

FCC REPORT

Applicant: Coral Detection Systems
Address of Applicant: Kibbutz Hahotrim 3087000, Israel
Manufacturer/Factory: Coral Detection Systems
Address of Manufacturer/Factory: Kibbutz Hahotrim 3087000, Israel
Equipment Under Test (EUT)
Product Name: Coral Manta
Model No.: 3000 XX(x=numeric/alphabet, diff.outlook design)
Trade Mark: Coral Detection Systems
FCC ID: 2ARX8-MANTA3000
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249
Date of sample receipt: December 12, 2018
Date of Test: December 13-24, 2018
Date of report issued: December 25, 2018
Test Result : PASS *

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

Authorized Signature:



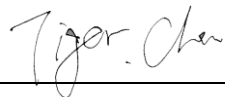
Robinson Lo
Laboratory Manager

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	December 25, 2018	Original

Prepared By:



Date:

December 25, 2018

Project Engineer

Check By:



Date:

December 25, 2018

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205 15.209	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10: 2013 and ANSI C63.4: 2014.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(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:	Coral Manta
Model No.:	3000 XX(x=numeric/alphabet, diff.outlook design)
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.</i>	
Serial No.:	N/A
Test sample(s) ID:	GTS201812000096-01
Sample(s) Status:	Engineer sample
Hardware version:	Ver 02
Software version:	1.4.1
Operation Frequency:	915MHz
Modulation type:	FSK, MSK, OOK
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi
Power supply:	AC 120V/60Hz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

5.3 Description of Support Units

Noe

5.4 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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. ● Industry Canada (IC) —Registration No.: 9079A-2 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-2. ● 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 ● CNAS (No. CNAS L5775) CNAS has accredited Global United Technology Services Co., Ltd., to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

5.5 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

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. 03 2015	July. 02 2020
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. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS588	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019

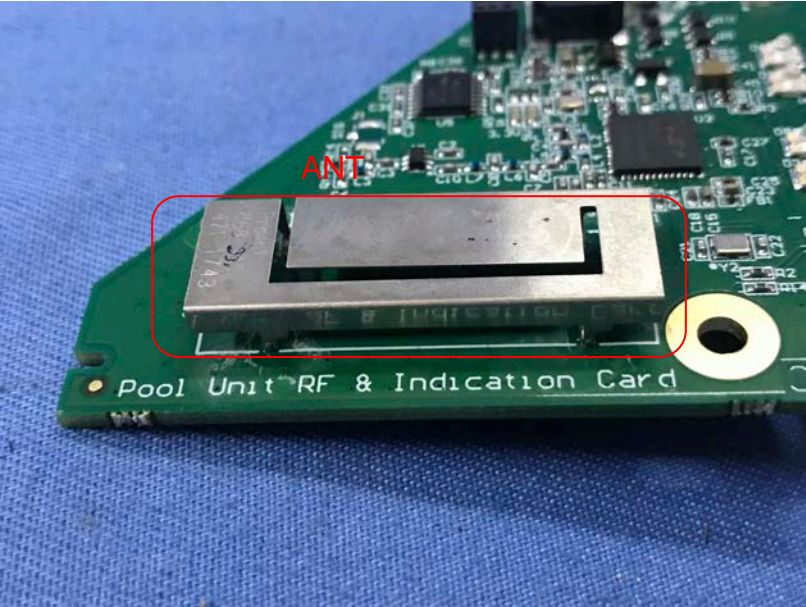
Conducted:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

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.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
5	Coaxial Cable	GTS	N/A	GTS227	June. 27 2018	June. 26 2019
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 27 2018	June 26 2019

