



FCC Radio Test Report

FCC ID: ACLAPCW91

This report concerns: Original Grant

Project No.	: 2410H001
Equipment	: Microwave Oven
Brand Name	: Panasonic
Test Model	: NN-CV88QS
Series Model	: NN-CV87QS
Applicant	: Panasonic Corporation of North America
Address	: Two Riverfront Plaza, Newark New Jersey USA
Manufacturer	: Panasonic Kitchen Appliances Technology(Jiaxing) Co.,Ltd
Address	: No.369 Chenggong Road, Economic and Technological Development Zone, Jiaxing, Zhejiang Province, China
Factory	: Panasonic Kitchen Appliances Technology(Jiaxing) Co.,Ltd
Address	: No.369 Chenggong Road, Economic and Technological Development Zone, Jiaxing, Zhejiang Province, China
Date of Receipt	: Oct. 08, 2024
Date of Test	: Oct. 08, 2024~Nov. 01, 2024
Issued Date	: Nov. 19, 2024
Report Version	: R00
Test Sample	: Engineering Sample No.: SH2024101812
Standard(s)	: FCC CFR Title 47, Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013

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

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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-1-2410H001	R00	Original Report.	Nov. 19, 2024	Valid

1. 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 Emissions	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 in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Registration Number for FCC: 964234

BTL's Designation Number for FCC: CN1374

1.2 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% confidence level (based on a coverage factor ($k=2$))

The BTL measurement uncertainty as below table:

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB02	CISPR	9 KHz~30 MHz	-	2.72
		30 MHz~200 MHz	V	4.4
		30 MHz~200 MHz	H	3.16
		200 MHz~1,000 MHz	V	4.6
		200 MHz~1,000 MHz	H	4.2
		1GHz ~ 6GHz	-	4.56
		6GHz ~ 18GHz	-	5.14
		18 ~ 26.5 GHz	-	3.36

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24°C	49%	AC 120V/60Hz	Landon Yang
Radiated Emissions-9kHz to 30 MHz	22.5°C	47%	AC 120V/60Hz	Yahya Fang
Radiated Emissions-30MHz to 1000MHz	22.5°C	47%	AC 120V/60Hz	Yahya Fang
Radiated Emissions-Above 1000MHz	22.5°C~22.6°C	45%~47%	AC 120V/60Hz	Yahya Fang
Bandwidth	23°C ~24°C	41%~43%	DC 3.3V	Thacker Tang
Maximum Output Power	23°C ~24°C	41%~43%	DC 3.3V	Thacker Tang
Conducted Spurious Emissions	23°C ~24°C	41%~43%	DC 3.3V	Thacker Tang
Power Spectral Density	23°C ~24°C	41%~43%	DC 3.3V	Thacker Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Microwave Oven
Brand Name	Panasonic
Test Model	NN-CV88QS
Series Model	NN-CV87QS
Model Difference(s)	Only the accessories are different
Software Version	N/A
Hardware Version	N/A
Power Source	AC&DC Mains.
Power Rating	1110W (Microwave) / 1350W (Broil/HEATER)
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
Maximum Output Power	IEEE 802.11b: 18.89 dBm (0.0774 W)

Note:

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

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)							
CH03 - CH09 for IEEE 802.11n(HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	3.42

Note:

- 1) The antenna gain is provided by the manufacturer.

2.2 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 B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

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 1	TX B Mode Channel 01

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX B Mode Channel 01 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 18GHz~40GHz have been pre-tested and in this report only recorded the worst case.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	EspRFTTestTool_v3.6_Manual		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	0	0	0
IEEE 802.11g	0	0	0
IEEE 802.11n(HT20)	0	0	0
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	0	0	0

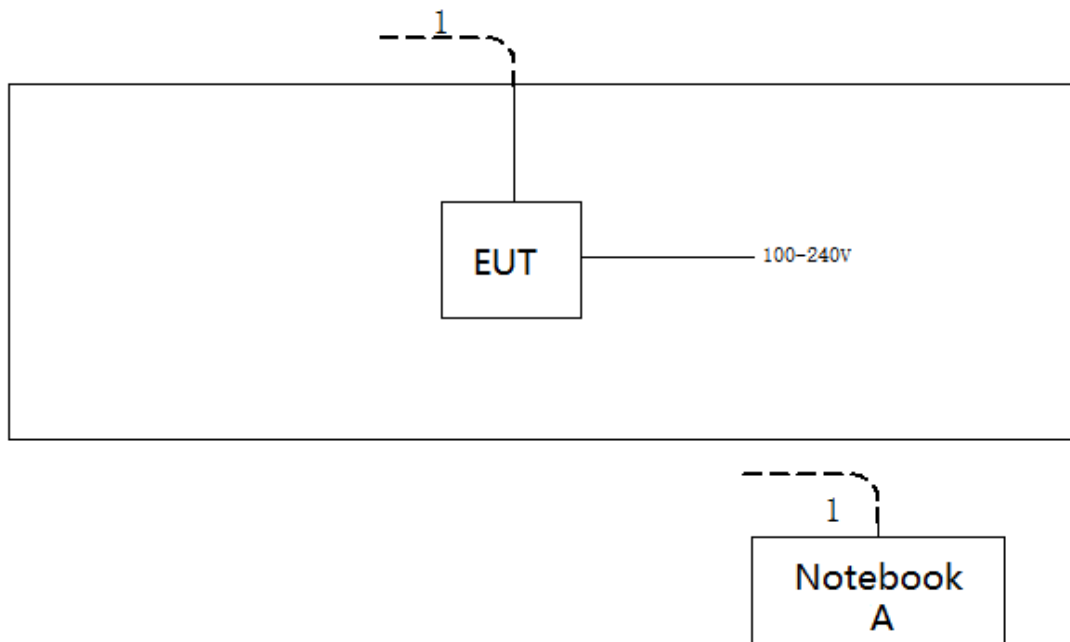
2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	0.986	1	0.986	1.000	98.60%	0.00
IEEE 802.11g	1.000	1	1.000	1.000	100.00%	0.00
IEEE 802.11n (HT20)	0.974	1	0.974	1.000	97.40%	0.11
IEEE 802.11n (HT40)	0.992	1	0.992	1.000	99.20%	0.00

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ 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.

3.2 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.

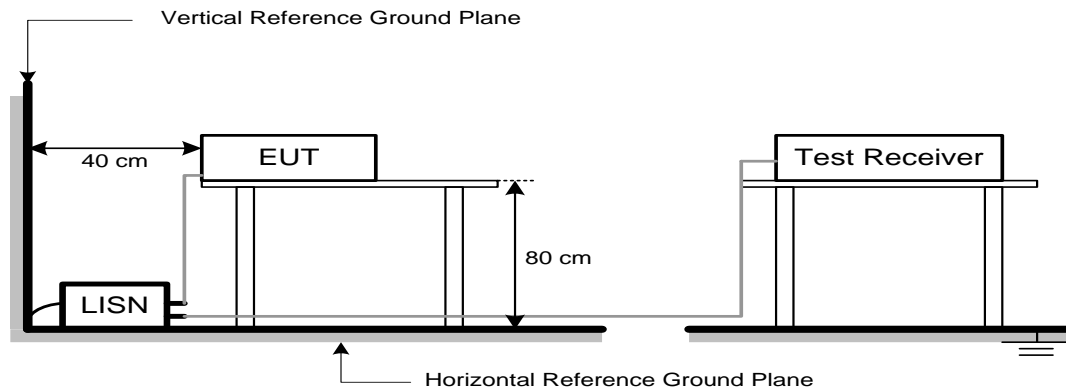
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 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)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

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).

4.2 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 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 1 GHz)
- 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

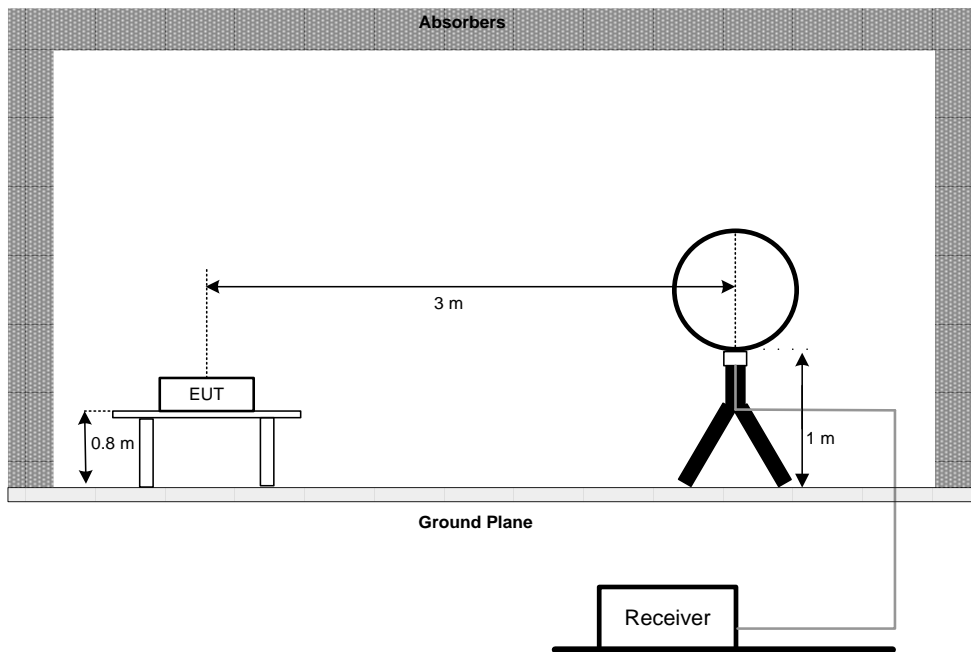
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

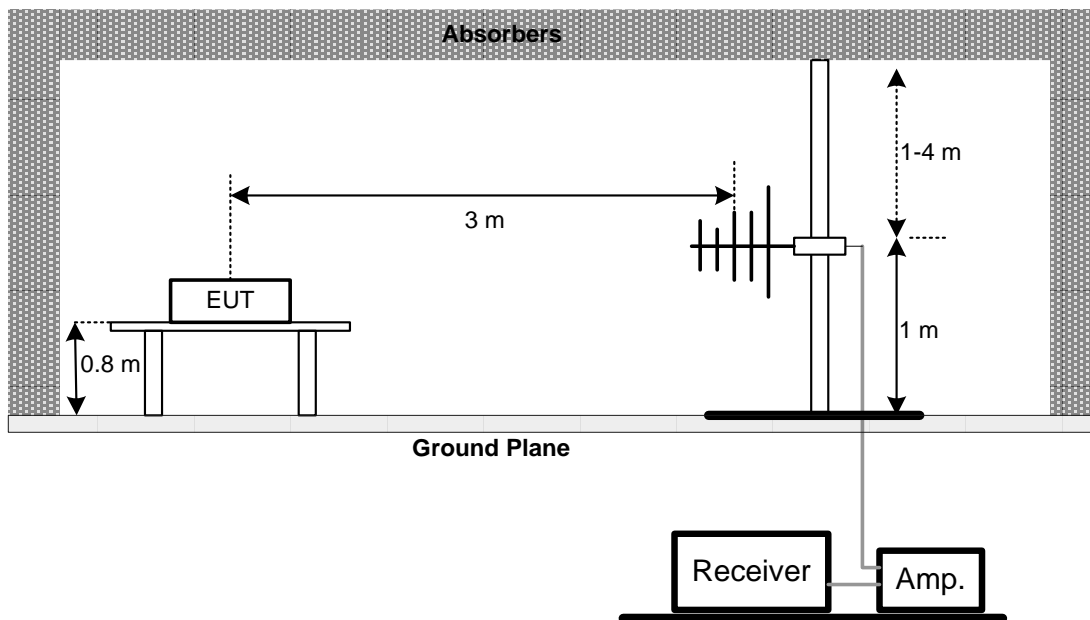
No deviation.

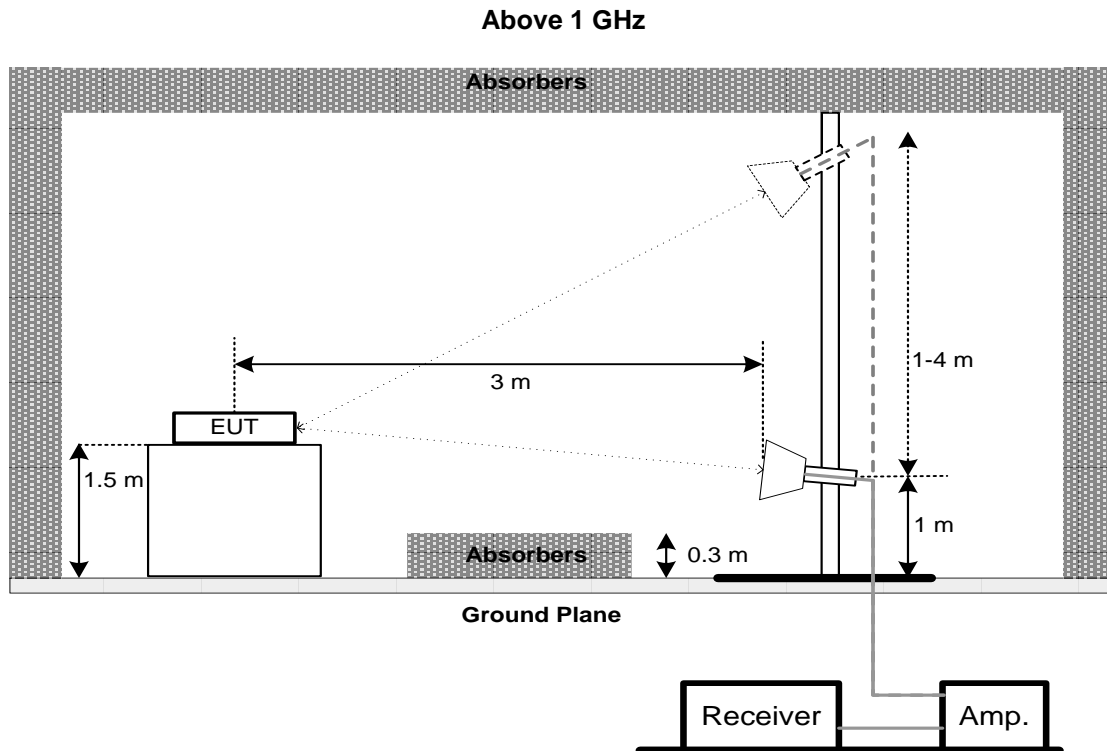
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 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.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - 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.

5. BANDWIDTH

5.1 LIMIT

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

5.2 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

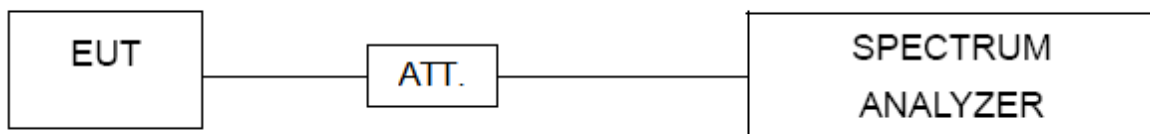
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

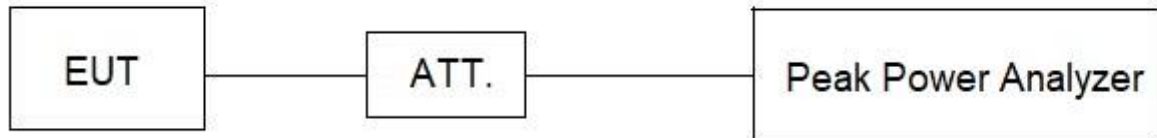
6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 (for peak power) of ANSI C63.10-2013.

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 F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

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
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
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 G.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

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
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 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 H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101340	Jul. 12, 2025
2	Test Cable	emci	EMCRG400-BM-N M-10000	N/A	Mar. 09, 2025
3	EMI Test Receiver	R&S	ESR3	100082	Dec. 22, 2024
4	50Ω Terminator	SHX	TF2-1G-A	17051601	Feb. 2, 2025
5	50Ω coaxial switch	Anritsu	MP59B	6201750902	Feb. 2, 2025
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 12, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Feb. 2, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A
4	Pre-Amplifier	emci	EMC9135	980401	Feb. 2, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	emci	VULB 9168	1467	Mar. 12, 2025
2	Pre-Amplifier	emci	EMC9135	980401	Feb. 2, 2025
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Feb. 2, 2025
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	May. 20, 2025
5	Test Cable	emci	RWP50-4.6A-SMS M-1M	20200928 002	May. 20, 2025
6	Test Cable	emci	EMC104-SM-SM-2 500	170618	May. 20, 2025
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A

Radiated Emissions - 1 GHz to 18 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	BBHA 9120D	9120D-1817	Mar.12, 2025
2	Pre-Amplifier	emci	EMC051845SE	980725	Jul. 12, 2025
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Feb. 2, 2025
4	Test Cable	emci	EMC104-SM-SM-7000	181020	May. 20, 2025
5	Test Cable	emci	RWP50-4.6A-SMS M-1M	20200928 002	May. 20, 2025
6	Test Cable	emci	EMC104-SM-SM-2500	170618	May. 20, 2025
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A

Radiated Emissions - 18 GHz to 40 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	BBHA9170	9170-651	Mar. 15, 2025
2	Pre-Amplifier	EMC INSTRUMENT	EMC184045B	980265	Feb. 2, 2025
3	Test Cable	emci	EMC-104HS-SM-S M-1000	240625	Aug. 5, 2025
4	Test Cable	emci	EMC104HS-SM-S M-5000	240627	Aug. 5, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A

Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020B	MY57120173	Feb. 2, 2025

Maximum Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020B	MY57120173	Feb. 2, 2025

Antenna Conducted Spurious Emissions

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020B	MY57120173	Feb. 2, 2025

Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020B	MY57120173	Feb. 2, 2025

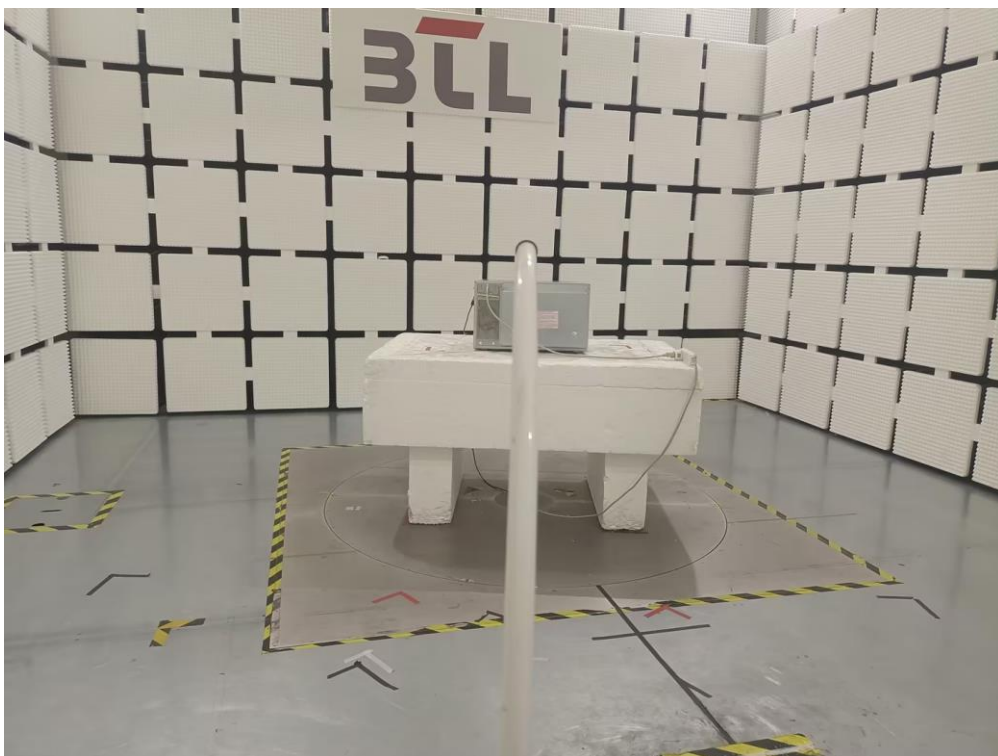
Remark: "N/A" denotes no model name, serial no. or calibration specified.

