

FCC Test Report

Report No: FCS202311122W01

Issued for

Applicant:	DongGuan LDARC Technology Co., Ltd.	
Address:	JinTianDa Logistics Park, No.180-104 DongShen Rd, YanTian, FengGang, DongGuan, GuangDong, China	
Product Name:	M58 and CT01 Combo	
Brand Name:	N/A	
Model Name:	M58 BNR, M58 RTR, M58 RTR-PRO	
FCC ID:	2BAKS-CM58	
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com		



TEST RESULT CERTIFICATION

Applicant's Name	DongGuan LDARC Technology Co., Ltd.
Address	JinTianDa Logistics Park, No.180-104 DongShen Rd, YanTian, FengGang, DongGuan, GuangDong, China
Manufacture's Name	DongGuan LDARC Technology Co., Ltd.
Address	JinTianDa Logistics Park, No.180-104 DongShen Rd, YanTian, FengGang, DongGuan, GuangDong, China
Product Description	
Product Name	M58 and CT01 Combo
Brand Name	N/A
Model Name	M58 BNR
Series Model	M58 RTR, M58 RTR-PRO
Test Standards	FCC Rules and Regulations Part 15 Subpart C, Section 247
Test Procedure	ANSI C63.10:2013

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date (s) of performance of tests.: Nov.10, 2023 ~ Nov.13, 2023

Date of Issue Nov.13, 2023

Test Result:	Pass
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Tested by	:	Scott shen	
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Reviewed by	:	Duke Quer	FCS
		(Duke Qian)	
Approved by	:	Jukerowg	ONILINSHO

(Jack Wang)



Page 3 of 56

Table of Contents

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	10
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.5 EQUIPMENTS LIST	12
3. EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.2 TEST PROCEDURE	14
3.3 TEST SETUP	14
3.4 EUT OPERATING CONDITIONS	14
3.5 TEST RESULTS	15
4. RADIATED EMISSION MEASUREMENT	17
4.1 RADIATED EMISSION LIMITS	17
4.2 TEST PROCEDURE	19
4.3 TEST SETUP	20
4.4 EUT OPERATING CONDITIONS	20
4.5 FIELD STRENGTH CALCULATION	21
4.6 TEST RESULTS	22
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	28
5.1 LIMIT	28
5.2 TEST PROCEDURE	28
5.3 TEST SETUP	28
5.4 EUT OPERATION CONDITIONS	28
5.5 TEST RESULTS	29
6. POWER SPECTRAL DENSITY TEST	30
6.1 LIMIT	30



Page 4 of 56

Table of Contents

6.2 TEST PROCEDURE	30
6.3 TEST SETUP	30
6.4 EUT OPERATION CONDITIONS	30
6.5 TEST RESULTS	30
7. BANDWIDTH TEST	31
7.1 LIMIT	31
7.2 TEST PROCEDURE	31
7.3 TEST SETUP	31
7.4 EUT OPERATION CONDITIONS	31
7.5 TEST RESULTS	31
8. PEAK OUTPUT POWER TEST	32
8.1 LIMIT	32
8.2 TEST PROCEDURE	32
8.3 TEST SETUP	32
8.4 EUT OPERATION CONDITIONS	32
8.5 TEST RESULTS	33
9. ANTENNA REQUIREMENT	34
9.1 STANDARD REQUIREMENT	34
9.2 EUT ANTENNA	34
APPENDIX I:TEST RESULTS	35
1. DUTY CYCLE	35
2. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER	38
3. MAXIMUM PEAK CONDUCTED OUTPUT POWER	41
46DB BANDWIDTH	44
5. MAXIMUM POWER SPECTRAL DENSITY LEVEL	47
6. BAND EDGE	50
7. CONDUCTED RF SPURIOUS EMISSION	53



Page 5 of 56

Revision History

Rev.	Issue Date	Contents
00	Nov.13, 2023	Initial Issue

Flux Compliance Service Laboratory Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3)	Output Power	PASS	
15.209	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted Band Edge Emission	PASS	
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

West Road Hi-Tech Industrial, Song shan lake Dongguan Telephone: +86-769-27280901 Fax: +86-769-27280901 FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097 CAB ID : CN0097 FLUX COMPLIANCE SERVICE LABORATORY Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong, 523808 PRC. CN0097 RSS-102(RFExp) (2020-01-09) RECOGNIZED UNTIL: 2023-12-31 ISED#: 25801 CN097 RSS-210 (2020-01-09) RSS-247 (2020-01-09) A2LA ISO/IEC I7025: 2017	Company Name: Fl	ux Compliance Service	e Laboratory	
Fax: +86-769-27280901 FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097 Image: Complex state				
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097 Scope / Recognition Date (yyyy-mm-dd) FLUX COMPLIANCE SERVICE LABORATORY CN0097 RSS-102(RFExp) (2020-01-09) RECOGNIZED UNTIL: 2023-12-31 Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong. 523808 PRC. CN0097 RSS-210 (2020-01-09) RSS-210 (2020-01-09) A2LA ISO/IEC 17025: 2017 Expires: 2023-12-31 ISED#: 25801 ISED#: 25801 ISED#: 25801 ISED#: 25801	Telephone: +8	36-769-27280901		
Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097 CAB Scope / Recognition Date Expiration Organization identifier (yyyy-mm-dd) (yyyy-mm-dd) FLUX COMPLIANCE SERVICE LABORATORY CN0097 RSS-102(RFExp) (2020-01-09) RECOGNIZED UNTIL: 2023-12-31 Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong. 523808 PRC. CN0097 RSS-210 (2020-01-09) RSS-210 (2020-01-09) A2LA ISO/IEC 17025: 2017 ISED#: 25801 ISED#: 2023-12-31	Fax: +8	36-769-27280901		
CAB identifierRecognition Date (yyyy-mm-dd)Expiration (yyyy-mm-dd)FLUX COMPLIANCE SERVICE LABORATORYCN0097RSS-102(RFExp) (2020-01-09)RECOGNIZED UNTIL: 2023-12-31Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Donguan, Guangdong. 523808 PRC.RSS-202(20-01-09)A2LA ISO/IECBaohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Donguan, Guangdong. 523808 PRC.RSS-210 (2020-01-09) RSS-210 (2020-01-09)A2LA ISO/IEC ISO/IEC 2023-12-31ISED#: 25801ISED#: 25801ISED#: 25801ISED#: 25801	A2LA accreditation numb ISED Number: 25801			
CN0097RSS-102(RFExp) (2020-01-09)RECOGNIZED UNTIL: 2023-12-31Baohao Technology Building 1 No. 15 Gongye West Road Hi-Tech Industrial Park Songsham Lake Dongguan, Guangdong. 523808 PRC.RSS-GEN (2020-01-09)2023-12-31Baohao Technology Building 1 No. 15 Gongye West PRC.RSS-GEN (2020-01-09)A2LA ISO/IECBaohao Technology Building 1 No. 15 Gongye West PRC.RSS-210 (2020-01-09) RSS-210 (2020-01-09)A2LA ISO/IEC Expires: 2023-12-31ISED#: 25801ISED#: 25801ISED#: 25801ISED#: 25801	Organization		Recognition Date	
Contact. Andy Tue	Baohao Technology Building 1 No Road Hi-Tech Industrial Park S Dongguan, Guangdong. PRC.	. 15 Gongye West ongsham Lake 523808	(2020-01-09) RSS-GEN (2020-01-09) RSS-210 (2020-01-09)	UNTIL: 2023-12-31 A2LA ISO/IEC 17025: 2017 Expires;

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.988 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	All emissions radiated (9KHz -30MHz)	±3.1 dB
5	Conducted Emission (150KHz-30MHz)	±4.74 dB
6	All emissions,radiated(<1G) 30MHz-1000MHz	±5.2 dB
7	All emissions, radiated 1GHz -18GHz	±4.66 dB
8	All emissions, radiated 18GHz -40GHz	±4.31 dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	M58 and CT01 Combo			
Trade Mark	N/A	N/A		
Model Name	M58 BNR			
Series Model	M58 RTR, M58 RT	R-PRO		
Model Difference	Only different in mo	odel name.		
	The EUT is a M58	and CT01 Combo		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
	Bluetooth Version:	4.2		
Product Description	Bluetooth	BLE (1M PHY)		
	Configuration:			
	Number Of Channel:	40		
	Antenna Designation:	Please refer to the Note 3.		
	Antenna Gain (dBi)	0 dBi		
Channel List	Please refer to the Note 2.			
Power Supply	Input: DC 5V			
Battery	Rated Voltage: DC 3.7V Capacity: 160mAh			
Hardware version number	N/A			
Software version number	N/A			
Connecting I/O Port(s)	Please refer to the Note 1.			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



2	
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	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480
	•	•	•	•	•	•	•

3.

