

Supplemental "Transmit Simultaneously" Test Report

Report No.: RFBARR-WTW-P21030485D-1

FCC ID: RAS-MT7922A22M

Test Model: MT7922A22M

Received Date: 2021/10/18

Test Date: 2021/11/16 ~ 2021/12/6

Issued Date: 2021/12/20

Applicant: MediaTek Inc.

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

Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan

FCC Registration / Designation Number:

723255 / TW2022





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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21030485D-1	Original release.	2021/12/20

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1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A22M

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2021/11/16 ~ 2021/12/6

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.

Phoenix Huang / Specialist

Approved by: , Date: 2021/12/20

Clark Lin / Technical Manager



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C, E (SECTION 15.247, 15.407)							
FCC Clause	Remarks						
15.207 15.407(b)(8)	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -12.19 dB at 0.15000 MHz.				
15.205 / 15.209 / 15.247(d) 15.407(b) (1/2/3/4(i/ii)/8)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -3.0 dB at 198.26 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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Conducted emissions	-	2.5 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
Radiated Effissions up to 1 GHz	30MHz ~ 1GHz	5.5 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.1 dB
Radiated Emissions above 1 GHz	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

3.1 General Description Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A22M
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment WLAN:
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz mode 1024QAM for OFDMA in 11ax mode only BT-EDR: GFSK, π/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 BT-EDR: up to 3 Mbps BT-LE: up to 2 Mbps
Operating Frequency	WLAN: 2.4GHz: 2.412 ~ 2.472 GHz 5GHz: 5.18~ 5.32 GHz, 5.5 ~ 5.72 GHz, 5.745 ~ 5.825 GHz 5.9GHz: 5.845 ~ 5.885 GHz 6GHz: 5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz BT-EDR: 2.402 ~ 2.480 GHz BT-LE: 2.402 ~ 2.480 GHz
Number of Channel	WLAN: 2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2 5.9GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3
	802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 6GHz: 802.11a/ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
Antenna Type	802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 6GHz : 802.11a/ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7



Accessory Device	NA
Data Cable Supplied	NA

Note:

- 1. This report is prepared for FCC class II change. The difference compared with the Report No.: RFBARR-WTW-P21030485A-4 as the following:
 - ◆ Enable U-NII-4 and U-NII-3 & -4 span channels through software change.
 - ◆ Add antenna sets (Refer to note 5).
- 2. According to above conditions, for Radiated Emissions and Band Edge test item need to be performed and all data was tested to meet the requirements.
- 3. There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
- 4. Simultaneously transmission condition.

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

5. The antenna information is listed as below.

Original								
Ant. Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
4	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.895	PIFA	i-pex(MHF)	200
1	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
2	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
	Chain0	vso	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40
3	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.895 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG	40
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA	150
4	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.895	Dipole	R-SMA	150



Newly								
Ant. Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
5	Chain0	MSI	WA-P-LE-02-045 (Main)	2.24 2.68 3.01 -1.23 -1.96 -3.68	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX-4L	190
5	Chain1	MSI	WA-P-LE-02-046 (Aux)	-2.96 1.16 0.99 -2.31 -2.54 -7.44	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX-4L	325
	Chain0	PSA	RFPCA460632IMMB701	-13.20 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320mm
6	Chain1	PSA	RFPCA460632IMMB701	-13.20 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320mm
7	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	IPEX	300mm
<i>'</i>	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	IPEX	300mm

Note:

^{1.} For Radiated Emission test, the **Antenna Set 1** and **Antenna Set 4** were selected for the final test.

^{2.} For other test items, the max. gain (Antenna Set 1) was selected for the final test.



