



# FCC Radio Test Report

## FCC ID: 2ABVH-OONA222W

This report concerns: Original Grant

**Project No.** : 2504G031  
**Equipment** : Kiosk  
**Brand Name** : AAVA  
**Test Model** : OONA22-2W  
**Series Model** : N/A  
**Applicant** : Aava Mobile Oy  
**Address** : Nahkatehtaankatu 2, FI-90130 Oulu, Finland  
**Manufacturer** : Aava Mobile Oy  
**Address** : Nahkatehtaankatu 2, FI-90130 Oulu, Finland  
**Factory** : Ennoconn (Suzhou) Technology Co.,Ltd  
**Address** : BUILDING 1, 299 NANSONG RD, YU SHAN TOWN KUNSHAN 215300 JIANGSU CHINA  
**Date of Receipt** : Apr. 29, 2025  
**Date of Test** : Apr. 29, 2025 ~ Jun. 10, 2025  
**Issued Date** : Jun. 18, 2025  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2025042934 for conducted, DG2025042935 for others.  
**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. (Dongguan)

**Prepared by** : Sheldon Ou

Sheldon Ou

**Approved by** : Chay . Cai

Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000 Web: [www.newbtl.com](http://www.newbtl.com) Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

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**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacturer'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**. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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**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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**REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2504G031	R00	Original Report.	Jun. 18, 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 is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, 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 test:

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB03	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U_{\text{(dB)}}$
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

**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	May 16, 2025
Radiated Emissions -9 kHz to 30 MHz	23°C	52%	AC 120V/60Hz	Hayden Chen	May 15, 2025
Radiated Emissions -30 MHz to 1000 MHz	23°C	52%	AC 120V/60Hz	Calvin Wen	May 16, 2025
Radiated Emissions -Above 1000 MHz	23°C	52%	AC 120V/60Hz	Drew Tan	May 18, 2025- May 22, 2025
	23°C	52%	AC 120V/60Hz	Calvin Wen	May 21, 2025
Bandwidth	23°C	54%	AC 120V/60Hz	Parker Yang	May 19, 2025
Maximum Output Power	24-25°C	56-60%	AC 120V/60Hz	Alex Yin	May 13, 2025- May 30, 2025
Conducted Spurious Emission	23°C	54%	AC 120V/60Hz	Parker Yang	May 19, 2025
Power Spectral Density	23°C	54%	AC 120V/60Hz	Parker Yang	May 19, 2025

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Kiosk
Brand Name	AAVA
Test Model	OONA22-2W
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	PV
Software Version	Android
Power Source	DC voltage supplied from AC adapter. Model: J652-2403000DI
Power Rating	I/P: 100-240V~ 50/60Hz 1.7A O/P: 24.0V <del>====</del> 3.0A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps, 500kbps(S=2), 125kbps(S=8)
Max. Output Power	500kbps(S=2): 7.87 dBm (0.0061 W)

Note:

1. 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.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	 www.avantenna.com	W3006	Chip	N/A	1.2

### 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_500kbps(S=2) Channel 00/19/39
Mode 4	TX Mode_125kbps(S=8) Channel 00/19/39
Mode 5	TX Mode_500kbps(S=2) Channel 00

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

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 5	TX Mode_500kbps(S=2) Channel 00

<b>Radiated emissions test - Below 1GHz &amp; Above 18 GHz</b>	
Final Test Mode	Description
Mode 5	TX Mode_500kbps(S=2) Channel 00

<b>Radiated emissions test - 1 GHz - 18 GHz</b>	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_500kbps(S=2) Channel 00/19/39
Mode 4	TX Mode_125kbps(S=8) Channel 00/19/39

<b>Conducted test</b>	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_500kbps(S=2) Channel 00/19/39
Mode 4	TX Mode_125kbps(S=8) Channel 00/19/39

**Note:**

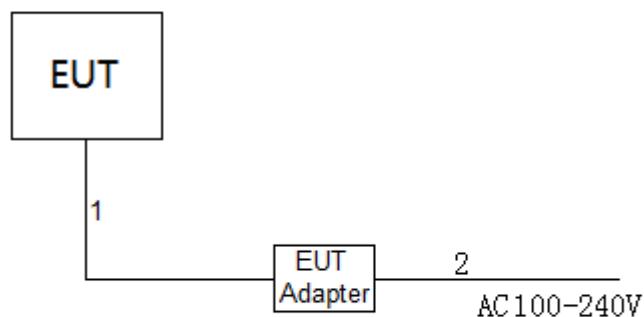
- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 500kbps(S=2) Channel 00 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, only the worst case (Vertical) is recorded.
- (5) For radiated emission test, every axis (X, Y, Z) was also verified. The Z axis is found to be the worst case and recorded.

### 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.

Test Software Version	qdart_conn.win.1.0_installer_00097.1		
Frequency (MHz)	2402	2440	2480
1Mbps	default	default	default
2Mbps	default	default	default
500kbps(S=2)	default	default	default
125kbps(S=8)	default	default	default

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	AC Cable	NO	NO	1.5m

### 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. Part of the cable losses (0.5dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.

## 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	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.

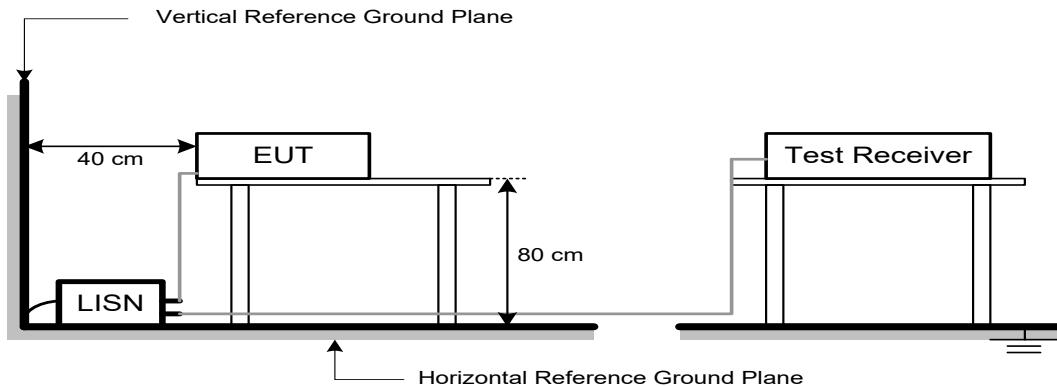
The following table is the setting of the receiver:

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 (dB $\mu$ V/m)		Harmonic at 1m (dB $\mu$ V/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 (dB $\mu$ V/m)=20log Emission level (uV/m).
- (4)

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

20log (d<sub>limit</sub>/d<sub>measure</sub>)=20log (3/1)=9.5 dB.

FS<sub>limit</sub>: Harmonic at 3m Peak and Average limit.

FS<sub>max</sub>: Harmonic at 1m Peak and Average Maximum value.

d<sub>limit</sub>: Harmonic at 3m test distance.

d<sub>measure</sub>: 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	1 MHz / 3 MHz for PK value
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value

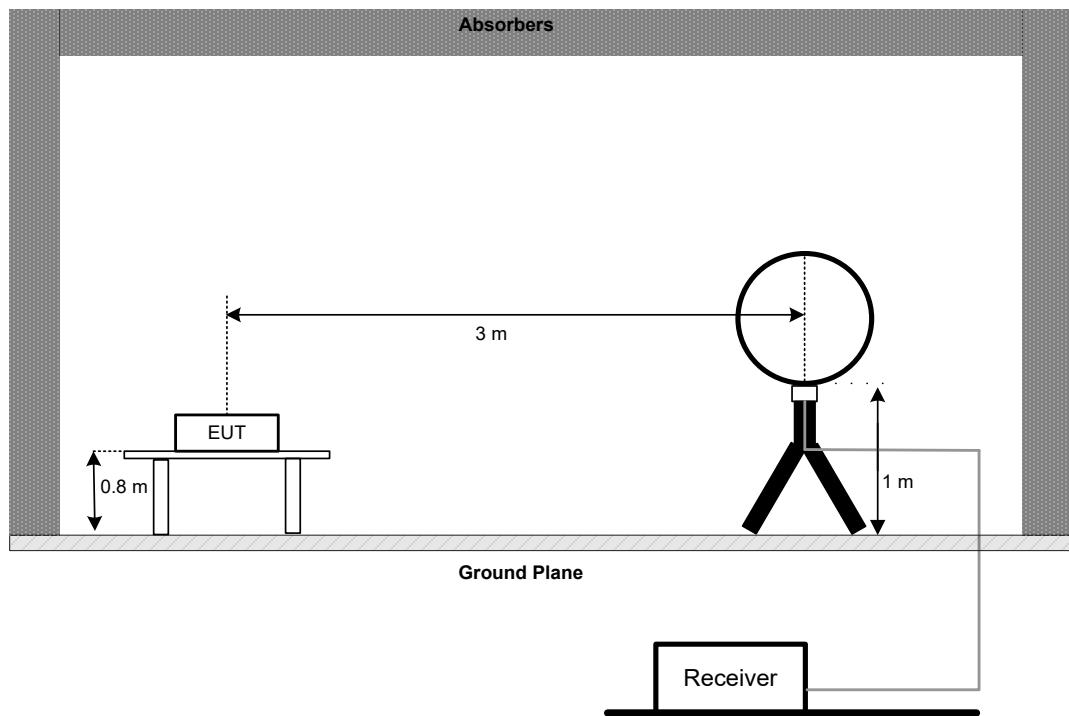
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 5.3 DEVIATION FROM TEST STANDARD

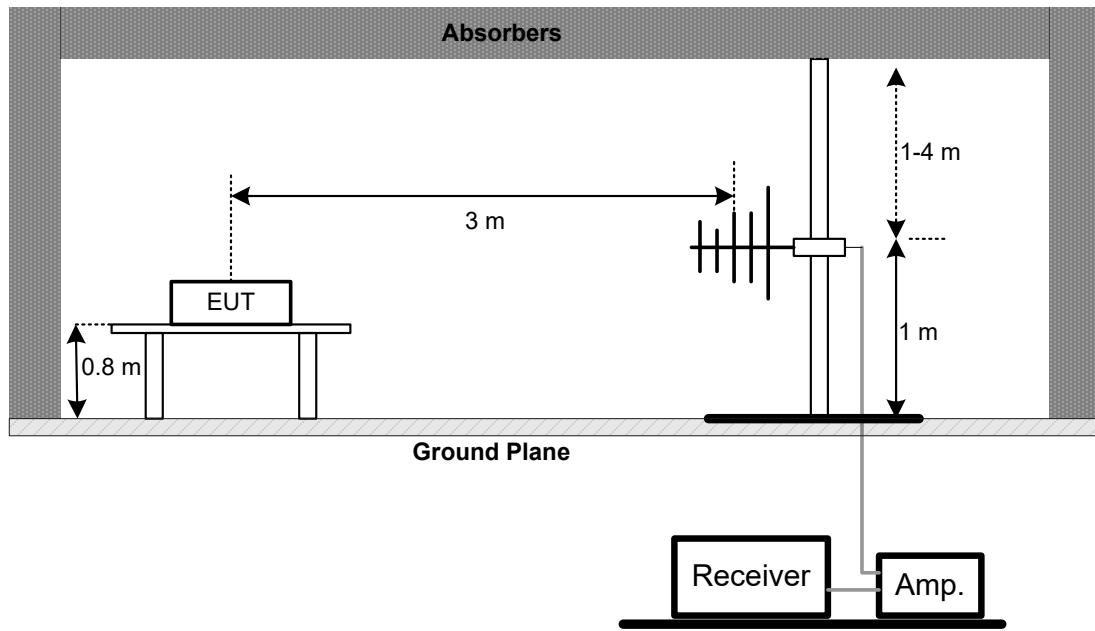
No deviation.

### 5.4 TEST SETUP

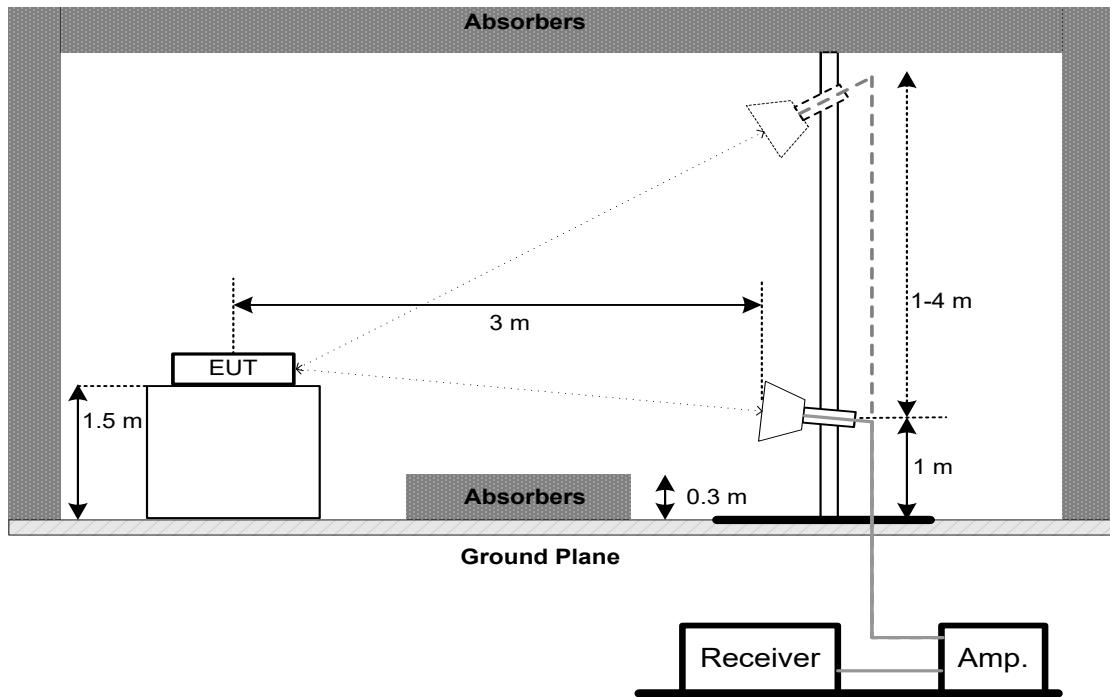
**9 kHz to 30 MHz**



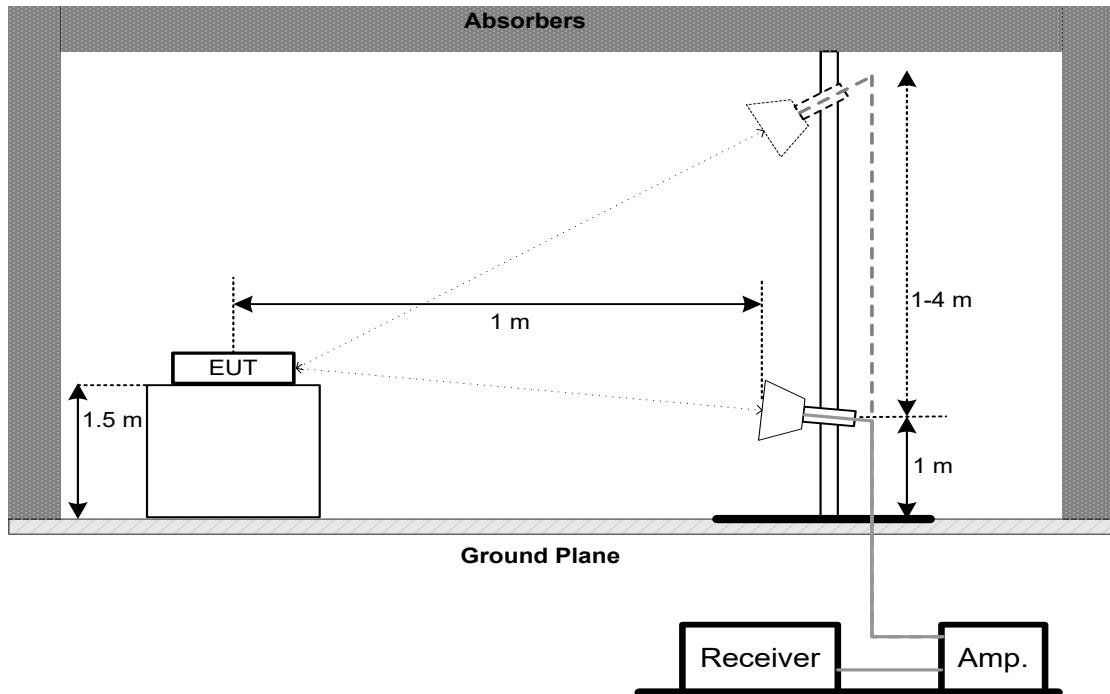
**30 MHz to 1 GHz**



**Above 1 GHz**  
**Band edge & Harmonic(1 GHz to 18 GHz)**



**Harmonic(18 GHz to 26.5 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	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	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

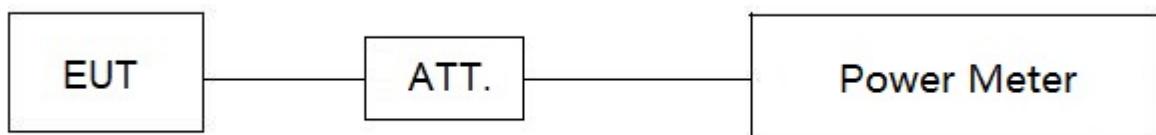
### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 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:

For Reference Level:

Spectrum Parameters	Setting
Span	$\geq 1.5$ times the bandwidth.
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Band edge:

Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

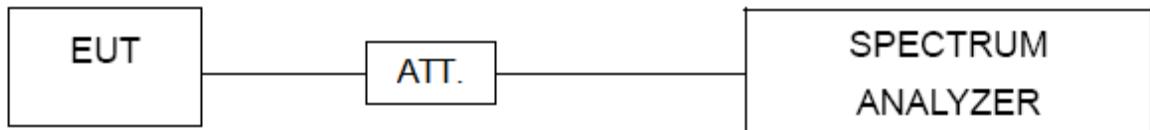
For Emission Level - Harmonic:

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

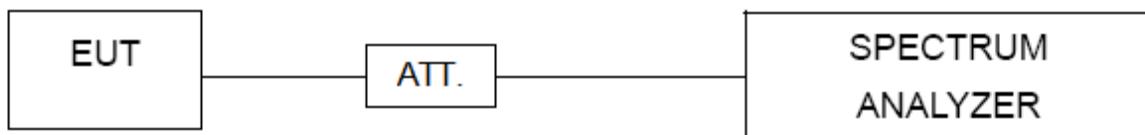
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	1.5 times the DTS bandwidth
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 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM-3.5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

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	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

Radiated Emissions - 1 GHz to 18GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
3	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 02, 2026
4	Cable	RegalWay	RWLP50-4.0A-SMSM-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NMRASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NMRASM-RA-0.8M	N/A	Jul. 03, 2025
7	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
8	Filter	STI	STI15-9912	N/A	May 31, 2025
9	Positioning Controller	MF	MF-7802	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 16, 2026

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92M2.9 2M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 09, 2026
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

