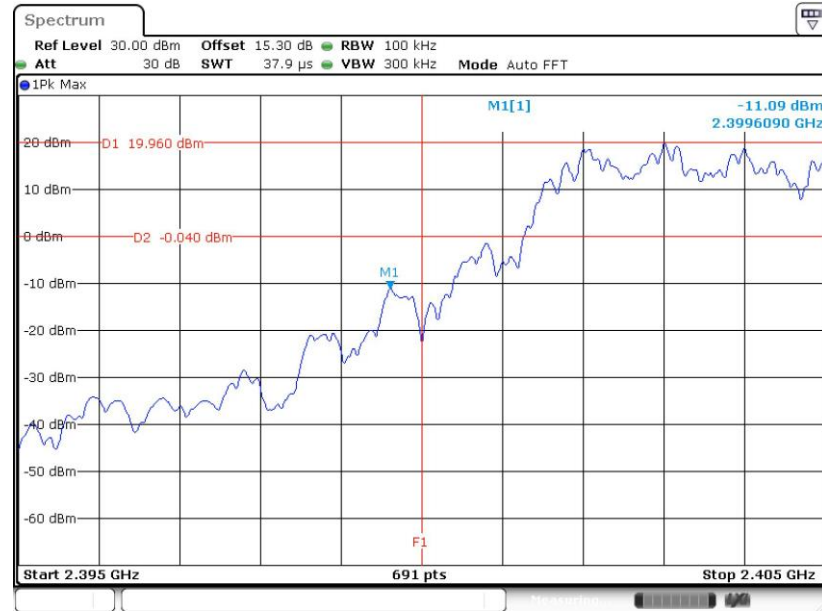




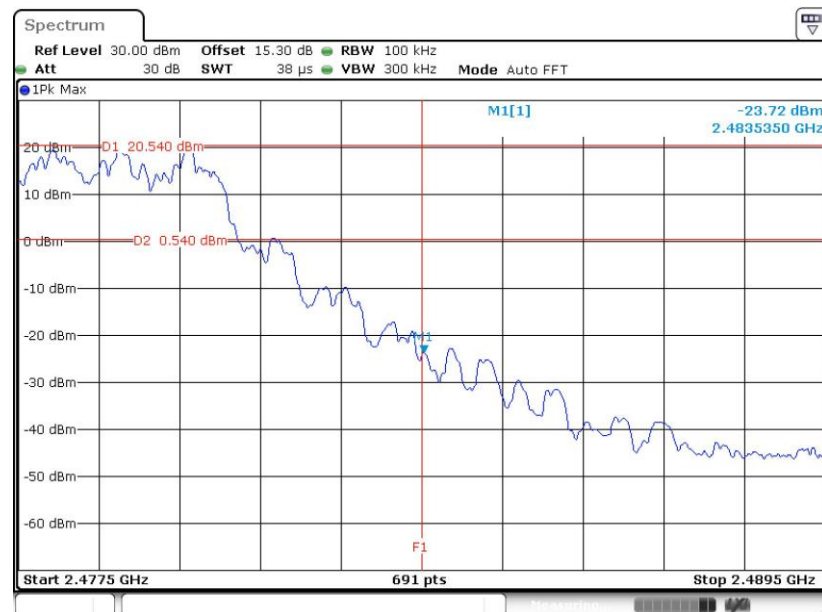
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Hopping Mode Low Band Edge Plot



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Hopping Mode High Band Edge Plot

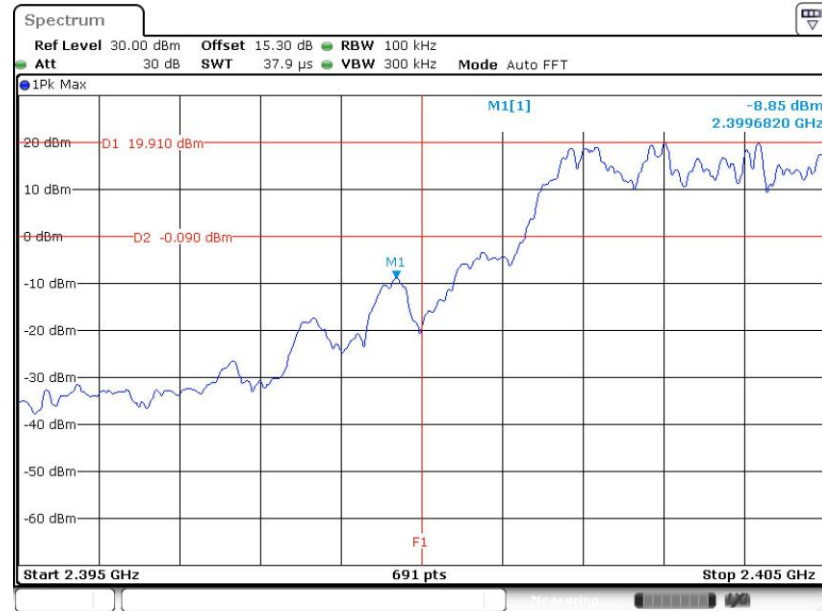


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Hopping Mode High Band Edge Plot



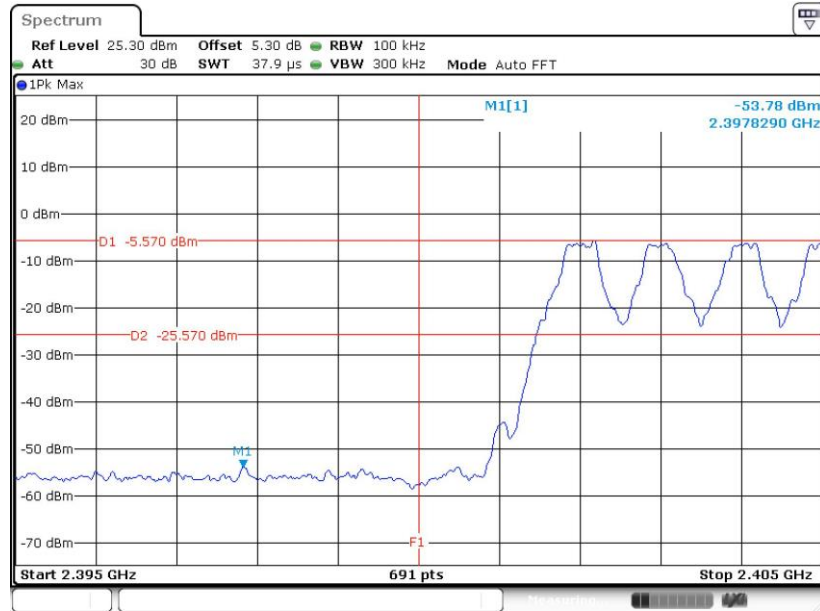
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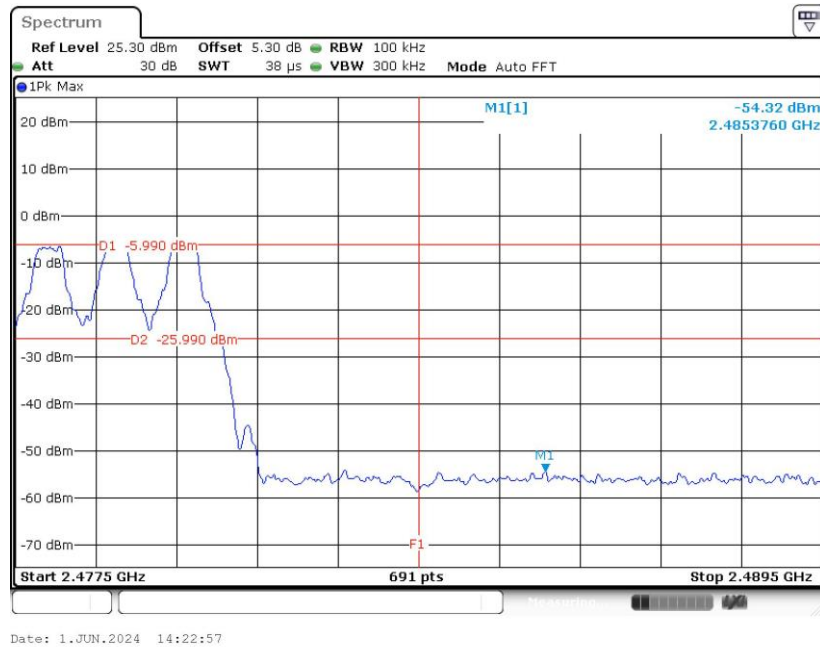
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Hopping Mode Low Band Edge Plot



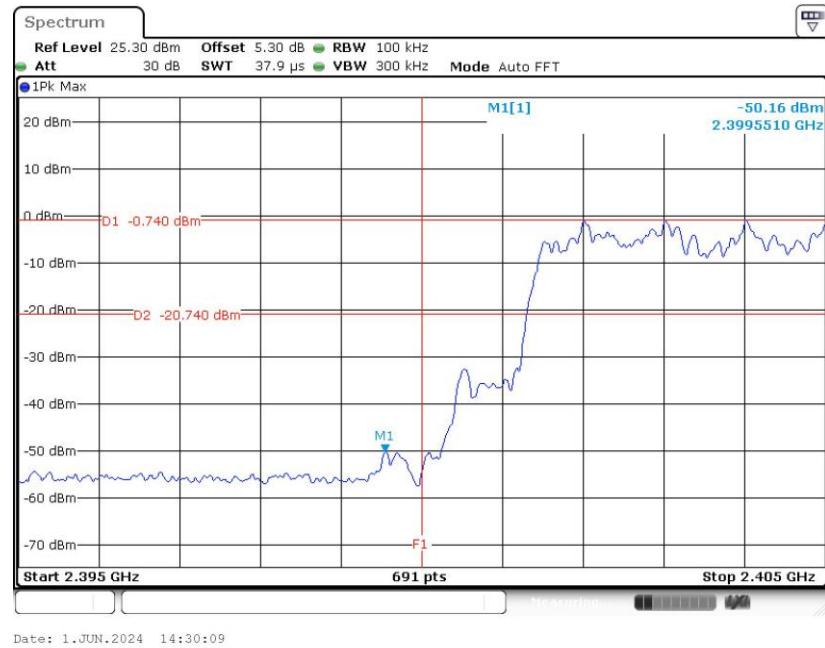
Hopping Mode High Band Edge Plot



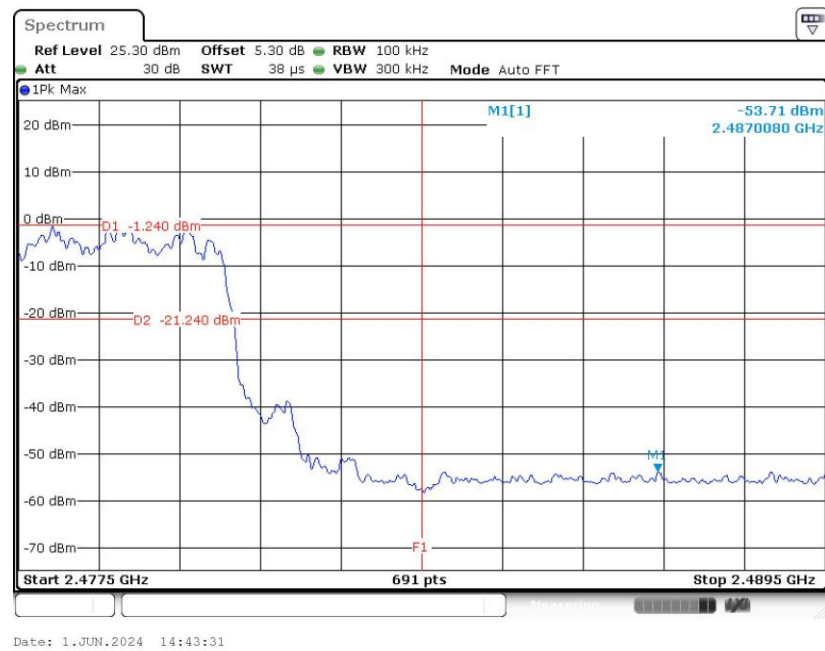


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Hopping Mode Low Band Edge Plot



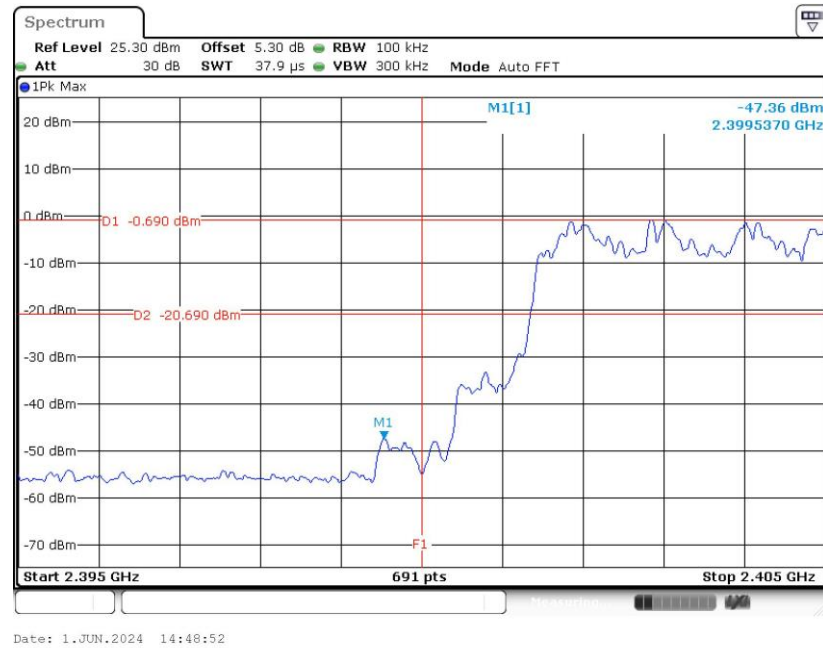
Hopping Mode High Band Edge Plot



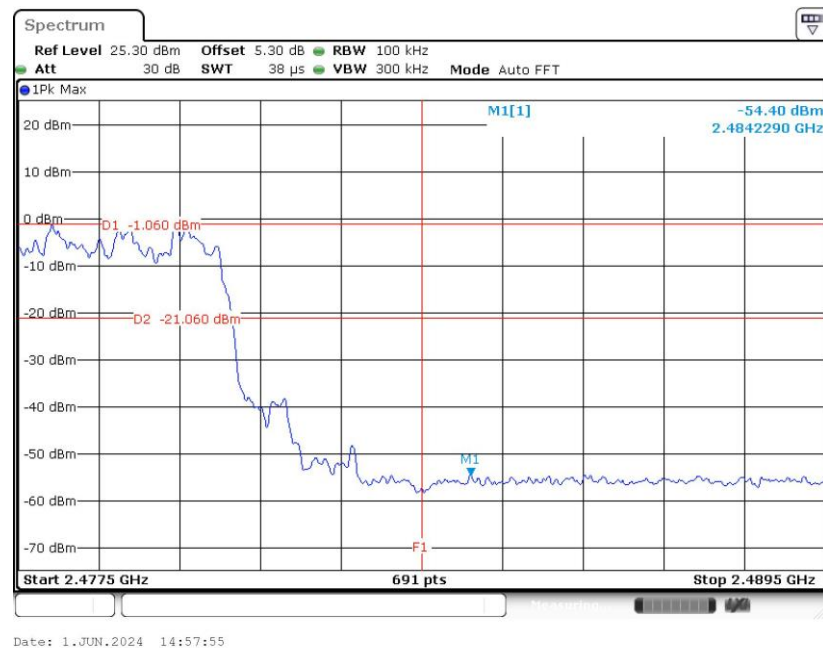


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Hopping Mode Low Band Edge Plot



Hopping Mode High Band Edge Plot



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.

