

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

TOY Transmitter

MODEL NUMBER: 43HCW

FCC ID: G6D43HCW

REPORT NUMBER: 4789828122-1

ISSUE DATE: February 25, 2021

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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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	02/25/2021	Initial Issue	



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Summary of Test Results Test Items **FCC Rules Test Results** Clause 20dB Bandwidth and 99% 1 CFR 47 FCC §15.215 (c) Pass Occupied Bandwidth CFR 47 FCC §15.249 (a)(d)(e) 2 Radiated Emission Pass CFR 47 FCC §15.205 and §15.209 CFR 47 FCC §15.203 3 Antenna Requirement 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.



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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: 43HCW

Sample Received Date: February 03, 2021

Sample Status: Normal Sample ID: 2102003

Date of Tested: February 04, 2021~ February 24, 2021

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

Prepared By:

Checked By:

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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 and 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)
A 114 41	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation	has been registered and fully described in a report filed with ISED. The
Certificate	Company Number is 21320 and the test lab Conformity Assessment Body
	Identifier (CABID) is CN0046.
	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
	Officiality Roofil B, the Vool registration No. is C-20012 and 1-20011

Note:

- 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.



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4. CALIBRATION AND UNCERTAINTY

MEASURING INSTRUMENT CALIBRATION 4.1.

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.



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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	TOY Transmitter			
EUT Description	EUT Description The EUT is a wireless remote controller.			
Model	43HCW			
Draduat Description	Operation Frequency	2410 MHz ~ 2473 MHz		
Product Description	Modulation Type GFSK			
Battery	DC 4.5 V			

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max Peak field strength (dBµV/m)
2473	32[32]	93.95

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	11	2429	21	2450	31	2469
2	2414	12	2430	22	2452	32	2473
3	2415	13	2431	23	2454	/	/
4	2416	14	2433	24	2456	/	/
5	2417	15	2434	25	2458	/	/
6	2418	16	2439	26	2462	/	/
7	2419	17	2441	27	2464	/	/
8	2421	18	2442	28	2465	/	/
9	2426	19	2444	29	2466	/	/
10	2428	20	2446	30	2467	/	/

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2410~ 2473	Wire Antenna	1

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

5.5. TEST CHANNEL CONFIGURATION

Test Mode Test Channel		Frequency
GFSK	CH 1(Low Channel), CH 18(MID Channel), CH 32(High Channel)	2410MHz, 2442MHz, 2473MHz



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THE WORSE CASE POWER SETTING PARAMETER 5.6.

The Worse Case Power Setting Parameter under 2410 MHz ~ 2473 MHz Band						
Test Soft	Test Software Version /					
Modulation Type	Transmit Antenna	Test Channel				
Modulation Type	Number	CH 1	CH 18	CH 32		
GFSK	1	Default	Default	Default		

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests		
Relative Humidity	lative Humidity 55 ~ 65%		
Atmospheric Pressure:	1025Pa		
Temperature	TN	22 ~ 28°C	
	VL	/	
Voltage:	VN	DC 4.5 V	
	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

SUPPORT EQUIPMENT

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

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

ACCESSORY

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

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

	Radiated Emissions							
			In	strument				
Used	Equipment	Manufacturer	Mod	el No.	Seria	al No.	Last Cal.	Next Cal.
	MXE EMI Receiver	KESIGHT	N90)38A	MY564	100036	Nov. 12, 2020	Nov. 11, 2021
\checkmark	Hybrid Log Periodic Antenna	TDK	HLP-	3003C	130	960	Aug. 11, 2018	Aug. 10, 2021
V	Preamplifier	HP	84	47D	2944A	.09099	Nov. 12, 2020	Nov. 11, 2021
V	EMI Measurement Receiver	R&S	ES	R26	101	377	Nov. 12, 2020	Nov. 11, 2021
	Horn Antenna	TDK	HRN	-0118	130	939	Sept. 17, 2018	Sept. 17, 2021
	Preamplifier	TDK	PA-02	2-0118	_	-305- 067	Nov. 20, 2020	Nov. 19, 2021
V	Horn Antenna	Schwarzbeck	BBH	A9170	#6	91	Aug. 11, 2018	Aug. 11, 2021
	Preamplifier	TDK	PA-	02-2	_	-307- 003	Nov. 12, 2020	Nov. 11, 2021
	Preamplifier	TDK	PA-	02-3		-308- 002	Nov. 12, 2020	Nov. 11, 2021
	Loop antenna	Schwarzbeck	15	19B	000	800	Jan.17, 2019	Jan.17,2022
	Preamplifier	TDK	PA-02-0	001-3000		-302- 050	Nov. 12, 2020	Nov. 11, 2021
	Preamplifier	Mini-Circuits	ZX60-8	3LN-S+	SUP01	201941	Nov. 20, 2020	Nov. 19, 2021
V	High Pass Filter	Wi	WHKX10-2700- 3000-18000- 40SS		2	3	Nov. 12, 2020	Nov. 11, 2021
Software								
Used	De	escription		Manufa	cturer	1	Name	Version
V		vare for Radiat sturbance	ed	Fara	ad	E	Z-EMC	Ver. UL-3A1



6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

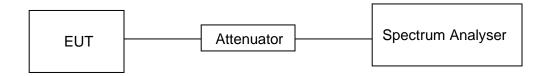
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	22.8°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 4.5 V

RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	32.64	100	0.3264	32.64	-9.72

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

Where: x is Duty Cycle



ON TIME AND DUTY CYCLE MID CH PLOT



Date: 4.FEB.2021 10:08:32

ON TIME AND DUTY CYCLE MID CH PLOT-2



Date: 4.FEB.2021 10:10:19



ON TIME AND DUTY CYCLE MID CH PLOT-2



Date: 4.FEB.2021 10:11:04

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	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	

