

# TEST REPORT

**Applicant:** CoreTigo Ltd  
**Address:** Giborey Israel 5, Poleg, Natanya, Israel 4250405  
**Manufacturer:** CoreTigo Ltd  
**Address of Manufacturer:** Giborey Israel 5, Poleg, Natanya, Israel 4250405  
**Equipment Under Test (EUT)**  
Product Name: TigoMaster IO-Link Wireless Master  
Model No.: CT241-0004t2-01  
HVIN: 3.0  
Trade Mark: TigoMaster IO-Link Wireless Master  
**FCC ID:** 2ATSM-COR2TH  
**IC:** 26463-COR2TH  
**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249  
RSS-Gen Issue 5  
RSS-210 Issue 10  
**Date of sample receipt:** January 11, 2021  
**Date of Test:** January 12-28, 2021  
**Date of report issued:** January 28, 2021  
**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Robinson Lo**

**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	January 28, 2021	Original

**Prepared By:** Tiger Chen **Date:** January 28, 2021  
**Project Engineer**

**Check By:** Robinson Lu **Date:** January 28, 2021  
**Reviewer**

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## 4 Test Summary

Test Item	Section	Result
Antenna requirement	15.203 RSS-Gen Section 6.8	Pass
AC Power Line Conducted Emission	15.207 RSS-Gen Section 8.8	Pass
Field strength of the fundamental signal	15.249 (a) RSS-210 B.10 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209 RSS-210 B.10 (b)	Pass
Band edge	15.249 (d)/15.205 RSS-Gen 8.9 & RSS-Gen 8.10	Pass
20dB Occupied Bandwidth and 99% Occupied Bandwidth	15.215 (c) RSS-Gen Clause 6.7	Pass

*Remarks:*

1. Test according to ANSI C63.10: 2013 and ANSI C63.4: 2014..
2. Pass: The EUT complies with the essential requirements in the standard.

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	TigoMaster IO-Link Wireless Master
Model No.:	CT241-0004t2-01
Series:	CT241-0003t2-02, CT241-0008t2-01, CT241-0004t2-01
Hardware Version:	Rev3
Software Version:	V06.03.0092
Test sample(s) ID:	GTS202012000114-1
Sample(s) Status	Engineered sample
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation technology:	GFSK
Antenna Type:	External Antenna
Antenna gain:	ANT 1&ANT 2&ANT 3: 1.6dBi(declare by applicant)
Power supply:	DC 18-32V

**Remark:** All 3 antennas transmitters were work in asynchronous status.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	21	2422 MHz	41	2442 MHz	61	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	62	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	63	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	64	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	65	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	66	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	67	2468 MHz
8	2409 MHz	28	2427 MHz	48	2449 MHz	68	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	69	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2431 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 MHz		

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

## 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
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### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	91.31	95.63	94.55

## 5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
SAIL	DC POWER SUPPLY	46B24L	7J3116161 2491
Lenovo	Notebook PC	E40-80	N/A

## 5.4 Deviation from Standards

None.
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## 5.5 Abnormalities from Standard Conditions

None.
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## 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

## 5.8 Additional Instructions

Test Software	Special test software provide by manufacturer
Power level setup	Default



## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203
<p><b>15.203 requirement:</b></p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	
<p><b>RSS-Gen 6.8:</b></p> <p>The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.</p> <p>For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).</p>	
<b>EUT Antenna:</b>	
<p><i>The antenna is External antenna, the best case gain of the antenna is 1.6dBi, reference to the appendix II for details.</i></p>	

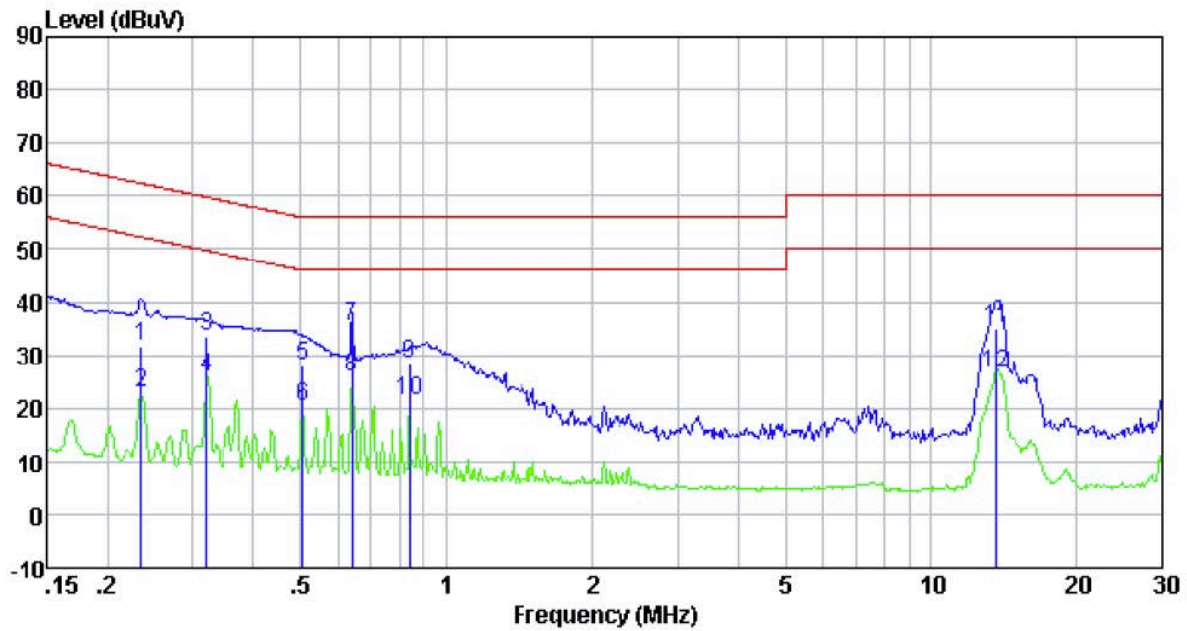
## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207 RSS-Gen Section 8.8					
Test Method:	ANSI C63.10:2013 and RSS-Gen					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			Quasi-peak		Average	
	0.15-0.5		66 to 56*		56 to 46*	
	0.5-5		56		46	
	5-30		60		50	
* Decreases with the logarithm of the frequency.						
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>LISN</p> <p>Filter</p> <p>AC power</p> <p>AUX Equipment</p> <p>E.U.T.</p> <p>EMI Receiver</p> <p>Test table/Insulation plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>					
Test procedure:	<ol style="list-style-type: none"> <li>1. The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.</li> </ol>					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

**Remark: Both AC 120V and 240V were test, only the worst condition AC 120V report.**

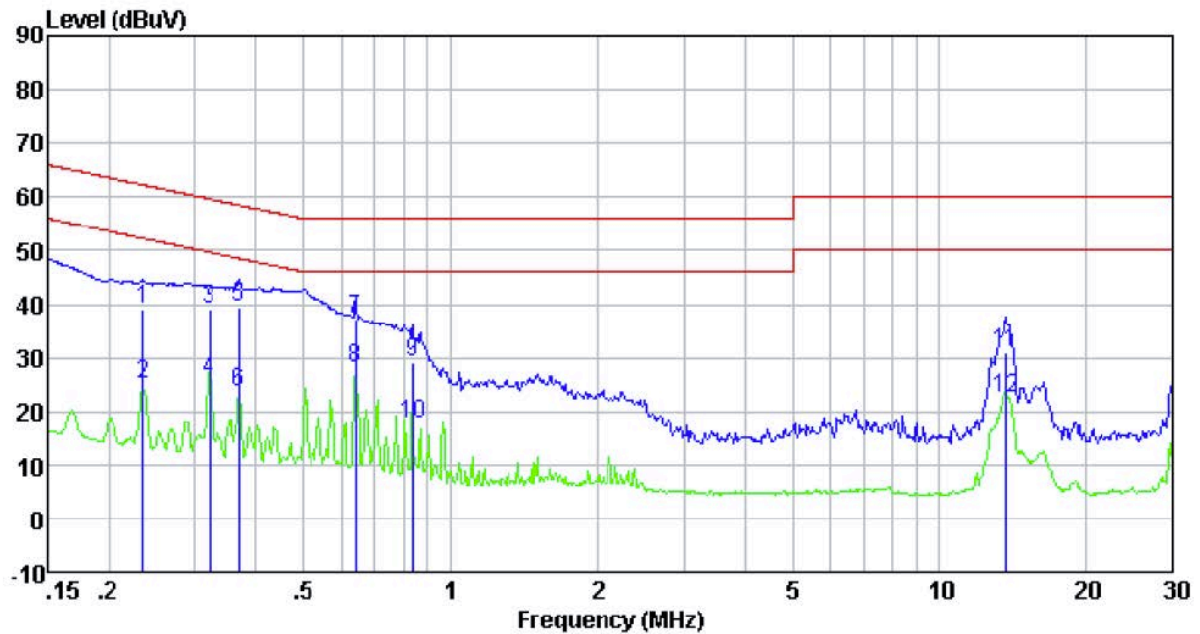
**Measurement data**

Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.24	11.05	20.40	0.11	31.56	62.26	-30.70	QP
0.24	2.20	20.40	0.11	22.71	52.26	-29.55	Average
0.32	13.16	20.39	0.10	33.65	59.71	-26.06	QP
0.32	5.38	20.39	0.10	25.87	49.71	-23.84	Average
0.50	7.50	20.31	0.11	27.92	56.00	-28.08	QP
0.50	-0.16	20.31	0.11	20.26	46.00	-25.74	Average
0.64	15.04	20.27	0.12	35.43	56.00	-20.57	QP
0.64	5.30	20.27	0.12	25.69	46.00	-20.31	Average
0.84	8.06	20.23	0.14	28.43	56.00	-27.57	QP
0.84	0.94	20.23	0.14	21.31	46.00	-24.69	Average
13.62	14.54	20.20	0.21	34.95	60.00	-25.05	QP
13.62	6.22	20.20	0.21	26.63	50.00	-23.37	Average

Neutral:

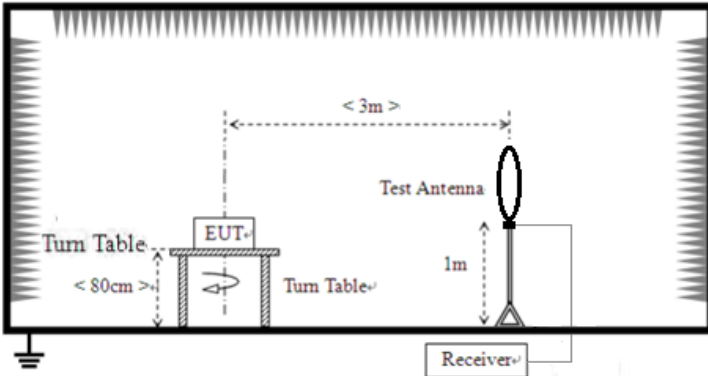


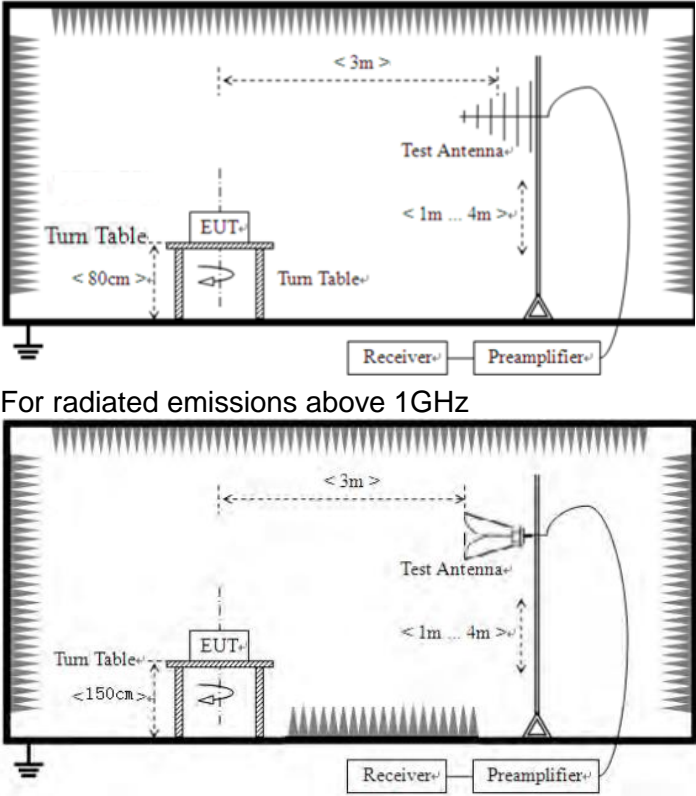
Freq MHz	Reading level dB $\mu$ V	LISN/ISN factor dB	Cable loss dB	Level dB $\mu$ V	Limit level dB $\mu$ V	Over limit dB	Remark
0.24	18.50	20.40	0.11	39.01	62.26	-23.25	QP
0.24	4.38	20.40	0.11	24.89	52.26	-27.37	Average
0.32	18.42	20.39	0.10	38.91	59.66	-20.75	QP
0.32	5.34	20.39	0.10	25.83	49.66	-23.83	Average
0.37	19.12	20.37	0.10	39.59	58.52	-18.93	QP
0.37	3.16	20.37	0.10	23.63	48.52	-24.89	Average
0.64	17.02	20.27	0.12	37.41	56.00	-18.59	QP
0.64	7.51	20.27	0.12	27.90	46.00	-18.10	Average
0.84	8.85	20.23	0.14	29.22	56.00	-26.78	QP
0.84	-2.63	20.23	0.14	17.74	46.00	-28.26	Average
13.70	10.60	20.20	0.21	31.01	60.00	-28.99	QP
13.70	2.21	20.20	0.21	22.62	50.00	-27.38	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

### 7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 RSS-210 B.10 & RSS-Gen 8.9 & RSS-Gen 8.10				
Test Method:	ANSI C63.10:2013 and RSS-Gen				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.00		Average Value	
		114.00		Peak Value	
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)		Remark	
	0.009MHz-0.490MHz	2400/F(kHz) @300m		Quasi-peak Value	
	0.490MHz-1.705MHz	24000/F(kHz) @30m		Quasi-peak Value	
	1.705MHz-30.0MHz	30 @30m		Quasi-peak Value	
	30MHz-88MHz	100 @3m		Quasi-peak Value	
	88MHz-216MHz	150 @3m		Quasi-peak Value	
	216MHz-960MHz	200 @3m		Quasi-peak Value	
	960MHz-1GHz	500 @3m		Quasi-peak Value	
	Above 1GHz	500 @3m		Average Value	
		5000 @3m		Peak Value	
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	<p>For radiated emissions from 9kHz to 30MHz</p>  <p>For radiated emissions from 30MHz to 1GHz</p>				

	 <p>For radiated emissions above 1GHz</p>						
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>						
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>						
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>						
<p>Test environment:</p>	<table border="1"> <tr> <td>Temp.:</td> <td>25 °C</td> <td>Humid.:</td> <td>52%</td> <td>Press.:</td> <td>1012mbar</td> </tr> </table>	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
<p>Test results:</p>	<p>Pass</p>						



**Measurement data:**

**7.3.1 Field Strength of The Fundamental Signal**

**ANT 1:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2402.00	91.56	27.04	2.91	30.26	91.25	114.00	-22.75	Peak	Vertical
2402.00	95.52	27.04	2.91	30.26	95.21	114.00	-18.79	Peak	Horizontal
2402.00	87.42	27.04	2.91	30.26	87.11	94.00	-6.89	Average	Vertical
2402.00	92.63	27.04	2.91	30.26	92.32	94.00	-1.68	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2440.00	91.41	27.14	2.96	30.14	91.37	114.00	-22.63	Peak	Vertical
2440.00	93.41	27.14	2.96	30.14	93.37	114.00	-20.63	Peak	Horizontal
2440.00	88.31	27.14	2.96	30.14	88.27	94.00	-5.73	Average	Vertical
2440.00	90.08	27.14	2.96	30.14	90.04	94.00	-3.96	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2480.00	90.68	27.25	2.99	30.08	90.84	114.00	-23.16	Peak	Vertical
2480.00	94.34	27.25	2.99	30.08	94.50	114.00	-19.50	Peak	Horizontal
2480.00	88.07	27.25	2.99	30.08	88.23	94.00	-5.77	Average	Vertical
2480.00	90.43	27.25	2.99	30.08	90.59	94.00	-3.41	Average	Horizontal

**ANT 2:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2402.00	91.48	27.04	2.91	30.26	91.17	114.00	-22.83	Peak	Vertical
2402.00	95.94	27.04	2.91	30.26	95.63	114.00	-18.37	Peak	Horizontal
2402.00	87.24	27.04	2.91	30.26	86.93	94.00	-7.07	Average	Vertical
2402.00	92.76	27.04	2.91	30.26	92.45	94.00	-1.55	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2440.00	90.71	27.14	2.96	30.14	90.67	114.00	-23.33	Peak	Vertical
2440.00	95.41	27.14	2.96	30.14	95.37	114.00	-18.63	Peak	Horizontal
2440.00	87.44	27.14	2.96	30.14	87.40	94.00	-6.60	Average	Vertical
2440.00	92.36	27.14	2.96	30.14	92.32	94.00	-1.68	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2480.00	91.20	27.25	2.99	30.08	91.36	114.00	-22.64	Peak	Vertical
2480.00	94.22	27.25	2.99	30.08	94.38	114.00	-19.62	Peak	Horizontal
2480.00	86.35	27.25	2.99	30.08	86.51	94.00	-7.49	Average	Vertical
2480.00	92.57	27.25	2.99	30.08	92.73	94.00	-1.27	Average	Horizontal

**ANT 3:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2402.00	90.45	27.04	2.91	30.26	90.14	114.00	-23.86	Peak	Vertical
2402.00	94.72	27.04	2.91	30.26	94.41	114.00	-19.59	Peak	Horizontal
2402.00	86.74	27.04	2.91	30.26	86.43	94.00	-7.57	Average	Vertical
2402.00	90.73	27.04	2.91	30.26	90.42	94.00	-3.58	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2440.00	90.75	27.14	2.96	30.14	90.71	114.00	-23.29	Peak	Vertical
2440.00	95.47	27.14	2.96	30.14	95.43	114.00	-18.57	Peak	Horizontal
2440.00	86.36	27.14	2.96	30.14	86.32	94.00	-7.68	Average	Vertical
2440.00	90.93	27.14	2.96	30.14	90.89	94.00	-3.11	Average	Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	polarization
2480.00	90.09	27.25	2.99	30.08	90.25	114.00	-23.75	Peak	Vertical
2480.00	95.10	27.25	2.99	30.08	95.26	114.00	-18.74	Peak	Horizontal
2480.00	87.58	27.25	2.99	30.08	87.74	94.00	-6.26	Average	Vertical
2480.00	90.40	27.25	2.99	30.08	90.56	94.00	-3.44	Average	Horizontal

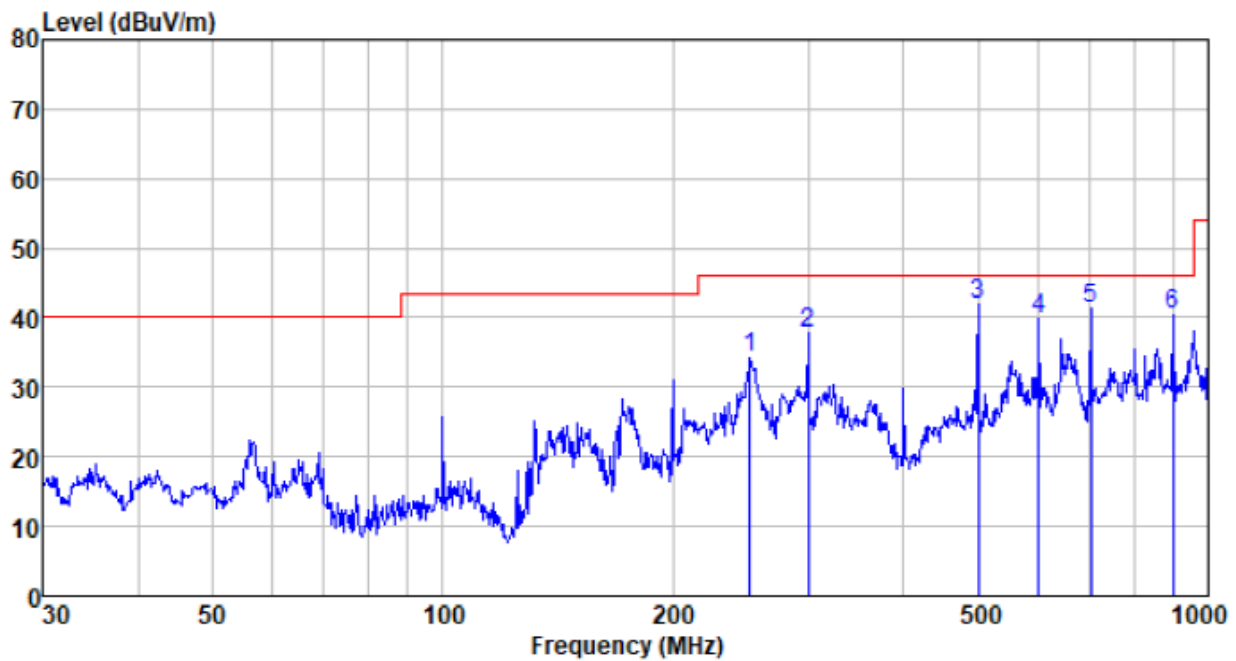
## 7.3.2 Spurious emissions

### ■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

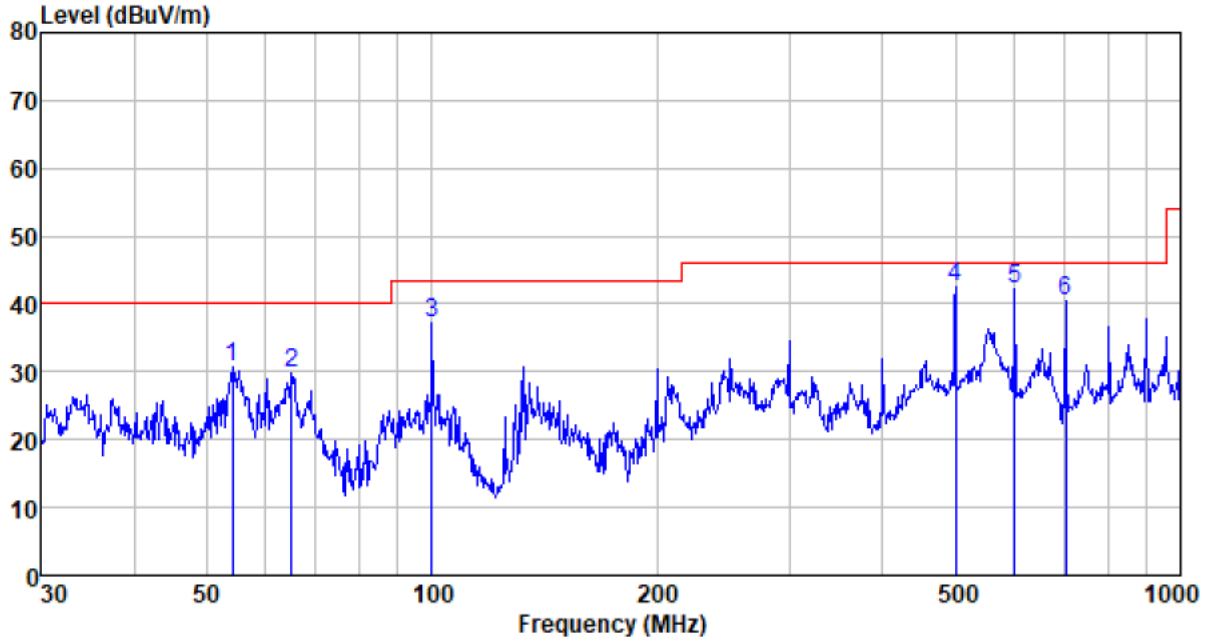
### ■ Below 1GHz

Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
252.063	57.29	12.22	2.14	37.38	34.27	46.00	-11.73	QP	200	0
300.367	59.21	13.60	2.36	37.42	37.75	46.00	-8.25	QP	200	0
501.179	58.84	17.30	3.31	37.51	41.94	46.00	-4.06	QP	200	0
601.427	54.27	19.50	3.73	37.54	39.96	46.00	-6.04	QP	200	0
701.761	55.07	19.66	4.09	37.63	41.19	46.00	-4.81	QP	200	0
900.147	51.05	22.30	4.85	37.60	40.57	46.00	-5.43	QP	200	0

