

FCC TEST REPORT (PART 27)

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 Francis	co, CA 94108 USA		
Product:	Boron LTE			
Brand Name:	Particle Industries, Inc			
Model Name:	BRN402	BRN402		
FCC ID:	2AEMI-BRN402			
Date of tests:	Oct. 09, 2018 ~ Nov. 08, 2018			
The tests have been carried out according to the requirements of the following standard:				
 FCC Part 27, S FCC Part 2		03- D 3-E ⊠ ANSI C63.26-2015		
CONCLUSION: Th	e submitted sample was found to C	OMPLY with the test requirement		
Prepared by Roger Li Engineer / Mobile Department Approved by Sam Tung Manager / Mobile Department				
Roger		M		
Date: Nov. 09, 2018 Date: Nov. 09, 2018				
		t the date of issuance of this report at natended for your exclusive use. Any copying or replication of this report to or for any other person or ort sets forth our findings solely with respect to the test samples identified herein. The results set forth		

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF181008W004-3	Original release	Nov. 09, 2018

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2				
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK	
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.	
2.1055 27.54	Frequency Stability	N/A(see note)	Meet the requirement of limit.	
2.1049 27.53(h)	Occupied Bandwidth	N/A(see note)	Meet the requirement of limit.	
27.50(d)(5)	Peak to average ratio	N/A(see note)	Meet the requirement of limit.	
27.53(h)	Band Edge Measurements	N/A(see note)	Meet the requirement of limit.	
2.1051 27.53(h)	Conducted Spurious Emissions	N/A(see note)	Meet the requirement of limit.	
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -9.26dB at 1564.000MHz.	

Note: The product Particle BRN402 is fully integrated the LTE Cat-M1 Module SARA-R410M (FCC ID: XPY2AGQN4NNN), no other modification on the LTE Cat-M1 Module radio parameter such as power, frequency range, modulation etc., for this report only test Effective Radiated Power and Radiated Spurious Emissions, other test data are copied from the module report. Please refer to this report for details.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT FREQUENCY		UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.66dB
	9KHz ~ 30MHz	2.68dB
Radiated emissions	30MHz ~ 1GMHz	3.26dB
Radiated emissions	1GHz ~ 18GHz	4.48dB
	18GHz ~ 40GHz	4.12dB

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	Mar. 16,18	Mar. 15,19
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Mar. 16,18	Mar. 15,19
Bilog Antenna 1	ETS-LINDGREN	3143B	00161964	Nov. 26,16	Nov. 25,18
Bilog Antenna 2	ETS-LINDGREN	3143B	00161965	Nov. 26,16	Nov. 25,18
Horn Antenna 1	ETS-LINDGREN	3117	00168728	Nov. 26,16	Nov. 25,18
Horn Antenna 2	ETS-LINDGREN	3117	00168692	Nov. 26,16	Nov. 25,18
Loop antenna	Daze	ZN30900A	0708	Nov. 20,17	Nov. 19,18
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40 -K-SG/QMS-00 361		Dec. 16,16	Dec. 15,18
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Mar. 02,18	Mar. 01,19
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jul. 09,18	Jul. 08,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Apr. 21,18	Apr. 20,19
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	Jul. 09,18	Jul. 08,19
Power Meter	Anritsu	ML2495A	1506002	Mar. 02,18	Mar. 01,19
Power Sensor	Anritsu	MA2411B	1339352	Mar. 16,18	Mar. 15,19
Humid & Temp Programmable Tester	Juyi	ITH-120-45-CP -AR	IAA1504-001	Jul. 09,18	Jul. 08,19
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 13,18	Mar. 12,19

NOTE: 1. The calibration interval of the above test instruments is 12 months or 24 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

PRODUCT	Boron LTE		
MODEL NAME	BRN402		
POWER SUPPLY	5.0Vdc (Adapter) 3.7Vdc (Li-ion, battery)		
MODULATION TECHNOLOGY	LTE QPSK, 16QAM		
	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz	
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz	
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz	
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~ 1750.0MHz	
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5MHz	
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~ 1745.0MHz	
TREGUENOT NAME	LTE Band 12 Channel Bandwidth: 1.4MHz	699.7MHz ~ 715.3MHz	
	LTE Band 12 Channel Bandwidth: 3MHz	700.5MHz ~ 714.5MHz	
	LTE Band 12 Channel Bandwidth: 5MHz	701.5MHz ~ 713.5MHz	
	LTE Band 12 Channel Bandwidth: 10MHz	704.0MHz ~ 711.0MHz	
	LTE Band 13 Channel Bandwidth: 5MHz	779.5MHZ ~ 784.5MHZ	
	LTE Band 13 Channel Bandwidth: 10MHz	782.0MHZ	
	LTE Band 4	QPSK: 1M24G7D	
		16QAM: 1M13W7D	
EMISSION	LTE Band 12	QPSK: 1M14G7D	
DESIGNATOR		16QAM: 1M14W7D	
	LTE Band 13	QPSK: 1M14G7D	
	LIL Ballu 13	16QAM: 1M21W7D	

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LTE Donal 4	
LTE Band 4 Channel Bandwidth: 1.4MHz	
LTE Band 4 Channel Bandwidth: 3MHz	
LTE Band 4 Channel Bandwidth: 5MHz	
LTE Band 4 Channel Bandwidth: 10MHz 181mW	
LTE Band 4 Channel Bandwidth: 15MHz	
MAX. ERP/EIRP Channel Bandwidth: 20MHz 145mW	
LTE Band 12 Channel Bandwidth: 1.4MHz	
LTE Band 12 Channel Bandwidth: 3MHz	
LTE Band 12 Channel Bandwidth: 5MHz 84mW	
LTE Band 12 Channel Bandwidth: 10MHz 76mW	
LTE Band 13 Channel Bandwidth: 5MHz	
LTE Band 13 Channel Bandwidth: 10MHz	
LTE Band 4 Fixed External Antenna with 3	.5dBi
ANTENNA TYPE LTE Band 12/ LTE Band 13 Fixed External Antenna with 1	dBi
HW VERSION V1.00	
SW VERSION V0.8.0	
ACCESSORY DEVICE Refer to note as below	
DATA CABLE N/A	

NOTE:

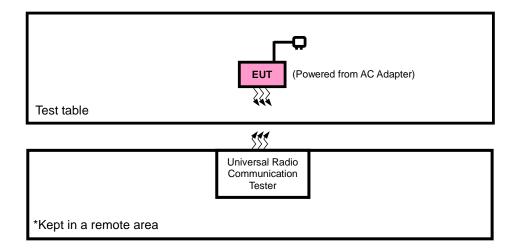
- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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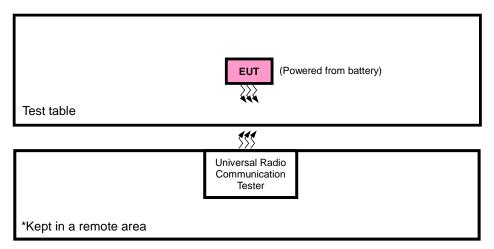


2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR CONDUCTED & E.R.P./E.I.R.P TEST



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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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A
3	USB	N/A	N/A	N/A	N/A
4	Battery	N/A	N/A	N/A	N/A
5	Adapter	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m
3	N/A
4	N/A
5	N/A

NOTE:

2.4 DESCRIPTION OF TEST MODES

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/EIRP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
Α	EUT + Adapter + USB Cable with LTE link
В	EUT + Battery with LTE link

^{1.} All power cords of the above support units are non shielded (1.8m).