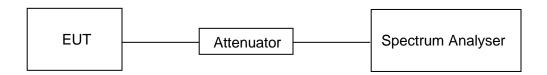
TEST PROCEDURE

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

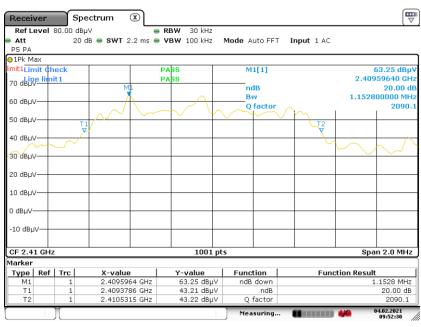
Temperature	22.8°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 4.5 V



RESULTS

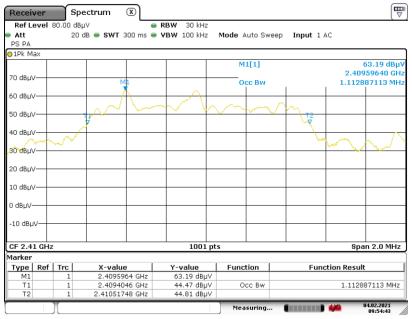
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2410	1.1528	1.1129	PASS

20 dB BANDWIDTH LOW CH



Date: 4.FEB.2021 09:52:31

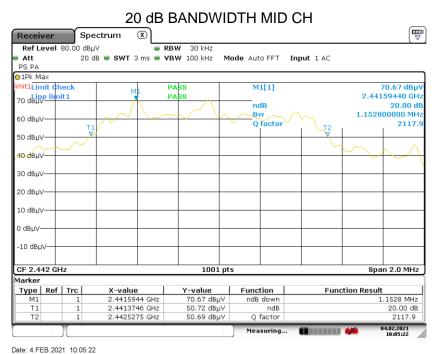
99% OCCUPIED BANDWIDTH LOW CH



Date: 4.FEB.2021 09:54:43

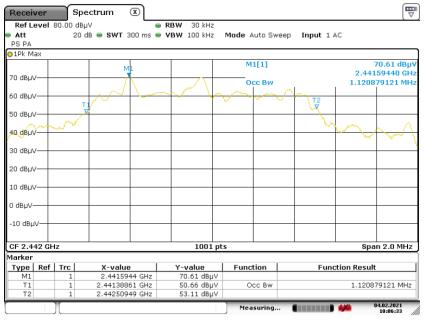


Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2442	1.1528	1.1209	PASS



MC. 4.1 ED.2021 10.00.22

99% OCCUPIED BANDWIDTH MID CH



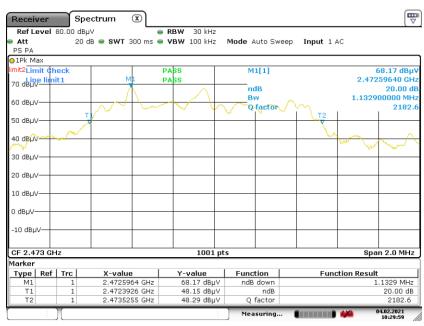
Date: 4.FEB.2021 10:06:32



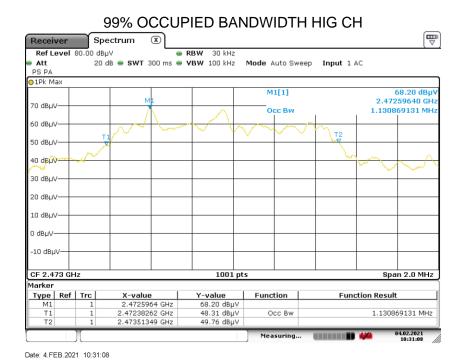
 Frequency (MHz)
 20dB bandwidth (MHz)
 99% bandwidth (MHz)
 Result

 2473
 1.1329
 1.1309
 PASS

20 dB BANDWIDTH HIG CH



Date: 4.FEB.2021 10:29:59



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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 (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m					
(IVITIZ)	(u v/iii) at 3 iii	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	300	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:

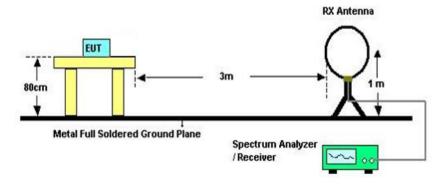
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218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



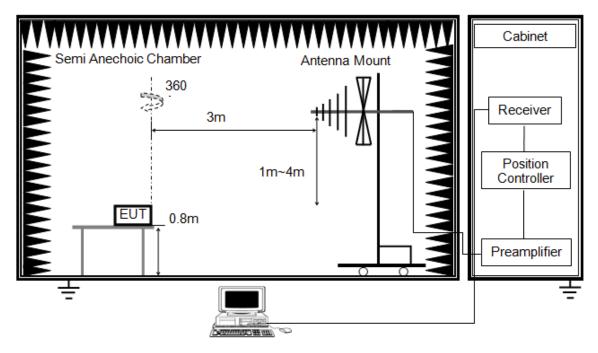
The setting of the spectrum analyser

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



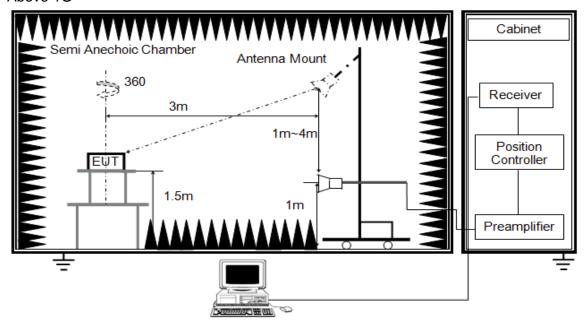
The setting of the spectrum analyser

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. (For Bandedge and Field strength)