**Vertical:**



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
54.071	54.29	11.88	0.81	36.24	30.74	40.00	-9.26	QP	100	0
64.887	55.90	9.34	0.90	36.38	29.76	40.00	-10.24	QP	100	0
99.878	60.45	12.20	1.19	36.72	37.12	43.50	-6.38	QP	100	0
501.179	59.42	17.30	3.31	37.51	42.52	46.00	-3.48	QP	100	0
601.427	56.45	19.50	3.73	37.54	42.14	46.00	-3.86	QP	100	0
701.761	54.18	19.66	4.09	37.63	40.30	46.00	-5.70	QP	100	0

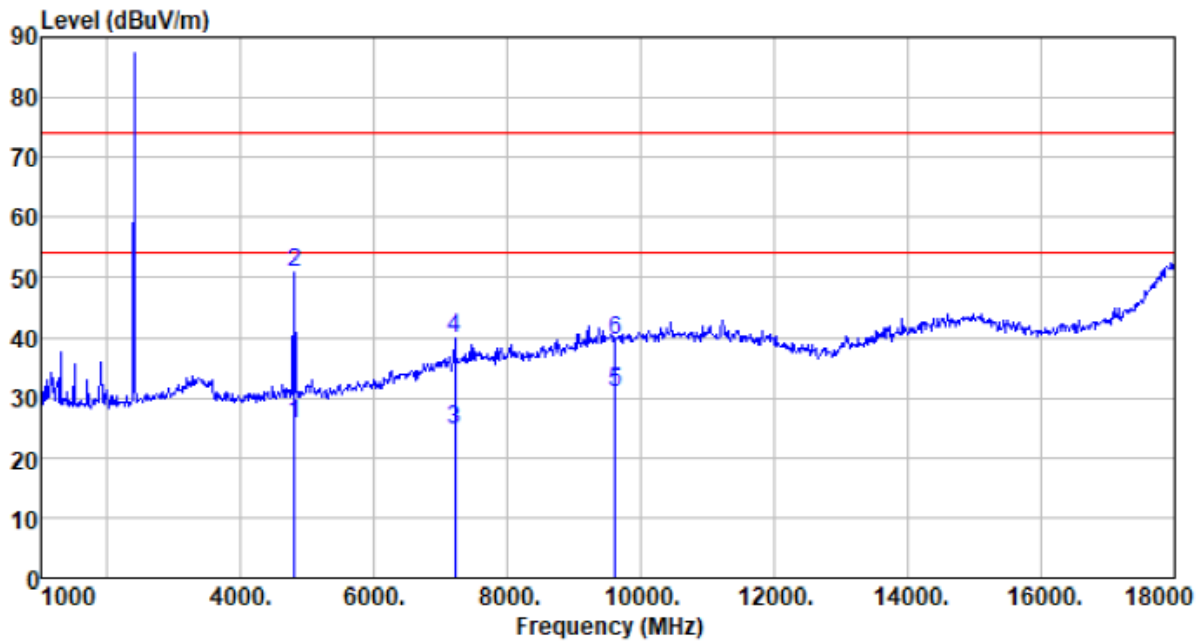
■ Above 1GHz

All 3 antennas were tested and found worst case at ANT 1, so only show the test result of ANT 1

**ANT 1:**

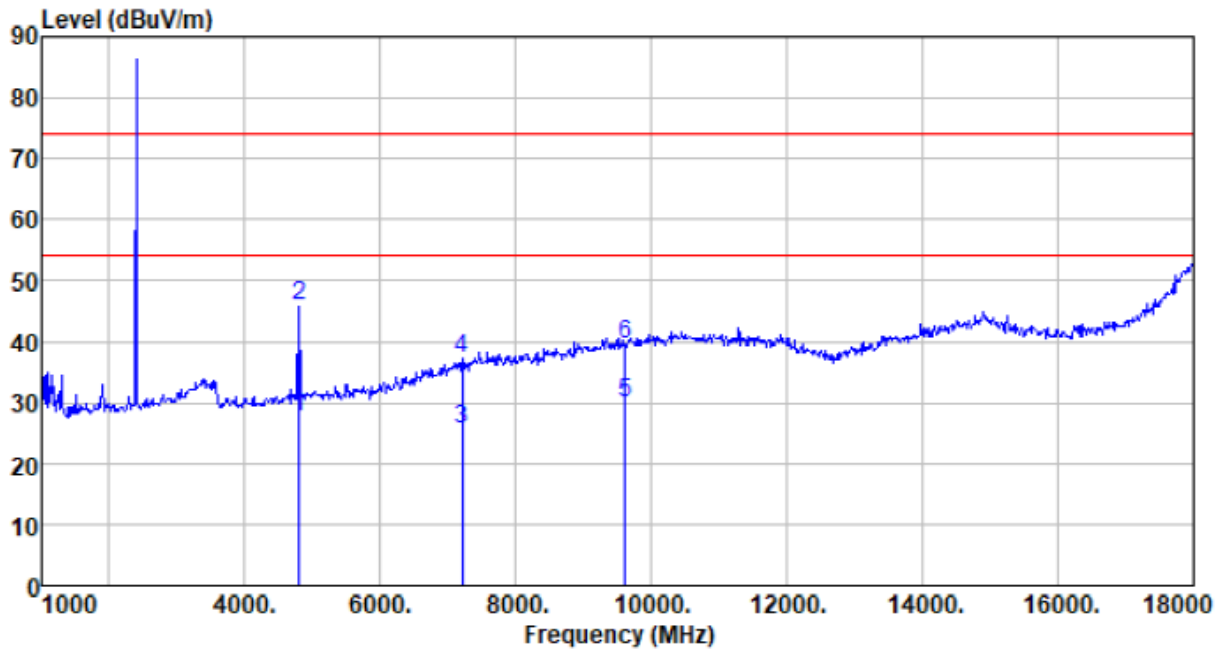
Test channel:	Lowest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4804.000	26.79	31.87	4.61	37.73	25.54	54.00	-28.46	AV	200	0
4804.000	51.95	31.87	4.61	37.73	50.70	74.00	-23.30	PK	200	0
7206.000	17.86	35.78	6.48	35.63	24.49	54.00	-29.51	AV	200	0
7206.000	33.06	35.78	6.48	35.63	39.69	74.00	-34.31	PK	200	0
9608.000	19.59	38.24	7.97	34.94	30.86	54.00	-23.14	AV	200	0
9608.000	28.38	38.24	7.97	34.94	39.65	74.00	-34.35	PK	200	0

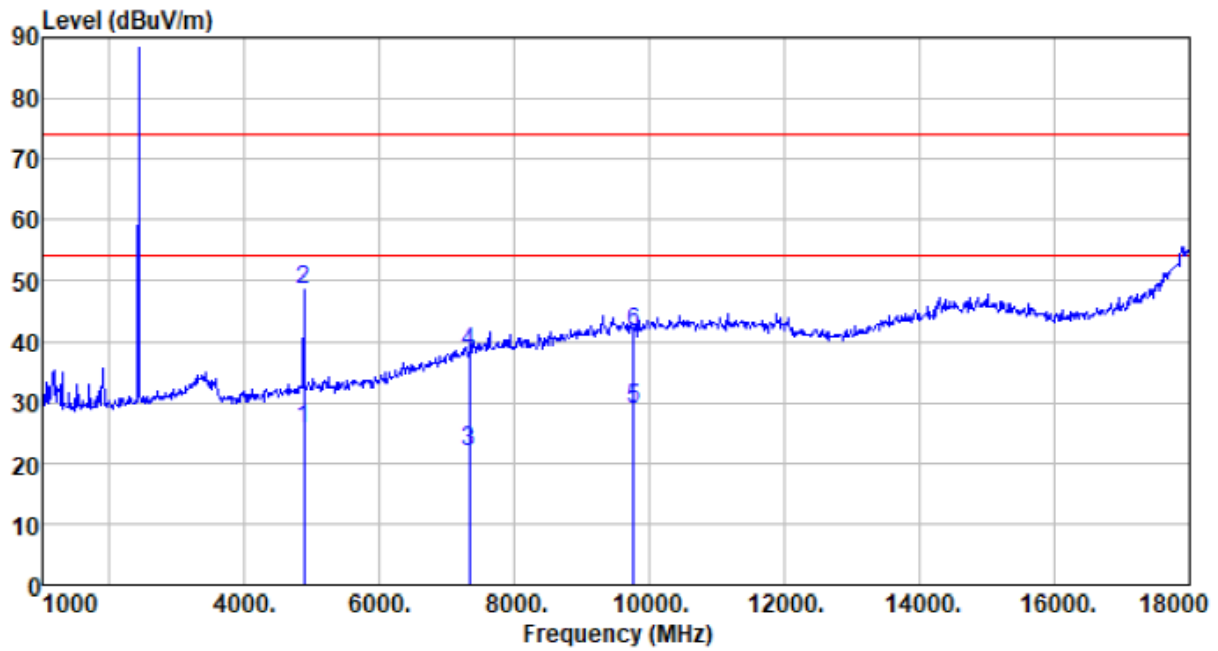
Vertical:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4804.000	28.75	31.87	4.61	37.73	27.50	54.00	-26.50	AV	200	0
4804.000	47.47	31.87	4.61	37.73	45.92	74.00	-28.08	PK	200	0
7206.000	18.96	35.78	6.48	35.63	25.59	54.00	-28.41	AV	200	0
7206.000	30.50	35.78	6.48	35.63	37.13	74.00	-36.87	PK	200	0
9608.000	18.50	38.24	7.97	34.94	27.99	54.00	-24.23	AV	200	0
9608.000	28.19	38.24	7.97	34.94	39.46	74.00	-34.54	PK	200	0