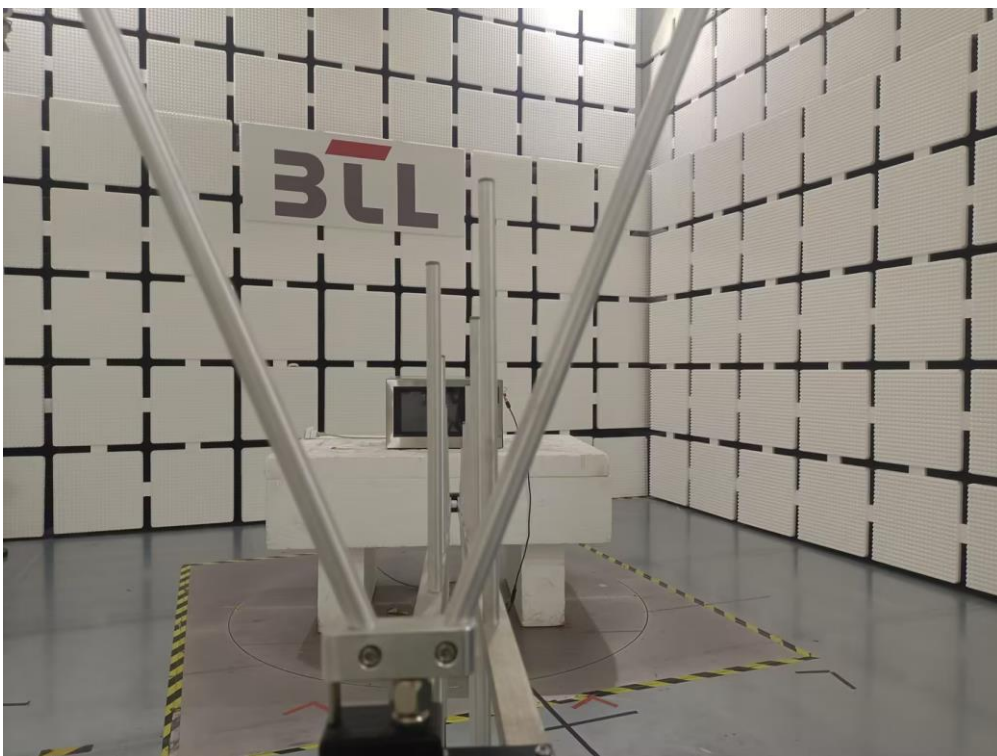
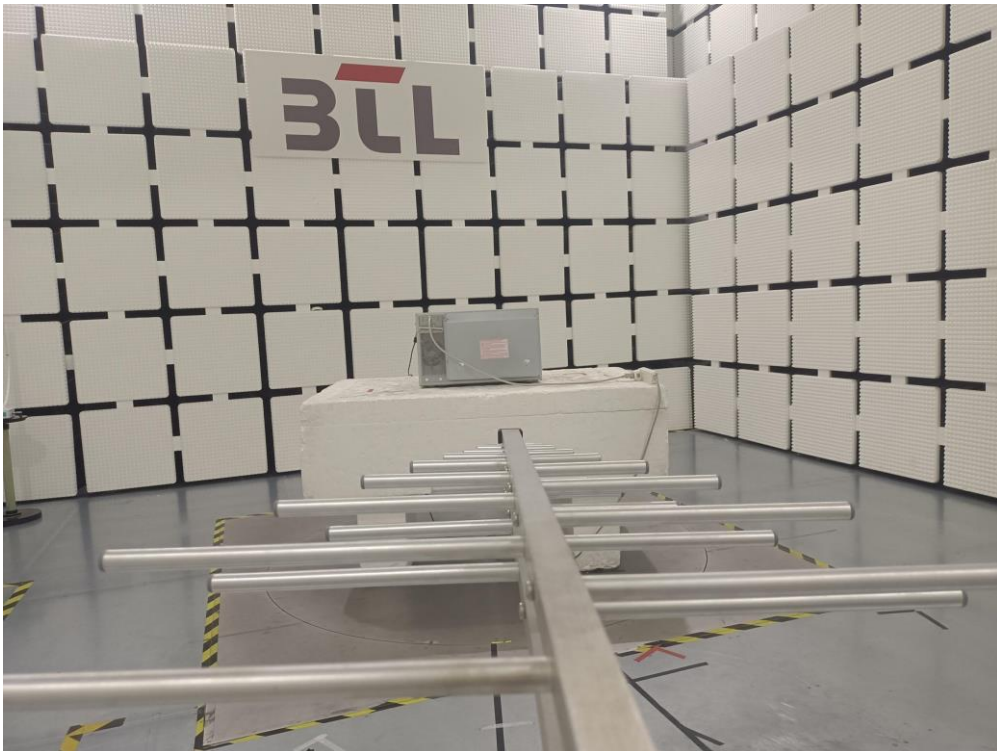
All calibration period of equipment list is one year.

10. 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 1 GHz**

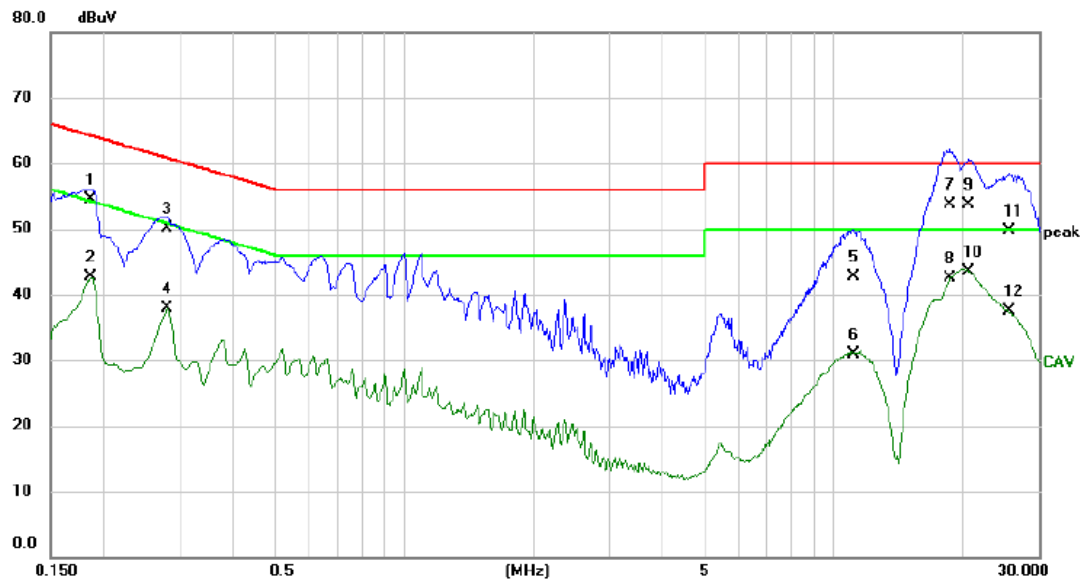
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 01	Phase	Line
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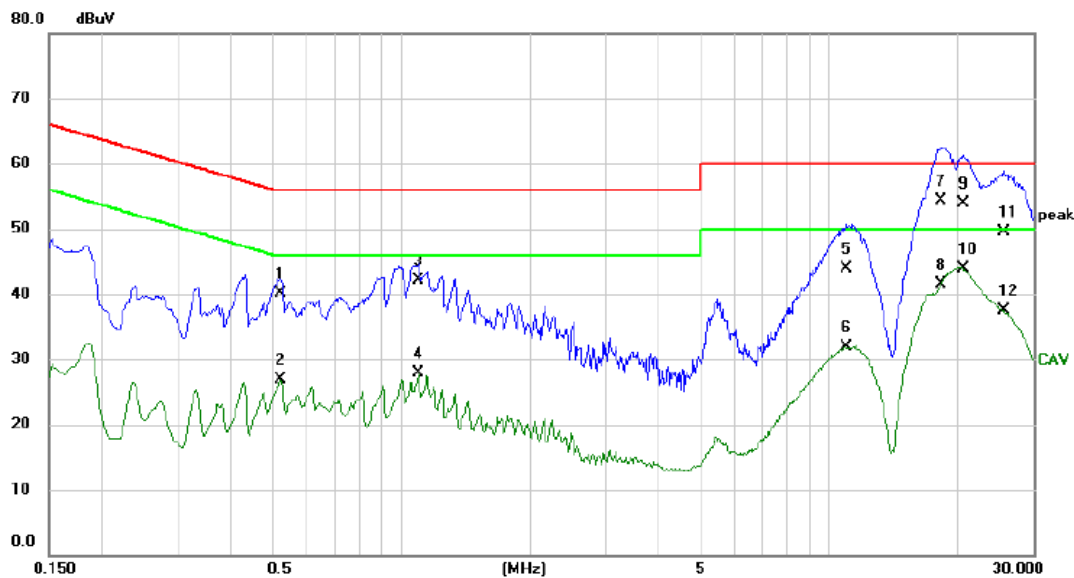


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.1864	44.70	9.80	54.50	64.20	-9.70	QP	
2		0.1864	32.90	9.80	42.70	54.20	-11.50	AVG	
3		0.2805	40.20	9.83	50.03	60.80	-10.77	QP	
4		0.2805	28.00	9.83	37.83	50.80	-12.97	AVG	
5		11.1458	32.40	10.28	42.68	60.00	-17.32	QP	
6		11.1458	20.70	10.28	30.98	50.00	-19.02	AVG	
7	*	18.6833	43.10	10.63	53.73	60.00	-6.27	QP	
8		18.6833	31.80	10.63	42.43	50.00	-7.57	AVG	
9		20.6138	42.90	10.72	53.62	60.00	-6.38	QP	
10		20.6138	32.80	10.72	43.52	50.00	-6.48	AVG	
11		25.6268	38.80	10.84	49.64	60.00	-10.36	QP	
12		25.6268	26.60	10.84	37.44	50.00	-12.56	AVG	

REMARKS:

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

Test Mode	TX B Mode Channel 01	Phase	Neutral
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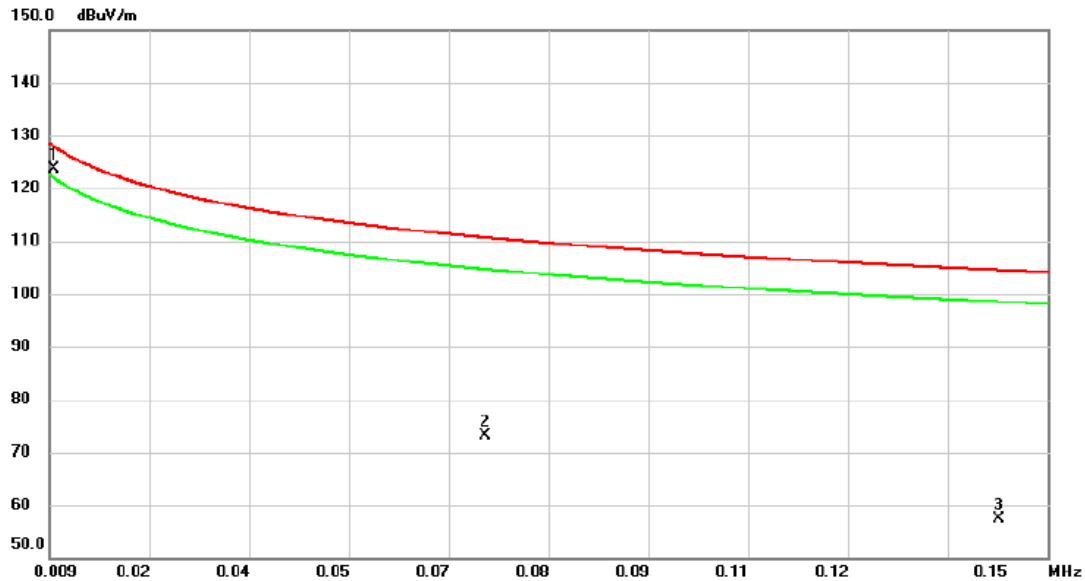
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1		0.5235	30.30	9.83	40.13	56.00	-15.87	QP	
2		0.5235	17.00	9.83	26.83	46.00	-19.17	AVG	
3		1.0972	32.20	9.86	42.06	56.00	-13.94	QP	
4		1.0972	18.10	9.86	27.96	46.00	-18.04	AVG	
5		10.9928	33.50	10.32	43.82	60.00	-16.18	QP	
6		10.9928	21.60	10.32	31.92	50.00	-18.08	AVG	
7	*	18.2220	43.70	10.70	54.40	60.00	-5.60	QP	
8		18.2220	30.90	10.70	41.60	50.00	-8.40	AVG	
9		20.6273	43.00	10.84	53.84	60.00	-6.16	QP	
10		20.6273	33.10	10.84	43.94	50.00	-6.06	AVG	
11		25.6268	38.50	10.97	49.47	60.00	-10.53	QP	
12		25.6268	26.50	10.97	37.47	50.00	-12.53	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 B Mode Channel 01	Polarization	Ant 0°
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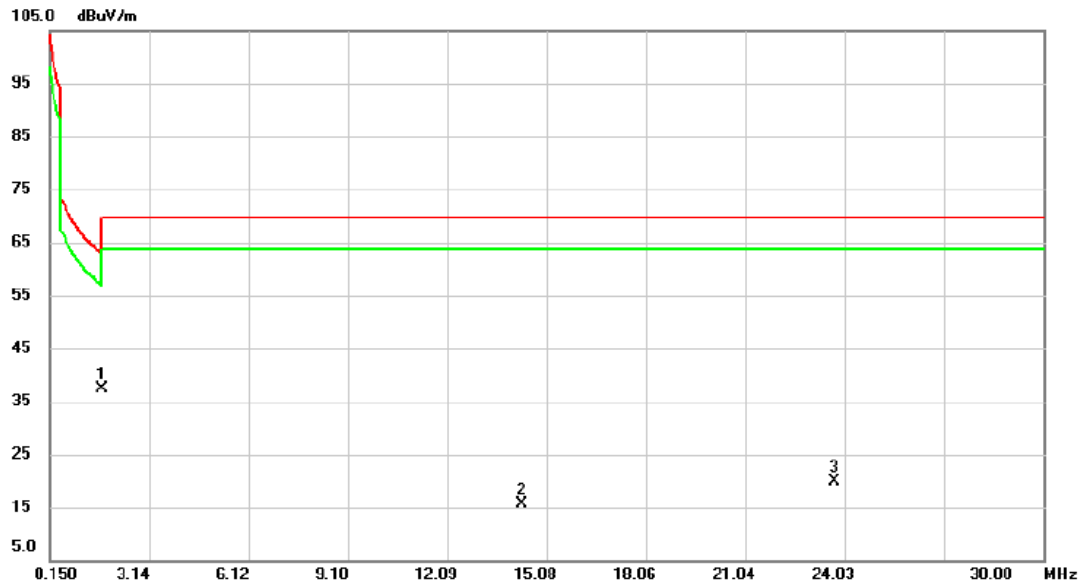


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.0097	55.04	68.54	123.58	127.87	-4.29	peak
2		0.0706	37.18	36.07	73.25	110.63	-37.38	peak
3		0.1432	31.62	25.66	57.28	104.49	-47.21	peak

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

Test Mode	TX B Mode Channel 01	Polarization	Ant 0°
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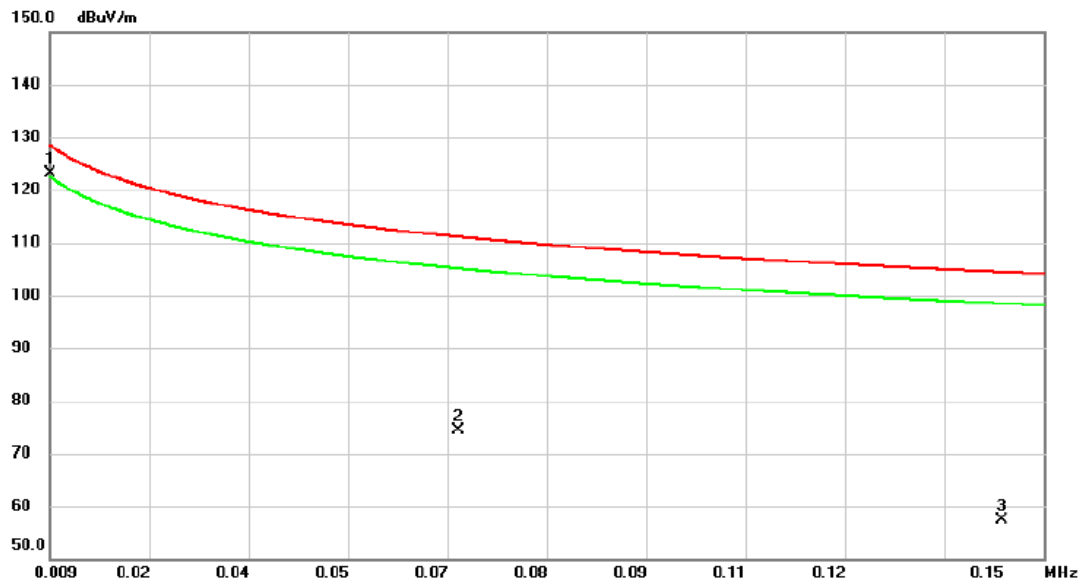


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	1.7022	35.54	1.94	37.48	62.98	-25.50	peak
2		14.3287	17.88	-2.21	15.67	69.54	-53.87	peak
3		23.7314	24.87	-5.02	19.85	69.54	-49.69	peak

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

Test Mode	TX B Mode Channel 01	Polarization	Ant 90°
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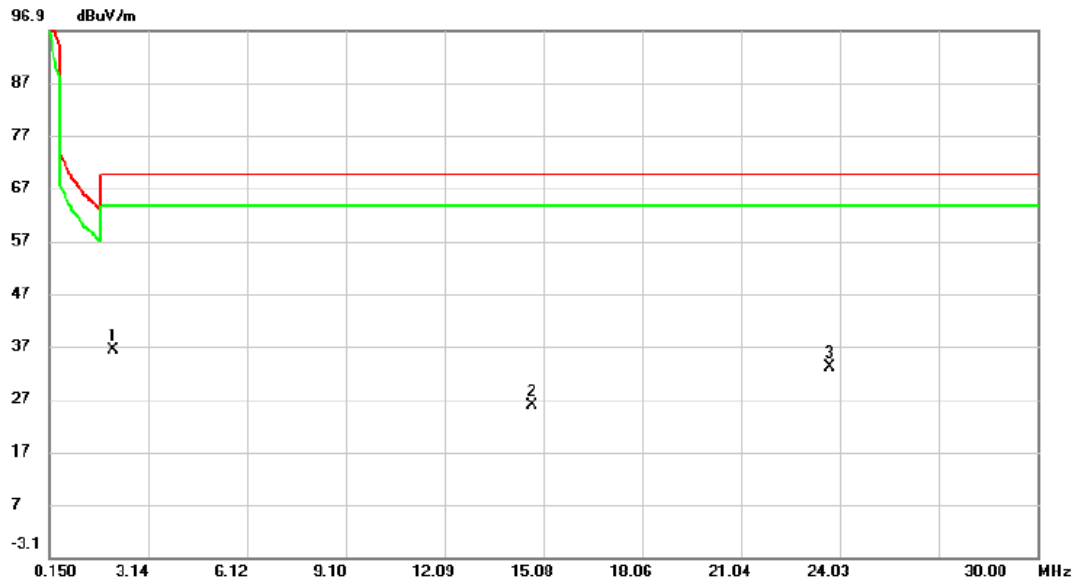


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.0091	53.32	69.78	123.10	128.42	-5.32	peak
2		0.0670	37.26	37.04	74.30	111.08	-36.78	peak
3		0.1440	31.67	25.59	57.26	104.44	-47.18	peak

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

Test Mode	TX B Mode Channel 01	Polarization	Ant 90°
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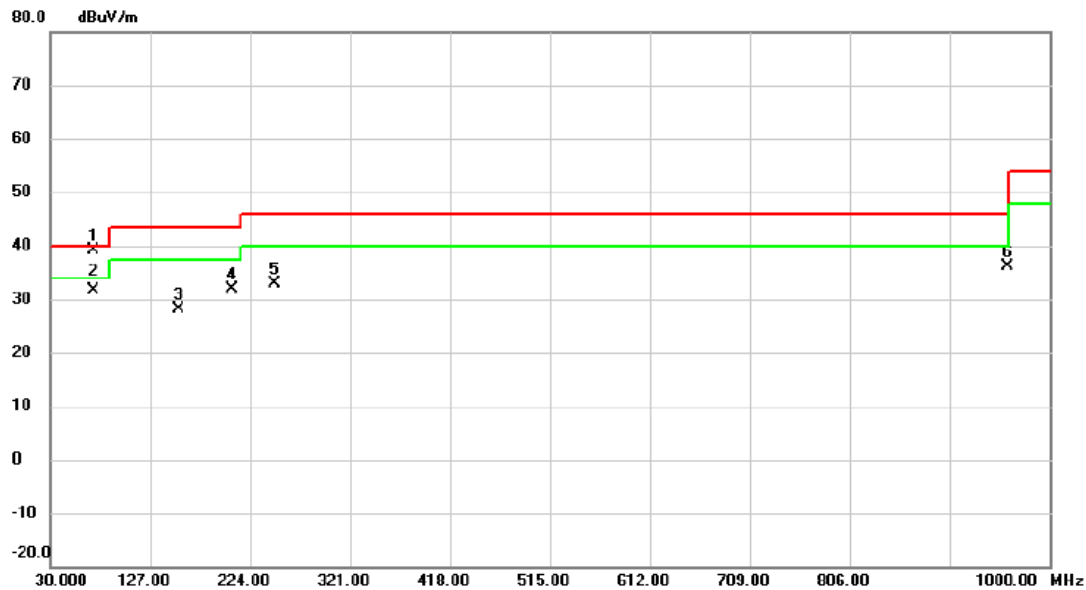
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	2.0903	35.19	1.09	36.28	69.54	-33.26	peak
2		14.7168	28.15	-2.31	25.84	69.54	-43.70	peak
3		23.7314	37.94	-5.02	32.92	69.54	-36.62	peak

