



FCC Radio Test Report

FCC ID: 2ARJ5-ETAP05

This report concerns: Original Grant

Project No. : 2503C031
Equipment : ESL Access Point
Brand Name : ETGtag
Test Model : ETAP05
Series Model : N/A
Applicant : Suzhou Etag-Technology Corporation
Address : Room 236,2/F Ming De Building, No.166 Ren ai Road, Suzhou Industrial Park Suzhou ChinaPark
Manufacturer : Suzhou Etag-Technology Corporation
Address : Room 1506,building E,nanotechnology university sciene park,no.388 ruoshui road,Suzhou industrial park,Jiangsu province
Factory : Kunshan Quanbao electronic Co., LTD
Address : No.299, Jiguang South Road, Qiandeng Town, Kunshan City
Date of Receipt : Mar. 03, 2025
Date of Test : Mar. 06, 2025 ~ Mar. 21, 2025
Issued Date : Apr. 03, 2025
Report Version : R01
Test Sample : Engineering Sample No.: DG20250303165 for conducted, DG20250303164 for radiated and AC power line conducted.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Declaration

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BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2503C031	R00	Original Report.	Mar. 28, 2025	Invalid
BTL-FCCP-1-2503C031	R01	Modified the comments.	Apr. 03, 2025	Valid

1. APPLICABLE STANDARDS

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

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

(1) "N/A" denotes test is not applicable to this device.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report

1#For radiated above 30MHz: Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China

2#For others: 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 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 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_1 (dB)
DG-CB17 (3m)	CISPR	30MHz ~ 200MHz	V	4.22
		30MHz ~ 200MHz	H	3.46
		200MHz ~ 1,000MHz	V	5.02
		200MHz ~ 1,000MHz	H	4.22

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DG-CB17 (3m)	CISPR	1GHz ~ 6GHz	4.56
		6GHz ~ 18GHz	4.12

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DG-CB18 (1m)	CISPR	18 ~ 26.5 GHz	3.56

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	22°C	55%	AC 120V/60Hz	Hayden Chen	Mar. 18, 2025
Radiated Emissions-9 kHz to 30 MHz	22°C	46%	AC 120V/60Hz	Hayden Chen	Mar. 18, 2025
Radiated Emissions-30 MHz to 1000 MHz	25°C	46%	AC 120V/60Hz	Chen Mo	Mar. 15, 2025
Radiated Emissions-Above 1000 MHz	25°C	46%	AC 120V/60Hz	Calvin Wen	Mar. 18, 2025
	21°C	44%	AC 120V/60Hz	Calvin Wen	Mar. 20, 2025
	23°C	50%	AC 120V/60Hz	Allen Tong	Mar. 24, 2025
Bandwidth	25°C	51%	PoE 12V	Steve Zhou	Mar. 15, 2025
Maximum Output Power	25°C	51%	PoE 12V	Steve Zhou	Mar. 15, 2025
Conducted Spurious Emission	25°C	51%	PoE 12V	Steve Zhou	Mar. 15, 2025
Power Spectral Density	25°C	51%	PoE 12V	Steve Zhou	Mar. 15, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	ESL Access Point
Brand Name	ETGtag
Test Model	ETAP05
Series Model	N/A
Model Difference(s)	N/A
Software Version	1.0.7.23
Hardware Version	MD_AP05_BASE_V20 2025-01-06
Power Source	DC voltage supplied from AC adapter(Support units).
Power Rating	PoE 12V  1A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	Module 5: 2Mbps: 1.58 dBm (0.0014 W) Module 6: 1Mbps: -1.60 dBm (0.0007 W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4
2	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4
3	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4
4	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4
5	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4
6	Kunshan fengxun electronics co., ltd	008.ETS001062	PCB	IPEX	4

Note: Smart antenna system with six transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_2Mbps Channel 19

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 3	TX Mode_2Mbps Channel 19

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	TX Mode_2Mbps Channel 19

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 2Mbps Channel 19 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) The product supports six modules. Module 1 to 5 are the same and have been pretested, the worst case is module 5. In this report only tested and recorded the data of module 5 and module 6. Module 1 to 5 and module 6 can be transmission together.

3.3 PARAMETERS OF TEST SOFTWARE

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

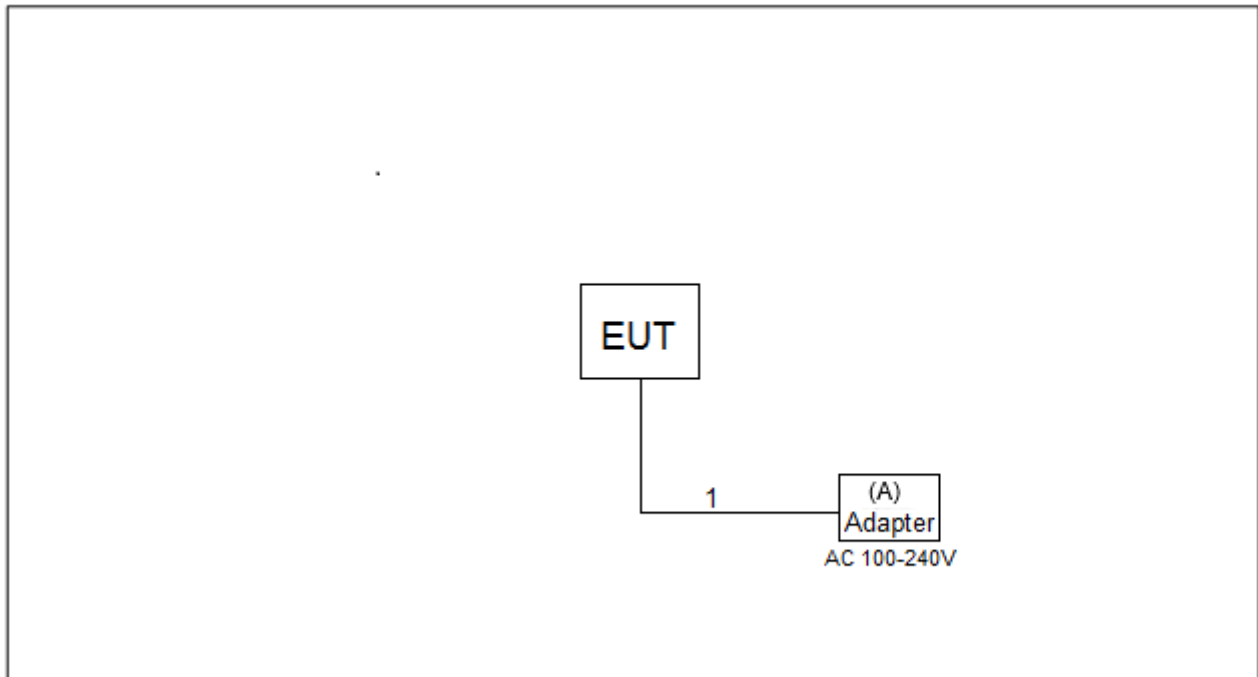
Module 5

Test Software Version	DemoTool 3.0		
Frequency (MHz)	2402	2440	2480
1Mbps	9	9	9
2Mbps	9	9	9

Module 6

Test Software Version	DemoTool 3.0		
Frequency (MHz)	2402	2440	2480
1Mbps	1F	1F	1F
2Mbps	1F	1F	1F

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Adapter	kailiyuan	K121-1201000C	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

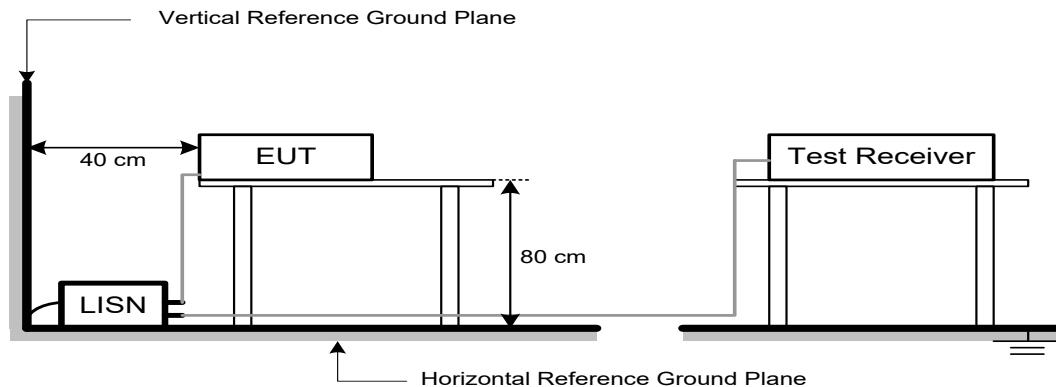
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

5. RADIATED EMISSIONS

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBμV/m)		Harmonic at 1m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value
- (5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

20log (d_{limit}/d_{measure})=20log (3/1)=9.5 dB.

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance.

d_{measure}: Harmonic Actual test distance.

5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m or 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

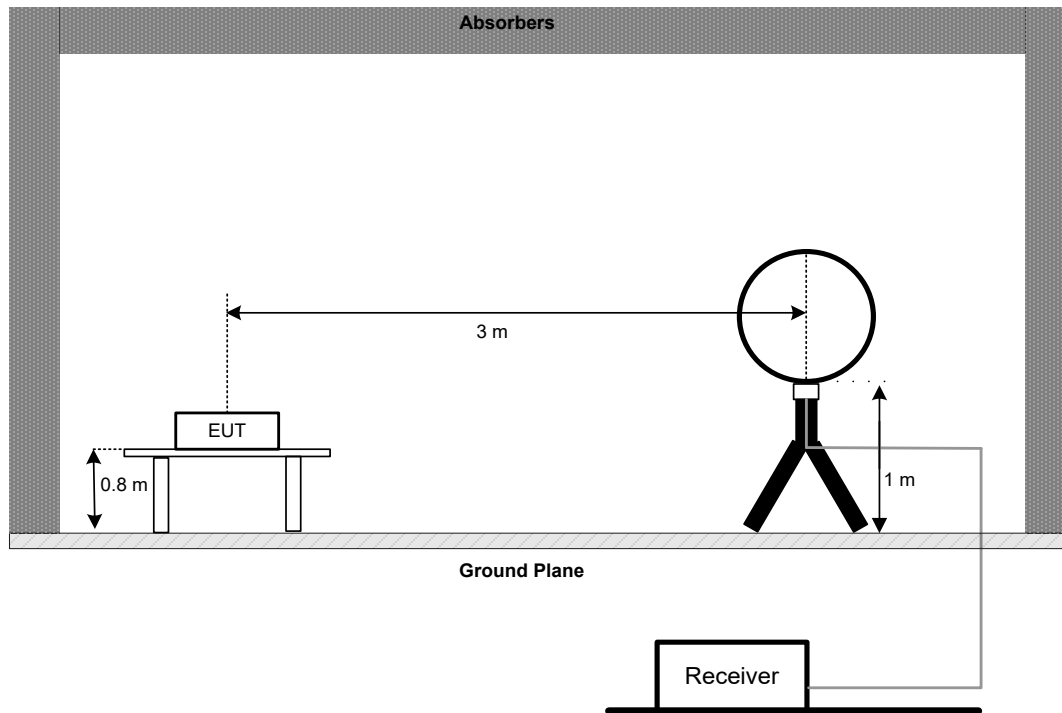
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

5.3 DEVIATION FROM TEST STANDARD

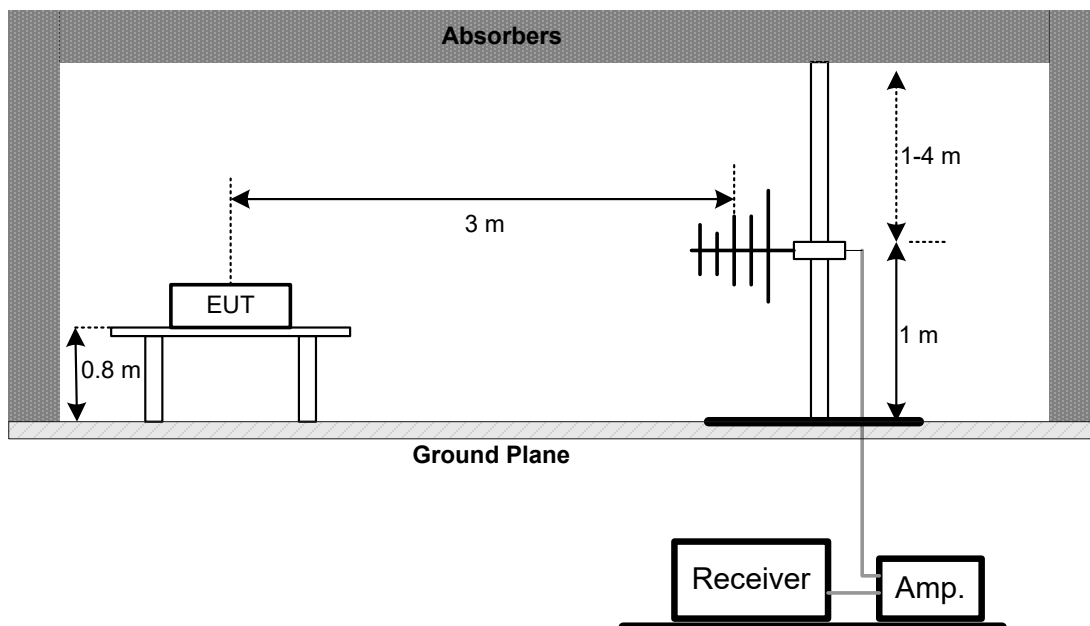
No deviation.

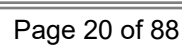
5.4 TEST SETUP

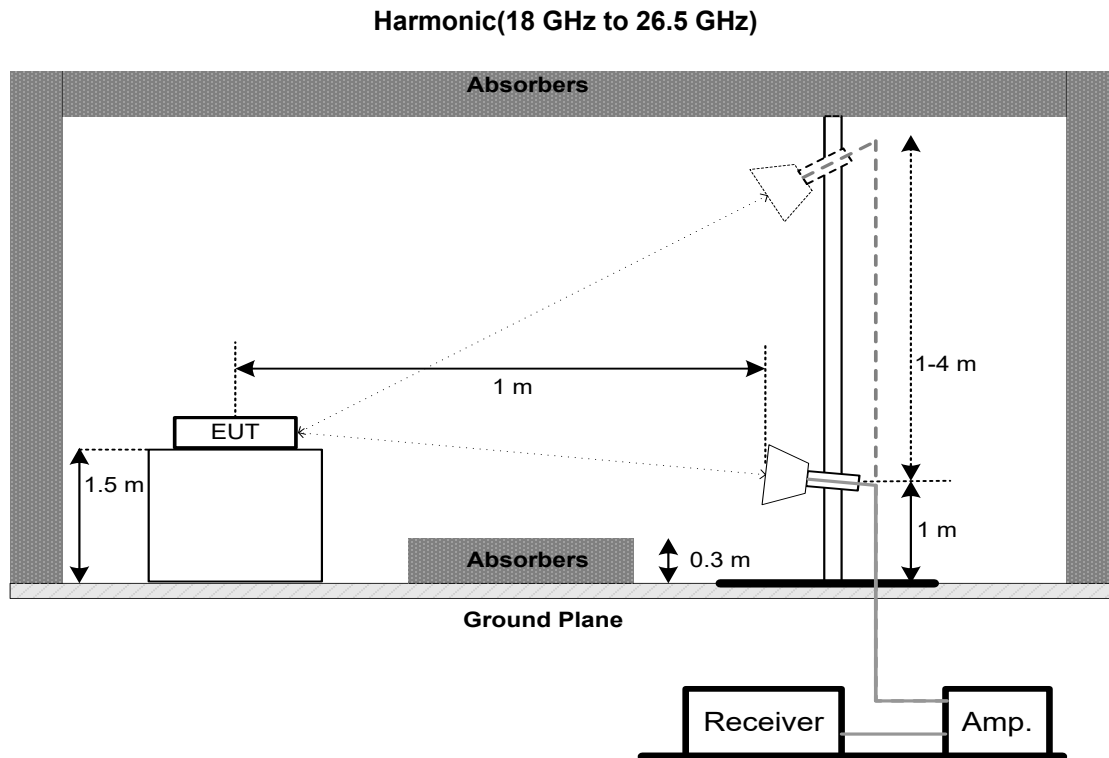
9 kHz to 30 MHz



30 MHz to 1 GHz







5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

6. BANDWIDTH

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz
	99% Emission Bandwidth	-

6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

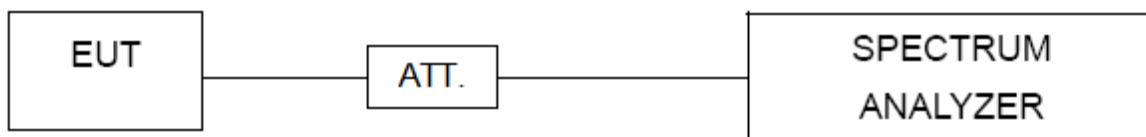
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	$\geq 3 \times \text{RBW}$
RBW	3 MHz
VBW	3 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. CONDUCTED SPURIOUS EMISSION

8.1 LIMIT

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

9. POWER SPECTRAL DENSITY

9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 11, 2025
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 06, 2025
3	Cable	N/A	RW4950-3.8A-NMSM -1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1587	Apr. 25, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06010	Apr. 25, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980865	Oct. 29, 2025
4	Cable	RegalWay	LMR400-NMNM-2.5m	N/A	Jan. 07, 2026
5	Cable	RegalWay	LMR400-NMNM-7m	N/A	Jan. 07, 2026
6	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jan. 07, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	ETS	9*6*6	N/A	Jan. 02, 2026

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
2	Cable	RegalWay	RWLP50-4.0A-SMSM -1.3M-KJ	N/A	Jan. 07, 2026
3	Cable	RegalWay	RWLP50-2.6A-3.5M2. 92MRA-3M	N/A	Jan. 07, 2026
4	Cable	RegalWay	RWLP50-4.0A-SMSM -9M	N/A	Jan. 07, 2026
5	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980878	Nov. 25, 2025
6	966 Chamber room	ETS	9*6*6	N/A	Jan. 03, 2026
7	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
10	Filter	STI	STI15-9912	N/A	May. 31, 2025

