

RADIO TEST REPORT

S T S

Report No.:STS2305027W01

Issued for

RABO, Inc.

3-9-19 Higashi, VORT Ebisu maxim 2F, Shibuya-ku, Tokyo, Japan

Product Name:	Catlog Board v1
Brand:	Catlog
Model Number:	300010000
Series Model(s):	N/A
FCC ID:	2AXY2-CB
Test Standard:	FCC Part 15.247

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APPROV

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TEST RESULT CERTIFICATION

Applicant's Name:	RABO, Inc.
Address	3-9-19 Higashi, VORT Ebisu maxim 2F, Shibuya-ku, Tokyo, Japan
Manufacturer's Name	RABO, Inc.
Address	3-9-19 Higashi, VORT Ebisu maxim 2F, Shibuya-ku, Tokyo, Japan
Product Description	
Product Name:	Catlog Board v1
Brand	Catlog
Model Number	. 300010000
Series Model(s):	N/A
Test Standards	FCC Part15.247
Test Procedure	ANSI C63.10-2013

This device described above has been tested by STS, 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 of receipt of test item 08 May 2023

Test Result	Pass
Date of Issue	15 May 2023
Date (s) of performance of tests:	08 May 2023 ~ 15 May 2023

Testing Engineer

(Chris Chen)

Technical Manager

(Sean she)



Authorized Signatory :

unly hover

(Bovey Yang)

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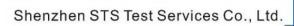
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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	15 May 2023	STS2305027W01	ALL	Initial Issue



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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	lest Item						
15.207	Conducted Emission	N/A					
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 bands of operation	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.

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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

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	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Catlog Board v1			
Brand	Catlog			
Model Number	300010000			
Series Model(s)	N/A			
Model Difference	N/A			
	The EUT is a Catlog	g Board v1		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
Product Description	Bluetooth	LE(Support 1M DLIV)		
	Configuration:	LE(Support 1M PHY)		
	Number Of Channel:	40		
	Antenna Type:	РСВ		
	Antenna Gain (dBi) 0dBi			
Channel List	Please refer to the Note 3.			
Rating	Input: AA Battery (3*1.5V AA)			
Hardware version number	1.0			
Software version number	N/A			
Connecting I/O Port(s)	Please refer to the I	Note 1.		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

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3.									
	Channel List								
	Channel Frequency (MHz) Frequency Channel Frequency (MHz) Frequency (MHz) Frequency Channel Frequency 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	

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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 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/GFSK

Note:

(1) We tested for all available 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.

(2) The battery is fully-charged during the radiated and RF conducted test.

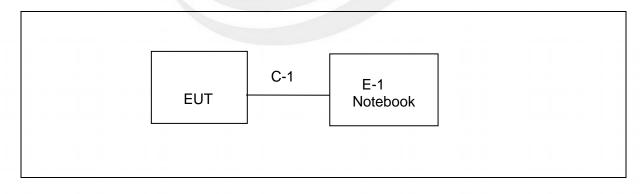
2.3 TEST SOFTWARE AND POWER LEVEL

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	Default	nRFgo Studio

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test







2.5 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.

	Necessary accessories				
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	N/A	N/A	150cm	NO

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.
- (2) "YES" is means "with core"; "NO" is means "without core".



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2.6 EQUIPMENTS LIST

		RF Radiation Tes	t Equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
18GHz-40GHz Filter	XINGBO	XBLBQ-GTA44	22062003-1	2023.03.06	2024.03.05
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2023.03.06	2024.03.05
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.10
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW EZ-EMC			Ver.STSLAB-03A	1 RE	
		Conduction Test	equipment		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	EZ-EMC		Ver.STSLAB-03A	1 CE	
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2023.03.01	2024.02.28
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
Test SW	MW		MTS 8310_2.0	.0.0	

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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

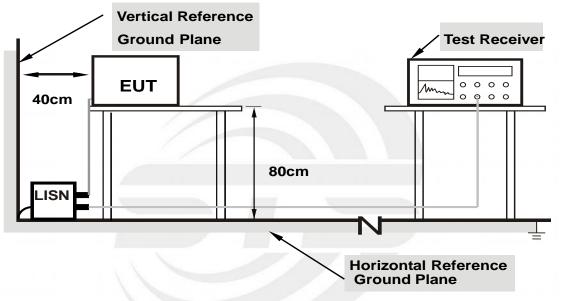
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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

Temperature:	(C)	Relative Humidity:	%RH
Test Voltage:	DC 4.5V	Phase:	L/N
Test Mode:	N/A		

Note: EUT is only power by DC Power, So it is not applicable for this test.





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. 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 (Frequency Range 9kHz-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 (Above 1000MHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	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			

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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)/
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);
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)
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)
band)	1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting					
Detector	Peak/AV					
Start/Stop Fraguaday	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)					

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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

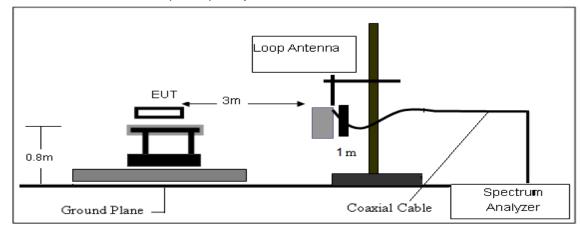
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

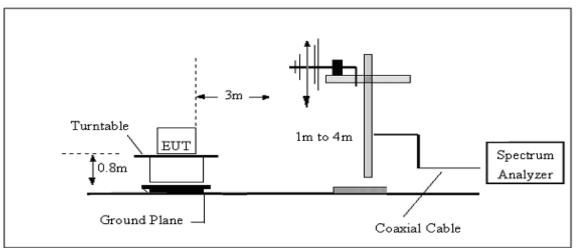


4.3 TEST SETUP

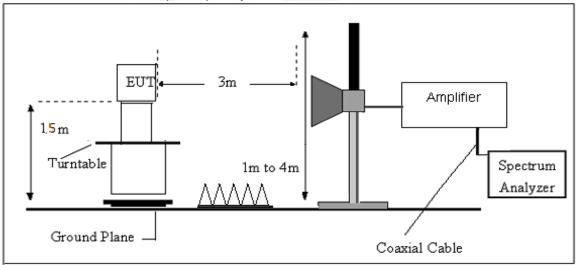
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 - AGWhere 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

(Between 9KHz - 30 MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 4.5V	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



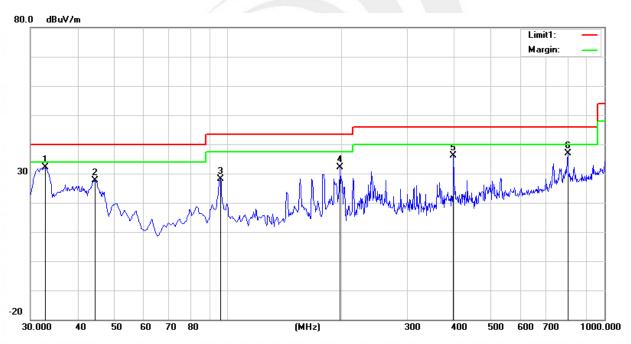
(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH					
Test Voltage:	DC 4.5V	Phase:	Horizontal					
Test Mode:	Mode 1/2/3 (Mode 2 worst mo	Mode 1/2/3 (Mode 2 worst mode)						

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	46.42	-14.33	32.09	40.00	-7.91	peak
2	44.5500	48.18	-20.43	27.75	40.00	-12.25	peak
3	95.9600	48.77	-20.67	28.10	43.50	-15.40	peak
4	198.7800	53.22	-21.12	32.10	43.50	-11.40	peak
5	398.6000	47.26	-11.20	36.06	46.00	-9.94	peak
6	799.2100	38.84	-2.04	36.80	46.00	-9.20	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





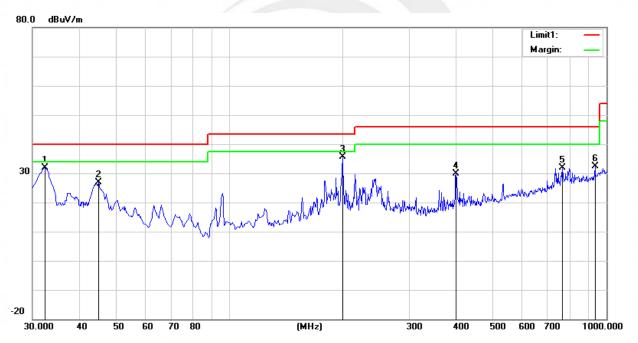
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Temperature:	23.1(C)	Relative Humidity:	60%RH					
Test Voltage:	DC 4.5V	Phase:	Vertical					
Test Mode:	Mode 1/2/3 (Mode 2 worst mo	Mode 1/2/3 (Mode 2 worst mode)						

