



FCC TEST REPORT (PART 22)

Applicant:	Particle Industries,Inc			
Address:	126 Post St,4th floor, San Francisco,CA 94108 USA			
Manufacturer or Supplier:	Particle Industries,Inc			
Address:	126 Post St,4th floor, San Francisc	co,CA 94108 USA		
Product:	Tracker SoM LTE M1			
Brand Name:	Particle			
Model Name:	T402M/T404M			
FCC ID:	2AEMI-T40X			
Date of tests:	May. 21, 2020 ~ Jun. 09, 2020			
The tests have bee	en carried out according to the requi	rements of the following standard:		
 FCC PART 22, ANSI/TIA/EIA-6 ANSI/TIA/EIA-6	603-D ⊠ ANSI C63.26-2015			
CONCLUSION: The submitted sample was found to COMPLY with the test requirement				
Prepared by Alex Chen Engineer / Mobile Department Approved by Luke Lu Manager / Mobile Department				
	lufe lu			
Da	ate: Jun. 09, 2020	Date: Jun. 09, 2020		
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200520W003-1	Original release	Jun. 09, 2020



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	I IEST TYPE			
2.1046 22.913 (a)	Effective Radiated Power	Compliance		
2.1055 22.355	Frequency Stability	See Note		
2.1049 22.917 (b)	Occupied Bandwidth	See Note		
22.913 (d)	Peak to average ratio*	See Note		
22.917	Band Edge Measurements	See Note		
2.1051 22.917	Conducted Spurious Emissions	See Note		
2.1053 22.917	Radiated Spurious Emissions	Compliance		

^{*} Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

Note: Test data re-use from certified module BG96, BG96 MINIPCIE, more details please refer test report R1811A0536-R1 (FCC ID: XMR201707BG96).

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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	UNCERTAINTY
Maximum Peak Output Power	±2.06dB
Frequency Stability	\pm 76.97Hz
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 24,19	Jun. 23,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 27,20	Mar. 26,21
Horn Antenna (1GHz-18GHz)	ETS-LINDGREN	3117	00168692	Mar. 27,20	Mar. 26,21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361		Nov. 24,19	Nov. 23,20
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 27,20	Feb. 26,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 24,19	Jun. 23,20
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 18,20	May. 17,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SM A	1505	Jun. 24,19	Jun. 23,20
Power Meter	Anritsu	ML2495A	1506002	Feb. 26,20	Feb. 25,21
Power Sensor	Anritsu	MA2411B	1339352	Feb. 26,20	Feb. 25,21
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jun. 24,19	Jun. 23,20
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 11,20	Mar. 10,21
Power Divider	MCLI/USA	PS2-15	24880	Nov. 22, 19	Nov. 21, 20

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

2.1 GENERAL DESCR		1		
EUT	Tracker SoM LTE M1			
BRAND NAME	Particle			
MODEL NAME	T402M/T404M			
POWER SUPPLY	Li+ PIN: DC +3.3V4.3V or Vusb PIN: DC +4.35V5.5V or Vin PIN: DC +3.9V17V			
MODULATION TYPE	GSM/GPRS/EDGE	GMSK, 8PSK		
INODOLATION TIPE	LTE CAT-M1	QPSK, 16QAM		
	GSM/GPRS/EDGE	824.2MHz ~ 848.8MHz		
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz		
FREQUENCY RANGE	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz		
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz		
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz		
	GSM	1439mW		
	EDGE	403mW		
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	202mW		
MAX. ERP POWER	LTE Band 5 (Channel Bandwidth: 3MHz)	203mW		
	LTE Band 5 (Channel Bandwidth: 5MHz)	201mW		
	LTE Band 5 (Channel Bandwidth: 10MHz)	200mW		
	GSM	246KGXW		
	EDGE	249KG7W		
	LTE Band 5	QPSK: 1M11G7D		
	(Channel Bandwidth: 1.4MHz)	16QAM: 947KW7D		
EMISSION	LTE Band 5	QPSK: 1M16G7D		
DESIGNATORGOGN	(Channel Bandwidth: 3MHz)	16QAM: 983KW7D		
	LTE Band 5	QPSK: 1M15G7D		
	(Channel Bandwidth: 5MHz)	16QAM: 1M01W7D		
	LTE Band 5	QPSK:1M20G7D		
	(Channel Bandwidth: 10MHz)	16QAM: 1M05W7D		
ANTENNA TYPE	External Antenna with 1.42dBi gain for GSM 850/ LTE Band 5			
HW VERSION	V1.0			

