
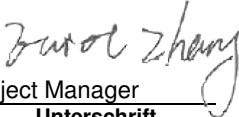



Prüfbericht-Nr.: <i>Test Report No.:</i>	50080309 001	Auftrags-Nr.: <i>Order No.:</i>	154243386	Seite 1 von 28 <i>Page 1 of 28</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	52195766	Auftragsdatum: <i>Order date:</i>	04.25.2017	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co.,Ltd. RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG			
Prüfgegenstand: <i>Test item:</i>	MID			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MID8006-L, DL8006, DL80XXXXXX (x=0-9, A-Z, a-z, - or blank, for market purpose only, all models are identical except the model number, brand or color) FCC ID: XMF-MID8006L			
Auftrags-Inhalt: <i>Order content:</i>	Complete test			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013			
Wareneingangsdatum: <i>Date of receipt:</i>	04.01.2017			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000567056-002			
Prüfzeitraum: <i>Testing period:</i>	04.01.2017 to 07.04.2017			
Ort der Prüfung: <i>Place of testing:</i>	MRT Technology(Suzhou) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
07.06.2017 Elliot Zhang / Assistant Project Manager		07.06.2017 Shi Li / Department Manager		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				
Sonstiges / Other				
Only evaluate the Bluetooth v4.0 function in this test report. FCC ID: XMF-MID8006L				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft Legend: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 6dB & 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS***RESULT: Pass***5.1.5 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.6 RADIATED SPURIOUS EMISSION***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2017/06/20
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2018/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2017/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2018/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2017/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2018/06/20
Temperature/ Meter Humidity	Ouleinuo	N/A	MRTSUE06114	1 year	2017/12/20

Radiated Emission

Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2017/12/08
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2017/11/03
Preamplifier	Agilent	83017A	MRTSUE06020	1 year	2018/03/29
Preamplifier	Schwarzbeck	BBV9721	MRTSUE06121	1 year	2018/04/16
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/07
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2017/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2017/11/07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2018/01/05
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06115	1 year	2017/11/20

Conducted Test Equipment

Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2018/05/08
USB Wideband Power Sensor	Boonton	55006	MRTSUE06109	1 year	2018/05/08
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06114	1 year	2017/11/20

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±4.18dB
	> 1GHz	±4.76dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a 'Tablet PC' device. It supports Bluetooth 4.0 (Dual mode) & 2.4GHz Wi-Fi 802.11 b/g/n(HT20)/n(HT40) & 5GHz Wi-Fi 802.11 a wireless technology.

The 2.4GHz WIFI, 5GHz WIFI and Bluetooth can TX simultaneously

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	Tablet PC
Model No.:	MID8006-L, DL8006, DL80XXXXXX(x=0-9, A-Z, a-z, - or blank, for market purpose only, all models are identical except the model number, brand or color)
Rated Voltage:	DC 3.7V 6000mAh via internal rechargeable Li-Poly battery DC 5.0V 2.5A via AC/DC adapter for charging
Bluetooth Classical	
Frequency Range:	2402 ~ 2480MHz
Channel Separation	1MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type:	PIFA Antenna
Antenna Gain:	1.28 dBi
Bluetooth Low Energy	
Frequency Range:	2402 ~ 2480MHz
Channel Separation	2MHz
Modulation Type:	GFSK
Antenna Type:	PIFA Antenna
Antenna Gain:	1.28 dBi

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Channel	Frequency
TM1	00	2402
TM2	19	2440
TM3	39	2480

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- Circuit Diagram
- ID Label and Location Info
- Photo Document
- Operation Description
- Block Diagram
- PCB Layout
- Model Difference Letter
- Schematics
- User Manual

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT:**Pass**

According to the manufacturer declared, the EUT has one internal antenna, the directional gain of antenna is 1.28dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 5: Antenna Requirement

FCC 15.203 – Antenna Requirement 1	
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device
Results:	Antenna type: PIFA antenna
Verdict:	PASS

FCC 15.204 – Antenna Requirement 2	
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used
Verdict:	PASS

5.1.2 Peak Output Power

RESULT:**Pass**

Date of testing : 2017-04-01
Test standard : FCC Part 15.247(b)(3)
Test procedure : ANSI C63.10: 2013
Clause 9.1 of KDB 558074 D01 v04
Limit : FCC Part 15.247(b)(3)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 6: Peak Output Power, TM1 to TM3

Mode	Antenna Gain [dBi]	CH.	Freq. [MHz]	Maximum Peak Conducted Output Power [dBm]	Peak Conducted Output Power Limit [dBm]
TM1	1.28	00	2402	-4.26	30
TM2		19	2440	-3.80	30
TM3		39	2480	-4.27	30

5.1.3 6dB Bandwidth

RESULT:
Pass

Date of testing : 2017-04-02
 Test standard : FCC Part 15.247(a)(2)
 Test procedure : ANSI C63.10: 2013
 : Clause 8 of KDB 558074 D01 v04
 Limit : ≥500kHz for 6dB Bandwidth
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 7: 6dB & 99% Bandwidth, TM1 to TM3

Mode	Frequency [MHz]	6dB Bandwidth [kHz]
TM1	2402	695.6
TM2	2440	699.0
TM3	2480	699.0