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.4060	46.02	-14.08	31.94	40.00	-8.06	peak
2	44.9006	47.38	-20.60	26.78	40.00	-13.22	peak
3	199.7500	56.64	-21.11	35.53	43.50	-7.97	peak
4	399.5700	40.94	-11.16	29.78	46.00	-16.22	peak
5	765.2600	34.19	-2.25	31.94	46.00	-14.06	peak
6	933.0700	31.68	0.80	32.48	46.00	-13.52	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



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(1GHz-25GHz) Spurious emission Requirements

GFSK

Comment	Detector	Margin	Limits	Emission Level	Corrected Factor	Antenna Factor	Loss	Amplifier	Meter Reading	Frequency			
	Туре	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dB/m)	(dB)	(dB)	(dBµV)	(MHz)			
	Low Channel (GFSK/2402 MHz)												
Vertical	PK	-22.50	74.00	51.50	-9.80	28.20	6.70	44.70	61.30	3264.60			
Vertical	AV	-12.75	54.00	41.25	-9.80	28.20	6.70	44.70	51.05	3264.60			
Horizontal	PK	-21.59	74.00	52.41	-9.80	28.20	6.70	44.70	62.21	3264.68			
Horizontal	AV	-13.57	54.00	40.43	-9.80	28.20	6.70	44.70	50.23	3264.68			
Vertical	PK	-19.06	74.00	54.94	-3.56	31.60	9.04	44.20	58.50	4804.46			
Vertical	AV	-7.68	54.00	46.32	-3.56	31.60	9.04	44.20	49.88	4804.46			
Horizontal	PK	-18.44	74.00	55.56	-3.56	31.60	9.04	44.20	59.12	4804.53			
Horizontal	AV	-8.25	54.00	45.75	-3.56	31.60	9.04	44.20	49.31	4804.53			
Vertical	PK	-27.66	74.00	46.34	-2.34	32.00	9.86	44.20	48.68	5359.60			
Vertical	AV	-16.71	54.00	37.29	-2.34	32.00	9.86	44.20	39.63	5359.60			
Horizontal	PK	-29.21	74.00	44.79	-2.34	32.00	9.86	44.20	47.13	5359.64			
Horizontal	AV	-17.00	54.00	37.00	-2.34	32.00	9.86	44.20	39.34	5359.64			
Vertical	PK	-16.51	74.00	57.49	3.40	35.50	11.40	43.50	54.09	7205.90			
Vertical	AV	-6.64	54.00	47.36	3.40	35.50	11.40	43.50	43.96	7205.90			
Horizontal	PK	-16.26	74.00	57.74	3.40	35.50	11.40	43.50	54.34	7205.81			
Horizontal	AV	-6.32	54.00	47.68	3.40	35.50	11.40	43.50	44.28	7205.81			
				/2440 MHz)	Channel (GFSK	Middle (
Vertical	PK	-22.55	74.00	51.45	-9.80	28.20	6.70	44.70	61.25	3263.08			
Vertical	AV	-13.27	54.00	40.73	-9.80	28.20	6.70	44.70	50.53	3263.08			
Horizontal	PK	-22.04	74.00	51.96	-9.80	28.20	6.70	44.70	61.76	3263.11			
Horizontal	AV	-12.76	54.00	41.24	-9.80	28.20	6.70	44.70	51.04	3263.11			
Vertical	PK	-18.96	74.00	55.04	-3.56	31.60	9.04	44.20	58.60	4880.06			
Vertical	AV	-7.81	54.00	46.19	-3.56	31.60	9.04	44.20	49.75	4880.06			
Horizontal	PK	-19.35	74.00	54.65	-3.56	31.60	9.04	44.20	58.21	4880.15			
Horizontal	AV	-7.09	54.00	46.91	-3.56	31.60	9.04	44.20	50.47	4880.15			
Vertical	PK	-27.72	74.00	46.28	-2.34	32.00	9.86	44.20	48.62	5357.24			
Vertical	AV	-16.94	54.00	37.06	-2.34	32.00	9.86	44.20	39.40	5357.24			
Horizontal	PK	-27.87	74.00	46.13	-2.34	32.00	9.86	44.20	48.47	5357.39			
Horizontal	AV	-17.61	54.00	36.39	-2.34	32.00	9.86	44.20	38.73	5356.97			
Vertical	PK	-16.79	74.00	57.21	3.40	35.50	11.40	43.50	53.81	7320.85			
Vertical	AV	-5.81	54.00	48.19	3.40	35.50	11.40	43.50	44.79	7320.85			
Horizontal	PK	-15.62	74.00	58.38	3.40	35.50	11.40	43.50	54.98	7320.47			
Horizontal	AV	-5.82	54.00	48.18	3.40	35.50	11.40	43.50	44.78	7320.47			



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				High Char	nnel (GFSK/	2480 MHz)				
3264.70	60.94	44.70	6.70	28.20	-9.80	51.14	74.00	-22.86	PK	Vertical
3264.70	50.57	44.70	6.70	28.20	-9.80	40.77	54.00	-13.23	AV	Vertical
3264.66	61.22	44.70	6.70	28.20	-9.80	51.42	74.00	-22.58	PK	Horizontal
3264.66	50.99	44.70	6.70	28.20	-9.80	41.19	54.00	-12.81	AV	Horizontal
4960.46	59.22	44.20	9.04	31.60	-3.56	55.66	74.00	-18.34	PK	Vertical
4960.46	50.17	44.20	9.04	31.60	-3.56	46.61	54.00	-7.39	AV	Vertical
4960.38	59.56	44.20	9.04	31.60	-3.56	56.00	74.00	-18.00	PK	Horizontal
4960.38	49.76	44.20	9.04	31.60	-3.56	46.20	54.00	-7.80	AV	Horizontal
5359.88	49.02	44.20	9.86	32.00	-2.34	46.68	74.00	-27.32	PK	Vertical
5359.88	40.37	44.20	9.86	32.00	-2.34	38.02	54.00	-15.98	AV	Vertical
5359.64	47.90	44.20	9.86	32.00	-2.34	45.56	74.00	-28.44	PK	Horizontal
5359.64	39.19	44.20	9.86	32.00	-2.34	36.85	54.00	-17.15	AV	Horizontal
7439.69	54.19	43.50	11.40	35.50	3.40	57.59	74.00	-16.41	PK	Vertical
7439.69	44.01	43.50	11.40	35.50	3.40	47.41	54.00	-6.59	AV	Vertical
7439.89	54.62	43.50	11.40	35.50	3.40	58.02	74.00	-15.98	PK	Horizontal
7439.89	44.34	43.50	11.40	35.50	3.40	47.74	54.00	-6.26	AV	Horizontal

Note:

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

Emission Level = Reading + Factor

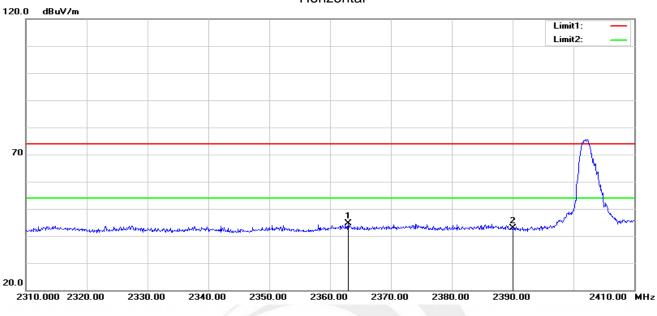
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



