



FCC RADIO TEST REPORT

FCC ID : A4RGGH2X
Equipment : Phone
Model Name : GGH2X, GC15S
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA 94043 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 05, 2024 and testing was performed from Feb. 07, 2024 to Mar. 29, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR3D2001N	01	Initial issue of report	May 10, 2024
FR3D2001N	02	1. Revise Section Product Feature of Equipment Under Test, Test Mode and Radiated Band Edges and Spurious Emission Measurement. 2. Revise Appendix A. This report is an updated version, replacing the report issued on May 10, 2024.	May 25, 2024
FR3D2001N	03	1. Revise Section Test Mode. 2. Revise Appendix A. This report is an updated version, replacing the report issued on May 25, 2024.	May 28, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	10.95 dB under the limit at 2483.52 MHz
3.6	15.207	AC Conducted Emission	Pass	3.49 dB under the limit at 0.18 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Mila Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, UWB, NFC, WPC Rx, NTN and GNSS
Antenna Type Bluetooth: <Ant.3> : IFA Antenna <Ant.4> : ILA Antenna

EUT Information List	
S/N	Performed Test Item
41251FDKD000B1	RF Conducted Measurement
41251FDKD0007K	Radiated Spurious Emission
	Conducted Emission

Antenna information (Open Mode)		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant.3: -3.30
		Ant.4: -3.50

Antenna information (Close Mode)		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant.3: -4.30
		Ant.4: -1.20

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 3	Ant 4	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Bluetooth EDR	-3.30	-1.20	0.82	0.82	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1} = -3.30$ dBi; $G_{ANT2} = -1.20$ dBi

Directional gain derived from formula which is

$$10 \times \log \left\{ \left[10^{(-3.30 \text{ dBi} / 20)} + 10^{(-1.20 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 0.82 \text{ dBi}$$

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

Note: The antenna gain is from both open mode and close mode with highest number.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH23-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

2.2 Test Mode

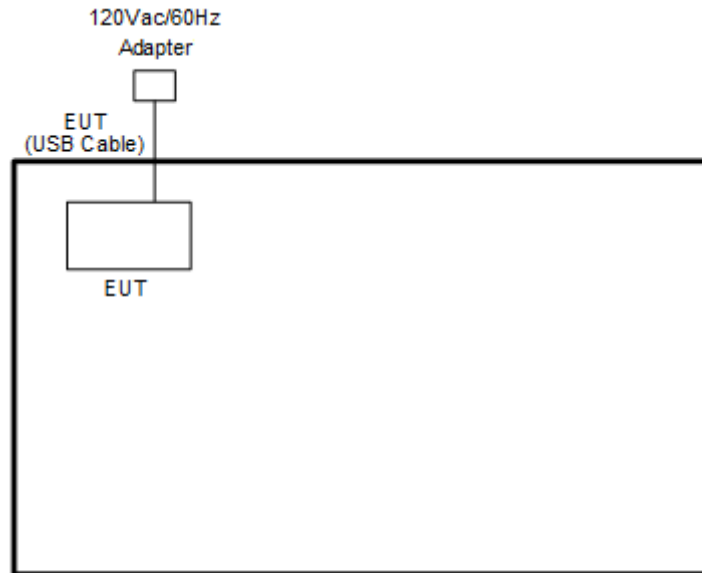
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT (Open and Close) and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find open mode X plane with Adapter as worst plane.
- b. The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.
- c. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

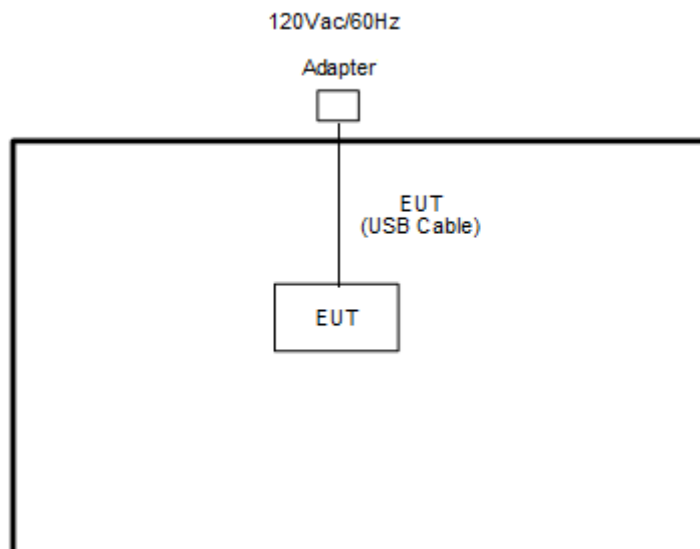
Summary table of Test Cases		
Test Item	Data Rate / Modulation	
Conducted Test Cases	Bluetooth EDR 2Mbps π /4-DQPSK	Bluetooth EDR 3Mbps 8-DPSK
	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz
	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz
Radiated Test Cases	Bluetooth EDR 3Mbps	
	Mode 1: CH00_2402 MHz	
	Mode 2: CH39_2441 MHz	
	Mode 3: CH78_2480 MHz	
AC Conducted Emission	Mode 1: Bluetooth Channel 39 Tx + USB Cable 1 (Charging from AC Adapter)	
Remark:		
1. For Radiated Test Cases, the tests were performed with USB Cable 1		
2. During the preliminary test, both charging modes (Adapter mode and WPC Rx Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test.		

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Bluetooth Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	Chicony	G9BR1	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "BT_DUT_Control_GUI.exe ver.01-01-26" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

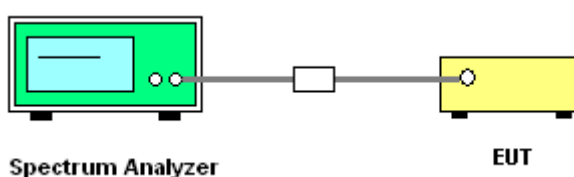
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

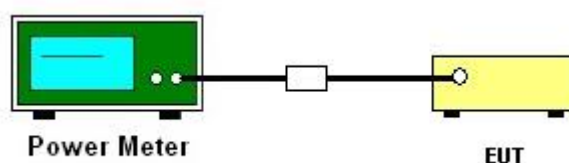
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1.
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator.
4. The path loss is compensated to the results for each measurement.
5. Set the maximum power setting and enable the EUT to transmit continuously.
6. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

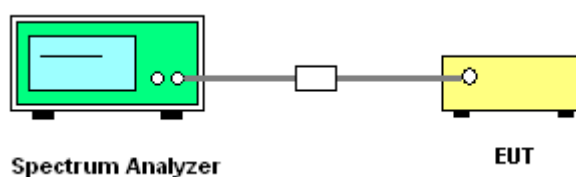
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

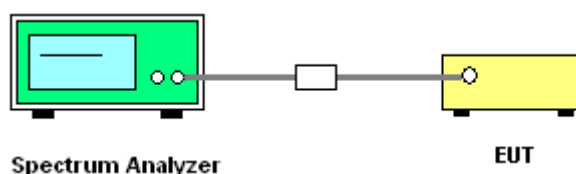
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
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.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. 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

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

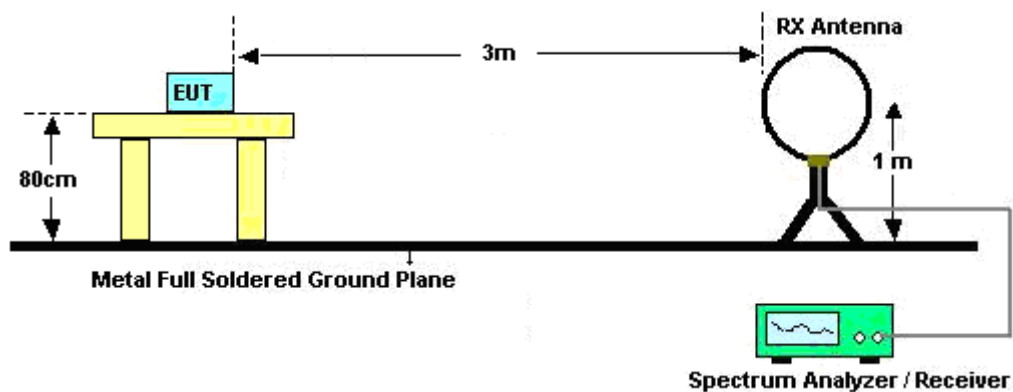


3.5.3 Test Procedures

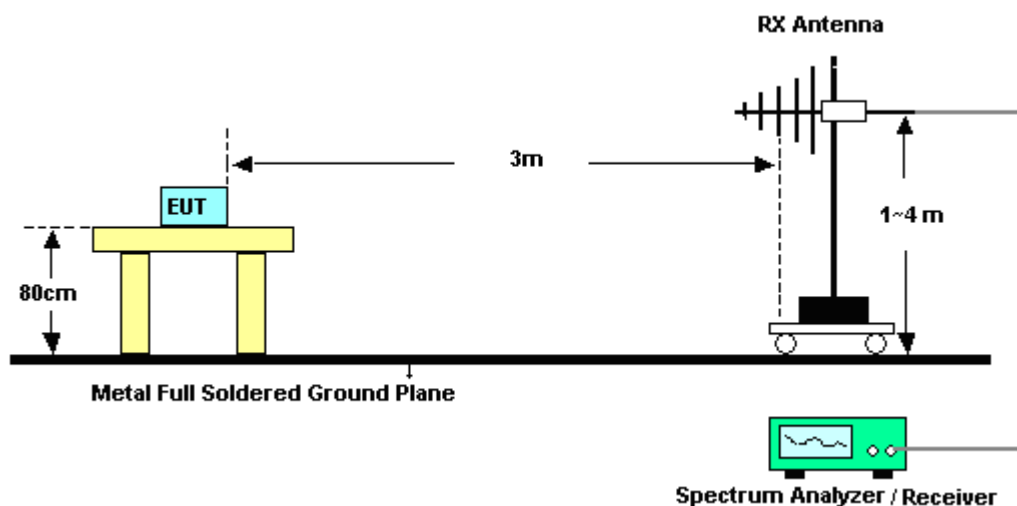
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. 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; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

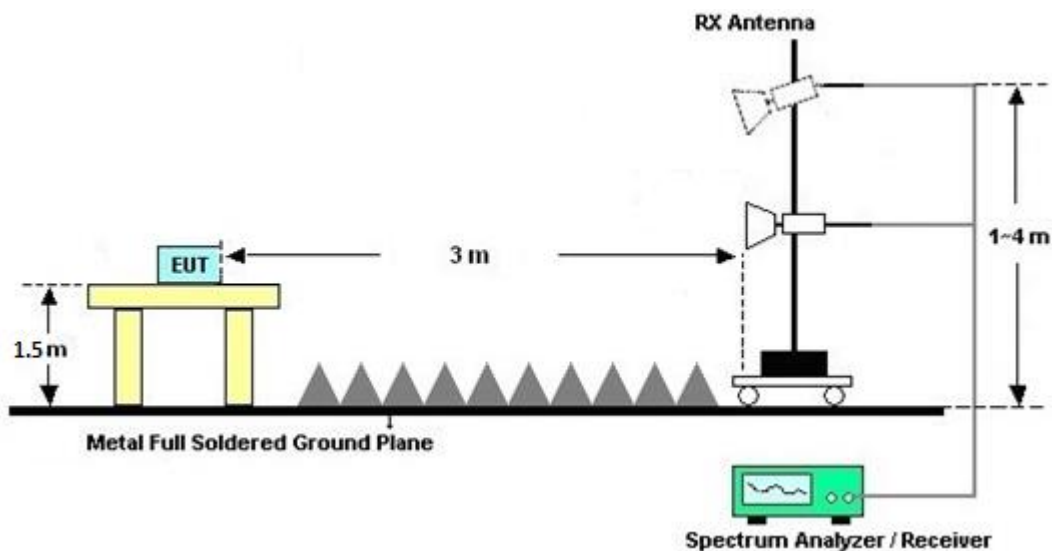
For radiated test below 30MHz



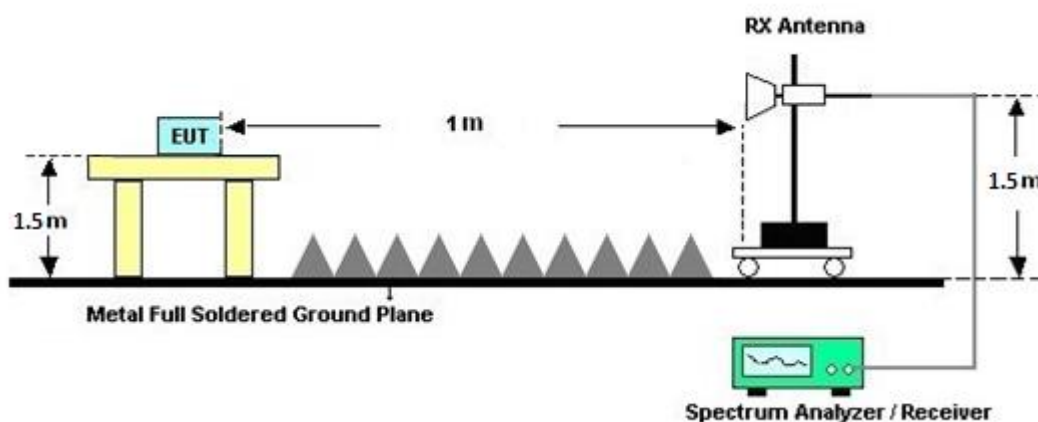
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 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 (dB μ V)	
	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.

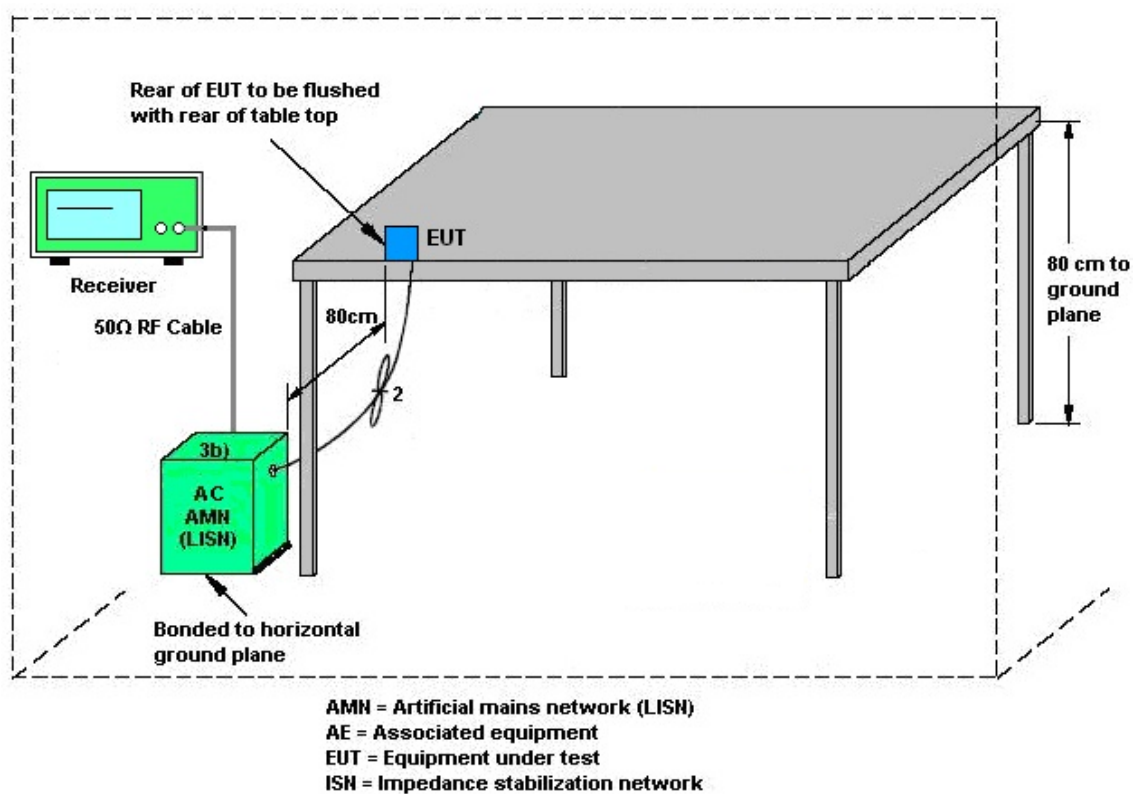
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Feb. 19, 2024~ Mar. 07, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 27, 2023	Feb. 19, 2024~ Mar. 07, 2024	Jul. 26, 2024	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 27, 2023	Feb. 19, 2024~ Mar. 07, 2024	Jul. 26, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2023	Feb. 19, 2024~ Mar. 07, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep 12, 2023	Feb. 07, 2024~ Mar. 29, 2024	Sep 11, 2024	Radiation (03CH23-HY)
Bilog Antenna with 6dB pad	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	N/A	Oct. 15, 2023	Feb. 07, 2024~ Mar. 29, 2024	Oct. 14, 2024	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	N/A	Jul. 15, 2023	Feb. 07, 2024~ Mar. 29, 2024	Jul. 14, 2024	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18 EN	1GHz~18GHz	Jul. 12, 2023	Feb. 07, 2024~ Mar. 29, 2024	Jul. 11, 2024	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBEC K	BBHA9170	1225	18GHz~40GHz	Jul. 10, 2023	Feb. 07, 2024~ Mar. 29, 2024	Jul. 09, 2024	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 28, 2023	Feb. 07, 2024~ Mar. 29, 2024	Sep. 27, 2024	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060871	18-40GHz	Aug. 30, 2023	Feb. 07, 2024~ Mar. 29, 2024	Aug. 29, 2024	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Aug. 17, 2023	Feb. 07, 2024~ Mar. 29, 2024	Aug. 16, 2024	Radiation (03CH23-HY)
Hygrometer	TECEPEL	DTM-303B	TP211542	N/A	Oct. 30, 2023	Feb. 07, 2024~ Mar. 29, 2024	Oct. 29, 2024	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 07, 2024~ Mar. 29, 2024	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 07, 2024~ Mar. 29, 2024	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 07, 2024~ Mar. 29, 2024	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824 2019 122	RK-002348	N/A	N/A	Feb. 07, 2024~ Mar. 29, 2024	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Feb. 07, 2024~ Mar. 05, 2024	Mar. 06, 2024	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Mar. 06, 2024~ Mar. 29, 2024	Mar. 05, 2025	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 27, 2023	Feb. 07, 2024~ Mar. 29, 2024	Nov. 26, 2024	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/2311 19/231122	N/A	Nov. 27, 2023	Feb. 07, 2024~ Mar. 29, 2024	Nov. 26, 2024	Radiation (03CH23-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 20, 2024~ Mar. 22, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 20, 2024~ Mar. 22, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBEC K	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2023	Mar. 20, 2024~ Mar. 22, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Mar. 20, 2024~ Mar. 22, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Mar. 20, 2024~ Mar. 22, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Mar. 20, 2024~ Mar. 22, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Mar. 20, 2024~ Mar. 22, 2024	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2024/2/19~2024/3/7	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass /Fail
					Ant3	Ant4	Ant3	Ant4		
2DH	2Mbps	2	0	2402	1.195	1.195	1.083	1.078	0.50	Pass
2DH	2Mbps	2	39	2441	1.195	1.195	1.086	1.081	0.50	Pass
2DH	2Mbps	2	78	2480	1.195	1.195	1.078	1.090	0.50	Pass
3DH	3Mbps	2	0	2402	1.175	1.175	1.070	1.070	0.50	Pass
3DH	3Mbps	2	39	2441	1.175	1.175	1.076	1.070	0.50	Pass
3DH	3Mbps	2	78	2480	1.171	1.171	1.070	1.072	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)	DG (dBi)	Total EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant3	Ant4	SUM					
2DH	2Mbps	2	0	2402	20.07	20.27	23.18	30.00	0.82	24.00	36.00	Pass
2DH	2Mbps	2	39	2441	20.25	19.92	23.10	30.00	0.82	23.92	36.00	Pass
2DH	2Mbps	2	78	2480	19.70	20.08	22.90	30.00	0.82	23.72	36.00	Pass
3DH	3Mbps	2	0	2402	20.70	21.10	23.91	30.00	0.82	24.73	36.00	Pass
3DH	3Mbps	2	39	2441	20.55	20.35	23.46	30.00	0.82	24.28	36.00	Pass
3DH	3Mbps	2	78	2480	20.07	20.50	23.30	30.00	0.82	24.12	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Duty Factor (dB)
					Ant3	Ant4	SUM	
2DH	2Mbps	2	0	2402	17.96	17.93	20.96	5.08
2DH	2Mbps	2	39	2441	17.69	17.44	20.58	5.08
2DH	2Mbps	2	78	2480	17.46	17.53	20.51	5.08
3DH	3Mbps	2	0	2402	17.86	18.05	20.97	5.08
3DH	3Mbps	2	39	2441	17.78	17.49	20.65	5.08
3DH	3Mbps	2	78	2480	17.41	17.61	20.52	5.08