RBW	≥ OBW (2MHz)
IV/R/W	PEAK: ≥ 3×RBW AVG: see note 5
Sweep	Auto
Detector	Peak
Trace	Max hold

The setting of the spectrum analyser. (For Spurious emissions)

RBW	1MHz
IV/RW/	PEAK: 3MHz AVG: see note 5
Sweep	Auto
Detector	Peak
Trace	Max hold

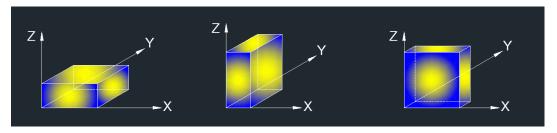
- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject filter are used for the test in order 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.

6. For measurements Bandedge above 1 GHz, the resolution bandwidth is set to 2 MHz, then the video bandwidth is set to $\ge 3 \times RBW$ for peak measurements. This test results are worse than using 1MHz resolution bandwidth, so if the result is pass, the test is considered to meet the standard requirements.

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.

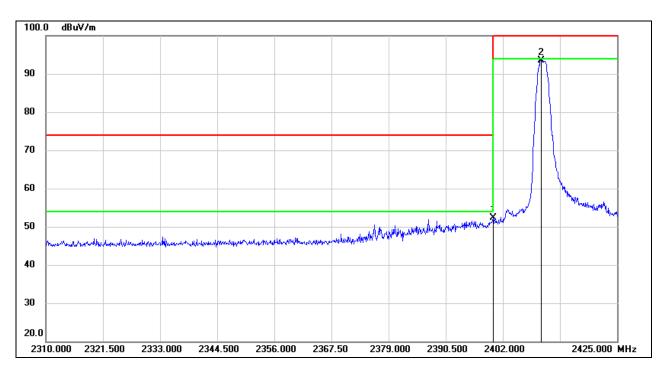
TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	DC 4.5 V



7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

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

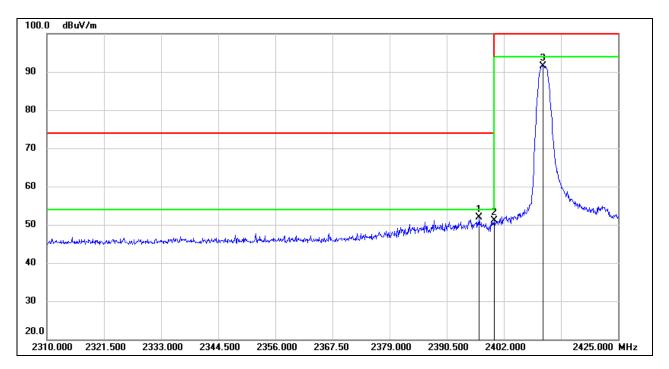


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2400.000	40.59	11.66	52.25	74.00	-21.75	peak
2	2409.705	81.75	11.69	93.44	114.00	-20.56	peak

- 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.



$\frac{\text{RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL,}}{\text{VERTICAL})}$

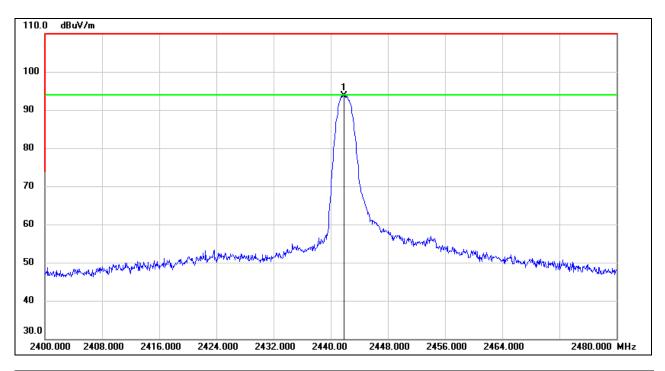


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.055	40.27	11.64	51.91	74.00	-22.09	peak
2	2400.000	39.37	11.66	51.03	74.00	-22.97	peak
3	2409.935	79.79	11.69	91.48	114.00	-22.52	peak

- 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, HORIZONTAL)

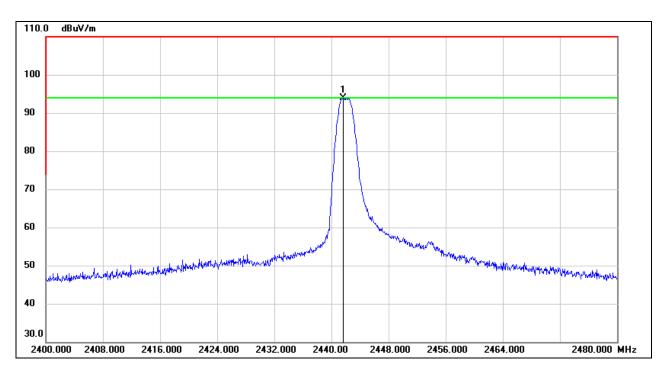


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.840	81.84	11.82	93.66	114.00	-20.34	peak

- 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)

