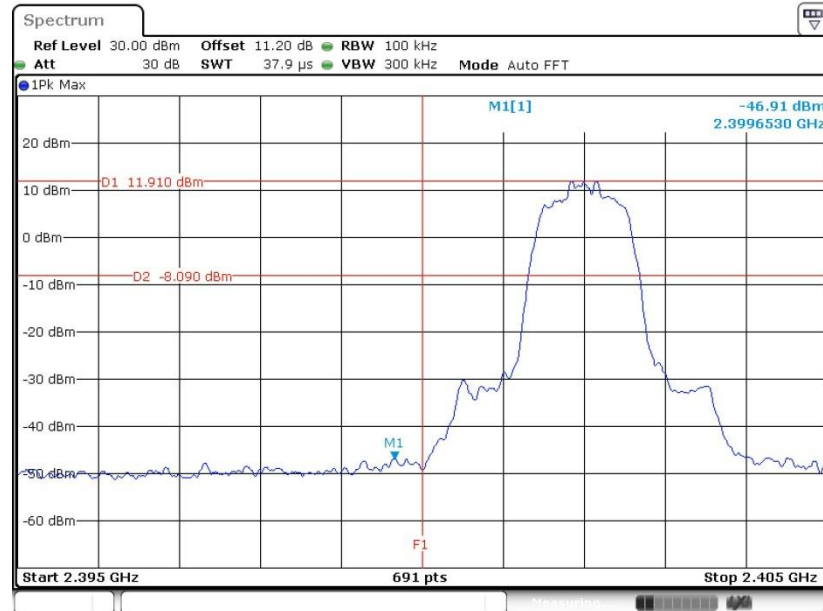


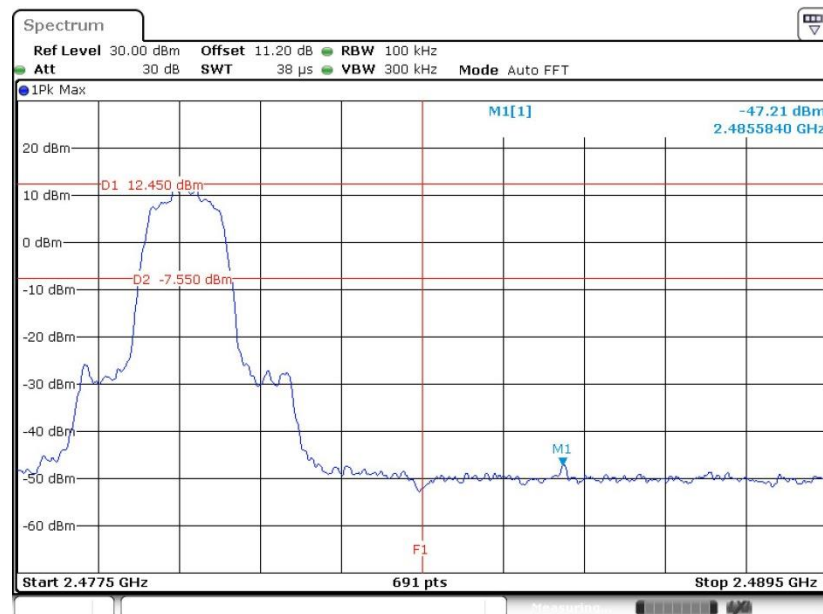
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Low Band Edge Plot on Channel 00



Date: 24.MAR.2023 06:15:32

High Band Edge Plot on Channel 78

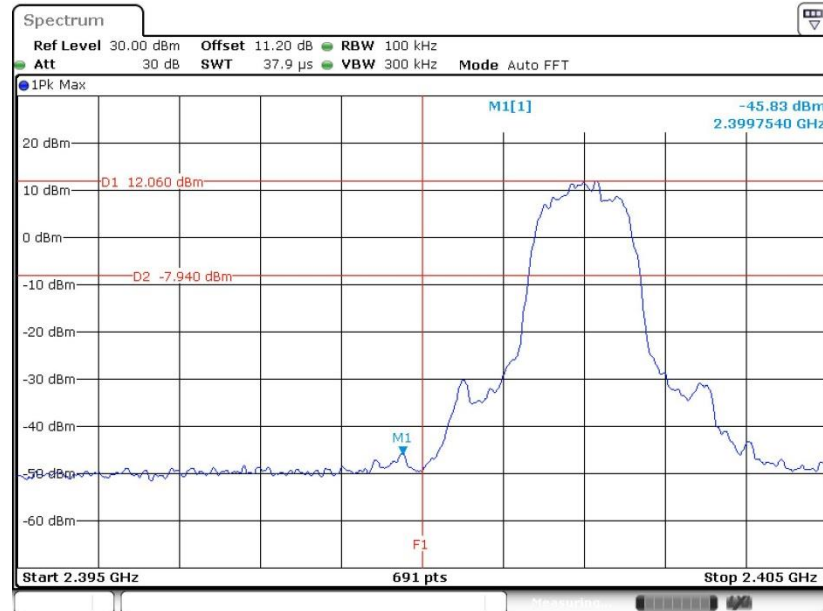


Date: 24.MAR.2023 06:25:27



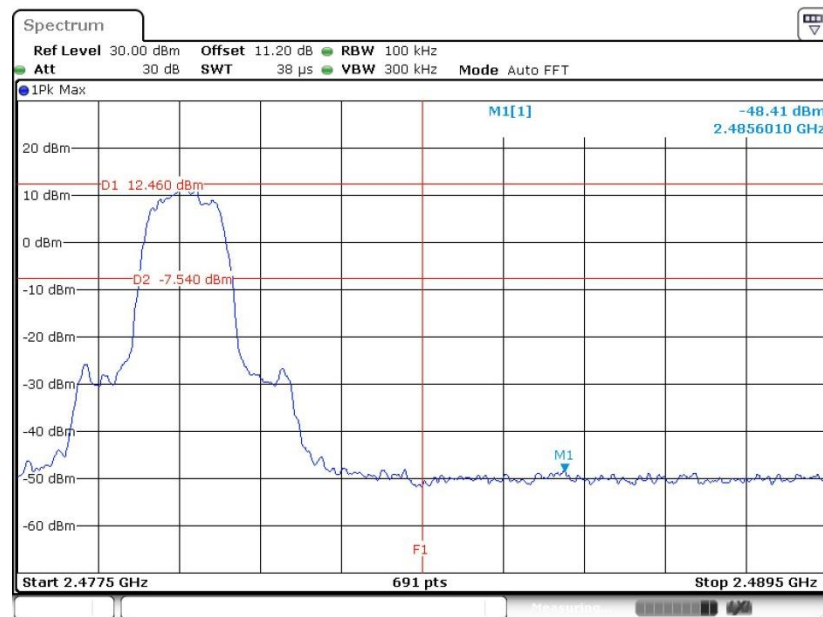
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Low Band Edge Plot on Channel 00



Date: 24.MAR.2023 06:33:30

High Band Edge Plot on Channel 78

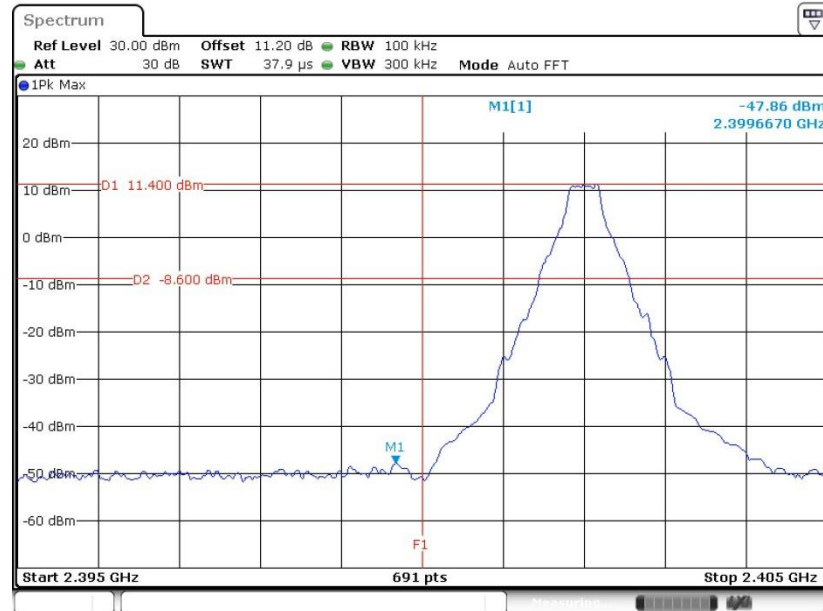


Date: 24.MAR.2023 06:42:50

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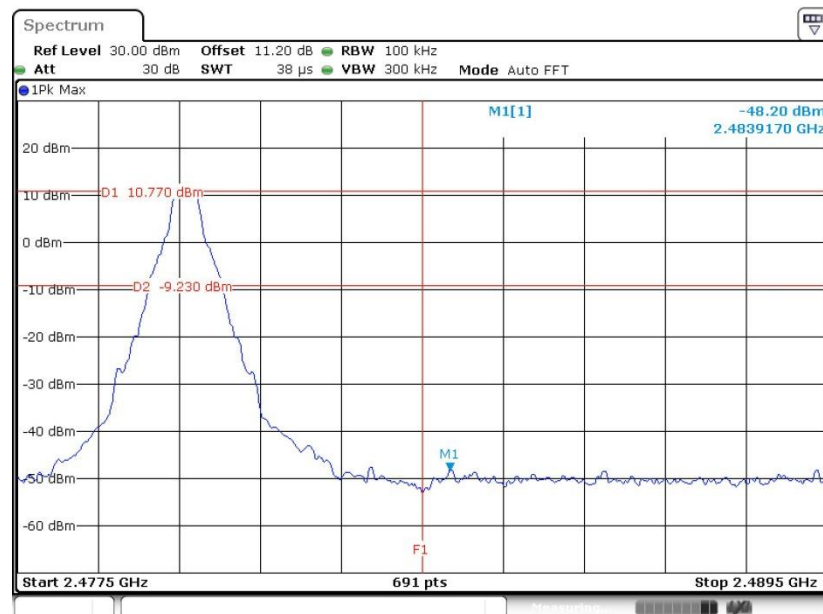
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Low Band Edge Plot on Channel 00



Date: 24.MAR.2023 07:25:26

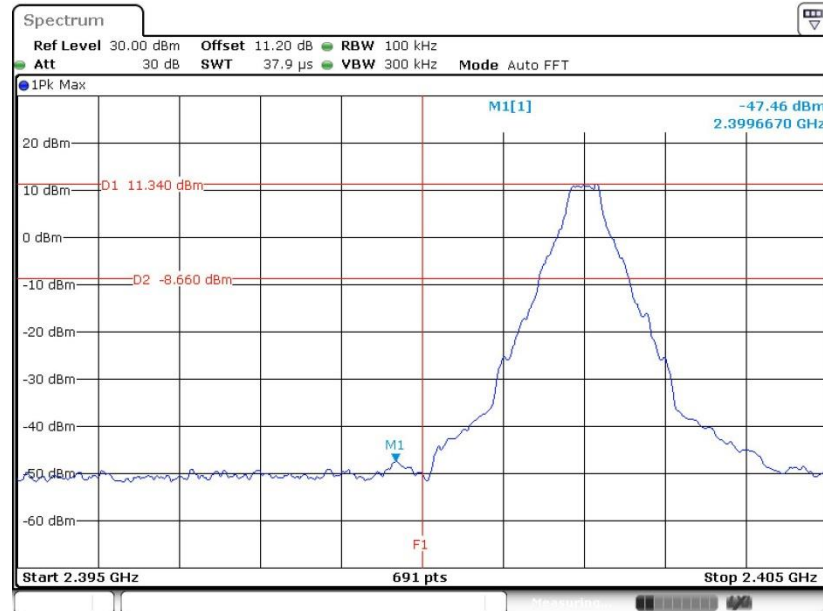
High Band Edge Plot on Channel 78



Date: 24.MAR.2023 07:35:03

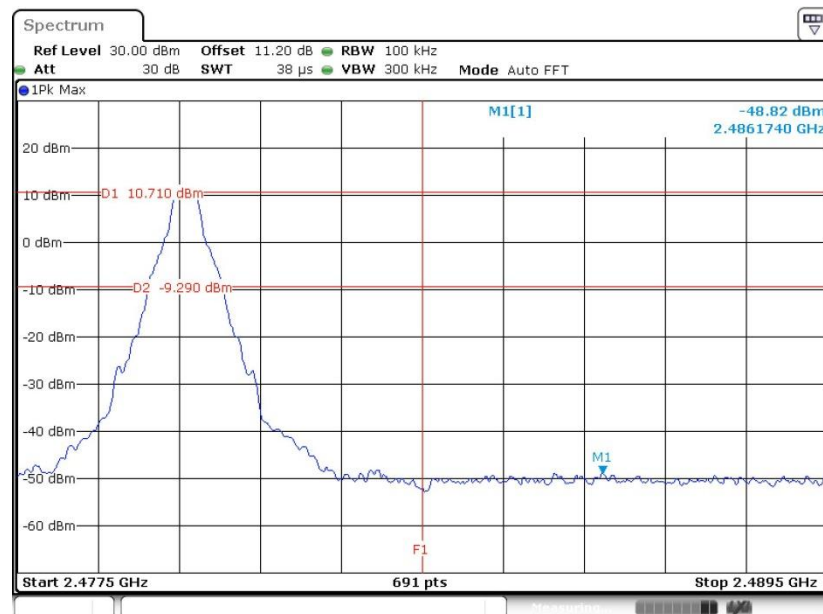
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Low Band Edge Plot on Channel 00



