





SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200471905

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# TEST REPORT

**Application No.:** SZCR2412004719AT Applicant: Skyhigh Tech LLC

**Address of Applicant:** 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United

Skyhigh Tech LLC Manufacturer:

Address of Manufacturer: 1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United

**Equipment Under Test (EUT):** 

**EUT Name:** YKBP RC 2 Model No.: YKBP2

FCC ID: 2BLZI-YKBP22411

47 CFR Part 15, Subpart C 15.247 Standard(s):

2024-12-16 Date of Receipt:

**Date of Test:** 2025-01-14 to 2025-03-14

Date of Issue: 2025-03-25

Pass\* **Test Result:** 

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2025-03-25		Original			

Authorized for issue by:		
	Dorjar. I du ang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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#### **Test Summary** 2

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	



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### **General Information**

#### 4.1 Details of E.U.T.

Power supply:	Powered by Battery: 7.2V	
Operation Frequency:	1.4MHz mode A: 2403.5MHz-2467.5MHz(33channel)	
	1.4MHz mode B: 2405.12MHz-2469.12MHz(33channel)	
	1.4MHz mode C: 2404.69MHz-2464.69MHz(21channel)	
	1.4MHz mode D: 2406.31MHz-2466.31MHz(21channel)	
	3MHz mode A: 2405.5MHz-2465.5MHz(21channel)	
	3MHz mode B: 2408.2MHz-2468.2MHz(21channel)	
	3MHz mode C: 2407.88MHz-2457.88MHz(11channel)	
	3MHz mode D: 2411.12MHz-2461.12MHz(11channel)	
	5MHz mode A: 2404.5MHz-2469.5MHz(14channel)	
	5MHz mode C: 2405.26MHz-2462.26MHz(58channel)	
	5MHz mode D: 2411.74MHz-2468.74MHz(58channel)	
	10MHz mode A: 2407.5MHz-2467.5MHz(61channel)	
	10MHz mode C: 2407.75MHz-2453.75MHz(47channel)	
	10MHz mode D: 2421.25MHz-2467.25MHz(47channel)	
	20MHz mode A: 2412.5MHz-2462.5MHz(51channel)	
	20MHz mode C: 2413MHz-2435MHz(23channel)	
	20MHz mode D: 2440MHz-2462MHz(23channel)	
	40MHz mode A: 2422.5MHz-2452.5MHz(31channel)	
	60MHz mode A: 2432.5MHz-2442.5MHz(11channel)	
Channel Spacing:	1.4MHz mode A: 2MHz	
	1.4MHz mode B: 2MHz	
	1.4MHz mode C: 3MHz	
	1.4MHz mode D: 3MHz	
	3MHz mode A: 3MHz	
	3MHz mode B: 3MHz	
	3MHz mode C: 5MHz	
	3MHz mode D: 5MHz	
	5MHz mode A: 5MHz	
	5MHz mode C: 1MHz	
	5MHz mode D: 1MHz	
	10MHz mode A: 1MHz	
	10MHz mode C: 1MHz	
	10MHz mode D: 1MHz	
	20MHz mode A: 1MHz	
	20MHz mode C: 1MHz	
	20MHz mode D: 1MHz	
	40MHz mode A: 1MHz	



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	60MHz mode A: 1MHz
Modulation Type:	OFDM
Antenna Type:	Integral Antenna
Antenna Gain:	Ant 0: 2.5dBi; Ant 1: 2.5dBi; Ant 4: 2.5dBi; Ant 5: 2.5dBi
Remark:	Two antennas can simultaneous transmission
Antenna Number:	4
Cable Loss (for RF conducted test):	0.9dB

Remark: The information in this section is provided by the applicant or manufacturer. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
		-				
The EUT has been tested as an independent unit.						

#### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm$ 6.0dB for 3m; $\pm$ 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispt/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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#### 5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2025-01-8	2026-01-7
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14 2025-03-03	2025-03-13 2026-03-02

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2025-01-7	2026-01-6
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14 2025-03-04	2025-03-13 2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6
Low Noise Amplifier 1G- 18GHz Tonscend		TAP01018050	SZ-WRG-M- 051	2025-01-7	2026-01-6
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2025-01-8	2026-01-7
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber CRTSGSSA		N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-14	2025-03-13
Power Sensor	131 PA33	13P32023R	3EM009-20	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
Fower Sensor	KETSIGITI	02021XA	3E101009-10	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	NOOOOA	SEM004-19	2024-03-14	2025-03-13
MAA Signal Analyzei	KETSIGHT	KEYSIGHT N9020A		2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-	SEM021-09	2024-03-14	2025-03-13
Attenuator	Huber+Sunner	1	3EIVIUZ1-09	2025-03-03	2026-03-02



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General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-14 2025-03-03	2025-03-13 2026-03-02	



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### Radio Spectrum Technical Requirement

#### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

#### Standard Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is: Ant 0: 2.5dBi; Ant 1: 2.5dBi; Ant 4: 2.5dBi; Ant 5: 2.5dBi.

Antenna combination (MIMO mode)	Directional Gain (dBi)
ANTO &ANT1	5.51
ANTO &ANT5	5.51
ANT1 &ANT4	5.51
ANT5 &ANT5	5.51

Antenna location: Refer to internal photo.



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## **Radio Spectrum Matter Test Results**

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amicaian/MII-	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Atmospheric Pressure: 1020 mbar Humidity: 44.5 % RH

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	TX mode (2.4G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	16	TX mode (2.4G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	18	TX mode (2.4G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	20	TX mode (2.4G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	22	TX mode (2.4G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	24	TX mode (2.4G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	26	TX mode (2.4G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter



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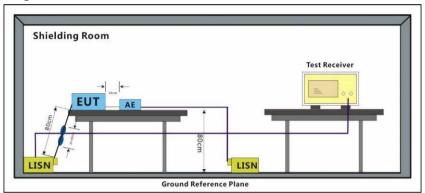
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#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50uH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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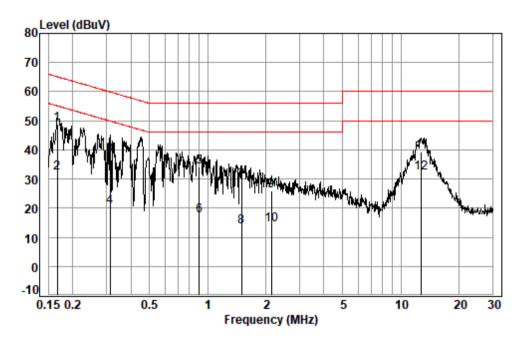


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Test Mode: 14: Line: Live line



: Shielding Room

Condition: Line Job No. : 04719AT

Test mode: 14

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MII-							
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1668	0.06	10.17	38.47	48.70	65.12	-16.42	QP
2	0.1668	0.06	10.17	21.78	32.01	55.12	-23.11	Average
3	0.3133	0.07	9.82	28.45	38.34	59.88	-21.54	QP
4	0.3133	0.07	9.82	10.61	20.50	49.88	-29.38	Average
5	0.9039	0.09	9.60	24.42	34.11	56.00	-21.89	QP
6	0.9039	0.09	9.60	7.59	17.28	46.00	-28.72	Average
7	1.5033	0.10	9.58	19.68	29.36	56.00	-26.64	QP
8	1.5033	0.10	9.58	3.97	13.65	46.00	-32.35	Average
9	2.1439	0.10	9.59	16.22	25.91	56.00	-30.09	QP
10	2.1439	0.10	9.59	4.61	14.30	46.00	-31.70	Average
11	12.7837	0.24	9.83	29.30	39.37	60.00	-20.63	QP
12 *	12.7837	0.24	9.83	22.18	32.25	50.00	-17.75	Average



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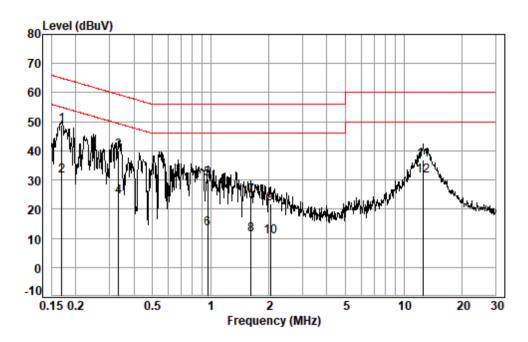


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Test Mode: 14: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04719AT

Test mode: 14

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1694	0.06	10.12	38.57	48.75	64.99	-16.24	QP
2		0.1694	0.06	10.12	21.11	31.29	54.99	-23.70	Average
3		0.3338	0.07	9.76	30.27	40.10	59.35	-19.25	QP
4		0.3338	0.07	9.76	14.37	24.20	49.35	-25.15	Average
5		0.9633	0.09	9.55	20.79	30.43	56.00	-25.57	QP
6		0.9633	0.09	9.55	3.52	13.16	46.00	-32.84	Average
7		1.6190	0.10	9.55	14.99	24.64	56.00	-31.36	QP
8		1.6190	0.10	9.55	1.51	11.16	46.00	-34.84	Average
9		2.0441	0.10	9.55	12.08	21.73	56.00	-34.27	QP
10		2.0441	0.10	9.55	0.71	10.36	46.00	-35.64	Average
11		12.6489	0.23	9.74	26.94	36.91	60.00	-23.09	QP
12	*	12.6489	0.23	9.74	21.36	31.33	50.00	-18.67	Average



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#### 7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 58.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Pre-scan	14	TX mode (2.4G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Pre-scan	16	TX mode (2.4G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Pre-scan	18	TX mode (2.4G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Pre-scan	20	TX mode (2.4G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and



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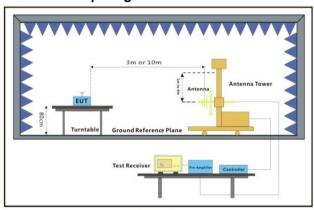
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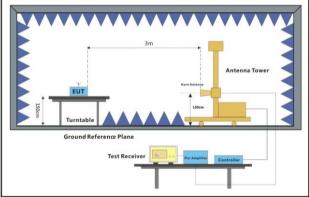
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		charged by adapter
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Pre-scan	22	TX mode (2.4G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Pre-scan	24	TX mode (2.4G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	26	TX mode (2.4G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

#### 7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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#### 7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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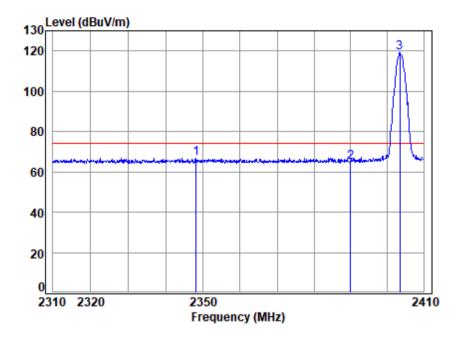


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 20 of 357

Test Mode: 13; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2403.5 Band edge

: 2.4G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2348.099	6.80	27.30	31.53	64.34	66.91	74.00	-7.09	peak	
	2390.000	6.82	27.46	31.54	62.21	64.95	74.00	-9.05	peak	
nn	2403 500	6 85	27 51	31 54	116 13	118 95	74 00	44 95	neak	



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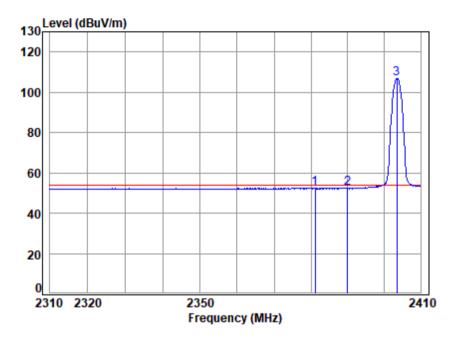


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 21 of 357

Test Mode: 13; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2403.5 Band edge

: 2.4G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2381.067	6.82	27.42	31.54	49.60	52.30	54.00	-1.70	Average	
	2390.000	6.82	27.46	31.54	49.42	52.16	54.00	-1.84	Average	
'n	2403 500	6 85	27 51	31 54	104 05	106 87	54 00	52 87	Average	



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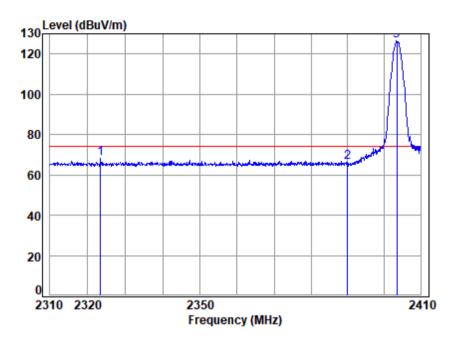


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Report No.: SZCR241200471905

Page: 22 of 357

Test Mode: 13; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 04719AT Mode : 2403.5 Band edge

: 2.4G SDR 1.4M

		3 3011								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2323.352	6.79	27.25	31.53	65.46	67.97	74.00	-6.03	peak	
	2390.000	6.82	27.46	31.54	63.68	66.42	74.00	-7.58	peak	
on	2403.500								•	



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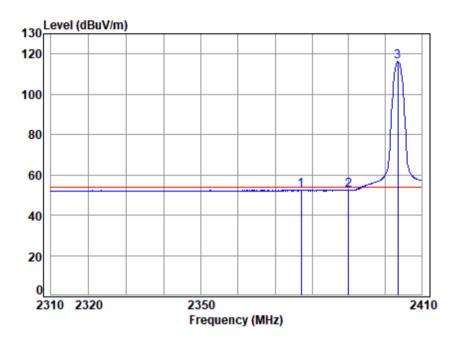


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 23 of 357

Test Mode: 13; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2403.5 Band edge

: 2.4G SDR 1.4M

							Limit			
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2377.034	6.82	27.41	31.54	49.65	52.34	54.00	-1.66	Average	
	2390.000	6.82	27.46	31.54	49.46	52.20	54.00	-1.80	Average	
'n	2/03 500	6 85	27 51	31 5/	113 37	116 19	5/ 00	62 19	Λνοροσο	



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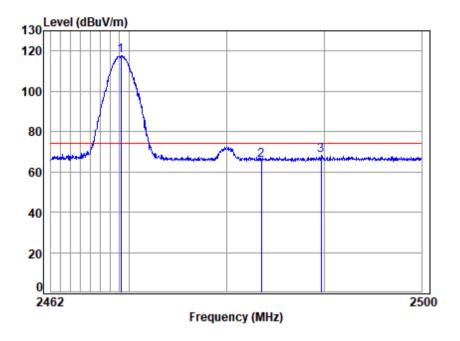


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 24 of 357

Test Mode: 13; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2469.12 Band edge

: 2.4G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	p 2469.120	7.30	27.71	31.55	114.06	117.52	74.00	43.52	peak
2	2483.500	7.40	27.80	31.55	62.31	65.96	74.00	-8.04	peak
3	2489 645	7 44	27 84	31 55	64 25	67 98	74 00	-6 02	neak



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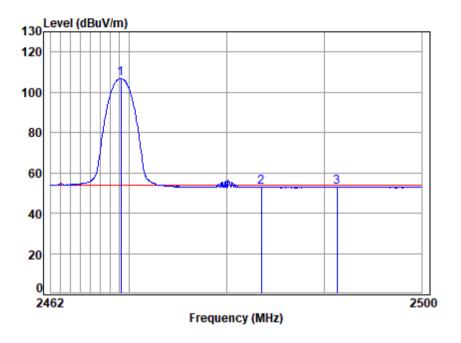


