

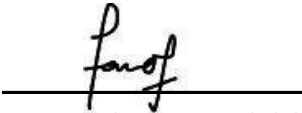
 MOTOROLA SOLUTIONS	    CERTIFICATE 2518.08 SAMM 825																														
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.D																														
<table><tr><td>Date/s Tested</td><td>: 24-September-2024 - 16-January-2025</td></tr><tr><td>Report Issue Date</td><td>: 14-February-2025</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: Tang Chee Leong</td></tr><tr><td>Product Type</td><td>: Body Worn Camera</td></tr><tr><td>Product Marketing Name (PMN)</td><td>: V200</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: B20CJM2BE2AN</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Max RF Output Power</td><td>: GFSK - 10 mWatts Pi/4 DQPSK & 8DPSK - 5.62 mWatts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>IC Registrations</td><td>: MY0001</td></tr><tr><td>Firmware Version Identification Number (FVIN)</td><td>: (S/N: 663EAR0072, 663EAS0005) - PSS fs2-ARMV7A_PTF V24.4-ptf- V200-1.8-1-g501bb5026c (S/N: 663EAS0005) - PSS fs2-ARMV7A_PTF V25.1.0.0-4- g62e56dc448</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(2.4GHz BT) FCC 47CFR Part 15C ISED RSS 247 Issue 3, August 2023</td><td>PASS</td></tr></table>		Date/s Tested	: 24-September-2024 - 16-January-2025	Report Issue Date	: 14-February-2025	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: Tang Chee Leong	Product Type	: Body Worn Camera	Product Marketing Name (PMN)	: V200	Hardware Version Identification Number (HVIN)	: B20CJM2BE2AN	Frequency Band	: 2.402 - 2.480 GHz	Max RF Output Power	: GFSK - 10 mWatts Pi/4 DQPSK & 8DPSK - 5.62 mWatts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	IC Registrations	: MY0001	Firmware Version Identification Number (FVIN)	: (S/N: 663EAR0072, 663EAS0005) - PSS fs2-ARMV7A_PTF V24.4-ptf- V200-1.8-1-g501bb5026c (S/N: 663EAS0005) - PSS fs2-ARMV7A_PTF V25.1.0.0-4- g62e56dc448	(2.4GHz BT) FCC 47CFR Part 15C ISED RSS 247 Issue 3, August 2023	PASS
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Prepared By:  Siti Nurhidayati Binti Abdul Halim Test Personnel	Approved Signatory:  Vincent Foong Chuen Kit Responsible Engineer																														

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	20-January-2025	Hidayati
Rev. B	Updated Approved Signatory Name	05-February-2025	Hidayati
Rev. C	Update Model Number on Radiated Emission within Restricted Bands data	14-February-2025	Hidayati
Rev. D	Correction to HVIN	17-March-2026	Vincent

1.0. General Information

EUT Description:

Technologies	2.4GHz BT
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK, Pi/4 DQPSK,8DPSK
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	CHIP

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
BATTERY PACK,BATTERY PACK, BATT LIION 2500T	MOTOROLA	PMNN4578A
CABLE, DATA, USB-A TO USB-C, 1M	MOTOROLA	PMKN4294A

Channel number and frequency information:

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474

13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C
 KDB 558074 D01 15.247 Meas Guidance v05
 ANSI C63.10-2013

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0 Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (b)(1)	RSS-247 5.4(b)	Conducted RF Output Power (Peak)	Pass	Highest output power: 9.050 dBm (8.035 mW)	663EAR0072	Hidayati
15.247 (a)(1)	RSS-247 5.1(a) RSS-247 5.1(b)	(1) 20dB Channel Bandwidth (2) Channel Separation	Pass	GFSK – 936KF1D Pi/4 DQPSK – 1M22G1D 8DPSK - 1M22G1D	663EAR0072	Hidayati
15.247(a)(1)(iii)	RSS-247 5.1(d)	Number of hopping Frequency used	Pass	Meet the limit requirement.	663EAR0072	Hidayati
15.247(a)(1)(iii)	RSS-247 5.1(d)	Dwell time on each channel	Pass	Meet the limit requirement.	663EAR0072	Hidayati
15.247 (d)	RSS-247 5.5	Band Edge Conducted Spurious Emission	Pass	Worst case emission: -44.28 dB	663EAR0072	Hidayati
15.247 (d)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -47.458 dBm	663EAR0072	Hidayati

15.205, 15.209, 15.247 (d)	RSS-247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 41.6572 dB μ V/m (Margin: 12.3428 dB μ V/m) RSE: 26.5765 dB μ V/m (Margin: 19.4235 dB μ V/m)	663EAS0005 & 952EAY0164	Nazrin, Fuad & Aiman
15.207	RSS-Gen 8.8	AC Powerline Conducted Emission	Pass	Meet the limit requirement.	952EAY0164	Shidee
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end- user	NA	NA

3.0 Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) ($\pm$ dB)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.48
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	5.88
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.84
	18GHz ~ 40GHz	6.02
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

4.0 Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.1.12_R1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	4-Jul-24	4-Jul-25
POWER SUPPLY	6652A	3640A02967	4-Oct-24	4-Oct-25
SPECTRUM ANALYZER	E4440A	MY46185415	5-Jan-24	5-Jan-25
PULSE POWER METER	ML2495A	1845014	20-Aug-24	20-Aug-25
PULSE SENSOR	MA2411B	1726287	20-Aug-24	20-Aug-25

Radiated Emission Station (SW Version: EMC FCC RE v1.6.5)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMI TEST RECEIVER	ESIB40	100307	23-Oct-24	23-Oct-25
3m Semi-anechoic Chamber	NA	888032	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	T-200-S	N/A	No Cal. Req'd	No Cal. Req'd
PROGRAMMING CONTROLLER	MF-7802BS	N/A	No Cal. Req'd	No Cal. Req'd
POWER SUPPLY	6674A	3126A00133	13-Mar-24	13-Mar-25
SIGNAL ANALYZER	FSV40	101432	09-Aug-24	08-Aug-25
DATA LOGGER	SDL500	A.016800	26-Jun-24	26-Jun-25
BILOG ANTENNA	CBL6112D	55546	05-Jun-24	05-Jun-25
BILOG ANTENNA	CBL 6112B	2964	08-Oct-24	08-Oct-25
DRG HORN FREQ.	SAS-571	1027	01-Jul-24	01-Jul-25
DRG HORN FREQ.	SAS-571	720	18-Apr-23	18-Apr-25
PREAMPLIFIER	PAM-0118	427	15-Nov-24	15-Nov-25
SIGNAL GENERATOR	SMB100A	181117	06-Dec-21	06-Feb-25
LOOP ANTENNA	6502	00203479	06-Mac-24	06-Mac-25
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	13-Mar-24	13-Mar-25

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	5-Jul-2024	5-Jul-2025
V-NETWORK 2-LINE	ENV216V	101268	12-Jun-24	12-Jun-25
EMI TEST RECEIVER	ESCI	100225	8-May-2024	8-May-2025
PROGRAMMABLE AC SOURCE	61604	ABR000000926	5-Aug-2024	5-Aug-2025

5.0 Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	22.4°C, 67.9%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	22.4°C, 67.9%RH

Power Line Conducted Emission Test

☐ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

NAEUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Application Mode	0 to 78	AUTO	FHSS	AUTO	NA

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

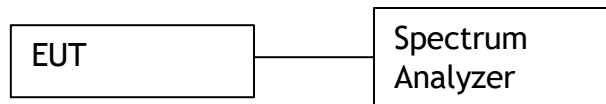
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	25°C, 54.8%RH

6.0 Transmitter Test Parameters

6.1. Conducted RF Output Power (Peak)

6.1.1. Test Setup



- Check and ensure the spectrum analyzer well calibrate.
- Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- Setting of Spectrum analyzer :
 - RBW = > 20 dB bandwidth
 - VBW = RBW
 - Detector mode = Peak
 - AMPLITUDE $\square$ Scale/Div = 10 dB
 - Trace = Max hold
 - Sweep = auto
- Measure the captured power within the band and recording the plot.
- Repeat above procedure with other different mode of operation.

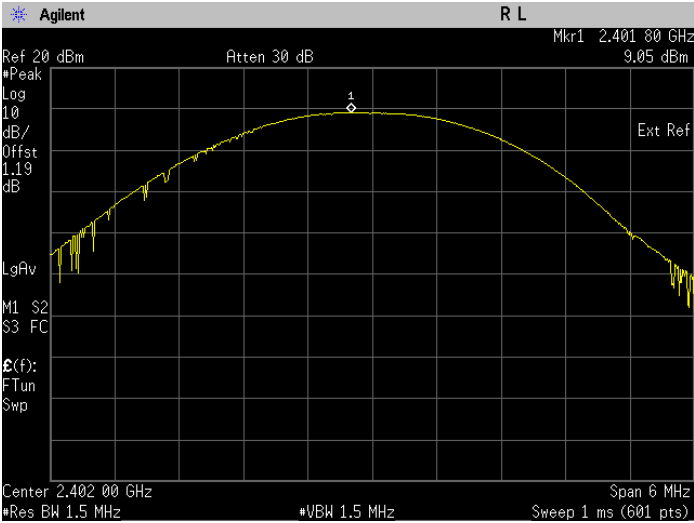
6.1.2. Test Limits:

Normal Condition (25 ° C)
$\leq 125\text{mW}$ (or 20.9dBm)

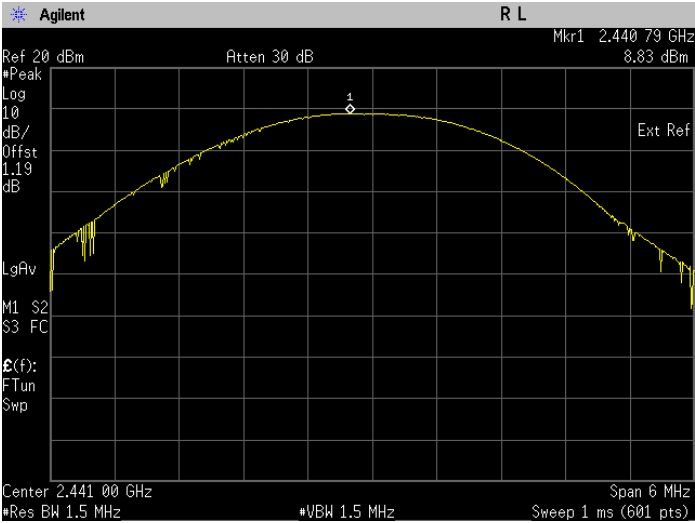
6.1.3. Test Data:

Test Conditions		Test Frequency (GHz)	Results	
Modulation	Voltage(V)		dBm	Status
GFSK	7.50	2.4020	9.050	Pass
		2.4410	8.826	Pass
		2.4800	8.826	Pass
Pi/4DQPSK	7.50	2.4020	6.135	Pass
		2.4410	6.237	Pass
		2.4800	6.264	Pass
8DPSK	7.50	2.4020	6.461	Pass
		2.4410	6.483	Pass
		2.4800	6.444	Pass

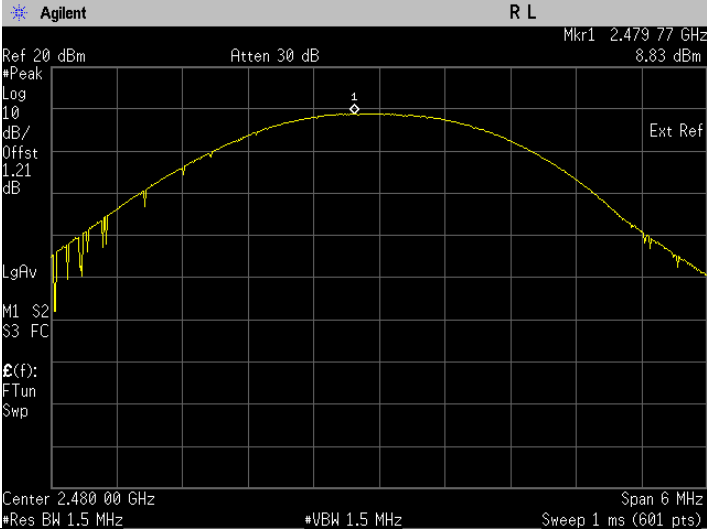
The Conducted RF Output Power test with result at low frequency, GFSK.



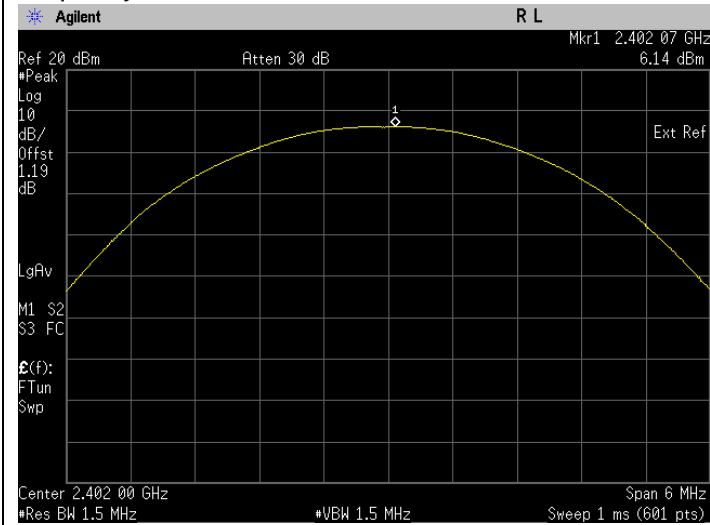
The Conducted RF Output Power test with result at mid frequency, GFSK.



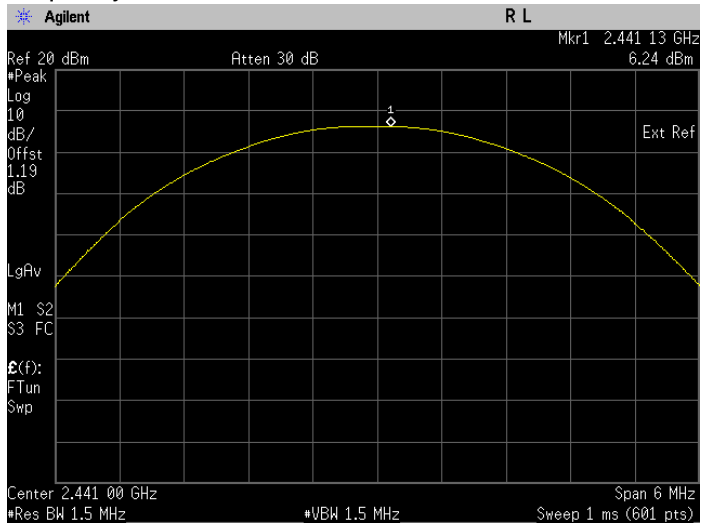
The Conducted RF Output Power test with result at high frequency, GFSK.



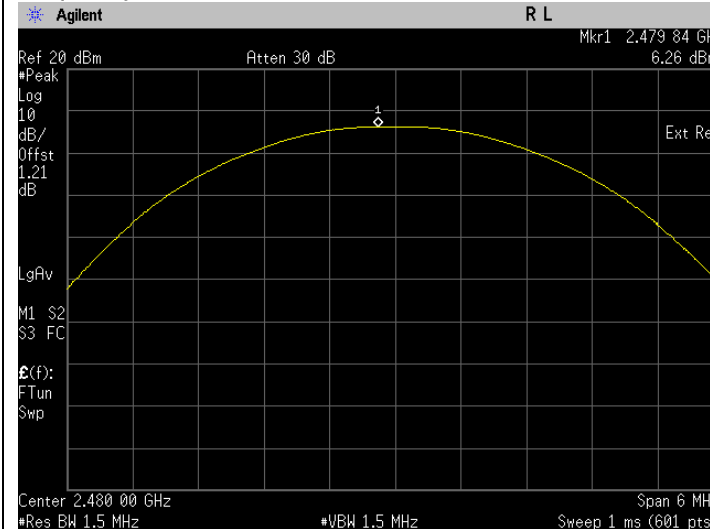
The Conducted RF Output Power test with result at low frequency, Pi/4 DQPSK.



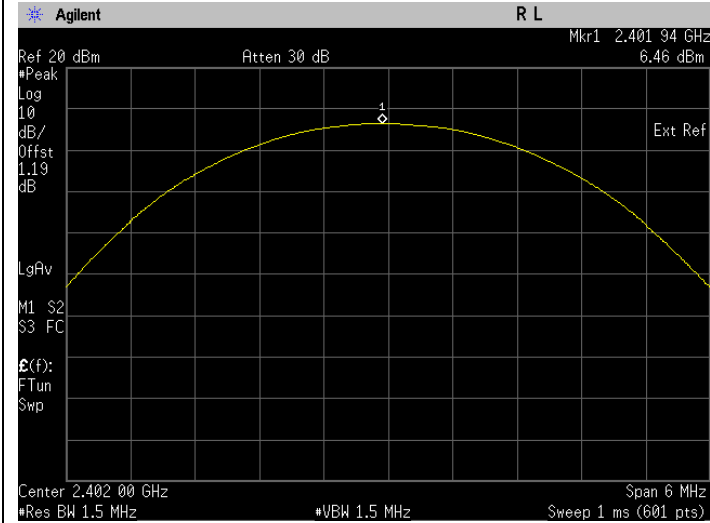
The Conducted RF Output Power test with result at mid frequency, Pi/4 DQPSK.



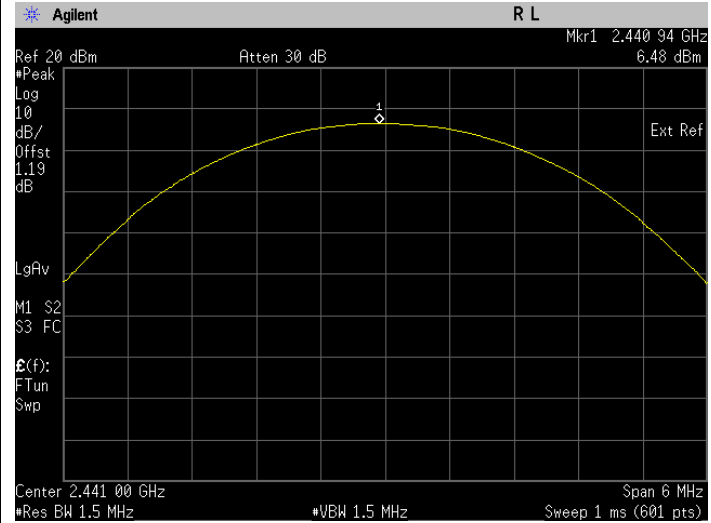
The Conducted RF Output Power test with result at high frequency, Pi/4 DQPSK.



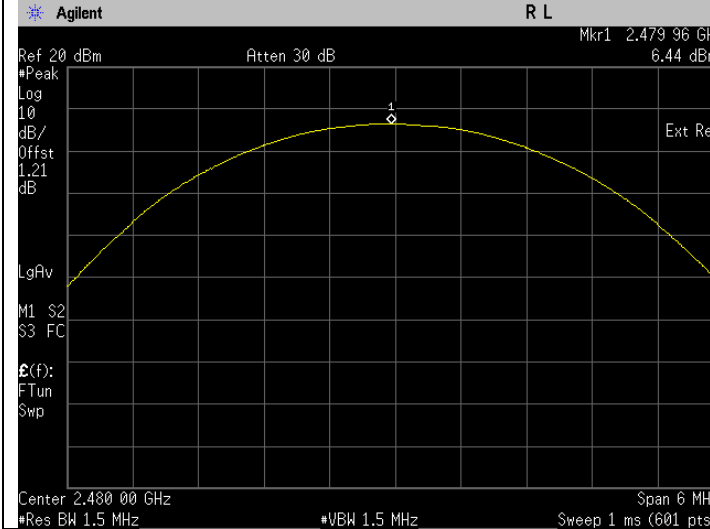
The Conducted RF Output Power test with result at low frequency, 8DPSK.



The Conducted RF Output Power test with result at mid frequency, 8DPSK.

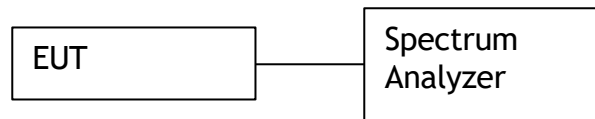


The Conducted RF Output Power test with result at high frequency, 8DPSK.



6.2. 20dB Channel Bandwidth

6.2.1. Test Setup



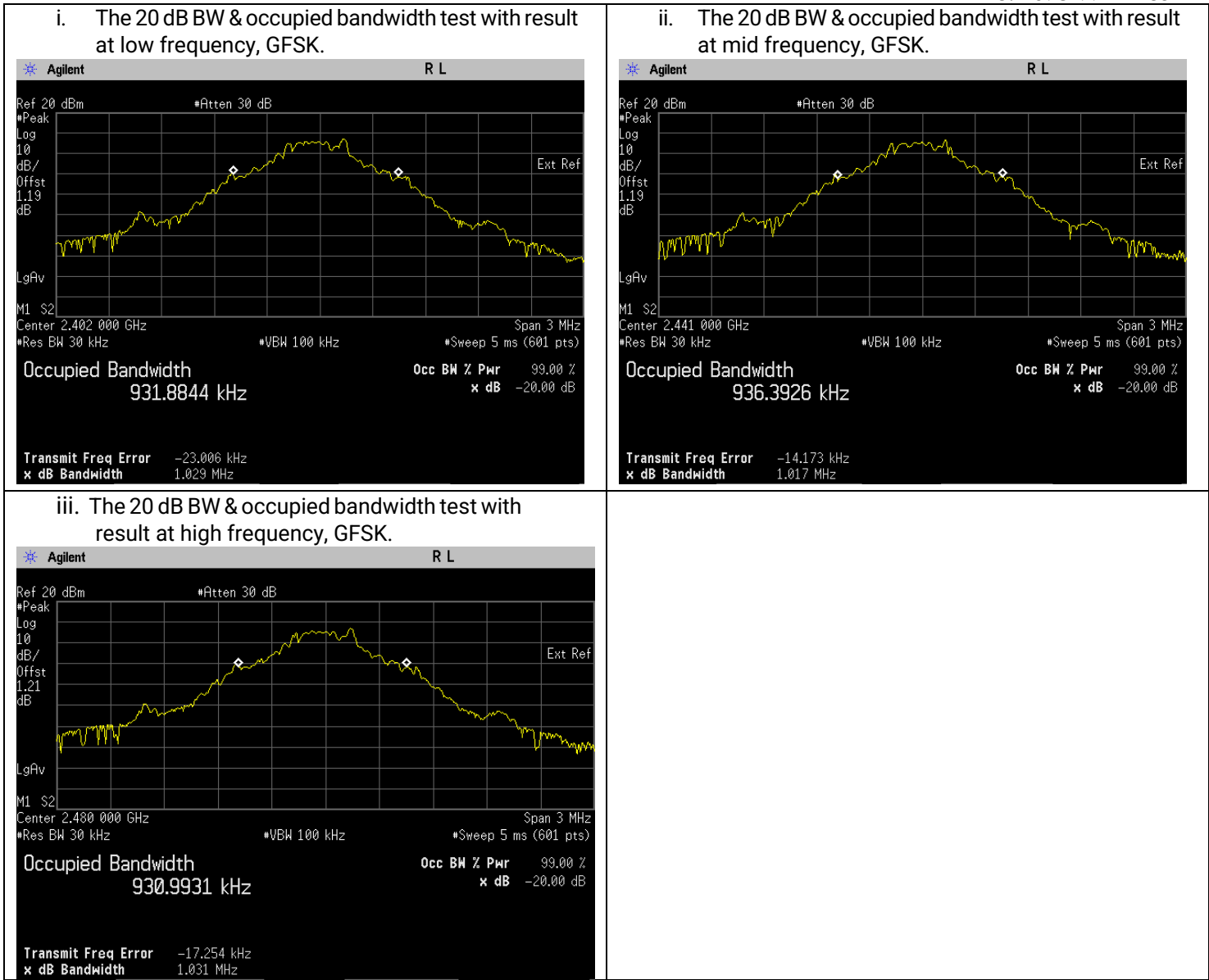
- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 30 kHz
 - b. VBW = 100 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE $\square$ Scale/Div = 10 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the freq different of two frequencies that were attenuated 20dB from peak of the emission & record the frequency difference as the emission bandwidth.
- f) Save the plot result from spectrum analyzer screen.
- g) Repeat above procedure with other different mode of operation.

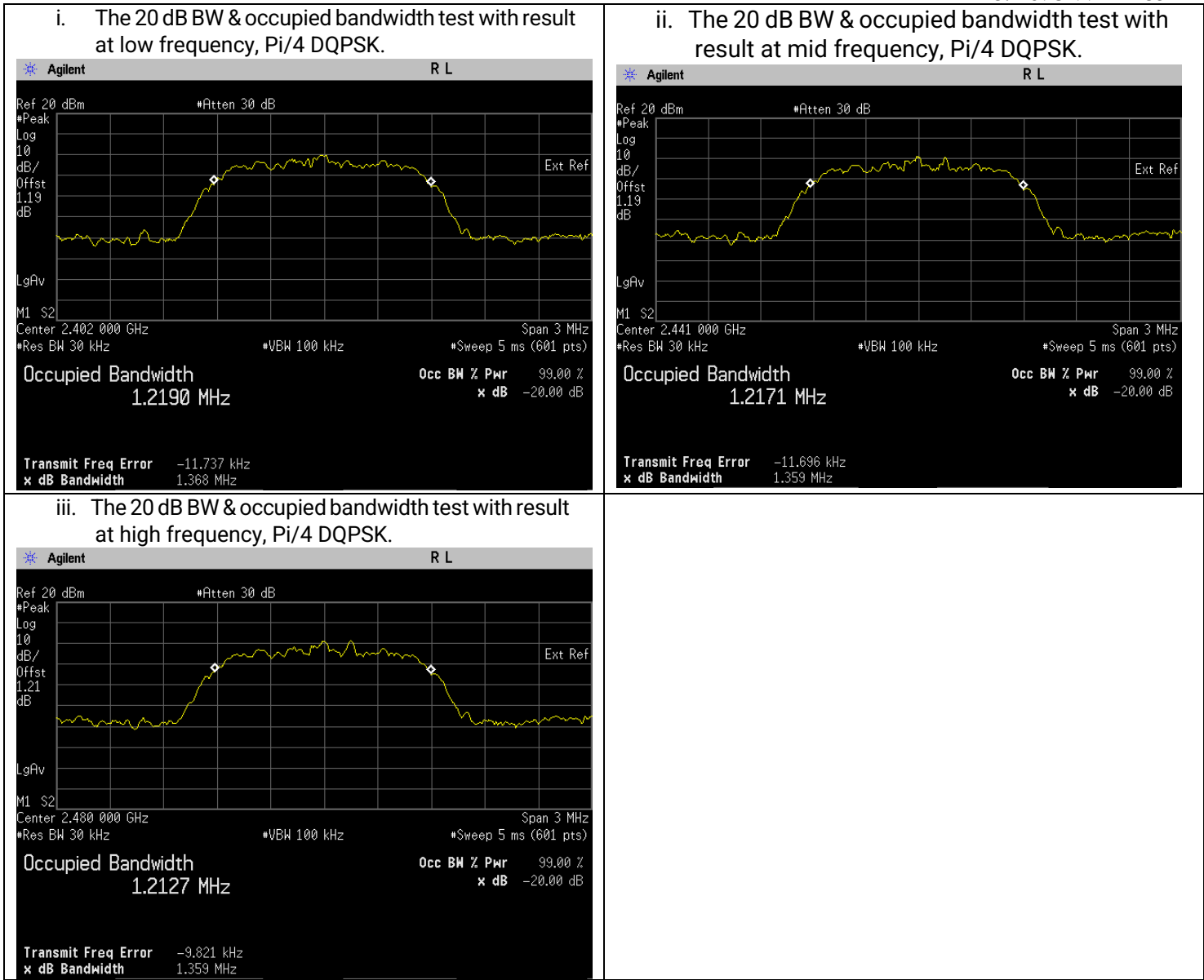
6.2.2. Test Limits:

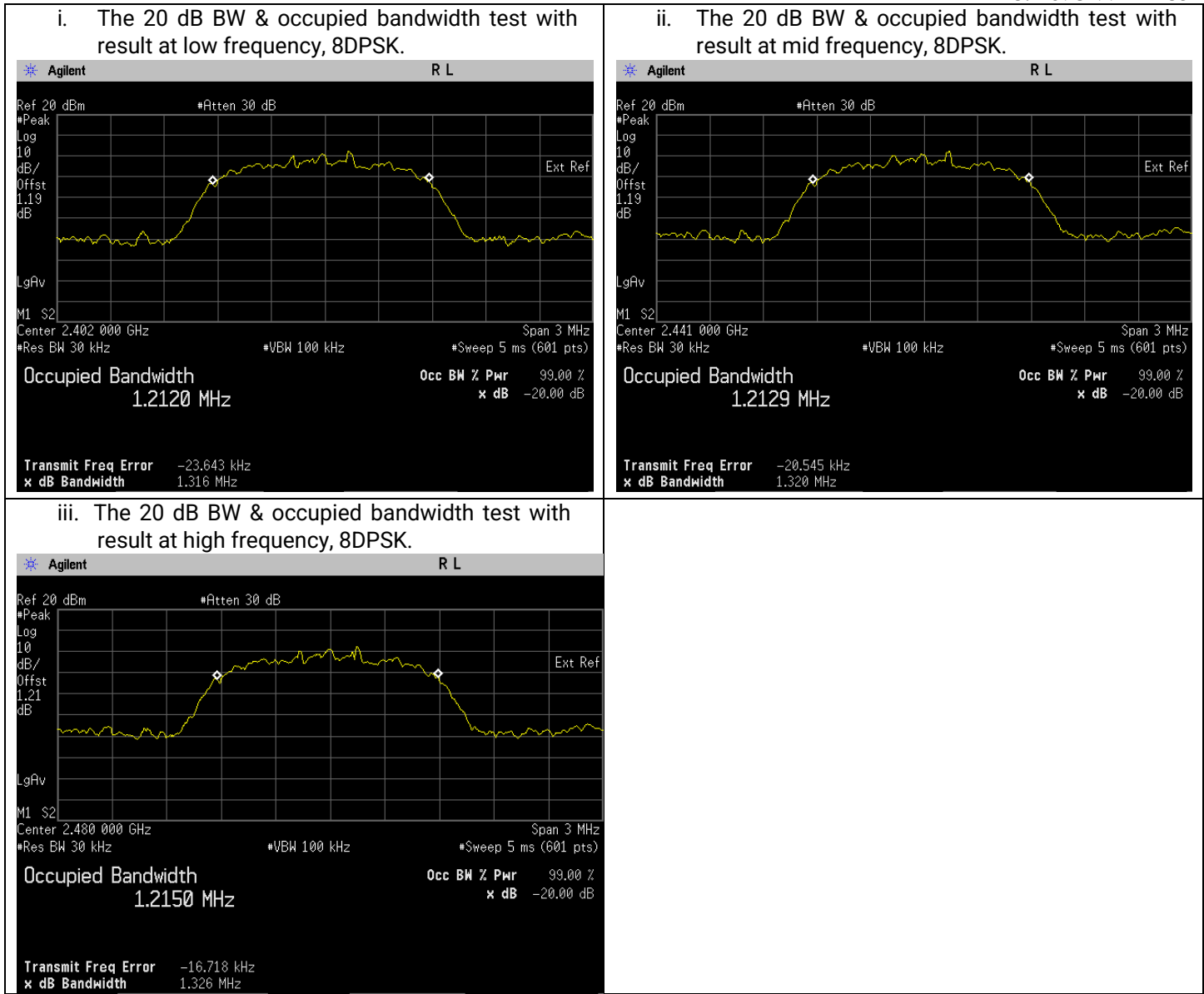
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

6.2.3. Test Data:

Test Conditions		Test Frequency TX (GHz)	Results (MHz)		
Modulation Type	Voltage(V)		20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Status
GFSK	7.50	2.4020	1.029	0.932	Pass
		2.4410	1.017	0.936	Pass
		2.4800	1.031	0.931	Pass
Pi/4 DQPSK	7.50	2.4020	1.368	1.219	Pass
		2.4410	1.359	1.217	Pass
		2.4800	1.359	1.213	Pass
8DPSK	7.50	2.4020	1.316	1.212	Pass
		2.4410	1.320	1.213	Pass
		2.4800	1.326	1.215	Pass

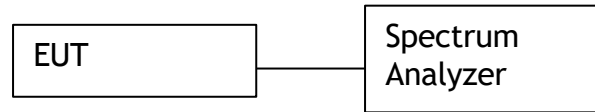






6.3. Band-edge Conducted Spurious Emission

6.3.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 4 MHz (Low channel) or 6MHz(High Channel)
 - d. Detector mode = Peak
 - e. AMPLITUDE $\square$ Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured band edge emission result and recording the plot.
- f) Repeat above on EUT with hopping disable.
- g) Repeat above procedure with other different test frequency.

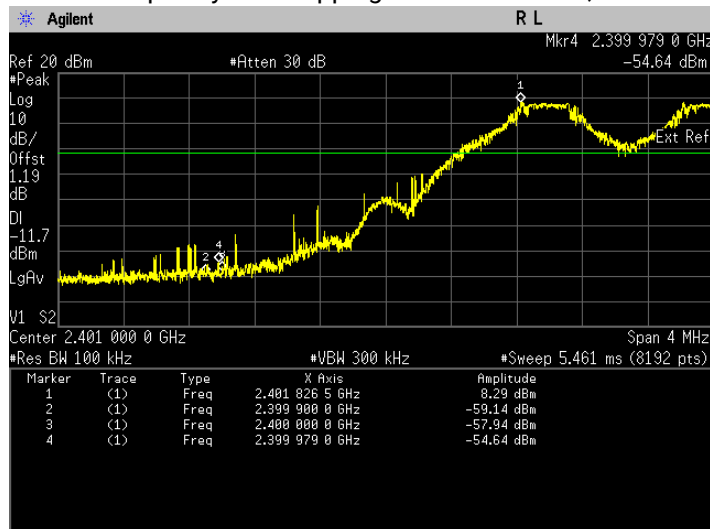
6.3.2. Test Limits

Normal Condition (25 ° C)
Shall be at least 20 dB below the peak power.