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SW VERSION	V1.5.4
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. The schematic and PCB of the two models T402M and T404M used by our company for the certification is completely the same ,and the HW&SW used is the same. Because the product is sold in different market using different models eSIM, different models are named. the differences are as follows:T402M uses eSIM of Kore.T404M uses eSIM of Twilio.
- 3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX diversity
LTE	1TX/1RX diversity

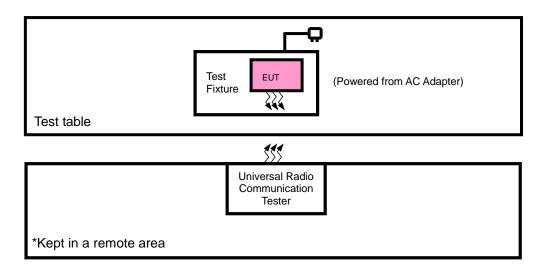
4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION





2.3 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.

N	Ο.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
	1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	1 DC Line: Unshielded, Detachable 1.8m	

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for GSM/GPRS/EDGE /LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
-	EUT + with GSM/ EDGE or LTE link
-	EUT + with GSM/ EDGE or LTE link

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE	
-	ERP	128 to 251	128, 189, 251	GSM, EDGE	
-	RADIATED EMISSION	128 to 251	128, 189, 251	GSM, EDGE	



LTE BAND 5 MODE

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
EDD	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
ERP	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
RADIATED	20415 to 20635	20525	3MHz	QPSK	1 RB / 0 RB Offset
EMISSION	20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V	Tony
RADIATED EMISSION	23deg. C, 70%RH	DC 5V	Tony

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

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2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2
FCC 47 CFR Part 22
KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI/TIA/EIA-603-D
ANSI/TIA/EIA-603-E
ANSI C63.26-2015

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

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3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP = $P_{Meas} + G_{T} - L_{C}$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

 G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Lc = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

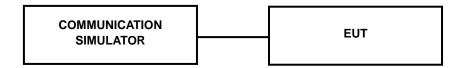
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3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band		GSM850		Max.
Channel	128	189	251	Tune-up
Frequency	824.2	836.6	848.8	Power
GPRS 1Tx Slot	32.37	32.40	32.87	33.0
GPRS 2Tx Slot	32.23	32.32	32.74	33.0
GPRS 3Tx Slot	30.73	30.88	30.74	31.0
GPRS 4Tx Slot	29.26	29.36	29.28	29.5
EDGE 1Tx Slot (MCS9)	25.33	25.33	25.02	25.5
EDGE 2Tx Slot (MCS9)	25.05	25.03	24.75	25.5
EDGE 3Tx Slot (MCS9)	24.86	24.81	24.57	25.0
EDGE 4Tx Slot (MCS9)	24.59	24.49	24.21	25.0

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LTE Band 5

Band/BW	Modulation	RB	RB	Low CH 20407	Mid CH 20525	High CH 20643	Tune
Jana, 211	caaiaiicii	Size	Offset	Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	Up
		1	0	23.19	23.29	23.30	24.0
		1	5	23.18	23.21	23.27	
	QPSK	3	0	23.23	23.24	23.28	24.0
		3	3	23.17	23.21	23.29	
5/ 1.4		6	0	23.25	23.30	23.26	24.0
3/ 1.4		1	0	22.82	22.86	22.90	24.0
		1	5	22.80	22.80	22.88	
	16QAM	3	0	23.06	23.09	23.18	24.0
		3	3	22.91	22.96	22.98	
		6	0	23.12	23.25	23.23	24.0

Band/BW	Modulation	RB	RB	Low CH 20415	Mid CH 20525	High CH 20635	Tune
		Size	Offset	Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz	Up
		1	0	23.21	23.31	23.29	24.0
		1	5	23.14	23.22	23.27	
	QPSK	3	0	23.19	23.24	23.28	24.0
		3	3	23.16	23.24	23.29	
5/ 3		6	0	23.18	23.30	23.28	24.0
3/3		1	0	22.79	22.92	22.93	24.0
		1	5	22.77	22.83	22.86	
	16QAM	3	0	23.09	23.09	23.18	24.0
		3	3	22.87	22.97	22.98	
		6	0	23.17	23.20	23.26	24.0