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	Peak PSD Worst +3.01 (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass /Fail
2DH	2Mbps	2	0	2402	17.28	3.59	6.60	0.82	8.00	Pass
2DH	2Mbps	2	39	2441	17.39	3.42	6.43	0.82	8.00	Pass
2DH	2Mbps	2	78	2480	16.79	3.40	6.41	0.82	8.00	Pass
3DH	3Mbps	2	0	2402	18.03	4.35	7.36	0.82	8.00	Pass
3DH	3Mbps	2	39	2441	18.04	4.44	7.45	0.82	8.00	Pass
3DH	3Mbps	2	78	2480	17.27	3.65	6.66	0.82	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

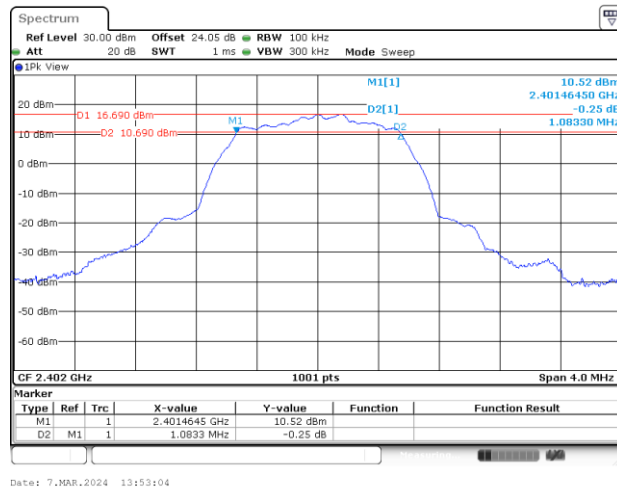


Number of TX = 2, Ant. 3 (Measured)

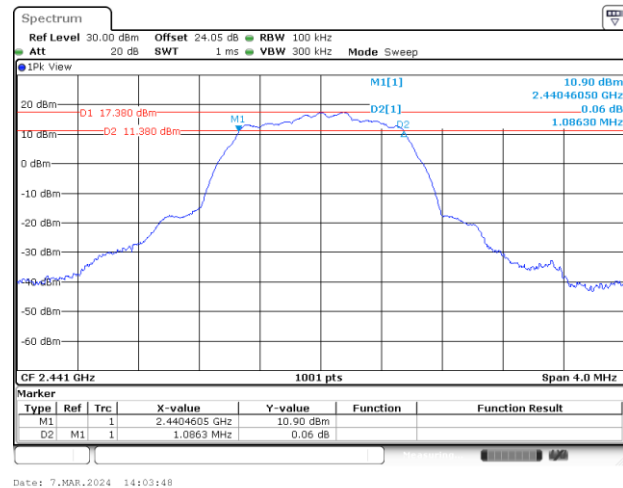
6dB Bandwidth

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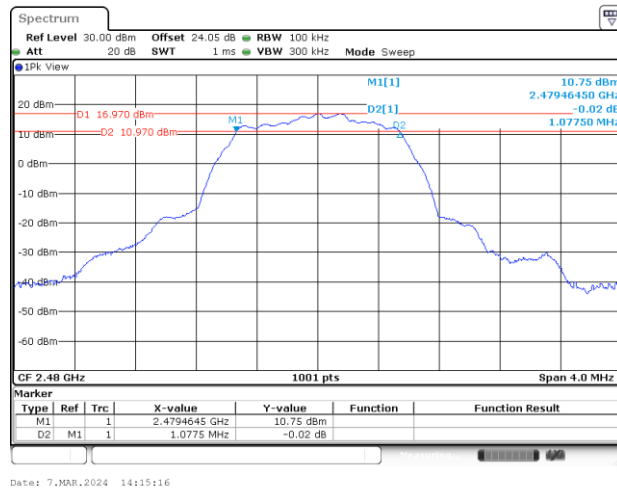
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 39



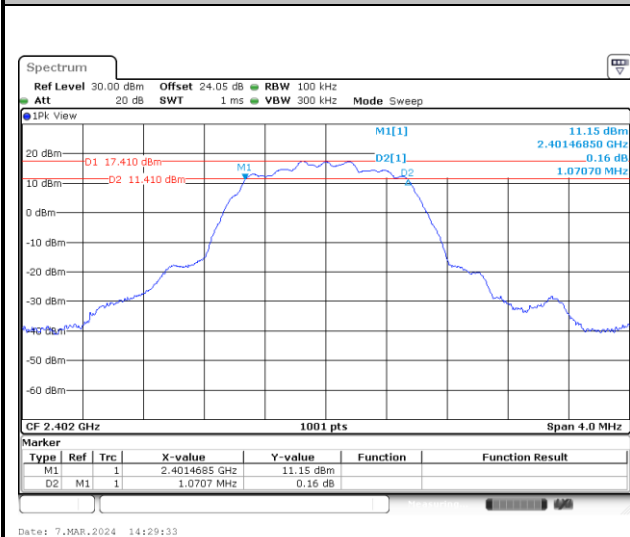
6 dB Bandwidth Plot on Channel 78



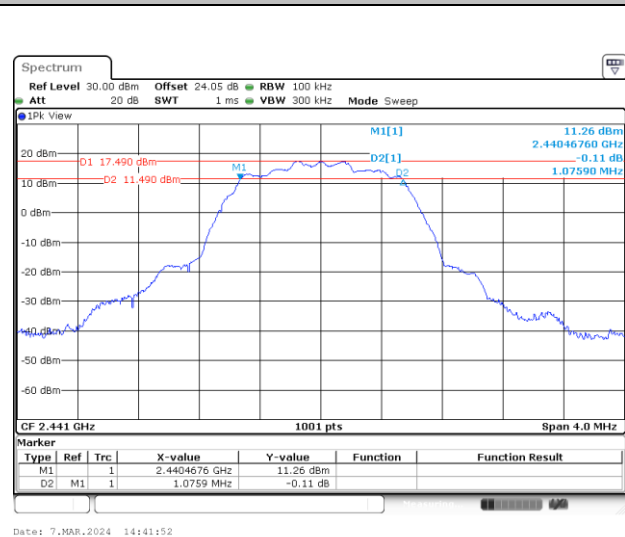


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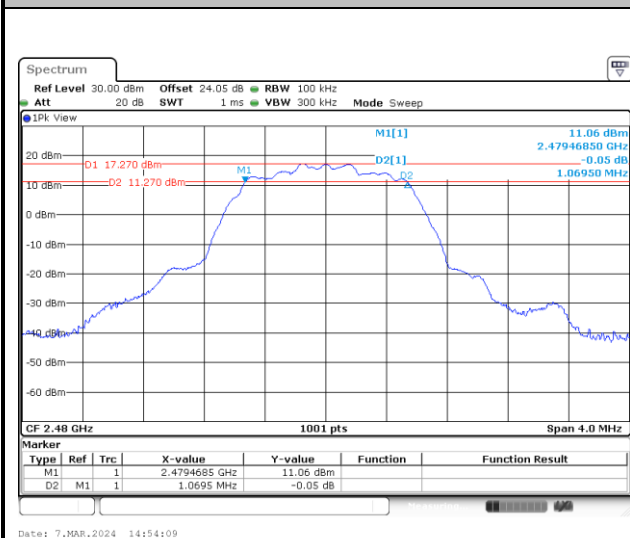
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 39

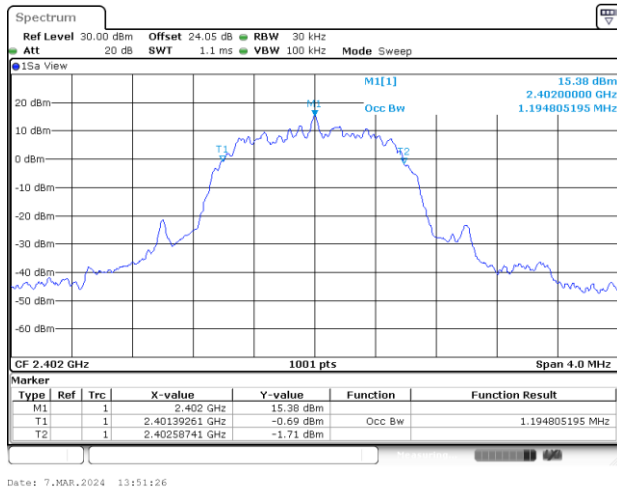
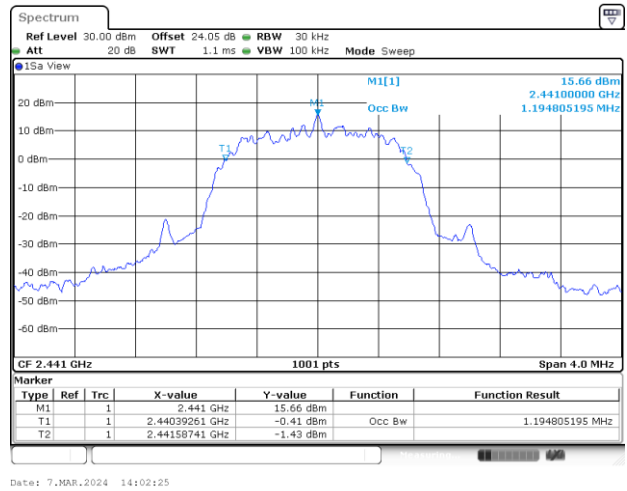
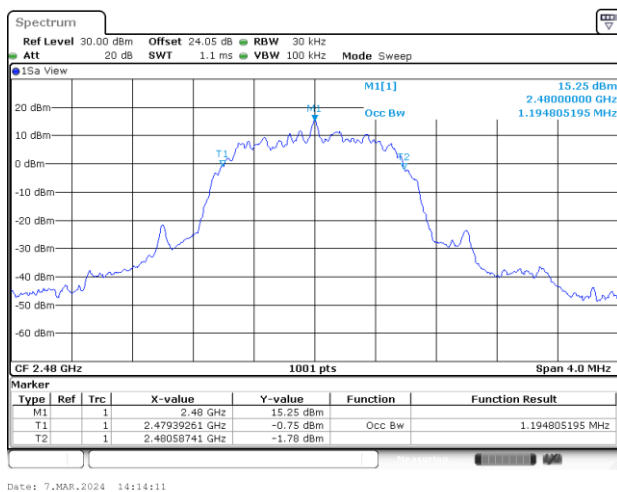


6 dB Bandwidth Plot on Channel 78



**99% Occupied Bandwidth**

<2Mbps>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Plot Bandwidth on Channel 39****99% Occupied Bandwidth Plot on Channel 78**

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



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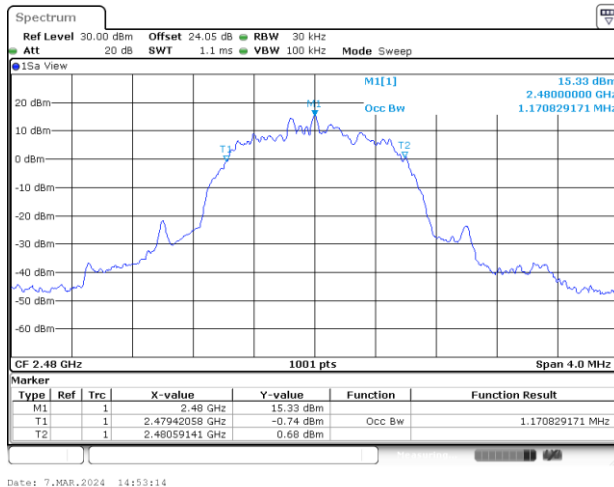
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Plot Bandwidth on Channel 39

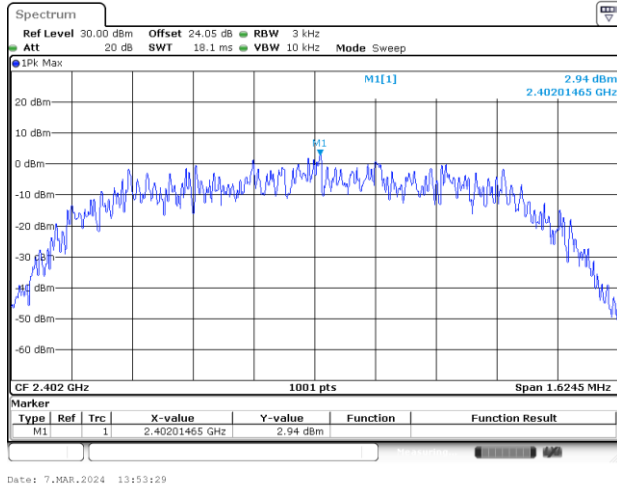
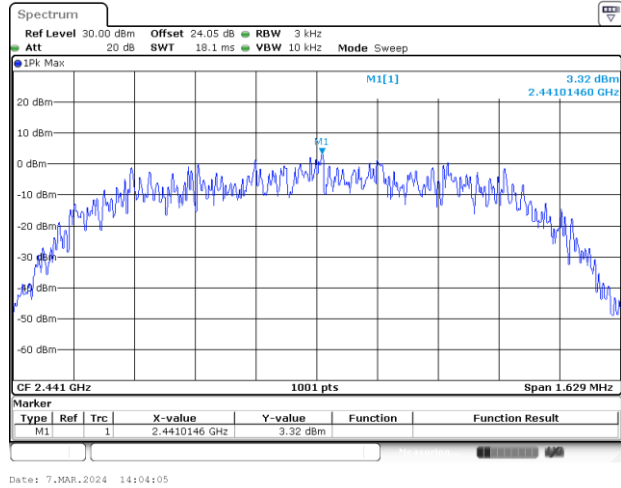
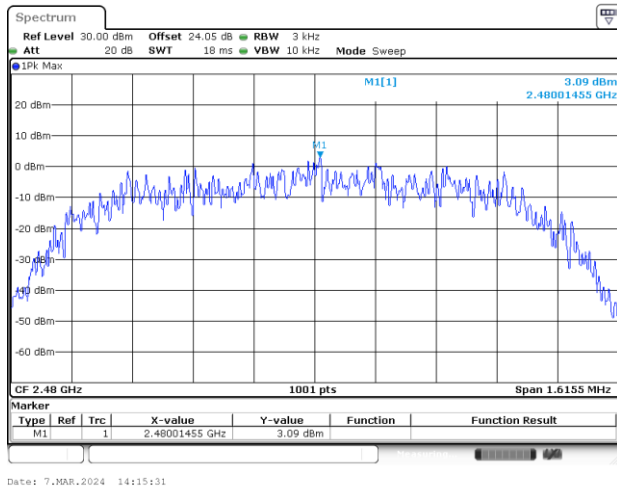


99% Occupied Bandwidth Plot on Channel 78



**Power Spectral Density (dBm/3kHz)**

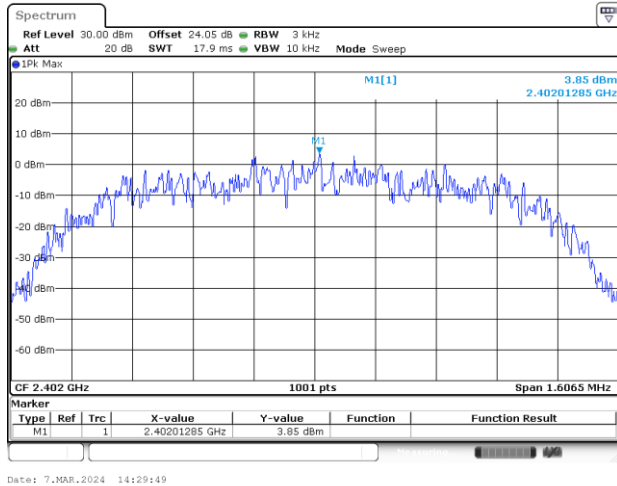
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Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 39****Power Density (dBm/3kHz) Plot Channel 78**