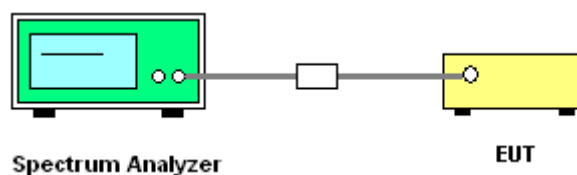
3.7.2 Measuring Instruments

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



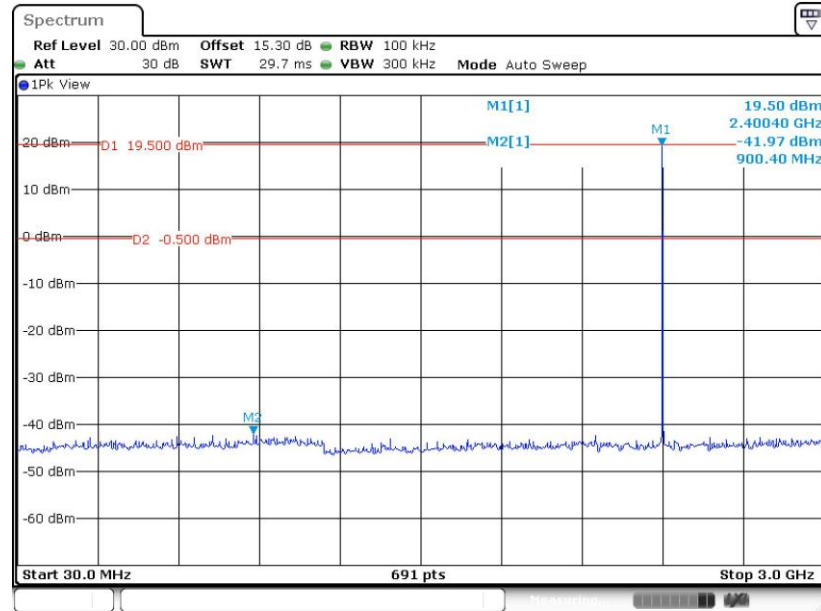


3.7.5 Test Result of Conducted Spurious Emission

Ant 2

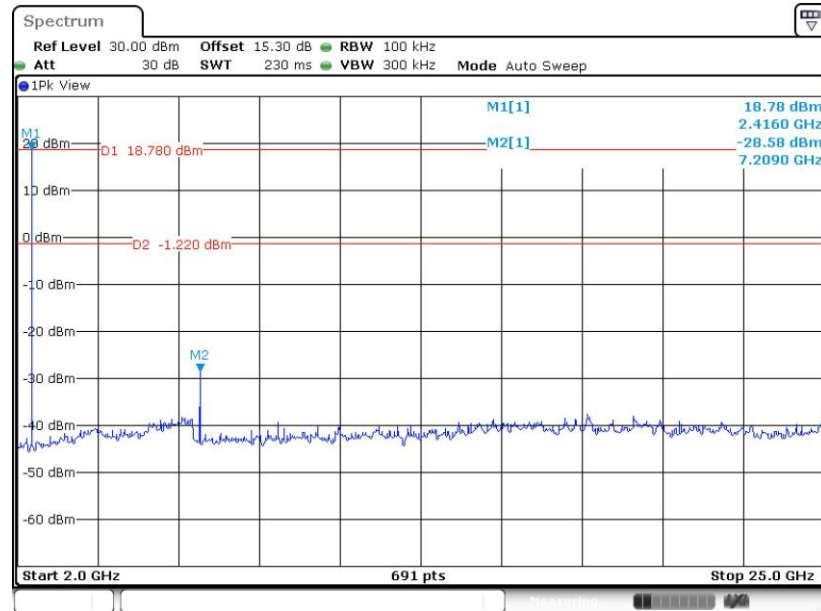
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CSE Plot on Ch 00



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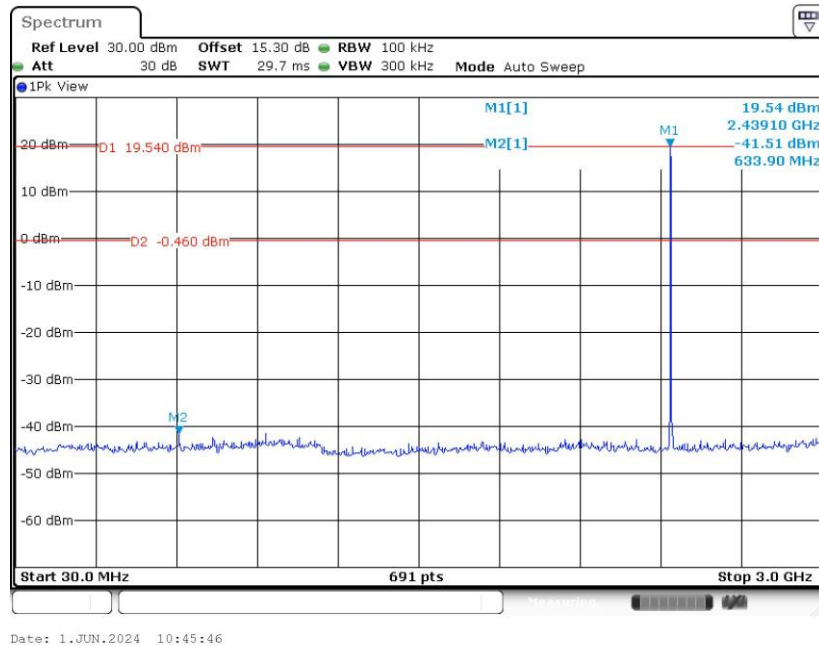
CSE Plot on Ch 00



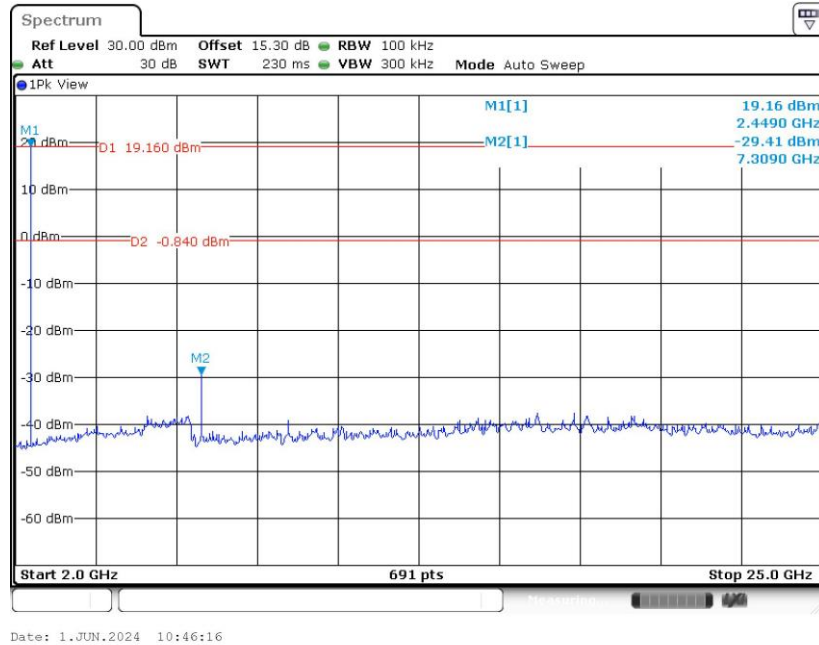
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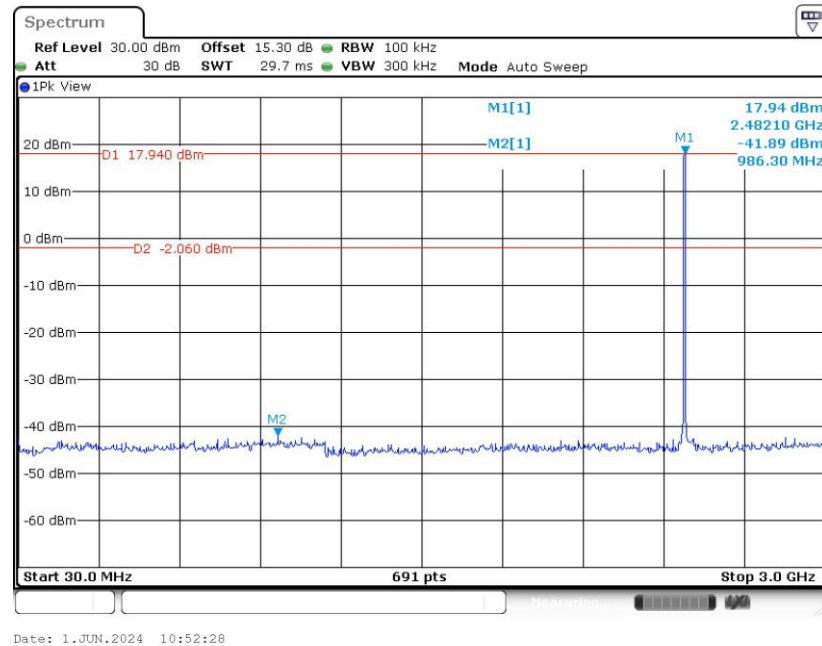
CSE Plot on Ch 39



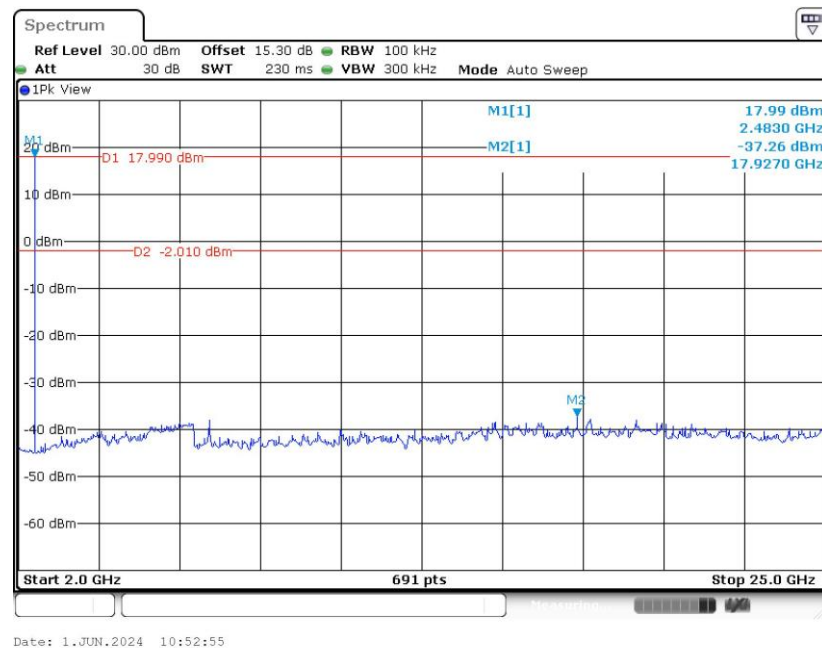
CSE Plot on Ch 39



CSE Plot on Ch 78

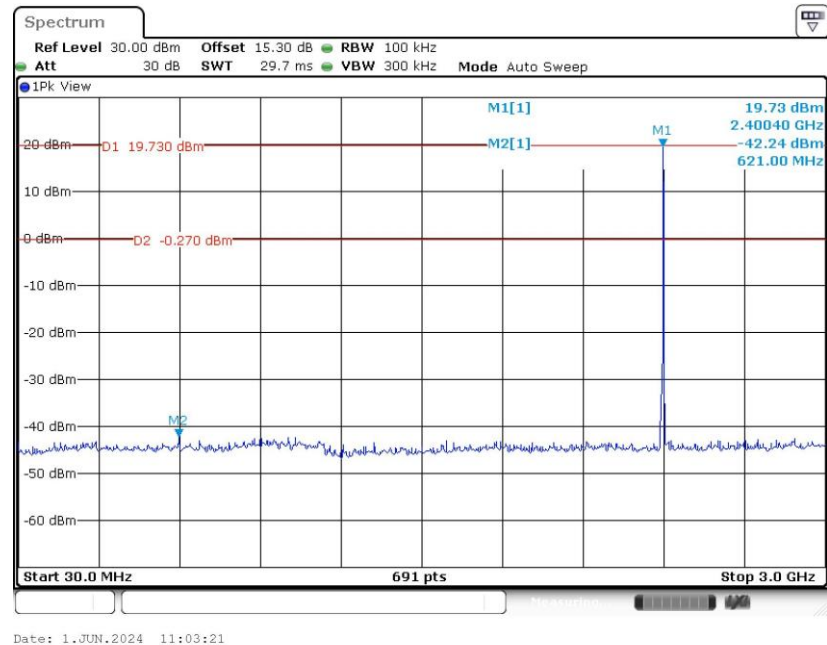


CSE Plot on Ch 78

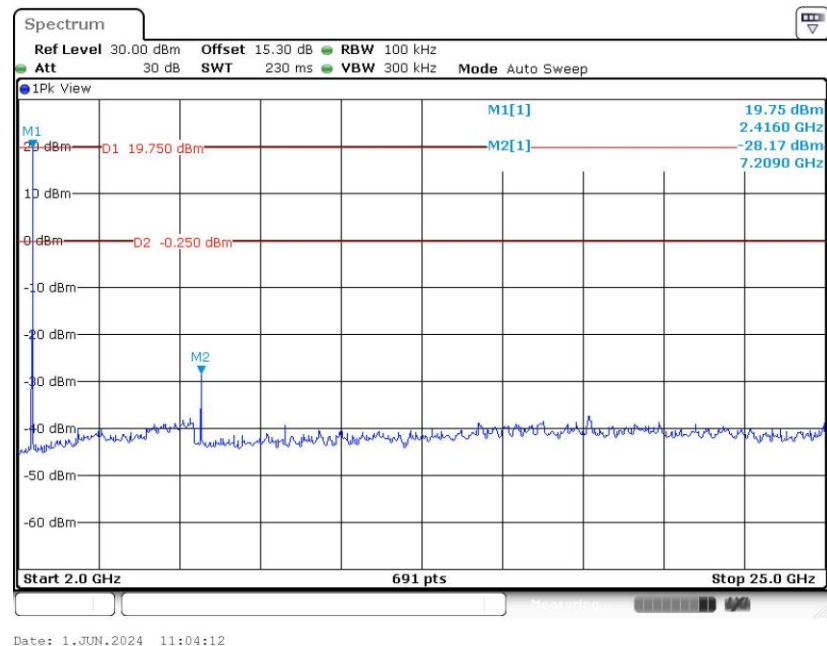


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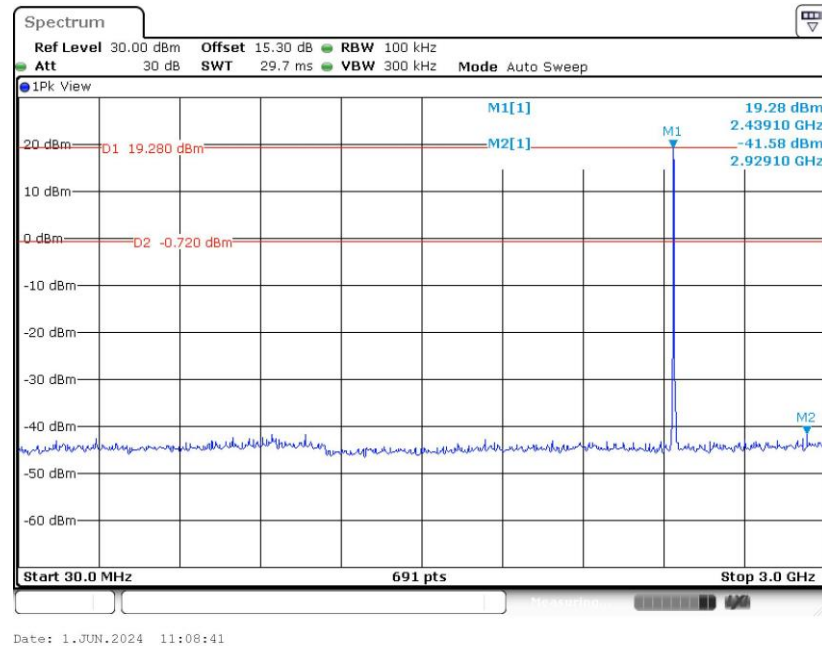


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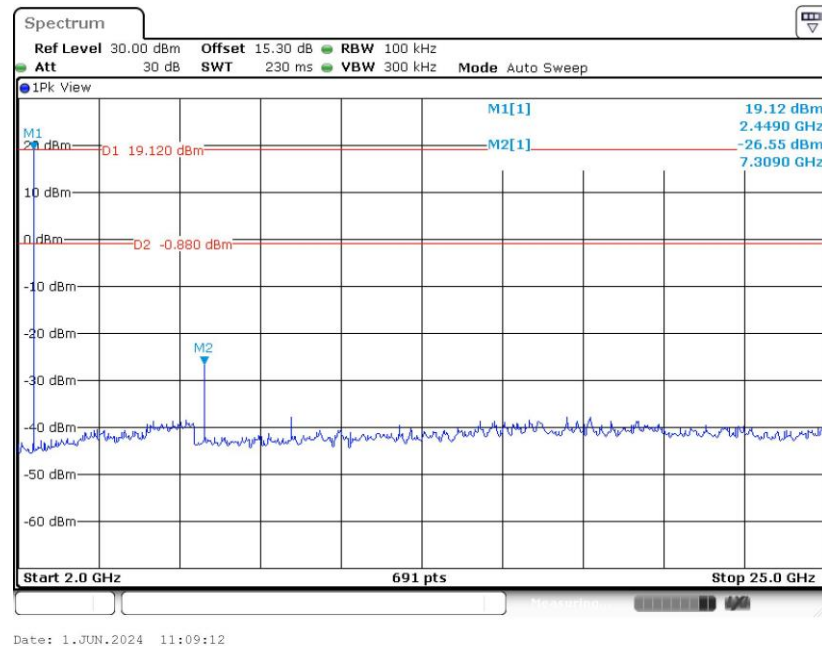