LTE BAND 4

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
Ь	EIRF	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19957 to 20393	19957, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20385	3MHz	QPSK	1 RB / 0 RB Offset
В	FREQUENCY	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB / 0 RB Offset
Ь	STABILITY	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20300	20MHz	QPSK	1 RB / 0 RB Offset
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
В	OCCUPIED	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
В	BANDWIDTH	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	PEAK TO	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	AVERAGE RATIO	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
			19957	1.4MHz	QPSK	1 RB / 0 RB Offset
		19957 to 20393				6 RB / 0 RB Offset
			20393	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
			19965	3MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385				15 RB / 0 RB Offset
			20385	3MHz	QPSK	1 RB / 14 RB Offset
В	BAND EDGE					15 RB / 0 RB Offset
			19975	5MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375				25 RB / 0 RB Offset
			20375	5MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
			20000	10MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350				50 RB / 0 RB Offset
			20350	10MHz	QPSK	1 RB / 49 RB Offset
						50 RB / 0 RB Offset

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-						
			20025	15MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20020	TOWNIE	QFSK	75 RB / 0 RB Offset
		20025 10 20325		45MH-	ODCK	1 RB / 74 RB Offset
В	BAND FDGF		20325 15MHz		QPSK	75 RB / 0 RB Offset
В	BAND EDGE		20050	20MHz	ODCK	1 RB / 0 RB Offset
		00050 +- 00000	20030	20WI 12	QPSK	100 RB / 0 RB Offset
		20050 to 20300	00000	00041.1-	ODOK	1 RB / 99 RB Offset
		20300 201	20MHz	QPSK	100 RB / 0 RB Offset	
		19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK	1 RB / 0 RB Offset
В	CONDCUDETED	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB / 0 RB Offset
	EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB / 0 RB Offset
		19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
Α	RADIATED	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
^	EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	20MHz	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.

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LTE BAND 12

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
В	ERP	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
5	LIXI	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		23017 to 23173	23017, 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
В	FREQUENCY	23025 to 23165	23025, 23165	3MHz	QPSK	1 RB / 0 RB Offset
5	STABILITY	23035 to 23155	23035, 23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23130	10MHz	QPSK	1 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
В	OCCUPIED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
В	BANDWIDTH	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	B PEAK TO AVERAGE RATIO	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
			23017	1.4MHz	ODOK	1 RB / 0 RB Offset
		22017 to 22172	23017	1.4101112	QPSK	6 RB / 0 RB Offset
		23017 to 23173	00470	4 48411-	ODOK	1 RB / 5 RB Offset
			23173 1.4MHz		QPSK	6 RB / 0 RB Offset
			23025	3MHz	0,0014	1 RB / 0 RB Offset
		00005 +- 00405	23023	SIVII IZ	QPSK	15 RB / 0 RB Offset
		23025 to 23165	23165	3MHz	ODSK	1 RB / 14 RB Offset
	DAND EDGE		25105	SIVII IZ	QPSK	15 RB / 0 RB Offset
В	BAND EDGE		23035	5MHz	0,0014	1 RB / 0 RB Offset
		00005 +- 00455	23033	SIVII IZ	QPSK	25 RB / 0 RB Offset
		23035 to 23155	00455	EMIL.	ODOK	1 RB / 24 RB Offset
			23155	5MHz	QPSK	25 RB / 0 RB Offset
			23060	10MHz	ODCK	1 RB / 0 RB Offset
		00000 1- 00400	23000	TOMINZ	QPSK	50 RB / 0 RB Offset
		23060 to 23130	00400	40141-	ODOK	1 RB / 49 RB Offset
			23130	10MHz	QPSK	50 RB / 0 RB Offset
		23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK	1 RB / 0 RB Offset
В	CONDCUDETED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK	1 RB / 0 RB Offset
٥	EMISSION	23035 to 23155	23035, 23095 ,23155	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK	1 RB / 0 RB Offset
		23017 to 23173	23095	1.4MHz	QPSK	1 RB / 0 RB Offset
А	RADIATED	23025 to 23165	23025, 23095 ,23165	3MHz	QPSK	1 RB / 0 RB Offset
^	EMISSION	23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23095	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.

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LTE BAND 13

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
В	ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	LIVI	23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	FREQUENCY	23205 to 23255	23205, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	STABILITY	23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	OCCUPIED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
В	BANDWIDTH	23230	23230	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
В	PEAK TO	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
В	AVERAGE RATIO	23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
			23205 5MHz		QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		23205 to 23255				1 RB / 24 RB Offset
			23255	5MHz	QPSK	25 RB / 0 RB Offset
В	BAND EDGE		00000	40141-	ODOK	1 RB / 0 RB Offset
		00000	23230	10MHz	QPSK	50 RB / 0 RB Offset
		23230	23230	10MHz	0.0014	1 RB / 49 RB Offset
			23230	TOMHZ	QPSK	50 RB / 0 RB Offset
В	CONDCUDETED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
ь	EMISSION	23230	23230	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
Α	RADIATED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB / 0 RB Offset
А	EMISSION	23230	23230	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 CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	3.7Vdc from Battery	Star Le
FREQUENCY STABILITY	24deg. C, 61%RH	DC 3.3V/5V/5.5V	Rain Wang
OCCUPIED BANDWIDTH	24deg. C, 61%RH	3.7Vdc from Battery	Rain Wang
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	3.7Vdc from Battery	Rain Wang
BAND EDGE	24deg. C, 61%RH	3.7Vdc from Battery	Rain Wang
CONDCUDETED EMISSION	24deg. C, 61%RH	3.7Vdc from Battery	Rain Wang
RADIATED EMISSION	24deg. C, 60%RH	5Vdc from adapter	Star Le

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2.5 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 27
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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TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 699-716 MHz bands are limited to 3 watts ERP.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power 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.
- c. 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
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn
- e. E.R.P = E.I.R.P- 2.15 dB

CONDUCTED POWER MEASUREMENT:

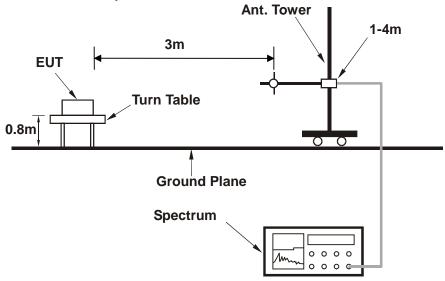
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



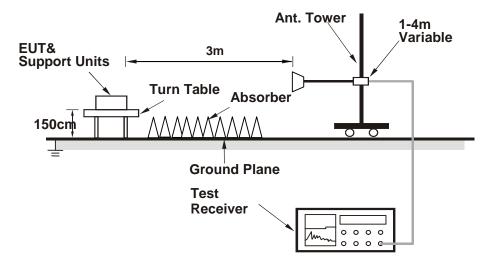
3.1.3 TEST SETUP

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

CONDUCTED POWER MEASUREMENT:



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3.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

The test results were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.

EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-19.84	41.29	21.45	139.77	Н	1
20175	1732.5	-20.39	41.36	20.97	125.03	Н	1
20393	1754.3	-19.93	42.74	22.81	190.90	Н	1
19957	1710.7	-37.92	44.25	6.33	4.29	V	1
20175	1732.5	-36.95	44.20	7.25	5.31	V	1
20393	1754.3	-36.62	44.09	7.47	5.58	V	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-20.71	41.29	20.58	114.39	Н	1
20175	1732.5	-21.32	41.36	20.04	100.93	Н	1
20393	1754.3	-20.89	42.74	21.85	153.04	Н	1
19957	1710.7	-38.79	44.25	5.46	3.51	V	1
20175	1732.5	-37.88	44.20	6.32	4.29	V	1
20393	1754.3	-37.58	44.09	6.51	4.47	V	1



LTE BAND 4

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-19.82	41.27	21.45	139.54	Н	1
20175	1732.5	-20.45	41.36	20.91	123.31	Н	1
20385	1753.5	-19.88	42.76	22.88	193.95	Н	1
19965	1711.5	-37.90	44.26	6.36	4.33	V	1
20175	1732.5	-37.01	44.20	7.19	5.24	V	1
20385	1753.5	-36.57	44.23	7.66	5.84	V	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-20.89	41.27	20.38	109.07	Н	1
20175	1732.5	-21.34	41.36	20.02	100.46	Н	1
20385	1753.5	-20.87	42.76	21.89	154.42	Н	1
19965	1711.5	-38.97	44.26	5.29	3.38	V	1
20175	1732.5	-37.90	44.20	6.30	4.27	V	1
20385	1753.5	-37.56	44.23	6.67	4.65	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-19.88	41.39	21.51	141.55	Н	1
20175	1732.5	-20.40	41.36	20.96	124.74	Н	1
20375	1752.5	-19.83	42.63	22.80	190.50	Н	1
19975	1712.5	-37.96	44.17	6.21	4.17	V	1
20175	1732.5	-36.96	44.20	7.24	5.30	V	1
20375	1752.5	-36.52	44.35	7.83	6.06	V	1

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CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-20.71	41.39	20.68	116.92	Н	1
20175	1732.5	-21.42	41.36	19.94	98.63	Н	1
20375	1752.5	-20.93	42.63	21.70	147.88	Н	1
19975	1712.5	-38.79	44.17	5.38	3.45	V	1
20175	1732.5	-37.98	44.20	6.22	4.19	V	1
20375	1752.5	-37.62	44.35	6.73	4.70	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-19.69	41.49	21.80	151.22	Н	1
20175	1732.5	-20.34	41.36	21.02	126.47	Н	1
20350	1750.0	-19.70	42.28	22.58	181.26	Н	1
20000	1715.0	-37.77	44.06	6.29	4.26	V	1
20175	1732.5	-36.90	44.20	7.30	5.37	V	1
20350	1750.0	-36.39	44.43	8.04	6.37	V	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-20.84	41.49	20.65	116.04	Н	1
20175	1732.5	-21.44	41.36	19.92	98.17	Н	1
20350	1750.0	-20.86	42.28	21.42	138.77	Н	1
20000	1715.0	-38.92	44.06	5.14	3.27	V	1
20175	1732.5	-38.00	44.20	6.20	4.17	V	1
20350	1750.0	-37.55	44.43	6.88	4.88	V	1

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LTE BAND 4

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-19.70	41.34	21.64	145.81	Н	1
20175	1732.5	-20.41	41.36	20.95	124.45	Н	1
20325	1747.5	-19.77	42.09	22.32	170.45	Н	1
20025	1717.5	-37.78	44.04	6.26	4.23	V	1
20175	1732.5	-36.97	44.20	7.23	5.28	V	1
20325	1747.5	-36.46	44.22	7.76	5.96	V	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-20.56	41.34	20.78	119.62	Н	1
20175	1732.5	-21.28	41.36	20.08	101.86	Н	1
20325	1747.5	-20.62	42.09	21.47	140.15	Н	1
20025	1717.5	-38.64	44.04	5.40	3.47	V	1
20175	1732.5	-37.84	44.20	6.36	4.33	V	1
20325	1747.5	-37.31	44.22	6.91	4.90	V	1

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-20.28	41.28	21.00	125.92	Н	1
20175	1732.5	-20.86	41.36	20.50	112.23	Н	1
20300	1745.0	-20.35	41.96	21.61	144.78	Н	1
20050	1720.0	-38.36	44.14	5.78	3.78	V	1
20175	1732.5	-37.42	44.20	6.78	4.76	V	1
20300	1745.0	-37.04	43.88	6.84	4.83	V	1

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CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-21.21	41.28	20.07	101.65	Н	1
20175	1732.5	-21.93	41.36	19.43	87.72	Н	1
20300	1745.0	-21.18	41.96	20.78	119.59	Н	1
20050	1720.0	-39.29	44.14	4.85	3.05	V	1
20175	1732.5	-38.49	44.20	5.71	3.72	V	1
20300	1745.0	-37.87	43.88	6.01	3.99	V	1

REMARKS: 1. EIRP Output Power (dBm) = SPA LVL (dBm) + Correction Factor (dB).

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-12.75	32.77	17.87	61.24	Н	3
23095	707.5	-11.81	33.23	19.27	84.53	Н	3
23173	715.3	-12.37	33.14	18.62	72.74	Н	3
23017	699.7	-23.83	32.42	6.44	4.40	V	3
23095	707.5	-24.95	32.60	5.50	3.55	V	3
23173	715.3	-25.06	32.19	4.98	3.14	V	3

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23017	699.7	-13.58	32.77	17.04	50.58	Н	3
23095	707.5	-12.83	33.23	18.25	66.83	Н	3
23173	715.3	-13.47	33.14	17.52	56.47	Н	3
23017	699.7	-24.66	32.42	5.61	3.64	V	3
23095	707.5	-25.97	32.60	4.48	2.81	V	3
23173	715.3	-26.16	32.19	3.88	2.44	V	3

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^{2.} Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss



LTE BAND 12

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-12.56	32.63	17.92	61.96	Н	3
23095	707.5	-11.75	33.23	19.33	85.70	Н	3
23165	714.5	-12.24	33.21	18.82	76.12	Н	3
23025	700.5	-23.64	32.33	6.54	4.51	V	3
23095	707.5	-24.89	32.60	5.56	3.60	V	3
23165	714.5	-24.93	32.30	5.22	3.33	V	3

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23025	700.5	-13.71	32.63	16.77	47.54	Н	3
23095	707.5	-12.85	33.23	18.23	66.53	Н	3
23165	714.5	-13.40	33.21	17.66	58.28	Н	3
23025	700.5	-24.79	32.33	5.39	3.46	V	3
23095	707.5	-25.99	32.60	4.46	2.79	V	3
23165	714.5	-26.09	32.30	4.06	2.55	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-12.57	32.53	17.81	60.33	Н	3
23095	707.5	-11.82	33.23	19.26	84.29	Н	3
23155	713.5	-12.31	33.29	18.83	76.33	Н	3
23035	701.5	-23.65	32.25	6.45	4.42	V	3
23095	707.5	-24.96	32.60	5.49	3.54	V	3
23155	713.5	-25.00	32.39	5.24	3.34	V	3

