Radio Test Report

Report No.:STS2408307W04

Issued for

Tri plus grupa d.o.o.

Banjavciceva 11, 10000 Zagreb, Croatia

Product Name:	Alloy Fusion v3
Brand Name:	Alloy SmartHome Hub
Model Name:	af3.zw8us.mw.4G
Series Model(s):	N/A
FCC ID:	2AAU7-AF3MW
Test Standards:	FCC Part15.247

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TEST REPORT

Applicant's Name	Tri plus grupa d.o.o.
Address:	Banjavciceva 11, 10000 Zagreb, Croatia
Manufacturer's Name:	Tri plus grupa d.o.o.
Address:	Banjavciceva 11, 10000 Zagreb, Croatia
Product Description	
Product Name:	Alloy Fusion v3
Brand Name:	Alloy SmartHome Hub
Model Name	. af3.zw8us.mw.4G
Series Model(s)	N/A
Test Standards	FCC Part15.247
Test Procedure:	ANSI C63.10-2020

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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test:	
Date of receipt of test item:	08 Aug. 2024
Date (s) of performance of tests	08 Aug. 2024 ~ 05 Sept. 2024
Date of Issue:	05 Sept. 2024
Test Result	Pass

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_	(Tony Liu)	
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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	05 Sept. 2024	STS2408307W04	ALL	Initial Issue
			9	9





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	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	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	PASS					

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569

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IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{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	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Alloy Fusion v3			
Brand Name	Alloy SmartHome Hub			
Model Name	af3.zw8us.mw.4G			
Series Model(s)	N/A			
Model Difference	N/A			
	The EUT is a Alloy I	Fusion v3		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
Product Description	Bluetooth			
	Configuration:	LE(Support 1M PHY, 2M PHY)		
	Number Of Channel:	40		
	Antenna Type: Stamped metal antenna			
	Antenna Gain (dBi) 2.45 dBi			
Channel List	Please refer to the N	Note 3.		
Rating	Input: AC 24V 0.7A	r		
	Model: CR2032	~		
Battery	Rated Voltage: 3V Capacity: 220mAh			
Hardware version number				
	SHO2-R_V2_5			
Software version number	smartrent_hub-v1.28.1			
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. 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.



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

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

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /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 120V50/60Hz and AC 24V, 50/60Hz) for which the device is capable of operation, and the worst case of AC 24V/60Hz is shown in the report.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 7 : Keeping BT TX

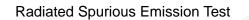
2.3 TEST SOFTWARE AND POWER LEVEL

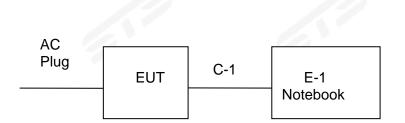
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With 2M	BLE_1M PHY	GFSK	2.45	9	SecureCRT
PHY)	BLE_2M PHY	GFSK	2.45	9	SecureCRT

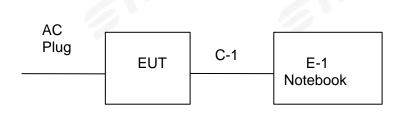


2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





Conducted 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									
lt	em	Equipment	Mfr/Brand	Model/Type No.	Length	Note				
		N/A	N/A N/A		N/A	N/A				

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	USB Cable	HUA WEI	100cm	N/A	N/A
	<i></i>				

Note:

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



2.6 EQUIPMENTS LIST

	RF Rad	iation Test Equipmer	nt		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	Switch Control Box N/A		N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	ntenna Mast MF		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	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW	EZ-EMC		Ver.STSLAB-03/	A1 RE	
	Condu	ction Test equipment			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2023.09.25	2024.09.24
Limtter	CYBERTEK	EM5010	N/A	2023.09.25	2024.09.24
LISN	R&S	ENV216	101242	2023.09.25	2024.09.24
LISN	EMCO	3810/2NM	23625	2023.09.25	2024.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	EZ-EMC		Ver.STSLAB-03/	A1 CE	S
	RF	Connected Test			
Kind of Equipment	Kind of Equipment Manufacturer		Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Power detector group	Keysight	NW2021031	N/A	2023.09.26	2024.09.25
Switch control box	ŃŴ	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW		MTS 8310_2.0	0.0.0	•



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.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)		
	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

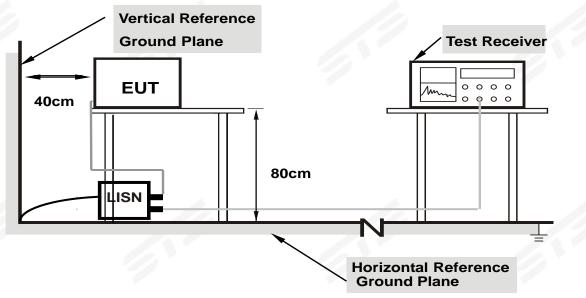
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



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.



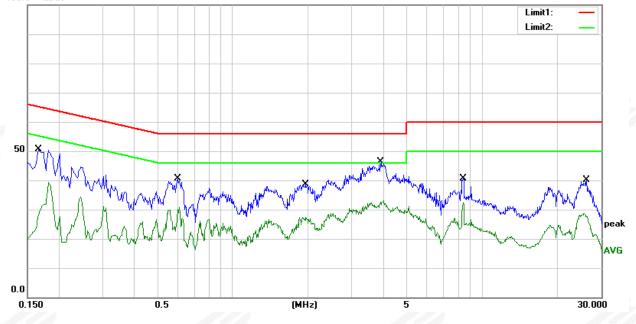
3.5 TEST RESULTS

Temperature:	25.1℃	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7	9	9.

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1660	30.72	19.78	50.50	65.16	-14.66	QP
2	0.1660	16.95	19.78	36.73	55.16	-18.43	AVG
3	0.6020	20.69	19.91	40.60	56.00	-15.40	QP
4	0.6020	10.90	19.91	30.81	46.00	-15.19	AVG
5	1.9500	18.72	19.79	38.51	56.00	-17.49	QP
6	1.9500	7.56	19.79	27.35	46.00	-18.65	AVG
7	3.9340	26.60	19.84	46.44	56.00	-9.56	QP
8	3.9340	13.27	19.84	33.11	46.00	-12.89	AVG
9	8.3900	20.65	20.05	40.70	60.00	-19.30	QP
10	8.3900	12.34	20.05	32.39	50.00	-17.61	AVG
11	26.2180	19.90	20.15	40.05	60.00	-19.95	QP
12	26.2180	8.41	20.15	28.56	50.00	-21.44	AVG

Remark:

All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
 Factor=LISN factor+Cable loss+Limiter (10dB)
 100.0 dBuV





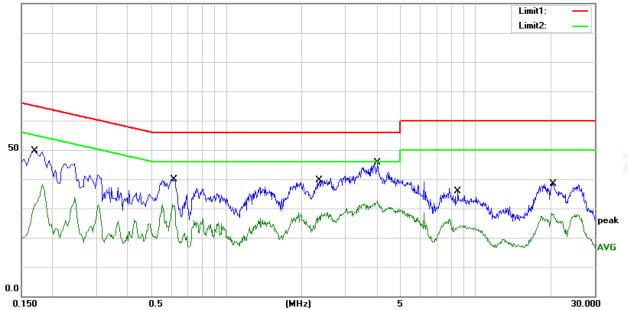
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Temperature:	25.1 ℃	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7	17	12

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1700	29.91	19.78	49.69	64.96	-15.27	QP
2	0.1700	18.69	19.78	38.47	54.96	-16.49	AVG
3	0.6140	20.08	19.90	39.98	56.00	-16.02	QP
4	0.6140	11.54	19.90	31.44	46.00	-14.56	AVG
5	2.3660	19.85	19.81	39.66	56.00	-16.34	QP
6	2.3660	8.70	19.81	28.51	46.00	-17.49	AVG
7	4.0420	25.86	19.84	45.70	56.00	-10.30	QP
8	4.0420	12.74	19.84	32.58	46.00	-13.42	AVG
9	8.4740	15.76	20.06	35.82	60.00	-24.18	QP
10	8.4740	6.42	20.06	26.48	50.00	-23.52	AVG
11	20.4260	17.89	20.49	38.38	60.00	-21.62	QP
12	20.4260	7.92	20.49	28.41	50.00	-21.59	AVG

- All readings are Quasi-Peak and Average values
 Margin = Result (Result =Reading + Factor)–Limit
 Factor=LISN factor+Cable loss+Limiter (10dB)
 100.0 dBuV





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 Part 15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 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
(1) The limit for radiated te	est was performed according	to FCC PART 15C.	
(2) The tighter limit applies	s at the band edges.		

