

TEST REPORT

Report No.: BCTC2110980005-4E

Applicant: Carsifi, Inc.

Product Name: Carsifi

Model/Type Ref.: Carsifi CRW

Tested Date: 2021-10-27 to 2021-11-08

Issued Date: 2021-11-09

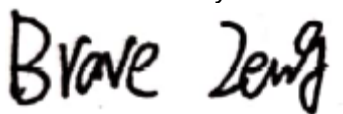
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2A3LO-CARSIFI

Product Name: Carsifi
Trademark: N/A
Model/Type Ref.: Carsifi CRW
Prepared For: Carsifi CRWAA, Carsifi CRWCA, Carsifi CRWACA
Address: 651 North Broad Street SUITE 206, Middletown, DE 19709, United States
Manufacturer: ROCKPI TRADING LIMITED
Address: Room 11, 27 / f, Ga wah international centre, 191 Javaroad, north point, Hong Kong
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2021-10-27
Sample tested Date: 2021-10-27 to 2021-11-08
Issue Date: 2021-11-09
Report No.: BCTC2110980005-4E
Test Standards: FCC Part15 15.407
ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

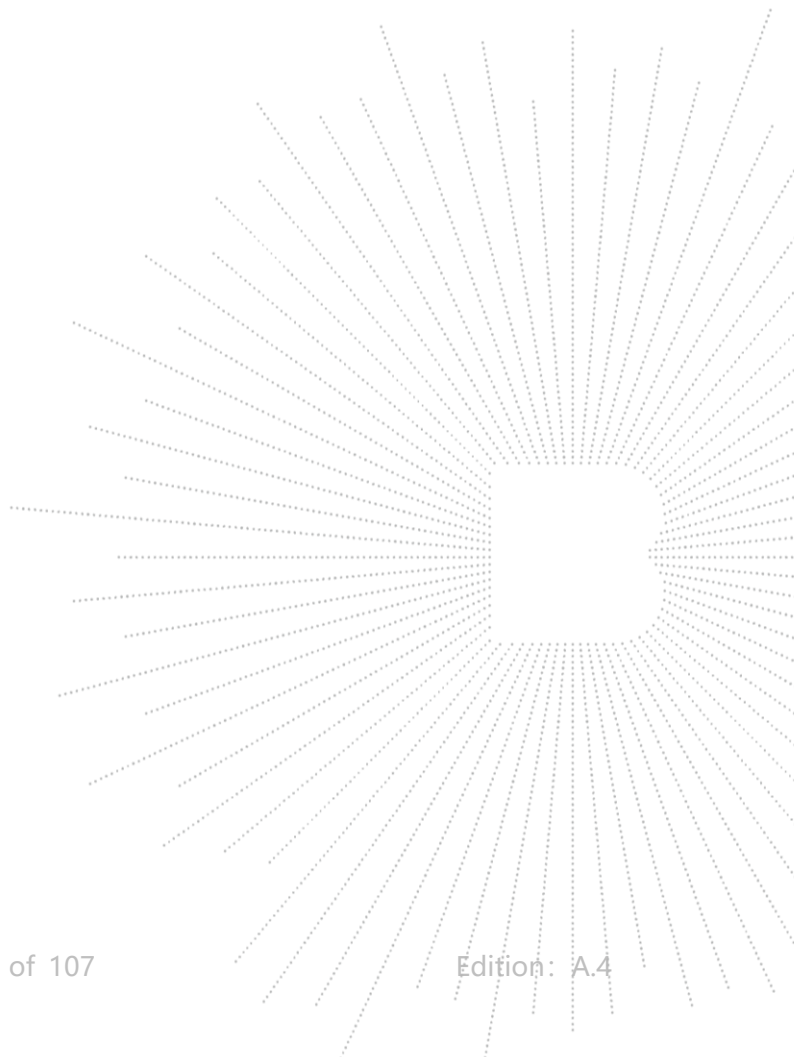
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2110980005-4E	2021-11-09	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(6)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(5) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

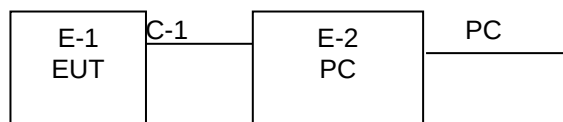
4.1 Product Information

Model/Type Ref.:	Carsifi CRW Carsifi CRWAA, Carsifi CRWCA, Carsifi CRWACA
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth)
Mode Supported	802.11ac(80MHz channel bandwidth) 5180-5240MHz for 802.11a/n/ac(HT20); 5190-5230MHz for 802.11n/ac(HT40); 5210MHz for 802.11 ac80;
Operation Frequency:	5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11a/n(HT40)/ac40; 802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Data Rate	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Type of Modulation:	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ;
Number Of Channel	
Antenna installation:	Chip antenna
Antenna Gain:	1dBi
Ratings:	DC 5V

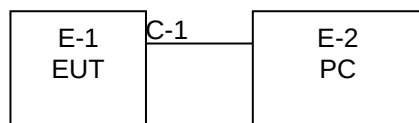
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Carsifi	N/A	Carsifi CRW	N/A	EUT
E-2	PC	Lenovo	Thinkpad S2	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

5.1G

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	40	5200	48	5240
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac (40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-
151	5755	159	5795	-	-	-	-

802.11ac (80MHz) Carrier Frequency Channel							
Channel				Frequency (MHz)			
42				5210			

5.8G

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac (40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

802.11n/ac (80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775			-	-	-	-

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

5.1G

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48
Mode 2	802.11n/ ac40 CH38/ CH 46
Mode 3	802.11 ac80 CH 42
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48
Mode 2	802.11n/ ac40 CH38/ CH 46
Mode 3	802.11 ac80 CH 42/
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

5.8G

Pretest Mode	Description
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac 80 CH155
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac 80 CH155