Test channel:	Middle
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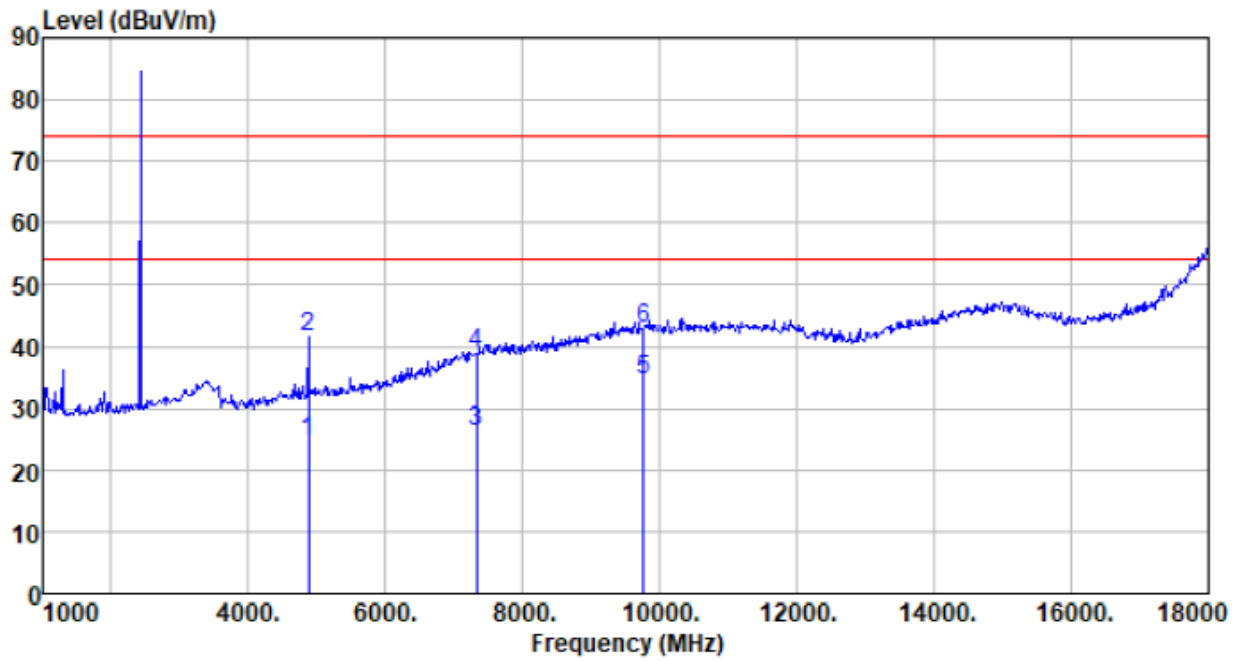
Horizontal:



Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4880.000	26.60	32.04	4.69	37.75	25.58	54.00	-28.42	AV	200	0
4880.000	49.67	32.04	4.69	37.75	48.65	74.00	-25.35	PK	200	0
7320.000	14.65	36.10	6.63	35.60	21.78	54.00	-32.22	AV	200	0
7320.000	30.92	36.10	6.63	35.60	38.05	74.00	-35.95	PK	200	0
9760.000	17.60	38.30	8.03	35.03	28.90	54.00	-25.10	AV	200	0
9760.000	30.32	38.30	8.03	35.03	41.62	74.00	-32.38	PK	200	0



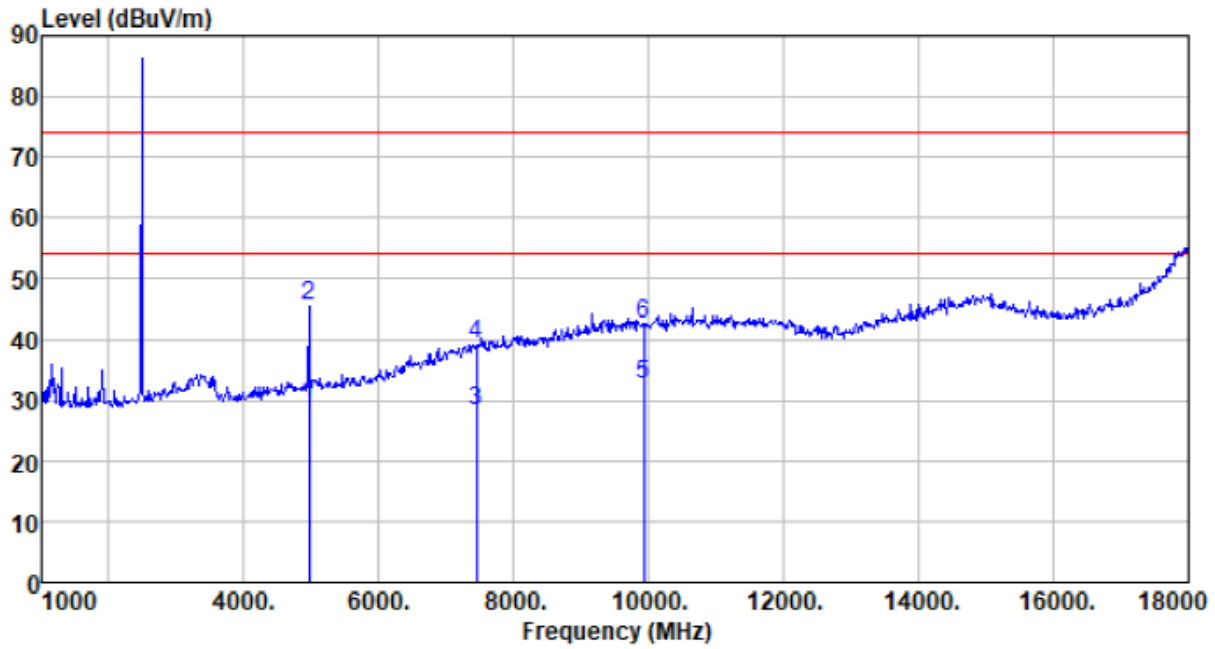
Vertical:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4880.000	25.55	32.04	4.69	37.75	24.53	54.00	-29.47	AV	200	0
4880.000	42.59	32.04	4.69	37.75	41.57	74.00	-32.43	PK	200	0
7320.000	19.20	36.10	6.63	35.60	26.33	54.00	-27.67	AV	200	0
7320.000	31.75	36.10	6.63	35.60	38.88	74.00	-35.12	PK	200	0
9760.000	23.33	38.30	8.03	35.03	34.63	54.00	-19.37	AV	200	0
9760.000	31.38	38.30	8.03	35.03	42.68	74.00	-31.32	PK	200	0

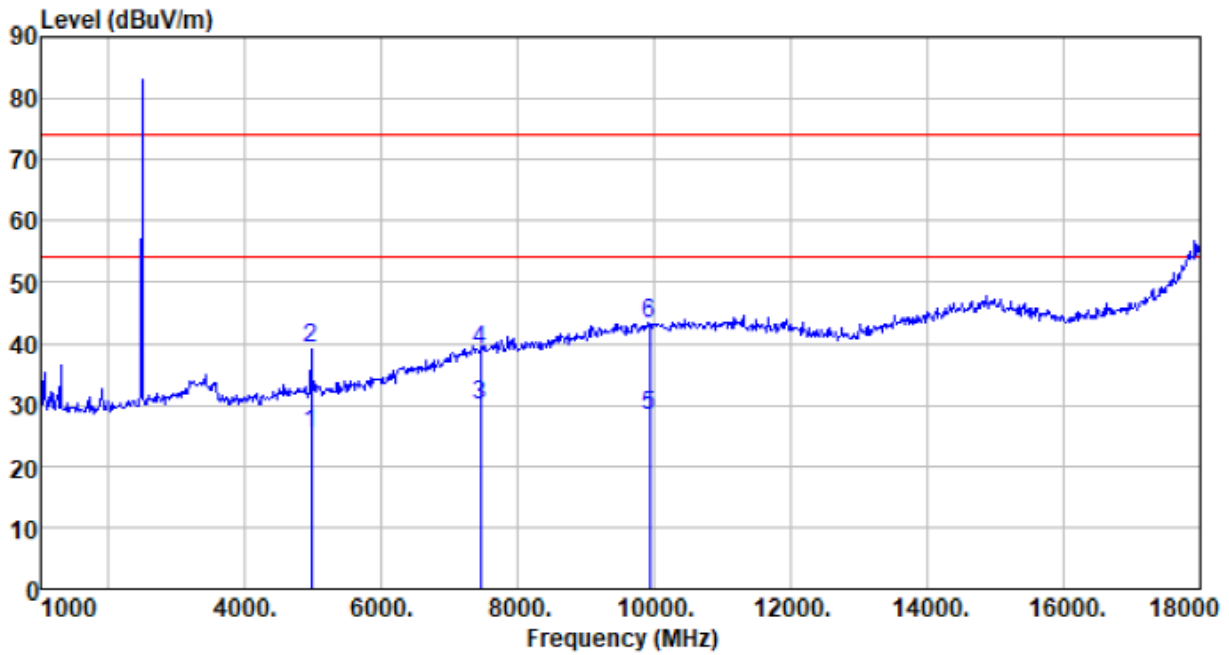
Test channel:	Highest
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Horizontal:



Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4960.000	30.05	32.32	4.79	37.78	29.27	54.00	-24.73	AV	200	0
4960.000	46.20	32.21	4.79	37.78	45.42	74.00	-28.58	PK	200	0
7440.000	20.63	36.43	6.77	35.56	28.27	54.00	-25.73	AV	200	0
7440.000	31.45	36.43	6.77	35.56	39.09	74.00	-34.91	PK	200	0
9920.000	21.17	38.37	8.09	35.14	32.49	54.00	-21.51	AV	200	0
9920.000	31.23	38.37	8.09	35.14	42.55	74.00	-31.45	PK	200	0

Vertical:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
4960.000	26.17	32.32	4.79	37.78	25.39	54.00	-28.61	AV	200	0
4960.000	39.98	32.21	4.79	37.78	39.20	74.00	-34.80	PK	200	0
7440.000	22.19	36.43	6.77	35.56	29.83	54.00	-24.17	AV	200	0
7440.000	31.31	36.43	6.77	35.56	38.95	74.00	-35.05	PK	200	0
9920.000	16.90	38.37	8.09	35.14	28.22	54.00	-25.78	AV	200	0
9920.000	31.94	38.37	8.09	35.14	43.26	74.00	-30.74	PK	200	0

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

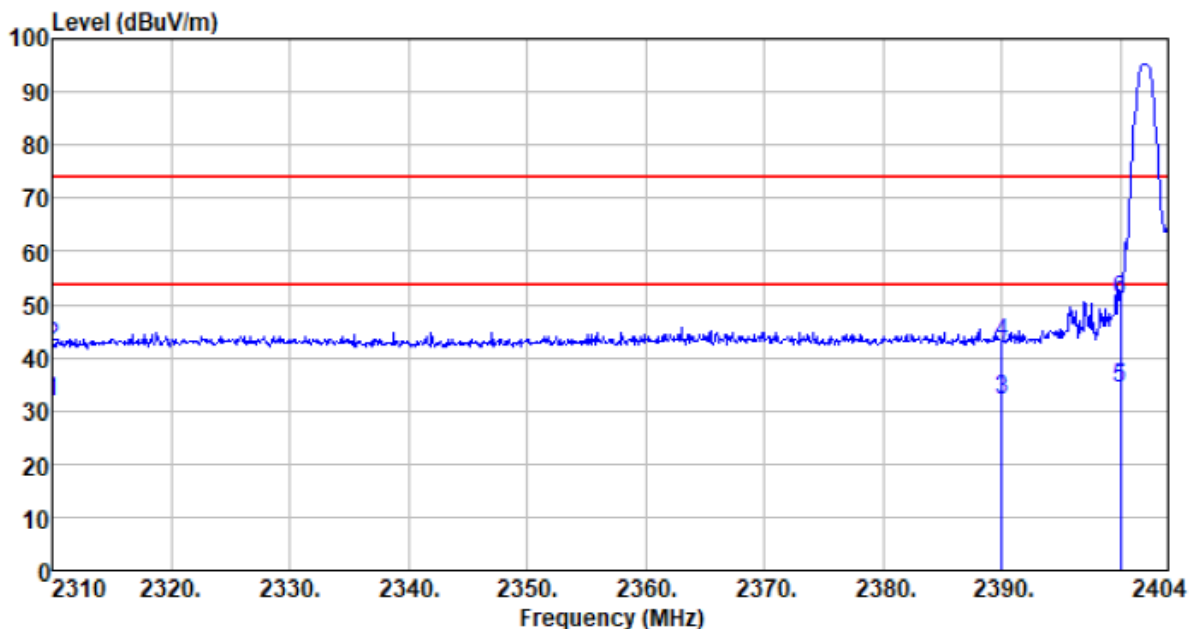
### 7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

