

FCC PART 15.247

TEST REPORT

For

Chengdu Ebyte Electronic Technology Co., Ltd

Building B2, Mould Industrial Park, 199# Xi-Qu Ave, West High-tech Zone, Chengdu, 611731, Sichuan, China

Tested Model: E28-2G4T12S
FCC ID: 2A8C3-E282G4T12S

Report Type: Original Report		Product Name: Wireless Module	
Report Number:	RSC250522001-0		
Date of Report Issue:	2025-06-27		
Reviewed By:	Sula Huang		
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Chengdu Ebyte Electronic Technology Co., Ltd
Address	Building B2, Mould Industrial Park, 199# Xi-Qu Ave, West High-tech Zone, Chengdu, 611731, Sichuan, China
Email	157768495@qq.com
Product	Wireless Module
Tested Model	E28-2G4T12S
FCC ID	2A8C3-E282G4T12S
Frequency*	100 kbps: 2402-2480 MHz 1Mbps: 2403-2479.5 MHz 2Mbps: 2402.5-2480 MHz
Modulation Type*	GFSK
Antenna Gain*	4dBi
RF peak output power	5.76 dBm
Voltage*	DC 2.3V – 5.5V (Typical: 5V)
Measure approximately	28.7mm (L) × 17.5mm (W) × 2.8mm (H)
Sample serial number	250522001/01 (RF Radiated Test & RF Conducted Test) (assigned by the BACL, Chengdu)
Sample/EUT Status	The test sample was in good condition and received: 2025-05-22

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Objective

This report is prepared on behalf of **Chengdu Ebyte Electronic Technology Co., Ltd** in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Measurement Uncertainty

Item			Measurement Uncertainty	U_{cispr}
AC power line conducted emission			2.65dB	3.4dB
Radiated Emission	9kHz-30MHz		4.47dB	-
	30MHz-1GHz	H	6.08dB	6.3 dB
		V	7.81dB	6.3 dB
	1GHz-6GHz		5.83dB	5.2 dB
	6GHz-18GHz		6.01dB	5.5 dB
	18GHz-40GHz		6.60dB	-

Item	Measurement Uncertainty
RF output power, conducted	$\pm 0.61\text{dB}$
Occupied Bandwidth	$\pm 1.69\%$
Power Spectrum Density, conducted	$\pm 2.52\text{dB}$
Humidity	$\pm 5\%$
Temperature	$\pm 1^{\circ}\text{C}$
Voltage(DC)	$\pm 0.4\%$
Time	1%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the corresponding inclusion factor K when the inclusion probability is about 95%.

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
2. KDB558074 D01 15.247 Meas Guidance v05r02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Bay Area Compliance Laboratories Corp. (Chengdu) lab is accredited to ISO/IEC 17025 by NVLAP (Lab code: 600346-0) and the FCC designation No.: CN5056. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration*

The system was configured in testing mode, which was provided by manufacturer.

For 100kHz, 79 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	42	2443
2	2403	43	2444
3	2404	44	2445
...	...	...	...
39	2440	77	2478
40	2441	78	2479
41	2442	79	2480

Tested with channel 1, 39 and 79.

For 1Mbps, 52 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	42	2464.5
2	2404.5	43	2466
3	2406	44	2467.5
...	...	...	...
25	2439	50	2476.5
26	2440.5	51	2478
27	2442	52	2479.5

Tested with channel 1, 27 and 52.

For 2Mbps, 32 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402.5	17	2442.5
2	2405	18	2445
...	...	...	...
...	...	...	...
15	2437.5	31	2477.5
16	2440	32	2480

Tested with channel 1, 16 and 32.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software*

The setting by the software as following table:

Test Mode	Test Software	XCOM V2.6&E28_RF_Setting V2.0		
100k	Test Frequency	2402MHz	2440MHz	2480MHz
	Data Rate	100kbps	100kbps	100kbps
	Power Level	5	5	5
1M	Test Frequency	2403 MHz	2442 MHz	2479.5 MHz
	Data Rate	1Mbps	1Mbps s	1Mbps
	Power Level	5	5	5
2M	Test Frequency	2402.5 MHz	2440 MHz	2480 MHz
	Data Rate	2Mbps	2Mbps	2Mbps
	Power Level	5	5	5

Support Test Devices Description

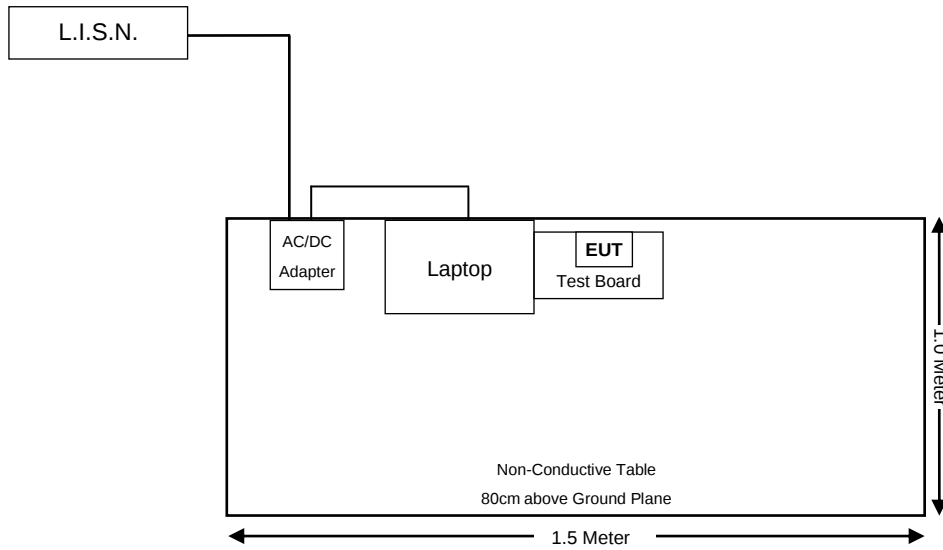
Manufacturer	Device Name	Model	Serial Number
Local			
Ebyte	Test Board	V1.0	10553
Lenovo	Laptop	Lenovo idea pad 110-15ISK	MP16ZUWP
Lenovo	AC/DC Adapter	ADLX45NDC2A	SA10E75790

Support Test Cable Description

Cable Description	Length (m)	From / Port	To
Unshielded AC Power Cable	1.5	L.I.S.N.	AC/DC Adapter
Unshielded DC Power Cable	1.5	AC/DC Adapter	Laptop
Unshielded USB Cable	1.1	Laptop	Test Board with EUT

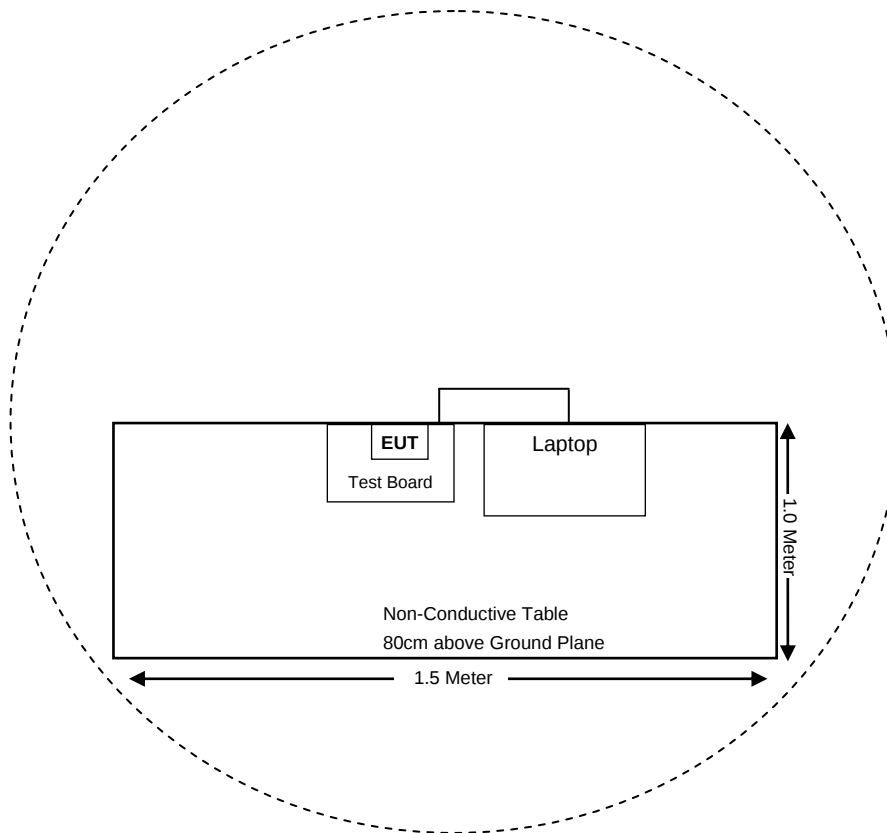
Block Diagram of Test Setup

Conducted Emissions:

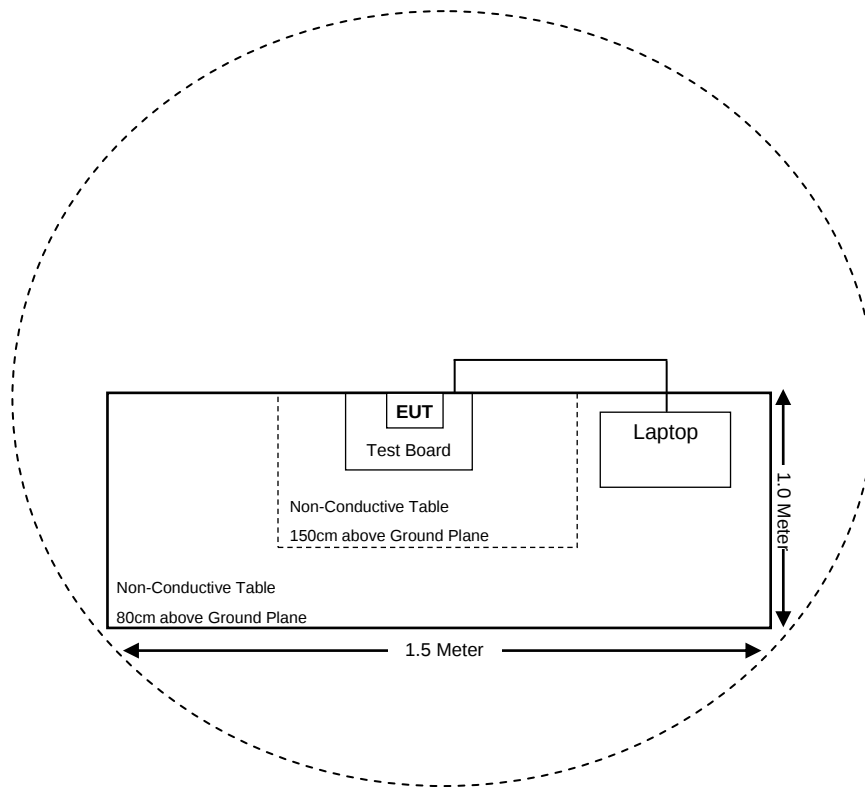


Radiated Emissions

Below 1GHz:



Above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247(i), §1.1307(b)(3)(i)	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Raidated Spurious Emissions	Compliant
§15.247(d)	Conducted Spurious Emissions at Antenna Terminal	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum conducted output power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

TEST EQUIPMENTS LIST

Manufacturer	Description	Model Number	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2025-03-27	2026-03-26
Rohde & Schwarz	L.I.S.N.	ENV216	101112	2025-03-27	2026-03-26
HP	RF Limiter	11947A	3107A01270	2024-08-03	2025-08-02
UTIFLEX	Conducted Cable	L-E-003	000003	2024-08-03	2025-08-02
Rohde & Schwarz	EMC32	EMC32	V 8.52.0	NCR	NCR
Radiated Emissions (9kHz-30MHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2026-04-14
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2025-03-27	2026-03-26
BACL CORP	Active Loop Antenna	1313-1A	4031411	2025-06-09	2026-06-08
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J- N/J-2M-A	T-E271	2024-11-18	2025-11-17
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J- N/J-7M-A	T-E268	2024-11-18	2025-11-17
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
Radiated Emissions (30MHz-1GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2026-04-14
Sonoma Instrument	Pre-Amplifier	310 N	185444	2025-03-27	2026-03-26
Sunol Sciences	Broadband Antenna	JB3	A121808	2025-01-16	2026-01-15
INMET	Attenuator	18N-6dB	64671	2025-01-16	2026-01-15
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2025-03-27	2026-03-26
Huber+Suhener	RF Cable (Below 1GHz)	L-E-015	MY4345/EA	2024-11-18	2025-11-17
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J -2M-A	T-E271	2024-11-18	2025-11-17
Xin Hang Xun Wei Bo	RF Cable (Below 1GHz)	XH500A-N/J-N/J -7M-A	T-E268	2024-11-18	2025-11-17
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR

Manufacturer	Description	Model Number	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions (1GHz-18GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2026-04-14
Rohde & Schwarz	Spectrum Analyzer	FSU26	200835	2025-03-27	2026-03-26
Rohde & Schwarz	EMI Test Receiver	ESIB40	100215	2025-03-27	2026-03-26
ETS	Horn Antenna	3115	003-6076	2024-08-16	2025-08-15
A.H. Systems, inc.	Pre-Amplifier	PAM-0118P	509	2024-08-07	2025-08-06
Xin Hang Xun Wei Bo	RF Cable (Above 1GHz)	XH500A-SMA/J-N/J-2M-A	L-E-016	2024-12-12	2025-12-11
Xin Hang Xun Wei Bo	RF Cable (Above 1GHz)	XH500A-SMA/J-N/J-5M-A	L-E-017	2024-12-12	2025-12-11
MICRO-TRONICS	2.4GHz Notch Filter	BRM50702	G396	2025-05-17	2026-05-16
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
Radiated Emissions (18GHz-25GHz)					
EMCT	Semi-Anechoic Chamber	966	001	2023-04-15	2026-04-14
Rohde & Schwarz	Signal Analyzer	FSV40	101943	2025-03-26	2026-03-25
Rohde & Schwarz	EMI Test Receiver	ESIB40	100215	2025-03-27	2026-03-26
A.H. Systems, inc.	Hom-Antenna	SAS-574	505	2024-08-19	2025-08-18
BACL	Pre-Amplifier	BACL-1313-A1840	4051711	2024-12-04	2025-12-03
Xin Hang Xun Wei Bo	RF Cable (Above 18GHz)	XH360A-2.92/J-2.92/J-1.5M-A	T-E302	2025-06-02	2026-06-01
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101943	2025-03-26	2026-03-25
MIDWEST	6dB Attenuator	219	AA4305	2025-02-28	2026-02-27
Astrolab	RF Coaxial Cable	MINIREND-5	1206	2024-10-18	2025-10-17

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Chengdu) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247(i), §1.1307(b)(3)(i) - RF Exposure

Applicable Standard

According to §1.1307(b)(3)(i), 447498 D04 Interim General RF Exposure Guidance v01

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C)—Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3–1.34	$1,920 R^2$.
1.34–30	$3,450 R^2/f^2$.
30–300	$3.83 R^2$.
300–1,500	$0.0128 R^2 f$.
1,500–100,000	$19.2 R^2$.

RF Exposure Evaluation Result

Frequency (MHz)	Tune-up Conducted Power	Ant Gain (dBi)	Evaluation Distance (mm)	ERP		ERP Limit (mW)	Exemption
	(dBm)			(dBm)	(mW)		
2402-2480	6.0	4.0	200	7.85	6.10	768	Compliant

Note: $\text{dBi} = \text{dBd} + 2.15$

Result: The device meets the Exemption at 20cm distances.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. The unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Information*

The EUT has one PCB antenna and the maximum antenna gain is 4dBi, which fulfill the requirement of this section. Please refer to the EUT photos.

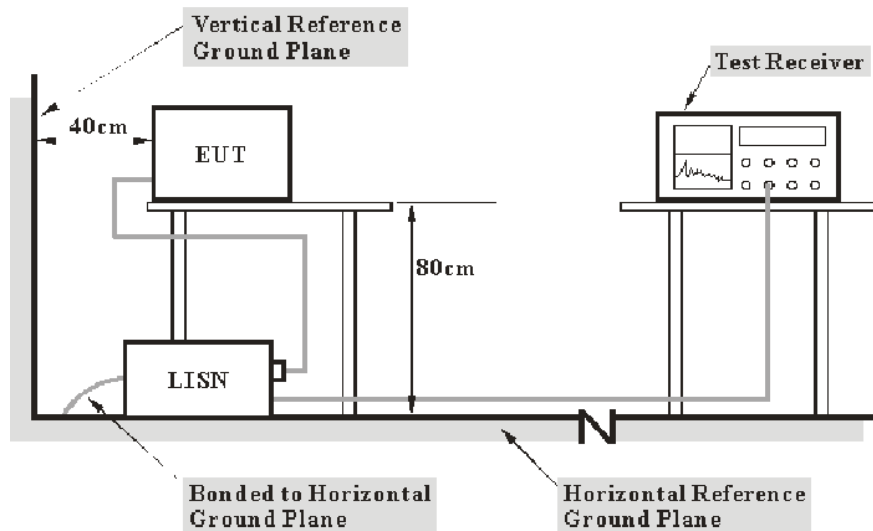
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the first L.I.S.N.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

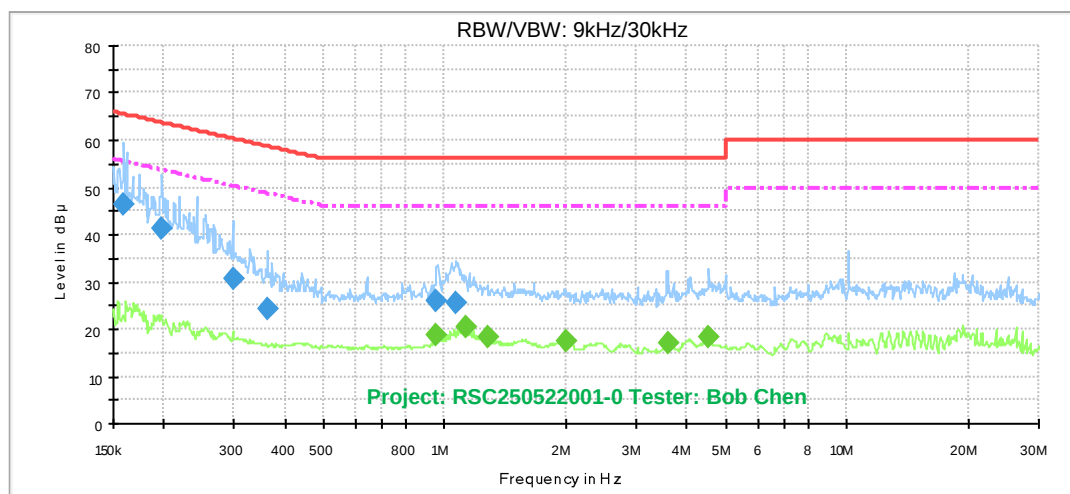
Test Data

Test Environment Conditions

Temperature:	23 °C
Relative Humidity:	56 %
ATM Pressure:	95.9 kPa

The testing was performed by Bob Chen on 2025-06-03.

Test Mode: Transmitting_100k high channel_maximum transmitting power mode

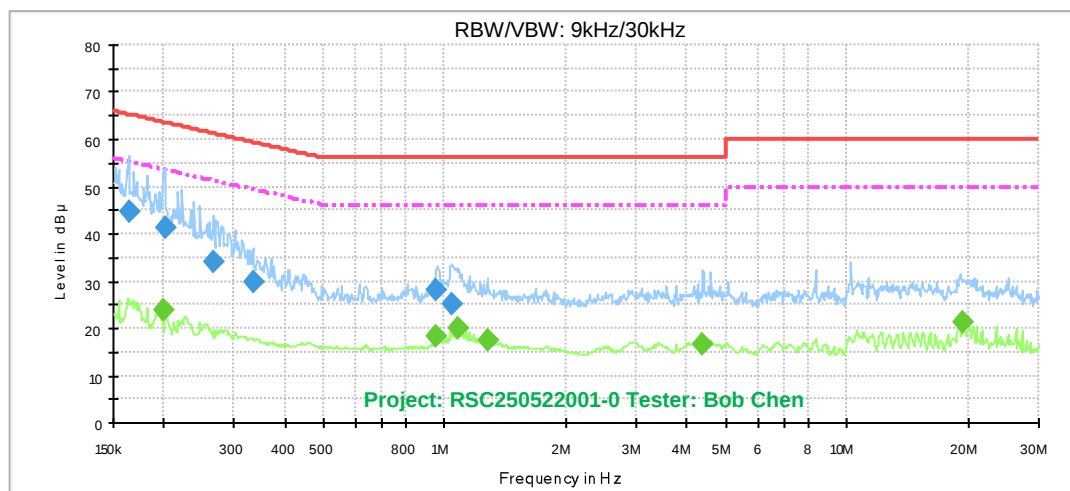
AC120V/60Hz, Line:

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)
0.159252	46.6	5000.0	9.000	On	L1	19.6	18.9	65.5
0.198331	41.4	5000.0	9.000	On	L1	19.6	22.3	63.7
0.297059	30.4	5000.0	9.000	On	L1	19.6	29.9	60.3
0.362647	24.3	5000.0	9.000	On	L1	19.7	34.4	58.7
0.954334	26.1	5000.0	9.000	On	L1	19.8	29.9	56.0
1.070335	25.4	5000.0	9.000	On	L1	19.8	30.6	56.0

Frequency (MHz)	CAverage (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)
0.954334	18.6	5000.0	9.000	On	L1	19.8	27.4	46.0
1.130698	20.6	5000.0	9.000	On	L1	19.8	25.4	46.0
1.274477	18.2	5000.0	9.000	On	L1	19.7	27.8	46.0
1.996538	17.6	5000.0	9.000	On	L1	19.6	28.4	46.0
3.578548	17.1	5000.0	9.000	On	L1	19.8	28.9	46.0
4.523887	18.3	5000.0	9.000	On	L1	19.8	27.7	46.0

Note:

- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter
- 3) Margin = Limit – Corrected Amplitude

AC120V/60Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)
0.164089	44.9	5000.0	9.000	On	N	19.6	20.4	65.3
0.201321	41.4	5000.0	9.000	On	N	19.6	22.2	63.6
0.266188	34.2	5000.0	9.000	On	N	19.6	27.0	61.2
0.334832	29.8	5000.0	9.000	On	N	19.6	29.5	59.3
0.954334	28.0	5000.0	9.000	On	N	19.7	28.0	56.0
1.043974	25.2	5000.0	9.000	On	N	19.7	30.8	56.0

Frequency (MHz)	CAverage (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)
0.199323	23.7	5000.0	9.000	On	N	19.6	29.9	53.6
0.954334	18.3	5000.0	9.000	On	N	19.7	27.7	46.0
1.081065	20.0	5000.0	9.000	On	N	19.7	26.0	46.0
1.274477	17.6	5000.0	9.000	On	N	19.6	28.4	46.0
4.390514	16.8	5000.0	9.000	On	N	19.8	29.2	46.0
19.505982	21.4	5000.0	9.000	On	N	19.8	28.6	50.0

Note:

- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter
- 3) Margin = Limit – Corrected Amplitude

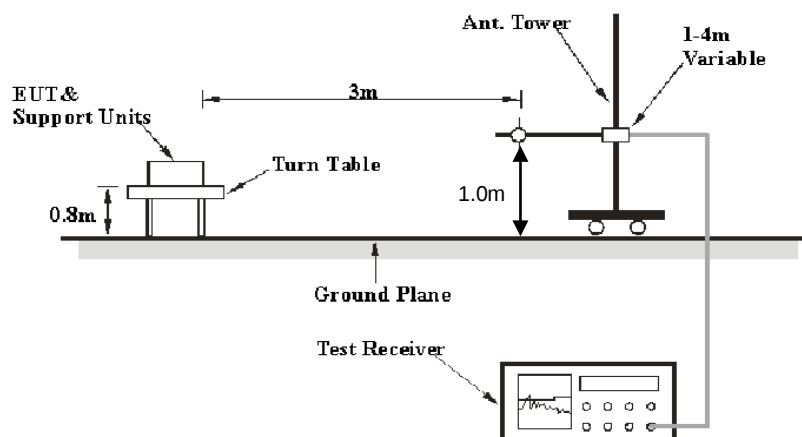
FCC §15.209, §15.205 & §15.247(d) - RADIATED SPURIOUS EMISSIONS & BAND EDGE

Applicable Standard

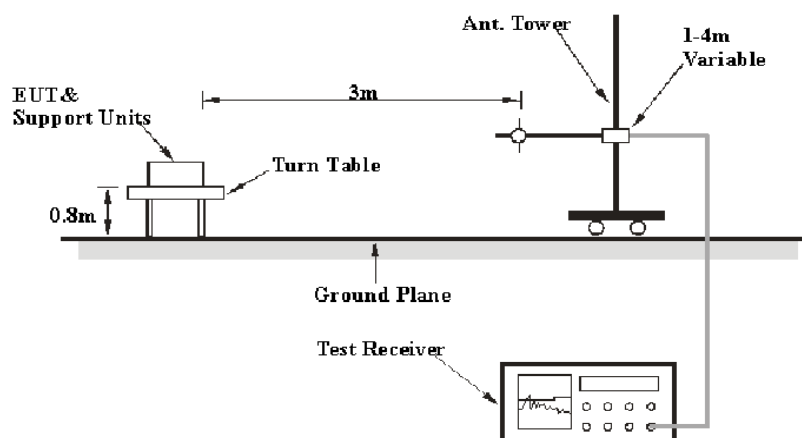
FCC §15.247 (d); §15.209; §15.205

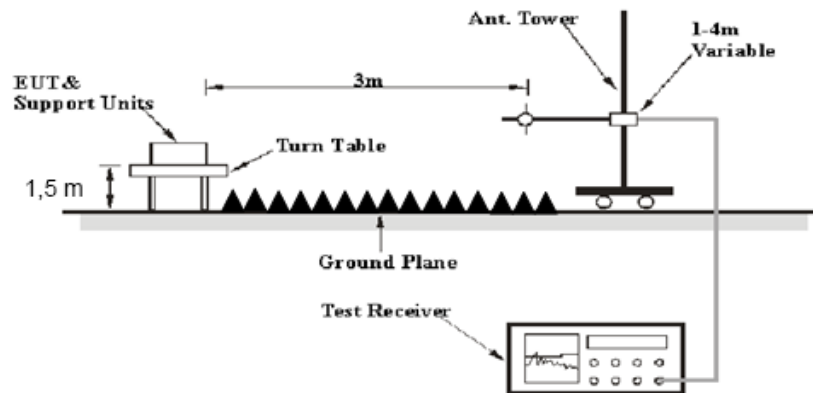
EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Signal Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver or Signal Analyzer was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	PK	PK
	200 Hz	/	QP	QP
150 kHz – 30 MHz	9 kHz	30 kHz	PK	PK
	9 kHz	/	QP	QP
30 MHz – 1000 MHz	120 kHz	500 kHz	PK	PK
	120 kHz	/	QP	QP

Frequency Range	Duty Cycle	RBW	Video B/W	Measurement	Detector
Above 1GHz	Any	1 MHz	3 MHz	PK	PK
	>98%	1 MHz	10Hz	AV	PK
	<98%	1 MHz	$\geq 1/T_{on}$	PK	PK

Note: T_{on} is minimum transmission duration.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1GHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

If the peak detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (MaxPeak or QuasiPeak)} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

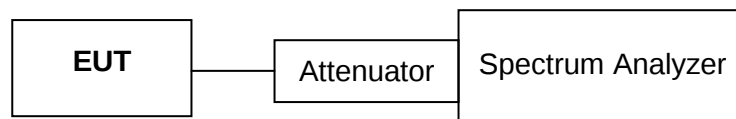
$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Conducted Spurious Emission At Antenna Port:

Connect the antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector.

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- 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 unwanted emissions amplitude level.

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

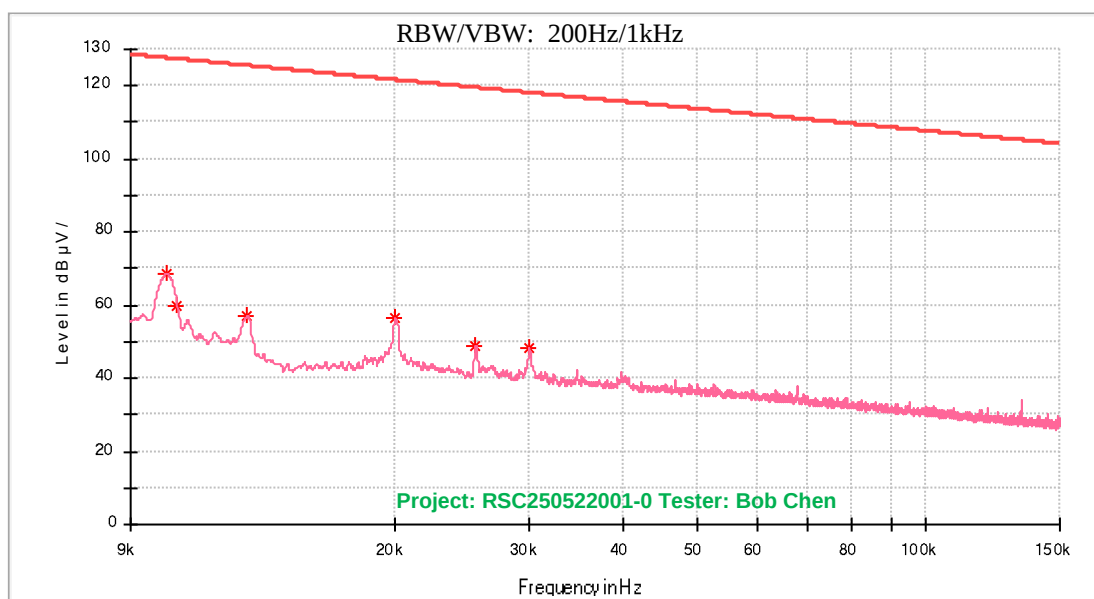
Test Data**Test Environment Conditions**

Temperature:	23 °C	24 °C
Relative Humidity:	52 °C	49 %
ATM Pressure:	96.1 kPa	96.2 kPa
Measurement:	Radiated	Conducted
Date:	2025-06-12	2025-05-28

The testing was performed by Bob Chen.

Test Mode: Transmitting

Note: Pre-scan and configuration EUT with X, Y and Z-axis, the Y-axis is the worst case.

