

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

MAX X20 Micro Drone, Neutron Plam Drone with 720P Camer

MODEL NUMBER: VL-4400,VL-4402,VL-4403, VL-4404,VL-4405,PL-1800, PL-1801,PL-1802,PL-1803,PL-1804,PL-1805,PL-1806,PL-1807,PL-1808,PL-1809, PL-1330, PL-1331, PL-1332, PL-1333, PL-1334, PL-1335, PL-1336, PL-1337, PL-1338, PL-1339, KH-2151, KH-2152, KH-2153, KH-2154,VL-3550,VL-3551,VL-3552

FCC ID: 2ASK3VL-4400T

REPORT NUMBER: 4788921489-3

ISSUE DATE: March 21, 2019

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, People's Republic of China

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

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	03/21/2019	Initial Issue	



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



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1. ATTESTATION OF TEST RESULTS

Applicant Information Company Name: Address:	AMAX INDUSTRIAL GROUP CHINA CO.,LTD 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 Description	
EUT Name:	MAX X20 Micro Drone, Neutron Plam Drone with 720P Camer
Model:	VL-4403
Series Models:	Please refer to page 8 clause 5.1
Brand Name:	/
Sample Status:	Normal
Sample ID:	2150351
Sample Received Date:	March 18, 2019
Date of Tested:	March 18, 2019 ~ March 21, 2019

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

Prepared By:

Brang Donny

Sheming lies

Checked By:

Denny Huang Engineer Project Associate Approved By:

Shawn Wen Laboratory Leader

fephentus

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 C63.10-2014

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 Delcaration of Conformity (DoC) and Certification
Accreditation Certificate	rules IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011

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
- The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty	
Conduction emission	3.62dB	
Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB	
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB	
Radiation Emission test	5.78dB (1GHz-18Gz)	
(1GHz to 26GHz)(include Fundamental emission)	5.23dB (18GHz-26Gz)	
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	MAX X20 Micro Drone, Neutron Plam Drone with 720P Camer		
EUT Description	The EUT is a wireless remote cont	roller for drone.	
Model	VL-4403		
Series Model	VL-4400,VL-4402,VL-4403, VL-4404,VL-4405,PL-1800, PL-1801,PL-1802,PL-1803,PL-1804,PL-1805,PL-1806,PL-1807,PL- 1808,PL-1809, PL-1330, PL-1331, PL-1332, PL-1333, PL-1334, PL-1335, PL- 1336, PL-1337, PL-1338, PL-1339, KH-2151, KH-2152, KH-2153, KH-2154,VL- 3550,VL-3551,VL-3552		
Model Difference	All the same except for the model name and product name.		
Product Description	Operation Frequency	2415 MHz ~ 2472 MHz	
	Modulation Type	GFSK	
Battery	Battery DC 3.0V		

5.2. MAXIMUM OUTPUT POWER

Frequency Range (MHz) Number of Transmit Chains (NTX)		Frequency (MHz)	Channel Number	Max Power (dBµV/m)
2415 ~ 2472	1	2450	3[12]	89.17

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2415	4	2454	7	2462	10	2468
2	2435	5	2456	8	2463	11	2470
3	2450	6	2460	9	2466	12	2472

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant. Frequency (MHz)		Antenna Type	Antenna Gain (dBi)	
1	2415 ~ 2472	Wire Antenna	2	

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

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5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1, CH 3, CH 12	2415MHz, 2450MHz, 2472MHz

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2402 ~ 2483.5MHz Band							
Test Se	oftware	/					
Modulation Type	Transmit Antenna	Test Channel					
	Number	CH 1	CH 3	CH 12			
GFSK	1	Default	Default	Default			

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests		
Relative Humidity	55 ~ 65%		
Atmospheric Pressure:	1025Pa		
Temperature	TN	22 ~ 28°C	
	VL	N/A	
Voltage :	VN	DC 3.0 V	
	VH	N/A	

Note: VL= Lower Extreme Test Voltage VN= Nominal Voltage VH= Upper Extreme Test Voltage TN= Normal Temperature



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST



Note: New battery was used during all tests.



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions										
		CO		strument	510115					
llsod	Used Equipment Manufacturer Model No. Serial No. Last Cal. Next Ca									
<u>U3Cu</u>	EMI Test Receiver	R&S		ESR3	10196			Dec.10,2019		
	Two-Line V-									
	Network	R&S	E	NV216	10198	3	Dec.10,2018	Dec.10,2019		
V	Artificial Mains Networks	Schwarzbeck	NS	LK 8126	812646	65	Dec.10,2018	Dec.10,2019		
			S	oftware		-		-		
Used	Des	cription		Man	ufacturer		Name	Version		
\checkmark	Test Software for C	Conducted dist	urbar	nce l	Farad		EZ-EMC	Ver. UL-3A1		
		Ra	adiate	ed Emissi	ons					
			In	strument						
Used		Manufacturer	Mo	odel No.	Serial N		Last Cal.	Next Cal.		
\checkmark	MXE EMI Receiver	KESIGHT	N	9038A	MY56400	036	Dec.10,2018	Dec.10,2019		
V	Hybrid Log Periodic Antenna	TDK	HLI	P-3003C	13096	0	Sep.17,2018	Sep.17,2021		
\checkmark	Preamplifier	HP	8	3447D	2944A09	099	Dec.10,2018	Dec.10,2019		
V	EMI Measurement Receiver	R&S	E	SR26	10137	7	Dec.10,2018	Dec.10,2019		
\checkmark	Horn Antenna	TDK	HRN-0118		13093	9	Sep.17,2018	Sep.17,2021		
V	High Gain Horn Antenna	Schwarzbeck	BBHA-9170		691		Aug.18,2018	Aug.18,2021		
V	Preamplifier	TDK	PA	-02-0118	TRS-30		Dec.10,2018	Dec.10,2019		
V	Preamplifier	TDK	Р	A-02-2	TRS-307- 00003		Dec.10,2018	Dec.10,2019		
V	Loop antenna	Schwarzbeck	1	I519B	00008		Jan.17, 2019	Jan.17,2022		
			S	oftware						
Used	Descr			Manufac	turer	1	Name	Version		
V	Test Software disturl			Fara	b	E	Z-EMC	Ver. UL-3A1		
		C)ther	instrume	nts					
Used	Equipment	Manufacturer	Mo	odel No.	Serial N	lo.	Last Cal.	Next Cal.		
\checkmark	Spectrum Analyzer	Keysight	N	9030A	MY55410	512	Dec.10,2018	Dec.10,2019		
V	Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS		4		Dec.10,2018	Dec.10,2019		
	High Pass Filter	Wi	270	HKX10-)0-3000- 00-40SS	23		Dec.10,2018	Dec.10,2019		

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6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

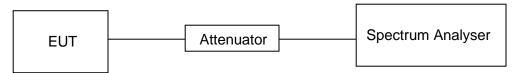
<u>LIMITS</u>

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (KHz)	Final setting For VBW (KHz)
GFSK	1.380	10.04	0.1375	13.75	8.6170	0.7246	1

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle(Linear)

Where: T is On Time (transmit duration)

If that calculated VBW is not available on the analyzer then the next higher value should be used.

