

MIC TEST REPORT

(BT2.0+EDR)

Product: Portable Tablet Computer

Brand Name: Lenovo

Model Name: Lenovo TB-X605F

Applicant: Lenovo(Shanghai) Electronics Technology Co., Ltd.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RJ180530W011-1	Original release	Jul. 20, 2018

1 CERTIFICATION

PRODUCT: Portable Tablet Computer
BRAND NAME: Lenovo
MODEL NAME: Lenovo TB-X605F
APPLICANT: Lenovo(Shanghai) Electronics Technology Co., Ltd.
TESTED: Jun. 19, 2018 ~ Jul. 16, 2018
TEST SAMPLE: Production Unit
STANDARDS: ARIB STD-T66, MIC notice 88 Appendix 43


The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :


(Roger Li/ Engineer)

, **DATE:** Jul. 20, 2018

APPROVED BY :


(Sam Tung / Manager)

, **DATE:** Jul. 20, 2018



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report reference	Parameter	Test Results (NOTE)
GENERAL PROVISIONS				
C	3.2(4)	4.1	Frequency tolerance	C
D	3.2(7)	4.2/4.3	Occupied bandwidth	C
E	3.2(6)	4.4	Spurious emissions	C
TRANSMITTING EQUIPMENT				
F	--	4.5	Antenna power	C
--	--	--	SAR	NA
TRANSMITTING ANTENNA				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
RECEIVING EQUIPMENT				
H	3.3(1)	4.6	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2402 TO 2480MHz				
--	3.7 (1)	3.4	High Frequency/modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.5	Antenna power	C
--	3.6 (2)	4.5	Absolute gain of transmitting antenna	C
--	3.6 (2)	4.6	Angular width of principal radiation (AWPR)	C
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	4.2	Diffusion bandwidth	C
--	3.2 (9)	4.3	Spreading factor	C
--	3.2 (11)	4.7	Frequency retention time (FH employed)	C
--	3.4.1(1)	4.8	Interference Prevention Function	C
NOTE 1: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

ITEM	UNCERTAINTY
Occupied Bandwidth	261.60 Hz
Spurious emissions	2.52dB
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 ppm

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

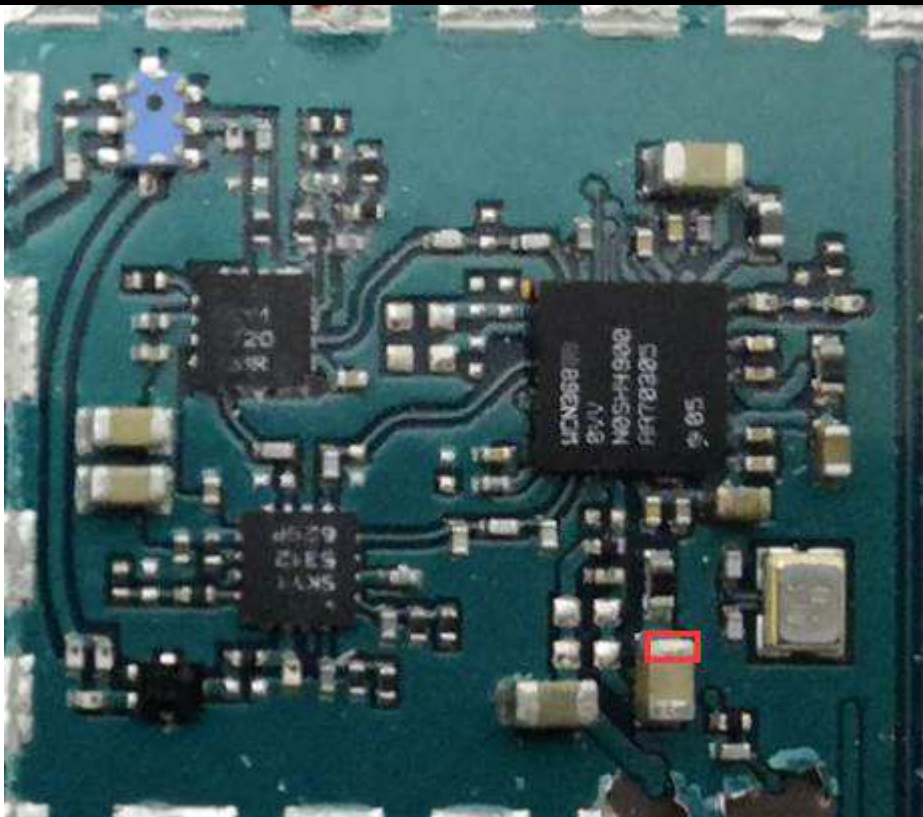
PRODUCT	Portable Tablet Computer
BRAND NAME	Lenovo
MODEL NAME	Lenovo TB-X605F
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, $\pi/4$ -DQPSK, 8DPSK
OPERATING FREQUENCY	2402MHz ~ 2480MHz
NUMBER OF CHANNEL	79
RATED RF OUTPUT POWER DENSITY	See note 2
CONDUCTED RF OUTPUT POWER DENSITY	See note 2
RADIATED RF OUTPUT POWER DENSITY	See note 2
ANTENNA TYPE	Monopole Antenna with -5dBi gain
HW-RELEASE NO.	Lenovo Tablet TB-X605F
SW-RELEASE NO.	TB-X605F_RF01_20180615

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The power table as below table:

	Rated output power density (mW/MHz)	Conducted RF output power density (mW/MHz)	Radiated RF output power density (mW/MHz)
Normal mode			
GFSK	0.20	0.140343	0.044380
8DPDK	0.10	0.088121	0.027866
$\pi/4$-DQPSK	0.10	0.086314	0.027295
Enable AFH function			
GFSK	0.60	0.550268	0.174010
8DPDK	0.35	0.338846	0.107153
$\pi/4$-DQPSK	0.35	0.337413	0.106699

3. When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.

Power supply voltage 3.85Vdc (Normal)	Power supply voltage 4.235Vdc (+10%)	Power supply voltage 3.465Vdc (-10%)
1.3	1.3	1.3
Measurement point		
		

4. There were Sample A, B, C, D, E and F for this project, the difference is as below:

SAMPLE	EUT CONFIGURATION INFORMATION
A	LCD Panel 2+Photo Camera 1+Photo Camera 3+CPU 1+EMMC1+DDR1+speaker 1+speaker 2+ motor2 + Main Broad 1+BT/WLAN Module+ Battery
B	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU 1+EMMC2+DDR2+speaker 1+speaker 2+motor1 + Main Broad 2 +BT/WLAN Module+ Battery
C	LCD Panel 2+Photo Camera 1+Photo Camera 3+CPU 1+EMMC3+DDR3+speaker 1+speaker 2 +motor2 + Main Broad 1+BT/WLAN Module+ Battery
D	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU 1+EMMC4+DDR4+speaker 1+speaker 2+motor1 + Main Broad 2+BT/WLAN Module+ Battery
E	LCD Panel 2+Photo Camera 1+Photo Camera 3+CPU 1+EMMC5+DDR5+speaker 1+speaker 2+motor2 + Main Broad 1+BT/WLAN Module+ Battery
F	LCD Panel 2+Photo Camera 2+Photo Camera 4+CPU 1+EMMC6+DDR6+speaker 1+speaker 2+motor1 + Main Broad 2+BT/WLAN Module+ Battery

5. For the test results, the EUT had been tested with normal supply voltage condition.

**List of Accessories:**

ACCESSORIES	BRAND	MODEL	SPECIFICATION
AC Adapter 1	Salom	SC-41	I/P:100-240Vac, 300mA O/P: 5Vdc, 2000mA
AC Adapter 2	AcBel	SC-41	I/P:100-240Vac, 30mA O/P: 5Vdc, 2000mA
Battery	Lenovo	L18D1P32	Rating: 3.85Vdc, 4850mAh
USB Cable 1(White)	LiQi	LQ-02300039	1.0m shielded cable w/o core
USB Cable 2(Black)	LiQi	LQ-02300040	1.0m shielded cable w/o core
LCD Panel1 (Black)	BOE	TV101WUM-LL2	10.1 "
LCD Panel2(White)	BOE	TV101WUM-LL3	10.1 "
EMMC1+DDR1	SAMSUNG	KMQE60013M-B318(2+16)	16G
EMMC2+DDR2	HYNIX	H9TQ17ABJTCCUR-KUM(2+16)	16G
EMMC3+DDR3	SAMSUNG	KMGD6001BM-B421(3+32)	32G
EMMC4+DDR4	HYNIX	H9TQ27ADFTMCUR-KUM(3+32)	32G
EMMC5+DDR5	SAMSUNG	KMRH60014A-B614(4+64)	64G
EMMC6+DDR6	HYNIX	H9TQ52ACLTMCUR-KUM(4+64)	64G
Speaker 1	Keysound	QM171219AW84	-
Speaker 2	Keysound	QM171219AW85	-
motor1	AWA	YK2455R	-
Motor2	Baolong	BLX-431320S	-
Photo Camera 1	Lcetron	LE5143AM	5M AF
Photo Camera 2	Holitek	MF81Q	5M AF
Photo Camera 3	Lcetron	ZRT2509V-P102F	2M FF
Photo Camera 4	Holitech	HSU1005	2M FF
CPU	Qualcomm	SDA450	792nsp
Main Broad 1	huashen	W93M71B2-3-03	-
Main Broad 2	yilianda	W93M71B2-3-05	-
BT/WLAN Module	Qualcomm	WCN3680B	-

Remark:

1. USB cabel 1 and USB cable 2 is identical, difference models are for color distinguished. Therefore, only USB cable 1 is as a representative for final test.
2. LCD Panel 1 and LCD Panel 2 is identical, difference models are for color distinguished. Therefore, only LCD Panel 2 is as a representative for final test.



3.2 DESCRIPTION OF TEST CHANNELS

Seventy-nine channels are provided for Bluetooth.

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

SiX modes are provided:

Mode	Conditions
Mode A	GFSK
Mode B	8DPDK
Mode C	$\pi/4$ -DQPSK
Mode D	Enable AFH GFSK
Mode E	Enable AFH 8DPDK
Mode F	Enable AFH $\pi/4$ -DQPSK

Note:

1. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report except the RF output power test was shown all conditions.
2. For AFH function only tested occupied bandwidth, spreading bandwidth, Antenna power and dwell time.
3. By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

GFSK		8DPSK		$\pi/4$-DQPSK	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
0	Default	0	Default	0	Default
39	Default	39	Default	39	Default
78	Default	78	Default	78	Default

3.3 TEST CONDITIONS

Test conditions	Voltage (V DC)
V_{normal}	3.85
V_{max}	4.235
V_{min}	3.465

3.4 ASSEMBLY

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, Also it won't be easy to be opened. Frequency Band, channels and Modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

3.5 ANTENNA SPECIFICATIONS

3.5.1 ANTENNA GAIN

Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
Monopole	N/A	-5

3.5.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

4 TEST TYPES AND RESULTS

4.1 FREQUENCY TOLERANCE MEASUREMENT

4.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

4.1.2 TEST RESULTS – MODE A, B, C

ENVIRONMENTAL CONDITIONS		23 deg.C, 58 % RH	
Channel	Frequency (MHz)	Voltage _{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2401.998240	-0.733
39	2441	2440.997860	-0.877
78	2480	2479.997620	-0.960

4.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

4.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

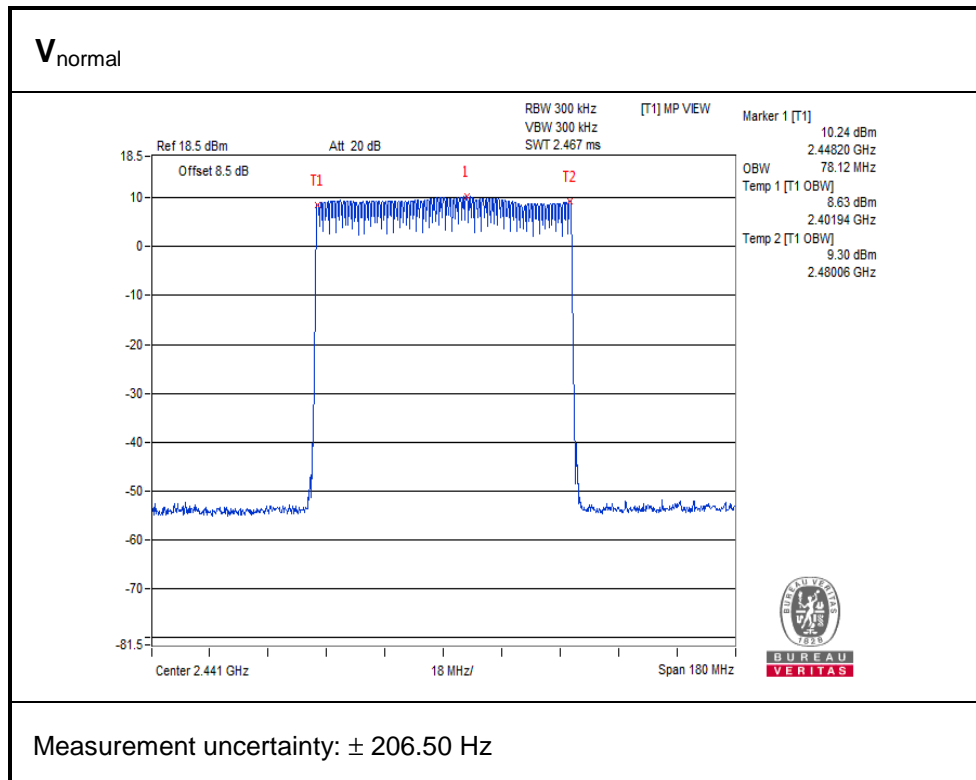
Occupied bandwidth shall be 83.5MHz or less.

4.2.2 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage _{normal}
	Occupied bandwidth (MHz)
	78.12
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.