Radiated Spurious Emissions:**1) 9 kHz to 150 kHz_100k high channel_ maximum transmitting power mode****Parallel**

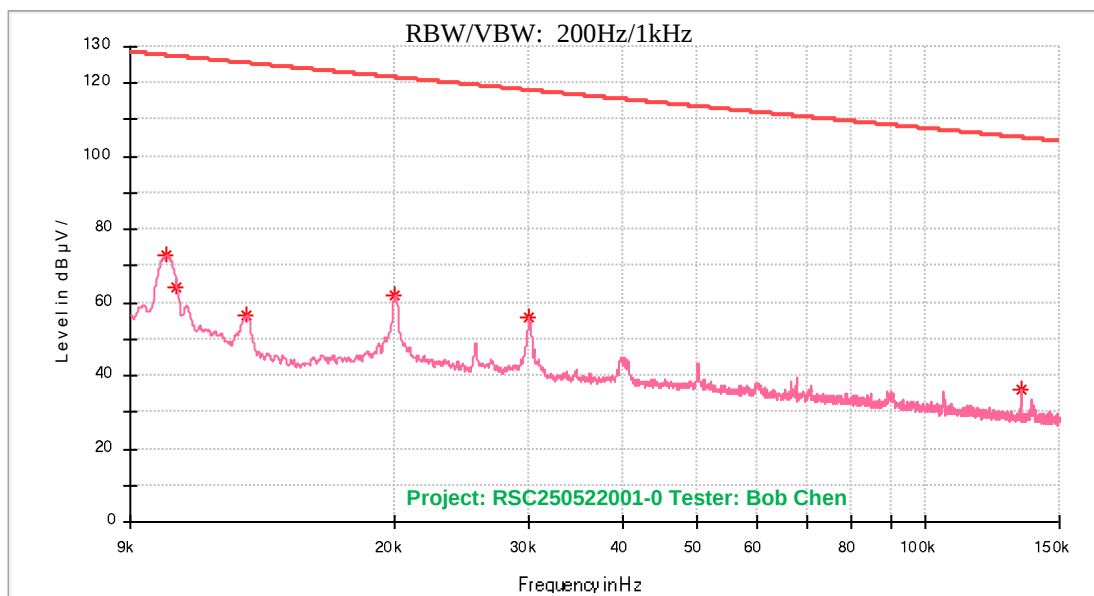
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
0.010058	68.55	127.54	58.98	25.4
0.010375	59.94	127.27	67.33	25.1
0.012825	57.20	125.43	68.23	22.8
0.020086	56.24	121.53	65.29	23.2
0.025568	48.94	119.44	70.49	22.6
0.030132	48.37	118.01	69.64	22.2

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Perpendicular

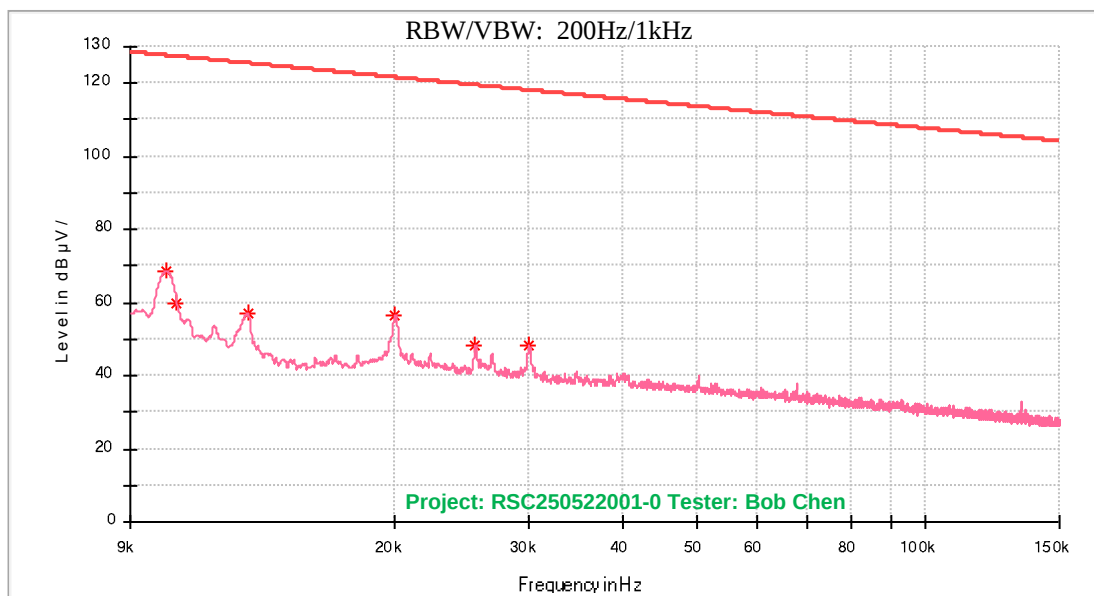
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
0.010058	72.94	127.54	54.59	25.4
0.010375	64.39	127.27	62.88	25.1
0.012825	56.58	125.43	68.85	22.8
0.020086	61.89	121.53	59.64	23.2
0.030115	55.82	118.01	62.20	22.2
0.133397	36.05	105.09	69.04	11.5

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Ground Parallel

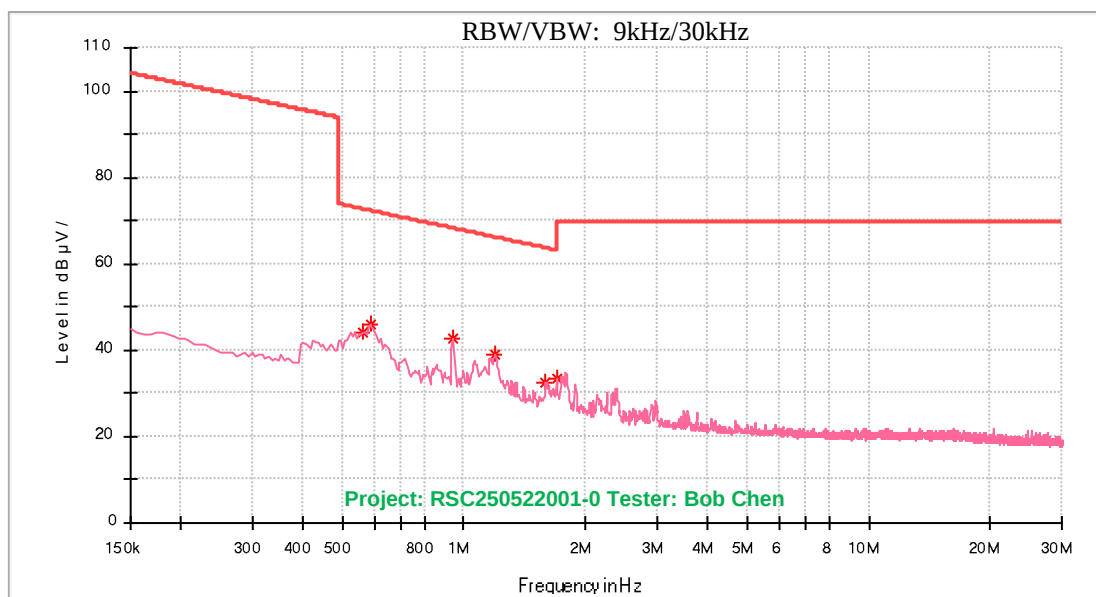
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
0.010040	68.79	127.55	58.76	25.5
0.010375	59.91	127.27	67.36	25.1
0.012842	57.25	125.41	68.16	22.8
0.020068	56.47	121.54	65.07	23.2
0.025585	48.18	119.43	71.25	22.6
0.030150	48.02	118.00	69.99	22.2

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

2) 150 kHz to 30 MHz_100k high channel_ maximum transmitting power mode**Parallel**

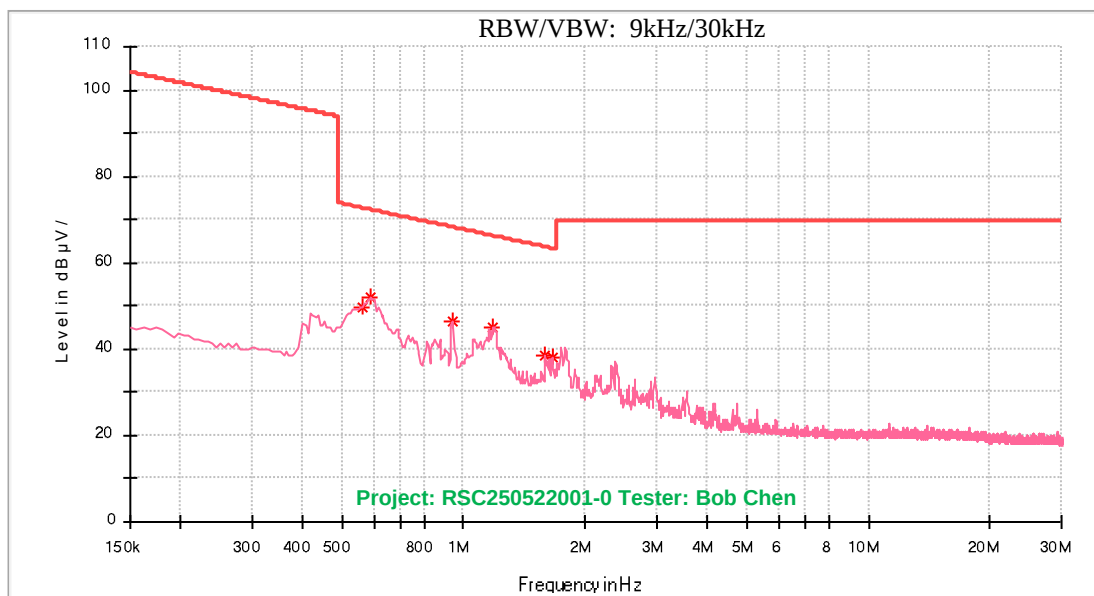
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Corr. (dB)
0.561930	44.22	72.61	28.40	-0.4
0.585810	45.88	72.25	26.37	-0.7
0.938040	42.91	68.18	25.27	-4.0
1.194750	38.76	66.08	27.32	-5.2
1.594740	32.53	63.58	31.05	-6.5
1.696230	33.43	63.04	29.62	-6.8

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Perpendicular

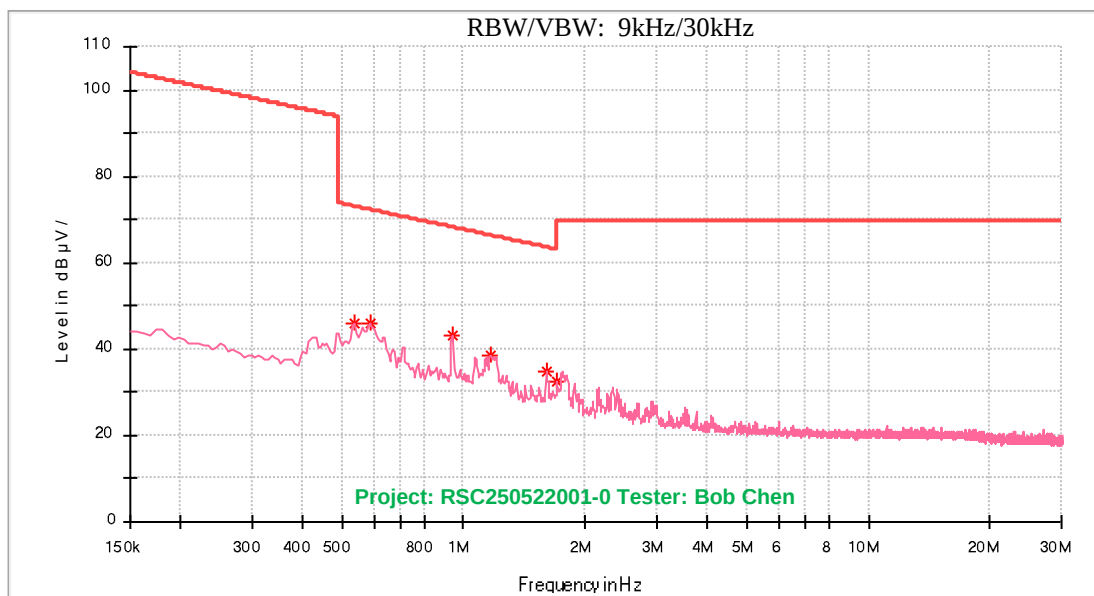
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
0.561930	49.80	72.61	22.81	-0.4
0.591780	52.06	72.17	20.11	-0.7
0.938040	46.51	68.18	21.66	-4.0
1.182810	45.13	66.17	21.03	-5.1
1.594740	38.57	63.58	25.01	-6.5
1.654440	37.83	63.26	25.43	-6.7

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Ground Parallel

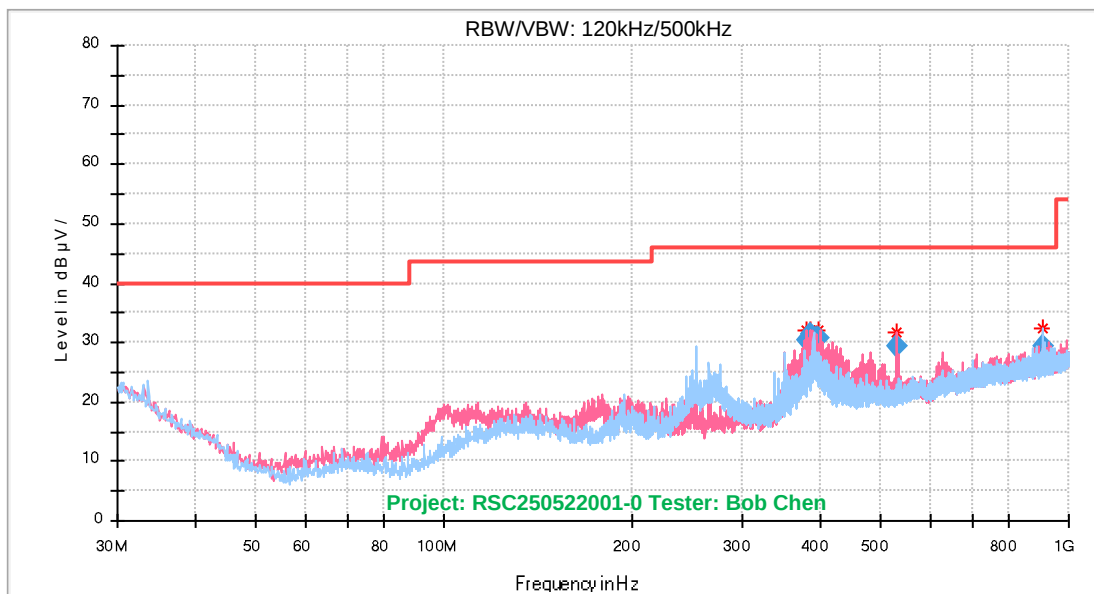
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
0.538050	45.85	72.99	27.14	0.0
0.585810	45.85	72.25	26.40	-0.7
0.938040	43.01	68.18	25.16	-4.0
1.164900	38.72	66.30	27.58	-5.1
1.606680	34.59	63.51	28.92	-6.6
1.702200	32.63	63.01	30.38	-6.8

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

3) 30 MHz to 1 GHz_100k high channel_ maximum transmitting power mode

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
379.719080	30.52	46.00	15.48	1000.0	120.000	155.0	V	0.0	-9.8
386.864800	31.23	46.00	14.77	1000.0	120.000	165.0	V	203.0	-9.6
394.489020	30.85	46.00	15.15	1000.0	120.000	172.0	V	186.0	-9.4
398.314360	30.75	46.00	15.25	1000.0	120.000	127.0	V	199.0	-9.3
531.718280	29.25	46.00	16.75	1000.0	120.000	127.0	V	262.0	-6.6
908.019700	29.39	46.00	16.61	1000.0	120.000	103.0	H	78.0	-0.7

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

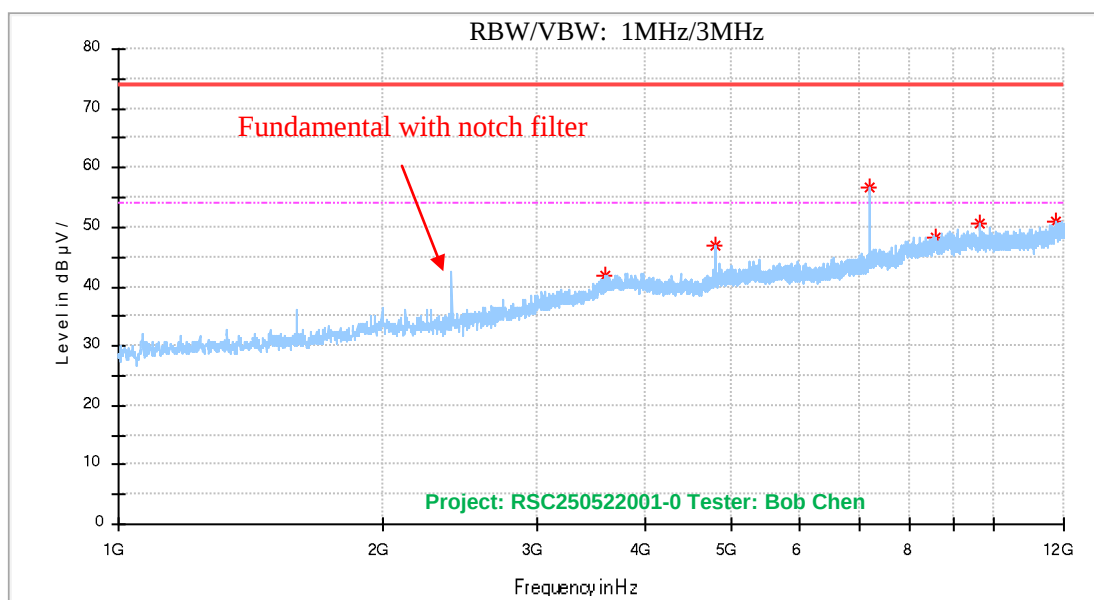
Margin = Limit- Corr. Amplitude

4) 1GHz-12GHz

Note: If the peak detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

100k

Low Channel_Horizontal



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
3590.500000	41.69	---	74.00	32.31	H	-6.4
3590.500000	---	34.62	54.00	19.38	H	-6.4
4804.900000	---	42.66	54.00	11.34	H	-5.1
4804.900000	46.84	---	74.00	27.16	H	-5.1
7206.200000	---	48.41	54.00	5.59	H	-2.2
7206.200000	56.80	---	74.00	17.20	H	-2.2
8555.900000	---	39.83	54.00	14.17	H	1.1
8555.900000	48.21	---	74.00	25.79	H	1.1
9608.600000	50.76	---	74.00	23.24	H	1.4
9608.600000	---	42.34	54.00	11.66	H	1.4
11755.800000	50.89	---	74.00	23.11	H	3.9
11755.800000	---	41.96	54.00	12.04	H	3.9

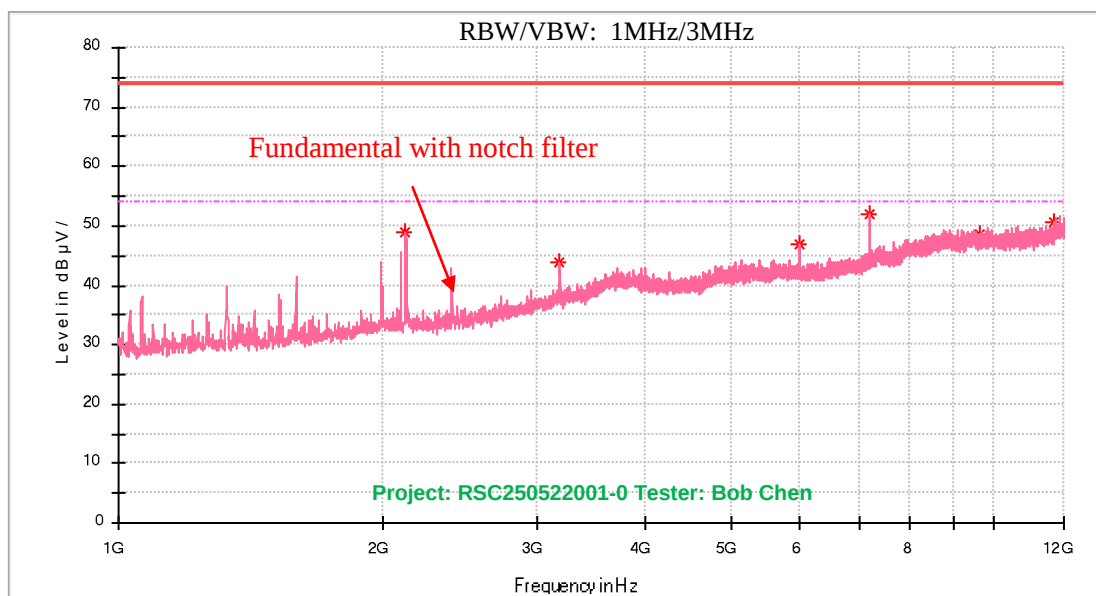
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Low Channel_Vertical



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
3590.500000	41.69	---	74.00	32.31	H	-6.4
3590.500000	---	34.62	54.00	19.38	H	-6.4
4804.900000	---	42.66	54.00	11.34	H	-5.1
4804.900000	46.84	---	74.00	27.16	H	-5.1
7206.200000	---	48.41	54.00	5.59	H	-2.2
7206.200000	56.80	---	74.00	17.20	H	-2.2
8555.900000	---	39.83	54.00	14.17	H	1.1
8555.900000	48.21	---	74.00	25.79	H	1.1
9608.600000	50.76	---	74.00	23.24	H	1.4
9608.600000	---	42.34	54.00	11.66	H	1.4
11755.800000	50.89	---	74.00	23.11	H	3.9
11755.800000	---	41.96	54.00	12.04	H	3.9

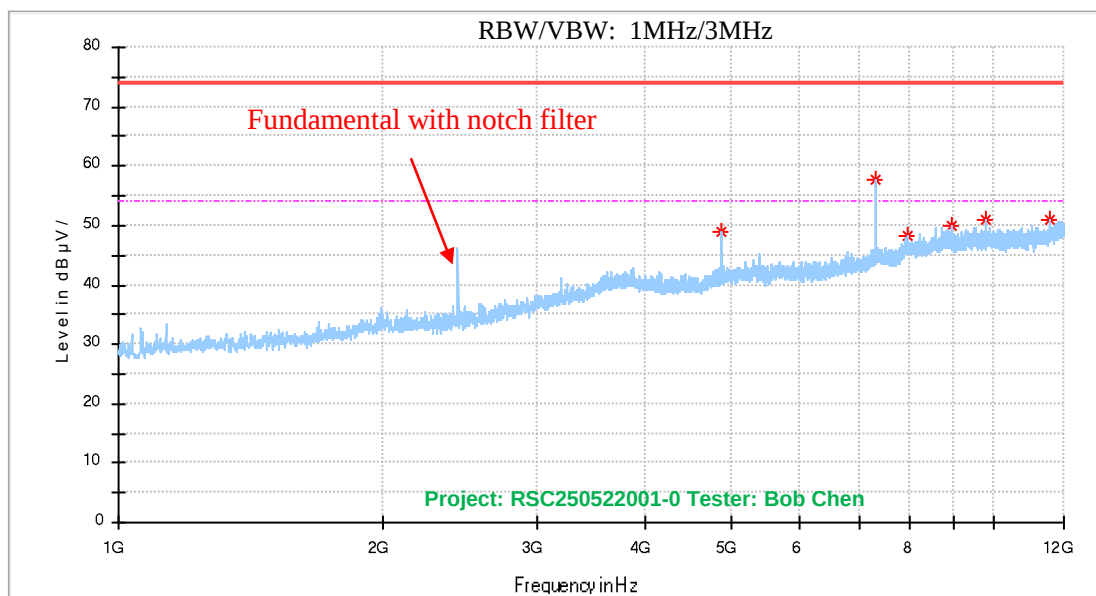
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Middle Channel_Horizontal



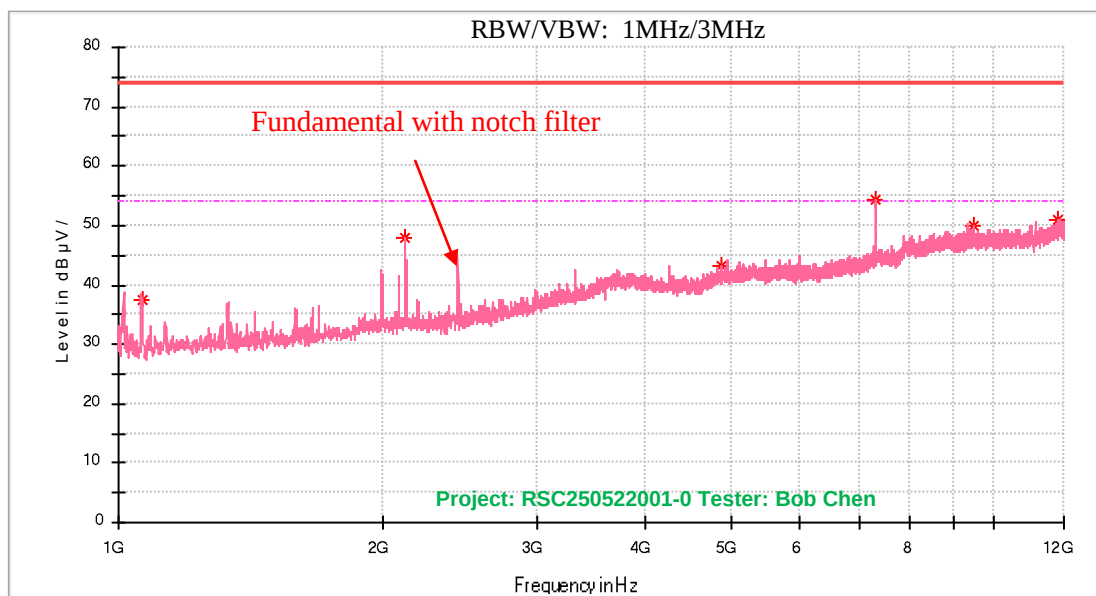
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
4879.700000	48.79	---	74.00	25.21	-5.1
4879.700000	---	42.57	54.00	11.43	-5.1
7319.500000	57.86	---	74.00	16.14	-1.5
7319.500000	---	50.55	54.00	3.45	-1.5
7950.900000	48.17	---	74.00	25.83	0.2
7950.900000	---	38.34	54.00	15.66	0.2
8920.000000	49.85	---	74.00	24.15	1.3
8920.000000	---	40.31	54.00	13.69	1.3
9760.400000	51.11	---	74.00	22.89	1.6
9760.400000	---	42.49	54.00	11.51	1.6
11556.700000	51.04	---	74.00	22.96	2.7
11556.700000	---	42.60	54.00	11.40	2.7

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor= Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Middle Channel_Vertical

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
1062.700000	37.53	---	74.00	36.47	-18.7
1062.700000	---	29.57	54.00	24.43	-18.7
2126.400000	47.81	---	74.00	26.19	-13.7
2126.400000	---	31.02	54.00	22.98	-13.7
4876.400000	43.20	---	74.00	30.80	-5.1
4876.400000	---	34.41	54.00	19.59	-5.1
7319.500000	---	45.96	54.00	8.04	-1.5
7319.500000	54.18	---	74.00	19.82	-1.5
9490.900000	49.84	---	74.00	24.16	1.9
9490.900000	---	40.17	54.00	13.83	1.9
11824.000000	---	41.94	54.00	12.06	4.0
11824.000000	50.93	---	74.00	23.07	4.0

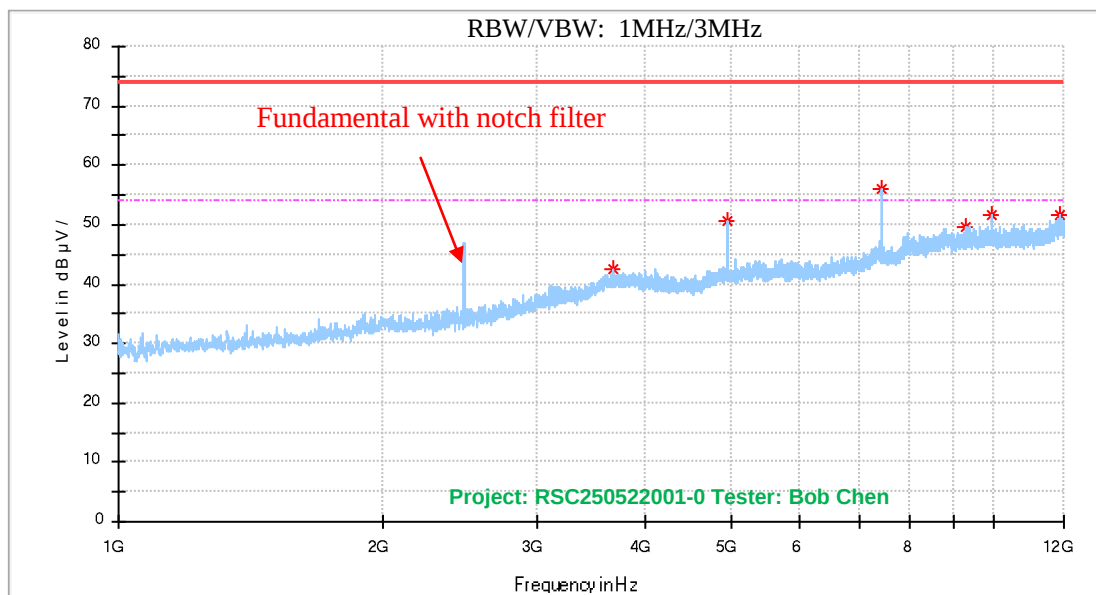
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit - Corr. Amplitude

High Channel_Horizontal



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Corr. (dB)
3662.000000	---	35.55	54.00	18.45	-6.1
3662.000000	42.39	---	74.00	31.61	-6.1
4961.100000	---	44.89	54.00	9.11	-4.7
4961.100000	50.55	---	74.00	23.45	-4.7
7439.400000	56.17	---	74.00	17.83	-1.5
7439.400000	---	48.09	54.00	5.91	-1.5
9294.000000	49.58	---	74.00	24.42	1.7
9294.000000	---	40.17	54.00	13.83	1.7
9918.800000	51.79	---	74.00	22.21	1.3
9918.800000	---	42.16	54.00	11.84	1.3
11884.500000	---	41.79	54.00	12.21	4.2
11884.500000	51.66	---	74.00	22.34	4.2

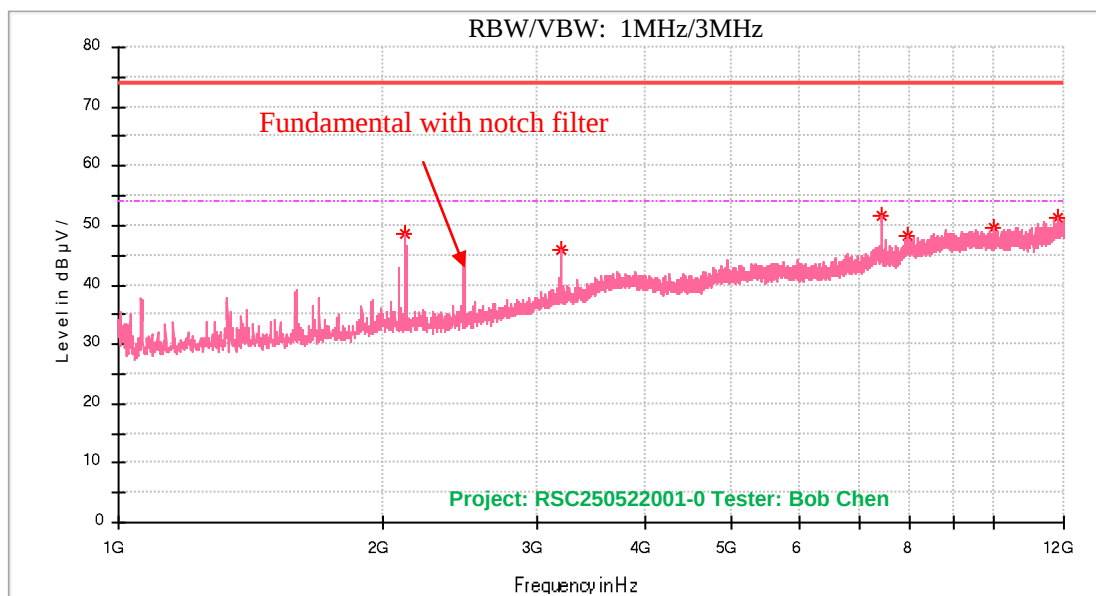
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