Table for Filed Antenna

ſ	Ant	Drand	Madal Nama	Antonno Tuno	Connector		NOTE
	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	1	N/A	M58	PCB	N/A	0	BLE ANT

Note: The antenna information refere the manufacturer provide report, applicable only to the tested sample identified in the report.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

(3) The battery is fully-charged during the radited and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	0	0	RFTest



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
N/A	N/A	N/A	N/A	N/A

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	Air 14	N/A	N/A
Adapter	HW	0789SK	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^rLength ^l column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.5 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2023.08.29	2024.08.28
Signal Analyzer	R&S	FSV40-N	FCS-E012	2023.08.29	2024.08.28
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2023.08.29	2024.08.28
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2023.08.29	2024.08.28
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2023.08.29	2024.08.28
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2023.08.29	2024.08.28
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2023.08.29	2024.08.28
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2023.08.29	2024.08.28
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2023.08.29	2024.08.28
Temperature & Humidity	HTC-1	victor	FCS-E005	2023.08.29	2024.08.28
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2023.08.29	2024.08.28
LISN	R&S	ENV216	FCS-E007	2023.08.29	2024.08.28
LISN	ETS	3810/2NM	FCS-E009	2023.08.29	2024.08.28
Temperature & Humidity	HTC-1	victor	FCS-E008	2023.08.29	2024.08.28
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2023.08.29	2024.08.28
Spectrum Analyzer	Agilent	E4447A	MY50180039	2023.08.29	2024.08.28
Spectrum Analyzer	R&S	FSV-40	101499	2023.08.29	2024.08.28
Power Sensor	Agilent	UX2021XA	FCS-E021	2023.08.29	2024.08.28
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

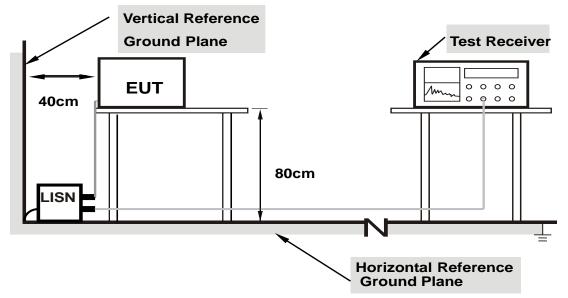
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



- 3.2 TEST PROCEDURE
- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



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

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



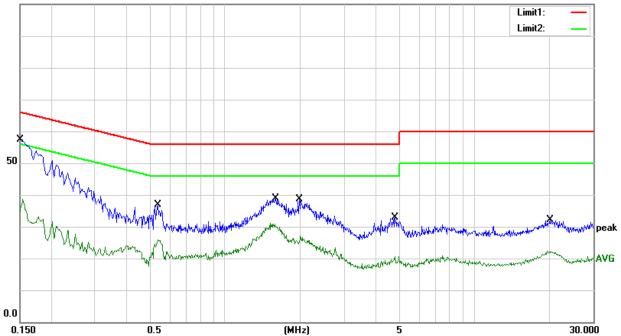
3.5 TEST RESULTS

M/N:	M58 BNR	Temperature: 25°C						
Phase: N Test Mode: Mode 4				Humidity: 45%RH				
				Test Voltage:	AC 120V/60H	Ηz		
							mit1: — mit2: —	
50	MWM MMM	WMM Ath redowned		Marken and a set		A-lassi-s-decardinos-testerin	vyave Kriss Junta	
0.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
		0.5	(MH	z)	5		30.00	
No.	Frequency	Reading	Correct	Result	Limit	Margin	30.00 Remark	
	(MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	(dB)	Remark	
1	(MHz) 0.1620	Reading (dBuV) 37.85	Correct Factor(dB) 20.33	Result (dBuV) 58.18	Limit (dBuV) 65.36	(dB) -7.18	Remark QP	
1	(MHz) 0.1620 0.1620	Reading (dBuV) 37.85 18.02	Correct Factor(dB) 20.33 20.33	Result (dBuV) 58.18 38.35	Limit (dBuV) 65.36 55.36	(dB) -7.18 -17.01	Remark QP AVG	
1 2 3	(MHz) 0.1620 0.1620 0.2500	Reading (dBuV) 37.85 18.02 26.43	Correct Factor(dB) 20.33 20.33 20.53	Result (dBuV) 58.18 38.35 46.96	Limit (dBuV) 65.36 55.36 61.76	(dB) -7.18 -17.01 -14.80	Remark QP AVG QP	
1 2 3 4	(MHz) 0.1620 0.1620 0.2500 0.2500	Reading (dBuV) 37.85 18.02 26.43 6.99	Correct Factor(dB) 20.33 20.33 20.53 20.53	Result (dBuV) 58.18 38.35 46.96 27.52	Limit (dBuV) 65.36 55.36 61.76 51.76	(dB) -7.18 -17.01 -14.80 -24.24	Remark QP AVG QP AVG	
1 2 3	(MHz) 0.1620 0.1620 0.2500	Reading (dBuV) 37.85 18.02 26.43	Correct Factor(dB) 20.33 20.33 20.53	Result (dBuV) 58.18 38.35 46.96	Limit (dBuV) 65.36 55.36 61.76	(dB) -7.18 -17.01 -14.80 -24.24 -18.75	Remark QP AVG QP	
1 2 3 4 5	(MHz) 0.1620 0.1620 0.2500 0.2500 1.5740	Reading (dBuV) 37.85 18.02 26.43 6.99 16.95	Correct Factor(dB) 20.33 20.33 20.53 20.53 20.53 20.30	Result (dBuV) 58.18 38.35 46.96 27.52 37.25	Limit (dBuV) 65.36 55.36 61.76 51.76 56.00	(dB) -7.18 -17.01 -14.80 -24.24	Remark QP AVG QP AVG QP	
1 2 3 4 5 6	(MHz) 0.1620 0.1620 0.2500 0.2500 1.5740 1.5740	Reading (dBuV) 37.85 18.02 26.43 6.99 16.95 9.84	Correct Factor(dB) 20.33 20.33 20.53 20.53 20.53 20.30 20.30	Result (dBuV) 58.18 38.35 46.96 27.52 37.25 30.14	Limit (dBuV) 65.36 55.36 61.76 51.76 56.00 46.00	(dB) -7.18 -17.01 -14.80 -24.24 -18.75 -15.86	Remark QP AVG QP AVG QP AVG QP	
1 2 3 4 5 6 7	(MHz) 0.1620 0.1620 0.2500 0.2500 1.5740 1.5740 1.9740	Reading (dBuV) 37.85 18.02 26.43 6.99 16.95 9.84 16.30	Correct Factor(dB) 20.33 20.33 20.53 20.53 20.53 20.30 20.30 20.30	Result (dBuV) 58.18 38.35 46.96 27.52 37.25 30.14 36.60	Limit (dBuV) 65.36 55.36 61.76 51.76 56.00 46.00 56.00	(dB) -7.18 -17.01 -14.80 -24.24 -18.75 -15.86 -19.40	Remark QP AVG QP AVG QP AVG QP	
1 2 3 4 5 6 7 8	(MHz) 0.1620 0.1620 0.2500 0.2500 1.5740 1.5740 1.5740 1.9740 1.9740	Reading (dBuV) 37.85 18.02 26.43 6.99 16.95 9.84 16.30 5.00	Correct Factor(dB) 20.33 20.33 20.53 20.53 20.53 20.30 20.30 20.30	Result (dBuV) 58.18 38.35 46.96 27.52 37.25 30.14 36.60 25.30	Limit (dBuV) 65.36 55.36 61.76 51.76 56.00 46.00 56.00 46.00	(dB) -7.18 -17.01 -14.80 -24.24 -18.75 -15.86 -19.40 -20.70	Remark QP AVG QP AVG QP AVG QP AVG QP AVG QP AVG QP	
1 2 3 4 5 6 7 8 9	(MHz) 0.1620 0.1620 0.2500 0.2500 1.5740 1.5740 1.9740 1.9740 4.7060	Reading (dBuV) 37.85 18.02 26.43 6.99 16.95 9.84 16.30 5.00 11.74	Correct Factor(dB) 20.33 20.33 20.53 20.53 20.53 20.30 20.30 20.30 20.30 20.30	Result (dBuV) 58.18 38.35 46.96 27.52 37.25 30.14 36.60 25.30 32.19	Limit (dBuV) 65.36 55.36 61.76 51.76 56.00 46.00 56.00 46.00	(dB) -7.18 -17.01 -14.80 -24.24 -18.75 -15.86 -19.40 -20.70 -23.81	Remark QP AVG QP AVG QP AVG QP AVG QP AVG QP AVG QP	



