

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Savage/Savage II

MODEL NUMBER: GV-6218/SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-6208/SC-6153/SC-6154

FCC ID: 2ASK3GV-6128R

REPORT NUMBER: 4789518992-1

ISSUE DATE: June 19, 2020

Prepared for

AMAX INDUSTRIAL GROUP CHINA CO.,LTD OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



REPORT NO.: 4789518992-1 Page 2 of 52

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/19/2020	Initial Issue	



Summary of Test Results					
Clause	use Test Items FCC Rules		Test Results		
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c)	Pass		
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) CFR 47 FCC §15.205 and §15.209	Pass		
3	Conducted Emission Test For AC Power Port	FCC Part 15.207	Pass		
4	Antenna Requirement	CFR 47 FCC §15.203	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 > when <Accuracy Method> decision rule is applied.



TABLE OF CONTENTS

1. AT	TESTATION OF TEST RESULTS	5
2. TE	ST METHODOLOGY	6
3. FA	ACILITIES AND ACCREDITATION	6
4. CA	ALIBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	MEASUREMENT UNCERTAINTY	7
5. EC	QUIPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	MAXIMUM FIELD STRENGTH	8
5.3.	CHANNEL LIST	8
5.4.	DESCRIPTION OF AVAILABLE ANTENNAS	9
5.5.	TEST CHANNEL CONFIGURATION	9
5.6.	THE WORSE CASE POWER SETTING PARAMETER	9
5.7.	TEST ENVIRONMENT	9
5.8.	DESCRIPTION OF TEST SETUP	10
5.9.	MEASURING INSTRUMENT AND SOFTWARE USED	11
6. AN	NTENNA PORT TEST RESULTS	12
6.1.	ON TIME AND DUTY CYCLE	12
6.2.	20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	14
7. RA	ADIATED TEST RESULTS	18
7.1.	LIMITS AND PROCEDURE	18
7.2.	RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL E. 24	MISSIONS
7.3.	SPURIOUS EMISSIONS (1~3GHz)	30
7.4.	SPURIOUS EMISSIONS (3~18GHz)	36
7.5.	SPURIOUS EMISSIONS (18~26GHz)	42
7.6.	SPURIOUS EMISSIONS BELOW 30MHz	44
7.7.	SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz	47
8. AC	POWER LINE CONDUCTED EMISSIONS	49
9. AN	NTENNA REQUIREMENTS	52



REPORT NO.: 4789518992-1

Page 5 of 52

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Manufacturer Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD

Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L

TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

EUT Information

EUT Name: Savage/Savage II

Model: GV-6128

Series Model: SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-

6208/SC-6153/SC-6154

Sample ID: 3120245

Model difference: All the same except for the model name and color.

Sample Received Date: June 10, 2020

Sample Status: Normal

Date of Tested: June 10, 2020~ June 18, 2020

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS		

Prepared By: Checked By:

Mick. Zhong Shemmy lier

Mick Zhang Shawn Wen Project Engineer Laboratory Leader

Approved By:

Stephen Guo Laboratory Manager



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.

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
Cortinicato	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

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.



REPORT NO.: 4789518992-1 Page 7 of 52

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

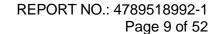
EUT Name	Savage/Savage II			
EUT Description	The EUT is a wireless remote car.			
Model	GV-6128			
Series Model	SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-6208/SC-6153/SC-6154			
Model difference	All the same except for the model name and color.		ame and color.	
Product Description	Operation Frequency		2405 MHz ~ 2475 MHz	
Product Description	Modulation	odulation Type GFSK		
Battery	DC 7.4V			
Power Adapter	Input DC 5V			

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max Peak field strength (dBµV/m)
2475	71[71]	83.79

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	19	2423	37	2441	55	2459
2	2406	20	2424	38	2442	56	2460
3	2407	21	2425	39	2443	57	2461
4	2408	22	2426	40	2444	58	2462
5	2409	23	2427	41	2445	59	2463
6	2410	24	2428	42	2446	60	2464
7	2411	25	2429	43	2447	61	2465
8	2412	26	2430	44	2448	62	2466
9	2413	27	2431	45	2449	63	2467
10	2414	28	2432	46	2450	64	2468
11	2415	29	2433	47	2451	65	2469
12	2416	30	2434	48	2452	66	2470
13	2417	31	2435	49	2453	67	2471
14	2418	32	2436	50	2454	68	2472
15	2419	33	2437	51	2455	69	2473
16	2420	34	2438	52	2456	70	2474
17	2421	35	2439	53	2457	71	2475
18	2422	36	2440	54	2458	72	/





5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2405~ 2475	Wire Antenna	0

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

5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 36(MID Channel), CH 71(High Channel)	2405MHz, 2440MHz, 2475MHz

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2405 MHz ~ 2475 MHz Band				
Test Soft	ware Version	1		
Modulation Type	Transmit Antenna Number	Test Channel		
Modulation Type		CH 1	CH36	CH 71
GFSK	1	Default	Default	Default

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests			
Relative Humidity	55 ~ 65%			
Atmospheric Pressure:	1	025Pa		
Temperature	TN	22 ~ 28°C		
	VL	/		
Voltage:	VN	DC 7.4V		
	VH	/		

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature



REPORT NO.: 4789518992-1 Page 10 of 52

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	USB to DC	/	0.6	/

Note: The cable is provided by client.

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Adapter	SAMSUNG	ETA0U83CBC	5Vdc,1A

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST

EUT

Note: New battery was used during all tests.