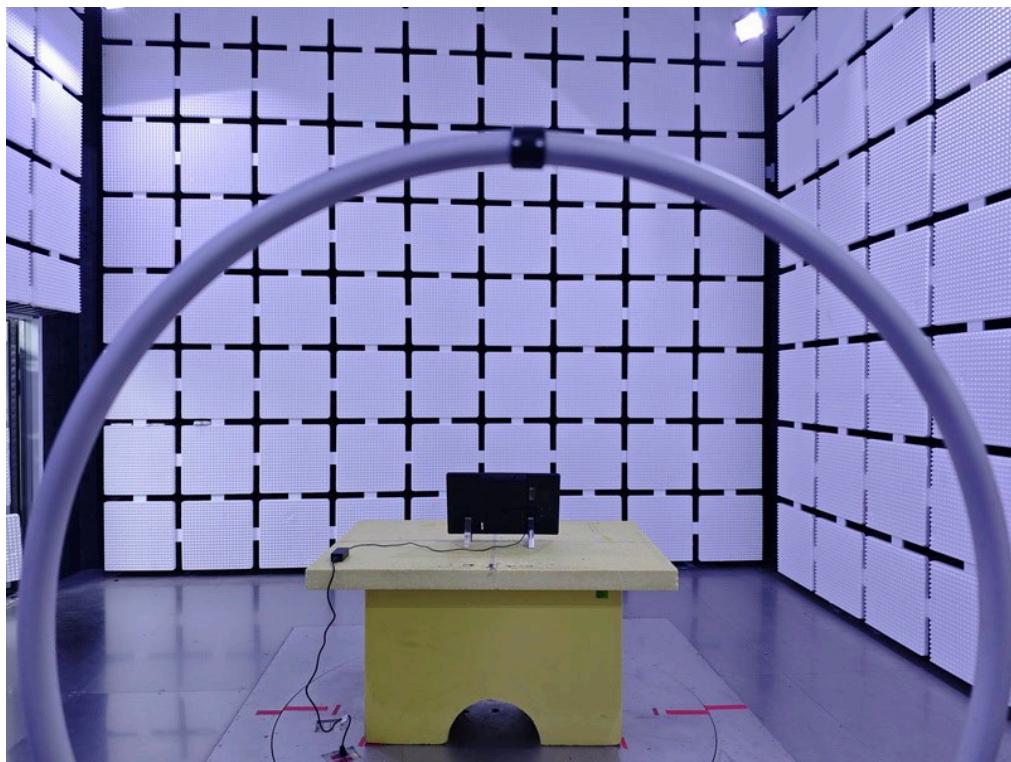
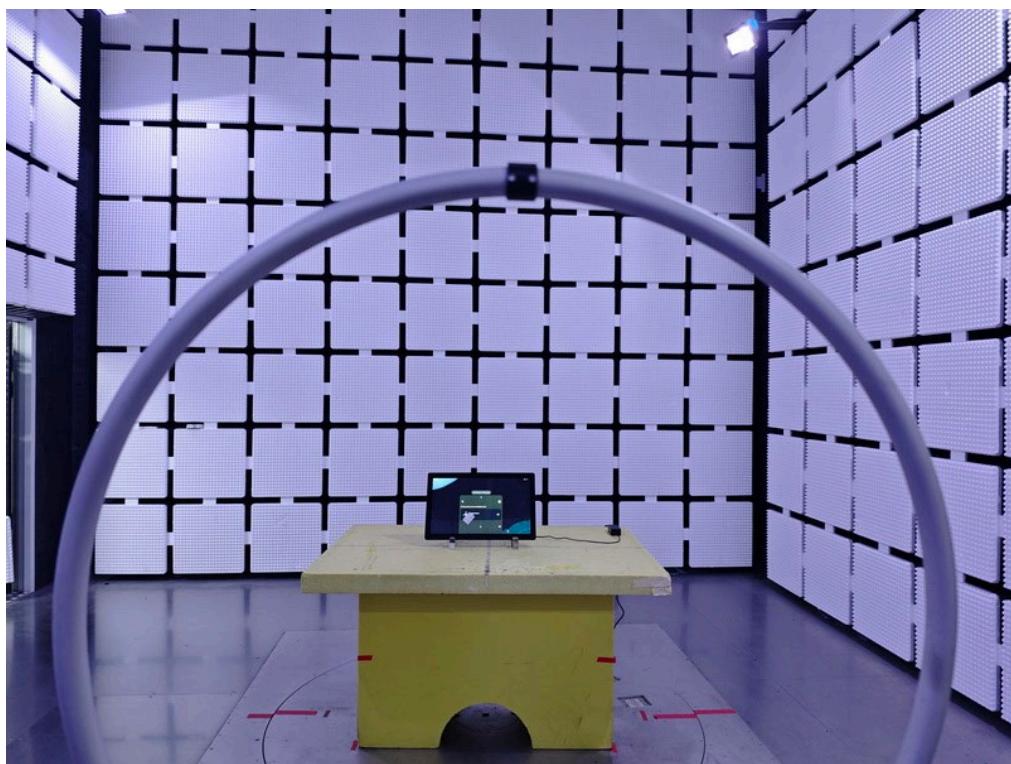
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Sensor	Agilent	U2021XA	MY53320006	May 17, 2026
2	BTL TestSystem	BTL	TestSoftware	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A
4	Cable	Woke	20210802 001	RWP50-402-SMSM-1M	N/A

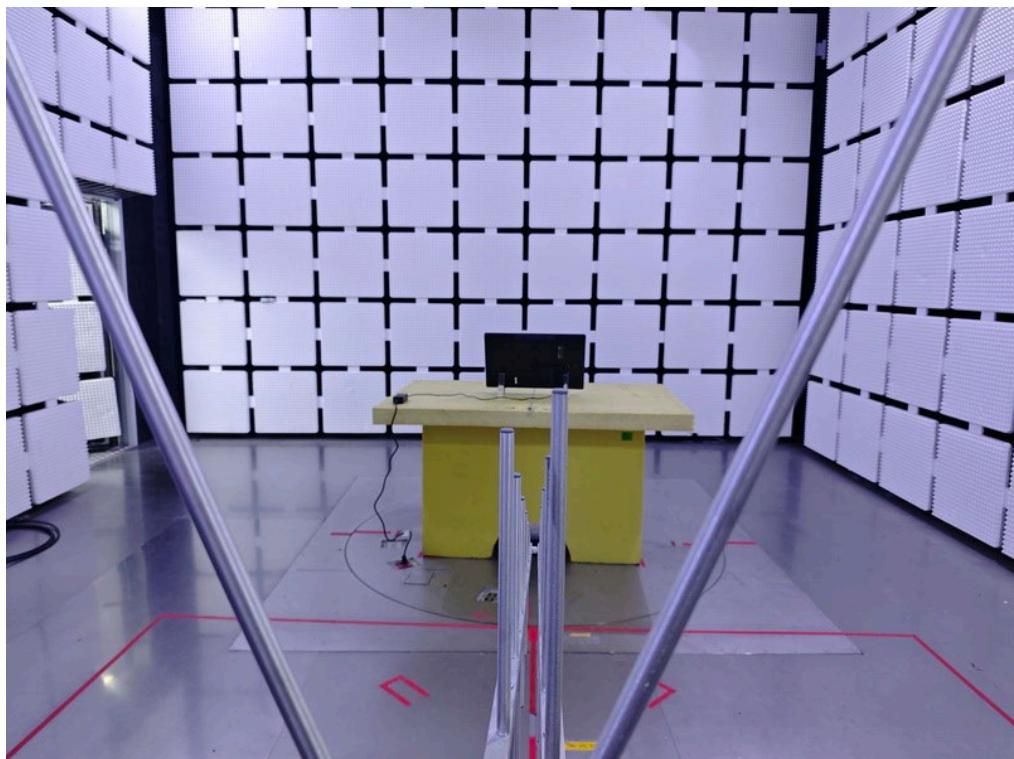
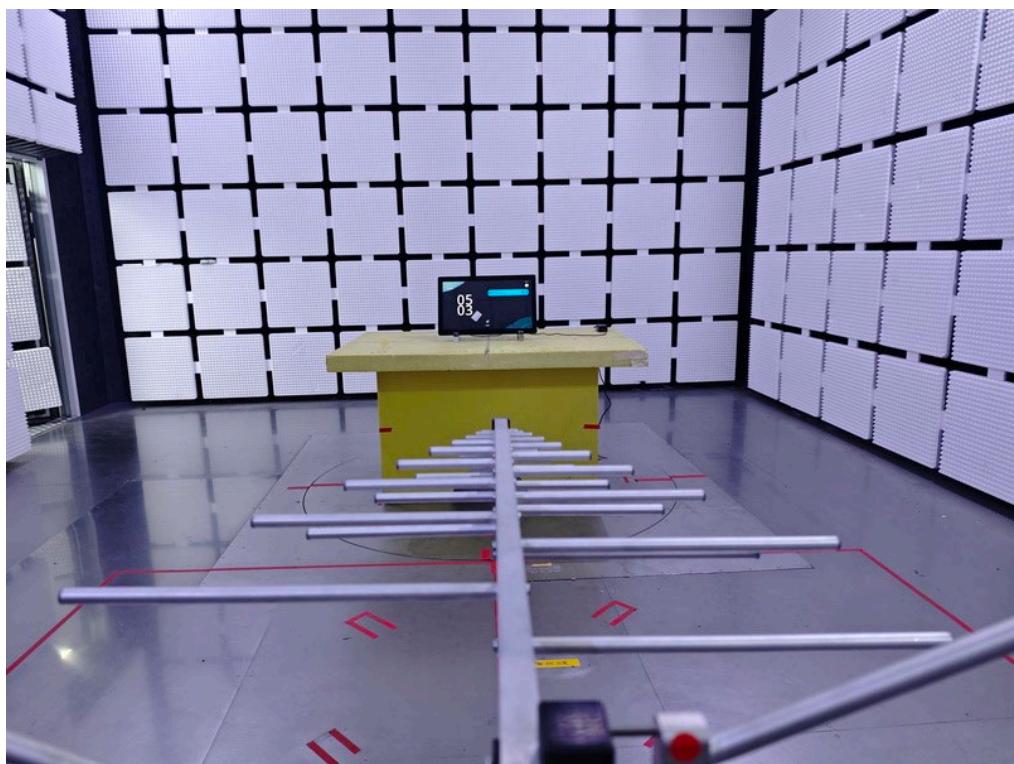
Bandwidth & Power Spectral Density & Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	FSV Signal & Spectrum Analyzer	R&S	FSV3044	101682	Oct. 17, 2025
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

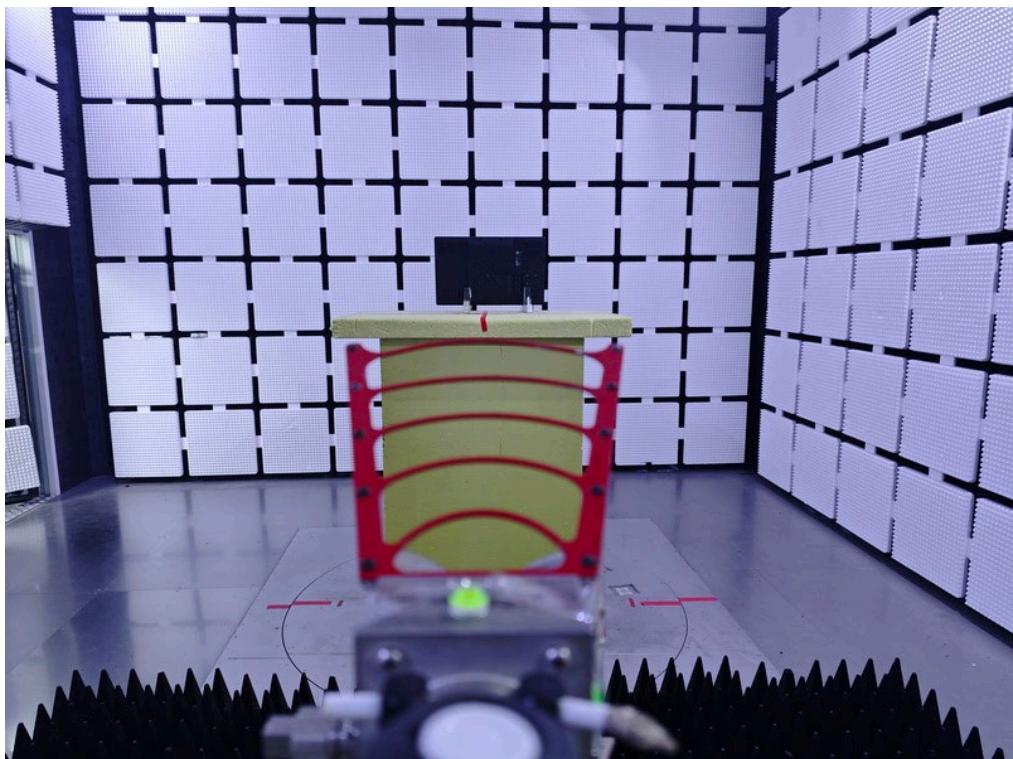
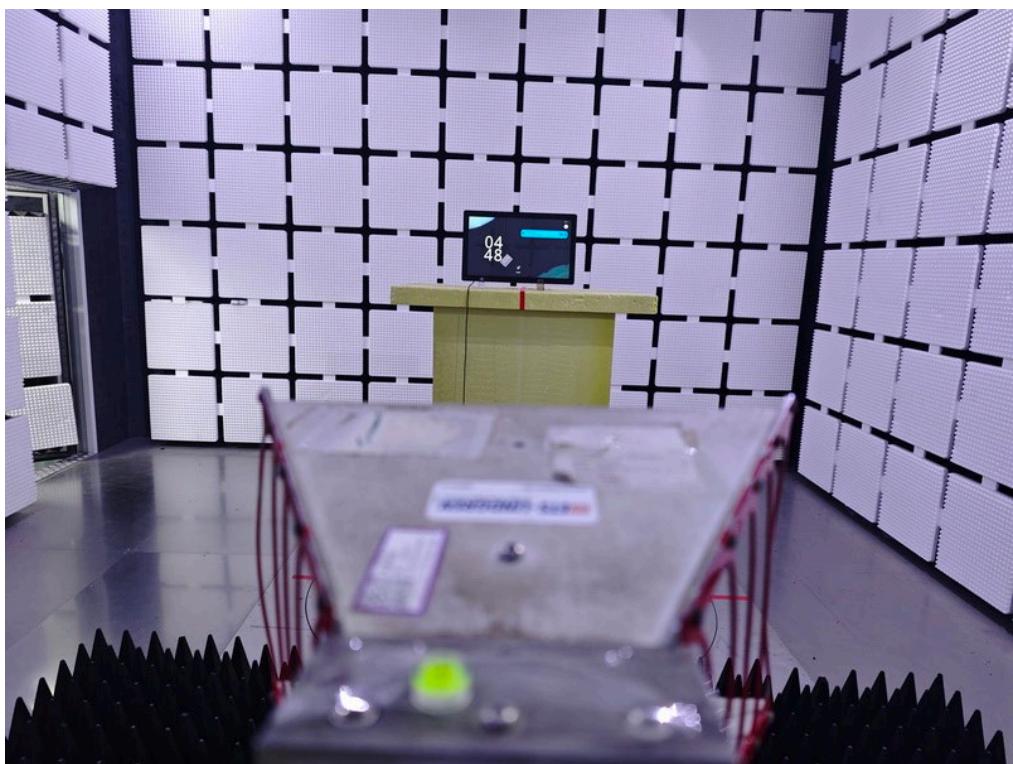
Remark: "N/A" denotes no model name, serial no. or calibration specified.

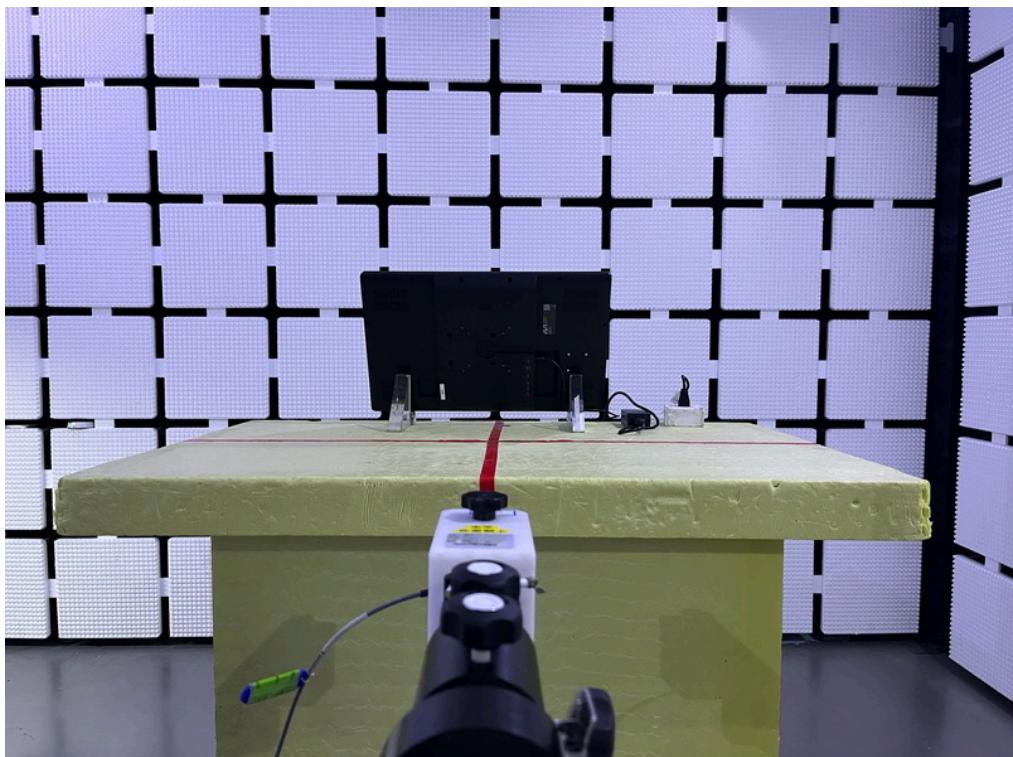
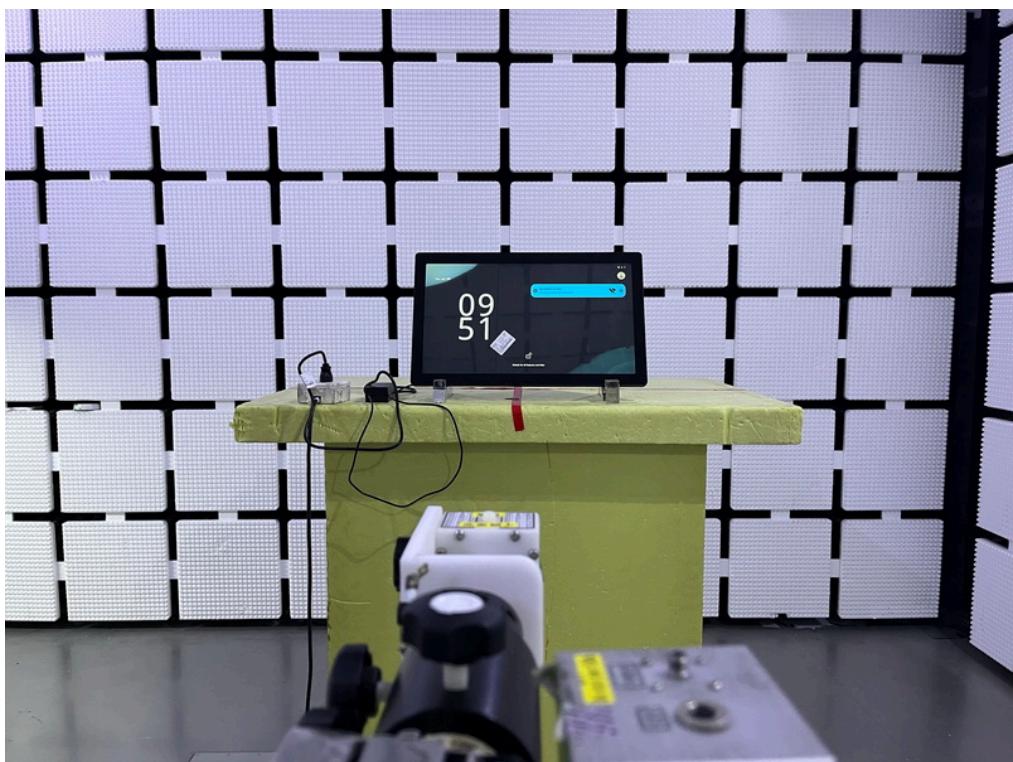
All calibration period of equipment list is one year.

