



FCC Part 15 Subpart C

TEST REPORT

FOR

Product Name: Solid State Drive

Model : EXPERT P34F SSD

Series: EXPERT P34F Find My, EXPERT P34F Find My 512GB,
EXPERT P34F Find My 1TB, EXPERT P34F Find My 2TB

Trade Name: TEAMGROUP

Issued to

Teamgroup Inc

3F., No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City 23511, Taiwan

Issued by

Global Certification Corp.

No.146, Sec. 2, Xiangzhang Rd., Xizhi Dist., New Taipei City 221,

Taiwan (R.O.C.)

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
1.	571701	FR2-571701	Jul. 29, 2025	Original Report	Judy



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PHOTOS OF TEST CONFIGURATION

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PHOTOS OF EUT

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TEST DATA



1. GENERAL INFORMATION

Applicant : Teamgroup Inc

Address : 3F., No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City 23511, Taiwan

Manufacturer : DongGuan Kensway Photoelectric Technology co. , Ltd.

Address : Room 418, Building 6, No. 36 Fuxing Road, Chang'an Town, Dongguan City, Guangdong Province, China

EUT : Solid State Drive

Model No. : EXPERT P34F SSD

Series No. : EXPERT P34F Find My, EXPERT P34F Find My 512GB, EXPERT P34F Find My 1TB, EXPERT P34F Find My 2TB

Trade Name : TEAMGROUP

Model Differences : The major electrical and mechanical constructions of series models are identical to the basic model, except different capacity. The model, EXPERT P34F SSD is the testing sample, and the final test data are shown on this test report.

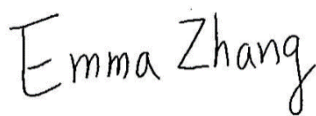
Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC Part 15 Subpart C 15.247

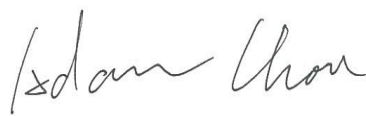
Tested By:

Approved by:

Jul. 29, 2025
Date


Emma Zhang, Engineer

Jul. 29, 2025
Date


Adam Chou, Manager

Designation Number: TW1640



1.1 DESCRIPTION OF THE TESTED SAMPLES

EUT Name : Solid State Drive
Model Number : EXPERT P34F SSD
FCC ID : 2BSCSEXPERTP34F
Power From ☐Inside☒Outside
☒Support Unit PC ☐Adaptor ☐Battery ☐Power Supply ☐DC Power Source
Power Rating(EUT) : 5 Vdc
Power Rating(internal RF module) : 3 Vdc(Battery)
Operate Frequency : Refer to the channel list as described below
Basic Spec : ☐Bluetooth ☒Bluetooth LE ☐802.11b ☐802.11g ☐802.11n HT20/HT40
Operate Frequency : 2402 MHz ~ 2480 MHz
Number of Channels : 40
Step of Channel : ☐N/A ☒ 2 MHz
Modulation Type : ☒GFSK ☐FHSS ☐DSSS ☐CCK ☐OFDM
Antenna Quantity : 1Tx/1Rx
Antenna Type : PCB
Antenna gain : -0.08 dBi
EUT Received Date : Jul. 17, 2025
EUT Test Completed Date : Jul. 28, 2025

CHANNEL LIST

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



1.3 LIST OF MEASUREMENTS AND EXAMINATIONS

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Spurious Emission Radiated Band Edge Measurement	Pass
15.247(a)(2)	6dB Bandwidth Measurement	Pass
15.247(b)(3)	Peak Output Power Measurement	Pass
15.247(d)	Conducted Spurious Emission	Pass
15.247(e)	Power Spectral Density	Pass



2. TEST METHODOLOGY

All testing as described bellowed were performed in accordance with ANSI C63.10:2013 and FCC CFR 47 Part 15 Subpart C.

2.1 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.10:2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 1.5 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.



2.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



2.3 DESCRIPTION OF TEST MODES

The EUT was tested under following modes:

Modes:

1. TX Mode BLE 1M Low/Mid/High CH
2. TX Mode BLE 2M Low/Mid/High CH
3. RX Mode

Channels:

1. 2402MHz (Low CH)
2. 2440MHz (Mid CH)
3. 2480MHz (High CH)

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	LeKit_v3.0.4
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2.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

Setup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

Peripherals Devices:

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	NB	TPN-1130	5CF1383Z DT	R3A304	HP	shielded 0.5m	Unshielded 1.8m
2.	Fixture	--	--	--	--	--	--
3.	Dupont line	--	--	--	--	Unshielded 0.1m	--
4.	USB Cable	OWC	GCC001	--	--	shielded 1.0m	
5.	Phone	11 Pro	C39ZD097 N6Y8	--	Apple	--	--



EUT ACCESSORIES/COMPONENTS							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	PCB 1	N/A	N/A	N/A	N/A	N/A	N/A
2.	PCB 2	N/A	N/A	N/A	N/A	N/A	N/A
3.	Battery	CR2032	N/A	N/A	Changzhou Yufeng Battery Co., Ltd	N/A	N/A

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.



3. TEST AND MEASUREMENT EQUIPMENT

3.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

3.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

TABLE 1 LIST OF TEST AND MEASUREMENT EQUIPMENT

Conducted Emission Measurement (Test Site ID: GCC_CE_01)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Due Date	Note
LISN #1	SCHWARZBECK	NNLK8121	672	Feb.13, 2026	1 year (For EUT)
LISN #2	SCHAFFNER	NNB41	03/10026	Feb.13, 2026	1 year (For EUT)
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100438	Feb. 11, 2026	1 year
1W 20db Attenuator & Pulse Limiter with Cable	AFJ/YONGWEI /DAIWA	PAT20M/50-5(2m) /CS-201	PA2005130030/-- /1565157	Feb. 12, 2026	1 year
Digital thermometer and hygrometer	DRTEC	Q-226 WT	DEAC3E-A80408 213-000	Nov. 05, 2025	1 year
AC POWER SOURCE	APC	AFC-3KB	870311	--	--
Test Software	AUDIX	E3	6.2008-10-2C	--	--



EMC Chamber Radiated Emission Measurement (Test Site ID: GCC_RE_01)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Due Date	Note
Spectrum Analyzer	R&S	FSV40	101088	May. 11, 2026	
Magnetic Loop Antenna	TeseQ	HLA6120	26349	Oct. 16, 2026	
Bilog Antenna	SUNOL	JB1	A052204	Sep. 19 2025	
Pre-Amplifier	WIRELESS	FPA-6592G	060028	Sep. 20, 2025	
RF Cable	HUBER + UHNER	RG213/U	Cable-004	Dec. 15, 2025	
Double Ridged Guide HORN ANTENNA	EST.LINDGREN	3117	00119028	May. 19, 2026	
SMA_Cable	HUBER SUHNER	EMC104-SM-S M-1000	170238	Apr. 01, 2026	
RF Cable	Qualwave	QA360-40-KRK R-8	24210061	May. 20, 2026	
Microwave Preamplifier	EMCINSTRUMENT	EMC051845	980059	May 02, 2026	
TEST SOFTWARE	AUDIX	E3	6.101222	--	
Digital thermometer and hygrometer	COMET	HTC-2	DEAC3E-A900 9QV8G-000	Feb. 10, 2026	
AC POWER SOURCE	Turn Power	APW-120N	S007	N/A	
Conducted Measurement (Test Site ID: GCC_RE_01)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Due Date	Note
Spectrum Analyzer	R&S	FSV40	101088	May. 11, 2026	
20db Attenuator	Marvelous	6620_SMA-50-1	--	Apr. 22, 2026	
DC Block	Marvelous	MVE6411	--	--	
Digital thermometer and hygrometer	COMET	HTC-2	DEAC3E-A900 9QV8G-000	Feb. 10, 2026	

※ Calibration interval of instruments listed above is one year



4. ANTENNA REQUIREMENTS

4.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247(b), if transmitting antennas of direction gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

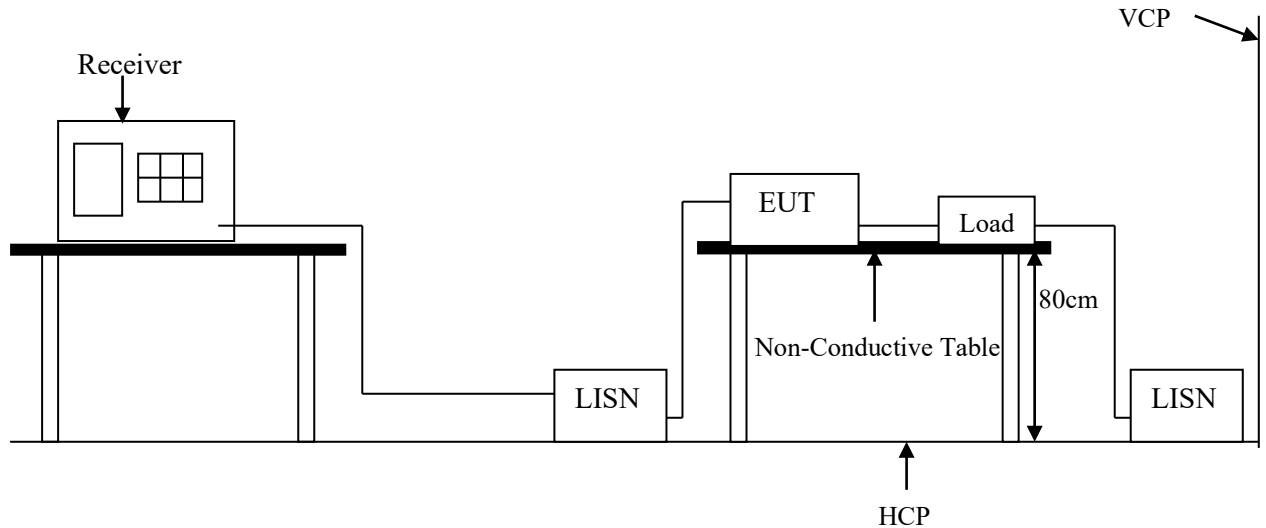
4.2 ANTENNA CONSTRUCTION AND DIRECTIONAL GAIN

Antenna type: PCB

Antenna Gain: -0.08 dBi

5. CONDUCTED EMISSIONS

5.1 TEST SETUP



5.2 LIMIT

Frequency range (MHz)	CLASS A		CLASS B	
	QP dB(uV)	Average dB(uV)	QP dB(uV)	Average dB(uV)
0.15-0.5	79 dBuV	66 dBuV	66 - 56 dBuV	56 - 46 dBuV
0.5-5.0	73 dBuV	60 dBuV	56 dBuV	46 dBuV
5.0-30.0	73 dBuV	60 dBuV	60 dBuV	50 dBuV

Remark: In the above table, the tighter limit applies at the band edges.

5.3 TEST PROCEDURE

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50 μ H coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to EN 55022 regulations: The measurement procedure on conducted emission interference.

The resolution bandwidth of the field strength meter is set at 9 KHz.



5.4 TEST RESULT

PASS

5.5 TEST DATA:

Site : GCC_CE_01

RBW : 9 KHz VBW : 30 KHz SWT : Auto

EUT : Refer page1 of the report

Mode : TX mode

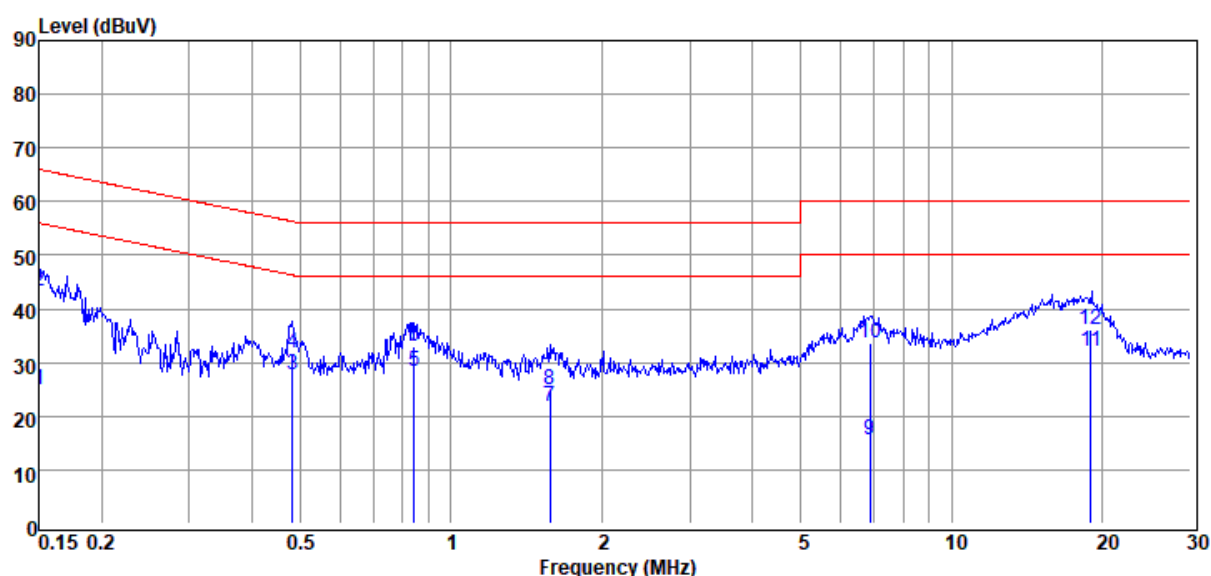
Voltage : From NB

Phase : LINE

Model : Refer page1 of the report

Temp/Humidity : 27 °C / 55 %

Memo : 571701



	Freq MHz	Meter Level dBuV	System Factor dB	Cable Loss dB	LISN Factor dB	Real Level dBuV	Limit Line dBuV	Margin dB	Remark
1	0.15	4.65	20.37	20.21	0.16	25.02	55.99	-30.97	Average
2	0.15	22.95	20.37	20.21	0.16	43.32	65.99	-22.67	QP
3	0.48	7.23	20.37	20.21	0.16	27.60	46.31	-18.71	Average
4	0.48	11.24	20.37	20.21	0.16	31.61	56.31	-24.70	QP
5	0.84	7.93	20.39	20.22	0.17	28.32	46.00	-17.68	Average
6	0.84	12.73	20.39	20.22	0.17	33.12	56.00	-22.88	QP
7	1.58	1.42	20.49	20.29	0.20	21.91	46.00	-24.09	Average
8	1.58	4.40	20.49	20.29	0.20	24.89	56.00	-31.11	QP
9	6.88	-5.38	20.86	20.29	0.57	15.48	50.00	-34.52	Average
10	6.88	12.63	20.86	20.29	0.57	33.49	60.00	-26.51	QP
11	19.01	9.80	22.29	20.49	1.80	32.09	50.00	-17.91	Average
12	19.01	13.93	22.29	20.49	1.80	36.22	60.00	-23.78	QP