Date: 24.MAR.2023 07:42:11

High Band Edge Plot on Channel 78

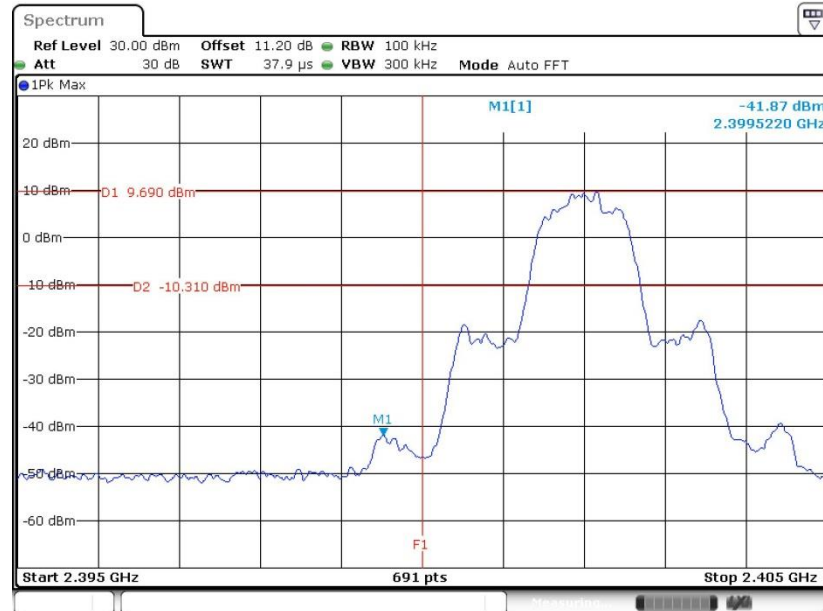


Date: 24.MAR.2023 07:51:59



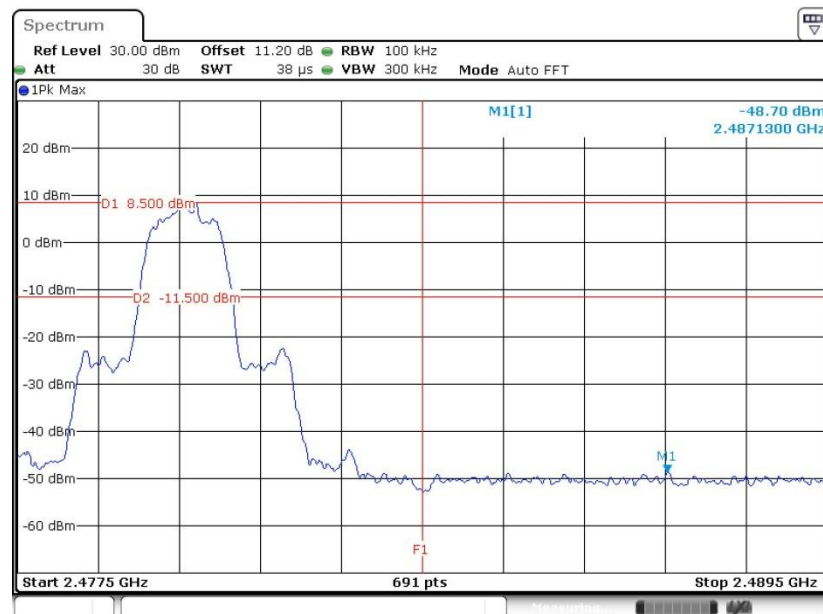
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Low Band Edge Plot on Channel 00



Date: 24.MAR.2023 07:57:39

High Band Edge Plot on Channel 78



Date: 24.MAR.2023 10:23:07

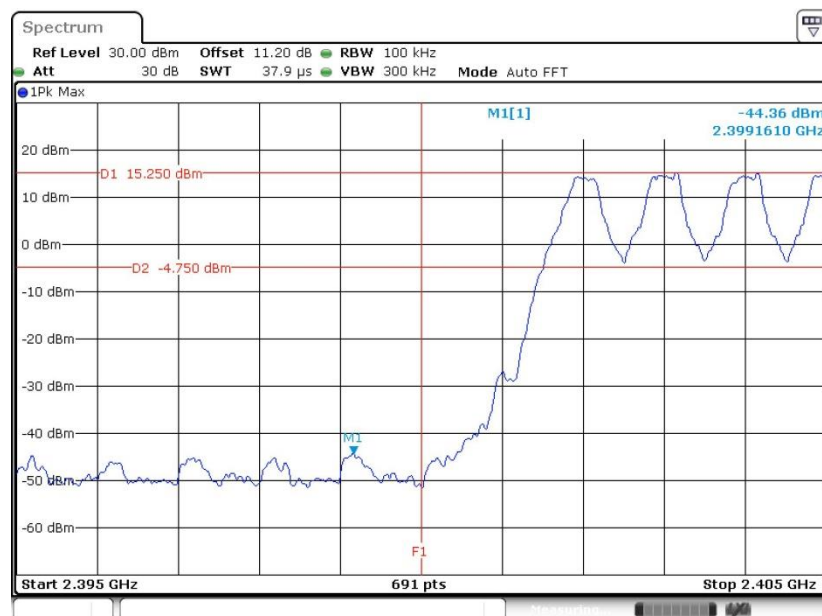


3.6.6 Test Result of Conducted Hopping Mode Band Edges

<Ant5>

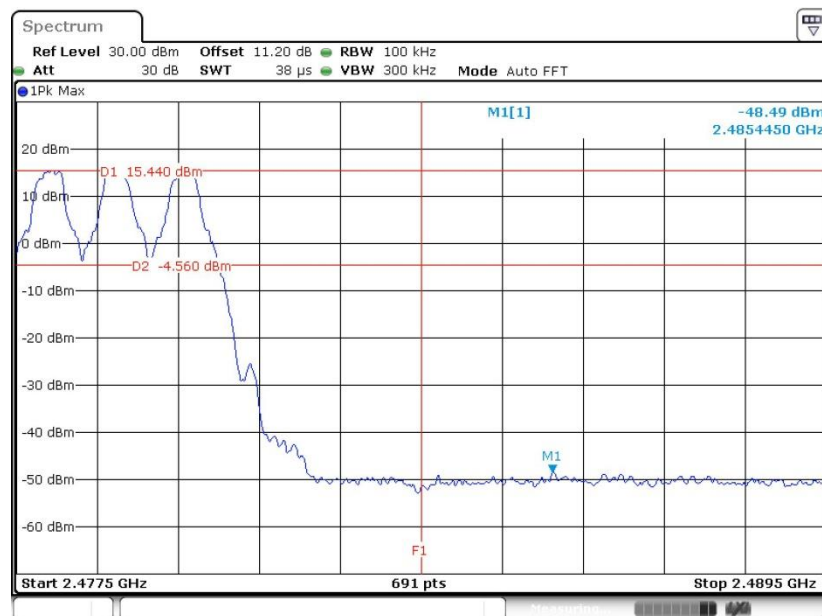
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Hopping Mode Low Band Edge Plot



Date: 24.MAR.2023 07:10:35

Hopping Mode High Band Edge Plot

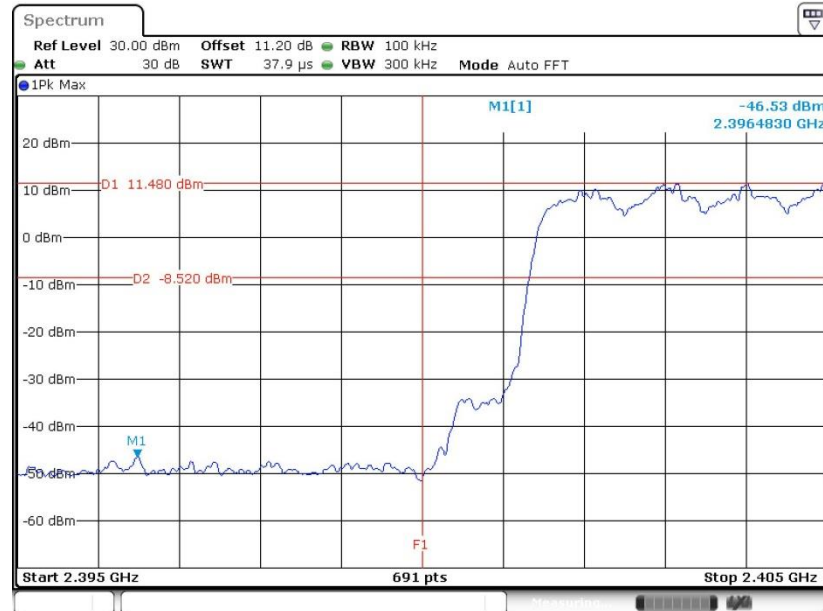


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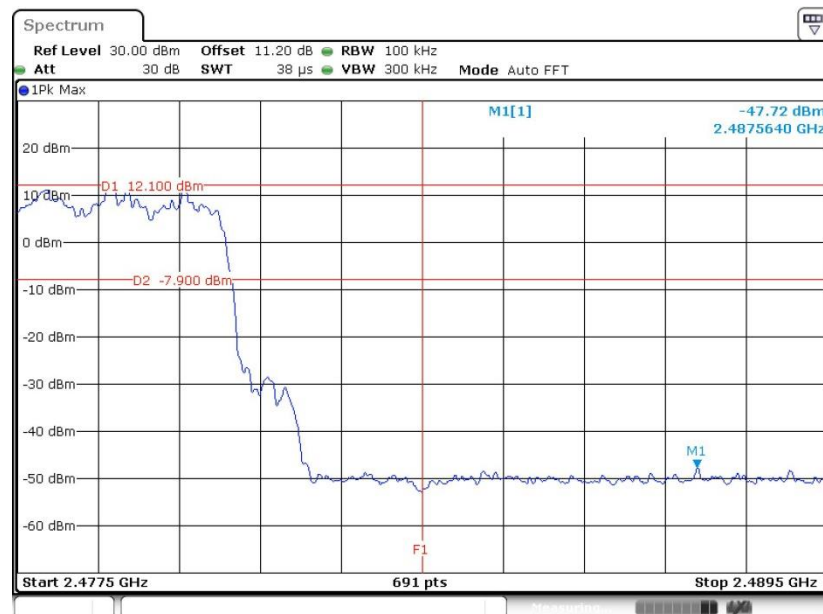
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Hopping Mode Low Band Edge Plot



Date: 24.MAR.2023 06:56:53

Hopping Mode High Band Edge Plot

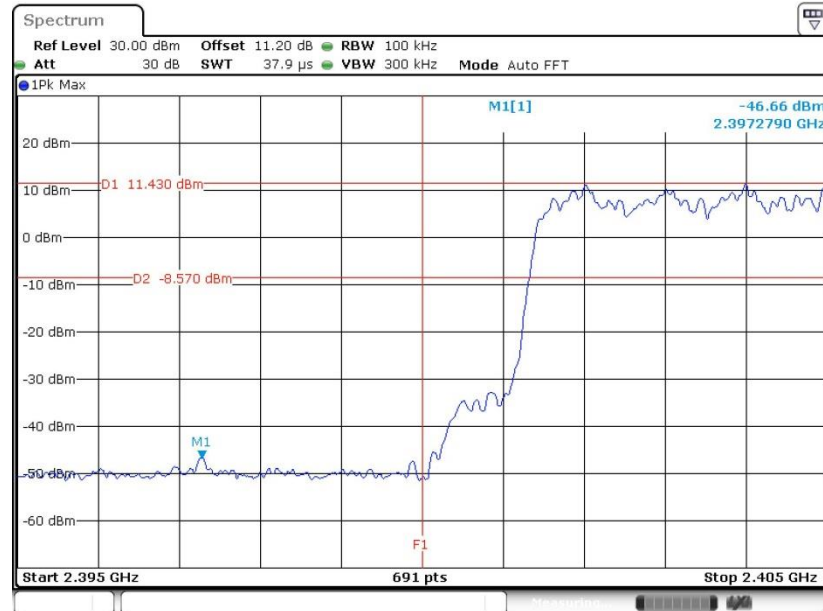


Date: 24.MAR.2023 06:55:36



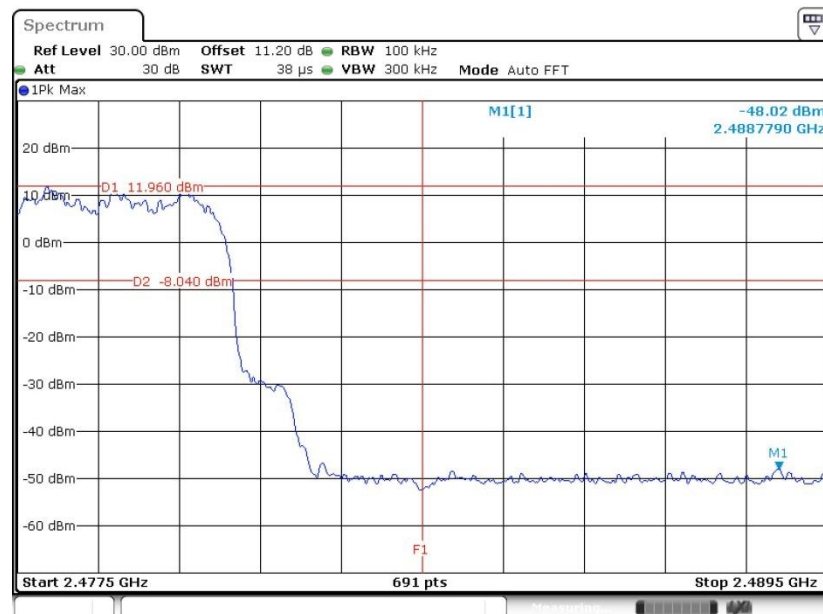
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Hopping Mode Low Band Edge Plot



Date: 24.MAR.2023 06:52:32

Hopping Mode High Band Edge Plot



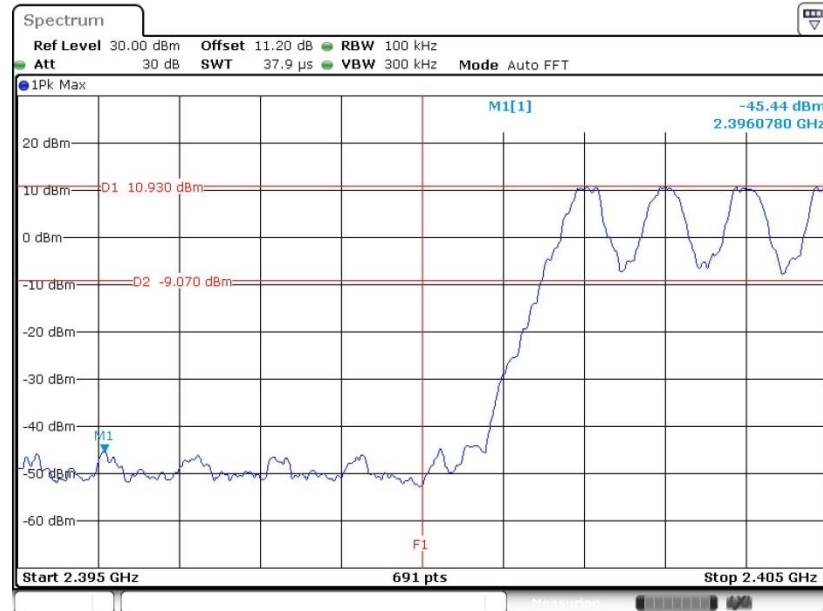
Date: 24.MAR.2023 06:54:14



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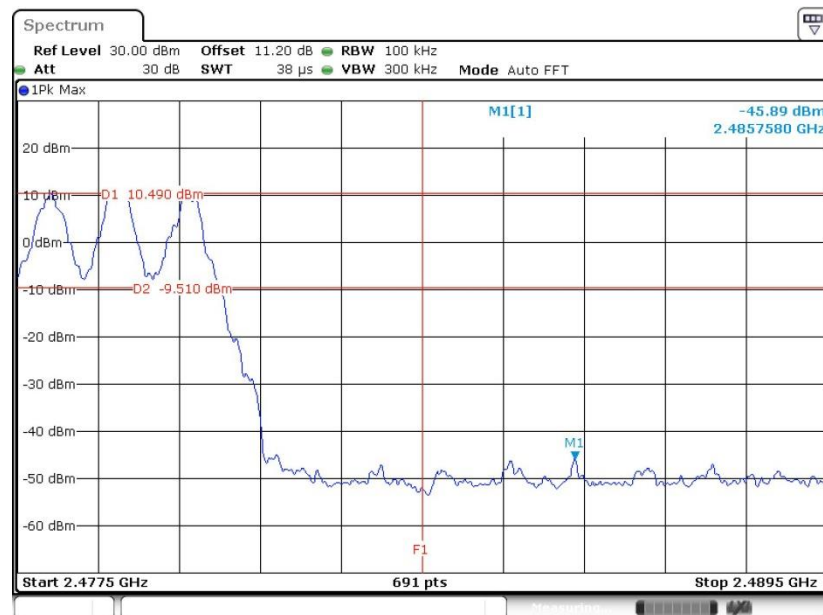
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Hopping Mode Low Band Edge Plot