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX B Mode Channel 01	Polarization	Vertical
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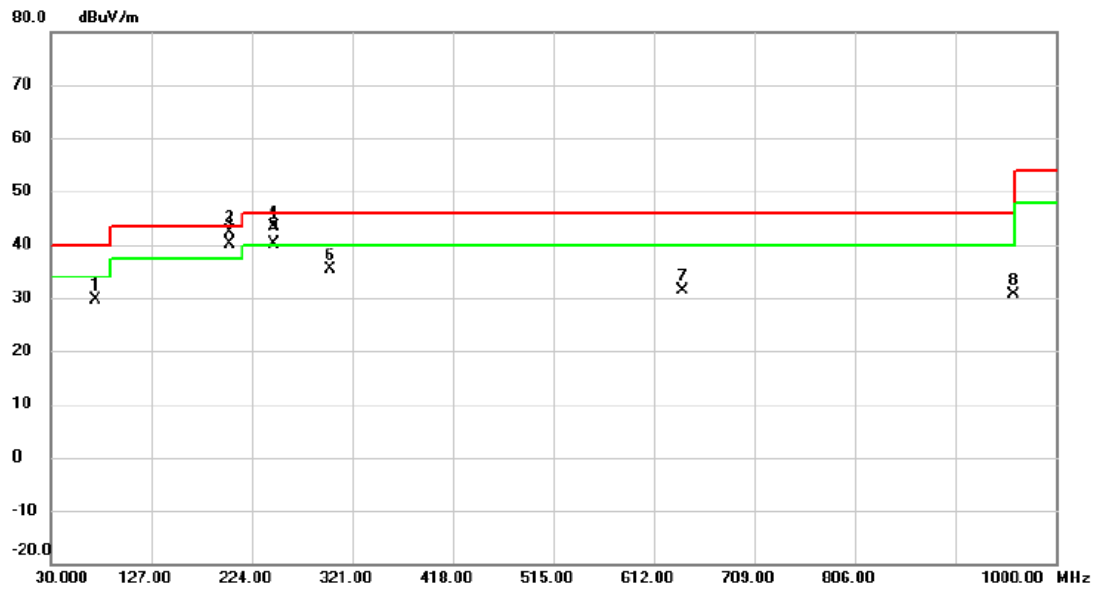


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over Limit dB	Detector	Comment
1	*	72.1950	58.32	-19.31	39.01	40.00		peak	
2		72.1950	51.06	-19.31	31.75	40.00	-8.25	QP	
3		154.1600	44.31	-16.15	28.16	43.50	-15.34	peak	
4		206.0550	50.98	-19.21	31.77	43.50	-11.73	peak	
5		247.2800	50.18	-17.20	32.98	46.00	-13.02	peak	
6		959.7450	39.95	-3.94	36.01	46.00	-9.99	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

Test Mode	TX B Mode Channel 01	Polarization	Horizontal
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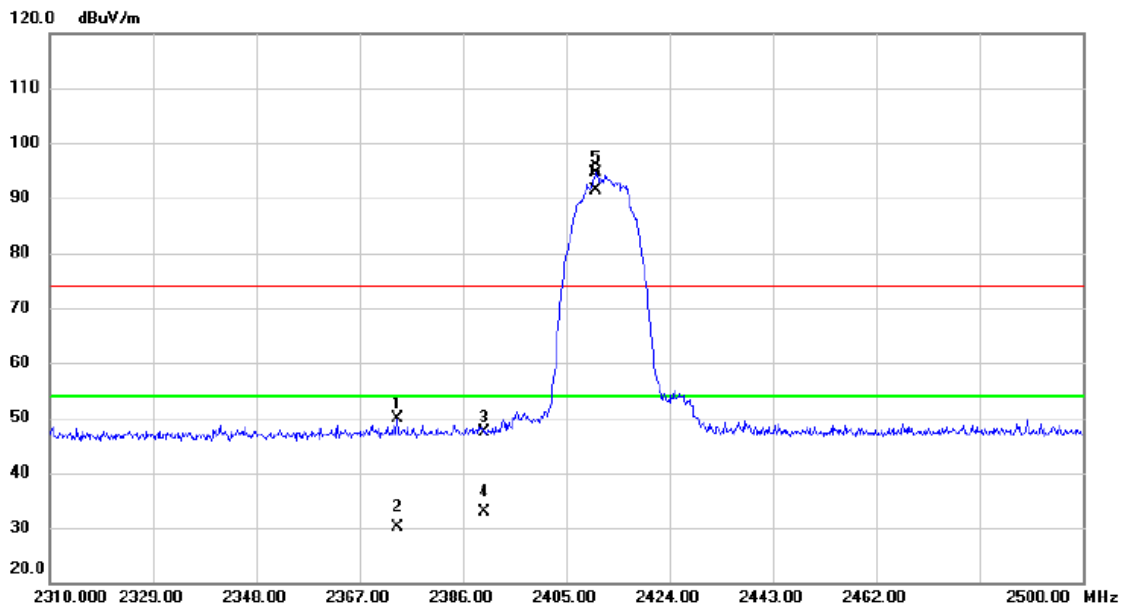
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over Limit dB	Detector	Comment
1		73.1650	49.11	-19.52	29.59	40.00	-10.41	peak	
2	*	202.1750	61.55	-19.14	42.41	43.50		peak	
3	!	202.1750	59.37	-19.14	40.23	43.50	-3.27	QP	
4	!	244.8550	60.54	-17.28	43.26	46.00		peak	
5	!	244.8550	57.53	-17.28	40.25	46.00	-5.75	QP	
6		300.1450	50.72	-15.36	35.36	46.00	-10.64	peak	
7		640.1300	39.37	-8.11	31.26	46.00	-14.74	peak	
8		959.7450	34.47	-3.94	30.53	46.00	-15.47	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The peak infinite value requires that the QP measurement is < the peak measurement, so the actual value is less than the listed value

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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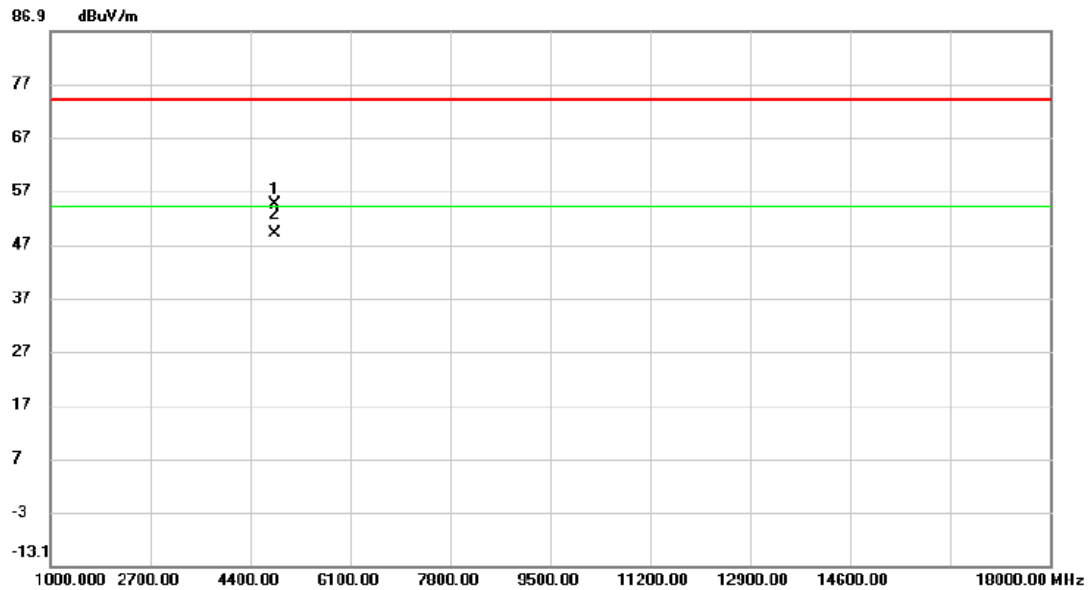


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
1		2374.030	17.64	32.31	49.95	74.00	-24.05	peak
2		2374.030	-2.25	32.31	30.06	54.00	-23.94	AVG
3		2390.000	15.05	32.37	47.42	74.00	-26.58	peak
4		2390.000	0.59	32.37	32.96	54.00	-21.04	AVG
5	X	2410.510	62.26	32.45	94.71	74.00	20.71	peak
6	*	2410.510	58.87	32.45	91.32	54.00	37.32	AVG

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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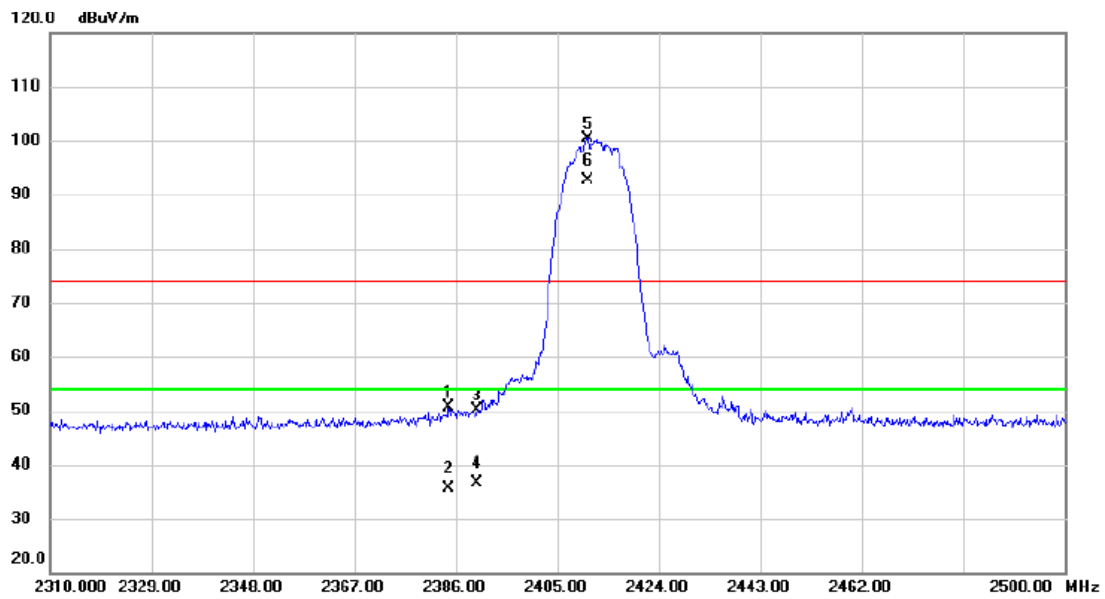


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector
1		4824.150	63.57	-8.98	54.59	74.00	-19.41	peak
2	*	4824.150	58.07	-8.98	49.09	54.00	-4.91	AVG

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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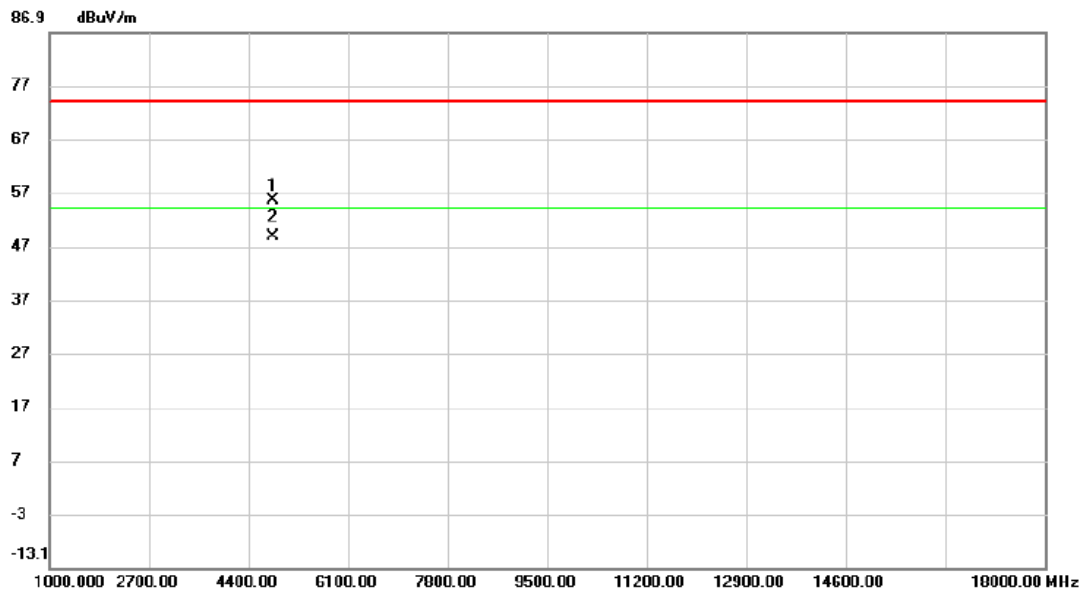


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
1		2384.670	18.31	32.35	50.66	74.00	-23.34	peak
2		2384.670	3.33	32.35	35.68	54.00	-18.32	AVG
3		2390.000	17.64	32.37	50.01	74.00	-23.99	peak
4		2390.000	4.21	32.37	36.58	54.00	-17.42	AVG
5	X	2410.605	67.95	32.45	100.40	74.00	26.40	peak
6	*	2410.605	60.12	32.45	92.57	54.00	38.57	AVG

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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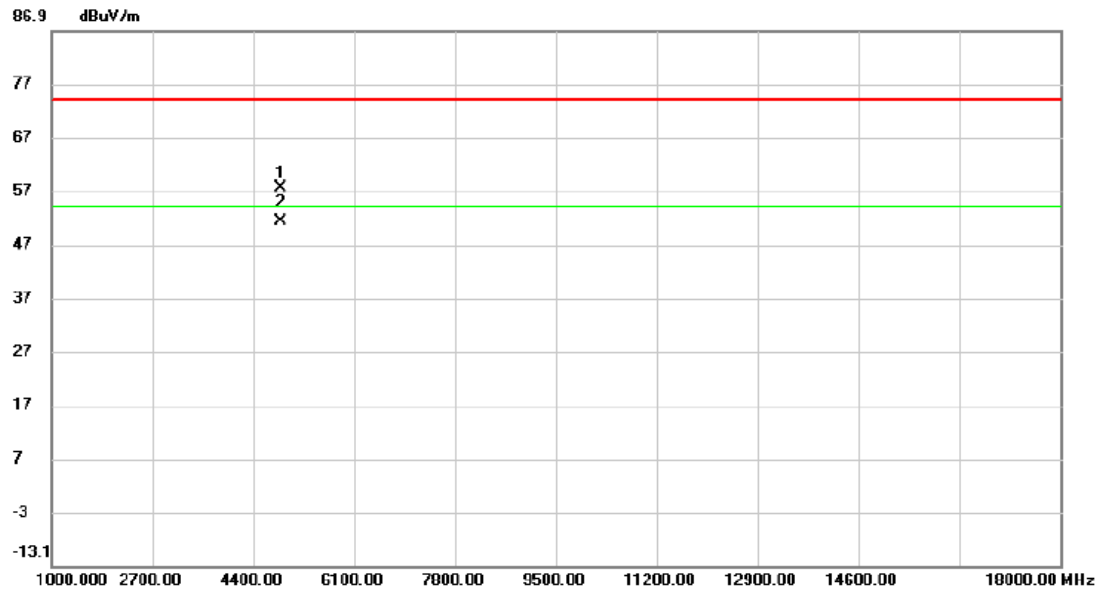


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over Limit dB	Detector	Comment
1		4824.150	64.47	-8.98	55.49	74.00	-18.51	peak	
2	*	4824.150	57.70	-8.98	48.72	54.00	-5.28	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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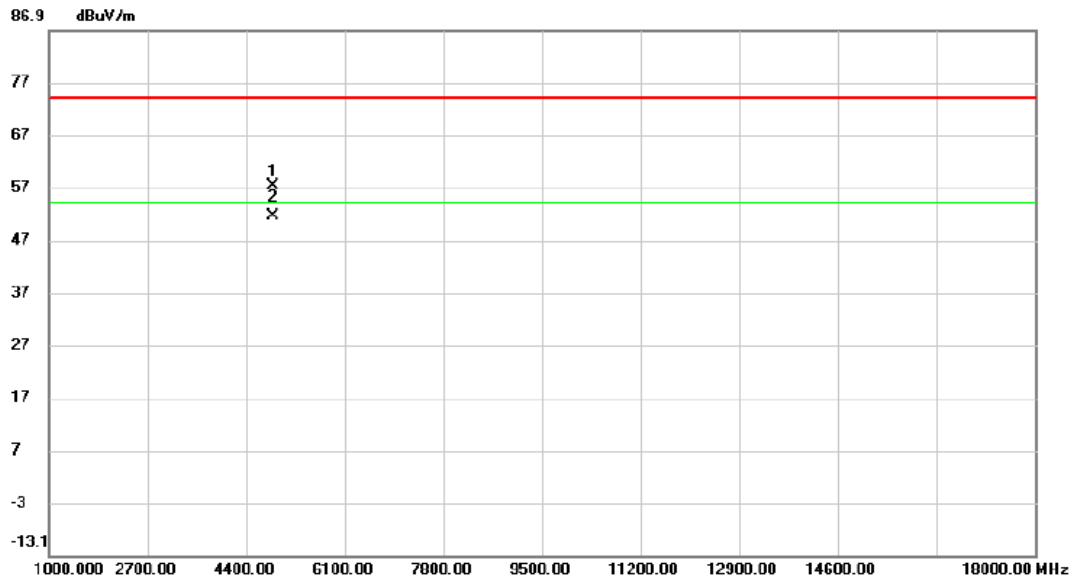


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over Limit dB	Detector	Comment
1		4874.300	66.23	-8.66	57.57	74.00	-16.43	peak	
2	*	4874.300	60.01	-8.66	51.35	54.00	-2.65	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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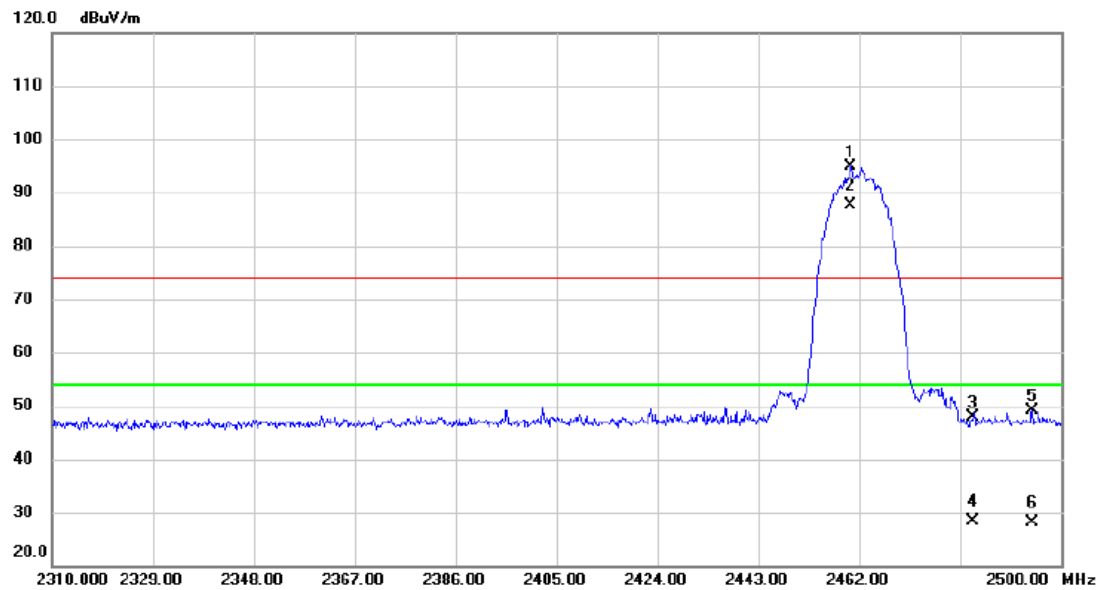


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit		
	MHz	dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.300	65.99	-8.66	57.33	74.00	-16.67	peak	
2 *	4874.300	60.21	-8.66	51.55	54.00	-2.45	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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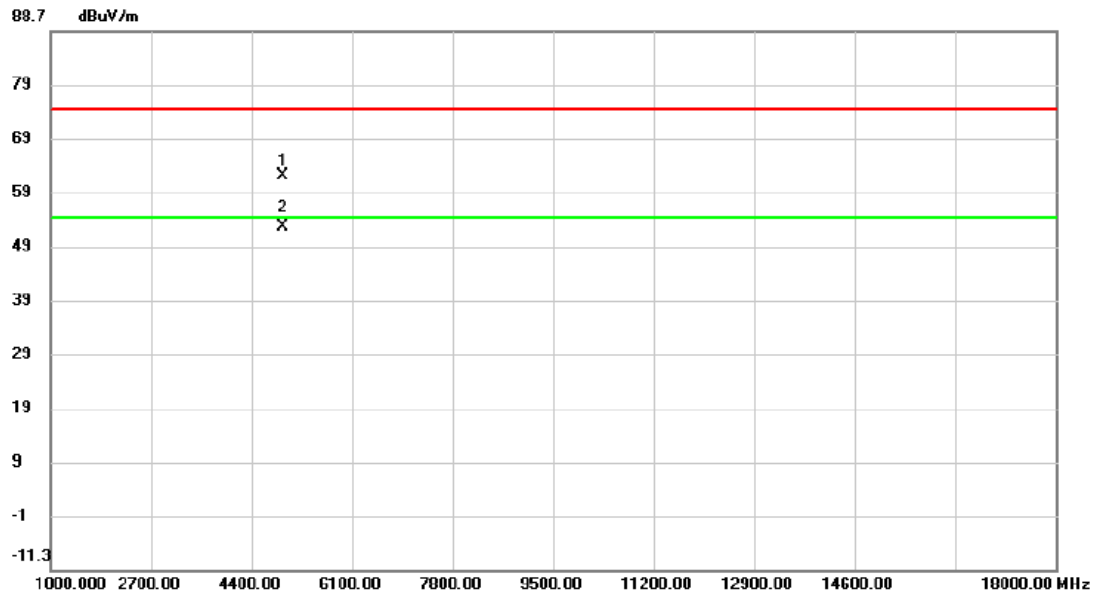


