

CFR 47 FCC PART 15 SUBPART C ISED RSS-210 ISSUE 10

TEST REPORT

For

TOY Transmitter

MODEL NUMBER: GF31HTNRR1

FCC ID: G6DGF31HTNRR1

IC: 9650A-GF31HTNRR1

REPORT NUMBER: 4789427740

ISSUE DATE: Jun 15, 2020

Prepared for

NEW BRIGHT INDUSTRIAL CO., LTD 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.

Prepared by

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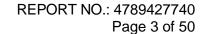
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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/15/2020	Initial Issue	





Summary of Test Results				
Clause	Test Items	FCC/ISED Rules	Test Results	
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c) ISED RSS-Gen Clause 6.7	Pass	
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass	
3	Antenna Requirement	CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.3	Pass	

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 Issue 10 and ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

Address: 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KOWLOON, HONG KONG.

Manufacturer Information

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

Address: 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KOWLOON, HONG KONG.

EUT Information

EUT Name: TOY Transmitter
Model: GF31HTNRR1
Sample Received Date: March 25, 2020

Sample Status: Normal

Date of Tested: March 26, 2020~ Jun 15, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS
ISED RSS-210 Issue 10	PASS
ISED RSS-GEN Issue 5	PASS

Prepared By:	Checked By:
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Sephenbus

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 Issue 10 and RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject to
	the Commission's Declaration of Conformity (DoC) and Certification rules.
	, , ,
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED. The
	Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011
	Silielaing Room B, the VCCi registration No. is C-20012 and 1-20011

Note:

- 1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	2.2dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test	5.78dB (1GHz-18GHz)
(1GHz to 26GHz) (include Fundamental emission)	5.23dB (18GHz-26GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	TOY Transmitter		
EUT Description	The EUT is a wireless remote controller.		
Model	GF31HTNRR1		
Draduat Description	Operation Frequency	2410 MHz ~ 2475 MHz	
Product Description	Modulation Type GFSK		
Battery	DC 3.0V		

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max Peak field strength (dBµV/m)
2410	1[66]	95.81

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	18	2427	35	2444	52	2461
2	2411	19	2428	36	2445	53	2462
3	2412	20	2429	37	2446	54	2463
4	2413	21	2430	38	2447	55	2464
5	2414	22	2431	39	2448	56	2465
6	2415	23	2432	40	2449	57	2466
7	2416	24	2433	41	2450	58	2467
8	2417	25	2434	42	2451	59	2468
9	2418	26	2435	43	2452	60	2469
10	2419	27	2436	44	2453	61	2470
11	2420	28	2437	45	2454	62	2471
12	2421	29	2438	46	2455	63	2472
13	2422	30	2439	47	2456	64	2473
14	2423	31	2440	48	2457	65	2474
15	2424	32	2441	49	2458	66	2475
16	2425	33	2442	50	2459	67	/
17	2426	34	2443	51	2460	68	/



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5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2410 ~ 2475	Wire Antenna	0

Test Mode	Transmit and Receive Mode	Description
GFSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 34(MID Channel), CH 66(High Channel)	2410MHz, 2443MHz, 2475MHz

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2410 MHz ~ 2475 MHz Band					
Test Soft	ware Version		/		
Modulation Type	Transmit Antenna	Test Channel			
Number		CH 1	CH 34	CH 66	
GFSK	1	Default	Default	Default	

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Va	lues During Tests
Relative Humidity	55	5 ~ 65%
Atmospheric Pressure:	1	025Pa
Temperature	TN	22 ~ 28°C
	VL	/
Voltage:	VN	DC 3.0V
	VH	/

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature



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5.8. DESCRIPTION OF TEST SETUP

J.O. DESCRIPTION OF TEST SETUP				
SUPPORT EQUIPMENT				
No support equipment.				
I/O CABLES				
No I/O cables.				
ACCESSORY				
No accessory.				
TEST SETUP				
The EUT have an engineer mode inside.				
SETUP DIAGRAM FOR TEST				
EUT				

Note: New battery was used during all tests.



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

	Radiated Emissions							
	Instrument							
Used	Equipment	Manufacturer	Model No.		Seria	al No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N9	9038A	MY564	400036	Dec. 6, 2019	Dec. 6, 2020
V	Hybrid Log Periodic Antenna	TDK	HLF	P-3003C	130	959	Sept.17, 2018	Sept.17,2021
\checkmark	Preamplifier	HP	8	447D	2944A	09099	Dec. 5, 2019	Dec. 5, 2020
V	EMI Measurement Receiver	R&S	Е	SR26	101	377	Dec. 05, 2019	Dec.05, 2020
V	Horn Antenna	TDK	HR	N-0118	130	939	Sept. 17, 2018	Sept.17,2021
V	Preamplifier	TDK	PA-	02-0118		-305- 067	Dec. 05, 2019	Dec.05, 2020
V	Loop antenna	Schwarzbeck	1	519B	000	800	Jan.17, 2019	Jan.17, 2022
V	Preamplifier	TDK		PA-02-001- 3000		-302- 050	Dec. 05, 2019	Dec.05, 2020
V	High Gain Horn Antenna	Schwarzbeck	BBH	IA-9170	69	91	Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	P/	\- 02-2	_	-307- 003	Dec. 05, 2019	Dec.05, 2020
				Software				
Used	Descr			Manufa	cturer		Name	Version
V	Test Software distur		E3130 E7.ENV.		EZ-EMC	Ver. UL-3A1		
				r instrum	ents			
Used	Equipment	Manufacturer		del No.	Seria	al No.	Last Cal.	Next Cal.
\checkmark	High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS		2	23	Dec. 05, 2019	Dec.05, 2020
V	Band Reject Filter	Wainwright	235 24	RCJV8- 0-2400- 483.5- 3.5-40SS	4	4	Dec. 05, 2019	Dec.05, 2020



6. ANTENNA PORT TEST RESULTS
6.1. ON TIME AND DUTY CYCLE

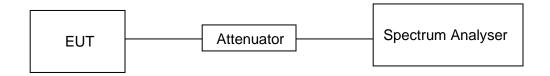
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

RESULTS

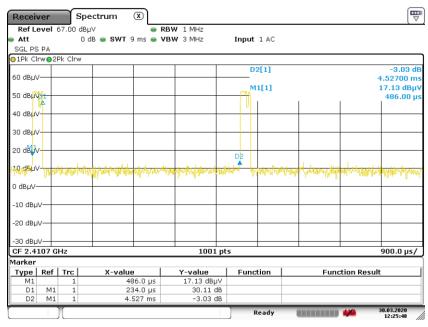
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	5.148	100	0.05148	5.148	-25.77

Note: Duty Cycle Correction Factor=20log(x).