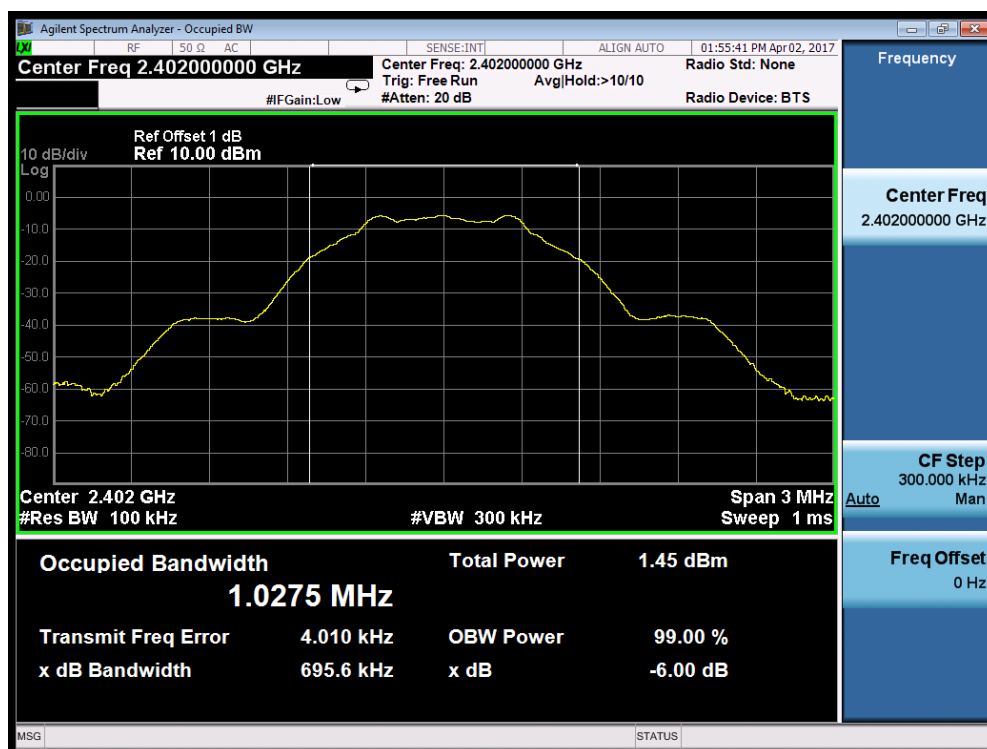
Figure 1: 6dB Bandwidth, TM1


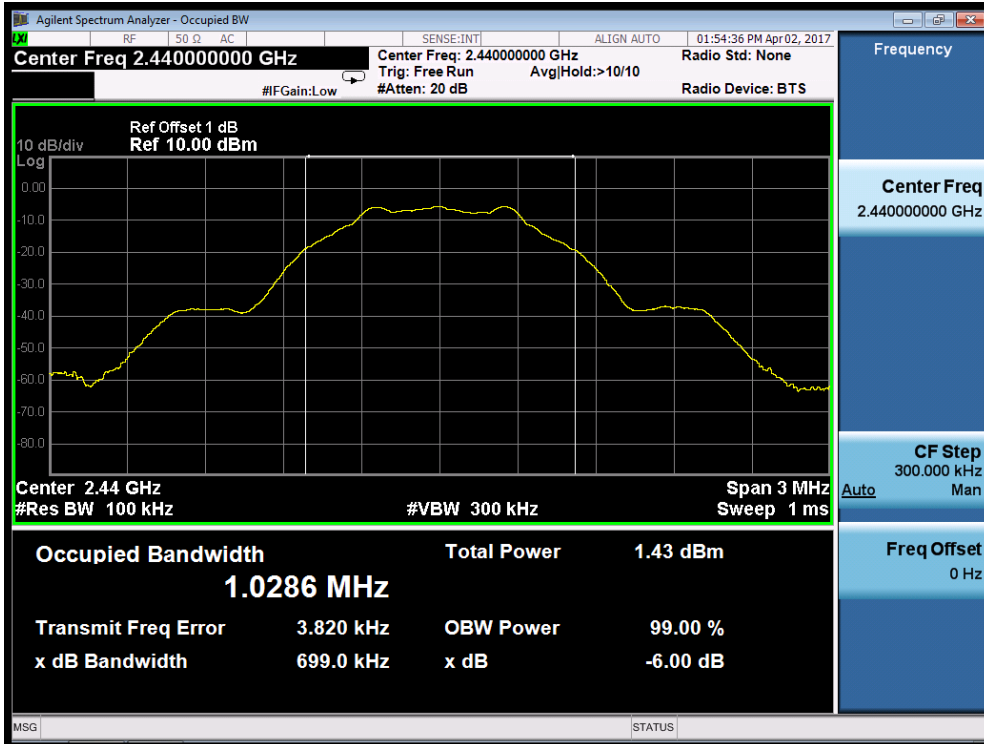
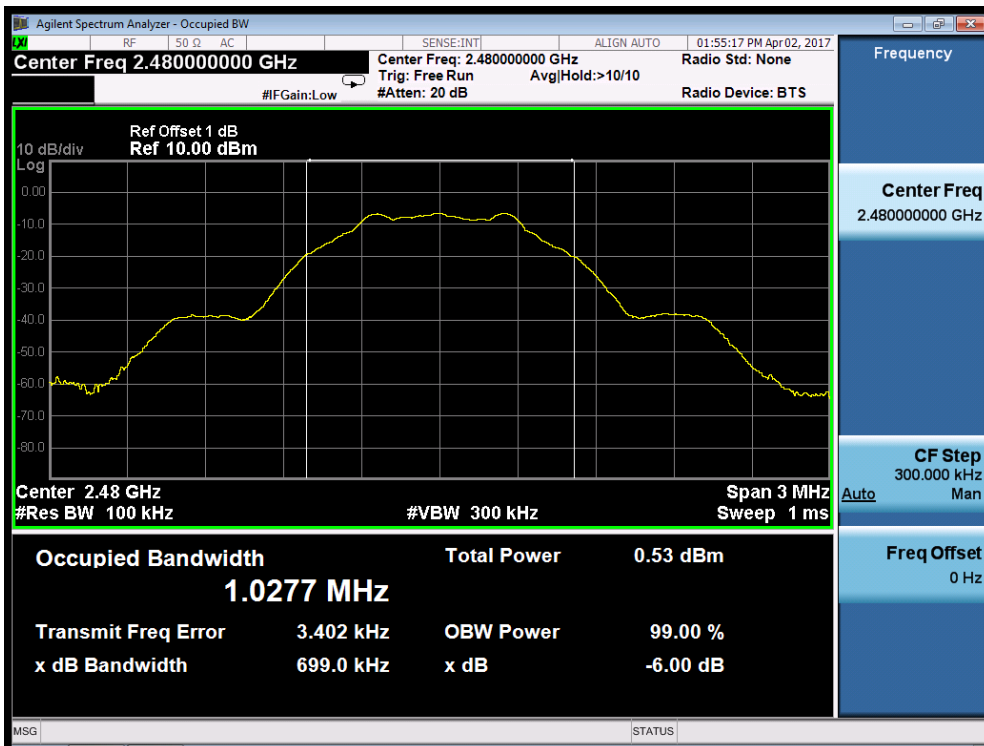
Figure 2: 6dB Bandwidth, TM2