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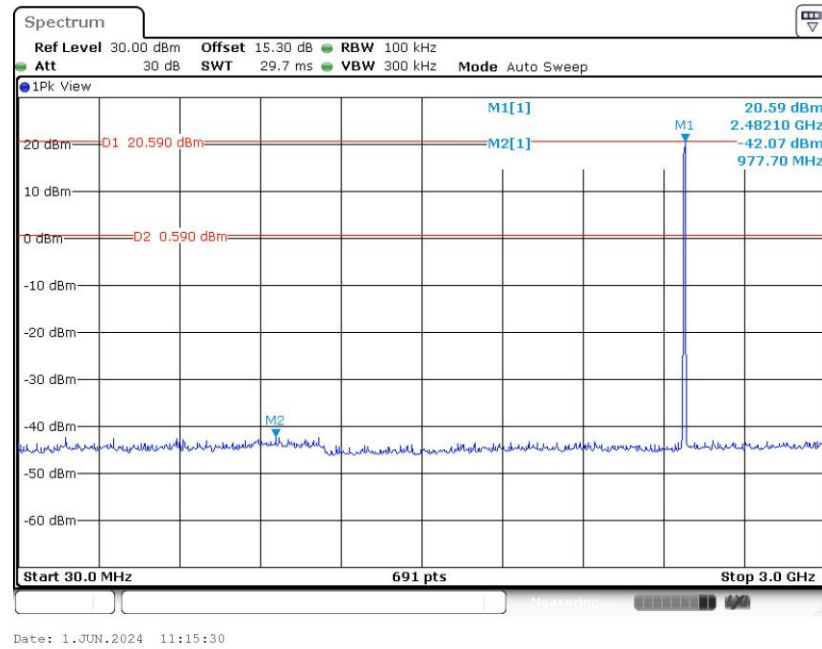


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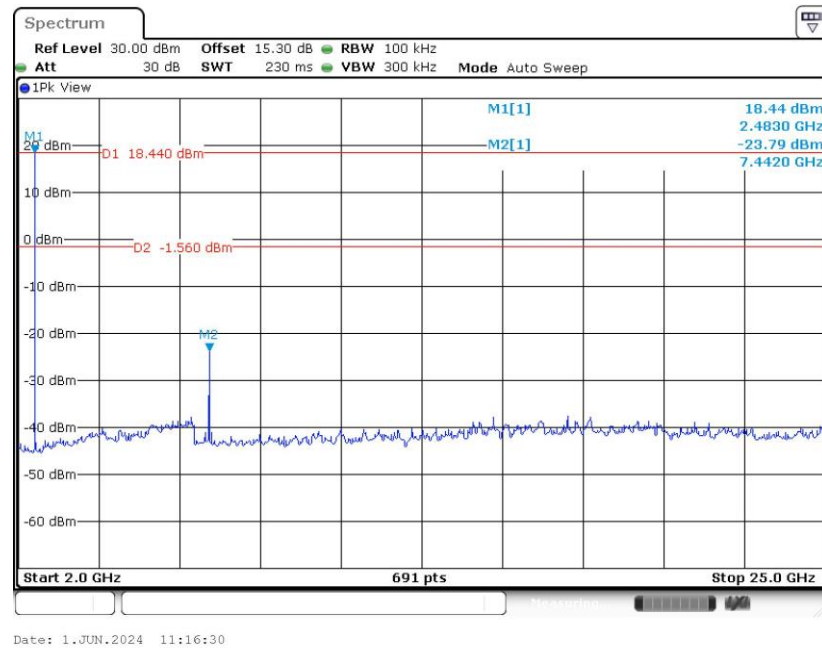




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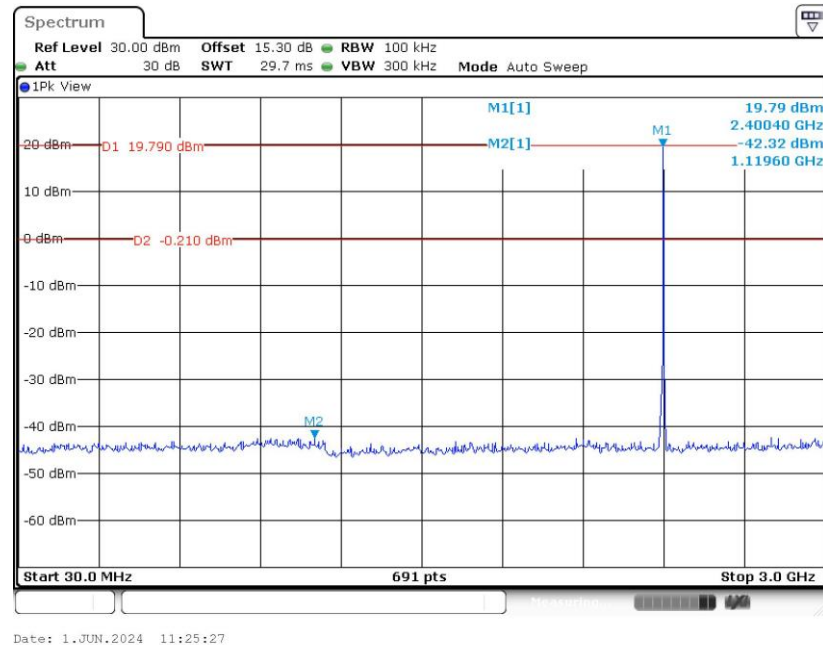
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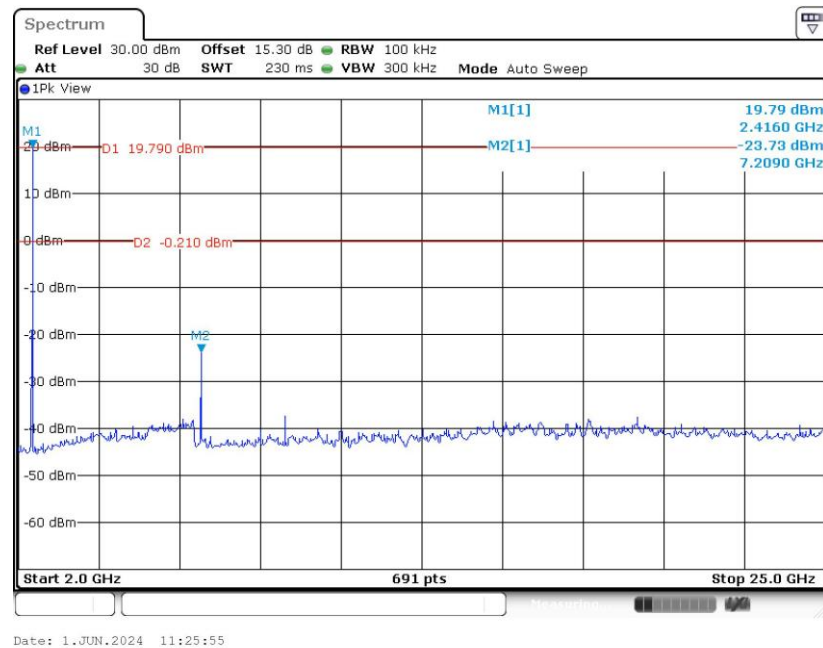


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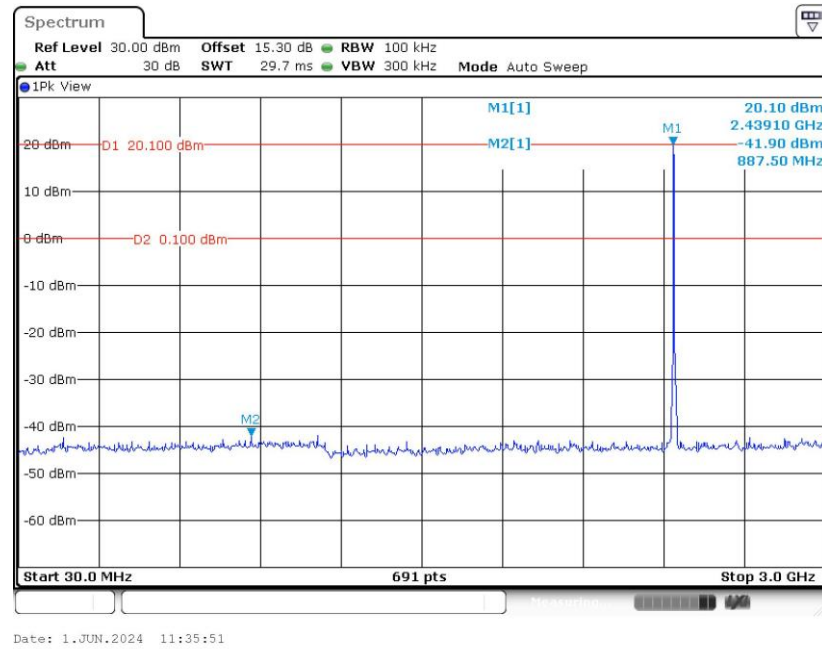


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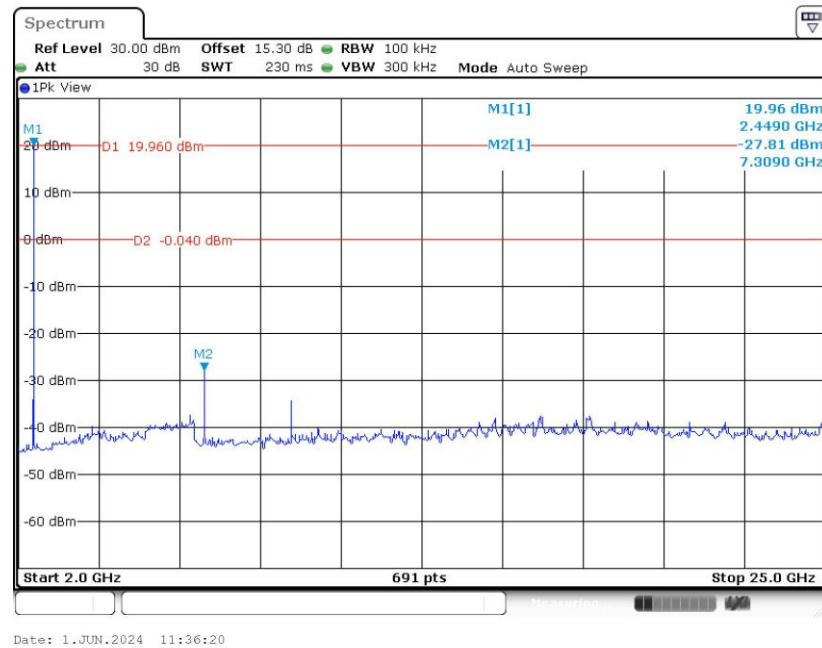




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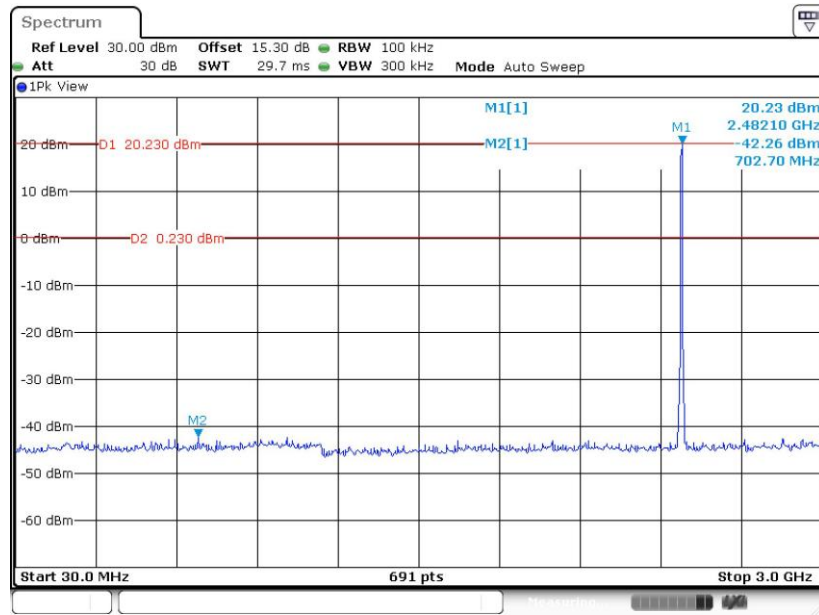


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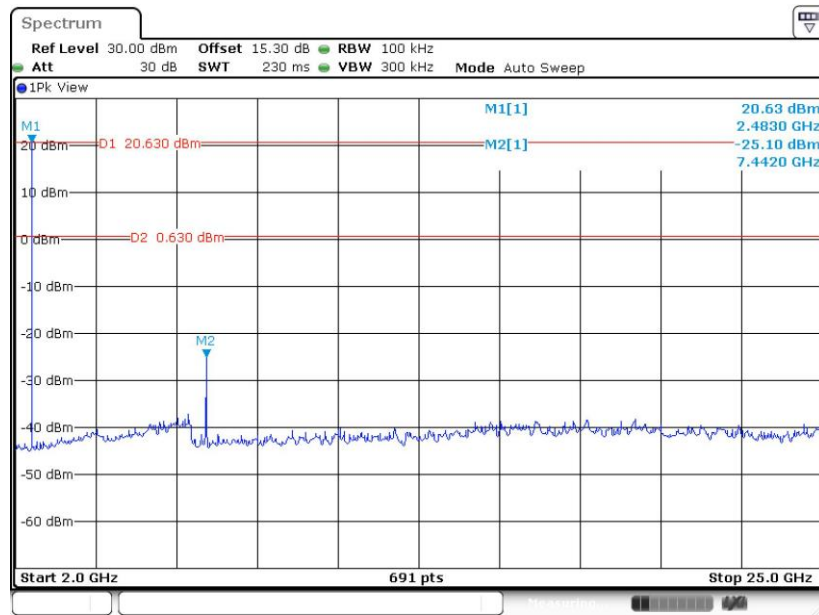