Where: x is Duty Cycle

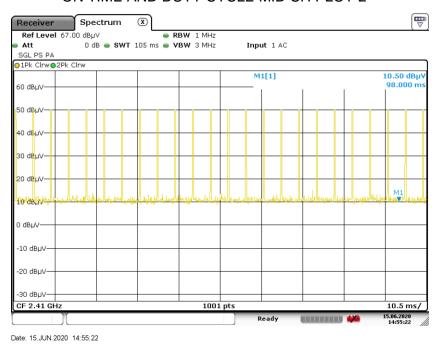


ON TIME AND DUTY CYCLE MID CH PLOT



Date: 30.MAR.2020 12:25:48

ON TIME AND DUTY CYCLE MID CH PLOT-2



Note: All the modes had been tested, but only the worst duty cycle recorded in the report.



6.2. 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5						
Section	Test Item	Limit	Frequency Range (MHz)			
CFR 47 FCC §15.215 (c) 20dB Bandwidth		for reporting purposes only	2400-2483.5			
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5			

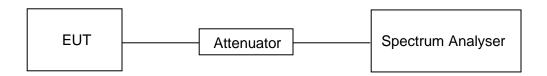
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3xRBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

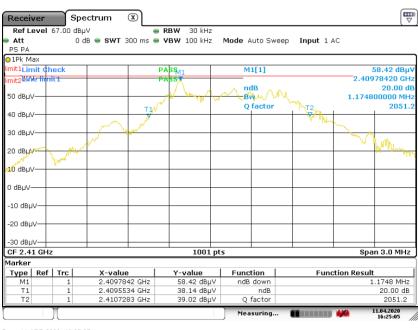
Temperature	22.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V



RESULTS

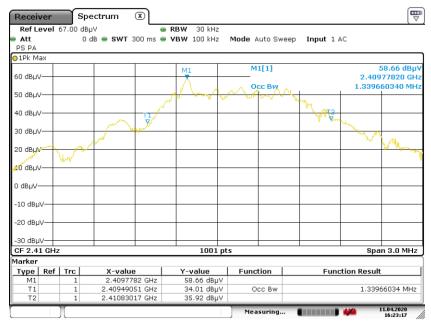
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2410	1.1748	1.3397	PASS

20 dB BANDWIDTH LOW CH

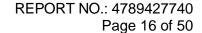


Date: 11.APR.2020 16:25:05

99% OCCUPIED BANDWIDTH LOW CH

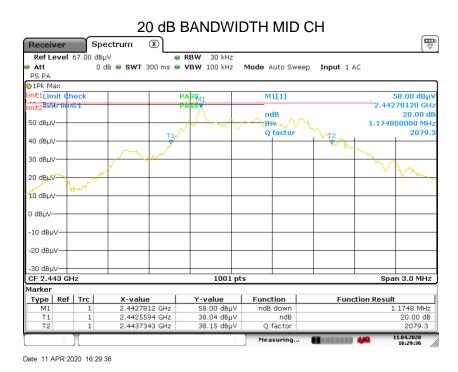


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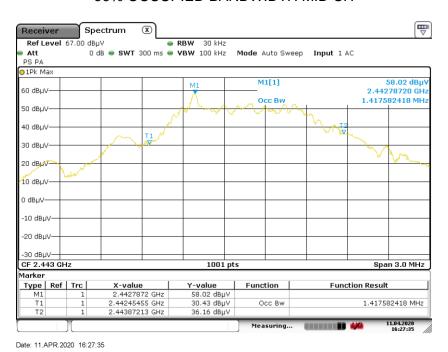


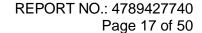


Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2443	1.1748	1.4176	PASS



99% OCCUPIED BANDWIDTH MID CH

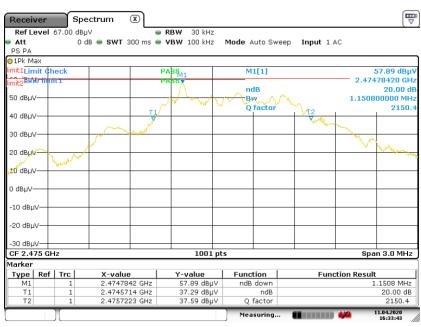




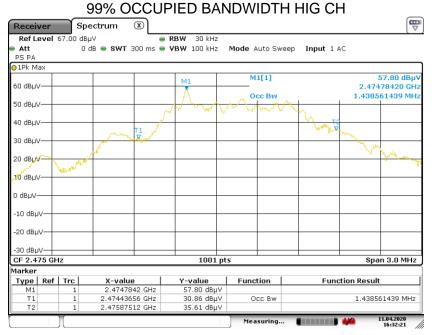


Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2475	1.1508	1.4386	PASS

20 dB BANDWIDTH HIG CH



Date: 11.APR.2020 16:33:43



Date: 11.APR.2020 16:32:21



7. RADIATED TEST RESULTS 7.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209

CFR 47 FCC §15.249 (a)(d)(c)(e)

ISED RSS-210 Issue 9 Annex B B.10

RSS-GEN Clause 8.9

The field strength of emissions from intentional radiators operated within these frequency bands					
Frequency (MHz)					
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		

