

FCC Part15, Subpart B ICES-003

TEST REPORT

For

TOY Receiver

MODEL NUMBER: 4360B

FCC ID: G6D4360B

REPORT NUMBER: 4789448144

ISSUE DATE: April 22, 2020

Prepared for

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

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	04/22/2020	Initial Issue	



Standard

FCC Part15, Subpart B ANSI C63.4-2014

ICES-003 Issue 6

REPORT NO.: 4789448144

PASS

PASS

NOTE (2)

NOTE (3)

Page 3 of 25 Summary of Test Results Limit Result Remark NOTE (1) Class B N/A

Class B

Class B

Note:	

- (1) "N/A" denotes test is not applicable in this test report.
- (2) This test is only applicable for devices which can be charged or powered by AC power cable.

Test Item

Conducted Disturbance

Radiated Disturbance below 1 GHz

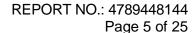
Radiated Disturbance above 1 GHz

- (3) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- (4) This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
- (5) The measurement result for the sample received is <Pass> according to < FCC Part15, Subpart B and ICES-003 Issue 6 > 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 Receiver

Model: 4360B

Brand:

Sample Received Date: March 25, 2020

Sample Status: Normal Sample ID: 3024938

Date of Tested: March 26, 2020 ~ April 22, 2020

APPLICABLE STANDARDS				
STANDARD TEST RESULTS				
FCC Part15, Subpart B	PASS			
ICES-003 Issue 6	PASS			

Prepared By:	Checked By:

Andy Viona Shown Won

Shemmy les

Andy Xiong Shawn Wen Engineer Project Associate Laboratory Leader

Approved By:

Stanhan Gua

Stephen Guo Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC Part15 Subpart B & ICES-003 Issue 6 & ANSI C63.4-2014.

3. FACILITIES AND ACCREDITATION

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.



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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	Measurement Frequency Range	К	U(dB)
Conducted emissions from the AC mains power ports	0.009MHz ~ 0.15MHz	2	4.00
Conducted emissions from the AC mains power ports	0.15MHz ~ 30MHz	2	3.62
Radiated emissions	30MHz ~ 1GHz	2	4.00
Radiated emissions	1GHz ~ 18GHz	2	5.78

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 Receiver			
Model	4360B			
	Dower Adenter	Input	1	
Power Supply	Power Adapter	Output	1	
	Battery	DC 4.5V		

5.2. TEST MODE

Test Mode	Description
Mode 1	Running
Mode 2	Receiving

5.3. EUT ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Controller	NEW BRIGHT	/	/

5.4. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
1	Battery	/	/	DC1.5V * 3	1

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
/	/	/	/	/



6. MEASURING EQUIPMENT AND SOFTWARE USED

Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Dec. 6, 2019	Dec. 6, 2020	
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Sept. 17, 2018	Sept. 17, 2021	
Preamplifier	HP	8447D	2944A09099	Dec. 5, 2019	Dec. 5, 2020	
EMI Measurement Receiver	R&S	ESR26	101377	Dec. 5, 2019	Dec. 5, 2020	
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021	
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Dec. 05, 2019	Dec. 5, 2020	
High Pass Filter Wi 27		WHKX10- 2700-3000- 18000-40SS	23	Dec. 05, 2019	Dec.05, 2020	
Software						
Description			Manufacturer	Name	Version	
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1	
Test Softwa	are for RS	Farad	EMC-R	.S	2.03	



7. EMISSION TEST

7.1. RADIATED EMISSIONS MEASUREMENT

LIMITS

Below 1 GHz

CFR 47 FCC Part15 Subpart B ICES-003 Issue 6						
Frequency	Cla	iss A	Class B			
(MHz)	Field strength (uV/m) (at 10m)	Field strength (dBuV/m) (at 3m)				
30 - 88	90	49.5	40			
88 - 216	150	53.9	43.5			
216 - 960	210	56.9	46			
Above 960	300	60	54			

