

RADIO TEST REPORT FCC ID: M7CM15QF6

Product: Tablet PC Trade Mark: Hena Model No.: M15QF6 Family Model: NID-1070, NID-1070 BLACK, NID-1070 SILVER, 15QF6, MW15QF6, MID15QF6 Report No.: S22021703202002

Issue Date: Mar 15. 2022

Prepared for

Hena Digital Technology (Shenzhen) Co., Ltd.

13F, Block B, Tairan Building, Futian District, Shenzhen, China

Prepared by

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1 TEST RESULT CERTIFICATION

Hena Digital Technology (Shenzhen) Co., Ltd.	
13F, Block B, Tairan Building, Futian District, Shenzhen, China	
Hena Digital Technology (Shenzhen) Co., Ltd.	
13F, Block B, Tairan Building, Futian District, Shenzhen, China	
Tablet PC	
M15QF6	
NID-1070, NID-1070 BLACK, NID-1070 SILVER, 15QF6, MW15QF6, MID15QF6	

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	Complied
ANSI C63.10-2013	Complied
KDB 558074 D01 15.247 Meas Guidance v05r02	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Feb 18 . 2022 ~ Mar 14. 2022
Testing Engineer	:	Allen Lin
		(Allen Liu)
Authorized Signatory	:	Ades
		(Alex Li)

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2 SUMMARY OF TEST RESULTS

R

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FCC Part15 (15.247), Subpart C								
Standard Section Test Item Verdict Remark								
15.207	Conducted Emission	PASS						
15.247 (a)(2)	6dB Bandwidth	PASS						
15.247 (b)	Peak Output Power	PASS						
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS						
15.247 (e)	Power Spectral Density	PASS						
15.247 (d)	Band Edge Emission	PASS						
15.247 (d)	Spurious RF Conducted Emission	PASS						
15.203	Antenna Requirement	PASS						

ACCREDITED

Certificate #4298.01

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab. :	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm :	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location :	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Tablet PC			
Trade Mark	Hena			
FCC ID	M7CM15QF6			
Model No.	M15QF6			
Family Model	NID-1070, NID-1070 BLACK, NID-1070 SILVER, 15QF6, MW15QF6, MID15QF6			
Model Difference	All models are the same circuit and RF module, except the model name.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	FPC Antenna			
Antenna Gain	2.07 dBi			
Adapter	Model: GDA0101H-U0500200 Input: 100-240V 50/60Hz 0.3A Output: 5V2.0A			
Battery	DC 3.7V, 5000Mah			
Power supply	DC 3.7V from battery or DC 5V from Adapter.			
HW Version	R863-RK3566-V0.1_YH			
SW Version	Android 11			

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.





Revision History

Version	Description	Issued Date
		loodod Bato
Rev.01	Initial issue of report	Mar 15. 2022
		-





5 DESCRIPTION OF TEST MODES

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

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)	
0	2402	
1	2404	
19	2440	
20	2442	
38	2478	
39	2480	

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item	Data Rate/ Modulation			
AC Conducted Emission	Mode 1: normal link mode			
	Mode 1: normal link mode			
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps			
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps			
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps			
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps			
Conducted Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps			
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps			

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

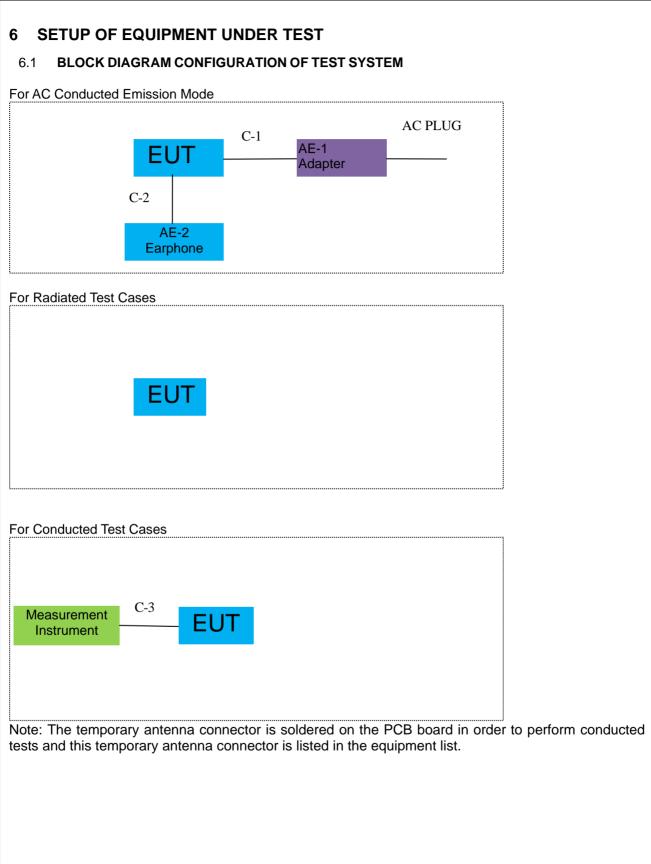
2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