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

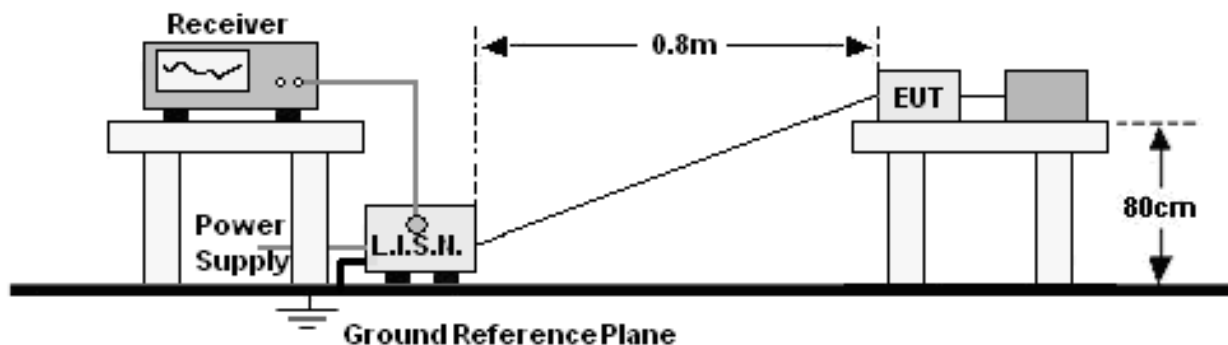
5.2 Test Instrument Used

Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S1509001	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenna (18GHz-40GH z)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40GH z)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5GH z	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

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

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

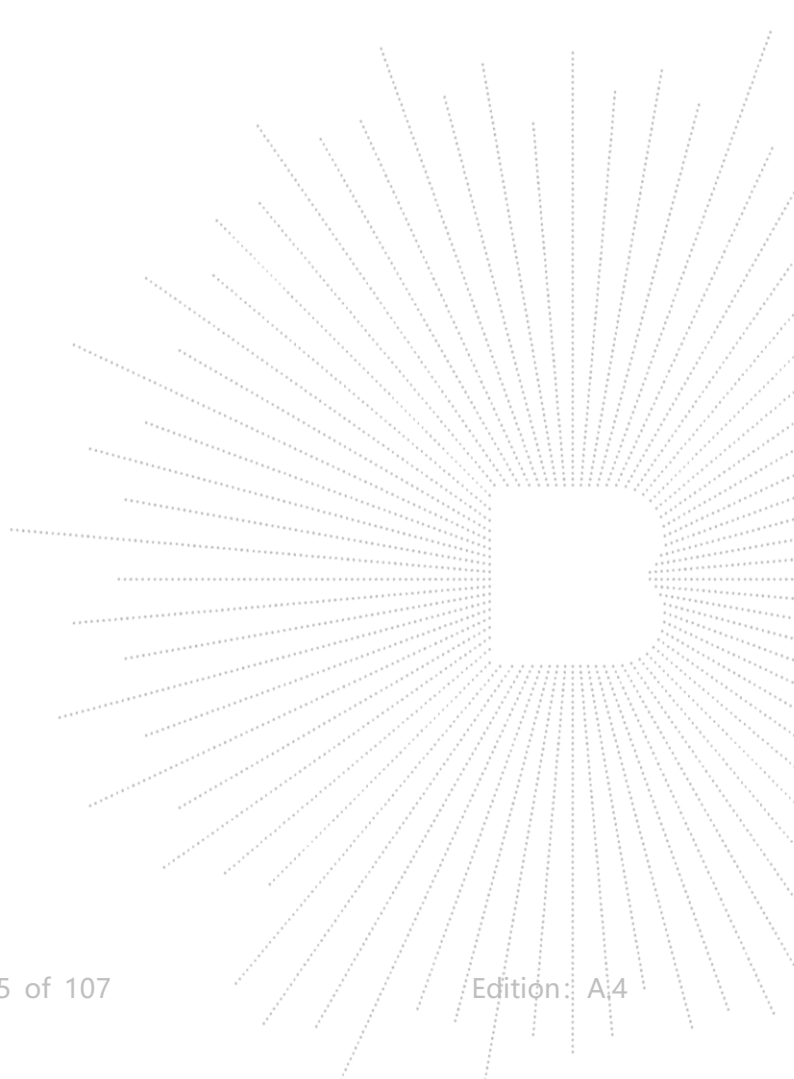
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

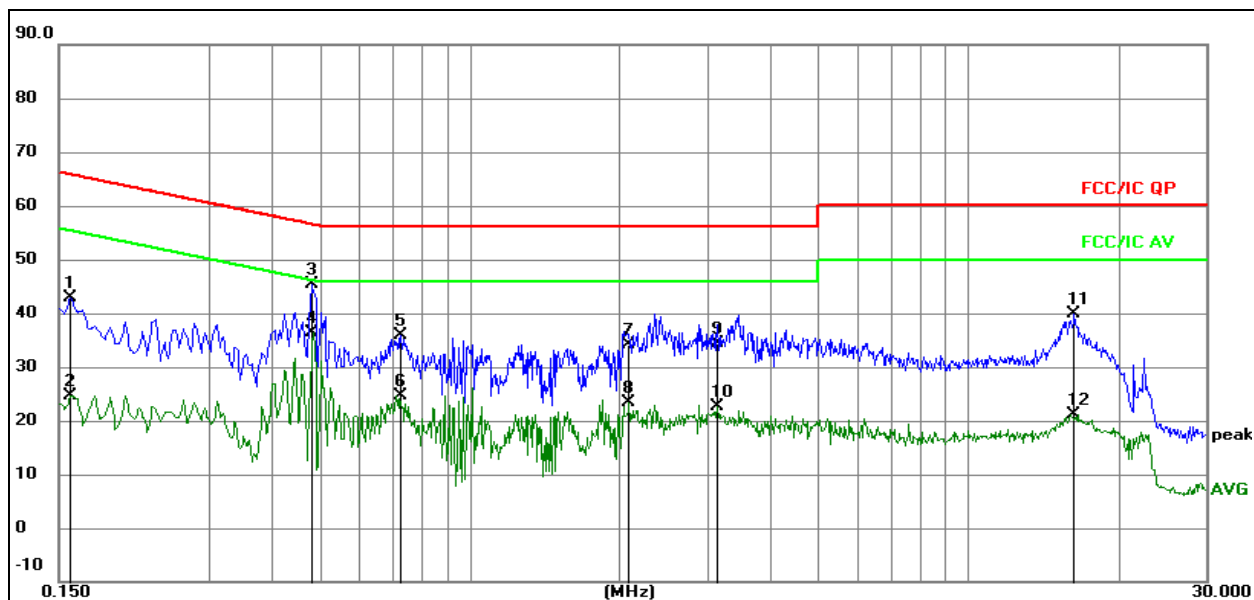
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Line
Test Voltage :	DC 5V	Test Mode:	Mode 1