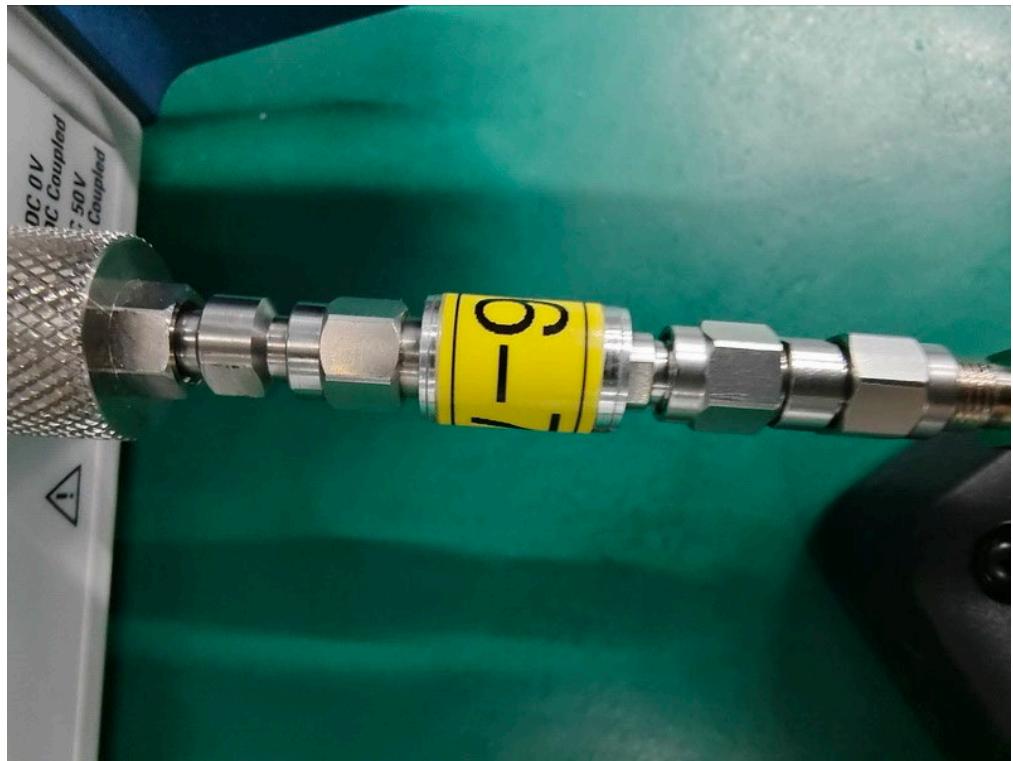
**11. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

**Radiated Emissions Test Photos****9 kHz to 30 MHz**

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

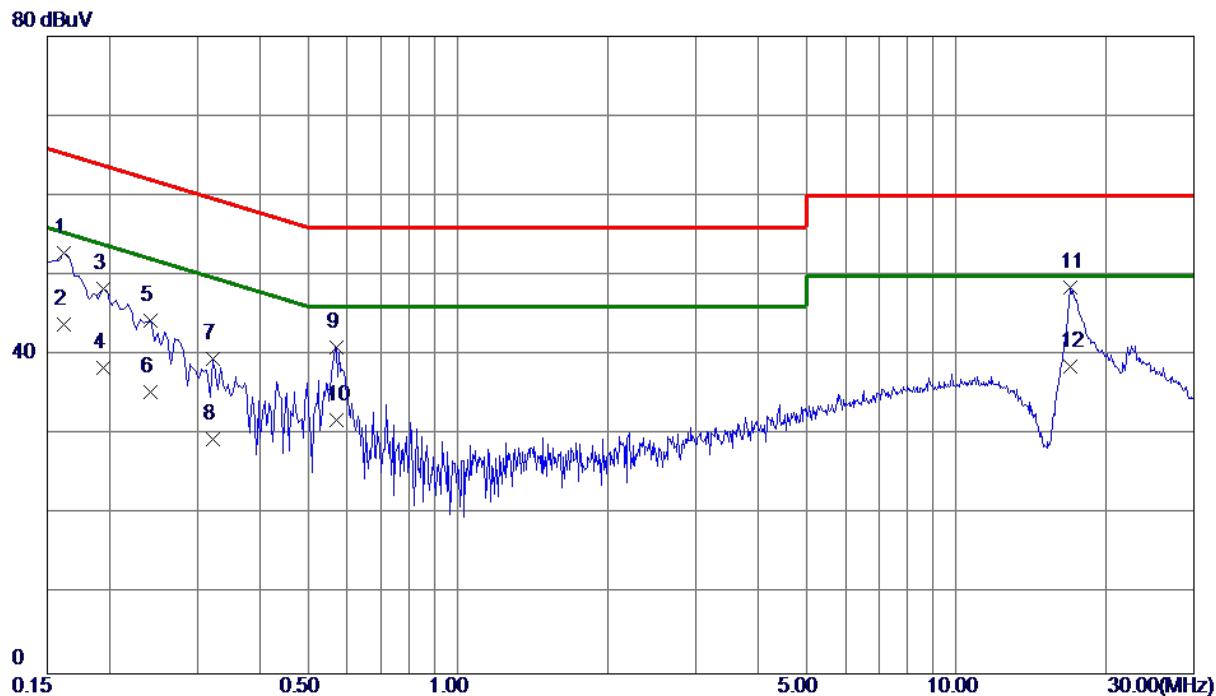
**Radiated Emissions Test Photos****1 GHz to 18 GHz**

**Radiated Emissions Test Photos****Above 18 GHz**

**Conducted Test Photos**

## APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX Mode Channel 00_500kbps(S=2)	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	0.1620	42.95	9.91	52.86	65.36	-12.50	QP	
2	0.1620	33.91	9.91	43.82	55.36	-11.54	AVG	
3	0.1940	38.48	9.91	48.39	63.86	-15.47	QP	
4	0.1940	28.50	9.91	38.41	53.86	-15.45	AVG	
5	0.2420	34.49	9.90	44.39	62.03	-17.64	QP	
6	0.2420	25.50	9.90	35.40	52.03	-16.63	AVG	
7	0.3220	29.52	9.93	39.45	59.66	-20.21	QP	
8	0.3220	19.49	9.93	29.42	49.66	-20.24	AVG	
9	0.5700	30.97	9.97	40.94	56.00	-15.06	QP	
10	0.5700	21.91	9.97	31.88	46.00	-14.12	AVG	
11	16.9700	34.23	14.27	48.50	60.00	-11.50	QP	
12 *	16.9700	24.30	14.27	38.57	50.00	-11.43	AVG	

**REMARKS:**

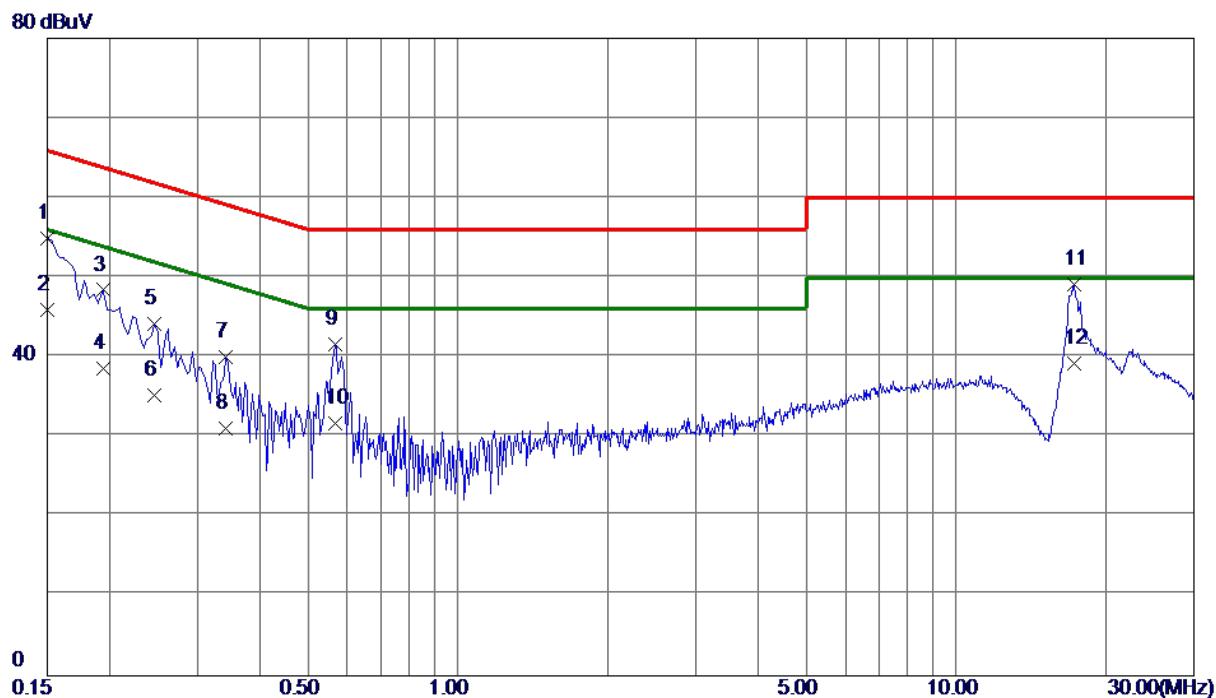
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode

TX Mode Channel 00\_500kbps(S=2)

Phase

Neutral



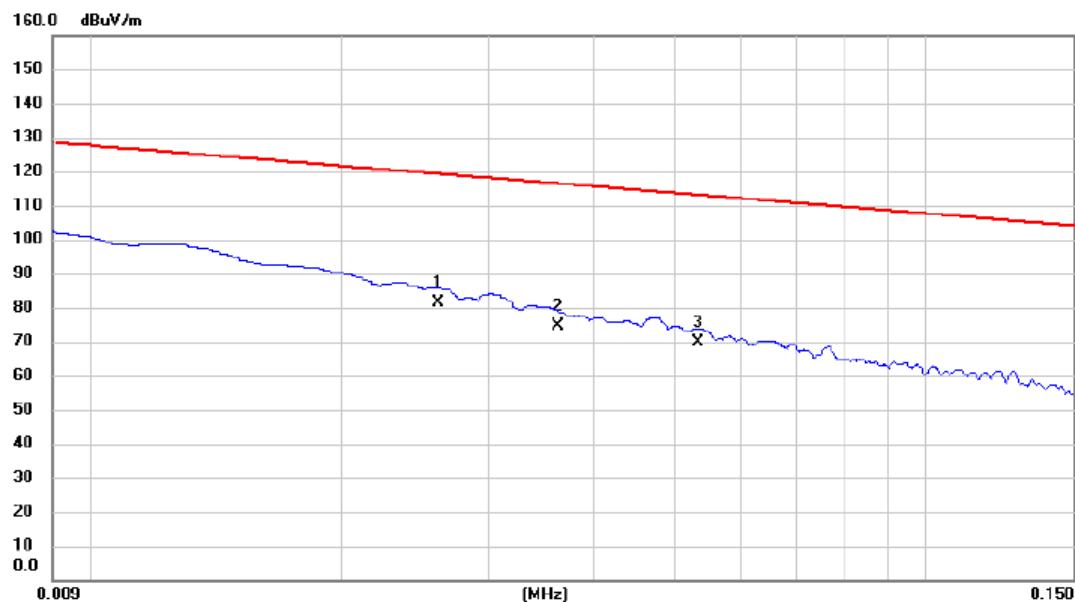
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0. 1500	44. 92	9. 97	54. 89	66. 00	-11. 11	QP	
2 *	0. 1500	35. 90	9. 97	45. 87	56. 00	-10. 13	AVG	
3	0. 1940	38. 43	9. 97	48. 40	63. 86	-15. 46	QP	
4	0. 1940	28. 60	9. 97	38. 57	53. 86	-15. 29	AVG	
5	0. 2460	34. 18	9. 98	44. 16	61. 89	-17. 73	QP	
6	0. 2460	25. 20	9. 98	35. 18	51. 89	-16. 71	AVG	
7	0. 3420	30. 00	9. 98	39. 98	59. 15	-19. 17	QP	
8	0. 3420	21. 10	9. 98	31. 08	49. 15	-18. 07	AVG	
9	0. 5660	31. 54	10. 03	41. 57	56. 00	-14. 43	QP	
10	0. 5660	21. 61	10. 03	31. 64	46. 00	-14. 36	AVG	
11	17. 2060	34. 92	14. 25	49. 17	60. 00	-10. 83	QP	
12	17. 2060	24. 90	14. 25	39. 15	50. 00	-10. 85	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 Channel 00_500kbps(S=2)	Polarization	Ant 0°
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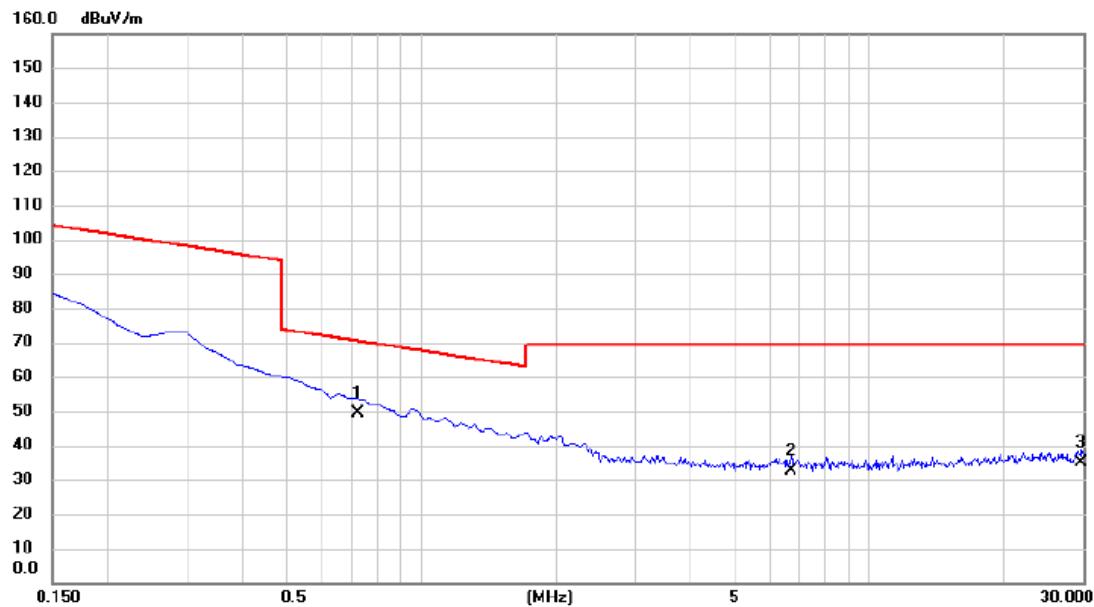


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB		
1	*	0.026	60.12	21.18	81.30	119.27	-37.97	AVG	
2		0.036	53.21	21.27	74.48	116.43	-41.95	AVG	
3		0.053	48.33	21.34	69.67	113.05	-43.38	AVG	

**REMARKS:**

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

Test Mode	TX Mode Channel 00_500kbps(S=2)	Polarization	Ant 0°
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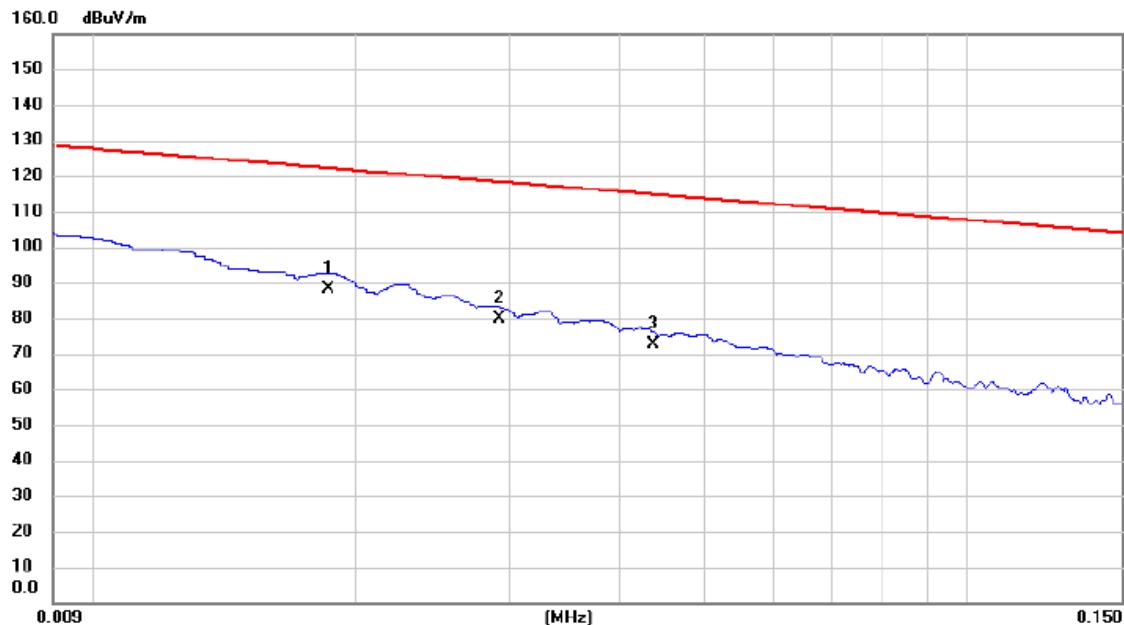


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.720	28.31	21.16	49.47	70.46	-20.99	QP	
2		6.687	11.21	21.47	32.68	69.54	-36.86	QP	
3		29.761	12.45	22.54	34.99	69.54	-34.55	QP	

**REMARKS:**

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

Test Mode	TX Mode Channel 00_500kbps(S=2)	Polarization	Ant 90°
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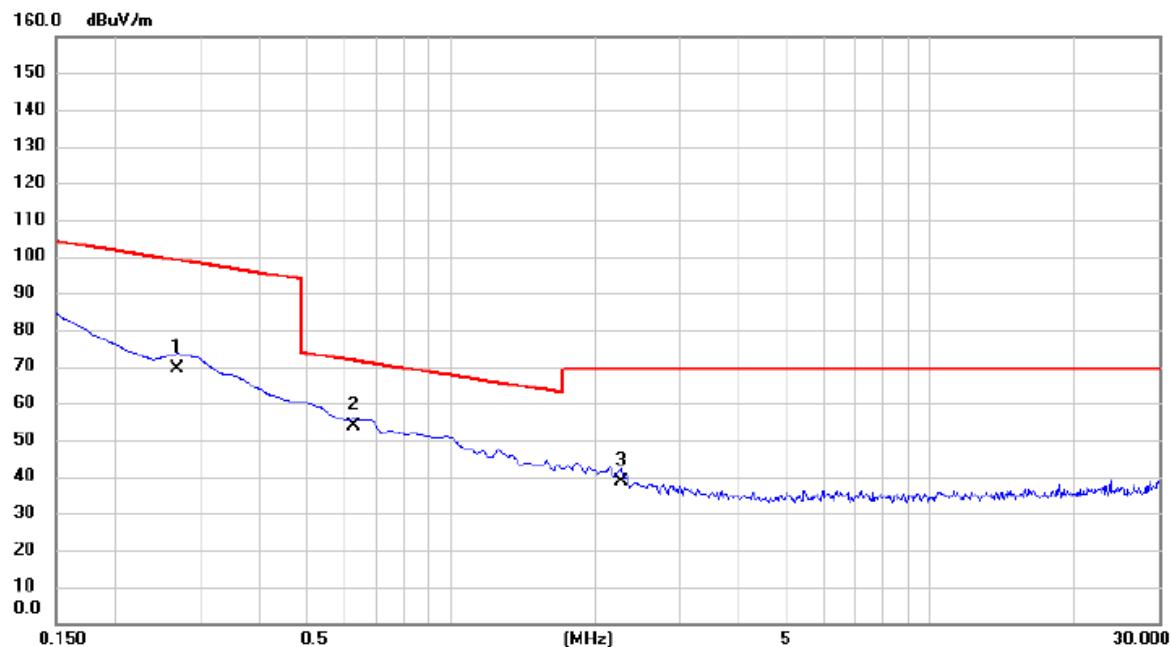