Figure 3: 6dB Bandwidth, TM3


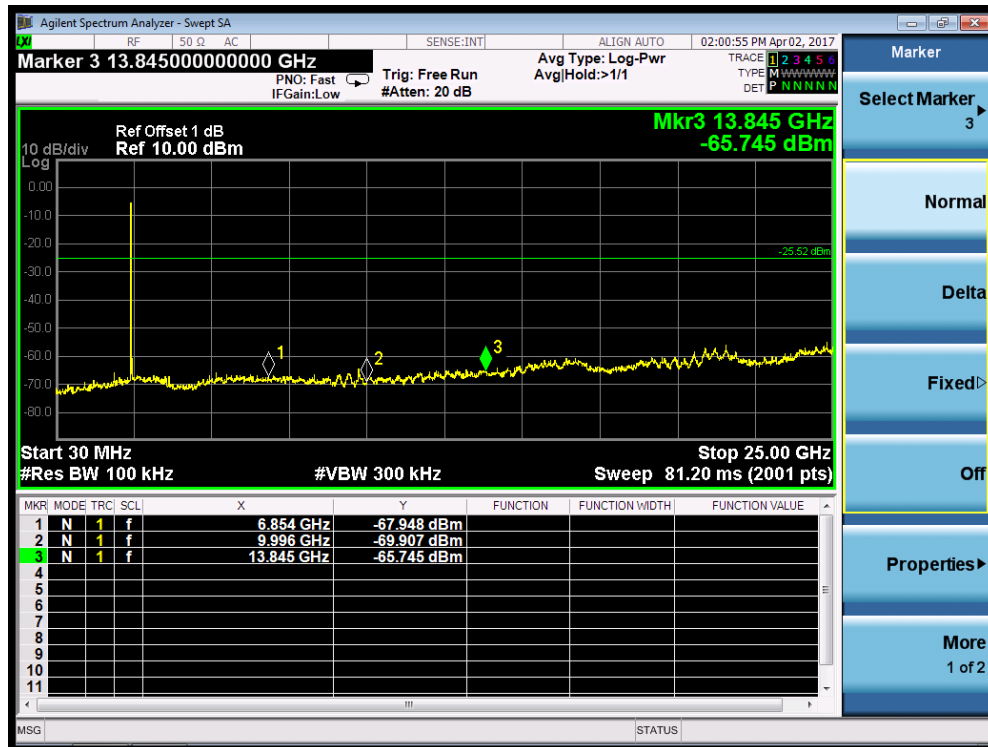
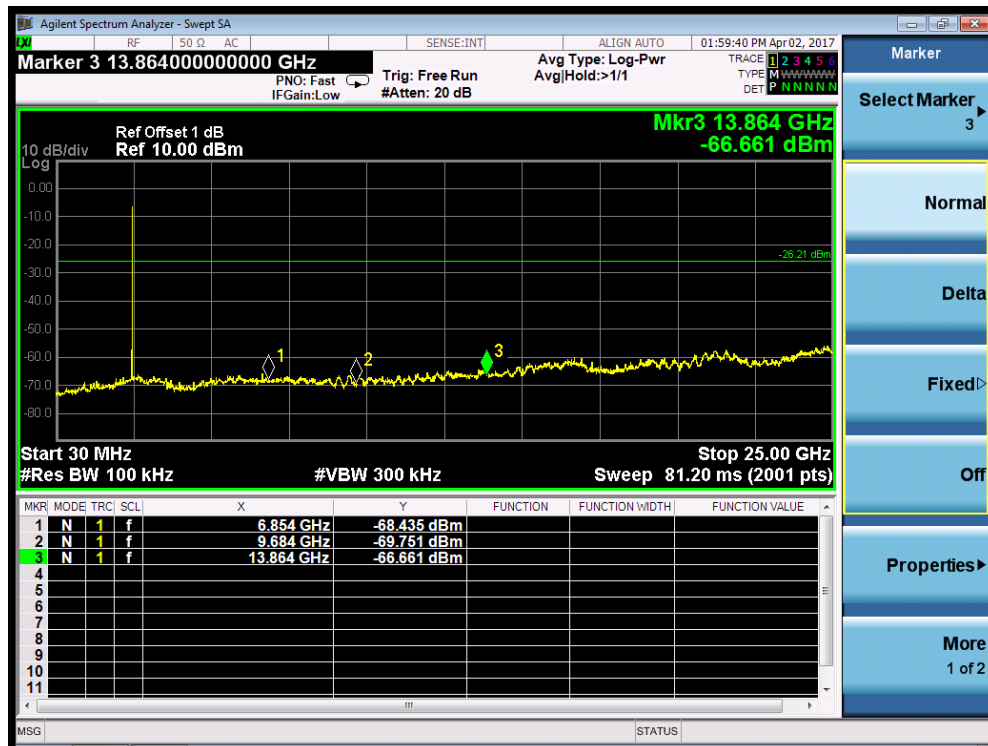
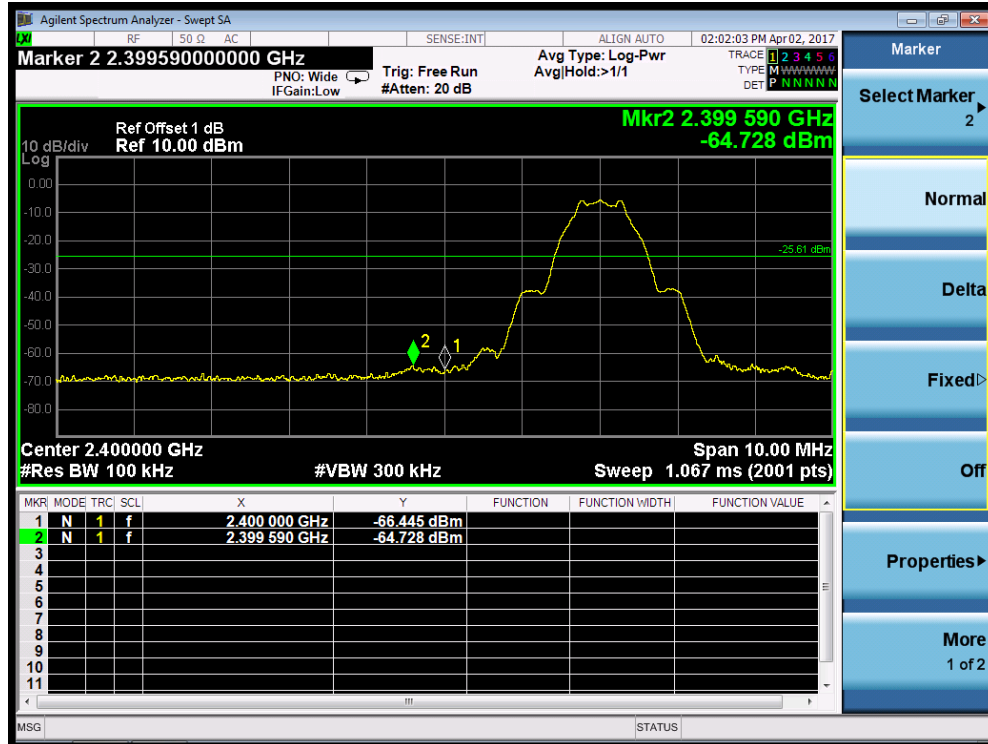
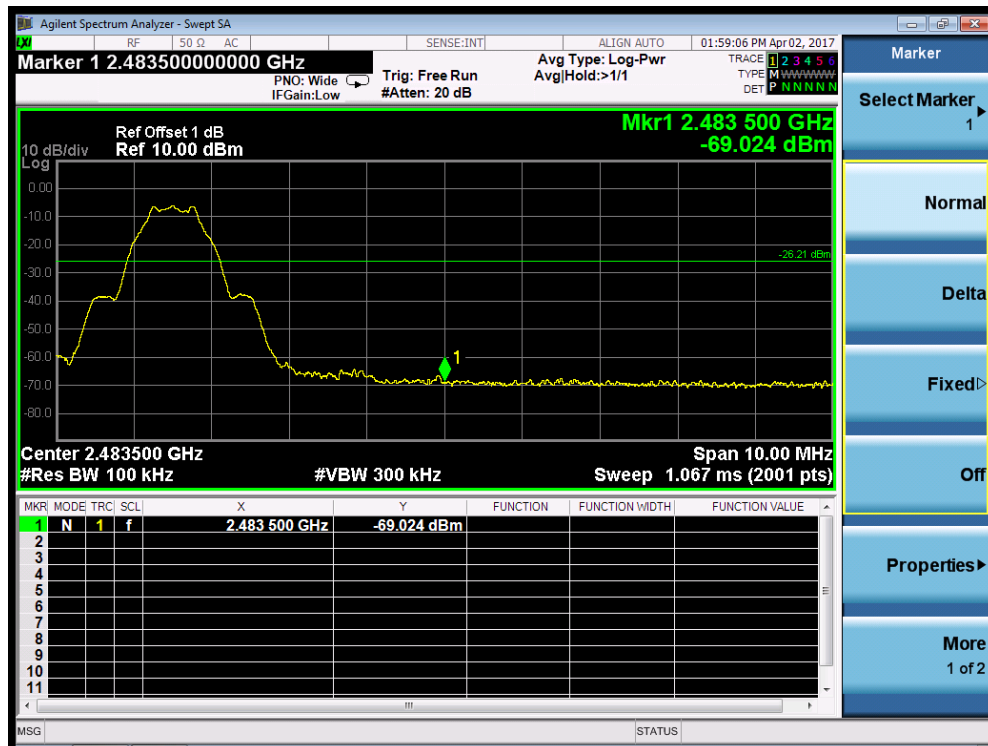
Figure 5: Conducted Spurious Emission, TM2

Figure 6: Conducted Spurious Emission, TM3


Figure 7: Conducted Bandedge, TM1

Figure 8: Conducted Bandedge, TM3


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5.1.5 Power Spectral Density

RESULT:
Pass

Date of testing : 2017-04-02
 Test standard : FCC Part 15.247(e)
 Test procedure : ANSI C63.10: 2013
 : Clause 10 of KDB 558074 D01 v04
 Limit : FCC Part 15.247(e)
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM3
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 8: Power Spectral Density, TM1 to TM3

Mode	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	2402	-20.25	8
TM2	2440	-20.42	8
TM3	2480	-20.90	8