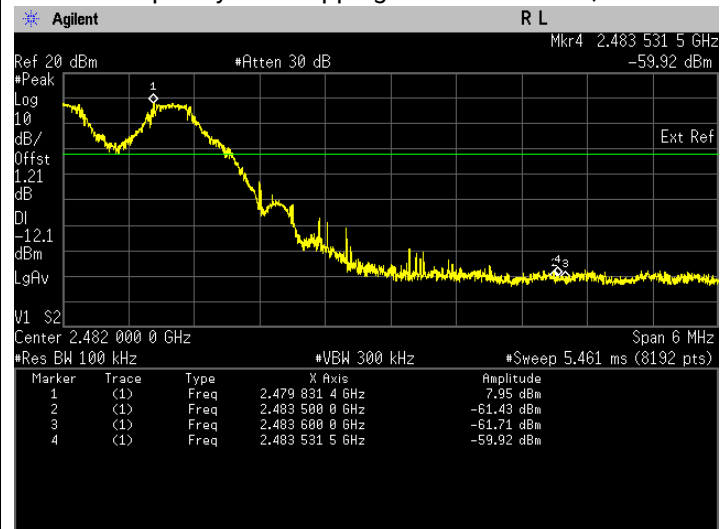
6.3.3. Test Result

Test Conditions		Hopping Method	Test Frequency (GHz)	Results	
Modulation	Voltage(V)			dB	Status
GFSK	7.50	Enabled (continuously)	2.4020	-54.64	Pass
			2.4800	-59.92	Pass
		Disabled (constantly)	2.4020	-44.28	Pass
			2.4800	-57.68	Pass
Pi/4 DQPSK	7.50	Enabled (continuously)	2.4020	-58.91	Pass
			2.4800	-60.45	Pass
		Disabled (constantly)	2.4020	-56.01	Pass
			2.4800	-59.64	Pass
8DPSK	7.50	Enabled (continuously)	2.4020	-56.85	Pass
			2.4800	-59.70	Pass
		Disabled (constantly)	2.4020	-56.13	Pass
			2.4800	-58.89	Pass

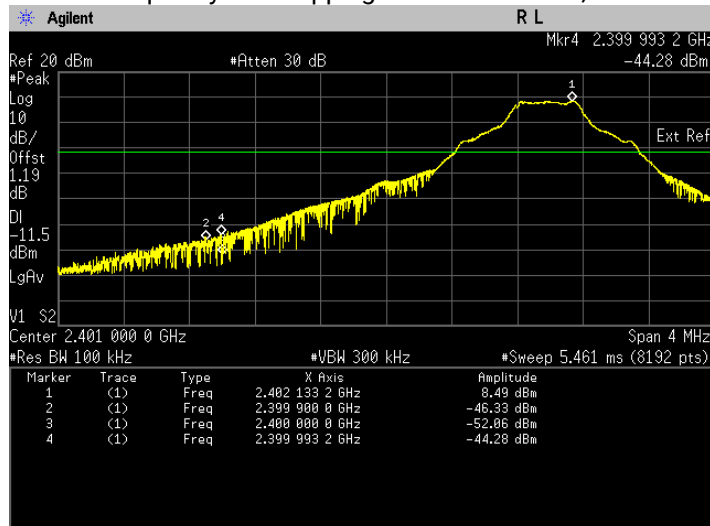
i. The highest band edge emission at low carrier frequency with hopping function enabled, GFSK



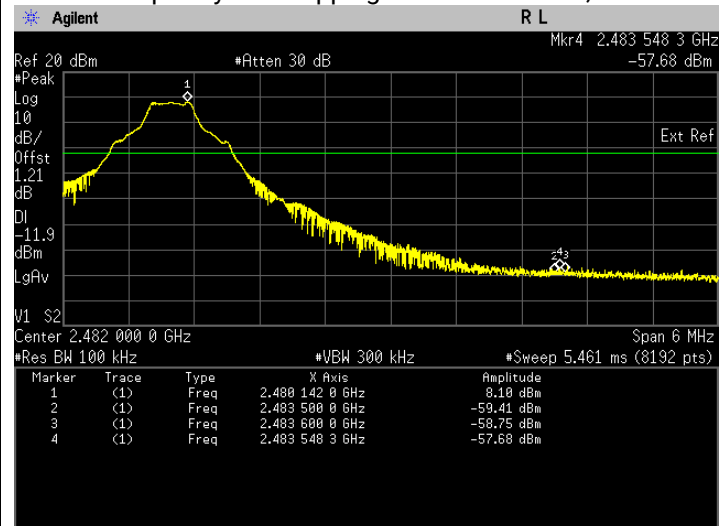
ii. The highest band edge emission at high carrier frequency with hopping function enabled, GFSK



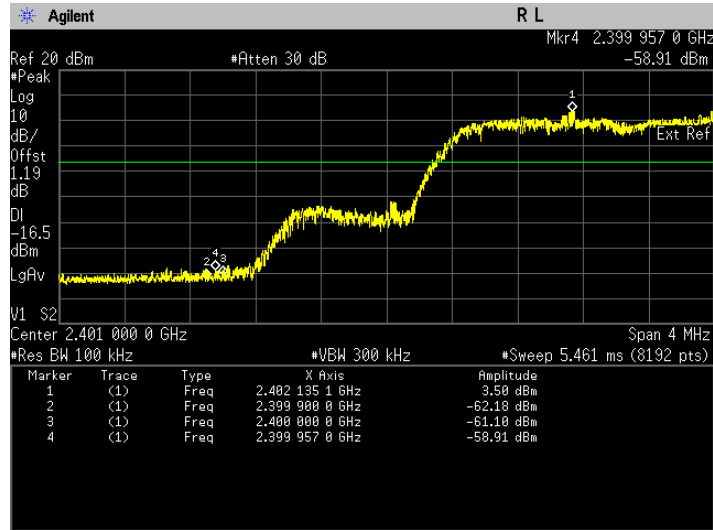
iii. The highest band edge emission at low carrier frequency with hopping function disabled, GFSK



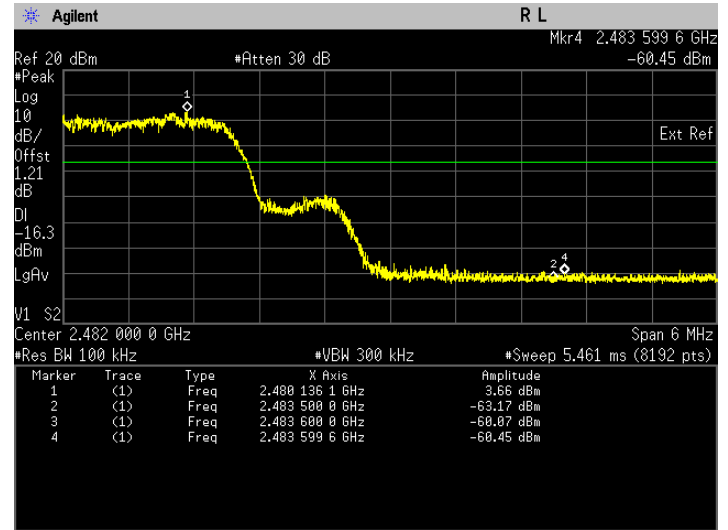
iv. The highest band edge emission at high carrier frequency with hopping function disabled, GFSK



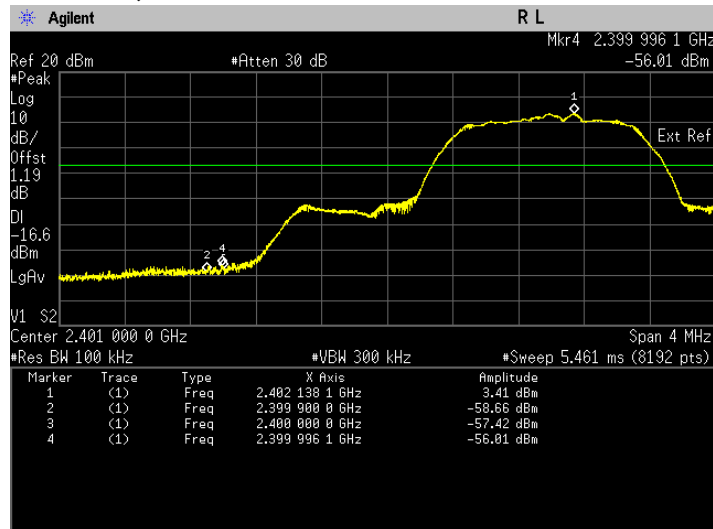
- i. The highest band edge emission at low carrier frequency with hopping function enabled, Pi/4 DQPSK



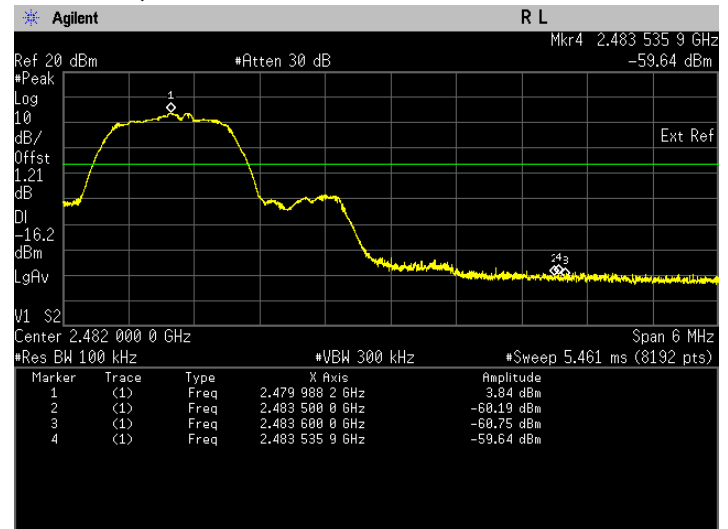
- ii. The highest band edge emission at high carrier frequency with hopping function enabled, Pi/4 DQPSK



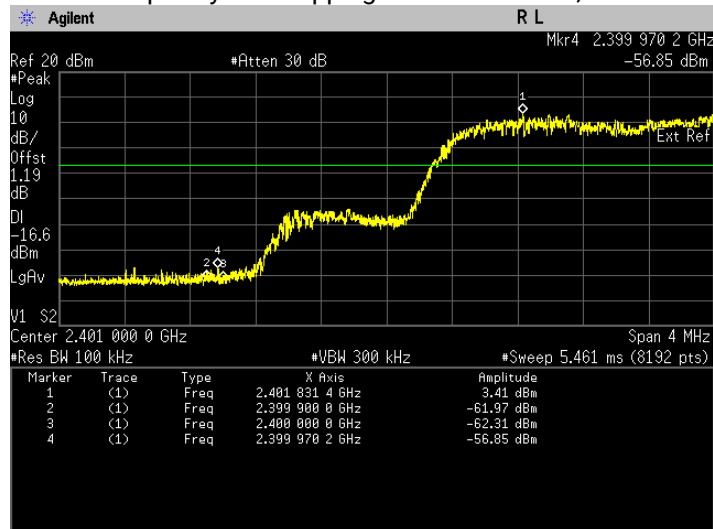
- iii. The highest band edge emission at low carrier frequency with hopping function disabled, Pi/4 DQPSK



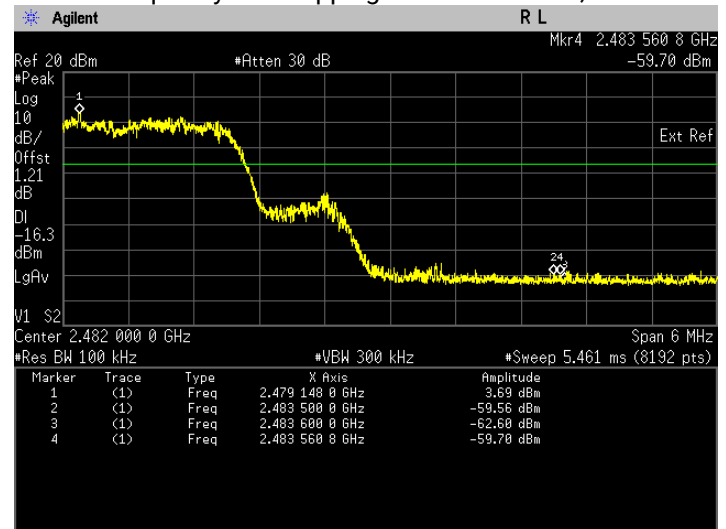
- iv. The highest band edge emission at high carrier frequency with hopping function disabled, Pi/4 DQPSK



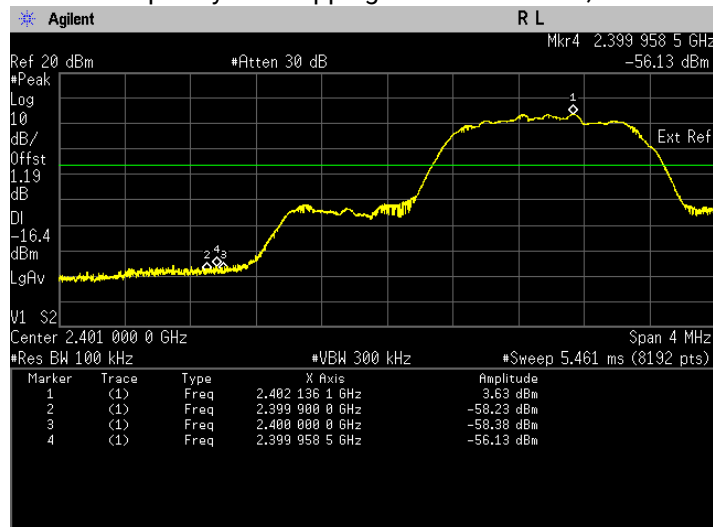
i. The highest band edge emission at low carrier frequency with hopping function enabled, 8DPSK



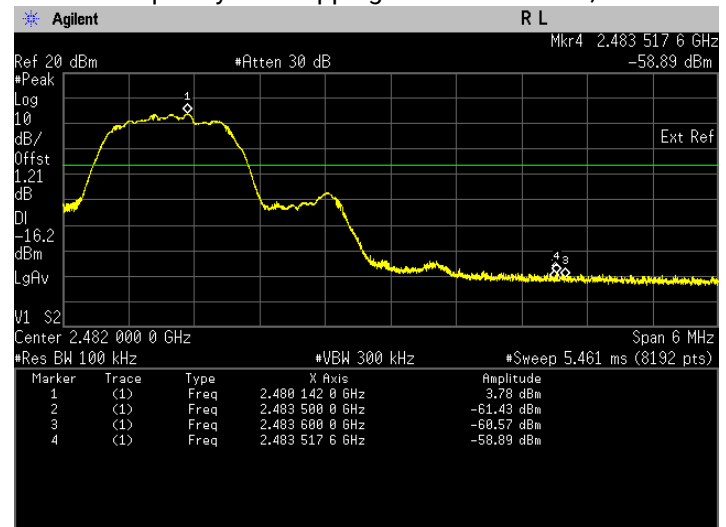
ii. The highest band edge emission at high carrier frequency with hopping function enabled, 8DPSK



iii. The highest band edge emission at low carrier frequency with hopping function disabled, 8DPSK

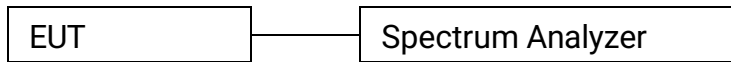


iv. The highest band edge emission at high carrier frequency with hopping function disabled, 8DPSK



6.4. Dwell time on each channel

6.4.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Zero SPAN, center on hopping frequency
 - d. Detector mode = Peak
 - e. Trace = Max hold
 - f. Sweep time = 5second
 - g. Sweep = Single
- e) Measure total numbers of transmissions occur in 5 second and save the plot.
- f) Change the setting of spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Sweep time = sufficient to capture dwell time for 1 transmission
 - d. Sweep = Single
- g) Measure dwell time for 1 transmission and save the plot.
- h) Calculate accumulate dwell time in a given period equal to number of hopping frequencies x 0.4
- i) Repeat above procedure with other different mode of operation.

6.4.2. Test Limits:

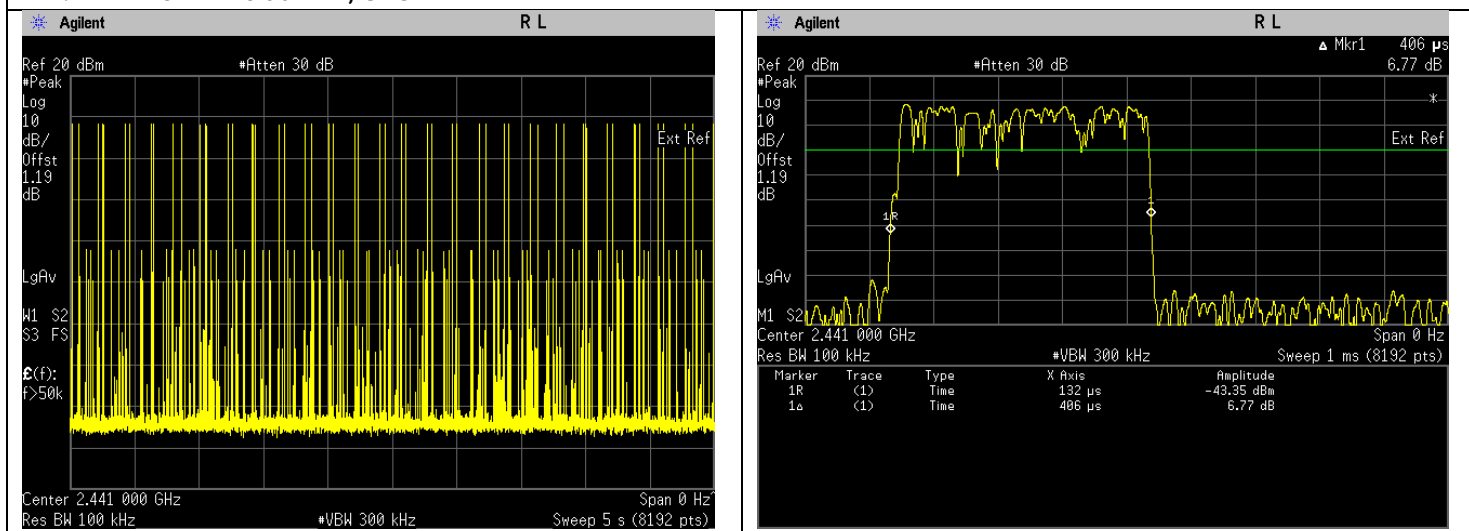
Normal Condition (25 ° C)
≤ 400ms

6.4.3. Test Result

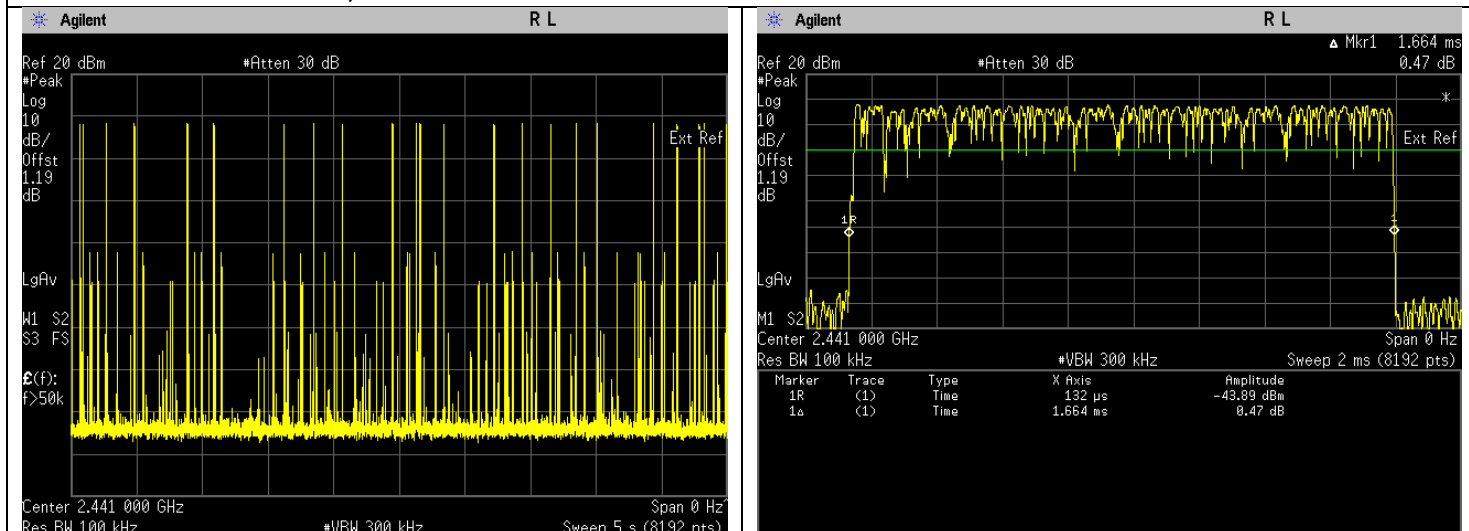
Test Conditions			Data Packag e	Results			
Modulation	Voltage (V)	Test Frequency (GHz)		No. of transmission in 5s (a)	Dwell time in one transmission (b) (msec)	Total accumulate dwell time in 31.6s. (c) (msec)	Status
GFSK	7.50	2.4410	DH1	52	0.406	133.427840	Pass
			DH3	24	1.664	252.395520	Pass
			DH5	17	2.911	312.757840	Pass
Pi/4 DQPSK	7.50		DH1	52	0.414	136.056960	Pass
			DH3	23	1.665	242.024400	Pass
			DH5	19	2.914	349.913120	Pass
8 DPSK	7.50		DH1	52	0.413	135.728320	Pass
			DH3	24	1.664	252.395520	Pass
			DH5	18	2.916	331.724160	Pass

**Note: Total dwell time 31.6s (79Hopping*0.4), (c) = (a) x 6.32 x (b)

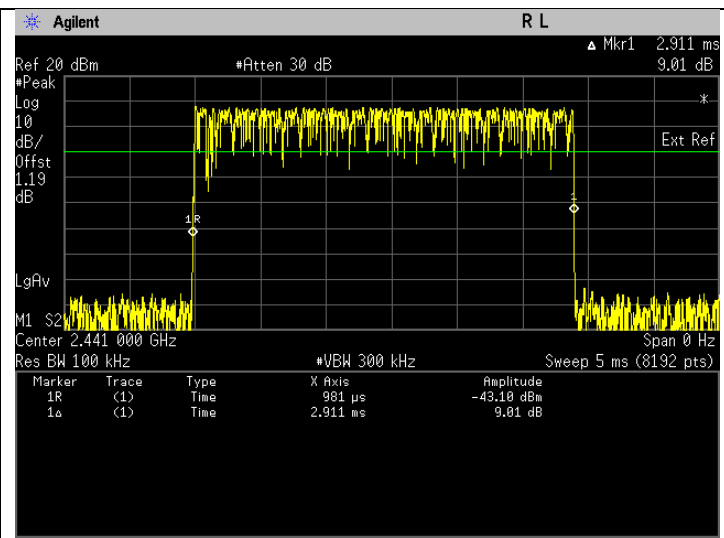
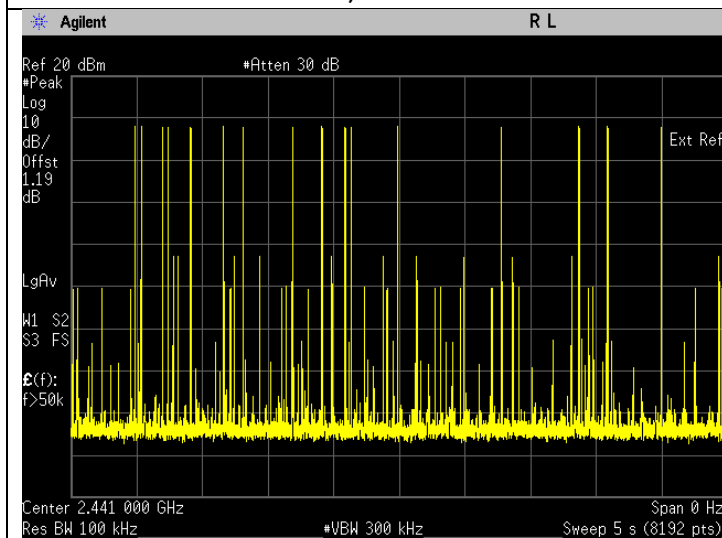
i. Dwell Time at DH1, GFSK



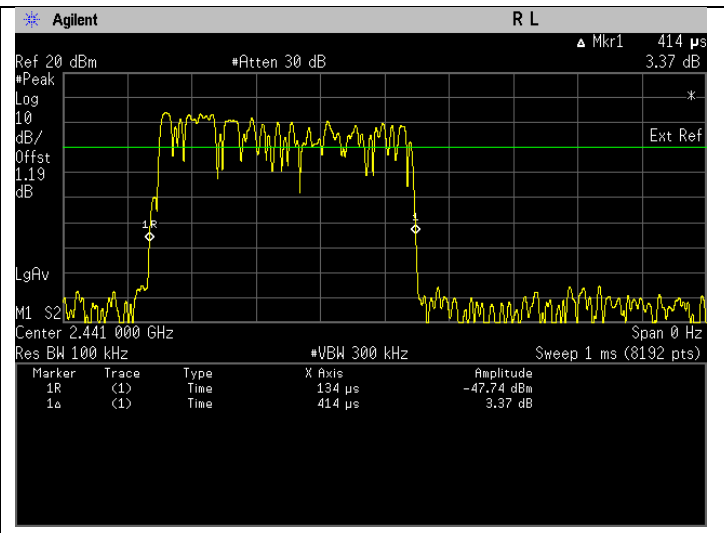
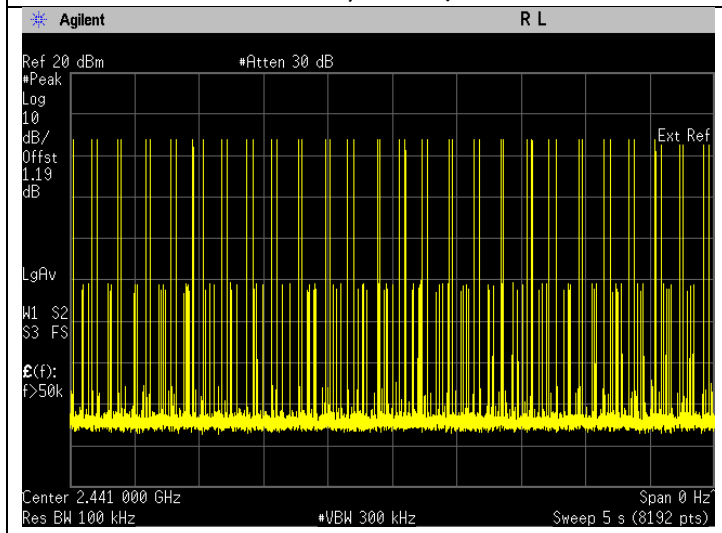
ii. Dwell Time at DH3, GFSK



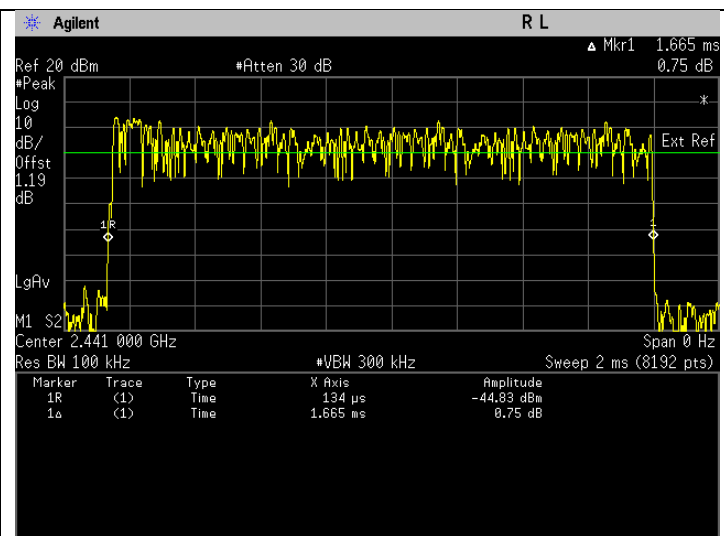
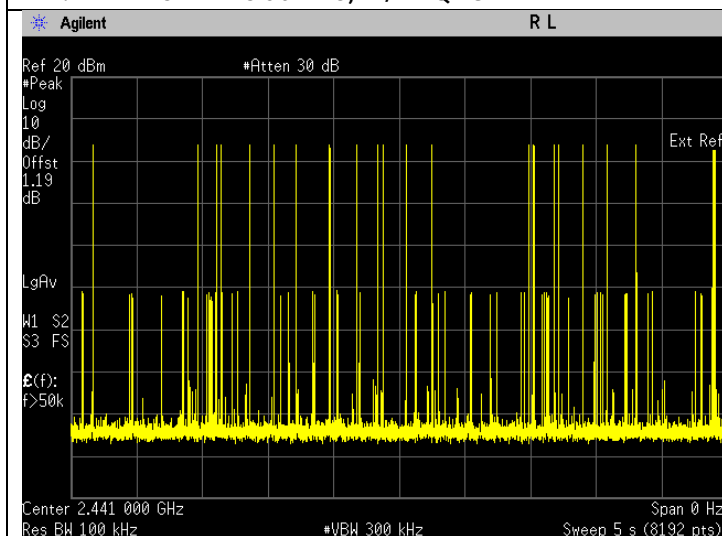
iii. Dwell Time at DH5, GFSK



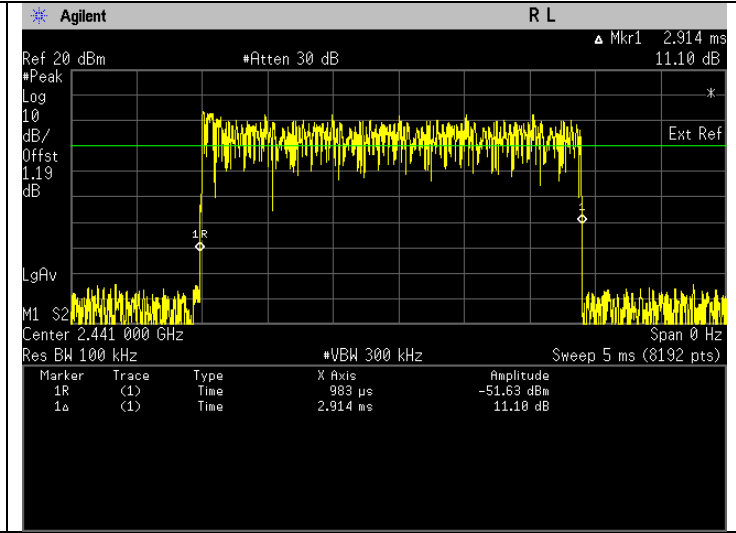
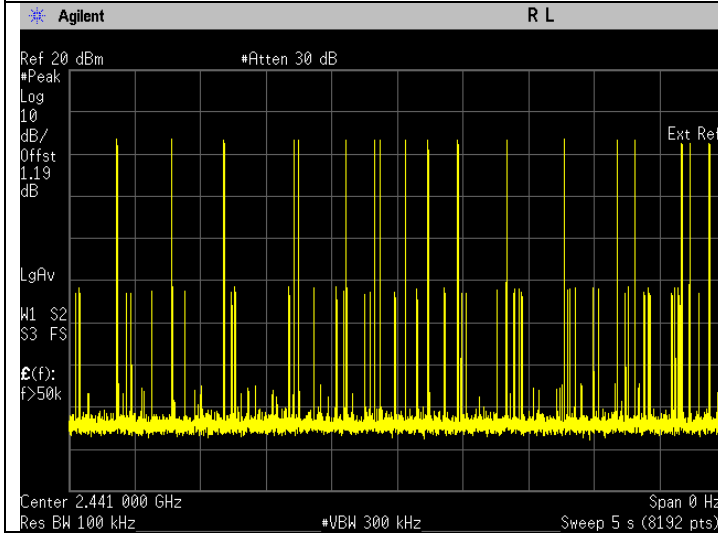
iv. Dwell Time at DH1, PI/4DQPSK



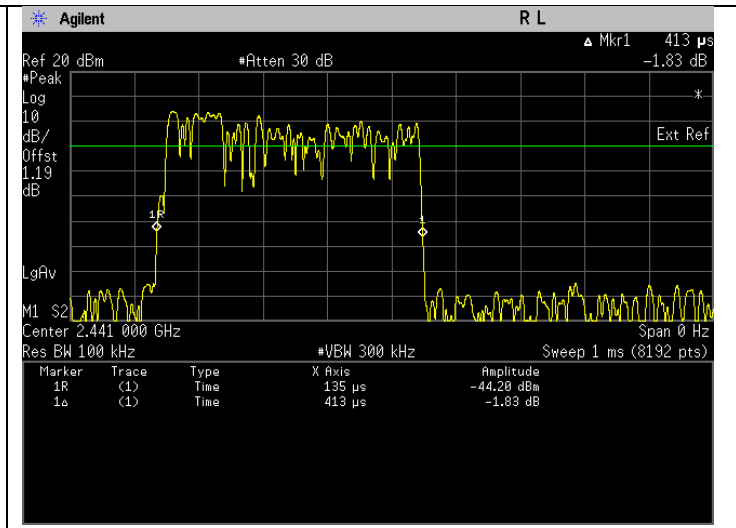
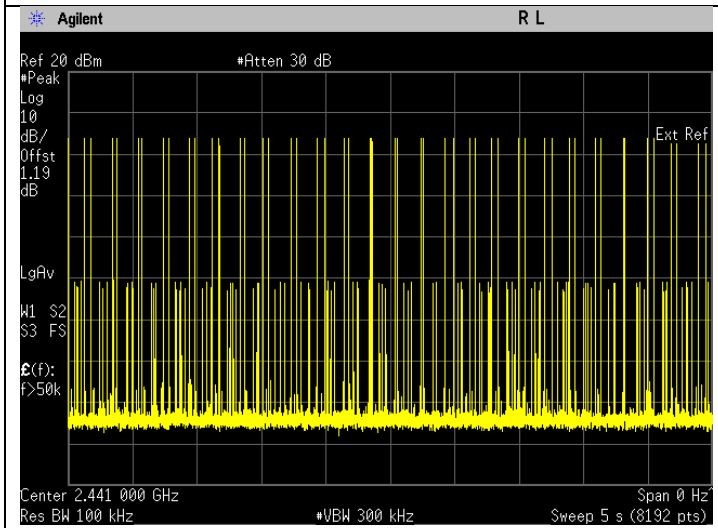
v. Dwell Time at DH3, PI/4DQPSK



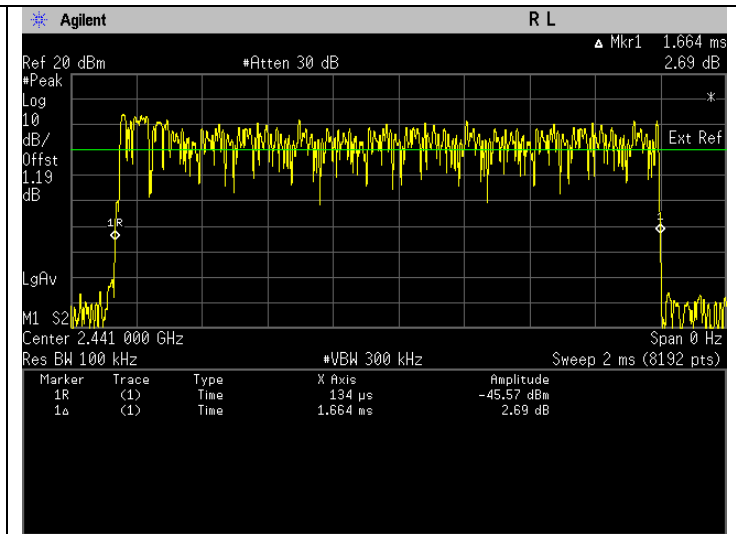
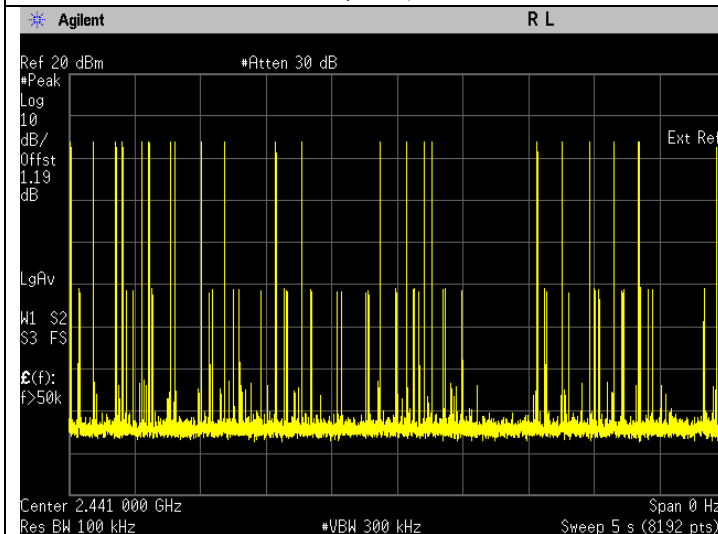
vi. Dwell Time at DH5, PI/4QPSK

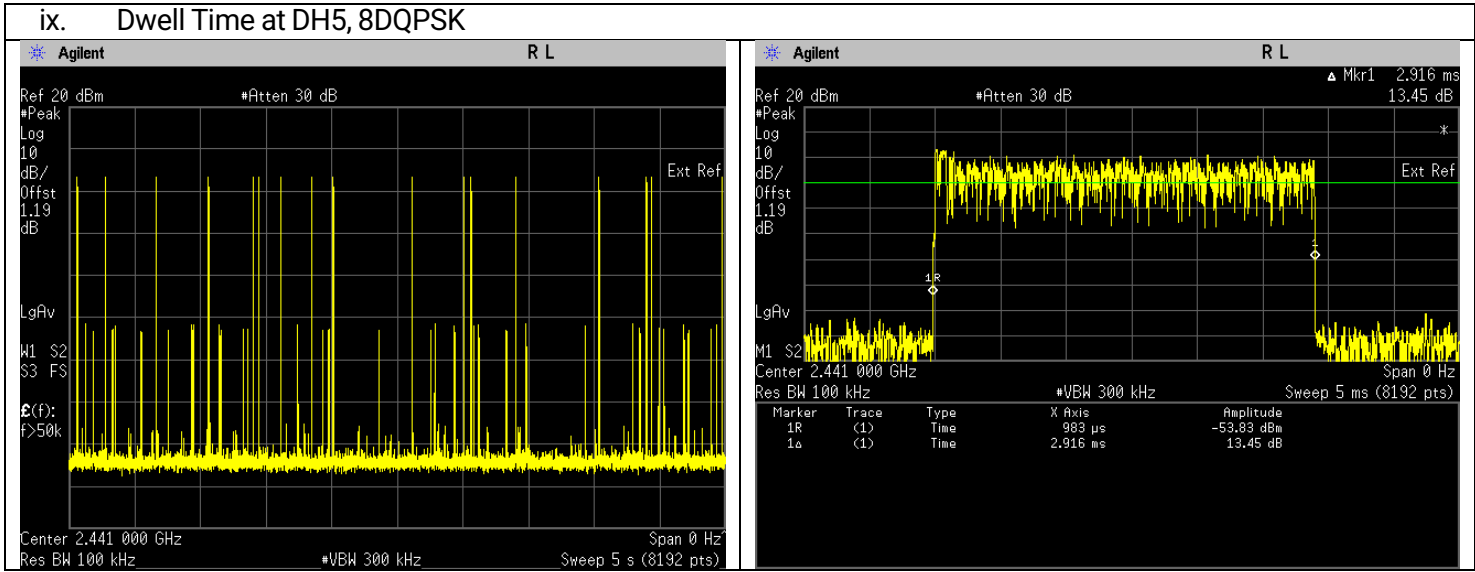


vii. Dwell Time at DH1, 8DQPSK



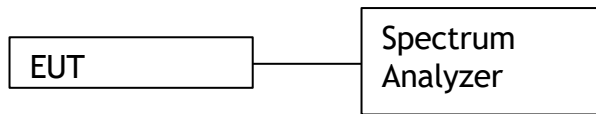
viii. Dwell Time at DH3, 8DQPSK





6.5. Number of hopping Frequency

6.5.1. Test Setup



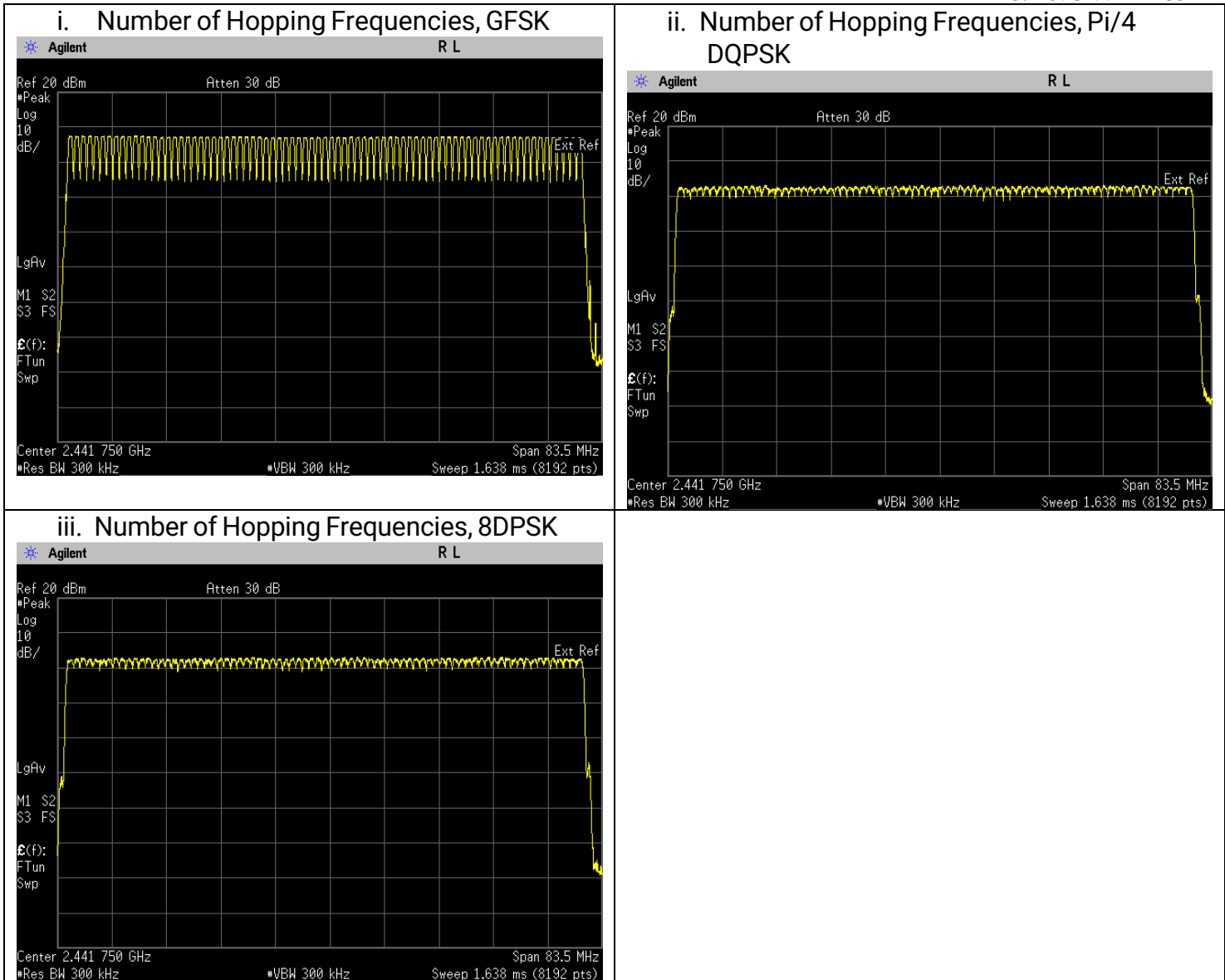
- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
- e) Allow the trace to stabilized & save the plot result from spectrum analyzer screen.
- f) Count number of channel frequency in the operating.
- g) Repeat above procedure for other test frequency.