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions								
				nstrumen		•		
Used	Equipment	Manufacturer		del No.		al No.	Last Cal.	Next Cal.
<u> </u>	EMI Test Receiver	R&S		ESR3		1961	Dec. 5, 2019	Dec. 5, 2020
V	Two-Line V- Network	R&S		NV216		1983	Dec. 5, 2019	Dec. 5, 2020
				Software				
Used	Descr	ription		Manufa			Name	Version
V	Test Software Emis			Fara	ad		EZ-EMC	Ver. UL-3A1
	Radiated Emissions							
Instrument								
Used		Manufacturer	Mo	del No.	Seria	al No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N	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	29444	09099	Dec. 5, 2019	Dec. 5, 2020
V	EMI Measurement Receiver	R&S	Е	SR26	101	377	Dec. 05, 2019	Dec.05, 2020
$\overline{\checkmark}$	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
\checkmark	Loop antenna	Schwarzbeck	1	519B	000	800	Jan.17, 2019	Jan.17, 2022
V	Preamplifier	TDK		02-001- 3000		-302- 050	Dec. 05, 2019	Dec.05, 2020
V	High Gain Horn Antenna	Schwarzbeck	BBH	HA-9170	69	91	Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	P	A-02-2		-307- 003	Dec. 05, 2019	Dec.05, 2020
				Software				
Used				Manufa	cturer		Name	Version
V	Test Software disturb			Fara	ad		EZ-EMC	Ver. UL-3A1
			Othe	r instrun	nents			
Used	Equipment	Manufacturer	Model No.		Seria	al No.	Last Cal.	Next Cal.
V	High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS		2	23	Dec. 05, 2019	Dec.05, 2020
	Band Reject Filter	Wainwright	WF 235 24	RCJV8- 0-2400- 483.5- 3.5-40SS		4	Dec. 05, 2019	Dec.05, 2020



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

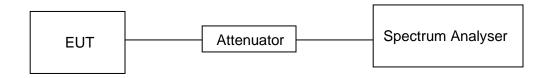
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	55%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.4V

RESULTS

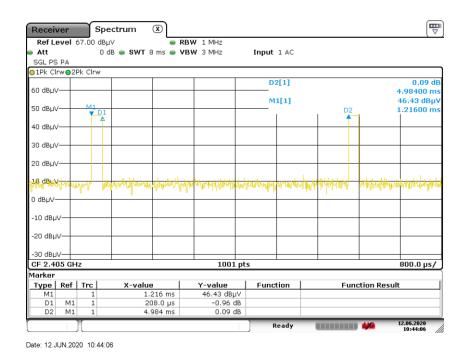
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	4.368	100	0.04368	4.368	-27.19

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

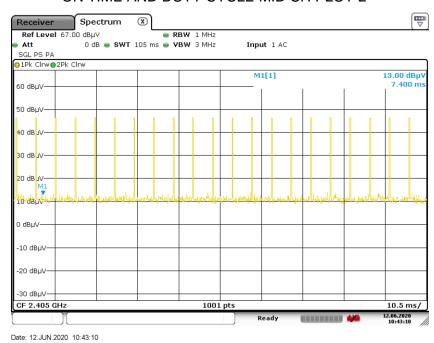
Where: x is Duty Cycle



ON TIME AND DUTY CYCLE MID CH PLOT



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					
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		

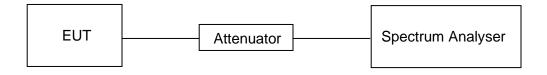
TEST PROCEDURE

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

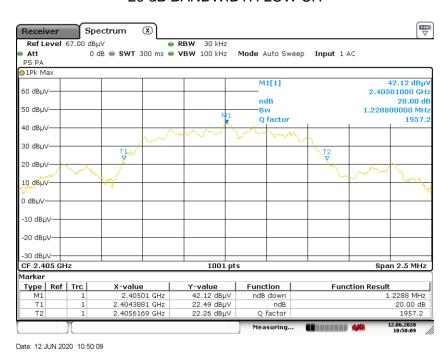
Temperature	23.2°C	Relative Humidity	53%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.4V



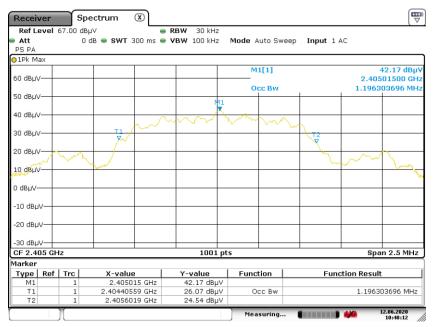
RESULTS

Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2405	1.2288	1.1963	PASS

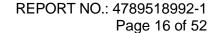
20 dB BANDWIDTH LOW CH



99% OCCUPIED BANDWIDTH LOW CH



Date: 12.JUN.2020 10:48:12





Frequency (MHz)

20dB bandwidth (MHz)

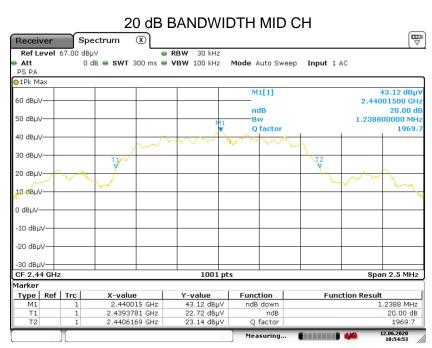
99% bandwidth (MHz)

Result

1.2388

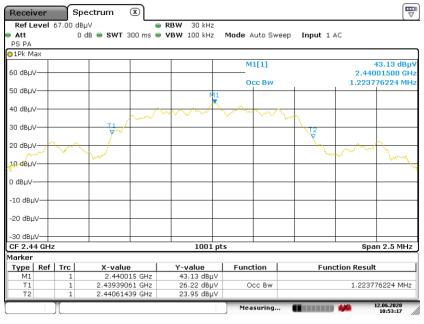
1.2238

PASS

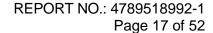


Date: 12.JUN.2020 10:54:53

99% OCCUPIED BANDWIDTH MID CH



Date: 12.JUN.2020 10:53:16





Frequency (MHz)

20dB bandwidth (MHz)

99% bandwidth (MHz)

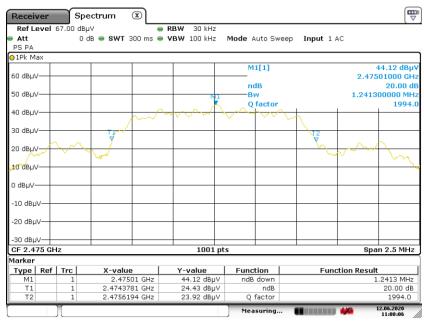
Result

1.2413

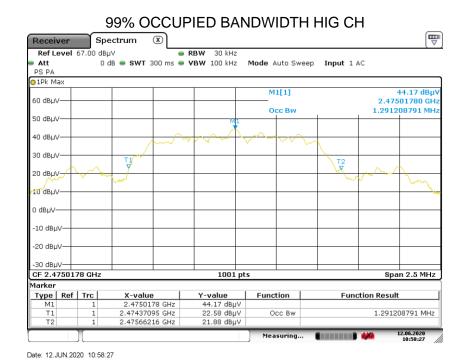
1.2912

PASS

20 dB BANDWIDTH HIG CH



Date: 12.JUN.2020 11:00:06



REPORT NO.: 4789518992-1 Page 18 of 52

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)