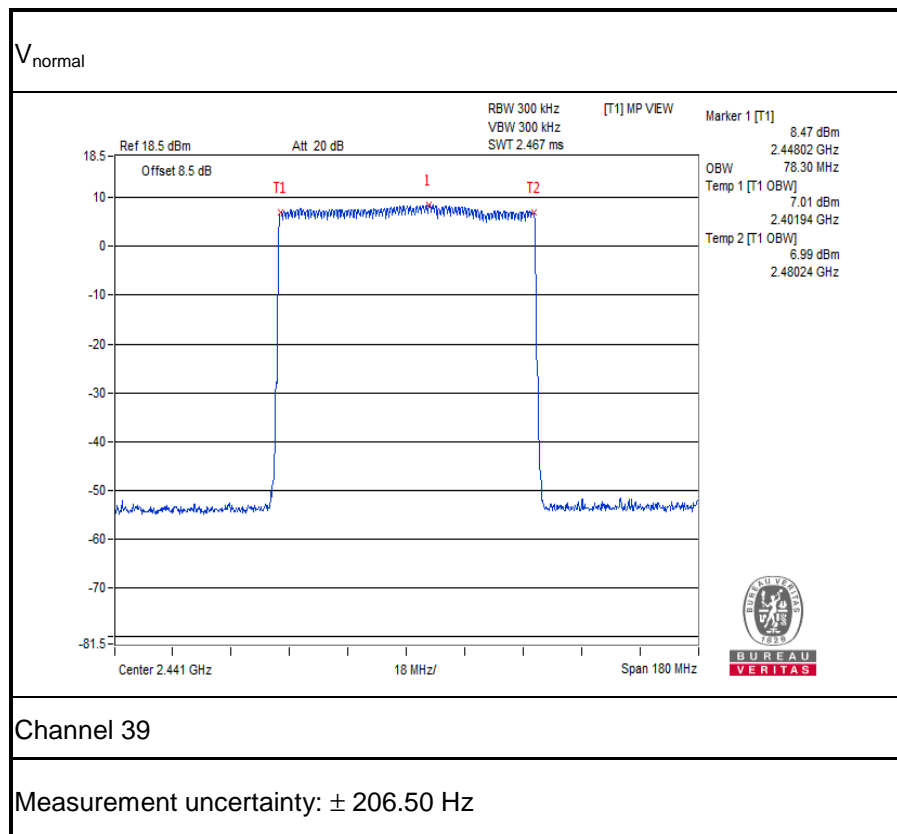


4.2.3 TEST RESULTS – MODE B

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage _{normal}
	Occupied bandwidth (MHz)
	78.30
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.

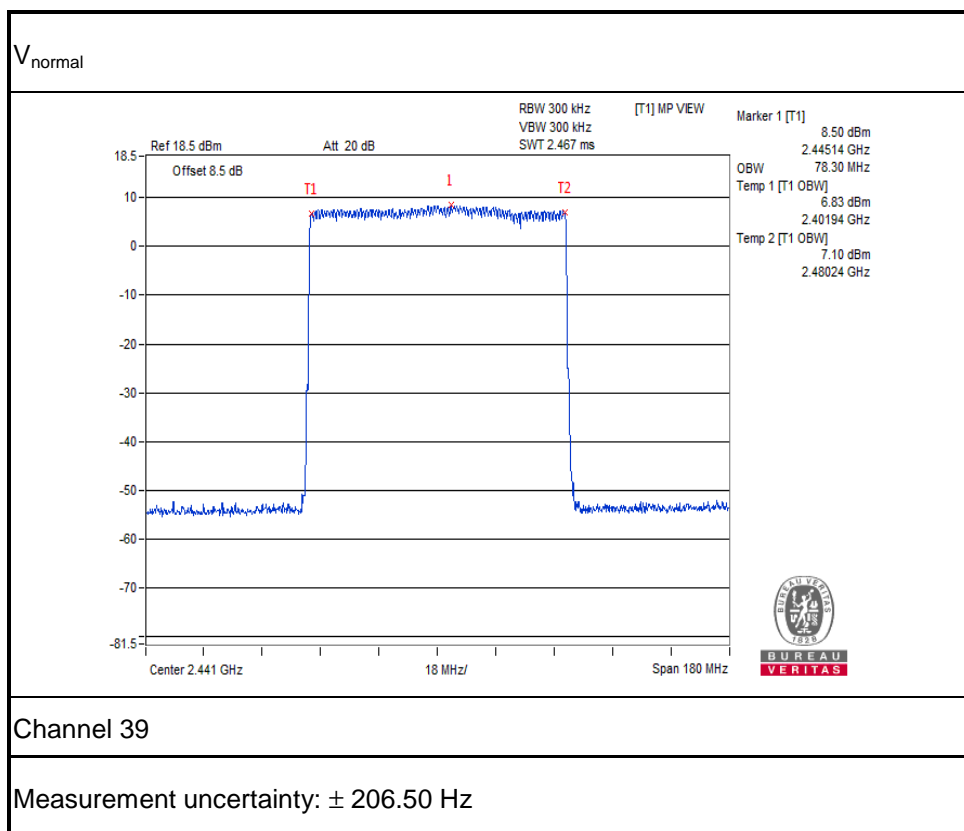


4.2.4 TEST RESULTS – MODE C

For $\pi/4$ -DQPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage _{normal}
	Occupied bandwidth (MHz)
	78.30
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.

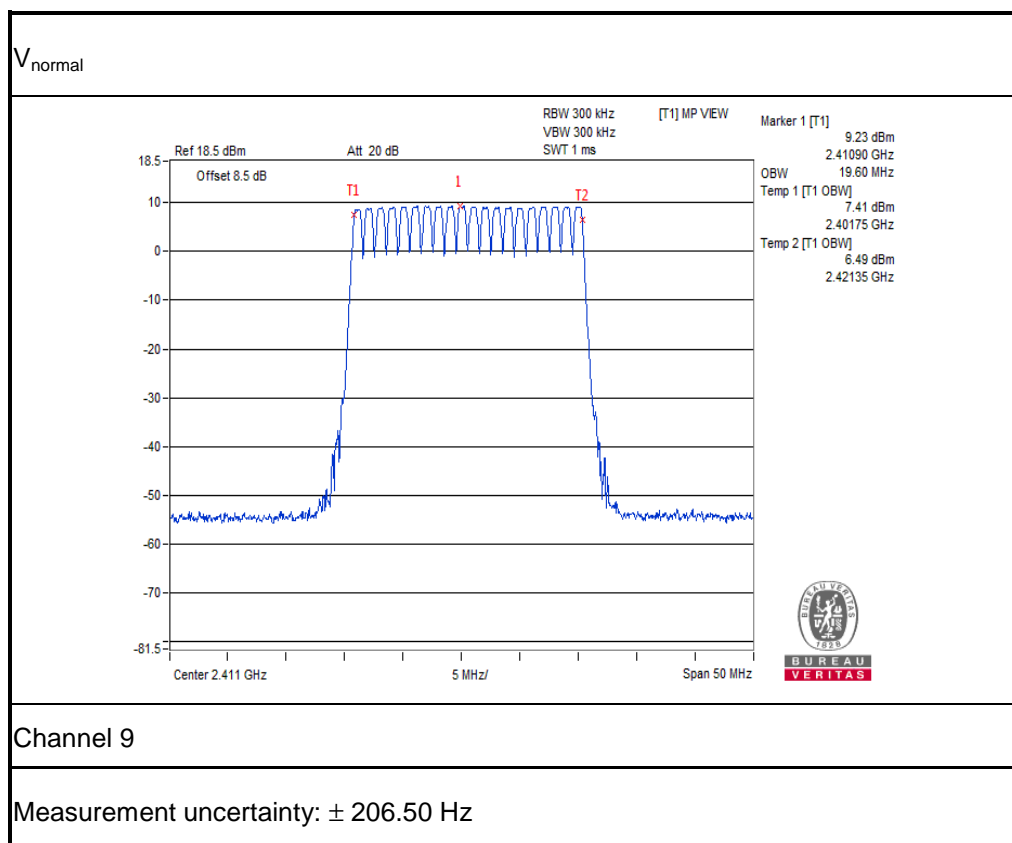


4.2.5 TEST RESULTS – MODE D

For GFSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage normal
	Occupied bandwidth (MHz)
	19.60
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.



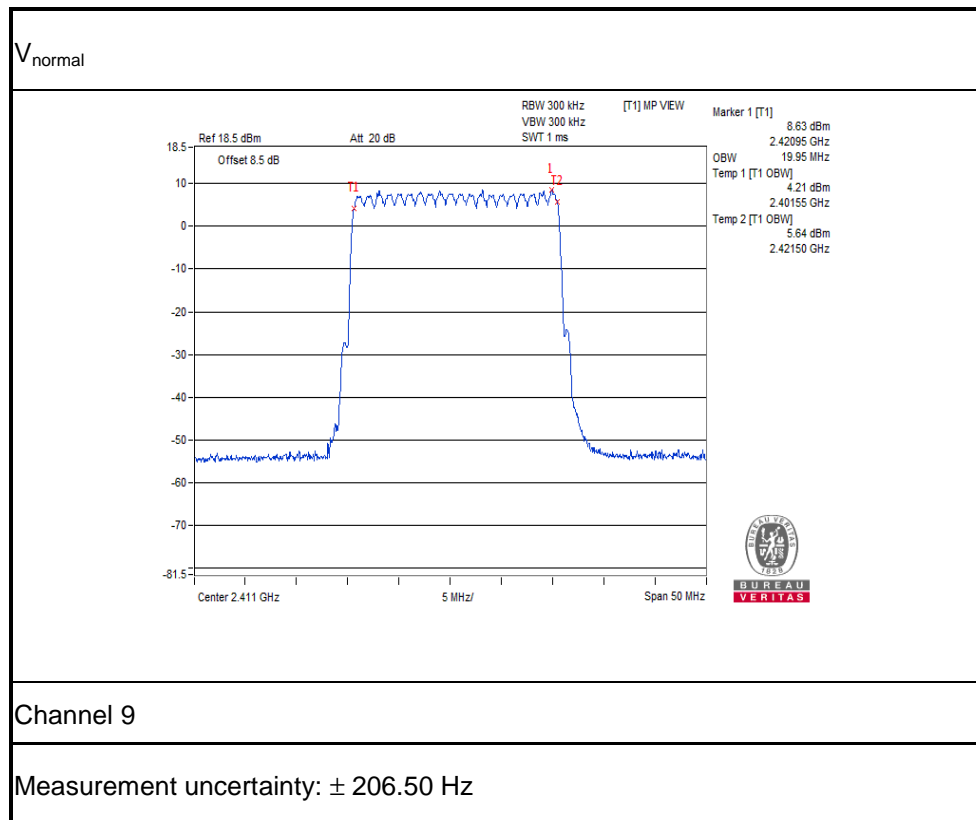


4.2.6 TEST RESULTS – MODE E

For 8DPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage normal
	Occupied bandwidth (MHz)
	19.95
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.



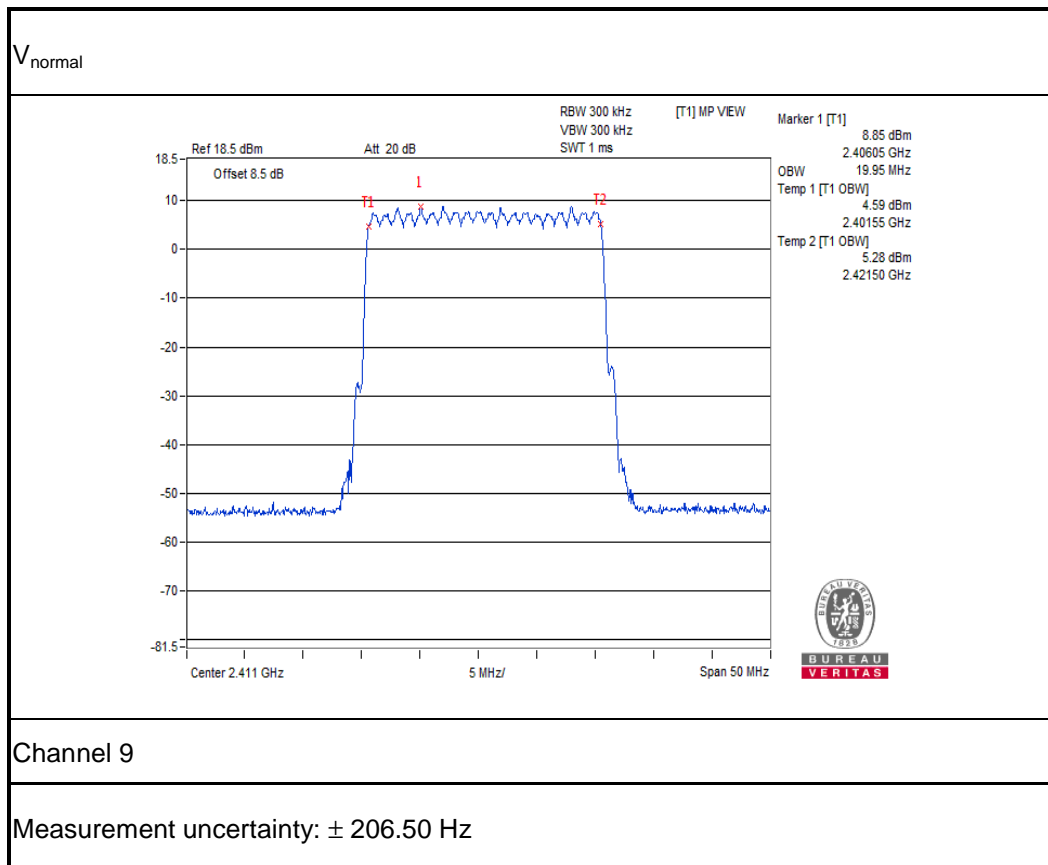


4.2.7 TEST RESULTS – MODE F

For $\pi/4$ -DQPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH
HOPPING MODE	Voltage normal
	Occupied bandwidth (MHz)
	19.95
Measurement uncertainty	± 206.50 Hz

NOTE: For the test plots please refer to the below.