(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)/
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	120 KHz / 300 KHz
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)	
or Destricted hand		

For Restricted band

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

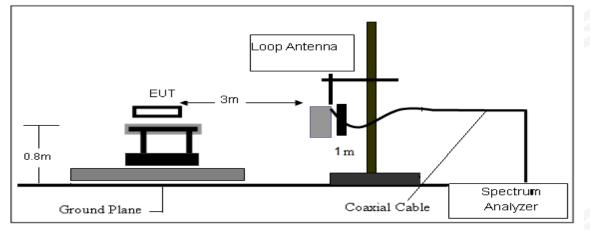
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the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

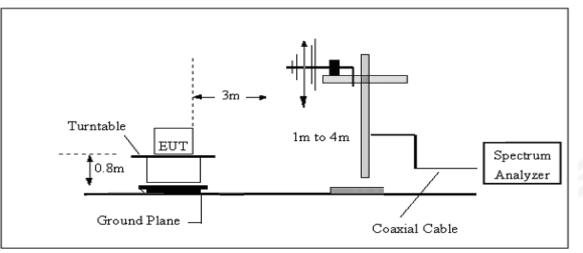


4.3 TEST SETUP

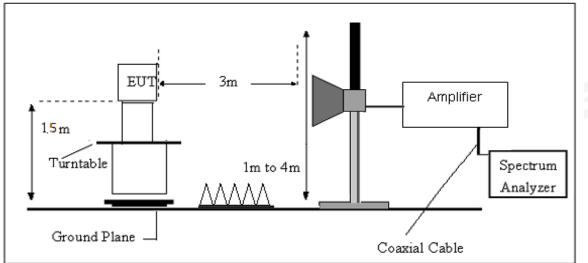
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 - 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:	23.4 ℃	Relative Humidtity:	60%RH
Test Voltage:	AC 24V/60Hz	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.



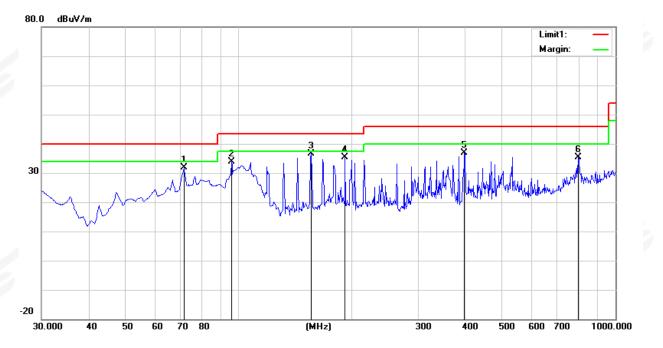
(30MHz -1000MHz)

1M PHY

	and the second se		
Temperature:	23.4 ℃	Relative Humidity:	60%RH
Test Voltage:	AC 24V/60Hz	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	71.7100	56.34	-24.56	31.78	40.00	-8.22	peak
2	95.9600	54.48	-20.67	33.81	43.50	-9.69	peak
3	156.1000	55.35	-18.66	36.69	43.50	-6.81	peak
4	191.9900	56.47	-21.04	35.43	43.50	-8.07	peak
5	398.6000	48.06	-11.20	36.86	46.00	-9.14	peak
6	798.2400	37.50	-2.03	35.47	46.00	-10.53	peak

- Margin = Result (Result = Reading + Factor)–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



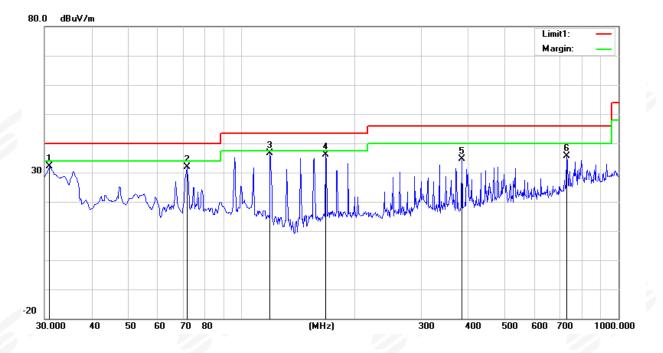


Report No.: STS2408307W04

Temperature:	23.4 ℃	Relative Humidity:	60%RH					
Test Voltage:	AC 24V/60Hz	Phase:	Vertical					
Test Mode:	Mode 1/2/3 (Mode 1 worst mo	Node 1/2/3 (Mode 1 worst mode)						

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	45.38	-13.35	32.03	40.00	-7.97	peak
2	71.7100	56.49	-24.56	31.93	40.00	-8.07	peak
3	119.2400	55.10	-18.38	36.72	43.50	-6.78	peak
4	167.7400	55.81	-19.58	36.23	43.50	-7.27	peak
5	384.0500	46.51	-11.99	34.52	46.00	-11.48	peak
6	730.3400	38.12	-2.46	35.66	46.00	-10.34	peak

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



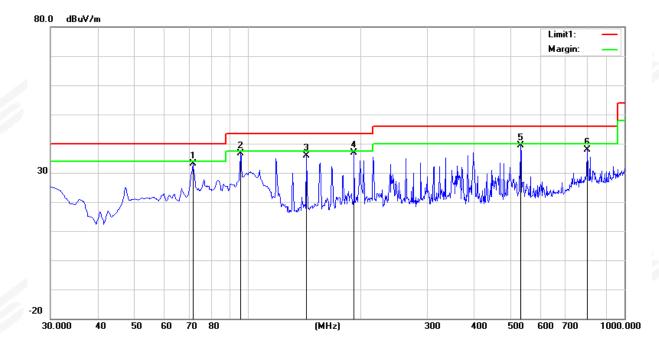


2M PHY

Temperature:	23.4 ℃	Relative Humidity:	60%RH			
Test Voltage:	AC 24V/60Hz	Phase:	Horizontal			
Test Mode:	Mode 4/5/6 (Mode 4 worst mode)					

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	71.7100	57.57	-24.56	33.01	40.00	-6.99	peak
2	95.9600	57.41	-20.67	36.74	43.50	-6.76	peak
3	143.4900	53.99	-18.23	35.76	43.50	-7.74	peak
4	191.9900	57.96	-21.04	36.92	43.50	-6.58	peak
5	531.4900	46.78	-7.37	39.41	46.00	-6.59	peak
6	796.3000	39.82	-2.02	37.80	46.00	-8.20	peak

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.





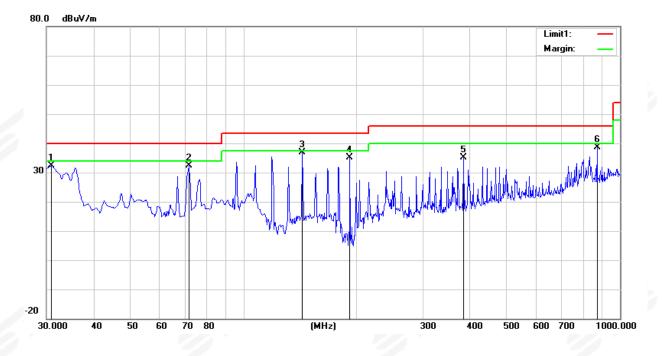
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Report No.: STS2408307W04

Temperature:	23.4 ℃	Relative Humidity:	60%RH
Test Voltage:	AC 24V/60Hz	Phase:	Vertical
Test Mode:	Mode 4/5/6 (Mode 4 worst mo	ode)	12

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	45.85	-13.35	32.50	40.00	-7.50	peak
2	71.7100	56.90	-24.56	32.34	40.00	-7.66	peak
3	143.4900	55.06	-18.23	36.83	43.50	-6.67	peak
4	191.9900	56.18	-21.04	35.14	43.50	-8.36	peak
5	384.0500	47.23	-11.99	35.24	46.00	-10.76	peak
6	870.0200	39.15	-0.53	38.62	46.00	-7.38	peak

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.