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CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23035	701.5	-13.43	32.53	16.95	49.49	Н	3
23095	707.5	-12.69	33.23	18.39	68.99	Н	3
23155	713.5	-13.16	33.29	17.98	62.76	Н	3
23035	701.5	-24.51	32.25	5.59	3.63	V	3
23095	707.5	-25.83	32.60	4.62	2.90	V	3
23155	713.5	-25.85	32.39	4.39	2.75	V	3

LTE BAND 12

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	RP(dBm) ERP(mW)		LIMIT (W)
23060	704.0	-13.15	32.68	17.38	54.74	Н	3
23095	707.5	-12.27	33.23	18.81	76.03	Н	3
23130	711.0	-12.89	33.39	18.35	68.34	н	3
23060	704.0	-24.23	32.37	5.99	3.97	V	3
23095	707.5	-25.41	32.60	5.04	3.19	V	3
23130	711.0	-25.58	32.56	4.83	3.04	V	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm) ERP(mW)		Polarization (H/V)	LIMIT (W)
23060	704.0	-14.08	32.68	16.45	44.19	Н	3
23095	707.5	-13.34	33.23	17.74	59.43	Н	3
23130	711.0	-13.72	33.39	17.52	56.45	н	3
23060	704.0	-25.16	32.37	5.06	3.20	V	3
23095	707.5	-26.48	32.60	3.97	2.49	V	3
23130	711.0	-26.41	32.56	4.00	2.51	V	3

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 13

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm) ERP(mW)		Polarization (H/V)	LIMIT (W)
23205	779.5	-14.56	32.60	15.89	38.82	Н	3
23230	782.0	-15.14	32.75	15.46	35.16	Н	3
23255	784.5	-15.76	33.08	15.17	32.89	Н	3
23205	779.5	-24.05	31.54	5.34	3.42	V	3
23230	782.0	-24.39	31.70	5.16	3.28	V	3
23255	784.5	-25.12	31.97	4.70	2.95	V	3

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23205	779.5	-8.08	32.60	22.37	172.58	Н	3
23230	782.0	-7.62	32.75	22.98	198.61	Н	3
23255	784.5	-7.98	33.08	22.95	197.24	Н	3
23205	779.5	-18.55	31.54	10.84	12.13	V	3
23230	782.0	-18.98	31.70	10.57	11.40	V	3
23255	784.5	-19.02	31.97	10.80	12.02	V	3

LTE BAND 13

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23230	782.0	-15.52	32.75	15.08	32.21	Н	3
23230	782.0	-24.23	31.70	5.32	3.40	V	3

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	SPA LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23230	782.0	-7.05	32.75	23.55	226.46	Н	3
23230	782.0	-18.25	31.70	11.30	13.49	V	3

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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3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

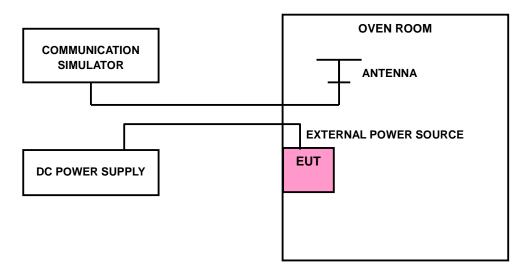
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 $\pm 0.5^{\circ}$ 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 were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.

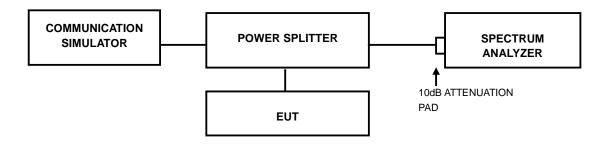


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

The test results were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.

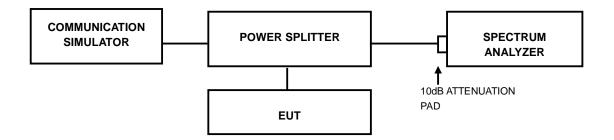


3.4 PEAK TO AVERAGE RATIO

3.4.1 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

3.4.2 TEST SETUP



3.4.3 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%.

3.4.4 TEST RESULTS

The test results were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.



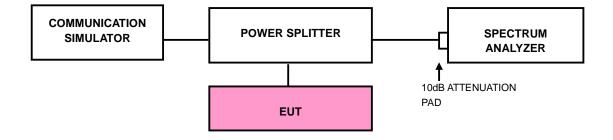
3.5 BAND EDGE MEASUREMENT

3.5.1 LIMITS OF BAND EDGE MEASUREMENT

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

3.5.2 TEST SETUP





3.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- 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. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

3.5.4 TEST RESULTS

The test results were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.



3.6 CONDUCTED SPURIOUS EMISSIONS

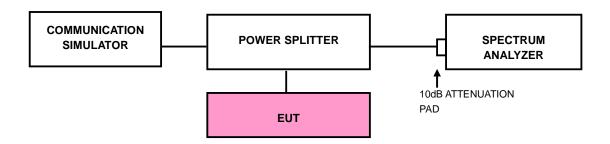
3.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

3.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz for LTE Band 4 and 30 MHz to 9GHz for LTE Band 12& LTE Band 13. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.6.3 TEST SETUP



3.6.4 TEST RESULTS

The test results were recorded in Reports No.:SD72128174-0517A & SD72132148-1017A.



3.7 RADIATED EMISSION MEASUREMENT

3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

3.7.2 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 of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.7.3 DEVIATION FROM TEST STANDARD

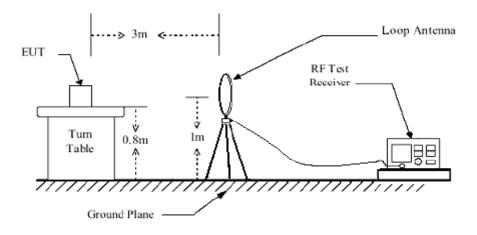
No deviation

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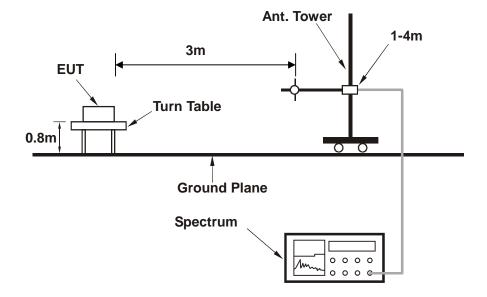


3.7.4 TEST SETUP

<Below 30MHz>



< Frequency Range 30MHz~1GHz >

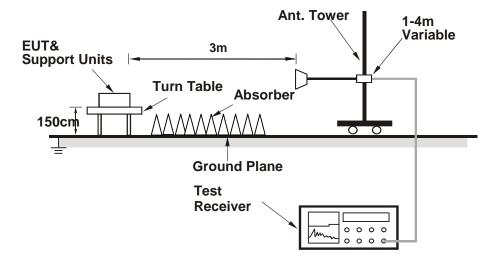


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Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China