4. EUT built-in battery-powered, the battery is fully-charged.

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6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	GDA0101H-U0500200	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone Cable	NO	NO	1.5m
C-3	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

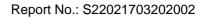
Radiation& Conducted Test equipment

	Iona Conducted	lest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.19 2021.11.07	2021.11.18 2022.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.19 2021.11.07	2021.11.18 2022.11.06	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list





AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

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Certificate #4298.01

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit		
Frequency(IVII IZ)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. *Decreases with the logarithm of the frequency

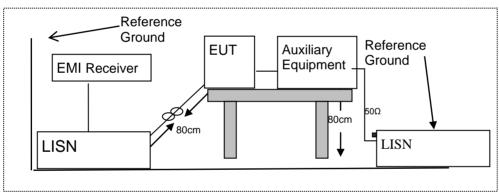
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.





7.1.6 Test Results

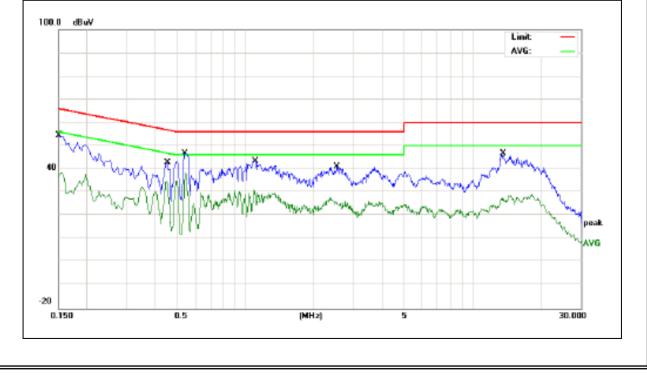
EUT:	Tablet PC	Model Name :	M15QF6
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	-Remark
0.1500	44.94	9.73	54.67	65.99	-11.32	QP
0.1500	28.76	9.73	38.49	55.99	-17.50	AVG
0.4540	33.34	9.64	42.98	56.80	-13.82	QP
0.4540	22.51	9.64	32.15	46.80	-14.65	AVG
0.5420	37.19	9.66	46.85	56.00	-9.15	QP
0.5420	28.69	9.66	38.35	46.00	-7.65	AVG
1.1060	33.84	9.75	43.59	56.00	-12.41	QP
1.1060	23.50	9.75	33.25	46.00	-12.75	AVG
2.5379	31.38	9.73	41.11	56.00	-14.89	QP
2.5379	21.29	9.73	31.02	46.00	-14.98	AVG
13.6700	37.05	9.79	46.84	60.00	-13.16	QP
13.6700	19.16	9.79	28.95	50.00	-21.05	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.







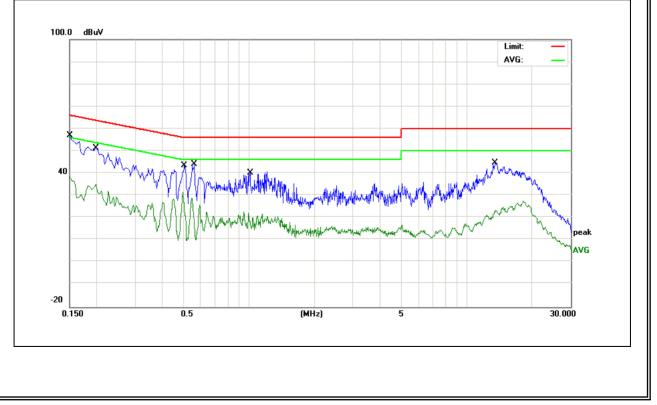
EUT:	Tablet PC	Model Name :	M15QF6
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerik
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	47.40	9.63	57.03	65.99	-8.96	QP
0.1500	29.13	9.63	38.76	55.99	-17.23	AVG
0.1980	41.51	9.63	51.14	63.69	-12.55	QP
0.1980	31.59	9.63	41.22	53.69	-12.47	AVG
0.5060	33.58	9.74	43.32	56.00	-12.68	QP
0.5060	23.91	9.74	33.65	46.00	-12.35	AVG
0.5620	34.30	9.71	44.01	56.00	-11.99	QP
0.5620	21.83	9.71	31.54	46.00	-14.46	AVG
1.0140	30.34	9.75	40.09	56.00	-15.91	QP
1.0140	20.39	9.75	30.14	46.00	-15.86	AVG
13.4220	34.77	9.75	44.52	60.00	-15.48	QP
13.4220	17.66	9.75	27.41	50.00	-22.59	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	GHz	
16.42-16.423	399.9-410	4.5-5.15	
16.69475-16.69525	608-614	5.35-5.46	
16.80425-16.80475	960-1240	7.25-7.75	
25.5-25.67	1300-1427	8.025-8.5	
37.5-38.25	1435-1626.5	9.0-9.2	
73-74.6	1645.5-1646.5	9.3-9.5	
74.8-75.2	1660-1710	10.6-12.7	
123-138	2200-2300	14.47-14.5	
149.9-150.05	2310-2390	15.35-16.2	
156.52475-156.52525	2483.5-2500	17.7-21.4	
156.7-156.9	2690-2900	22.01-23.12	
162.0125-167.17	3260-3267	23.6-24.0	
167.72-173.2	3332-3339	31.2-31.8	
240-285	3345.8-3358	36.43-36.5	
322-335.4	3600-4400	(2)	
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358	