ON TIME AND DUTY CYCLE MID CH PLOT

arker 3 Δ	RF 50 Ω			_	SENS	E:INT	Ava 1		GNAUTO		M Mar 18, 2019		Marker
arker 5 A	10.0400	1115	PNO: Fast IFGain:Lov		Trig: Free F #Atten: 20 d			ype. L	vy i ni	TYI DI		M	arker Tak
	Ref 10.00	dBm							Δ		0.04 ms 0.84 dB		
29 .00 0.0												Ma	ker Cour [Of
0.0 0.0													Cou
0.0 0.0 0.0 p.l./st_nthese	Marine Xa	12	չշ ապոեսանոր	afred by	14-martinet the	Murrara	Arrangened	3∆4	-	all the second second	withleader	On	Marke
0.0													
enter 2.45 es BW 3.0		GHz	VB	w a	8.0 MHz			Sw	eep 2		Span 0 Hz 1001 pts)		
TRE MODE TRC 1 Δ2 1 2 F 1 3 Δ4 1 4 F 1	SCL t (Δ) t t (Δ) t	×	1.380 ms 3.360 ms 10.04 ms 3.360 ms		-7.66 dl -52.04 dBr 0.84 d -52.04 dBr	B n B	INCTION	FUNCT	ION WIDTH	FUNCTIO	DN VALUE		
5 6 7 8	•		0.000 ma		-52.54 dBi								Markers
9) 													M (2 (
2													



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 15.249(d)	20dB Bandwidth	for reporting purposes only	2400-2483.5				

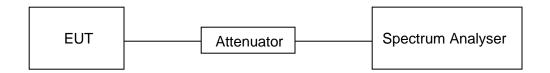
TEST PROCEDURE

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

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

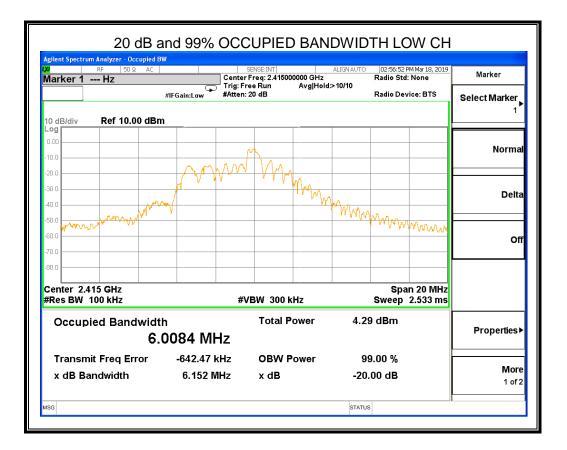
Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



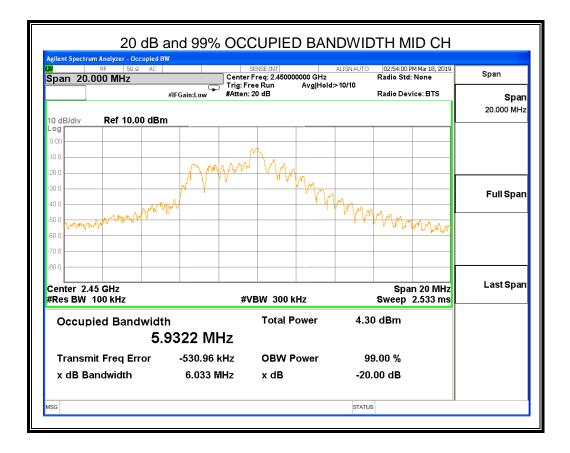
RESULTS

Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2415	6.152	6.0084	PASS

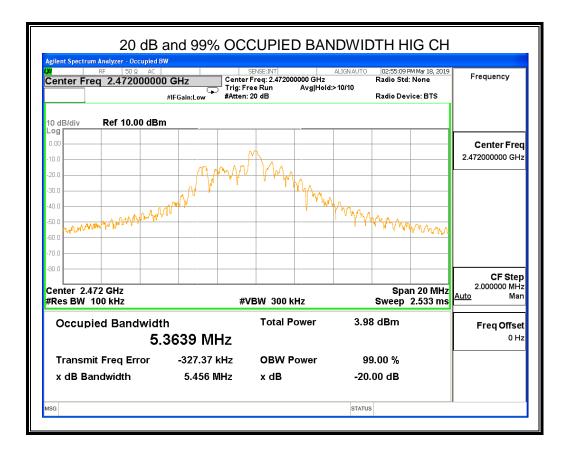


11	• •
	L/

Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2450	6.033	5.9322	PASS



Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2472	5.456	5.3639	PASS





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)(e)

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

Emissions radiated outside of the specified frequency bands above 30MHz					
Frequency Range	Field Strength Limit				
(MHz)	Range Field Strength Limit (uV/m) at 3 m		n) at 3 m		
(10112)		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		

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					

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FCC Restricted bands of operation:

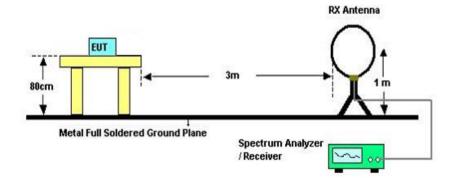
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 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 and vertical 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 variable 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 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

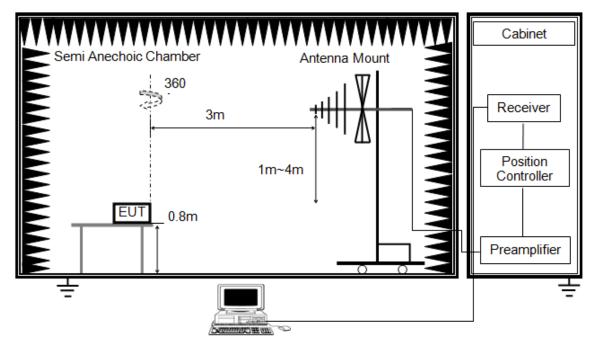
6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore 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.