CSE Plot on Ch 78



Date: 1.JUN.2024 11:41:11

CSE Plot on Ch 78



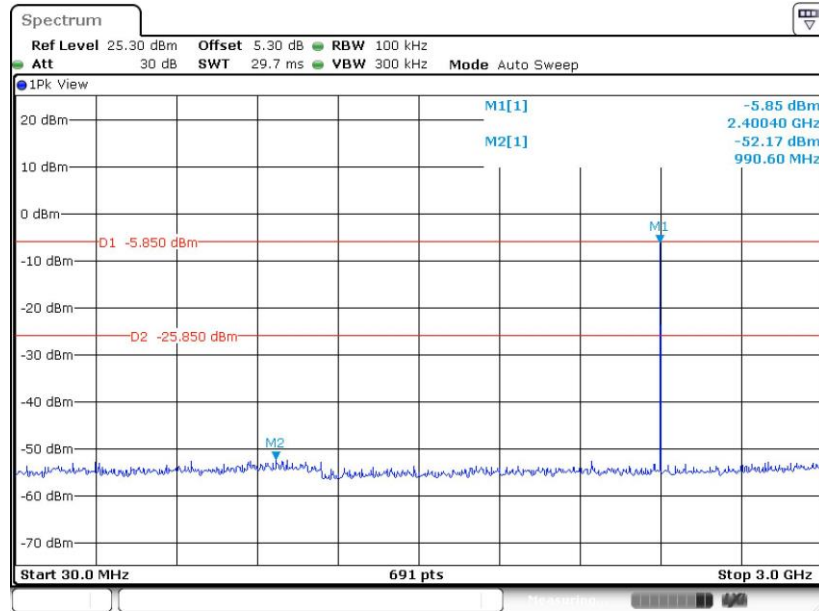
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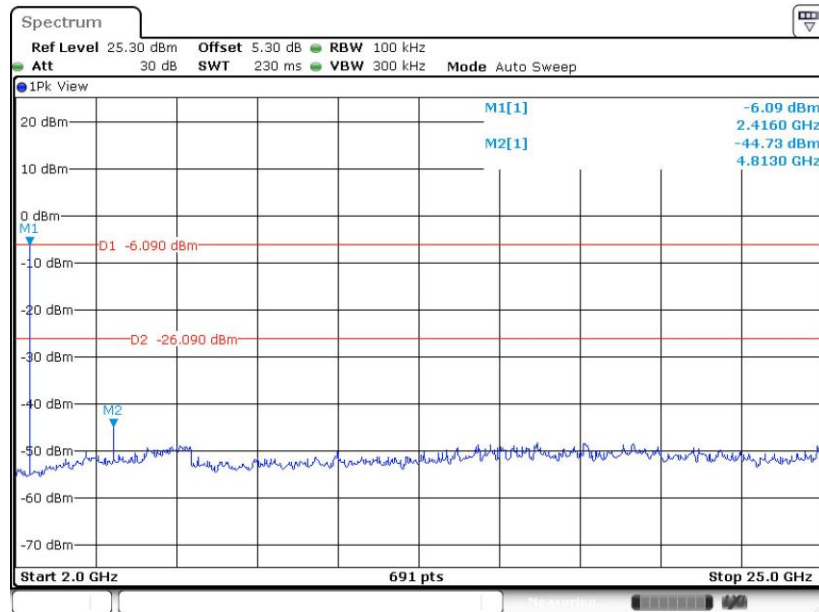
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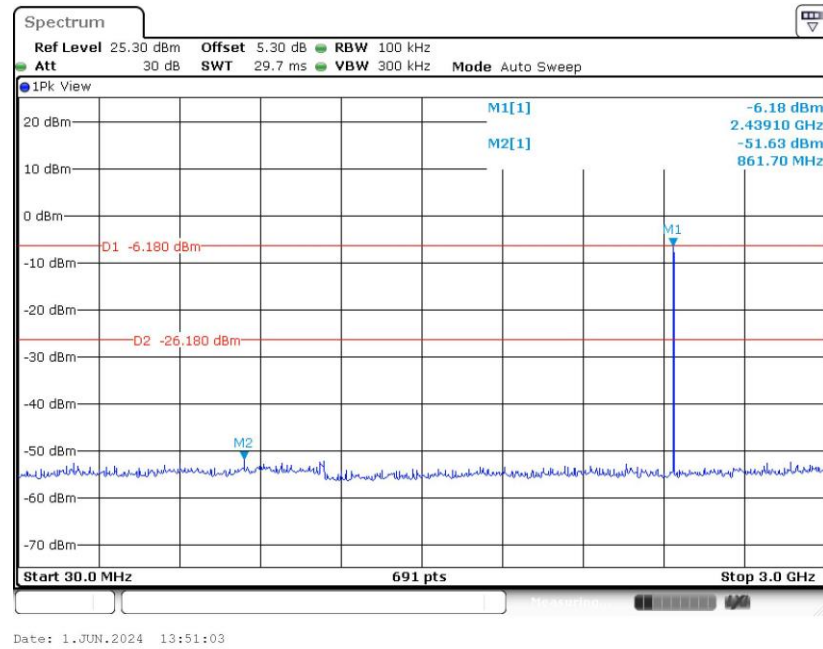
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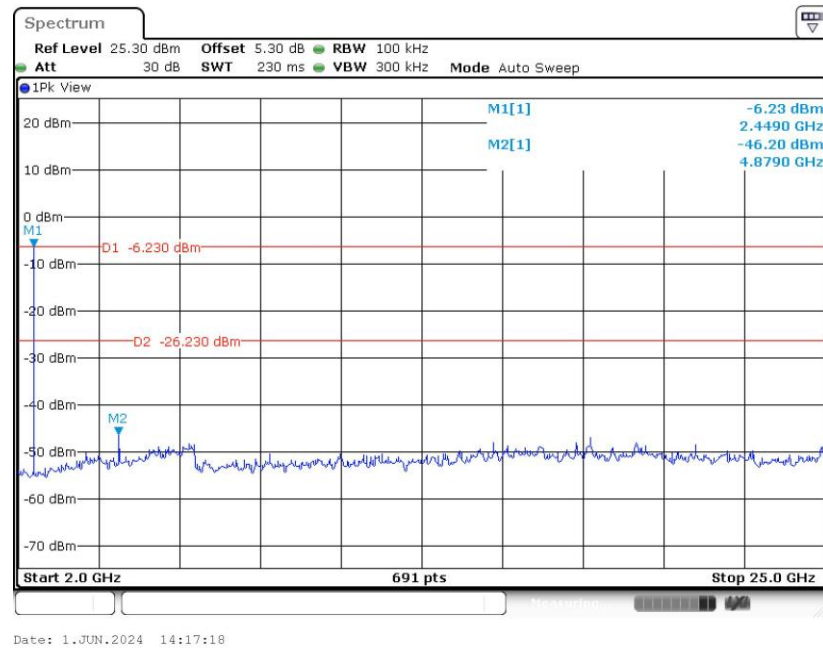
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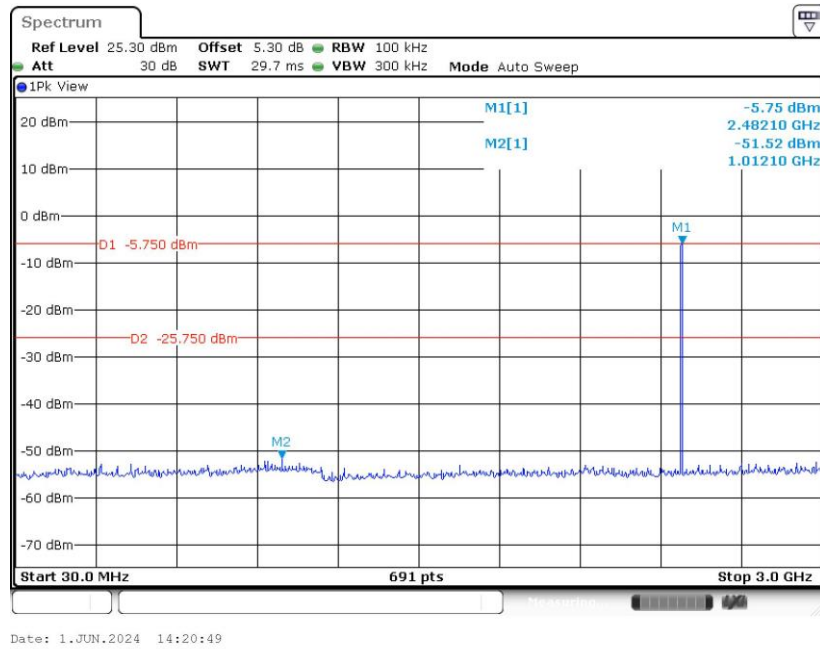


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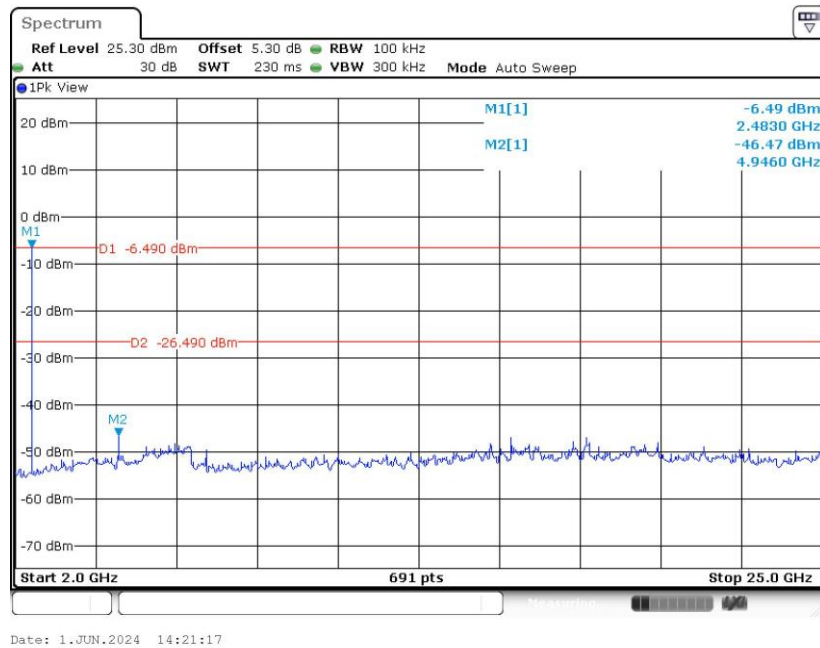




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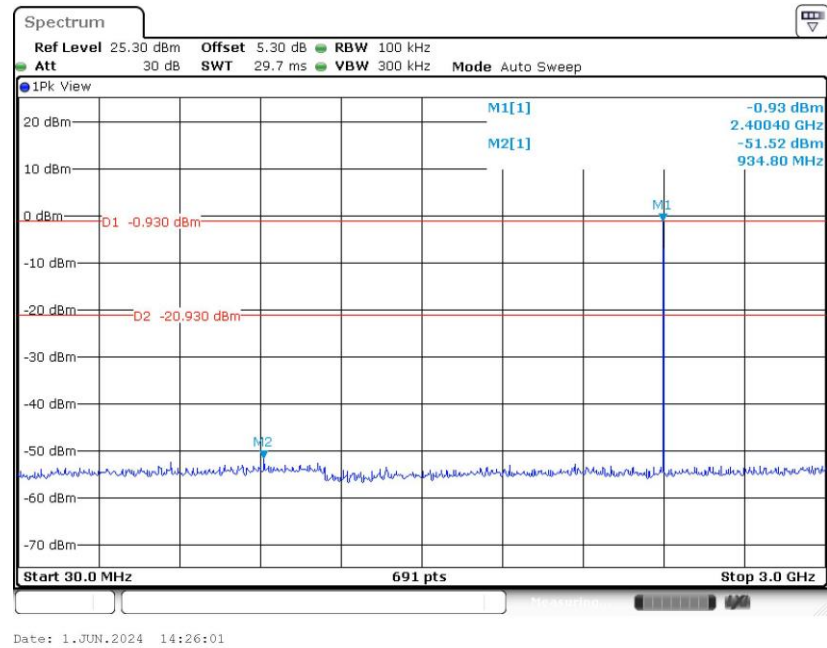
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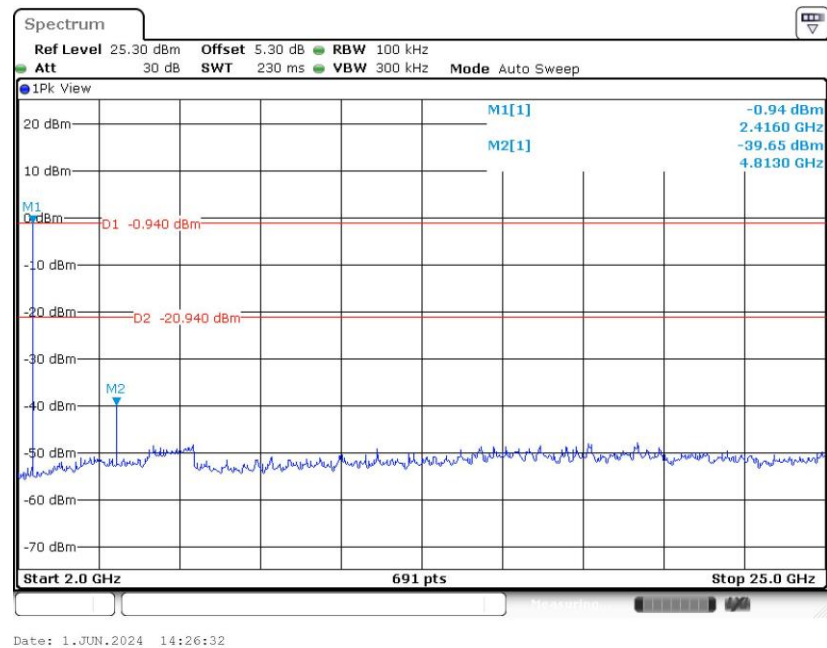


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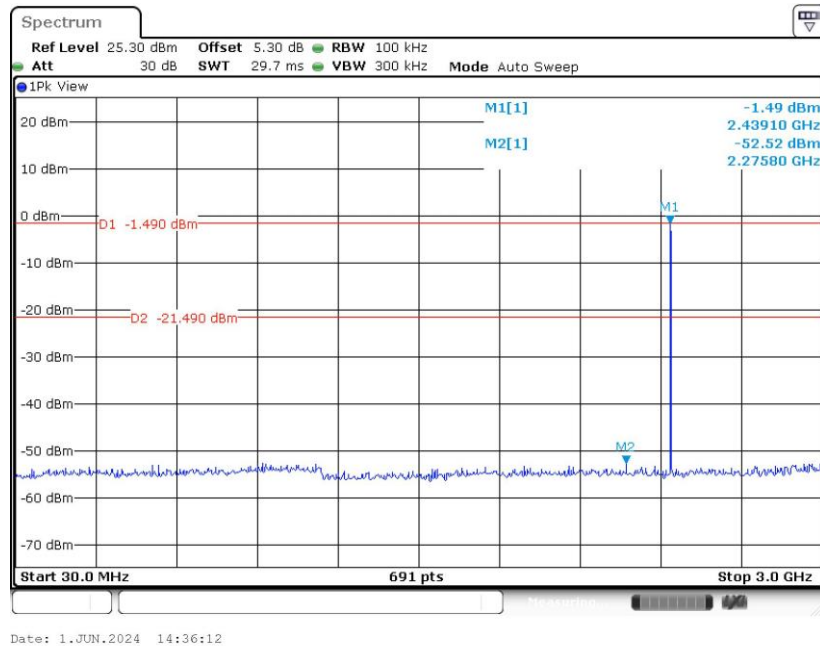


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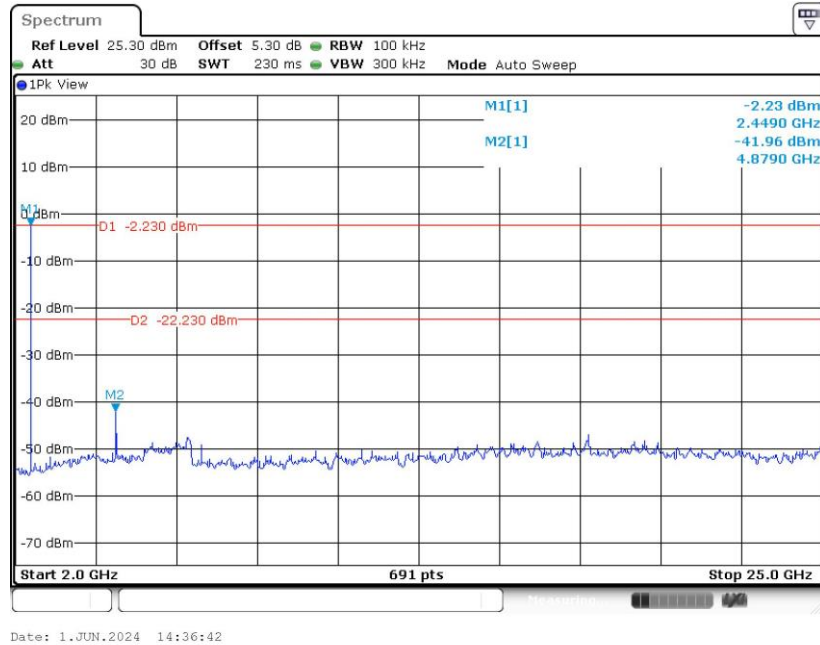




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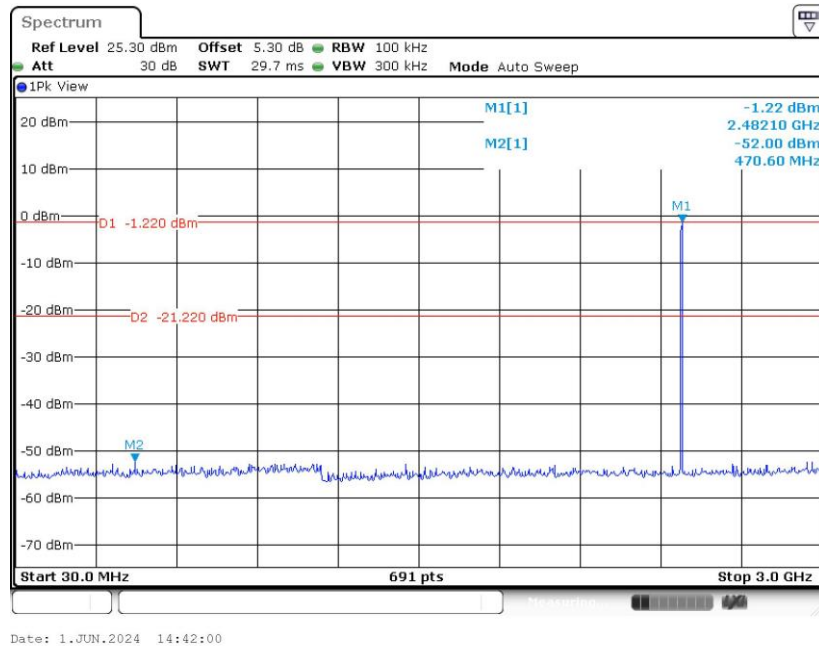