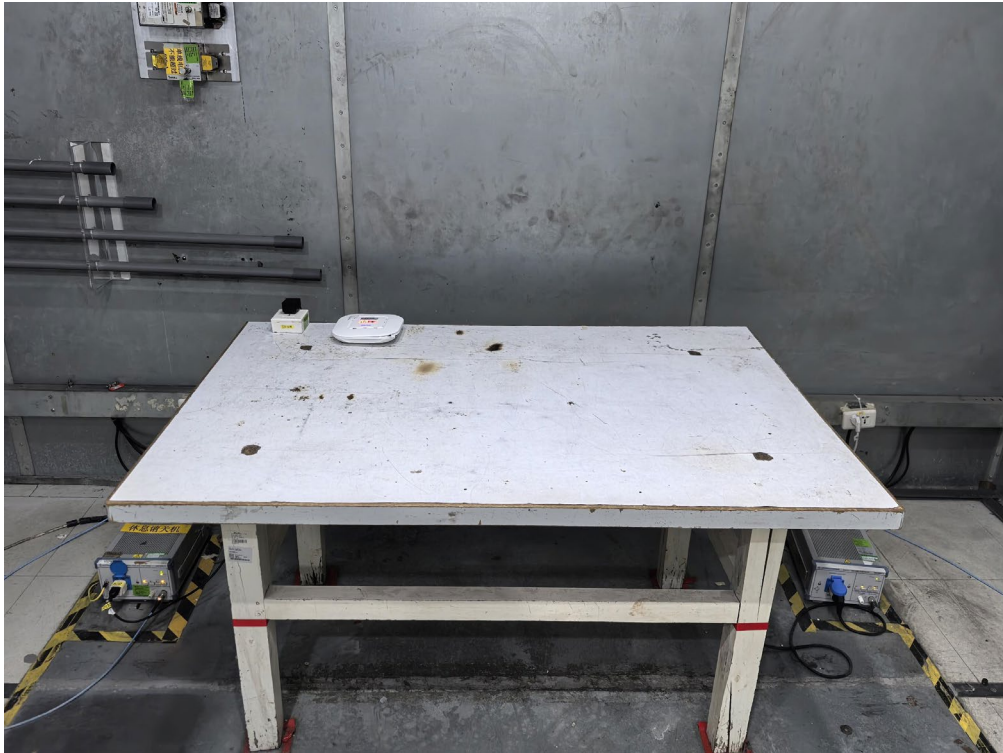
Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct. 29, 2025
4	966 Chamber room	ETS	RFD-100 (SVSWR)	Q2179	Jan. 07, 2026
5	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-2M	N/A	Jan. 07, 2026
6	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MMRA-6M	N/A	Jan. 07, 2026
7	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 20, 2025
8	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025

Bandwidth & Maximum Output Power & Power Spectral Density & Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

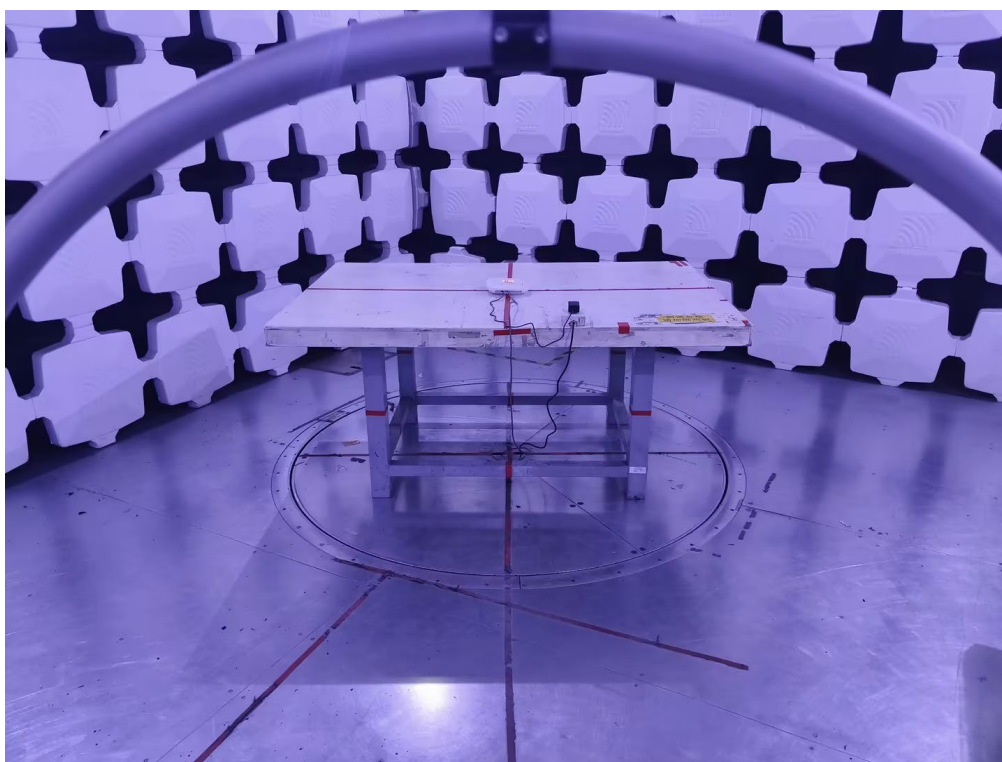
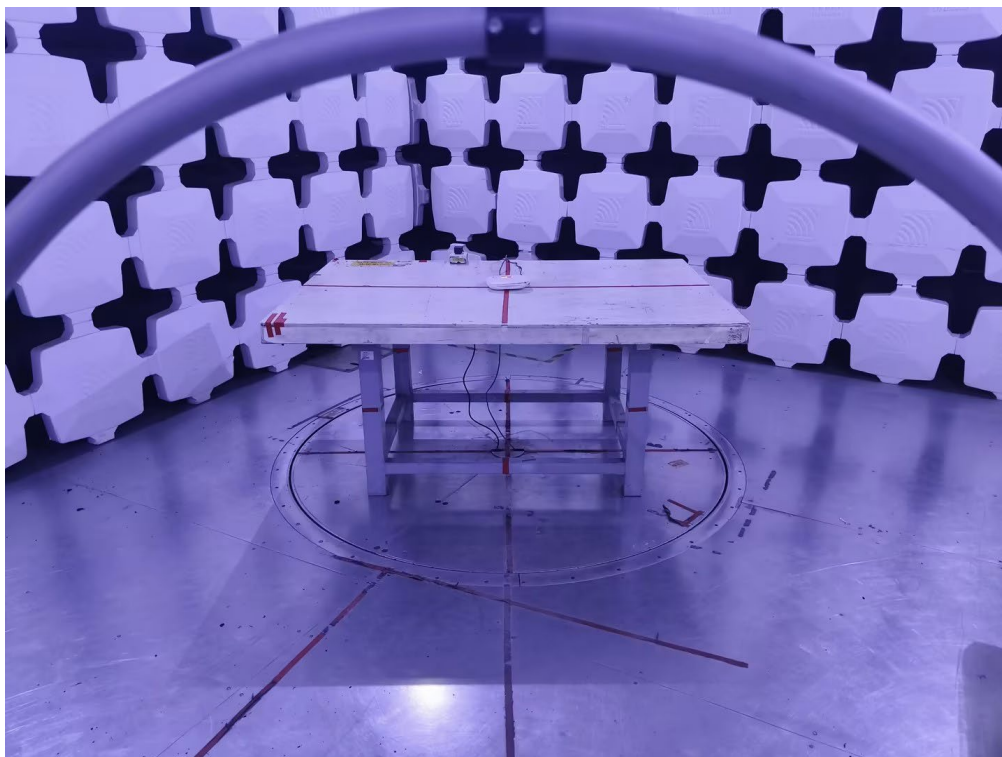
11. EUT TEST PHOTO

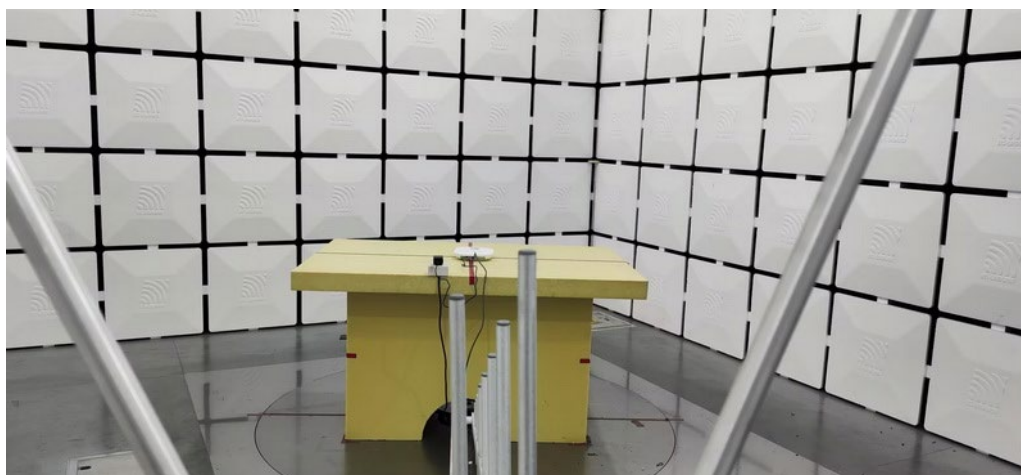
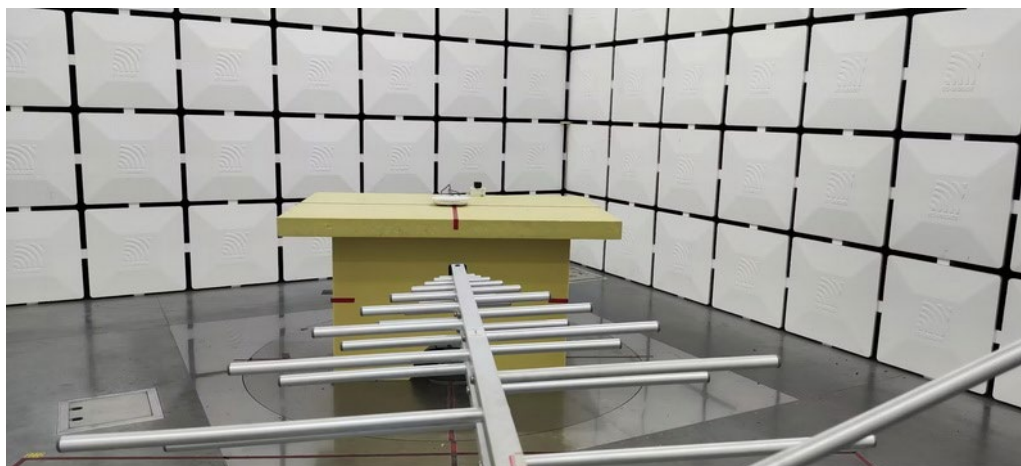
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

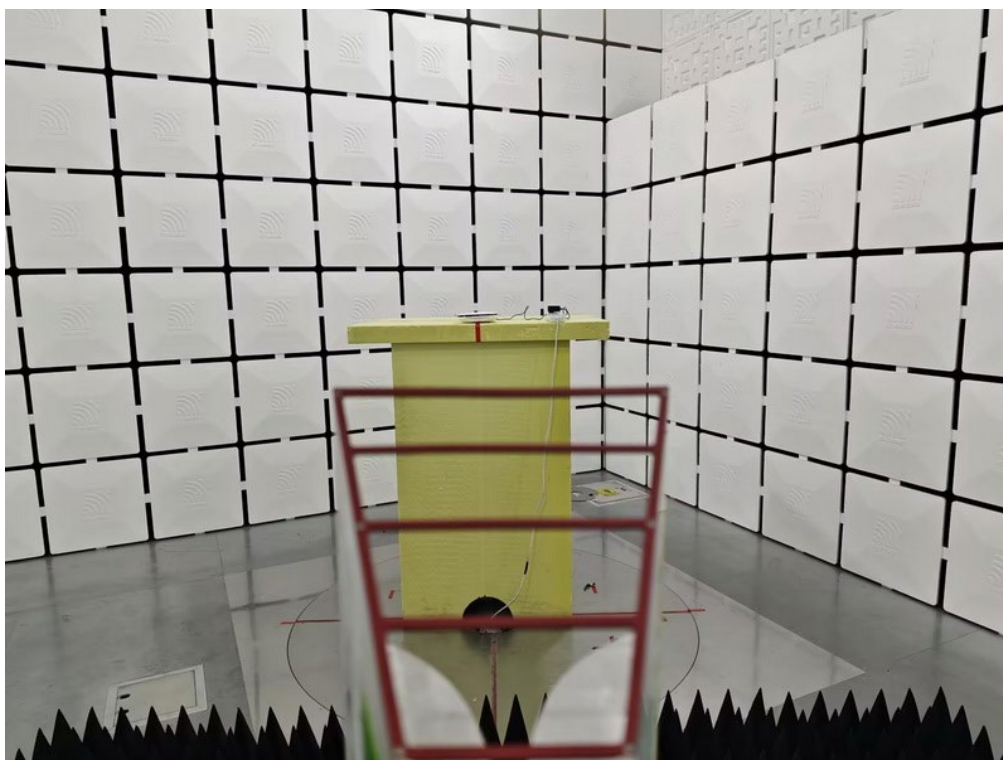
9 kHz to 30 MHz



Radiated Emissions Test Photos**30 MHz to 1000 MHz**

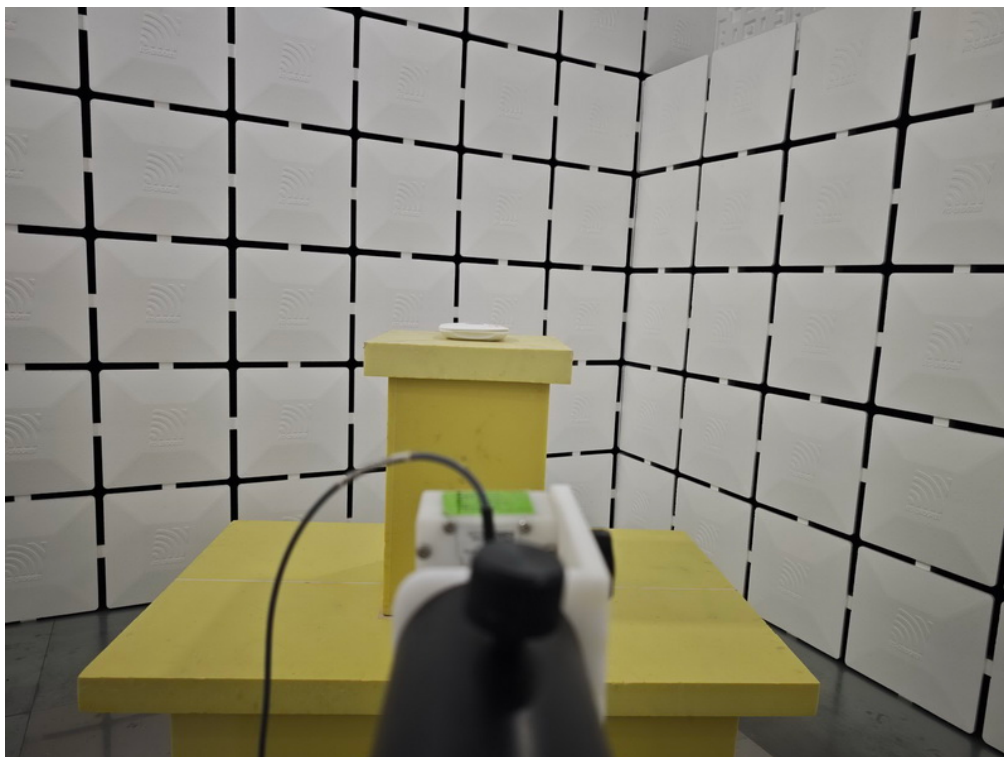
Radiated Emissions Test Photos

1 GHz to 18 GHz

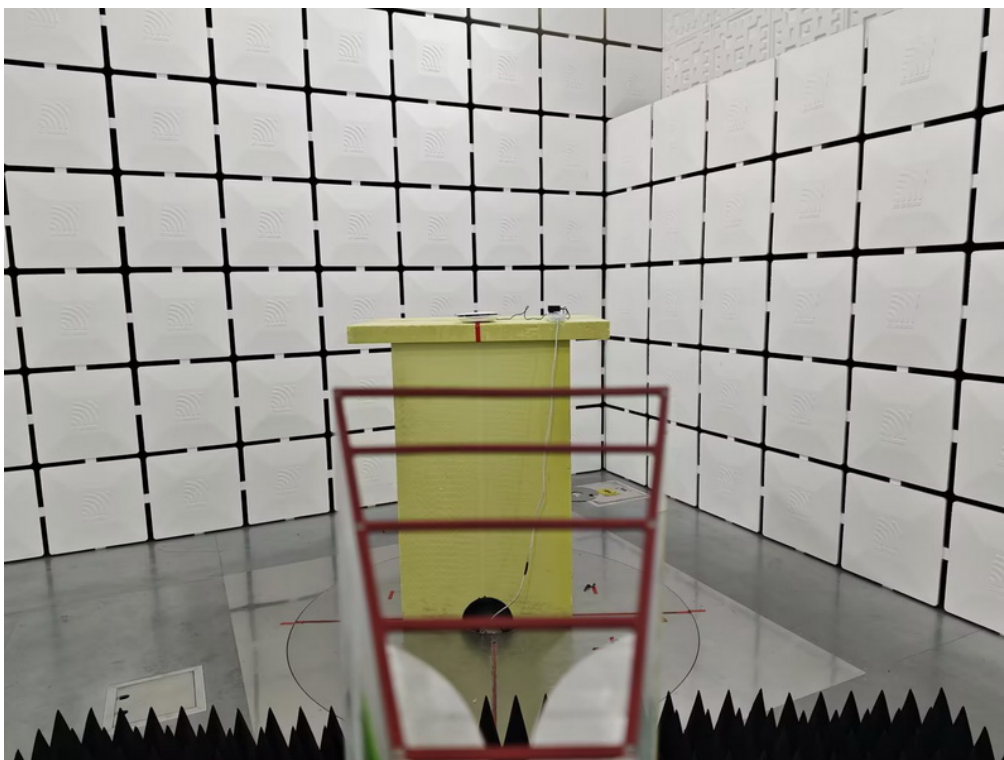
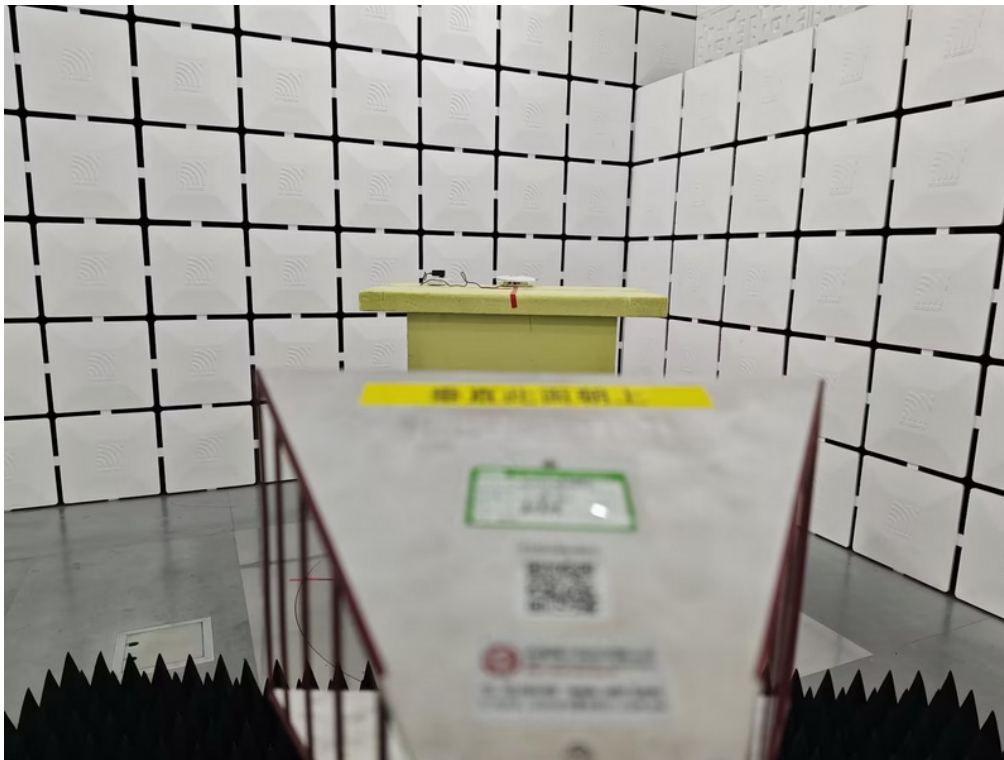