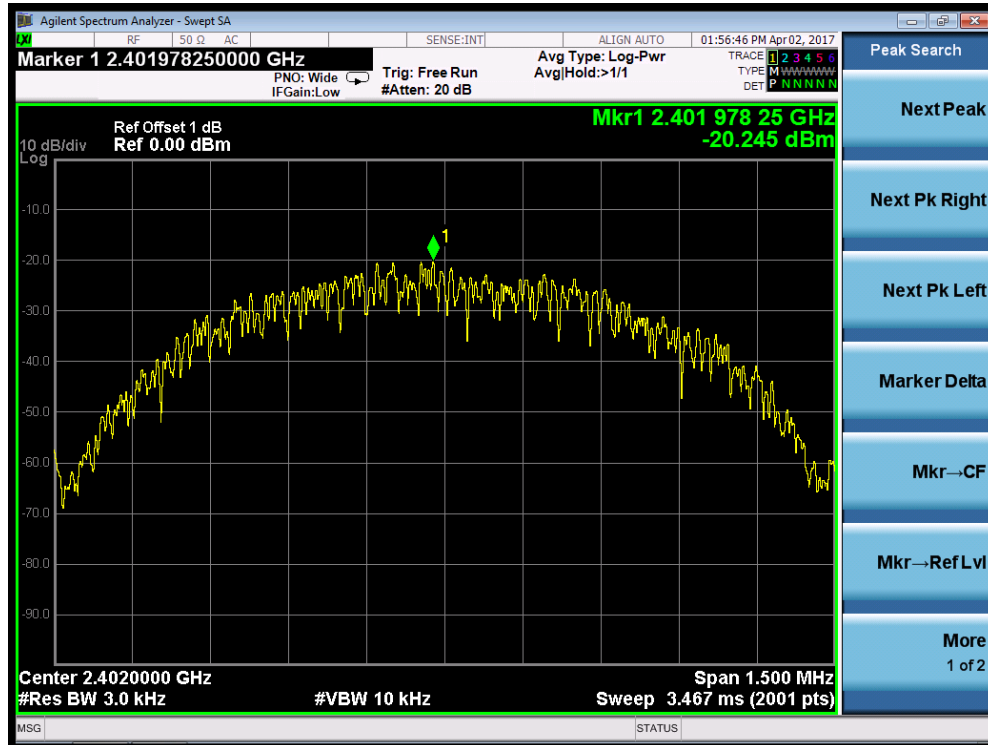
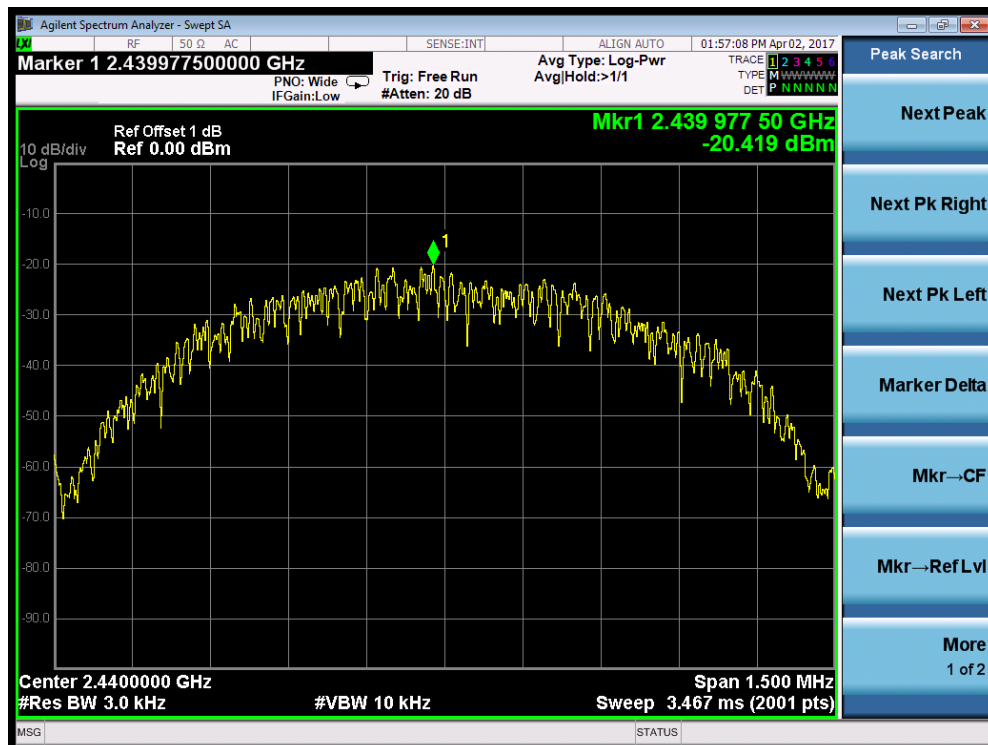
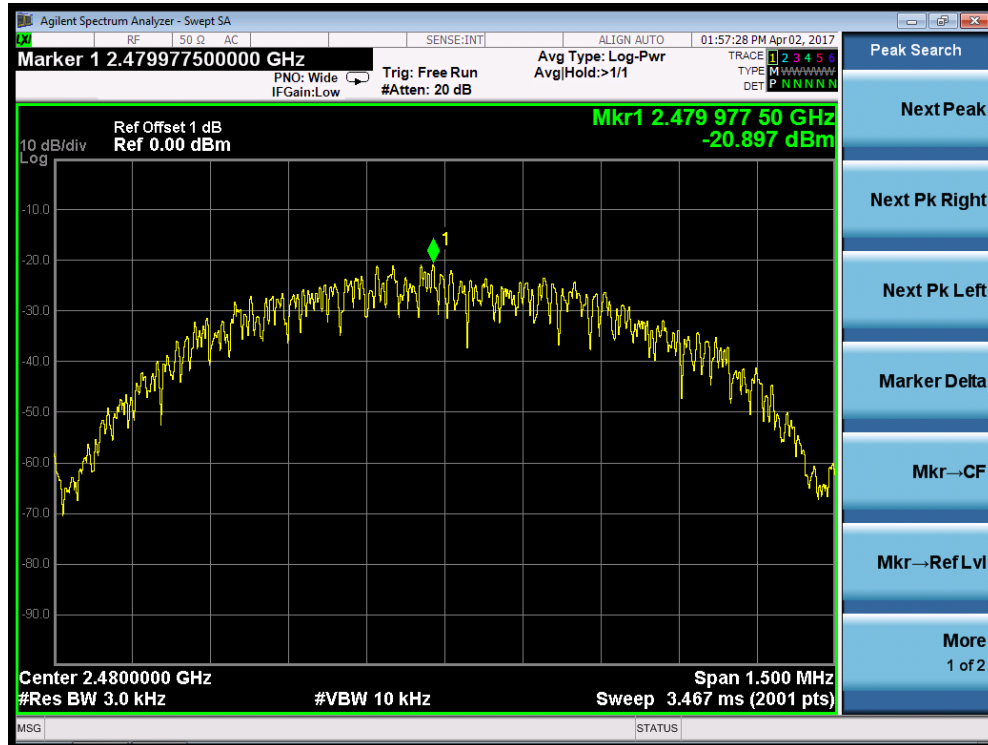
Figure 9: Power Spectral Density, TM1