6.5.2. Test Limits:

Normal Condition (25 ° C)
≥ 15

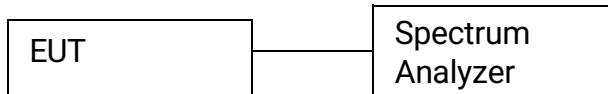
6.5.3. Test Result

Test Conditions		Sweep Range (GHz)	Results	
Modulation	Voltage(V)		No. of Hopping Frequencies	Status
GFSK	7.50	2.4000-2.4835	79	Pass
Pi/4DQPSK	7.50	2.4000-2.4835	79	Pass
8DPSK	7.50	2.4000-2.4835	79	Pass



6.6. Channel Separation

6.6.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE $\square$ Scale/Div = 5 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the frequency different of these two adjacent channels with marker delta function & record the measurement results.
- f) Repeat above procedure with other different mode of operation.

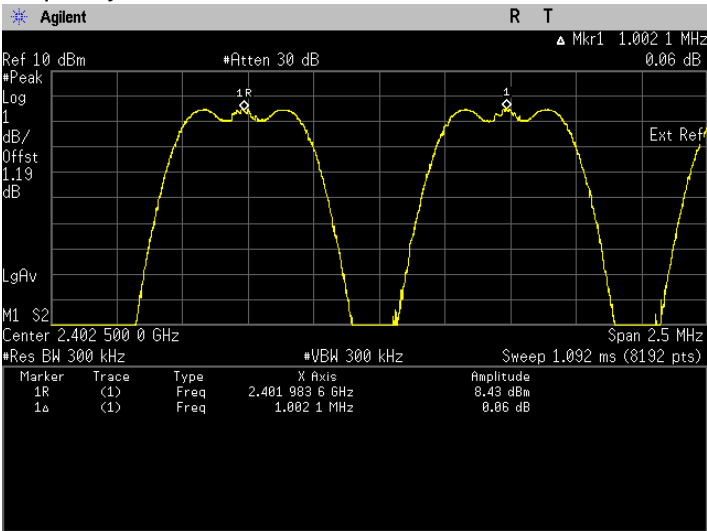
6.6.2. Test Limits:

Normal Condition (25 ° C)
$\geq 2/3$ of 20dB Bandwidth

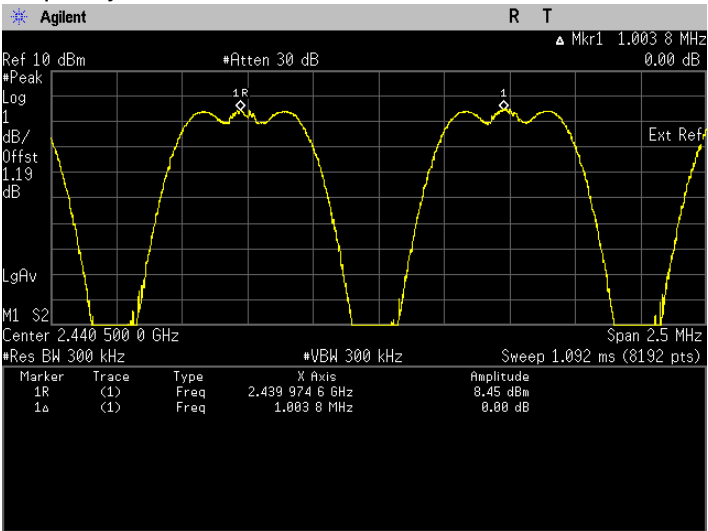
6.6.3. Test Result

Test Conditions		Test Frequency (GHz)	Results			
Modulation	Voltage(V)		Test Data Adjacent Channel Separation (MHz)	20dB Bandwidth (MHz)	Min Limit = 2/3 of 20dB Bandwidth (kHz)	Status
GFSK	7.50	2.4020	1.002	1.029	686.000	Pass
		2.4410	1.004	1.017	678.000	Pass
		2.4800	0.999	1.031	687.333	Pass
Pi/4DQPSK	7.50	2.4020	1.000	1.368	912.000	Pass
		2.4410	1.001	1.359	906.000	Pass
		2.4800	0.996	1.359	906.000	Pass
8DPSK	7.50	2.4020	1.002	1.316	877.333	Pass
		2.4410	1.001	1.320	880.000	Pass
		2.4800	1.006	1.326	884.000	Pass

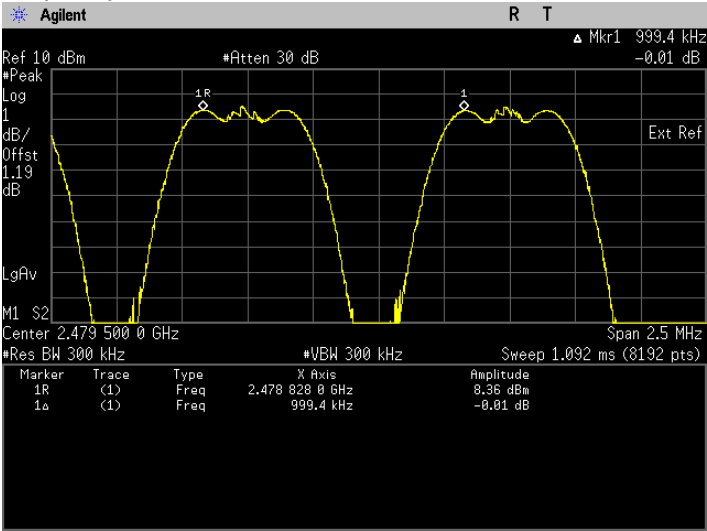
The Conducted RF Output Power test with result at low frequency, GFSK.



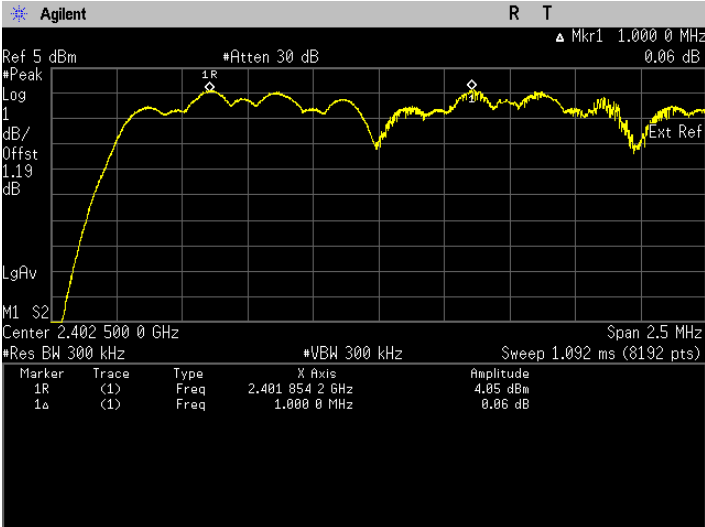
The Conducted RF Output Power test with result at mid frequency, GFSK.



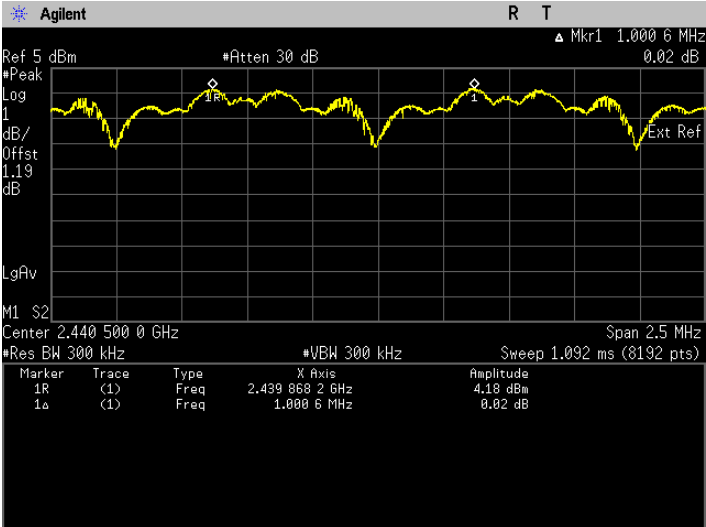
The Conducted RF Output Power test with result at high frequency, GFSK.



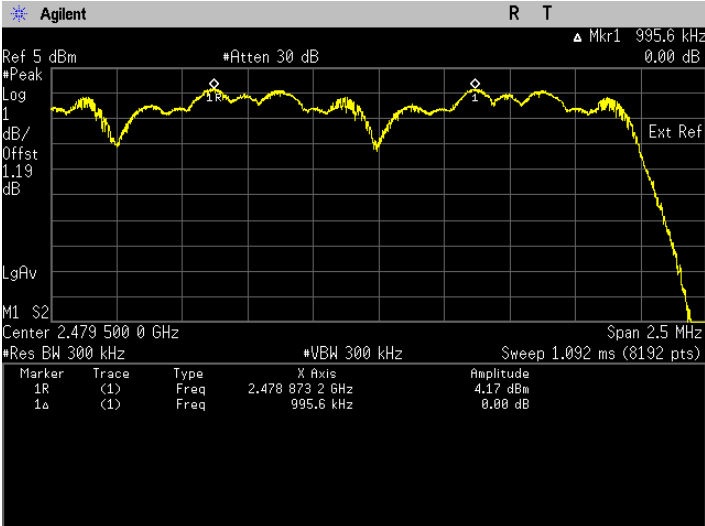
The Conducted RF Output Power test with result at low frequency, Pi/4 DQPSK.



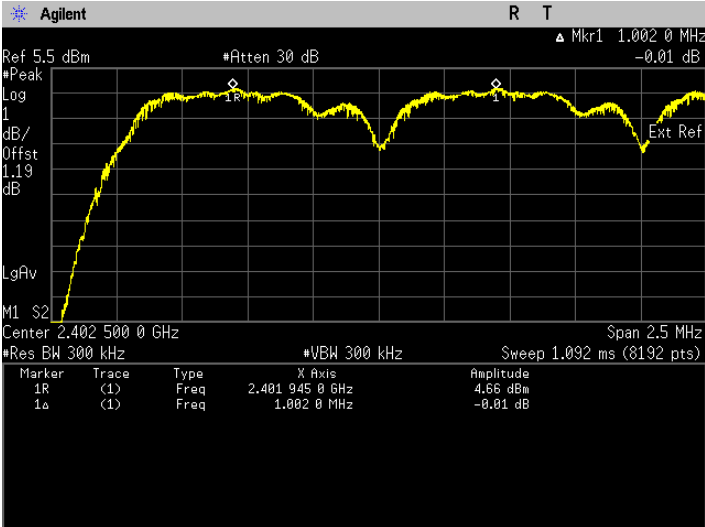
The Conducted RF Output Power test with result at mid frequency, Pi/4 DQPSK.



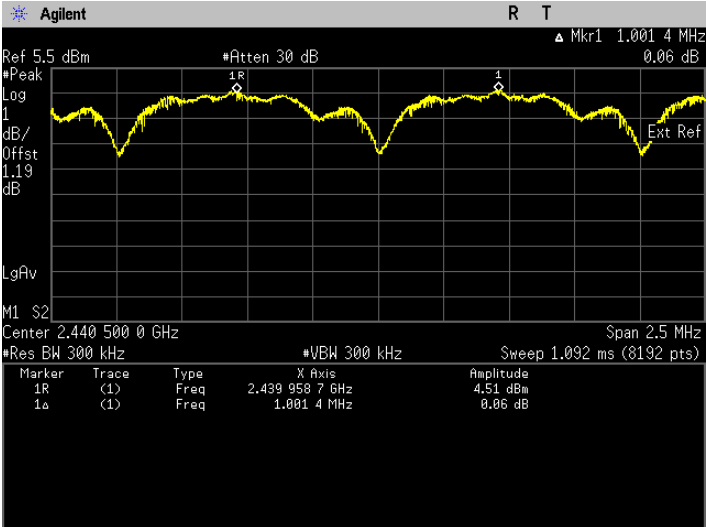
The Conducted RF Output Power test with result at high frequency, Pi/4 DQPSK.



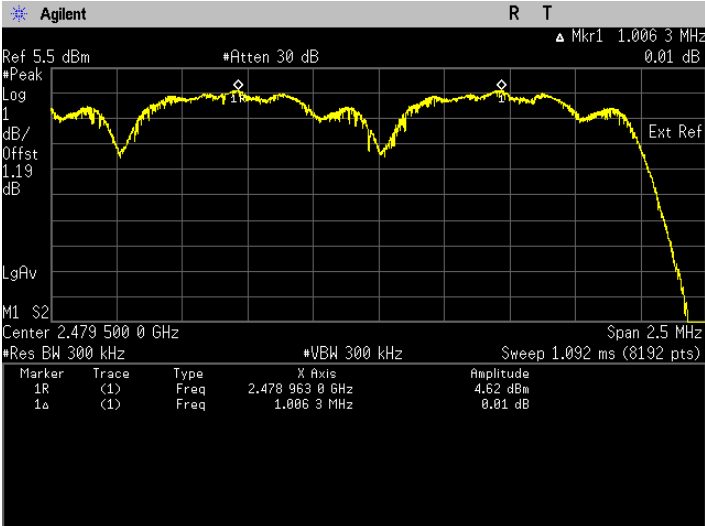
The Conducted RF Output Power test with result at low frequency, 8DPSK.



The Conducted RF Output Power test with result at mid frequency, 8DPSK.

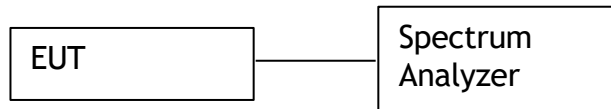


The Conducted RF Output Power test with result at high frequency, 8DPSK.



6.7. Conducted Spurious Emission

6.7.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Cover until 10th harmonic
 - d. Detector mode = Peak
 - e. AMPLITUDE $\square$ Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured spurious emission result and recording the plot.
- f) Repeat above procedure with other different mode of operation.

6.7.2. Test Limits:

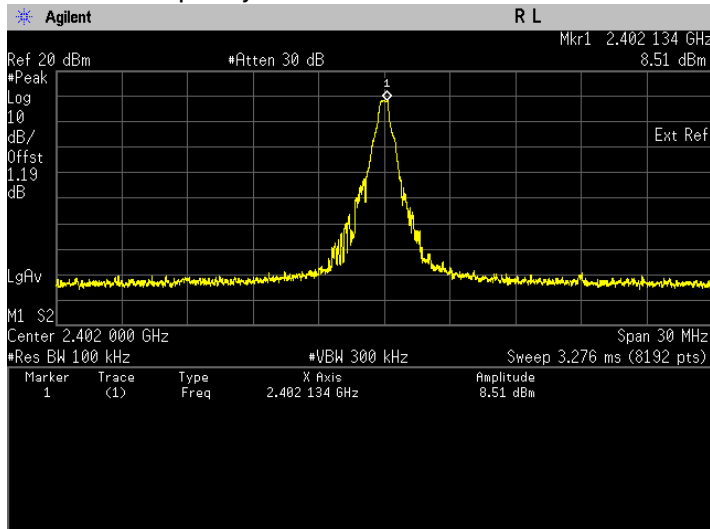
Normal Condition (25 ° C)
Shall be at least 20 dB below for peak power.

6.7.3. Test Data:

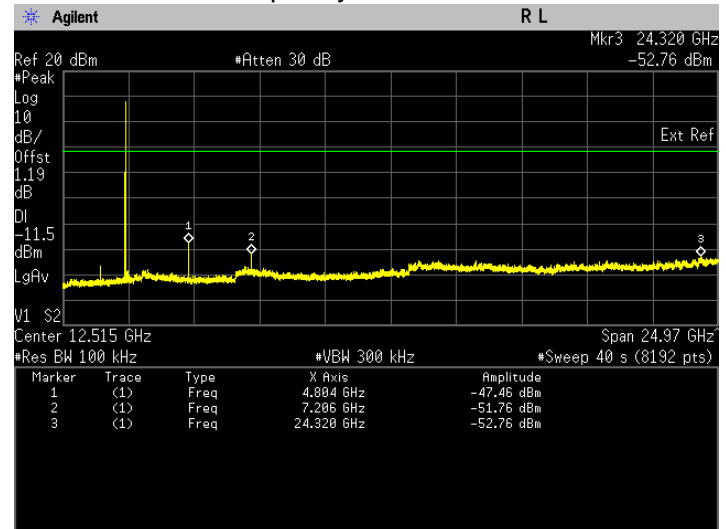
Test Conditions			Results		
Modulation	Voltage(V)	Test Frequency (GHz)	Spurs (MHz)	Level (dBm)	Status
GFSK	7.50	2.4020	4804.000	-47.458	Pass
		2.4410	4883.000	-48.924	Pass
		2.4800	4959.000	-48.349	Pass
Pi/4 DQPSK	7.50	2.4020	24732.000	-52.809	Pass
		2.4410	24375.000	-53.109	Pass
		2.4800	24335.000	-53.212	Pass
8DPSK	7.50	2.4020	24686.000	-52.546	Pass
		2.4410	24793.000	-52.504	Pass
		2.4800	24342.000	-52.980	Pass

GFSK Modulation:

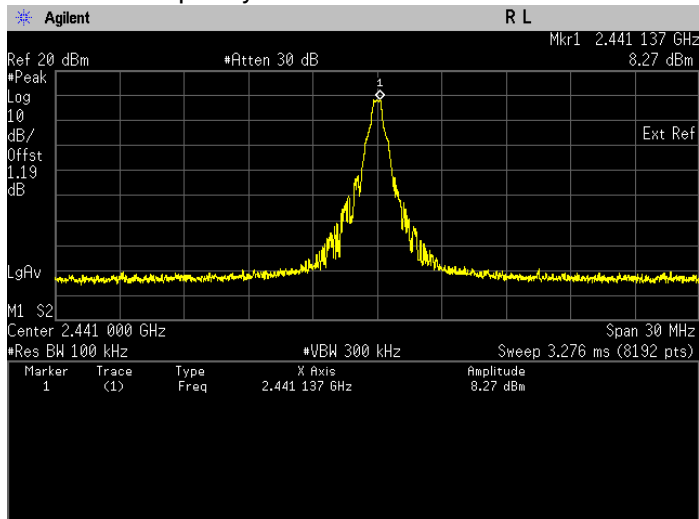
- The high emission level within the assigned band at low carrier frequency.



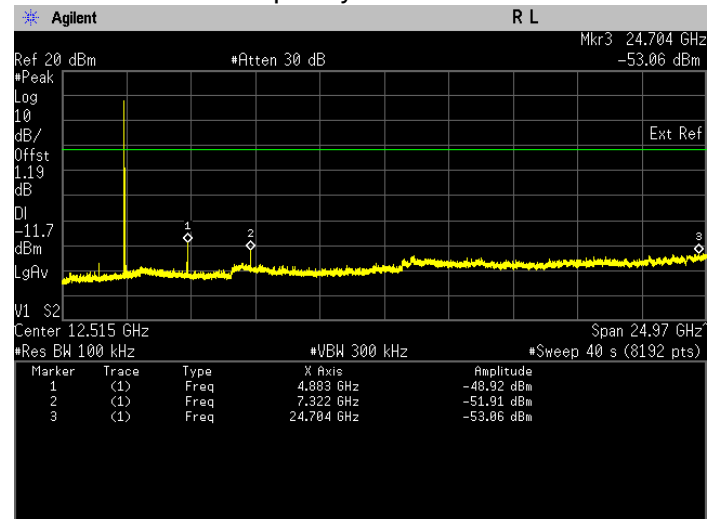
- Spurious emission measurement in 30MHz — 25GHz at low carrier frequency.



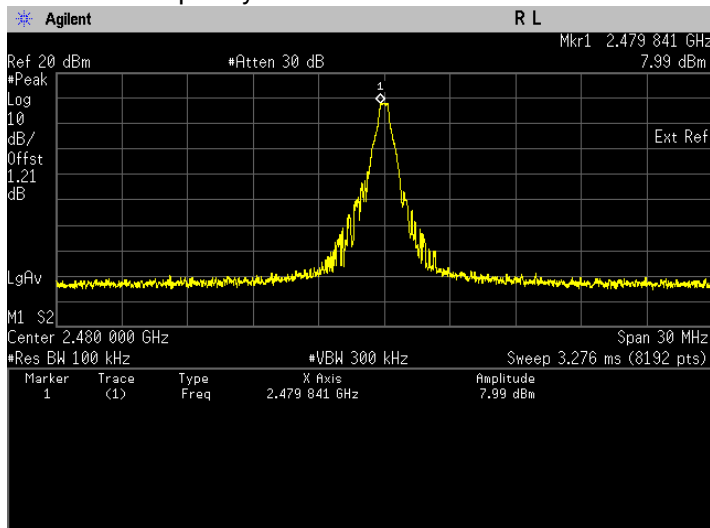
- The high emission level within the assigned band at mid carrier frequency.



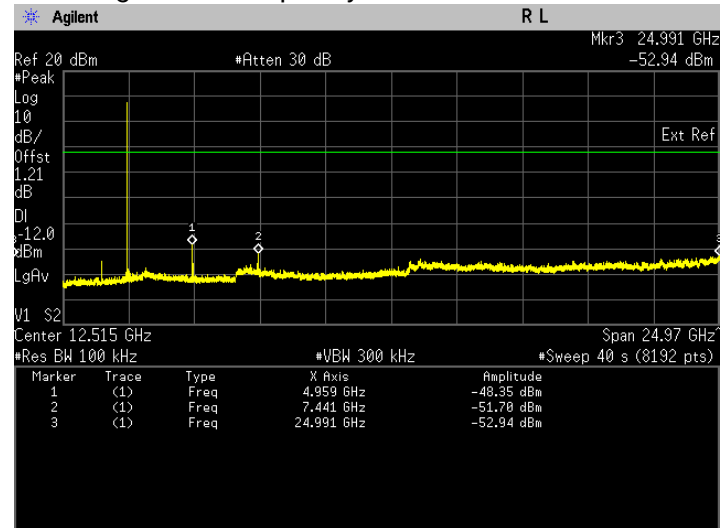
- Spurious emission measurement in 30MHz — 25GHz at mid carrier frequency.



- The high emission level within the assigned band at high carrier frequency.

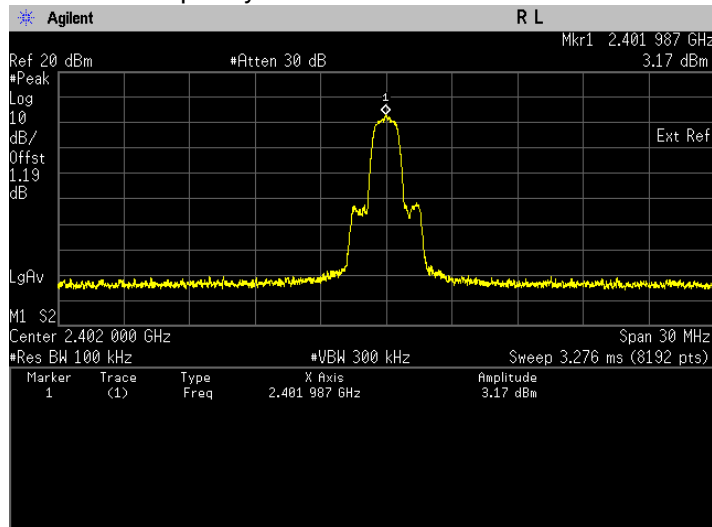


- Spurious emission measurement in 30MHz — 25GHz at high carrier frequency.

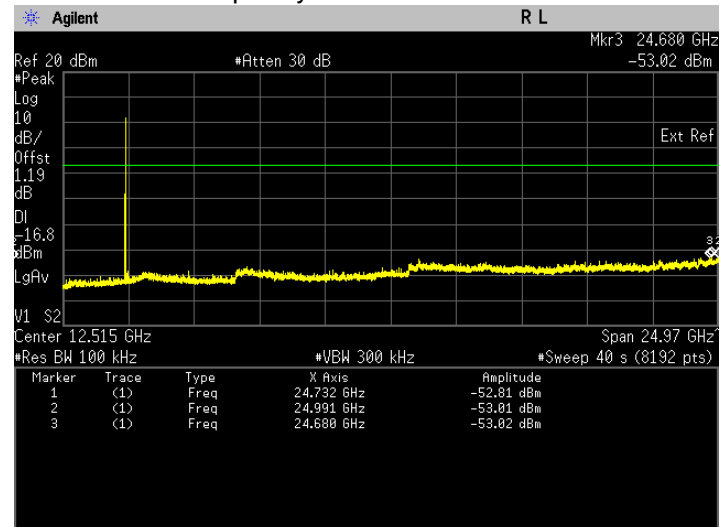


Pi/4 DQPSK Modulation:

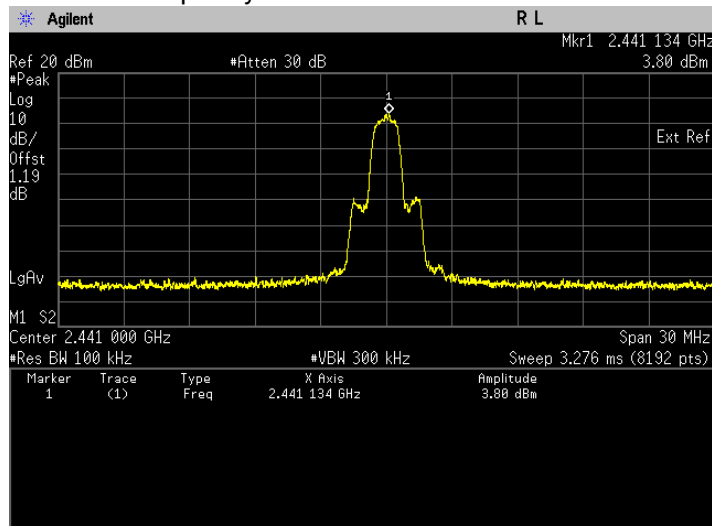
i. The high emission level within the assigned band at low carrier frequency.



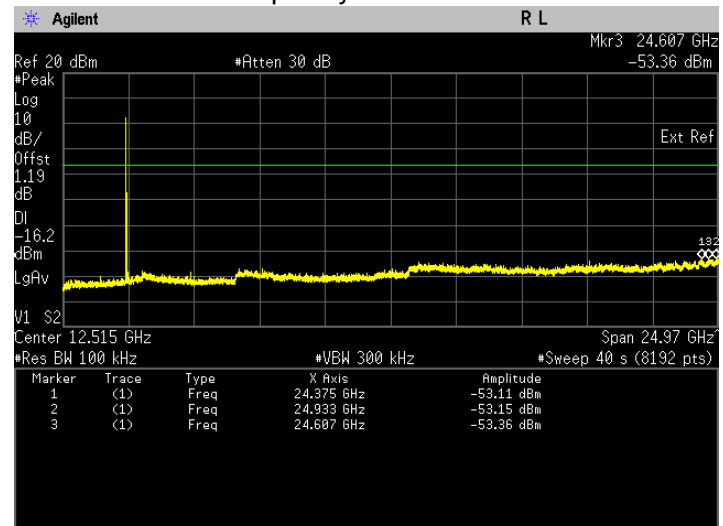
ii. Spurious emission measurement in 30MHz — 25GHz at low carrier frequency.



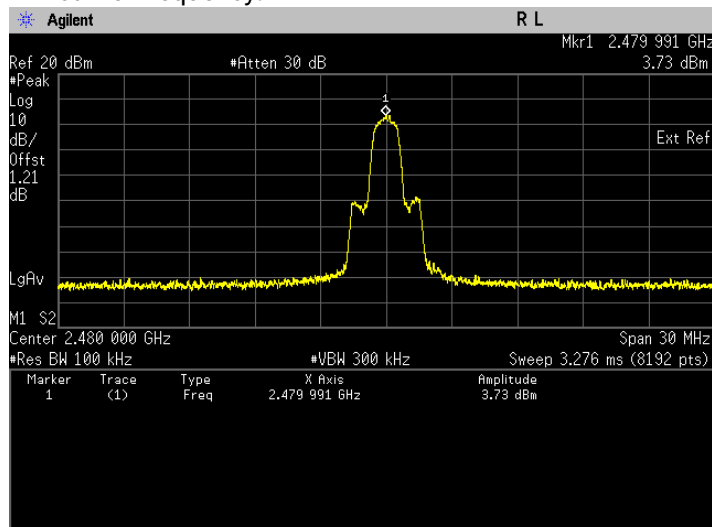
iii. The high emission level within the assigned band at mid carrier frequency.



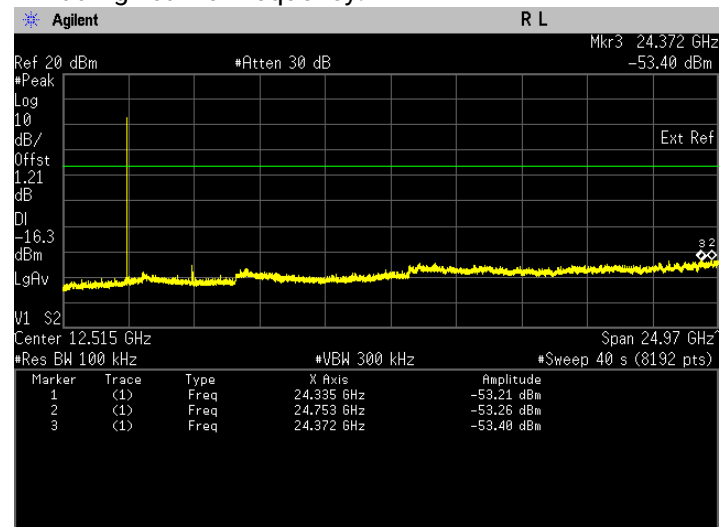
iv. Spurious emission measurement in 30MHz — 25GHz at mid carrier frequency.



v. The high emission level within the assigned band at high carrier frequency.

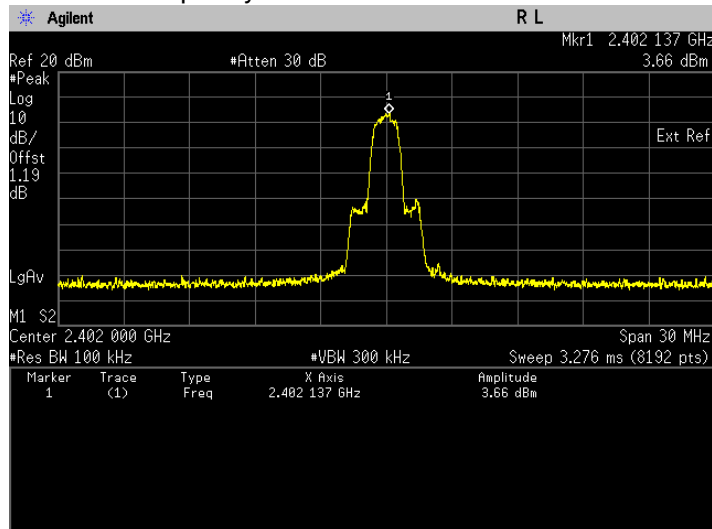


vi. Spurious emission measurement in 30MHz — 25GHz at high carrier frequency.