4.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)

4.3.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

ITEM	LIMIT	REMARK
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	-
SPREADING FACTOR	≥ 5	Operating frequency 2400 to 2483MHz



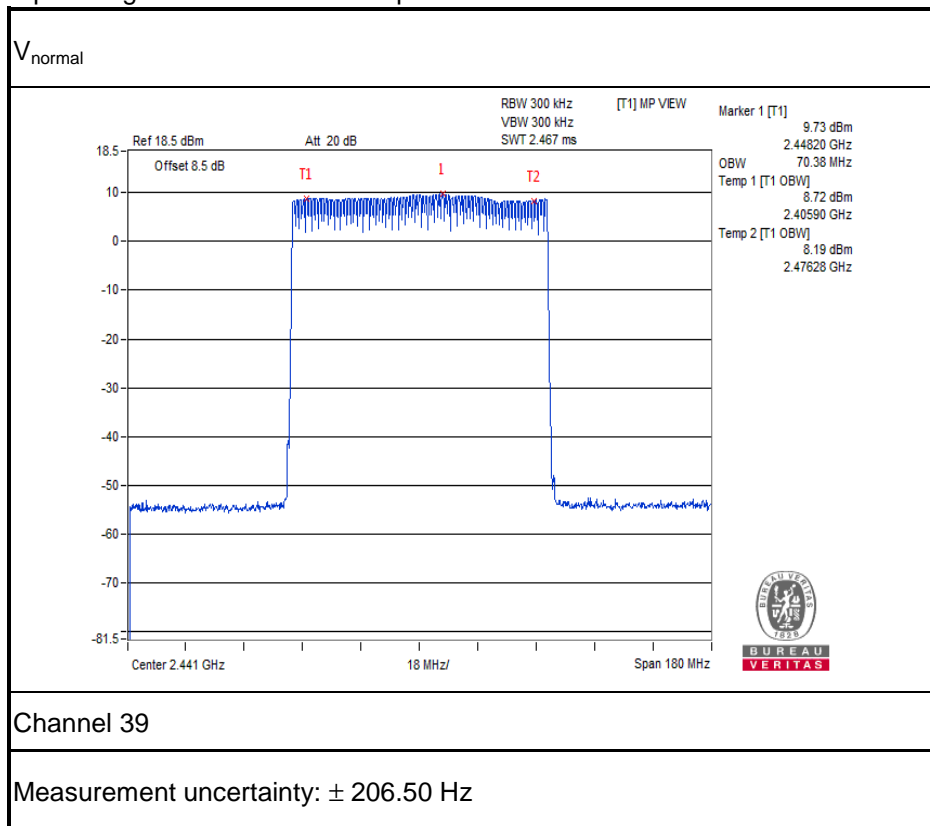
4.3.2 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	70.38	70.380
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.





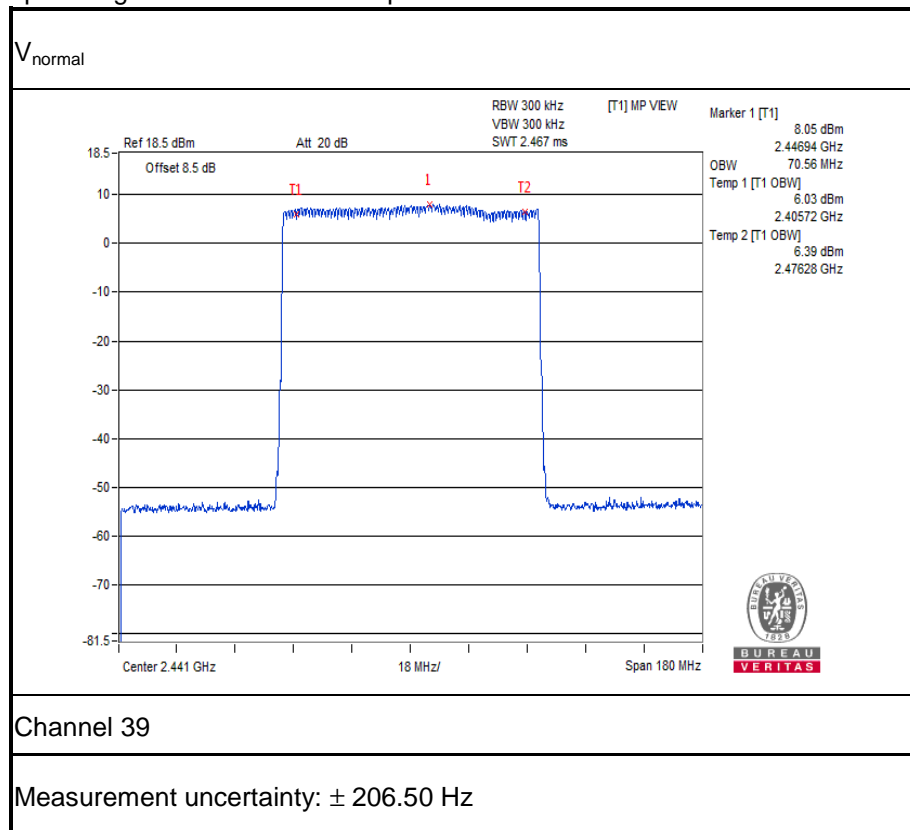
4.3.3 TEST RESULTS – MODE B

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	70.56	70.560
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.





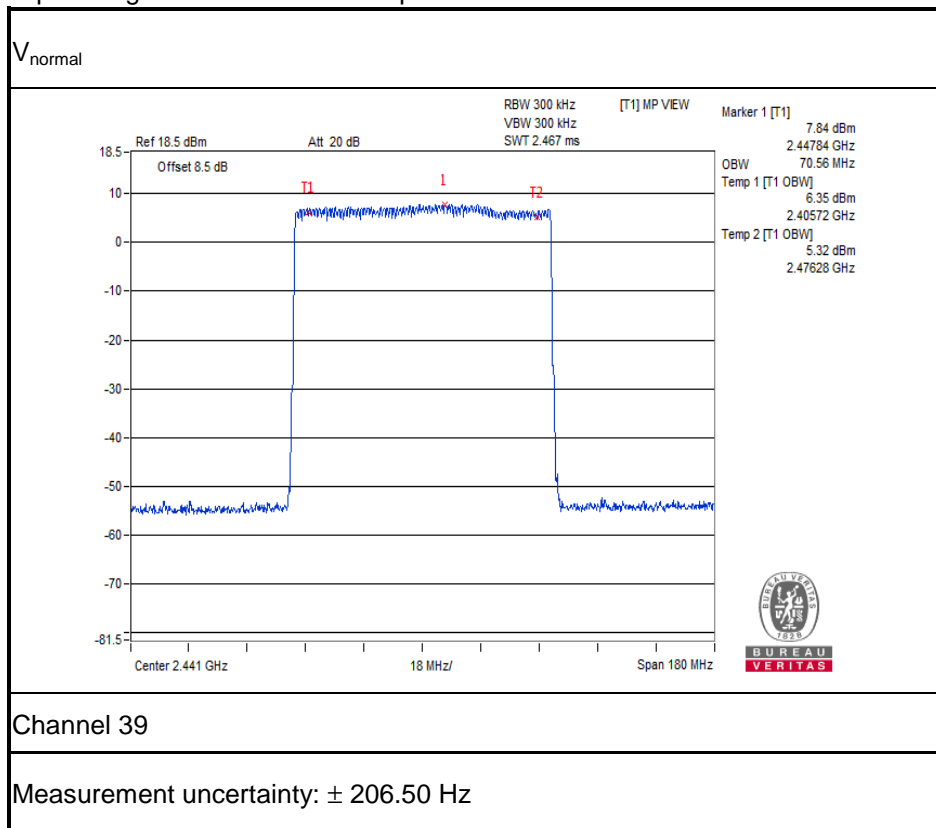
4.3.4 TEST RESULTS – MODE C

For $\pi/4$ -DQPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	70.56	70.560
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.





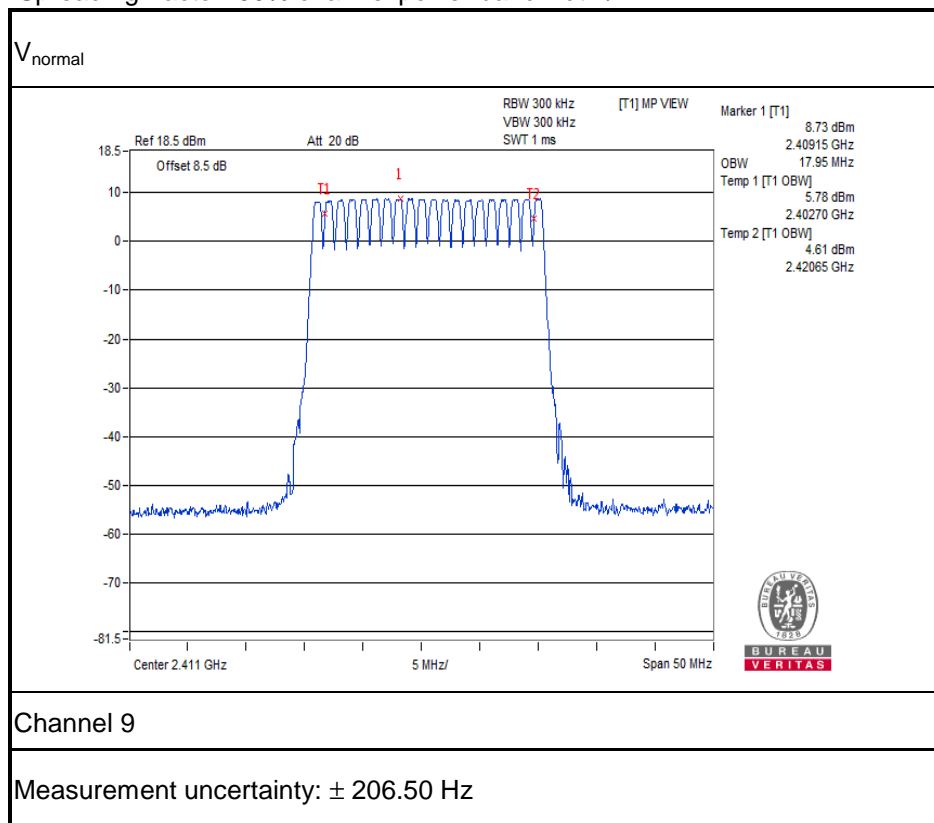
4.3.5 TEST RESULTS – MODE D

For GFSK< Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	17.95	17.950
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.





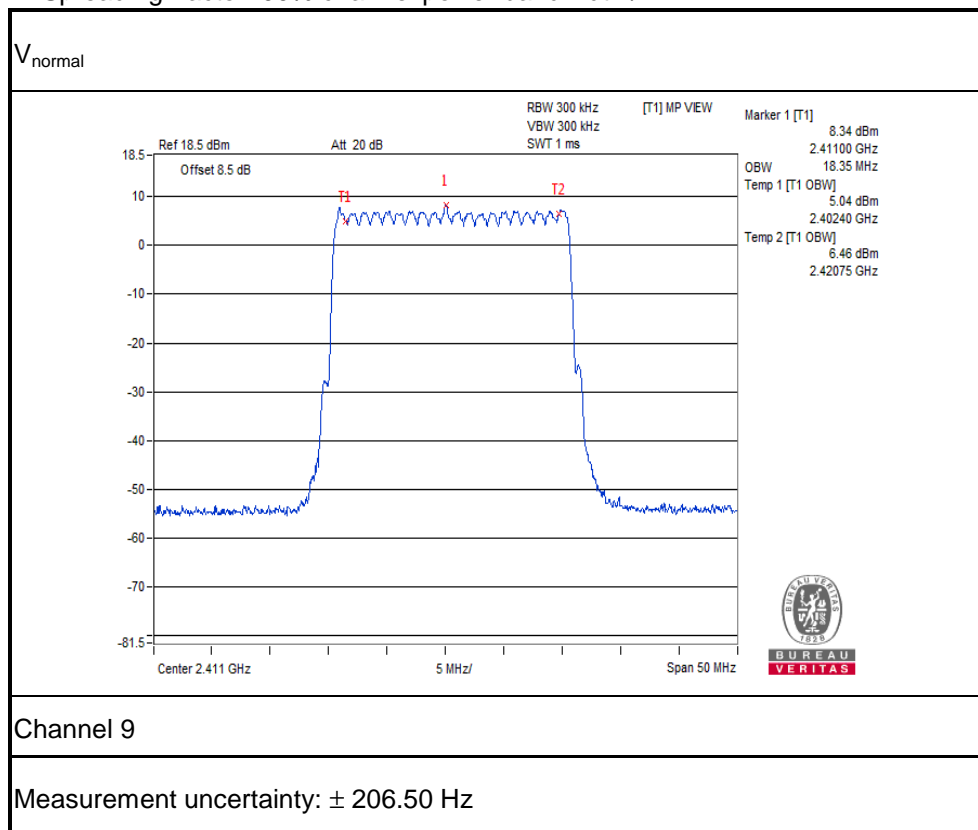
4.3.6 TEST RESULTS – MODE E

For 8DPSK< Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	18.35	18.350
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.





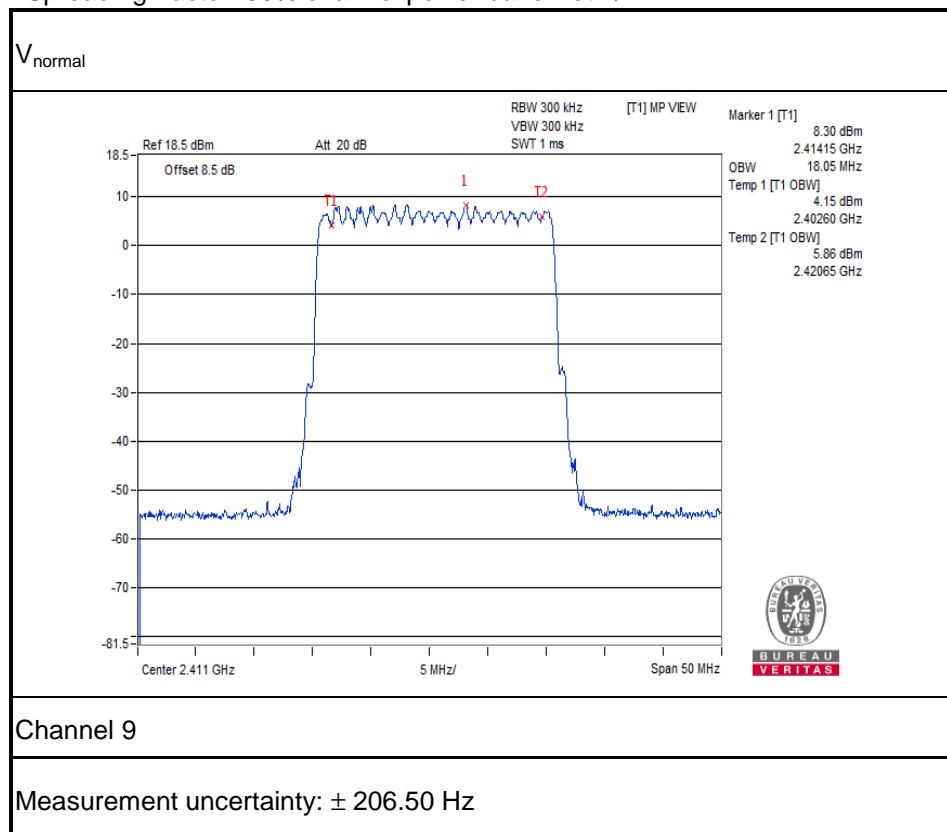
4.3.7 TEST RESULTS – MODE F

For $\pi/4$ -DQPSK < Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH	
HOPPING MODE	Voltage _{normal}	
	Occupied bandwidth (MHz)	Spreading factor
	18.05	18.050
Measurement uncertainty	± 206.50 Hz	

NOTE: For the test plots please refer to the below.