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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.

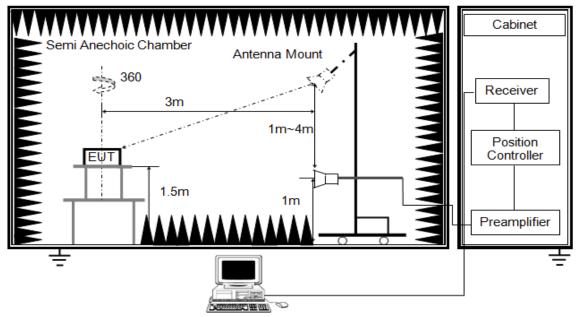
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, 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. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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Above 1G



The setting of the spectrum analyser

RBW	1M
IV BWV	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 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.

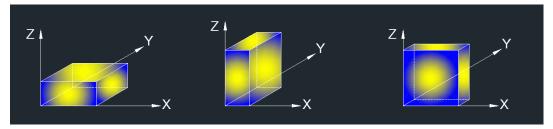
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. 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 and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector. For the Duty Cycle and Correction Factor please refer to clause 7.1.ON TIME AND DUTY CYCLE.

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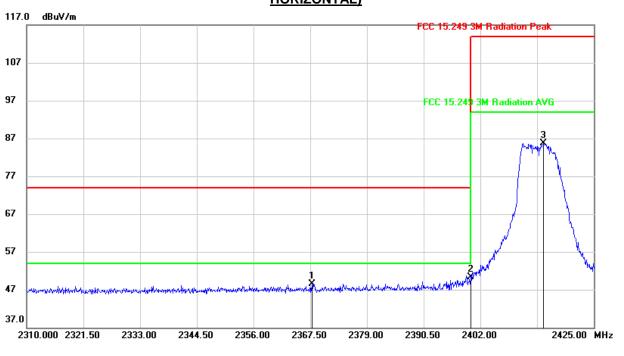
X axis, Y axis, Z axis positions:



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.



7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS



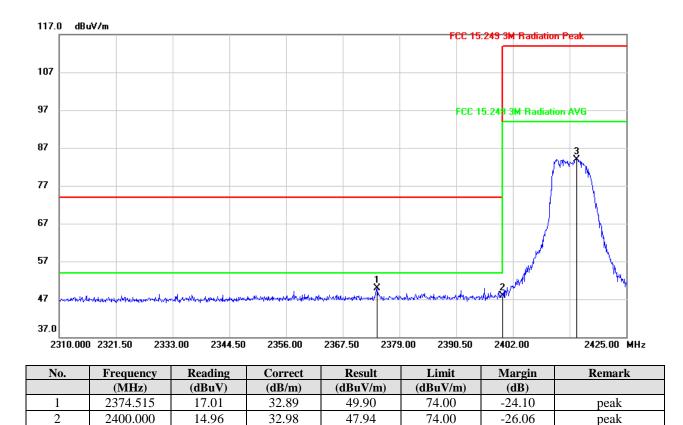
RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL,
HORIZONTAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2367.845	15.67	32.87	48.54	74.00	-25.46	peak
2	2400.000	17.31	32.98	50.29	74.00	-23.71	peak
3	2414.765	52.53	33.09	85.62	114.00	-28.38	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.

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



Noto: 1 Moscurement -	Reading Level + Correct Factor.

50.89

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

83.98

114.00

-30.02

peak

3. Peak: Peak detector.

2414.995

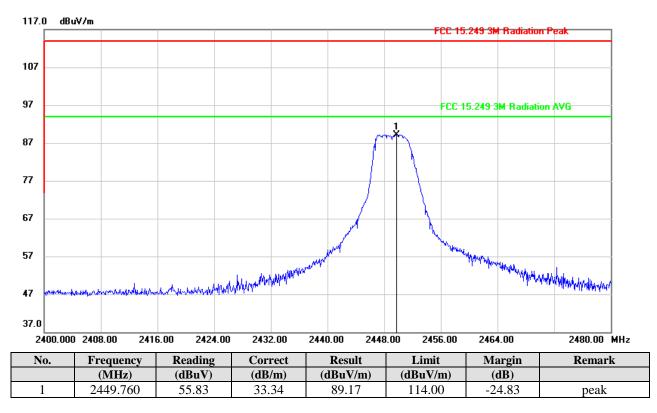
3

4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

33.09



FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, HORIZONTAL)



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.

67

57

47

37.0

2400.000 2408.00

YAN MAN

2464.00

2456.00

2480.00 MHz



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	2450.080	49.80	33.34	83.14	114.00	-30.86	peak

2440.00

2448.00

2432.00

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

2424.00

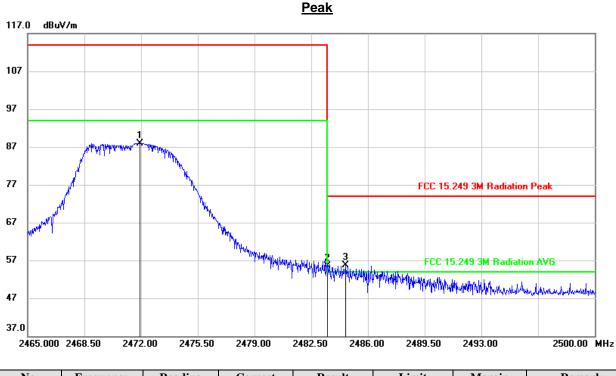
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

2416.00



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

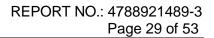


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2471.930	54.47	33.50	87.97	114.00	-26.03	peak
2	2483.500	21.86	33.58	55.44	74.00	-18.56	peak
3	2484.600	22.18	33.59	55.77	74.00	-18.23	peak