The field strength of emissions from intentional radiators operated within these frequency bands							
Frequency (MHz)	Field strength of Fundamental	Distance (m)					
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	Field Strength Limit				
(MHz)	(uV/m) at 3 m	(dBuV/m	n) at 3 m			
(1711 12)	(4 7/111) 41 0 111	Quasi-Peak				
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				



FCC Restricted bands of operation:

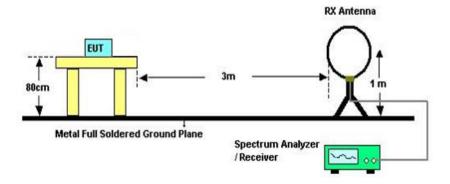
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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



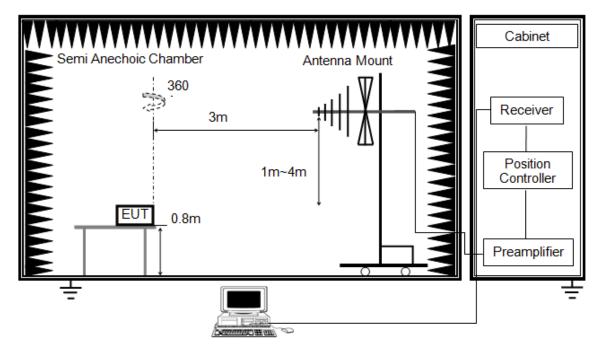
The setting of the spectrum analyser

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



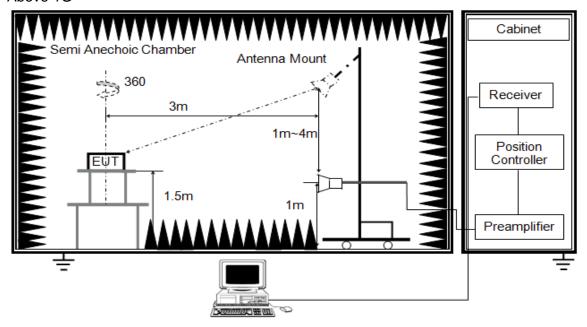
The setting of the spectrum analyser

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



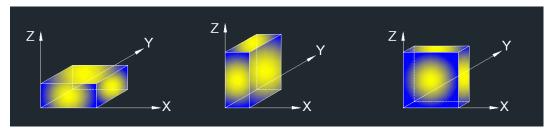
The setting of the spectrum analyser

RBW	1M
VBW	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.



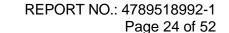
X axis, Y axis, Z axis positions:



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

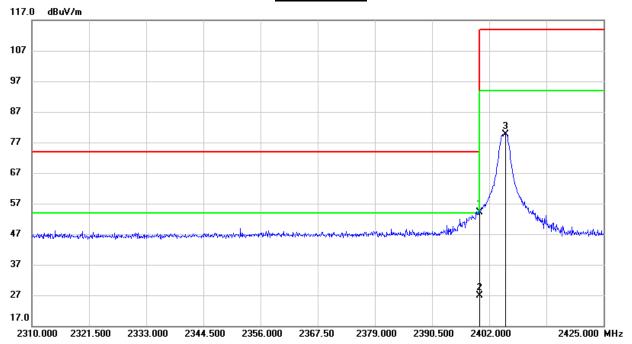
Temperature	23.6°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.4V





7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

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

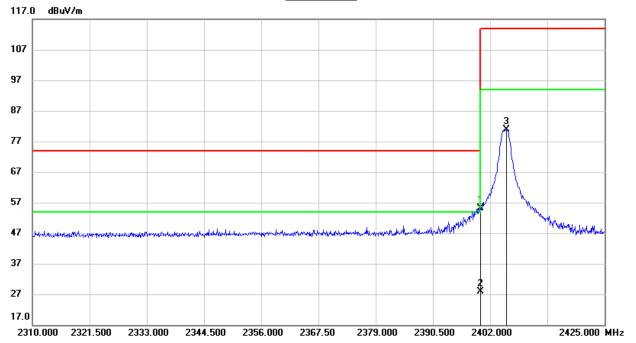


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2400.000	21.09	32.98	54.07	74.00	-19.93	peak
2	2400.000	-6.10	32.98	26.88	54.00	-27.12	AVG
3	2405.335	46.61	33.02	79.63	114.00	-34.37	peak

- 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 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)

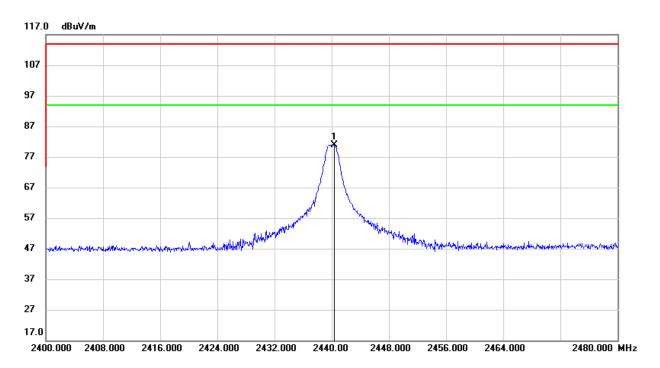


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2400.000	22.05	32.98	55.03	74.00	-18.97	peak
2	2400.000	-5.14	32.98	27.84	54.00	-26.16	AVG
3	2405.335	47.75	33.02	80.77	114.00	-33.23	peak

- 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 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)

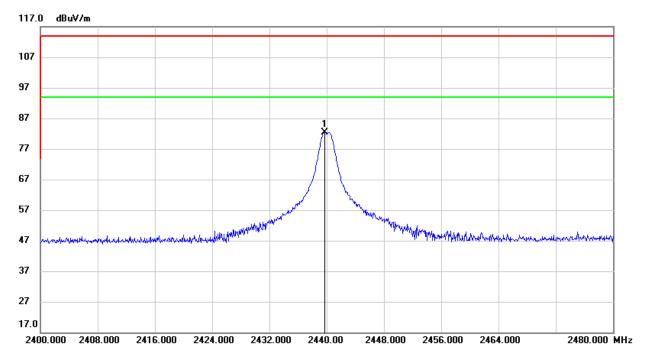


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2440.320	47.66	33.27	80.93	114.00	-33.07	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