M/N: M58 BNR	Temperature: 25°C
Phase: L1	Humidity: 45%RH
Test Mode: Mode 4	Test Voltage: AC 120V/60Hz

100.0 dBuV



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	37.04	20.33	57.37	66.00	-8.63	QP
2	0.1500	18.21	20.33	38.54	56.00	-17.46	AVG
3	0.5380	16.30	20.50	36.80	56.00	-19.20	QP
4	0.5380	5.41	20.50	25.91	46.00	-20.09	AVG
5	1.5940	18.53	20.30	38.83	56.00	-17.17	QP
6	1.5940	10.77	20.30	31.07	46.00	-14.93	AVG
7	1.9860	18.25	20.30	38.55	56.00	-17.45	QP
8	1.9860	8.54	20.30	28.84	46.00	-17.16	AVG
9	4.8060	12.33	20.45	32.78	56.00	-23.22	QP
10	4.8060	0.31	20.45	20.76	46.00	-25.24	AVG
11	20.0700	9.11	22.90	32.01	60.00	-27.99	QP
12	20.0700	-0.46	22.90	22.44	50.00	-27.56	AVG



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			





For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
DD ()/D (omission in restricted hand)	9KHz (From 0.15MHz to 30MHz);		
RB/VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB/VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/AV		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
DR ()/R (omigaion in restricted hand)	1 MHz / 3 MHz(Peak)		
RB/VB (emission in restricted band)	1 MHz/1/T MHz(AVG)		

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak/AV		
Stort/Stop Fraguanay	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

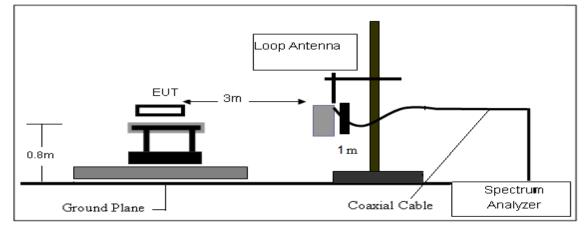
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

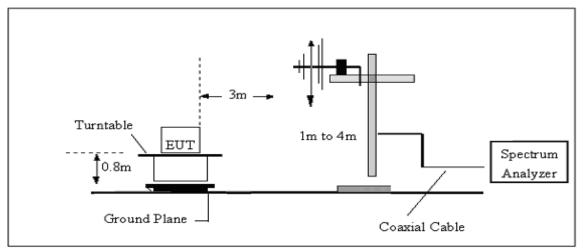


4.3 TEST SETUP

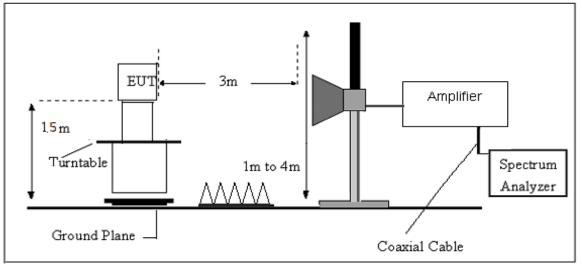
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



4.6 TEST RESULTS

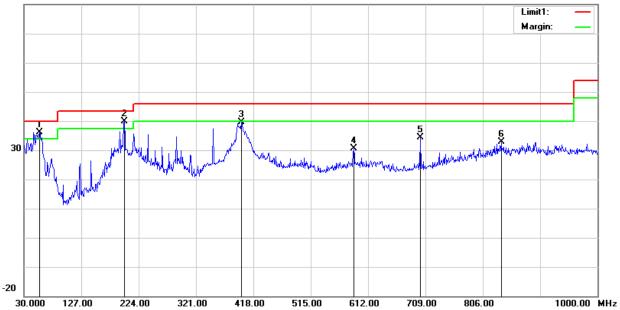
M/N: M58 BNR	Temperature: 23.5°C
Phase: H	Humidity: 54%RH
Test Mode: Mode 1/2/3 (Mode 1 worst mode)	Test Voltage: DC 3.7V

								Limit1: — Margin: —
					Muddhinghynn	mentional device the	frontier for the sound	6 U. Luffinder Manuelle
30.00			321.00	418.00 515.0		709.00	806.00	1000.00
	No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
	1	143.4900	52.76	-18.23	34.53	43.50	-8.97	peak
	2	198.7800	59.50	-21.12	38.38	43.50	-5.12	peak
	3	288.0200	55.46	-15.26	40.20	46.00	-5.80	peak
	4	200 000	49.21	-11.20	38.01	46.00	-7.99	peak
		398.6000	-					
	5	480.0800	39.91	-8.65	31.26	46.00	-14.74	peak



M/N: M58 BNR	Temperature: 23.5°C
Phase: V	Humidity: 54%RH
Test Mode: Mode 1/2/3 (Mode 1 worst mode)	Test Voltage: DC 3.7V

80.0 dBuV/m



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	56.1900	61.39	-25.30	36.09	40.00	-3.91	peak
2	199.7500	60.88	-21.11	39.77	43.50	-3.73	peak
3	397.6300	50.90	-11.24	39.66	46.00	-6.34	peak
4	587.7500	36.43	-5.81	30.62	46.00	-15.38	peak
5	700.2700	38.43	-4.16	34.27	46.00	-11.73	peak
6	837.0400	33.26	-0.46	32.80	46.00	-13.20	peak