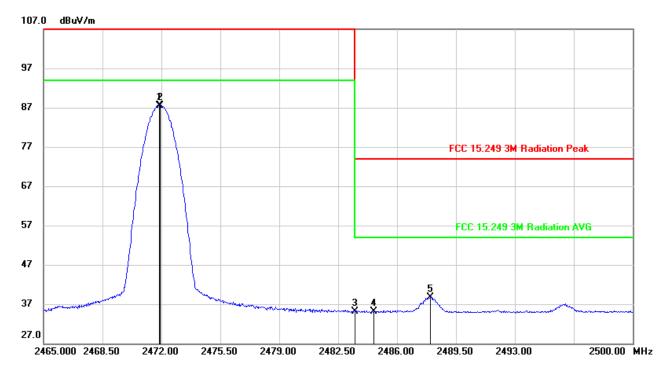
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2471.895	54.06	33.50	87.56	94.00	-6.44	AVG
2	2471.930	54.05	33.50	87.55	94.00	-6.45	AVG
3	2483.500	1.57	33.58	35.15	54.00	-18.85	AVG
4	2484.600	1.51	33.59	35.10	54.00	-18.90	AVG
5	2487.995	5.18	33.62	38.80	54.00	-15.20	AVG

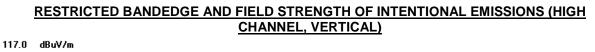
Note: 1. Peak Result = Reading Level + Correct Factor.

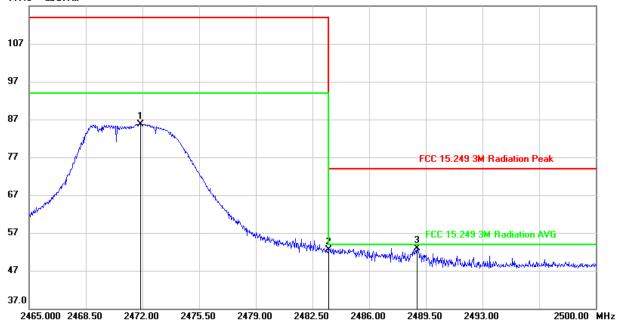
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 6.1.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2471.895	52.21	33.50	85.71	114.00	-28.29	peak
2	2483.500	18.89	33.58	52.47	74.00	-21.53	peak
3	2488.940	19.20	33.62	52.82	74.00	-21.18	peak

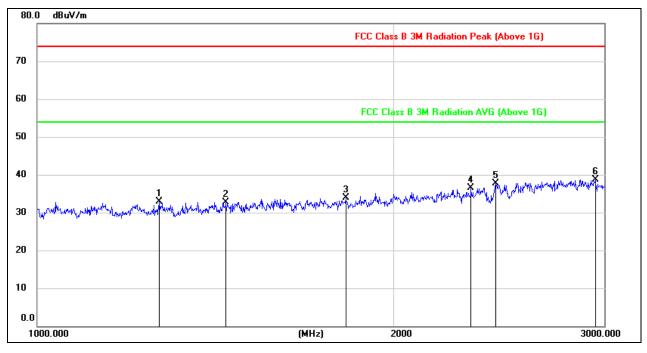
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



7.3. SPURIOUS EMISSIONS (1~3GHz)



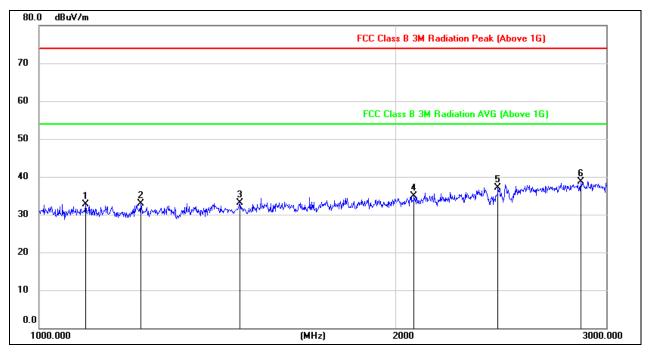
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1266.430	44.52	-11.63	32.89	74.00	-41.11	peak
2	1441.722	44.52	-11.78	32.74	74.00	-41.26	peak
3	1817.833	43.23	-9.39	33.84	74.00	-40.16	peak
4	2317.383	43.93	-7.43	36.50	74.00	-37.50	peak
5	2429.484	44.57	-6.89	37.68	74.00	-36.32	peak
6	2950.968	43.57	-4.87	38.70	74.00	-35.30	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.
- 4. The Band Reject 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 (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1094.269	45.43	-12.63	32.80	74.00	-41.20	peak
2	1217.320	45.09	-12.23	32.86	74.00	-41.14	peak
3	1475.370	44.81	-11.68	33.13	74.00	-40.87	peak
4	2067.175	43.61	-8.80	34.81	74.00	-39.19	peak
5	2432.154	44.04	-6.85	37.19	74.00	-36.81	peak
6	2858.432	43.91	-5.16	38.75	74.00	-35.25	peak

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

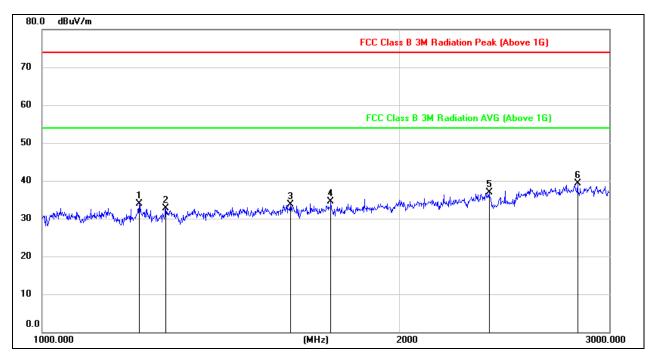
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The Band Reject filter loss factor already add into the correct factor.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