< Frequency Range above 1GHz >



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



3.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

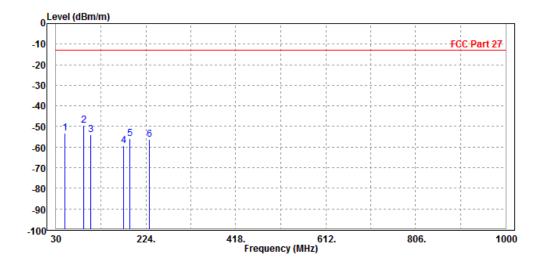
9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

LTE BAND 13:

MODE	TX channel 20230	FREQUENCY RANGE	Below 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter					
TESTED BY	Star Le	Star Le						
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	50.230	-53.37	-56.25	-13.00	-40.37	2.88	Peak	Horizontal
2 PP	90.150	-49.25	-40.17	-13.00	-36.25	-9.08	Peak	Horizontal
3	105.340	-53.84	-41.57	-13.00	-40.84	-12.27	Peak	Horizontal
4	175.210	-59.35	-41.42	-13.00	-46.35	-17.93	Peak	Horizontal
5	189.640	-56.07	-38.56	-13.00	-43.07	-17.51	Peak	Horizontal
6	231.550	-56.11	-39.48	-13.00	-43.11	-16.63	Peak	Horizontal

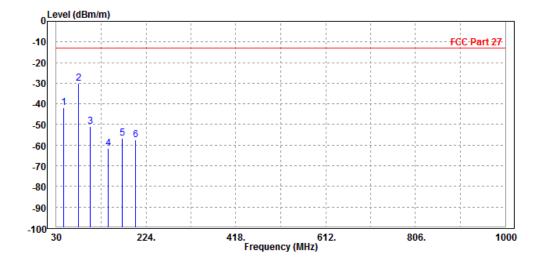


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MODE	TX channel 20230	FREQUENCY RANGE	Below 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	DC 5V from adapter						
TESTED BY	TESTED BY Star Le							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	45.260	-41.82	-38.56	-13.00	-28.82	-3.26	Peak	Vertical
2 PP	78.620	-29.85	-18.87	-13.00	-16.85	-10.98	Peak	Vertical
3	102.850	-51.04	-39.99	-13.00	-38.04	-11.05	Peak	Vertical
4	142.180	-61.60	-45.65	-13.00	-48.60	-15.95	Peak	Vertical
5	172.590	-56.49	-42.54	-13.00	-43.49	-13.95	Peak	Vertical
6	201.350	-57.35	-46.69	-13.00	-44.35	-10.66	Peak	Vertical



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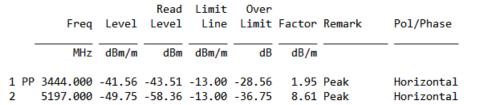
ABOVE 1GHz

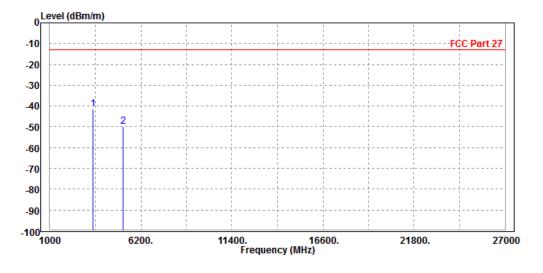
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz/QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							



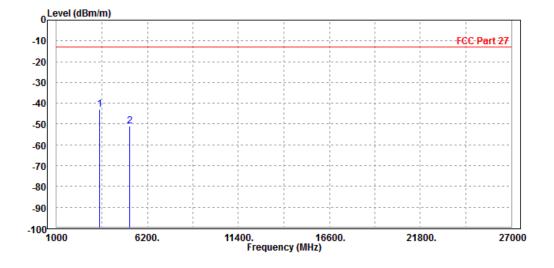


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MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3444.000 2 5197.000							Vertical Vertical

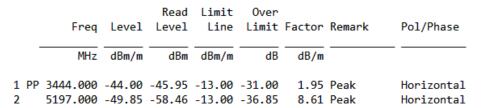


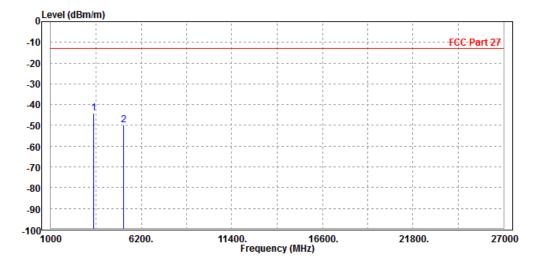
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CHANNEL BANDWIDTH: 3MHz/QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							



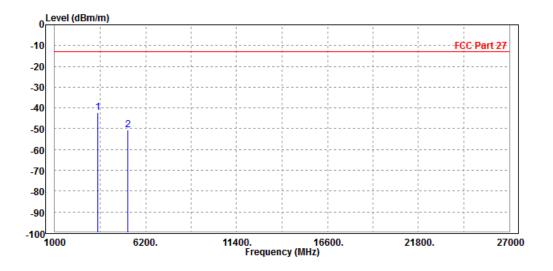


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MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

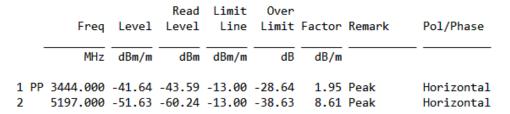
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2	PP	3444.000 5197.000							Vertical Vertical

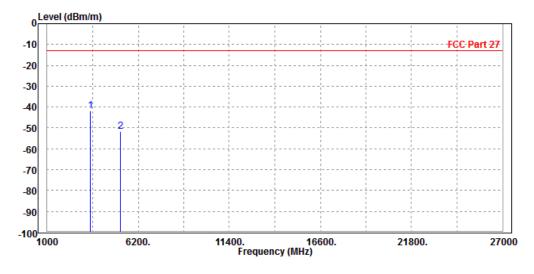




CHANNEL BANDWIDTH: 5MHz/QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							



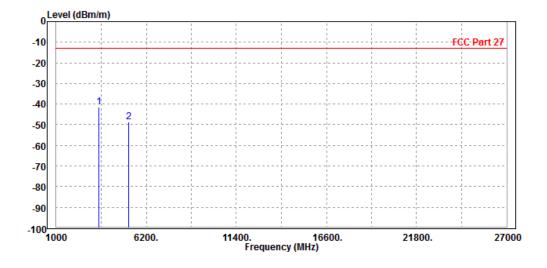


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MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3444.000 5197.000							Vertical Vertical



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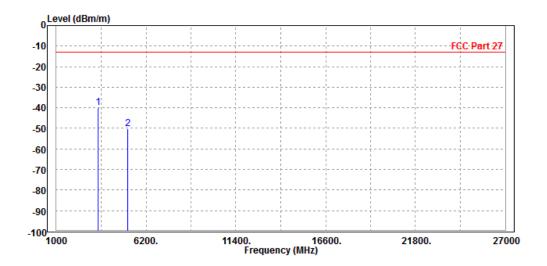


