

TEST REPORT

of

FCC Part 15 Subpart C

Product: **Function board**
Brand: **CoreStar**
Main Model: **F215U**
Series Model: **N/A**
Model Difference: **N/A**
FCC ID: **2ANCG-F215U**
FCC Rule Part: **§15.247, Cat: DTS**
Reference: **ANSI C63.10: 2013**
KDB 558074 D01 v05r02
Applicant: **CoreStar Co., Ltd.**
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Test Performed by:



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Report No.: **ISL-23LR0029FC DTS**
Issue Date : **March 31, 2023**



FCC Registration Number: 487532

Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein. The uncertainty of the measurement does not include in consideration of the test result unless the customer required the determination of uncertainty via the agreement, regulation or standard document specification. This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory Corp.

VERIFICATION OF COMPLIANCE

Applicant: CoreStar Co., Ltd.
Equipment Under Test: Function board
Brand: CoreStar
Main Model: F215U
Series Model: N/A
Model Difference: N/A
FCC ID: 2ANCG-F215U
Date of Test: February 16, 2023 ~ March 31, 2023
Date of EUT Received: February 16, 2023
Test Frim TW0997

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC Part 15.247	Complied

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Test By: Barry Lee **Date:** March 31, 2023
Barry Lee / Senior Engineer

Prepared By: Gigi Yeh **Date:** March 31, 2023
Gigi Yeh / Senior Engineer

Approved By: Jerry Liu **Date:** March 31, 2023
Jerry Liu / Assistant Manager

Version

Version No.	Date	Description
00	March 31, 2023	Initial creation of document

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1. General

1.1 Description of EUT

General Information	
Product Name:	Function board
Brand Name:	CoreStar
Model Name:	F215U
Model Difference:	N/A
Temperature Range	-40°C to 85°C
Power Supply:	12V DC
WiFi Information	
WLAN Modular	MT6631
Frequency Range:	WLAN 2.4GHz Band 802.11b/g 2412MHz ~ 2462MH 802.11n(HT20) 2412MHz ~ 2462MH 802.11n(HT40) 2412MHz ~ 2452MH
Max Output Power:	2412MHz ~ 2472MHz: 15.92dBm
Channel number:	WLAN 2.4GHz Band 802.11b/g : 11ch 802.11n(HT20) : 11ch 802.11n(HT40) : 9ch
PMN (Product Marketing Name)	F215U
HVIN (Hardware Version Identification Number)	RC-F215U
FVIN (Firmware Version Identification Number)	4.14.141
Product SW/HW version	SW_V1.0/HW_V1.3
Test SW Version:	F215U Q0 V4.69 PBJ-V38.8839.lcm.10.1_debug
RFpower setting:	802.11b :19.5 802.11g:17.5 802.11 HT20:17.5 802.11 HT40:16.5 802.11a:16 802.11HT20 (5G):16 802.11HT40(5G)::16 802.11VHT20:16 802.11VHT40:16 802.11VHT80:16

	Antenna Type	Brand	Model	Peak Gain (dBi)	Frequency Range	Connector Type
1	PIFA	CoreStar	XBY00216	2400~2500MHz :0.69	2.4GHz	i-pex
2	PIFA	CoreStar	XBY00216	5150~5250MHz :1.24	5GHz	i-pex

1.2 Special Accessories

Not available for this EUT intended for grant.

1.3 Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 AC Line Conducted Emissions

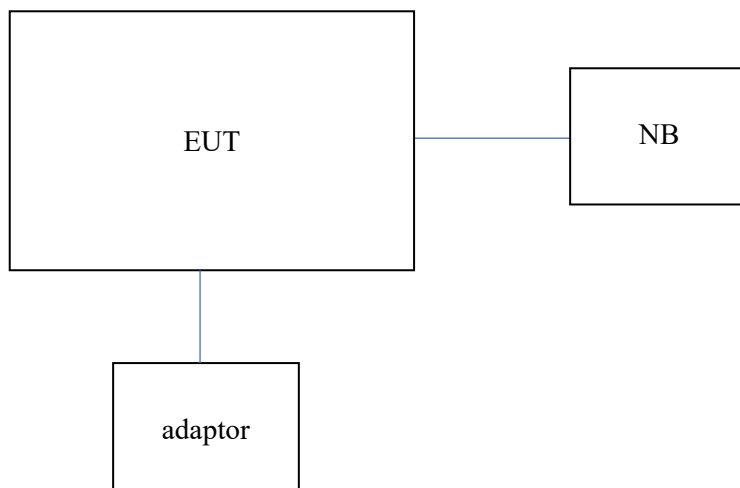
The EUT is placed on a turn table which is 0.8 m above ground plane. According to ANSI C63.10 and RSS-Gen, AC Line Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR 16-1-1 Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m/1.5m (Frequency above 1 GHz) above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to ANSI C63.10.

2.4 Configuration of Tested System

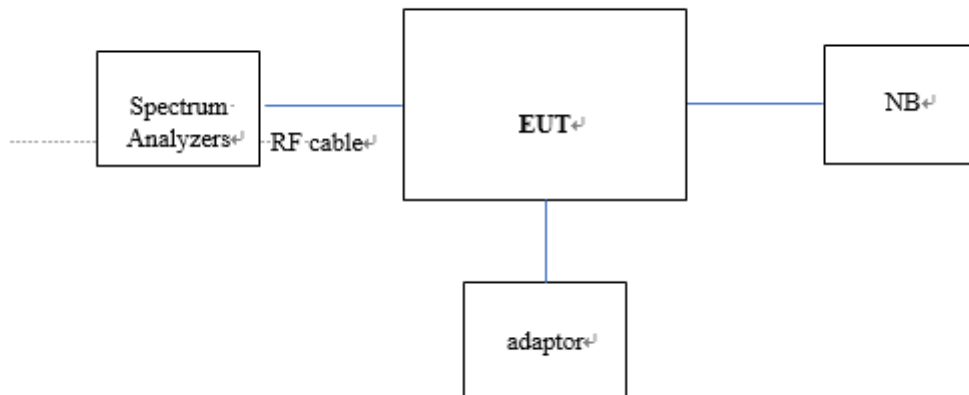
Configuration of Tested System (Fixed channel)



Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	NB	HP	440-G1	NA	NA	180cm
2	adaptor	CoreStar	SW24-120U	NA	NA	150cm

Conducted Test



Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	NB	HP	440-G1	NA	NA	180cm
2	adaptor	CoreStar	SW24-120U	NA	NA	150cm
3.	Spectrum Analyzers	KEYSIGHT	N9010A	MY5607025 7	NA	NA

1. Equipment cable

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Cable loss	Power Cord
1	RF cable	WOEKEN	00100A2H646027	200121OO015	2dB	9cm

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

2.5 Duty factor

Mode	ON time (ms)	Total time (ms)	Duty Cycle	Duty Factor	1/Ton	VBW (kHz)
b	--	--	100%	0	0.01	0.01
g	1.379	1.439	95.811%	0.186	0.725	1
HT20	1.266	1.326	95.454%	0.202	0.79	1
HT40	0.648	0.69	93.913%	0.273	1.543	3

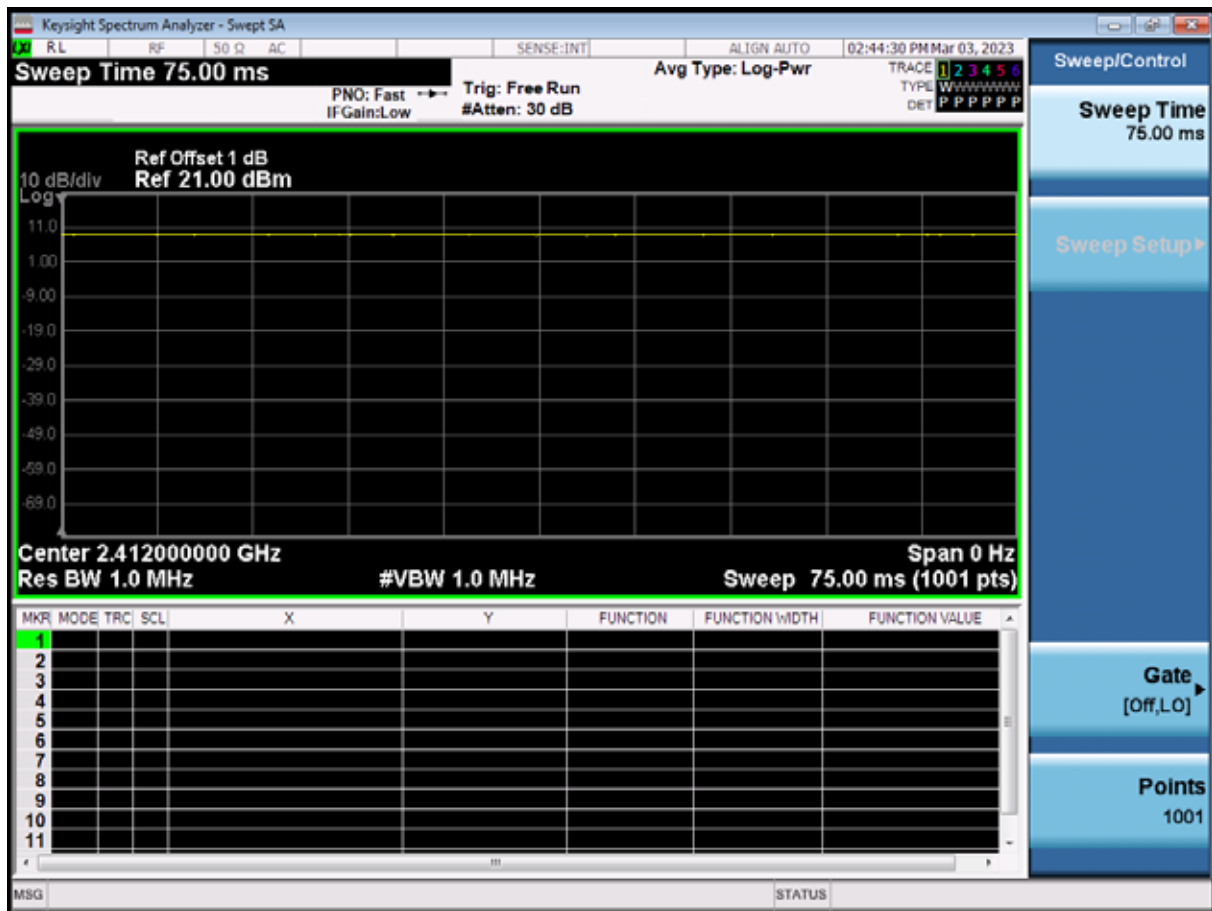
If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

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

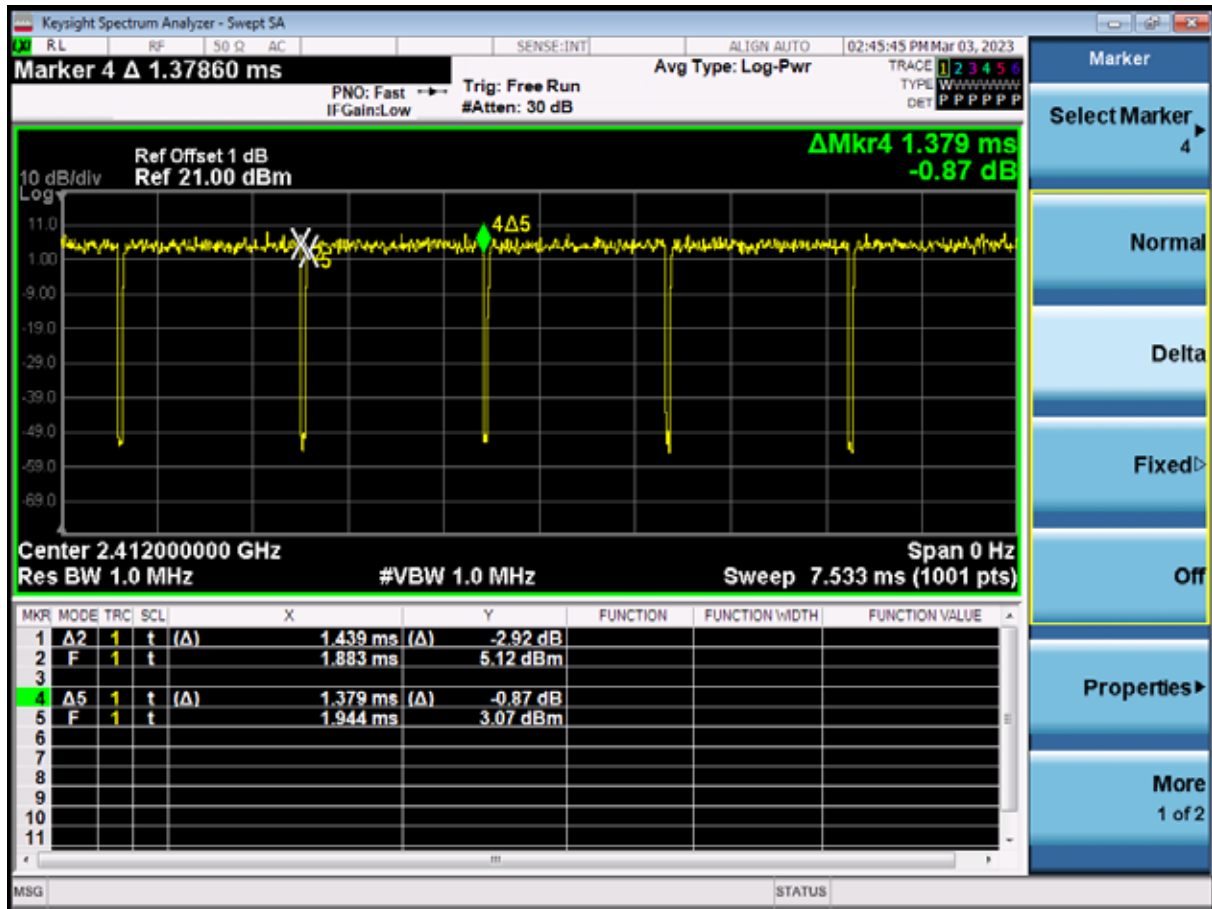
The output power = measured power + duty factor

For frequency above 1GHz, the video bandwidth setting for average detector: $VBW \geq 1/Ton$

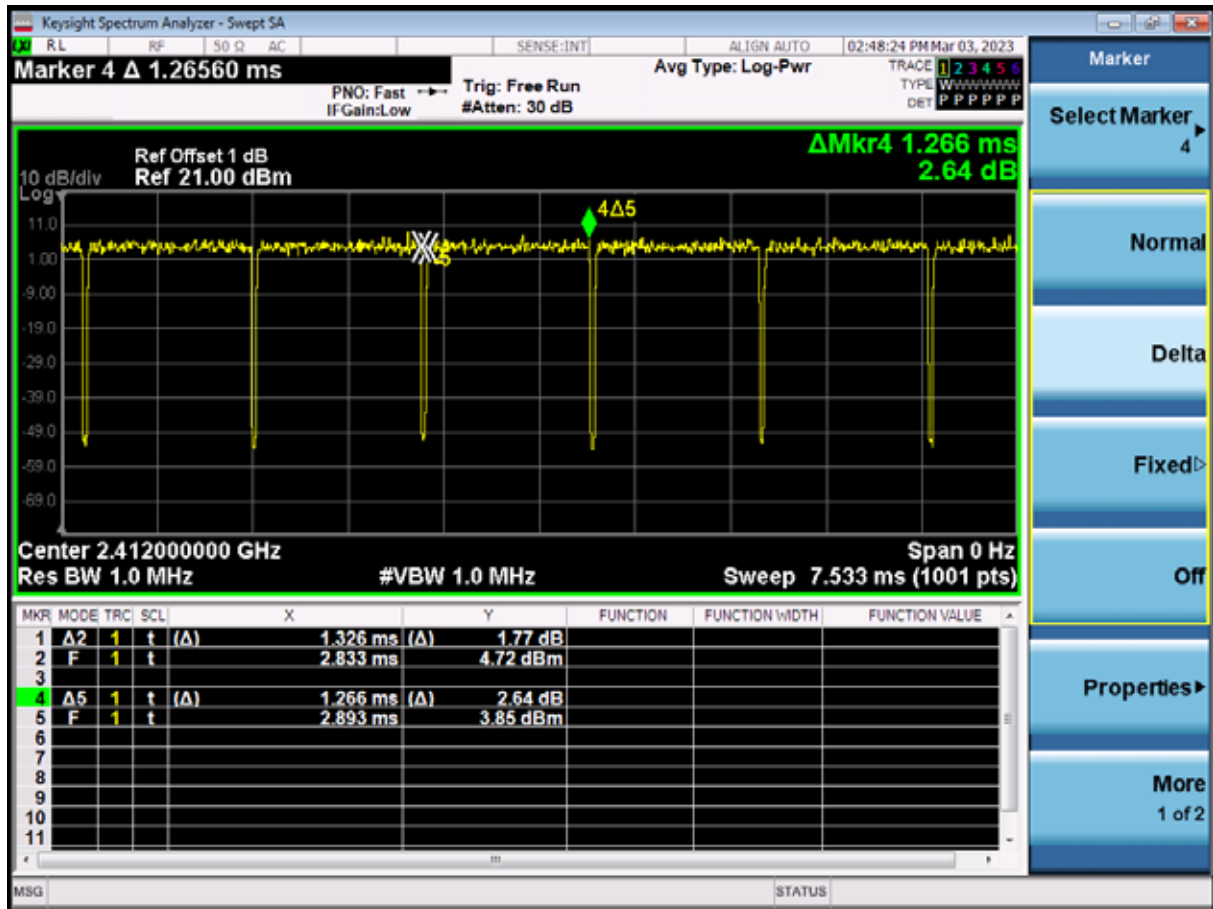
Test Data: b mode Duty



Test Data: g mode Duty



Test Data: n20 mode Duty



[illegible]

3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3), (4)	Peak Output Power/ EIRP	Compliant
§15.247(a)(2)	6dB & 99% Power Bandwidth	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edges	Compliant
§15.247(d)	Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

4. Description of Test Modes

The EUT has been tested under engineering operating condition.

Test program used to control the EUT for staying in continuous transmitting mode is programmed.

802.11 b mode: Channel low (2412MHz), mid (2437MHz), high (2462MHz) with 1Mbps lowest data rate are chosen for full testing.

802.11 g mode: Channel low (2412MHz), mid (2437MHz), high (2462MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n HT20: Channel low (2412MHz), mid (2437MHz), high (2462MHz) with 6.5Mbps lowest data rate are chosen for full testing.

802.11 n HT40: Channel low (2422MHz), mid (2437MHz), high (2452MHz) with 13.5Mbps lowest data rate are chosen for full testing.

5. AC Line Conducted Emission Test

5.1 Standard Applicable

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

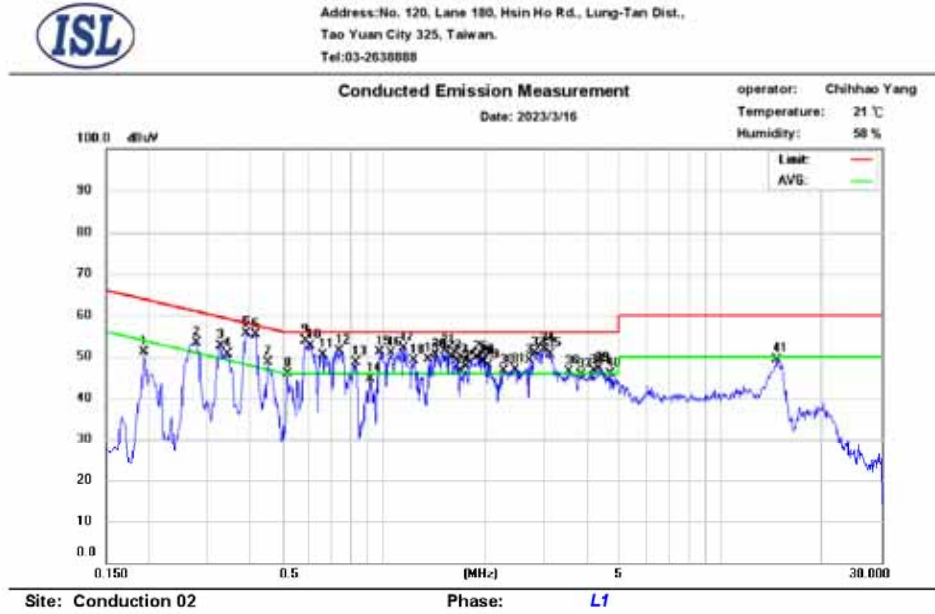
- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.2 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.
4. Both 120V & 240V have been verified, and 120V/60Hz was defined as the worst-case and record in the report.

5.3 Measurement Result

- Line



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.194	38.53	26.82	9.64	48.17	63.86	-15.69	36.46	53.86	-17.40
2	0.278	43.22	32.34	9.65	52.87	60.88	-8.01	41.99	50.88	-8.89
3	0.326	41.45	32.60	9.64	51.09	59.55	-8.46	42.24	49.55	-7.31
4	0.345	40.47	31.16	9.64	50.11	59.08	-8.97	40.80	49.08	-8.28
5	0.390	45.48	36.00	9.65	55.13	58.06	-2.93	45.65	48.06	-2.41
6	0.417	44.26	32.61	9.65	53.91	57.51	-3.60	42.26	47.51	-5.25
7	0.450	36.62	24.45	9.65	46.27	56.88	-10.61	34.10	46.88	-12.78
8	0.518	34.67	22.15	9.65	44.32	56.00	-11.68	31.80	46.00	-14.20
9	0.582	43.27	30.14	9.65	52.92	56.00	-3.08	39.79	46.00	-6.21
10	0.606	41.97	29.85	9.65	51.62	56.00	-4.38	39.50	46.00	-6.50
11	0.658	39.62	28.03	9.66	49.28	56.00	-6.72	37.69	46.00	-8.31
12	0.742	41.09	28.27	9.67	50.76	56.00	-5.24	37.94	46.00	-8.06
13	0.830	37.29	23.54	9.67	46.96	56.00	-9.04	33.21	46.00	-12.79
14	0.914	32.72	19.89	9.67	42.39	56.00	-13.61	29.56	46.00	-16.44
15	0.978	40.24	27.44	9.68	49.92	56.00	-6.08	37.12	46.00	-8.88
16	1.054	39.66	26.16	9.68	49.34	56.00	-6.66	35.84	46.00	-10.16
17	1.146	41.42	27.03	9.68	51.10	56.00	-4.90	36.71	46.00	-9.29

Site: Conduction 02

Phase: L1

No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
18	1.234	37.62	25.21	9.69	47.31	56.00	-8.69	34.90	46.00	-11.10
19	1.358	39.36	27.57	9.69	49.05	56.00	-6.95	37.26	46.00	-8.74
20	1.438	38.69	27.12	9.69	48.38	56.00	-7.62	36.81	46.00	-9.19
21	1.518	40.57	29.52	9.71	50.28	56.00	-5.72	39.23	46.00	-6.77
22	1.590	38.39	27.34	9.71	48.10	56.00	-7.90	37.05	46.00	-8.95
23	1.662	37.94	26.53	9.71	47.65	56.00	-8.35	36.24	46.00	-9.76
24	1.682	34.40	22.33	9.71	44.11	56.00	-11.89	32.04	46.00	-13.96
25	1.758	31.96	21.44	9.71	41.67	56.00	-14.33	31.15	46.00	-14.85
26	1.894	38.32	26.12	9.72	48.04	56.00	-7.96	35.84	46.00	-10.16
27	1.974	36.60	25.76	9.72	46.32	56.00	-9.68	35.48	46.00	-10.52
28	2.002	34.49	25.47	9.72	44.21	56.00	-11.79	35.19	46.00	-10.81
29	2.042	36.10	24.81	9.72	45.82	56.00	-10.18	34.53	46.00	-11.47
30	2.282	34.72	22.46	9.72	44.44	56.00	-11.56	32.18	46.00	-13.82
31	2.458	34.56	23.79	9.73	44.29	56.00	-11.71	33.52	46.00	-12.48
32	2.718	36.81	25.68	9.74	46.55	56.00	-9.45	35.42	46.00	-10.58
33	2.810	37.86	26.70	9.74	47.60	56.00	-8.40	36.44	46.00	-9.56
34	2.978	38.53	29.86	9.74	48.27	56.00	-7.73	39.60	46.00	-6.40
35	3.162	36.39	27.84	9.75	46.14	56.00	-9.86	37.59	46.00	-8.41
36	3.550	33.00	21.57	9.76	42.76	56.00	-13.24	31.33	46.00	-14.67
37	3.846	32.19	23.71	9.77	41.96	56.00	-14.04	33.48	46.00	-12.52
38	4.198	32.78	23.26	9.77	42.55	56.00	-13.45	33.03	46.00	-12.97
39	4.358	32.39	23.87	9.77	42.16	56.00	-13.84	33.64	46.00	-12.36
40	4.698	29.51	21.68	9.78	39.29	56.00	-16.71	31.46	46.00	-14.54
41	14.738	35.56	26.58	9.92	45.48	60.00	-14.52	36.50	50.00	-13.50

Note:

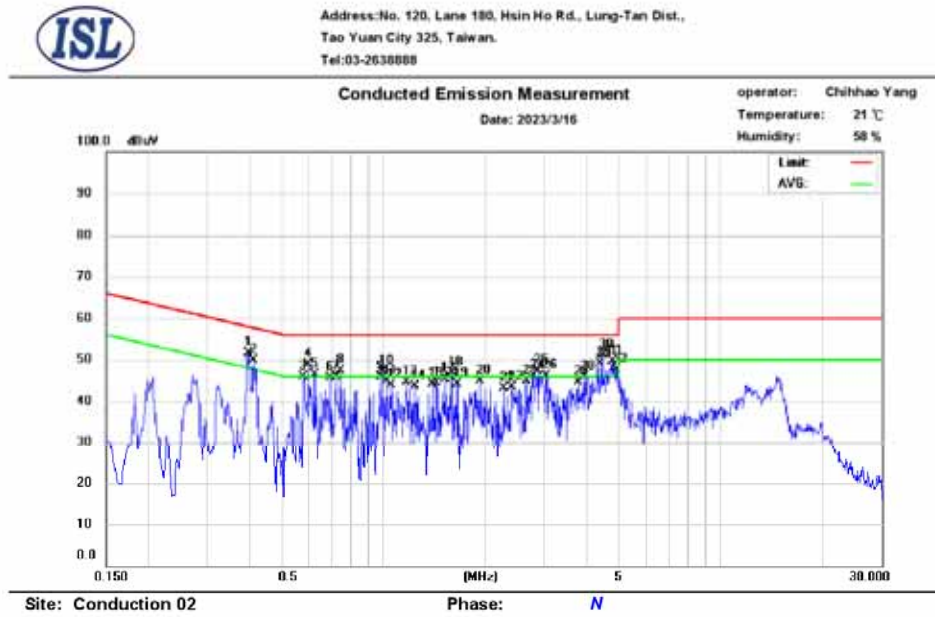
Margin = QP/AVG Emission - Limit

QP/AVG Emission = QP_R/AVG_R + Correct Factor

Correct Factor = LISN Loss + Cable Loss

The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.
If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead.