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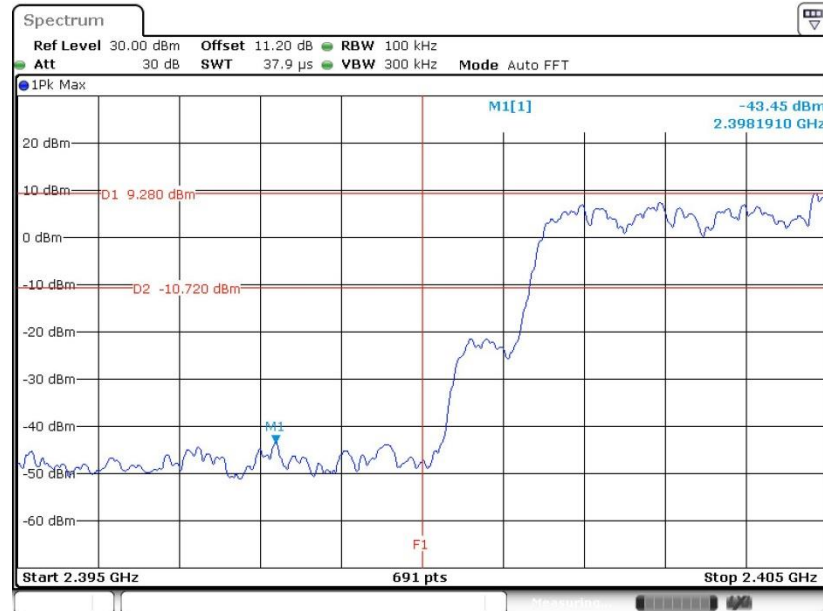
Hopping Mode High Band Edge Plot



Date: 24.MAR.2023 07:14:29

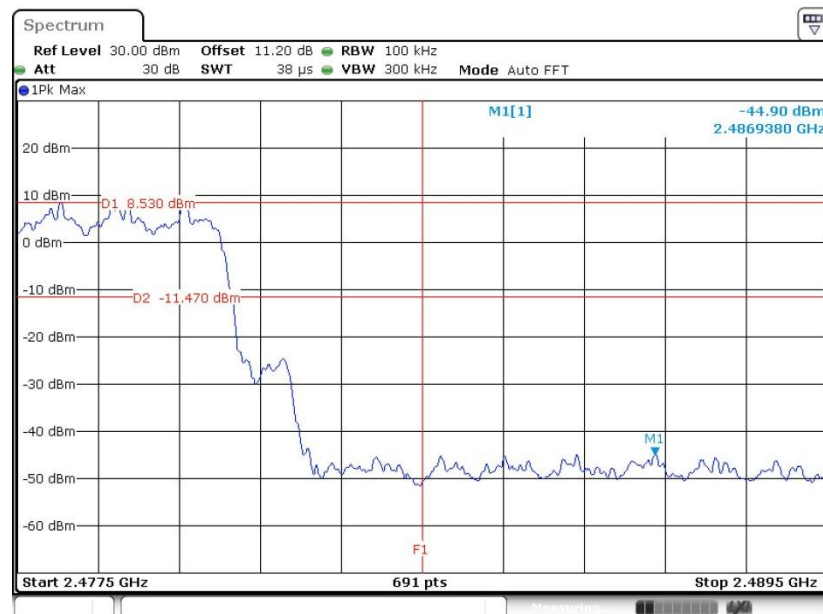
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Hopping Mode Low Band Edge Plot



Date: 24.MAR.2023 07:15:42

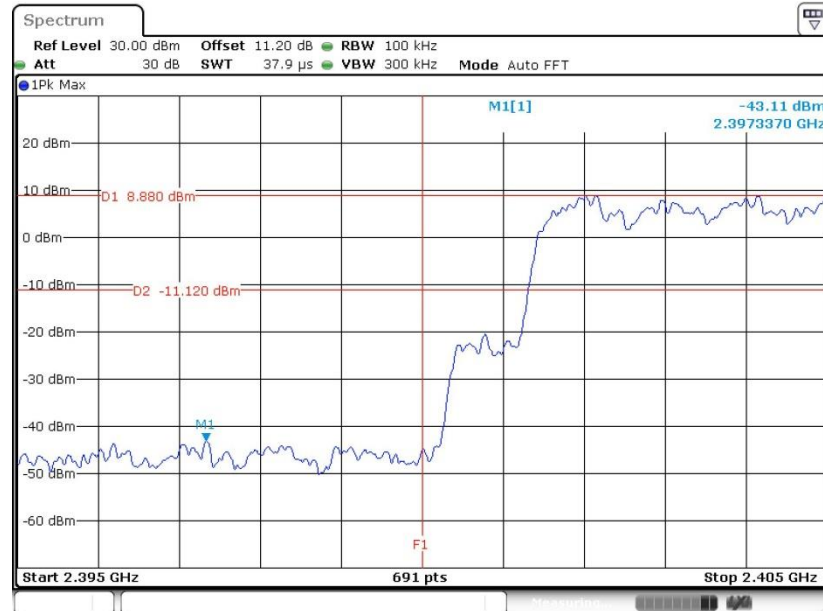
Hopping Mode High Band Edge Plot



Date: 24.MAR.2023 07:16:18

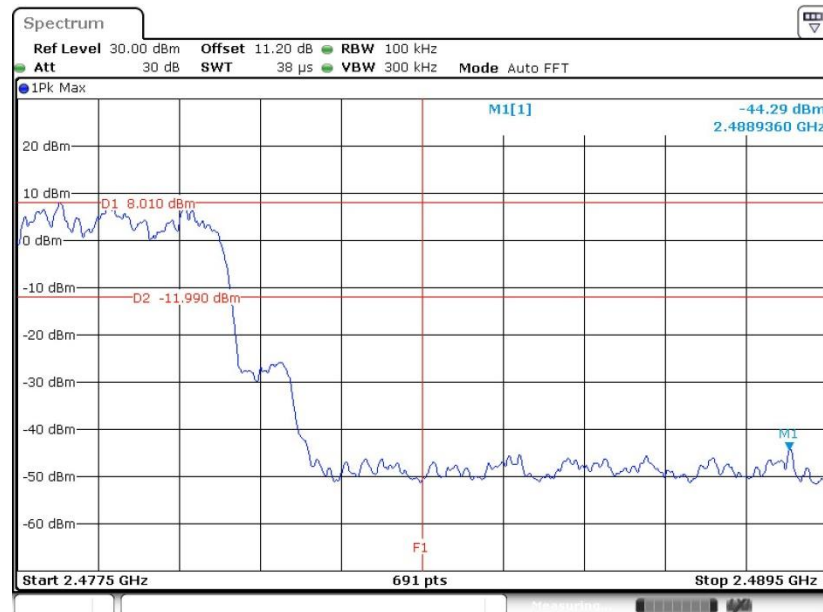
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Hopping Mode Low Band Edge Plot



Date: 24.MAR.2023 07:18:02

Hopping Mode High Band Edge Plot



Date: 24.MAR.2023 07:17:23

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

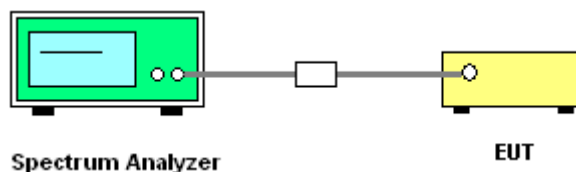
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.4 Test Setup

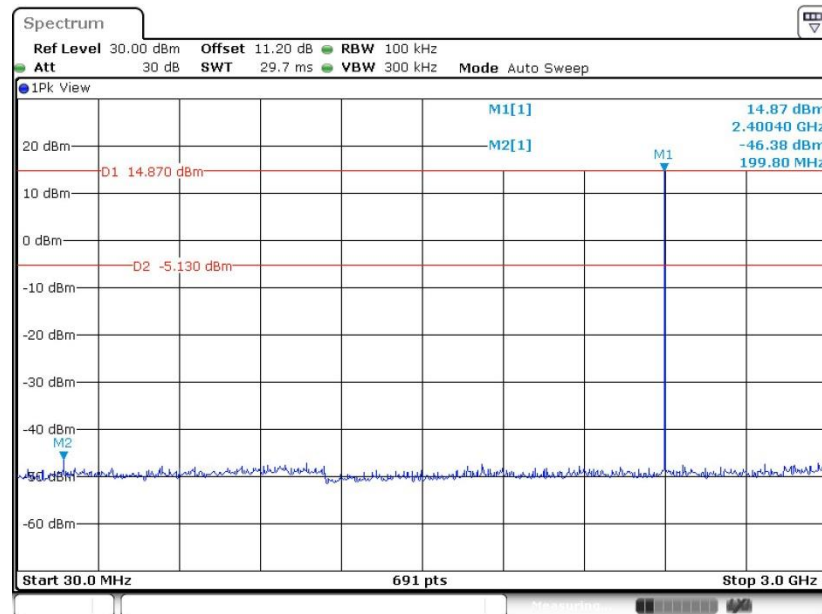


3.7.5 Test Result of Conducted Spurious Emission

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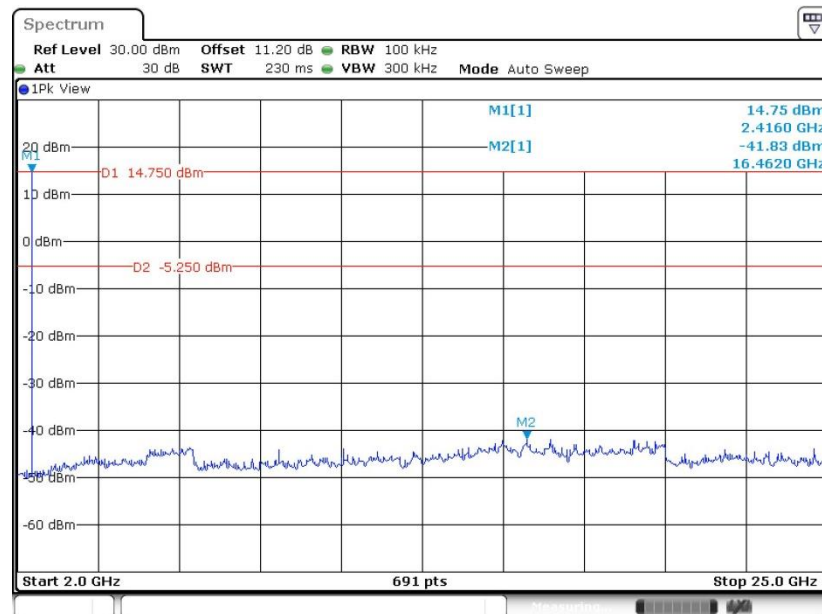
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 05:59:33

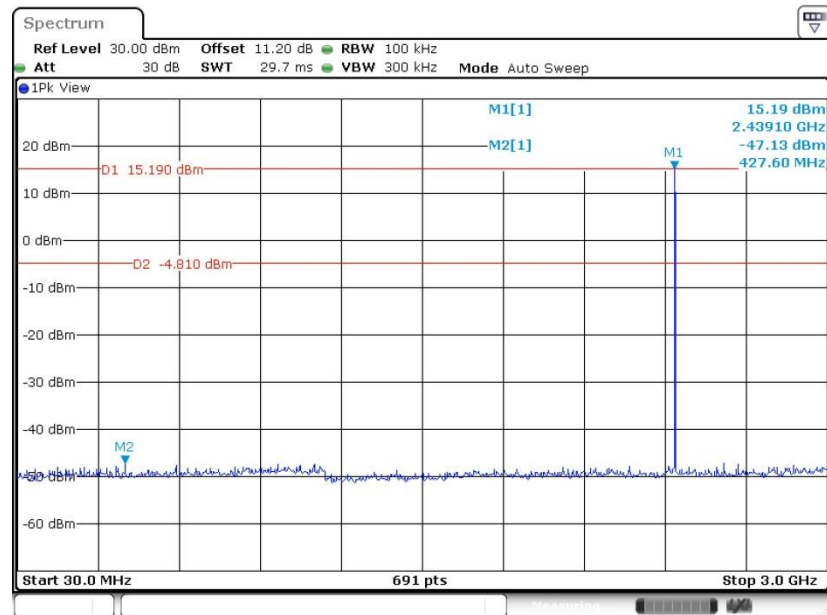
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 24.MAR.2023 06:00:21