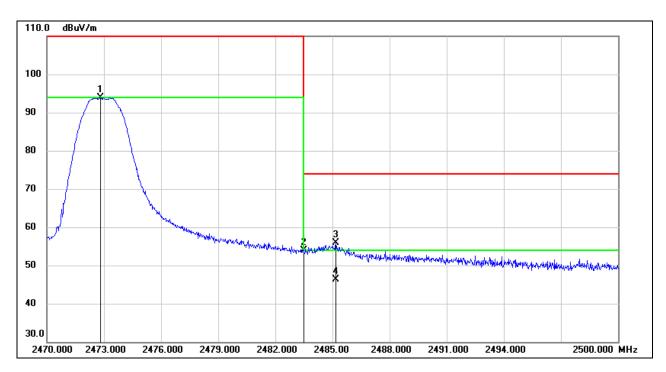


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.600	82.04	11.81	93.85	114.00	-20.15	peak

- 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)

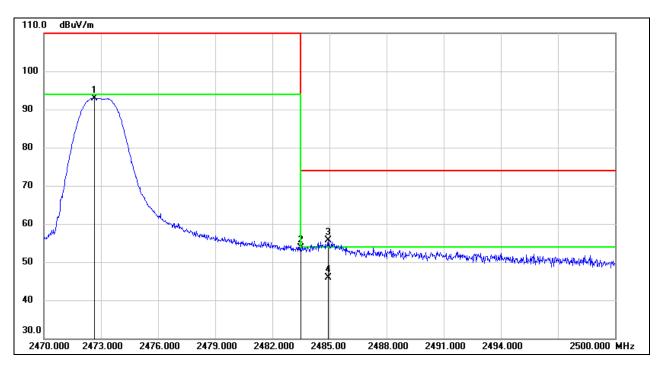


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2472.820	82.02	11.93	93.95	114.00	-20.05	peak
2	2483.500	41.84	11.97	53.81	74.00	-20.19	peak
3	2485.180	43.94	11.98	55.92	74.00	-18.08	peak
4	2485.180	34.22	11.98	46.20	54.00	-7.80	AVG

- 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)



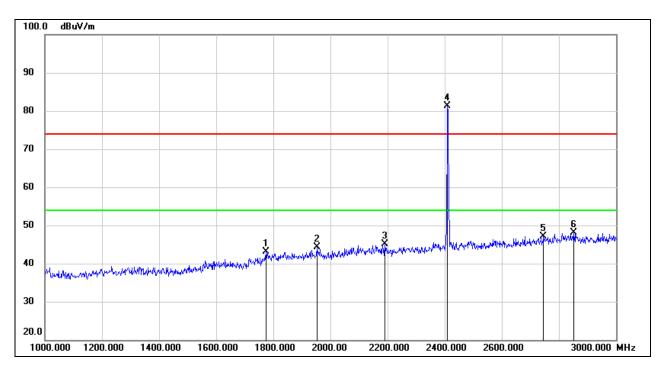
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2472.640	81.03	11.93	92.96	114.00	-21.04	peak
2	2483.500	41.70	11.97	53.67	74.00	-20.33	peak
3	2484.940	43.66	11.98	55.64	74.00	-18.36	peak
4	2484.940	33.94	11.98	45.92	54.00	-8.08	AVG

- 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)



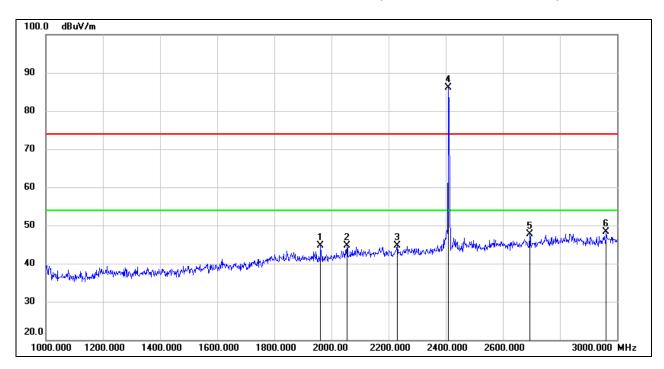
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1774.000	33.80	9.25	43.05	74.00	-30.95	peak
2	1952.000	34.46	9.92	44.38	74.00	-29.62	peak
3	2190.000	34.03	11.00	45.03	74.00	-28.97	peak
4	2410.000	69.64	11.69	81.33	/	/	fundamental
5	2746.000	34.30	12.85	47.15	74.00	-26.85	peak
6	2852.000	34.81	13.36	48.17	74.00	-25.83	peak

Note: 1. Peak Result = 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.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



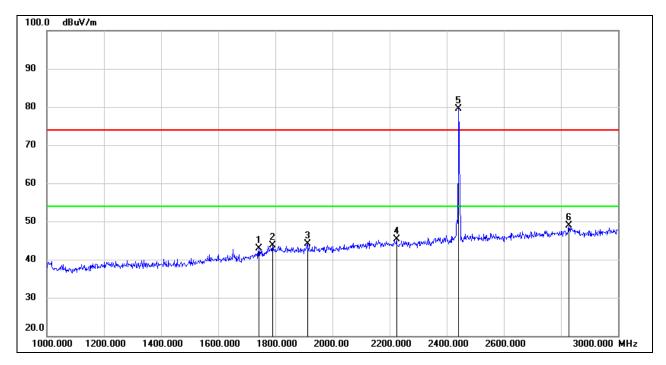
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1962.000	34.70	9.94	44.64	74.00	-29.36	peak
2	2054.000	34.26	10.44	44.70	74.00	-29.30	peak
3	2230.000	33.75	11.01	44.76	74.00	-29.24	peak
4	2410.000	74.35	11.69	86.04	/	/	fundamental
5	2694.000	35.22	12.48	47.70	74.00	-26.30	peak
6	2962.000	34.38	13.85	48.23	74.00	-25.77	peak

Note: 1. Peak Result = 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.