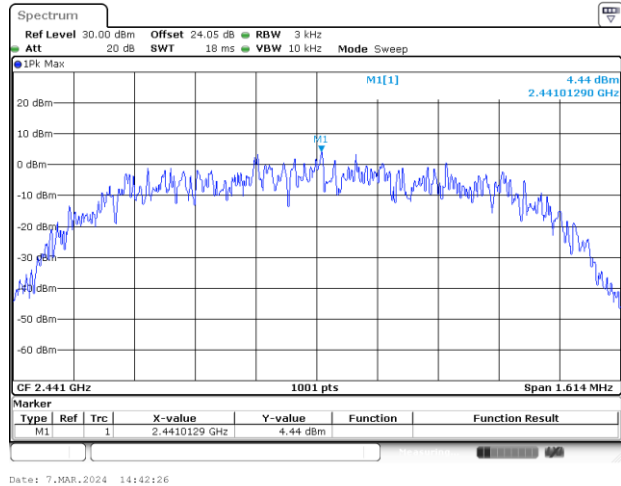


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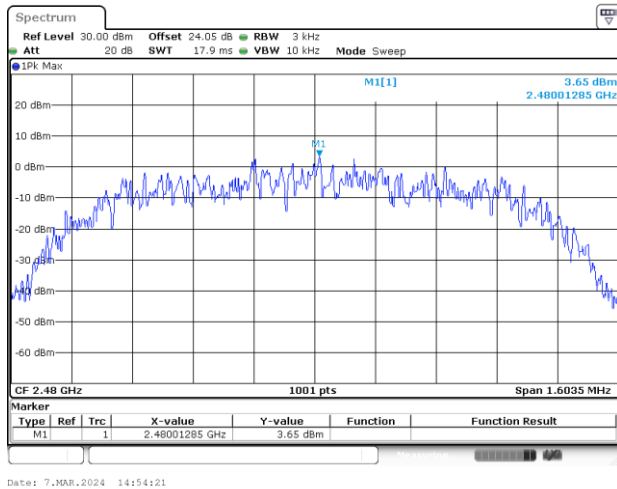
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 39

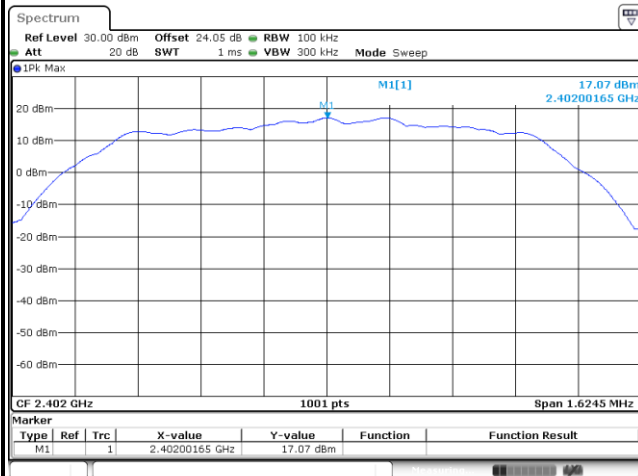
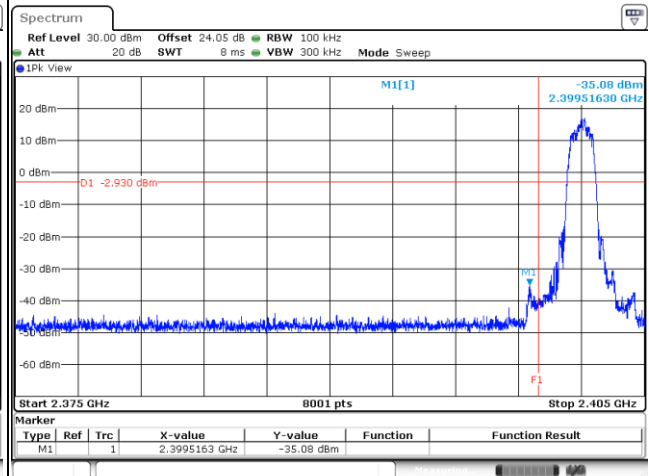
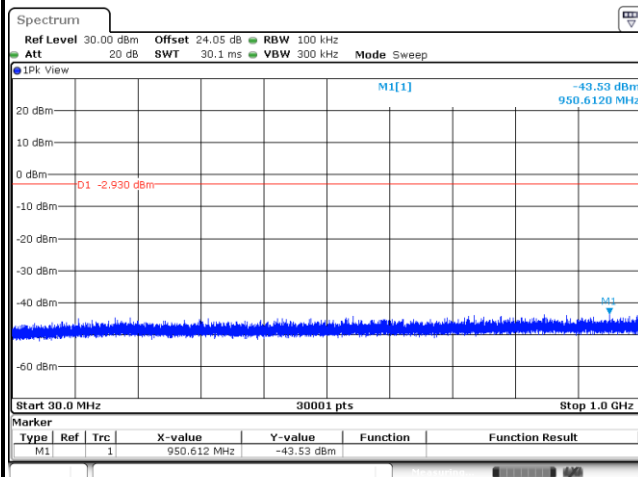
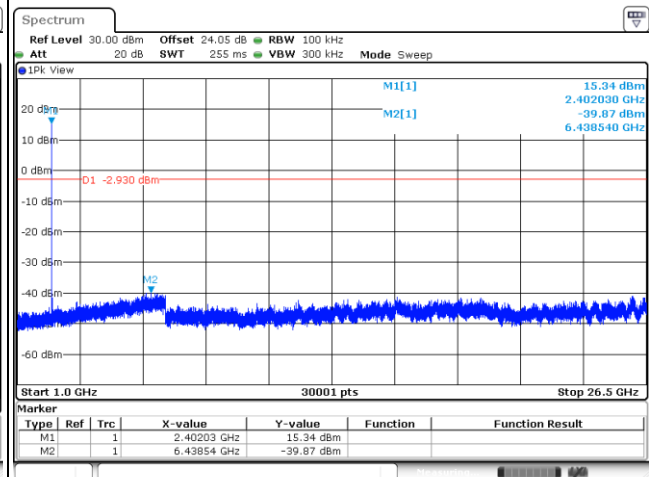


Power Density (dBm/3kHz) Plot Channel 78



**Band Edge and Spurious Emission**

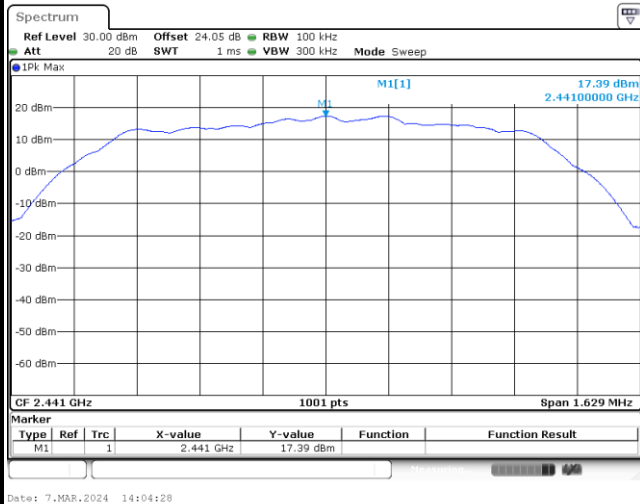
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Channel 00**100kHz PSD reference Level Plot****Low Channel Plot****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**



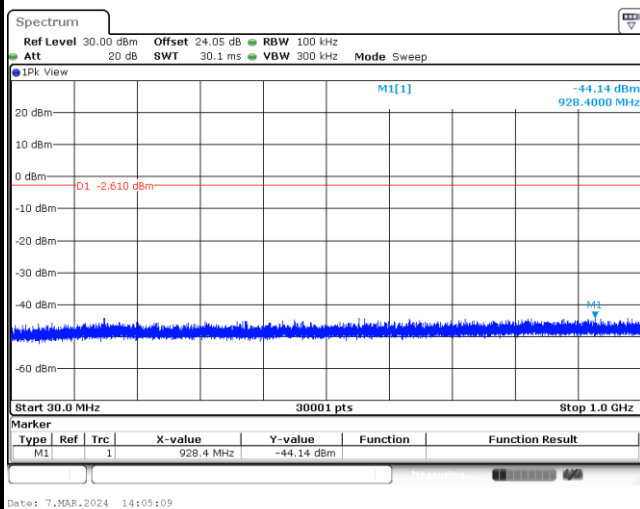
Channel 39

100kHz PSD reference Level Plot

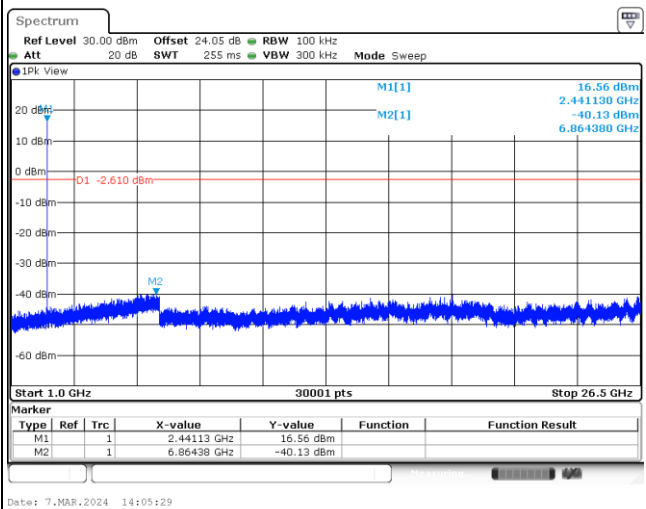


Middle Channel Plot

Spurious Emission 30MHz~1GHz Plot



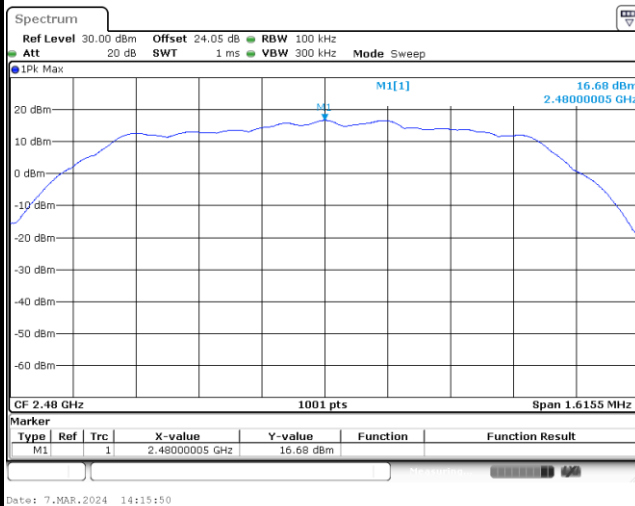
Spurious Emission 1GHz~26.5GHz Plot



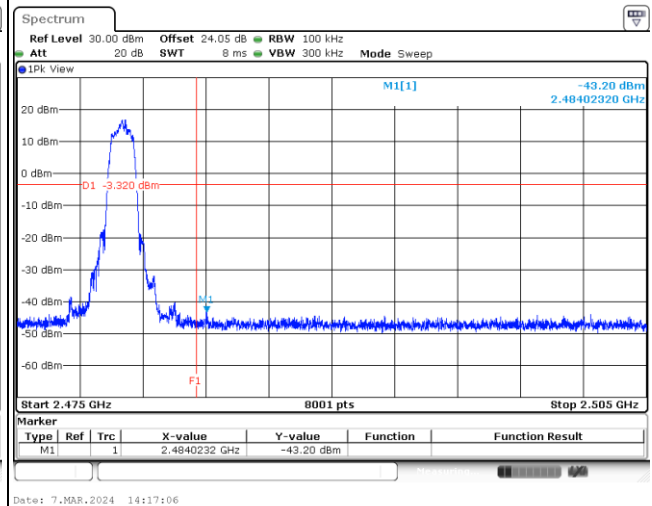


Channel 78

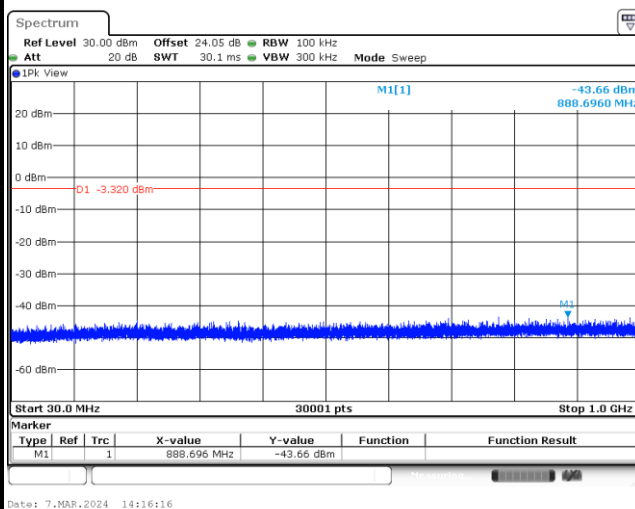
100kHz PSD reference Level Plot



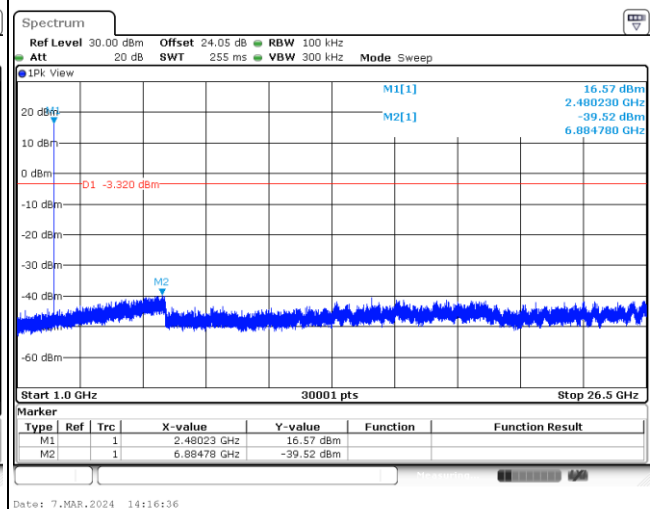
High Channel Plot



Spurious Emission 30MHz~1GHz Plot

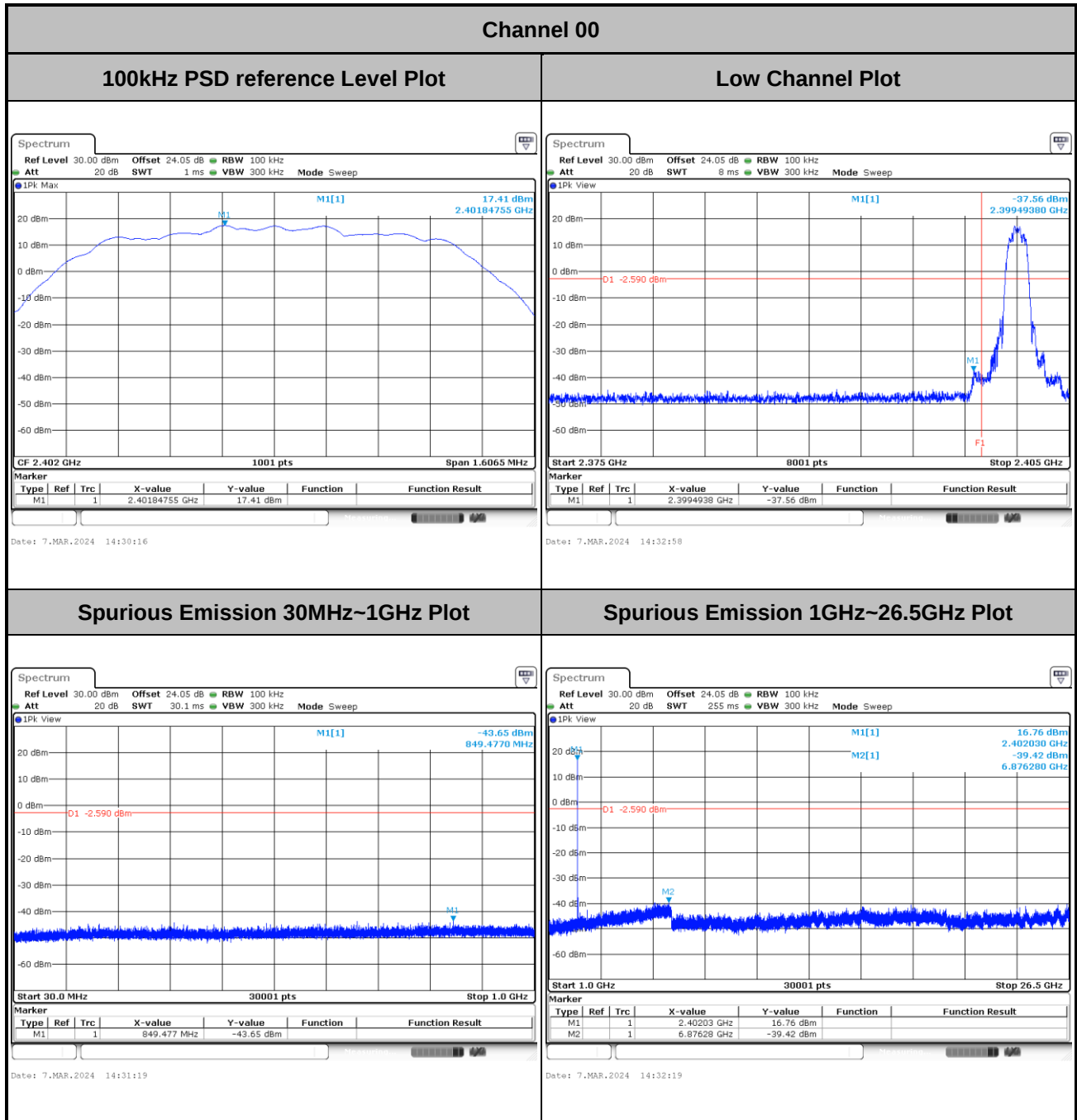


Spurious Emission 1GHz~26.5GHz Plot





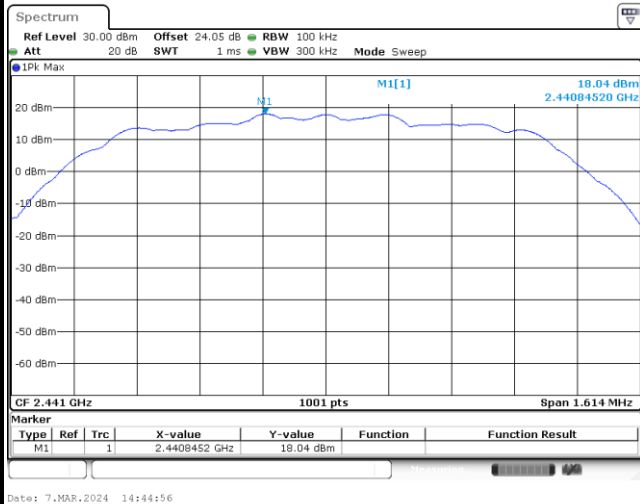
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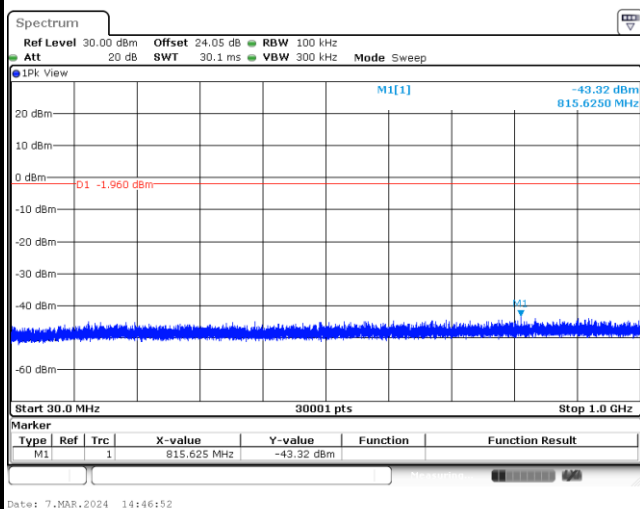
Channel 39