Band/BW	Modulation	RB Size	RB Offset	Low CH 20425 Frequency 826.5 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20625 Frequency 846.5 MHz	Tune Up
		1	0	23.22	23.26	23.30	24.0
		1	5	23.19	23.19	23.27	
	QPSK	3	0	23.20	23.23	23.32	24.0
		3	3	23.19	23.24	23.26	
5/ 5		6	0	23.18	23.31	23.29	24.0
3/ 3		1	0	22.80	22.88	22.93	24.0
		1	5	22.74	22.86	22.85	
	16QAM	3	0	23.09	23.09	23.17	24.0
		3	3	22.87	22.95	22.95	
		6	0	23.14	23.24	23.22	24.0

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450 Frequency 829 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20600 Frequency 844 MHz	Tune Up
		1	0	23.27	23.33	23.35	24.0
		1	5	23.21	23.27	23.29	
	QPSK	3	0	23.25	23.31	23.33	24.0
		3	3	23.23	23.29	23.31	
5/ 10		6	0	23.26	23.32	23.34	24.0
5/ 10		1	0	22.87	22.93	22.95	24.0
	16QAM	1	5	22.82	22.88	22.90	
		3	0	23.11	23.17	23.19	24.0
		3	3	22.95	23.01	23.03	
		6	0	23.20	23.26	23.28	24.0

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ERP POWER (dBm)

GSM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	32.25	1.42	31.52	1419.06	7
189	836.4	32.28	1.42	31.55	1428.89	7
251	848.8	32.31	1.42	31.58	1438.80	7

EDGE

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
128	824.2	26.58	1.42	25.85	384.59	7
189	836.4	26.65	1.42	25.92	390.84	7
251	848.8	26.78	1.42	26.05	402.72	7

REMARKS: 1. ERP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB) -2.15(dB). 2. Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss

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LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.66	1.42	21.93	155.96	7
20525	836.5	23.15	1.42	22.42	174.58	7
20643	848.3	23.21	1.42	22.48	177.01	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.79	1.42	23.06	202.3	7
20525	836.5	23.20	1.42	22.47	176.6	7
20643	848.3	23.14	1.42	22.41	174.18	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.70	1.42	21.97	157.4	7
20525	836.5	23.16	1.42	22.43	174.98	7
20635	847.5	23.24	1.42	22.51	178.24	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.81	1.42	23.08	203.24	7
20525	836.5	23.25	1.42	22.52	178.65	7
20635	847.5	23.16	1.42	22.43	174.98	7

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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.68	1.42	21.95	156.68	7
20525	836.5	23.12	1.42	22.39	173.38	7
20625	846.5	23.22	1.42	22.49	177.42	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.76	1.42	23.03	200.91	7
20525	836.5	23.20	1.42	22.47	176.6	7
20625	846.5	23.14	1.42	22.41	174.18	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.65	1.42	21.92	155.6	7
20525	836.5	23.08	1.42	22.35	171.79	7
20600	844.0	23.19	1.42	22.46	176.2	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	23.74	1.42	23.01	199.99	7
20525	836.5	23.16	1.42	22.43	174.98	7
20600	844.0	23.09	1.42	22.36	172.19	7

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3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

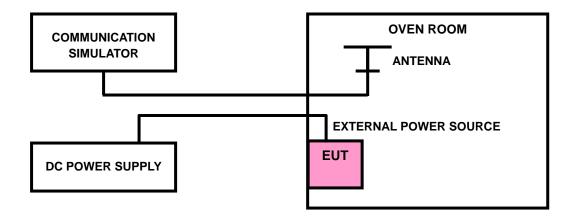
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





3.2.4 TEST RESULTS

The test results was recorded in Report No.: R1811A0536-R1 (FCC ID: XMR201707BG96).

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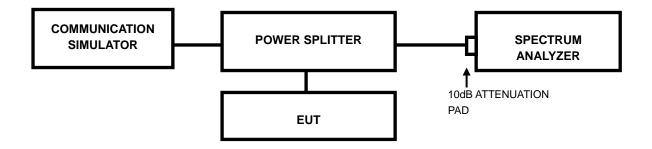


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.2 TEST SETUP





3.3.3 TEST RESULTS

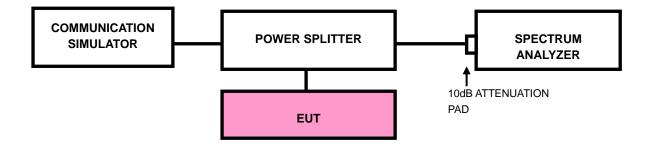
The test results was recorded in Report No.: R1811A0536-R1 (FCC ID: XMR201707BG96).

