

TEST REPORT

Product : Rais2.1 Base Station
Trade mark : N/A
Model/Type reference : Rais2.1
Serial Number : N/A
Report Number : EED32P80467601
FCC ID : 2AVOR-BASE423
Date of Issue : Jun. 08, 2023
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Retail Aware, Inc**808 Conagra Dr ; Ste 401 ; Omaha, Ne 68102**

Prepared by:

Centre Testing International Group Co., Ltd.**Hongwei Industrial Zone, Bao'an 70 District,****Shenzhen, Guangdong, China****TEL: +86-755-3368 3668****FAX: +86-755-3368 3385**

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Date of issue:

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Jun. 08, 2023

Check No.: 8012060423



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3 Version

Version No.	Date	Description
00	Jun. 08, 2023	Original

4 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

5 General Information

5.1 Client Information

Applicant:	Retail Aware, Inc
Address of Applicant:	808 Conagra Dr ; Ste 401 ; Omaha, Ne 68102
Manufacturer:	Retail Aware, Inc
Address of Manufacturer:	808 Conagra Dr ; Ste 401 ; Omaha, Ne 68102
Factory:	Retail Aware, Inc
Address of Factory:	808 Conagra Dr ; Ste 401 ; Omaha, Ne 68102

5.2 General Description of EUT

Product Name:	Rais2.1 Base Station		
Mode No.(EUT):	Rais2.1		
Trade mark:	N/A		
Product Type:	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location		
Device Type:	DTS		
Operation Frequency:	902 MHz~928MHz		
Center Frequency:	914.88 MHz		
Number of Channel:	1		
Antenna Type:	External antenna		
Antenna Gain:	5.0dBi		
Power Supply:	Adapter:	AC 100-240V~50/60Hz 0.25A	
Test Voltage:	AC 120V/60Hz		
Sample Received Date:	Apr. 06, 2023		
Sample tested Date:	Apr. 06, 2023 to Apr. 22, 2023		

Operation Frequency each of channel

Channel	Frequency
Only Channel	914.88 MHz

5.3 Test Configuration

EUT Test Software Settings:	
Software:	RF test
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)
This EUT was set to transmit in a worse-case scenario with modulation on. For duty cycle, the highest possible duty cycle was used. For other transmitter testes, the transmitter was set to transmit continuously.	

5.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

5.5 Description of Support Units

The EUT has been tested with associated equipment below.
support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

5.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

6 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	07-06-2022	07-05-2023
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-19-2022	12-18-2023
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-06-2022	05-05-2023
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	09-27-2022	09-26-2023
Barometer	changchun	DYM3	1188	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	07-13-2022	07-12-2023
ISN	TESEQ	ISN T800	30297	01-04-2022	12-29-2023

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023
Spectrum Analyzer	R&S	FSV40	101200	07/29/2022	07/28/2023
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/23/2022	12/23/2023
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05/29/2021	05/28/2024
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Preamplifier	Agilent	11909A	12-1	03/28/2023	03/27/2024
Preamplifier	CD	PAP-1840-60	6041.6042	07/05/2022	07/04/2023
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022 04-13-2023	04-19-2023 04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EJ1611457	02-15-2023	02-14-2024
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

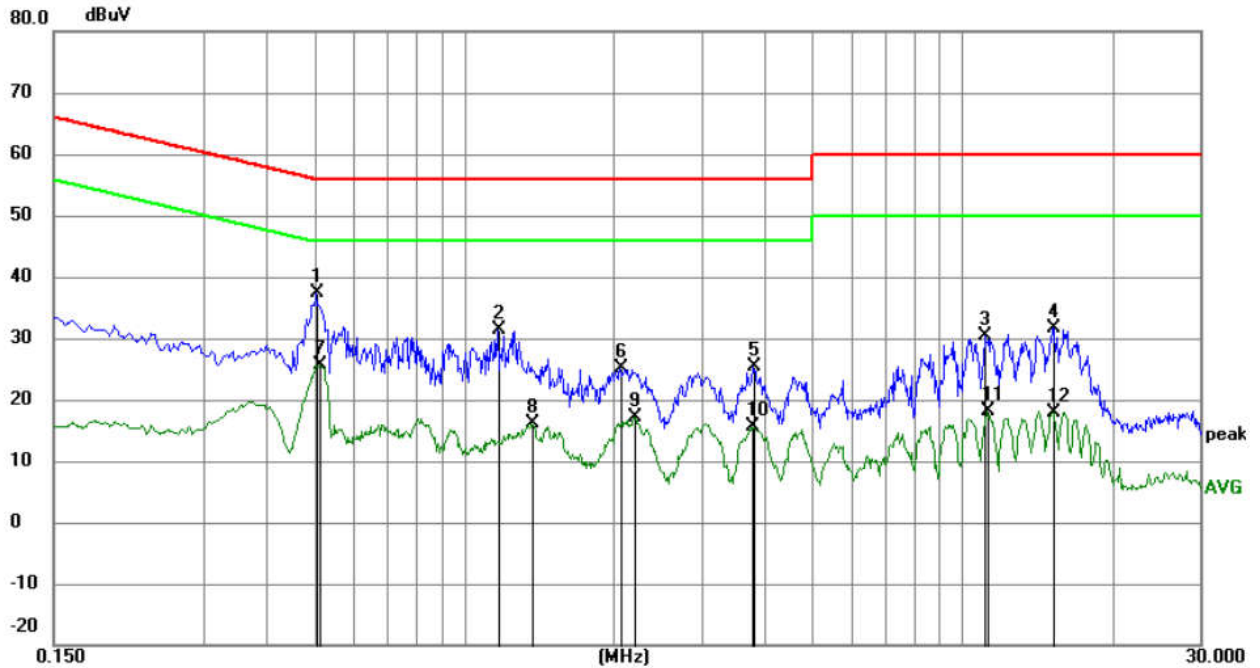
7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: 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. 15.247(b) (4) requirement: 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.	
EUT Antenna:	Please see Internal photos
The antenna is External antenna. The best case gain of the antenna is 5.0dBi.	

Measurement Data

Live line:

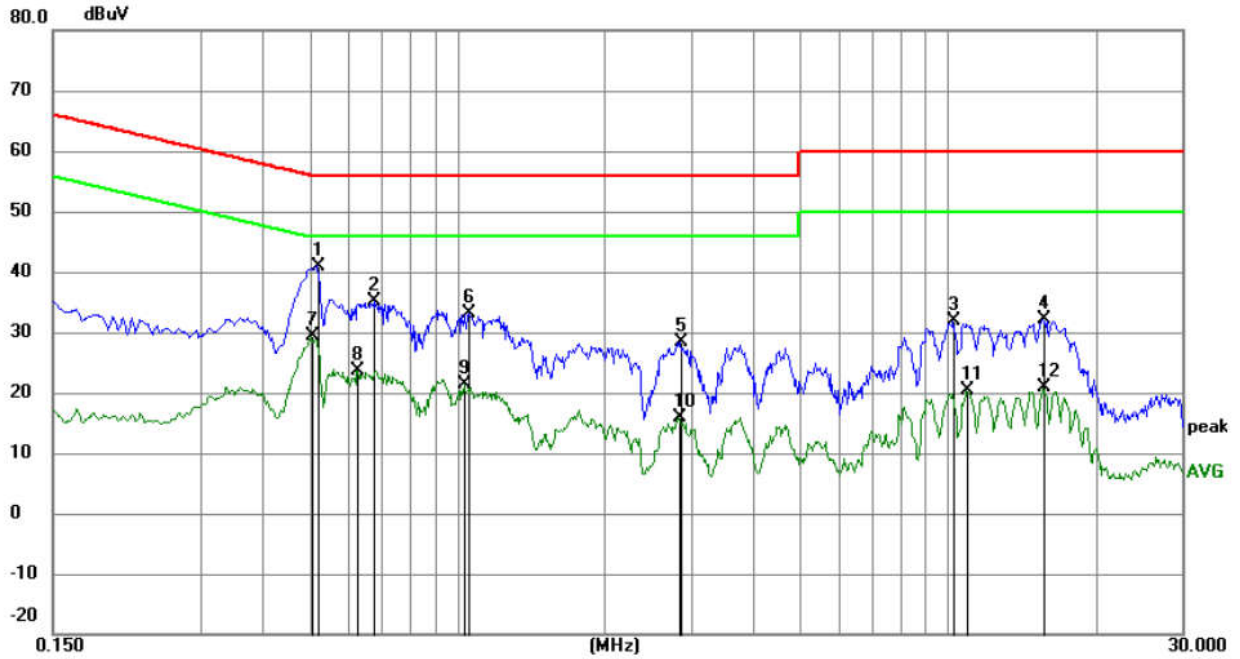


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.5055	27.47	9.96	37.43	56.00	-18.57	QP	
2		1.1715	21.49	9.82	31.31	56.00	-24.69	QP	
3		11.1345	20.56	9.81	30.37	60.00	-29.63	QP	
4		15.2160	21.79	9.93	31.72	60.00	-28.28	QP	
5		3.8040	15.70	9.78	25.48	56.00	-30.52	QP	
6		2.0579	15.32	9.79	25.11	56.00	-30.89	QP	
7		0.5144	15.64	9.97	25.61	46.00	-20.39	AVG	
8		1.3695	6.20	9.82	16.02	46.00	-29.98	AVG	
9		2.1929	7.35	9.79	17.14	46.00	-28.86	AVG	
10		3.7950	5.80	9.78	15.58	46.00	-30.42	AVG	
11		11.2065	8.37	9.82	18.19	50.00	-31.81	AVG	
12		15.2160	8.03	9.93	17.96	50.00	-32.04	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

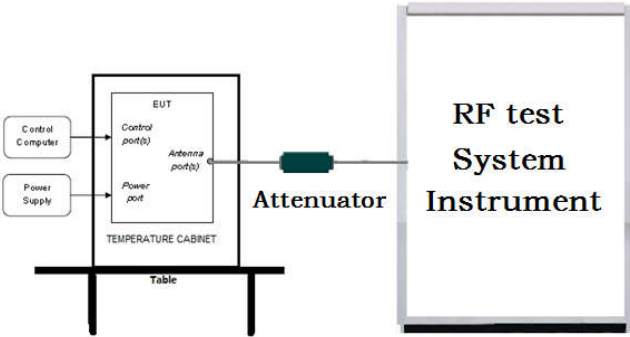


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.5190	30.97	9.97	40.94	56.00	-15.06	QP	
2		0.6765	25.24	9.92	35.16	56.00	-20.84	QP	
3		10.2435	22.11	9.79	31.90	60.00	-28.10	QP	
4		15.6795	22.27	9.94	32.21	60.00	-27.79	QP	
5		2.8500	18.51	9.79	28.30	56.00	-27.70	QP	
6		1.0590	23.20	9.83	33.03	56.00	-22.97	QP	
7		0.5055	19.30	9.96	29.26	46.00	-16.74	AVG	
8		0.6270	13.65	10.02	23.67	46.00	-22.33	AVG	
9		1.0320	11.47	9.83	21.30	46.00	-24.70	AVG	
10		2.8320	6.06	9.79	15.85	46.00	-30.15	AVG	
11		10.9409	10.60	9.81	20.41	50.00	-29.59	AVG	
12		15.6795	10.89	9.94	20.83	50.00	-29.17	AVG	

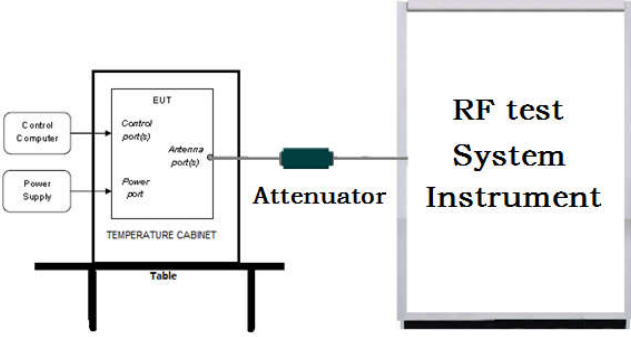
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

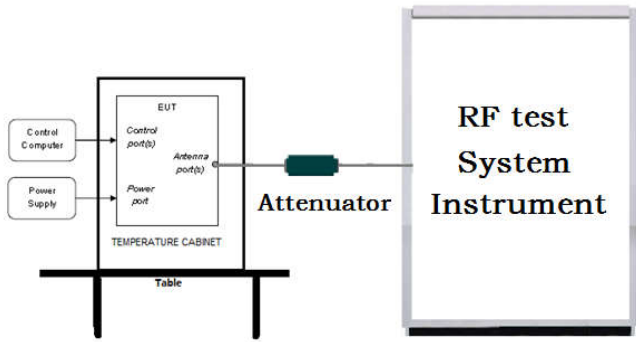
7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	<div></div> <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<div>a) Set the RBW \geq DTS bandwidth. b) Set VBW $\geq 3 \times$ RBW. c) Set span $\geq 3 \times$ RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.</div>
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

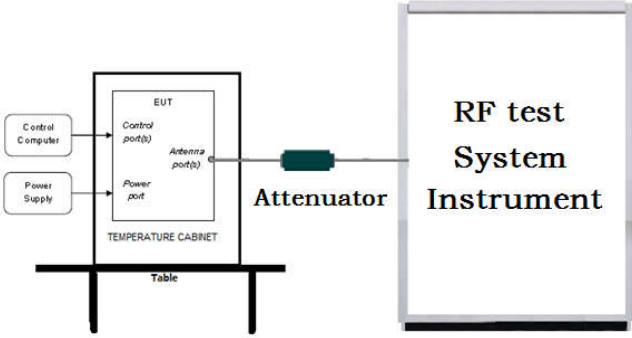
7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<p>a) Set RBW = 100 kHz.</p> <p>b) Set the VBW $\geq [3 \times \text{RBW}]$.</p> <p>c) Detector = peak.</p> <p>d) Trace mode = max hold.</p> <p>e) Sweep = auto couple.</p> <p>f) Allow the trace to stabilize.</p> <p>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</p>
Limit:	$\geq 500 \text{ kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

7.5 Maximum Power Spectral Density

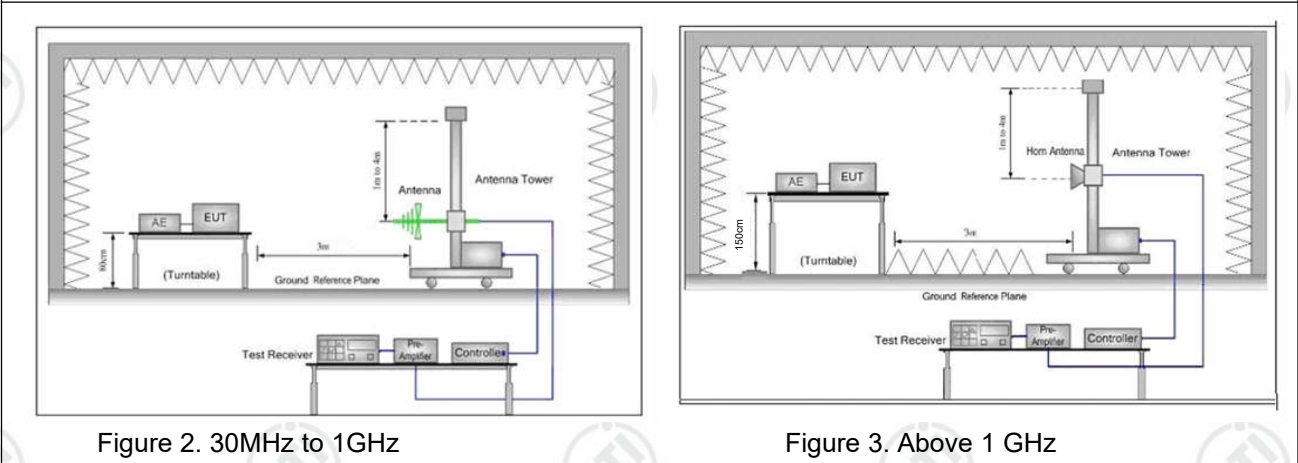
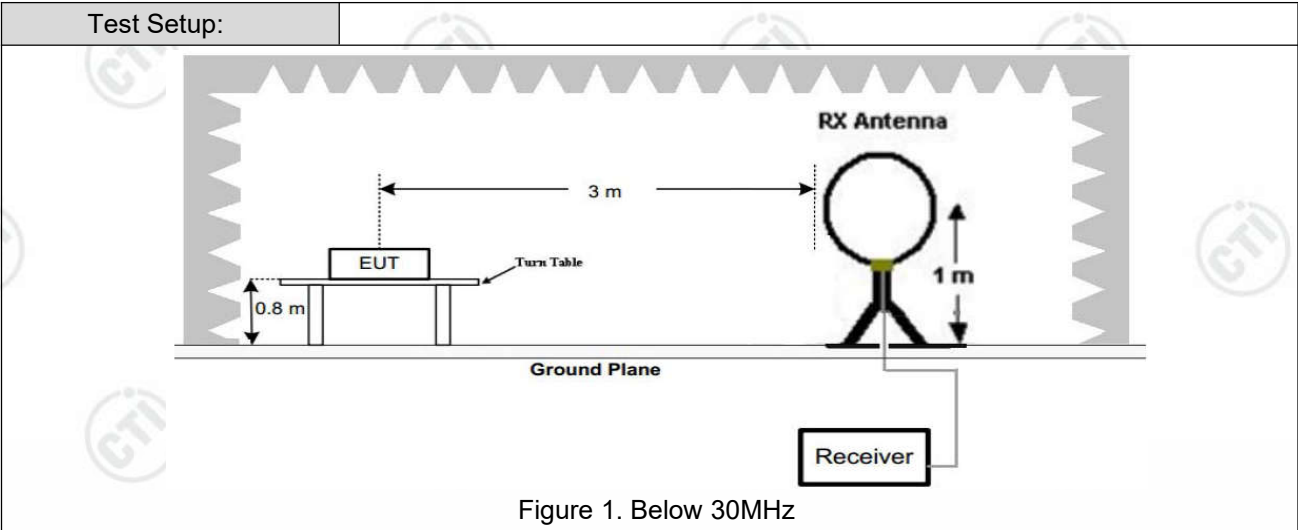
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<p>a) Set analyzer center frequency to DTS channel center frequency.</p> <p>b) Set the span to 1.5 times the DTS bandwidth.</p> <p>c) Set the RBW to $3\text{ kHz} < \text{RBW} < 100\text{ kHz}$.</p> <p>d) Set the VBW $> [3 \times \text{RBW}]$.</p> <p>e) Detector = RMS.</p> <p>f) Sweep time = auto couple.</p> <p>g) Trace mode = average.</p> <p>h) Allow trace to fully stabilize.</p> <p>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</p> <p>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</p>
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

7.6 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Test Procedure:	<ul style="list-style-type: none"> a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = RMS. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	<p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.</p>
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix DTS

7.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

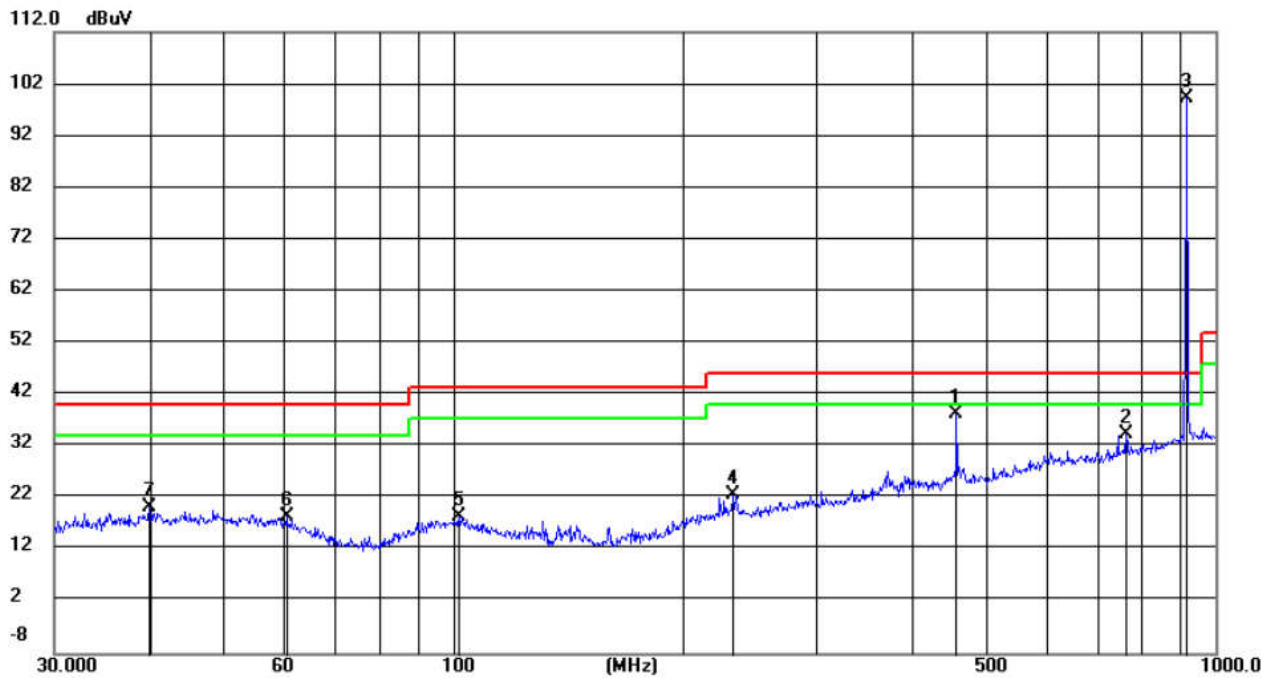


Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>Note: For the radiated emission test above 1GHz:</p> <p>Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. 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.</p> <p>d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p> <p>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the highest channel (2480MHz)</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Mode:	Refer to clause 5.3
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

Horizontal:

Test Graph



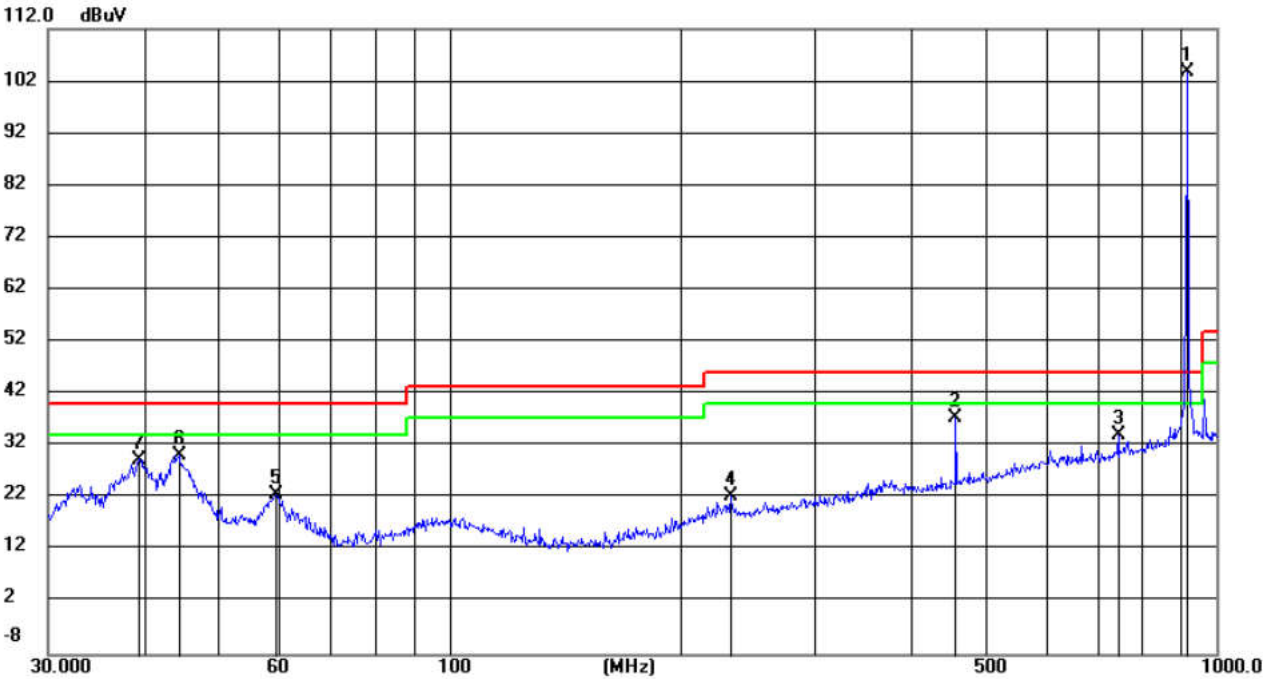
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		457.5073	17.60	20.63	38.23	46.00	-7.77	peak	100	226
2		763.3757	8.68	25.78	34.46	46.00	-11.54	peak	200	39
3	*	916.0686	70.89	28.49	99.38	46.00	53.38	peak	100	237
4		233.3486	7.81	14.93	22.74	46.00	-23.26	peak	200	356
5		101.6443	4.60	13.81	18.41	43.50	-25.09	peak	200	356
6		60.4918	5.08	13.39	18.47	40.00	-21.53	peak	200	244
7		39.9942	5.87	14.53	20.40	40.00	-19.60	peak	200	356

Remark:

- 1.Margin=Measurement-Limit;
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data of NO. 3 point is fundamental wave.

Vertical:

Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	916.0686	75.21	28.49	103.70	46.00	57.70	peak	100	80
2		457.5073	16.93	20.63	37.56	46.00	-8.44	peak	100	356
3		744.8660	8.71	25.48	34.19	46.00	-11.81	peak	100	356
4		232.5318	7.59	14.91	22.50	46.00	-23.50	peak	100	356
5		59.4405	9.10	13.60	22.70	40.00	-17.30	peak	100	177
6		44.4307	15.91	14.41	30.32	40.00	-9.68	peak	100	356
7		39.4371	15.07	14.43	29.50	40.00	-10.50	peak	100	15

Remark:

- 1.Margin=Measurement-Limit;
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data of NO. 1 point is fundamental wave.

Radiated Spurious Emission above 1GHz:

Mode:			Single RF sources			Channel:		914.88 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1011.2007	-25.40	63.74	38.34	74.00	35.66	Pass	H	PK
2	1829.7887	-24.54	60.38	35.84	74.00	38.16	Pass	H	PK
3	2745.4497	-22.09	70.60	48.51	74.00	25.49	Pass	H	PK
4	3312.0208	-20.43	59.98	39.55	74.00	34.45	Pass	H	PK
5	6403.4269	-12.89	59.43	46.54	74.00	27.46	Pass	H	PK
6	10065.1377	-7.23	57.16	49.93	74.00	24.07	Pass	H	PK
7	1125.075	-26.75	60.64	33.89	74.00	40.11	Pass	V	PK
8	2745.4497	-22.09	72.87	50.78	74.00	23.22	Pass	V	PK
9	3312.0208	-20.43	61.17	40.74	74.00	33.26	Pass	V	PK
10	4573.9716	-16.88	61.07	44.19	74.00	29.81	Pass	V	PK
11	6405.2937	-12.89	62.72	49.83	74.00	24.17	Pass	V	PK
12	8232.8822	-11.05	56.23	45.18	74.00	28.82	Pass	V	PK

Mode:			Multiple RF sources			Channel:		914.88 MHz+2.4G WiFi+IOT module	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1372.8373	1.30	40.29	41.59	74.00	32.41	Pass	H	PK
2	1829.683	3.51	45.15	48.66	74.00	25.34	Pass	H	PK
3	2794.1794	5.72	44.16	49.88	74.00	24.12	Pass	H	PK
4	4824.1216	-16.22	65.30	49.08	74.00	24.92	Pass	H	PK
5	6406.2271	-12.85	60.04	47.19	74.00	26.81	Pass	H	PK
6	10066.4711	-7.08	58.08	51.00	74.00	23.00	Pass	H	PK
7	1226.8227	0.87	39.22	40.09	74.00	33.91	Pass	V	PK
8	1879.2879	3.87	48.24	52.11	74.00	21.89	Pass	V	PK
9	2744.3744	5.55	45.07	50.62	74.00	23.38	Pass	V	PK
10	4824.1216	-16.22	68.33	52.11	74.00	21.89	Pass	V	PK
11	6406.2271	-12.85	63.98	51.13	74.00	22.87	Pass	V	PK
12	8236.3491	-10.98	59.71	48.73	74.00	25.27	Pass	V	PK

Remark:

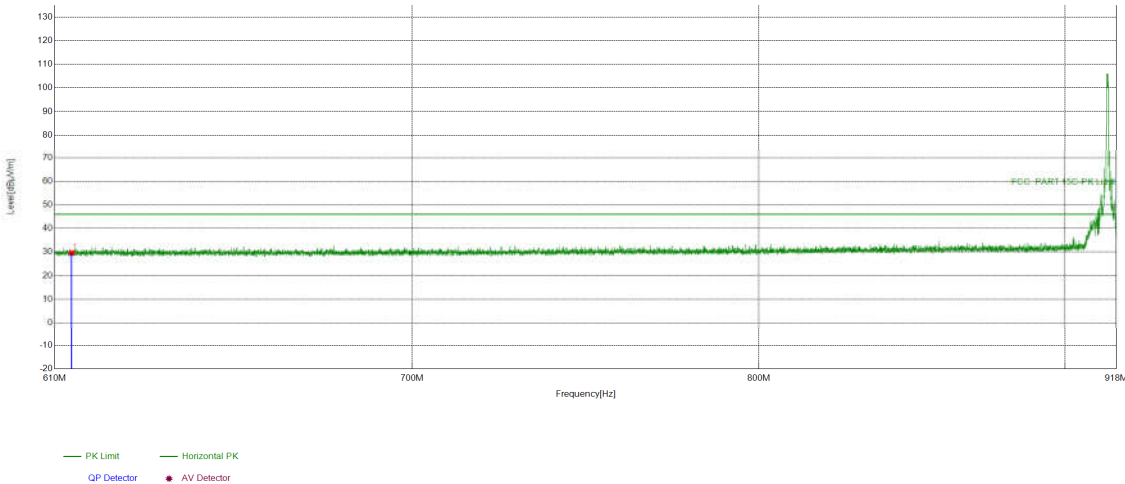
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

Restricted bands:

Test plot as follows:

Test_Mode		Test_Frequency	914.88 MHz
Remark			

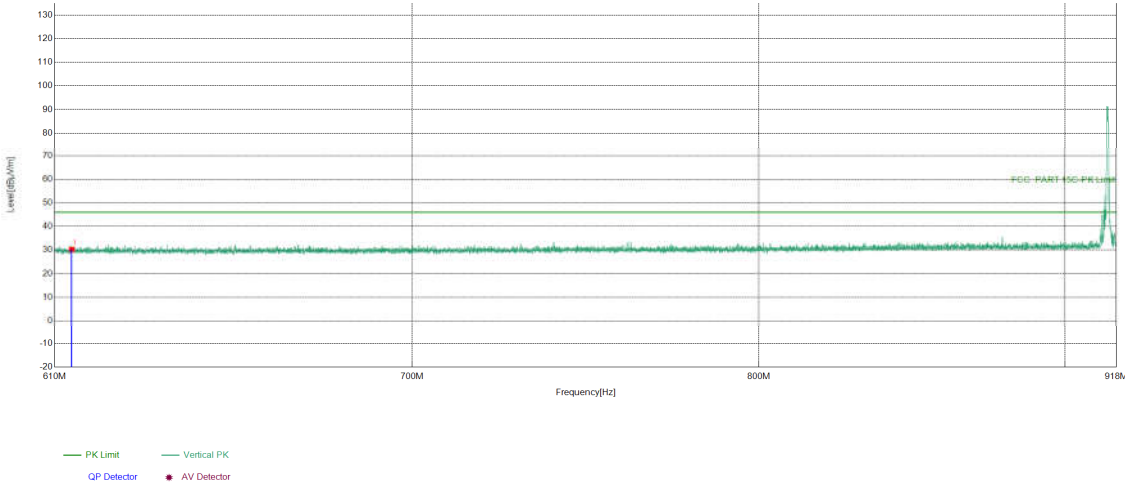
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	614	-8.49	38.10	29.61	46.00	16.39	PASS	Horizontal	PK

Test_Mode		Test_Frequency	914.88 MHz
Remark			

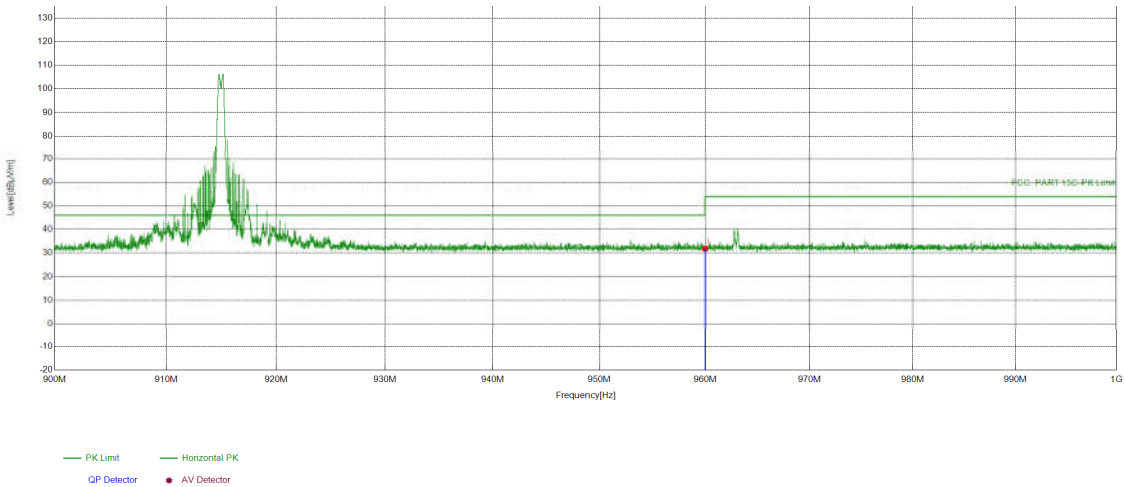
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	614	-8.49	38.76	30.27	46.00	15.73	PASS	Vertical	PK

Test_Mode		Test_Frequency	914.88 MHz
Remark			

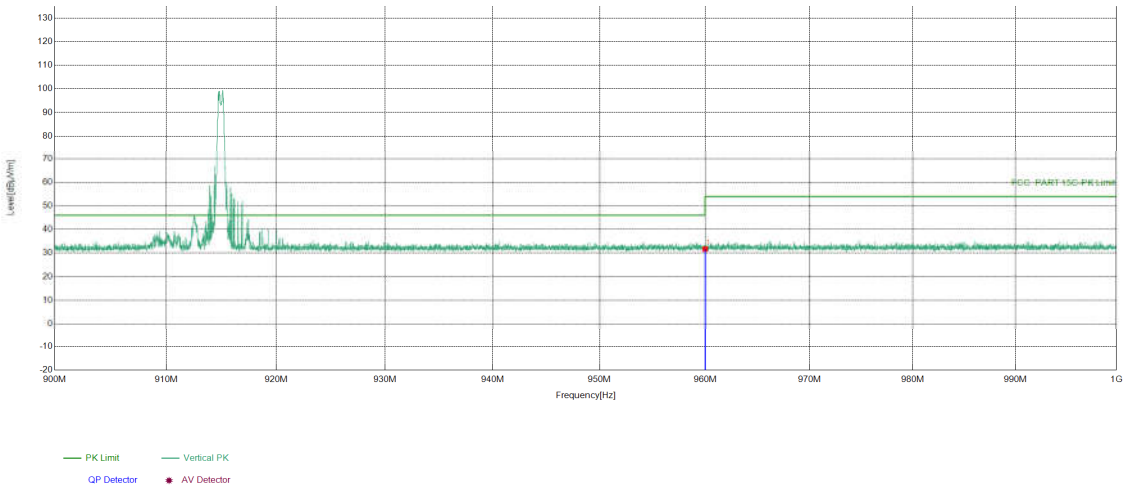
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	960	-4.37	36.28	31.91	54.00	22.09	PASS	Horizontal	PK

Test_Mode		Test_Frequency	914.88 MHz
Remark			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	960	-4.37	36.07	31.70	54.00	22.30	PASS	Vertical	PK

Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading -Correct Factor
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

8 Appendix :DTS

Refer to Appendix: DTS of EED32P80467601