100kHz PSD reference Level Plot

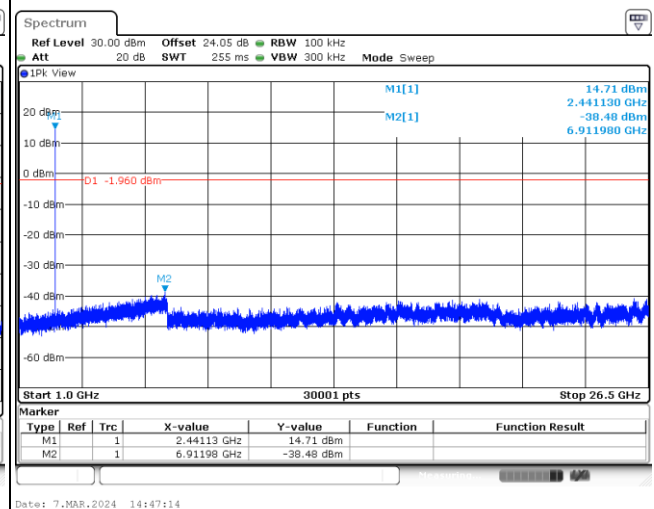


Middle Channel Plot

Spurious Emission 30MHz~1GHz Plot



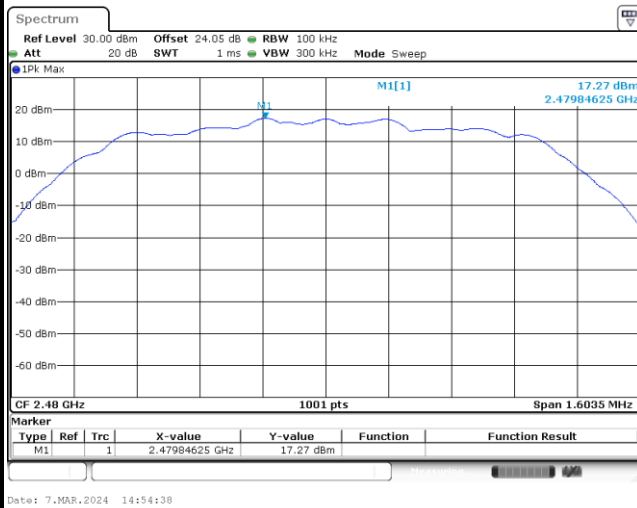
Spurious Emission 1GHz~26.5GHz Plot



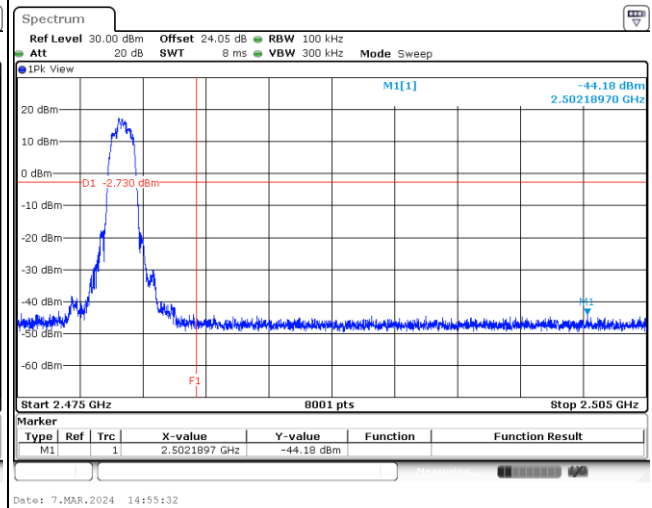


Channel 78

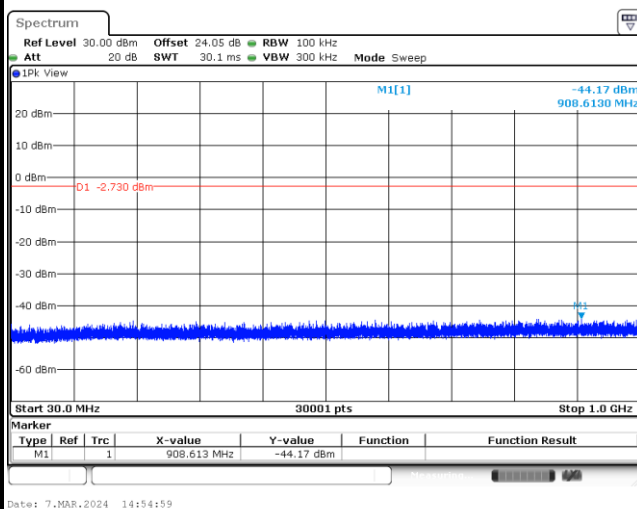
100kHz PSD reference Level Plot



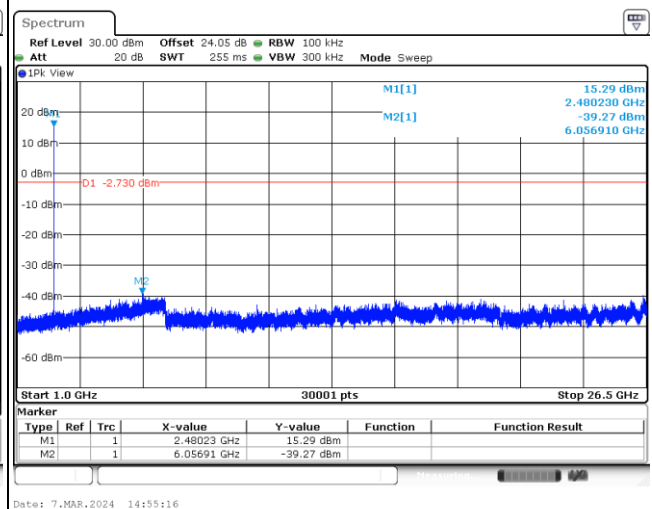
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



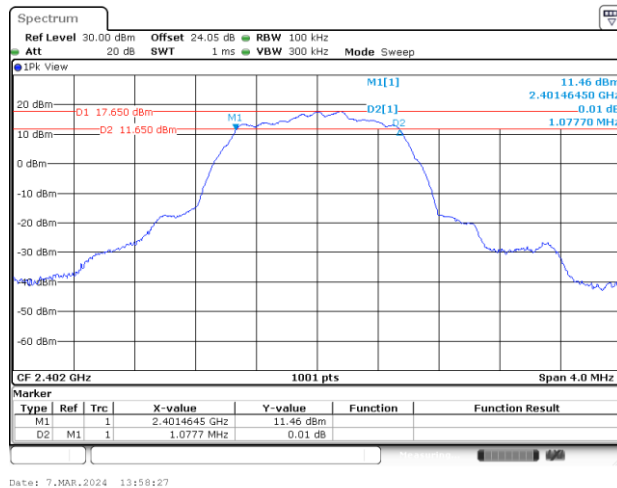


Number of TX = 2, Ant. 4 (Measured)

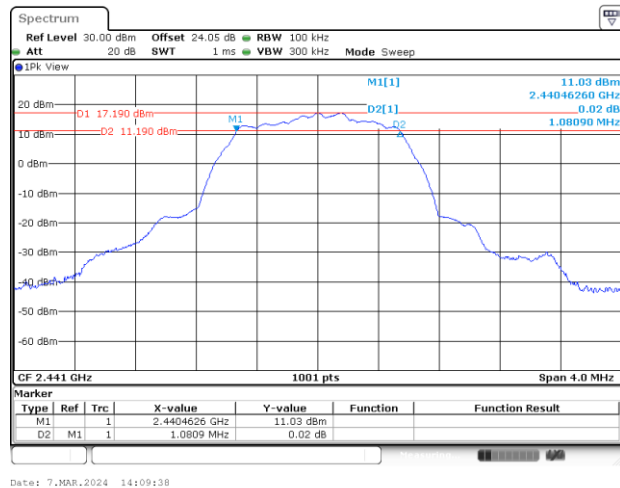
6dB Bandwidth

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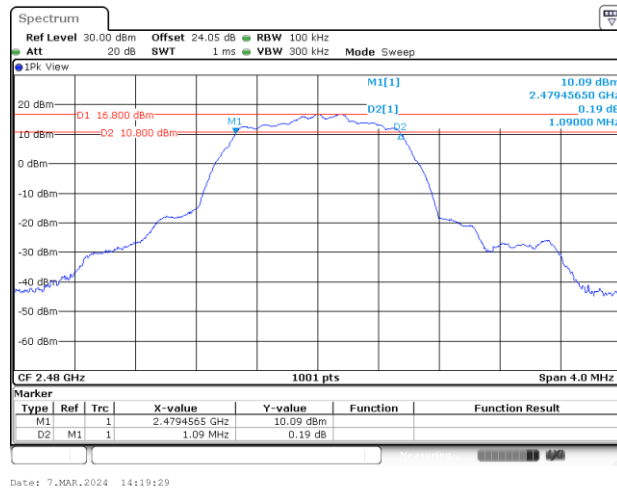
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 39



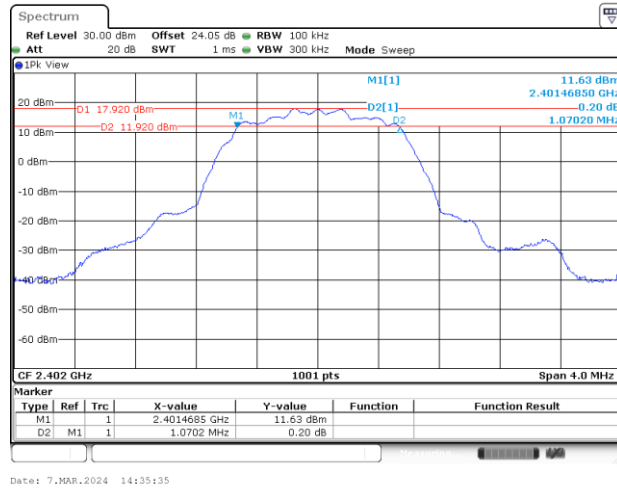
6 dB Bandwidth Plot on Channel 78



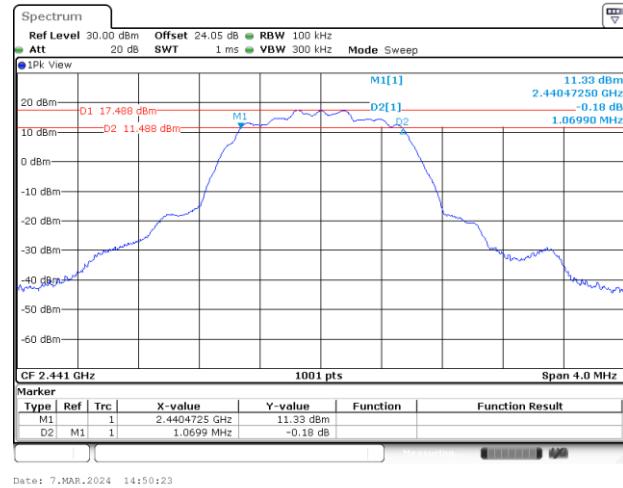


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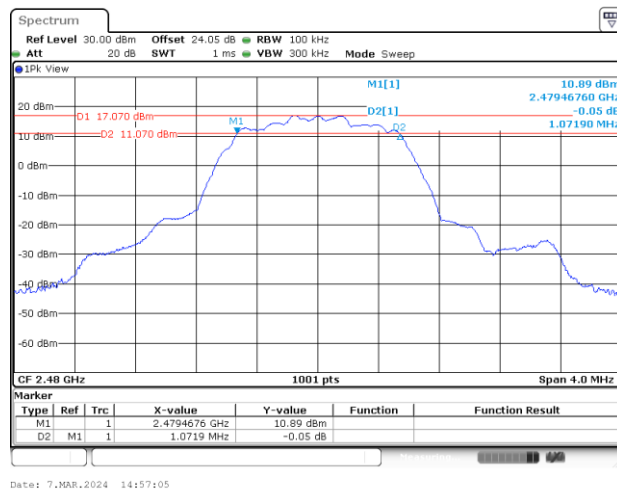
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 39

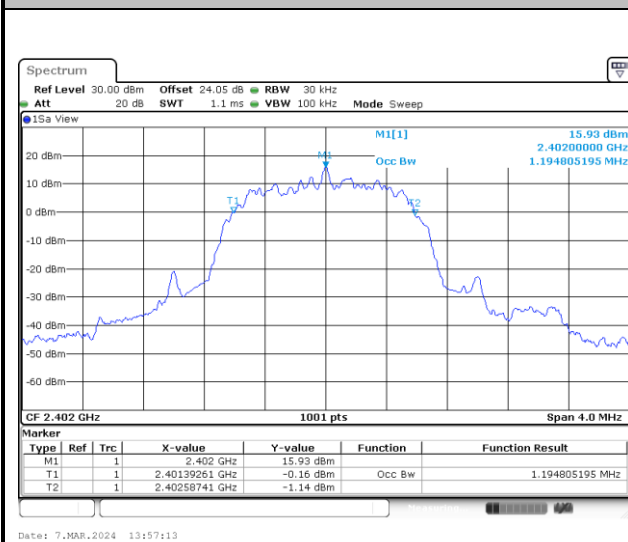
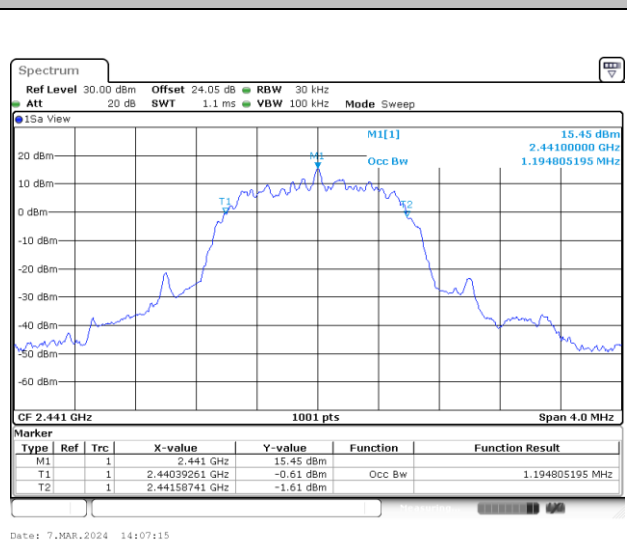
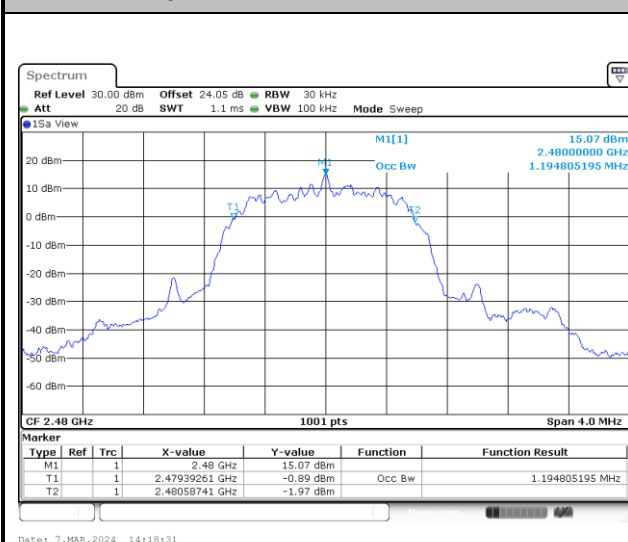