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Report No.: SZCR241200471905

Page: 25 of 357

Test Mode: 13; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2469.12 Band edge

: 2.4G SDR 1.4M

	Freq						Limit Line			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 pp	2469.120	7.30	27.71	31.55	103.30	106.76	54.00	52.76	Average	
2	2483.500	7.40	27.80	31.55	49.08	52.73	54.00	-1.27	Average	
3	2/191 285	7 /15	27 85	31 55	49 23	52 98	5/ 00	_1 02	Λυρρασο	



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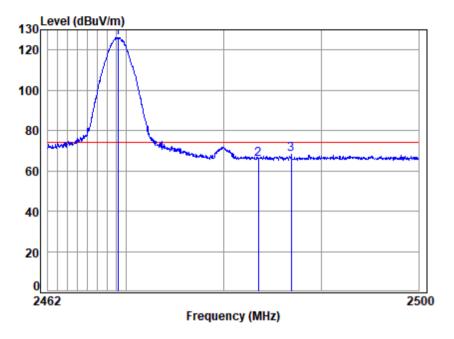


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 26 of 357

Test Mode: 13; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

2

: 04719AT Mode : 2469.12 Band edge

: 2.4G SDR 1.4M

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m dB 27.71 31.55 122.76 126.22 74.00 52.22 peak 1 pp 2469.120 7.30 2483.500 7.40 27.80 31.55 62.22 65.87 74.00 -8.13 peak 2486.900 7.42 27.82 31.55 64.40 68.09 74.00 -5.91 peak



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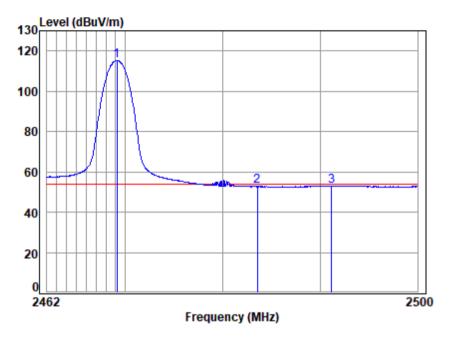


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 27 of 357

Test Mode: 13; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

2 3

Mode : 2469.12 Band edge

: 04719AT

: 2.4G SDR 1.4M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2469.120	7.30	27.71	31.55	111.80	115.26	54.00	61.26	Average
2	2483.500	7.40	27.80	31.55	49.02	52.67	54.00	-1.33	Average
3	2/191 132	7 45	27 85	31 55	49 11	52 86	54 00	_1 14	Average



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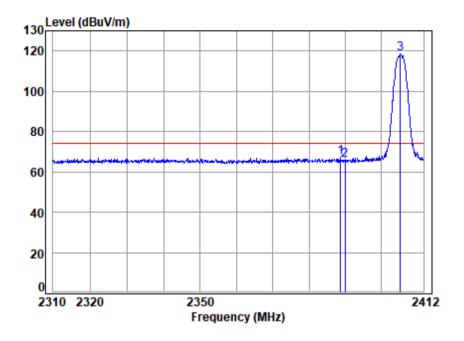


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 28 of 357

Test Mode: 15; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2405.5 Band edge

: 2.4G SDR 3M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2388.767	6.82	27.46	31.54	64.27	67.01	74.00	-6.99	peak	
	2390.000								•	
go	2405.500								•	



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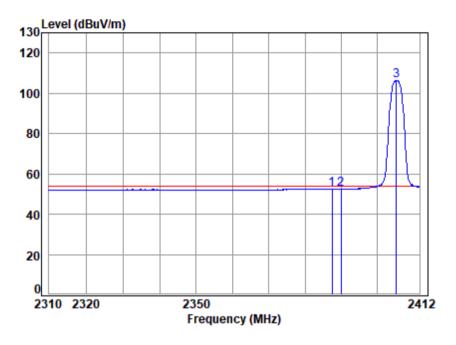


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 29 of 357

Test Mode: 15; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2405.5 Band edge

: 2.4G SDR 3M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2387.529	6.82	27.45	31.54	49.63	52.36	54.00	-1.64	Average	
	2390.000	6.82	27.46	31.54	49.52	52.26	54.00	-1.74	Average	
nn	2405 500	6 87	27 51	31 54	103 66	106 50	54 00	52 50	Average	



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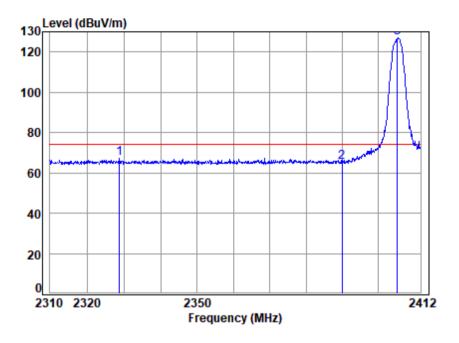


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 30 of 357

Test Mode: 15; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2405.5 Band edge

: 2.4G SDR 3M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2328.740	6.79	27.26	31.53	64.71	67.23	74.00	-6.77	peak
2	2390.000	6.82	27.46	31.54	62.36	65.10	74.00	-8.90	peak
3 рр	2405.500	6.87	27.51	31.54	123.95	126.79	74.00	52.79	peak



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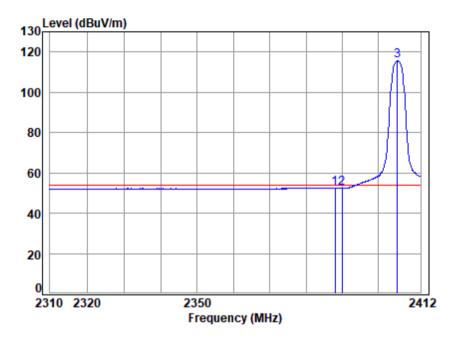


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 31 of 357

Test Mode: 15; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2405.5 Band edge

: 2.4G SDR 3M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2388.148	6.82	27.45	31.54	49.68	52.41	54.00	-1.59	Average	
	2390.000	6.82	27.46	31.54	49.50	52.24	54.00	-1.76	Average	
on	2405 500	6 87	27 51	31 54	112 61	115 45	54 00	61 45	Average	



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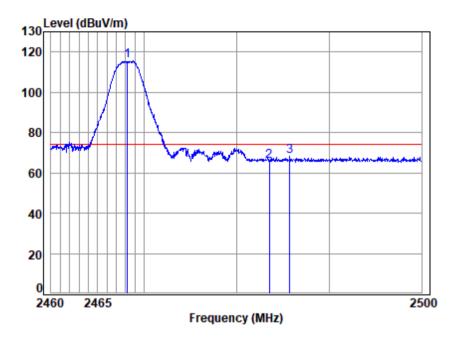


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 32 of 357

Test Mode: 15; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2468.2 Band edge

: 2.4G SDR 3M

			u 5011	2							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	l pp	2468.200	7.29	27.71	31.55	111.97	115.42	74.00	41.42	peak	
2	2	2483.500	7.40	27.80	31.55	62.09	65.74	74.00	-8.26	peak	
	3	2485.726	7.41	27.81	31.55	64.65	68.32	74.00	-5.68	neak	



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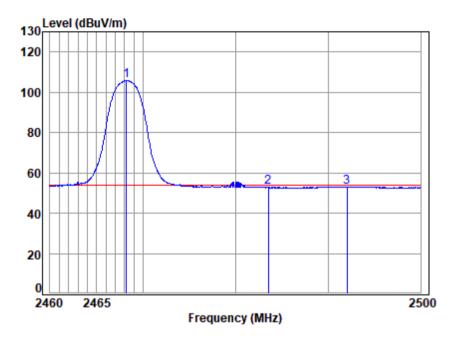


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 33 of 357

Test Mode: 15; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2468.2 Band edge

: 2.4G SDR 3M

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp 2468.200	7.29	27.71	31.55	102.21	105.66	54.00	51.66	Average	
2483.500	7.40	27.80	31.55	49.03	52.68	54.00	-1.32	Average	
2492 029	7 46	27 85	31 55	49 14	52 90	54 00	_1 10	Average	



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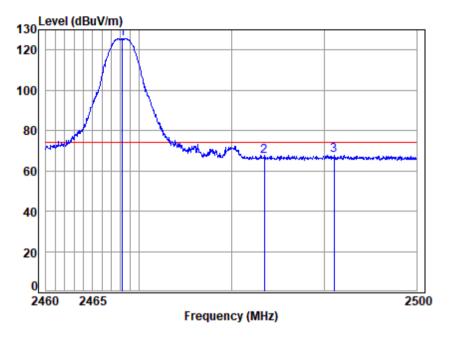


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 34 of 357

Test Mode: 15; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

2

: 04719AT : 2468.2 Band edge Mode

: 2.4G SDR 3M

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 27.71 31.55 122.28 125.73 1 pp 2468.200 7.29 74.00 51.73 peak -7.01 peak 2483.500 7.40 27.80 31.55 63.34 66.99 74.00 2491.024 7.45 27.85 31.55 63.94 67.69 74.00 -6.31 peak



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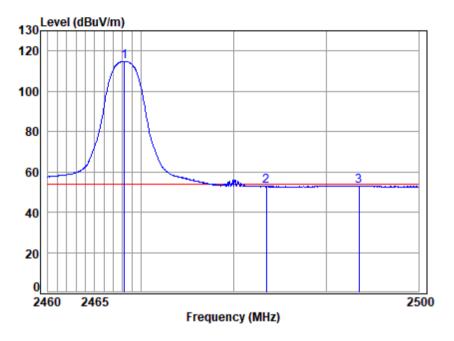


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 35 of 357

Test Mode: 15; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

2 3

: 04719AT Mode : 2468.2 Band edge

: 2.4G SDR 3M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2468.200	7.29	27.71	31.55	111.41	114.86	54.00	60.86	Average
2	2483.500	7.40	27.80	31.55	49.05	52.70	54.00	-1.30	Average
3	2/193 516	7 47	27 86	31 55	49 09	52 87	54 00	_1 13	Average



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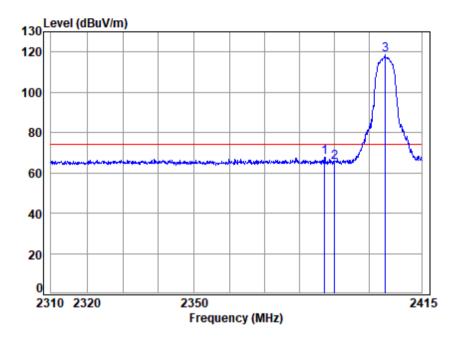


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 36 of 357

Test Mode: 17; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2404.5 Band edge

: 2.4G SDR 5M

		Cable	Ant	Preamp	Read		Limit	0ver	
F	req	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2387.	143	6.82	27.45	31.54	64.78	67.51	74.00	-6.49	peak
2390.	.000	6.82	27.46	31.54	62.27	65.01	74.00	-8.99	peak
n 2404	500	6.86	27.51	31.54	115.60	118.43	74.00	44.43	neak



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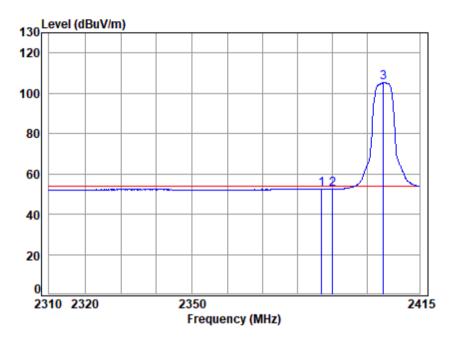


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

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Test Mode: 17; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2404.5 Band edge

: 2.4G SDR 5M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.825	6.82	27.45	31.54	49.76	52.49	54.00	-1.51	Average
2	2390.000	6.82	27.46	31.54	49.65	52.39	54.00	-1.61	Average
3 рр	2404.500	6.86	27.51	31.54	102.64	105.47	54.00	51.47	Average



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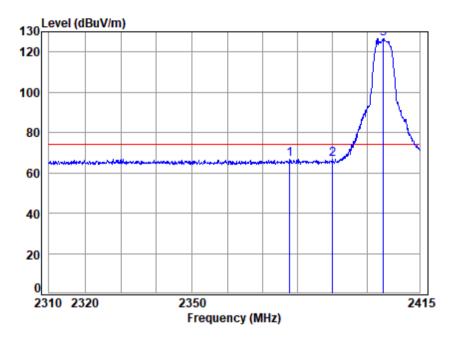


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 38 of 357

Test Mode: 17; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2404.5 Band edge

: 2.4G SDR 5M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2377.718 2390.000 2404.500	6.82	27.46	31.54	63.87	66.61	74.00	-7.39	peak



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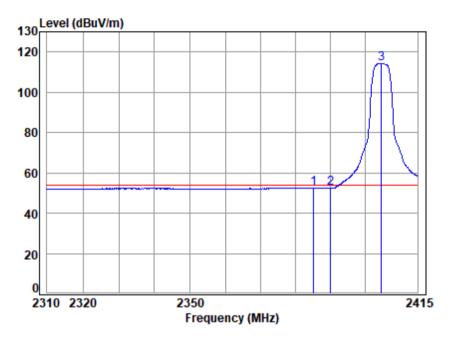


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Report No.: SZCR241200471905

Page: 39 of 357

Test Mode: 17; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2404.5 Band edge

: 2.4G SDR 5M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2385.128	6.82	27.44	31.54	49.71	52.43	54.00	-1.57	Average	
	2390.000	6.82	27.46	31.54	49.66	52.40	54.00	-1.60	Average	
on	2404 500	6 86	27 51	31 54	111 53	114 36	54 00	60 36	Average	



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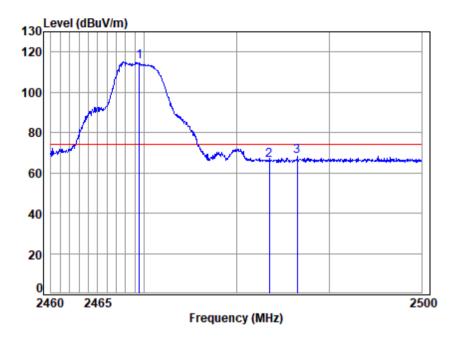


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 40 of 357

Test Mode: 17; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2469.5 Band edge

: 2.4G SDR 5M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2469.500	7.30	27.72	31.55	111.69	115.16	74.00	41.16	peak
2	2483.500	7.40	27.80	31.55	62.38	66.03	74.00	-7.97	peak
3	2486 528	7 42	27 82	31 55	64 49	68 09	74 00	-5 91	neak



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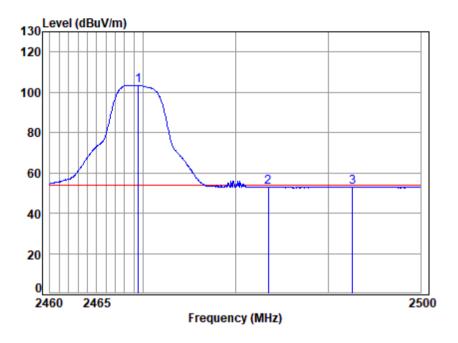


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 41 of 357

Test Mode: 17; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2469.5 Band edge