Spreading Factor: 90% channel power bandwidth / 1.



4.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

4.4.1 LIMITS OF SPURIOUS EMISSIONS

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW}/100\text{kHz}$
1000.0MHz to 2387MHz	$\leq 2.5\text{uW}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\text{uW}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\text{uW}/\text{MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\text{uW}/\text{MHz}$

4.4.2 SUMMARY OF TEST RESULTS – MODE A, B, C

GFSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	30.0MHz to 1000.0MHz	740.283	0.002347uW	488.810	0.002163uW	0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2269.452	0.026734uW	1752.448	0.109413uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2400.000	1.980271uW	2388.011	0.014807uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2484.501	0.019684uW	2488.213	0.016779uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6095.259	0.036238uW	5059.897	0.031335uW	2.5uW/MHz	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	30.0MHz to 1000.0MHz	814.730		0.002318uW		0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2224.374		0.025599uW		2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2397.683		0.017151uW		25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.542		0.072647uW		25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	5690.117		0.03607uW		2.5uW/MHz	PASS

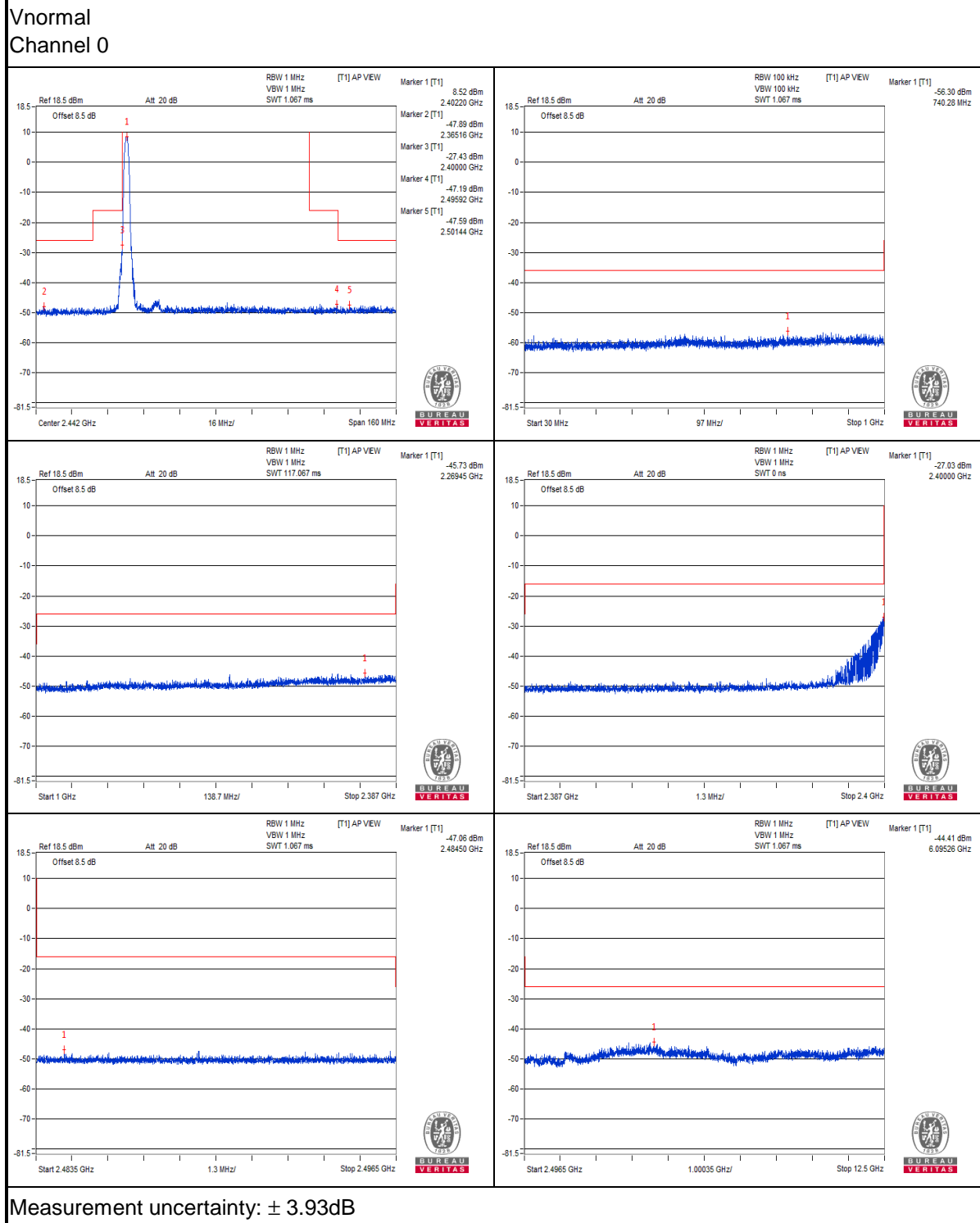
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
 2. The spectrum plots are attached on the following pages.
 3. The limit 2.5uW/MHz of frequency 30MHz to 1000MHz after conversion is 0.25uW/100kHz.



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GFSK

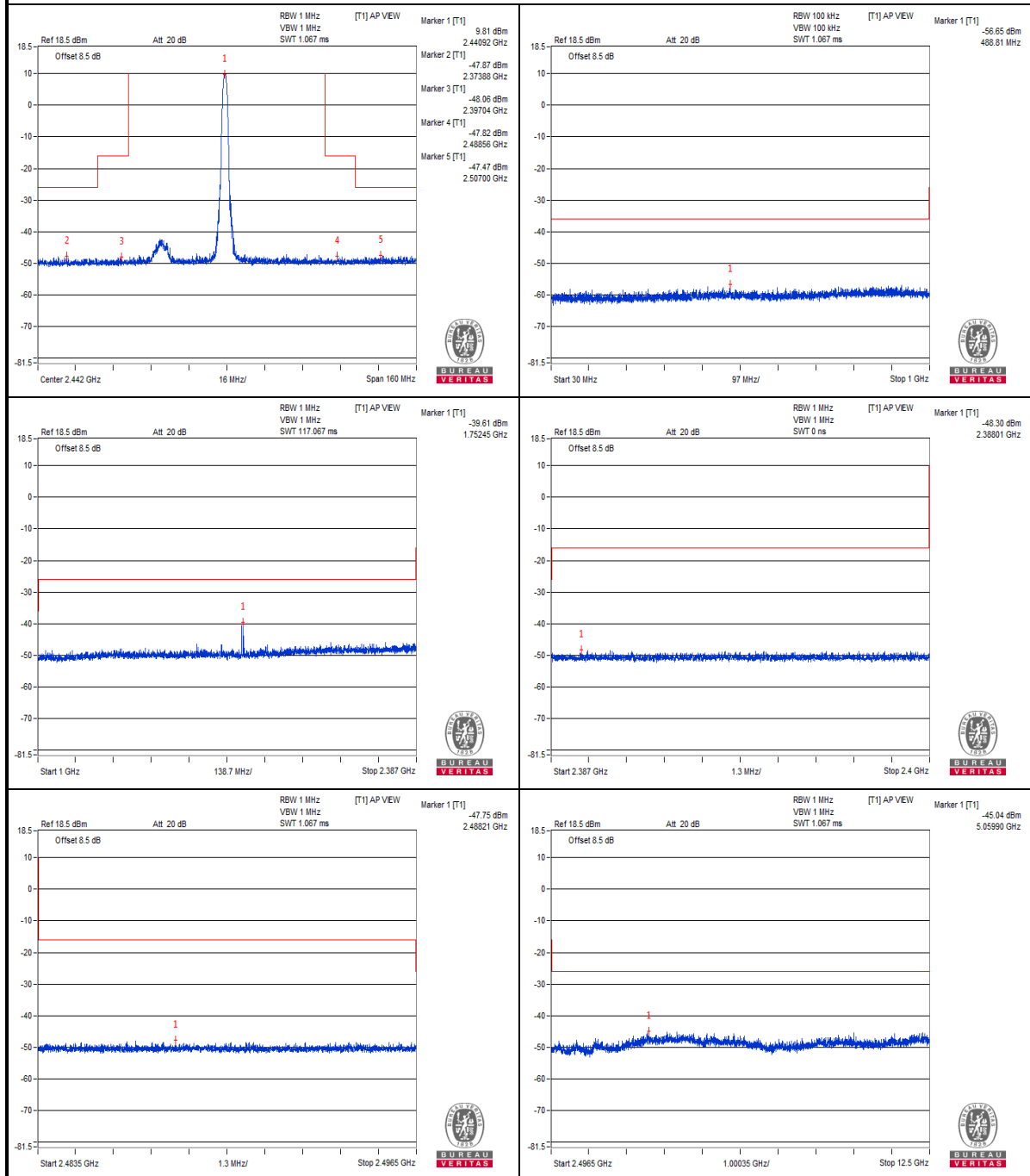




BUREAU
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Test Report No.: RJ180530W011-1

Vnormal Channel 39



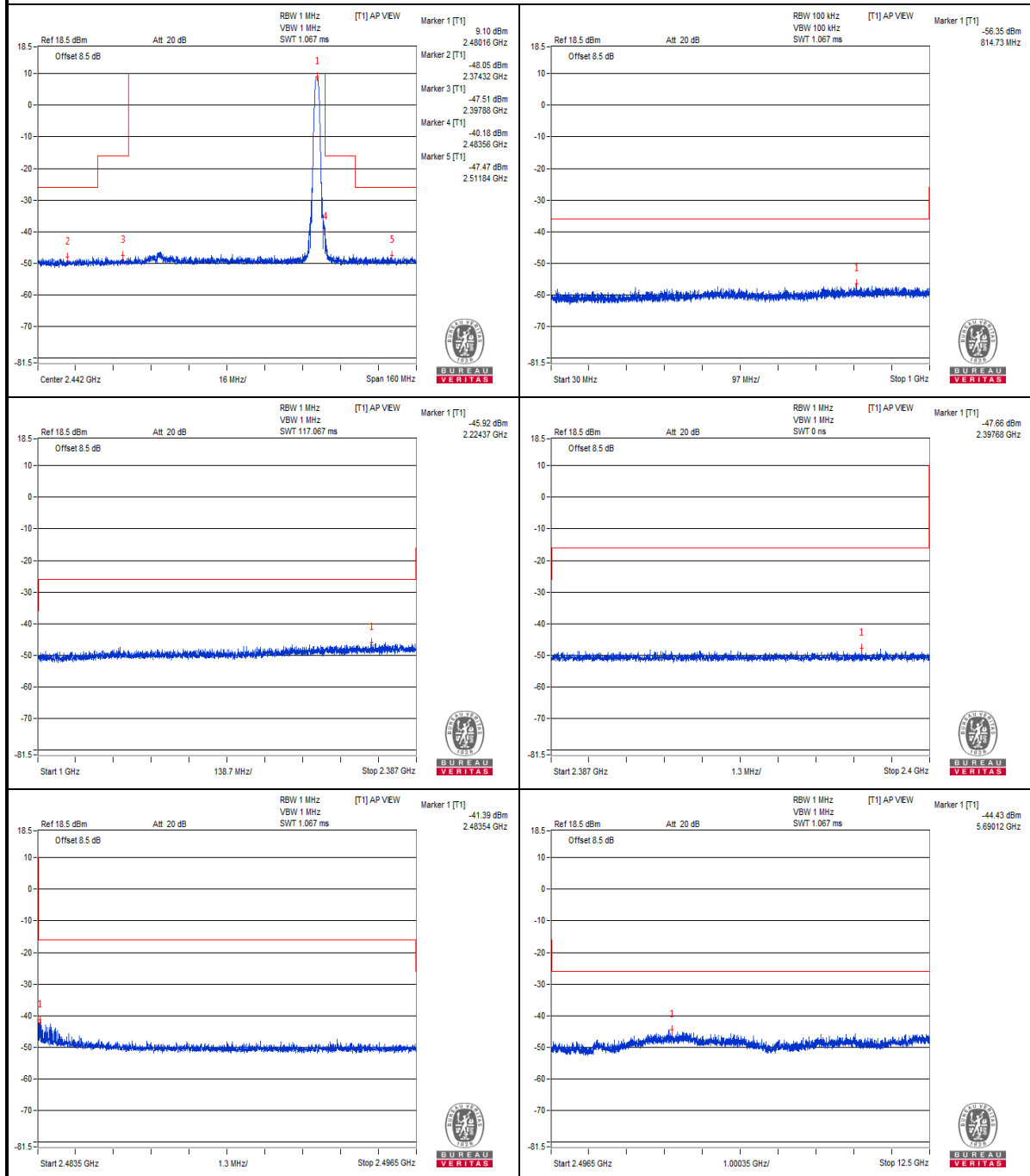
Measurement uncertainty: $\pm 3.93\text{dB}$



BUREAU
VERITAS

Test Report No.: RJ180530W011-1

Vnormal Channel 78



Measurement uncertainty: $\pm 3.93\text{dB}$

8DPSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	30.0MHz to 1000.0MHz	766.473	0.00236uW	900.818	0.002439uW	0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2321.118	0.029086uW	2319.037	0.026048uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2400.000	4.17367uW	2396.500	0.01702uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.361	0.016107uW	2488.515	0.015984uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	5937.704	0.034016uW	5637.599	0.030491uW	2.5uW/MHz	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	30.0MHz to 1000.0MHz	948.833		0.002242uW		0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2377.985		0.031055uW		2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2393.139		0.015237uW		25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.598		0.048132uW		25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6095.259		0.039622uW		2.5uW/MHz	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
 2. The spectrum plots are attached on the following pages.
 3. The limit 2.5uW/MHz of frequency 30MHz to 1000MHz after conversion is 0.25uW/100kHz.