Radiated Emissions Test Photos

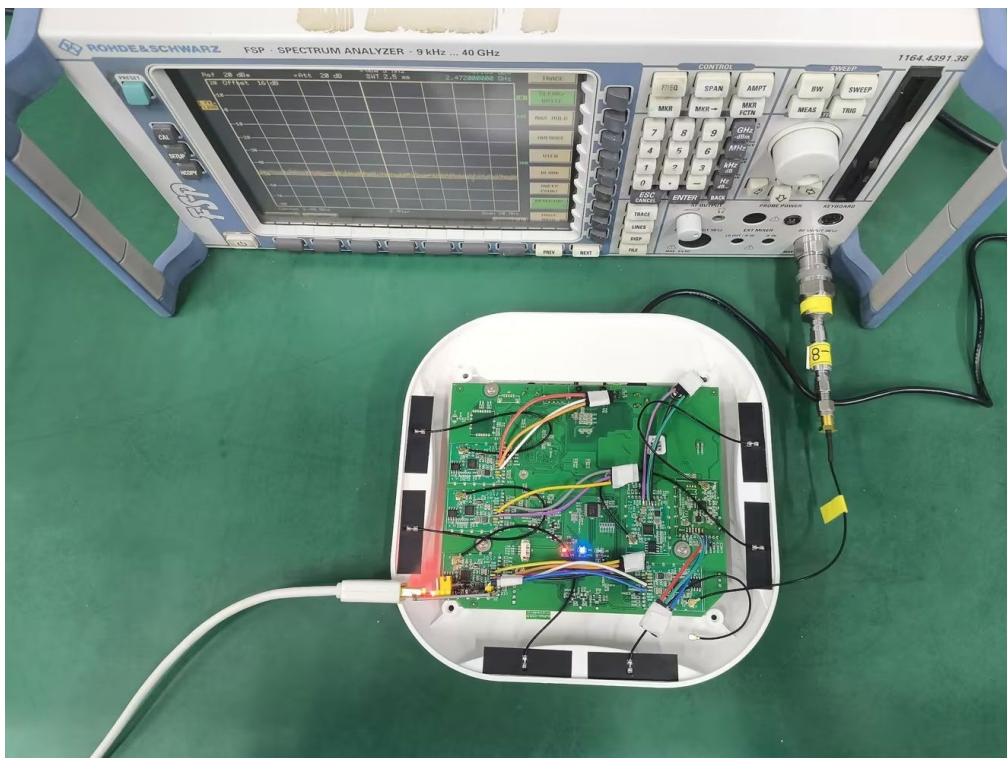
18 GHz to 26.5 GHz



Band Edge Test Photos

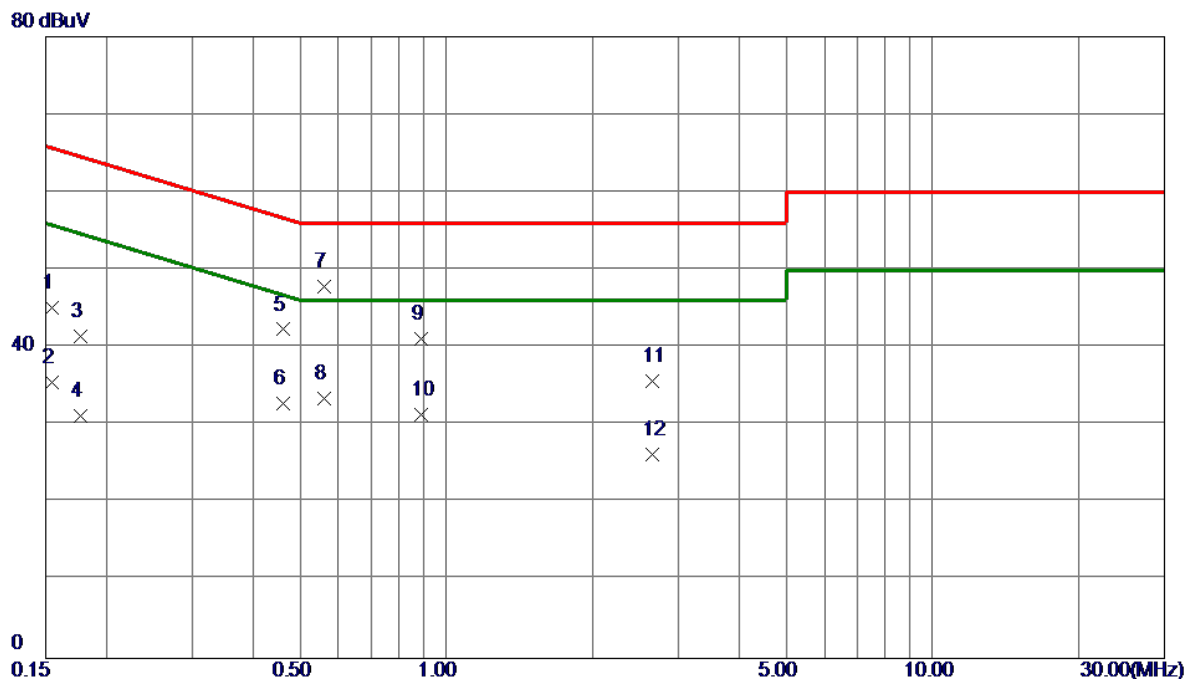


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX Mode_2Mbps Channel 19	Phase	Line
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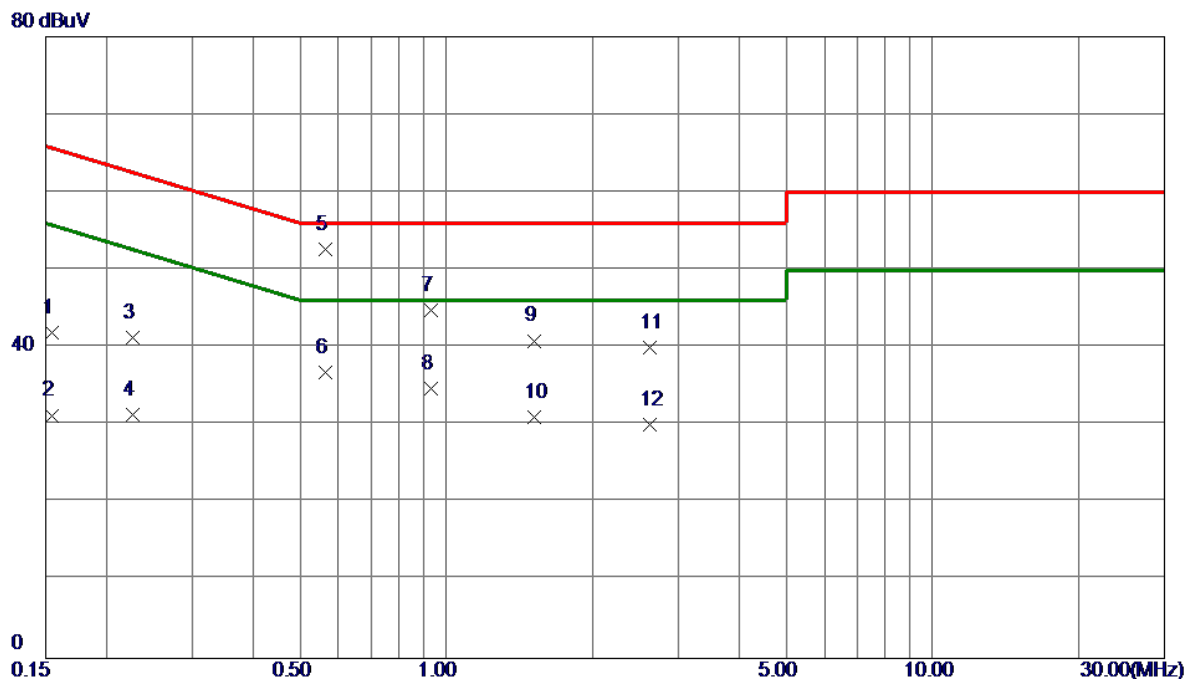


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	35.23	9.90	45.13	65.75	-20.62	QP	
2	0.1545	25.61	9.90	35.51	55.75	-20.24	AVG	
3	0.1770	31.53	9.92	41.45	64.63	-23.18	QP	
4	0.1770	21.30	9.92	31.22	54.63	-23.41	AVG	
5	0.4605	32.37	9.95	42.32	56.68	-14.36	QP	
6	0.4605	22.81	9.95	32.76	46.68	-13.92	AVG	
7 *	0.5595	37.91	9.97	47.88	56.00	-8.12	QP	
8	0.5595	23.41	9.97	33.38	46.00	-12.62	AVG	
9	0.8880	31.10	10.03	41.13	56.00	-14.87	QP	
10	0.8880	21.30	10.03	31.33	46.00	-14.67	AVG	
11	2.6565	25.37	10.29	35.66	56.00	-20.34	QP	
12	2.6565	15.91	10.29	26.20	46.00	-19.80	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Phase	Neutral
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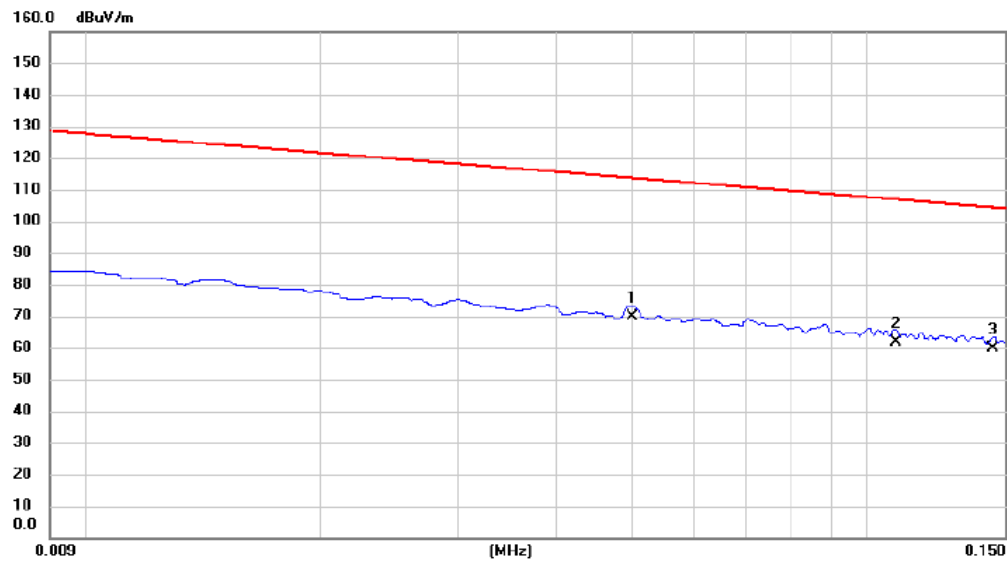
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	31.99	9.97	41.96	65.75	-23.79	QP	
2	0.1545	21.31	9.97	31.28	55.75	-24.47	AVG	
3	0.2265	31.34	9.98	41.32	62.58	-21.26	QP	
4	0.2265	21.40	9.98	31.38	52.58	-21.20	AVG	
5 *	0.5639	42.68	10.03	52.71	56.00	-3.29	QP	
6	0.5639	26.71	10.03	36.74	46.00	-9.26	AVG	
7	0.9285	34.74	10.08	44.82	56.00	-11.18	QP	
8	0.9285	24.60	10.08	34.68	46.00	-11.32	AVG	
9	1.5135	30.70	10.18	40.88	56.00	-15.12	QP	
10	1.5135	20.90	10.18	31.08	46.00	-14.92	AVG	
11	2.6204	29.59	10.34	39.93	56.00	-16.07	QP	
12	2.6204	19.80	10.34	30.14	46.00	-15.86	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Ant 0°
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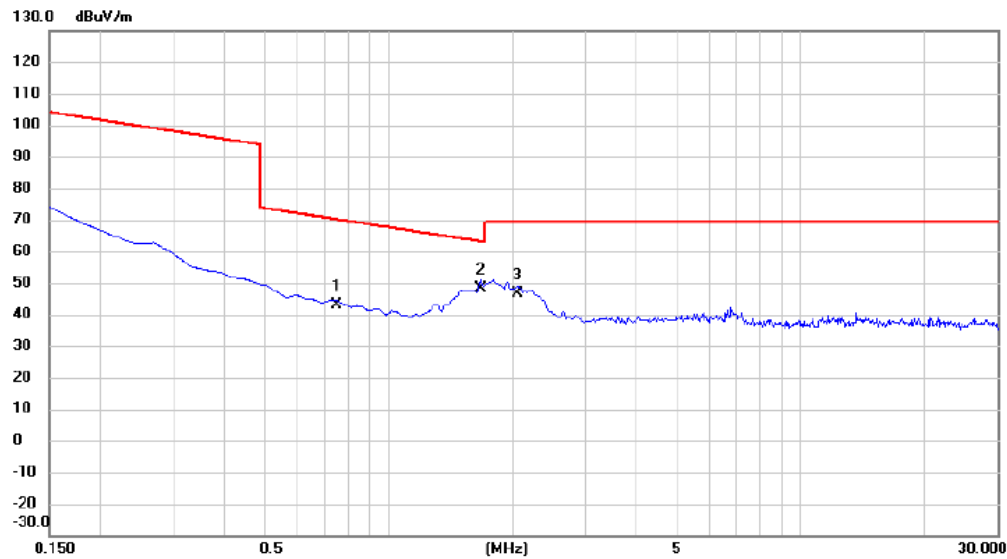


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0500	48.37	21.24	69.61	113.63	-44.02	AVG	
2		0.1087	40.64	21.33	61.97	106.88	-44.91	QP	
3		0.1450	38.58	21.27	59.85	104.38	-44.53	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Ant 0°
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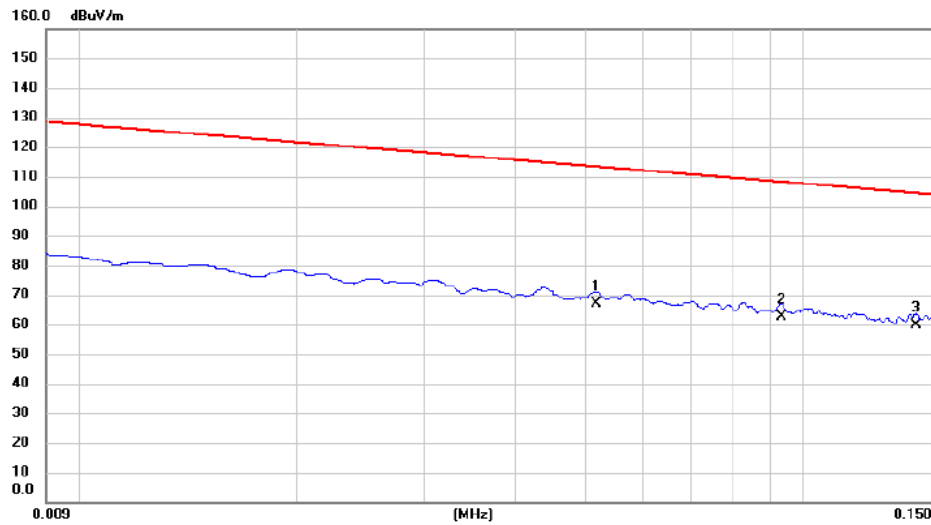
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.7470	21.97	21.14	43.11	70.14	-27.03	QP	
2	*	1.6724	27.16	21.14	48.30	63.14	-14.84	QP	
3		2.0604	25.34	21.11	46.45	69.54	-23.09	QP	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Ant 90°
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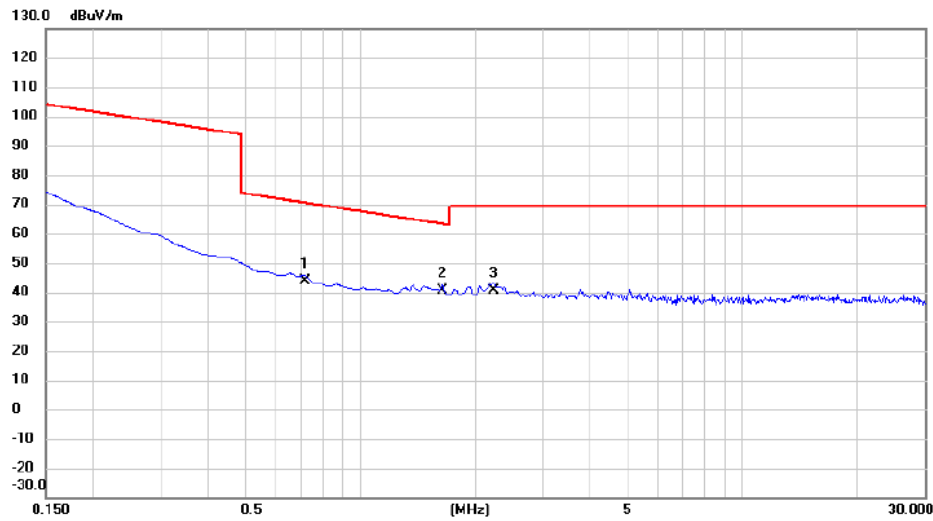
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0517	45.85	21.25	67.10	113.34	-46.24	AVG	
2		0.0933	41.22	21.34	62.56	108.21	-45.65	QP	
3	*	0.1431	38.51	21.28	59.79	104.49	-44.70	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Ant 90°
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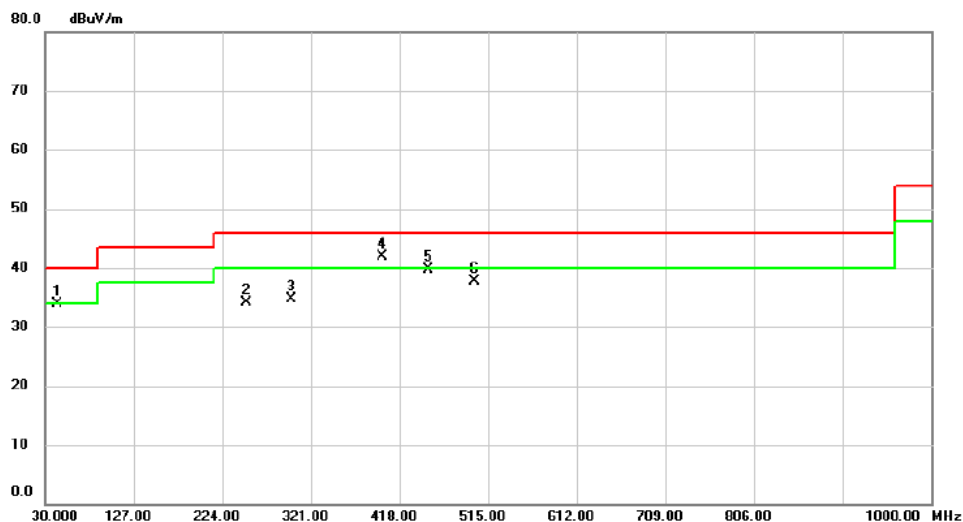
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.7171	22.69	21.13	43.82	70.49	-26.67	QP	
2 *	1.6425	19.39	21.15	40.54	63.29	-22.75	QP	
3	2.2395	19.68	21.11	40.79	69.54	-28.75	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Vertical
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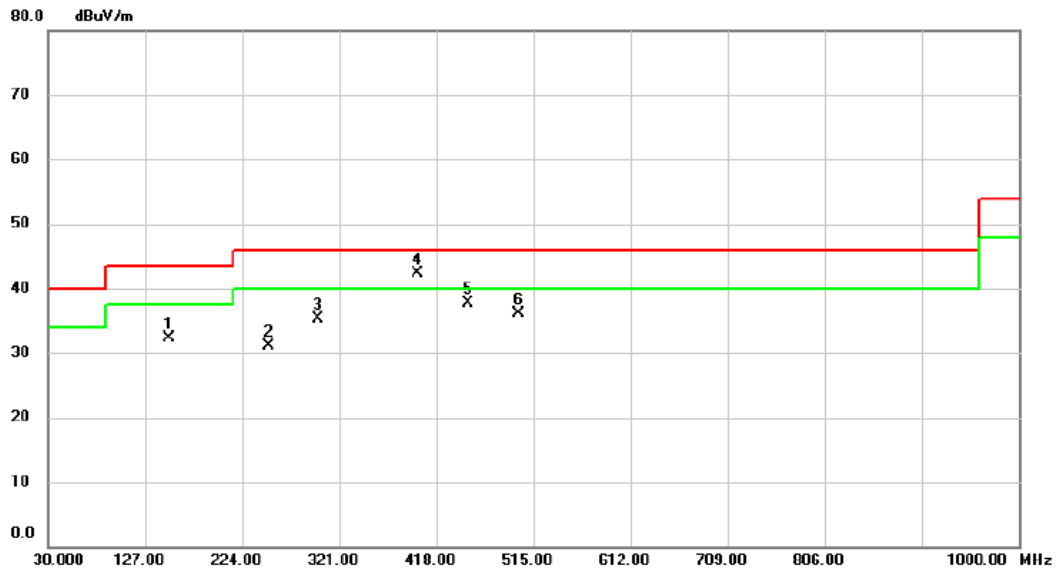