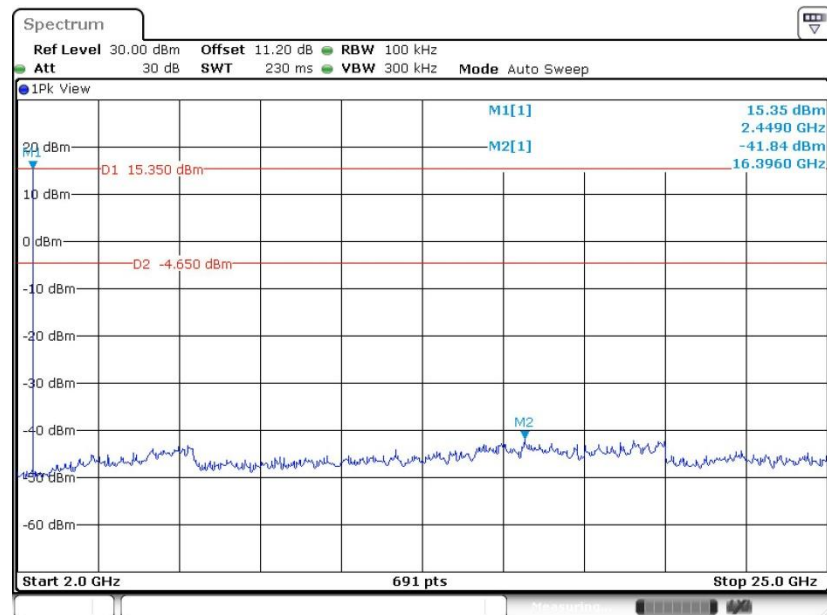


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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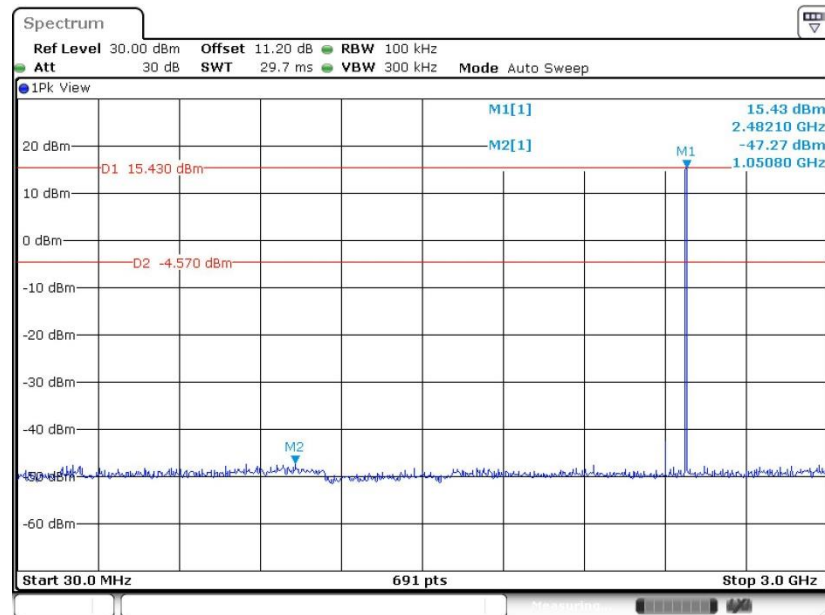
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 24.MAR.2023 06:04:50

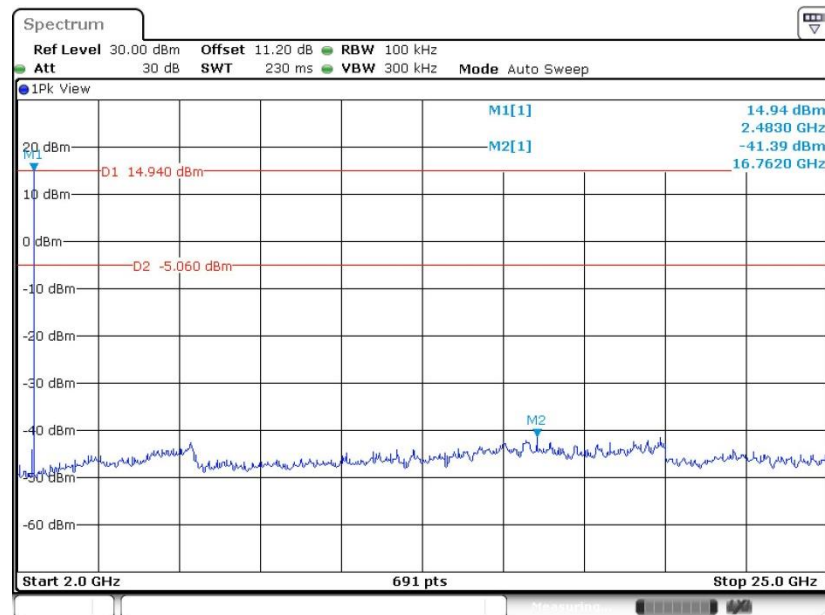


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 06:10:29

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

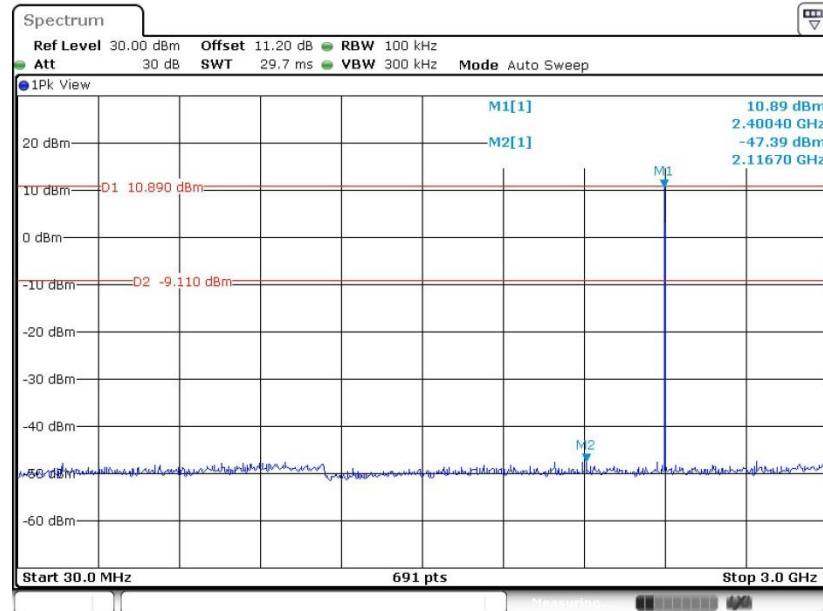


Date: 24.MAR.2023 06:11:19



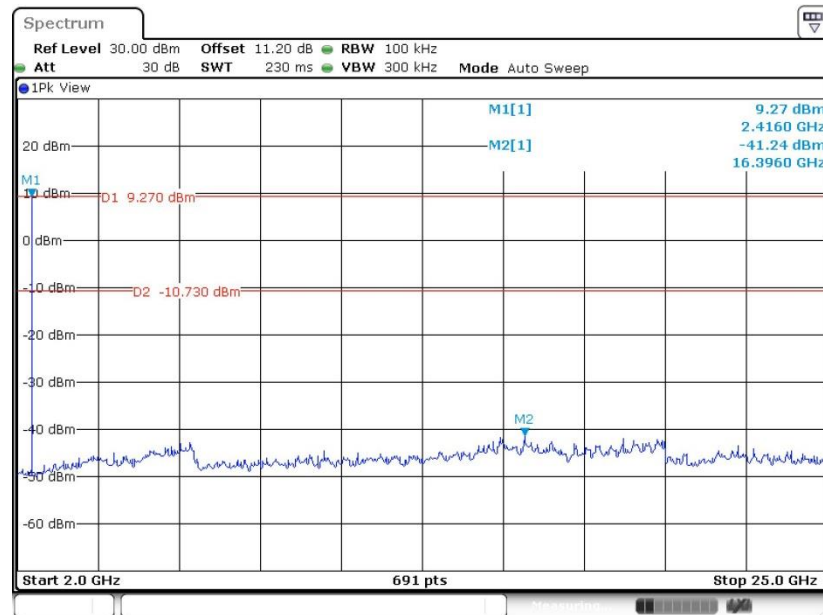
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 06:18:17

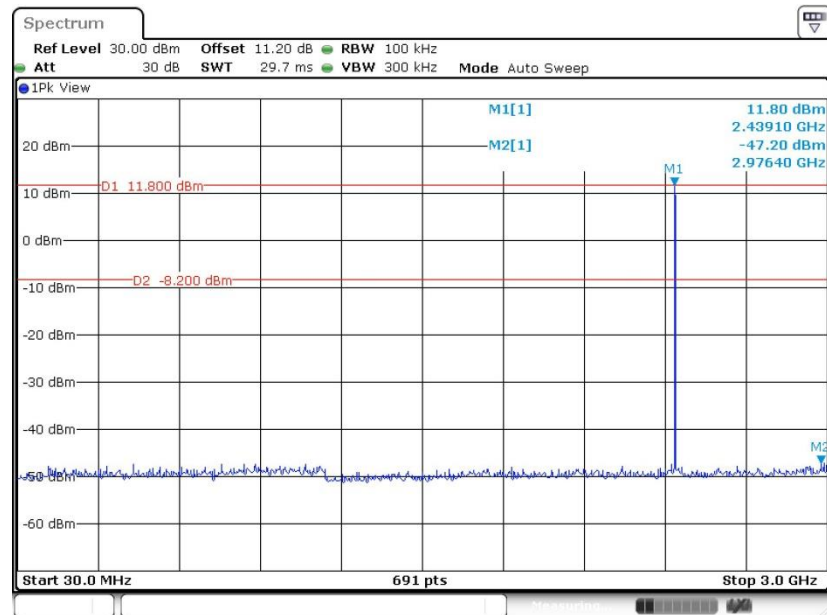
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



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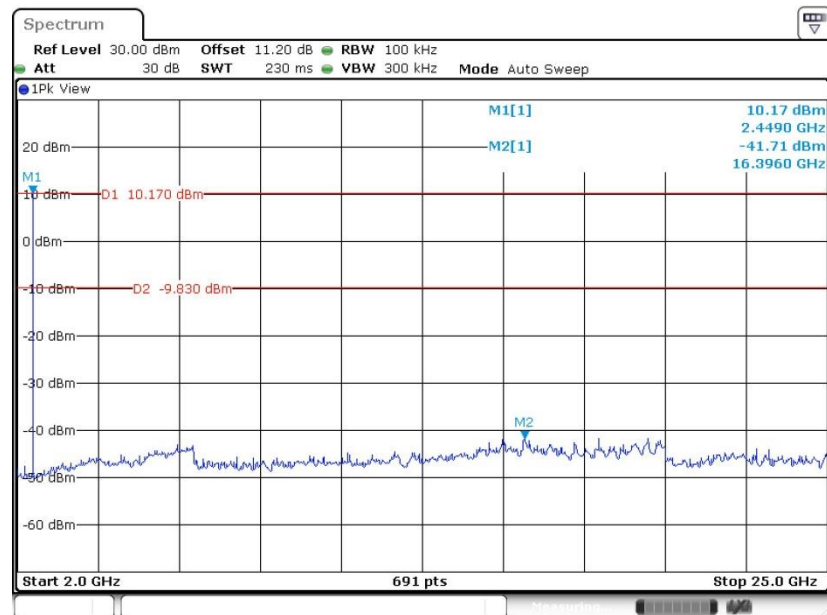


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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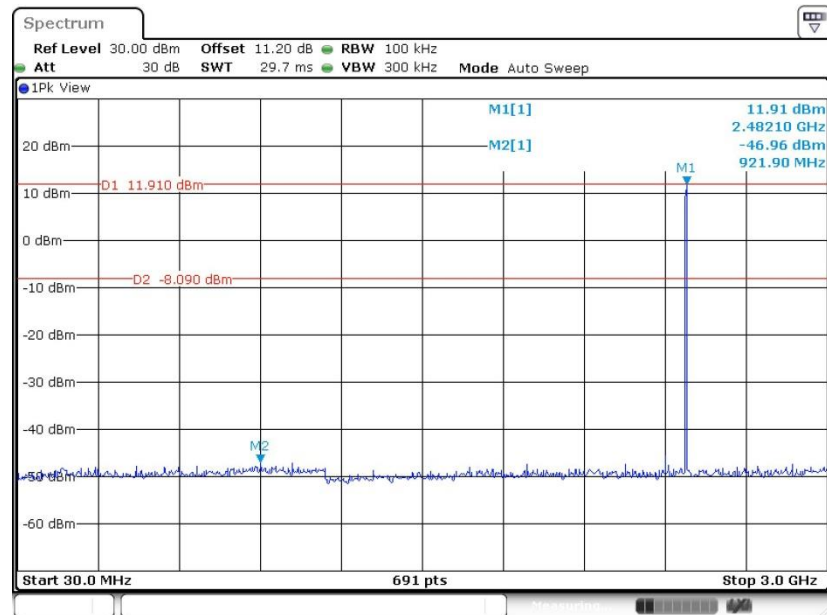
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



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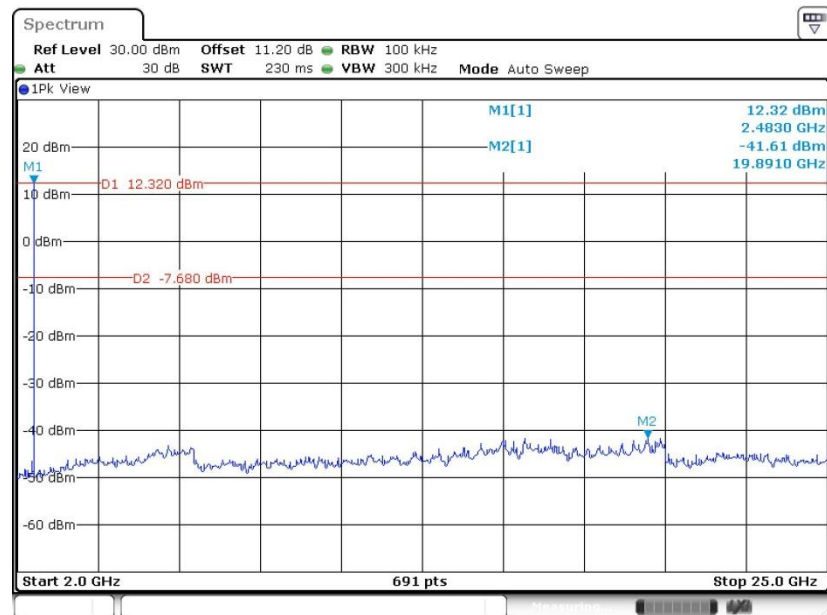


