

FCC Test Report (Co-Located)

Report No.: RFBBNT-WTW-P22061057

FCC ID: SLE-LE910CXNF

Test Model: UC-3121-T-US-LX

Series Model: UC-3nnn-v-w-x-y-zzzzzz and OnCell 31nn-LTE-n-x-w-zzzzzz
(Refer to item 3.1 for more details)

Received Date: Jul. 01, 2022

Test Date: Sep. 26 ~ Sep. 28, 2022

Issued Date: Nov. 08, 2022

Applicant: Moxa Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration /
Designation Number:** 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBBNT-WTW-P22061057	Original release.	Nov. 08, 2022

1 Certificate of Conformity

Product: UC-3100 Series wireless computer , OnCell 3100 Series cellular gateway

Brand: MOXA

Test Model: UC-3121-T-US-LX

Series Model: UC-3nnn-v-w-x-y-zzzzzz and OnCell 31nn-LTE-n-x-w-zzzzzz
(Refer to item 3.1 for more details)

Sample Status: Engineering sample

Applicant: Moxa Inc.

Test Date: Sep. 26 ~ Sep. 28, 2022

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)
FCC Part 22, Subpart H
FCC Part 24, Subpart E
FCC Part 27, Subpart C, L, H, F
FCC Part 90, Subpart R
ANSI C63.10:2013
ANSI C63.26:2015

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu , **Date:** Nov. 08, 2022
Gina Liu / Specialist

Approved by : Jeremy Lin , **Date:** Nov. 08, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) FCC Part 22, Subpart H FCC Part 24, Subpart E FCC Part 27, Subpart L, F FCC Part 90, Subpart R		
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d) 15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.3dB at 4874.00MHz.
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -30.3dB at 1673.20MHz.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -33.7dB at 3760.00MHz.
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.7dB at 3424.80MHz.
2.1053 27.53(c)(2) & (f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.9dB at 1564.00MHz.
2.1053 90.543 (e)(3) & (f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -2.2dB at 1591.00MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	UC-3100 Series wireless computer , OnCell 3100 Series cellular gateway	
Brand	MOXA	
Test Model	UC-3121-T-US-LX	
Series Model	UC-3nnn-v-w-x-y-zzzzzz and OnCell 31nn-LTE-n-x-w-zzzzzz	
Model Difference	Refer to note as below	
Sample Status	Engineering sample	
Power Supply Rating	Input Voltage: 9 to 36Vdc Input Current: 800mA @ 12Vdc	
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	BT EDR	GFSK, $\pi/4$ -DQPSK, 8DPSK
	BT LE	GFSK
	EDGE	8PSK
	WCDMA	BPSK, QPSK
	HSDPA	BPSK
	HSUPA	QPSK
	LTE	QPSK, 16QAM
Operating Frequency	WLAN	2412~2462MHz, 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz
	BT EDR	2402~2480 MHz
	BT LE	2402~2480 MHz
	WCDMA Band 5	826.4~846.6MHz
	LTE Band 5 (Channel Bandwidth 1.4MHz)	824.7~848.3MHz
	LTE Band 5 (Channel Bandwidth 3MHz)	825.5~847.5MHz
	LTE Band 5 (Channel Bandwidth 5MHz)	826.5~846.5MHz
	LTE Band 5 (Channel Bandwidth 10MHz)	829.0~844.0MHz
	WCDMA Band 2	1852.4~1907.6MHz
	LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7~1909.3MHz
	LTE Band 2 (Channel Bandwidth 3MHz)	1851.5~1908.5MHz
	LTE Band 2 (Channel Bandwidth 5MHz)	1852.5~1907.5MHz
	LTE Band 2 (Channel Bandwidth 10MHz)	1855.0~1905.0MHz
	LTE Band 2 (Channel Bandwidth 15MHz)	1857.5~1902.5MHz
	LTE Band 2 (Channel Bandwidth 20MHz)	1860.0~1900.0MHz
	WCDMA Band 4	1712.4~1752.6MHz
	LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7~1754.3MHz
	LTE Band 4 (Channel Bandwidth 3MHz)	1711.5~1753.5MHz
	LTE Band 4 (Channel Bandwidth 5MHz)	1712.5~1752.5MHz
	LTE Band 4 (Channel Bandwidth 10MHz)	1715~1750MHz
	LTE Band 4 (Channel Bandwidth 15MHz)	1717.5~1747.5MHz
	LTE Band 4 (Channel Bandwidth 20MHz)	1720~1745MHz
	LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7~715.3MHz
	LTE Band 12 (Channel Bandwidth 3MHz)	700.5~714.5MHz
LTE Band 12 (Channel Bandwidth 5MHz)	701.5~713.5MHz	

	LTE Band 12 (Channel Bandwidth 10MHz)	704~711MHz
	LTE Band 13 (Channel Bandwidth 5MHz)	779.5~784.5MHz
	LTE Band 13 (Channel Bandwidth 10MHz)	782MHz
Operating Frequency	LTE Band 14 (Channel Bandwidth 5 MHz)	790.5~795.5 MHz
	LTE Band 14 (Channel Bandwidth10 MHz)	793 MHz
	LTE Band 66 (Channel Bandwidth 1.4MHz)	1710.7~1779.3 MHz
	LTE Band 66 (Channel Bandwidth 3MHz)	1711.5~1778.5 MHz
	LTE Band 66 (Channel Bandwidth 5MHz)	1712.5~1777.5 MHz
	LTE Band 66 (Channel Bandwidth 10MHz)	1715~1775 MHz
	LTE Band 66 (Channel Bandwidth 15MHz)	1717.5~1772.5 MHz
	LTE Band 66 (Channel Bandwidth 20MHz)	1720~1770 MHz
	LTE Band 71 (Channel Bandwidth 5MHz)	665.5~695.5 MHz
	LTE Band 71 (Channel Bandwidth 10MHz)	668~693 MHz
	LTE Band 71 (Channel Bandwidth 15MHz)	670.5~690.5 MHz
	LTE Band 71 (Channel Bandwidth 20MHz)	673~688 MHz
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	NA	
Cable Supplied	0.13m shielded power cable w/o core	

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to the original BV CPS report no.: RF190314C24. The difference compared with original report is adding BT function and remove antenna extension cable of EUT, evaluating simultaneous operation of this WWAN module (SLE-LE910CXNF) with another certified BT/WLAN module (Z64-WL18DBMOD) inside the host device described in this filing.
2. The WLAN/BT module (FCC ID: Z64-WL18DBMOD, Brand: Texas Instruments, Model: WL18MODGI) is collocated in the host device.
3. All models are listed as below.

Model	Definition
UC-3nnn-v-w-x-y-zzzzzz and OnCell3nnn-v-w-x-y-zzzzzz	n = 0-9 (standards for different model issue) v = CT or blank (standards for coating issue) w = T or blank (standard for temperature issue) x = US, EU, AU or blank (standards for regional issue) y = CE, LX or blank (standards for OS issue) z = 0-9, A-Z, or blank (standards for marketing issue)

4. The following models are provided by client and used for testing. Model UC-3121-T-US-LX is the representative for final test.

Model	Difference
UC-3101-T-US-LX	1 GHz CPU, 1GB RAM, 8 GB eMMC, 2 Ethernet ports, 1 serial port, 1 USB port, 1 GPS, onboard LTE-US cat.1 module and Debian 9 (kernel 4.4) pre-installed, -40 to 70°C operating temperature
UC-3111-T-US-LX	1 GHz CPU, 1GB RAM, 8GB eMMC, 2 Ethernet ports, 2 serial port, 1 USB port, 1 GPS, 1 SD slot, onboard LTE-US cat.1 module and Debian 9 (kernel 4.4) pre-installed, -40 to 70°C operating temperature
UC-3121-T-US-LX	1 GHz CPU, 1GB RAM, 8GB eMMC, 2 Ethernet ports, 1 serial port, 1 USB port, 1 GPS, 1 CAN port, 1 SD slot, onboard LTE-US cat.1 module and Debian 9 (kernel 4.4) pre-installed, -40 to 70°C operating temperature
OnCell 3120-LTE-1-US-T	Industrial LTE Cat 1 cellular gateway, B2/B4/B5/B12/B13/B14/B66/B71, 1 x RS232/422/485 serial port, 2 x 10/100BaseT(X) RJ45 ports, 0 to 55°C
OnCell 3120-LTE-1-US	Industrial LTE Cat 1 cellular gateway, B2/B4/B5/B12/B13/B14/B66/B71, 1 x RS232/422/485 serial port, 2 x 10/100BaseT(X) RJ45 ports, -30 to 70°C

*OnCell 3120 and UC-3101: The only difference is UI interface.

5. The EUT incorporates a MIMO function. Physically, the host device provides 2 completed transmitters and 2 receivers.

Band	Modulation Mode	TX Function
2.4GHz	802.11b	1TX
	802.11g	1TX
	802.11n (HT20)	2TX
	802.11n (HT40)	1TX
5GHz	802.11a	1TX
	802.11n (HT20)	1TX
	802.11n (HT40)	1TX

6. The EUT uses following antennas.

WLAN / BT			
Type	Dipole	Connecter	RP-SMA
Brand	KINSUN INDUSTRIES INC.	Model	1710010100213 (ANT-WDB-ARM-02)
Frequency	2.4GHz / BT	5GHz	5.8GHz
Gain (dBi) (w/o cable loss)	1.8	1.0	-4.5

WWAN								
Type	Dipole			Connecter			SMA(Male) Swivel Plug	
Brand	SANAV			Serial No			ANT-LTE-ASM-05 BK	
Band	B2	B4	B5	B12	B13	B14	B66	B71
Gain (dBi) (w/o cable loss)	1.94	2.85	1.82	0.47	4.04	4.04	2.85	0.47

3.2 Description of Test Modes

WLAN 2412~2462MHz:

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

WLAN 5180~5240MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

WLAN 5260~5320MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

WLAN 5500~5700MHz

8 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz		

WLAN 5745~5825MHz

5 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

BT EDR

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

BT LE

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to			Description
	RE \geq 1G	RE $<$ 1G	OB	
-	√	√	√	-

Where RE \geq 1G: Radiated Emission above 1GHz & Bandedge Measurement RE $<$ 1G: Radiated Emission below 1GHz
 OB: Conducted Out-Band Emission Measurement

Note:

- The EUT had been pre-tested on the positioned of X-plane & Z-plane. The worst cases were found when positioned on Z-plane.

Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Tested Channel	Remark
1	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 2	9400 (1880.0MHz)	-
2	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 4	1312 (1712.4MHz)	-
3	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 5	4233 (846.6MHz)	-
4	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	LTE Band 13	23230 (782MHz)	-
5	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	LTE Band 14	23355 (795.5MHz)	-
6	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 2	9400 (1880.0MHz)	-
7	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 4	1312 (1712.4MHz)	-
8	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 5	4233 (846.6MHz)	-
9	802.11a	116	-
	BT EDR_GFSK	0	-
	LTE Band 13	23230 (782MHz)	-
10	802.11a	116	-
	BT EDR_GFSK	0	-
	LTE Band 14	23355 (795.5MHz)	-

*The above test mode was found to be the worst cases test mode and had been chosen for final test.

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Tested Channel	Remark
1	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 2	9400 (1880.0MHz)	-
2	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 4	1312 (1712.4MHz)	-
3	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	WCDMA Band 5	4233 (846.6MHz)	-
4	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	LTE Band 13	23230 (782MHz)	-
5	802.11n (HT20)	6	-
	BT EDR_GFSK	0	-
	LTE Band 14	23355 (795.5MHz)	-
6	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 2	9400 (1880.0MHz)	-
7	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 4	1312 (1712.4MHz)	-
8	802.11a	116	-
	BT EDR_GFSK	0	-
	WCDMA Band 5	4233 (846.6MHz)	-
9	802.11a	116	-
	BT EDR_GFSK	0	-
	LTE Band 13	23230 (782MHz)	-
10	802.11a	116	-
	BT EDR_GFSK	0	-
	LTE Band 14	23355 (795.5MHz)	-

*The above test mode was found to be the worst cases test mode and had been chosen for final test.

Conducted Out-Band Emission Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Tested Channel	Modulation Technology
1	802.11n (HT20) + BT	6+ 0	OFDM
			GFSK
2	802.11a + BT	116+ 0	OFDM
			GFSK

*The above test mode was found to be the worst cases test mode and had been chosen for final test.

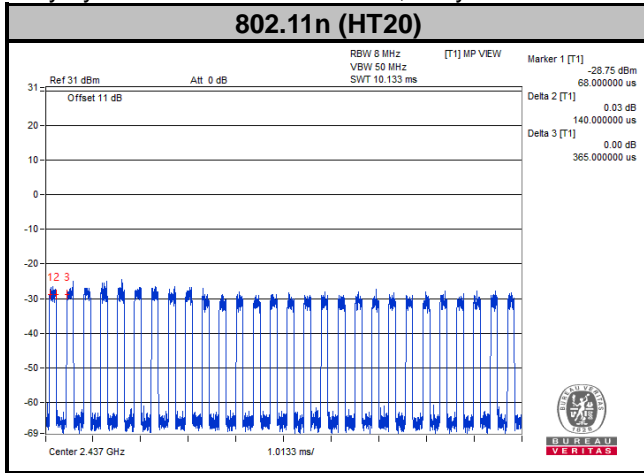
Test Condition:

Applicable to	Environmental Conditions	Input Power (system)	Tested by
RE≥1G	24 deg. C, 65% RH	120Vac, 60Hz	Randy Wu
RE<1G	24 deg. C, 65% RH	120Vac, 60Hz	Randy Wu
OB	24 deg. C, 65% RH	120Vac, 60Hz	Randy Wu

3.3 Duty Cycle of Test Signal

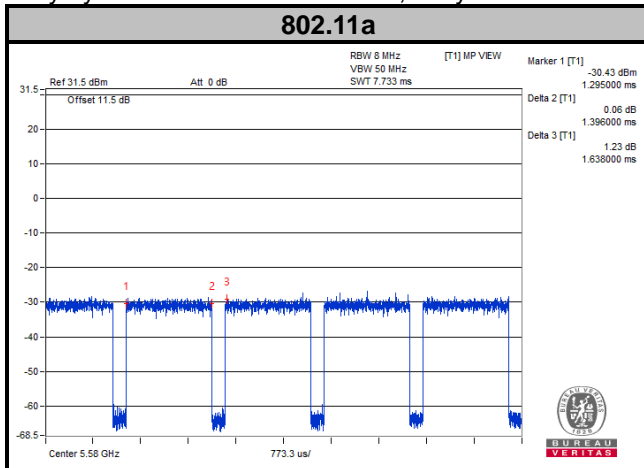
WLAN 2.4G

Duty cycle = $0.140/0.365 = 0.384$, Duty factor = $20 * \log(0.384) = -8.32$



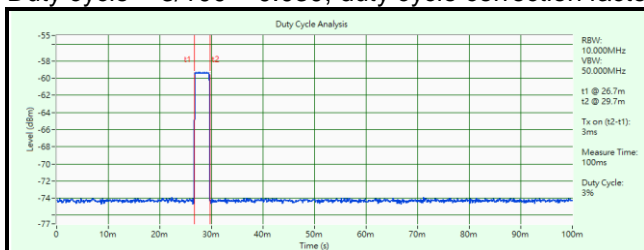
WLAN 5G

Duty cycle = $1.396/1.638 = 0.852$, Duty factor = $20 * \log(0.852) = -1.39$



BT

Duty cycle = $3/100 = 0.030$, duty cycle correction factor = $20 * \log(0.030) = -30.5$



3.4 Description of Support Units

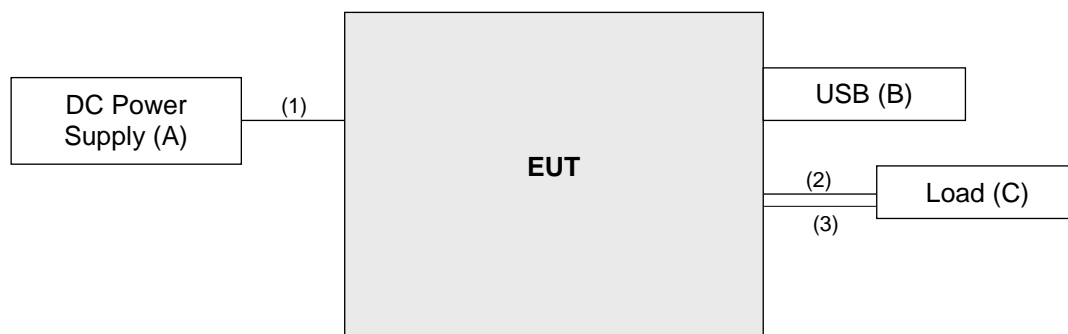
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	DC Power supply	JIN YIH Technology	SP3051	SP30512113422	NA	-
B.	USB Type A	NA	NA	NA	NA	-
C.	Load	NA	NA	NA	NA	-

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Line	1	2	N	0	-
2.	LAN	1	1	N	0	-
3.	LAN	1	1	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)

FCC Part 15, Subpart E (15.407)

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart L, H, F

FCC Part 90, Subpart R

ANSI C63.10:2013

ANSI C63.26:2015

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

FCC PART 15.209:

Frequencies (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
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8 (dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038B	MY60180018	Feb. 18, 2022	Feb. 17, 2023
Spectrum Analyzer KEYSIGHT	N9020B	MY60110513	Dec. 24, 2021	Dec. 23, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-1214	Oct. 27, 2021	Oct. 26, 2022
HORN Antenna RF SPIN	DRH18-E	210101A18E	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-1048	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 27, 2022	Jul. 26, 2023
Preamplifier EMCI	EMC330N	980798	Jan. 17, 2022	Jan. 16, 2023
Preamplifier EMCI	EMC118A45SE	980809	Dec. 30, 2021	Dec. 29, 2022
Preamplifier EMCI	EMC184045SE	980786	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC104-SM-SM-(9000+3000+1000)	201244+ 201232+ 210103	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMCCFD400-NM-NM-(9000+300+500)	201251+ 201249+ 201248	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC101G-KM-KM-(5000+3000+2000)	201261+201258+ 201255	Jan. 17, 2022	Jan. 16, 2023
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-515BSN	NA	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208676	NA	NA
Radio Communication Analyzer Anritsu	MT8821C	6201462755	Mar. 03, 2022	Mar. 02, 2023
DC power supply Keysight	U8002A	MY56330015	NA	NA
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2022	Jun. 22, 2023
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jul. 01, 2022	Jun. 30, 2023
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Jan. 03, 2022	Jan. 02, 2023

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in WM Chamber 9.

4.1.3 Test Procedures

WLAN / BT

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
3. For WLAN: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. For BT: Fundamental frequency and band edge & harmonic:
The average value of fundamental frequency is :average value = peak value + $20 \cdot \log(\text{Duty cycle})$ where the duty cycle correction factor is calculated from following formula:
 $20 \cdot \log(\text{Duty cycle}) = 20 \cdot \log(0.030) = -30.5 \text{ dB}$, please refer to the plotted duty (see section 3.3)
5. All modes of operation were investigated and the worst-case emissions are reported.

WWAN

- a. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
EIRP (dBm) = E (dB μ V/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
ERP (dBm) = E (dB μ V/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

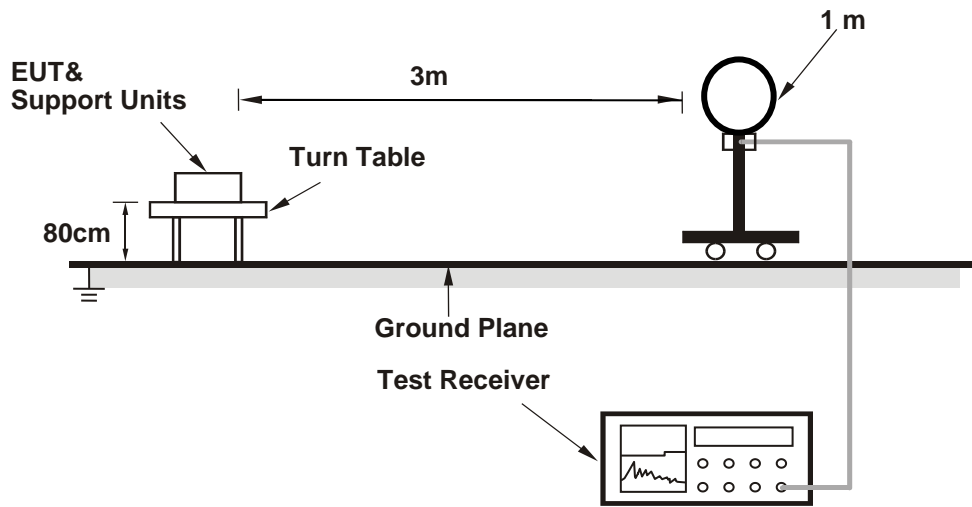
4.1.4 Deviation from Test Standard

No deviation.

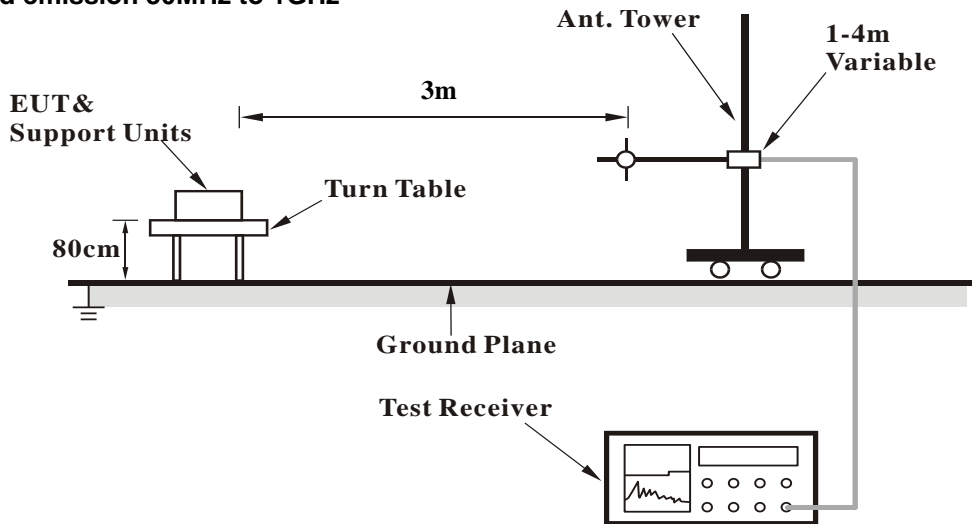
4.1.5 Test Setup

WLAN / BT

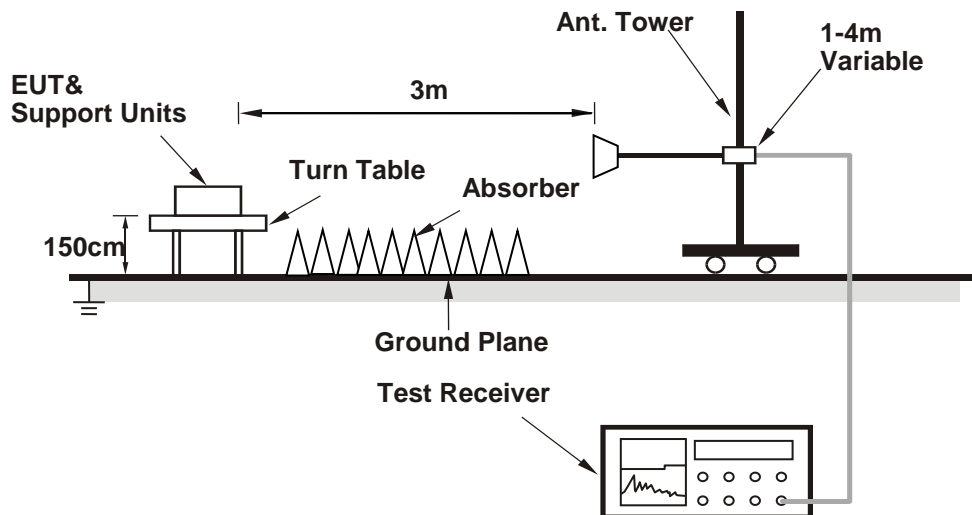
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



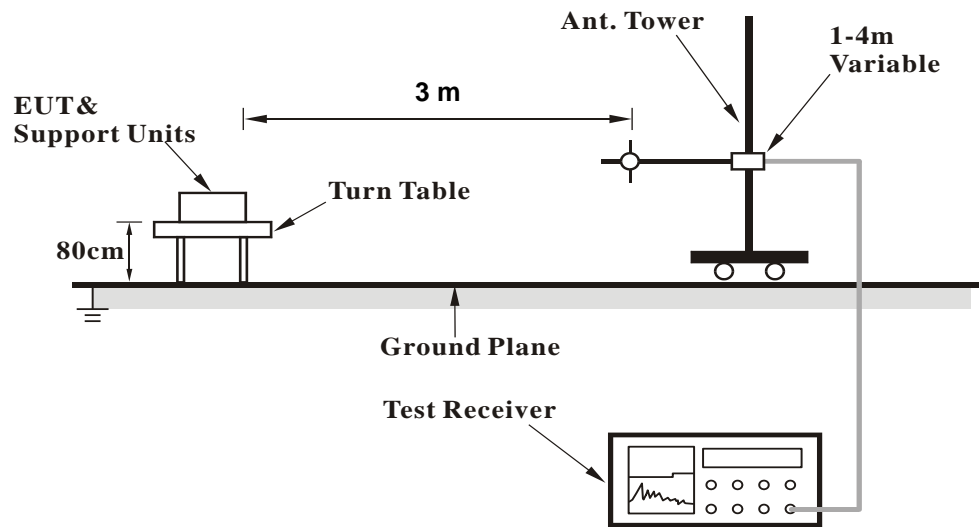
For Radiated emission above 1GHz



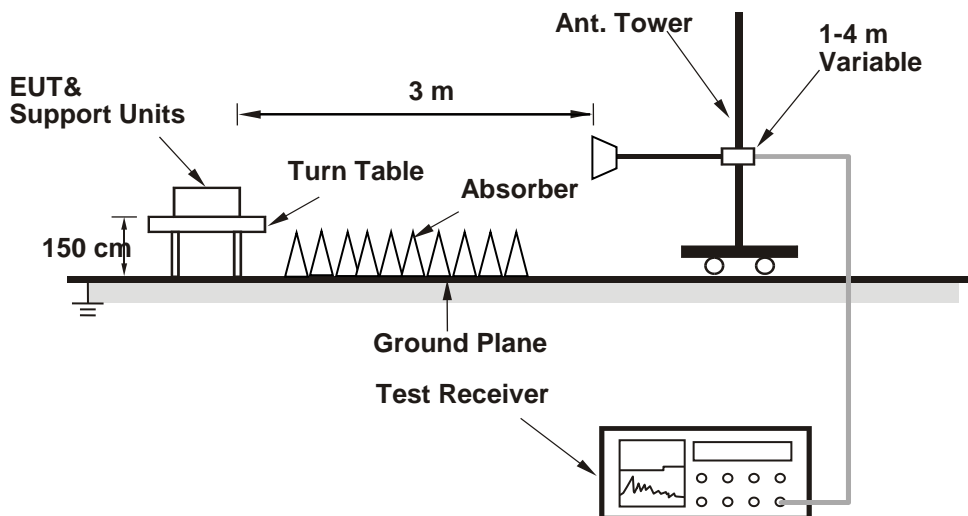
For the actual test configuration, please refer to the attached file (Test Setup Photo).

WWAN

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

Mode 1

802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 2, CH 9400

Frequency Range	1 GHz ~ 25 GHz	Detector Function	Peak (PK) Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.8 PK			1.51 H	138	59.8	32.0
2	*2437.00	86.2 AV			1.51 H	138	54.2	32.0
3	4874.00	50.7 PK	74.0	-23.3	1.72 H	138	47.5	3.2
4	4874.00	43.7 AV	54.0	-10.3	1.72 H	138	40.5	3.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	111.2 PK			2.80 V	186	79.2	32.0
2	*2437.00	104.8 AV			2.80 V	186	72.8	32.0
3	4874.00	57.6 PK	74.0	-16.4	2.06 V	129	54.4	3.2
4	4874.00	53.1 AV	54.0	-0.9	2.06 V	129	49.9	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.49 H	316	25.3	32.0
2	2390.00	45.5 AV	54.0	-8.5	1.49 H	316	13.5	32.0
3	*2402.00	97.5 PK			1.49 H	316	65.5	32.0
4	*2402.00	67.0 AV			1.49 H	316	35.0	32.0
5	4804.00	56.4 PK	74.0	-17.6	1.52 H	277	53.3	3.1
6	4804.00	25.9 AV	54.0	-28.1	1.52 H	277	22.8	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.55 V	327	25.3	32.0
2	2390.00	45.1 AV	54.0	-8.9	1.55 V	327	13.1	32.0
3	*2402.00	108.5 PK			1.55 V	327	76.5	32.0
4	*2402.00	78.0 AV			1.55 V	327	46.0	32.0
5	4804.00	68.6 PK	74.0	-5.4	2.17 V	34	65.5	3.1
6	4804.00	38.1 AV	54.0	-15.9	2.17 V	34	35.0	3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.4	-13.0	-37.4	1.80 H	122	45.0	-95.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-46.7	-13.0	-33.7	2.31 V	160	48.7	-95.4

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 2

802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 4, CH 1312

Frequency Range	1 GHz ~ 25 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.9 PK			1.55 H	141	59.9	32.0
2	*2437.00	87.4 AV			1.55 H	141	55.4	32.0
3	4874.00	50.7 PK	74.0	-23.3	1.82 H	145	47.5	3.2
4	4874.00	43.5 AV	54.0	-10.5	1.82 H	145	40.3	3.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.4 PK			2.91 V	184	78.4	32.0
2	*2437.00	104.4 AV			2.91 V	184	72.4	32.0
3	4874.00	57.7 PK	74.0	-16.3	1.95 V	133	54.5	3.2
4	4874.00	53.6 AV	54.0	-0.4	1.95 V	133	50.4	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.49 H	320	25.6	32.0
2	2390.00	45.6 AV	54.0	-8.4	1.49 H	320	13.6	32.0
3	*2402.00	97.4 PK			1.49 H	320	65.4	32.0
4	*2402.00	66.9 AV			1.49 H	320	34.9	32.0
5	4804.00	56.5 PK	74.0	-17.5	1.51 H	211	53.4	3.1
6	4804.00	26.0 AV	54.0	-28.0	1.51 H	211	22.9	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.55 V	333	25.3	32.0
2	2390.00	45.5 AV	54.0	-8.5	1.55 V	333	13.5	32.0
3	*2402.00	108.2 PK			1.55 V	333	76.2	32.0
4	*2402.00	77.7 AV			1.55 V	333	45.7	32.0
5	4804.00	68.5 PK	74.0	-5.5	2.14 V	25	65.4	3.1
6	4804.00	38.0 AV	54.0	-16.0	2.14 V	25	34.9	3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-50.9	-13.0	-37.9	2.13 H	180	45.9	-96.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-45.7	-13.0	-32.7	2.75 V	171	51.1	-96.8

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 3

802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 5, CH 4233

Frequency Range	1 GHz ~ 25 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.7 PK			1.82 H	144	59.7	32.0
2	*2437.00	86.1 AV			1.82 H	144	54.1	32.0
3	4874.00	50.6 PK	74.0	-23.4	1.67 H	141	47.4	3.2
4	4874.00	43.6 AV	54.0	-10.4	1.67 H	141	40.4	3.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.4 PK			2.50 V	166	78.4	32.0
2	*2437.00	104.6 AV			2.50 V	166	72.6	32.0
3	4874.00	57.8 PK	74.0	-16.2	1.78 V	133	54.6	3.2
4	4874.00	53.7 AV	54.0	-0.3	1.78 V	133	50.5	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.52 H	325	25.1	32.0
2	2390.00	45.1 AV	54.0	-8.9	1.52 H	325	13.1	32.0
3	*2402.00	97.4 PK			1.52 H	325	65.4	32.0
4	*2402.00	66.9 AV			1.52 H	325	34.9	32.0
5	4804.00	56.6 PK	74.0	-17.4	1.55 H	264	53.5	3.1
6	4804.00	26.1 AV	54.0	-27.9	1.55 H	264	23.0	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.7 PK	74.0	-16.3	1.64 V	328	25.7	32.0
2	2390.00	45.6 AV	54.0	-8.4	1.64 V	328	13.6	32.0
3	*2402.00	108.1 PK			1.64 V	328	76.1	32.0
4	*2402.00	77.6 AV			1.64 V	328	45.6	32.0
5	4804.00	68.5 PK	74.0	-5.5	2.11 V	25	65.4	3.1
6	4804.00	38.0 AV	54.0	-16.0	2.11 V	25	34.9	3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.20	-52.4	-13.0	-39.4	1.87 H	20	51.6	-104.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.20	-43.3	-13.0	-30.3	2.28 V	27	60.7	-104.0

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

Mode 4

802.11n (HT20), CH 6 + BT EDR, CH0 + LTE Band 13, CH 23230

Frequency Range	1 GHz ~ 25 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.8 PK			1.82 H	144	59.8	32.0
2	*2437.00	88.5 AV			1.82 H	144	56.5	32.0
3	4874.00	50.5 PK	74.0	-23.5	1.82 H	144	47.3	3.2
4	4874.00	43.5 AV	54.0	-10.5	1.82 H	144	40.3	3.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.8 PK			1.74 V	141	78.8	32.0
2	*2437.00	100.4 AV			1.74 V	141	68.4	32.0
3	4874.00	57.8 PK	74.0	-16.2	1.82 V	24	54.6	3.2
4	4874.00	53.6 AV	54.0	-0.4	1.82 V	24	50.4	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.55 H	333	25.1	32.0
2	2390.00	45.0 AV	54.0	-9.0	1.55 H	333	13.0	32.0
3	*2402.00	97.7 PK			1.55 H	333	65.7	32.0
4	*2402.00	67.2 AV			1.55 H	333	35.2	32.0
5	4804.00	56.6 PK	74.0	-17.4	1.64 H	252	53.5	3.1
6	4804.00	26.1 AV	54.0	-27.9	1.64 H	252	23.0	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	1.54 V	311	25.6	32.9
2	2390.00	46.3 AV	54.0	-7.7	1.54 V	311	13.4	32.9
3	*2402.00	97.9 PK			1.54 V	311	65.0	32.9
4	*2402.00	67.4 AV			1.54 V	311	34.5	32.9
5	4804.00	55.6 PK	74.0	-18.4	2.22 V	36	53.3	2.3
6	4804.00	25.1 AV	54.0	-28.9	2.22 V	36	22.8	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-48.3	-40.0	-8.3	1.99 H	34	53.7	-102.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-43.7	-40.0	-3.7	2.23 V	18	58.3	-102.0

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 5

802.11n (HT20), CH 6 + BT EDR, CH0 + LTE Band 14, CH 23355

Frequency Range	1 GHz ~ 25 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.4 PK			1.82 H	144	59.4	32.0
2	*2437.00	89.0 AV			1.82 H	144	57.0	32.0
3	4874.00	50.3 PK	74.0	-23.7	1.71 H	164	47.1	3.2
4	4874.00	43.5 AV	54.0	-10.5	1.71 H	164	40.3	3.2

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.2 PK			1.72 V	141	78.2	32.0
2	*2437.00	99.8 AV			1.72 V	141	67.8	32.0
3	4874.00	57.8 PK	74.0	-16.2	1.72 V	166	54.6	3.2
4	4874.00	53.5 AV	54.0	-0.5	1.72 V	166	50.3	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.52 H	320	25.1	32.0
2	2390.00	45.2 AV	54.0	-8.8	1.52 H	320	13.2	32.0
3	*2402.00	97.4 PK			1.52 H	320	65.4	32.0
4	*2402.00	66.9 AV			1.52 H	320	34.9	32.0
5	4804.00	58.6 PK	74.0	-15.4	1.55 H	271	55.5	3.1
6	4804.00	28.1 AV	54.0	-25.9	1.55 H	271	25.0	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.5 PK	74.0	-16.5	1.56 V	322	25.5	32.0
2	2390.00	45.6 AV	54.0	-8.4	1.56 V	322	13.6	32.0
3	*2402.00	108.4 PK			1.56 V	322	76.4	32.0
4	*2402.00	77.9 AV			1.56 V	322	45.9	32.0
5	4804.00	68.4 PK	74.0	-5.6	2.21 V	33	65.3	3.1
6	4804.00	37.9 AV	54.0	-16.1	2.21 V	33	34.8	3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1591.00	-49.6	-40.0	-9.6	1.93 H	31	52.3	-101.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1591.00	-42.6	-40.0	-2.6	2.15 V	29	59.3	-101.9

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 6

802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 2, CH 9400

Frequency Range	1 GHz ~ 40 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	97.8 PK			1.82 H	141	57.2	40.6
2	*5580.00	86.1 AV			1.82 H	141	45.5	40.6
3	11160.00	56.1 PK	74.0	-17.9	1.68 H	144	47.5	8.6
4	11160.00	43.2 AV	54.0	-10.8	1.68 H	144	34.6	8.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	102.1 PK			1.99 V	36	61.5	40.6
2	*5580.00	91.0 AV			1.99 V	36	50.4	40.6
3	11160.00	56.3 PK	74.0	-17.7	1.93 V	66	47.7	8.6
4	11160.00	43.3 AV	54.0	-10.7	1.93 V	66	34.7	8.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	1.44 H	333	25.1	32.9
2	2390.00	46.1 AV	54.0	-7.9	1.44 H	333	13.2	32.9
3	*2402.00	98.3 PK			1.44 H	333	65.4	32.9
4	*2402.00	67.8 AV			1.44 H	333	34.9	32.9
5	4804.00	55.5 PK	74.0	-18.5	1.45 H	221	53.2	2.3
6	4804.00	25.0 AV	54.0	-29.0	1.45 H	221	22.7	2.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.54 V	333	25.4	32.9
2	2390.00	46.5 AV	54.0	-7.5	1.54 V	333	13.6	32.9
3	*2402.00	109.4 PK			1.54 V	333	76.5	32.9
4	*2402.00	78.9 AV			1.54 V	333	46.0	32.9
5	4804.00	67.7 PK	74.0	-6.3	2.22 V	22	65.4	2.3
6	4804.00	37.2 AV	54.0	-16.8	2.22 V	22	34.9	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.3	-13.0	-37.3	1.64 H	255	45.1	-95.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-47.0	-13.0	-34.0	1.89 V	214	48.4	-95.4

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 7

802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 4, CH 1312

Frequency Range	1GHz ~ 40GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	97.5 PK			1.82 H	163	56.9	40.6
2	*5580.00	86.0 AV			1.82 H	163	45.4	40.6
3	11160.00	55.1 PK	74.0	-18.9	1.82 H	136	46.5	8.6
4	11160.00	44.1 AV	54.0	-9.9	1.82 H	136	35.5	8.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	102.0 PK			1.82 V	37	61.4	40.6
2	*5580.00	90.7 AV			1.82 V	37	50.1	40.6
3	11160.00	55.3 PK	74.0	-18.7	1.82 V	100	46.7	8.6
4	11160.00	43.6 AV	54.0	-10.4	1.82 V	100	35.0	8.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	1.58 H	333	23.4	32.9
2	2390.00	46.0 AV	54.0	-8.0	1.58 H	333	13.1	32.9
3	*2402.00	98.3 PK			1.58 H	333	65.4	32.9
4	*2402.00	67.8 AV			1.58 H	333	34.9	32.9
5	4804.00	55.5 PK	74.0	-18.5	1.54 H	211	53.2	2.3
6	4804.00	25.0 AV	54.0	-29.0	1.54 H	211	22.7	2.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.54 V	331	25.7	32.9
2	2390.00	46.3 AV	54.0	-7.7	1.54 V	331	13.4	32.9
3	*2402.00	109.4 PK			1.54 V	331	76.5	32.9
4	*2402.00	78.9 AV			1.54 V	331	46.0	32.9
5	4804.00	67.6 PK	74.0	-6.4	2.21 V	28	65.3	2.3
6	4804.00	37.1 AV	54.0	-16.9	2.21 V	28	34.8	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-51.4	-13.0	-38.4	2.22 H	136	45.4	-96.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3424.80	-45.7	-13.0	-32.7	2.55 V	181	51.1	-96.8

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 8

802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 5, CH 4233

Frequency Range	1 GHz ~ 40 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	97.2 PK			1.66 H	141	56.6	40.6
2	*5580.00	85.8 AV			1.66 H	141	45.2	40.6
3	11160.00	56.1 PK	74.0	-17.9	1.71 H	36	47.5	8.6
4	11160.00	44.0 AV	54.0	-10.0	1.71 H	36	35.4	8.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	102.1 PK			1.82 V	100	61.5	40.6
2	*5580.00	90.4 AV			1.82 V	100	49.8	40.6
3	11160.00	56.0 PK	74.0	-18.0	1.71 V	36	47.4	8.6
4	11160.00	43.5 AV	54.0	-10.5	1.71 V	36	34.9	8.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	1.52 H	322	25.1	32.9
2	2390.00	46.2 AV	54.0	-7.8	1.52 H	322	13.3	32.9
3	*2402.00	98.3 PK			1.52 H	322	65.4	32.9
4	*2402.00	67.8 AV			1.52 H	322	34.9	32.9
5	4804.00	55.5 PK	74.0	-18.5	1.55 H	271	53.2	2.3
6	4804.00	25.0 AV	54.0	-29.0	1.55 H	271	22.7	2.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	1.54 V	322	25.6	32.9
2	2390.00	46.1 AV	54.0	-7.9	1.54 V	322	13.2	32.9
3	*2402.00	109.4 PK			1.54 V	322	76.5	32.9
4	*2402.00	78.9 AV			1.54 V	322	46.0	32.9
5	4804.00	67.7 PK	74.0	-6.3	2.21 V	22	65.4	2.3
6	4804.00	37.2 AV	54.0	-16.8	2.21 V	22	34.9	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.20	-52.5	-13.0	-39.5	1.81 H	22	51.5	-104.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1693.20	-43.6	-13.0	-30.6	2.26 V	28	60.4	-104.0

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

Mode 9

802.11a, CH 116 + BT EDR, CH0 + LTE Band 13, CH 23230

Frequency Range	1 GHz ~ 40 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	97.4 PK			1.82 H	155	56.8	40.6
2	*5580.00	85.4 AV			1.82 H	155	44.8	40.6
3	11160.00	55.4 PK	74.0	-18.6	1.71 H	145	46.8	8.6
4	11160.00	43.5 AV	54.0	-10.5	1.71 H	145	34.9	8.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	101.8 PK			1.84 V	41	61.2	40.6
2	*5580.00	91.0 AV			1.84 V	41	50.4	40.6
3	11160.00	56.1 PK	74.0	-17.9	1.71 V	23	47.5	8.6
4	11160.00	43.2 AV	54.0	-10.8	1.71 V	23	34.6	8.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.55 H	333	25.3	32.9
2	2390.00	46.4 AV	54.0	-7.6	1.55 H	333	13.5	32.9
3	*2402.00	98.2 PK			1.55 H	333	65.3	32.9
4	*2402.00	67.7 AV			1.55 H	333	34.8	32.9
5	4804.00	55.7 PK	74.0	-18.3	1.63 H	214	53.4	2.3
6	4804.00	25.2 AV	54.0	-28.8	1.63 H	214	22.9	2.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.3 PK	74.0	-15.7	1.54 V	311	25.4	32.9
2	2390.00	46.6 AV	54.0	-7.4	1.54 V	311	13.7	32.9
3	*2402.00	97.9 PK			1.54 V	311	65.0	32.9
4	*2402.00	67.4 AV			1.54 V	311	34.5	32.9
5	4804.00	55.6 PK	74.0	-18.4	2.22 V	36	53.3	2.3
6	4804.00	25.1 AV	54.0	-28.9	2.22 V	36	22.8	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-49.8	-40.0	-9.8	1.96 H	31	52.2	-102.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1564.00	-41.9	-40.0	-1.9	2.13 V	25	60.1	-102.0

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode 10

802.11a, CH 116 + BT EDR, CH0 + LTE Band 14, CH 23355

Frequency Range	1 GHz ~ 40 GHz	Detector Function	Peak Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	97.8 PK			1.88 H	141	57.2	40.6
2	*5580.00	85.8 AV			1.88 H	141	45.2	40.6
3	11160.00	55.4 PK	74.0	-18.6	1.84 H	146	46.8	8.6
4	11160.00	43.2 AV	54.0	-10.8	1.84 H	146	34.6	8.6

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	101.5 PK			1.84 V	122	60.9	40.6
2	*5580.00	90.5 AV			1.84 V	122	49.9	40.6
3	11160.00	58.3 PK	74.0	-15.7	1.63 V	141	49.7	8.6
4	11160.00	43.2 AV	54.0	-10.8	1.63 V	141	34.6	8.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	1.52 H	311	25.2	32.0
2	2390.00	45.4 AV	54.0	-8.6	1.52 H	311	13.4	32.0
3	*2402.00	97.5 PK			1.52 H	311	65.5	32.0
4	*2402.00	67.0 AV			1.52 H	311	35.0	32.0
5	4804.00	56.4 PK	74.0	-17.6	1.66 H	252	53.3	3.1
6	4804.00	25.9 AV	54.0	-28.1	1.66 H	252	22.8	3.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.4 PK	74.0	-18.6	1.55 V	331	23.4	32.0
2	2390.00	45.5 AV	54.0	-8.5	1.55 V	331	13.5	32.0
3	*2402.00	108.5 PK			1.55 V	331	76.5	32.0
4	*2402.00	78.0 AV			1.55 V	331	46.0	32.0
5	4804.00	68.5 PK	74.0	-5.5	2.21 V	28	65.4	3.1
6	4804.00	38.0 AV	54.0	-16.0	2.21 V	28	34.9	3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula:
 $20 \log(\text{Duty cycle}) = 20 \log(3 \text{ ms} / 100 \text{ ms}) = -30.5 \text{ dB}$

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1591.00	-49.6	-40.0	-9.6	1.93 H	31	52.3	-101.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1591.00	-42.2	-40.0	-2.2	2.21 V	36	59.7	-101.9

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

Mode 1

802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 2, CH 9400

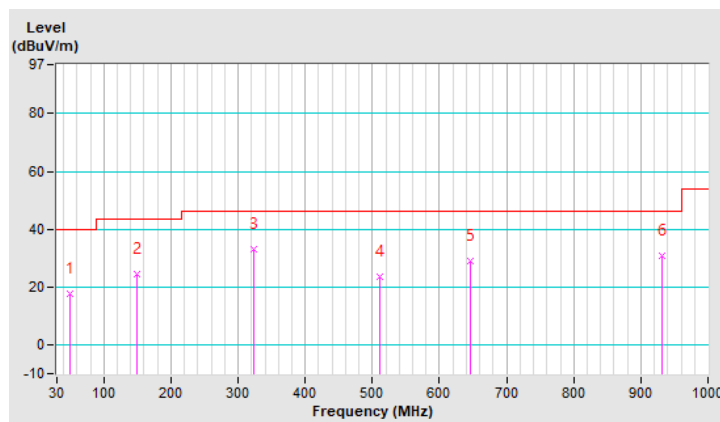
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.37	17.7 QP	40.0	-22.3	1.99 H	94	30.9	-13.2
2	148.34	24.5 QP	43.5	-19.0	1.99 H	29	37.7	-13.2
3	322.94	33.0 QP	46.0	-13.0	1.00 H	188	44.8	-11.8
4	511.12	23.6 QP	46.0	-22.4	1.49 H	18	31.2	-7.6
5	646.92	28.8 QP	46.0	-17.2	1.49 H	9	33.4	-4.6
6	932.10	30.8 QP	46.0	-15.2	1.49 H	18	31.5	-0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

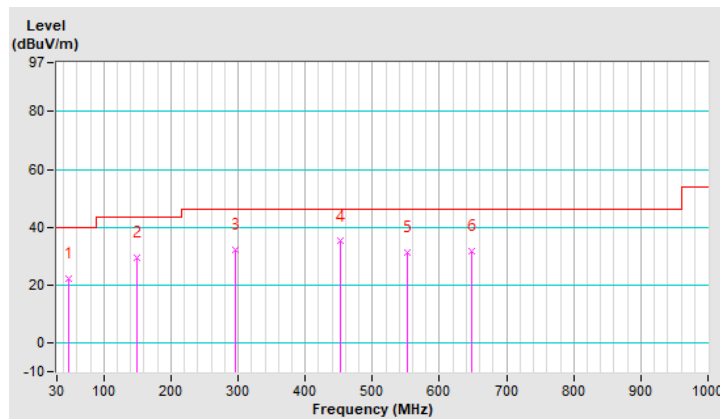


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	22.4 QP	40.0	-17.6	1.01 V	25	35.4	-13.0
2	148.34	29.3 QP	43.5	-14.2	1.51 V	86	42.5	-13.2
3	296.75	32.3 QP	46.0	-13.7	1.51 V	177	44.8	-12.5
4	451.95	35.1 QP	46.0	-10.9	1.01 V	243	43.7	-8.6
5	551.86	31.3 QP	46.0	-14.7	1.01 V	50	38.3	-7.0
6	647.89	31.8 QP	46.0	-14.2	1.51 V	134	36.4	-4.6

Remarks:

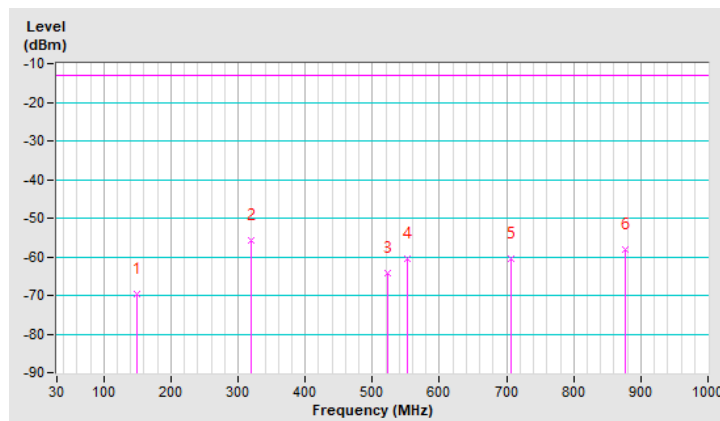
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	-69.5	-13.0	-56.5	1.99 H	5	39.0	-108.5
2	319.06	-55.6	-13.0	-42.6	1.49 H	18	51.7	-107.3
3	522.76	-64.1	-13.0	-51.1	1.99 H	346	38.6	-102.7
4	551.86	-60.6	-13.0	-47.6	1.49 H	60	41.7	-102.3
5	707.06	-60.5	-13.0	-47.5	1.49 H	282	38.7	-99.2
6	876.81	-58.1	-13.0	-45.1	1.49 H	18	39.1	-97.2

Remarks:

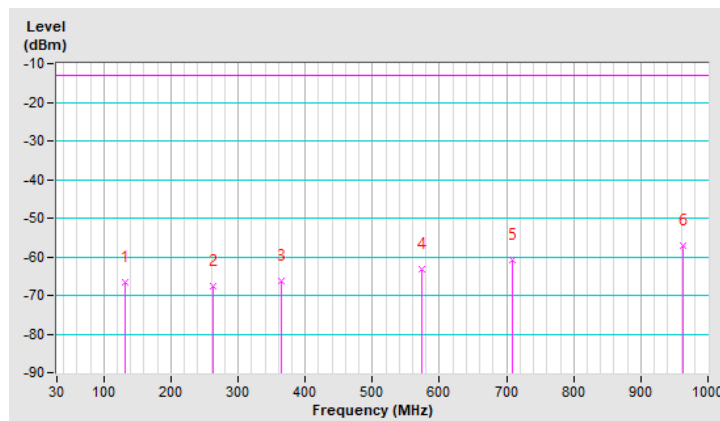
1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	131.85	-66.7	-13.0	-53.7	1.01 V	161	42.8	-109.5
2	262.80	-67.5	-13.0	-54.5	1.01 V	56	41.6	-109.1
3	364.65	-66.3	-13.0	-53.3	1.01 V	3	40.0	-106.3
4	573.20	-63.1	-13.0	-50.1	1.51 V	130	38.6	-101.7
5	709.00	-60.9	-13.0	-47.9	1.01 V	44	38.3	-99.2
6	963.14	-57.1	-13.0	-44.1	2.00 V	11	38.4	-95.5

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 2

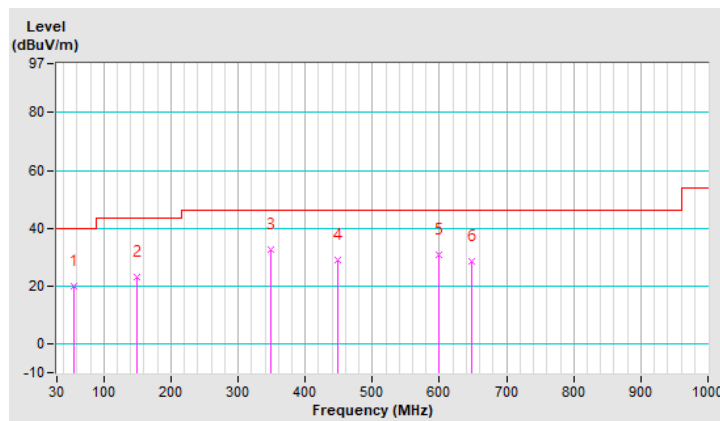
802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 4, CH 1312

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.19	19.9 QP	40.0	-20.1	1.01 H	337	33.3	-13.4
2	148.34	23.2 QP	43.5	-20.3	2.00 H	42	36.4	-13.2
3	349.13	32.5 QP	46.0	-13.5	1.01 H	159	43.9	-11.4
4	448.07	28.8 QP	46.0	-17.2	1.01 H	100	37.5	-8.7
5	599.39	30.9 QP	46.0	-15.1	1.51 H	4	36.2	-5.3
6	647.89	28.7 QP	46.0	-17.3	1.01 H	18	33.3	-4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

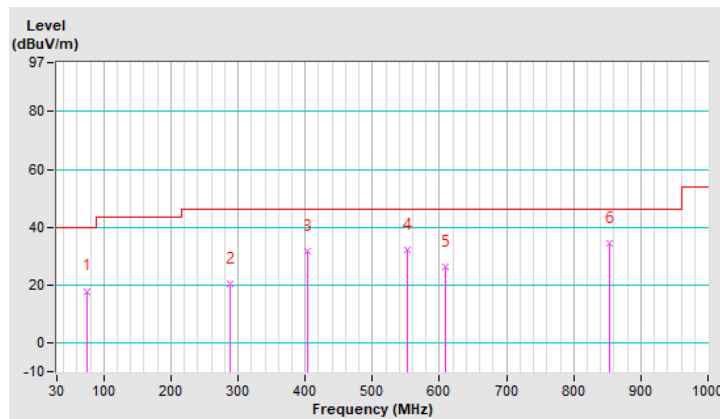


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.62	17.9 QP	40.0	-22.1	1.00 V	135	34.4	-16.5
2	288.02	20.5 QP	46.0	-25.5	1.00 V	110	33.2	-12.7
3	403.45	31.5 QP	46.0	-14.5	1.00 V	329	41.5	-10.0
4	552.83	32.3 QP	46.0	-13.7	1.00 V	112	39.2	-6.9
5	609.09	26.4 QP	46.0	-19.6	1.00 V	215	31.6	-5.2
6	853.53	34.5 QP	46.0	-11.5	1.99 V	30	36.5	-2.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

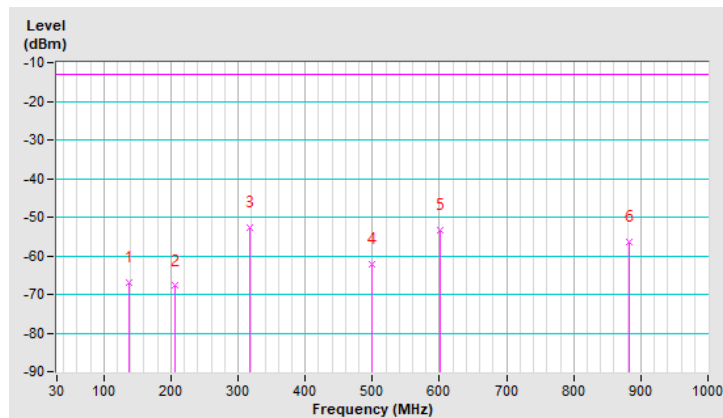


Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	136.70	-67.0	-13.0	-54.0	1.49 H	194	42.0	-109.0
2	205.57	-67.8	-13.0	-54.8	1.49 H	252	43.9	-111.7
3	318.09	-52.8	-13.0	-39.8	1.00 H	231	54.5	-107.3
4	499.48	-62.3	-13.0	-49.3	1.49 H	253	40.9	-103.2
5	600.36	-53.5	-13.0	-40.5	1.49 H	87	47.2	-100.7
6	882.63	-56.4	-13.0	-43.4	1.49 H	43	40.7	-97.1

Remarks:

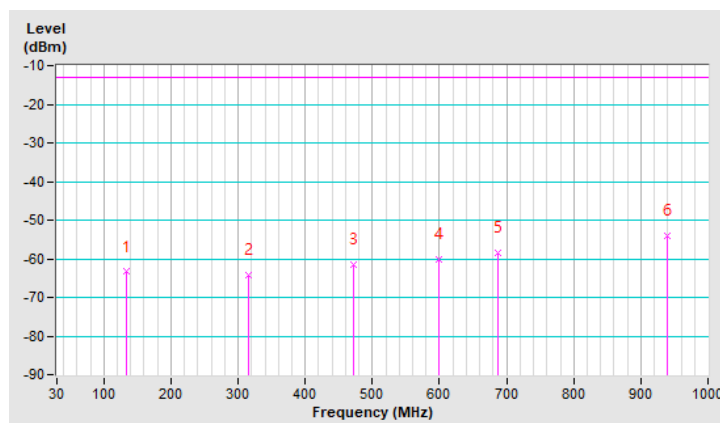
1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-63.4	-13.0	-50.4	1.01 V	143	46.0	-109.4
2	316.15	-64.1	-13.0	-51.1	1.01 V	298	43.2	-107.3
3	472.32	-61.6	-13.0	-48.6	2.00 V	315	41.8	-103.4
4	598.42	-60.1	-13.0	-47.1	2.00 V	176	40.5	-100.6
5	686.69	-58.6	-13.0	-45.6	1.01 V	205	40.9	-99.5
6	938.89	-54.0	-13.0	-41.0	1.01 V	18	41.9	-95.9

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 3

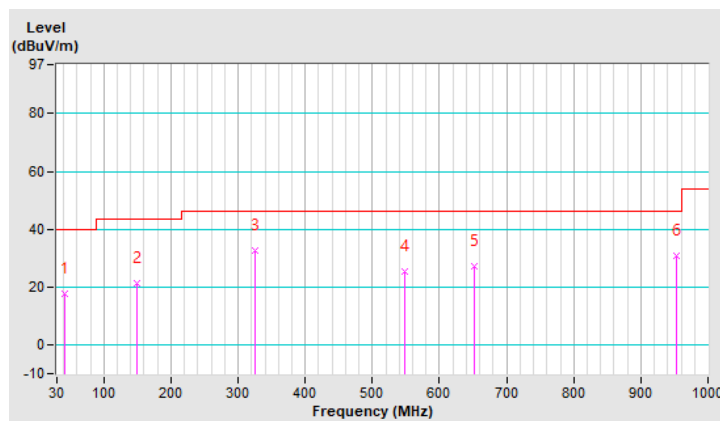
802.11n (HT20), CH 6 + BT EDR, CH0 + WCDMA Band 5, CH 4233

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	17.8 QP	40.0	-22.2	1.51 H	129	31.1	-13.3
2	148.34	21.1 QP	43.5	-22.4	1.01 H	48	34.3	-13.2
3	324.88	32.6 QP	46.0	-13.4	1.01 H	191	44.3	-11.7
4	547.98	25.4 QP	46.0	-20.6	1.51 H	195	32.5	-7.1
5	652.74	27.1 QP	46.0	-18.9	1.01 H	18	31.8	-4.7
6	953.44	30.8 QP	46.0	-15.2	1.51 H	341	31.3	-0.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

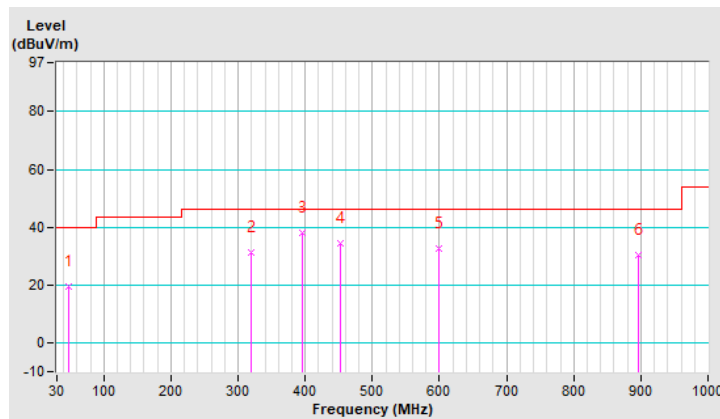


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	19.6 QP	40.0	-20.4	1.01 V	175	32.6	-13.0
2	320.03	31.4 QP	46.0	-14.6	1.51 V	313	43.3	-11.9
3	395.69	38.0 QP	46.0	-8.0	1.51 V	104	48.1	-10.1
4	451.95	34.6 QP	46.0	-11.4	1.01 V	241	43.2	-8.6
5	599.39	32.8 QP	46.0	-13.2	1.01 V	218	38.1	-5.3
6	896.21	30.5 QP	46.0	-15.5	2.00 V	251	32.2	-1.7

Remarks:

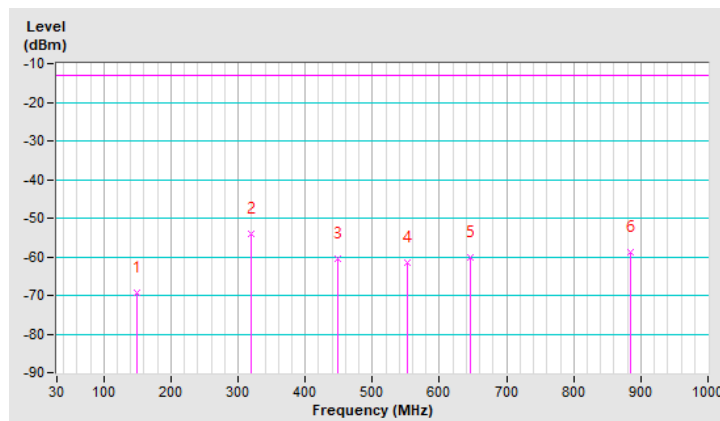
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	-69.3	-13.0	-56.3	1.99 H	200	41.4	-110.7
2	319.06	-54.1	-13.0	-41.1	1.00 H	206	55.3	-109.4
3	448.07	-60.5	-13.0	-47.5	1.99 H	54	45.7	-106.2
4	551.86	-61.4	-13.0	-48.4	1.50 H	73	43.1	-104.5
5	646.92	-60.0	-13.0	-47.0	1.50 H	18	42.0	-102.0
6	884.57	-58.9	-13.0	-45.9	1.99 H	122	40.4	-99.3

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

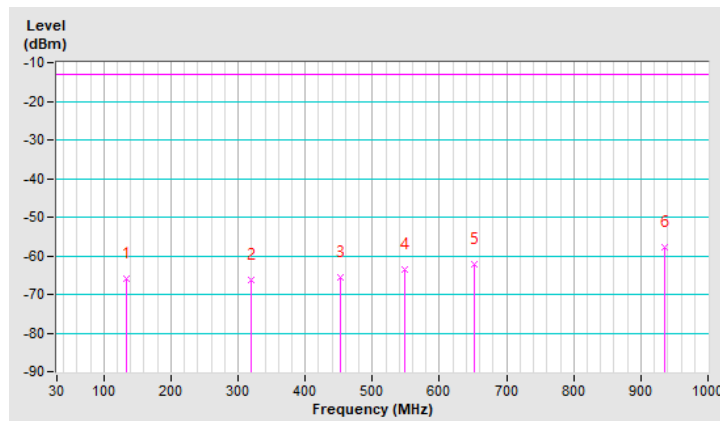


RF Mode	TX WCDMA Band II Channel Bandwidth: 20MHz	Channel	CH 9400 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 65% RH
Tested By	Randy		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-65.9	-13.0	-52.9	1.01 V	121	45.7	-111.6
2	319.06	-66.2	-13.0	-53.2	2.00 V	39	43.2	-109.4
3	451.95	-65.6	-13.0	-52.6	2.00 V	348	40.4	-106.0
4	547.98	-63.5	-13.0	-50.5	2.00 V	18	41.1	-104.6
5	652.74	-62.3	-13.0	-49.3	1.01 V	151	39.8	-102.1
6	935.01	-57.7	-13.0	-44.7	1.01 V	41	40.4	-98.1

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 4

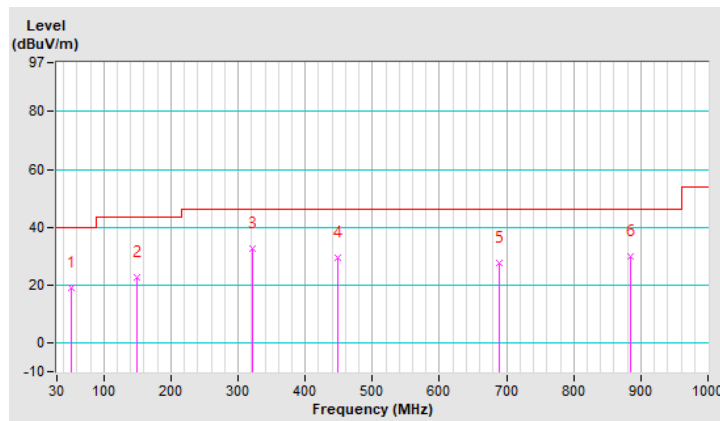
802.11n (HT20), CH 6 + BT EDR, CH0 + LTE Band 13, CH 23230

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.34	18.8 QP	40.0	-21.2	2.00 H	109	32.0	-13.2
2	148.34	22.8 QP	43.5	-20.7	2.00 H	75	36.0	-13.2
3	321.97	32.6 QP	46.0	-13.4	1.00 H	2	44.5	-11.9
4	448.07	29.4 QP	46.0	-16.6	1.00 H	260	38.1	-8.7
5	689.60	27.5 QP	46.0	-18.5	2.00 H	162	31.6	-4.1
6	885.54	29.7 QP	46.0	-16.3	2.00 H	2	31.4	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

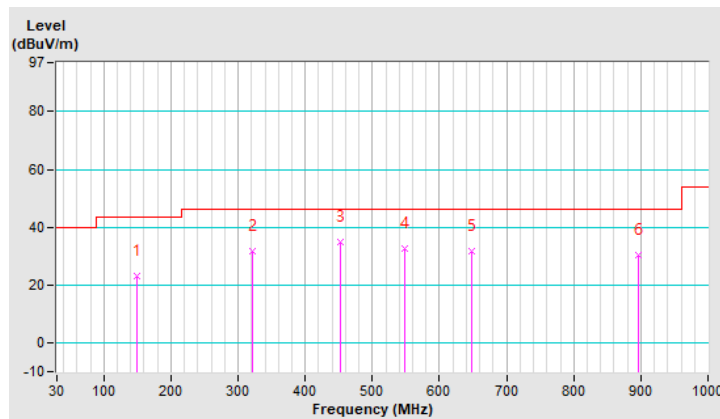


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.9 QP	43.5	-20.6	1.01 V	209	36.1	-13.2
2	321.97	31.6 QP	46.0	-14.4	1.51 V	330	43.5	-11.9
3	451.95	34.9 QP	46.0	-11.1	1.01 V	250	43.5	-8.6
4	547.98	32.8 QP	46.0	-13.2	1.01 V	123	39.9	-7.1
5	647.89	31.8 QP	46.0	-14.2	1.51 V	87	36.4	-4.6
6	896.21	30.4 QP	46.0	-15.6	2.00 V	284	32.1	-1.7

Remarks:

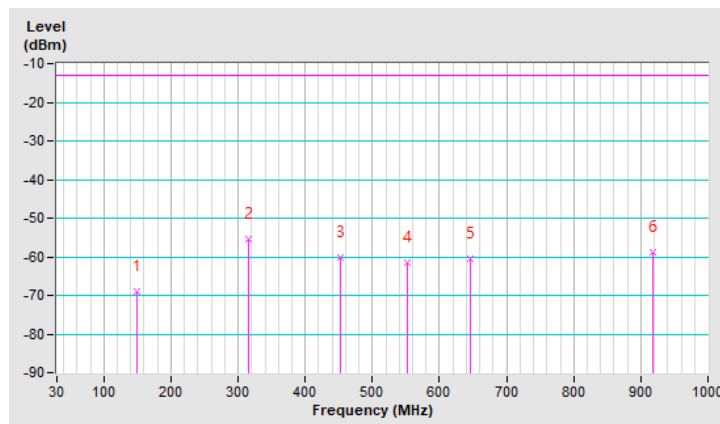
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	-68.9	-13.0	-55.9	2.00 H	259	41.8	-110.7
2	316.15	-55.4	-13.0	-42.4	1.01 H	242	54.0	-109.4
3	451.95	-60.0	-13.0	-47.0	1.01 H	72	46.0	-106.0
4	551.86	-61.4	-13.0	-48.4	1.51 H	61	43.1	-104.5
5	646.92	-60.4	-13.0	-47.4	1.51 H	36	41.6	-102.0
6	918.52	-58.8	-13.0	-45.8	1.01 H	18	39.7	-98.5

Remarks:

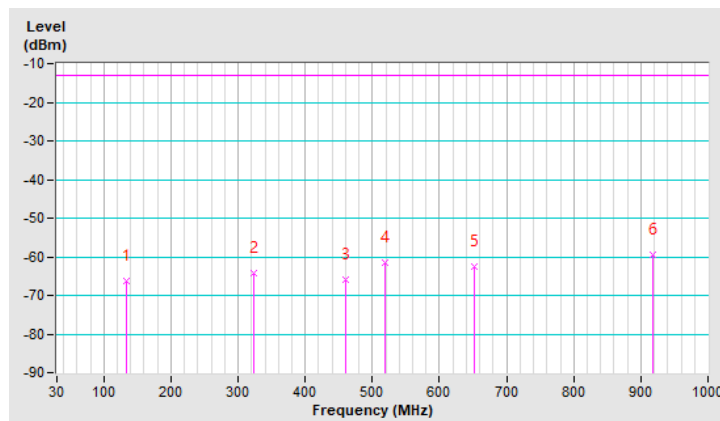
1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	133.79	-66.3	-13.0	-53.3	1.00 V	141	45.1	-111.4
2	322.94	-64.4	-13.0	-51.4	1.00 V	2	44.9	-109.3
3	460.68	-66.0	-13.0	-53.0	1.00 V	302	39.8	-105.8
4	519.85	-61.5	-13.0	-48.5	1.49 V	74	43.3	-104.8
5	652.74	-62.6	-13.0	-49.6	1.49 V	132	39.5	-102.1
6	918.52	-59.4	-13.0	-46.4	1.00 V	345	39.1	-98.5

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 5

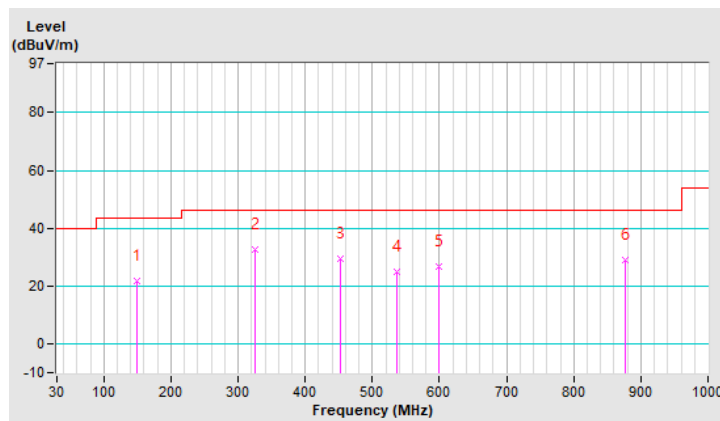
802.11n (HT20), CH 6 + BT EDR, CH0 + LTE Band 14, CH 23355

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	21.8 QP	43.5	-21.7	2.00 H	239	35.0	-13.2
2	324.88	32.7 QP	46.0	-13.3	1.01 H	186	44.4	-11.7
3	451.95	29.4 QP	46.0	-16.6	1.01 H	254	38.0	-8.6
4	537.31	24.9 QP	46.0	-21.1	1.01 H	353	32.1	-7.2
5	599.39	26.6 QP	46.0	-19.4	1.51 H	2	31.9	-5.3
6	876.81	29.2 QP	46.0	-16.8	1.51 H	175	31.1	-1.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

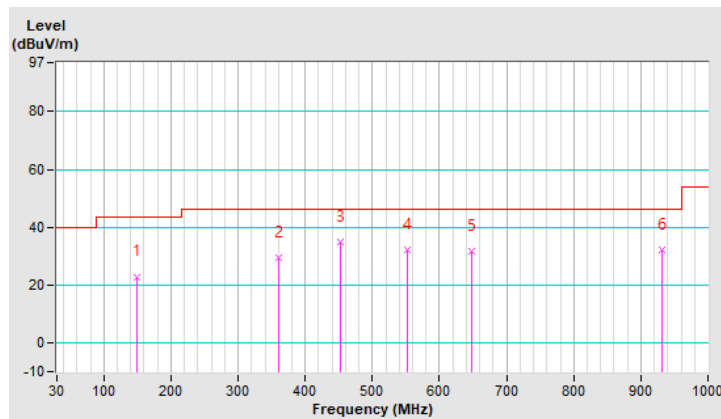


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.9 QP	43.5	-20.6	1.00 V	232	36.1	-13.2
2	359.80	29.5 QP	46.0	-16.5	1.49 V	83	40.7	-11.2
3	451.95	34.8 QP	46.0	-11.2	1.00 V	13	43.4	-8.6
4	551.86	32.2 QP	46.0	-13.8	1.00 V	101	39.2	-7.0
5	647.89	31.6 QP	46.0	-14.4	1.49 V	91	36.2	-4.6
6	932.10	32.1 QP	46.0	-13.9	1.49 V	39	32.8	-0.7

Remarks:

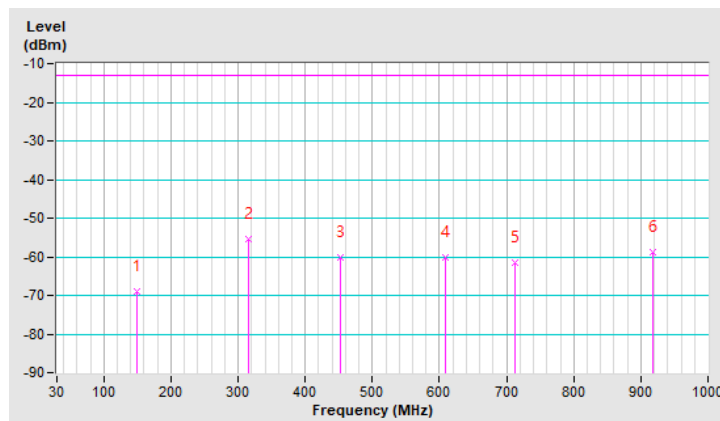
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	-68.9	-13.0	-55.9	2.00 H	259	41.8	-110.7
2	316.15	-55.4	-13.0	-42.4	1.01 H	242	54.0	-109.4
3	451.95	-60.0	-13.0	-47.0	1.01 H	72	46.0	-106.0
4	609.09	-60.3	-13.0	-47.3	1.51 H	254	42.4	-102.7
5	711.91	-61.5	-13.0	-48.5	2.00 H	203	39.8	-101.3
6	918.52	-58.8	-13.0	-45.8	1.01 H	18	39.7	-98.5

Remarks:

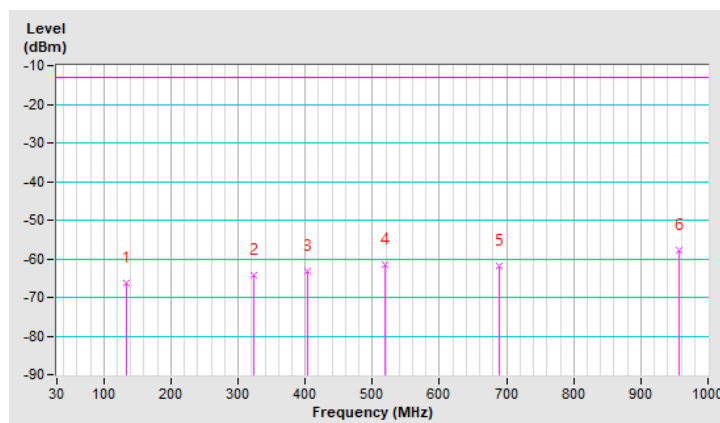
1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	133.79	-66.3	-13.0	-53.3	1.00 V	141	45.1	-111.4
2	322.94	-64.4	-13.0	-51.4	1.00 V	2	44.9	-109.3
3	404.42	-63.1	-13.0	-50.1	1.00 V	190	44.4	-107.5
4	519.85	-61.5	-13.0	-48.5	1.49 V	74	43.3	-104.8
5	688.63	-61.9	-13.0	-48.9	1.49 V	18	39.7	-101.6
6	957.32	-57.8	-13.0	-44.8	1.00 V	266	40.0	-97.8

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 6

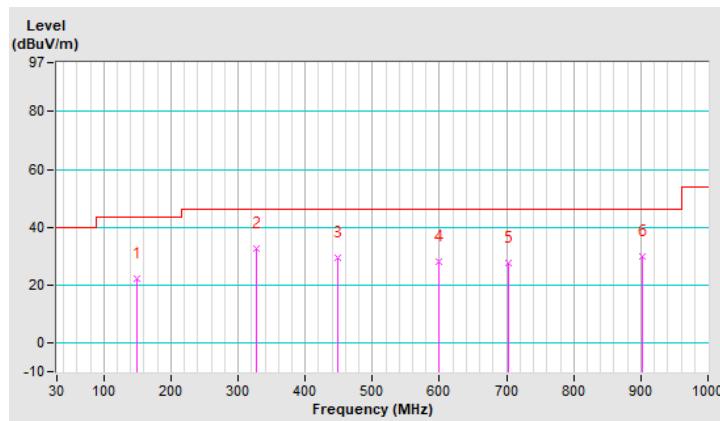
802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 2, CH 9400

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.1 QP	43.5	-21.4	2.00 H	195	35.3	-13.2
2	327.79	32.8 QP	46.0	-13.2	1.00 H	9	44.4	-11.6
3	448.07	29.6 QP	46.0	-16.4	1.00 H	103	38.3	-8.7
4	599.39	28.2 QP	46.0	-17.8	1.50 H	221	33.5	-5.3
5	703.18	27.7 QP	46.0	-18.3	1.00 H	243	31.6	-3.9
6	903.00	29.9 QP	46.0	-16.1	1.50 H	18	31.3	-1.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

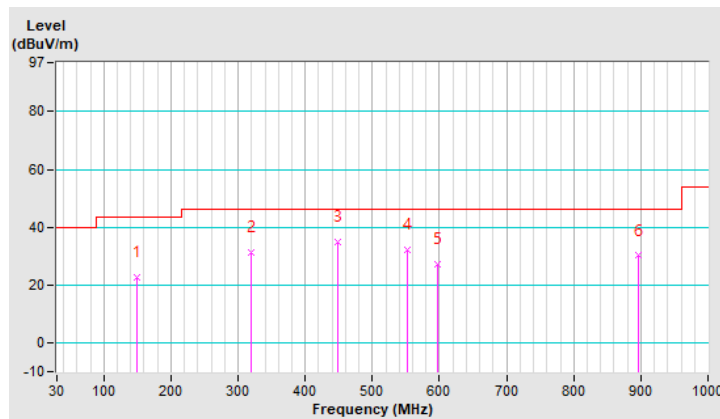


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.7 QP	43.5	-20.8	1.00 V	232	35.9	-13.2
2	320.03	31.1 QP	46.0	-14.9	1.51 V	338	43.0	-11.9
3	448.07	34.8 QP	46.0	-11.2	1.00 V	245	43.5	-8.7
4	551.86	32.2 QP	46.0	-13.8	1.00 V	108	39.2	-7.0
5	597.45	27.0 QP	46.0	-19.0	1.00 V	53	32.4	-5.4
6	896.21	30.1 QP	46.0	-15.9	2.00 V	328	31.8	-1.7

Remarks:

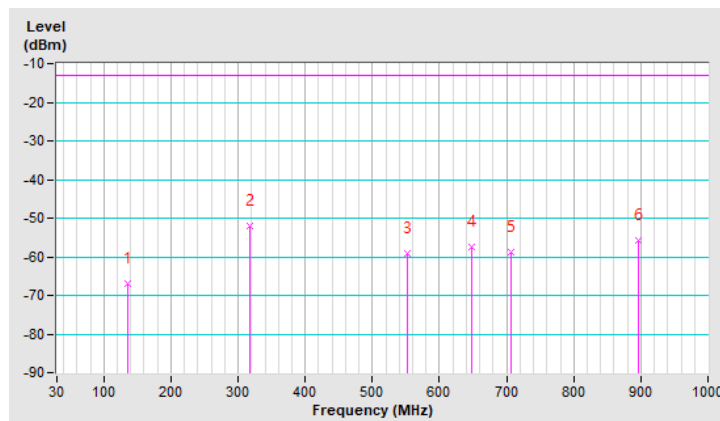
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	135.73	-67.1	-13.0	-54.1	2.00 H	279	42.0	-109.1
2	318.09	-52.1	-13.0	-39.1	1.01 H	220	55.2	-107.3
3	551.86	-59.0	-13.0	-46.0	1.51 H	83	43.3	-102.3
4	647.89	-57.5	-13.0	-44.5	1.51 H	49	42.4	-99.9
5	706.09	-58.9	-13.0	-45.9	1.51 H	303	40.3	-99.2
6	897.18	-55.9	-13.0	-42.9	2.00 H	37	41.1	-97.0

Remarks:

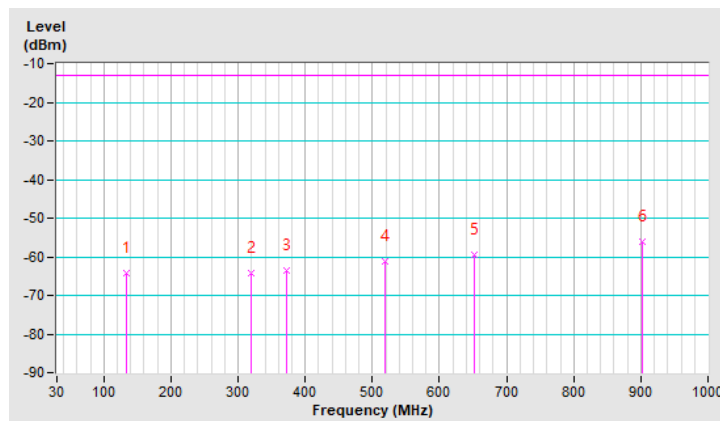
1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-64.4	-13.0	-51.4	1.00 V	137	45.0	-109.4
2	319.06	-64.3	-13.0	-51.3	1.99 V	15	43.0	-107.3
3	371.44	-63.5	-13.0	-50.5	1.00 V	317	42.4	-105.9
4	519.85	-61.2	-13.0	-48.2	1.00 V	340	41.5	-102.7
5	652.74	-59.6	-13.0	-46.6	1.00 V	142	40.4	-100.0
6	903.00	-56.2	-13.0	-43.2	1.99 V	194	40.5	-96.7