System Factor = Cable Loss + LISN Factor

Cable Loss = Pulse limiter + Cable Insertion Loss

Real Level = Meter Level + System Factor

Margin = Real Level - Limit Line



Site : GCC_CE_01

RBW : 9 KHz VBW : 30 KHz SWT : Auto

EUT : Refer page1 of the report

Mode : TX mode

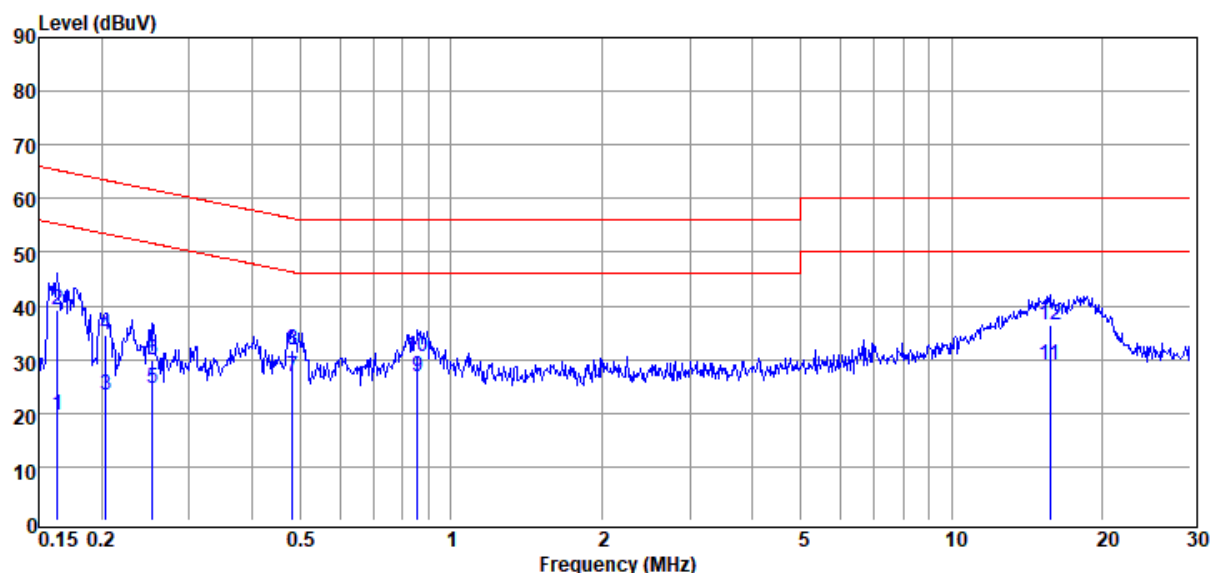
Voltage : From NB

Phase : NEUTRAL

Model : Refer page1 of the report

Temp/Humidity : 27 °C / 55 %

Memo : 571701



Freq		Meter Level		System	Cable	LISN	Real	Limit	Margin	Remark
MHz		dBuV		Factor	Loss	Factor	Level	Line		
		dB								
1	0.16	-0.72	20.31	20.21	0.10	19.59	55.28	-35.69	Average	
2	0.16	18.99	20.31	20.21	0.10	39.30	65.28	-25.98	QP	
3	0.20	3.19	20.30	20.21	0.09	23.49	53.44	-29.95	Average	
4	0.20	14.39	20.30	20.21	0.09	34.69	63.44	-28.75	QP	
5	0.25	4.38	20.30	20.21	0.09	24.68	51.64	-26.96	Average	
6	0.25	9.55	20.30	20.21	0.09	29.85	61.64	-31.79	QP	
7	0.48	6.56	20.31	20.21	0.10	26.87	46.31	-19.44	Average	
8	0.48	11.59	20.31	20.21	0.10	31.90	56.31	-24.41	QP	
9	0.86	6.32	20.33	20.22	0.11	26.65	46.00	-19.35	Average	
10	0.86	10.24	20.33	20.22	0.11	30.57	56.00	-25.43	QP	
11	15.74	6.93	22.10	20.40	1.70	29.03	50.00	-20.97	Average	
12	15.74	14.42	22.10	20.40	1.70	36.52	60.00	-23.48	QP	

System Factor = Cable Loss + LISN Factor

Cable Loss = Pulse limiter + Cable Insertion Loss

Real Level = Meter Level + System Factor

Margin = Real Level - Limit Line



6. PEAK OUTPUT POWER

6.1 TEST SETUP



6.2 LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to § 15.247(b)(3) , for systems using digital modulation in the bands of 902 – 928 MHz , 2400 – 2483.5 MHz: 1 Watt.
2. According to § 15.247(b)(4) , the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section , if transmitting antennas of directional gain greater than 6 dBi are used , the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) , (b)(2) , and (b)(3) of this section , as appropriate , by the amount in dB that directional gain of the antenna exceeds 6 dBi.

6.3 TEST PROCEDURE

1. Peak power is measured using the Spectrum Analyzer.
2. Power is integrated over a bandwidth greater than or equal to the 99% bandwidth.

6.4 TEST RESULT

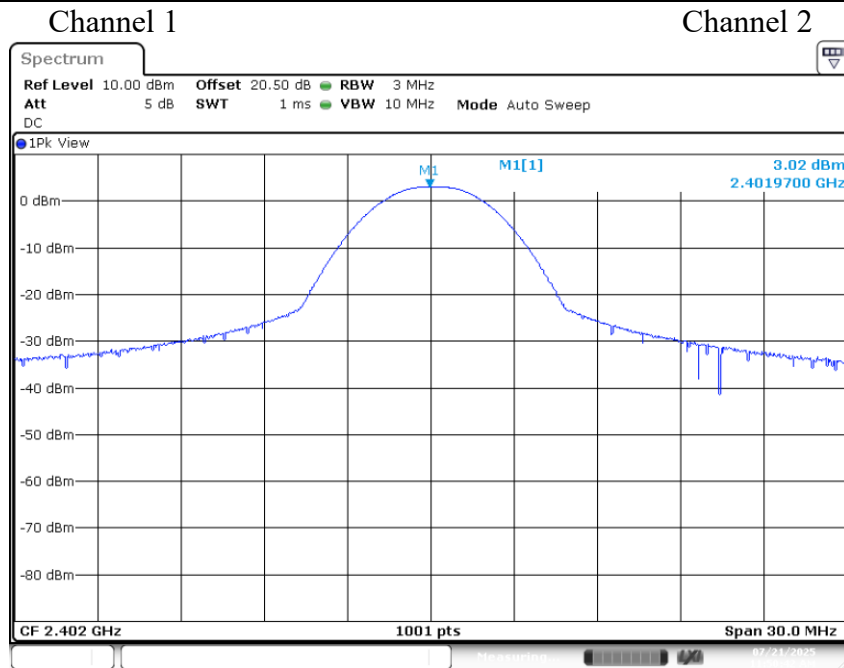
PASS



6.5 TEST DATA:

BLE 1M :

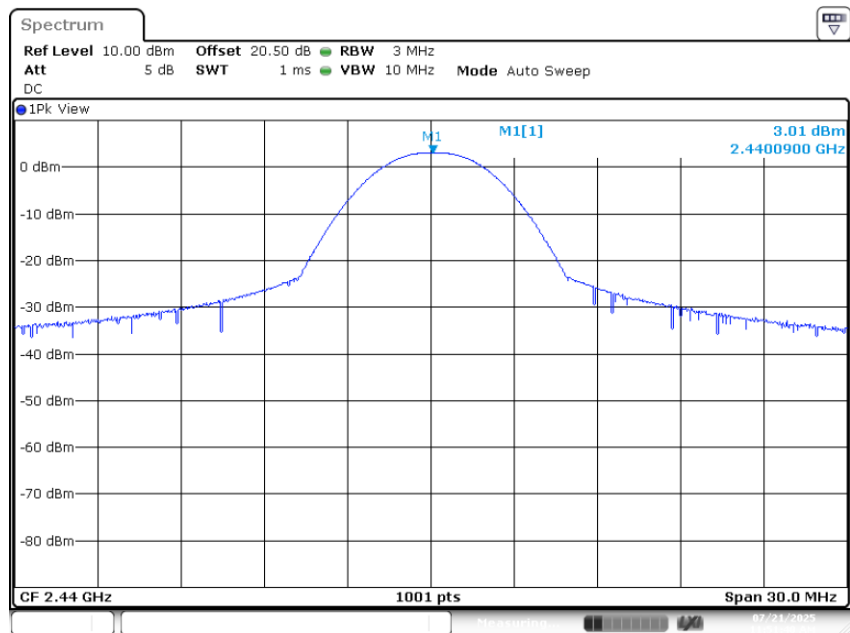
Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)
1	2402 MHz	3.02	0.00200447	30.00	1.00
2	2440 MHz	3.01	0.00199986	30.00	1.00
3	2480 MHz	3.02	0.00200447	30.00	1.00



Date: 21.JUL.2025 11:50:42

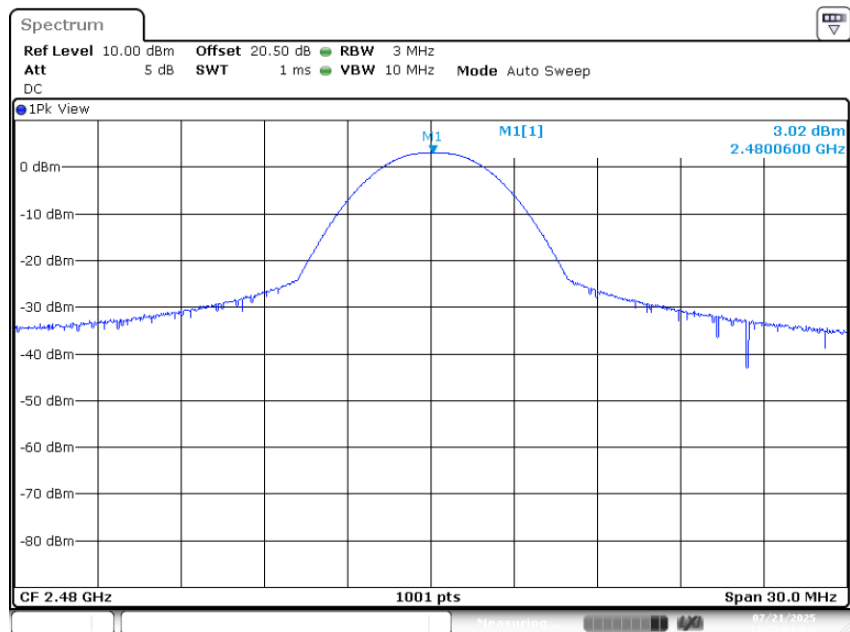


Channel 2



Date: 21 JUL 2025 11:51:41

Channel 3

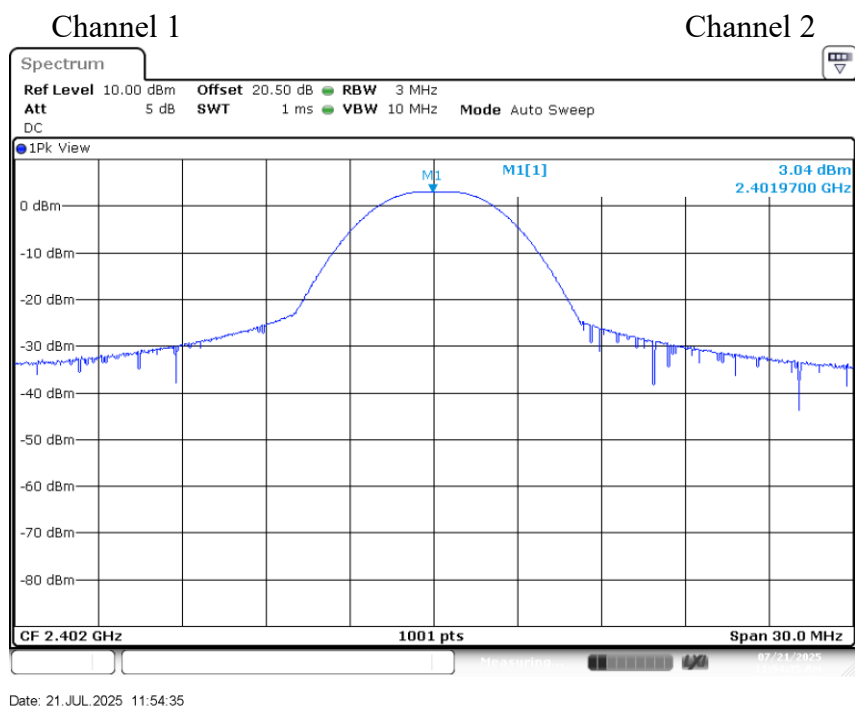


Date: 21 JUL 2025 11:53:01



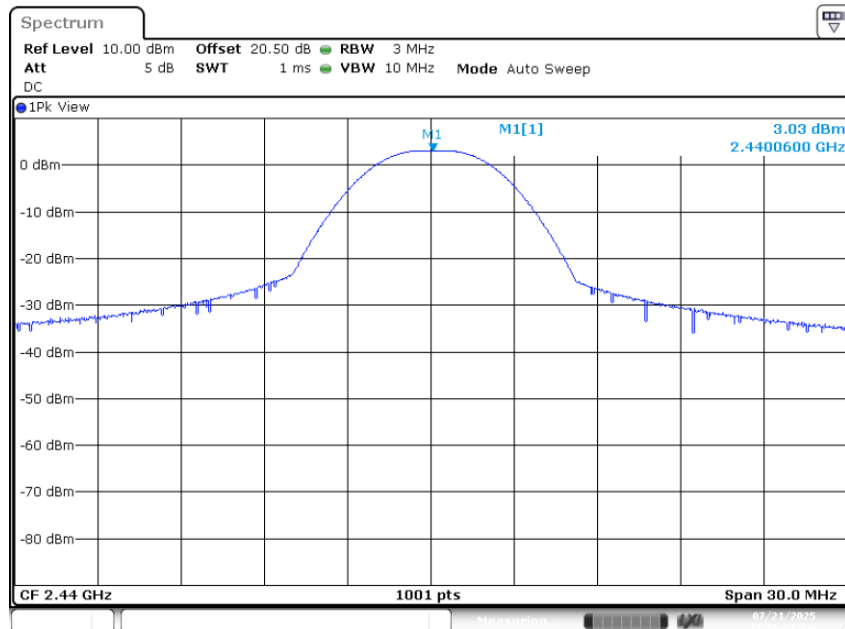
BLE 2M :

Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit(dBm)	Max. Limit(W)
1	2402 MHz	3.04	0.00201372	30.00	1.00
2	2440 MHz	3.03	0.00200909	30.00	1.00
3	2480 MHz	3.02	0.00200447	30.00	1.00