: 2.4G SDR 5M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2469.500	7.30	27.72	31.55	100.00	103.47	54.00	49.47	Average
2	2483.500	7.40	27.80	31.55	49.14	52.79	54.00	-1.21	Average
3	2492 592	7 46	27 86	31 55	49 21	52 98	54 00	_1 02	Average



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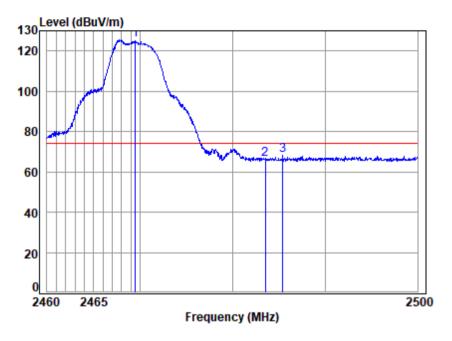


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 42 of 357

Test Mode: 17; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2469.5 Band edge

: 2.4G SDR 5M

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	рр	2469.500	7.30	27.72	31.55	122.10	125.57	74.00	51.57	peak	
2		2483.500	7.40	27.80	31.55	62.37	66.02	74.00	-7.98	peak	
3		2485, 405	7.41	27.81	31.55	64.50	68.17	74.00	-5.83	neak	



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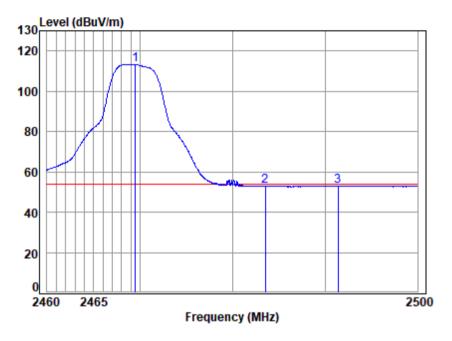


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 43 of 357

Test Mode: 17; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2469.5 Band edge

: 2.4G SDR 5M

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2469.500	7.30	27.72	31.55	109.78	113.25	54.00	59.25	Average	
2		2483.500	7.40	27.80	31.55	49.16	52.81	54.00	-1.19	Average	
3		2491.386	7.45	27.85	31.55	49.19	52.94	54.00	-1.06	Average	



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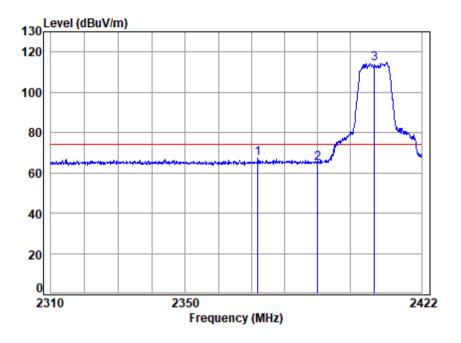


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 44 of 357

Test Mode: 19; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2407.5 Band edge

: 2.4G SDR 10M

Fr			t Preamp r Factor					
	1Hz o	dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
			9 31.54					•
2390.0	000 6.8	32 27.4	6 31.54	61.95	64.69	74.00	-9.31	peak
pp 2407.5	6.8	38 27.5	1 31.54	111.52	114.37	74.00	40.37	peak



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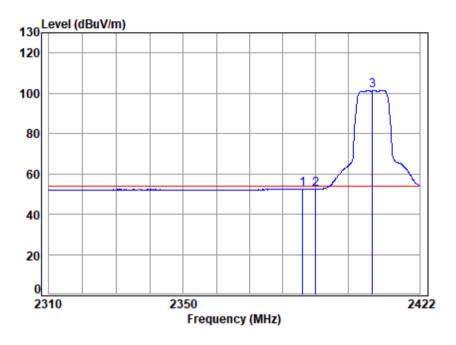


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Report No.: SZCR241200471905

Page: 45 of 357

Test Mode: 19; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2407.5 Band edge

: 2.4G SDR 10M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2386.146 2390.000 2407.500	6.82	27.46	31.54	49.62	52.36	54.00	-1.64	Average



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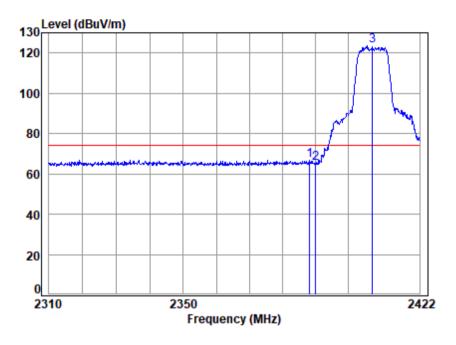


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 46 of 357

Test Mode: 19; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2407.5 Band edge

: 2.4G SDR 10M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.181	6.82	27.45	31.54	64.15	66.88	74.00	-7.12	peak
2	2390.000	6.82	27.46	31.54	62.68	65.42	74.00	-8.58	peak
3 рр	2407.500	6.88	27.51	31.54	120.84	123.69	74.00	49.69	peak



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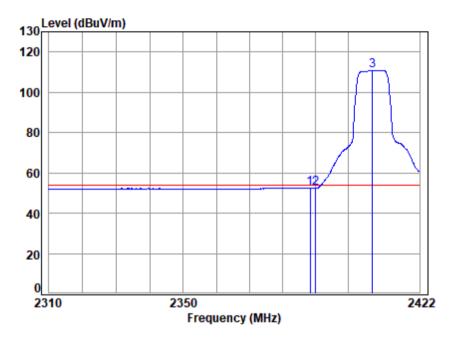


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 47 of 357

Test Mode: 19; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2407.5 Band edge

: 2.4G SDR 10M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	2388.407	6.82	27.45	31.54	49.71	52.44	54.00	-1.56	Average
2	2390.000	6.82	27.46	31.54	49.62	52.36	54.00	-1.64	Average
3 рр	2407.500	6.88	27.51	31.54	108.00	110.85	54.00	56.85	Average



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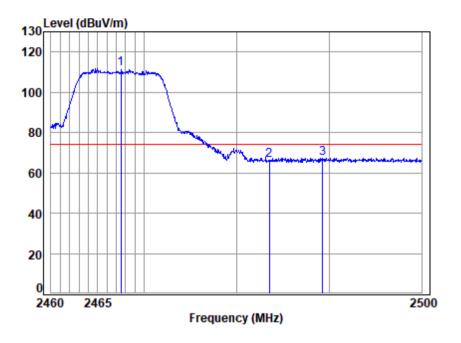


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Report No.: SZCR241200471905

Page: 48 of 357

Test Mode: 19; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2467.5 Band edge

: 2.4G SDR 10M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2467.500	7.29	27.70	31.55	108.12	111.56	74.00	37.56	peak
2	2483.500	7.40	27.80	31.55	62.36	66.01	74.00	-7.99	peak
3	2489 257	7 44	27 84	31 55	63 73	67 46	74 00	-6 54	neak



2 3

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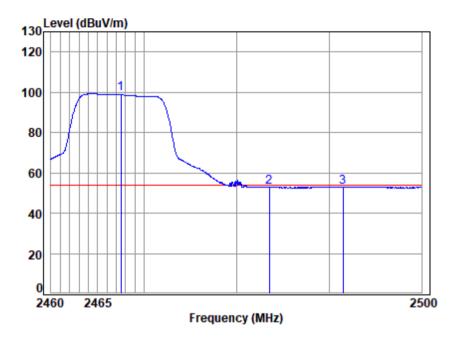


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

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Test Mode: 19; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2467.5 Band edge

: 2.4G SDR 10M

	. 2.7	u 2011	1011							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		١
1 pp	2467.500	7.29	27.70	31.55	95.82	99.26	54.00	45.26	Average	
	2483.500								_	
	2491.466								_	



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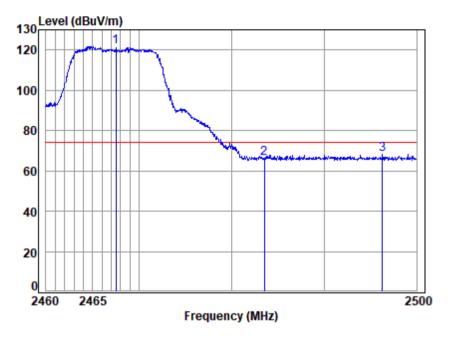


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200471905

Page: 50 of 357

Test Mode: 19; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

2 3

: 04719AT Mode : 2467.5 Band edge

: 2.4G SDR 10M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2467.500	7.29	27.70	31.55	118.29	121.73	74.00	47.73	peak
2	2483.500	7.40	27.80	31.55	62.50	66.15	74.00	-7.85	peak
3	2496 293	7 48	27 88	31 55	64 51	68 32	74 00	-5 68	neak



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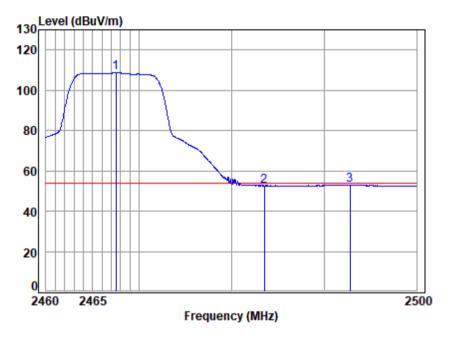


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Report No.: SZCR241200471905

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Test Mode: 19; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2467.5 Band edge

: 2.4G SDR 10M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp 2467.500	7.29	27.70	31.55	105.39	108.83	54.00	54.83	Average	
2	2483.500	7.40	27.80	31.55	48.95	52.60	54.00	-1.40	Average	
3	2492.752	7.46	27.86	31 55	49 06	52 83	54 00	-1 17	Average	



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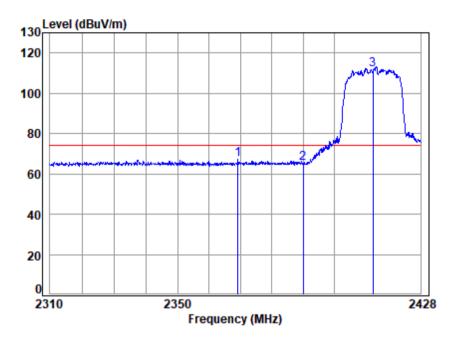


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Report No.: SZCR241200471905

Page: 52 of 357

Test Mode: 21; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412.5 Band edge

: 2.4G SDR 20M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2369.209 2390.000 2412.500	6.82	27.46	31.54	62.33	65.07	74.00	-8.93	peak



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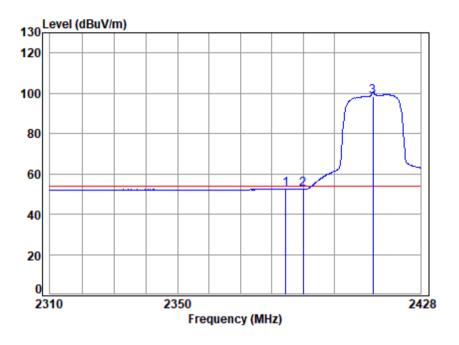


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2412.5 Band edge

: 2.4G SDR 20M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.366	6.82	27.44	31.54	49.71	52.43	54.00	-1.57	Average
2	2390.000	6.82	27.46	31.54	49.53	52.27	54.00	-1.73	Average
3 рр	2412.500	6.91	27.52	31.54	95.33	98.22	54.00	44.22	Average



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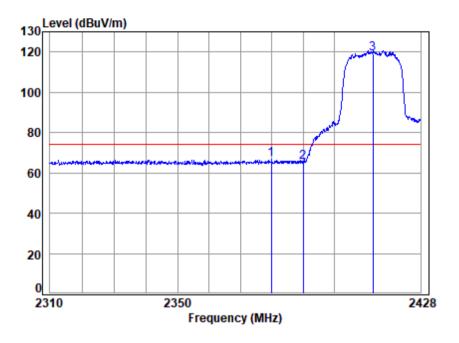


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2412.5 Band edge

: 2.4G SDR 20M

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2379.856 2390.000 2412.500	6.82	27.46	31.54	62.60	65.34	74.00	-8.66	peak



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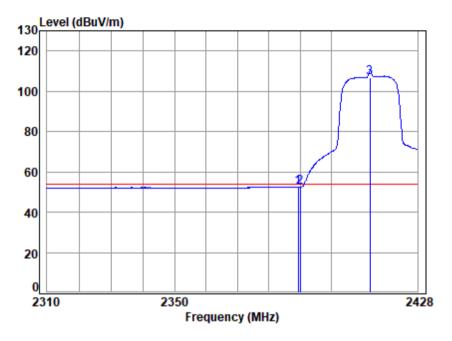


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2412.5 Band edge

: 2.4G SDR 20M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.360	6.82	27.46	31.54	49.68	52.42	54.00	-1.58	Average
2	2390.000	6.82	27.46	31.54	49.59	52.33	54.00	-1.67	Average
3 рр	2412.500	6.91	27.52	31.54	104.10	106.99	54.00	52.99	Average



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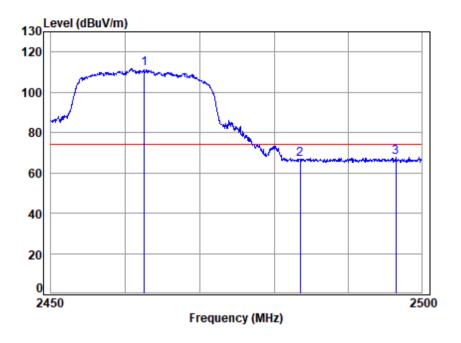


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462.5 Band edge

: 2.4G SDR 20M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.500	7.26	27.67	31.55	108.30	111.68	74.00	37.68	peak
	2483.500	7.40	27.80	31.55	63.01	66.66	74.00	-7.34	peak
	2496.518	7.49	27.88	31.55	63.72	67.54	74.00	-6.46	neak



1

3

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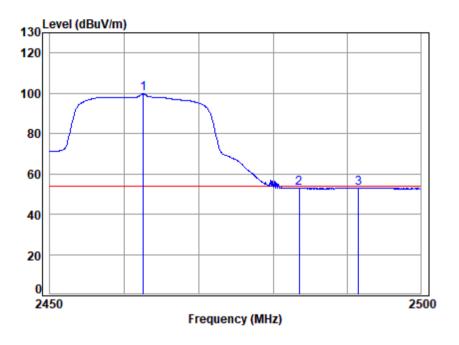


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2462.5 Band edge

: 2.4G SDR 20M

	Freq						Limit Line		
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.500								_
2	2483.500	7.40	27.80	31.55	49.17	52.82	54.00	-1.18	Average
3	2491.580	7.45	27.85	31.55	49.18	52.93	54.00	-1.07	Average



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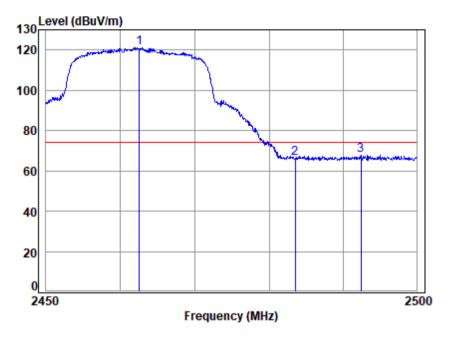


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Report No.: SZCR241200471905