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
1	X	2460.385	62.27	32.66	94.93	74.00	20.93	peak
2	*	2460.385	54.96	32.66	87.62	54.00	33.62	AVG
3		2483.500	15.06	32.75	47.81	74.00	-26.19	peak
4		2483.500	-4.29	32.75	28.46	54.00	-25.54	AVG
5		2494.490	16.29	32.79	49.08	74.00	-24.92	peak
6		2494.490	-4.63	32.79	28.16	54.00	-25.84	AVG

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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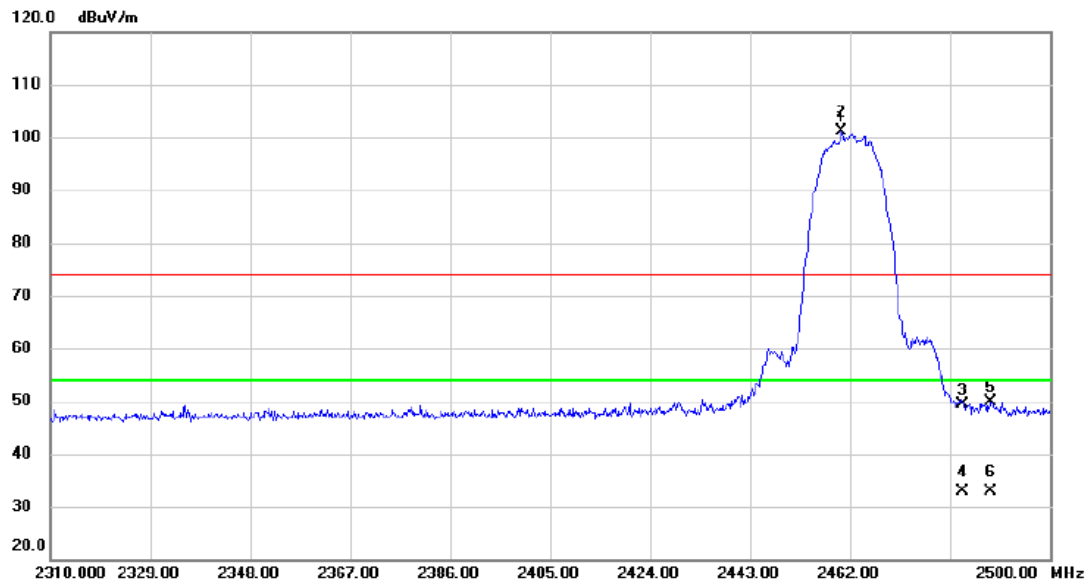


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4924.450	70.15	-8.34	61.81	74.00	-12.19	peak
2	*	4924.450	60.75	-8.34	52.41	54.00	-1.59	AVG

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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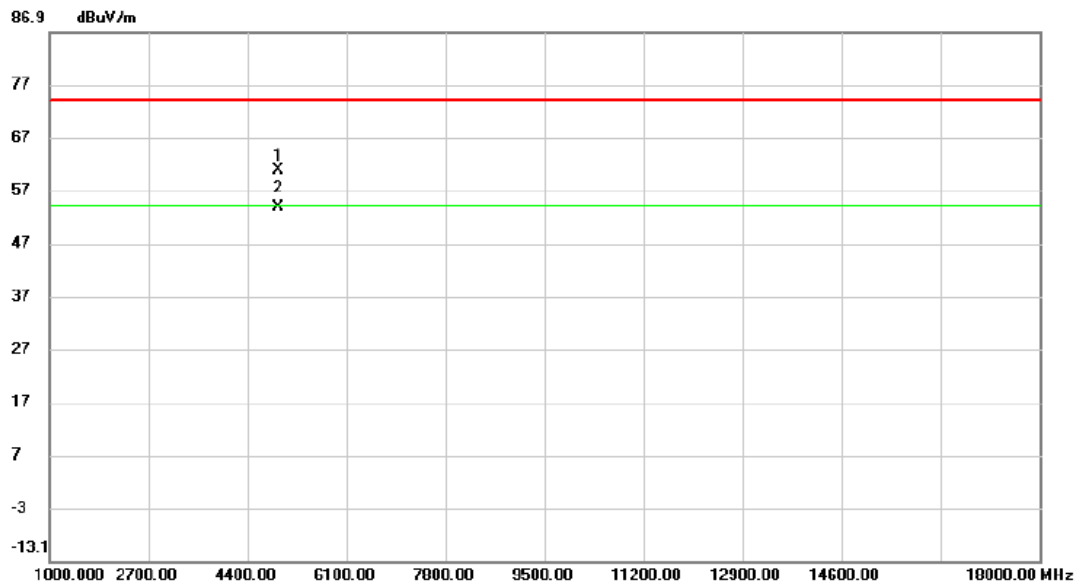


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
						dBuV/m	dB	Detector	Comment
1	X	2460.385	68.47	32.66	101.13	74.00	27.13	peak	
2	*	2460.385	68.47	32.66	101.13	54.00	47.13	AVG	
3		2483.500	16.68	32.75	49.43	74.00	-24.57	peak	
4		2483.500	0.21	32.75	32.96	54.00	-21.04	AVG	
5		2488.790	17.07	32.76	49.83	74.00	-24.17	peak	
6		2488.790	0.24	32.76	33.00	54.00	-21.00	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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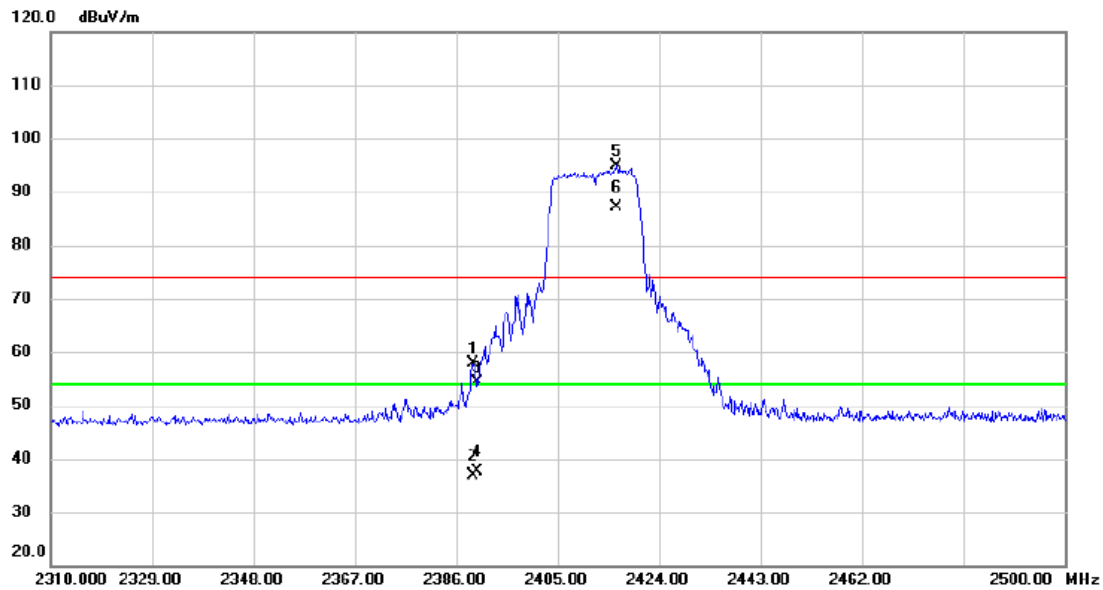


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4923.600	69.01	-8.34	60.67	74.00	-13.33	peak
2	*	4923.600	62.11	-8.34	53.77	54.00	-0.23	AVG

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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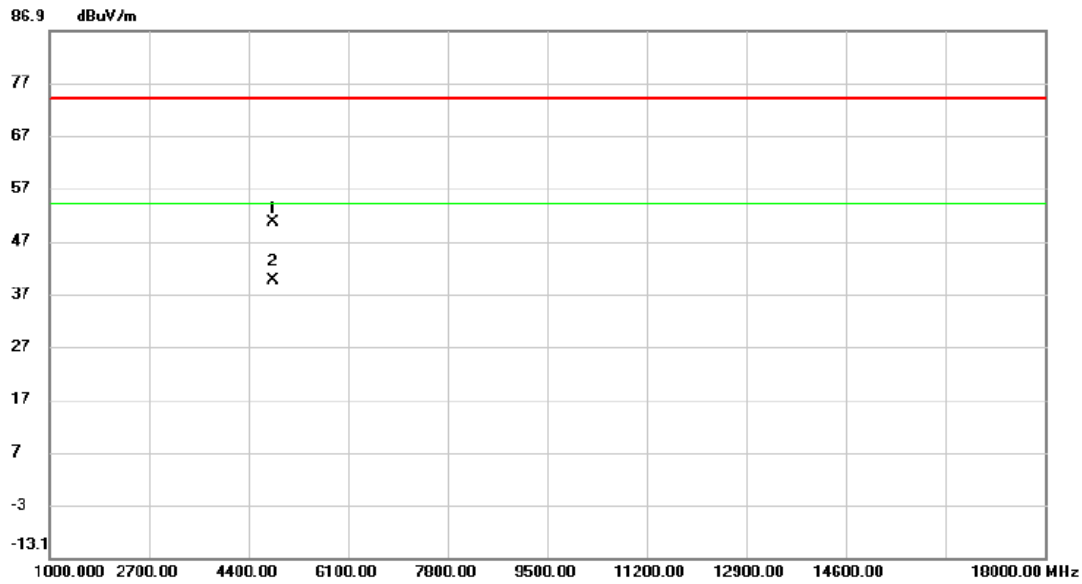


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
1		2389.230	25.46	32.37	57.83	74.00	-16.17	peak
2		2389.230	4.46	32.37	36.83	54.00	-17.17	AVG
3		2390.000	21.91	32.37	54.28	74.00	-19.72	peak
4		2390.000	5.29	32.37	37.66	54.00	-16.34	AVG
5	X	2416.020	62.42	32.48	94.90	74.00	20.90	peak
6	*	2416.020	54.53	32.48	87.01	54.00	33.01	AVG

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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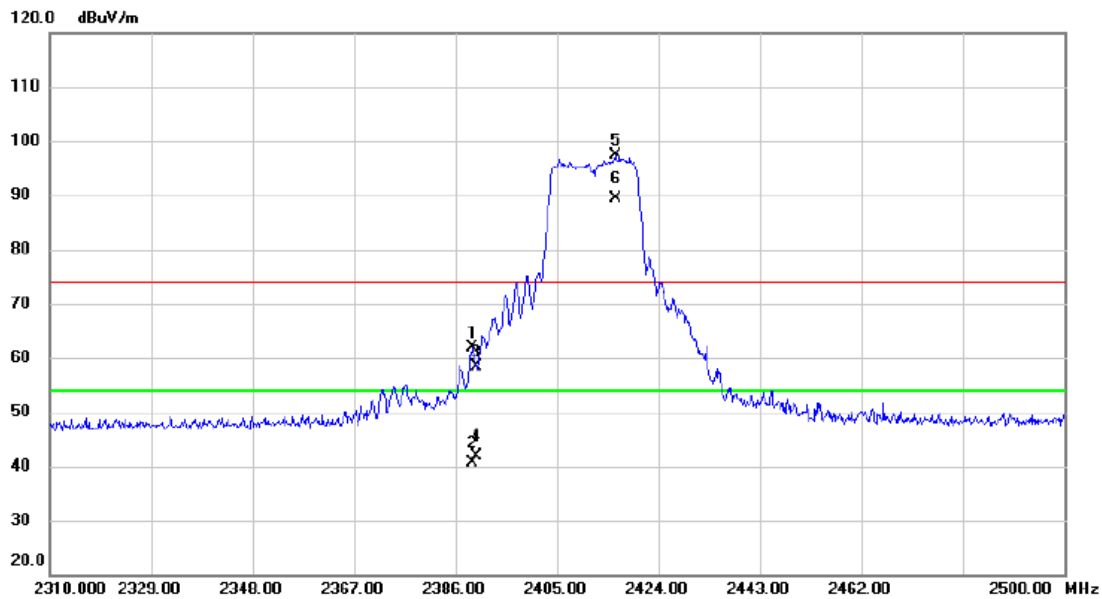


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4825.850	59.38	-8.97	50.41	74.00	-23.59	peak
2	*	4825.850	48.58	-8.97	39.61	54.00	-14.39	AVG

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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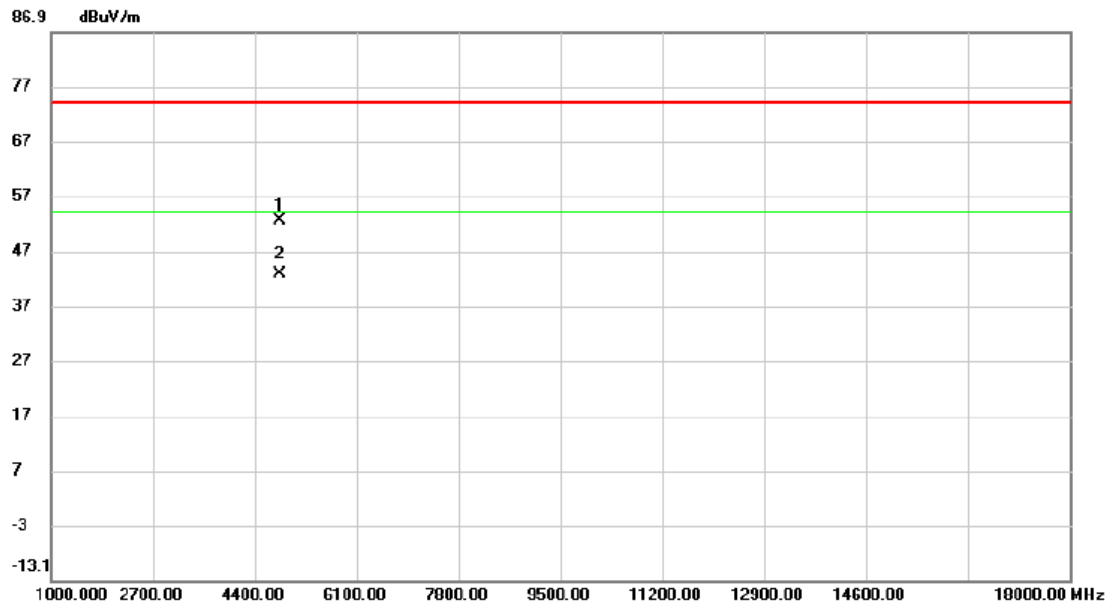


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
						dBuV/m	dB	Detector	Comment
1		2389.135	29.58	32.37	61.95	74.00	-12.05	peak	
2		2389.135	8.26	32.37	40.63	54.00	-13.37	AVG	
3		2390.000	26.00	32.37	58.37	74.00	-15.63	peak	
4		2390.000	9.61	32.37	41.98	54.00	-12.02	AVG	
5	X	2415.925	64.84	32.48	97.32	74.00	23.32	peak	
6	*	2415.925	56.90	32.48	89.38	54.00	35.38	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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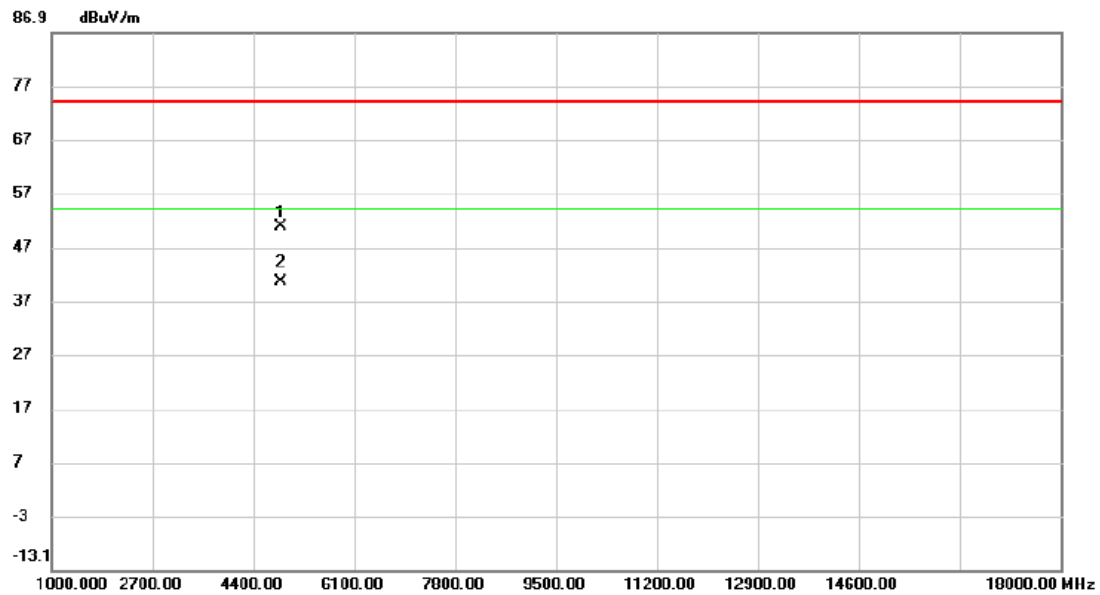


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4824.150	61.57	-8.98	52.59	74.00	-21.41	peak
2	*	4824.150	51.85	-8.98	42.87	54.00	-11.13	AVG

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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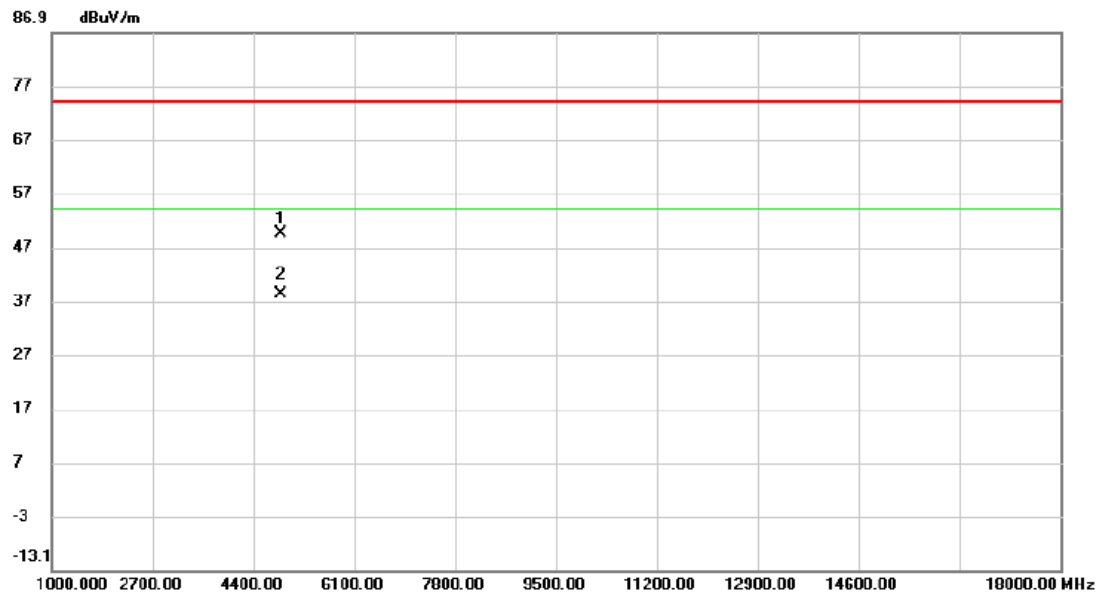


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4874.300	59.42	-8.66	50.76	74.00	-23.24	peak
2	*	4874.300	49.10	-8.66	40.44	54.00	-13.56	AVG

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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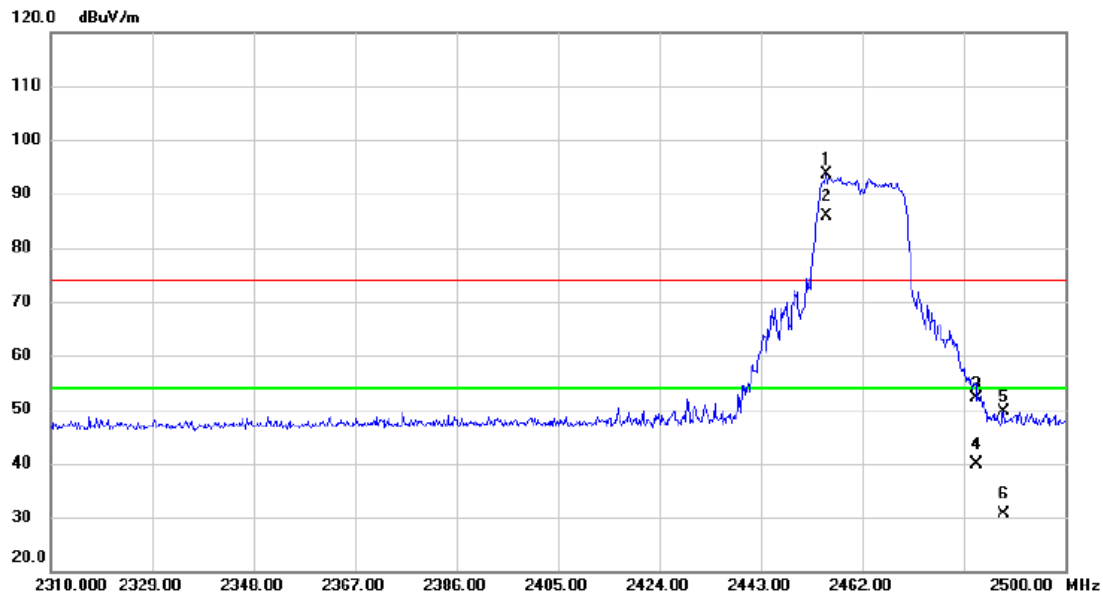