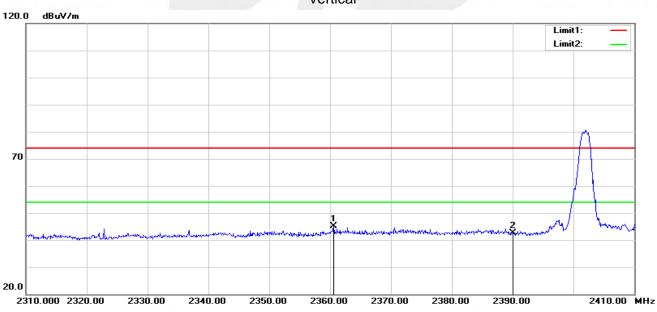
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4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2363.000	40.75	3.93	44.68	74.00	-29.32	peak
2	2390.000	38.56	4.34	42.90	74.00	-31.10	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.600	41.12	3.90	45.02	74.00	-28.98	peak
2	2390.000	38.23	4.34	42.57	74.00	-31.43	peak

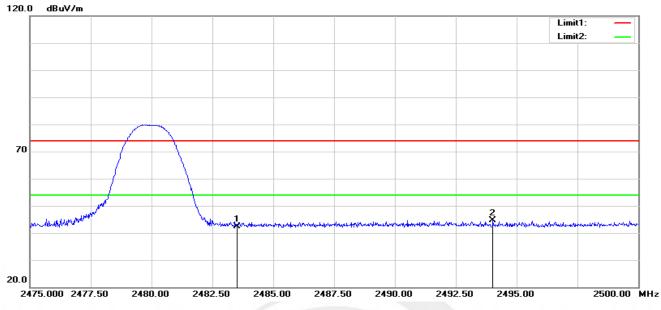
Vertical



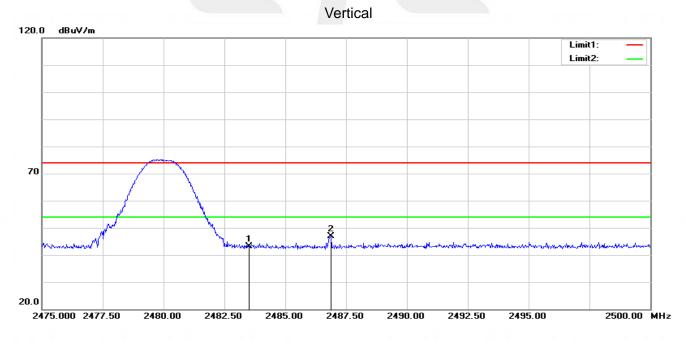
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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.69	4.60	42.29	74.00	-31.71	peak
2	2494.025	39.91	4.63	44.54	74.00	-29.46	peak



No.	Frequency	Reading	Correct	Result Limit		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.54	4.60	43.14	74.00	-30.86	peak
2	2486.875	42.29	4.62	46.91	74.00	-27.09	peak



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

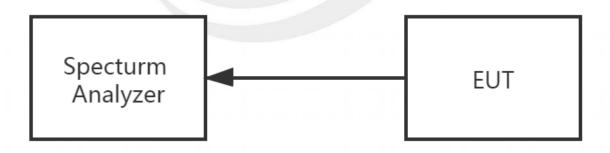
According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth 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		

Spectrum Parameter	Setting			
Detector	Peak			
Stort/Stop Eroguopov	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 is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna termina 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.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



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 \geq 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

Specturm Analyzer	EUT
----------------------	-----

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

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



7. BANDWIDTH TEST

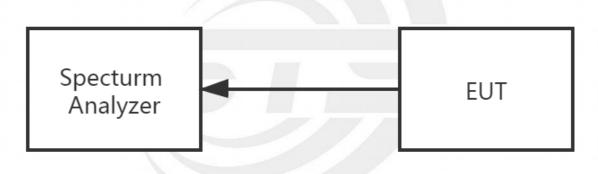
7.1 LIMIT

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

Note: The test data please refer to APPENDIX 1.



8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C							
Section	Test Item	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 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

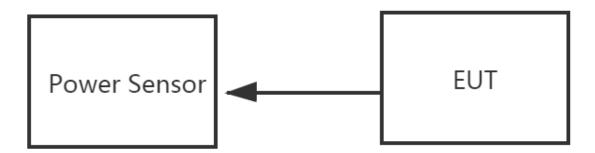
g) Allow trace to fully stabilize.

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.





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

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



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.

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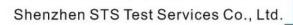


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APPENDIX 1-TEST DATA

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	16.86	7.73	9.49
NVNT	BLE 1M	2440	16.86	7.73	9.49
NVNT	BLE 1M	2480	16.86	7.73	9.49





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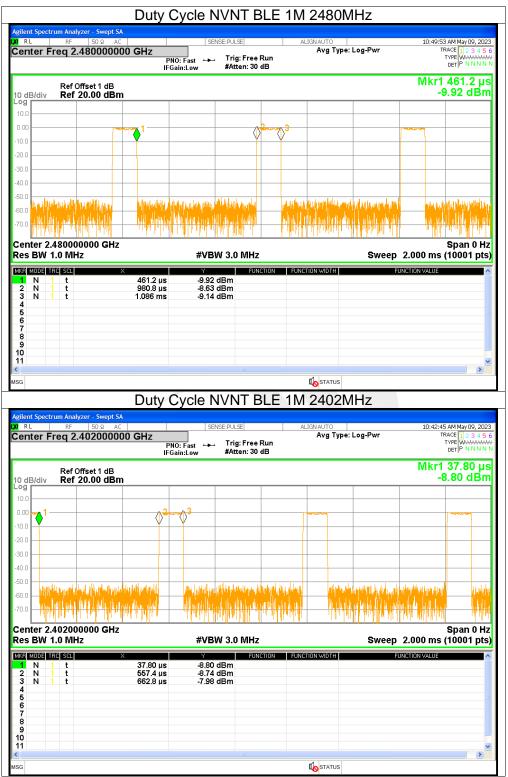
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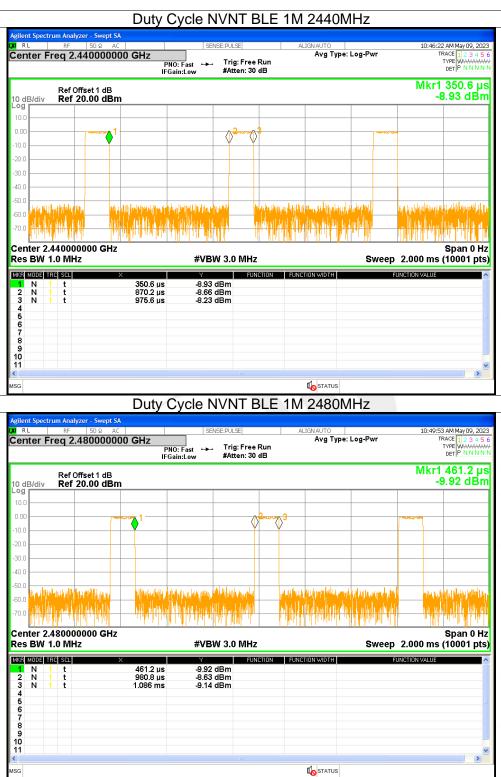
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2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-7.8	7.73	-0.07	<=30	Pass
NVNT	BLE 1M	2440	-7.65	7.73	0.08	<=30	Pass
NVNT	BLE 1M	2480	-8.06	7.73	-0.33	<=30	Pass

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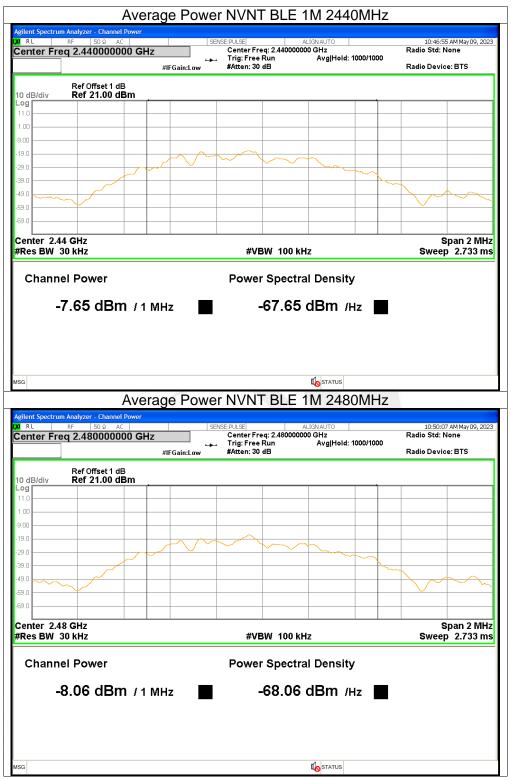