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.019	67.25	21.07	88.32	122.21	-33.89	AVG	
2		0.029	58.44	21.23	79.67	118.30	-38.63	AVG	
3		0.044	51.23	21.31	72.54	114.80	-42.26	AVG	

**REMARKS:**

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

Test Mode	TX Mode Channel 00_500kbps(S=2)	Polarization	Ant 90°
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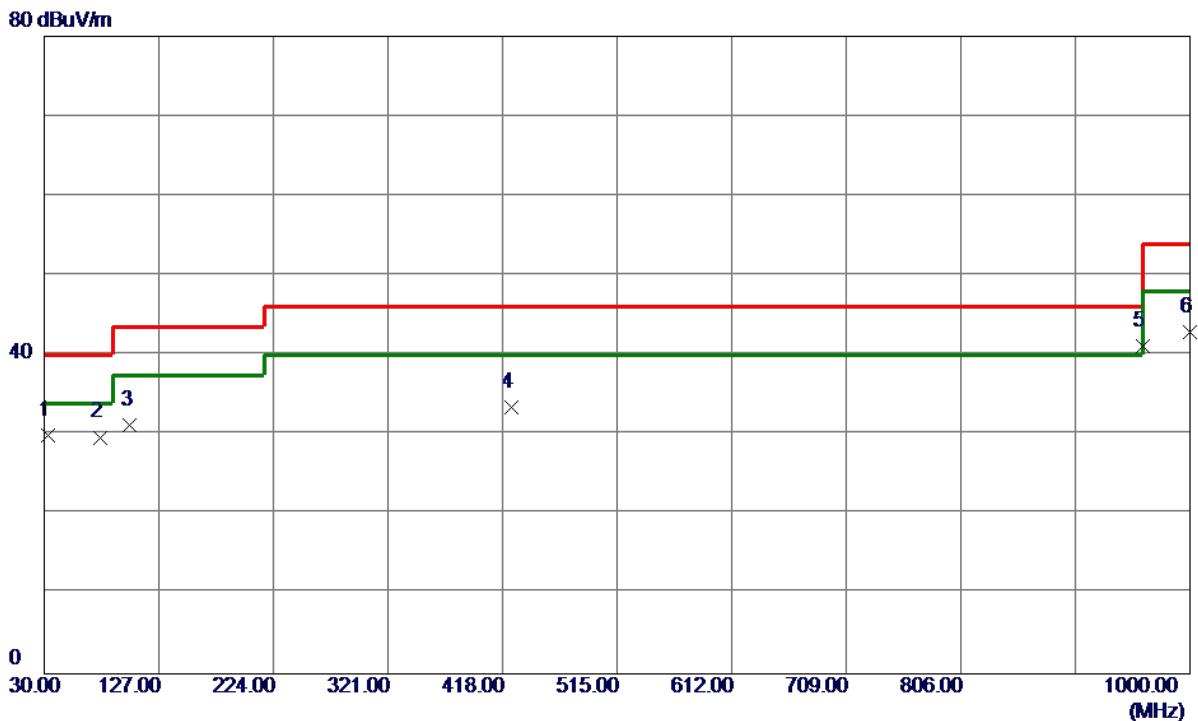
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB		
1		0.269	48.23	21.10	69.33	99.00	-29.67	AVG	
2	*	0.628	32.55	21.16	53.71	71.65	-17.94	QP	
3		2.269	17.25	21.22	38.47	69.54	-31.07	QP	

**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 Channel 00\_500kbps(S=2) Polarization Vertical

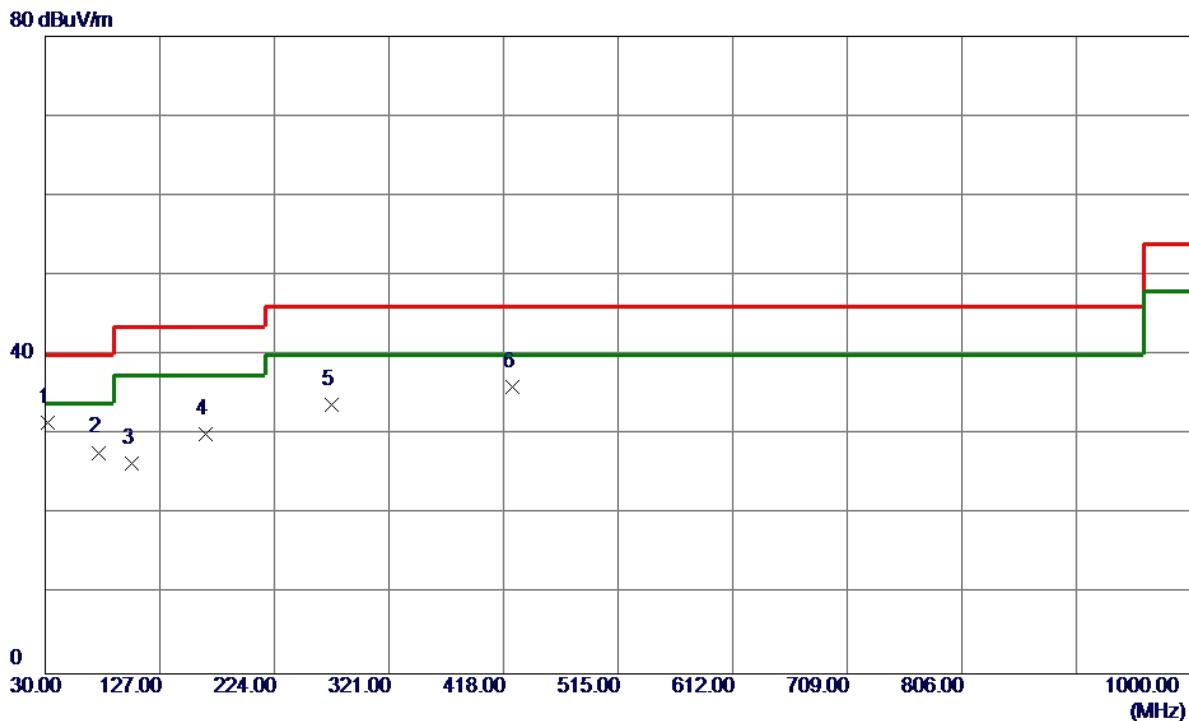


No.	Freq.	Reading Level	Correct Factor	Measure	ment	Limit Margin		Detector	Comment
						MHz	dBuV/m	dB	dBuV/m
1 *	32. 9100	42. 58	-12. 69	29. 89	40. 00	-10. 11	Peak		
2	77. 5300	44. 55	-14. 87	29. 68	40. 00	-10. 32	Peak		
3	102. 7500	46. 54	-15. 39	31. 15	43. 52	-12. 37	Peak		
4	425. 7600	40. 77	-7. 30	33. 47	46. 02	-12. 55	Peak		
5	960. 2300	40. 26	0. 85	41. 11	53. 97	-12. 86	Peak		
6	1000. 0000	41. 79	1. 03	42. 82	53. 97	-11. 15	Peak		

**REMARKS:**

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

Test Mode TX Mode Channel 00\_500kbps(S=2) Polarization Horizontal



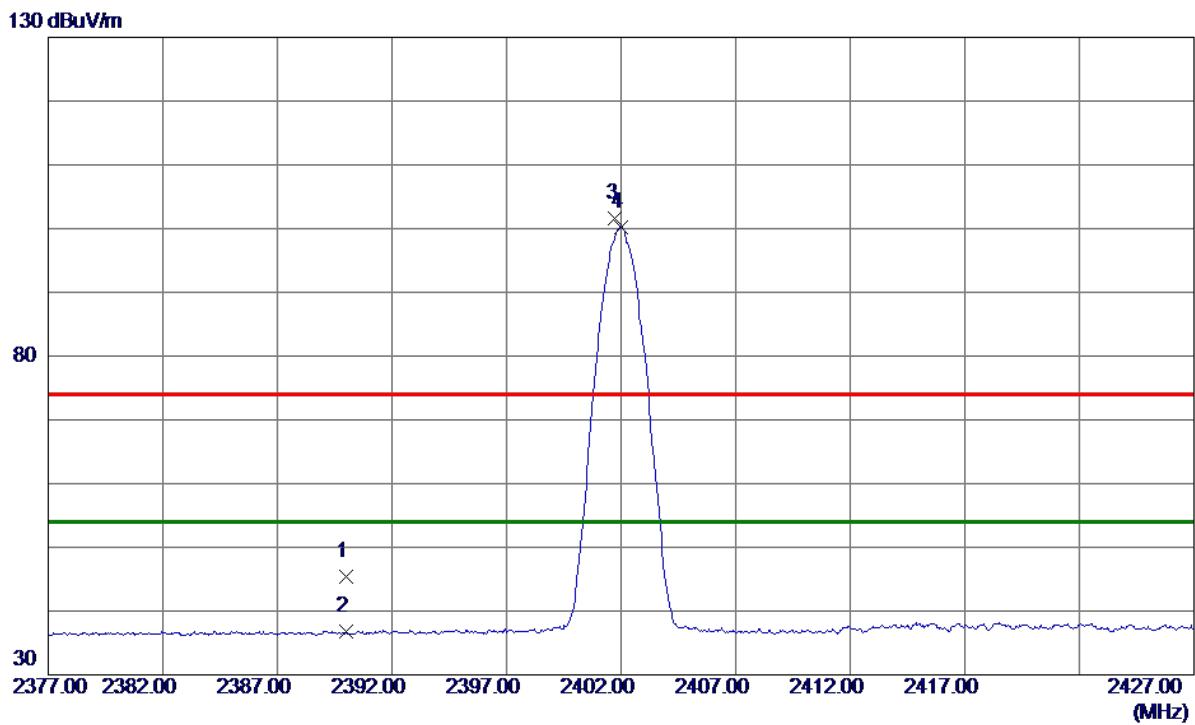
No.	Freq.	Reading Level	Correct Factor	Measure m	Limit	Margin		
						MHz	dBuV/m	dB
1 *	31. 9400	44. 40	-12. 87	31. 53	40. 00	-8. 47	Peak	
2	75. 5899	42. 15	-14. 39	27. 76	40. 00	-12. 24	Peak	
3	103. 7200	41. 64	-15. 26	26. 38	43. 52	-17. 14	Peak	
4	165. 8000	41. 41	-11. 28	30. 13	43. 52	-13. 39	Peak	
5	272. 5000	45. 07	-11. 32	33. 75	46. 02	-12. 27	Peak	
6	425. 7600	43. 26	-7. 30	35. 96	46. 02	-10. 06	Peak	

**REMARKS:**

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

**APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Vertical
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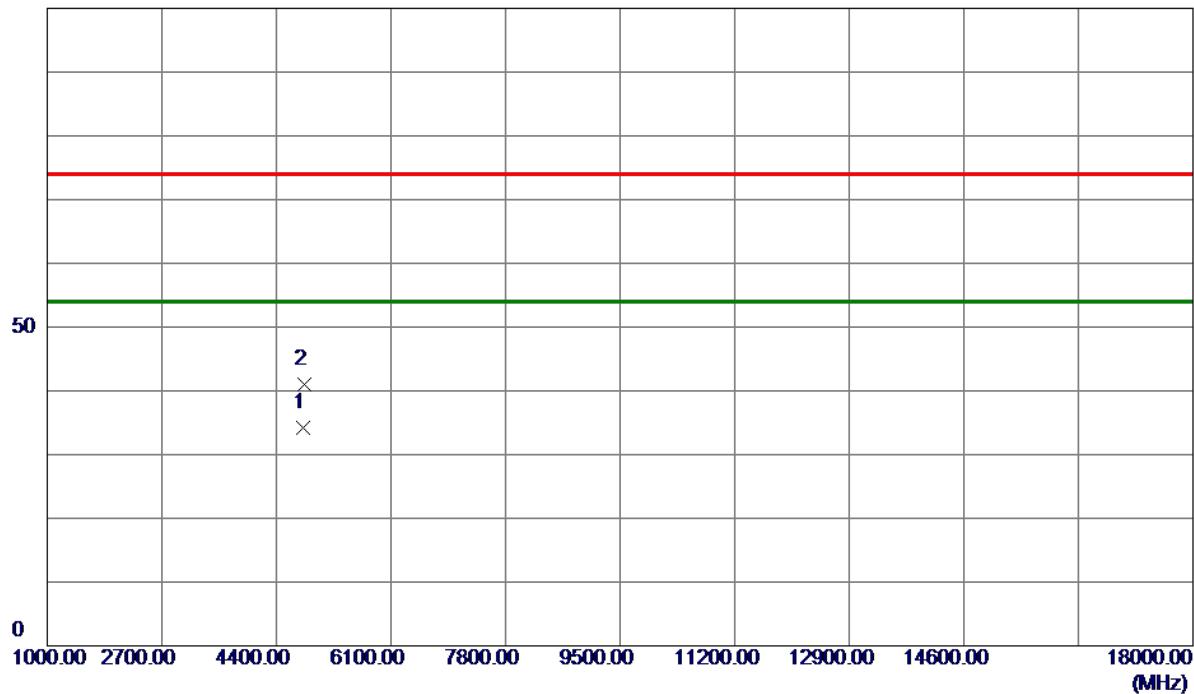
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1	2390.0000	38.69	6.75	45.44	74.00	-28.56	Peak	
2	2390.0000	30.07	6.75	36.82	54.00	-17.18	AVG	
3	2401.7500	94.81	6.78	101.59	74.00	27.59	Peak	No Limit
4 *	2401.9750	93.43	6.78	100.21	54.00	46.21	AVG	No Limit

**REMARKS:**

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

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Vertical
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100 dBuV/m



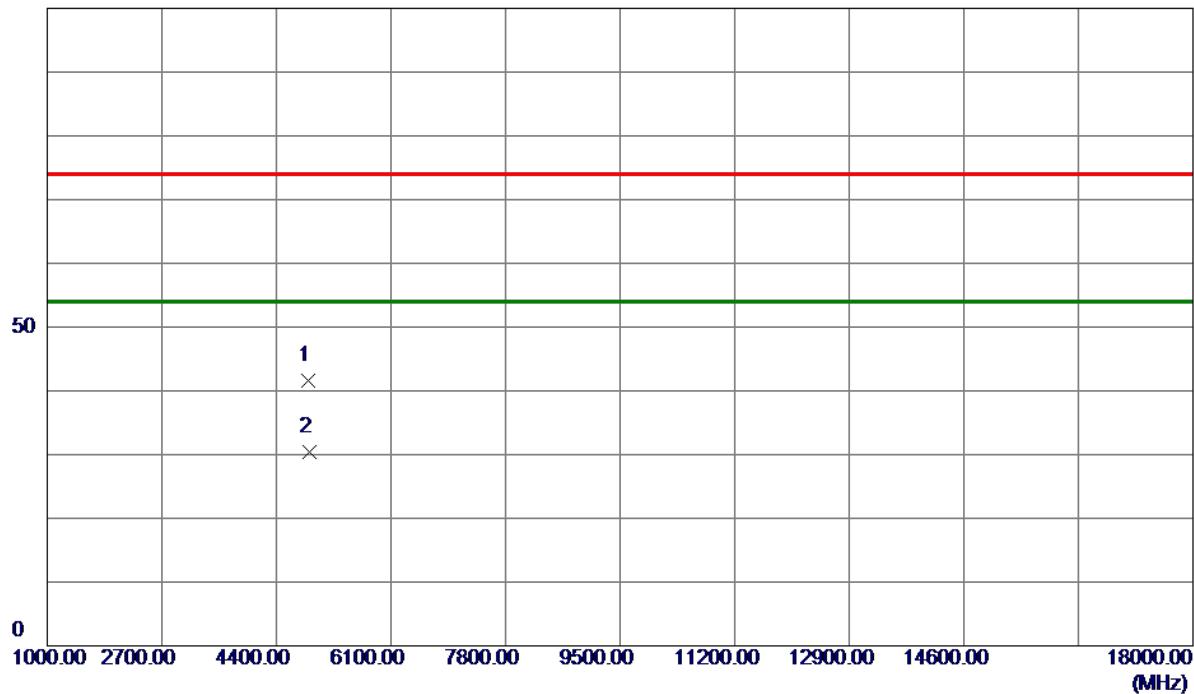
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m dB	Margin Detector	Comment
1 *	4799.9000	31.55	2.63	34.18	54.00 -19.82	AVG	
2	4808.7100	38.28	2.63	40.91	74.00 -33.09	Peak	

**REMARKS:**

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

Test Mode	TX 2440 MHz_CH19_1Mbps	Polarization	Vertical
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100 dBuV/m

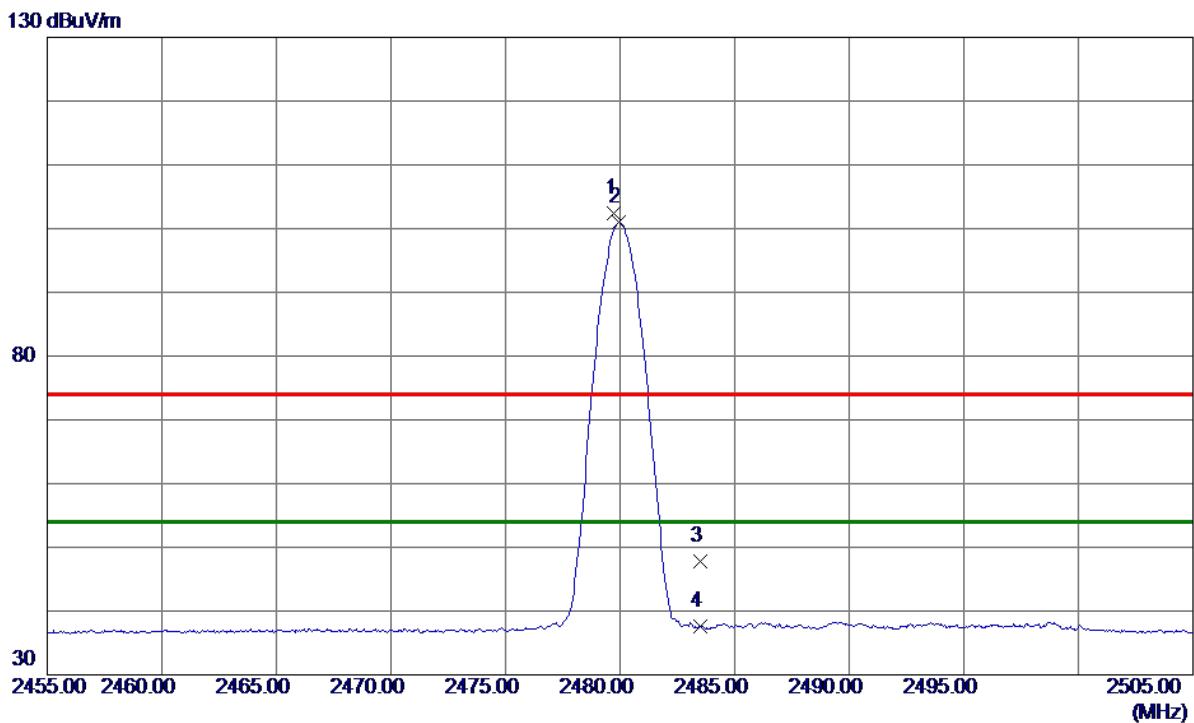


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin							
							MHz	dBuV/m	dB	dBuV/m	dB	Detector	Comment
1	4880.3700	38.87	2.67	41.54	74.00	-32.46	Peak						
2 *	4883.2799	27.80	2.67	30.47	54.00	-23.53	AVG						