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Test Mode: 21; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2462.5 Band edge

: 2.4G SDR 20M

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	p 2462.500	7.26	27.67	31.55	117.68	121.06	74.00	47.06	peak	
2	2483.500	7.40	27.80	31.55	62.52	66.17	74.00	-7.83	peak	
3	2492 436	7 46	27 85	31 55	64 19	67 95	74 00	-6 05	neak	



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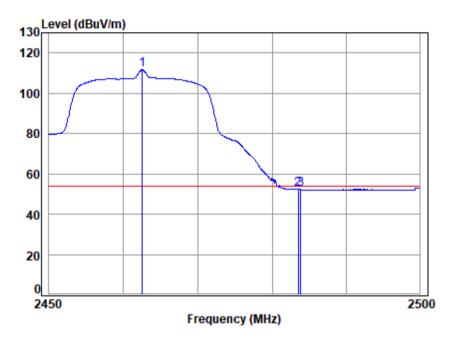


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Test Mode: 21; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL Job No : 04719AT

Mode : 2462.5 Band edge

: 2.4G SDR 20M

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2462.500	7.26	27.67	31.55	108.21	111.59	54.00	57.59	Average	
		2483.500								_	
		2483 840								_	



2 3

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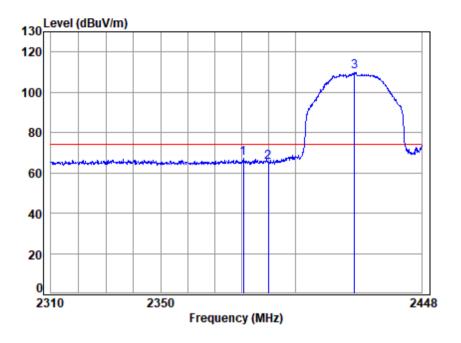


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422.5 Band edge

: 2.4G SDR 40M

	Freq						Limit Line		Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2380.622								•
2	2390.000	6.82	27.46	31.54	62.41	65.15	74.00	-8.85	peak
pp 2	2422.500	6.98	27.55	31.54	107.19	110.18	74.00	36.18	peak



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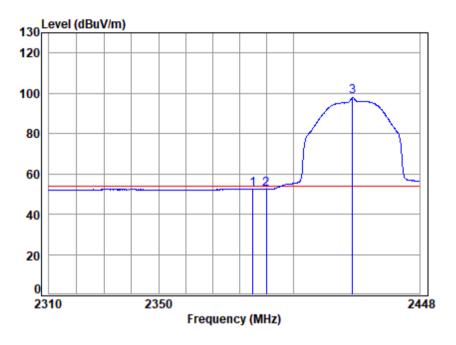


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422.5 Band edge

: 2.4G SDR 40M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.908	6.82	27.44	31.54	49.77	52.49	54.00	-1.51	Average
2	2390.000	6.82	27.46	31.54	49.59	52.33	54.00	-1.67	Average
3 рр	2422.500	6.98	27.55	31.54	95.31	98.30	54.00	44.30	Average



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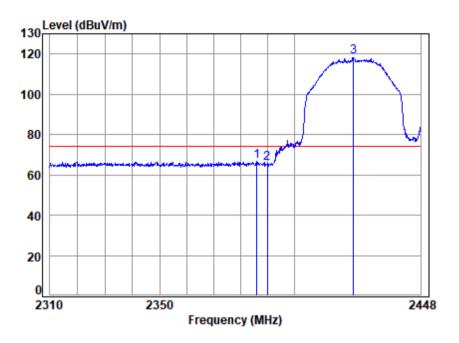


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 04719AT Mode : 2422.5 Band edge

: 2.4G SDR 40M

		u 5011								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2386.154	6.82	27.44	31.54	64.01	66.73	74.00	-7.27	peak	
)	2390.000	6.82	27.46	31.54	62.78	65.52	74.00	-8.48	peak	
	2422.500						74.00		•	



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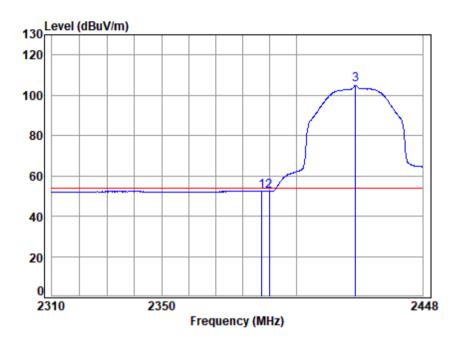


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 04719AT

Mode : 2422.5 Band edge

: 2.4G SDR 40M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2387.123 2390.000 2422.500	6.82	27.46	31.54	49.63	52.37	54.00	-1.63	Average



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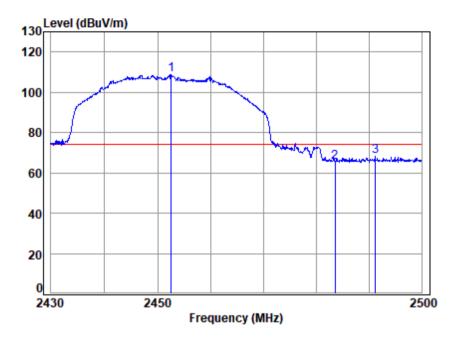


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452.5 Band edge

: 2.4G SDR 40M

		u 5011								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2452.500	7.19	27.61	31.55	105.29	108.54	74.00	34.54	peak	
	2483.500								-	
	2491,141								-	



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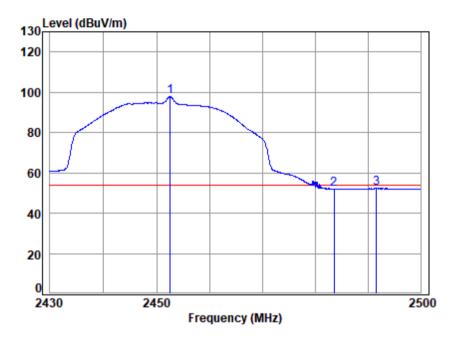


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452.5 Band edge

: 2.4G SDR 40M

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.500	7.19	27.61	31.55	94.53	97.78	54.00	43.78	Average
2	2483.500	7.40	27.80	31.55	48.39	52.04	54.00	-1.96	Average
3	2491.565	7.45	27.85	31.55	48.50	52.25	54.00	-1.75	Average



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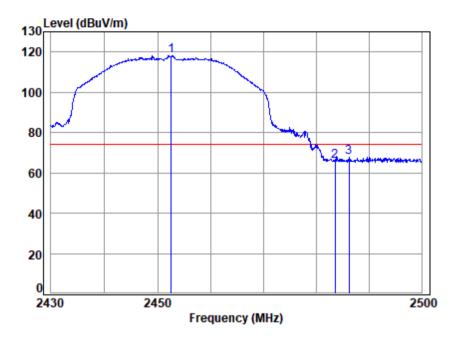


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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL Job No : 04719AT

Mode : 2452.5 Band edge

: 2.4G SDR 40M

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.500	7.19	27.61	31.55	115.06	118.31	74.00	44.31	peak
2	2483.500	7.40	27.80	31.55	62.11	65.76	74.00	-8.24	peak
3	2486.194	7.42	27.82	31.55	63.92	67.61	74.00	-6.39	peak



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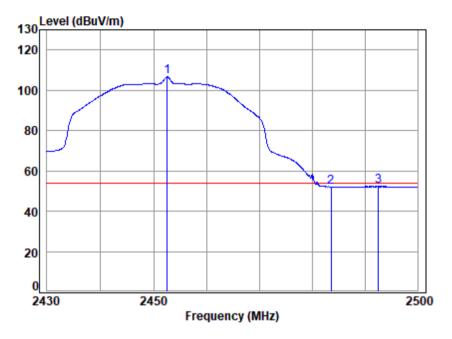


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Report No.: SZCR241200471905

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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

1 2 3

: 04719AT Mode : 2452.5 Band edge

: 2.4G SDR 40M

			9 2011								
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	pp	2452.500	7.19	27.61	31.55	103.33	106.58	54.00	52.58	Average	
)		2483.500								_	
		2492.485								_	



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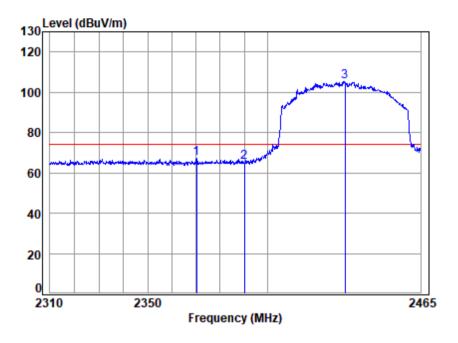


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Report No.: SZCR241200471905

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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2432.5 Band edge

: 2.4G SDR 60M

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2370.179 2390.000								•
pp 2432.500								•



2

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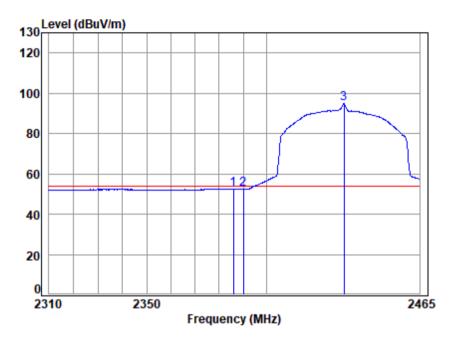


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Report No.: SZCR241200471905

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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2432.5 Band edge

: 2.4G SDR 60M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2385.932 2390.000 2432.500	6.82	27.46	31.54	49.63	52.37	54.00	-1.63	Average



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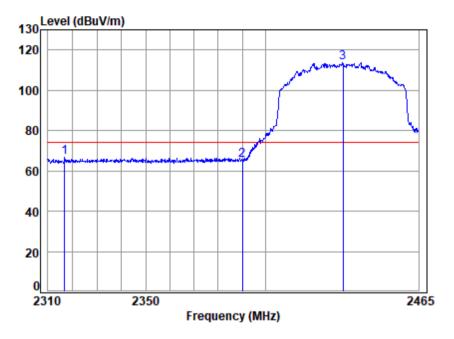


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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

1 2 3

: 04719AT Mode : 2432.5 Band edge

: 2.4G SDR 60M

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2316.761	6.79	27.23	31.53	64.08	66.57	74.00	-7.43	peak	
)	2390.000	6.82	27.46	31.54	62.58	65.32	74.00	-8.68	peak	
;	pp 2432.500	7.05	27.57	31.54	110.51	113.59	74.00	39.59	peak	



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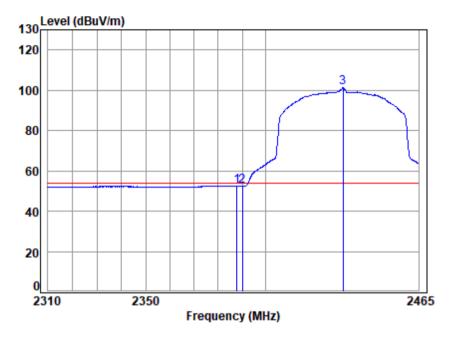


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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 04719AT Mode : 2432.5 Band edge

: 2.4G SDR 60M

	. 2.7	u 5011	0011							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2387.792	6.82	27.45	31.54	49.76	52.49	54.00	-1.51	Average	
	2390.000	6.82	27.46	31.54	49.68	52.42	54.00	-1.58	Average	
on	2432.500	7.05	27.57	31.54	98.39	101.47	54.00	47.47	Average	



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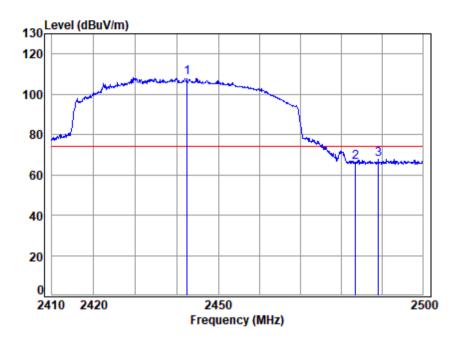


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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2442.5 Band edge

: 2.4G SDR 60M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2442.500	7.12	27.59	31.54	104.98	108.15	74.00	34.15	peak
2	2483.500	7.40	27.80	31.55	62.56	66.21	74.00	-7.79	peak
3	2489 116	7 44	27 83	31 55	64 92	67 74	74 00	-6 26	neak



2 3

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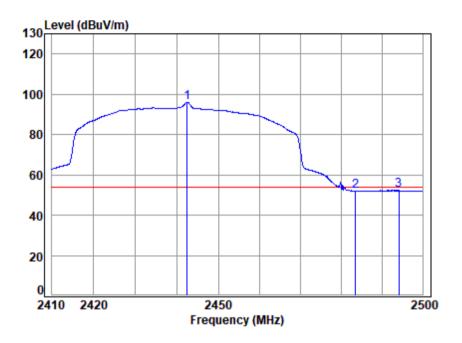


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Test Mode: 25; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2442.5 Band edge

: 2.4G SDR 60M

		0 3011	0011							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp 2442.500	7.12	27.59	31.54	92.94	96.11	54.00	42.11	Average	
	2483.500								_	
	2494.141								_	



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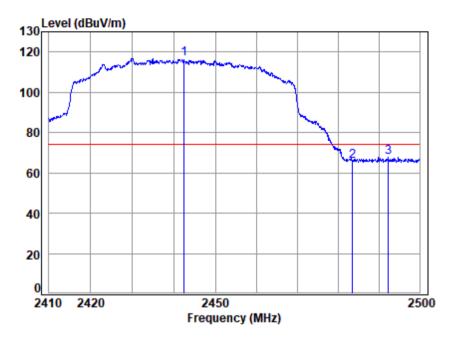


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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No

: 04719AT

Mode : 2442.5 Band edge

: 2.4G SDR 60M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1 pp	2442.500	7.12	27.59	31.54	113.63	116.80	74.00	42.80	peak
2	2483.500	7.40	27.80	31.55	62.11	65.76	74.00	-8.24	peak
3	2492.313	7.46	27.85	31.55	64.13	67.89	74.00	-6.11	peak



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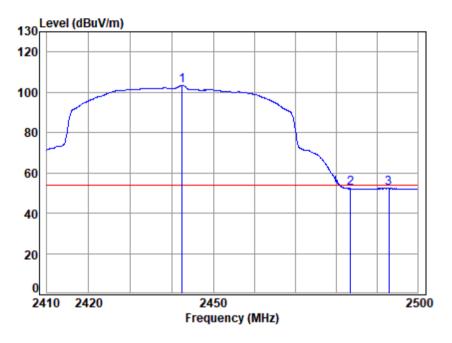


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Test Mode: 25; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2442.5 Band edge

: 2.4G SDR 60M

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2442.500	7.12	27.59	31.54	100.37	103.54	54.00	49.54	Average
	2483.500								
3	2492.861	7.46	27.86	31.55	48.50	52.27	54.00	-1.73	Average



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## 7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(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		
960-1000	500	3		

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Pre-scan	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode					
Final test	14	TX mode (2.4G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter					
Pre-scan	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode					
Pre-scan 16		mode (2.4G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and arged by adapter					
Pre-scan	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode					
Pre-scan	18	TX mode (2.4G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter					
Pre-scan	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode					
Pre-scan	20	TX mode (2.4G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter					
Pre-scan	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode					
Pre-scan	22	TX mode (2.4G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter					
Pre-scan	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode					