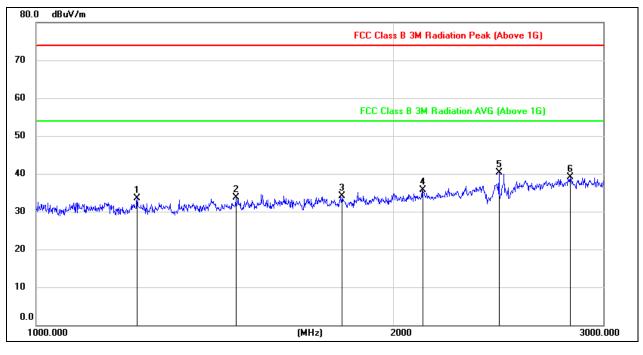
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1206.668	46.26	-12.36	33.90	74.00	-40.10	peak
2	1272.007	44.19	-11.56	32.63	74.00	-41.37	peak
3	1618.002	44.33	-10.62	33.71	74.00	-40.29	peak
4	1749.261	44.51	-10.07	34.44	74.00	-39.56	peak
5	2379.297	44.05	-7.19	36.86	74.00	-37.14	peak
6	2820.996	44.40	-5.18	39.22	74.00	-34.78	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.
- 4. The Band Reject 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 (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1215.983	45.65	-12.24	33.41	74.00	-40.59	peak
2	1472.132	45.35	-11.69	33.66	74.00	-40.34	peak
3	1805.890	43.54	-9.41	34.13	74.00	-39.87	peak
4	2113.098	44.13	-8.34	35.79	74.00	-38.21	peak
5	2450.930	47.08	-6.72	40.36	74.00	-33.64	peak
6	2814.804	44.30	-5.20	39.10	74.00	-34.90	peak

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

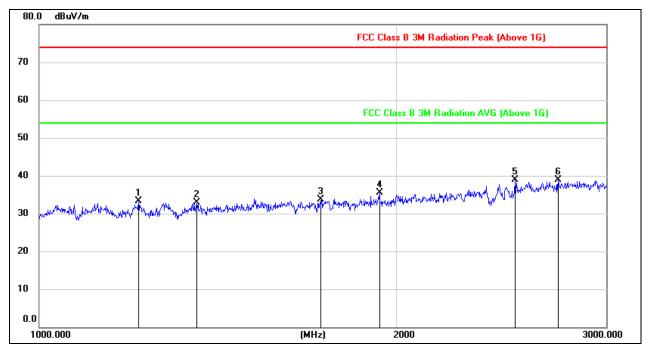
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The Band Reject filter loss factor already add into the correct factor.



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	1211.982	45.52	-12.29	33.23	74.00	-40.77	peak
2	1360.172	44.53	-11.64	32.89	74.00	-41.11	peak
3	1728.249	44.02	-10.34	33.68	74.00	-40.32	peak
4	1933.182	44.94	-9.45	35.49	74.00	-38.51	peak
5	2513.650	45.20	-6.39	38.81	74.00	-35.19	peak
6	2735.540	45.46	-6.62	38.84	74.00	-35.16	peak

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

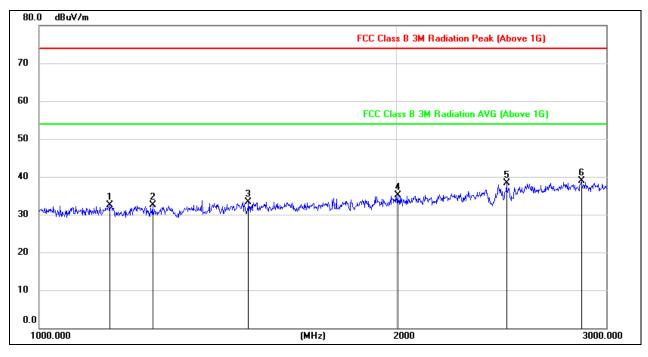
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The Band Reject filter loss factor already add into the correct factor.



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	1147.203	44.96	-12.52	32.44	74.00	-41.56	peak
2	1245.731	44.32	-11.88	32.44	74.00	-41.56	peak
3	1499.884	45.00	-11.60	33.40	74.00	-40.60	peak
4	2004.554	44.74	-9.72	35.02	74.00	-38.98	peak
5	2472.566	44.90	-6.54	38.36	74.00	-35.64	peak
6	2861.574	43.98	-5.16	38.82	74.00	-35.18	peak

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

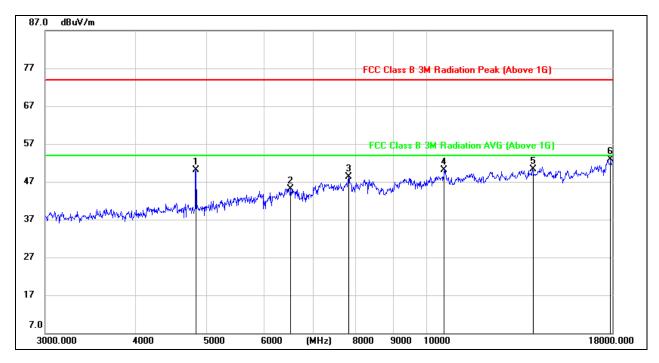
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The Band Reject filter loss factor already add into the correct factor.



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	4840.471	50.20	-0.18	50.02	74.00	-23.98	peak
2	6528.883	39.00	6.20	45.20	74.00	-28.80	peak
3	7824.060	39.53	8.77	48.30	74.00	-25.70	peak
4	10591.067	37.51	12.69	50.20	74.00	-23.80	peak
5	14006.555	33.97	16.36	50.33	74.00	-23.67	peak
6	17935.612	29.69	23.19	52.88	74.00	-21.12	peak

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

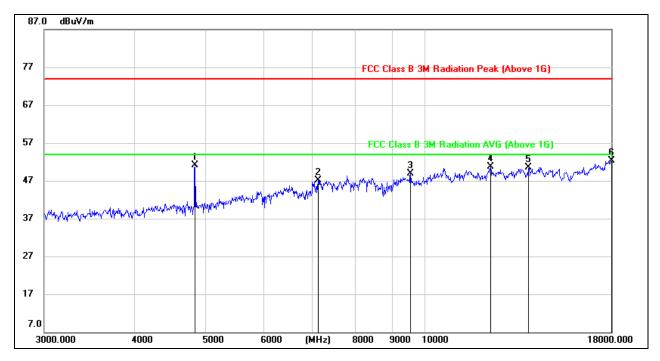
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The High Pass filter loss factor already add into the correct factor.