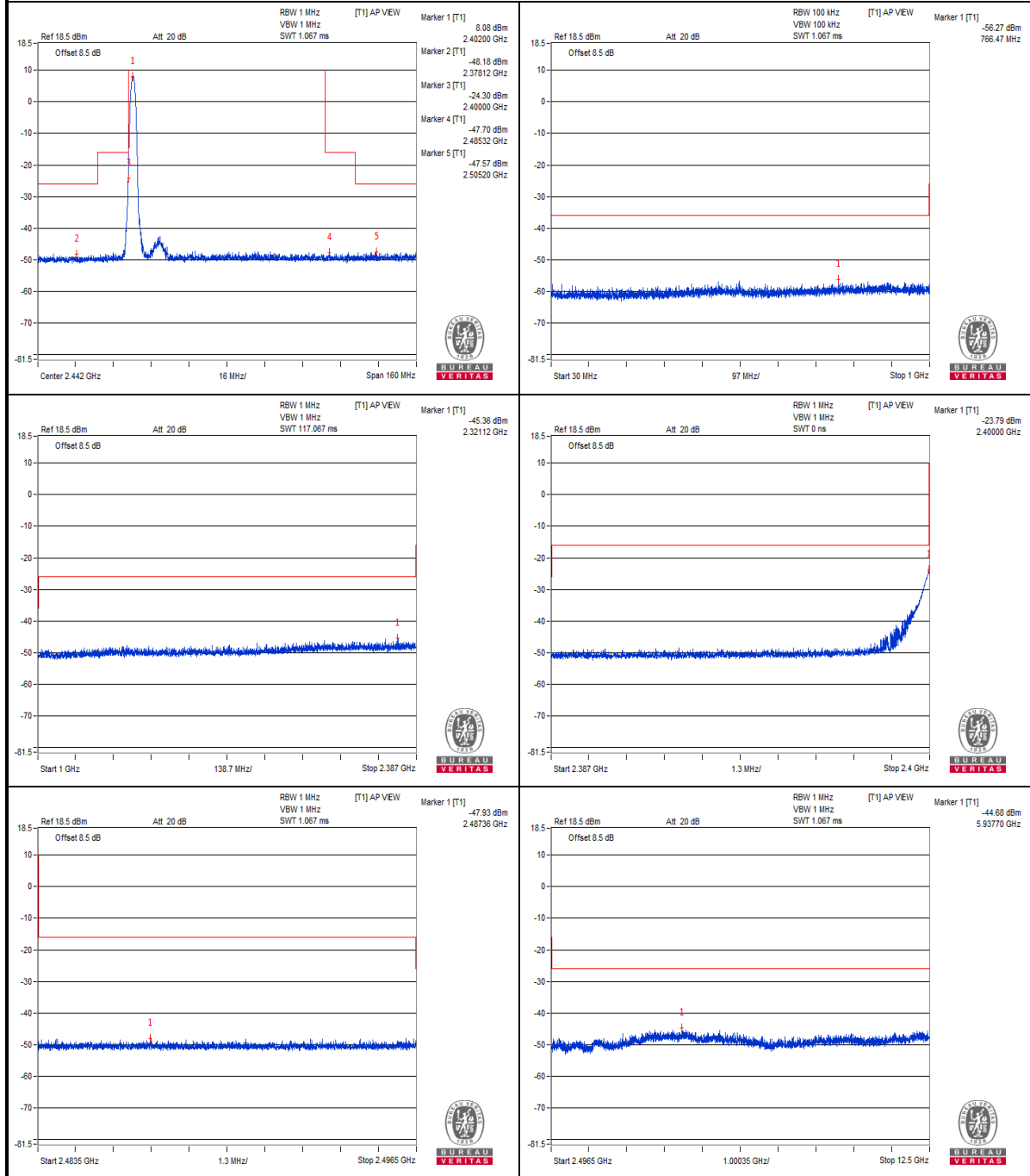


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VERITAS

Test Report No.: RJ180530W011-1

8DPSK

Vnormal
Channel 0



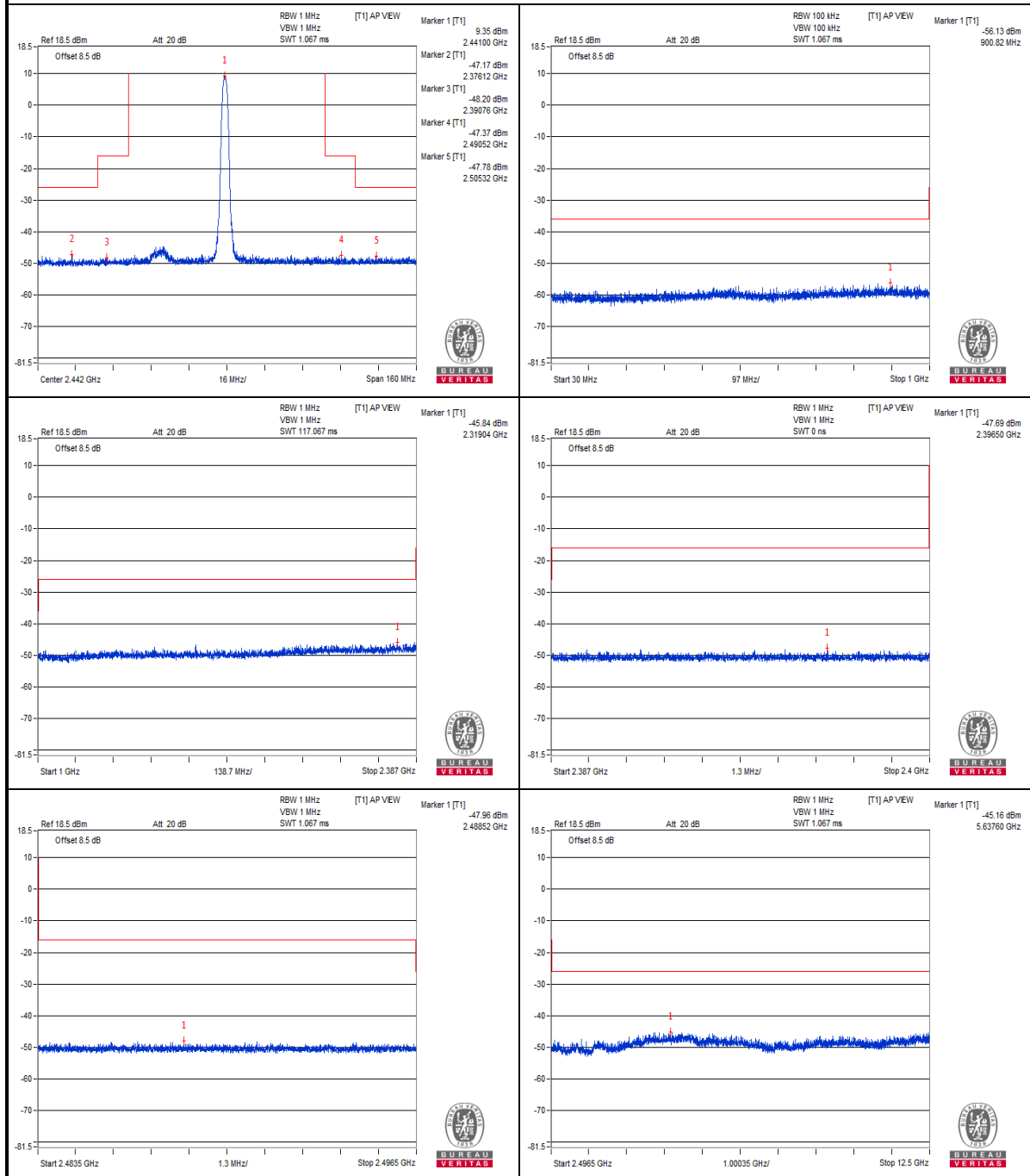
Measurement uncertainty: $\pm 3.93\text{dB}$



BUREAU
VERITAS

Test Report No.: RJ180530W011-1

Vnormal Channel 39



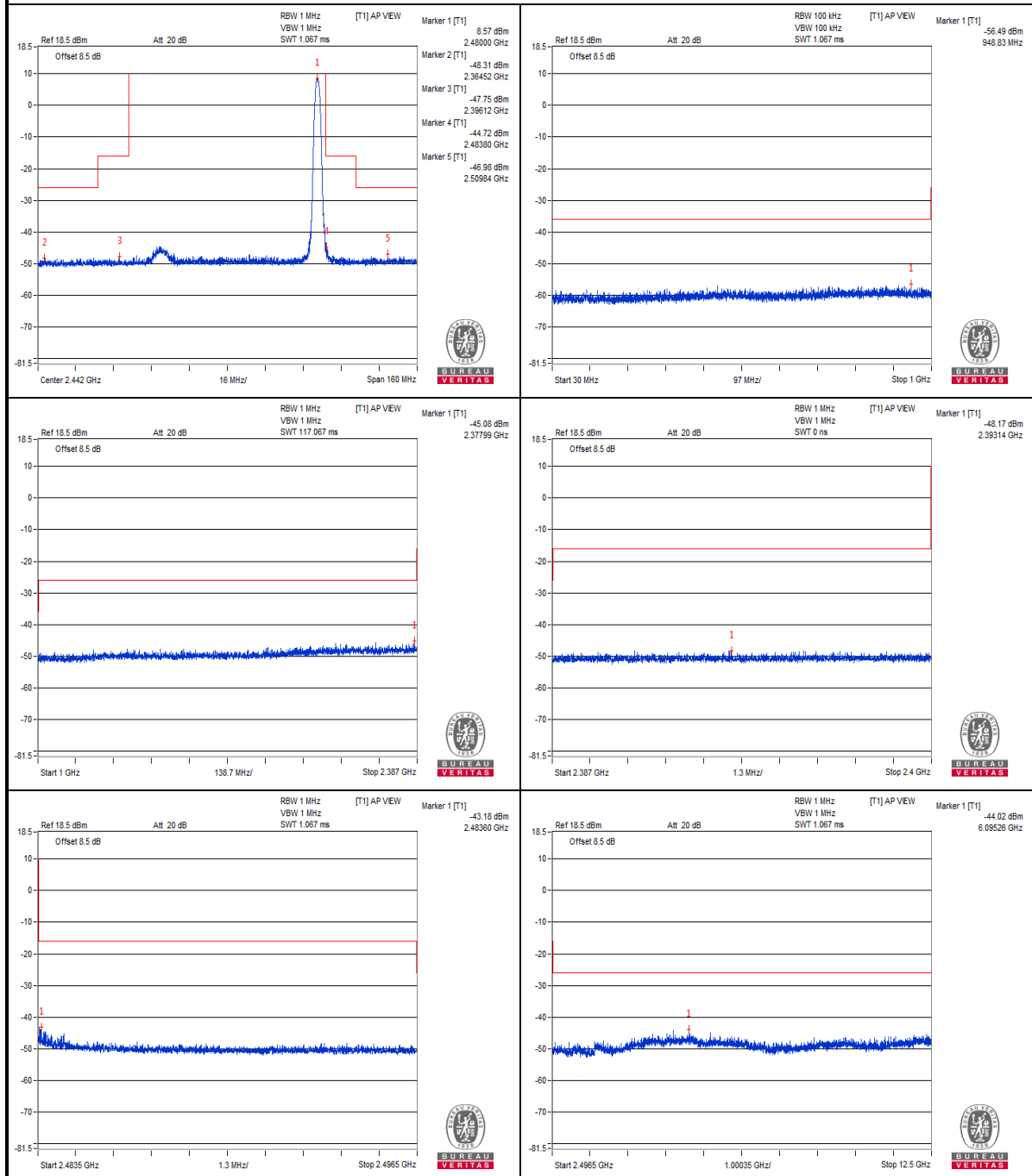
Measurement uncertainty: $\pm 3.93\text{dB}$



BUREAU
VERITAS

Test Report No.: RJ180530W011-1

Vnormal Channel 78



Measurement uncertainty: $\pm 3.93\text{dB}$

 $\pi/4$ -DQPSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	30.0MHz to 1000.0MHz	923.128	0.00203uW	896.453	0.002573uW	0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2217.093	0.028158uW	2307.941	0.026191uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2400.000	4.171687uW	2394.690	0.015214uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2490.575	0.015992uW	2487.527	0.017589uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	5227.456	0.03257uW	7323.189	0.034655uW	2.5uW/MHz	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	30.0MHz to 1000.0MHz	995.878		0.002417uW		0.25uW/100kHz	PASS
	1000.0MHz to 2387MHz	2202.876		0.027416uW		2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2398.892		0.01561uW		25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.520		0.044511uW		25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	7310.684		0.036156uW		2.5uW/MHz	PASS

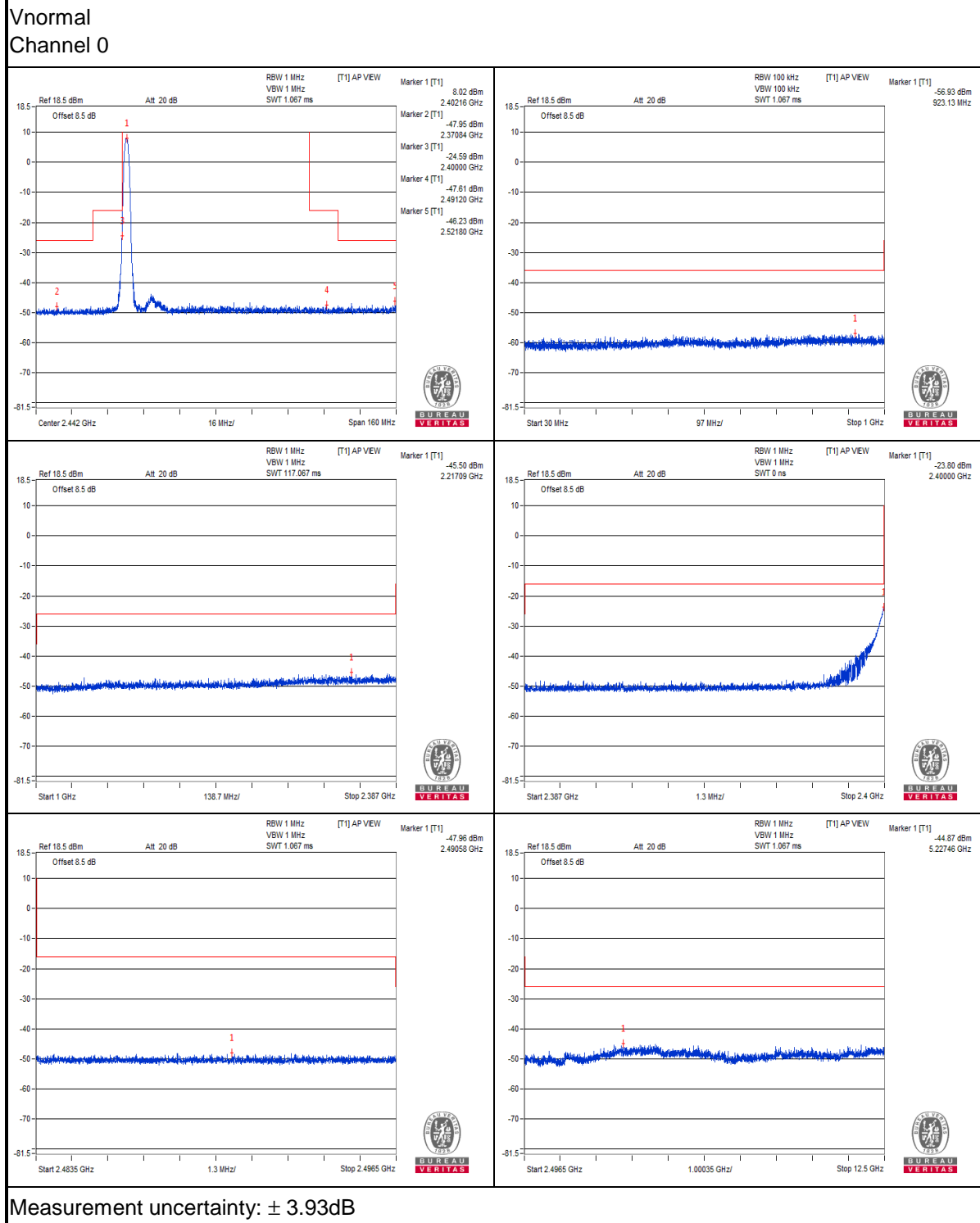
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
 2. The spectrum plots are attached on the following pages.
 3. The limit 2.5uW/MHz of frequency 30MHz to 1000MHz after conversion is 0.25uW/100kHz.