Figure 10: Power Spectral Density, TM2


Figure 11: Power Spectral Density, TM3


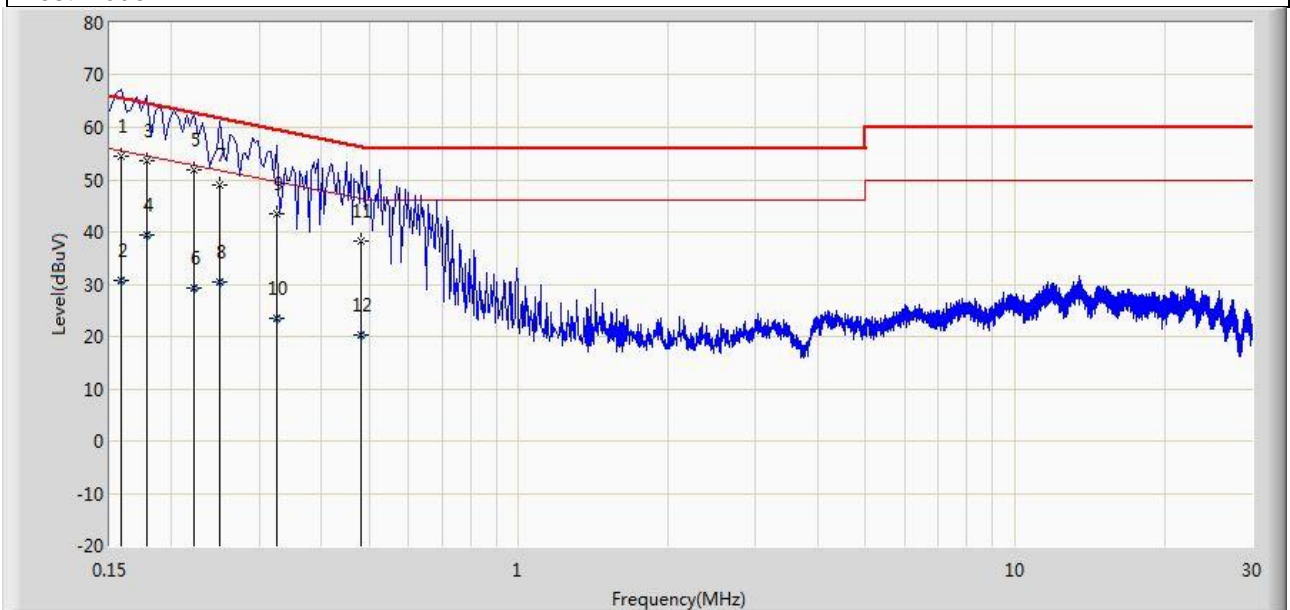
5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:
PASS

Date of testing : 2017/07/04
 Test standard : FCC Part 15.207 (a)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC Part 15.207(a)
 Kind of test site : Shielded room

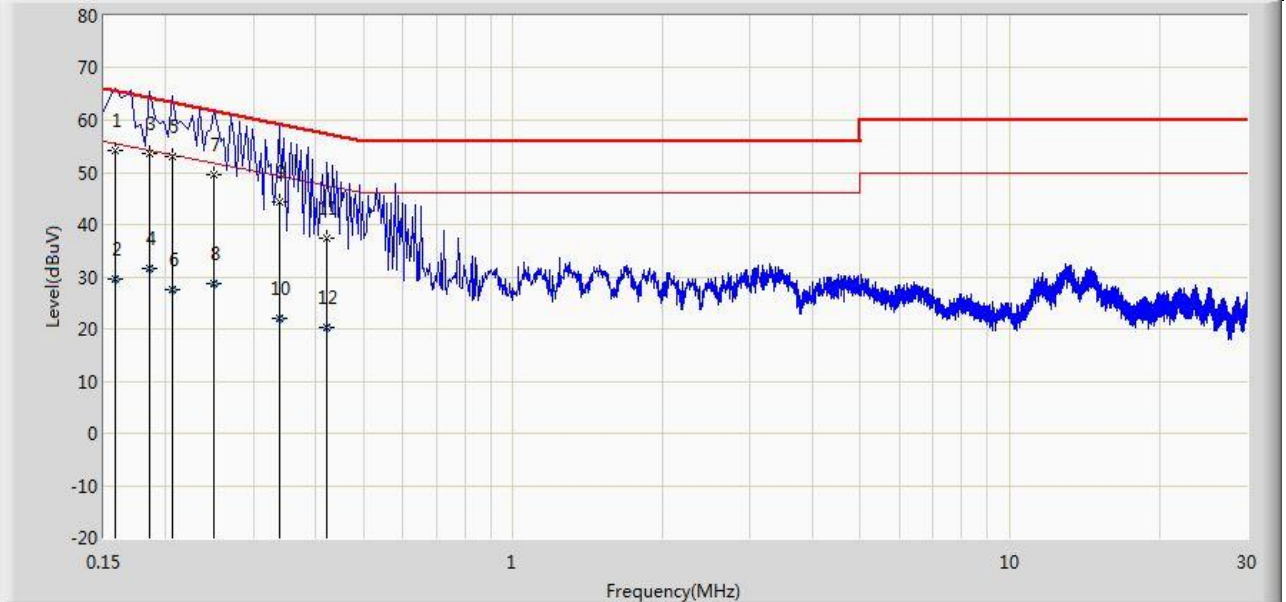
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: MID	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.158	54.521	44.210	-11.047	65.568	10.311	QP
2			0.158	30.758	20.447	-24.810	55.568	10.311	AV
3			0.178	53.646	43.588	-10.932	64.578	10.058	QP
4			0.178	39.427	29.369	-15.152	54.578	10.058	AV
5			0.222	51.797	41.856	-10.947	62.744	9.941	QP
6		*	0.222	29.310	19.369	-23.434	52.744	9.941	AV
7			0.250	48.958	38.993	-12.800	61.757	9.964	QP
8			0.250	30.383	20.419	-21.374	51.757	9.964	AV
9			0.326	43.354	33.329	-16.199	59.552	10.025	QP
10			0.326	23.346	13.322	-26.206	49.552	10.025	AV
11			0.482	38.194	28.042	-18.111	56.305	10.152	QP
12			0.482	20.315	10.163	-25.990	46.305	10.152	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: MID	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.158	54.278	43.988	-11.290	65.568	10.290	QP
2			0.158	29.427	19.137	-26.141	55.568	10.290	AV
3			0.186	53.518	43.482	-10.696	64.213	10.035	QP
4			0.186	31.535	21.500	-22.678	54.213	10.035	AV
5			0.206	52.937	42.936	-10.428	63.365	10.001	QP
6			0.206	27.510	17.509	-25.855	53.365	10.001	AV
7			0.250	49.599	39.598	-12.158	61.757	10.001	QP
8			0.250	28.724	18.723	-23.034	51.757	10.001	AV
9			0.338	44.408	34.342	-14.845	59.252	10.066	QP
10			0.338	22.130	12.064	-27.122	49.252	10.066	AV
11			0.422	37.514	27.385	-19.894	57.409	10.129	QP
12			0.422	20.319	10.190	-27.090	47.409	10.129	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Spurious Emission

RESULT:**Pass**

Date of testing : 04.03.2017
Test standard : FCC Part 15.247(d)
Test procedure : ANSI C63.10: 2013
Clause 11&12 of KDB 558074 D01 v04
Limit : FCC Part 15.247(d)
FCC Part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM3
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