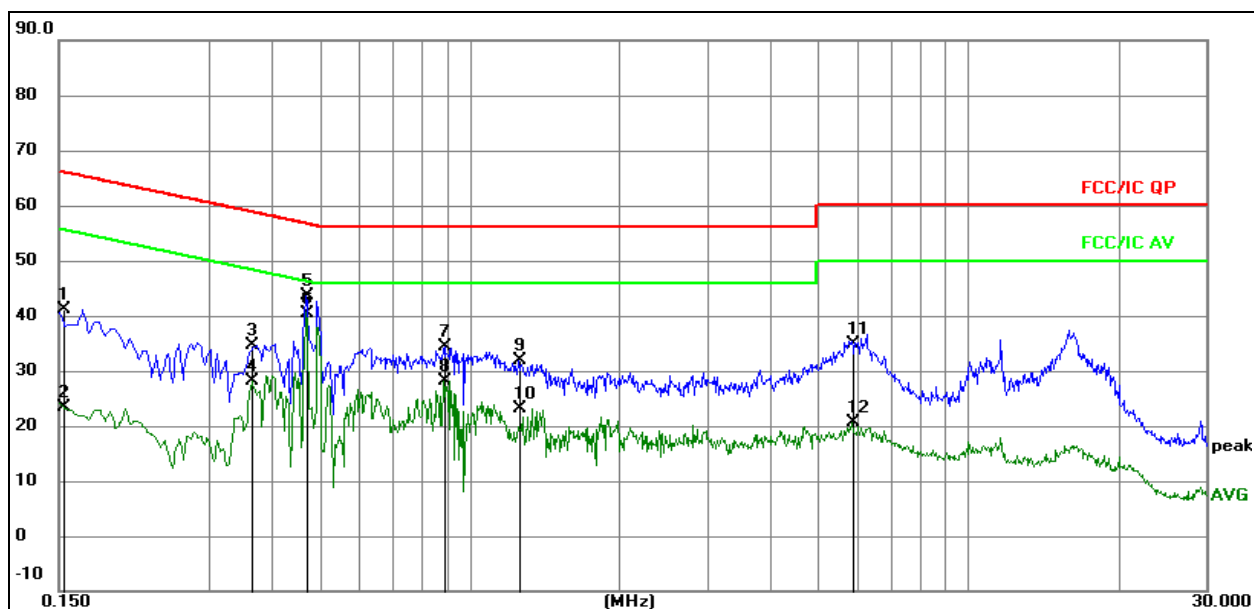


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1581	23.36	19.61	42.97	65.56	-22.59	QP
2	0.1581	4.99	19.61	24.60	55.56	-30.96	AVG
3	0.4811	25.83	19.62	45.45	56.32	-10.87	QP
4 *	0.4811	16.67	19.62	36.29	46.32	-10.03	AVG
5	0.7273	16.15	19.62	35.77	56.00	-20.23	QP
6	0.7273	5.04	19.62	24.66	46.00	-21.34	AVG
7	2.0878	14.52	19.63	34.15	56.00	-21.85	QP
8	2.0878	3.66	19.63	23.29	46.00	-22.71	AVG
9	3.1396	14.66	19.66	34.32	56.00	-21.68	QP
10	3.1396	2.88	19.66	22.54	46.00	-23.46	AVG
11	16.3118	20.04	19.77	39.81	60.00	-20.19	QP
12	16.3118	1.32	19.77	21.09	50.00	-28.91	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	DC 5V	Test Mode:	Mode 1



Remark:

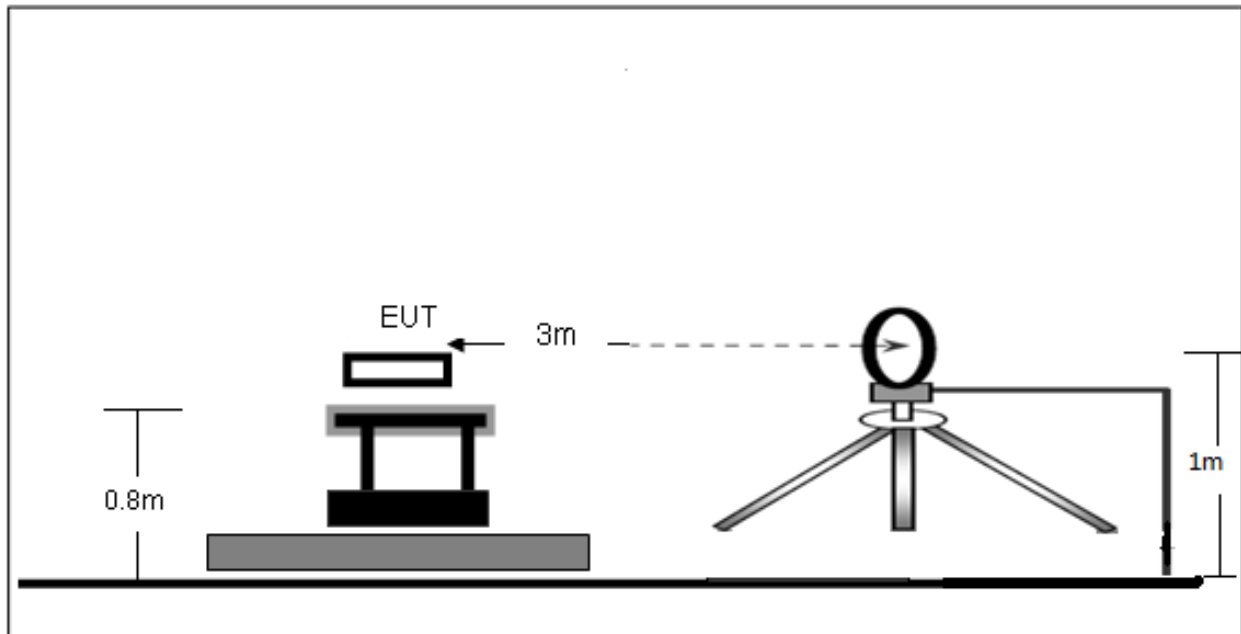
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1532	21.47	19.61	41.08	65.82	-24.74	QP
2	0.1532	3.89	19.61	23.50	55.82	-32.32	AVG
3	0.3660	15.07	19.62	34.69	58.59	-23.90	QP
4	0.3660	8.56	19.62	28.18	48.59	-20.41	AVG
5	0.4695	24.09	19.62	43.71	56.52	-12.81	QP
6 *	0.4695	20.88	19.62	40.50	46.52	-6.02	AVG
7	0.8925	14.64	19.62	34.26	56.00	-21.74	QP
8	0.8925	8.45	19.62	28.07	46.00	-17.93	AVG
9	1.2570	12.13	19.63	31.76	56.00	-24.24	QP
10	1.2570	3.42	19.63	23.05	46.00	-22.95	AVG
11	5.8560	15.22	19.72	34.94	60.00	-25.06	QP
12	5.8560	0.97	19.72	20.69	50.00	-29.31	AVG

