



FCC RADIO TEST REPORT

FCC ID : UZ7TCW01G
Equipment : Touch Computer
Brand Name : ZEBRA
Model Name : TCW01G
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Dec. 24, 2025 and testing was performed from Jan. 16, 2026 to Apr. 05, 2026. 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
FR5N0611-01B	01	Initial issue of report	Apr. 17, 2026

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	Pass	-
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	7.72 dB under the limit at 30.00 MHz
3.6	15.207	AC Conducted Emission	Pass	12.18 dB under the limit at 0.47 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: Wei Chen

Report Producer: Julia Chang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	ZEBRA
Model Name	TCW01G, TCW01D
FCC ID	UZ7TCW01G
Sample 1	Basic + SE4730(SR500)
Sample 2	Basic + SE56(AC670)
Sample 3	Premium + SE4730(SR500)
Sample 4	Premium + SE56(AC670)
Sample 5	HC_Basic (no scanner)
Sample 6	HC_Basic + SE4730(SR500)
Sample 7	HC_Premium + SE4730(SR500)
EUT supports Radios application	GSM/WCDMA/HSPA/LTE/5G NR NFC/UHF RFID WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be ETH20/ ETH 40/ ETH 80/ ETH 160/ ETH 320 Bluetooth BR/EDR/LE
SW Version	15-12-29.00-VG-U00-PRD-ERS-04
FW Version	FUSION_QA_7_1.3.0.002_V
MFD	15NOV25
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

<Sample Information>

Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Basic + SE4730 SKU 1.2_ROW	Basic + SE55 SKU 3.1_ROW	Premium + SE4730 SKU 5.1_ROW	Premium + SE55 SKU 6.1_ROW	Basic (no scanner) SKU 8_ROW

Remark: All the tests were performed with Sample 1.



Specification of Accessories				
AC Adapter 1	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Battery 1 (1x)	Brand Name	Zebra	Part Number	BT-000473-0020
Battery 2 (1.5x)	Brand Name	Zebra	Part Number	BT-000473-0820
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC2X-USBC-01
USB TYPE C to TYPE C cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
PTT Headset with USB-C connector	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
PTT and VoIP headset with 3.5mm standard jack.	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-02
USB-C to 3.5mm adapter cable	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
HS2100 rugged wired headset	Brand Name	Zebra	Part Number	HS2100-BTN-LSB
HS2100 Headset Cable for connecting the HS2100 Headset via 3.5mm	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Rugged boot	Brand Name	Zebra	Part Number	SG-TC2L-BOOT-01
Handstrap	Brand Name	Zebra	Part Number	SG-TC2L-HSTRP1-01
Trigger Handle	Brand Name	Zebra	Part Number	CRG-TC2L-SNP1-01
Arm Mounts	Brand Name	Zebra	Part Number	SG-TC2L-ARMNT-01
Soft Holster	Brand Name	Zebra	Part Number	SG-TC2L-HLSTR1-01
HS3100 rugged Bluetooth headset	Brand Name	Zebra	Part Number	HS3100-OTH

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel (37 hopping + 3 advertising channel)
Antenna Type / Gain	<Ant. 6>: IFA with gain 0.61 dBi <Ant. 7>: IFA with gain 1.33 dBi
Type of Modulation	Bluetooth LE: GFSK

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

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.)

FCC designation No.: TW3786

Note:

- 1.The test site complies with ANSI C63.4 2014 requirement.
- 2.The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory. (TAF Code: 3786)



1.5 Applicable Standards

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

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020 + Cor.1-2023

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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

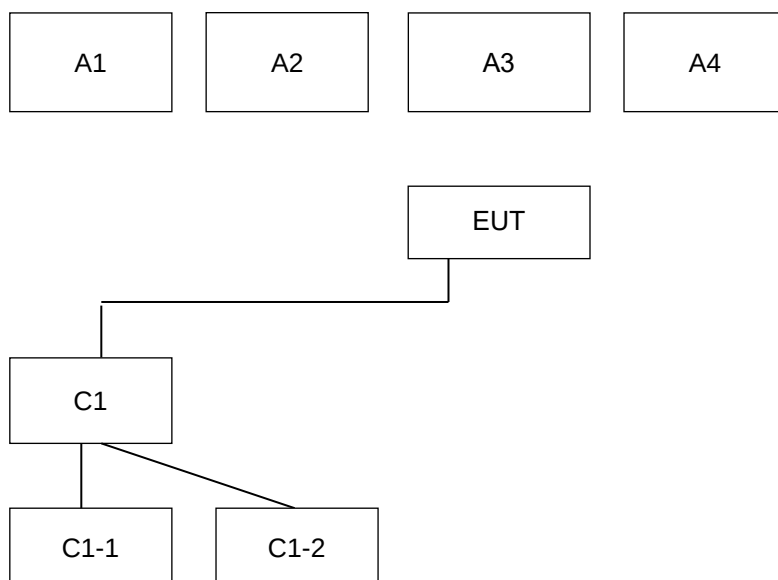
2.2 Test Mode

- 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 and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

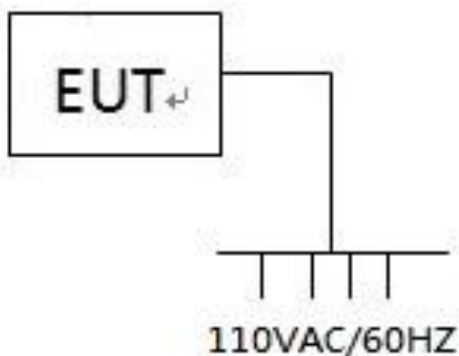
The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps
AC Conducted Emission	Mode 1: WCMDA Band V Idle + WLAN 2.4G link + BT Idle with HS3100 BT headset + Scanner + Copy data from NB to EDA(eMMC) for Sample 1
Remark: - For Radiated Test Cases, the tests were performed with Sample 1. - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. - The detailed Radiated test modes are shown in Appendix C.	

2.3 Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1						
A1	BT Earphone	Bluetooth	X						
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	X						
A3	WLAN AP	WiFi	X						
A4	Notebook	WiFi	X						
No.	Power Source	Connection Type	1						
No.	Setup Peripherals	Connection Type	1						
C1	Notebook	USB Cable	X						
C1-1	iPod	USB Cable to C1	X						
C1-2	AP router	RJ-45 Cable to C1	X						



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Test NB	Dell	N/A	N/A	N/A	N/A
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8m
3.	Notebook	ACER	N18Q13	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
4.	iPod	Apple	A1199	DoC	Shielded, 1.0m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Version 4.0.186.1” was installed in EUT 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.

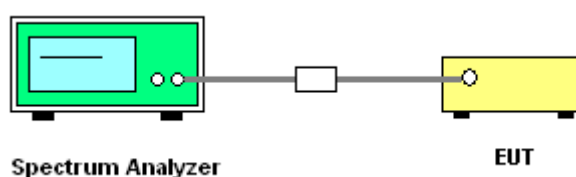
3.1.2 Measuring Instruments

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) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. 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.

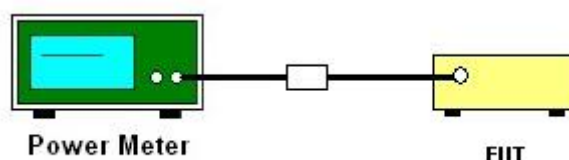
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

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.

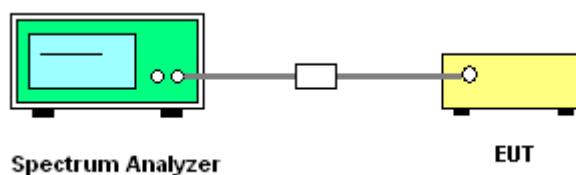
3.3.2 Measuring Instruments

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 = No faster than coupled (auto) time, 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.

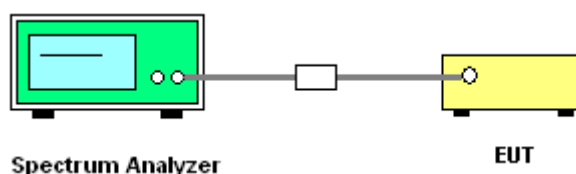
3.4.2 Measuring Instruments

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.

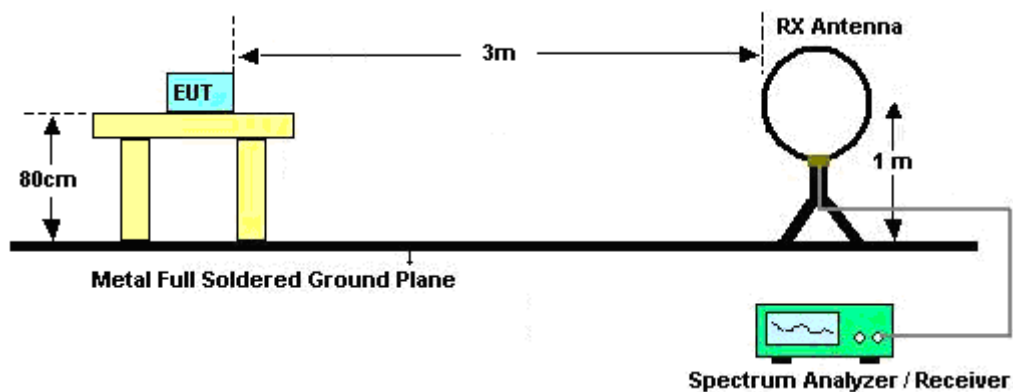


3.5.3 Test Procedures

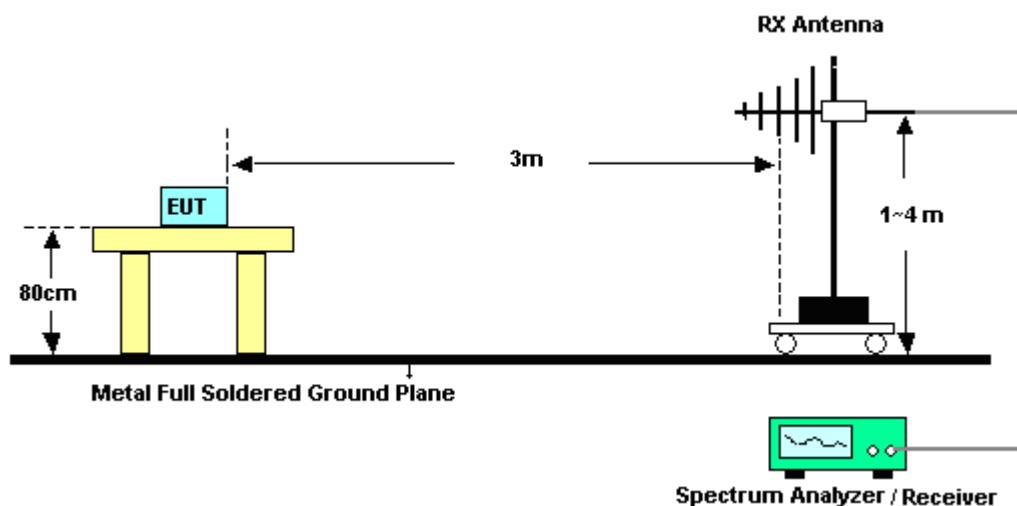
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

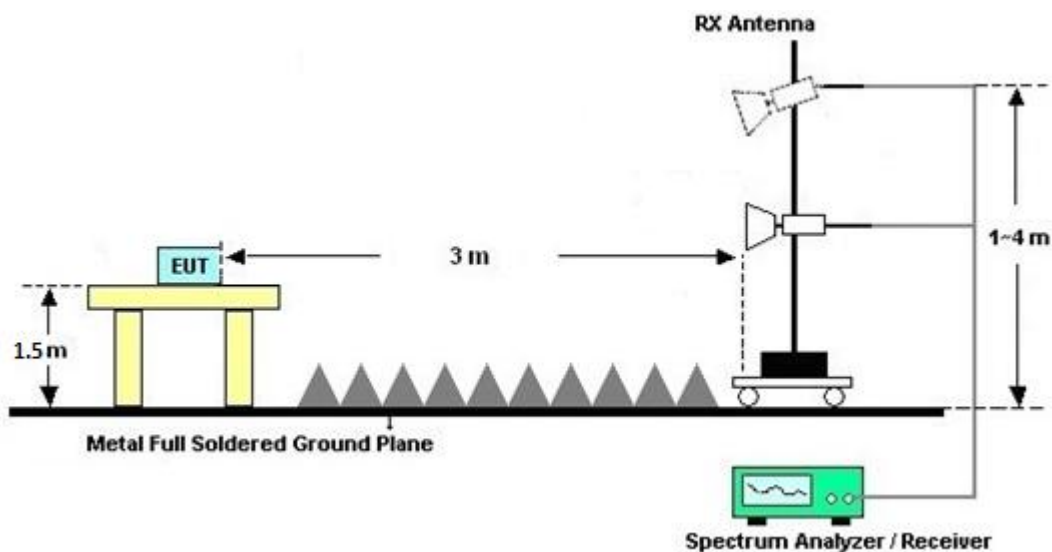
For radiated test below 30MHz



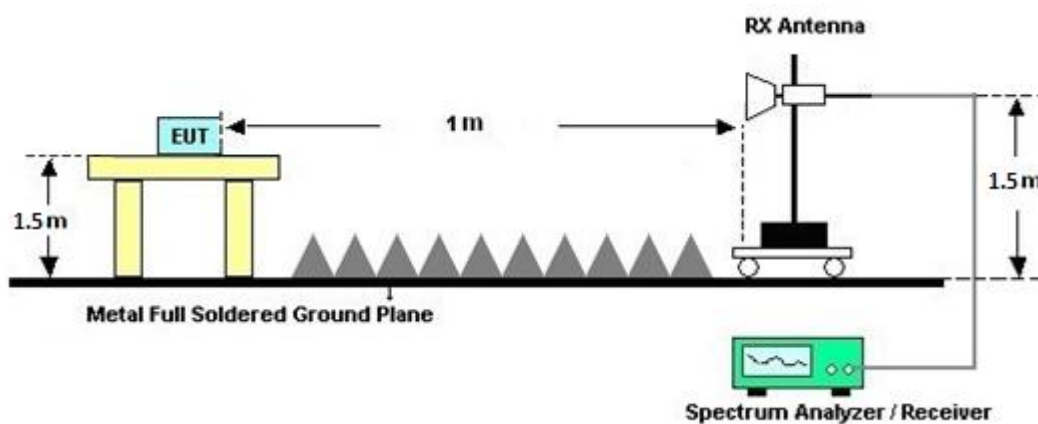
For radiated test from 30MHz to 1GHz



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)

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.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

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.