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

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Eroquonov(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

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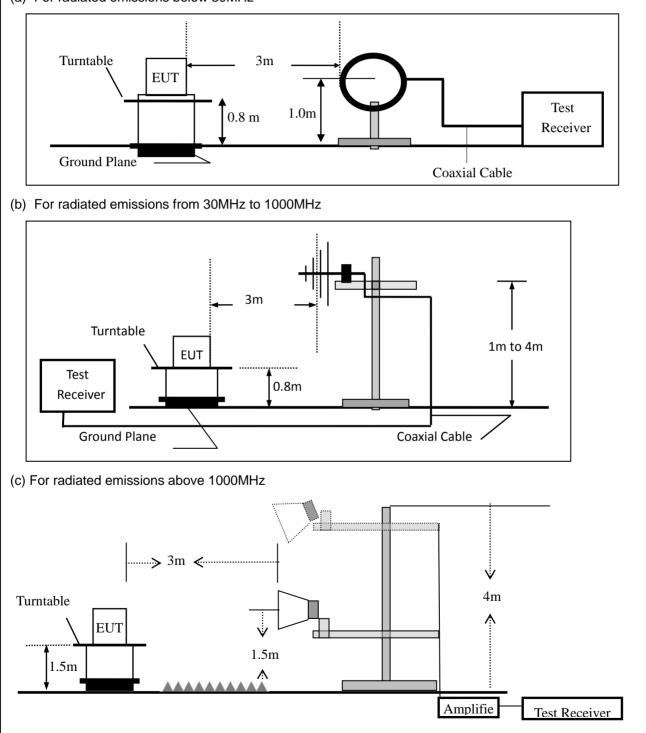


7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

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

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

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

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

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



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

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Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

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

7.2.6 Test Results

	Spurious	Emission	below	30MHz	(9KHz to 30MHz)
--	----------	----------	-------	-------	-----------------

EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Lest Mode.	Mode1/Mode2/Mode3/ Mode4	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

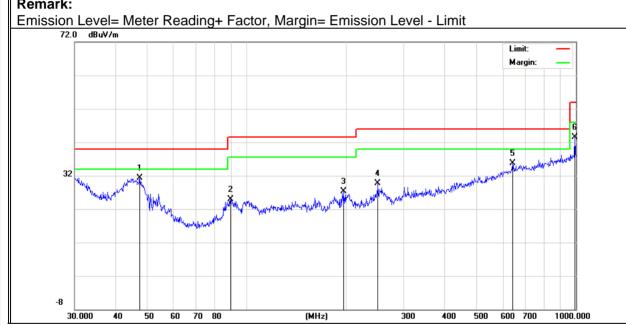
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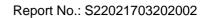
EUT:	Tablet PC	Model Name :	M15QF6
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	47.3255	15.29	16.01	31.30	40.00	-8.70	QP
V	89.2764	9.32	15.58	24.90	43.50	-18.60	QP
V	197.2000	12.22	15.04	27.26	43.50	-16.24	QP
V	250.3012	10.94	18.82	29.76	46.00	-16.24	QP
V	642.8613	7.98	27.64	35.62	46.00	-10.38	QP
V	993.0114	11.45	31.99	43.44	54.00	-10.56	QP

Remark:







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remai
Н	150.0108	12.72	17.99	30.71	43.50	-12.79	QP
Н	197.8926	24.86	14.97	39.83	43.50	-3.67	QP
H	250.3012	16.31	18.82	35.13	46.00	-10.87	QP
<u>H</u>	265.6757	13.14	20.02	33.16	46.00	-12.84	QP
<u>н</u> Н	350.4768 893.8567	13.98 9.43	21.95 30.40	35.93 39.83	46.00 46.00	-10.07 -6.17	QP QP
	: n Level= Meter F 2.0 dBuV/m	Reading+ Fac	tor, Margin	= Emission Lev	vel - Limit	Limit: —	·
						Margin:	Ē
:	32		1 *	2 3 4 × 4	5 ×	6 X Marine Marine Marine	
	Multimented with the set of the set of	Mary Constanting Market	water and the second state of the second states and	and the second second	MANNA MATANA ANA ANA ANA ANA ANA ANA ANA ANA AN		_
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JT:		on Above [·] ablet PC		1	Model No.:		M15QF	6		
emperature		0°C			Relative Hu	imiditv:	48%			
est Mode:		lode2/Mod	e3/Mode		Test By:		Allen Li	u		
					,		-	-		
Frequency	Read Level	Cable loss	Antenna Factor	Pream Facto		Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
			Low (Channel	(2402 MHz)(G	FSK)Abov	ve 1G			
4804.338	62.28	5.21	35.59	44.30	58.78	74.00	-15.22	Pk	Vertical	
4804.338	41.31	5.21	35.59	44.30	37.81	54.00	-16.19	AV	Vertical	
7206.107	60.86	6.48	36.27	44.60	59.01	74.00	-14.99	Pk	Vertical	
7206.107	42.37	6.48	36.27	44.60	40.52	54.00	-13.48	AV	Vertical	
4804.169	63.32	5.21	35.55	44.30	59.78	74.00	-14.22	Pk	Horizontal	
4804.169	43.03	5.21	35.55	44.30	39.49	54.00	-14.51	AV	Horizontal	
7206.214	62.40	6.48	36.27	44.52	60.63	74.00	-13.37	Pk	Horizontal	
7206.214	41.78	6.48	36.27	44.52	40.01	54.00	-13.99	AV	Horizontal	
			Mid C	Channel	(2440 MHz)(G	FSK)Abov	e 1G			
4880.473	63.46	5.21	35.66	44.20	60.13	74.00	-13.87	Pk	Vertical	
4880.473	42.90	5.21	35.66	44.20	39.57	54.00	-14.43	AV	Vertical	
7320.265	64.50	7.10	36.50	44.43	63.67	74.00	-10.33	Pk	Vertical	
7320.265	41.43	7.10	36.50	44.43	40.60	54.00	-13.40	AV	Vertical	
4880.366	62.98	5.21	35.66	44.20	59.65	74.00	-14.35	Pk	Horizontal	
4880.366	41.75	5.21	35.66	44.20	38.42	54.00	-15.58	AV	Horizontal	
7320.234	59.53	7.10	36.50	44.43	58.70	74.00	-15.30	Pk	Horizontal	
7320.234	43.97	7.10	36.50	44.43	43.14	54.00	-10.86	AV	Horizontal	
			High (Channel	(2480 MHz)(C	FSK) Abov	ve 1G			
4960.482	63.37	5.21	35.52	44.21	59.89	74.00	-14.11	Pk	Vertical	
4960.482	42.84	5.21	35.52	44.21	39.36	54.00	-14.64	AV	Vertical	
7440.131	64.24	7.10	36.53	44.60	63.27	74.00	-10.73	Pk	Vertical	
7440.131	48.72	7.10	36.53	44.60) 47.75	54.00	-6.25	AV	Vertical	
4960.326	63.18	5.21	35.52	44.21	59.70	74.00	-14.30	Pk	Horizontal	
4960.326	45.44	5.21	35.52	44.21	41.96	54.00	-12.04	AV	Horizontal	
7440.199	63.92	7.10	36.53	44.60	62.95	74.00	-11.05	Pk	Horizontal	
7440.199	45.76	7.10	36.53	44.60	44.79	54.00	-9.21	AV	Horizontal	

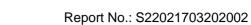
Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

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EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

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Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				1Mbps	(GFSK)				
2310.00	63.29	2.97	27.80	43.80	50.26	74	-23.74	Pk	Horizonta
2310.00	42.91	2.97	27.80	43.80	29.88	54	-24.12	AV	Horizonta
2310.00	62.55	2.97	27.80	43.80	49.52	74	-24.48	Pk	Vertical
2310.00	43.17	2.97	27.80	43.80	30.14	54	-23.86	AV	Vertical
2390.00	63.24	3.14	27.21	43.80	49.79	74	-24.21	Pk	Vertical
2390.00	43.69	3.14	27.21	43.80	30.24	54	-23.76	AV	Vertical
2390.00	64.83	3.14	27.21	43.80	51.38	74	-22.62	Pk	Horizonta
2390.00	42.16	3.14	27.21	43.80	28.71	54	-25.29	AV	Horizonta
2483.50	63.15	3.58	27.70	44.00	50.43	74	-23.57	Pk	Vertical
2483.50	43.69	3.58	27.70	44.00	30.97	54	-23.03	AV	Vertical
2483.50	65.33	3.58	27.70	44.00	52.61	74	-21.39	Pk	Horizonta
2483.50	43.15	3.58	27.70	44.00	30.43	54	-23.57	AV	Horizonta