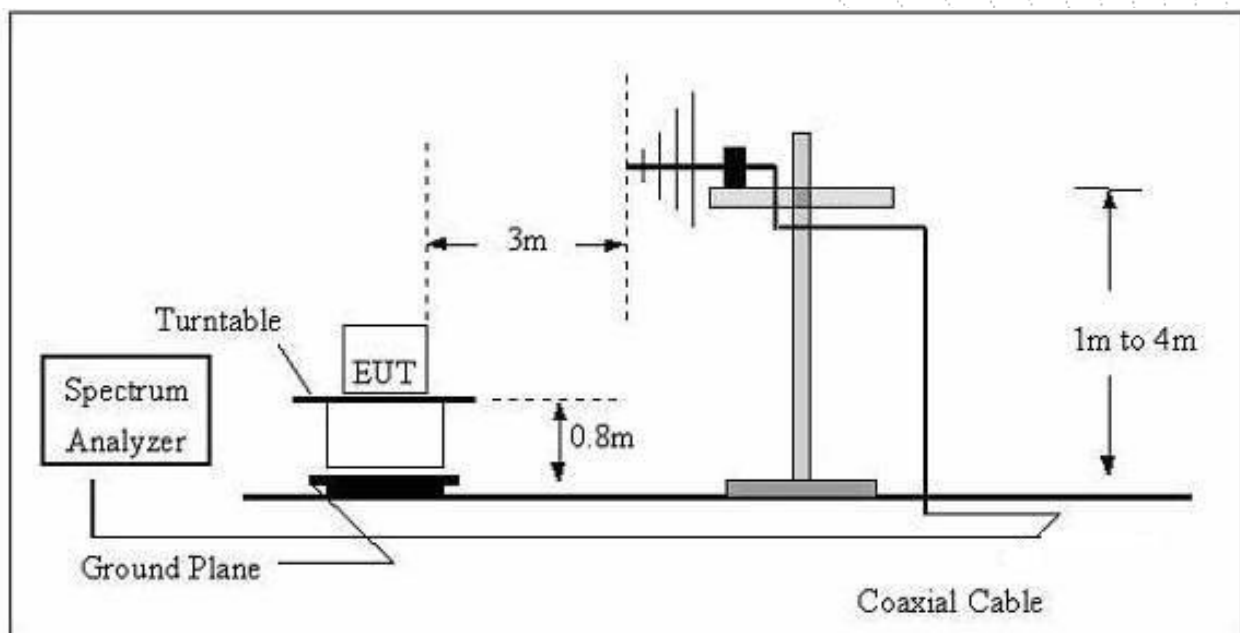
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

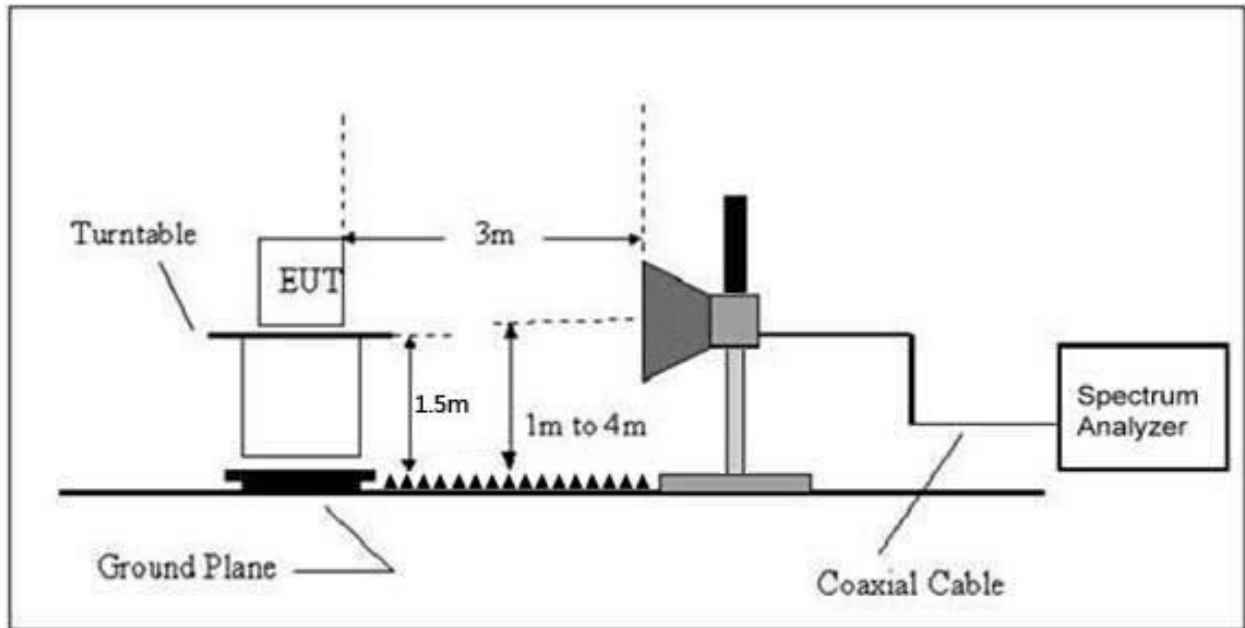
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 5V
Test Mode :	Mode 4	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