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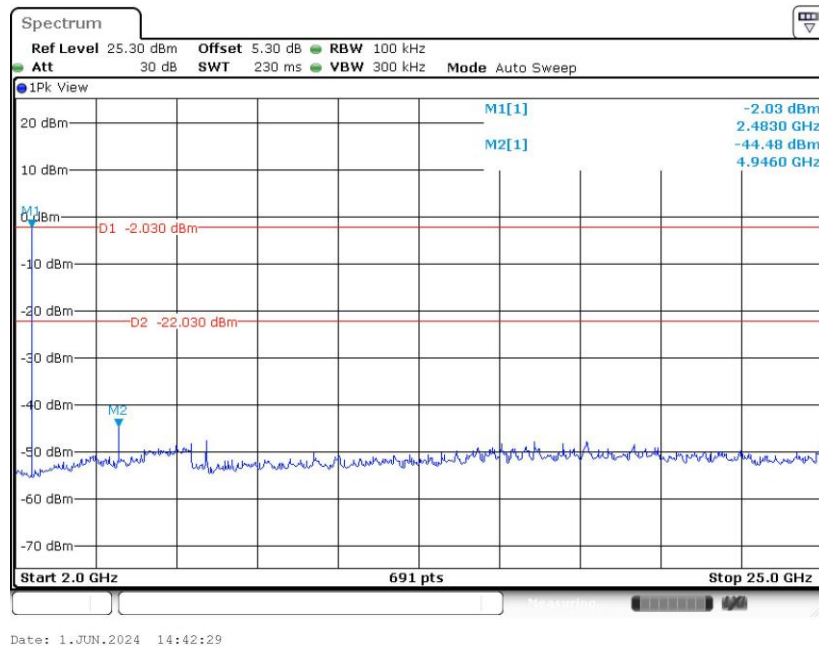




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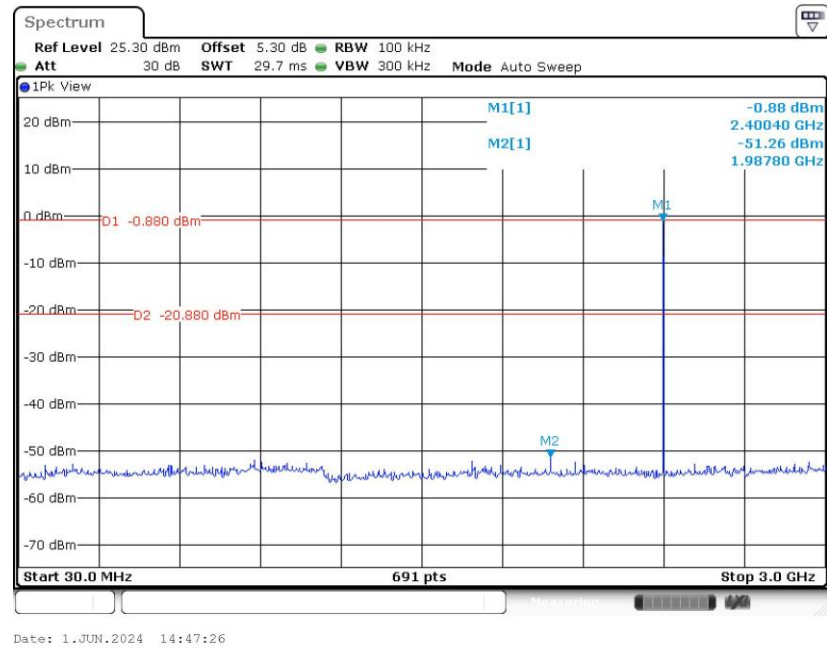
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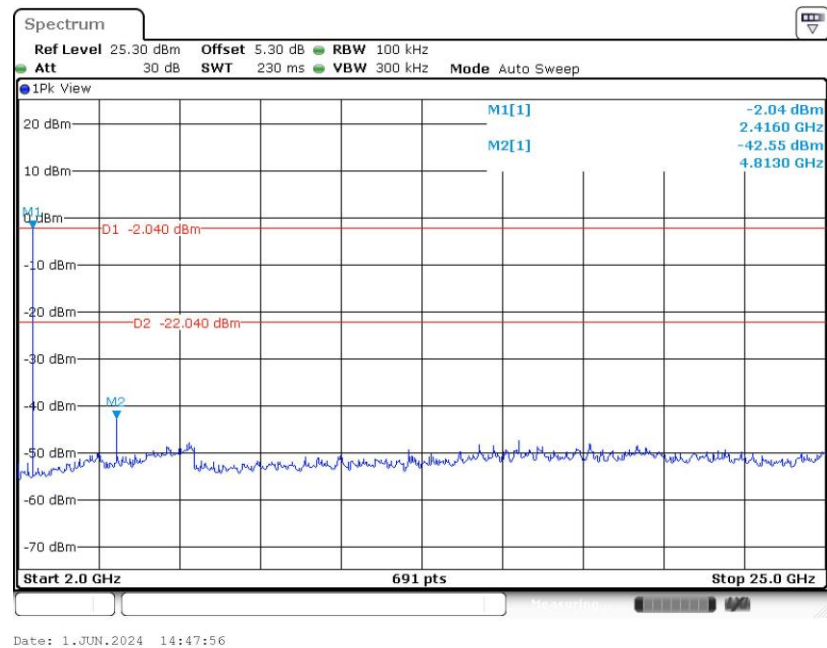


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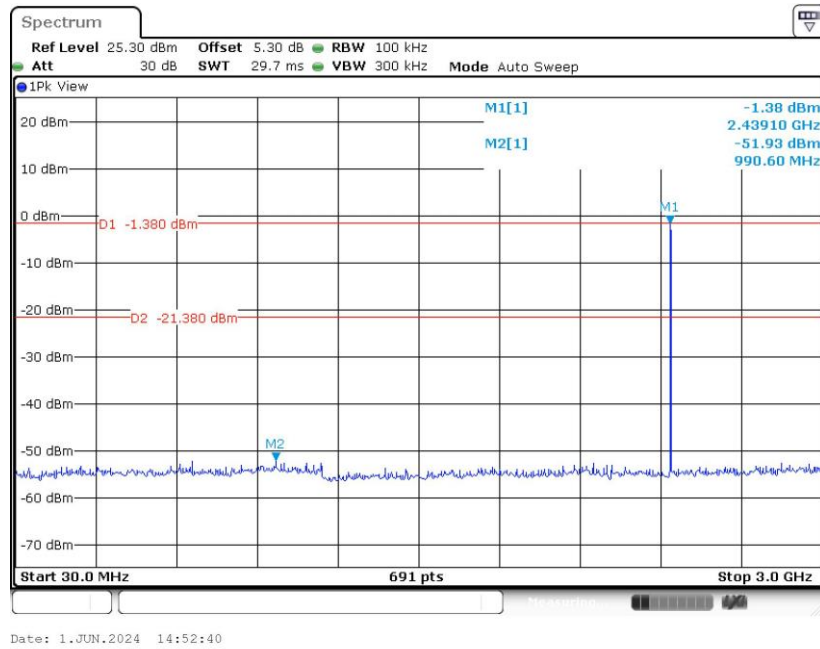


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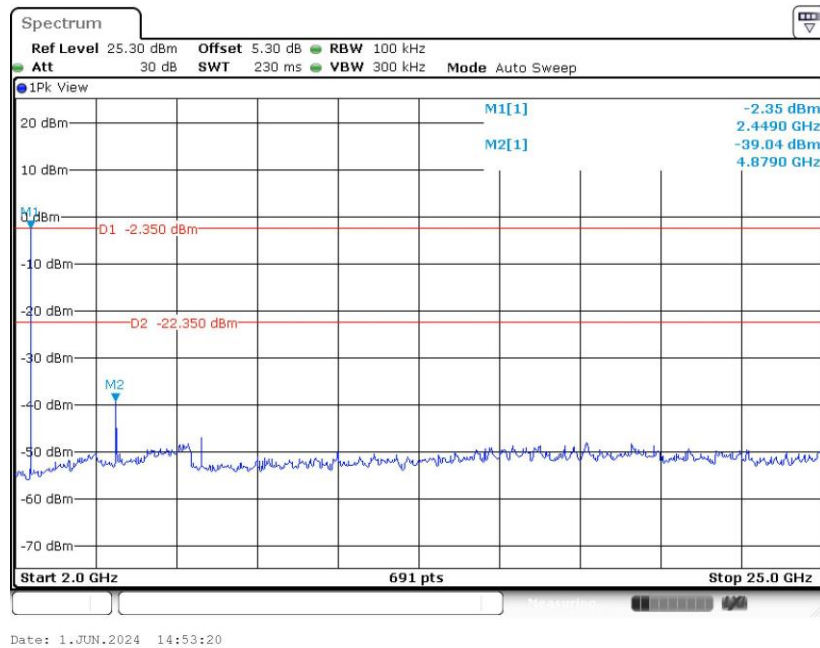




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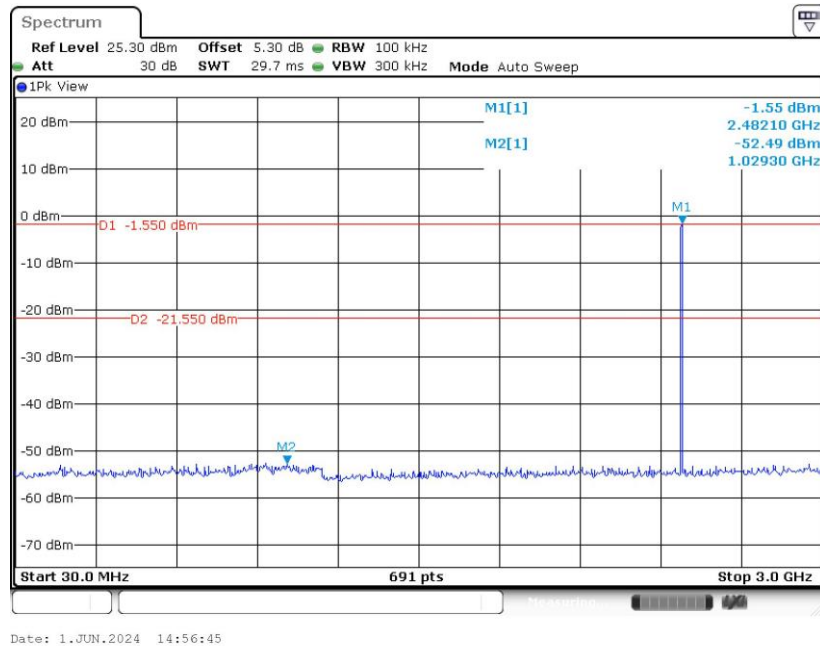


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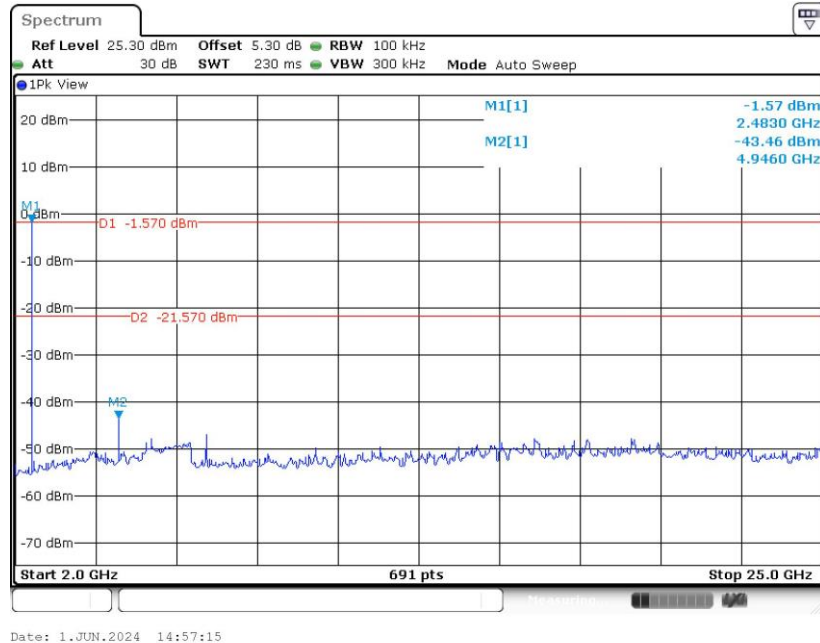




CSE Plot on Ch 78



CSE Plot on Ch 78





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.

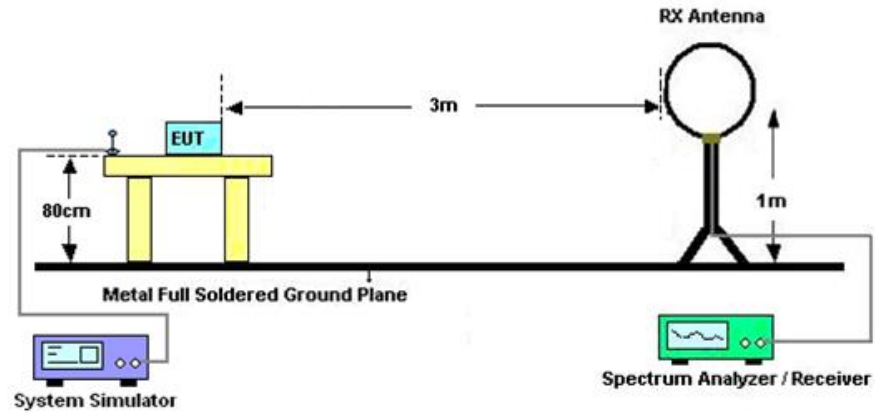
3.8.3 Test Procedures

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
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.

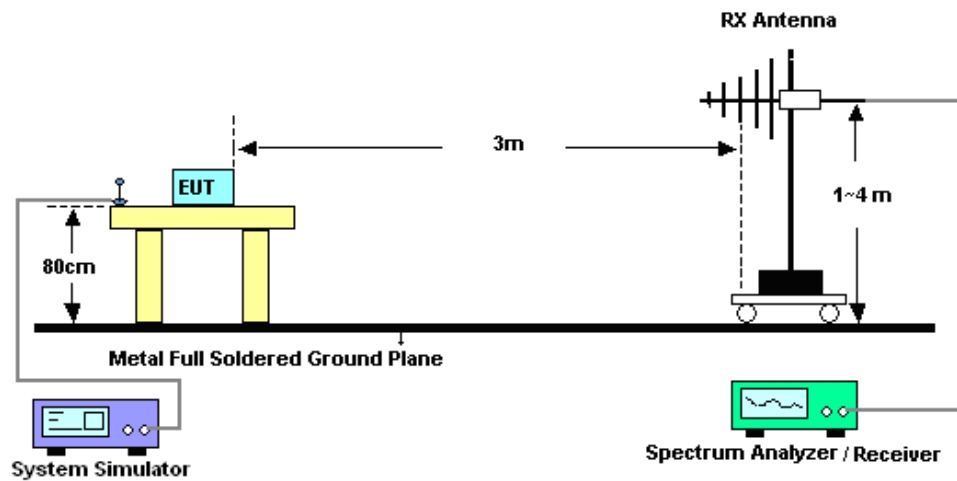
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (Ant 1:-30.81 dB / Ant2:-30.78) derived from $20\log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

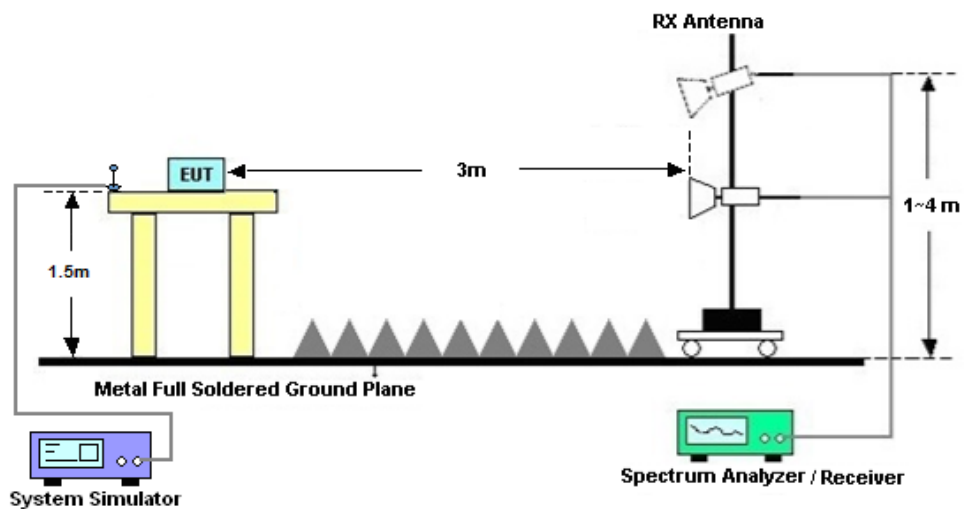
For radiated emissions below 30MHz



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.