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		43.580	45.55	-11.72	33.83	40.00	-6.17	peak	
2		250.190	46.76	-12.65	34.11	46.00	-11.89	peak	
3		299.660	45.65	-10.92	34.73	46.00	-11.27	peak	
4	*	399.570	50.49	-8.64	41.85	46.00	-4.15	peak	
5		450.010	46.81	-7.12	39.69	46.00	-6.31	peak	
6		500.450	43.85	-6.23	37.62	46.00	-8.38	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Horizontal
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	151.250	43.59	-11.31	32.28	43.50	-11.22	peak	
2	250.190	43.79	-12.65	31.14	46.00	-14.86	peak	
3	299.660	46.30	-10.92	35.38	46.00	-10.62	peak	
4 *	399.570	50.86	-8.64	42.22	46.00	-3.78	peak	
5	450.010	44.81	-7.12	37.69	46.00	-8.31	peak	
6	500.450	42.43	-6.23	36.20	46.00	-9.80	peak	

REMARKS:

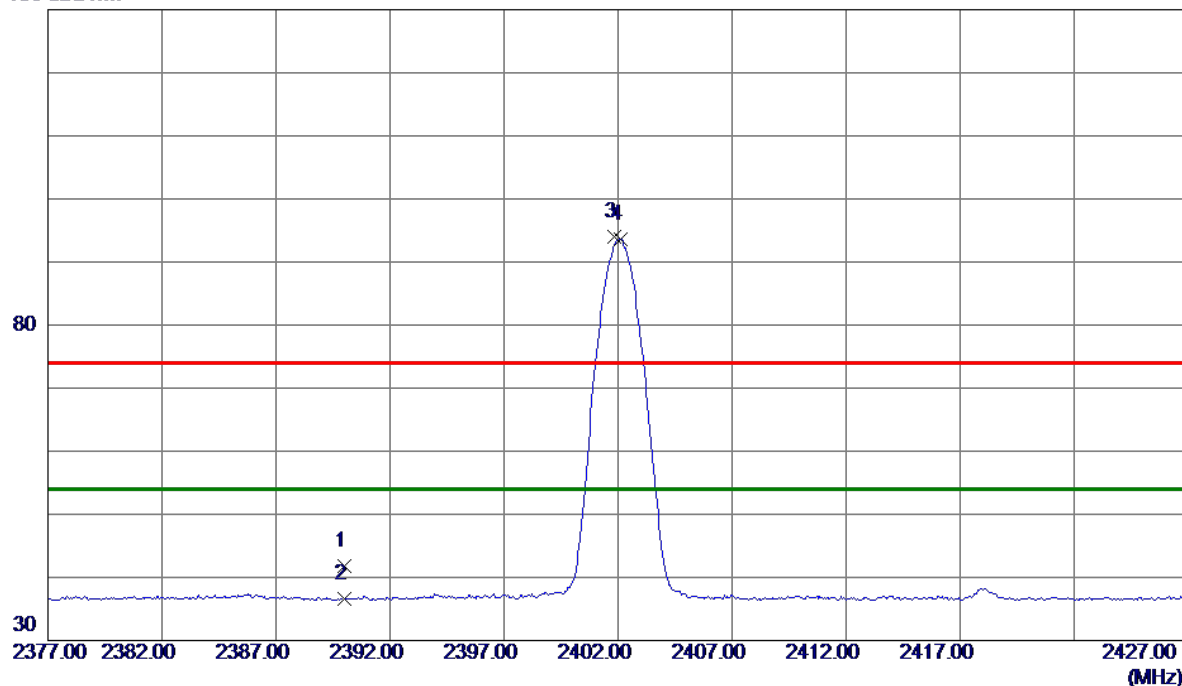
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Module 5

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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130 dBuV/m



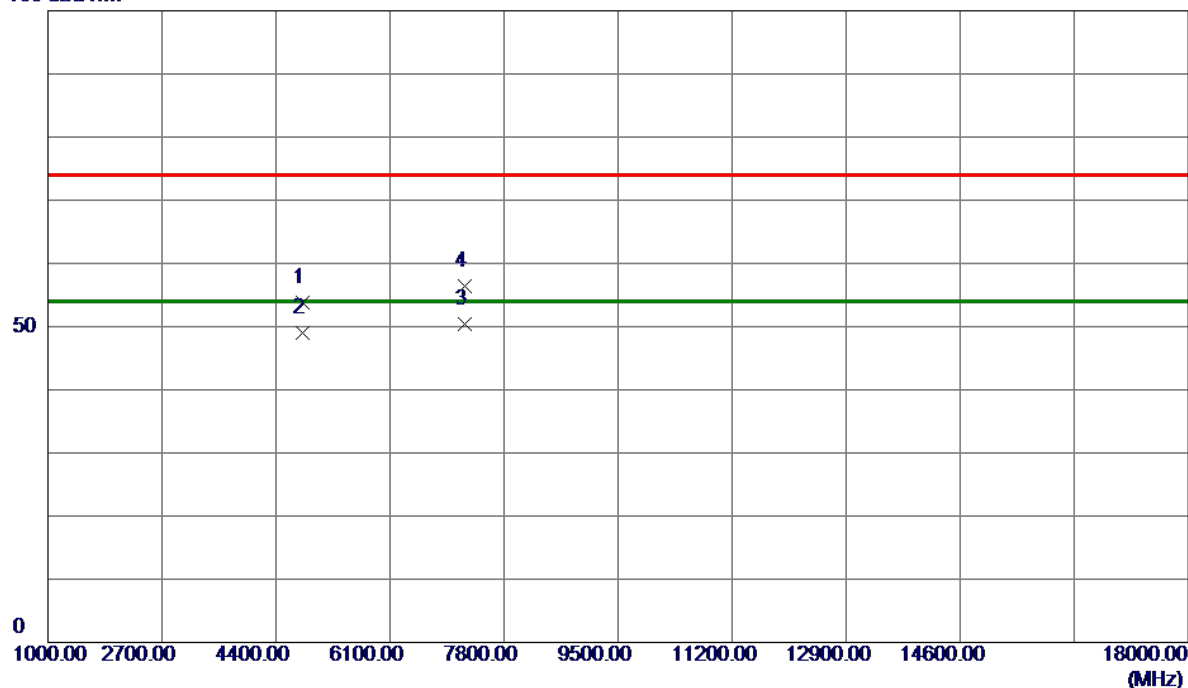
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.89	6.93	41.82	74.00	-32.18	Peak	
2	2390.0000	29.60	6.93	36.53	54.00	-17.47	AVG	
3	2401.8500	87.09	6.97	94.06	74.00	20.06	Peak	No Limit
4 *	2402.1000	86.66	6.97	93.63	54.00	39.63	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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100 dBuV/m



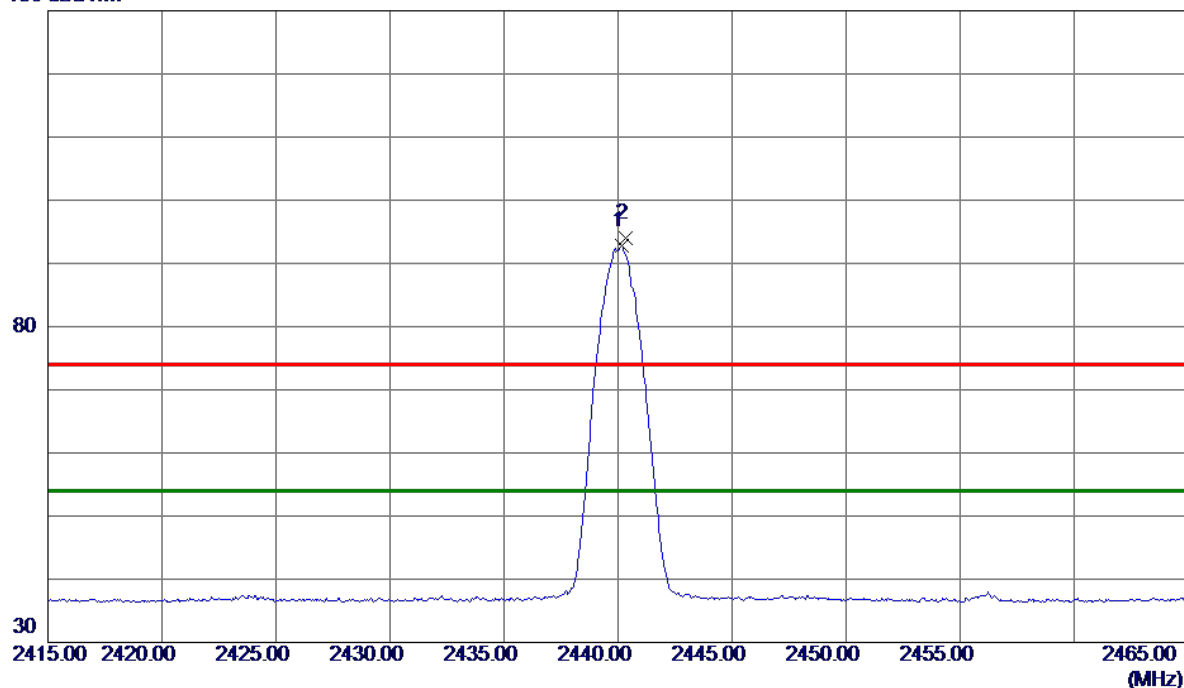
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4803.6000	49.97	3.78	53.75	74.00	-20.25	Peak	
2	4804.0600	45.18	3.78	48.96	54.00	-5.04	AVG	
3 *	7205.6200	41.07	9.27	50.34	54.00	-3.66	AVG	
4	7206.8600	47.16	9.27	56.43	74.00	-17.57	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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130 dBuV/m



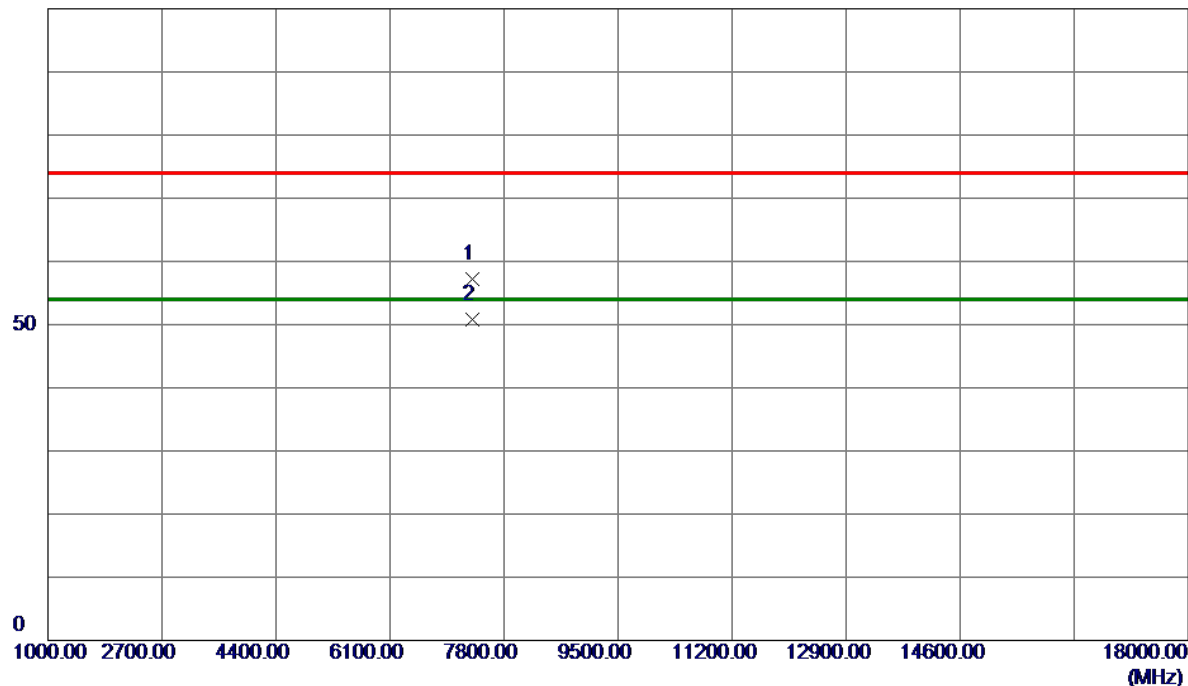
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2440.1500	85.63	7.09	92.72	54.00	38.72	AVG	No Limit
2	2440.3500	86.93	7.09	94.02	74.00	20.02	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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100 dBuV/m



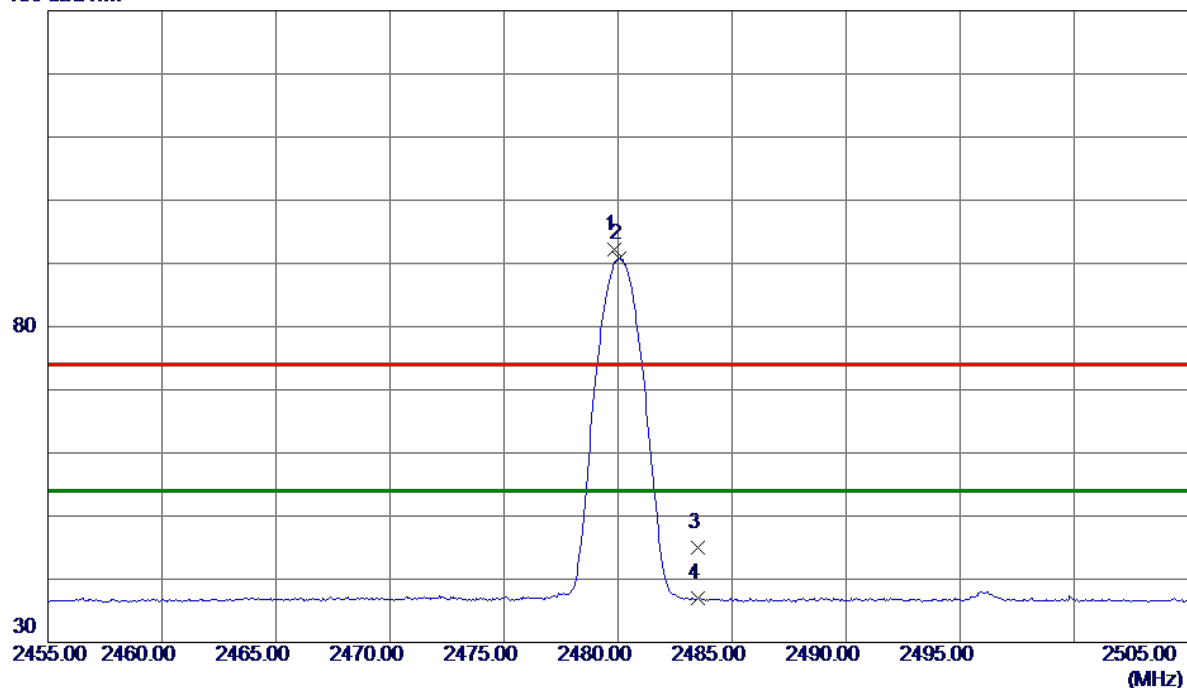
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7319.4800	47.84	9.36	57.20	74.00	-16.80	Peak	
2 *	7319.6000	41.48	9.36	50.84	54.00	-3.16	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	84.97	7.22	92.19	74.00	18.19	Peak	No Limit
2 *	2480.0500	83.66	7.22	90.88	54.00	36.88	AVG	No Limit
3	2483.5000	37.68	7.23	44.91	74.00	-29.09	Peak	
4	2483.5000	29.70	7.23	36.93	54.00	-17.07	AVG	

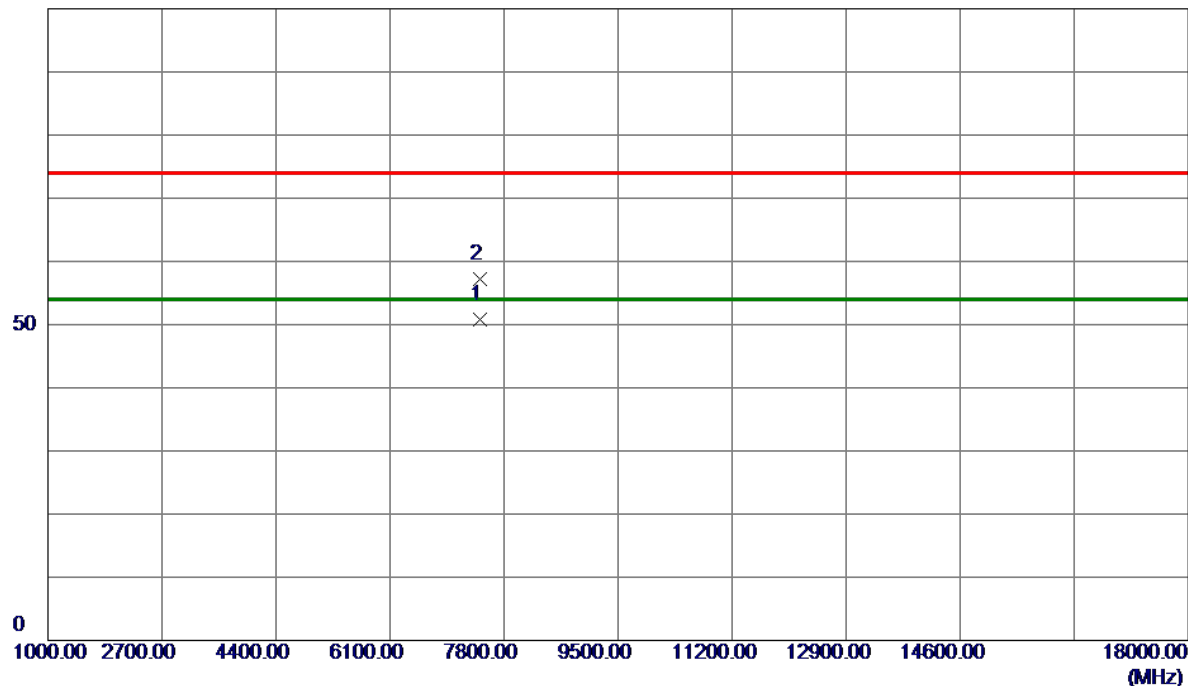
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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100 dBuV/m



