

FCC Radio Test Report

FCC ID: S3Z-CIM35X2

Report No. : BTL-FCCP-1-2002T042
Equipment : CIMX1PRO V3 Module
Model Name : CIMX1PRO V3
Brand Name : CIMCON
Applicant : CIMCON Lighting, Inc.
Address : 200 Summit Drive, Suite 500, South Tower, Burlington, MA 01803
Manufacturer : CIMCON Lighting, Inc.
Address : 200 Summit Drive, Suite 500, South Tower, Burlington, MA 01803

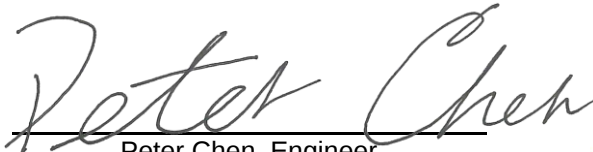
Radio Function : ZigBee

FCC Rule Part(s) : FCC Part15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2020/2/13
Date of Test : 2020/2/13 ~ 2020/7/14
Issued Date : 2020/7/23

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

Prepared by


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**Approved by**


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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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** 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 Version	Description	Issued Date
R00	Original Issue.	2020/7/23

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Part 15, Subpart C (15.247)				
Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	-----	N/A	NOTE(3)
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX A APPENDIX B	Pass	-----
15.247(a)(2)	Bandwidth	APPENDIX C	Pass	-----
15.247(b)(3)	Output Power	APPENDIX D	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX E	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX F	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) DC input device (Supplied by host).

1.1 TEST FACILITY

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

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 355421 and DN: TW1099.

☐ C05 ☐ CB08 ☐ CB11 ☒ CB15 ☐ CB16
☒ SR06

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

The test sites and facilities are covered under FCC RN: 325517 and DN: TW1115.

☐ C03 ☒ CB18 ☐ CB19

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

A. Radiated emissions test :

Test Site	Measurement Frequency Range	U_1 (dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23
CB18	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

B. Conducted test :

Test Item	U_1 (dB)
Bandwidth	1.13
Output power	1.06
Power Spectral Density	1.20
Conducted Spurious emissions	1.14
Conducted Band edges	1.13

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	Environment Condition	Tested by
Radiated emissions below 1 GHz	22~23 °C, 65 %	John Chuang Hunter Chiang
Radiated emissions above 1 GHz	22~23 °C, 65 %	John Chuang Hunter Chiang
Bandwidth	23.8 °C, 53 %	Jay Kao
Output Power	23.8 °C, 53 %	Jay Kao
Power Spectral Density	23.8 °C, 53 %	Jay Kao
Antenna conducted Spurious Emission	23.8 °C, 53 %	Jay Kao

1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

For Antenna Group I:

Test Software	Teraterm				
Modulation Mode	2405 MHz	2440 MHz	2470 MHz	2475 MHz	Data Rate
ZigBee	8	4	-3	-10	250 kbps

For Antenna Group II:

Test Software	Teraterm				
Modulation Mode	2405 MHz	2440 MHz	2470 MHz	2475 MHz	Data Rate
ZigBee	-4	8	-5	-10	250 kbps

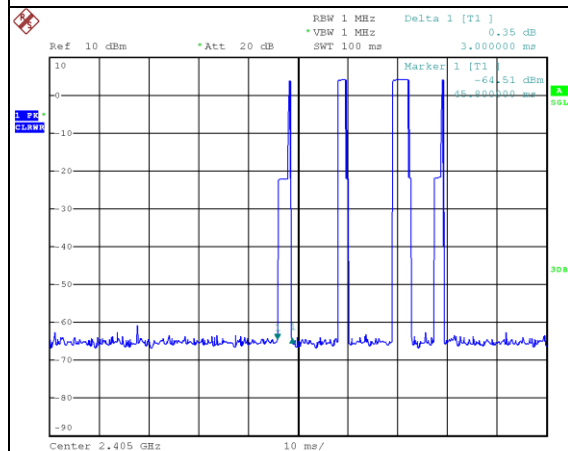
1.5 DUTY CYCLE

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

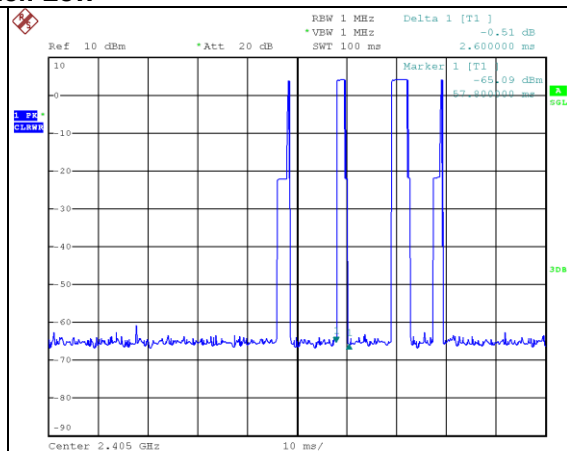
If duty cycle is $< 98\%$, duty factor shall be considered.

Channel	Channel Frequency (MHz)	Total Time On per 100 ms Period (ms)	Percentage of Time On per 100 ms Period (Fraction)	Duty Cycle Correction Factor (dB)	Maximum Allowed Duty Cycle Correction Factor (dB)	Applied Duty Cycle
Low	2405	12.200	0.122	-18.27	-20	-18.27
Middle	2440	11.800	0.118	-18.56		
High	2470	11.600	0.116	-18.71		

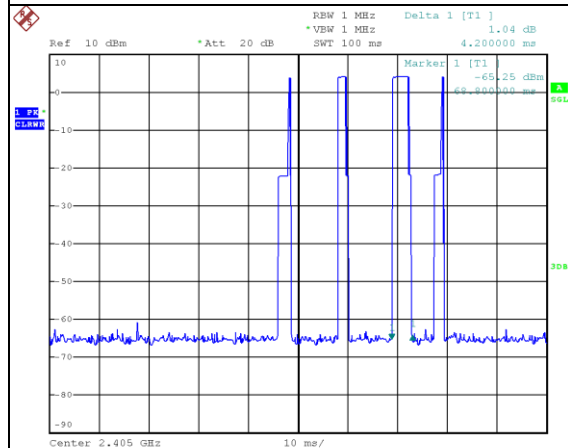
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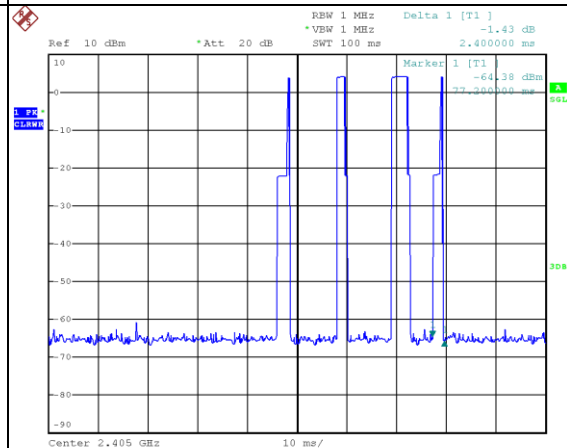
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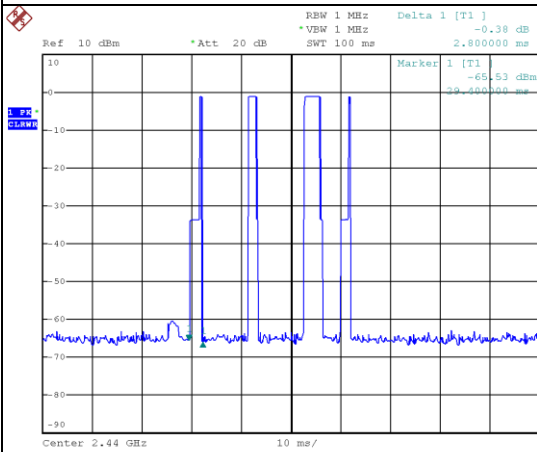


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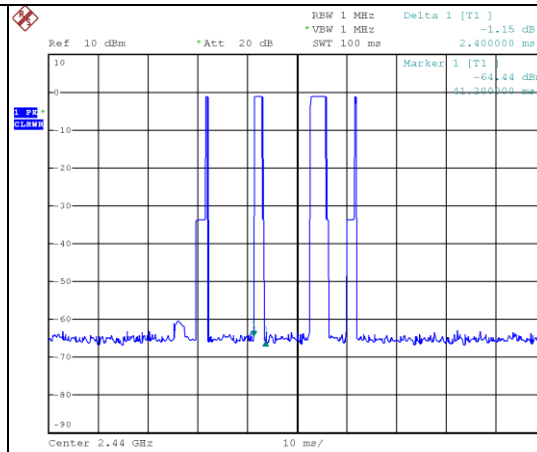


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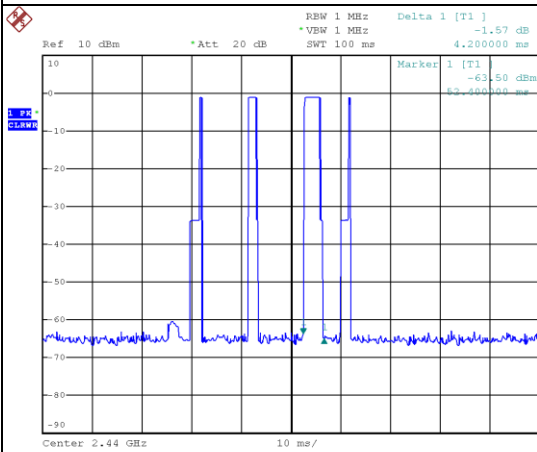
Channel: Middle



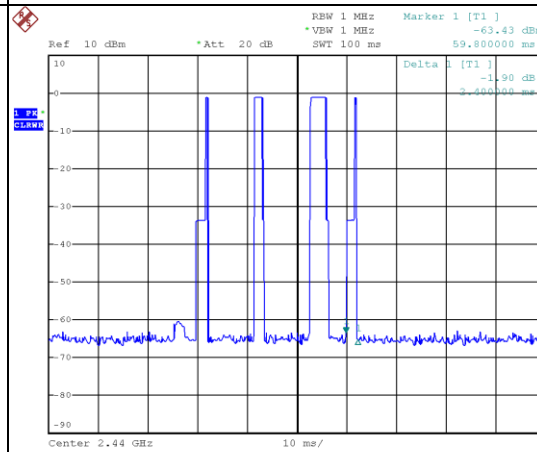
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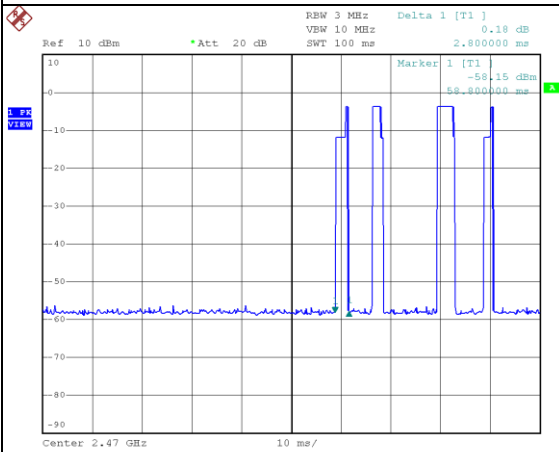


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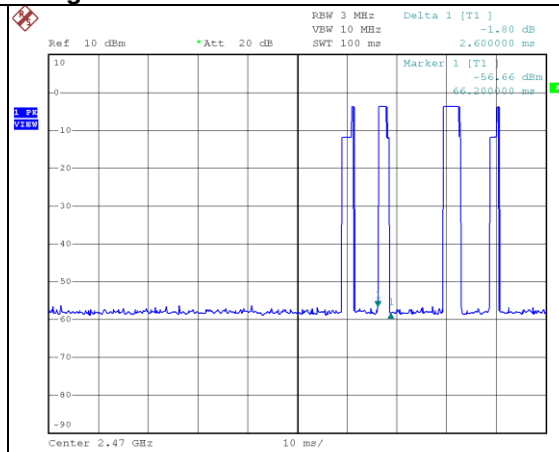


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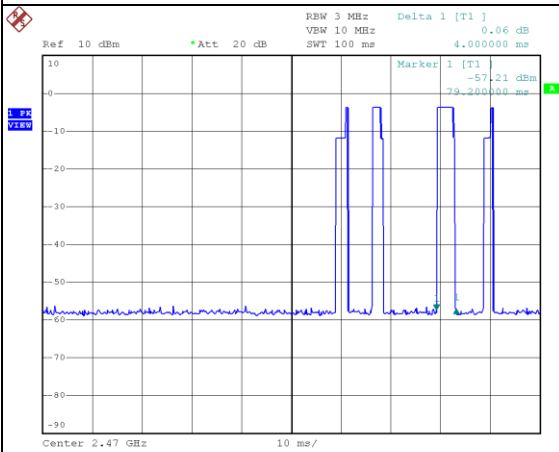
Channel: High



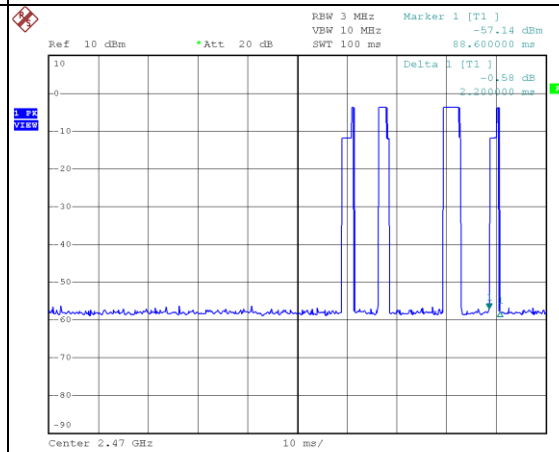
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Date: 19.JUN.2020 18:20:26



Date: 19.JUN.2020 18:23:43



Date: 19.JUN.2020 18:24:18

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	CIMX1PRO V3 Module
Model Name	CIMX1PRO V3
Brand Name	CIMCON
Model Difference	N/A
Power Source	Supplied by host
Power Rating	I/P: DC 2.1-3.6V
Products Covered	2 * Antenna
Frequency Range	2400 MHz ~ 2483.5 MHz
Operation Frequency	2405 MHz~ 2470 MHz and 2475 MHz
Modulation Technology	O-QPSK
Transfer Rate	250 kbit/s
Output Power Max.	Antenna Group I: 23.49 dBm (0.2234 W) Antenna Group II: 23.31 dBm (0.2143 W)
Test Model	CIMX1PRO V3
Sample Status	Engineering Sample
EUT Modification(s)	N/A

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)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440		

(3) Table for Filed Antenna:

Group I:

Ant.	Brand	Model No.	Antenna Type	Connector	Gain (dBi)
1	N/A	iSLC3100-7P	Monopole	N/A	1.5

Group II:

Ant.	Brand	Model No.	Antenna Type	Connector	Gain (dBi)
1	N/A	A24-HASM-450	Dipole	SMA	2.14