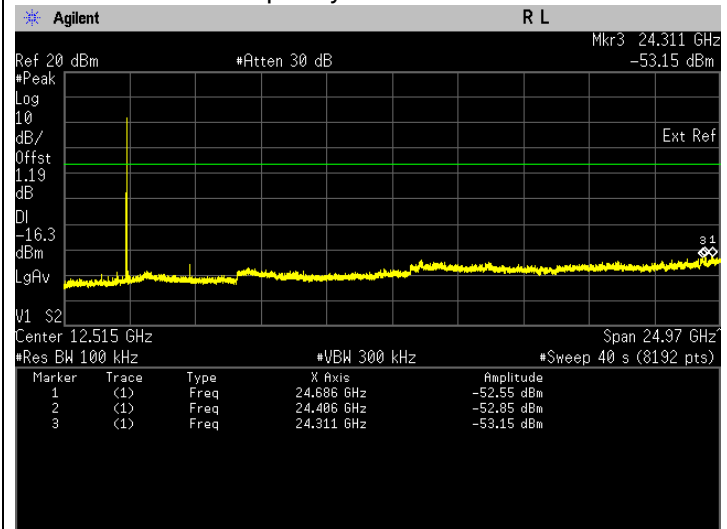


8DPSK Modulation:

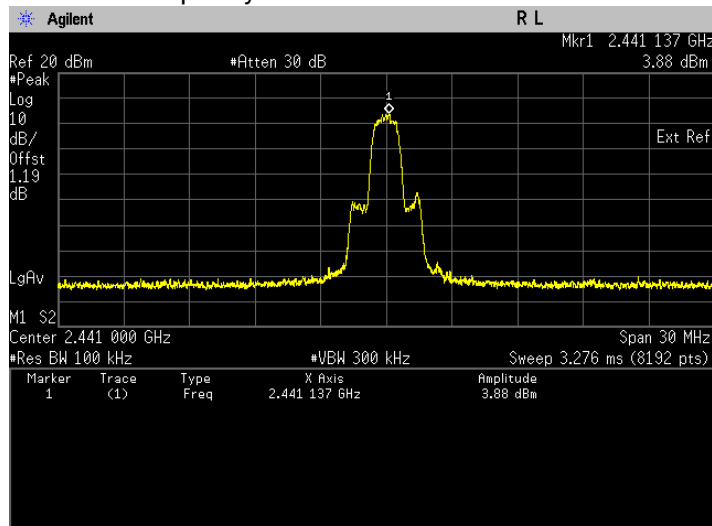
i. The high emission level within the assigned band at low carrier frequency.



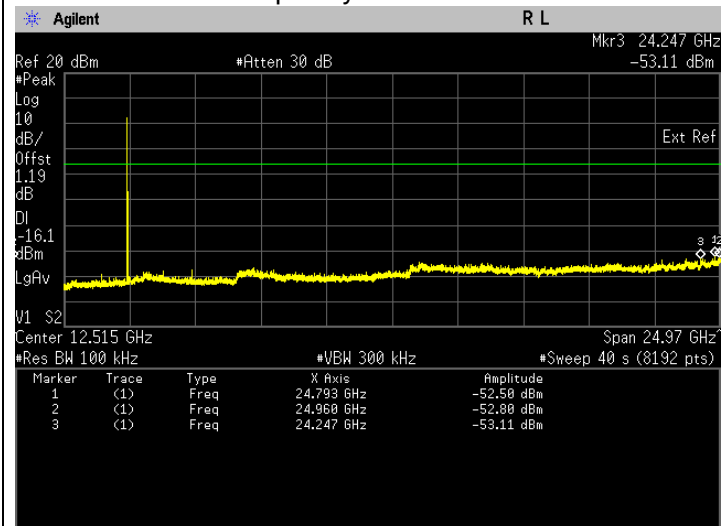
ii. Spurious emission measurement in 30MHz — 25GHz at low carrier frequency.



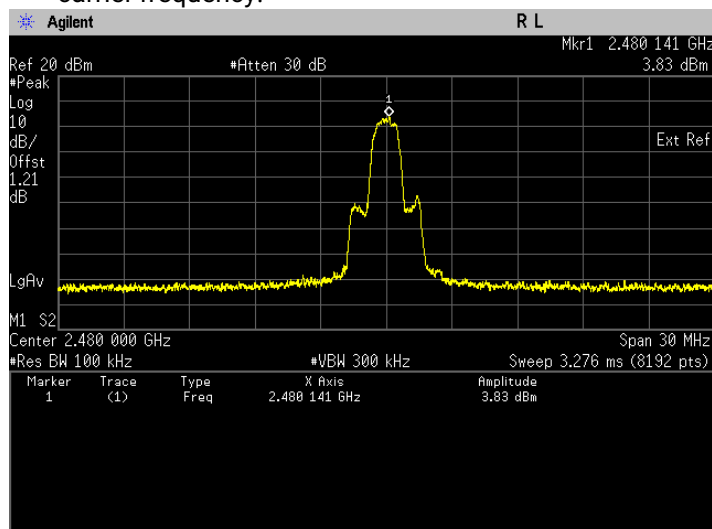
iii. The high emission level within the assigned band at mid carrier frequency.



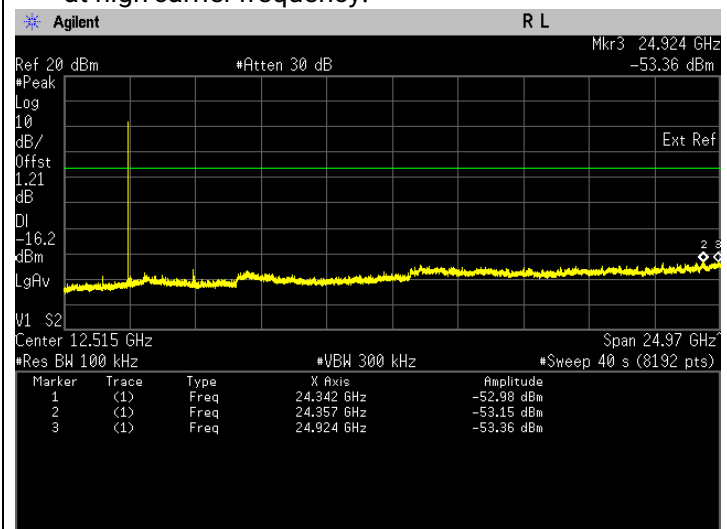
iv. Spurious emission measurement in 30MHz — 25GHz at mid carrier frequency.



v. The high emission level within the assigned band at high carrier frequency.

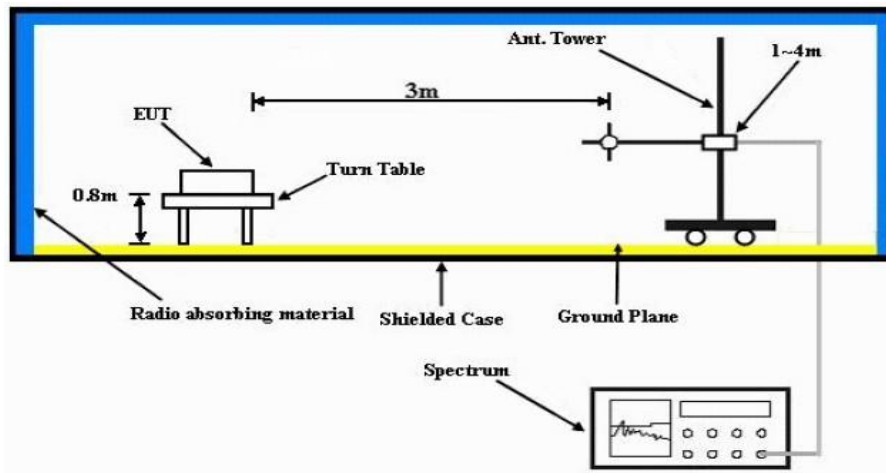


vi. Spurious emission measurement in 30MHz — 25GHz at high carrier frequency.



6.8. Radiated Emission within restricted Bands

6.8.1. Test Setup



- The EUT is placed on the top of a rotating table 0.8m (<1GHz) or 1.5m (>1GHz) above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its 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.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.8.2. Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

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

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Test: Bluetooth SAC Restricted Band Edge

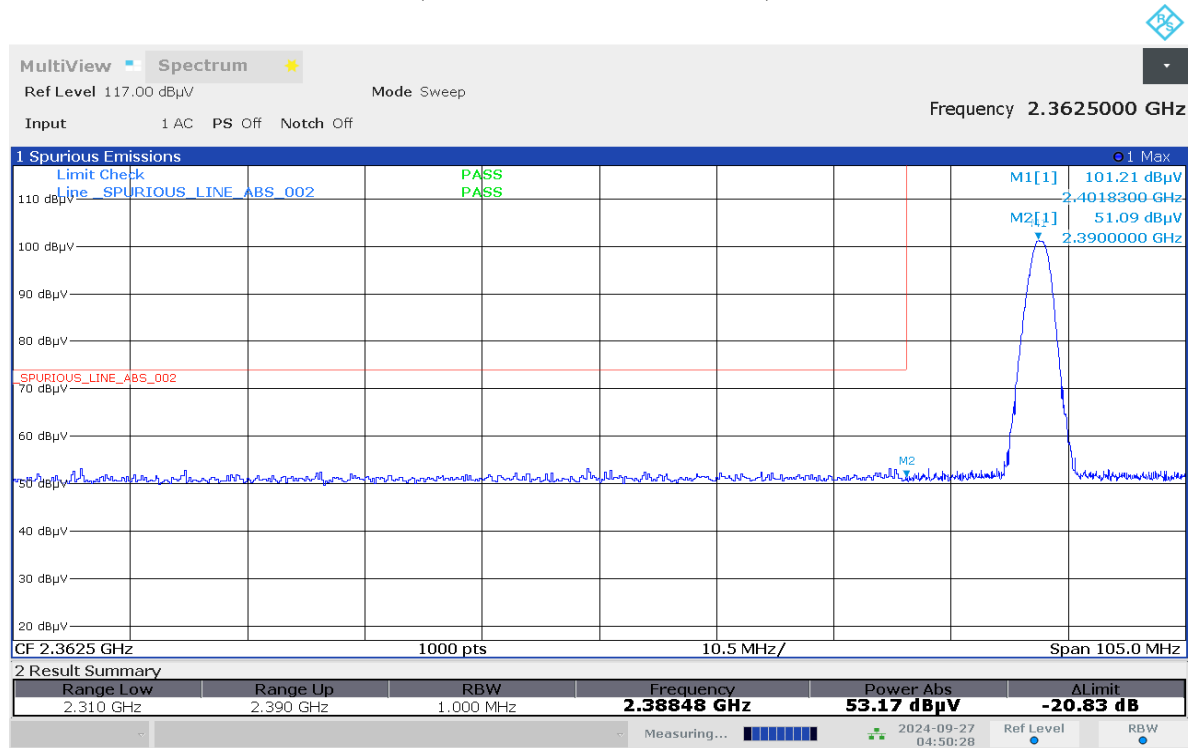
Model Number: B20CJM2BE2AN	S/N: 663EAS0005	EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A	Softpot power (9dBm)	Accessory: NA
Test Channel: Low	Test Frequency: 2402.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (GFSK)		

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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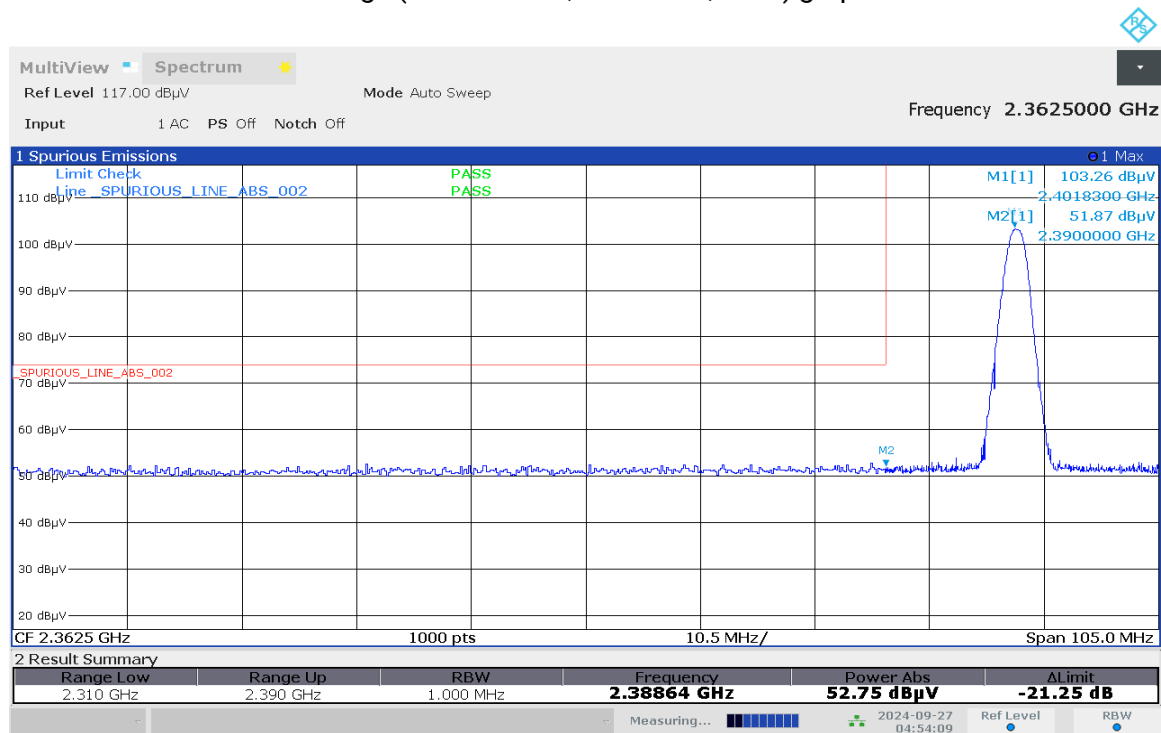
Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



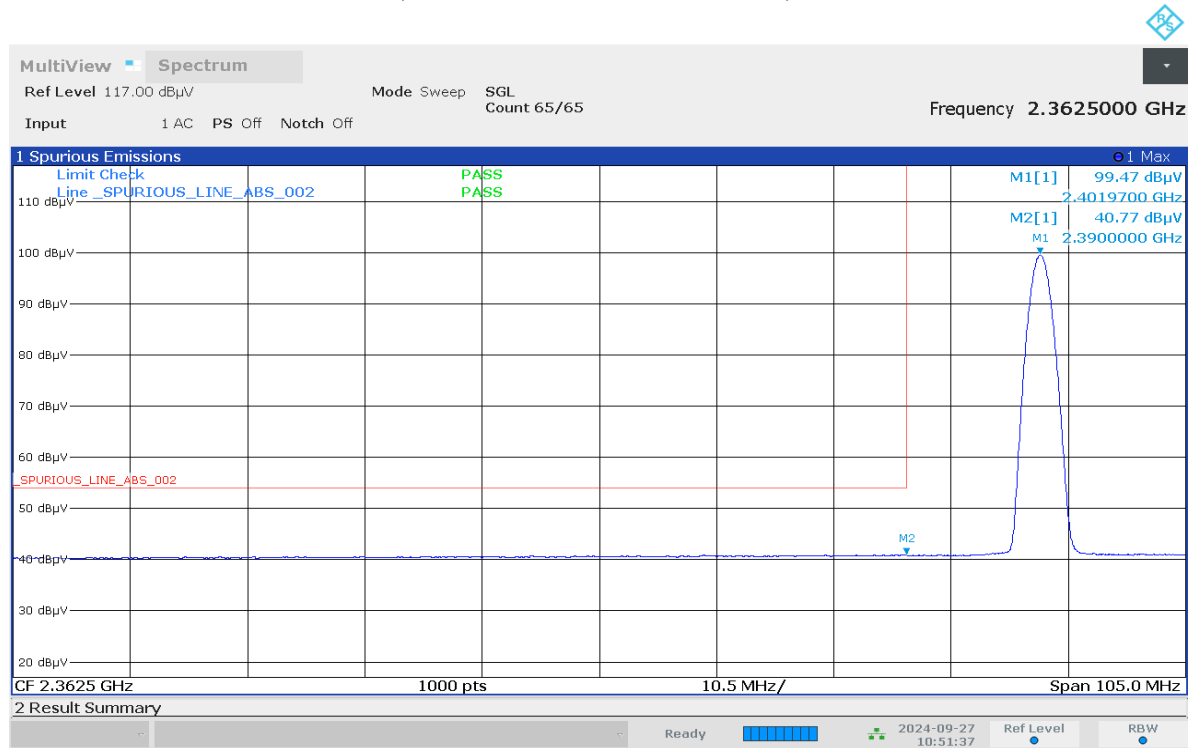
04:50:28 AM 09/27/2024

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



04:54:09 AM 09/27/2024

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



10:51:38 AM 09/27/2024

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



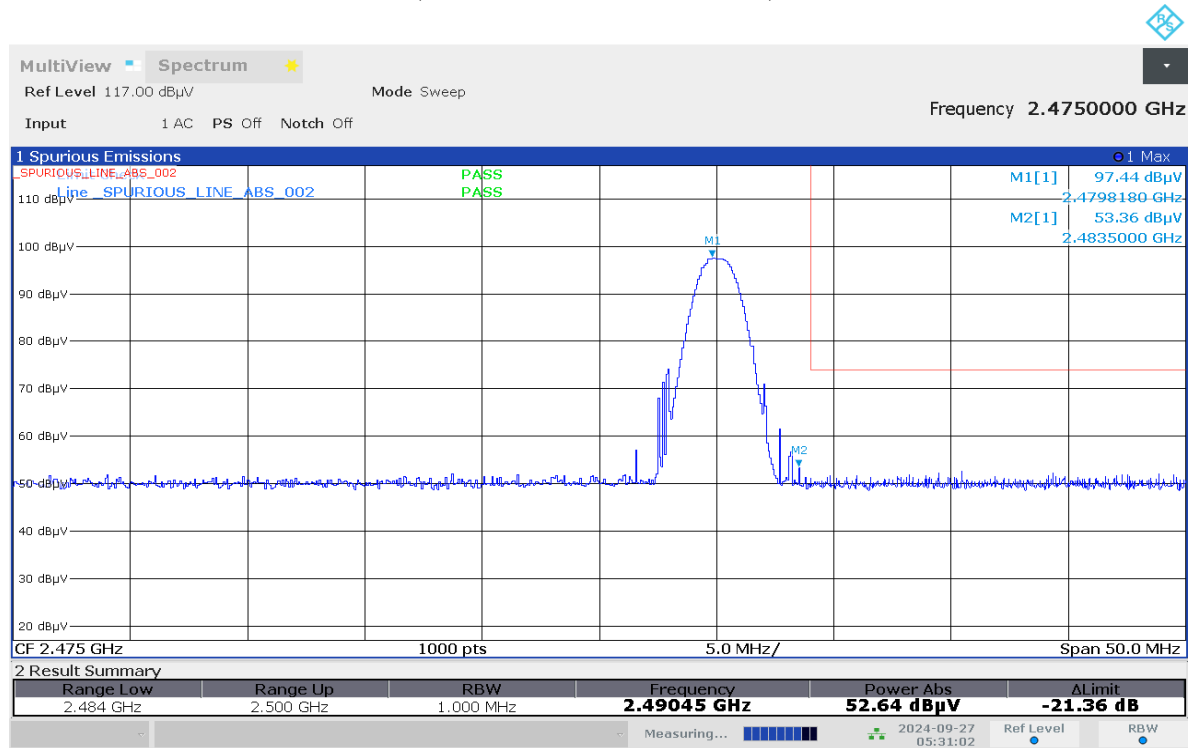
10:55:33 AM 09/27/2024

Restricted Band Edge (High Channel) tabular data

Remarks: Pass Result	Marginal Result	Fail Result
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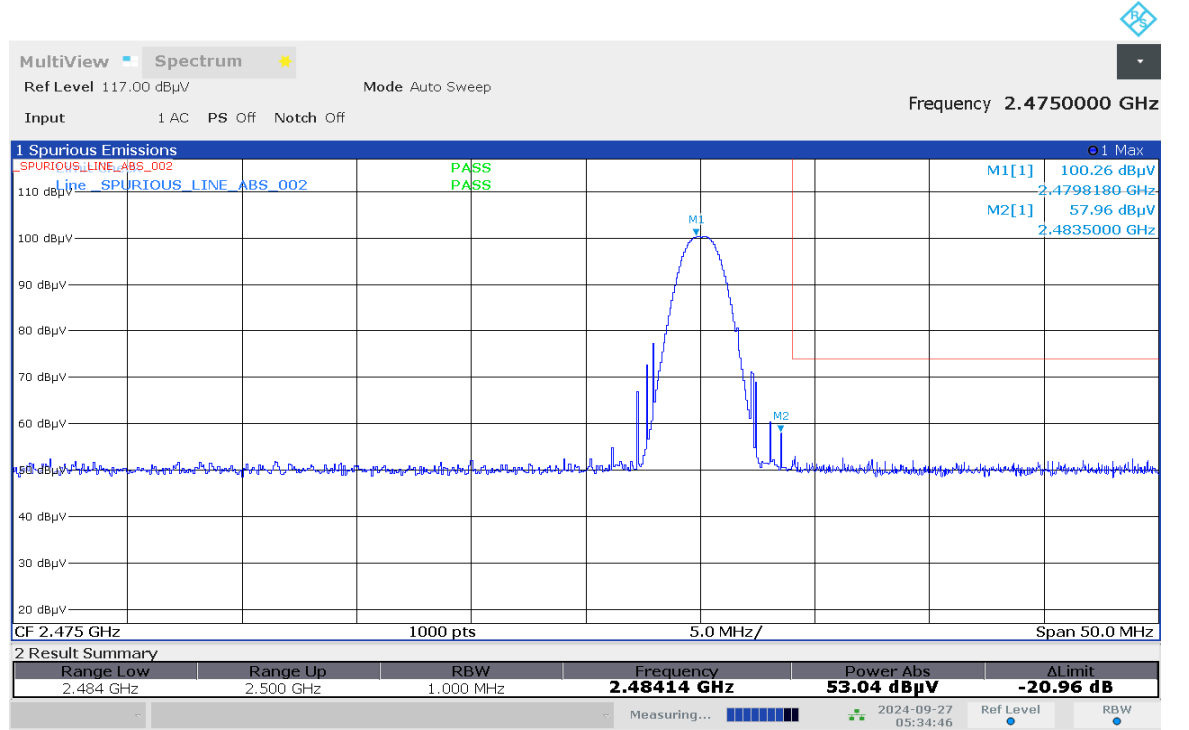
Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



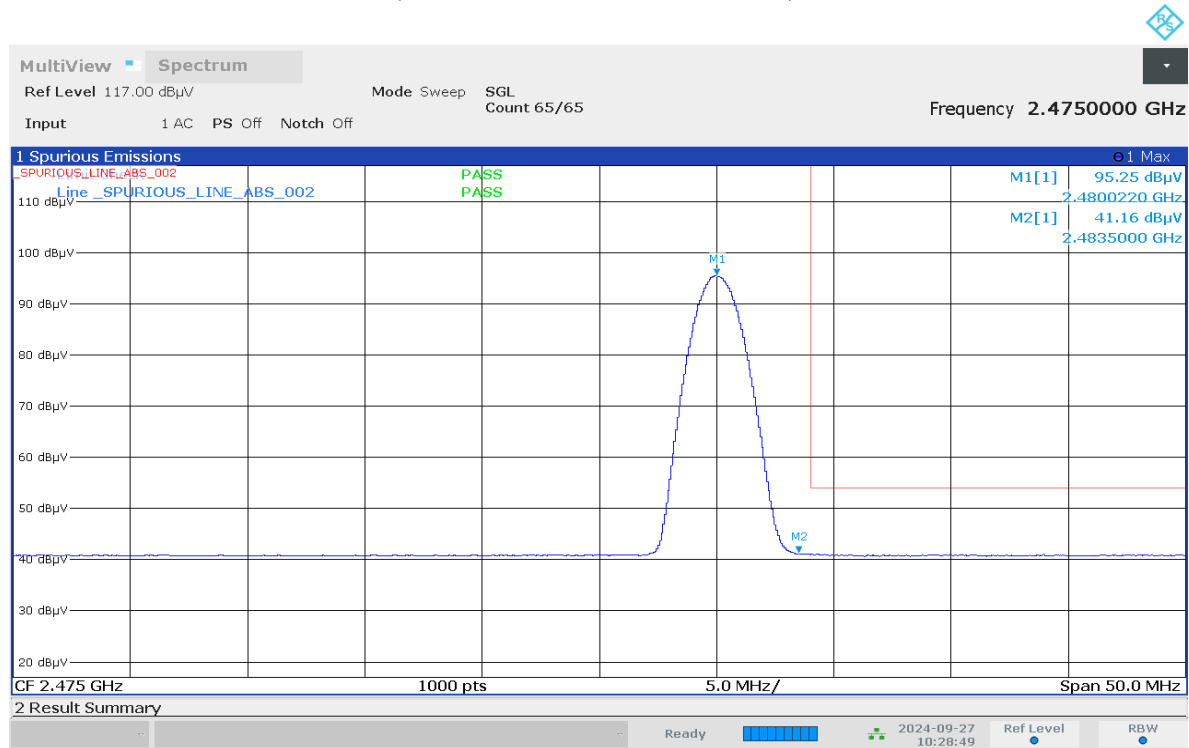
05:31:03 AM 09/27/2024

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot

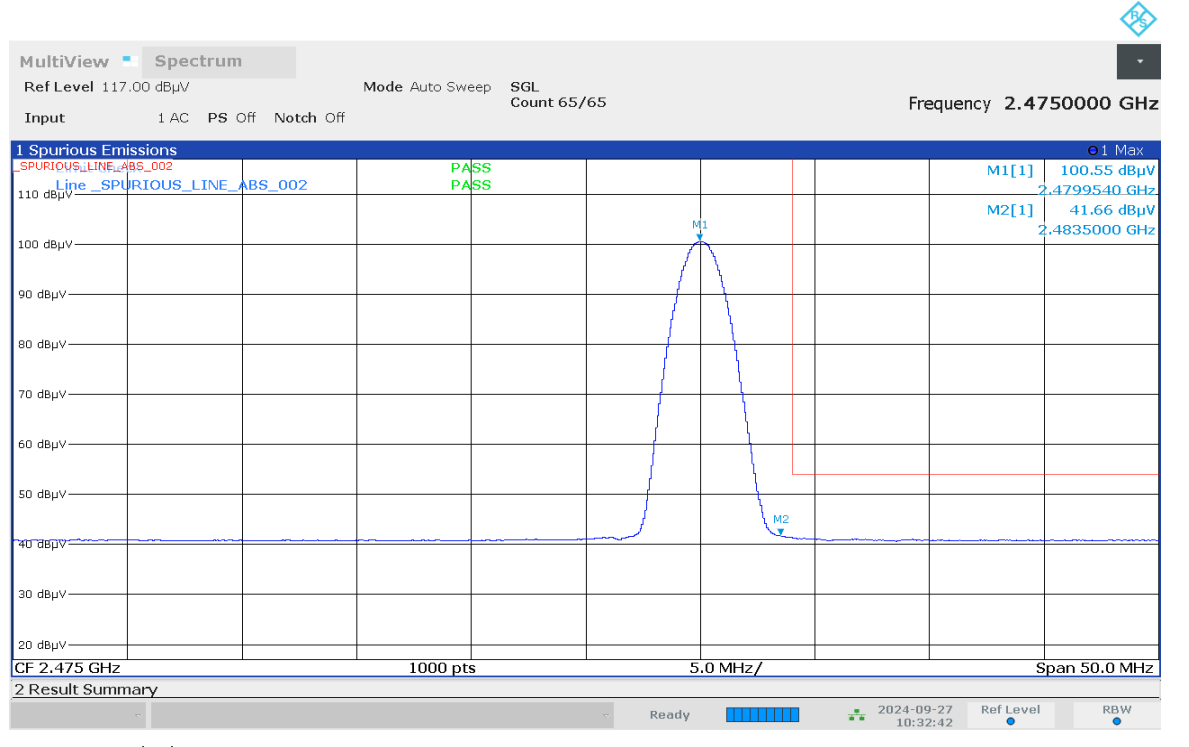


05:34:47 AM 09/27/2024

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



Test: Bluetooth SAC Restricted Band Edge		
Model Number: B20CJM2BE2AN	S/N: 663EAS0005	EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A	Softpot power (9dBm)	Accessory: NA
Test Channel: Low	Test Frequency: 2402.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (DQPSK)		

Restricted Band Edge (Low Channel) tabular data

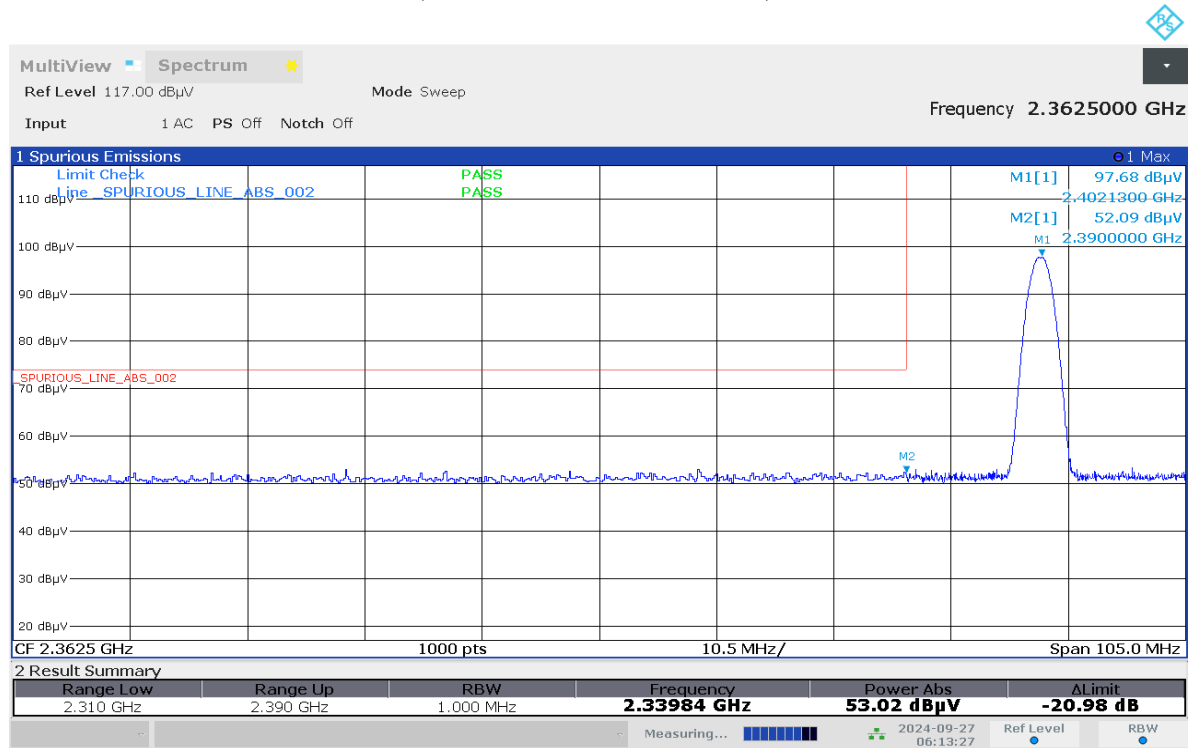
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4
Test Performed by: Nazrin & Fuad
System MU: 5.84dB

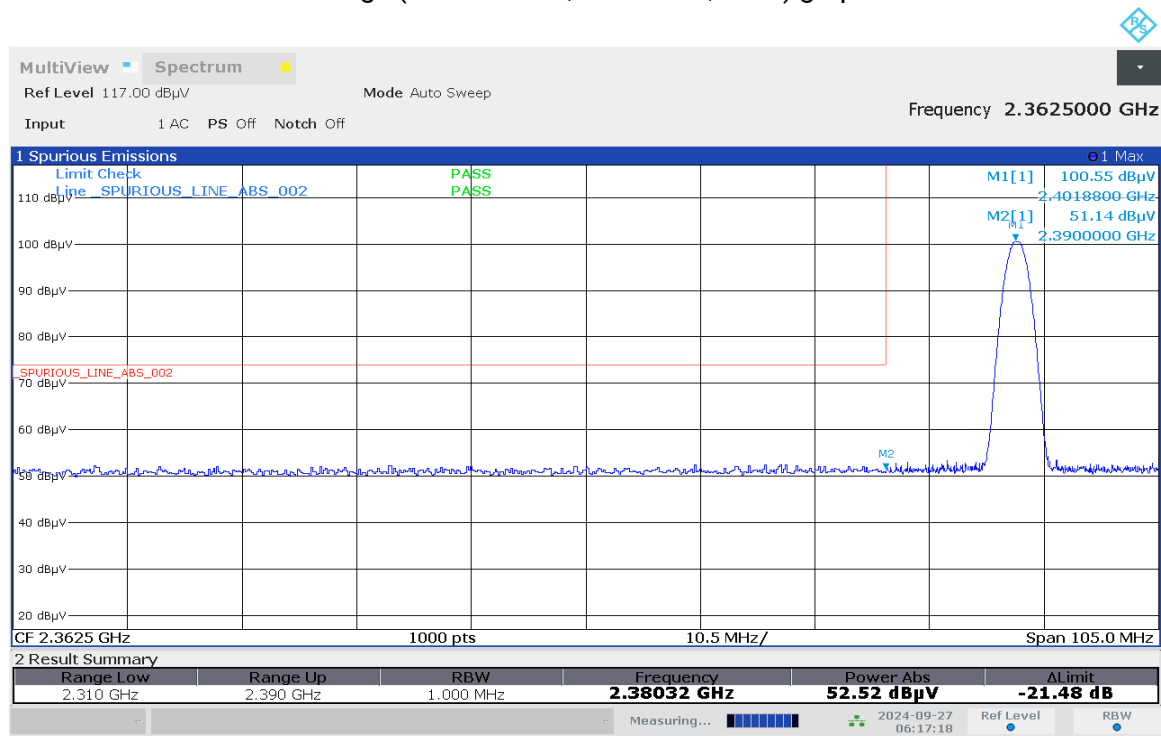
Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



