

## Test Report

2018年5月16日

Radio class	* Radio Equipment specified in Article 2-1-19 of the Certification Ordinance		
Model type or name	MQL1		
Serial number	EM00001		
Test procedure	<input checked="" type="checkbox"/> According to the MIC Notification No.88 (2008/01/26) <input type="checkbox"/> According to the TUV-Rheinland Japan's test procedure		
Test date	2018/4/25 ~ 2018/5/2		
Test condition	Temp.	22.0°C	~ 24.0°C
	Hum.	45.0%	~ 60.0%
Measurement equipment	refer to Form 5		
Test engineer	The person who conducted the owns longer than 3 years experience in test		
Remarks			

(Note) Each classification has to be filled.

(Form5)

Measuring Instruments and other equipment specified at Apended table No3 in Radio Law.	Measuring Instruments etc.	Model name	Manufactuerer	Serial Number	Calibration Company	Calibration data	Note (*)
	✓ Spectrum Analyzer	FSP30	Rohde & Schwarz	837866/009	ETC, Taiwan	2018/2/5	(ha)
	✓ Power Meter	NRVD	Rohde & Schwarz	100439	ETC, Taiwan	2017/6/26	(ha)
	✓ Power Sensor	NRV-Z1	Rohde & Schwarz	100013	ETC, Taiwan	2017/6/26	(ha)
	✓ Dual Display Multimeter	45	FLUKE	6865017	ETC, Taiwan	2017/9/22	(ha)

\* (i) ~ (ni) item 2, paragraph 4, Article 24-2 in Radio Law

### Other 2.4GHz Radio Equipment

Art. 2-1-19

			Unit	Limit														
Test Result	Test Voltage		V		DC 5 V (normal)				DC 5.5 V (high)				DC 4.5 V (low)					Notes
	Test Frequency		MHz		2404	2441	2478		2404	2441	2478		2404	2441	2478		Antenna Gain = -0.5dBi	
Frequency Error			ppm	50	2.36	2.50	1.72		1.73	2.70	2.30		1.77	3.34	2.21		Number of Stream = 1	
Occupied Bandwidth			MHz	26.0	2.136	2.124	2.424		2.124	2.136	2.400		2.124	2.124	2.328		ok	
Spreading Bandwidth				NA													-	
Spreading Factor			-	NA													-	
Spurious Emissions	30.0 ~ 2387.0	MHz	uW/MHz	2.5	0.0138	0.0205	0.0632		0.2265	0.0491	0.0912		0.0635	0.0250	0.0142		ok	
			MHz	-	1864.06	1864.06	908.51		908.51	918.01	913.26		2372.74	908.51	1854.55		ok	
	2387.0 ~ 2400.0	MHz	uW/MHz	25.0	0.0531	0.0008	0.0001		0.0520	0.0007	0.0001		0.0542	0.0007	0.0001		ok	
			MHz	-	2399.92	2388.85	2396.57		2400.00	2387.31	2397.30		2400.00	2387.96	2398.00		ok	
	2483.5 ~ 2496.5	MHz	uW/MHz	25.0	0.0006	0.0024	0.1681		0.0006	0.0027	0.1684		0.0006	0.0031	0.1690		ok	
			MHz	-	2495.10	2483.68	2484.12		2491.01	2483.84	2483.99		2483.68	2483.53	2484.05		ok	
	2496.5 ~ 12500.0	MHz	uW/MHz	2.5	0.1556	0.0855	0.1183		0.0915	0.1222	0.0784		0.0863	0.1850	0.1641		ok	
			MHz	-	2556.52	2776.60	2496.50		2736.58	2516.51	2816.61		2736.58	2556.52	2516.51		ok	
Antenna Power			mW	10.0	0.0093	0.0078	0.0069		0.0094	0.0081	0.0069		0.0094	0.0084	0.0066		ok	
			%	-80	-7.21	-21.92	-31.30		-5.91	-18.74	-31.05		-5.71	-15.94	-33.59		ok	
			%	20	-7.21	-21.92	-31.30		-5.91	-18.74	-31.05		-5.71	-15.94	-33.59		ok	
Collateral Emissions	30.0 ~ 1000.0	MHz	nW	4.0	0.01	0.01	0.010		0.010	0.010	0.010		0.009	0.010	0.009		ok	
			MHz	-	908.92	703.00	83.26		536.68	936.64	473.32		912.88	142.66	314.92		ok	
	1000.0 ~ 12500.0	MHz	nW	20.0	0.65	0.69	0.55		0.52	0.62	0.55		0.51	0.57	0.51		ok	
			MHz	-	10223.00	9671.00	10269.00		10223.00	10246.00	10292.00		10246.00	10246.00	10315.00		ok	
Interference Protection			yes	Complies	Complies	Complies		Complies	Complies	Complies		Complies	Complies	Complies		ok		
Allowed Antenna Gain: 12.14 dBi			NA =															