2.2 TEST MODES

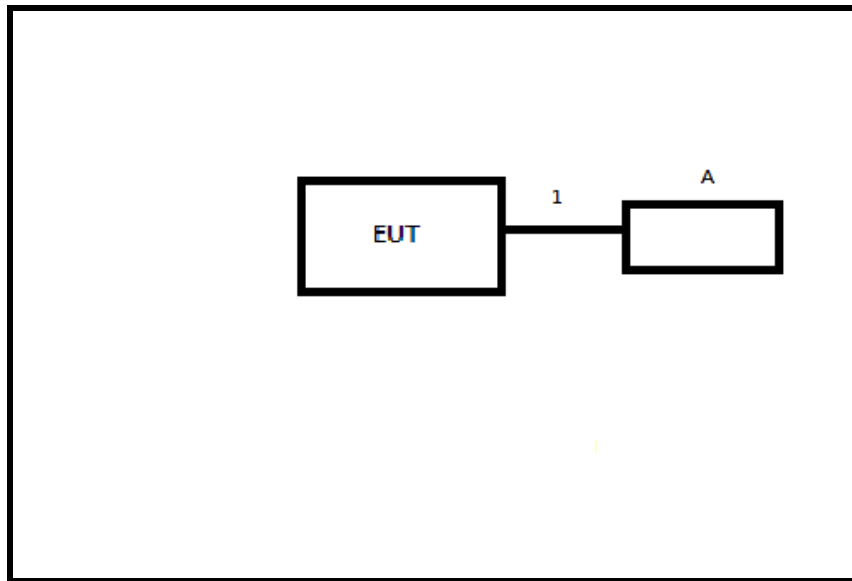
Test Items	Test mode	Channel	Note
Transmitter Radiated Emissions (below 1GHz)	ZigBee	11/25	-
Transmitter Radiated Emissions (above 1GHz)	ZigBee	11/24/25	Bandedge
	ZigBee	11/18/24/25	Harmonic
Bandwidth	ZigBee	11/18/24/25	-
Output Power	ZigBee	11/18/24/25	-
Power Spectral Density	ZigBee	11/18/24/25	-
Antenna conducted Spurious Emission	ZigBee	11/18/24/25	-

NOTE:

- (1) The EUT includes two groups of antenna assemblies, all are evaluated. For Transmitter Radiated Emissions, only the worst cases are recorded.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical (Antenna Group I), Horizontal (Antenna Group II)) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (4) There were no emissions found below 30 MHz within 20 dB of the limit.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Fixture board	NA	NA	NA	-

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	NA	NA	1.5M	Power Cable	-

3 RADIATED EMISSIONS TEST

3.1 LIMIT

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

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

NOTE:

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

Reading Level		Correct Factor		Measurement Value
41.91	+	-8.36	=	33.55

Measurement Value		Limit Value		Margin Level
33.55	-	43.50	=	-9.95

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

3.2 TEST PROCEDURE

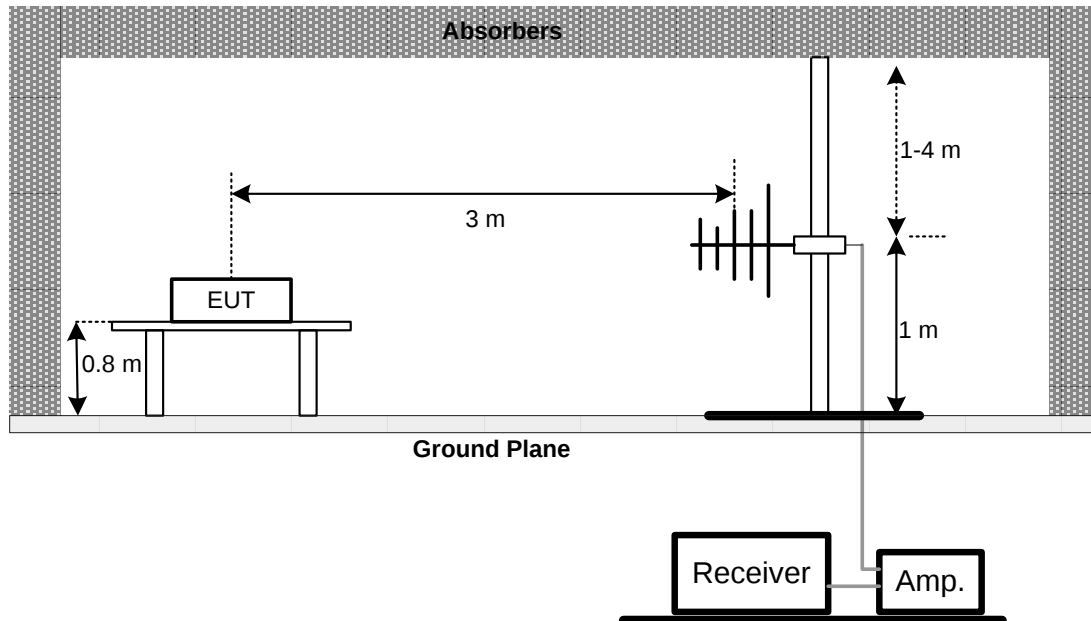
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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 1GHz.
- 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 1GHz)
- 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 1GHz)
- i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

3.3 DEVIATION FROM TEST STANDARD

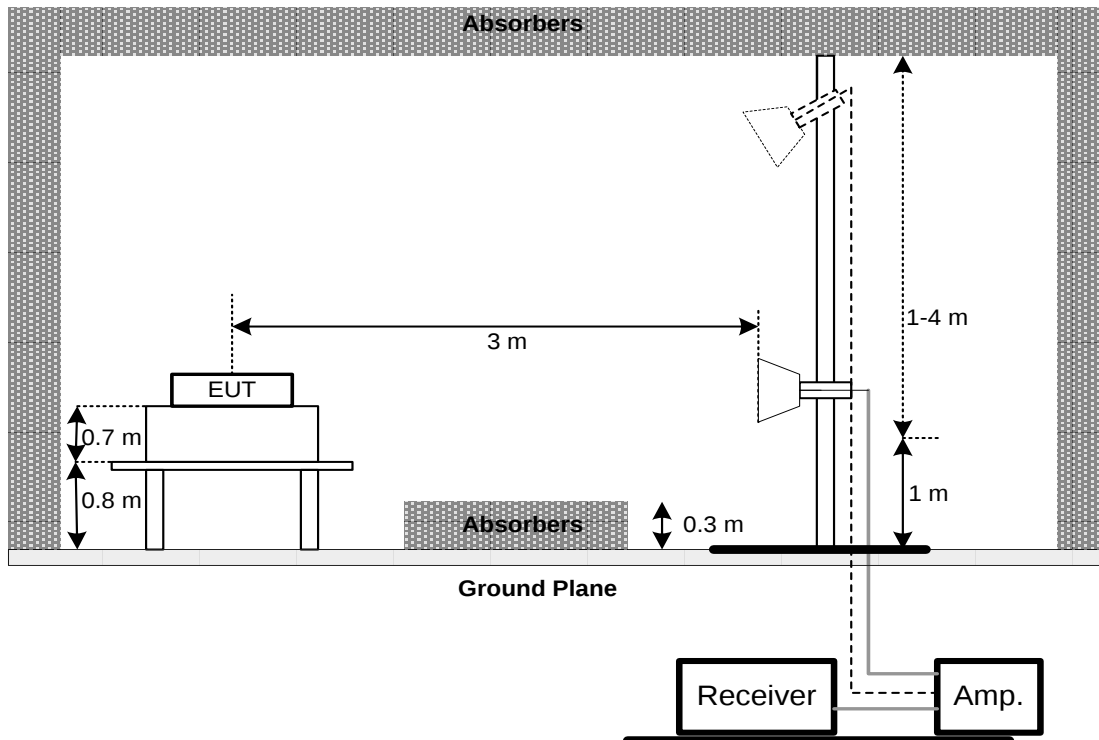
No deviation.

3.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX A.

3.7 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX B.

NOTE:

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

4 BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

4.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Please refer to the APPENDIX C.

5 OUTPUT POWER TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

5.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX D.

6 POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7 ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

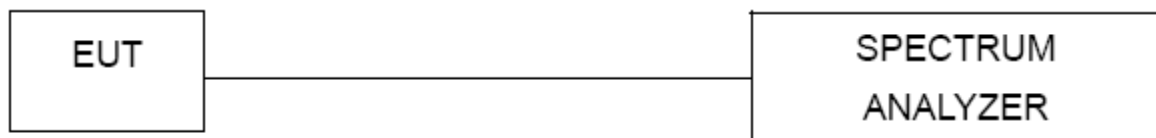
7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8 LIST OF MEASURING EQUIPMENTS

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC001340	980555	2020/4/11	2021/4/10
2	Preamplifier	EMCI	EMC02325B	980217	2020/4/11	2021/4/10
3	Preamplifier	EMCI	EMC012645B	980267	2020/4/11	2021/4/10
4	Test Cable	EMCI	EMC104-SM-SM-800	150207	2020/4/11	2021/4/10
5	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2020/4/11	2021/4/10
6	Test Cable	EMCI	EMC-SM-SM-7000	180408	2020/4/11	2021/4/10
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	2020/3/25	2021/3/24
8	Signal Analyzer	Agilent	N9010A	MY56480554	2019/6/6	2020/6/5
9	Loop Ant	EMCO	EMCI-LPA600	274	2019/5/31	2020/5/30
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2019/6/10	2020/6/9
11	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	000992	2019/5/29	2020/5/28
12	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0508	2019/5/29	2020/5/28

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP40	100129	2019/5/23	2020/5/22

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2487A	6K00004714	2019/6/20	2020/6/19
2	Power Sensor	Anritsu	MA2491A	1725282	2019/6/20	2020/6/19

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP40	100129	2019/5/23	2020/5/22

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP40	100129	2019/5/23	2020/5/22

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

9 EUT TEST PHOTO

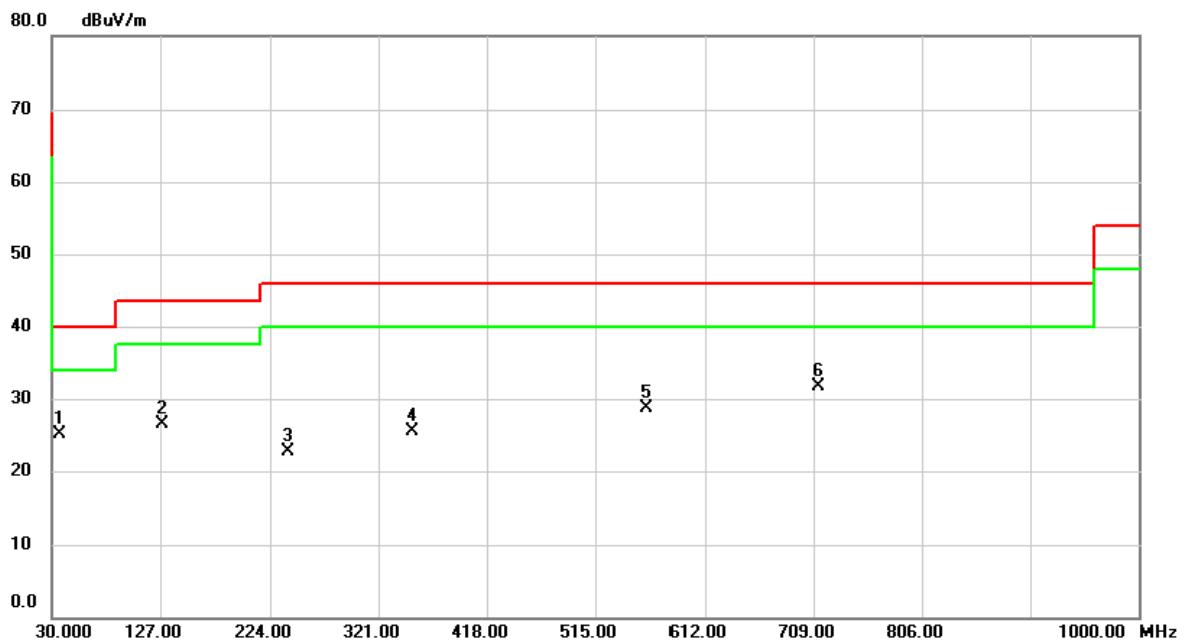
Please refer to document Appendix No.: TP-2002T042-FCCP-1 (APPENDIX-TEST PHOTOS).

10 EUT PHOTOS

Please refer to document Appendix No.: EP-2002T042-1 (APPENDIX-EUT PHOTOS).

APPENDIX A RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	TX Mode_Antenna Group I_2405MHz_CH11	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Vertical

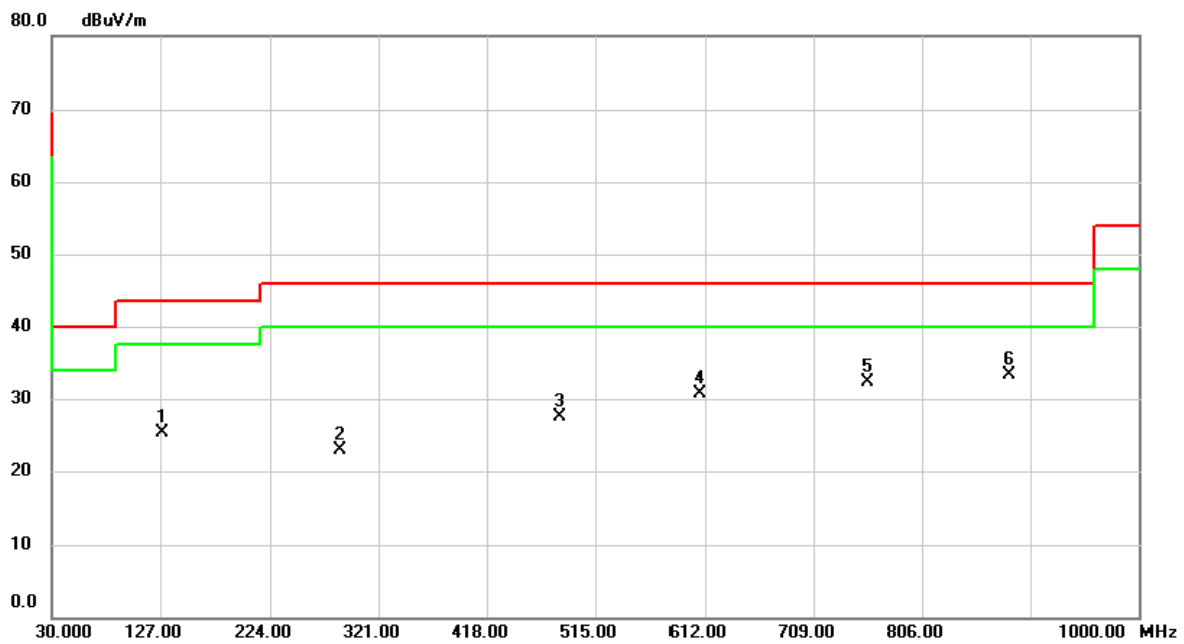


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		36.7900	34.25	-9.09	25.16	40.00	-14.84	peak	
2		128.9400	36.76	-10.33	26.43	43.50	-17.07	peak	
3		239.5200	31.75	-9.06	22.69	46.00	-23.31	peak	
4		351.0700	31.60	-6.01	25.59	46.00	-20.41	peak	
5		560.5900	29.80	-1.00	28.80	46.00	-17.20	peak	
6	*	712.8800	29.80	1.87	31.67	46.00	-14.33	peak	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2405MHz_CH11	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal

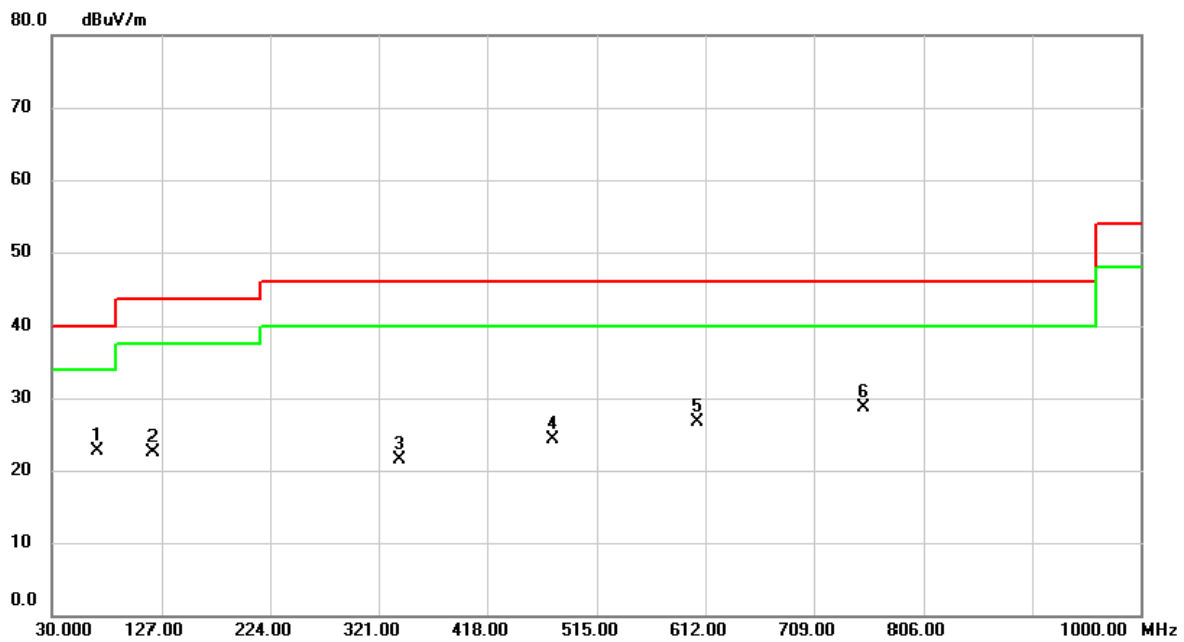


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		128.9400	35.73	-10.33	25.40	43.50	-18.10	peak	
2		286.0800	30.36	-7.53	22.83	46.00	-23.17	peak	
3		482.9900	30.44	-2.92	27.52	46.00	-18.48	peak	
4		607.1500	30.43	0.18	30.61	46.00	-15.39	peak	
5		757.5000	29.58	2.64	32.22	46.00	-13.78	peak	
6	*	883.6000	29.07	4.21	33.28	46.00	-12.72	peak	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2475MHz_CH25	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Vertical

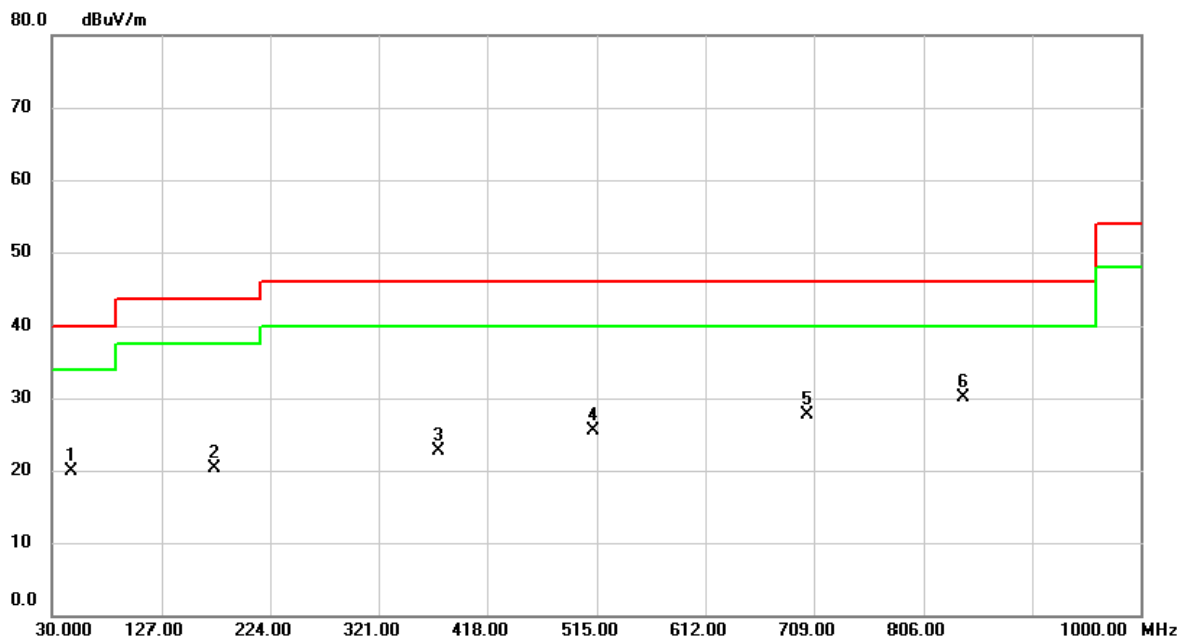


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	70.7400	36.81	-14.01	22.80	40.00	-17.20	peak	
2		120.2100	36.15	-13.57	22.58	43.50	-20.92	peak	
3		339.4300	31.31	-9.80	21.51	46.00	-24.49	peak	
4		475.2300	30.59	-6.24	24.35	46.00	-21.65	peak	
5		605.2100	30.63	-3.89	26.74	46.00	-19.26	peak	
6		753.6200	30.26	-1.64	28.62	46.00	-17.38	peak	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2475MHz_CH25	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal



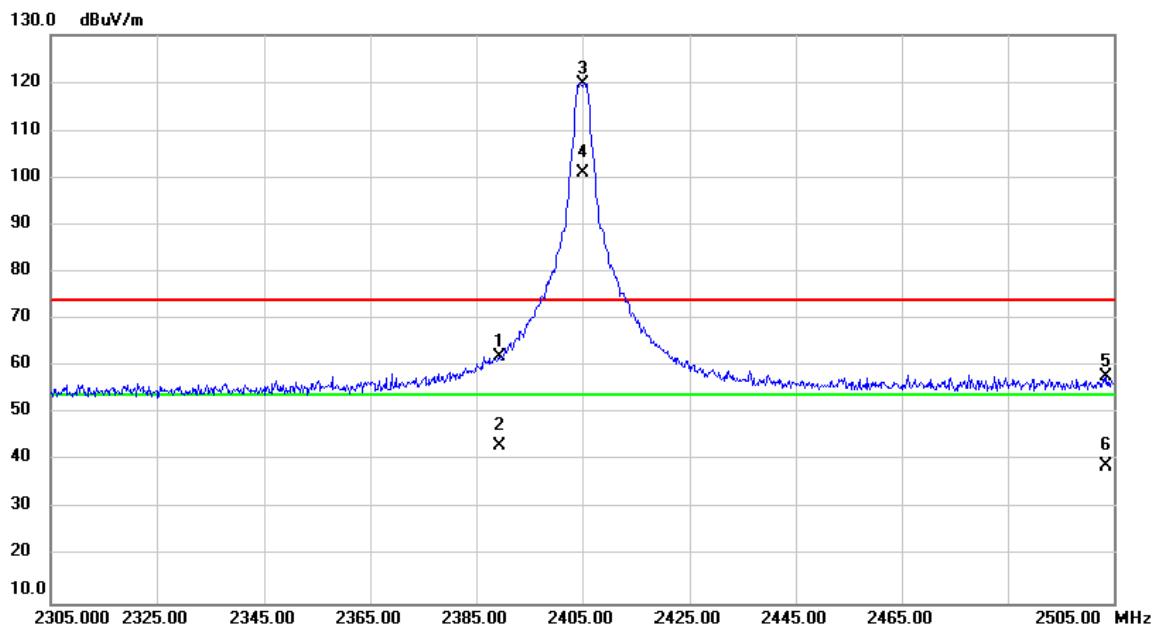
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		47.4600	31.42	-11.47	19.95	40.00	-20.05	peak	
2		174.5300	32.45	-12.15	20.30	43.50	-23.20	peak	
3		374.3500	31.48	-8.71	22.77	46.00	-23.23	peak	
4		512.0900	30.97	-5.40	25.57	46.00	-20.43	peak	
5		703.1800	30.10	-2.35	27.75	46.00	-18.25	peak	
6	*	840.9200	30.71	-0.67	30.04	46.00	-15.96	peak	

REMARKS:

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

APPENDIX B RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	TX Mode_Antenna Group I_2405MHz_CH11	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal



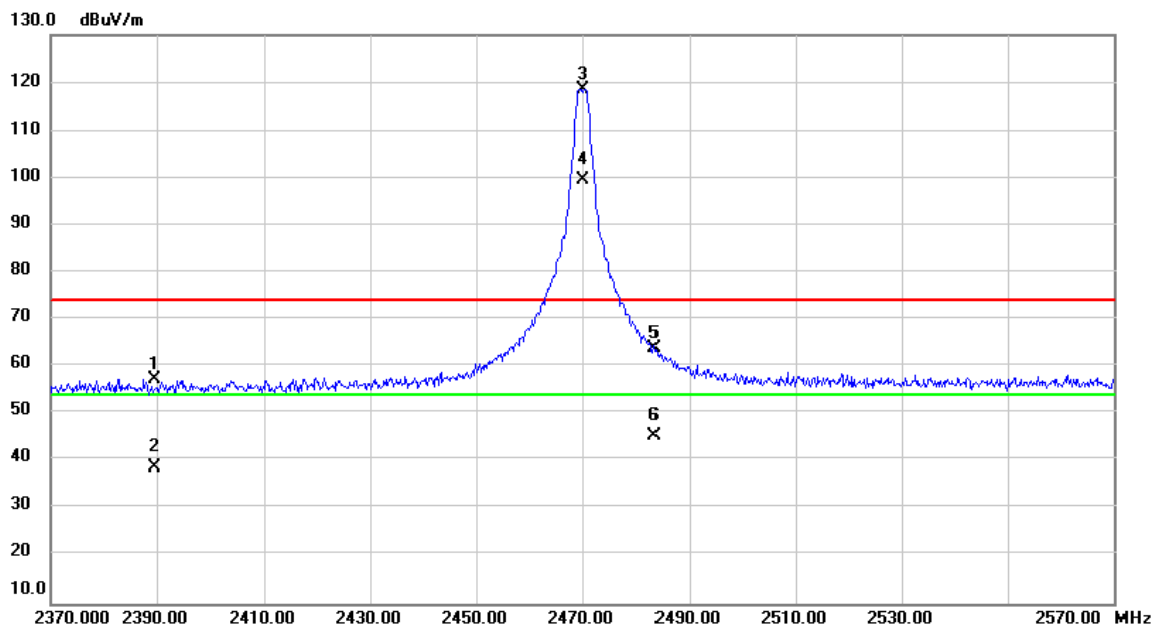
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.400	30.62	31.38	62.00	74.00	-12.00	peak	
2		2389.400	62.00	-18.27	43.73	54.00	-10.82	AVG	
3	X	2405.000	88.33	31.44	119.77	74.00	45.77	peak	No Limit
4	*	2405.000	119.77	-18.27	101.50	54.00	46.95	AVG	No Limit
5		2503.600	25.91	31.83	57.74	74.00	-16.26	peak	
6		2503.600	57.74	-18.27	39.47	54.00	-15.08	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group I_2470MHz_CH24	Tested Date	2020/3/20
Test Voltage	DC 3.6V	Polarization	Horizontal



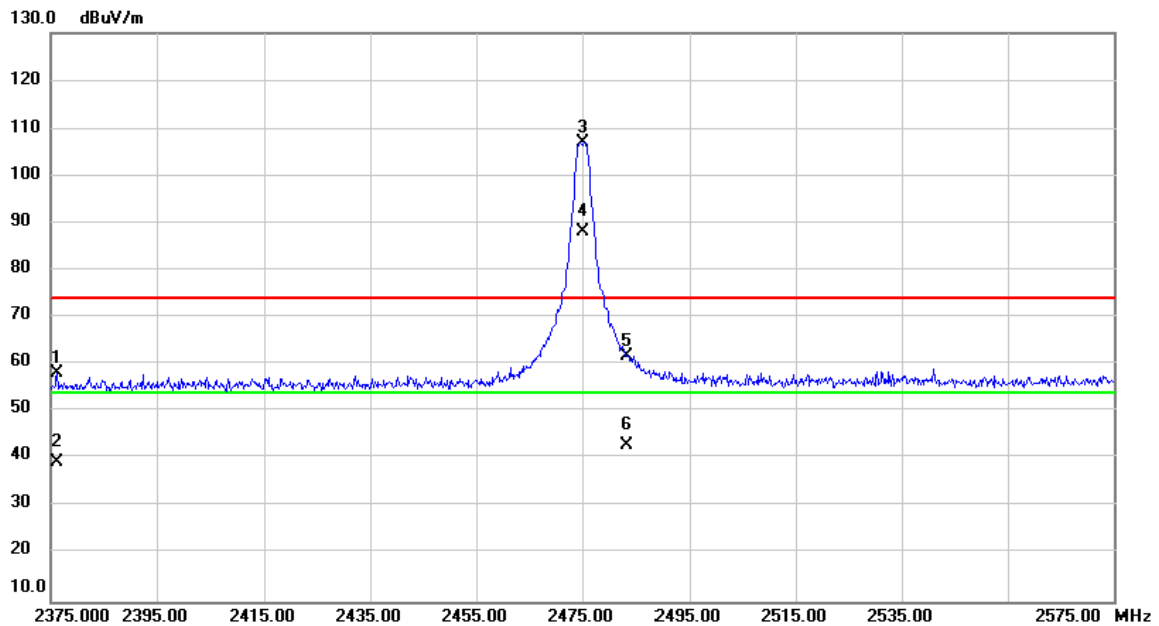
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2389.680	25.99	31.38	57.37	74.00	-16.63	peak	
2	2389.680	57.37	-18.27	39.10	54.00	-15.45	AVG	
3 X	2470.000	86.80	31.70	118.50	74.00	44.50	peak	No Limit
4 *	2470.000	118.50	-18.27	100.23	54.00	45.68	AVG	No Limit
5	2483.600	32.20	31.76	63.96	74.00	-10.04	peak	
6	2483.600	63.96	-18.27	45.69	54.00	-8.86	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group I_2475MHz_CH25	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal

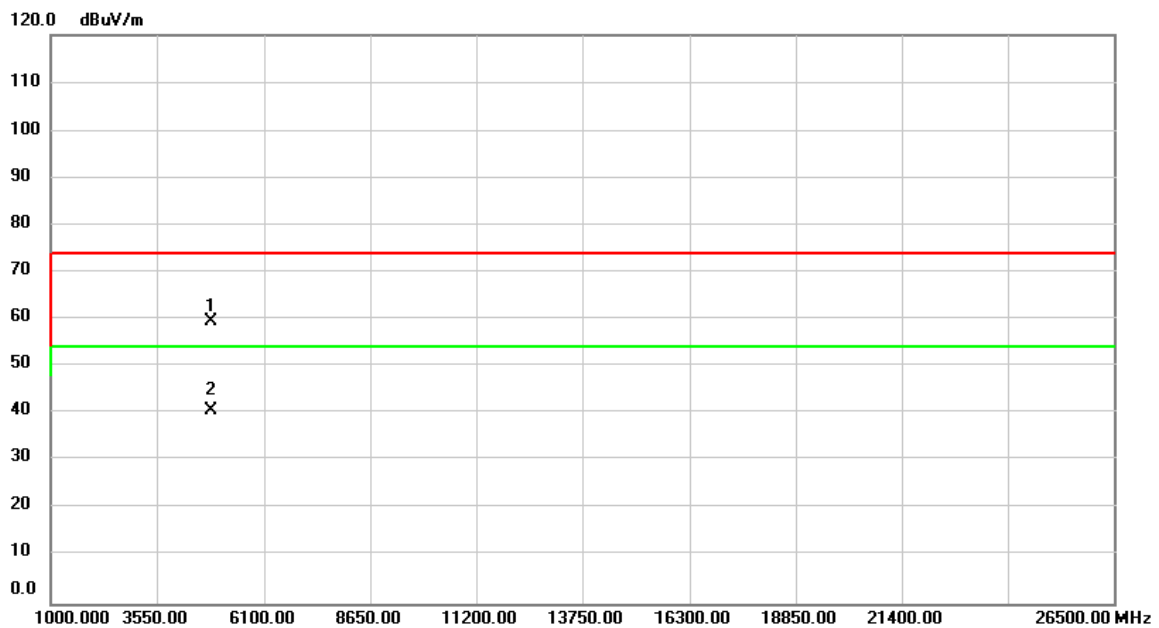


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2376.200	26.78	31.32	58.10	74.00	-15.90	peak	
2		2376.200	58.10	-18.27	39.83	54.00	-14.72	AVG	
3	X	2475.000	75.28	31.72	107.00	74.00	33.00	peak	No Limit
4	*	2475.000	107.00	-18.27	88.73	54.00	34.18	AVG	No Limit
5		2483.500	30.00	31.76	61.76	74.00	-12.24	peak	
6		2483.500	61.76	-18.27	43.49	54.00	-11.06	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2405MHz_CH11	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Vertical