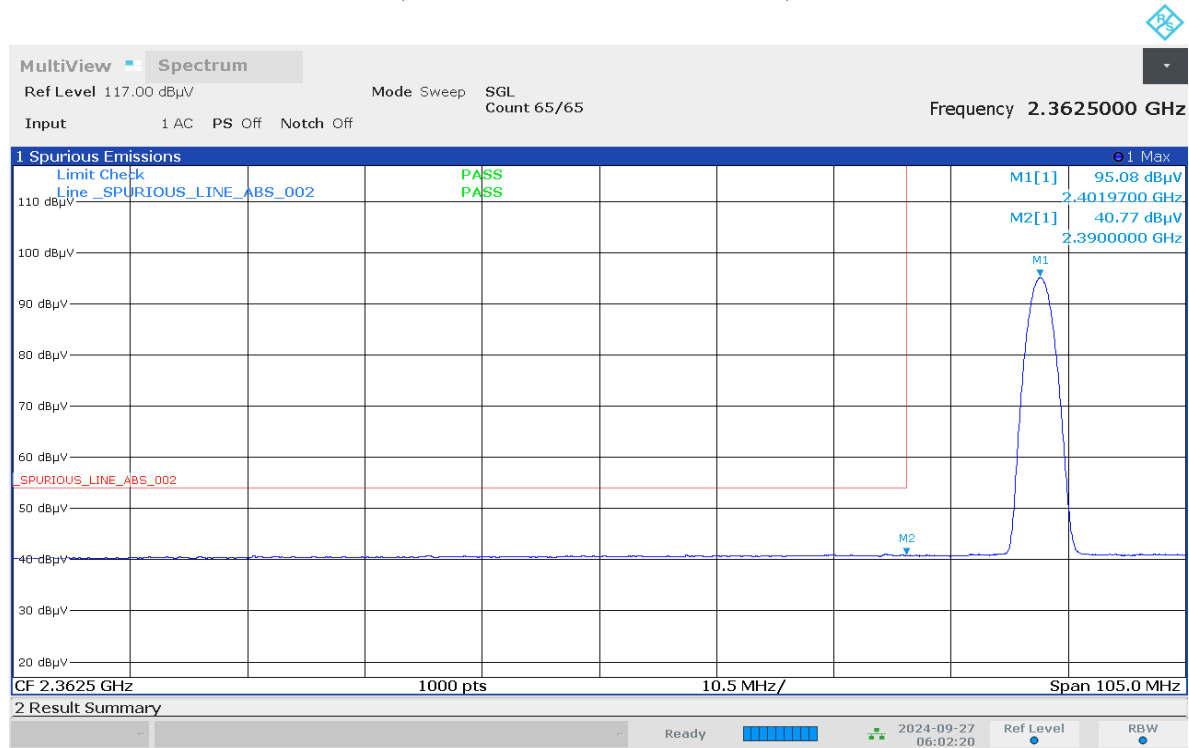
06:13:28 AM 09/27/2024

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



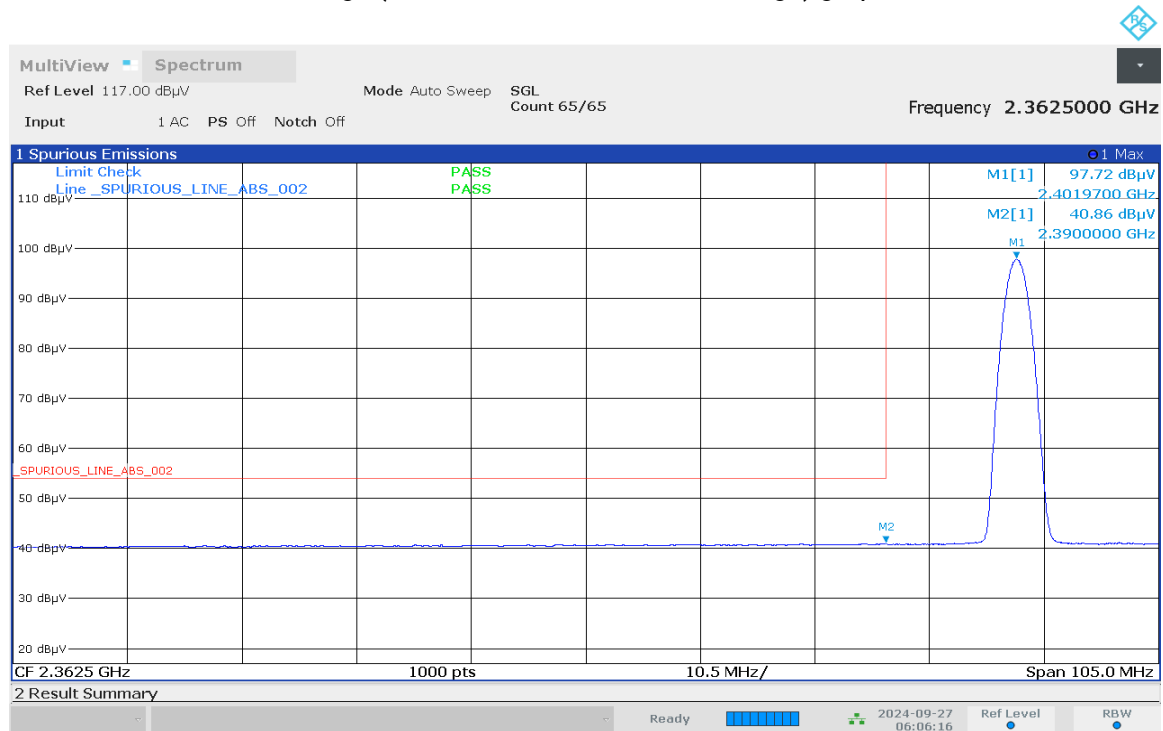
06:17:18 AM 09/27/2024

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



06:02:21 AM 09/27/2024

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



06:06:16 AM 09/27/2024

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A Softpot power (9dBm) Accessory: NA
Test Channel: High Test Frequency: 2480.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (DQPSK)

Restricted Band Edge (High Channel) tabular data

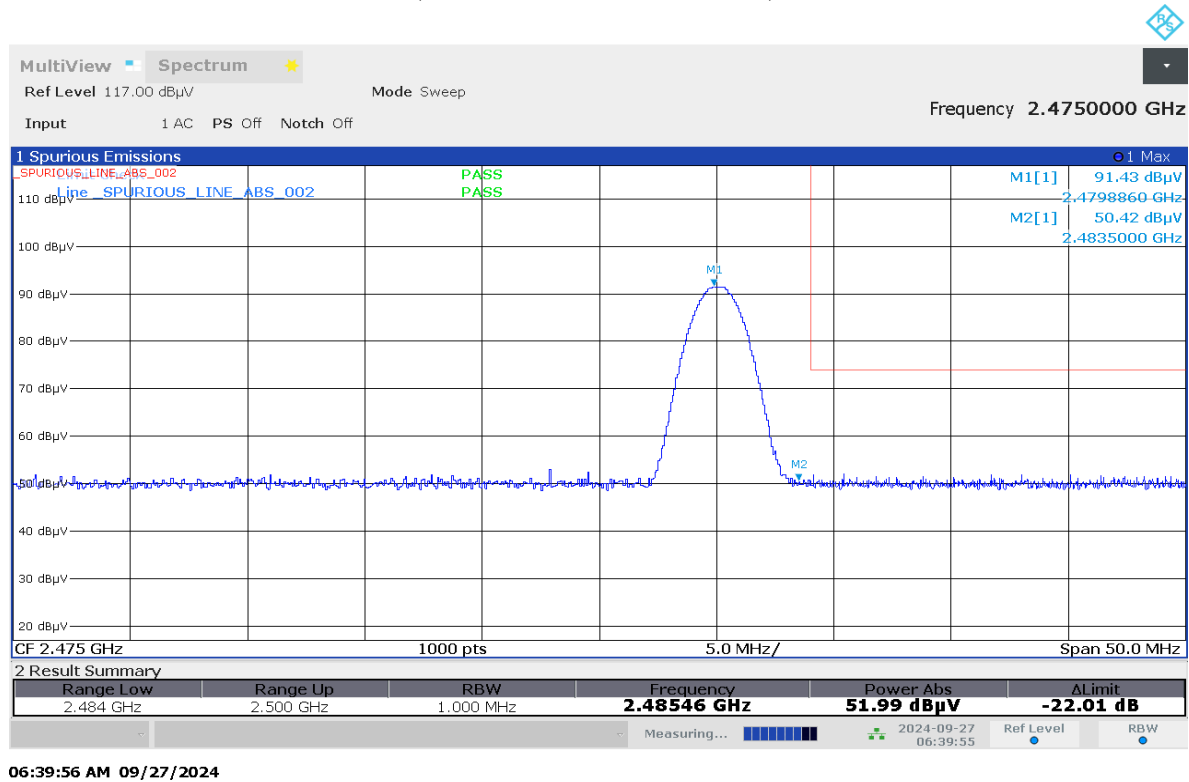
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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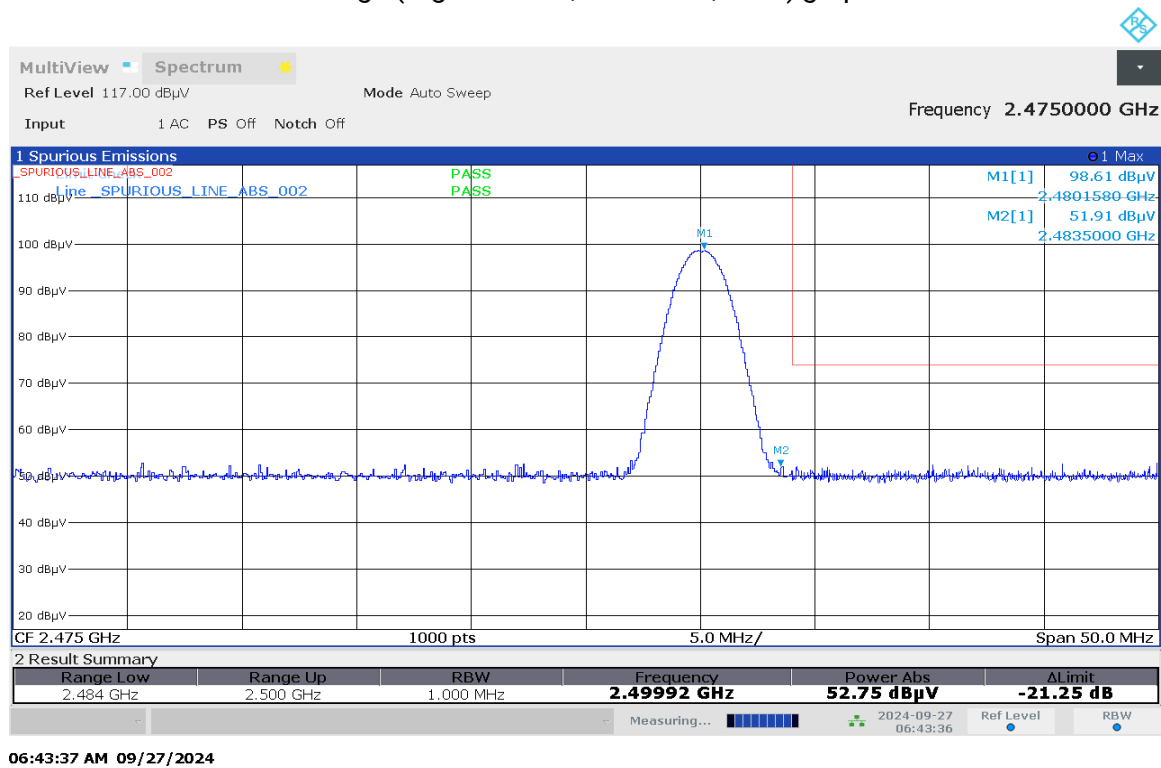
Temperature (degC): 22.4
Test Performed by: Nazrin & Fuad
System MU: 5.84dB

Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

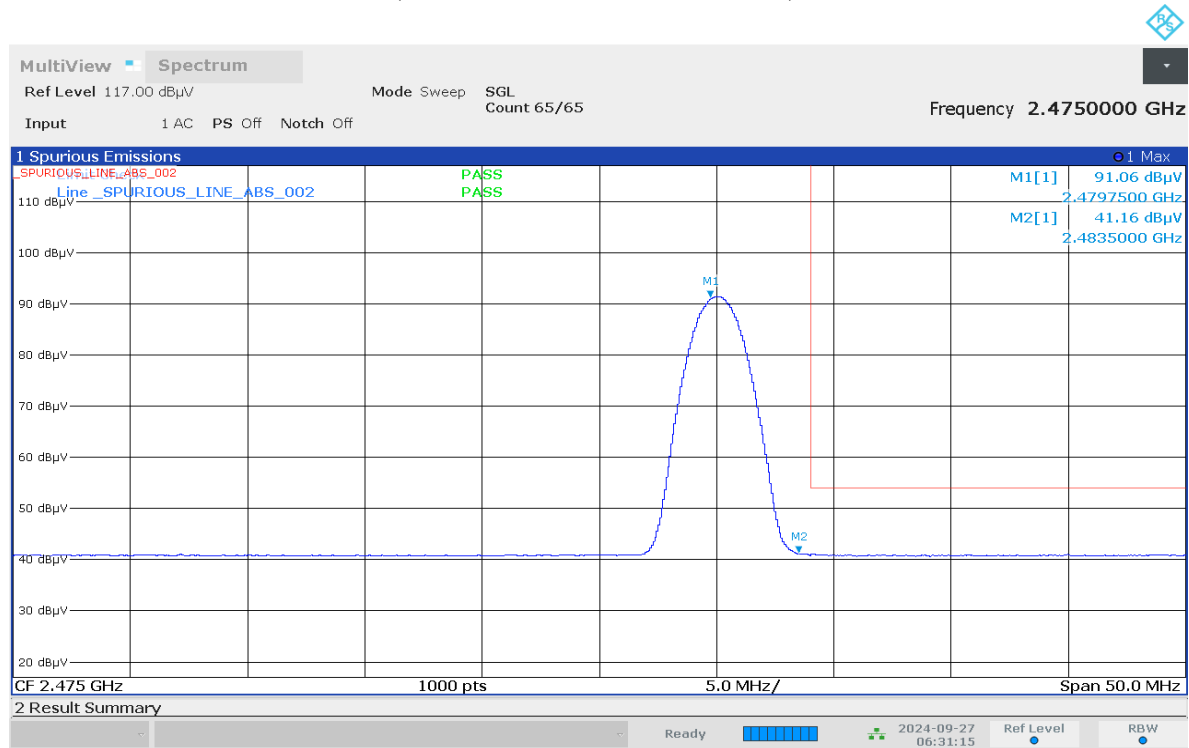
Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot

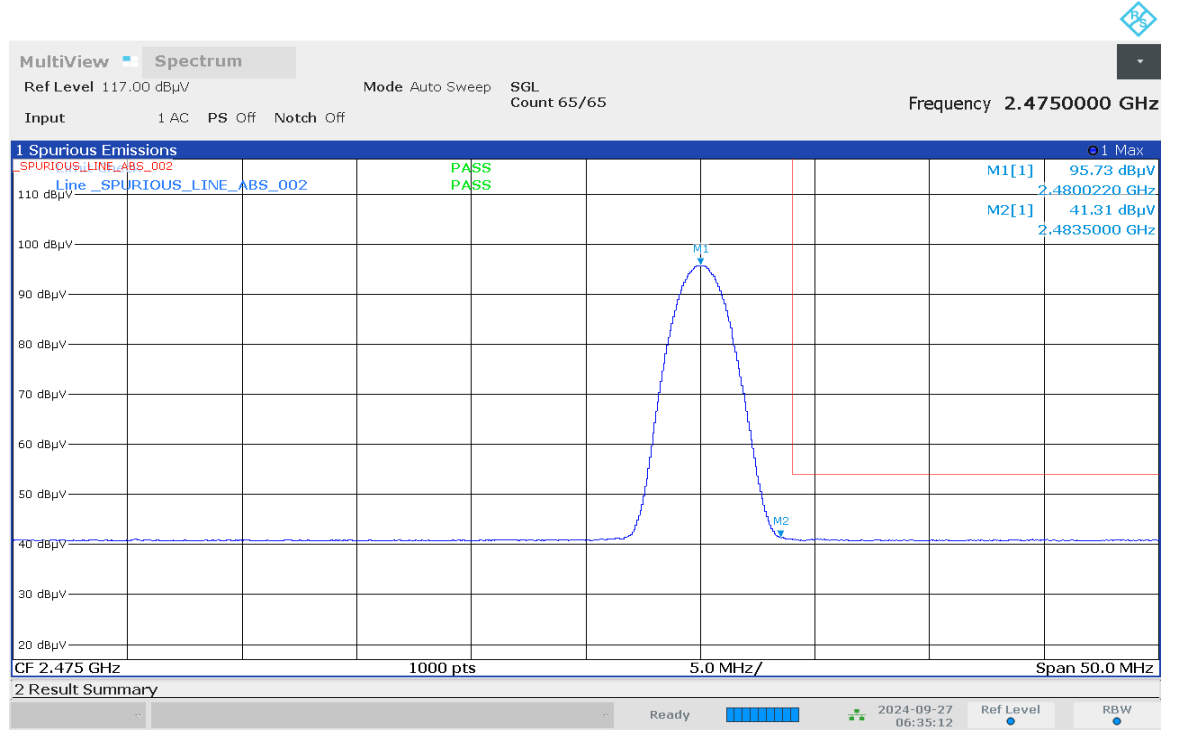


Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



06:31:16 AM 09/27/2024

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



06:35:12 AM 09/27/2024

Test: Bluetooth SAC Restricted Band Edge		
Model Number: B20CJM2BE2AN	S/N: 663EAS0005	EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A	Softpot power (9dBm)	Accessory: NA
Test Channel: Low	Test Frequency: 2402.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (8DPSK)		

Restricted Band Edge (Low Channel) tabular data

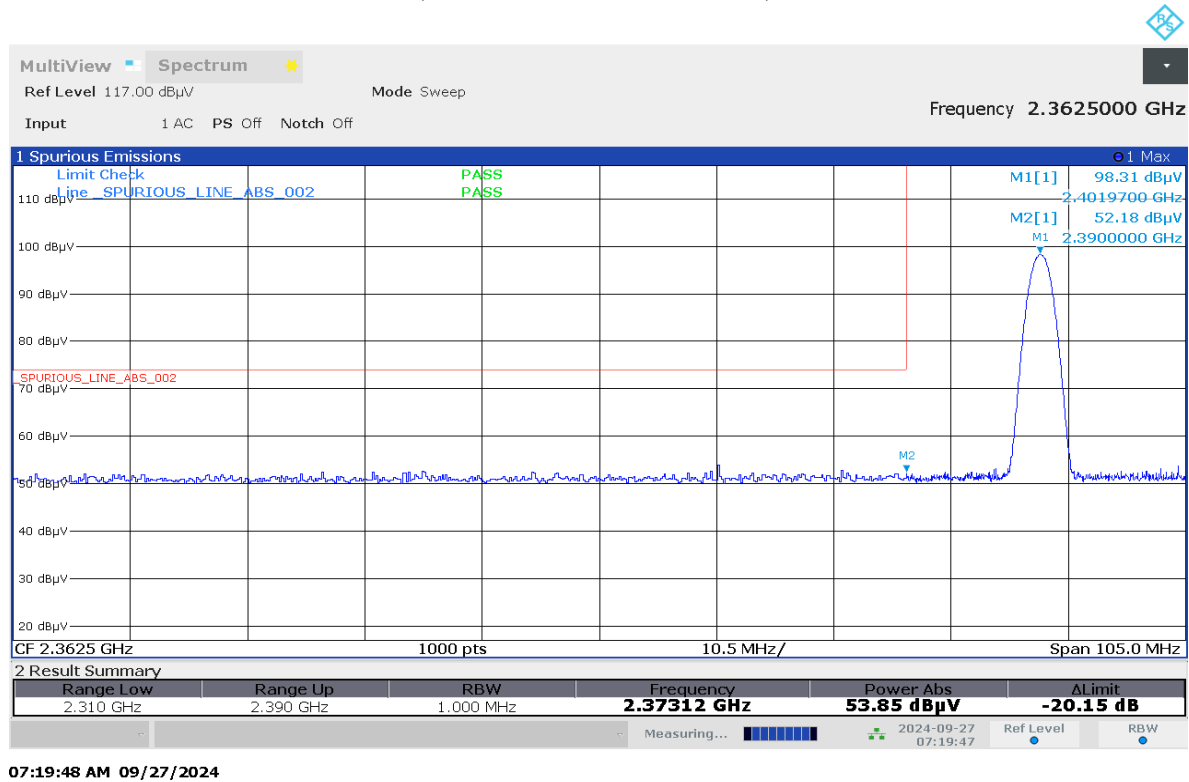
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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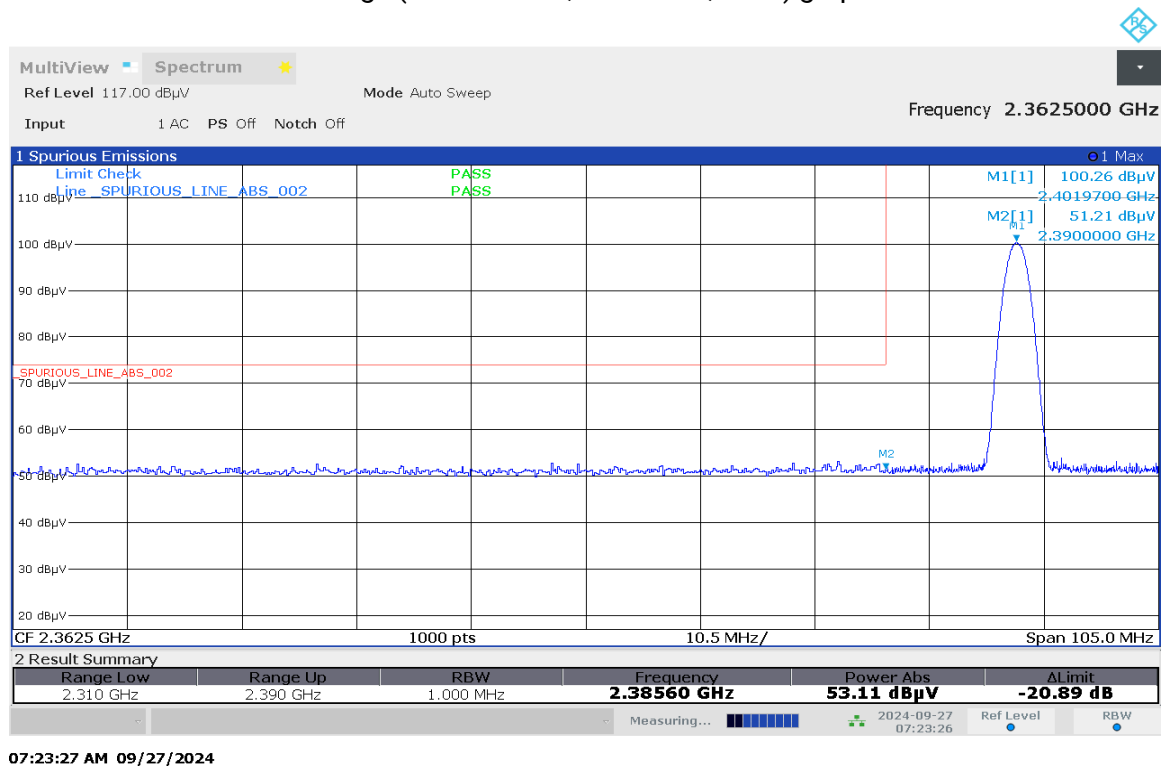
Temperature (degC): 22.4
Test Performed by: Nazrin & Fuad
System MU: 5.84dB

Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

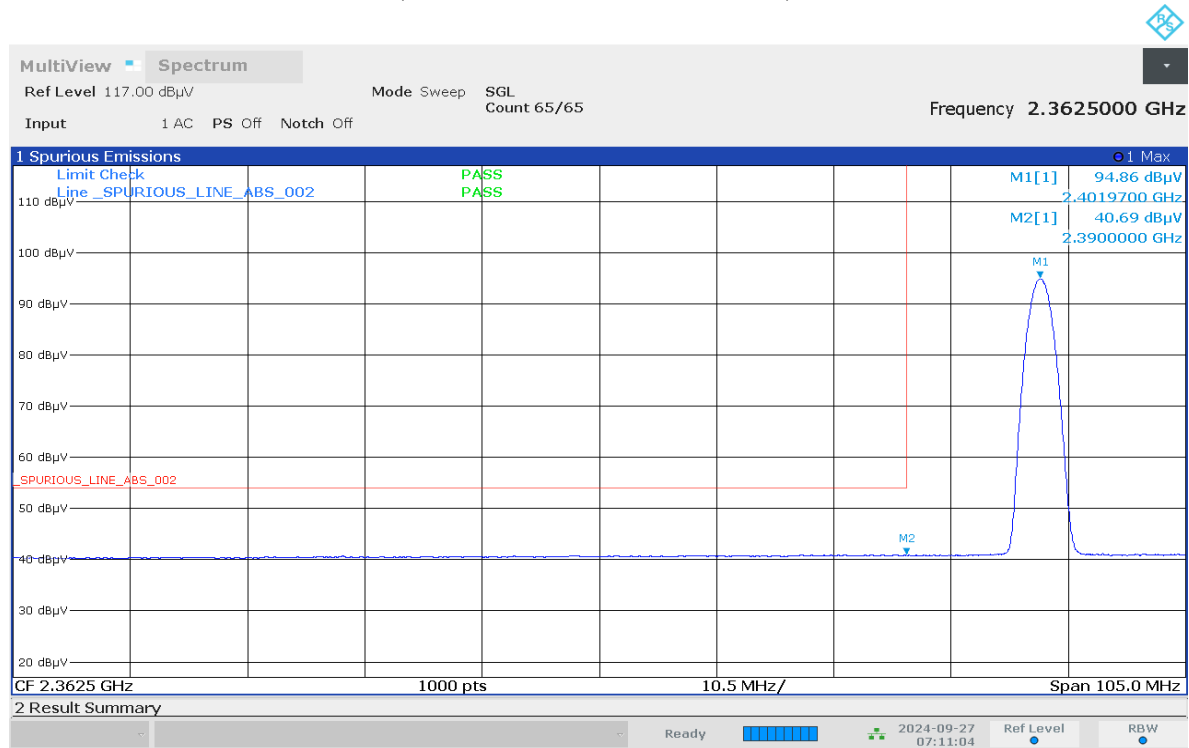
Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot

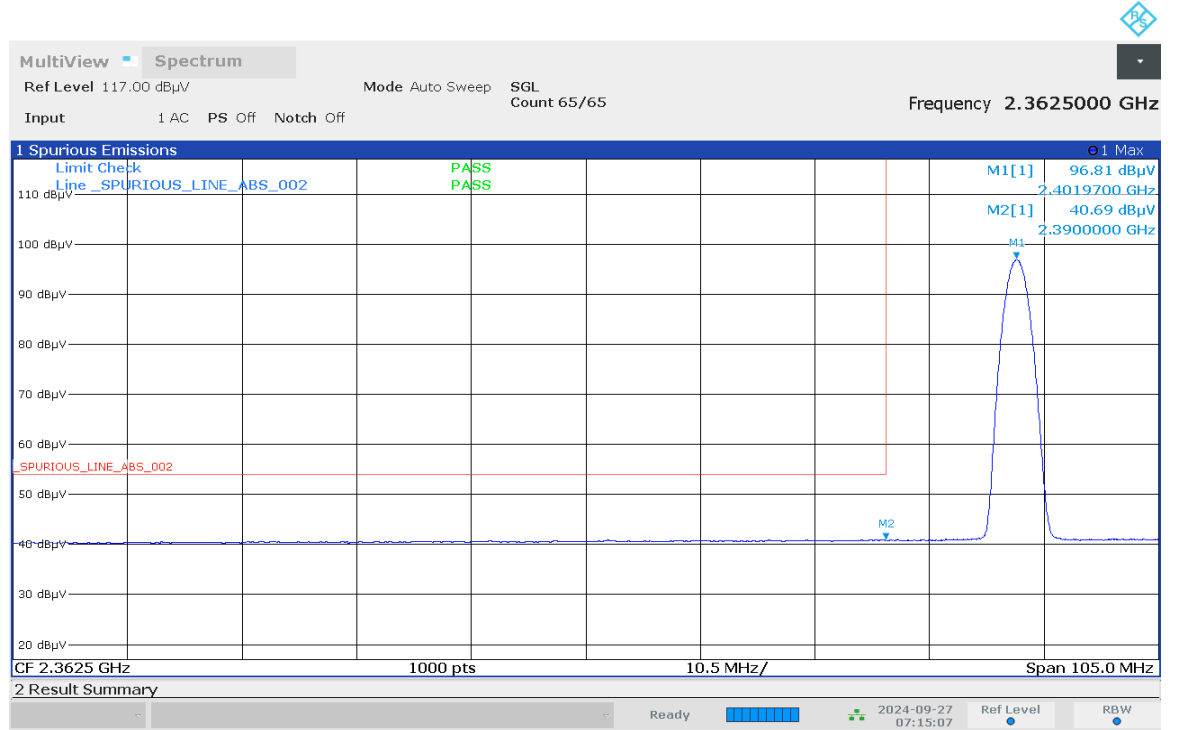


Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



07:11:05 AM 09/27/2024

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



07:15:07 AM 09/27/2024

Test: Bluetooth SAC Restricted Band Edge

Model Number: B20CJM2BE2AN	S/N: 663EAS0005	EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A	Softpot power (9dBm)	Accessory: NA
Test Channel: High	Test Frequency: 2480.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (8DPSK)		

Restricted Band Edge (High Channel) tabular data

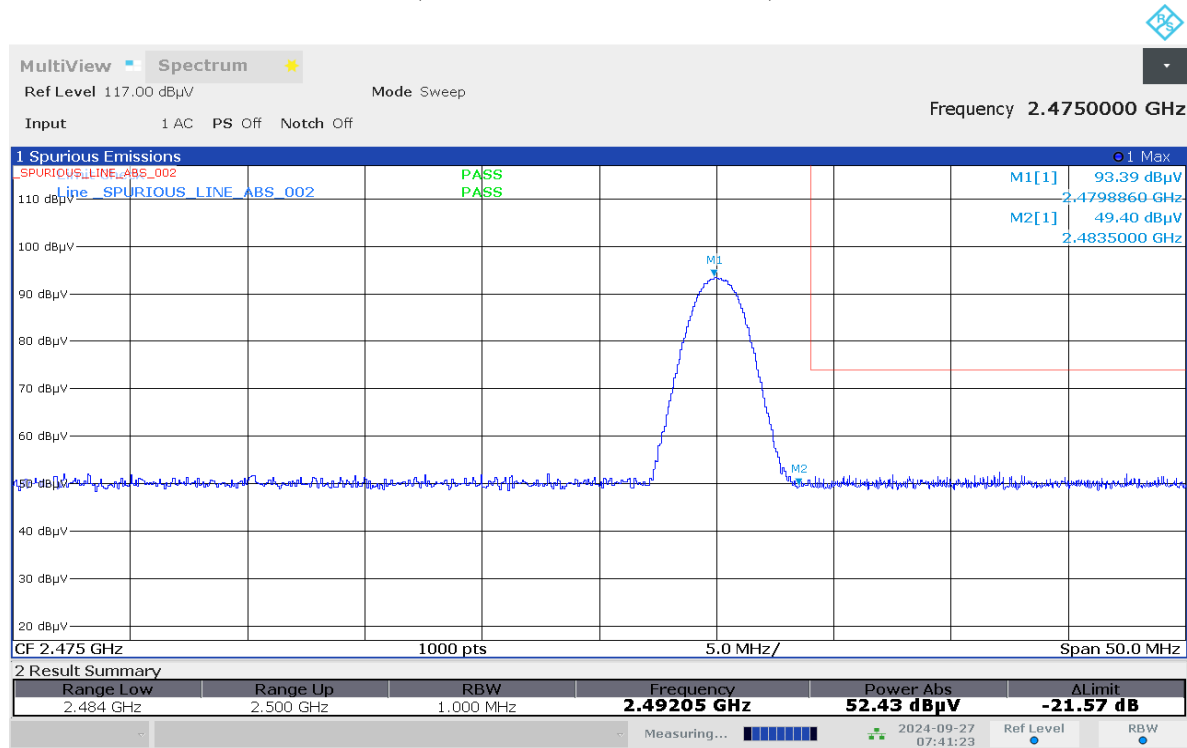
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4
Test Performed by: Nazrin & Fuad
System MU: 5.84dB

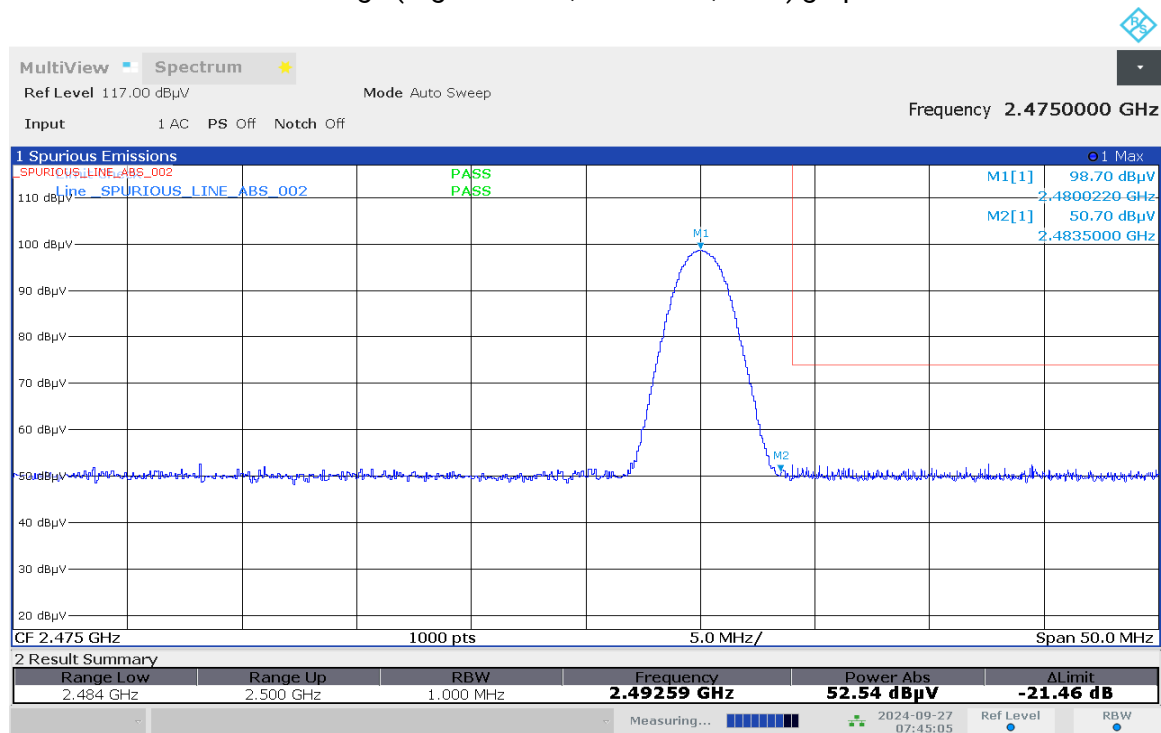
Humidity (%): 67.9
Test Date: Sat, 28 Sep, 2024

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



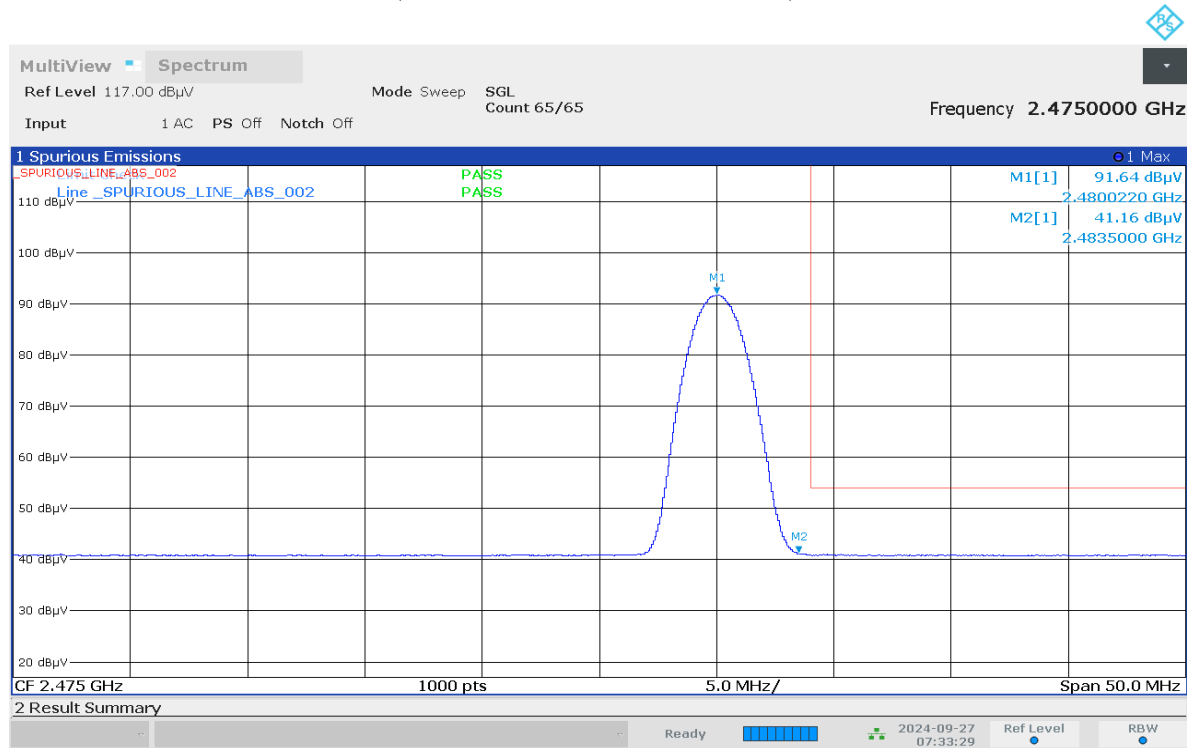
07:41:23 AM 09/27/2024

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



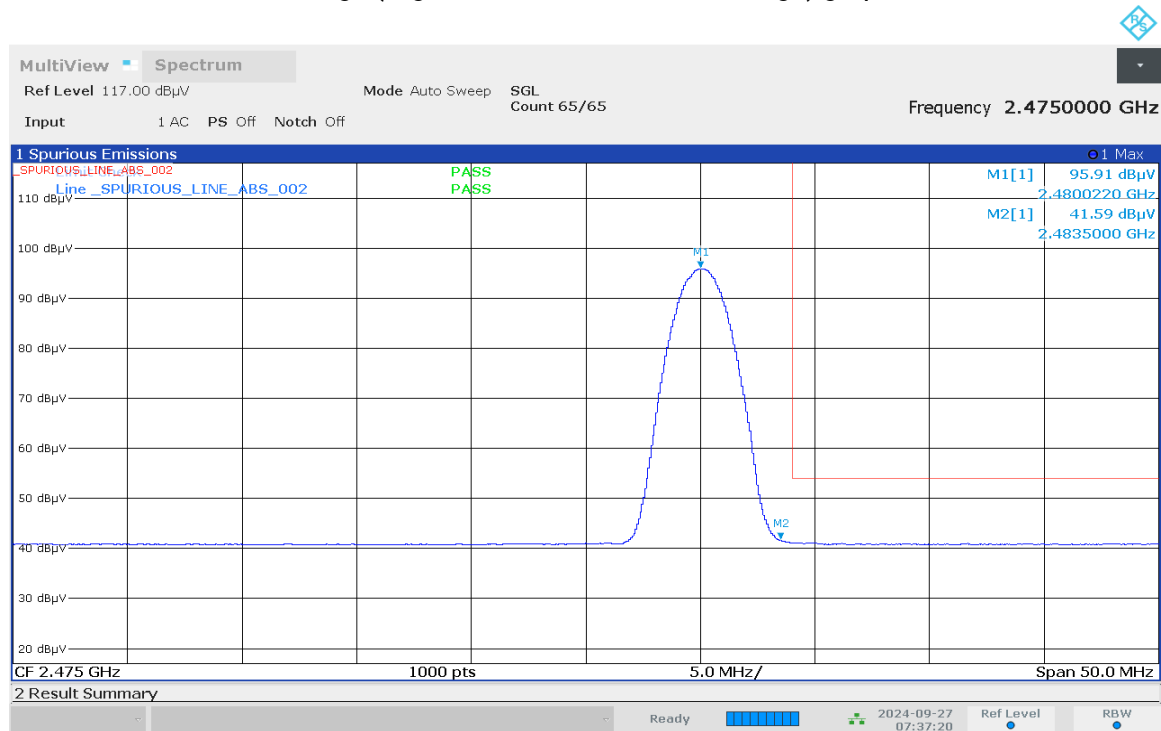
07:45:06 AM 09/27/2024

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



07:33:30 AM 09/27/2024

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



07:37:20 AM 09/27/2024

Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014
 Battery: PMNN4578A Softpot power (9dBm) Accessory: NA
 Test Channel: Low Test Frequency: 2402.0000 MHz Test Standard: ANSI C63.10-2013
 Worst Case Plane: Z-Plane (GFSK)