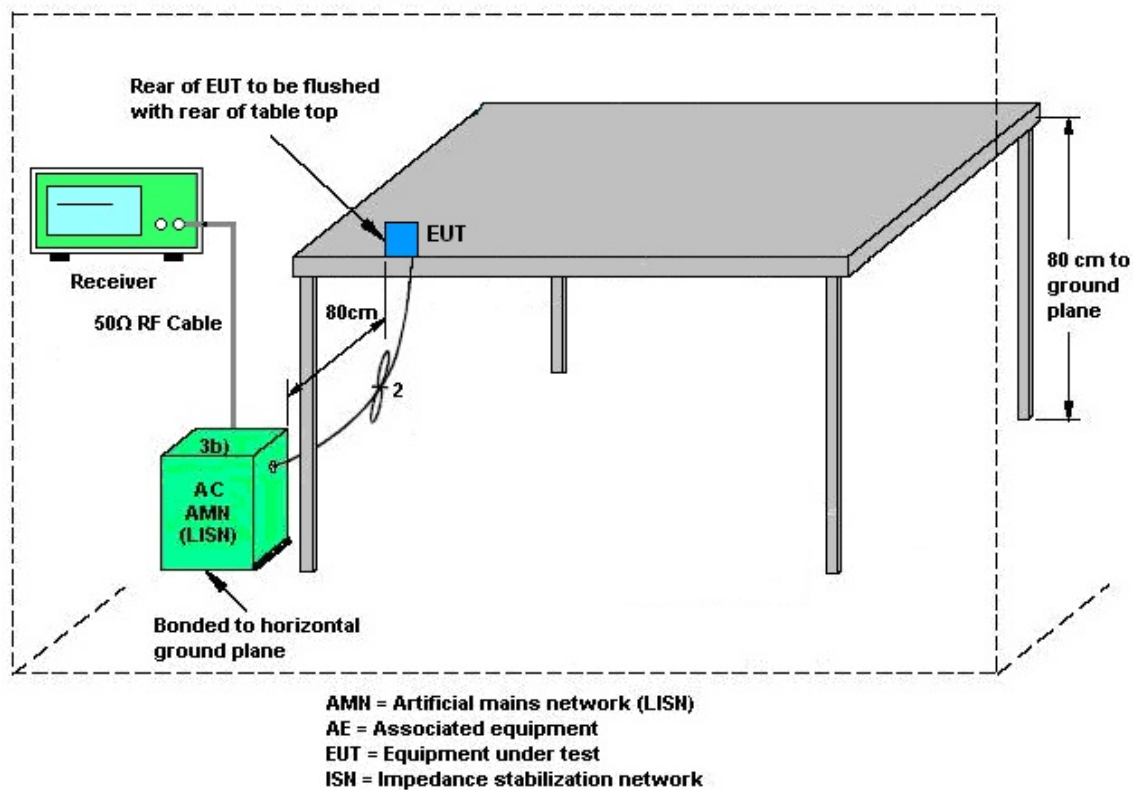
3.6.2 Measuring Instruments

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. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. 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

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Nov. 25, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Dec. 10, 2026	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZB ECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Sep. 14, 2026	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	1225	18GHz~40GHz	Jul. 02, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Jul. 01, 2026	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 06, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Dec. 05, 2026	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Jan. 16, 2026 ~ Mar. 22, 2026	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 23, 2026	Mar. 23, 2026 ~ Apr. 03, 2026	Mar. 22, 2027	Preamplifier
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Jan. 16, 2026 ~ Jan. 19, 2026	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 20, 2026	Jan. 20, 2026 ~ Apr. 03, 2026	Jan. 19, 2027	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Aut. 25, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2025	Jan. 16, 2026 ~ Mar. 18, 2026	Oct. 22, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Aug. 27, 2025	Mar. 19, 2026 ~ Apr. 03, 2026	Aug. 26, 2026	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 21, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Apr. 20, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 16, 2026 ~ Apr. 03, 2026	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 16, 2026 ~ Apr. 03, 2026	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 16, 2026 ~ Apr. 03, 2026	N/A	Radiation (03CH11-HY)
Software	Audix	E3	RK-002391	N/A	N/A	Jan. 16, 2026 ~ Apr. 03, 2026	N/A	Radiation (03CH11-HY)
USB Data Logger	TECPEL	TR-32	HE17XM6804	N/A	Dec. 15, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Dec. 14, 2026	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 26, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Aug. 25, 2026	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 04, 2026	Mar. 04, 2026 ~ Apr. 03, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 04, 2026	Mar. 04, 2026 ~ Apr. 03, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 04, 2026	Mar. 04, 2026 ~ Apr. 03, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	9K~30M	Mar. 04, 2026	Mar. 04, 2026 ~ Apr. 03, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	Mar. 04, 2026	Mar. 04, 2026 ~ Apr. 03, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	Jan. 16, 2026 ~ Mar. 03, 2026	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Jan. 16, 2026 ~ Mar. 03, 2026	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	Jan. 16, 2026 ~ Mar. 03, 2026	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	May 10, 2025	Jan. 16, 2026 ~ Mar. 03, 2026	May 09, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 09, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 09, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Sep. 09, 2025	Jan. 16, 2026 ~ Apr. 03, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jan. 30, 2026	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 30, 2026	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2025	Jan. 30, 2026	Oct. 19, 2026	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 3, 2025	Jan. 30, 2026	Mar. 2, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Jan. 30, 2026	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Jan. 30, 2026	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2025	Jan. 30, 2026	Oct. 20, 2026	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Feb. 13, 2026~Apr. 05, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SN O37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Feb. 13, 2026~Apr. 05, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Feb. 13, 2026~Apr. 05, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Feb. 13, 2026~Apr. 05, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_verson_240513	N/A	Conducted Other Test Item	N/A	Feb. 13, 2026~Apr. 05, 2026	N/A	Conducted (TH05-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2026/2/13~2026/4/5	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
BLE	1Mbps	1	0	2402	1.017	0.676	0.50	Pass
BLE	1Mbps	1	19	2440	1.017	0.676	0.50	Pass
BLE	1Mbps	1	39	2480	1.014	0.674	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	6.43	30.00	0.61	7.04	36.00	Pass	Default
BLE	1Mbps	1	19	2440	6.44	30.00	0.61	7.05	36.00	Pass	Default
BLE	1Mbps	1	39	2480	6.46	30.00	0.61	7.07	36.00	Pass	Default

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	6.36	-8.18	0.61	8.00	Pass
BLE	1Mbps	1	19	2440	6.33	-8.20	0.61	8.00	Pass
BLE	1Mbps	1	39	2480	6.39	-8.11	0.61	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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
BLE	2Mbps	1	0	2402	2.030	1.151	0.50	Pass
BLE	2Mbps	1	19	2440	2.030	1.154	0.50	Pass
BLE	2Mbps	1	39	2480	2.028	1.154	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	0	2402	6.37	30.00	0.61	6.98	36.00	Pass	Default
BLE	2Mbps	1	19	2440	6.40	30.00	0.61	7.01	36.00	Pass	Default
BLE	2Mbps	1	39	2480	6.42	30.00	0.61	7.03	36.00	Pass	Default

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	6.32	-10.50	0.61	8.00	Pass
BLE	2Mbps	1	19	2440	6.28	-10.56	0.61	8.00	Pass
BLE	2Mbps	1	39	2480	6.37	-10.45	0.61	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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
BLE	1Mbps	1	0	2402	1.016	0.672	0.50	Pass
BLE	1Mbps	1	19	2440	1.017	0.675	0.50	Pass
BLE	1Mbps	1	39	2480	1.014	0.674	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	1Mbps	1	0	2402	6.39	30.00	1.33	7.72	36.00	Pass	Default
BLE	1Mbps	1	19	2440	6.27	30.00	1.33	7.60	36.00	Pass	Default
BLE	1Mbps	1	39	2480	6.40	30.00	1.33	7.73	36.00	Pass	Default

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	6.00	-8.63	1.33	8.00	Pass
BLE	1Mbps	1	19	2440	6.04	-8.56	1.33	8.00	Pass
BLE	1Mbps	1	39	2480	6.12	-8.42	1.33	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

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
BLE	2Mbps	1	0	2402	2.030	1.151	0.50	Pass
BLE	2Mbps	1	19	2440	2.027	1.153	0.50	Pass
BLE	2Mbps	1	39	2480	2.024	1.152	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
BLE	2Mbps	1	0	2402	6.41	30.00	1.33	7.74	36.00	Pass	Default
BLE	2Mbps	1	19	2440	6.29	30.00	1.33	7.62	36.00	Pass	Default
BLE	2Mbps	1	39	2480	6.43	30.00	1.33	7.76	36.00	Pass	Default

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	5.91	-11.01	1.33	8.00	Pass
BLE	2Mbps	1	19	2440	5.95	-10.93	1.33	8.00	Pass
BLE	2Mbps	1	39	2480	6.05	-10.81	1.33	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Setting
BLE	1Mbps	1	0	2402	3.58	Default
BLE	1Mbps	1	19	2440	3.80	Default
BLE	1Mbps	1	39	2480	3.57	Default

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Setting
BLE	2Mbps	1	0	2402	3.49	Default
BLE	2Mbps	1	19	2440	3.74	Default
BLE	2Mbps	1	39	2480	3.55	Default

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Setting
BLE	1Mbps	1	0	2402	3.66	Default
BLE	1Mbps	1	19	2440	3.61	Default
BLE	1Mbps	1	39	2480	3.69	Default

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Setting
BLE	2Mbps	1	0	2402	3.47	Default
BLE	2Mbps	1	19	2440	3.45	Default
BLE	2Mbps	1	39	2480	3.50	Default

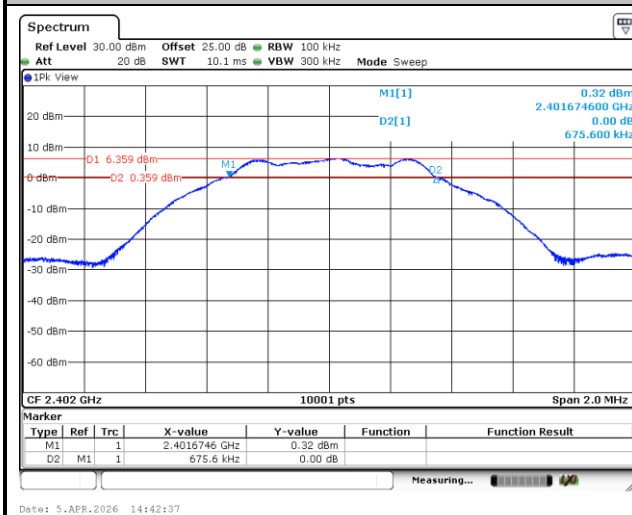


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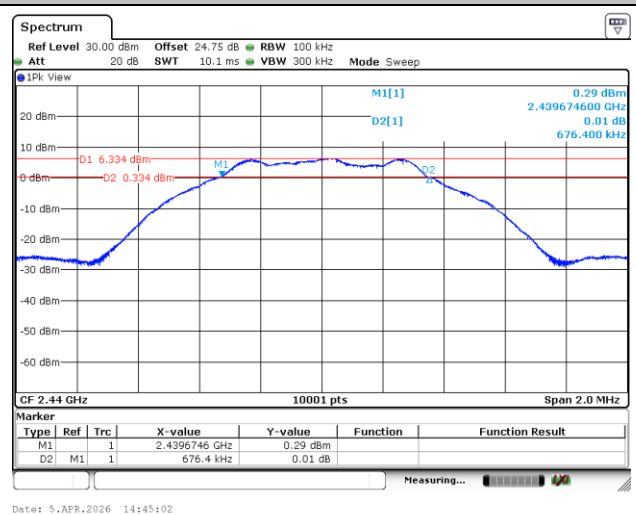
6dB Bandwidth

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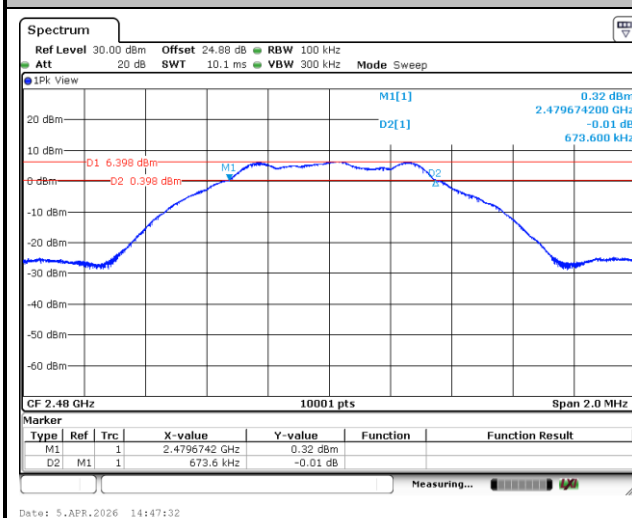
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



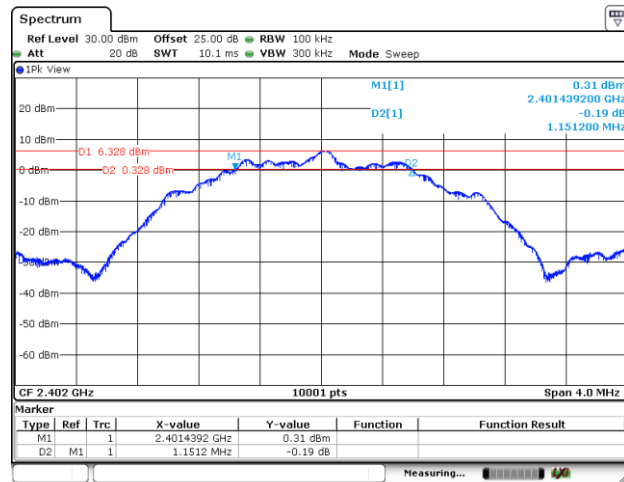
6 dB Bandwidth Plot on Channel 39





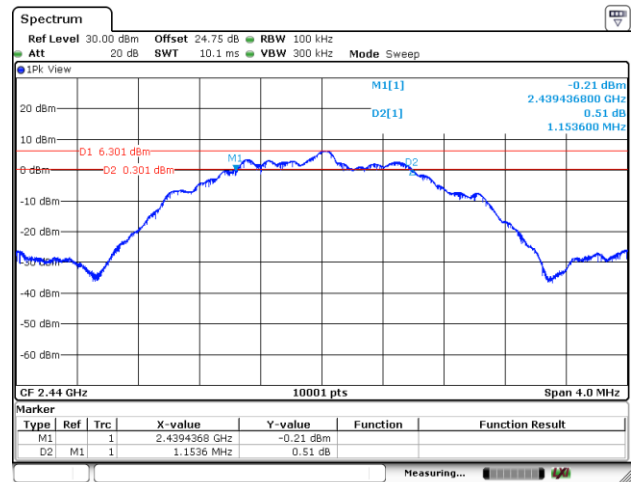
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6 dB Bandwidth Plot on Channel 00



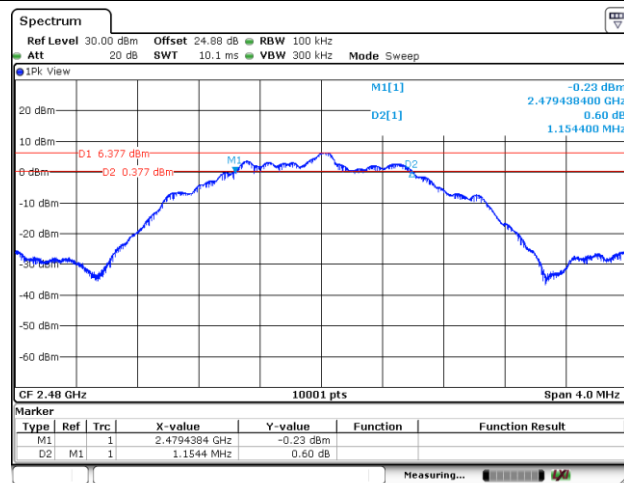
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6 dB Bandwidth Plot on Channel 19



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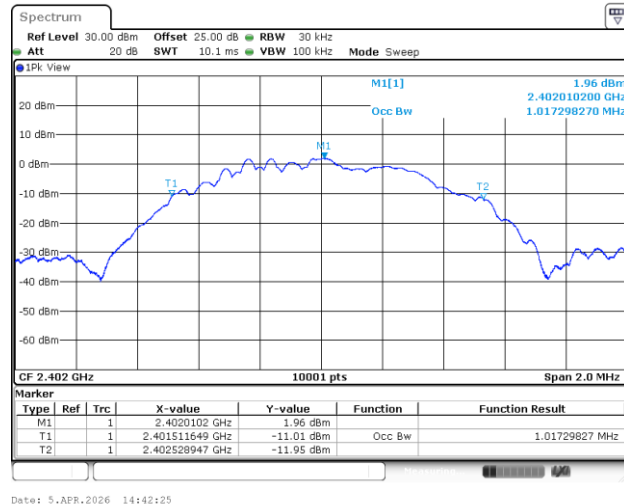
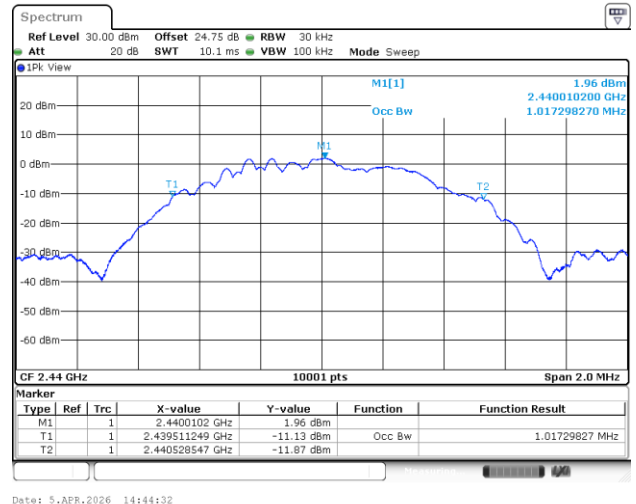
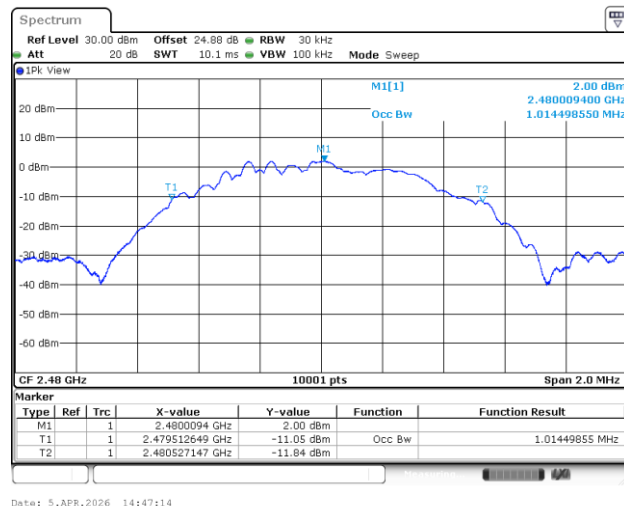
6 dB Bandwidth Plot on Channel 39