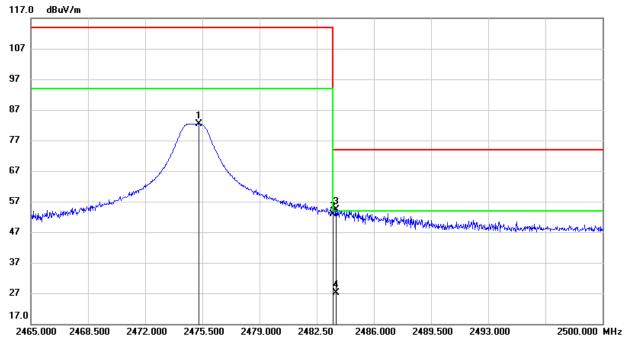
FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2439.680	49.11	33.26	82.37	114.00	-31.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst 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)

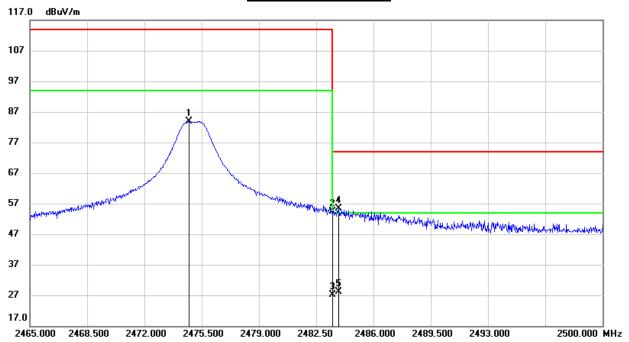


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2475.290	48.96	33.53	82.49	114.00	-31.51	peak
2	2483.500	19.35	33.58	52.93	74.00	-21.07	peak
3	2483.690	20.77	33.58	54.35	74.00	-19.65	peak
4	2483.690	-6.42	33.58	27.16	54.00	-26.84	AVG

- 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)



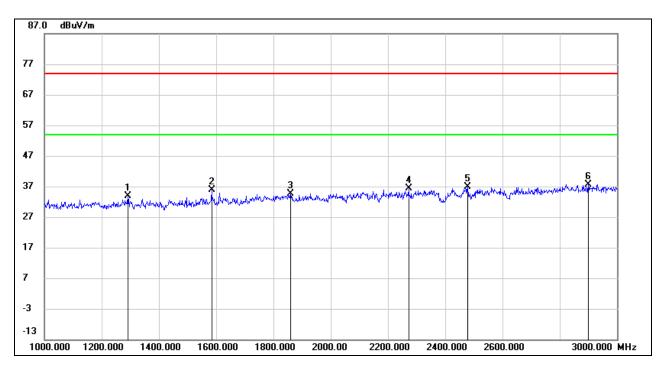
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2474.730	50.28	33.51	83.79	114.00	-30.21	peak
2	2483.500	20.72	33.58	54.30	74.00	-19.70	peak
3	2483.500	-6.47	33.58	27.11	54.00	-26.89	AVG
4	2483.865	21.73	33.58	55.31	74.00	-18.69	peak
5	2483.865	-5.46	33.58	28.12	54.00	-25.88	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)

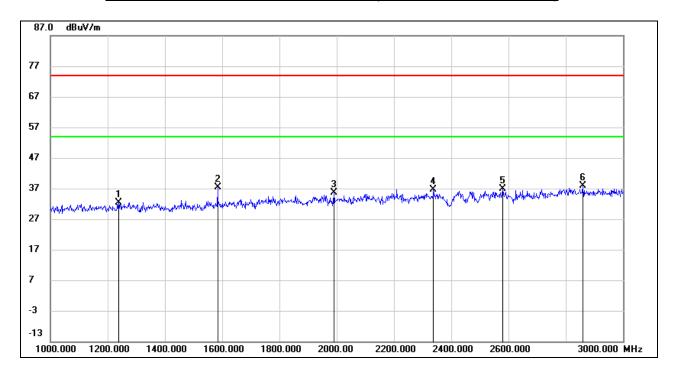


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1292.000	46.22	-12.36	33.86	74.00	-40.14	peak
2	1584.000	47.47	-11.53	35.94	74.00	-38.06	peak
3	1860.000	44.61	-9.93	34.68	74.00	-39.32	peak
4	2272.000	44.73	-8.33	36.40	74.00	-37.60	peak
5	2478.000	44.26	-7.32	36.94	74.00	-37.06	peak
6	2900.000	43.19	-5.52	37.67	74.00	-36.33	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 Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



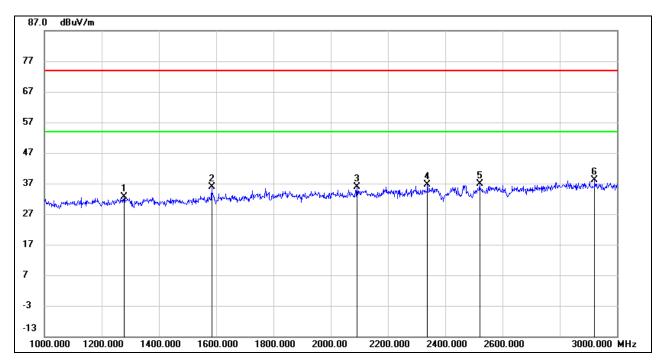
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1238.000	44.99	-12.55	32.44	74.00	-41.56	peak
2	1584.000	48.84	-11.53	37.31	74.00	-36.69	peak
3	1990.000	45.53	-9.84	35.69	74.00	-38.31	peak
4	2338.000	44.79	-8.06	36.73	74.00	-37.27	peak
5	2580.000	44.48	-7.59	36.89	74.00	-37.11	peak
6	2860.000	43.62	-5.73	37.89	74.00	-36.11	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 Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