- Neutral



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.394	35.42	26.08	9.65	45.07	57.98	-12.91	35.73	47.98	-12.25
2	0.410	38.68	25.77	9.65	48.33	57.65	-9.32	35.42	47.65	-12.23
3	0.578	27.92	15.01	9.65	37.57	56.00	-18.43	24.66	46.00	-21.34
4	0.598	37.23	20.30	9.65	46.88	56.00	-9.12	29.95	46.00	-16.05
5	0.622	31.71	17.99	9.65	41.36	56.00	-14.64	27.64	46.00	-18.36
6	0.694	32.22	13.56	9.66	41.88	56.00	-14.12	23.22	46.00	-22.78
7	0.722	33.70	18.77	9.67	43.37	56.00	-12.63	28.44	46.00	-17.56
8	0.746	30.86	17.40	9.67	40.53	56.00	-15.47	27.07	46.00	-18.93
9	0.982	33.35	15.64	9.68	43.03	56.00	-12.97	25.32	46.00	-20.68
10	0.998	27.77	14.48	9.68	37.45	56.00	-18.55	24.16	46.00	-21.84
11	1.022	24.96	13.94	9.68	34.64	56.00	-21.36	23.62	46.00	-22.38
12	1.050	29.84	14.62	9.68	39.52	56.00	-16.48	24.30	46.00	-21.70
13	1.166	35.35	18.44	9.68	45.03	56.00	-10.97	28.12	46.00	-17.88
14	1.242	25.89	14.53	9.69	35.58	56.00	-20.42	24.22	46.00	-21.78
15	1.398	30.26	12.70	9.69	39.95	56.00	-16.05	22.39	46.00	-23.61
16	1.434	25.12	14.31	9.69	34.81	56.00	-21.19	24.00	46.00	-22.00
17	1.526	25.76	16.21	9.71	35.47	56.00	-20.53	25.92	46.00	-20.08

Site: Conduction 02 Phase: **N**

No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
18	1.594	32.00	16.52	9.71	41.71	56.00	-14.29	26.23	46.00	-19.77
19	1.658	28.06	13.97	9.71	37.77	56.00	-18.23	23.68	46.00	-22.32
20	1.930	31.06	15.82	9.72	40.78	56.00	-15.22	25.54	46.00	-20.46
21	2.266	29.32	12.23	9.72	39.04	56.00	-16.96	21.95	46.00	-24.05
22	2.398	28.51	13.66	9.73	38.24	56.00	-17.76	23.39	46.00	-22.61
23	2.654	29.58	13.01	9.73	39.31	56.00	-16.69	22.74	46.00	-23.26
24	2.782	26.84	15.84	9.73	36.57	56.00	-19.43	25.57	46.00	-20.43
25	2.858	31.62	16.92	9.73	41.35	56.00	-14.65	26.65	46.00	-19.35
26	3.038	27.24	17.35	9.75	36.99	56.00	-19.01	27.10	46.00	-18.90
27	3.766	28.50	12.83	9.76	38.26	56.00	-17.74	22.59	46.00	-23.41
28	3.938	25.32	12.19	9.76	35.08	56.00	-20.92	21.95	46.00	-24.05
29	4.382	32.18	15.21	9.76	41.94	56.00	-14.06	24.97	46.00	-21.03
30	4.454	34.98	16.45	9.77	44.75	56.00	-11.25	26.22	46.00	-19.78
31	4.786	32.10	15.94	9.78	41.88	56.00	-14.12	25.72	46.00	-20.28
32	4.978	30.72	14.81	9.78	40.50	56.00	-15.50	24.59	46.00	-21.41

Note:
 Margin = QP/AVG Emission - Limit
 QP/AVG Emission = QP_R/AVG_R + Correct Factor
 Correct Factor = LISN Loss + Cable Loss
 The frequency spectrum graph is for final peak graph, and the attached table is for QP/AVG test result.
 If peak data can pass, it will be shown in "QP/AVG Correct" column, if not, QP/AVG data will instead.

6. Peak Output Power Measurement

6.1 Standard Applicable

According to §15.247

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

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

6.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum analyzer with proper instrument's parameters.
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

6.3 Measurement Result

CDD mode - Peak Power

Mode	Freq. (MHz)	Output Power (dBm)				Duty Factor (dB)	Total Output Power (dBm)	Output Power Limit (dBm)
		Chain 0	Chain 1	Chain 2	Chain 3			
802.11b	2412	14.45				0	14.45	30
	2437	15.35				0	15.35	30
	2462	15.35				0	15.35	30
802.11g	2412	15.51				0	15.51	30
	2437	15.82				0	15.82	30
	2462	15.92				0	15.92	30
802.11n HT20	2412	15.43				0	15.43	30
	2437	15.82				0	15.82	30
	2462	15.89				0	15.89	30
802.11n HT40	2422	14.91				0	14.91	30
	2437	15.23				0	15.23	30
	2452	15.64				0	15.64	30

7. Radiated Spurious Emission Test

7.1 Standard Applicable

According to §15.247(d), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

7.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m/1.5m above ground plane in 966 chamber.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

Test receiver setting	: Blew 1GHz
Detector	: Average (9kHz – 90kHz, 110kHz – 90kHz), Quasi-Peak
Bandwidth	: 200Hz, 120kHz
Test spectrum setting	: Above 1GHz
Peak	: RBW=1MHz, VBW $\geq$ 3*RBW, Sweep=auto
Average	: RBW=1MHz, VBW $\geq$ 1/T _{on} , Sweep=auto

7.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Remark:

<1GHz

1. No further spurious emissions detected from the lowest internal frequency and 30MHz.
2. Measuring frequencies from the lowest internal frequency to the 1GHz.
3. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument detector setting 9-90kHz/110-490kHz using PK/AV and other Frequency Band using PK/QP
4. Measurement result within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

>1GHz

- 5 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 6 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 7 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

7.4 Measurement Result

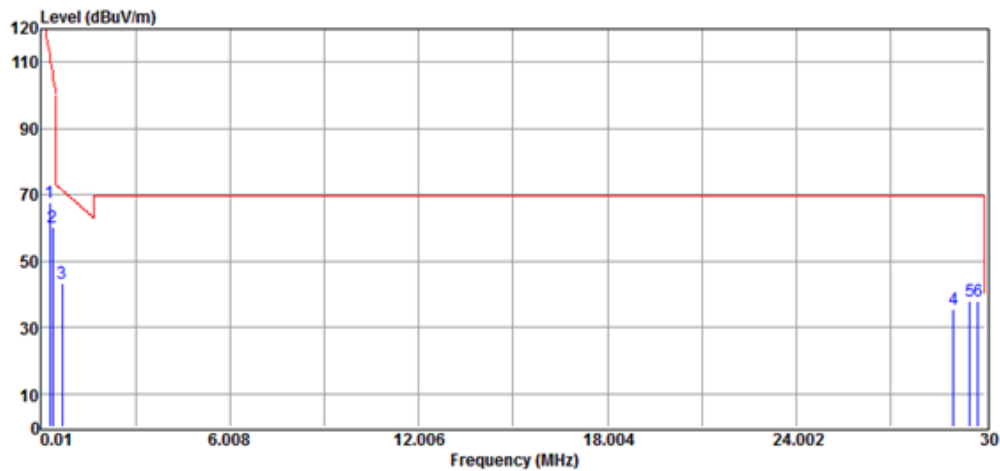
7.4.1 Radiated Spurious Emission Measurement Result (below 30MHz)



International Standard Laboratory Corp.
Company Address: No.120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-06-06

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → 2.4 Tx Low ch → Tested by → Barry Lee →



No.	Freq. MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol. V/H
1	0.28	44.88	22.86	67.74	112.45	-44.71	Peak	VERTICAL
2	0.37	39.83	20.44	60.27	107.12	-46.85	Peak	VERTICAL
3	0.67	27.23	16.23	43.46	71.51	-28.05	Peak	VERTICAL
4	29.01	22.85	12.48	35.33	69.54	-34.21	Peak	VERTICAL
5	29.52	25.46	12.59	38.05	69.54	-31.49	Peak	VERTICAL
6	29.79	25.44	12.64	38.08	69.54	-31.46	Peak	VERTICAL

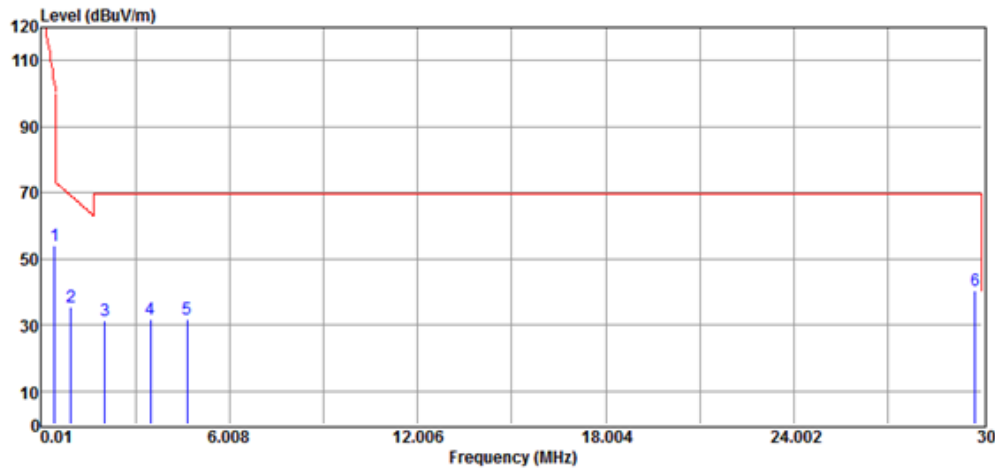
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-06-06

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : 2.4-Tx Low ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	0.43	35.08	19.15	54.23	103.56	-49.33	Peak	HORIZONTAL
2	0.97	21.19	14.16	35.35	69.01	-33.66	Peak	HORIZONTAL
3	2.05	19.42	11.88	31.30	69.54	-38.24	Peak	HORIZONTAL
4	3.49	21.30	10.53	31.83	69.54	-37.71	Peak	HORIZONTAL
5	4.66	21.65	10.09	31.74	69.54	-37.80	Peak	HORIZONTAL
6	29.79	27.92	12.64	40.56	69.54	-28.98	Peak	HORIZONTAL

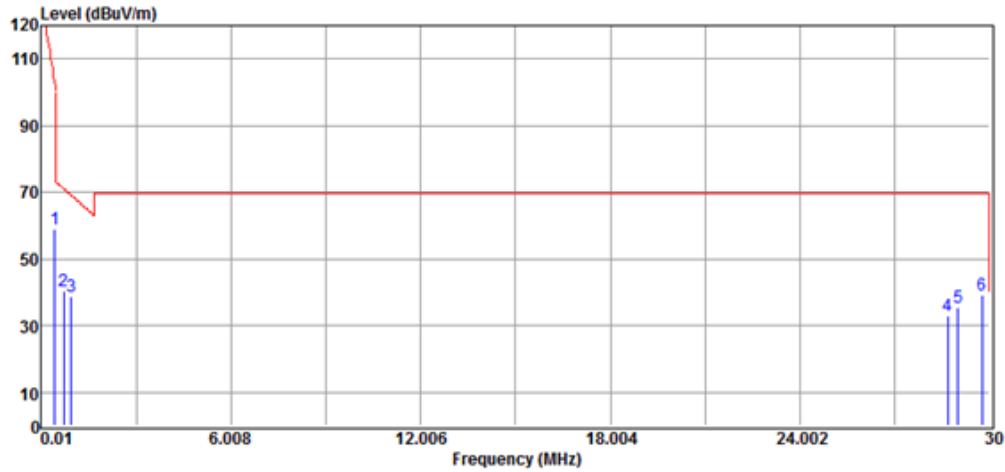
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.,
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-06-06

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → 2.4-Tx Mid ch → Tested by → Barry Lee →



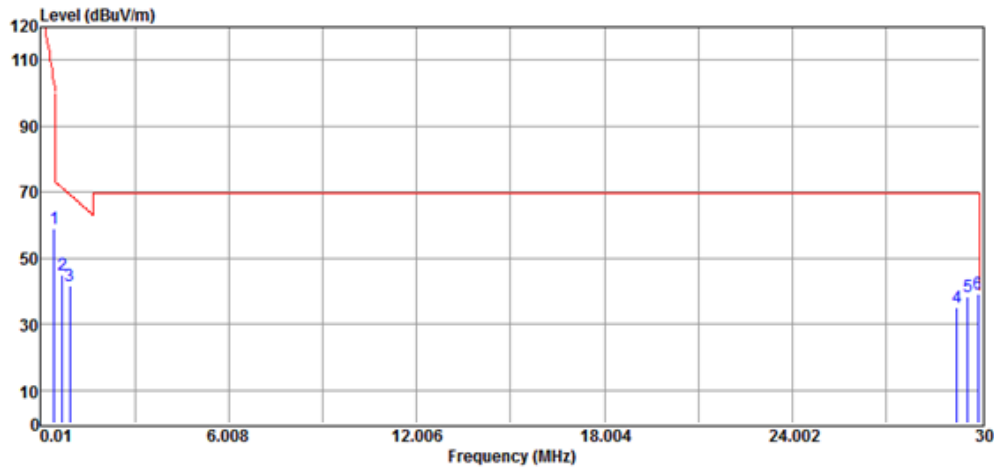
No	Freq	Reading	Factor	Level	Limit	Margin	Remark	Pol
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		V/H
1	0.43	40.02	19.15	59.17	103.56	-44.39	Peak	VERTICAL
2	0.73	24.63	15.76	40.39	71.01	-30.62	Peak	VERTICAL
3	0.97	24.42	14.16	38.58	69.01	-30.43	Peak	VERTICAL
4	28.68	20.70	12.41	33.11	69.54	-36.43	Peak	VERTICAL
5	29.01	23.05	12.48	35.53	69.54	-34.01	Peak	VERTICAL
6	29.76	26.50	12.63	39.13	69.54	-30.41	Peak	VERTICAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-06-06

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : 2.4 Tx Mid ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	0.43	39.62	19.15	58.77	103.56	-44.79	Peak	HORIZONTAL
2	0.70	29.02	15.98	45.00	71.26	-26.26	Peak	HORIZONTAL
3	0.94	27.22	14.34	41.56	69.26	-27.70	Peak	HORIZONTAL
4	29.25	22.50	12.53	35.03	69.54	-34.51	Peak	HORIZONTAL
5	29.61	25.80	12.61	38.41	69.54	-31.13	Peak	HORIZONTAL
6	29.94	26.64	12.67	39.31	69.54	-30.23	Peak	HORIZONTAL

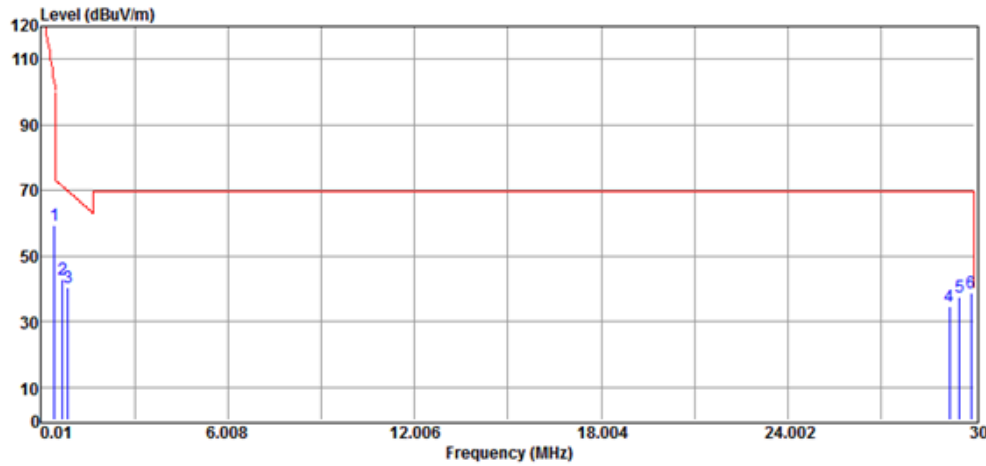
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-06-06

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → 2.4 Tx High ch → Tested by → Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	0.43	40.23	19.15	59.38	103.56	-44.18	Peak	VERTICAL
2	0.70	26.90	15.98	42.88	71.26	-28.38	Peak	VERTICAL
3	0.88	25.54	14.70	40.24	69.76	-29.52	Peak	VERTICAL
4	29.19	22.12	12.51	34.63	69.54	-34.91	Peak	VERTICAL
5	29.52	24.85	12.59	37.44	69.54	-32.10	Peak	VERTICAL
6	29.88	26.06	12.66	38.72	69.54	-30.82	Peak	VERTICAL

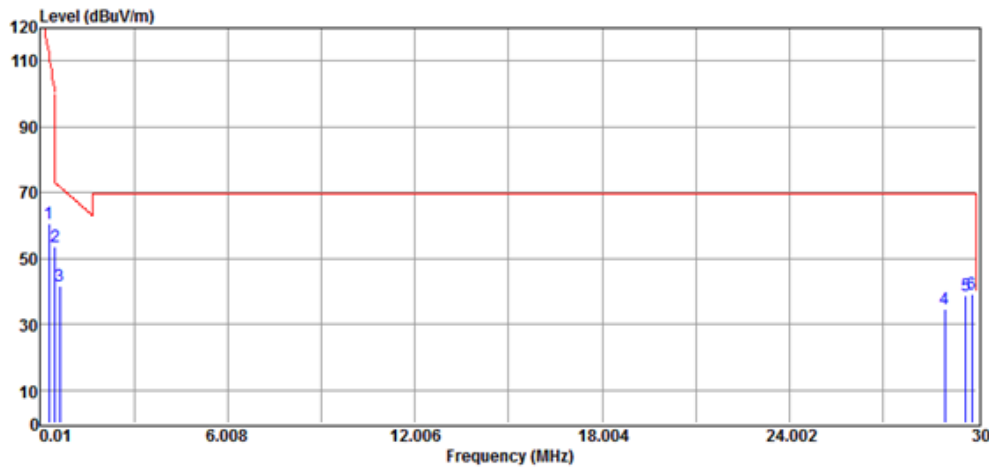
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-06-06

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → 2.4 Tx High ch → Tested by → Barry-Lee →



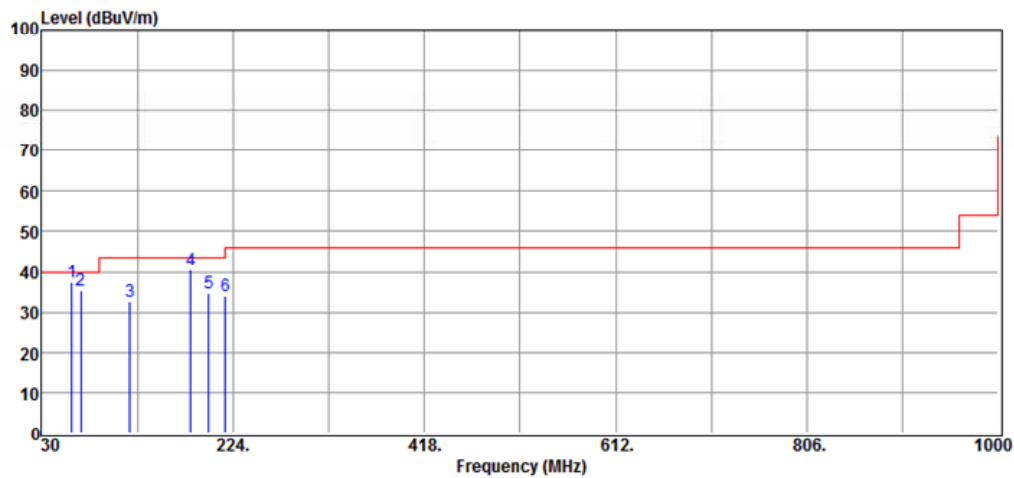
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	0.28	37.87	22.86	60.73	112.45	-51.72	Peak	HORIZONTAL
2	0.49	35.76	18.03	53.79	100.01	-46.22	Peak	HORIZONTAL
3	0.64	25.19	16.48	41.67	71.75	-30.08	Peak	HORIZONTAL
4	28.98	22.32	12.47	34.79	69.54	-34.75	Peak	HORIZONTAL
5	29.64	26.21	12.61	38.82	69.54	-30.72	Peak	HORIZONTAL
6	29.85	26.40	12.65	39.05	69.54	-30.49	Peak	HORIZONTAL

Factor= AF + CL - AG

7.4.2 Radiated Spurious Emission Measurement Result (below 1GHz)

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx Low ch Tested by : Barry Lee

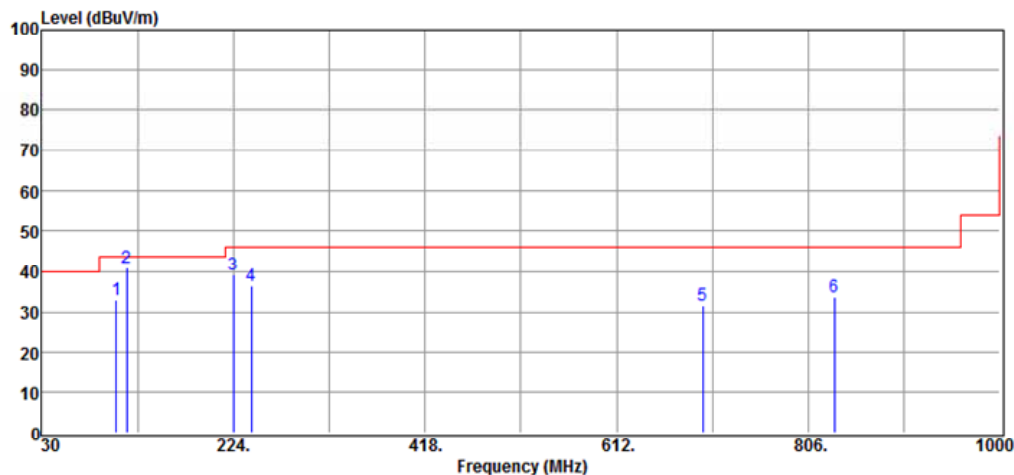


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	61.04	43.75	-6.44	37.31	40.00	-2.69	Peak	VERTICAL
2	69.77	43.60	-8.07	35.53	40.00	-4.47	Peak	VERTICAL
3	119.24	40.80	-8.03	32.77	43.50	-10.73	Peak	VERTICAL
4	181.32	47.29	-6.69	40.60	43.50	-2.90	Peak	VERTICAL
5	199.75	42.68	-7.95	34.73	43.50	-8.77	Peak	VERTICAL
6	216.24	41.68	-7.77	33.91	46.00	-12.09	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx Low ch Tested by : Barry Lee

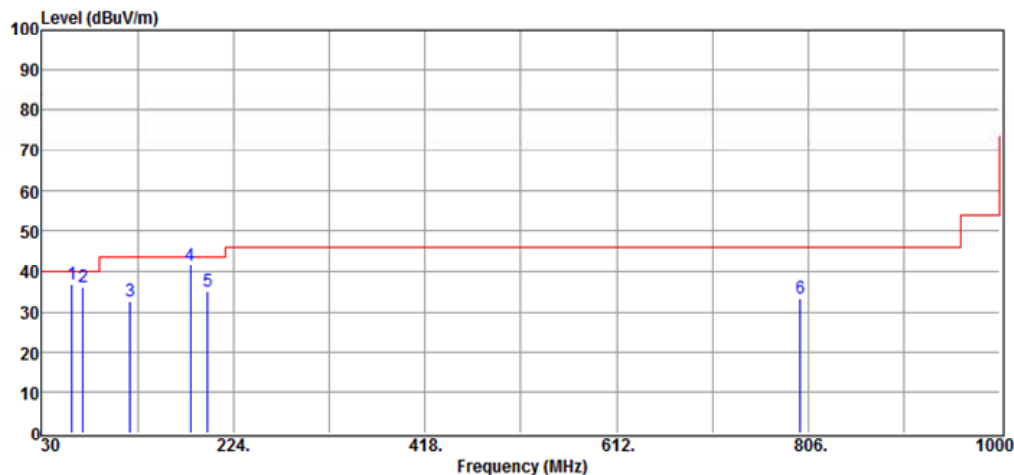


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	105.66	42.47	-9.31	33.16	43.50	-10.34	Peak	HORIZONTAL
2	116.33	49.17	-8.39	40.78	43.50	-2.72	Peak	HORIZONTAL
3	224.00	47.07	-8.05	39.02	46.00	-6.98	Peak	HORIZONTAL
4	242.43	42.56	-6.24	36.32	46.00	-9.68	Peak	HORIZONTAL
5	699.30	28.43	3.22	31.65	46.00	-14.35	Peak	HORIZONTAL
6	832.19	28.45	5.37	33.82	46.00	-12.18	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx Mid ch Tested by : Barry Lee

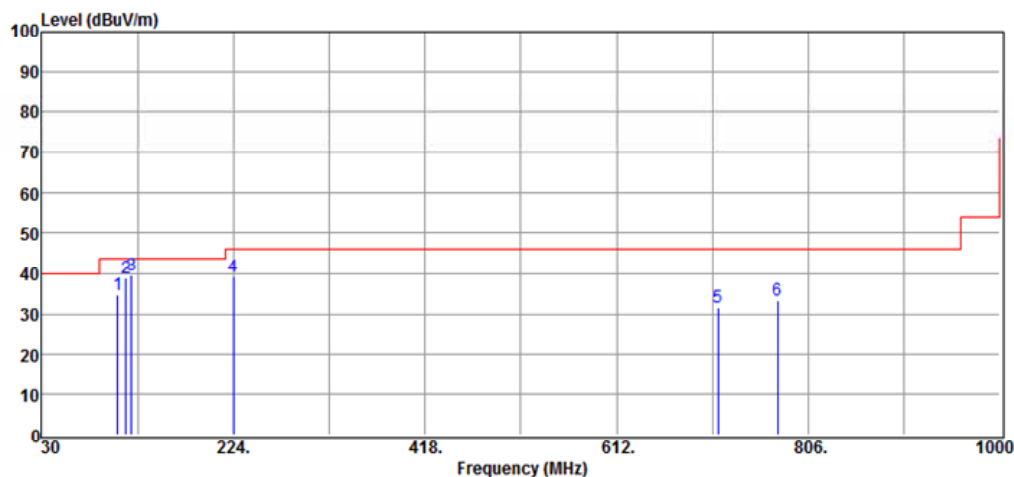


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	61.04	43.22	-6.44	36.78	40.00	-3.22	Peak	VERTICAL
2	71.71	44.21	-8.16	36.05	40.00	-3.95	Peak	VERTICAL
3	119.24	40.71	-8.03	32.68	43.50	-10.82	Peak	VERTICAL
4	180.35	48.04	-6.50	41.54	43.50	-1.96	Peak	VERTICAL
5	197.81	42.98	-7.97	35.01	43.50	-8.49	Peak	VERTICAL
6	798.24	28.27	5.06	33.33	46.00	-12.67	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx Mid ch Tested by : Barry Lee

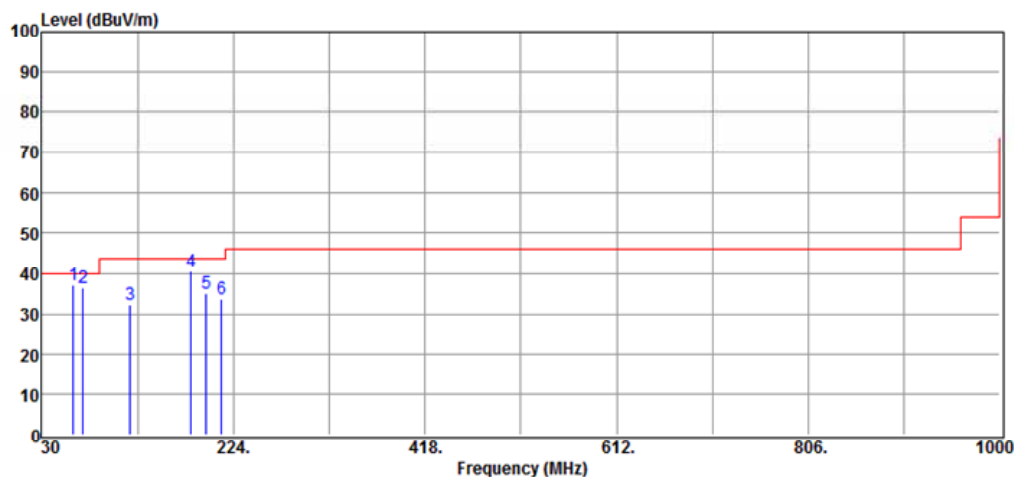


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	106.63	43.92	-9.18	34.74	43.50	-8.76	Peak	HORIZONTAL
2	115.36	47.27	-8.43	38.84	43.50	-4.66	Peak	HORIZONTAL
3	121.18	47.58	-7.89	39.69	43.50	-3.81	Peak	HORIZONTAL
4	224.00	47.27	-8.05	39.22	46.00	-6.78	Peak	HORIZONTAL
5	714.82	28.32	3.41	31.73	46.00	-14.27	Peak	HORIZONTAL
6	774.96	28.39	4.79	33.18	46.00	-12.82	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx High ch Tested by : Barry Lee

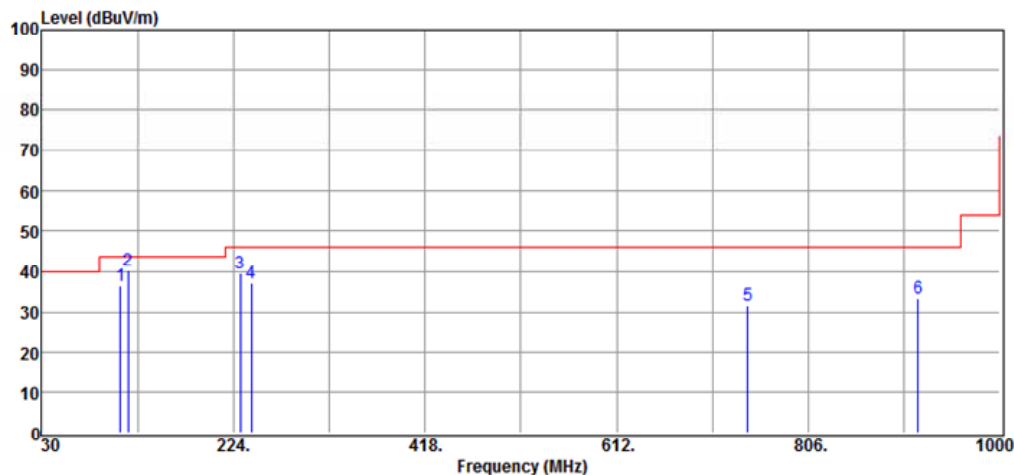


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	62.01	43.76	-6.62	37.14	40.00	-2.86	Peak	VERTICAL
2	71.71	44.43	-8.16	36.27	40.00	-3.73	Peak	VERTICAL
3	119.24	40.23	-8.03	32.20	43.50	-11.30	Peak	VERTICAL
4	181.32	47.40	-6.69	40.71	43.50	-2.79	Peak	VERTICAL
5	196.84	43.00	-7.95	35.05	43.50	-8.45	Peak	VERTICAL
6	212.36	41.39	-7.83	33.56	43.50	-9.94	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx High ch Tested by : Barry Lee