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 06:28:01

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

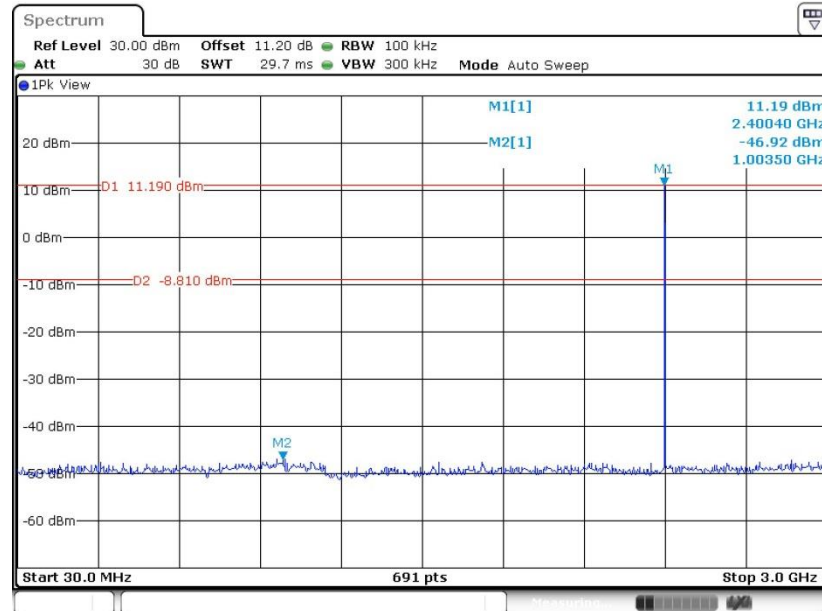


Date: 24.MAR.2023 06:28:41



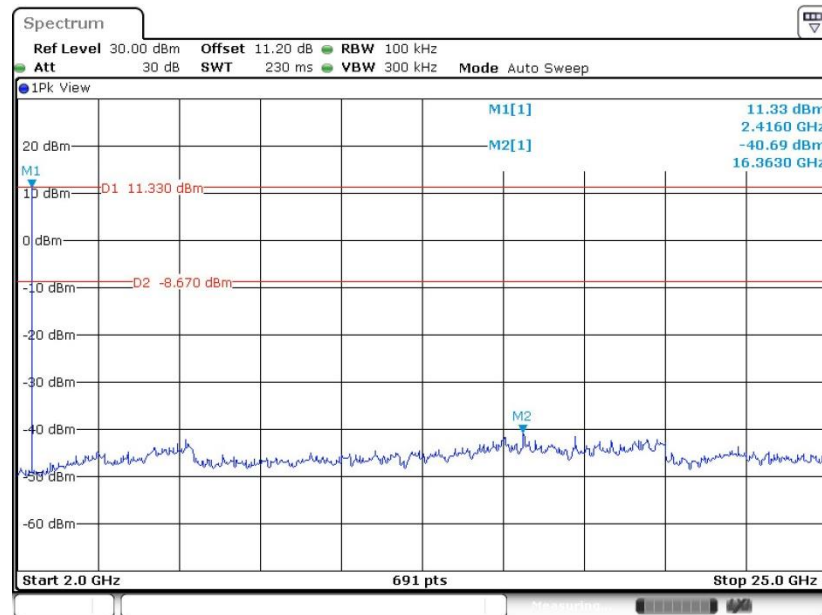
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 27.MAR.2023 10:41:55

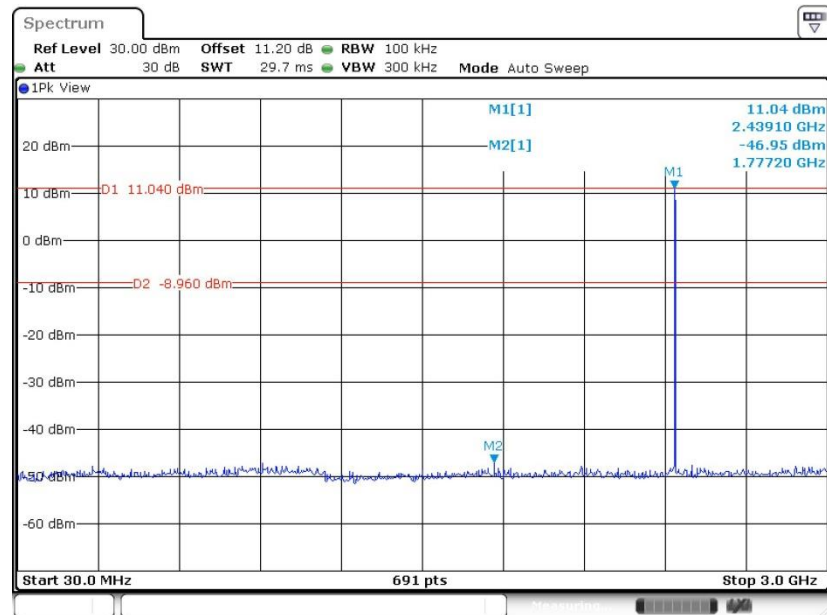
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 27.MAR.2023 10:42:24

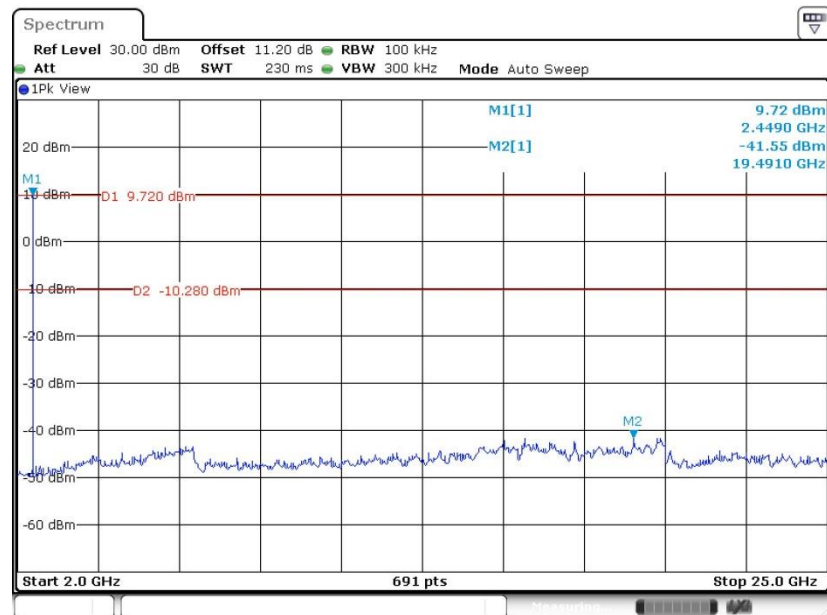


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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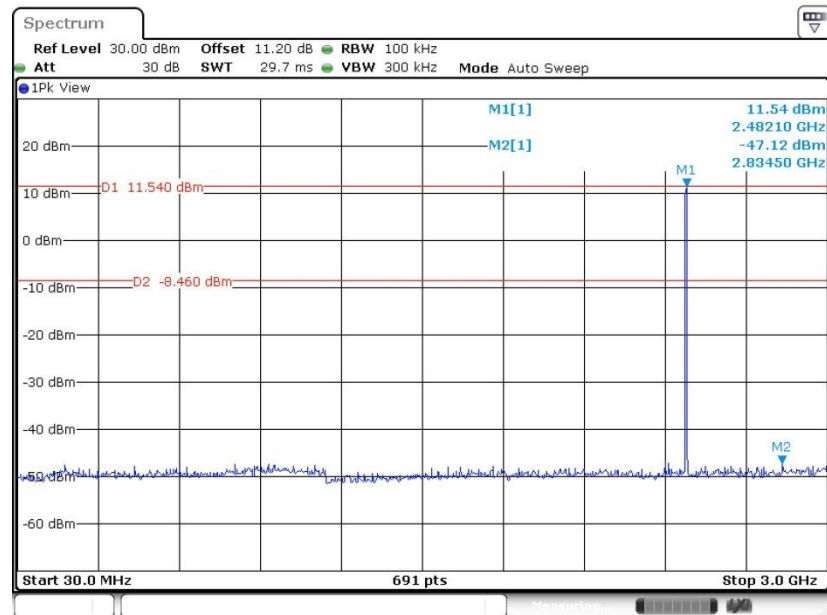
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 24.MAR.2023 06:39:42

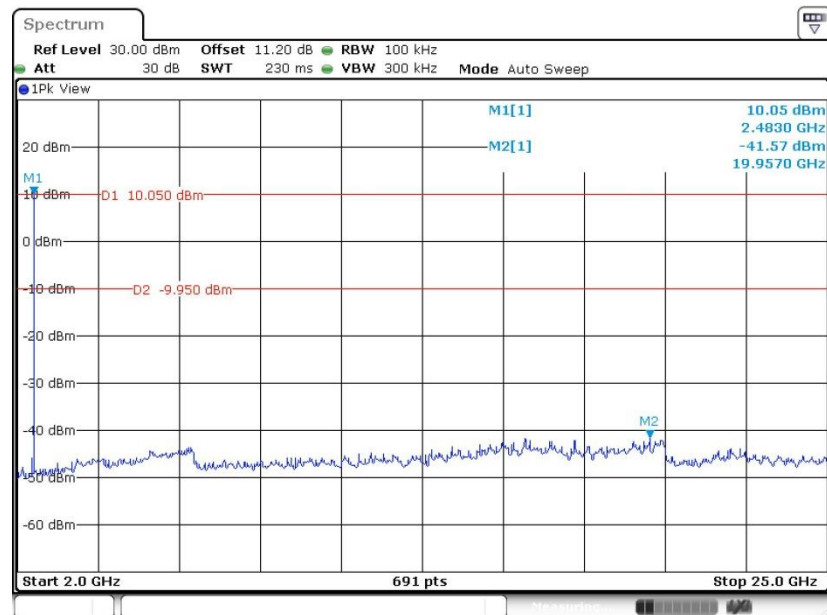


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 06:45:44

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



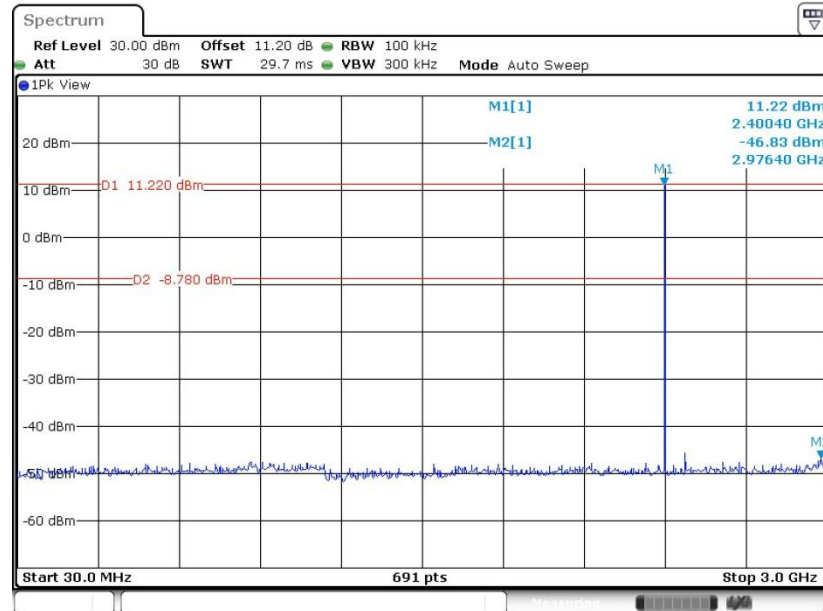
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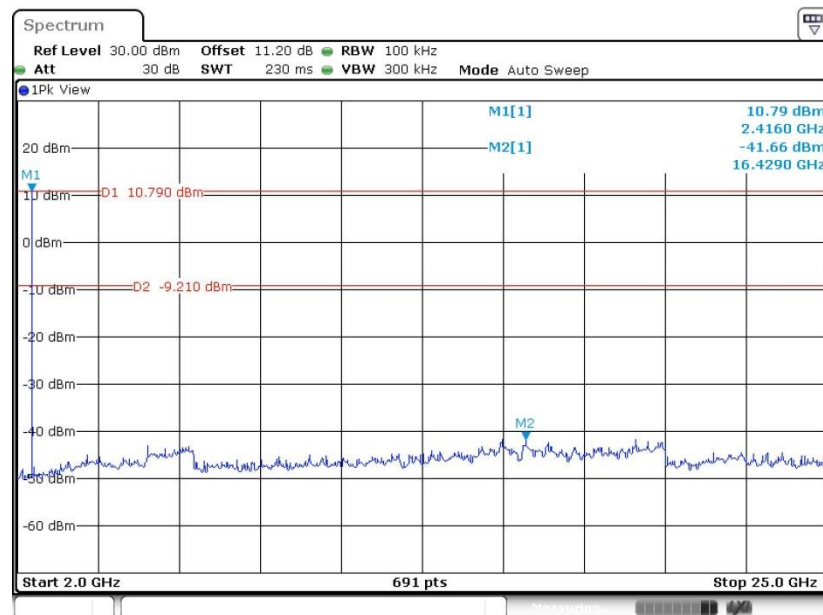
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



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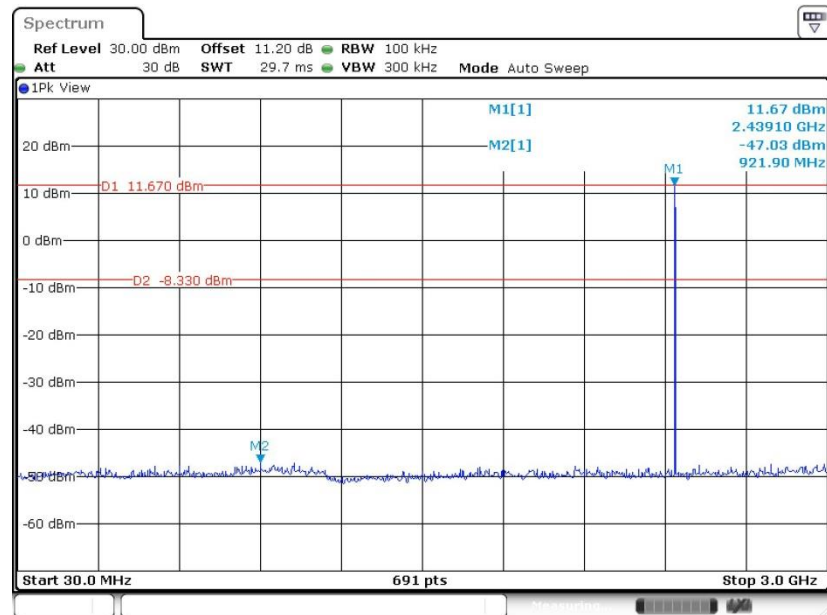
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