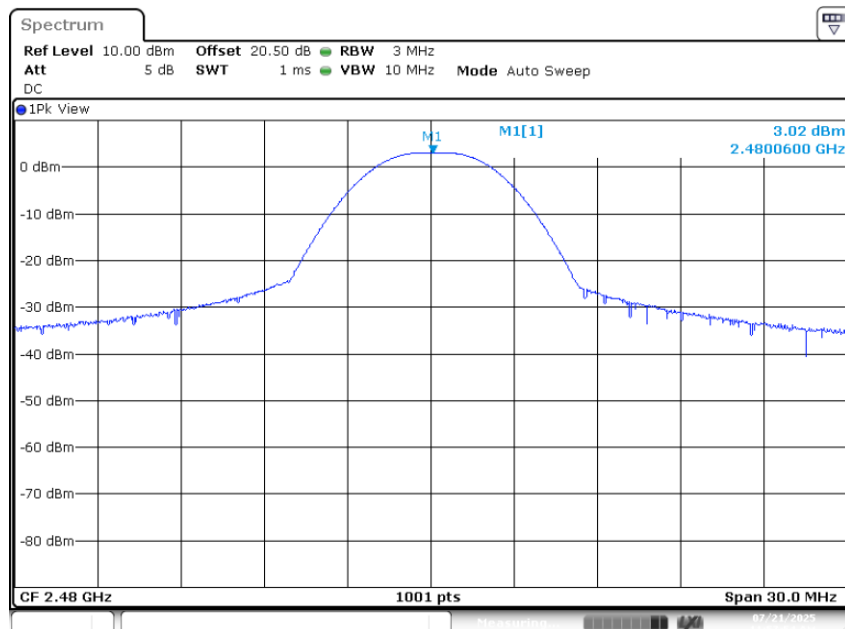


Channel 2



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Channel 3

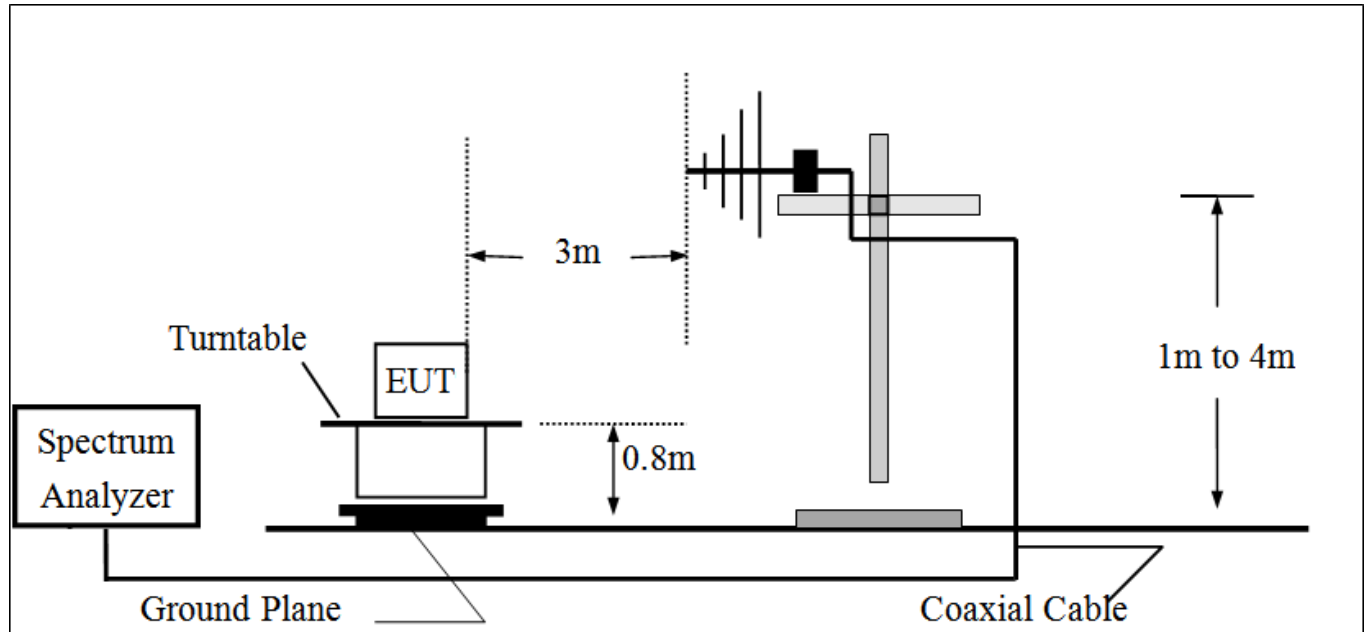


Date: 21 JUL 2025 11:57:55

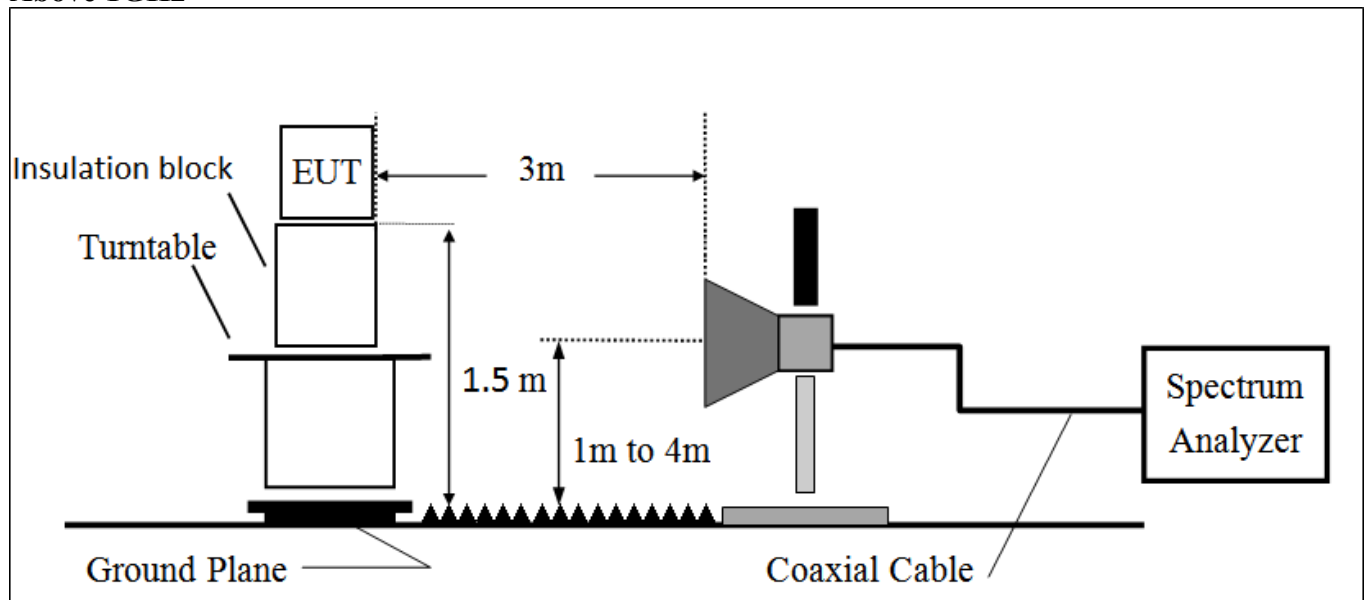
7. RADIATED BAND EDGE

7.1 TEST SETUP

30MHz to 1GHz



Above 1GHz





7.2 LIMIT

Restricted Bands:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Operation within the bands:

902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

Frequency (Hz)	Field Strength ($\mu\text{V}/\text{m}$ at 3-meter)	Field Strength (dB $\mu\text{V}/\text{m}$ at 3-meter)
1.705-30	30 (at 30-meter)	69.54
30-88	100	40
88-216	150	43
216-960	200	46
Above 960	500	54

7.3 TEST RESULT

PASS



7.4 TEST DATA:

Please refer to appendix 3.

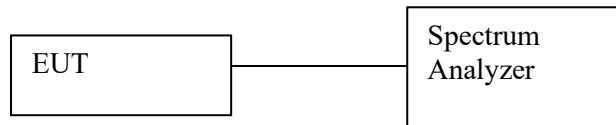
Note:

1. Emission level = Reading level + Correction factor
2. Correction factor : Antenna factor, Cable loss, PreAmp, etc.
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW.
6. Peak detector measurement data will represent the worst case results.



8. 6DB BANDWIDTH

8.1 TEST SETUP



8.2 LIMIT

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.3 TEST PROCEDURE

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300KHz.
- c. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

8.4 TEST RESULT

PASS

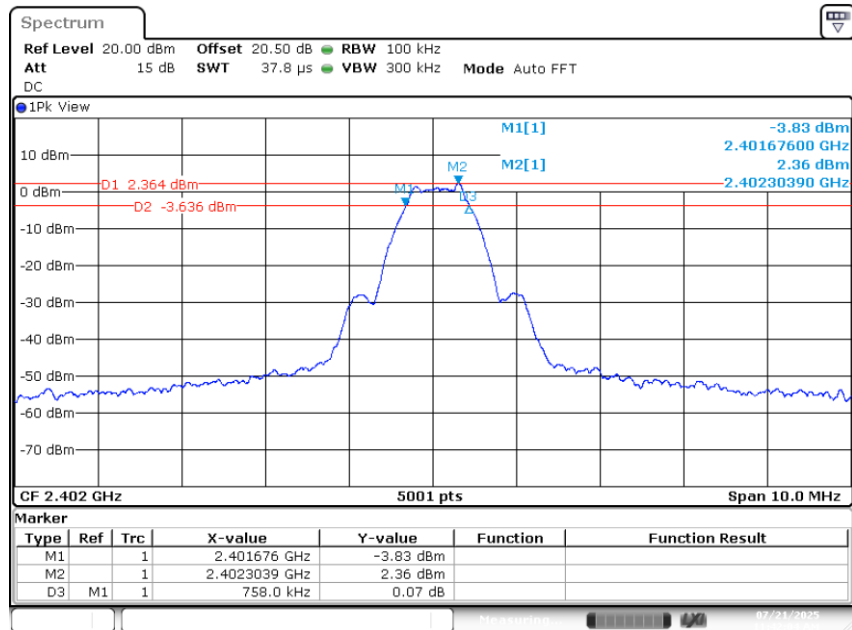


8.5 TEST DATA:

BLE 1M :

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6db Bandwidth limit(KHz)
1	2402 MHz	0.758	≥ 500
2	2440 MHz	0.700	≥ 500
3	2480 MHz	0.720	≥ 500

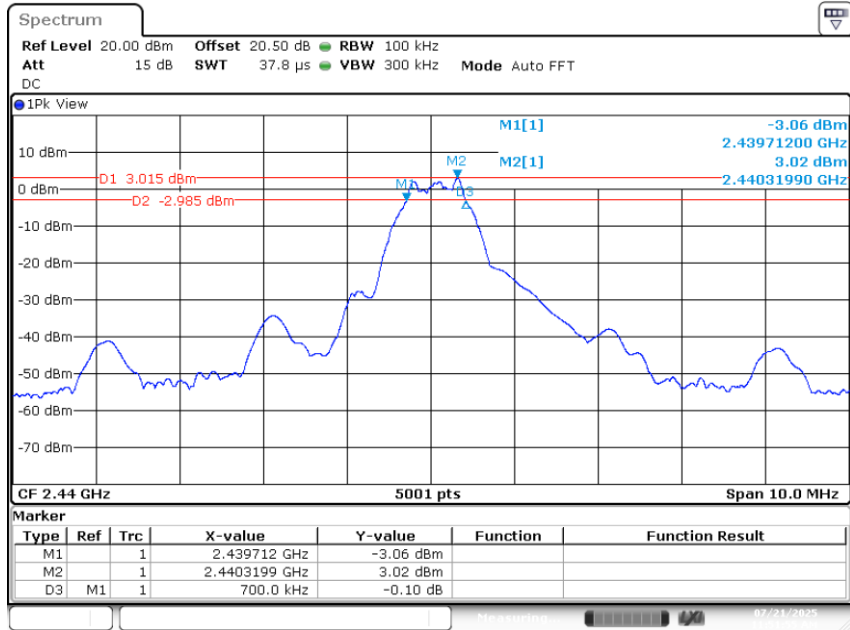
2402 MHz



Date: 21.JUL.2025 11:42:05

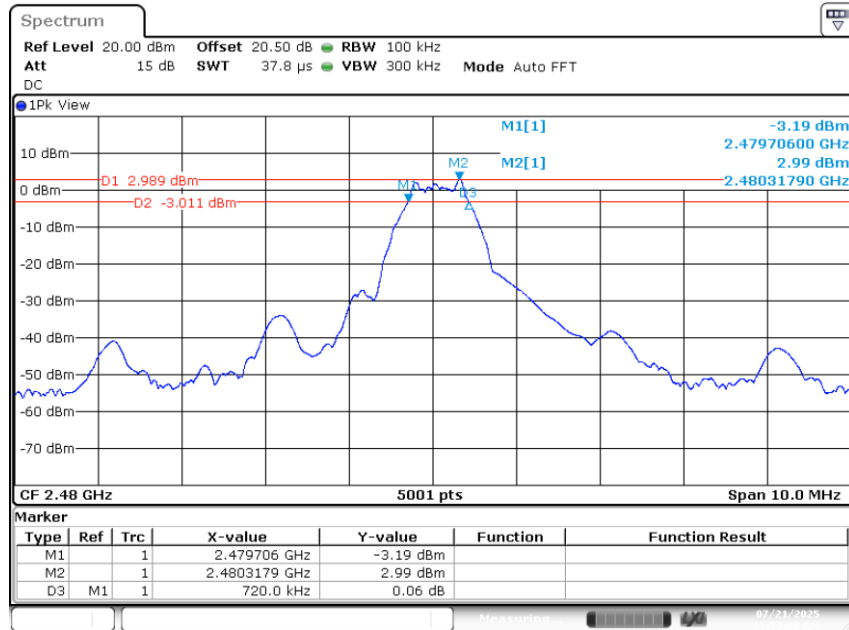


2440 MHz



Date: 21.JUL.2025 11:51:55

2480 MHz



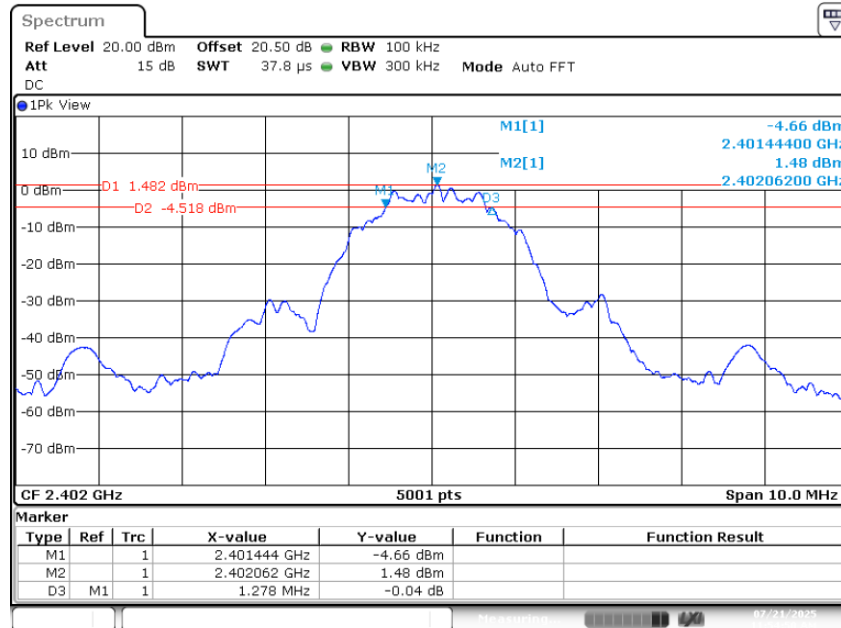
Date: 21.JUL.2025 11:53:19



BLE 2M :

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6db Bandwidth limit(KHz)
1	2402 MHz	1.278	≥ 500
2	2440 MHz	1.192	≥ 500
3	2480 MHz	1.304	≥ 500