6 dB Bandwidth Plot on Channel 78



**99% Occupied Bandwidth**

<2Mbps>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Plot Bandwidth on Channel 39****99% Occupied Bandwidth Plot on Channel 78****Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

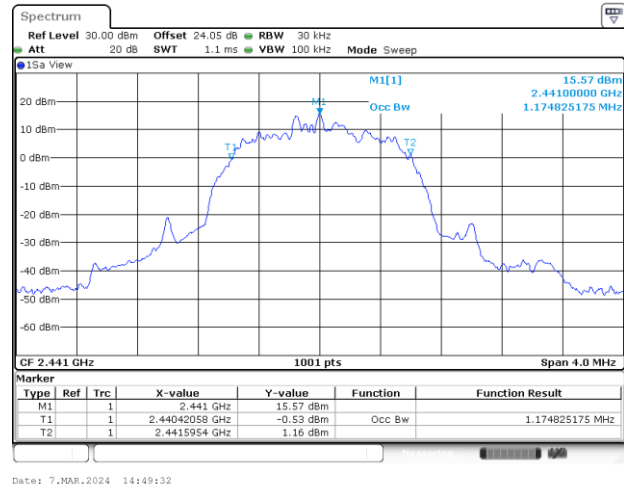


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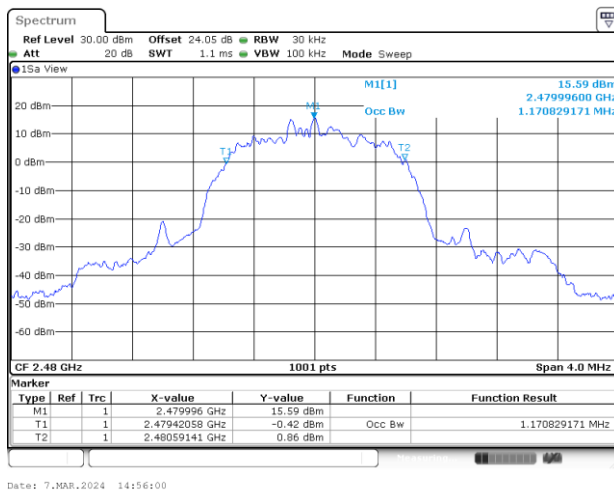
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Plot Bandwidth on Channel 39

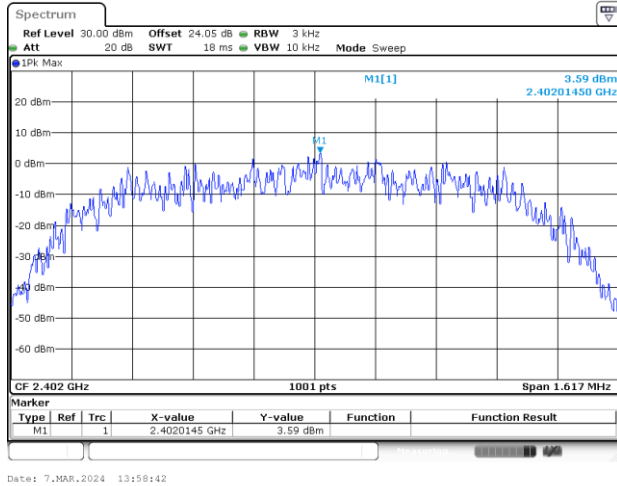
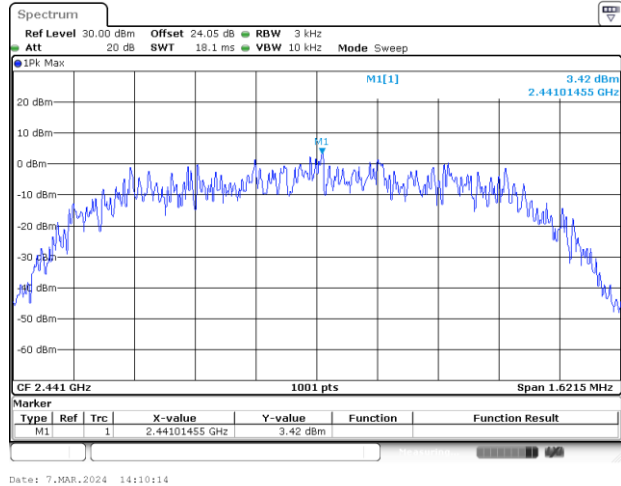
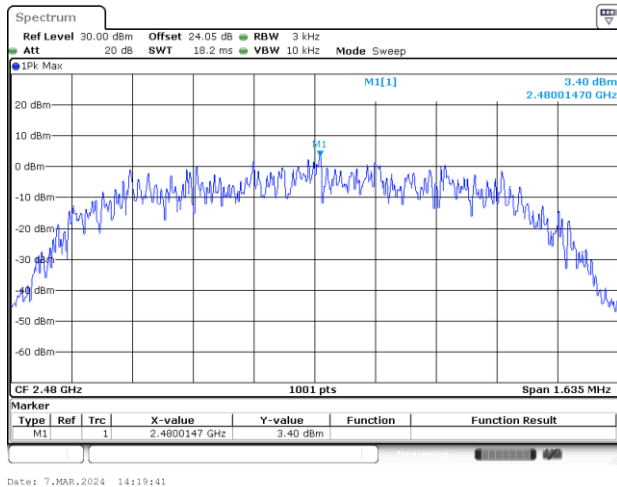


99% Occupied Bandwidth Plot on Channel 78



**Power Spectral Density (dBm/3kHz)**

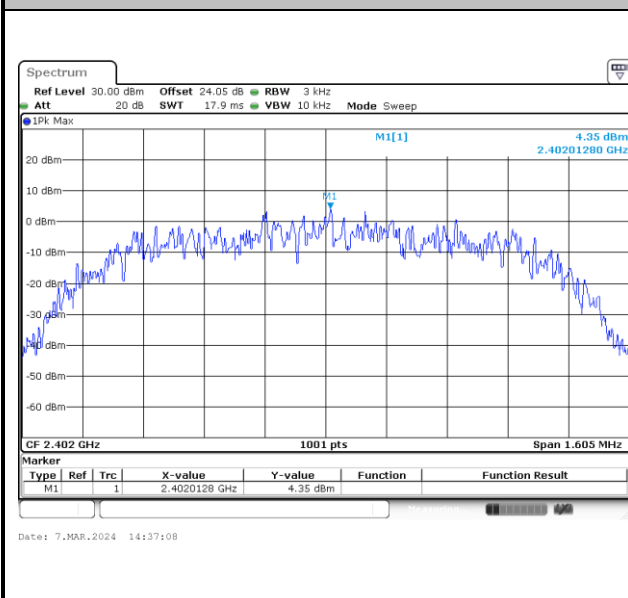
<2Mbps>

Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 39****Power Density (dBm/3kHz) Plot Channel 78**

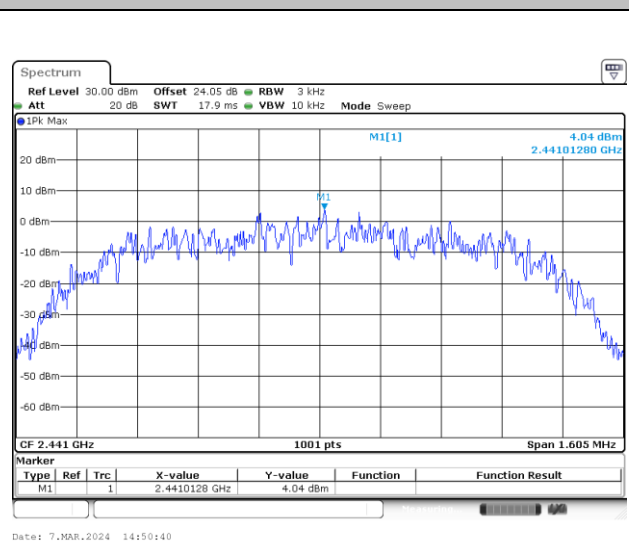


<3Mbps>

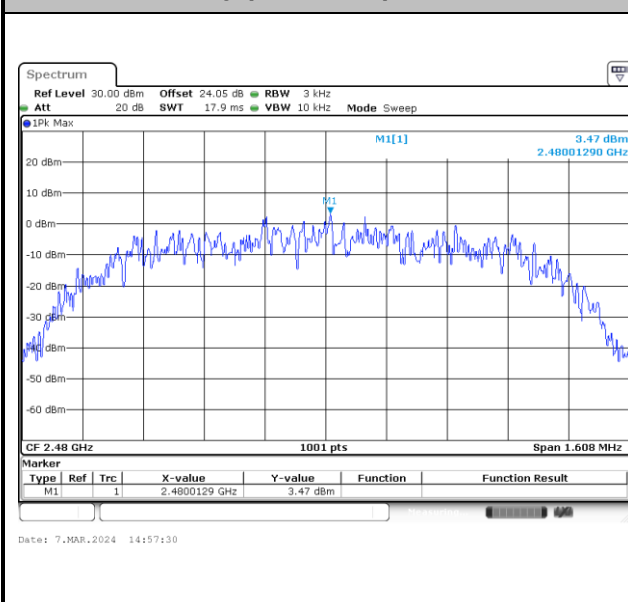
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 39