(1GHz-25GHz) Spurious emission Requirements

, , , , , , , , , , , , , , , , , , ,		, i		•	GFSK					
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low CI	nannel (GFSK/	2402 MHz)				
3264.87	61.10	44.70	6.70	28.20	-9.80	51.30	74.00	-22.70	PK	Vertical
3264.87	49.86	44.70	6.70	28.20	-9.80	40.06	54.00	-13.94	AV	Vertical
3264.83	61.82	44.70	6.70	28.20	-9.80	52.02	74.00	-21.98	PK	Horizontal
3264.83	50.60	44.70	6.70	28.20	-9.80	40.80	54.00	-13.20	AV	Horizontal
4804.45	58.84	44.20	9.04	31.60	-3.56	55.28	74.00	-18.72	PK	Vertical
4804.45	49.12	44.20	9.04	31.60	-3.56	45.56	54.00	-8.44	AV	Vertical
4804.49	58.93	44.20	9.04	31.60	-3.56	55.37	74.00	-18.63	PK	Horizontal
4804.49	49.63	44.20	9.04	31.60	-3.56	46.07	54.00	-7.93	AV	Horizontal
5359.62	48.72	44.20	9.86	32.00	-2.34	46.38	74.00	-27.62	PK	Vertical
5359.62	40.29	44.20	9.86	32.00	-2.34	37.95	54.00	-16.05	AV	Vertical
5359.72	48.51	44.20	9.86	32.00	-2.34	46.16	74.00	-27.84	PK	Horizontal
5359.72	38.05	44.20	9.86	32.00	-2.34	35.71	54.00	-18.29	AV	Horizontal
7205.91	54.01	43.50	11.40	35.50	3.40	57.41	74.00	-16.59	PK	Vertical
7205.91	44.31	43.50	11.40	35.50	3.40	47.71	54.00	-6.29	AV	Vertical
7205.72	54.38	43.50	11.40	35.50	3.40	57.78	74.00	-16.22	PK	Horizontal
7205.72	44.09	43.50	11.40	35.50	3.40	47.49	54.00	-6.51	AV	Horizontal
	•	•		Middle 0	Channel (GFSK	(/2440 MHz)	•		•	•
3263.19	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Vertical
3263.19	51.51	44.70	6.70	28.20	-9.80	41.71	54.00	-12.29	AV	Vertical
3263.16	61.91	44.70	6.70	28.20	-9.80	52.11	74.00	-21.89	PK	Horizontal
3263.16	49.94	44.70	6.70	28.20	-9.80	40.14	54.00	-13.86	AV	Horizontal
4879.87	59.15	44.20	9.04	31.60	-3.56	55.59	74.00	-18.41	PK	Vertical
4879.87	49.71	44.20	9.04	31.60	-3.56	46.15	54.00	-7.85	AV	Vertical
4879.93	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Horizontal
4879.93	50.55	44.20	9.04	31.60	-3.56	46.99	54.00	-7.01	AV	Horizontal
5357.10	48.44	44.20	9.86	32.00	-2.34	46.10	74.00	-27.90	PK	Vertical
5357.10	39.35	44.20	9.86	32.00	-2.34	37.00	54.00	-17.00	AV	Vertical
5357.39	47.70	44.20	9.86	32.00	-2.34	45.36	74.00	-28.64	PK	Horizontal
5357.13	39.05	44.20	9.86	32.00	-2.34	36.71	54.00	-17.29	AV	Horizontal
7320.85	55.00	43.50	11.40	35.50	3.40	58.40	74.00	-15.60	PK	Vertical
7320.85	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Vertical
7320.39	53.83	43.50	11.40	35.50	3.40	57.23	74.00	-16.77	PK	Horizontal
7320.39	44.53	43.50	11.40	35.50	3.40	47.93	54.00	-6.07	AV	Horizontal

Page 25 of 56



				High Char	nnel (GFSK/	2480 MHz)				
3264.81	61.81	44.70	6.70	28.20	-9.80	52.01	74.00	-21.99	PK	Vertical
3264.81	51.37	44.70	6.70	28.20	-9.80	41.57	54.00	-12.43	AV	Vertical
3264.62	61.54	44.70	6.70	28.20	-9.80	51.74	74.00	-22.26	PK	Horizontal
3264.62	50.45	44.70	6.70	28.20	-9.80	40.65	54.00	-13.35	AV	Horizontal
4960.40	59.52	44.20	9.04	31.60	-3.56	55.96	74.00	-18.04	PK	Vertical
4960.40	49.14	44.20	9.04	31.60	-3.56	45.58	54.00	-8.42	AV	Vertical
4960.40	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Horizontal
4960.40	50.41	44.20	9.04	31.60	-3.56	46.85	54.00	-7.15	AV	Horizontal
5359.83	48.74	44.20	9.86	32.00	-2.34	46.40	74.00	-27.60	PK	Vertical
5359.83	39.74	44.20	9.86	32.00	-2.34	37.39	54.00	-16.61	AV	Vertical
5359.79	47.81	44.20	9.86	32.00	-2.34	45.47	74.00	-28.53	PK	Horizontal
5359.79	38.64	44.20	9.86	32.00	-2.34	36.30	54.00	-17.70	AV	Horizontal
7439.69	54.23	43.50	11.40	35.50	3.40	57.63	74.00	-16.37	PK	Vertical
7439.69	43.73	43.50	11.40	35.50	3.40	47.13	54.00	-6.87	AV	Vertical
7439.96	54.14	43.50	11.40	35.50	3.40	57.54	74.00	-16.46	PK	Horizontal
7439.96	44.17	43.50	11.40	35.50	3.40	47.57	54.00	-6.43	AV	Horizontal

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

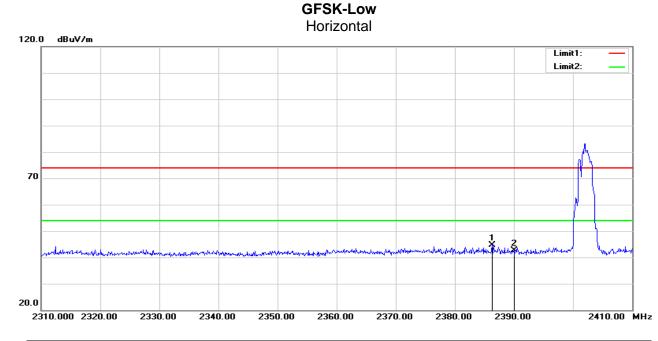
Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



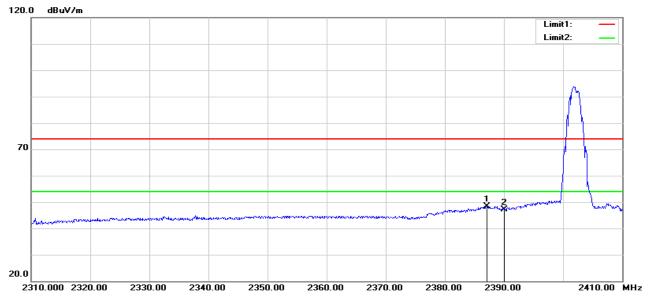


Restricted Bands Requirements



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.300	40.47	4.28	44.75	74.00	-29.25	peak
2	2390.000	38.37	4.34	42.71	74.00	-31.29	peak

Vertical

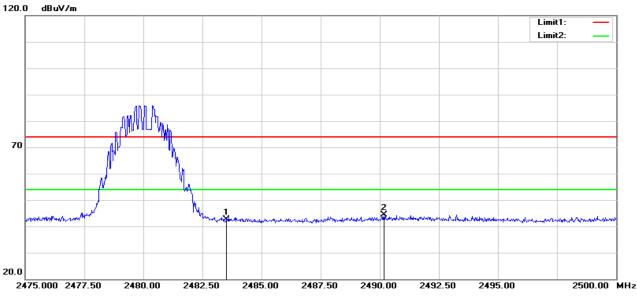


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.100	44.17	4.30	48.47	74.00	-25.53	peak
2	2390.000	42.76	4.34	47.10	74.00	-26.90	peak



