

TEST REPORT

Product : Connect Control Panel 3G
Trade mark : Rentokil Initial
Model/Type reference : 304768
Serial Number : N/A
Report Number : EED32M00298001
Date of Issue : Nov. 20, 2020
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Rentokil Initial 1927 Plc
Riverbank, Meadows Business Park, Camberley,
GU17 9AB, United Kingdom

Prepared by:

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Date:

Nov. 20, 2020

Check No.:2447639718



2 Version

Version No.	Date	Description
00	Nov. 20, 2020	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Conducted Peak Output Power	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	Note 1
6dB Occupied Bandwidth	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	Note 1
Power Spectral Density	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013	Note 1
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	Note 1
RF Conducted Spurious Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	Note 1
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	Note 1

Remark:

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

Note 1: The Rola module has been certified with FCC ID, refer to FCC ID: 2AK3PGSD-500349 report.

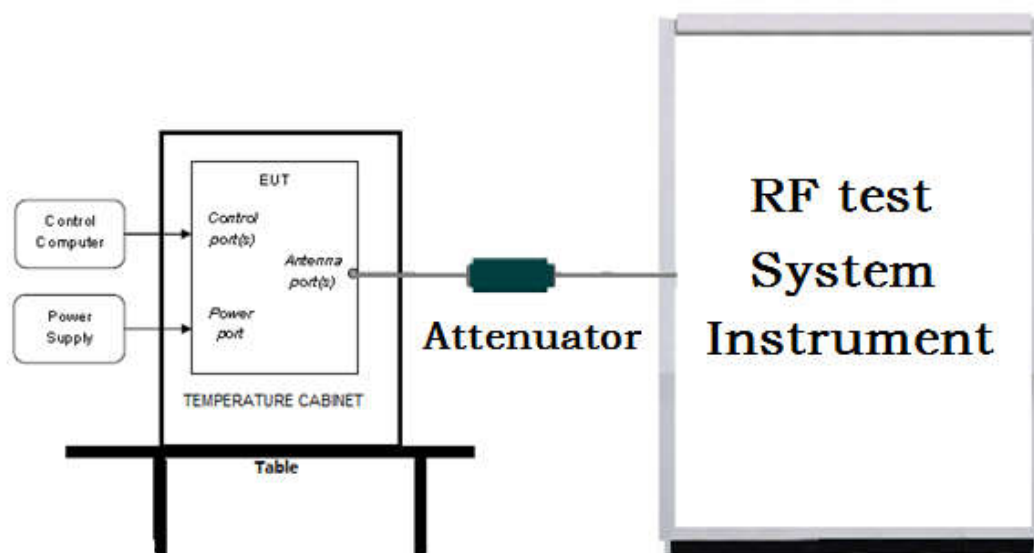
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

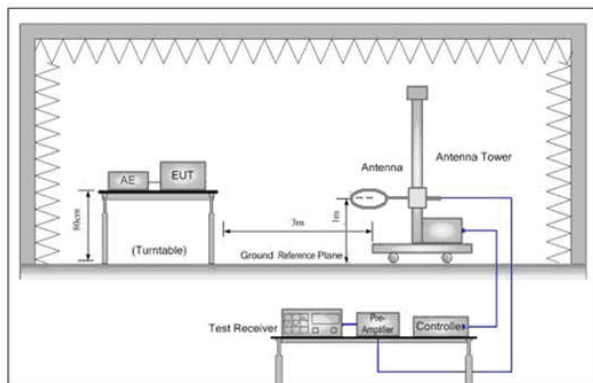


Figure 1. Below 30MHz

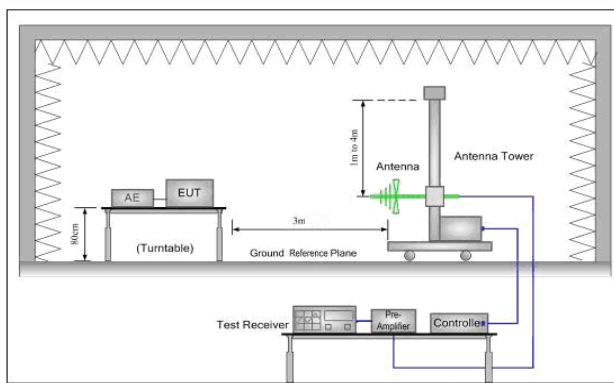


Figure 2. 30MHz to 1GHz

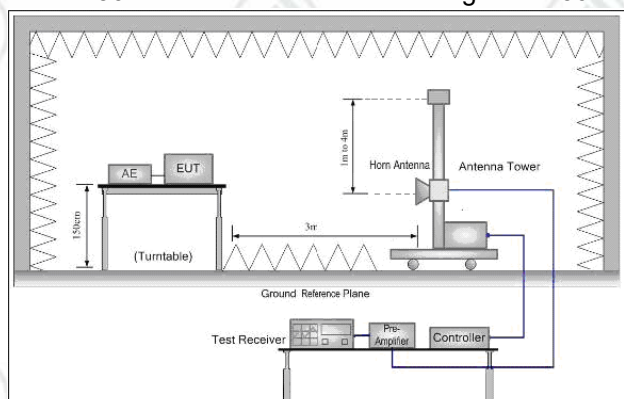
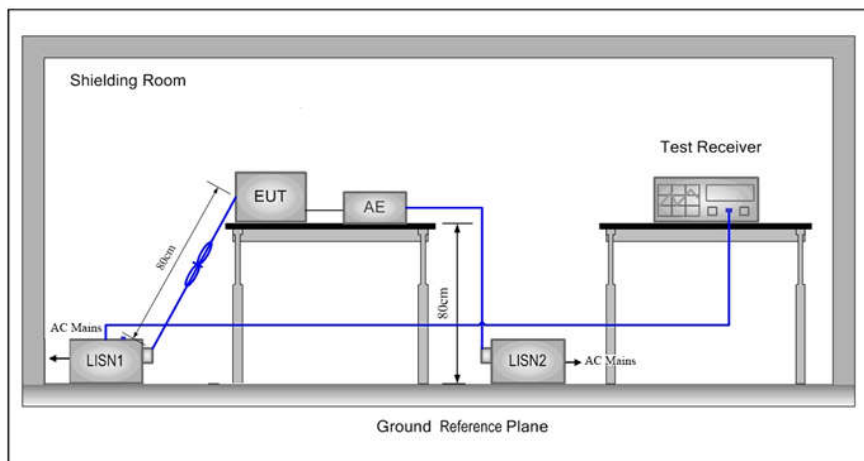


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

6 General Information

6.1 Client Information

Applicant:	Rentokil Initial 1927 Plc
Address of Applicant:	Riverbank, Meadows Business Park, Camberley, GU17 9AB, United Kingdom
Manufacturer:	Rentokil Initial 1927 Plc
Address of Manufacturer:	Riverbank, Meadows Business Park, Camberley, GU17 9AB, United Kingdom

6.2 General Description of EUT

Product Name:	Connect Control Panel 3G
Model No. (EUT):	304768
Add Model No.:	N/A
Trade Mark:	Rentokil Initial
Frequency Band:	915.25~927.5MHz
Modulation Type:	FSK
Sample Type:	Mobile Product
Antenna Type:	PCB antenna
Antenna gain:	6dBi (Antennas used by all three products covered by this report were < 6 dBi gain, 6 dBi was used as a worst case to cover all products.)
Power Supply:	Adapter: Model: DYS812-050210W-K Input: 100-240V 50/60Hz 0.35A max. Output: DC5V, 2.1A
Test Voltage:	120V 60Hz
Sample Received Date:	Sep. 18, 2020
Sample tested Date:	Sep. 18, 2020 to Nov. 13, 2020

6.3 Description of Support Units

The EUT has been tested independently

6.4 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

6.5 Abnormalities from Standard Conditions

None.

6.6 Other Information Requested by the Customer

None.

6.7 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-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
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%

7 Equipment List

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2020	05-15-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI	100009	04-28-2020	04-27-2021
Multi device Controller	matur	NCD/070/107 11112	---	---	---
Temperature/Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
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	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
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	---	---

8 Radiated Spurious Emissions

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	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

Test Procedure:

Below 1GHz test procedure as below:

Test method Refer as KDB 558074 D01, Section 12.1

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBμV/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

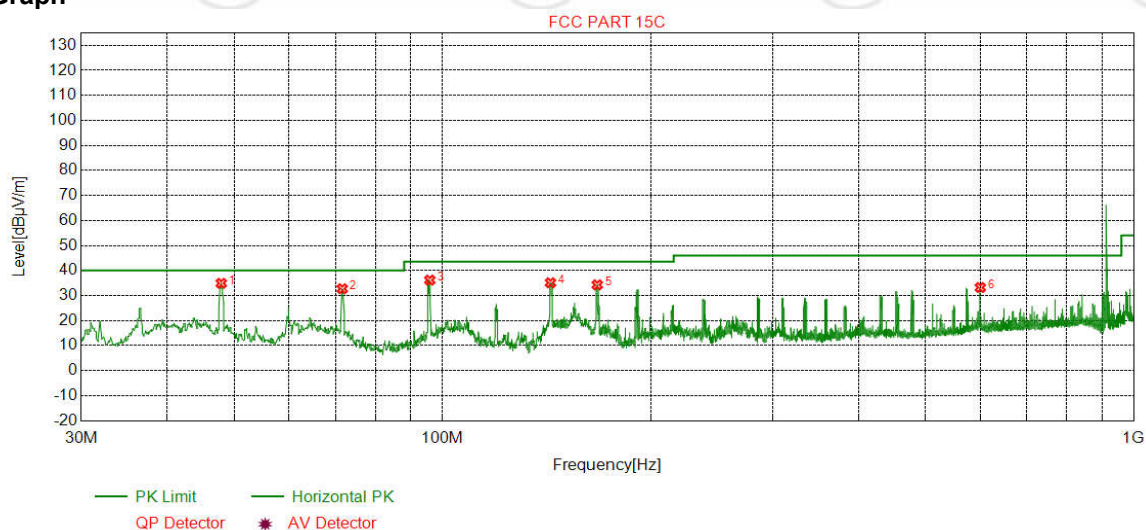
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

Mode:	FSK Transmitting	Channel:	915.25MHz
Remark:	PK		

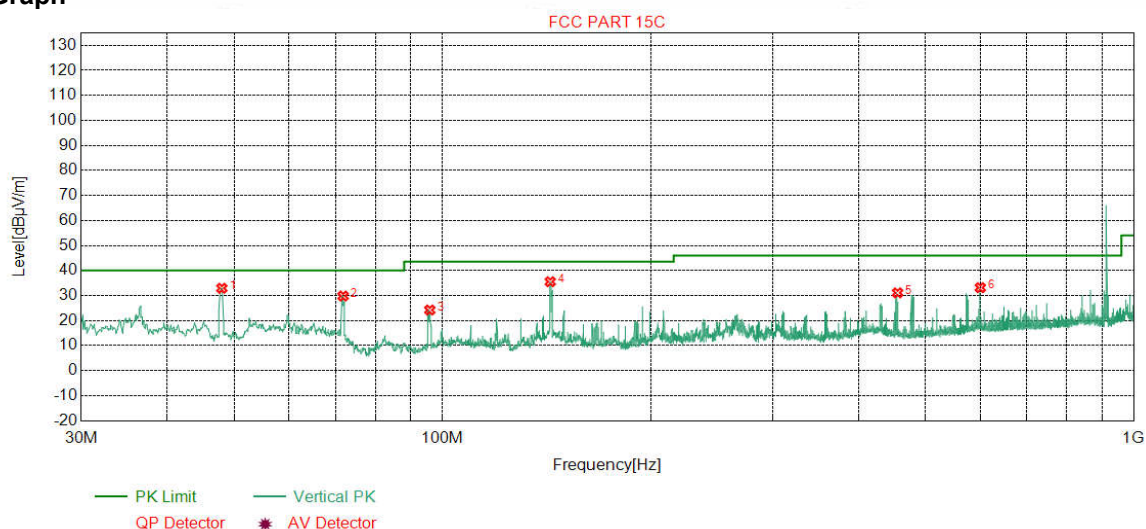
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.8498	13.20	0.78	-31.95	52.87	34.90	40.00	5.10	Pass	Horizontal
2	71.6172	8.69	0.97	-32.02	55.08	32.72	40.00	7.28	Pass	Horizontal
3	95.8696	10.34	1.13	-31.98	56.68	36.17	43.50	7.33	Pass	Horizontal
4	143.3073	7.32	1.41	-32.00	58.37	35.10	43.50	8.40	Pass	Horizontal
5	167.4627	8.31	1.51	-31.96	56.42	34.28	43.50	9.22	Pass	Horizontal
6	600.0290	19.00	2.96	-31.50	42.75	33.21	46.00	12.79	Pass	Horizontal

Mode:	FSK Transmitting	Channel:	915.25MHz
Remark:	PK		

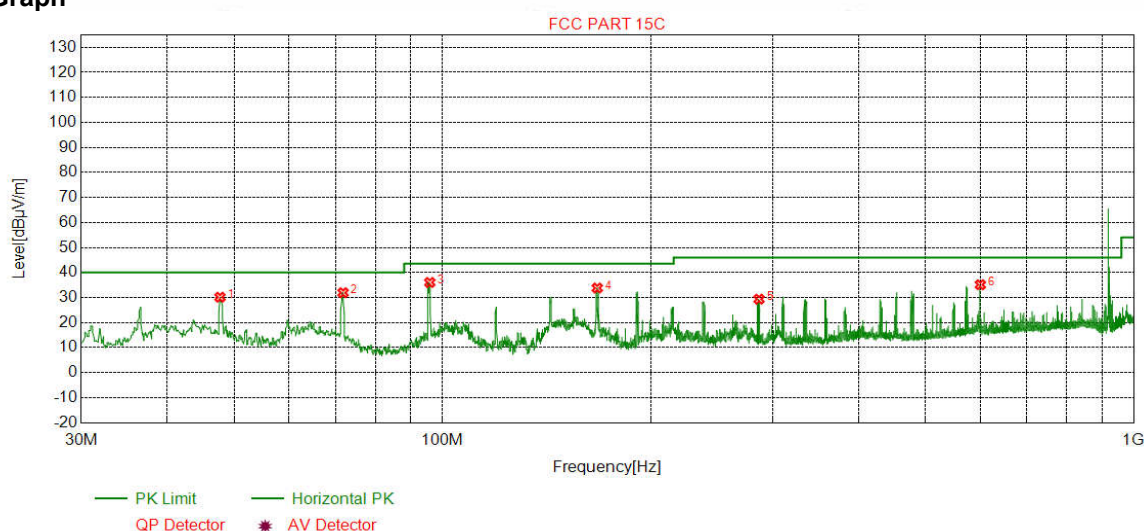
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.9468	13.20	0.78	-31.95	50.89	32.92	40.00	7.08	Pass	Vertical
2	71.8112	8.66	0.97	-32.03	52.21	29.81	40.00	10.19	Pass	Vertical
3	95.8696	10.34	1.13	-31.98	44.73	24.22	43.50	19.28	Pass	Vertical
4	143.2103	7.31	1.41	-31.99	58.80	35.53	43.50	7.97	Pass	Vertical
5	455.4845	16.29	2.54	-31.86	44.12	31.09	46.00	14.91	Pass	Vertical
6	600.0290	19.00	2.96	-31.50	42.69	33.15	46.00	12.85	Pass	Vertical

Mode:	FSK Transmitting	Channel:	921MHz
Remark:	PK		

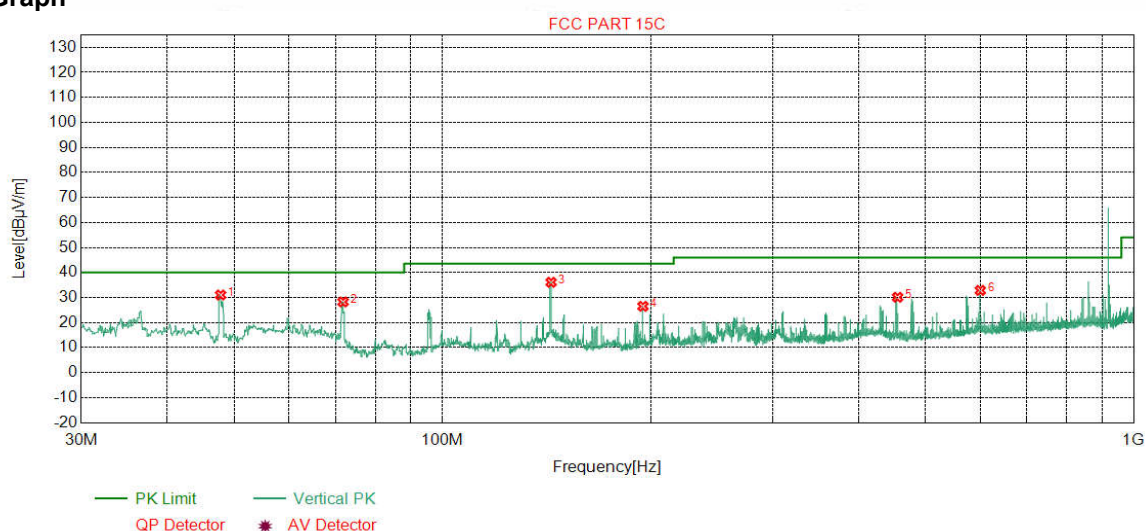
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.6558	13.20	0.78	-31.93	48.09	30.14	40.00	9.86	Pass	Horizontal
2	71.8112	8.66	0.97	-32.03	54.34	31.94	40.00	8.06	Pass	Horizontal
3	95.8696	10.34	1.13	-31.98	56.54	36.03	43.50	7.47	Pass	Horizontal
4	167.4627	8.31	1.51	-31.96	55.95	33.81	43.50	9.69	Pass	Horizontal
5	287.0757	12.94	2.02	-31.89	46.29	29.36	46.00	16.64	Pass	Horizontal
6	600.0290	19.00	2.96	-31.50	44.66	35.12	46.00	10.88	Pass	Horizontal

Mode:	FSK Transmitting	Channel:	921MHz
Remark:	PK		

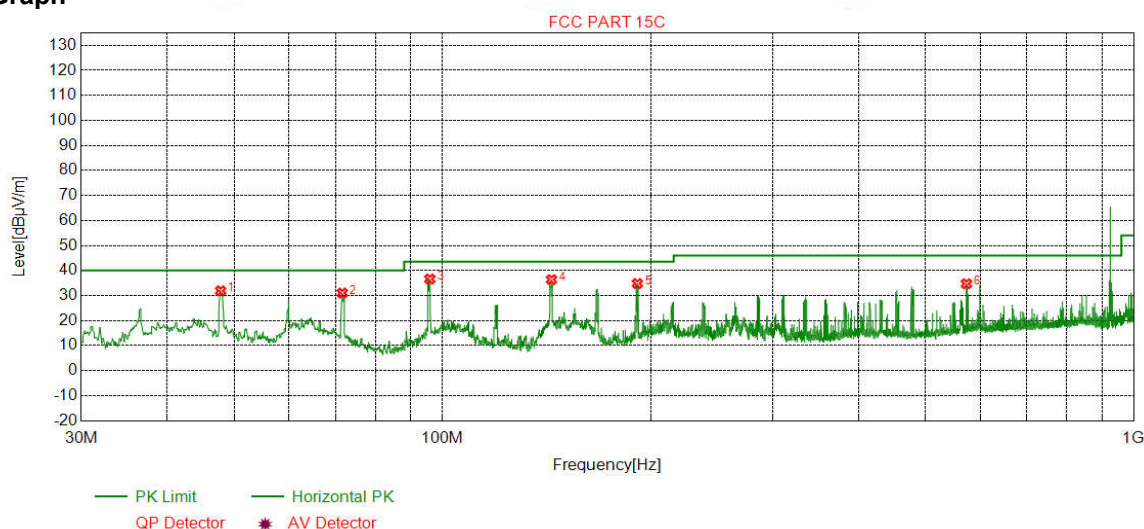
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.7528	13.20	0.78	-31.94	48.97	31.01	40.00	8.99	Pass	Vertical
2	71.8112	8.66	0.97	-32.03	50.65	28.25	40.00	11.75	Pass	Vertical
3	143.5984	7.33	1.41	-32.00	59.37	36.11	43.50	7.39	Pass	Vertical
4	195.0135	10.43	1.64	-31.94	46.37	26.50	43.50	17.00	Pass	Vertical
5	455.4845	16.29	2.54	-31.86	43.14	30.11	46.00	15.89	Pass	Vertical
6	600.0290	19.00	2.96	-31.50	42.40	32.86	46.00	13.14	Pass	Vertical

Mode:	FSK Transmitting	Channel:	927.5MHz
Remark:	PK		

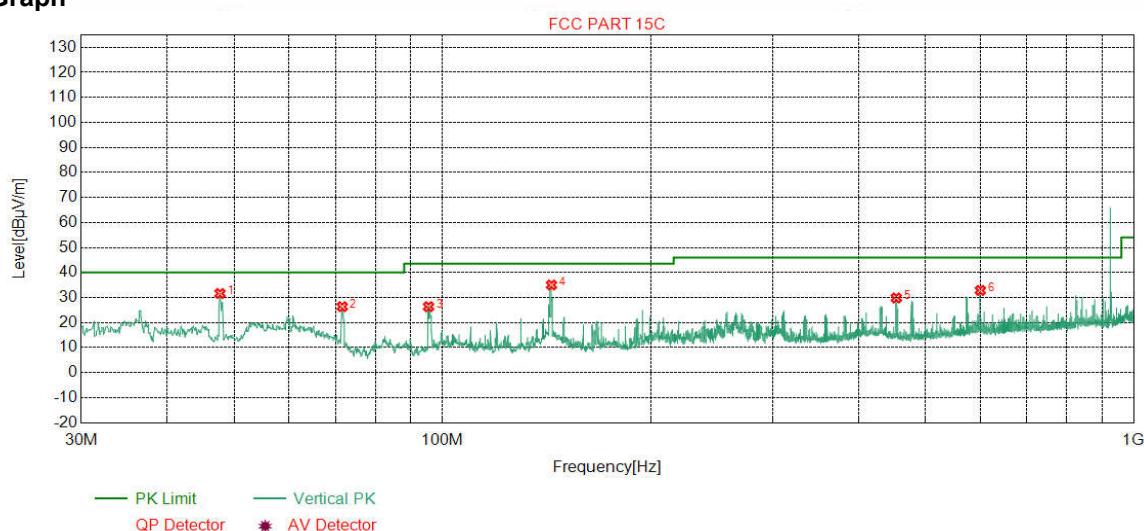
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.7528	13.20	0.78	-31.94	49.86	31.90	40.00	8.10	Pass	Horizontal
2	71.6172	8.69	0.97	-32.02	53.36	31.00	40.00	9.00	Pass	Horizontal
3	95.8696	10.34	1.13	-31.98	57.12	36.61	43.50	6.89	Pass	Horizontal
4	143.7924	7.33	1.41	-31.99	59.63	36.38	43.50	7.12	Pass	Horizontal
5	191.4241	10.09	1.62	-31.97	55.07	34.81	43.50	8.69	Pass	Horizontal
6	572.8663	18.46	2.83	-32.02	45.45	34.72	46.00	11.28	Pass	Horizontal

Mode:	FSK Transmitting	Channel:	927.5MHz
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	47.6558	13.20	0.78	-31.93	49.57	31.62	40.00	8.38	Pass	Vertical
2	71.6172	8.69	0.97	-32.02	48.71	26.35	40.00	13.65	Pass	Vertical
3	95.4815	10.28	1.12	-31.98	46.94	26.36	43.50	17.14	Pass	Vertical
4	143.7924	7.33	1.41	-31.99	58.27	35.02	43.50	8.48	Pass	Vertical
5	453.5444	16.26	2.53	-31.87	42.91	29.83	46.00	16.17	Pass	Vertical
6	600.0290	19.00	2.96	-31.50	42.39	32.85	46.00	13.15	Pass	Vertical

Transmitter Emission above 1GHz

Mode:	FSK Transmitting	Channel:	915.25MHz
Remark:			

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1830.7831	30.58	3.07	-42.79	51.12	41.98	74.00	32.02	Pass	Horizontal	Peak
2	2746.1746	32.79	3.66	-43.10	51.97	45.32	74.00	28.68	Pass	Horizontal	Peak
3	3660.6661	33.53	3.99	-43.07	52.33	46.78	74.00	27.22	Pass	Horizontal	Peak
4	5491.4491	34.99	5.08	-42.60	52.94	50.41	74.00	23.59	Pass	Horizontal	Peak
5	6943.2943	36.08	5.77	-42.24	50.50	50.11	74.00	23.89	Pass	Horizontal	Peak
6	9153.0153	37.67	6.44	-42.03	53.12	55.20	74.00	18.80	Pass	Horizontal	Peak
1	9152.5253	37.67	6.44	-42.03	46.35	48.43	54.00	5.57	Pass	Horizontal	Average

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1980.1980	31.57	3.12	-43.15	52.04	43.58	74.00	30.42	Pass	Vertical	Peak
2	2746.1746	32.79	3.66	-43.10	51.58	44.93	74.00	29.07	Pass	Vertical	Peak
3	3842.4842	33.67	4.23	-43.03	50.44	45.31	74.00	28.69	Pass	Vertical	Peak
4	5490.5491	34.99	5.08	-42.60	56.39	53.86	74.00	20.14	Pass	Vertical	Peak
5	7360.9361	36.46	5.96	-42.12	49.45	49.75	74.00	24.25	Pass	Vertical	Peak
6	9152.1152	37.67	6.44	-42.03	53.79	55.87	74.00	18.13	Pass	Vertical	Peak
1	9152.4042	37.67	6.44	-42.03	46.53	48.61	54.00	5.39	Pass	Vertical	Average

Mode:	FSK Transmitting	Channel:	921MHz
Remark:			

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1879.3879	30.90	3.06	-42.90	51.22	42.28	74.00	31.72	Pass	Horizontal	Peak
2	2552.6553	32.48	3.49	-43.09	50.82	43.70	74.00	30.30	Pass	Horizontal	Peak
3	3684.0684	33.55	3.98	-43.07	52.20	46.66	74.00	27.34	Pass	Horizontal	Peak
4	5525.6526	35.04	4.99	-42.60	51.86	49.29	74.00	24.71	Pass	Horizontal	Peak
5	7880.2880	36.45	6.16	-42.18	49.86	50.29	74.00	23.71	Pass	Horizontal	Peak
6	9209.7210	37.66	6.43	-42.04	51.20	53.25	74.00	20.75	Pass	Horizontal	Peak

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1841.5842	30.65	3.08	-42.80	51.78	42.71	74.00	31.29	Pass	Vertical	Peak
2	2101.7102	31.84	3.40	-43.17	52.06	44.13	74.00	29.87	Pass	Vertical	Peak
3	3684.0684	33.55	3.98	-43.07	52.21	46.67	74.00	27.33	Pass	Vertical	Peak
4	5525.6526	35.04	4.99	-42.60	56.34	53.77	74.00	20.23	Pass	Vertical	Peak
5	7659.7660	36.54	5.99	-42.14	50.15	50.54	74.00	23.46	Pass	Vertical	Peak
6	9210.6211	37.66	6.43	-42.04	51.81	53.86	74.00	20.14	Pass	Vertical	Peak

Mode:	FSK Transmitting	Channel:	927.5MHz
Remark:			

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1549.0549	28.72	3.16	-43.00	51.25	40.13	74.00	33.87	Pass	Horizontal	Peak
2	2175.5176	31.95	3.28	-43.17	50.65	42.71	74.00	31.29	Pass	Horizontal	Peak
3	2813.6814	32.90	3.67	-43.10	50.28	43.75	74.00	30.25	Pass	Horizontal	Peak
4	3710.1710	33.57	4.00	-43.06	51.54	46.05	74.00	27.95	Pass	Horizontal	Peak
5	5565.2565	35.10	4.91	-42.60	55.00	52.41	74.00	21.59	Pass	Horizontal	Peak
6	9274.5275	37.65	6.52	-42.06	53.15	55.26	74.00	18.74	Pass	Horizontal	Peak
1	9274.8825	37.65	6.52	-42.05	46.03	48.15	54.00	5.85	Pass	Horizontal	Average

Suspected List

NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2064.8065	31.79	3.30	-43.18	50.22	42.13	74.00	31.87	Pass	Vertical	Peak
2	3198.9199	33.28	3.86	-43.10	52.07	46.11	74.00	27.89	Pass	Vertical	Peak
3	3710.1710	33.57	4.00	-43.06	51.42	45.93	74.00	28.07	Pass	Vertical	Peak
4	5565.2565	35.10	4.91	-42.60	58.35	55.76	74.00	18.24	Pass	Vertical	Peak
5	7414.9415	36.51	5.90	-42.11	49.63	49.93	74.00	24.07	Pass	Vertical	Peak
6	9275.4275	37.64	6.52	-42.05	52.54	54.65	74.00	19.35	Pass	Vertical	Peak
1	5564.9335	35.10	4.91	-42.60	54.13	51.54	54.00	2.46	Pass	Vertical	Average
2	9274.9425	37.65	6.52	-42.05	44.95	47.07	54.00	6.93	Pass	Vertical	Average