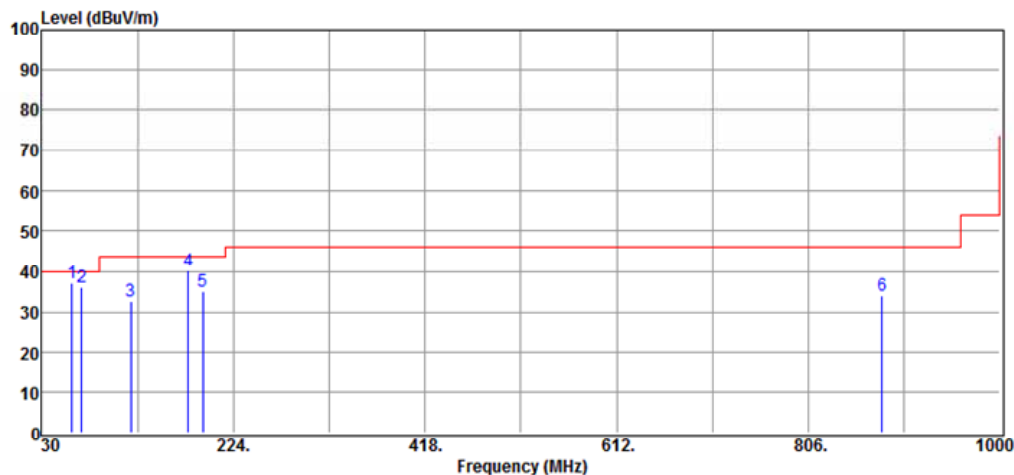


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	109.54	45.21	-8.82	36.39	43.50	-7.11	Peak	HORIZONTAL
2	117.30	48.36	-8.17	40.19	43.50	-3.31	Peak	HORIZONTAL
3	230.79	46.99	-7.62	39.37	46.00	-6.63	Peak	HORIZONTAL
4	242.43	43.43	-6.24	37.19	46.00	-8.81	Peak	HORIZONTAL
5	744.89	27.13	4.34	31.47	46.00	-14.53	Peak	HORIZONTAL
6	917.55	26.58	6.68	33.26	46.00	-12.74	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Low ch Tested by : Barry Lee

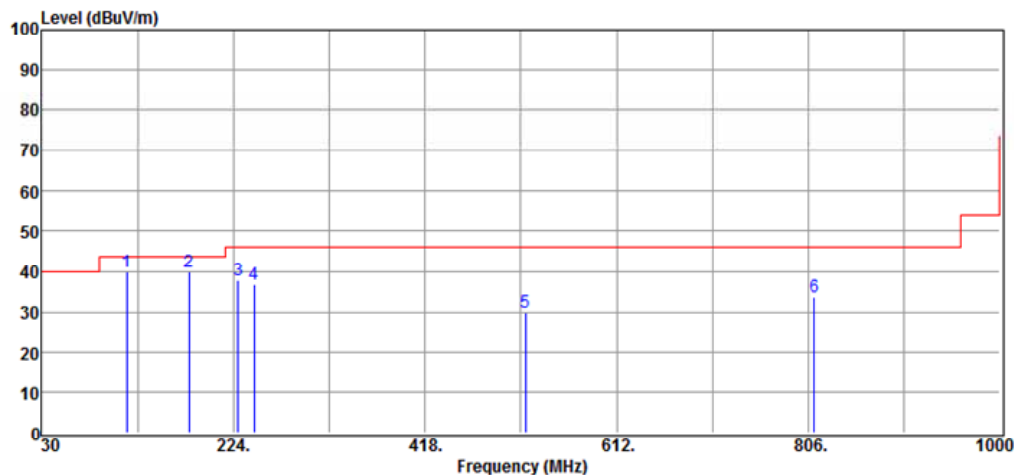


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	61.04	43.40	-6.44	36.96	40.00	-3.04	Peak	VERTICAL
2	70.74	44.03	-8.06	35.97	40.00	-4.03	Peak	VERTICAL
3	120.21	40.50	-7.95	32.55	43.50	-10.95	Peak	VERTICAL
4	178.41	46.61	-6.31	40.30	43.50	-3.20	Peak	VERTICAL
5	192.96	42.88	-7.88	35.00	43.50	-8.50	Peak	VERTICAL
6	880.69	28.14	5.83	33.97	46.00	-12.03	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Low ch Tested by : Barry Lee

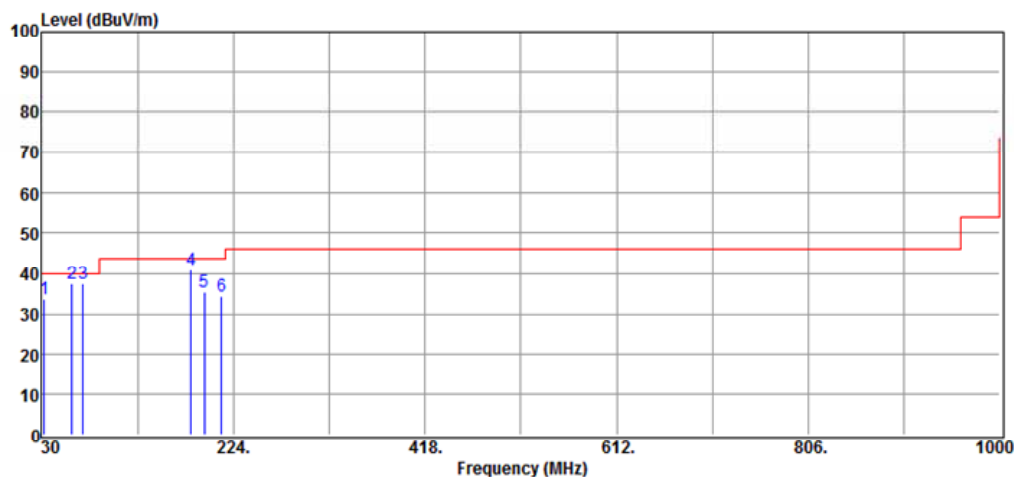


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	116.33	48.19	-8.39	39.80	43.50	-3.70	Peak	HORIZONTAL
2	179.38	46.26	-6.33	39.93	43.50	-3.57	Peak	HORIZONTAL
3	228.85	45.78	-7.85	37.93	46.00	-8.07	Peak	HORIZONTAL
4	245.34	42.80	-6.07	36.73	46.00	-9.27	Peak	HORIZONTAL
5	519.85	30.10	-0.12	29.98	46.00	-16.02	Peak	HORIZONTAL
6	811.82	28.53	5.06	33.59	46.00	-12.41	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Mid ch Tested by : Barry Lee

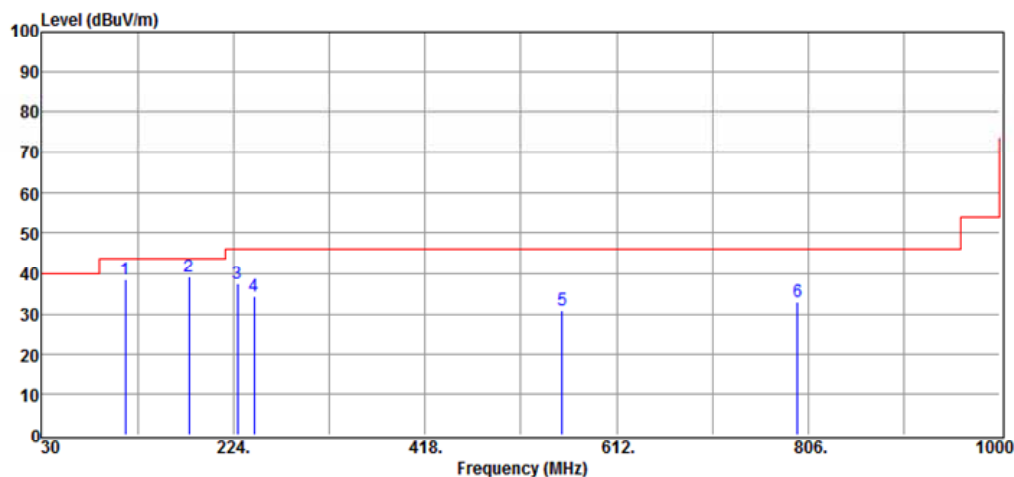


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	32.91	40.97	-7.39	33.58	40.00	-6.42	Peak	VERTICAL
2	61.04	43.76	-6.44	37.32	40.00	-2.68	Peak	VERTICAL
3	71.71	45.55	-8.16	37.39	40.00	-2.61	Peak	VERTICAL
4	181.32	47.41	-6.69	40.72	43.50	-2.78	Peak	VERTICAL
5	194.90	43.18	-7.89	35.29	43.50	-8.21	Peak	VERTICAL
6	212.36	42.18	-7.83	34.35	43.50	-9.15	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Mid ch Tested by : Barry Lee

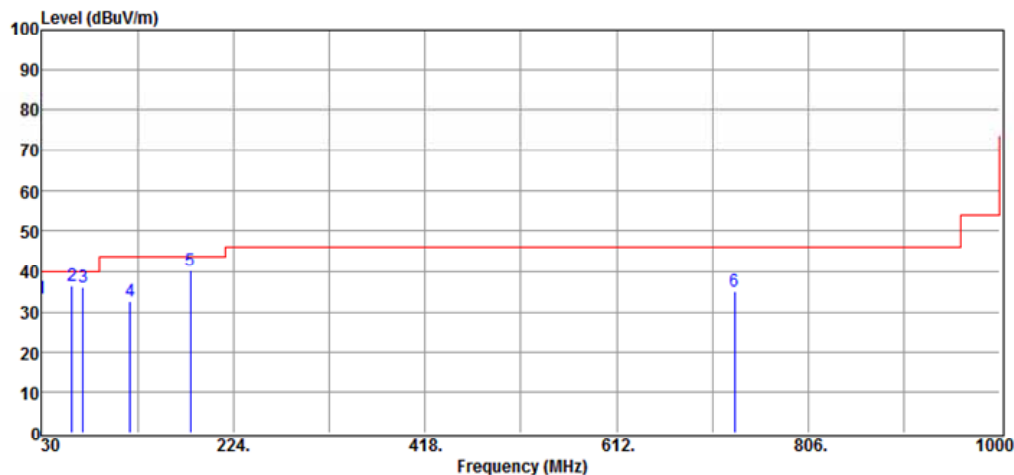


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	114.39	47.10	-8.47	38.63	43.50	-4.87	Peak	HORIZONTAL
2	179.38	45.41	-6.33	39.08	43.50	-4.42	Peak	HORIZONTAL
3	227.88	45.27	-7.91	37.36	46.00	-8.64	Peak	HORIZONTAL
4	245.34	40.29	-6.07	34.22	46.00	-11.78	Peak	HORIZONTAL
5	556.71	30.43	0.34	30.77	46.00	-15.23	Peak	HORIZONTAL
6	795.33	27.97	4.99	32.96	46.00	-13.04	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx High ch Tested by : Barry Lee

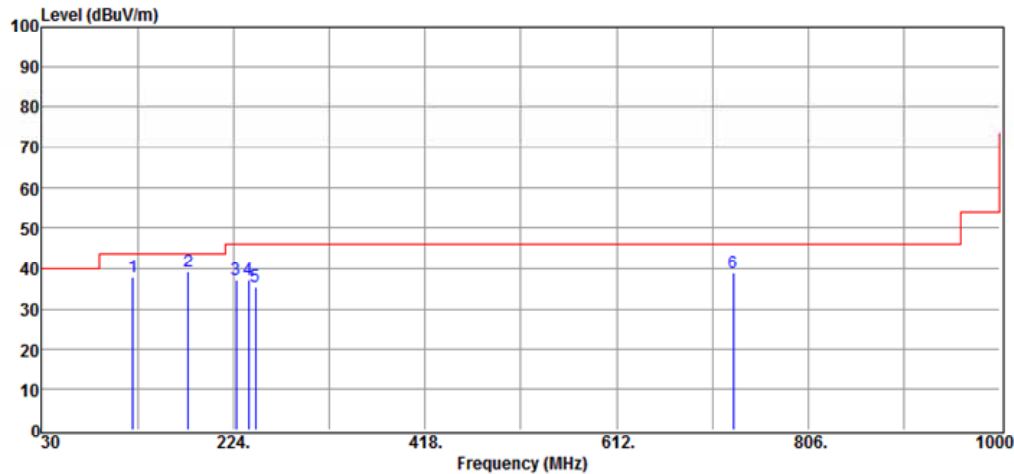


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	30.00	40.43	-7.02	33.41	40.00	-6.59	Peak	VERTICAL
2	61.04	42.96	-6.44	36.52	40.00	-3.48	Peak	VERTICAL
3	71.71	44.21	-8.16	36.05	40.00	-3.95	Peak	VERTICAL
4	119.24	40.61	-8.03	32.58	43.50	-10.92	Peak	VERTICAL
5	180.35	46.78	-6.50	40.28	43.50	-3.22	Peak	VERTICAL
6	731.31	31.42	3.64	35.06	46.00	-10.94	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx High ch Tested by : Barry Lee

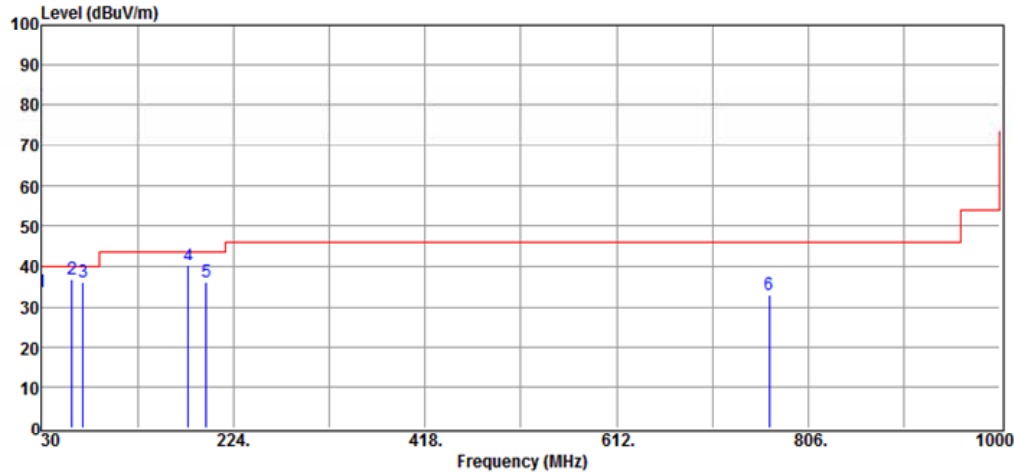


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	122.15	45.44	-7.69	37.75	43.50	-5.75	Peak	HORIZONTAL
2	178.41	45.46	-6.31	39.15	43.50	-4.35	Peak	HORIZONTAL
3	226.91	45.13	-7.97	37.16	46.00	-8.84	Peak	HORIZONTAL
4	239.52	43.44	-6.46	36.98	46.00	-9.02	Peak	HORIZONTAL
5	246.31	41.44	-6.05	35.39	46.00	-10.61	Peak	HORIZONTAL
6	730.34	35.28	3.59	38.87	46.00	-7.13	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Low ch Tested by : Barry Lee

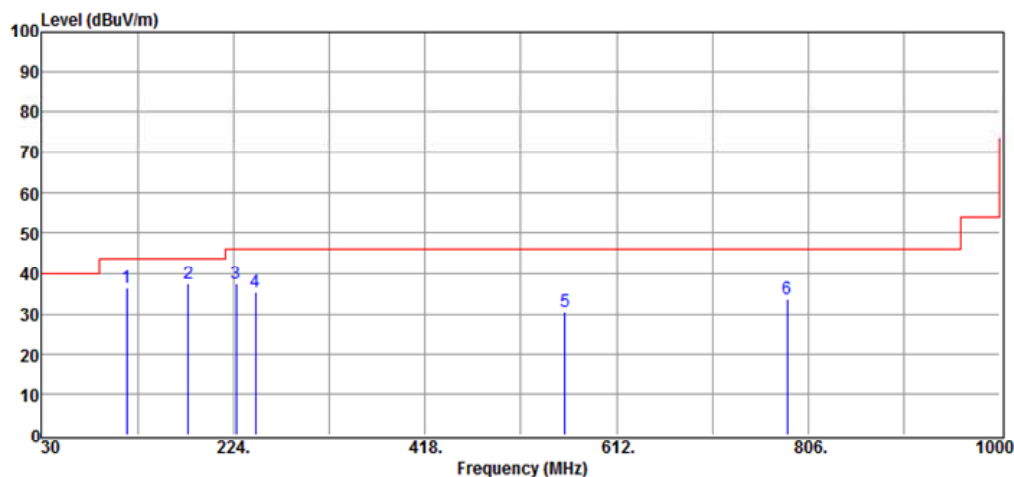


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	30.00	40.54	-7.02	33.52	40.00	-6.48	Peak	VERTICAL
2	61.04	43.28	-6.44	36.84	40.00	-3.16	Peak	VERTICAL
3	71.71	44.36	-8.16	36.20	40.00	-3.80	Peak	VERTICAL
4	178.41	46.61	-6.31	40.30	43.50	-3.20	Peak	VERTICAL
5	196.84	43.88	-7.95	35.93	43.50	-7.57	Peak	VERTICAL
6	766.23	28.36	4.65	33.01	46.00	-12.99	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Low ch Tested by : Barry Lee

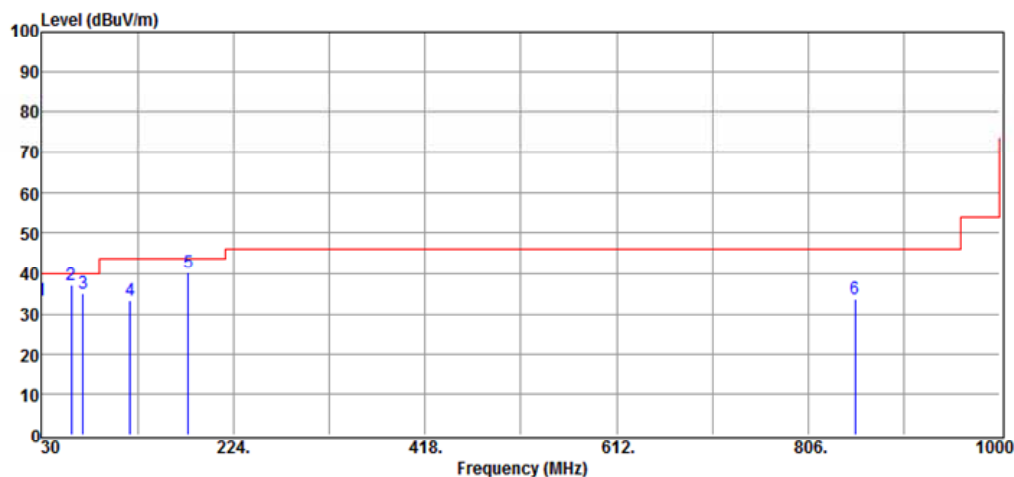


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	116.33	44.96	-8.39	36.57	43.50	-6.93	Peak	HORIZONTAL
2	178.41	43.64	-6.31	37.33	43.50	-6.17	Peak	HORIZONTAL
3	226.91	45.53	-7.97	37.56	46.00	-8.44	Peak	HORIZONTAL
4	246.31	41.47	-6.05	35.42	46.00	-10.58	Peak	HORIZONTAL
5	559.62	30.27	0.34	30.61	46.00	-15.39	Peak	HORIZONTAL
6	784.66	29.04	4.65	33.69	46.00	-12.31	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Mid ch Tested by : Barry Lee

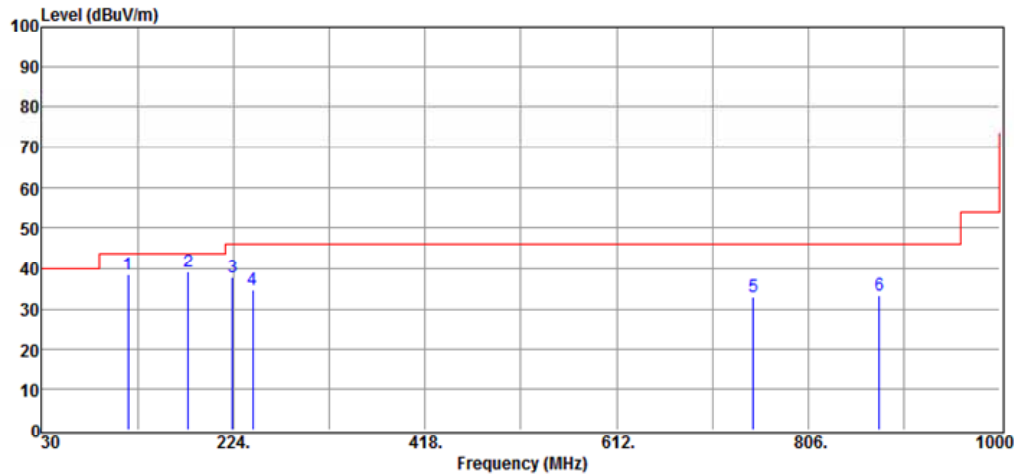


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	30.00	40.48	-7.02	33.46	40.00	-6.54	Peak	VERTICAL
2	60.07	43.35	-6.08	37.27	40.00	-2.73	Peak	VERTICAL
3	71.71	43.07	-8.16	34.91	40.00	-5.09	Peak	VERTICAL
4	119.24	41.23	-8.03	33.20	43.50	-10.30	Peak	VERTICAL
5	178.41	46.46	-6.31	40.15	43.50	-3.35	Peak	VERTICAL
6	853.53	28.23	5.59	33.82	46.00	-12.18	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Mid ch Tested by : Barry Lee

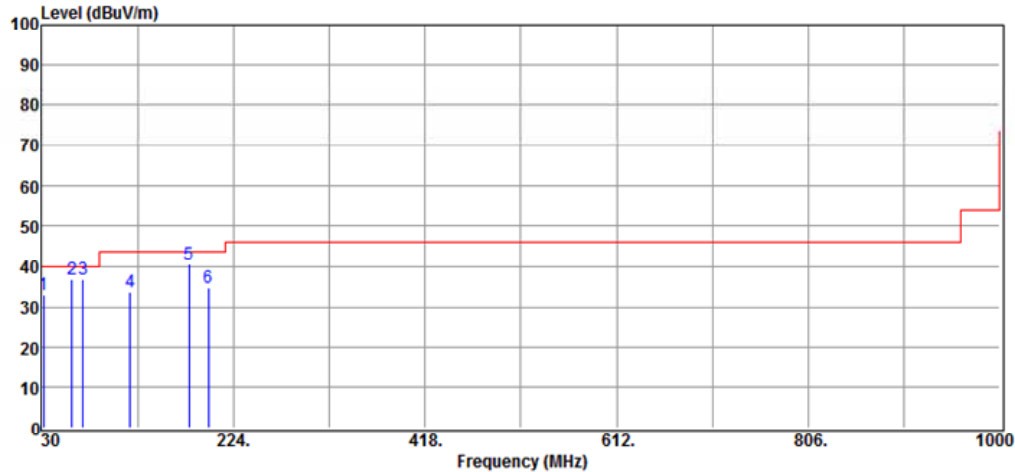


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	117.30	46.70	-8.17	38.53	43.50	-4.97	Peak	HORIZONTAL
2	178.41	45.36	-6.31	39.05	43.50	-4.45	Peak	HORIZONTAL
3	223.03	45.63	-7.99	37.64	46.00	-8.36	Peak	HORIZONTAL
4	243.40	40.88	-6.19	34.69	46.00	-11.31	Peak	HORIZONTAL
5	750.71	28.37	4.57	32.94	46.00	-13.06	Peak	HORIZONTAL
6	877.78	27.67	5.81	33.48	46.00	-12.52	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx High ch Tested by : Barry Lee

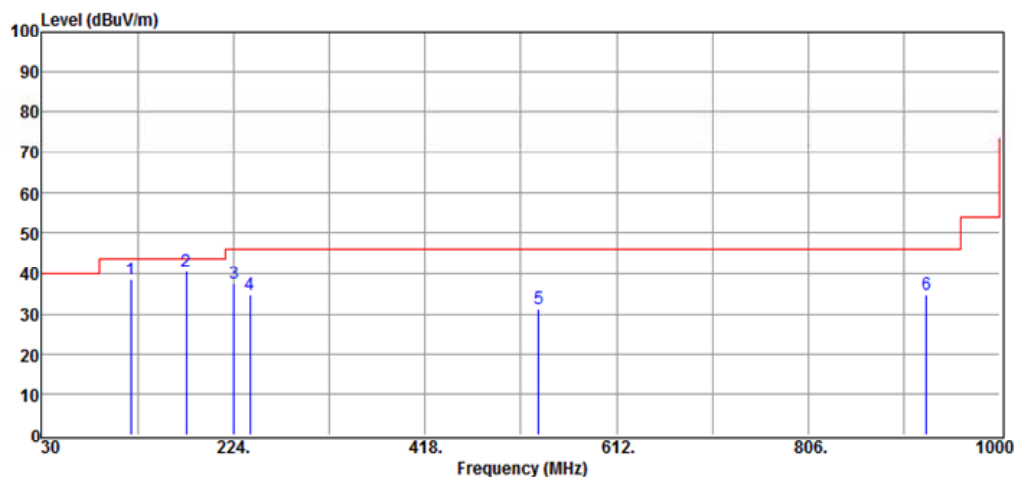


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	31.94	40.34	-7.39	32.95	40.00	-7.05	Peak	VERTICAL
2	61.04	43.13	-6.44	36.69	40.00	-3.31	Peak	VERTICAL
3	71.71	45.05	-8.16	36.89	40.00	-3.11	Peak	VERTICAL
4	119.24	41.55	-8.03	33.52	43.50	-9.98	Peak	VERTICAL
5	179.38	46.72	-6.33	40.39	43.50	-3.11	Peak	VERTICAL
6	198.78	42.69	-7.95	34.74	43.50	-8.76	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx High ch Tested by : Barry Lee

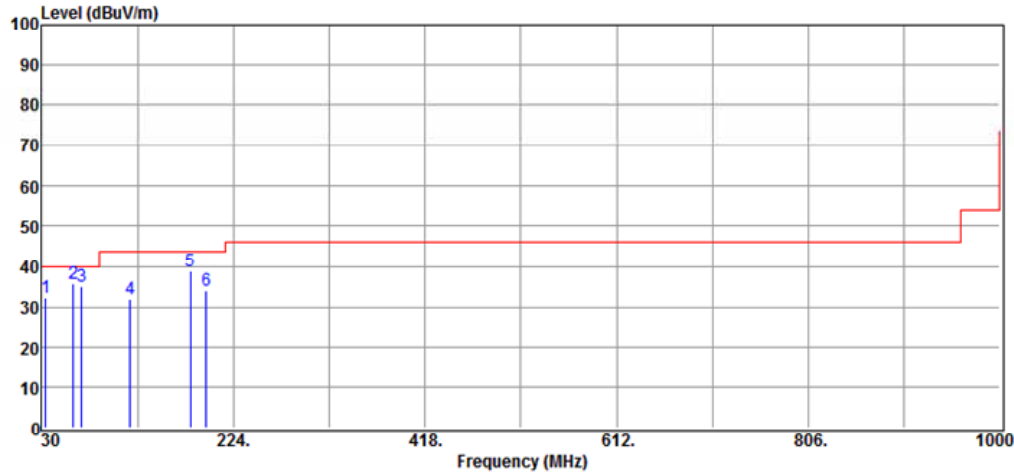


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	120.21	46.39	-7.95	38.44	43.50	-5.06	Peak	HORIZONTAL
2	176.47	46.63	-6.10	40.53	43.50	-2.97	Peak	HORIZONTAL
3	224.97	45.69	-8.09	37.60	46.00	-8.40	Peak	HORIZONTAL
4	240.49	41.19	-6.38	34.81	46.00	-11.19	Peak	HORIZONTAL
5	533.43	31.21	0.08	31.29	46.00	-14.71	Peak	HORIZONTAL
6	925.31	27.65	6.93	34.58	46.00	-11.42	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address:No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwa
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Low ch Tested by : Barry Lee