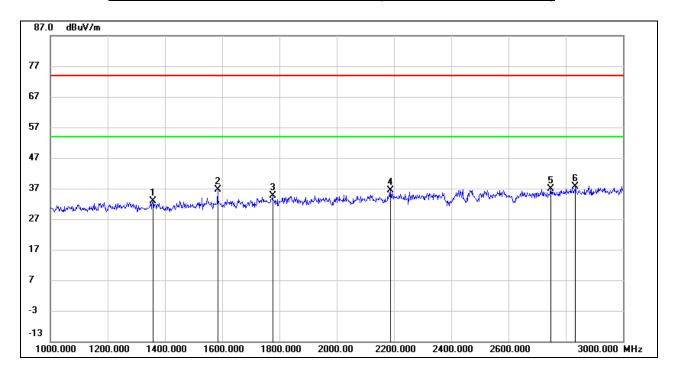


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1278.000	45.04	-12.42	32.62	74.00	-41.38	peak
2	1584.000	47.53	-11.53	36.00	74.00	-38.00	peak
3	2092.000	45.02	-9.20	35.82	74.00	-38.18	peak
4	2338.000	44.59	-8.06	36.53	74.00	-37.47	peak
5	2520.000	44.07	-7.27	36.80	74.00	-37.20	peak
6	2922.000	43.56	-5.47	38.09	74.00	-35.91	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 Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

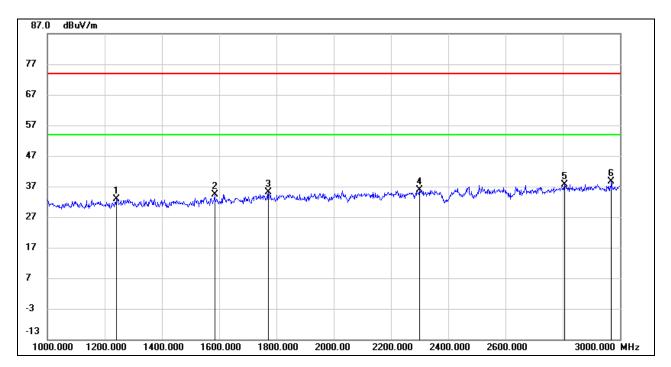


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1358.000	45.15	-12.37	32.78	74.00	-41.22	peak
2	1584.000	48.15	-11.53	36.62	74.00	-37.38	peak
3	1776.000	44.82	-10.15	34.67	74.00	-39.33	peak
4	2188.000	45.14	-8.72	36.42	74.00	-37.58	peak
5	2748.000	43.53	-6.61	36.92	74.00	-37.08	peak
6	2834.000	43.58	-5.88	37.70	74.00	-36.30	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 Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

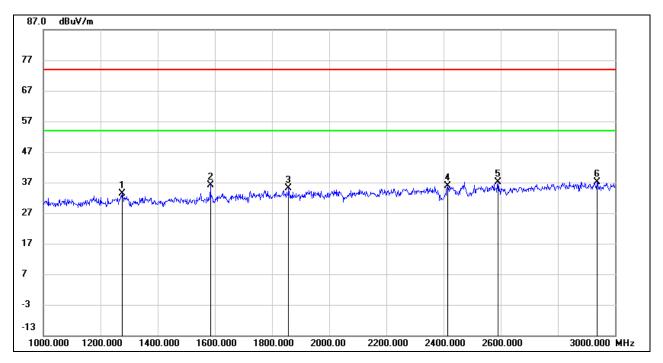


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1240.000	45.45	-12.54	32.91	74.00	-41.09	peak
2	1584.000	45.97	-11.53	34.44	74.00	-39.56	peak
3	1772.000	45.33	-10.20	35.13	74.00	-38.87	peak
4	2300.000	43.96	-8.19	35.77	74.00	-38.23	peak
5	2806.000	43.75	-6.02	37.73	74.00	-36.27	peak
6	2970.000	43.95	-5.37	38.58	74.00	-35.42	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 Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



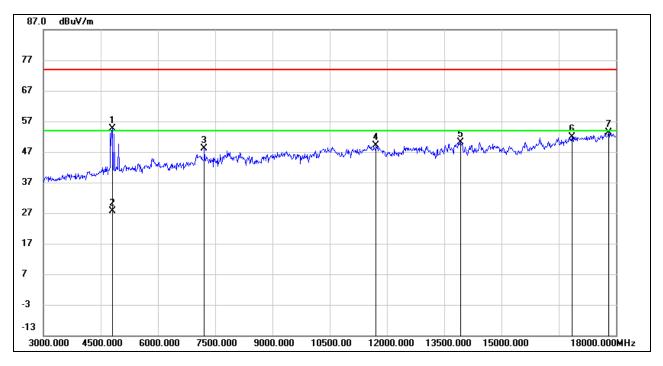
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1276.000	45.69	-12.42	33.27	74.00	-40.73	peak
2	1584.000	47.60	-11.53	36.07	74.00	-37.93	peak
3	1858.000	44.96	-9.93	35.03	74.00	-38.97	peak
4	2414.000	43.56	-7.76	35.80	74.00	-38.20	peak
5	2590.000	44.81	-7.66	37.15	74.00	-36.85	peak
6	2936.000	42.63	-5.44	37.19	74.00	-36.81	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 Band Reject Filter 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)

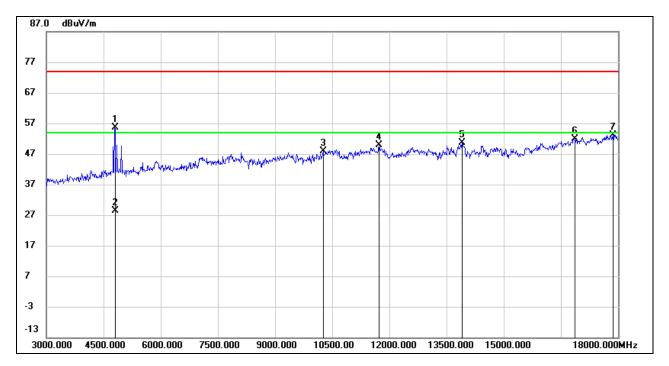


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4810.000	54.20	0.50	54.70	74.00	-19.30	peak
2	4810.000	27.01	0.50	27.51	54.00	-26.49	AVG
3	7215.000	42.23	5.85	48.08	74.00	-25.92	peak
4	11715.000	36.26	12.99	49.25	74.00	-24.75	peak
5	13920.000	34.03	16.17	50.20	74.00	-23.80	peak
6	16845.000	31.80	19.96	51.76	74.00	-22.24	peak
7	17805.000	30.01	23.31	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 (LOW CHANNEL, VERTICAL)