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**99% Occupied Bandwidth**

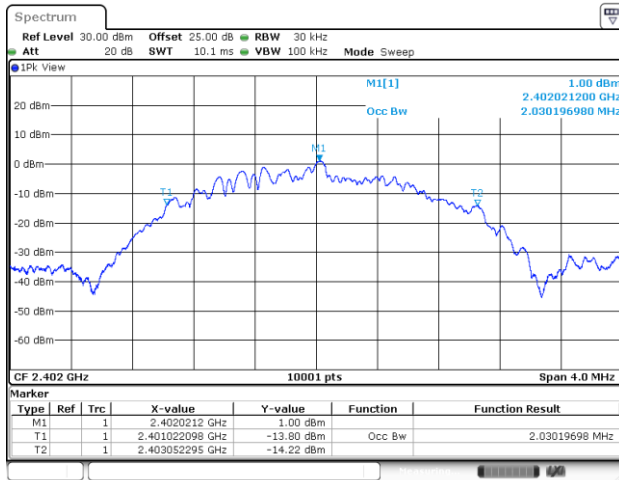
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99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

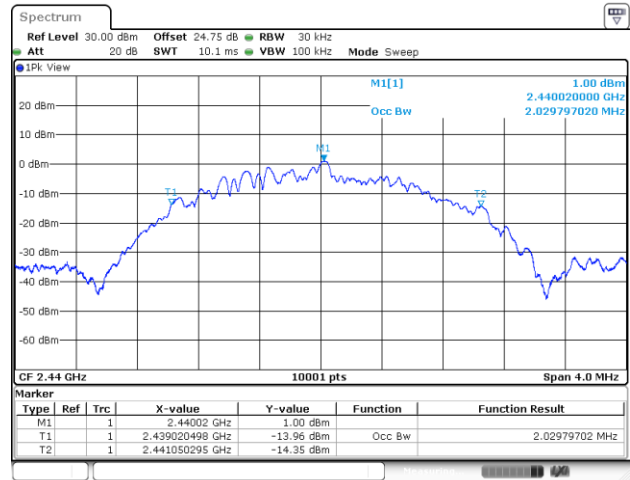


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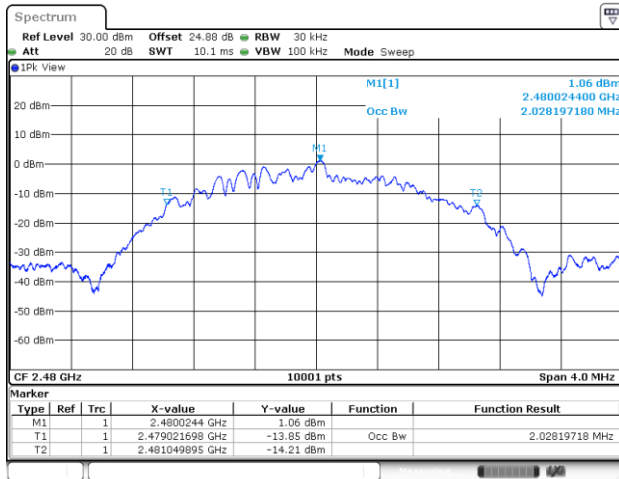
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19

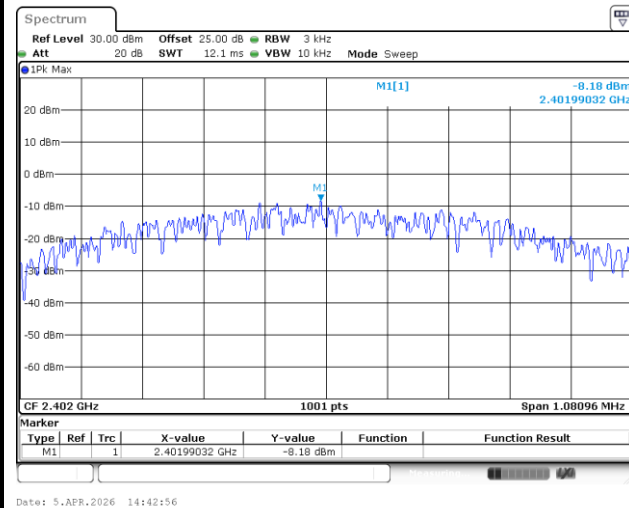
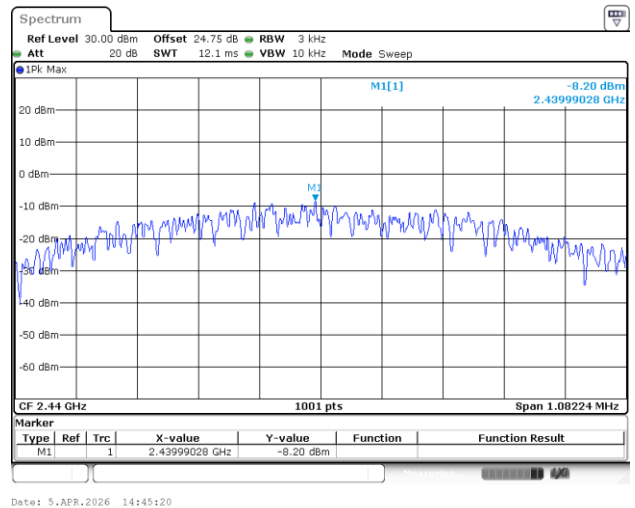
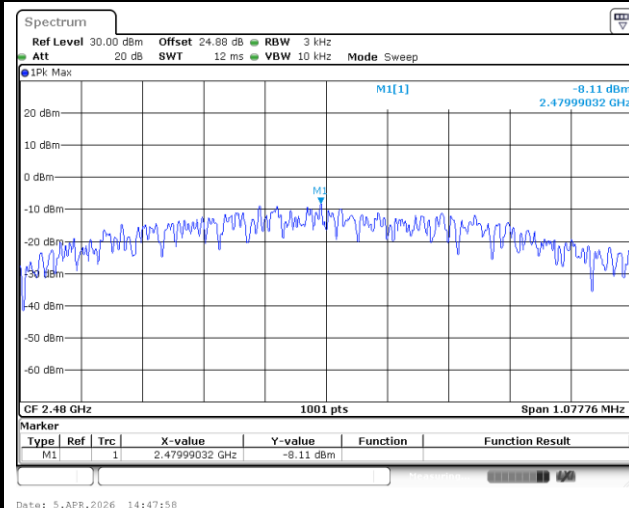


99% Occupied Bandwidth Plot on Channel 39



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

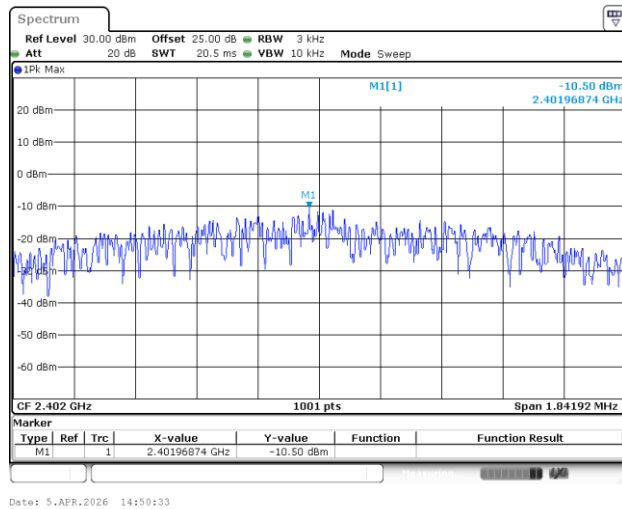
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Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

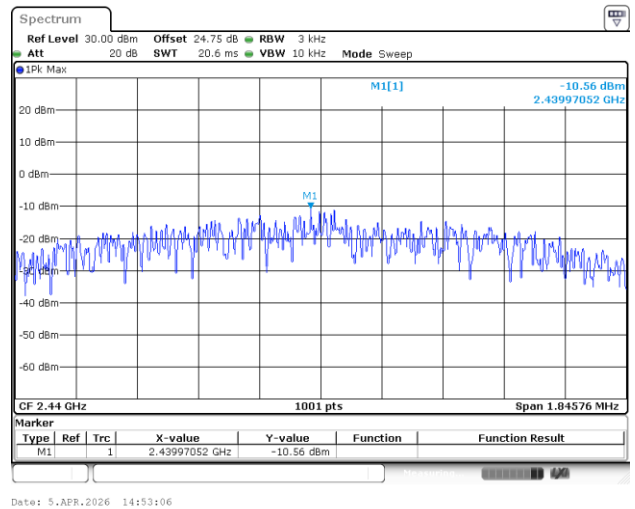


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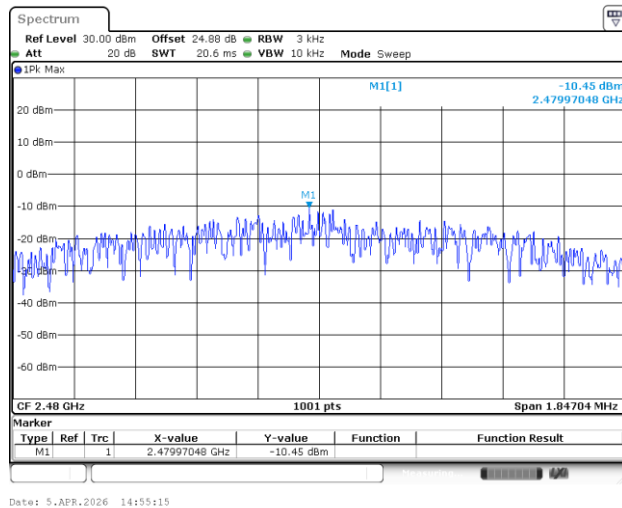
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19

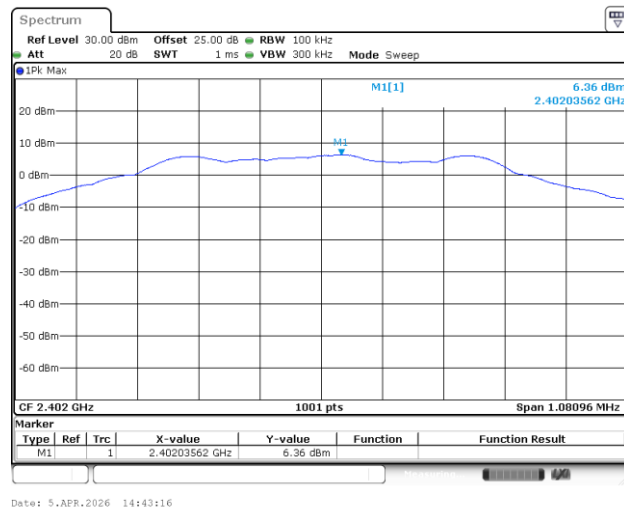
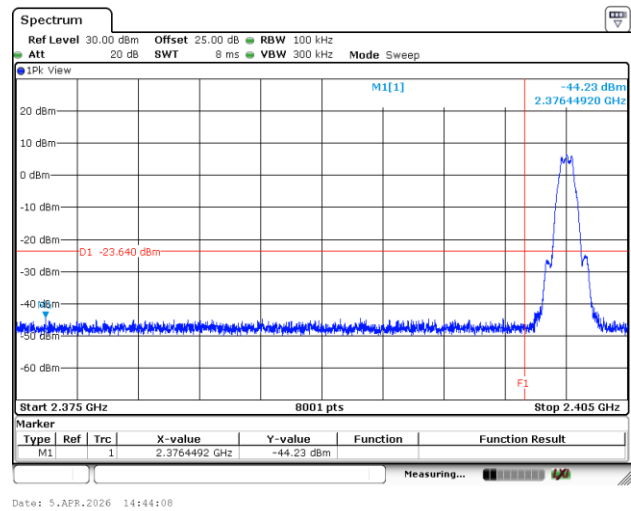
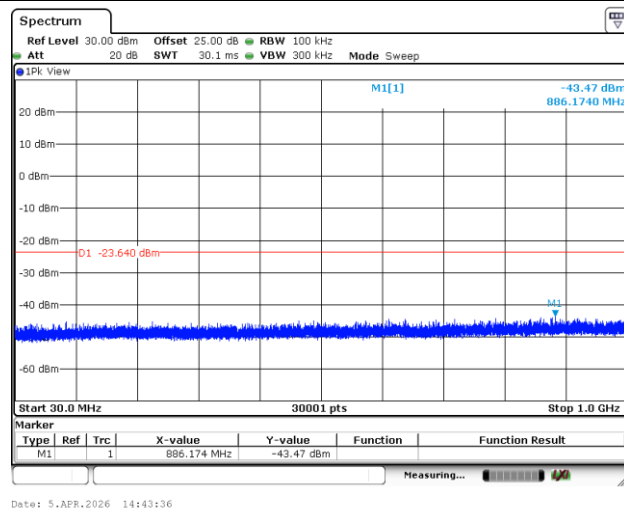
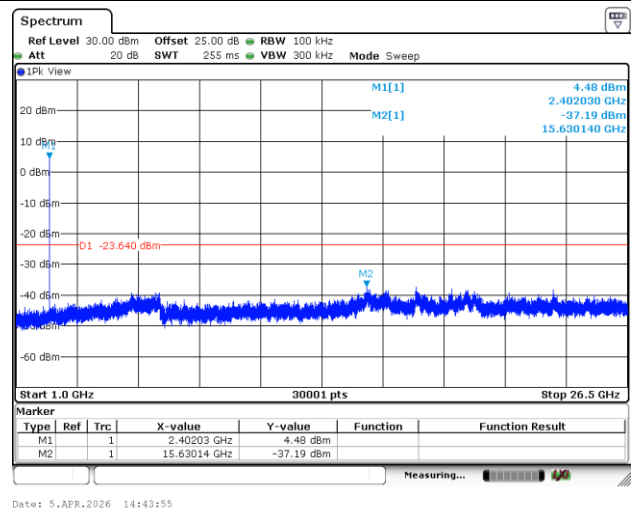


Power Density (dBm/3kHz) Plot Channel 39



**Band Edge and Conducted Spurious Emission**

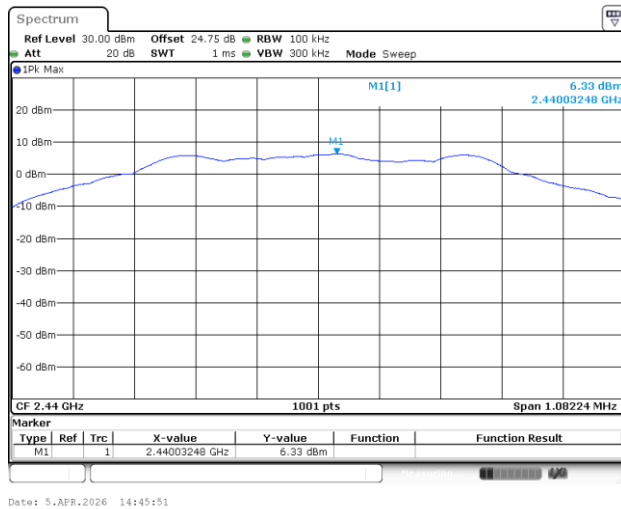
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Channel 00**100kHz PSD reference Level Plot****Plot on Channel 00****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

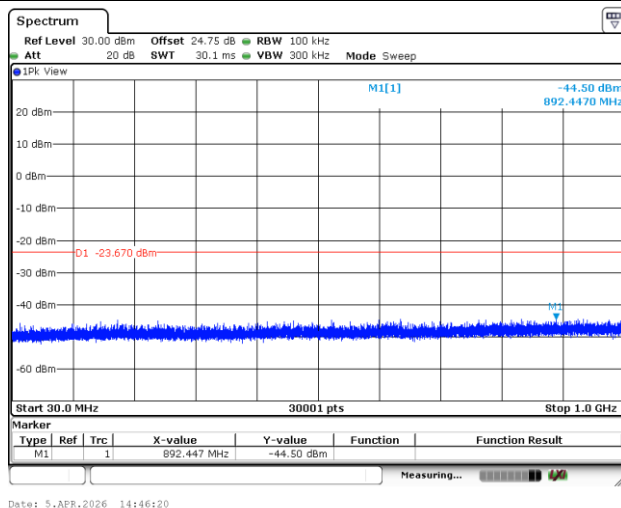


Channel 19

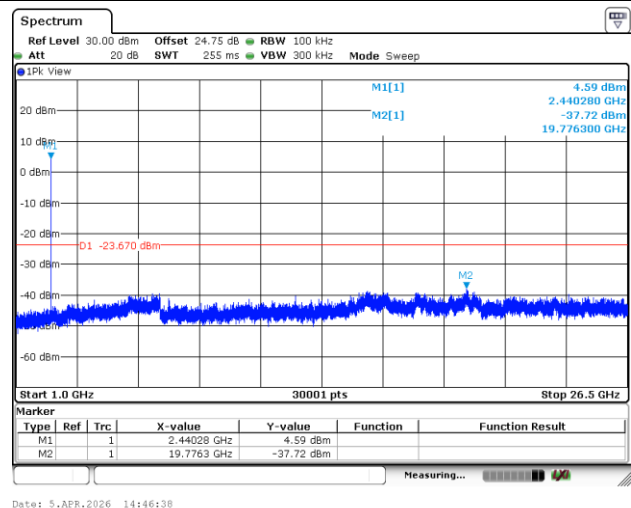
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