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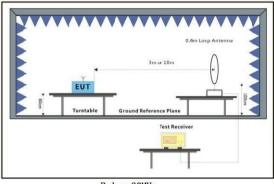
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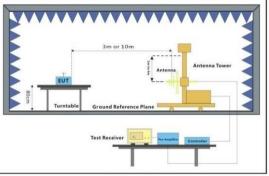
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Pre-scan	24	TX mode (2.4G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter
Pre-scan	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode
Pre-scan	26	TX mode (2.4G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter

## 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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#### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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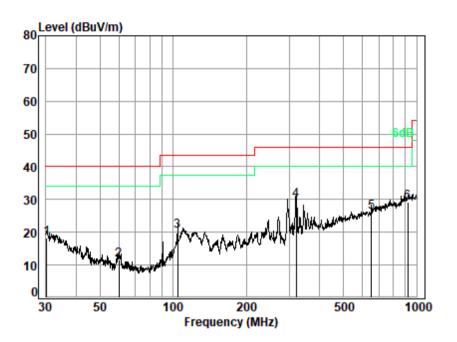


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Test Mode: 14; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04719AT

Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.10	0.67	27.79	24.37	18.35	40.00	-21.65	QP
2	59.859	11.50	0.95	27.71	26.80	11.54	40.00	-28.46	QP
3	104.170	12.22	1.25	27.57	34.57	20.47	43.50	-23.03	QP
4 q	319.937	18.51	2.28	26.83	35.81	29.77	46.00	-16.23	QP
5	651.942	24.86	3.40	27.84	25.86	26.28	46.00	-19.72	QP
6	922,516	28.19	4.18	26.60	23.52	29.29	46.00	-16.71	OP



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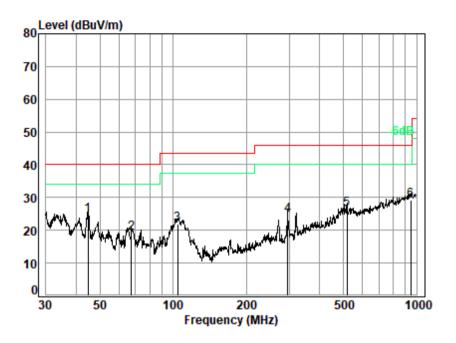


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Test Mode: 14; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04719AT

Test Mode: 14

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq Factor		Loss Factor		Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	44.743	14.30	0.82	27.75	37.17	24.54	40.00	-15.46	QP
2	67.202	10.79	1.00	27.68	35.04	19.15	40.00	-20.85	QP
3	104.536	12.21	1.25	27.57	35.99	21.88	43.50	-21.62	QP
4	295.147	17.45	2.18	26.77	31.64	24.50	46.00	-21.50	QP
5	517.248	23.31	2.98	27.63	27.74	26.40	46.00	-19.60	QP
6	945.440	28.26	4.24	26.44	23.23	29.29	46.00	-16.71	OP



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## 7.4 Radiated Spurious Emissions Above 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

### 7.4.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 21.6 °C Humidity: 60.4 % RH

### 7.4.2 Test Mode Description

7.4.2 TESLIV	4.2 Test Mode Description									
Pre-scan / Final test	Mode Code	Description								
Pre-scan	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode								
Pre-scan	14	TX mode (2.4G SDR_1.4MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Pre-scan	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode								
Pre-scan	16	TX mode (2.4G SDR_3MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Pre-scan	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode								
Pre-scan	18	TX mode (2.4G SDR_5MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Pre-scan	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode								
Pre-scan	20	TX mode (2.4G SDR_10MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Pre-scan	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode								
Pre-scan	22	TX mode (2.4G SDR_20MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode								
Pre-scan	24	TX mode (2.4G SDR_40MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								
Pre-scan	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode								
Pre-scan	26	TX mode (2.4G SDR_60MHz) + Charging_Keep the EUT in transmitting mode and charged by adapter								



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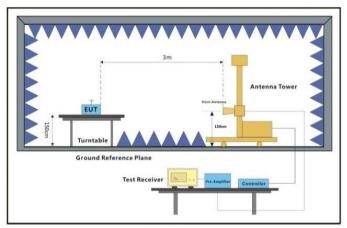


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### 7.4.3 Test Setup Diagram



Above 1GHz



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#### 7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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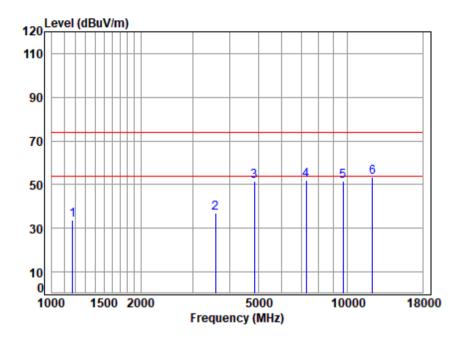


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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2422.5 TX RSE

: 2.4G SDR 40M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	7.17	25.35	54.70	56.09	33.91	74.00	-40.09	peak
2	3587.818	7.76	29.88	55.35	54.72	37.01	74.00	-36.99	Peak
3	4845.000	8.94	32.08	56.19	66.72	51.55	74.00	-22.45	peak
4	7267.500	11.10	36.63	56.49	60.67	51.91	74.00	-22.09	peak
5	9690.000	12.61	38.70	54.38	54.66	51.59	74.00	-22.41	peak
6	pp12184.580	14.48	39.87	53.93	52.82	53.24	74.00	-20.76	Peak



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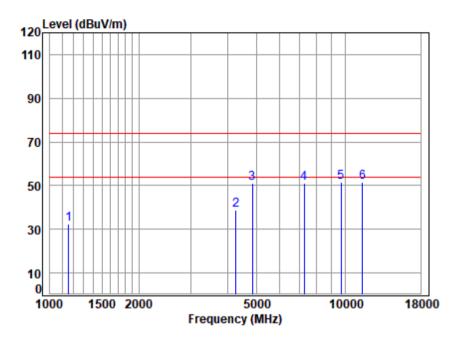


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Test Mode: 23; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No

: 04719AT Mode : 2422.5 TX RSE

: 2.4G SDR 40M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	4455 403	7 45	25 20	E4 70	F4 6F	22.40	74.00	44 54	
1	1155.483	/.15	25.39	54.70	54.65	32.49	74.00	-41.51	реак
2	4267.237	8.47	31.17	55.79	55.02	38.87	74.00	-35.13	peak
3	4845.000	8.94	32.08	56.19	66.05	50.88	74.00	-23.12	peak
4	7267.500	11.10	36.63	56.49	59.86	51.10	74.00	-22.90	peak
5	pp 9690.000	12.61	38.70	54.38	54.85	51.78	74.00	-22.22	peak
6	11433.910	14.14	39.67	53.63	51.36	51.54	74.00	-22.46	Peak



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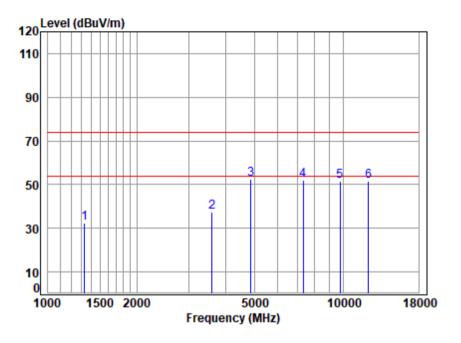


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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2437.5 TX RSE

: 2.4G SDR 40M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	1331.288	7.17	25.14	54.70	54.97	32.58	74.00	-41.42	peak
2	3598.203	7.76	29.90	55.36	55.21	37.51	74.00	-36.49	Peak
3	pp 4875.000	8.98	32.15	56.21	67.57	52.49	74.00	-21.51	peak
4	7312.500	11.11	36.72	56.45	60.52	51.90	74.00	-22.10	peak
5	9750.000	12.81	38.60	54.32	54.52	51.61	74.00	-22.39	peak
6	12184.580	14.48	39.87	53.93	51.03	51.45	74.00	-22.55	Peak



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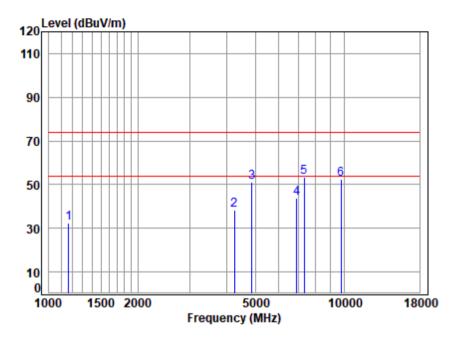


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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel: middle



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2437.5 TX RSE

: 2.4G SDR 40M

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	7.16	25.37	54.70	54.50	32.33	74.00	-41.67	peak
2	4242.641	8.48	31.06	55.77	54.49	38.26	74.00	-35.74	peak
3	4875.000	8.98	32.15	56.21	66.23	51.15	74.00	-22.85	peak
4	6914.763	10.94	36.17	56.72	53.28	43.67	74.00	-30.33	peak
	7312.500								-
6	9750.000	12.81	38.60	54.32	55.24	52.33	74.00	-21.67	peak



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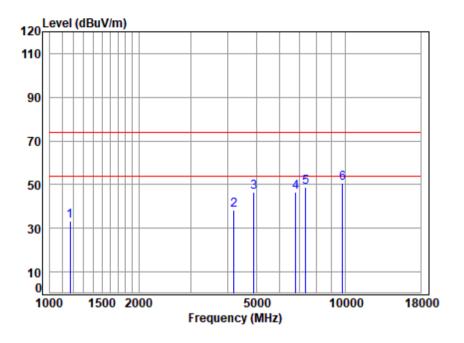


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Test Mode: 23; Polarity: Horizontal; Modulation: GFSK; Channel: High



Condition: 3m HORIZONTAL

Job No : 04719AT

Mode : 2452.5 TX RSE

: 2.4G SDR 40M

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1172.303	7.17	25.36	54.70	55.50	33.33	74.00	-40.67	peak
2		4206.011	8.51	30.84	55.74	54.92	38.53	74.00	-35.47	peak
3		4905.000	9.01	32.20	56.23	61.77	46.75	74.00	-27.25	peak
4		6795.879	10.97	35.88	56.74	56.31	46.42	74.00	-27.58	peak
5		7357.500	11.16	36.78	56.41	57.27	48.80	74.00	-25.20	peak
6	pp	9810.000	12.95	38.44	54.27	53.61	50.73	74.00	-23.27	peak



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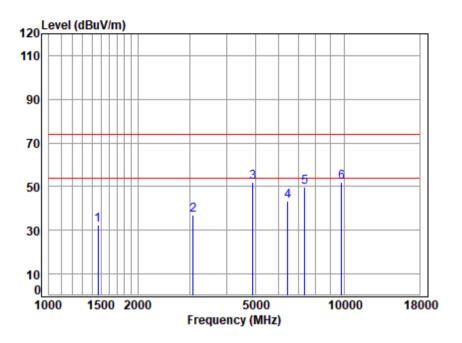


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Test Mode: 23; Polarity: Vertical; Modulation: GFSK; Channel: High



Condition: 3m VERTICAL

Job No : 04719AT

Mode : 2452.5 TX RSE

: 2.4G SDR 40M

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1468.761	7.22	25.02	54.70	54.73	32.27	74.00	-41.73	Peak
2	3078.229	7.81	29.14	55.05	55.14	37.04	74.00	-36.96	Peak
3 p	p 4905.000	9.01	32.20	56.23	67.05	52.03	74.00	-21.97	peak
4	6432.732	10.56	34.80	56.81	54.65	43.20	74.00	-30.80	Peak
5	7357.500	11.16	36.78	56.41	58.15	49.68	74.00	-24.32	peak
6	9810.000	12.95	38.44	54.27	54.82	51.94	74.00	-22.06	peak



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### 7.5 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.1

#### Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850	1 for frequency hopping systems and digital modulation		

### 7.5.1 E.U.T. Operation

Operating Environment:

21.4 °C Temperature: Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

11012 1 001 me do 2000 i pue i								
Pre-scan / Final test	Mode Code	Description						
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode						
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode						
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode						
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode						
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode						
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode						
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode						



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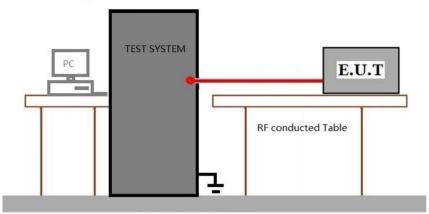


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### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

### 7.6.1 E.U.T. Operation

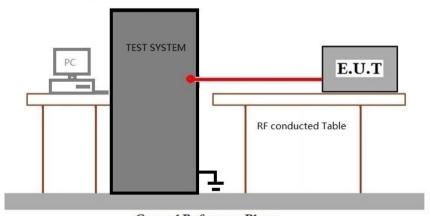
Operating Environment:

Temperature: 21.4 °C Atmospheric Pressure: 1020 mbar Humidity: 46.8 % RH

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode					
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode					
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode					
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode					
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode					
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode					
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode					

#### 7.6.3 Test Setup Diagram



Ground Reference Plane

### 7.6.4 Measurement Procedure and Data

### Please Refer to Appendix for Details



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### 7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

### 7.7.1 E.U.T. Operation

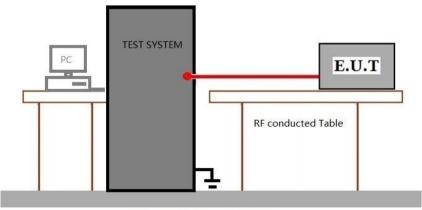
Operating Environment:

Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

The root mode becompain							
Pre-scan / Final test	Mode Code	Description					
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode					
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode					
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode					
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode					
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode					
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode					
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode					

#### 7.7.3 Test Setup Diagram



Ground Reference Plane

### 7.7.4 Measurement Procedure and Data

### Please Refer to Appendix for Details



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## 7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

### 7 0 2 Took Made Deceription

7.8.2 Test Mode Description							
Pre-scan / Mode Final test Code		Description					
i illai test	Code						
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode					
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode					
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode					
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode					
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode					
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode					
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode					



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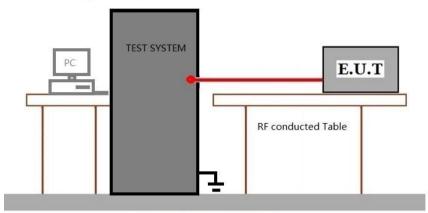


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#### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	TX mode (2.4G SDR_1.4MHz)_Keep the EUT in transmitting mode
Final test	15	TX mode (2.4G SDR_3MHz)_Keep the EUT in transmitting mode
Final test	17	TX mode (2.4G SDR_5MHz)_Keep the EUT in transmitting mode
Final test	19	TX mode (2.4G SDR_10MHz)_Keep the EUT in transmitting mode
Final test	21	TX mode (2.4G SDR_20MHz)_Keep the EUT in transmitting mode
Final test	23	TX mode (2.4G SDR_40MHz)_Keep the EUT in transmitting mode
Final test	25	TX mode (2.4G SDR_60MHz)_Keep the EUT in transmitting mode