High Channel_Vertical



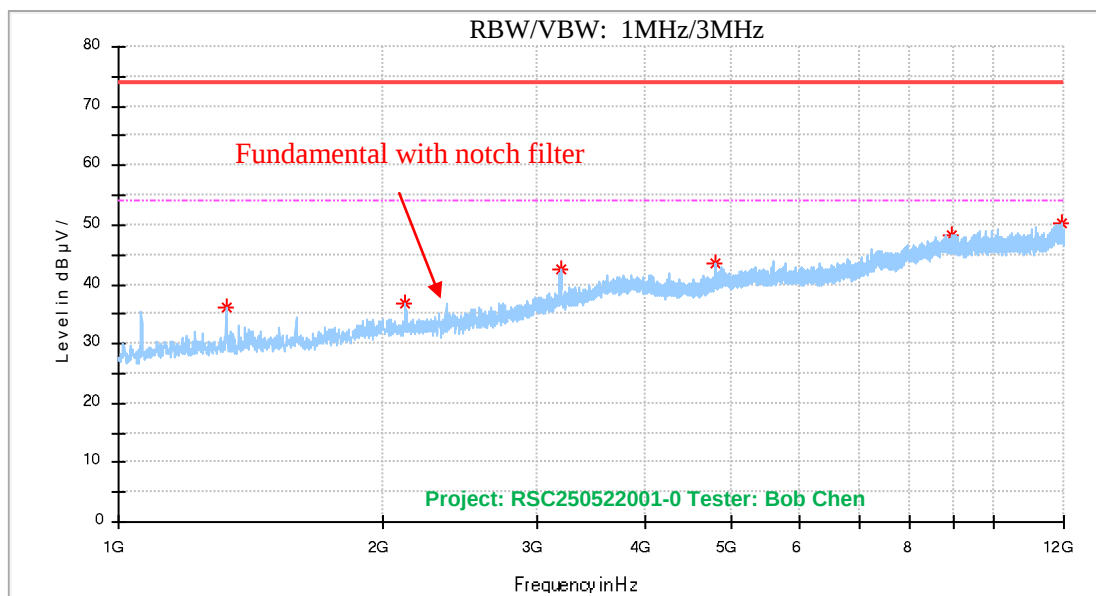
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2126.400000	---	34.03	54.00	19.97	V	-13.7
2126.400000	48.54	---	74.00	25.46	V	-13.7
3196.700000	45.86	---	74.00	28.14	V	-9.0
3196.700000	---	37.86	54.00	16.14	V	-9.0
7440.500000	51.61	---	74.00	22.39	V	-1.5
7440.500000	---	45.20	54.00	8.80	V	-1.5
7954.200000	48.13	---	74.00	25.87	V	0.2
7954.200000	---	38.88	54.00	15.12	V	0.2
9994.700000	---	39.00	54.00	15.00	V	1.6
9994.700000	49.61	---	74.00	24.39	V	1.6
11841.600000	51.38	---	74.00	22.62	V	4.2
11841.600000	---	41.69	54.00	12.31	V	4.2

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

1M**Low Channel_Horizontal**

Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1325.600000	36.23	---	74.00	37.77	H	-17.3
1325.600000	---	26.11	54.00	27.89	H	-17.3
2126.400000	36.95	---	74.00	37.05	H	-13.7
2126.400000	---	25.21	54.00	28.79	H	-13.7
3194.500000	42.41	---	74.00	31.59	H	-8.9
3194.500000	---	30.25	54.00	23.75	H	-8.9
4803.800000	---	35.91	54.00	18.09	H	-5.1
4803.800000	43.39	---	74.00	30.61	H	-5.1
8918.900000	---	39.55	54.00	14.45	H	1.3
8918.900000	48.23	---	74.00	25.77	H	1.3
11921.900000	---	41.17	54.00	12.83	H	4.3
11921.900000	50.34	---	74.00	23.66	H	4.3

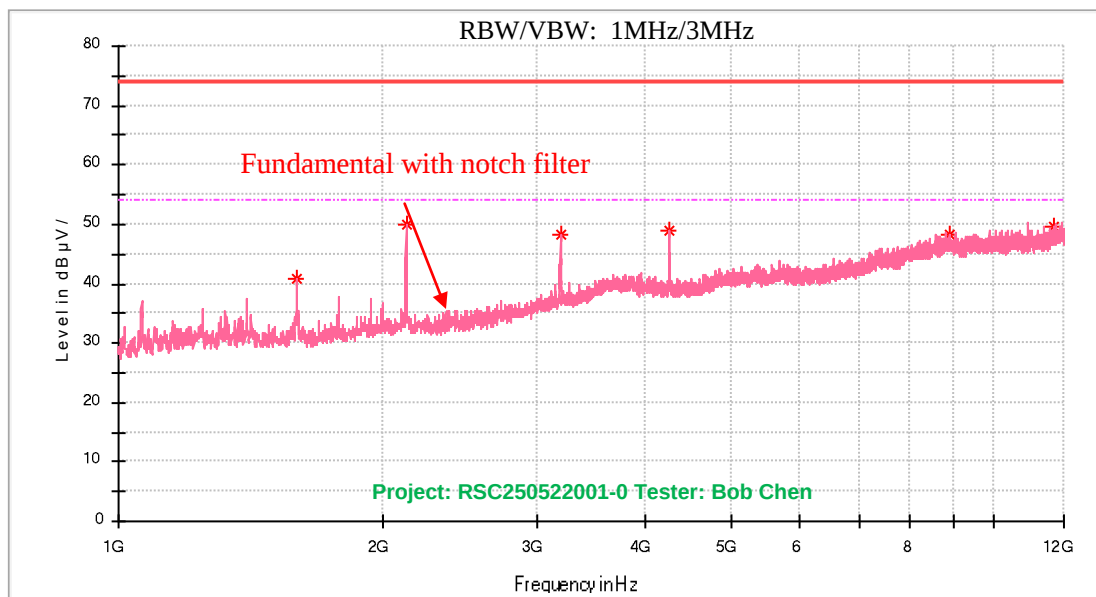
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Low Channel_Vertical



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1597.300000	---	29.72	54.00	24.28	V	-16.3
1597.300000	40.85	---	74.00	33.15	V	-16.3
2129.700000	50.11	---	74.00	23.89	V	-13.7
2129.700000	---	31.52	54.00	22.48	V	-13.7
3193.400000	---	33.17	54.00	20.83	V	-9.0
3193.400000	48.22	---	74.00	25.78	V	-9.0
4262.600000	48.83	---	74.00	25.17	V	-6.7
4262.600000	---	34.17	54.00	19.83	V	-6.7
8868.300000	---	39.18	54.00	14.82	V	1.5
8868.300000	48.27	---	74.00	25.73	V	1.5
11689.800000	49.70	---	74.00	24.30	V	3.0
11689.800000	---	41.51	54.00	12.49	V	3.0

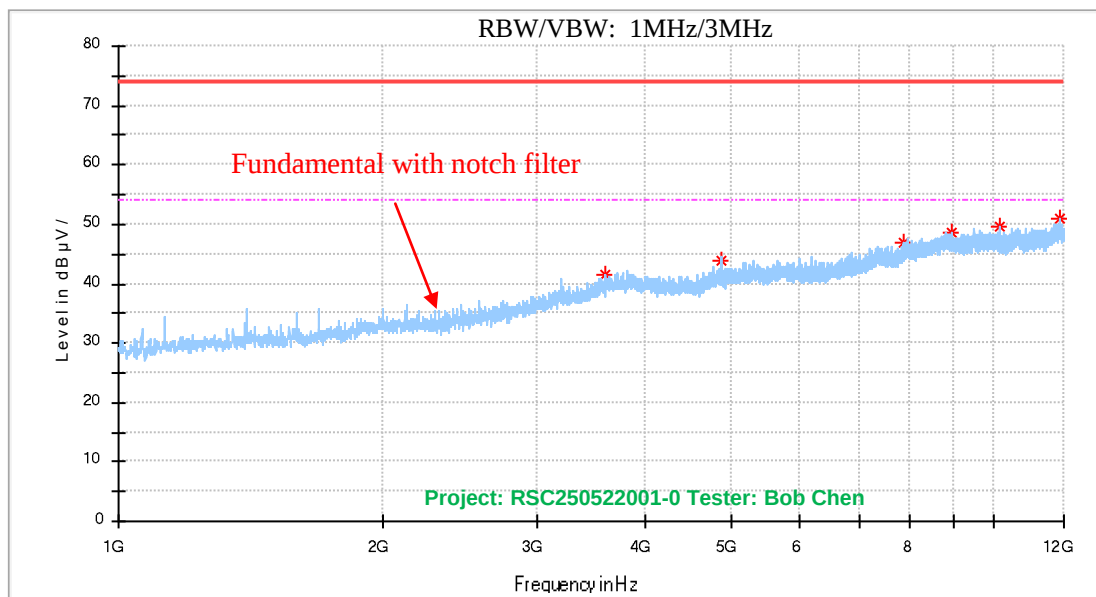
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Middle Channel_Horizontal



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
3587.200000	41.46	---	74.00	32.54	H	-6.4
3587.200000	---	34.11	54.00	19.89	H	-6.4
4881.900000	---	37.27	54.00	16.73	H	-5.1
4881.900000	44.04	---	74.00	29.96	H	-5.1
7866.200000	47.04	---	74.00	26.96	H	-0.4
7866.200000	---	37.83	54.00	16.17	H	-0.4
8920.000000	---	40.53	54.00	13.47	H	1.3
8920.000000	48.75	---	74.00	25.25	H	1.3
10120.100000	---	40.39	54.00	13.61	H	1.7
10120.100000	49.46	---	74.00	24.54	H	1.7
11881.200000	---	41.49	54.00	12.51	H	4.2
11881.200000	51.06	---	74.00	22.94	H	4.2

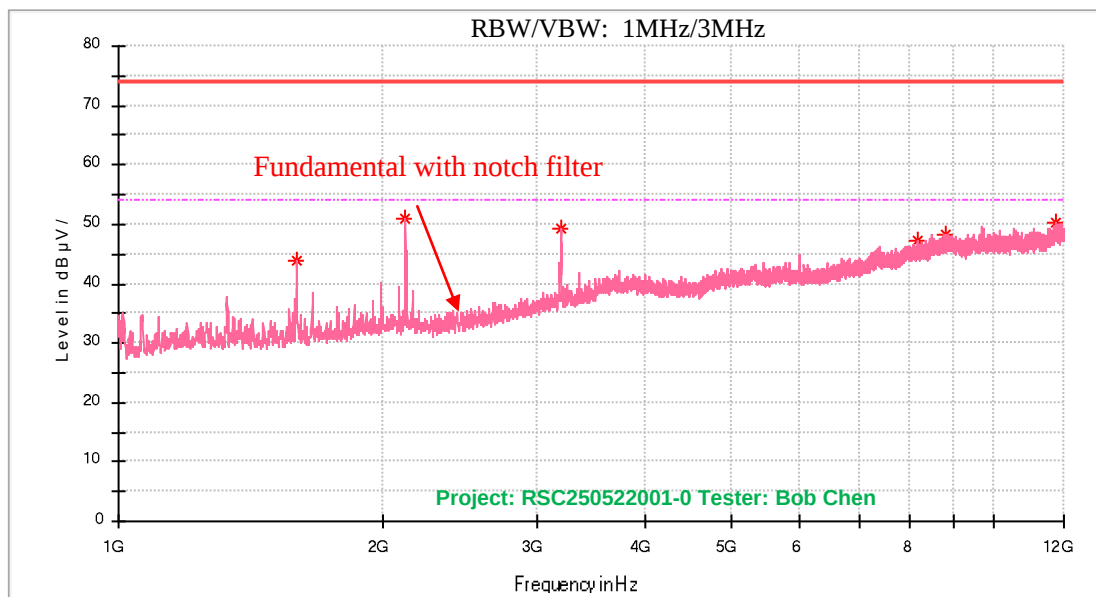
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit - Corr. Amplitude

Middle Channel_Vertical



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
1595.100000	---	31.17	54.00	22.83	V	-16.3
1595.100000	43.96	---	74.00	30.04	V	-16.3
2128.600000	50.99	---	74.00	23.01	V	-13.7
2128.600000	---	35.78	54.00	18.22	V	-13.7
3197.800000	---	33.92	54.00	20.08	V	-9.0
3197.800000	49.41	---	74.00	24.59	V	-9.0
8185.200000	47.24	---	74.00	26.76	V	0.2
8185.200000	---	38.43	54.00	15.57	V	0.2
8804.500000	48.27	---	74.00	25.73	V	1.7
8804.500000	---	39.72	54.00	14.28	V	1.7
11761.300000	---	41.05	54.00	12.95	V	3.8
11761.300000	50.15	---	74.00	23.85	V	3.8

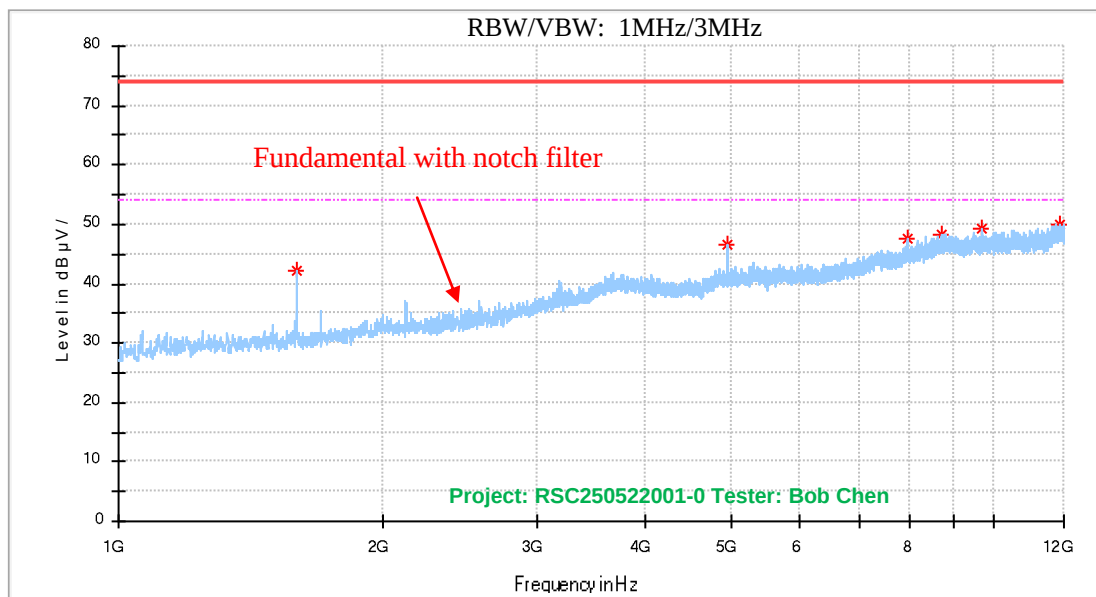
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

High Channel_Horizontal



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1596.200000	---	26.87	54.00	27.13	H	-16.3
1596.200000	42.33	---	74.00	31.67	H	-16.3
4956.700000	---	38.80	54.00	15.20	H	-4.7
4956.700000	46.74	---	74.00	27.26	H	-4.7
7945.400000	47.72	---	74.00	26.28	H	0.1
7945.400000	---	38.12	54.00	15.88	H	0.1
8706.600000	48.29	---	74.00	25.71	H	1.6
8706.600000	---	39.59	54.00	14.41	H	1.6
9695.500000	49.21	---	74.00	24.79	H	1.7
9695.500000	---	40.03	54.00	13.97	H	1.7
11884.500000	---	41.06	54.00	12.94	H	4.2
11884.500000	50.00	---	74.00	24.00	H	4.2

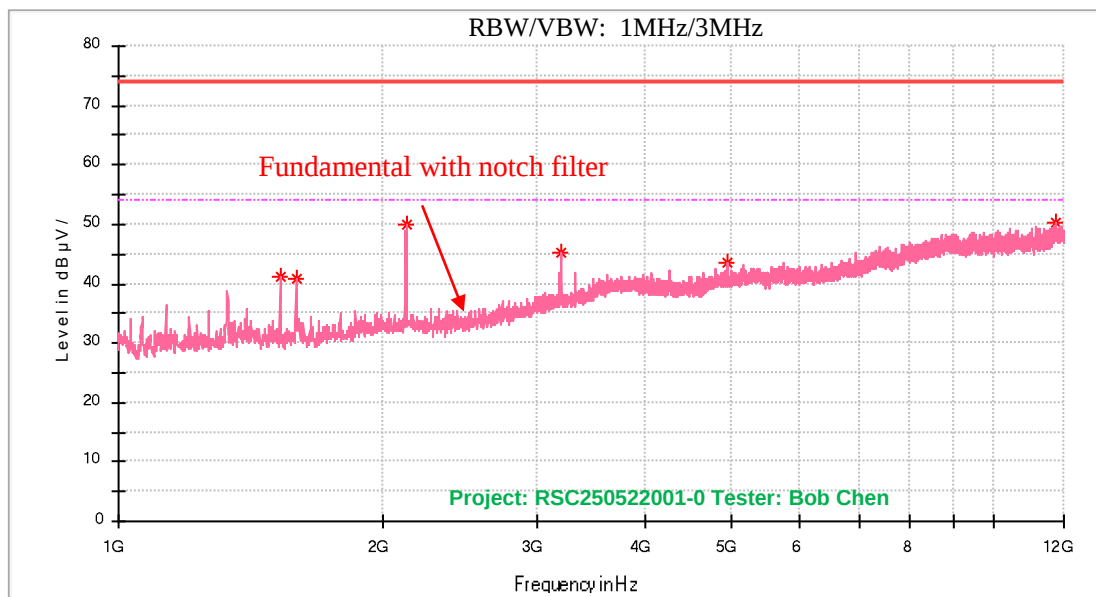
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

High Channel_Vertical



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
1529.100000	41.14	---	74.00	32.86	V	-16.7
1529.100000	---	28.63	54.00	25.37	V	-16.7
1594.000000	---	29.36	54.00	24.64	V	-16.3
1594.000000	40.94	---	74.00	33.06	V	-16.3
2130.800000	---	36.86	54.00	17.14	V	-13.7
2130.800000	49.87	---	74.00	24.13	V	-13.7
3200.000000	---	30.98	54.00	23.02	V	-9.0
3200.000000	45.07	---	74.00	28.93	V	-9.0
4956.700000	---	36.48	54.00	17.52	V	-4.7
4956.700000	43.44	---	74.00	30.56	V	-4.7
11755.800000	50.21	---	74.00	23.79	V	3.9
11755.800000	---	41.07	54.00	12.93	V	3.9

Note:

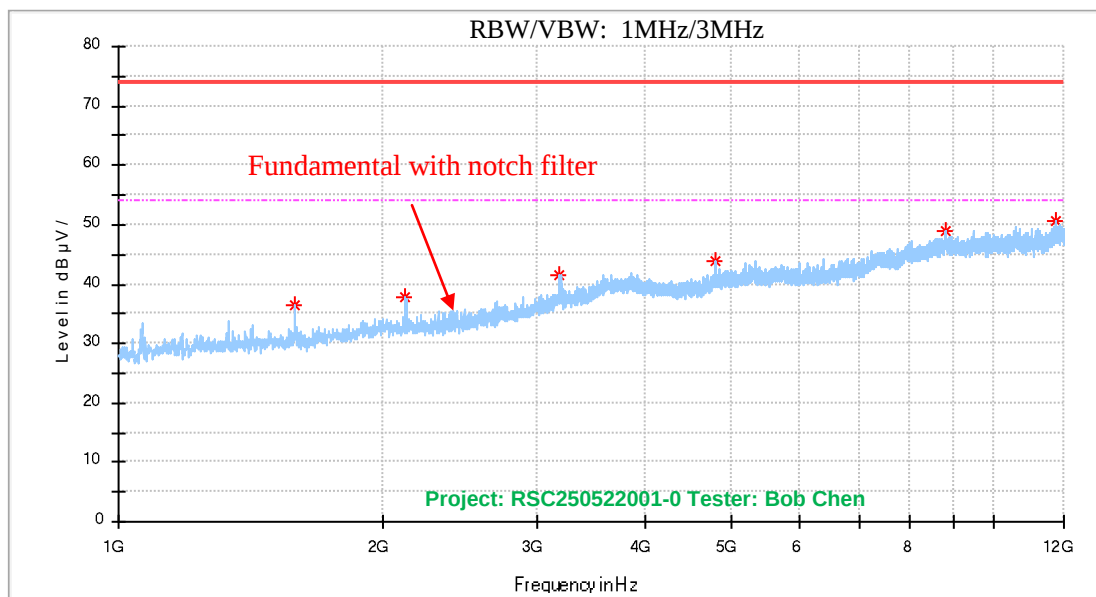
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

2M

Low Channel_Horizontal



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1591.800000	36.32	---	74.00	37.68	H	-16.4
1591.800000	---	25.37	54.00	28.63	H	-16.4
2126.400000	37.80	---	74.00	36.20	H	-13.7
2126.400000	---	27.71	54.00	26.29	H	-13.7
3185.700000	41.46	---	74.00	32.54	H	-9.0
3185.700000	---	29.50	54.00	24.50	H	-9.0
4801.600000	---	36.60	54.00	17.40	H	-5.1
4801.600000	43.82	---	74.00	30.18	H	-5.1
8793.500000	48.95	---	74.00	25.05	H	1.2
8793.500000	---	39.57	54.00	14.43	H	1.2
11756.900000	---	41.08	54.00	12.92	H	3.9
11756.900000	50.70	---	74.00	23.30	H	3.9

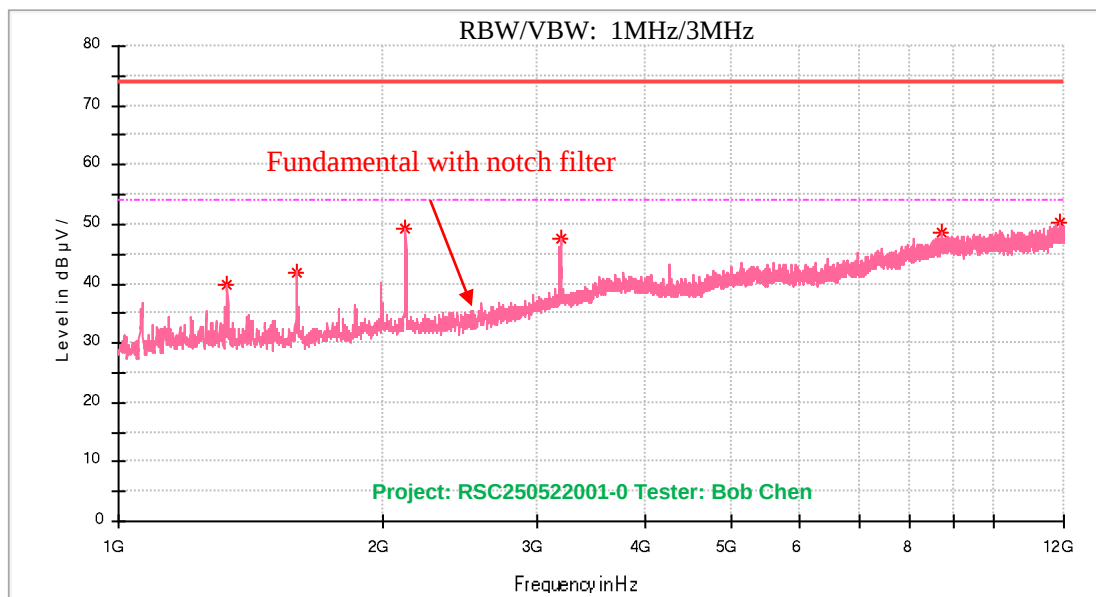
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Low Channel_Vertical



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1332.200000	---	29.60	54.00	24.40	V	-17.3
1332.200000	39.74	---	74.00	34.26	V	-17.3
1599.500000	---	30.91	54.00	23.09	V	-16.3
1599.500000	41.73	---	74.00	32.27	V	-16.3
2128.600000	---	33.73	54.00	20.27	V	-13.7
2128.600000	49.40	---	74.00	24.60	V	-13.7
3196.700000	47.51	---	74.00	26.49	V	-9.0
3196.700000	---	32.60	54.00	21.40	V	-9.0
8704.400000	48.44	---	74.00	25.56	V	1.6
8704.400000	---	39.60	54.00	14.40	V	1.6
11854.800000	---	40.87	54.00	13.13	V	4.3
11854.800000	50.35	---	74.00	23.65	V	4.3

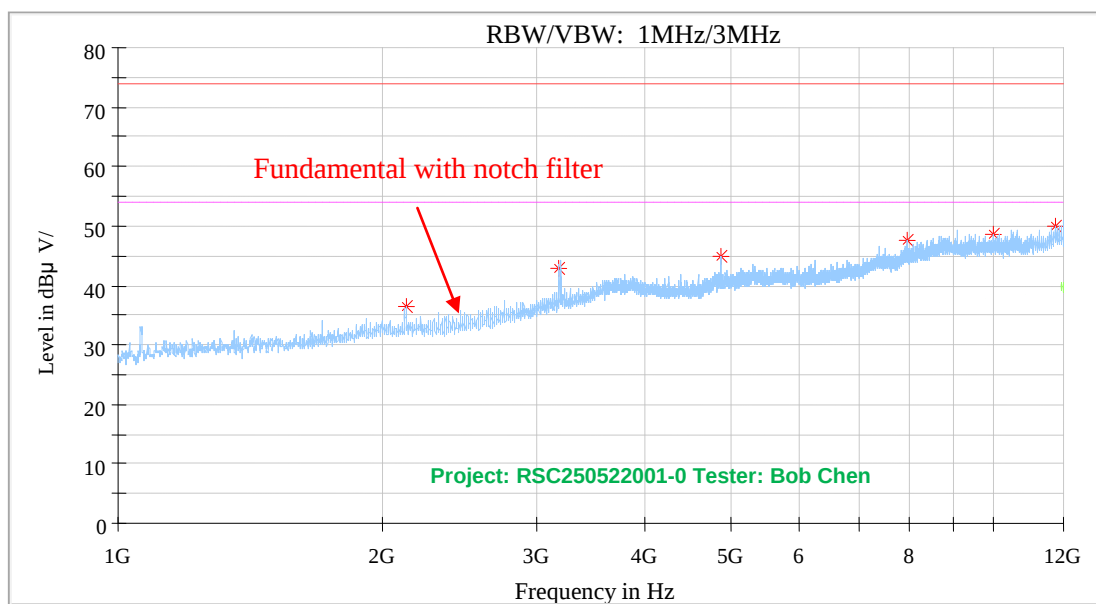
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Middle Channel_Horizontal



Frequency (MHz)	MaxPeak (dBμ V/m)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2131.900000	---	26.65	54.00	27.35	H	-13.7
2131.900000	36.57	---	74.00	37.43	H	-13.7
3192.300000	42.98	---	74.00	31.02	H	-9.0
3192.300000	---	31.66	54.00	22.34	H	-9.0
4876.400000	44.91	---	74.00	29.09	H	-5.1
4876.400000	---	35.78	54.00	18.22	H	-5.1
7950.900000	---	38.42	54.00	15.58	H	0.2
7950.900000	47.67	---	74.00	26.33	H	0.2
9963.900000	48.73	---	74.00	25.27	H	1.4
9963.900000	---	39.28	54.00	14.72	H	1.4
11767.900000	---	41.34	54.00	12.66	H	3.8
11767.900000	49.86	---	74.00	24.14	H	3.8

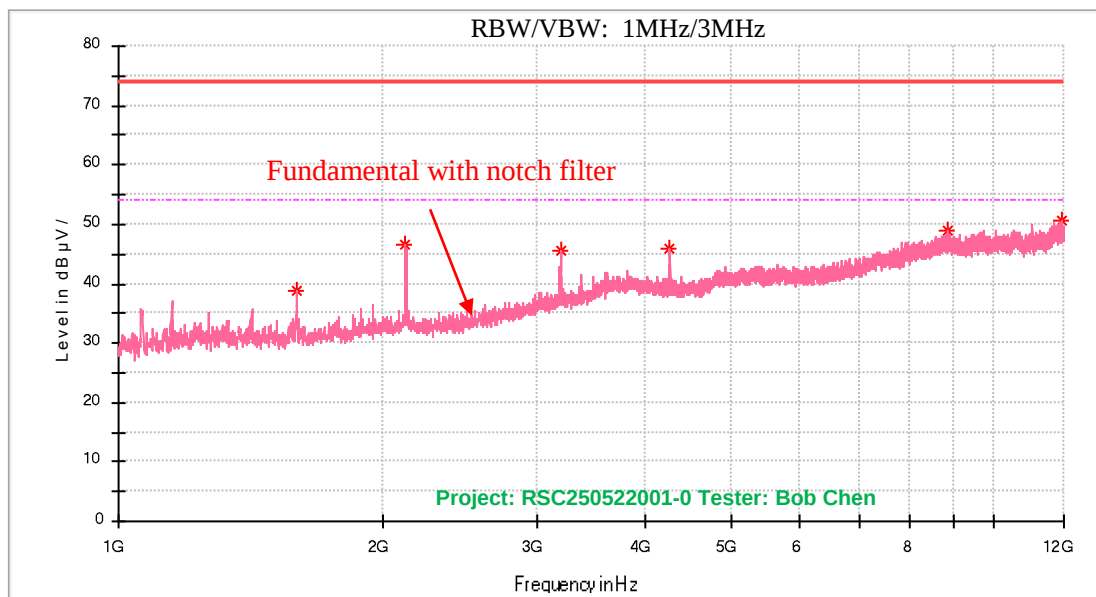
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Middle Channel_Vertical



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1597.300000	---	29.06	54.00	24.94	V	-16.3
1597.300000	38.97	---	74.00	35.03	V	-16.3
2126.400000	46.50	---	74.00	27.50	V	-13.7
2126.400000	---	28.56	54.00	25.44	V	-13.7
3195.600000	---	33.27	54.00	20.73	V	-9.0
3195.600000	45.52	---	74.00	28.48	V	-9.0
4264.800000	45.95	---	74.00	28.05	V	-6.7
4264.800000	---	32.79	54.00	21.21	V	-6.7
8834.200000	48.93	---	74.00	25.07	V	1.6
8834.200000	---	39.05	54.00	14.95	V	1.6
11935.100000	---	40.82	54.00	13.18	V	4.4
11935.100000	50.51	---	74.00	23.49	V	4.4