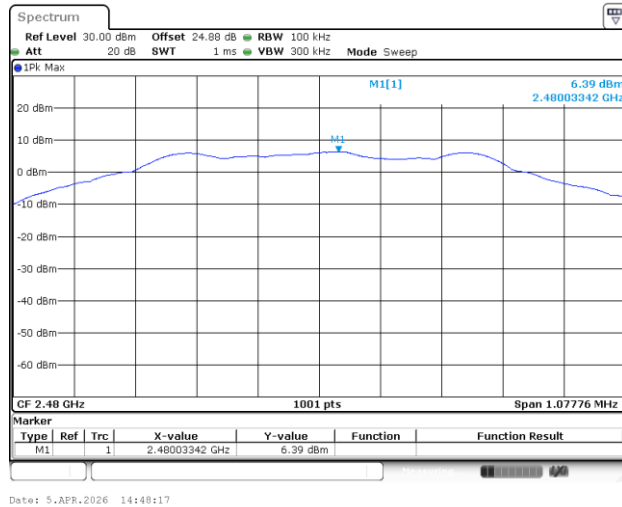
Spurious Emission 1GHz~26.5GHz Plot



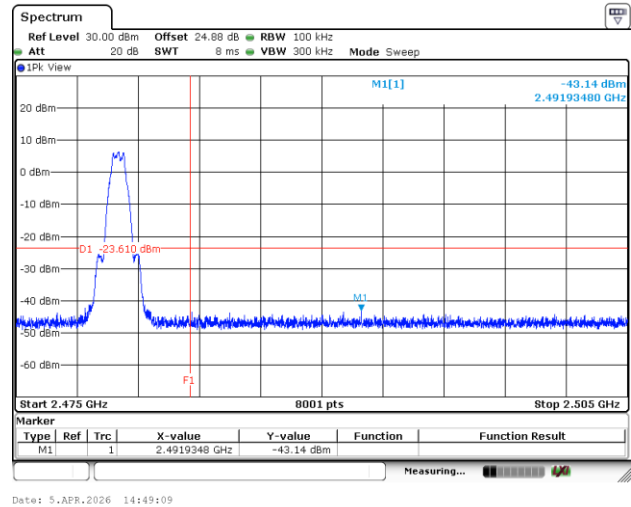


Channel 39

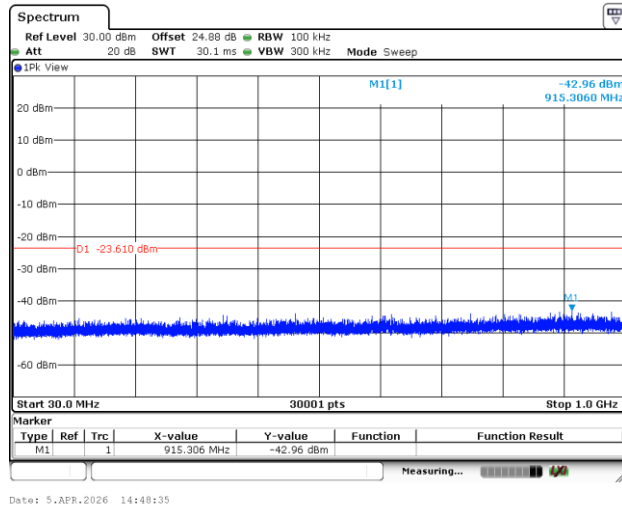
100kHz PSD reference Level Plot



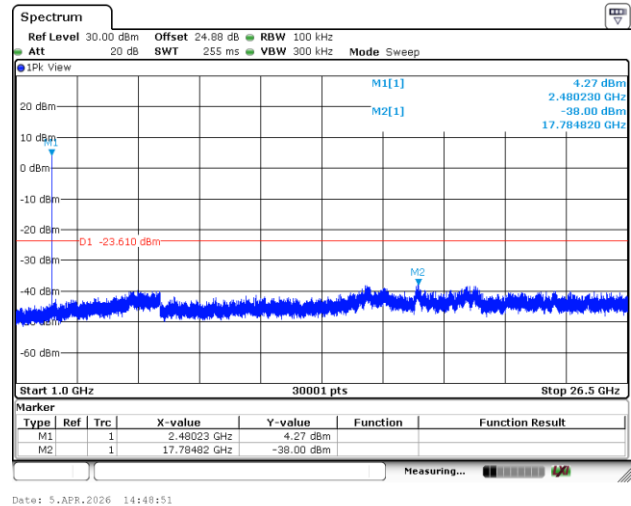
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot

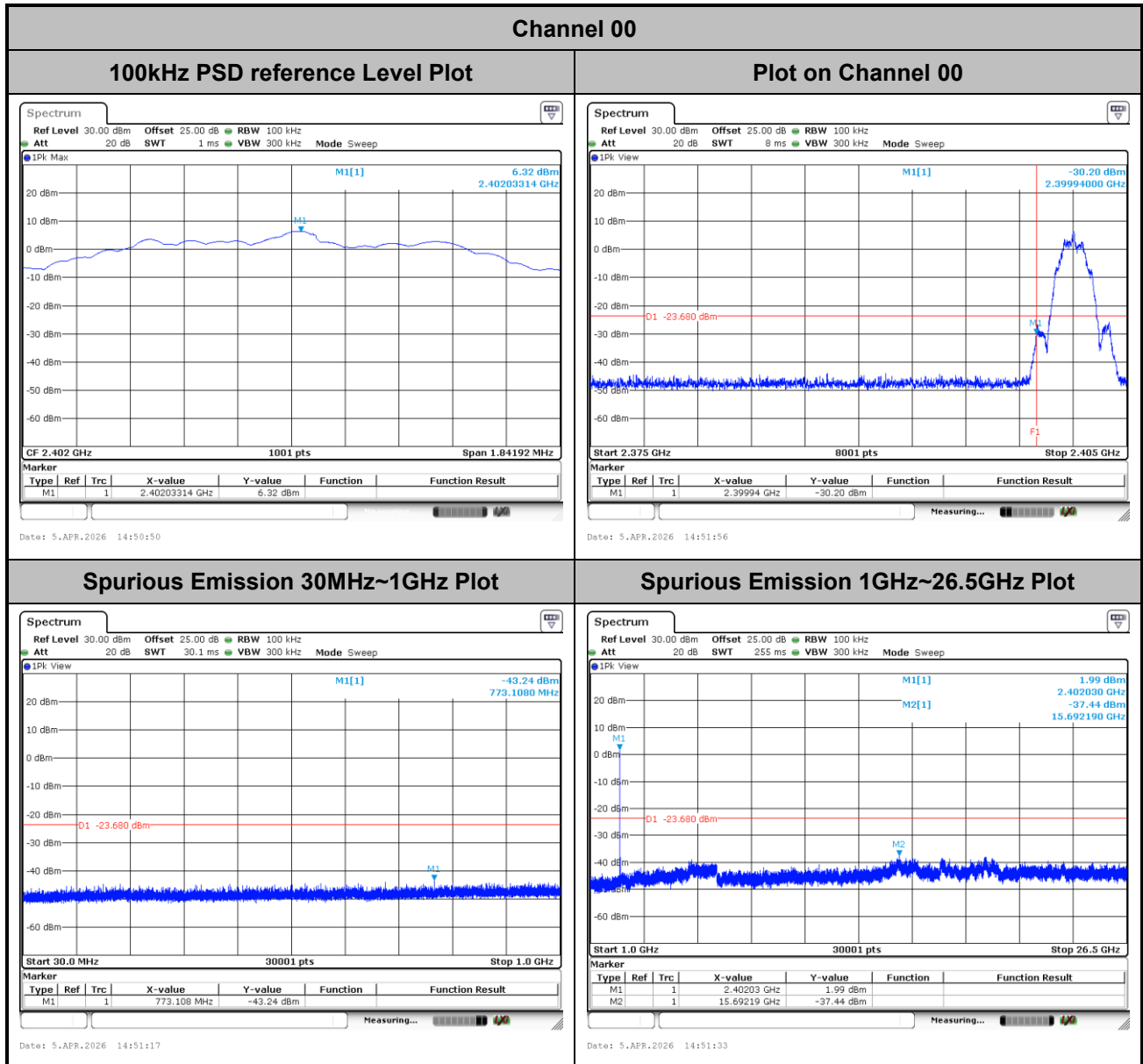


Spurious Emission 1GHz~26.5GHz Plot





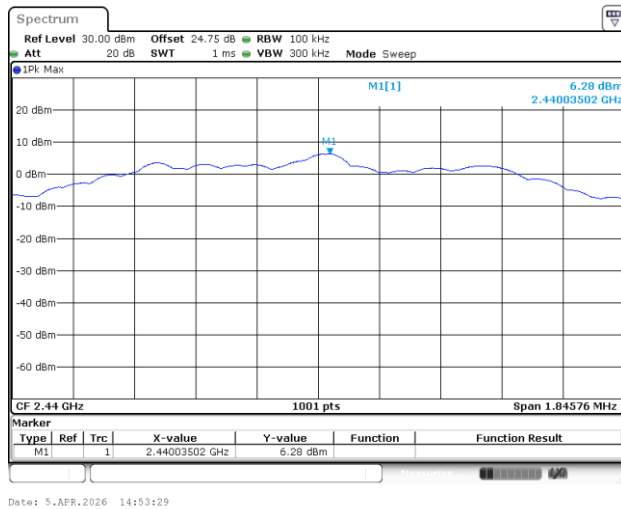
<2M>



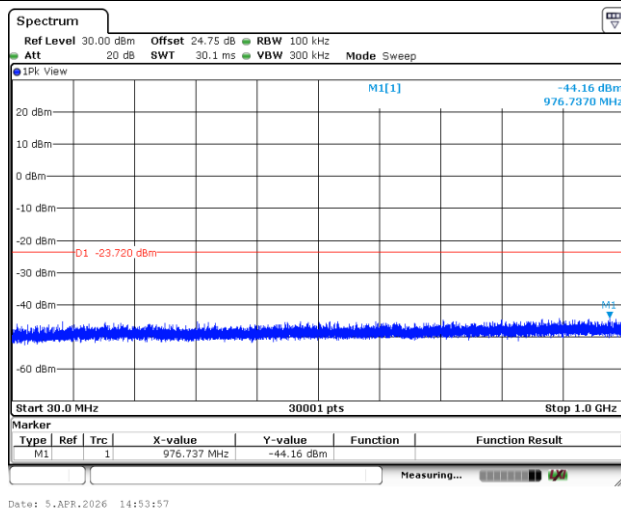


Channel 19

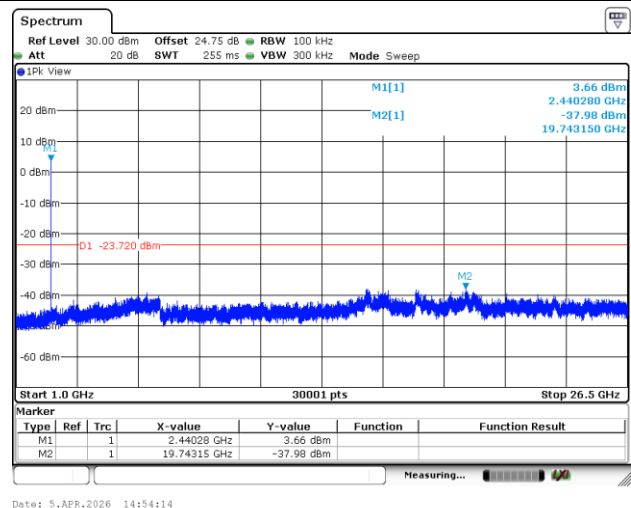
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



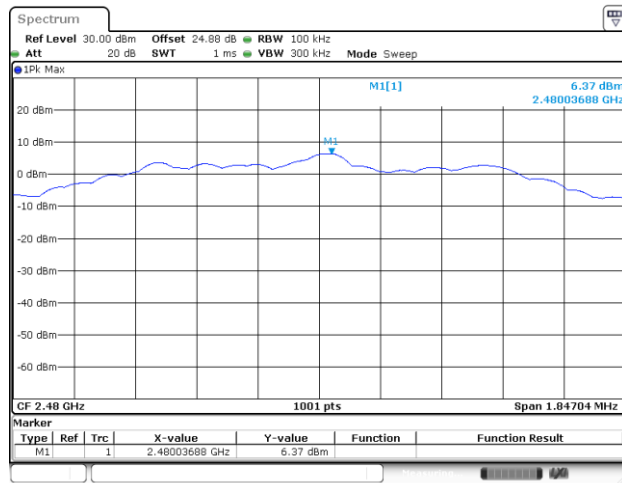
Spurious Emission 1GHz~26.5GHz Plot



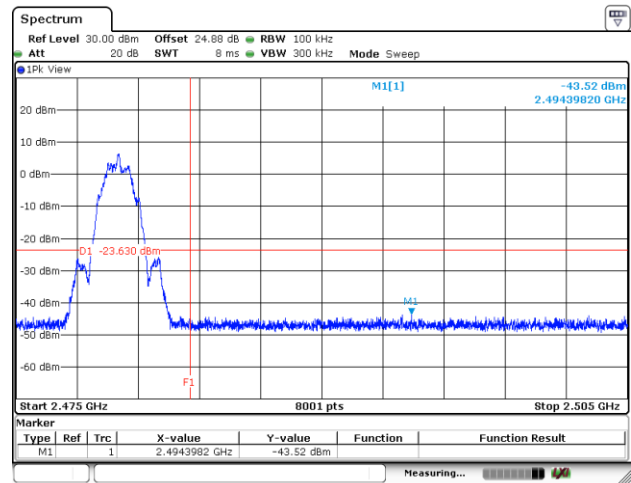


Channel 39

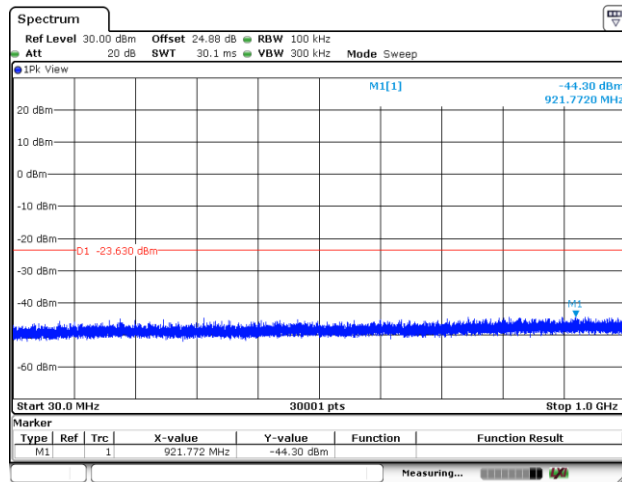
100kHz PSD reference Level Plot



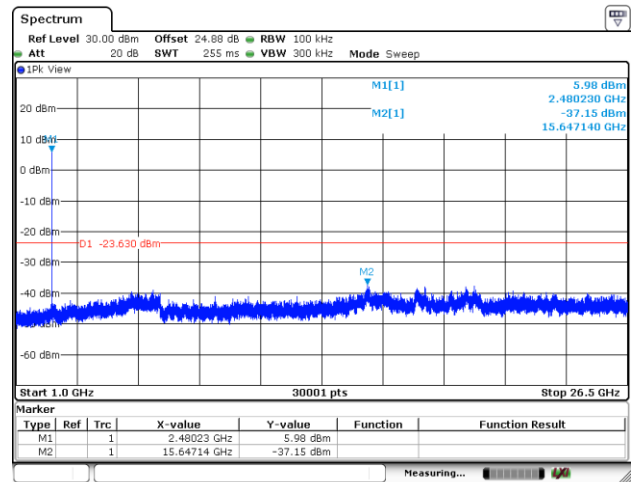
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



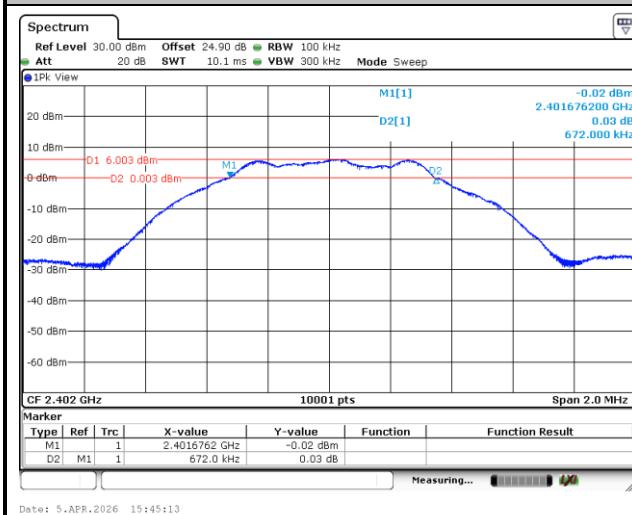


Number of TX = 1, Ant. 2 (Measured)