CHANNEL BANDWIDTH: 10MHz/QPSK

CH20000

MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

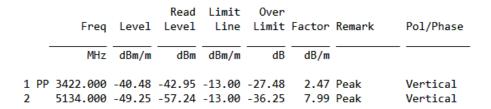
				0ver	Limit	Read			
Phase	rk Po	Remark	Factor	Limit	Line	Level	Level	Freq	
			dB/m	dB	dBm/m	dBm	dBm/m	MHz	
zontal	Ho	Peak	1.86	-26.86	-13.00	-41.72	-39.86	PP 3422.000	1 P
zontal	Ho	Peak	8.53	-37.03	-13.00	-58.56	-50.03	5134.000	2
									1 P

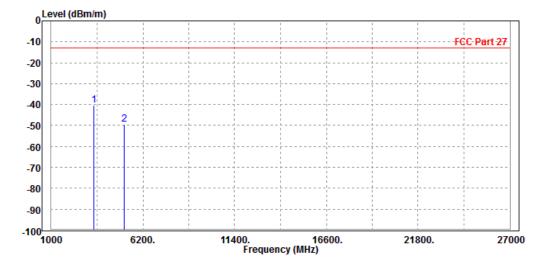


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MODE	TX channel 20000	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						





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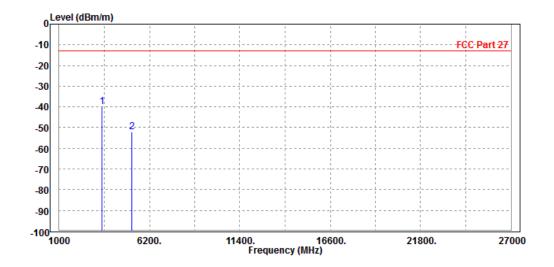
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CH20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter	
TESTED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				

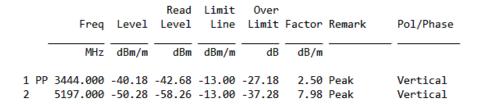
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3444.000	-39.76	-41.71	-13.00	-26.76	1.95	Peak	Horizontal
2		5197.000	-51.95	-60.56	-13.00	-38.95	8.61	Peak	Horizontal

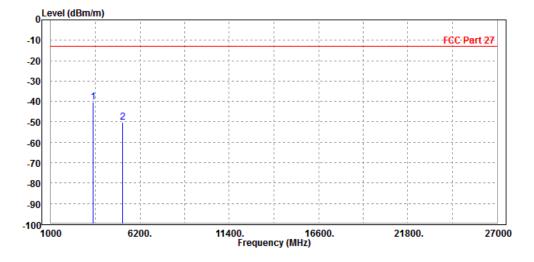


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MODE	TX channel 20175 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					



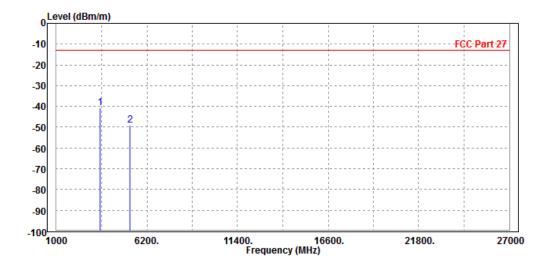




CH20350

MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

Read Limit Over	
Freq Level Level Line Limit Factor Remark Pol/Pha	ase
MHz dBm/m dBm dBm/m dB dB/m	
1 PP 3496.000 -40.52 -42.67 -13.00 -27.52 2.15 Peak Horizon	ntal
111 5450.000 -40.52 -42.07 -15.00 -27.52 2.15 Feak Hol 1201	ICGI
2 5238.000 -49.21 -57.86 -13.00 -36.21 8.65 Peak Horizor	ntal

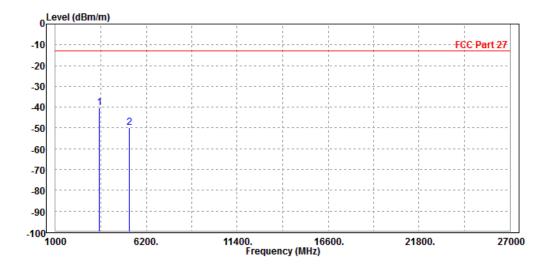


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MODE	TX channel 20350 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	P 3496.000							Vertical
2	5238.000	-49.76	-57.74	-13.00	-36.76	7.98	Peak	Vertical

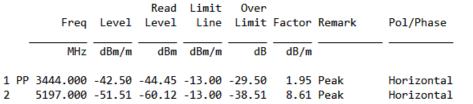


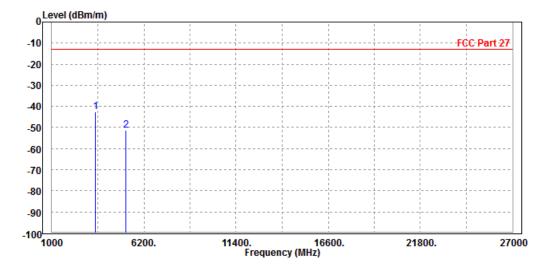
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CHANNEL BANDWIDTH: 15MHz/QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter	
TESTED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				





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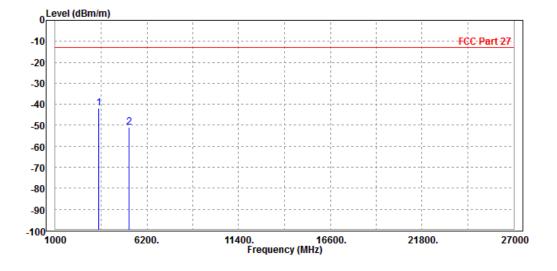
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Report Version 1



MODE	TX channel 20175 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	leg. C, 70%RH			
TESTED BY	Star Le				
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 PP 2	3444.000 5197.000							Vertical Vertical

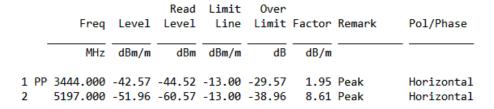


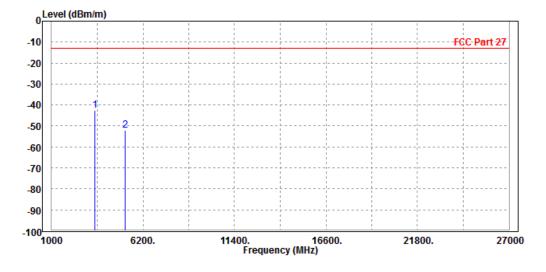
Tel: +86 755 8869 6566 Fax: +86 755 8869 6577



CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



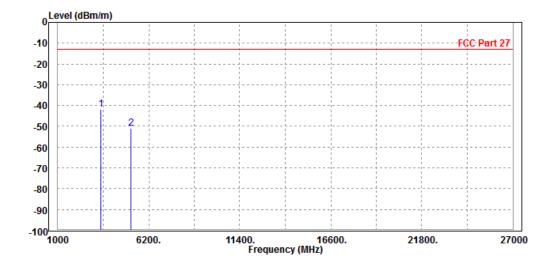


Tel: +86 755 8869 6566 Fax: +86 755 8869 6577



MODE	TX channel 20175 FREQUENCY RANGE		Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
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 PP 3444.000 2 5197.000							Vertical Vertical



Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

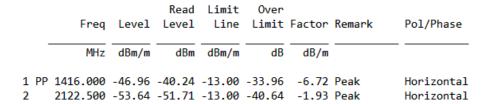
Email: customerservice.dg@cn.bureauveritas.com

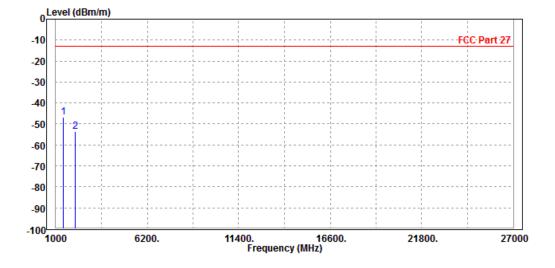


LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz/QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

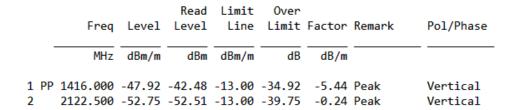


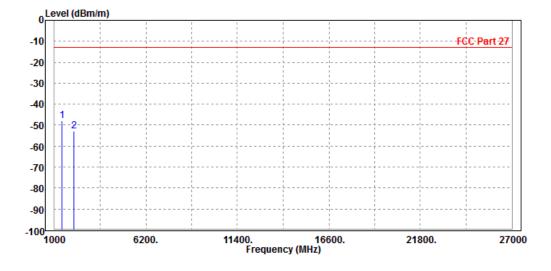


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MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							





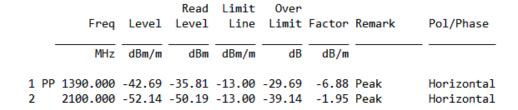
Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

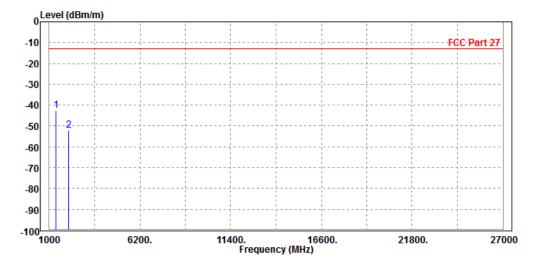


CHANNEL BANDWIDTH: 3MHz/QPSK

CH23025

MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



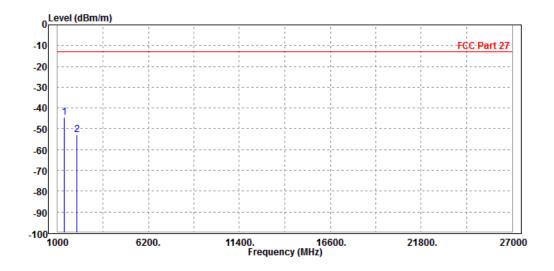


Tel: +86 755 8869 6566 Fax: +86 755 8869 6577



MODE	TX channel 23025	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
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 PP 1390.000 2 2100.000							Vertical Vertical	



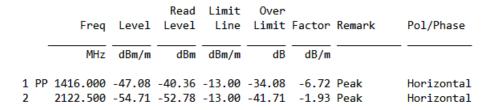
Tel: +86 755 8869 6566 Fax: +86 755 8869 6577

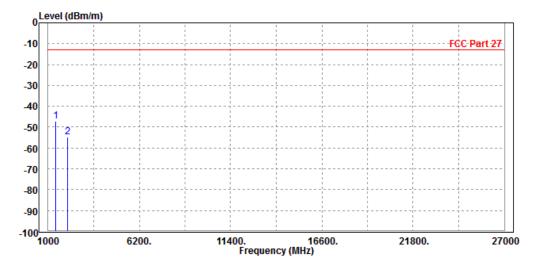
Email: customerservice.dg@cn.bureauveritas.com



CH23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

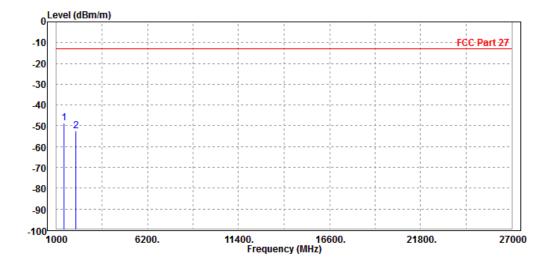






MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

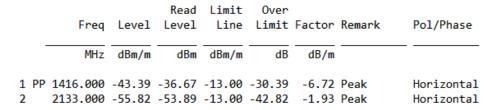
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		1416.000 2122.500							Vertical Vertical

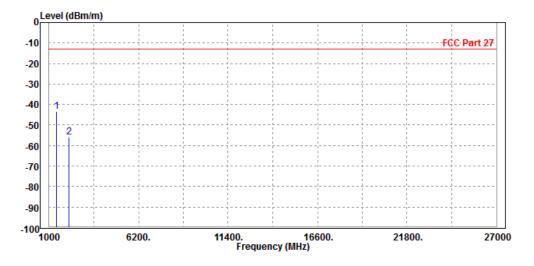




CH23165

MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



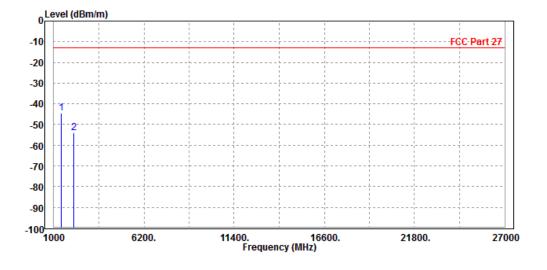


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MODE	TX channel 23165	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	1416.000 2133.000							Vertical Vertical

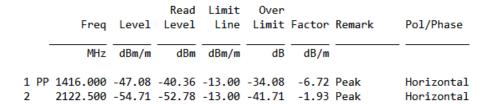


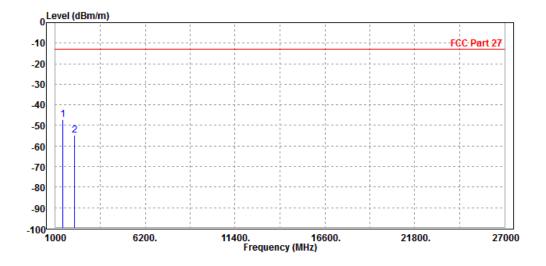
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CHANNEL BANDWIDTH: 5MHz/QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter	
TESTED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				



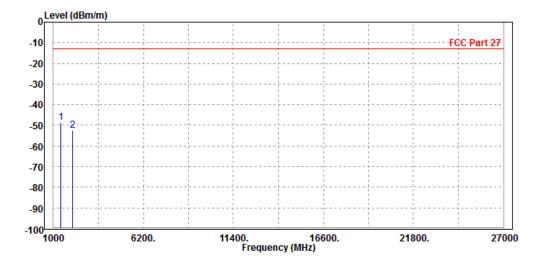


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MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