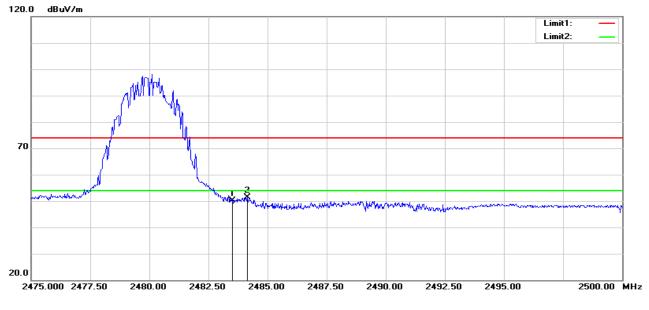
Page 27 of 56

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.04	4.60	42.64	74.00	-31.36	peak
2	2490.175	39.81	4.63	44.44	74.00	-29.56	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	45.59	4.60	50.19	74.00	-23.81	peak
2	2484.150	46.84	4.61	51.45	74.00	-22.55	peak



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

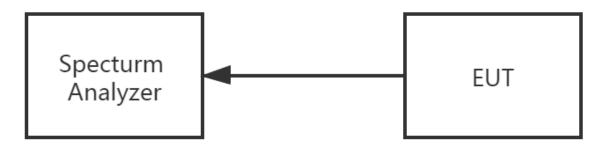
5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Stort/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



The EUT which is powered by the DC 5V, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



Page 29 of 56

5.5 TEST RESULTS

For the measurement records, refer to the appendix I.

Flux Compliance Service Laboratory Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS	

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz \ge RBW \ge 3 kHz.
- 4. Set the VBW \ge 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

6.5 TEST RESULTS

For the measurement records · refer to the appendix I.



7. BANDWIDTH TEST

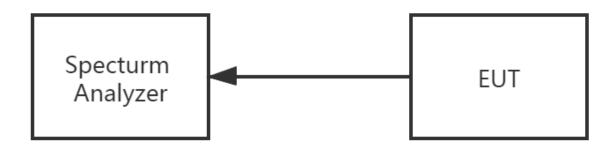
7.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.

7.5 TEST RESULTS

For the measurement records · refer to the appendix I.

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8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

 $RBW \ge DTS$ bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW \geq DTS bandwidth.

b) Set VBW \geq [3 × RBW].

c) Set span \geq [3 × RBW].

d) Sweep time = auto couple.

e) Detector = peak.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW \geq [3 \times RBW].

c) Set the span \geq [1.5 \times DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



Page 33 of 56

8.5 TEST RESULTS

For the measurement records · refer to the appendix I.

Flux Compliance Service Laboratory Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

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

9.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



Page 35 of 56

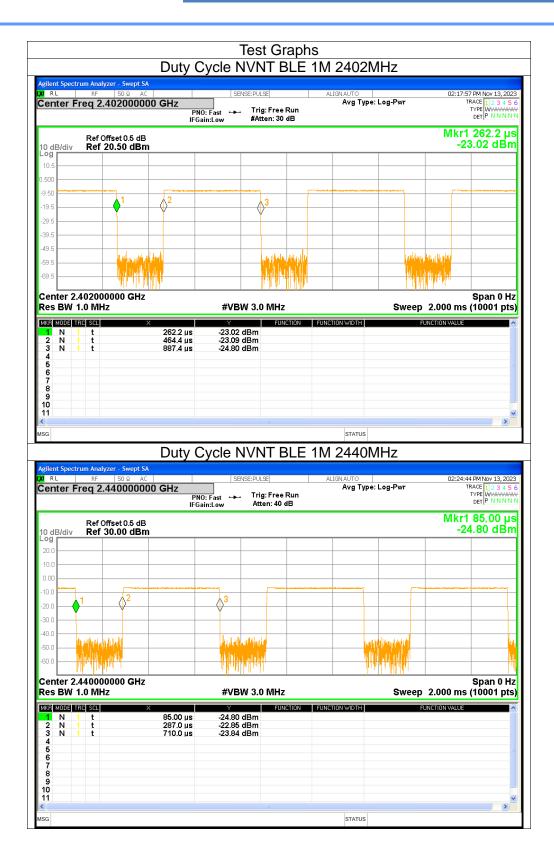
APPENDIX I: TEST RESULTS

1. DUTY CYCLE

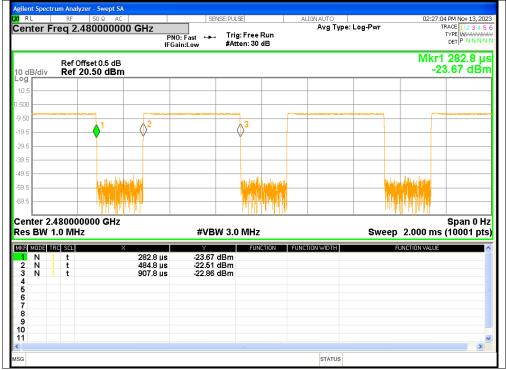
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	76.48	1.16	2.36
NVNT	BLE 1M	2440	76.48	1.16	2.36
NVNT	BLE 1M	2480	76.48	1.16	2.36







Duty Cycle NVNT BLE 1M 2480MHz





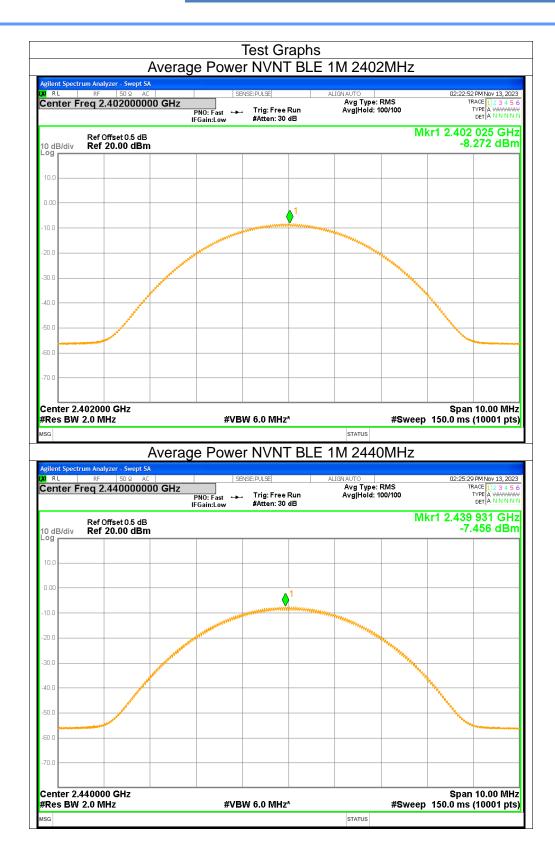
Page 38 of 56

2. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER

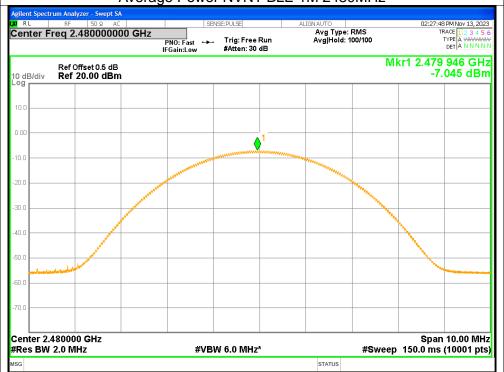
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-8.27	1.16	-7.11	<=30	Pass
NVNT	BLE 1M	2440	-7.46	1.16	-6.3	<=30	Pass
NVNT	BLE 1M	2480	-7.05	1.16	-5.89	<=30	Pass