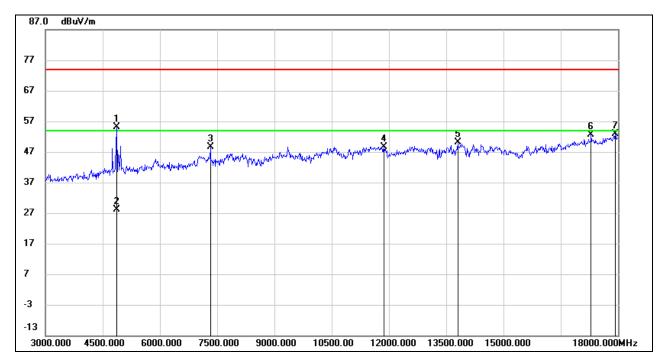


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4810.000	55.06	0.50	55.56	74.00	-18.44	peak
2	4810.000	27.87	0.50	28.37	54.00	-25.63	AVG
3	10260.000	37.20	10.71	47.91	74.00	-26.09	peak
4	11730.000	36.92	13.02	49.94	74.00	-24.06	peak
5	13905.000	34.42	16.20	50.62	74.00	-23.38	peak
6	16860.000	31.85	19.95	51.80	74.00	-22.20	peak
7	17865.000	29.89	23.33	53.22	74.00	-20.78	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)

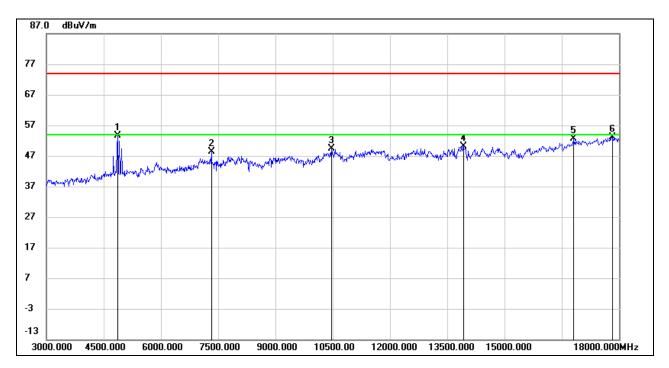


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	54.42	0.78	55.20	74.00	-18.80	peak
2	4880.000	27.23	0.78	28.01	54.00	-25.99	AVG
3	7320.000	42.49	6.14	48.63	74.00	-25.37	peak
4	11865.000	35.52	13.21	48.73	74.00	-25.27	peak
5	13800.000	33.13	17.10	50.23	74.00	-23.77	peak
6	17295.000	31.02	21.71	52.73	74.00	-21.27	peak
7	17925.000	29.39	23.37	52.76	74.00	-21.24	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)

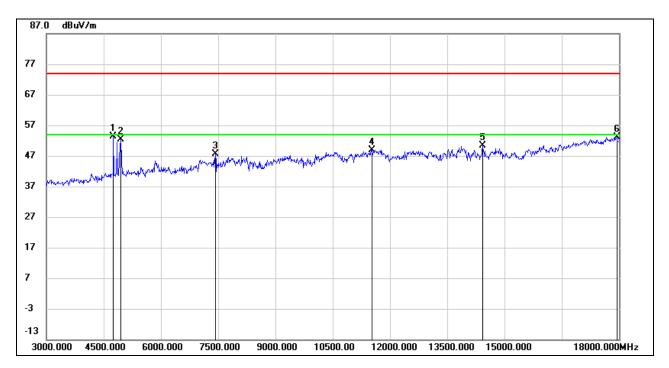


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4880.000	52.95	0.78	53.73	74.00	-20.27	peak
2	7320.000	42.24	6.14	48.38	74.00	-25.62	peak
3	10470.000	38.06	11.25	49.31	74.00	-24.69	peak
4	13920.000	34.08	16.17	50.25	74.00	-23.75	peak
5	16815.000	32.60	19.96	52.56	74.00	-21.44	peak
6	17820.000	29.90	23.30	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. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

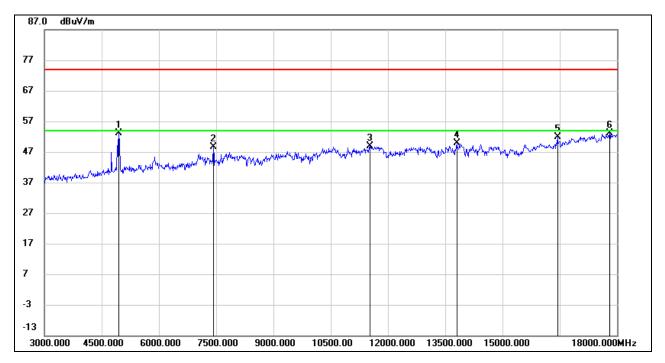


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4755.000	52.99	0.34	53.33	74.00	-20.67	peak
2	4950.000	51.26	1.13	52.39	74.00	-21.61	peak
3	7425.000	41.19	6.39	47.58	74.00	-26.42	peak
4	11535.000	35.57	13.33	48.90	74.00	-25.10	peak
5	14430.000	33.97	16.35	50.32	74.00	-23.68	peak
6	17940.000	29.85	23.39	53.24	74.00	-20.76	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



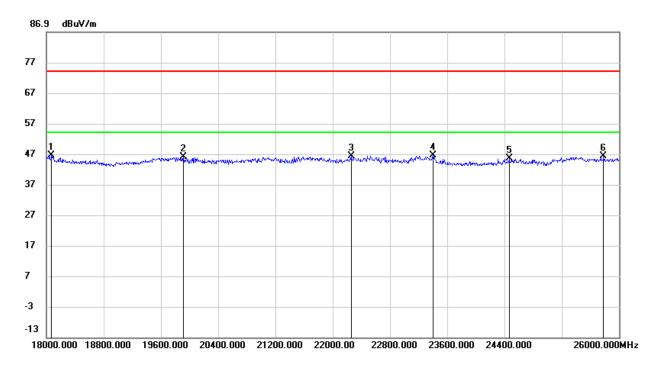
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	52.10	1.13	53.23	74.00	-20.77	peak
2	7425.000	42.28	6.39	48.67	74.00	-25.33	peak
3	11520.000	35.42	13.38	48.80	74.00	-25.20	peak
4	13800.000	32.72	17.10	49.82	74.00	-24.18	peak
5	16440.000	32.96	18.94	51.90	74.00	-22.10	peak
6	17805.000	29.87	23.31	53.18	74.00	-20.82	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