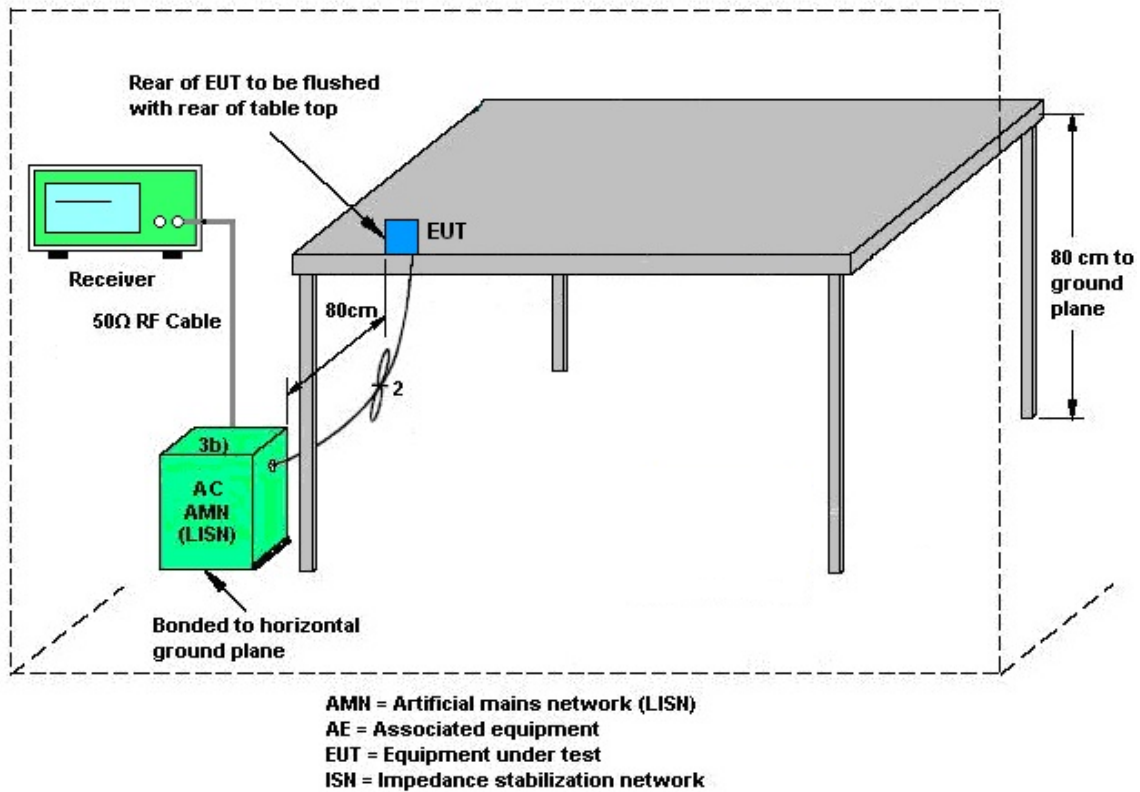
3.9.2 Measuring Instruments

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
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Jun. 10, 2024~Jun. 18, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz	Oct. 11, 2023	Jun. 10, 2024~Jun. 18, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Jun. 10, 2024~Jun. 18, 2024	Sep. 10, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 19, 2023	Jun. 10, 2024~Jun. 18, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Jun. 10, 2024~Jun. 18, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Jun. 10, 2024~Jun. 18, 2024	Jan. 05, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	372171	9KHz ~1GHZ	Jan. 02, 2024	Jun. 10, 2024~Jun. 18, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Jun. 10, 2024~Jun. 18, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082395	1Ghz-18Ghz	Jan. 02, 2024	Jun. 10, 2024~Jun. 18, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 11, 2023	Jun. 10, 2024~Jun. 18, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 10, 2024~Jun. 18, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 10, 2024~Jun. 18, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 10, 2024~Jun. 18, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr 18, 2024	Jun. 19, 2024	Apr 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 19, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr 18, 2024	Jun. 19, 2024	Apr 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 19, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Jan. 05, 2024	Jun. 01, 2024	Jan. 04, 2025	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jun. 01, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Jun. 01, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Jun. 01, 2024	Jan. 01, 2025	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 ppm

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 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))	6.06 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38 dB
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----- THE END -----



Appendix A. Conducted Test Results

Bluetooth

Test Engineer:	Jacob Zhang	Temperature:	20~26	°C
Test Date:	2024/6/1	Relative Humidity:	40~51	%

BT2.0-Ant2**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 (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.947	0.871	1007.200	0.6310	Pass
DH	1Mbps	1	39	2441	0.949	0.868	1002.900	0.6329	Pass
DH	1Mbps	1	78	2480	0.949	0.686	1002.900	0.6329	Pass
2DH	2Mbps	1	0	2402	1.363	1.389	998.600	0.9088	Pass
2DH	2Mbps	1	39	2441	1.363	1.395	998.600	0.9088	Pass
2DH	2Mbps	1	78	2480	1.363	1.389	998.600	0.9088	Pass
3DH	3Mbps	1	0	2402	1.372	1.346	1002.900	0.9146	Pass
3DH	3Mbps	1	39	2441	1.372	1.352	1002.900	0.9146	Pass
3DH	3Mbps	1	78	2480	1.372	1.349	1002.900	0.9146	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	2.90	0.31	0.4	Pass
AFH	20	53.33	2.90	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
DH1	0	1	18.53	20.97	Pass	-4
	39	1	18.55	20.97	Pass	-4
	78	1	18.52	20.97	Pass	-4
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
2DH1	0	1	19.52	20.97	Pass	-4
	39	1	19.87	20.97	Pass	-4
	78	1	19.85	20.97	Pass	-4
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
3DH1	0	1	19.65	20.97	Pass	-4
	39	1	20.00	20.97	Pass	-4
	78	1	19.98	20.97	Pass	-4

TEST RESULTS DATA**Number of Hopping Frequency**

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

Bluetooth**BT2.0-Ant1****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 (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.952	0.874	998.600	0.6348	Pass
DH	1Mbps	1	39	2441	0.955	0.874	1007.200	0.6367	Pass
DH	1Mbps	1	78	2480	0.949	0.871	1002.900	0.6329	Pass
2DH	2Mbps	1	0	2402	1.316	1.192	998.600	0.8770	Pass
2DH	2Mbps	1	39	2441	1.333	1.192	994.200	0.8886	Pass
2DH	2Mbps	1	78	2480	1.333	1.192	994.200	0.8886	Pass
3DH	3Mbps	1	0	2402	1.263	1.172	998.600	0.8423	Pass
3DH	3Mbps	1	39	2441	1.281	1.172	963.800	0.8539	Pass
3DH	3Mbps	1	78	2480	1.285	1.172	1002.900	0.8567	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	2.88	0.31	0.4	Pass
AFH	20	53.33	2.88	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

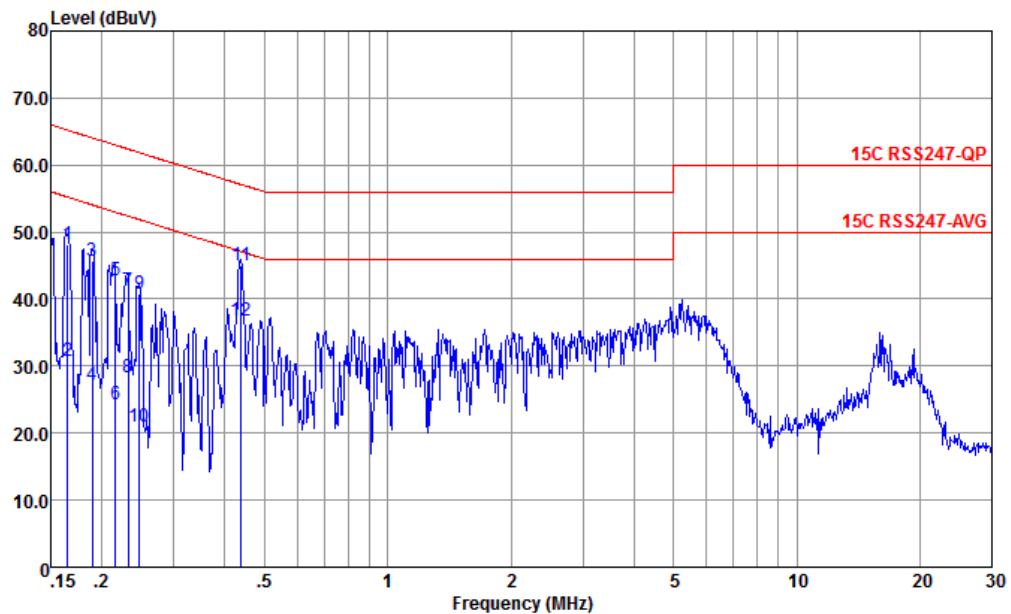
DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
DH1	0	1	-5.32	20.97	Pass	4
	39	1	-6.16	20.97	Pass	4
	78	1	-6.13	20.97	Pass	4
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
2DH1	0	1	-2.79	20.97	Pass	4
	39	1	-3.57	20.97	Pass	4
	78	1	-3.55	20.97	Pass	4
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	power setting
3DH1	0	1	-2.29	20.97	Pass	4
	39	1	-3.01	20.97	Pass	4
	78	1	-3.03	20.97	Pass	4

TEST RESULTS DATA**Number of Hopping Frequency**

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

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

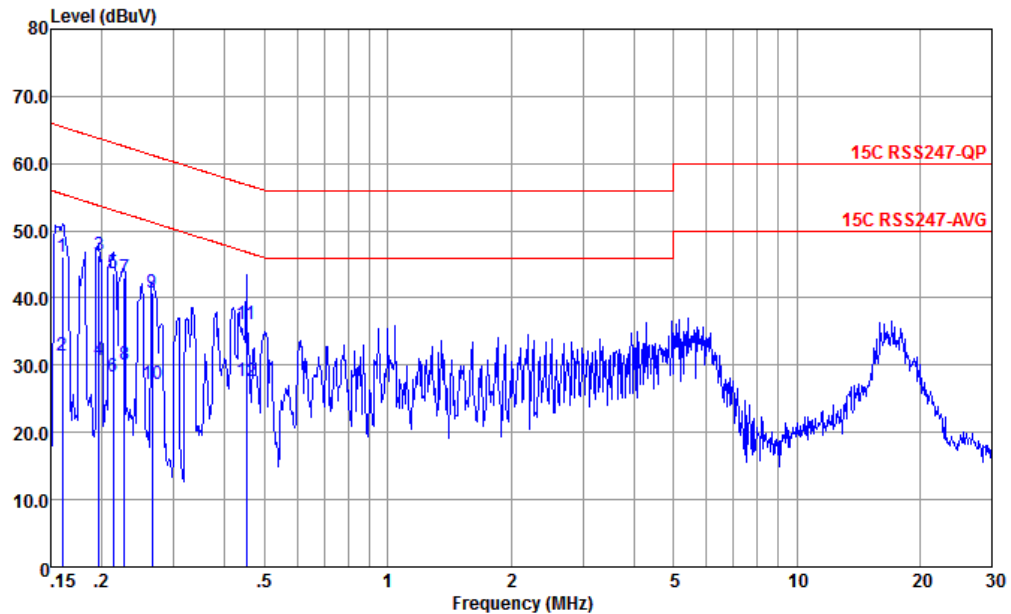


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.165	48.02	-17.19	65.21	37.49	0.11	10.42	QP
2	0.165	30.82	-24.39	55.21	20.29	0.11	10.42	Average
3	0.189	45.60	-18.46	64.06	35.10	0.09	10.41	QP
4	0.189	27.10	-26.96	54.06	16.60	0.09	10.41	Average
5	0.216	42.78	-20.18	62.96	32.30	0.08	10.40	QP
6	0.216	24.38	-28.58	52.96	13.90	0.08	10.40	Average
7	0.232	41.27	-21.12	62.39	30.81	0.08	10.38	QP
8	0.232	28.27	-24.12	52.39	17.81	0.08	10.38	Average
9	0.247	40.76	-21.10	61.86	30.30	0.09	10.37	QP
10	0.247	20.96	-30.90	51.86	10.50	0.09	10.37	Average
11	0.437	45.00	-12.11	57.11	34.80	-0.06	10.26	QP
12 *	0.437	36.70	-10.41	47.11	26.50	-0.06	10.26	Average



Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.160	46.14	-19.33	65.47	35.60	0.12	10.42	QP
2	0.160	31.44	-24.03	55.47	20.90	0.12	10.42	Average
3 *	0.197	46.34	-17.42	63.76	35.80	0.13	10.41	QP
4	0.197	30.74	-23.02	53.76	20.20	0.13	10.41	Average
5	0.213	43.79	-19.31	63.10	33.30	0.09	10.40	QP
6	0.213	28.39	-24.71	53.10	17.90	0.09	10.40	Average
7	0.227	43.04	-19.53	62.57	32.60	0.05	10.39	QP
8	0.227	30.07	-22.50	52.57	19.63	0.05	10.39	Average
9	0.266	40.81	-20.44	61.25	30.50	-0.05	10.36	QP
10	0.266	27.11	-24.14	51.25	16.80	-0.05	10.36	Average
11	0.452	36.00	-20.85	56.85	25.89	-0.14	10.25	QP
12	0.452	27.60	-19.25	46.85	17.49	-0.14	10.25	Average

Note:

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



Appendix C Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41~42%
		Temperature :	22~23℃

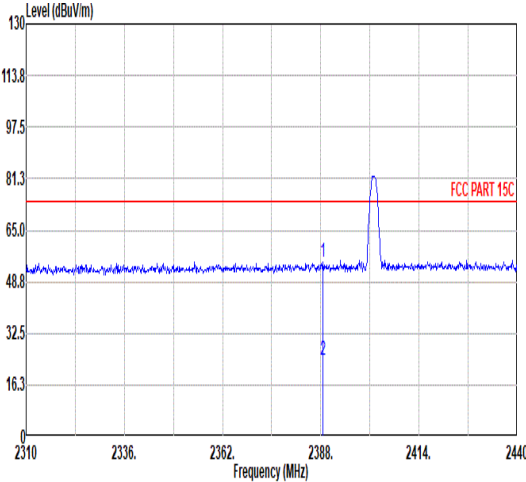
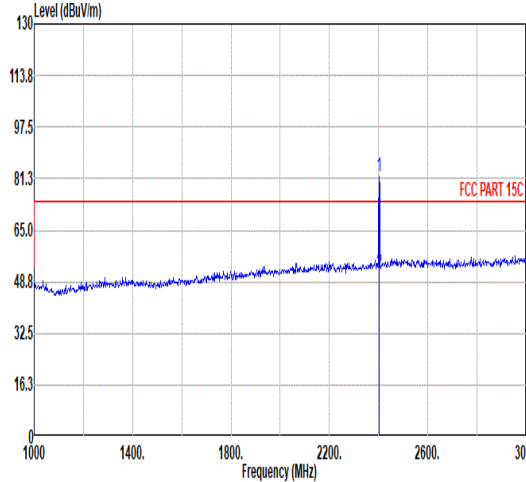
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	Chip	Bluetooth BR_GFSK	0	2402	3Mbps	-	-
Mode 2	2400-2483.5	Chip	Bluetooth BR_GFSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	Chip	Bluetooth BR_GFSK	78	2480	3Mbps	-	-
Mode 4	2400-2483.5	Printed	Bluetooth BR_GFSK	0	2402	3Mbps	-	-
Mode 5	2400-2483.5	Printed	Bluetooth BR_GFSK	39	2441	3Mbps	-	-
Mode 6	2400-2483.5	Printed	Bluetooth BR_GFSK	78	2480	3Mbps	-	-

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 BR_GFSK	0	2329.50	54.92	74.00	-19.08	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	46.78	74.00	-27.22	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	2483.80	56.06	74.00	-17.94	H	PEAK	Pass	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	49.63	74.00	-24.37	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2491.62	55.55	74.00	-18.45	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	50.69	74.00	-23.31	H	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	0	2385.40	56.73	74.00	-17.27	H	PEAK	Pass	Band Edge
4	Bluetooth BR_GFSK	0	4804.00	64.34	74.00	-9.66	H	PEAK	Pass	Harmonic
5	Bluetooth BR_GFSK	39	2486.44	56.59	74.00	-17.41	H	PEAK	Pass	Band Edge
5	Bluetooth BR_GFSK	39	7323.00	72.49	74.00	-1.51	H	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	78	2487.96	64.42	74.00	-9.58	H	PEAK	Pass	Band Edge
6	Bluetooth BR_GFSK	78	7440.00	71.93	74.00	-2.07	H	PEAK	Pass	Harmonic