Radiated Emission (Low Channel) tabular data

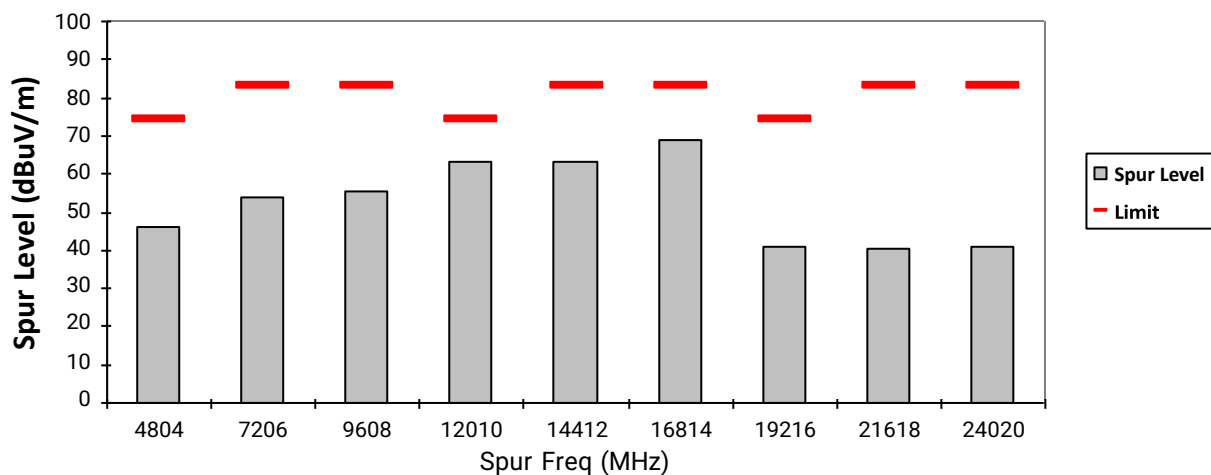
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
4804	-	46.1554**	-	-	74.0000	-	-	27.8446	-	-
7206	-	54.0114**	-	-	83.0893	-	-	29.0779	-	103.0893
9608	-	55.4347**	-	-	83.0893	-	-	27.6546	-	103.0893
12010	-	63.4594**	40.9594**	-	74.0000	54.0000	-	10.5406	13.0406	-
14412	-	63.3454**	-	-	83.0893	-	-	19.7439	-	103.0893
16814	-	68.8326**	-	-	83.0893	-	-	14.2567	-	103.0893
19216	-	41.0078**	-	-	74.0000	-	-	32.9922	-	-
21618	-	40.4933**	-	-	83.0893	-	-	42.5960	-	103.0893
24020	-	40.7779**	-	-	83.0893	-	-	42.3114	-	103.0893
Horizontal Radiated Emission Result										
4804	-	48.2401**	-	-	74.0000	-	-	25.7599	-	-
7206	-	52.0089**	-	-	83.0893	-	-	31.0804	-	103.0893
9608	-	54.2735**	-	-	83.0893	-	-	28.8158	-	103.0893
12010	-	63.6338**	41.1338**	-	74.0000	54.0000	-	10.3662	12.8662	-
14412	-	62.9160**	-	-	83.0893	-	-	20.1733	-	103.0893
16814	-	65.1552**	-	-	83.0893	-	-	17.9341	-	103.0893
19216	-	40.3271**	-	-	74.0000	-	-	33.6729	-	-
21618	-	41.7147**	-	-	83.0893	-	-	41.3746	-	103.0893
24020	-	40.7646**	-	-	83.0893	-	-	42.3247	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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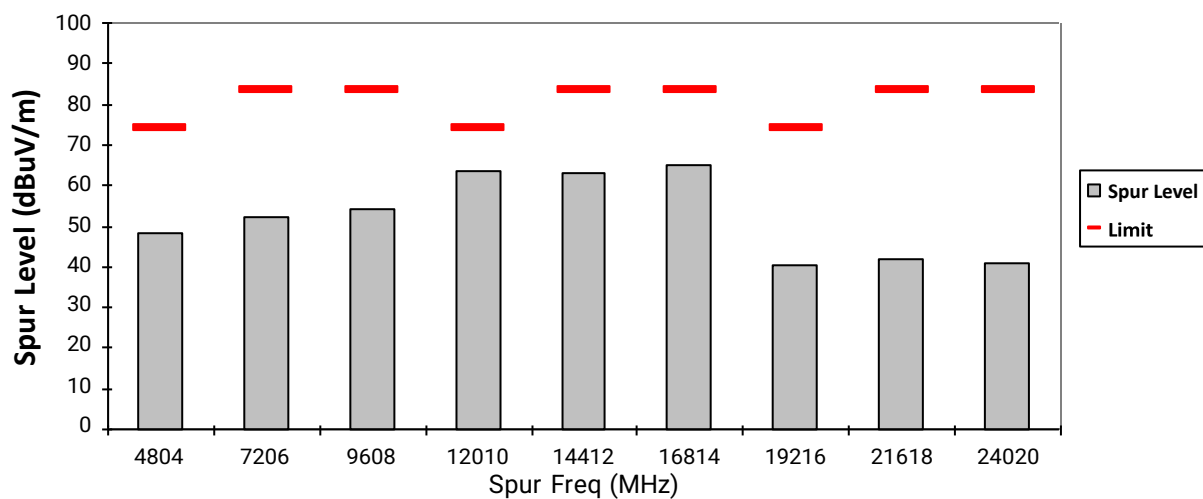
Temperature (degC): 22.4 Humidity (%): 67.9
 Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

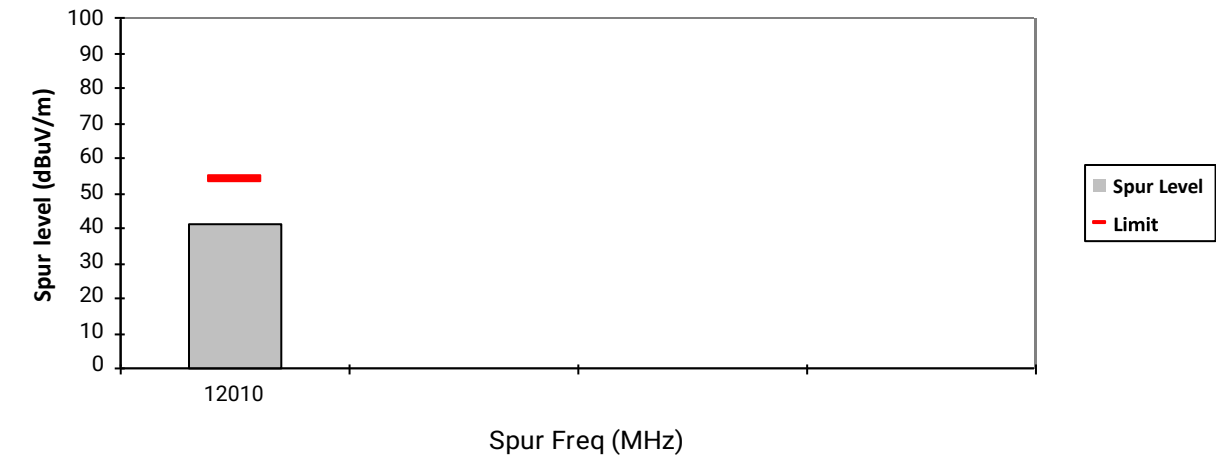
VERTICAL, PK



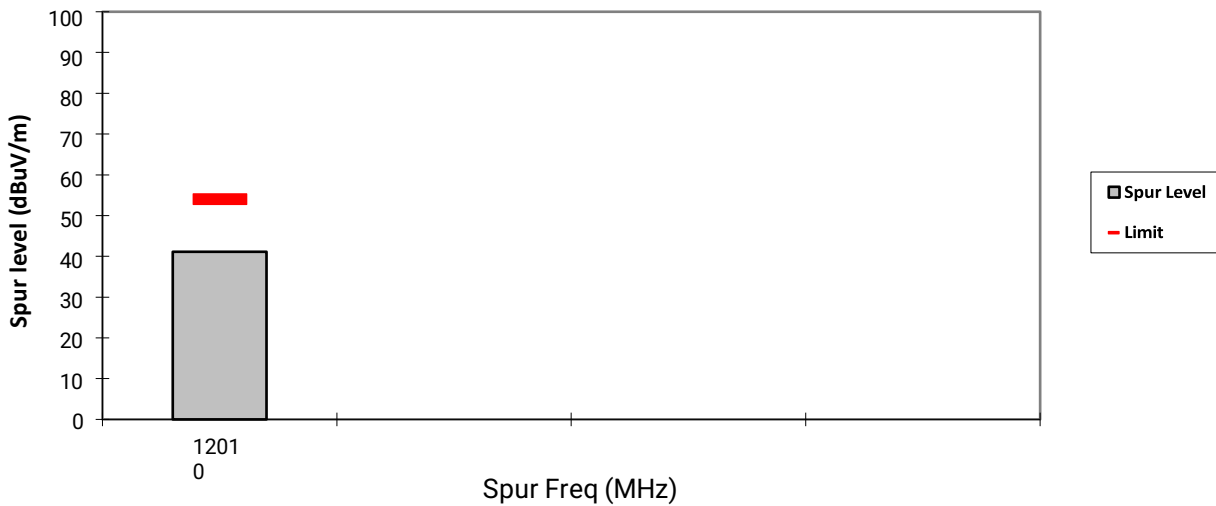
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014

Battery: PMNN4578A Softpot power (9dBm) Accessory: NA

Test Channel: Mid Test Frequency: 2441.0000 MHz Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (GFSK)

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4882	-	47.3629**	-	-	74.0000	-	-	26.6371	-	-
7323	-	56.7819**	34.2819**	-	74.0000	54.0000	-	17.2181	19.7181	-
9764	-	54.8358**	-	-	83.0893	-	-	28.2535	-	103.0893
12205	-	63.4553**	40.9553**	-	74.0000	54.0000	-	10.5447	13.0447	-
14646	-	63.3474**	-	-	83.0893	-	-	19.7419	-	103.0893
17087	-	69.2011**	-	-	83.0893	-	-	13.8882	-	103.0893
19528	-	41.0002**	-	-	74.0000	-	-	32.9998	-	-
21969	-	43.3196**	-	-	83.0893	-	-	39.7697	-	103.0893
24410	-	41.6379**	-	-	83.0893	-	-	41.4514	-	103.0893
Horizontal Radiated Emission Result										
4882	-	47.2624**	-	-	74.0000	-	-	26.7376	-	-
7323	-	56.2995**	33.7995**	-	74.0000	54.0000	-	17.7005	20.2005	-
9764	-	55.2175**	-	-	83.0893	-	-	27.8718	-	103.0893
12205	-	63.3027**	40.8027**	-	74.0000	54.0000	-	10.6973	13.1973	-
14646	-	64.1309**	-	-	83.0893	-	-	18.9584	-	103.0893
17087	-	68.9158**	-	-	83.0893	-	-	14.1735	-	103.0893
19528	-	40.7859**	-	-	74.0000	-	-	33.2141	-	-
21969	-	44.3056**	-	-	83.0893	-	-	38.7837	-	103.0893
24410	-	40.8952**	-	-	83.0893	-	-	42.1941	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4 Humidity (%): 67.9

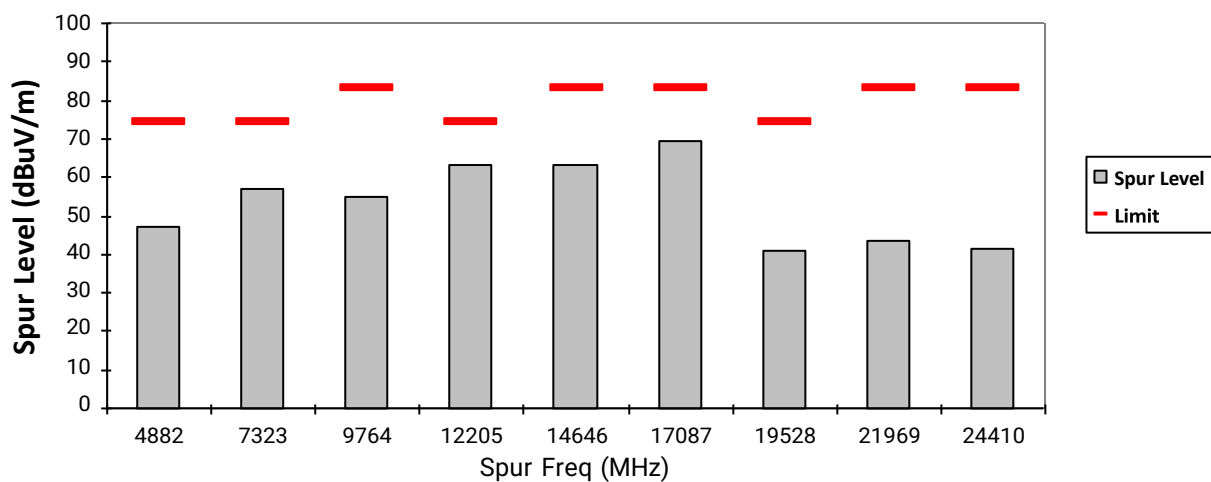
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

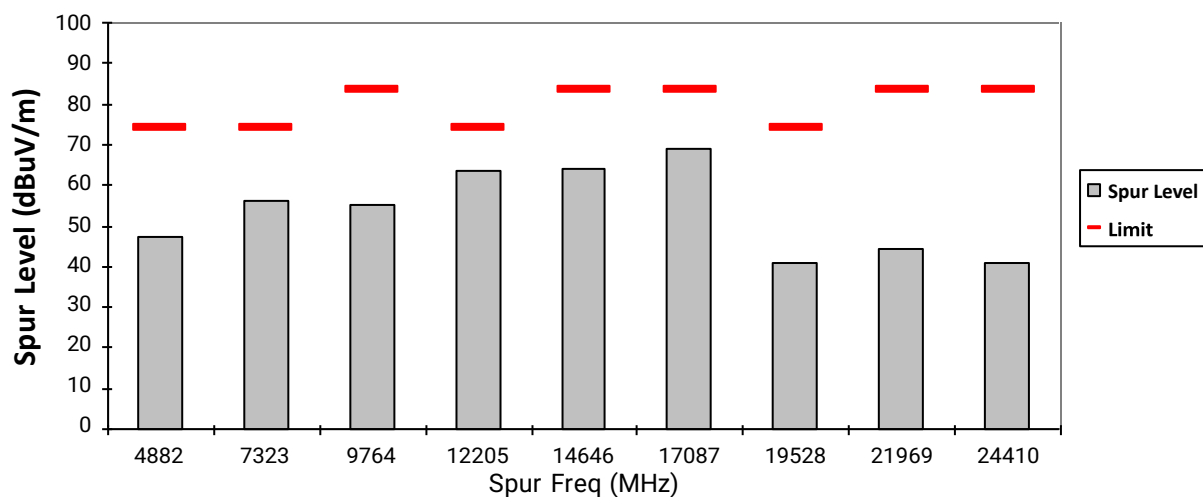
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

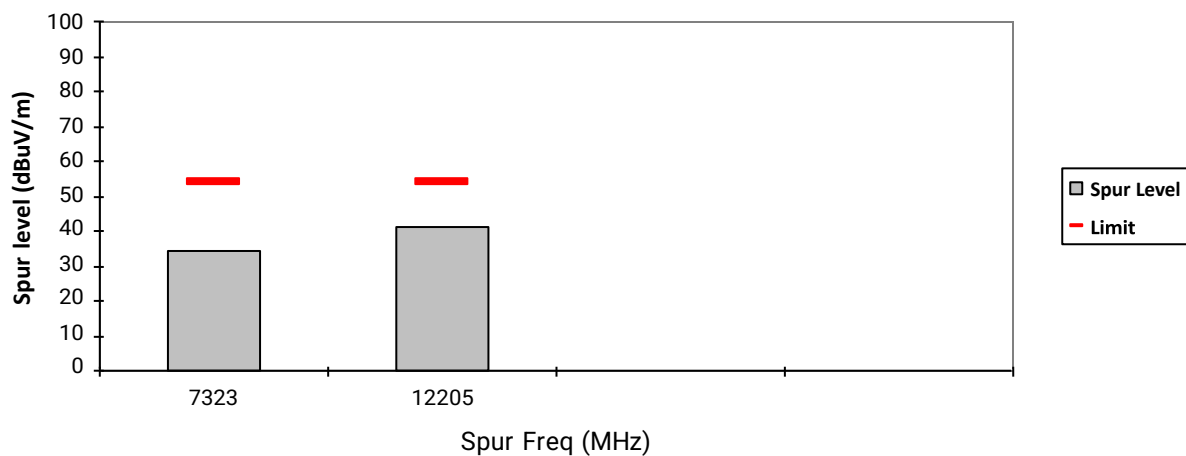
VERTICAL, PK



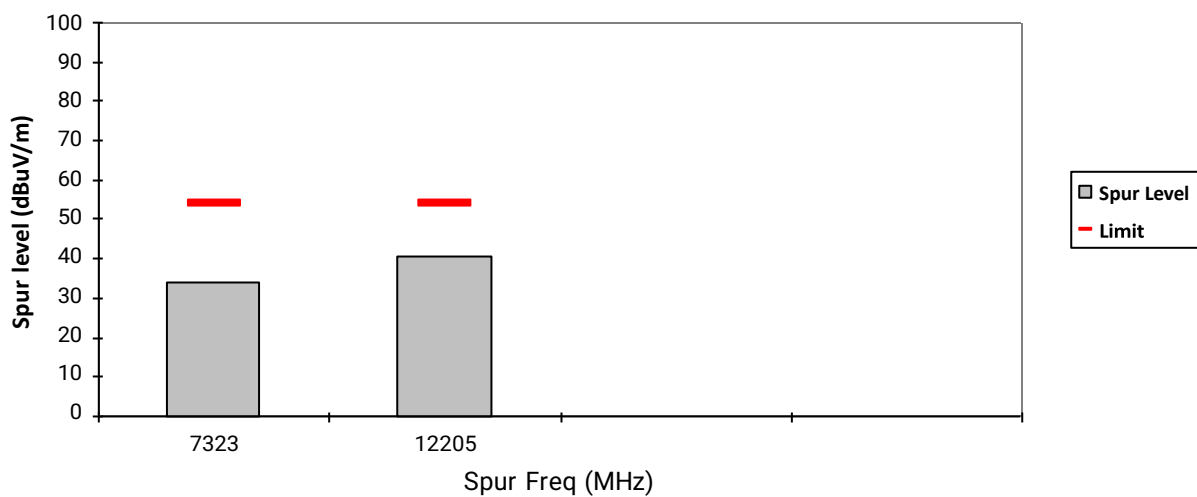
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014

Battery: PMNN4578A Softpot power (9dBm) Accessory: NA

Test Channel: High Test Frequency: 2480.0000 MHz Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (GFSK)

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4960	-	47.6124**	-	-	74.0000	-	-	26.3876	-	-
7440	-	56.6793**	34.1793**	-	74.0000	54.0000	-	17.3207	19.8207	-
9920	-	55.3582**	-	-	83.0893	-	-	27.7311	-	103.0893
12400	-	64.7039**	42.2039**	-	74.0000	54.0000	-	9.2961	11.7961	-
14880	-	64.9141**	-	-	83.0893	-	-	18.1752	-	103.0893
17360	-	69.4511**	-	-	83.0893	-	-	13.6382	-	103.0893
19840	-	40.3906**	-	-	74.0000	-	-	33.6094	-	-
22320	-	41.6517**	-	-	74.0000	-	-	32.3483	-	-
24800	-	41.0452**	-	-	83.0893	-	-	42.0441	-	103.0893
Horizontal Radiated Emission Result										
4960	-	47.5202**	-	-	74.0000	-	-	26.4798	-	-
7440	-	56.4660**	33.9660**	-	74.0000	54.0000	-	17.5340	20.0340	-
9920	-	54.8025**	-	-	83.0893	-	-	28.2868	-	103.0893
12400	-	65.0868**	42.5868**	-	74.0000	54.0000	-	8.9132	11.4132	-
14880	-	63.7690**	-	-	83.0893	-	-	19.3203	-	103.0893
17360	-	69.0258**	-	-	83.0893	-	-	14.0635	-	103.0893
19840	-	40.1729**	-	-	74.0000	-	-	33.8271	-	-
22320	-	40.9703**	-	-	74.0000	-	-	33.0297	-	-
24800	-	40.4719**	-	-	83.0893	-	-	42.6174	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4 Humidity (%): 67.9

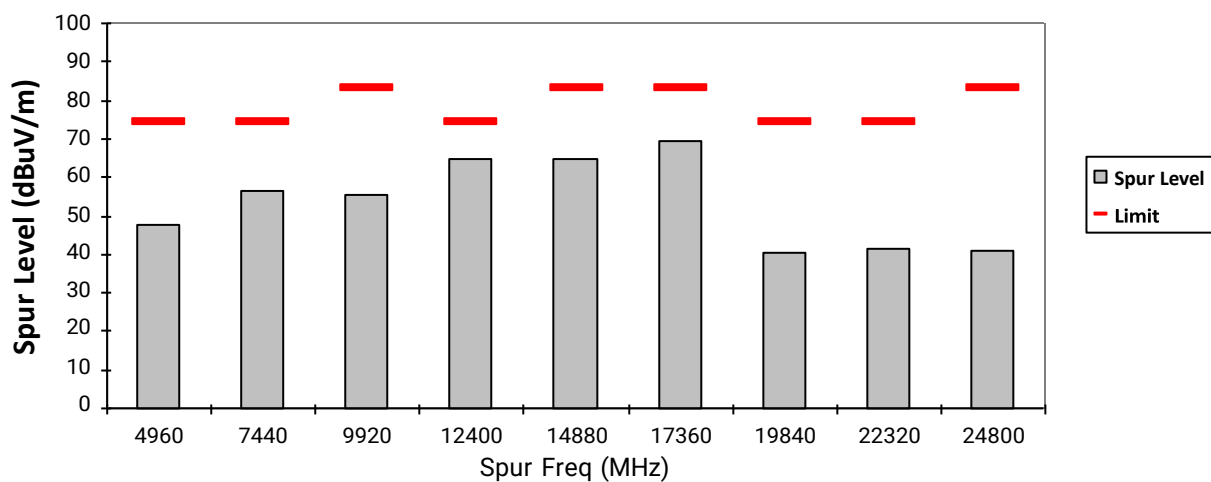
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

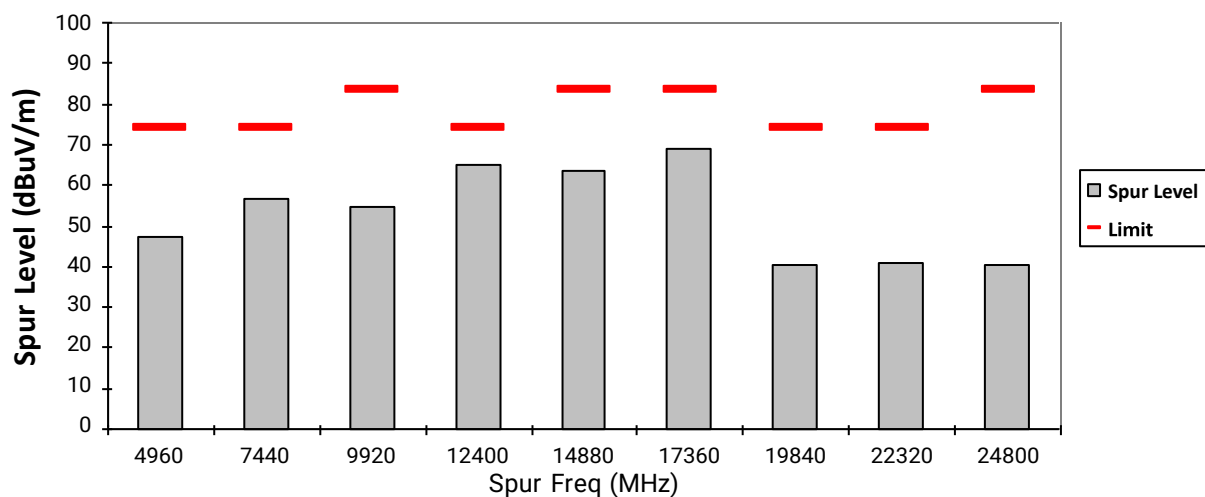
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

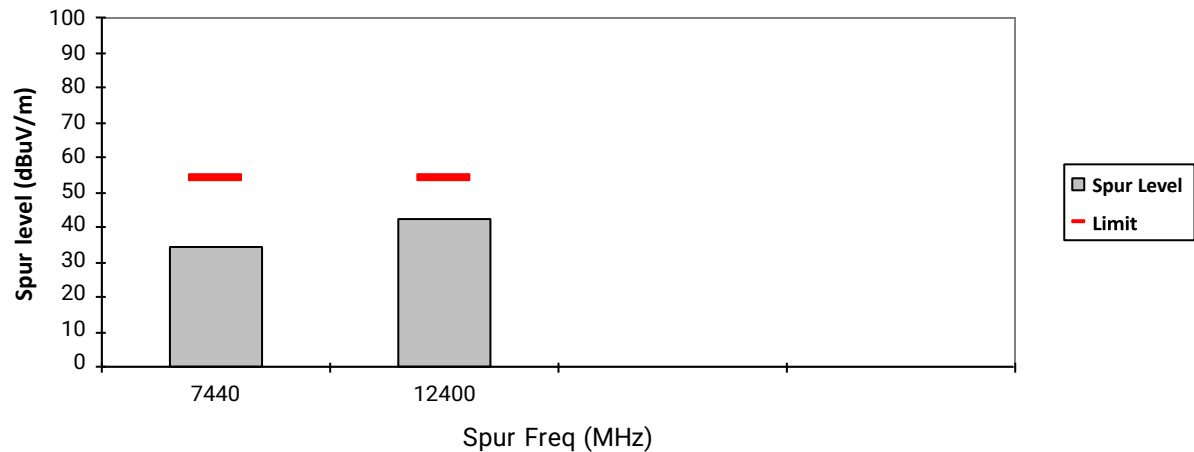
VERTICAL, PK



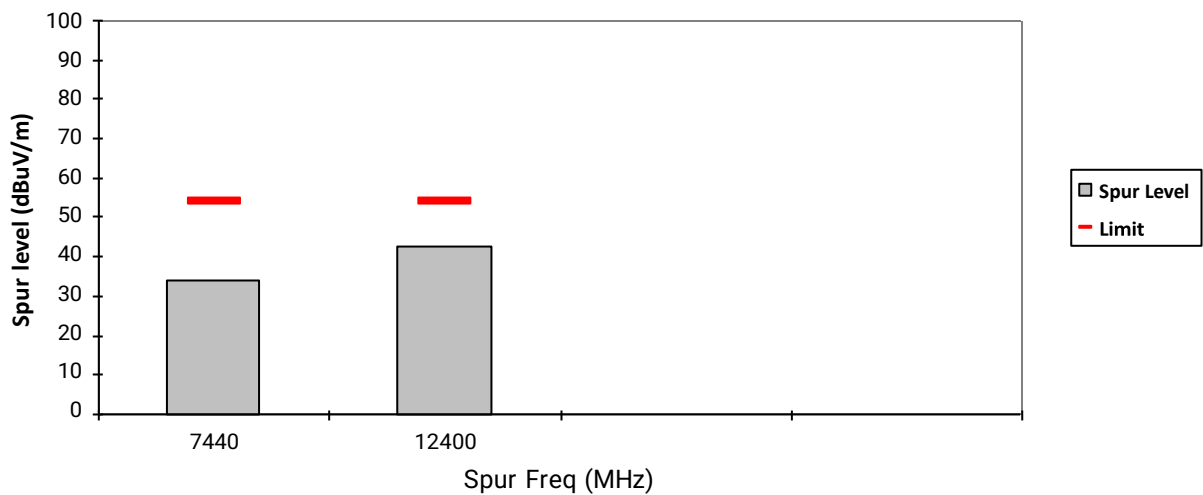
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



NOTE:

Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b,c)

Based on the Bluetooth Specification Version 2.1+EDR, and worst case AFH mode, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length, the AFH mode Duty cycle connection factor as below:

Channel hop rate = 800 hops/second (AFH Mode)
 Adjusted channel hop rate for DH5 mode = 133.33 hops/second
 Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.5 \text{ ms}$
 Time to cycle through all channels = $7.5 \times 20 \text{ channels} = 150 \text{ ms}$
 Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
 Worst case dwell time = 7.5 ms
 Duty cycle connection factor = $20\log_{10} (7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$

Test: Bluetooth SAC Transmitter Radiated Emission
 Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014
 Battery: PMNN4578A Softpot power (9dBm) Accessory: NA
 Test Channel: Low Test Frequency: 2402.0000 MHz Test Standard: ANSI C63.10-2013
 Worst Case Plane: Z-Plane (DQPSK)

Radiated Emission (Low Channel) tabular data

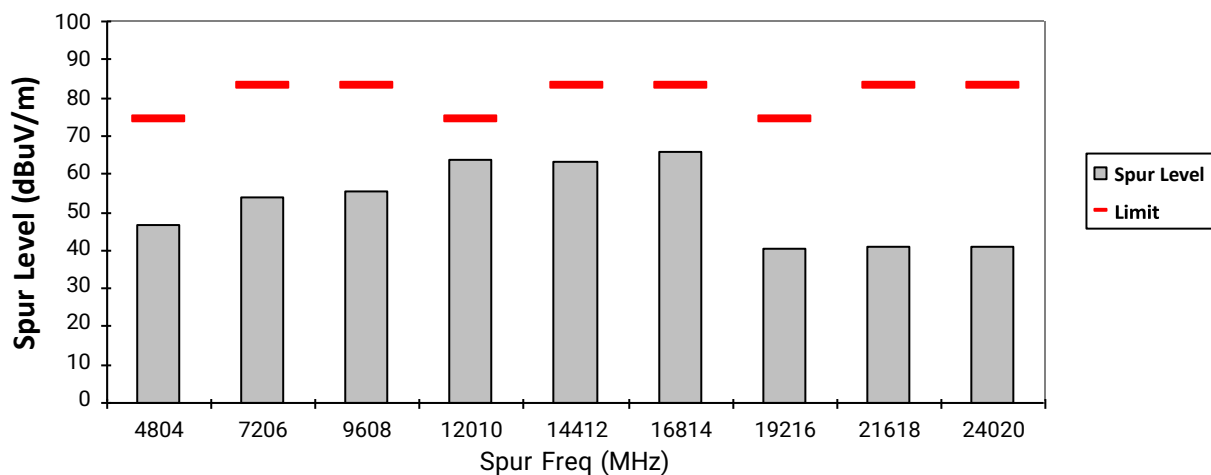
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
4804	-	46.4776**	-	-	74.0000	-	-	27.5224	-	-
7206	-	53.8434**	-	-	83.0893	-	-	29.2459	-	103.0893
9608	-	55.4178**	-	-	83.0893	-	-	27.6715	-	103.0893
12010	-	63.7700**	41.2700**	-	74.0000	54.0000	-	10.2300	12.7300	-
14412	-	63.3832**	-	-	83.0893	-	-	19.7061	-	103.0893
16814	-	65.8318**	-	-	83.0893	-	-	17.2575	-	103.0893
19216	-	40.2000**	-	-	74.0000	-	-	33.8000	-	-
21618	-	40.7484**	-	-	83.0893	-	-	42.3409	-	103.0893
24020	-	40.7515**	-	-	83.0893	-	-	42.3378	-	103.0893
Horizontal Radiated Emission Result										
4804	-	47.6711**	-	-	74.0000	-	-	26.3289	-	-
7206	-	52.6481**	-	-	83.0893	-	-	30.4412	-	103.0893
9608	-	55.5217**	-	-	83.0893	-	-	27.5676	-	103.0893
12010	-	63.5889**	41.0889**	-	74.0000	54.0000	-	10.4111	12.9111	-
14412	-	63.4578**	-	-	83.0893	-	-	19.6315	-	103.0893
16814	-	67.9570**	-	-	83.0893	-	-	15.1323	-	103.0893
19216	-	39.6858**	-	-	74.0000	-	-	34.3142	-	-
21618	-	41.3532**	-	-	83.0893	-	-	41.7361	-	103.0893
24020	-	40.8937**	-	-	83.0893	-	-	42.1956	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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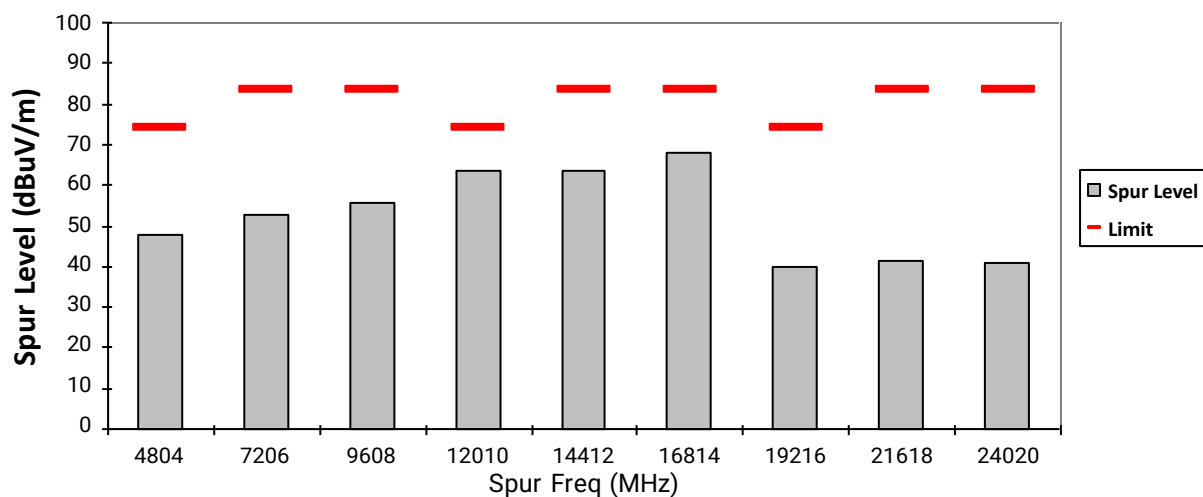
Temperature (degC): 22.4 Humidity (%): 67.9
 Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