6. The EUT incorporates a MIMO function:

Modulation Mode	2.4GHz Band					
Modulation Mode		TX & RX Co	onfiguration			
802.11b	2	TX	2RX			
802.11g	2	TX	2	RX		
802.11n (HT20)	2	TX	2	RX		
802.11n (HT40)	2	TX	2	RX		
VHT20	2	TX	2	RX		
VHT40	2	TX	2	RX		
802.11ax (HE20)	2	TX	2	RX		
802.11ax (HE40)	2	TX	2	RX		
802.11ax (RU26/52/106/242/484)	2	TX	2RX			
HODIII ATION HODE	5GHz/5.9	GHz Band	6GHz Band			
MODULATION MODE	TX & RX Configuration		TX & RX Configuration			
802.11a	2TX	2RX	-	-		
802.11n (HT20)	2TX	2RX	-	-		
802.11n (HT40)	2TX	2RX	-	-		
802.11ac (VHT20)	2TX	2RX	-	-		
802.11ac (VHT40)	2TX	2RX	-	-		
802.11ac (VHT80)	2TX	2RX	-	-		
802.11ac (VHT160)	2TX	2RX	-	-		
802.11ax (HE20)	2TX	2RX	2TX	2RX		
802.11ax (HE40)	2TX	2RX	2TX	2RX		
802.11ax (HE80)	2TX	2RX	2TX	2RX		
802.11ax (HE160)	2TX	2RX	2TX	2RX		
802.11ax (RU26/52/106/242/484/996/1992)	2TX	2RX	2TX	2RX		

- 7. 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.
- 8. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



3.1.1 Test Mode Applicability and Tested Channel Detail

EUT		APPLICA	ABLE TO		DESCRIPTION.
CONFIGURE MODE	RE≥1G	RE<1G	PLC	ОВ	DESCRIPTION
-	$\sqrt{}$	√	V	\checkmark	-

Where

RE≥1G: Radiated Emission above 1GHz &

DE 40.

RE<1G: Radiated Emission below 1GHz

Bandedge Measurement
PLC: Power Line Conducted Emission

OB: Conducted Out-Band Emission Measurement

Note: In original report, the EUT's PIFA antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-place**.

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
802.11ax (HE80)	171	171	OFDMA	BPSK
+ BT-EDR	0 to 78	39	FHSS	GFSK

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.

MODE	AVAILABLE TESTED CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	
802.11ax (HE80) + BT-EDR	171	171	OFDMA	BPSK	
	0 to 78	39	FHSS	GFSK	

Power Line Conducted Emission Test:

☐ 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.

MODE	AVAILABLE TESTED CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	
802.11ax (HE80)	171	171	OFDMA	BPSK	
+ BT-EDR	0 to 78	39	FHSS	GFSK	

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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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	
802.11ax (HE80) + BT-EDR	171	171	OFDMA	BPSK	
	0 to 78	39	FHSS	GFSK	

Test Condition:

Applicable to	pplicable to Environmental Conditions		Tested By	
RE≥1G	RE≥1G 25deg. C, 65%RH		Sampson Chen	
RE<1G	22deg. C, 62%RH	120Vac, 60Hz	Sampson Chen	
PLC	PLC 25deg. C, 69%RH		Sampson Chen	
ОВ	23deg. C, 66%RH	120Vac, 60Hz	Eric Peng	

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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	FCC DoC	Provided by Lab
B.	Test Tool	Mediatek	MTK1849	NA	NA	Supplied by Applicant
C.	Adapter	Dell	LA65NS2-01	NA	NA	Provided by Lab

ID	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	1.8	No	0	Provided by Lab

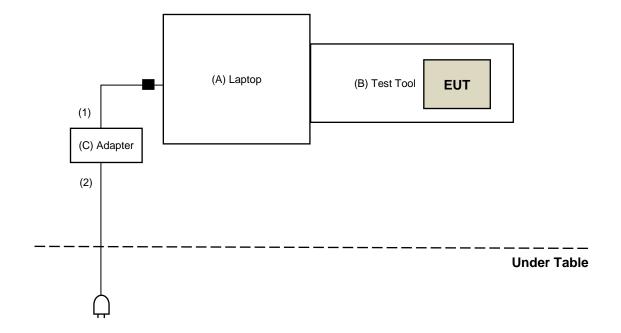
Note: The core is originally attached to the cable.