## REMARKS:

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

Test Mode	TX 2480 MHz_CH39_1Mbps	Polarization	Vertical
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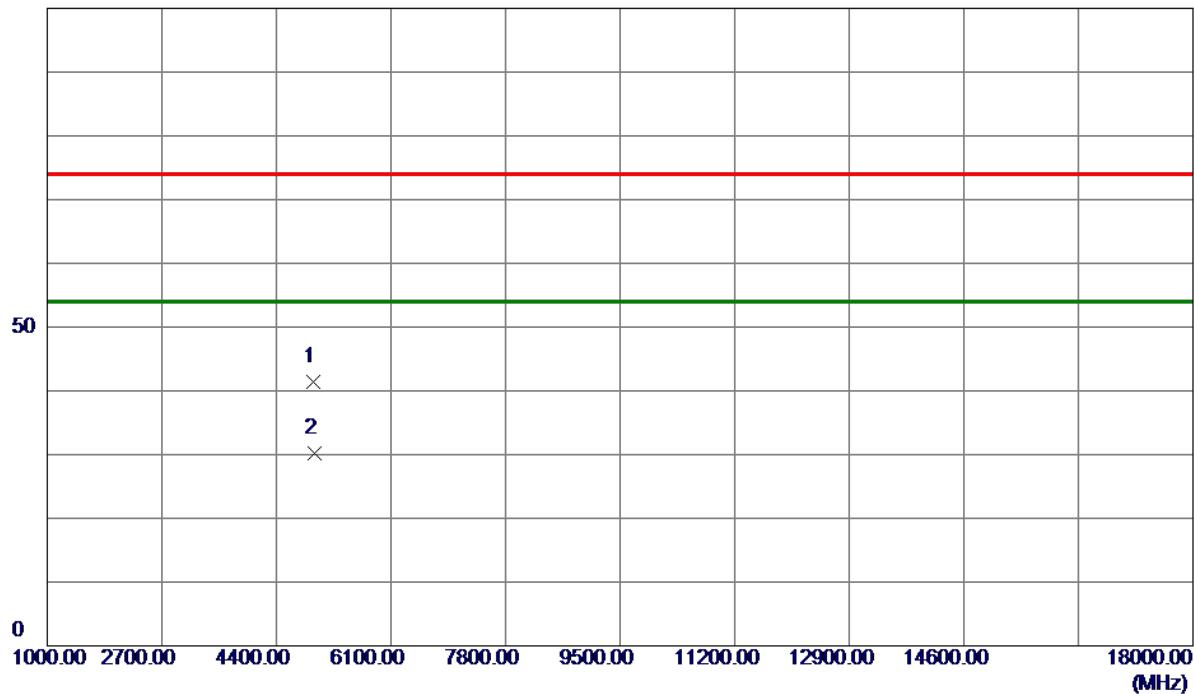
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1	2479.7500	95.40	6.92	102.32	74.00	28.32	Peak	No Limit
2 *	2479.9500	94.00	6.92	100.92	54.00	46.92	AVG	No Limit
3	2483.5000	40.89	6.93	47.82	74.00	-26.18	Peak	
4	2483.5000	30.68	6.93	37.61	54.00	-16.39	AVG	

**REMARKS:**

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

Test Mode	TX 2480 MHz_CH39_1Mbps	Polarization	Vertical
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100 dBuV/m



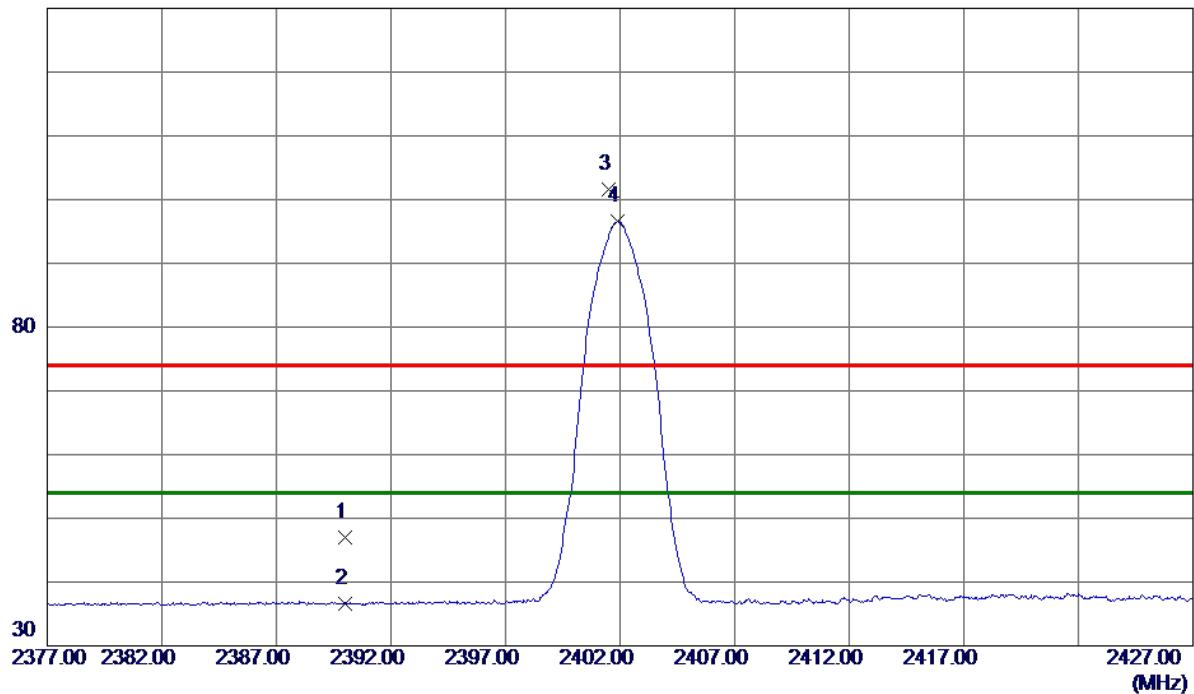
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m dB	Margin Detector	Comment
1	4950.1700	38.78	2.70	41.48	74.00	-32.52	Peak
2 *	4969.8900	27.56	2.71	30.27	54.00	-23.73	AVG

## REMARKS:

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

Test Mode	TX 2402 MHz_CH00_2Mbps	Polarization	Vertical
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130 dBuV/m



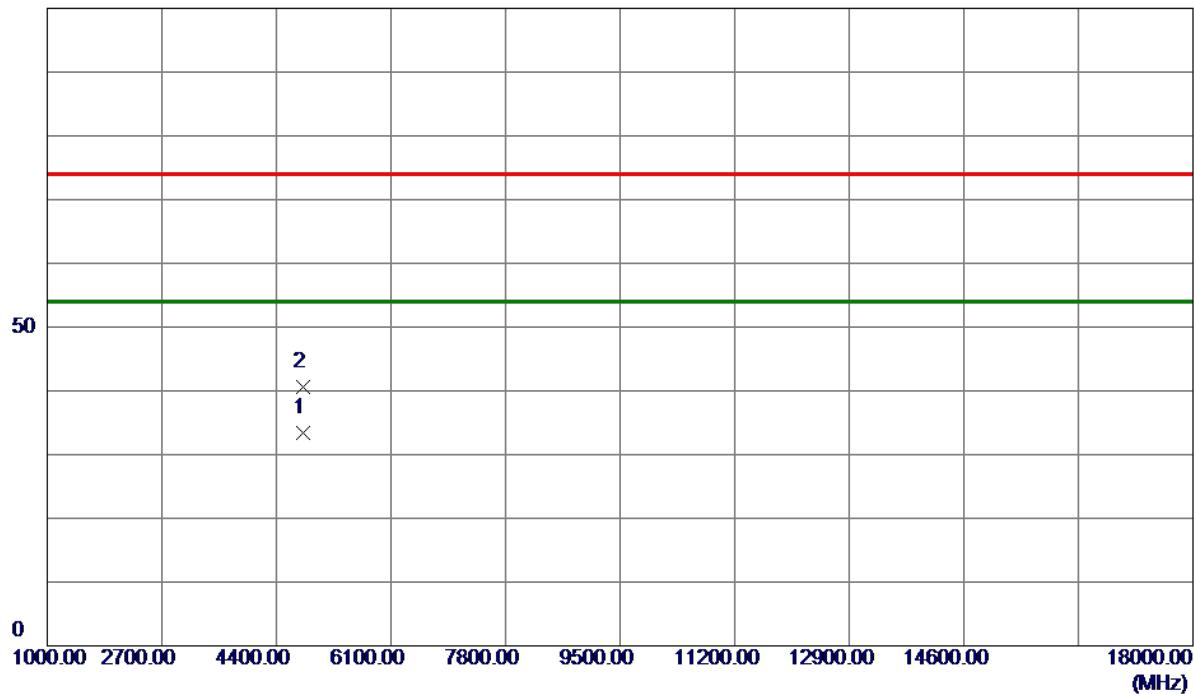
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin dB	Margin	
							Detector	Comment
1	2390.0000	40.30	6.75	47.05	74.00	-26.95	Peak	
2	2390.0000	29.91	6.75	36.66	54.00	-17.34	AVG	
3	2401.5000	94.75	6.77	101.52	74.00	27.52	Peak	No Limit
4 *	2401.9000	89.80	6.78	96.58	54.00	42.58	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	Vertical
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100 dBuV/m



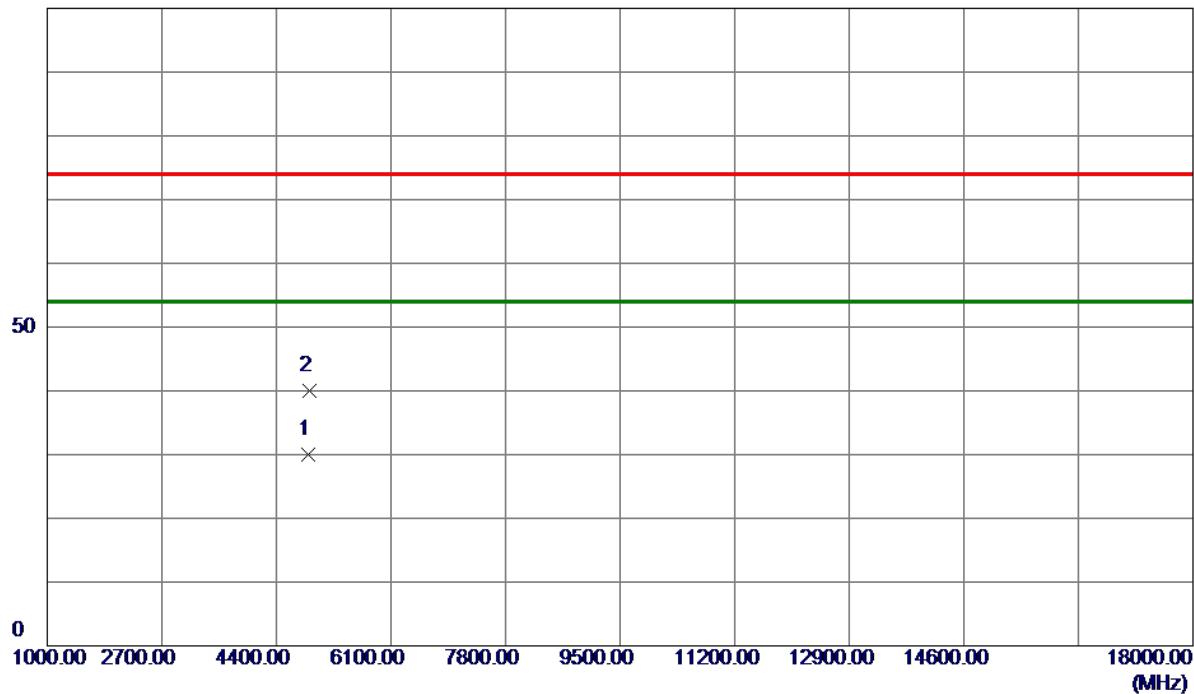
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4799.7100	30.74	2.63	33.37	54.00	-20.63	AVG	
2	4799.7900	37.89	2.63	40.52	74.00	-33.48	Peak	

**REMARKS:**

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

Test Mode	TX 2440 MHz_CH19_2Mbps	Polarization	Vertical
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100 dBuV/m



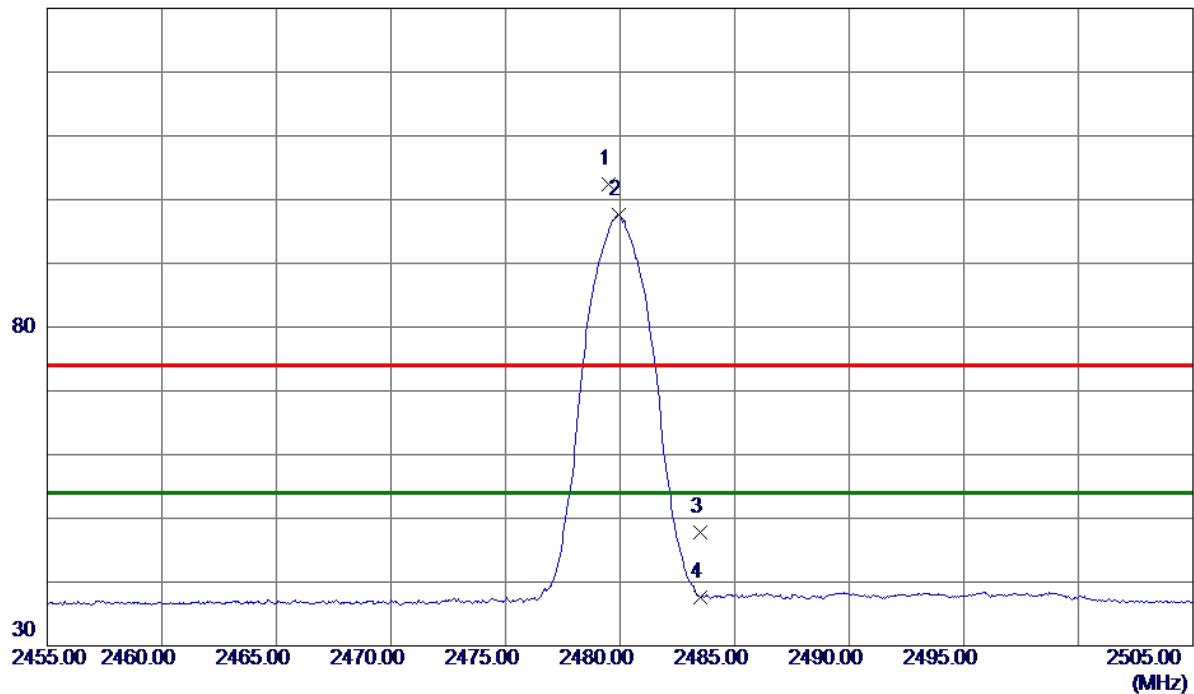
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor	Measure ment dBuV/m	Limit dB	Margin	
						Detector	Comment
1 *	4879.8300	27.35	2.67	30.02	54.00	-23.98	AVG
2	4886.4200	37.38	2.67	40.05	74.00	-33.95	Peak

**REMARKS:**

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

Test Mode	TX 2480 MHz_CH39_2Mbps	Polarization	Vertical
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130 dBuV/m



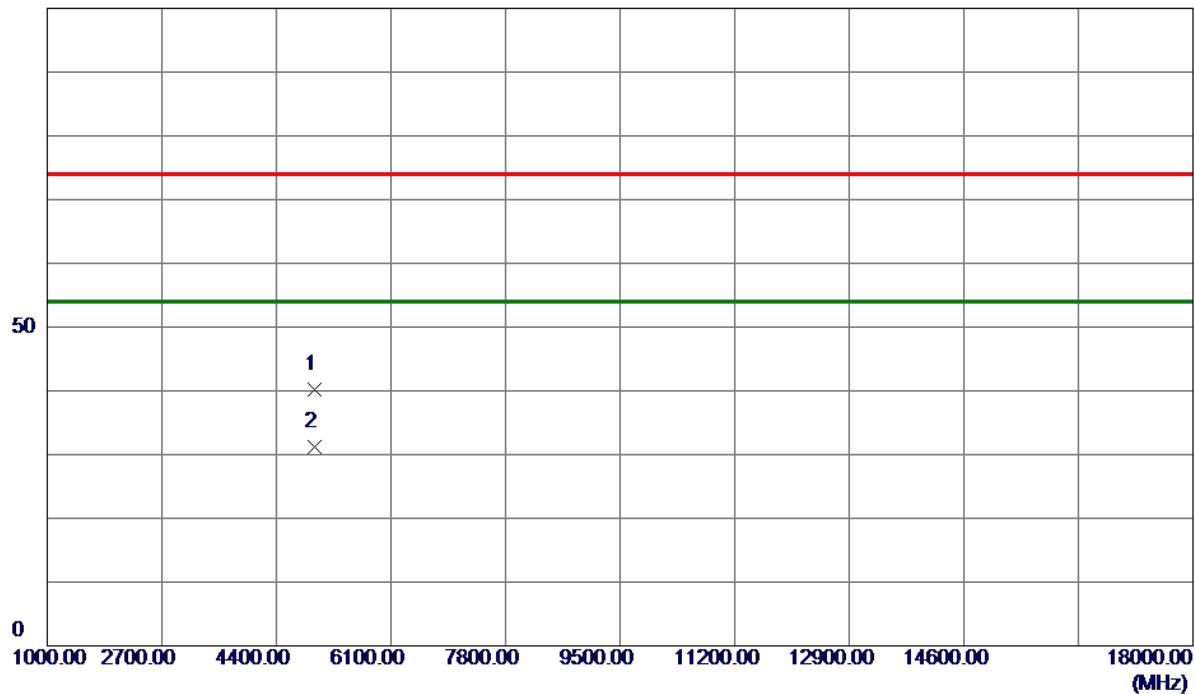
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2479.5000	95.53	6.92	102.45	74.00	28.45	Peak	No Limit
2 *	2479.9250	90.67	6.92	97.59	54.00	43.59	AVG	No Limit
3	2483.5000	40.79	6.93	47.72	74.00	-26.28	Peak	
4	2483.5000	30.71	6.93	37.64	54.00	-16.36	AVG	

## REMARKS:

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

Test Mode	TX 2480 MHz_CH39_2Mbps	Polarization	Vertical
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100 dBuV/m