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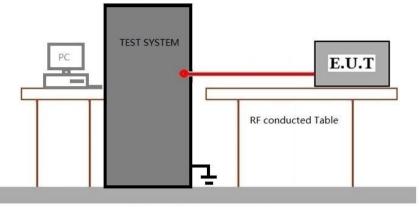
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#### 7.9.3 Test Setup Diagram



Ground Reference Plane

#### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## **Test Setup Photo**

Refer to Setup Photo for SZCR2412004719AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2412004719AT



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# 10 Appendix

For ANT 4& 5:

1. Duty Cycle

1.1 Test Result

#### 1.1.1 Ant4

Ant4									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2403.5	100.000	100.000	100.00	0.00	0.00		
1.4M	MIMO	2437.5	100.000	100.000	100.00	0.00	0.00		
		2469.12	100.000	100.000	100.00	0.00	0.00		
		2405.5	100.000	100.000	100.00	0.00	0.00		
3M	MIMO	2438.5	100.000	100.000	100.00	0.00	0.00		
		2468.2	100.000	100.000	100.00	0.00	0.00		
		2404.5	100.000	100.000	100.00	0.00	0.00		
5M	MIMO	2439.5	100.000	100.000	100.00	0.00	0.00		
		2469.5	100.000	100.000	100.00	0.00	0.00		
	MIMO	2407.5	100.000	100.000	100.00	0.00	0.00		
10M		2437.5	100.000	100.000	100.00	0.00	0.00		
		2467.5	100.000	100.000	100.00	0.00	0.00		
	MIMO	2412.5	100.000	100.000	100.00	0.00	0.00		
20M		2437.5	100.000	100.000	100.00	0.00	0.00		
		2462.5	100.000	100.000	100.00	0.00	0.00		
		2422.5	100.000	100.000	100.00	0.00	0.00		
40M	MIMO	2437.5	100.000	100.000	100.00	0.00	0.00		
		2452.5	100.000	100.000	100.00	0.00	0.00		
		2432.5	100.000	100.000	100.00	0.00	0.00		
60M	MIMO	2437.5	100.000	100.000	100.00	0.00	0.00		
		2442.5	100.000	100.000	100.00	0.00	0.00		



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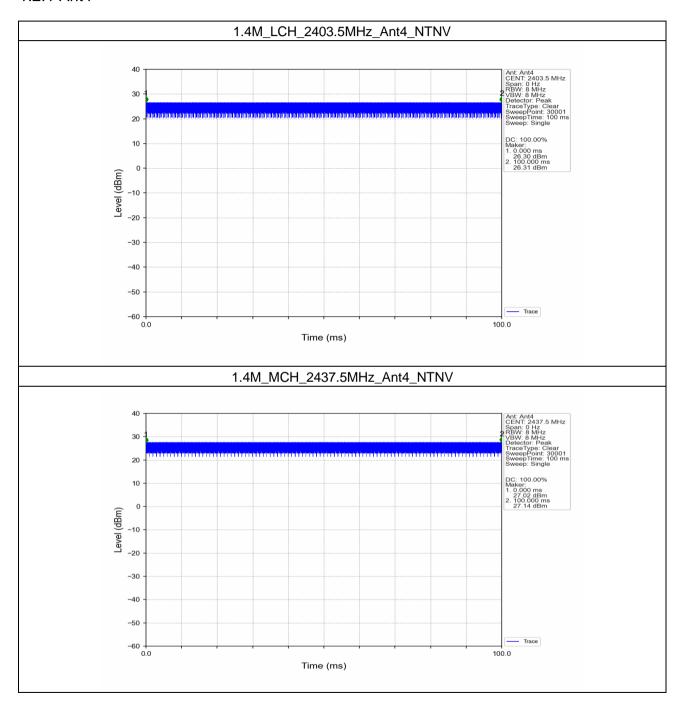
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## 1.2 Test Graph

### 1.2.1 Ant4





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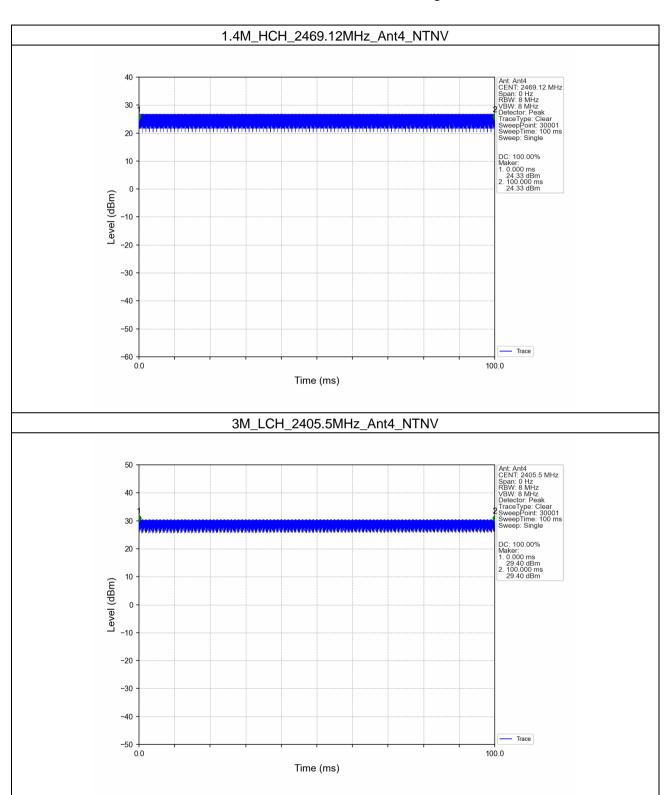
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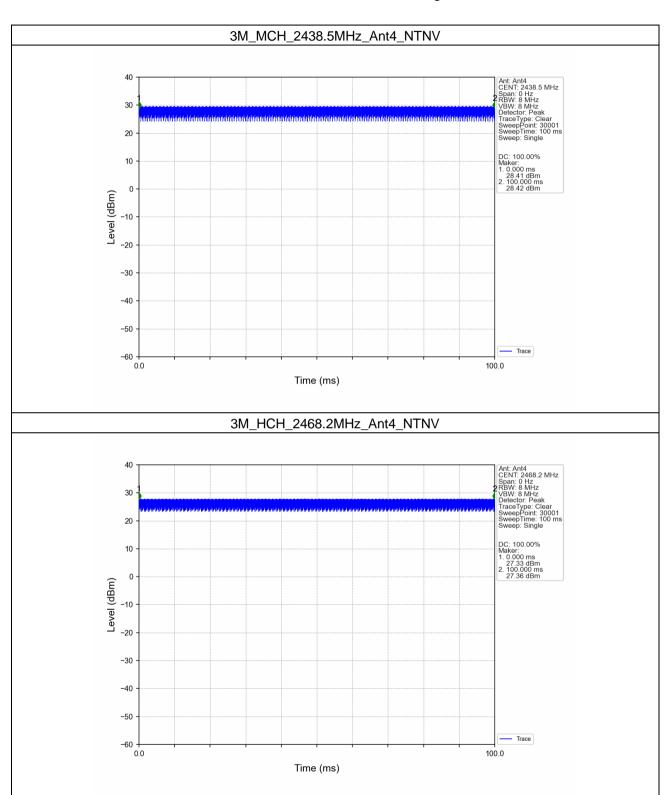
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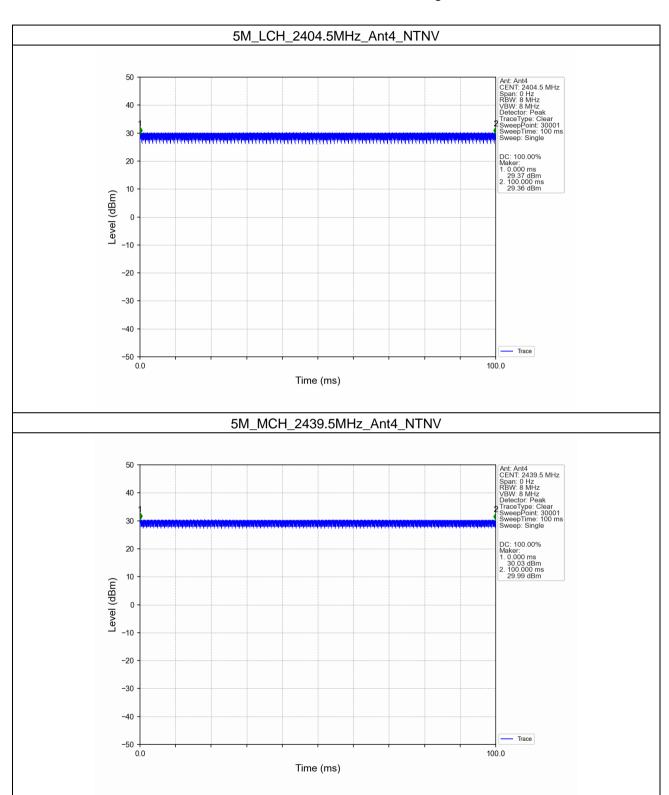
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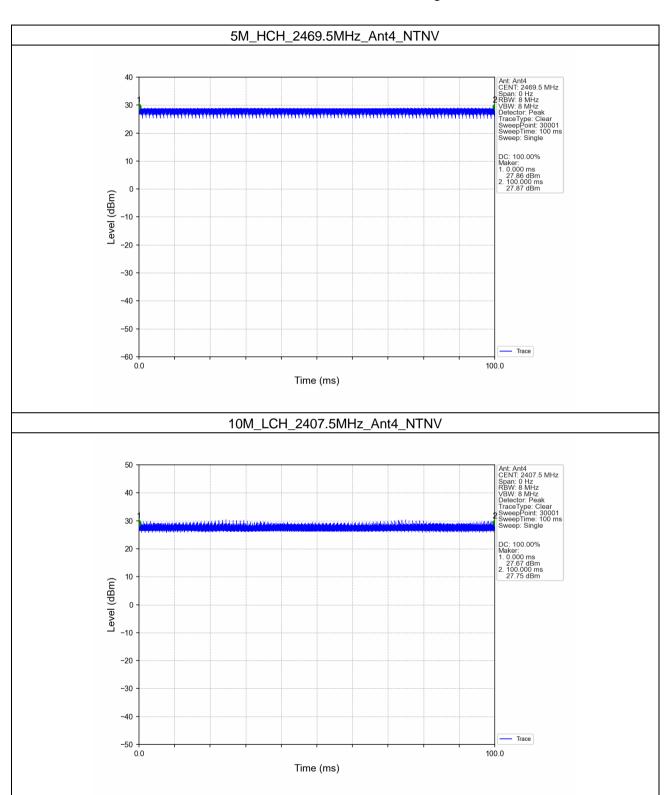
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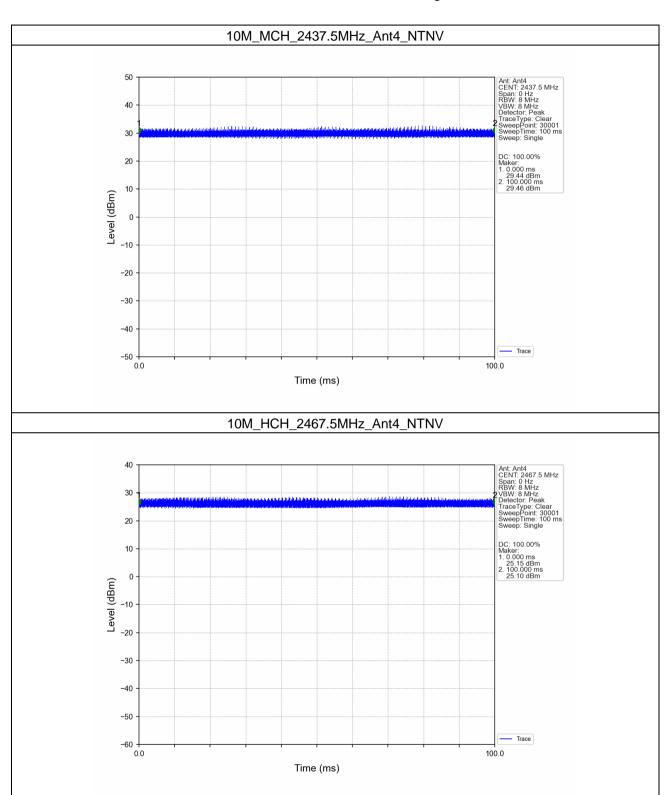
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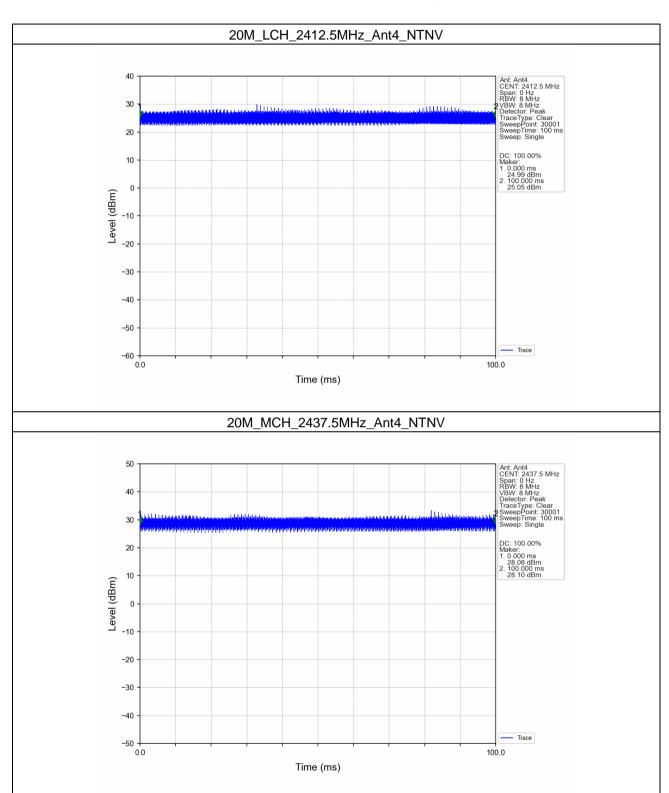
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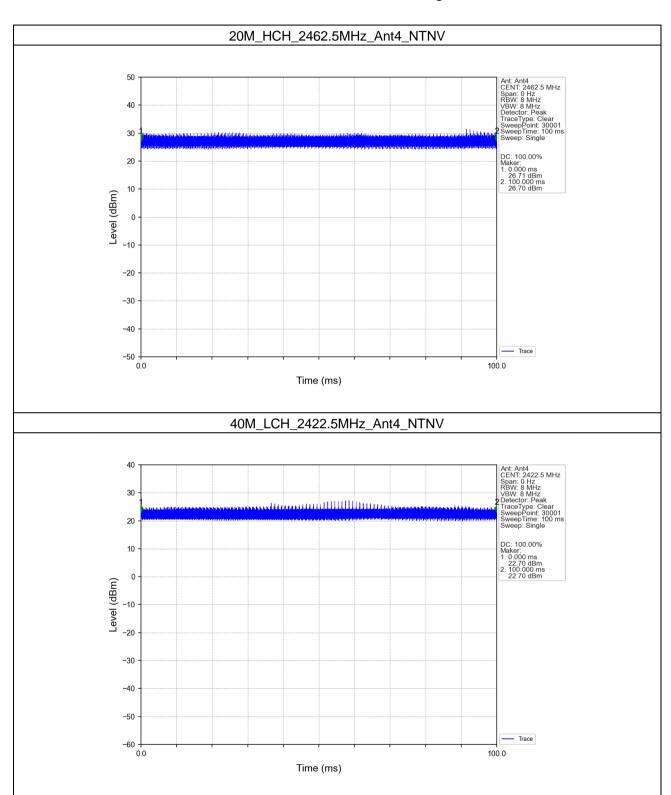
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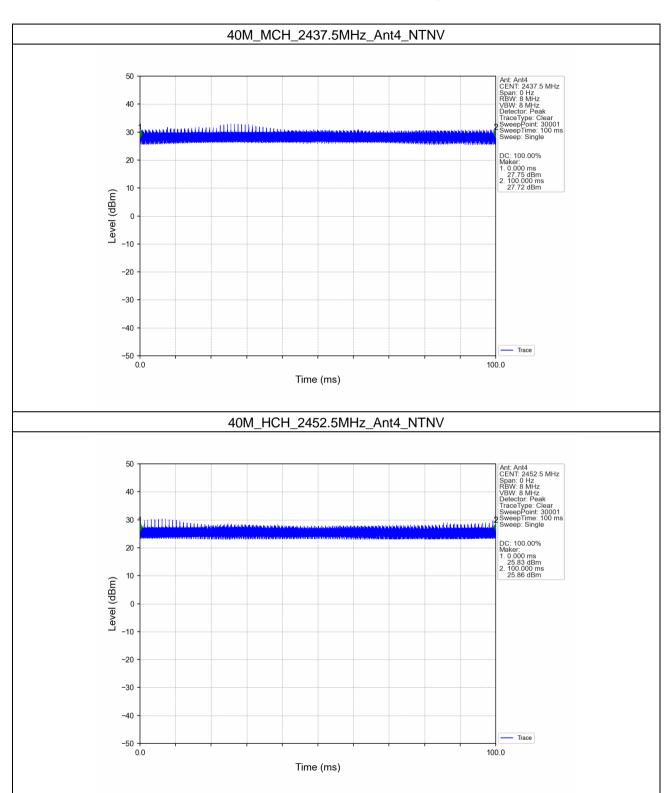
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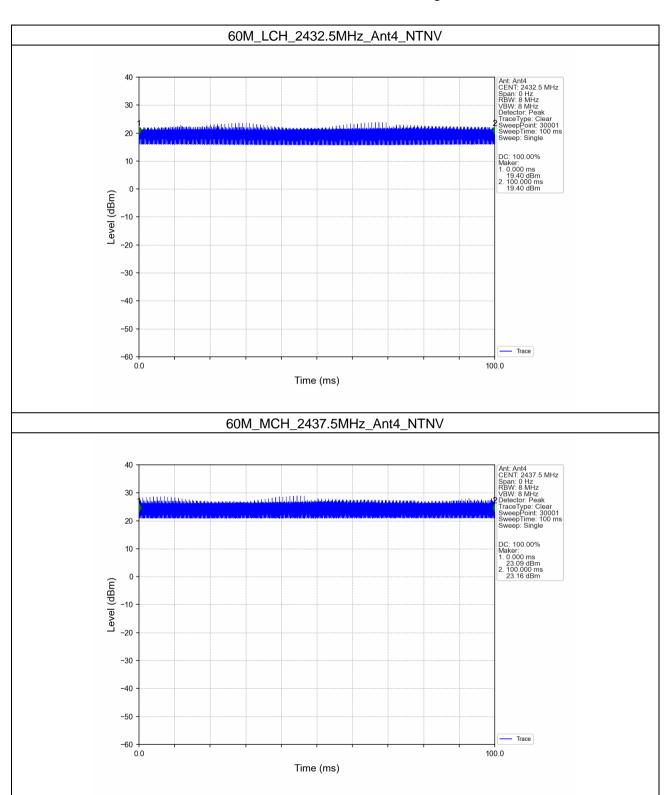
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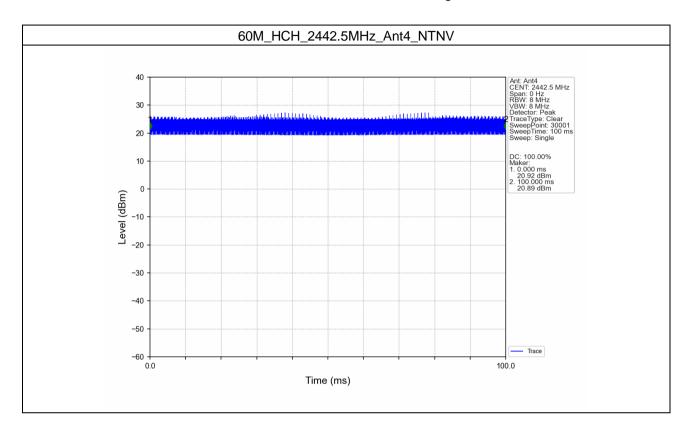
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#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Mondiat
				Result	Limit	Verdict
1.4M	MIMO	2403.5	4	1.387	/	Pass
		2437.5	4	1.386	/	Pass
		2469.12	4	1.380	/	Pass
ЗМ	MIMO	2405.5	4	2.324	/	Pass
		2438.5	4	2.323	/	Pass
		2468.2	4	2.320	/	Pass
5M	MIMO	2404.5	4	5.185	/	Pass
		2439.5	4	4.513	/	Pass
		2469.5	4	4.518	/	Pass
10M	MIMO	2407.5	4	9.105	/	Pass
		2437.5	4	9.104	/	Pass
		2467.5	4	9.086	/	Pass
20M	MIMO	2412.5	4	17.783	/	Pass
		2437.5	4	17.854	/	Pass
		2462.5	4	17.862	/	Pass
40M	MIMO	2422.5	4	30.706	/	Pass
		2437.5	4	31.597	/	Pass
		2452.5	4	30.676	/	Pass
60M	MIMO	2432.5	4	50.028	/	Pass
		2437.5	4	50.437	/	Pass
		2442.5	4	50.267	/	Pass