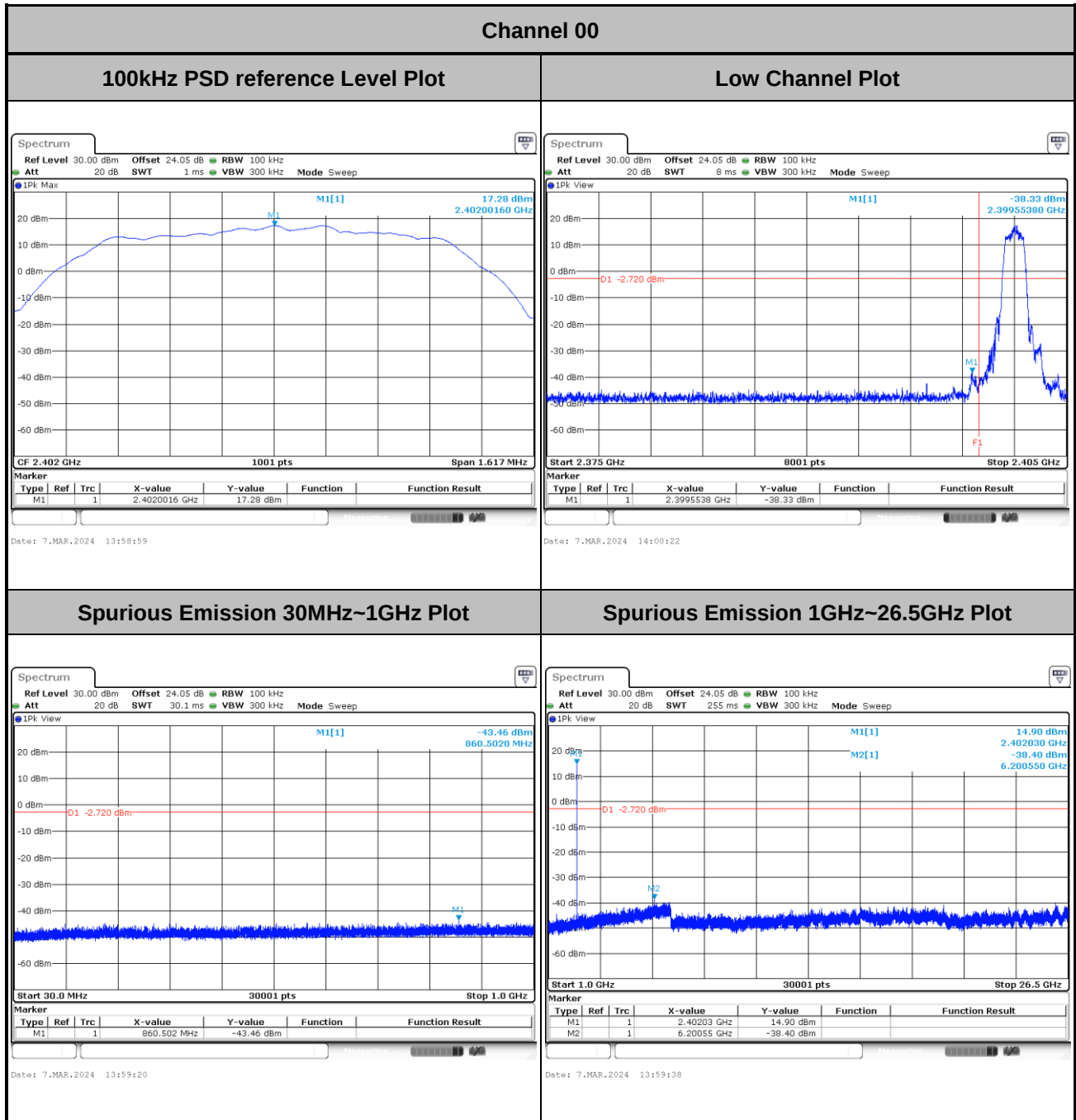


Power Density (dBm/3kHz) Plot Channel 78



**Band Edge and Spurious Emission**

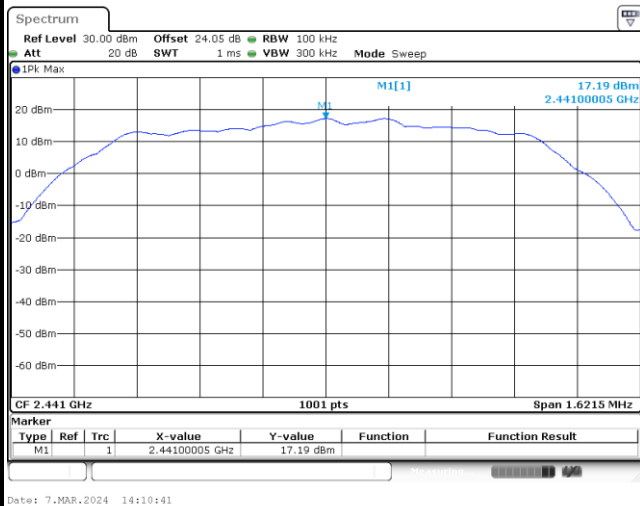
<2Mbps>





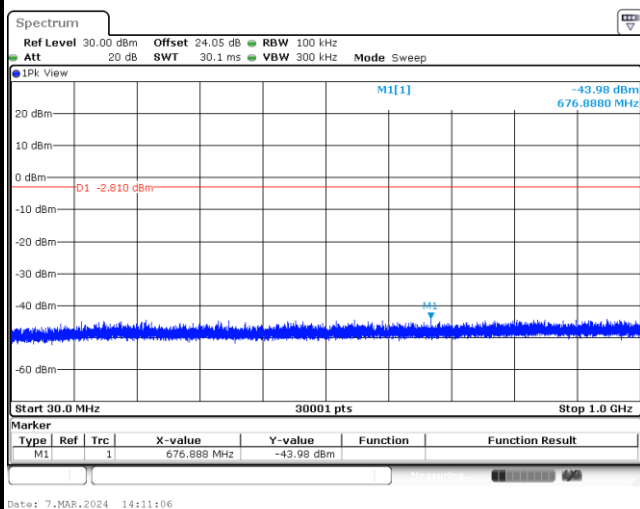
Channel 39

100kHz PSD reference Level Plot

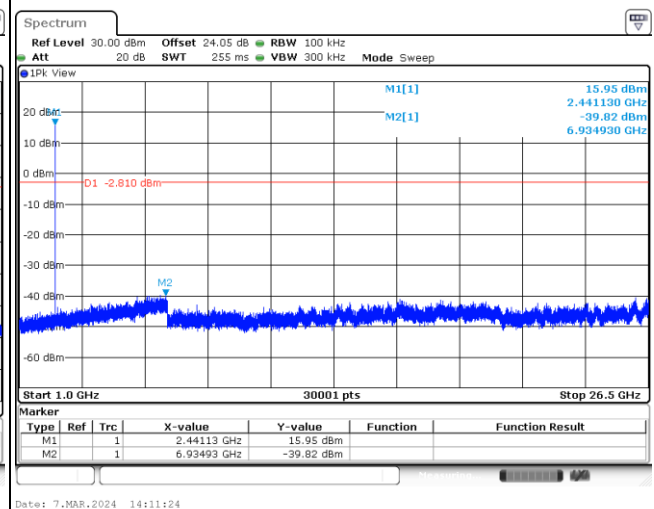


Middle Channel Plot

Spurious Emission 30MHz~1GHz Plot



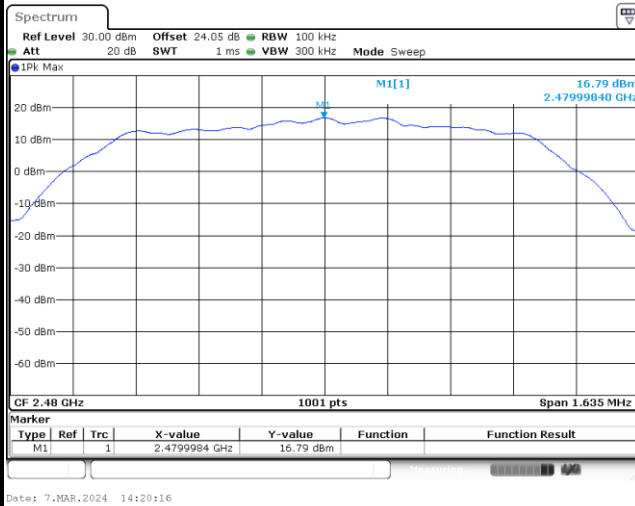
Spurious Emission 1GHz~26.5GHz Plot



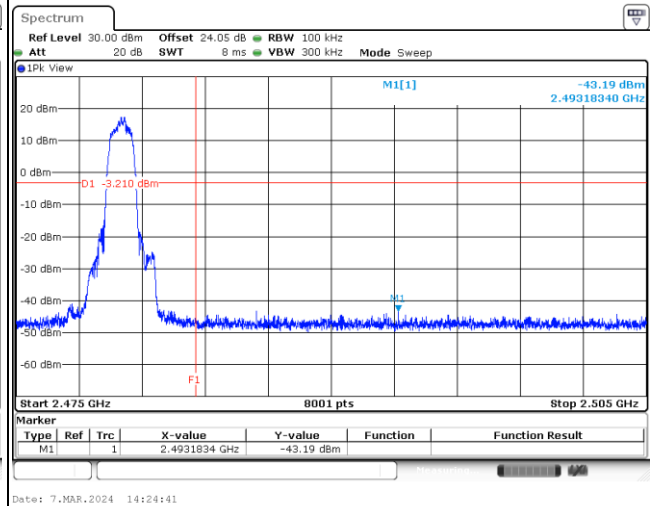


Channel 78

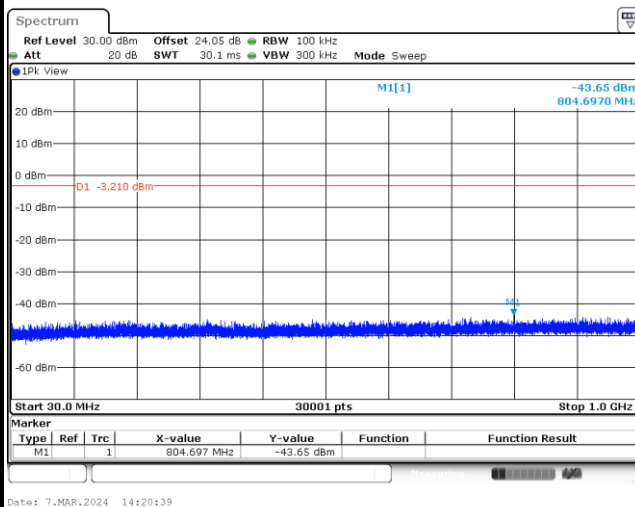
100kHz PSD reference Level Plot



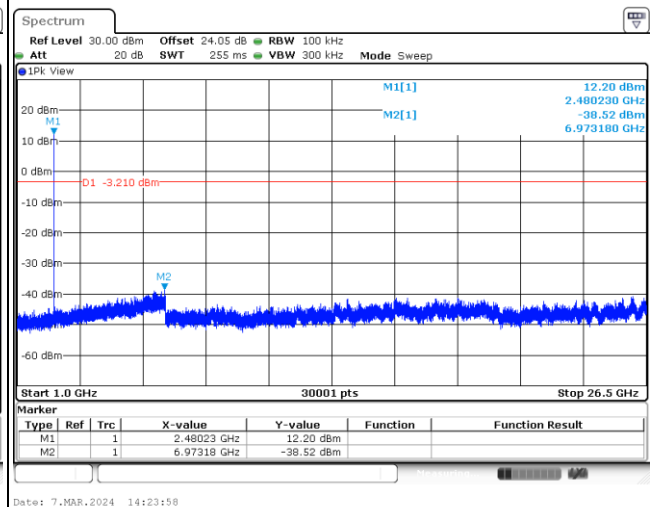
High Channel Plot



Spurious Emission 30MHz~1GHz Plot

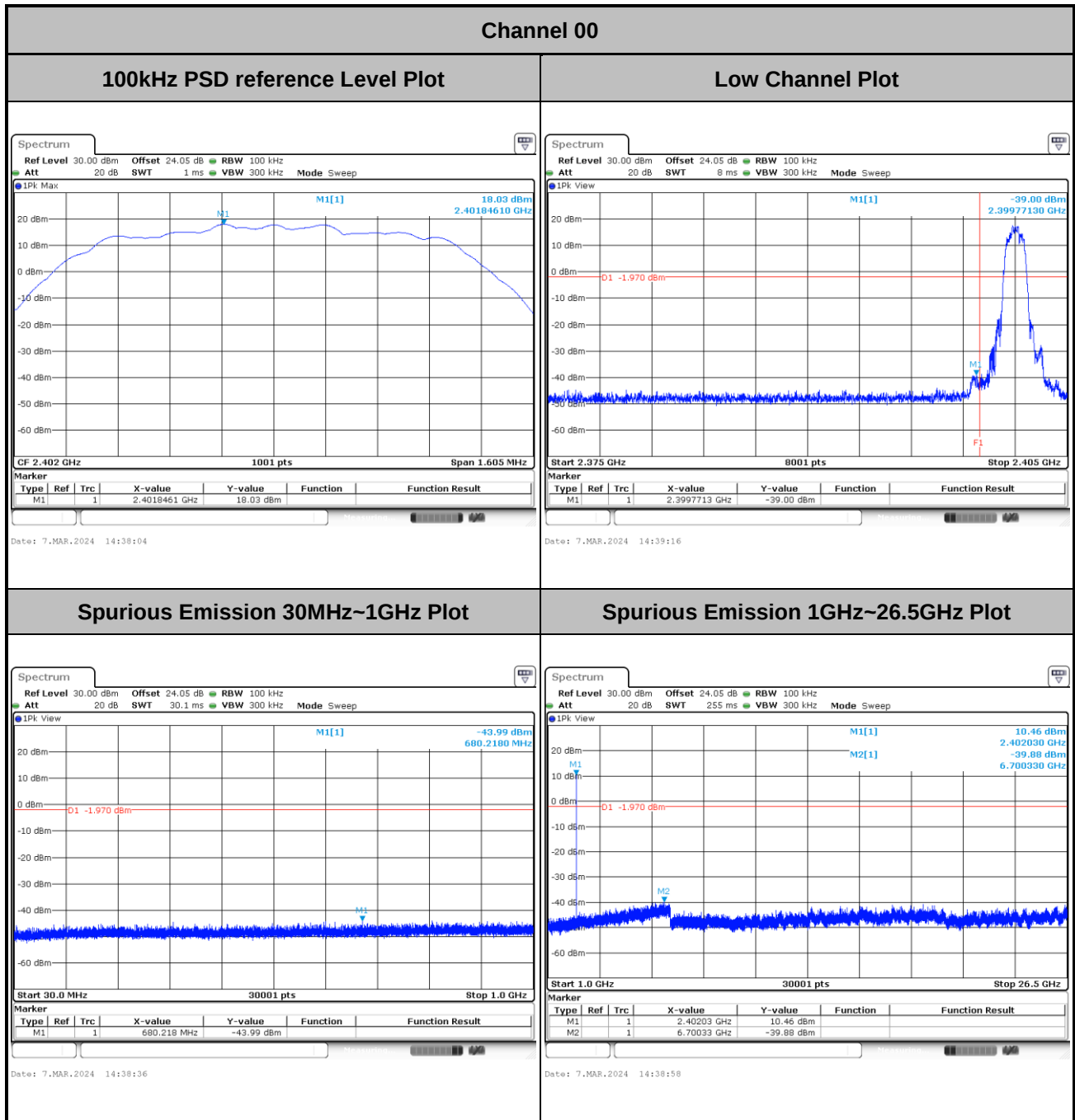


Spurious Emission 1GHz~26.5GHz Plot





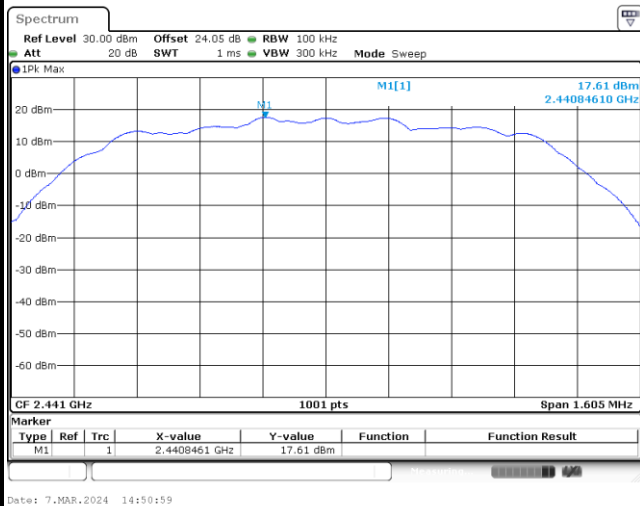
<3Mbps>





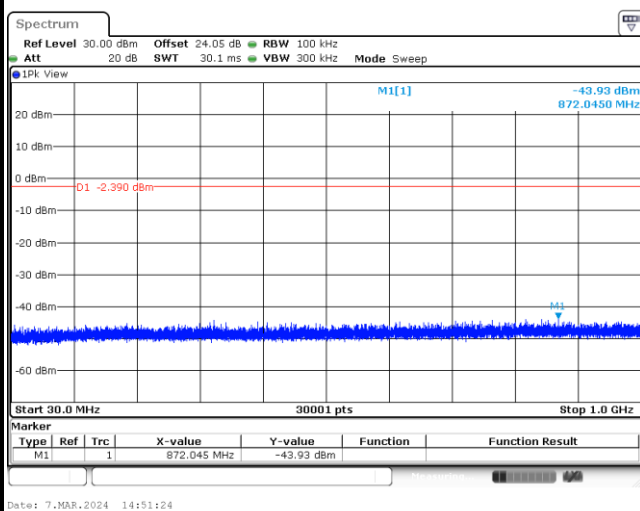
Channel 39

100kHz PSD reference Level Plot

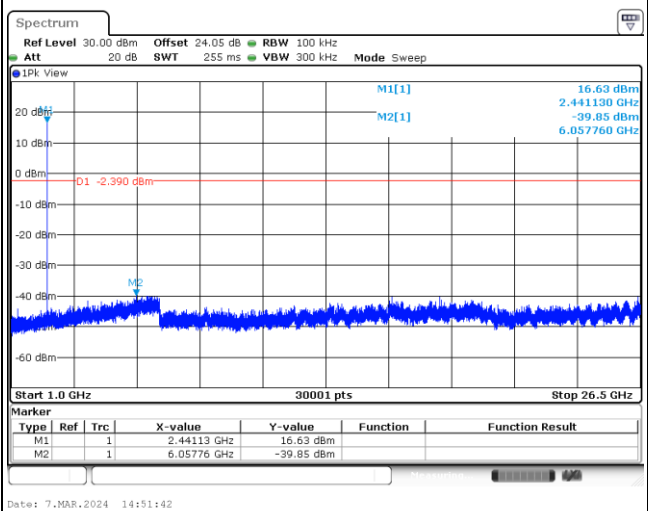


Middle Channel Plot

Spurious Emission 30MHz~1GHz Plot



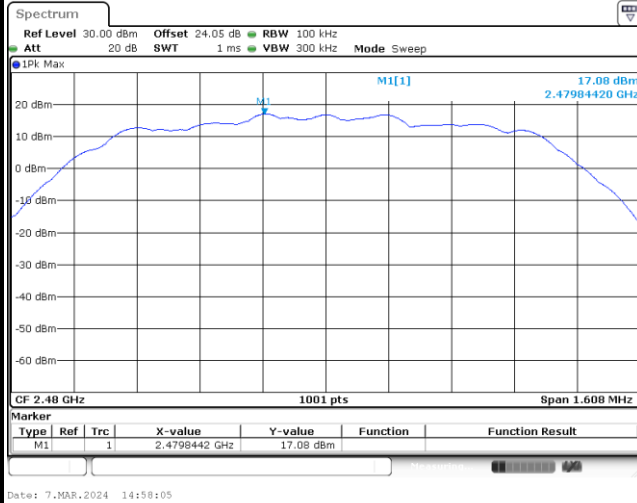
Spurious Emission 1GHz~26.5GHz Plot



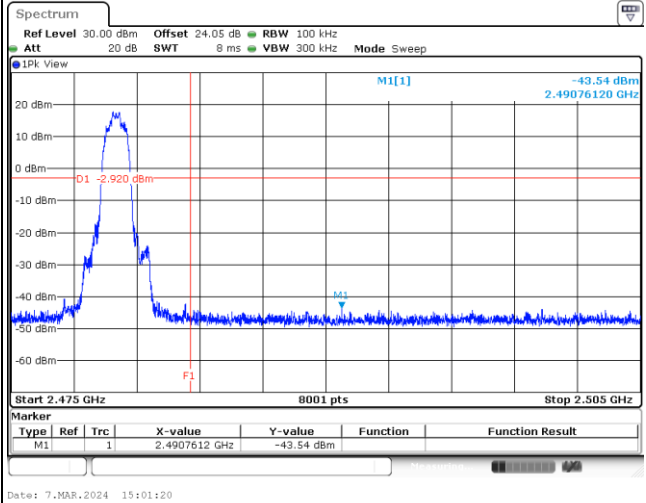


Channel 78

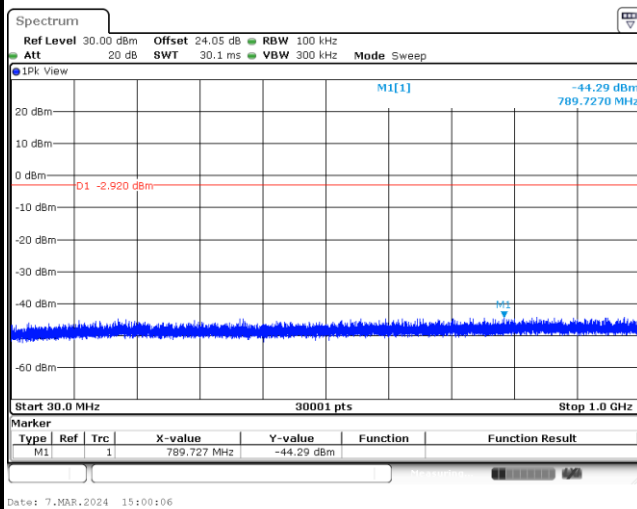
100kHz PSD reference Level Plot



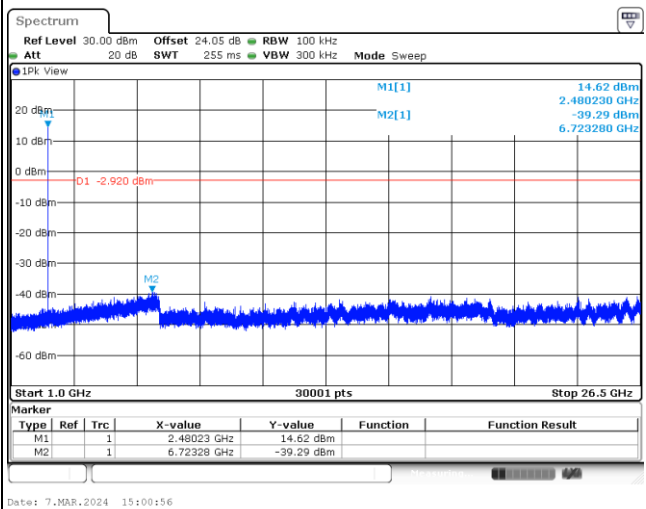
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





Appendix B. AC Conducted Emission Test Results

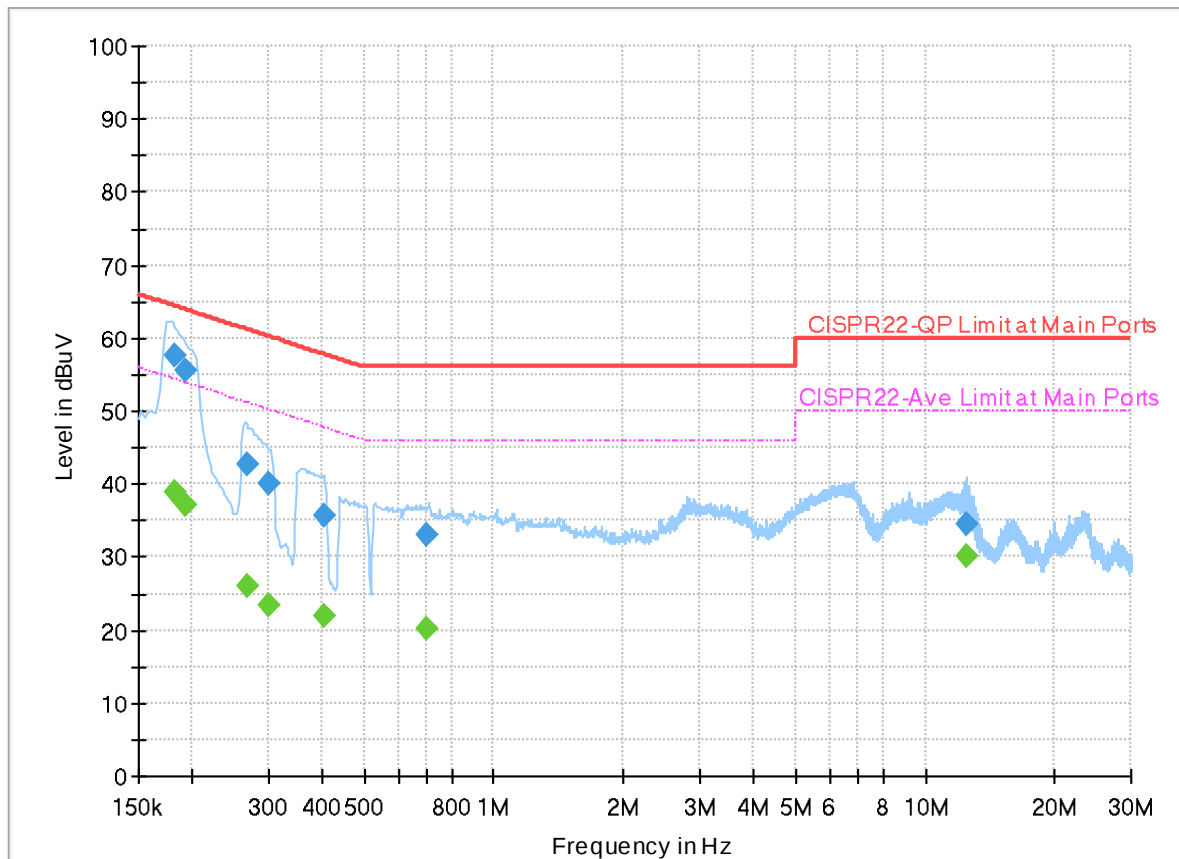
Test Engineer :	Louis Chung	Temperature :	18.5~22.7℃
		Relative Humidity :	43.3~55.5%