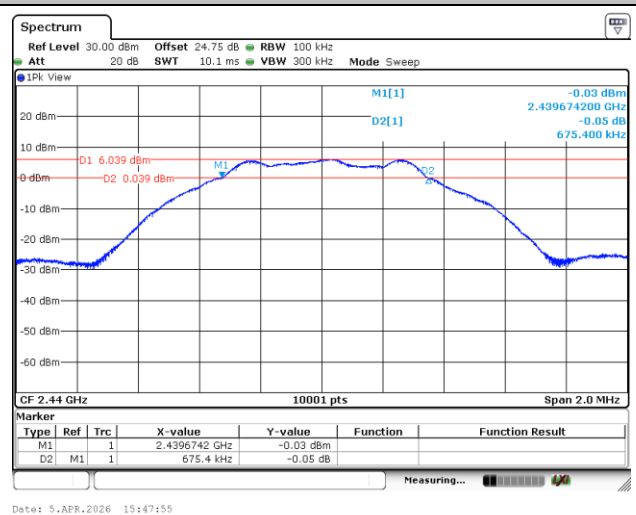
6dB Bandwidth

<1M>

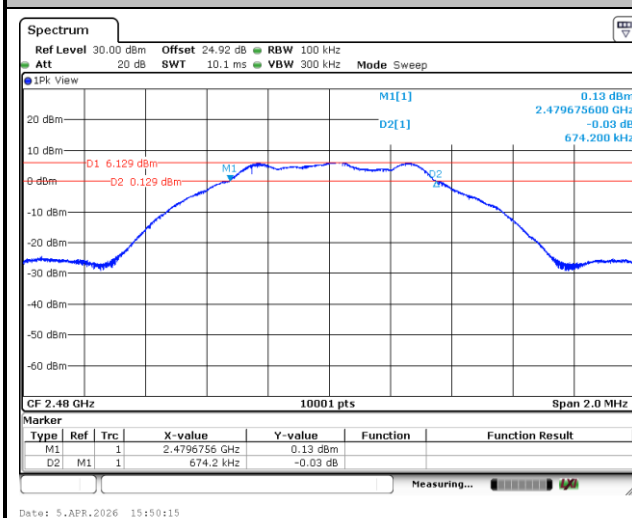
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



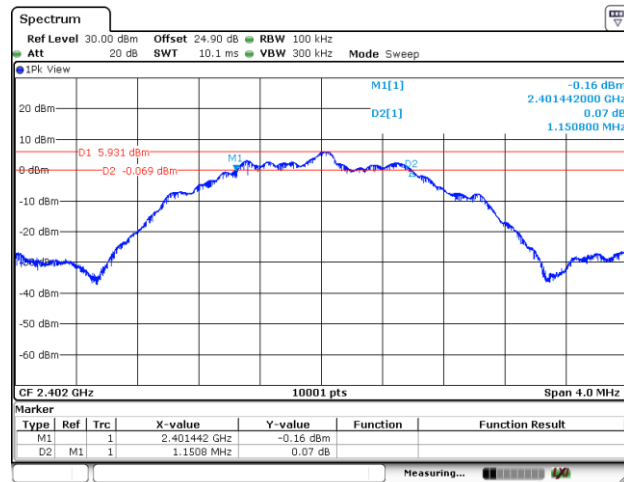
6 dB Bandwidth Plot on Channel 39



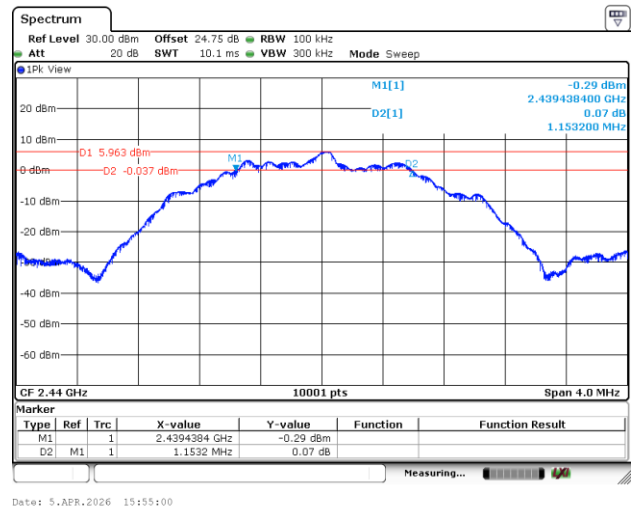


<2M>

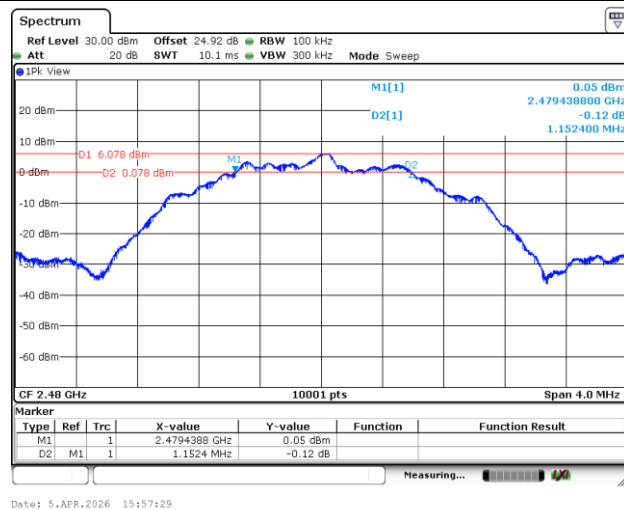
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19

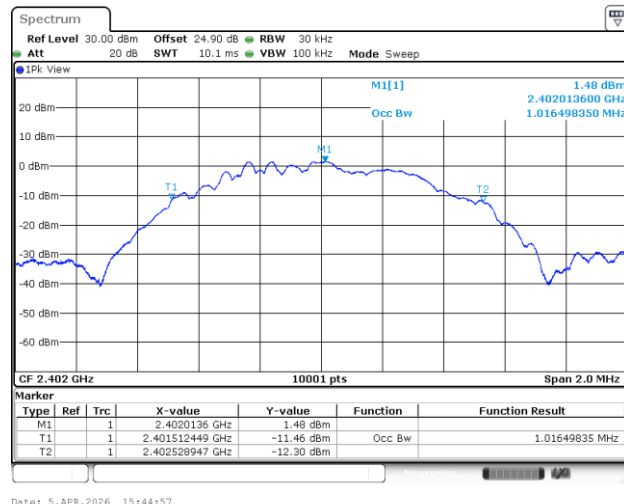
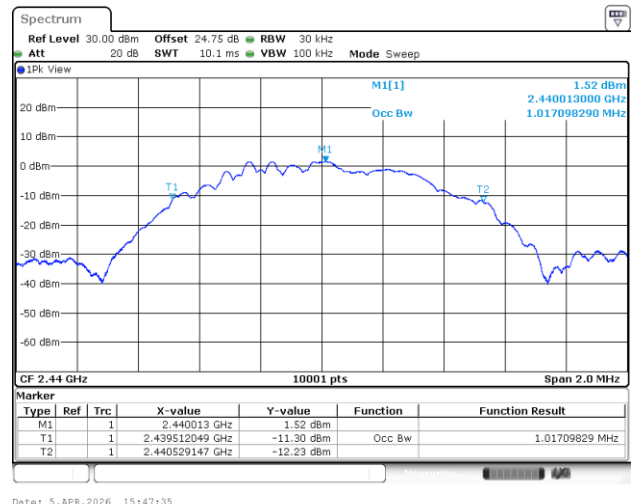
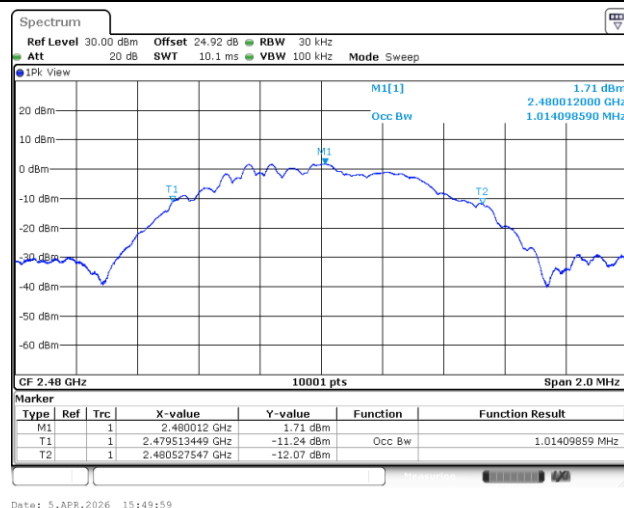


6 dB Bandwidth Plot on Channel 39



**99% Occupied Bandwidth**

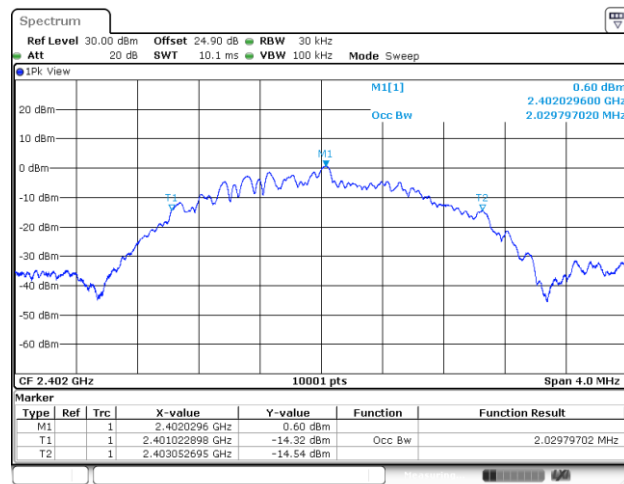
<1M>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

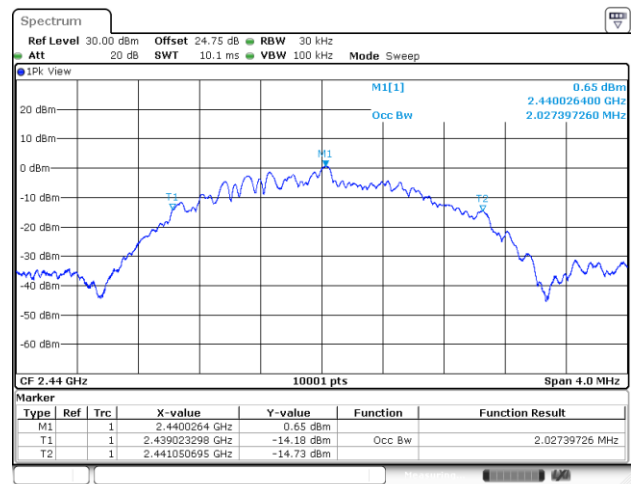


<2M>

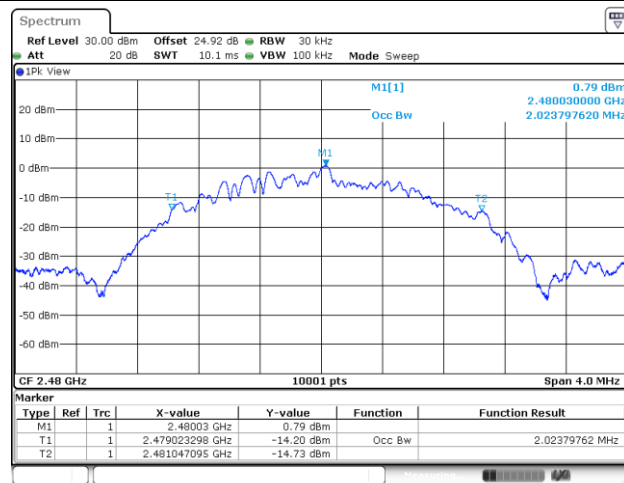
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19

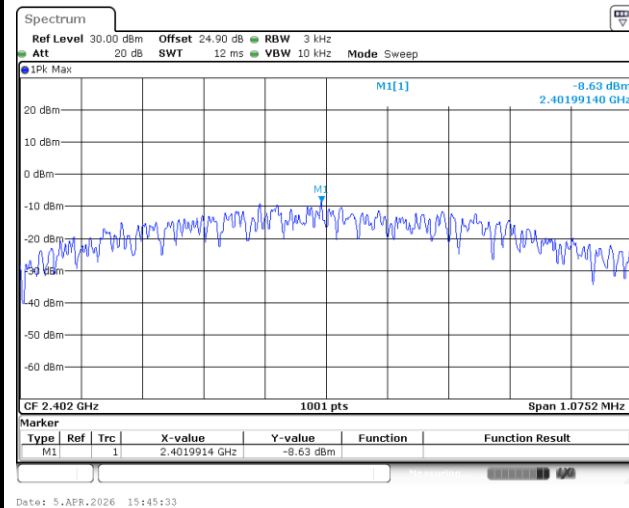
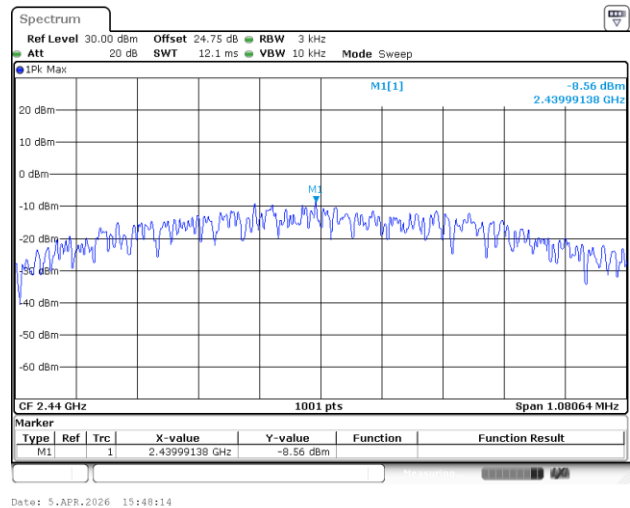
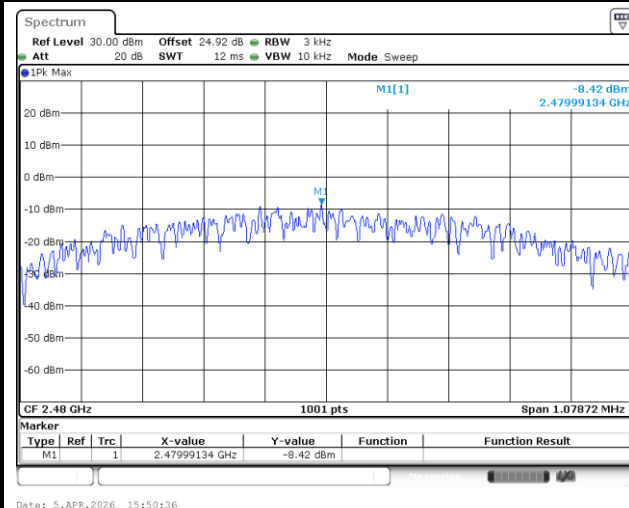