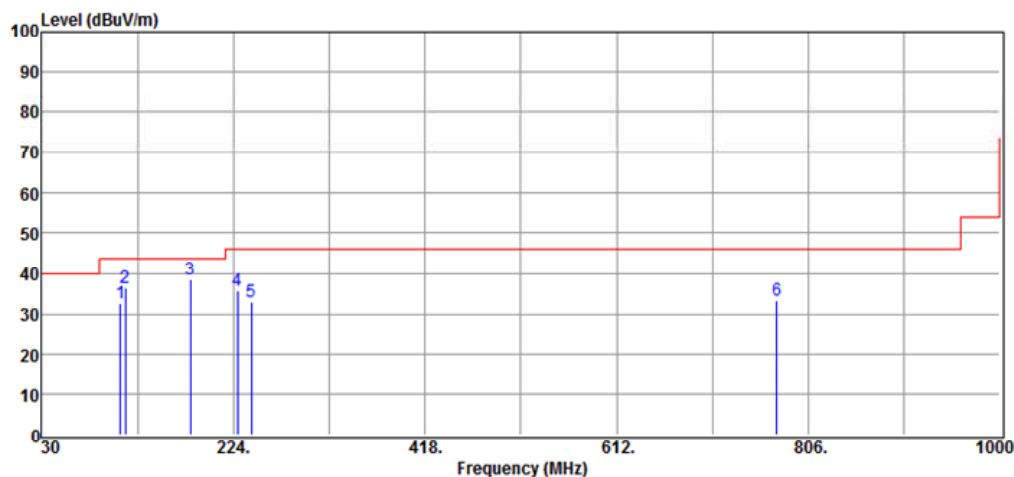


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	33.88	39.42	-6.95	32.47	40.00	-7.53	Peak	VERTICAL
2	62.01	42.50	-6.62	35.88	40.00	-4.12	Peak	VERTICAL
3	70.74	43.14	-8.06	35.08	40.00	-4.92	Peak	VERTICAL
4	119.24	40.06	-8.03	32.03	43.50	-11.47	Peak	VERTICAL
5	180.35	45.50	-6.50	39.00	43.50	-4.50	Peak	VERTICAL
6	196.84	42.12	-7.95	34.17	43.50	-9.33	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Low ch Tested by : Barry Lee

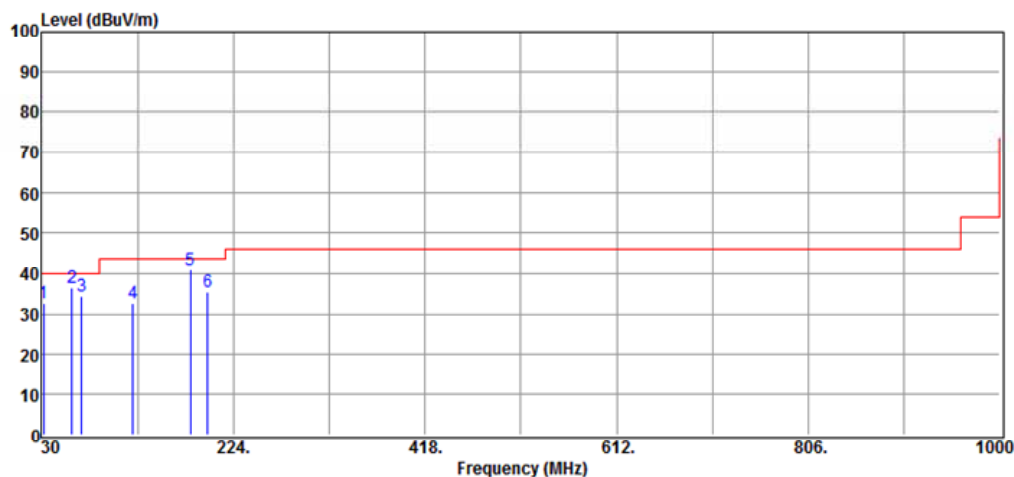


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	109.54	41.60	-8.82	32.78	43.50	-10.72	Peak	HORIZONTAL
2	114.39	44.80	-8.47	36.33	43.50	-7.17	Peak	HORIZONTAL
3	180.35	45.10	-6.50	38.60	43.50	-4.90	Peak	HORIZONTAL
4	227.88	43.69	-7.91	35.78	46.00	-10.22	Peak	HORIZONTAL
5	242.43	39.07	-6.24	32.83	46.00	-13.17	Peak	HORIZONTAL
6	773.99	28.50	4.76	33.26	46.00	-12.74	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Mid ch Tested by : Barry Lee

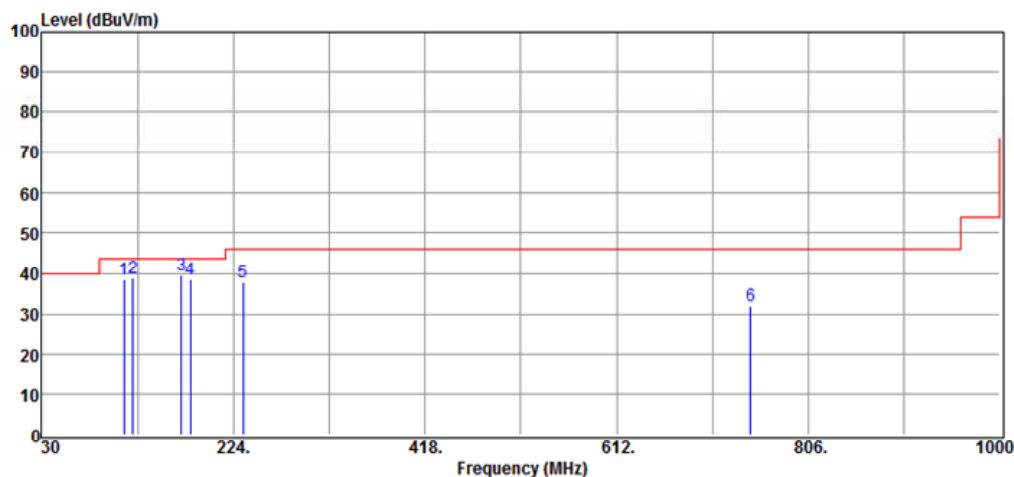


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	31.94	40.02	-7.39	32.63	40.00	-7.37	Peak	VERTICAL
2	61.04	42.73	-6.44	36.29	40.00	-3.71	Peak	VERTICAL
3	70.74	42.40	-8.06	34.34	40.00	-5.66	Peak	VERTICAL
4	122.15	40.38	-7.69	32.69	43.50	-10.81	Peak	VERTICAL
5	180.35	47.22	-6.50	40.72	43.50	-2.78	Peak	VERTICAL
6	197.81	43.33	-7.97	35.36	43.50	-8.14	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Mid ch Tested by : Barry Lee

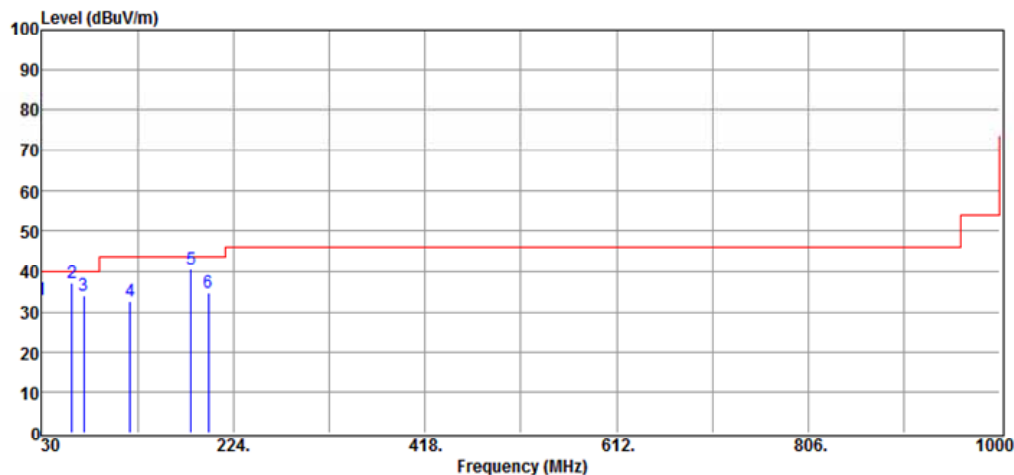


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	113.42	46.90	-8.57	38.33	43.50	-5.17	Peak	HORIZONTAL
2	122.15	46.64	-7.69	38.95	43.50	-4.55	Peak	HORIZONTAL
3	171.62	45.22	-5.61	39.61	43.50	-3.89	Peak	HORIZONTAL
4	180.35	45.04	-6.50	38.54	43.50	-4.96	Peak	HORIZONTAL
5	233.70	44.98	-7.08	37.90	46.00	-8.10	Peak	HORIZONTAL
6	747.80	27.45	4.47	31.92	46.00	-14.08	Peak	HORIZONTAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx High ch Tested by : Barry Lee

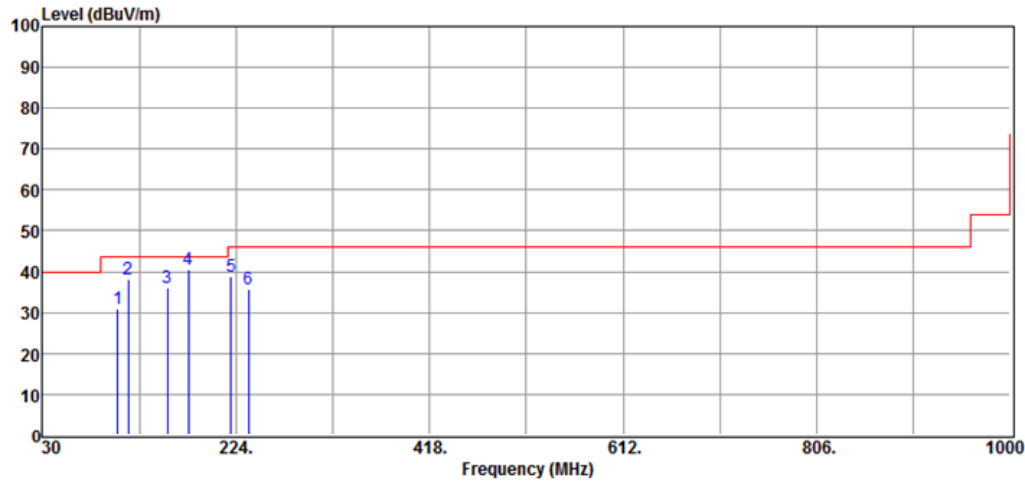


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	30.00	40.00	-7.02	32.98	40.00	-7.02	Peak	VERTICAL
2	61.04	43.44	-6.44	37.00	40.00	-3.00	Peak	VERTICAL
3	72.68	42.46	-8.48	33.98	40.00	-6.02	Peak	VERTICAL
4	119.24	40.61	-8.03	32.58	43.50	-10.92	Peak	VERTICAL
5	181.32	47.12	-6.69	40.43	43.50	-3.07	Peak	VERTICAL
6	198.78	42.82	-7.95	34.87	43.50	-8.63	Peak	VERTICAL

Factor= AF + CL - AG

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx High ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	105.66	40.17	-9.31	30.86	43.50	-12.64	Peak	HORIZONTAL
2	116.33	46.43	-8.39	38.04	43.50	-5.46	Peak	HORIZONTAL
3	155.13	41.08	-4.90	36.18	43.50	-7.32	Peak	HORIZONTAL
4	176.47	46.76	-6.10	40.66	43.50	-2.84	Peak	HORIZONTAL
5	219.15	46.72	-7.81	38.91	46.00	-7.09	Peak	HORIZONTAL
6	236.61	42.55	-6.70	35.85	46.00	-10.15	Peak	HORIZONTAL

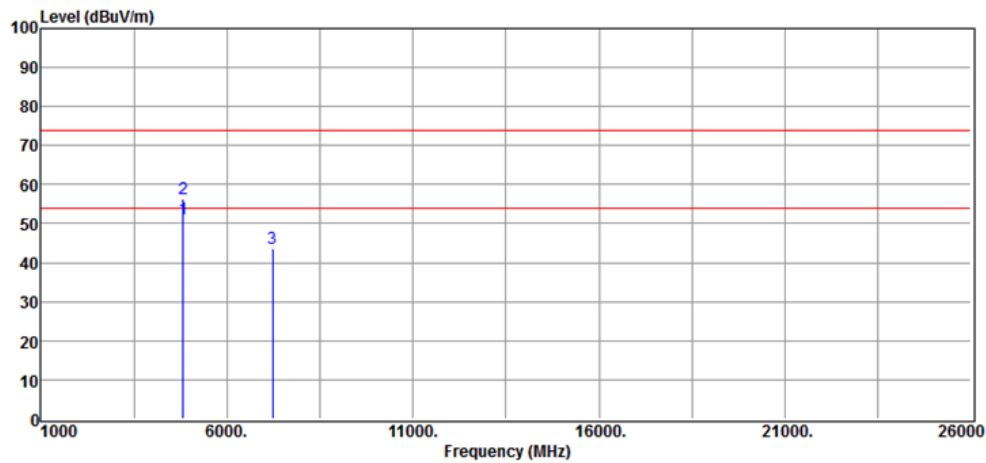
Factor= AF + CL - AG

7.4.3 Radiated Spurious Emission Measurement Result (above1GHz)



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode Tx Low ch Tested by : Barry Lee



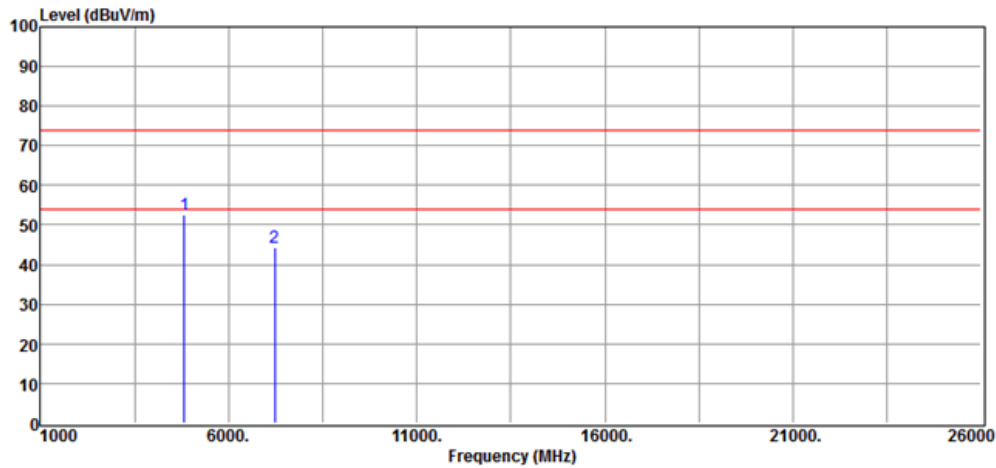
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4824.00	43.80	7.40	51.20	54.00(AV)	-2.80	Average	VERTICAL
2	4824.00	48.80	7.40	56.20	74.00	-17.80	Peak	VERTICAL
3	7236.00	33.35	10.27	43.62	54.00(AV)	-10.38	Average	VERTICAL
4	7236.00	33.35	10.27	43.62	74.00	-30.38	Peak	VERTICAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) 23/51
Test Mode: b mode Tx Low ch Tested by: Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4824.00	45.30	7.40	52.70	74.00	-21.30	Peak	HORIZONTAL
2	4824.00	45.30	7.40	52.70	54.00(AV)	-1.30	Peak	HORIZONTAL
3	7236.00	34.16	10.27	44.43	74.00	-29.57	Peak	HORIZONTAL
4	7236.00	34.16	10.27	44.43	54.00(AV)	-9.57	Peak	HORIZONTAL

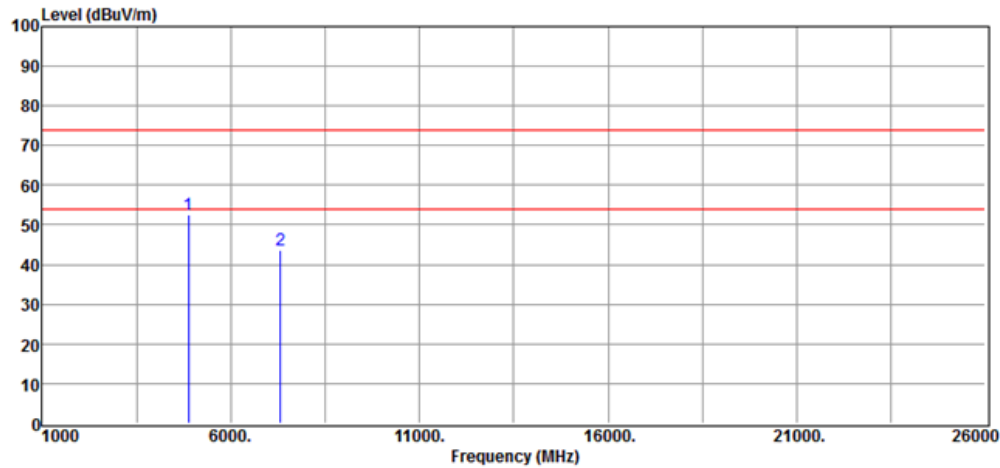
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : b mode Tx Mid ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	45.27	7.45	52.72	74.00	-21.28	Peak	VERTICAL
2	4874.00	45.27	7.45	52.72	54.00(AV)	-1.28	Peak	VERTICAL
3	7311.00	33.19	10.43	43.62	74.00	-30.38	Peak	VERTICAL
4	7311.00	33.19	10.43	43.62	54.00(AV)	-10.38	Peak	VERTICAL

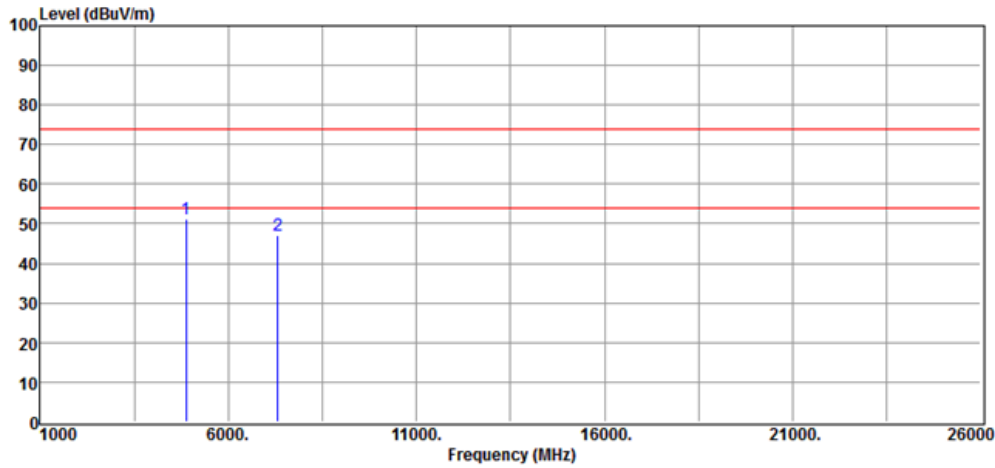
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : b mode Tx Mid ch → Tested by → : Barry Lee →



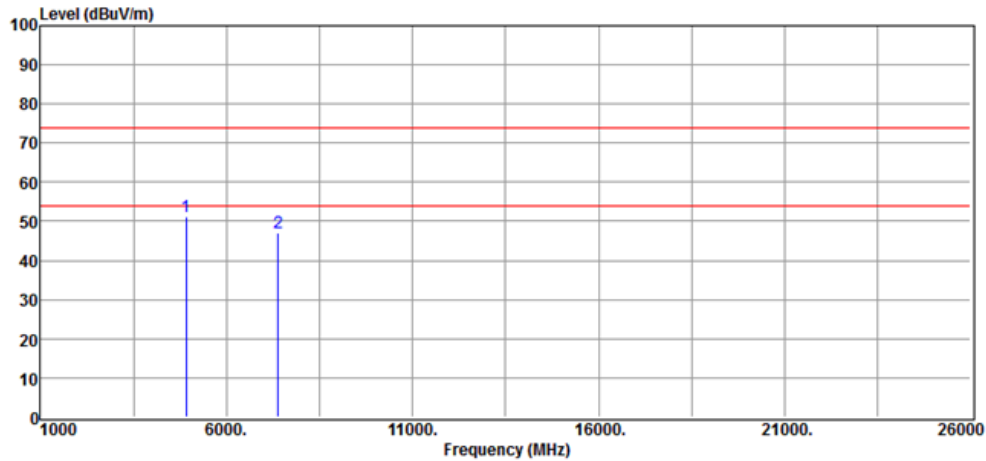
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	43.90	7.45	51.35	74.00	-22.65	Peak	HORIZONTAL
2	4874.00	43.90	7.45	51.35	54.00(AV)	-2.65	Peak	HORIZONTAL
3	7311.00	36.54	10.43	46.97	74.00	-27.03	Peak	HORIZONTAL
4	7311.00	36.54	10.43	46.97	54.00(AV)	-7.03	Peak	HORIZONTAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : b mode Tx High ch → Tested by → : Barry Lee →



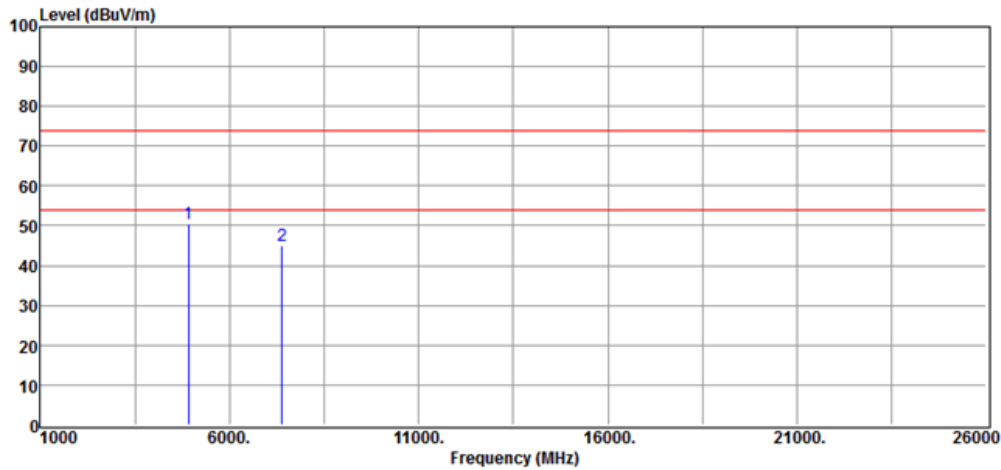
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4924.00	43.54	7.54	51.08	74.00	-22.92	Peak	VERTICAL
2	4924.00	43.54	7.54	51.08	54.00(AV)	-2.92	Peak	VERTICAL
3	7386.00	36.66	10.54	47.20	74.00	-26.80	Peak	VERTICAL
4	7386.00	36.66	10.54	47.20	54.00(AV)	-6.8	Peak	VERTICAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) 23/51
Test Mode: b mode Tx High ch Tested by: Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Po1 V/H
1	4924.00	42.98	7.54	50.52	74.00	-23.48	Peak	HORIZONTAL
2	4924.00	42.98	7.54	50.52	54.00(AV)	-3.48	Peak	HORIZONTAL
3	7386.00	34.52	10.54	45.06	74.00	-28.94	Peak	HORIZONTAL
4	7386.00	34.52	10.54	45.06	54.00(AV)	-8.94	Peak	HORIZONTAL

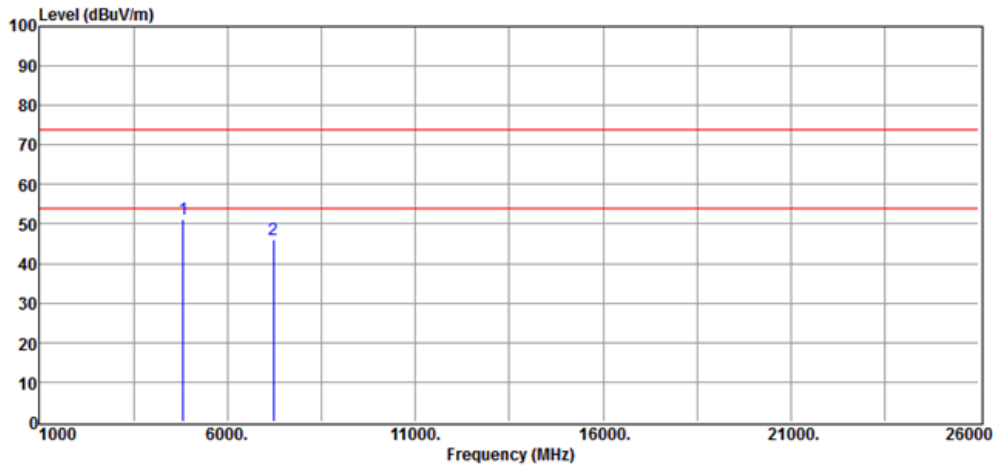
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Low ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4824.00	43.67	7.40	51.07	74.00	-22.93	Peak	VERTICAL
2	4824.00	43.67	7.40	51.07	54.00(AV)	-2.93	Peak	VERTICAL
3	7236.00	35.78	10.27	46.05	74.00	-27.95	Peak	VERTICAL
4	7236.00	35.78	10.27	46.05	54.00(AV)	-7.95	Peak	VERTICAL

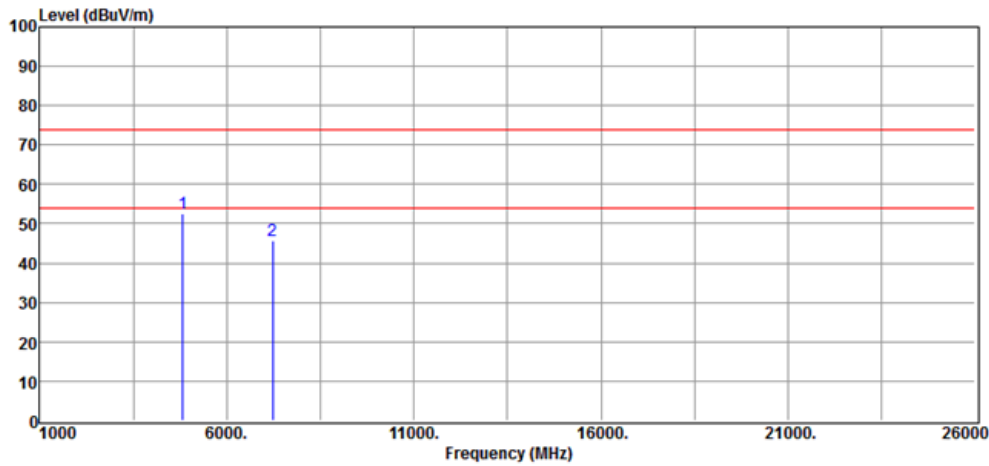
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g-mode Tx Low ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4824.00	45.33	7.40	52.73	74.00	-21.27	Peak	HORIZONTAL
2	4824.00	45.33	7.40	52.73	54.00(AV)	-1.27	Peak	HORIZONTAL
3	7236.00	35.55	10.27	45.82	74.00	-28.18	Peak	HORIZONTAL
4	7236.00	35.55	10.27	45.82	54.00(AV)	-8.18	Peak	HORIZONTAL

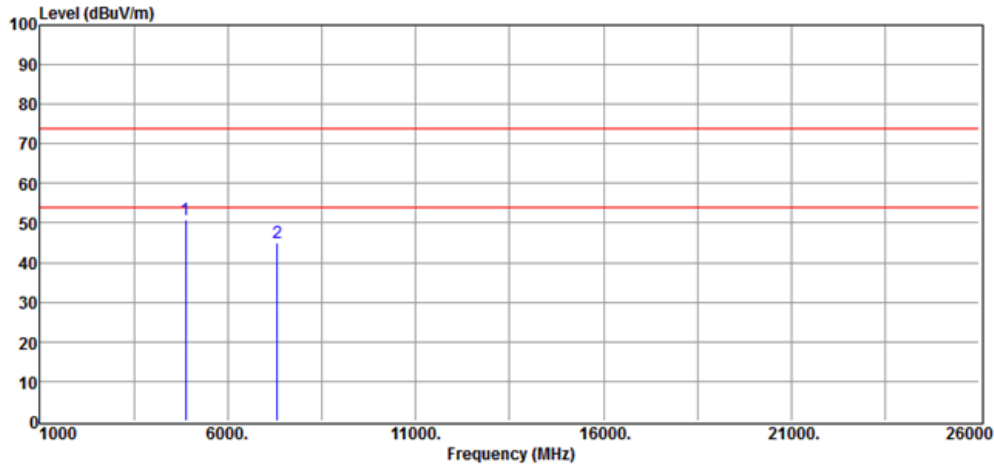
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : g mode Tx Mid ch → Tested by → : Barry Lee →