Emissions radiated outside of the specified frequency bands above 30MHz					
Frequency Range	Field Strength Limit				
(MHz)	(uV/m) at 3 m	,	n) at 3 m -Peak		
		Quasi	-reak		
30 - 88	100	40			
88 - 216	150	43.5			
216 - 960	200	46			
Above 960	500	54			
Above 1000	500	Peak	Average		
Above 1000	500	74	54		

FCC Emissions radiated outside of the specified frequency bands below 30MHz				
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters				
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		



ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz					
Frequency Magnetic field strength (H-Field) (µA/m) Measurement distance (m)					
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300			
490 - 1705 kHz	63.7/F (F in kHz)	30			
1.705 - 30 MHz	0.08	30			

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

IC Restricted bands please refer to ISED RSS-GEN Clause 8.10

	Table 7 – Restricted frequency bands	forte 1
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 × 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 = 335B	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



FCC Restricted bands of operation:

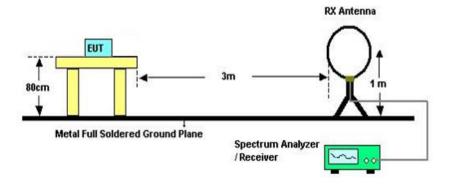
MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(²)	
13.36-13.41				

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c



TEST SETUP AND PROCEDURE

Below 30MHz

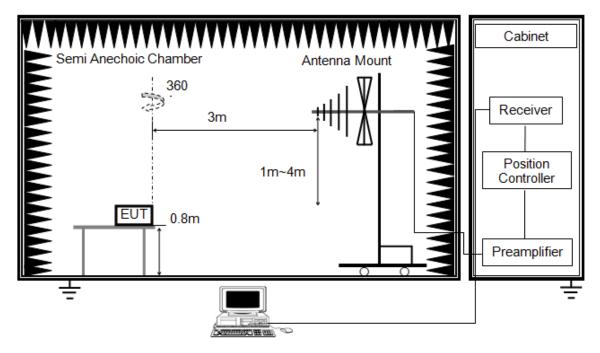


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G



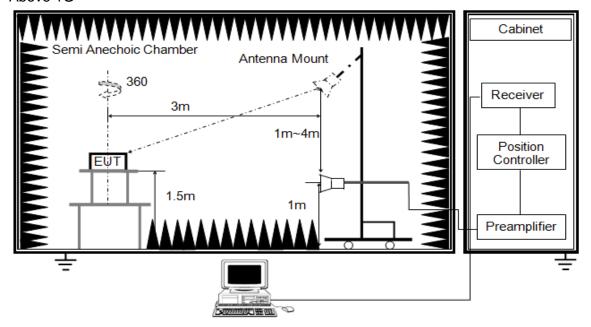
The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured



Above 1G



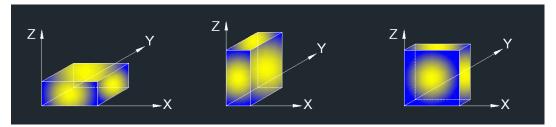
The setting of the spectrum analyser

RBW	1M	
IVEVV	PEAK: 3M AVG: see note 6	
Sweep	Auto	
Detector	Peak	
Trace	Max hold	

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 150cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to clause 6.1. ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

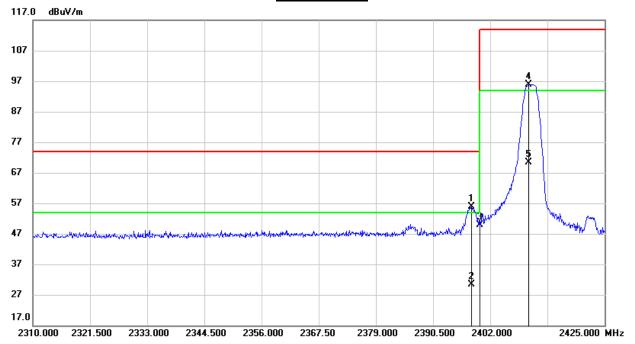
TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V



7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)

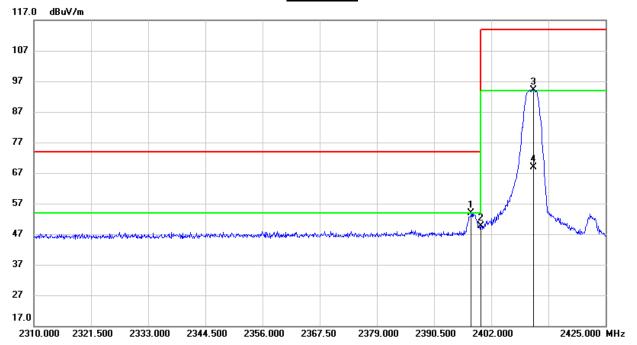


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2398.205	22.89	32.98	55.87	74.00	-18.13	peak
2	2398.205	-2.49	32.98	30.10	54.00	-23.9	AVG
3	2400.000	16.81	32.98	49.79	74.00	-24.21	peak
4	2409.705	62.76	33.05	95.81	114.00	-18.19	peak
5	2409.705	37.38	33.05	70.04	94.00	-23.96	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)

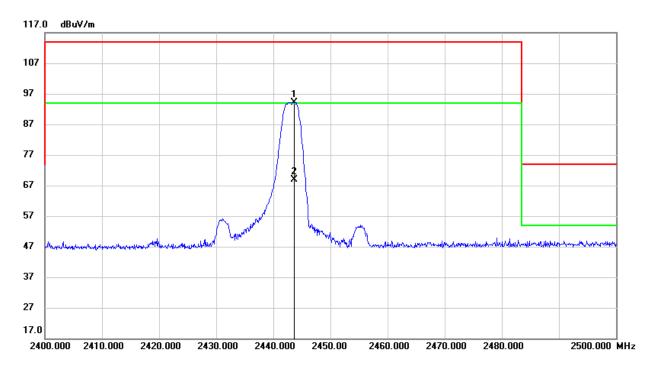


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.975	20.98	32.98	53.96	74.00	-20.04	peak
2	2400.000	16.58	32.98	49.56	74.00	-24.44	peak
3	2410.510	61.08	33.06	94.14	114.00	-19.86	peak
4	2410.510	35.70	33.06	68.37	94.00	-25.63	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, HORIZONTAL)