99% Occupied Bandwidth Plot on Channel 39



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

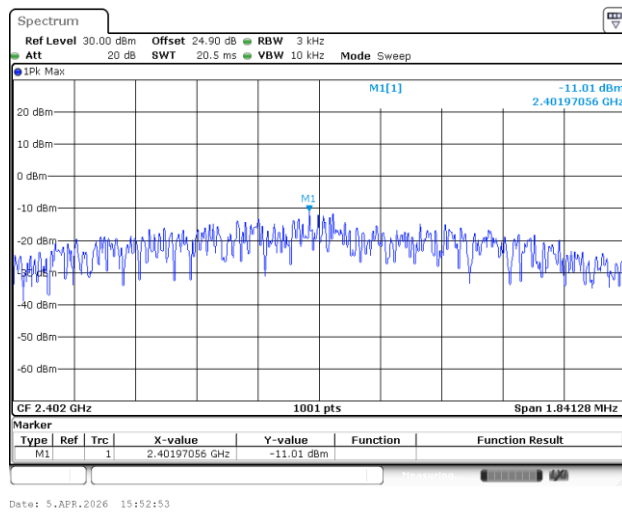
<1M>

Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

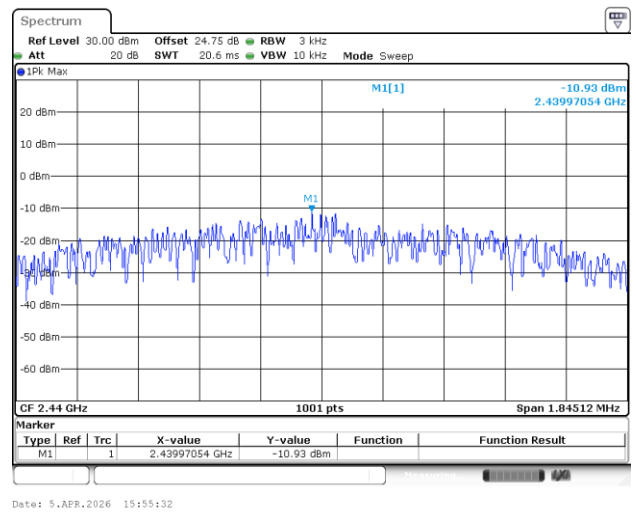


<2M>

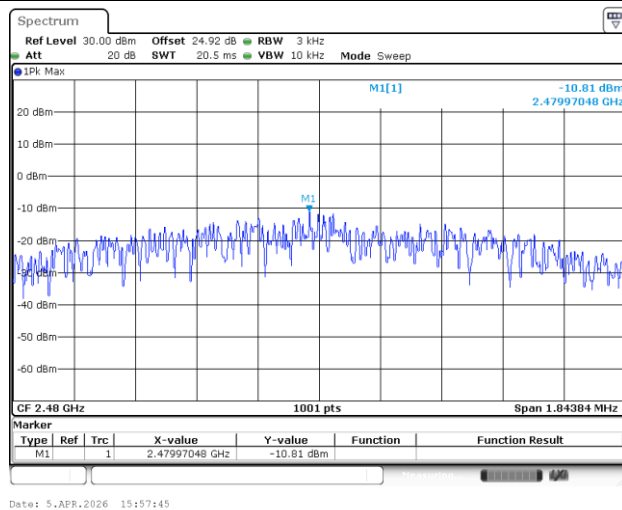
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19

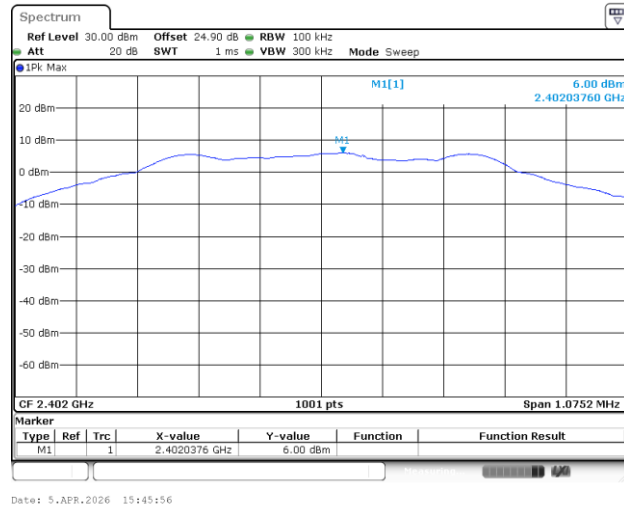
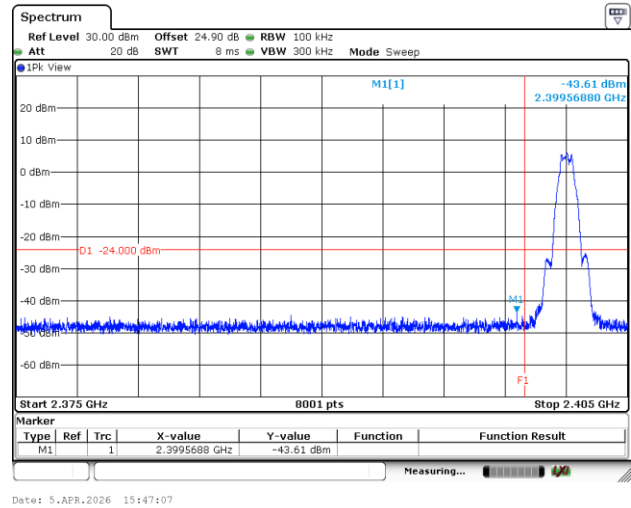
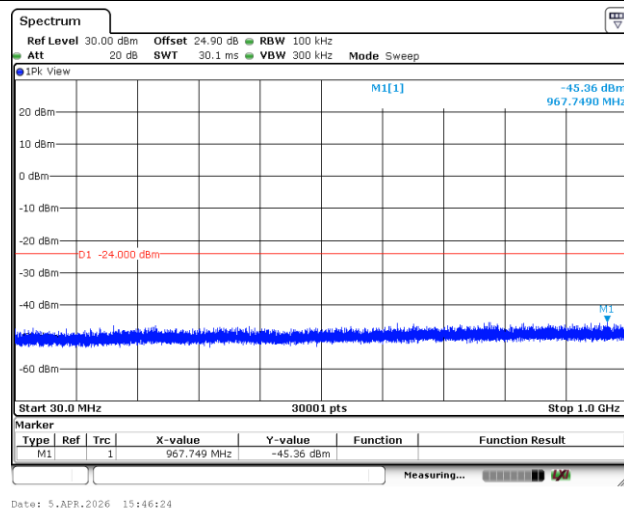
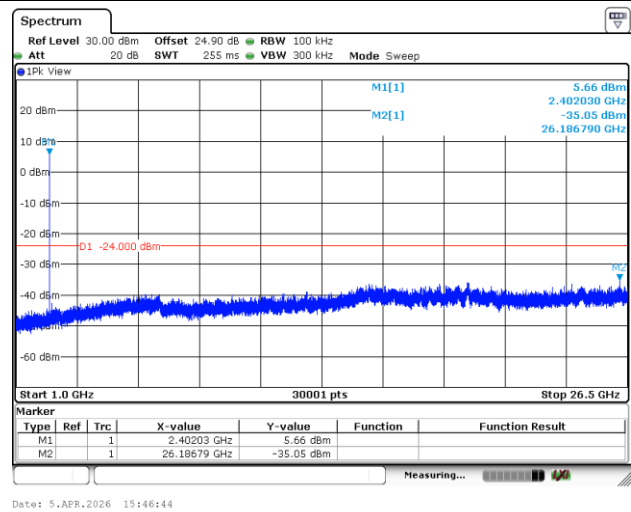


Power Density (dBm/3kHz) Plot Channel 39



**Band Edge and Conducted Spurious Emission**

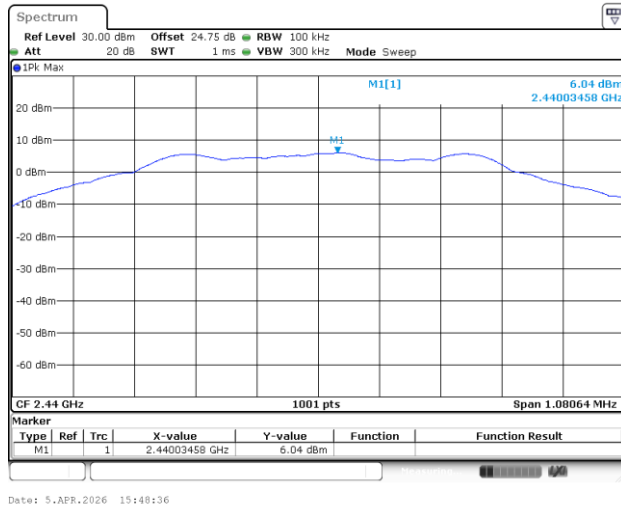
<1M>

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

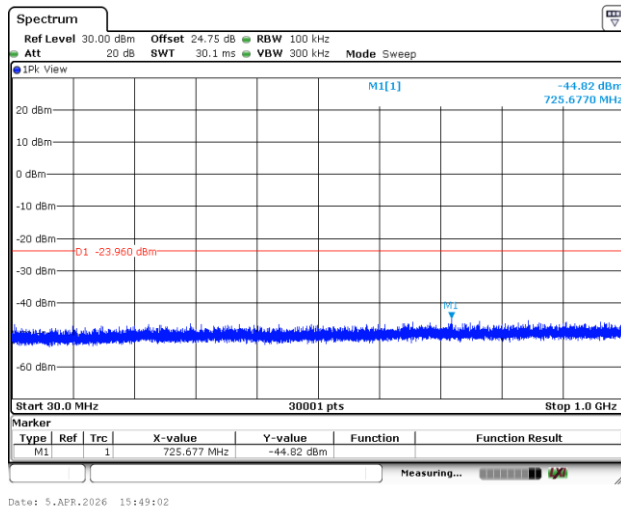


Channel 19

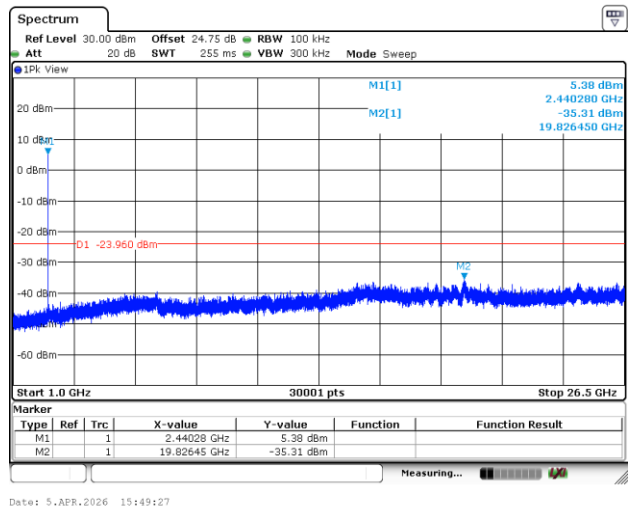
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



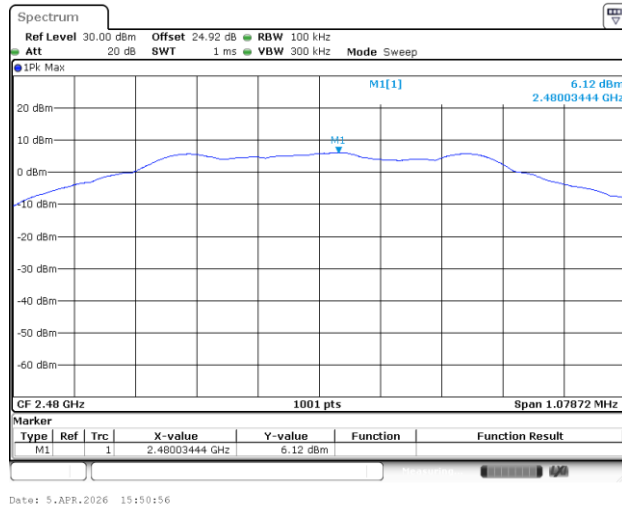
Spurious Emission 1GHz~26.5GHz Plot



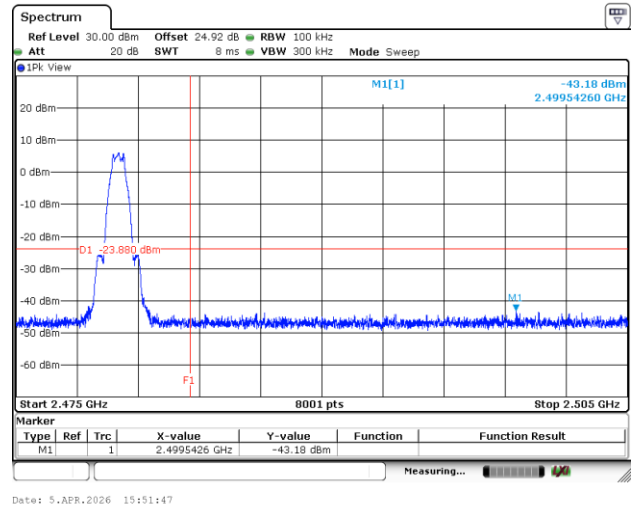


Channel 39

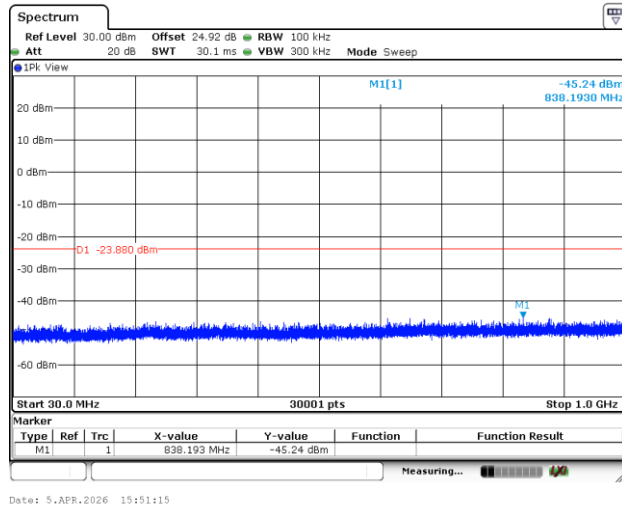
100kHz PSD reference Level Plot



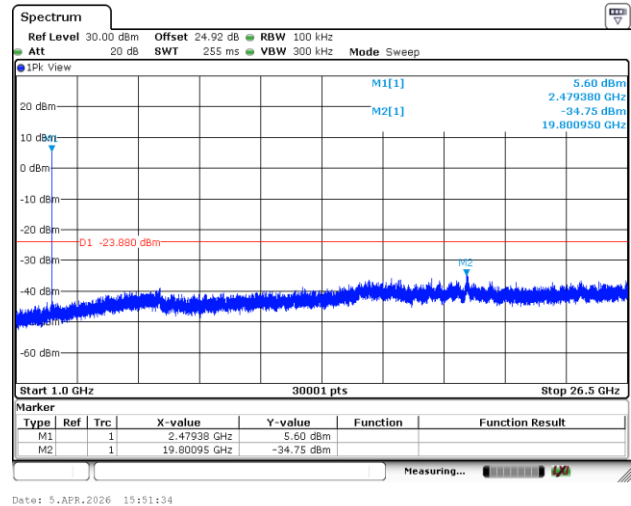
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot

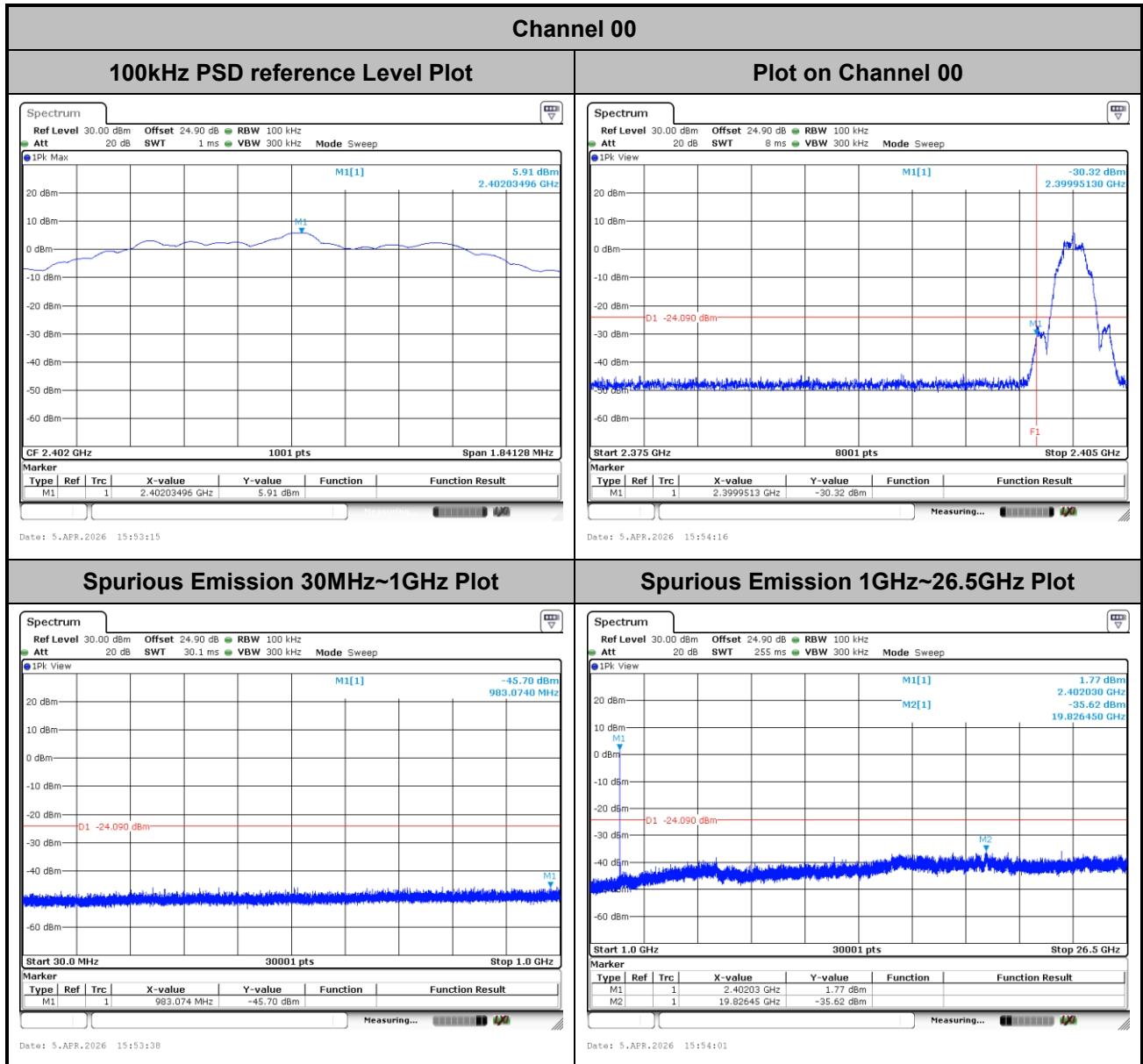


Spurious Emission 1GHz~26.5GHz Plot





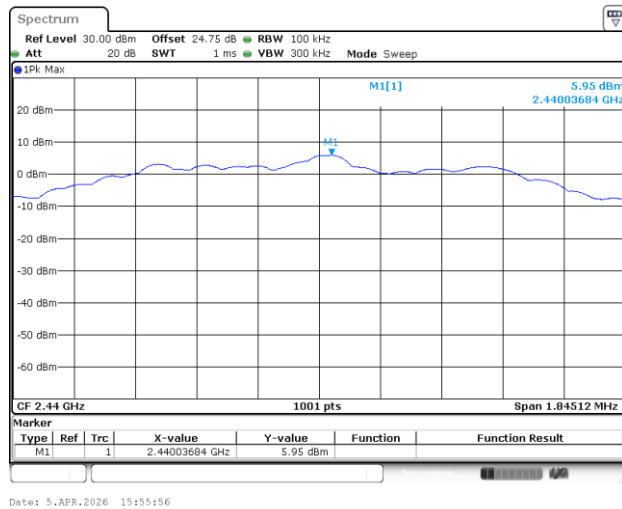
<2M>



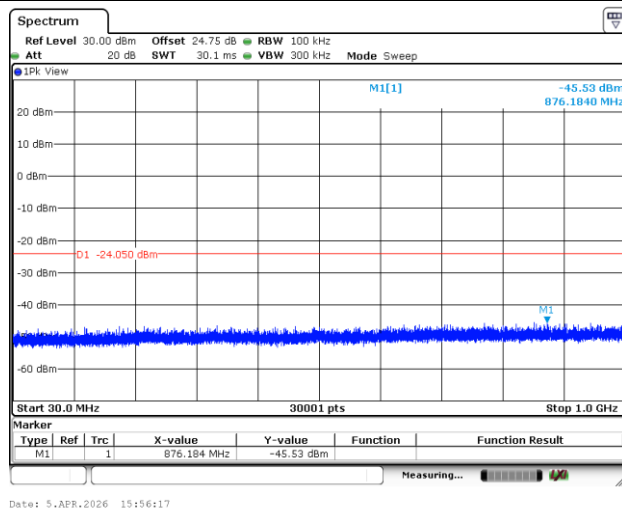


Channel 19

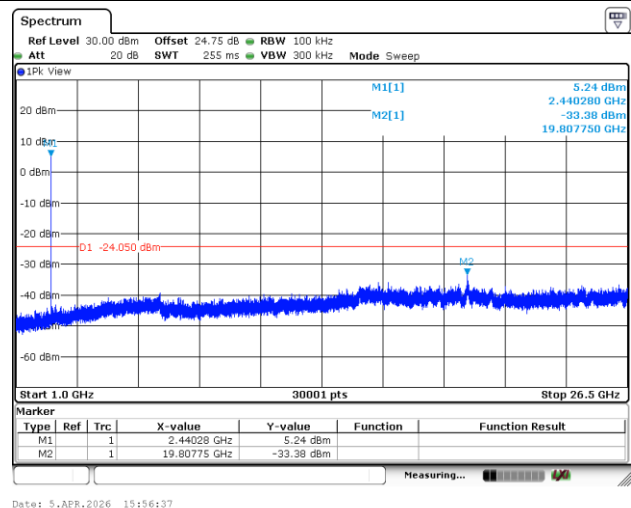
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



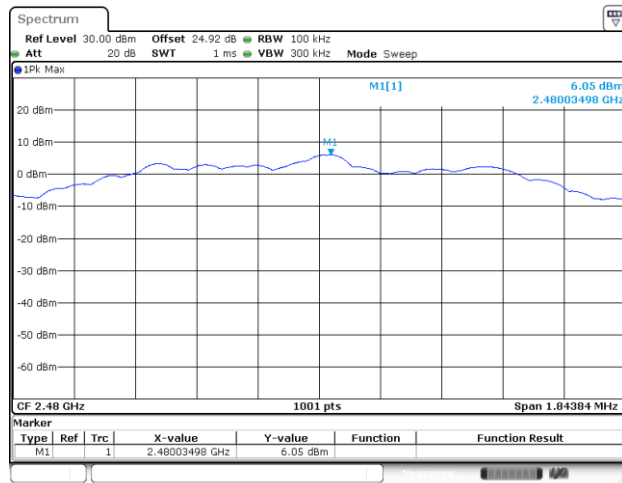
Spurious Emission 1GHz~26.5GHz Plot



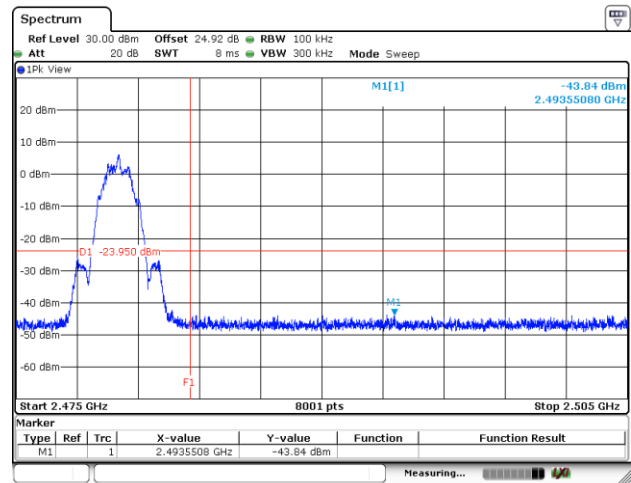


Channel 39

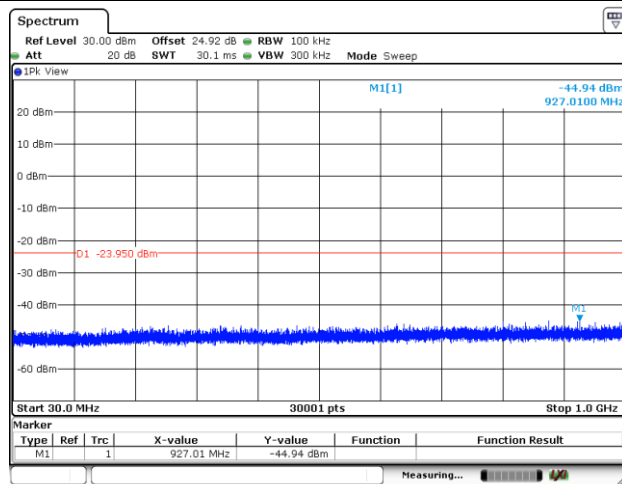
100kHz PSD reference Level Plot



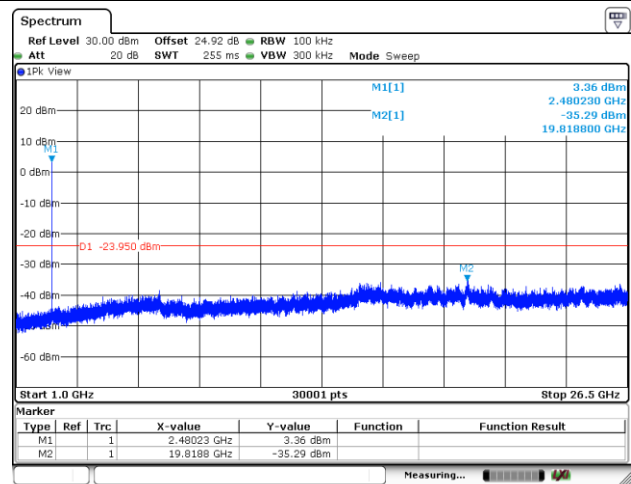
Plot on Channel 39



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





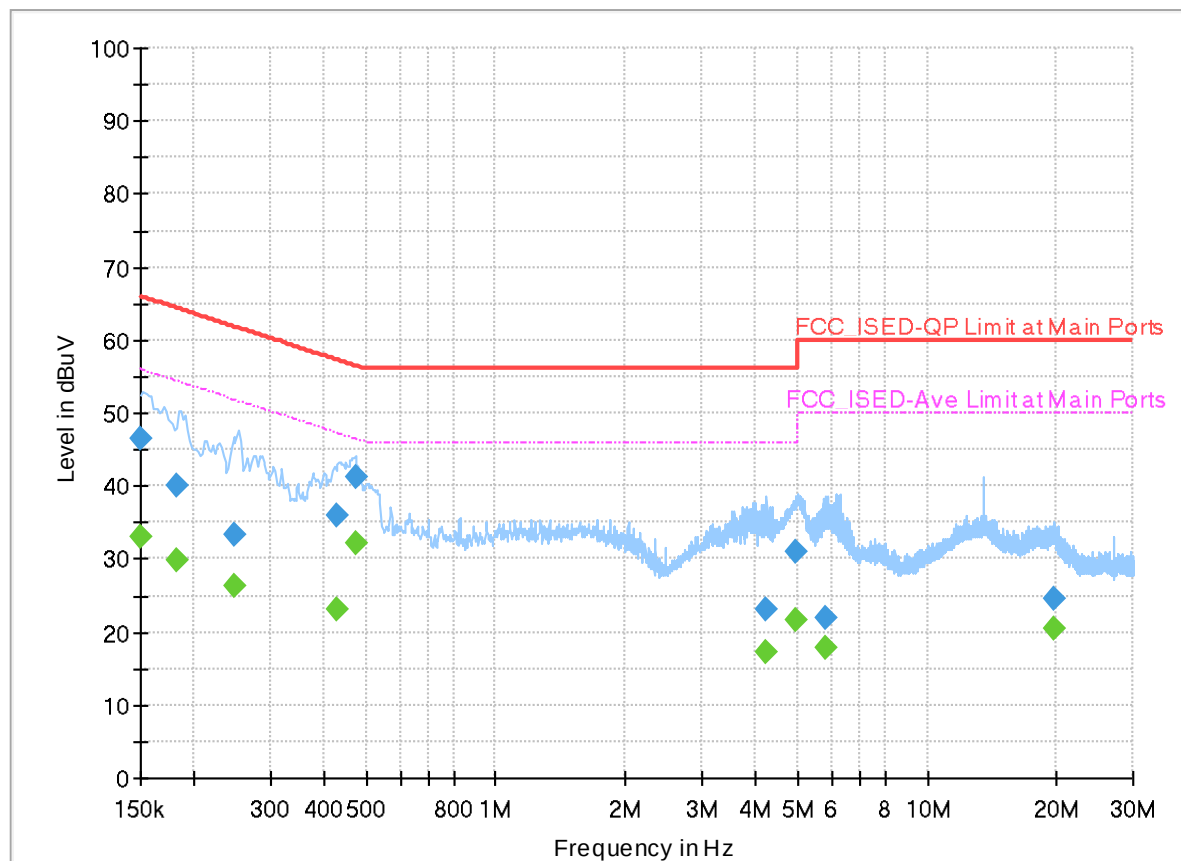
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	Temperature :	23~26°C
		Relative Humidity :	45~55%

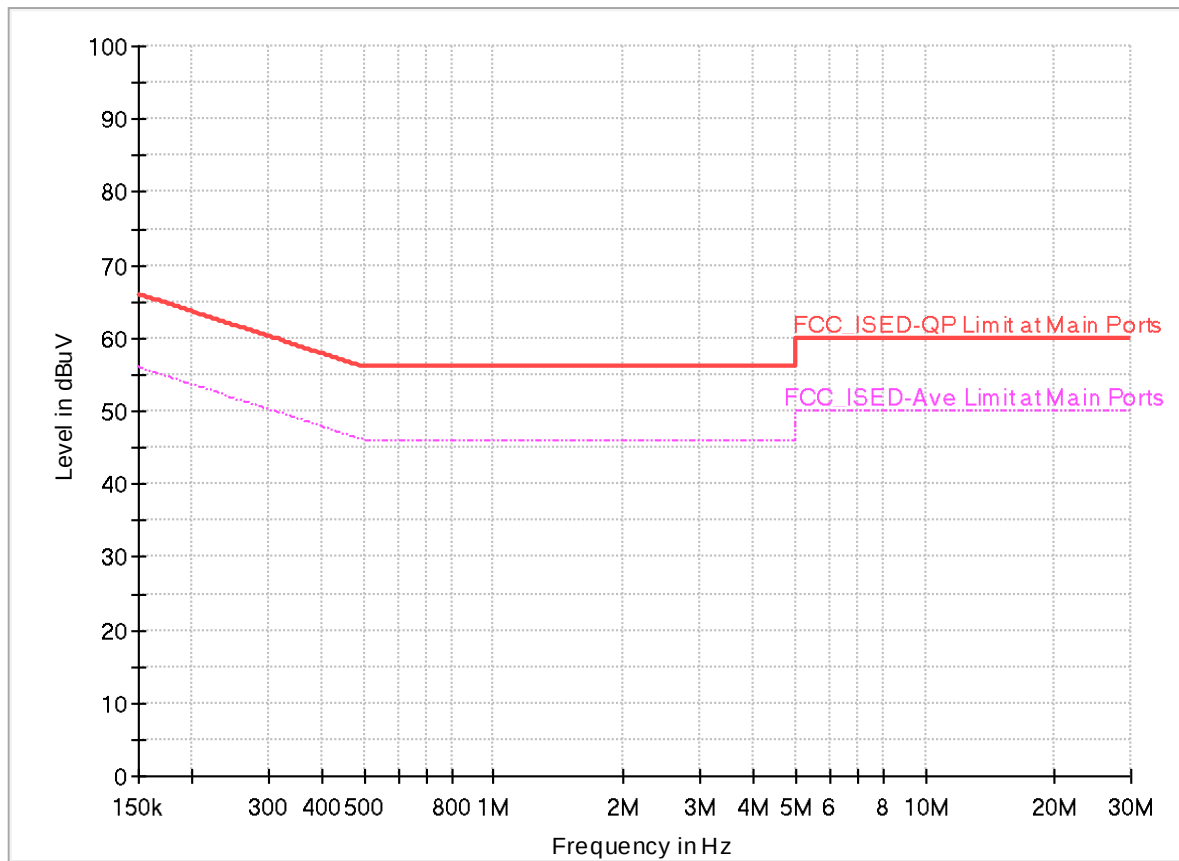
EUT Information

Report NO :	5N0611-01
Test Mode :	Mode 1
Test Voltage :	Power from system
Phase :	Line