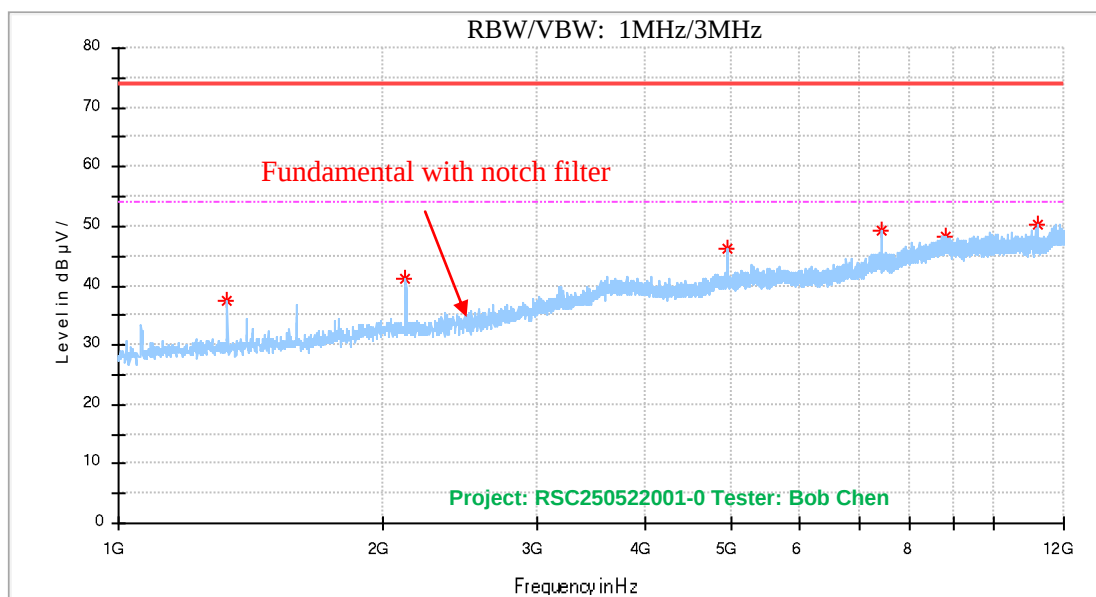
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

High Channel_Horizontal



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
1332.200000	---	22.80	54.00	31.20	H	-17.3
1332.200000	37.56	---	74.00	36.44	H	-17.3
2128.600000	41.12	---	74.00	32.88	H	-13.7
2128.600000	---	28.14	54.00	25.86	H	-13.7
4956.700000	---	39.60	54.00	14.40	H	-4.7
4956.700000	46.17	---	74.00	27.83	H	-4.7
7439.400000	49.34	---	74.00	24.66	H	-1.5
7439.400000	---	40.26	54.00	13.74	H	-1.5
8817.700000	48.20	---	74.00	25.80	H	1.7
8817.700000	---	39.42	54.00	14.58	H	1.7
11178.300000	---	40.96	54.00	13.04	H	2.5
11178.300000	50.20	---	74.00	23.80	H	2.5

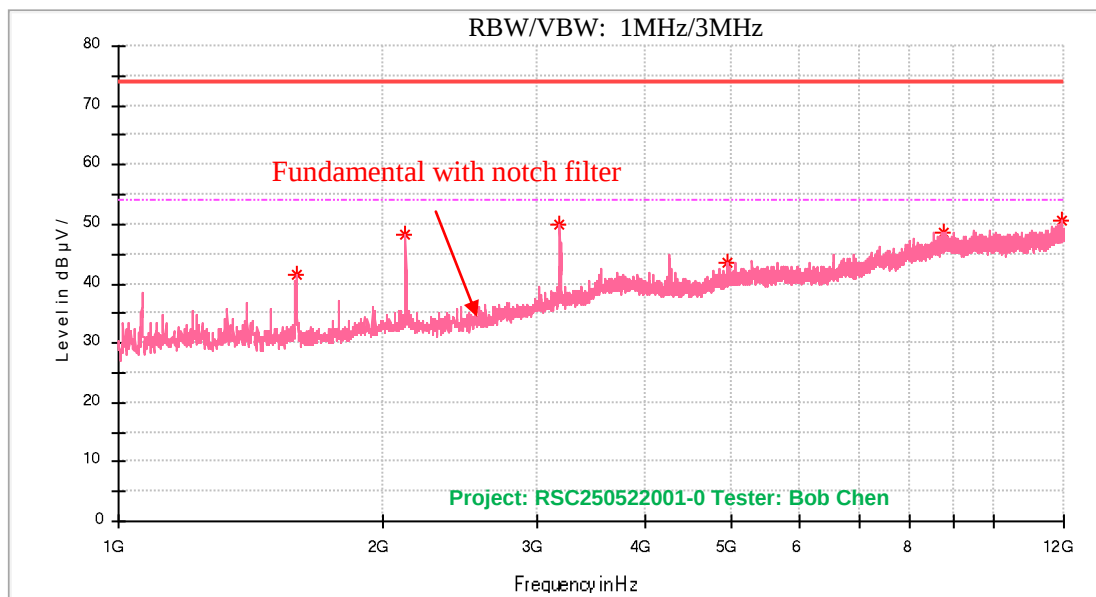
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit - Corr. Amplitude

High Channel_Vertical



Frequency (MHz)	MaxPeak (dBμ V/m)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
1595.100000	---	26.29	54.00	27.71	V	-16.3
1595.100000	41.40	---	74.00	32.60	V	-16.3
2128.600000	---	32.35	54.00	21.65	V	-13.7
2128.600000	48.17	---	74.00	25.83	V	-13.7
3192.300000	49.98	---	74.00	24.02	V	-9.0
3192.300000	---	33.93	54.00	20.07	V	-9.0
4956.700000	43.59	---	74.00	30.41	V	-4.7
4956.700000	---	37.67	54.00	16.33	V	-4.7
8733.000000	---	38.90	54.00	15.10	V	1.5
8733.000000	48.59	---	74.00	25.41	V	1.5
11935.100000	---	41.38	54.00	12.62	V	4.4
11935.100000	50.69	---	74.00	23.31	V	4.4

Note:

Corrected Amplitude = Corrected Factor + Reading

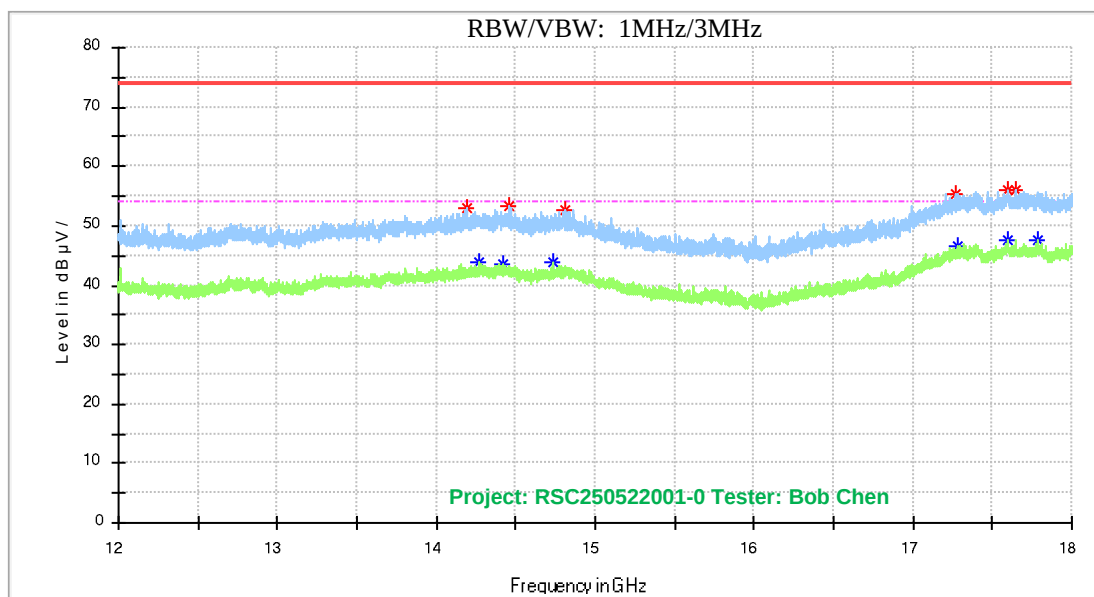
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

5) 12GHz-18GHz_100k_low channel_ maximum transmitting power mode

Note: If the peak detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Horizontal



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
14192.400000	52.96	---	74.00	21.04	H	7.2
14271.600000	---	44.03	54.00	9.97	H	7.1
14424.000000	---	43.38	54.00	10.62	H	7.2
14455.800000	53.21	---	74.00	20.79	H	7.2
14729.400000	---	43.75	54.00	10.25	H	7.3
14810.400000	52.81	---	74.00	21.19	H	7.2
17274.000000	55.38	---	74.00	18.62	H	10.4
17282.400000	---	46.49	54.00	7.51	H	10.5
17599.800000	---	47.55	54.00	6.45	H	10.8
17602.800000	56.00	---	74.00	18.00	H	10.8
17646.000000	55.97	---	74.00	18.03	H	10.3
17789.400000	---	47.68	54.00	6.32	H	10.7

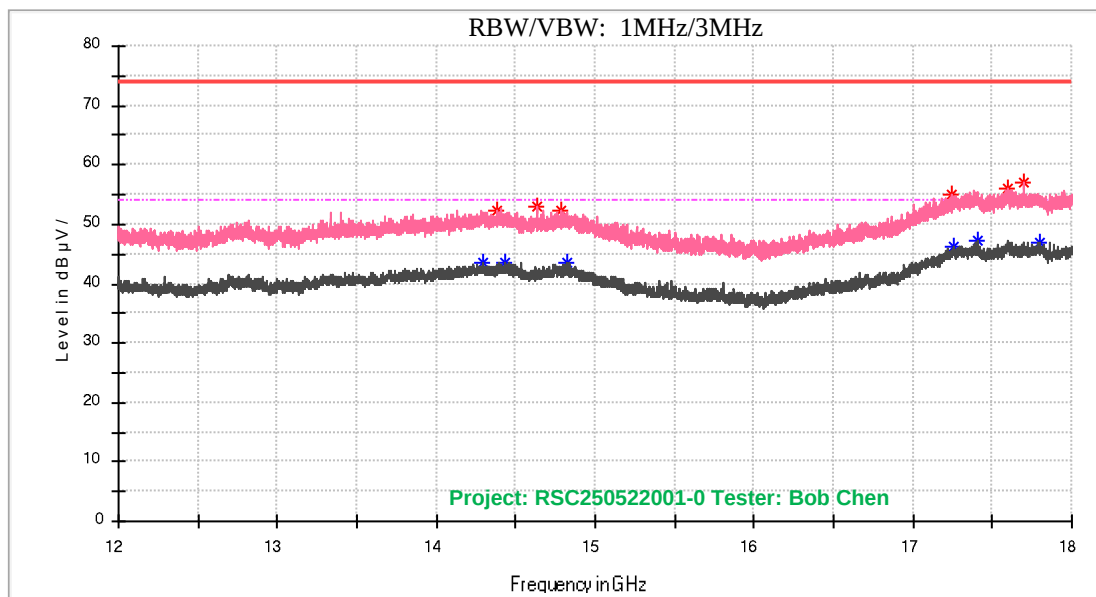
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Vertical



Frequency (MHz)	MaxPeak (dBµ V/m)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
14295.000000	---	43.43	54.00	10.57	V	7.1
14382.000000	52.43	---	74.00	21.57	V	7.0
14436.000000	---	43.57	54.00	10.43	V	7.2
14639.400000	52.88	---	74.00	21.12	V	7.7
14784.600000	52.19	---	74.00	21.81	V	7.2
14818.800000	---	43.55	54.00	10.45	V	7.2
17244.000000	54.89	---	74.00	19.11	V	10.3
17260.200000	---	46.36	54.00	7.64	V	10.3
17410.200000	---	47.30	54.00	6.70	V	10.8
17596.800000	56.04	---	74.00	17.96	V	10.8
17692.200000	57.05	---	74.00	16.95	V	10.5
17793.600000	---	46.85	54.00	7.15	V	10.7

Note:

Corrected Amplitude = Corrected Factor + Reading

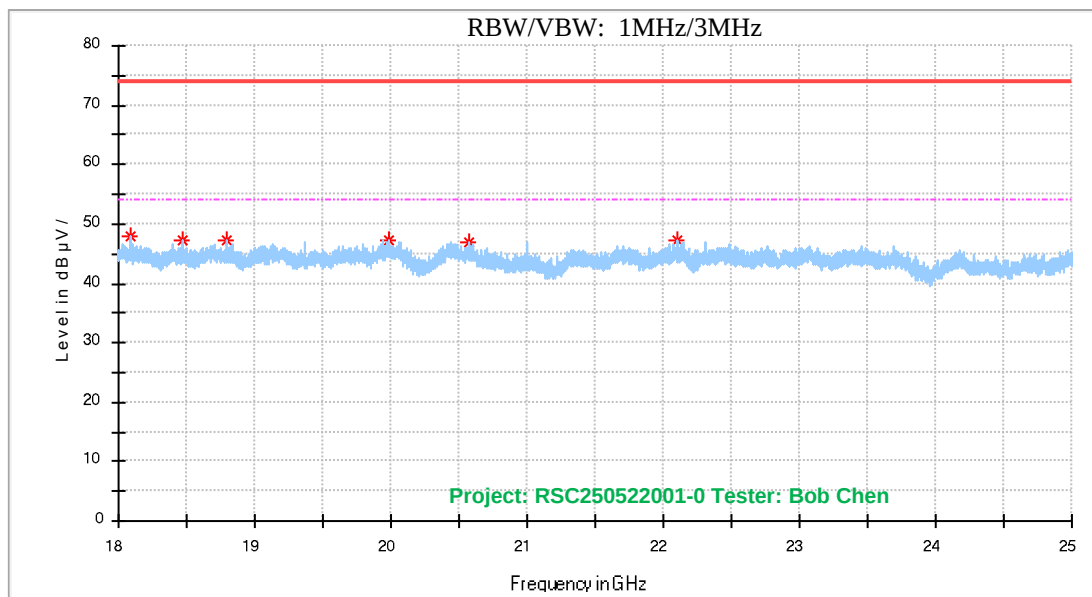
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

6) 18GHz-25GHz_100k_low channel_ maximum transmitting power mode

Note: If the peak detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Horizontal



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
18085.400000	---	37.86	54.00	16.14	H	-12.9
18085.400000	47.91	---	74.00	26.09	H	-12.9
18473.200000	47.30	---	74.00	26.70	H	-13.5
18473.200000	---	37.93	54.00	16.07	H	-13.5
18794.500000	47.21	---	74.00	26.79	H	-13.0
18794.500000	---	37.95	54.00	16.05	H	-13.0
19985.200000	47.20	---	74.00	26.80	H	-10.5
19985.200000	---	37.83	54.00	16.17	H	-10.5
20577.400000	46.98	---	74.00	27.02	H	-11.2
20577.400000	---	37.47	54.00	16.53	H	-11.2
22102.000000	---	37.40	54.00	16.60	H	-10.3
22102.000000	47.38	---	74.00	26.62	H	-10.3

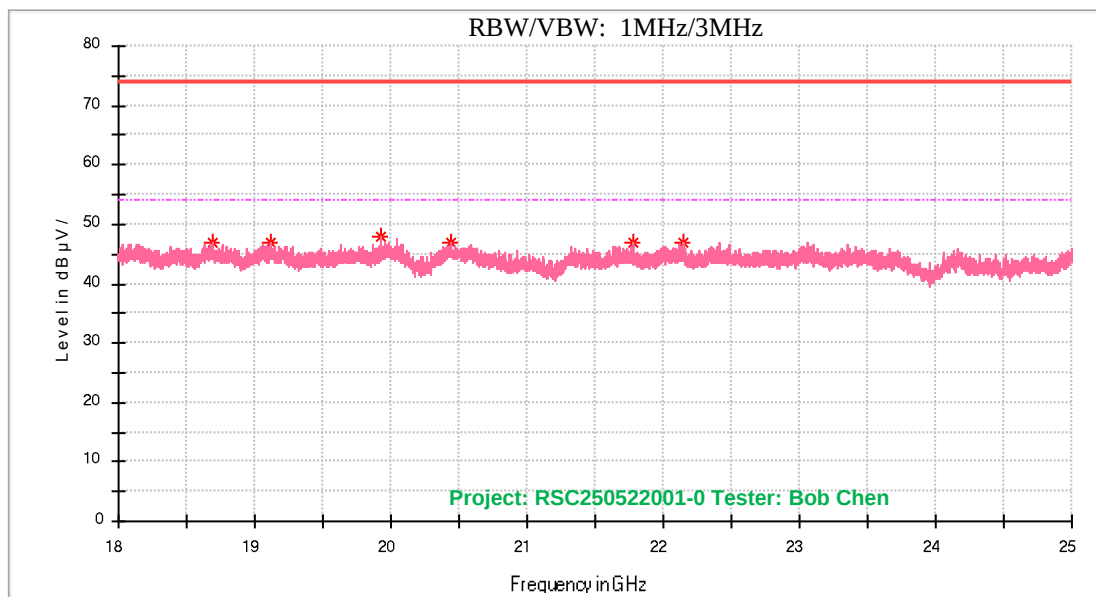
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Vertical



Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
19921.500000	---	37.68	54.00	16.32	V	-12.7
19921.500000	47.96	---	74.00	26.04	V	-12.7
18687.400000	---	37.67	54.00	16.33	V	-13.3
18687.400000	47.00	---	74.00	27.00	V	-13.3
19121.400000	---	37.81	54.00	16.19	V	-12.7
19121.400000	46.90	---	74.00	27.10	V	-12.7
20441.600000	46.91	---	74.00	27.09	V	-11.2
20441.600000	---	38.41	54.00	15.59	V	-11.2
21775.100000	---	38.07	54.00	15.93	V	-10.5
21775.100000	47.02	---	74.00	26.98	V	-10.5
22151.700000	47.08	---	74.00	26.92	V	-10.4
22151.700000	---	37.67	54.00	16.33	V	-10.4

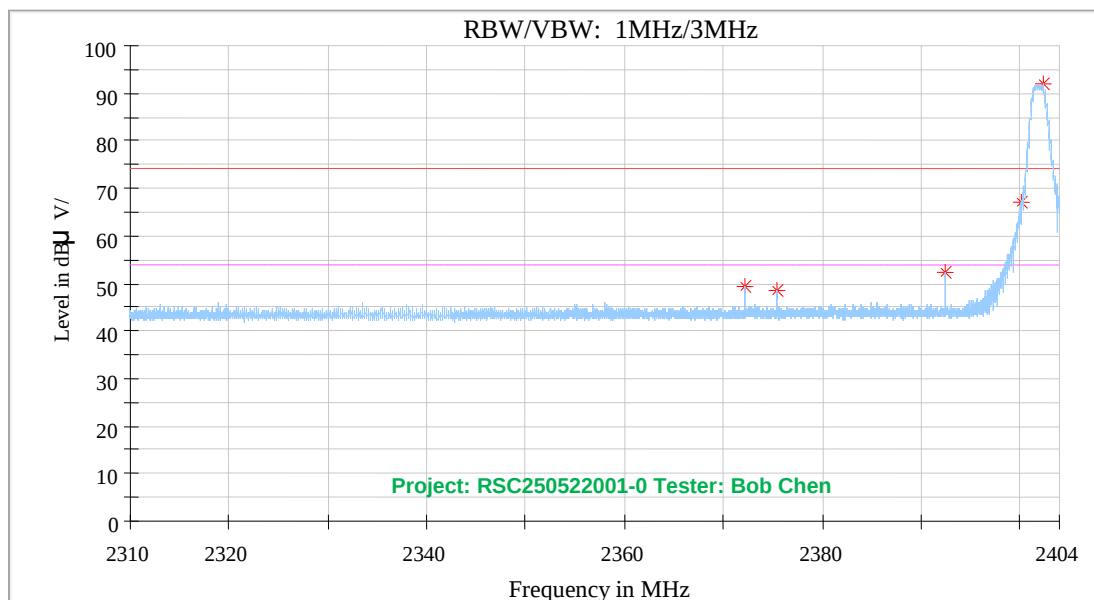
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

7) Band Edge

100k**Left_Horizontal_Peak**

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2372.134000	49.53	74.00	24.47	H	-3.2
2375.499200	48.48	74.00	25.52	H	-3.2
2392.438000	52.36	74.00	21.64	H	-3.0
2400.089600	67.09	---	---	H	-2.9
2402.317400	92.79	---	---	H	-2.9

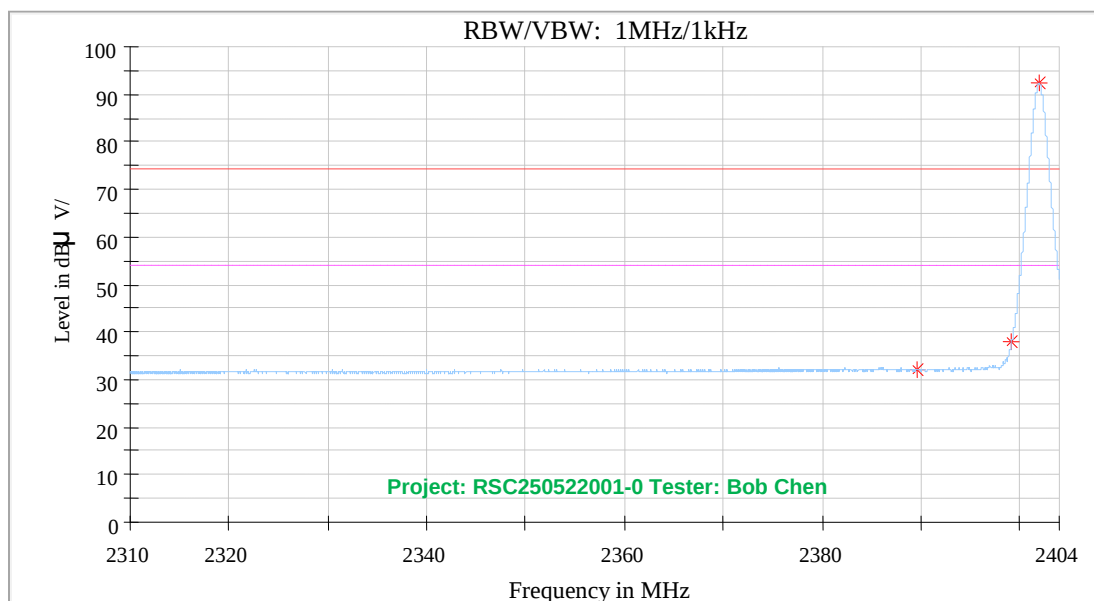
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Horizontal_Average



Frequency (MHz)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.655600	32.07	54.00	21.93	H	-3.0
2399.206000	37.84	54.00	16.16	H	-2.9
2401.997800	92.49	---	---	H	-2.9

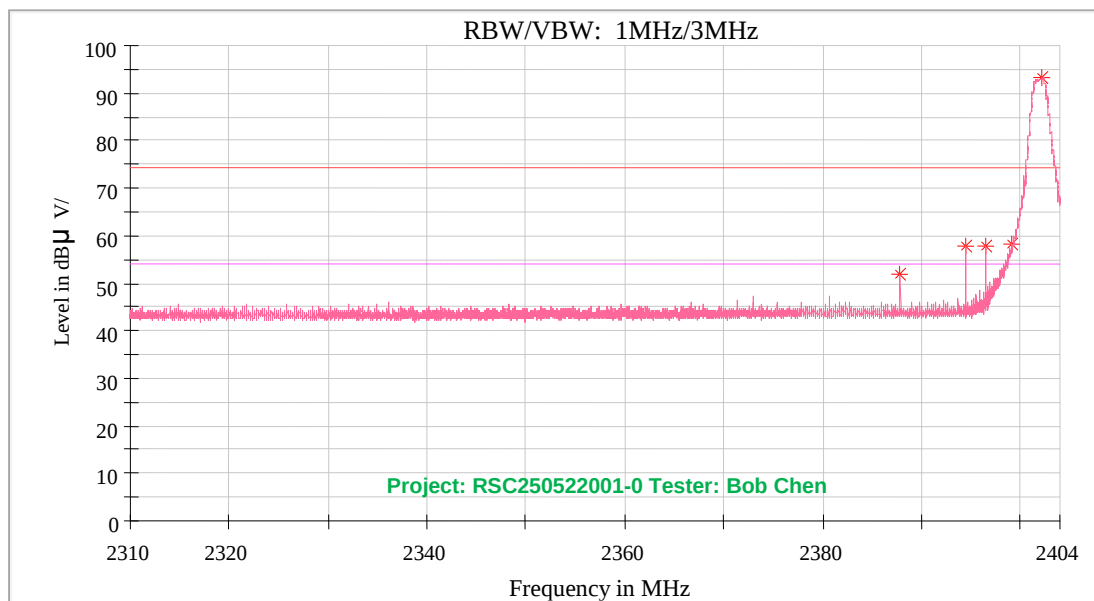
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Peak



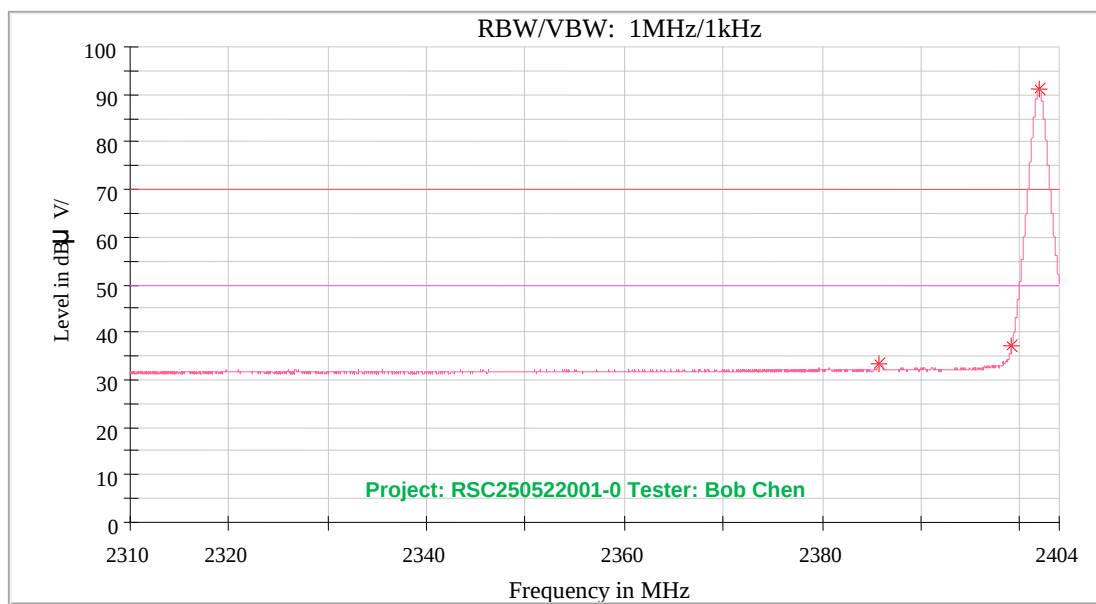
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2387.888400	51.99	74.00	22.01	V	-3.0
2394.459000	57.74	74.00	16.26	V	-3.0
2396.592800	57.94	74.00	16.06	V	-2.9
2399.177800	58.09	74.00	15.91	V	-2.9
2402.232800	93.07	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Average

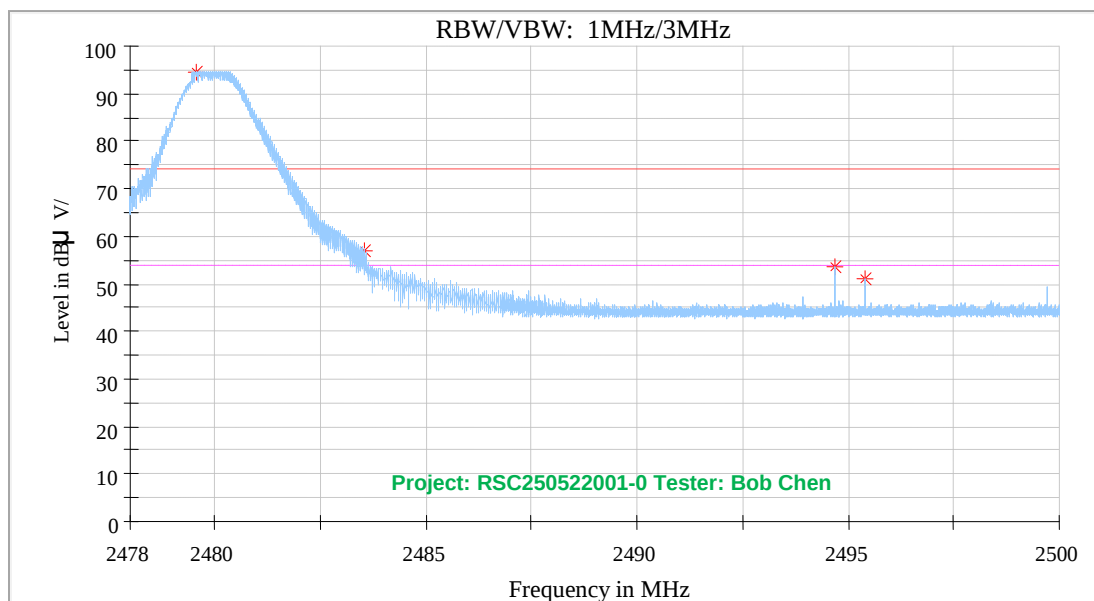
Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2385.829800	33.28	54.00	20.72	V	-3.1
2399.206000	37.16	54.00	16.84	V	-2.9
2401.997800	91.29	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_ Horizontal_Peak

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.544400	94.52	---	---	H	-3.0
2483.559400	56.86	74.00	17.14	H	-3.0
2494.702400	53.80	74.00	20.20	H	-3.0
2495.380000	50.99	74.00	23.01	H	-3.0