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3. Maximum Peak Conducted Output Power

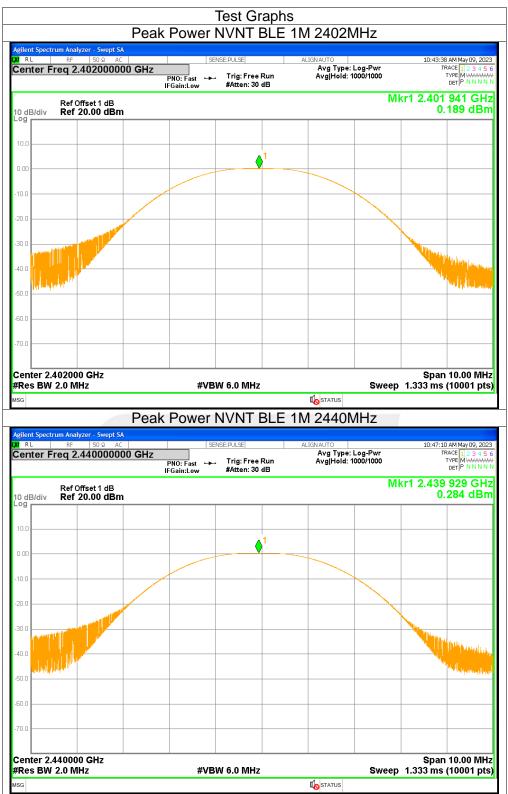
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.19	<=30	Pass
NVNT	BLE 1M	2440	0.28	<=30	Pass
NVNT	BLE 1M	2480	-0.12	<=30	Pass

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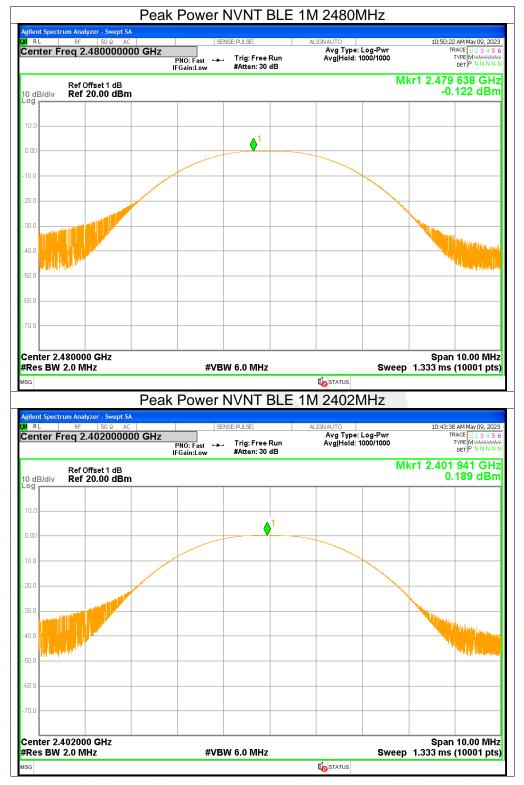
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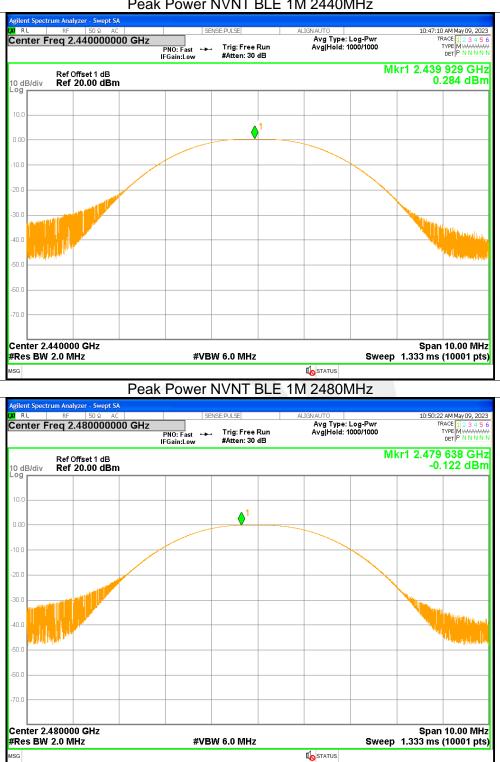
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Peak Power NVNT BLE 1M 2440MHz



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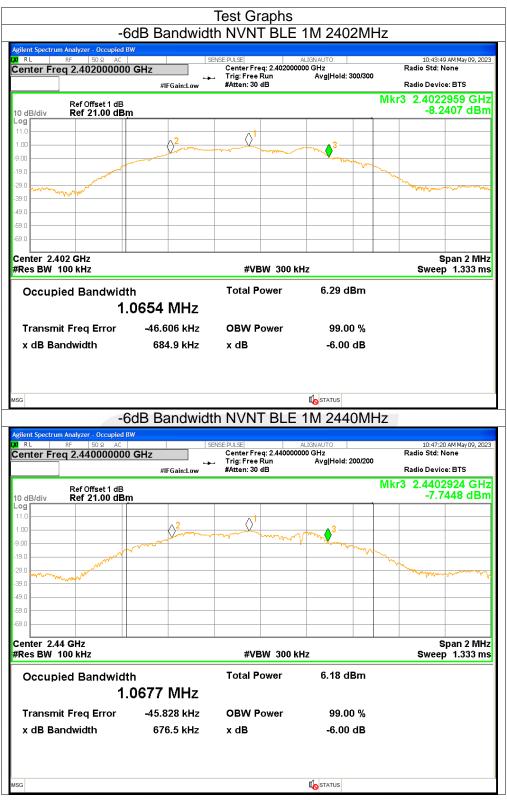
4. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6849	>=0.5	Pass
NVNT	BLE 1M	2440	0.6765	>=0.5	Pass
NVNT	BLE 1M	2480	0.6768	>=0.5	Pass

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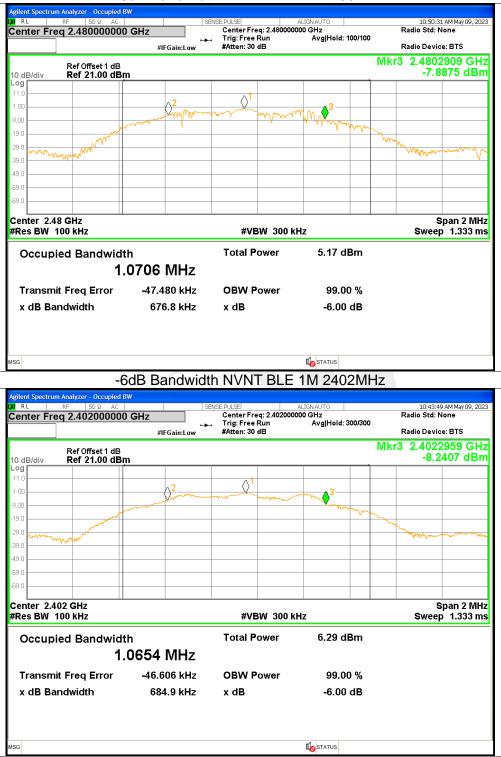




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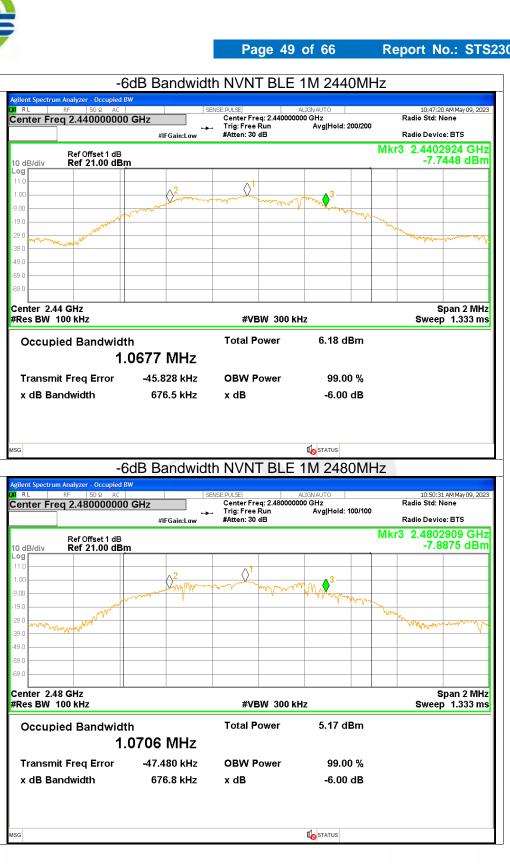
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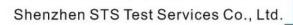