Above 1 GHz

CFR 47 FCC Part15 Subpart B						
ICES-003 Issue 6						
Class A Class B						s B
Frequency (MHz)	(dBuV/m) (at 3m)	(dBuV/m)	(at 10m)	(dBuV/m)	(at 3m)
(IVITZ)	Peak Average Peak Average Peak Aver					Average
Above 1000	80	60	69.5	49.5	74	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

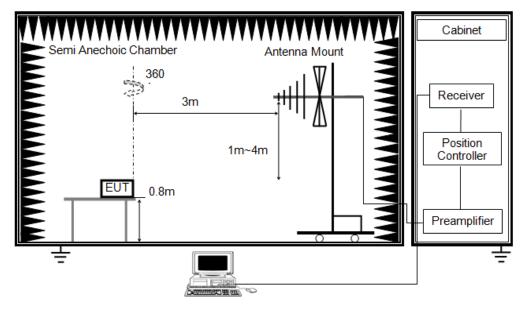
NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m), 3m Emission level = 10m Emission level + 20log(10m/3m);



TEST SETUP AND PROCEDURE

Below 1G and above 30MHz



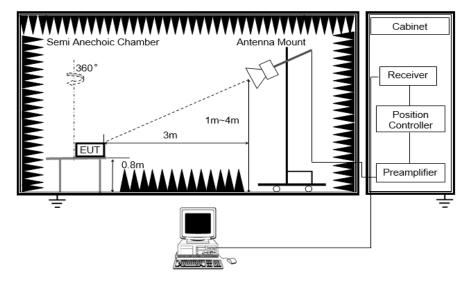
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 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 was 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. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. 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.



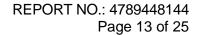
Above 1G



The setting of the spectrum analyser

RBW	1M
VBW	3M
Sweep	Auto
II IOTOCTOR	Peak: Peak AVG: RMS
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 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. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. For measurement above 1GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.
- 9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.





TEST ENVIRONMENT

Radiated Emissio	ns - Below 1 GHz	Radiated Emissions - Above 1 GHz		
Temperature:	24°C	Temperature:	22.5°C	
Humidity:	65%	Humidity:	54%	
Atmosphere Pressure	101kPa	Atmosphere Pressure	101kPa	

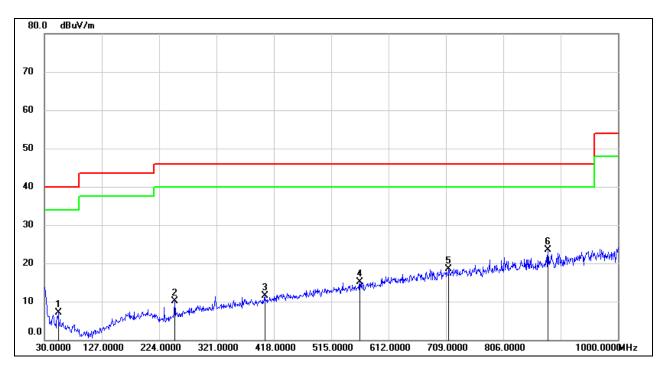
TEST MODE

Radiated Emissions - Below 1 GHz		Radiated Emissions - Above 1 GHz	
Pre-test Mode:	Mode 1 & Mode 2	Pre-test Mode: Mode 1 & Mode 2	
Final Test Mode: Mode 1 & Mode 2		Final Test Mode:	Mode 1 & Mode 2



TEST RESULTS

Radiated Emissions – Below 1GHz						
Measurement Method Radiated Polar: Horizontal						
Test Mode: Mode 1 Test Voltage: DC4.5V						