(1GHz-25GHz) Spurious emission Requirements

1M PHY 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 Cł	nannel (GFSK/	2402 MHz)				
3264.71	61.93	44.70	6.70	28.20	-9.80	52.13	74.00	-21.87	PK	Vertical
3264.71	50.30	44.70	6.70	28.20	-9.80	40.50	54.00	-13.50	AV	Vertical
3264.70	62.15	44.70	6.70	28.20	-9.80	52.35	74.00	-21.65	PK	Horizontal
3264.70	50.22	44.70	6.70	28.20	-9.80	40.42	54.00	-13.58	AV	Horizontal
4804.56	59.49	44.20	9.04	31.60	-3.56	55.93	74.00	-18.07	PK	Vertical
4804.56	50.33	44.20	9.04	31.60	-3.56	46.77	54.00	-7.23	AV	Vertical
4804.32	58.42	44.20	9.04	31.60	-3.56	54.86	74.00	-19.14	PK	Horizontal
4804.32	49.92	44.20	9.04	31.60	-3.56	46.36	54.00	-7.64	AV	Horizontal
5359.84	48.89	44.20	9.86	32.00	-2.34	46.55	74.00	-27.45	PK	Vertical
5359.84	39.27	44.20	9.86	32.00	-2.34	36.93	54.00	-17.07	AV	Vertical
5359.63	47.17	44.20	9.86	32.00	-2.34	44.83	74.00	-29.17	PK	Horizontal
5359.63	38.22	44.20	9.86	32.00	-2.34	35.88	54.00	-18.12	AV	Horizontal
7205.79	53.89	43.50	11.40	35.50	3.40	57.29	74.00	-16.71	PK	Vertical
7205.79	44.06	43.50	11.40	35.50	3.40	47.46	54.00	-6.54	AV	Vertical
7205.79	54.64	43.50	11.40	35.50	3.40	58.04	74.00	-15.96	PK	Horizontal
7205.79	43.97	43.50	11.40	35.50	3.40	47.37	54.00	-6.63	AV	Horizontal
				Middle C	Channel (GFSK	(/2440 MHz)				
3262.99	61.37	44.70	6.70	28.20	-9.80	51.57	74.00	-22.43	PK	Vertical
3262.99	51.20	44.70	6.70	28.20	-9.80	41.40	54.00	-12.60	AV	Vertical
3263.05	61.23	44.70	6.70	28.20	-9.80	51.43	74.00	-22.57	PK	Horizontal
3263.05	49.86	44.70	6.70	28.20	-9.80	40.06	54.00	-13.94	AV	Horizontal
4880.08	58.60	44.20	9.04	31.60	-3.56	55.04	74.00	-18.96	PK	Vertical
4880.08	49.64	44.20	9.04	31.60	-3.56	46.08	54.00	-7.92	AV	Vertical
4880.06	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4880.06	50.23	44.20	9.04	31.60	-3.56	46.67	54.00	-7.33	AV	Horizontal
5357.17	48.64	44.20	9.86	32.00	-2.34	46.30	74.00	-27.70	PK	Vertical
5357.17	38.94	44.20	9.86	32.00	-2.34	36.60	54.00	-17.40	AV	Vertical
5357.39	48.02	44.20	9.86	32.00	-2.34	45.68	74.00	-28.32	PK	Horizontal
5356.98	38.19	44.20	9.86	32.00	-2.34	35.85	54.00	-18.15	AV	Horizontal
7320.85	53.94	43.50	11.40	35.50	3.40	57.34	74.00	-16.66	PK	Vertical
7320.85	43.60	43.50	11.40	35.50	3.40	47.00	54.00	-7.00	AV	Vertical
7320.52	54.62	43.50	11.40	35.50	3.40	58.02	74.00	-15.98	PK	Horizontal
7320.52	44.38	43.50	11.40	35.50	3.40	47.78	54.00	-6.22	AV	Horizontal



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				High Chai	nnel (GFSK/	2480 MHz)				
3264.69	62.21	44.70	6.70	28.20	-9.80	52.41	74.00	-21.59	PK	Vertical
3264.69	50.39	44.70	6.70	28.20	-9.80	40.59	54.00	-13.41	AV	Vertical
3264.66	61.91	44.70	6.70	28.20	-9.80	52.11	74.00	-21.89	PK	Horizontal
3264.66	50.39	44.70	6.70	28.20	-9.80	40.59	54.00	-13.41	AV	Horizontal
4960.37	58.36	44.20	9.04	31.60	-3.56	54.80	74.00	-19.20	PK	Vertical
4960.37	50.05	44.20	9.04	31.60	-3.56	46.49	54.00	-7.51	AV	Vertical
4960.55	59.42	44.20	9.04	31.60	-3.56	55.86	74.00	-18.14	PK	Horizontal
4960.55	49.12	44.20	9.04	31.60	-3.56	45.56	54.00	-8.44	AV	Horizontal
5359.80	49.30	44.20	9.86	32.00	-2.34	46.96	74.00	-27.04	PK	Vertical
5359.80	39.95	44.20	9.86	32.00	-2.34	37.61	54.00	-16.39	AV	Vertical
5359.76	47.87	44.20	9.86	32.00	-2.34	45.53	74.00	-28.47	PK	Horizontal
5359.76	38.88	44.20	9.86	32.00	-2.34	36.54	54.00	-17.46	AV	Horizontal
7439.79	54.62	43.50	11.40	35.50	3.40	58.02	74.00	-15.98	PK	Vertical
7439.79	44.63	43.50	11.40	35.50	3.40	48.03	54.00	-5.97	AV	Vertical
7439.69	54.85	43.50	11.40	35.50	3.40	58.25	74.00	-15.75	PK	Horizontal
7439.69	44.80	43.50	11.40	35.50	3.40	48.20	54.00	-5.80	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.





2M PHY 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 Ch	nannel (GFSK/2	2402 MHz)				P
3264.77	62.19	44.70	6.70	28.20	-9.80	52.39	74.00	-21.61	PK	Vertical
3264.77	50.19	44.70	6.70	28.20	-9.80	40.39	54.00	-13.61	AV	Vertical
3264.84	60.82	44.70	6.70	28.20	-9.80	51.02	74.00	-22.98	PK	Horizontal
3264.84	50.00	44.70	6.70	28.20	-9.80	40.20	54.00	-13.80	AV	Horizontal
4804.43	58.81	44.20	9.04	31.60	-3.56	55.25	74.00	-18.75	PK	Vertical
4804.43	50.56	44.20	9.04	31.60	-3.56	47.00	54.00	-7.00	AV	Vertical
4804.32	58.35	44.20	9.04	31.60	-3.56	54.79	74.00	-19.21	PK	Horizontal
4804.32	50.04	44.20	9.04	31.60	-3.56	46.48	54.00	-7.52	AV	Horizontal
5359.75	48.74	44.20	9.86	32.00	-2.34	46.40	74.00	-27.60	PK	Vertical
5359.75	39.93	44.20	9.86	32.00	-2.34	37.59	54.00	-16.41	AV	Vertical
5359.80	47.58	44.20	9.86	32.00	-2.34	45.24	74.00	-28.76	PK	Horizontal
5359.80	38.73	44.20	9.86	32.00	-2.34	36.39	54.00	-17.61	AV	Horizontal
7205.69	54.01	43.50	11.40	35.50	3.40	57.41	74.00	-16.59	PK	Vertical
7205.69	44.32	43.50	11.40	35.50	3.40	47.72	54.00	-6.28	AV	Vertical
7205.93	54.03	43.50	11.40	35.50	3.40	57.43	74.00	-16.57	PK	Horizontal
7205.93	43.84	43.50	11.40	35.50	3.40	47.24	54.00	-6.76	AV	Horizontal
				Middle C	Channel (GFSK	/2440 MHz)	•			
3262.95	61.64	44.70	6.70	28.20	-9.80	51.84	74.00	-22.16	PK	Vertical
3262.95	51.32	44.70	6.70	28.20	-9.80	41.52	54.00	-12.48	AV	Vertical
3263.14	60.93	44.70	6.70	28.20	-9.80	51.13	74.00	-22.87	PK	Horizontal
3263.14	51.19	44.70	6.70	28.20	-9.80	41.39	54.00	-12.61	AV	Horizontal
4880.02	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Vertical
4880.02	50.49	44.20	9.04	31.60	-3.56	46.93	54.00	-7.07	AV	Vertical
4880.19	58.60	44.20	9.04	31.60	-3.56	55.04	74.00	-18.96	PK	Horizontal
4880.19	49.38	44.20	9.04	31.60	-3.56	45.82	54.00	-8.18	AV	Horizontal
5357.19	48.89	44.20	9.86	32.00	-2.34	46.55	74.00	-27.45	PK	Vertical
5357.19	39.00	44.20	9.86	32.00	-2.34	36.66	54.00	-17.34	AV	Vertical
5357.39	47.82	44.20	9.86	32.00	-2.34	45.48	74.00	-28.52	PK	Horizontal
5356.99	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7320.85	53.62	43.50	11.40	35.50	3.40	57.02	74.00	-16.98	PK	Vertical
7320.85	44.68	43.50	11.40	35.50	3.40	48.08	54.00	-5.92	AV	Vertical
7320.55	54.23	43.50	11.40	35.50	3.40	57.63	74.00	-16.37	PK	Horizontal
7320.55	44.93	43.50	11.40	35.50	3.40	48.33	54.00	-5.67	AV	Horizontal