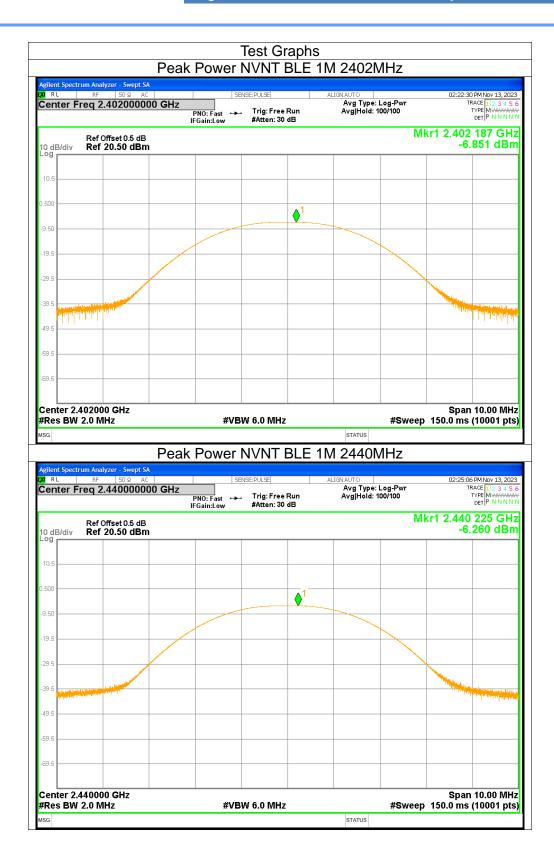
Average Power NVNT BLE 1M 2480MHz

Page 41 of 56

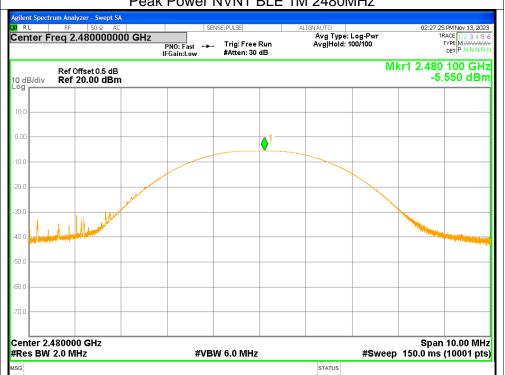
3. MAXIMUM PEAK CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-6.85	<=30	Pass
NVNT	BLE 1M	2440	-6.26	<=30	Pass
NVNT	BLE 1M	2480	-5.55	<=30	Pass









Peak Power NVNT BLE 1M 2480MHz

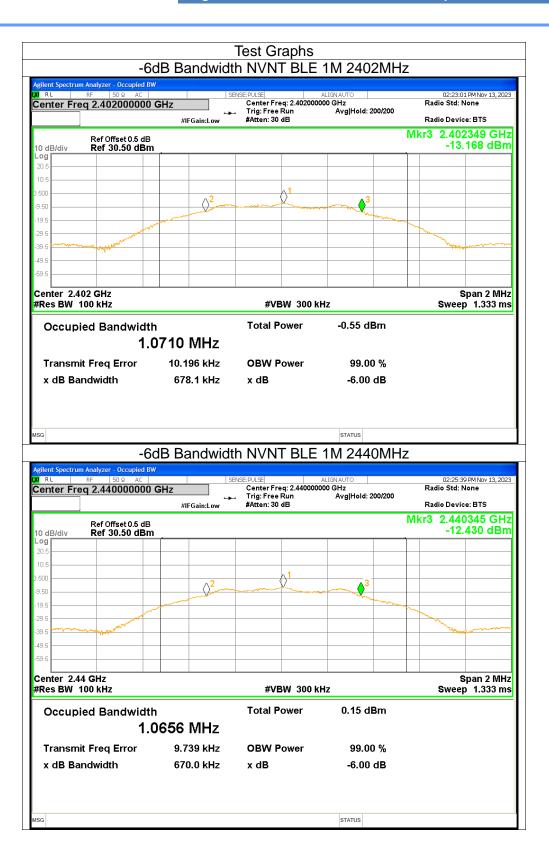


4. -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.68	>=0.5	Pass
NVNT	BLE 1M	2440	0.67	>=0.5	Pass
NVNT	BLE 1M	2480	0.66	>=0.5	Pass

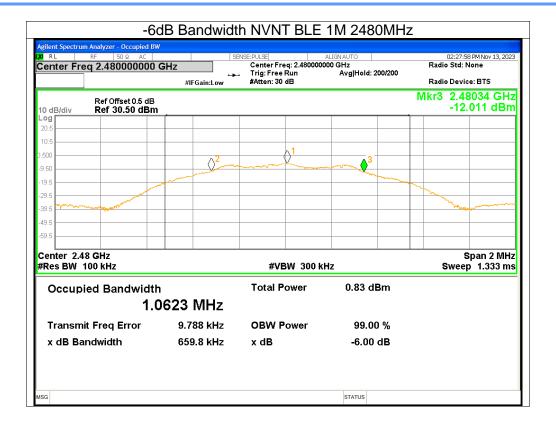


Page 45 of 56





Page 46 of 56





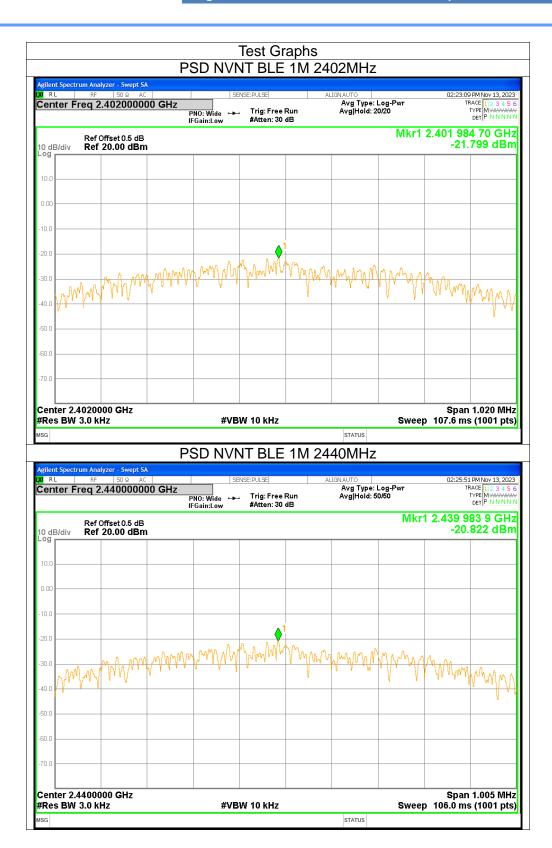
Page 47 of 56

5. MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-21.8	<=8	Pass
NVNT	BLE 1M	2440	-20.82	<=8	Pass
NVNT	BLE 1M	2480	-20.48	<=8	Pass



Page 48 of 56





Page 49 of 56

PSD NVNT BLE 1M 2480MHz

xi _{RL} Cent		RF 50 Ω AC		SE	NSE:PULSE		IGN AUTO Avg Type: I	_og-Pwr	TI	5 PM Nov 13, 2023 RACE 1 2 3 4 5
			Р	NO: Wide 🔸 Gain:Low	. Trig: Free F #Atten: 30 d		Avg Hold: 2			
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0.00										
-10.0										
20.0		A	MAMM	MAN	MMM	γ_{M}	1. 140. N. 1. N	Mashaa		
30.0 + 40.0 +	MMM		<u>↓</u>				W. M. M.		V WW	WANN
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60.0										
70.0										
	ter 2.480 s BW 3.0	0000 GHz kHz		#VB	W 10 kHz			Sweet		n 990.0 kHz s (1001 pts
ISG							STATUS	•		