EUT Information

Report NO : 3D2001

Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

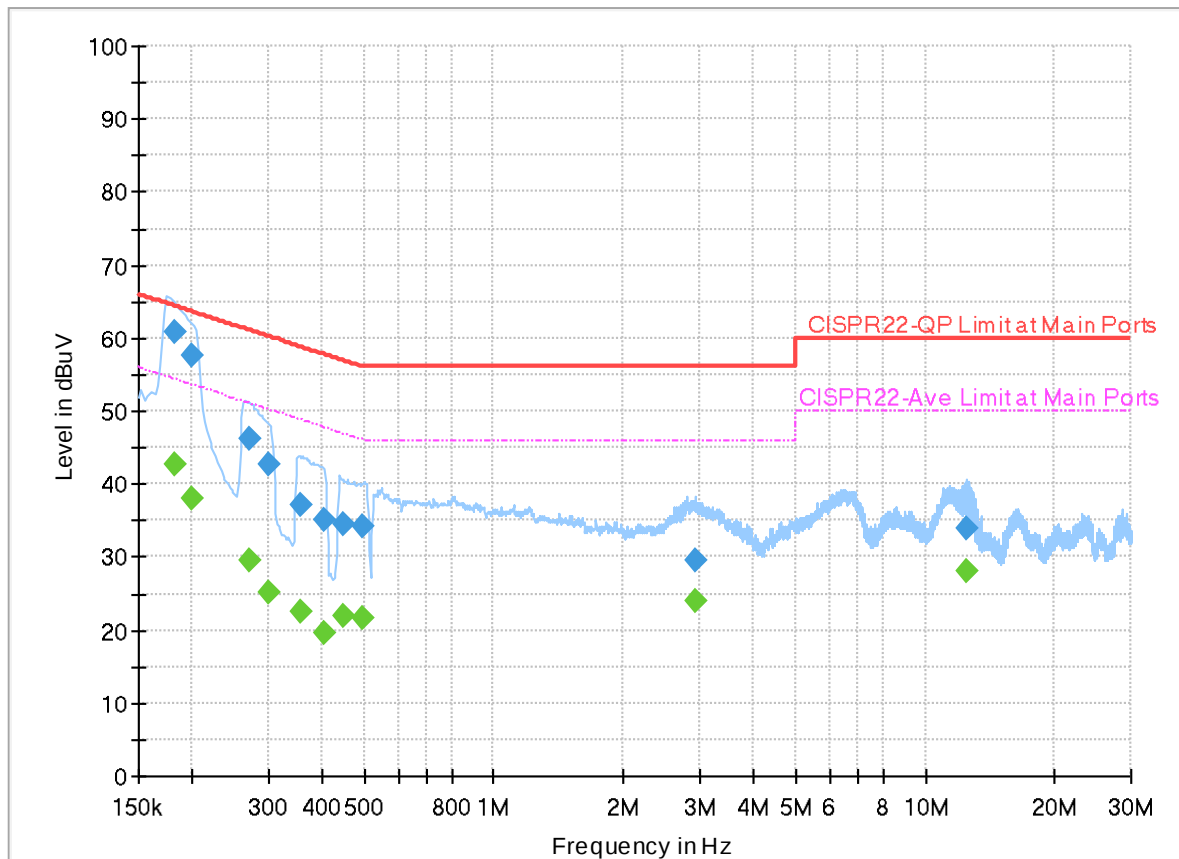
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	---	38.76	54.42	15.66	L1	OFF	19.9
0.181500	57.67	---	64.42	6.75	L1	OFF	19.9
0.192750	---	37.05	53.92	16.87	L1	OFF	19.9
0.192750	55.43	---	63.92	8.49	L1	OFF	19.9
0.268350	---	25.89	51.17	25.28	L1	OFF	19.9
0.268350	42.68	---	61.17	18.49	L1	OFF	19.9
0.301560	---	23.39	50.20	26.81	L1	OFF	19.9
0.301560	40.07	---	60.20	20.13	L1	OFF	19.9
0.402000	---	22.02	47.81	25.79	L1	OFF	19.9
0.402000	35.80	---	57.81	22.01	L1	OFF	19.9
0.701250	---	20.26	46.00	25.74	L1	OFF	19.9
0.701250	33.06	---	56.00	22.94	L1	OFF	19.9
12.493320	---	30.02	50.00	19.98	L1	OFF	20.1
12.493320	34.61	---	60.00	25.39	L1	OFF	20.1

EUT Information

Report NO : 3D2001

Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	60.93	---	64.42	3.49	N	OFF	19.9
0.181500	---	42.69	54.42	11.73	N	OFF	19.9
0.199590	57.63	---	63.63	6.00	N	OFF	19.9
0.199590	---	37.98	53.63	15.65	N	OFF	19.9
0.271500	46.19	---	61.07	14.88	N	OFF	19.9
0.271500	---	29.64	51.07	21.43	N	OFF	19.9
0.300840	42.64	---	60.22	17.58	N	OFF	19.9
0.300840	---	25.20	50.22	25.02	N	OFF	19.9
0.356370	37.25	---	58.81	21.56	N	OFF	19.9
0.356370	---	22.51	48.81	26.30	N	OFF	19.9
0.405510	35.20	---	57.74	22.54	N	OFF	19.9
0.405510	---	19.71	47.74	28.03	N	OFF	19.9
0.449250	34.40	---	56.89	22.49	N	OFF	19.9
0.449250	---	22.04	46.89	24.85	N	OFF	19.9
0.498750	34.25	---	56.02	21.77	N	OFF	19.9
0.498750	---	21.69	46.02	24.33	N	OFF	19.9
2.935320	29.56	---	56.00	26.44	N	OFF	20.0
2.935320	---	24.02	46.00	21.98	N	OFF	20.0
12.494310	34.04	---	60.00	25.96	N	OFF	20.1

12.494310	---	27.94	50.00	22.06	N	OFF	20.1
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Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Li ad Karl Hou	Temperature :	21.7~22.5°C
		Relative Humidity :	51~57%

<MIMO Ant. 3+4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2389.59	46.62	-27.38	74	40.6	27	10.75	31.73	114	233	P	H
		2389.485	36.02	-17.98	54	30	27	10.75	31.73	114	233	A	H
	*	2402	116.3	-	-	110.18	27.08	10.78	31.74	114	233	P	H
	*	2402	113.07	-	-	106.95	27.08	10.78	31.74	114	233	A	H
													H
		2389.695	45.39	-28.61	74	39.37	27	10.75	31.73	355	66	P	V
		2389.38	35.12	-18.88	54	29.1	27	10.75	31.73	355	66	A	V
	*	2402	112.16	-	-	106.04	27.08	10.78	31.74	355	66	P	V
	*	2402	109	-	-	102.88	27.08	10.78	31.74	355	66	A	V
													V
BT CH 39 2441MHz		2389.84	44.76	-29.24	74	38.74	27	10.75	31.73	161	147	P	H
		2390	34.84	-19.16	54	28.82	27	10.75	31.73	161	147	A	H
	*	2441	113.5	-	-	107.52	26.9	10.84	31.76	161	147	P	H
	*	2441	110.29	-	-	104.31	26.9	10.84	31.76	161	147	A	H
		2486.72	45.67	-28.33	74	39.68	26.87	10.91	31.79	161	147	P	H
		2484.64	35.22	-18.78	54	29.26	26.85	10.9	31.79	161	147	A	H
		2370.32	43.75	-30.25	74	37.65	27.1	10.72	31.72	379	24	P	V
		2390	33.67	-20.33	54	27.65	27	10.75	31.73	379	24	A	V
	*	2441	113.59	-	-	107.61	26.9	10.84	31.76	379	24	P	V
	*	2441	110.38	-	-	104.4	26.9	10.84	31.76	379	24	A	V
		2484.32	45.17	-28.83	74	39.22	26.84	10.9	31.79	379	24	P	V
		2484.8	35.41	-18.59	54	29.45	26.85	10.9	31.79	379	24	A	V



BT CH 78 2480MHz	*	2480	115.3	-	-	109.39	26.8	10.9	31.79	107	163	P	H
	*	2480	111.55	-	-	105.64	26.8	10.9	31.79	107	163	A	H
		2484.04	52.23	-21.77	74	46.28	26.84	10.9	31.79	107	163	P	H
		2483.52	43.05	-10.95	54	37.1	26.84	10.9	31.79	107	163	A	H
													H
													H
	*	2480	111.86	-	-	105.95	26.8	10.9	31.79	374	50	P	V
	*	2480	108.64	-	-	102.73	26.8	10.9	31.79	374	50	A	V
		2483.92	50.26	-23.74	74	44.31	26.84	10.9	31.79	374	50	P	V
		2483.52	41.17	-12.83	54	35.22	26.84	10.9	31.79	374	50	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BT (Harmonic @ 3m)**

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	45.72	-28.28	74	34.02	32.32	12.36	32.98	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	45.01	-28.99	74	33.31	32.32	12.36	32.98	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	45.63	-28.37	74	33.7	32.63	12.28	32.98	-	-	P	H
		7323	49.59	-24.41	74	33.29	37.2	14.65	35.55	-	-	P	H
		7323	40.62	-13.38	54	24.32	37.2	14.65	35.55	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	45.33	-28.67	74	33.4	32.63	12.28	32.98	-	-	P	V
		7323	49.76	-24.24	74	33.46	37.2	14.65	35.55	-	-	P	V
		7323	40.73	-13.27	54	24.43	37.2	14.65	35.55	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



<Ant. 3>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2389.905	47.47	-26.53	74	41.45	27	10.75	31.73	114	147	P	H
		2389.485	35.96	-18.04	54	29.94	27	10.75	31.73	114	147	A	H
	*	2402	113.7	-	-	107.58	27.08	10.78	31.74	114	147	P	H
	*	2402	110.09	-	-	103.97	27.08	10.78	31.74	114	147	A	H
													H
													H
		2387.28	44.59	-29.41	74	38.57	27	10.75	31.73	318	32	P	V
		2389.59	34.91	-19.09	54	28.89	27	10.75	31.73	318	32	A	V
	*	2402	110.91	-	-	104.79	27.08	10.78	31.74	318	32	P	V
	*	2402	107.66	-	-	101.54	27.08	10.78	31.74	318	32	A	V
													V
													V
BT CH 39 2441MHz		2386.32	44.34	-29.66	74	38.33	27	10.74	31.73	114	144	P	H
		2390	34.9	-19.1	54	28.88	27	10.75	31.73	114	144	A	H
	*	2441	112.55	-	-	106.57	26.9	10.84	31.76	114	144	P	H
	*	2441	108.68	-	-	102.7	26.9	10.84	31.76	114	144	A	H
		2486.32	45.54	-28.46	74	39.56	26.86	10.91	31.79	114	144	P	H
		2484.56	34.73	-19.27	54	28.77	26.85	10.9	31.79	114	144	A	H
		2341.84	45.43	-28.57	74	39.39	27.1	10.64	31.7	347	27	P	V
		2389.68	33.93	-20.07	54	27.91	27	10.75	31.73	347	27	A	V
	*	2441	111.15	-	-	105.17	26.9	10.84	31.76	347	27	P	V
	*	2441	108.45	-	-	102.47	26.9	10.84	31.76	347	27	A	V
		2483.84	44.35	-29.65	74	38.4	26.84	10.9	31.79	347	27	P	V
		2485.36	34.53	-19.47	54	28.56	26.85	10.91	31.79	347	27	A	V



BT CH 78 2480MHz	*	2480	110.72	-	-	104.81	26.8	10.9	31.79	106	158	P	H
	*	2480	107.4	-	-	101.49	26.8	10.9	31.79	106	158	A	H
		2483.56	50.01	-23.99	74	44.06	26.84	10.9	31.79	106	158	P	H
		2483.52	40.66	-13.34	54	34.71	26.84	10.9	31.79	106	158	A	H
													H
													H
	*	2480	110.33	-	-	104.42	26.8	10.9	31.79	378	34	P	V
	*	2480	107.12	-	-	101.21	26.8	10.9	31.79	378	34	A	V
		2485.04	50.23	-23.77	74	44.27	26.85	10.9	31.79	378	34	P	V
		2483.52	40.97	-13.03	54	35.02	26.84	10.9	31.79	378	34	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4800	46.34	-27.66	74	34.66	32.3	12.36	32.98	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	46.49	-27.51	74	34.79	32.32	12.36	32.98	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	46.45	-27.55	74	34.52	32.63	12.28	32.98	-	-	P	H
		7323	50.2	-23.8	74	33.9	37.2	14.65	35.55	-	-	P	H
		7323	40.32	-13.68	54	24.02	37.2	14.65	35.55	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	46.28	-27.72	74	34.35	32.63	12.28	32.98	-	-	P	V
		7323	50.7	-23.3	74	34.4	37.2	14.65	35.55	-	-	P	V
		7323	40.26	-13.74	54	23.96	37.2	14.65	35.55	-	-	A	V
													V
													V
													V
													V
													V
													V

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
BT CH 78 2480MHz		4960	46.17	-27.83	74	34.16	32.78	12.21	32.98	-	-	P	H	
		7440	49.33	-24.67	74	33.07	37.1	14.81	35.65	-	-	P	H	
		7440	39.94	-14.06	54	23.68	37.1	14.81	35.65	-	-	A	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4960	46.41	-27.59	74	34.4	32.78	12.21	32.98	-	-	P	V
			7440	49.2	-24.8	74	32.94	37.1	14.81	35.65	-	-	P	V
			7440	39.83	-14.17	54	23.57	37.1	14.81	35.65	-	-	A	V
														V
														V
														V
														V
														V
														V
														V
													V	
													V	
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



<Ant. 4>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2387.805	45.31	-28.69	74	39.29	27	10.75	31.73	111	229	P	H
		2389.275	35.56	-18.44	54	29.54	27	10.75	31.73	111	229	A	H
	*	2402	113.49	-	-	107.37	27.08	10.78	31.74	111	229	P	H
	*	2402	110.39	-	-	104.27	27.08	10.78	31.74	111	229	A	H
													H
													H
		2330.475	44.24	-29.76	74	38.11	27.2	10.62	31.69	369	171	P	V
		2389.485	33.6	-20.4	54	27.58	27	10.75	31.73	369	171	A	V
	*	2402	105.32	-	-	99.2	27.08	10.78	31.74	369	171	P	V
	*	2402	102.04	-	-	95.92	27.08	10.78	31.74	369	171	A	V
													V
													V
BT CH 39 2441MHz		2340.08	44.73	-29.27	74	38.69	27.1	10.64	31.7	100	231	P	H
		2390	34.8	-19.2	54	28.78	27	10.75	31.73	100	231	A	H
	*	2441	114.94	-	-	108.96	26.9	10.84	31.76	100	231	P	H
	*	2441	111.73	-	-	105.75	26.9	10.84	31.76	100	231	A	H
		2484.24	46.38	-27.62	74	40.43	26.84	10.9	31.79	100	231	P	H
		2484.96	35.74	-18.26	54	29.78	26.85	10.9	31.79	100	231	A	H
		2323.44	44.1	-29.9	74	37.99	27.2	10.6	31.69	383	163	P	V
		2389.68	33.6	-20.4	54	27.58	27	10.75	31.73	383	163	A	V
	*	2441	110.06	-	-	104.08	26.9	10.84	31.76	383	163	P	V
	*	2441	106.78	-	-	100.8	26.9	10.84	31.76	383	163	A	V
		2494.4	44.13	-29.87	74	38.11	26.9	10.92	31.8	383	163	P	V
		2487.04	33.68	-20.32	54	27.69	26.87	10.91	31.79	383	163	A	V



BT CH 78 2480MHz	*	2480	114.18	-	-	108.27	26.8	10.9	31.79	105	237	P	H
	*	2480	110.73	-	-	104.82	26.8	10.9	31.79	105	237	A	H
		2483.64	53.16	-20.84	74	47.21	26.84	10.9	31.79	105	237	P	H
		2483.52	42.5	-11.5	54	36.55	26.84	10.9	31.79	105	237	A	H
													H
													H
	*	2480	107.3	-	-	101.39	26.8	10.9	31.79	399	164	P	V
	*	2480	103.75	-	-	97.84	26.8	10.9	31.79	399	164	A	V
		2483.84	46.31	-27.69	74	40.36	26.84	10.9	31.79	399	164	P	V
		2483.52	37.38	-16.62	54	31.43	26.84	10.9	31.79	399	164	A	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 00 2402MHz		4804	46.37	-27.63	74	34.67	32.32	12.36	32.98	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	46.01	-27.99	74	34.31	32.32	12.36	32.98	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 39 2441MHz		4882	45.67	-28.33	74	33.74	32.63	12.28	32.98	-	-	P	H
		7323	50.71	-23.29	74	34.41	37.2	14.65	35.55	-	-	P	H
		7323	40.55	-13.45	54	24.25	37.2	14.65	35.55	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4882	46.43	-27.57	74	34.5	32.63	12.28	32.98	-	-	P	V
		7323	50.83	-23.17	74	34.53	37.2	14.65	35.55	-	-	P	V
		7323	40.69	-13.31	54	24.39	37.2	14.65	35.55	-	-	A	V
													V
													V
													V
													V
													V
													V

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H

$$1. \text{ Path Loss(dB) = CaBT loss(dB) + Filter loss(dB) + Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m) =}$$

$$\text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$3. \text{ Margin (dB) = Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Margin (dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

Peak measured complies with the limit line, so test result is "PASS".