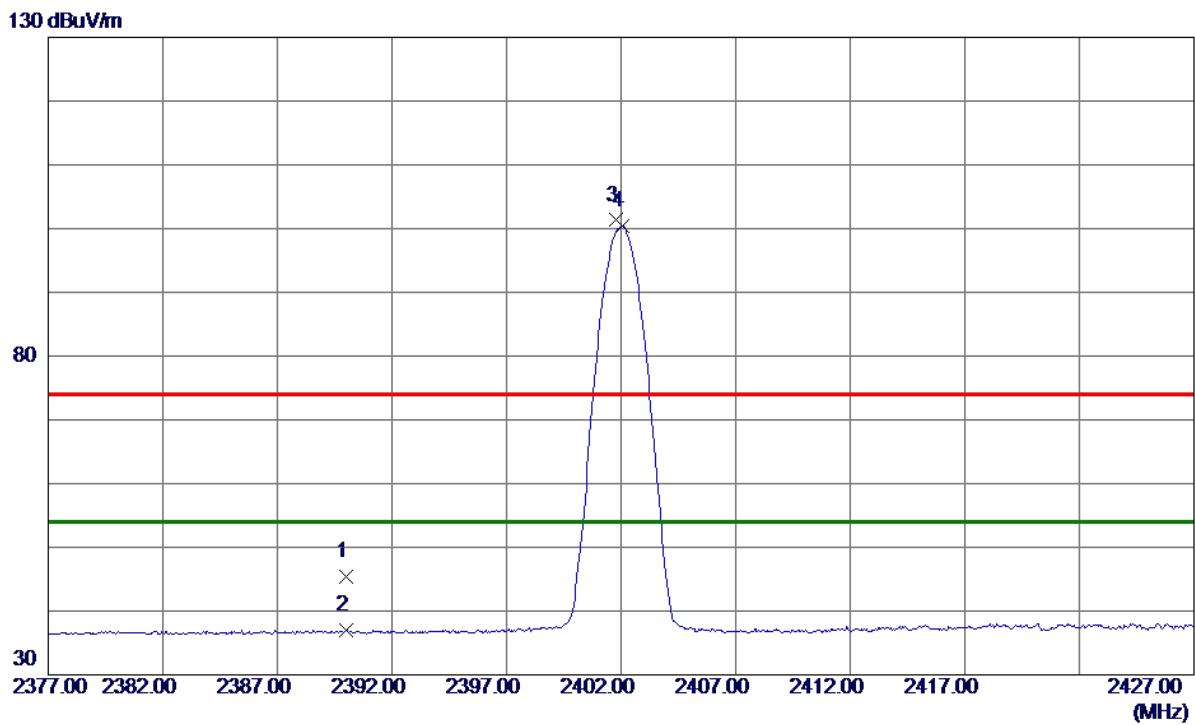


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
							MHz	dBuV/m
1	4962.1100	37.46	2.71	40.17	74.00	-33.83	Peak	
2 *	4969.4100	28.51	2.71	31.22	54.00	-22.78	AVG	

## REMARKS:

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

Test Mode	TX 2402 MHz_CH00_500kbps(S=2)	Polarization	Vertical
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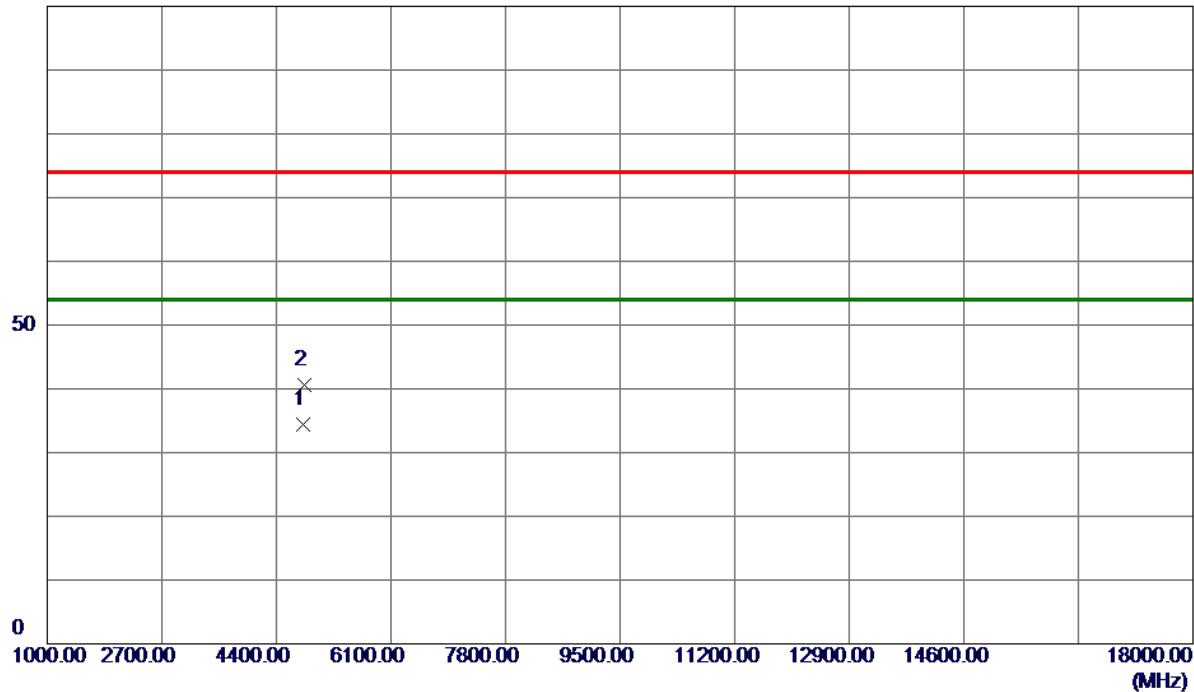
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	38.63	6.75	45.38	74.00	-28.62	Peak	
2	2390.0000	30.26	6.75	37.01	54.00	-16.99	AVG	
3	2401.7750	94.52	6.78	101.30	74.00	27.30	Peak	No Limit
4 *	2402.0500	93.65	6.78	100.43	54.00	46.43	AVG	No Limit

**REMARKS:**

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

Test Mode	TX 2402 MHz_CH00_500kbps(S=2)	Polarization	Vertical
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100 dBuV/m



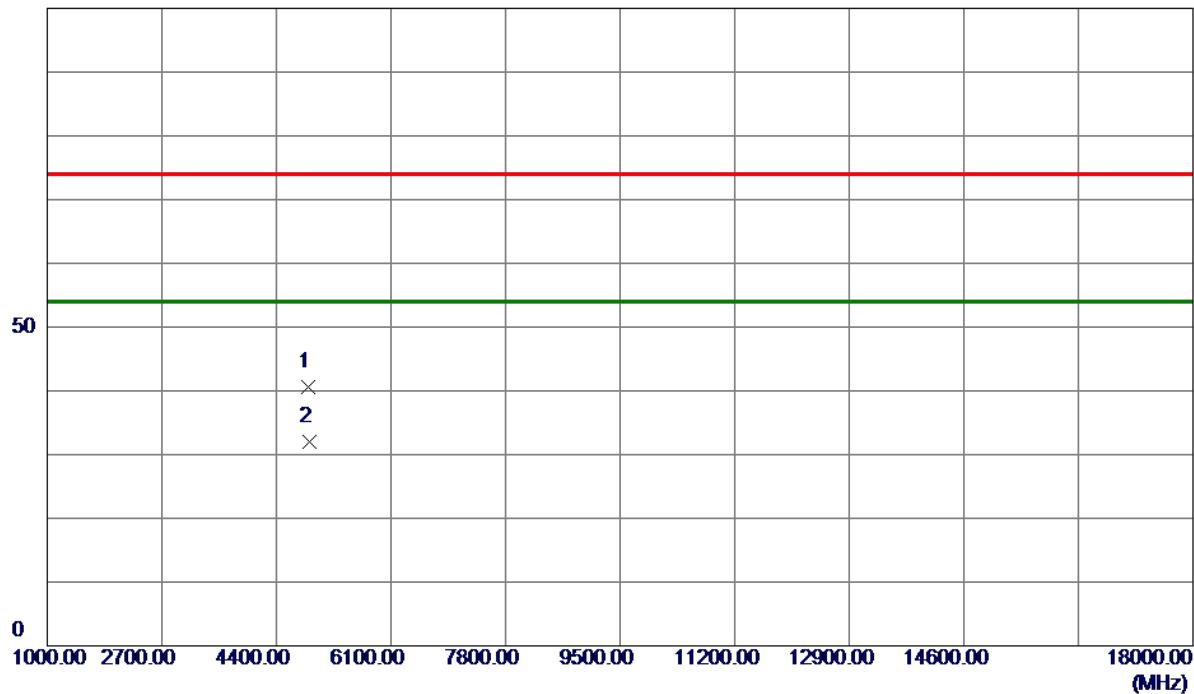
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Margin	
							Detector	Comment
1 *	4799.9500	31.68	2.63	34.31	54.00	-19.69	AVG	
2	4806.2400	37.99	2.63	40.62	74.00	-33.38	Peak	

## REMARKS:

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

Test Mode	TX 2440 MHz_CH19_500kbps(S=2)	Polarization	Vertical
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100 dBuV/m

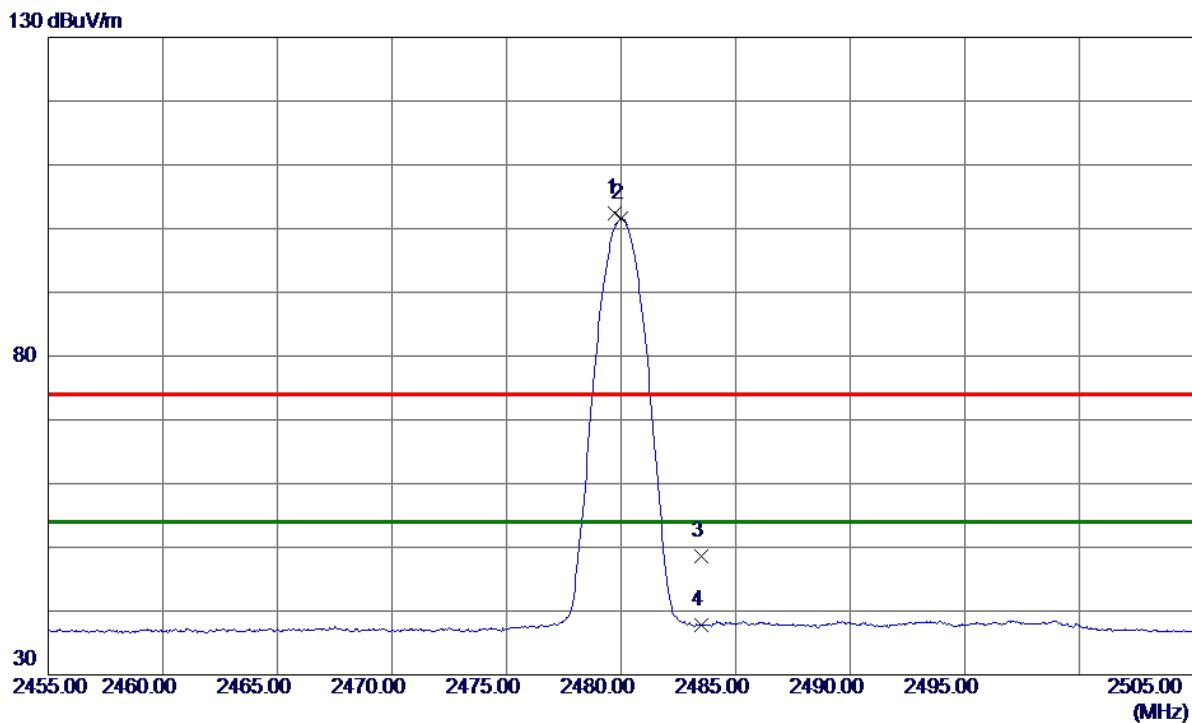


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4881.3600	37.87	2.67	40.54	74.00	-33.46	Peak	
2 *	4889.7000	29.30	2.67	31.97	54.00	-22.03	AVG	

## REMARKS:

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

Test Mode	TX 2480 MHz_CH39_500kbps(S=2)	Polarization	Vertical
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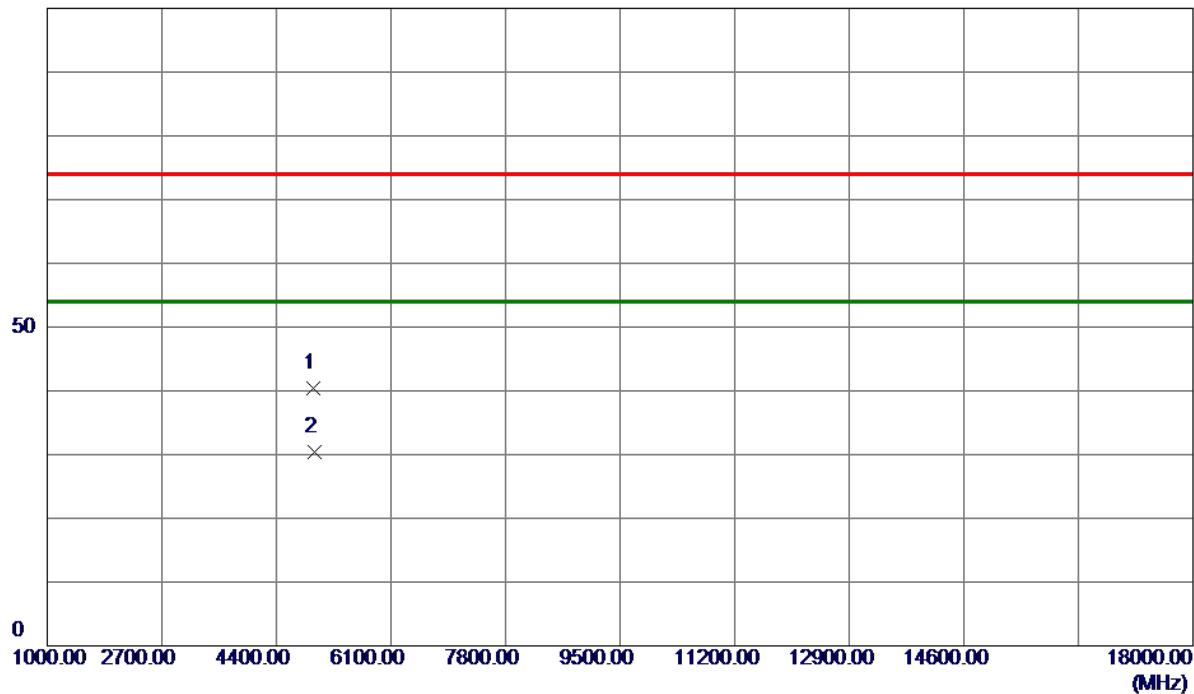
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1	2479.7500	95.54	6.92	102.46	74.00	28.46	Peak	No Limit
2 *	2480.0250	94.64	6.92	101.56	54.00	47.56	AVG	No Limit
3	2483.5000	41.75	6.93	48.68	74.00	-25.32	Peak	
4	2483.5000	30.91	6.93	37.84	54.00	-16.16	AVG	

**REMARKS:**

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

Test Mode	TX 2480 MHz_CH39_500kbps(S=2)	Polarization	Vertical
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100 dBuV/m

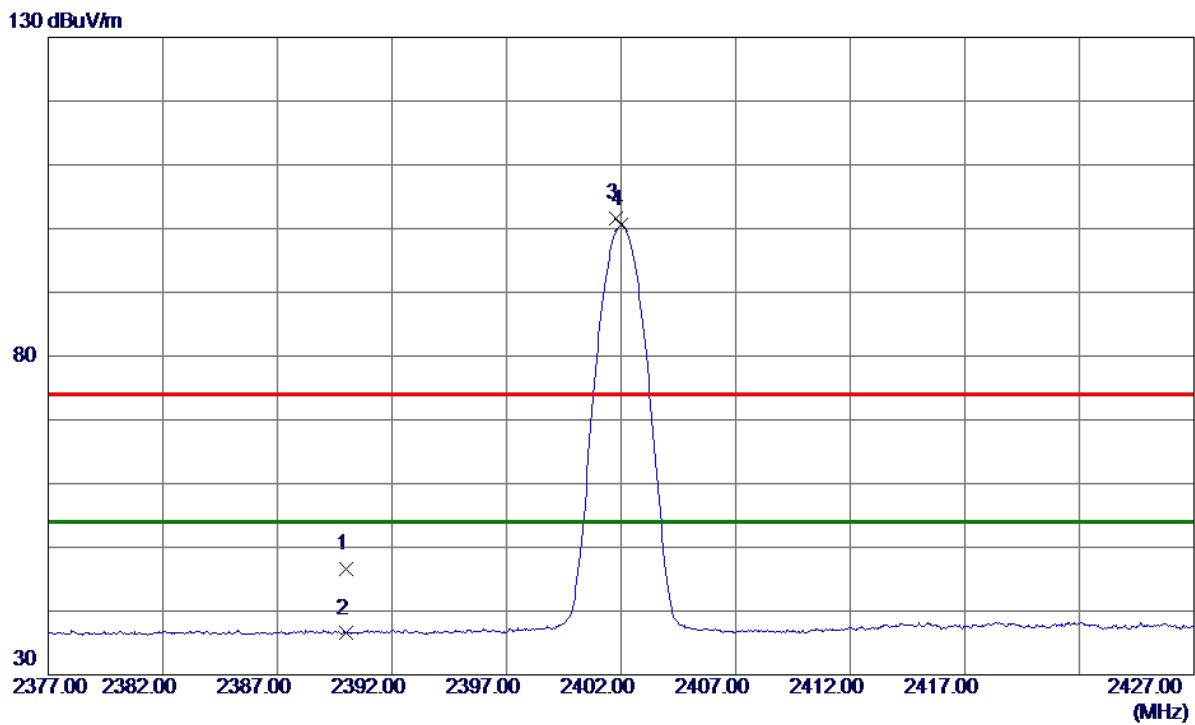


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin dB	Margin	
							Detector	Comment
1	4953.6800	37.68	2.71	40.39	74.00	-33.61	Peak	
2 *	4969.5099	27.72	2.71	30.43	54.00	-23.57	AVG	

## REMARKS:

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

Test Mode	TX 2402 MHz_CH00_125kbps(S=8)	Polarization	Vertical
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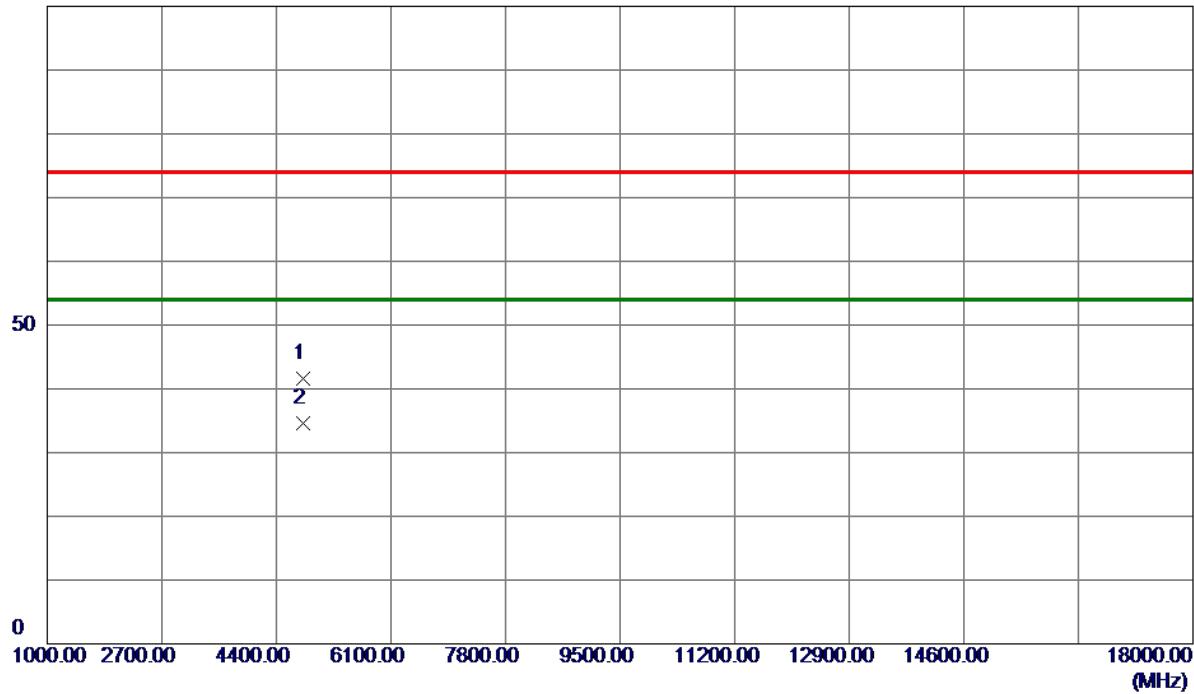
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2390.0000	39.84	6.75	46.59	74.00	-27.41	Peak	
2	2390.0000	29.75	6.75	36.50	54.00	-17.50	AVG	
3	2401.7750	94.79	6.78	101.57	74.00	27.57	Peak	No Limit
4 *	2402.0250	93.77	6.78	100.55	54.00	46.55	AVG	No Limit