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#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		\/ordiot
				Result	Limit	Verdict
1.4M	MIMO	2403.5	4	1.117	>=0.5	Pass
		2437.5	4	1.119	>=0.5	Pass
		2469.12	4	1.117	>=0.5	Pass
ЗМ	MIMO	2405.5	4	2.209	>=0.5	Pass
		2438.5	4	2.230	>=0.5	Pass
		2468.2	4	2.217	>=0.5	Pass
	MIMO	2404.5	4	4.410	>=0.5	Pass
5M		2439.5	4	4.374	>=0.5	Pass
		2469.5	4	4.390	>=0.5	Pass
10M	MIMO	2407.5	4	9.047	>=0.5	Pass
		2437.5	4	9.045	>=0.5	Pass
		2467.5	4	9.048	>=0.5	Pass
20M	MIMO	2412.5	4	17.008	>=0.5	Pass
		2437.5	4	17.300	>=0.5	Pass
		2462.5	4	17.483	>=0.5	Pass
40M	MIMO	2422.5	4	20.082	>=0.5	Pass
		2437.5	4	22.760	>=0.5	Pass
		2452.5	4	20.256	>=0.5	Pass
60M	MIMO	2432.5	4	35.929	>=0.5	Pass
		2437.5	4	35.666	>=0.5	Pass
		2442.5	4	38.344	>=0.5	Pass



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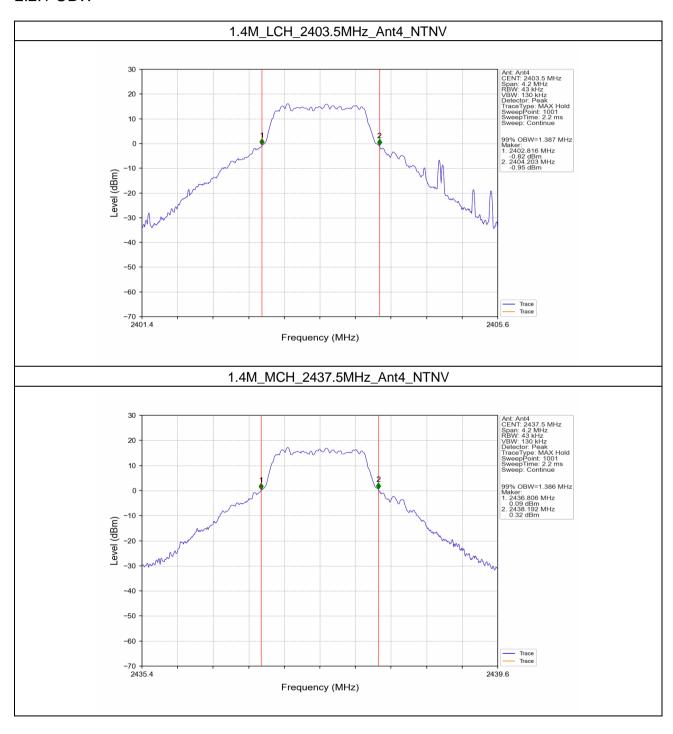
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#### 2.2 Test Graph