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	4840.471	51.31	-0.18	51.13	74.00	-22.87	peak
2	7128.010	40.26	6.89	47.15	74.00	-26.85	peak
3	9545.682	38.70	10.25	48.95	74.00	-25.05	peak
4	12289.276	36.32	14.38	50.70	74.00	-23.30	peak
5	13881.633	34.27	16.29	50.56	74.00	-23.44	peak
6	18000.000	29.12	23.27	52.39	74.00	-21.61	peak

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

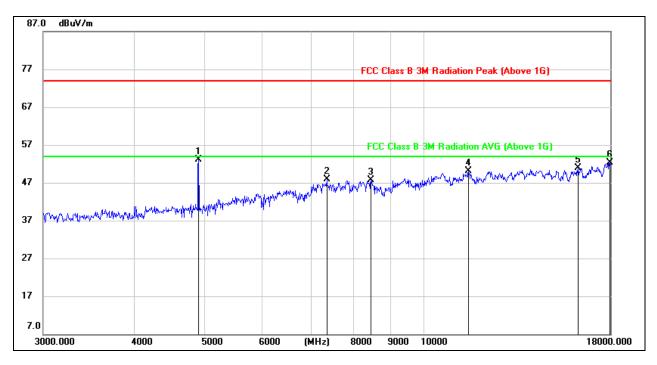
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The High Pass filter loss factor already add into the correct factor.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

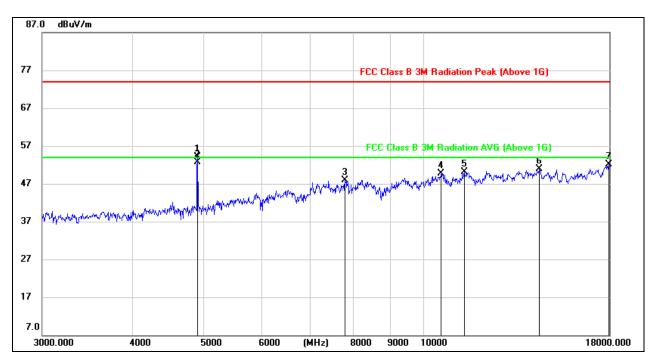


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4901.564	53.16	-0.09	53.07	74.00	-20.93	peak
2	7348.469	40.67	7.31	47.98	74.00	-26.02	peak
3	8465.855	38.99	8.62	47.61	74.00	-26.39	peak
4	11500.976	35.95	14.08	50.03	74.00	-23.97	peak
5	16281.561	32.96	18.00	50.96	74.00	-23.04	peak
6	17967.777	29.00	23.24	52.24	74.00	-21.76	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.
- 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 (MID CHANNEL, VERTICAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4899.805	54.21	-0.09	54.12	74.00	-19.88	peak
2	4899.805	52.80	-0.09	52.71	54.00	-1.29	AVG
3	7810.054	39.07	8.82	47.89	74.00	-26.11	peak
4	10591.067	37.06	12.69	49.75	74.00	-24.25	peak
5	11377.996	36.83	13.25	50.08	74.00	-23.92	peak
6	14439.758	34.55	16.39	50.94	74.00	-23.06	peak
7	17967.777	28.84	23.24	52.08	74.00	-21.92	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.

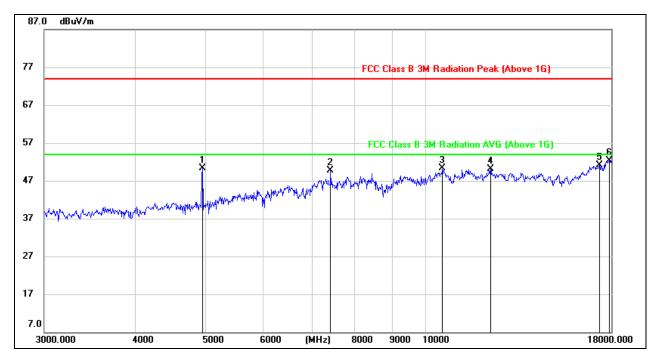
4. AVG: VBW=1/Ton where: ton is transmit duration.

5. For transmit duration, please refer to clause 6.1.

6. The High Pass filter loss factor already add into the correct factor.



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	4945.674	50.07	0.17	50.24	74.00	-23.76	peak
2	7414.599	42.28	7.46	49.74	74.00	-24.26	peak
3	10591.067	37.52	12.69	50.21	74.00	-23.79	peak
4	12289.276	35.66	14.38	50.04	74.00	-23.96	peak
5	17335.299	29.29	21.75	51.04	74.00	-22.96	peak
6	17871.455	29.12	23.18	52.30	74.00	-21.70	peak

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

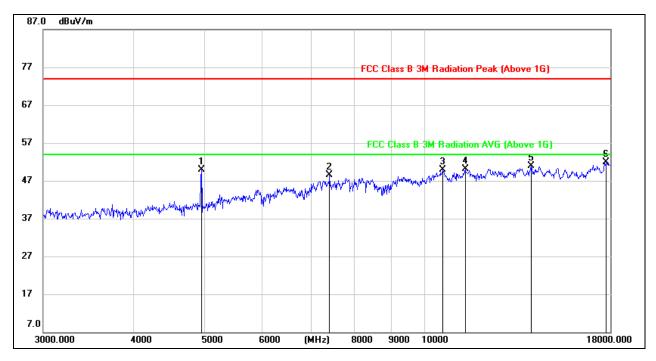
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The High Pass filter loss factor already add into the correct factor.



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	4945.674	49.81	0.17	49.98	74.00	-24.02	peak
2	7414.599	40.97	7.46	48.43	74.00	-25.57	peak
3	10610.061	37.18	12.74	49.92	74.00	-24.08	peak
4	11377.996	36.83	13.25	50.08	74.00	-23.92	peak
5	14006.555	34.60	16.36	50.96	74.00	-23.04	peak
6	17775.648	28.84	22.98	51.82	74.00	-22.18	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.

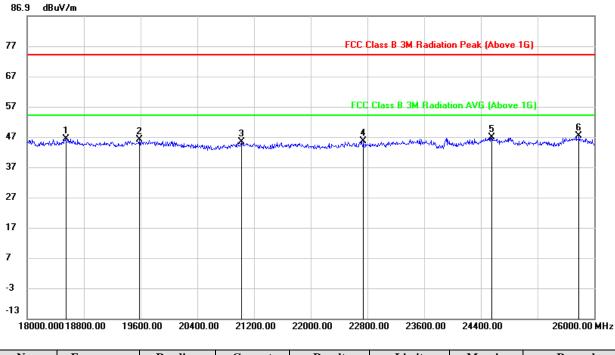
3. Peak: Peak detector.