7 Test results and Measurement Data

7.1 Antenna requirement:

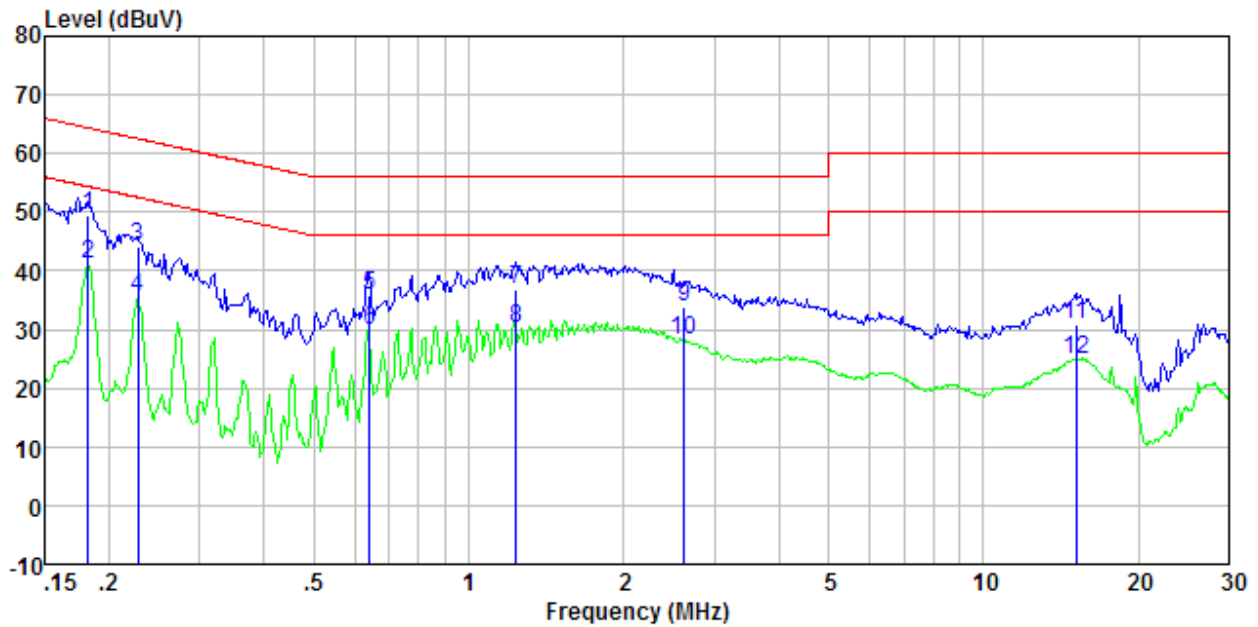
Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a 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>EUT Antenna:</p>	
<p><i>The antenna is integral antenna; the best case gain of the antenna is 2.0dBi.</i></p> 	

7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
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><i>Remark</i> 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"> 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. 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). 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: 2013 on conducted measurement. 						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

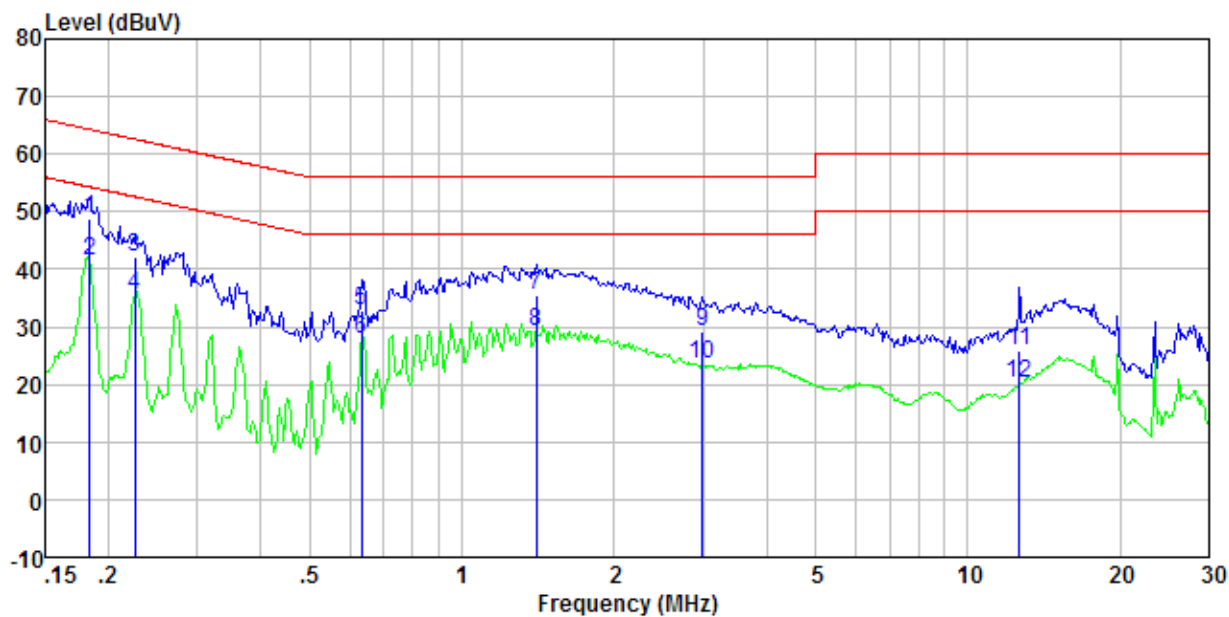
Measurement data:

Test mode:	transmitting mode	Phase Polarity:	Line
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Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.18	48.89	0.40	0.10	49.39	64.37	-14.98	QP
0.18	40.57	0.40	0.10	41.07	54.37	-13.30	Average
0.23	43.50	0.40	0.11	44.01	62.52	-18.51	QP
0.23	34.92	0.40	0.11	35.43	52.52	-17.09	Average
0.64	35.55	0.27	0.12	35.94	56.00	-20.06	QP
0.64	29.31	0.27	0.12	29.70	46.00	-16.30	Average
1.24	36.46	0.20	0.16	36.82	56.00	-19.18	QP
1.24	29.80	0.20	0.16	30.16	46.00	-15.84	Average
2.62	33.54	0.20	0.19	33.93	56.00	-22.07	QP
2.62	27.77	0.20	0.19	28.16	46.00	-17.84	Average
15.15	30.54	0.20	0.21	30.95	60.00	-29.05	QP
15.15	24.48	0.20	0.21	24.89	50.00	-25.11	Average

Test mode:	transmitting mode	Phase Polarity:	Neutral
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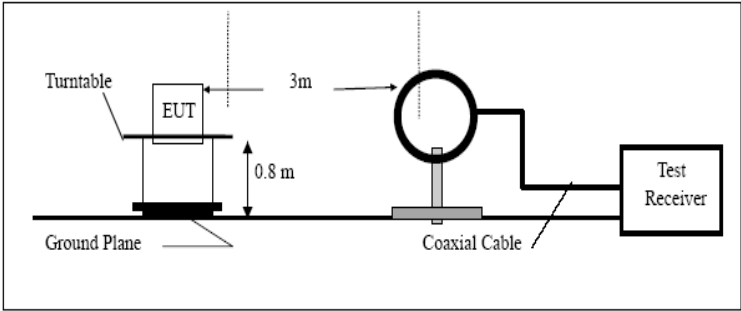


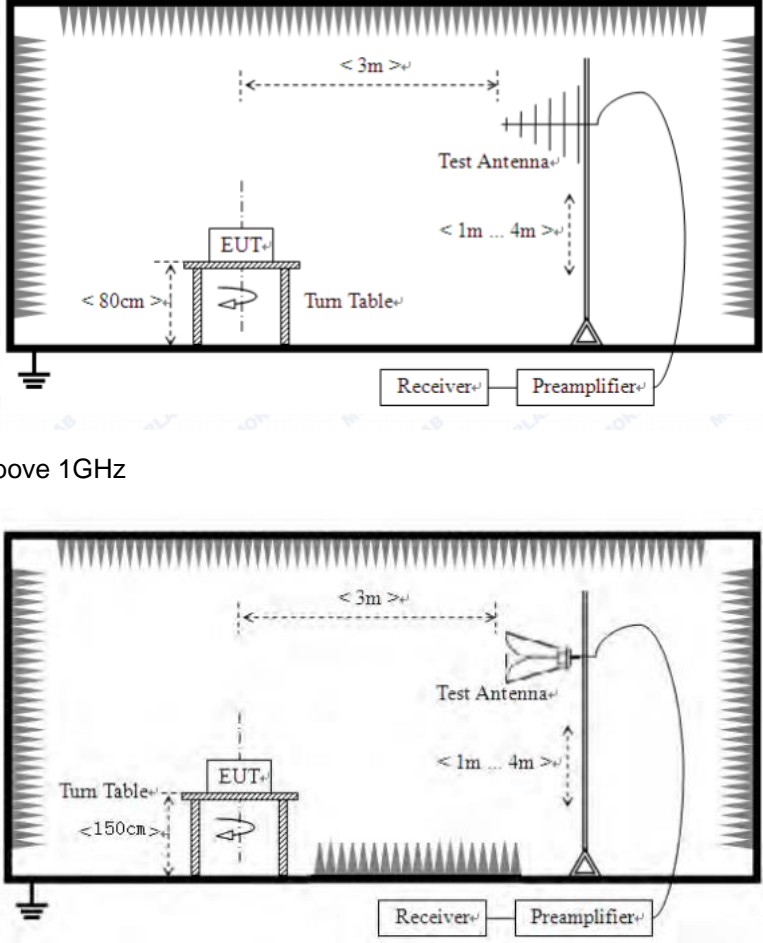
Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.18	48.33	0.40	0.10	48.83	64.33	-15.50	QP
0.18	40.96	0.40	0.10	41.46	54.33	-12.87	Average
0.23	41.56	0.40	0.11	42.07	62.61	-20.54	QP
0.23	34.83	0.40	0.11	35.34	52.61	-17.27	Average
0.63	32.51	0.28	0.12	32.91	56.00	-23.09	QP
0.63	27.55	0.28	0.12	27.95	46.00	-18.05	Average
1.40	35.12	0.20	0.16	35.48	56.00	-20.52	QP
1.40	28.79	0.20	0.16	29.15	46.00	-16.85	Average
2.99	28.88	0.20	0.19	29.27	56.00	-26.73	QP
2.99	23.11	0.20	0.19	23.50	46.00	-22.50	Average
12.65	25.54	0.20	0.21	25.95	60.00	-34.05	QP
12.65	19.89	0.20	0.21	20.10	50.00	-29.90	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																									
Test Method:	ANSI C63.10:2013																									
Test Frequency Range:	9kHz to 6GHz																									
Test site:	Measurement Distance: 3m																									
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120KHz</td> <td>300KHz</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average</td> </tr> </tbody> </table>				Frequency	Detector	RBW	VBW	Value	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	10Hz	Average			
Frequency	Detector	RBW	VBW	Value																						
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak																						
Above 1GHz	Peak	1MHz	3MHz	Peak																						
	Peak	1MHz	10Hz	Average																						
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)	Remark																						
	902-928MHz		94.00	Average Value																						
			114.00	Peak Value																						
Limit: (Spurious Emissions)	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (uV/m)</th> <th>Value</th> <th>Measurement Distance</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>100</td> <td>QP</td> <td rowspan="5">3m</td> </tr> <tr> <td>88MHz-216MHz</td> <td>150</td> <td>QP</td> </tr> <tr> <td>216MHz-960MHz</td> <td>200</td> <td>QP</td> </tr> <tr> <td>960MHz-1GHz</td> <td>500</td> <td>QP</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>500</td> <td>Average</td> </tr> <tr> <td>5000</td> <td>Peak</td> </tr> </tbody> </table>				Frequency	Limit (uV/m)	Value	Measurement Distance	30MHz-88MHz	100	QP	3m	88MHz-216MHz	150	QP	216MHz-960MHz	200	QP	960MHz-1GHz	500	QP	Above 1GHz	500	Average	5000	Peak
Frequency	Limit (uV/m)	Value	Measurement Distance																							
30MHz-88MHz	100	QP	3m																							
88MHz-216MHz	150	QP																								
216MHz-960MHz	200	QP																								
960MHz-1GHz	500	QP																								
Above 1GHz	500	Average																								
	5000	Peak																								
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>Below 30MHz</p>  <p>Below 1GHz</p>																									

	 <p>Above 1GHz</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

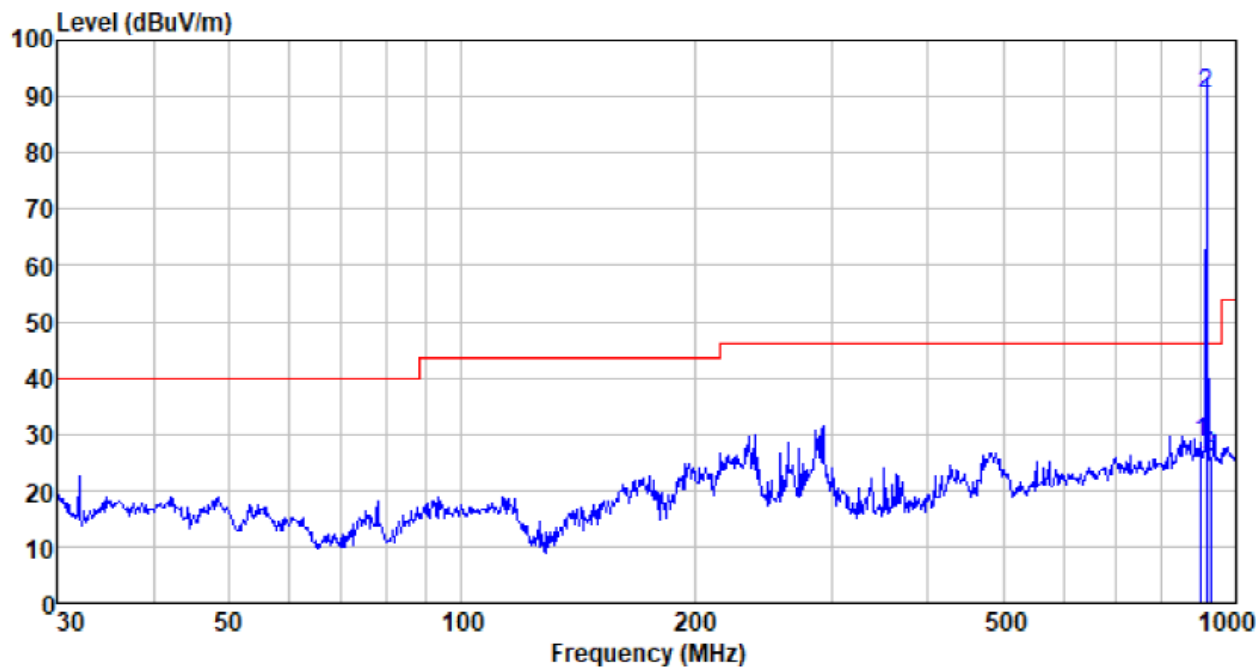
Measurement data:

■ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

7.3.1 Field Strength of The Fundamental Signal and spurious emissions

Test mode:	transmitting mode	Antenna Polarity:	Horizontal
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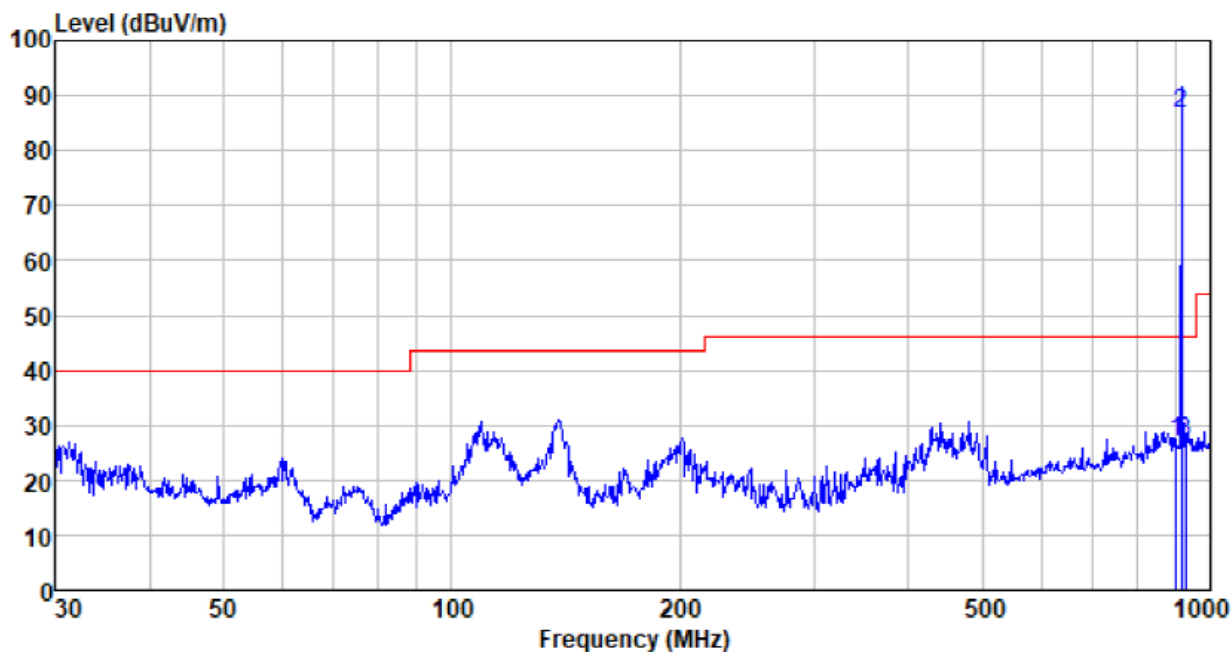
Field Strength:

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)	Polarity	Remark
915	100.69	22.43	4.91	37.59	90.44	94	-3.56	Horizontal	QP

Band Edge:

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)	Polarity	Remark
902	38.72	22.40	4.87	37.60	28.39	46	-17.61	Horizontal	QP
928	35.84	22.46	4.96	37.57	25.69	46	-20.31	Horizontal	QP

Test mode:	transmitting mode	Antenna Polarity:	Vertical
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Field Strength:

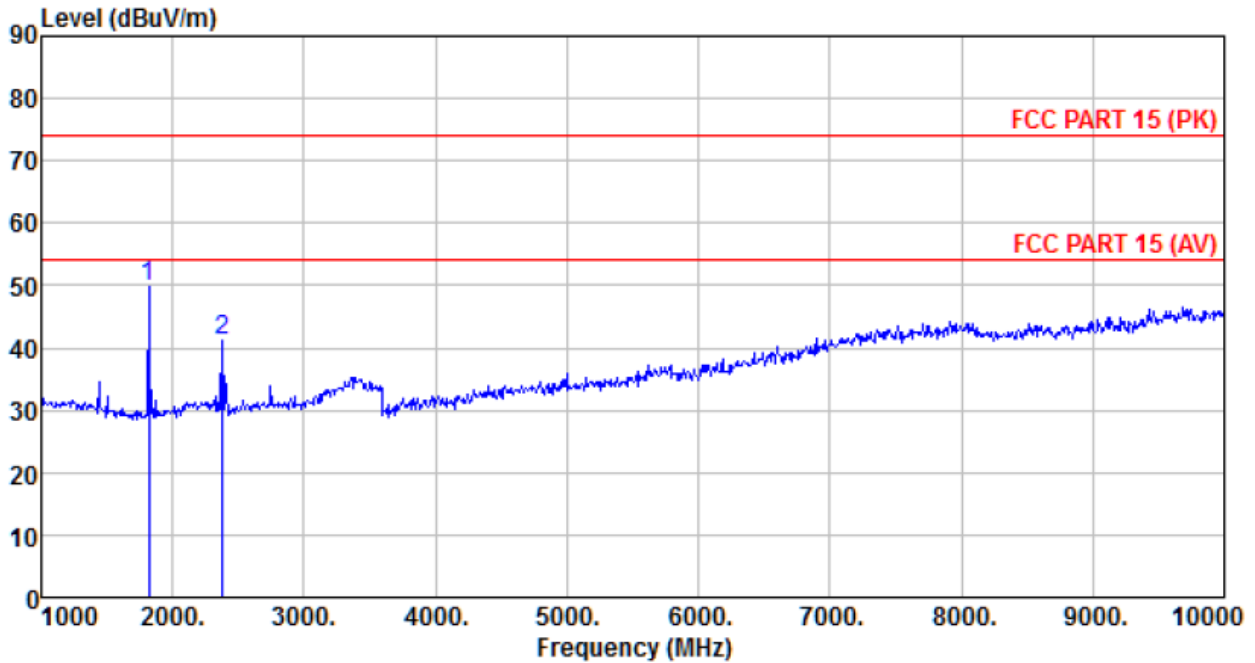
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarity	Remark
915	96.88	22.43	4.91	37.59	86.63	94	-7.37	Vertical	QP

Band Edge:

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)	Polarity	Remark
902	37.33	22.40	4.87	37.60	27.00	46	-19.00	Vertical	QP
928	37.02	22.46	4.96	37.57	26.87	46	-19.13	Vertical	QP

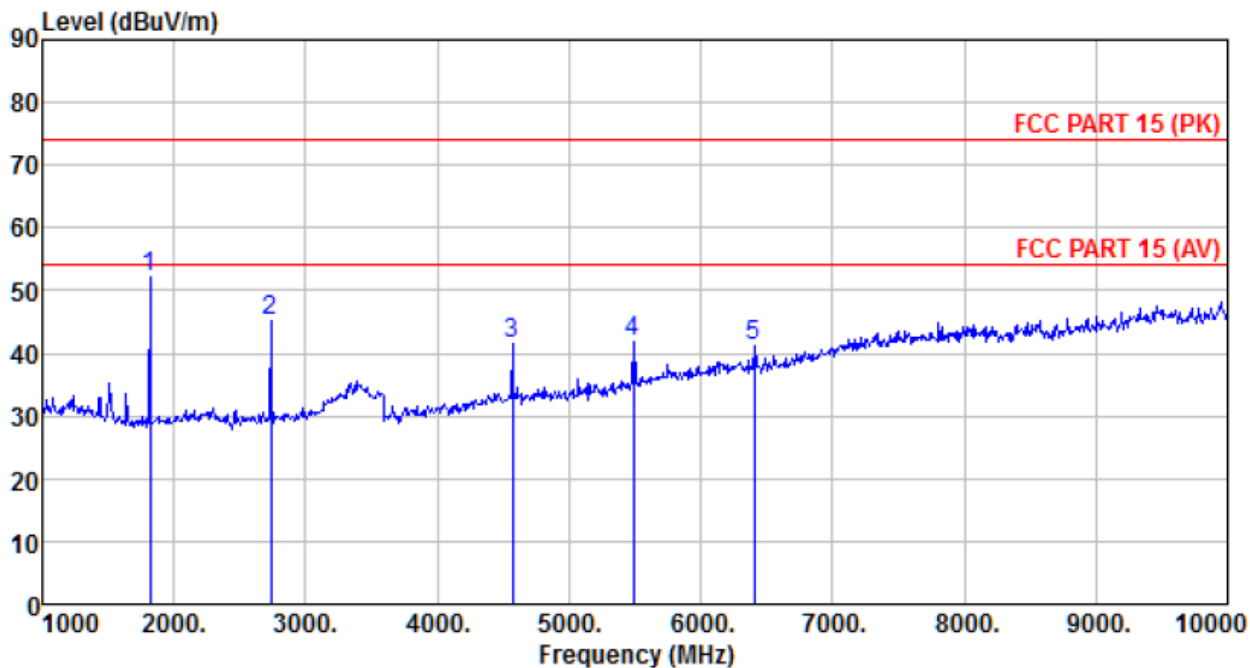
Above 1GHz

Test mode:	transmitting mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1819.000	81.48	0.00	4.87	36.39	49.96	74.00	-24.04	Peak
2377.000	72.69	0.00	5.37	36.84	41.22	74.00	-32.78	Peak

Test mode:	transmitting mode	Antenna Polarity:	Vertical
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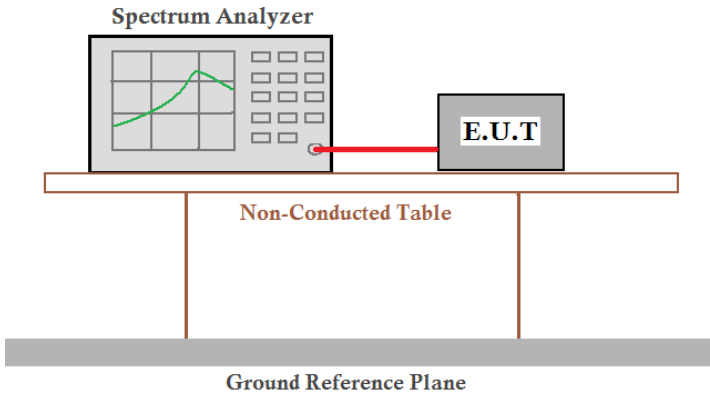


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
1819.000	58.28	25.37	4.87	36.39	52.13	74.00	-21.87	Peak
2737.000	48.38	28.23	5.70	37.12	45.19	74.00	-28.81	Peak
4573.000	39.22	31.47	8.40	37.64	41.45	74.00	-32.55	Peak
5491.000	37.49	31.98	9.49	37.09	41.87	74.00	-32.13	Peak
6409.000	33.03	33.49	10.78	36.10	41.20	74.00	-32.80	Peak

Remark:

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

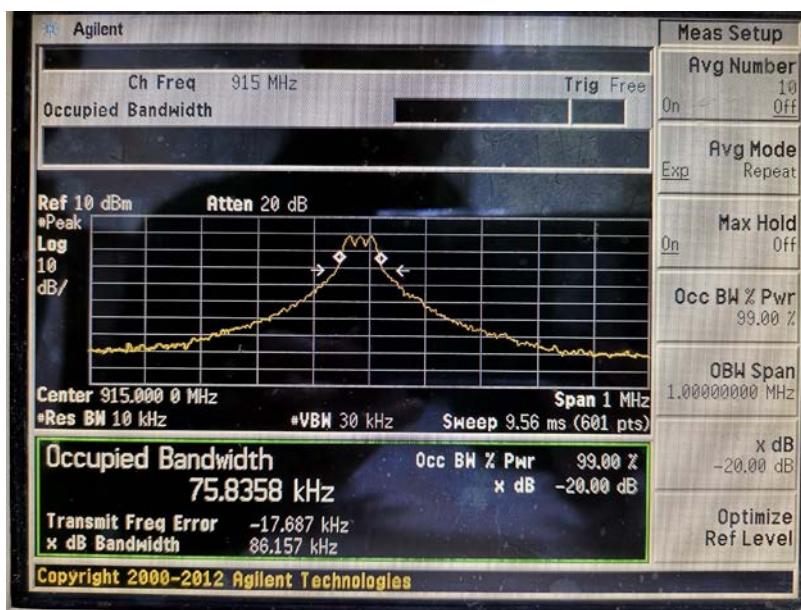
7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 902MHz~928MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is 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

Operation Frequency	20dB bandwidth(MHz)	Result
915	0.08616	Pass

Test plot as follows:



8 Test Setup Photo

Reference to the [appendix I](#) for details.

9 EUT Constructional Details

Reference to the [appendix II](#) for details.

-----End-----