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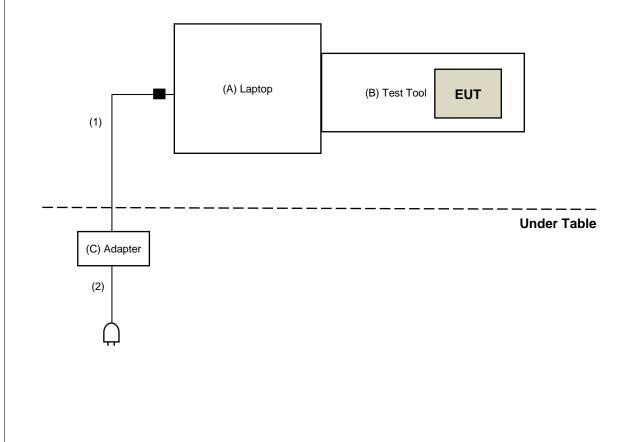


3.2.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emission 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		Field Strength at 3m		
New Rules v02r01		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)			
5250~5350 MHz	15.407(b)(2)	PK:-27 (dBm/MHz)	PK:68.2(dBµV/m)	
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(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4	
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(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4	

^{*1} beyond 75 MHz or more above of the band edge.

Note:

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

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

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^{*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.



4.1.2 Test Instruments

For Radiated Emission test:

For Radiated Ellission test.								
Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until				
Signal Analyzer Keysight	N9010A	MY56070348	2021/9/15	2022/9/14				
MXE EMI Receiver KEYSIGHT	N9038B	MY60180019	2021/2/1	2022/1/31				
Software	ADT_Radiated_V8. 7.08	NA	NA	NA				
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA				
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23				
LOOP ANTENNA Electro-Metrics	EM-6879	264	2021/3/5	2022/3/4				
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2021/1/7	2022/1/6				
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2021/1/7	2022/1/6				
Pre_Amplifier EMCI	EMC330N	980701	2021/3/10	2022/3/9				
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2021/10/27	2022/10/26				
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2021/3/17	2022/3/16				
RF Coaxial Cable COMMATE/PEWC	8D	966-4-2	2021/3/17	2022/3/16				
RF Coaxial Cable COMMATE/PEWC	8D	966-4-3	2021/3/17	2022/3/16				
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2021/1/11	2022/1/10				
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13				
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6				
RF Cable-Frequency Range : 1-26.5GHz EMCI	EMC104-SM-SM-1 200	160922	2020/12/25	2021/12/24				
RF Coaxial Cable EMCI	EMC104-SM-SM-2 000	180502	2021/4/26	2022/4/25				
RF Coaxial Cable EMCI	EMC104-SM-SM-6 000	180418	2021/4/26	2022/4/25				
Pre_Amplifier EMCI	EMC184045SE	980387	2021/1/11	2022/1/10				
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170519	2021/11/14	2022/11/13				
RF Cable-Frequency range: 1-40GHz EMCI	EMC102-KM-KM-1 200	160924	2021/1/11	2022/1/10				
RF cable (40GHz) EMCI	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9				

Note: 1. The test was performed in 966 Chamber No. 4.

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

3. Tested Date: 2021/11/16



For other test items:

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer R&S	FSV40	101516	2021/3/8	2022/3/7
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

Note: 1. The test was performed in Oven room 2.

- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. Tested Date: 2021/12/6

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4.1.3 Test Procedures

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:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

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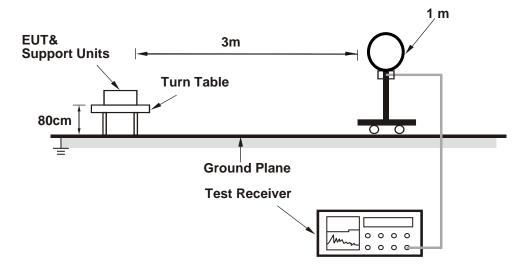


4.1.4 Deviation from Test Standard

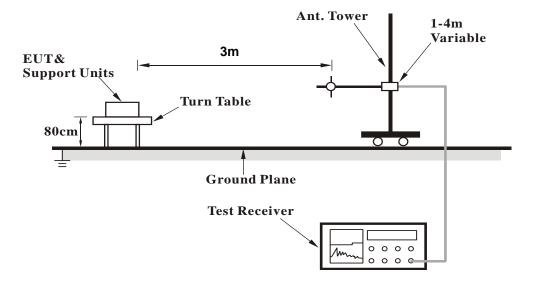
No deviation.