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$\pi/4$ -DQPSK

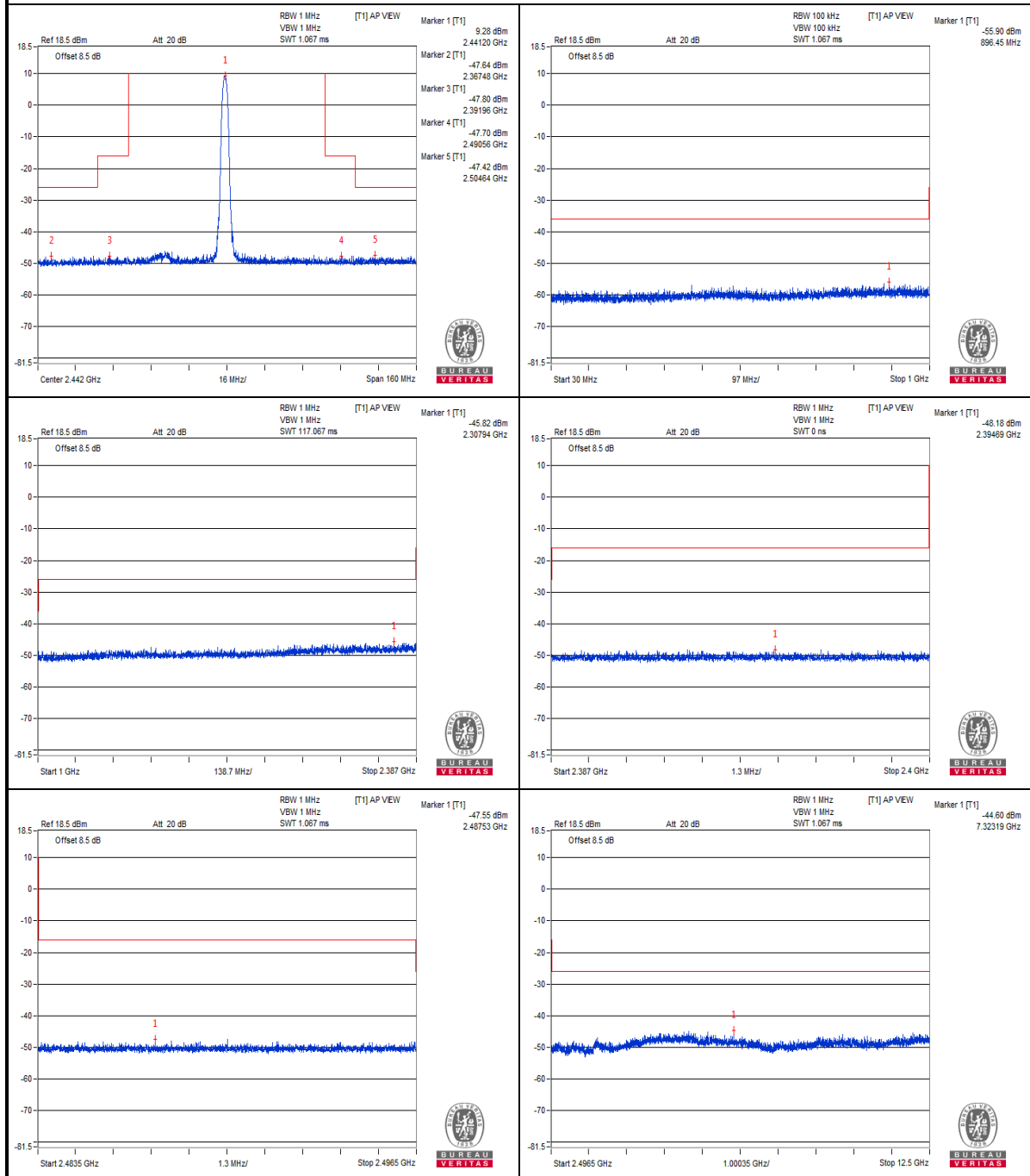




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Test Report No.: RJ180530W011-1

Vnormal Channel 39



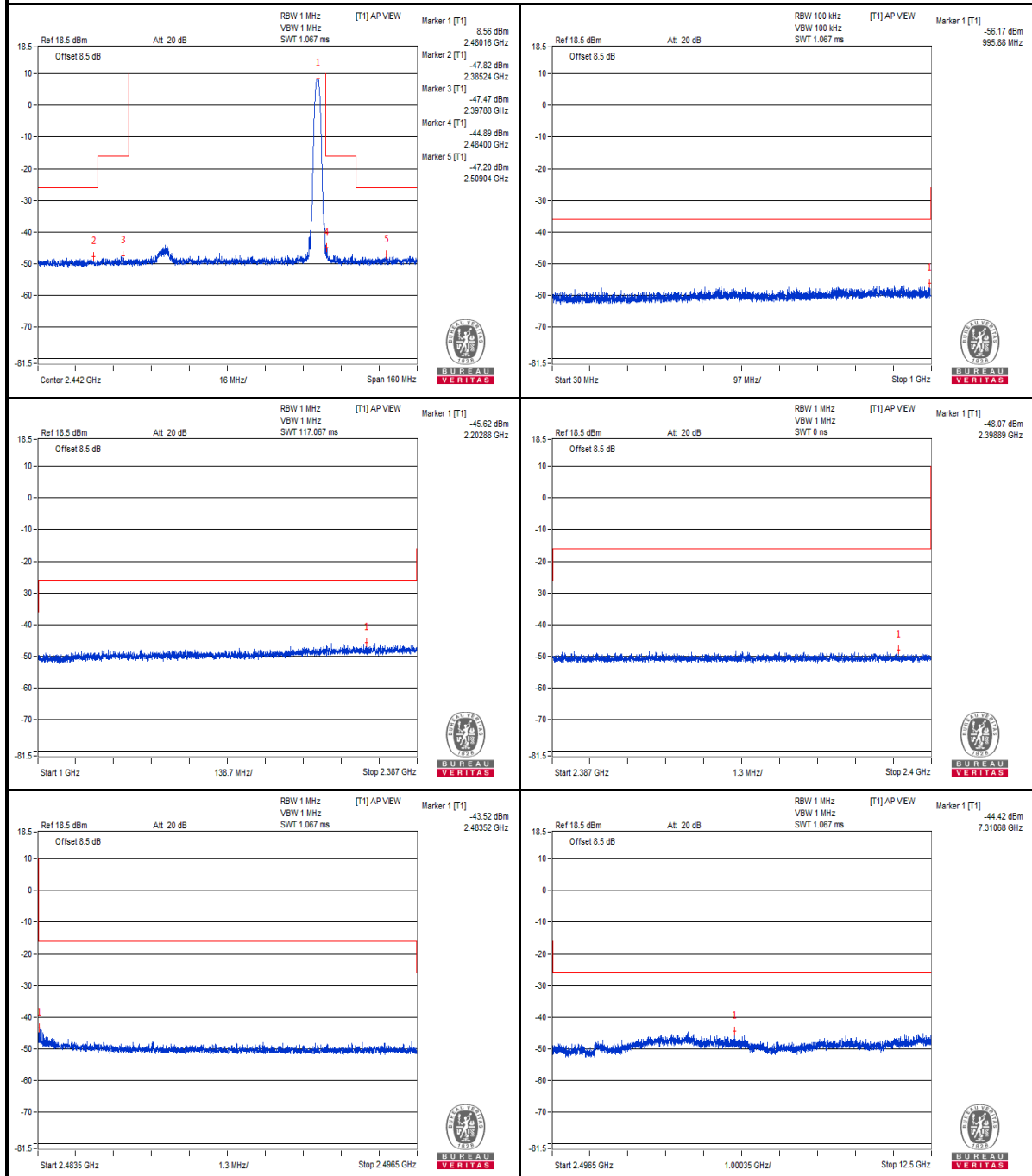
Measurement uncertainty: $\pm 3.93\text{dB}$



BUREAU
VERITAS

Test Report No.: RJ180530W011-1

Vnormal Channel 78



Measurement uncertainty: $\pm 3.93\text{dB}$



4.5 ANTENNA POWER MEASUREMENT

4.5.1 LIMITS OF ANTENNA POWER

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
FH	2,400 – 2,4835 MHz	3mW/MHz	6.91 dBm/MHz (4.91 mW/MHz)	16.91 dBm/MHz (49.10 mW/MHz)

Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

4.5.2 CONDUCTED OUTPUT POWER

GFSK

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
TEST CONDITION	Conducted output power (dBm)		
	CH 0	CH 39	CH 78
Voltage normal	7.38	8.8	7.82

8DPSK

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
TEST CONDITION	Conducted output power (dBm)		
	CH 0	CH 39	CH 78
Voltage normal	5.53	6.79	6.04

$\pi/4$ -DQPSK

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH		
TEST CONDITION	Conducted output power (dBm)		
	CH 0	CH 39	CH 78
Voltage normal	5.32	6.7	5.86

4.5.3 TEST RESULTS – MODE A

For GFSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.101159	0.140343	0.112040	3
Rated power	0.20			
Tolerance of antenna power	0.04 ~ 0.24			

Note: 1. Conducted of output power density=Conducted output power/Spread-Spectrum
 2. Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.031989	0.044380	0.035430	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

4.5.4 TEST RESULTS – MODE B

For 8DPSK:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.065958	0.088121	0.074113	3
Rated power	0.10			
Tolerance of antenna power	0.02 ~ 0.12			

Note: 1. Conducted of output power density=Conducted output power/Spread-Spectrum
 2. Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.020858	0.027866	0.023437	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

**4.5.5 TEST RESULTS – MODE C****For $\pi/4$ -DQPSK:**

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.062791	0.086314	0.071175	3
Rated power	0.10			
Tolerance of antenna power	0.02 ~ 0.12			

Note: 1. Conducted of output power density=Conducted output power/Spread-Spectrum

2. Tolerance of antenna power shall be +20% (upper value) and –80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.019856	0.027295	0.022508	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

4.5.6 TEST RESULTS – MODE D

For GFSK <Enable AFH function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.397467	0.550268	0.438135	3
Rated power	0.60			
Tolerance of antenna power	0.12 ~ 0.72			

Note: 1. Conducted of output power density = Conducted output power / Spread-Spectrum
 2. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.125690	0.174010	0.138550	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

4.5.7 TEST RESULTS – MODE E

For 8DPSK<Enable AFH Function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.252963	0.338846	0.285415	3
Rated power	0.35			
Tolerance of antenna power	0.07 ~ 0.42			

Note: 1. Conducted of output power density = Conducted output power / Spread-Spectrum
 2. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.079994	0.107153	0.090256	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

4.5.8 TEST RESULTS – MODE F

For $\pi/4$ -DQPSK<Enable AFH Function>:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Conducted RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.245835	0.337413	0.277613	3
Rated power	0.35			
Tolerance of antenna power	0.07 ~ 0.42			

Note: 1. Conducted of output power density = Conducted output power / Spread-Spectrum
 2. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

Monopole Antenna with -5dBi gain:

ENVIRONMENTAL CONDITIONS	23 deg.C, 58 % RH			
TEST CONDITION	Radiated RF output power density (mW/MHz)			
	CH 0 2402 MHz	CH 39 2441 MHz	CH 78 2480 MHz	Max. Limit (mW/MHz)
Voltage normal	0.077740	0.106699	0.087789	4.91

NOTE: The value of radiated RF output densities are "calculated" values.

4.6 SPURIOUS EMISSIONS FOR RECEIVER

4.6.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)



4.6.2 SUMMARY OF TEST RESULTS – MODE A, B, C

GFSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	below 1GHz	836.070	0.011872nW	885.783	0.012375nW	3nW	PASS
	above 1GHz	1753.250	12.741854nW	2417.375	4.452448nW	19nW	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	below 1GHz	457.770		0.011503nW		3nW	PASS
	above 1GHz	1744.625		1.523962nW		19nW	PASS

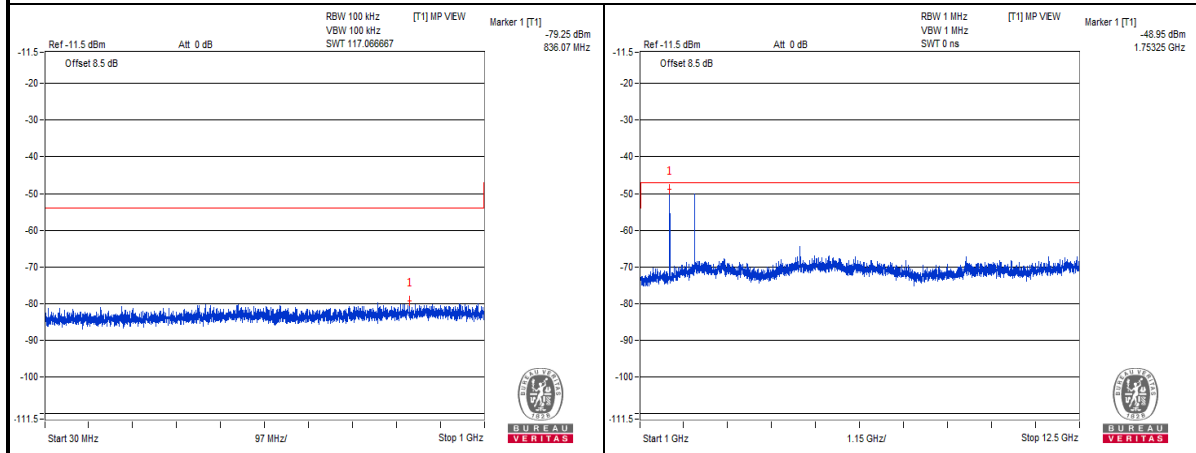
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following page.