F	req	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz .	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 1416.	999	-48.74	-43.30	-13.00	-35.74	-5.44	Peak	Vertical
				-13.00				Vertical

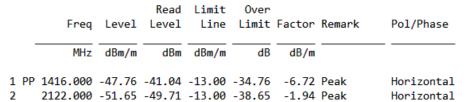


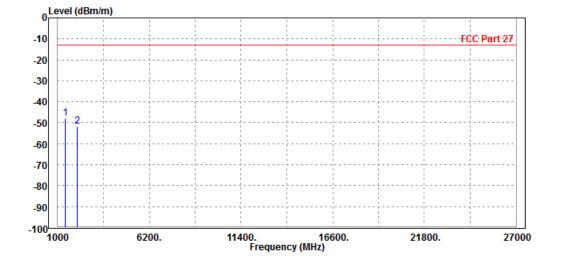
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CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	ESTED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					



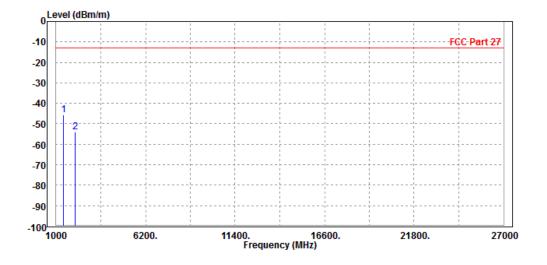


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MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

Freq	Level		Limit Line		Factor	Remark	Pol/Phase	
MHz	dBm/m	dBm	dBm/m	——dB	dB/m			
1 PP 1416.000 2 2122.000							Vertical Vertical	



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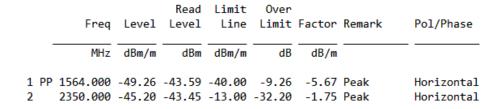


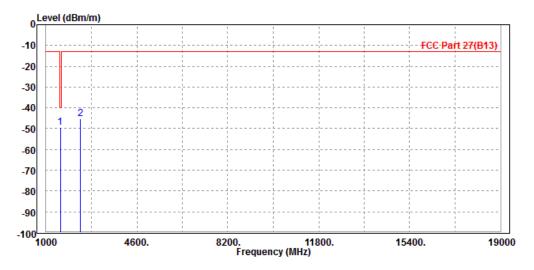
LTE BAND 13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 23205

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter	
TESTED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M				



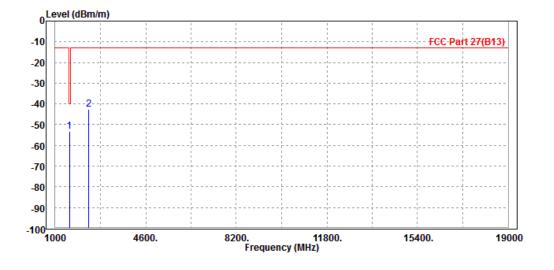


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MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	1564.000 2338.000							Vertical Vertical

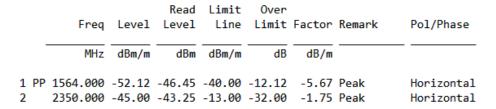


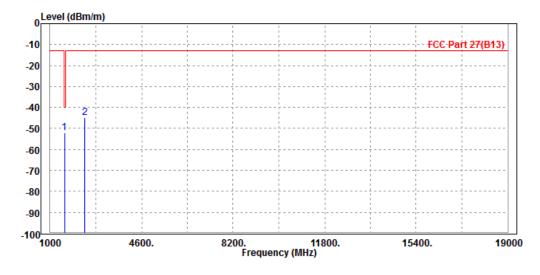
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CH 23230

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					

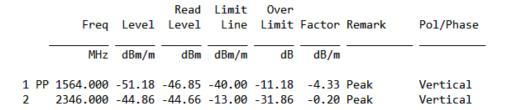


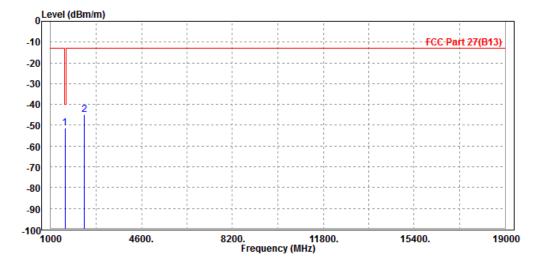


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MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					



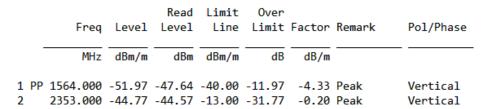


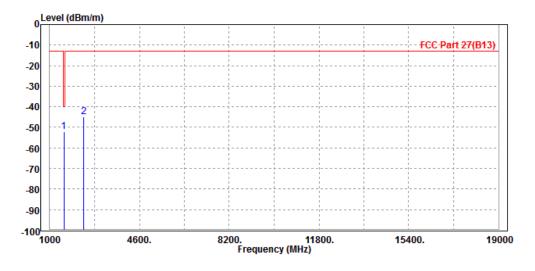
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CH 23255

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M					





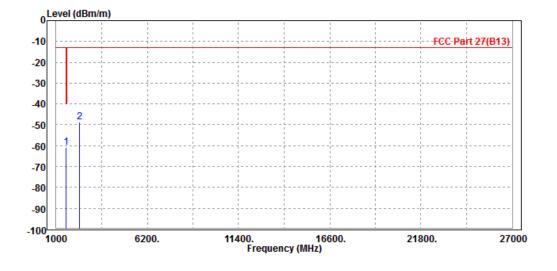
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Email: customerservice.dg@cn.bureauveritas.com



MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	1572.000	-60.68	-56.42	-40.00	-20.68	-4.26	Peak	Vertical
2	2353.500	-48.77	-48.57	-13.00	-35.77	-0.20	Peak	Vertical

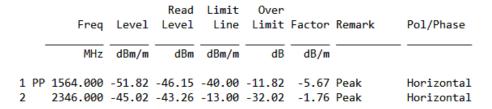


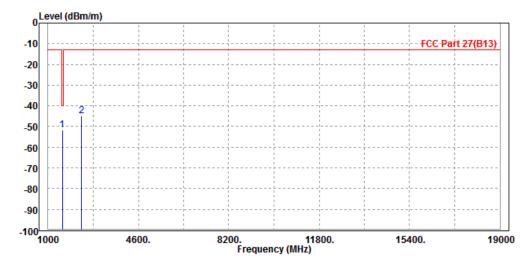
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CHANNEL BANDWIDTH: 10MHz/QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



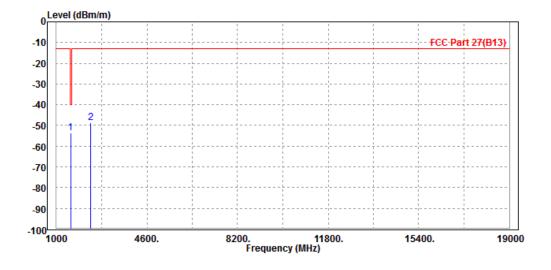


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MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PF	2350.000							Vertical Vertical



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4 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.



5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---