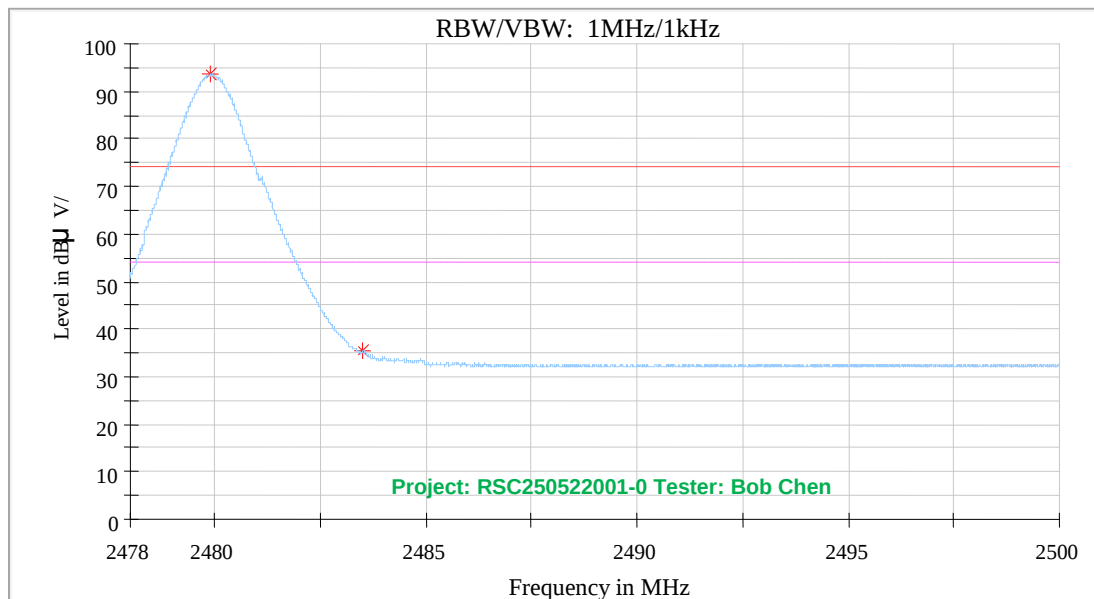
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Horizontal_Average



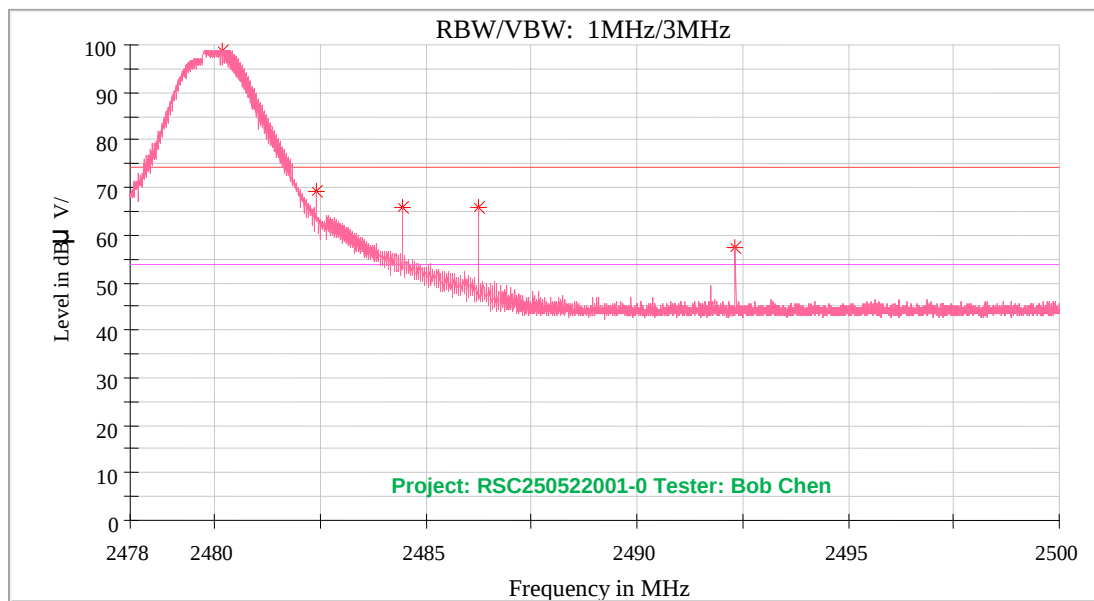
Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.914000	93.53	---	---	H	-3.0
2483.511000	35.41	54.00	38.59	H	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Peak

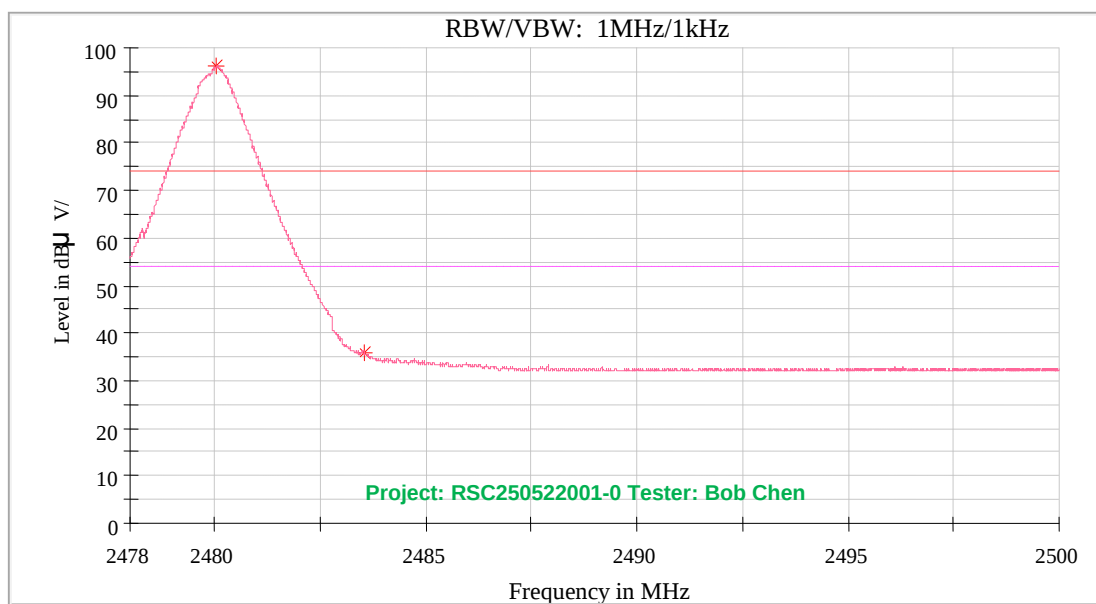
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2480.191200	98.81	---	---	V	-3.0
2482.422000	69.16	---	---	V	-3.0
2484.443800	66.01	74.00	7.99	V	-3.0
2486.265400	65.96	74.00	8.04	V	-3.0
2492.341800	57.38	74.00	16.62	V	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Average

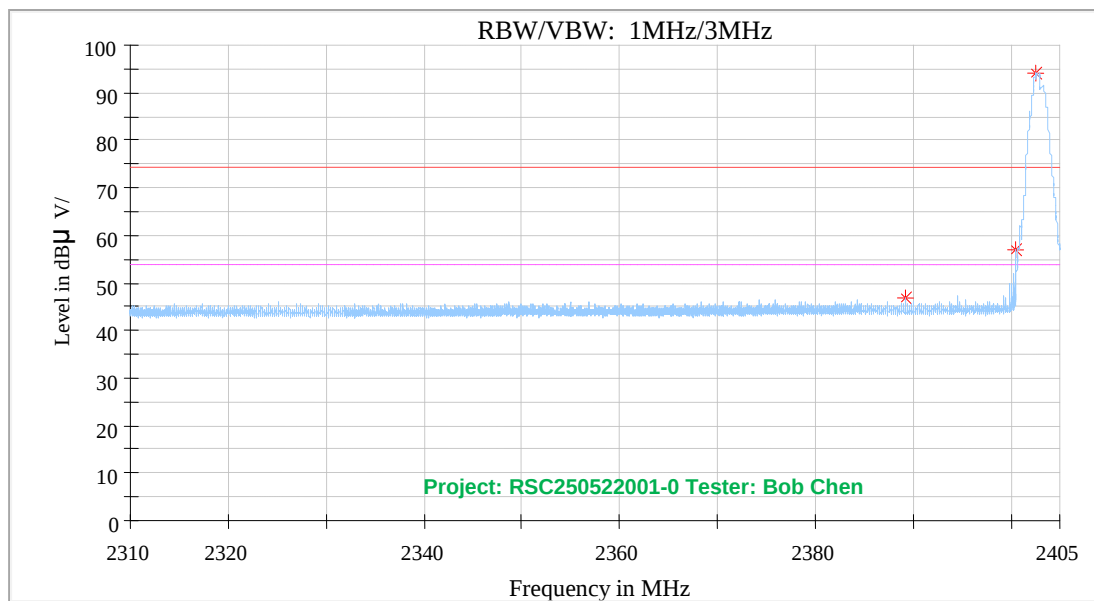
Frequency (MHz)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2480.057000	96.30	---	---	V	-3.0
2483.561600	35.75	54.00	18.25	V	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

1M**Left_Horizontal_Peak**

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.287000	46.70	74.00	27.30	H	-3.0
2400.487500	56.83	---	---	H	-2.9
2402.606000	94.17	---	---	H	-2.9

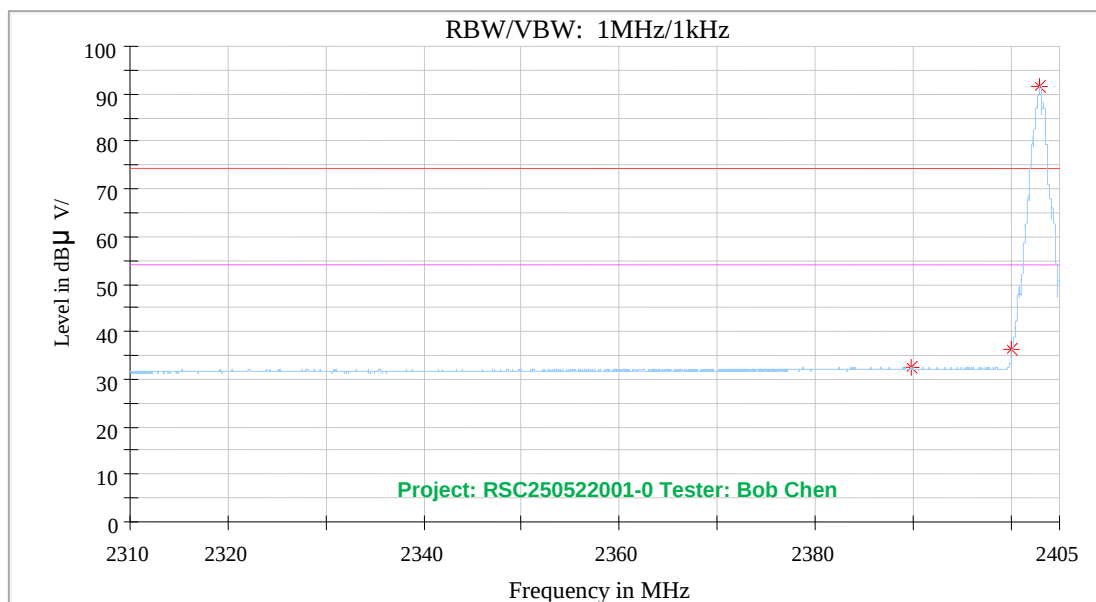
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Horizontal_Average



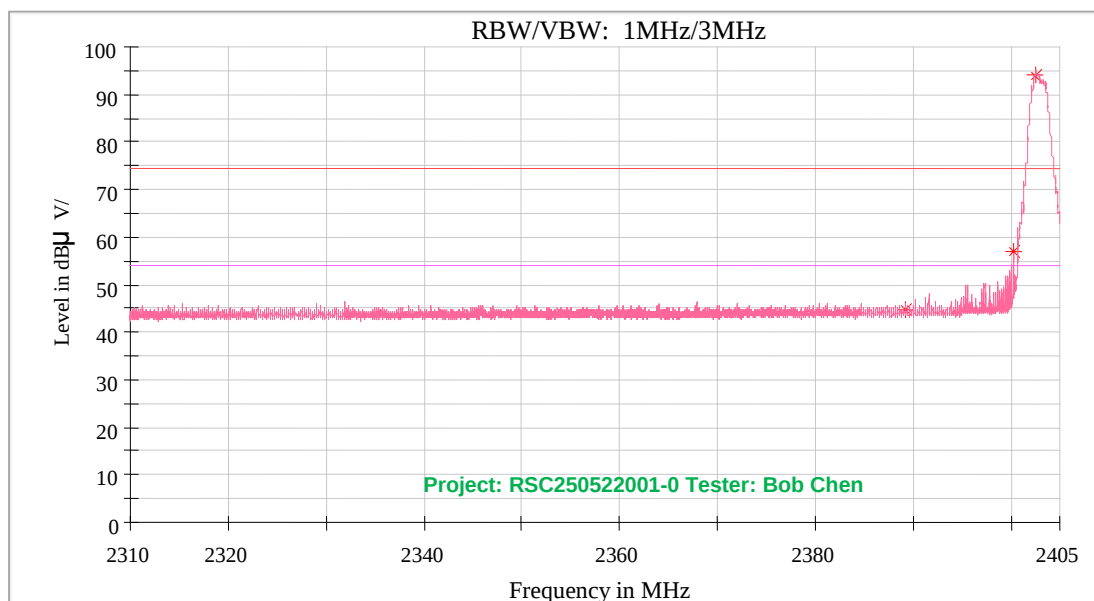
Frequency (MHz)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.819000	32.33	54.00	21.67	H	-3.0
2400.155000	36.08	---	---	H	-2.9
2403.052500	91.42	---	---	H	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Peak

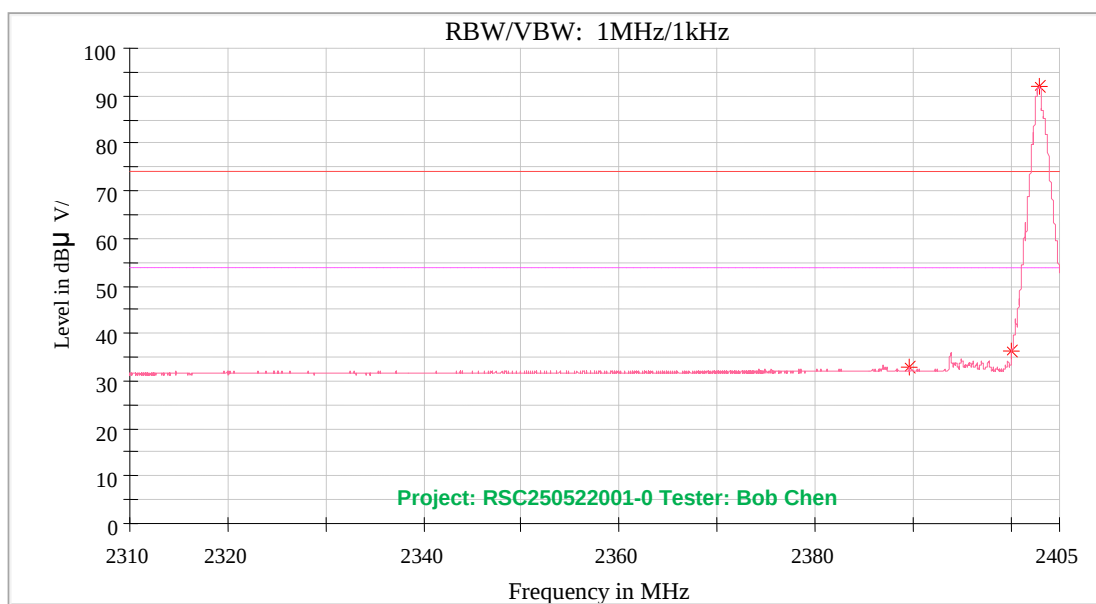
Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.220500	44.90	74.00	29.10	V	-3.0
2400.354500	57.14	---	---	V	-2.9
2402.596500	94.78	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Average

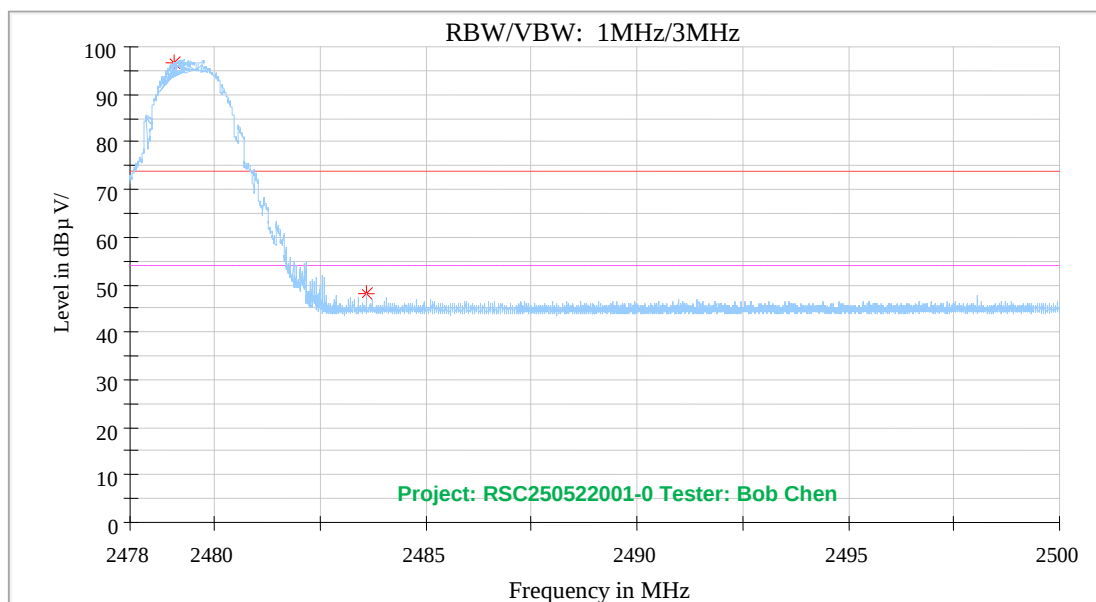
Frequency (MHz)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.676500	32.83	54.00	21.17	V	-3.0
2400.155000	36.19	---	---	V	-2.9
2402.929000	92.07	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Horizontal_Peak

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.062600	96.55	---	---	H	-3.0
2483.603400	47.96	74.00	26.04	H	-3.0

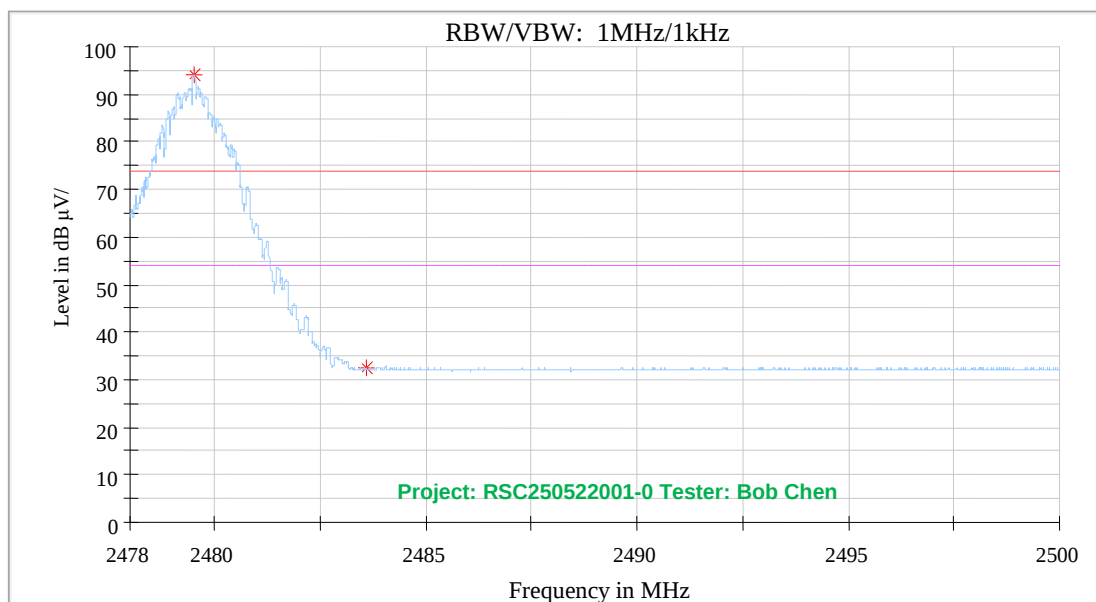
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Horizontal_Average



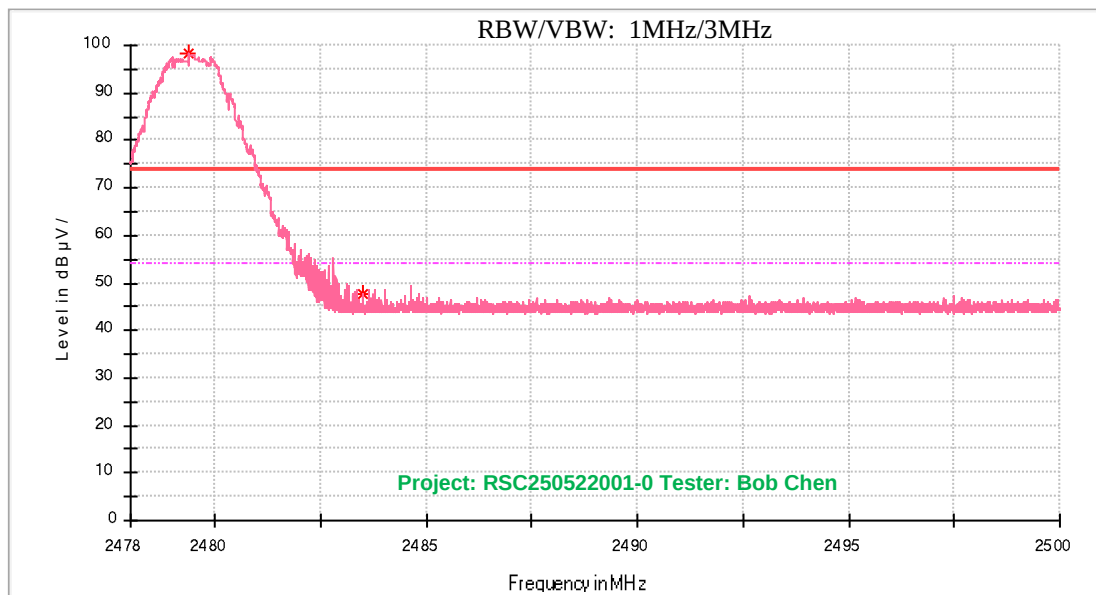
Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.518000	94.25	---		H	-3.0
2483.572600	32.32	54.00	21.68	H	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Peak

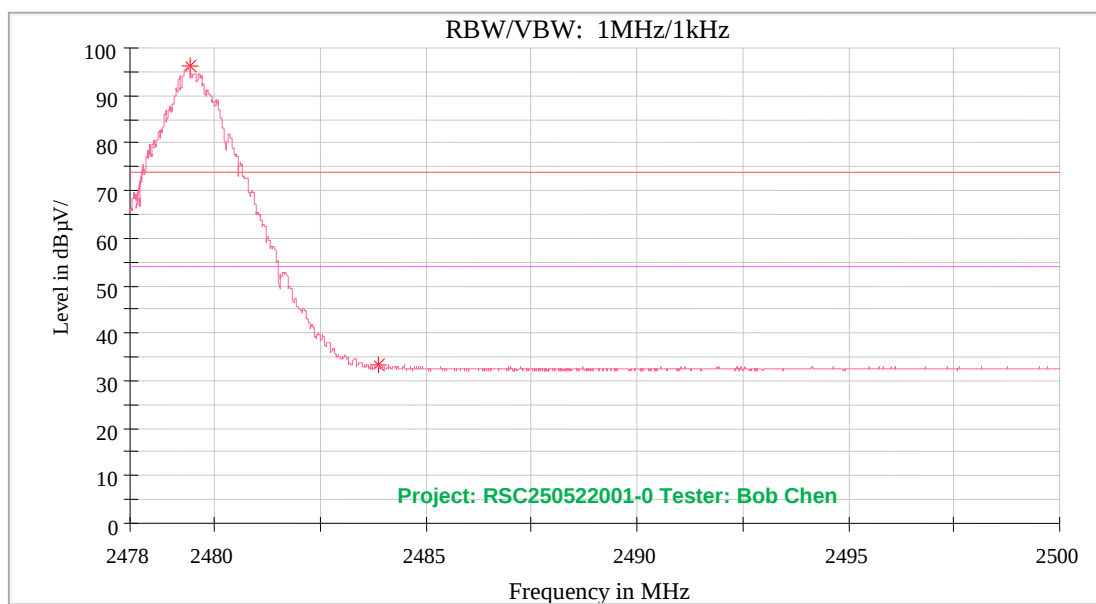
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.392600	98.28	---	---	V	-3.0
2483.502200	47.56	74.00	26.44	V	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Average

Frequency (MHz)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.399200	96.02	---	---	V	-3.0
2483.876200	33.52	54.00	20.48	V	-3.0

Note:

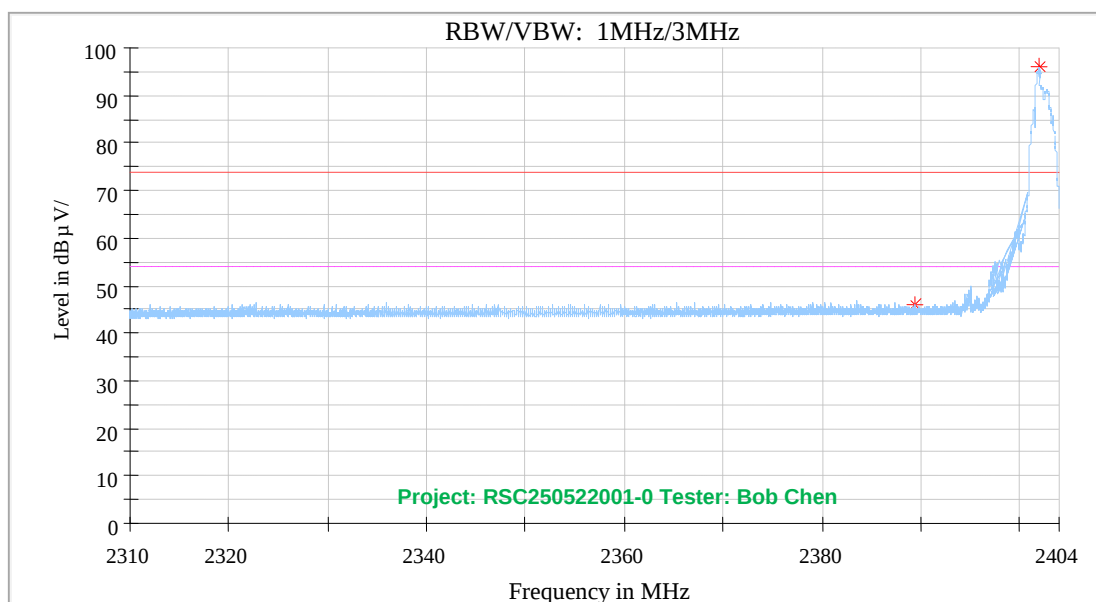
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

2M

Left_Horizontal_Peak



Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.448800	46.02	74.00	27.98	H	-3.0
2401.997800	95.66	---	---	H	-2.9

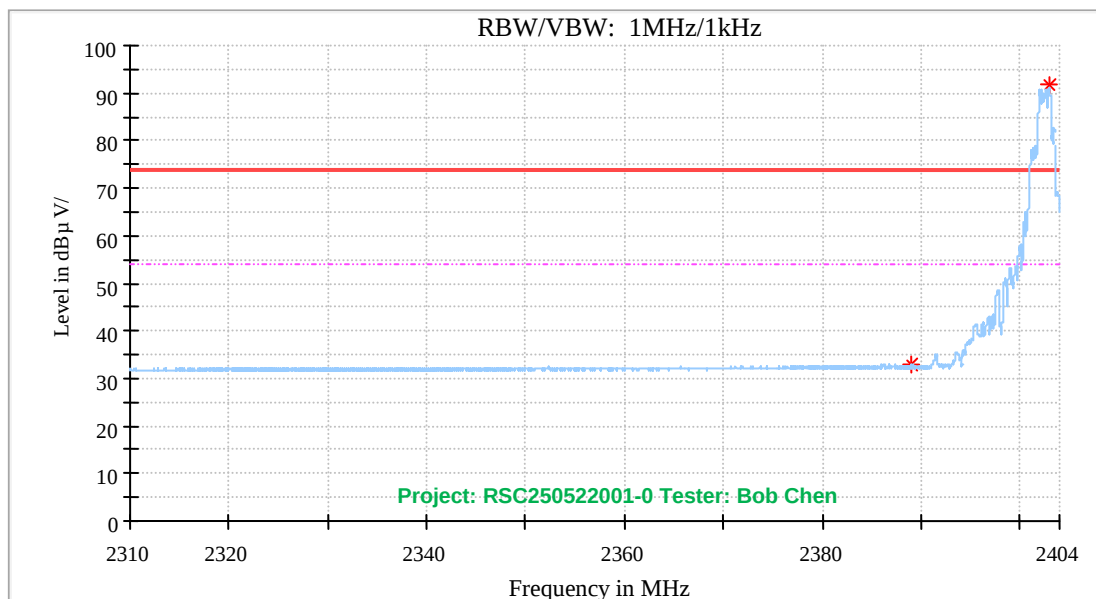
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Horizontal_Average



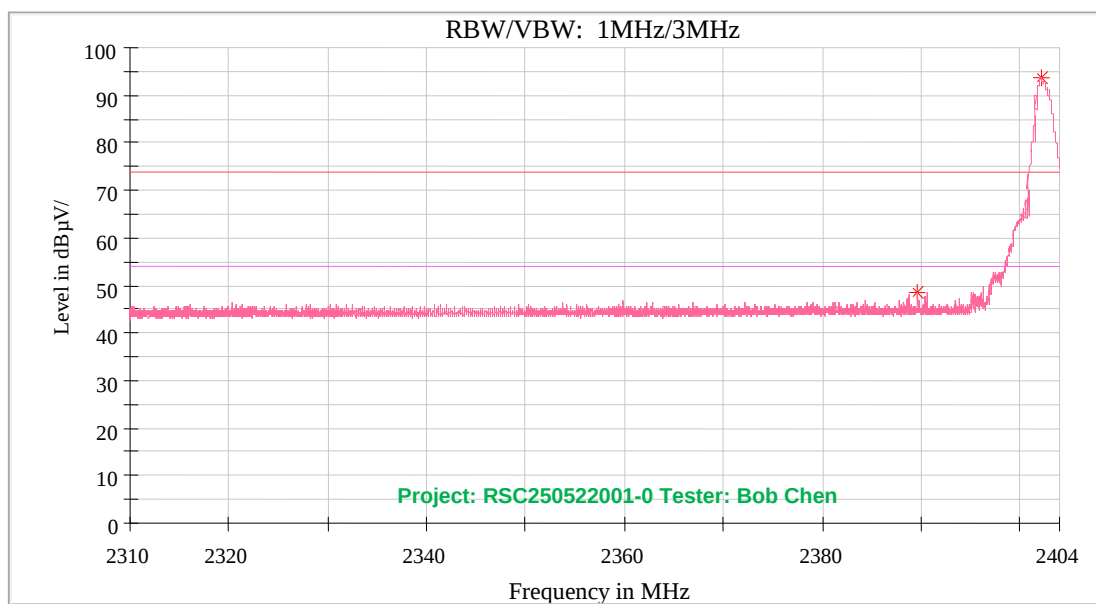
Frequency (MHz)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.072800	32.71	54.00	21.29	H	-3.0
2402.937800	92.35	---	---	H	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Peak