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	1742.000	34.09	8.75	42.84	74.00	-31.16	peak
2	1790.000	34.27	9.49	43.76	74.00	-30.24	peak
3	1912.000	34.23	9.82	44.05	74.00	-29.95	peak
4	2224.000	34.25	11.01	45.26	74.00	-28.74	peak
5	2442.000	67.73	11.82	79.55	/	/	fundamental
6	2828.000	35.56	13.30	48.86	74.00	-25.14	peak

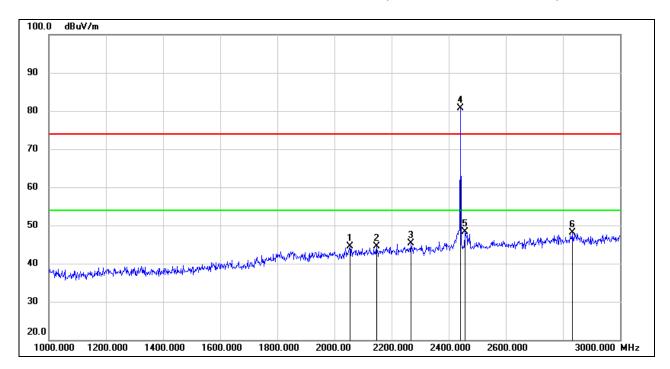
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



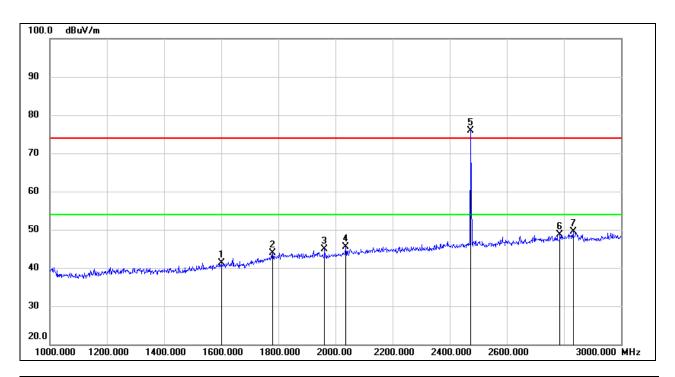
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2054.000	34.00	10.44	44.44	74.00	-29.56	peak
2	2148.000	33.61	10.90	44.51	74.00	-29.49	peak
3	2268.000	34.34	11.00	45.34	74.00	-28.66	peak
4	2442.000	68.79	11.82	80.61	/	/	fundamental
5	2458.000	36.46	11.88	48.34	74.00	-25.66	peak
6	2834.000	34.81	13.32	48.13	74.00	-25.87	peak

Note: 1. Peak Result = 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.



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	1600.000	33.47	7.91	41.38	74.00	-32.62	peak
2	1780.000	34.48	9.34	43.82	74.00	-30.18	peak
3	1962.000	34.88	9.94	44.82	74.00	-29.18	peak
4	2036.000	35.26	10.29	45.55	74.00	-28.45	peak
5	2473.000	63.94	11.93	75.87	/	/	fundamental
6	2786.000	35.59	13.14	48.73	74.00	-25.27	peak
7	2832.000	36.28	13.31	49.59	74.00	-24.41	peak

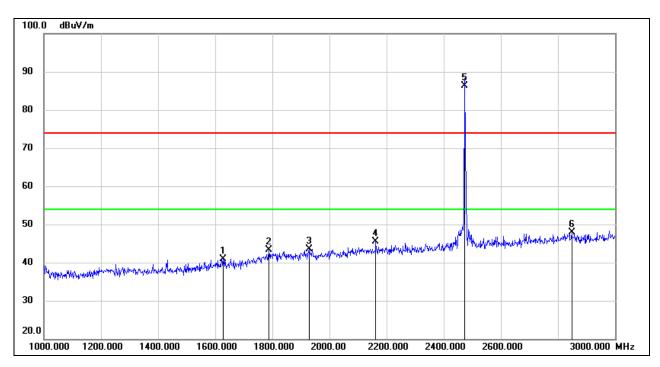
Note: 1. Peak Result = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



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	1628.000	32.99	7.97	40.96	74.00	-33.04	peak
2	1788.000	33.92	9.46	43.38	74.00	-30.62	peak
3	1928.000	33.73	9.86	43.59	74.00	-30.41	peak
4	2162.000	34.66	10.93	45.59	74.00	-28.41	peak
5	2473.000	74.35	11.93	86.28	/	/	fundamental
6	2848.000	34.56	13.35	47.91	74.00	-26.09	peak

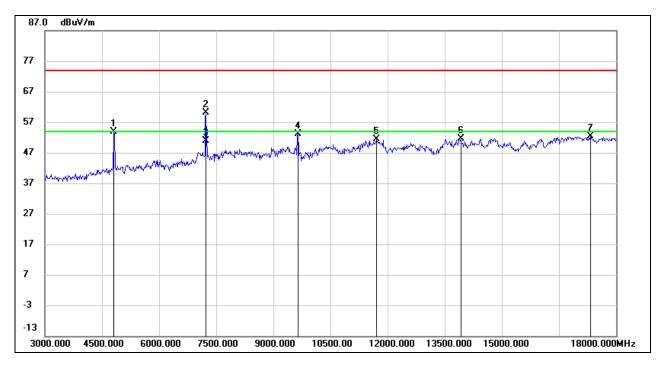
Note: 1. Peak Result = Reading Level + Correct Factor.