**REMARKS:**

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

Test Mode	TX 2402 MHz_CH00_125kbps(S=8)	Polarization	Vertical
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100 dBuV/m



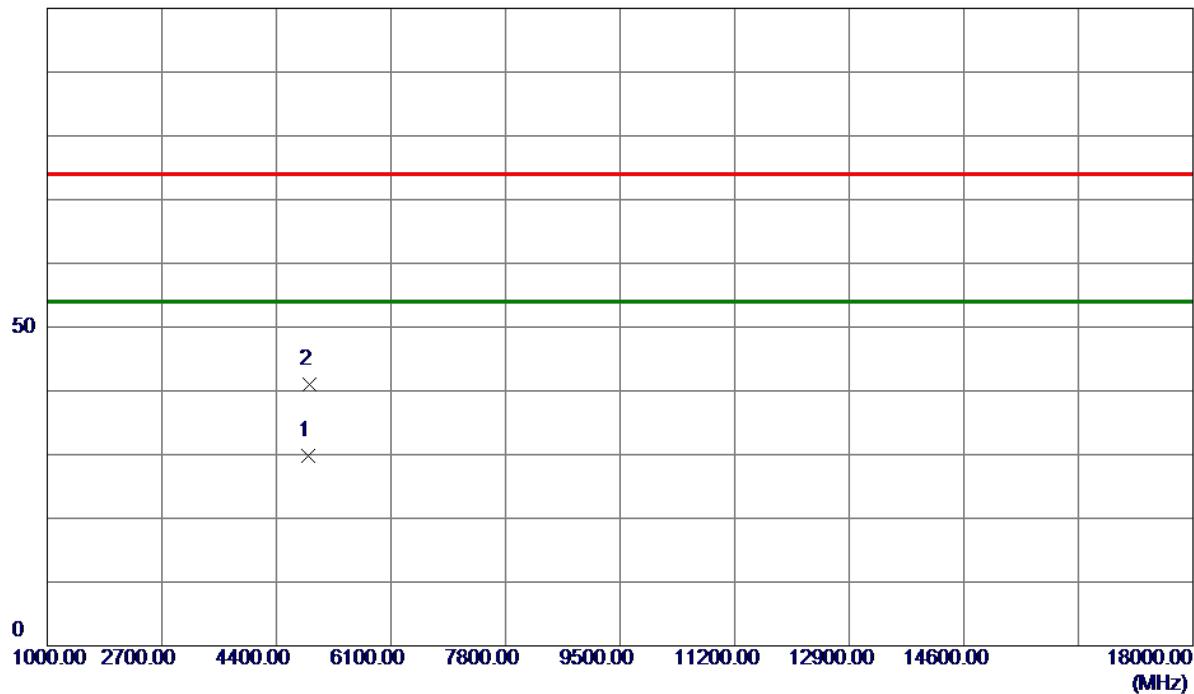
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dB			
1	4798.3400	38.92	2.63	41.55	74.00	-32.45	Peak	
2 *	4799.7200	31.90	2.63	34.53	54.00	-19.47	AVG	

**REMARKS:**

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

Test Mode	TX 2440 MHz_CH19_125kbps(S=8)	Polarization	Vertical
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100 dBuV/m

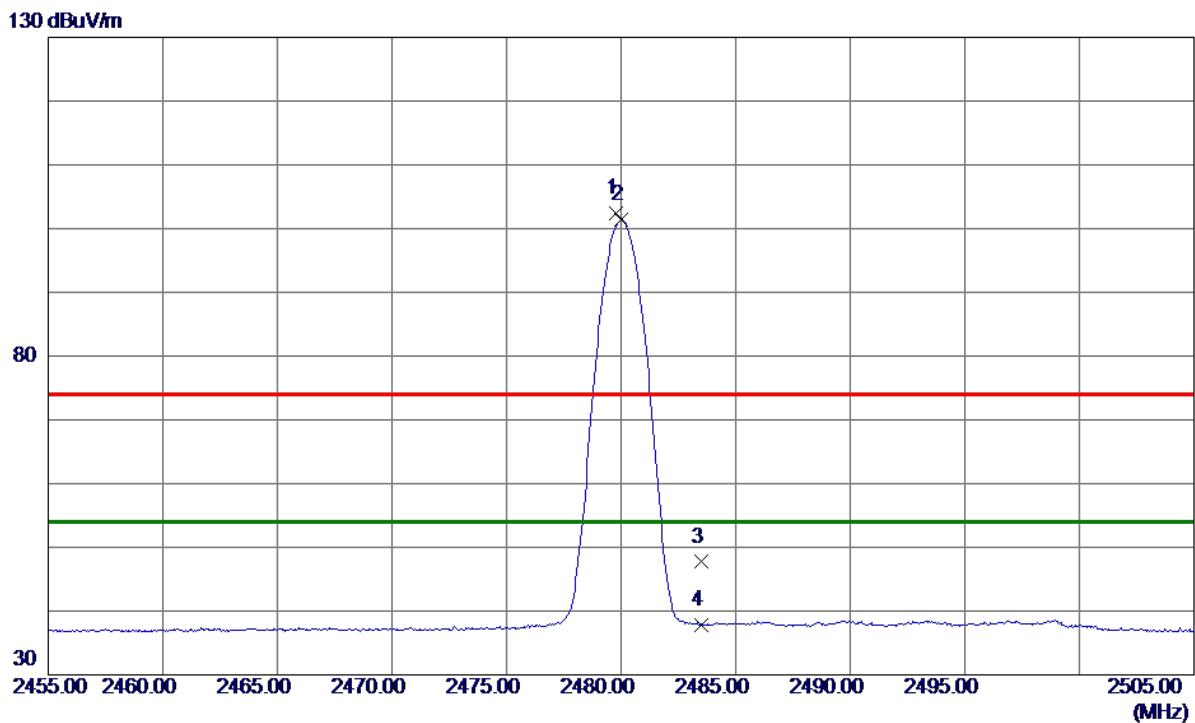


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4876.7599	27.18	2.67	29.85	54.00	-24.15	AVG	
2	4887.8400	38.35	2.67	41.02	74.00	-32.98	Peak	

**REMARKS:**

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

Test Mode	TX 2480 MHz_CH39_125kbps(S=8)	Polarization	Vertical
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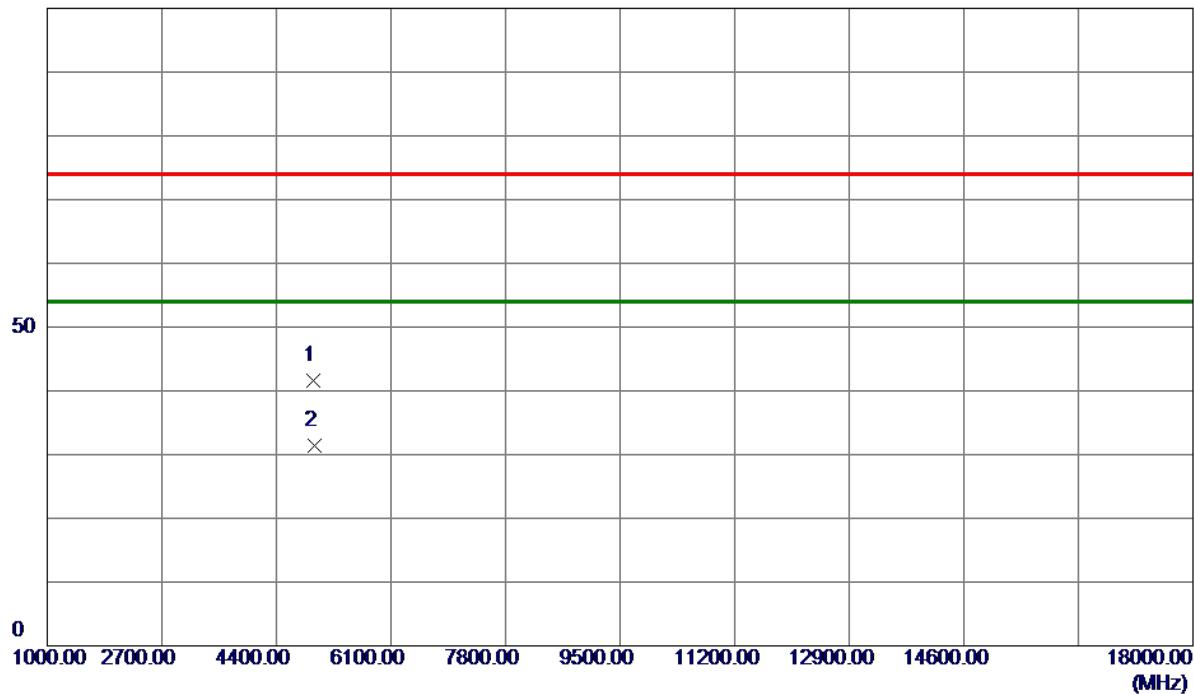
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dB		Detector Comment
1	2479.7750	95.48	6.92	102.40	74.00	28.40	Peak No Limit
2 *	2480.0000	94.46	6.92	101.38	54.00	47.38	AVG No Limit
3	2483.5000	40.77	6.93	47.70	74.00	-26.30	Peak
4	2483.5000	30.94	6.93	37.87	54.00	-16.13	AVG

**REMARKS:**

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

Test Mode	TX 2480 MHz_CH39_125kbps(S=8)	Polarization	Vertical
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100 dBuV/m

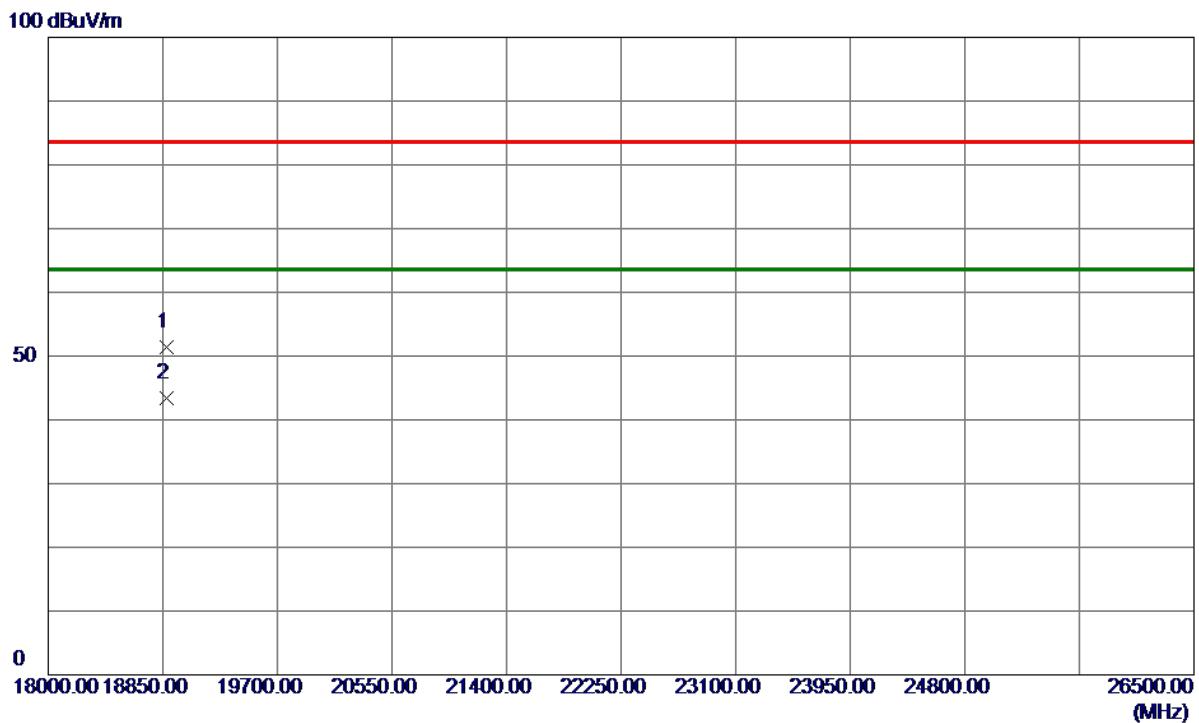


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dB	Margin dB	Margin	
							Detector	Comment
1	4954.3800	38.98	2.71	41.69	74.00	-32.31	Peak	
2 *	4969.3400	28.60	2.71	31.31	54.00	-22.69	AVG	

## REMARKS:

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

Test Mode	TX 2402 MHz_CH00_500kbps(S=2)	Polarization	Vertical
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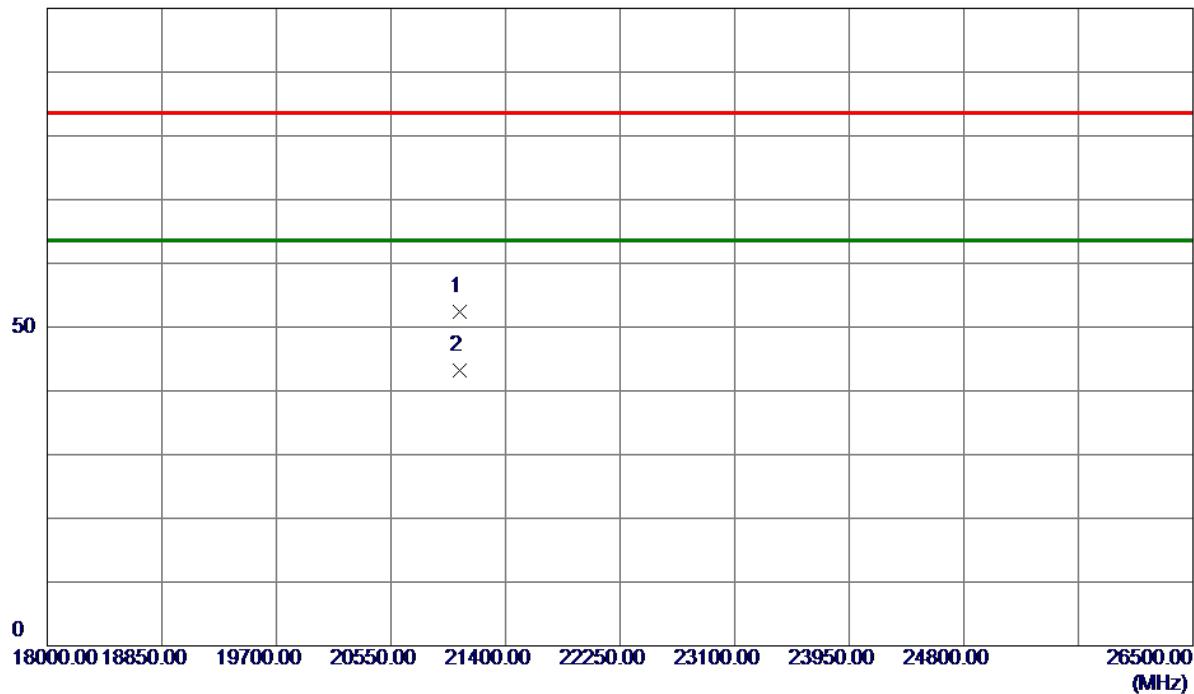
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	18875.5000	53.34	-1.85	51.49	83.50	-32.01	Peak	
2 *	18875.5000	45.21	-1.85	43.36	63.50	-20.14	AVG	

**REMARKS:**

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

Test Mode	TX 2402 MHz_CH00_500kbps(S=2)	Polarization	Horizontal
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100 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	21060.000	51.39	0.92	52.31	83.50	-31.19	Peak	
2 *	21060.000	42.35	0.92	43.27	63.50	-20.23	AVG	

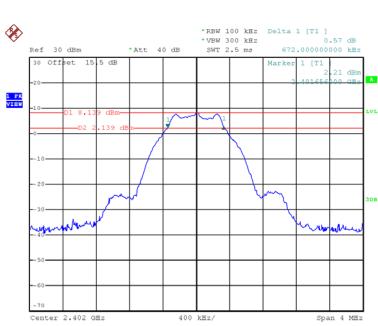
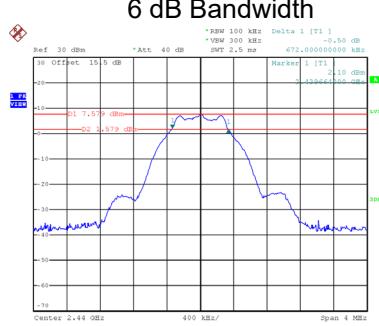
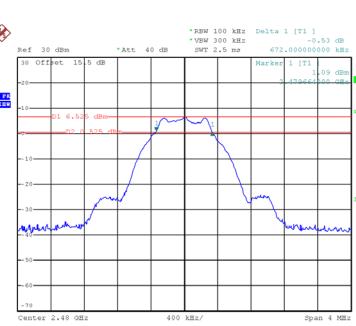
**REMARKS:**

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

## APPENDIX E - BANDWIDTH

Test Mode	TX Mode_1Mbps
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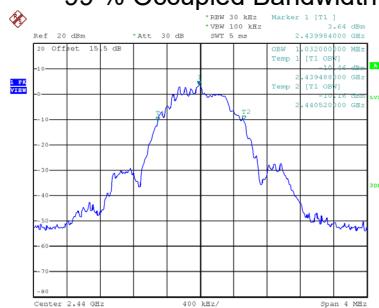
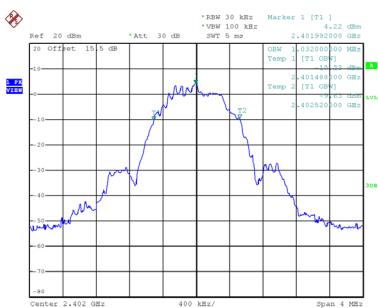
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.672	1.032	0.5	Pass
19	2440	0.672	1.032	0.5	Pass
39	2480	0.672	1.032	0.5	Pass

**CH00**

**CH19  
6 dB Bandwidth**

**CH39**


Date: 19.MAY.2025 10:39:50

Date: 19.MAY.2025 10:41:27

Date: 19.MAY.2025 10:43:00

**99 % Occupied Bandwidth**


Date: 19.MAY.2025 10:40:01

Date: 19.MAY.2025 10:41:38

Date: 19.MAY.2025 10:43:11

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	1.136	2.016	0.5	Pass
19	2440	1.136	2.016	0.5	Pass
39	2480	1.144	2.008	0.5	Pass