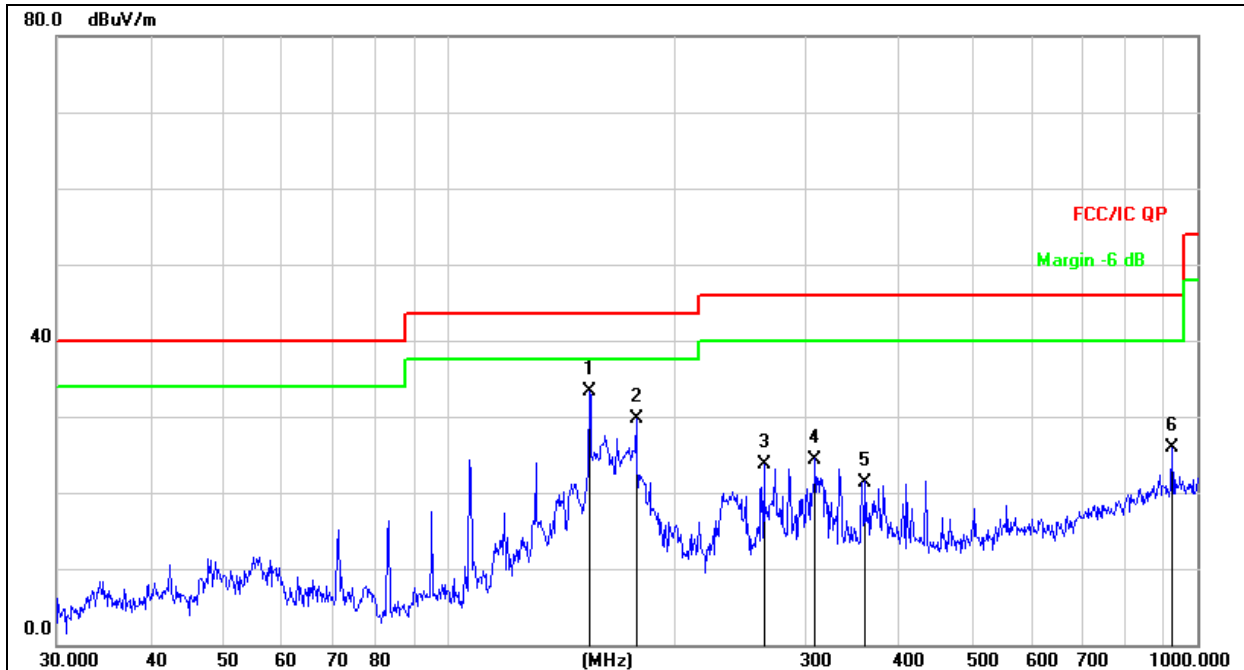
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance}) (dB)$;

Limit line = specific limits(dBuV) + distance extrapolation factor.

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 5V
Test Mode :	Mode 1	Polarization :	Horizontal

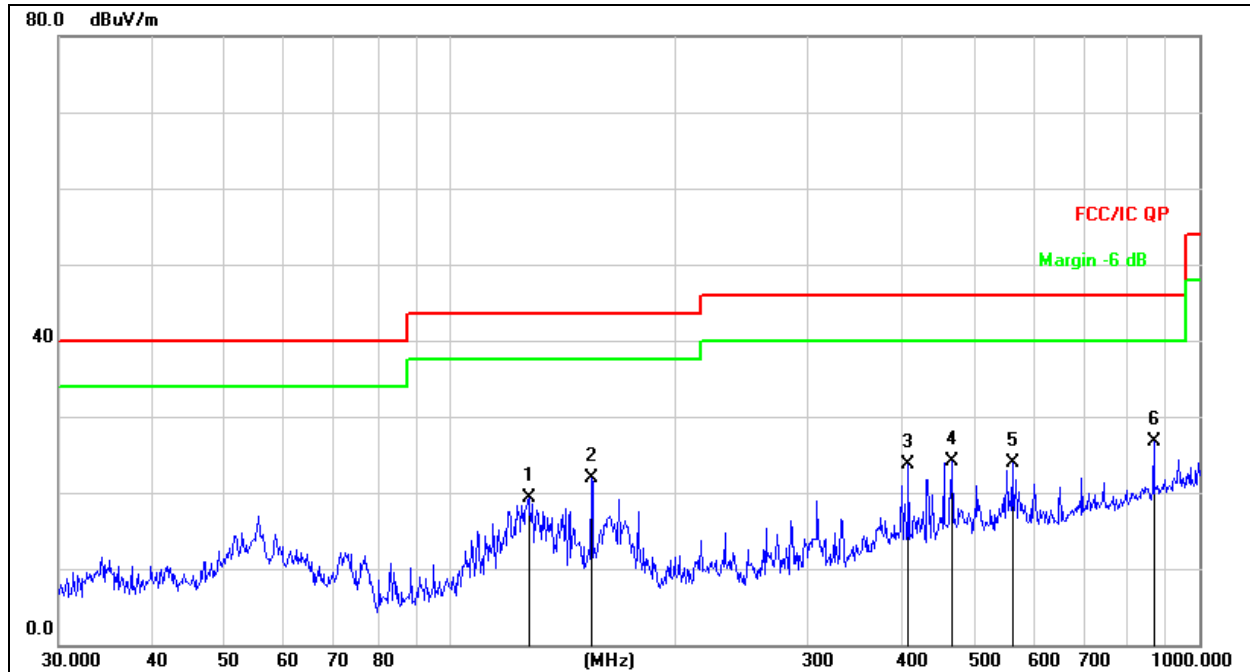


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	154.2786	52.57	-19.23	33.34	43.50	-10.16	QP
2	178.1327	47.44	-17.70	29.74	43.50	-13.76	QP
3	263.8190	38.34	-14.72	23.62	46.00	-22.38	QP
4	308.9126	37.76	-13.36	24.40	46.00	-21.60	QP
5	360.4476	33.39	-11.99	21.40	46.00	-24.60	QP
6	925.7563	27.14	-1.30	25.84	46.00	-20.16	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	DC 5V
Test Mode :	Mode 1	Polarization :	Vertical