3.4 **BAND EDGE MEASUREMENT**

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (GSM/GPRS/ EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 20kHz and VBW of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz)
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 50kHz and VBW of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. Record the max trace plot into the test report.

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3.4.4 TEST RESULTS

The test results was recorded in Report No.: R1811A0536-R1 (FCC ID: XMR201707BG96).

3.5 CONDUCTED SPURIOUS EMISSIONS

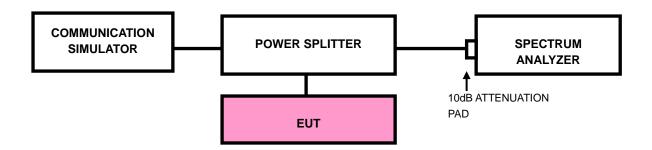
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9 kHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

The test results was recorded in Report No.: R1811A0536-R1 (FCC ID: XMR201707BG96).

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3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

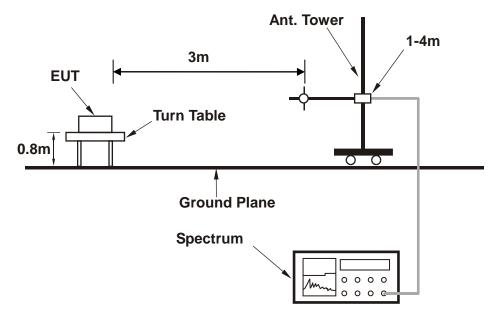
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

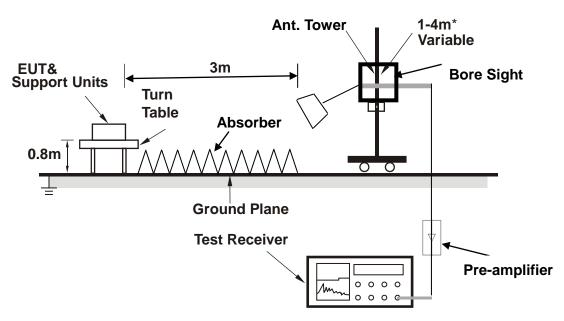


3.6.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

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3.6.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

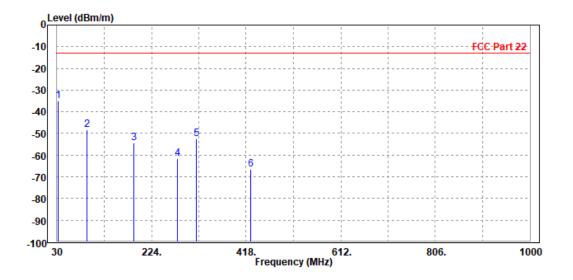
30 MHz - 1GHz data:

LTE Band 5

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	32.250	-35.07	-52.13	-13.00	-22.07	17.06	Peak	Horizontal
2	91.210	-48.25	-40.22	-13.00	-35.25	-8.03	Peak	Horizontal
3	188.360	-54.45	-38.65	-13.00	-41.45	-15.80	Peak	Horizontal
4	277.150	-61.43	-48.62	-13.00	-48.43	-12.81	Peak	Horizontal
5	316.250	-52.62	-41.64	-13.00	-39.62	-10.98	Peak	Horizontal
6	427.460	-66.37	-58.65	-13.00	-53.37	-7.72	Peak	Horizontal

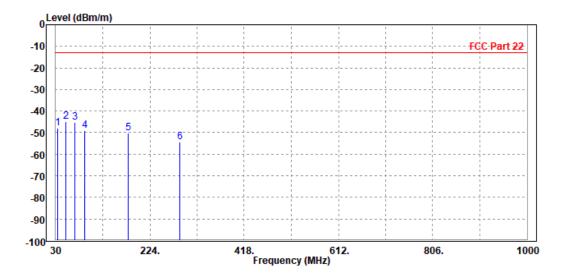


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MODE	TX channel 20525	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V			
TESTED BY	Tony	Tony				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level	Read Level		Over Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	33.470	-48.08	-49.62	-13.00	-35.08	1.54	Peak	Vertical
2 PP	50.470	-44.82	-40.75	-13.00	-31.82	-4.07	Peak	Vertical
3	68.950	-45.31	-31.26	-13.00	-32.31	-14.05	Peak	Vertical
4	89.750	-48.87	-39.62	-13.00	-35.87	-9.25	Peak	Vertical
5	178.650	-50.08	-38.47	-13.00	-37.08	-11.61	Peak	Vertical
6	286.350	-54.44	-45.24	-13.00	-41.44	-9.20	Peak	Vertical





ABOVE 1GHz DATA

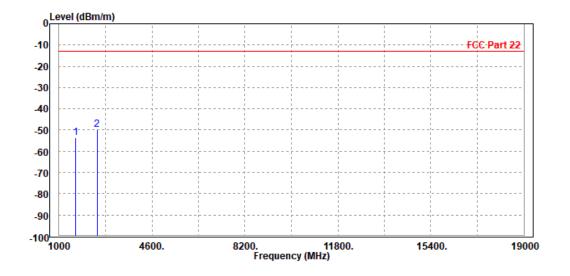
Note: For higher frequency, the emission is too low to be detected.