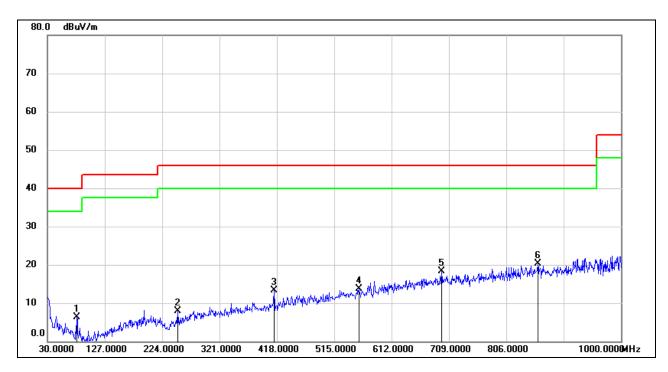
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	53.2800	25.63	-18.62	7.01	40.00	-32.99	QP
2	250.1900	26.45	-16.34	10.11	46.00	-35.89	QP
3	402.4800	24.23	-12.73	11.50	46.00	-34.50	QP
4	563.5000	24.85	-9.66	15.19	46.00	-30.81	QP
5	713.8500	25.15	-6.64	18.51	46.00	-27.49	QP
6	881.6600	27.97	-4.38	23.59	46.00	-22.41	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

2. Margin = Result - Limit



Radiated Emissions – Below 1GHz						
Measurement Method Radiated Polar: Vertical						
Test Mode: Mode 1 Test Voltage: DC4.5V						

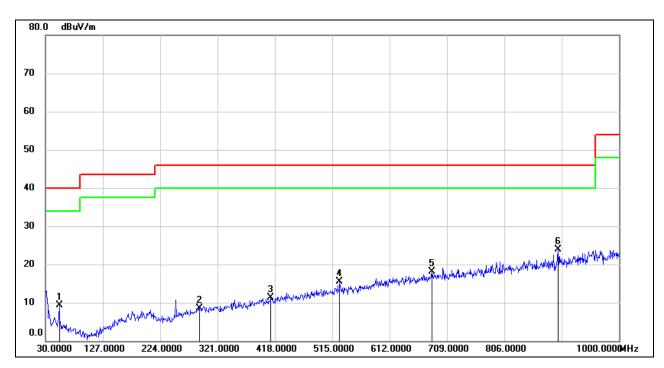


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	79.4700	26.71	-20.39	6.32	40.00	-33.68	QP
2	250.1900	24.23	-16.34	7.89	46.00	-38.11	QP
3	413.1500	25.71	-12.48	13.23	46.00	-32.77	QP
4	556.7100	23.48	-9.82	13.66	46.00	-32.34	QP
5	696.3900	25.38	-7.04	18.34	46.00	-27.66	QP
6	859.3500	25.09	-4.75	20.34	46.00	-25.66	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) 2. Margin = Result - Limit



Radiated Emissions – Below 1GHz								
Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 2	Test Voltage:	DC4.5V					

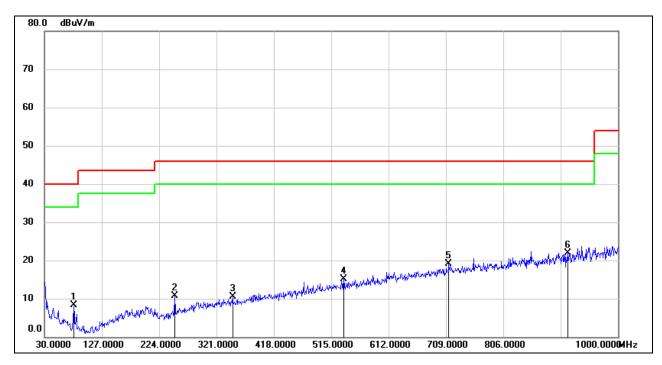


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	53.2800	27.90	-18.62	9.28	40.00	-30.72	QP
2	290.9300	23.32	-14.72	8.60	46.00	-37.40	QP
3	411.2100	23.79	-12.51	11.28	46.00	-34.72	QP
4	527.6100	25.75	-10.27	15.48	46.00	-30.52	QP
5	683.7800	25.45	-7.31	18.14	46.00	-27.86	QP
6	897.1800	28.11	-4.28	23.83	46.00	-22.17	QP

2. Margin = Result - Limit



Radiated Emissions – Below 1GHz								
Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 2	Test Voltage:	DC4.5V					