Report No.: STS2408307W04

				High Chai	nnel (GFSK/	2480 MHz)				
3264.82	62.13	44.70	6.70	28.20	-9.80	52.33	74.00	-21.67	PK	Vertical
3264.82	49.86	44.70	6.70	28.20	-9.80	40.06	54.00	-13.94	AV	Vertical
3264.60	60.94	44.70	6.70	28.20	-9.80	51.14	74.00	-22.86	PK	Horizontal
3264.60	51.29	44.70	6.70	28.20	-9.80	41.49	54.00	-12.51	AV	Horizontal
4960.53	59.20	44.20	9.04	31.60	-3.56	55.64	74.00	-18.36	PK	Vertical
4960.53	49.88	44.20	9.04	31.60	-3.56	46.32	54.00	-7.68	AV	Vertical
4960.43	59.41	44.20	9.04	31.60	-3.56	55.85	74.00	-18.15	PK	Horizontal
4960.43	49.44	44.20	9.04	31.60	-3.56	45.88	54.00	-8.12	AV	Horizontal
5359.70	48.73	44.20	9.86	32.00	-2.34	46.39	74.00	-27.61	PK	Vertical
5359.70	39.18	44.20	9.86	32.00	-2.34	36.84	54.00	-17.16	AV	Vertical
5359.84	48.40	44.20	9.86	32.00	-2.34	46.06	74.00	-27.94	PK	Horizontal
5359.84	38.40	44.20	9.86	32.00	-2.34	36.06	54.00	-17.94	AV	Horizontal
7439.77	54.24	43.50	11.40	35.50	3.40	57.64	74.00	-16.36	PK	Vertical
7439.77	43.86	43.50	11.40	35.50	3.40	47.26	54.00	-6.74	AV	Vertical
7439.95	54.84	43.50	11.40	35.50	3.40	58.24	74.00	-15.76	PK	Horizontal
7439.95	44.05	43.50	11.40	35.50	3.40	47.45	54.00	-6.55	AV	Horizontal

Note:

- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

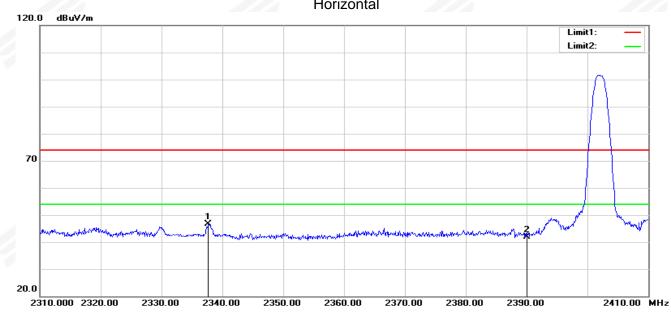
Emission Level = Reading + Factor

3) 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.

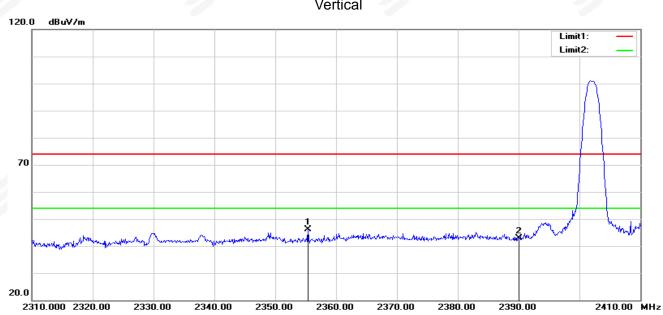


4.6 TEST RESULTS (Restricted Bands Requirements)





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2337.700	42.92	3.68	46.60	74.00	-27.40	peak
2	2390.000	37.53	4.34	41.87	74.00	-32.13	peak



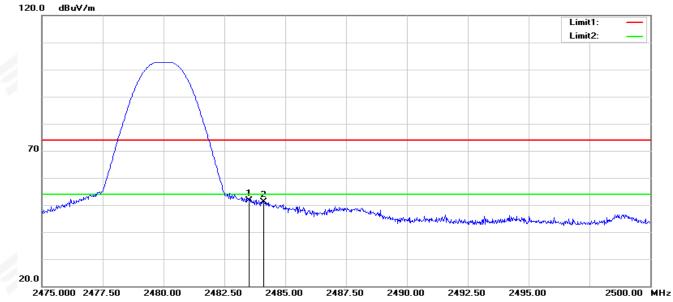
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2355.400	42.21	3.82	46.03	74.00	-27.97	peak
2	2390.000	38.53	4.34	42.87	74.00	-31.13	peak

Vertical

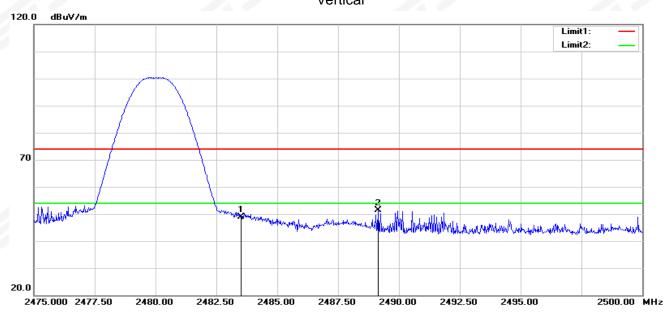


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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	47.13	4.60	51.73	74.00	-22.27	peak
2	2484.100	46.56	4.61	51.17	74.00	-22.83	peak

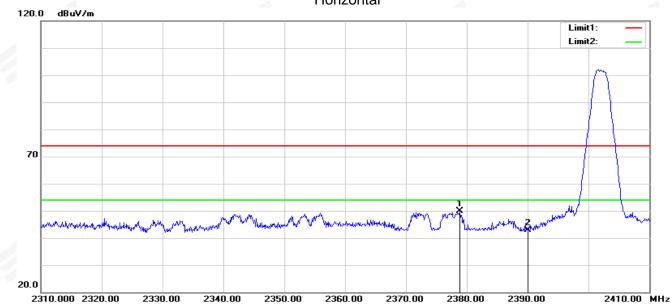


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	44.24	4.60	48.84	74.00	-25.16	peak
2	2489.150	46.68	4.62	51.30	74.00	-22.70	peak

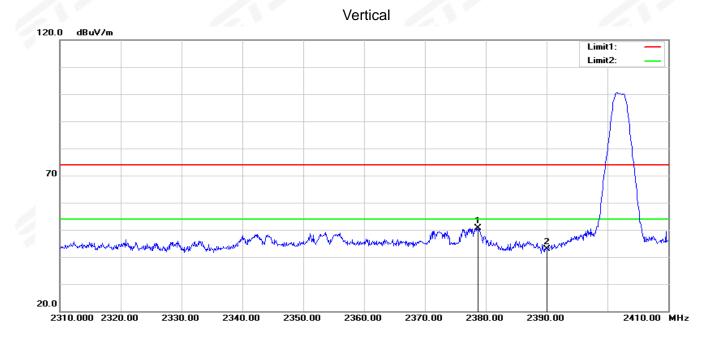
Vertical



2M PHY GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2378.800	45.78	4.17	49.95	74.00	-24.05	peak
2	2390.000	38.66	4.34	43.00	74.00	-31.00	peak

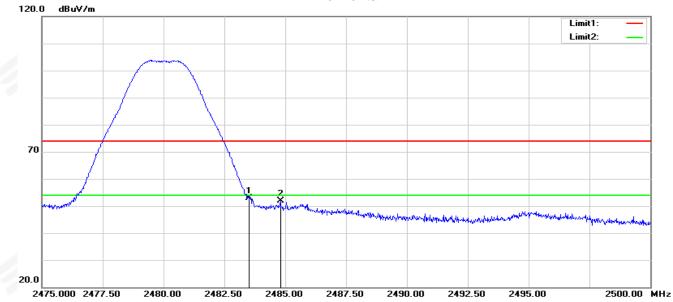


	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2378.700	46.42	4.17	50.59	74.00	-23.41	peak
P	2	2390.000	38.47	4.34	42.81	74.00	-31.19	peak

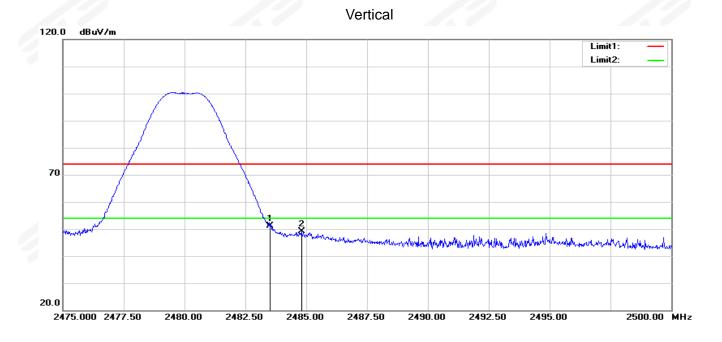


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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	48.22	4.60	52.82	74.00	-21.18	peak
2	2484.800	47.15	4.61	51.76	74.00	-22.24	peak



	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	46.55	4.60	51.15	74.00	-22.85	peak
5	2	2484.800	44.53	4.61	49.14	74.00	-24.86	peak

Note: All modes have been measurement, only worst mode was reported.