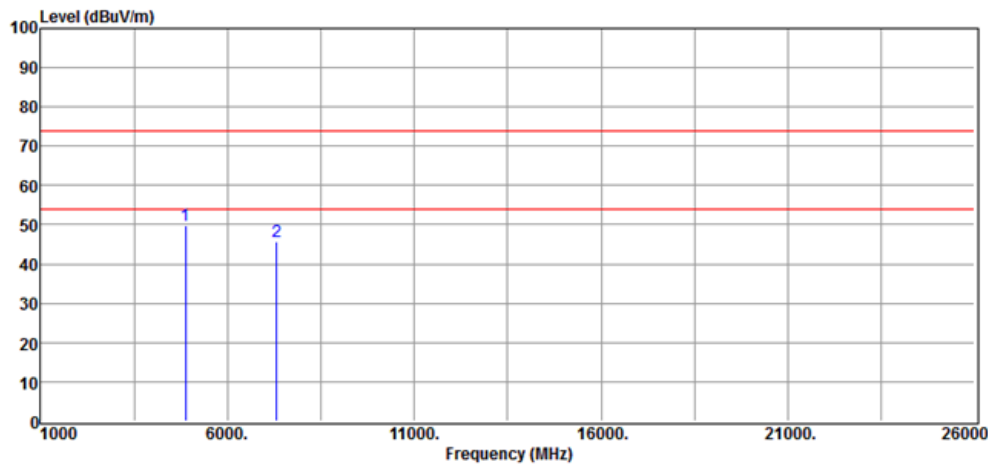
No.	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	43.40	7.45	50.85	74.00	-23.15	Peak	VERTICAL
2	4874.00	43.40	7.45	50.85	54.00(AV)	-3.15	Peak	VERTICAL
3	7311.00	34.56	10.43	44.99	74.00	-29.01	Peak	VERTICAL
4	7311.00	34.56	10.43	44.99	54.00(AV)	-9.01	Peak	VERTICAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx Mid ch Tested by : Barry Lee



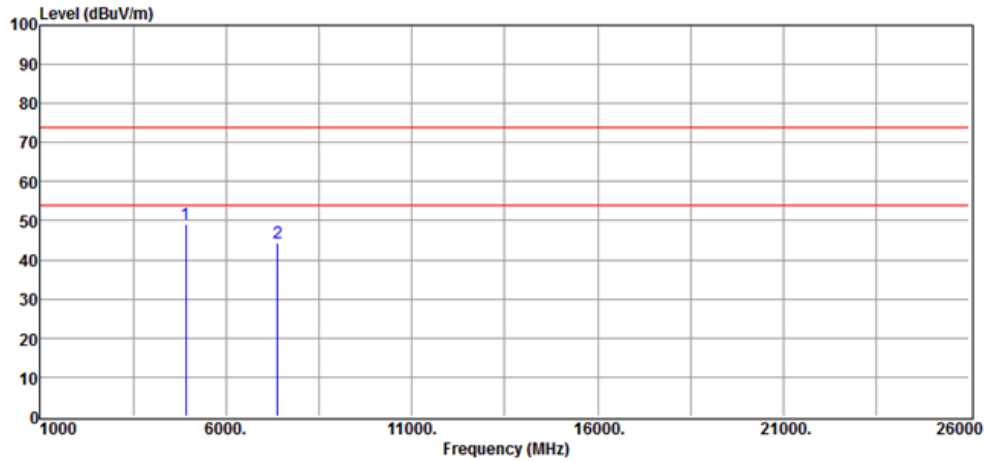
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	42.42	7.45	49.87	74.00	-24.13	Peak	HORIZONTAL
2	4874.00	42.42	7.45	49.87	54.00(AV)	-4.13	Peak	HORIZONTAL
3	7311.00	35.27	10.43	45.70	74.00	-28.30	Peak	HORIZONTAL
4	7311.00	35.27	10.43	45.70	54.00(AV)	-8.3	Peak	HORIZONTAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number.: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : g mode Tx High ch → Tested by → : Barry Lee →



No.	Freq. MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol. V/H
1	4924.00	41.44	7.54	48.98	74.00	-25.02	Peak	VERTICAL
2	4924.00	41.44	7.54	48.98	54.00(AV)	-5.02	Peak	VERTICAL
3	7386.00	33.76	10.54	44.30	74.00	-29.70	Peak	VERTICAL
4	7386.00	33.76	10.54	44.30	54.00(AV)	-9.7	Peak	VERTICAL

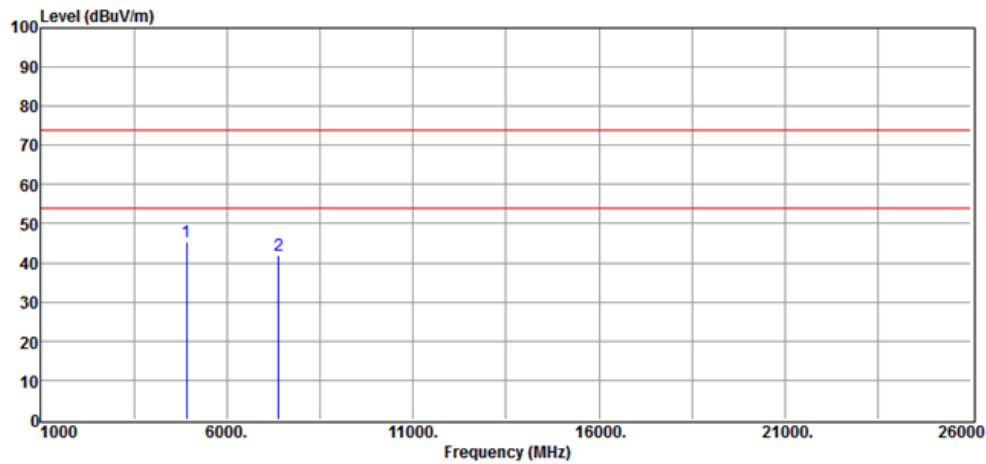
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode Tx High ch Tested by : Barry Lee



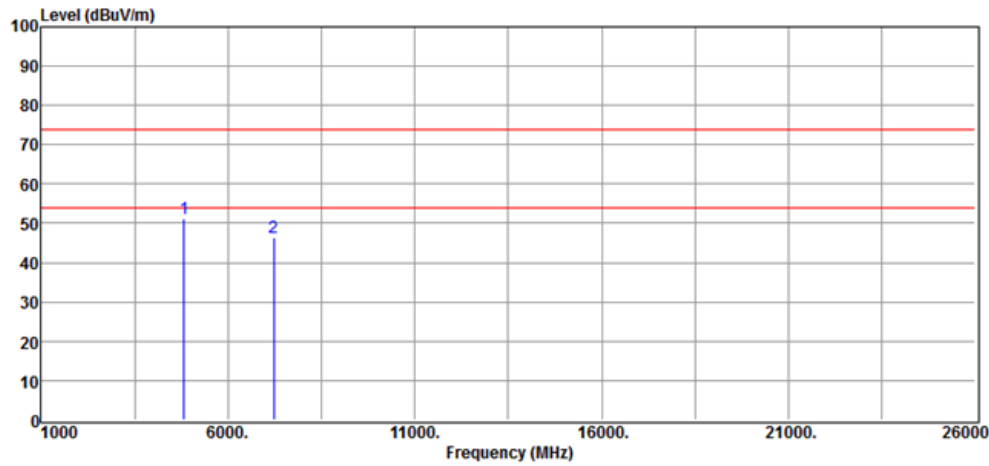
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4924.00	37.93	7.54	45.47	74.00	-28.53	Peak	HORIZONTAL
2	4924.00	37.93	7.54	45.47	54.00(AV)	-8.53	Peak	HORIZONTAL
3	7386.00	31.55	10.54	42.09	74.00	-31.91	Peak	HORIZONTAL
4	7386.00	31.55	10.54	42.09	54.00(AV)	-11.91	Peak	HORIZONTAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Low ch Tested by : Barry Lee



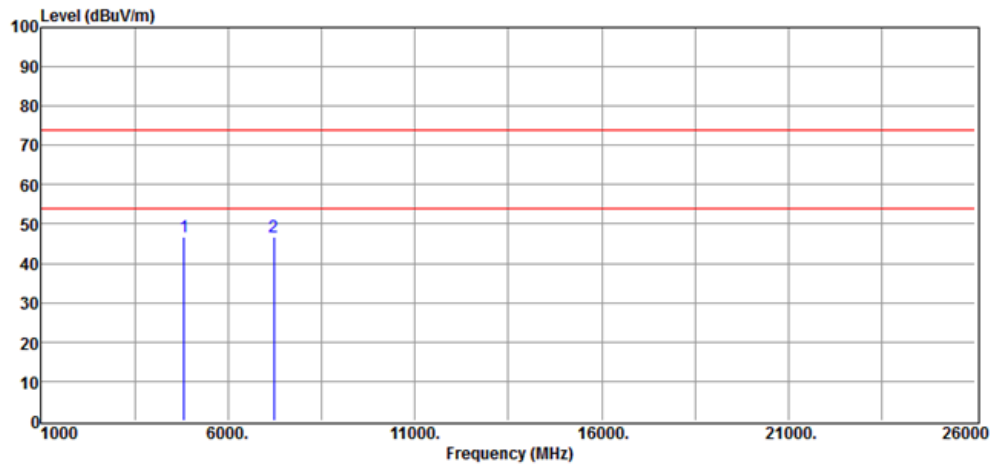
No.	Freq. MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol. V/H
1	4824.00	43.72	7.40	51.12	74.00	-22.88	Peak	VERTICAL
2	4824.00	43.72	7.40	51.12	54.00(AV)	-2.88	Peak	VERTICAL
3	7236.00	36.03	10.27	46.30	74.00	-27.70	Peak	VERTICAL
4	7236.00	36.03	10.27	46.30	54.00(AV)	-7.70	Peak	VERTICAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
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Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) 23/51
Test Mode : n20 mode Tx Low ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4824.00	39.36	7.40	46.76	74.00	-27.24	Peak	HORIZONTAL
2	4824.00	39.36	7.40	46.76	54.00(AV)	-7.24	Peak	HORIZONTAL
3	7236.00	36.35	10.27	46.62	74.00	-27.38	Peak	HORIZONTAL
4	7236.00	36.35	10.27	46.62	54.00(AV)	-7.38	Peak	HORIZONTAL

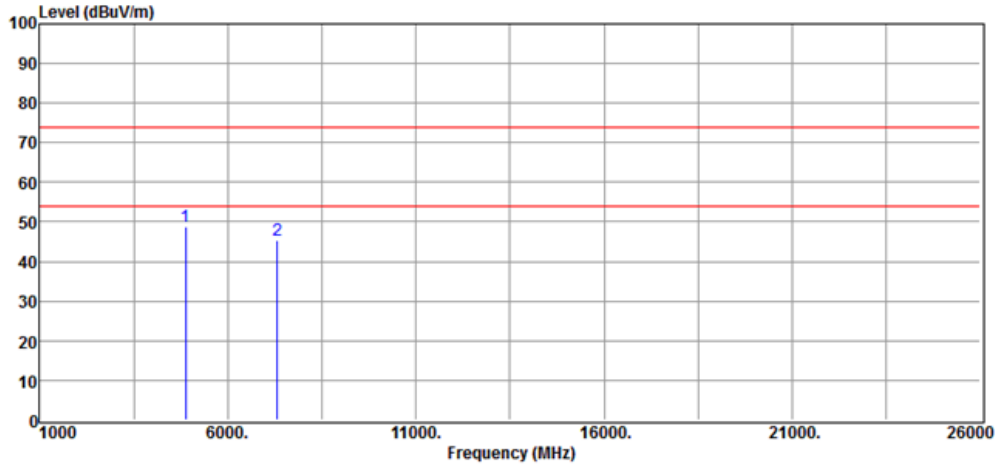
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
..... Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number. → : 23LR0029 → Temp.(°C)/RH(%) → : 23/51 →
Test Mode → : n20 mode Tx Mid ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	41.30	7.45	48.75	74.00	-25.25	Peak	VERTICAL
2	4874.00	41.30	7.45	48.75	54.00(AV)	-5.25	Peak	VERTICAL
3	7311.00	34.94	10.43	45.37	74.00	-28.63	Peak	VERTICAL
4	7311.00	34.94	10.43	45.37	54.00(AV)	-8.63	Peak	VERTICAL

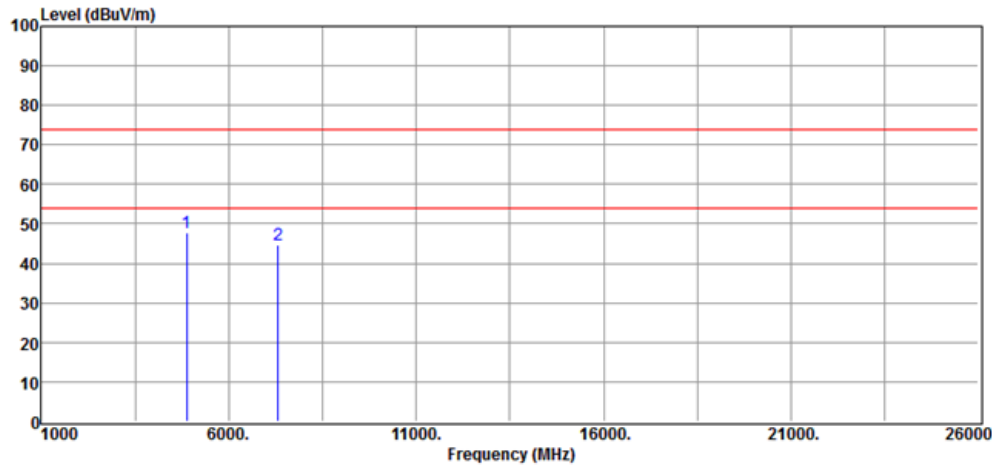
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin-Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode Tx Mid ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	40.43	7.45	47.88	74.00	-26.12	Peak	HORIZONTAL
2	4874.00	40.43	7.45	47.88	54.00(AV)	-6.12	Peak	HORIZONTAL
3	7311.00	34.39	10.43	44.82	74.00	-29.18	Peak	HORIZONTAL
4	7311.00	34.39	10.43	44.82	54.00(AV)	-9.18	Peak	HORIZONTAL

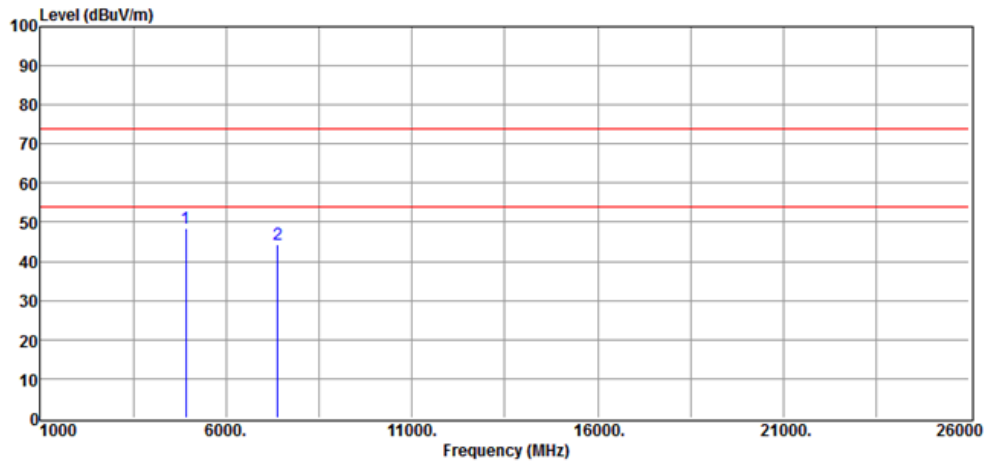
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : n20 mode Tx High ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4924.00	40.88	7.54	48.42	74.00	-25.58	Peak	VERTICAL
2	4924.00	40.88	7.54	48.42	54.00(AV)	-5.58	Peak	VERTICAL
3	7386.00	33.96	10.54	44.50	74.00	-29.50	Peak	VERTICAL
4	7386.00	33.96	10.54	44.50	54.00(AV)	-9.5	Peak	VERTICAL

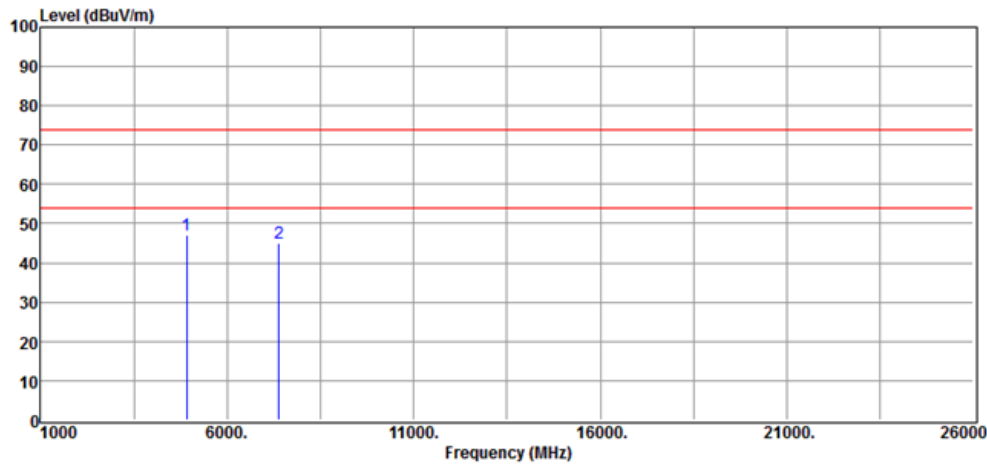
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number. → : 23LR0029 → Temp.(°C)/RH(%) → : 23/51 →
Test Mode → : n20 mode Tx High ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4924.00	39.67	7.54	47.21	74.00	-26.79	Peak	HORIZONTAL
2	4924.00	39.67	7.54	47.21	54.00(AV)	-6.79	Peak	HORIZONTAL
3	7386.00	34.52	10.54	45.06	74.00	-28.94	Peak	HORIZONTAL
4	7386.00	34.52	10.54	45.06	54.00(AV)	-8.94	Peak	HORIZONTAL

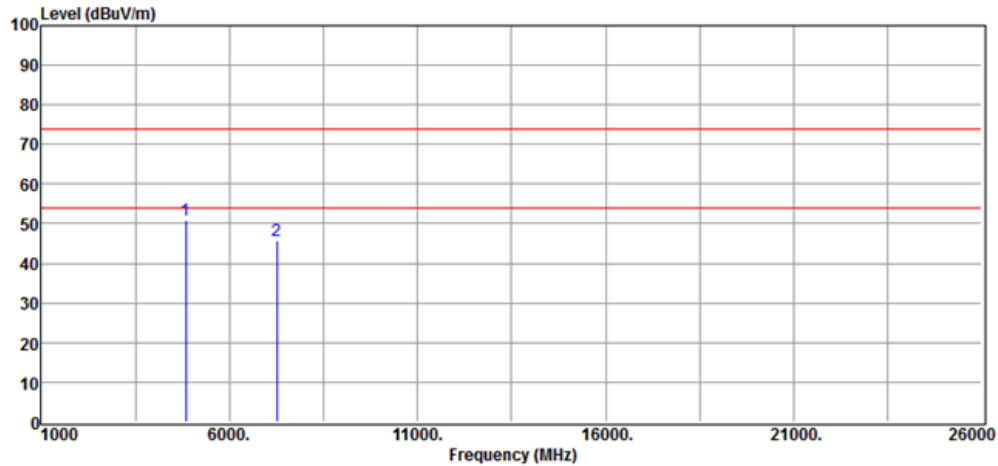
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.,
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number. → : 23LR0029 → Temp. (°C)/RH(%) → : 23/51 →
Test Mode → : n40 mode Tx Low ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4844.00	43.29	7.42	50.71	74.00	-23.29	Peak	VERTICAL
2	4844.00	43.29	7.42	50.71	54.00(AV)	-3.29	Peak	VERTICAL
3	7266.00	35.51	10.32	45.83	74.00	-28.17	Peak	VERTICAL
4	7266.00	35.51	10.32	45.83	54.00(AV)	-8.17	Peak	VERTICAL

Factor= AF + CL - AG

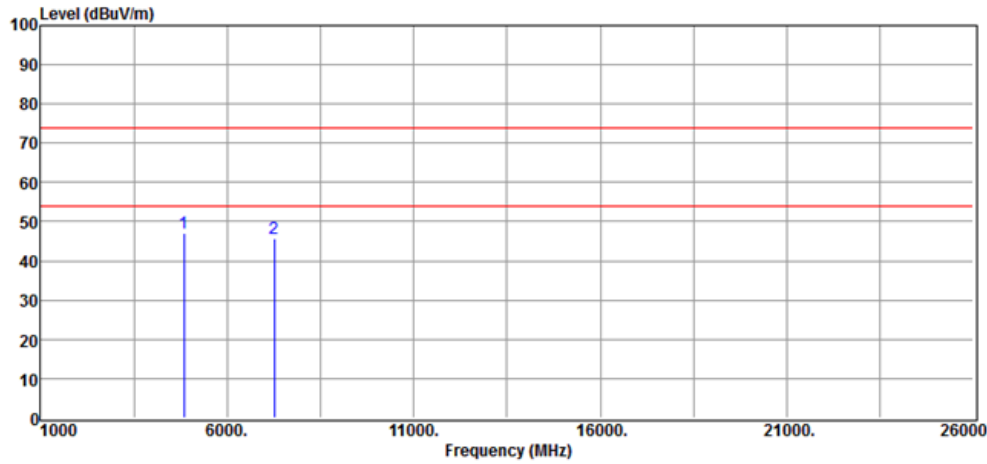


International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51

Test Mode : n40 mode Tx Low ch Tested by : Barry Lee



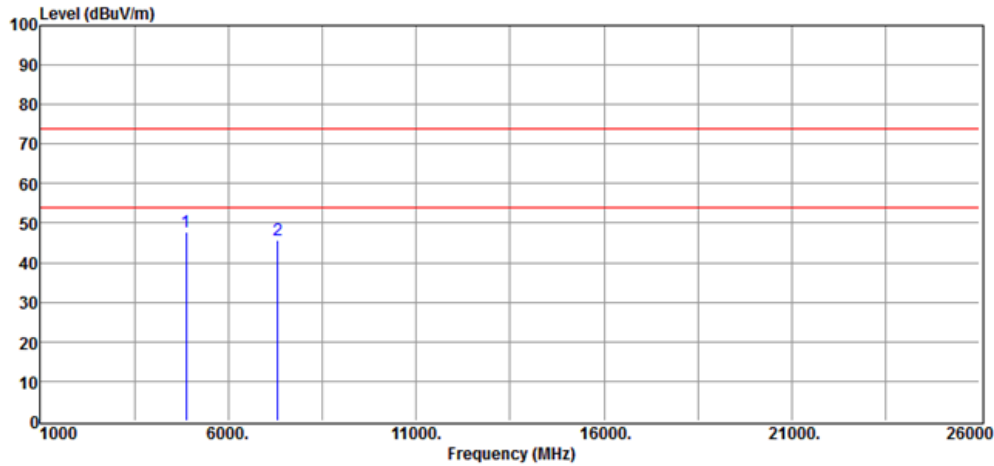
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4844.00	39.51	7.42	46.93	74.00	-27.07	Peak	HORIZONTAL
2	4844.00	39.51	7.42	46.93	54.00(AV)	-7.07	Peak	HORIZONTAL
3	7266.00	35.56	10.32	45.88	74.00	-28.12	Peak	HORIZONTAL
4	7266.00	35.56	10.32	45.88	54.00(AV)	-8.12	Peak	HORIZONTAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
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..... Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 → Temp.(°C)/RH(%) → 23/51 →
Test Mode → : n40 mode Tx Mid ch → Tested by → : Barry Lee →



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	40.17	7.45	47.62	74.00	-26.38	Peak	VERTICAL
2	4874.00	40.17	7.45	47.62	54.00(AV)	-6.38	Peak	VERTICAL
3	7311.00	35.43	10.43	45.86	74.00	-28.14	Peak	VERTICAL
4	7311.00	35.43	10.43	45.86	54.00(AV)	-8.14	Peak	VERTICAL

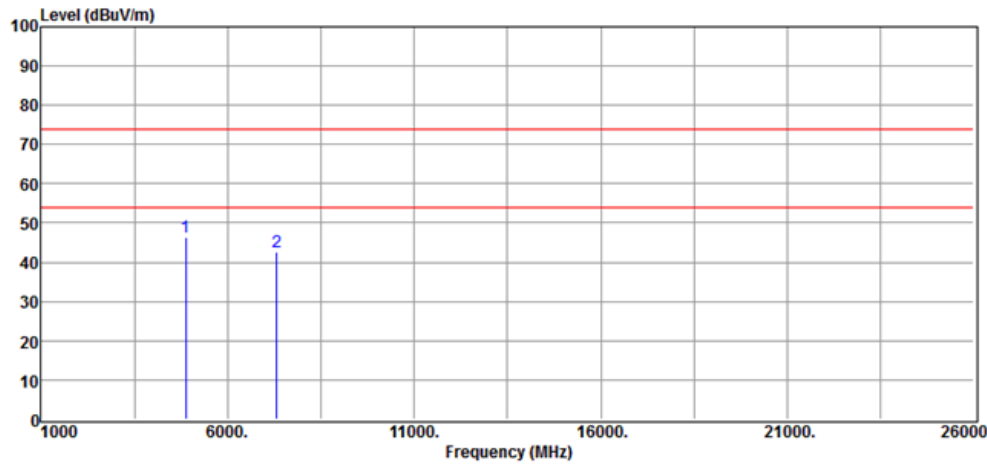
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Mid ch Tested by : Barry Lee



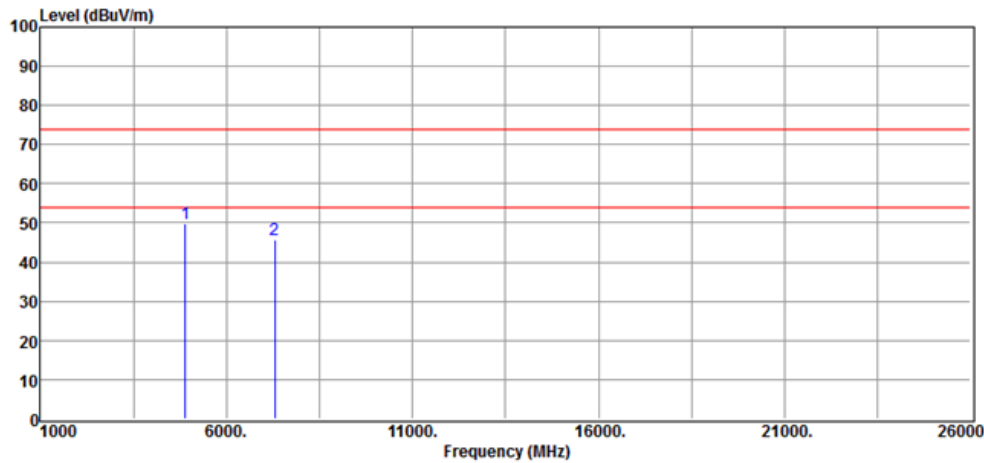
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	39.07	7.45	46.52	74.00	-27.48	Peak	HORIZONTAL
2	7311.00	32.05	10.43	42.48	74.00	-31.52	Peak	HORIZONTAL

Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan
Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx High ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4904.00	42.26	7.48	49.74	74.00	-24.26	Peak	VERTICAL
2	4904.00	42.26	7.48	49.74	54.00(AV)	-4.26	Peak	VERTICAL
3	7306.00	35.24	10.42	45.66	74.00	-28.34	Peak	VERTICAL
4	7306.00	35.24	10.42	45.66	54.00(AV)	-8.34	Peak	VERTICAL

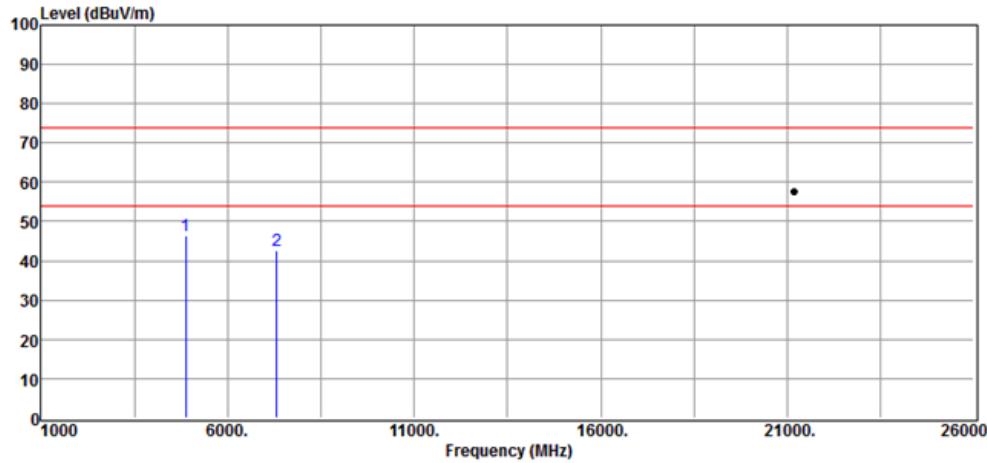
Factor= AF + CL - AG



International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao-Yuan City 325, Taiwan