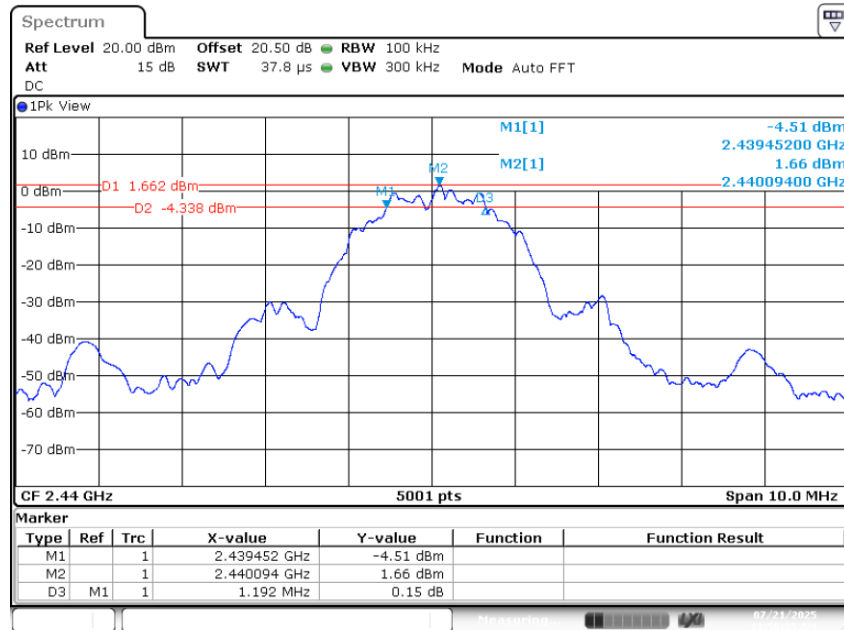
2402 MHz



Date: 21.JUL.2025 11:54:50

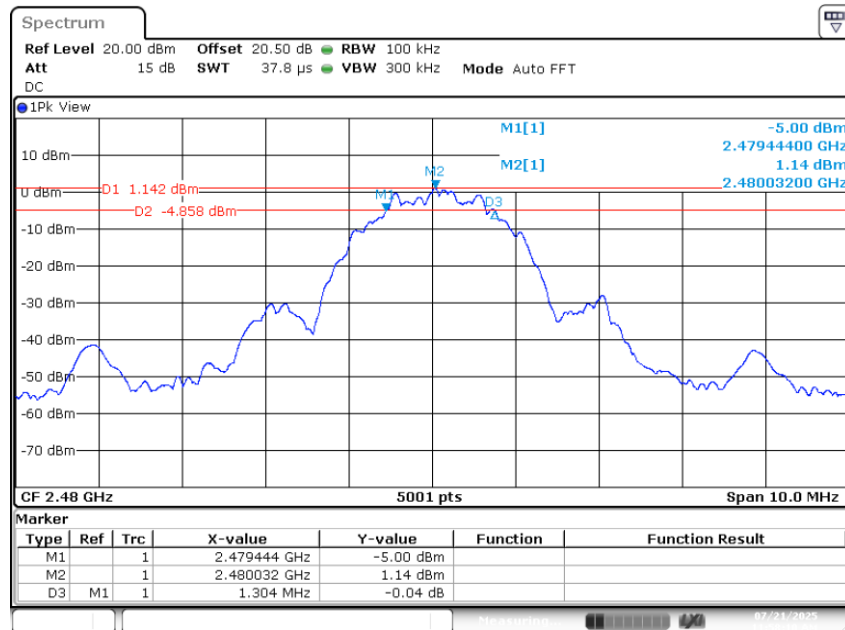


2440 MHz



Date: 21 JUL 2025 11:56:25

2480 MHz

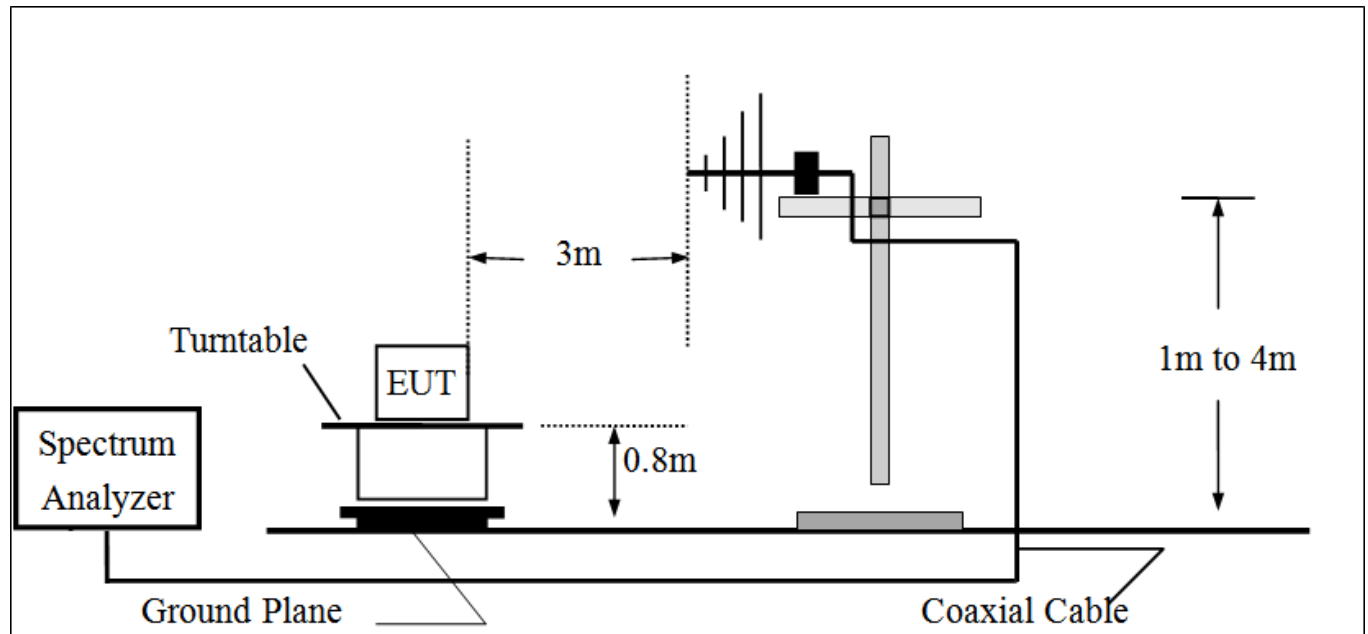


Date: 21 JUL 2025 11:58:10

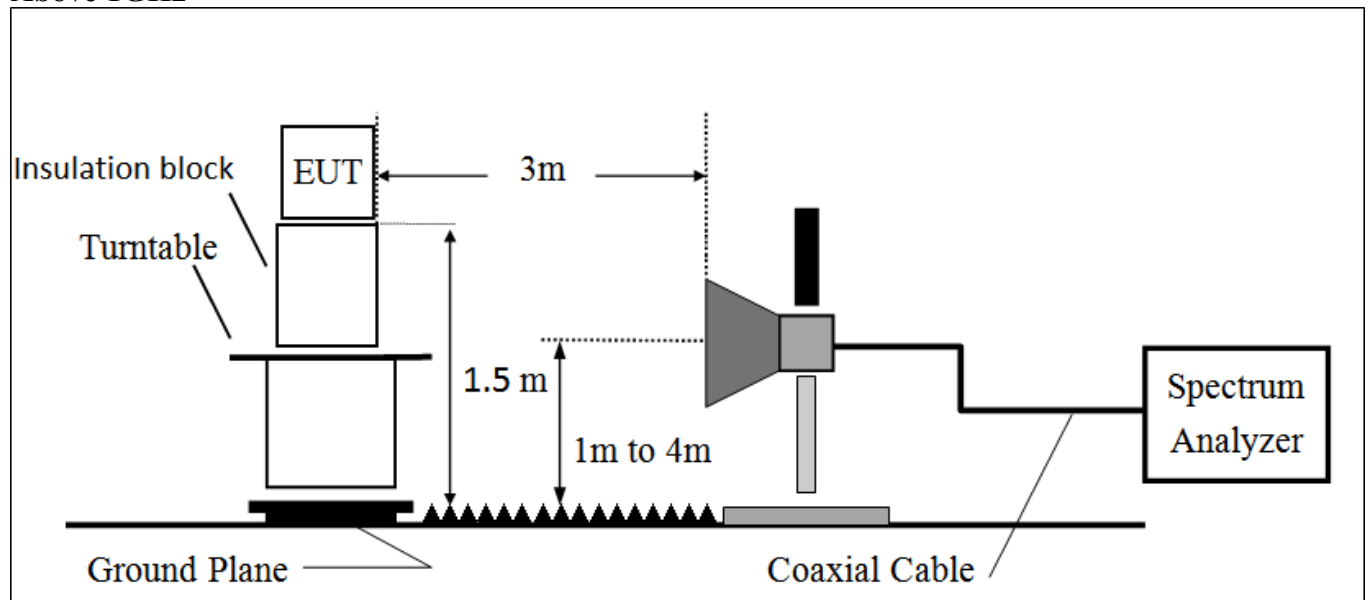
9. RADIATED SPURIOUS EMISSIONS

9.1 TEST SETUP

30MHz to 1GHz



Above 1GHz





9.2 LIMIT

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500*	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$ at 3-meter)
0.009-0.490	2400/F(kHz) at 300-meter	--
0.490-1.705	24000/F(kHz) at 30-meter	--
1.705-30	30 at 30-meter	69.54
30-88	100	40
88-216	150	43
216-960	200	46
Above 960	500	54



9.3 TEST PROCEDURE

1. The EUT was placed on a turntable, which was 0.8m above ground plane.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was maximized by changing the polarization of receiving antenna, both horizontal and vertical.
6. Repeated above procedures until the measurements for all frequencies are completed.

9.4 TEST RESULT

PASS

9.5 TEST DATA:

All frequencies not described in this test report and within the range of the general radiated emission limits are not detectable significantly. The test data is representing worst emissions found.

Please refer to appendix 3.

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor : Antenna factor, Cable loss, PreAmp, etc.
3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
4. Measurements from 9 kHz to 150 kHz, Peak detector setting: 100 Hz RBW
5. Measurements from 150 kHz to 30MHz, Peak detector setting: 10 kHz RBW
6. Measurements from 30 MHz to 1000 MHz, Peak detector setting: 100 kHz RBW
7. Measurements from 9 kHz to 150 kHz, CISPR Quasi-Peak detector: 200 Hz RBW
8. Measurements from 150 kHz to 30MHz, CISPR Quasi-Peak detector: 9 kHz RBW
9. Measurements from 30 MHz to 1000 MHz, CISPR Quasi-Peak detector: 120 kHz RBW
10. Peak detector measurement data will represent the worst case results.



10. CONDUCTED SPURIOUS EMISSIONS

10.1 TEST SETUP



10.2 LIMIT

According to § 15.247(d) , in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intention radiator is operating , the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power , based on either an RF conducted or a radiated measurement , provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands , as defined in § 15.205(a) , must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

10.3 TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

10.4 TEST RESULTS

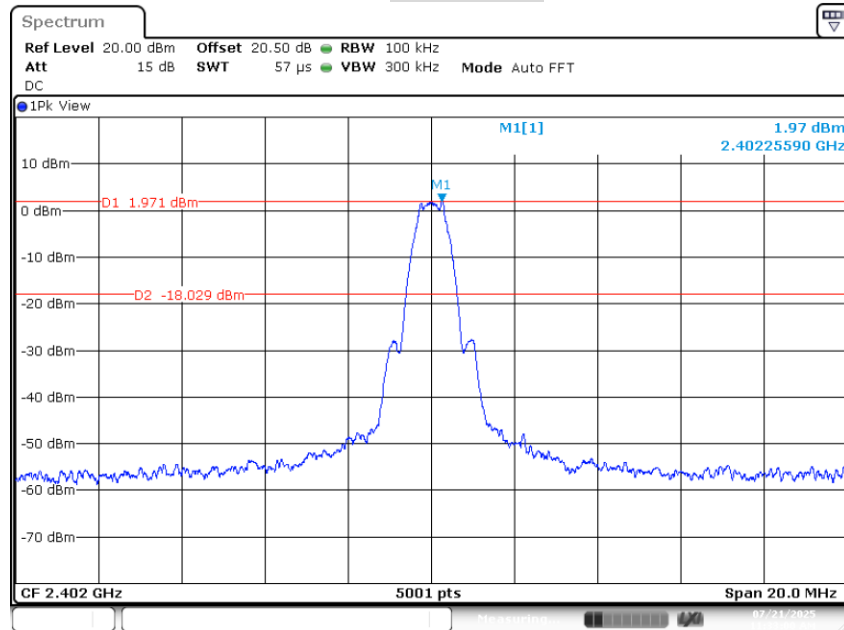
PASS

10.5 TEST DATA:

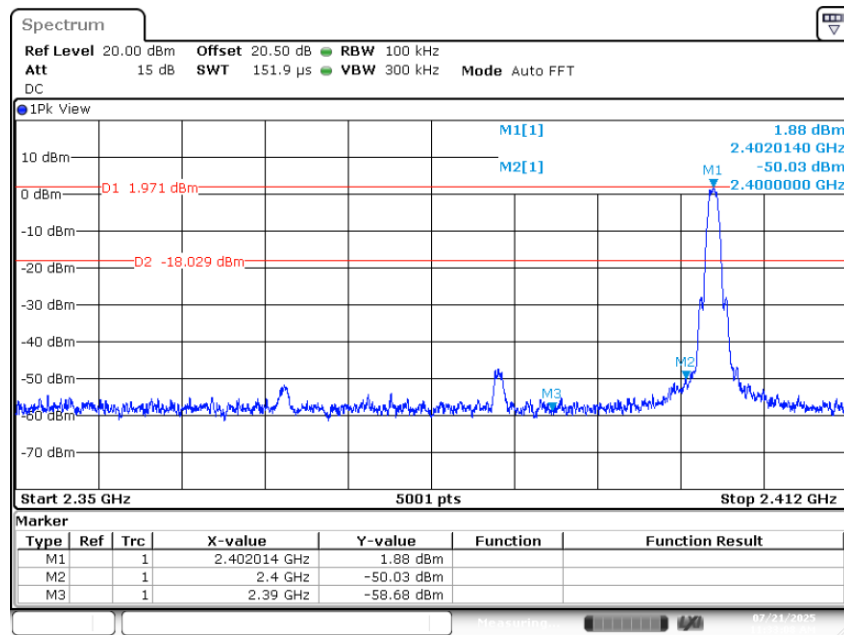


BLE 1M :

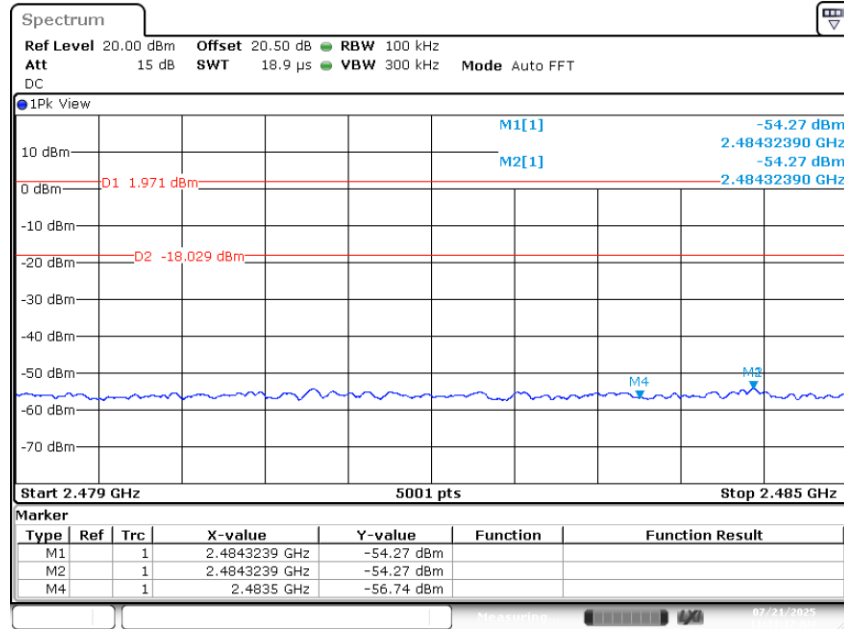
2402 MHz



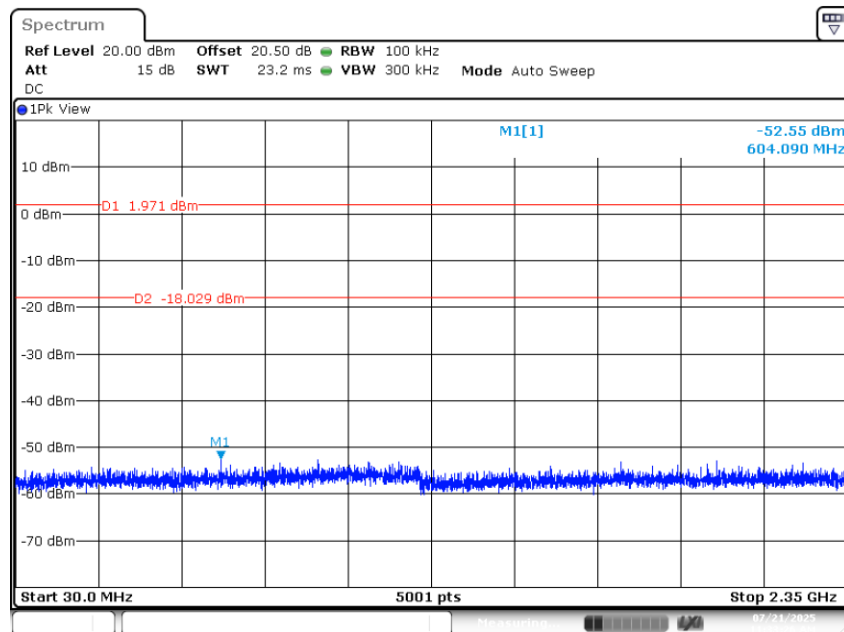
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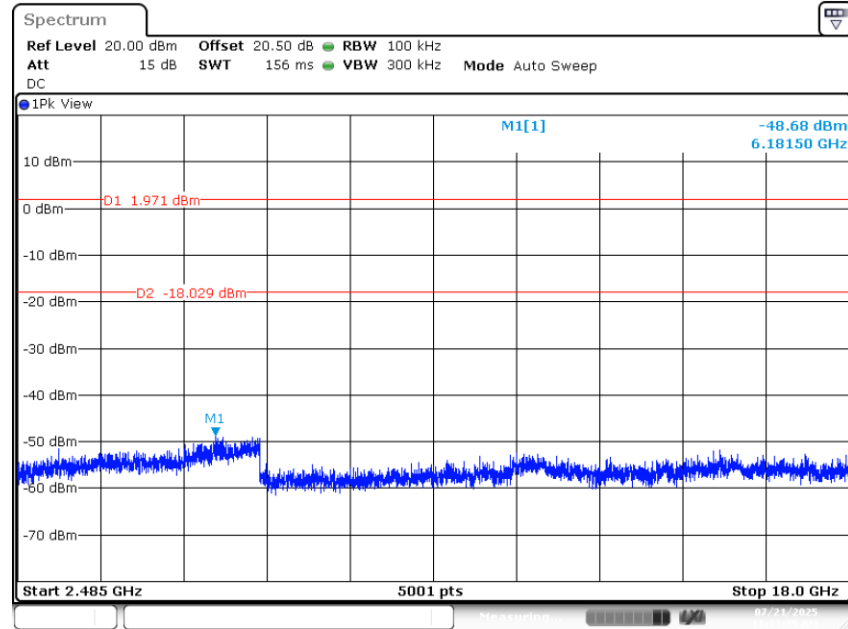
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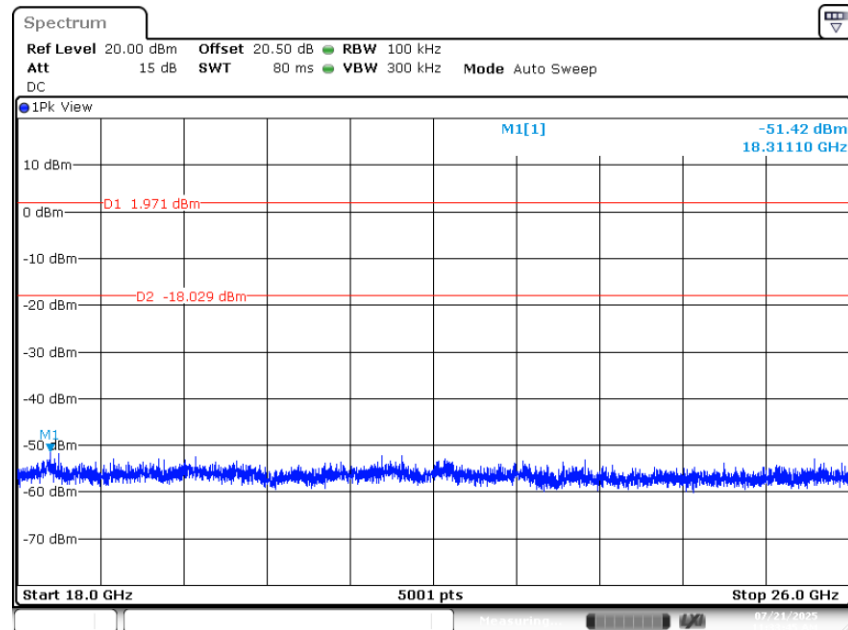
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Date: 21.JUL 2025 11:33:26