**CH00**

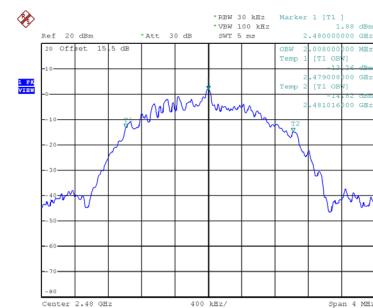
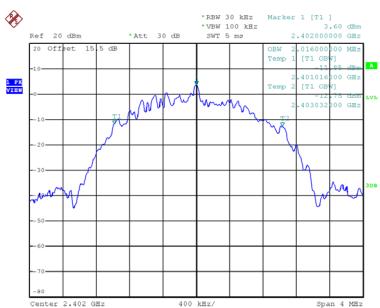
**CH19**  
**6 dB Bandwidth**

**CH39**


Date: 19.MAY.2025 10:56:47

Date: 19.MAY.2025 10:59:19

Date: 19.MAY.2025 11:01:10

**99 % Occupied Bandwidth**


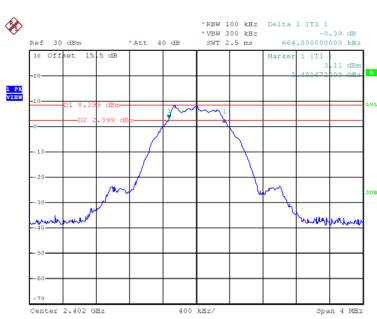
Date: 19.MAY.2025 10:56:58

Date: 19.MAY.2025 10:59:30

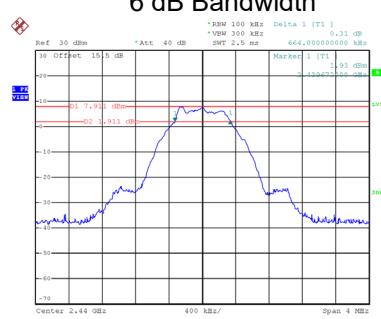
Date: 19.MAY.2025 11:01:21

Test Mode	TX Mode_500kbps(S=2)
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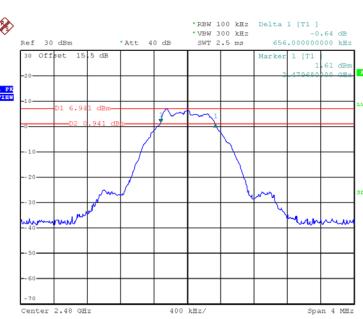
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.664	1.016	0.5	Pass
19	2440	0.664	1.016	0.5	Pass
39	2480	0.656	1.024	0.5	Pass

**CH00**


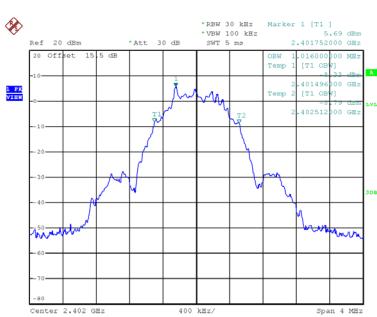
Date: 19.MAY.2025 11:08:56

**CH19**  
**6 dB Bandwidth**


Date: 19.MAY.2025 11:10:30

**CH39**


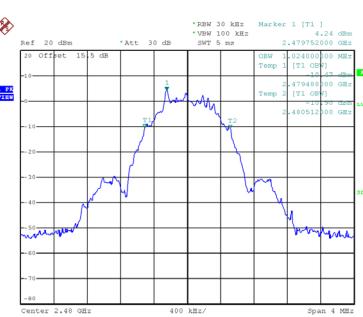
Date: 19.MAY.2025 11:12:09

**99 % Occupied Bandwidth**


Date: 19.MAY.2025 11:09:07



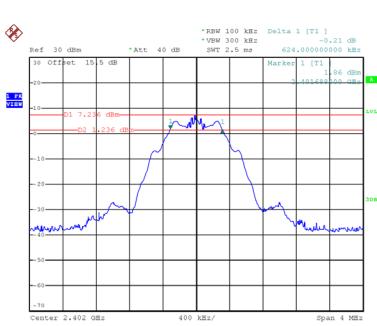
Date: 19.MAY.2025 11:10:42



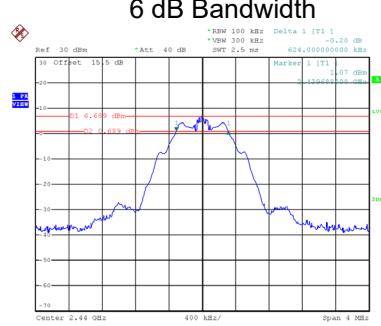
Date: 19.MAY.2025 11:12:20

Test Mode	TX Mode_125kbps(S=8)
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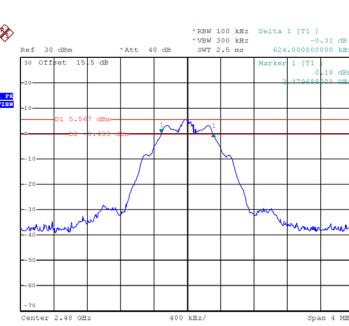
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.624	1.056	0.5	Pass
19	2440	0.624	1.048	0.5	Pass
39	2480	0.624	1.048	0.5	Pass

**CH00**


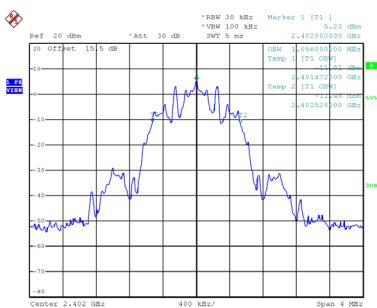
Date: 19.MAY.2025 11:16:53

**CH19**  
**6 dB Bandwidth**


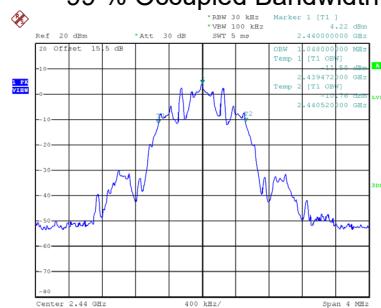
Date: 19.MAY.2025 11:18:54

**CH39**


Date: 19.MAY.2025 11:20:23

**99 % Occupied Bandwidth**


Date: 19.MAY.2025 11:17:04



Date: 19.MAY.2025 11:19:05



Date: 19.MAY.2025 11:20:34

**APPENDIX F - MAXIMUM OUTPUT POWER**

Test Mode	TX Mode_1Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	6.68	0.0047	30.00	1.0000	Pass
2440	6.27	0.0042	30.00	1.0000	Pass
2480	5.12	0.0033	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

Test Mode	TX Mode_2Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	3.94	0.0025	30.00	1.0000	Pass
2440	3.55	0.0023	30.00	1.0000	Pass
2480	2.21	0.0017	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

Test Mode	TX Mode_500kbps(S=2)
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.87	0.0061	30.00	1.0000	Pass
2440	7.43	0.0055	30.00	1.0000	Pass
2480	6.23	0.0042	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

Test Mode	TX Mode_125kbps(S=8)
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	6.34	0.0043	30.00	1.0000	Pass
2440	5.86	0.0039	30.00	1.0000	Pass
2480	4.61	0.0029	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

## APPENDIX G - CONDUCTED SPURIOUS EMISSION

Test Mode TX Mode\_1Mbps

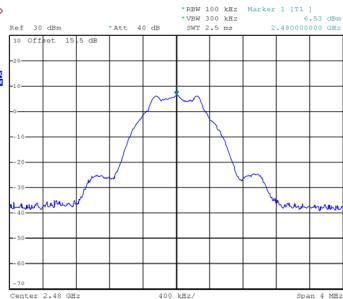
### Reference Level-CH00



### Reference Level-CH19



### Reference Level-CH39

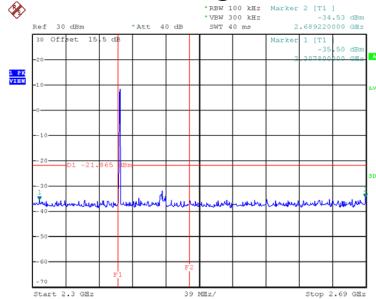


Date: 19.MAY.2025 10:40:22

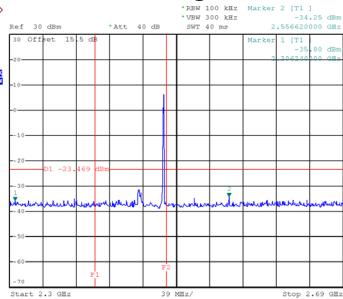
Date: 19.MAY.2025 10:41:59

Date: 19.MAY.2025 10:43:31

### Bandedge-CH00



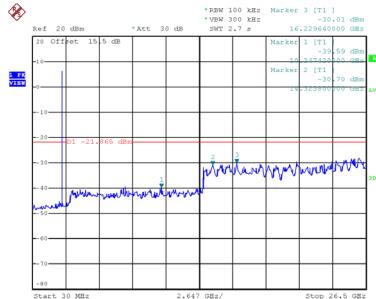
### Bandedge-CH39



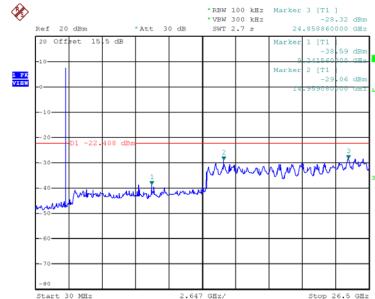
Date: 19.MAY.2025 10:40:33

Date: 19.MAY.2025 10:43:42

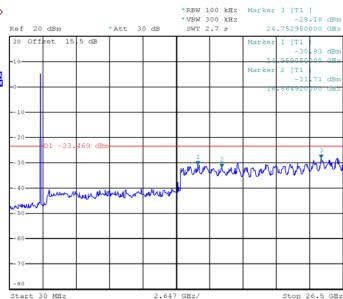
### Harmonic-CH00



### Harmonic-CH19



### Harmonic-CH39



Date: 20.MAY.2025 16:04:34

Date: 19.MAY.2025 10:42:21

Date: 19.MAY.2025 10:43:53

Test Mode TX Mode\_2Mbps

### Reference Level-CH00



### Reference Level-CH19



### Reference Level-CH39

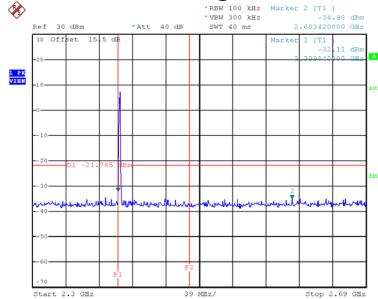


Date: 19.MAY.2025 10:57:19

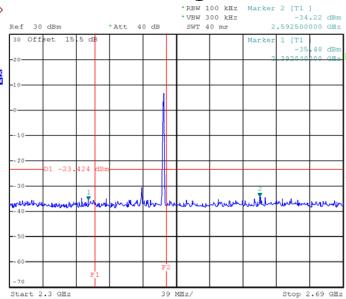
Date: 19.MAY.2025 10:59:51

Date: 19.MAY.2025 11:01:42

### Bandedge-CH00



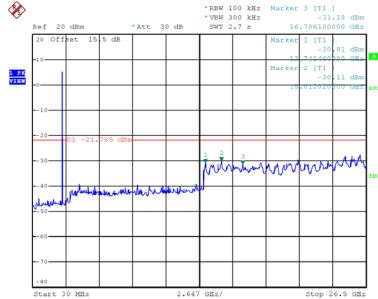
### Bandedge-CH39



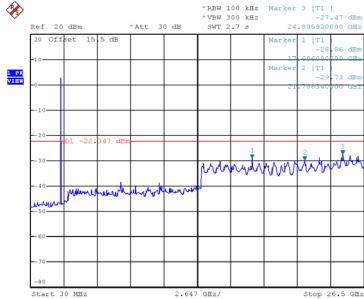
Date: 19.MAY.2025 10:57:30

Date: 19.MAY.2025 11:01:53

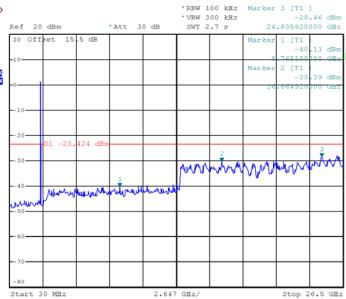
### Harmonic-CH00



### Harmonic-CH19



### Harmonic-CH39



Date: 19.MAY.2025 10:57:41

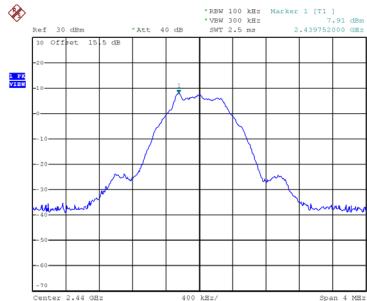
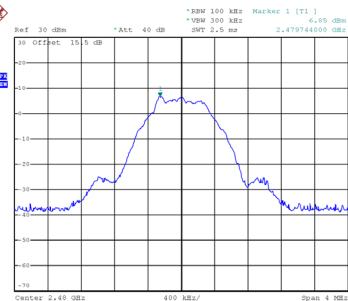
Date: 19.MAY.2025 11:05:19

Date: 19.MAY.2025 11:02:04

Test Mode

TX Mode\_500kbps(S=2)

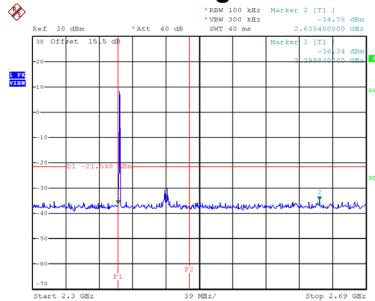
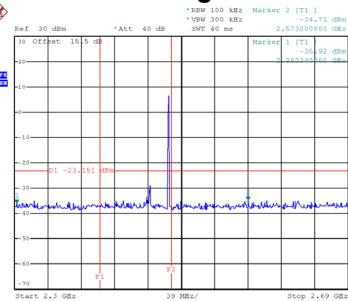
**Reference Level-CH00**

**Reference Level-CH19**

**Reference Level-CH39**


Date: 19.MAY.2025 11:09:28

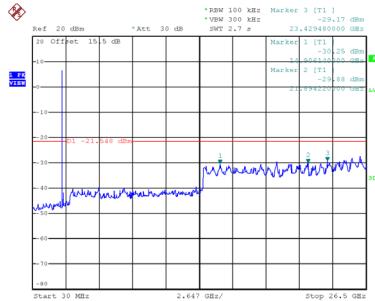
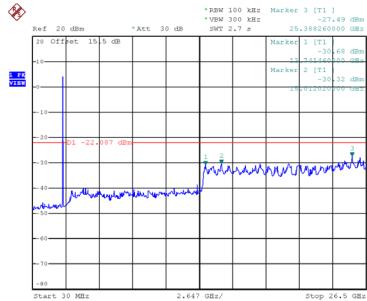
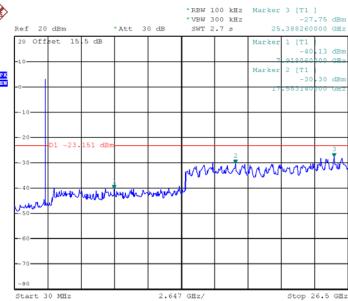
Date: 19.MAY.2025 11:11:02

Date: 19.MAY.2025 11:12:40

**Bandedge-CH00**

**Bandedge-CH39**


Date: 19.MAY.2025 11:09:39

Date: 19.MAY.2025 11:12:51

**Harmonic-CH00**

**Harmonic-CH19**

**Harmonic-CH39**


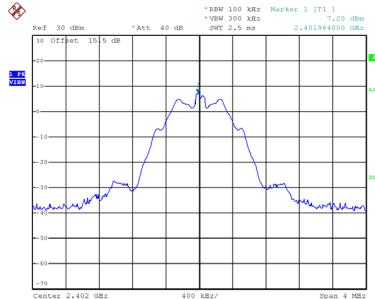
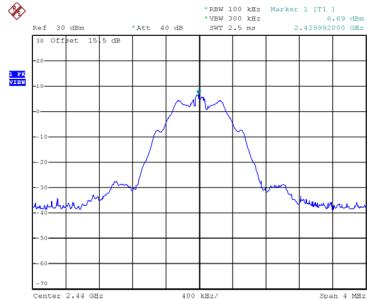
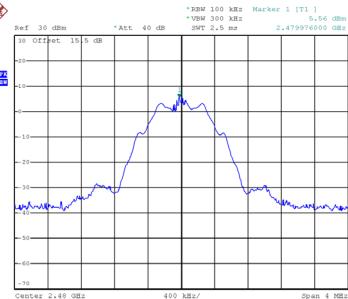
Date: 19.MAY.2025 11:09:50

Date: 19.MAY.2025 11:11:25

Date: 20.MAY.2025 16:05:56

Test Mode

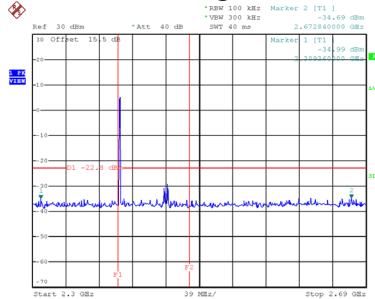
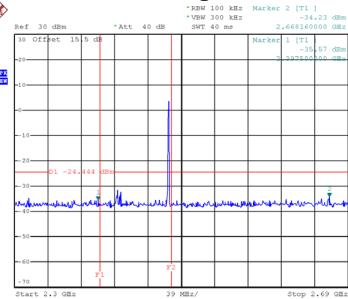
TX Mode\_125kbps(S=8)

**Reference Level-CH00**

**Reference Level-CH19**

**Reference Level-CH39**


Date: 19.MAY.2025 11:17:24

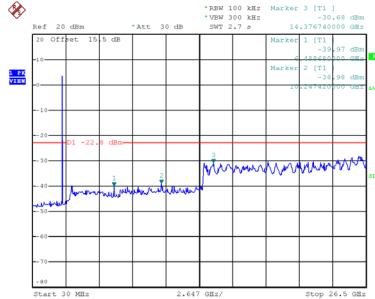
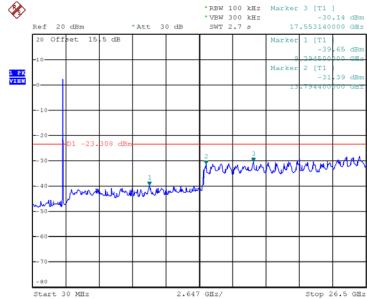
Date: 19.MAY.2025 11:19:25

Date: 19.MAY.2025 11:20:55

**Bandedge-CH00**

**Bandedge-CH39**


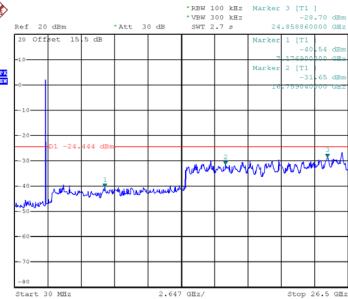
Date: 19.MAY.2025 11:17:36

Date: 19.MAY.2025 11:21:06

**Harmonic-CH00**

**Harmonic-CH19**


Date: 19.MAY.2025 11:17:47

Date: 19.MAY.2025 11:19:48

**Harmonic-CH39**


Date: 19.MAY.2025 11:21:17

## **APPENDIX H - POWER SPECTRAL DENSITY**