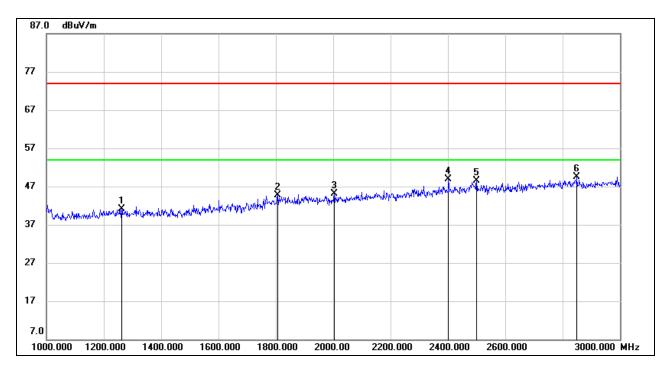


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	79.4700	28.73	-20.39	8.34	40.00	-31.66	QP
2	250.1900	27.12	-16.34	10.78	46.00	-35.22	QP
3	348.1600	24.13	-13.56	10.57	46.00	-35.43	QP
4	536.3400	25.14	-10.10	15.04	46.00	-30.96	QP
5	713.8500	25.71	-6.64	19.07	46.00	-26.93	QP
6	914.6400	25.96	-4.03	21.93	46.00	-24.07	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) 2. Margin = Result - Limit



Radiated Emissions – Above 1GHz and Below 3GHz									
Measurement Method	Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 1	Test Voltage:	DC 4.5V						

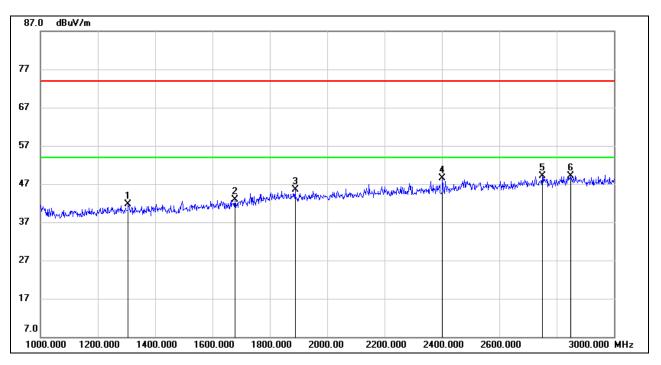


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1262.000	12.16	28.92	41.08	74.00	-32.92	peak
2	1806.000	13.52	31.28	44.80	74.00	-29.20	peak
3	2004.000	13.70	31.40	45.10	74.00	-28.90	peak
4	2402.000	15.82	32.99	48.81	74.00	-25.19	peak
5	2500.000	14.81	33.70	48.51	74.00	-25.49	peak
6	2850.000	15.02	34.55	49.57	74.00	-24.43	peak

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



Radiated Emissions – Above 1GHz and Below 3GHz									
Measurement Method	Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 1	Test Voltage:	DC 4.5V						

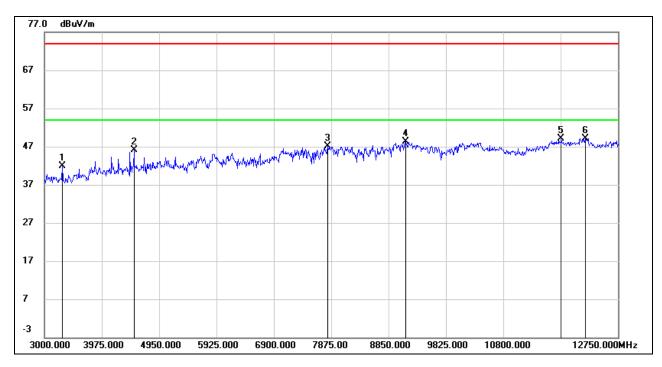


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1306.000	12.76	29.04	41.80	74.00	-32.20	peak
2	1678.000	12.66	30.16	42.82	74.00	-31.18	peak
3	1888.000	14.11	31.37	45.48	74.00	-28.52	peak
4	2402.000	15.43	32.99	48.42	74.00	-25.58	peak
5	2750.000	14.97	34.04	49.01	74.00	-24.99	peak
6	2850.000	14.55	34.55	49.10	74.00	-24.90	peak