4. The High Pass filter loss factor already add into the correct factor.



7.5. SPURIOUS EMISSIONS (18~26GHz)





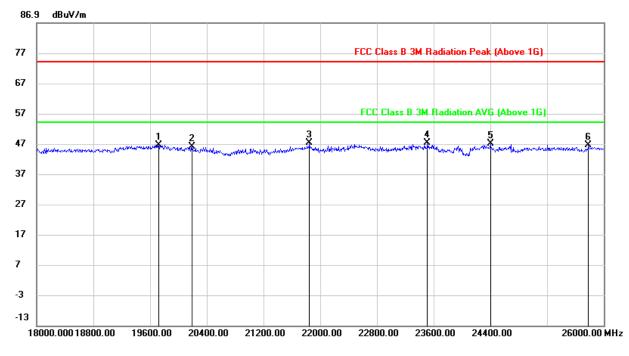
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18544.000	50.76	-4.46	46.30	74.00	-27.70	peak
2	19584.000	50.67	-4.64	46.03	74.00	-27.97	peak
3	21024.000	50.62	-5.30	45.32	74.00	-28.68	peak
4	22744.000	51.18	-5.74	45.44	74.00	-28.56	peak
5	24552.000	49.14	-2.46	46.68	74.00	-27.32	peak
6	25784.000	48.73	-1.49	47.24	74.00	-26.76	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.

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19720.000	51.00	-4.39	46.61	74.00	-27.39	peak
2	20192.000	50.87	-4.76	46.11	74.00	-27.89	peak
3	21848.000	53.26	-5.95	47.31	74.00	-26.69	peak
4	23512.000	52.01	-4.76	47.25	74.00	-26.75	peak
5	24400.000	50.14	-2.99	47.15	74.00	-26.85	peak
6	25784.000	48.08	-1.49	46.59	74.00	-27.41	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.

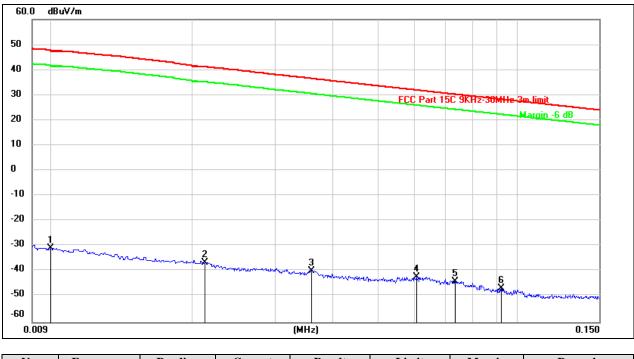
3. Peak: Peak detector.

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



7.6. SPURIOUS EMISSIONS BELOW 30M

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



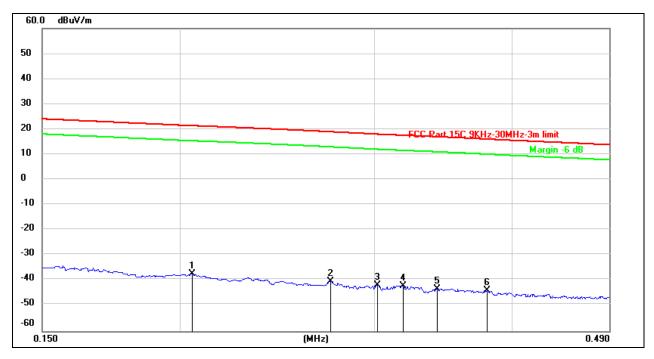
<u>9kHz~ 150kHz</u>

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	70.72	-101.40	-30.68	47.60	-78.28	peak
2	0.0212	65.04	-101.35	-36.31	41.16	-77.47	peak
3	0.0359	61.72	-101.42	-39.70	36.59	-76.29	peak
4	0.0606	59.45	-101.52	-42.07	31.96	-74.03	peak
5	0.0734	57.70	-101.58	-43.88	30.31	-74.19	peak
6	0.0922	55.01	-101.74	-46.73	28.32	-75.05	peak

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

2. All the modes had been tested, but only the worst data were recorded in the report.

<u>150kHz ~ 490kHz</u>

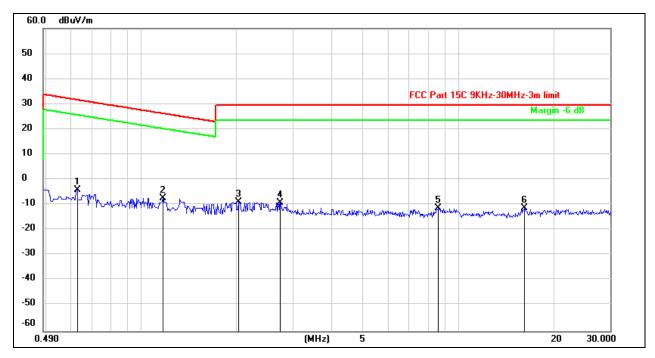


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2051	64.31	-101.73	-37.42	21.40	-58.82	peak
2	0.2736	61.58	-101.83	-40.25	18.99	-59.24	peak
3	0.3019	59.93	-101.85	-41.92	18.01	-59.93	peak
4	0.3190	59.79	-101.88	-42.09	17.58	-59.67	peak
5	0.3421	58.60	-101.90	-43.30	17.01	-60.31	peak
6	0.3800	58.02	-101.94	-43.92	16.06	-59.98	peak

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

2. All the modes had been tested, but only the worst data were recorded in the report.

<u>490kHz ~ 30MHz</u>



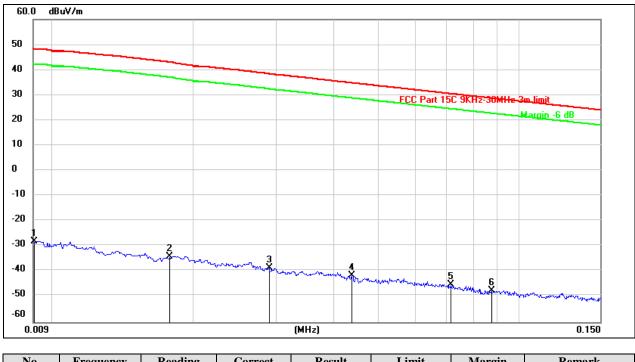
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6270	58.15	-62.09	-3.94	31.68	-35.62	peak
2	1.1687	54.72	-62.19	-7.47	26.26	-33.73	peak
3	2.0245	52.85	-61.82	-8.97	29.54	-38.51	peak
4	2.7360	52.64	-61.64	-9.00	29.54	-38.54	peak
5	8.6348	49.60	-60.99	-11.39	29.54	-40.93	peak
6	16.1598	49.61	-60.97	-11.36	29.54	-40.90	peak