Date: 24.MAR.2023 07:27:20

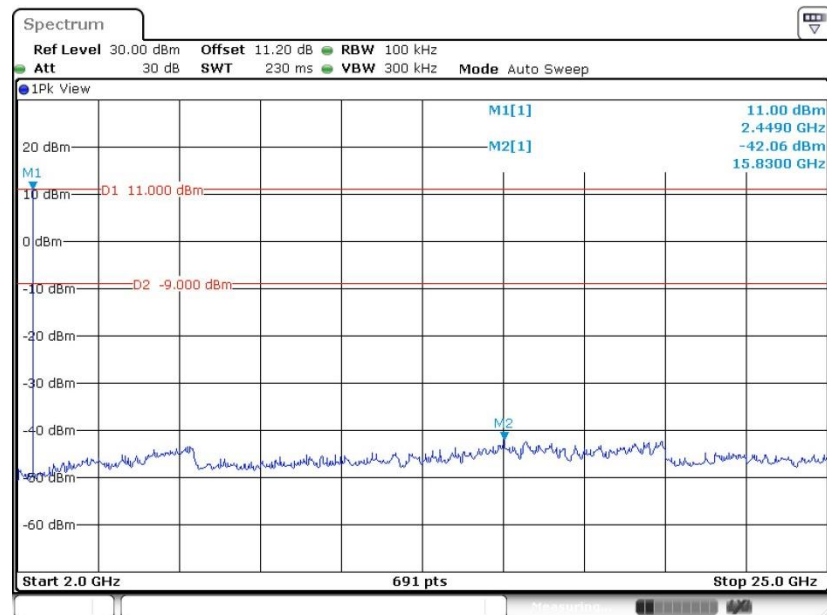


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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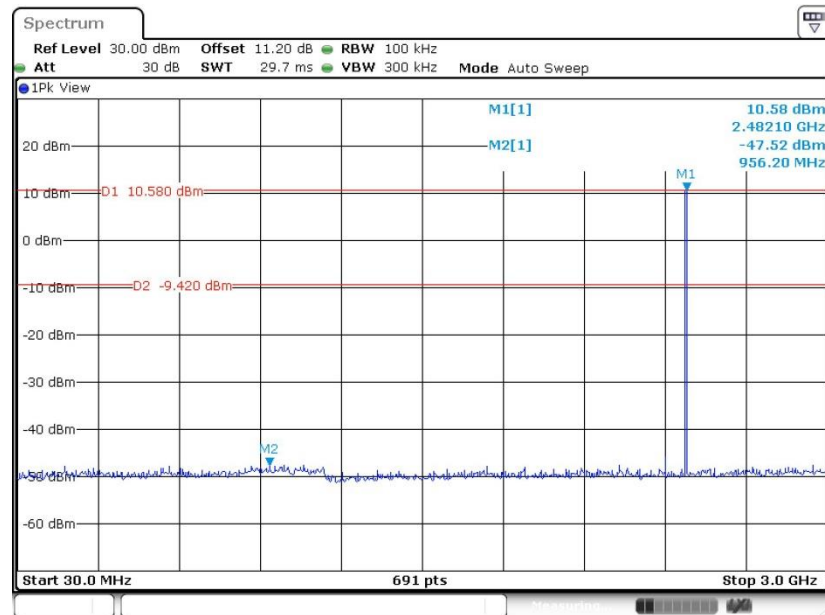
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



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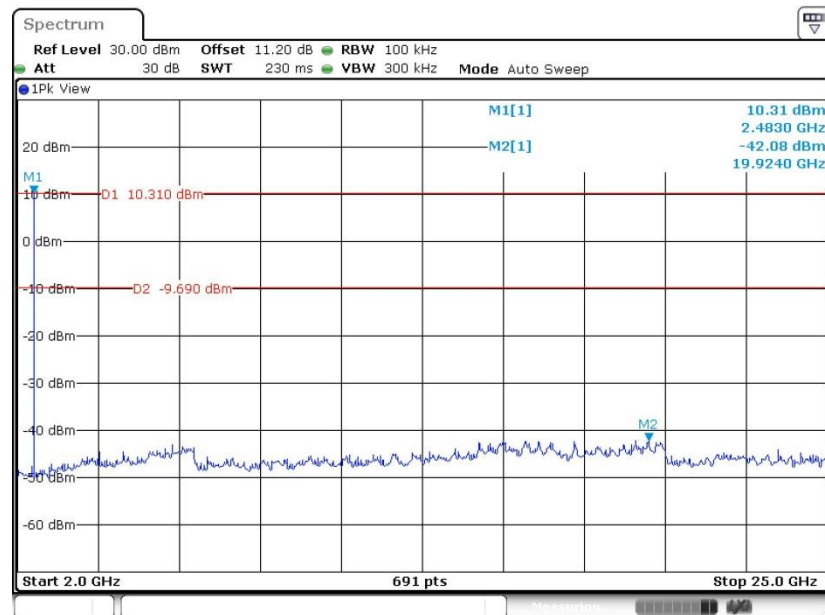


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 07:37:38

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

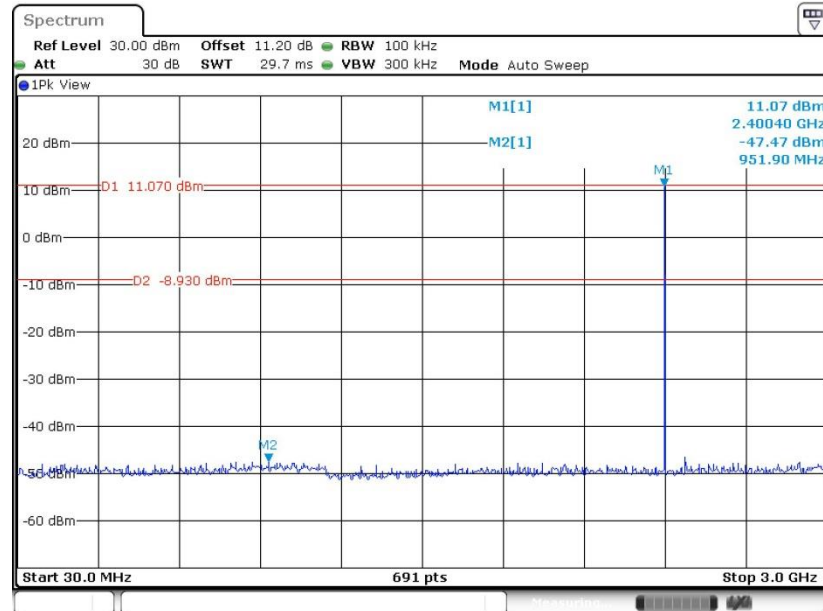


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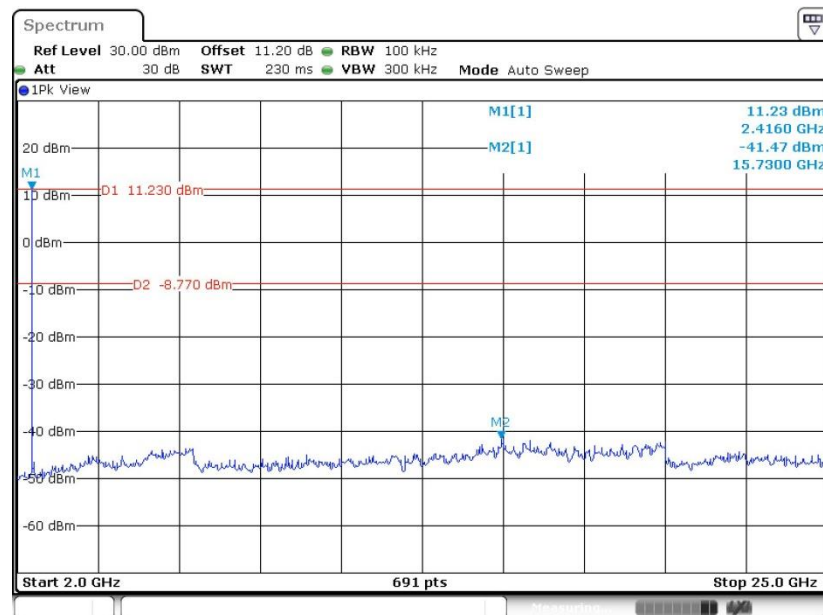
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



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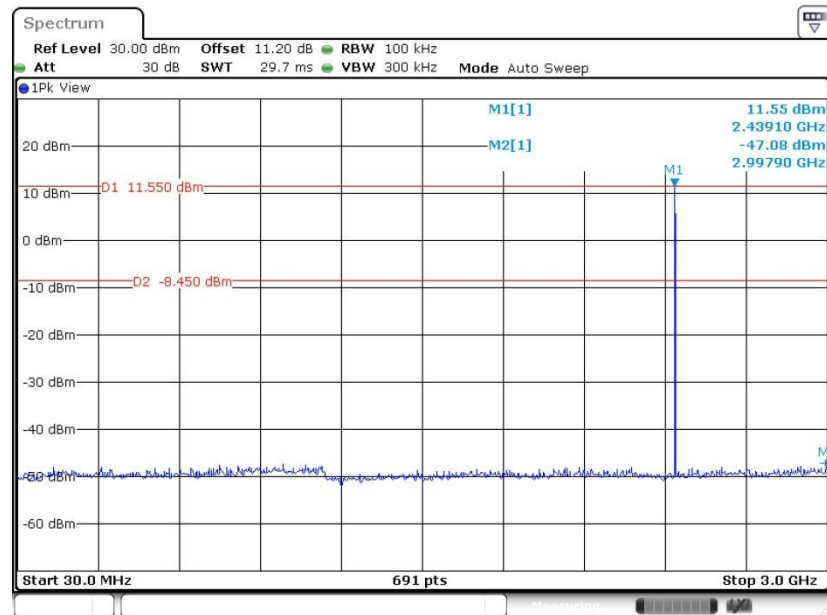
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



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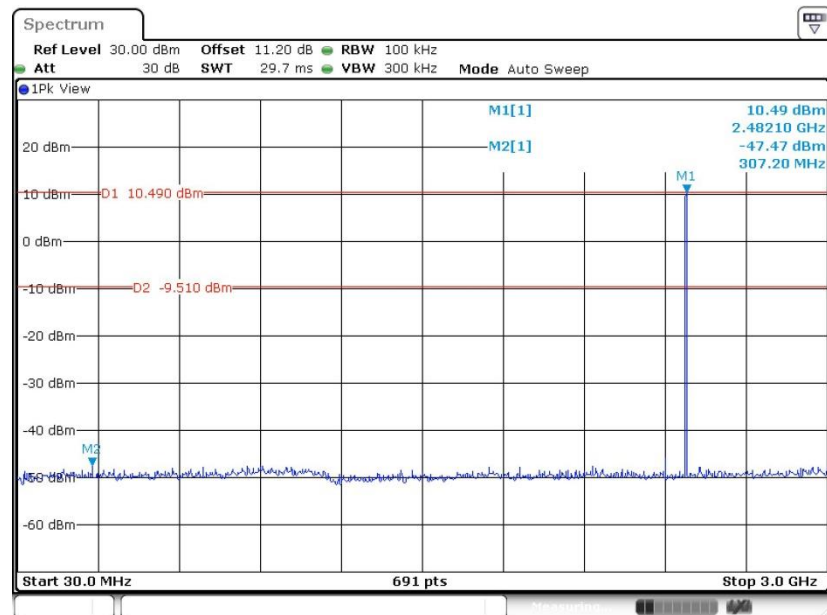


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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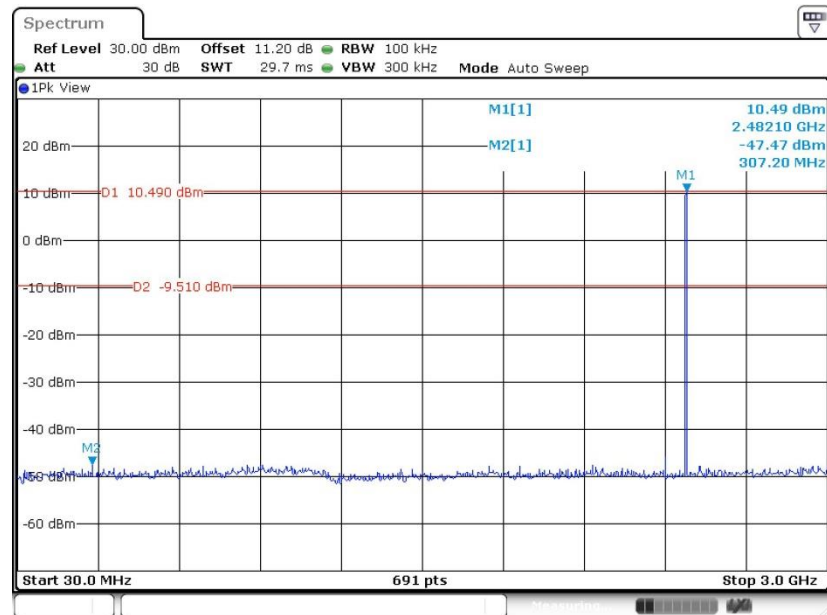
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 24.MAR.2023 07:53:21

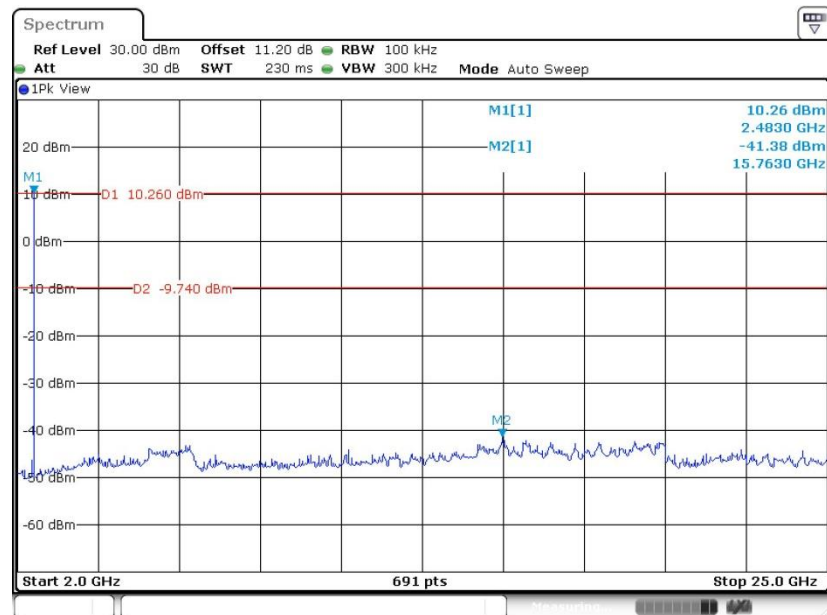


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 07:53:21

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

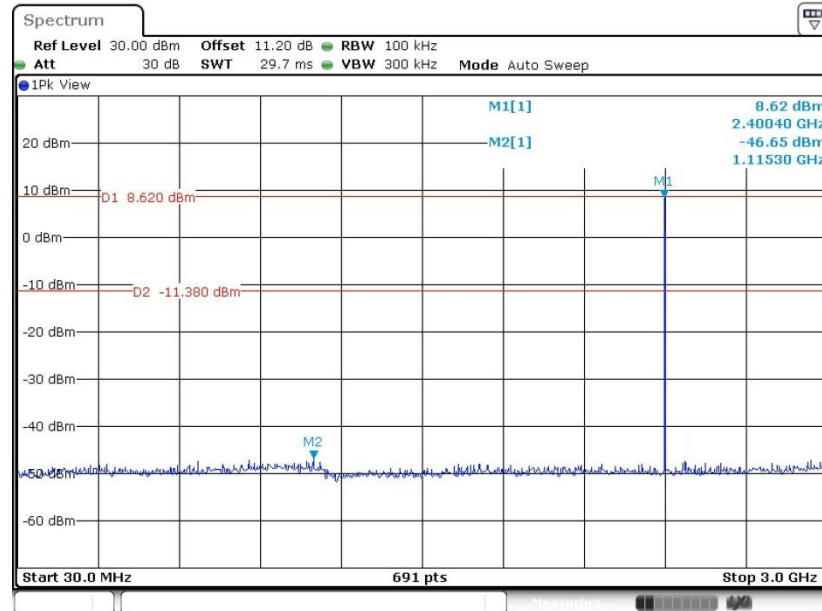


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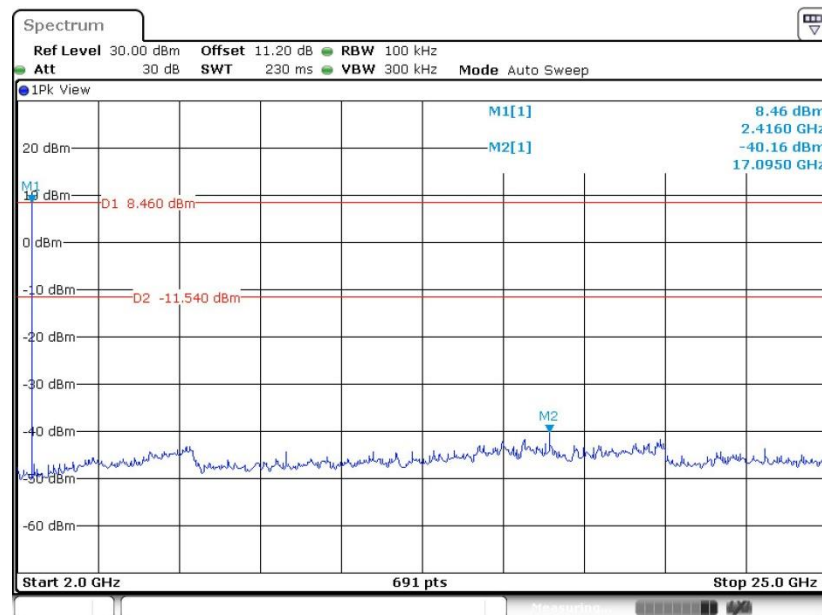
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 24.MAR.2023 07:59:03