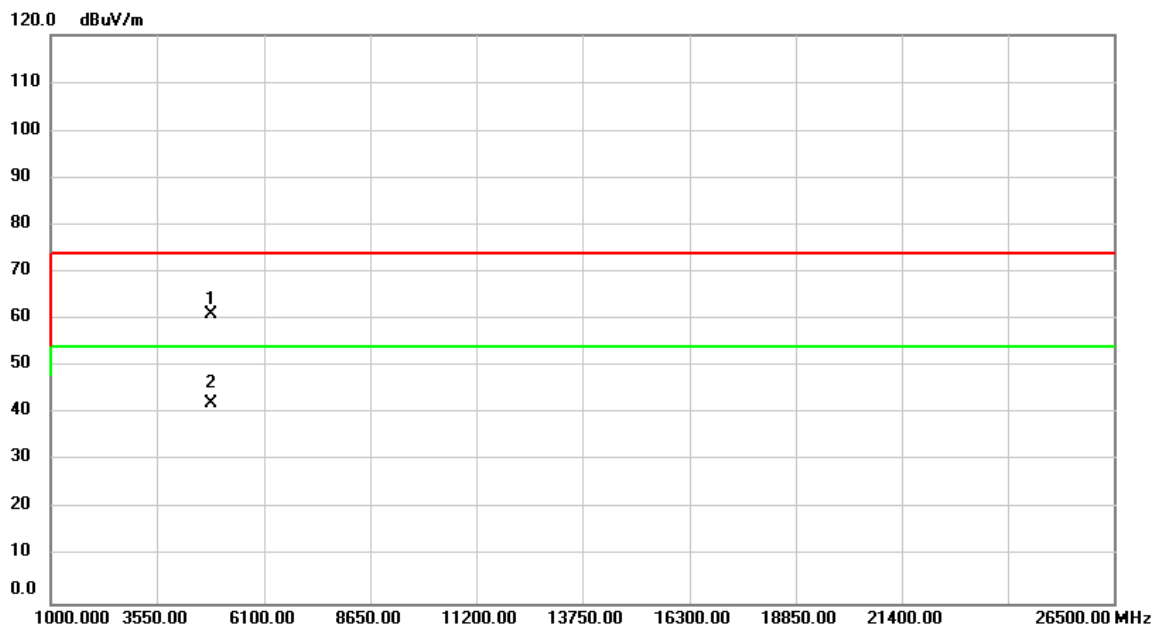


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4810.000	69.42	-9.82	59.60	74.00	-14.40	peak	
2	*	4810.000	59.60	-18.27	41.33	54.00	-13.22	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2405MHz_CH11	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal

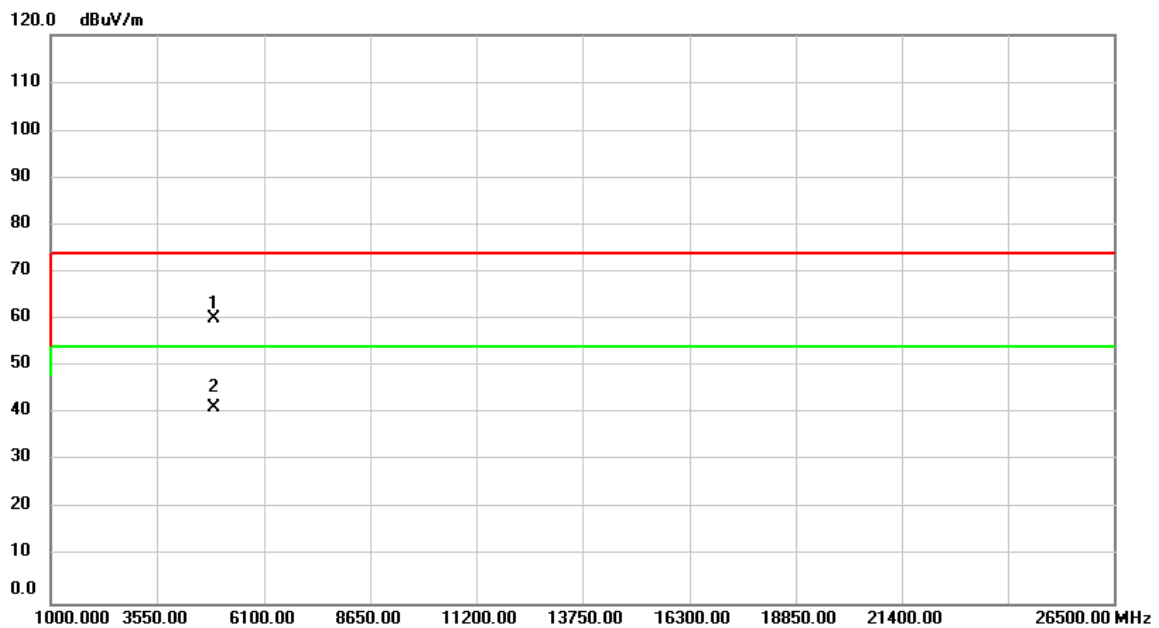


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4810.000	70.91	-9.82	61.09	74.00	-12.91	peak	
2	*	4810.000	61.09	-18.27	42.82	54.00	-11.73	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2440MHz_CH18	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Vertical

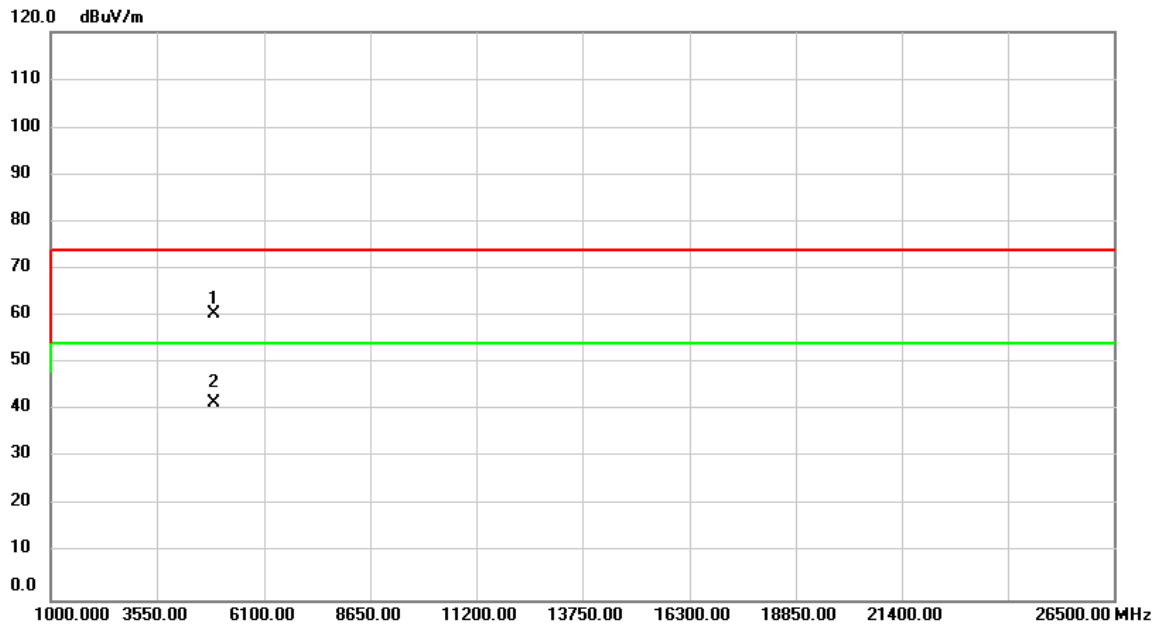


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	69.79	-9.67	60.12	74.00	-13.88	peak	
2	*	4880.000	60.12	-18.27	41.85	54.00	-12.70	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2440MHz_CH18	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal



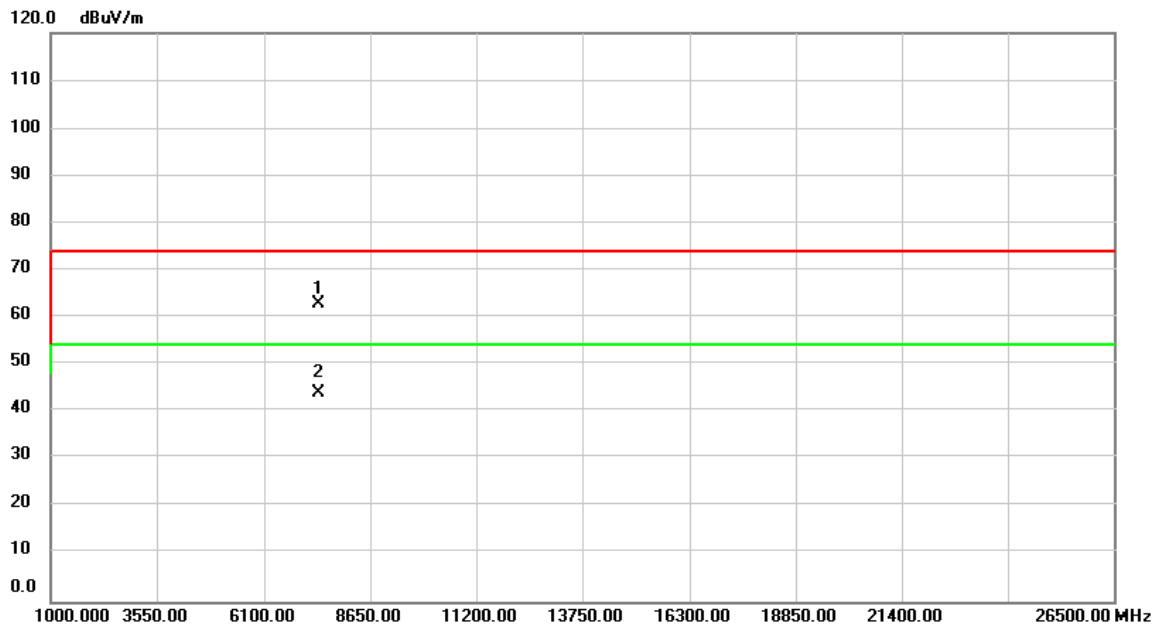
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	70.06	-9.67	60.39	74.00	-13.61	peak	
2	*	4880.000	60.39	-18.27	42.12	54.00	-12.43	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group I_2470MHz_CH24	Tested Date	2020/3/23
Test Voltage	DC 3.6V	Polarization	Vertical

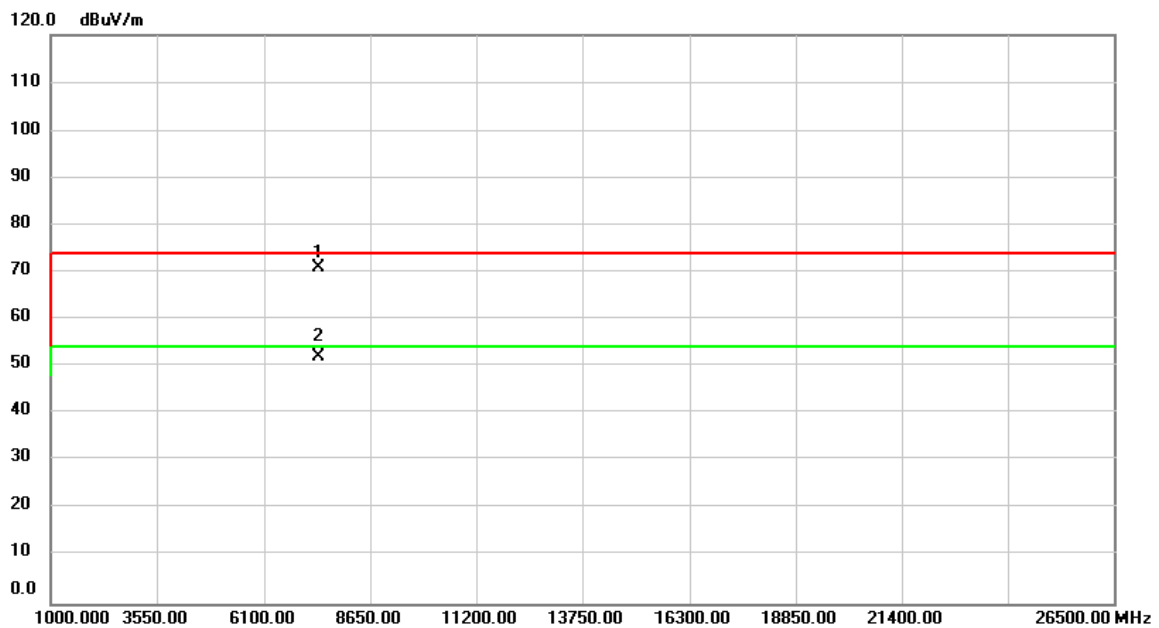


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7410.000	66.10	-3.28	62.82	74.00	-11.18	peak	
2	*	7410.000	62.82	-18.27	44.55	54.00	-10.00	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2470MHz_CH24	Tested Date	2020/3/23
Test Voltage	DC 3.6V	Polarization	Horizontal

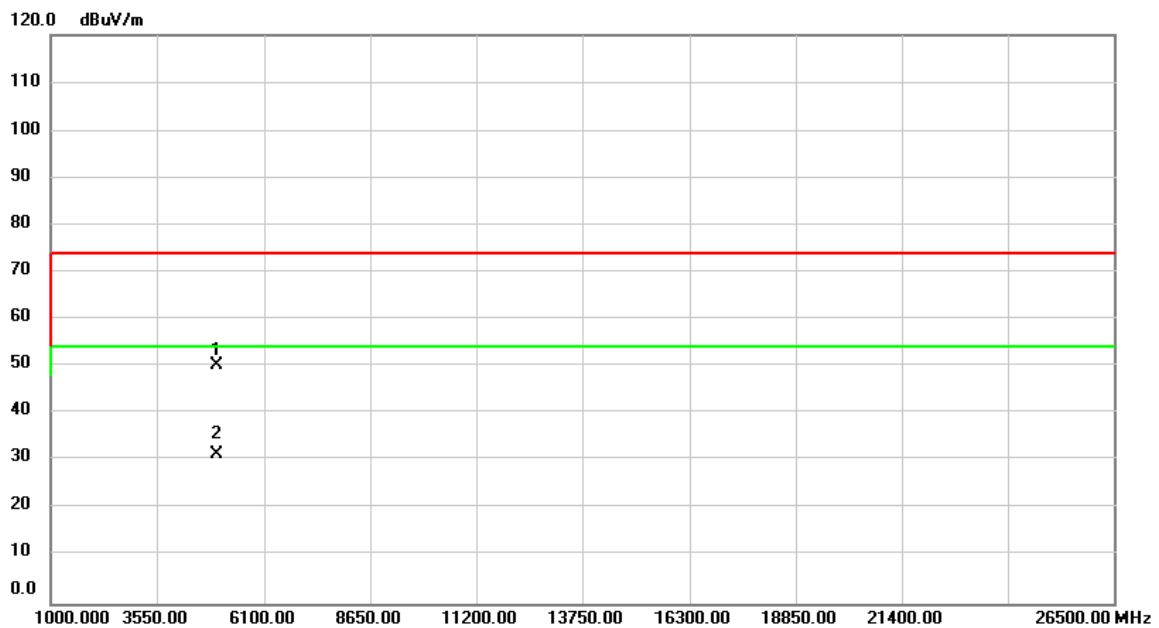


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7410.000	74.10	-3.28	70.82	74.00	-3.18	peak	
2	*	7410.000	70.82	-18.27	52.55	54.00	-2.00	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2475MHz_CH25	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Vertical