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



7.4. SPURIOUS EMISSIONS (3~18GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

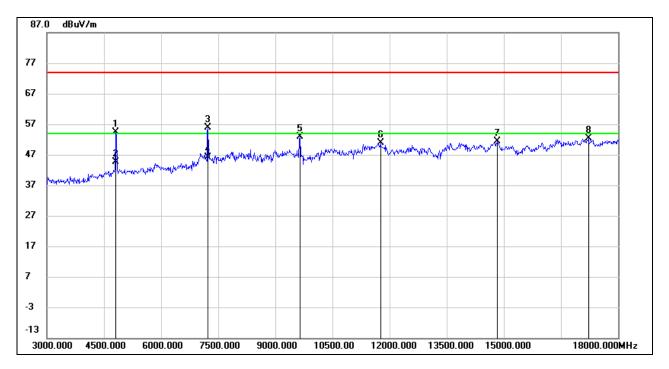


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	52.39	1.38	53.77	74.00	-20.23	peak
2	7230.000	52.78	7.28	60.06	74.00	-13.94	peak
3	7230.000	43.06	7.28	50.34	54.00	-3.66	AVG
4	9645.000	42.39	10.81	53.20	74.00	-20.80	peak
5	11715.000	36.11	15.34	51.45	74.00	-22.55	peak
6	13920.000	34.16	17.55	51.71	74.00	-22.29	peak
7	17325.000	29.90	22.42	52.32	74.00	-21.68	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)

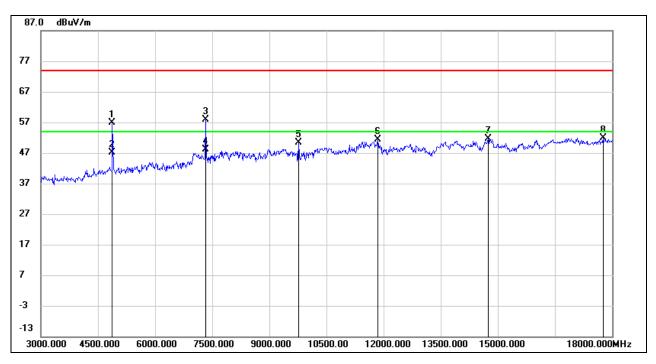


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	53.06	1.38	54.44	74.00	-19.56	peak
2	4815.000	43.34	1.38	44.72	54.00	-9.28	AVG
3	7230.000	48.65	7.28	55.93	74.00	-18.07	peak
4	7230.000	38.93	7.28	46.21	54.00	-7.79	AVG
5	9645.000	42.18	10.81	52.99	74.00	-21.01	peak
6	11760.000	35.52	15.29	50.81	74.00	-23.19	peak
7	14835.000	33.67	17.80	51.47	74.00	-22.53	peak
8	17220.000	30.22	22.12	52.34	74.00	-21.66	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)

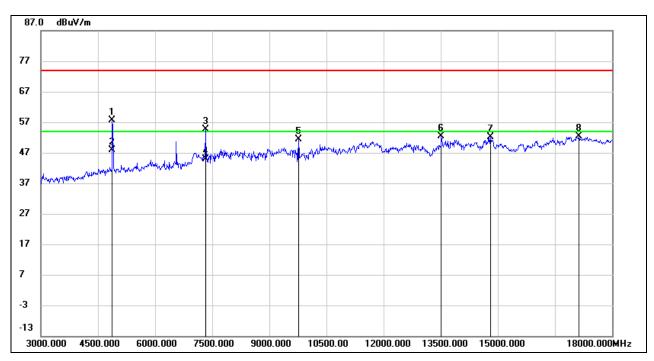


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	55.53	1.32	56.85	74.00	-17.15	peak
2	4875.000	45.81	1.32	47.13	54.00	-6.87	AVG
3	7320.000	50.61	7.28	57.89	74.00	-16.11	peak
4	7320.000	40.89	7.28	48.17	54.00	-5.83	AVG
5	9765.000	40.18	10.22	50.40	74.00	-23.60	peak
6	11850.000	36.12	15.38	51.50	74.00	-22.50	peak
7	14745.000	33.90	17.84	51.74	74.00	-22.26	peak
8	17760.000	27.99	23.82	51.81	74.00	-22.19	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)

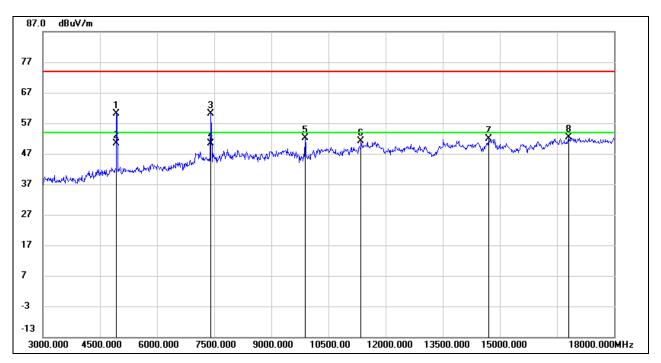


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	56.40	1.32	57.72	74.00	-16.28	peak
2	4875.000	46.68	1.32	48.00	54.00	-6.00	AVG
3	7320.000	47.41	7.28	54.69	74.00	-19.31	peak
4	7320.000	37.69	7.28	44.97	54.00	-9.03	AVG
5	9765.000	41.12	10.22	51.34	74.00	-22.66	peak
6	13515.000	35.10	17.19	52.29	74.00	-21.71	peak
7	14805.000	34.12	18.00	52.12	74.00	-21.88	peak
8	17130.000	30.50	21.92	52.42	74.00	-21.58	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)