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

	Spurious	s Em	ission ii	n Restricte	d Band 32	260MHz-1	8000MHz						
EU	T:		Tablet	PC		Model N	lo.:		M15C	۶F6			
Те	mperature	e:	20 ℃			Relative	Relative Humidity: 48		48%	48%			
Tes	st Mode:		Mode2	2/ Mode4		Test By	:		Allen	Liu			
								r					
	Frequency	Read	ing Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Li	imits	Margin	Detector	Comment	
	(MHz)	(d	BµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	μV/m)	(dB)	Туре		
	3260	6	4.22	4.04	29.57	44.70	53.13		74	-20.87	Pk	Vertical	
ſ	3260	5	7.42	4.04	29.57	44.70	46.33		54	-7.67	AV	Vertical	
	3260	6	5.43	4.04	29.57	44.70	54.34		74	-19.66	Pk	Horizontal	
	3260	5	8.67	4.04	29.57	44.70	47.58		54	-6.42	AV	Horizontal	
	3332	6	6.49	4.26	29.87	44.40	56.22		74	-17.78	Pk	Vertical	
	3332	5	6.81	4.26	29.87	44.40	46.54		54	-7.46	AV	Vertical	
	3332	6	6.50	4.26	29.87	44.40	56.23		74	-17.77	Pk	Horizontal	
	3332	5	3.28	4.26	29.87	44.40	43.01		54	-10.99	AV	Horizontal	
	17797	4	5.66	10.99	43.95	43.50	57.10		74	-16.90	Pk	Vertical	
	17797	3	4.50	10.99	43.95	43.50	45.94		54	-8.06	AV	Vertical	
	17788	4	4.55	11.81	43.69	44.60	55.45		74	-18.55	Pk	Horizontal	
ſ	17788	3	6.72	11.81	43.69	44.60	47.62		54	-6.38	AV	Horizontal	

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Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

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7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

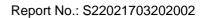
The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





7.4.6 Test Results

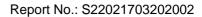
EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

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Note: Not Applicable





7.5 PEAK OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

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7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

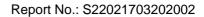




7.6.6 Test Results

EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

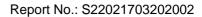
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Tablet PC	Model No.:	M15QF6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu





7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

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7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.





7.9 ANTENNA APPLICATION

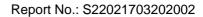
7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached FPC antenna (Gain: 2.07 dBi). It comply with the standard requirement.





8 TEST RESULTS

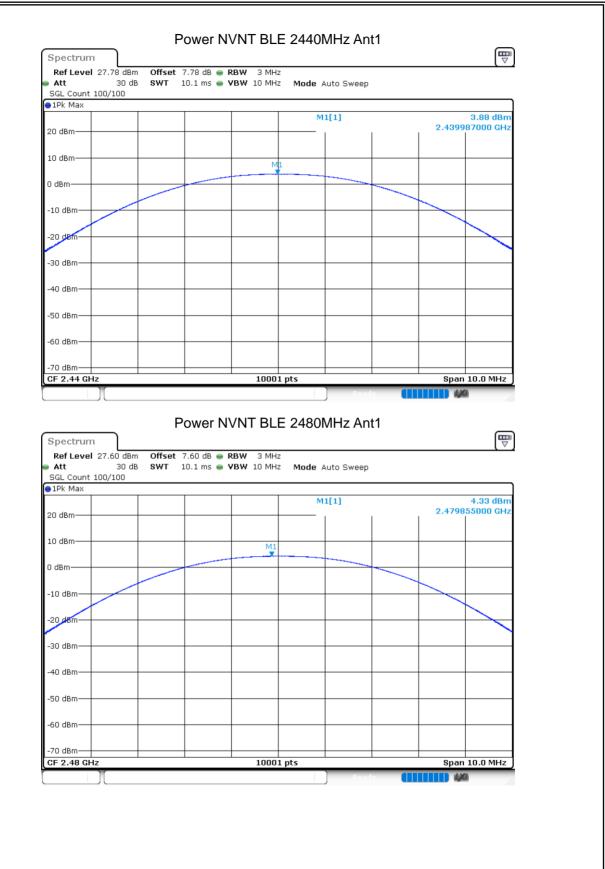
8.1 MAXIMUM CONDUCTED OUTPUT POWER Condition Mode Frequency (MHz) Antenna Conducted Power (dBm) Limit (dBm) Verdict NVNT BLE 2402 Ant 1 3.22 30 Pass NVNT 3.884 BLE 2440 30 Pass Ant 1 NVNT BLE 2480 Ant 1 4.329 30 Pass Power NVNT BLE 2402MHz Ant1 ₽ Spectrum Ref Level 27.62 dBm Offset 7.62 dB 曼 RBW 3 MHz 30 dB SWT 10.1 ms 👄 VBW 10 MHz Att Mode Auto Sweep SGL Count 100/100 ●1Pk Max M1[1] 3.22 dBm 2.401996000 GHz 20 dBm 10 dBm 0 dBm--10 dBm -20 dB -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Span 10.0 MHz CF 2.402 GHz 10001 pts