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4867.500	58.18	-8.69	49.49	74.00	-24.51	peak
2	*	4867.500	47.09	-8.69	38.40	54.00	-15.60	AVG

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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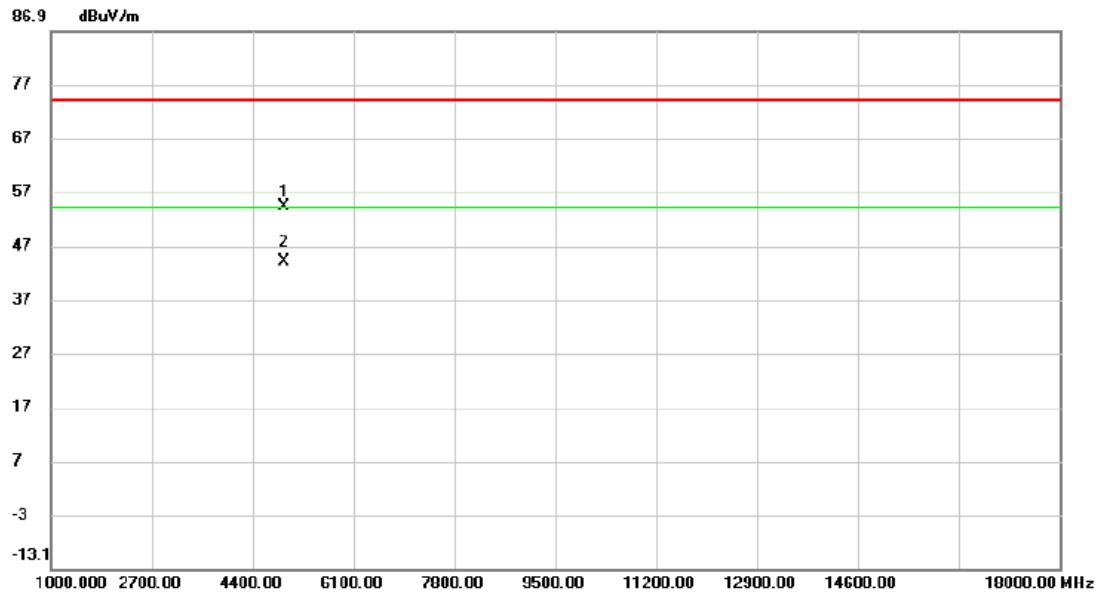
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Over Limit	Over	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	X	2455.350	61.04	32.63	93.67	74.00	19.67	peak
2	*	2455.350	53.23	32.63	85.86	54.00	31.86	AVG
3		2483.500	19.46	32.75	52.21	74.00	-21.79	peak
4		2483.500	7.23	32.75	39.98	54.00	-14.02	AVG
5		2488.600	16.90	32.76	49.66	74.00	-24.34	peak
6		2488.600	-2.20	32.76	30.56	54.00	-23.44	AVG

REMARKS:

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

(2) $\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}.$

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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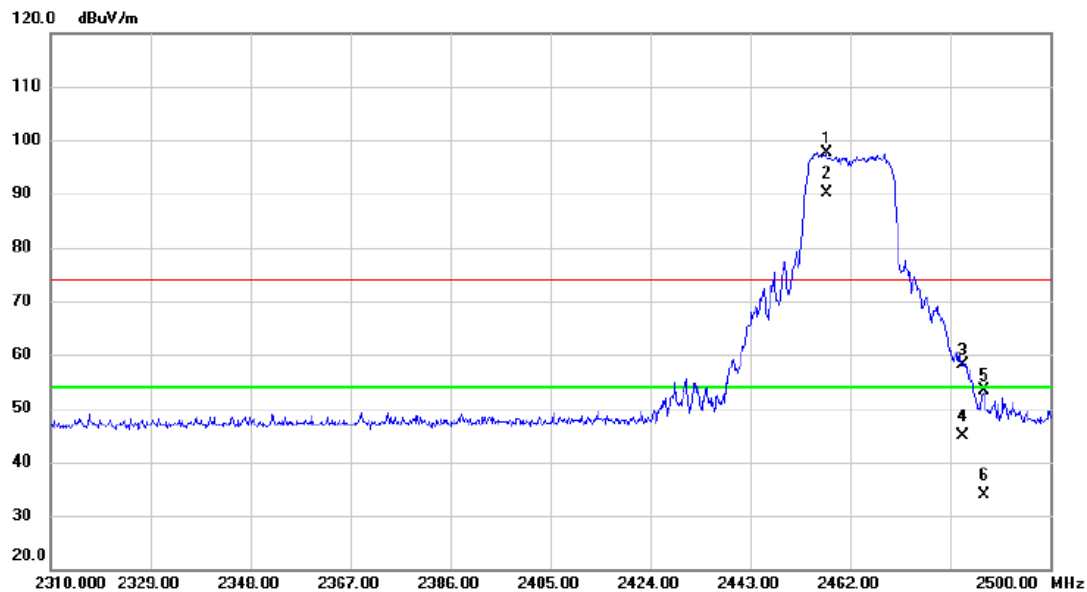


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4925.300	62.65	-8.34	54.31	74.00	-19.69	peak
2	*	4925.300	52.42	-8.34	44.08	54.00	-9.92	AVG

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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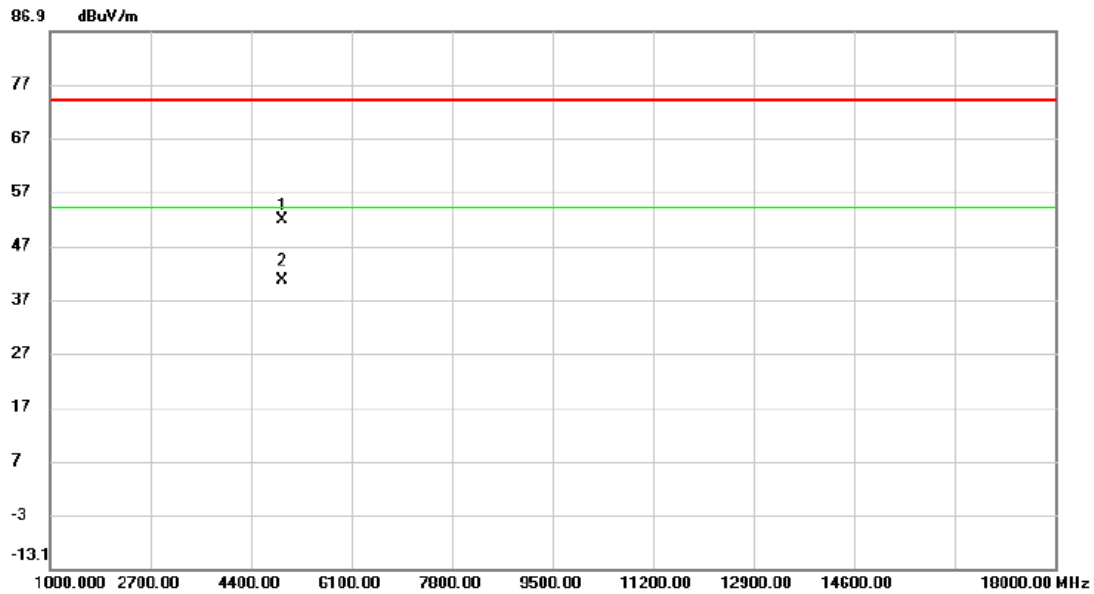


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
								Detector Comment
1	X	2457.535	65.03	32.64	97.67	74.00	23.67	peak
2	*	2457.535	57.37	32.64	90.01	54.00	36.01	AVG
3		2483.500	25.44	32.75	58.19	74.00	-15.81	peak
4		2483.500	12.25	32.75	45.00	54.00	-9.00	AVG
5		2487.365	20.55	32.76	53.31	74.00	-20.69	peak
6		2487.365	1.19	32.76	33.95	54.00	-20.05	AVG

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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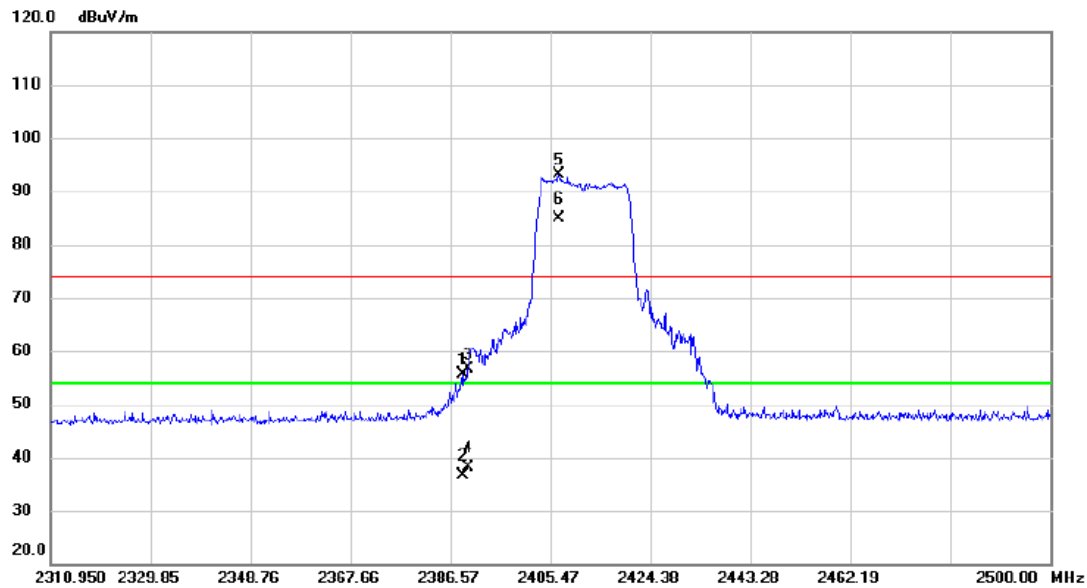


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4926.150	60.00	-8.33	51.67	74.00	-22.33	peak
2	*	4926.150	48.78	-8.33	40.45	54.00	-13.55	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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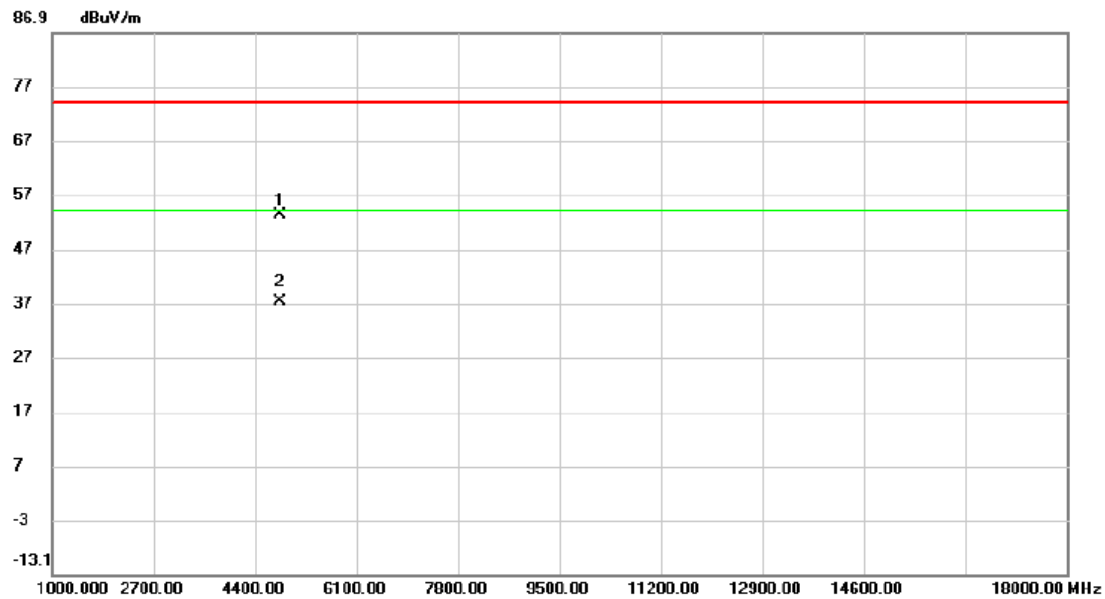


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
1		2388.839	23.32	32.37	55.69	74.00	-18.31	peak	
2		2388.839	4.23	32.37	36.60	54.00	-17.40	AVG	
3		2390.000	24.21	32.37	56.58	74.00	-17.42	peak	
4		2390.000	5.76	32.37	38.13	54.00	-15.87	AVG	
5	X	2407.176	60.63	32.43	93.06	74.00	19.06	peak	
6	*	2407.176	52.41	32.43	84.84	54.00	30.84	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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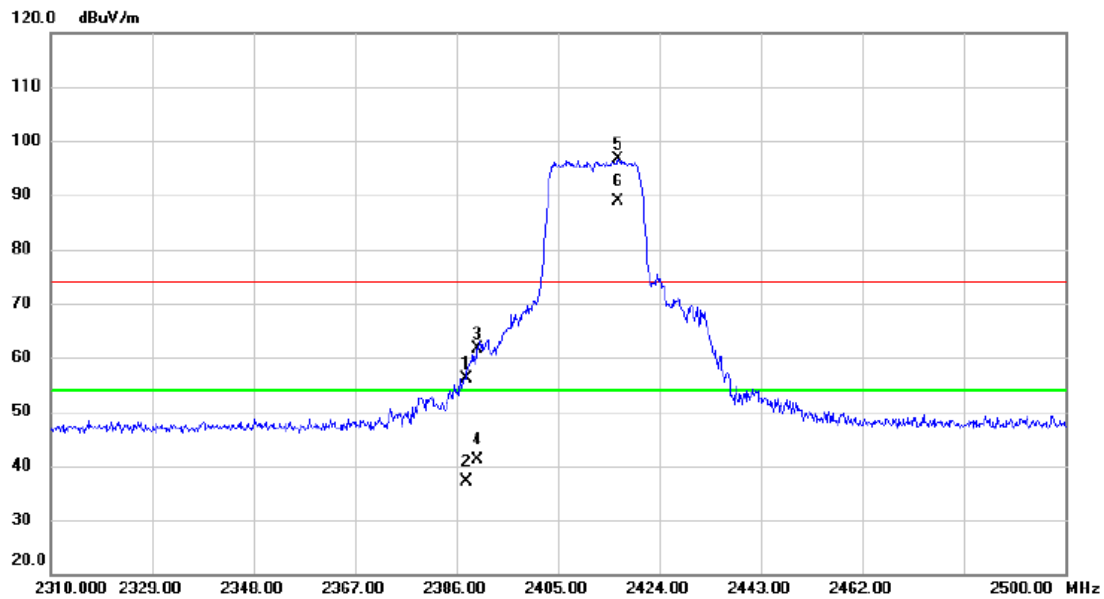


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4817.350	62.28	-9.02	53.26	74.00	-20.74	peak
2	*	4817.350	46.40	-9.02	37.38	54.00	-16.62	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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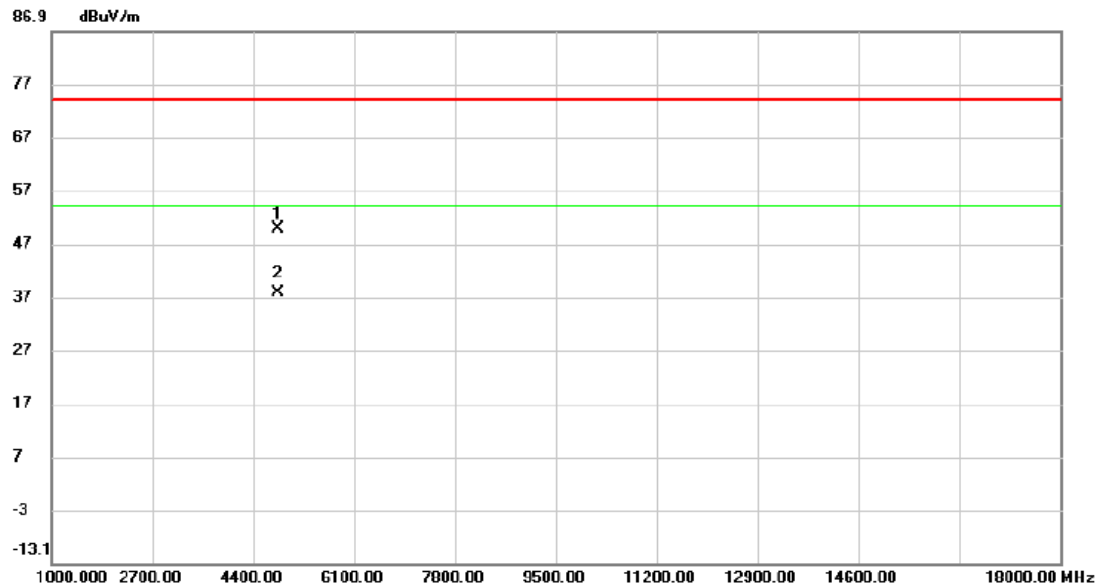


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
1		2387.805	23.83	32.36	56.19	74.00	-17.81	peak	
2		2387.805	4.88	32.36	37.24	54.00	-16.76	AVG	
3		2390.000	29.27	32.37	61.64	74.00	-12.36	peak	
4		2390.000	8.77	32.37	41.14	54.00	-12.86	AVG	
5	X	2416.210	64.18	32.48	96.66	74.00	22.66	peak	
6	*	2416.210	56.48	32.48	88.96	54.00	34.96	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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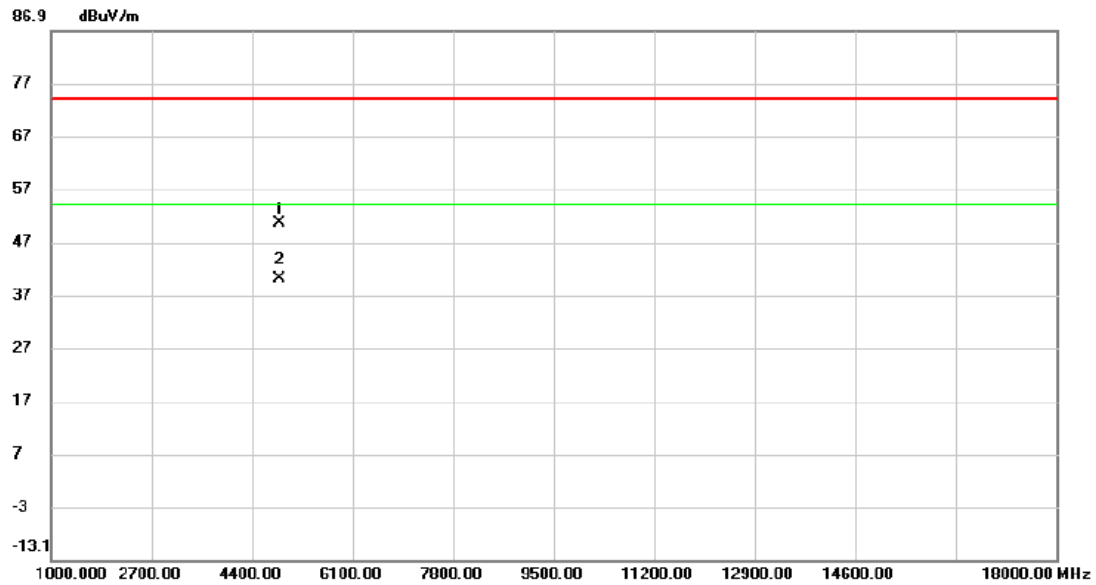


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector
1		4822.450	58.78	-8.99	49.79	74.00	-24.21	peak
2	*	4822.450	46.85	-8.99	37.86	54.00	-16.14	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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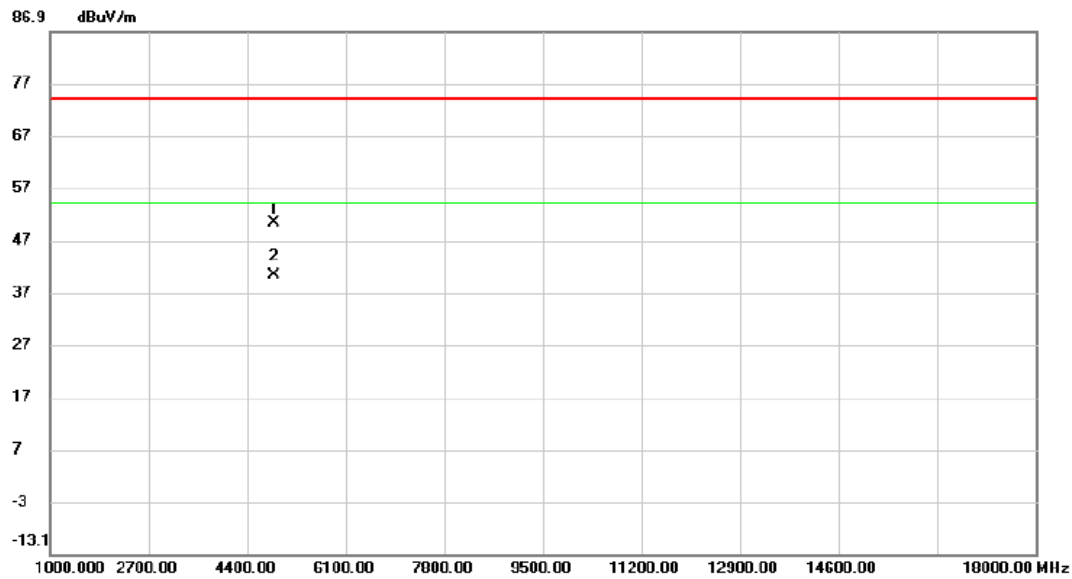