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		127.2176	37.26	-18.03	19.23	43.50	-24.27	QP
2		154.2786	41.18	-19.23	21.95	43.50	-21.55	QP
3		408.9460	34.57	-10.89	23.68	46.00	-22.32	QP
4		467.2349	33.71	-9.61	24.10	46.00	-21.90	QP
5		562.6624	31.38	-7.39	23.99	46.00	-22.01	QP
6	*	869.1302	28.84	-2.13	26.71	46.00	-19.29	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.166	62.21	5.94	35.40	44.00	59.55	68.20	-8.65	PK
V	4434.166	43.49	5.94	35.40	44.00	40.83	54.00	-13.17	AV
V	10360.052	52.35	8.46	39.75	44.50	56.06	68.20	-12.14	PK
V	10360.052	43.91	8.46	39.75	44.50	47.62	54.00	-6.38	AV
V	15540.089	62.31	10.12	38.80	44.10	67.13	74.00	-6.87	PK
V	15540.089	43.21	10.12	38.80	42.70	49.43	54.00	-4.57	AV
H	4434.098	63.44	5.94	35.18	44.00	60.56	68.20	-7.64	PK
H	4434.098	43.73	5.94	35.18	44.00	40.85	54.00	-13.15	AV
H	10360.164	50.04	8.46	38.71	44.50	52.71	68.20	-15.49	PK
H	10360.164	40.79	8.46	38.71	44.50	43.46	54.00	-10.54	AV
H	15540.151	54.69	10.12	38.38	44.10	59.09	74.00	-14.91	PK
H	15540.151	43.54	10.12	38.38	44.10	47.94	54.00	-6.06	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.171	60.15	6.48	36.35	44.05	58.93	74.00	-15.07	PK
V	4592.171	43.89	6.48	36.35	44.05	42.67	54.00	-11.33	AV
V	10400.016	60.04	8.47	37.88	44.51	61.88	68.20	-6.32	PK
V	10400.016	43.49	8.47	37.88	44.51	45.33	54.00	-8.67	AV
V	15600.128	60.70	10.12	38.80	44.10	65.52	74.00	-8.48	PK
V	15600.128	43.18	10.12	38.80	42.70	49.40	54.00	-4.60	AV
H	4592.170	60.14	6.48	36.37	44.05	58.94	74.00	-15.06	PK
H	4592.170	43.12	6.48	36.37	44.05	41.92	54.00	-12.08	AV
H	10400.105	50.57	8.47	38.64	44.50	53.18	68.20	-15.02	PK
H	10400.105	44.06	8.47	38.64	44.50	46.67	54.00	-7.33	AV
H	15600.060	50.69	10.12	38.38	44.10	55.09	74.00	-18.91	PK
H	15600.060	42.02	10.12	38.38	44.10	46.42	54.00	-7.58	AV
High Channel (5240 MHz)-Above 1G									
V	4739.146	62.64	7.10	37.24	43.50	63.48	74.00	-10.52	PK
V	4739.146	43.34	7.10	37.24	43.50	44.18	54.00	-9.82	AV
V	10480.167	64.80	8.46	37.68	44.50	66.44	68.20	-1.76	PK
V	10480.167	43.94	8.46	37.68	44.50	45.58	54.00	-8.42	AV
V	15720.125	61.52	10.12	38.80	44.10	66.34	74.00	-7.66	PK
V	15720.125	43.52	10.12	38.80	42.70	49.74	54.00	-4.26	AV
H	4739.082	64.48	7.10	37.24	43.50	65.32	74.00	-8.68	PK
H	4739.082	43.39	7.10	37.24	43.50	44.23	54.00	-9.77	AV
H	10480.185	51.18	8.46	38.57	44.50	53.71	68.20	-14.49	PK
H	10480.185	44.68	8.46	38.57	44.50	47.21	54.00	-6.79	AV
H	15720.052	50.52	10.12	38.38	44.10	54.92	74.00	-19.08	PK
H	15720.052	40.83	10.12	38.38	44.10	45.23	54.00	-8.77	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX(5.1G) - 802.11n-HT20
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.114	61.82	5.94	35.40	44.00	59.16	68.20	-9.04	PK
V	4434.114	43.45	5.94	35.40	44.00	40.79	54.00	-13.21	AV
V	10360.124	63.37	8.46	39.75	44.50	67.08	68.20	-1.12	PK
V	10360.124	43.49	8.46	39.75	44.50	47.20	54.00	-6.80	AV
V	15540.132	60.93	10.12	38.80	44.10	65.75	74.00	-8.25	PK
V	15540.132	43.82	10.12	38.80	42.70	50.04	54.00	-3.96	AV
H	4434.142	63.52	5.94	35.18	44.00	60.64	68.20	-7.56	PK
H	4434.142	43.99	5.94	35.18	44.00	41.11	54.00	-12.89	AV
H	10360.090	53.19	8.46	38.71	44.50	55.86	68.20	-12.34	PK
H	10360.090	43.69	8.46	38.71	44.50	46.36	54.00	-7.64	AV
H	15540.153	50.32	10.12	38.38	44.10	54.72	74.00	-19.28	PK
H	15540.153	43.78	10.12	38.38	44.10	48.18	54.00	-5.82	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.184	63.72	6.48	36.35	44.05	62.50	74.00	-11.50	PK
V	4592.184	43.33	6.48	36.35	44.05	42.11	54.00	-11.89	AV
V	10400.155	62.58	8.47	37.88	44.51	64.42	68.20	-3.78	PK
V	10400.155	43.78	8.47	37.88	44.51	45.62	54.00	-8.38	AV
V	15600.112	60.60	10.12	38.80	44.10	65.42	74.00	-8.58	PK
V	15600.112	43.22	10.12	38.80	42.70	49.44	54.00	-4.56	AV
H	4592.063	60.32	6.48	36.37	44.05	59.12	74.00	-14.88	PK
H	4592.063	43.36	6.48	36.37	44.05	42.16	54.00	-11.84	AV
H	10400.198	50.20	8.47	38.64	44.50	52.81	68.20	-15.39	PK
H	10400.198	40.51	8.47	38.64	44.50	43.12	54.00	-10.88	AV
H	15600.027	50.29	10.12	38.38	44.10	54.69	74.00	-19.31	PK
H	15600.027	43.03	10.12	38.38	44.10	47.43	54.00	-6.57	AV
High Channel (5240 MHz)-Above 1G									
V	4739.050	63.07	7.10	37.24	43.50	63.91	74.00	-10.09	PK
V	4739.050	43.59	7.10	37.24	43.50	44.43	54.00	-9.57	AV
V	10480.191	61.85	8.46	37.68	44.50	63.49	68.20	-4.71	PK
V	10480.191	43.97	8.46	37.68	44.50	45.61	54.00	-8.39	AV
V	15720.076	64.89	10.12	38.80	44.10	69.71	74.00	-4.29	PK
V	15720.076	43.99	10.12	38.80	42.70	50.21	54.00	-3.79	AV