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 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

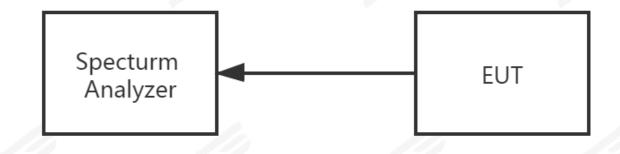
6.1 LIMIT

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



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.



7.1 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≥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≥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 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 averaging conducted output powe r of a DTS EUT.

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, foll owed by duty cycle correction. The procedure for this method is as follows:

a) Measure the duty cycle D of the transmitter output signal as described in 11.6.

b) Set span to at least 1.5 times the OBW.

c) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.

d) Set VBW \geq [3 × RBW].

e) Number of points in sweep \geq [2 × span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so th at narrowband signals are not lost between frequency bins.)

f) Sweep time = auto.

g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode . h) Do not use sweep triggering. Allow the sweep to "free run."

i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of trac es to be averaged shall be increased above 100 as needed such that the average accurately re presents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the OBW of the signal using the instrument 's band power measurement function with band limits set equal to the OBW band edges. If the in strument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average o ver both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

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

RBW ≥ 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 \times 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:

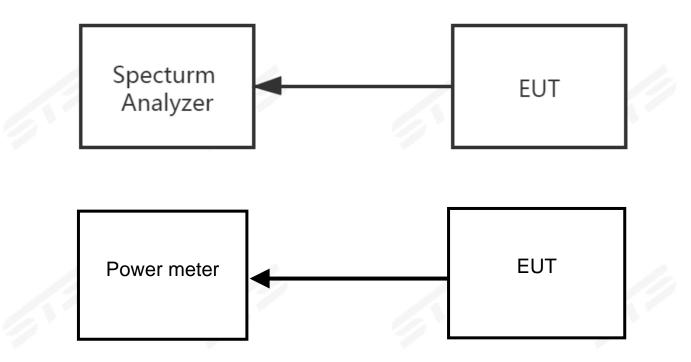
- a) Set the RBW = 1 MHz.
- b) Set the VBW \geq [3 × RBW].
- c) Set the span \geq [1.5 × DTS bandwidth].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

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.

8.3 TEST SETUP



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 Stamped metal antenna Antenna. It comply with the standard requirement.

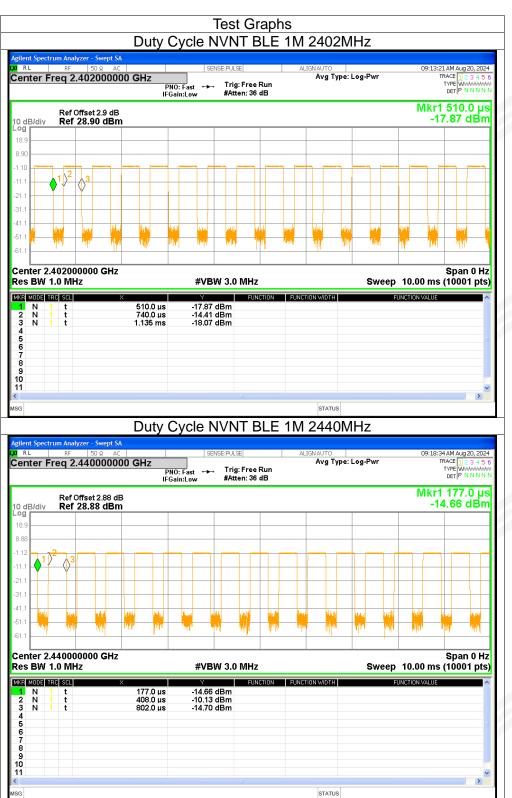


1. Duty Cycle

	- /				
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	63.2	1.99	2.53
NVNT	BLE 1M	2440	63.04	2	2.54
NVNT	BLE 1M	2480	63.04	2	2.54
NVNT	BLE 2M	2402	33.65	4.73	4.75
NVNT	BLE 2M	2440	33.6	4.74	4.76
NVNT	BLE 2M	2480	33.6	4.74	4.76

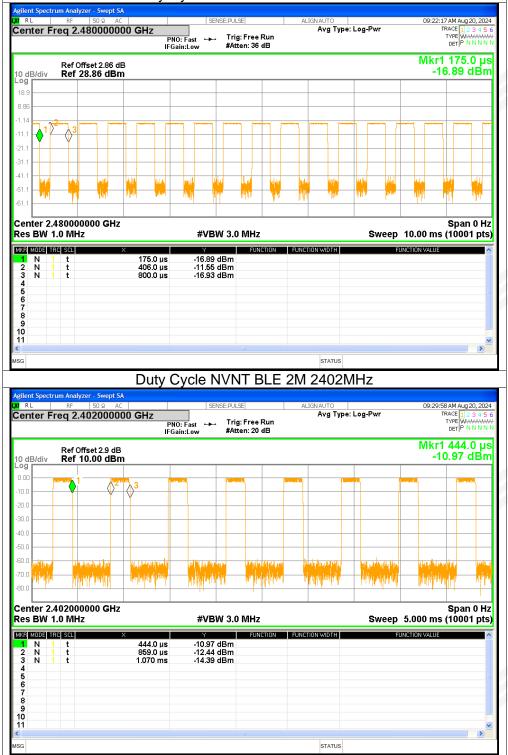


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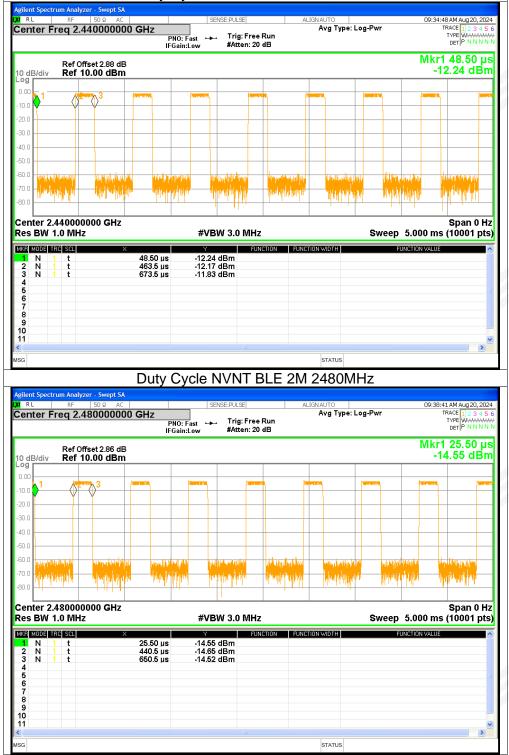
Duty Cycle NVNT BLE 1M 2480MHz



4



Duty Cycle NVNT BLE 2M 2440MHz



19



2. Maximum Average Conducted Output Power

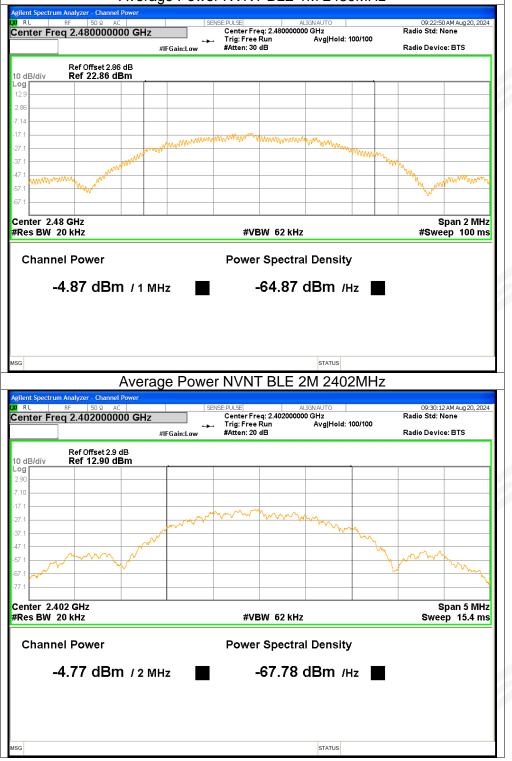
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-1.46	1.99	0.53	<=30	Pass
NVNT	BLE 1M	2440	-2.93	2	-0.93	<=30	Pass
NVNT	BLE 1M	2480	-4.87	2	-2.87	<=30	Pass
NVNT	BLE 2M	2402	-4.77	4.73	-0.04	<=30	Pass
NVNT	BLE 2M	2440	-5.7	4.74	-0.96	<=30	Pass
NVNT	BLE 2M	2480	-7.68	4.74	-2.94	<=30	Pass