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Report No.: S22021703202002



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Report No.: S2

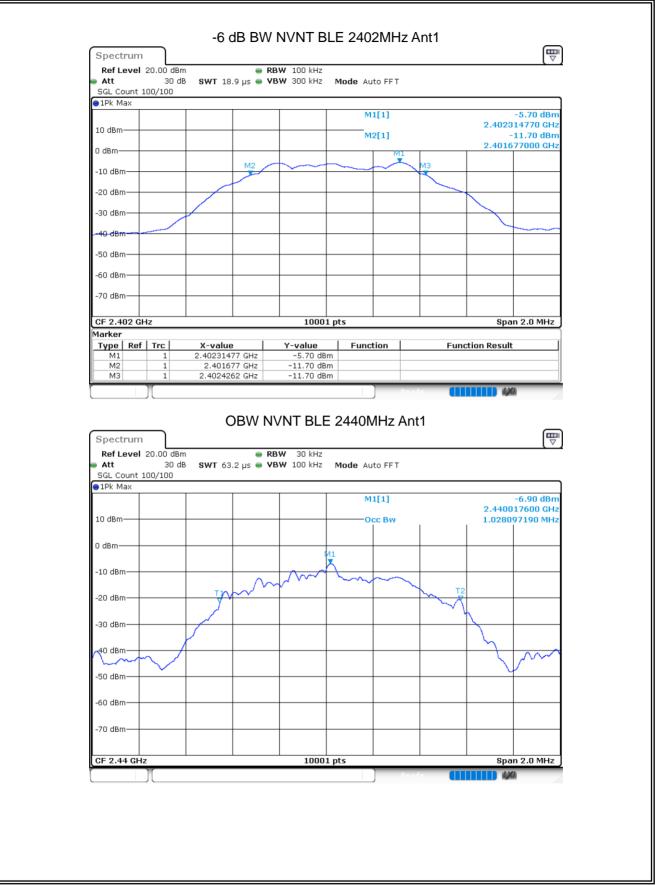
8.2 OCCUPIED CHANNEL BANDWIDTH

		D CHANNEL B							
Condition	Mode	Frequency	Antenna	99% OBW	-6 dB Bandwidth	Limit -6 dB Bandwidth	Verdi		
		(MHz)		(MHz)	(MHz)	(MHz)			
NVNT	BLE	2402	Ant 1	1.0253	0.7492	0.5	Pass		
NVNT	BLE	2440	Ant 1	1.0281	0.733	0.5	Pass		
NVNT	BLE	2480	Ant 1	1.0315	0.652	0.5	Pas		
	Ref Att	Count 100/100 Max 3m m Bm Bm Bm Bm Bm Bm	•			-7.43 dBm 2.402031400 GHz 1.025297470 MHz			
	-70 d	Bm-							
	CF 2	CF 2.402 GHz 10001 pts Span 2.0 MHz							
					Peady				

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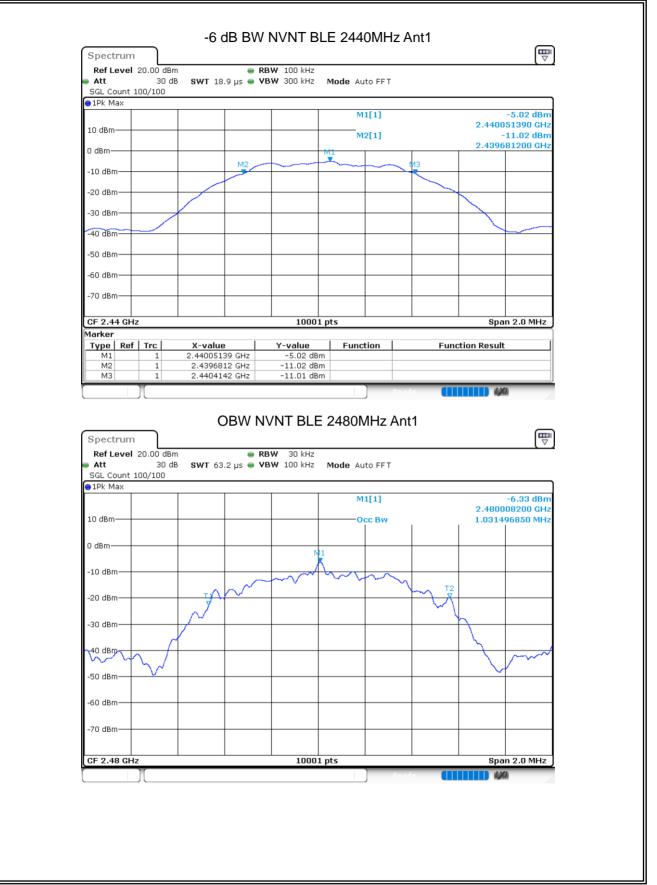
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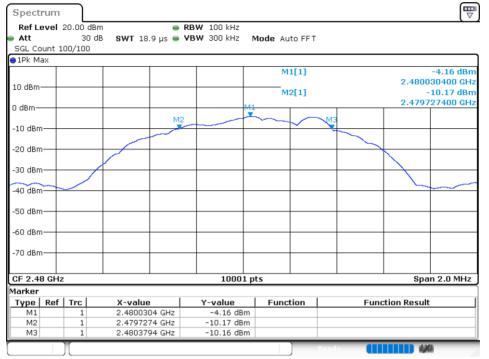