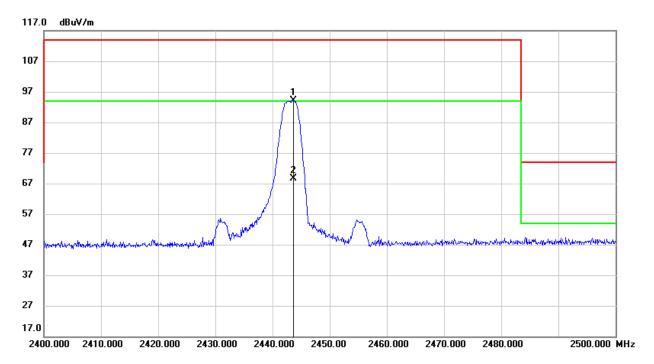


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2443.600	60.92	33.30	94.22	114.00	-19.78	peak
2	2443.600	35.54	33.30	68.45	94.00	-25.55	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)

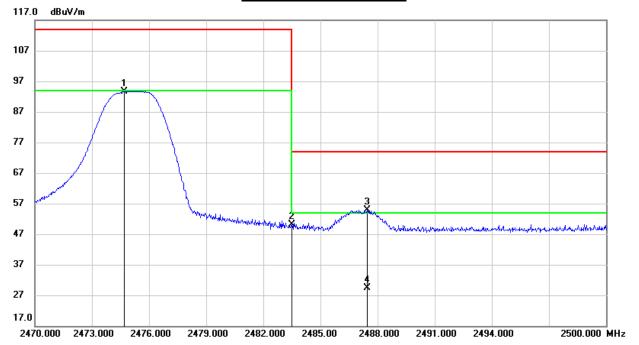


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2443.600	60.73	33.30	94.03	114.00	-19.97	peak
2	2443.600	35.35	33.30	68.26	94.00	-25.74	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)

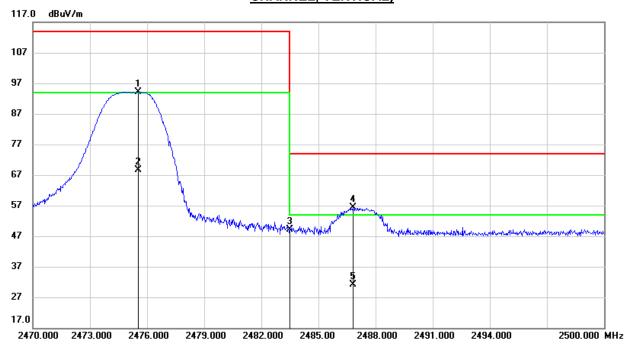


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2474.710	60.15	33.51	93.66	114.00	-20.34	peak
2	2483.500	16.54	33.58	50.12	74.00	-23.88	peak
3	2487.460	21.23	33.61	54.84	74.00	-19.16	peak
4	2487.460	-4.15	33.61	29.07	54.00	-24.03	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)



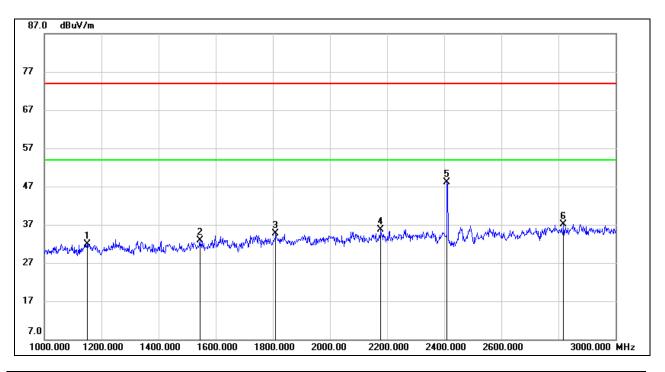
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2475.550	60.53	33.53	94.06	114.00	-19.94	peak
2	2475.550	35.15	33.53	68.29	94.00	-25.71	AVG
3	2483.500	15.63	33.58	49.21	74.00	-24.79	peak
4	2486.800	22.78	33.61	56.39	74.00	-17.61	peak
5	2486.800	-2.60	33.61	30.62	54.00	-23.38	AVG

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.3. SPURIOUS EMISSIONS (1~3GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

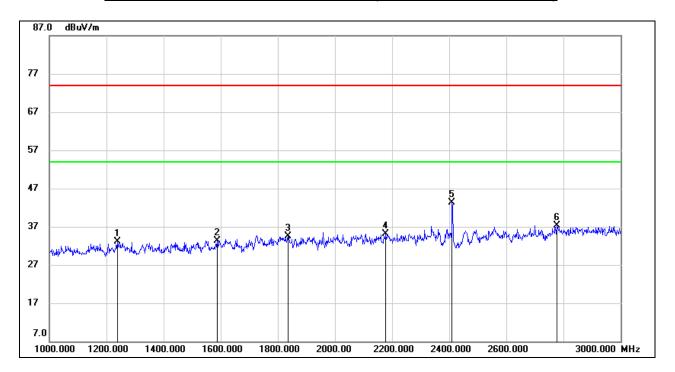


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1150.000	45.01	-13.10	31.91	74.00	-42.09	peak
2	1544.000	44.67	-11.85	32.82	74.00	-41.18	peak
3	1810.000	44.60	-9.92	34.68	74.00	-39.32	peak
4	2178.000	44.43	-8.78	35.65	74.00	-38.35	peak
5	2410.000	55.90	-7.78	48.12	/	/	fundamental
6	2818.000	43.10	-5.97	37.13	74.00	-36.87	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