Appendix D. Radiated Spurious Emission Plots

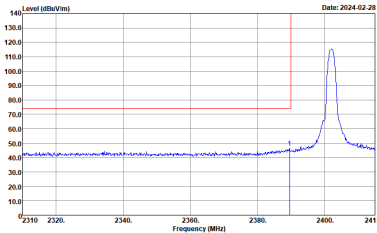
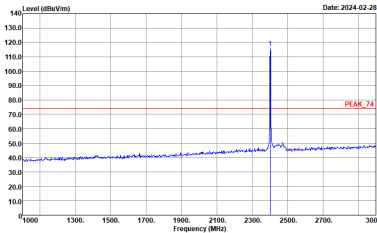
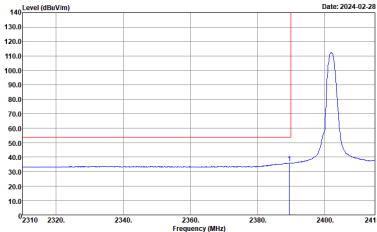
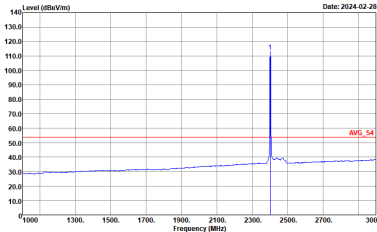
Test Engineer :	Leo Li ad Karl Hou	Temperature :	21.7~22.5°C
		Relative Humidity :	51~57%

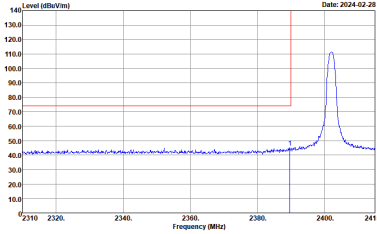
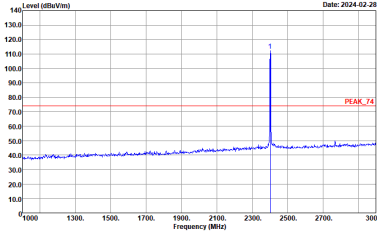
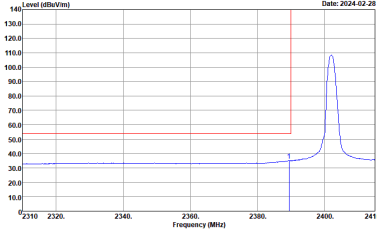
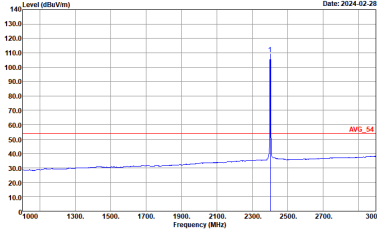


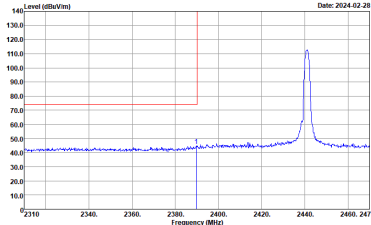
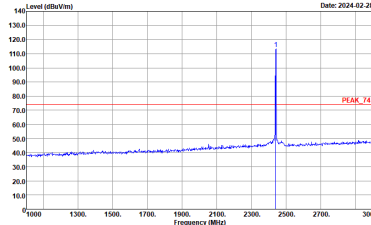
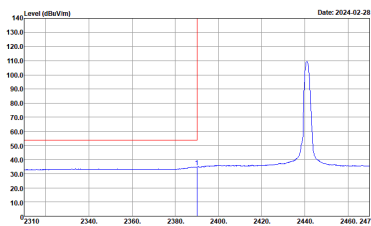
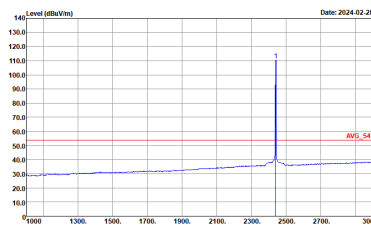
<MIMO Ant. 3+4>

2.4GHz 2400~2483.5MHz

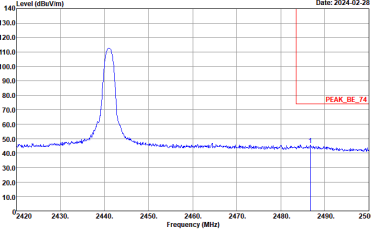
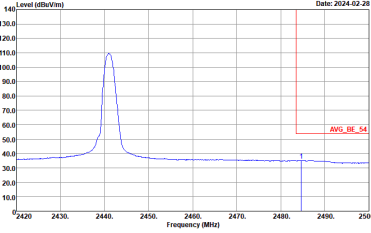
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

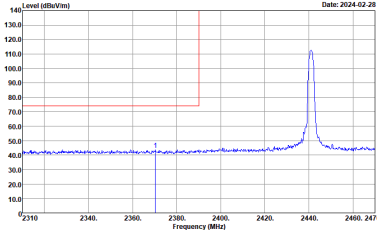
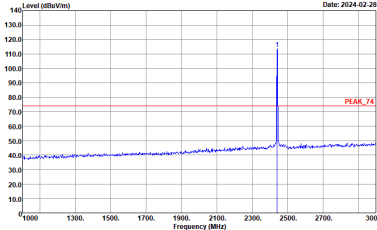
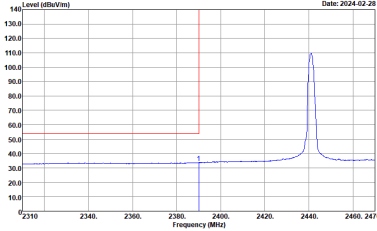
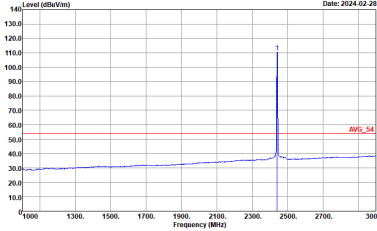
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LE2005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LE2005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LE2005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

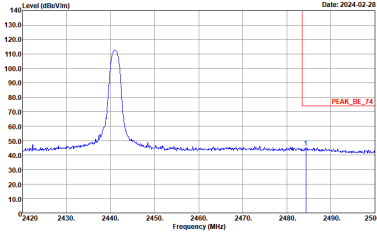
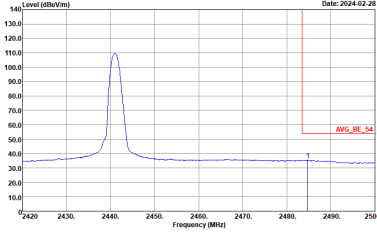
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230712 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230712 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230712 HORIZONTAL RBW:1000.000kHz VBW:0.360kHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LE2C05A18EN_230712 HORIZONTAL RBW:1000.000kHz VBW:0.360kHz SWT:Auto

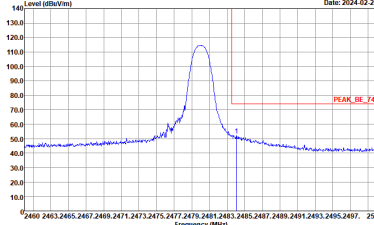
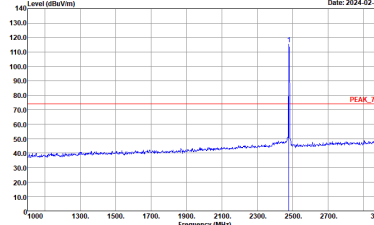
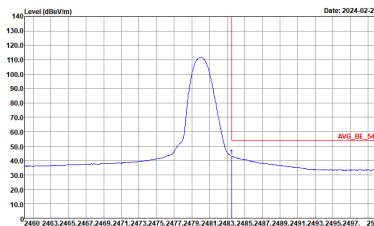
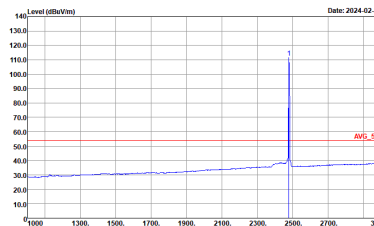


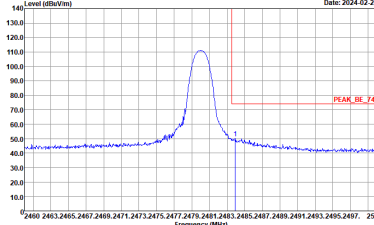
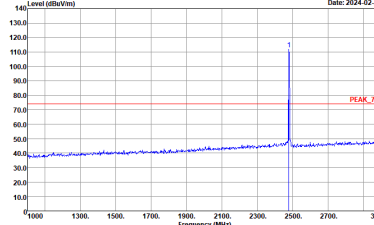
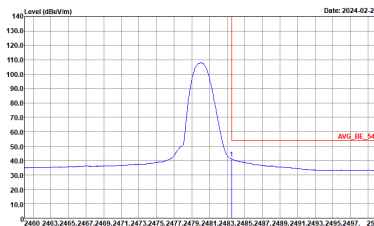
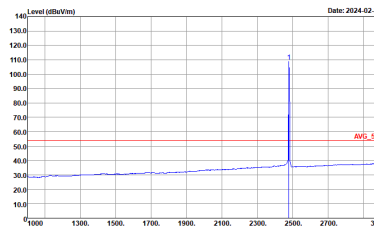
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3.360KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

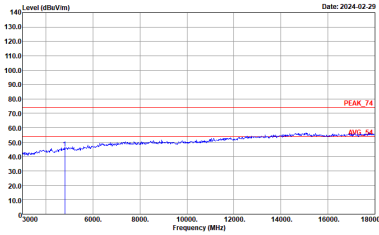
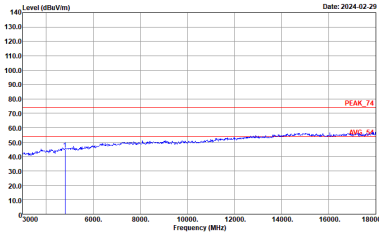
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

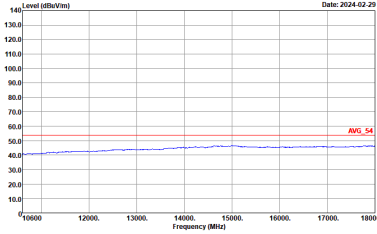
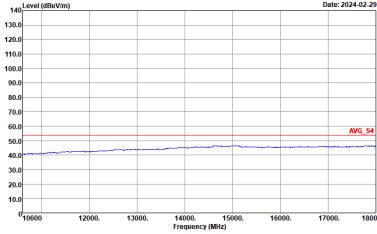
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto



2.4GHz 2400~2483.5MHz
BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH23-HY Condition : PEAK_74 3m LE2005A18EN_230712 HORIZONTAL :	 Site : 03CH23-HY Condition : PEAK_74 3m LE2005A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 HORIZONTAL :	 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-1V Condition : PEAK_74 3m LE2C05A18EN_230712 HORIZONTAL	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-1V Condition : PEAK_74 3m LE2C05A18EN_230712 VERTICAL

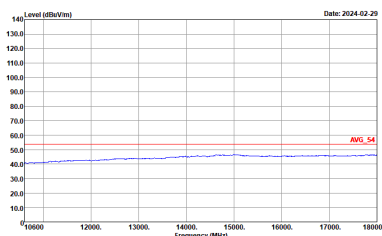
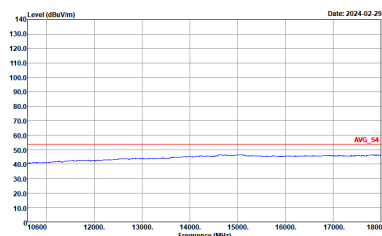


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz	
	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-1V Condition : PEAK_74 3m LE2005A18EN_230712 HORIZONTAL	Level (dBuV/m) Date: 2024-02-29 Site : 03CH23-1V Condition : PEAK_74 3m LE2005A18EN_230712 VERTICAL

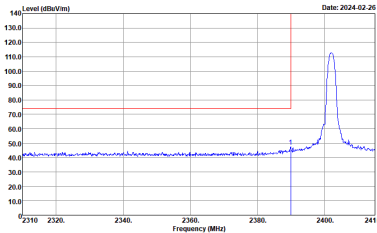
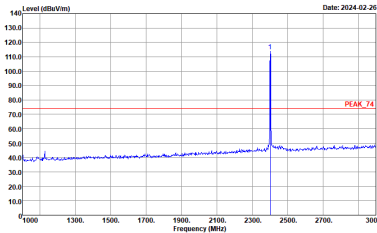
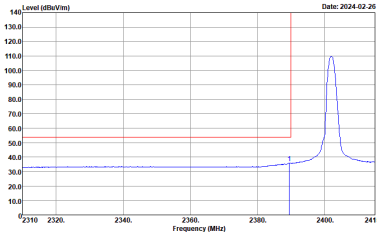
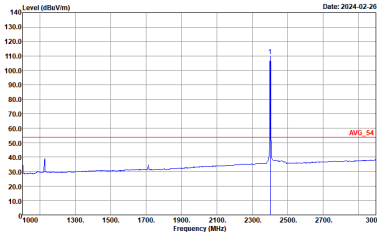


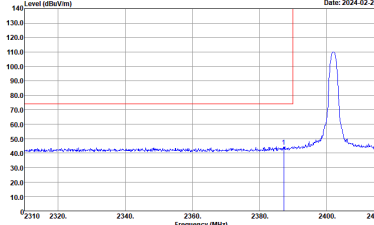
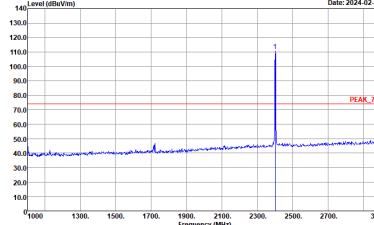
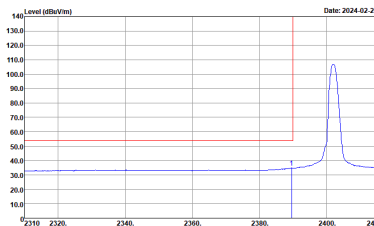
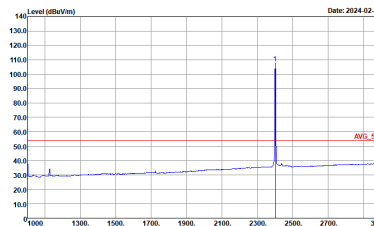
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 HORIZONTAL :	 Site : 03CH23-11Y Condition : AVG_54 3m LE2005A18EN_230712 VERTICAL :

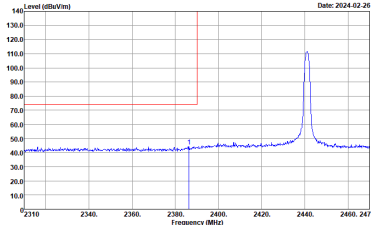
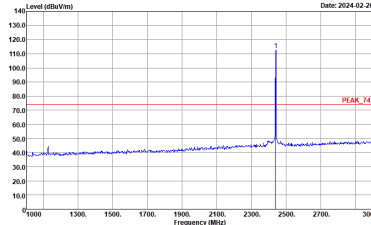
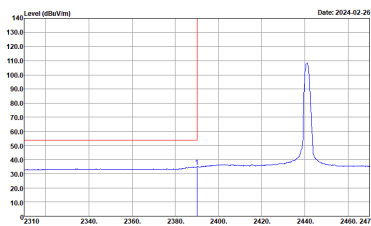
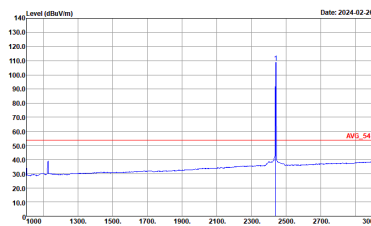


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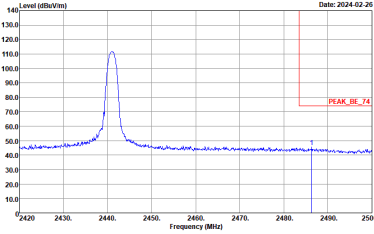
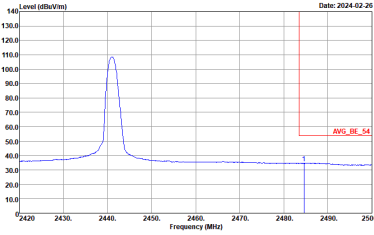
2.4GHz 2400~2483.5MHz
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LE2C05A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto

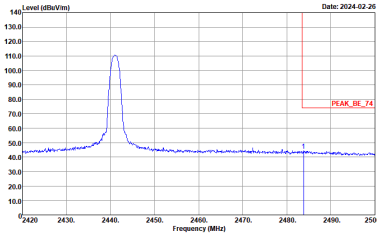
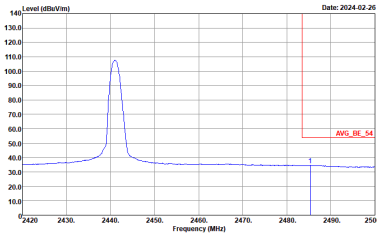


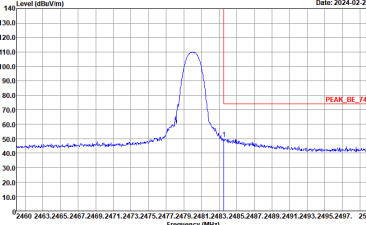
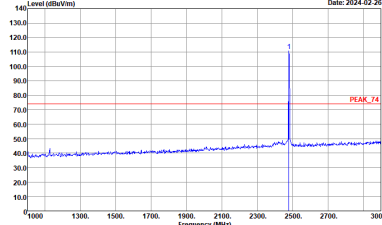
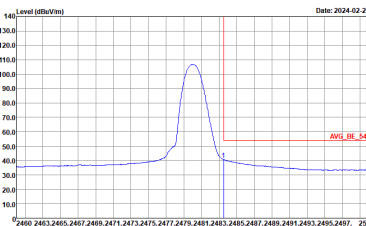
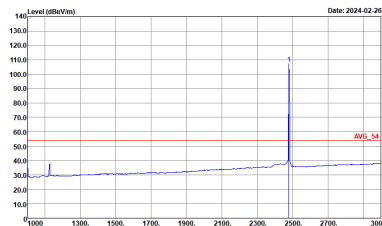
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LE2005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3.360kHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
	Vertical	Fundamental
Peak	Site : 03CH23-HY Condition : PEAK_BE_74 3m LE2C05A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH23-HY Condition : PEAK_74 3m LE2C05A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH23-HY Condition : AVG_BE_54 3m LE2C05A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto	Site : 03CH23-HY Condition : AVG_54 3m LE2C05A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3.360KHz SWT:Auto	Left blank

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition : PEAK_BE_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH23-HY Condition : PEAK_74 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH23-HY Condition : AVG_BE_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto	 Site : 03CH23-HY Condition : AVG_54 3m LEZ005A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto