

Supplemental “Transmit Simultaneously” Test Report

Report No.: RFBARR-WTW-P23110067-6

FCC ID: RAS-MT7925B14L

Test Model: MT7925B14L

Received Date: 2023/11/6

Test Date: 2024/1/15 ~ 2024/2/5

Issued Date: 2024/2/23

Applicant: MediaTek Inc.

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P23110067-6	Original release.	2024/2/23

1 Certificate of Conformity

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7925B14L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2024/1/15 ~ 2024/2/5

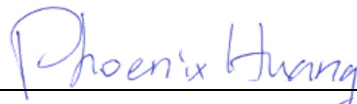
Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10: 2013

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 EMC characteristics under the conditions specified in this report.

Prepared by :


Phoenix Huang / Specialist

Date:

2024/2/23

Approved by :


May Chen / Manager

Date:

2024/2/23

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C, E (SECTION 15.247, 15.407)			
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d) 15.407(b) (1/2/3/4(i)/5/6/10)	Radiated Unwanted Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.5 dB at 696.12 MHz and 696.14 MHz.

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) ($\pm$)
Conducted emissions	9 kHz ~ 40 GHz	2.6 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B14L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	WLAN: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode BT-EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK BT-LE: GFSK
Modulation Technology	WLAN: DSSS, OFDM, OFDMA BT-EDR: FHSS BT-LE: DTS
Transfer Rate	WLAN: 802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 1441.2 Mbps BT-EDR: up to 3 Mbps BT-LE: 125 kbps / 500 kbps / 1 Mbps / 2 Mbps
Operating Frequency	WLAN: 2.4GHz: 2.412 GHz ~ 2.472 GHz 5GHz: 5.18 GHz ~ 5.32 GHz, 5.5 GHz ~ 5.72 GHz, 5.745 GHz ~ 5.825 GHz 5.9GHz: 5.815 GHz ~ 5.885 GHz 6GHz: 5.955 GHz ~ 6.415 GHz 6.435 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz BT-EDR: 2.402 GHz ~ 2.48 GHz BT-LE: 2.402 GHz ~ 2.48 GHz
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory	N/A

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5 GHz) (2TX)	Bluetooth
2	WLAN (5.9 GHz) (2TX)	Bluetooth
3	WLAN (6 GHz) (2TX)	Bluetooth
4	WLAN (2.4 GHz) (1TX)	WLAN (5 GHz) (1TX)
5	WLAN (2.4 GHz) (1TX)	WLAN (5.9 GHz) (1TX)
6	WLAN (2.4 GHz) (1TX)	WLAN (6 GHz) (1TX)

3. The antenna information is listed as below.

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
3	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	300
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	300

4. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1TX (Diversity) / 2TX	2RX
802.11g	1TX (Diversity) / 2TX	2RX
802.11n (HT20)	1TX (Diversity) / 2TX	2RX
802.11n (HT40)	1TX (Diversity) / 2TX	2RX
VHT20	1TX (Diversity) / 2TX	2RX
VHT40	1TX (Diversity) / 2TX	2RX
802.11ax (HE20)	1TX (Diversity) / 2TX	2RX
802.11ax (HE40)	1TX (Diversity) / 2TX	2RX
802.11be (EHT20)	1TX (Diversity) / 2TX	2RX
802.11be (EHT40)	1TX (Diversity) / 2TX	2RX
802.11ax (RU26/52/106/242/484)	1TX (Diversity) / 2TX	2RX
802.11be (RU26/52/106/242/484 MRU52+26/106+26)	1TX (Diversity) / 2TX	2RX
5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX (Diversity) / 2TX	2RX
802.11n (HT20)	1TX (Diversity) / 2TX	2RX
802.11n (HT40)	1TX (Diversity) / 2TX	2RX
802.11ac (VHT20)	1TX (Diversity) / 2TX	2RX
802.11ac (VHT40)	1TX (Diversity) / 2TX	2RX
802.11ac (VHT80)	1TX (Diversity) / 2TX	2RX
802.11ac (VHT160)	1TX (Diversity) / 2TX	2RX
802.11ax (HE20)	1TX (Diversity) / 2TX	2RX
802.11ax (HE40)	1TX (Diversity) / 2TX	2RX
802.11ax (HE80)	1TX (Diversity) / 2TX	2RX
802.11ax (HE160)	1TX (Diversity) / 2TX	2RX
802.11be (EHT20)	1TX (Diversity) / 2TX	2RX
802.11be (EHT40)	1TX (Diversity) / 2TX	2RX
802.11be (EHT80)	1TX (Diversity) / 2TX	2RX
802.11ax (RU26/52/106/242/484/996/2x996)	1TX (Diversity) / 2TX	2RX
802.11be (RU26/52/106/242/484/996/2x996 MRU52+26/106+26/484+242)	1TX (Diversity) / 2TX	2RX

5. The EUT incorporates a MIMO function:

Modulation Mode	5.9 GHz Band		6 GHz Band	
	TX & RX Configuration		TX & RX Configuration	
802.11a	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11n (HT20)	1TX (Diversity) / 2TX	2RX	-	-
802.11n (HT40)	1TX (Diversity) / 2TX	2RX	-	-
802.11ac (VHT20)	1TX (Diversity) / 2TX	2RX	-	-
802.11ac (VHT40)	1TX (Diversity) / 2TX	2RX	-	-
802.11ac (VHT80)	1TX (Diversity) / 2TX	2RX	-	-
802.11ac (VHT160)	1TX (Diversity) / 2TX	2RX	-	-
802.11ax (HE20)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11ax (HE40)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11ax (HE80)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11ax (HE160)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11be (EHT20)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11be (EHT40)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11be (EHT80)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11be (EHT160)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11ax (RU26/52/106/242/484/996/2x996)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX
802.11be (RU26/52/106/242/484/996/2x996 MRU52+26/106+26/ 484+242/996+484/996+484+242)	1TX (Diversity) / 2TX	2RX	1TX (Diversity) / 2TX	2RX

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.1.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To			Description
	RE $\geq$ 1G	RE<1G	OB	
1	√	√	√	WLAN (5 GHz) (2TX) + Bluetooth
2	√	√	√	WLAN (5.9 GHz) (2TX) + Bluetooth
3	√	√	√	WLAN (6 GHz) (2TX) + Bluetooth
4	√	√	√	WLAN (2.4 GHz) (1TX) + WLAN (5 GHz) (1TX)
5	√	√	√	WLAN (2.4 GHz) (1TX) + WLAN (5.9 GHz) (1TX)
6	√	√	√	WLAN (2.4 GHz) (1TX) + WLAN (6 GHz) (1TX)

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

RE<1G: Radiated Emission below 1GHz

Radiated Emission Test (Above 1GHz):

☒ The tested configurations represent the worst-case mode from all possible combinations by the maximum power.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
1	5GHz: 802.11be (EHT20) + BT-LE 125k	36 to 48 149 to 165	165	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
2	5.9GHz: 802.11be (EHT40) + BT-LE 125k	157 to 175	175	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
3	6GHz: 802.11be (EHT80) + BT-LE 125k	7 to 215	167	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
4	2.4GHz: 802.11b + 5GHz: 802.11be (EHT20)	1 to 11	6	DSSS	DBPSK
		36 to 48 149 to 165	165	OFDMA	BPSK
5	2.4GHz: 802.11b + 5.9GHz: 802.11be (EHT40)	1 to 11	6	DSSS	DBPSK
		157 to 175	167	OFDMA	BPSK
6	2.4GHz: 802.11b + 6GHz: 802.11be (EHT80)	1 to 11	6	DSSS	DBPSK
		7 to 215	167	OFDMA	BPSK

Radiated Emission Test (Below 1GHz):

☒ The tested configurations represent the worst-case mode from all possible combinations by the maximum power.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
1	5GHz: 802.11be (EHT20) + BT-LE 125k	36 to 48 149 to 165	165	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
2	5.9GHz: 802.11be (EHT40) + BT-LE 125k	157 to 175	175	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
3	6GHz: 802.11be (EHT80) + BT-LE 125k	7 to 215	167	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
4	2.4GHz: 802.11b + 5GHz: 802.11be (EHT20)	1 to 11	6	DSSS	DBPSK
		36 to 48 149 to 165	165	OFDMA	BPSK
5	2.4GHz: 802.11b + 5.9GHz: 802.11be (EHT40)	1 to 11	6	DSSS	DBPSK
		157 to 175	167	OFDMA	BPSK
6	2.4GHz: 802.11b + 6GHz: 802.11be (EHT80)	1 to 11	6	DSSS	DBPSK
		7 to 215	167	OFDMA	BPSK

Conducted Out-Band Emission Measurement:

☒ The tested configurations represent the worst-case mode from all possible combinations by the maximum power.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
1	5GHz: 802.11be (EHT20) + BT-LE 125k	36 to 48 149 to 165	165	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
2	5.9GHz: 802.11be (EHT40) + BT-LE 125k	157 to 175	175	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
3	6GHz: 802.11be (EHT80) + BT-LE 125k	7 to 215	167	OFDMA	BPSK
		0 to 39	39	DTS	GFSK
4	2.4GHz: 802.11b + 5GHz: 802.11be (EHT20)	1 to 11	6	DSSS	DBPSK
		36 to 48 149 to 165	165	OFDMA	BPSK
5	2.4GHz: 802.11b + 5.9GHz: 802.11be (EHT40)	1 to 11	6	DSSS	DBPSK
		157 to 175	167	OFDMA	BPSK
6	2.4GHz: 802.11b + 6GHz: 802.11be (EHT80)	1 to 11	6	DSSS	DBPSK
		7 to 215	167	OFDMA	BPSK

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested By
RE $\geq$ 1G	20deg. C, 60%RH	120Vac, 60Hz (System)	Willy Lin
RE<1G	20deg. C, 60%RH	120Vac, 60Hz (System)	Willy Lin
OB	25deg. C, 60%RH	3.3 Vdc	Willy Lin

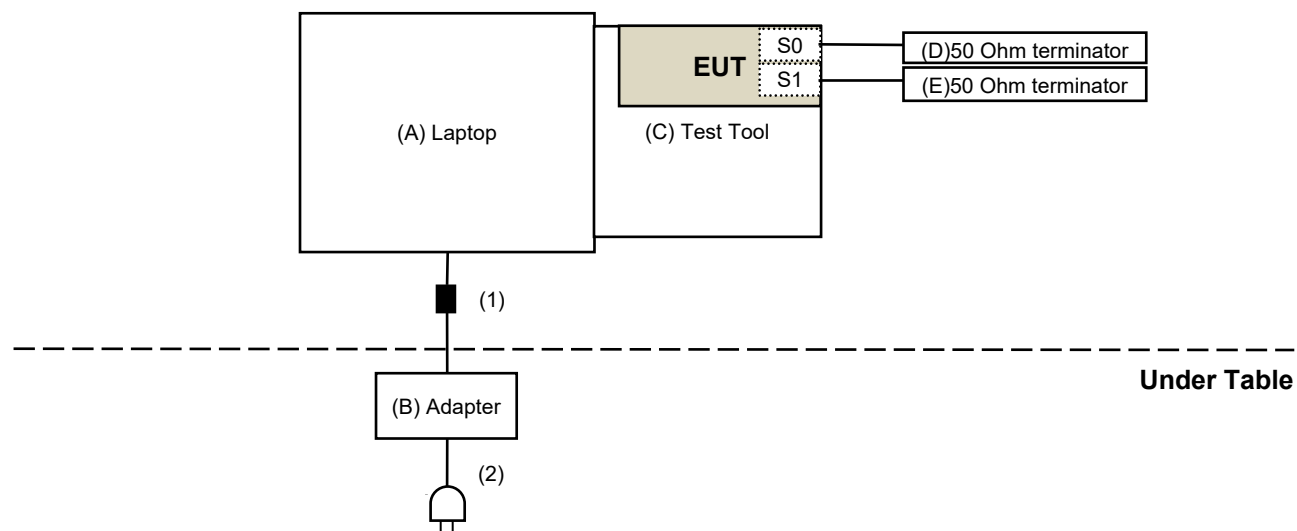
3.2 Description of Support Units

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	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
B	Adapter	DELL	LLA65NS2-01	N/A	N/A	Provided by Lab
C	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
D	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab
E	50 Ohm terminator	WOKEN	WTER-18S2	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

3.2.1 Configuration of System under Test



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.

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 (dBuV/m)	AV:54 (dBuV/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 (dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	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 (dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8 (dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4}

^{*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:

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

For transmitters operating in the 5850-5895 GHz band:

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

For transmitters operating in the 5.925-7125 GHz band:

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

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

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

4.1.2 Test Instruments

For Radiated Emission test: (below 1 GHz)

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2023/10/13	2024/10/12
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2023/12/12	2024/12/11
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXA Signal Analyzer Keysight	N9020B	MY60112408	2023/3/6	2024/3/5
MXE EMI Receiver Keysight	N9038A	MY59050100	2023/6/13	2024/6/12
Preamplifier EMCI	EMC330N	980701	2023/2/18	2024/2/17
	EMC001340	980142	2023/5/8	2024/5/7
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2023/12/12	2024/12/11
		LOOPCAB-002	2023/12/12	2024/12/11
RF Coaxial Cable PEWC	8D	966-4-1	2023/2/18	2024/2/17
		966-4-2	2023/2/18	2024/2/17
		966-4-3	2023/2/18	2024/2/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/1/15

For Radiated Emission test: (above 1 GHz)

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2023/11/12	2024/11/11
	BBHA 9170	9170-739	2023/11/12	2024/11/11
MXA Signal Analyzer Keysight	N9020B	MY60112408	2023/3/6	2024/3/5
Preamplifier EMCI	EMC12630SE	980688	2023/10/3	2024/10/2
	EMC184045SE	980387	2023/8/9	2024/8/8
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2023/8/9	2024/8/8
	EMC104-SM-SM-1200	160922	2023/8/9	2024/8/8
	EMC104-SM-SM-2000	180502	2023/3/27	2024/3/26
	EMC104-SM-SM-6000	210704	2023/11/2	2024/11/1
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/1/29

For other test:

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

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 Oven room 2.
3. Tested Date: 2024/1/31 ~ 2024/2/5

4.1.3 Test Procedures

Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

For Radiated emission below 30 MHz

- e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. 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-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. 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.

e-2.4. 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-2.5. 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.

Notes:

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 fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Unwanted Emission Convert Formula

- a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB)
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal
For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.
For the band edge the gain for the specific band may have been used.

Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

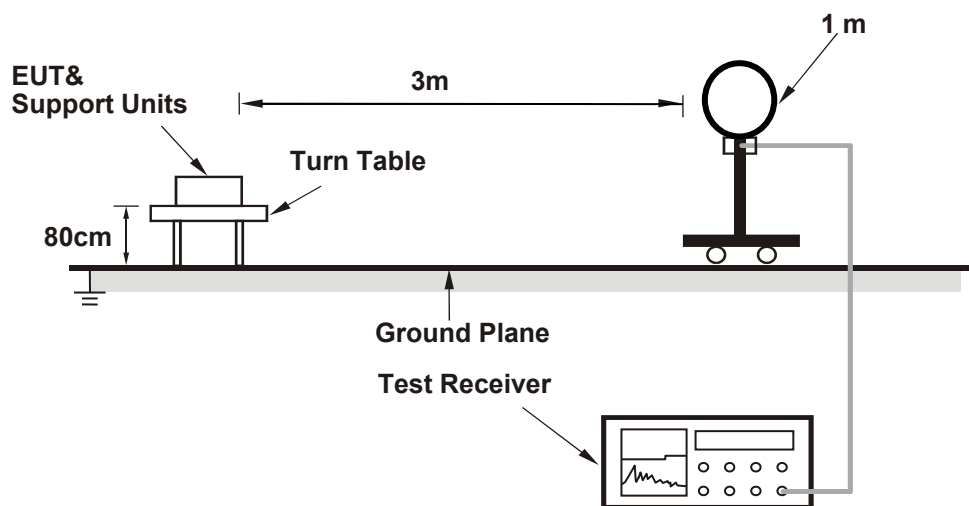
4.1.4 Deviation from Test Standard

No deviation.

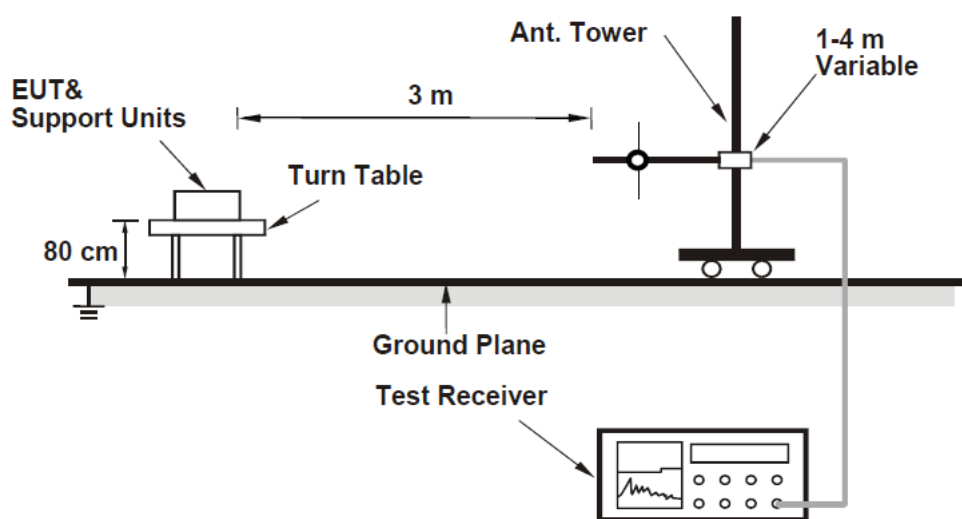
4.1.5 Test Setup

For Radiated Configuration:

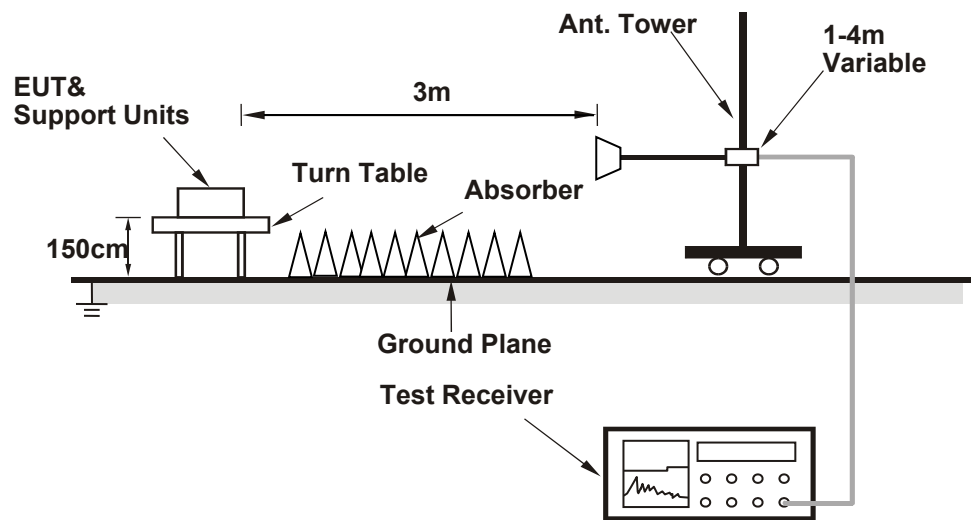
For Radiated emission below 30MHz



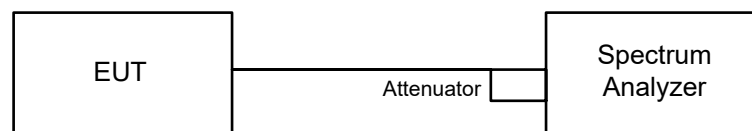
For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For Conducted Configuration:



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

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Controlling software (WLAN: QAtool_V16 (0.0.2.104) / Bluetooth: WCN_Combo_Tool) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results (Conducted Measurement)

For Mode 1

Above 1GHz Data:

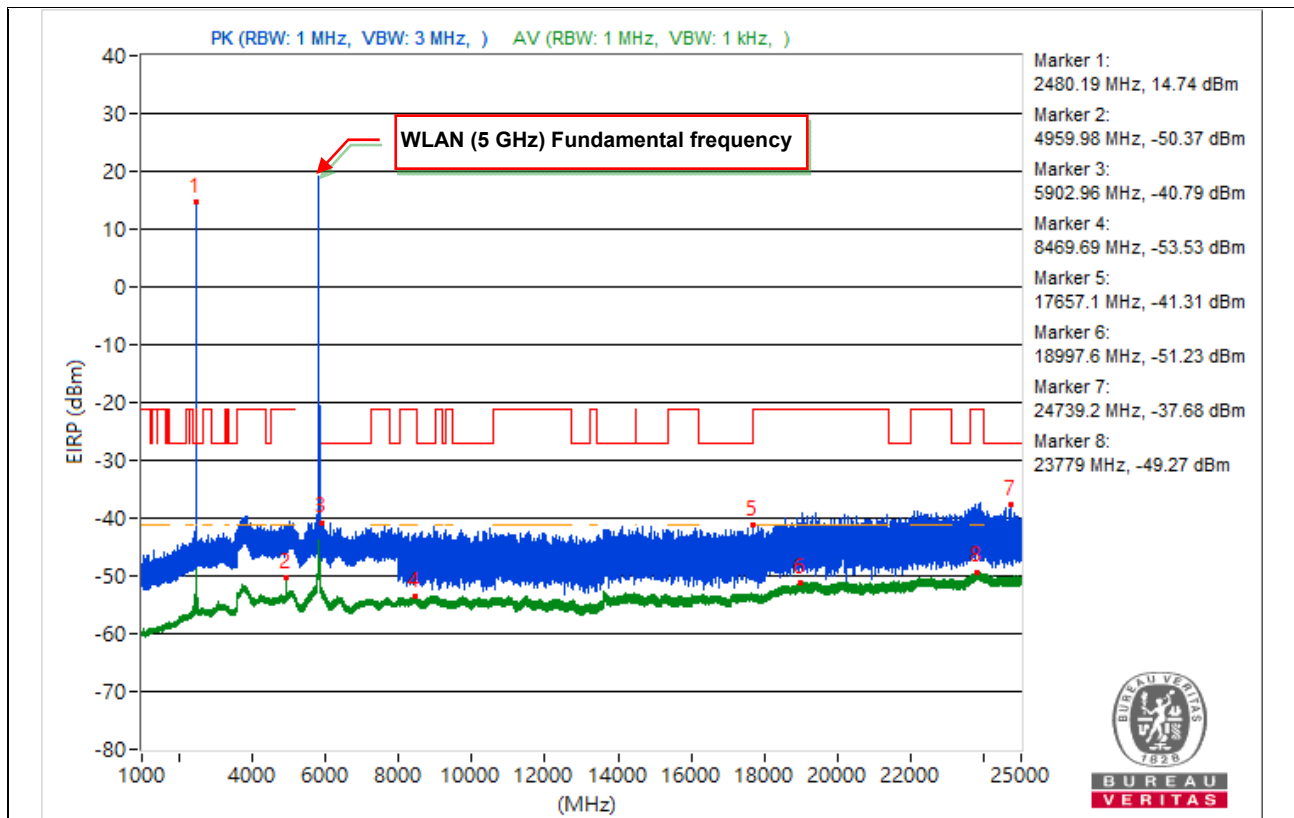
Conducted Unwanted Emissions

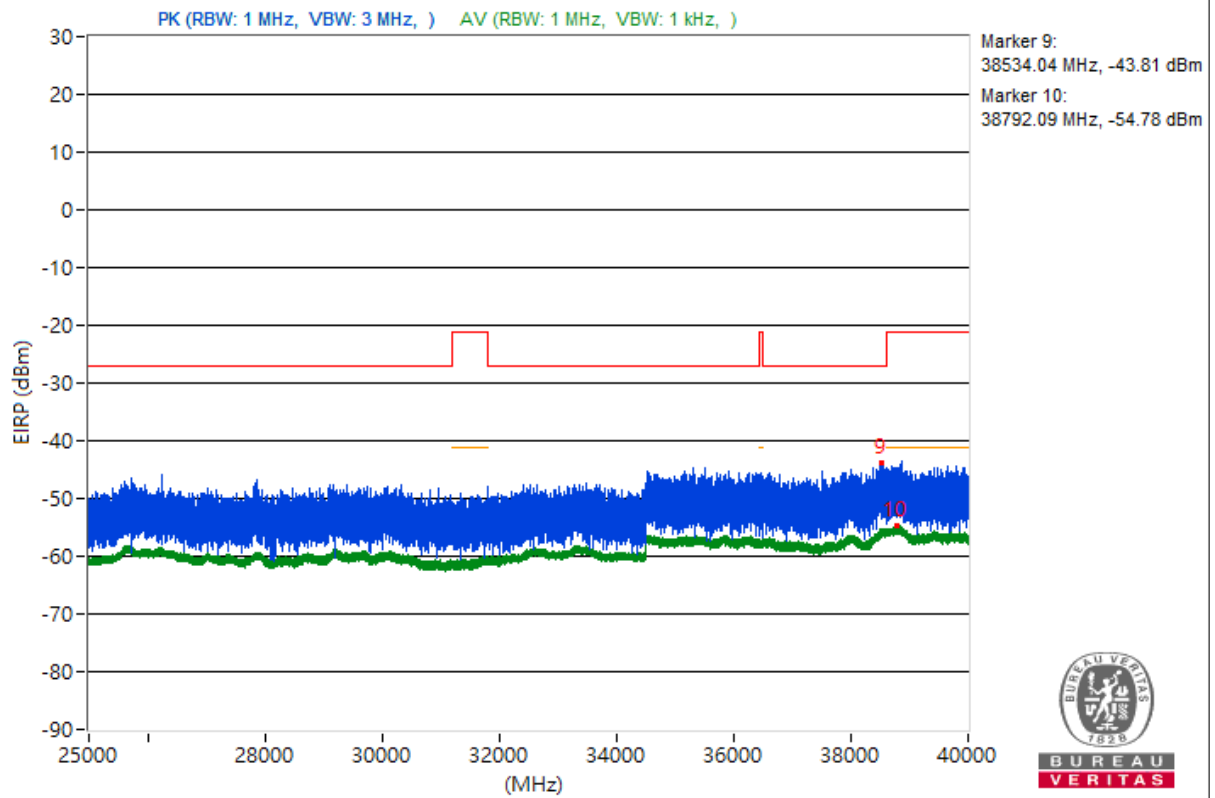
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.19	110 PK	-	-	9.82	4.92	14.74
2	4959.98	44.89 AV	54	-9.11	-55.29	4.92	-50.37
3	#5902.96	54.47 PK	68.26	-13.79	-45.71	4.92	-40.79
4	8469.69	41.73 AV	54	-12.27	-58.45	4.92	-53.53
5	#17657.1	53.95 PK	68.26	-14.31	-46.23	4.92	-41.31
6	18997.6	44.03 AV	54	-9.97	-56.15	4.92	-51.23
7	#24739.2	57.58 PK	68.26	-10.68	-42.6	4.92	-37.68
8	23779	45.99 AV	54	-8.01	-54.19	4.92	-49.27
9	#38534.04	51.45 PK	68.26	-16.81	-48.73	4.92	-43.81
10	38792.09	40.48 AV	54	-13.52	-59.7	4.92	-54.78

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

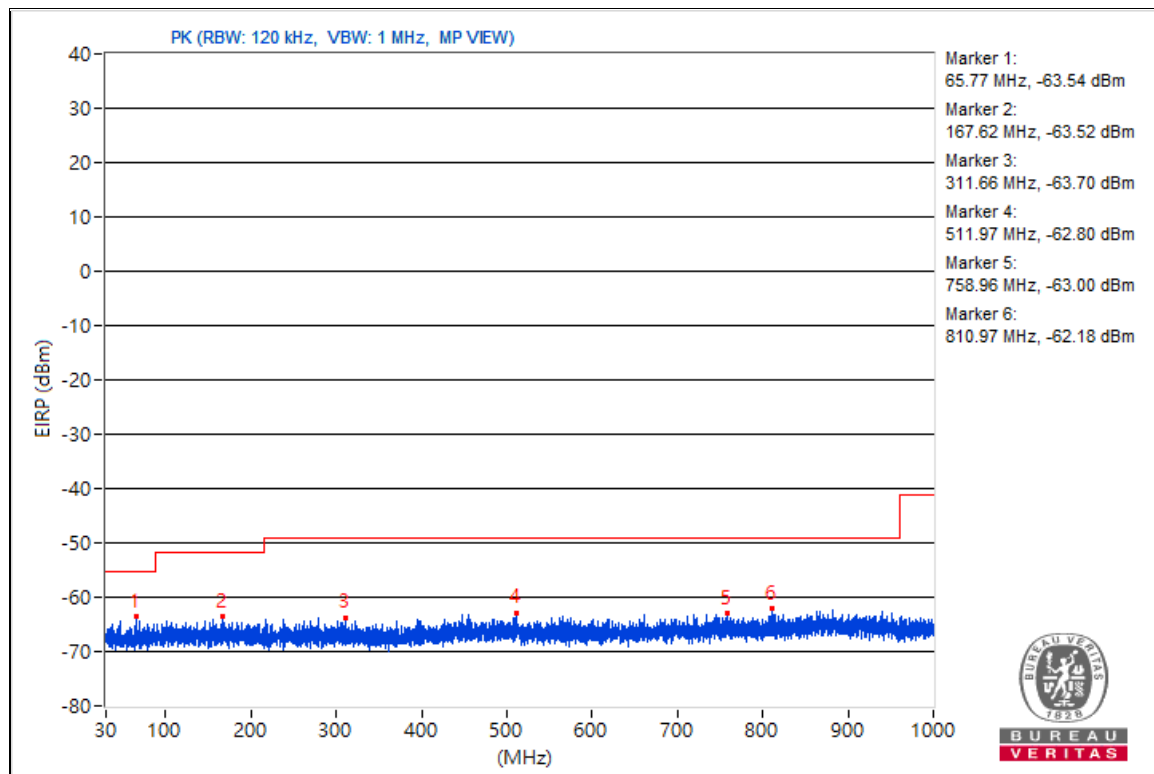
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	65.77	31.72 PK	40	-8.28	-73.16	9.62	-63.54
2	167.62	31.74 PK	43.5	-11.76	-73.14	9.62	-63.52
3	311.66	31.56 PK	46	-14.44	-73.32	9.62	-63.7
4	511.97	32.46 PK	46	-13.54	-72.42	9.62	-62.8
5	758.96	32.26 PK	46	-13.74	-72.62	9.62	-63
6	810.97	33.08 PK	46	-12.92	-71.8	9.62	-62.18

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 2

Above 1GHz Data:

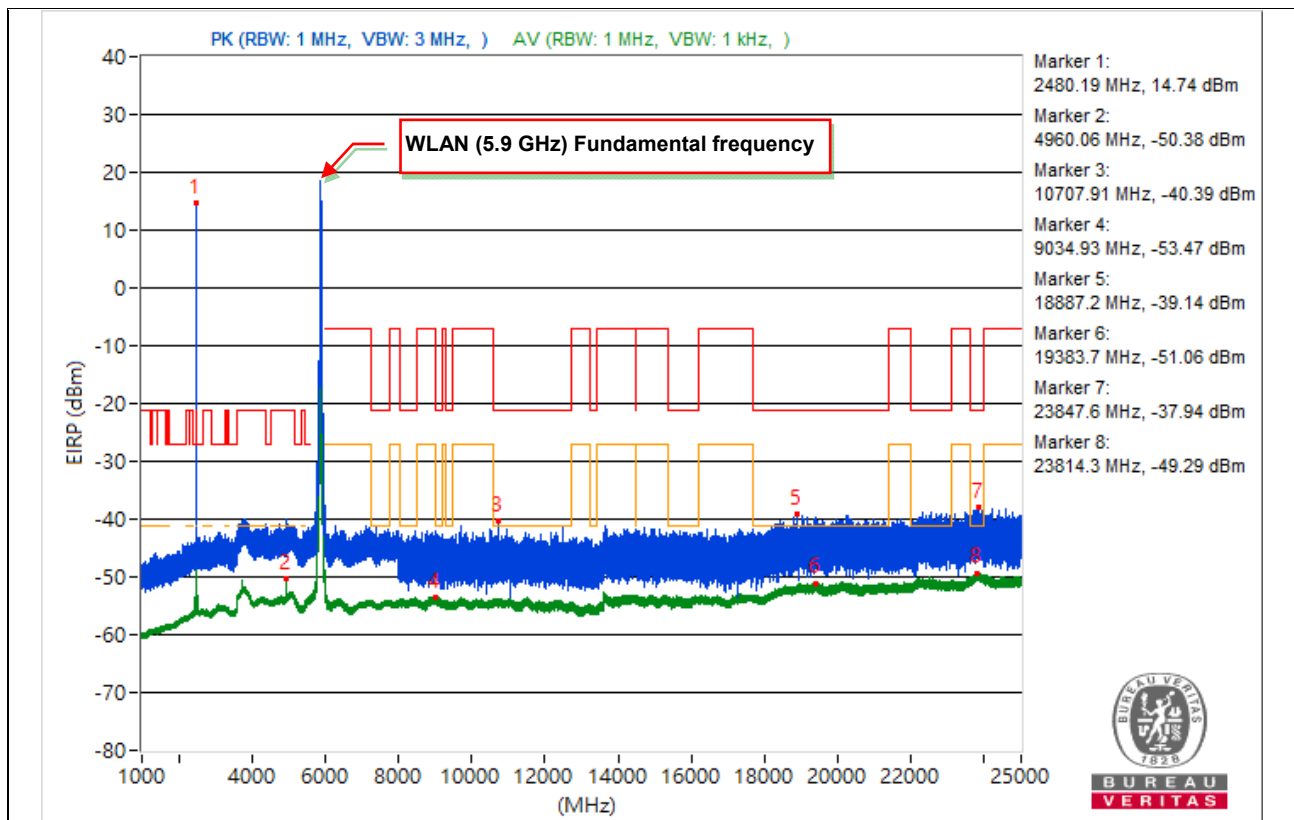
Conducted Unwanted Emissions

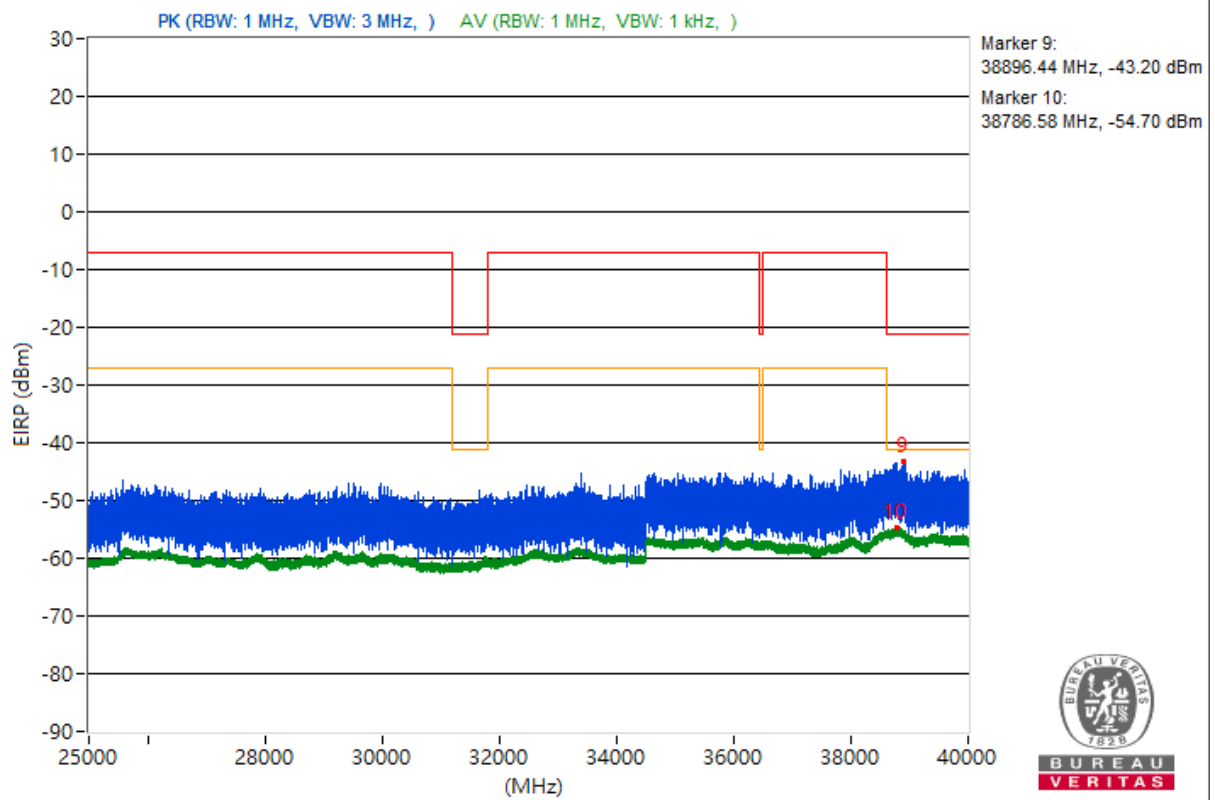
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.19	110 PK	-	-	9.82	4.92	14.74
2	4960.06	44.88 AV	54	-9.12	-55.3	4.92	-50.38
3	10707.91	54.87 PK	74	-19.13	-45.31	4.92	-40.39
4	9034.93	41.79 AV	54	-12.21	-58.39	4.92	-53.47
5	18887.2	56.12 PK	74	-17.88	-44.06	4.92	-39.14
6	19383.7	44.2 AV	54	-9.8	-55.98	4.92	-51.06
7	23847.6	57.32 PK	74	-16.68	-42.86	4.92	-37.94
8	23814.3	45.97 AV	54	-8.03	-54.21	4.92	-49.29
9	38896.44	52.06 PK	74	-21.94	-48.12	4.92	-43.2
10	38786.58	40.56 AV	54	-13.44	-59.62	4.92	-54.7

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

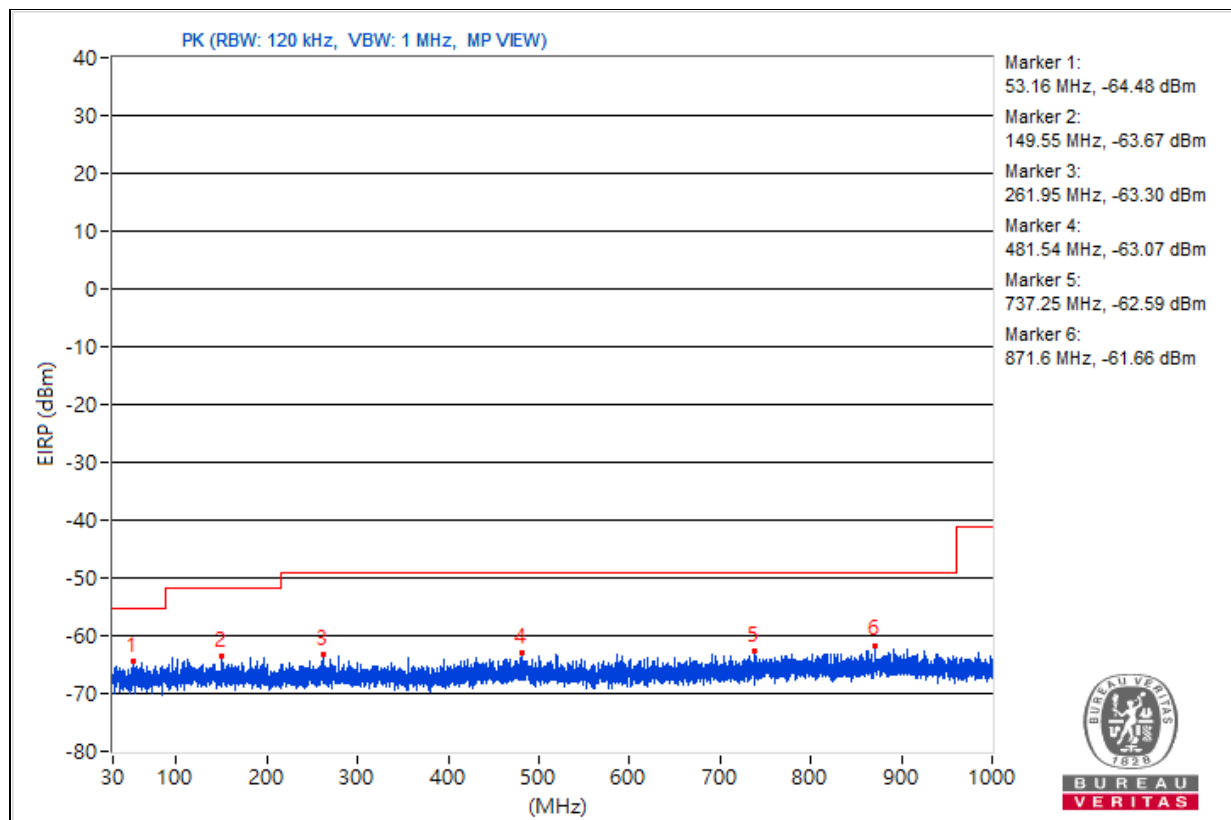
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
-----------------	----------------

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	53.16	30.78 PK	40	-9.22	-74.1	9.62	-64.48
2	149.55	31.59 PK	43.5	-11.91	-73.29	9.62	-63.67
3	261.95	31.96 PK	46	-14.04	-72.92	9.62	-63.3
4	481.54	32.19 PK	46	-13.81	-72.69	9.62	-63.07
5	737.25	32.67 PK	46	-13.33	-72.21	9.62	-62.59
6	871.6	33.6 PK	46	-12.4	-71.28	9.62	-61.66

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 3

Above 1GHz Data:

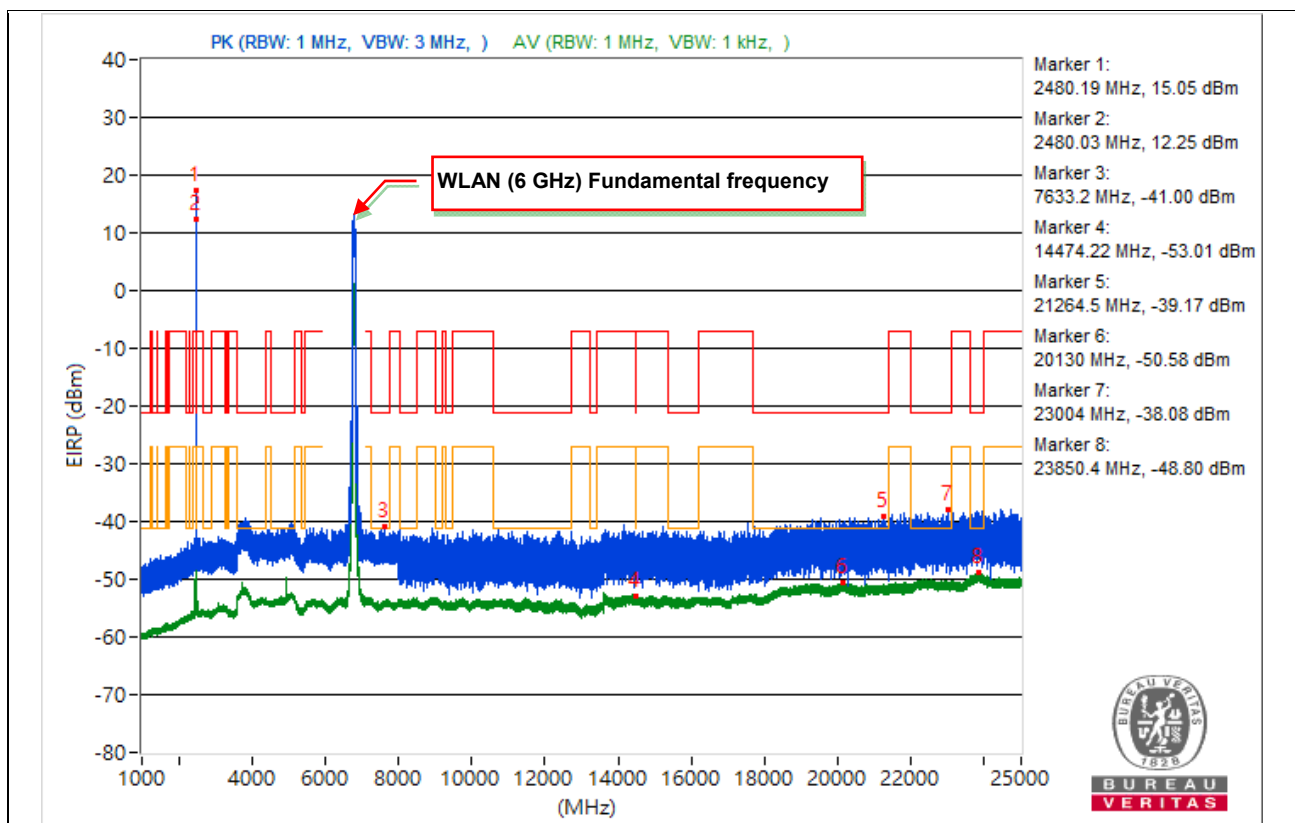
Conducted Unwanted Emissions

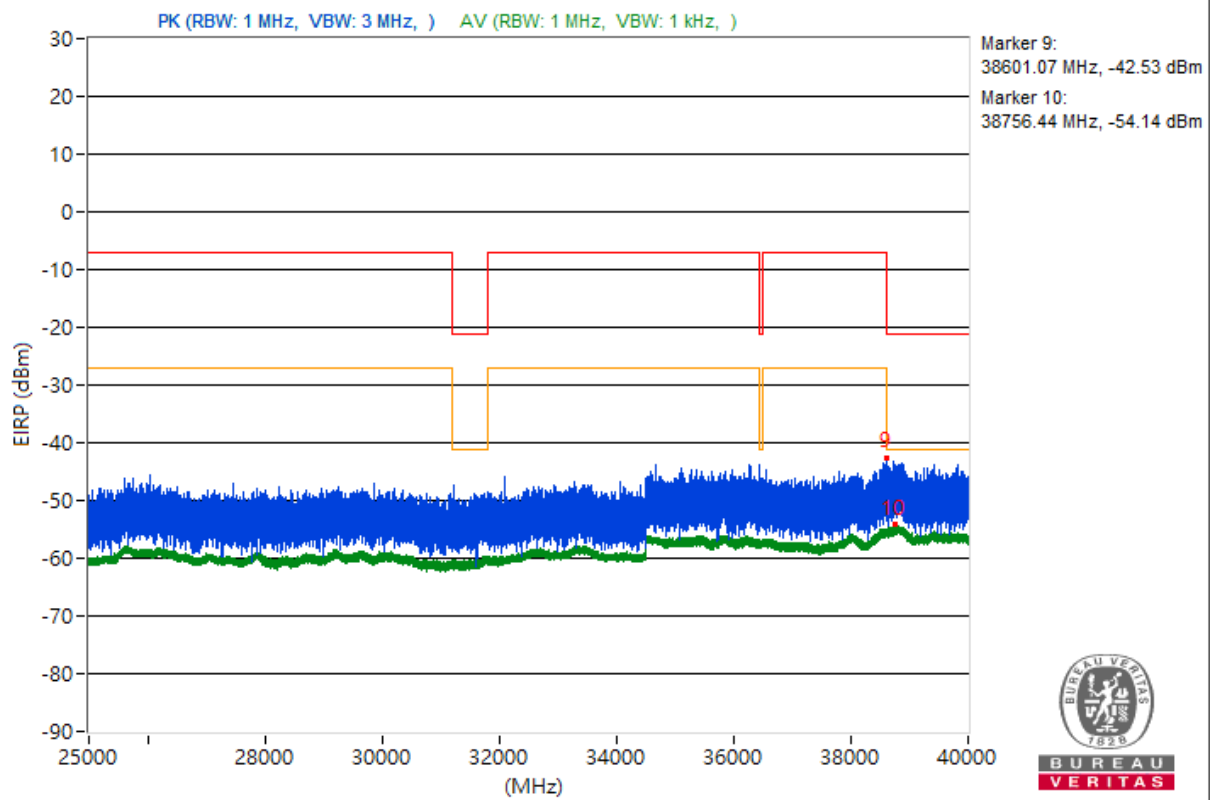
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2480.19	110.31 PK	-	-	10.13	4.92	15.05
2	*2480.03	107.51 AV	-	-	7.33	4.92	12.25
3	7633.2	54.26 PK	74	-19.74	-45.92	4.92	-41
4	14474.22	42.25 AV	54	-11.75	-57.93	4.92	-53.01
5	21264.5	56.09 PK	74	-17.91	-44.09	4.92	-39.17
6	20130	44.68 AV	54	-9.32	-55.5	4.92	-50.58
7	23004	57.18 PK	74	-16.82	-43	4.92	-38.08
8	23850.4	46.46 AV	54	-7.54	-53.72	4.92	-48.8
9	38601.07	52.73 PK	74	-21.27	-47.45	4.92	-42.53
10	38756.44	41.12 AV	54	-12.88	-59.06	4.92	-54.14

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

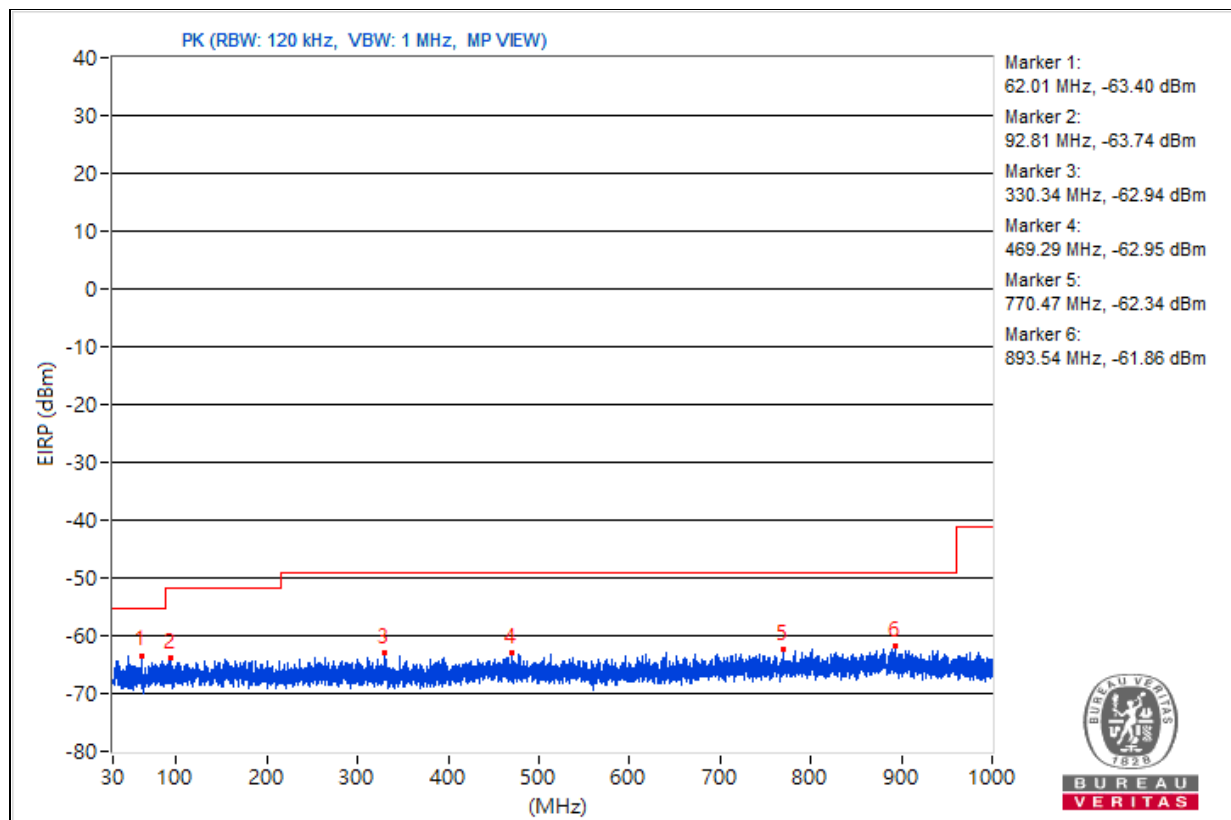
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
-----------------	----------------

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	62.01	31.86 PK	40	-8.14	-73.02	9.62	-63.4
2	92.81	31.52 PK	43.5	-11.98	-73.36	9.62	-63.74
3	330.34	32.32 PK	46	-13.68	-72.56	9.62	-62.94
4	469.29	32.31 PK	46	-13.69	-72.57	9.62	-62.95
5	770.47	32.92 PK	46	-13.08	-71.96	9.62	-62.34
6	893.54	33.4 PK	46	-12.6	-71.48	9.62	-61.86

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 4

Above 1GHz Data:

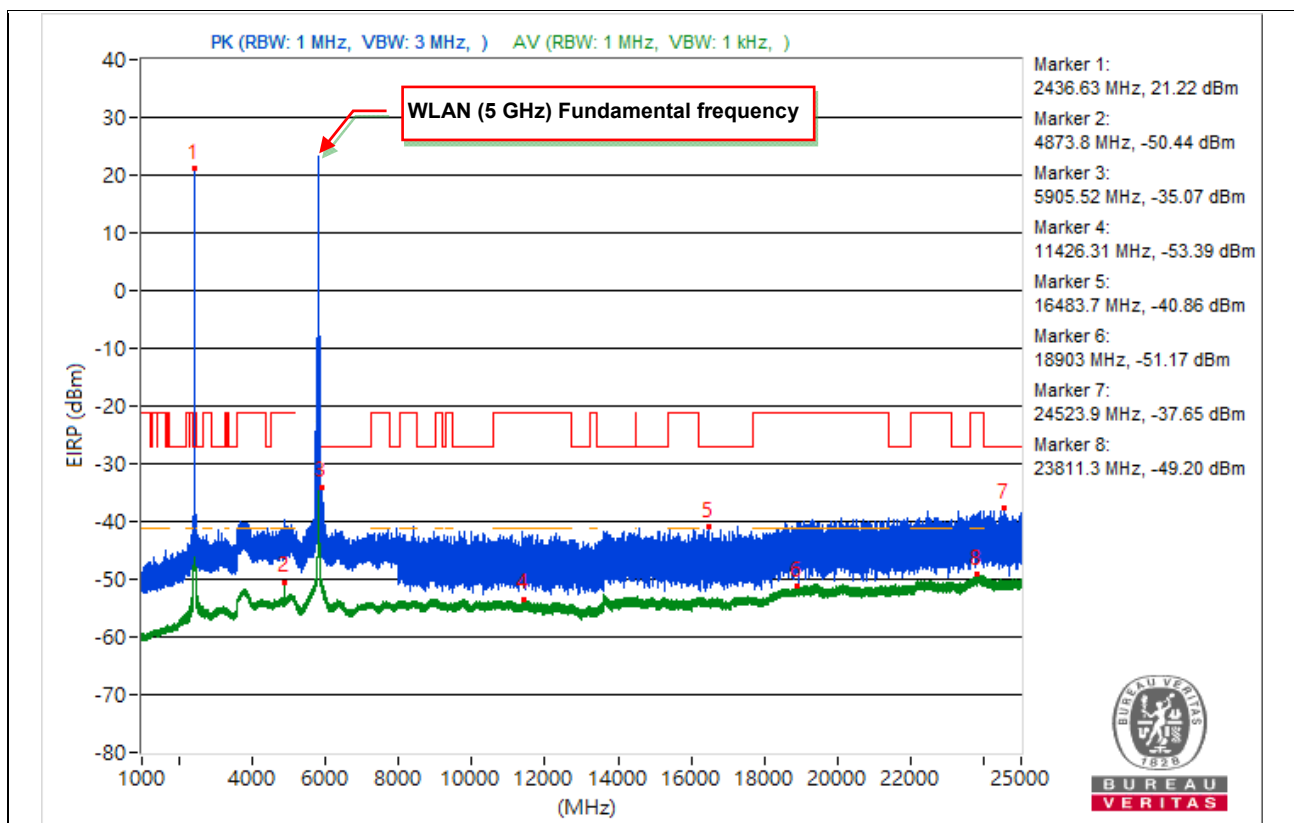
Conducted Unwanted Emissions

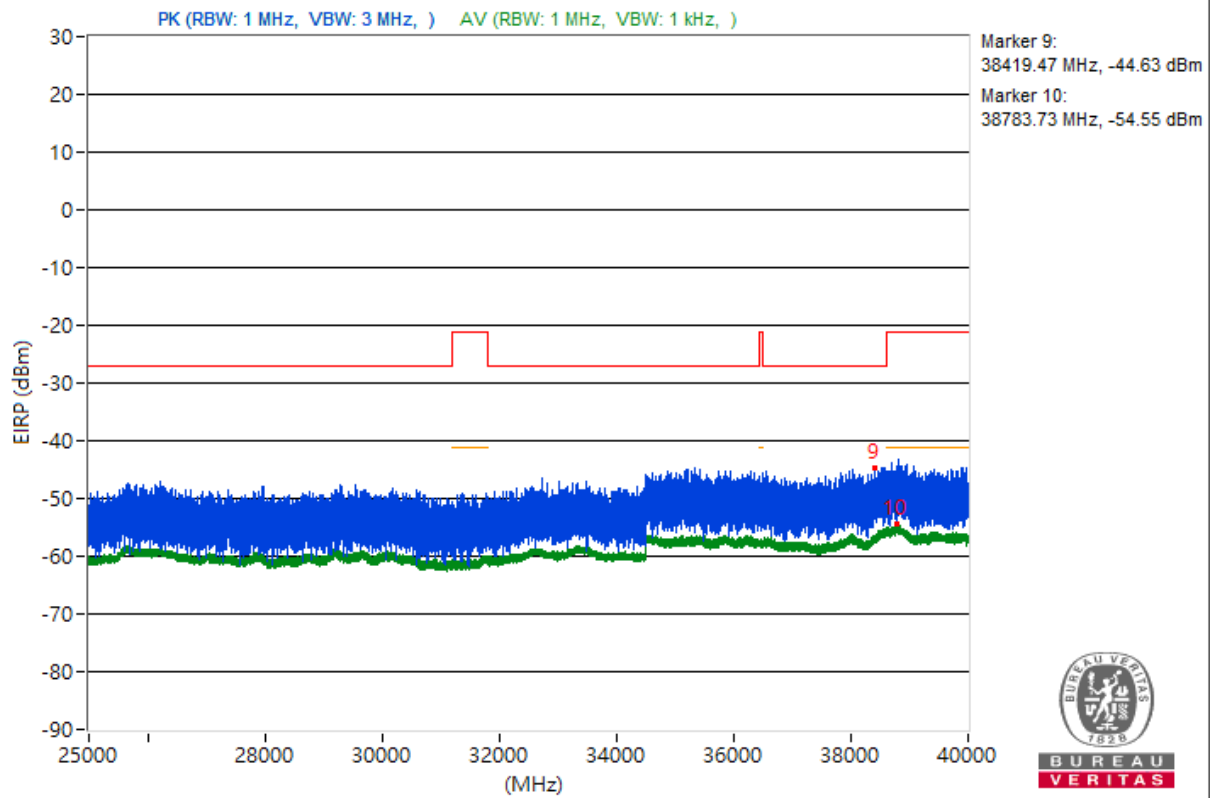
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2436.63	116.48 PK	-	-	16.3	4.92	21.22
2	4873.8	44.82 AV	54	-9.18	-55.36	4.92	-50.44
3	#5905.52	69.19 PK	68.26	-8.07	-39.99	4.92	-35.07
4	11426.31	41.87 AV	54	-12.13	-58.31	4.92	-53.39
5	#16483.7	54.4 PK	68.26	-13.86	-45.78	4.92	-40.86
6	18903	44.09 AV	54	-9.91	-56.09	4.92	-51.17
7	#24523.9	57.61 PK	68.26	-10.65	-42.57	4.92	-37.65
8	23811.3	46.06 AV	54	-7.94	-54.12	4.92	-49.2
9	#38419.47	50.63 PK	68.26	-17.63	-49.55	4.92	-44.63
10	38783.73	40.71 AV	54	-13.29	-59.47	4.92	-54.55

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

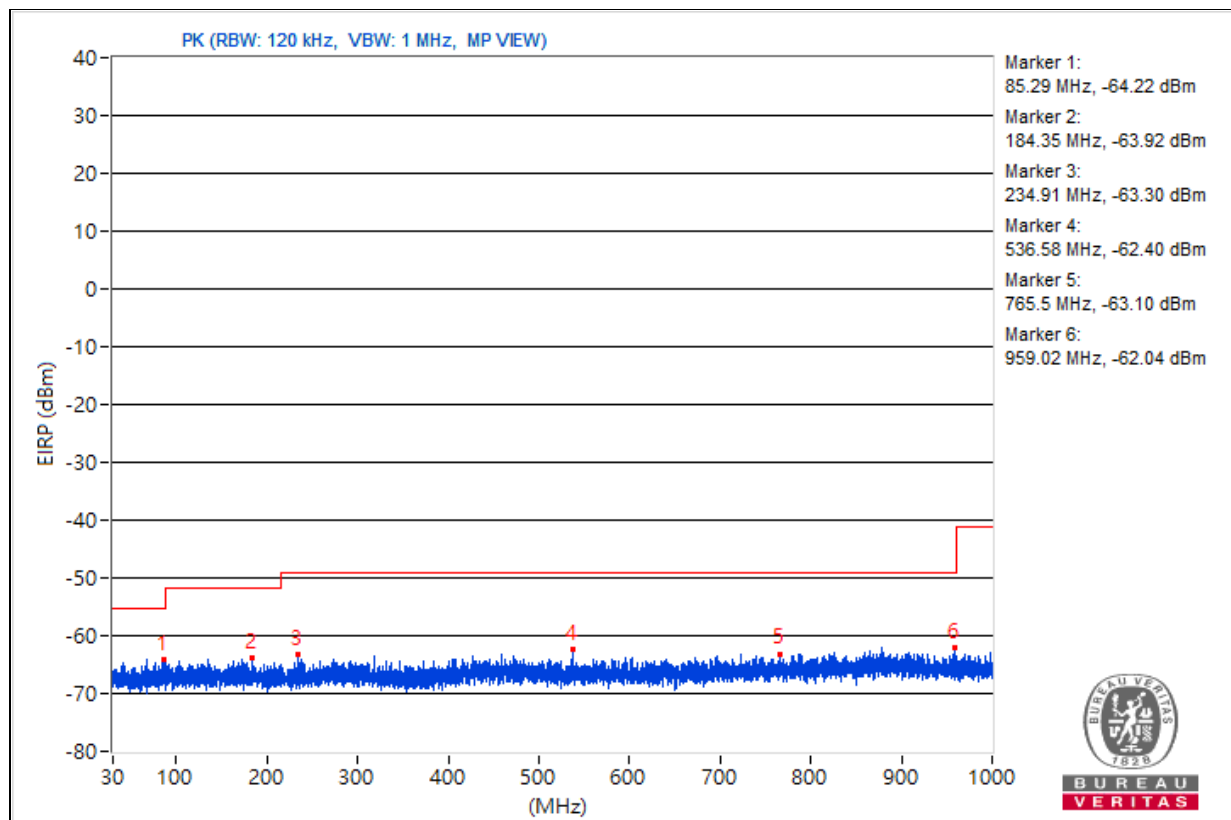
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
-----------------	----------------

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	85.29	31.04 PK	40	-8.96	-73.84	9.62	-64.22
2	184.35	31.34 PK	43.5	-12.16	-73.54	9.62	-63.92
3	234.91	31.96 PK	46	-14.04	-72.92	9.62	-63.3
4	536.58	32.86 PK	46	-13.14	-72.02	9.62	-62.4
5	765.5	32.16 PK	46	-13.84	-72.72	9.62	-63.1
6	959.02	33.22 PK	46	-12.78	-71.66	9.62	-62.04

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 5

Above 1GHz Data:

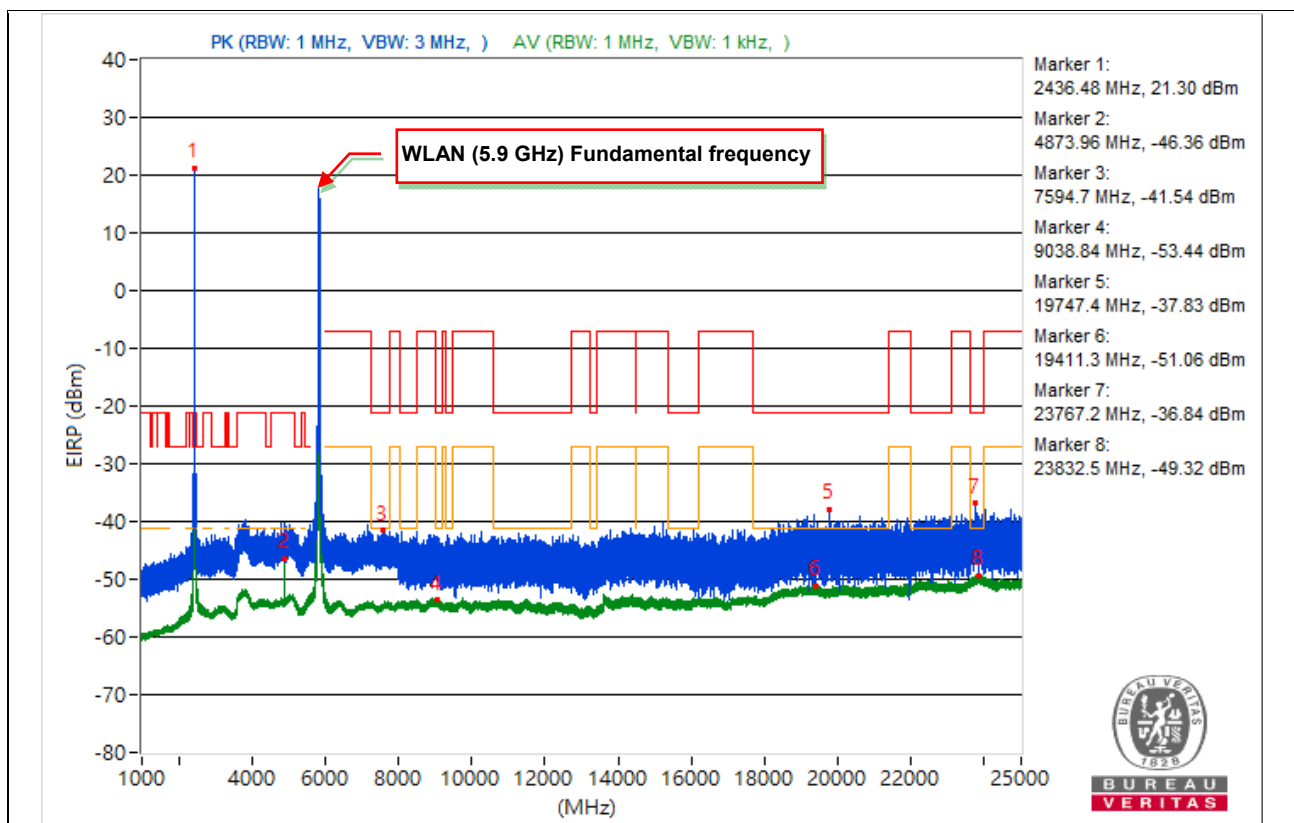
Conducted Unwanted Emissions

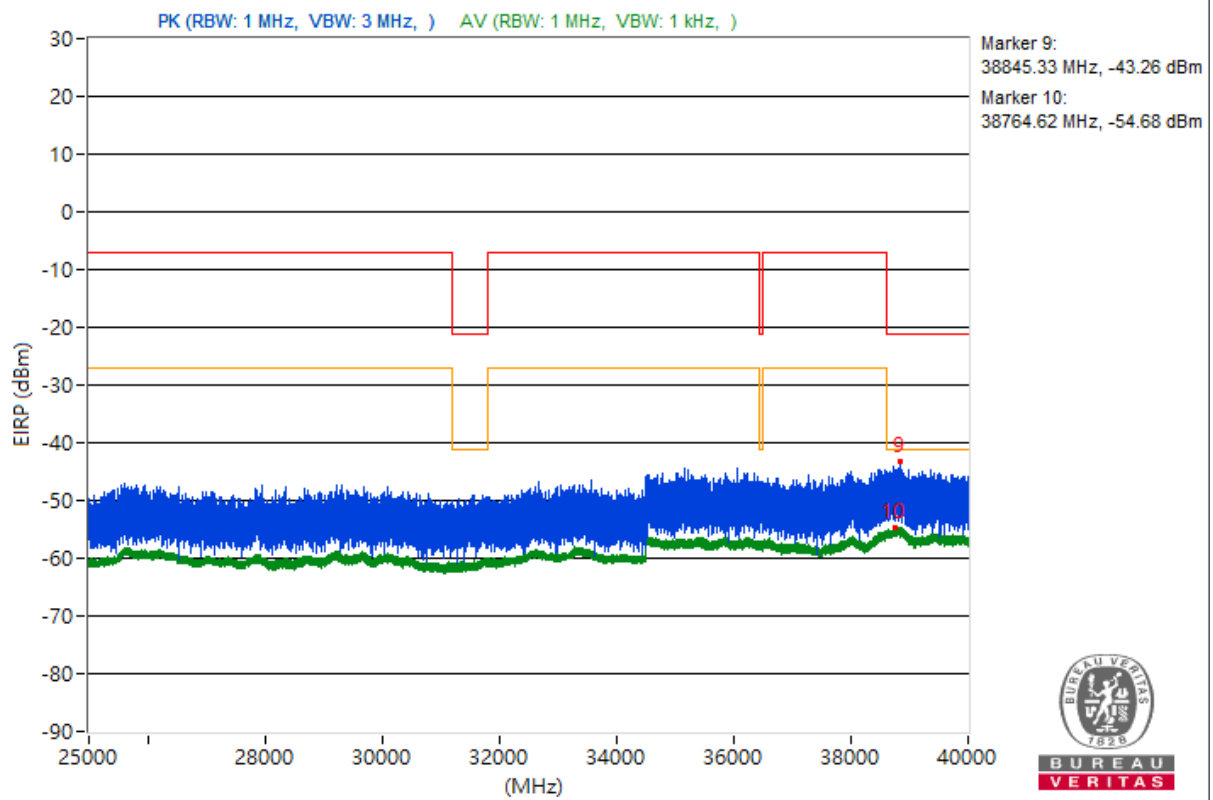
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2436.48	116.56 PK			16.38	4.92	21.3
2	4873.96	48.9 AV	54	-5.1	-51.28	4.92	-46.36
3	7594.7	53.72 PK	74	-20.28	-46.46	4.92	-41.54
4	9038.84	41.82 AV	54	-12.18	-58.36	4.92	-53.44
5	19747.4	57.43 PK	74	-16.57	-42.75	4.92	-37.83
6	19411.3	44.2 AV	54	-9.8	-55.98	4.92	-51.06
7	23767.2	58.42 PK	74	-15.58	-41.76	4.92	-36.84
8	23832.5	45.94 AV	54	-8.06	-54.24	4.92	-49.32
9	38845.33	52 PK	74	-22	-48.18	4.92	-43.26
10	38764.62	40.58 AV	54	-13.42	-59.6	4.92	-54.68

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

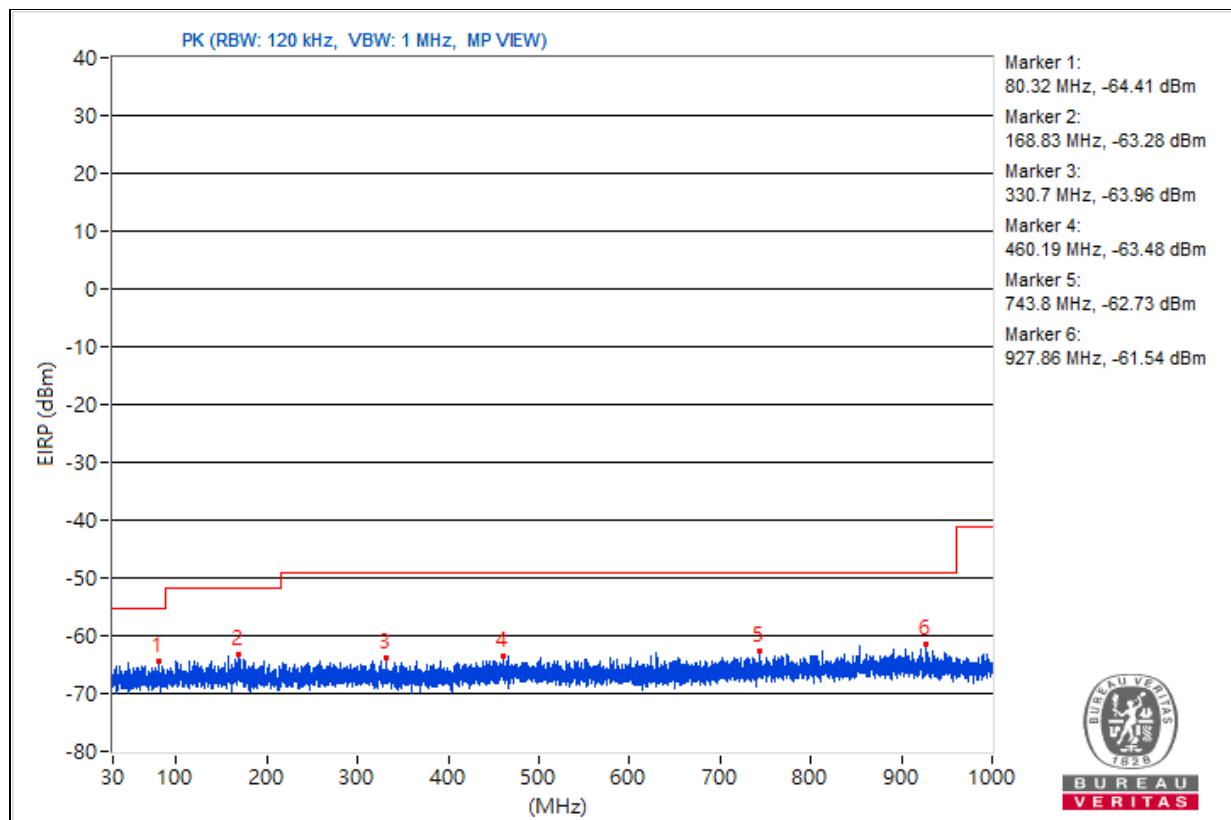
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
-----------------	----------------

Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	80.32	30.85 PK	40	-9.15	-74.03	9.62	-64.41
2	168.83	31.98 PK	43.5	-11.52	-72.9	9.62	-63.28
3	330.7	31.3 PK	46	-14.7	-73.58	9.62	-63.96
4	460.19	31.78 PK	46	-14.22	-73.1	9.62	-63.48
5	743.8	32.53 PK	46	-13.47	-72.35	9.62	-62.73
6	927.86	33.72 PK	46	-12.28	-71.16	9.62	-61.54

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 6

Above 1GHz Data:

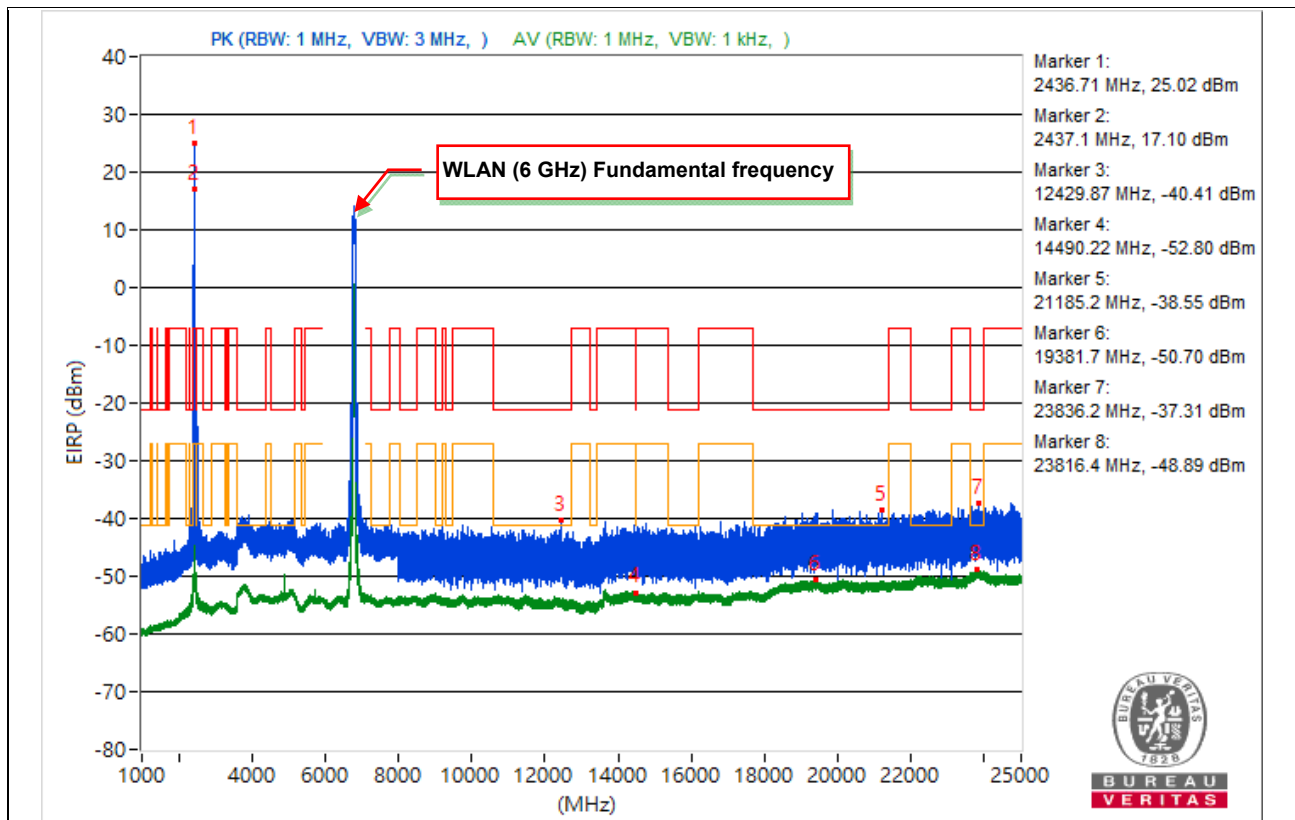
Conducted Unwanted Emissions

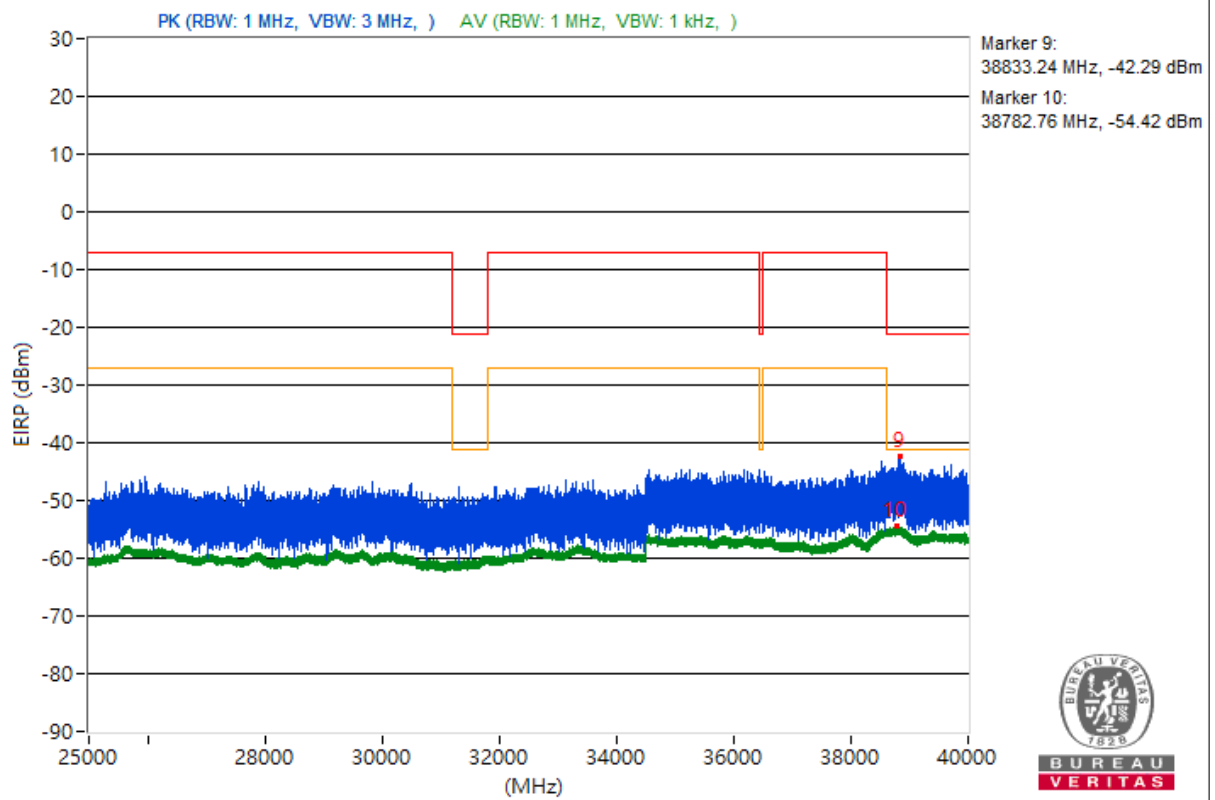
Frequency Range	1 GHz ~ 40 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	*2436.71	120.28 PK	-	-	20.1	4.92	25.02
2	*2437.1	112.36 AV	-	-	12.18	4.92	17.1
3	12429.87	54.85 PK	74	-19.15	-45.33	4.92	-40.41
4	14490.22	42.46 AV	54	-11.54	-57.72	4.92	-52.8
5	21185.2	56.71 PK	74	-17.29	-43.47	4.92	-38.55
6	19381.7	44.56 AV	54	-9.44	-55.62	4.92	-50.7
7	23836.2	57.95 PK	74	-16.05	-42.23	4.92	-37.31
8	23816.4	46.37 AV	54	-7.63	-53.81	4.92	-48.89
9	38833.24	52.97 PK	74	-21.03	-47.21	4.92	-42.29
10	38782.76	40.84 AV	54	-13.16	-59.34	4.92	-54.42

Notes:

1. Margin value = Emission Level - Limit value
2. " # ": The radiated frequency is out of the restricted band.
3. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.





Below 1GHz Data:

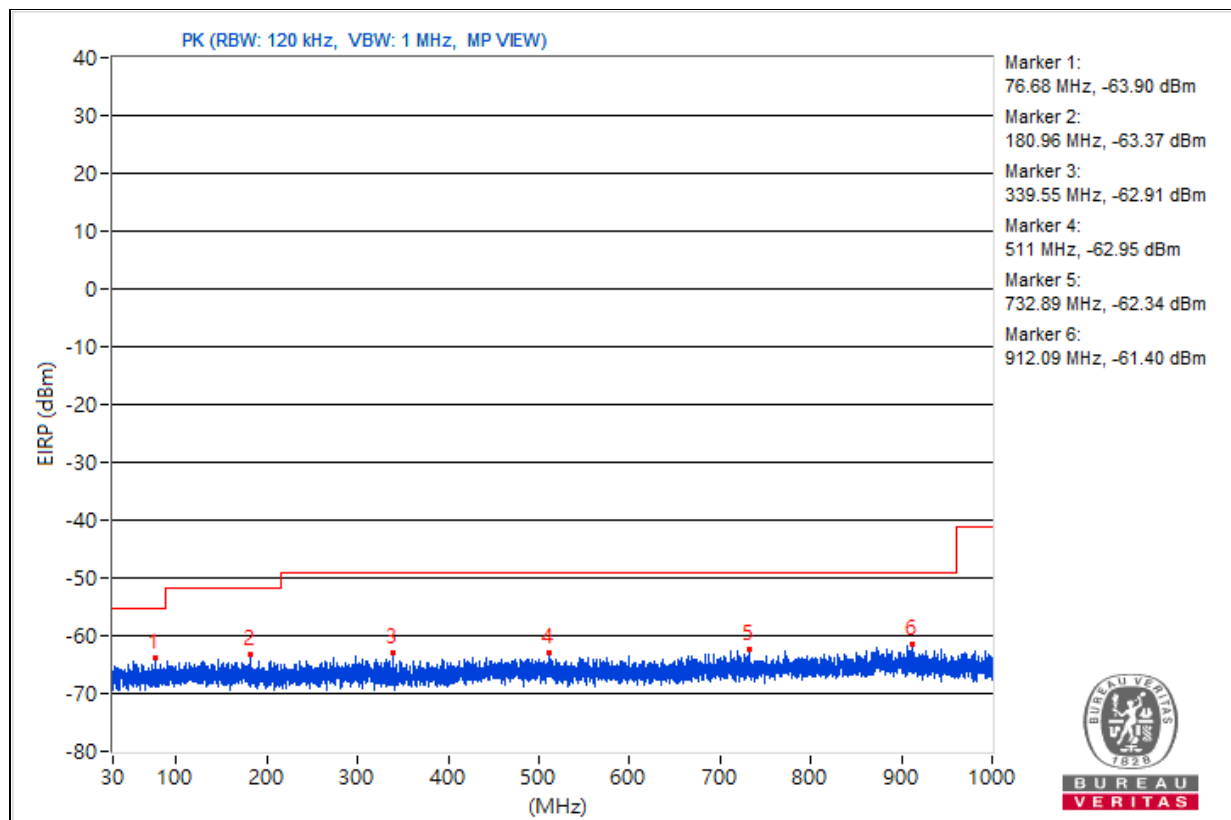
Conducted Unwanted Emissions

Frequency Range	30 MHz ~ 1 GHz
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Conducted Unwanted Emissions							
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value Chain 0 (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	76.68	31.36 PK	40	-8.64	-73.52	9.62	-63.9
2	180.96	31.89 PK	43.5	-11.61	-72.99	9.62	-63.37
3	339.55	32.35 PK	46	-13.65	-72.53	9.62	-62.91
4	511	32.31 PK	46	-13.69	-72.57	9.62	-62.95
5	732.89	32.92 PK	46	-13.08	-71.96	9.62	-62.34
6	912.09	33.86 PK	46	-12.14	-71.02	9.62	-61.4

Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



4.1.8 Test Results (Radiated Measurement)

For Mode 1

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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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	4960.00	41.1 PK	74.0	-32.9	1.39 H	221	36.3	4.8
2	4960.00	30.7 AV	54.0	-23.3	1.39 H	221	25.9	4.8
3	7440.00	46.2 PK	74.0	-27.8	1.14 H	119	34.3	11.9
4	7440.00	35.1 AV	54.0	-18.9	1.14 H	119	23.2	11.9
5	11650.00	48.3 PK	74.0	-25.7	3.46 H	31	31.6	16.7
6	11650.00	37.6 AV	54.0	-16.4	3.46 H	31	20.9	16.7
7	#17475.00	51.8 PK	68.2	-16.4	1.56 H	176	29.5	22.3
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	4960.00	41.2 PK	74.0	-32.8	2.37 V	49	36.4	4.8
2	4960.00	29.9 AV	54.0	-24.1	2.37 V	49	25.1	4.8
3	7440.00	45.9 PK	74.0	-28.1	3.55 V	25	34.0	11.9
4	7440.00	37.3 AV	54.0	-16.7	3.55 V	25	25.4	11.9
5	11650.00	48.5 PK	74.0	-25.5	2.27 V	228	31.8	16.7
6	11650.00	37.3 AV	54.0	-16.7	2.27 V	228	20.6	16.7
7	#17475.00	52.3 PK	68.2	-15.9	1.60 V	18	30.0	22.3

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. " # ": The radiated frequency is out of the restricted band.

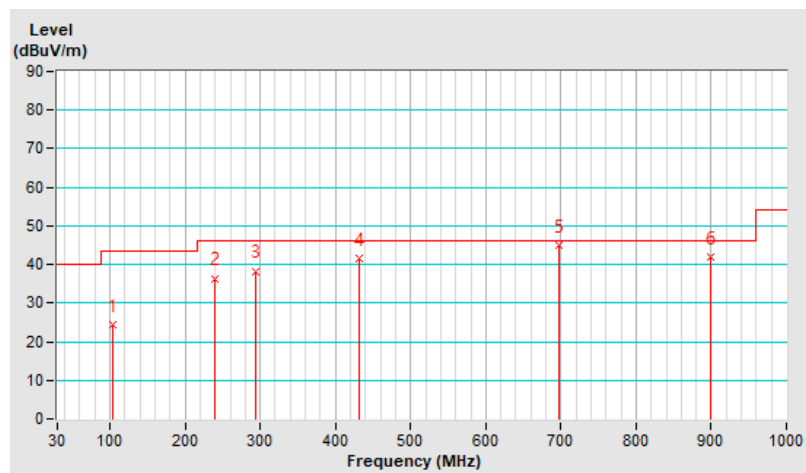
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	104.34	24.4 QP	43.5	-19.1	1.00 H	344	41.0	-16.6
2	239.75	36.4 QP	46.0	-9.6	1.50 H	237	51.1	-14.7
3	293.03	38.3 QP	46.0	-7.7	1.00 H	290	51.0	-12.7
4	431.97	41.6 QP	46.0	-4.4	2.00 H	326	50.4	-8.8
5	696.43	45.1 QP	46.0	-0.9	1.00 H	247	49.1	-4.0
6	899.08	41.8 QP	46.0	-4.2	1.00 H	267	43.0	-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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

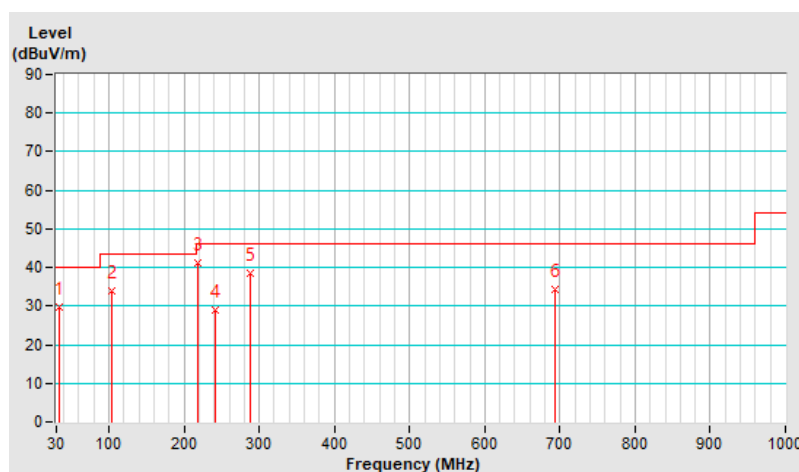


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.52	29.6 QP	40.0	-10.4	1.00 V	248	43.5	-13.9
2	103.04	34.0 QP	43.5	-9.5	1.50 V	344	50.9	-16.9
3	217.28	41.2 QP	46.0	-4.8	1.00 V	146	57.7	-16.5
4	240.97	29.0 QP	46.0	-17.0	1.00 V	30	43.6	-14.6
5	287.93	38.6 QP	46.0	-7.4	1.00 V	278	51.4	-12.8
6	693.43	34.2 QP	46.0	-11.8	2.00 V	44	38.2	-4.0

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 2

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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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	4960.00	42.4 PK	74.0	-31.6	1.44 H	242	37.6	4.8
2	4960.00	31.4 AV	54.0	-22.6	1.44 H	242	26.6	4.8
3	7440.00	45.9 PK	74.0	-28.1	1.16 H	133	34.0	11.9
4	7440.00	35.5 AV	54.0	-18.5	1.16 H	133	23.6	11.9
5	11750.00	49.4 PK	74.0	-24.6	3.28 H	40	33.0	16.4
6	11750.00	39.2 AV	54.0	-14.8	3.28 H	40	22.8	16.4
7	#17625.00	54.1 PK	88.2	-34.1	1.55 H	163	30.6	23.5
8	#17625.00	43.7 AV	68.2	-24.5	1.55 H	163	20.2	23.5
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	4960.00	41.7 PK	74.0	-32.3	2.17 V	61	36.9	4.8
2	4960.00	30.3 AV	54.0	-23.7	2.17 V	61	25.5	4.8
3	7440.00	45.4 PK	74.0	-28.6	3.51 V	21	33.5	11.9
4	7440.00	36.7 AV	54.0	-17.3	3.51 V	21	24.8	11.9
5	11750.00	48.5 PK	74.0	-25.5	1.97 V	135	32.1	16.4
6	11750.00	39.0 AV	54.0	-15.0	1.97 V	135	22.6	16.4
7	#17625.00	56.3 PK	88.2	-31.9	1.44 V	80	32.8	23.5
8	#17625.00	43.6 AV	68.2	-24.6	1.44 V	80	20.1	23.5

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.
5. " # ": The radiated frequency is out of the restricted band.

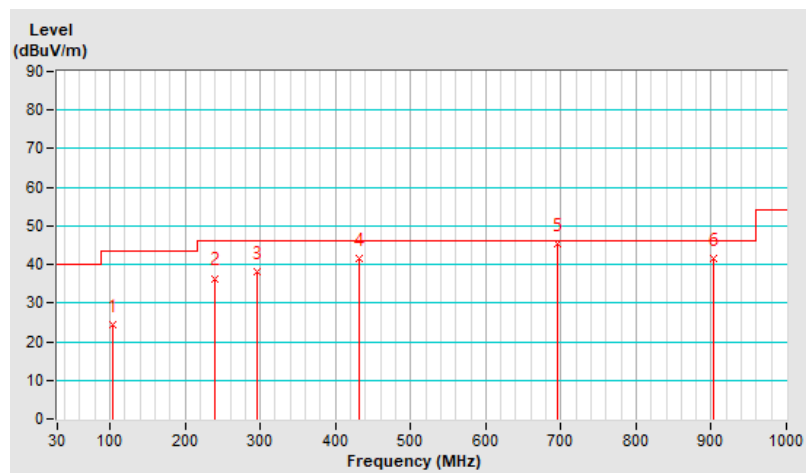
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	103.95	24.3 QP	43.5	-19.2	1.00 H	336	41.0	-16.7
2	239.32	36.4 QP	46.0	-9.6	1.50 H	246	51.1	-14.7
3	295.58	38.0 QP	46.0	-8.0	1.50 H	280	50.6	-12.6
4	431.63	41.7 QP	46.0	-4.3	3.00 H	320	50.6	-8.9
5	696.12	45.5 QP	46.0	-0.5	1.00 H	254	49.5	-4.0
6	903.59	41.7 QP	46.0	-4.3	2.00 H	277	42.8	-1.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

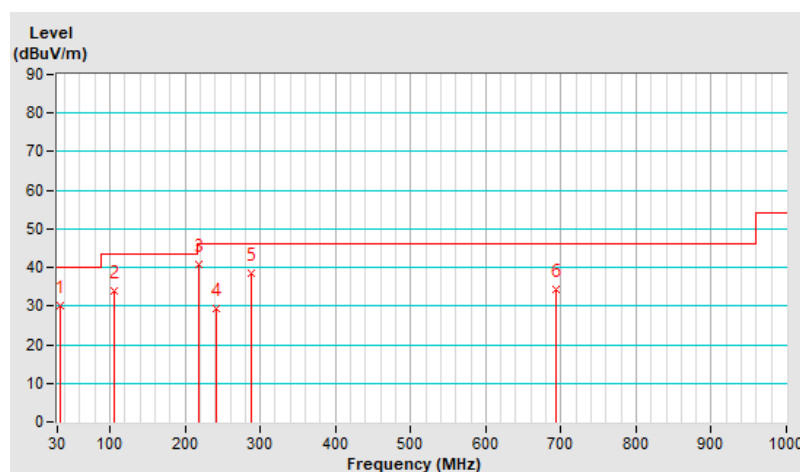


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.48	30.0 QP	40.0	-10.0	1.50 V	248	43.9	-13.9
2	105.18	33.8 QP	43.5	-9.7	1.00 V	336	50.3	-16.5
3	217.26	40.7 QP	46.0	-5.3	3.00 V	161	57.2	-16.5
4	242.21	29.4 QP	46.0	-16.6	1.00 V	22	44.0	-14.6
5	287.61	38.4 QP	46.0	-7.6	1.00 V	291	51.2	-12.8
6	693.66	34.3 QP	46.0	-11.7	1.50 V	56	38.3	-4.0

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 3

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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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	4960.00	42.6 PK	74.0	-31.4	1.49 H	234	37.8	4.8
2	4960.00	32.0 AV	54.0	-22.0	1.49 H	234	27.2	4.8
3	7440.00	46.0 PK	74.0	-28.0	1.21 H	131	34.1	11.9
4	7440.00	34.9 AV	54.0	-19.1	1.21 H	131	23.0	11.9
5	#13570.00	48.9 PK	88.2	-39.3	2.94 H	58	30.3	18.6
6	#13570.00	36.9 AV	68.2	-31.3	2.94 H	58	18.3	18.6
7	20355.00	53.8 PK	74.0	-20.2	1.68 H	211	56.2	-2.4
8	20355.00	42.7 AV	54.0	-11.3	1.68 H	211	45.1	-2.4
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	4960.00	40.4 PK	74.0	-33.6	2.24 V	70	35.6	4.8
2	4960.00	29.8 AV	54.0	-24.2	2.24 V	70	25.0	4.8
3	7440.00	46.3 PK	74.0	-27.7	3.57 V	35	34.4	11.9
4	7440.00	37.0 AV	54.0	-17.0	3.57 V	35	25.1	11.9
5	#13570.00	48.1 PK	88.2	-40.1	1.80 V	227	29.5	18.6
6	#13570.00	37.1 AV	68.2	-31.1	1.80 V	227	18.5	18.6
7	20355.00	54.4 PK	74.0	-19.6	1.66 V	78	56.8	-2.4
8	20355.00	43.0 AV	54.0	-11.0	1.66 V	78	45.4	-2.4

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.
5. " # ": The radiated frequency is out of the restricted band.

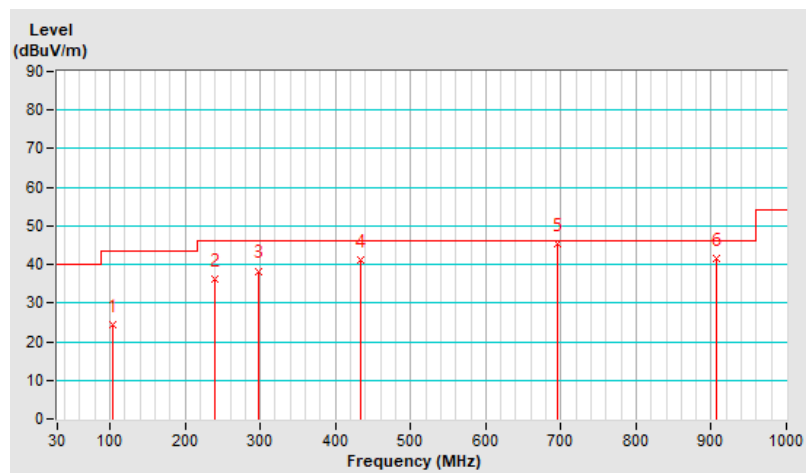
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	103.94	24.3 QP	43.5	-19.2	1.50 H	331	41.0	-16.7
2	239.41	36.1 QP	46.0	-9.9	1.00 H	223	50.8	-14.7
3	297.91	38.3 QP	46.0	-7.7	2.00 H	305	50.9	-12.6
4	432.66	41.3 QP	46.0	-4.7	1.50 H	336	50.1	-8.8
5	695.96	45.2 QP	46.0	-0.8	2.00 H	234	49.2	-4.0
6	906.38	41.5 QP	46.0	-4.5	3.00 H	270	42.5	-1.0

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

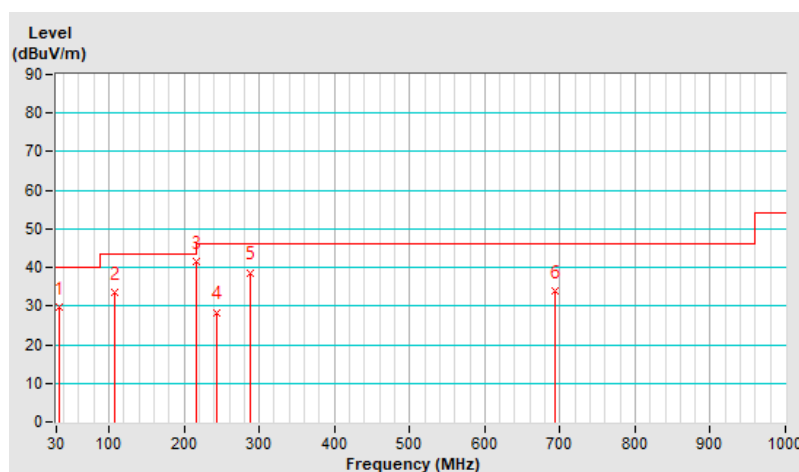


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.34	29.6 QP	40.0	-10.4	1.50 V	260	43.5	-13.9
2	107.17	33.7 QP	43.5	-9.8	1.00 V	360	49.9	-16.2
3	217.01	41.4 QP	46.0	-4.6	2.00 V	131	57.9	-16.5
4	242.59	28.4 QP	46.0	-17.6	1.50 V	29	43.0	-14.6
5	287.43	38.7 QP	46.0	-7.3	3.00 V	285	51.5	-12.8
6	693.41	33.8 QP	46.0	-12.2	1.00 V	45	37.8	-4.0

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 4

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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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	4874.00	41.5 PK	74.0	-32.5	1.47 H	281	37.0	4.5
2	4874.00	36.6 AV	54.0	-17.4	1.47 H	281	32.1	4.5
3	7311.00	45.3 PK	74.0	-28.7	1.08 H	334	33.8	11.5
4	7311.00	36.4 AV	54.0	-17.6	1.08 H	334	24.9	11.5
5	11650.00	49.9 PK	74.0	-24.1	3.45 H	43	33.2	16.7
6	11650.00	38.5 AV	54.0	-15.5	3.45 H	43	21.8	16.7
7	#17475.00	50.7 PK	68.2	-17.5	1.50 H	138	28.4	22.3
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	4874.00	41.5 PK	74.0	-32.5	1.01 V	210	37.0	4.5
2	4874.00	37.0 AV	54.0	-17.0	1.01 V	210	32.5	4.5
3	7311.00	46.2 PK	74.0	-27.8	2.14 V	198	34.7	11.5
4	7311.00	38.9 AV	54.0	-15.1	2.14 V	198	27.4	11.5
5	11650.00	50.5 PK	74.0	-23.5	2.06 V	207	33.8	16.7
6	11650.00	41.5 AV	54.0	-12.5	2.06 V	207	24.8	16.7
7	#17475.00	51.8 PK	68.2	-16.4	1.69 V	2	29.5	22.3

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. " # ": The radiated frequency is out of the restricted band.

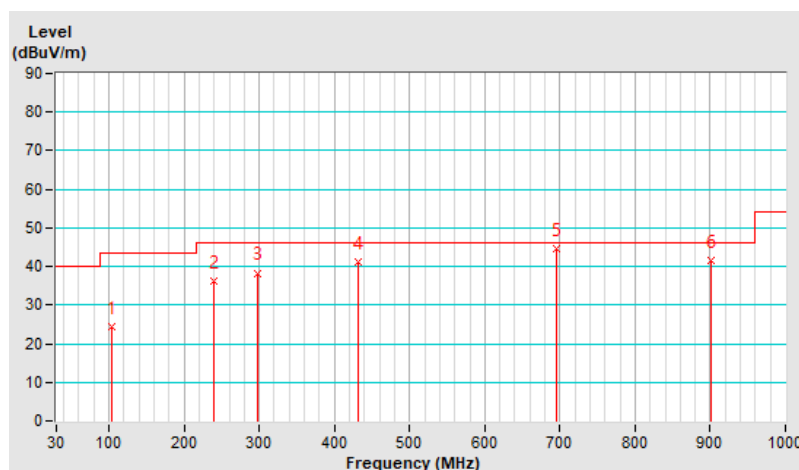
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	103.86	24.4 QP	43.5	-19.1	1.50 H	345	41.1	-16.7
2	239.41	36.2 QP	46.0	-9.8	1.50 H	226	50.9	-14.7
3	297.27	38.3 QP	46.0	-7.7	2.00 H	285	50.9	-12.6
4	431.66	41.2 QP	46.0	-4.8	1.00 H	320	50.1	-8.9
5	696.36	44.6 QP	46.0	-1.4	1.00 H	237	48.6	-4.0
6	900.87	41.7 QP	46.0	-4.3	1.00 H	265	42.8	-1.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

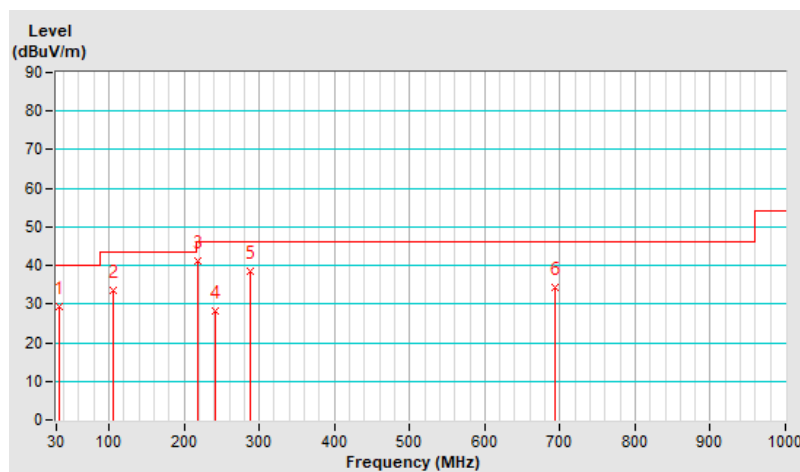


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.78	29.3 QP	40.0	-10.7	3.00 V	256	43.1	-13.8
2	105.83	33.6 QP	43.5	-9.9	1.50 V	355	50.1	-16.5
3	218.09	41.2 QP	46.0	-4.8	1.00 V	148	57.8	-16.6
4	241.11	28.3 QP	46.0	-17.7	3.00 V	23	42.9	-14.6
5	287.64	38.4 QP	46.0	-7.6	1.50 V	285	51.2	-12.8
6	693.36	34.3 QP	46.0	-11.7	1.50 V	54	38.3	-4.0

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 5

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=300 Hz, DET=Peak
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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	4874.00	42.5 PK	74.0	-31.5	1.55 H	289	38.0	4.5
2	4874.00	37.4 AV	54.0	-16.6	1.55 H	289	32.9	4.5
3	7311.00	46.6 PK	74.0	-27.4	1.21 H	337	35.1	11.5
4	7311.00	37.8 AV	54.0	-16.2	1.21 H	337	26.3	11.5
5	11670.00	48.3 PK	74.0	-25.7	3.25 H	34	31.6	16.7
6	11670.00	38.2 AV	54.0	-15.8	3.25 H	34	21.5	16.7
7	#17505.00	54.4 PK	88.2	-33.8	1.51 H	213	32.0	22.4
8	#17505.00	43.6 AV	68.2	-24.6	1.51 H	213	21.2	22.4
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	4874.00	41.9 PK	74.0	-32.1	1.00 V	230	37.4	4.5
2	4874.00	37.2 AV	54.0	-16.8	1.00 V	230	32.7	4.5
3	7311.00	47.2 PK	74.0	-26.8	2.09 V	216	35.7	11.5
4	7311.00	39.6 AV	54.0	-14.4	2.09 V	216	28.1	11.5
5	11670.00	48.6 PK	74.0	-25.4	2.02 V	182	31.9	16.7
6	11670.00	38.7 AV	54.0	-15.3	2.02 V	182	22.0	16.7
7	#17505.00	55.7 PK	88.2	-32.5	1.54 V	53	33.3	22.4
8	#17505.00	43.4 AV	68.2	-24.8	1.54 V	53	21.0	22.4

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.
5. " # ": The radiated frequency is out of the restricted band.

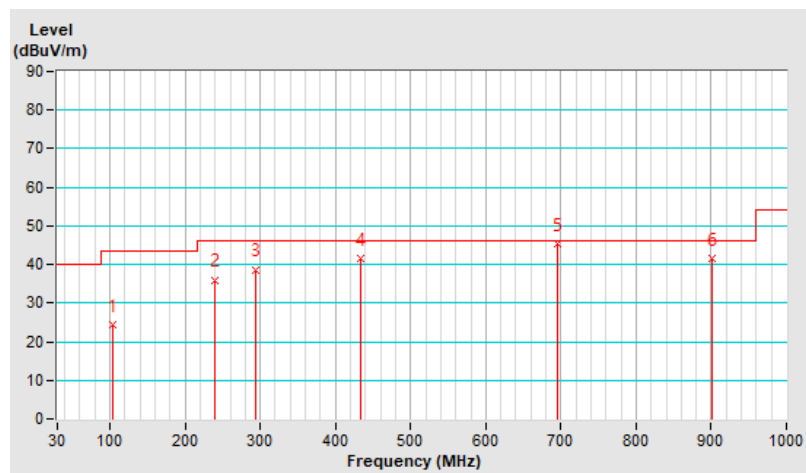
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	104.19	24.5 QP	43.5	-19.0	3.00 H	350	41.1	-16.6
2	239.31	36.0 QP	46.0	-10.0	3.00 H	243	50.7	-14.7
3	293.62	38.7 QP	46.0	-7.3	1.00 H	286	51.4	-12.7
4	432.92	41.5 QP	46.0	-4.5	1.50 H	331	50.3	-8.8
5	696.14	45.5 QP	46.0	-0.5	2.00 H	256	49.5	-4.0
6	901.71	41.6 QP	46.0	-4.4	1.00 H	279	42.7	-1.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

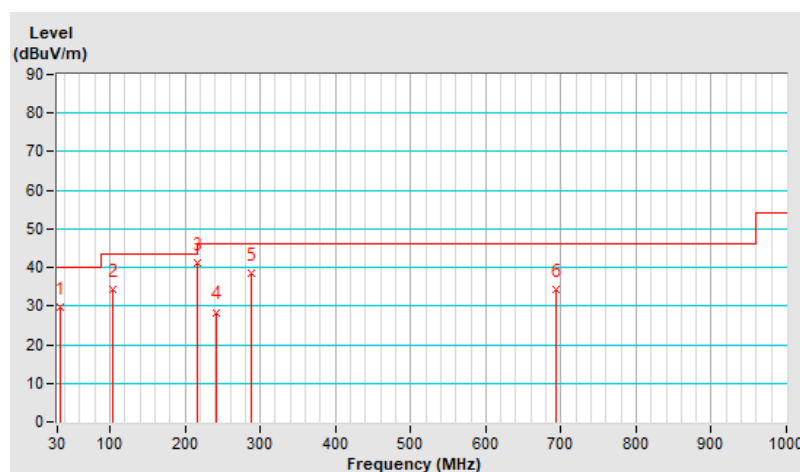


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.25	29.7 QP	40.0	-10.3	1.00 V	235	43.5	-13.8
2	103.36	34.3 QP	43.5	-9.2	2.00 V	358	51.1	-16.8
3	216.80	41.3 QP	46.0	-4.7	3.00 V	132	57.8	-16.5
4	240.90	28.4 QP	46.0	-17.6	1.00 V	35	43.0	-14.6
5	287.72	38.5 QP	46.0	-7.5	2.00 V	270	51.3	-12.8
6	693.20	34.4 QP	46.0	-11.6	3.00 V	58	38.5	-4.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



For Mode 6

Above 1GHz Data:

Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=510 Hz, DET=Peak
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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	4874.00	41.7 PK	74.0	-32.3	1.55 H	271	37.2	4.5
2	4874.00	36.5 AV	54.0	-17.5	1.55 H	271	32.0	4.5
3	7311.00	45.2 PK	74.0	-28.8	1.17 H	324	33.7	11.5
4	7311.00	36.7 AV	54.0	-17.3	1.17 H	324	25.2	11.5
5	#13570.00	47.7 PK	88.2	-40.5	2.93 H	37	29.1	18.6
6	#13570.00	37.6 AV	68.2	-30.6	2.93 H	37	19.0	18.6
7	20355.00	53.1 PK	74.0	-20.9	1.76 H	170	55.5	-2.4
8	20355.00	42.2 AV	54.0	-11.8	1.76 H	170	44.6	-2.4
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	4874.00	41.9 PK	74.0	-32.1	1.00 V	223	37.4	4.5
2	4874.00	37.5 AV	54.0	-16.5	1.00 V	223	33.0	4.5
3	7311.00	45.6 PK	74.0	-28.4	2.19 V	235	34.1	11.5
4	7311.00	38.7 AV	54.0	-15.3	2.19 V	235	27.2	11.5
5	#13570.00	49.1 PK	88.2	-39.1	2.02 V	190	30.5	18.6
6	#13570.00	38.5 AV	68.2	-29.7	2.02 V	190	19.9	18.6
7	20355.00	51.8 PK	74.0	-22.2	1.58 V	81	54.2	-2.4
8	20355.00	41.8 AV	54.0	-12.2	1.58 V	81	44.2	-2.4

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.
5. " # ": The radiated frequency is out of the restricted band.

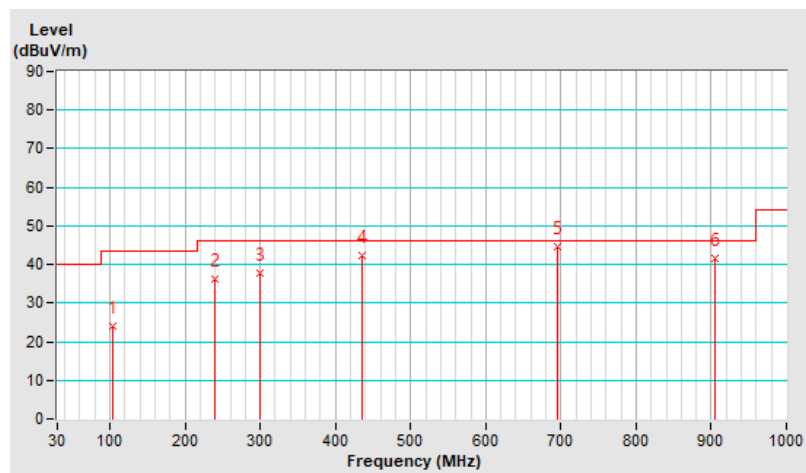
Below 1GHz Data:

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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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	104.30	24.1 QP	43.5	-19.4	2.00 H	337	40.7	-16.6
2	239.40	36.3 QP	46.0	-9.7	1.00 H	224	51.0	-14.7
3	298.78	37.7 QP	46.0	-8.3	1.50 H	300	50.2	-12.5
4	436.18	42.3 QP	46.0	-3.7	3.00 H	316	51.0	-8.7
5	696.07	44.6 QP	46.0	-1.4	1.00 H	257	48.6	-4.0
6	905.06	41.4 QP	46.0	-4.6	1.00 H	270	42.5	-1.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

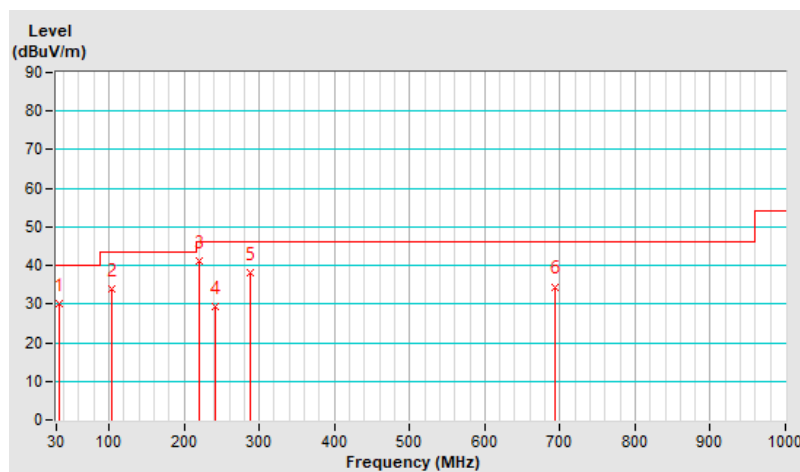


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.42	30.0 QP	40.0	-10.0	1.50 V	263	43.8	-13.8
2	103.66	34.0 QP	43.5	-9.5	1.00 V	346	50.7	-16.7
3	219.25	41.2 QP	46.0	-4.8	1.50 V	131	57.8	-16.6
4	241.87	29.3 QP	46.0	-16.7	1.00 V	41	43.9	-14.6
5	287.83	38.2 QP	46.0	-7.8	3.00 V	267	51.0	-12.8
6	693.01	34.5 QP	46.0	-11.5	2.00 V	29	38.6	-4.1

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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

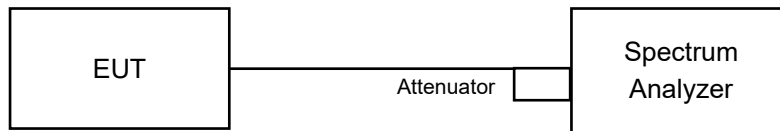


4.2 Conducted Out of Band Emission Measurement

4.2.1 Limits of Conducted Out of Band Emission Measurement

Below 30 dB 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 Procedures

MEASUREMENT PROCEDURE REF

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

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. 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 Conditions

The software provided by client to enable the EUT under transmission condition continuously at **specific** channel frequencies individually.

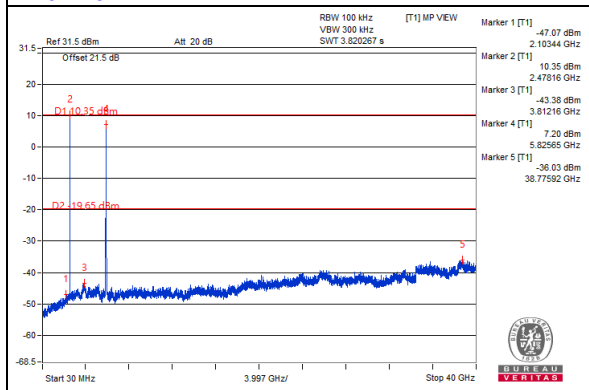
4.2.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30 dB offset below D1. It shows compliance with the requirement.

For Mode 1

5GHz_802.11be (EHT20) CH165 + BT-LE 125k CH39

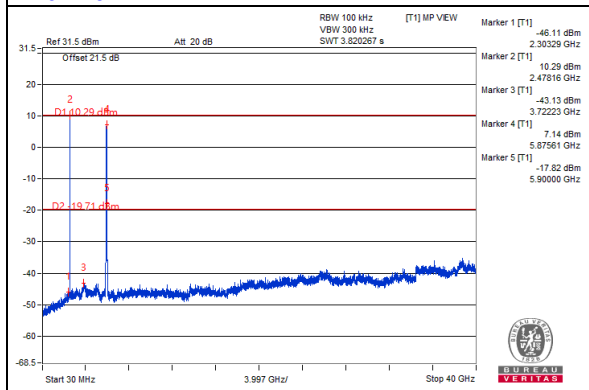
Chain 0



For Mode 2

5.9GHz_802.11be (EHT40) CH175 + BT-LE 125k CH39

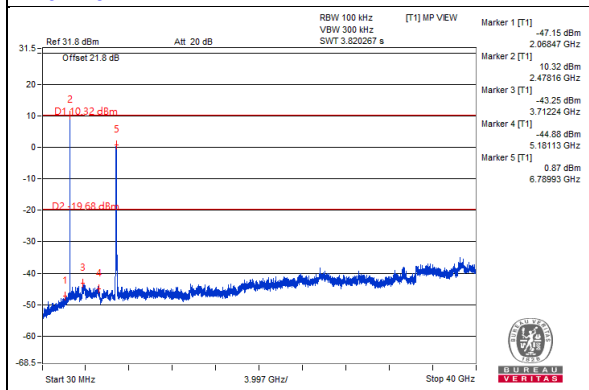
Chain 0



For Mode 3

6GHz_802.11be (EHT80) CH167 + BT-LE 125k CH39

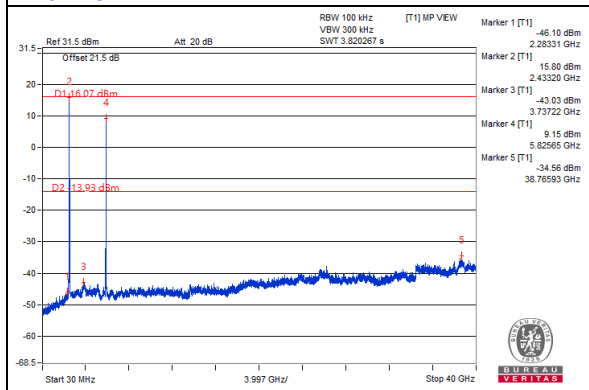
Chain 0



For Mode 4

2.4GHz_802.11b CH6 + 5GHz_802.11be (EHT20) CH165

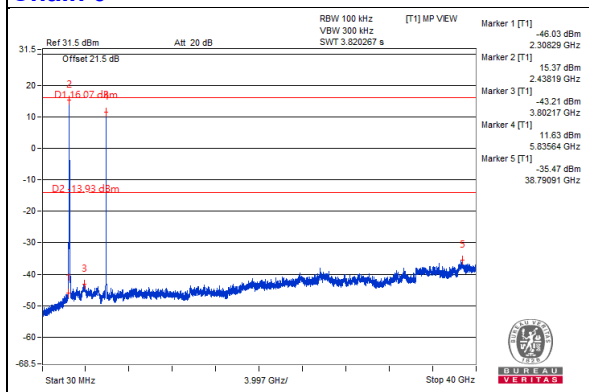
Chain 0



For Mode 5

2.4GHz_802.11b CH6 + 5.9GHz_802.11be (EHT40) CH167

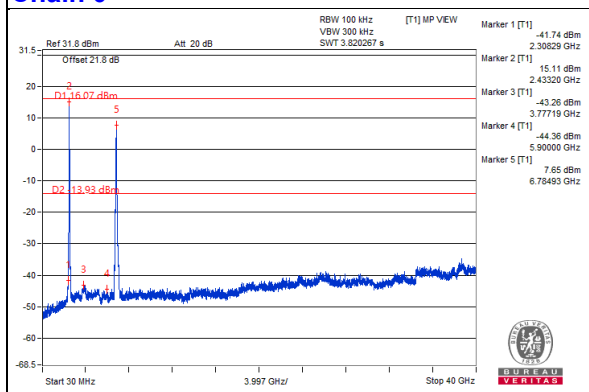
Chain 0



For Mode 6

2.4GHz_802.11b CH6 + 6GHz_802.11be (EHT80) CH167

Chain 0



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 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@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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