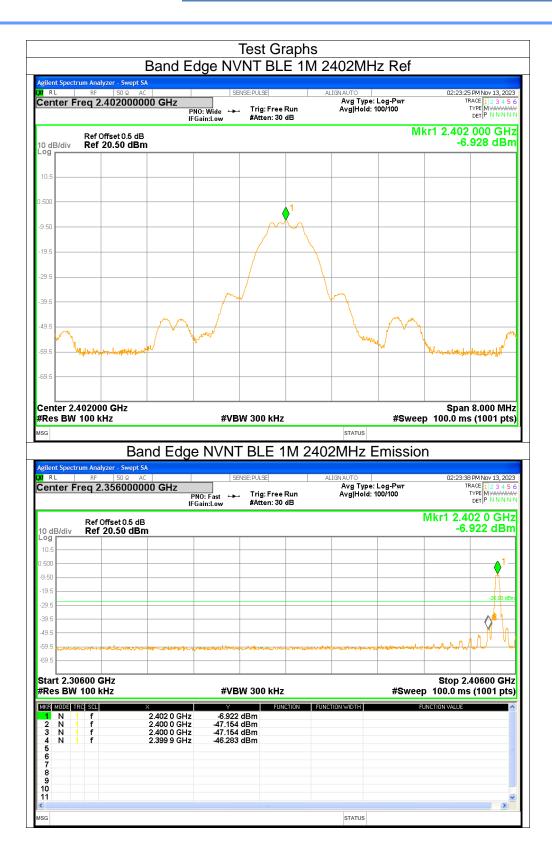


6. BAND EDGE

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-39.35	<=-20	Pass
NVNT	BLE 1M	2480	-45.89	<=-20	Pass



Page 51 of 56







Band Edge NVNT BLE 1M 2480MHz Ref



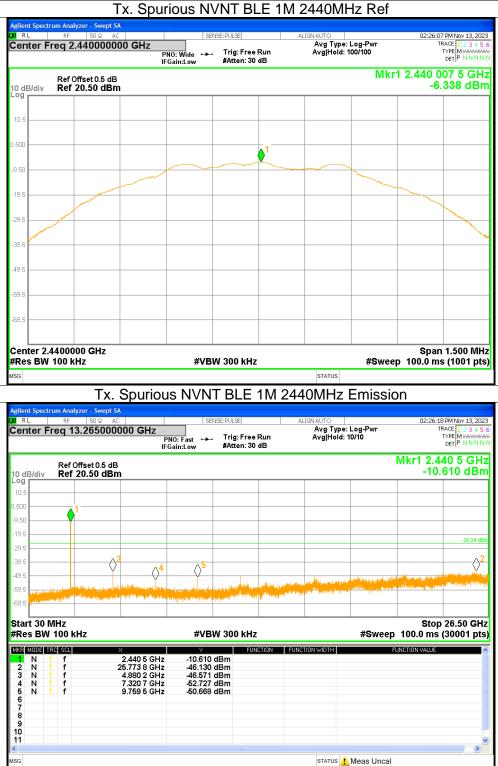
Page 53 of 56

7. CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-28.93	<=-20	Pass
NVNT	BLE 1M	2440	-39.78	<=-20	Pass
NVNT	BLE 1M	2480	-29.59	<=-20	Pass