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

2. All the modes had been tested, but only the worst data were recorded in the report.



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



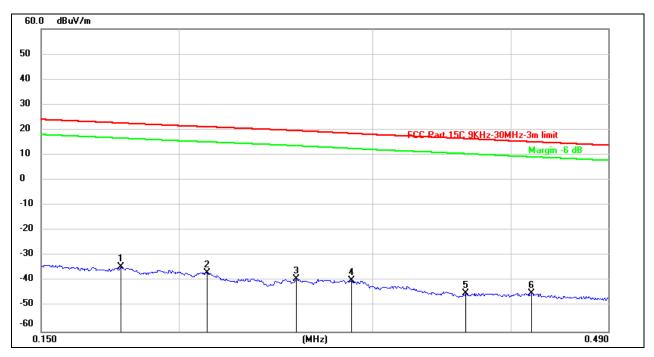
<u>9kHz~ 150kHz</u>

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0091	73.34	-101.33	-27.99	48.29	-76.28	peak
2	0.0177	67.35	-101.35	-34.00	42.96	-76.96	peak
3	0.0290	62.86	-101.38	-38.52	38.41	-76.93	peak
4	0.0437	60.00	-101.45	-41.45	34.84	-76.29	peak
5	0.0714	56.41	-101.57	-45.16	30.54	-75.70	peak
6	0.0874	54.04	-101.69	-47.65	28.78	-76.43	peak

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

2. All the modes had been tested, but only the worst data were recorded in the report.

<u>150kHz ~ 490kHz</u>

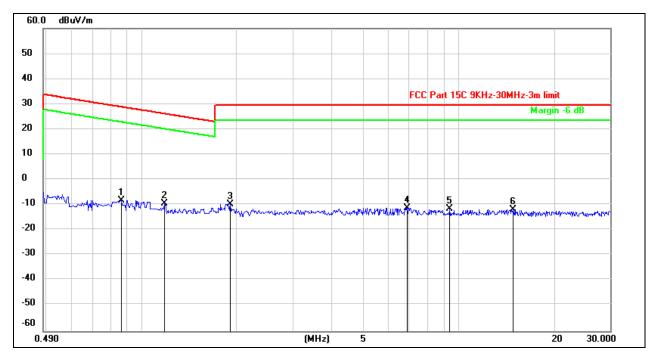


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1774	67.31	-101.68	-34.37	22.63	-57.00	peak
2	0.2121	65.09	-101.73	-36.64	21.15	-57.79	peak
3	0.2555	62.59	-101.80	-39.21	19.63	-58.84	peak
4	0.2867	62.13	-101.83	-39.70	18.53	-58.23	peak
5	0.3642	57.22	-101.93	-44.71	16.45	-61.16	peak
6	0.4176	57.05	-101.98	-44.93	15.22	-60.15	peak

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

2. All the modes had been tested, but only the worst data were recorded in the report.

<u>490kHz ~ 30MHz</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.8646	53.98	-62.19	-8.21	28.88	-37.09	peak
2	1.1814	52.66	-62.19	-9.53	26.16	-35.69	peak
3	1.9065	52.24	-61.87	-9.63	29.54	-39.17	peak
4	6.8936	49.92	-61.22	-11.30	29.54	-40.84	peak
5	9.3725	49.23	-60.89	-11.66	29.54	-41.20	peak
6	14.8612	49.26	-61.02	-11.76	29.54	-41.30	peak

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

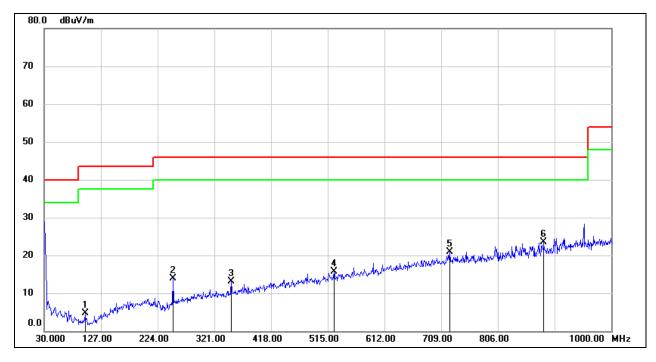
2. All the modes had been tested, but only the worst data were recorded in the report.

3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

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

7.7. SPURIOUS EMISSIONS BELOW 1 GHz





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	99.8399	26.24	-21.62	4.62	43.50	-38.88	QP
2	250.1900	29.57	-15.76	13.81	46.00	-32.19	QP
3	350.1000	25.88	-12.80	13.08	46.00	-32.92	QP
4	525.6700	25.27	-9.50	15.77	46.00	-30.23	QP
5	723.5500	26.66	-5.79	20.87	46.00	-25.13	QP
6	884.5700	27.29	-3.85	23.44	46.00	-22.56	QP

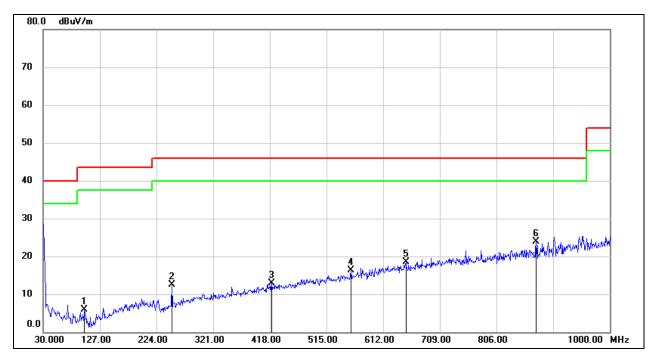
Note: 1. Result Level = Read Level + Correct Factor.

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 (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB / m)	(dBuV/m)	(dBuV/m)	(dB)	
1	100.8100	27.46	-21.59	5.87	43.50	-37.63	QP
2	250.1900	28.32	-15.76	12.56	46.00	-33.44	QP
3	420.9100	24.48	-11.58	12.90	46.00	-33.10	QP
4	556.7100	25.30	-9.00	16.30	46.00	-29.70	QP
5	650.8000	25.75	-7.22	18.53	46.00	-27.47	QP
6	873.9000	27.94	-4.01	23.93	46.00	-22.07	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 mode has 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.

<u>RESULTS</u>

Complies

END OF REPORT