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



Radiated Emissions – Above 3GHz								
Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 1	Test Voltage:	DC 4.5V					



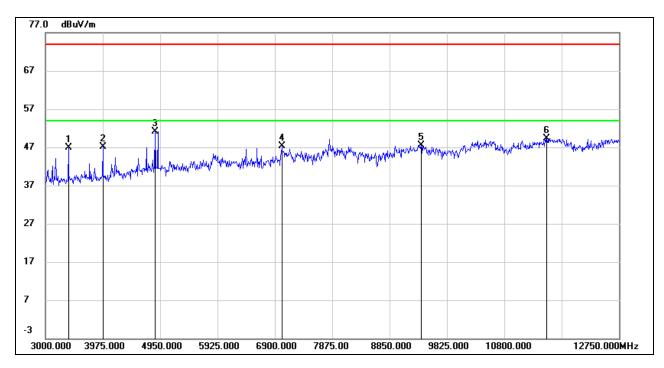
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3302.250	46.06	-4.25	41.81	74.00	-32.19	peak
2	4521.000	46.66	-0.61	46.05	74.00	-27.95	peak
3	7816.500	39.25	7.82	47.07	74.00	-26.93	peak
4	9142.500	39.23	9.02	48.25	74.00	-25.75	peak
5	11784.750	36.00	13.15	49.15	74.00	-24.85	peak
6	12194.250	35.34	13.72	49.06	74.00	-24.94	peak

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor + High Pass Filter Loss Factor)

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



Radiated Emissions – Above 3GHz								
Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 1	Test Voltage:	DC 4.5V					



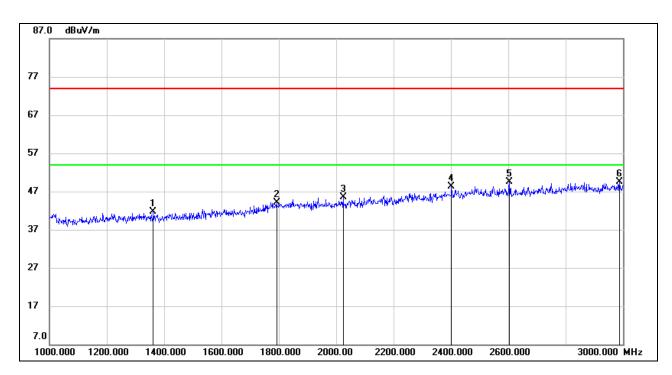
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3390.000	51.31	-4.37	46.94	74.00	-27.06	peak
2	3975.000	50.00	-2.90	47.10	74.00	-26.90	peak
3	4862.250	50.37	0.71	51.08	74.00	-22.92	peak
4	7017.000	41.47	5.78	47.25	74.00	-26.75	peak
5	9386.250	38.00	9.52	47.52	74.00	-26.48	peak
6	11521.500	35.92	13.37	49.29	74.00	-24.71	peak

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor + High Pass Filter Loss Factor)

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



Radiated Emissions – Above 1GHz and Below 3GHz							
Measurement Method Radiated Polar: Horizontal							
Test Mode: Mode 2 Test Voltage: DC 4.5V							

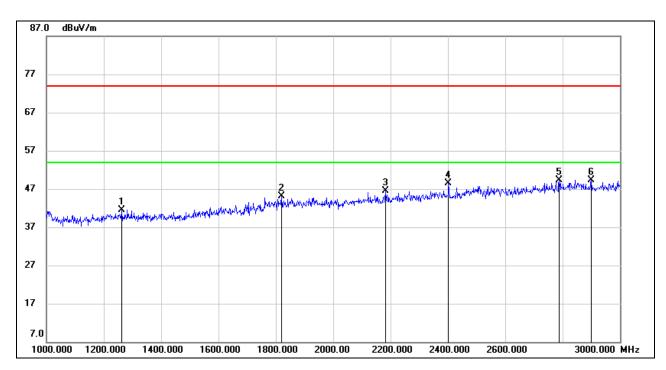


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1362.000	12.78	28.97	41.75	74.00	-32.25	peak
2	1792.000	12.97	31.19	44.16	74.00	-29.84	peak
3	2024.000	14.03	31.52	45.55	74.00	-28.45	peak
4	2402.000	15.27	32.99	48.26	74.00	-25.74	peak
5	2604.000	16.21	33.20	49.41	74.00	-24.59	peak
6	2988.000	14.46	35.06	49.52	74.00	-24.48	peak