		v Snur		Test Grap	ohs 1M 2402MI	Hz Rof	
vilent Spectrum	Analyzer - Swept SA	r. Spur	IUUS IN	VINI DLE			
RL	RF 50 Ω AC		SE	ENSE:PULSE	ALIGN AUTO		02:23:55 PM Nov 13, 2
enter Fre	q 2.40200000	Р	NO: Wide 🔸 Gain:Low	. Trig: Free Run Atten: 40 dB	Avg Type: Avg Hold: ′	Log-Pwr 100/100	TRACE 1 2 3 4 TYPE MWWW DET P N N N
	Ref Offset 0.5 dB Ref 30.00 dBm	17	Samedw			Mkr	1 2.402 007 5 G -6.917 dB
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30.0							
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enter 2.40 Res BW 10	20000 GHz						Span 1.500 M
	00 kHz		#VB	W 300 kHz		#Swee	
)0 kHz		#VB	W 300 kHz	STATUS	#Swee	p 100.0 ms (1001 p
		Spuriou			status 1 2402MHz		p 100.0 ms (1001 p
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SG gilent Spectrum / RL	Τχ. (Analyzer - Swept SA RF 50 Ω AC		is NVN	T BLE 1N	A 2402MHz Alignauto Avg Type:	Emissic	p 100.0 ms (1001 p DD 02:24:05 PM Nov 13, 2 TRACE 12 3 4
sg gilent Spectrum R L	Tx. S	00 GHz	is NVN		A 2402MHz Alignauto Avg Type:	Emissic	p 100.0 ms (1001 p)N 02:24:05 PM Nov 13,2
g <mark>ilent Spectrum</mark> RL Center Free	Tx. \$ Analyzer - Swept SA RF 50 & AC q 13.2650000 Ref Offset 0.5 dB	00 GHz IF	IS NVN	TBLE 1N	A 2402MHz Alignauto Avg Type:	Emissic	p 100.0 ms (1001 p DN 02:24:05 PM Nov 13,2 TRACE [1 3 4 TYPE [M WAN DET P N N N Mkr1 2,402 6 G
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gilent Spectrum RL Center Free 0 dB/div 20.0	Tx. \$ Analyzer - Swept SA RF 50 & AC q 13.2650000 Ref Offset 0.5 dB	00 GHz IF	IS NVN	TBLE 1N	A 2402MHz Alignauto Avg Type:	Emissic	p 100.0 ms (1001 p DN 02:24:05 PM Nov 13,2 TRACE [1 3 4 TYPE [M WAN DET P N N N Mkr1 2,402 6 G
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sg gilent Spectrum RL enter Free 0 dB/div 10.0 10.0 10.0	Tx. \$ Analyzer - Swept SA RF 50 & AC q 13.2650000 Ref Offset 0.5 dB	00 GHz IF	IS NVN	TBLE 1N	A 2402MHz Alignauto Avg Type:	Emissic	p 100.0 ms (1001 p DN 02:24:05 PM Nov 13,2 TRACE [1 3 4 TYPE [M WAN DET P N N N Mkr1 2,402 6 G
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sg glent Spectrum RL enter Free 0 dB/div 0 20.0 10.0	Tx. \$ Analyzer - Swept SA RF 50 & AC q 13.2650000 Ref Offset 0.5 dB	00 GHz	IS NVN	T BLE 1N	A 2402MHz		p 100.0 ms (1001 p 02:24:05 PMNov 13,2 TRACE [] 2 3 4 TYPE [MMMM out P NNN Mkr1 2.402 6 GF -12.613 dB
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sg glent Spectrum RL enter Free 0 dB/div 20.0 20.0 10.0 0.00 10.0 20.0 10	Tx. S	00 GHz	IS NVN SE NO: Fast Gain:Low	T BLE 1N	A 2402MHz	Emissic	p 100.0 ms (1001 p 02:24:05 PM Nov 13,2 TRACE [] 3 4 TVPE [M NNN DET N N N Mkr1 2.402 6 GH -12.613 dB
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SG File RL File Contert Free O B/div O <td>Tx. S</td> <td>00 GHz IF</td> <td>IS NVN</td> <td>T BLE 1N</td> <td></td> <td>Emissic</td> <td>2 -26.50 G 100.0 ms (1001 p 00 02:24:05 PMNov 13,2 TRACE [1 3 4 TYPE [M NAN 0ET P NNN Mkr1 2.402 6 GH -12.613 dB 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	Tx. S	00 GHz IF	IS NVN	T BLE 1N		Emissic	2 -26.50 G 100.0 ms (1001 p 00 02:24:05 PMNov 13,2 TRACE [1 3 4 TYPE [M NAN 0ET P NNN Mkr1 2.402 6 GH -12.613 dB 0 0 0 0 0 0 0 0 0 0 0 0 0
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sg glent Spectrum RL enter Fre 0 dB/div 9 20.0 10.0 0.00 10.0 20.0 20.0	Tx. S	00 GHz IF	IS NVN SE Seat. → Gain:Low 5 #VB -12.613 -36.851 -47.263	T BLE 1N SUSE:PULSE Trig: Free Run Atten: 40 dB W 300 kHz GBm dBm dBm dBm dBm dBm		Emissic	2 -26.50 G 100.0 ms (1001 p 00 02:24:05 PMNov 13,2 TRACE [1 3 4 TYPE [M NAN 0ET P NNN Mkr1 2.402 6 GH -12.613 dB 0 0 0 0 0 0 0 0 0 0 0 0 0
sg glent Spectrum RL enter Fre 0 dB/div 9 20.0 10.0 0.00 10.0 20.0 20.0	Tx. S	2.402 6 GHz 2.796 5 GHz 4.804 3 GHz 7.088 7 GHz	IS NVN SE NO: Fast Gain:Low #VE #VE 47.263 -47.263	T BLE 1N SUSE:PULSE Trig: Free Run Atten: 40 dB W 300 kHz GBm dBm dBm dBm dBm dBm		Emissic	2 -26.50 G 100.0 ms (1001 p 00 02:24:05 PMNov 13,2 TRACE [1 3 4 TYPE [M NAN 0ET P NNN Mkr1 2.402 6 GH -12.613 dB 0 0 0 0 0 0 0 0 0 0 0 0 0
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	m Analyzer - Swept SA				
enter Fr	RF 50 Ω AC eq 2.480000000 G	SHz PNO: Wide IFGain:Low	SENSE:PULSE Trig: Free Run Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	02:28:53 PM Nov 13, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
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sg gilent Spectru d RL Center Fr 10 dB/div -9g 20.0	Tx. Sp m Analyzer - Swept SA RF 50 0 AC eq 13.265000000 Ref Offset 0.5 dB	OUTIOUS NV	SENSE:PULSE	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	000 02:29:04 PM Nov 13, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Mkr1 2.480 2 GH2
sg gilent Spectru a RL Center Fr 20.0 20.0 10.0	Tx. Sp m Analyzer - Swept SA RF 50 0 AC eq 13.265000000 Ref Offset 0.5 dB	OUTIOUS NV	SENSE:PULSE	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	000 02:29:04 PM Nov 13, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Mkr1 2.480 2 GH2
sg gilent Spectru d RL Center Fr 10 dB/div -9g 20.0	Tx. Sp m Analyzer - Swept SA RF 50 0 AC eq 13.265000000 Ref Offset 0.5 dB	OUTIOUS NV	SENSE:PULSE	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	000 02:29:04 PM Nov 13, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Mkr1 2.480 2 GH2
sc gllent Spectru a RL Center Fr 0 dB/div 0 g 20.0 10.0 10.0 20	Tx. Sp m Analyzer - Swept SA RF 50 0 AC eq 13.265000000 Ref Offset 0.5 dB	OUTIOUS NV	SENSE:PULSE	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	000 02:29:04 PM Nov 13, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N Mkr1 2.480 2 GH2
sc gllent Spectru a RL Center Fr 0 dB/div 0 g 20.0 10.0 0.00 10.0	Tx. Sp m Analyzer - Swept SA RF 50 0 AC eq 13.265000000 Ref Offset 0.5 dB	OUTIOUS NV	SENSE:PULSE SENSE:PULSE → Trig: Free Run Atten: 40 dB	STATUS 2480MHz Emissie ALICNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	001 02:29:04 PM Nov 13,202 TRACE 12 3 4 5 TYPE MMWWWW OET P N NN Mkr1 2.480 2 GHz -9.775 dBm
sc glent Spectru Center Fr 20.0 20.0 10.0 10.0 20.0 10.0 20.0	Tx. Sp m Analyzer - Swept SA RF 50 Q AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm	GHz PNO: Fast IFGain:Low	SENSE:PULCE	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	001 02:29:04 PM Nov 13,202 TRACE 12 3 4 5 TYPE MMWWWW OET P N NN Mkr1 2.480 2 GHz -9.775 dBm
sc glient Spectru (RL Center Fr 20 20 20 20 20 20 20 20 20 20	Tx. Sp RF 50 a AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm	GHz PNO: Fast IFGain:Low	SENSE:PULSE → Trig: Free Run Atten: 40 dB	STATUS 2480MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	001 02:29:04 PM Nov 13,202 TRACE 12 3 4 5 TYPE MMWWWW OET P N NN Mkr1 2.480 2 GHz -9.775 dBm
sc glient Spectru R L Center Fr 20 20 20 20 20 20 20 20 20 20	Tx. Sp RF 50 & AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm	GHZ PNO: Fast IFGain:Low	NT BLE 1M SENSE:PULSE → Trig: Free Run Atten: 40 dB → 1 ↓ ↓	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25
sc glient Spectru R R Center Fr 200 200 200 200 200 200 200 20	Tx. Sp m Analyzer - Swept SA RF 50 & AC eq 13.2650000000 Ref Offset 0.5 dB Ref 30.00 dBm	PNO: Fast IFGain:Low	SENSE:PULSE SENSE:PULSE → Trig: Free Run Atten: 40 dB	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA Mkr1 2:480 2 GH2 -9.775 dBrr -25.59 gBr -25.59 gBr -25.59 gBr -25.59 gBr -25.59 gBr -25.59 gBr -25.59 gBr -25.50 gBr
sc glient Spectru R L Center Fr 20.0	Tx. Sp m Analyzer - Swept SA RF 50 & AC eq 13.2650000000 Ref Offset 0.5 dB Ref 30.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PUTIOUS NV	SENSE:PULSE SENSE:PULSE → Trig: Free Run Atten: 40 dB SENSE:PULSE VBW 300 KHz FUNCTION 775 dBm 274 dBm 788 dBm	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25
sc gilent Spectru @ RL	Tx. Sp RF 50 & AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PUTIOUS NV GHz PNO: Fast IFGain:Low # # 0 2 GHz 8 0 GHz 96 GHz 44. 4 1 1 1 3 GHz 47.	SENSE:PULSE SENSE:PULSE Trig: Free Run Atten: 40 dB	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25
sc glient Spectru R L Center Fr 20.0	Tx. Sp RF 50 & AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PUTIOUS NV GHz PNO: Fast IFGain:Low # # 0 2 GHz 8 0 GHz 96 GHz 44. 4 1 1 1 3 GHz 47.	SENSE: PULSE SENSE: PULSE → Trig: Free Run Atten: 40 dB > <	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25
sc gilent Spectru Q RL	Tx. Sp RF 50 & AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PUTIOUS NV GHz PNO: Fast IFGain:Low # # 0 2 GHz 8 0 GHz 96 GHz 44. 4 1 1 1 3 GHz 47.	SENSE: PULSE SENSE: PULSE → Trig: Free Run Atten: 40 dB > <	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25
sc glient Spectru R L Center Fr 20.0	Tx. Sp RF 50 & AC eq 13.265000000 Ref Offset 0.5 dB Ref 30.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PUTIOUS NV GHz PNO: Fast IFGain:Low # # 0 2 GHz 8 0 GHz 96 GHz 44. 4 1 1 1 3 GHz 47.	SENSE: PULSE SENSE: PULSE → Trig: Free Run Atten: 40 dB > <	STATUS 2480MHz Emissio ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 	ON 02:29:04 PM Nov 13, 202 TRACE [] 2:3 4 5 TYPE MANNA DET P N N N Mkr1 2:480 2 GH2 -9.775 dBrr -9.775 dBrr -25 68 gm -25

Tx Spurious NI/NT BLE 1M 2480MHz Pof

* * * * * END OF THE REPORT * * * * *