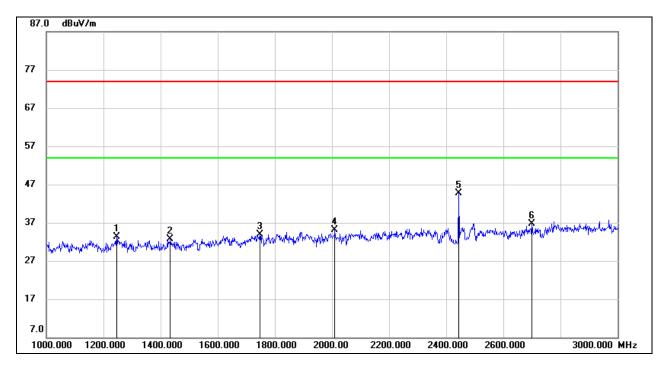


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1238.000	45.58	-12.55	33.03	74.00	-40.97	peak
2	1588.000	44.74	-11.50	33.24	74.00	-40.76	peak
3	1836.000	44.37	-9.92	34.45	74.00	-39.55	peak
4	2178.000	43.94	-8.78	35.16	74.00	-38.84	peak
5	2410.000	51.04	-7.78	43.26	/	/	fundamental
6	2776.000	43.63	-6.32	37.31	74.00	-36.69	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

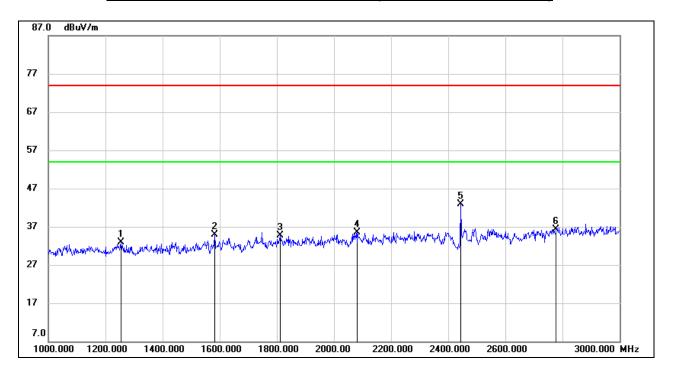


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1246.000	45.92	-12.52	33.40	74.00	-40.60	peak
2	1434.000	45.07	-12.33	32.74	74.00	-41.26	peak
3	1748.000	44.27	-10.43	33.84	74.00	-40.16	peak
4	2010.000	44.90	-9.75	35.15	74.00	-38.85	peak
5	2443.000	52.28	-7.55	44.73	/	/	fundamental
6	2700.000	43.76	-7.13	36.63	74.00	-37.37	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

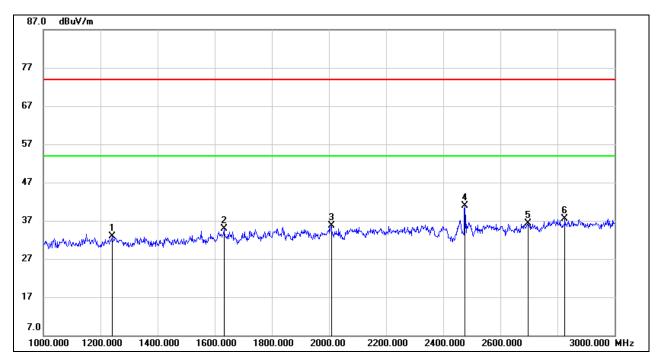


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1254.000	45.48	-12.50	32.98	74.00	-41.02	peak
2	1582.000	46.37	-11.54	34.83	74.00	-39.17	peak
3	1812.000	44.68	-9.92	34.76	74.00	-39.24	peak
4	2082.000	44.75	-9.28	35.47	74.00	-38.53	peak
5	2443.000	50.48	-7.55	42.93	/	/	fundamental
6	2778.000	42.53	-6.30	36.23	74.00	-37.77	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

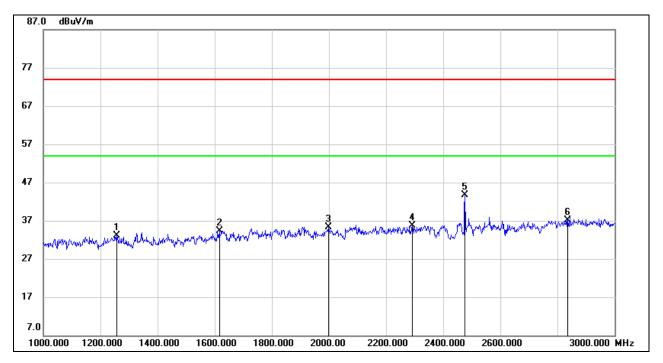


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1240.000	45.47	-12.54	32.93	74.00	-41.07	peak
2	1632.000	46.11	-11.24	34.87	74.00	-39.13	peak
3	2008.000	45.58	-9.78	35.80	74.00	-38.20	peak
4	2475.000	48.18	-7.33	40.85	/	/	fundamental
5	2696.000	43.50	-7.15	36.35	74.00	-37.65	peak
6	2826.000	43.36	-5.92	37.44	74.00	-36.56	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



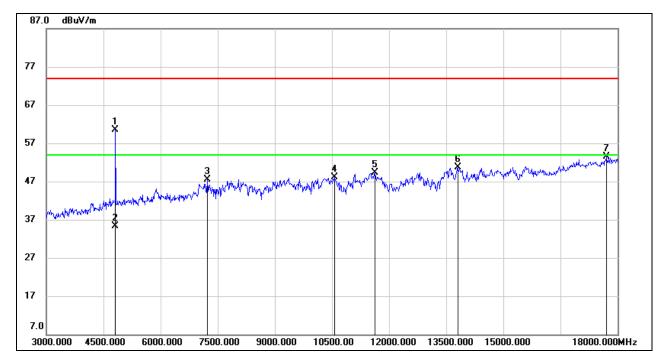
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1256.000	45.50	-12.49	33.01	74.00	-40.99	peak
2	1616.000	45.57	-11.32	34.25	74.00	-39.75	peak
3	1998.000	45.14	-9.83	35.31	74.00	-38.69	peak
4	2292.000	43.98	-8.23	35.75	74.00	-38.25	peak
5	2475.000	51.04	-7.33	43.71	/	/	fundamental
6	2836.000	43.05	-5.87	37.18	74.00	-36.82	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