GSM 850

CH 128:

MODE	DE TX channel 128		Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

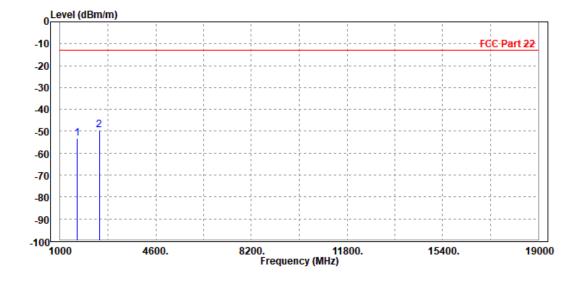
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	_							
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1648.000	-53.75	-57.00	-13.00	-40.75	3.25	Peak	Horizontal
_								nor izoneai
2 PP	2472.600	-49.84	-57.86	-13.00	-36.84	8.02	Peak	Horizontal





MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony	Tony						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	1648.000 2472.600							Vertical Vertical

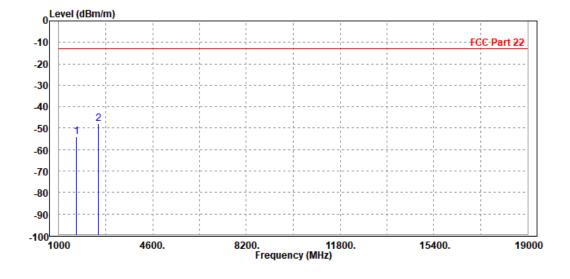




CH 189:

MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony	Гопу						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1666.000	-53.86	-57.33	-13.00	-40.86	3.47	Peak	Horizontal
2 PP	2509.200	-48.06	-56.12	-13.00	-35.06	8.06	Peak	Horizontal

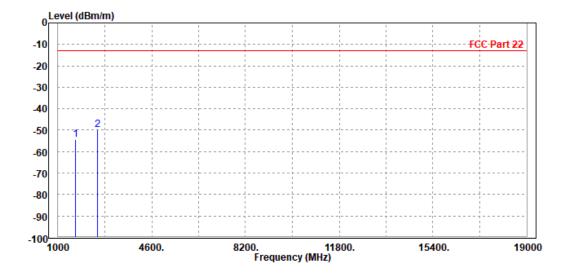


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MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH INPUT POWER		DC 5V					
TESTED BY	Tony	Гопу						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

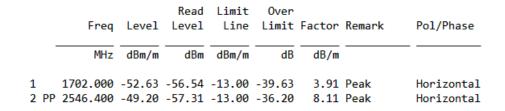
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	1666.000 2509.200							Vertical Vertical

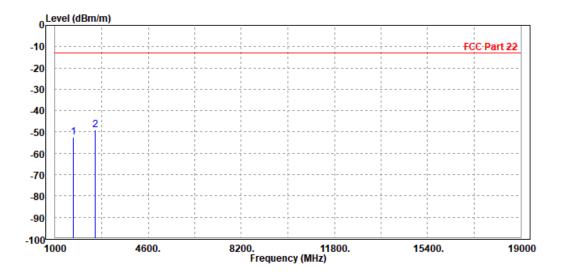




CH 251:

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/11V/12/20V from adapter			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



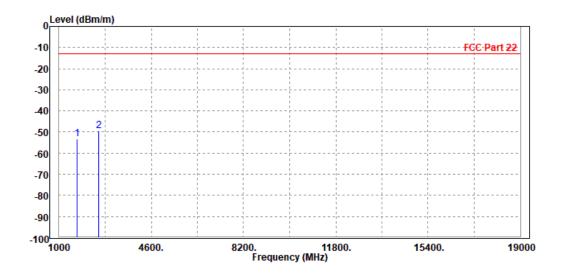


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MODE TX channel 251		FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH INPUT POWER		DC 5V					
TESTED BY	Tony	Tony						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	1702.000 2546.400							Vertical Vertical