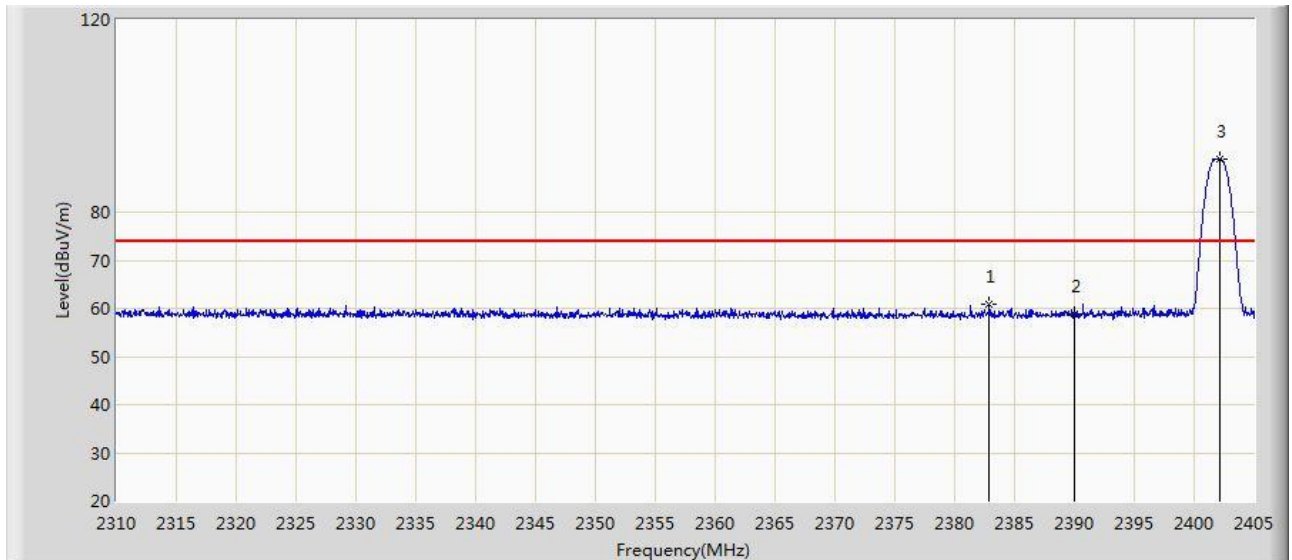
Note: There is no additional emission generated due to simultaneous-transmission operations compared to standalone operations testing

Table 9: Radiated Spurious Emission, TM1 to TM3

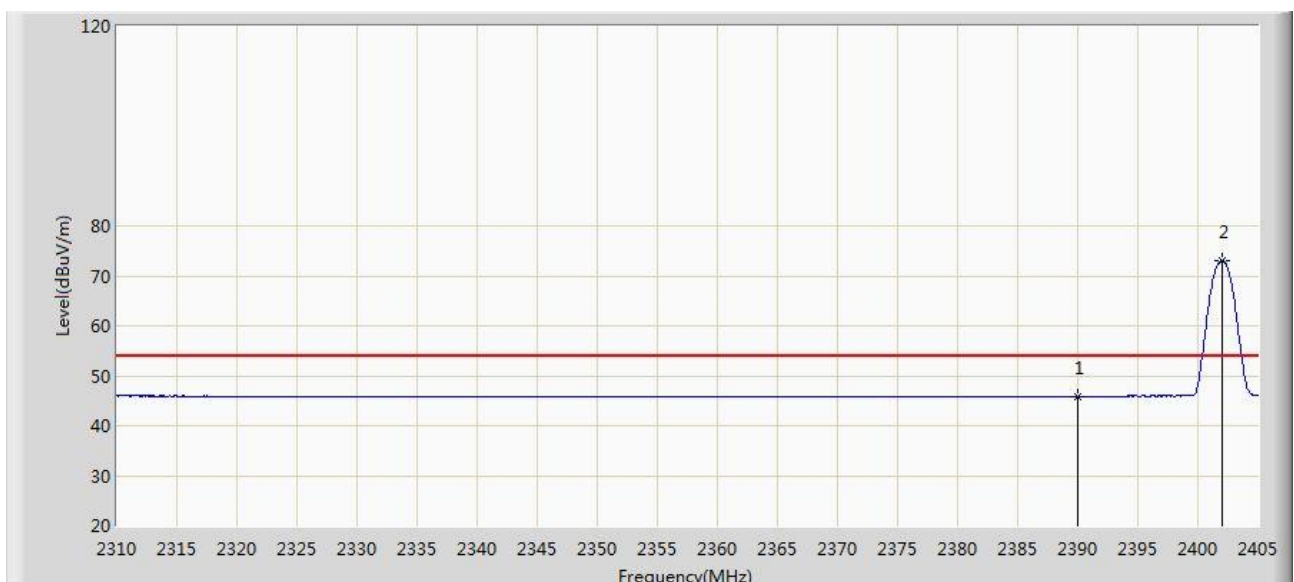
Channel	Freq. [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type	Ant. Pol.
TM1	4859.000	37.577	34.916	-36.423	74.000	2.661	PK	H
	7621.500	44.182	36.133	-29.818	74.000	8.048	PK	H
	8845.500	44.606	35.505	-29.394	74.000	9.101	PK	H
	9891.000	46.325	34.749	-27.675	74.000	11.576	PK	H
	4774.000	37.744	35.100	-36.256	74.000	2.644	PK	V
	7417.500	42.928	34.965	-31.072	74.000	7.964	PK	V
	8641.500	44.942	36.163	-29.058	74.000	8.779	PK	V
TM2	10180.000	48.290	36.548	-25.710	74.000	11.742	PK	V
	4816.500	37.832	35.135	-36.168	74.000	2.697	PK	H
	7477.000	43.566	35.385	-30.434	74.000	8.181	PK	H
	8624.500	45.294	36.514	-28.706	74.000	8.780	PK	H
	9763.500	46.243	34.828	-27.757	74.000	11.415	PK	H
	4876.000	38.011	35.336	-35.989	74.000	2.675	PK	V
	7528.000	43.715	35.415	-30.285	74.000	8.300	PK	V
TM3	8675.500	45.082	36.140	-28.918	74.000	8.942	PK	V
	10333.000	46.478	34.319	-27.522	74.000	12.159	PK	V
	4799.500	37.753	35.055	-36.247	74.000	2.698	PK	H
	7332.500	43.274	35.230	-30.726	74.000	8.044	PK	H
	8743.500	44.659	35.697	-29.341	74.000	8.962	PK	H
	10163.000	46.914	35.241	-27.086	74.000	11.673	PK	H
	4816.500	37.199	34.502	-36.801	74.000	2.697	PK	V
7519.500	43.572	35.277	-30.428	74.000	8.295	PK	V	
8675.500	45.029	36.087	-28.971	74.000	8.942	PK	V	
9806.000	45.255	33.734	-28.745	74.000	11.521	PK	V	

Notes:

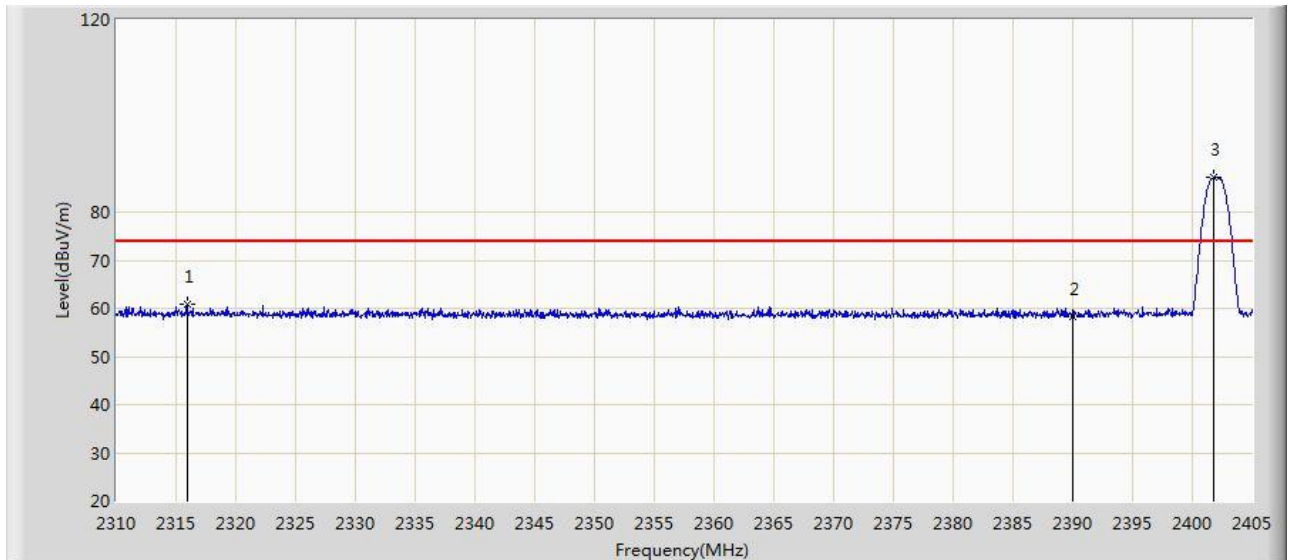
1. Transmit mode comply with the field strength within the restricted bands. There is no spurious found below 30MHz.
2. There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.
3. Due to the peak measure values also meet the average limit (54dBm), the average measurement is not tested based on technical judgment.