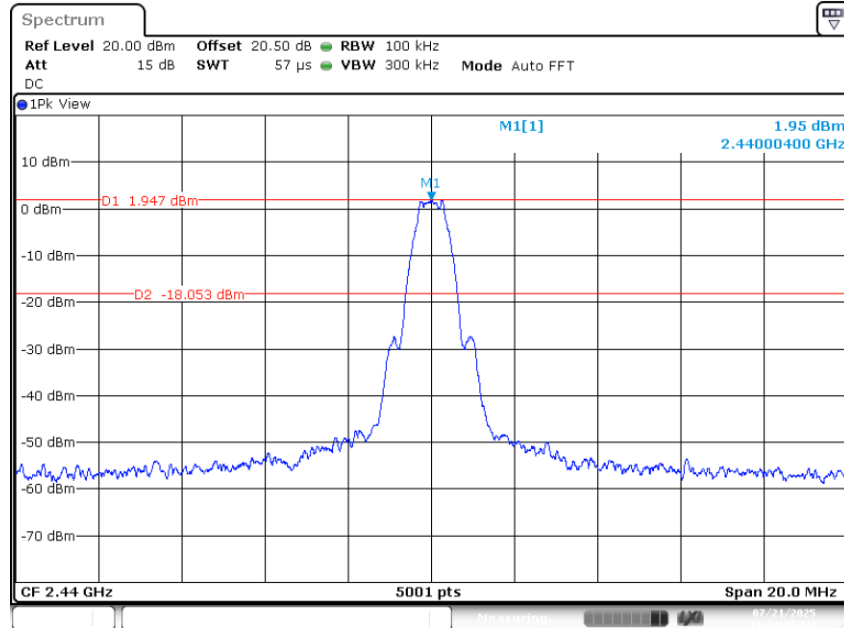
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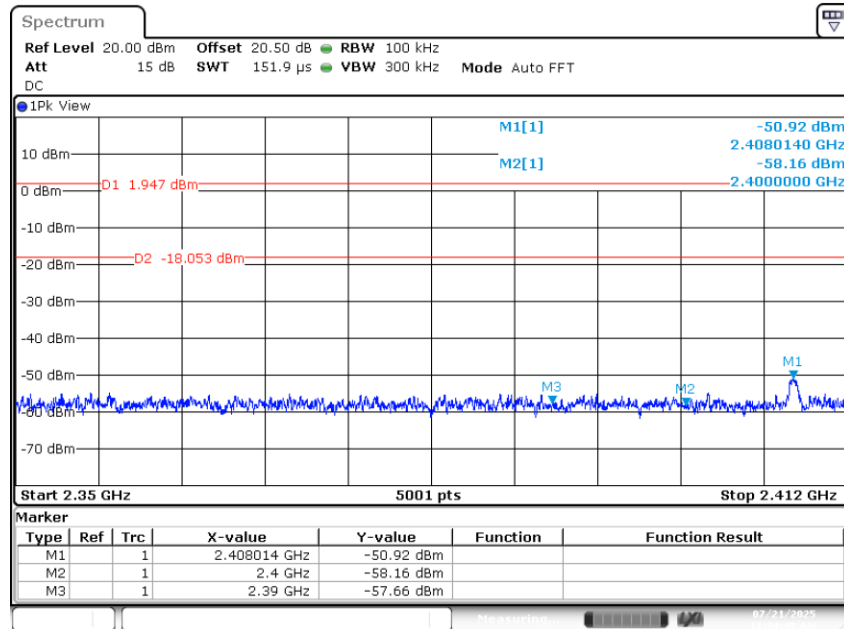
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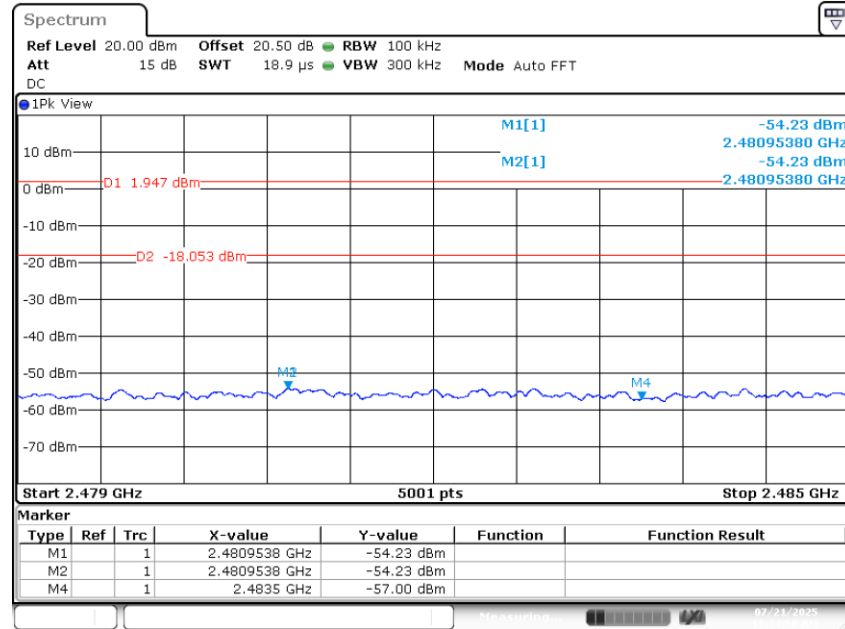
2440 MHz



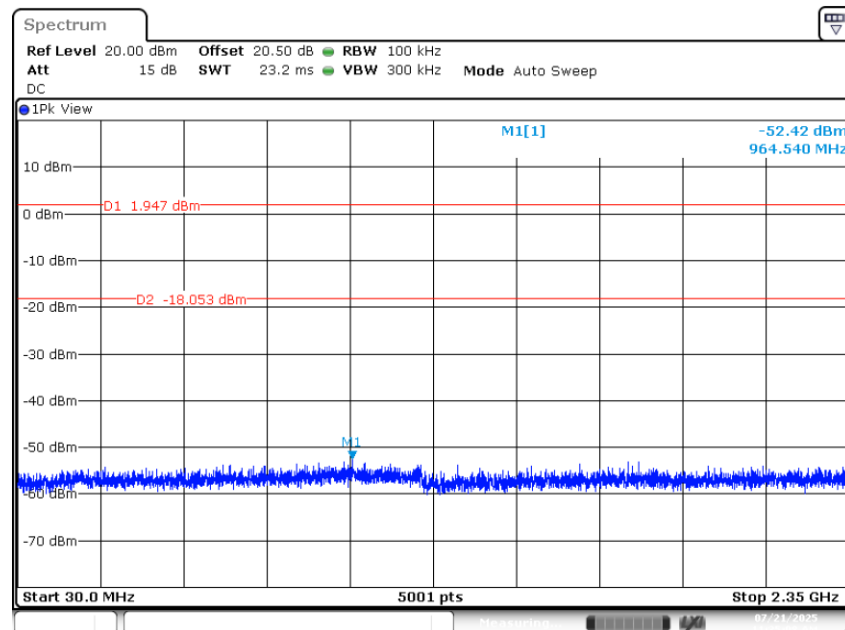
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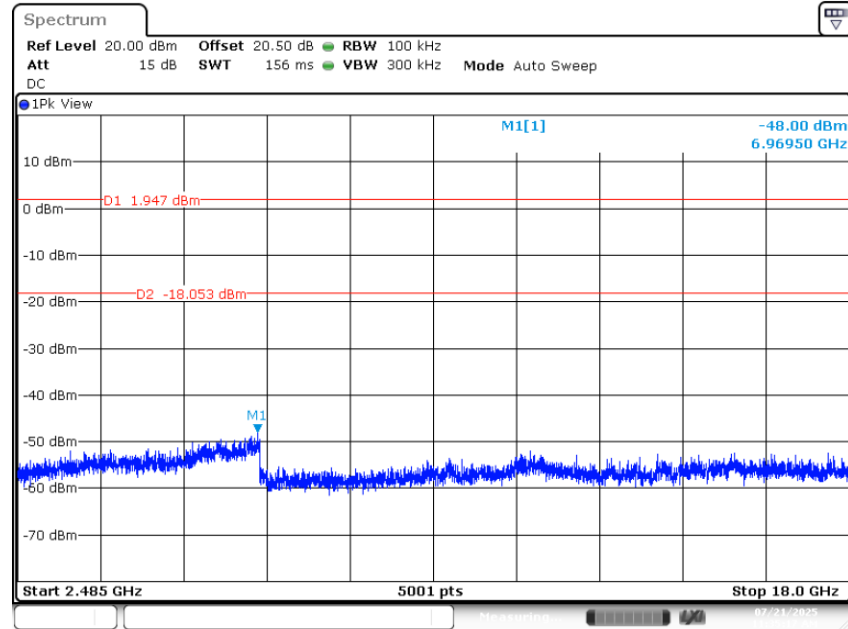
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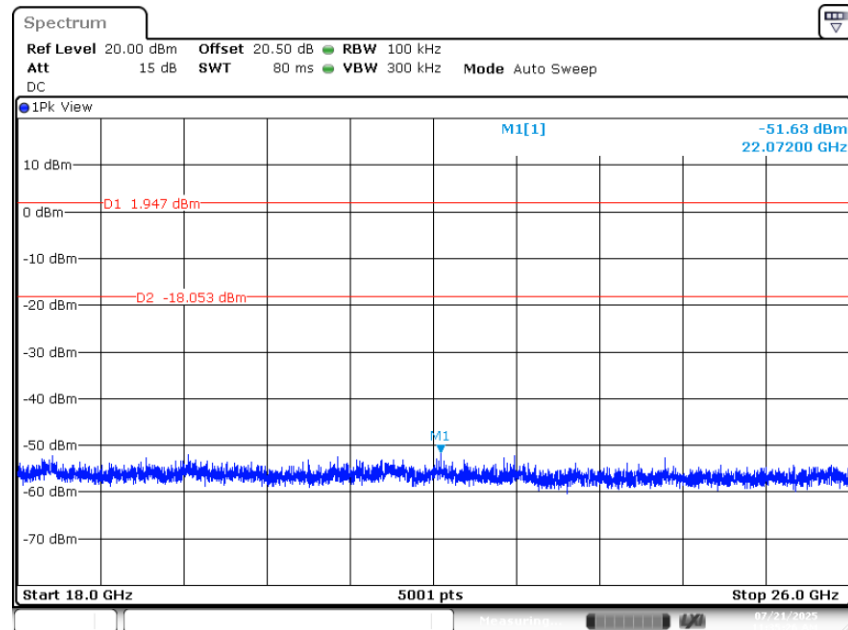
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Date: 21.JUL 2025 11:35:08



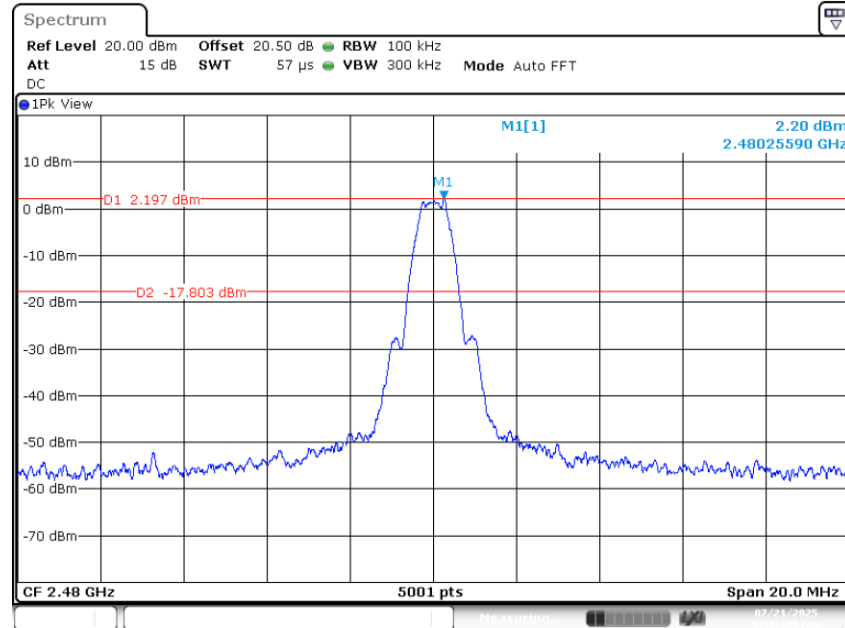
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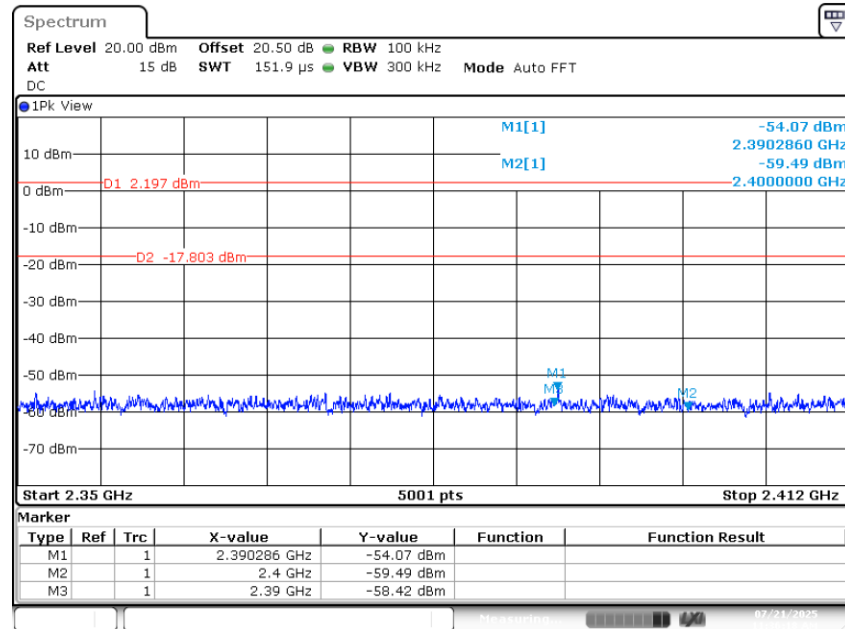
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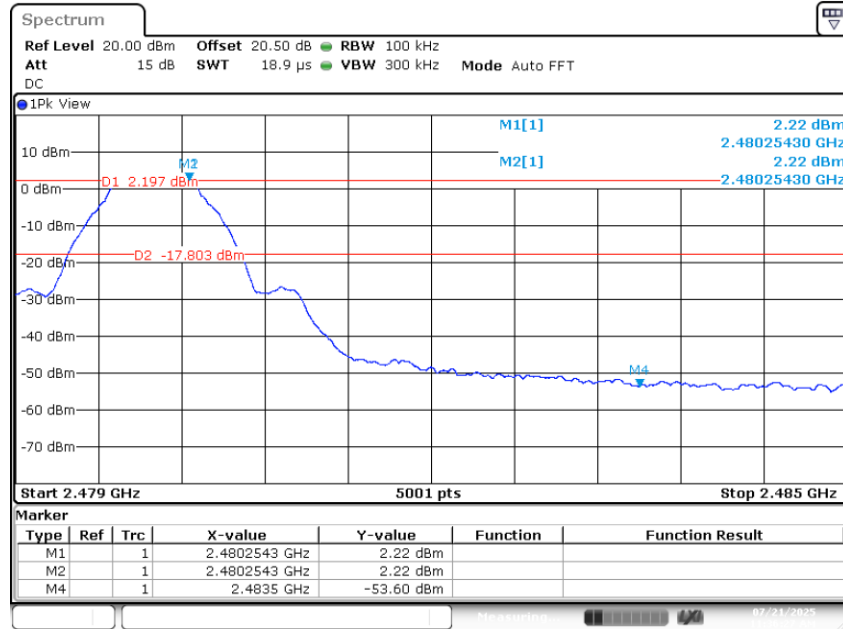
2480 MHz