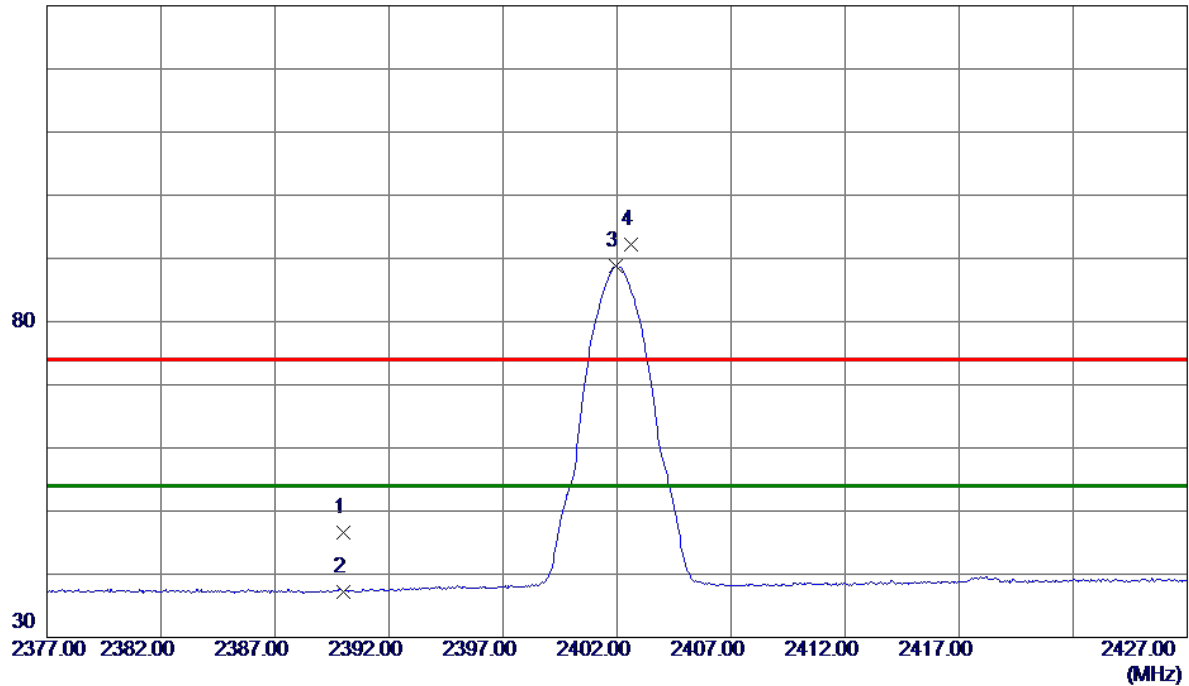
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7439.6000	41.29	9.46	50.75	54.00	-3.25	AVG	
2	7441.1000	47.80	9.46	57.26	74.00	-16.74	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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130 dBuV/m



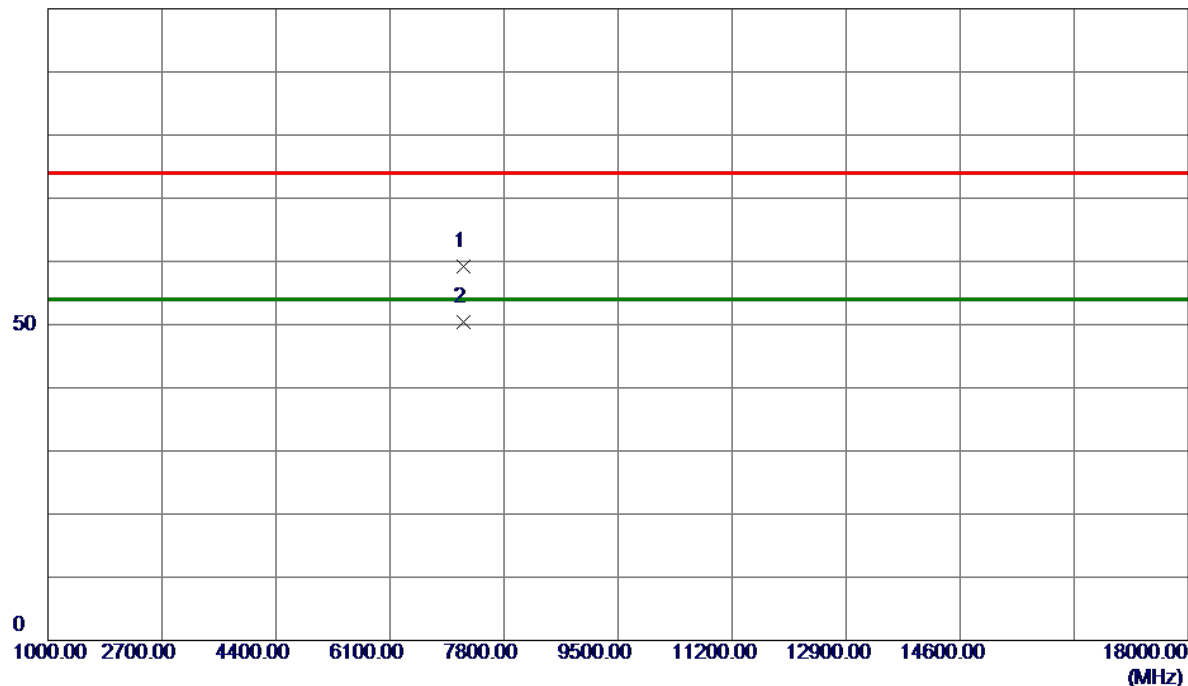
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.58	6.93	46.51	74.00	-27.49	Peak	
2	2390.0000	30.33	6.93	37.26	54.00	-16.74	AVG	
3 *	2401.9500	81.84	6.97	88.81	54.00	34.81	AVG	No Limit
4	2402.6000	85.22	6.97	92.19	74.00	18.19	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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100 dBuV/m



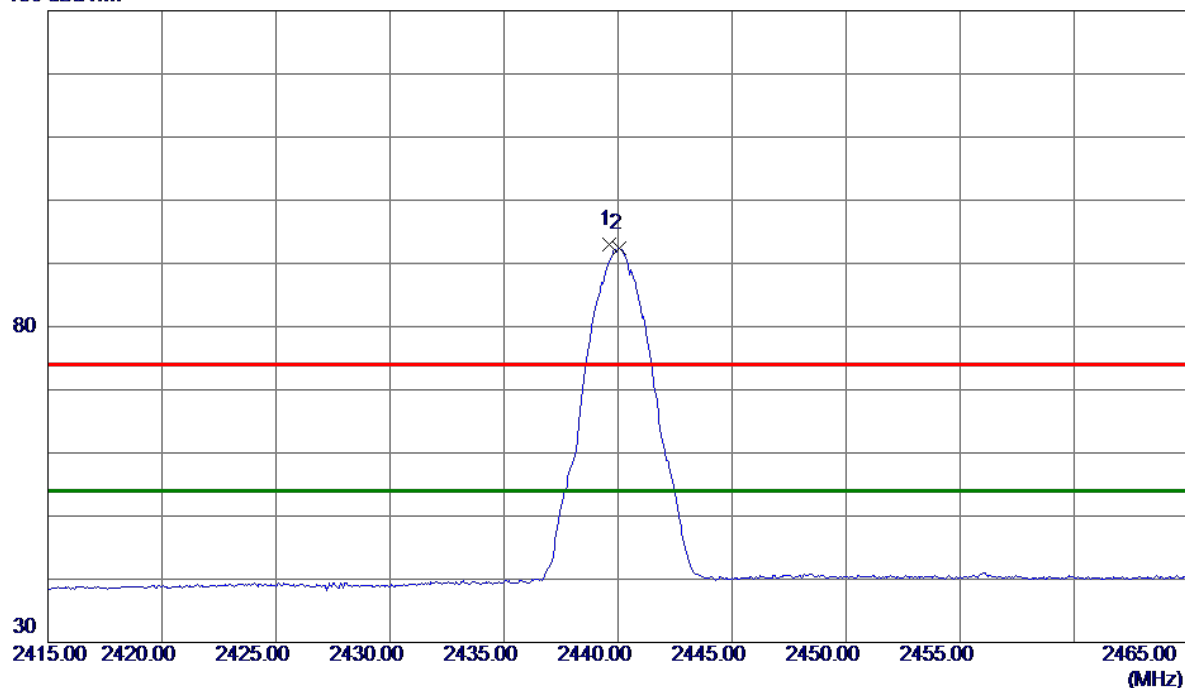
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7204.6400	49.88	9.27	59.15	74.00	-14.85	Peak	
2 *	7204.9400	41.21	9.27	50.48	54.00	-3.52	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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130 dBuV/m



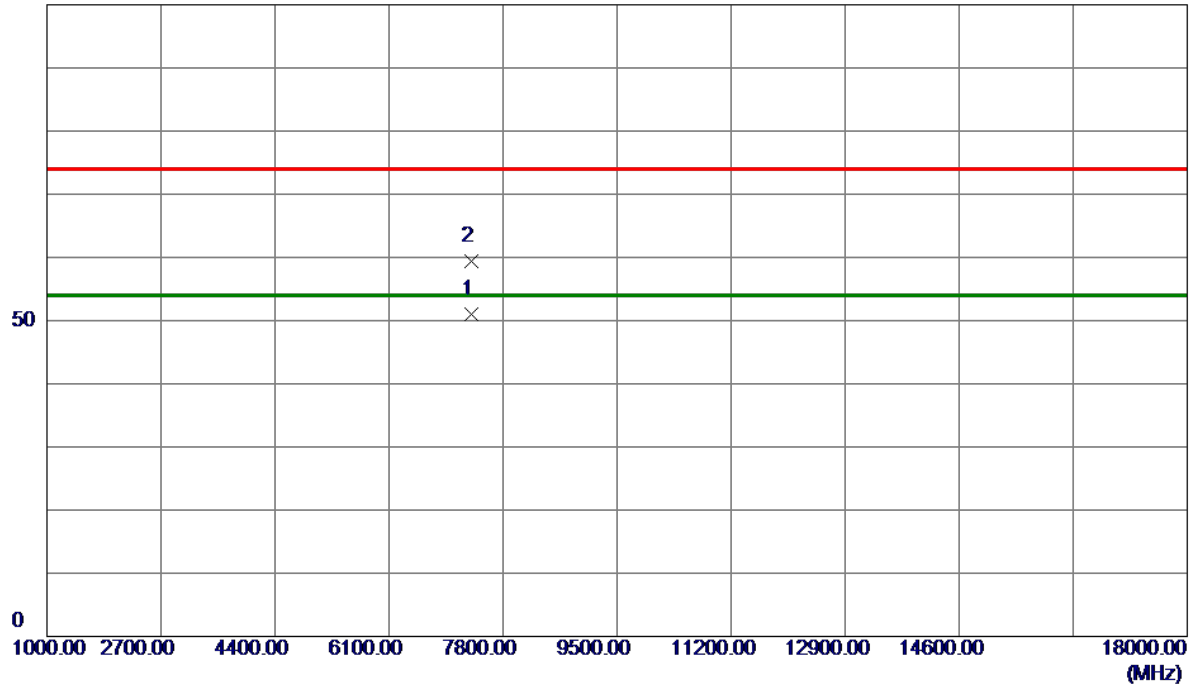
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.6000	85.96	7.09	93.05	74.00	19.05	Peak	No Limit
2 *	2440.0500	85.32	7.09	92.41	54.00	38.41	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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100 dBuV/m



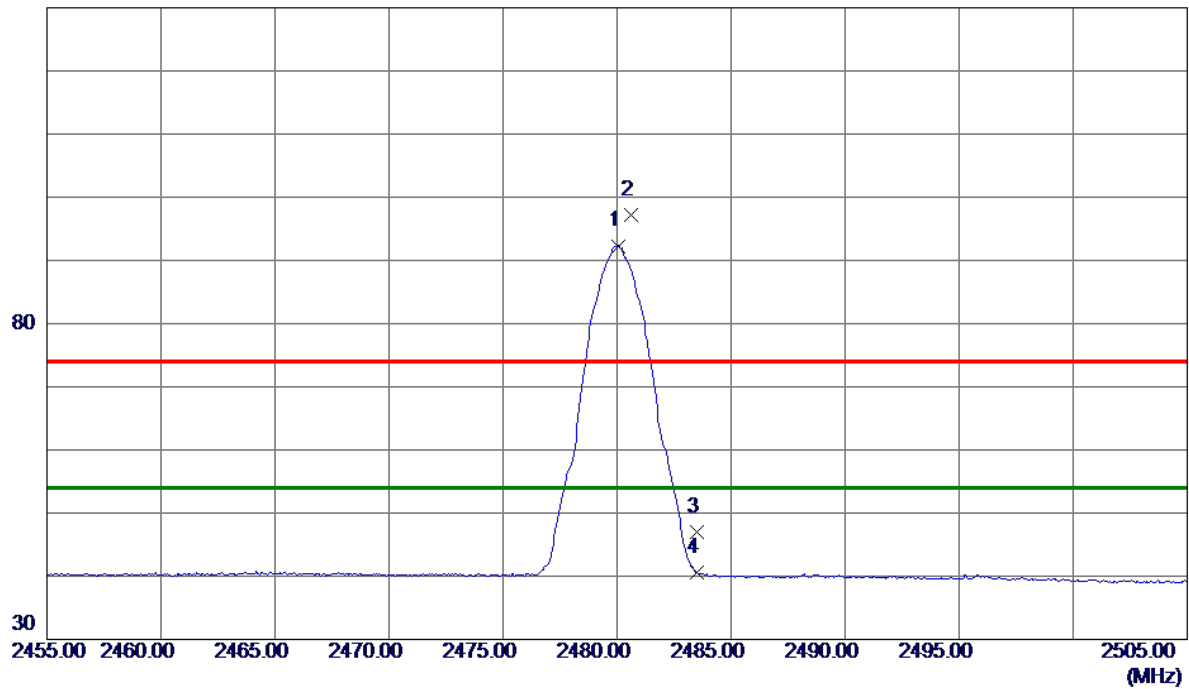
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7318.9400	41.59	9.36	50.95	54.00	-3.05	AVG	
2	7321.6600	49.97	9.36	59.33	74.00	-14.67	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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130 dBuV/m



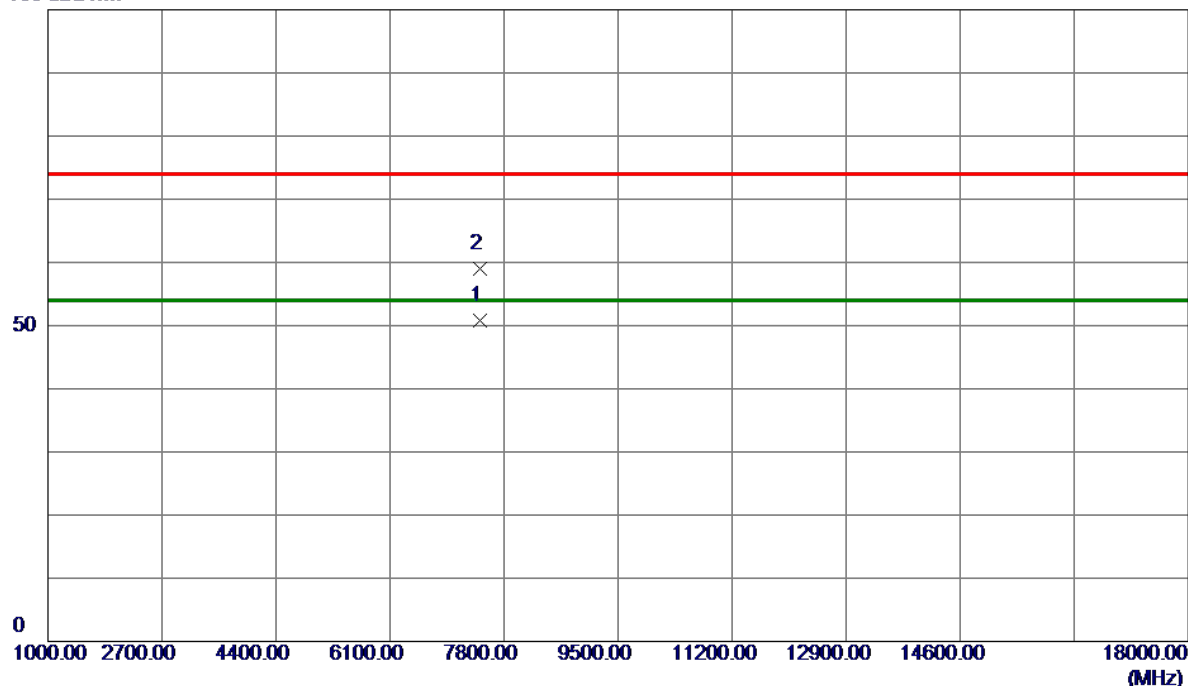
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0500	85.08	7.22	92.30	54.00	38.30	AVG	No Limit
2	2480.6000	89.95	7.22	97.17	74.00	23.17	Peak	No Limit
3	2483.5000	39.86	7.23	47.09	74.00	-26.91	Peak	
4	2483.5000	33.32	7.23	40.55	54.00	-13.45	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7438.9800	41.25	9.46	50.71	54.00	-3.29	AVG	
2	7441.5800	49.58	9.46	59.04	74.00	-14.96	Peak	

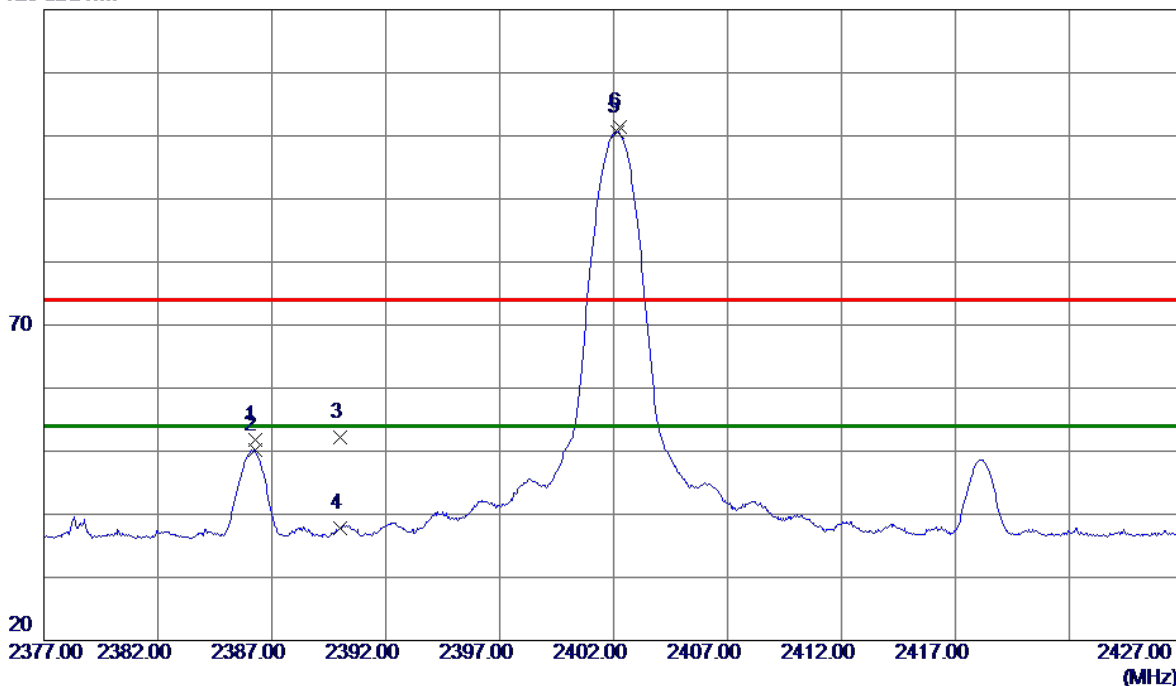
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Module 6