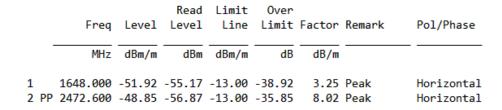


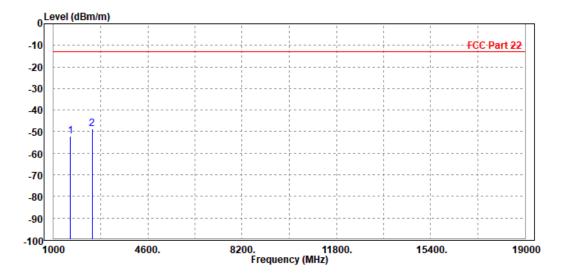


EDGE 850:

CH 128:

MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony Xiong							
ANTENN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

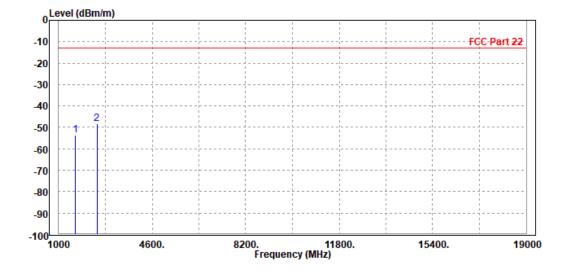






MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter					
TESTED BY	Tony Xiong							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	1648.000 2472.600							Vertical Vertical

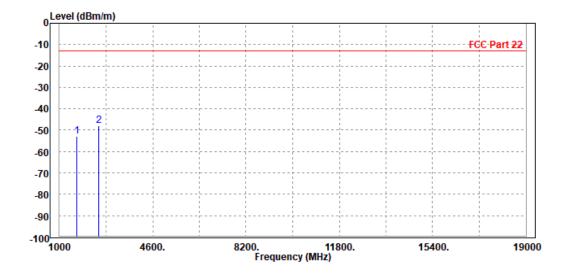




CH 189:

MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter					
TESTED BY	Tony Xiong							
ANTENN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

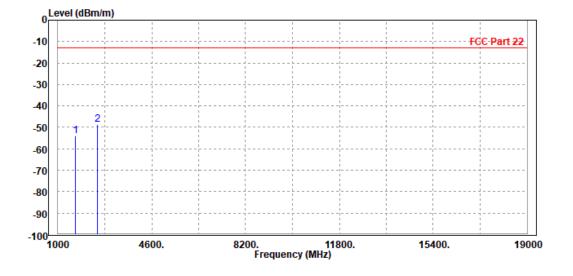
	Freq	Read Limit Over eq Level Level Line Limit Facto		Factor	Remark	Pol/Phase		
	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		_
1 2 PF	1666.000 2509.200							Horizontal Horizontal





MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter					
TESTED BY	Tony Xiong							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	1666.000 2509.200							Vertical Vertical

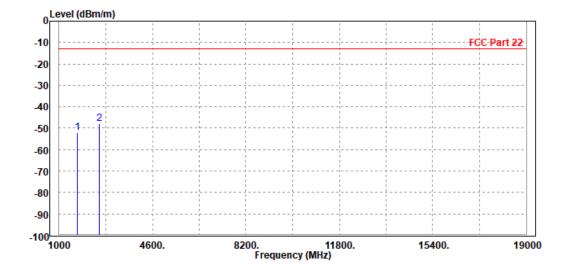




CH 251:

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony Xiong		
ANTENN	A POLARITY & TEST DIST	ANCE: HORIZONTAL AT	3 M

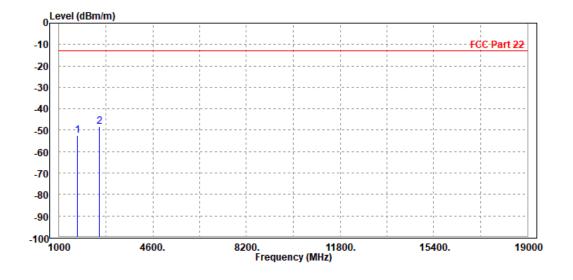
Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 1702.000 2 PP 2546.400							Horizontal Horizontal





MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Tony Xiong						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
								-
-	MHz	dRm/m	dBm	dRm/m		dB/m		
	11112	ubili/ ili	ubili	ubili/ ili	ub	ub/III		
1	1702.000	-52.31	-56.18	-13.00	-39.31	3.87	Peak	Vertical
2 PP	2546.400	-48.10	-55.32	-13.00	-35.10	7.22	Peak	Vertical



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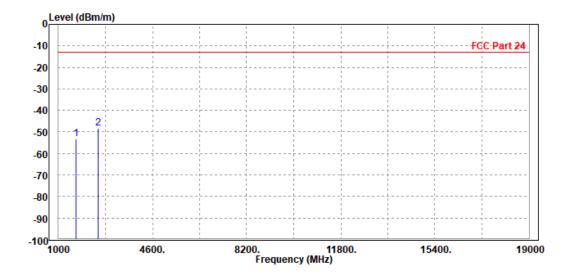


LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

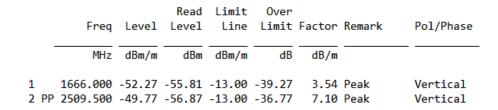
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz						
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V						
TESTED BY	Tony								
ANTEN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

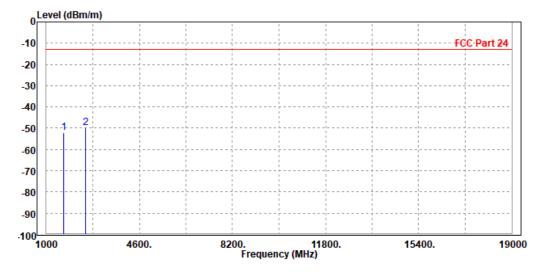
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	1666.000 2509.500							Horizontal Horizontal





MODE	TX channel 20525	nel 20525 FREQUENCY RANGE						
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								



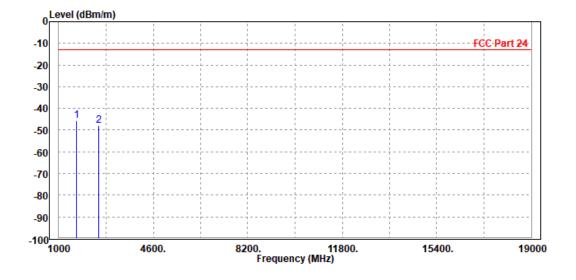




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	1666.000 2509.500							Horizontal Horizontal

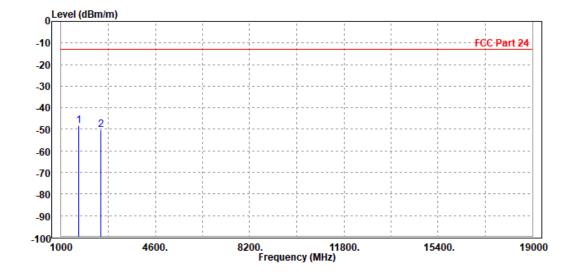


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MODE	TX channel 20525	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1666.000 2509.500							Vertical Vertical

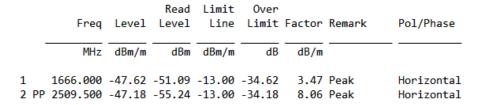


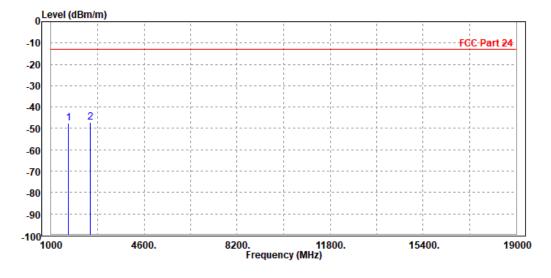
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CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V					
TESTED BY	Tony							
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								



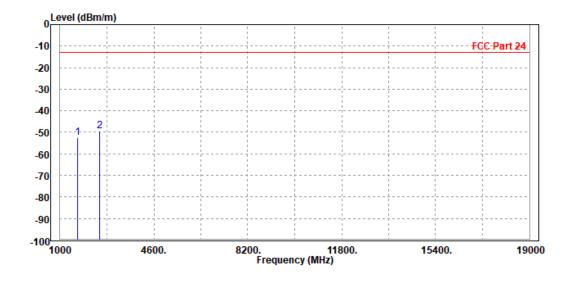


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MODE	TX channel 20525	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

Fred	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 1666.000 2 PP 2509.500							Vertical Vertical