-6 dB BW NVNT BLE 2480MHz Ant1

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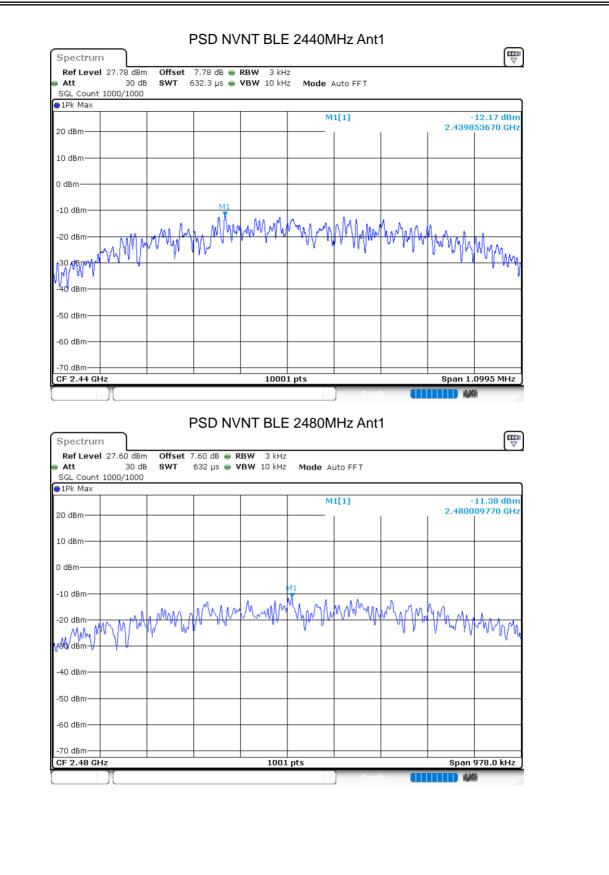




8.3 MA Condition	XIMUM Mode	POWER SPECTRAL Frequency (MHz)	DENSITY I		D (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Ant 1		12.614	8	Pass
NVNT	BLE	2440	Ant 1		12.174	8	Pass
NVNT	BLE	2480	Ant 1		11.378	8	Pass
	Spect Ref Lo Att	PS rum avel 27.62 dBm Offset 7.6 30 dB SWT 632. unt 1000/1000 ax		LE 2402M kHz kHz Mode A	IHz Ant1	-12.61 dBm 2.402015510 GHz	
	<u> </u>						

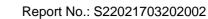
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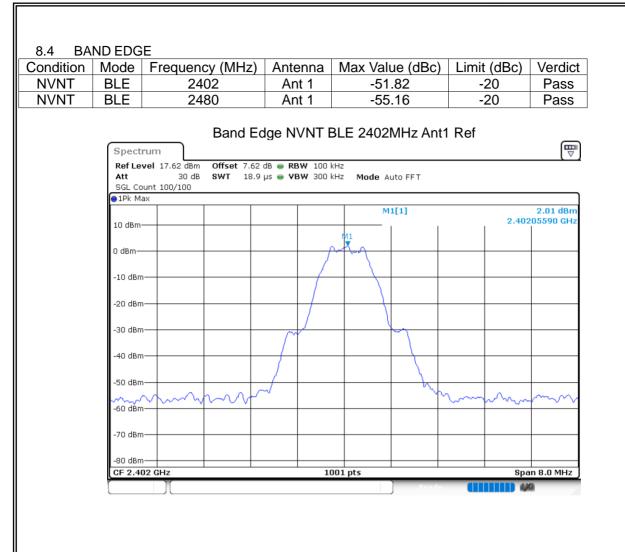




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Att 3 SGL Count 500/5 91Pk Max		227.5 µs 👄 '	VBW 300 KH	- 11000 11	uto FFT				ו
10 dBm-				MI	L[1]		2 402	2.27 dBm	
				M2	2[1]		-	05000 GHz 54.59 Br	1
0 dBm							2.400	00000 GHz	2
-10 dBm D1 -1	7.991 dBm								
-20 0011									1
-30 dBm									1
-40 dBm		M4							1
-50 dBm	hronomethrone	www.duthintor	www.www.	phallown	withur	almon yuman	willing the work	with the	
-60 dBm									1
-70 dBm									1
-80 dBm Start 2.306 GHz		<u> </u>	1001	pts			Stop	2.406 GHz	1
Marker Type Ref Tro	: X-valı		Y-value	Funct	ion	Eusy	tion Result]
M1 M2	1 2.40 1	205 GHz 2.4 GHz 2.39 GHz	2.27 dB -54.59 dB -55.55 dB	im im		Fund			
			-49.82 dB						
Spectrum Ref Level 17.60	Band	7.60 dB 👄 R	IVNT BL	E 2480		t1 Ref)
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480		t1 Ref			
Spectrum Ref Level 17.60 Att 3	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480N		t1 Ref		3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480		
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 ●1Pk Max	Band	I Edge N 7.60 dB • R	IVNT BL	E 24801	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 ● 1Pk Max 10 dBm 0 dBm -10 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 ● 1Pk Max 10 dBm 0 dBm -10 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • IPk Max 10 dBm • 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 • 1Pk Max 10 dBm • 1D dBm • 20 dBm -30 dBm -50 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	
Spectrum Ref Level 17.60 Att 3 SGL Count 100/1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm	Band	I Edge N 7.60 dB • R	IVNT BL	E 2480	uto FFT	t1 Ref	2.480	3.20 dBm	