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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120 dBuV/m



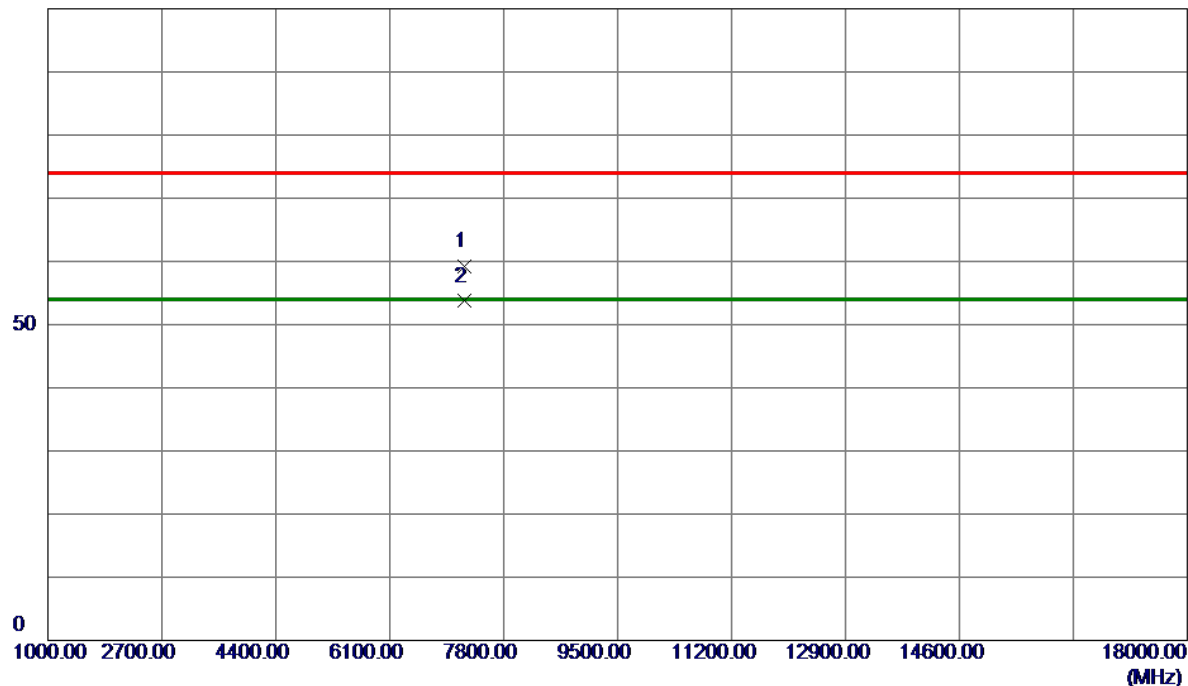
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.2500	44.86	6.92	51.78	74.00	-22.22	Peak	
2	2386.2500	43.24	6.92	50.16	54.00	-3.84	AVG	
3	2390.0000	45.36	6.93	52.29	74.00	-21.71	Peak	
4	2390.0000	30.86	6.93	37.79	54.00	-16.21	AVG	
5 *	2402.1500	93.64	6.97	100.61	54.00	46.61	AVG	No Limit
6	2402.2500	94.49	6.97	101.46	74.00	27.46	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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100 dBuV/m



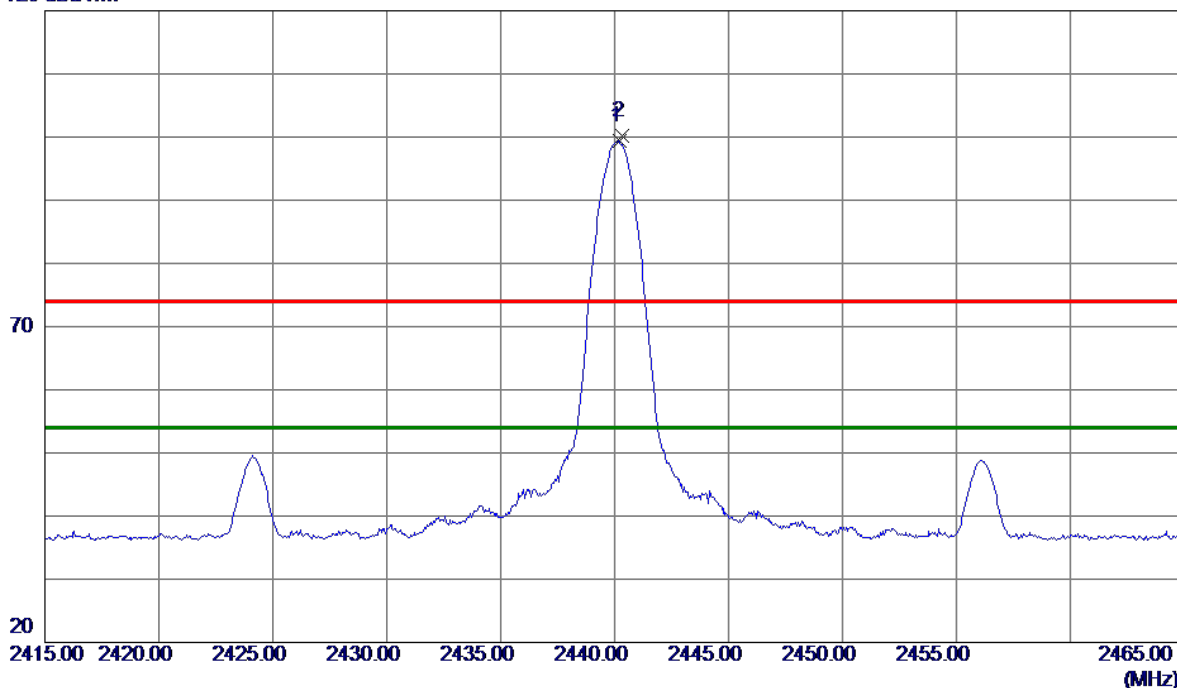
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7206.9200	49.86	9.27	59.13	74.00	-14.87	Peak	
2 *	7206.9600	44.43	9.27	53.70	54.00	-0.30	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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120 dBuV/m



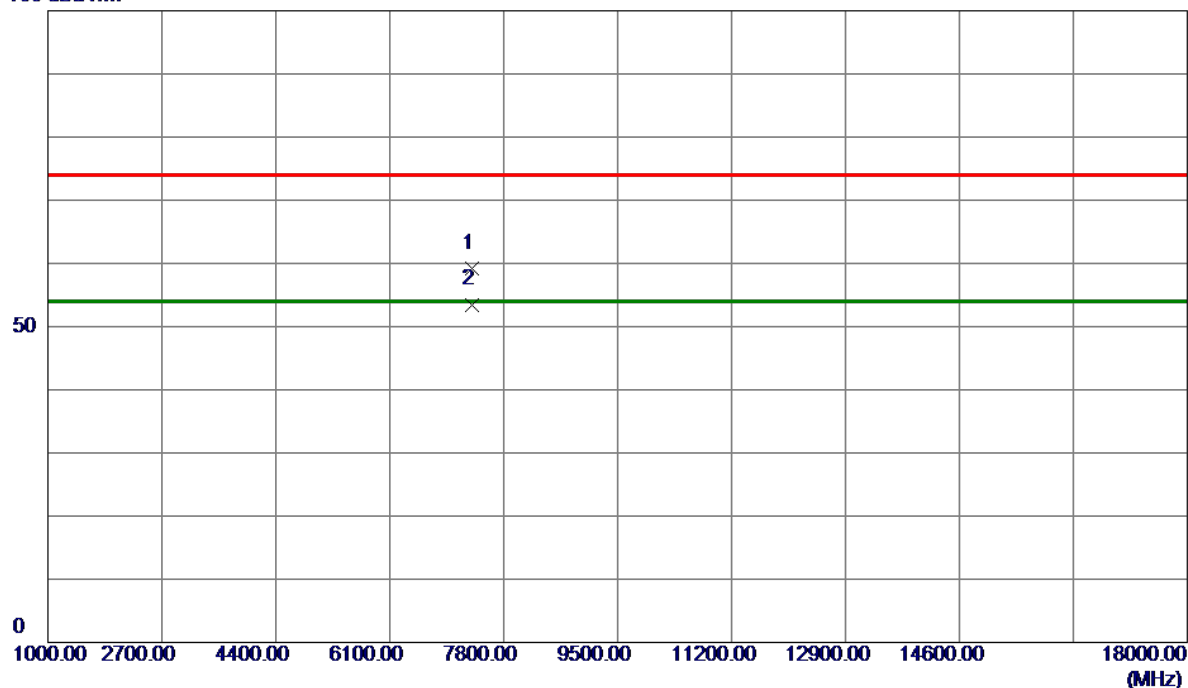
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2440.2000	92.26	7.09	99.35	54.00	45.35	AVG	No Limit
2	2440.3500	93.05	7.09	100.14	74.00	26.14	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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100 dBuV/m



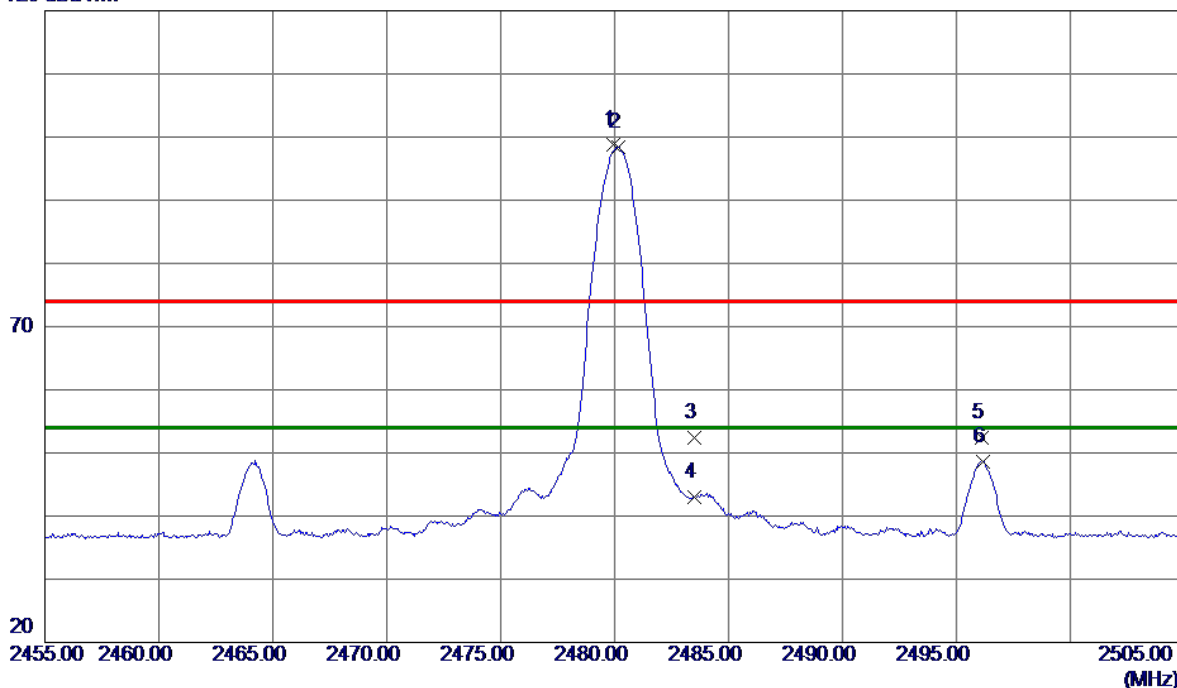
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7319.6000	49.85	9.36	59.21	74.00	-14.79	Peak	
2 *	7321.0000	44.14	9.36	53.50	54.00	-0.50	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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120 dBuV/m



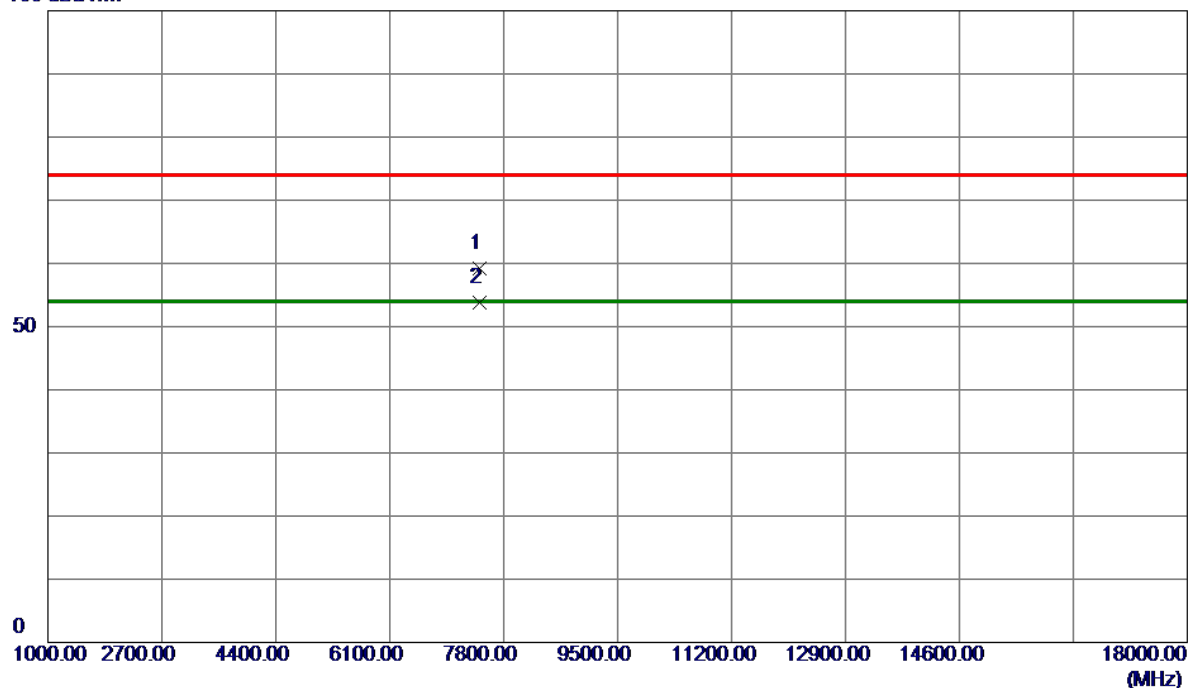
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9500	91.61	7.22	98.83	74.00	24.83	Peak	No Limit
2 *	2480.1500	91.13	7.22	98.35	54.00	44.35	AVG	No Limit
3	2483.5000	45.25	7.23	52.48	74.00	-21.52	Peak	
4	2483.5000	35.73	7.23	42.96	54.00	-11.04	AVG	
5	2496.1000	45.20	7.27	52.47	74.00	-21.53	Peak	
6	2496.1500	41.38	7.27	48.65	54.00	-5.35	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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100 dBuV/m



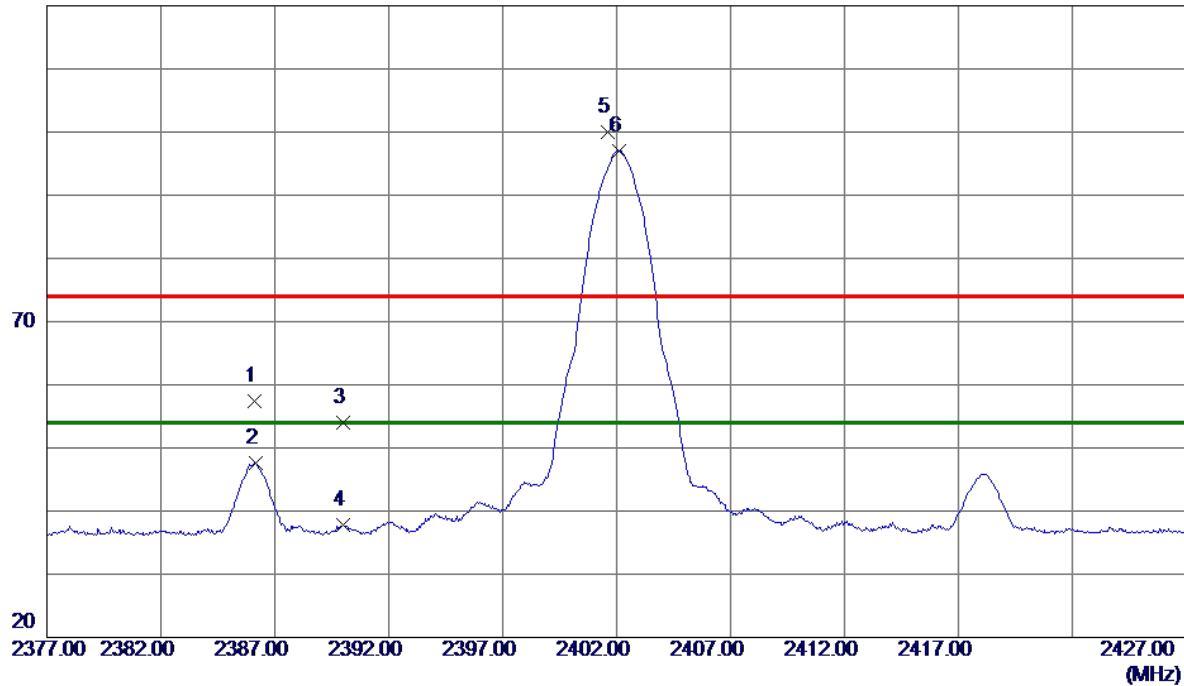
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7439.7000	49.68	9.46	59.14	74.00	-14.86	Peak	
2 *	7440.9800	44.36	9.46	53.82	54.00	-0.18	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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120 dBuV/m