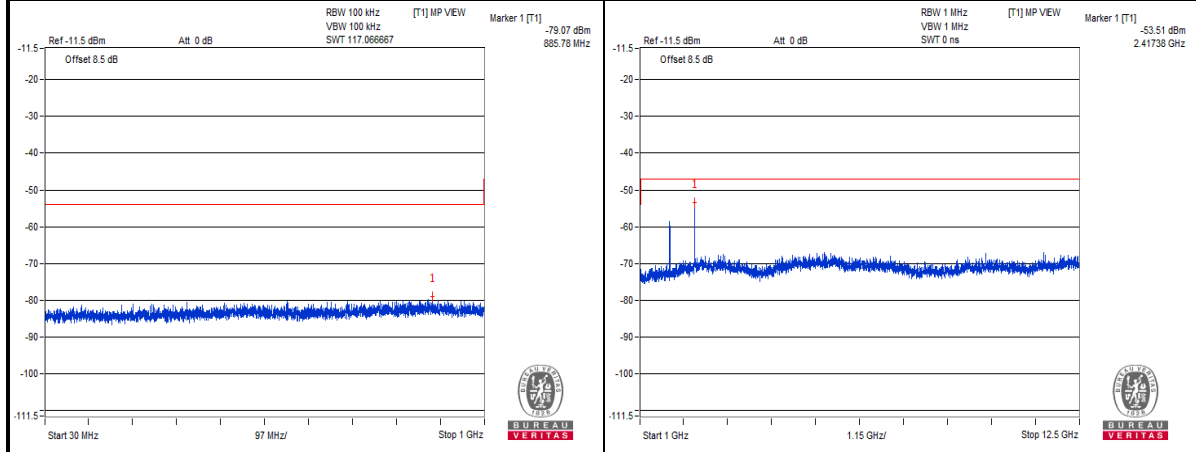
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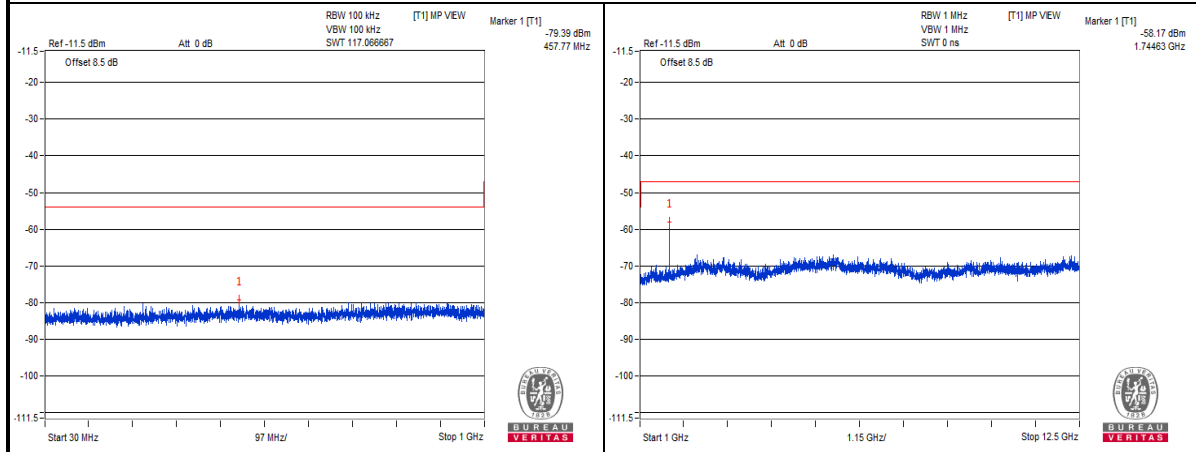
Vnormal



Channel 0



Channel 39



Channel 78

Measurement uncertainty: $\pm 3.93\text{dB}$



8DPSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	below 1GHz	979.630	0.01053nW	825.158	0.011731nW	3nW	PASS
	above 1GHz	2414.500	15.300921nW	2414.500	9.473495nW	19nW	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	below 1GHz	773.263		0.012631nW		3nW	PASS
	above 1GHz	12316.000		0.220153nW		19nW	PASS

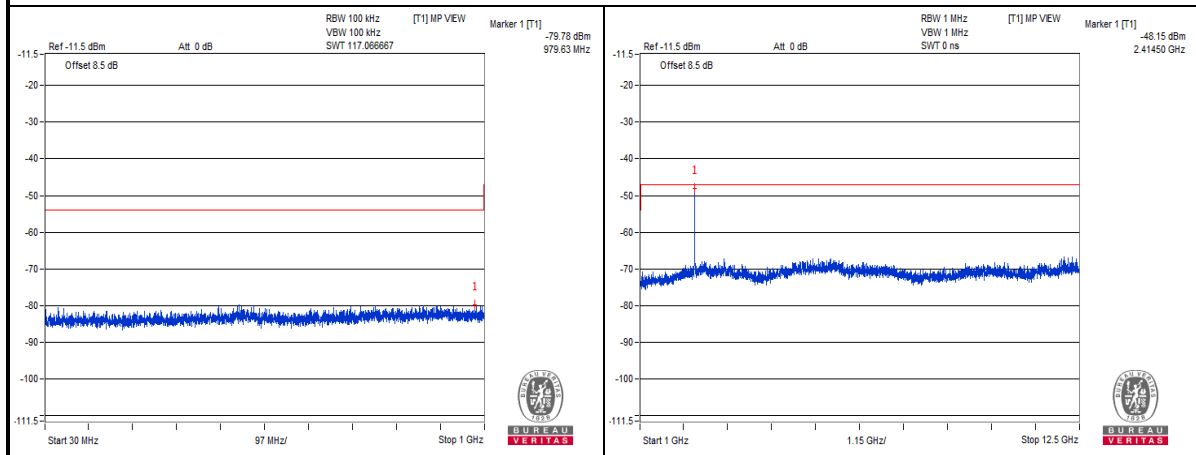
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following page.



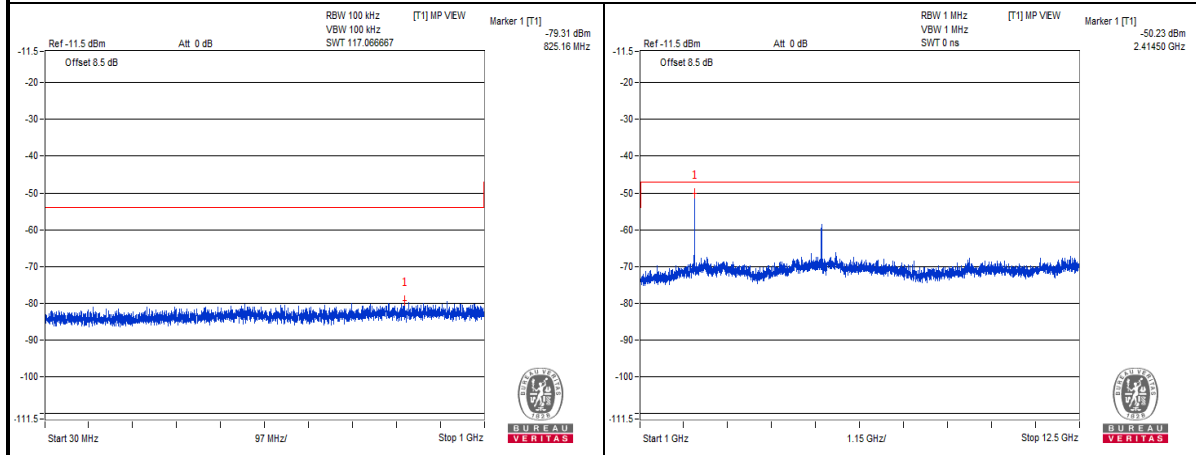
BUREAU
VERITAS

Test Report No.: RJ180530W011-1

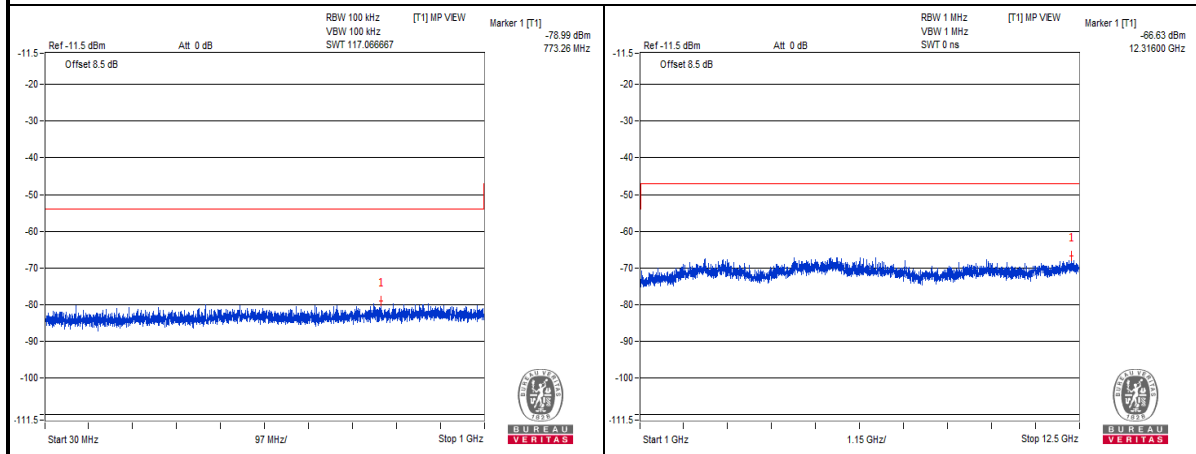
Vnormal



Channel 0



Channel 39



Channel 78

Measurement uncertainty: $\pm 3.93\text{dB}$

 $\pi/4$ -DQPSK

TEST CHANNEL		CH 0 (2402MHz)		CH 39 (2441MHz)		LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)	MEASURE. VALUE	FREQUENCY (MHz)	MEASURE. VALUE		
V _{normal}	below 1GHz	888.450	0.011687nW	759.683	0.01321nW	3nW	PASS
	above 1GHz	2417.375	6.516827nW	6060.000	0.27952nW	19nW	PASS
TEST CHANNEL		CH 78 (2480MHz)				LIMIT	RESULT
TEST CONDITION	FREQUENCY RANGE	FREQUENCY (MHz)		MEASURE. VALUE			
V _{normal}	below 1GHz	983.268		0.01427nW		3nW	PASS
	above 1GHz	5778.250		0.94021nW		19nW	PASS

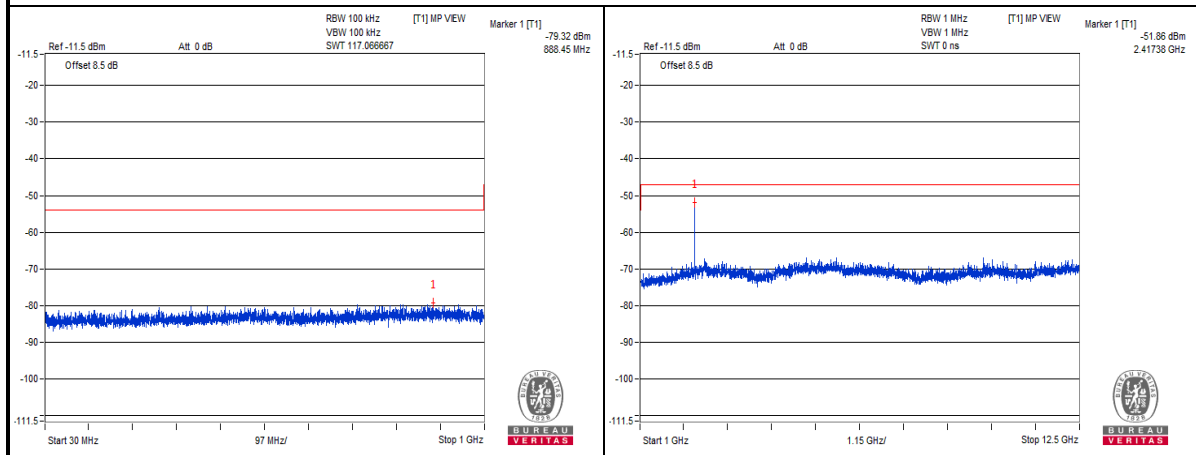
NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
 2. The spectrum plots are attached on the following page.