H	4739.171	60.16	7.10	37.24	43.50	61.00	74.00	-13.00	PK
H	4739.171	43.05	7.10	37.24	43.50	43.89	54.00	-10.11	AV
H	10480.167	51.38	8.46	38.57	44.50	53.91	68.20	-14.29	PK
H	10480.167	42.60	8.46	38.57	44.50	45.13	54.00	-8.87	AV
H	15720.184	51.75	10.12	38.38	44.10	56.15	74.00	-17.85	PK
H	15720.184	41.11	10.12	38.38	44.10	45.51	54.00	-8.49	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX(5.1G) - 802.11n-HT40
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G									
V	4434.139	60.34	5.94	35.40	44.00	57.68	68.20	-10.52	PK
V	4434.139	43.83	5.94	35.40	44.00	41.17	54.00	-12.83	AV
V	10380.101	61.70	8.46	39.75	44.50	65.41	68.20	-2.79	PK
V	10380.101	43.42	8.46	39.75	44.50	47.13	54.00	-6.87	AV
V	15570.105	60.58	10.12	38.80	44.10	65.40	74.00	-8.60	PK
V	15570.105	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4434.170	61.30	5.94	35.18	44.00	58.42	74.00	-15.58	PK
H	4434.170	43.21	5.94	35.18	44.00	40.33	54.00	-13.67	AV
H	10380.197	50.27	8.46	38.71	44.50	52.94	68.20	-15.26	PK
H	10380.197	41.19	8.46	38.71	44.50	43.86	54.00	-10.14	AV
H	15570.187	52.43	10.12	38.38	44.10	56.83	74.00	-17.17	PK
H	15570.187	44.61	10.12	38.38	44.10	49.01	54.00	-4.99	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.133	62.91	6.48	36.35	44.05	61.69	68.20	-6.51	PK
V	4739.133	43.65	6.48	36.35	44.05	42.43	54.00	-11.57	AV
V	10460.140	62.66	8.47	37.88	44.51	64.50	68.20	-3.70	PK
V	10460.140	43.15	8.47	37.88	44.51	44.99	54.00	-9.01	AV
V	15690.053	62.65	10.12	38.80	44.10	67.47	74.00	-6.53	PK
V	15690.053	43.56	10.12	38.80	42.70	49.78	54.00	-4.22	AV
H	4739.104	62.21	6.48	36.37	44.05	61.01	68.20	-7.19	PK
H	4739.104	43.16	6.48	36.37	44.05	41.96	54.00	-12.04	AV
H	10460.053	54.08	8.47	38.64	44.50	56.69	68.20	-11.51	PK
H	10460.053	41.44	8.47	38.64	44.50	44.05	54.00	-9.95	AV
H	15690.146	50.43	10.12	38.38	44.10	54.83	74.00	-19.17	PK
H	15690.146	43.60	10.12	38.38	44.10	48.00	54.00	-6.00	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX(5.1G) - 802.11 AC20
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
V	4434.103	61.09	5.94	35.40	44.00	58.43	68.20	-9.77	PK
V	4434.103	43.60	5.94	35.40	44.00	40.94	54.00	-13.06	AV
V	10360.014	53.41	8.46	39.75	44.50	57.12	68.20	-11.08	PK
V	10360.014	43.45	8.46	39.75	44.50	47.16	54.00	-6.84	AV
V	15540.037	63.87	10.12	38.80	44.10	68.69	74.00	-5.31	PK
V	15540.037	43.41	10.12	38.80	42.70	49.63	54.00	-4.37	AV
H	4434.115	60.43	5.94	35.18	44.00	57.55	68.20	-10.65	PK
H	4434.115	43.64	5.94	35.18	44.00	40.76	54.00	-13.24	AV
H	10360.021	52.69	8.46	38.71	44.50	55.36	68.20	-10.65	PK
H	10360.021	43.34	8.46	38.71	44.50	46.01	54.00	-7.99	AV
H	15540.001	54.96	10.12	38.38	44.10	59.36	74.00	-14.64	PK
H	15540.001	43.18	10.12	38.38	44.10	47.58	54.00	-6.42	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.036	61.97	6.48	36.35	44.05	60.75	74.00	-13.25	PK
V	4592.036	43.86	6.48	36.35	44.05	42.64	54.00	-11.36	AV
V	10400.037	62.49	8.47	37.88	44.51	64.33	68.20	-3.87	PK
V	10400.037	43.94	8.47	37.88	44.51	45.78	54.00	-8.22	AV
V	15600.066	61.11	10.12	38.80	44.10	65.93	74.00	-8.07	PK
V	15600.066	43.02	10.12	38.80	42.70	49.24	54.00	-4.76	AV
H	4592.015	63.27	6.48	36.37	44.05	62.07	74.00	-11.93	PK
H	4592.015	43.10	6.48	36.37	44.05	41.90	54.00	-12.10	AV
H	10400.199	50.65	8.47	38.64	44.50	53.26	68.20	-14.94	PK
H	10400.199	40.25	8.47	38.64	44.50	42.86	54.00	-11.14	AV
H	15600.111	53.73	10.12	38.38	44.10	58.13	74.00	-15.87	PK
H	15600.111	40.61	10.12	38.38	44.10	45.01	54.00	-8.99	AV
High Channel (5240 MHz)-Above 1G									
V	4739.069	62.45	7.10	37.24	43.50	63.29	74.00	-10.71	PK
V	4739.069	43.58	7.10	37.24	43.50	44.42	54.00	-9.58	AV
V	10480.070	63.82	8.46	37.68	44.50	65.46	68.20	-2.74	PK
V	10480.070	43.69	8.46	37.68	44.50	45.33	54.00	-8.67	AV
V	15720.058	62.61	10.12	38.80	44.10	67.43	74.00	-6.57	PK
V	15720.058	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	4739.171	63.70	7.10	37.24	43.50	64.54	74.00	-9.46	PK
H	4739.171	43.68	7.10	37.24	43.50	44.52	54.00	-9.48	AV
H	10480.115	52.24	8.46	38.57	44.50	54.77	68.20	-13.43	PK
H	10480.115	44.60	8.46	38.57	44.50	47.13	54.00	-6.87	AV
H	15720.116	50.35	10.12	38.38	44.10	54.75	74.00	-19.25	PK
H	15720.116	43.64	10.12	38.38	44.10	48.04	54.00	-5.96	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX(5.1G) - 802.11 AC40
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G									
V	4434.189	64.98	5.94	35.40	44.00	62.32	68.20	-5.88	PK
V	4434.189	43.40	5.94	35.40	44.00	40.74	54.00	-13.26	AV
V	10380.117	63.79	8.46	39.75	44.50	67.50	68.20	-0.70	PK