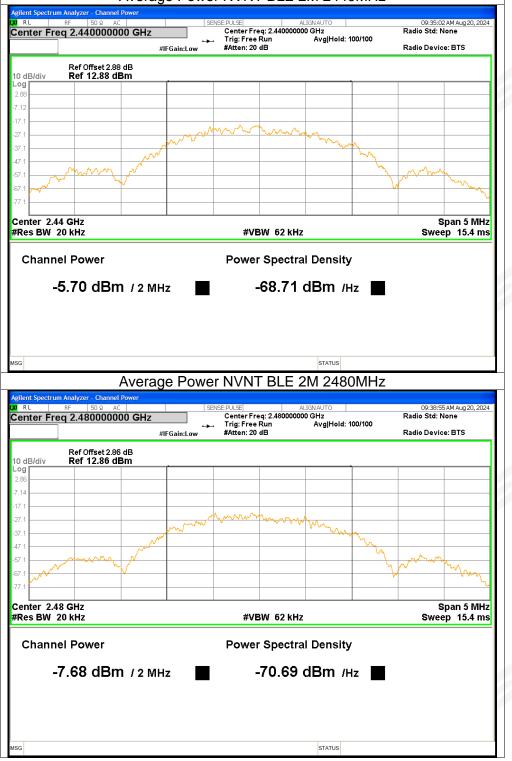


Average Power NVNT BLE 1M 2480MHz





Average Power NVNT BLE 2M 2440MHz



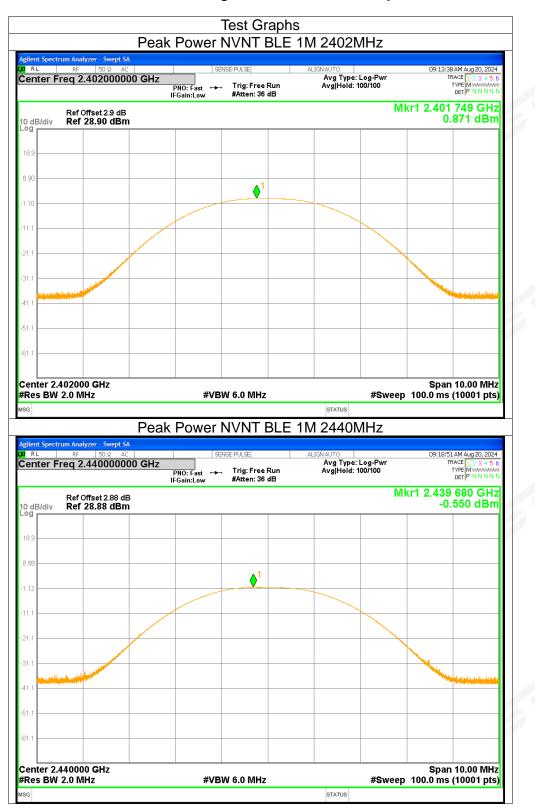


3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.87	<=30	Pass
NVNT	BLE 1M	2440	-0.55	<=30	Pass
NVNT	BLE 1M	2480	-2.54	<=30	Pass
NVNT	BLE 2M	2402	0.27	<=30	Pass
NVNT	BLE 2M	2440	-0.48	<=30	Pass
NVNT	BLE 2M	2480	-2.49	<=30	Pass



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1



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Peak Power NVNT BLE 1M 2480MHz 34 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.479 752 GHz Ref Offset 2.86 dB Ref 28.86 dBm -2.537 dBm 10 dB/div 31 41. 61 Center 2.480000 GHz Span 10.00 MHz #VBW 6.0 MHz #Sweep 100.0 ms (10001 pts) #Res BW 2.0 MHz STATUS ISG Peak Power NVNT BLE 2M 2402MHz gilent Spectrum Analyzer - Swept SA 09:34:00 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N R L Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.401 520 GHz Ref Offset 2.9 dB Ref 28.90 dBm 0.272 dBm 10 dB/div 89 31.1 -41.1 -51 61. Center 2.402000 GHz Span 10.00 MHz #Res BW 2.0 MHz #VBW 6.0 MHz Sweep 1.333 ms (10001 pts) STATUS SG



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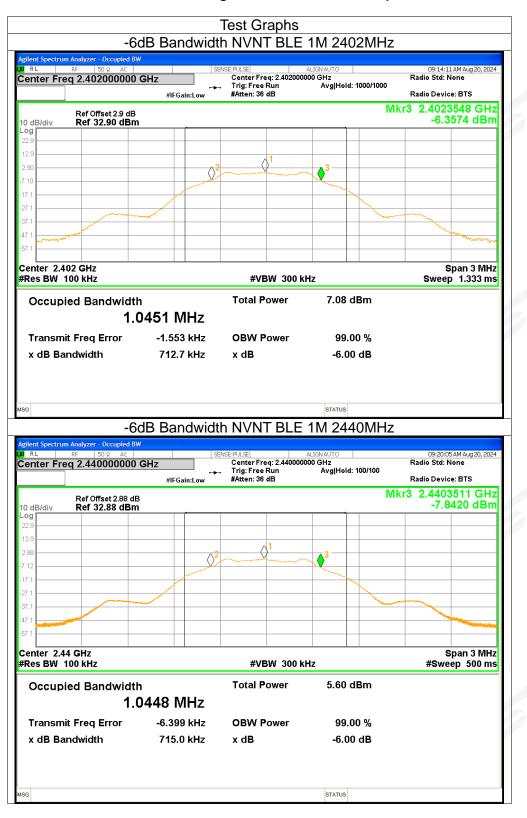
Peak Power NVNT BLE 2M 2440MHz D9:34:54 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N R L Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.439 407 GHz Ref Offset 2.88 dB Ref 28.88 dBm -0.484 dBm 10 dB/div 8.8 31 41.1 61 Center 2.440000 GHz Span 10.00 MHz #VBW 6.0 MHz Sweep 1.333 ms (10001 pts) #Res BW 2.0 MHz STATUS ISG Peak Power NVNT BLE 2M 2480MHz gilent Spectrum Analyzer - Swept SA 09:38:48 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.479 453 GHz -2.493 dBm Ref Offset 2.86 dB Ref 28.86 dBm 10 dB/div 8.8 ۵ 31.1 -41.1 -51 61. Center 2.480000 GHz Span 10.00 MHz #Res BW 2.0 MHz #VBW 6.0 MHz Sweep 1.333 ms (10001 pts) STATUS SG



4. -6dB Bandwidth

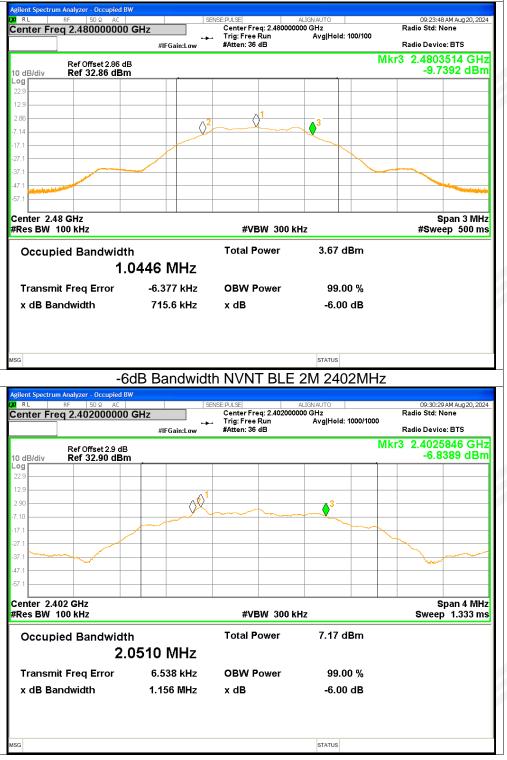
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.7127	>=0.5	Pass
NVNT	BLE 1M	2440	0.715	>=0.5	Pass
NVNT	BLE 1M	2480	0.7156	>=0.5	Pass
NVNT	BLE 2M	2402	1.1561	>=0.5	Pass
NVNT	BLE 2M	2440	1.1491	>=0.5	Pass
NVNT	BLE 2M	2480	1.1356	>=0.5	Pass