4.1.5 Test Setup

For Radiated emission below 30MHz

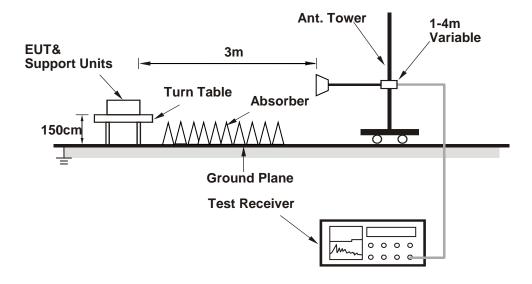


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Controlling software (WLAN: QATool_Dbg.exe / BT-EDR: MT7922_BT_Tool_PKT0224) has been activated to set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Antenna Set 1 (Model: RFMTA340718EMLB302)

Above 1GHz Data:

Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK)
			Average (AV)

	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	4882.00	48.2 PK	74.0	-25.8	1.88 H	100	48.1	0.1	
2	4882.00	45.2 AV	54.0	-8.8	1.88 H	100	45.1	0.1	
3	7323.00	42.2 PK	74.0	-31.8	1.55 H	204	35.4	6.8	
4	7323.00	31.1 AV	54.0	-22.9	1.55 H	204	24.3	6.8	
5	11710.00	57.8 PK	74.0	-16.2	2.57 H	45	46.4	11.4	
6	11710.00	46.9 AV	54.0	-7.1	2.57 H	45	35.5	11.4	
7	#17565.00	54.5 PK	88.2	-33.7	2.25 H	100	37.5	17.0	
8	#17565.00	44.8 AV	68.2	-23.4	2.25 H	100	27.8	17.0	
		An	tenna Polari	ty & Test Dis	stance : Vert	ical 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	4882.00	47.5 PK	74.0	-26.5	2.53 V	62	47.4	0.1	
2	4882.00	44.1 AV	54.0	-9.9	2.53 V	62	44.0	0.1	
3	7323.00	41.9 PK	74.0	-32.1	1.45 V	210	35.1	6.8	
4	7323.00	30.6 AV	54.0	-23.4	1.45 V	210	23.8	6.8	
5	11710.00	55.4 PK	74.0	-18.6	1.77 V	87	44.0	11.4	
6	11710.00	44.4 AV	54.0	-9.6	1.77 V	87	33.0	11.4	
7	#17565.00	52.8 PK	88.2	-35.4	3.29 V	179	35.8	17.0	
8	#17565.00	43.9 AV	68.2	-24.3	3.29 V	179	26.9	17.0	

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

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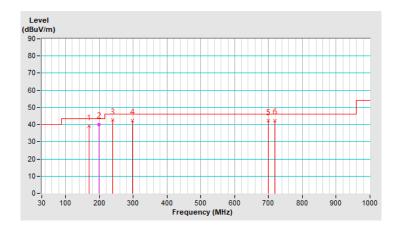
Below 1GHz Data:

Frequency Range 9kHz ~ 1GHz Detector Function	n Quasi-Peak (QP)
---	-------------------

	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	169.86	39.2 QP	43.5	-4.3	1.00 H	152	51.8	-12.6		
2	197.99	40.2 QP	43.5	-3.3	2.00 H	100	55.3	-15.1		
3	238.64	42.7 QP	46.0	-3.3	1.50 H	109	56.0	-13.3		
4	297.89	42.5 QP	46.0	-3.5	1.50 H	259	53.4	-10.9		
5	700.05	42.2 QP	46.0	-3.8	2.00 H	228	42.8	-0.6		
6	718.28	42.5 QP	46.0	-3.5	1.00 H	269	42.9	-0.4		

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 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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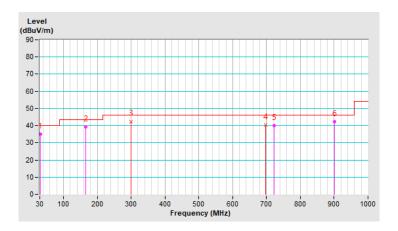