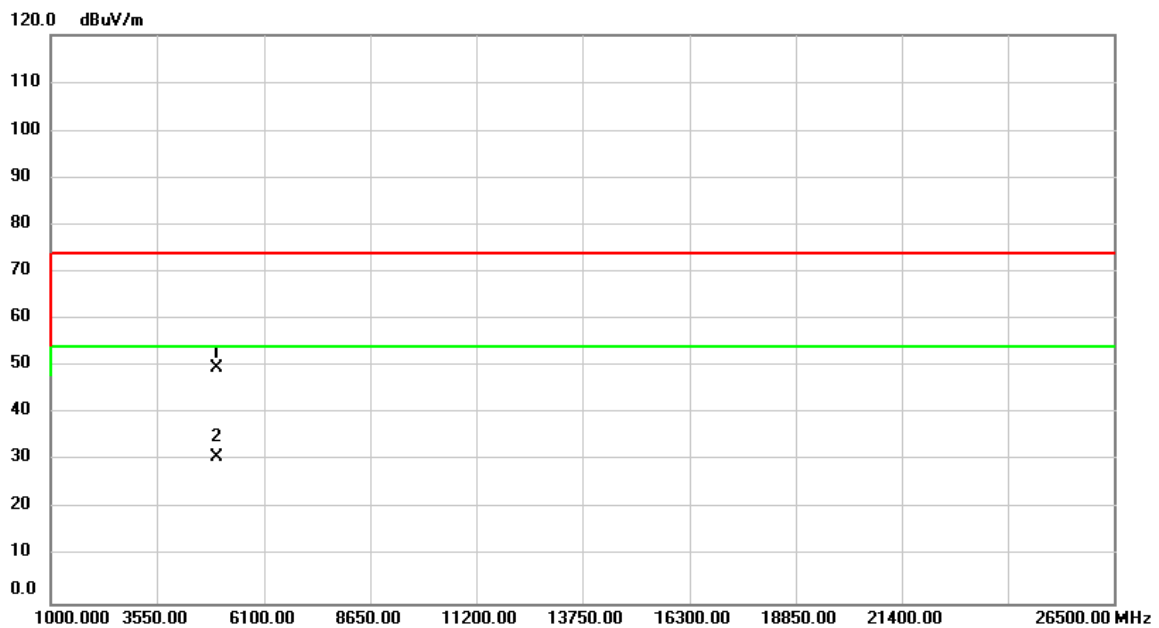


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4950.000	59.81	-9.51	50.30	74.00	-23.70	peak	
2	*	4950.000	50.30	-18.27	32.03	54.00	-22.52	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group I_2475MHz_CH25	Tested Date	2020/2/24
Test Voltage	DC 3.6V	Polarization	Horizontal

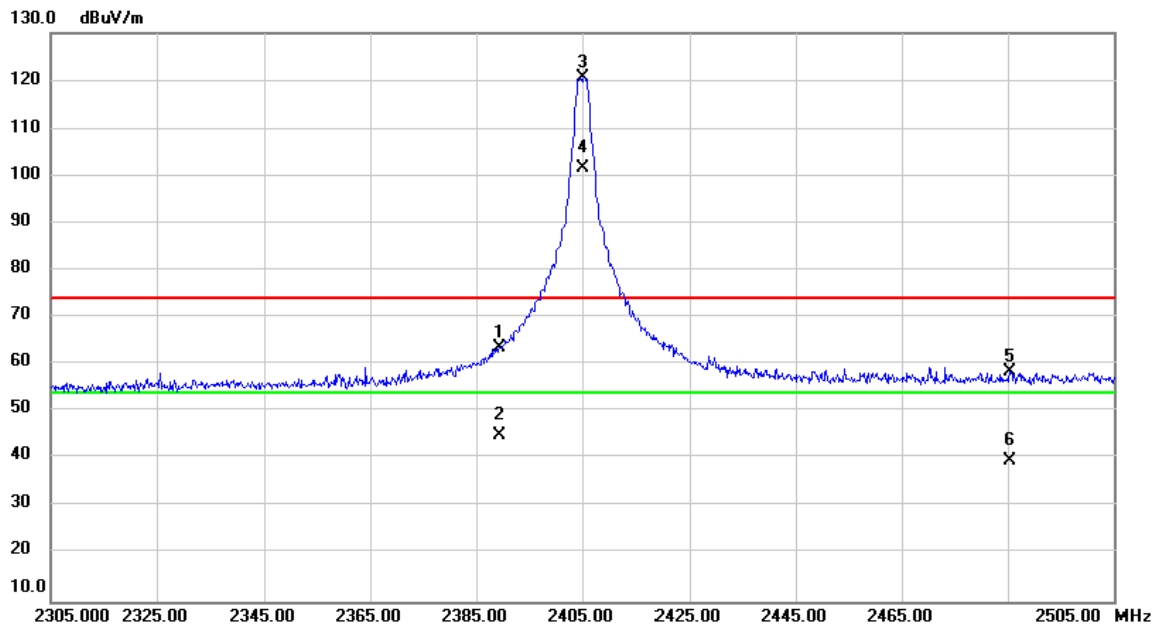


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4950.000	59.10	-9.51	49.59	74.00	-24.41	peak	
2	*	4950.000	49.59	-18.27	31.32	54.00	-23.23	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2405MHz_CH11	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal



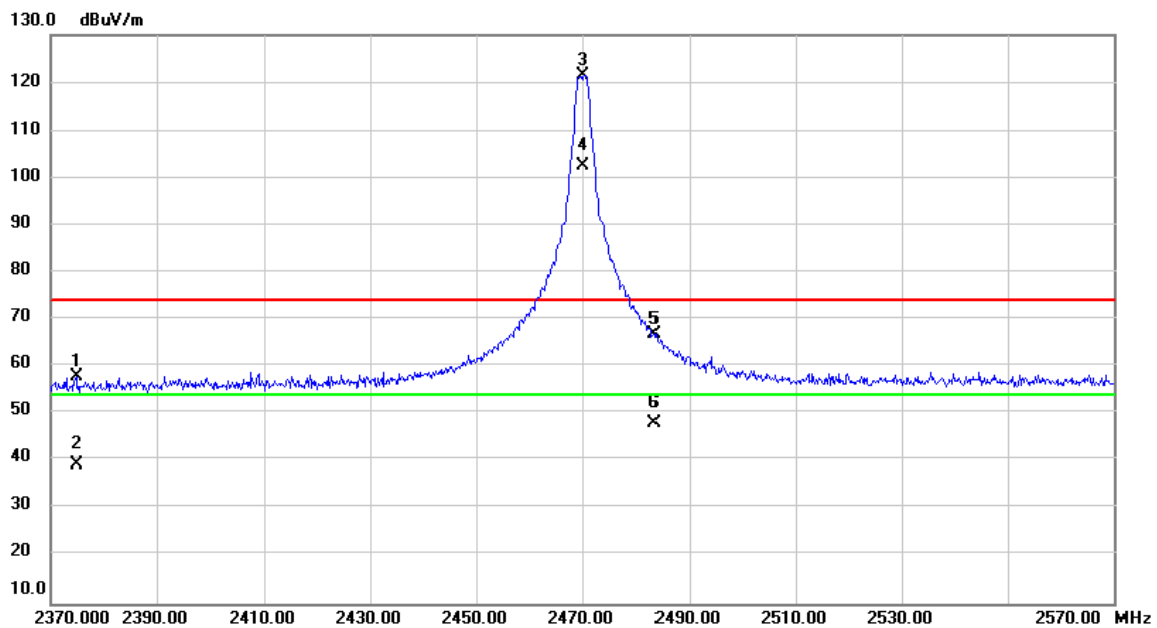
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.400	32.40	31.25	63.65	74.00	-10.35	peak	
2		2389.400	63.65	-18.27	45.38	54.00	-9.17	AVG	
3	X	2405.000	89.12	31.32	120.44	74.00	46.44	peak	No Limit
4	*	2405.000	120.44	-18.27	102.17	54.00	47.62	AVG	No Limit
5		2485.400	26.77	31.66	58.43	74.00	-15.57	peak	
6		2485.400	58.43	-18.27	40.16	54.00	-14.39	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group II_2470MHz_CH24	Tested Date	2020/4/16
Test Voltage	DC 3.6V	Polarization	Horizontal



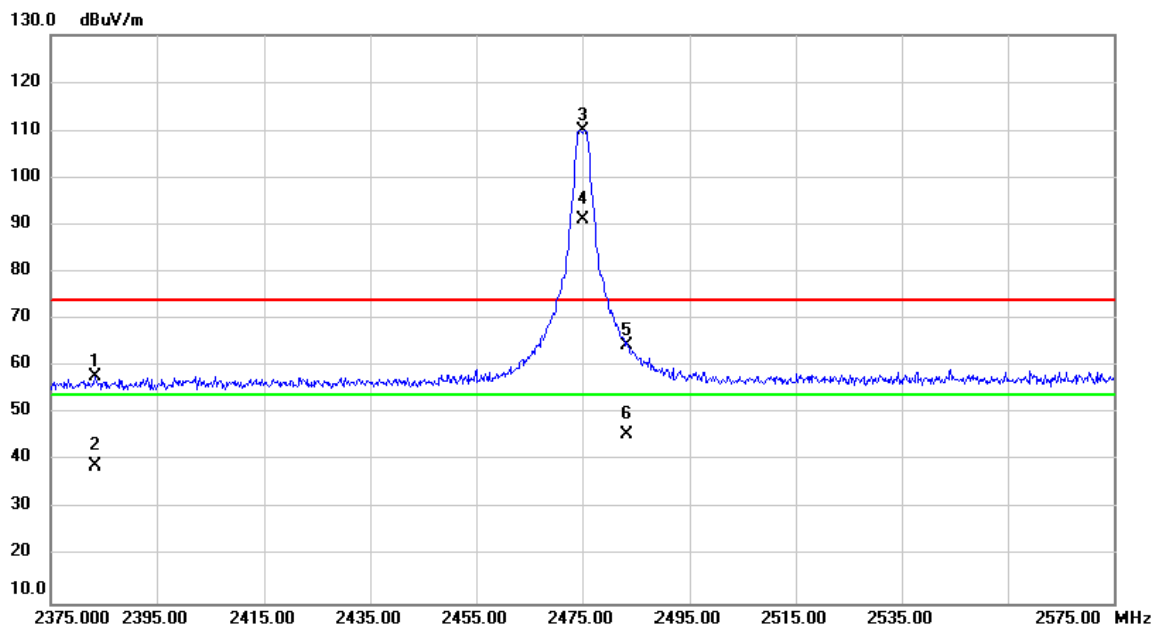
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2374.800	26.68	31.32	58.00	74.00	-16.00	peak	
2		2374.800	58.00	-18.27	39.73	54.00	-14.82	AVG	
3	X	2470.000	89.64	31.70	121.34	74.00	47.34	peak	No Limit
4	*	2470.000	121.34	-18.27	103.07	54.00	48.52	AVG	No Limit
5		2483.500	35.08	31.76	66.84	74.00	-7.16	peak	
6		2483.500	66.84	-18.27	48.57	54.00	-5.98	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group II_2475MHz_CH25	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal



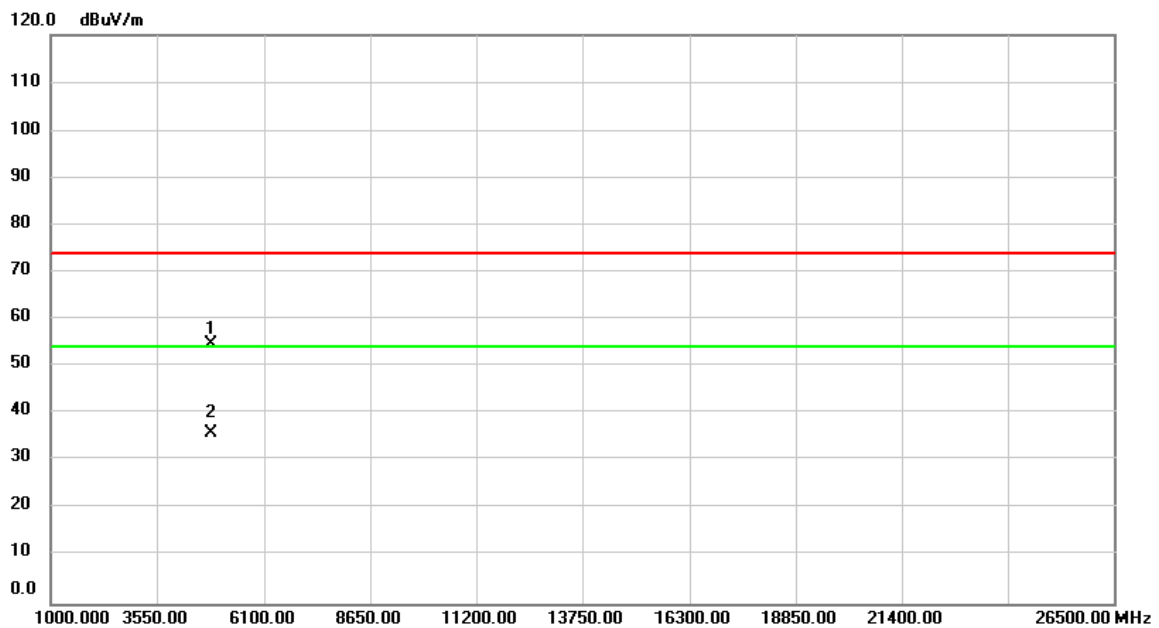
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2383.400	26.65	31.22	57.87	74.00	-16.13	peak	
2		2383.400	57.87	-18.27	39.60	54.00	-14.95	AVG	
3	X	2475.000	78.42	31.62	110.04	74.00	36.04	peak	No Limit
4	*	2475.000	110.04	-18.27	91.77	54.00	37.22	AVG	No Limit
5		2483.500	32.68	31.66	64.34	74.00	-9.66	peak	
6		2483.500	64.34	-18.27	46.07	54.00	-8.48	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group II_2405MHz_CH11	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Vertical

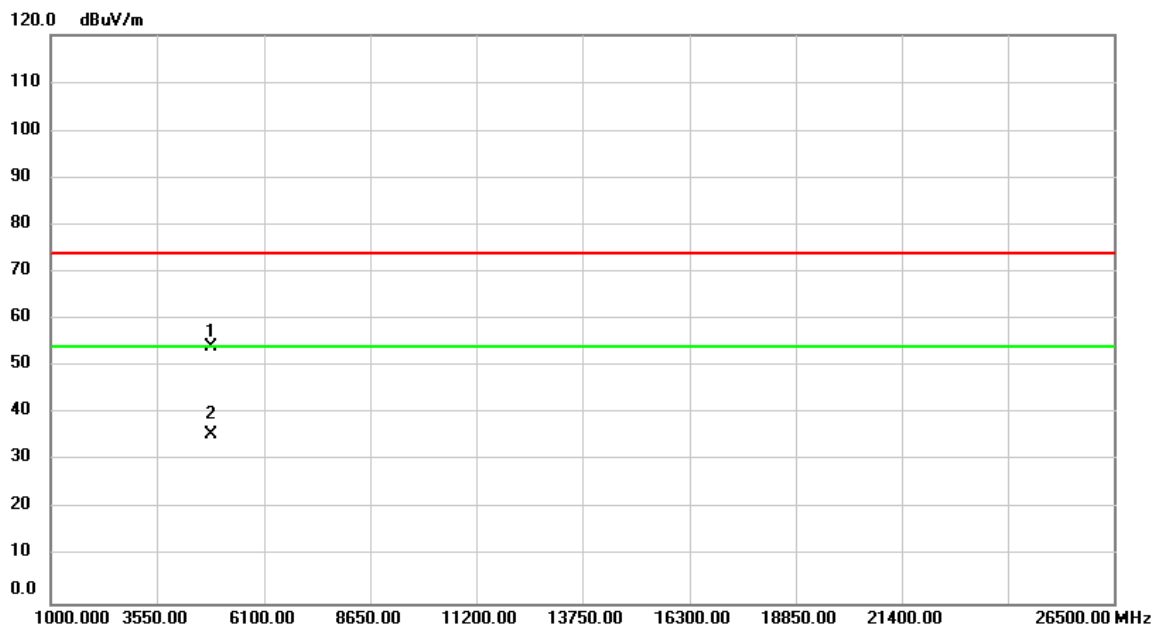


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4810.000	65.34	-10.56	54.78	74.00	-19.22	peak	
2	*	4810.000	54.78	-18.27	36.51	54.00	-18.04	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2405MHz_CH11	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal

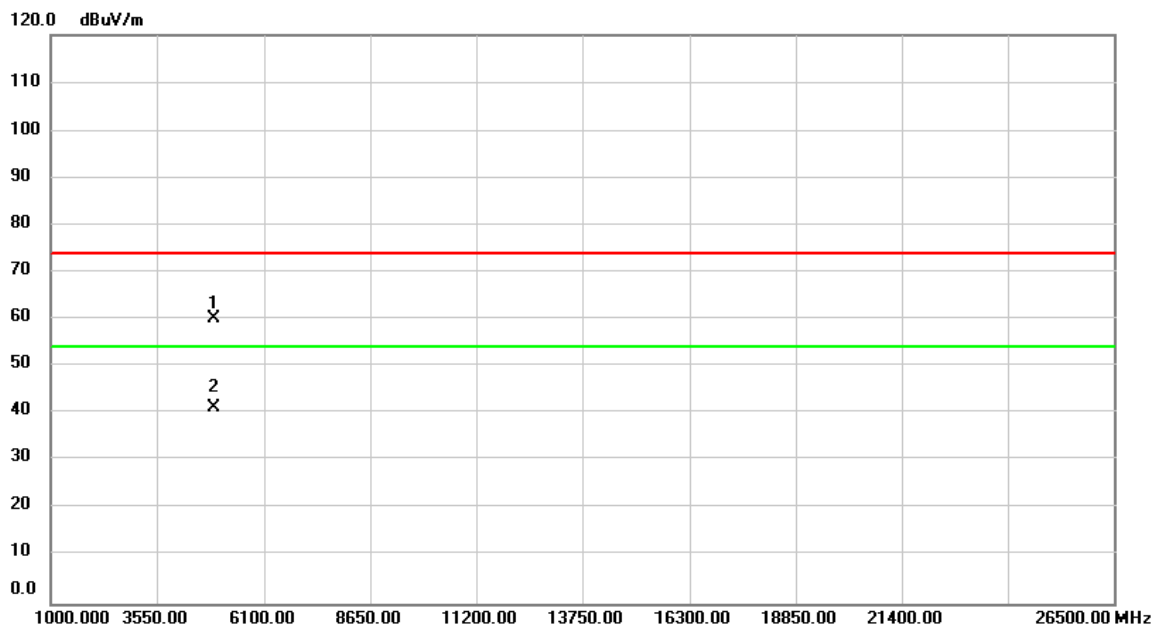


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4810.000	64.80	-10.56	54.24	74.00	-19.76	peak	
2	*	4810.000	54.24	-18.27	35.97	54.00	-18.58	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2440MHz_CH18	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Vertical

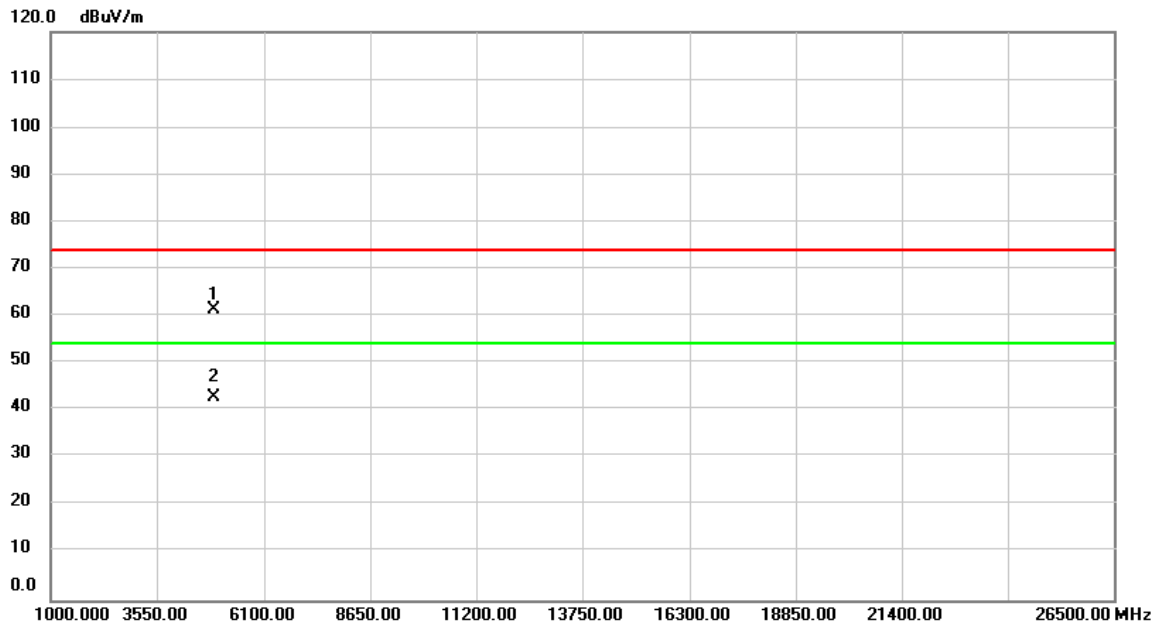


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	70.57	-10.39	60.18	74.00	-13.82	peak	
2	*	4880.000	60.18	-18.27	41.91	54.00	-12.64	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2440MHz_CH18	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal



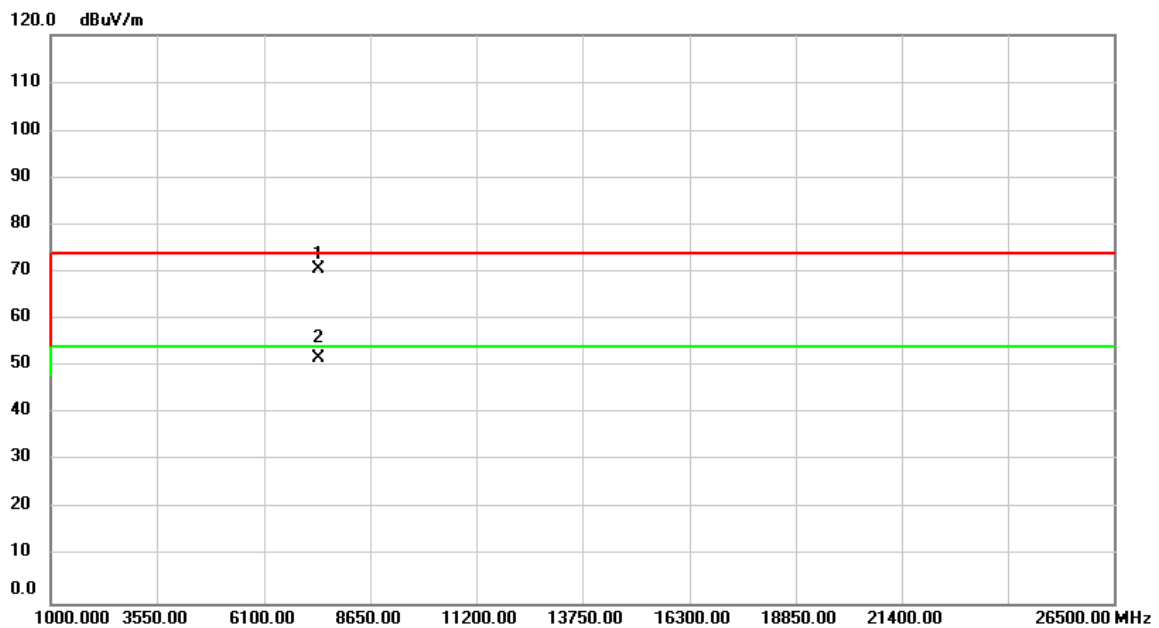
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	71.86	-10.39	61.47	74.00	-12.53	peak	
2	*	4880.000	61.47	-18.27	43.20	54.00	-11.35	AVG	

REMARKS:

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

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

Test Mode	TX Mode_Antenna Group II_2470MHz_CH24	Tested Date	2020/4/16
Test Voltage	DC 3.6V	Polarization	Vertical

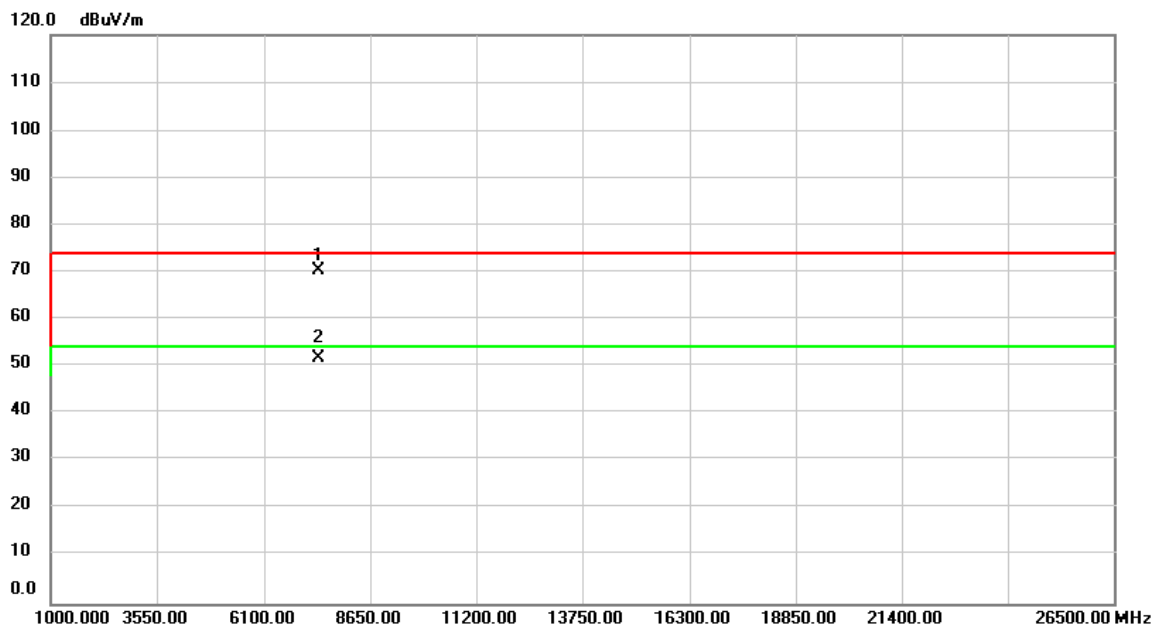


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7410.000	73.29	-2.68	70.61	74.00	-3.39	peak	
2	*	7410.000	70.61	-18.27	52.34	54.00	-2.21	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2470MHz_CH24	Tested Date	2020/4/16
Test Voltage	DC 3.6V	Polarization	Horizontal

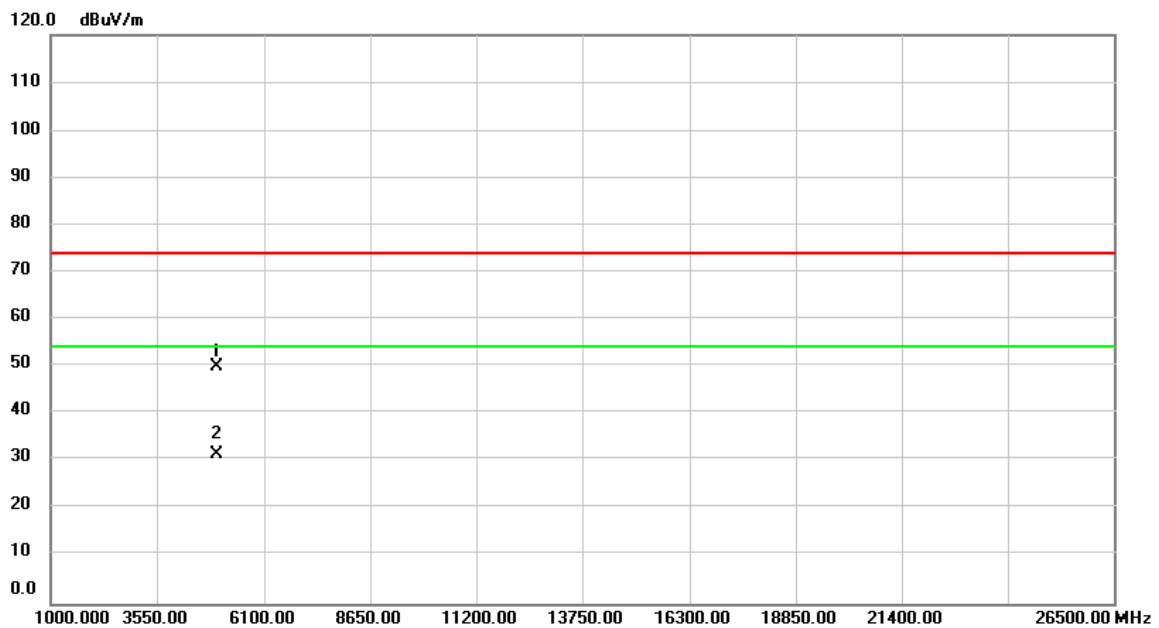


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7410.000	73.14	-2.68	70.46	74.00	-3.54	peak	
2	*	7410.000	70.46	-18.27	52.19	54.00	-2.36	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2475MHz_CH25	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Vertical

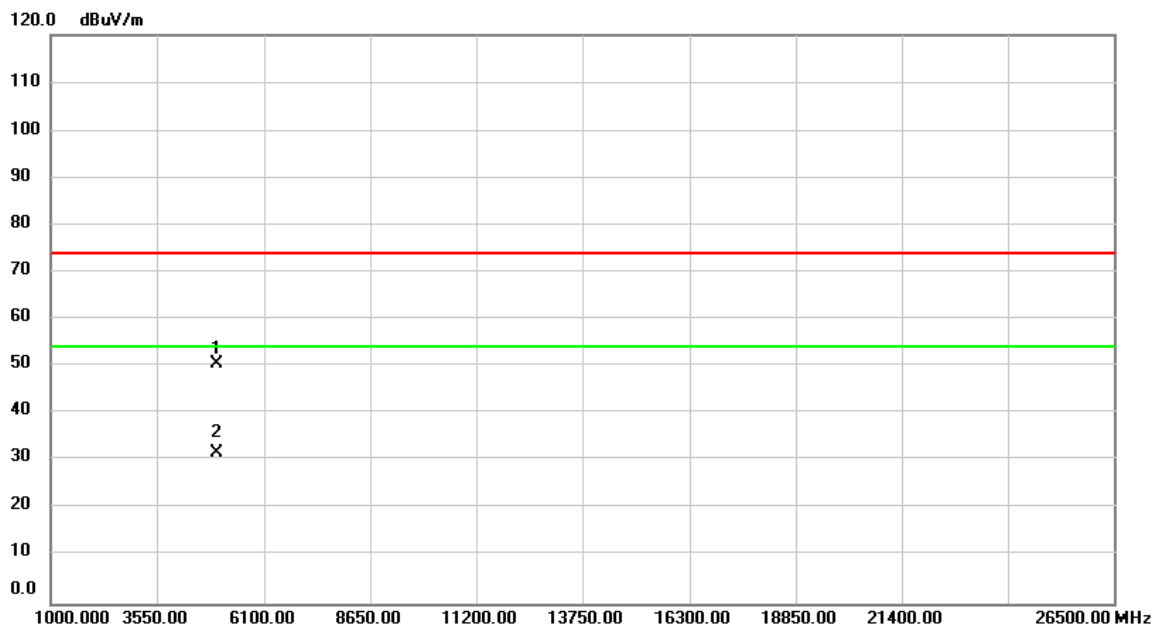


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4950.000	60.26	-10.22	50.04	74.00	-23.96	peak	
2	*	4950.000	50.04	-18.27	31.77	54.00	-22.78	AVG	