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 7

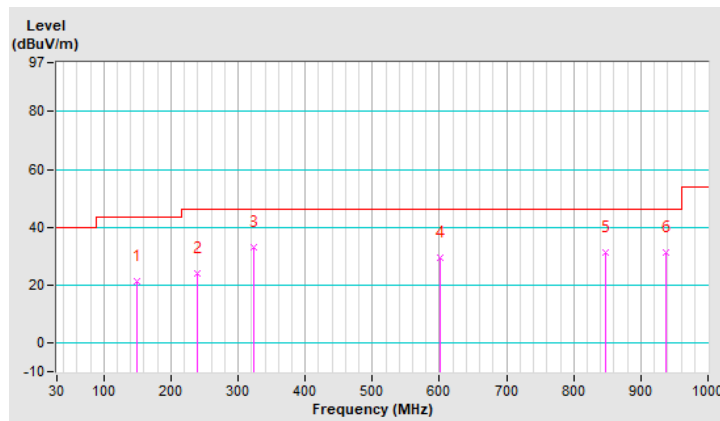
802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 4, CH 1312

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	21.2 QP	43.5	-22.3	2.00 H	196	34.4	-13.2
2	239.52	24.0 QP	46.0	-22.0	1.01 H	255	38.6	-14.6
3	322.94	32.9 QP	46.0	-13.1	1.01 H	174	44.7	-11.8
4	600.36	29.4 QP	46.0	-16.6	1.01 H	18	34.8	-5.4
5	846.74	31.3 QP	46.0	-14.7	1.01 H	101	33.4	-2.1
6	937.92	31.1 QP	46.0	-14.9	2.00 H	309	31.7	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

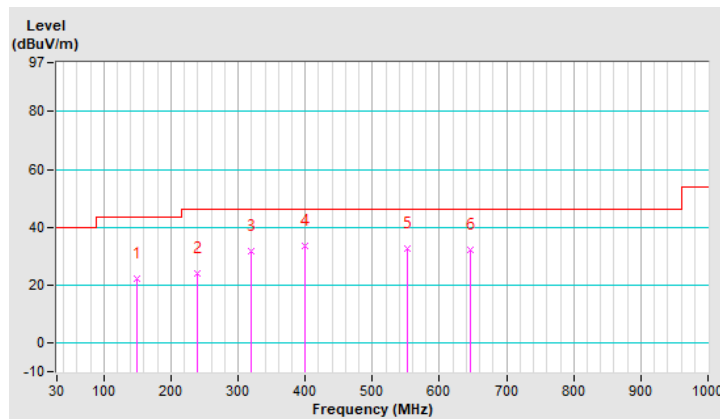


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.1 QP	43.5	-21.4	1.99 V	44	35.3	-13.2
2	239.52	23.9 QP	46.0	-22.1	1.00 V	47	38.5	-14.6
3	320.03	31.9 QP	46.0	-14.1	1.49 V	319	43.8	-11.9
4	399.57	33.6 QP	46.0	-12.4	1.00 V	57	43.7	-10.1
5	551.86	32.8 QP	46.0	-13.2	1.00 V	112	39.8	-7.0
6	646.92	32.0 QP	46.0	-14.0	1.49 V	105	36.6	-4.6

Remarks:

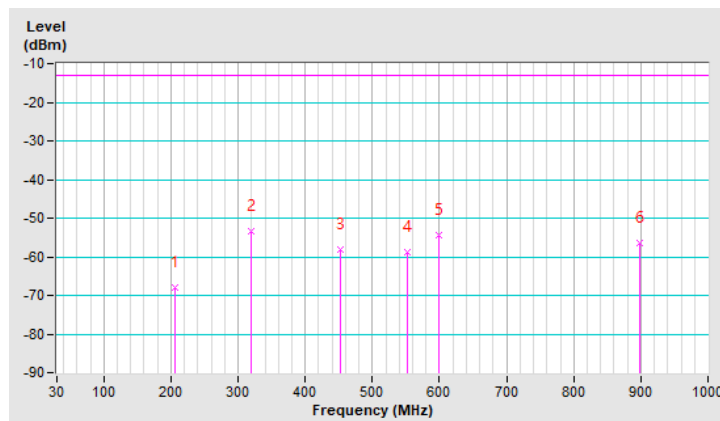
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	205.57	-67.9	-13.0	-54.9	1.49 H	279	43.8	-111.7
2	319.06	-53.3	-13.0	-40.3	1.00 H	252	54.0	-107.3
3	451.95	-58.3	-13.0	-45.3	2.00 H	72	45.6	-103.9
4	551.86	-58.7	-13.0	-45.7	2.00 H	66	43.6	-102.3
5	599.39	-54.3	-13.0	-41.3	1.49 H	287	46.3	-100.6
6	898.15	-56.5	-13.0	-43.5	1.00 H	286	40.5	-97.0

Remarks:

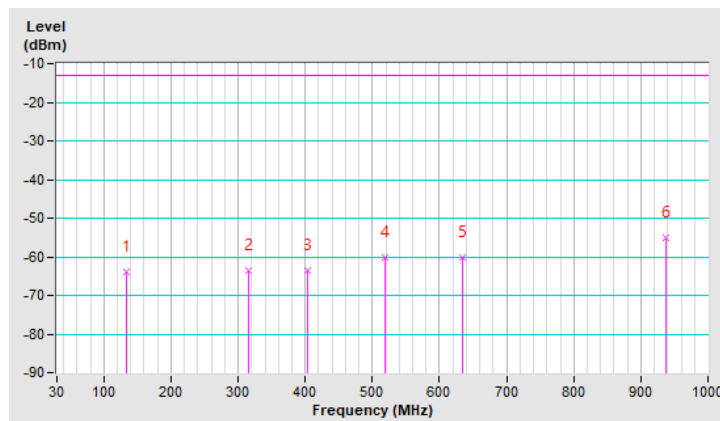
1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-63.9	-13.0	-50.9	1.01 V	190	45.5	-109.4
2	316.15	-63.6	-13.0	-50.6	1.01 V	295	43.7	-107.3
3	404.42	-63.6	-13.0	-50.6	1.51 V	210	41.7	-105.3
4	519.85	-60.0	-13.0	-47.0	1.01 V	83	42.7	-102.7
5	633.34	-60.1	-13.0	-47.1	1.01 V	278	40.1	-100.2
6	937.92	-55.0	-13.0	-42.0	1.01 V	44	40.9	-95.9

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 8

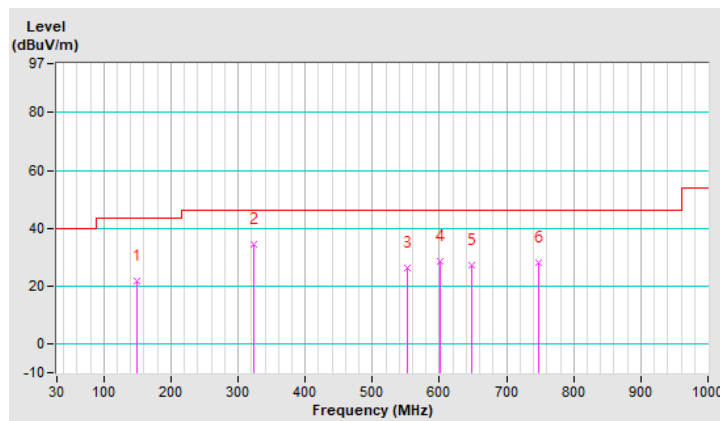
802.11a, CH 116 + BT EDR, CH0 + WCDMA Band 5, CH 4233

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	21.8 QP	43.5	-21.7	2.00 H	317	35.0	-13.2
2	322.94	34.5 QP	46.0	-11.5	1.00 H	207	46.3	-11.8
3	552.83	26.1 QP	46.0	-19.9	2.00 H	2	33.0	-6.9
4	600.36	28.7 QP	46.0	-17.3	1.49 H	13	34.1	-5.4
5	647.89	27.2 QP	46.0	-18.8	1.49 H	179	31.8	-4.6
6	746.83	28.2 QP	46.0	-17.8	1.00 H	146	31.3	-3.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

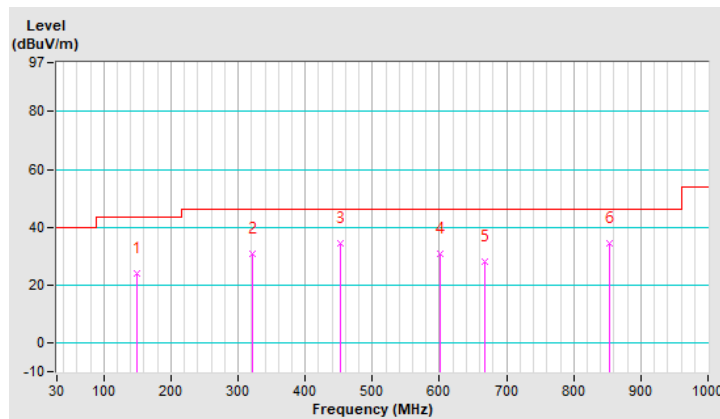


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	23.9 QP	43.5	-19.6	2.00 V	26	37.1	-13.2
2	321.00	31.0 QP	46.0	-15.0	1.51 V	327	42.9	-11.9
3	451.95	34.5 QP	46.0	-11.5	1.51 V	246	43.1	-8.6
4	600.36	31.0 QP	46.0	-15.0	1.51 V	6	36.4	-5.4
5	668.26	27.9 QP	46.0	-18.1	1.01 V	53	32.4	-4.5
6	853.53	34.5 QP	46.0	-11.5	1.01 V	18	36.5	-2.0

Remarks:

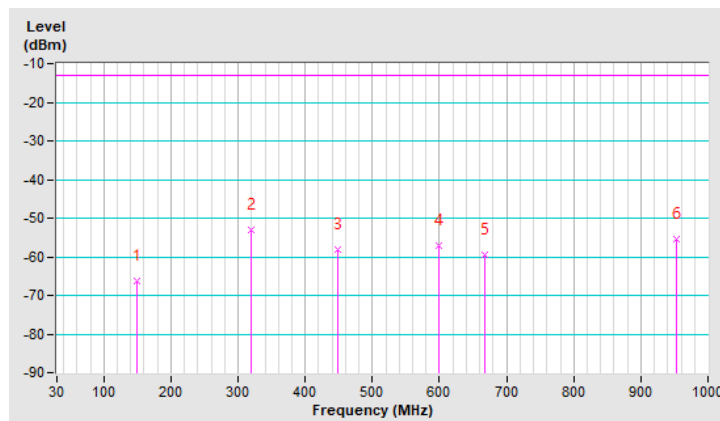
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	-66.3	-13.0	-53.3	1.99 H	192	44.4	-110.7
2	319.06	-53.0	-13.0	-40.0	1.00 H	224	56.4	-109.4
3	448.07	-58.0	-13.0	-45.0	1.00 H	64	48.2	-106.2
4	599.39	-57.0	-13.0	-44.0	1.49 H	255	45.8	-102.8
5	667.29	-59.6	-13.0	-46.6	1.00 H	4	42.3	-101.9
6	953.44	-55.3	-13.0	-42.3	1.00 H	223	42.7	-98.0

Remarks:

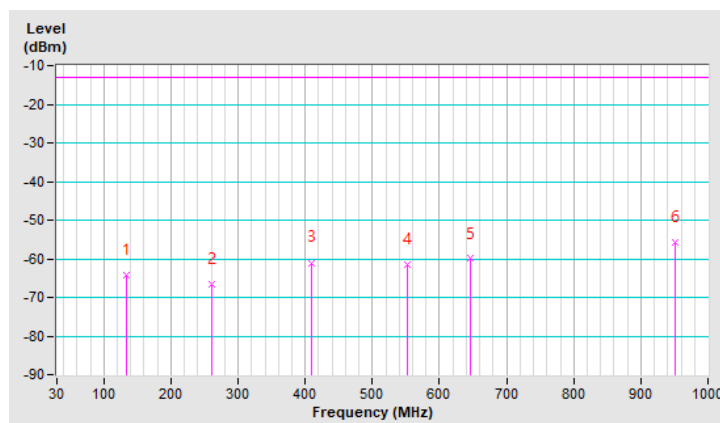
1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-64.3	-13.0	-51.3	1.00 V	180	45.1	-109.4
2	260.86	-66.6	-13.0	-53.6	1.00 V	61	42.6	-109.2
3	409.27	-61.0	-13.0	-48.0	1.00 V	229	44.2	-105.2
4	551.86	-61.5	-13.0	-48.5	2.00 V	14	40.8	-102.3
5	646.92	-60.0	-13.0	-47.0	1.51 V	305	39.9	-99.9
6	951.50	-55.8	-13.0	-42.8	1.51 V	340	40.0	-95.8

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 9

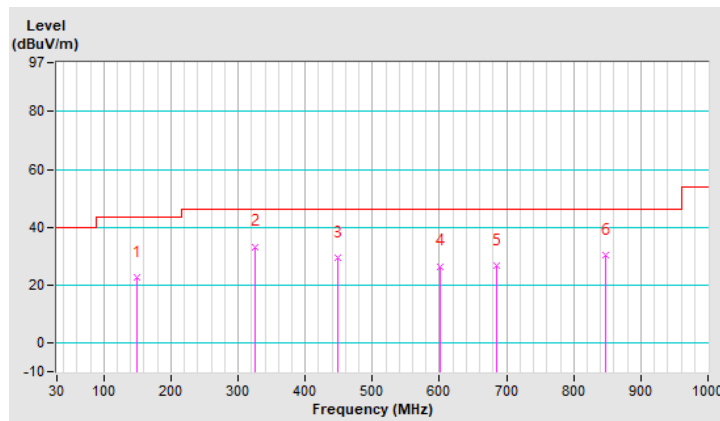
802.11a, CH 116 + BT EDR, CH0 + LTE Band 13, CH 23230