Model name:

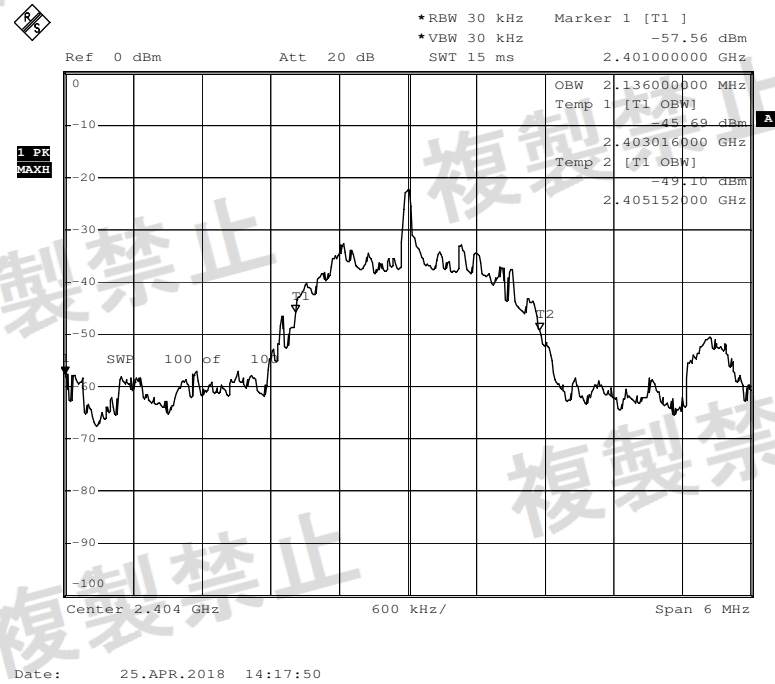
MQL1

## Other 2.4GHz Radio Equipment

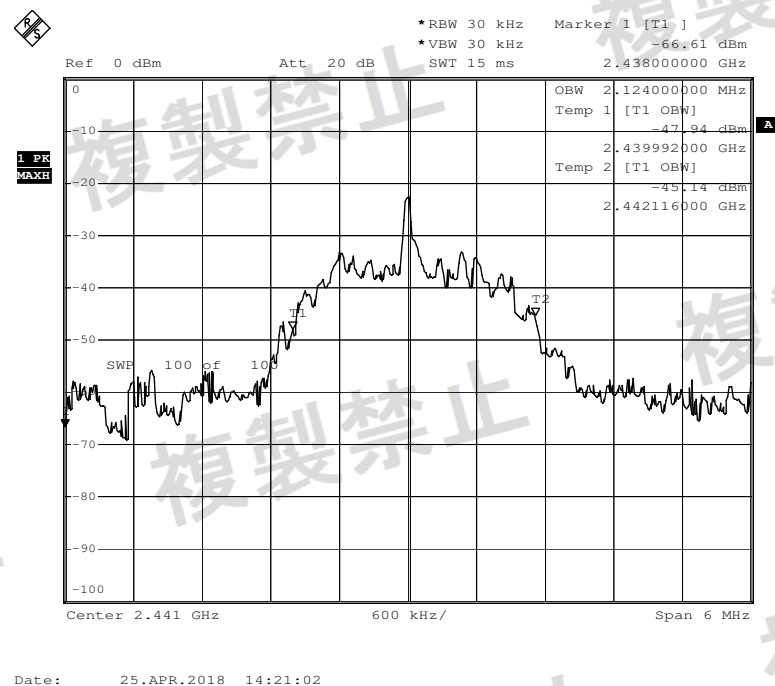
### Occupied Bandwidth

Normal Voltage

2404 MHz



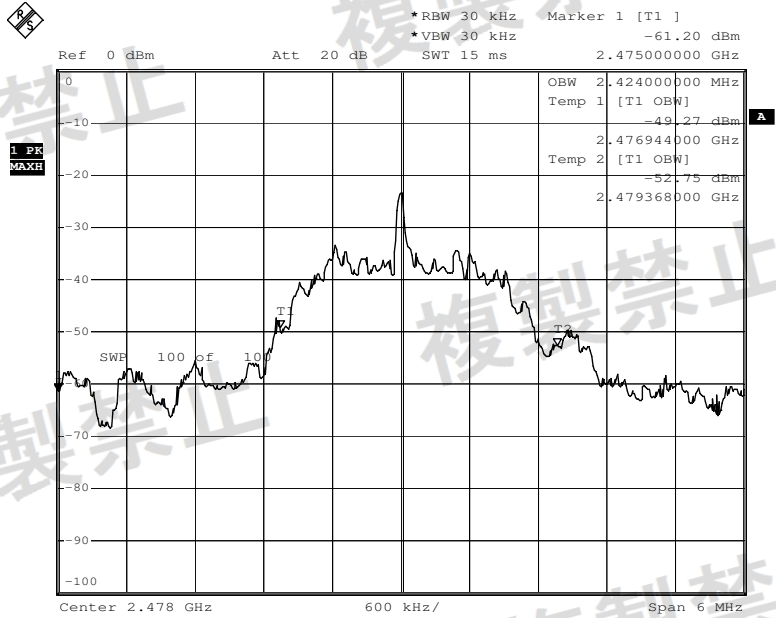