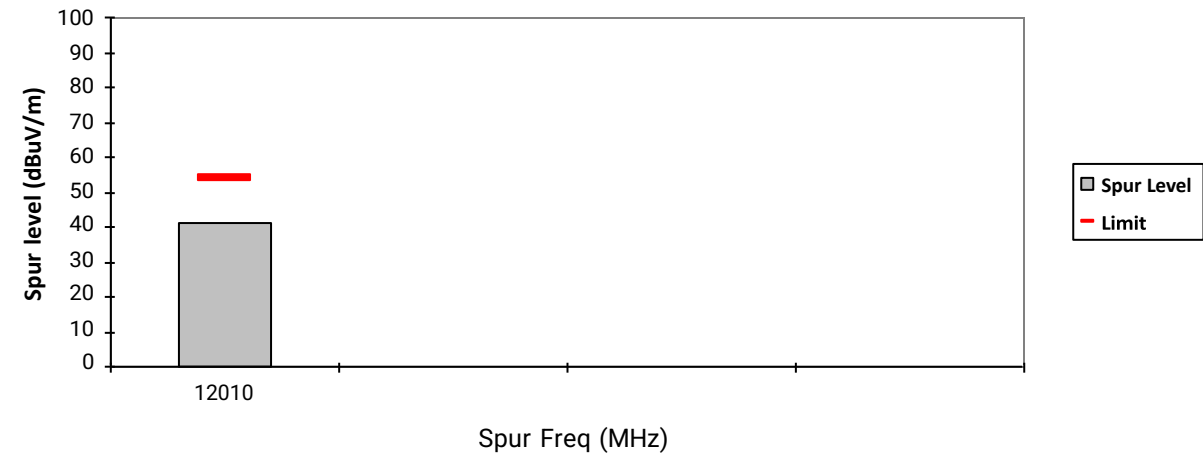
VERTICAL, PK



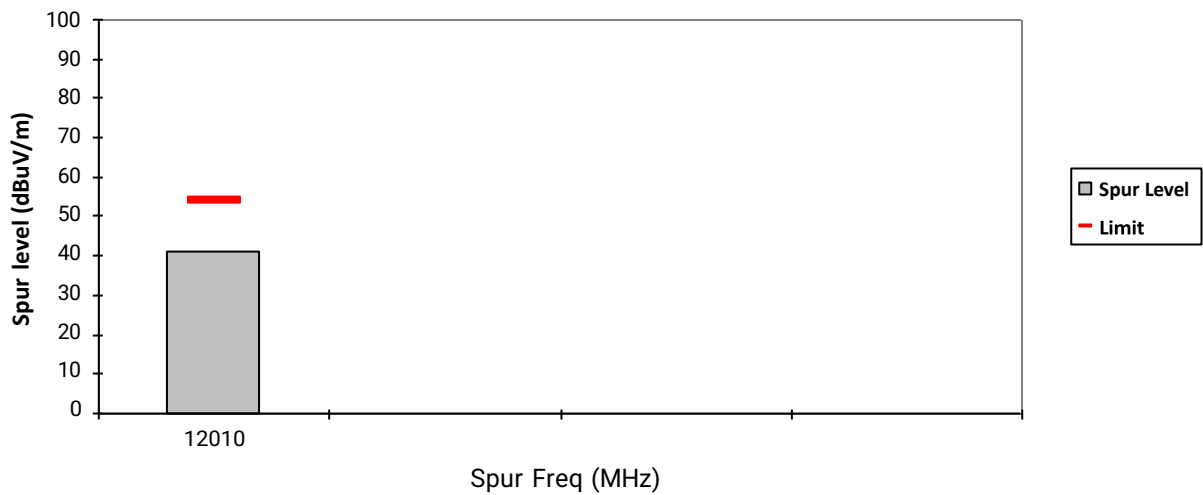
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014

Battery: PMNN4578A Softpot power (9dBm) Accessory: NA

Test Channel: Mid Test Frequency: 2441.0000 MHz Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (DQPSK)

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4882	-	46.8935**	-	-	74.0000	-	-	27.1065	-	-
7323	-	56.4599**	33.9599**	-	74.0000	54.0000	-	17.5401	20.0401	-
9764	-	55.7227**	-	-	83.0893	-	-	27.3666	-	103.0893
12205	-	63.4089**	40.9089**	-	74.0000	54.0000	-	10.5911	13.0911	-
14646	-	63.8038**	-	-	83.0893	-	-	19.2855	-	103.0893
17087	-	69.3144**	-	-	83.0893	-	-	13.7749	-	103.0893
19528	-	40.1046**	-	-	74.0000	-	-	33.8954	-	-
21969	-	42.1675**	-	-	83.0893	-	-	40.9218	-	103.0893
24410	-	40.3518**	-	-	83.0893	-	-	42.7375	-	103.0893
Horizontal Radiated Emission Result										
4882	-	47.1231**	-	-	74.0000	-	-	26.8769	-	-
7323	-	56.2117**	33.7117**	-	74.0000	54.0000	-	17.7883	20.2883	-
9764	-	54.2451**	-	-	83.0893	-	-	28.8442	-	103.0893
12205	-	63.3973**	40.8973**	-	74.0000	54.0000	-	10.6027	13.1027	-
14646	-	64.2529**	-	-	83.0893	-	-	18.8364	-	103.0893
17087	-	69.0946**	-	-	83.0893	-	-	13.9947	-	103.0893
19528	-	39.7986**	-	-	74.0000	-	-	34.2014	-	-
21969	-	41.9471**	-	-	83.0893	-	-	41.1422	-	103.0893
24410	-	41.6151**	-	-	83.0893	-	-	41.4742	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4 Humidity (%): 67.9

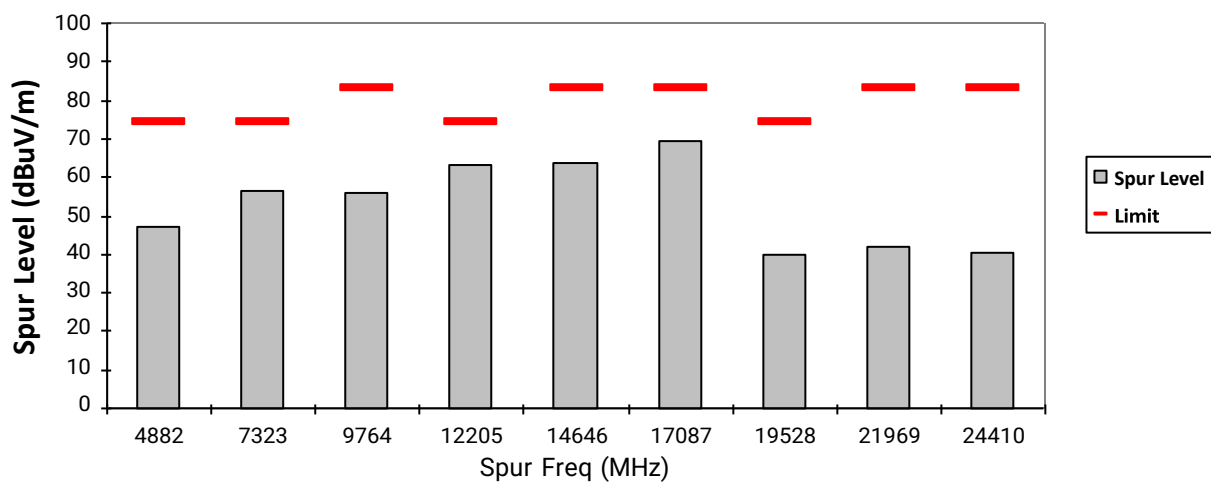
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

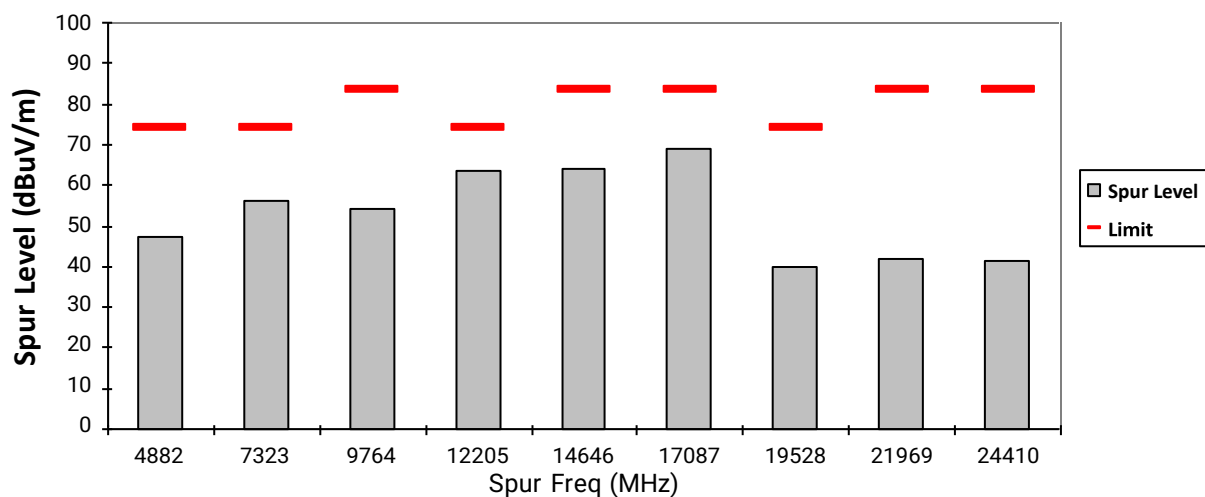
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

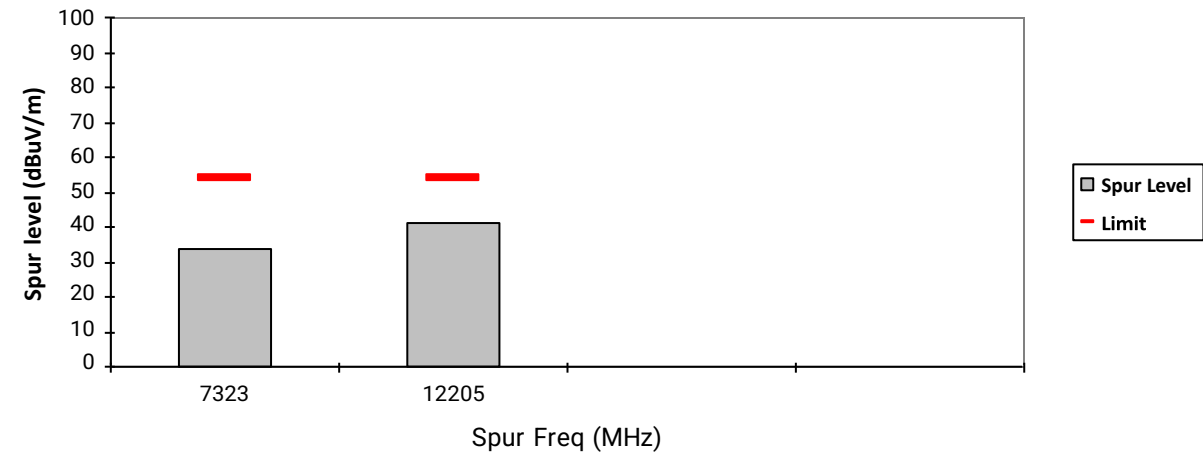
VERTICAL, PK



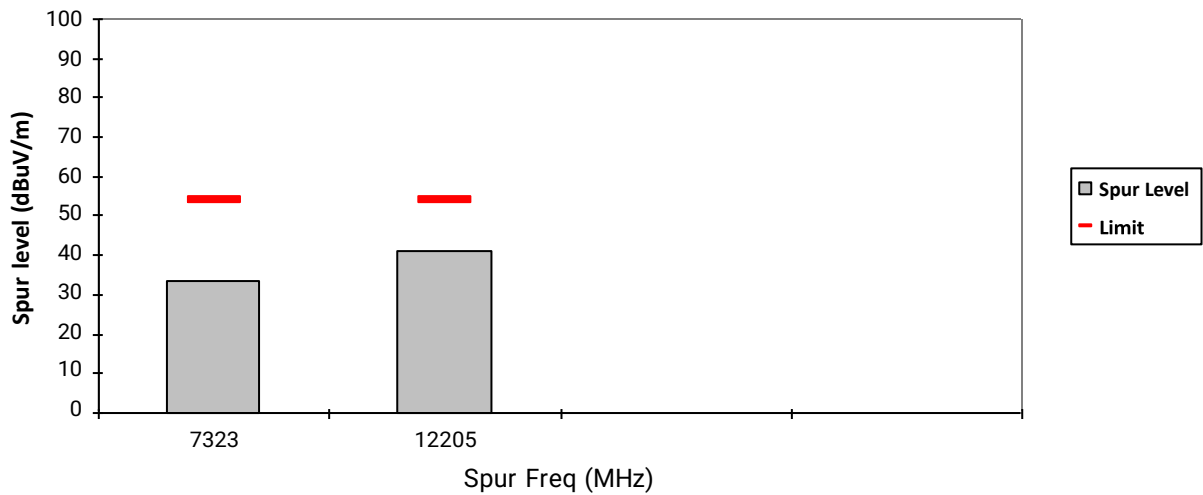
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014

Battery: PMNN4578A Softpot power (9dBm) Accessory: NA

Test Channel: High Test Frequency: 2480.0000 MHz Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (DQPSK)

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4960	-	47.1743**	-	-	74.0000	-	-	26.8257	-	-
7440	-	56.2487**	33.7487**	-	74.0000	54.0000	-	17.7513	20.2513	-
9920	-	55.1297**	-	-	83.0893	-	-	27.9596	-	103.0893
12400	-	64.8077**	42.3077**	-	74.0000	54.0000	-	9.1923	11.6923	-
14880	-	64.5269**	-	-	83.0893	-	-	18.5624	-	103.0893
17360	-	69.9067**	-	-	83.0893	-	-	13.1826	-	103.0893
19840	-	40.6813**	-	-	74.0000	-	-	33.3187	-	-
22320	-	41.3453**	-	-	74.0000	-	-	32.6547	-	-
24800	-	39.9813**	-	-	83.0893	-	-	43.1080	-	103.0893
Horizontal Radiated Emission Result										
4960	-	47.3675**	-	-	74.0000	-	-	26.6325	-	-
7440	-	56.6502**	34.1502**	-	74.0000	54.0000	-	17.3498	19.8498	-
9920	-	56.0687**	-	-	83.0893	-	-	27.0206	-	103.0893
12400	-	64.9016**	42.4016**	-	74.0000	54.0000	-	9.0984	11.5984	-
14880	-	64.9389**	-	-	83.0893	-	-	18.1504	-	103.0893
17360	-	71.0906**	-	-	83.0893	-	-	11.9987	-	103.0893
19840	-	40.9725**	-	-	74.0000	-	-	33.0275	-	-
22320	-	42.3785**	-	-	74.0000	-	-	31.6215	-	-
24800	-	41.4465**	-	-	83.0893	-	-	41.6428	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4 Humidity (%): 67.9

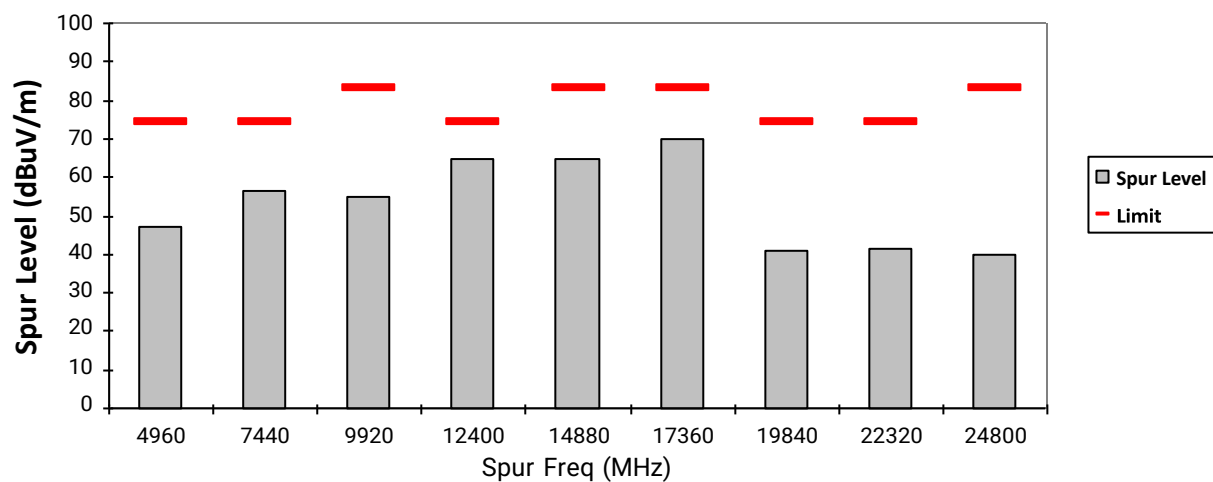
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

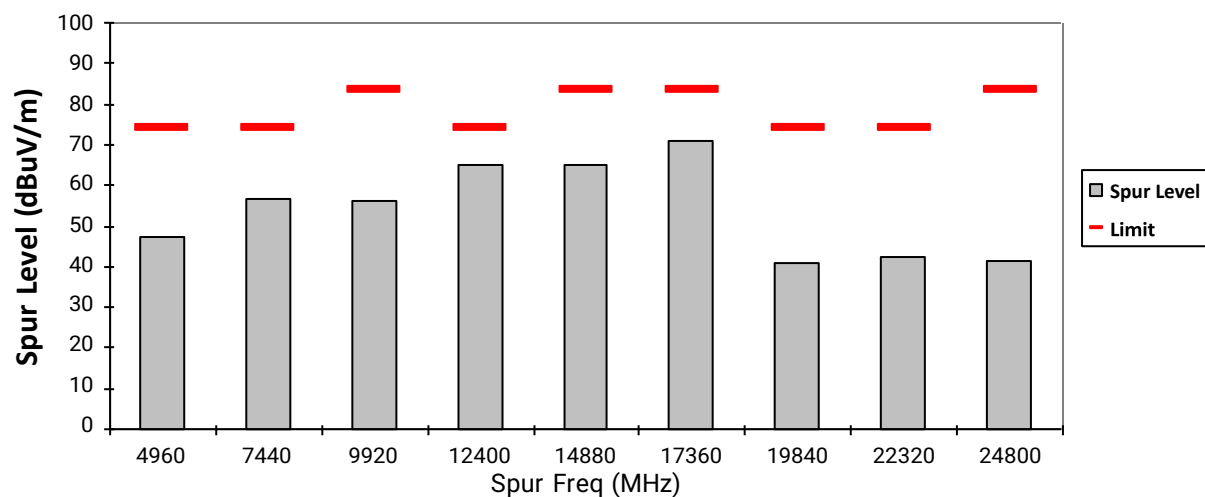
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

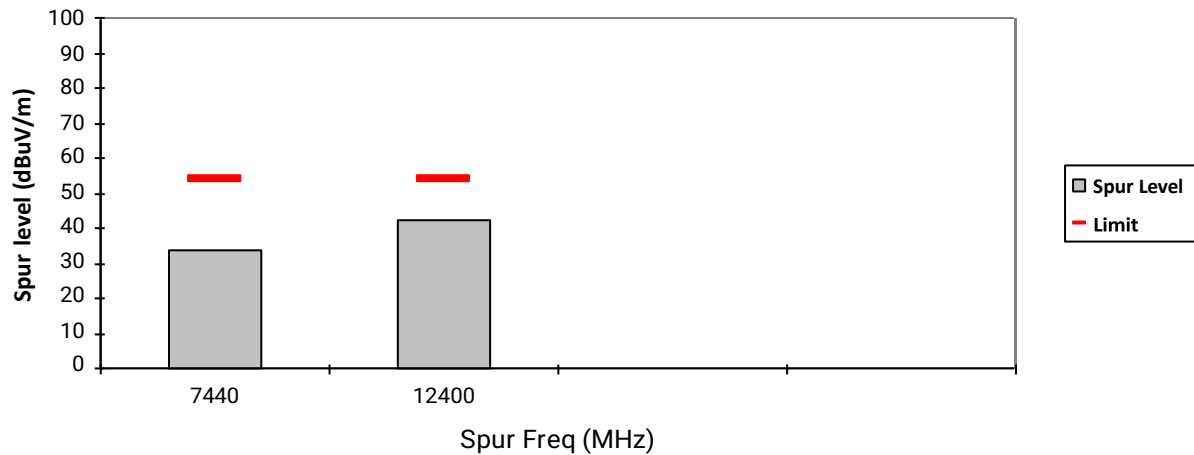
VERTICAL, PK



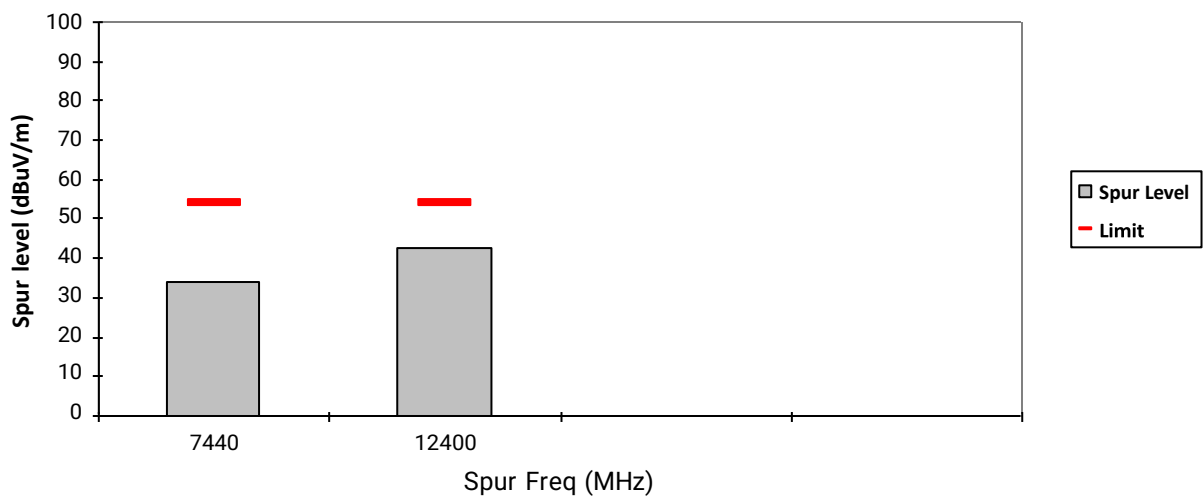
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



NOTE:

Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b,c)

Based on the Bluetooth Specification Version 2.1+EDR, and worst case AFH mode, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length, the AFH mode Duty cycle connection factor as below:

Channel hop rate = 800 hops/second (AFH Mode)

Adjusted channel hop rate for DH5 mode = 133.33 hops/second

Time per channel hop = $1 / 133.33$ hops/second = 7.5 ms

Time to cycle through all channels = 7.5×20 channels = 150 ms

Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1$ time(s)

Worst case dwell time = 7.5 ms

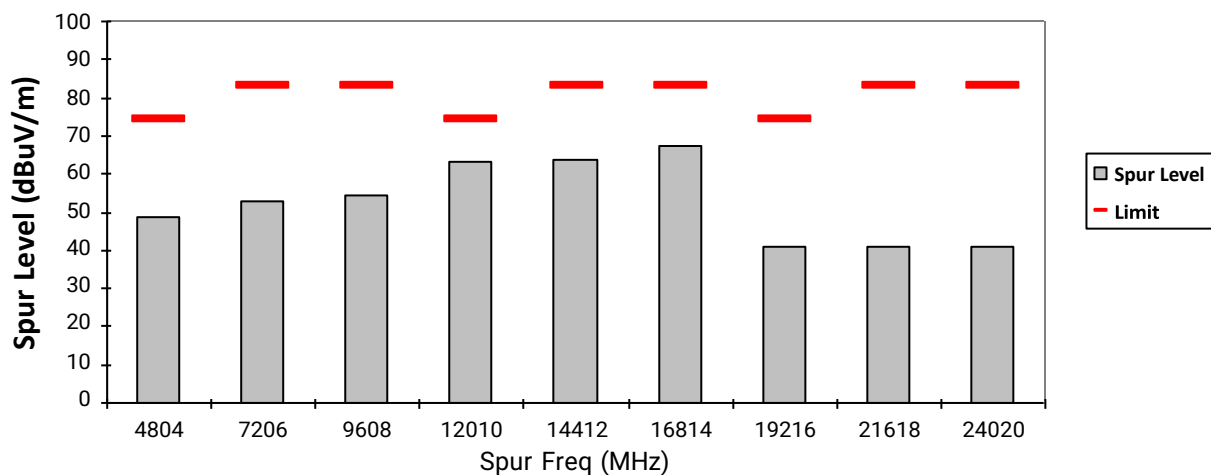
Duty cycle connection factor = $20\log_{10} (7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$

Radiated Emission (Low Channel) tabular data

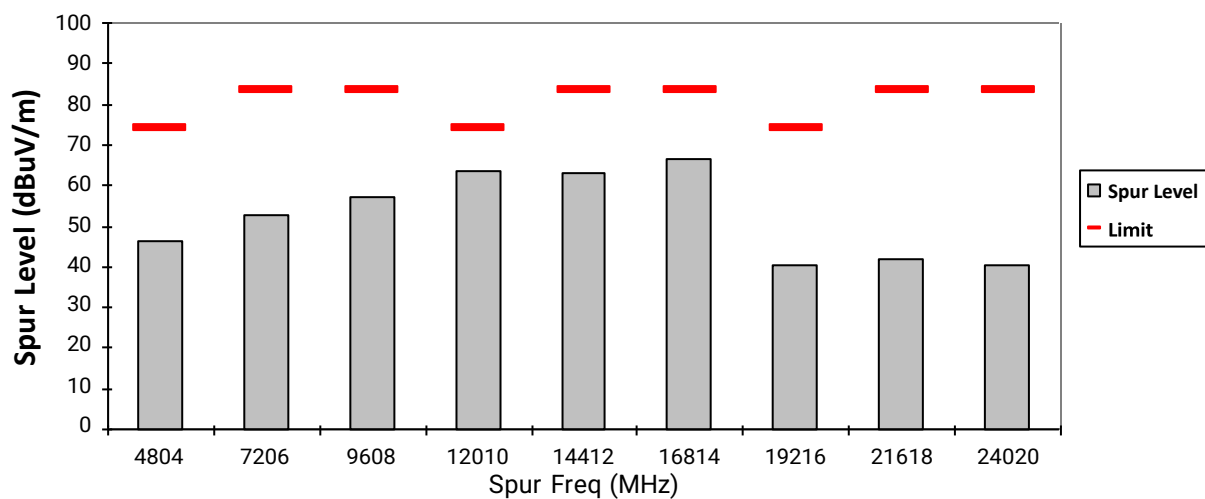
Remarks: Pass Result	Marginal Result	Fail Result
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Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

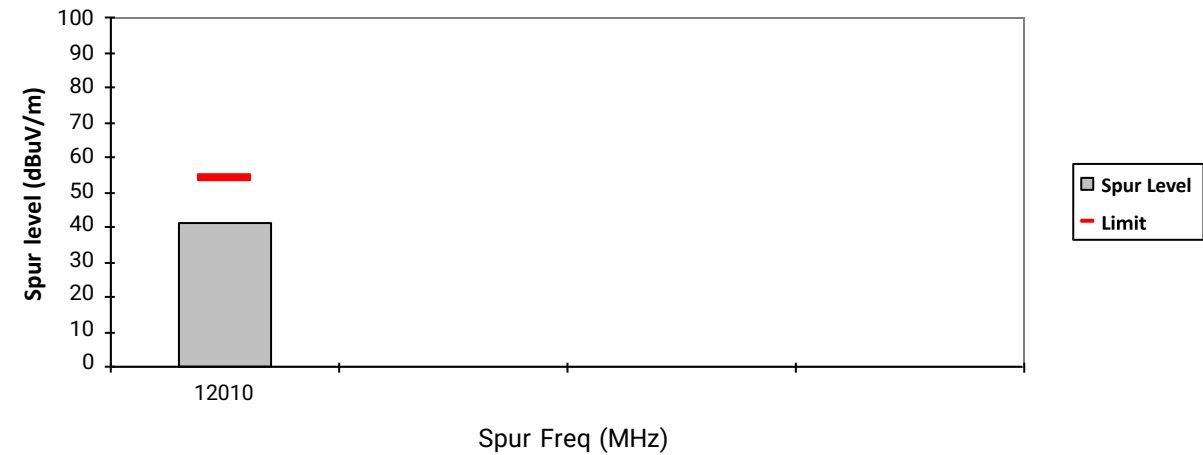
VERTICAL, PK



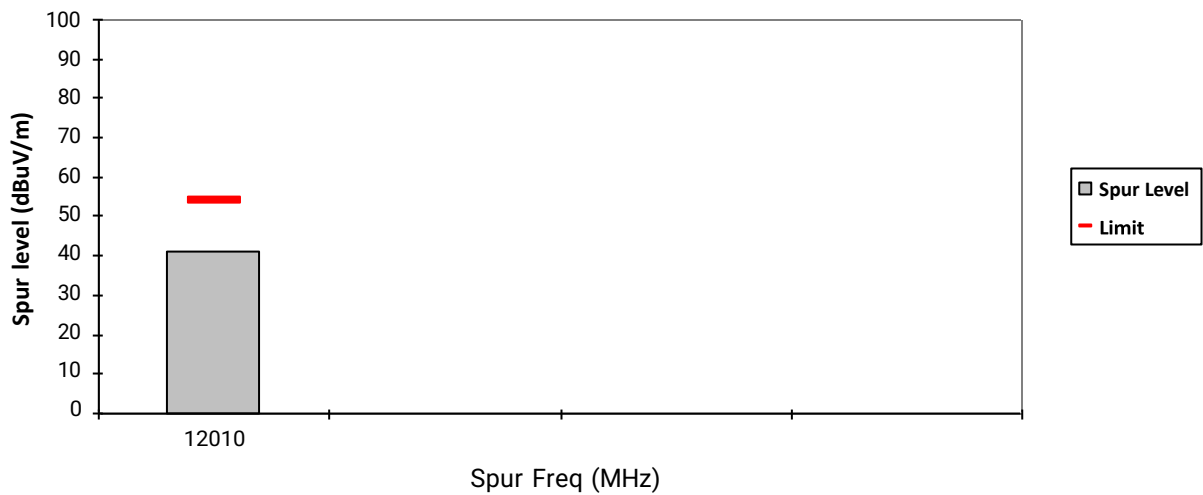
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission
Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014
Battery: PMNN4578A Softpot power (9dBm) Accessory: NA
Test Channel: Mid Test Frequency: 2441.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (8DPSK)

Radiated Emission (Mid Channel) tabular data

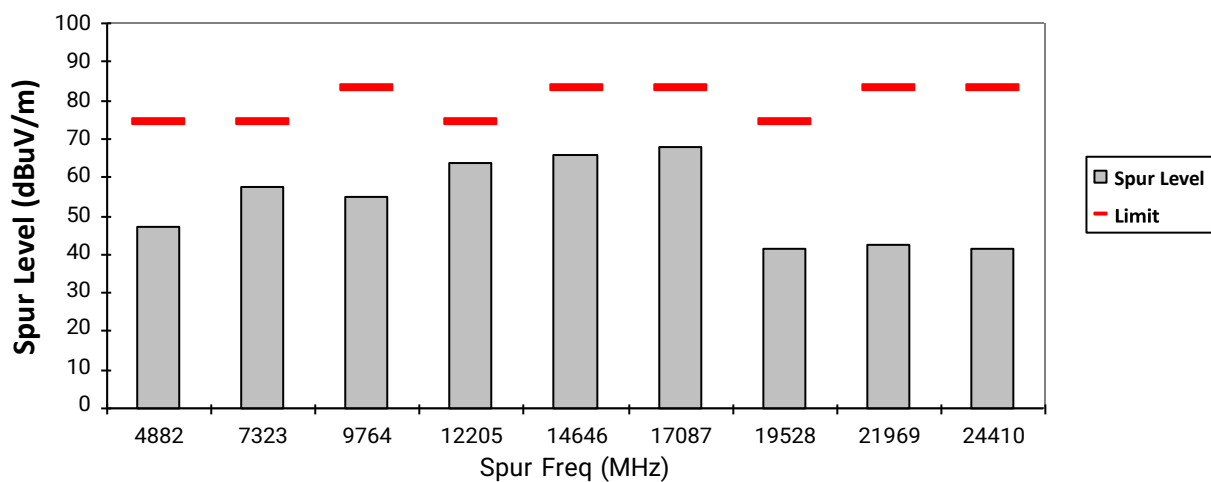
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
4882	-	47.3158**	-	-	74.0000	-	-	26.6842	-	-
7323	-	57.2646**	34.7646**	-	74.0000	54.0000	-	16.7354	19.2354	-
9764	-	54.6879**	-	-	83.0893	-	-	28.4014	-	103.0893
12205	-	63.8087**	41.3087**	-	74.0000	54.0000	-	10.1913	12.6913	-
14646	-	65.7612**	-	-	83.0893	-	-	17.3281	-	103.0893
17087	-	68.0957**	-	-	83.0893	-	-	14.9936	-	103.0893
19528	-	41.5349**	-	-	74.0000	-	-	32.4651	-	-
21969	-	42.2366**	-	-	83.0893	-	-	40.8527	-	103.0893
24410	-	41.4138**	-	-	83.0893	-	-	41.6755	-	103.0893
Horizontal Radiated Emission Result										
4882	-	48.0364**	-	-	74.0000	-	-	25.9636	-	-
7323	-	56.7117**	34.2117**	-	74.0000	54.0000	-	17.2883	19.7883	-
9764	-	54.9462**	-	-	83.0893	-	-	28.1431	-	103.0893
12205	-	63.4946**	40.9946**	-	74.0000	54.0000	-	10.5054	13.0054	-
14646	-	63.7658**	-	-	83.0893	-	-	19.3235	-	103.0893
17087	-	69.5493**	-	-	83.0893	-	-	13.5400	-	103.0893
19528	-	40.7343**	-	-	74.0000	-	-	33.2657	-	-
21969	-	41.6608**	-	-	83.0893	-	-	41.4285	-	103.0893
24410	-	41.1617**	-	-	83.0893	-	-	41.9276	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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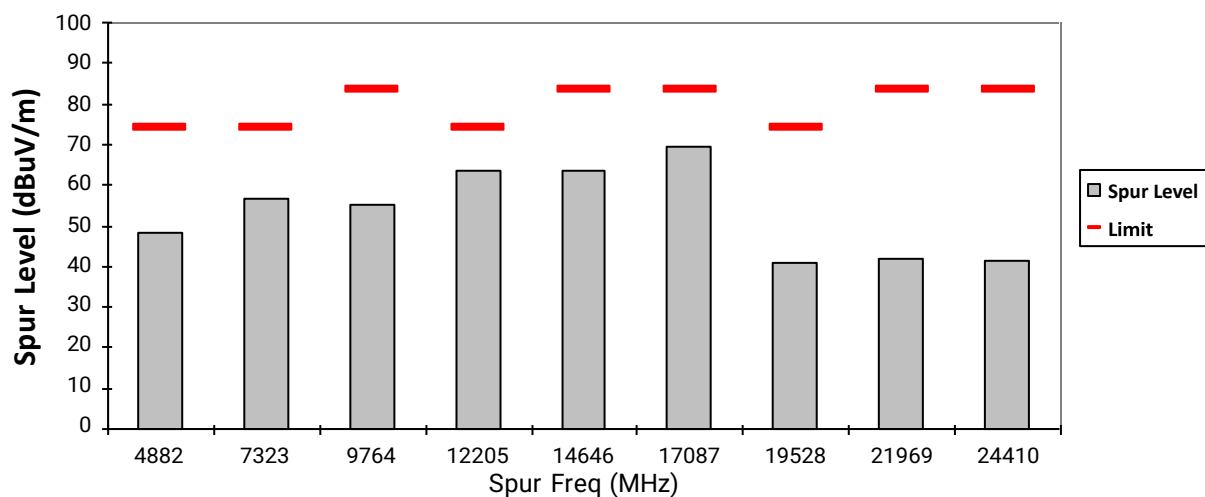
Temperature (degC): 22.4 Humidity (%): 67.9
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