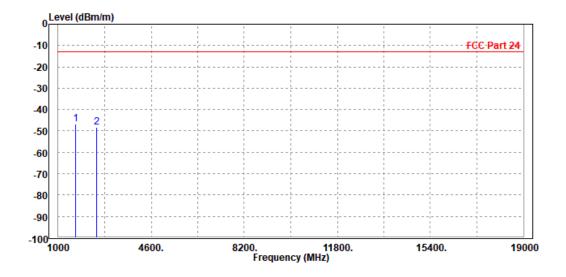


CHANNEL BANDWIDTH: 10MHz/QPSK

CH 20450

MODE	TX channel 20450	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

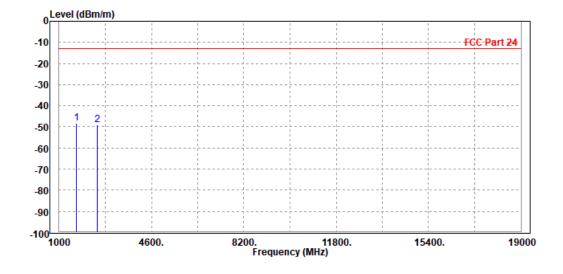
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	1666.000 2487.000							Horizontal Horizontal





MODE	TX channel 20450	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V				
TESTED BY	Tony						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 1666.000 2 2487.000							Vertical Vertical

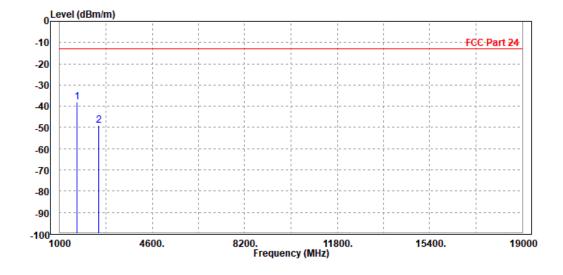




CH 20525

MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH INPUT POWER		DC 5V			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

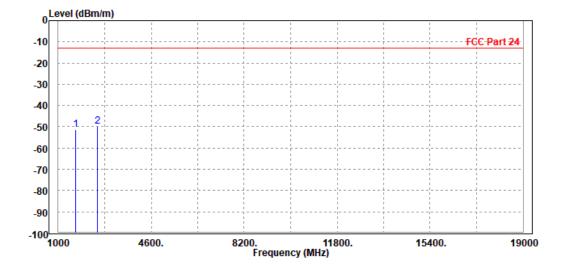
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-38.21	-41.68	-13.00	-25.21	3.47	Peak	Horizontal
2	2509.500	-48.98	-57.04	-13.00	-35.98	8.06	Peak	Horizontal
_								





MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 1666.000 2 PP 2509.500							Vertical Vertical

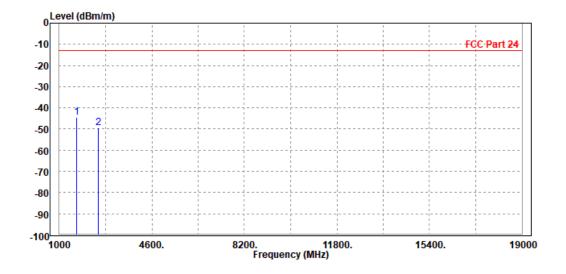




CH 20600

MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

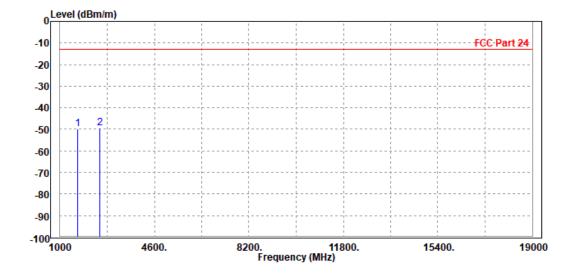
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	1684.000 2532.000							Horizontal Horizontal





MODE	TX channel 20600	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V			
TESTED BY	Tony					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 1684 2 PP 2532				-13.00 -13.00				Vertical Vertical



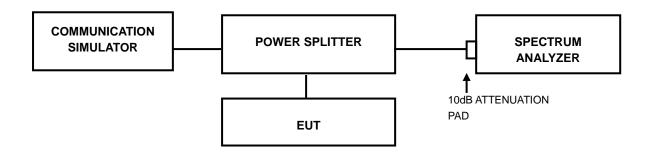


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

The test results was recorded in Report No.: R1811A0536-R1 (FCC ID: XMR201707BG96).

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PHOTOGRAPHS OF THE TEST CONFIGURATION

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



5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

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

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6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING **CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

---END---

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