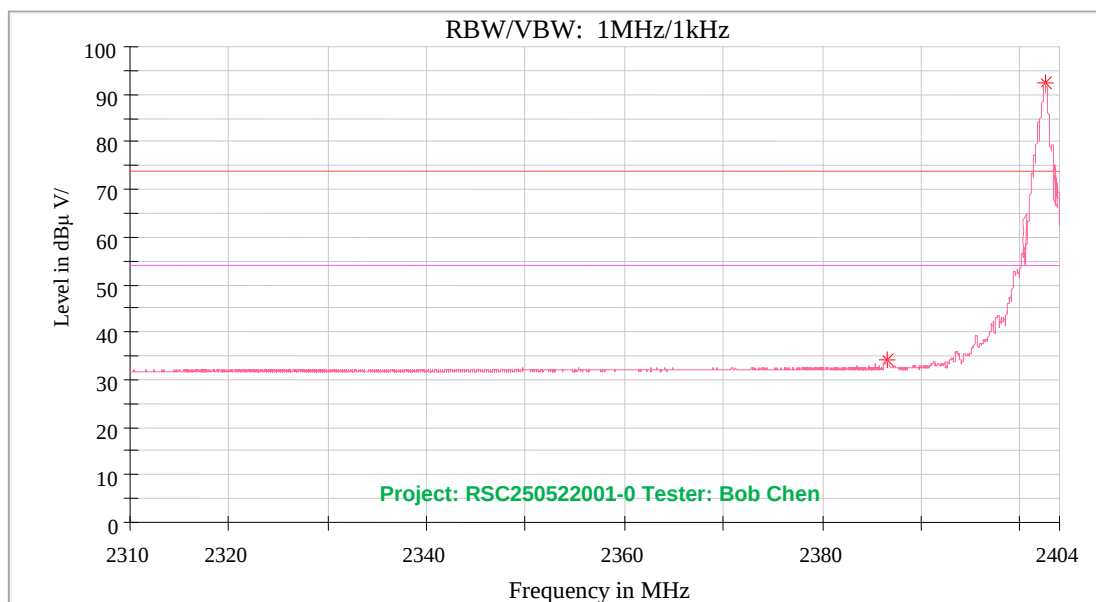
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2389.712000	48.69	74.00	25.31	V	-3.0
2402.138800	93.83	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Left_Vertical_Average

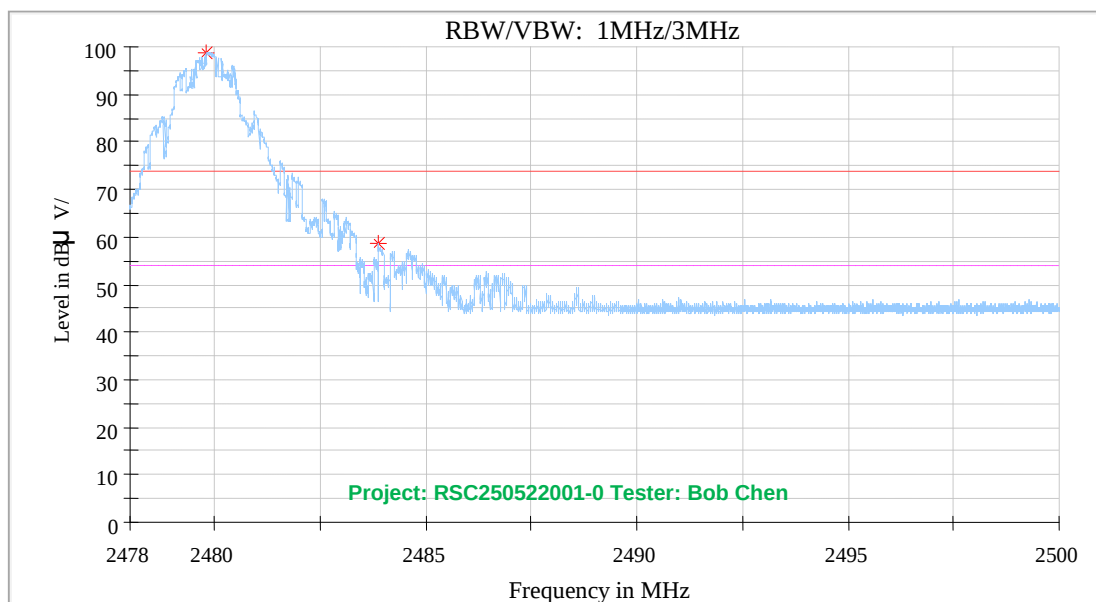
Frequency (MHz)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2386.675800	34.33	54.00	19.67	V	-3.0
2402.496000	92.23	---	---	V	-2.9

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Horizontal_Peak

Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.823800	98.88	---	---	H	-3.0
2483.896000	58.74	74.00	15.26	H	-3.0

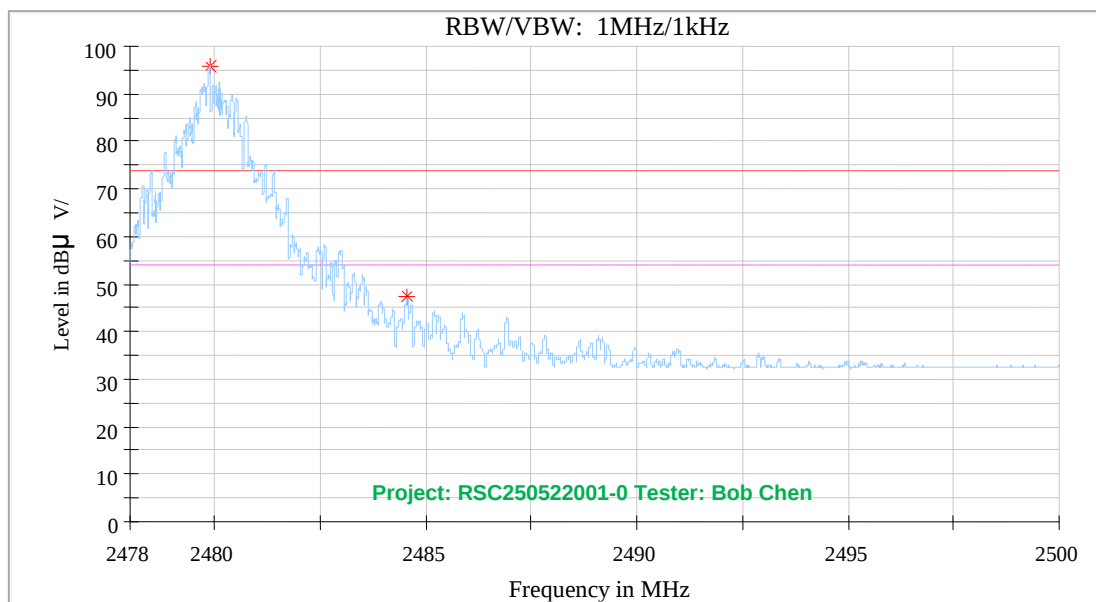
Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Horizontal_Average



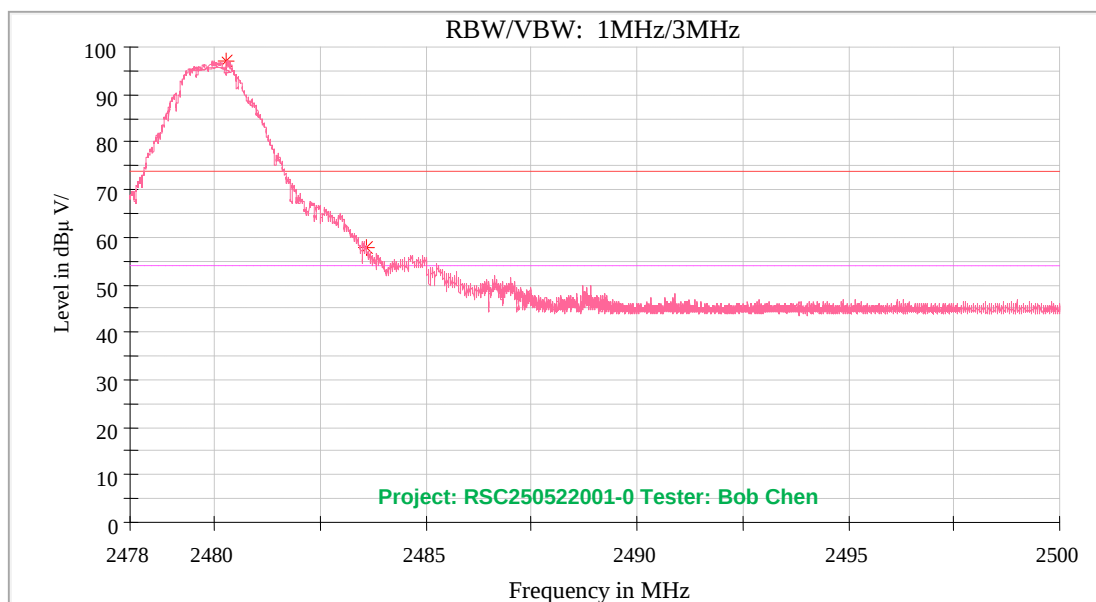
Frequency (MHz)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.881000	95.58	---	---	H	-3.0
2484.358200	47.21	54.00	6.79	H	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Peak

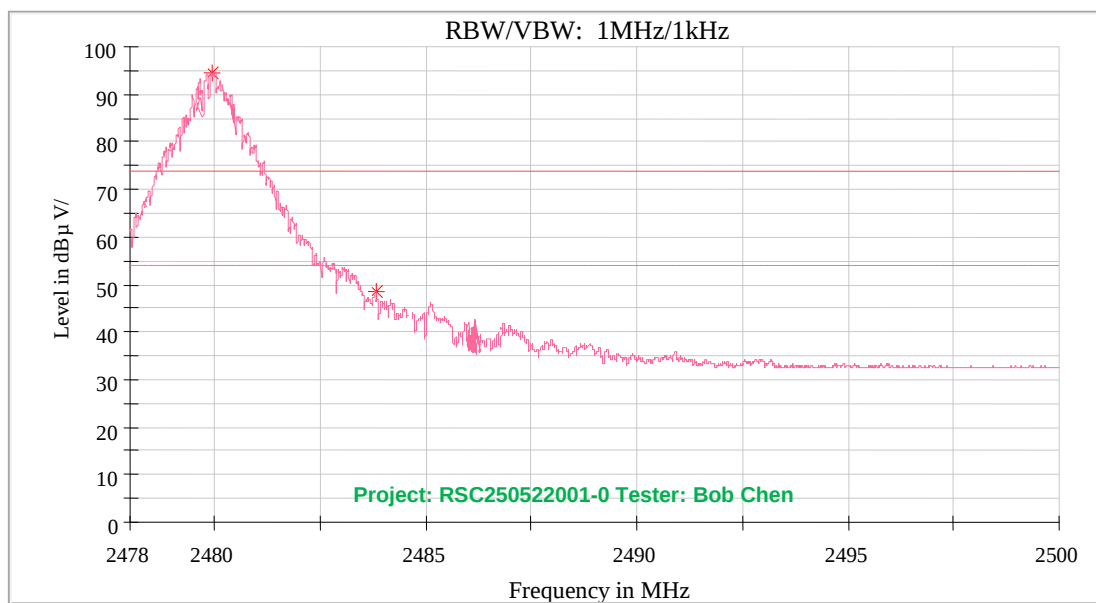
Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB)
2480.299000	96.89	---	---	V	-3.0
2483.577000	57.75	74.00	16.25	V	-3.0

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Right_Vertical_Average

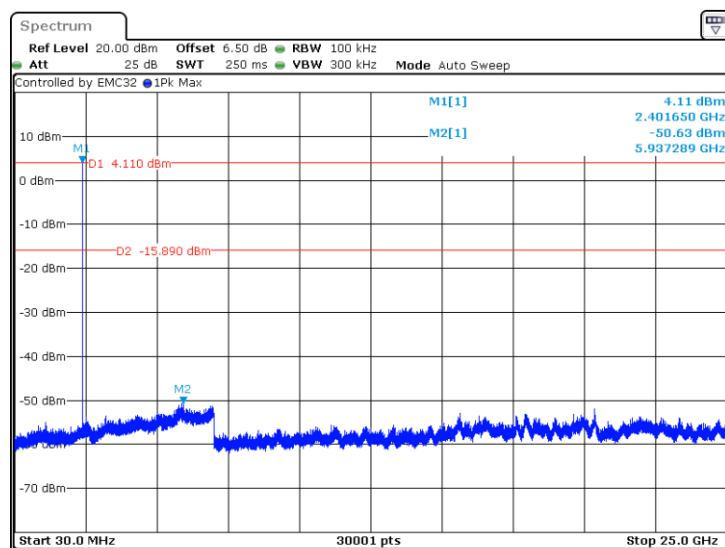
Frequency (MHz)	Average (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB)
2479.936000	94.71	---	---	V	-3.0
2483.810200	48.33	54.00	5.67	V	-3.0

Note:

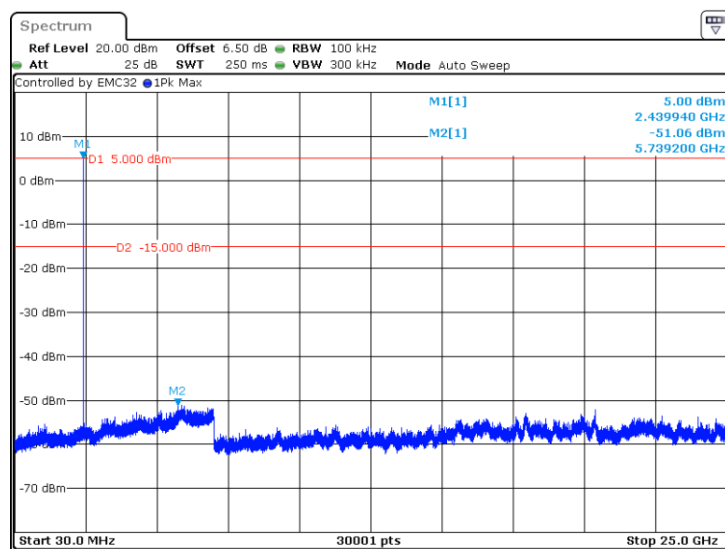
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

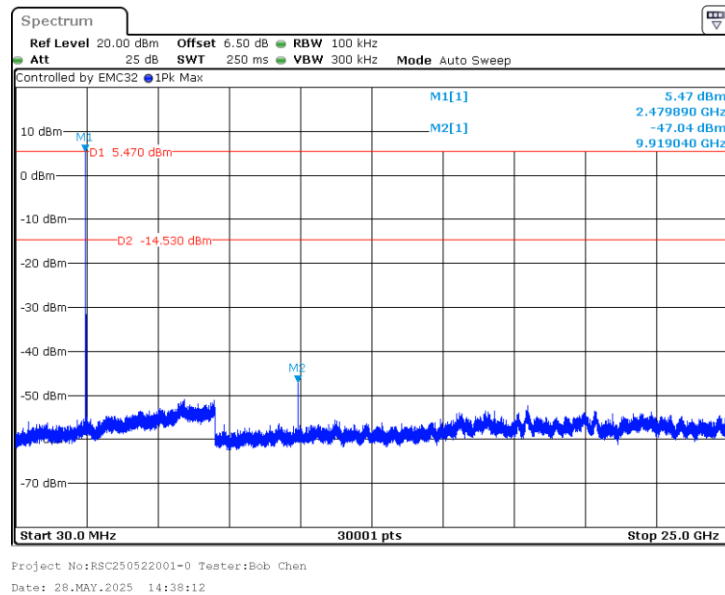
Conducted Spurious Emission At Antenna Port:**100k****Low Channel**

Project No: RSC250522001-0 Tester: Bob Chen
Date: 28.MAY.2025 14:32:15

Middle Channel

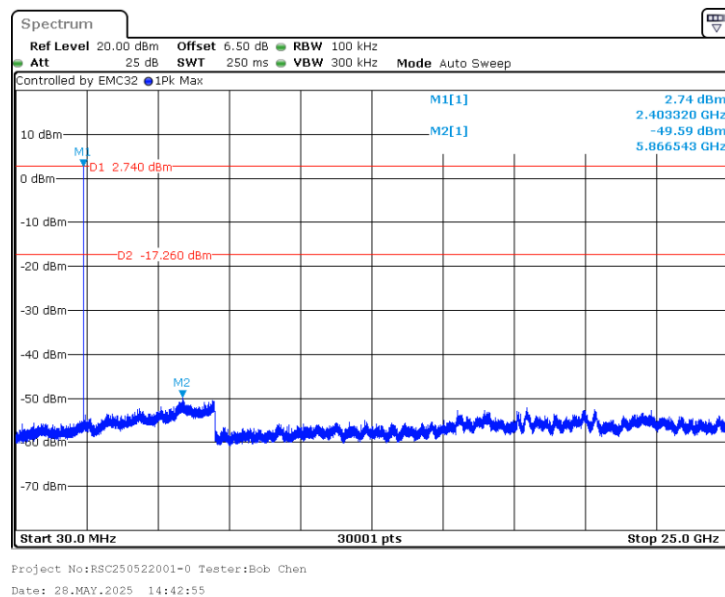
Project No: RSC250522001-0 Tester: Bob Chen
Date: 28.MAY.2025 14:35:47

High Channel

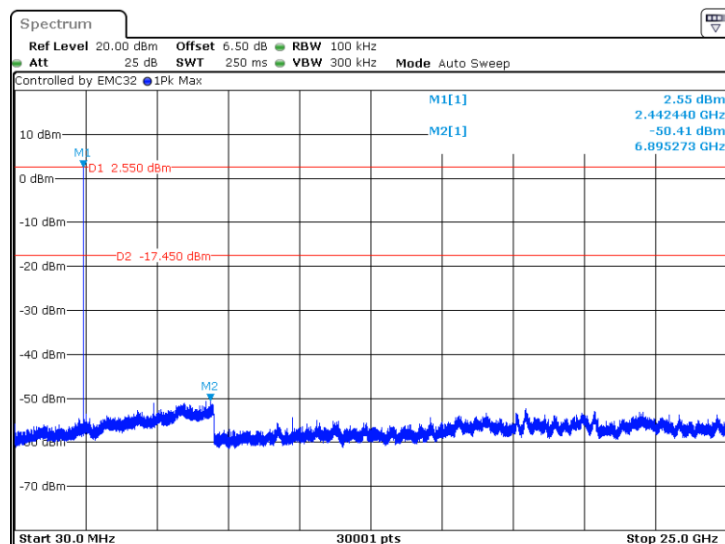


1M

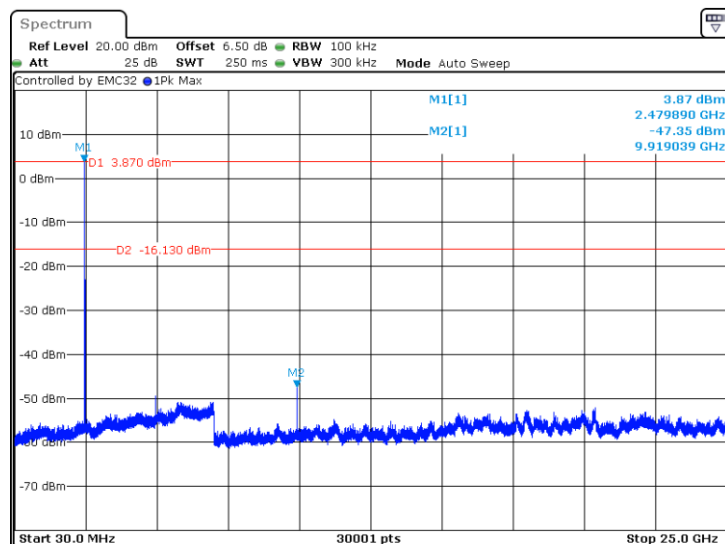
Low Channel



Middle Channel

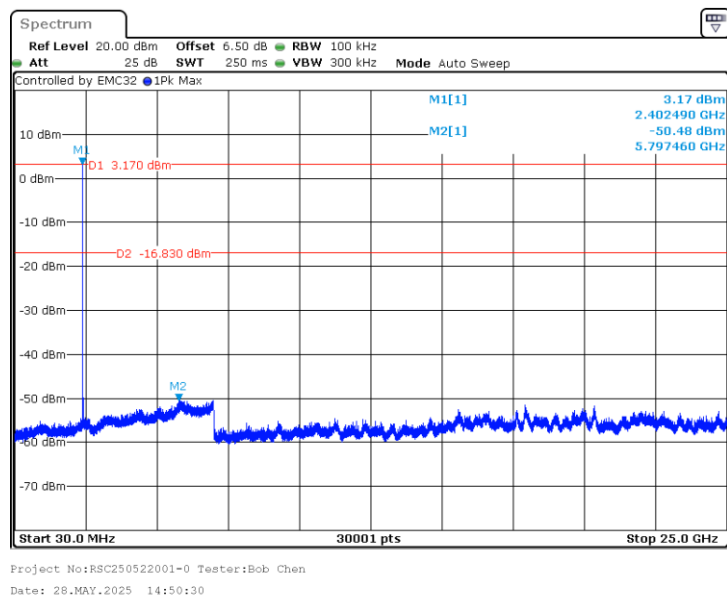


High Channel

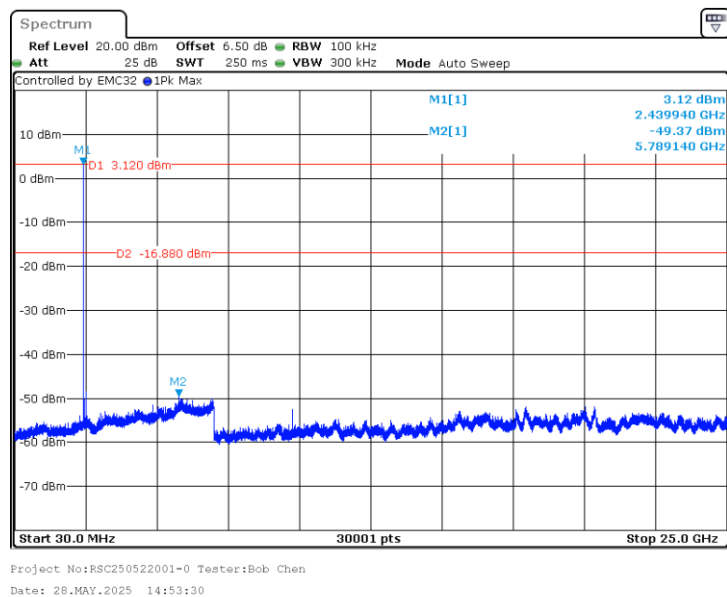


2M

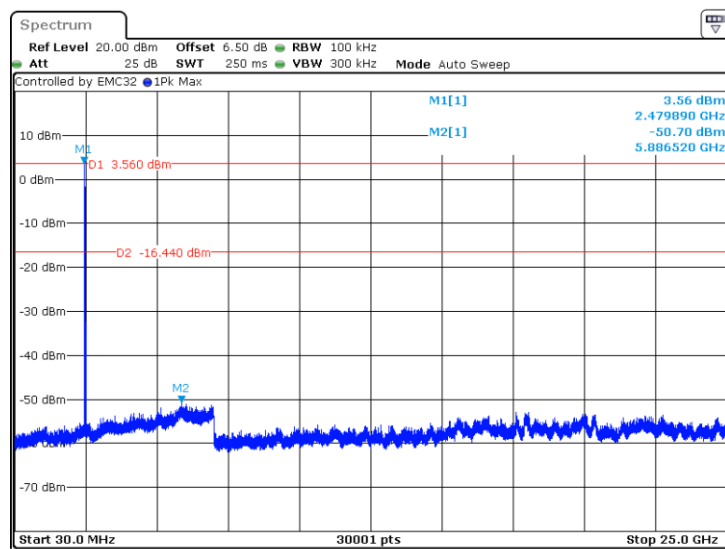
Low Channel



Middle Channel



High Channel



Project No:RSC250522001-0 Tester:Bob Chen
Date: 28.MAY.2025 14:57:12

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, 5725–5850 MHz bands.

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

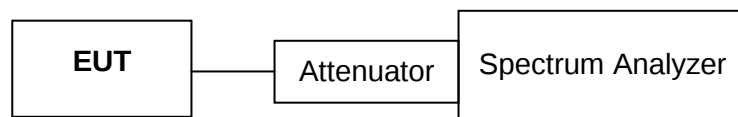
Test Procedure

ANSI C63.10-2020 Clause 11.8.1 Option 1

The steps for the first option are as follows:

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	96.3 kPa

The testing was performed by Bob Chen on 2025-05-28.

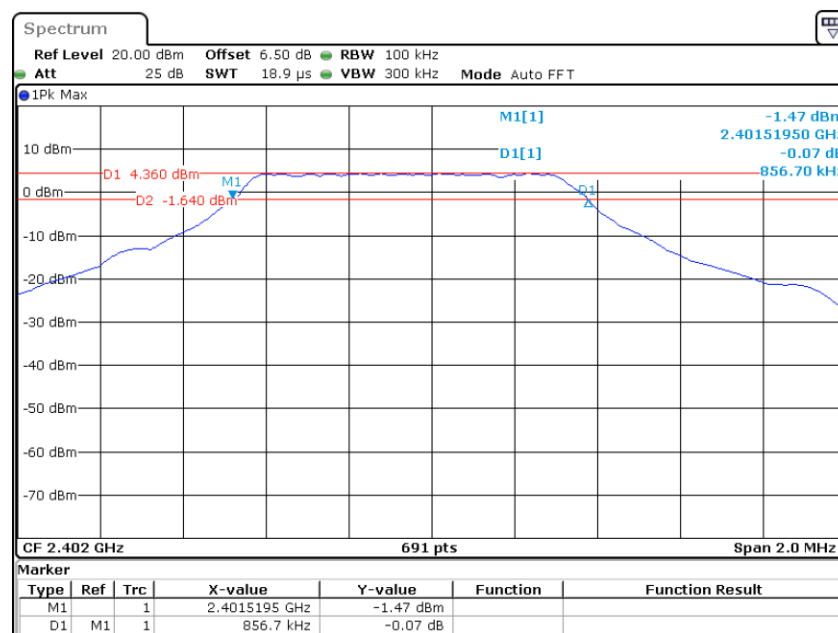
Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

Mode	Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)
100k	Low	2402	856.70	≥500
	Middle	2440	903.00	≥500
	High	2480	856.70	≥500
1M	Low	2403	842.30	≥500
	Middle	2442	833.60	≥500
	High	2479.5	803.20	≥500
2M	Low	2402.5	882.89	≥500
	Middle	2440	860.89	≥500
	High	2480	681.91	≥500

100k

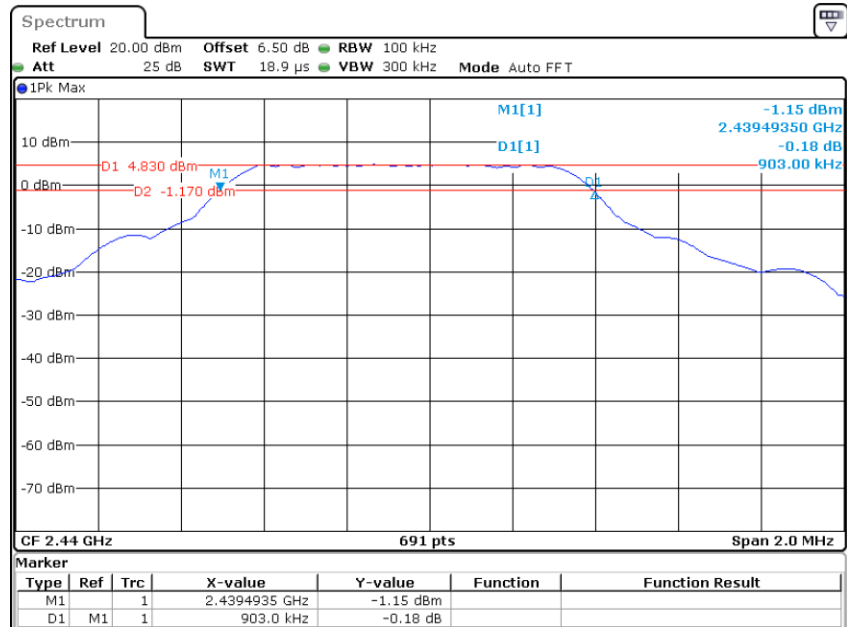
Low Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 13:13:46

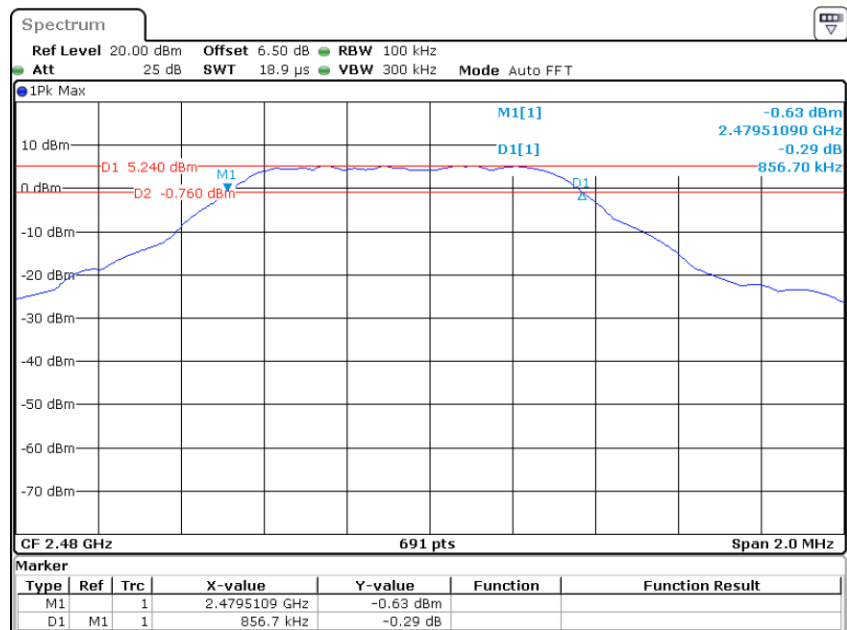
Middle Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:15:38