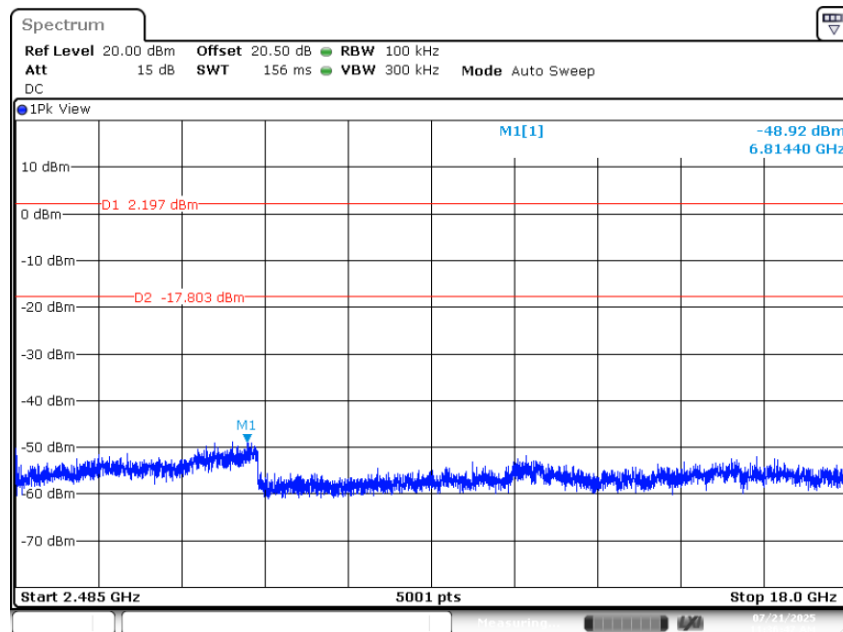
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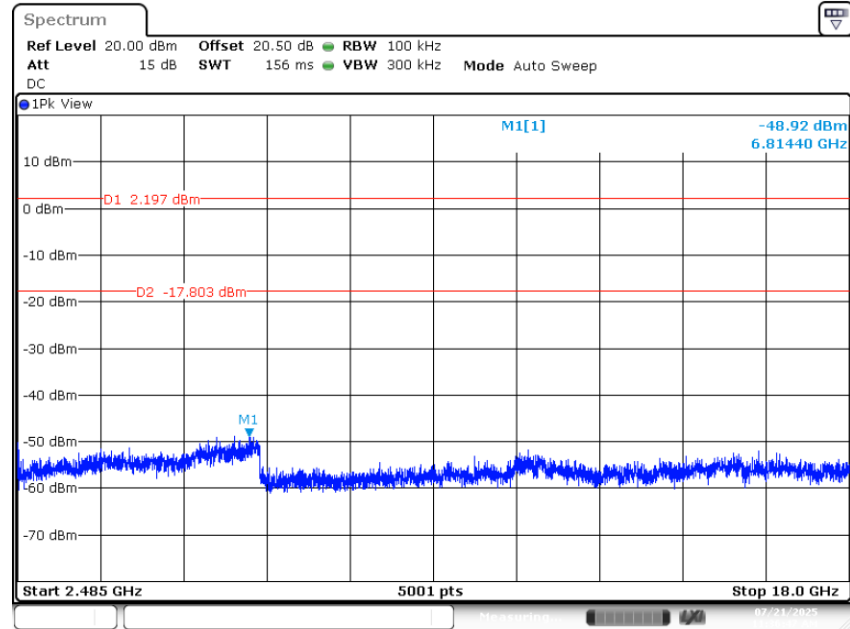
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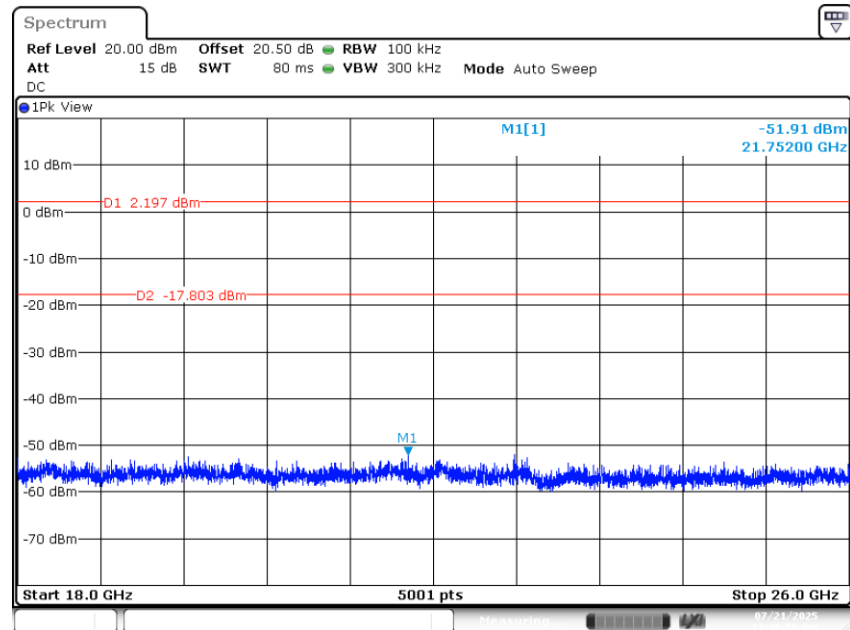
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Date: 21.JUL 2025 11:36:47



Date: 21.JUL 2025 11:36:47

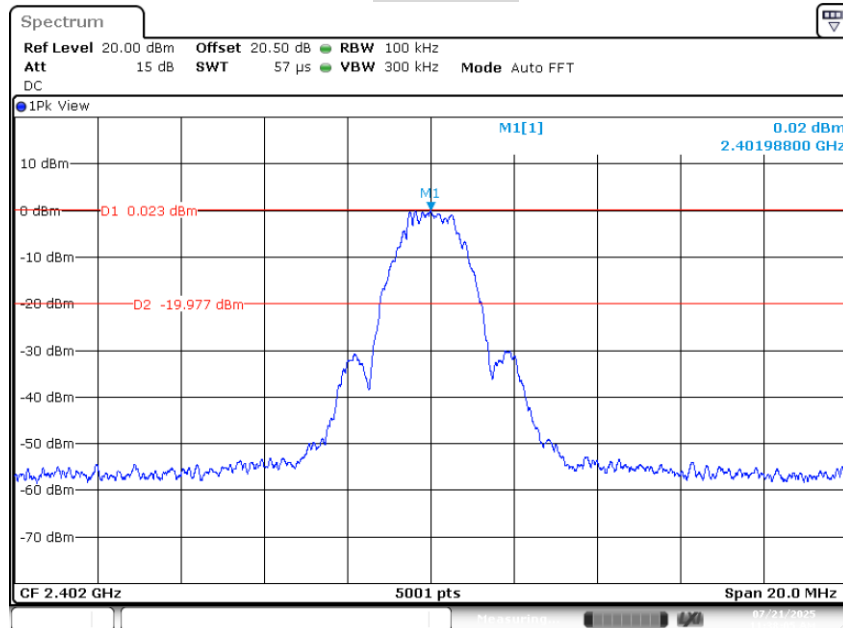


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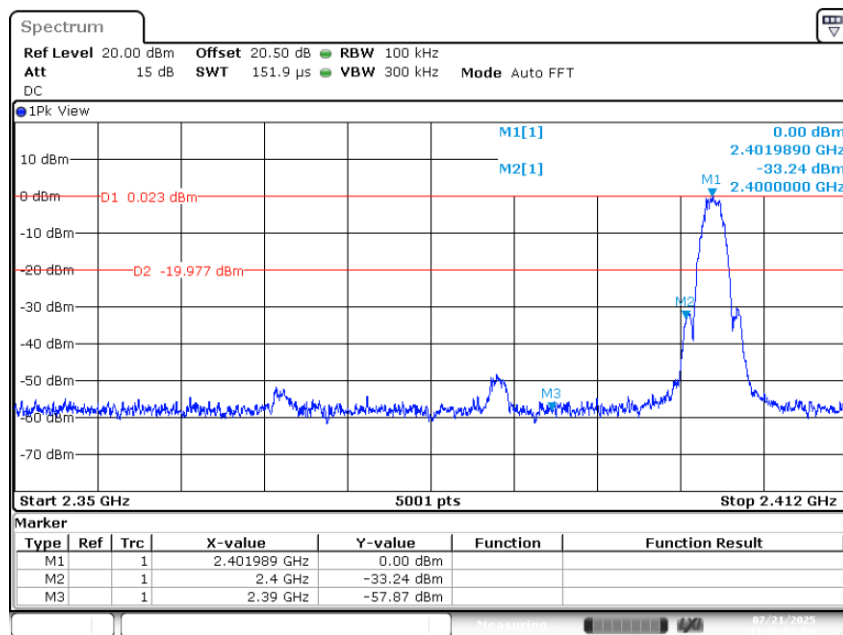


BLE 2M :

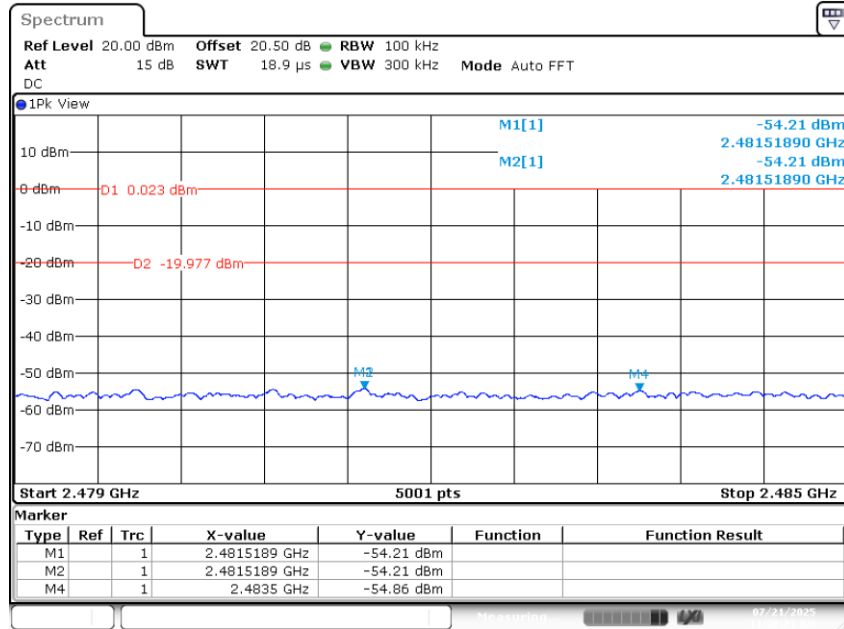
2402 MHz



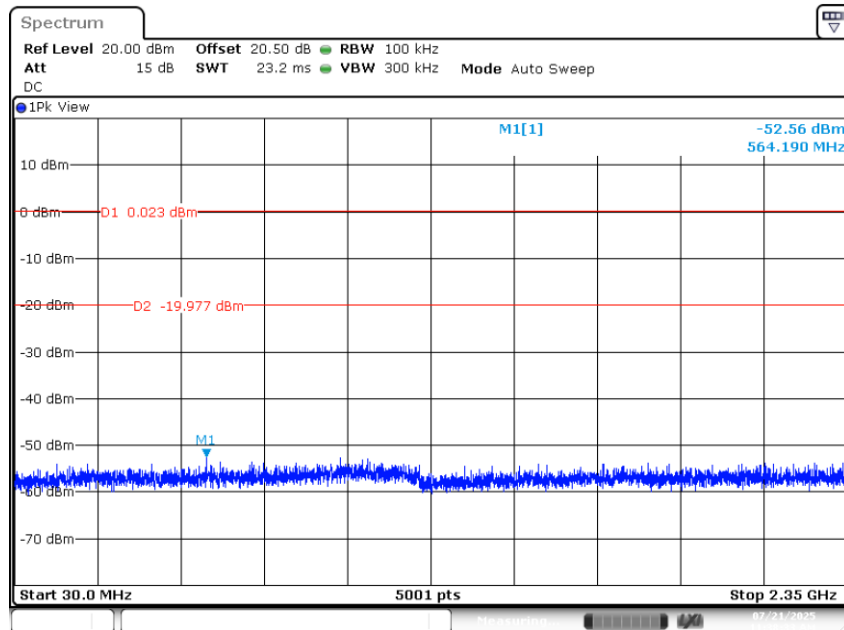
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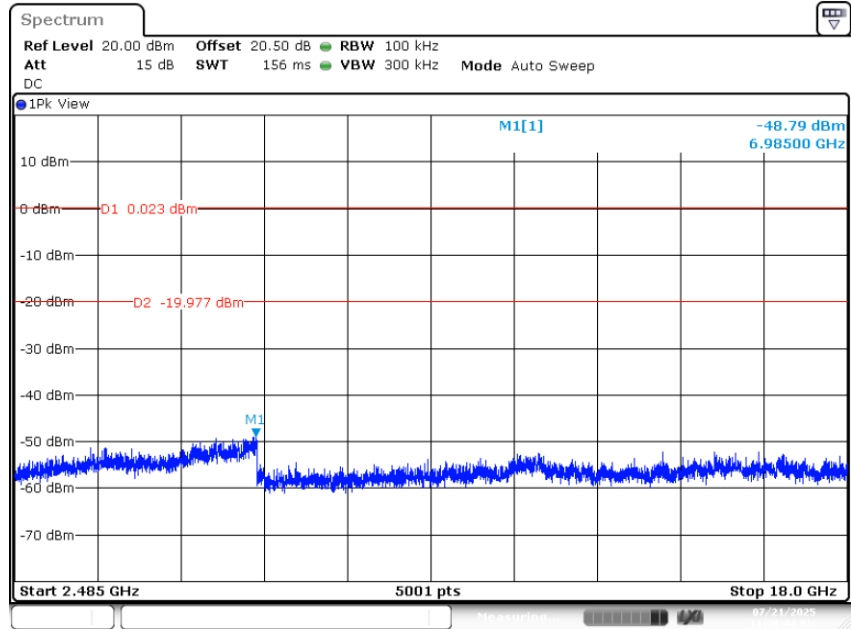
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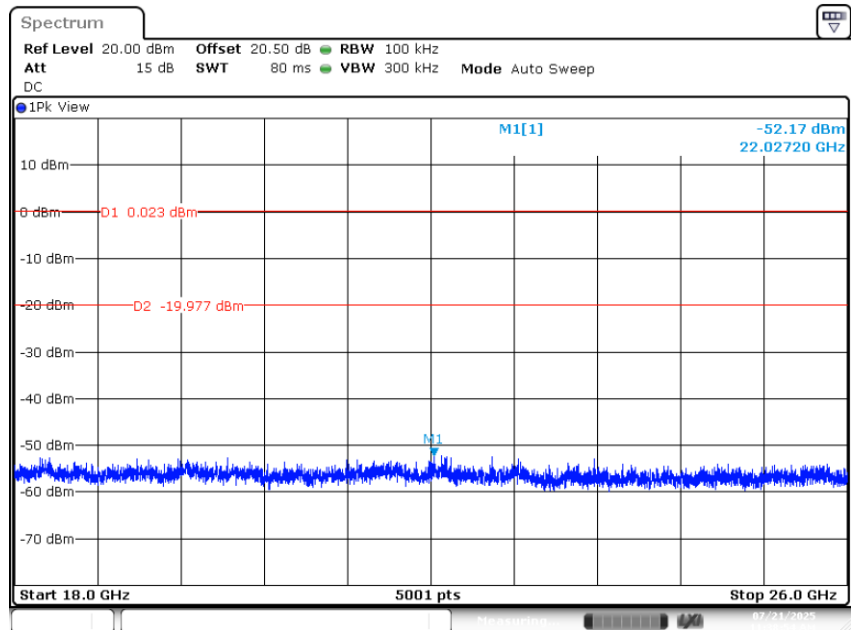
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Date: 21.JUL.2025 11:38:33