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

	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	31.17	34.9 QP	40.0	-5.1	1.00 V	347	48.8	-13.9			
2	166.05	39.2 QP	43.5	-4.3	2.00 V	347	51.5	-12.3			
3	299.77	42.5 QP	46.0	-3.5	1.50 V	247	53.3	-10.8			
4	698.05	40.5 QP	46.0	-5.5	1.50 V	210	41.1	-0.6			
5	722.13	40.1 QP	46.0	-5.9	1.50 V	223	40.4	-0.3			
6	901.79	42.4 QP	46.0	-3.6	1.00 V	198	39.1	3.3			

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 of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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Antenna Set 4 (Model: AN2450-4902BRS)

Above 1GHz Data:

quency Range 1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)
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Antenna Polarity & Test Distance - Horizontal at 3 m.

	Antenna Polarity & Test Distance. Horizontal at 3 III									
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	4882.00	48.3 PK	74.0	-25.7	2.33 H	192	48.2	0.1		
2	4882.00	45.1 AV	54.0	-8.9	2.33 H	192	45.0	0.1		
3	7323.00	41.5 PK	74.0	-32.5	1.59 H	67	34.7	6.8		
4	7323.00	30.9 AV	54.0	-23.1	1.59 H	67	24.1	6.8		
5	11710.00	50.4 PK	74.0	-23.6	1.44 H	258	39.0	11.4		
6	11710.00	39.8 AV	54.0	-14.2	1.44 H	258	28.4	11.4		
7	#17565.00	53.3 PK	88.2	-34.9	2.27 H	231	36.3	17.0		
8	#17565.00	43.4 AV	68.2	-24.8	2.27 H	231	26.4	17.0		
		An	tenna Polari	ty & Test Dis	stance : Vert	ical 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	4882.00	46.6 PK	74.0	-27.4	1.98 V	167	46.5	0.1		
2	4882.00	43.7 AV	54.0	-10.3	1.98 V	167	43.6	0.1		
3	7323.00	41.2 PK	74.0	-32.8	2.53 V	154	34.4	6.8		
4	7323.00	30.3 AV	54.0	-23.7	2.53 V	154	23.5	6.8		
5	11710.00	54.1 PK	74.0	-19.9	2.23 V	222	42.7	11.4		
6	11710.00	44.6 AV	54.0	-9.4	2.23 V	222	33.2	11.4		
7	#17565.00	54.3 PK	88.2	-33.9	2.63 V	327	37.3	17.0		

Remarks:

#17565.00

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

68.2

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)

2.63 V

327

27.5

17.0

-23.7

3. Margin value = Emission Level - Limit value

44.5 AV

- 4. The other emission levels were very low against the limit.
- 5. " # ": The radiated frequency is out of the restricted band.

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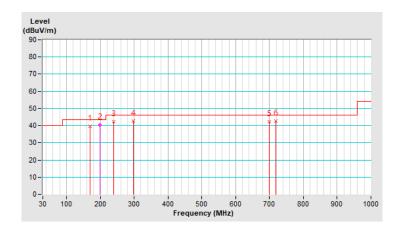
Below 1GHz Data:

Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
-----------------	-------------	--------------------------	-----------------

	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	169.33	39.5 QP	43.5	-4.0	1.00 H	140	52.0	-12.5		
2	198.26	40.5 QP	43.5	-3.0	2.00 H	105	55.5	-15.0		
3	238.79	42.4 QP	46.0	-3.6	1.50 H	117	55.7	-13.3		
4	297.73	42.7 QP	46.0	-3.3	1.50 H	269	53.6	-10.9		
5	699.85	42.4 QP	46.0	-3.6	2.00 H	237	43.0	-0.6		
6	718.34	42.7 QP	46.0	-3.3	1.00 H	287	43.1	-0.4		

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 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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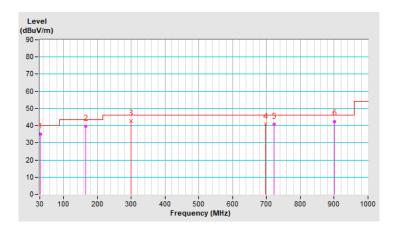


Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

	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	31.55	35.1 QP	40.0	-4.9	1.00 V	358	48.9	-13.8		
2	166.10	39.8 QP	43.5	-3.7	2.00 V	249	52.1	-12.3		
3	300.01	42.8 QP	46.0	-3.2	1.50 V	240	53.6	-10.8		
4	698.11	40.7 QP	46.0	-5.3	1.50 V	205	41.3	-0.6		
5	722.23	40.7 QP	46.0	-5.3	1.50 V	205	41.0	-0.3		
6	901.92	42.5 QP	46.0	-3.5	1.00 V	221	39.2	3.3		

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 of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Fraguency (MHz)	Conducted Limit (dBuV)			
Frequency (MHz)	Quasi-peak	Average		
0.15 - 0.5	66 - 56	56 - 46		
0.50 - 5.0	56	46		
5.0 - 30.0	60	50		

Note: 1. The lower limit shall apply at the transition frequencies.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver R&S	ESCS 30	847124/029	2021/10/13	2022/10/12
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
LISN R & S	ESH3-Z5	835239/001	2021/3/26	2022/3/25
50 ohms Terminator	50	3	2021/10/27	2022/10/26
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
Software BVADT	BVADT_Cond_V7. 3.7.4	NA	NA	NA

Note: 1. The test was performed in Conduction 1.

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

3. Tested Date: 2021/11/16

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^{2.} The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



4.2.3 Test Procedures

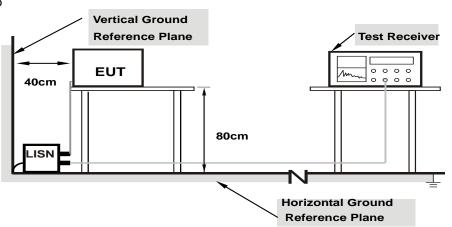
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.



4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
-----------------	----------------	--	--------------------------------------

	Phase Of Power : Line (L)									
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	Q.P. AV. Q.P. AV.		Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.05	42.56	32.56	52.61	42.61	66.00	56.00	-13.39	-13.39
2	0.21250	10.05	31.31	21.14	41.36	31.19	63.11	53.11	-21.75	-21.92
3	0.30625	10.06	21.84	6.55	31.90	16.61	60.07	50.07	-28.17	-33.46
4	0.47813	10.07	23.58	8.03	33.65	18.10	56.37	46.37	-22.72	-28.27
5	1.88672	10.15	19.90	10.98	30.05	21.13	56.00	46.00	-25.95	-24.87
6	9.52344	10.58	25.15	18.70	35.73	29.28	60.00	50.00	-24.27	-20.72

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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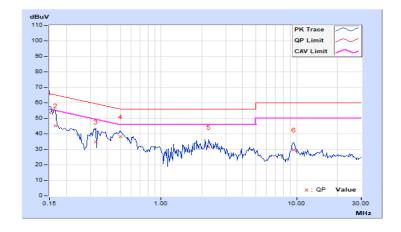


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
-----------------	----------------	--	---

	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	P. AV. Q.P. AV.		Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.02	43.78	33.79	53.80	43.81	66.00	56.00	-12.20	-12.19
2	0.16562	10.02	35.10	22.18	45.12	32.20	65.18	55.18	-20.06	-22.98
3	0.32969	10.04	24.86	4.57	34.90	14.61	59.46	49.46	-24.56	-34.85
4	0.50156	10.04	27.95	13.99	37.99	24.03	56.00	46.00	-18.01	-21.97
5	2.25781	10.14	21.44	12.30	31.58	22.44	56.00	46.00	-24.42	-23.56
6	9.56250	10.47	19.22	12.05	29.69	22.52	60.00	50.00	-30.31	-27.48

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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4.3 Conducted Out of Band Emission Measurement

4.3.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedures

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 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 OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 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.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Results

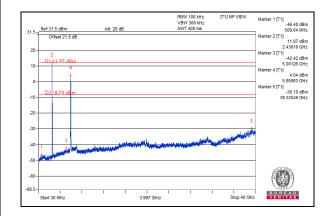
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

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Reference No.: BARR-WTW-P21100532



5.9GHz_802.11ax (HE80) CH171 + BT-EDR (GFSK) CH39





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.

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

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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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