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5. Maximum Power Spectral Density Level

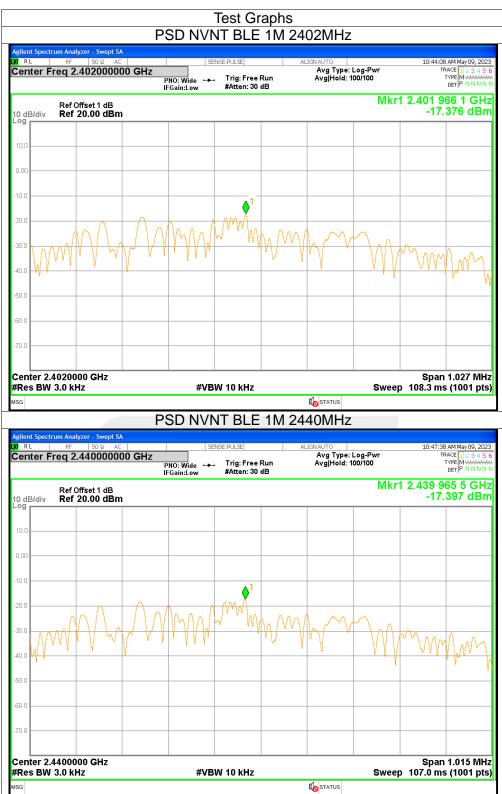
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-17.38	<=8	Pass
NVNT	BLE 1M	2440	-17.4	<=8	Pass
NVNT	BLE 1M	2480	-17.95	<=8	Pass





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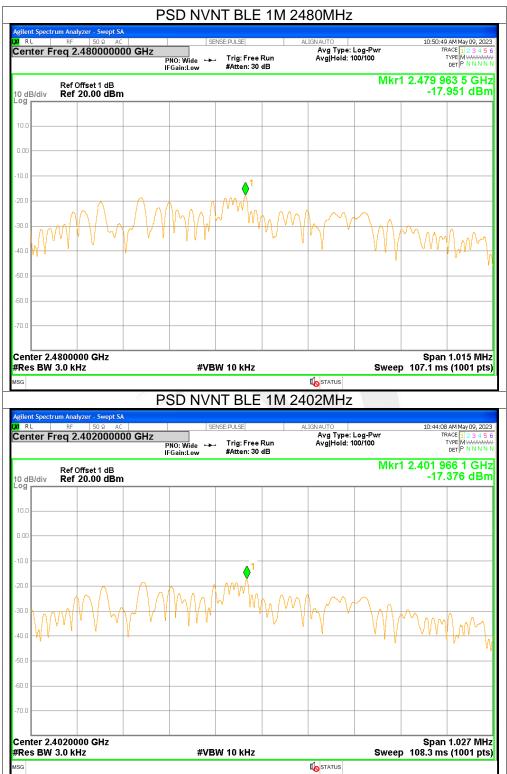
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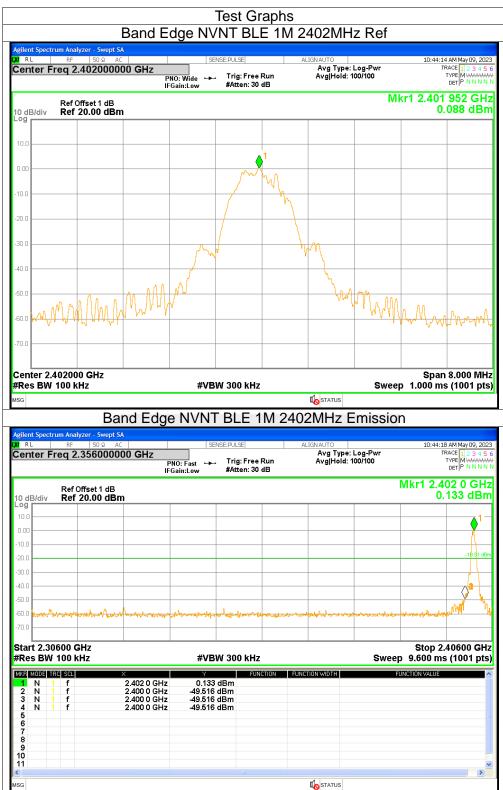
6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-49.6	<=-20	Pass
NVNT	BLE 1M	2480	-55.82	<=-20	Pass

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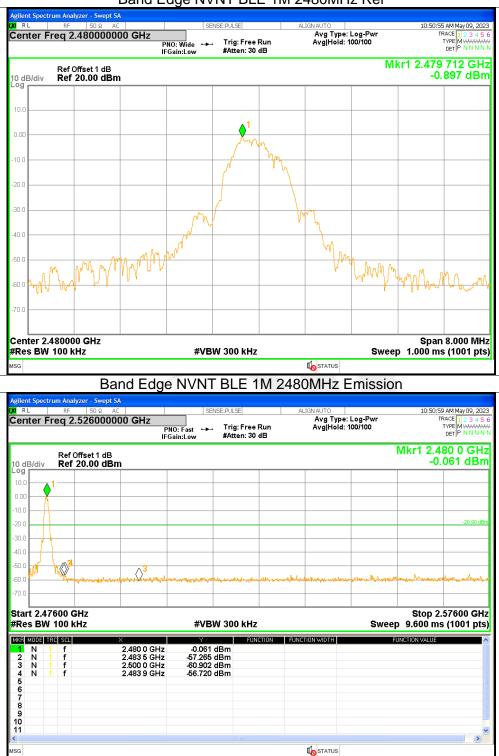


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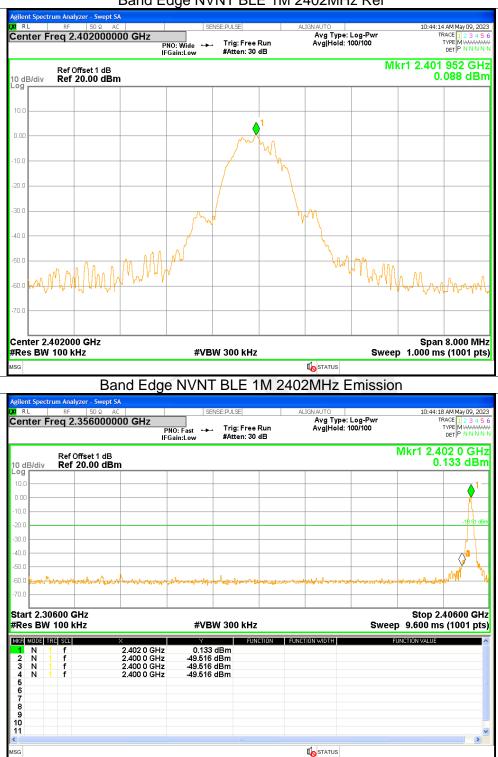
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Band Edge NVNT BLE 1M 2480MHz Ref



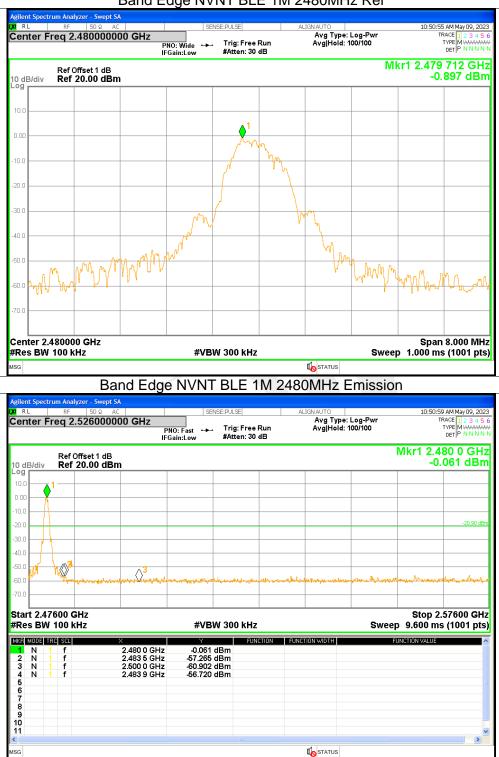
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Band Edge NVNT BLE 1M 2402MHz Ref