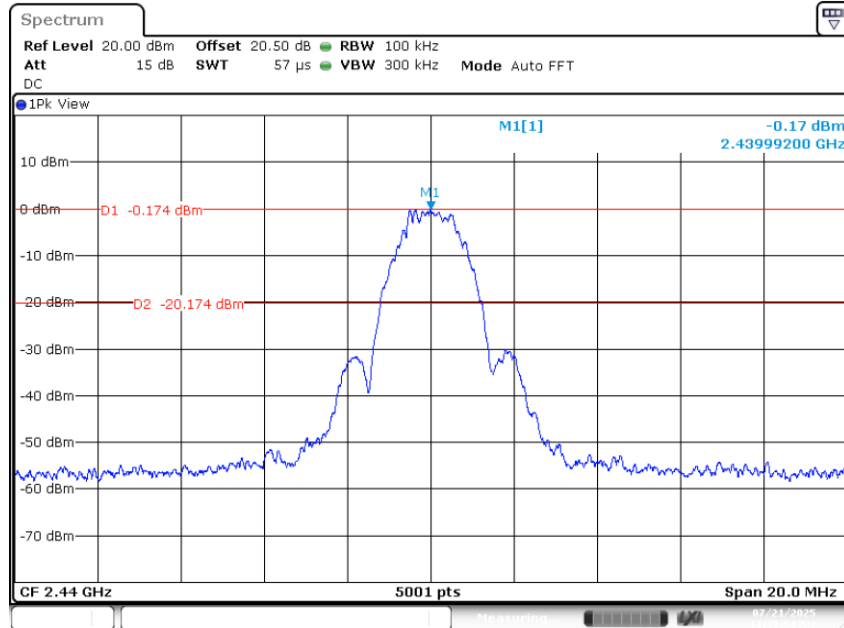
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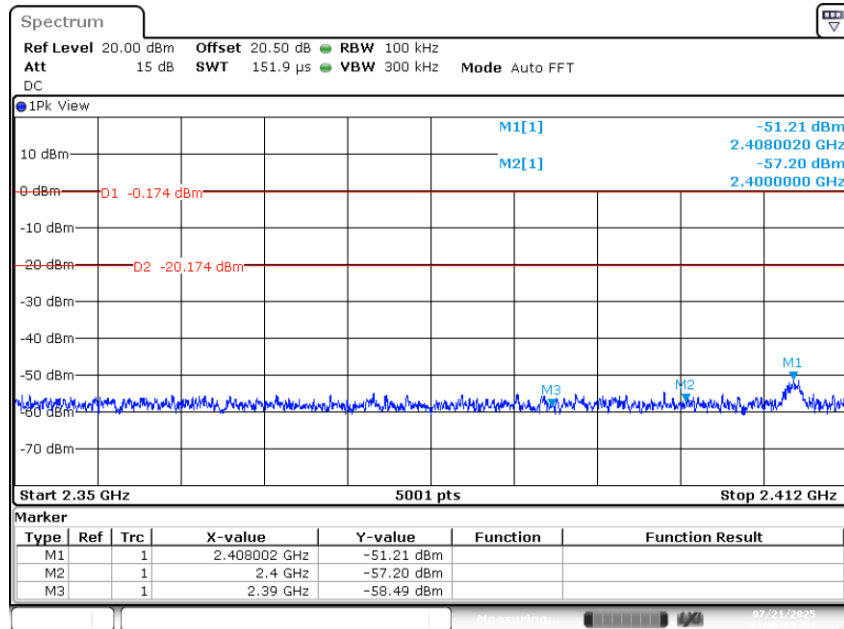
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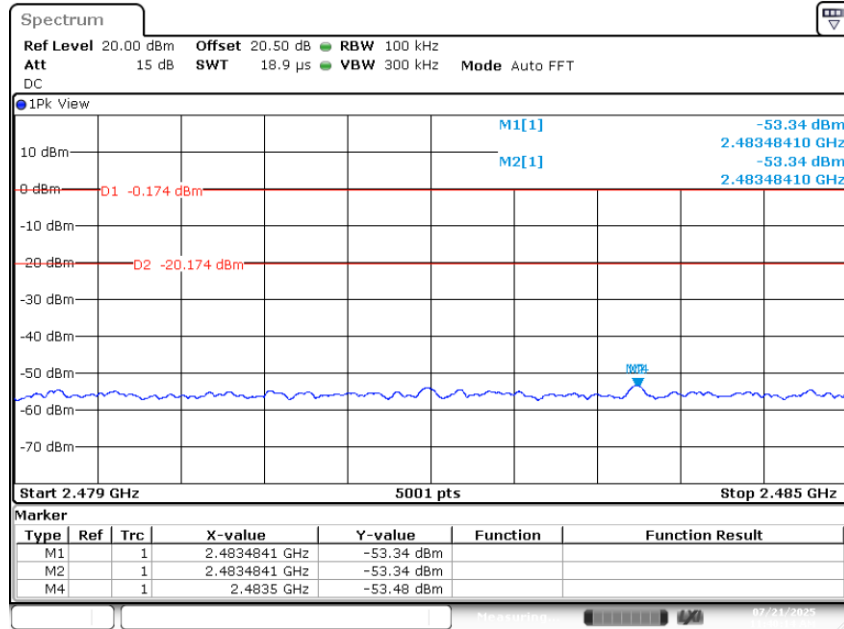
2440 MHz



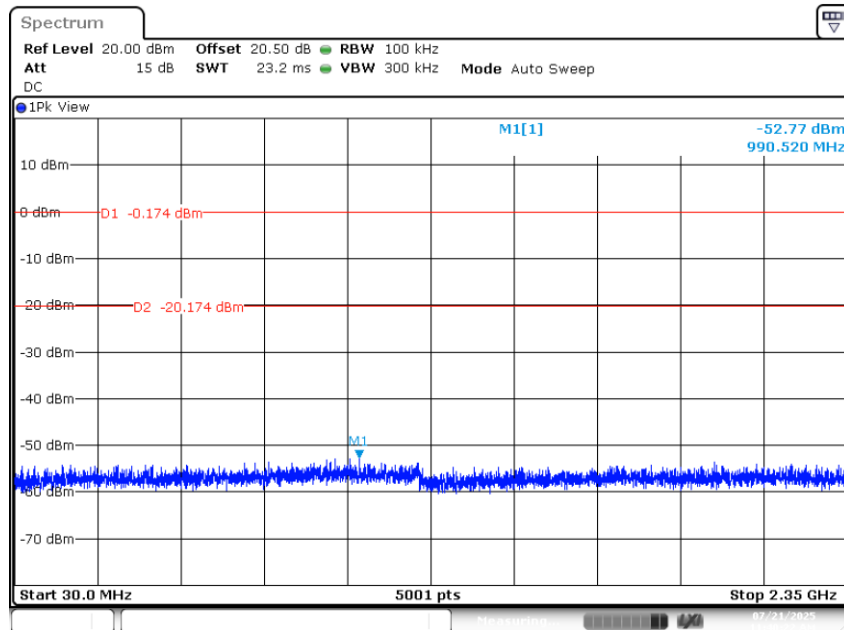
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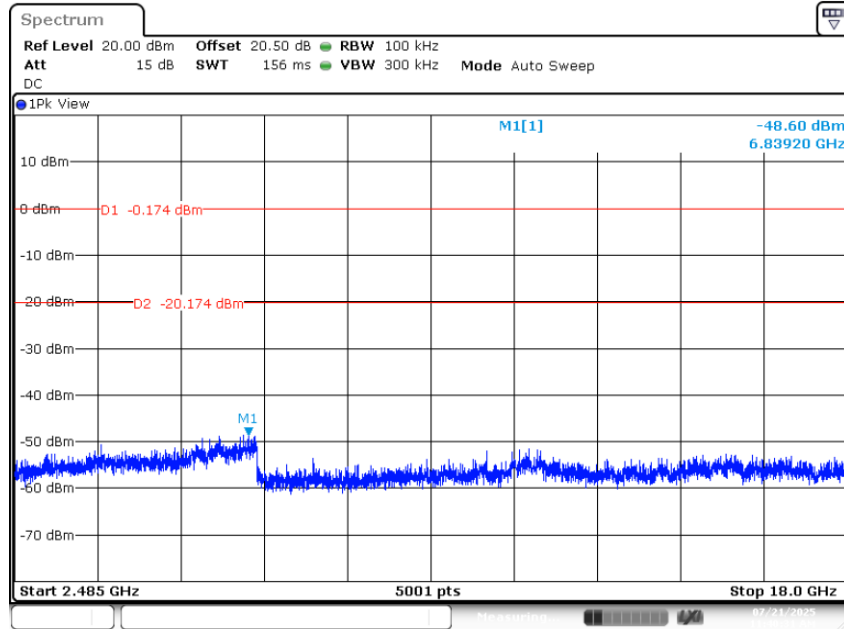
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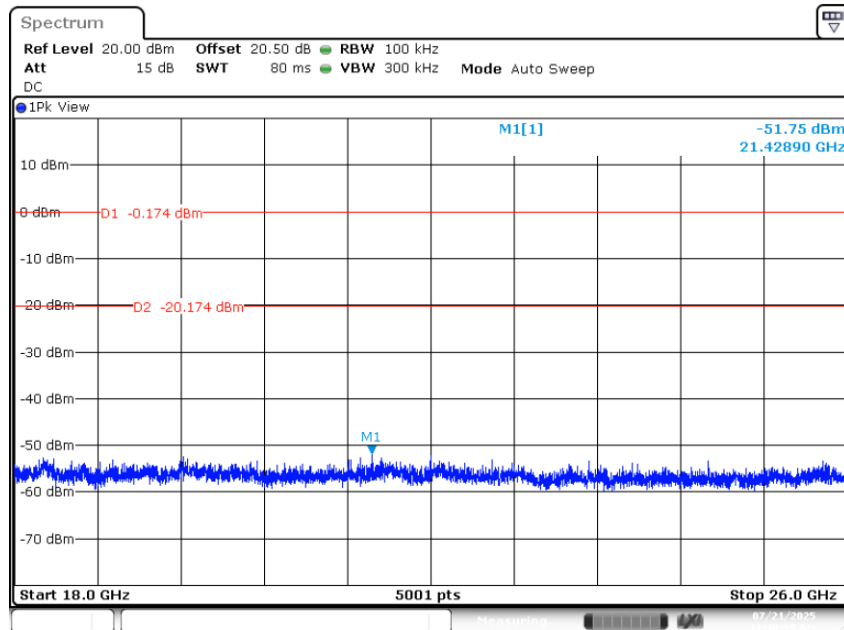
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Date: 21.JUL.2025 11:40:21



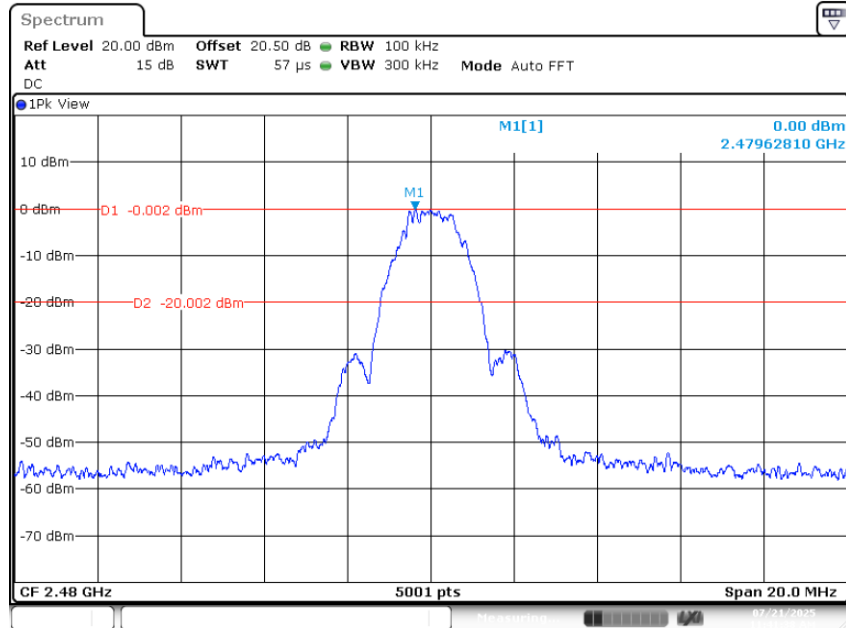
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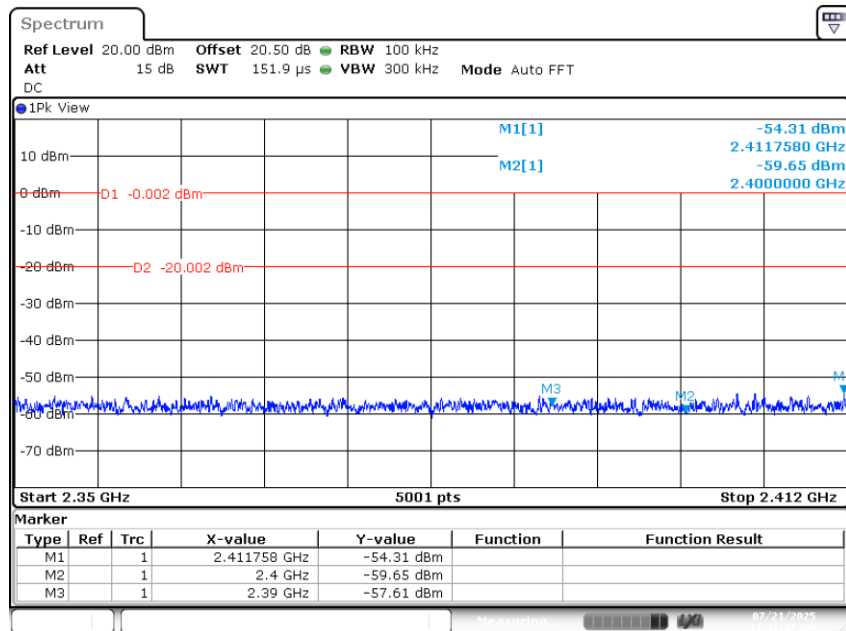
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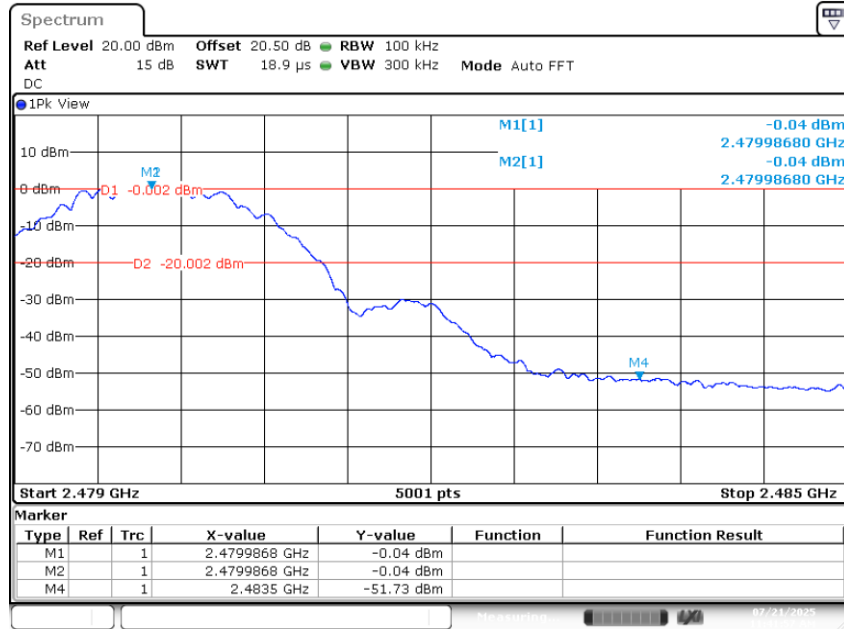
2480 MHz