7.5. SPURIOUS EMISSIONS (18~26GHz)

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

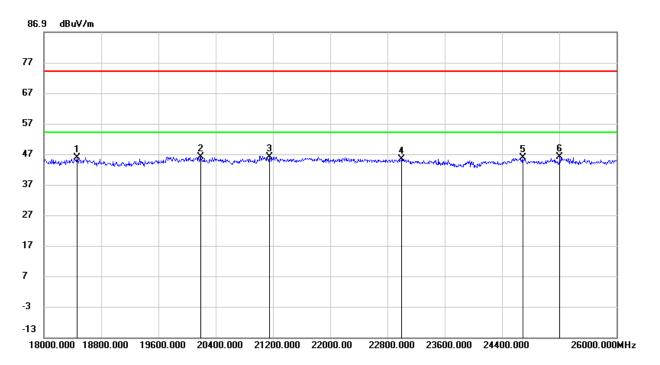


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18072.000	50.55	-4.02	46.53	74.00	-27.47	peak
2	19912.000	50.41	-4.36	46.05	74.00	-27.95	peak
3	22256.000	52.45	-6.06	46.39	74.00	-27.61	peak
4	23400.000	51.42	-4.96	46.46	74.00	-27.54	peak
5	24464.000	48.28	-2.74	45.54	74.00	-28.46	peak
6	25784.000	47.73	-1.49	46.24	74.00	-27.76	peak

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



<u>HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18464.000	50.20	-4.39	45.81	74.00	-28.19	peak
2	20192.000	50.87	-4.76	46.11	74.00	-27.89	peak
3	21152.000	51.56	-5.42	46.14	74.00	-27.86	peak
4	23000.000	50.95	-5.61	45.34	74.00	-28.66	peak
5	24688.000	47.89	-2.11	45.78	74.00	-28.22	peak
6	25208.000	47.13	-1.16	45.97	74.00	-28.03	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.

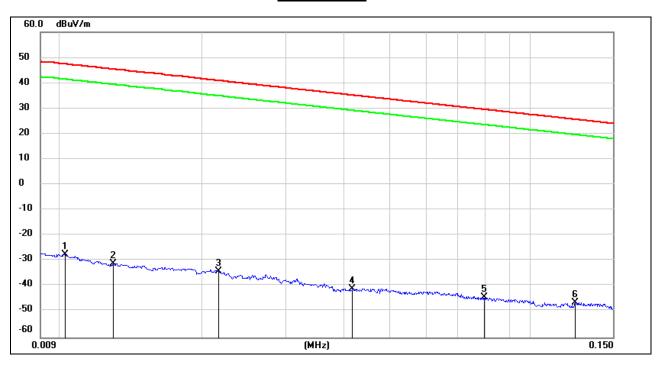
Note: All test modes had been tested, only the worst data record in the report.



7.6. SPURIOUS EMISSIONS BELOW 30MHz

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

9kHz~ 150kHz

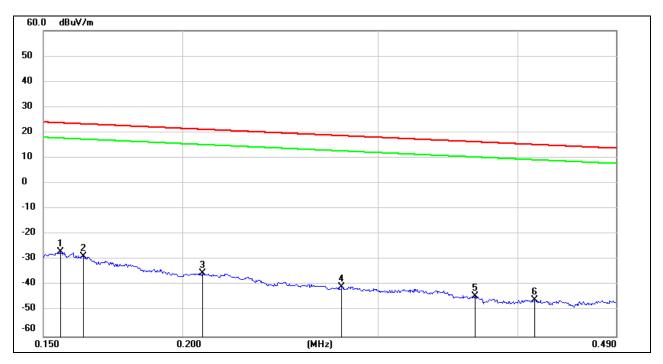


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0102	74.05	-101.40	-27.35	47.43	-74.78	peak
2	0.0129	70.25	-101.38	-31.13	45.39	-76.52	peak
3	0.0216	67.19	-101.35	-34.16	40.91	-75.07	peak
4	0.0417	60.58	-101.44	-40.86	35.20	-76.06	peak
5	0.0796	57.53	-101.63	-44.10	29.58	-73.68	peak
6	0.1246	55.39	-101.72	-46.33	25.70	-72.03	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.



150kHz ~ 490kHz

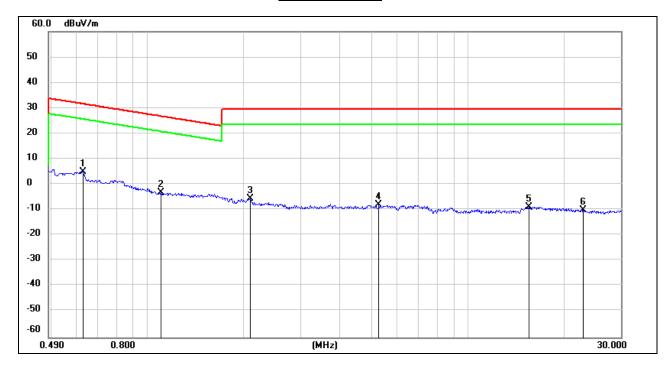


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1554	74.77	-101.65	-26.88	23.77	-50.65	peak
2	0.1630	72.99	-101.65	-28.66	23.36	-52.02	peak
3	0.2084	66.47	-101.73	-35.26	21.22	-56.48	peak
4	0.2782	61.29	-101.83	-40.54	18.71	-59.25	peak
5	0.3662	57.58	-101.93	-44.35	16.33	-60.68	peak
6	0.4142	56.23	-101.98	-45.75	15.26	-61.01	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.