Date: 2023-03-15

Project Number: 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode Tx Mid ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	4874.00	39.07	7.45	46.52	74.00	-27.48	Peak	HORIZONTAL
	4874.00	39.07	7.45	46.52	54.00(AV)	-7.48	Peak	HORIZONTAL
2	7311.00	32.05	10.43	42.48	74.00	-31.52	Peak	HORIZONTAL
	7311.00	32.05	10.43	42.48	54.00(AV)	-11.52	Peak	HORIZONTAL

Factor= AF + CL - AG

8. 100kHz Bandwidth of Band Edges Measurement

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW=1MHz, VBW $\geq$ 3*RBW (for Peak); VBW $\geq$ 1/T_{on} (for Average), Sweep = auto.
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

8.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

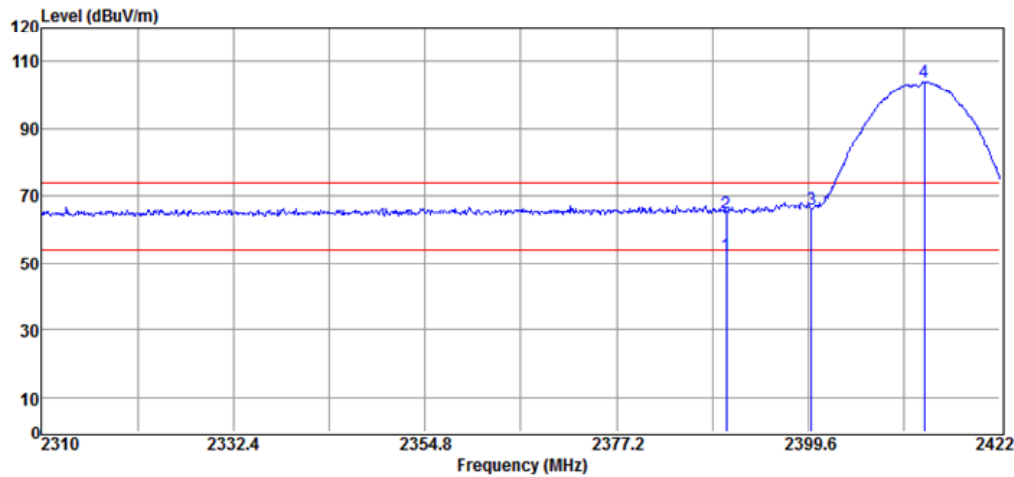
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

8.4 Measurement Result

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan

Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode bandedge low ch Tested by : Barry Lee

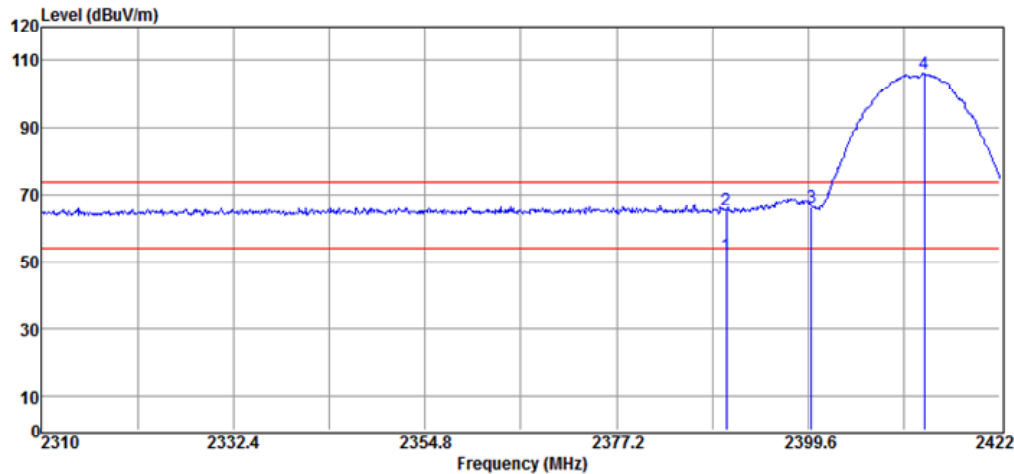


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	14.34	37.97	52.31	54.00	-1.69	Average	VERTICAL
2	2390.00	26.98	37.97	64.95	74.00	-9.05	Peak	VERTICAL
3	2400.00	27.92	38.05	65.97	83.93	-17.96	Peak	VERTICAL
4	2413.15	65.84	38.09	103.93	F	--	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode bandedge low ch Tested by : Barry Lee

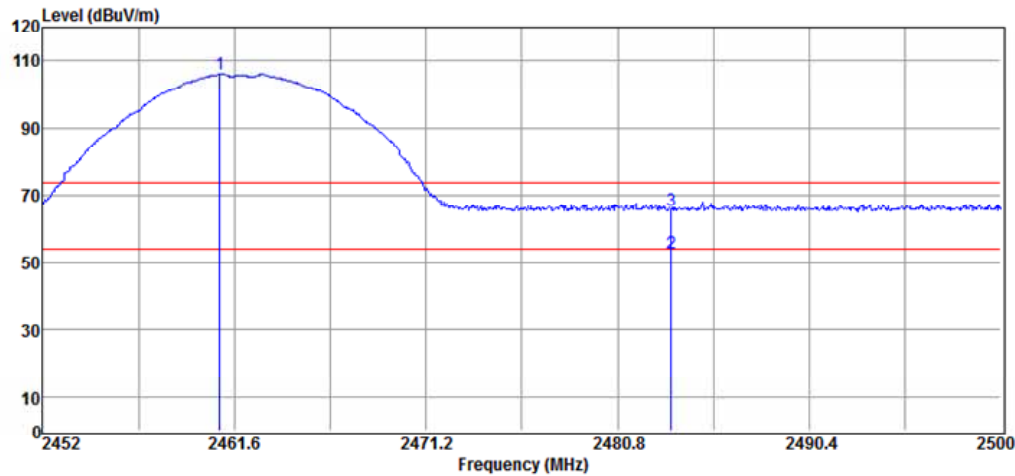


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	14.13	37.97	52.10	54.00	-1.90	Average	HORIZONTAL
2	2390.00	27.41	37.97	65.38	74.00	-8.62	Peak	HORIZONTAL
3	2400.00	28.29	38.05	66.34	85.92	-19.58	Peak	HORIZONTAL
4	2413.15	67.83	38.09	105.92	F	--	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode bandedge High ch Tested by : Barry Lee

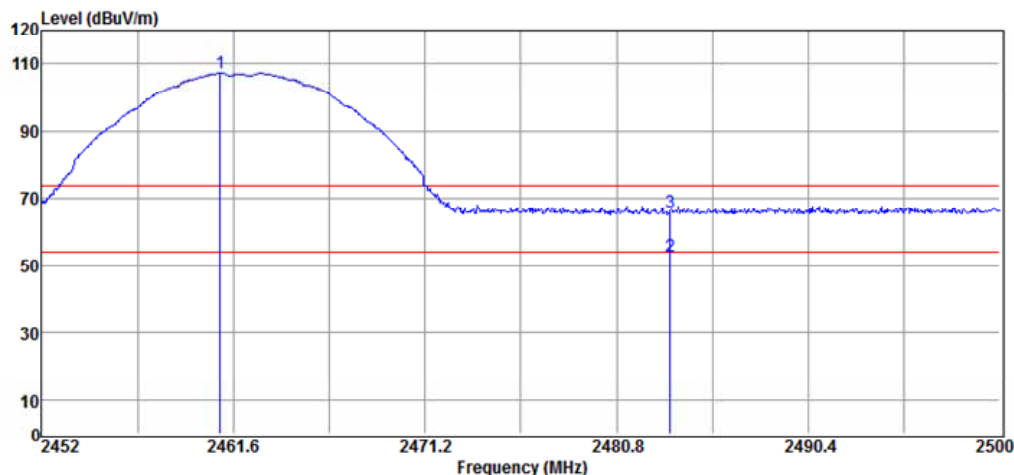


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2460.88	67.66	38.27	105.93	F	--	Peak	VERTICAL
2	2483.50	14.33	38.39	52.72	54.00	-1.28	Average	VERTICAL
3	2483.50	27.16	38.39	65.55	74.00	-8.45	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : b mode bandedge High ch Tested by : Barry Lee

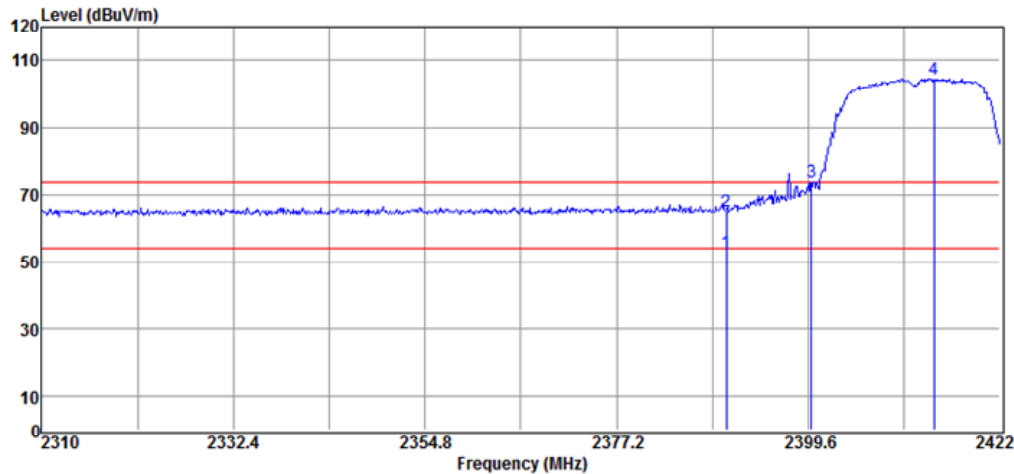


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2460.93	68.91	38.27	107.18	F	--	Peak	HORIZONTAL
2	2483.50	14.41	38.39	52.80	54.00	-1.20	Average	HORIZONTAL
3	2483.50	27.64	38.39	66.03	74.00	-7.97	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode bandedge Low ch Tested by : Barry Lee

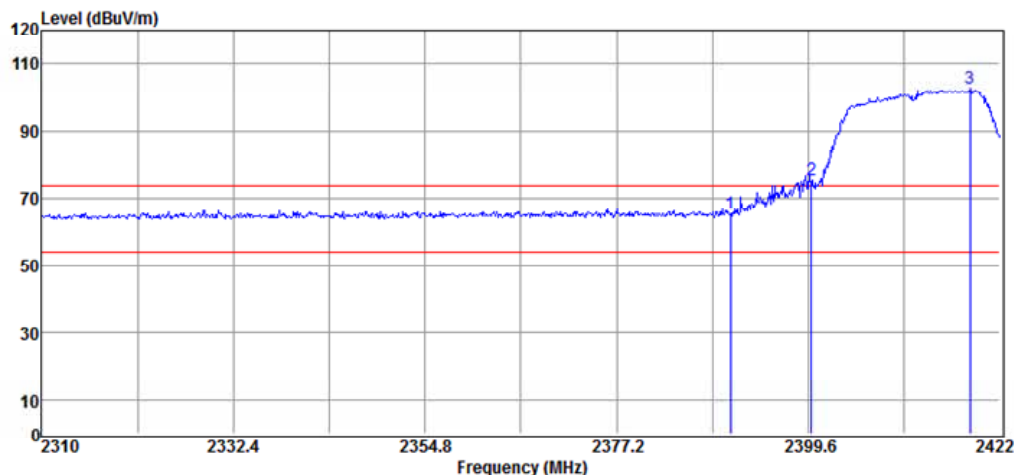


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	14.76	37.97	52.73	54.00	-1.27	Average	VERTICAL
2	2390.00	27.32	37.97	65.29	74.00	-8.71	Peak	VERTICAL
3	2400.00	35.72	38.05	73.77	84.46	-10.69	Peak	VERTICAL
4	2414.27	66.36	38.10	104.46	F	--	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode bandedge Low ch Tested by : Barry Lee

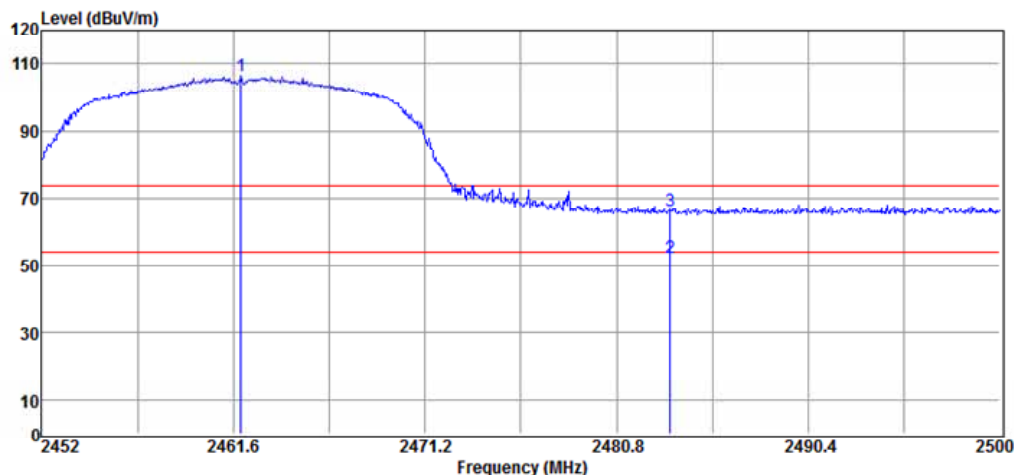


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.53	27.64	37.97	65.61	74.00	-8.39	Peak	HORIZONTAL
2	2400.00	37.51	38.05	75.56	82.67	-7.11	Peak	HORIZONTAL
3	2418.53	64.56	38.11	102.67	F	--	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address:No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode bandedge High ch Tested by : Barry Lee

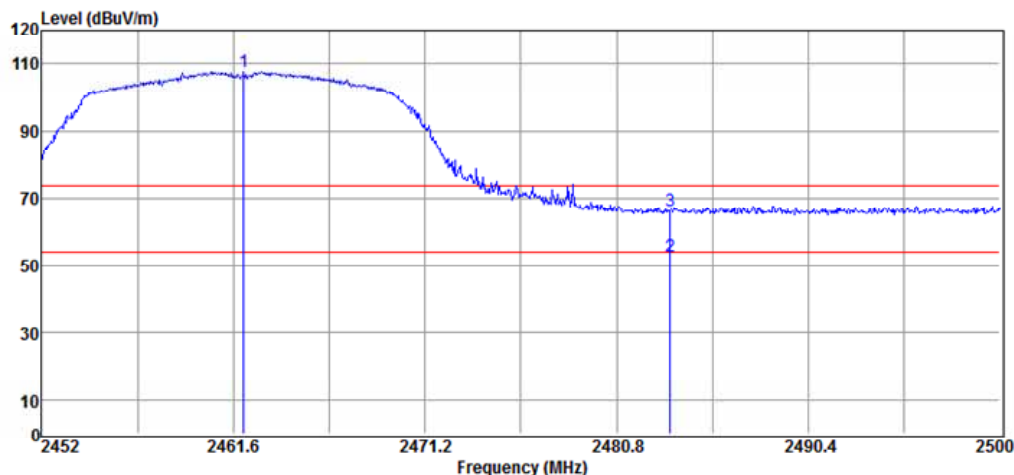


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2461.98	68.12	38.28	106.40	F	--	Peak	VERTICAL
2	2483.50	14.03	38.39	52.42	54.00	-1.58	Average	VERTICAL
3	2483.50	28.01	38.39	66.40	74.00	-7.60	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address:No.120,Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwa
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : g mode bandedge High ch Tested by : Barry Lee

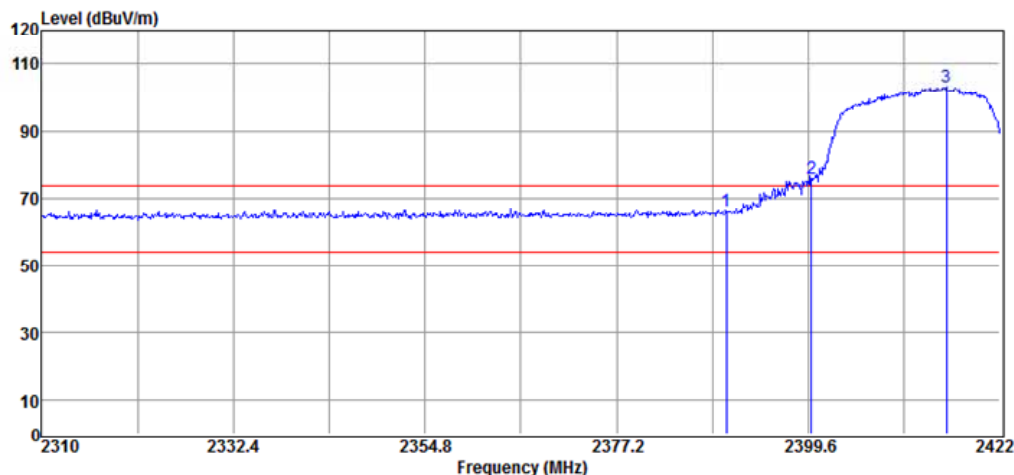


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2462.13	69.35	38.28	107.63	F	--	Peak	HORIZONTAL
2	2483.50	14.28	38.39	52.67	54.00	-1.33	Average	HORIZONTAL
3	2483.50	28.02	38.39	66.41	74.00	-7.59	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode bandedge Low ch Tested by : Barry Lee

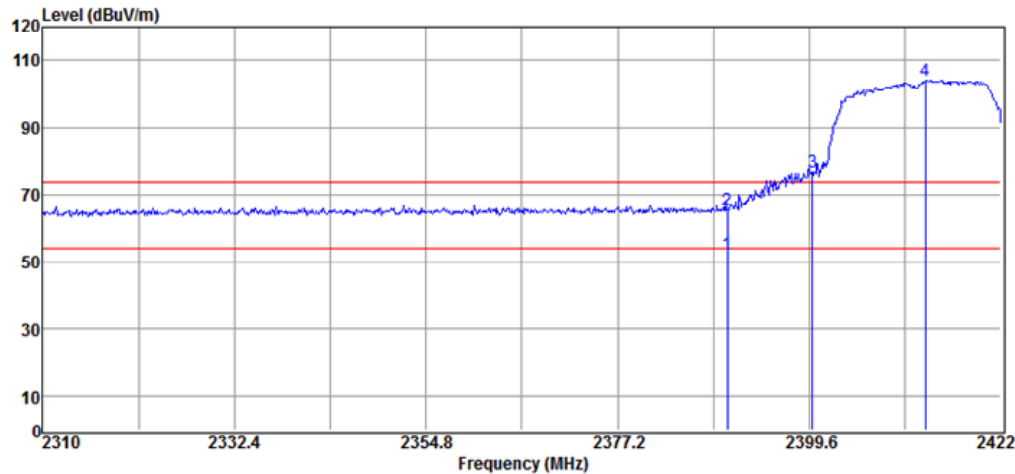


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	28.46	37.97	66.43	74.00	-7.57	Peak	VERTICAL
2	2400.00	37.92	38.05	75.97	82.89	-6.92	Peak	VERTICAL
3	2415.73	64.79	38.10	102.89	F	--	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode bandedge Low ch Tested by : Barry Lee

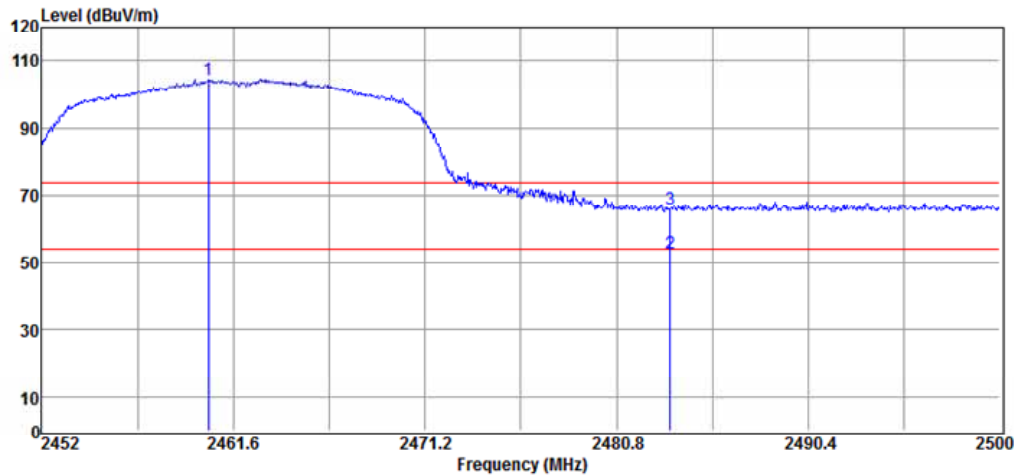


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	14.47	37.97	52.44	54.00	-1.56	Average	HORIZONTAL
2	2390.00	27.49	37.97	65.46	74.00	-8.54	Peak	HORIZONTAL
3	2400.00	38.81	38.05	76.86	83.88	-7.02	Peak	HORIZONTAL
4	2413.15	65.79	38.09	103.88	F	--	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode bandedge High ch Tested by : Barry Lee

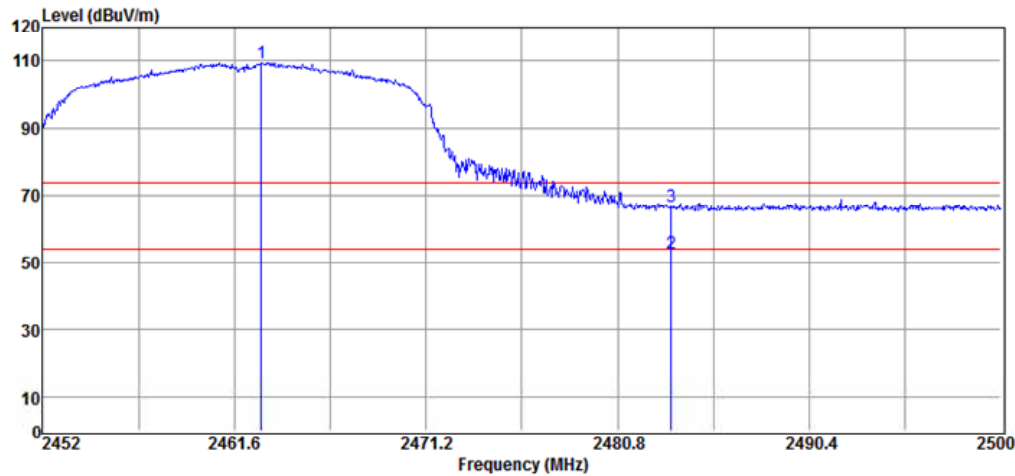


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2460.35	66.26	38.27	104.53	F	--	Peak	VERTICAL
2	2483.50	14.30	38.39	52.69	54.00	-1.31	Average	VERTICAL
3	2483.50	27.75	38.39	66.14	74.00	-7.86	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n20 mode bandedge High ch Tested by : Barry Lee

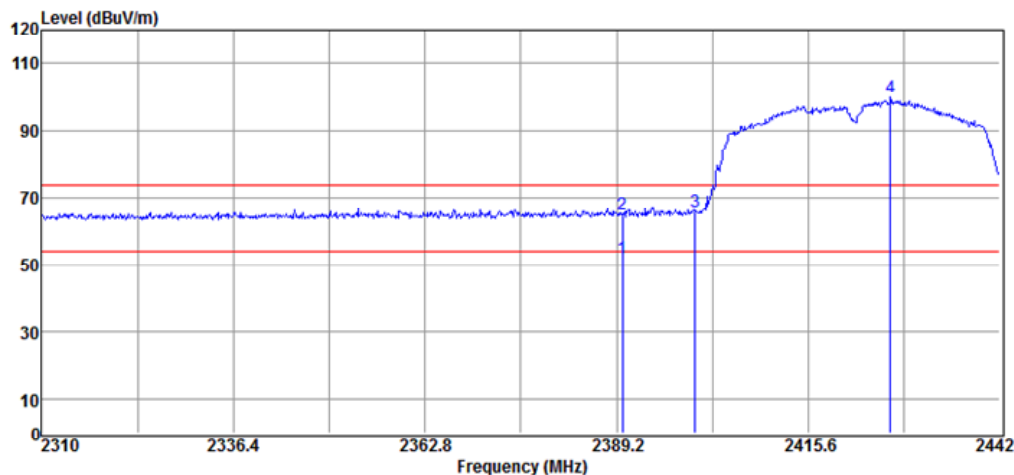


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2462.94	71.14	38.28	109.42	F	--	Peak	HORIZONTAL
2	2483.50	14.57	38.39	52.96	54.00	-1.04	Average	HORIZONTAL
3	2483.50	28.56	38.39	66.95	74.00	-7.05	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode bandedge Low ch Tested by : Barry Lee

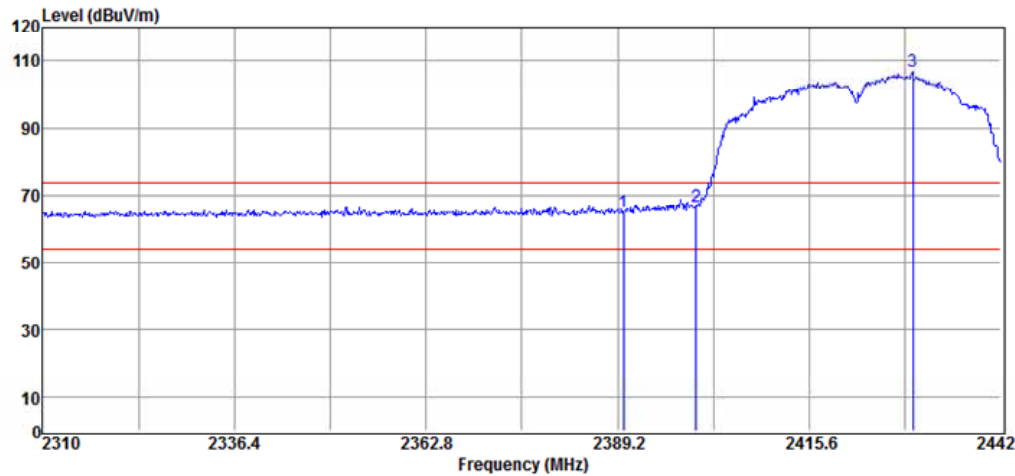


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	14.16	37.97	52.13	54.00	-1.87	Average	VERTICAL
2	2390.00	27.09	37.97	65.06	74.00	-8.94	Peak	VERTICAL
3	2400.00	28.13	38.05	66.18	79.74	-13.56	Peak	VERTICAL
4	2426.95	61.61	38.13	99.74	F	--	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode bandedge Low ch Tested by : Barry Lee

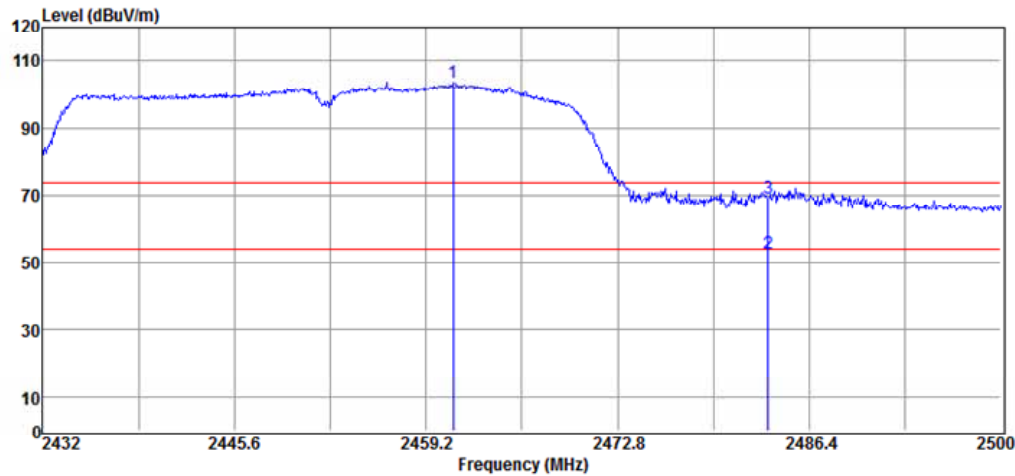


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	27.10	37.97	65.07	74.00	-8.93	Peak	HORIZONTAL
2	2400.00	28.55	38.05	66.60	86.83	-20.23	Peak	HORIZONTAL
3	2429.86	68.68	38.15	106.83	F	--	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode bandedge High ch Tested by : Barry Lee

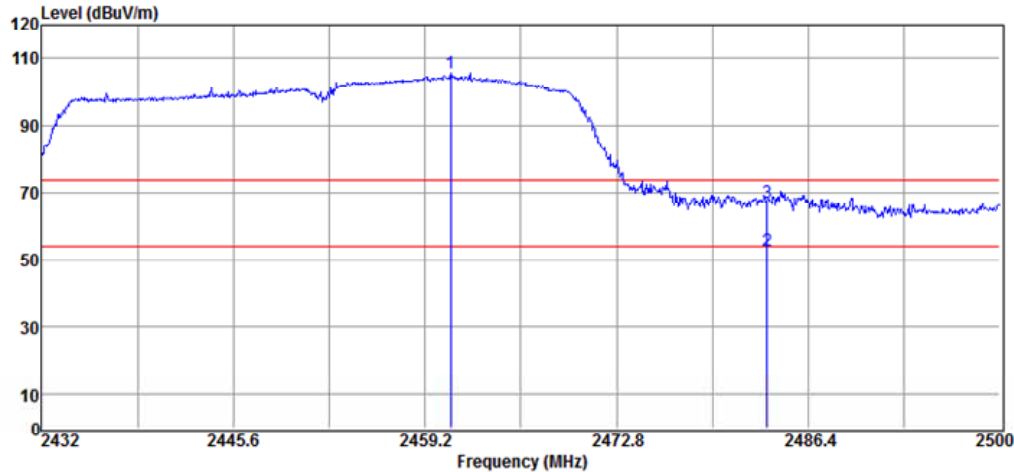


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2461.10	65.15	38.27	103.42	F	--	Peak	VERTICAL
2	2483.50	14.22	38.39	52.61	54.00	-1.39	Average	VERTICAL
3	2483.50	30.91	38.39	69.30	74.00	-4.70	Peak	VERTICAL

Note: "F" denotes fundamental frequency.