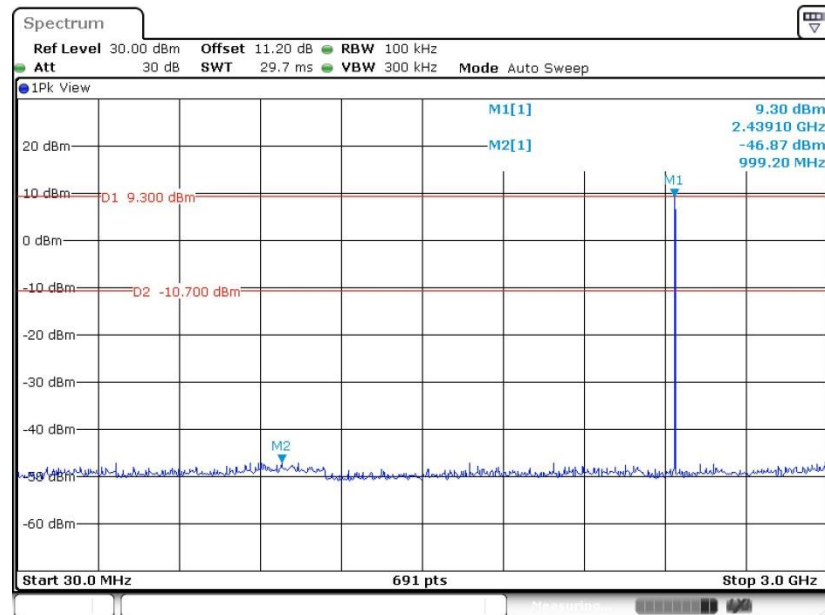
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



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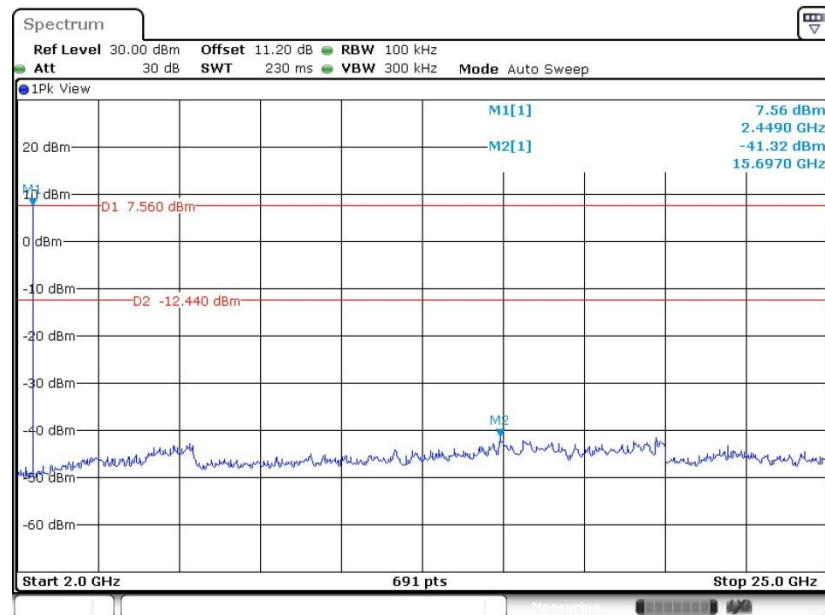


CSE Plot on Ch 39 between 30MHz ~ 3 GHz



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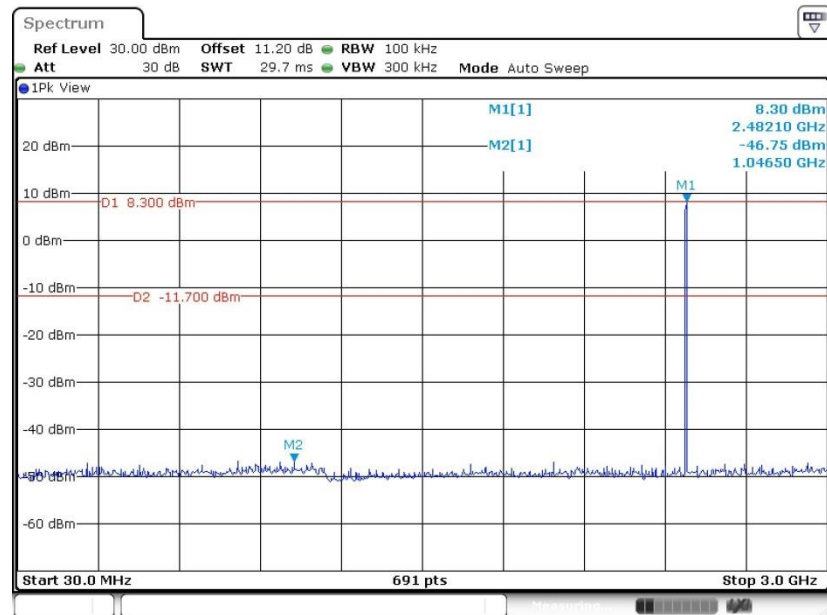
CSE Plot on Ch 39 between 2 GHz ~ 25 GHz



Date: 27.MAR.2023 10:30:45

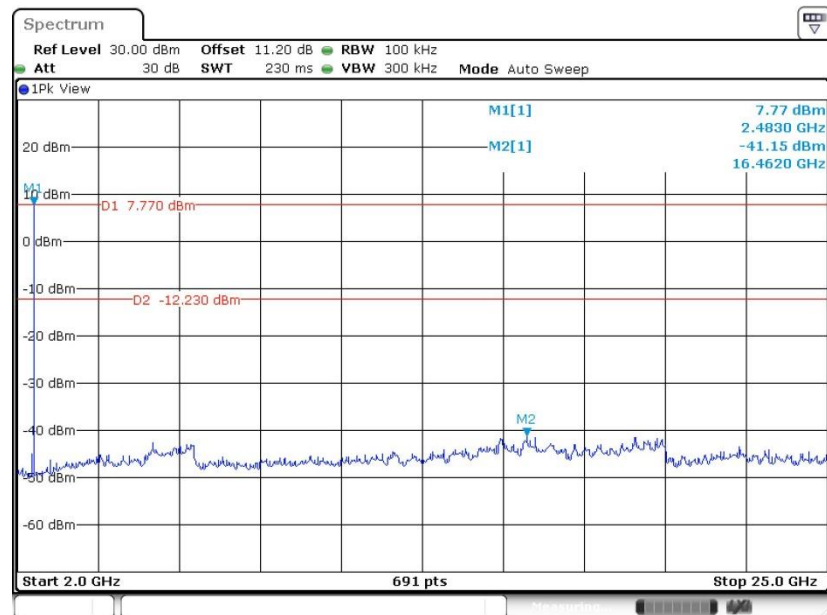


CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 27.MAR.2023 10:37:05

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 27.MAR.2023 10:37:34

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

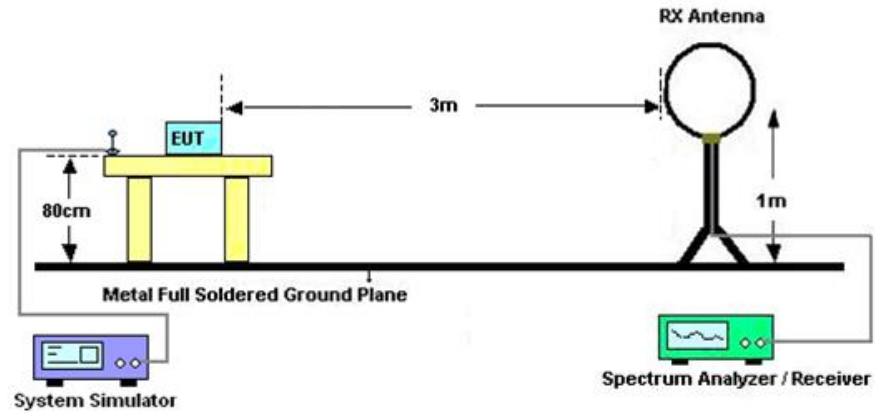
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

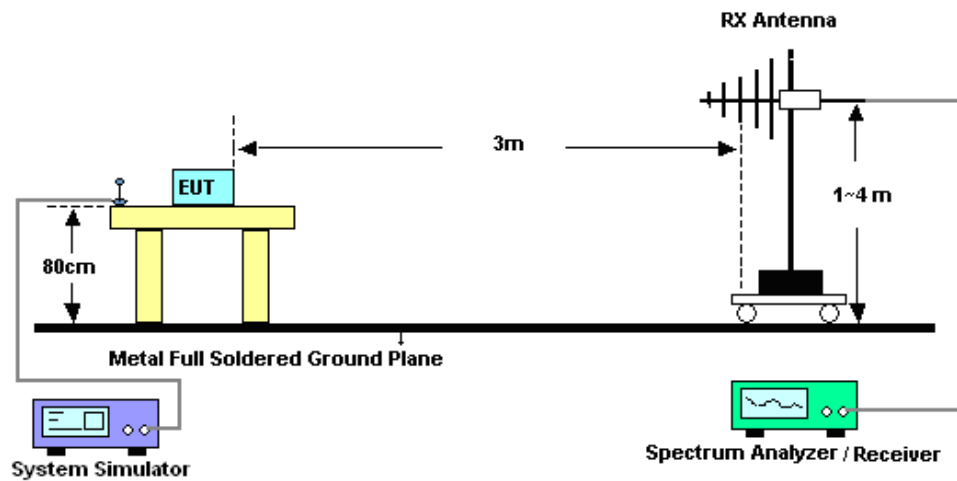
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from $20 \log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

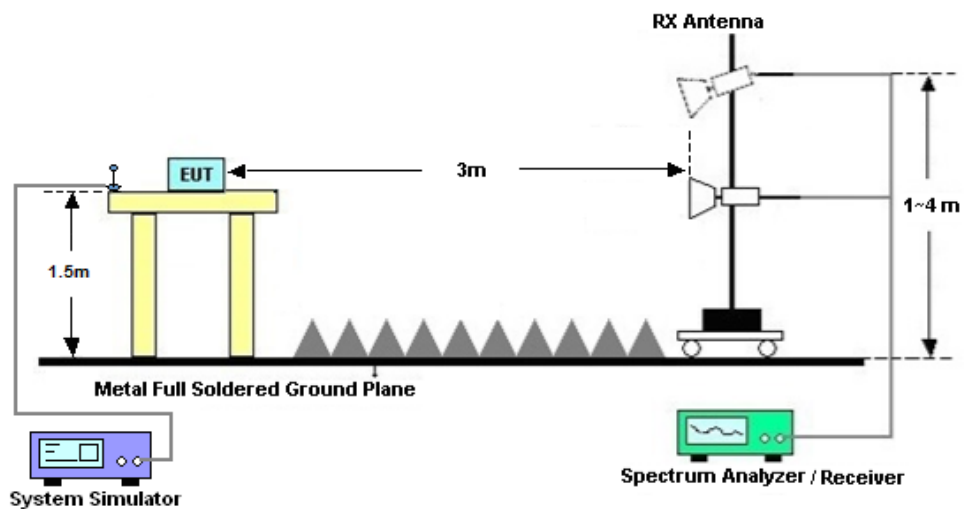
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