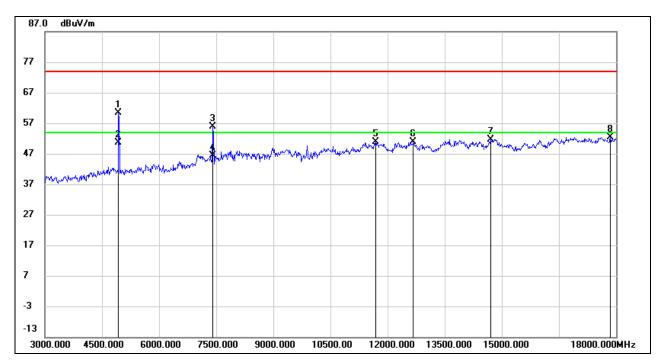


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	58.43	1.59	60.02	74.00	-13.98	peak
2	4935.000	48.71	1.59	50.30	54.00	-3.70	AVG
3	7410.000	52.17	8.02	60.19	74.00	-13.81	peak
4	7410.000	42.45	8.02	50.47	54.00	-3.53	AVG
5	9885.000	41.22	10.96	52.18	74.00	-21.82	peak
6	11355.000	36.71	14.34	51.05	74.00	-22.95	peak
7	14715.000	34.22	17.74	51.96	74.00	-22.04	peak
8	16815.000	31.44	20.84	52.28	74.00	-21.72	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)



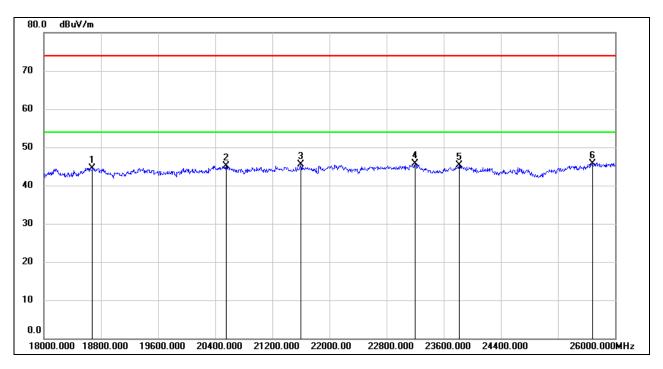
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	58.75	1.59	60.34	74.00	-13.66	peak
2	4935.000	49.03	1.59	50.62	54.00	-3.38	AVG
3	7410.000	47.98	8.02	56.00	74.00	-18.00	peak
4	7410.000	38.26	8.02	46.28	54.00	-7.72	AVG
5	11685.000	35.59	15.26	50.85	74.00	-23.15	peak
6	12675.000	35.22	15.66	50.88	74.00	-23.12	peak
7	14715.000	33.90	17.74	51.64	74.00	-22.36	peak
8	17850.000	28.48	23.97	52.45	74.00	-21.55	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 (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

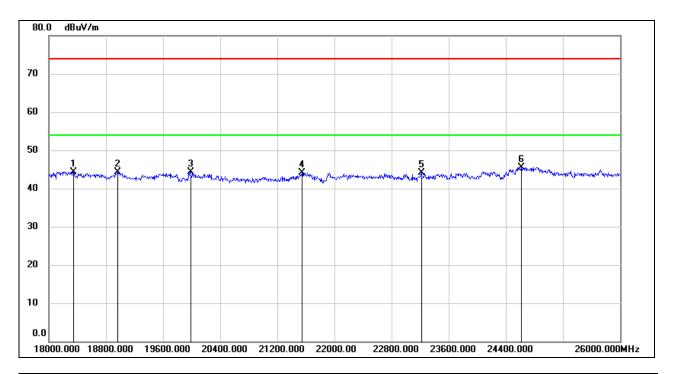


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18680.000	49.95	-5.38	44.57	74.00	-29.43	peak
2	20552.000	50.36	-5.30	45.06	74.00	-28.94	peak
3	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
4	23200.000	49.15	-3.38	45.77	74.00	-28.23	peak
5	23816.000	48.39	-3.08	45.31	74.00	-28.69	peak
6	25680.000	46.71	-0.93	45.78	74.00	-28.22	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 (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18344.000	49.84	-5.44	44.40	74.00	-29.60	peak
2	18960.000	49.51	-5.25	44.26	74.00	-29.74	peak
3	19984.000	49.71	-5.44	44.27	74.00	-29.73	peak
4	21544.000	48.76	-4.63	44.13	74.00	-29.87	peak
5	23216.000	47.51	-3.38	44.13	74.00	-29.87	peak
6	24616.000	47.80	-2.33	45.47	74.00	-28.53	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.

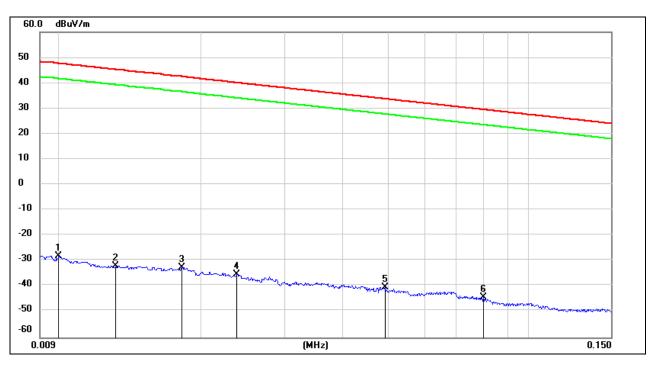
Note: All test modes had been tested, only the worst data record in the report.