7.4. SPURIOUS EMISSIONS (3~18GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

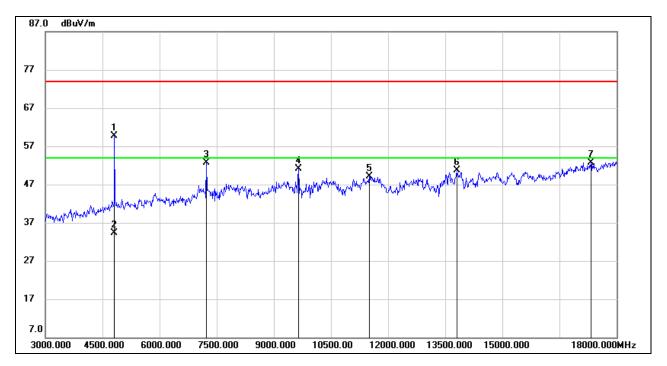


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	60.08	0.51	60.59	74.00	-13.41	peak
2	4815.000	34.70	0.51	34.82	54.00	-18.79	AVG
3	7230.000	41.69	5.89	47.58	74.00	-26.42	peak
4	10560.000	36.36	11.73	48.09	74.00	-25.91	peak
5	11625.000	36.25	13.12	49.37	74.00	-24.63	peak
6	13800.000	33.60	17.10	50.70	74.00	-23.30	peak
7	17700.000	30.98	22.43	53.41	74.00	-20.59	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

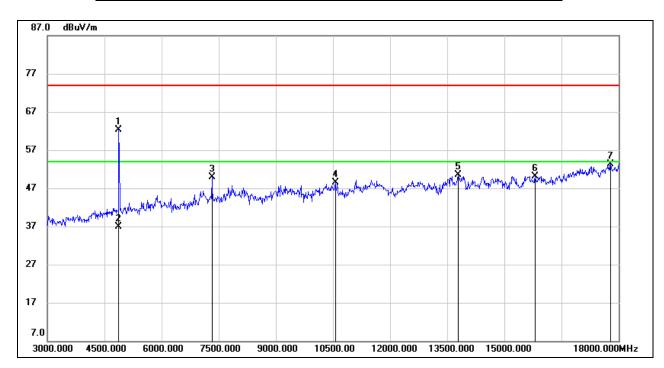


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	59.22	0.51	59.73	74.00	-14.27	peak
2	4815.000	33.84	0.51	33.96	54.00	-19.65	AVG
3	7230.000	46.89	5.89	52.78	74.00	-21.22	peak
4	9645.000	41.37	9.66	51.03	74.00	-22.97	peak
5	11505.000	35.78	13.42	49.20	74.00	-24.80	peak
6	13800.000	33.61	17.10	50.71	74.00	-23.29	peak
7	17325.000	30.98	21.67	52.65	74.00	-21.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

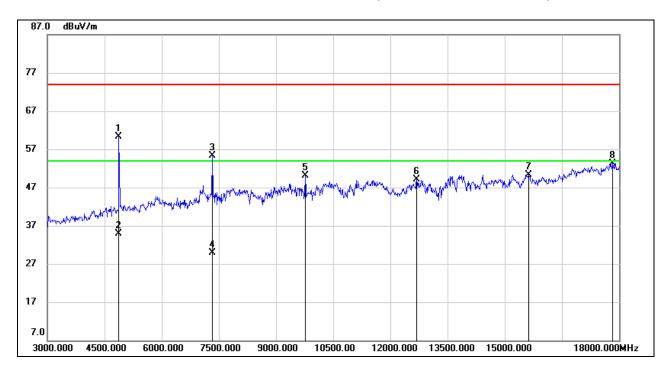


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	61.52	0.76	62.28	74.00	-11.72	peak
2	4875.000	36.14	0.76	36.49	54.00	-17.10	AVG
3	7320.000	43.68	6.14	49.82	74.00	-24.18	peak
4	10560.000	36.86	11.73	48.59	74.00	-25.41	peak
5	13785.000	33.54	16.91	50.45	74.00	-23.55	peak
6	15810.000	33.01	17.14	50.15	74.00	-23.85	peak
7	17790.000	30.03	23.22	53.25	74.00	-20.75	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

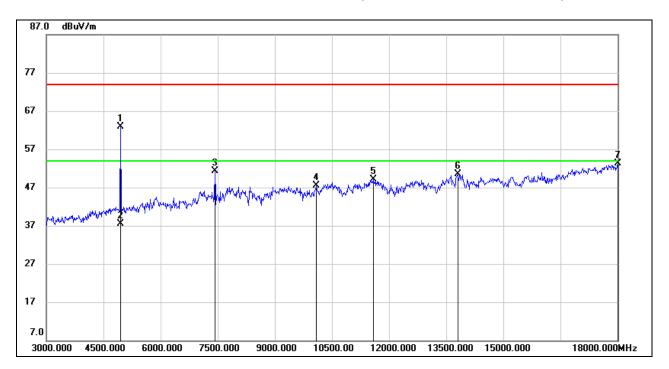


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	59.61	0.76	60.37	74.00	-13.63	peak
2	4875.000	34.23	0.76	34.60	54.00	-19.01	AVG
3	7335.000	49.17	6.21	55.38	74.00	-18.62	peak
4	7335.000	23.79	6.21	29.6	54.00	-24.00	AVG
5	9765.000	40.35	9.69	50.04	74.00	-23.96	peak
6	12690.000	34.79	14.25	49.04	74.00	-24.96	peak
7	15630.000	33.50	16.89	50.39	74.00	-23.61	peak
8	17820.000	30.02	23.30	53.32	74.00	-20.68	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