High Channel

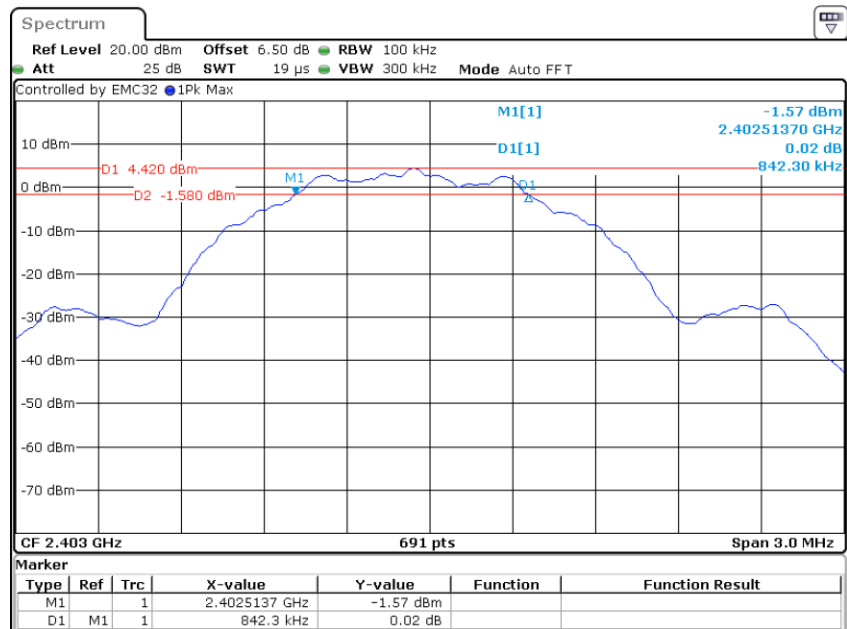


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:16:32

1M

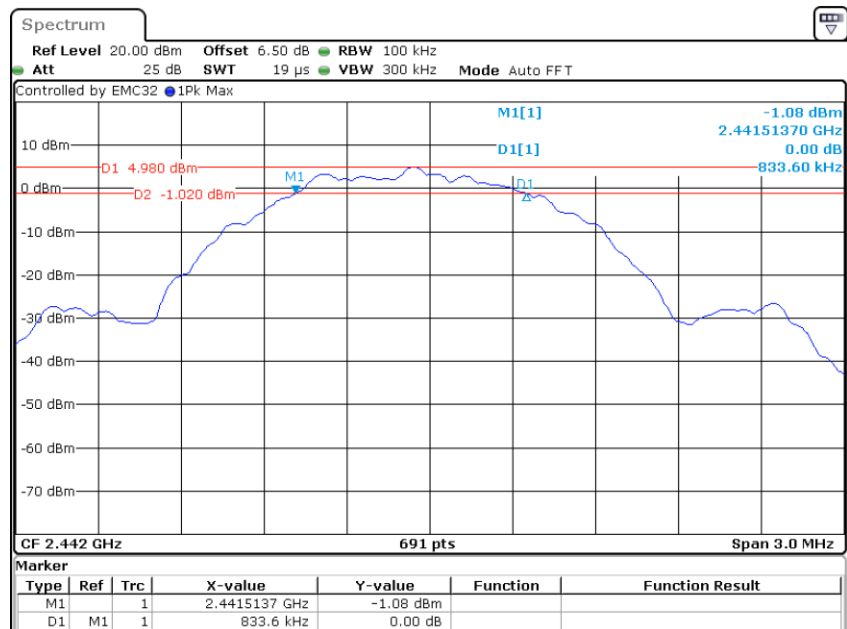
Low Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:20:43

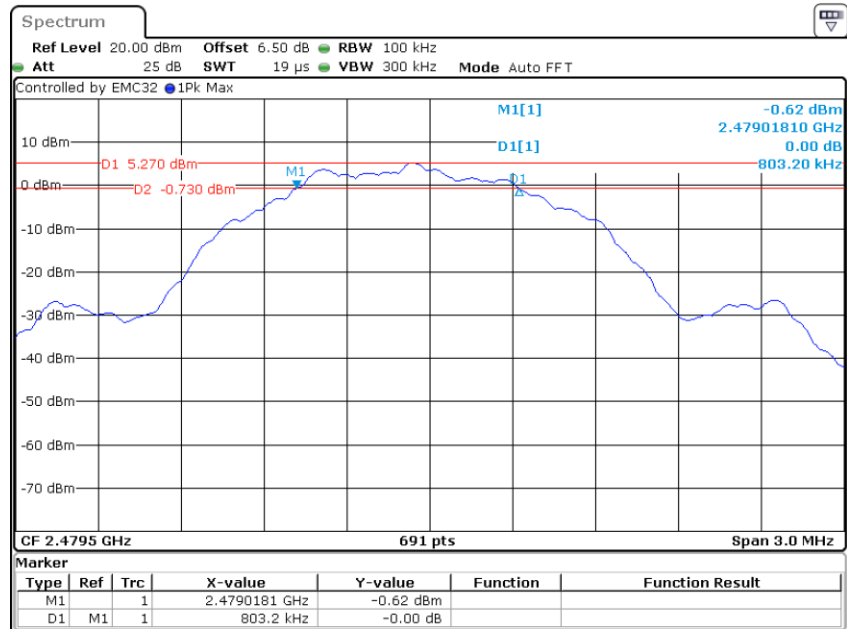
Middle Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:23:07

High Channel

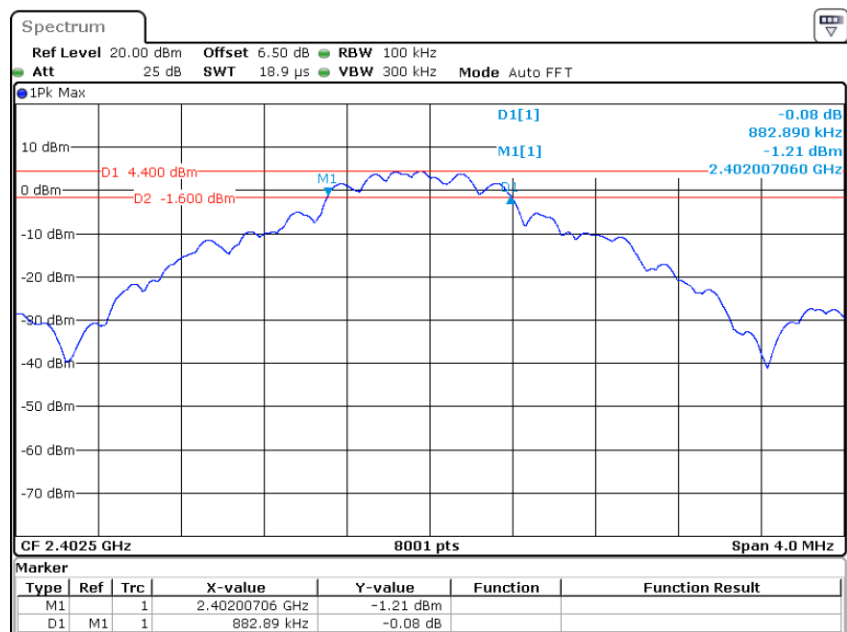


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:26:16

2M

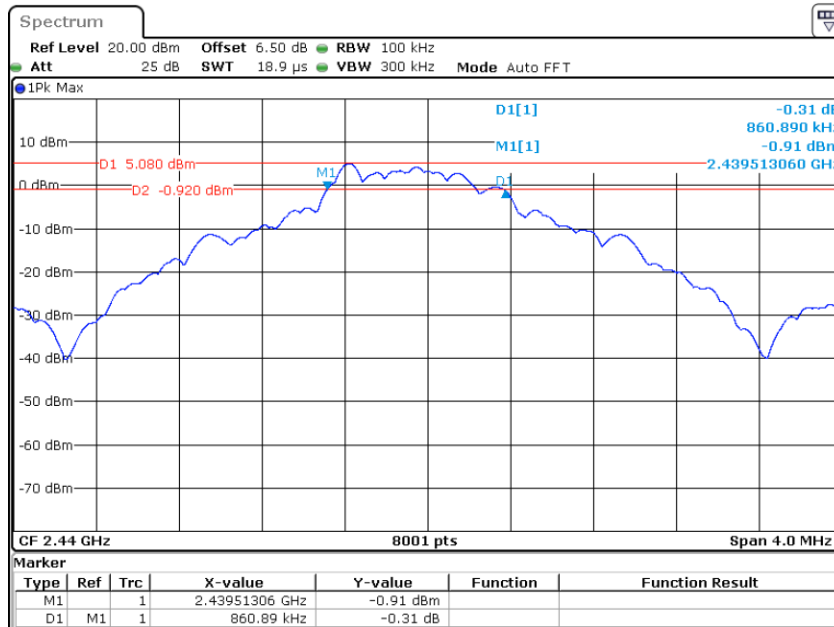
Low Channel



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:42:23

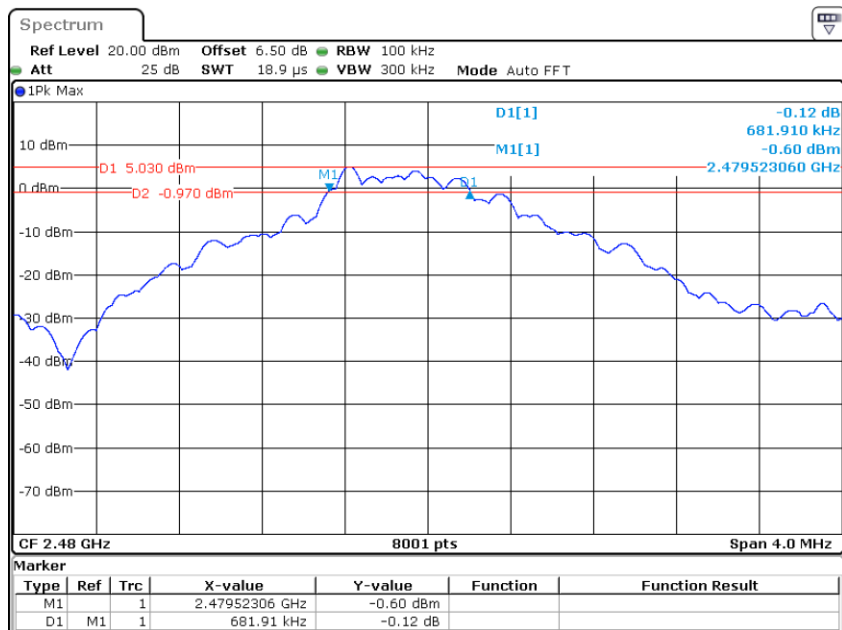
Middle Channel



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:36:11

High Channel



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 13:53:29

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

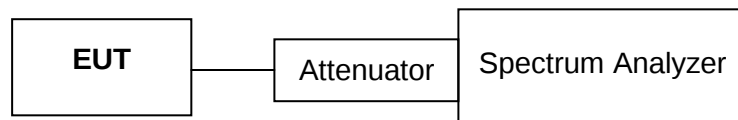
Test Procedure

ANSI C63.10-2020 Clause 11.9.1.1 RBW $\geq$ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq$ [3 $\times$ RBW].
- c) Set span $\geq$ [3 $\times$ RBW].
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	96.3 kPa

The testing was performed by Bob Chen on 2025-05-28.

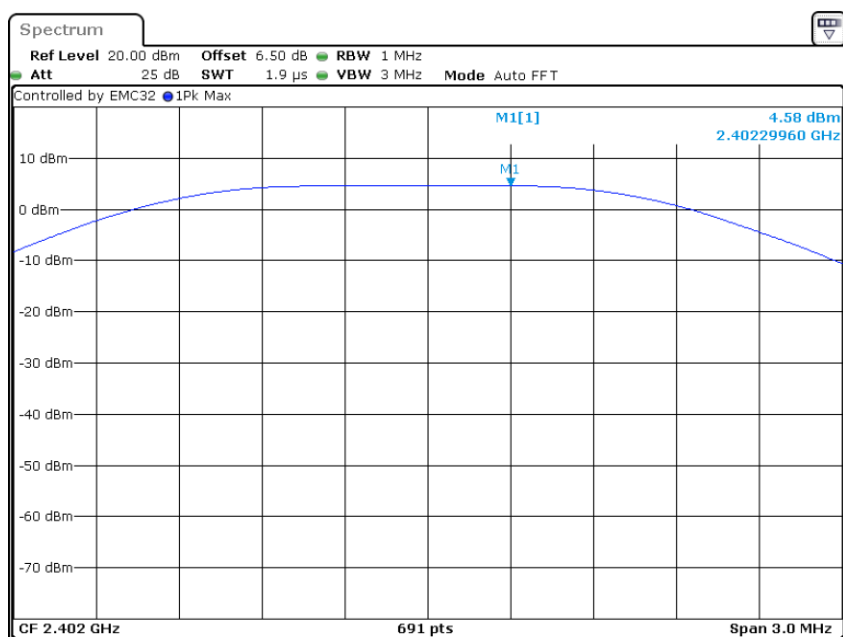
Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

Mode	Channel	Frequency (MHz)	Conducted Peak Output Power (dBm)	Limit (dBm)
100k	Low	2402	4.58	≤30
	Middle	2440	5.25	≤30
	High	2480	5.76	≤30
1M	Low	2403	4.45	≤30
	Middle	2442	5.33	≤30
	High	2479.5	5.69	≤30
2M	Low	2402.5	4.58	≤30
	Middle	2440	5.19	≤30
	High	2480	5.71	≤30

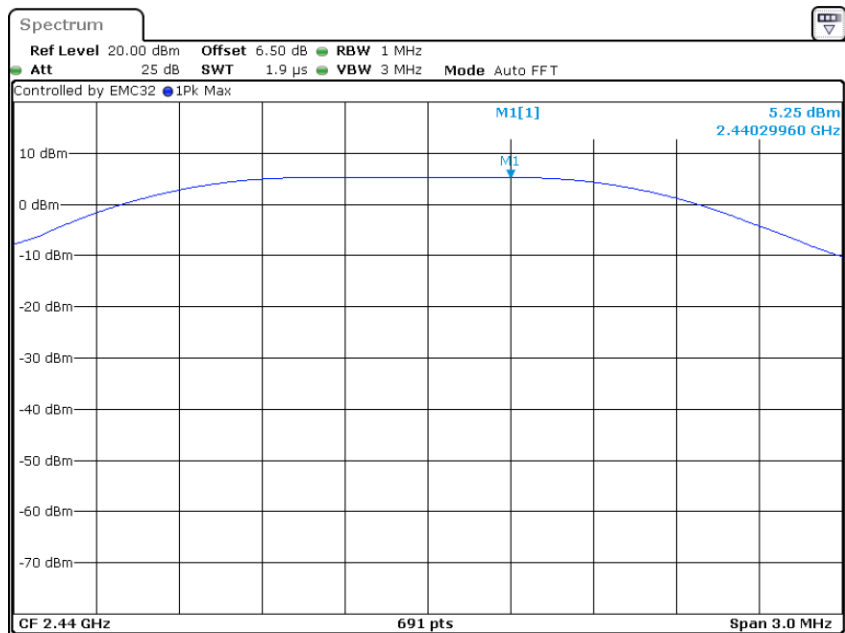
100k

Low Channel



Project No: RSC250522001-0 Tester: Bob Chen
Date: 28.MAY.2025 14:01:18

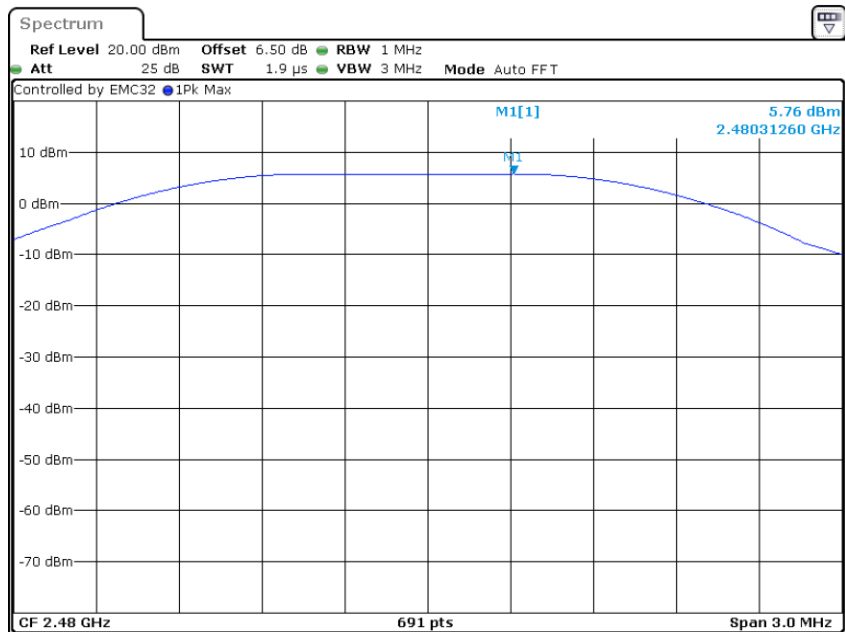
Middle Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:02:01

High Channel

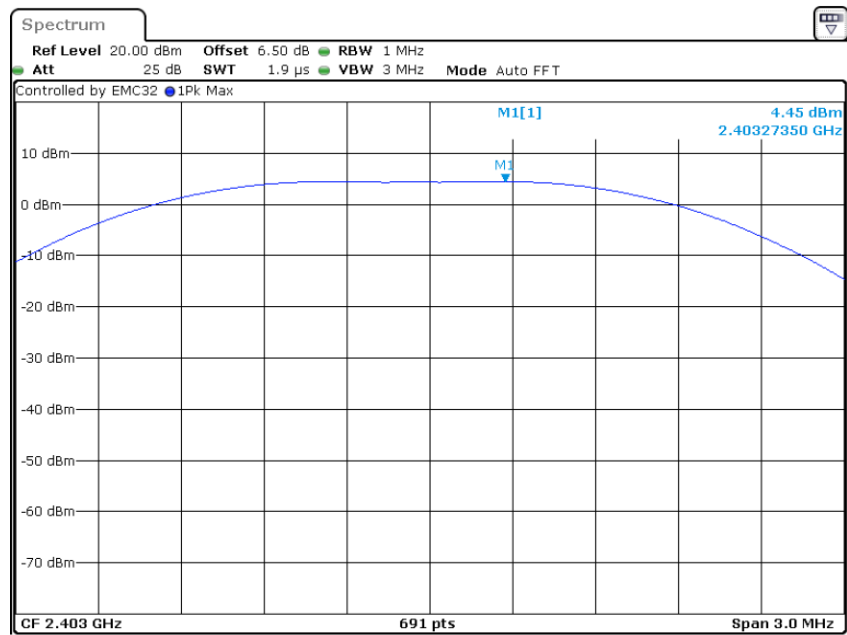


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:02:38

1M

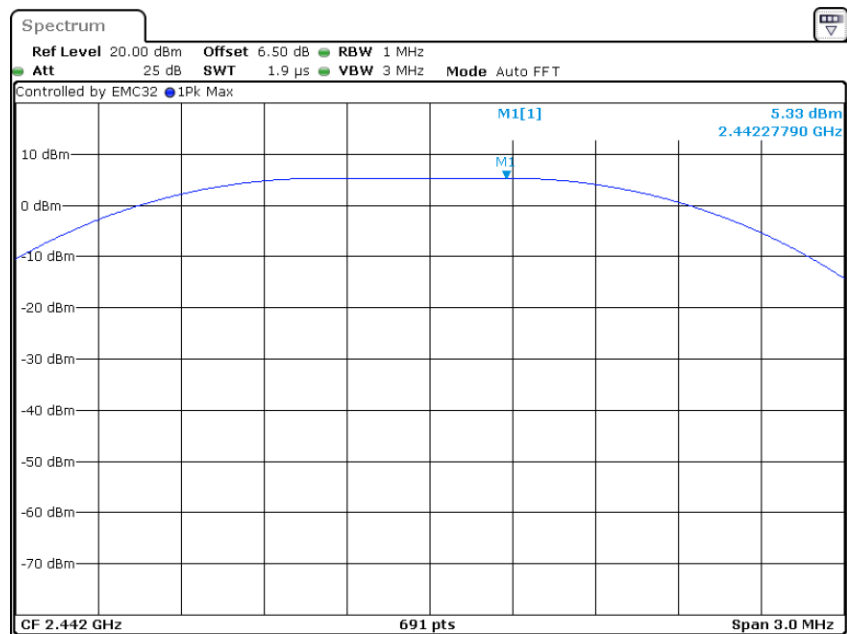
Low Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:07:08

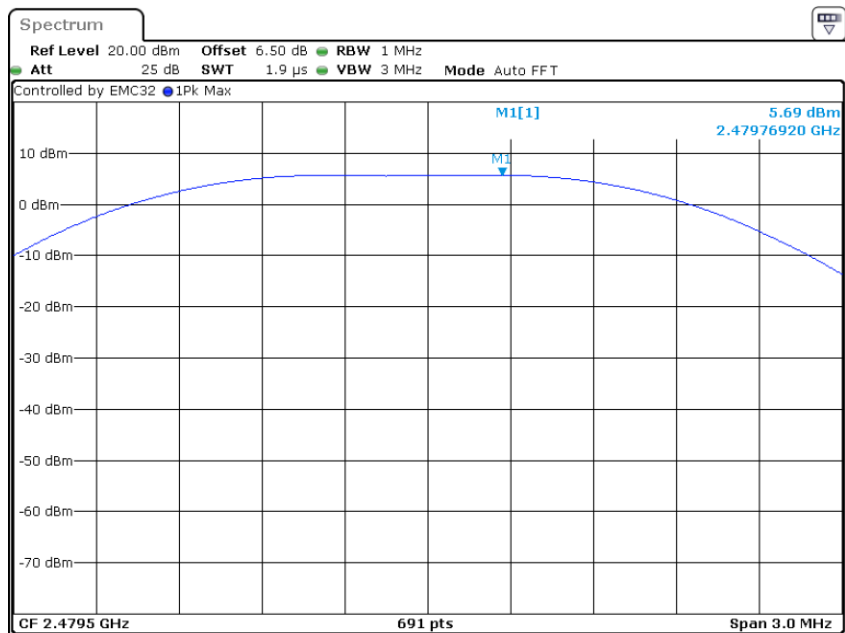
Middle Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:08:12

High Channel

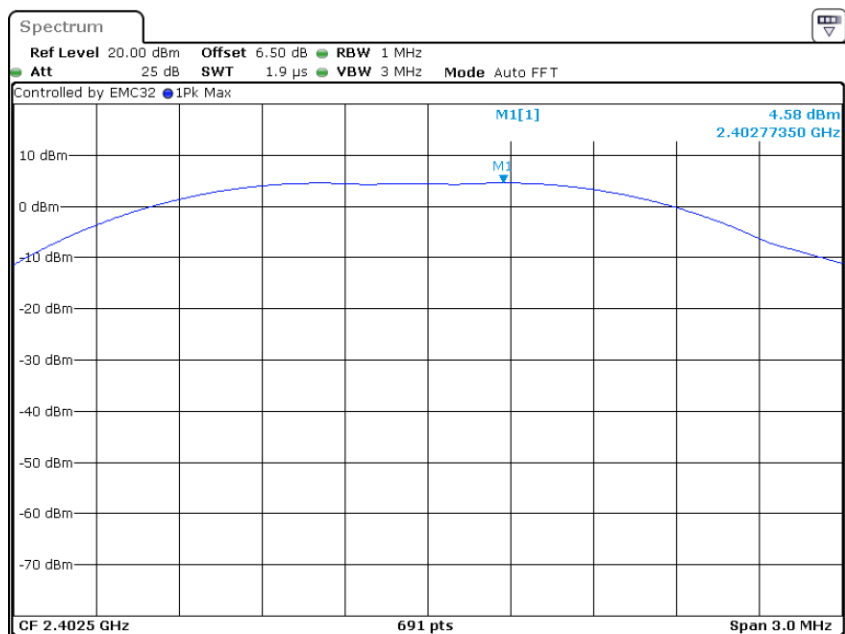


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:09:22

2M

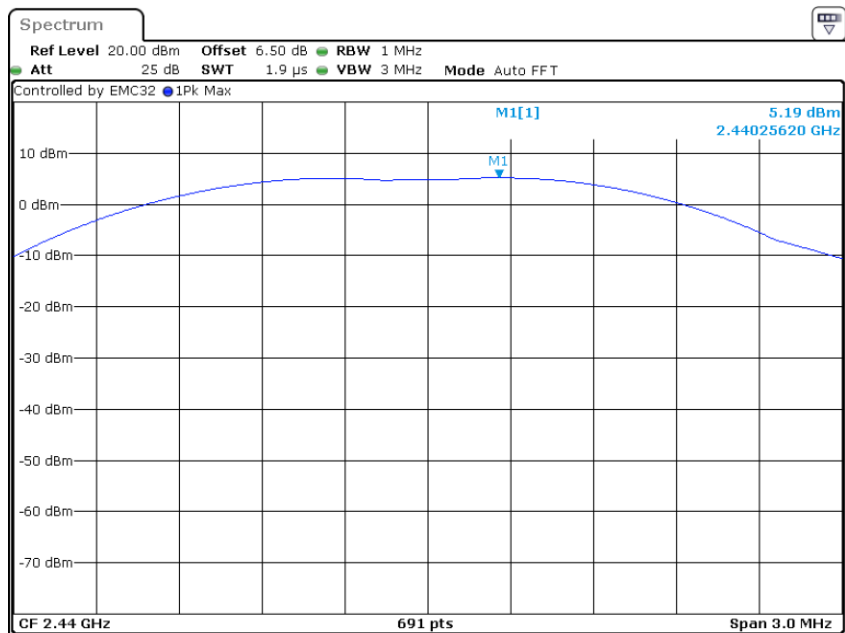
Low Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:11:32

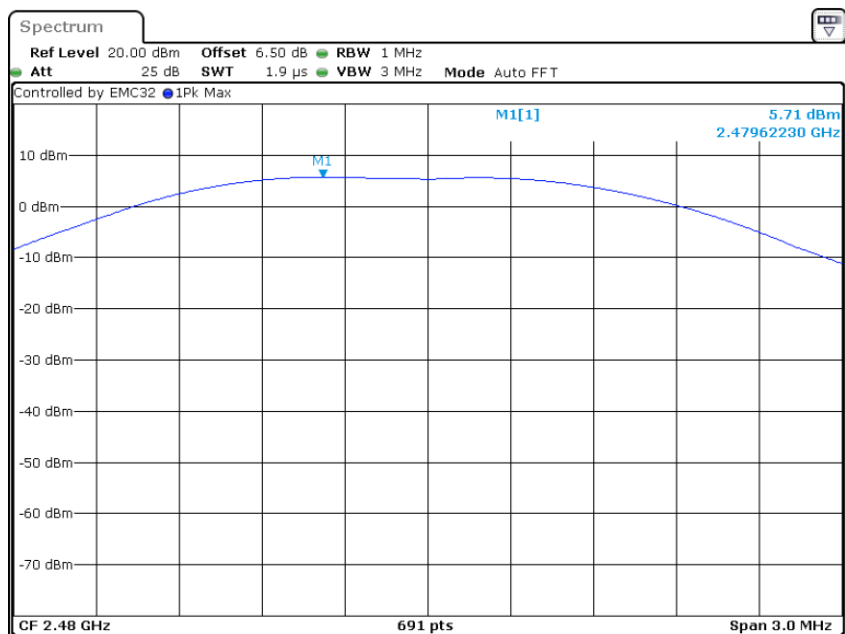
Middle Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:12:37

High Channel



Project No:RSC250522001-0 Tester:Bob Chen

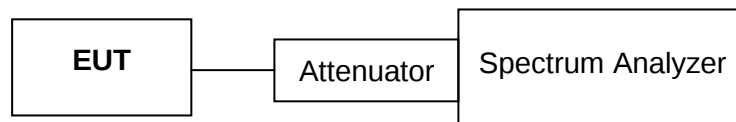
Date: 28.MAY.2025 14:13:44

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 §15.205(c)).

Test Procedure

1. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
2. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
3. Repeat above procedures until all measured frequencies were complete.

Test Setup Block

Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	96.3 kPa

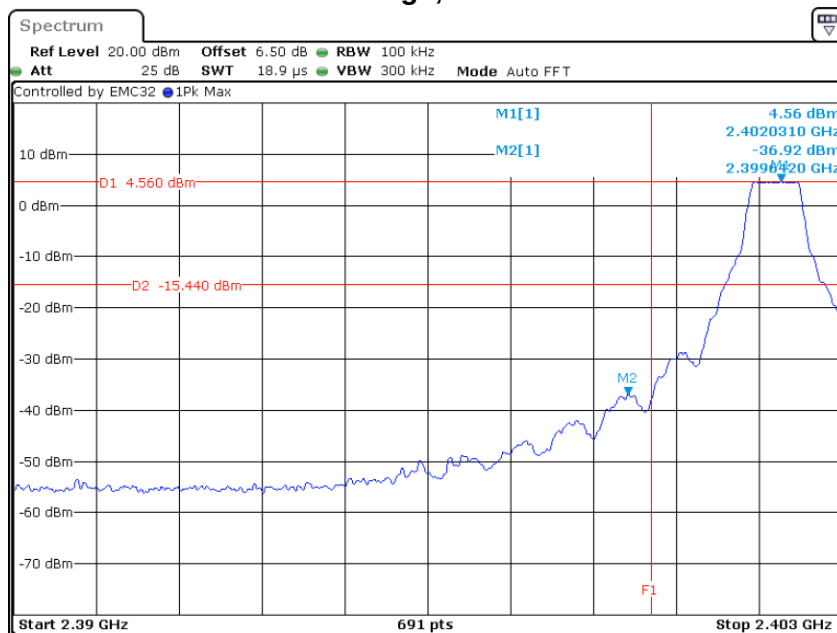
The testing was performed by Bob Chen on 2025-05-28.

Test mode: Transmitting

Test Result: Compliance. Please refer to following plots.