REMARKS:

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

Test Mode	TX Mode_Antenna Group II_2475MHz_CH25	Tested Date	2020/3/2
Test Voltage	DC 3.6V	Polarization	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4950.000	60.66	-10.22	50.44	74.00	-23.56	peak	
2	*	4950.000	50.44	-18.27	32.17	54.00	-22.38	AVG	

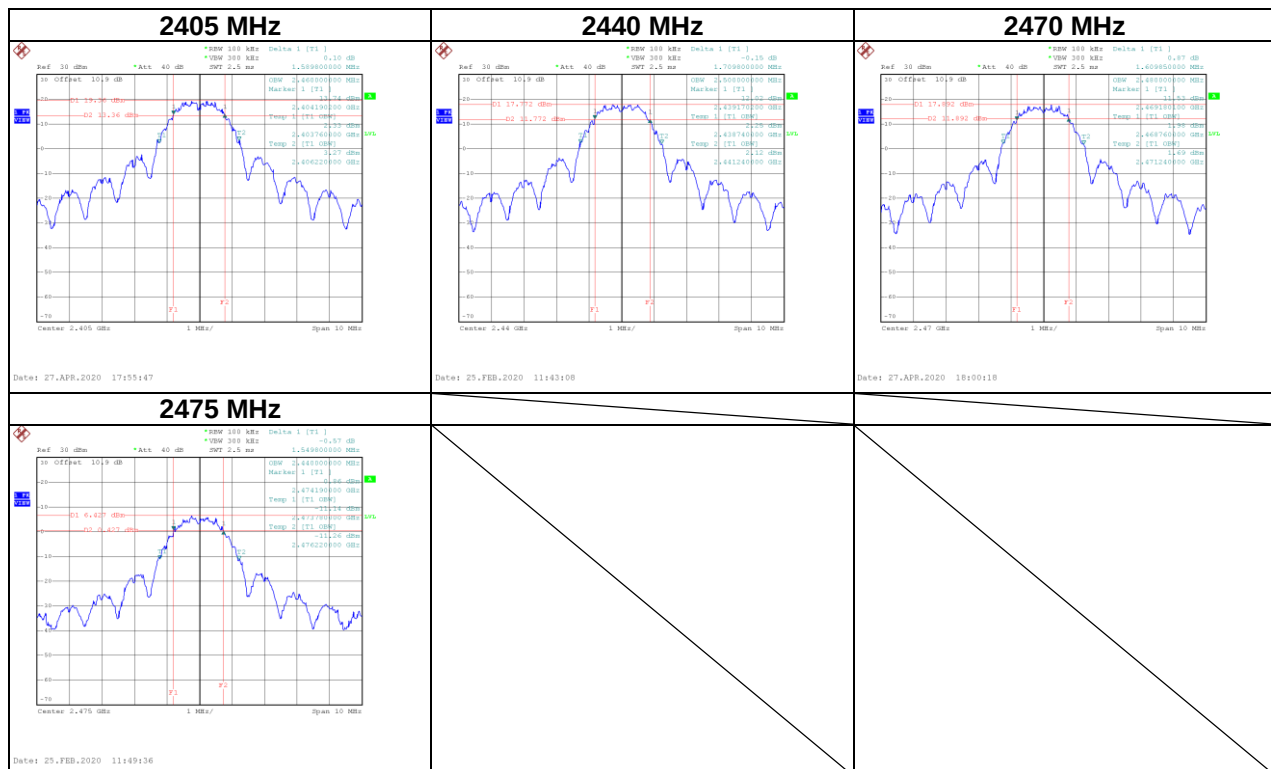
REMARKS:

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

APPENDIX C BANDWIDTH

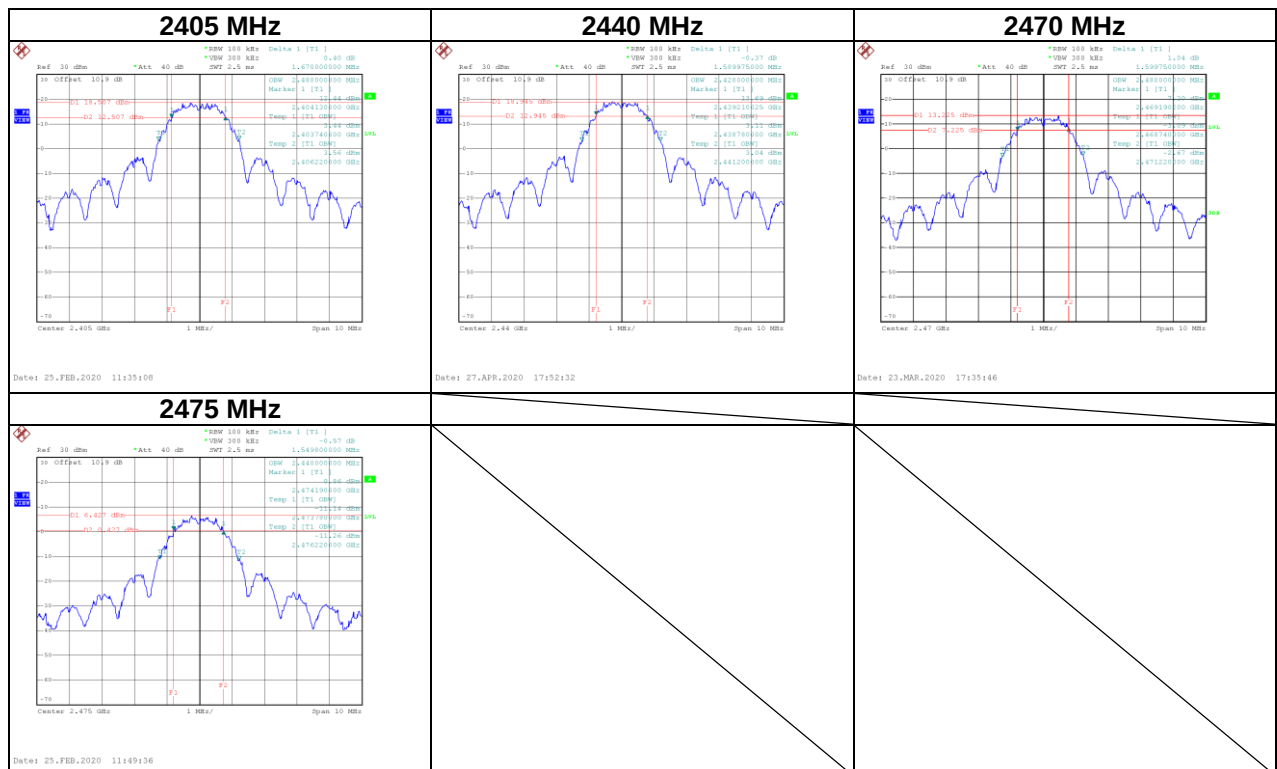
Test Mode:	TX Mode_Antenna Group I
Test Voltage	DC 3.6V

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2405	1.59	2.46	500	Pass
2440	1.71	2.50	500	Pass
2470	1.61	2.48	500	Pass
2475	1.55	2.44	500	Pass



Test Mode:	TX Mode_Antenna Group II
Test Voltage	DC 3.6V

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2405	1.67	2.48	500	Pass
2440	1.59	2.42	500	Pass
2470	1.60	2.48	500	Pass
2475	1.55	2.44	500	Pass



APPENDIX D OUTPUT POWER

Test Mode :	TX Mode_Antenna Group I	Tested Date	2020/4/27
Test Voltage	DC 3.6V		

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2405	23.49	0.2234	30.00	1.0000	Pass
2440	23.02	0.2004	30.00	1.0000	Pass
2470	21.59	0.1442	30.00	1.0000	Pass
2475	10.86	0.0122	30.00	1.0000	Pass

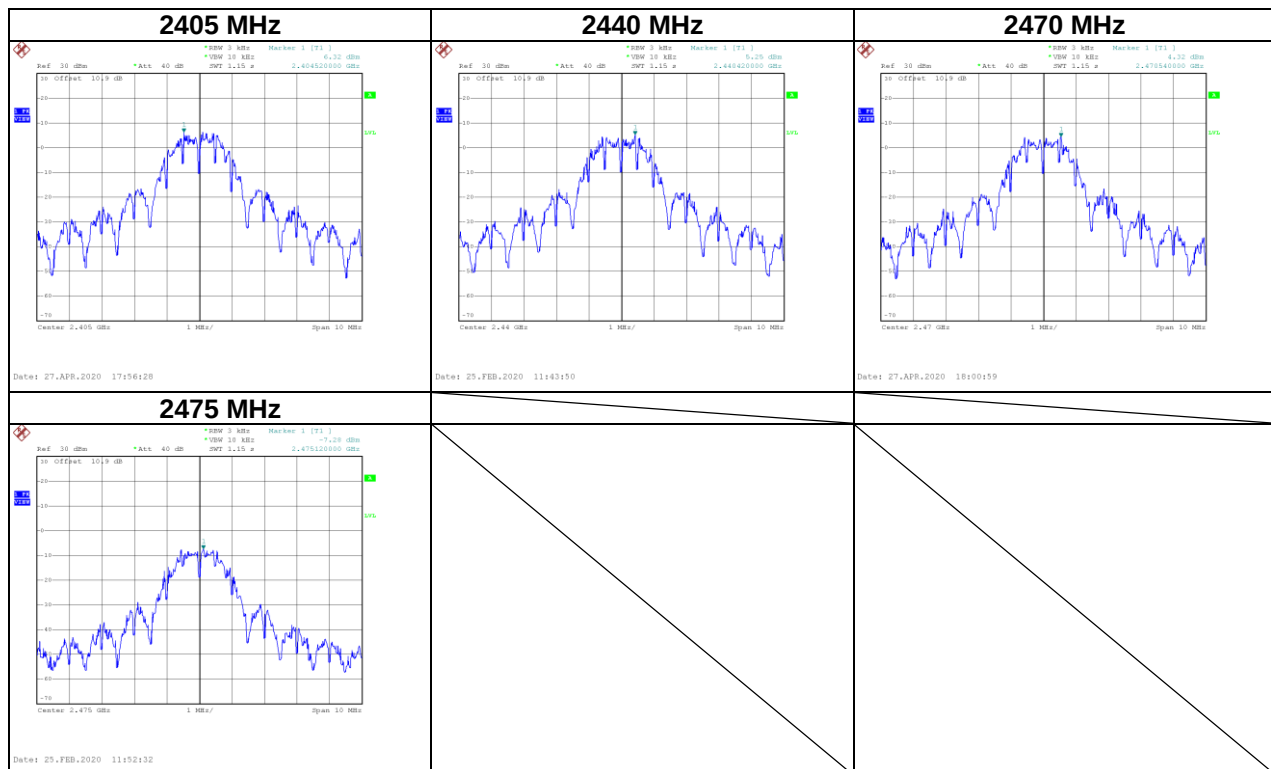
Test Mode :	TX Mode_Antenna Group II	Tested Date	2020/4/27
Test Voltage	DC 3.6V		

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2405	21.79	0.1510	30.00	1.0000	Pass
2440	23.31	0.2143	30.00	1.0000	Pass
2470	20.46	0.1112	30.00	1.0000	Pass
2475	10.86	0.0122	30.00	1.0000	Pass

APPENDIX E POWER SPECTRAL DENSITY TEST

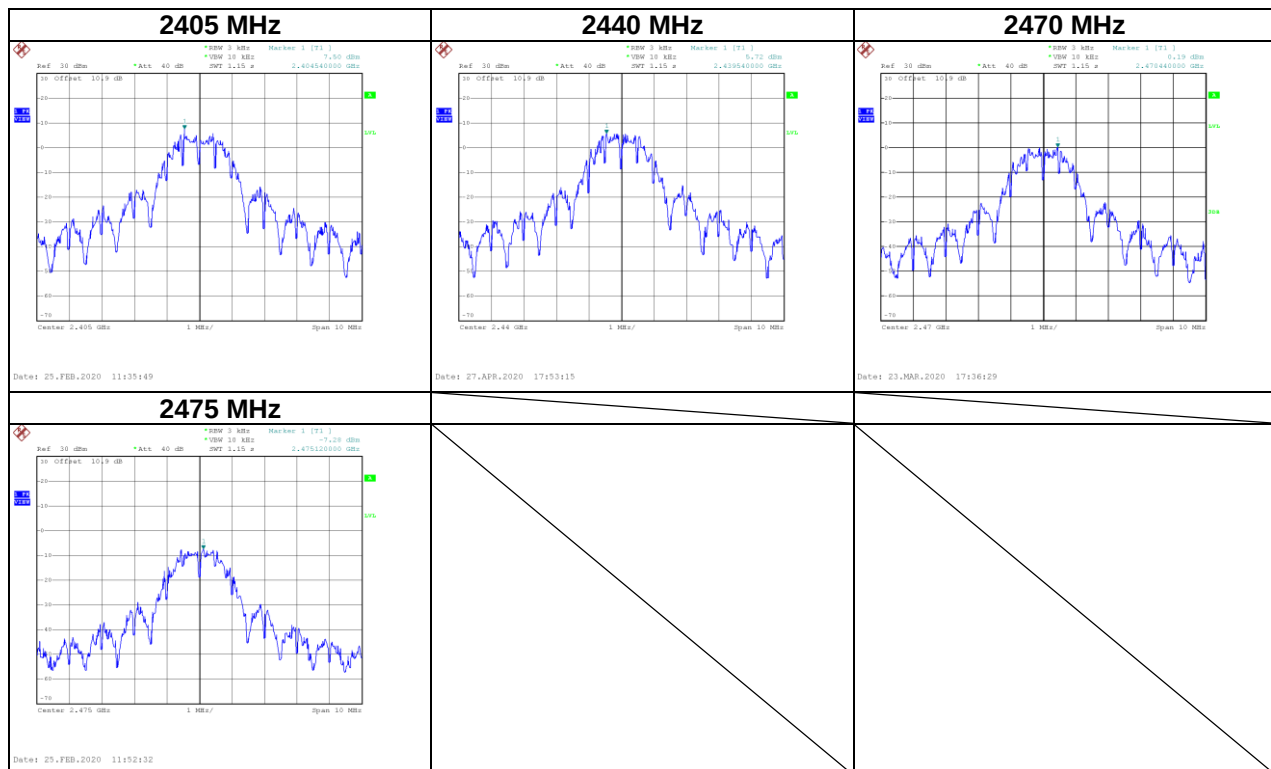
Test Mode:	TX Mode_Antenna Group I
Test Voltage	DC 3.6V

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2405	6.32	8	Pass
2440	5.25	8	Pass
2470	4.32	8	Pass
2475	-7.28	8	Pass