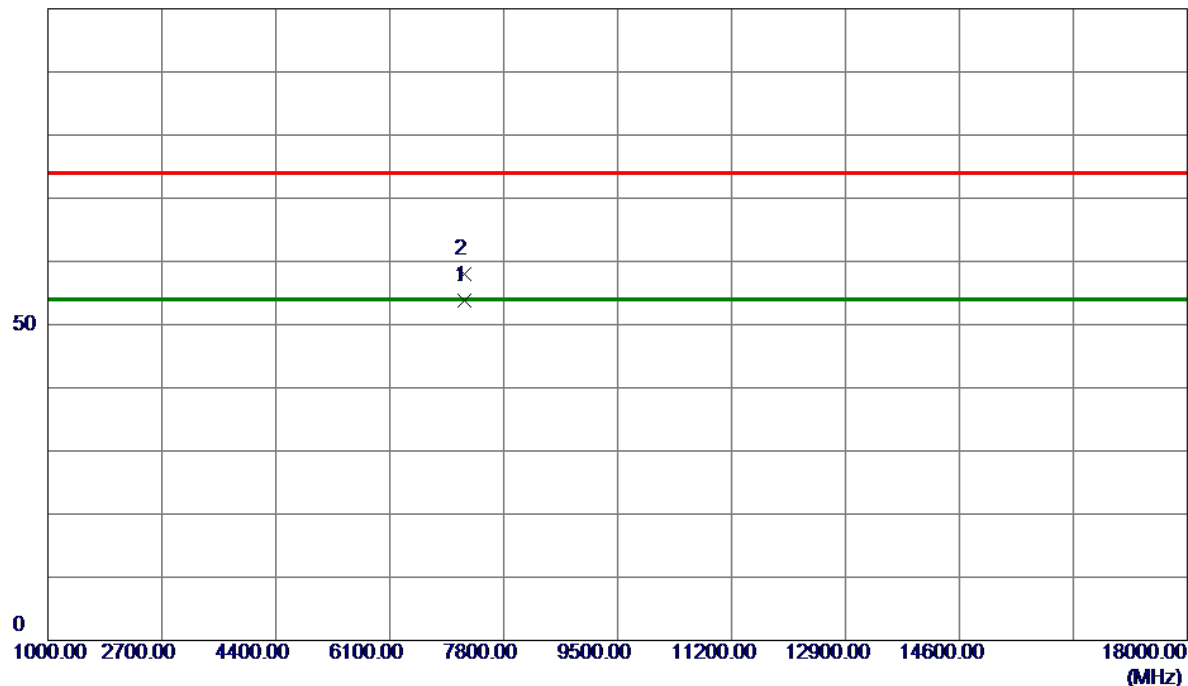
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.1000	50.44	6.92	57.36	74.00	-16.64	Peak	
2	2386.1500	40.67	6.92	47.59	54.00	-6.41	AVG	
3	2390.0000	47.16	6.93	54.09	74.00	-19.91	Peak	
4	2390.0000	30.87	6.93	37.80	54.00	-16.20	AVG	
5	2401.6000	93.08	6.97	100.05	74.00	26.05	Peak	No Limit
6 *	2402.1000	90.09	6.97	97.06	54.00	43.06	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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100 dBuV/m



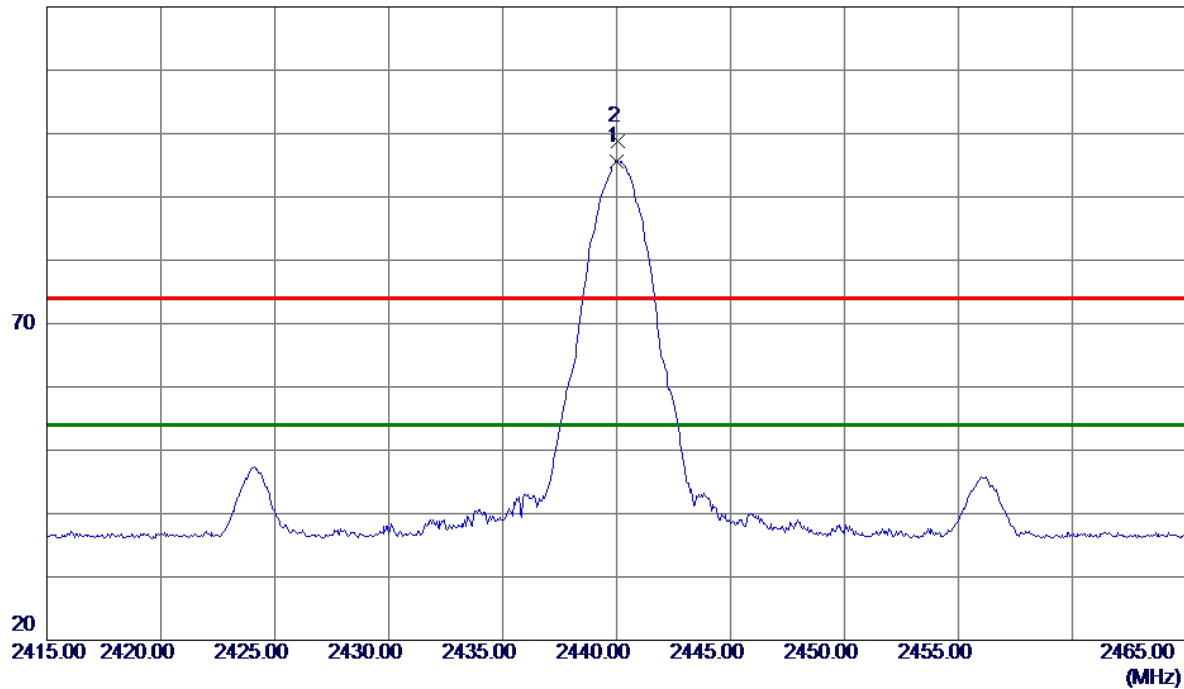
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7207.5400	44.52	9.27	53.79	54.00	-0.21	AVG	
2	7207.7600	48.69	9.27	57.96	74.00	-16.04	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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120 dBuV/m



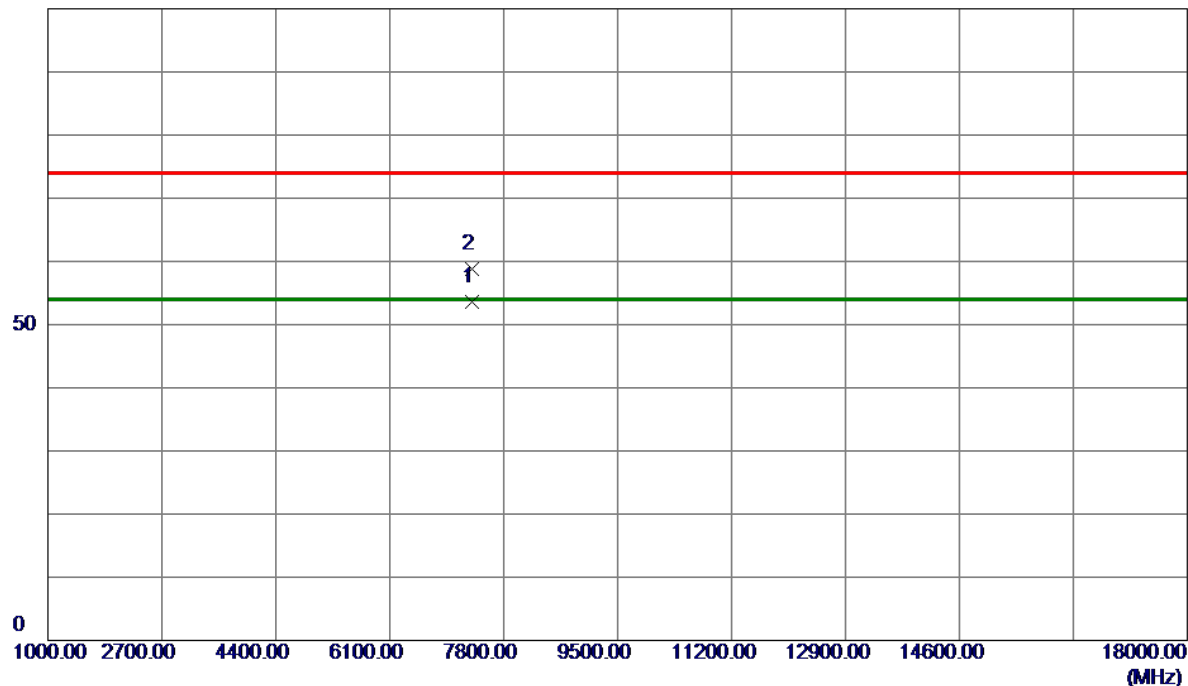
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2440.0000	88.59	7.09	95.68	54.00	41.68	AVG	No Limit
2	2440.0500	91.67	7.09	98.76	74.00	24.76	Peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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100 dBuV/m



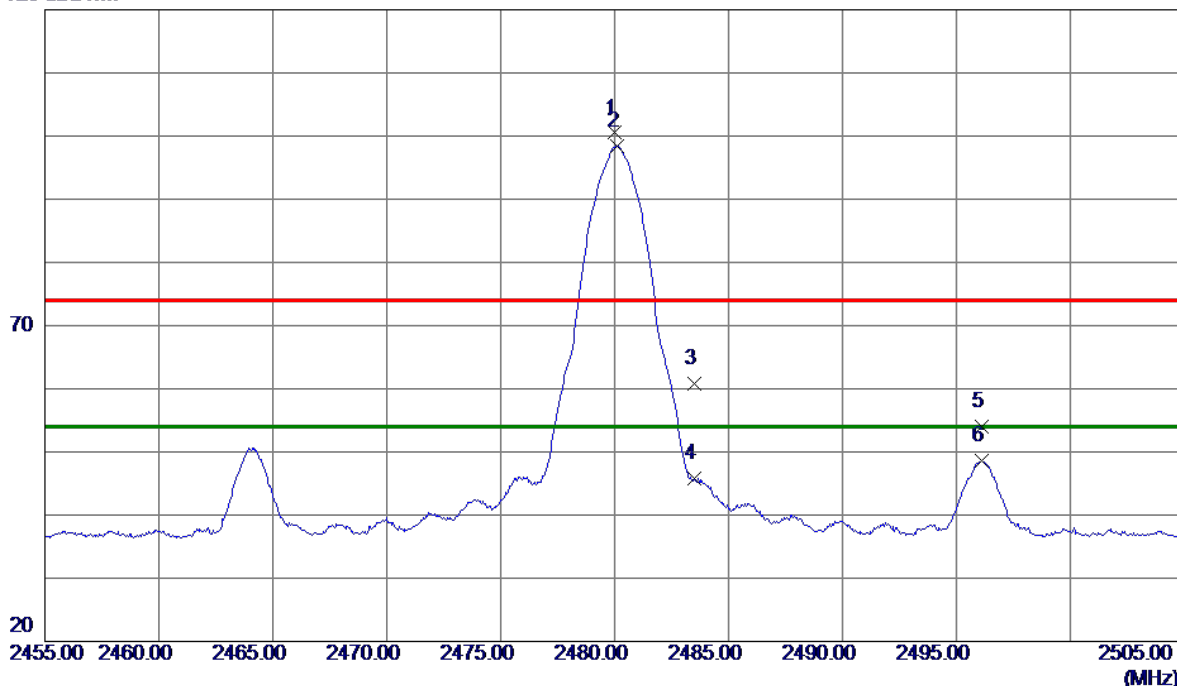
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7319.0000	44.31	9.36	53.67	54.00	-0.33	AVG	
2	7321.7800	49.36	9.36	58.72	74.00	-15.28	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	93.28	7.22	100.50	74.00	26.50	Peak	
2 *	2480.1000	91.11	7.22	98.33	54.00	44.33	AVG	
3	2483.5000	53.65	7.23	60.88	74.00	-13.12	Peak	
4	2483.5000	38.63	7.23	45.86	54.00	-8.14	AVG	
5	2496.1000	46.77	7.27	54.04	74.00	-19.96	Peak	
6	2496.1000	41.25	7.27	48.52	54.00	-5.48	AVG	

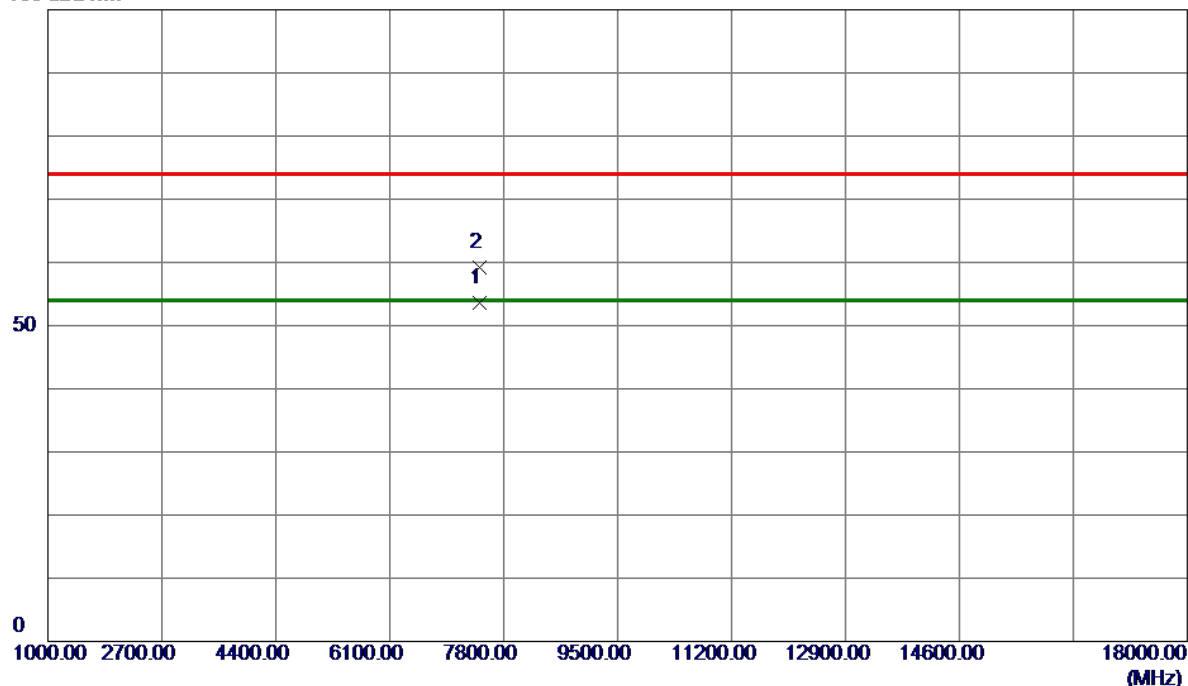
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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100 dBuV/m

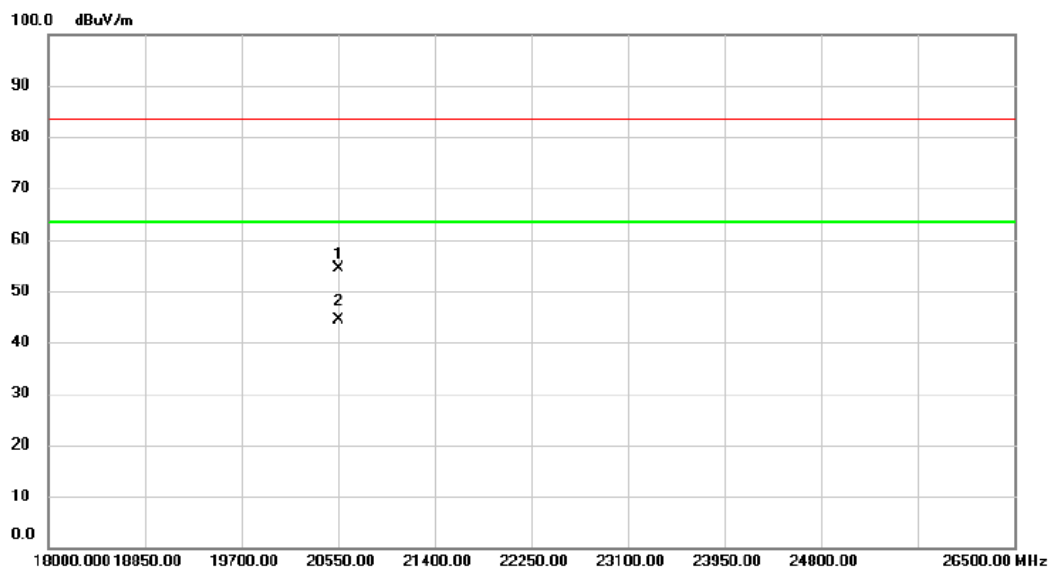


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7439.1000	44.21	9.46	53.67	54.00	-0.33	AVG	
2	7440.3600	49.66	9.46	59.12	74.00	-14.88	Peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Vertical
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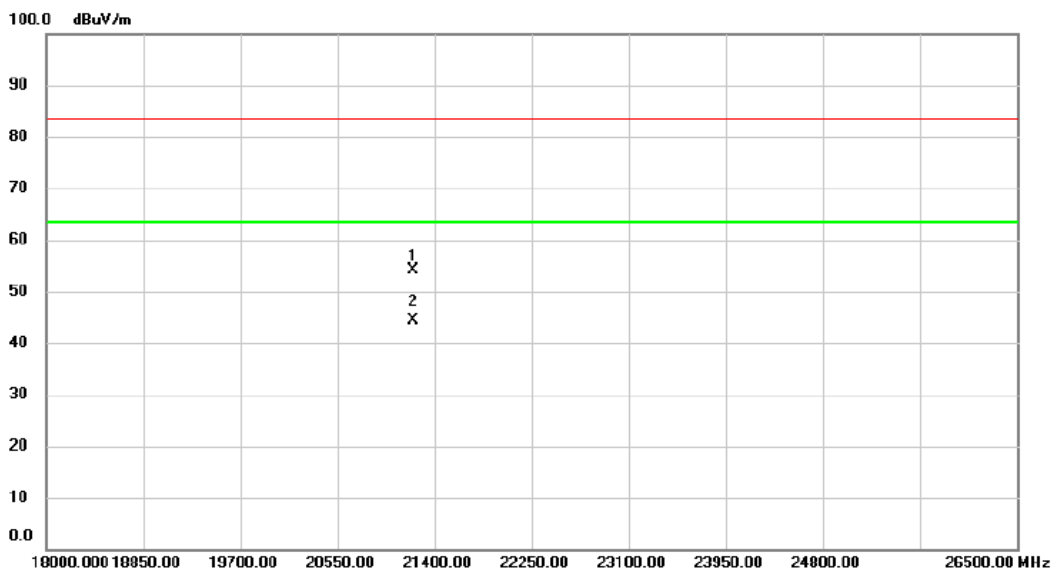
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		20558.500	51.25	3.19	54.44	83.50	-29.06	peak	
2	*	20558.500	41.20	3.19	44.39	63.50	-19.11	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_2Mbps Channel 19	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		21213.000	50.91	3.34	54.25	83.50	-29.25	peak	
2	*	21213.000	41.05	3.34	44.39	63.50	-19.11	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

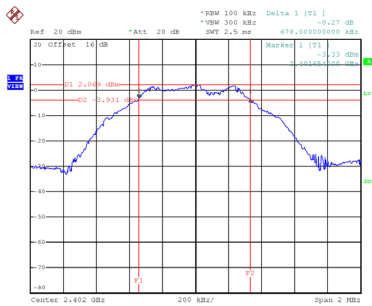
APPENDIX E - BANDWIDTH

Module 5

Test Mode	TX Mode _1Mbps
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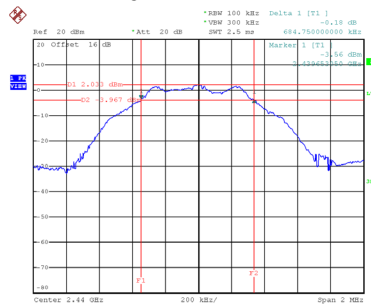
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.678	1.044	0.5	Pass
19	2440	0.685	1.036	0.5	Pass
39	2480	0.678	1.036	0.5	Pass