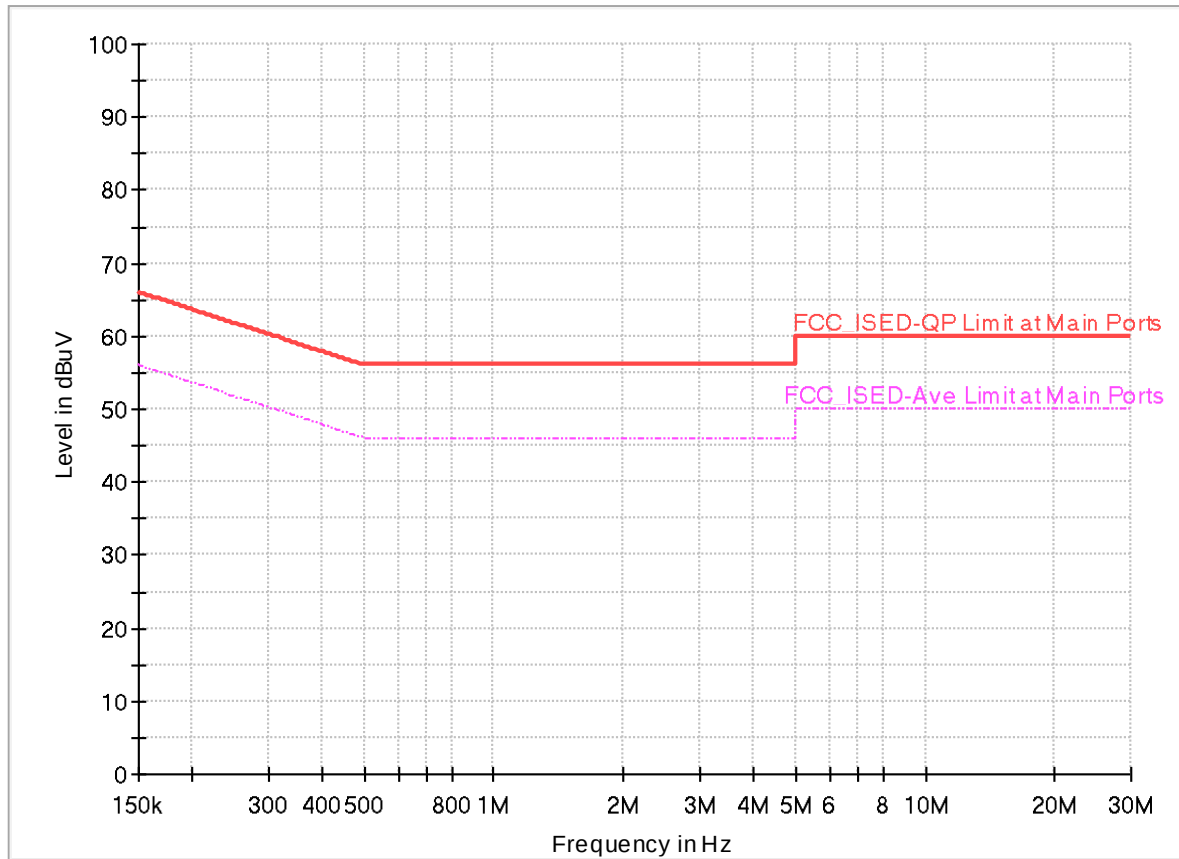
Full Spectrum



Current Measurement



Zoom



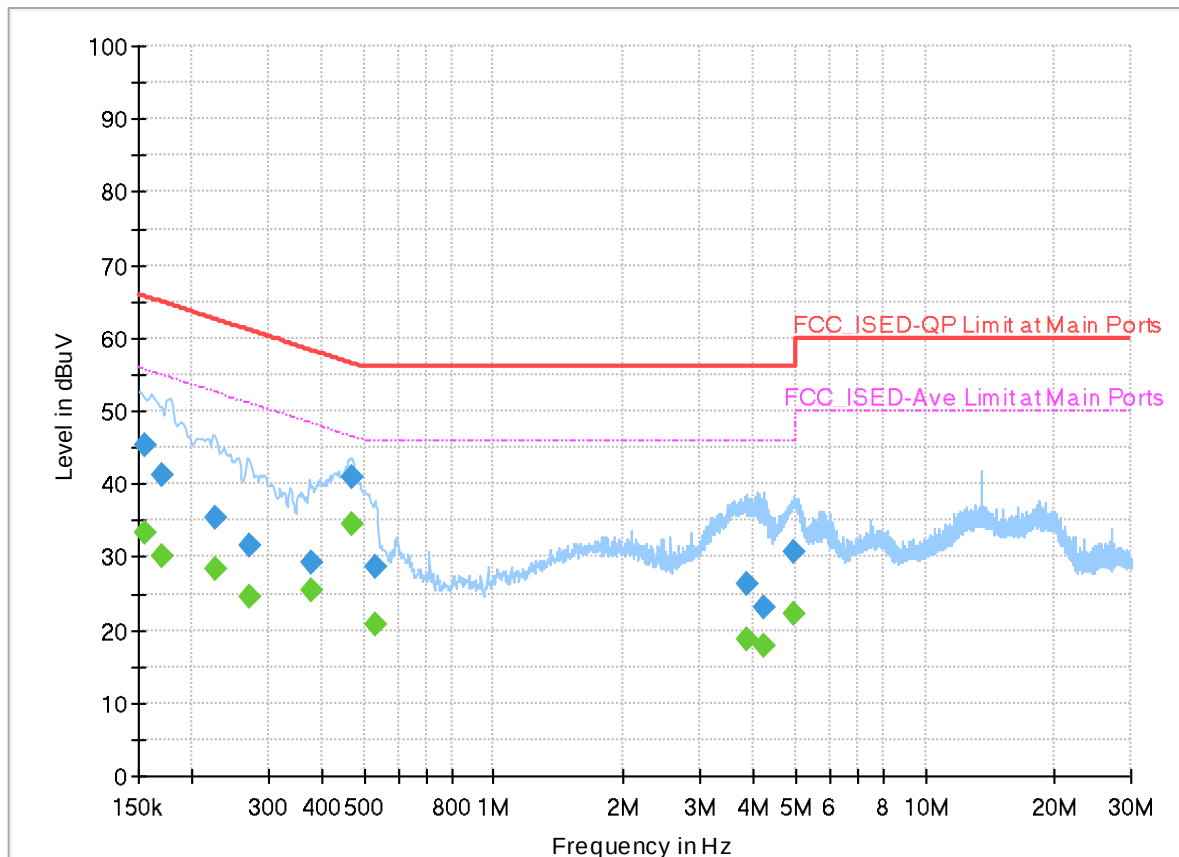
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	46.58	---	66.00	19.42	L1	ON	20.0
0.150000	---	33.07	56.00	22.93	L1	ON	20.0
0.181500	40.01	---	64.42	24.41	L1	ON	19.9
0.181500	---	29.72	54.42	24.70	L1	ON	19.9
0.246750	33.46	---	61.87	28.41	L1	ON	19.9
0.246750	---	26.42	51.87	25.45	L1	ON	19.9
0.429000	36.09	---	57.27	21.18	L1	ON	19.9
0.429000	---	23.11	47.27	24.16	L1	ON	19.9
0.473460	41.23	---	56.45	15.22	L1	ON	19.9
0.473460	---	32.18	46.45	14.27	L1	ON	19.9
4.242750	23.01	---	56.00	32.99	L1	ON	20.0
4.242750	---	17.31	46.00	28.69	L1	ON	20.0
4.938810	31.04	---	56.00	24.96	L1	ON	20.0
4.938810	---	21.77	46.00	24.23	L1	ON	20.0
5.833140	21.86	---	60.00	38.14	L1	ON	20.0
5.833140	---	17.83	50.00	32.17	L1	ON	20.0
19.741560	24.65	---	60.00	35.35	L1	ON	20.2
19.741560	---	20.51	50.00	29.49	L1	ON	20.2

EUT Information

Report NO : 5N0611-01
 Test Mode : Mode 1
 Test Voltage : Power from system
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154590	---	33.23	55.75	22.52	N	ON	19.9
0.154590	45.36	---	65.75	20.39	N	ON	19.9
0.170790	---	30.16	54.92	24.76	N	ON	19.9
0.170790	41.26	---	64.92	23.66	N	ON	19.9
0.225240	---	28.32	52.62	24.30	N	ON	19.9
0.225240	35.27	---	62.62	27.35	N	ON	19.9
0.269970	---	24.53	51.12	26.59	N	ON	19.9
0.269970	31.65	---	61.12	29.47	N	ON	19.9
0.378600	---	25.53	48.31	22.78	N	ON	19.9
0.378600	29.12	---	58.31	29.19	N	ON	19.9
0.466710	---	34.39	46.57	12.18	N	ON	19.9
0.466710	40.94	---	56.57	15.63	N	ON	19.9
0.533490	---	20.78	46.00	25.22	N	ON	19.9
0.533490	28.74	---	56.00	27.26	N	ON	19.9
3.853500	---	18.73	46.00	27.27	N	ON	20.0
3.853500	26.24	---	56.00	29.76	N	ON	20.0
4.238250	---	17.84	46.00	28.16	N	ON	20.0
4.238250	23.07	---	56.00	32.93	N	ON	20.0
4.964550	---	22.11	46.00	23.89	N	ON	20.0

4.964550	30.58	---	56.00	25.42	N	ON	20.0
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Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Bill Chang, Fu Chen, Troye Hsieh	Temperature :	20.1~21.9°C
		Relative Humidity :	50.1~66.9%

Note symbol

-L	Low channel location
-R	High channel location



C1.Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 4	2400-2483.5	6	Bluetooth-LE_GFSK	00	2402	1Mbps	-	-
Mode 5	2400-2483.5	6	Bluetooth-LE_GFSK	19	2440	1Mbps	-	-
Mode 6	2400-2483.5	6	Bluetooth-LE_GFSK	39	2480	1Mbps	-	-
Mode 7	2400-2483.5	6	Bluetooth-LE_GFSK	00	2402	2Mbps	-	-
Mode 8	2400-2483.5	6	Bluetooth-LE_GFSK	19	2440	2Mbps	-	-
Mode 9	2400-2483.5	6	Bluetooth-LE_GFSK	39	2480	2Mbps	-	-
Mode 13	2400-2483.5	7	Bluetooth-LE_GFSK	00	2402	1Mbps	-	-
Mode 14	2400-2483.5	7	Bluetooth-LE_GFSK	19	2440	1Mbps	-	-
Mode 15	2400-2483.5	7	Bluetooth-LE_GFSK	39	2480	1Mbps	-	-
Mode 16	2400-2483.5	7	Bluetooth-LE_GFSK	00	2402	2Mbps	-	-
Mode 17	2400-2483.5	7	Bluetooth-LE_GFSK	19	2440	2Mbps	-	-



Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 18	2400-2483.5	7	Bluetooth-LE_GFSK	39	2480	2Mbps	-	-
Mode 58	2400-2483.5	7	Bluetooth-LE_GFSK	39	2480	2Mbps	-	LF
Mode 59	2400-2483.5	7	Bluetooth-LE_GFSK	39	2480	2Mbps	-	SHF



C2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
4	Bluetooth-LE_GFSK	00	2366.21	43.57	54.00	-10.43	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	42.36	74.00	-31.64	V	Peak	Pass	-	Harmonic
5	Bluetooth-LE_GFSK	19	2489.38	44.33	54.00	-9.67	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	44.17	74.00	-29.83	V	Peak	Pass	-	Harmonic
6	Bluetooth-LE_GFSK	39	2494.82	44.46	54.00	-9.54	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	4960.00	43.73	74.00	-30.27	V	Peak	Pass	-	Harmonic
7	Bluetooth-LE_GFSK	00	2370.35	44.42	54.00	-9.58	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	42.18	74.00	-31.82	V	Peak	Pass	-	Harmonic
8	Bluetooth-LE_GFSK	19	2495.62	45.12	54.00	-8.88	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	45.15	74.00	-28.85	V	Peak	Pass	-	Harmonic
9	Bluetooth-LE_GFSK	39	2494.22	45.04	54.00	-8.96	V	Avg.	Pass	-	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
9	Bluetooth-LE_GFSK	39	7440.00	43.74	74.00	-30.26	V	Peak	Pass	-	Harmonic
13	Bluetooth-LE_GFSK	00	2369.52	43.69	54.00	-10.31	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	41.43	74.00	-32.57	V	Peak	Pass	-	Harmonic
14	Bluetooth-LE_GFSK	19	2490.58	44.75	54.00	-9.25	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	44.18	74.00	-29.82	V	Peak	Pass	-	Harmonic
15	Bluetooth-LE_GFSK	39	2493.98	44.42	54.00	-9.58	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	7440.00	43.89	74.00	-30.11	H	Peak	Pass	-	Harmonic
16	Bluetooth-LE_GFSK	00	2352.60	44.36	54.00	-9.64	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	00	4804.00	42.13	74.00	-31.87	V	Peak	Pass	-	Harmonic
17	Bluetooth-LE_GFSK	19	2492.98	45.08	54.00	-8.92	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	19	7320.00	44.12	74.00	-29.88	H	Peak	Pass	-	Harmonic

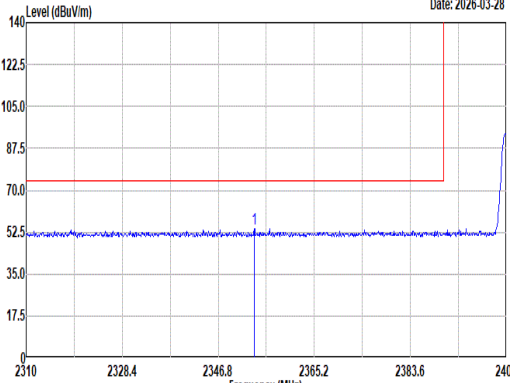
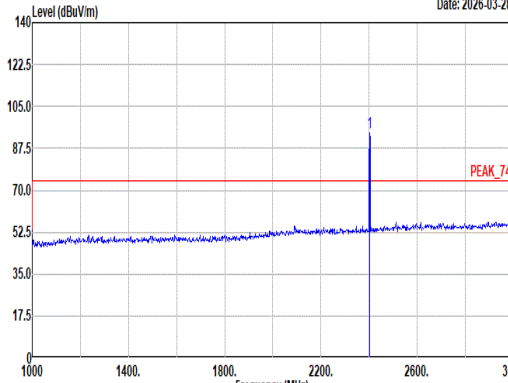
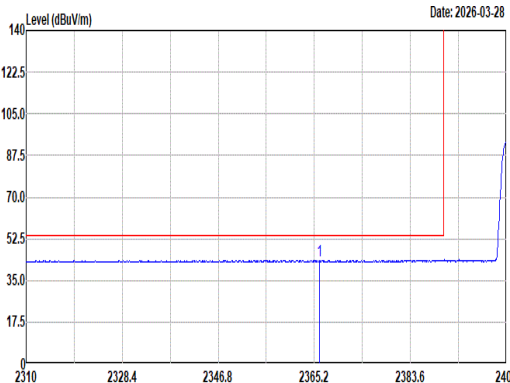
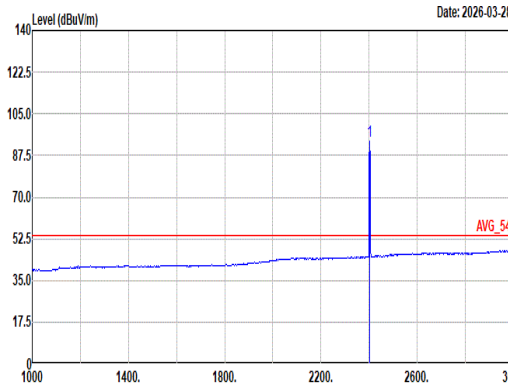


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
18	Bluetooth-LE_GFSK	39	2493.20	45.26	54.00	-8.74	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	7440.00	43.58	74.00	-30.42	V	Peak	Pass	-	Harmonic
58	LF	39	30.00	32.28	40.00	-7.72	V	Peak	Pass	-	LF
59	SHF	39	18192.45	43.09	74.00	-30.91	V	Peak	Pass	-	SHF



Mode	4																																																																																	
	Band Edge																																																																																	
	2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz																																																																																	
ANT	6																																																																																	
Pol.	Horizontal					Fundamental																																																																												
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Avg	Level (dBuV/m) Date: 2026-03-28 Site : 03CH11-HY Condition: AVG_BE_54 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SMT:Auto <table><tr><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>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 2384.06 43.48 54.00 -10.52 32.56 27.24 6.64 33.08 10.12 100 119</td><td>Average</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq Level Line Margin Level Factor Loss Factor Factor									MHz dBuV/m dBuV/m dB dB/m dB dB dB dB cm deg									1 2384.06 43.48 54.00 -10.52 32.56 27.24 6.64 33.08 10.12 100 119	Average								Level (dBuV/m) Date: 2026-03-28 Site : 03CH11-HY Condition: AVG_54 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SMT:Auto <table><tr><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>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dBuV/m dB dB/m dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 2402.00 97.81 ----- 86.77 27.32 6.66 33.06 10.12 100 119</td><td>Average</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq Level Line Margin Level Factor Loss Factor Factor									MHz dBuV/m dBuV/m dB dB/m dB dB dB dB cm deg									1 2402.00 97.81 ----- 86.77 27.32 6.66 33.06 10.12 100 119	Average							
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Mode	4																																																																																																		
	Harmonic																																																																																																		
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ANT	6																																																																																																		
Pol.	Horizontal						Vertical																																																																																												
Peak Avg	Level (dBuV/m) Date: 2026-03-31 PEAK_74 AVG_54 Frequency (MHz) Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_250915 HORIZONTAL <table><tr><th></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 colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>4804.00</td><td>41.31</td><td>74.00</td><td>-32.69</td><td>64.92</td><td>32.32</td><td>10.29</td><td>67.17</td><td>0.95</td><td>-- Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	41.31	74.00	-32.69	64.92	32.32	10.29	67.17	0.95	-- Peak	Level (dBuV/m) Date: 2026-03-31 PEAK_74 AVG_54 Frequency (MHz) Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_250915 VERTICAL <table><tr><th></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 colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>4804.00</td><td>42.36</td><td>74.00</td><td>-31.64</td><td>65.97</td><td>32.32</td><td>10.29</td><td>67.17</td><td>0.95</td><td>-- Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	42.36	74.00	-31.64	65.97	32.32	10.29	67.17	0.95	-- Peak
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Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz	
ANT	6	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-31 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2026-03-31 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 VERTICAL
	Level (dBuV/m) Date: 2026-03-31 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2026-03-31 Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 VERTICAL



Mode	5									
	Band Edge - L									
	2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz									
ANT	6									
Pol.	Horizontal					Fundamental				
Peak	Level (dBuV/m)									



Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	</	