490kHz ~ 30MHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6270	67.15	-62.09	5.06	31.66	-26.60	peak
2	1.1021	59.03	-62.22	-3.19	26.76	-29.95	peak
3	2.0939	56.39	-61.79	-5.40	29.54	-34.94	peak
4	5.2705	53.54	-61.45	-7.91	29.54	-37.45	peak
5	15.4809	52.20	-61.00	-8.80	29.54	-38.34	peak
6	22.8881	50.61	-60.61	-10.00	29.54	-39.54	peak

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

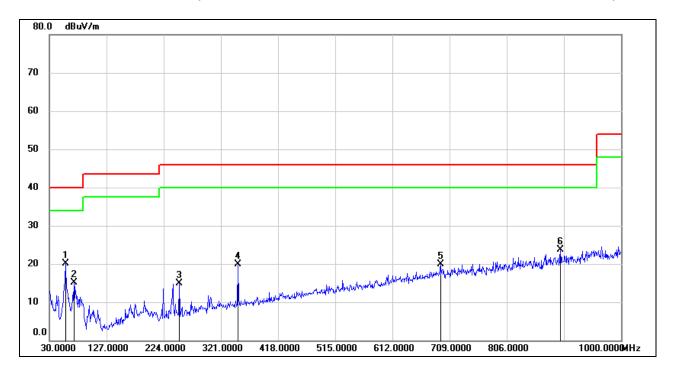
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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 (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



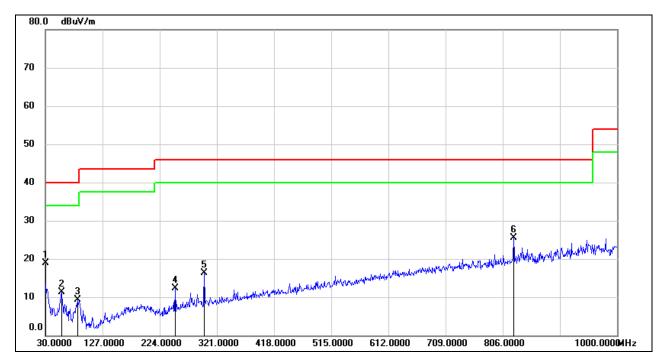
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	57.1600	38.96	-18.90	20.06	40.00	-19.94	QP
qp	71.7100	35.14	-19.94	15.20	40.00	-24.80	QP
3	250.1900	31.19	-16.34	14.85	46.00	-31.15	QP
4	350.1000	33.40	-13.52	19.88	46.00	-26.12	QP
5	693.4800	26.97	-7.14	19.83	46.00	-26.17	QP
6	897.1800	28.02	-4.28	23.74	46.00	-22.26	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 (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	36.16	-17.24	18.92	40.00	-21.08	QP
2	57.1600	30.28	-18.90	11.38	40.00	-28.62	QP
3	84.3200	30.17	-20.81	9.36	40.00	-30.64	QP
4	250.1900	28.71	-16.34	12.37	46.00	-33.63	QP
5	299.6600	30.72	-14.39	16.33	46.00	-29.67	QP
6	824.4300	30.64	-5.11	25.53	46.00	-20.47	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.



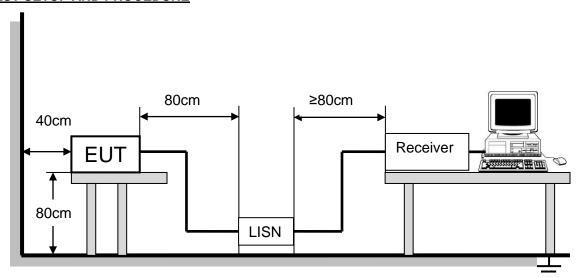
8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

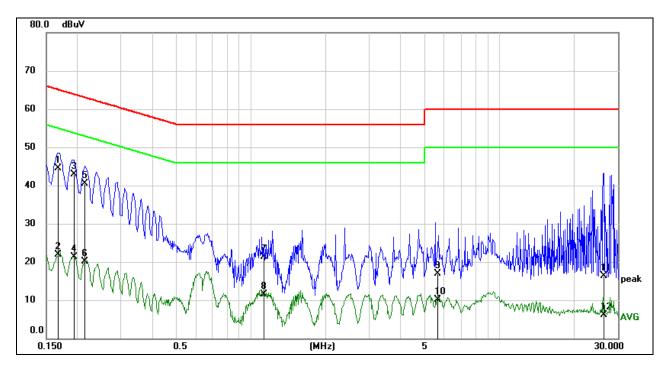


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



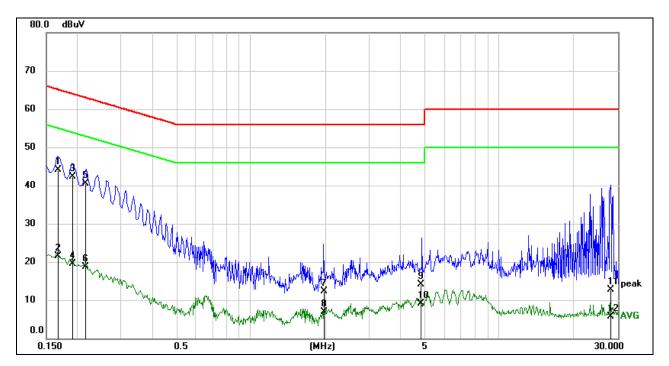
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1669	34.90	9.61	44.51	65.11	-20.60	QP
2	0.1669	12.32	9.61	21.93	55.11	-33.18	AVG
3	0.1927	33.22	9.60	42.82	63.92	-21.10	QP
4	0.1927	11.65	9.60	21.25	53.92	-32.67	AVG
5	0.2144	30.91	9.60	40.51	63.03	-22.52	QP
6	0.2144	10.47	9.60	20.07	53.03	-32.96	AVG
7	1.1298	11.62	9.61	21.23	56.00	-34.77	QP
8	1.1298	1.83	9.61	11.44	46.00	-34.56	AVG
9	5.6262	7.26	9.69	16.95	60.00	-43.05	QP
10	5.6262	0.51	9.69	10.20	50.00	-39.80	AVG
11	26.4815	6.37	9.91	16.28	60.00	-43.72	QP
12	26.4815	-3.80	9.91	6.11	50.00	-43.89	AVG

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1675	34.53	9.60	44.13	65.08	-20.95	QP
2	0.1675	12.00	9.60	21.60	55.08	-33.48	AVG
3	0.1917	32.73	9.60	42.33	63.96	-21.63	QP
4	0.1917	9.98	9.60	19.58	53.96	-34.38	AVG
5	0.2148	30.84	9.60	40.44	63.02	-22.58	QP
6	0.2148	9.09	9.60	18.69	53.02	-34.33	AVG
7	1.9720	2.66	9.63	12.29	56.00	-43.71	QP
8	1.9720	-2.73	9.63	6.90	46.00	-39.10	AVG
9	4.8347	4.53	9.67	14.20	56.00	-41.80	QP
10	4.8347	-0.57	9.67	9.10	46.00	-36.90	AVG
11	28.1953	2.80	9.95	12.75	60.00	-47.25	QP
12	28.1953	-4.17	9.95	5.78	50.00	-44.22	AVG

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All test mode has been tested, only the worst data record in the report



9. 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