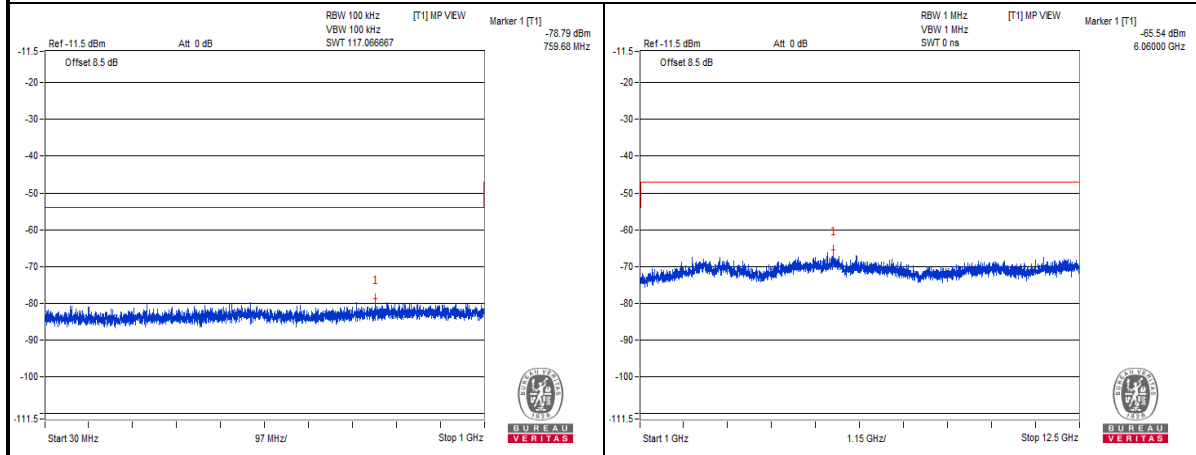
BUREAU
VERITAS

Test Report No.: RJ180530W011-1

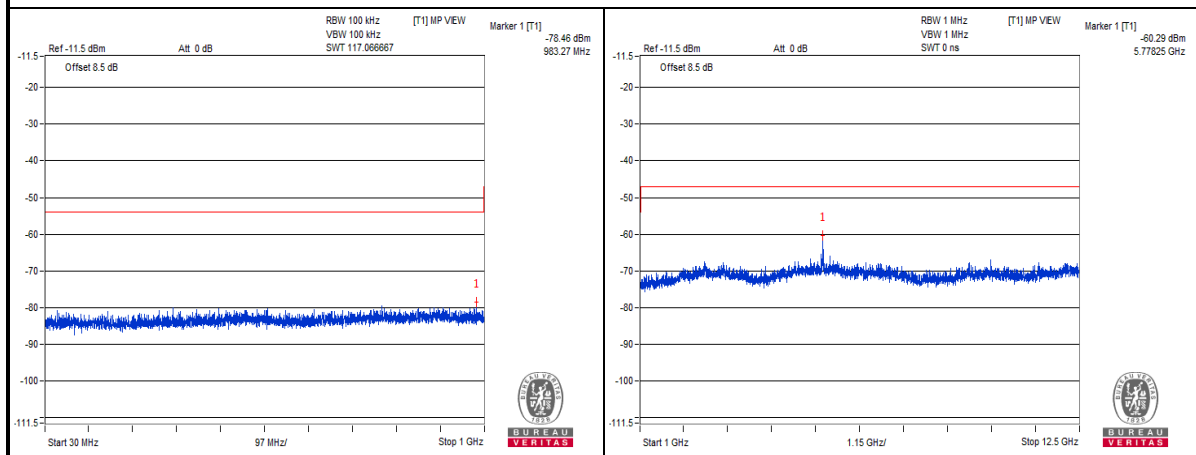
Vnormal



Channel 0



Channel 39



Channel 78

Measurement uncertainty: $\pm 3.93\text{dB}$

4.7 DWELL TIME

4.7.1 LIMITS OF DWELL TIME

The frequency retention time in the frequency hopping method shall be 0.4 second or less. The total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter.

Formula : **(Normal mode)** dwell time = [Spreading rate/79] x duty ratio x 0.4 seconds
(AFH mode) dwell time = [Spreading rate/20] x duty ratio x 0.4 seconds

4.7.2 TEST RESULTS – MODE A

For GFSK:

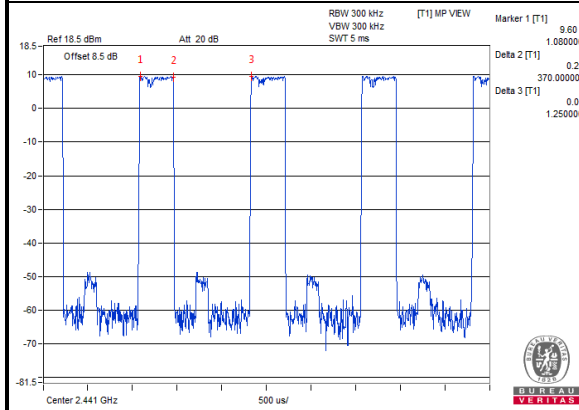
Test Condition	23 deg.C, 58 % RH					
Normal Voltage	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH1	70.38	0.356	0.296	105.376	400
	DH3	70.38	0.356	0.652	232.112	400
	DH5	70.38	0.356	0.768	273.408	400



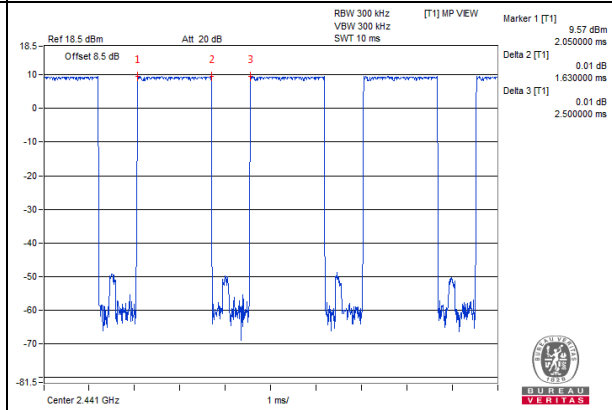
BUREAU
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Test Report No.: RJ180530W011-1

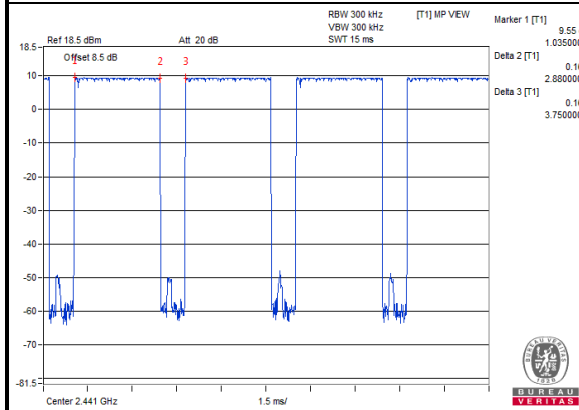
DH1 Normal Voltage



DH3 Normal Voltage



DH5 Normal Voltage



4.7.3 TEST RESULTS – MODE B

For 8DPSK:

Test Condition	23 deg.C, 58 % RH					
Normal Voltage	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH1	70.56	0.357	0.304	108.528	400
	DH3	70.56	0.357	0.652	232.764	400
	DH5	70.56	0.357	0.759	270.963	400



4.7.4 TEST RESULTS – MODE C

For $\pi/4$ -DQPSK:

Test Condition	23 deg.C, 58 % RH					
	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
Normal Voltage	DH1	70.56	0.357	0.300	107.100	400
	DH3	70.56	0.357	0.648	231.336	400
	DH5	70.56	0.357	0.760	271.320	400



4.7.5 TEST RESULTS – MODE D

For GFSK< Enable AFH function>:

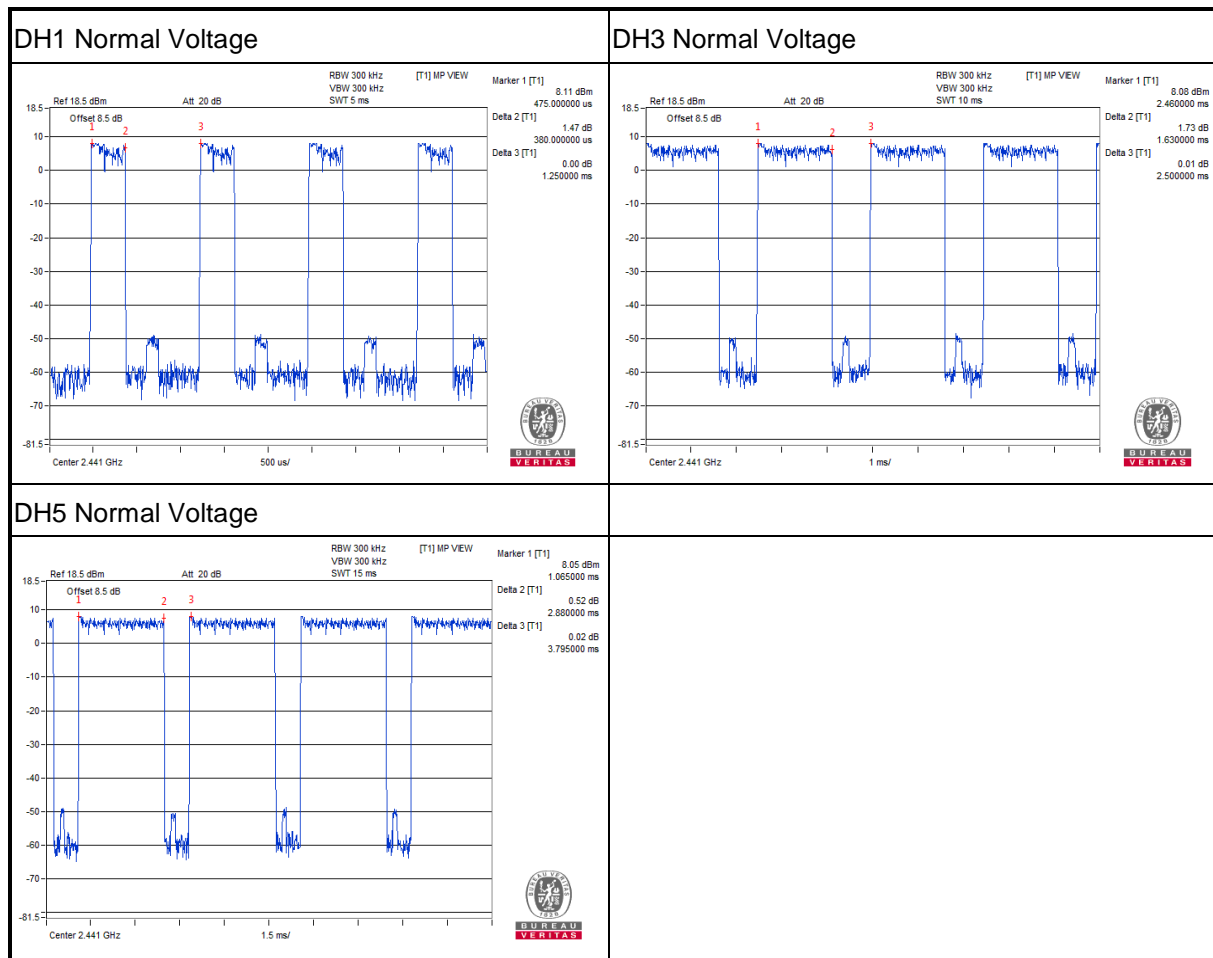
Test Condition	23 deg.C, 58 % RH					
Normal Voltage	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH1	17.95	0.359	0.296	106.264	400
	DH3	17.95	0.359	0.652	234.068	400
	DH5	17.95	0.359	0.768	275.712	400



4.7.6 TEST RESULTS – MODE E

For 8DPSK< Enable AFH function>:

Test Condition	23 deg.C, 58 % RH					
	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
Normal Voltage	DH1	18.35	0.367	0.304	111.568	400
	DH3	18.35	0.367	0.652	239.284	400
	DH5	18.35	0.367	0.759	278.553	400



4.7.7 TEST RESULTS – MODE F

For $\pi/4$ -DQPSK < Enable AFH function>:

Test Condition	23 deg.C, 58 % RH					
Normal Voltage	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH1	18.05	0.361	0.300	108.300	400
	DH3	18.05	0.361	0.648	233.928	400
	DH5	18.05	0.361	0.760	274.360	400

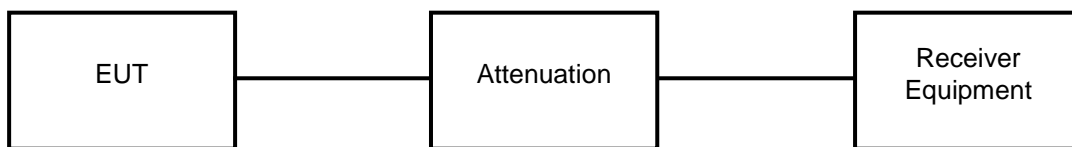


4.8 INTERFERENCE PREVENTION FUNCTION

4.8.1 LIMITS OF INTERFERENCE PREVENTION FUNCTION

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

4.8.2 TEST SETUP



4.8.3 TEST RESULTS

ENVIRONMENTAL CONDITIONS	23 deg.C, 58% RH
LINK MODE	TEST RESULT
BT	PASS

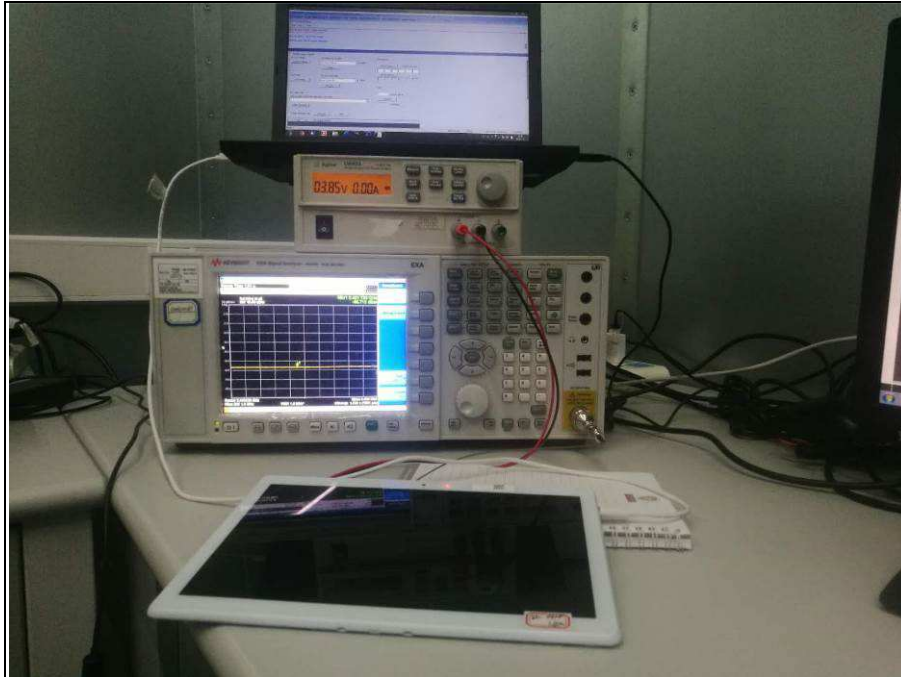
5 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Calibration Authority	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	LiSai	Mar. 02,18	Mar. 01,19
DC Source	Kikusui/JP	PMX18-5A	0000001	N/A	Jan. 07,18	Jan. 06,19
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	LiSai	Mar. 16,18	Mar. 15,19
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510523	LiSai	Mar. 16,18	Mar. 15,19
Power Sensor	ANRITSU	MA2411B	1339352	LiSai	Mar. 16,18	Mar. 15,19
CBT32 BLUETOOTH TESTER 4HU	Rohde&Schwarz	CBT32	101176	LiSai	Mar. 14,18	Mar. 13,19

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in RF Oven room.

6 PHOTOGRAPHS OF THE TEST CONFIGURATION



7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

--- END ---