100k

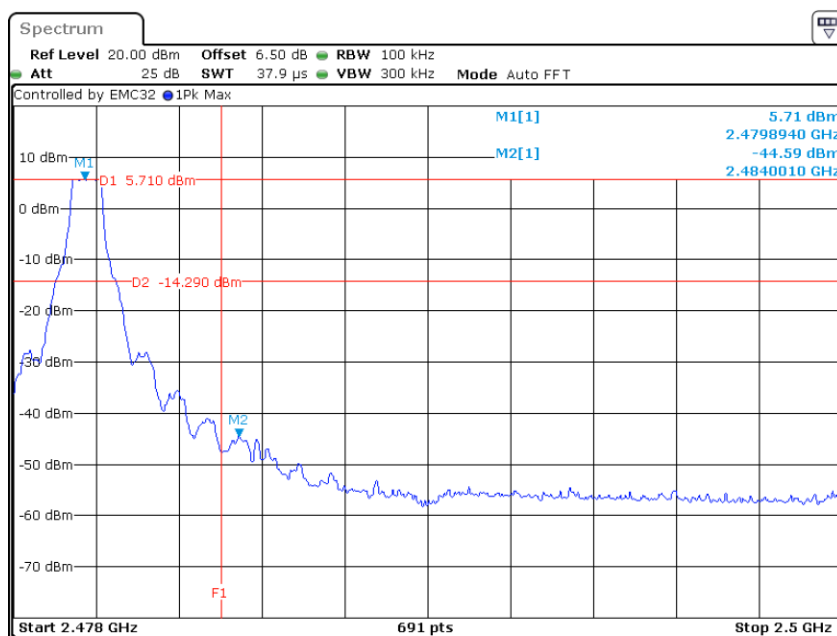
Band Edge, Left Side



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:21:12

Band Edge, Right Side

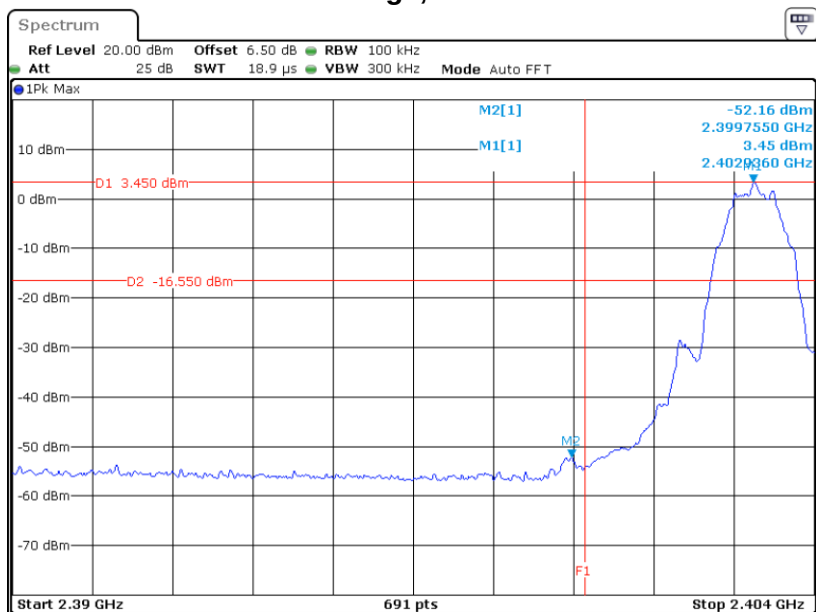


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:27:22

1M

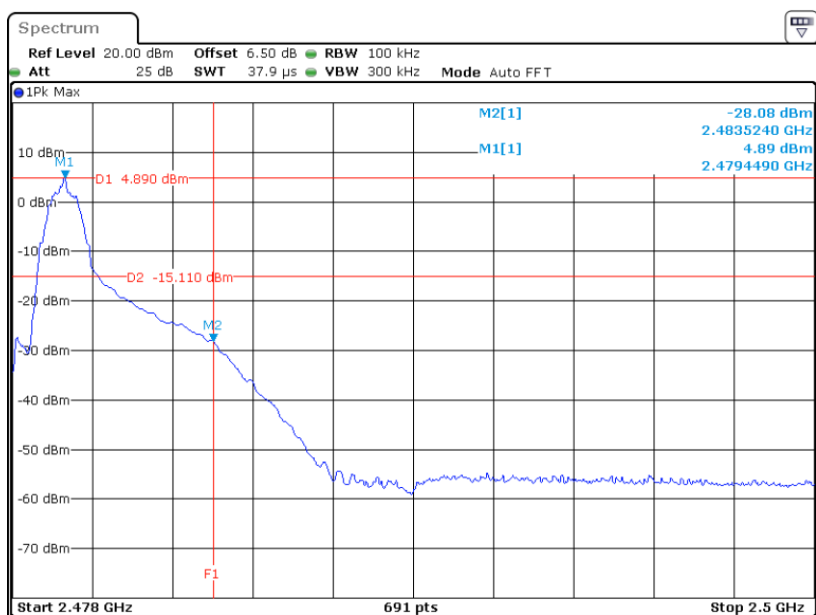
Band Edge, Left Side



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:41:15

Band Edge, Right Side

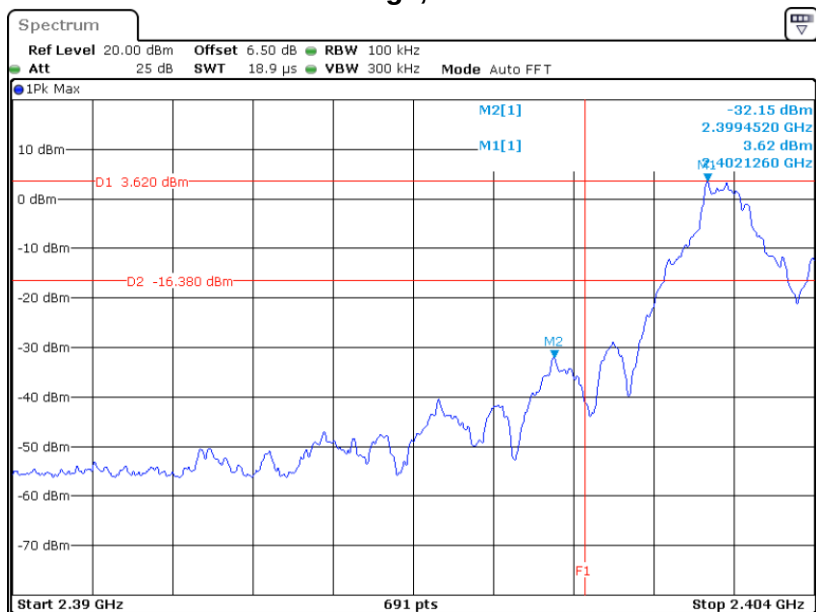


Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:42:22

2M

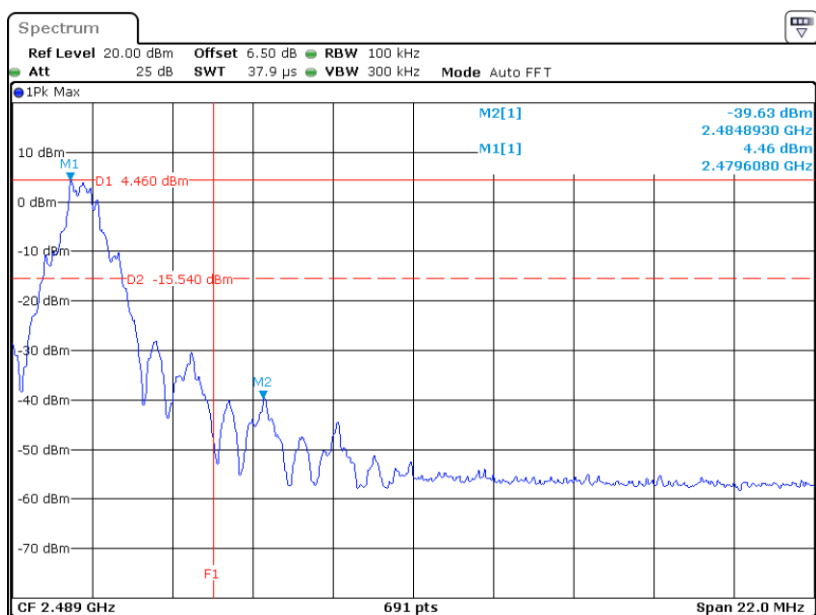
Band Edge, Left Side



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:44:10

Band Edge, Right Side



Project:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:53:35

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

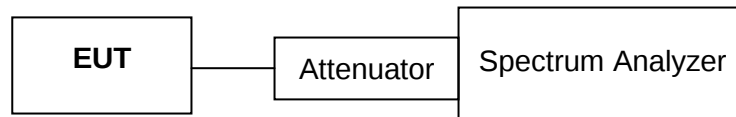
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

Test Procedure

ANSI C63.10-2020 Clause 11.10.2(PKPSD)

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data**Environmental Conditions**

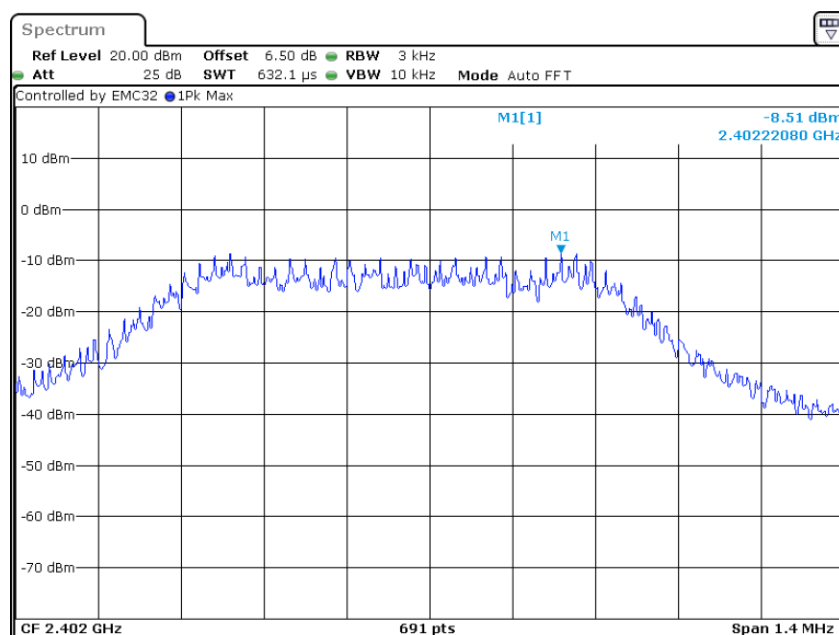
Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	96.3 kPa

The testing was performed by Bob Chen on 2025-05-28.

Test Mode: Transmitting

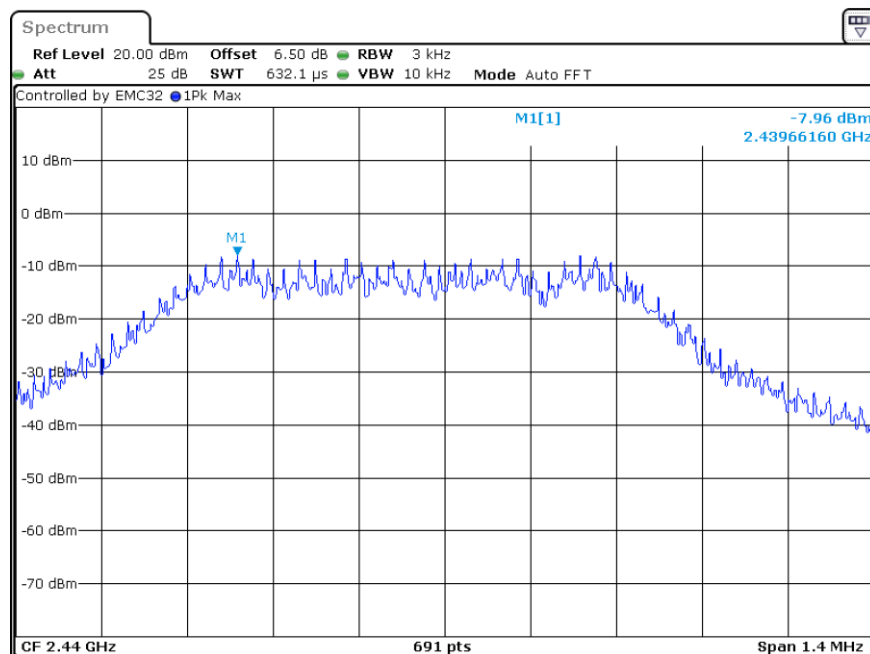
Test Result: Compliance. Please refer to the following table and plots.

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
100k	Low	2402	-8.51	≤8
	Middle	2440	-7.96	≤8
	High	2480	-7.44	≤8
1M	Low	2403	-9.10	≤8
	Middle	2442	-7.69	≤8
	High	2479.5	-8.11	≤8
2M	Low	2402.5	-12.44	≤8
	Middle	2440	-12.62	≤8
	High	2480	-12.15	≤8

100k**Power Spectral Density, Low Channel**

Project No: RSC250522001-0 Tester: Bob Chen
Date: 28.MAY.2025 14:17:31

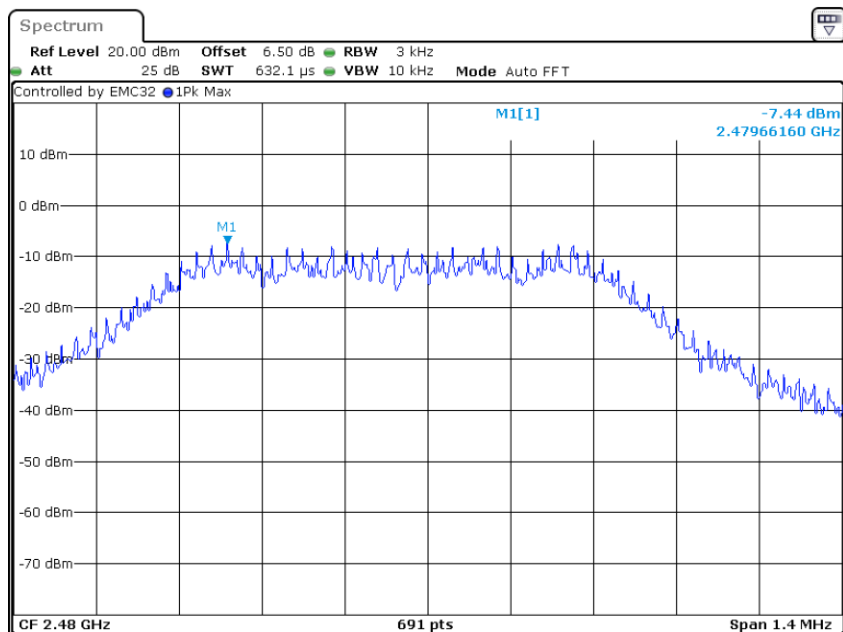
Power Spectral Density, Middle Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:18:33

Power Spectral Density, High Channel

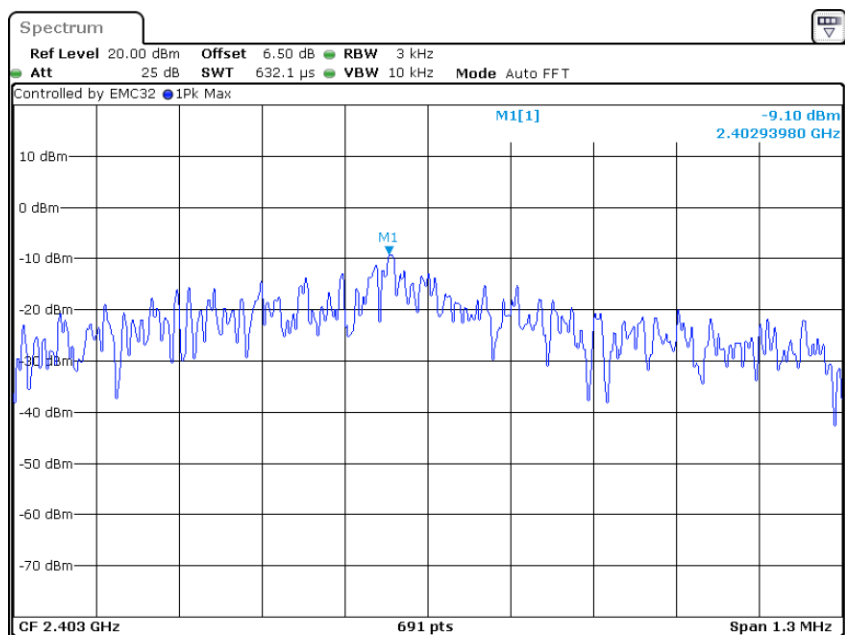


Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:19:18

1M

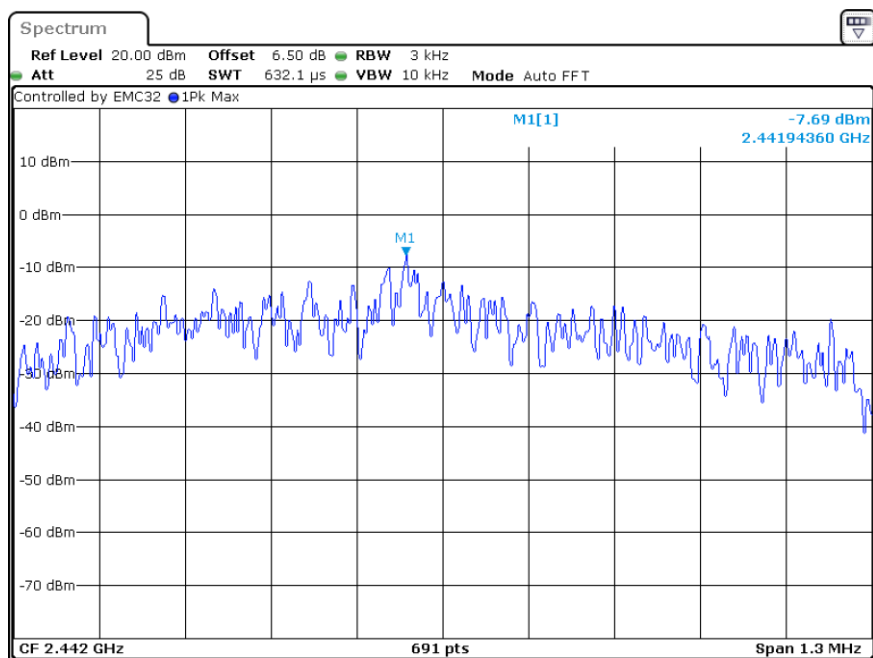
Power Spectral Density, Low Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:23:23

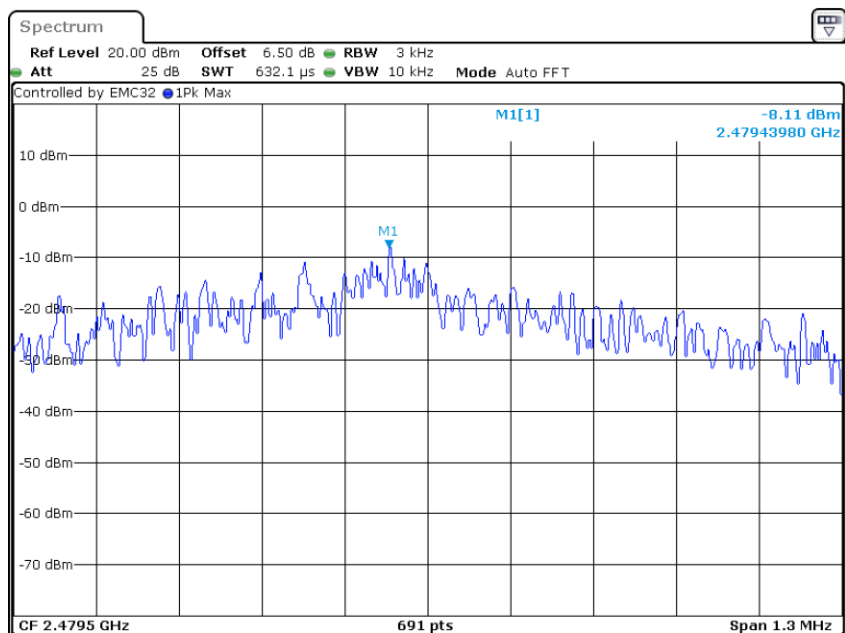
Power Spectral Density, Middle Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:24:17

Power Spectral Density, High Channel

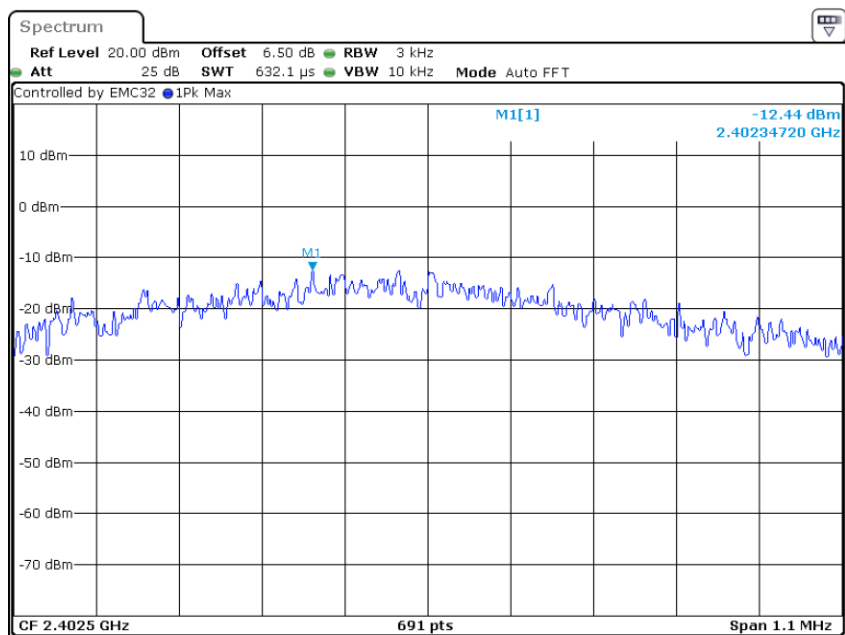


Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:25:00

2M

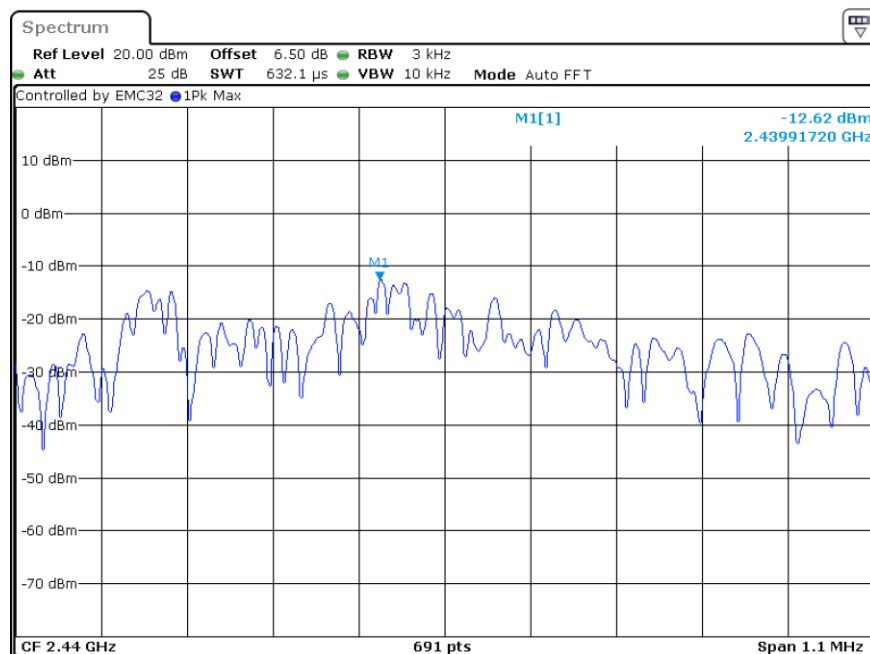
Power Spectral Density, Low Channel



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 14:26:14

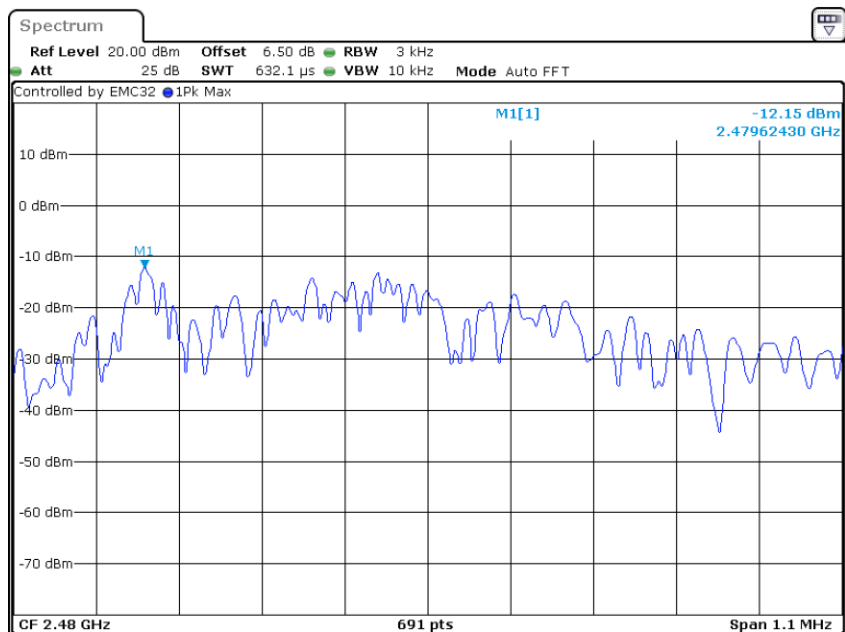
Power Spectral Density, Middle Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:28:00

Power Spectral Density, High Channel



Project No: RSC250522001-0 Tester: Bob Chen

Date: 28.MAY.2025 14:28:51

DUTY CYCLE

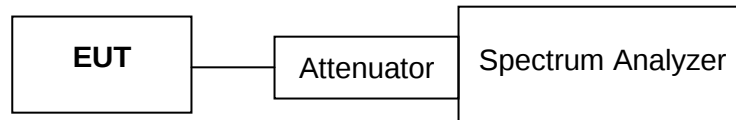
Test Procedure

ANSI C63.10-2020 Clause 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

Test Setup Block



Note: Offset (6.5dB) = 6dB Attenuator(6dB) + RF cable loss(0.5dB)

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	57 %
ATM Pressure:	96.3 kPa

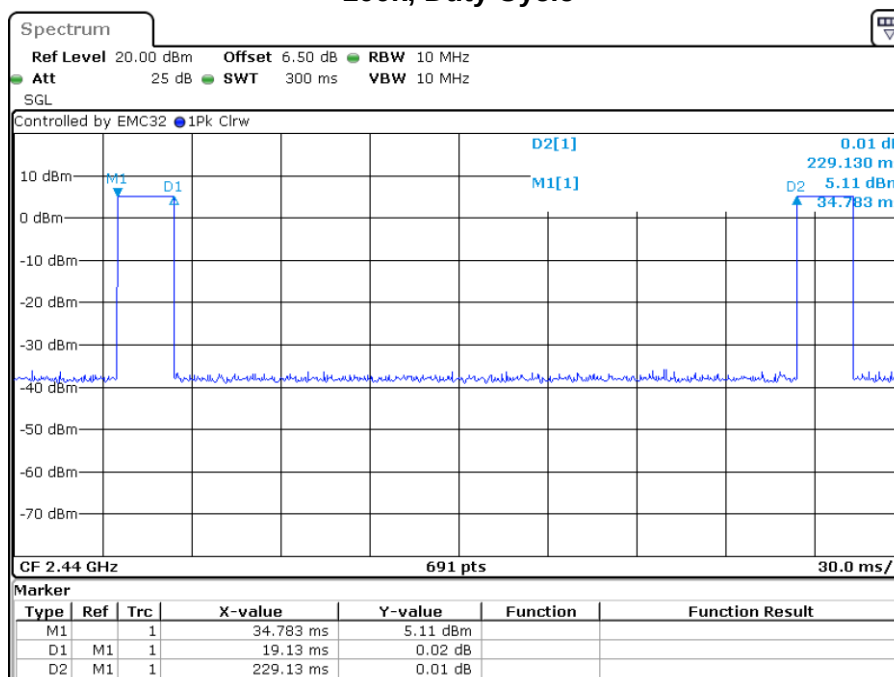
The testing was performed by Bob Chen on 2025-05-28.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

Mode	T_{on}	T_p	Duty Cycle	$1/T_{on}$	VBW Setting
	(ms)	(ms)	(%)	(kHz)	(kHz)
100k	19.13	229.13	19.13	0.05	1.0
1M	1.09	121.3	1.090	0.92	1.0
2M	1.087	228.986	1.087	0.92	1.0

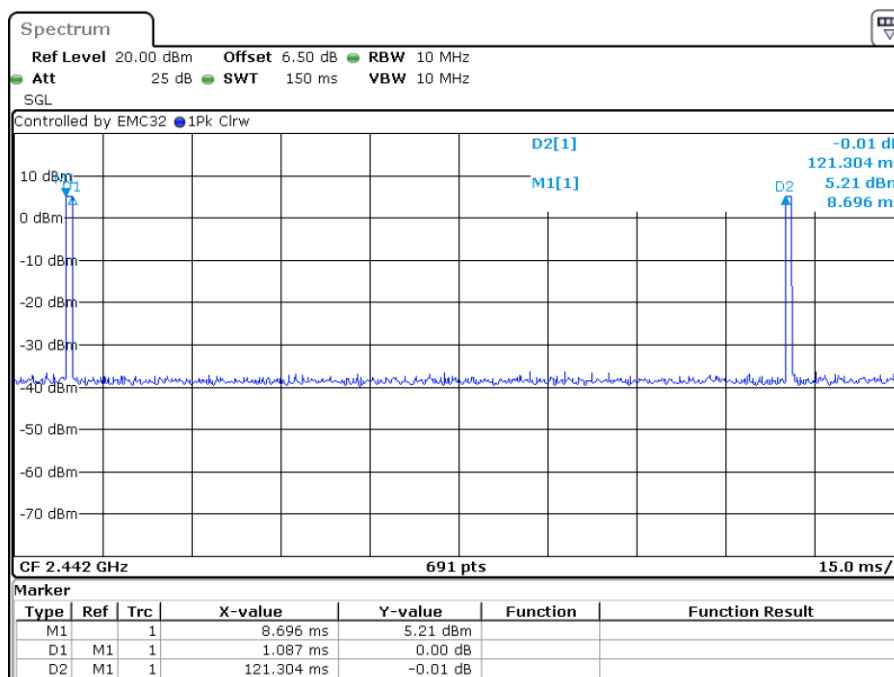
100k, Duty Cycle



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:04:50

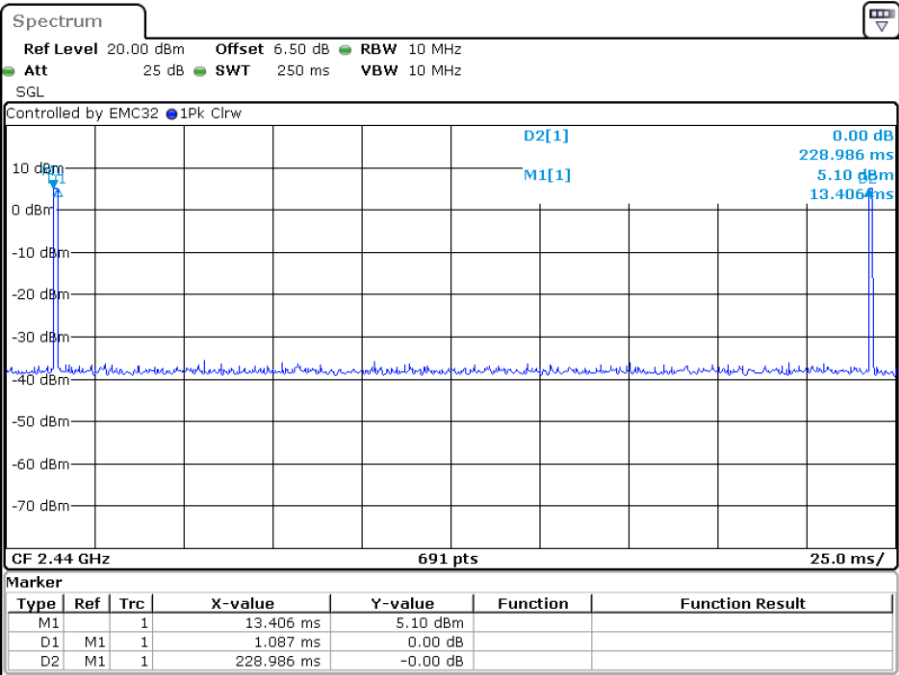
1M, Duty Cycle



Project No:RSC250522001-0 Tester:Bob Chen

Date: 28.MAY.2025 15:10:42

2M, Duty Cycle



Project No:RSC250522001-0 Tester:Bob Chen
Date: 28.MAY.2025 15:16:15

LABELLING AND LOCATION

Refer to EXHIBIT A.

TEST SETUP PHOTOGRAPHS

Refer to EXHIBIT D.

EUT PHOTOGRAPHS

Refer to EXHIBIT B & C.

END OF REPORT