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4872.600	59.27	-8.66	50.61	74.00	-23.39	peak
2	*	4872.600	48.72	-8.66	40.06	54.00	-13.94	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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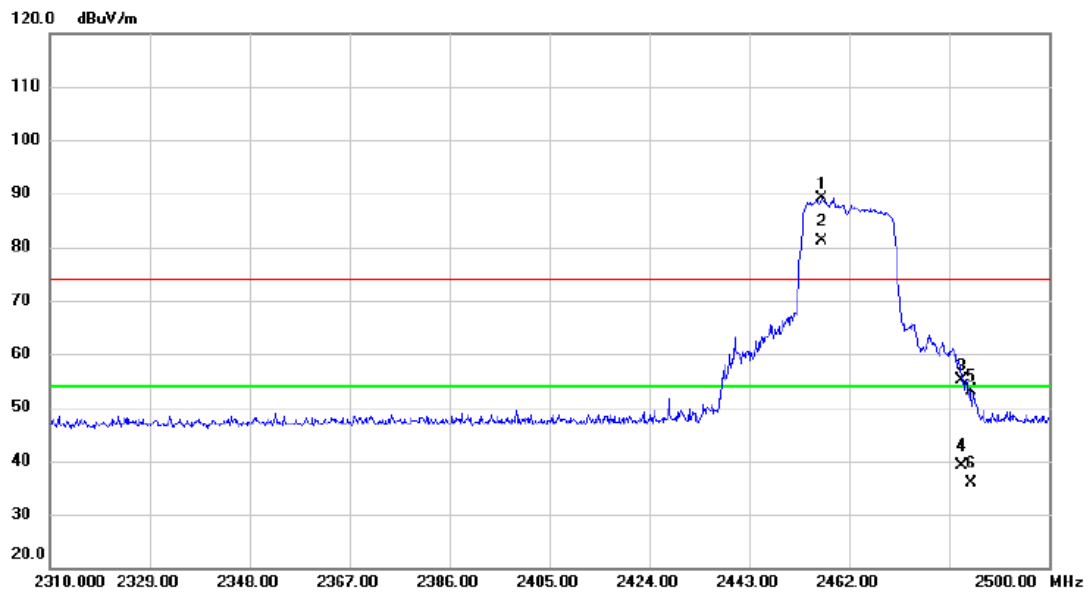


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4872.600	58.92	-8.66	50.26	74.00	-23.74	peak
2	*	4872.600	49.02	-8.66	40.36	54.00	-13.64	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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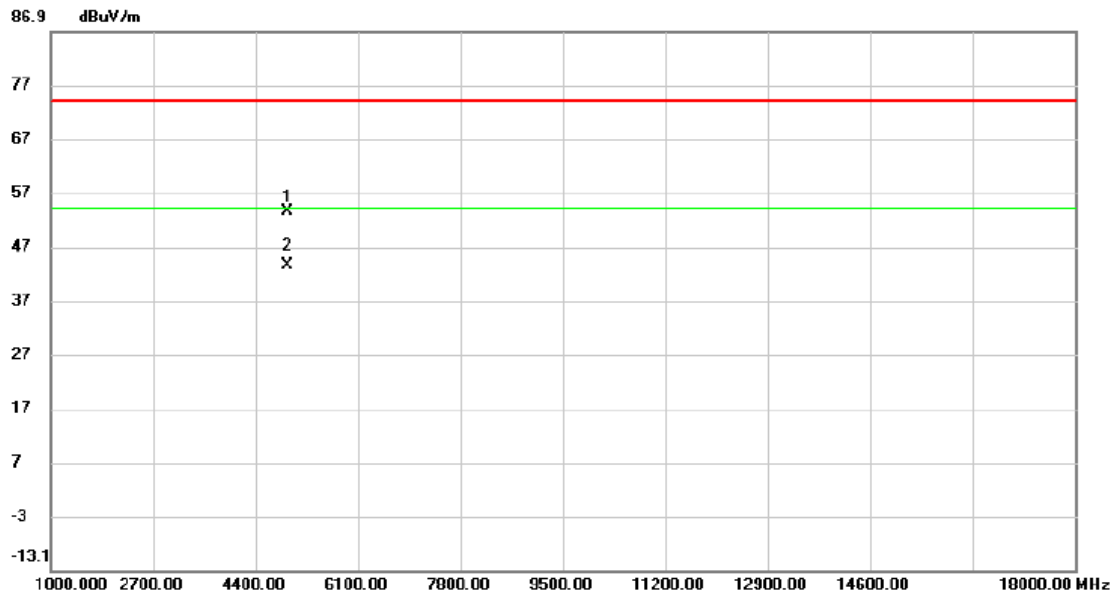


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Over Limit	Over		
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2456.775	56.52	32.64	89.16	74.00	15.16	peak	
2	*	2456.775	48.51	32.64	81.15	54.00	27.15	AVG	
3		2483.500	22.26	32.75	55.01	74.00	-18.99	peak	
4		2483.500	6.39	32.75	39.14	54.00	-14.86	AVG	
5		2485.085	20.37	32.75	53.12	74.00	-20.88	peak	
6		2485.085	3.05	32.75	35.80	54.00	-18.20	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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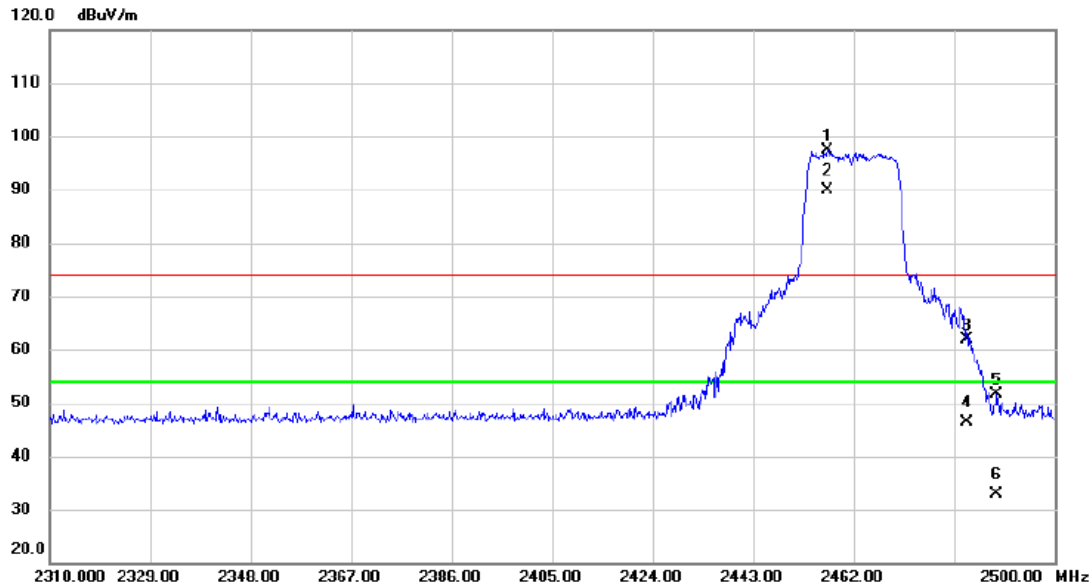


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4925.300	61.84	-8.34	53.50	74.00	-20.50	peak
2	*	4925.300	51.77	-8.34	43.43	54.00	-10.57	AVG

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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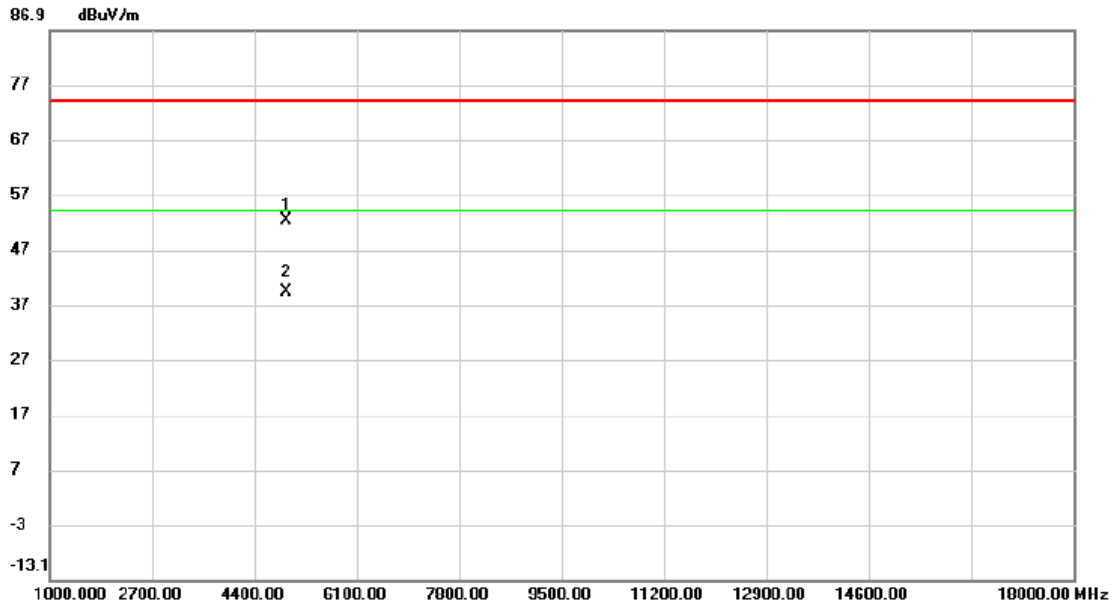


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
1	X	2457.155	64.75	32.64	97.39	74.00	23.39	peak	
2	*	2457.155	57.21	32.64	89.85	54.00	35.85	AVG	
3		2483.500	29.05	32.75	61.80	74.00	-12.20	peak	
4		2483.500	13.60	32.75	46.35	54.00	-7.65	AVG	
5		2489.075	18.89	32.77	51.66	74.00	-22.34	peak	
6		2489.075	0.14	32.77	32.91	54.00	-21.09	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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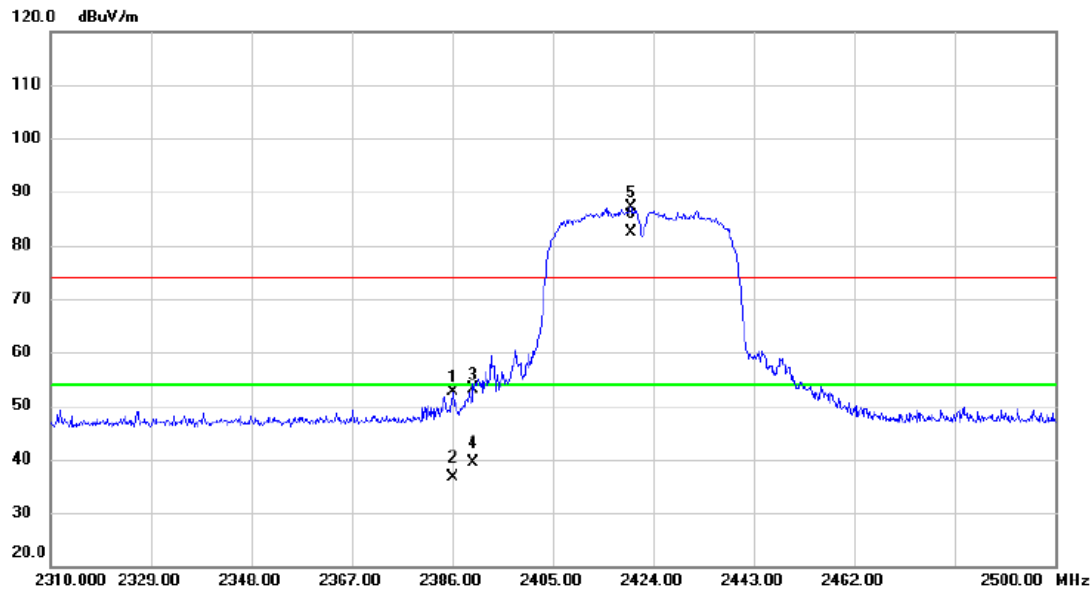
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4932.950	60.58	-8.29	52.29	74.00	-21.71	peak
2	*	4932.950	47.65	-8.29	39.36	54.00	-14.64	AVG

REMARKS:

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

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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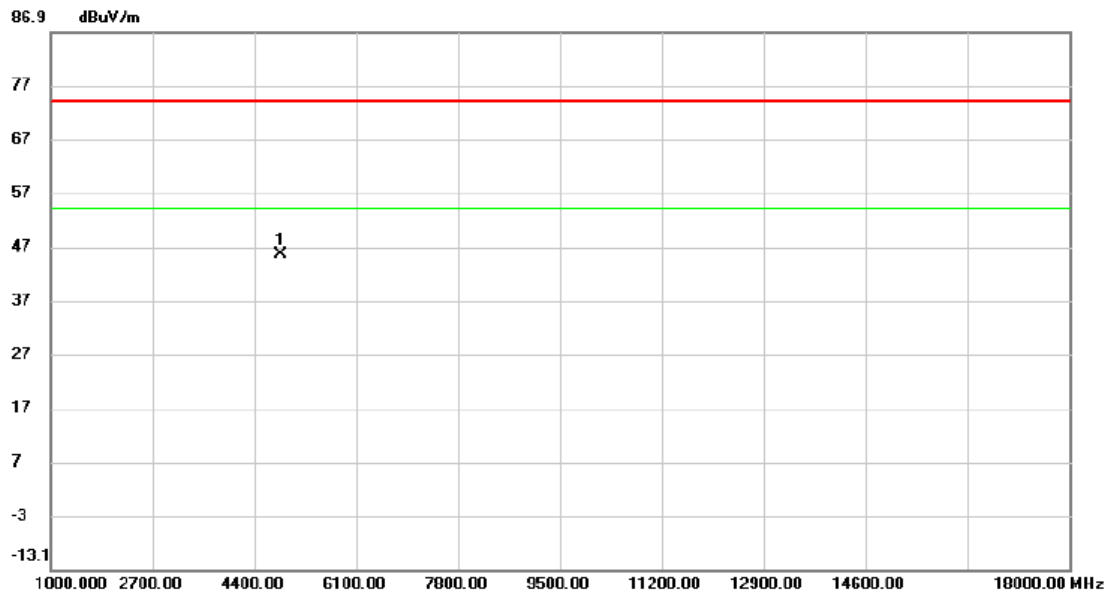


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit dB	Over	Detector	Comment
1		2386.095	20.28	32.36	52.64	74.00	-21.36	peak	
2		2386.095	4.17	32.36	36.53	54.00	-17.47	AVG	
3		2390.000	20.84	32.37	53.21	74.00	-20.79	peak	
4		2390.000	6.91	32.37	39.28	54.00	-14.72	AVG	
5	X	2419.820	54.65	32.49	87.14	74.00	13.14	peak	
6	*	2419.820	49.83	32.49	82.32	54.00	28.32	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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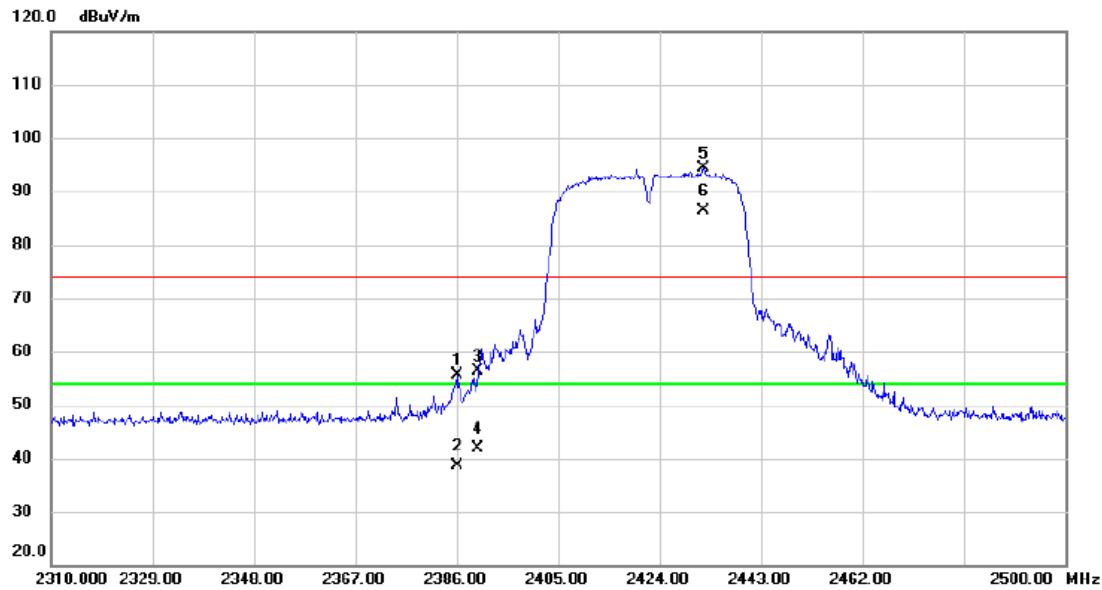


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	4844.000	54.37	-8.86	45.51	74.00	-28.49	peak

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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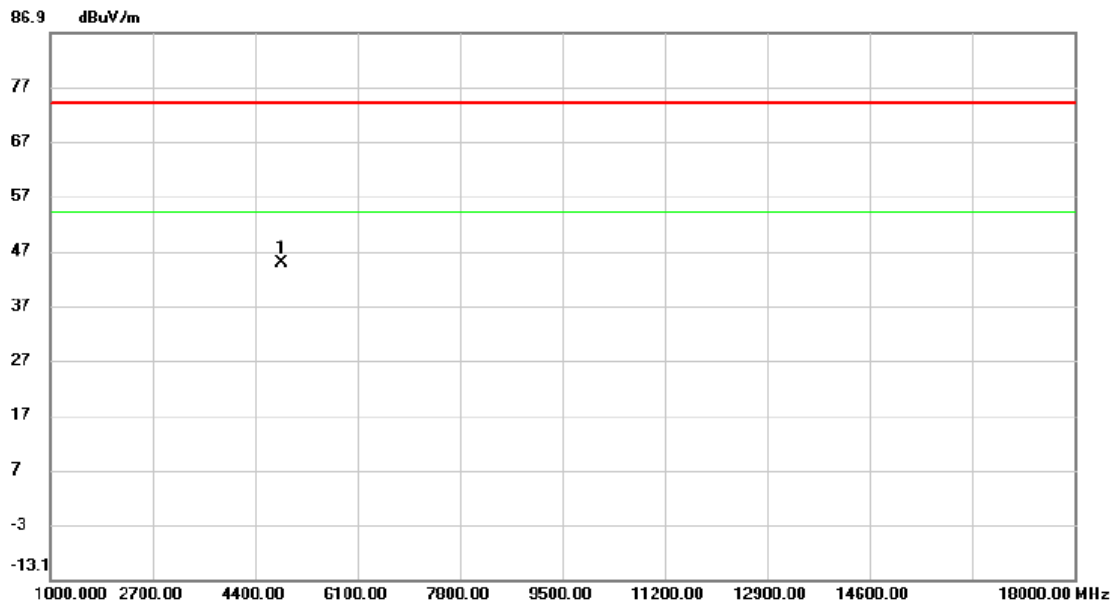


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	
1		2386.095	23.19	32.36	55.55	74.00	-18.45	peak
2		2386.095	6.39	32.36	38.75	54.00	-15.25	AVG
3		2390.000	24.06	32.37	56.43	74.00	-17.57	peak
4		2390.000	9.56	32.37	41.93	54.00	-12.07	AVG
5	X	2432.170	61.76	32.54	94.30	74.00	20.30	peak
6	*	2432.170	53.76	32.54	86.30	54.00	32.30	AVG