International Standard Laboratory Corp.
Company Address: No. 120, Lane 180, Hsin Ho Rd.
Lung-Tan Dist., Tao Yuan City 325, Taiwan
Date: 2023-03-15

Project Number. : 23LR0029 Temp.(°C)/RH(%) : 23/51
Test Mode : n40 mode bandedge High ch Tested by : Barry Lee



No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2461.04	67.16	38.27	105.43	F	--	Peak	HORIZONTAL
2	2483.50	14.33	38.39	52.72	54.00	-1.28	Average	HORIZONTAL
3	2483.50	28.98	38.39	67.37	74.00	-6.63	Peak	HORIZONTAL

Note: "F" denotes fundamental frequency.

9. 6dB Bandwidth

9.1 Standard Applicable

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

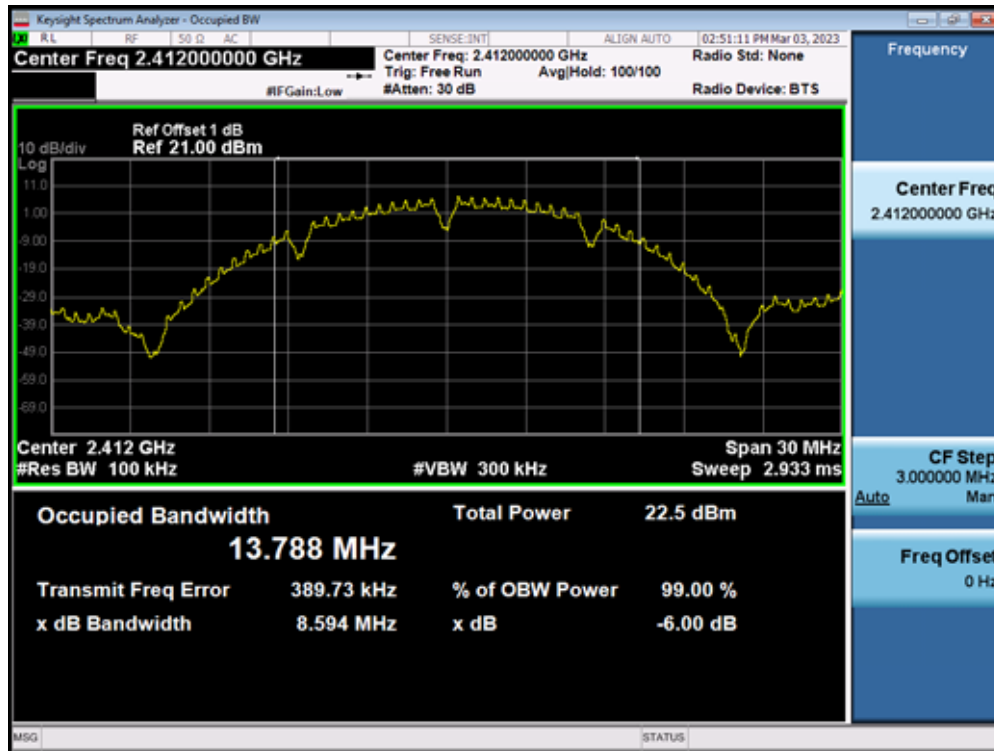
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
 - RBW = 100 kHz.
 - VBW $\geq 3 \times$ RBW.
 - Detector = Peak.
 - Trace mode = max hold.
 - Sweep = auto couple.
 - Allow the trace to stabilize.
 - Use 6-dB BW measurement function
4. Repeat above procedures until all frequency measured were complete.

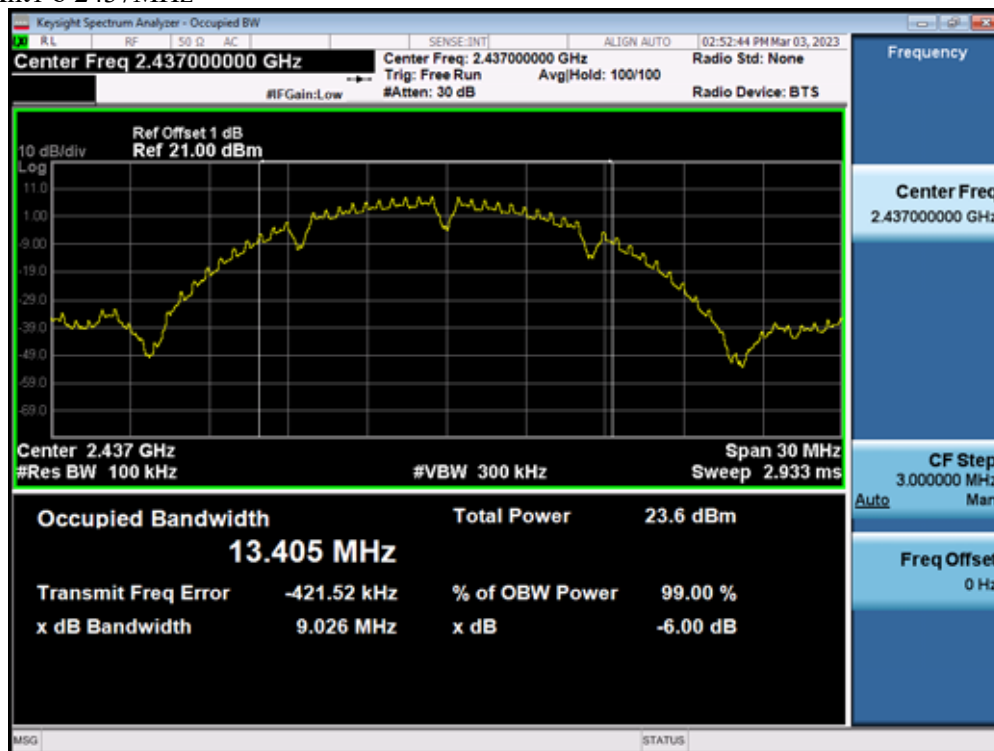
9.3 Measurement Result

Band	Frequency (MHz)	6dB Bandwidth (MHz)	6dB BW Limit (kHz)
802.11b	2412	8.594	> 500
	2437	9.026	> 500
	2462	7.576	> 500
802.11g	2412	15.758	> 500
	2437	15.735	> 500
	2462	13.869	> 500
802.11n HT20	2412	16.394	> 500
	2437	16.359	> 500
	2462	13.87	> 500
802.11n HT40	2422	20.061	> 500
	2437	33.844	> 500
	2452	35.163	> 500

Test Data: Ant1 b 2412MHz



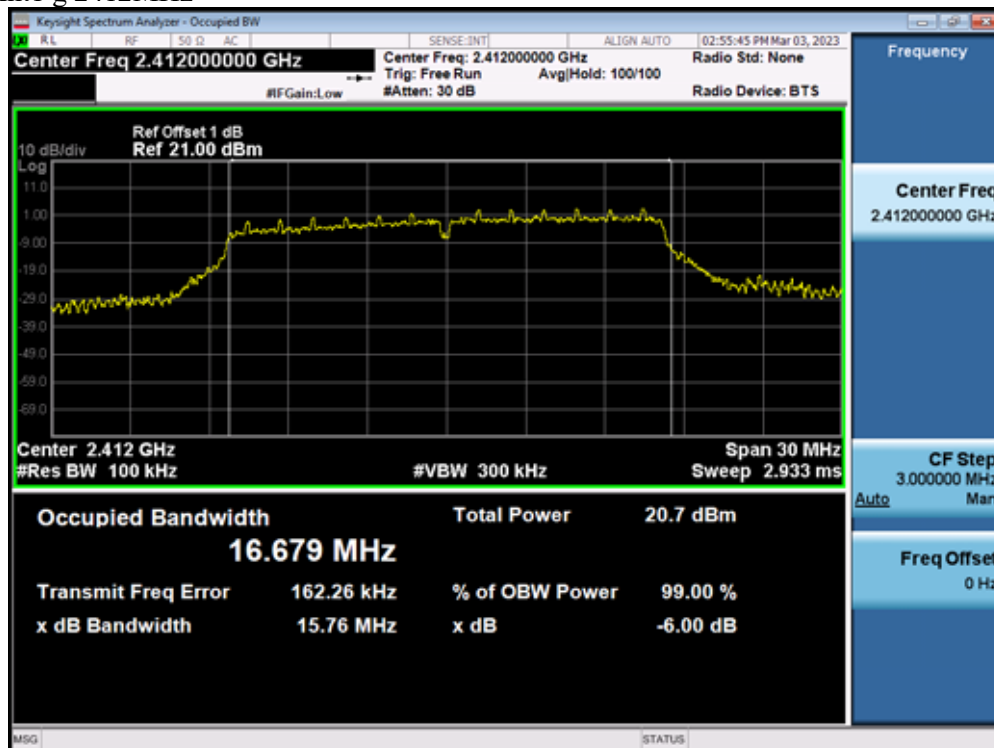
Test Data: Ant1 b 2437MHz



Test Data: Ant1 b 2462MHz



Test Data: Ant1 g 2412MHz



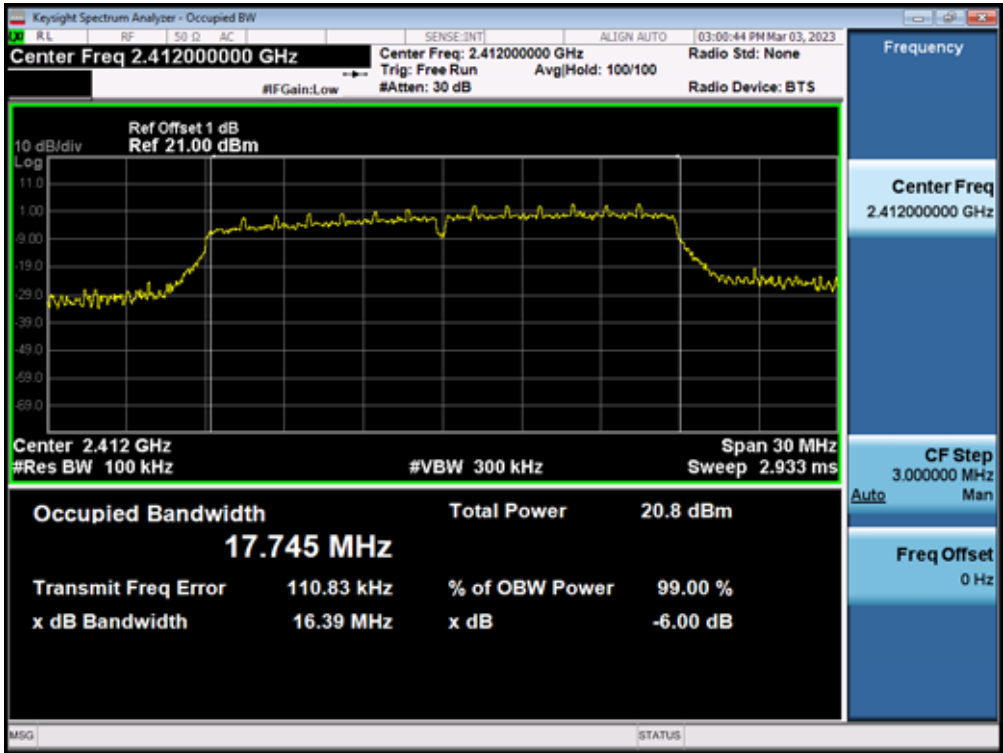
Test Data: Ant1 g 2437MHz



Test Data: Ant1 g 2462MHz



Test Data: Ant1 HT20 2412MHz



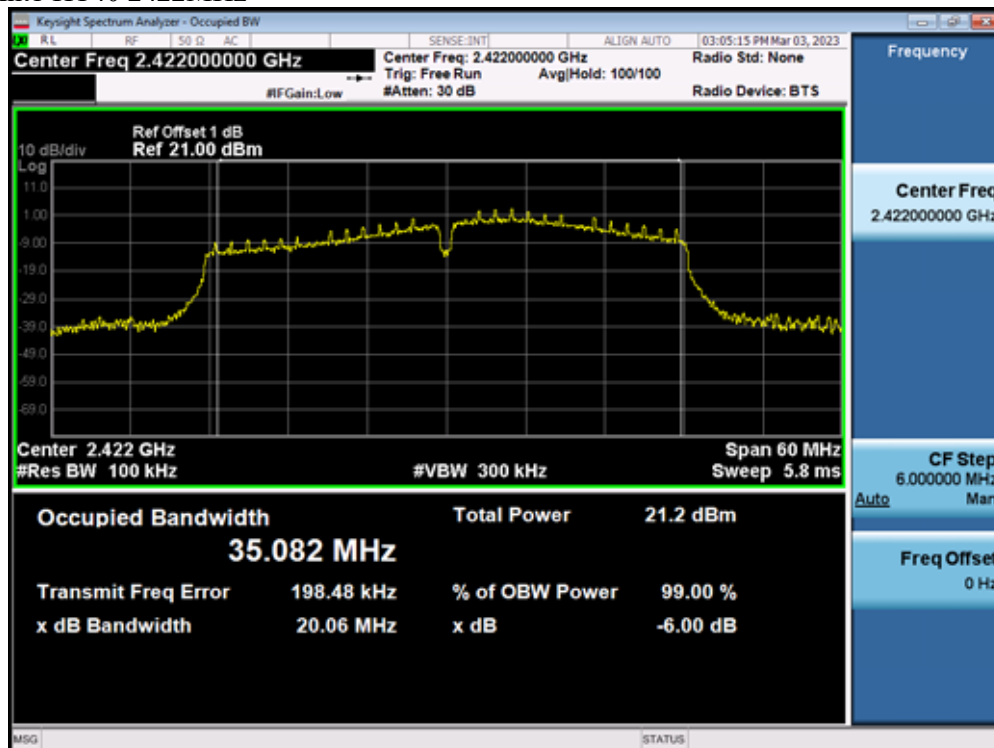
Test Data: Ant1 HT20 2437MHz



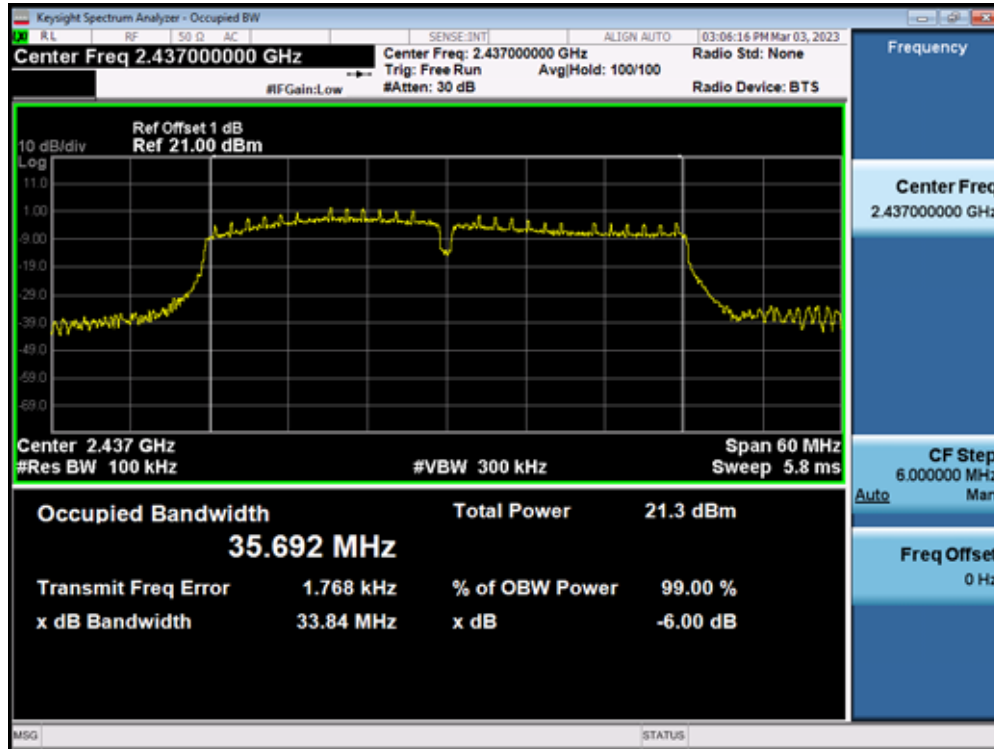
Test Data: Ant1 HT20 2462MHz



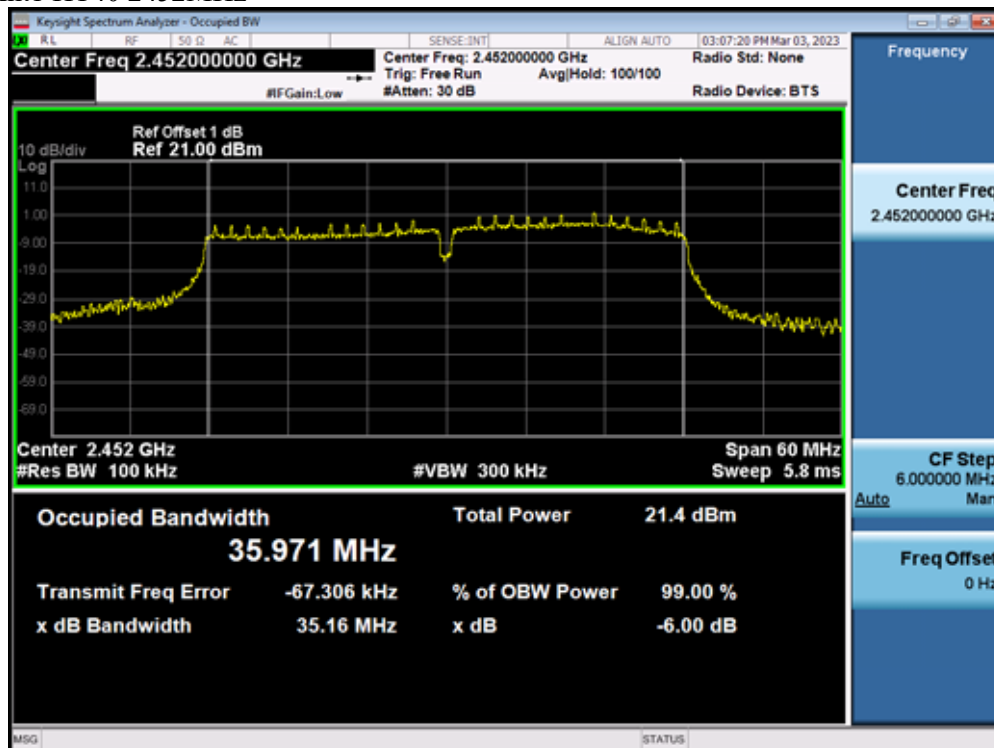
Test Data: Ant1 HT40 2422MHz



Test Data: Ant1 HT40 2437MHz



Test Data: Ant1 HT40 2452MHz



10. Peak Power Spectral Density

10.1 Standard Applicable

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

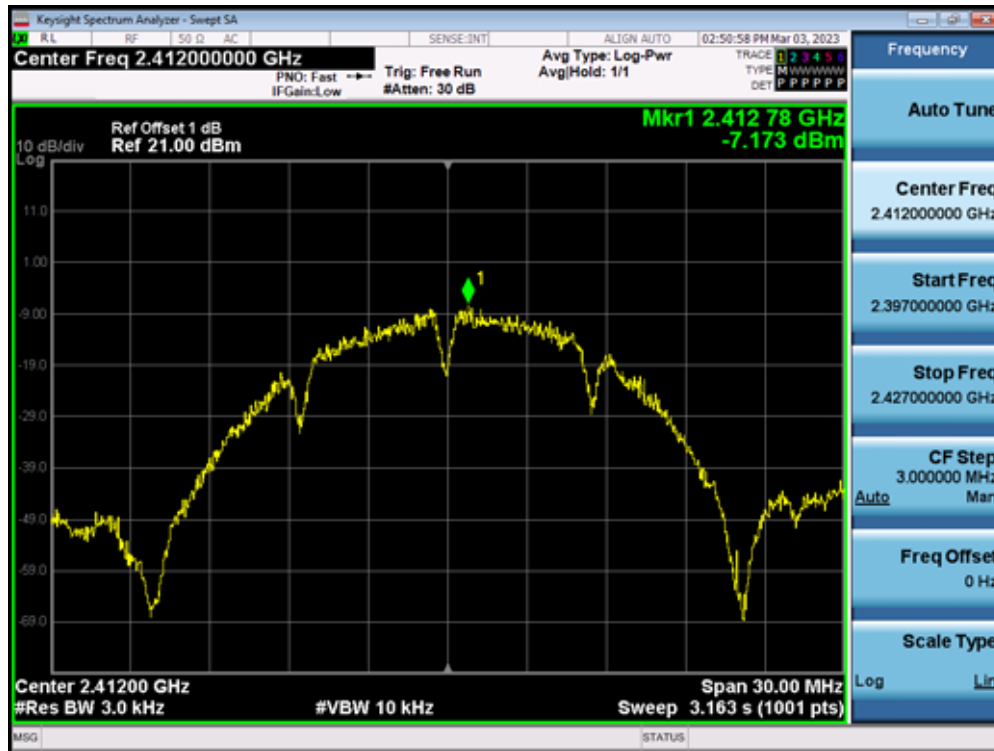
10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW =3kHz, VBW = 10kHz, Set the span to 1.5 DTS bandwidth., Sweep=Auto
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

10.3 Measurement Result

Mode	Freq. (MHz)	PSD (dBm/3kHz)				Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3		
802.11b	2412	-7.173				-7.173	8
	2437	-6.301				-6.301	8
	2462	-5.618				-5.618	8
802.11g	2412	-11.043				-11.043	8
	2437	-9.676				-9.676	8
	2462	-8.212				-8.212	8
802.11n HT20	2412	-11.011				-11.011	8
	2437	-9.703				-9.703	8
	2462	-10.166				-10.166	8
802.11n HT40	2422	-10.37				-10.37	8
	2437	-13.497				-13.497	8
	2452	-12.939				-12.939	8