V	10380.117	43.93	8.46	39.75	44.50	47.64	54.00	-6.36	AV
V	15570.152	63.04	10.12	38.80	44.10	67.86	74.00	-6.14	PK
V	15570.152	43.64	10.12	38.80	42.70	49.86	54.00	-4.14	AV
H	4434.001	60.00	5.94	35.18	44.00	57.12	68.20	-11.08	PK
H	4434.001	43.17	5.94	35.18	44.00	40.29	54.00	-13.71	AV
H	10380.020	50.66	8.46	38.71	44.50	53.33	68.20	-14.87	PK
H	10380.020	42.66	8.46	38.71	44.50	45.33	54.00	-8.67	AV
H	15570.008	51.68	10.12	38.38	44.10	56.08	74.00	-17.92	PK
H	15570.008	41.93	10.12	38.38	44.10	46.33	54.00	-7.67	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.019	63.47	6.48	36.35	44.05	62.25	74.00	-11.75	PK
V	4739.019	43.06	6.48	36.35	44.05	41.84	54.00	-12.16	AV
V	10460.180	64.64	8.47	37.88	44.51	66.48	68.20	-1.72	PK
V	10460.180	43.53	8.47	37.88	44.51	45.37	54.00	-8.63	AV
V	15690.018	60.62	10.12	38.80	44.10	65.44	74.00	-8.56	PK
V	15690.018	43.68	10.12	38.80	42.70	49.90	54.00	-4.10	AV
H	4739.039	63.10	6.48	36.37	44.05	61.90	74.00	-12.10	PK
H	4739.039	43.12	6.48	36.37	44.05	41.92	54.00	-12.08	AV
H	10460.150	53.10	8.47	38.64	44.50	55.71	68.20	-12.49	PK
H	10460.150	41.68	8.47	38.64	44.50	44.29	54.00	-9.71	AV
H	15690.025	52.31	10.12	38.38	44.10	56.71	74.00	-17.29	PK
H	15690.025	40.46	10.12	38.38	44.10	44.86	54.00	-9.14	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX(5.1G) - 802.11 AC80
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Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
(5210 MHz)-Above 1G									
V	4434.057	63.62	5.94	35.40	44.00	60.96	68.20	-7.24	PK
V	4434.057	43.34	5.94	35.40	44.00	40.68	54.00	-13.32	AV
V	10420.060	62.50	8.46	39.75	44.50	66.21	68.20	-1.99	PK
V	10420.060	43.34	8.46	39.75	44.50	47.05	54.00	-6.95	AV
V	15630.158	64.19	10.12	38.80	44.10	69.01	74.00	-4.99	PK
V	15630.158	43.70	10.12	38.80	42.70	49.92	54.00	-4.08	AV
H	4434.194	61.21	5.94	35.18	44.00	58.33	68.20	-9.87	PK
H	4434.194	43.17	5.94	35.18	44.00	40.29	54.00	-13.71	AV
H	10420.128	51.33	8.46	38.71	44.50	54.00	68.20	-14.20	PK
H	10420.128	43.47	8.46	38.71	44.50	46.14	54.00	-7.86	AV
H	15630.008	53.57	10.12	38.38	44.10	57.97	74.00	-16.03	PK
H	15630.008	43.88	10.12	38.38	44.10	48.28	54.00	-5.72	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11a
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.018	56.25	5.94	35.40	44.00	53.59	74.00	-20.41	PK
V	4679.018	43.57	5.94	35.40	44.00	40.91	54.00	-13.09	AV
V	11490.165	56.57	8.46	39.75	44.50	60.28	68.20	-7.92	PK
V	11490.165	43.51	8.46	39.75	44.50	47.22	54.00	-6.78	AV
V	17235.155	58.34	10.12	38.80	44.10	63.16	68.20	-5.04	PK
V	17235.155	43.45	10.12	38.80	42.70	49.67	54.00	-4.33	AV
H	4679.143	57.15	5.94	35.18	44.00	54.27	74.00	-19.73	PK
H	4679.143	43.43	5.94	35.18	44.00	40.55	54.00	-13.45	AV
H	11490.035	52.94	8.46	38.71	44.50	55.61	68.20	-12.59	PK
H	11490.035	40.40	8.46	38.71	44.50	43.07	54.00	-10.93	AV
H	17235.123	51.80	10.12	38.38	44.10	56.20	68.2	-12.00	PK
H	17235.123	41.80	10.12	38.38	44.10	46.20	54.00	-7.80	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.171	58.95	6.48	36.35	44.05	57.73	74.00	-16.27	PK
V	4592.171	43.15	6.48	36.35	44.05	41.93	54.00	-12.07	AV
V	11570.048	59.91	8.47	37.88	44.51	61.75	68.20	-6.45	PK
V	11570.048	43.36	8.47	37.88	44.51	45.20	54.00	-8.80	AV
V	17355.080	57.06	10.12	38.80	44.10	61.88	68.20	-6.32	PK
V	17355.080	39.01	10.12	38.80	42.70	45.23	54.00	-8.77	AV
H	4592.176	55.75	6.48	36.37	44.05	54.55	74.00	-19.45	PK
H	4592.176	43.52	6.48	36.37	44.05	42.32	54.00	-11.68	AV
H	11570.022	52.60	8.47	38.64	44.50	55.21	68.20	-12.99	PK
H	11570.022	42.30	8.47	38.64	44.50	44.91	54.00	-9.09	AV
H	17355.065	52.64	10.12	38.38	44.10	57.04	68.2	-11.16	PK
H	17355.065	43.95	10.12	38.38	44.10	48.35	54.00	-5.65	AV
High Channel (5825 MHz)-Above 1G									
V	6039.165	57.95	7.10	37.24	43.50	58.79	68.20	-9.41	PK
V	6039.165	43.67	7.10	37.24	43.50	44.51	54.00	-9.49	AV
V	11650.087	58.92	8.46	37.68	44.50	60.56	74.00	-13.44	PK
V	11650.087	43.52	8.46	37.68	44.50	45.16	54.00	-8.84	AV
V	17475.066	57.56	10.12	38.80	44.10	62.38	68.20	-5.82	PK
V	17475.066	43.18	10.12	38.80	42.70	49.40	54.00	-4.60	AV
H	6039.165	57.12	7.10	37.24	43.50	57.96	68.20	-10.24	PK
H	6039.165	43.92	7.10	37.24	43.50	44.76	54.00	-9.24	AV
H	11650.117	53.10	8.46	38.57	44.50	55.63	74.00	-18.37	PK
H	11650.117	44.14	8.46	38.57	44.50	46.67	54.00	-7.33	AV
H	17475.111	50.21	10.12	38.38	44.10	54.61	68.20	-13.59	PK
H	17475.111	41.02	10.12	38.38	44.10	45.42	54.00	-8.58	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.