Figure 12: Radiated Restricted Band Edge, TM1, Horizontal, PK


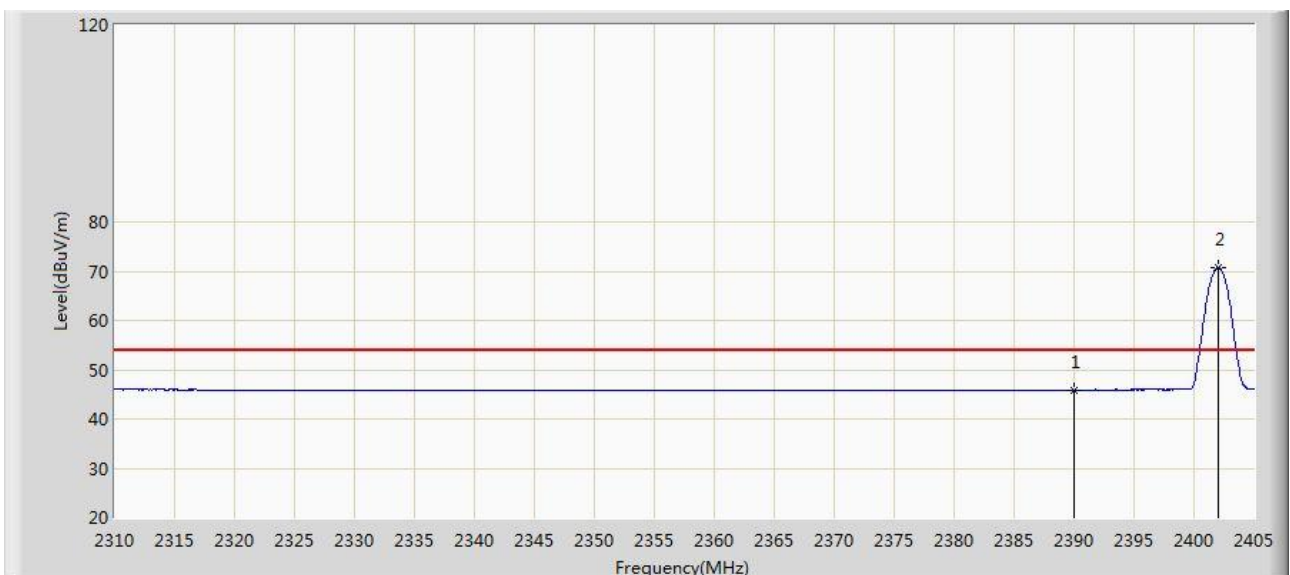
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2382.913	60.893	28.654	-13.107	74.000	32.238	PK
2390.000	58.737	26.459	-15.263	74.000	32.278	PK
2402.150	91.028	58.755	N/A	N/A	32.273	PK

Figure 13: Radiated Restricted Band Edge, TM1, Horizontal, AV


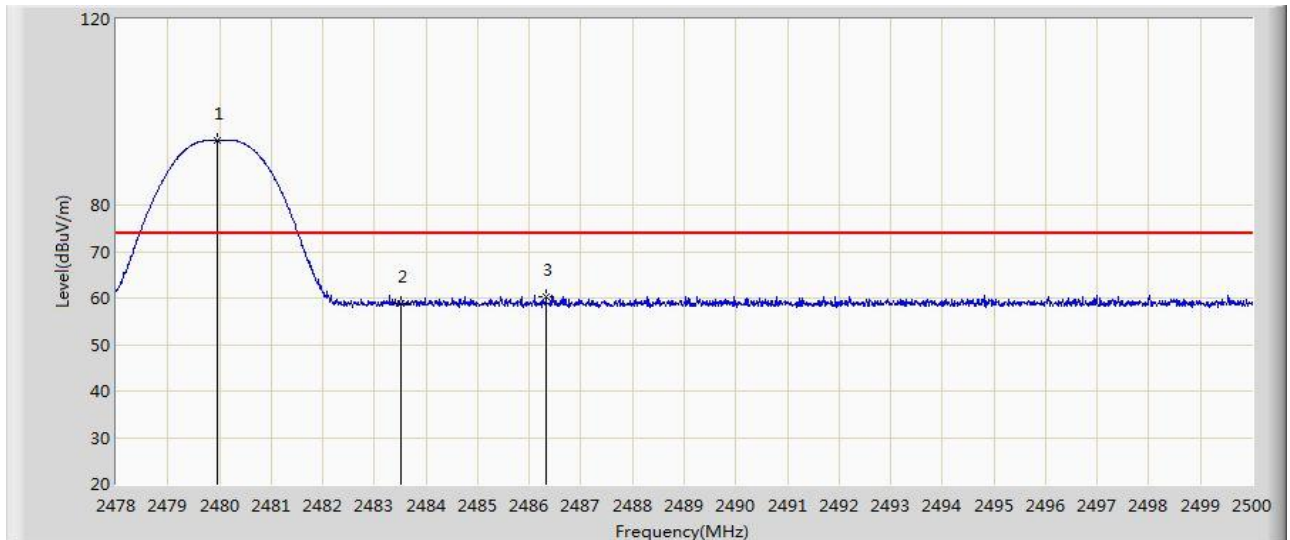
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.831	13.553	-8.169	54.000	32.278	AV
2402.008	73.118	40.844	N/A	N/A	32.274	AV

Figure 14: Radiated Restricted Band Edge, TM1, Vertical, PK


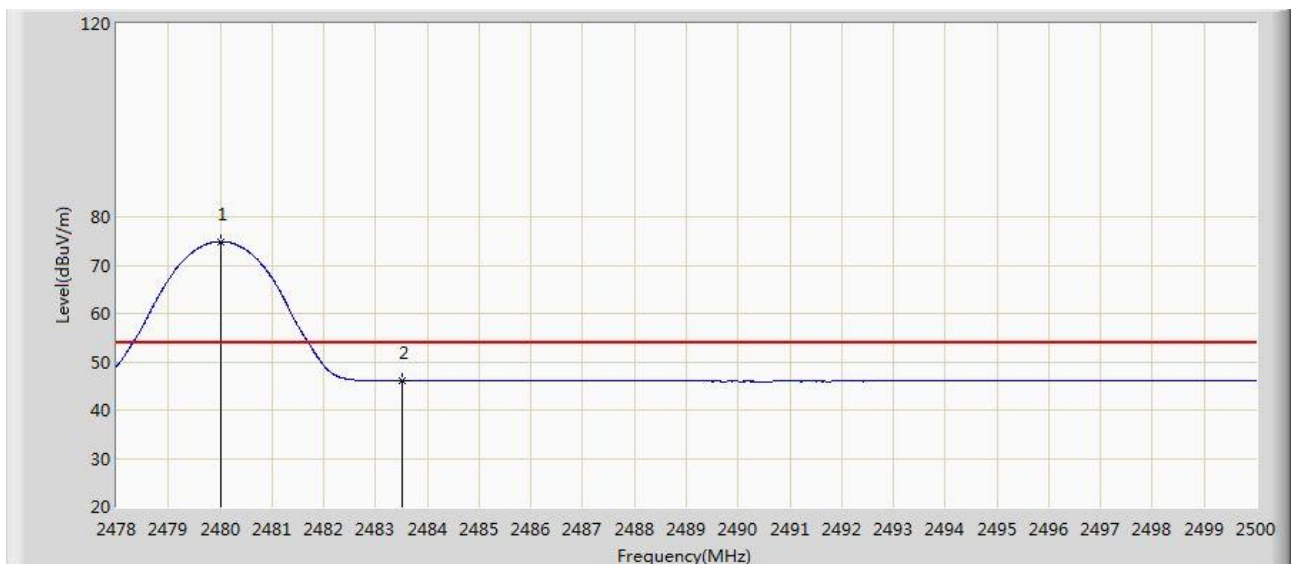
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2315.937	60.790	28.370	-13.210	74.000	32.421	PK
2390.000	58.241	25.963	-15.759	74.000	32.278	PK
2401.817	87.167	54.893	N/A	N/A	32.274	PK

Figure 15: Radiated Restricted Band Edge, TM1, Vertical, AV


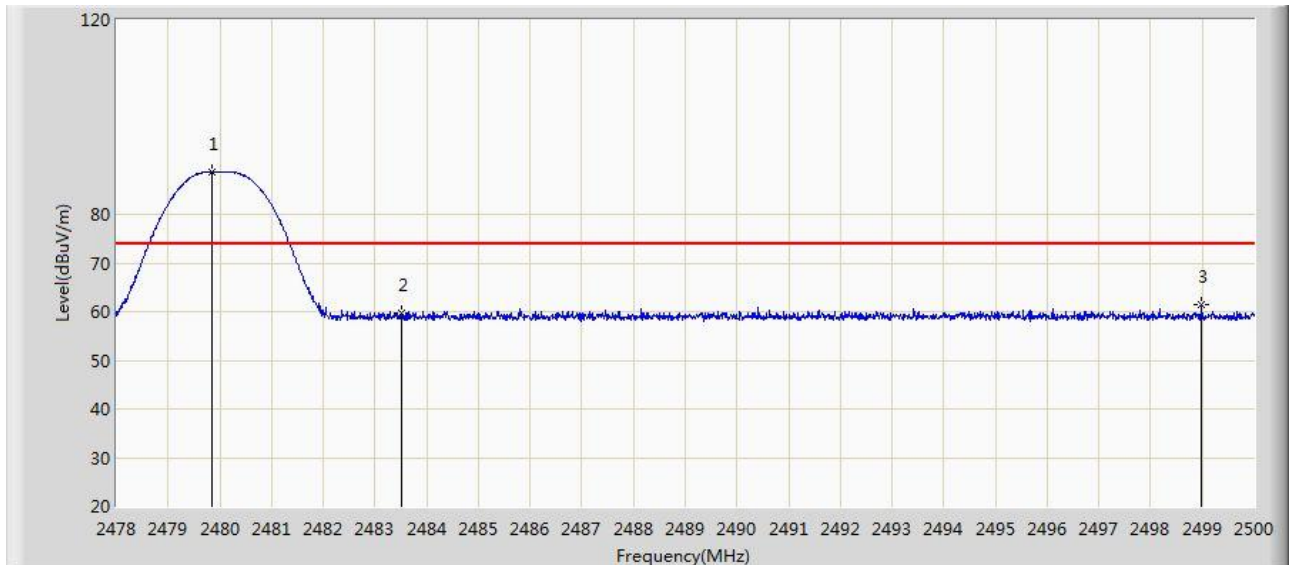
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2390.000	45.871	13.593	-8.129	54.000	32.278	AV
2402.008	70.680	38.406	N/A	N/A	32.274	AV

Figure 16: Radiated Restricted Band Edge, TM3, Horizontal, PK


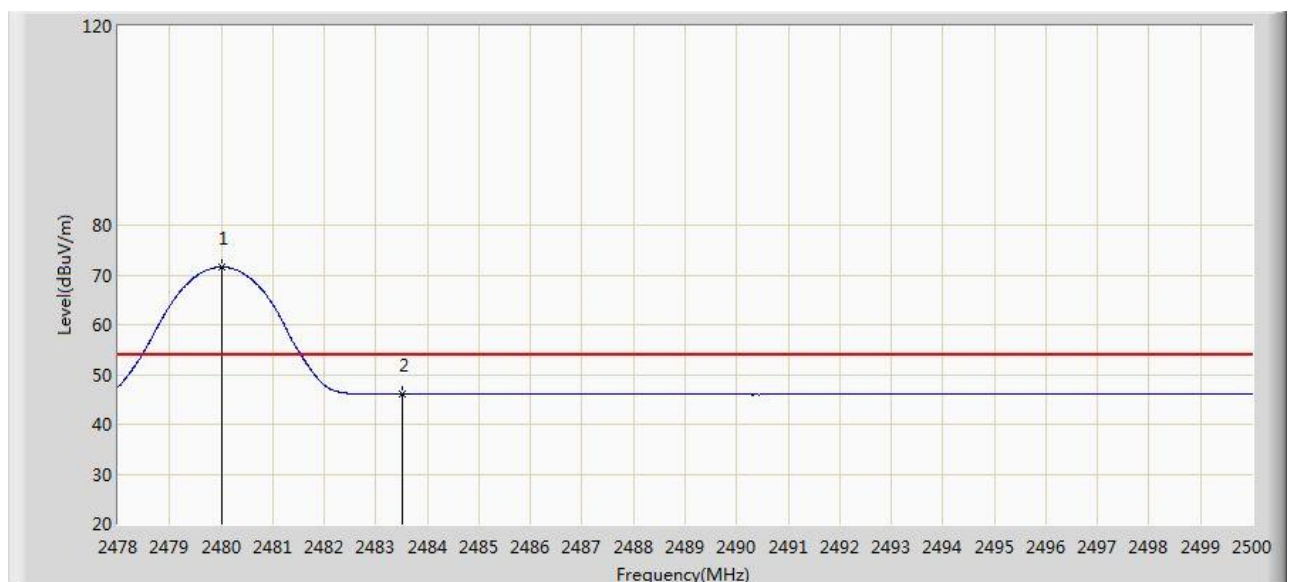
Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.947	93.912	61.643	N/A	N/A	32.269	PK
2483.500	58.820	26.539	-15.180	74.000	32.282	PK
2486.327	60.237	27.946	-13.763	74.000	32.291	PK

Figure 17: Radiated Restricted Band Edge, TM3, Horizontal, AV


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2480.024	74.900	42.631	N/A	N/A	32.269	AV
2483.500	45.985	13.704	-8.015	54.000	32.282	AV

Figure 18: Radiated Restricted Band Edge, TM3, Vertical, PK


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2479.859	88.770	56.501	N/A	N/A	32.269	PK
2483.500	59.584	27.303	-14.416	74.000	32.282	PK
2498.988	61.348	29.033	-12.652	74.000	32.315	PK

Figure 19: Radiated Restricted Band Edge, TM3, Vertical, AV


Frequency [MHz]	Measure Level [dBuV/m]	Reading Level [dBuV]	Over Limit [dB]	Limit [dBuV/m]	Factor [dB]	Type
2480.013	71.583	39.314	N/A	N/A	32.269	AV
2483.500	45.989	13.708	-8.011	54.000	32.282	AV

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