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Band Edge NVNT BLE 1M 2480MHz Ref



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7. Conducted RF Spurious Emission

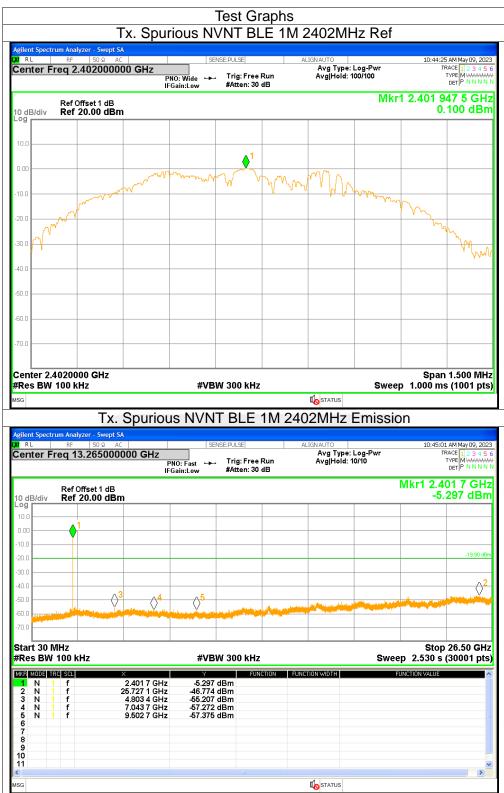
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-46.87	<=-20	Pass
NVNT	BLE 1M	2440	-46.11	<=-20	Pass
NVNT	BLE 1M	2480	-46.47	<=-20	Pass

Shenzhen STS Test Services Co., Ltd.



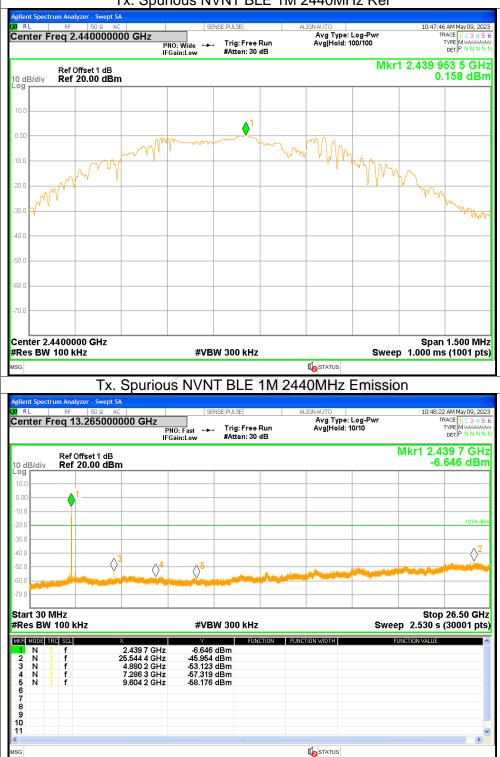
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Report No.: STS2305027W01





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Tx. Spurious NVNT BLE 1M 2440MHz Ref



RL RF Center Freq 2.48	Р		≆ ∷Free Run en: 30 dB	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 00/100	10:51:06 AM May 09, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offs	et 1 dB	Galli:Low #ou			Mkr1 2	2.479 946 0 GH
0 dB/div Ref 20	.00 dBm					-0.217 dBr
10.0						
			● ¹			
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70.0						
enter 2.4800000		#\/D\W/ 20/) <i>L</i> -		Owen	Span 1.500 MH
Res BW 100 kHz		#VBW 30			Sweep	1.000 ms (1001 pt
				I STATUS		
	Tx Sourior	IS NVNT B	IE1M2	•	Emission	
gilent Spectrum Analyze	Tx. Spuriou	is NVNT B	LE 1M 2	•	Emission	
RL RF	r - Swept SA 50 Ω AC	SENSE:PUL:	3E		Log-Pwr	10:51:42 AM May 09, 20 TRACE 1 2 3 4 5
RL RF	r - Swept SA 50 Ω AC 265000000 GHz	SENSE:PUL:		480MHz I	Log-Pwr	TRACE 1 2 3 4 5 TYPE MWMMM
RL RF Renter Freq 13.2 Ref Offs	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	TRACE 12345 TYPE MWWW DET P N N N (r1 2.480 2 GH
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20	r - Swept SA 50 Ω AC 265000000 GHz F IF	SENSE:PUL:	E		Log-Pwr 0/10	TRACE 12345 TYPE MWWW DET P N N N (r1 2.480 2 GH
RL RF Ref Offs 0 dB/div Ref 20 Pg 10.0	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	TRACE 12345 TYPE MWWW DET P N N N (r1 2.480 2 GH
RL RF Ref Offs 0 dB/div Ref 20 0 dB/div 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	TRACE 12345 TYPE MWWW DET P N N N (r1 2.480 2 GH
RL RF Ref Offs 0 dB/div Ref 20 0.00 10.0 10.0	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	rrace [] 2 3 4 TYPE MWWWW Der P NNNN (r1 2.480 2 GH -1.822 dBr
RL RF Ref Offs 0 dB/div Ref 20 9 10.0 0.00 10.0 0.00	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	rrace [] 23 45 TYPE [] 23 45 OET P NNNN (r1 2.480 2 GH -1.822 dBr
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 div Ref 20 0 div Ref 20 0 div Ref 20 0 div Ref 20	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 0/10	10:51:42 AM May 09, 20 TRACE 11:3 4 5 TYPE M WWWW OFF P NNNN Kr1 2.480 2 GH -1.822 dBr -20:22 dE
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 dB/div	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E		Log-Pwr 0/10	rrace [] 2 3 4 TYPE MWWWW Der P NNNN (r1 2.480 2 GH -1.822 dBr
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 dB/div	r - Swept SA 50 Ω AC 265000000 GHz F IF set 1 dB	SENSE:PUL:	E	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 0/10	rrace [] 23 45 TYPE [] 23 45 OET P NNNN (r1 2.480 2 GH -1.822 dBr
Ref Offs 0 dB/div Ref 20 0 dB/div Ref 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0	r - Swept SA 50 Ω AC 265000000 GHz F iset 1 dB .00 dBm 4 4	SENSEIPUL	E	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 0/10	TRACE [] 2 3 4 E TYPE [] WINNE (r1 2.480 2 GH -1.822 dBr -20 22 dE -20 22 dE ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20 0 dB/div	r - Swept SA S0 R AC 265000000 GHz F if if if if if if if if if if	SENSE:PUL Solo: Fast → Trig Gain:Low → #Att	E		Log-Pwr 0/10 MI	TRACE [] 23 45 TYPE [] WHAT OFT 2.480 2 GH -1.822 dBr -20 22 ∉ -20 22 ∉ 2.50 5 (30001 pt:
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0.0	r - Swept SA SD R AC 265000000 GHz F if iet 1 dB .00 dBm 4 4 2.480 2 GHz	SENSE PUL SOL: Fast Trig Gain:Low #Att 	E		Log-Pwr 0/10 MI	TRACE [] 2 3 4 E TYPE [] WINNE (r1 2.480 2 GH -1.822 dBr -20 22 dE -20 22 dE ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 10.0 0 11.0 0 11.0 1 11.0 1	r - Swept SA S0 Ω AC 265000000 GHz F iset 1 dB .00 dBm 4 2480 2 GHz 25.562 1 GHz 4.960 5 GHz 4.960 5 GHz	SENSE:PUL PNO: Fast →→ Trig Gain:Low → #Att	E		Log-Pwr 0/10 MI	TRACE [] 2 3 4 E TYPE [] WINNE (T1 2.480 2 GH -1.822 dBr -20 22 ∉ -20 22 ∉ 2.50 5 (30001 pt 2.530 s (30001 pt
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20 0 g	r - Swept SA S0 Ω AC 265000000 GHZ F F F Set 1 dB .00 dBm 2.480 2 GHz 25.562 1 GHz 25.562 1 GHz	SENSE:PUL NO: Fast →→ Trig Gain:Low #Att	E		Log-Pwr 0/10 MI	TRACE [] 2 3 4 E TYPE [] WINNE (T1 2.480 2 GH -1.822 dBr -20 22 ∉ -20 22 ∉ 2.50 5 (30001 pt 2.530 s (30001 pt
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20 10.0 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1 0.00 1.1	r - Swept SA S0 Ω AC 265000000 GHz F iset 1 dB .00 dBm 4 2.480 2 GHz 25.562 1 GHz 4.960 5 GHz 7.474 2 GHz	SENSE:PUL Sense:PUL Sain:Low → Trig #Att	E		Log-Pwr 0/10 MI	TRACE [] 23 45 TYPE [] WHAT OFT 2.480 2 GH -1.822 dBr -20 22 ∉ -20 22 ∉ 2.50 5 (30001 pt:
RL RF Center Freq 13.2 Ref Offs 0 dB/div Ref 20 0 g	r - Swept SA S0 Ω AC 265000000 GHz F iset 1 dB .00 dBm 4 2.480 2 GHz 25.562 1 GHz 4.960 5 GHz 7.474 2 GHz	SENSE:PUL Sense:PUL Sain:Low → Trig #Att	E		Log-Pwr 0/10 MI	TRACE [] 2 3 4 E TYPE [] WINNE (T1 2.480 2 GH -1.822 dBr -20 22 ∉ -20 22 ∉ 2.50 5 (30001 pt 2.530 s (30001 pt