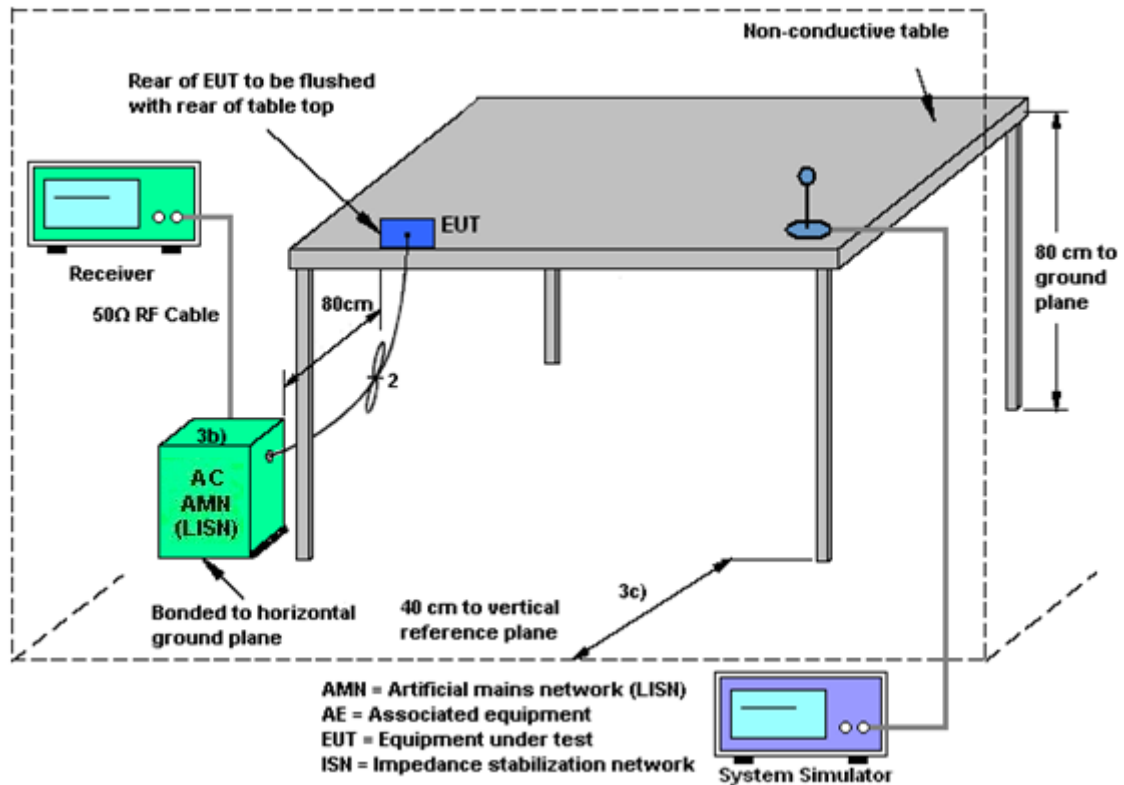
3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Mar. 09, 2023~ Mar. 31, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Mar. 09, 2023~ Mar. 31, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Mar. 09, 2023~ Mar. 31, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Apr. 03, 2023~ Apr. 06, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	Apr. 03, 2023~ Apr. 06, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Apr. 03, 2023~ Apr. 06, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul.07, 2022	Apr. 03, 2023~ Apr. 06, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec.26, 2022	Mar. 23, 2023~ Mar. 31, 2023	Dec.25, 2023	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Mar. 23, 2023~ Mar. 31, 2023	Jul. 06, 2023	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Mar. 23, 2023~ Mar. 31, 2023	Jun. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Mar. 23, 2023~ Mar. 31, 2023	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Mar. 23, 2023~ Mar. 31, 2023	Jul. 06, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr.19,2022	Mar. 23, 2023~ Mar. 31, 2023	Apr.09,2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	Mar. 23, 2023~ Mar. 31, 2023	Apr.05,2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct.19,2022	Mar. 23, 2023~ Mar. 31, 2023	Oct.18,2023	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct.19,2022	Mar. 23, 2023~ Mar. 31, 2023	Oct.18,2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Mar. 23, 2023~ Mar. 31, 2023	Jul. 05, 2023	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Nov.10.2022	Mar. 23, 2023~ Mar. 31, 2023	Nov.09.2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 23, 2023~ Mar. 31, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 23, 2023~ Mar. 31, 2023	NCR	Radiation (03CH01-SZ)
laser range finder	Dingxin Yi	D-40	#01	NA	Oct.09.2022	Mar. 23, 2023~ Mar. 31, 2023	Oct.08.2023	Radiation (03CH01-SZ)
Thermo meter	Anymetre	JR593	#2	- 10℃ ~ 50℃ 10%RH ~ 99%RH	Apr.12 .2023	Mar. 23, 2023~ Mar. 31, 2023	Apr.11.2024	Radiation (03CH01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.012 %

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB
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----- THE END -----



Appendix A. Conducted Test Results

Bluetooth ANT5

Test Engineer:	Ma Jie	Temperature:	21~25	°C
Test Date:	2023/3/09~2023/3/31	Relative Humidity:	51~54	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.938	0.839	0.999	0.6252	Pass
DH	1Mbps	1	39	2441	0.938	0.839	0.999	0.6252	Pass
DH	1Mbps	1	78	2480	0.938	0.842	0.999	0.6252	Pass
2DH	2Mbps	1	0	2402	1.285	1.175	0.999	0.8567	Pass
2DH	2Mbps	1	39	2441	1.311	1.178	1.003	0.8741	Pass
2DH	2Mbps	1	78	2480	1.316	1.172	0.999	0.8770	Pass
3DH	3Mbps	1	0	2402	1.298	1.175	1.003	0.8654	Pass
3DH	3Mbps	1	39	2441	1.298	1.178	1.003	0.8654	Pass
3DH	3Mbps	1	78	2480	1.294	1.178	0.999	0.8625	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Normal	79	106.67	2.8913	0.31	0.4	Pass
AFH	20	53.33	2.8913	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH5	0	1	16.90	20.97	Pass
	39	1	17.30	20.97	Pass
	78	1	17.40	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH5	0	1	15.60	20.97	Pass
	39	1	15.70	20.97	Pass
	78	1	16.30	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH5	0	1	15.90	20.97	Pass
	39	1	16.20	20.97	Pass
	78	1	16.50	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass

Bluetooth ANT6**TEST RESULTS DATA****20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	1.022	0.909	0.994	0.6811	Pass
DH	1Mbps	1	39	2441	0.964	0.883	1.003	0.6425	Pass
DH	1Mbps	1	78	2480	0.947	0.880	0.999	0.6310	Pass
2DH	2Mbps	1	0	2402	1.025	0.909	0.999	0.6831	Pass
2DH	2Mbps	1	39	2441	0.964	0.883	0.999	0.6425	Pass
2DH	2Mbps	1	78	2480	0.947	0.880	1.003	0.6310	Pass
3DH	3Mbps	1	0	2402	1.311	1.195	1.003	0.8741	Pass
3DH	3Mbps	1	39	2441	1.294	1.187	0.999	0.8625	Pass
3DH	3Mbps	1	78	2480	1.298	1.184	0.994	0.8654	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.8855	0.31	0.4	Pass
AFH	20	53.33	2.8855	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

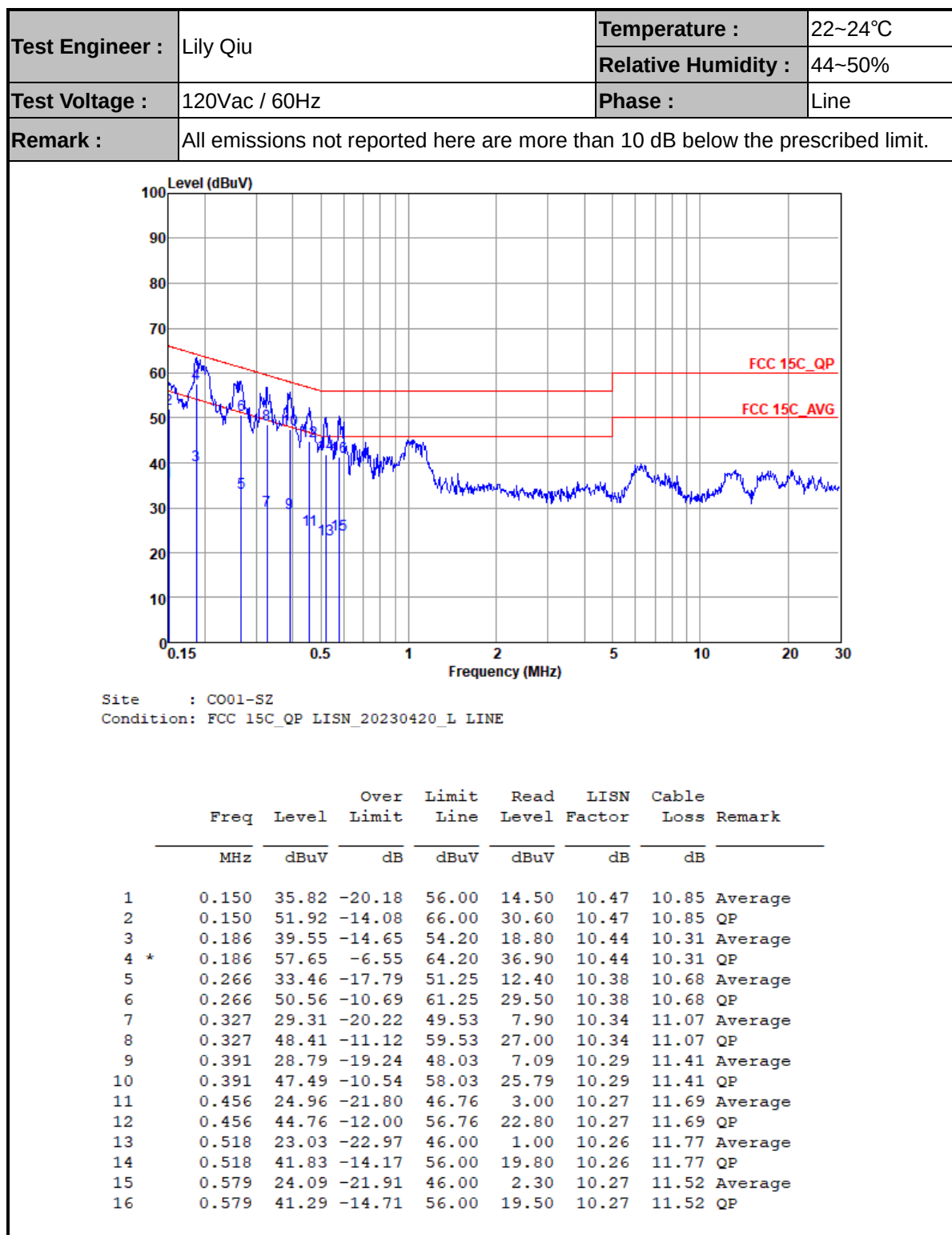
DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH5	0	1	12.80	20.97	Pass
	39	1	13.20	20.97	Pass
	78	1	12.10	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH5	0	1	12.50	20.97	Pass
	39	1	12.70	20.97	Pass
	78	1	11.50	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH5	0	1	12.60	20.97	Pass
	39	1	12.80	20.97	Pass
	78	1	11.60	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

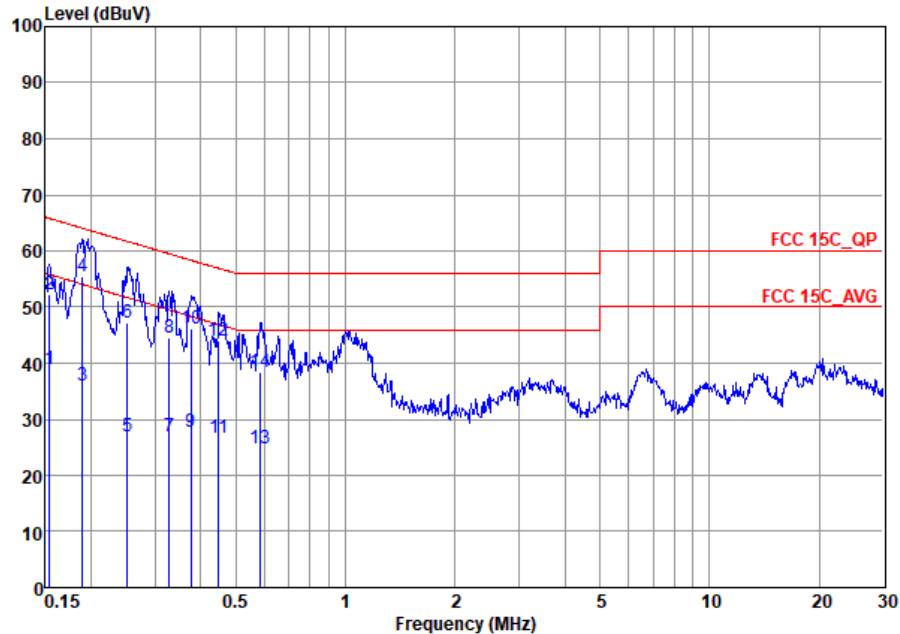
Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass



Appendix B. AC Conducted Emission Test Results



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.154	38.94	-16.84	55.78	17.70	10.45	10.79	Average
2	0.154	52.34	-13.44	65.78	31.10	10.45	10.79	QP
3	0.189	36.04	-18.02	54.06	15.40	10.37	10.27	Average
4 *	0.189	55.54	-8.52	64.06	34.90	10.37	10.27	QP
5	0.252	26.91	-24.78	51.69	6.00	10.32	10.59	Average
6	0.252	47.21	-14.48	61.69	26.30	10.32	10.59	QP
7	0.329	27.06	-22.43	49.49	5.70	10.27	11.09	Average
8	0.329	44.46	-15.03	59.49	23.10	10.27	11.09	QP
9	0.377	27.68	-20.66	48.34	6.10	10.25	11.33	Average
10	0.377	46.18	-12.16	58.34	24.60	10.25	11.33	QP
11	0.449	26.79	-20.10	46.89	4.90	10.23	11.66	Average
12	0.449	44.09	-12.80	56.89	22.20	10.23	11.66	QP
13	0.585	24.91	-21.09	46.00	3.20	10.23	11.48	Average
14	0.585	38.51	-17.49	56.00	16.80	10.23	11.48	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C Radiated Spurious Emission Test Data

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	5	Bluetooth	00	2402	(1DH5)	-
Mode 2	2400-2483.5	5	Bluetooth	39	2441	(1DH5)	-
Mode 3	2400-2483.5	5	Bluetooth	78	2480	(1DH5)	-
Mode 4	2400-2483.5	5	Bluetooth	78	2480	(1DH5)	LF
Mode 5	2400-2483.5	6	Bluetooth	00	2402	(1DH5)	-
Mode 6	2400-2483.5	6	Bluetooth	39	2441	(1DH5)	-
Mode 7	2400-2483.5	6	Bluetooth	78	2480	(1DH5)	-
Mode 8	2400-2483.5	6	Bluetooth	78	2480	(1DH5)	LF



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth	00	2389.67	51.02	74.00	-22.98	V	Peak	Pass	Band Edge
	Bluetooth	00	4804.00	46.83	74.00	-27.17	V	Peak	Pass	Harmonic
2	Bluetooth	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth	39	7323.00	47.80	74.00	-26.20	H	Peak	Pass	Harmonic
3	Bluetooth	78	2483.60	60.35	74.00	-13.65	H	Peak	Pass	Band Edge
	Bluetooth	78	7440.00	47.38	74.00	-26.62	H	Peak	Pass	Harmonic
4	Bluetooth	78	86.26	31.6	40	-8.4	V	Peak	Pass	LF
5	Bluetooth	00	2363.73	50.41	74.00	-23.59	H	Peak	Pass	Band Edge
	Bluetooth	00	4804.00	46.40	74.00	-27.60	V	Peak	Pass	Harmonic
6	Bluetooth	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth	39	7323.00	47.24	74.00	-26.76	H	Peak	Pass	Harmonic
7	Bluetooth	78	2483.54	53.67	74.00	-20.33	H	Peak	Pass	Band Edge
	Bluetooth	78	7440.00	47.13	74.00	-26.87	V	Peak	Pass	Harmonic
8	Bluetooth	78	84.32	32.03	40	-7.97	V	Peak	Pass	LF