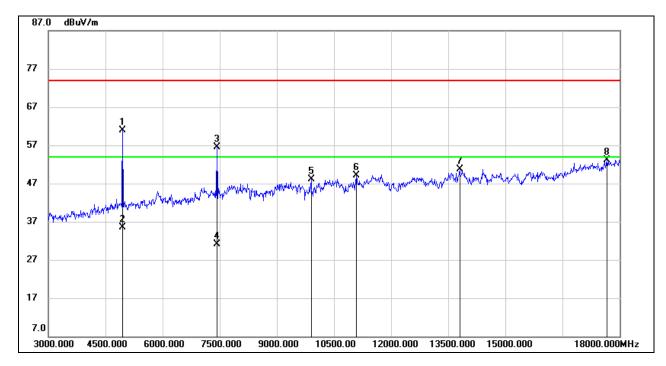


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	61.83	1.13	62.96	74.00	-11.04	peak
2	4950.000	36.45	1.13	37.19	54.00	-16.42	AVG
3	7425.000	44.94	6.39	51.33	74.00	-22.67	peak
4	10080.000	36.94	10.48	47.42	74.00	-26.58	peak
5	11580.000	35.87	13.23	49.10	74.00	-24.90	peak
6	13800.000	33.36	17.10	50.46	74.00	-23.54	peak
7	18000.000	29.90	23.46	53.36	74.00	-20.64	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



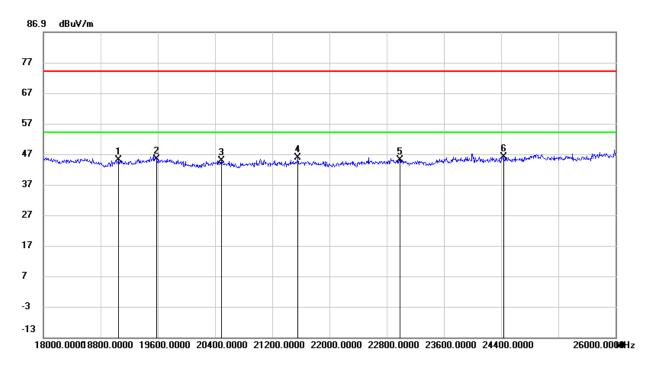
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	59.78	1.13	60.91	74.00	-13.09	peak
2	4950.000	34.40	1.13	35.14	54.00	-18.47	AVG
3	7425.000	50.17	6.39	56.56	74.00	-17.44	peak
4	7425.000	24.79	6.39	30.79	54.00	-22.82	AVG
5	9900.000	37.98	10.08	48.06	74.00	-25.94	peak
6	11085.000	36.48	12.57	49.05	74.00	-24.95	peak
7	13800.000	33.57	17.10	50.67	74.00	-23.33	peak
8	17670.000	30.96	22.24	53.20	74.00	-20.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



7.5. SPURIOUS EMISSIONS (18~26GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

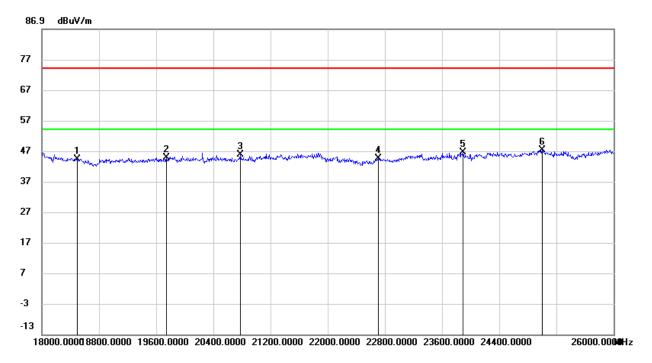


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19048.000	49.88	-4.93	44.95	74.00	-29.05	peak
2	19584.000	50.01	-4.64	45.37	74.00	-28.63	peak
3	20488.000	49.85	-4.96	44.89	74.00	-29.11	peak
4	21560.000	51.56	-5.77	45.79	74.00	-28.21	peak
5	22984.000	50.61	-5.61	45.00	74.00	-29.00	peak
6	24432.000	48.90	-2.86	46.04	74.00	-27.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18496.000	48.68	-4.38	44.30	74.00	-29.70	peak
2	19744.000	49.14	-4.35	44.79	74.00	-29.21	peak
3	20776.000	50.81	-5.14	45.67	74.00	-28.33	peak
4	22704.000	50.30	-5.75	44.55	74.00	-29.45	peak
5	23896.000	50.82	-4.26	46.56	74.00	-27.44	peak
6	25000.000	48.46	-1.08	47.38	74.00	-26.62	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

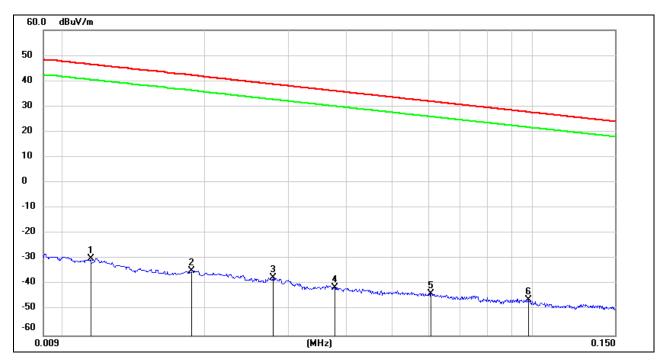
Note: All test modes had been tested, only the worst data record in the report.