ANT 1:

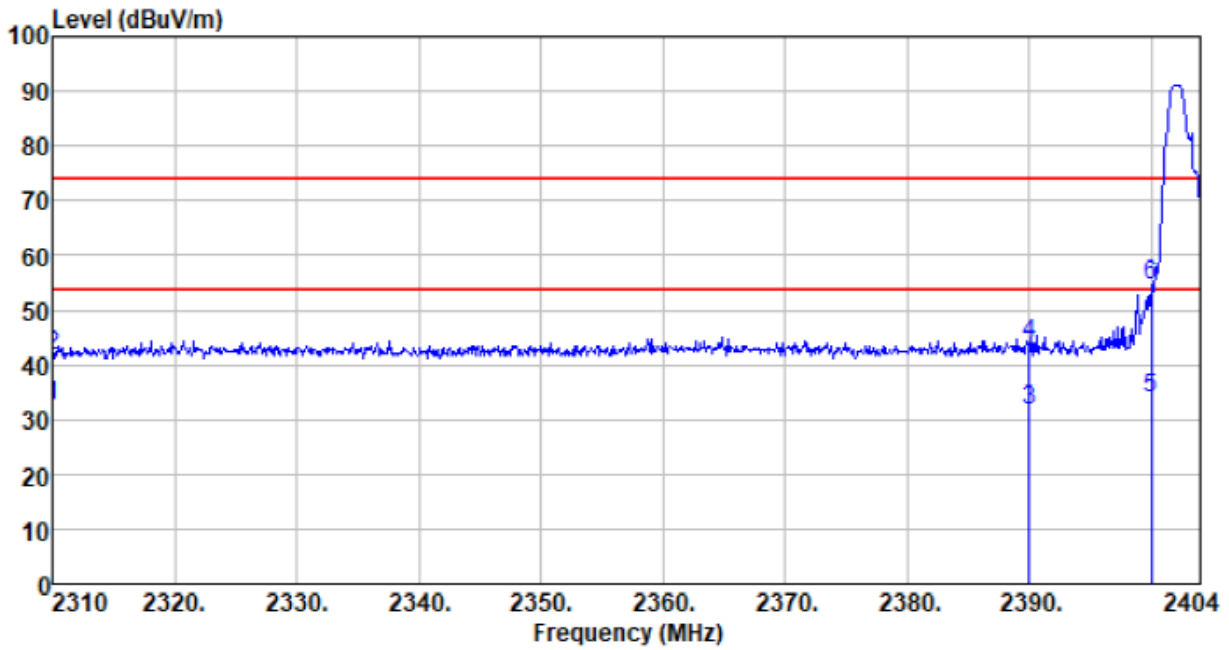
Test channel:	Lowest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	32.57	26.81	2.81	30.43	31.76	54.00	-22.24	AV	173	248
2310.000	42.71	26.81	2.81	30.43	41.90	74.00	-32.10	PK	173	248
2390.000	32.58	27.01	2.91	30.24	32.26	54.00	-21.74	AV	173	248
2390.000	43.23	27.01	2.91	30.24	42.91	74.00	-31.09	PK	173	248
2400.000	34.81	27.04	2.91	30.26	34.50	54.00	-19.50	AV	173	248
2400.000	51.17	27.04	2.91	30.26	50.86	74.00	-23.14	PK	173	248

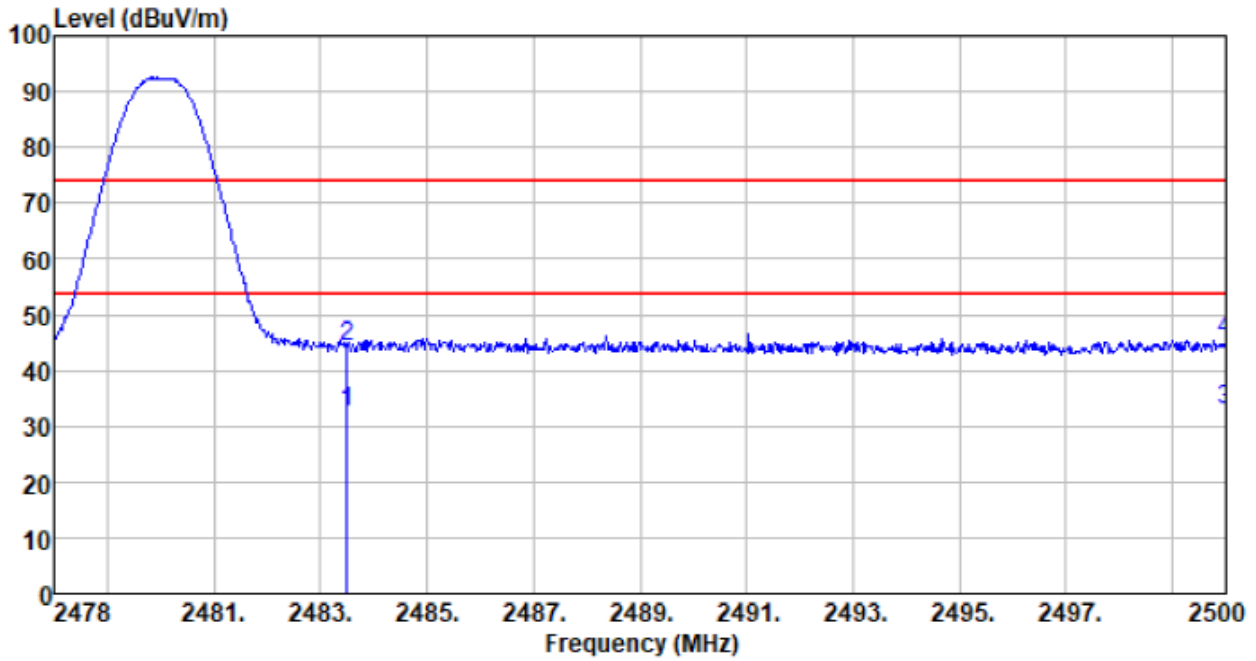
Vertical:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	33.37	26.81	2.81	30.43	32.56	54.00	-21.44	AV	167	224
2310.000	42.51	26.81	2.81	30.43	41.70	74.00	-32.30	PK	167	224
2390.000	32.12	27.01	2.91	30.24	31.80	54.00	-22.20	AV	167	224
2390.000	44.07	27.01	2.91	30.24	43.75	74.00	-30.25	PK	167	224
2400.000	34.23	27.04	2.91	30.26	33.92	54.00	-20.08	AV	167	224
2400.000	54.88	27.04	2.91	30.26	54.57	74.00	-19.43	PK	167	224

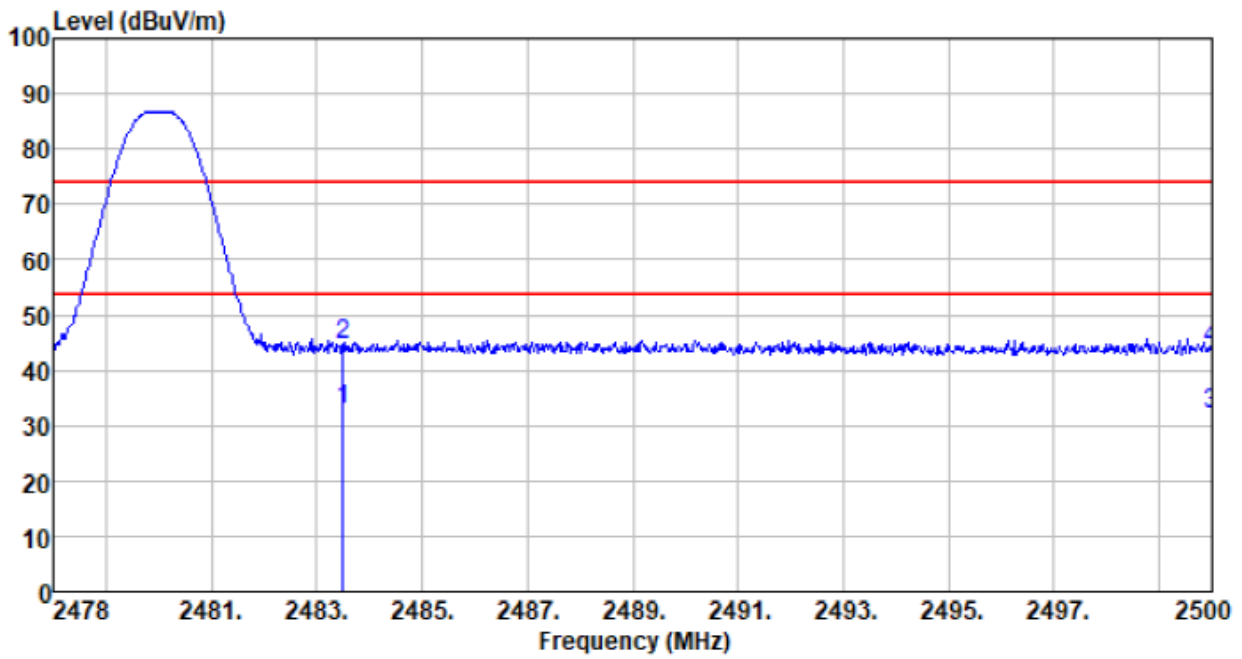
Test channel:	Highest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	Azimuth (deg.)
2483.500	32.20	27.26	2.99	30.12	32.33	54.00	-21.67	AV	173	248
2483.500	44.21	27.26	2.99	30.12	44.34	74.00	-29.66	PK	173	248
2500.000	32.77	27.30	3.01	30.13	32.95	54.00	-21.05	AV	173	248
2500.000	45.36	27.30	3.01	30.13	45.54	74.00	-28.46	PK	173	248

Vertical:

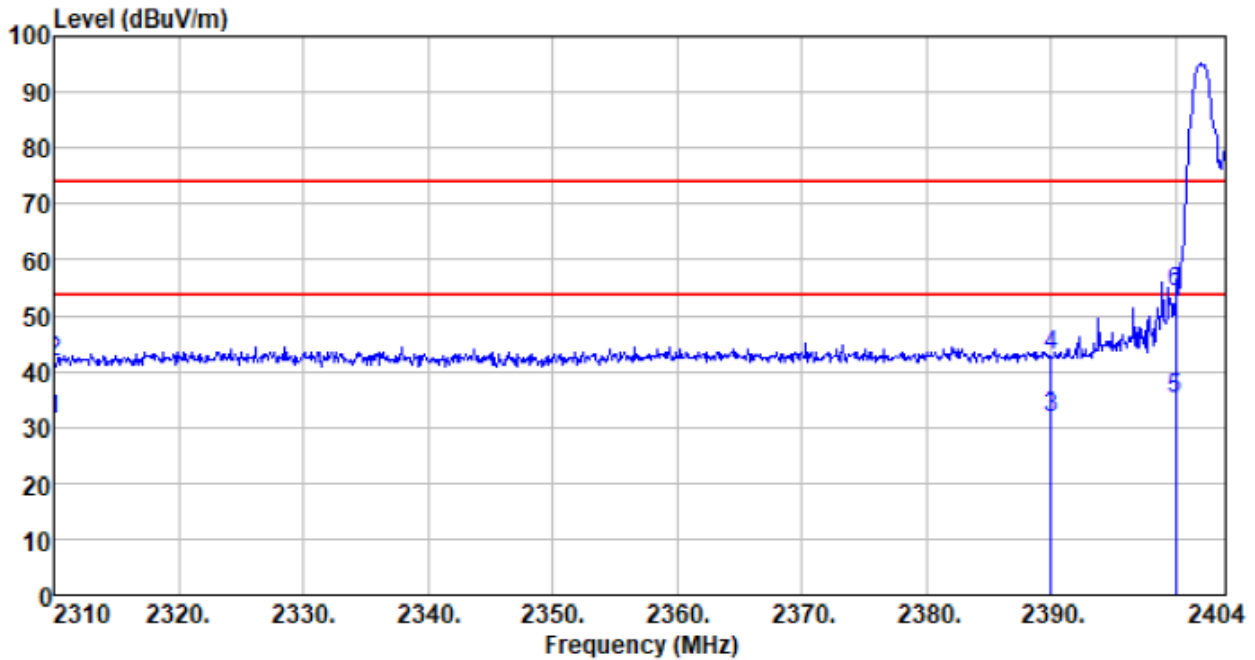


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2483.500	32.85	27.26	2.99	30.12	32.98	54.00	-21.02	AV	167	224
2483.500	44.47	27.26	2.99	30.12	44.60	74.00	-29.40	PK	167	224
2500.000	32.04	27.30	3.01	30.13	32.22	54.00	-21.78	AV	167	224
2500.000	43.63	27.30	3.01	30.13	43.81	74.00	-30.19	PK	167	224

**ANT 2:**

Test channel:	Lowest channel
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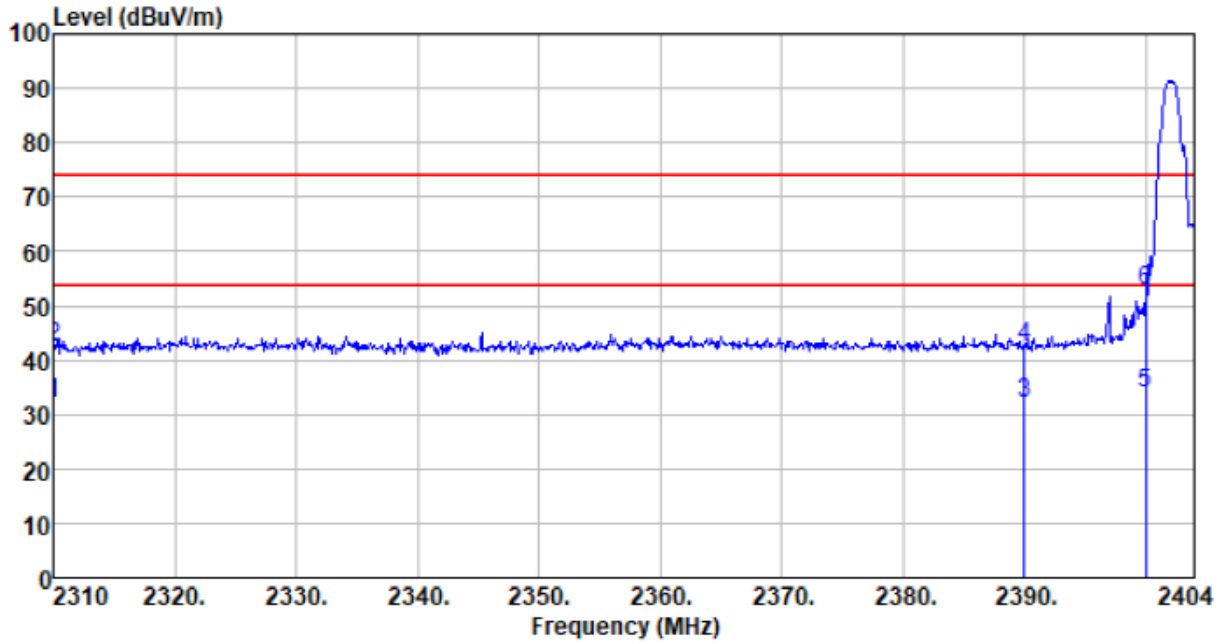
Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	32.21	26.81	2.81	30.43	31.40	54.00	-22.60	AV	155	149
2310.000	42.42	26.81	2.81	30.43	41.61	74.00	-32.39	PK	155	149
2390.000	31.96	27.01	2.91	30.24	31.64	54.00	-22.36	AV	155	149
2390.000	43.17	27.01	2.91	30.24	42.85	74.00	-31.15	PK	155	149
2400.000	35.44	27.04	2.91	30.26	35.13	54.00	-18.87	AV	155	149
2400.000	54.63	27.04	2.91	30.26	54.32	74.00	-19.68	PK	155	149



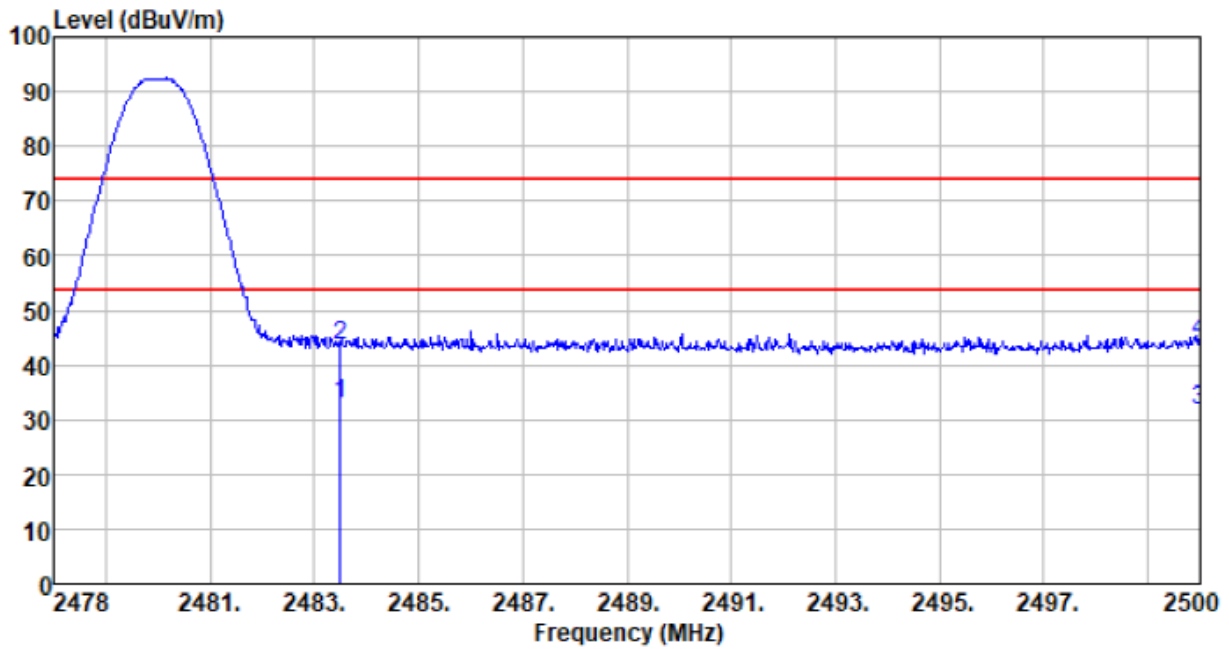
Vertical:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	32.82	26.81	2.81	30.43	32.01	54.00	-21.99	AV	172	108
2310.000	43.25	26.81	2.81	30.43	42.44	74.00	-31.56	PK	172	108
2390.000	32.39	27.01	2.91	30.24	32.07	54.00	-21.93	AV	172	108
2390.000	42.71	27.01	2.91	30.24	42.39	74.00	-31.61	PK	172	108
2400.000	34.43	27.04	2.91	30.26	34.12	54.00	-19.88	AV	172	108
2400.000	53.14	27.04	2.91	30.26	52.83	74.00	-21.17	PK	172	108

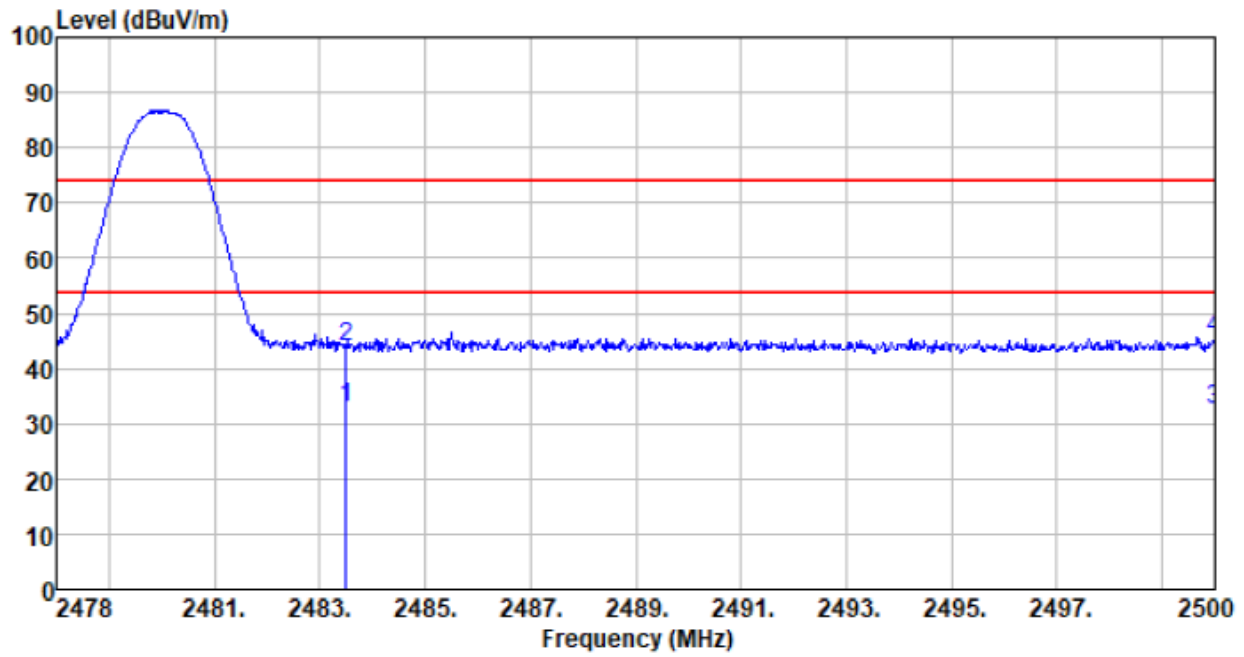
Test channel:	Highest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2483.500	32.89	27.26	2.99	30.12	33.02	54.00	-20.98	AV	155	149
2483.500	43.59	27.26	2.99	30.12	43.72	74.00	-30.28	PK	155	149
2500.000	31.56	27.30	3.01	30.13	31.74	54.00	-22.26	AV	155	149
2500.000	43.96	27.30	3.01	30.13	44.14	74.00	-29.86	PK	155	149

Vertical:

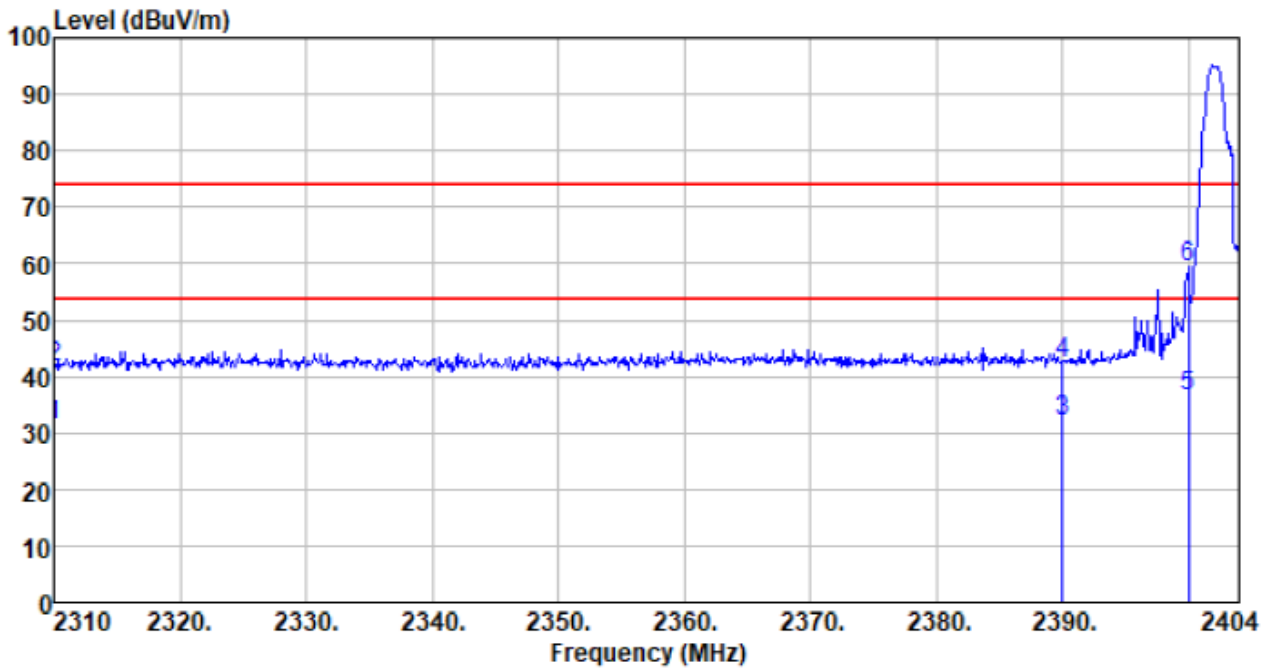


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2483.500	32.60	27.26	2.99	30.12	32.73	54.00	-21.27	AV	172	108
2483.500	43.88	27.26	2.99	30.12	44.01	74.00	-29.99	PK	172	108
2500.000	32.47	27.30	3.01	30.13	32.65	54.00	-21.35	AV	172	108
2500.000	45.08	27.30	3.01	30.13	45.26	74.00	-28.74	PK	172	108

**ANT 3:**

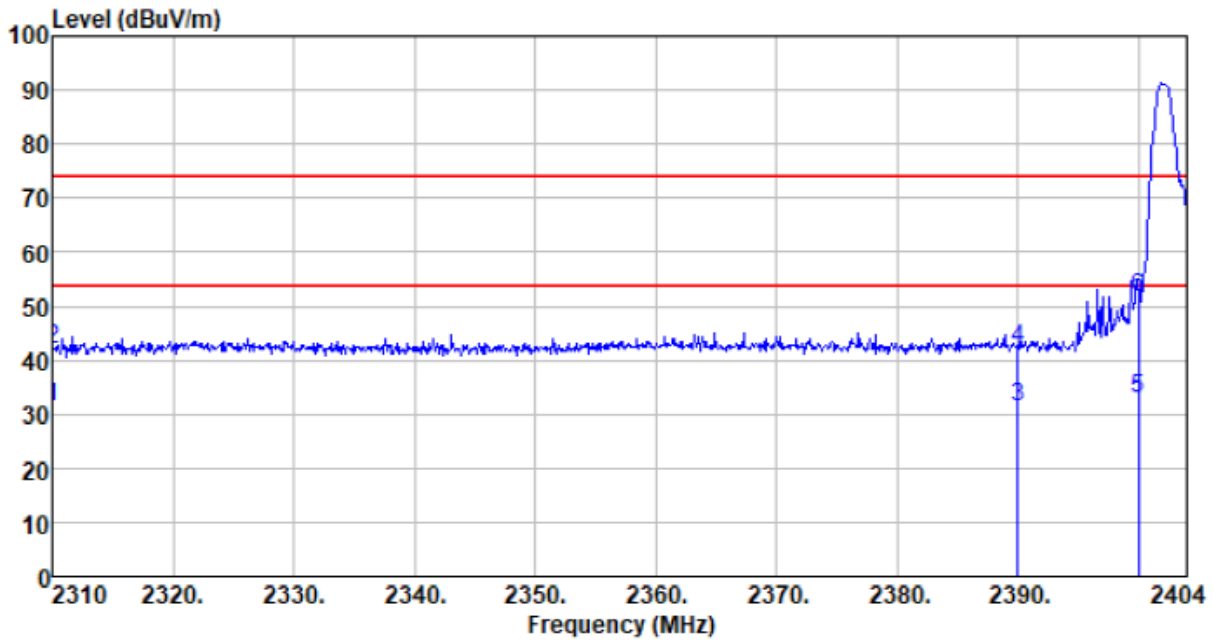
Test channel:	Lowest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	32.07	26.81	2.81	30.43	31.26	54.00	-22.74	AV	138	118
2310.000	42.65	26.81	2.81	30.43	41.84	74.00	-32.16	PK	138	118
2390.000	32.28	27.01	2.91	30.24	31.96	54.00	-22.04	AV	138	118
2390.000	42.93	27.01	2.91	30.24	42.61	74.00	-31.39	PK	138	118
2400.000	36.70	27.04	2.91	30.26	36.39	54.00	-17.61	AV	138	118
2400.000	59.87	27.04	2.91	30.26	59.56	74.00	-14.44	PK	138	118

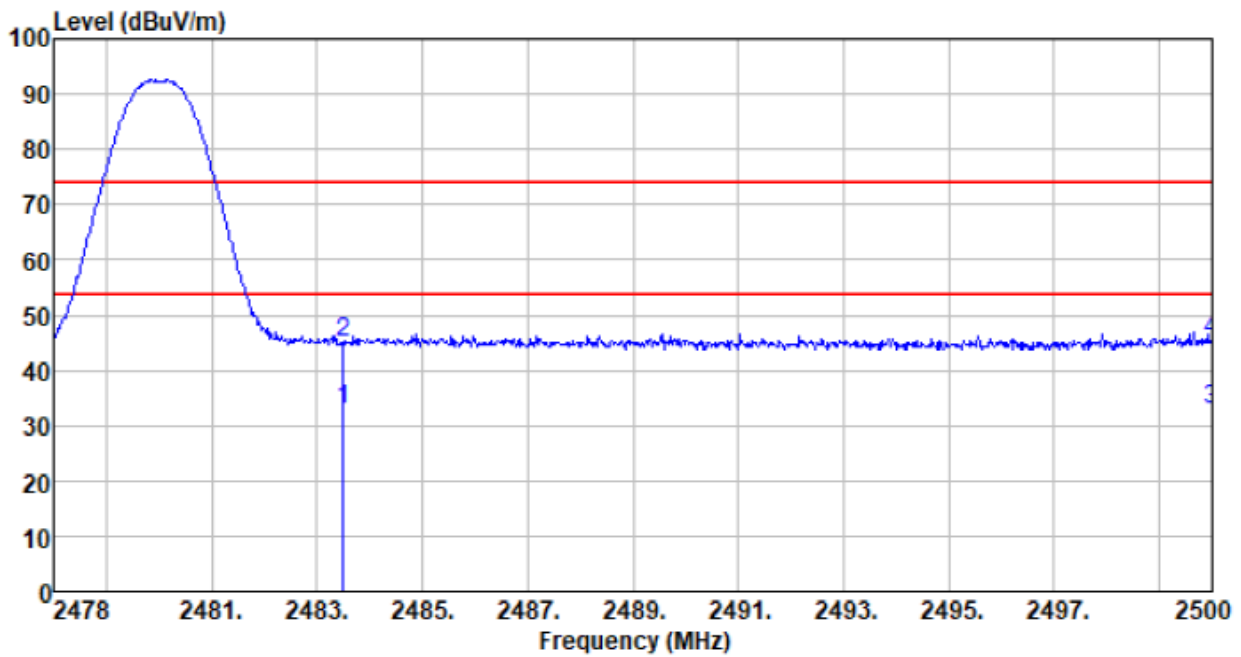
Vertical:



Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2310.000	32.15	26.81	2.81	30.43	31.34	54.00	-22.66	AV	184	213
2310.000	42.81	26.81	2.81	30.43	42.00	74.00	-32.00	PK	184	213
2390.000	31.81	27.01	2.91	30.24	31.49	54.00	-22.51	AV	184	213
2390.000	42.56	27.01	2.91	30.24	42.24	74.00	-31.76	PK	184	213
2400.000	33.28	27.04	2.91	30.26	32.97	54.00	-21.03	AV	184	213
2400.000	52.09	27.04	2.91	30.26	51.78	74.00	-22.22	PK	184	213

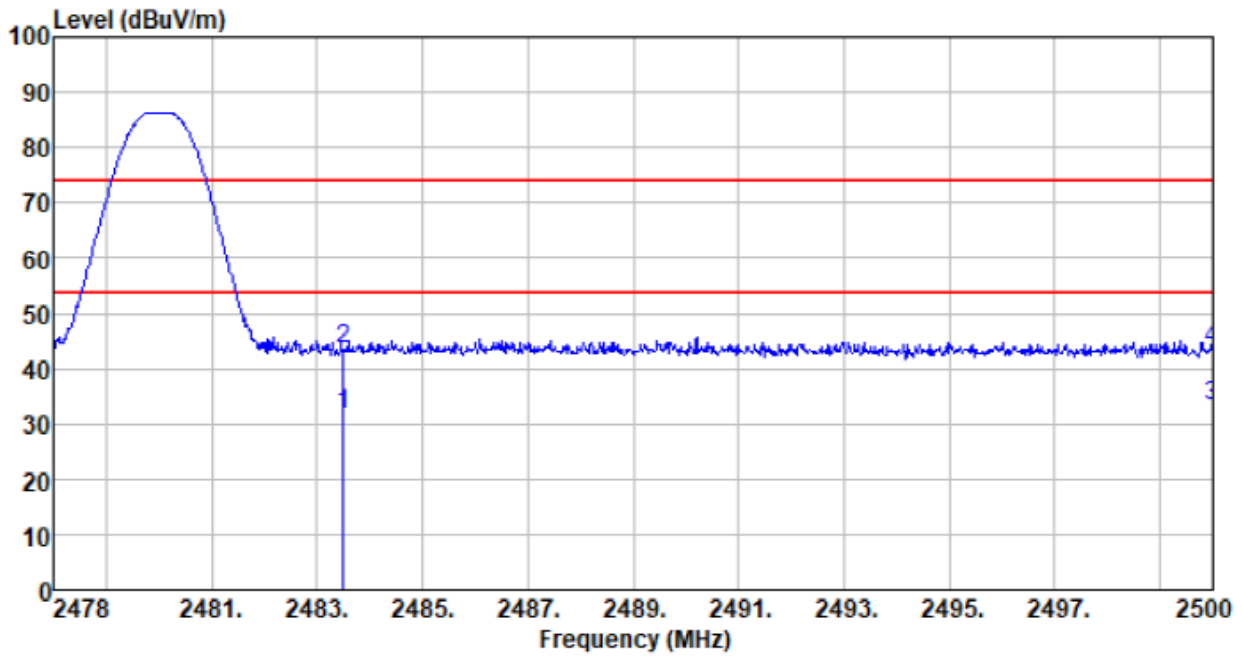
Test channel:	Highest channel
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Horizontal:



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2483.500	32.84	27.26	2.99	30.12	32.97	54.00	-21.03	AV	138	118
2483.500	44.73	27.26	2.99	30.12	44.86	74.00	-29.14	PK	138	118
2500.000	32.77	27.30	3.01	30.13	32.95	54.00	-21.05	AV	138	118
2500.000	45.36	27.30	3.01	30.13	45.54	74.00	-28.46	PK	138	118

Vertical:

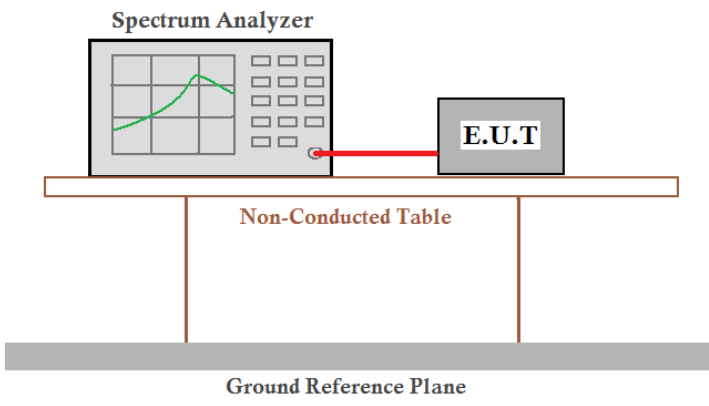


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detect or	Height (cm)	Azimuth (deg.)
2483.500	31.52	27.26	2.99	30.12	31.65	54.00	-22.35	AV	184	213
2483.500	43.26	27.26	2.99	30.12	43.39	74.00	-30.61	PK	184	213
2500.000	33.01	27.30	3.01	30.13	33.19	54.00	-20.81	AV	184	213
2500.000	43.31	27.30	3.01	30.13	43.49	74.00	-30.51	PK	184	213

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

## 7.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215 RSS-Gen Section 6.7
Test Method:	ANSI C63.10:2013 and RSS-Gen
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

### Measurement Data

Test channel	20dB bandwidth(MHz)			Result
	ANT 1	ANT 2	ANT 3	
Lowest	1.1014	0.981	0.981	Pass
Middle	0.992	0.992	0.986	Pass
Highest	1.016	0.968	0.961	Pass

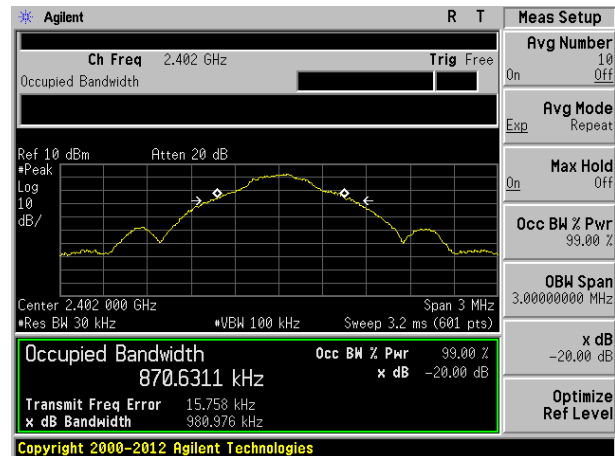
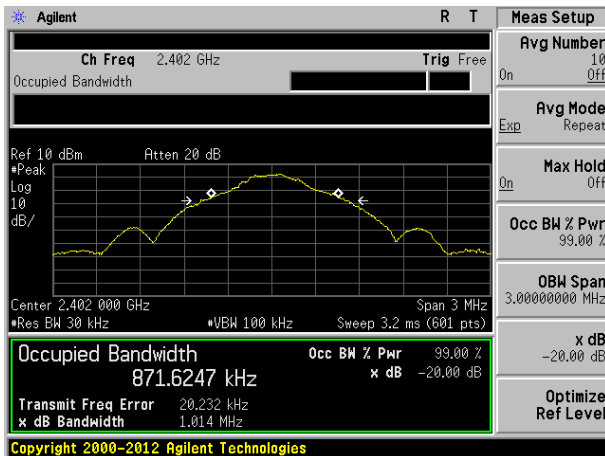
Test channel	99% bandwidth(MHz)			Result
	ANT 1	ANT 2	ANT 3	
Lowest	0.872	0.871	0.874	Pass
Middle	0.868	0.867	0.865	Pass
Highest	0.873	0.859	0.870	Pass



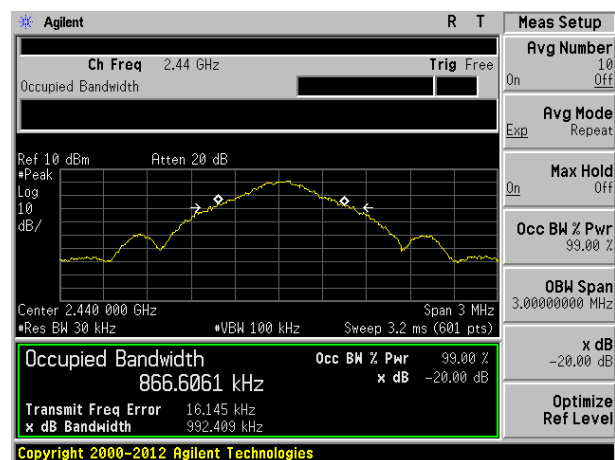
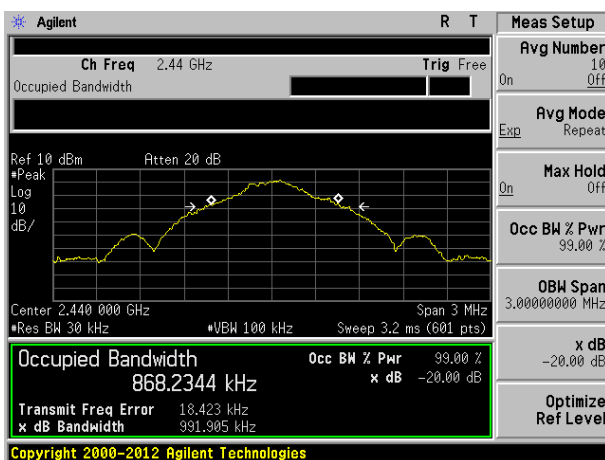
Test plot as follows:

ANT 1

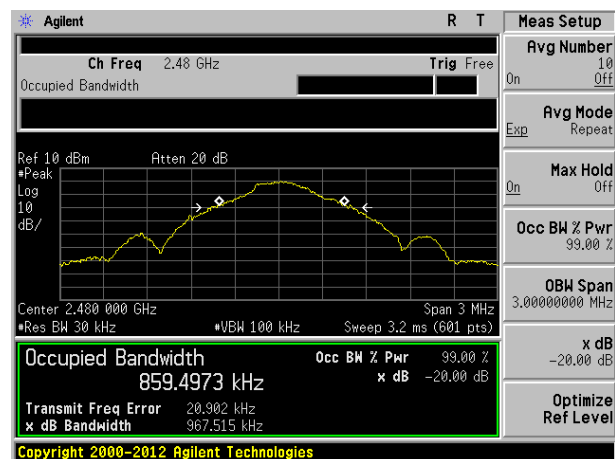
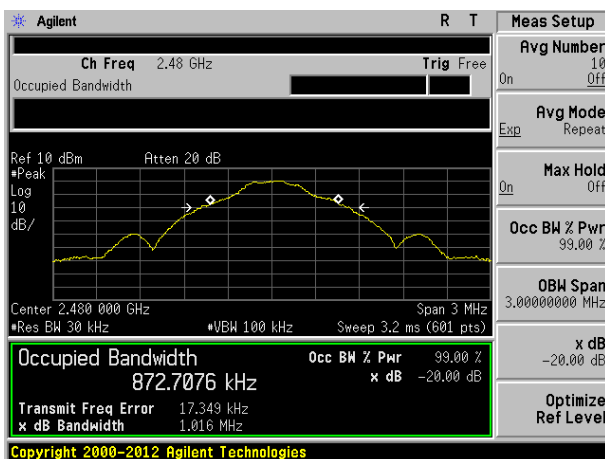
ANT 2



Lowest channel

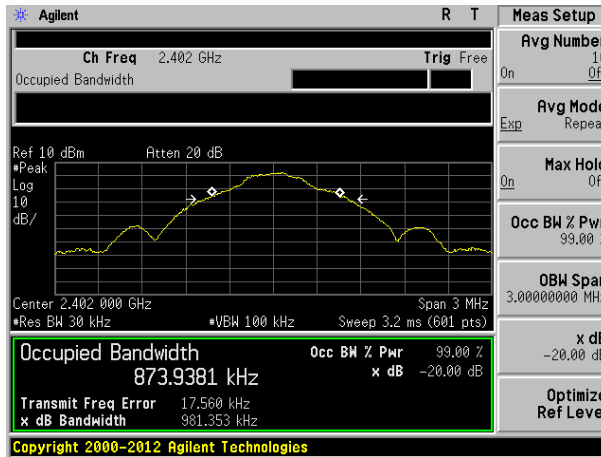


Middle channel

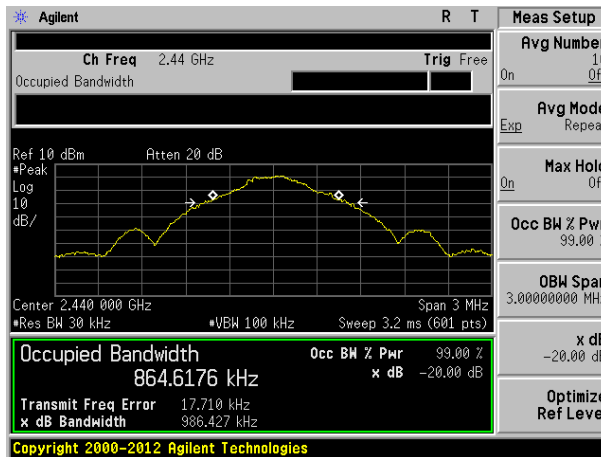


Highest channel

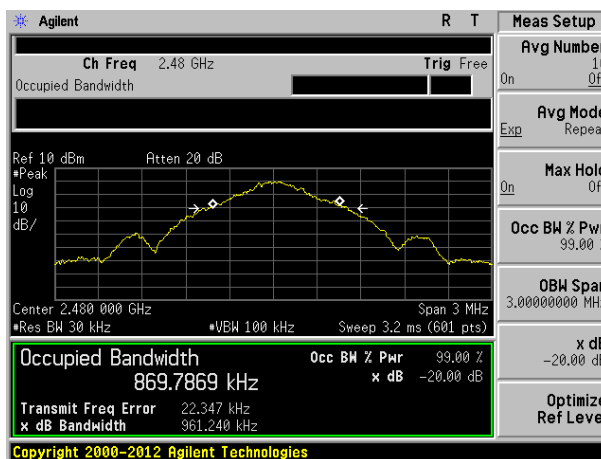
ANT 3



Lowest channel



Middle channel



Highest channel

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----