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Horizontal
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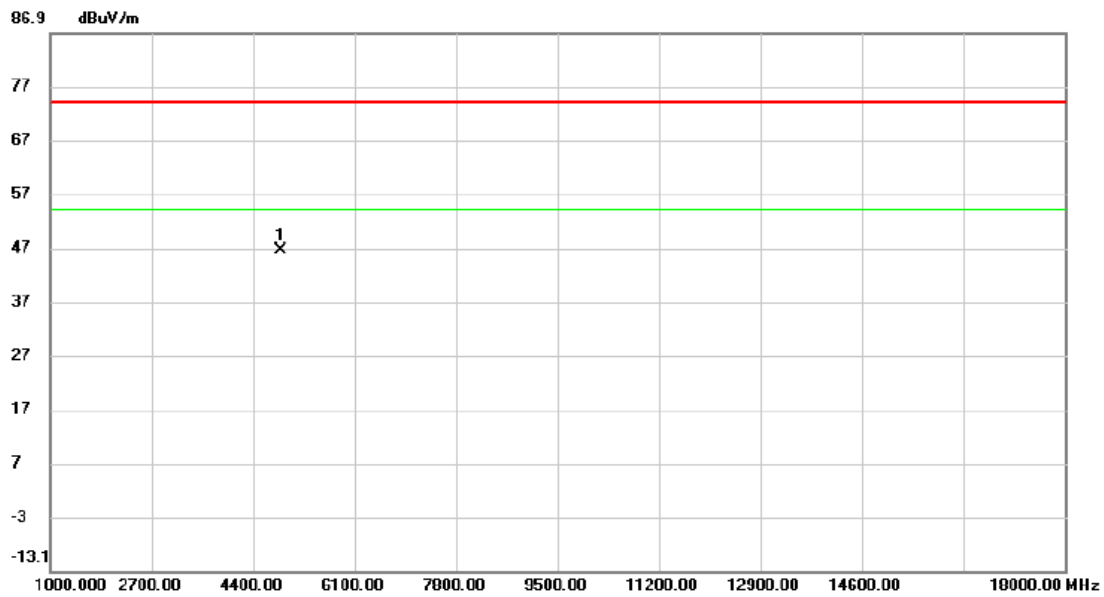


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit		
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	53.55	-8.86	44.69	74.00	-29.31	peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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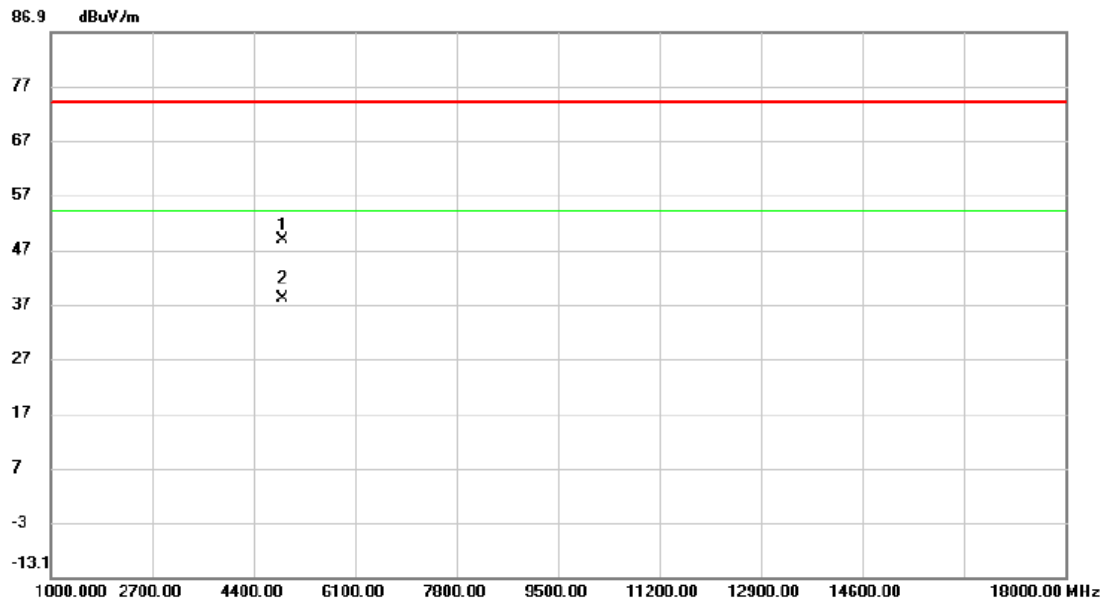


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	4867.500	55.11	-8.69	46.42	74.00	-27.58	peak

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Horizontal
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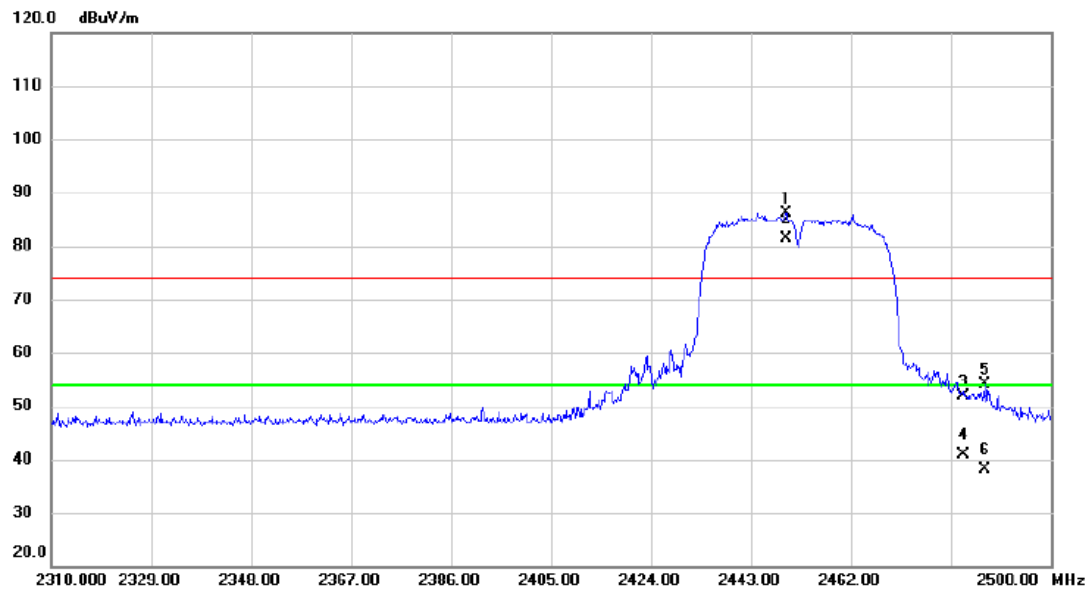


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4883.650	57.39	-8.59	48.80	74.00	-25.20	peak
2	*	4883.650	46.69	-8.59	38.10	54.00	-15.90	AVG

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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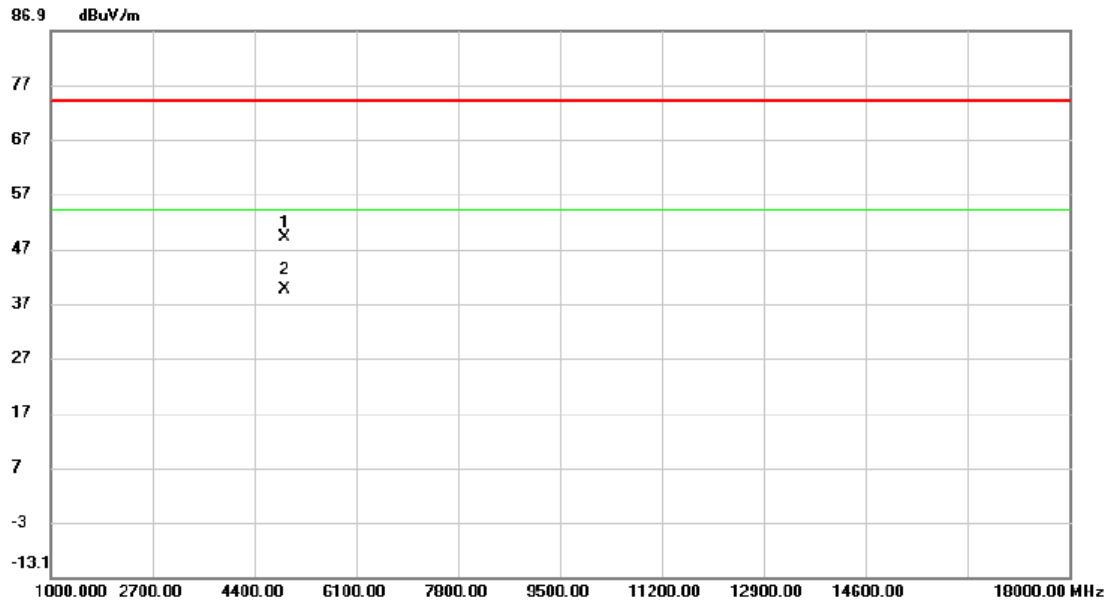


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over	Detector	Comment
1	X	2449.745	53.54	32.61	86.15	74.00	12.15	peak	
2	*	2449.745	48.89	32.61	81.50	54.00	27.50	AVG	
3		2483.500	19.09	32.75	51.84	74.00	-22.16	peak	
4		2483.500	8.07	32.75	40.82	54.00	-13.18	AVG	
5		2487.365	21.43	32.76	54.19	74.00	-19.81	peak	
6		2487.365	5.35	32.76	38.11	54.00	-15.89	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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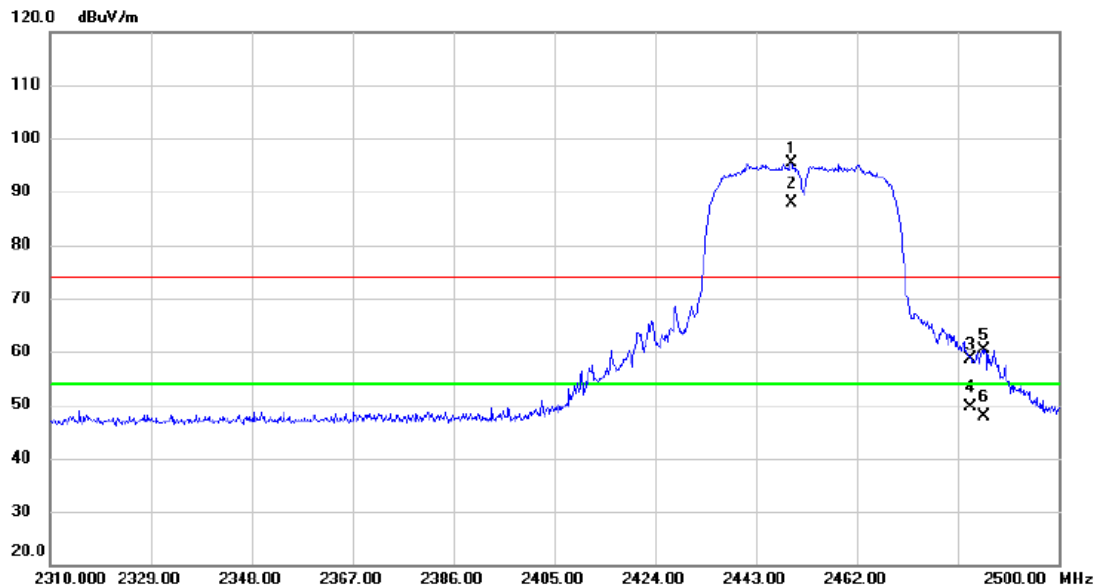


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over Limit dB	Detector	Comment
1	4909.150	57.42	-8.44	48.98	74.00	-25.02	peak	
2 *	4909.150	48.03	-8.44	39.59	54.00	-14.41	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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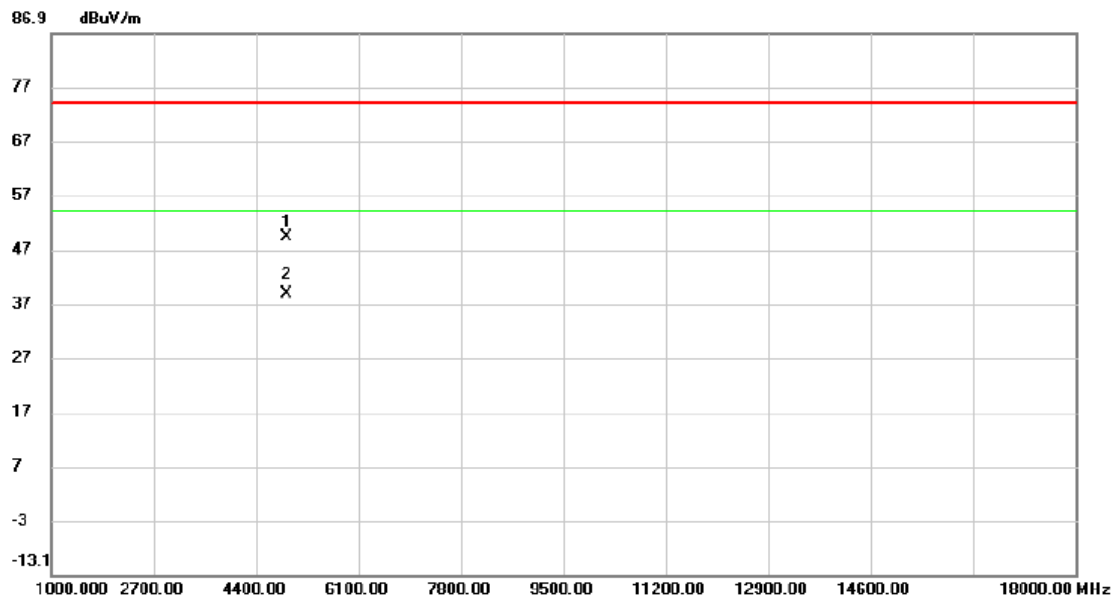


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Over Limit	Over		
1	X	2449.650	62.73	32.61	95.34	74.00	21.34	peak	
2	*	2449.650	55.22	32.61	87.83	54.00	33.83	AVG	
3		2483.500	25.87	32.75	58.62	74.00	-15.38	peak	
4		2483.500	16.88	32.75	49.63	54.00	-4.37	AVG	
5		2485.845	27.60	32.75	60.35	74.00	-13.65	peak	
6		2485.845	15.14	32.75	47.89	54.00	-6.11	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Horizontal
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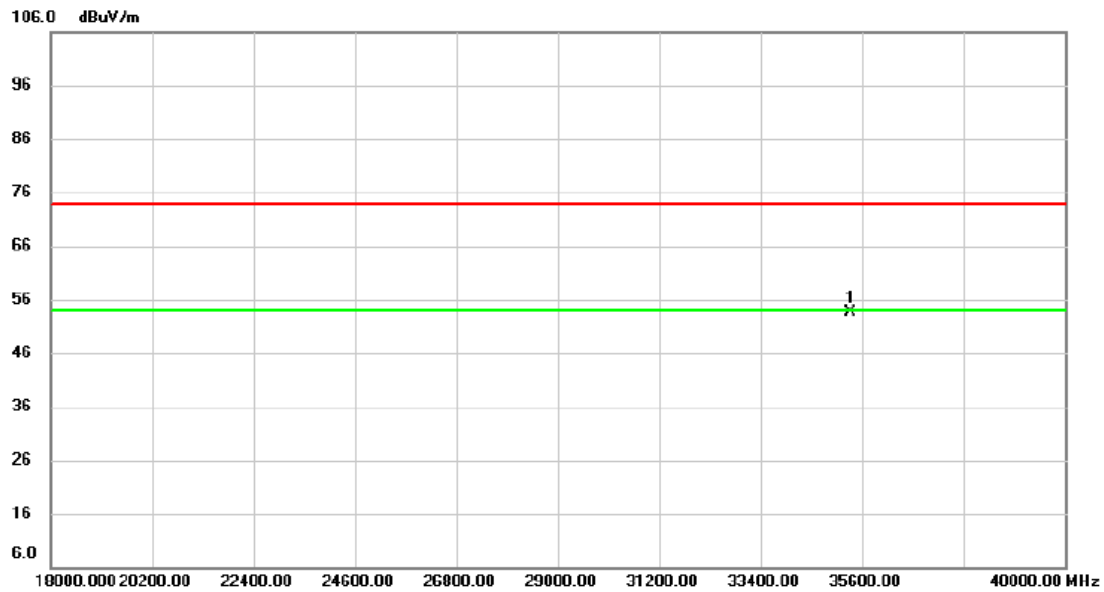


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1		4904.900	57.80	-8.46	49.34	74.00	-24.66	peak
2	*	4904.900	47.28	-8.46	38.82	54.00	-15.18	AVG

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Vertical
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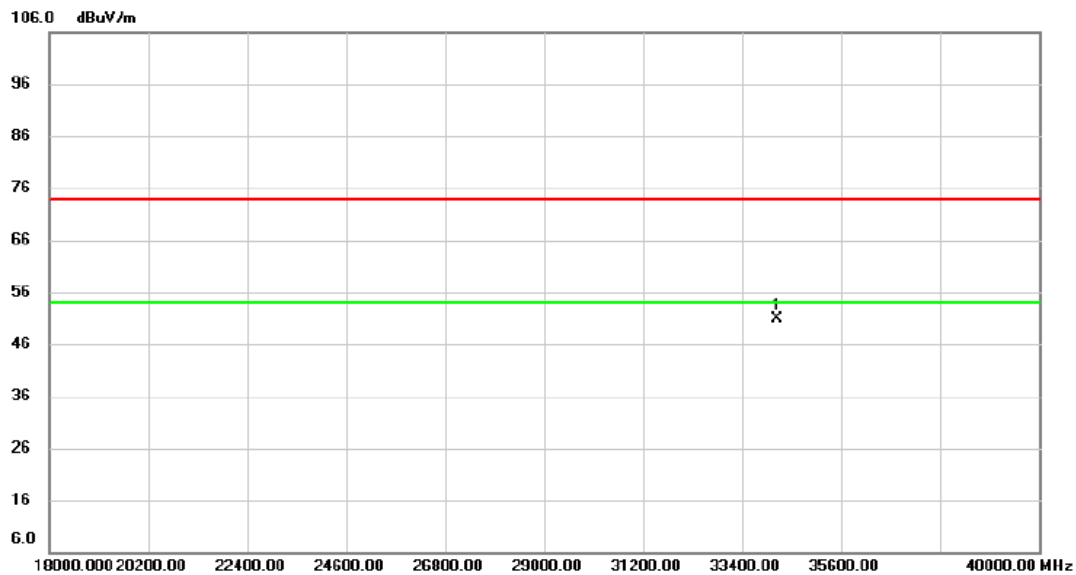


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit	
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector Comment
1	*	35347.000	53.30	0.37	53.67	74.00	-20.33	peak

REMARKS:

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

Test Mode	TX B Mode Channel 01	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit		
		MHz	dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1	*	34181.000	52.79	-2.00	50.79	74.00	-23.21	peak	

REMARKS:

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

APPENDIX E - BANDWIDTH

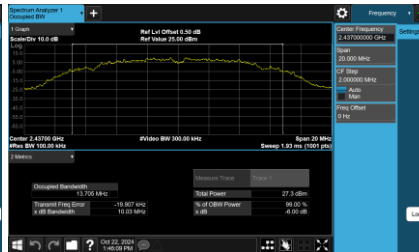
Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.579	13.405	0.5	Complies
06	2437	10.030	13.571	0.5	Complies
11	2462	9.572	13.384	0.5	Complies

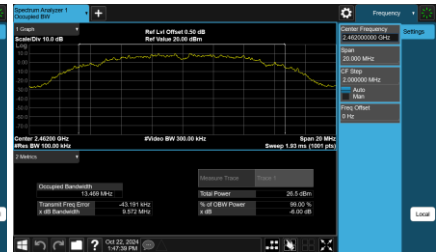
CH01



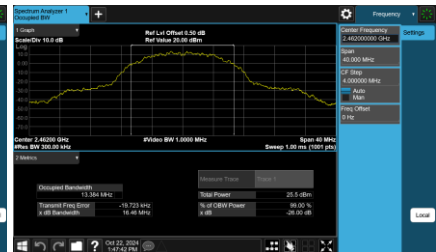
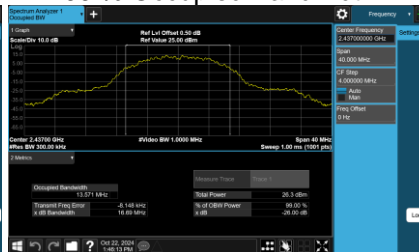
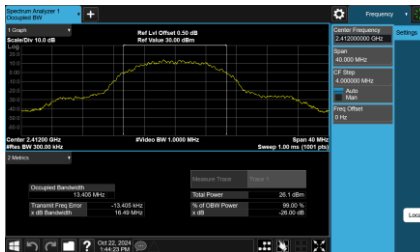
CH06
6 dB Bandwidth



CH11



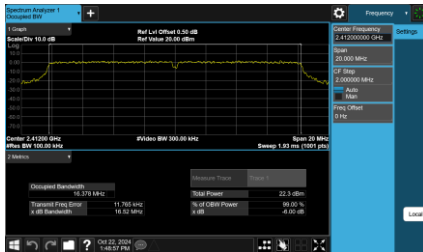
99 % Occupied Bandwidth



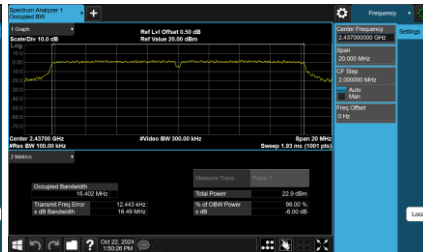
Test Mode	TX G Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.520	16.725	0.5	Complies
06	2437	16.490	16.937	0.5	Complies
11	2462	16.490	16.899	0.5	Complies