Test Data: Ant1 b 2412MHz



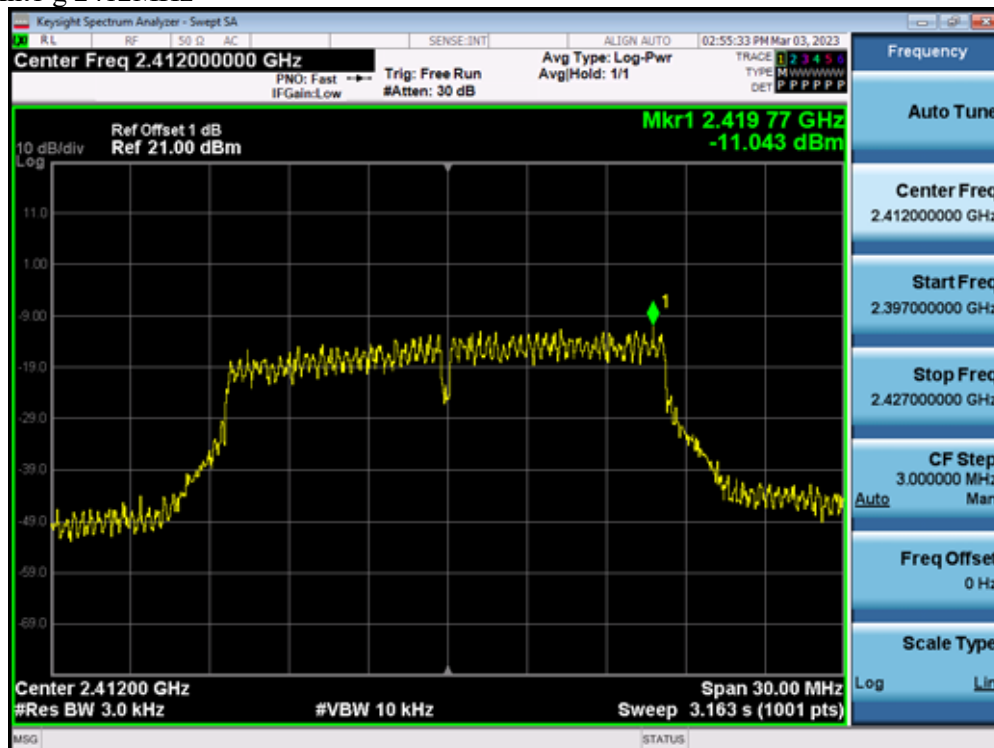
Test Data: Ant1 b 2437MHz



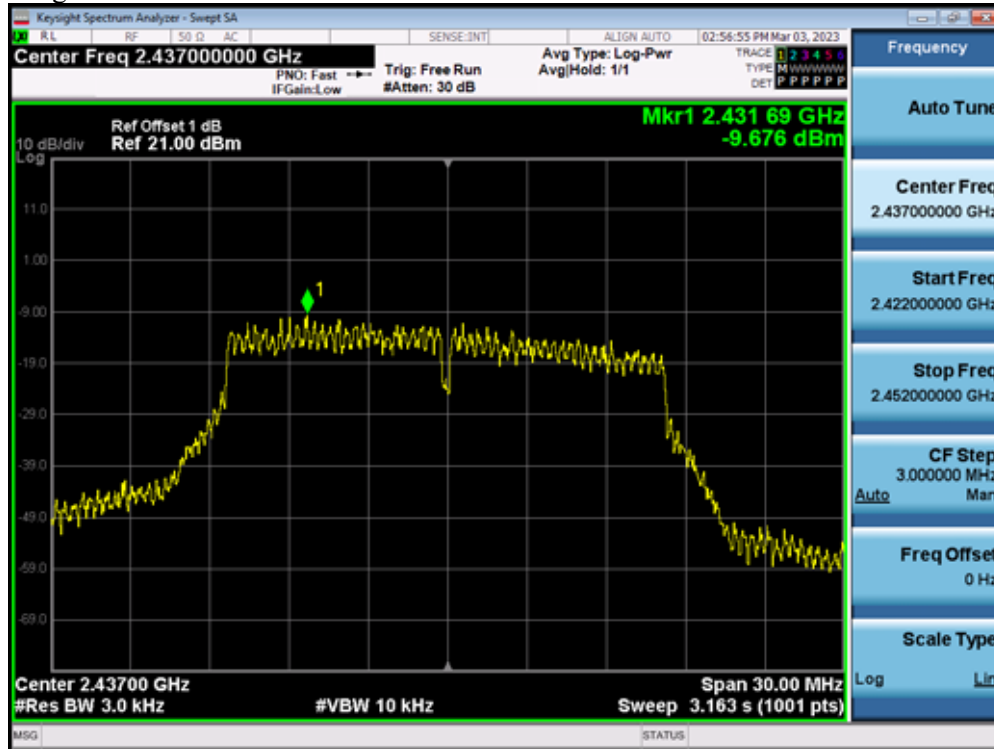
Test Data: Ant1 b 2462MHz



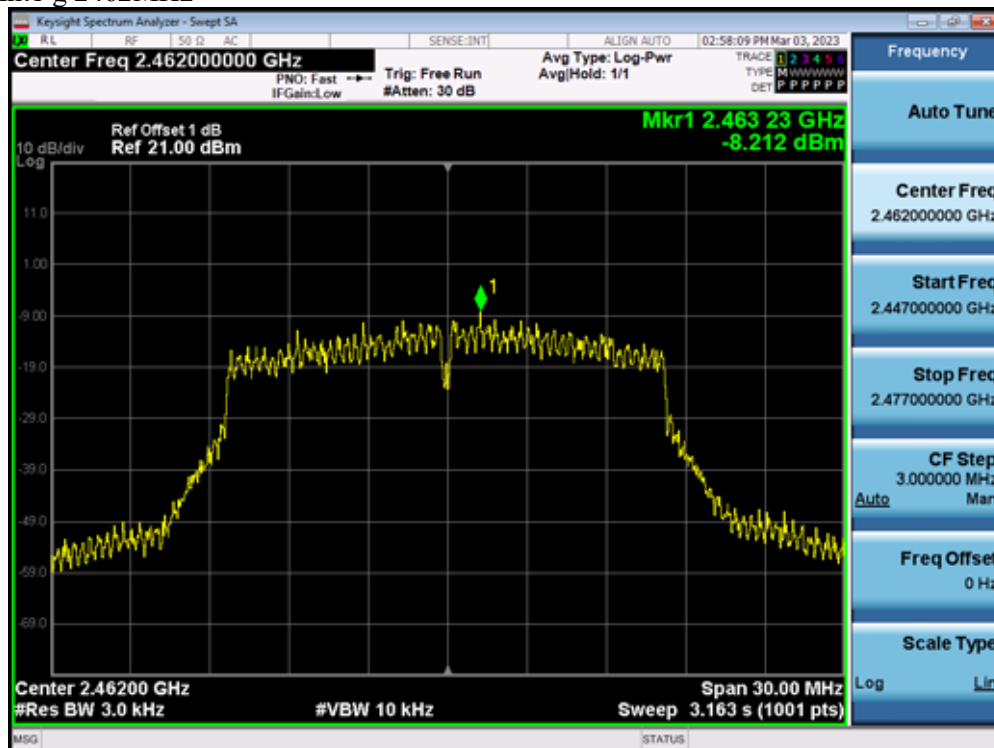
Test Data: Ant1 g 2412MHz



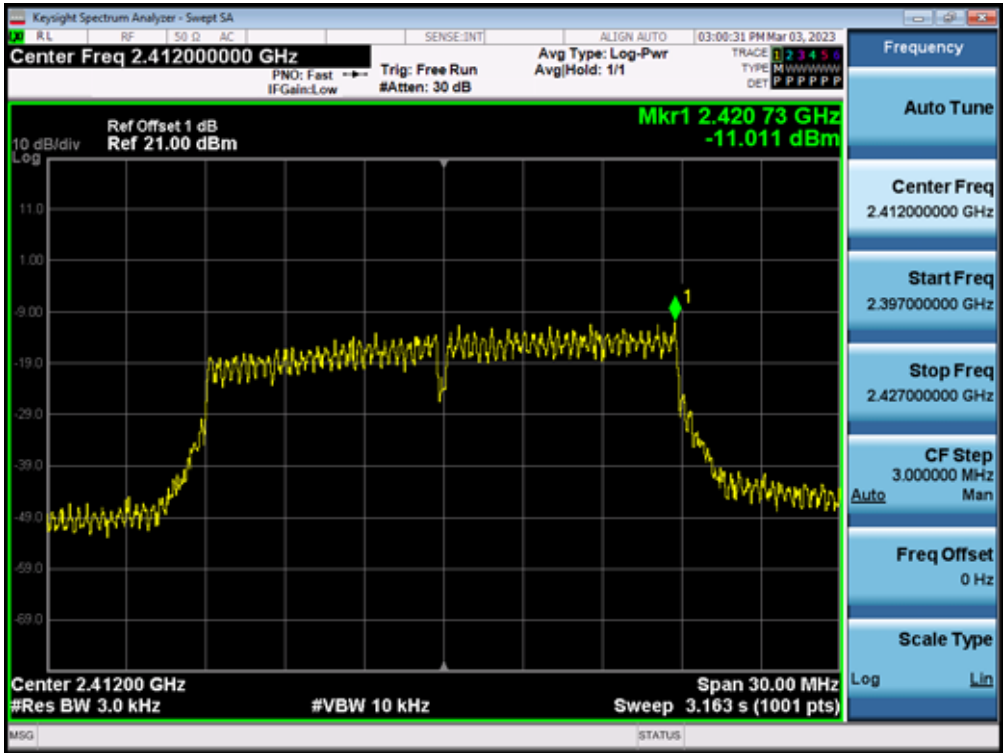
Test Data: Ant1 g 2437MHz



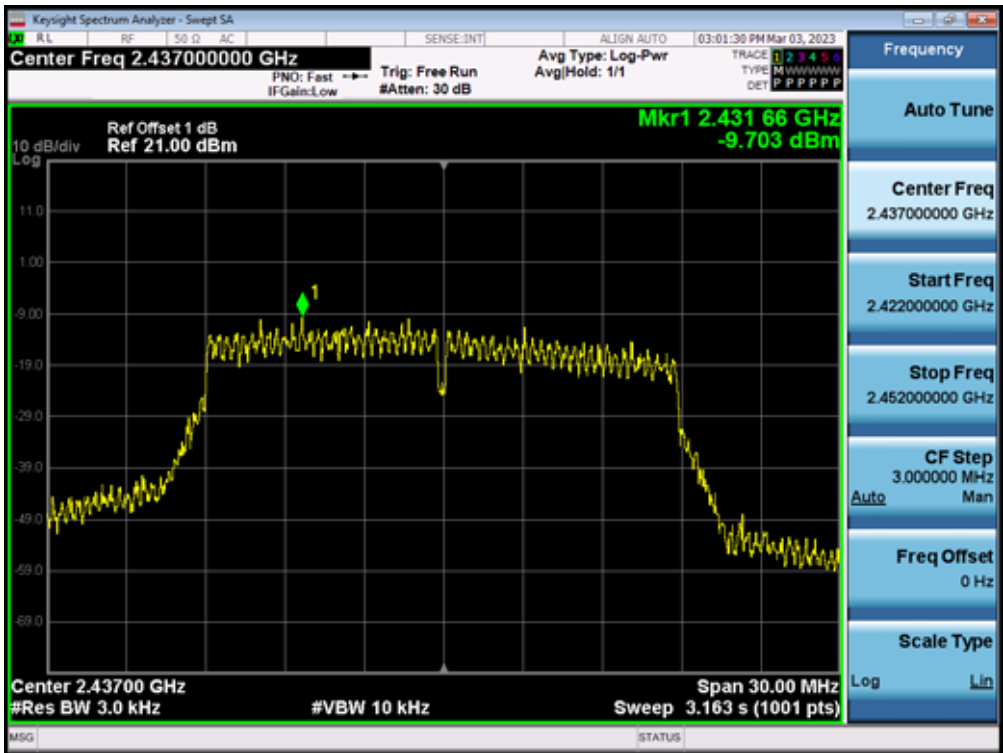
Test Data: Ant1 g 2462MHz



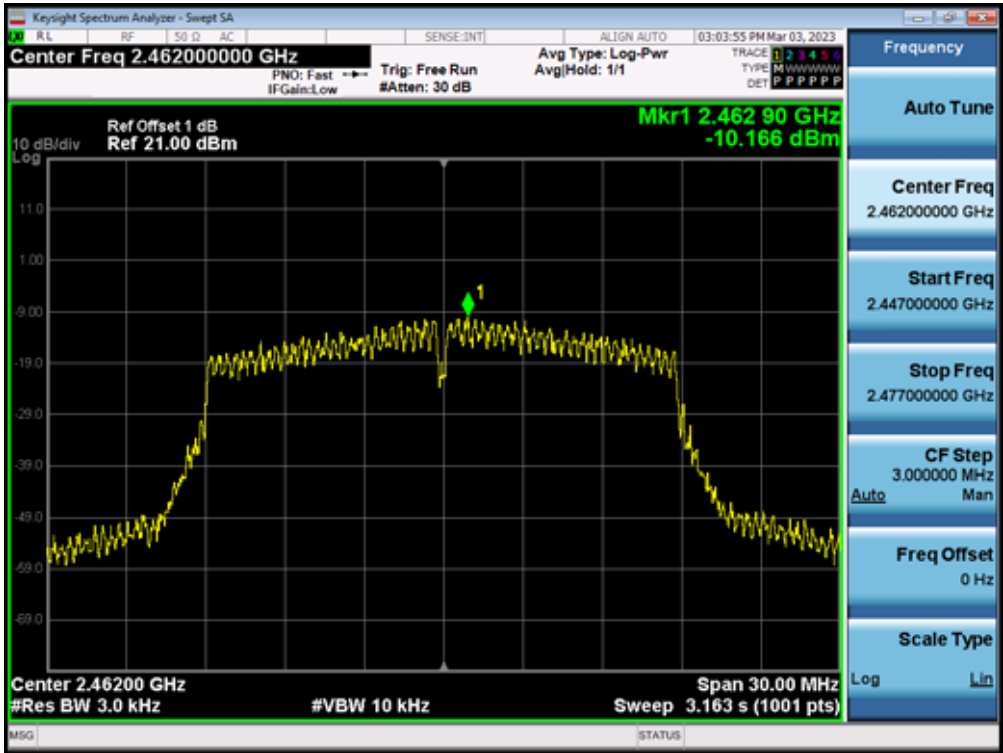
Test Data: Ant1 HT20 2412MHz



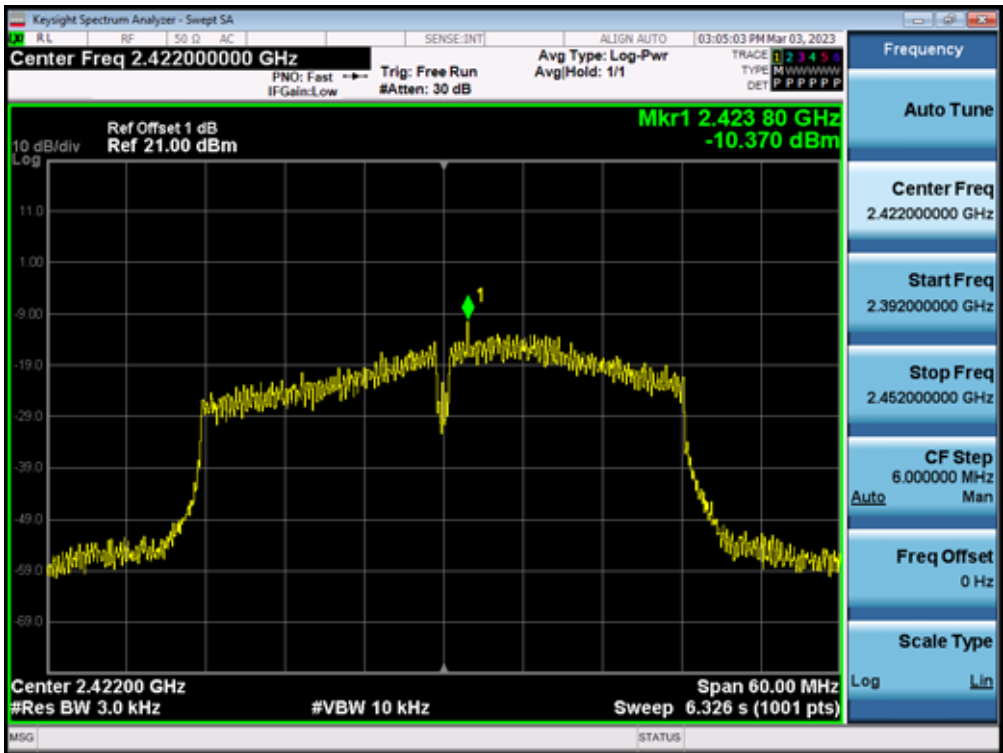
Test Data: Ant1 HT20 2437MHz



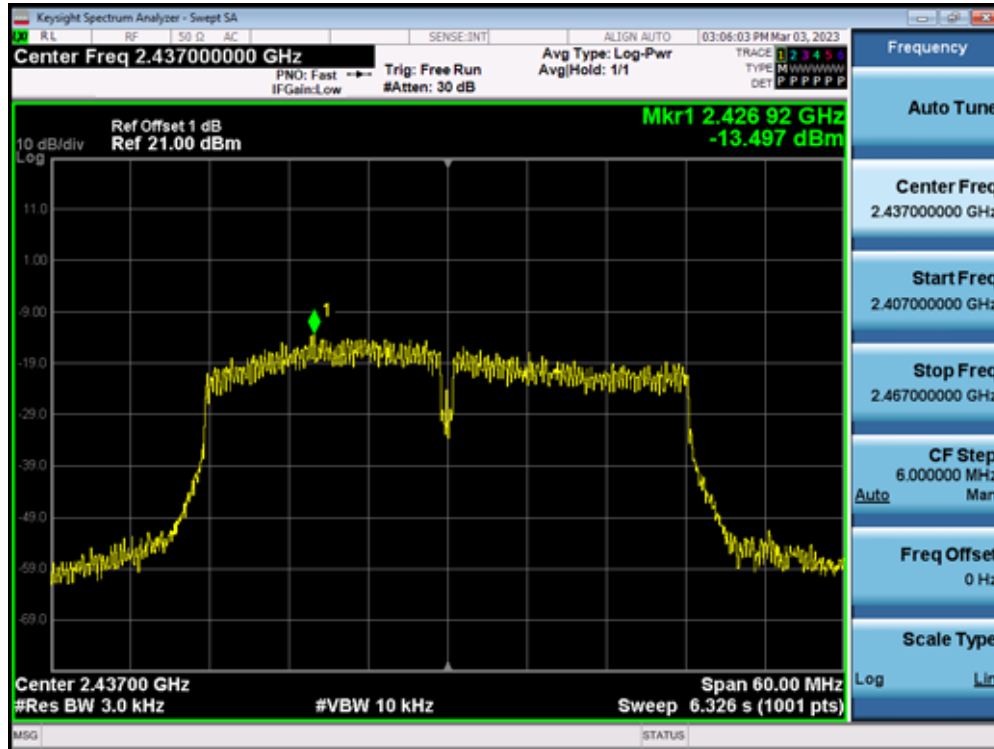
Test Data: Ant1 HT20 2462MHz



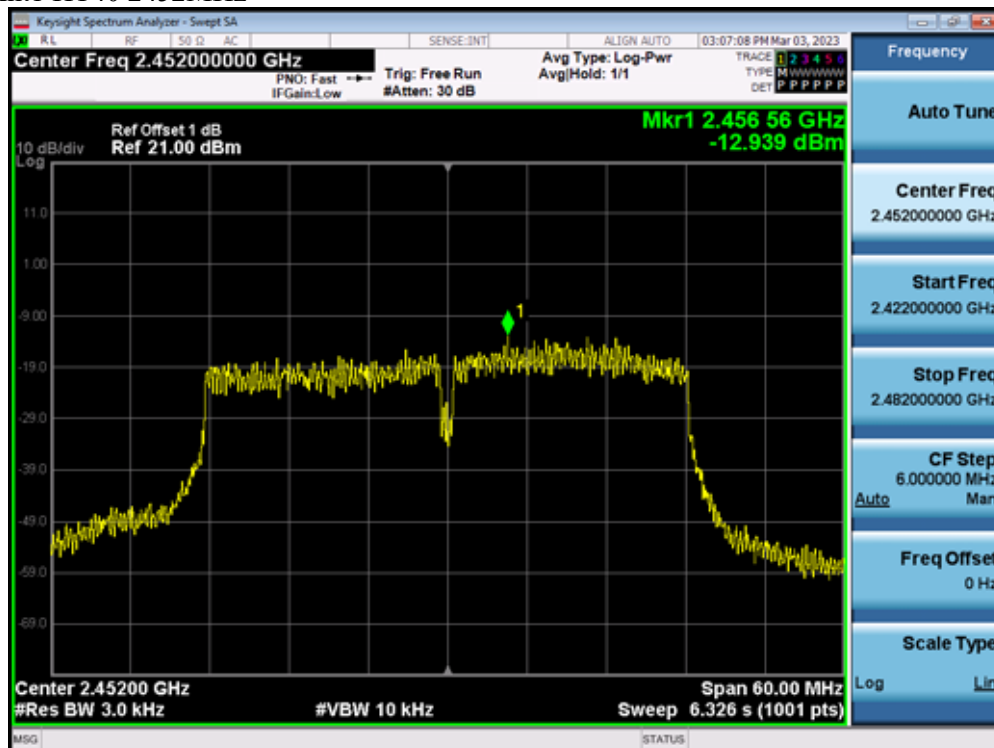
Test Data: Ant1 HT40 2422MHz



Test Data: Ant1 HT40 2437MHz



Test Data: Ant1 HT40 2452MHz



11. Appendix

11.1 Appendix A: Equipment List

Location	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 02	EMI Receiver 14	ROHDE&SCHWARZ	ESCI	101034	05/25/2022	05/25/2023
Conduction 02	Conduction 02-1 Cable	WOKEN	CFD 300-NL	Conduction 02 -1	10/11/2022	10/11/2023
Conduction 02	LISN 26	R&S	ENV216	102378	12/08/2022	12/08/2023
Conduction 02	LISN 21	R&S	ENV216	101476	07/20/2022	07/20/2023
Conduction 02	ISN T4 07	Teseq GmbH	ISN T400A	30449	07/28/2022	07/28/2023
Conduction 02	ISN T8 10	TESEQ	ISN T800	42773	08/05/2022	08/05/2023
Conduction 02	CDN ISN ST08A_1	Teseq GmbH	CDN ISN ST08A	43352	10/04/2022	10/04/2023
Conduction 02	Capacitive Voltage Probe 01	SCHAFFNER	CVP 2200A	18711	02/22/2023	02/22/2024
Conduction 02	Current Probe	SCHAFFNER	SMZ 11	18030	02/22/2023	02/22/2024

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Chamber 19	Spectrum analyzer	R&S	FSV40	101919	08/17/2022	08/17/2023
Chamber 19	EMI Receiver	R&S	ESR3	102461	05/10/2022	05/10/2023
Chamber 19	Loop Antenna	EM	EM-6879	271	10/05/2022	10/05/2023
Chamber 19	Bilog Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168 w 6dB Att.	9168-736	03/09/2023	03/09/2024
Chamber 19	Horn antenna (1GHz-18GHz)	ETS	3117	00218718	10/12/2022	10/12/2023
Chamber 19	Horn antenna (18GHz-26GHz)	Com-power	AH-826	081001	11/24/2022	11/24/2023
Chamber 19	Horn antenna (26GHz-40GHz)	Com-power	AH-640	100A	03/18/2023	03/18/2024
Chamber 19	Preamplifier (9kHz-1GHz)	HP	8447F	3113A04621	06/24/2022	06/24/2023
Chamber 19	Preamplifier (1GHz-26GHz)	HP	8449B	3008A02471	06/24/2022	06/24/2023
Chamber 19	Preamplifier (26GHz-40GHz)	MITEQ	JS4-26004000-27-5A	818471	05/12/2022	05/12/2023
Chamber 19	RF Cable (100kHz-26.5GHz)	Huber Suhner	Sucoflex 104A	MY1394/4A & 50886/4A	09/02/2022	09/02/2023
Chamber 19	RF Cable (18GHz-40GHz)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/23/2022	11/23/2023
Chamber 19	Signal Generator	Anritsu	MG3692A	20311	12/29/2022	12/29/2023
Chamber 19	Test Software	Audix	E3 Ver:6.120203b	N/A	N/A	N/A

Location Conducted	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conducted	Power Meter	Anritsu	ML2495A	1116010	09/29/2022	09/29/2023
Conducted	Power Sensor	Anritsu	MA2411B	34NKF50	09/29/2022	09/29/2023
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO33	01/06/2023	01/06/2024
Conducted	Power Sensor	DARE	RPR3006W	13I00030SNO34	01/06/2023	01/06/2024
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO35	06/29/2022	06/29/2023
Conducted	Power Sensor	DARE	RPR3006W	14I00889SNO36	06/29/2022	06/29/2023
Conducted	Temperature Chamber	KSON	THS-B4H100	2287	05/20/2022	05/20/2023
Conducted	DC Power supply	ABM	8185D	N/A	01/04/2023	01/04/2024
Conducted	AC Power supply	EXTECH	CFC105W	NA	N/A	N/A
Conducted	Spectrum analyzer	Keysight	N9010A	MY56070257	09/28/2022	09/28/2023
Conducted	Test Software	DARE	Radiation Ver:2013.1.23	NA	NA	NA
Conducted	Test Software	R&S	CMUGO Ver:2.0.0	N/A	N/A	N/A
Conducted	Universal Radio Comm. Tester	R&S	CMU200	111968	11/19/2022	11/19/2023
Conducted	Wideband Radio Comm. Tester	R&S	CMW500	1201.002K50108793-JG	10/31/2022	10/31/2023
Conducted	BT Simulator	Agilent	N4010A	MY48100200	NA	NA
Conducted	Signal Generator	Agilent	E4438C	MY49071550	12/28/2022	12/28/2023
Conducted	Signal Generator	Keysight	N5182B	MY53052399	12/28/2022	12/28/2023
Conducted	Spectrum analyzer	Keysight	N9010A	MY56070257	09/28/2022	09/28/2023
Conducted	RF cable (Conducted)	WOEKEN	00100A2H646027	20012100015	NA	NA
Conducted	Attenuator	MCL	VAT-10W2	NA	NA	NA
Conducted (TS8997)	Wideband Radio Comm. Tester	R&S	CMW500	168811	09/22/2022	09/22/2023
Conducted (TS8997)	UP/DOWN converter	R&S	CMW-Z800A	100566	12/22/2022	12/22/2023
Conducted (TS8997)	Signal Generator	R&S	SMB100A	183701	01/18/2023	01/18/2024
Conducted (TS8997)	Vector Signal Generator	R&S	SMM100A	101908	11/23/2022	11/23/2023
Conducted (TS8997)	Signal analyzer 40GHz	R&S	FSV40	101884	09/22/2022	09/22/2023
Conducted (TS8997)	OSP150 extension unit CAM-BUS	R&S	OSP150	101107	09/21/2022	09/21/2023
Conducted (TS8997)	Test Software	R&S	EMC32 Ver: 11.50.00	NA	NA	NA

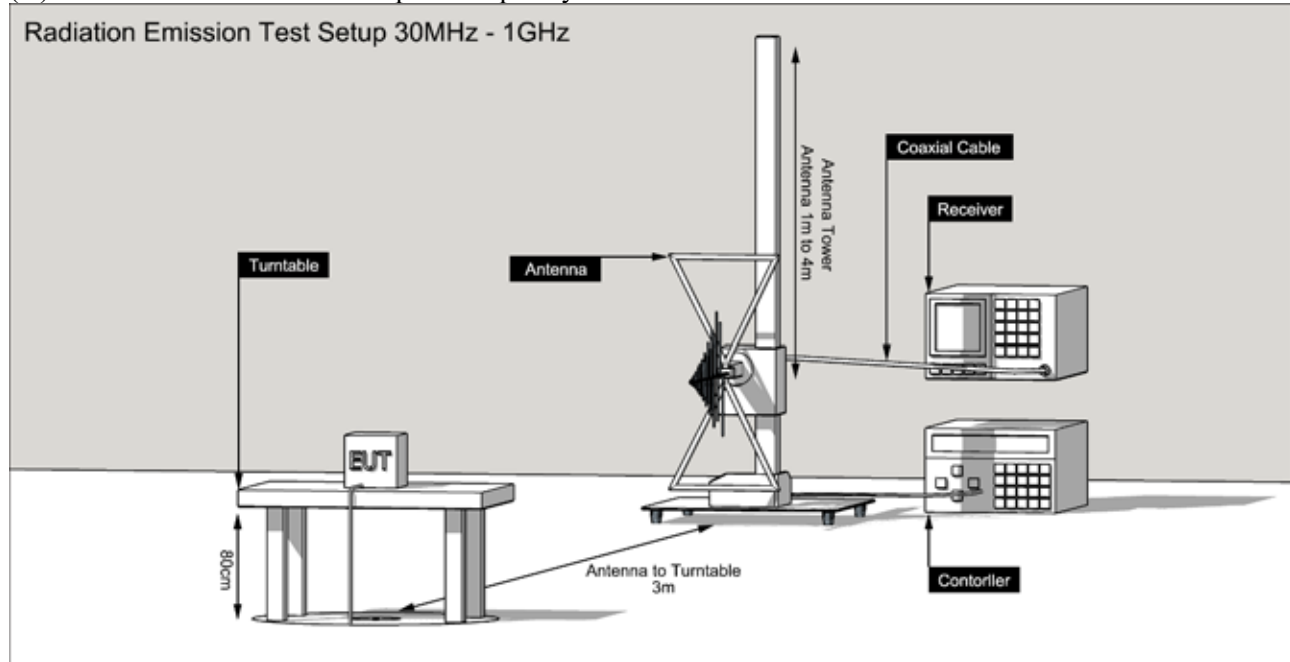
11.2 Appendix B: Uncertainty of Measurement

ISO/IEC 17025 requires that an estimate of 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)).

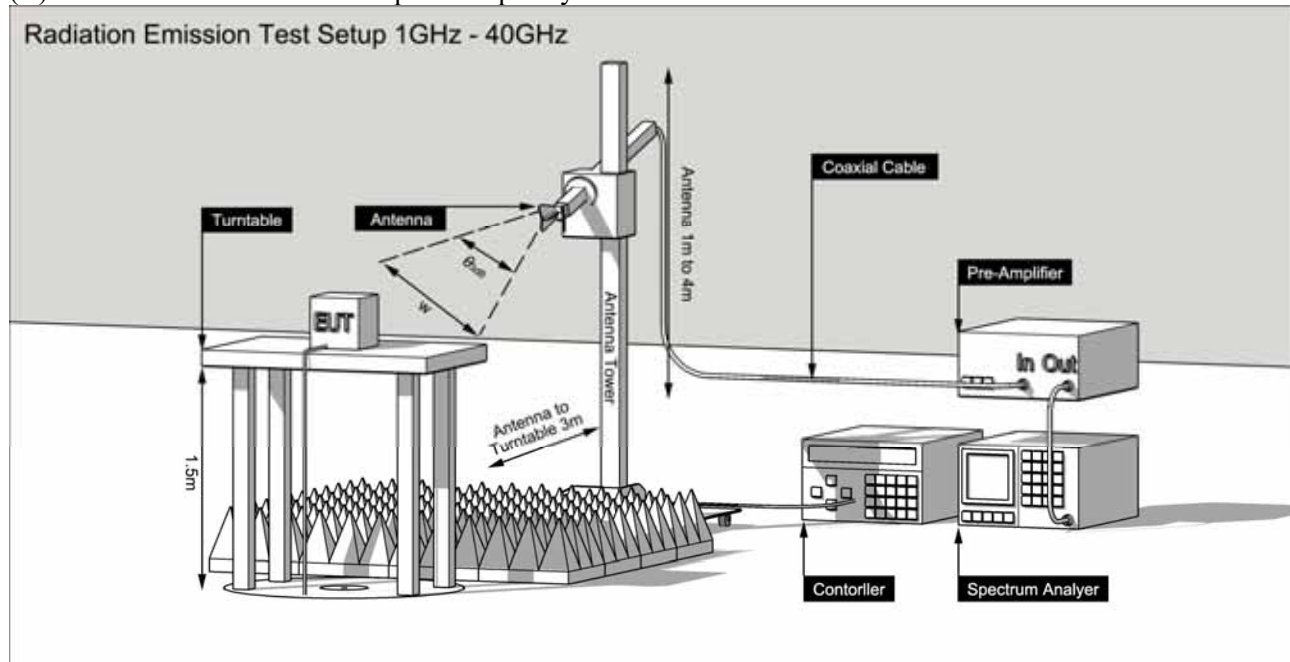
Parameters	Uncertainty (k=2)
Conducted Emission (AC power line)	2.586 dB
Field Strength of Spurious Radiation	≤30MHz: 2.96dB 30-1GHz: 4.22 dB 1-40 GHz: 4.08 dB
Conducted Power	2.412 GHz: 1.30 dB
Power Density	2.412 GHz: 1.30 dB
Frequency	0.0032%
Time	0.01%

Radiated Spurious Emission Test & 100kHz Bandwidth of Band Edges Measurement Test Setup

(A) Radiated Emission Test Setup for frequency below 1000MHz



(B) Radiated Emission Test Setup for frequency above 1 GHz



RF Conducted Measurement Test Setup