Tx. Spurious NVNT BLE 1M 2480MHz Ref

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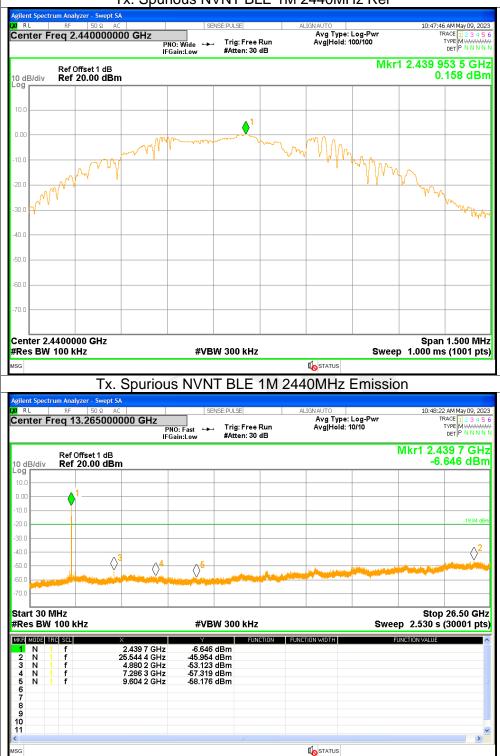
RL RF	r - Swept SA 50 Ω AC)2000000 GHz	SENSE:PULS		ALIGNAUTO Avg Type: Log-Pwr	10:44:25 AM May 09, 20 TRACE 1 2 3 4 5
0.1.01 1109 2.40	Р		: Free Run en: 30 dB	Avg Hold: 100/100	DET P N N N
Ref Offs D dB/div Ref 20	et 1 dB .00 dBm			M	r1 2.401 947 5 GH 0.100 dBi
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D.00			∮ ¹		
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					A. Con
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50.0					
60.0					
70.0					
enter 2.4020000	GHz				Span 1.500 MH
Res BW 100 kHz		#VBW 300) kHz		ep 1.000 ms (1001 pt
G					
		us NVNT B	LE 1M 2	402MHz Emiss	ion
RL RF	r - Swept SA 50 Ω AC	US NVNT BI		402MHz Emiss	10:45:01 AM May 09, 20
RL RF	r - Swept SA 50 Ω AC 265000000 GHz	SENSE:PULS		402MHz Emiss	10:45:01 AM May 09, 20 TRACE 1 2 3 4 5 TYPE M WWWW
enter Freq 13.2	r - Swept SA 50 Q AC 265000000 GHz IF	SENSE:PULS	E	402MHz Emiss	10:45:01 АМ Мау 09, 20 ТРАСЕ 12 34 4 ТУРЕ МУМИМ рет Р NNN Mkr1 2.401 7 GH
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref 20	r - Swept SA 50 Q AC 265000000 GHz IF	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 ТРАСЕ [1] 3 3 4 5 ТУРЕ МИМИИ рет Р NNN Mkr1 2.401 7 GH
RL RF Ref Offs 0 dB/div Ref 200	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 ТРАСЕ [1] 3 3 4 5 ТУРЕ МИМИИ рет Р NNN Mkr1 2.401 7 GH
RL RF Ref Offs 0 dB/div Ref 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 ТРАСЕ [1] 3 3 4 5 ТУРЕ МИМИИ рет Р NNN Mkr1 2.401 7 GH
RL RF Ref Offs 0 dB/div Ref 20 0 0 0.0	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE MANNAN DET P NNN Mkr1 2.401 7 GH -5.297 dBr
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref 20 9 1 0.00 1 0.00 1 0.00 30.0	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE MANNAN DET P NNN Mkr1 2.401 7 GH -5.297 dBr
RL RF enter Freq 13.2 0 dB/div Ref Offs 0 dB/div Ref 20 9 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE MANNAN DET P NNN Mkr1 2.401 7 GH -5.297 dBr
RL RF Ref Offs 0 dB/div Ref 20 9 0 10.0 0.0	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE [MUNICAL PROVIDED 12 3 4 TYPE [MUNICAL PROVIDED 13 4 TYPE [MUNICAL PROVIDED 13 4 Mkr1 2.401 7 GH -5.297 dBr -19.90 dE
RL RF Ref Offs 0 dB/div Ref 20 9 0 10.0 0.0	r - Swept SA 50 Ω AC 265000000 GHz F IF if if if if if if if if if if	SENSE:PULS	E	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE MANNAN DET P NNN Mkr1 2.401 7 GH -5.297 dBr
Ref Offs 0 dB/div Ref 20 99 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0.00 10.0 0 0.00 10.0 0 0 0	r - Swept SA S0 Ω AC 265000000 GHz F F iet 1 dB .00 dBm 4 4 4 4 4	SENSE:PULS	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYPE WINN Mkr1 2.401 7 GH -5.297 dBr -19:90 dB -19:90 dB -19:90 dB -19:90 dB -19:90 dB -19:90 dB
RL RF eenter Freq 13.2 Ref Offs 0 dB/div Ref Offs 10.0 1 0.00	r - Swept SA S0 Ω AC 265000000 GHz F F iet 1 dB .00 dBm 4 4 4 4 4	SENSE:PULS PNO: Fast → Trig Gain:Low #Att	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 1 2 3 4 5 TYPE [MINUT 0ET P NNNN Mkr1 2.401 7 GH -5.297 dBr -19:90 db -19:90 db -19
RL RF center Freq 13.2 Ref Offs 0 dB/div Ref 20 0.0 1 0.00 1	r - Swept SA S0 Ω AC 265000000 GHz IF if if if if if if if if if if	SENSE:PULS PNO: Fast →→ Trig Gain:Low #Att 5 5 #VBW 300 5.297 dBm	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 12 3 4 5 TYTEE MUNICIPAL OF A CONTRACT 12 3 4 5 TYTEE MUNICIPAL OF A CONTRACT 12 3 4 5 TYTEE MUNICIPAL OF A CONTRACT 12 3 4 5 MKr1 2.401 7 GH -5.297 dBr -5.297 dBr -19:90 dB -19:90 d
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref 20 0.0 1 0.00 1	r - Swept SA S0 Ω AC 265000000 GHz I I I I I I I I I I I I I	SENSE:PULS PNO: Fast → Trig Gain:Low #Att 5 #VBW 300 × 46.774 dBm -46.774 dBm -55.297 dBm	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 1 2 3 4 5 TYPE [MINUT 0ET P NNNN Mkr1 2.401 7 GH -5.297 dBr -19:90 db -19:90 db -19
RL RF enter Freq 13.2 Ref Offs 0 dB/div Ref 20 0.0 1 0.00 1	r - Swept SA S0 Ω AC 265000000 GHz F F F F F F F F F F F F F	SENSE:PULS PNO: Fast → Trig Gain:Low #Att 55 Sub State	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 1 2 3 4 5 TYPE [MINUT 0ET P NNNN Mkr1 2.401 7 GH -5.297 dBr -19:90 db -19:90 db -19
RL RF center Freq 13.2 Ref Offs 0 dB/div Ref 20 0.0 1 0.00	- Swept SA S0 Ω AC 265000000 GHz IF IF if if if if if if if if if if	SENSE:PULS PNO: Fast → Trig Gain:Low #Att 55 Sub State	E	402MHz Emiss	10:45:01 AM May 09, 22 TRACE 12.3.4 TYPE MANNA Mkr1 2.401 7 GH -5.297 dBr -19:00 -19:00 Stop 26.50 GH eep 2.530 s (30001 pt
RL RF enter Freq 13.2 0 dB/div Ref Offs 0 dB/div Ref 20 0 g 1 0.00 1	- Swept SA S0 Ω AC 265000000 GHz IF IF if if if if if if if if if if	SENSE:PULS PNO: Fast → Trig Gain:Low #Att 55 Sub State	E	402MHz Emiss	10:45:01 AM May 09, 20 TRACE 1 2 3 4 5 TYPE [MINUT 0ET P NNNN Mkr1 2.401 7 GH -5.297 dBr -19:90 db -19:90 db -19