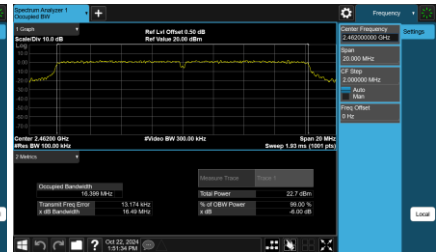
CH01



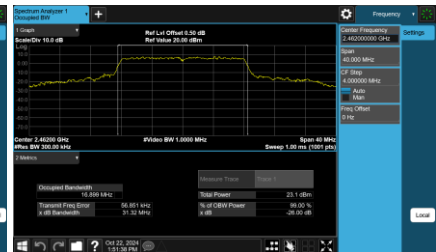
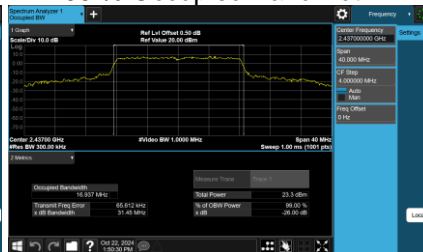
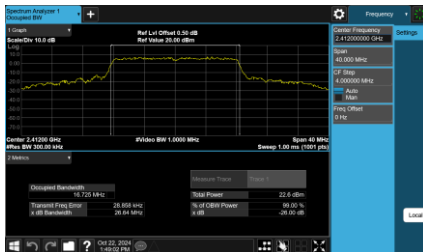
CH06
6 dB Bandwidth



CH11



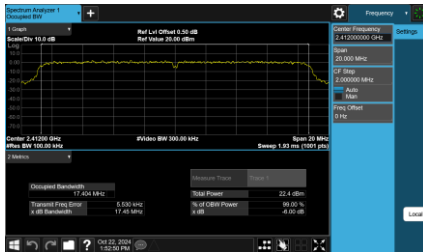
99 % Occupied Bandwidth



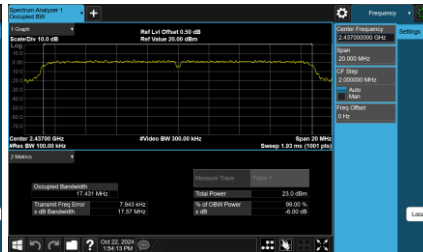
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.450	17.566	0.5	Complies
06	2437	17.570	17.785	0.5	Complies
11	2462	17.530	17.688	0.5	Complies

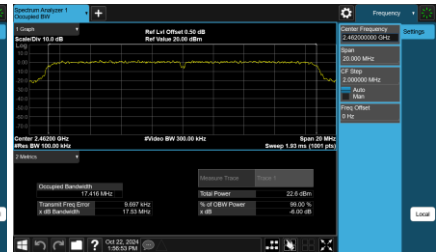
CH01



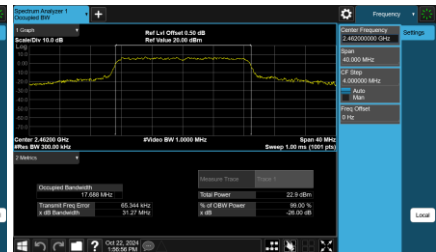
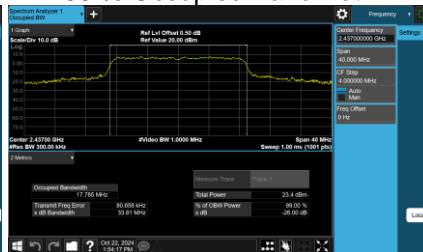
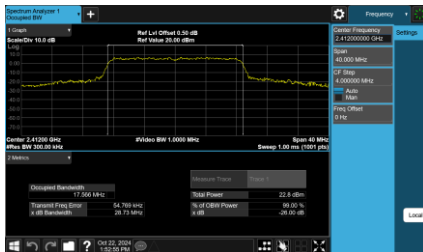
CH06
6 dB Bandwidth



CH11



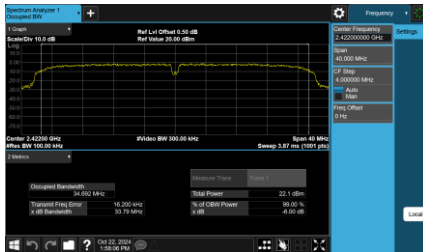
99 % Occupied Bandwidth



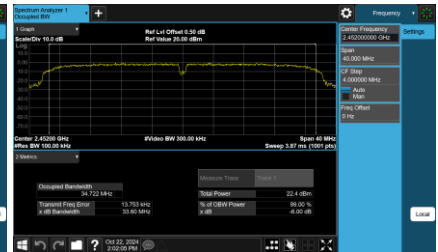
Test Mode	TX N(HT40) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	33.790	35.281	0.5	Complies
06	2437	33.790	35.493	0.5	Complies
09	2452	33.600	35.431	0.5	Complies

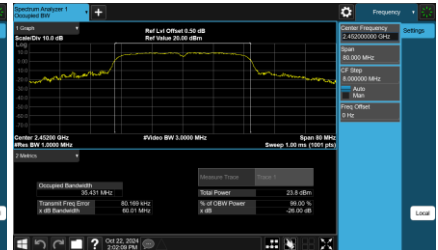
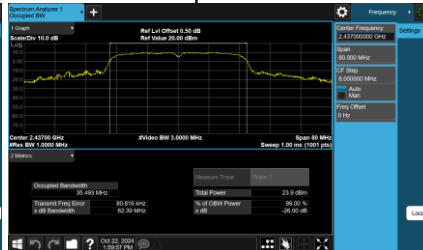
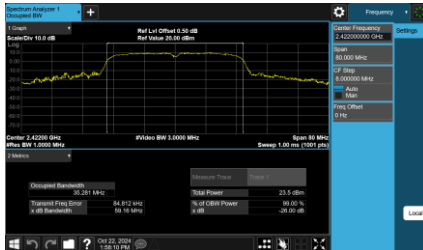
CH03


CH06
6 dB Bandwidth


CH09



99 % Occupied Bandwidth



APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.89	30.00	1.0000	Complies
06	2437	18.45	30.00	1.0000	Complies
11	2462	18.18	30.00	1.0000	Complies

Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.43	30.00	1.0000	Complies
06	2437	15.27	30.00	1.0000	Complies
11	2462	14.94	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.10	30.00	1.0000	Complies
06	2437	15.62	30.00	1.0000	Complies
11	2462	15.47	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode
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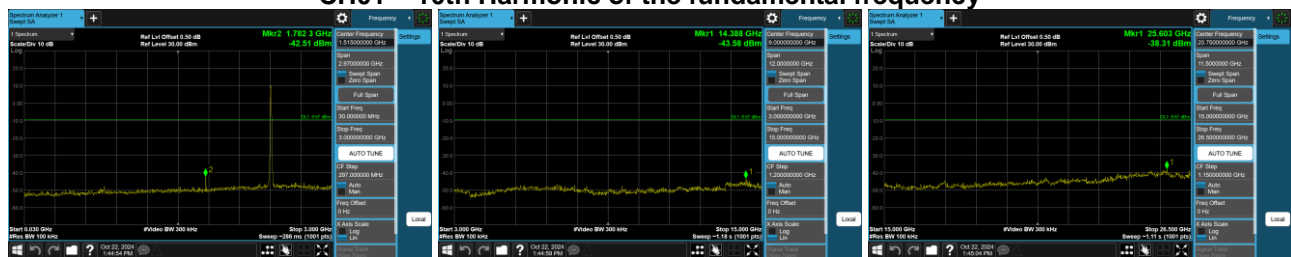
Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.91	30.00	1.0000	Complies
06	2437	14.53	30.00	1.0000	Complies
09	2452	14.51	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

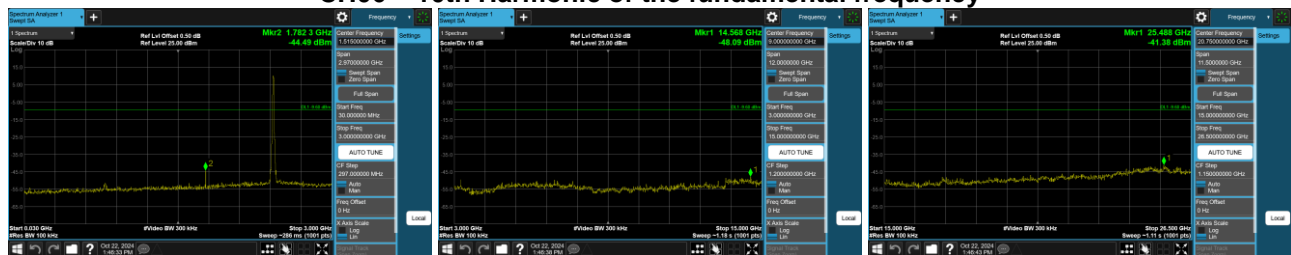
Test Mode	TX B Mode
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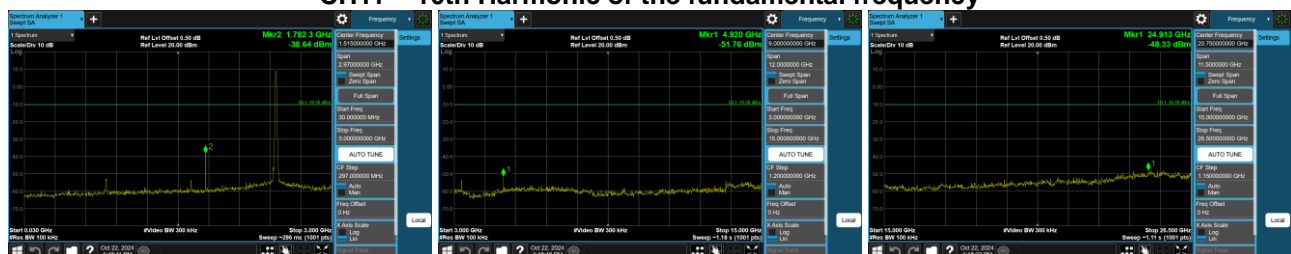
CH01 – 10th Harmonic of the fundamental frequency



CH06 – 10th Harmonic of the fundamental frequency



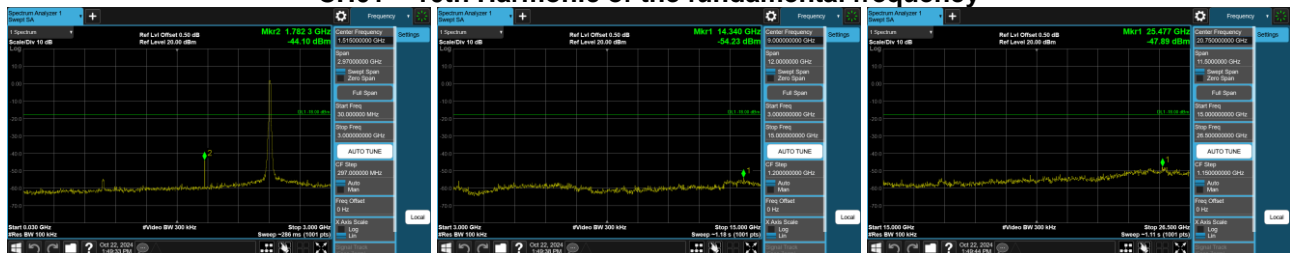
CH11 – 10th Harmonic of the fundamental frequency



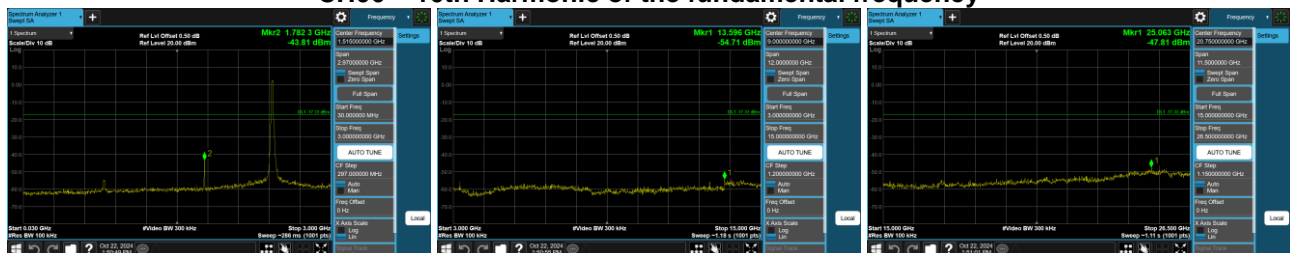
Test Mode	TX G Mode
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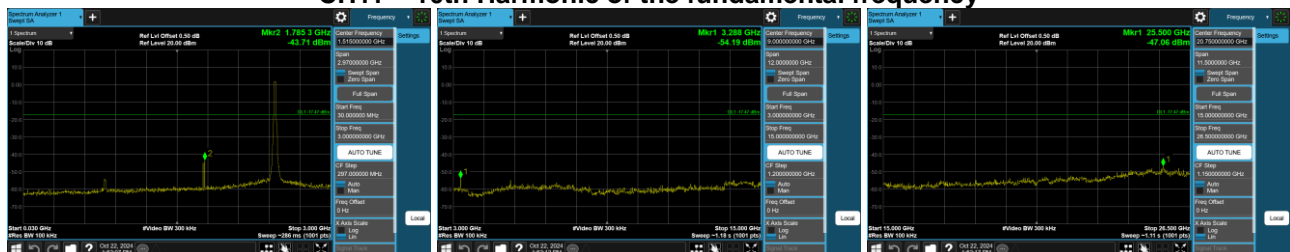
CH01 – 10th Harmonic of the fundamental frequency



CH06 – 10th Harmonic of the fundamental frequency



CH11 – 10th Harmonic of the fundamental frequency



Test Mode TX N(HT20) Mode

Bandedge-CH01



[illegible]

The figure displays three screenshots of the Spectrum Analyzer 1 GUI, illustrating different frequency ranges and signal levels.

- Screenshot 1 (Left):** Shows a frequency range from 0.000000 GHz to 3.000000 GHz. The signal level is 1.7829 GHz, with a 40.35 dBm offset. The display shows a single peak at approximately 2.4 GHz.
- Screenshot 2 (Middle):** Shows a frequency range from 0.000000 GHz to 3.000000 GHz. The signal level is 3.228 GHz, with a -52.78 dBm offset. The display shows a single peak at approximately 2.4 GHz.
- Screenshot 3 (Right):** Shows a frequency range from 0.000000 GHz to 3.000000 GHz. The signal level is 26.454 GHz, with a -47.44 dBm offset. The display shows a single peak at approximately 2.4 GHz.

The figure displays three screenshots of the Spectrum Analyzer application, each showing a different frequency range and signal level.

- Left Screenshot:** The frequency range is 0.000000 GHz to 3.000000 GHz. The signal level is 42.55 dBm. The spectrum shows a prominent peak at approximately 2.192 GHz.
- Middle Screenshot:** The frequency range is 0.000000 GHz to 10.000000 GHz. The signal level is -53.59 dBm. The spectrum shows a prominent peak at approximately 3.262 GHz.
- Right Screenshot:** The frequency range is 10.000000 GHz to 20.000000 GHz. The signal level is -47.10 dBm. The spectrum shows a prominent peak at approximately 16.523 GHz.

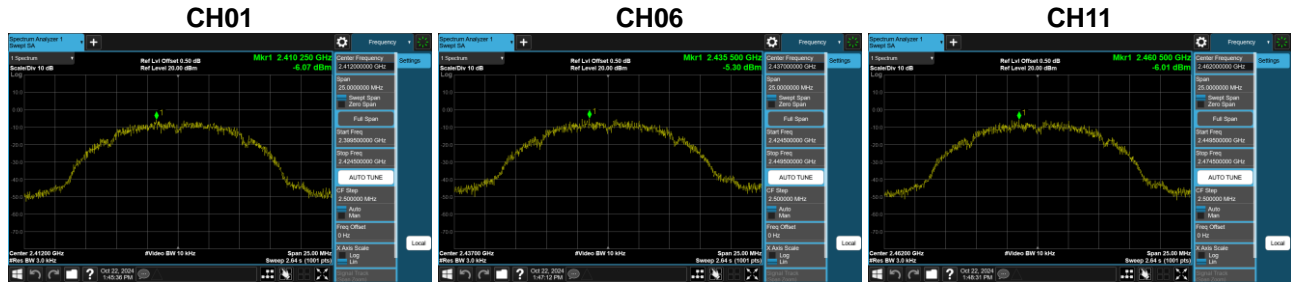
The figure displays three screenshots of the Spectrum Analyzer interface, showing different frequency ranges and signal levels. Each screenshot includes a main plot area, a top status bar, and a right-hand control panel.

- Screenshot 1 (Left):** The frequency range is 0.000 GHz to 3.000 GHz. The signal level is -53.55 dBm. The plot shows a single peak at approximately 2.946 GHz. The control panel shows settings for Span (3.000000 GHz), Start Freq (0.000000 GHz), and Stop Freq (3.000000 GHz).
- Screenshot 2 (Middle):** The frequency range is 3.000 GHz to 15.000 GHz. The signal level is -53.46 dBm. The plot shows a single peak at approximately 3.954 GHz. The control panel shows settings for Span (12.000000 GHz), Start Freq (3.000000 GHz), and Stop Freq (15.000000 GHz).
- Screenshot 3 (Right):** The frequency range is 15.000 GHz to 25.000 GHz. The signal level is -47.92 dBm. The plot shows a single peak at approximately 24.574 GHz. The control panel shows settings for Span (10.000000 GHz), Start Freq (15.000000 GHz), and Stop Freq (25.000000 GHz).

APPENDIX H - POWER SPECTRAL DENSITY

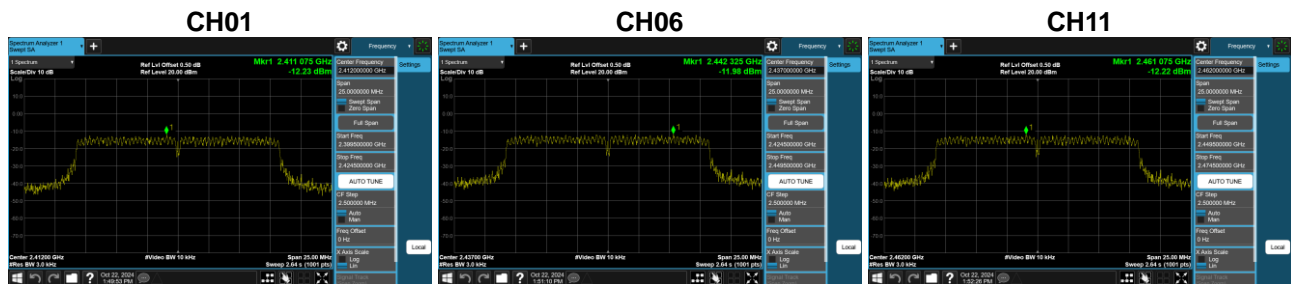
Test Mode	TX B Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.07	8.00	Complies
06	2437	-5.30	8.00	Complies
11	2462	-6.01	8.00	Complies



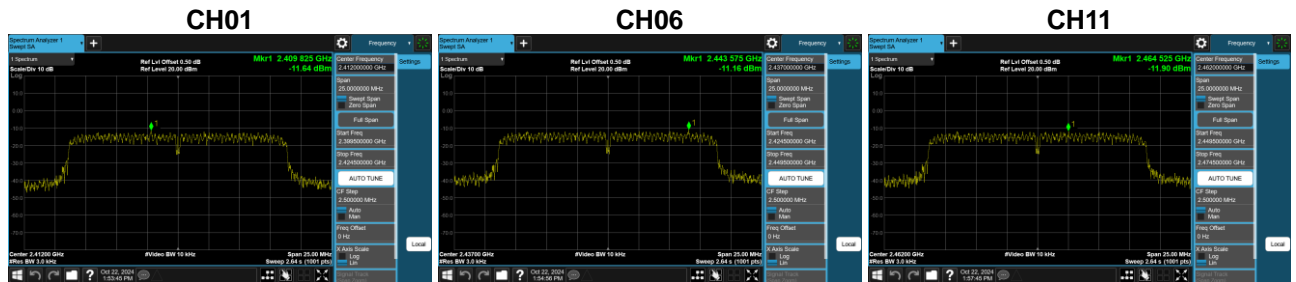
Test Mode	TX G Mode
-----------	-----------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-12.23	8.00	Complies
06	2437	-11.98	8.00	Complies
11	2462	-12.22	8.00	Complies



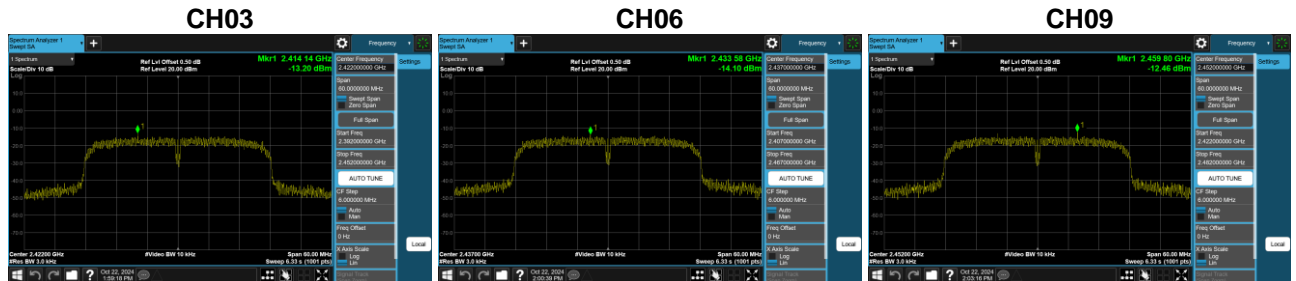
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-11.64	8.00	Complies
06	2437	-11.16	8.00	Complies
11	2462	-11.90	8.00	Complies



Test Mode	TX N(HT40) Mode
-----------	-----------------

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-13.20	8.00	Complies
06	2437	-14.10	8.00	Complies
09	2452	-12.46	8.00	Complies



End of Test Report