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



Radiated Emissions – Above 1GHz and Below 3GHz							
Measurement Method Radiated Polar: Vertical							
Test Mode: Mode 2 Test Voltage: DC 4.5V							

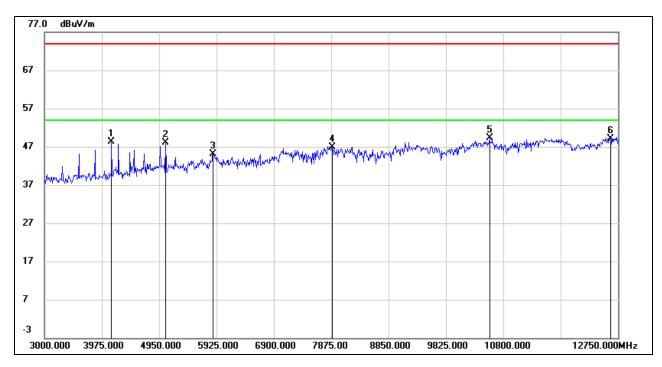


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1262.000	12.65	28.92	41.57	74.00	-32.43	peak
2	1820.000	13.76	31.31	45.07	74.00	-28.93	peak
3	2182.000	14.23	32.26	46.49	74.00	-27.51	peak
4	2402.000	15.48	32.99	48.47	74.00	-25.53	peak
5	2788.000	15.04	34.26	49.30	74.00	-24.70	peak
6	2900.000	14.56	34.78	49.34	74.00	-24.66	peak

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



Radiated Emissions – Above 3GHz							
Measurement Method Radiated Polar: Horizontal							
Test Mode: Mode 2 Test Voltage: DC 4.5V							



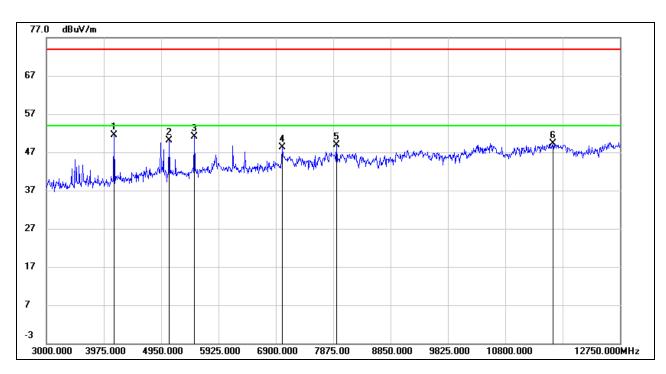
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4140.750	50.60	-2.21	48.39	74.00	-25.61	peak
2	5057.250	46.66	1.48	48.14	74.00	-25.86	peak
3	5866.500	40.81	4.33	45.14	74.00	-28.86	peak
4	7894.500	39.68	7.27	46.95	74.00	-27.05	peak
5	10566.000	37.57	11.76	49.33	74.00	-24.67	peak
6	12623.250	35.13	14.07	49.20	74.00	-24.80	peak

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor + High Pass Filter Loss Factor)

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



Radiated Emissions – Above 3GHz						
Measurement Method Radiated Polar: Vertical						
Test Mode:	Mode 2	Test Voltage:	DC 4.5V			



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4150.500	53.64	-2.04	51.60	74.00	-22.40	peak
2	5086.500	48.56	1.52	50.08	74.00	-23.92	peak
3	5515.500	48.01	3.00	51.01	74.00	-22.99	peak
4	7007.250	42.64	5.76	48.40	74.00	-25.60	peak
5	7933.500	41.85	7.11	48.96	74.00	-25.04	peak
6	11609.250	36.13	13.16	49.29	74.00	-24.71	peak

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor + High Pass Filter Loss Factor)

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

END OF REPORT

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