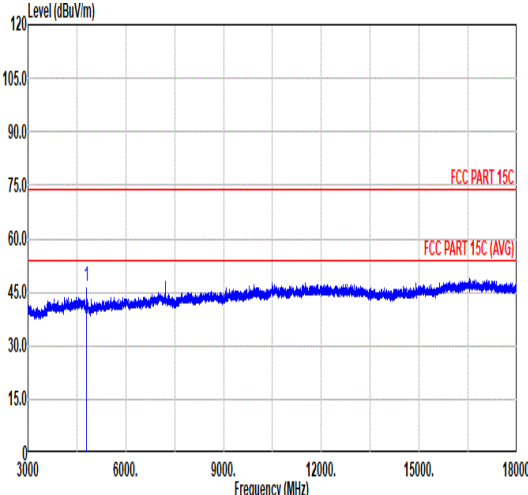
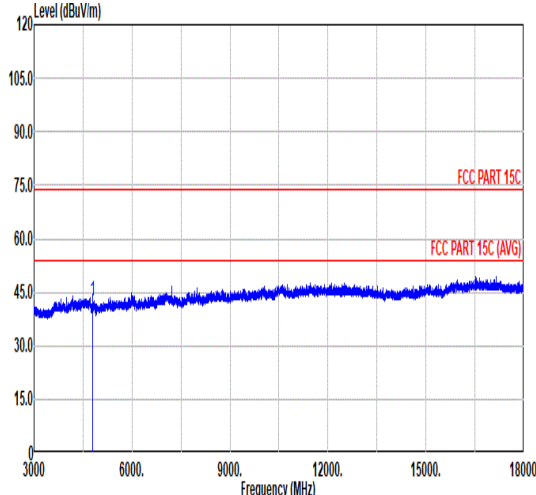


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Mode		Band Edge																																																																					
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																												
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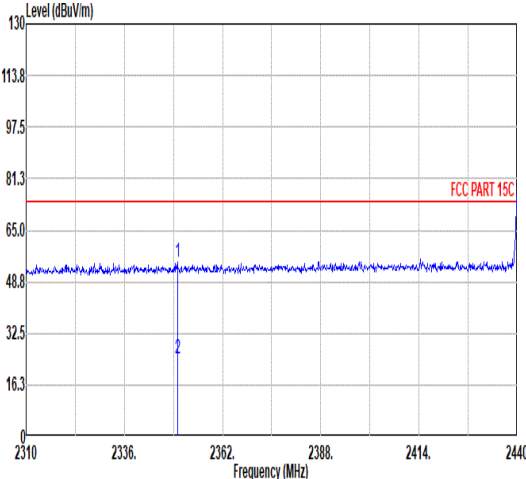
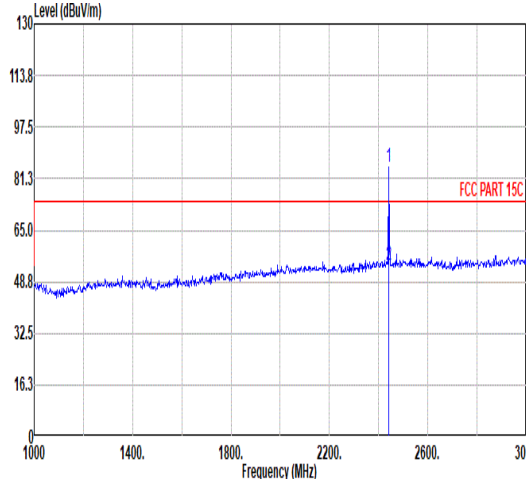


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		Freq	Level	Limit	Over	Line	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																						
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1	2329.50	54.92	74.00	-19.08	42.81	31.00	6.51	32.20	6.00	343	122	PEAK																																																									
2	2329.50	24.11	54.00	-29.89	12.00	31.00	6.51	32.20	6.00	343	122	AVERAGE																																																									
<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Line</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>81.09</td><td>-----</td><td>-----</td><td>68.06</td><td>32.59</td><td>6.62</td><td>32.18</td><td>6.00</td><td>343</td><td>122</td><td>PEAK</td><td></td></tr><tr><td>2</td><td>2402.00</td><td>50.28</td><td>-----</td><td>-----</td><td>37.25</td><td>32.59</td><td>6.62</td><td>32.18</td><td>6.00</td><td>343</td><td>122</td><td>AVERAGE</td><td></td></tr></tbody></table>												Freq	Level	Limit	Over	Line	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	dB	cm	deg		1	2402.00	81.09	-----	-----	68.06	32.59	6.62	32.18	6.00	343	122	PEAK		2	2402.00	50.28	-----	-----	37.25	32.59	6.62	32.18	6.00	343	122	AVERAGE		
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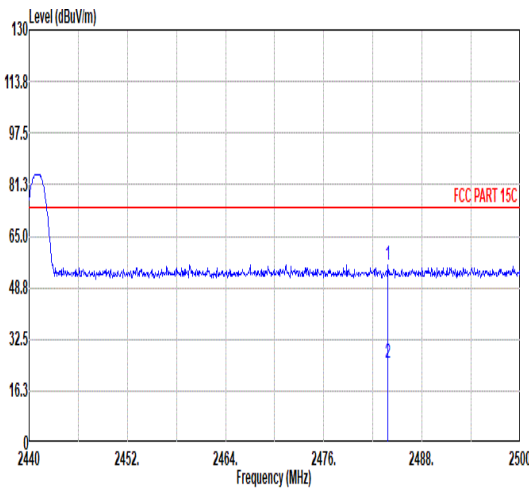


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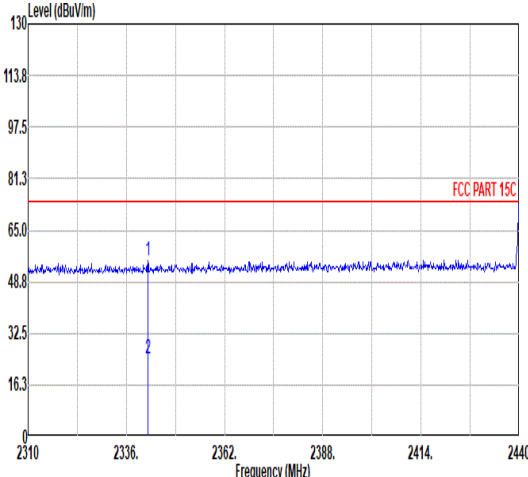
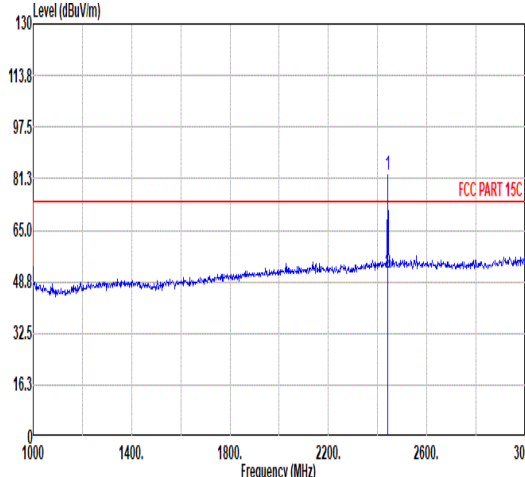


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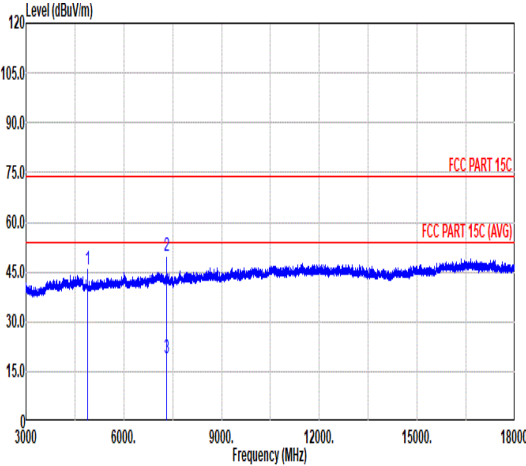
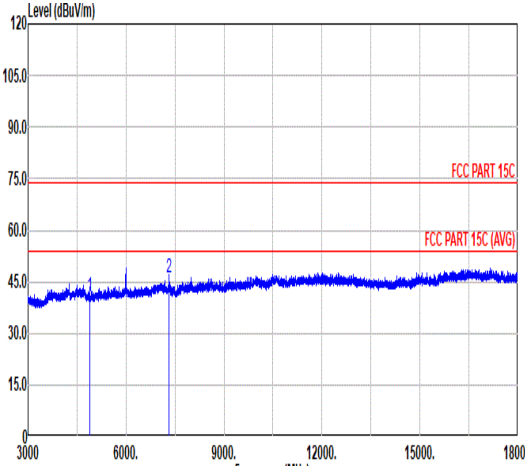


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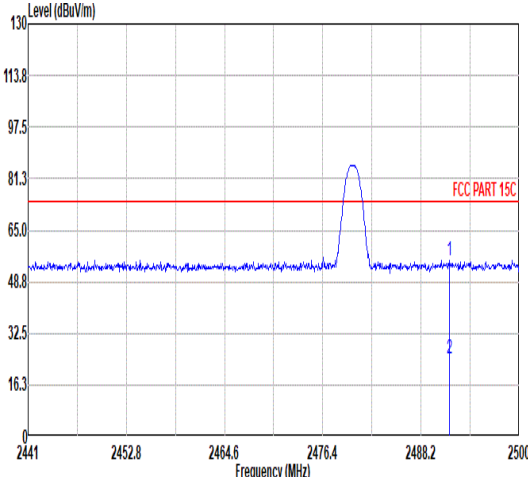
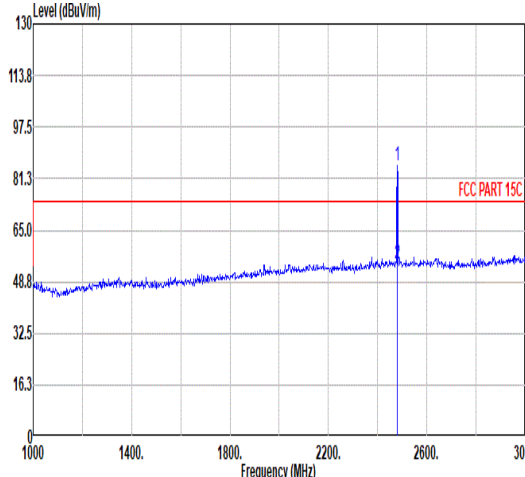


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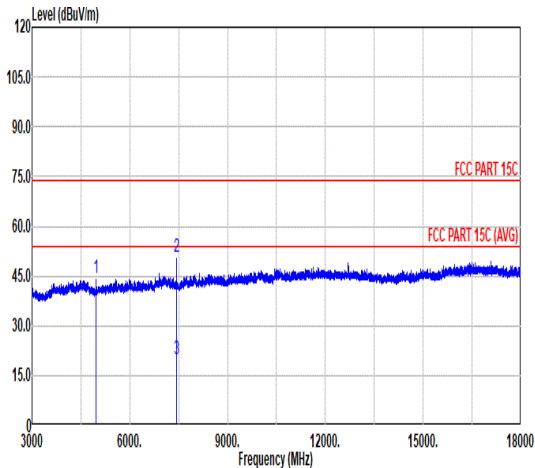
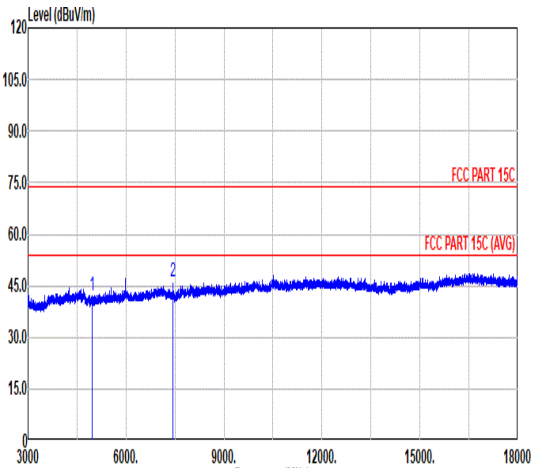


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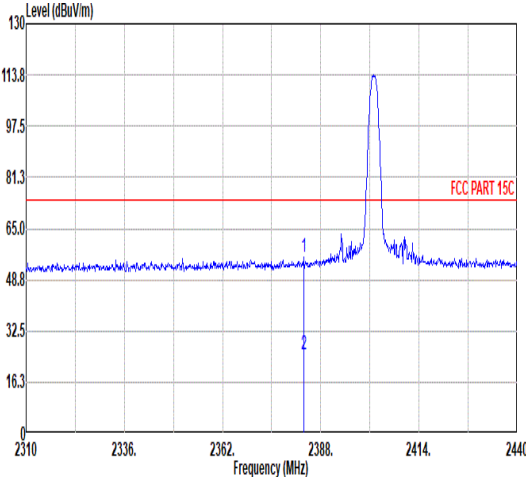
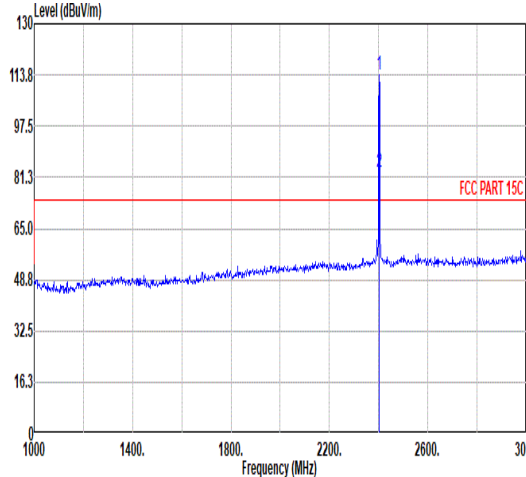


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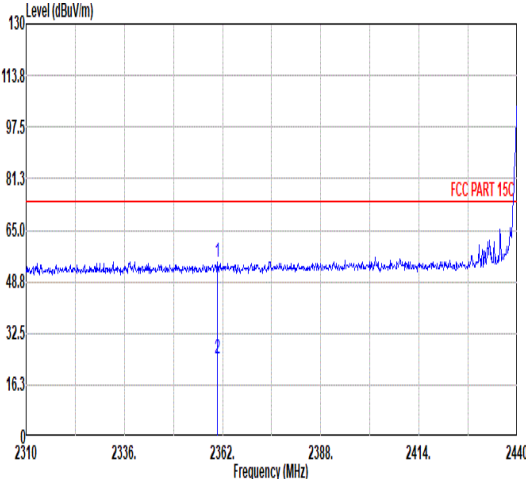
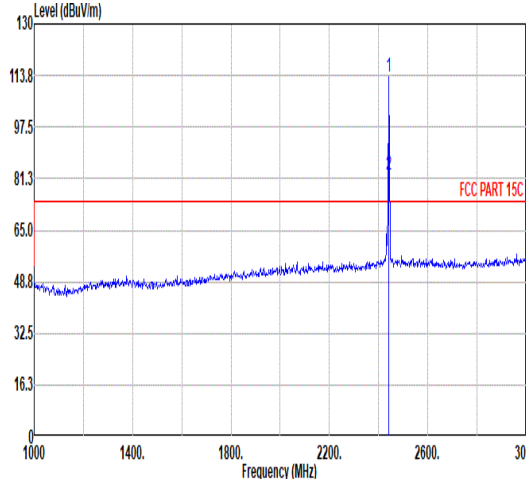


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8	16813.50	53.31	93.76	-40.45	56.89	41.37	18.13	63.08	0.00	---	--- Peak																																																																																																																										
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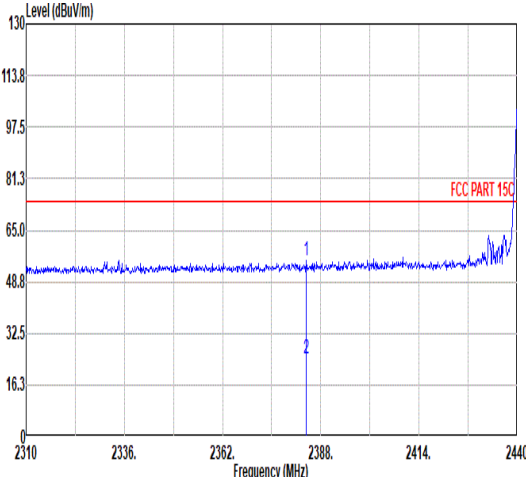


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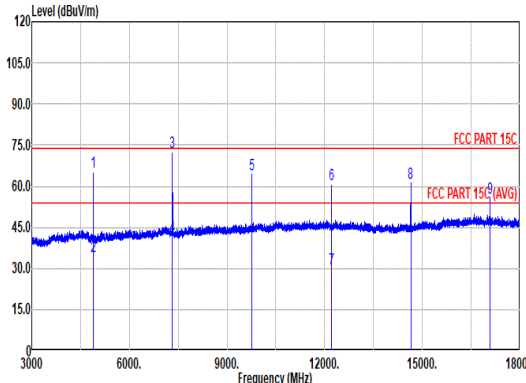
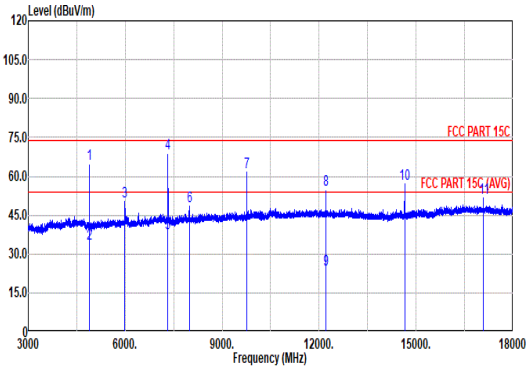