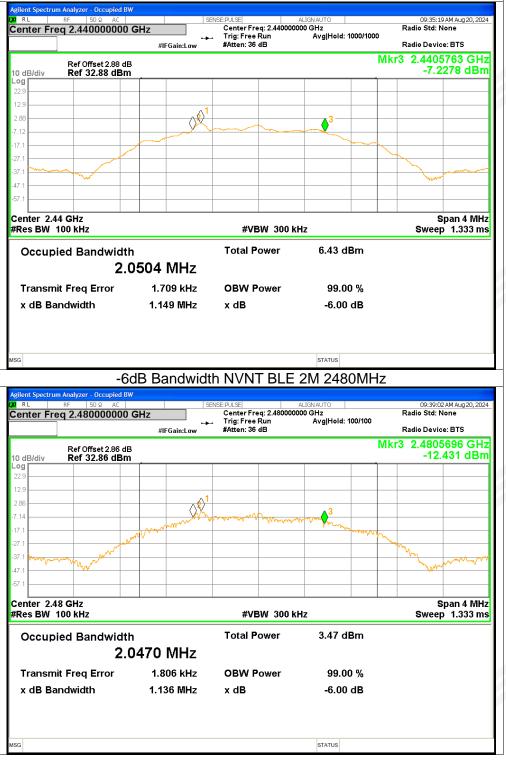


-6dB Bandwidth NVNT BLE 1M 2480MHz





-6dB Bandwidth NVNT BLE 2M 2440MHz



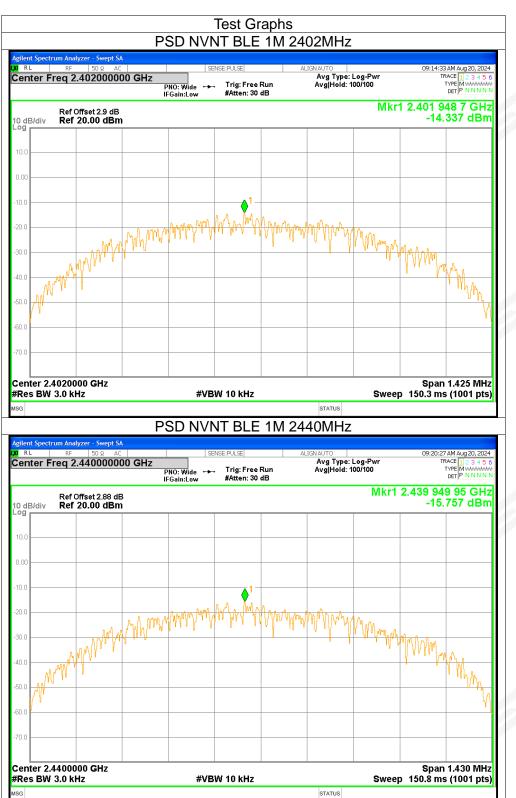


5. Maximum Power Spectral Density Level

		•			
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-14.34	<=8	Pass
NVNT	BLE 1M	2440	-15.76	<=8	Pass
NVNT	BLE 1M	2480	-17.71	<=8	Pass
NVNT	BLE 2M	2402	-18.12	<=8	Pass
NVNT	BLE 2M	2440	-18.97	<=8	Pass
NVNT	BLE 2M	2480	-20.97	<=8	Pass



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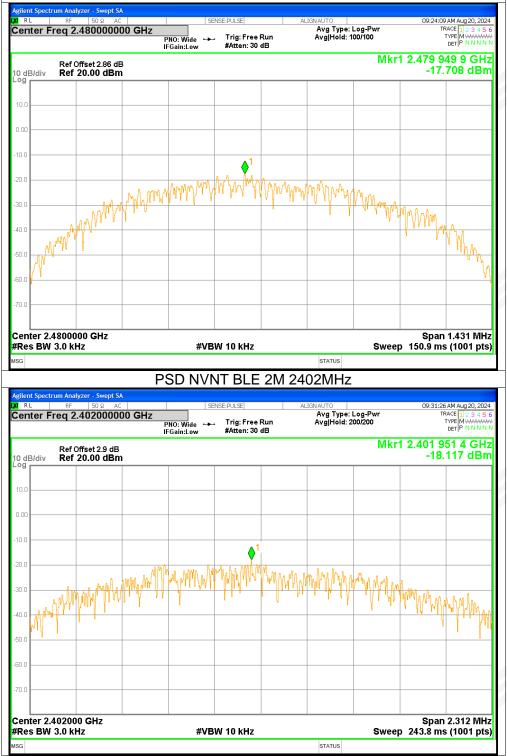


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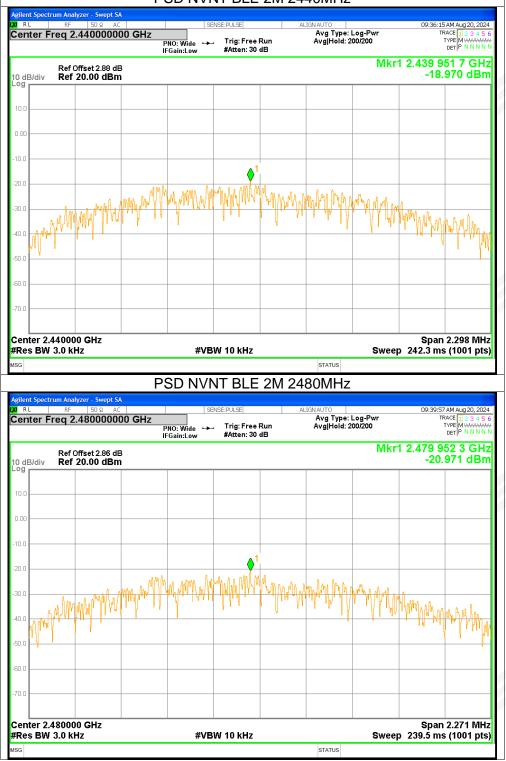
PSD NVNT BLE 1M 2480MHz



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PSD NVNT BLE 2M 2440MHz





6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-49.47	<=-20	Pass
NVNT	BLE 1M	2480	-45.25	<=-20	Pass
NVNT	BLE 2M	2402	-32.18	<=-20	Pass
NVNT	BLE 2M	2480	-45.97	<=-20	Pass











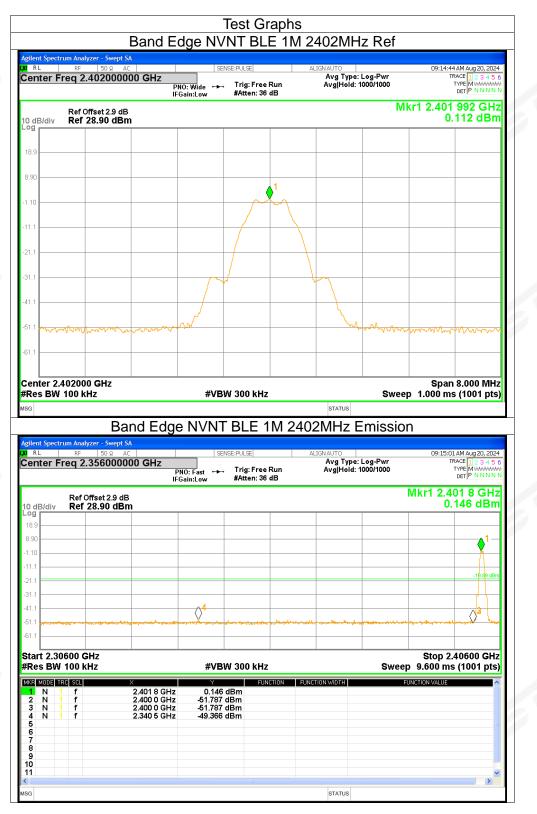








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9:24:20 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide 🔸 Mkr1 2.479 992 GHz Ref Offset 2.86 dB Ref 28.86 dBm -3.367 dBm 10 dB/div 31 41. 61 Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT BLE 1M 2480MHz Emission gilent Spectrum Analyzer - Swept SA B L Center Freq 2.526000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.480 0 GHz Ref Offset 2.86 dB -3.235 dBm 10 dB/div Ref 28.86 dBm 18 ' 8.8 31. -41. $\langle \rangle^3$ Ŵ 61. Stop 2.57600 GHz Start 2.47600 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) FUNCTION VALUE MKR MODE TRC SCL FUNCTION FUNCTION WIDTH -3.235 dBm -51.720 dBm -50.053 dBm -48.623 dBm 2.480 0 GHz 2.483 5 GHz 2.500 0 GHz 2.484 2 GHz N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG

Band Edge NVNT BLE 1M 2480MHz Ref



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37 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide 🔸 Mkr1 2.401 504 GHz Ref Offset 2.9 dB Ref 28.90 dBm -0.022 dBm 10 dB/div **≬**¹ 31 41. Center 2.402000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT BLE 2M 2402MHz Emission gilent Spectrum Analyzer - Swept SA B L Center Freg 2.356000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.401 5 GHz Ref Offset 2.9 dB 0.045 dBm 10 dB/div Ref 28.90 dBm 18 ' 8.9 21 31.1 41.1 51. -61. Stop 2.40600 GHz Start 2.30600 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) FUNCTION VALUE MKR MODE TRC SCL FUNCTION FUNCTION WIDTH 0.045 dBm -32.204 dBm -32.204 dBm -32.204 dBm 2.401 5 GHz 2.400 0 GHz 2.400 0 GHz 2.400 0 GHz 2.400 0 GHz N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG

Band Edge NVNT BLE 2M 2402MHz Ref



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08 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide 🔸 Mkr1 2.479 496 GHz Ref Offset 2.86 dB Ref 28.86 dBm -2.836 dBm 10 dB/div 31 41. Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT BLE 2M 2480MHz Emission gilent Spectrum Analyzer - Swept SA 09:40:25 AM Aug 20, 2024 B L Center Freq 2.526000000 GHz TRACE 1 2 3 4 5 (TYPE MWWWW DET P N N N N 1 Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.479 5 GHz Ref Offset 2.86 dB -2.664 dBm 10 dB/div Ref 28.86 dBm 18 ' 8.8 31. 41. ∩₿ 61. Stop 2.57600 GHz Start 2.47600 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) FUNCTION VALUE MKR MODE TRC SCL FUNCTION FUNCTION WIDTH -2.664 dBm -51.569 dBm -51.081 dBm -48.813 dBm 2.479 5 GHz 2.483 5 GHz 2.500 0 GHz 2.485 1 GHz N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG

Band Edge NVNT BLE 2M 2480MHz Ref

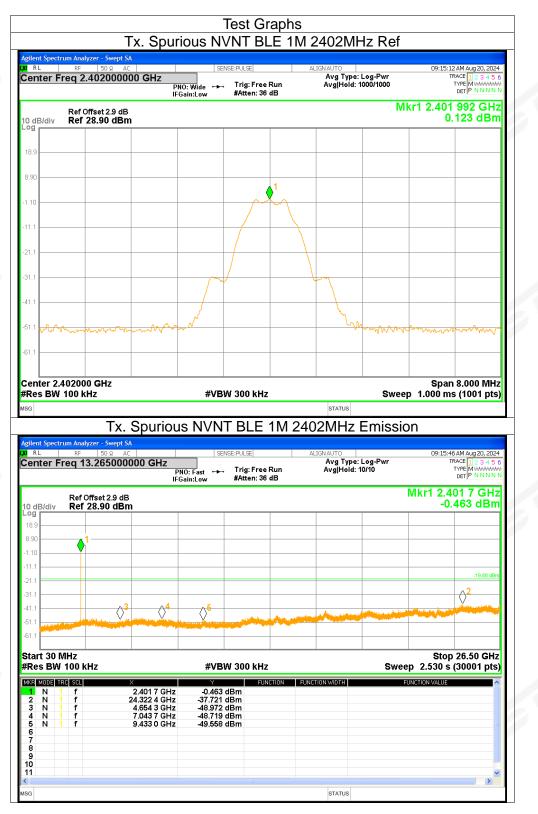


7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-37.84	<=-20	Pass
NVNT	BLE 1M	2440	-37.25	<=-20	Pass
NVNT	BLE 1M	2480	-34.44	<=-20	Pass
NVNT	BLE 2M	2402	-38.29	<=-20	Pass
NVNT	BLE 2M	2440	-36.71	<=-20	Pass
NVNT	BLE 2M	2480	-35.32	<=-20	Pass



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38 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N R L Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide ↔ IFGain:Low Mkr1 2.439 992 GHz Ref Offset 2.88 dB Ref 28.88 dBm -1.394 dBm 10 dB/div 31 41. 61 Center 2.440000 GHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 1M 2440MHz Emission gilent Spectrum Analyzer - Swept SA 09:21:08 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N B L Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.439 7 GHz Ref Offset 2 88 dB -2.581 dBm 10 dB/div Ref 28.88 dBm 18 ' 21.39 \Diamond^2 31. \$⁴-41. ⊘⁵ $\langle \rangle$ -61. Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH -2.581 dBm -38.648 dBm -49.190 dBm -49.053 dBm -50.603 dBm 2.439 7 GHz 25.686 5 GHz 4.991 4 GHz 7.163 7 GHz 9.636 8 GHz 1 2 3 4 5 6 7 8 9 10 11 N N N N N f STATUS SG

Tx. Spurious NVNT BLE 1M 2440MHz Ref



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Tx. Spurious NVNT BLE 1M 2480MHz Ref 9:24:49 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide ↔ IFGain:Low Mkr1 2.479 992 GHz Ref Offset 2.86 dB Ref 28.86 dBm -3.343 dBm 10 dB/div 31 41. 51. Center 2.480000 GHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 1M 2480MHz Emission gilent Spectrum Analyzer - Swept SA 09:25:19 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N B L Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.480 2 GHz Ref Offset 2 86 dB -3.710 dBm 10 dB/div Ref 28.86 dBm 18 ' 8.8 \Diamond^2 31. 41. \Diamond^{5} () $\langle \rangle$ -61. Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH 2.480 2 GHz 24.243 9 GHz 4.991 4 GHz 7.549 2 GHz 10.016 2 GHz -3.710 dBm -37.783 dBm -49.000 dBm -48.961 dBm -50.472 dBm 1 2 3 4 5 6 7 8 9 10 11 N N N N f STATUS SG



01 AM Aug 20, 2024 TRACE 1 2 3 4 5 (TYPE M WWWW DET P N N N N R L Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 200/200 Trig: Free Run #Atten: 36 dB PNO: Wide ↔ IFGain:Low Mkr1 2.401 512 GHz Ref Offset 2.9 dB Ref 28.90 dBm -0.073 dBm 10 dB/div **∆**¹ 31 41. 51. m m M. an Center 2.402000 GHz Span 8.000 MHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 2M 2402MHz Emission gilent Spectrum Analyzer - Swept SA 09:32:31 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N B L Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.401 7 GHz Ref Offset 2.9 dB -1.942 dBm 10 dB/div Ref 28.90 dBm 18 ' 8.9 31. ____5_ 41. $\langle \rangle^4$ Ô 61. Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH -1.942 dBm -38.366 dBm -48.947 dBm -48.347 dBm -48.506 dBm 2.401 7 GHz 26.489 4 GHz 4.976 4 GHz 7.074 5 GHz 9.424 2 GHz 1 2 3 4 5 6 7 8 9 10 11 N N N N STATUS SG

Tx. Spurious NVNT BLE 2M 2402MHz Ref



26 AM Aug 20, 2024 TRACE 1 2 3 4 5 (TYPE M WWWW DET P N N N N R L Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide ↔ IFGain:Low Mkr1 2.439 520 GHz Ref Offset 2.88 dB Ref 28.88 dBm -1.106 dBm 10 dB/div 41. Center 2.440000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 2M 2440MHz Emission gilent Spectrum Analyzer - Swept SA 09:37:24 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N B L Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 20/20 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.439 7 GHz Ref Offset 2 88 dB -1.686 dBm 10 dB/div Ref 28.88 dBm 18 ' -21.11 dE +⊘² 31. \$⁵-41. () $\langle \rangle$ -61. Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH -1.686 dBm -37.825 dBm -48.144 dBm -48.825 dBm -49.383 dBm 2.439 7 GHz 24.146 8 GHz 4.964 0 GHz 7.482 2 GHz 9.603 3 GHz 1 2 3 4 5 6 7 8 9 10 11 N N N N STATUS SG

Tx. Spurious NVNT BLE 2M 2440MHz Ref



37 AM Aug 20, 2024 TRACE 1 2 3 4 5 (TYPE M WWWW DET P N N N N R L Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 Trig: Free Run #Atten: 36 dB PNO: Wide ↔ IFGain:Low Mkr1 2.479 512 GHz Ref Offset 2.86 dB Ref 28.86 dBm -2.734 dBm 10 dB/div 31 41. Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) #Res BW 100 kHz STATUS ISG Tx. Spurious NVNT BLE 2M 2480MHz Emission gilent Spectrum Analyzer - Swept SA 09:41:35 AM Aug 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N B L Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 20/20 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 36 dB Mkr1 2.479 4 GHz Ref Offset 2 86 dB -4.427 dBm 10 dB/div Ref 28.86 dBm 18 ' 8.8 \Diamond^2 31. 41. \Diamond $\langle \rangle$ -61. Stop 26.50 GHz Sweep 2.530 s (30001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION VALUE FUNCTION FUNCTION WIDTH -4.427 dBm -38.051 dBm -48.651 dBm -48.751 dBm -49.577 dBm 2.479 4 GHz 25.607 1 GHz 4.981 7 GHz 7.524 5 GHz 10.059 5 GHz 1 2 3 4 5 6 7 8 9 10 11 N N N N STATUS SG

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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 * * * *