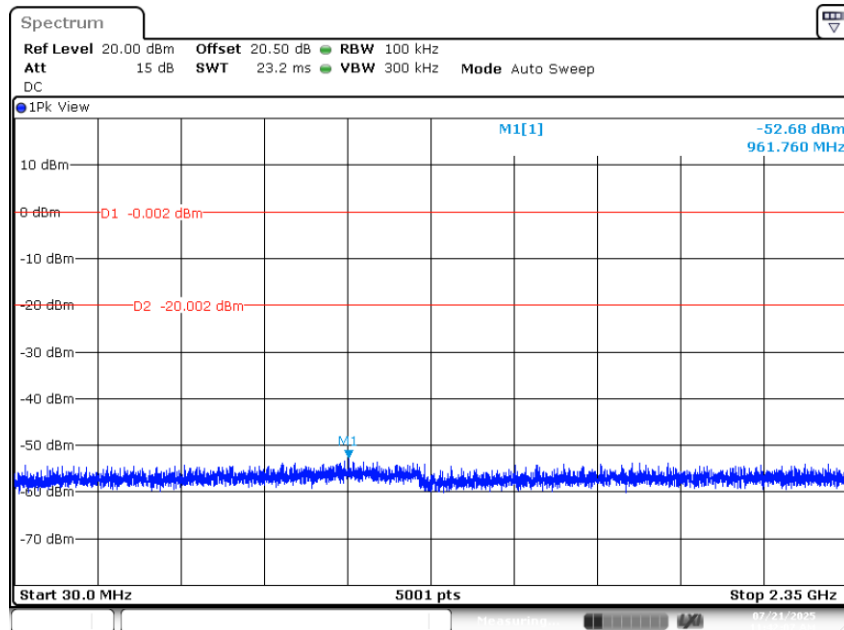
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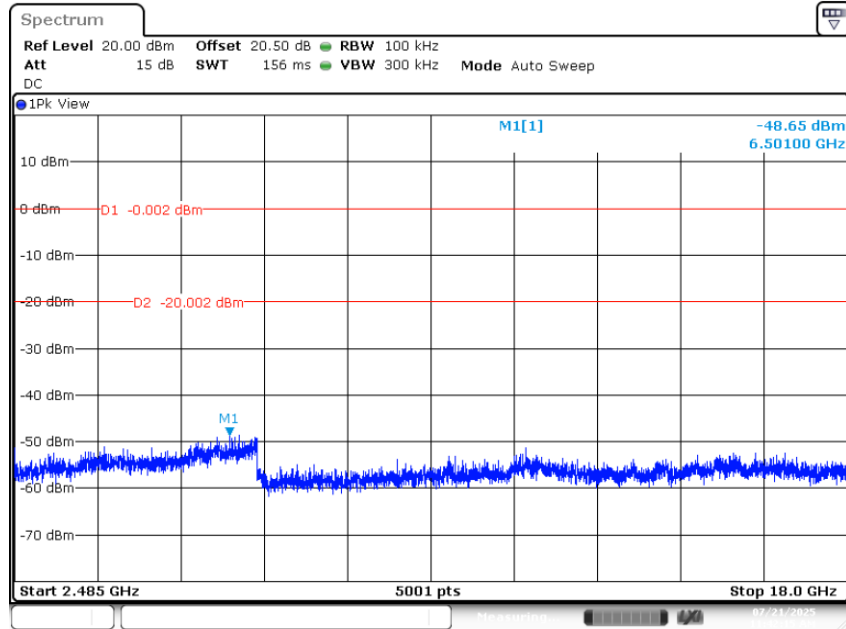
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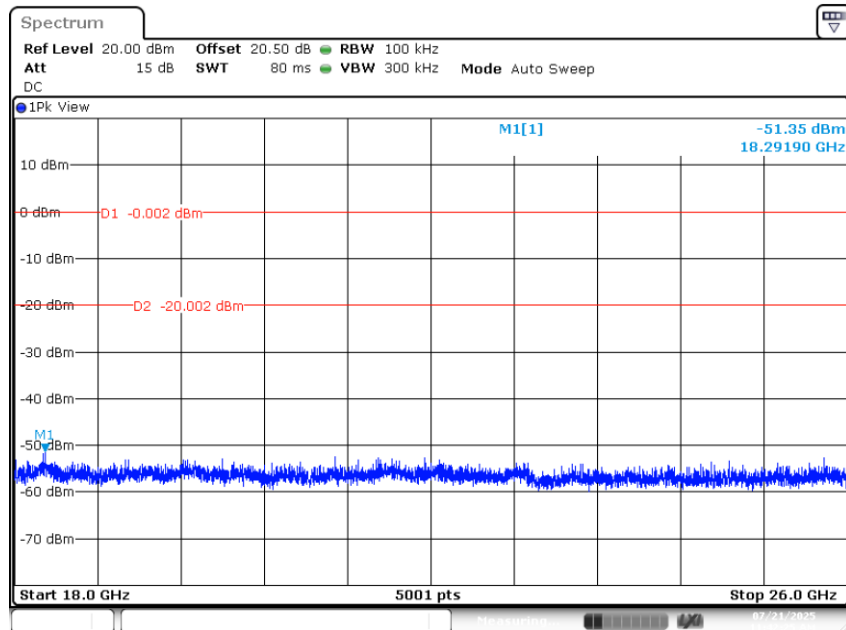
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Date: 21.JUL.2025 11:42:07



Date: 21.JUL.2025 11:42:16



Date: 21.JUL.2025 11:42:25



11. POWER SPECTRAL DENSITY

11.1 TEST SETUP



11.2 LIMIT

According to § 15.247e , For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

11.3 TEST PROCEDURE

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 3 kHz and VBW is set to 10 kHz on spectrum analyzer. Set the span to at least 1.5 times the DTS channel bandwidth. Sweep time = auto couple. Trace mode = max hold. The peak power spectral density is recorded.

11.4 TEST RESULTS

PASS

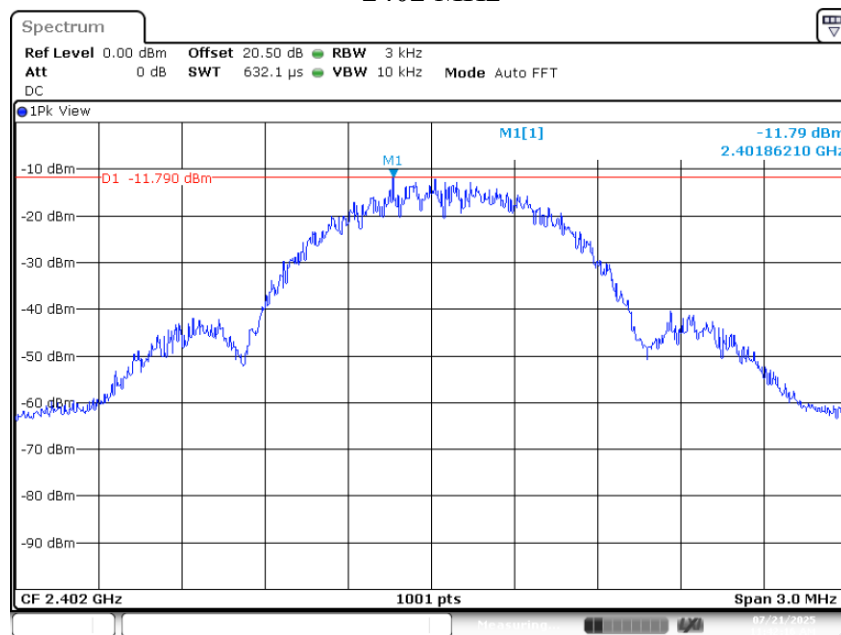


11.5 TEST DATA:

Tx Mode: BLE 1M

Frequency (MHz)	power spectral density (dBm)	Max Limit (dBm)
2402	-11.79	≤ 8
2440	-12.90	≤ 8
2480	-12.95	≤ 8

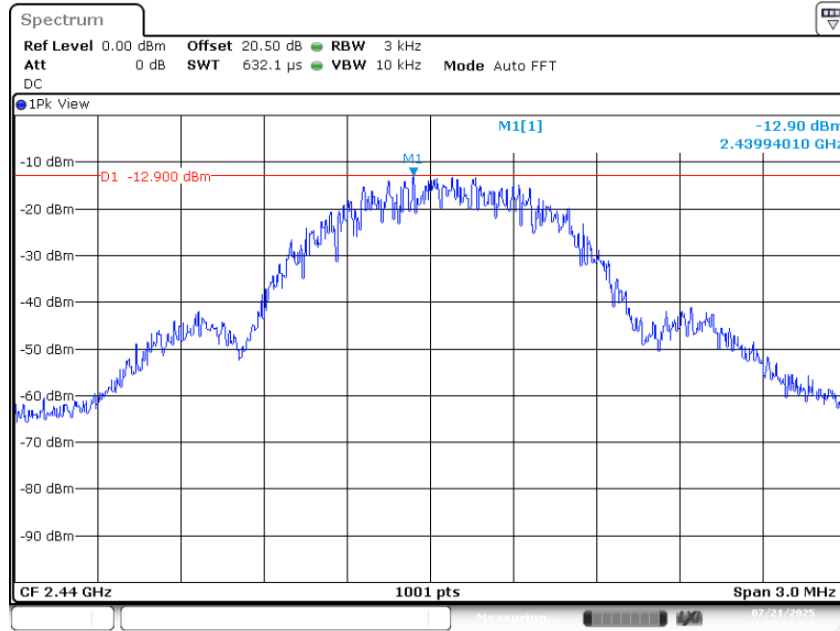
2402 MHz



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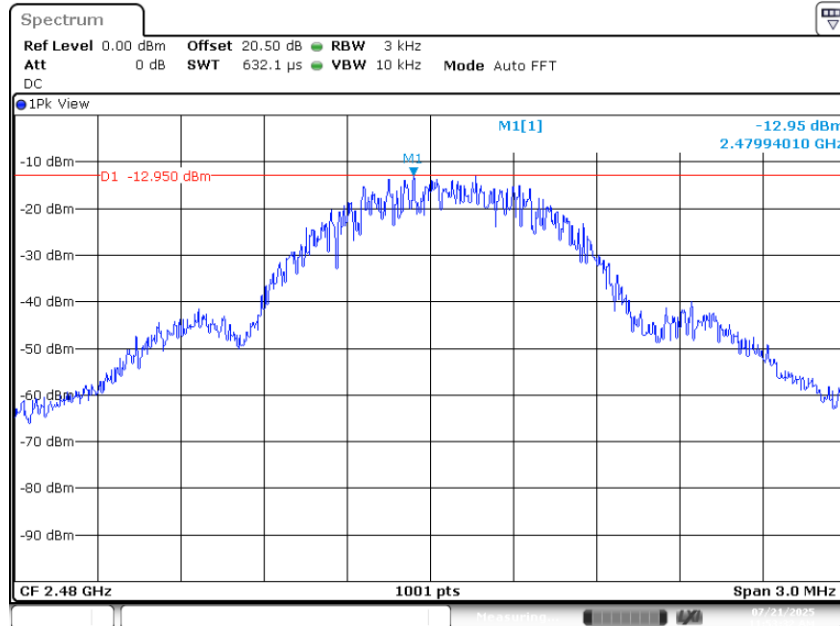


2440 MHz



Date: 21.JUL 2025 11:52:08

2480 MHz



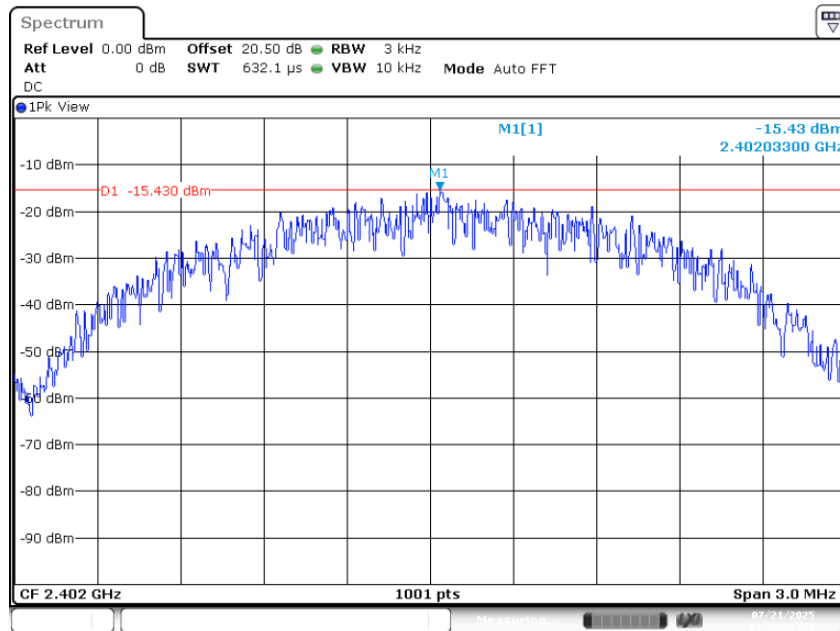
Date: 21.JUL 2025 11:53:32



Tx Mode: BLE 2M

Frequency (MHz)	power spectral density (dBm)	Max Limit (dBm)
2402	-15.43	≤ 8
2440	-15.92	≤ 8
2480	-15.60	≤ 8

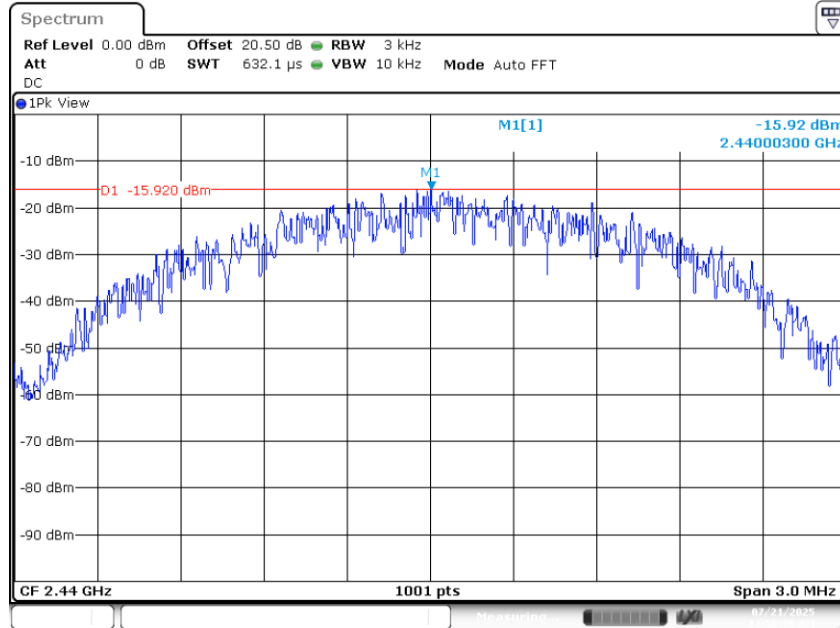
2402 MHz



Date: 21 JUL 2025 11:55:02

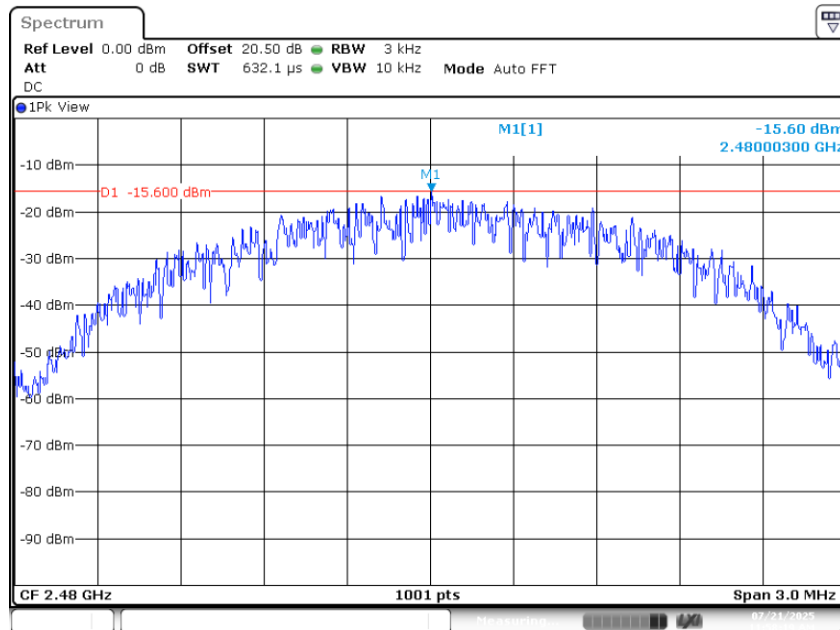


2440MHz



Date: 21.JUL.2025 11:56:36

2480 MHz



Date: 21.JUL.2025 11:58:19



12. MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test item	Expansion uncertainty	
Conducted Emission	0.15-30MHz	± 1.45 dB
Radiated Emission (3m)	0.03-1 GHz	± 4.06 dB
	1-18 GHz	± 5.11 dB
	18-40 GHz	± 5.01 dB
Output power	± 0.78 dB	
Power Spectral Density	± 0.78 dB	