#### 2.2.1 OBW





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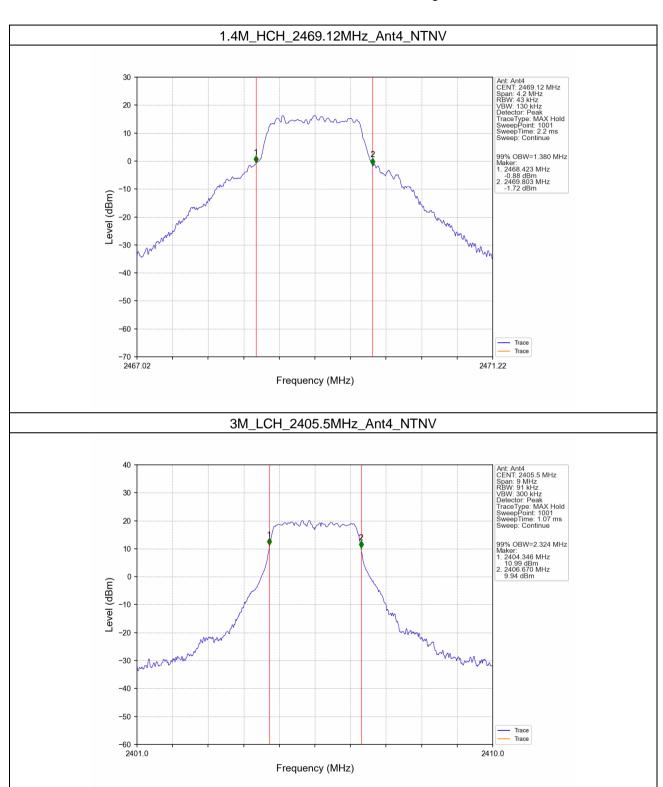
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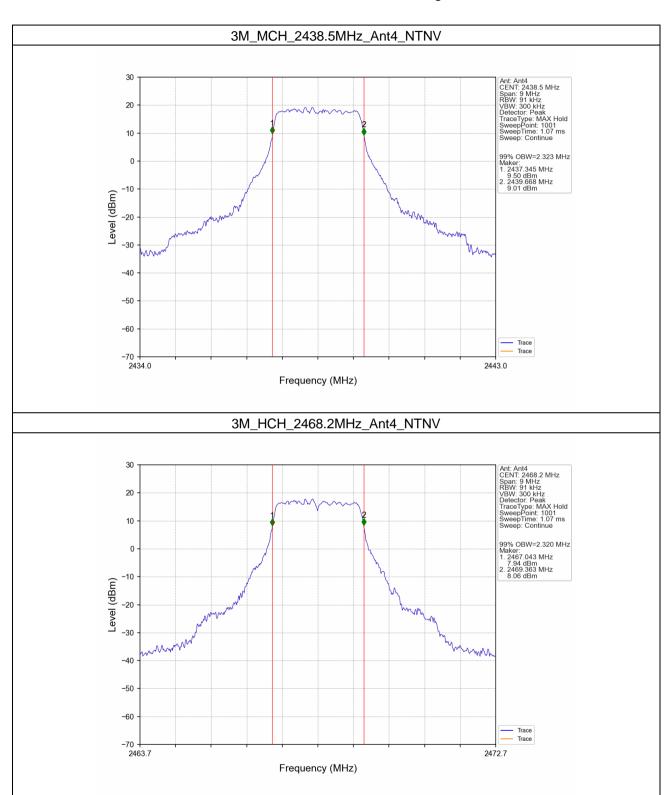
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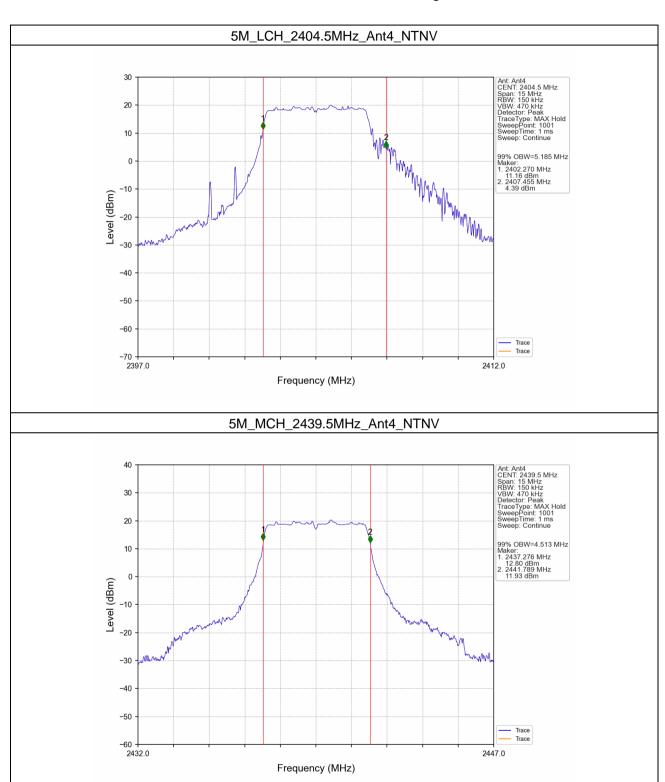
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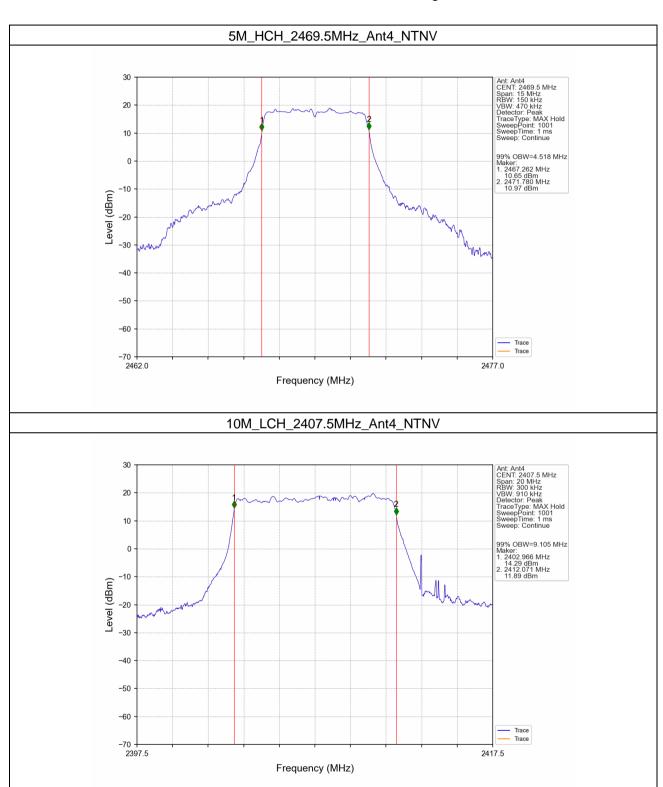
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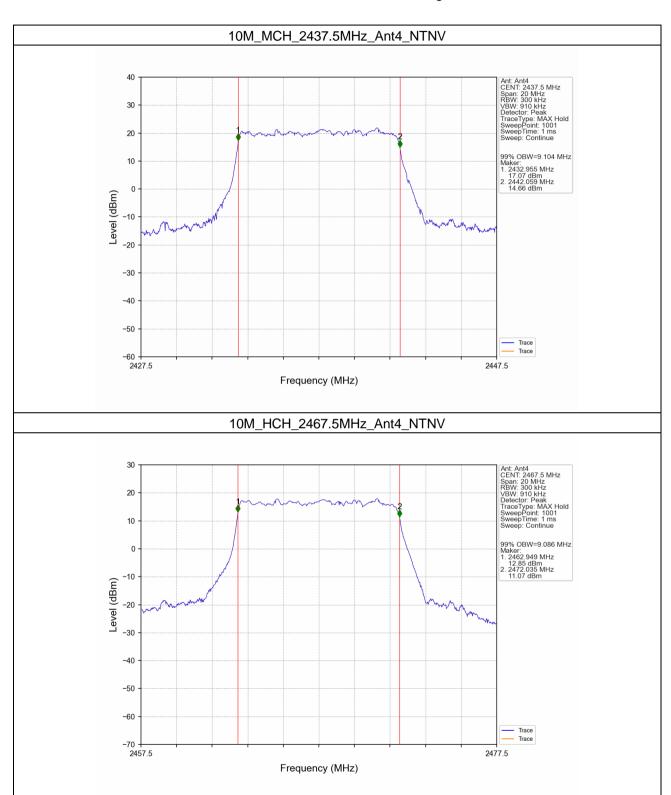
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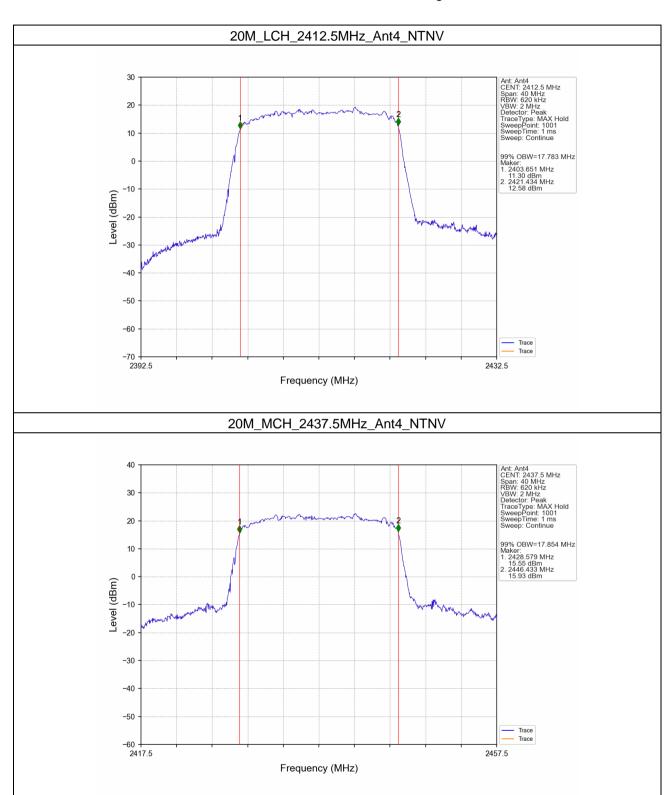
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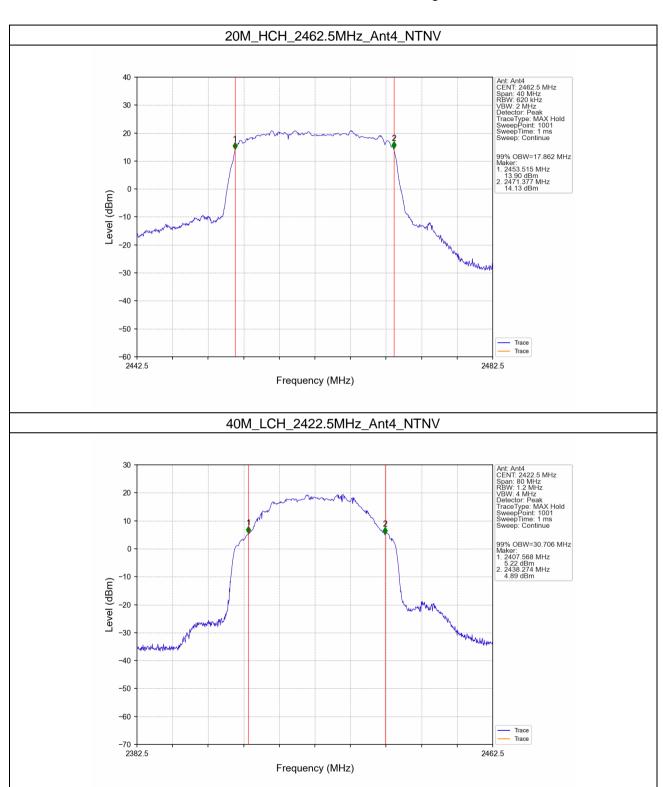
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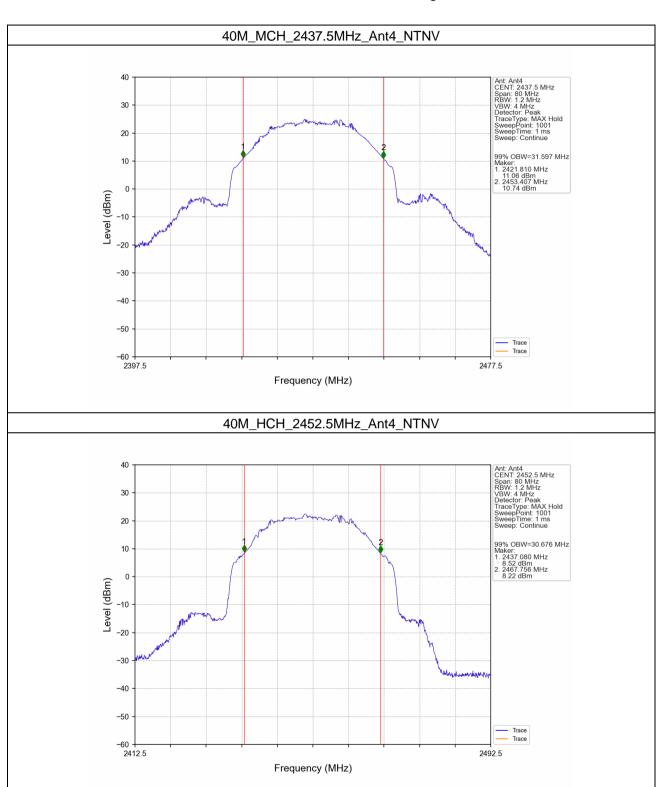
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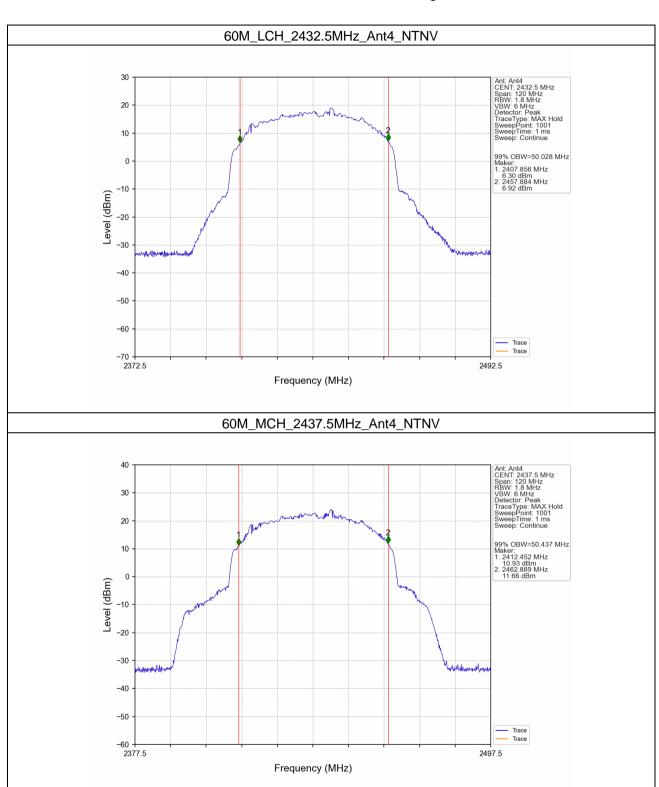
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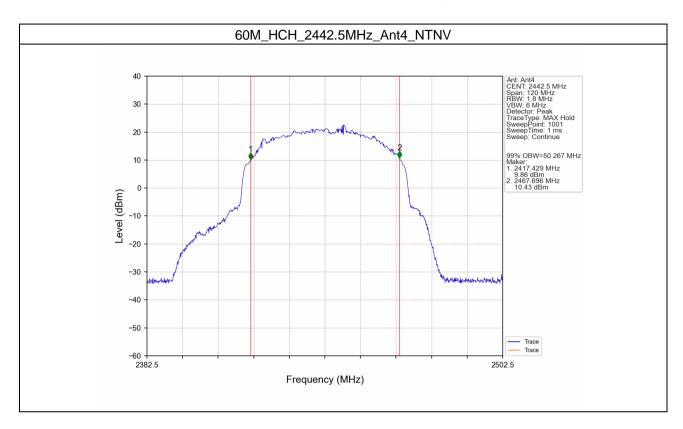
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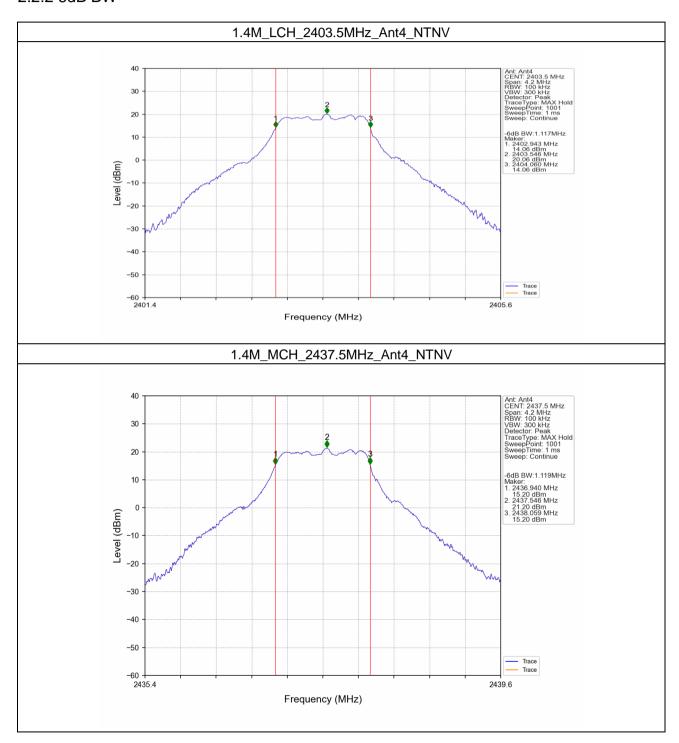


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#### 2.2.2 6dB BW





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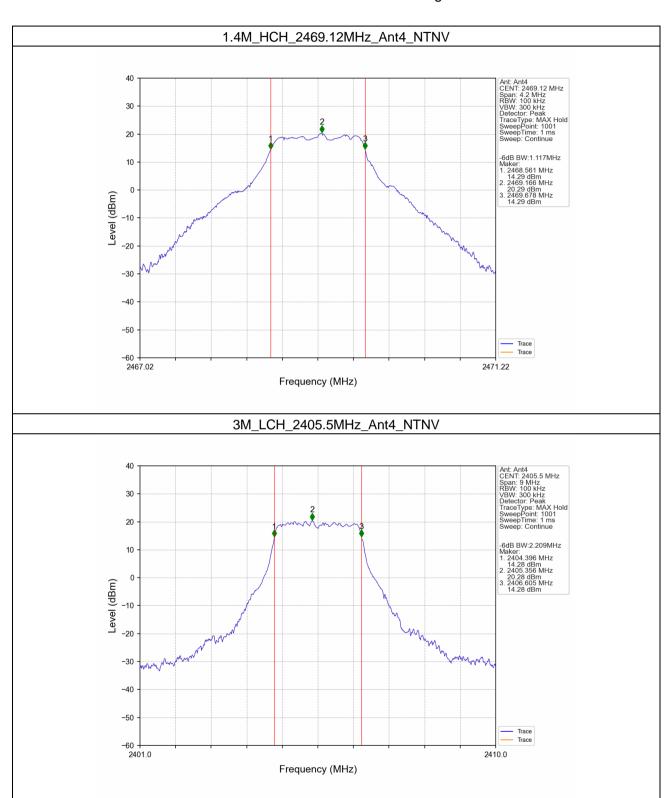
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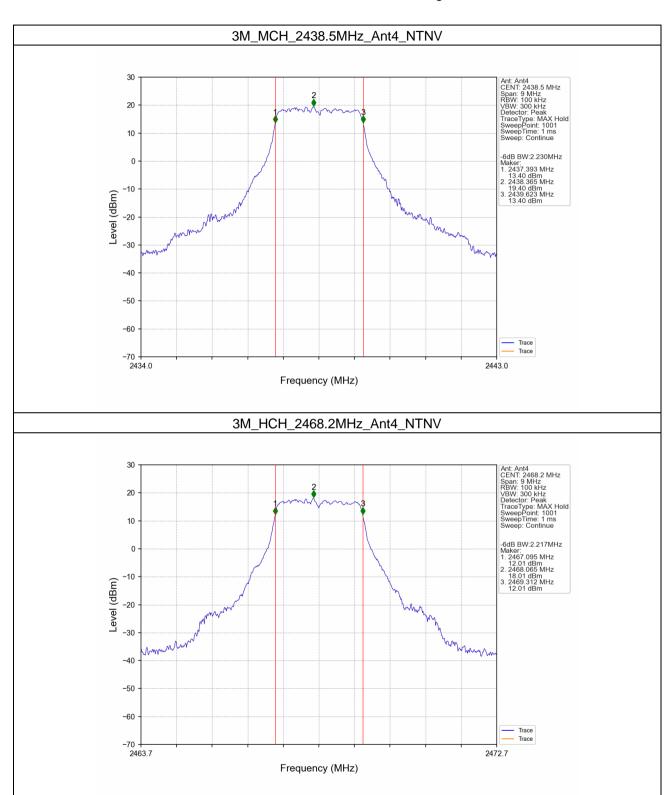
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