2441MHz



Model name:

MQL1

2478MHz



Date: 25.APR.2018 15:10:35

Model name:

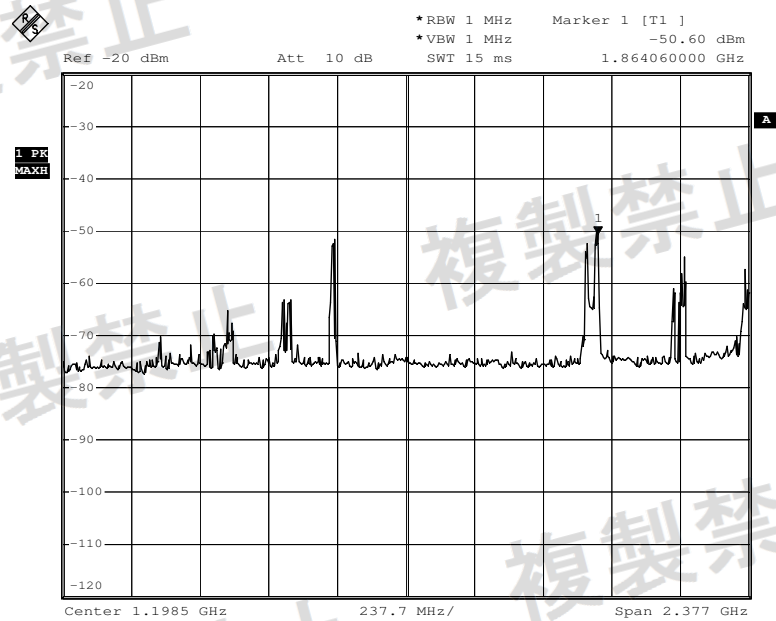
MQL1

## The Strength of Unwanted Emissions

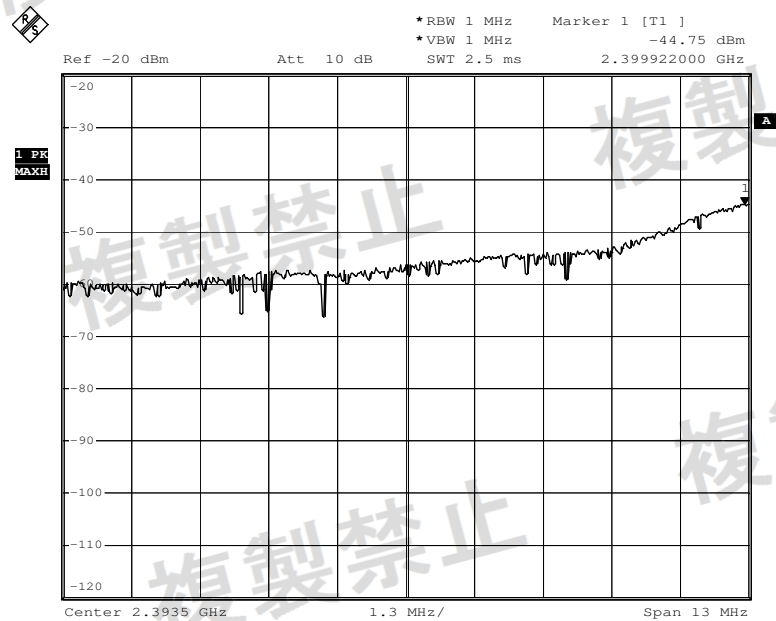
Model name:

MQL1

# The Strength of Unwanted Emissions Normal Voltage\_2404MHz



Date: 25.APR.2018 14:13:58

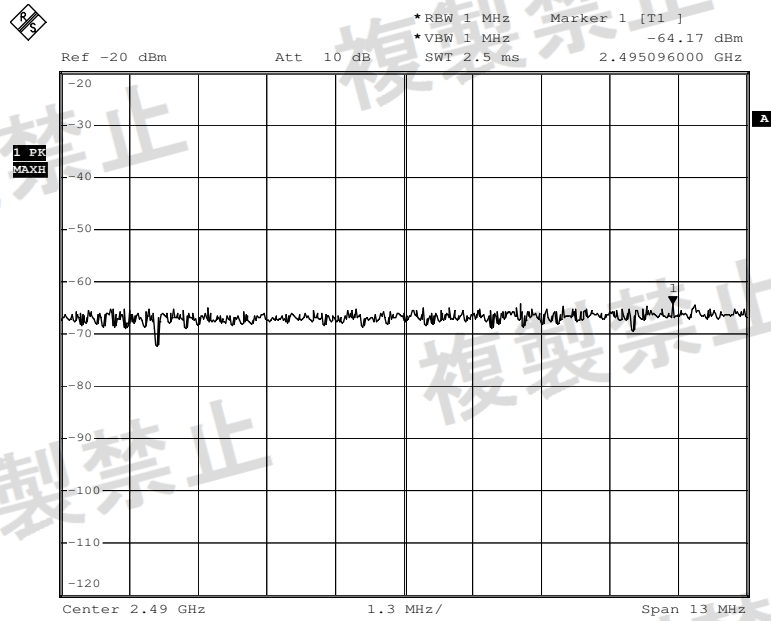


Date: 25.APR.2018 14:14:16

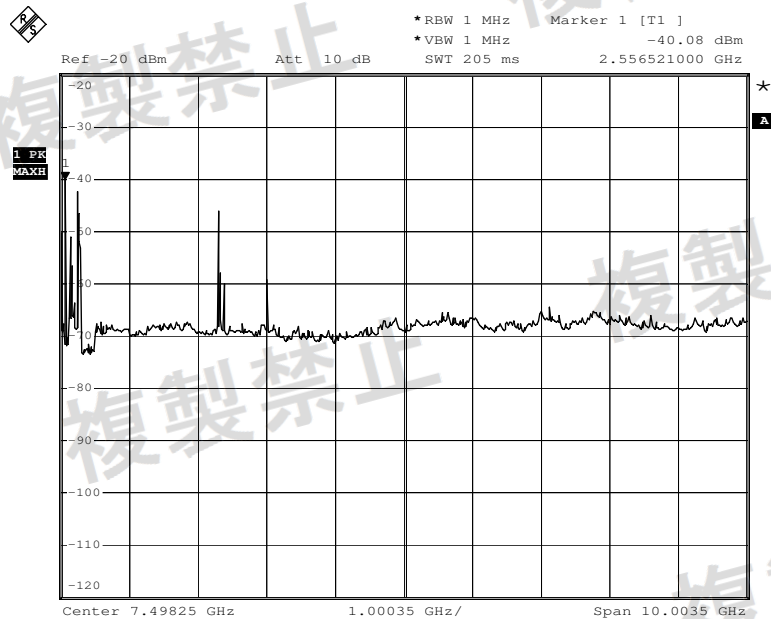


Model name:

MQL1



Date: 25.APR.2018 14:14:34



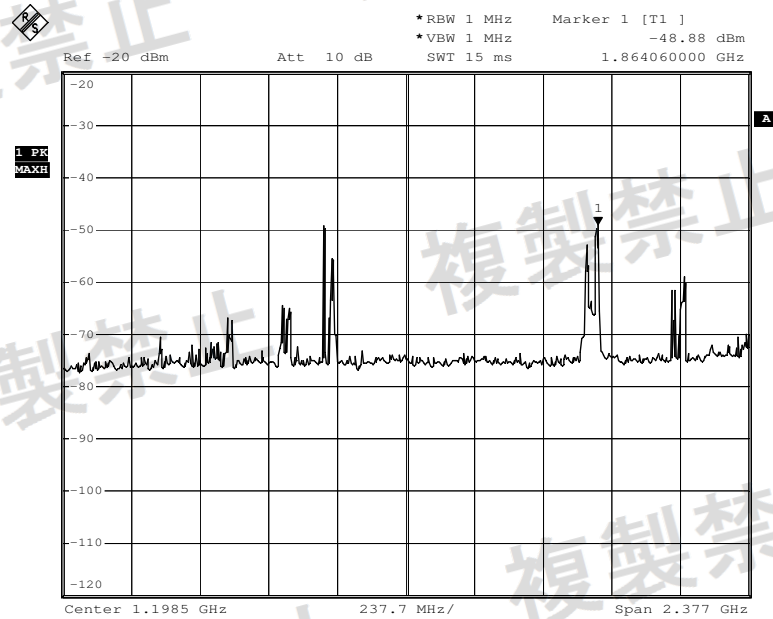
Date: 25.APR.2018 14:14:52



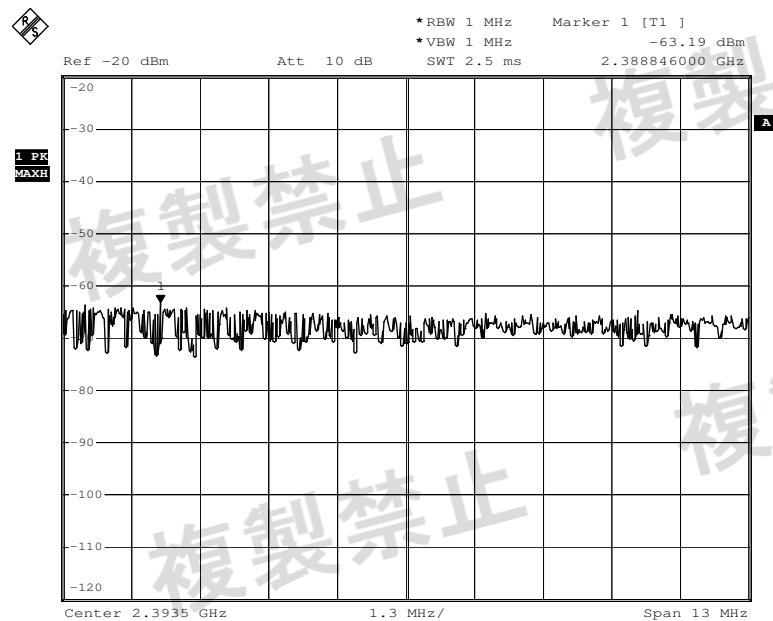
Model name:

MQL1

Normal Voltage\_2441MHz



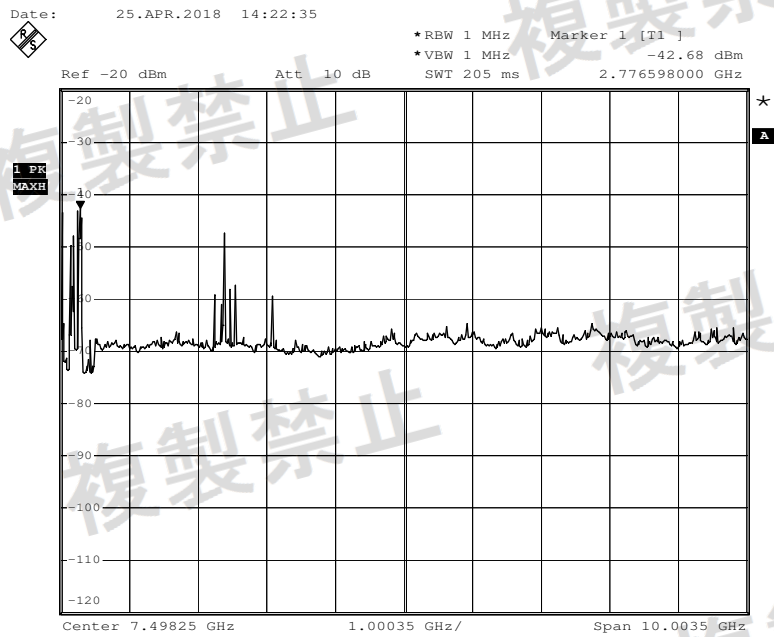
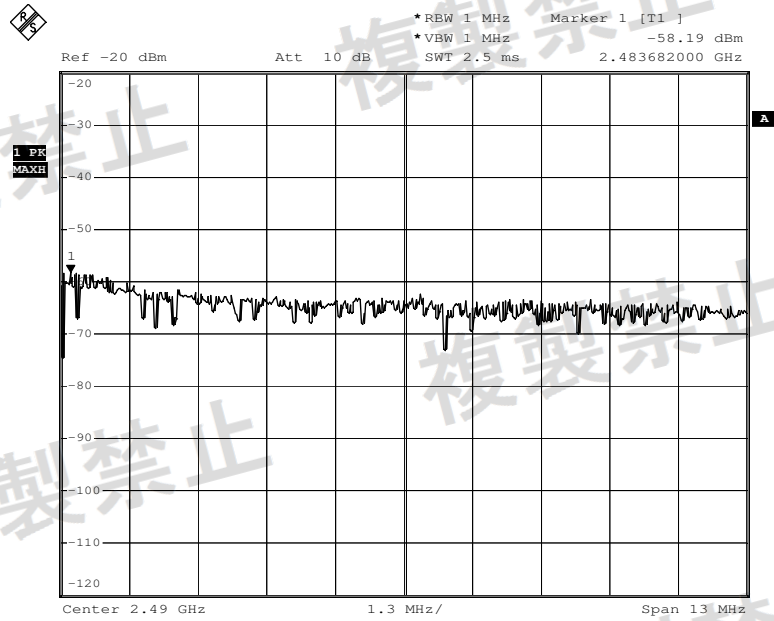
Date: 25.APR.2018 14:21:58



Date: 25.APR.2018 14:22:16

Model name:

MQL1

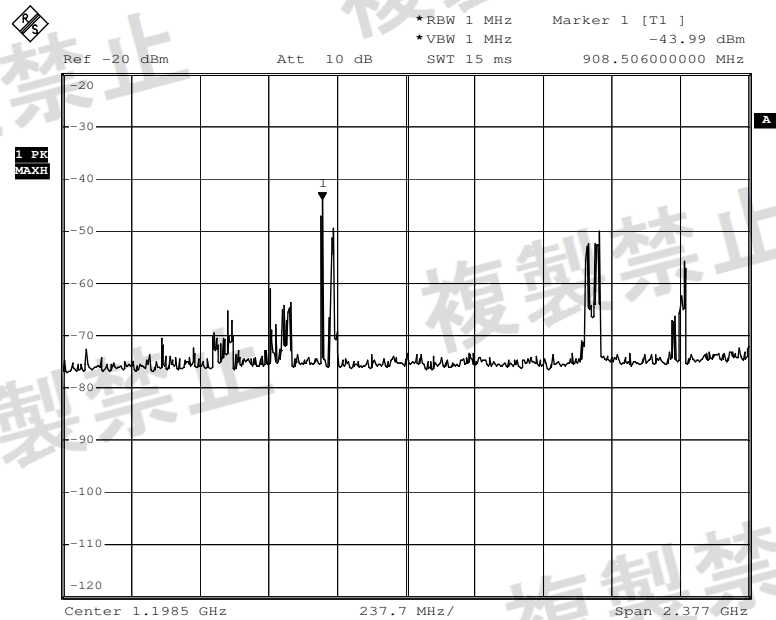


Date: 25.APR.2018 14:22:52

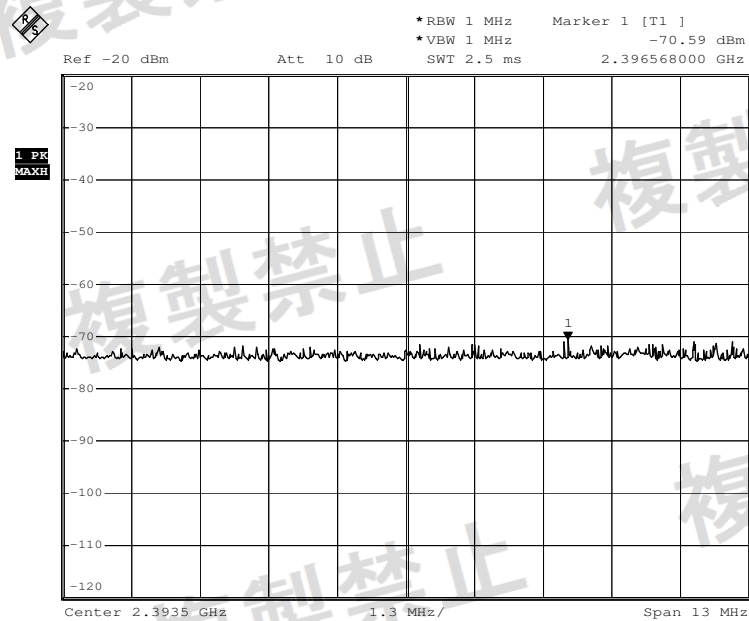
Model name:

MQL1

# Normal Voltage\_2478MHz



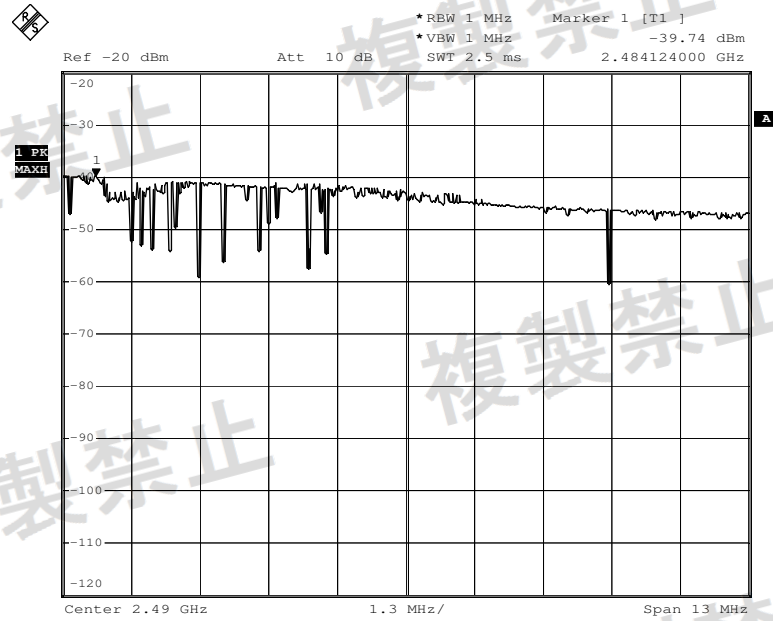
Date: 25.APR.2018 15:11:12



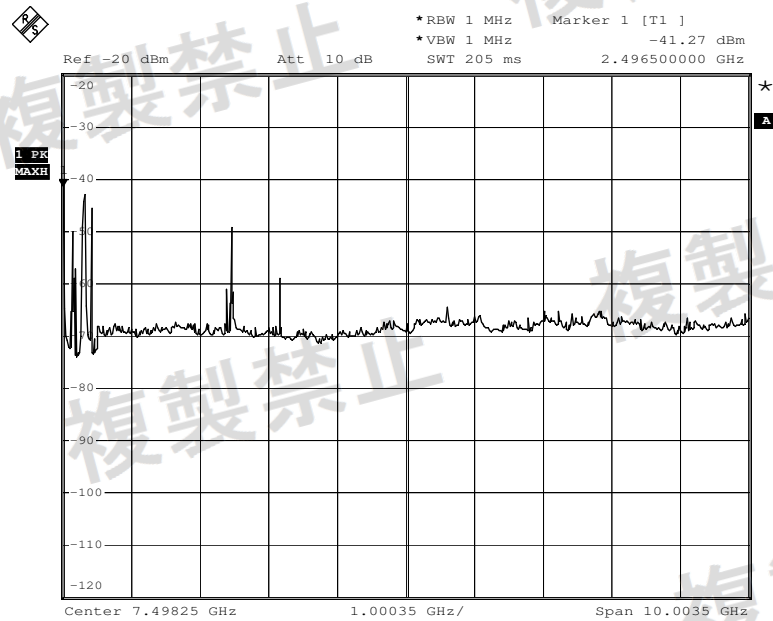
Date: 25.APR.2018 15:11:30

Model name:

MQL1



Date: 25.APR.2018 15:11:48



Date: 25.APR.2018 15:12:06