7.6. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)



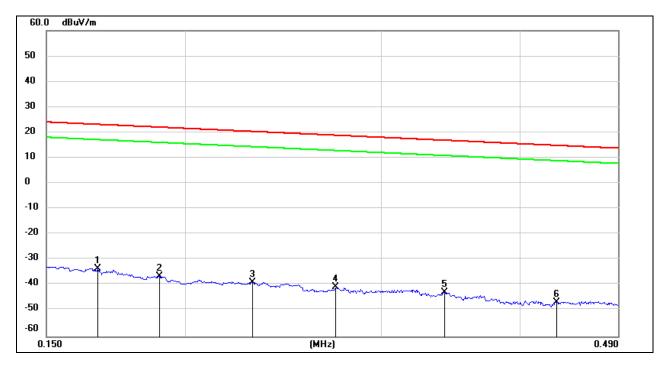


No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0114	71.45	-101.40	-29.95	46.46	-81.45	-5.04	-76.41	peak
2	0.0187	66.70	-101.35	-34.65	42.16	-86.15	-9.34	-76.81	peak
3	0.0279	64.17	-101.38	-37.21	38.69	-88.71	-12.81	-75.90	peak
4	0.0378	60.25	-101.42	-41.17	36.05	-92.67	-15.45	-77.22	peak
5	0.0606	57.95	-101.52	-43.57	31.95	-95.07	-19.55	-75.52	peak
6	0.0981	55.77	-101.78	-46.01	27.77	-97.51	-23.73	-73.78	peak

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
 - 4. $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$.



150kHz ~ 490kHz

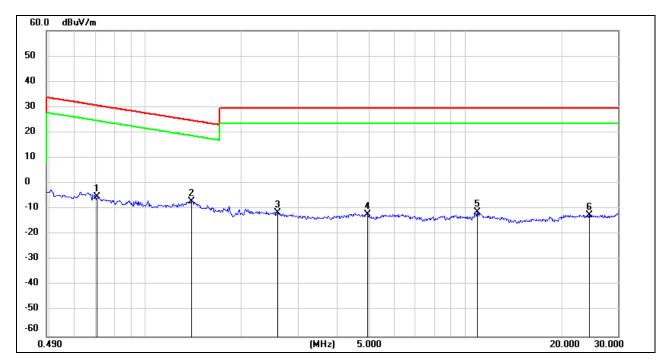


No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1669	68.15	-101.66	-33.51	23.16	-85.01	-28.34	-56.67	peak
2	0.1895	65.15	-101.70	-36.55	22.05	-88.05	-29.45	-58.60	peak
3	0.2298	63.05	-101.77	-38.72	20.37	-90.22	-31.13	-59.09	peak
4	0.2731	61.06	-101.83	-40.77	18.88	-92.27	-32.62	-59.65	peak
5	0.3421	59.10	-101.90	-42.80	16.92	-94.3	-34.58	-59.72	peak
6	0.4314	55.47	-101.99	-46.52	14.90	-98.02	-36.6	-61.42	peak

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
 - 4. $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$.



490kHz ~ 30MHz



No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.7066	56.90	-62.11	-5.21	30.62	-56.71	-20.88	-35.83	peak
2	1.3931	55.18	-62.09	-6.91	24.72	-58.41	-26.78	-31.63	peak
3	2.5935	50.11	-61.68	-11.57	29.54	-63.07	-21.96	-41.11	peak
4	4.9481	49.29	-61.47	-12.18	29.54	-63.68	-21.96	-41.72	peak
5	10.9365	49.50	-60.84	-11.34	29.54	-62.84	-21.96	-40.88	peak
6	24.5106	48.08	-60.49	-12.41	29.54	-63.91	-21.96	-41.95	peak

Note: 1. Measurement = Reading Level + Correct Factor.

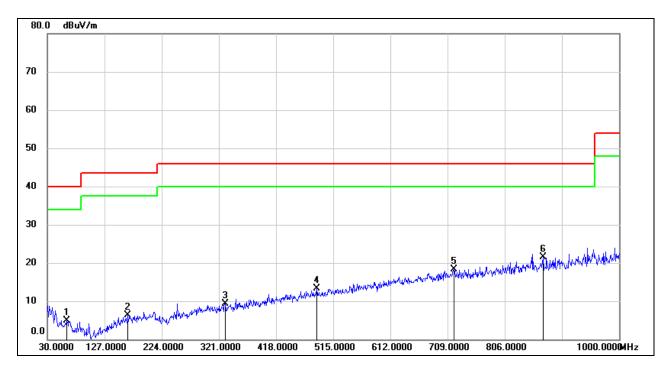
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
 - 4. $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$.

Note: All test modes had been tested, only the worst data record in the report.



7.7. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



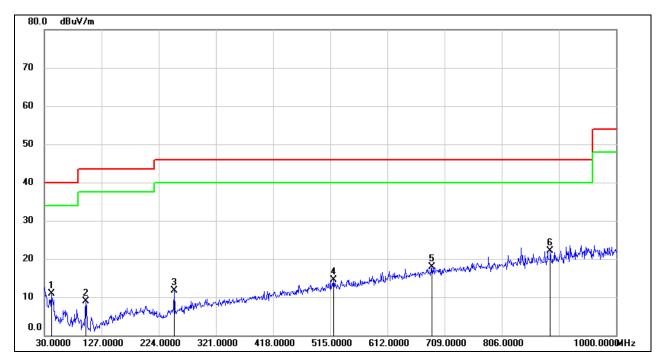
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	62.9800	24.50	-19.54	4.96	40.00	-35.04	QP
2	166.7700	23.54	-17.32	6.22	43.50	-37.28	QP
3	331.6700	23.12	-13.89	9.23	46.00	-36.77	QP
4	486.8700	24.51	-11.12	13.39	46.00	-32.61	QP
5	719.6700	24.67	-6.45	18.22	46.00	-27.78	QP
6	870.9900	26.09	-4.62	21.47	46.00	-24.53	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	41.6400	28.94	-17.95	10.99	40.00	-29.01	QP
2	99.8399	30.65	-21.73	8.92	43.50	-34.58	QP
3	250.1900	27.95	-16.34	11.61	46.00	-34.39	QP
4	520.8200	24.87	-10.41	14.46	46.00	-31.54	QP
5	687.6599	25.26	-7.29	17.97	46.00	-28.03	QP
6	888.4500	26.53	-4.36	22.17	46.00	-23.83	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All test modes had been tested, only the worst data record in the report.



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8. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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 shall be considered sufficient to comply with the provisions of this section. 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.

Please refer to FCC §15.247(b)(4)

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

<u>RESULTS</u>	
Complies	
•	
	END OF REPORT