CH00



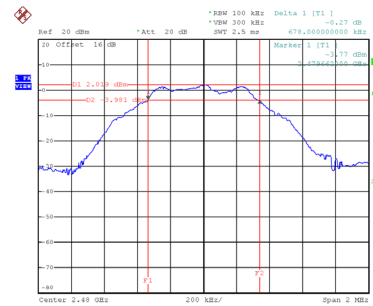
Date: 15.MAR.2025 14:39:04

CH19
6 dB Bandwidth



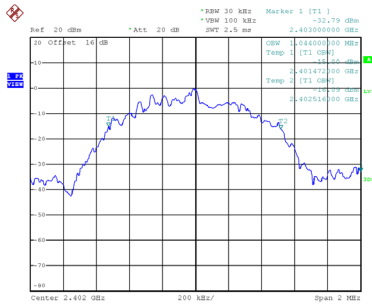
Date: 15.MAR.2025 14:40:47

CH39

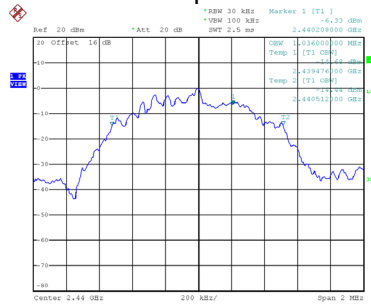


Date: 15.MAR.2025 14:44:14

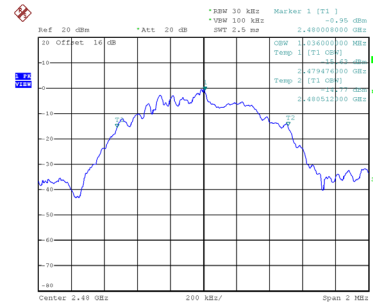
99 % Occupied Bandwidth



Date: 15.MAR.2025 14:38:26



Date: 15.MAR.2025 14:40:52

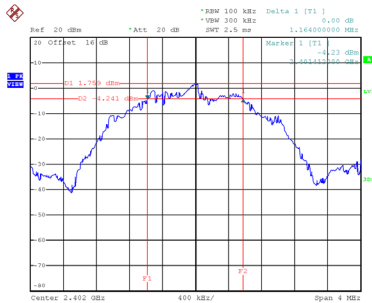


Date: 15.MAR.2025 14:44:19

Test Mode	TX Mode _2Mbps
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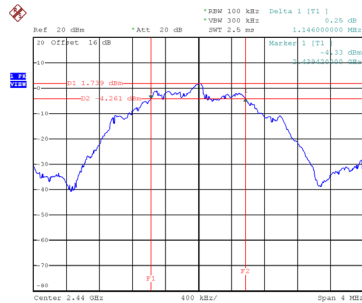
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	1.164	2.064	0.5	Pass
19	2440	1.146	2.064	0.5	Pass
39	2480	1.150	2.056	0.5	Pass

CH00



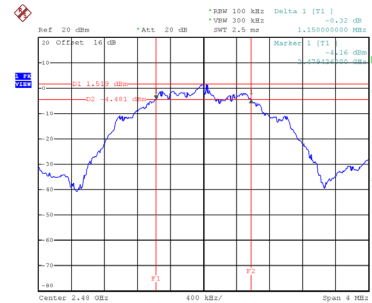
Date: 15.MAR.2025 14:46:16

CH19
6 dB Bandwidth



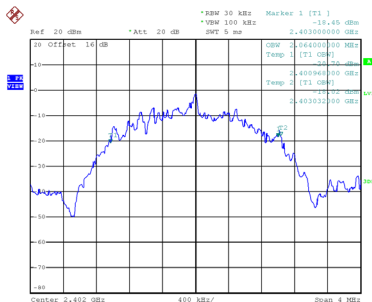
Date: 15.MAR.2025 14:48:17

CH39

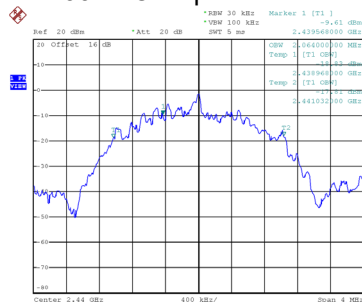


Date: 15.MAR.2025 14:50:09

99 % Occupied Bandwidth



Date: 15.MAR.2025 14:45:36



Date: 15.MAR.2025 14:48:22

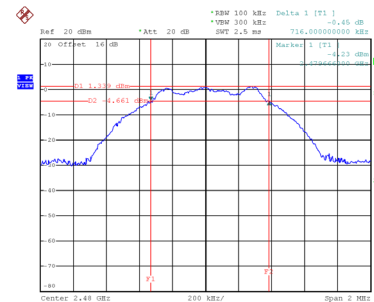


Date: 15.MAR.2025 14:50:15

Test Mode	TX Mode _1Mbps
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.708	1.068	0.5	Pass
19	2440	0.714	1.048	0.5	Pass
39	2480	0.716	1.044	0.5	Pass

CH19
6 dB Bandwidth



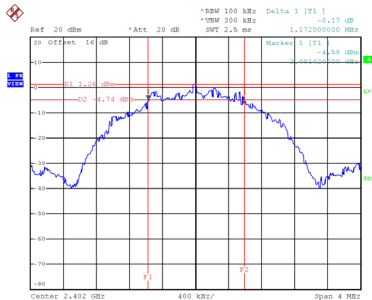
Date: 15.MAR.2025 14:12:07

Date: 15.MAR.2025 14:12:13

Test Mode	TX Mode _2Mbps
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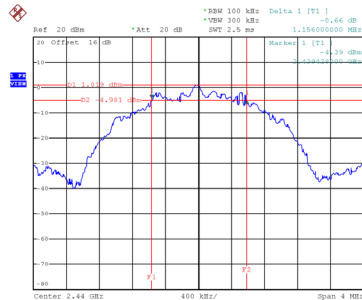
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	1.172	2.064	0.5	Pass
19	2440	1.156	2.064	0.5	Pass
39	2480	1.176	2.056	0.5	Pass

CH00



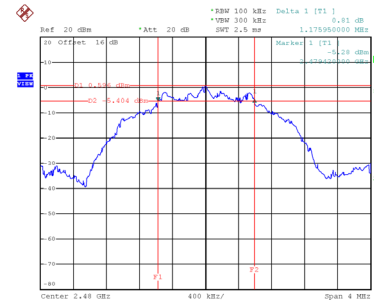
Date: 15.MAR.2025 14:16:27

CH19
6 dB Bandwidth



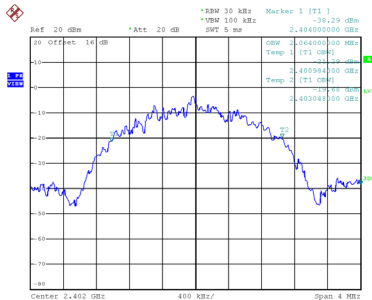
Date: 15.MAR.2025 14:18:40

CH39

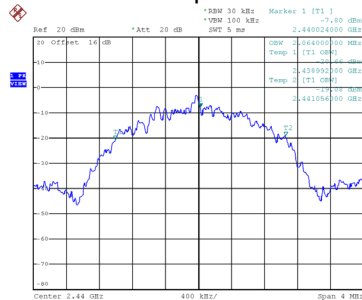


Date: 15.MAR.2025 14:20:46

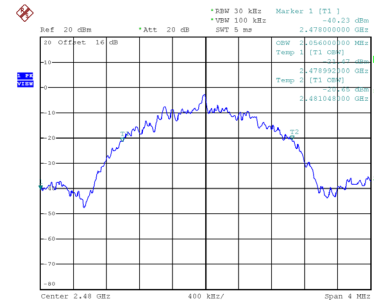
99 % Occupied Bandwidth



Date: 15.MAR.2025 14:15:46



Date: 15.MAR.2025 14:18:46



Date: 15.MAR.2025 14:21:48

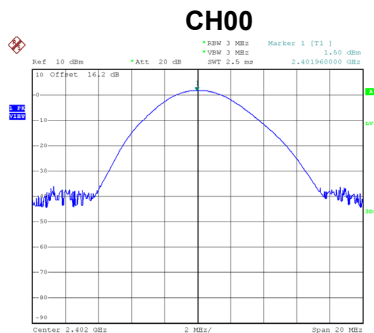
APPENDIX F - MAXIMUM OUTPUT POWER

Module 5

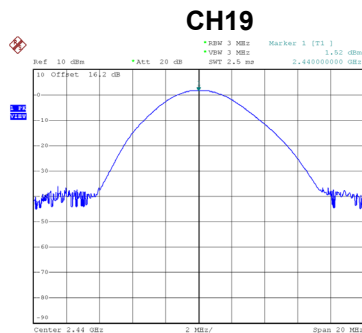
Test Mode	TX Mode _1Mbps
-----------	----------------

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	1.50	0.0014	30.00	1.0000	Pass
2440	1.52	0.0014	30.00	1.0000	Pass
2480	1.43	0.0014	30.00	1.0000	Pass

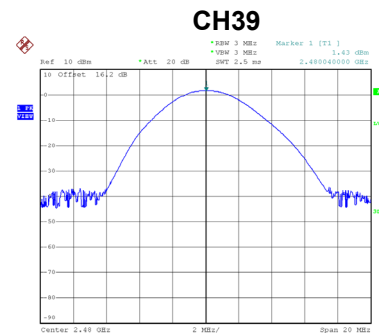
Note: Output power = Measure result + Cable loss



Date: 20.MAR.2025 15:21:46



Date: 20.MAR.2025 15:23:14

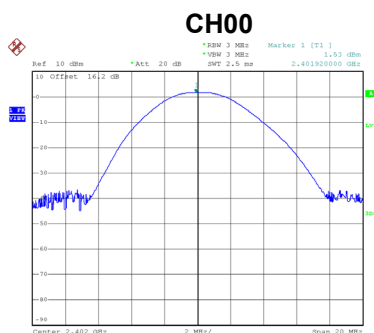


Date: 20.MAR.2025 15:23:37

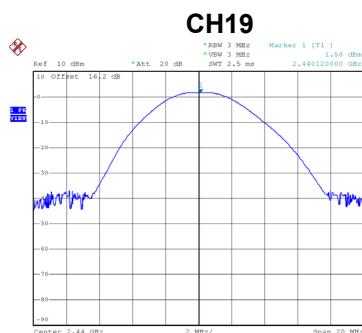
Test Mode	TX Mode _2Mbps
-----------	----------------

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	1.53	0.0014	30.00	1.0000	Pass
2440	1.58	0.0014	30.00	1.0000	Pass
2480	1.46	0.0014	30.00	1.0000	Pass

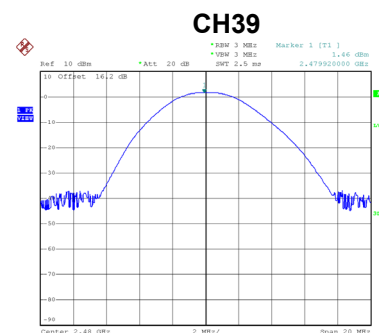
Note: Output power = Measure result + Cable loss



Date: 20.MAR.2025 15:24:05



Date: 20.MAR.2025 15:24:49



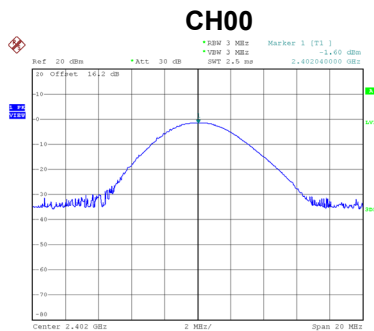
Date: 20.MAR.2025 15:25:07

Module 6

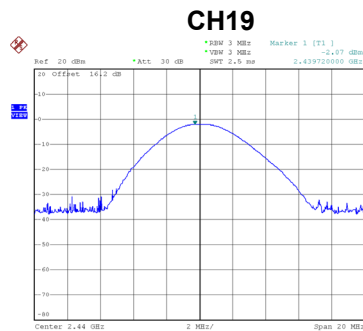
Test Mode	TX Mode _1Mbps
-----------	----------------

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-1.60	0.0007	30.00	1.0000	Pass
2440	-2.07	0.0006	30.00	1.0000	Pass
2480	-2.40	0.0006	30.00	1.0000	Pass

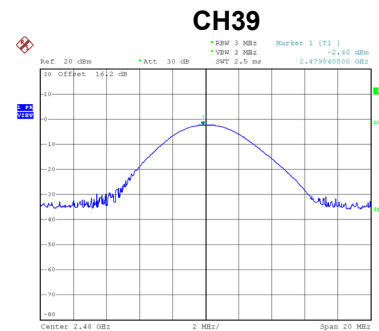
Note: Output power = Measure result + Cable loss



Date: 21.MAR.2025 09:58:52



Date: 21.MAR.2025 10:00:15

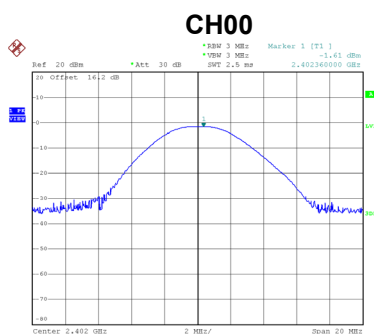


Date: 21.MAR.2025 10:00:37

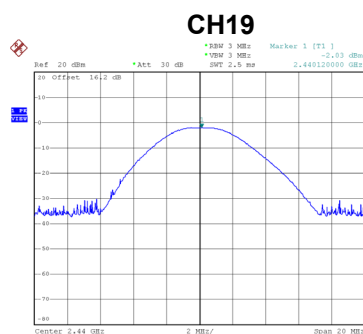
Test Mode	TX Mode _2Mbps
-----------	----------------

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-1.61	0.0007	30.00	1.0000	Pass
2440	-2.03	0.0006	30.00	1.0000	Pass
2480	-2.38	0.0006	30.00	1.0000	Pass

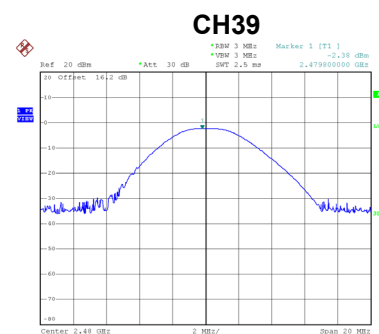
Note: Output power = Measure result + Cable loss



Date: 21.MAR.2025 10:01:18



Date: 21.MAR.2025 10:02:59



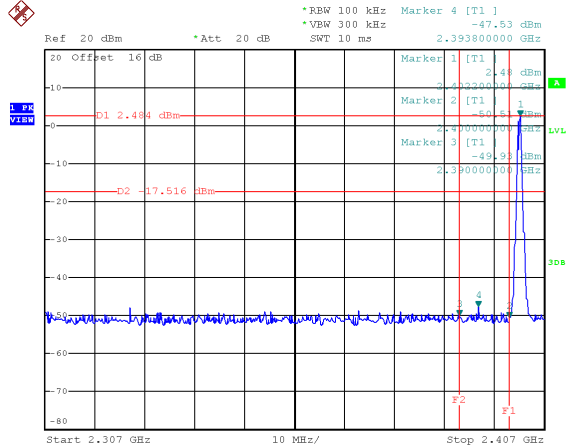
Date: 21.MAR.2025 10:01:56

APPENDIX G - CONDUCTED SPURIOUS EMISSION

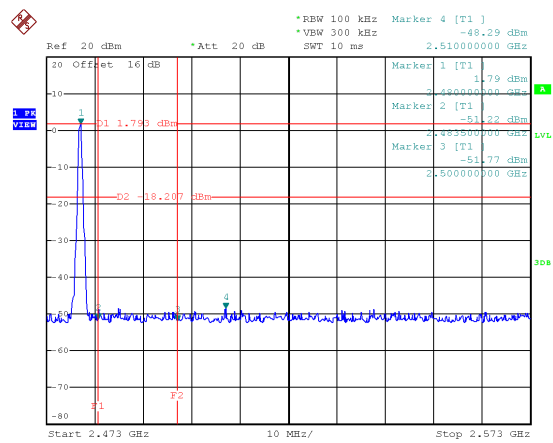
Module 5

Test Mode	TX Mode_1Mbps
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Bandedge CH00 (Lower)



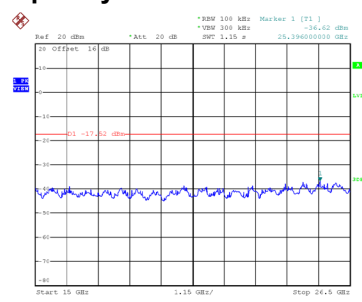
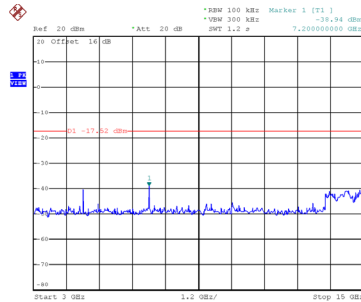
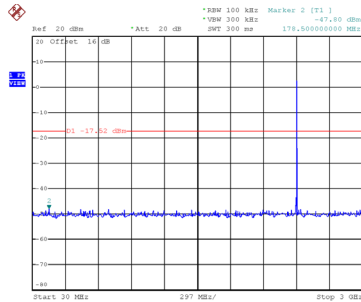
Bandedge CH39 (Upper)



Date: 15.MAR.2025 14:39:11

Date: 15.MAR.2025 14:44:27

CH00 – 10th Harmonic of the fundamental frequency

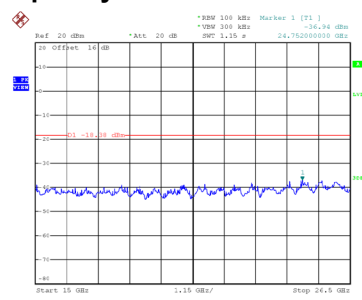
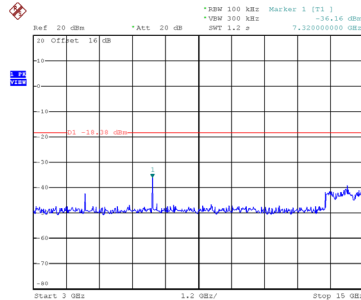
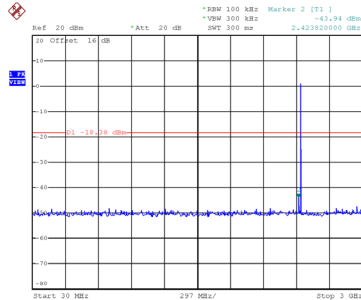


Date: 15.MAR.2025 14:39:24

Date: 15.MAR.2025 14:39:32

Date: 15.MAR.2025 14:39:39

CH19 – 10th Harmonic of the fundamental frequency

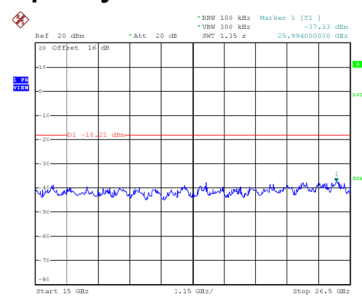
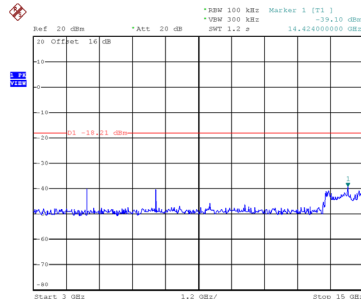
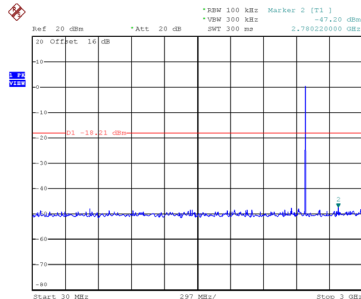


Date: 15.MAR.2025 14:42:58

Date: 15.MAR.2025 14:43:05

Date: 15.MAR.2025 14:43:13

CH39 – 10th Harmonic of the fundamental frequency



Date: 15.MAR.2025 14:44:40

Date: 15.MAR.2025 14:44:47

Date: 15.MAR.2025 14:44:54