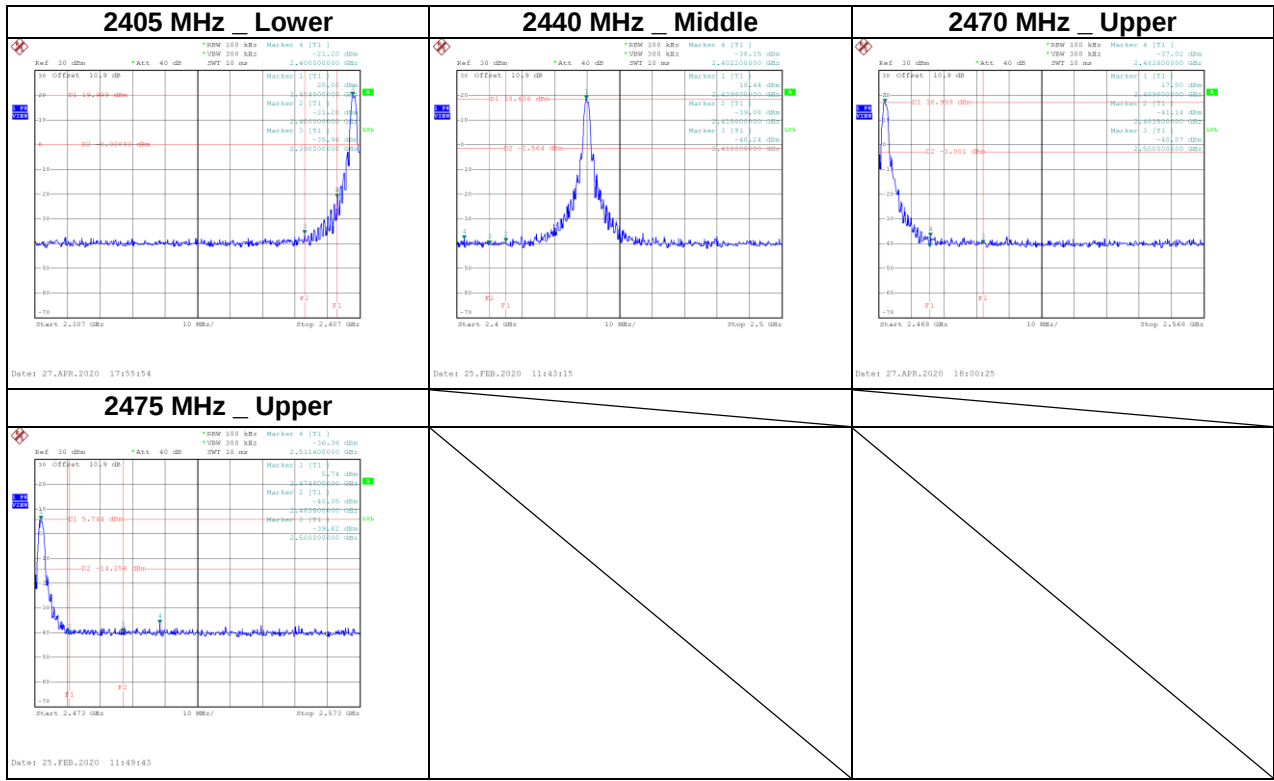
Test Mode:	TX Mode_Antenna Group II
Test Voltage	DC 3.6V

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2405	7.50	8	Pass
2440	5.72	8	Pass
2470	0.19	8	Pass
2475	-7.28	8	Pass

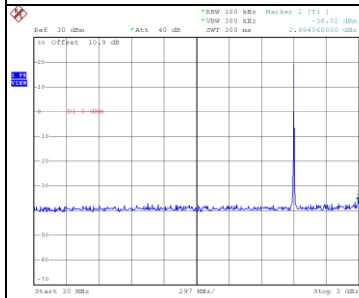


APPENDIX F ANTENNA CONDUCTED SPURIOUS EMISSION

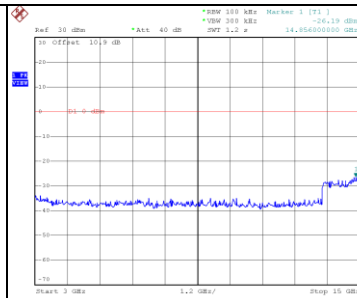
Test Mode :	TX Mode_Antenna Group I
Test Voltage	DC 3.6V



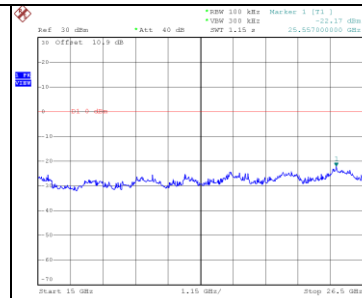
2405 MHz – 10th Harmonics



Date: 27.APR.2020 17:56:07

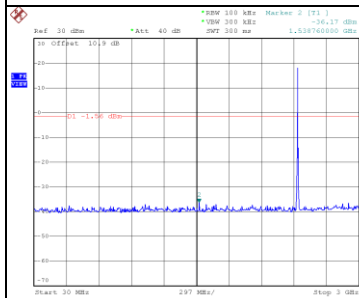


Date: 27.APR.2020 17:56:13

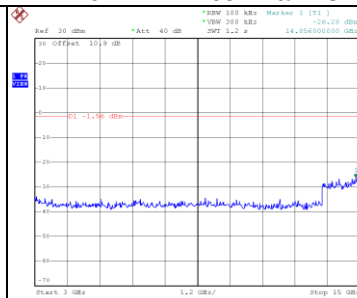


Date: 27.APR.2020 17:56:20

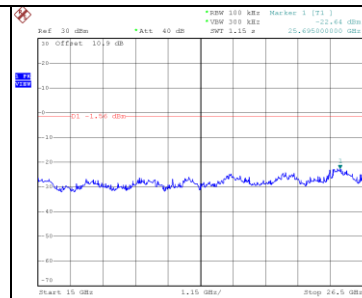
2440 MHz – 10th Harmonics



Date: 25.FEB.2020 11:43:28

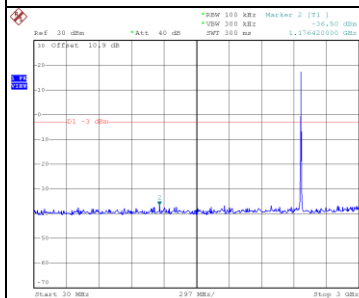


Date: 25.FEB.2020 11:43:35

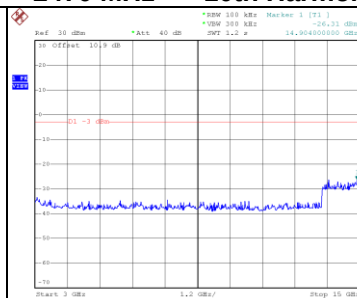


Date: 25.FEB.2020 11:43:41

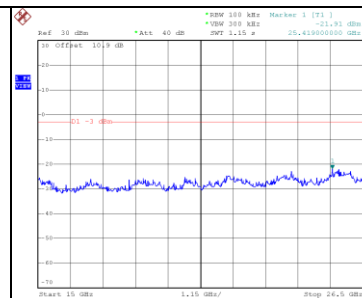
2470 MHz – 10th Harmonics



Date: 27.APR.2020 18:00:37

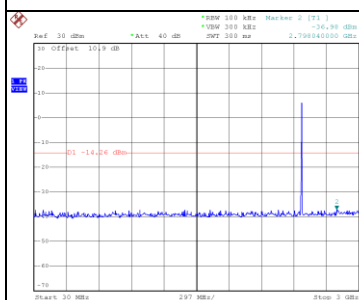


Date: 27.APR.2020 18:00:44

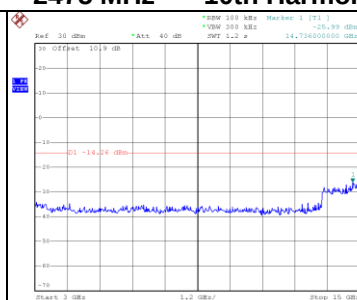


Date: 27.APR.2020 18:00:51

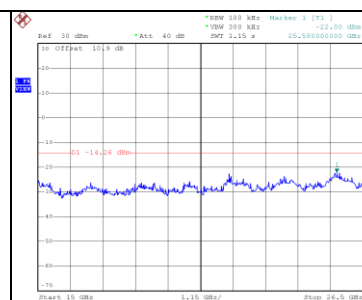
2475 MHz – 10th Harmonics



Date: 25.FEB.2020 11:49:55

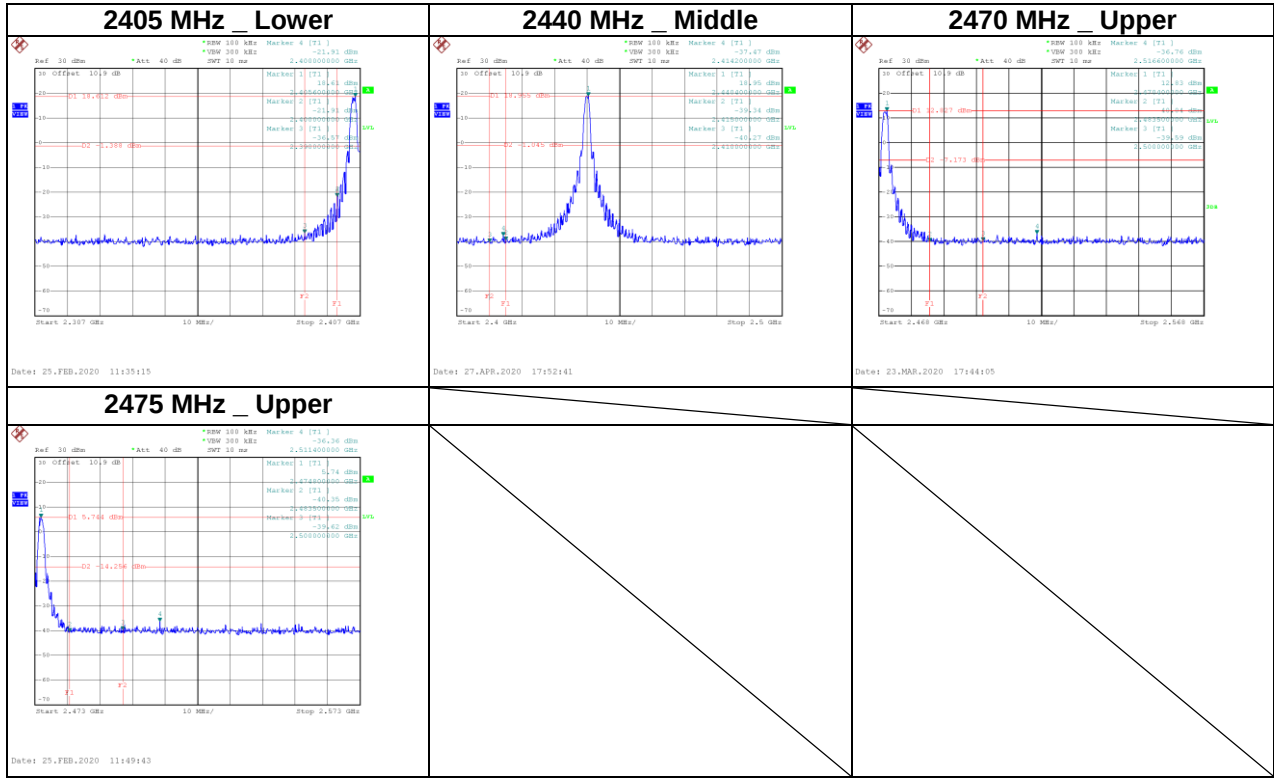


Date: 25.FEB.2020 11:50:02

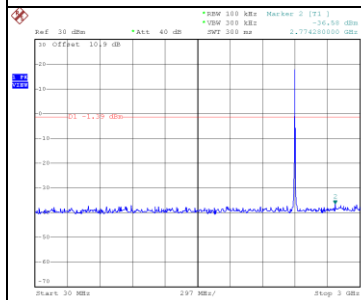


Date: 25.FEB.2020 11:50:09

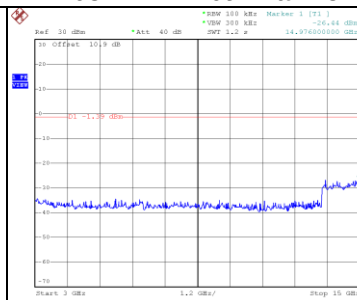
Test Mode :	TX Mode_Antenna Group II
Test Voltage	DC 3.6V



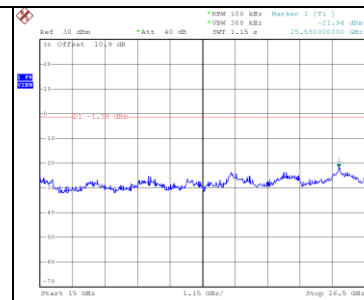
2405 MHz – 10th Harmonics



Date: 25.FEB.2020 11:35:28

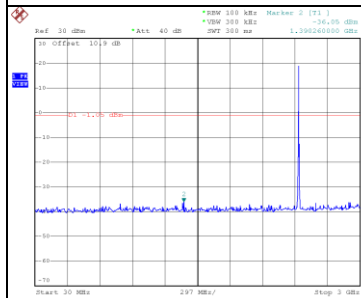


Date: 25.FEB.2020 11:35:34

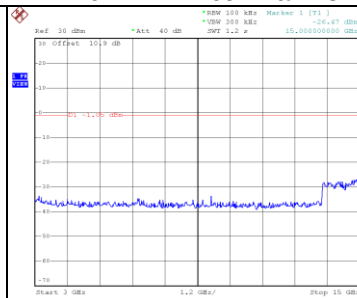


Date: 25.FEB.2020 11:35:41

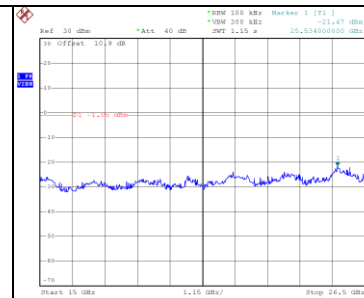
2440 MHz – 10th Harmonics



Date: 27.APR.2020 17:52:53

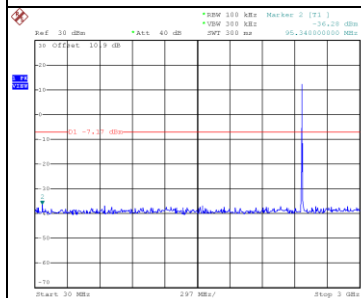


Date: 27.APR.2020 17:53:00

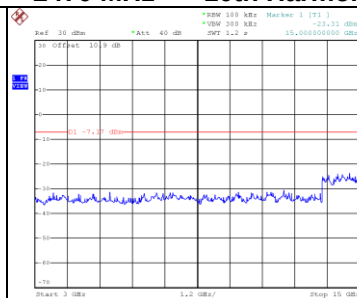


Date: 27.APR.2020 17:53:06

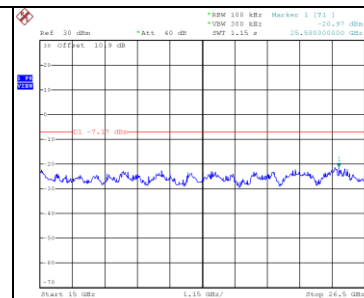
2470 MHz – 10th Harmonics



Date: 23.MAR.2020 17:44:18

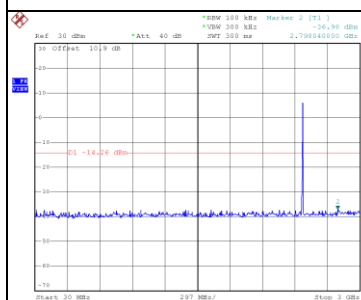


Date: 23.MAR.2020 17:44:25

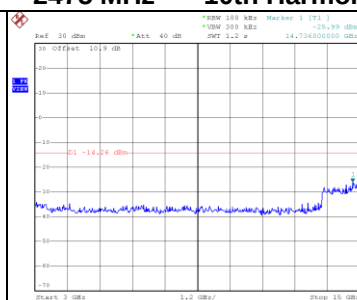


Date: 23.MAR.2020 17:44:32

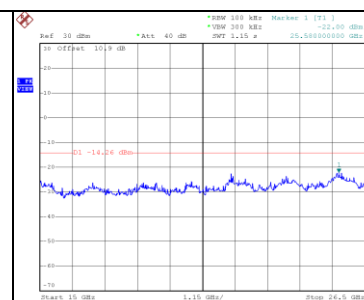
2475 MHz – 10th Harmonics



Date: 25.FEB.2020 11:49:55



Date: 25.FEB.2020 11:50:02



Date: 25.FEB.2020 11:50:09

End of Test Report