Tx. Spurious NVNT BLE 1M 2402MHz Ref

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Tx. Spurious NVNT BLE 1M 2440MHz Ref



gilent Spectrum An RL RF	alyzer - Swept SA 50 Ω AC	SEN:	SE:PULSE	ALIGNAUTO	10:51:06 AM May 09, 20
	2.480000000 GH		Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 1 TYPE MWWW DET P N N N
	Offset 1 dB f 20.00 dBm			Mkr	1 2.479 946 0 GH -0.217 dBi
og abran inte					
10.0					
0.00					
0.0	man	he of mental	. m.W	way WM	
	$\gamma \gamma \gamma \gamma$			W W	m
20.0	Y				my
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10.0					
50.0					
.0.0					
70.0					
enter 2.4800	000 GHz				Span 1.500 MH
Res BW 100					
	kHz	#VBV	V 300 kHz		
SG				STATUS	p 1.000 ms (1001 pt
SG	Tx. Spu				p 1.000 ms (1001 pt
g <mark>ilent Spectrum An</mark> R L RF	Тх. Spul			480MHz Emissio	p 1.000 ms (1001 pt)))) 10:51:42 AMMay 09, 20
g <mark>ilent Spectrum An</mark> R L RF	Tx. Spul		BLE 1M 2	480MHz Emissio	p 1.000 ms (1001 pt 00 10:51:42 AM May 09, 20 TRACE [1 2 3 4 TYPE [M way 09, 20
sg g <mark>ilent Spectrum Ar</mark> RL RF center Freq Rei	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42 AM May 09, 20 TRACE [1 2 3 4 TYPE [Mww DET P N N N
silent Spectrum An RL RF enter Freq 0 dB/div Re	Tx. Spu alyzer - Swept SA - 50 Ω AC 13.2650000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42 AM May 09, 20 TRACE [1 2 3 4 TYPE [Mww DET P N N N
sg gilent Spectrum Ar RL RF center Freq Rei	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42 AM May 09, 20 TRACE [1 2 3 4 TYPE [Mww DET P N N N
sc glient Spectrum An RL RF center Freq 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42.AM May 09, 20 TRACE 12.3.45 TYPE MWWWW DET [P NNNN Mkr1 2.480 2 GH -1.822 dBr
sc RL RF center Freq 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42.AM May 09, 20 TRACE 12.3.45 TYPE MWWWW DET [P NNNN Mkr1 2.480 2 GH -1.822 dBr
sc glient Spectrum An RL RF center Freq 0 dB/div Re 0 dB/div Re 0 dB/div Re 0 dB/div Re	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	p 1.000 ms (1001 pt
sc RL RF center Freq 0 dB/div Re 0 dB/	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42.AM May 09, 20 TRACE 12.3.45 TYPE MWWWW DET [P NNNN Mkr1 2.480 2 GH -1.822 dBr
sc RL RF center Freq 0 dB/div Re 0 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 Gł		TBLE 1M 2 SE:PULSE Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr AvgTypei 10010	DN 10:51:42.AM May 09, 20 TRACE 12:34 E TYPE MWWWW DET P NNNN Mkr1 2.480 2 GH -1.822 dBr
SG RL RF RL RF RF Conter Freq Ref Ref O dB/div Ref Ref O dD O O O dD <t< td=""><td>Tx. Spur</td><td>rious NVNT</td><td>TBLE 1M 2</td><td>2480MHz Emissic</td><td>DN 10:51:42 AM May 09, 20 TRACE 12 3 4 1 TYPE J Mkr1 2.480 2 GH -1.822 dBI -20:22 dl -20:22 dl -20:20 dl -20:20</td></t<>	Tx. Spur	rious NVNT	TBLE 1M 2	2480MHz Emissic	DN 10:51:42 AM May 09, 20 TRACE 12 3 4 1 TYPE J Mkr1 2.480 2 GH -1.822 dBI -20:22 dl -20:22 dl -20:20
SG Rel Ref RL RF Ref Center Freq 10.0 0 10.0 0	Tx. Spur	rious NVNT	V 3000 KHz	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	DN 10:51:42 AM May 09, 20 TRACE 1 2 3 4 TVPE [NNN Mkr1 2.480 2 GH -1.822 dBr -20:22 dB -20:22 dB -20:20 dB -40:20 dB -20:20 dB -20
SG RL RF RL RF Retor CodB/div Retor Retor 0 0 0 0 0 <td>Tx. Spur</td> <td>rious NVNT</td> <td>SEPUSE Trig: Free Run #Atten: 30 dB</td> <td>Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10</td> <td>p 1.000 ms (1001 pt 00 10:51:42 AM May 09, 20 TRACE 12 3 4 5 TVPE [MWN 05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	Tx. Spur	rious NVNT	SEPUSE Trig: Free Run #Atten: 30 dB	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	p 1.000 ms (1001 pt 00 10:51:42 AM May 09, 20 TRACE 12 3 4 5 TVPE [MWN 05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SG Ref RL RF Contert Freq Ref O dB/div Ref O dO Good O do Good O do Good O do Good Start 30 MHz N do N do I f N do I f	Tx. Spur	rious NVN Hz PNO: Fast IFGain:Low	V 300 kHz	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	DN 10:51:42 AM May 09, 20 TRACE 1 2 3 4 TVPE [NNN Mkr1 2.480 2 GH -1.822 dBr -20:22 dB -20:22 dB -20:20 dB -40:20 dB -20:20 dB -20
SG RL RP RL RF Retor center Freq Retor Retor 0 dB/div Retor	Tx. Spui alyzer - Swept SA 50 x AC 13.265000000 GF 13.265000000 GF 13.265000000 GF 13.26500 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	rious NVN Hz PNO: Fast IFGain:Low	V 300 kHz	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	DN 10:51:42 AM May 09, 20 TRACE 1 2 3 4 TVPE [NNN Mkr1 2.480 2 GH -1.822 dBr -20:22 dB -20:22 dB -20:20 dB -40:20 dB -20:20 dB -20
SG Re RL RF center Freq Re! 0 dB/div Re 0 dB/div	Tx. Spur	rious NVN Hz PNO: Fast IFGain:Low	V 300 kHz	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	DN 10:51:42 AMMay 09, 20 TRACE 12 3 4 TVPE [MWN DET P N N N Mkr1 2.480 2 GH -1.822 dBi -20:22 d Stop 26.50 GH p 2.530 s (30001 pt
Signet Spectrum An RL RF Ref enter Freq 0 0 0 <td>Tx. Spur</td> <td>rious NVN Hz PNO: Fast IFGain:Low</td> <td>V 300 kHz</td> <td>Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10</td> <td>DN 10:51:42 AMMay 09, 20 TRACE 12 3 4 TVPE [MWN DET P N N N Mkr1 2.480 2 GH -1.822 dBi -20:22 d Stop 26.50 GH p 2.530 s (30001 pt</td>	Tx. Spur	rious NVN Hz PNO: Fast IFGain:Low	V 300 kHz	Restarus 2480MHz Emissic Augnauto Avg Type: Log-Pwr AvgjHold: 10/10	DN 10:51:42 AMMay 09, 20 TRACE 12 3 4 TVPE [MWN DET P N N N Mkr1 2.480 2 GH -1.822 dBi -20:22 d Stop 26.50 GH p 2.530 s (30001 pt

Tx. Spurious NVNT BLE 1M 2480MHz Ref



APPENDIX 2- EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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