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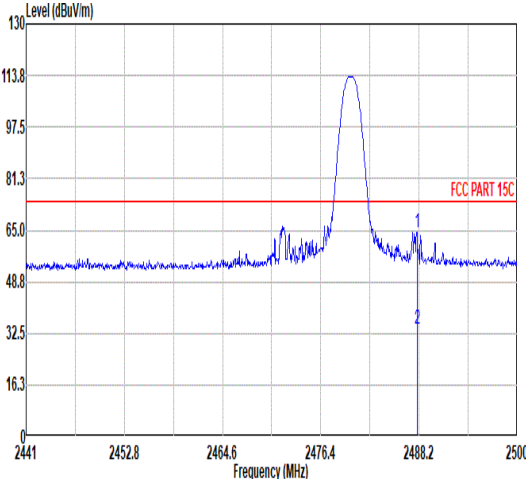
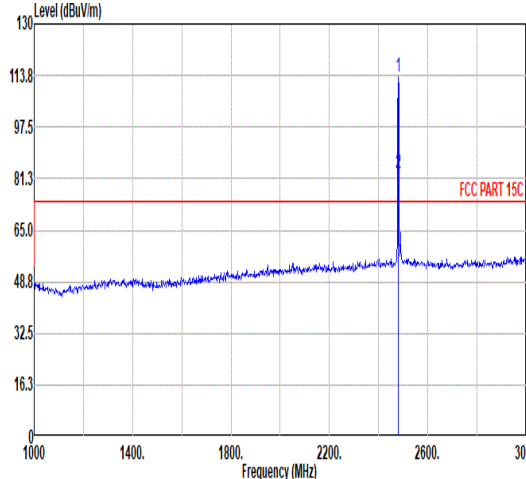


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2	2487.04	24.51	54.00	-29.49	11.39	32.62	6.74	32.24	6.00	303	360 AVERAGE																																																

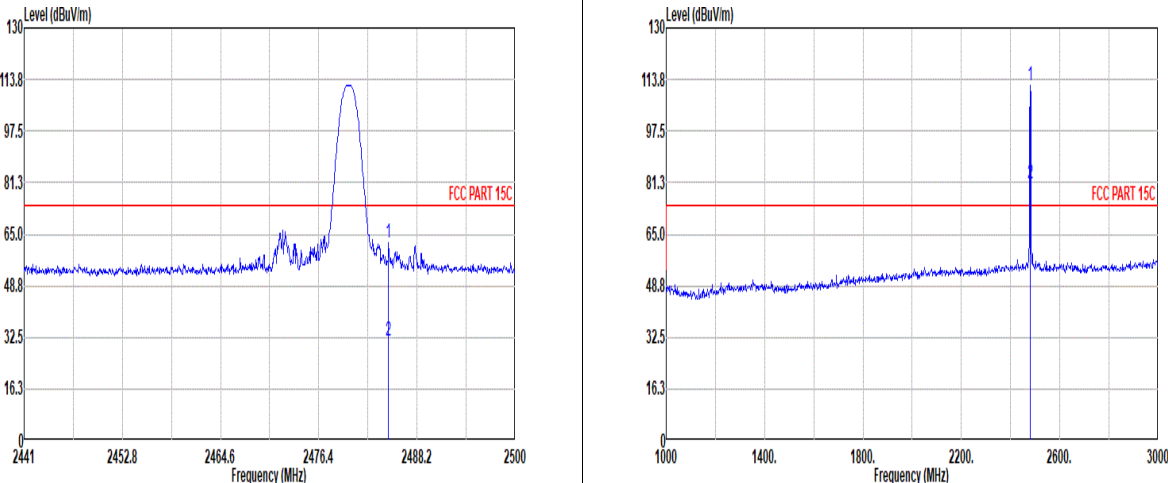


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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																														
	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																													
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																														
1	2484.78	62.19	74.00	-11.81	49.08	32.61	6.73	32.23	6.00	299	360 PEAK																																																													
2	2484.78	31.41	54.00	-22.59	18.30	32.61	6.73	32.23	6.00	299	360 AVERAGE																																																													
<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2"></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th><th></th></tr><tr><td></td><td>MHz</td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td>dBuV</td><td>dB/m</td><td>dB</td><td>dB</td><td>cm</td><td>deg</td><td></td></tr><tr><td>1</td><td>2480.00</td><td>111.96</td><td>-----</td><td>-----</td><td>98.88</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>299</td><td>360 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>81.18</td><td>-----</td><td>-----</td><td>68.10</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>299</td><td>360 AVERAGE</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	2480.00	111.96	-----	-----	98.88	32.58	6.73	32.23	6.00	299	360 PEAK	2	2480.00	81.18	-----	-----	68.10	32.58	6.73	32.23	6.00	299	360 AVERAGE	
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																															
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2	2480.00	81.18	-----	-----	68.10	32.58	6.73	32.23	6.00	299	360 AVERAGE																																																													



		6									
Mode	Harmonic										
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz										
ANT	Printed										
Pol.	Horizontal										
Peak Avg											
	Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg
1	4960.00	65.60	74.00	-8.40	83.15	34.00	9.61	61.16	0.00	131	1 PEAK
2	4960.00	34.79	54.00	-19.21	52.34	34.00	9.61	61.16	0.00	131	1 AVERAGE
3	7440.00	71.93	74.00	-2.07	85.48	35.70	11.77	61.02	0.00	100	337 PEAK
4	7440.00	41.12	54.00	-12.88	54.67	35.70	11.77	61.02	0.00	100	337 AVERAGE
5	9919.50	67.53	90.77	-23.24	77.76	37.28	13.77	61.28	0.00	100	357 Peak
6	12400.00	66.27	74.00	-7.73	73.51	38.00	15.58	61.62	0.00	310	330 PEAK
7	12400.00	35.46	54.00	-18.54	42.70	38.00	15.58	61.62	0.00	310	330 AVERAGE
8	14878.50	63.39	90.77	-27.38	70.21	39.68	17.15	63.65	0.00	252	360 Peak
9	17361.00	55.47	90.77	-35.30	59.07	40.90	18.44	62.94	0.00	300	293 Peak

		Vertical									
Peak Avg											
	Freq	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg
1	4960.00	65.42	74.00	-8.58	82.97	34.00	9.61	61.16	0.00	108	2 PEAK
2	4960.00	34.61	54.00	-19.39	52.16	34.00	9.61	61.16	0.00	108	2 AVERAGE
3	7440.00	69.42	74.00	-4.58	82.97	35.70	11.77	61.02	0.00	100	292 PEAK
4	7440.00	38.61	54.00	-15.39	52.16	35.70	11.77	61.02	0.00	100	292 AVERAGE
5	9921.00	66.56	91.16	-24.60	76.79	37.28	13.77	61.28	0.00	100	8 Peak
6	12400.00	59.55	74.00	-14.45	66.79	38.00	15.58	61.62	0.00	100	175 PEAK
7	12400.00	28.74	54.00	-25.26	35.98	38.00	15.58	61.62	0.00	100	175 AVERAGE
8	14878.50	59.94	91.16	-31.22	66.76	39.68	17.15	63.65	0.00	229	0 Peak
9	17361.00	52.67	91.16	-38.49	56.27	40.90	18.44	62.94	0.00	300	15 Peak



Mode	5	
	18G-25G	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Printed	
Pol.	Horizontal	Vertical
Peak Avg	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a blue line for the measured signal, a red line for FCC PART 15C, and a red line for FCC PART 15C (AVG). The measured signal is below the FCC limits.	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a blue line for the measured signal, a red line for FCC PART 15C, and a red line for FCC PART 15C (AVG). The measured signal is below the FCC limits.



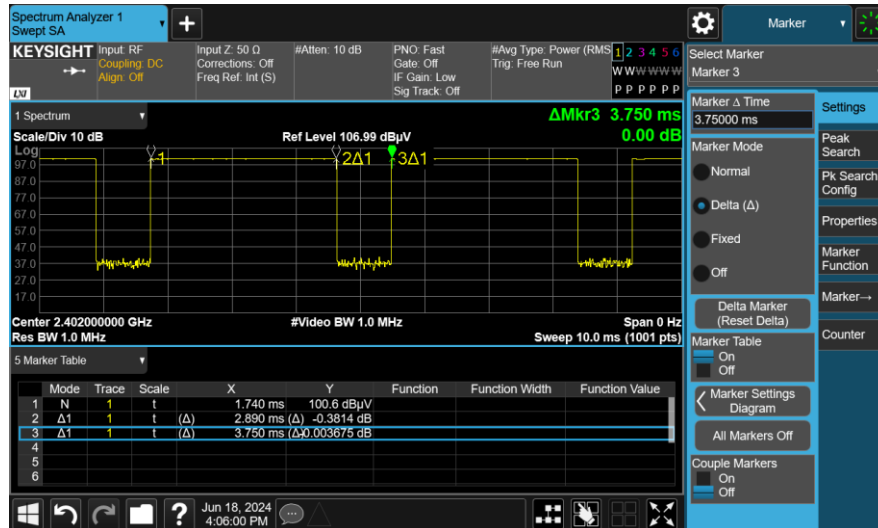
Mode	5																																																																																																		
	30-1G																																																																																																		
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																																																		
ANT	Printed																																																																																																		
Pol.	Horizontal																																																																																																		
QP																																																																																																			
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><td>1</td><td>48.43</td><td>22.47</td><td>40.00</td><td>-17.53</td><td>38.97</td><td>15.45</td><td>0.98</td><td>32.93</td><td>0.00</td><td>--- Peak</td></tr><tr><td>2</td><td>161.92</td><td>34.72</td><td>43.50</td><td>-8.78</td><td>49.18</td><td>16.38</td><td>1.85</td><td>32.69</td><td>0.00</td><td>--- Peak</td></tr><tr><td>3</td><td>239.52</td><td>24.63</td><td>46.00</td><td>-21.37</td><td>38.25</td><td>17.33</td><td>2.09</td><td>33.04</td><td>0.00</td><td>--- Peak</td></tr><tr><td>4</td><td>320.03</td><td>36.94</td><td>46.00</td><td>-9.06</td><td>47.34</td><td>19.85</td><td>2.64</td><td>32.89</td><td>0.00</td><td>--- Peak</td></tr><tr><td>5</td><td>399.57</td><td>37.46</td><td>46.00</td><td>-8.54</td><td>45.91</td><td>21.87</td><td>2.99</td><td>33.31</td><td>0.00</td><td>--- Peak</td></tr><tr><td>6</td><td>450.01</td><td>32.86</td><td>46.00</td><td>-13.14</td><td>39.89</td><td>22.95</td><td>3.14</td><td>33.12</td><td>0.00</td><td>--- Peak</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	1	48.43	22.47	40.00	-17.53	38.97	15.45	0.98	32.93	0.00	--- Peak	2	161.92	34.72	43.50	-8.78	49.18	16.38	1.85	32.69	0.00	--- Peak	3	239.52	24.63	46.00	-21.37	38.25	17.33	2.09	33.04	0.00	--- Peak	4	320.03	36.94	46.00	-9.06	47.34	19.85	2.64	32.89	0.00	--- Peak	5	399.57	37.46	46.00	-8.54	45.91	21.87	2.99	33.31	0.00	--- Peak	6	450.01	32.86	46.00	-13.14	39.89	22.95	3.14	33.12	0.00	--- Peak
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																										
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3	320.03	30.57	46.00	-15.43	40.97	19.85	2.64	32.89	0.00	--- Peak																																																																																									
4	462.62	28.35	46.00	-17.65	35.16	23.23	3.14	33.18	0.00	--- Peak																																																																																									
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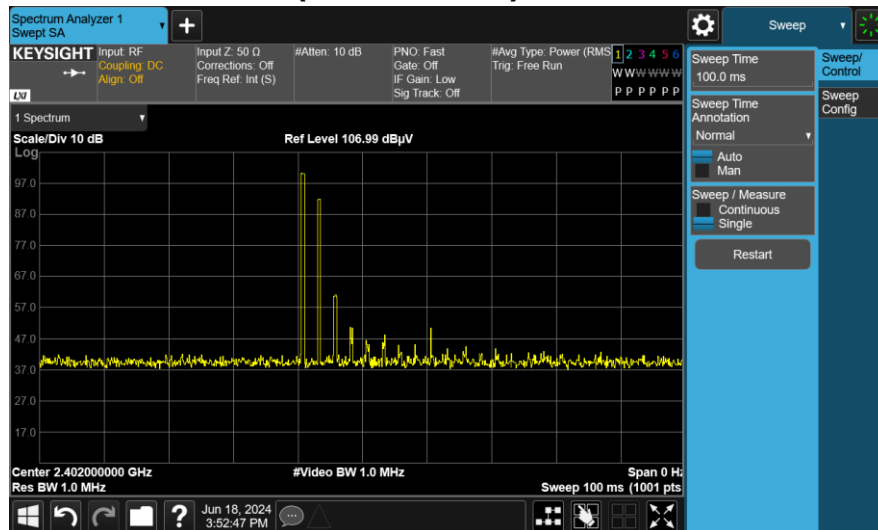
Appendix D. Duty Cycle Plots

Ant2 Printed Antenna:

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 on time (Count Pulses) Plot on Channel 00



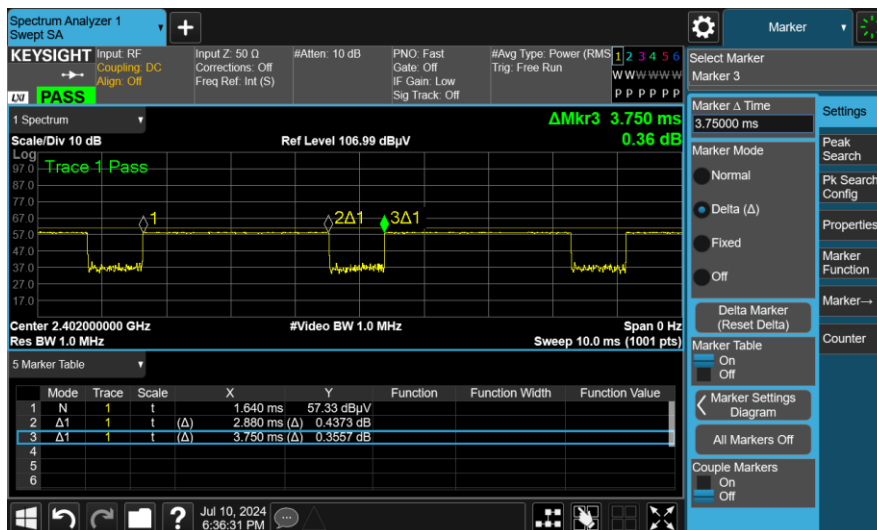
Note:

1. Worst case Duty cycle = on time/100 milliseconds = $1 * 2.89 / 100 = 2.89 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -30.78 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.

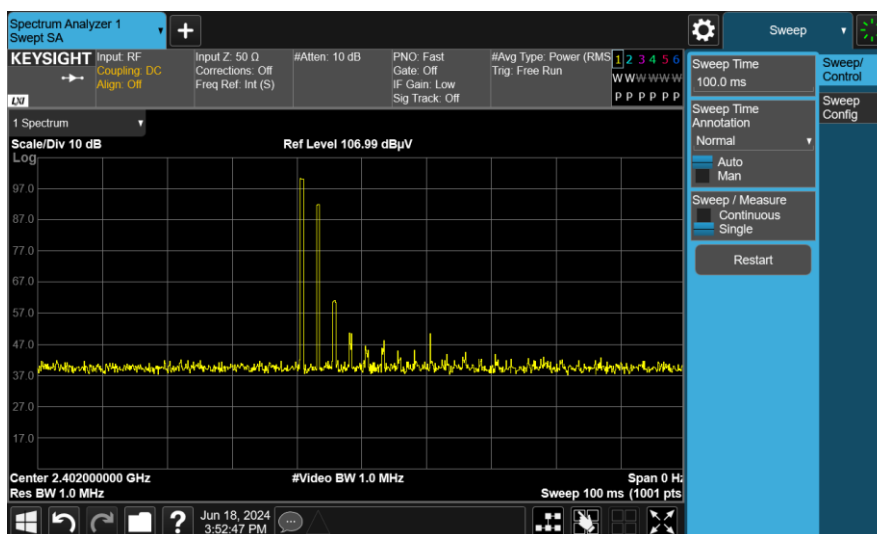


Ant1 Chip Antenna:

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $1 * 2.88 / 100 = 2.88 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -30.81 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.