7.6. SPURIOUS EMISSIONS BELOW 30MHz

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

9kHz~ 150kHz

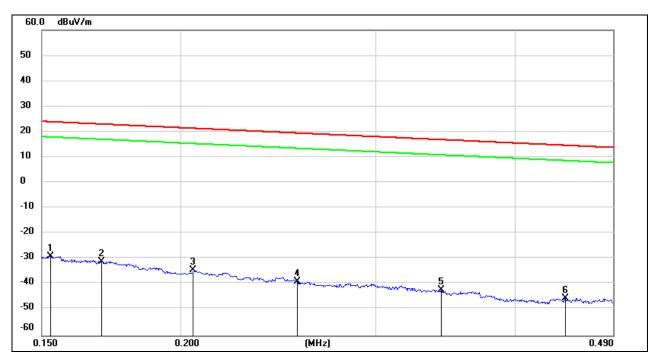


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	73.22	-101.40	-28.18	47.6	-75.78	peak
2	0.0131	69.47	-101.38	-31.91	45.25	-77.16	peak
3	0.0181	68.85	-101.36	-32.51	42.45	-74.96	peak
4	0.0238	66.06	-101.36	-35.3	40.07	-75.37	peak
5	0.0492	61.05	-101.47	-40.42	33.76	-74.18	peak
6	0.0801	57.45	-101.63	-44.18	29.53	-73.71	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

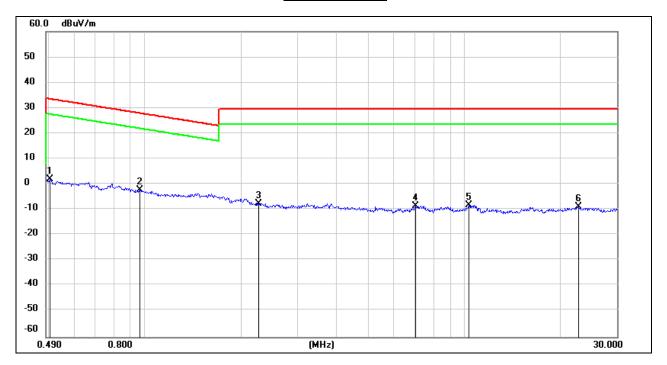


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1527	72.80	-101.64	-28.84	23.92	-52.76	peak
2	0.1696	70.74	-101.67	-30.93	23.02	-53.95	peak
3	0.2053	67.29	-101.73	-34.44	21.35	-55.79	peak
4	0.2545	62.90	-101.80	-38.9	19.49	-58.39	peak
5	0.3431	59.67	-101.90	-42.23	16.89	-59.12	peak
6	0.4444	56.58	-102.01	-45.43	14.65	-60.08	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	0.5039	63.94	-62.07	1.87	33.56	-31.69	peak
2	0.9657	59.89	-62.25	-2.36	27.9	-30.26	peak
3	2.2736	54.19	-61.75	-7.56	29.54	-37.10	peak
4	7.0411	52.56	-61.21	-8.65	29.54	-38.19	peak
5	10.3168	52.48	-60.81	-8.33	29.54	-37.87	peak
6	22.7700	51.67	-60.62	-8.95	29.54	-38.49	peak

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

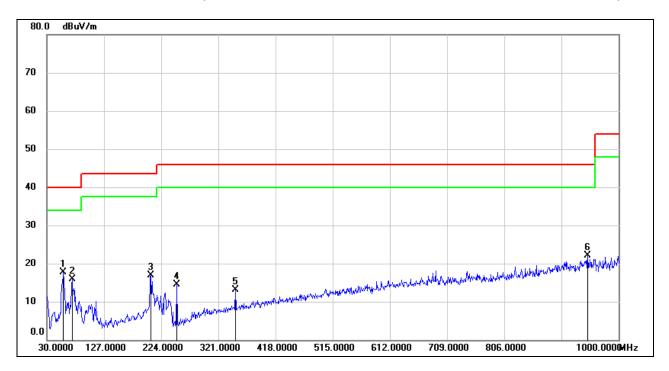
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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	58.1300	38.25	-20.55	17.70	40.00	-22.30	QP
2	72.6800	36.64	-20.76	15.88	40.00	-24.12	QP
3	206.5399	33.78	-16.97	16.81	43.50	-26.69	QP
4	250.1900	33.39	-18.91	14.48	46.00	-31.52	QP
5	350.1000	27.46	-14.32	13.14	46.00	-32.86	QP
6	947.6200	26.62	-4.43	22.19	46.00	-23.81	QP

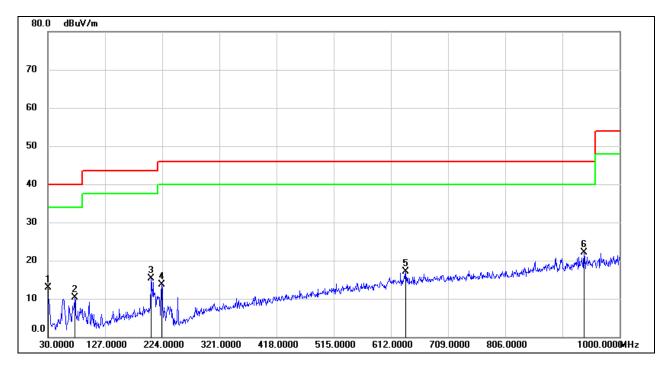
Note: 1. Result Level = Read Level + Correct Factor.

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	31.87	-18.94	12.93	40.00	-27.07	QP
2	75.5899	31.25	-20.99	10.26	40.00	-29.74	QP
3	205.5700	32.25	-16.88	15.37	43.50	-28.13	QP
4	223.0300	32.12	-18.32	13.80	46.00	-32.20	QP
5	637.2199	26.13	-9.07	17.06	46.00	-28.94	QP
6	939.8600	26.56	-4.49	22.07	46.00	-23.93	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. 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.

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