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Spectrum	Band Edg	e NVNT BLE	E 2480N	1Hz Ant	1 Emissio	on	Ē
Ref Level 17.6	30 dB SWT 227	50 dB e RBW 100 .5 μs e VBW 300		e Auto FFT			[
1Pk Max							
			M1[1]		3.28 dBm 2.48005000 GHz		
				M2[1]			3000 GH2 4.74 dBm
) daim — —				mz[1]			0000 GHz
10 cBm							
20 cBm D1 -	L6.804 dBm						
20 0811-							
40 dβm — —							
	N/A						
50 dBm	المراجعة المريد والمكمليون والمراجع والم	we Walshing up would	a family boost of the sta	wand lakes	والالمولية وتواليت والمري	une mound	
50 dBm				v		~ ~	0.00
70 dBm							
BO dBm	-		201			010	F76 0U-
tart 2.476 GH	:	10	001 pts			stop 2.	576 GHz
arker	1	1	1 =	1			
Type Ref Tr M1	c X-value 1 2.48005	Y-value	e Fu dBm	nction	Fun	ction Result	
M2	1 2.48005						
M3		GHz -54.00					
M4	1 2.4995						

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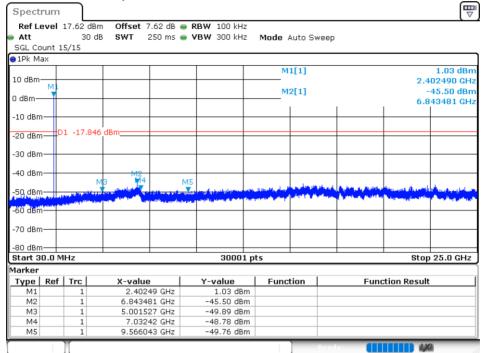
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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant 1	-47.64	-20	Pass
NVNT	BLE	2440	Ant 1	-48.26	-20	Pass
NVNT	BLE	2480	Ant 1	-48.57	-20	Pass
	👄 Att	rum evel 17.62 dBm Offset 7.63 30 dB SWT 18. ount 800/800 ax				2.15 dBm 507980 GHz
	-20 dBn -20 dB n					
	-40 dBn -50 dBn					
	-60 dBn -70 dBn	n				
	-80 dBn	02 GHz	30	001 pts	Sna	an 1.5 MHz
				Read		0

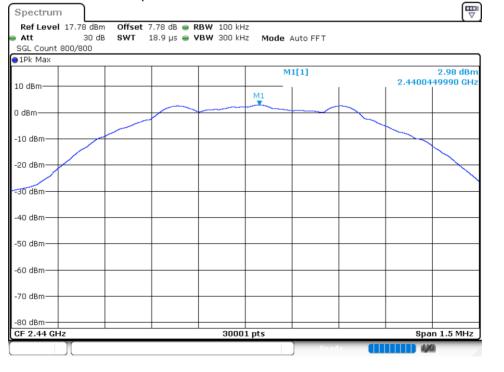




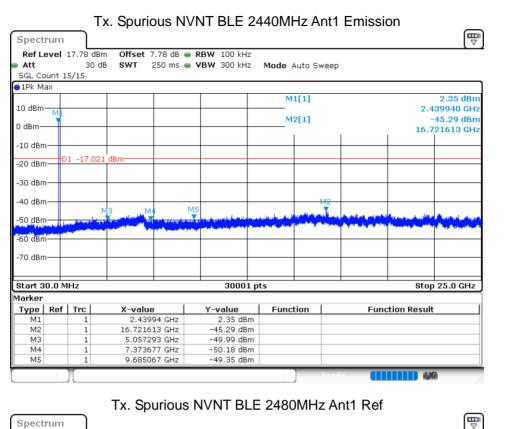
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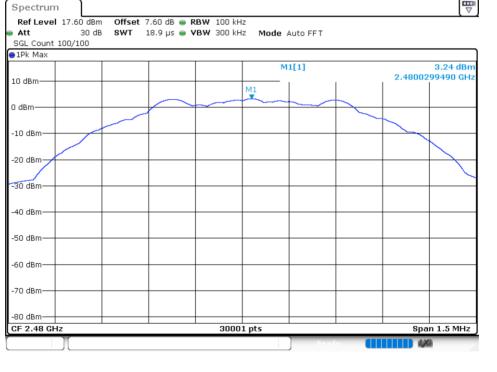




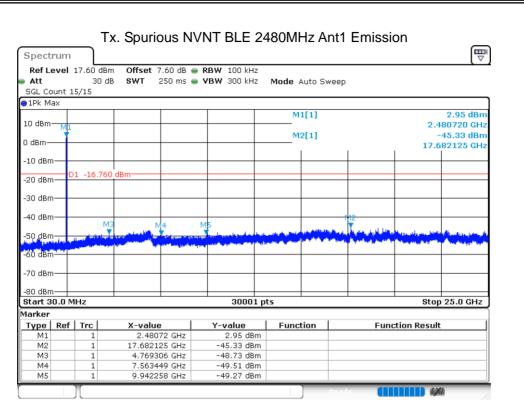




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