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.6 QP	43.5	-20.9	2.00 H	237	35.8	-13.2
2	324.88	33.3 QP	46.0	-12.7	1.01 H	16	45.0	-11.7
3	448.07	29.3 QP	46.0	-16.7	1.01 H	116	38.0	-8.7
4	601.33	26.5 QP	46.0	-19.5	1.51 H	338	31.9	-5.4
5	684.75	26.8 QP	46.0	-19.2	2.00 H	4	31.1	-4.3
6	846.74	30.2 QP	46.0	-15.8	1.01 H	108	32.3	-2.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

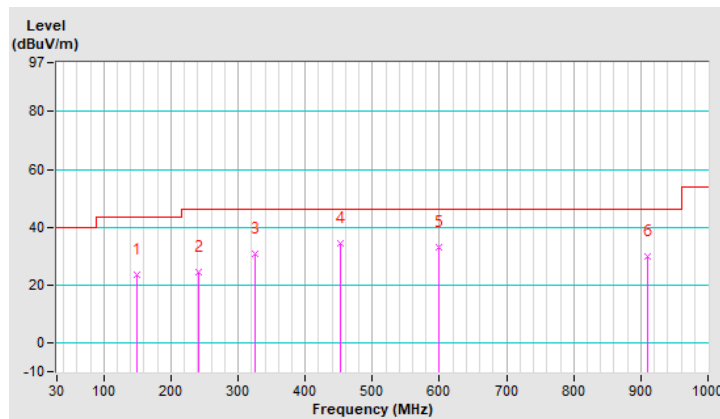


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	23.4 QP	43.5	-20.1	1.00 V	247	36.6	-13.2
2	240.49	24.6 QP	46.0	-21.4	1.00 V	53	39.2	-14.6
3	324.88	30.7 QP	46.0	-15.3	1.49 V	259	42.4	-11.7
4	451.95	34.5 QP	46.0	-11.5	1.00 V	106	43.1	-8.6
5	599.39	33.0 QP	46.0	-13.0	1.00 V	331	38.3	-5.3
6	909.79	29.8 QP	46.0	-16.2	1.00 V	12	31.0	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

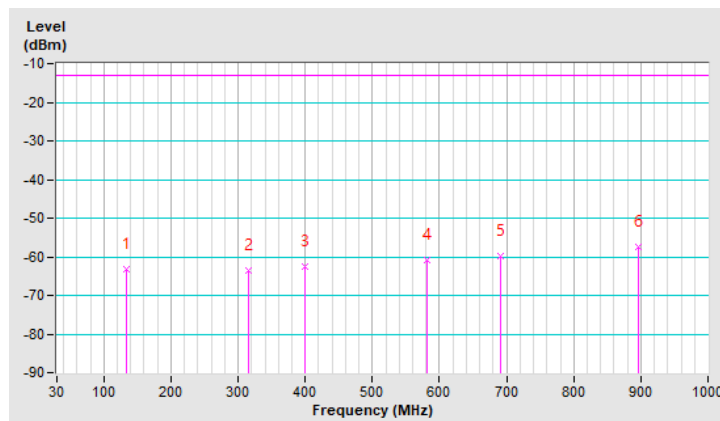


Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-63.1	-13.0	-50.1	1.00 H	147	48.5	-111.6
2	316.15	-63.6	-13.0	-50.6	1.00 H	308	45.8	-109.4
3	399.57	-62.5	-13.0	-49.5	1.00 H	239	45.0	-107.5
4	581.93	-61.0	-13.0	-48.0	1.00 H	329	42.4	-103.4
5	691.54	-59.7	-13.0	-46.7	1.99 H	348	41.9	-101.6
6	896.21	-57.4	-13.0	-44.4	1.50 H	52	41.8	-99.2

Remarks:

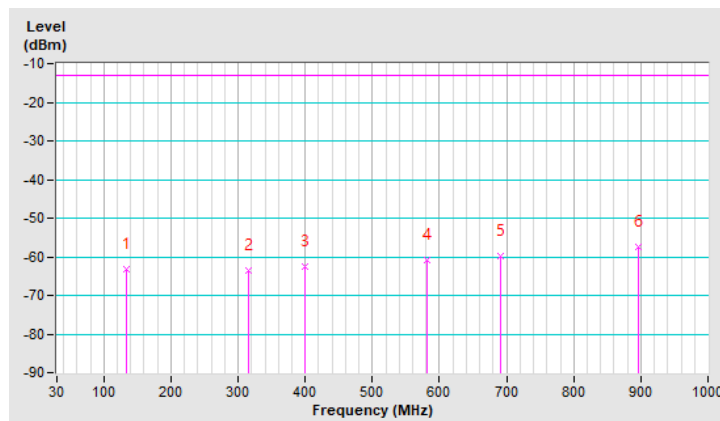
1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-63.1	-13.0	-50.1	1.00 V	147	48.5	-111.6
2	316.15	-63.6	-13.0	-50.6	1.00 V	308	45.8	-109.4
3	399.57	-62.5	-13.0	-49.5	1.00 V	239	45.0	-107.5
4	581.93	-61.0	-13.0	-48.0	1.00 V	329	42.4	-103.4
5	691.54	-59.7	-13.0	-46.7	1.99 V	348	41.9	-101.6
6	896.21	-57.4	-13.0	-44.4	1.50 V	52	41.8	-99.2

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode 10

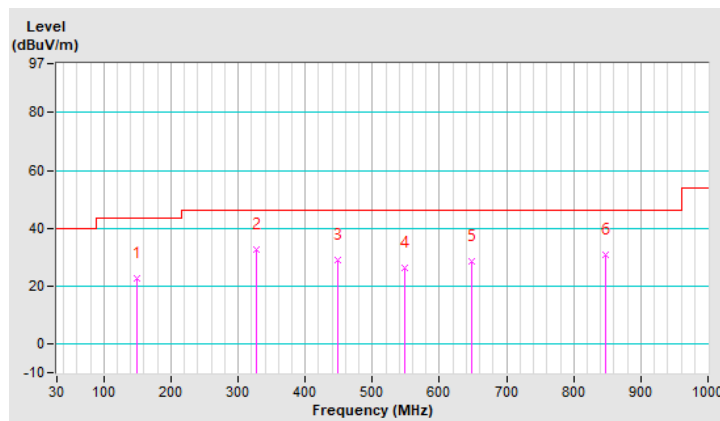
802.11a, CH 116 + BT EDR, CH0 + LTE Band 14, CH 23355

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	22.6 QP	43.5	-20.9	1.99 H	183	35.8	-13.2
2	326.82	32.6 QP	46.0	-13.4	1.00 H	204	44.2	-11.6
3	448.07	29.1 QP	46.0	-16.9	1.00 H	237	37.8	-8.7
4	547.98	26.3 QP	46.0	-19.7	1.49 H	194	33.4	-7.1
5	647.89	28.5 QP	46.0	-17.5	1.49 H	18	33.1	-4.6
6	846.74	31.0 QP	46.0	-15.0	1.00 H	120	33.1	-2.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

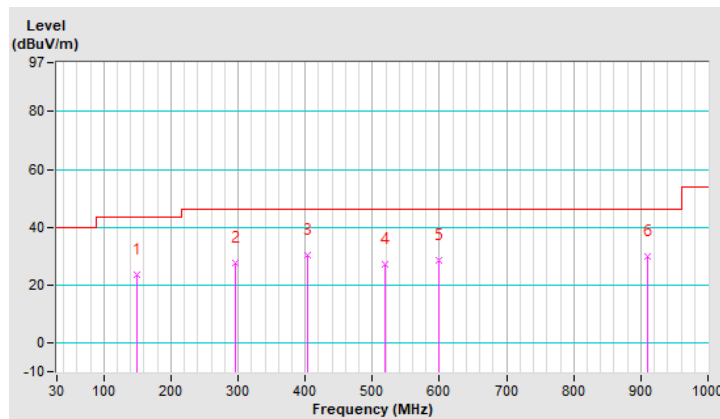


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	148.34	23.7 QP	43.5	-19.8	1.01 V	340	36.9	-13.2
2	296.75	27.7 QP	46.0	-18.3	1.51 V	180	40.2	-12.5
3	403.45	30.4 QP	46.0	-15.6	1.01 V	209	40.4	-10.0
4	519.85	27.2 QP	46.0	-18.8	1.51 V	89	34.6	-7.4
5	599.39	28.4 QP	46.0	-17.6	1.01 V	193	33.7	-5.3
6	909.79	29.7 QP	46.0	-16.3	1.01 V	112	30.9	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

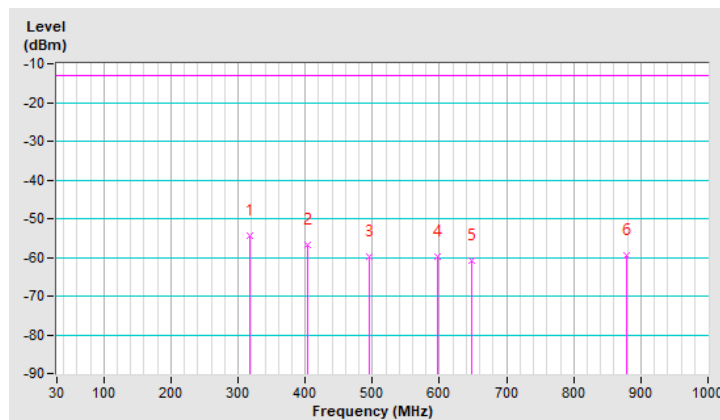


Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	318.09	-54.5	-13.0	-41.5	1.01 H	213	54.9	-109.4
2	404.42	-56.7	-13.0	-43.7	1.01 H	56	50.8	-107.5
3	495.60	-59.8	-13.0	-46.8	2.00 H	261	45.5	-105.3
4	596.48	-59.8	-13.0	-46.8	2.00 H	263	43.1	-102.9
5	647.89	-60.9	-13.0	-47.9	1.50 H	69	41.1	-102.0
6	877.78	-59.5	-13.0	-46.5	1.50 H	352	39.8	-99.3

Remarks:

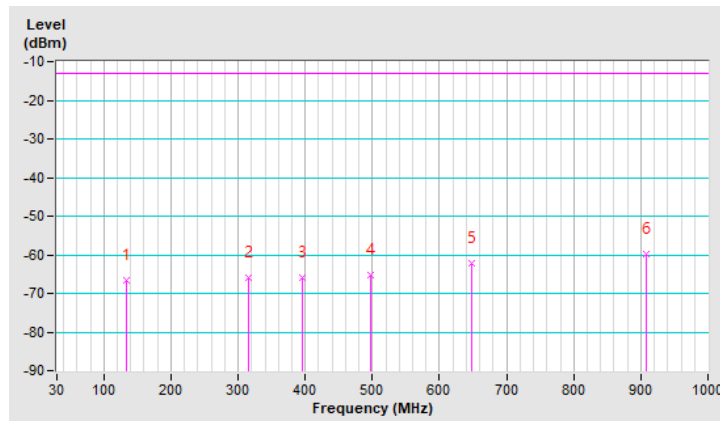
1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.82	-66.5	-13.0	-53.5	1.00 V	136	45.1	-111.6
2	316.15	-65.9	-13.0	-52.9	1.00 V	296	43.5	-109.4
3	395.69	-66.0	-13.0	-53.0	1.99 V	175	41.5	-107.5
4	497.54	-65.2	-13.0	-52.2	1.50 V	18	40.1	-105.3
5	647.89	-62.3	-13.0	-49.3	1.00 V	262	39.7	-102.0
6	908.82	-59.8	-13.0	-46.8	1.50 V	288	38.9	-98.7

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

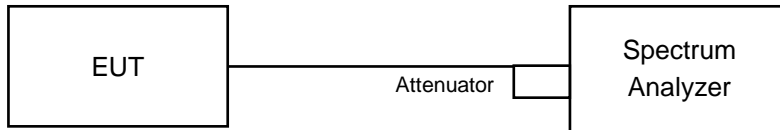


4.2 Conducted Out of Band Emission Measurement

4.2.1 Limits of Conducted Out of Band Emission Measurement

Below 30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW \geq 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- Set RBW = 100 kHz.
- Set VBW \geq 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

4.2.5 Deviation from Test Standard

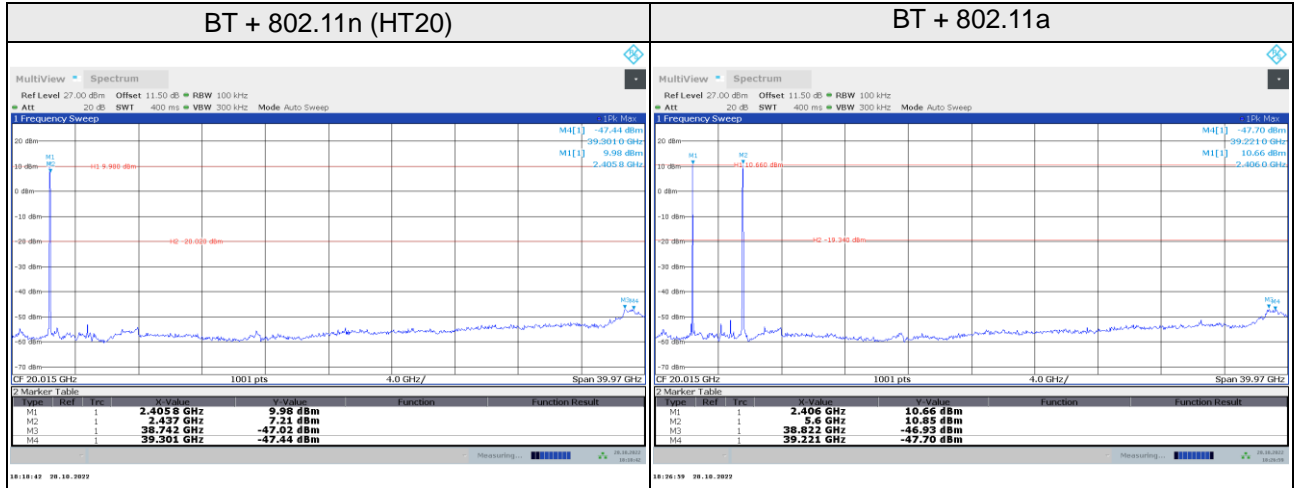
No deviation.

4.2.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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