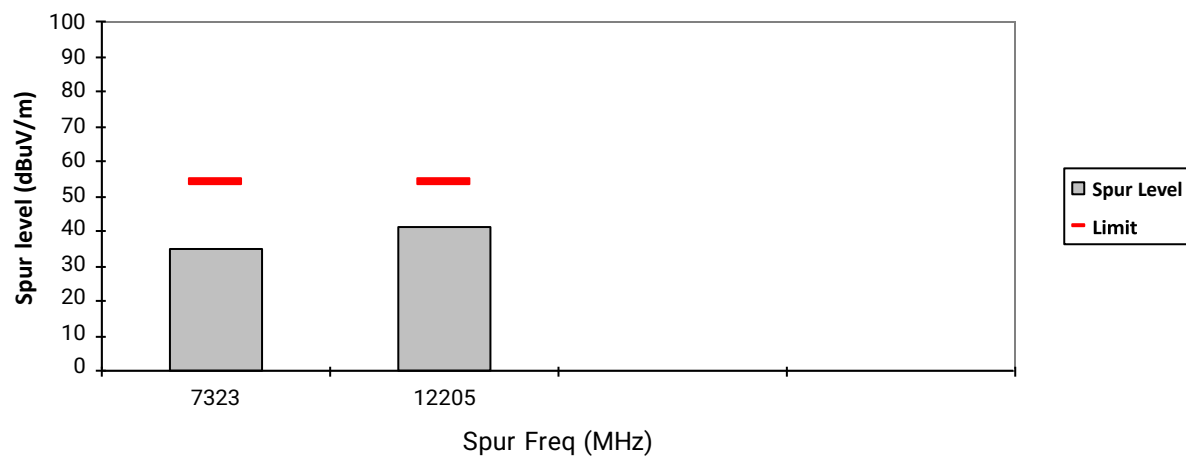
VERTICAL, PK



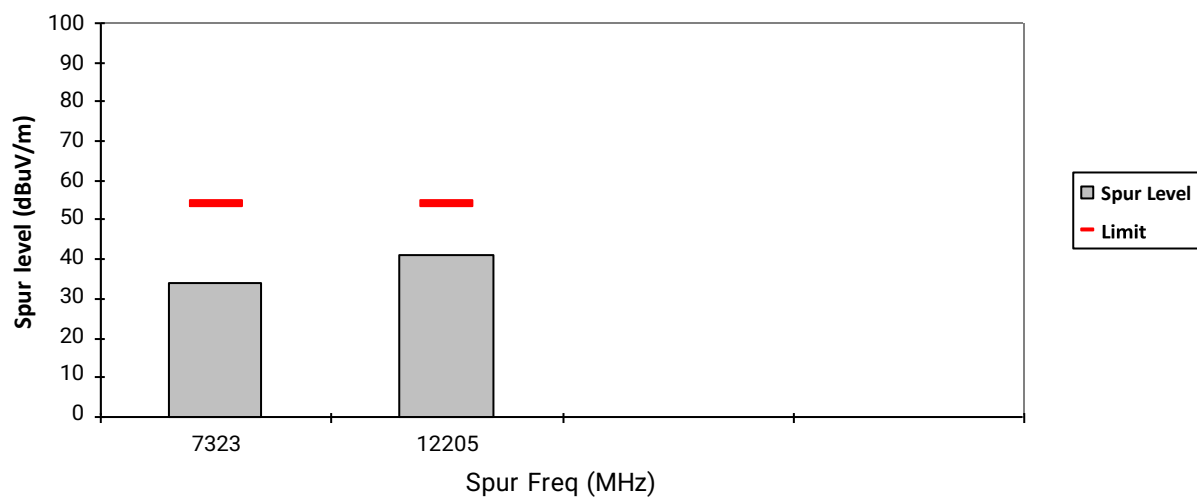
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model Number: B20CJM2BE2AN S/N: 663EAS0005 EMC SR ID#: 0572N00-EMC-00014

Battery: PMNN4578A Softpot power (9dBm) Accessory: NA

Test Channel: High Test Frequency: 2480.0000 MHz Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (8DPSK)

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4960	-	48.2242**	-	-	74.0000	-	-	25.7758	-	-
7440	-	56.4445**	33.9445**	-	74.0000	54.0000	-	17.5555	20.0555	-
9920	-	55.0459**	-	-	83.0893	-	-	28.0434	-	103.0893
12400	-	64.6744**	42.1744**	-	74.0000	54.0000	-	9.3256	11.8256	-
14880	-	64.6041**	-	-	83.0893	-	-	18.4852	-	103.0893
17360	-	70.0874**	-	-	83.0893	-	-	13.0019	-	103.0893
19840	-	39.9942**	-	-	74.0000	-	-	34.0058	-	-
22320	-	40.7545**	-	-	74.0000	-	-	33.2455	-	-
24800	-	40.2511**	-	-	83.0893	-	-	42.8382	-	103.0893
Horizontal Radiated Emission Result										
4960	-	47.7192**	-	-	74.0000	-	-	26.2808	-	-
7440	-	56.7522**	34.2522**	-	74.0000	54.0000	-	17.2478	19.7478	-
9920	-	54.6602**	-	-	83.0893	-	-	28.4291	-	103.0893
12400	-	65.1738**	42.6738**	-	74.0000	54.0000	-	8.8262	11.3262	-
14880	-	64.6518**	-	-	83.0893	-	-	18.4375	-	103.0893
17360	-	70.4561**	-	-	83.0893	-	-	12.6332	-	103.0893
19840	-	41.3154**	-	-	74.0000	-	-	32.6846	-	-
22320	-	41.3891**	-	-	74.0000	-	-	32.6109	-	-
24800	-	41.7363**	-	-	83.0893	-	-	41.3530	-	103.0893

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 22.4 Humidity (%): 67.9

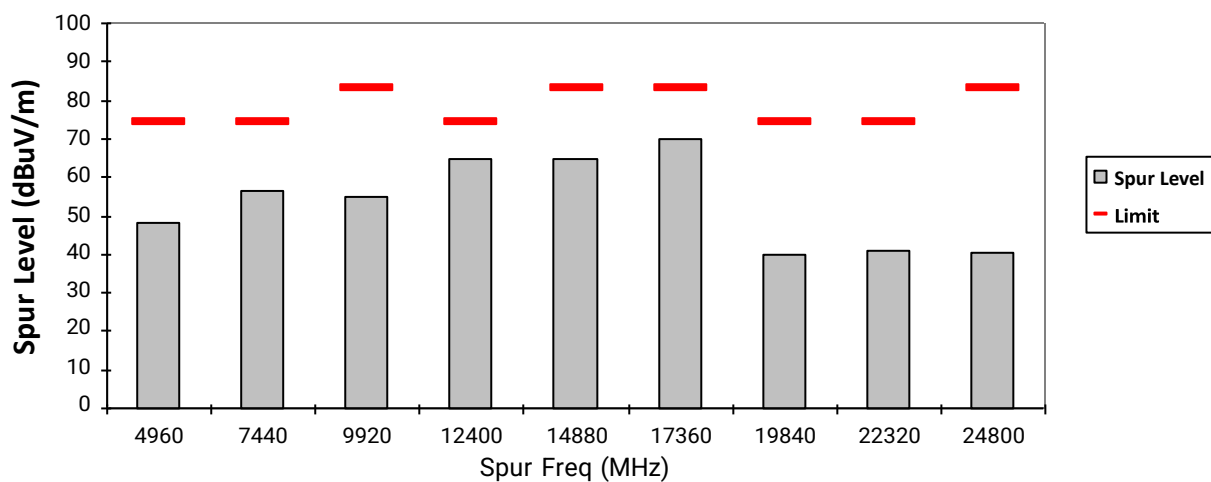
Test Performed by: Nazrin & Fuad Test Date: Sun, 29 Sep, 2024

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

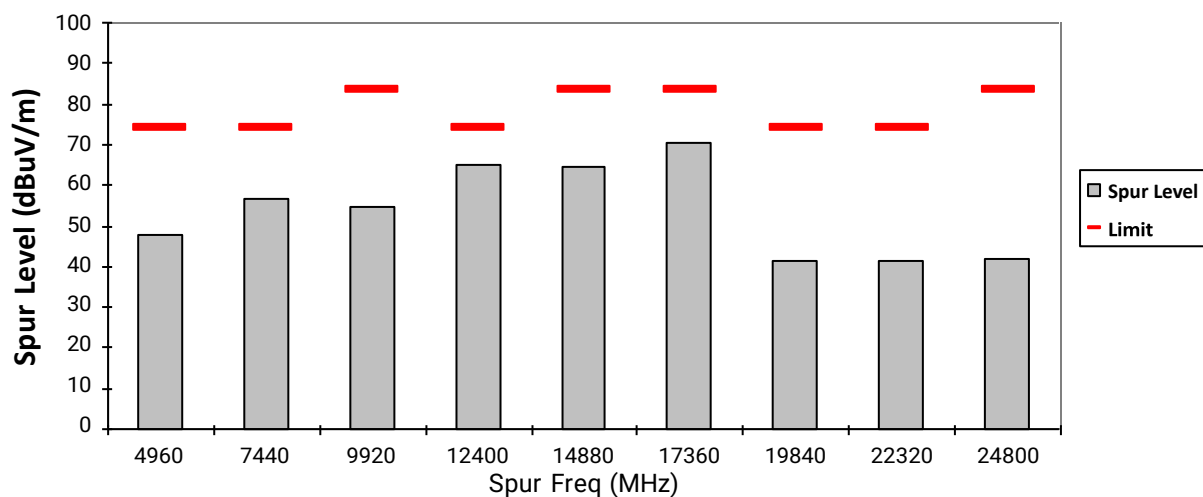
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

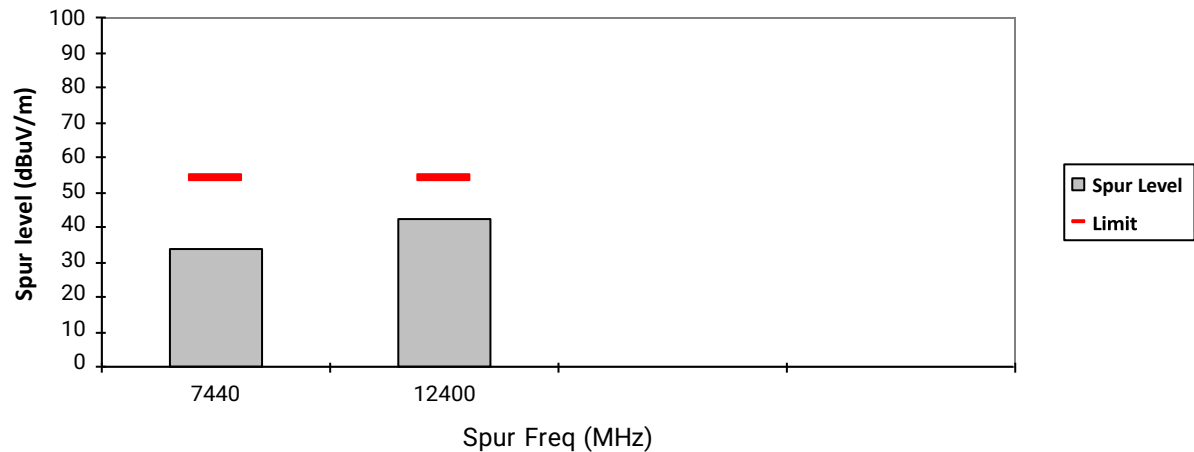
VERTICAL, PK



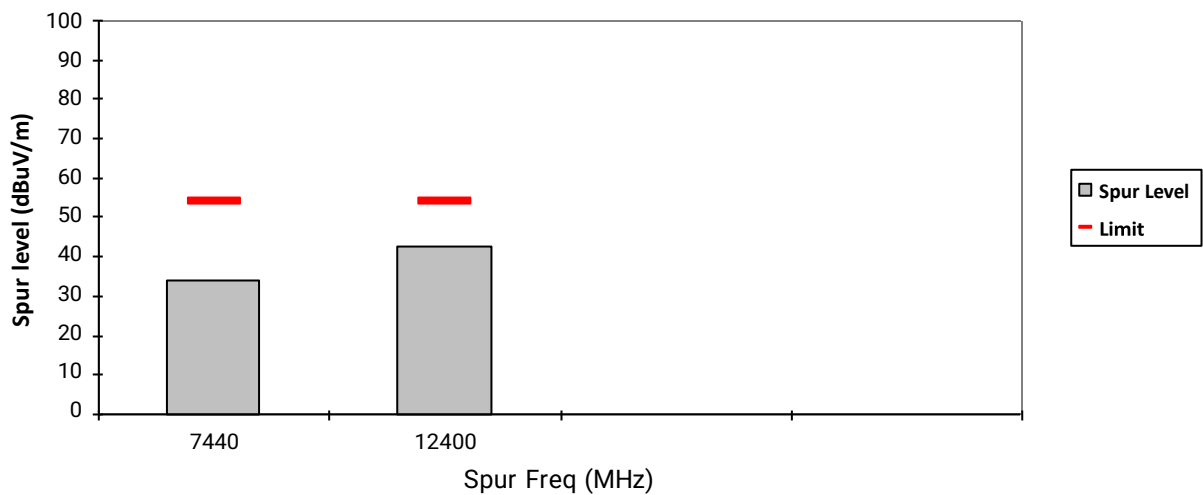
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



NOTE:

Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b,c)

Based on the Bluetooth Specification Version 2.1+EDR, and worst case AFH mode, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length, the AFH mode Duty cycle connection factor as below:

Channel hop rate = 800 hops/second (AFH Mode)
 Adjusted channel hop rate for DH5 mode = 133.33 hops/second
 Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.5 \text{ ms}$
 Time to cycle through all channels = $7.5 \times 20 \text{ channels} = 150 \text{ ms}$
 Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
 Worst case dwell time = 7.5 ms
 Duty cycle connection factor = $20\log_{10} (7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$

Test: Bluetooth SAC Transmitter Radiated Emission	EMC SR ID#: 0572N00-EMC-00037
Model Number: B20CJM2BE2AN	S/N: 952EAY0164
Battery: PMNN4578A	
Accessory: PMKN4294A, Laptop (A1370959)	
Test Channel: High	Test Frequency: 2480.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane (GFSK)

Radiated Emission (High Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 21.3

Humidity (%): 63.7

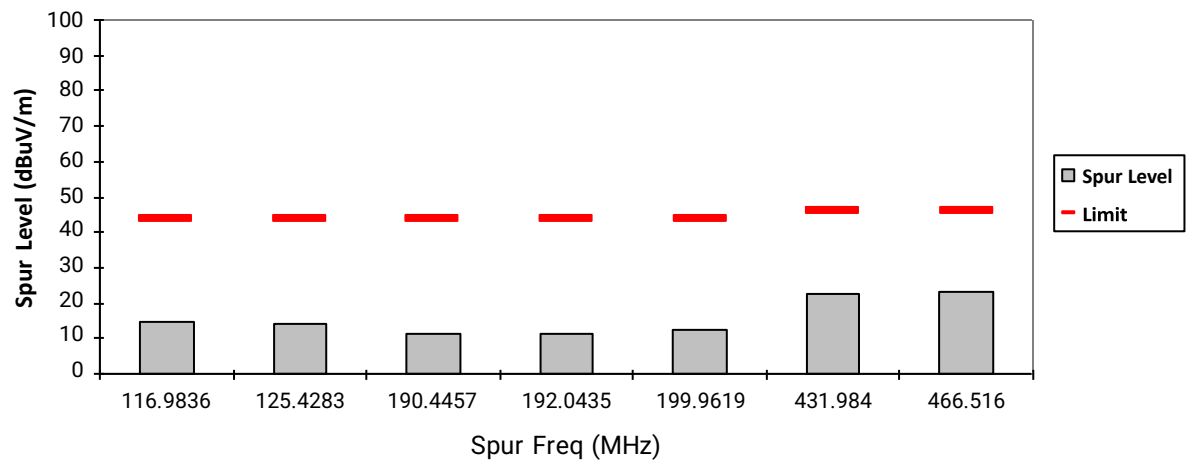
Test Performed by: Aiman

Test Date: Thu, 16 Jan, 2025

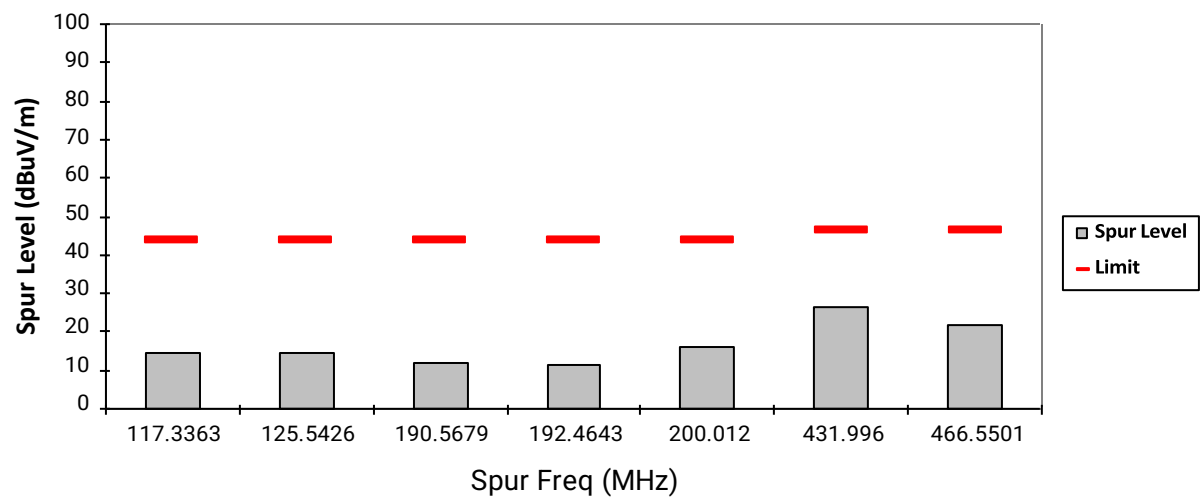
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

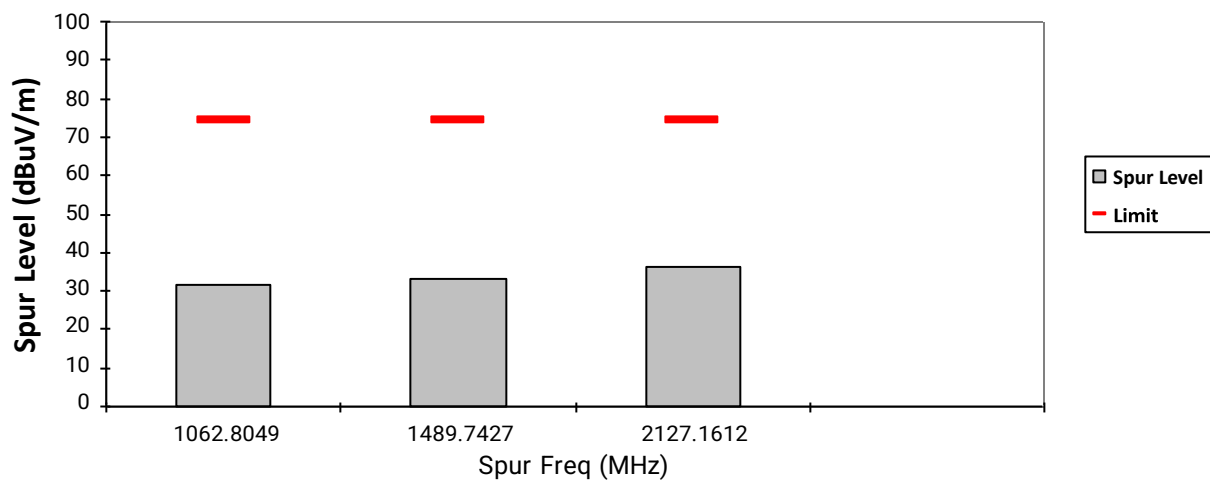
VERTICAL, QPK



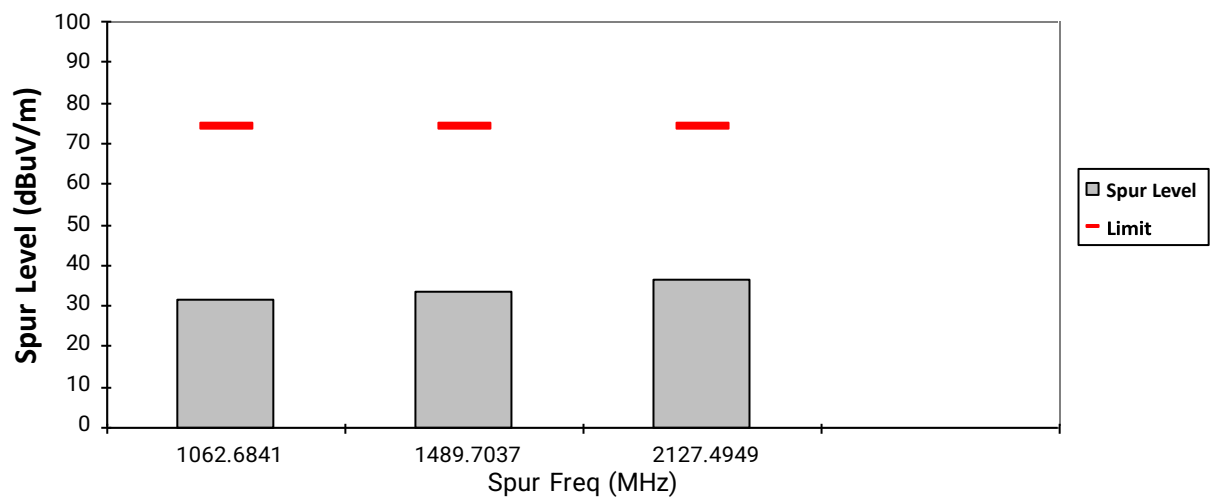
HORIZONTAL, QPK



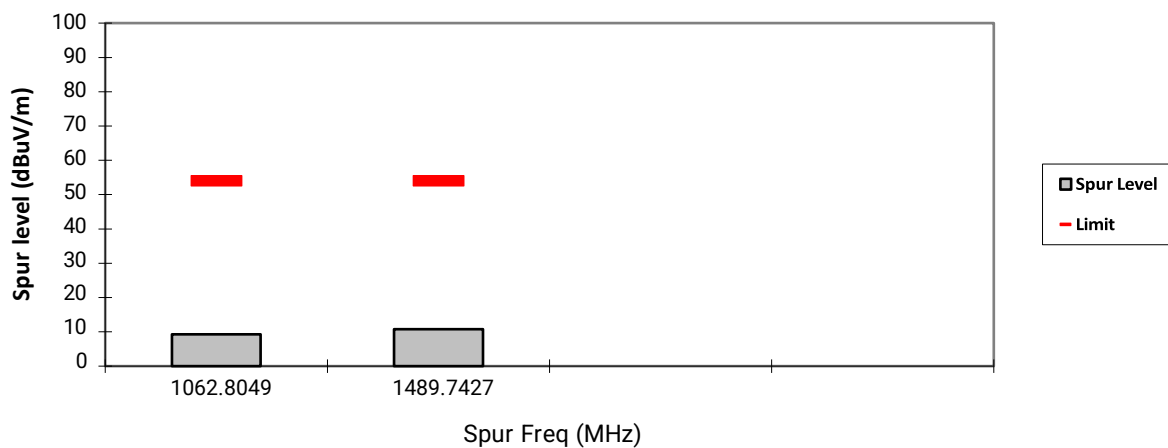
VERTICAL, PK



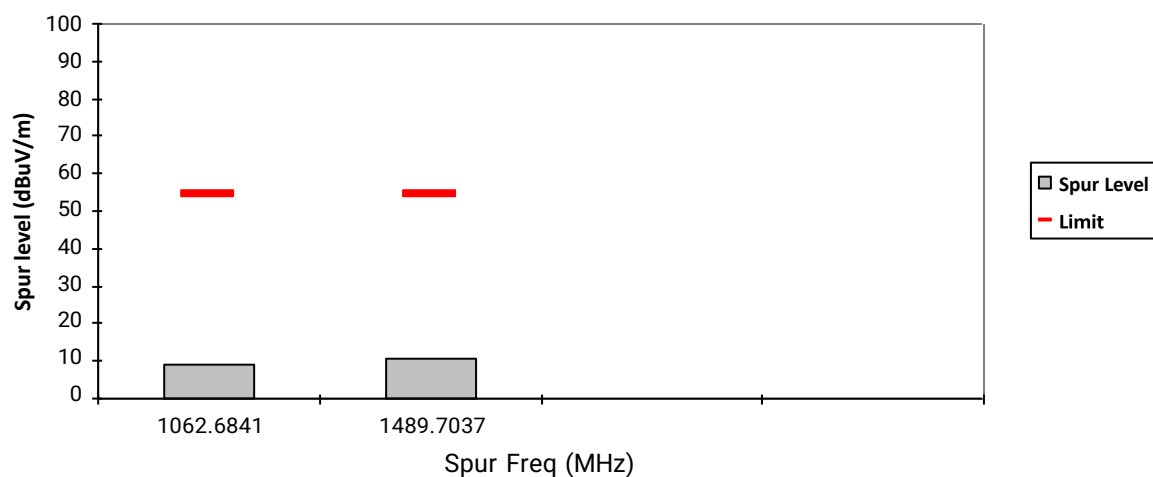
HORIZONTAL, PK



VERTICAL, AV

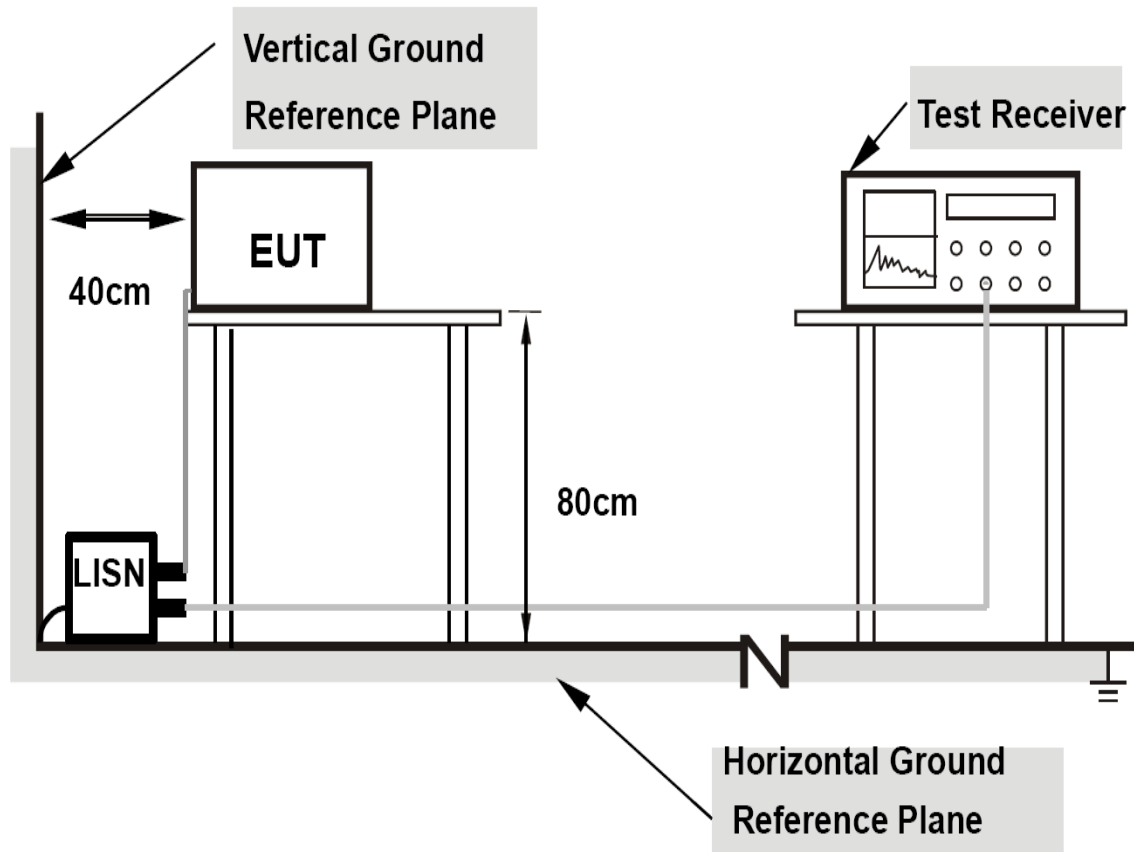


HORIZONTAL, AV



6.9. AC Powerline Conducted Emission

6.9.1. Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.9.2. Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

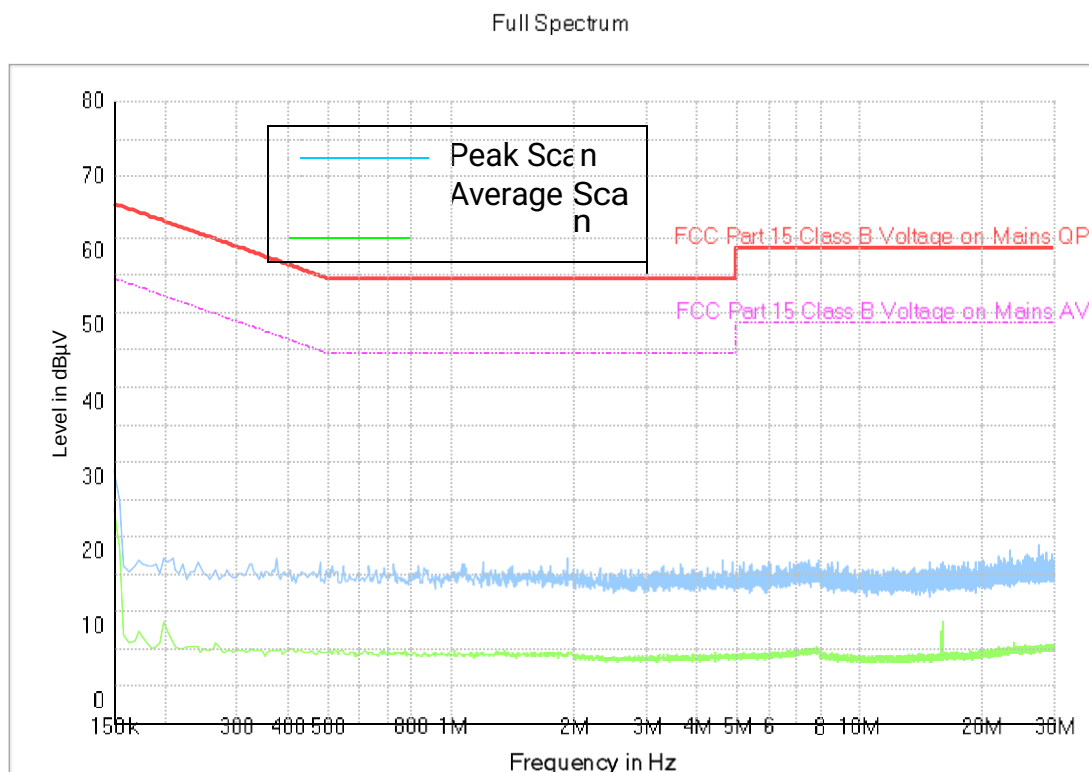
Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies.		
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.9.3. Test Result

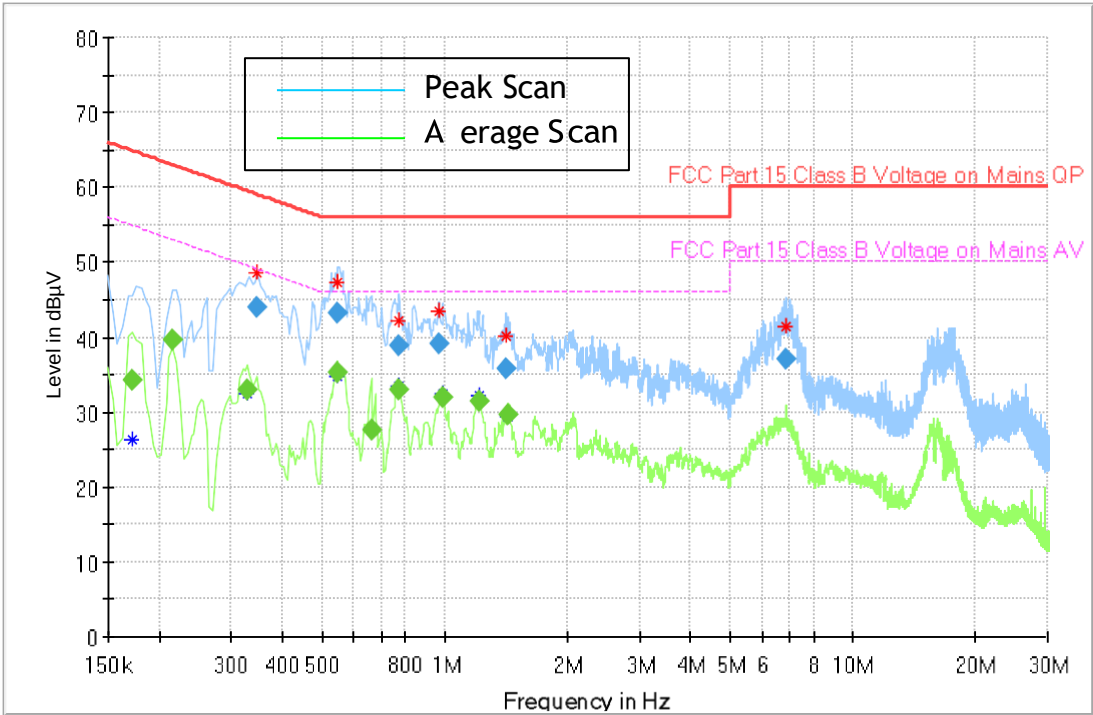
120VAC, 60Hz

1) Ambient



2) Ambient Laptop

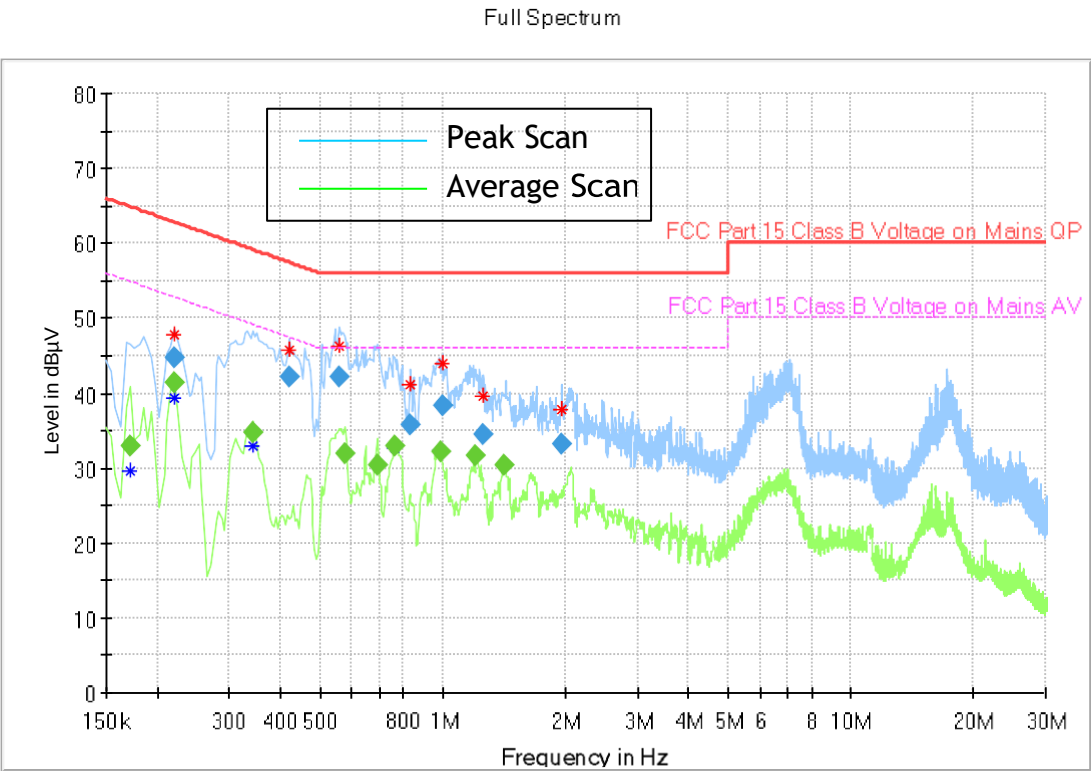
Full Spectrum



Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	—	34.18	54.84	20.66	N	ON	10.8
0.217500	—	39.59	52.91	13.32	L1	ON	10.4
0.330000	—	33.00	49.45	16.45	N	ON	10.5
0.348000	43.97	—	59.01	15.04	N	ON	10.5
0.550500	—	35.19	46.00	10.81	N	ON	10.6
0.550500	43.20	—	56.00	12.80	N	ON	10.6
0.663000	—	27.67	46.00	18.33	L1	ON	10.5
0.771000	—	33.07	46.00	12.93	L1	ON	10.5
0.775500	38.96	—	56.00	17.04	L1	ON	10.5
0.969000	39.14	—	56.00	16.86	N	ON	10.4
0.991500	—	31.89	46.00	14.11	N	ON	10.4
1.216500	—	31.38	46.00	14.62	L1	ON	10.4
1.414500	35.66	—	56.00	20.34	N	ON	10.3
1.437000	—	29.65	46.00	16.35	L1	ON	10.3
6.841500	36.95	—	60.00	23.05	L1	ON	10.4

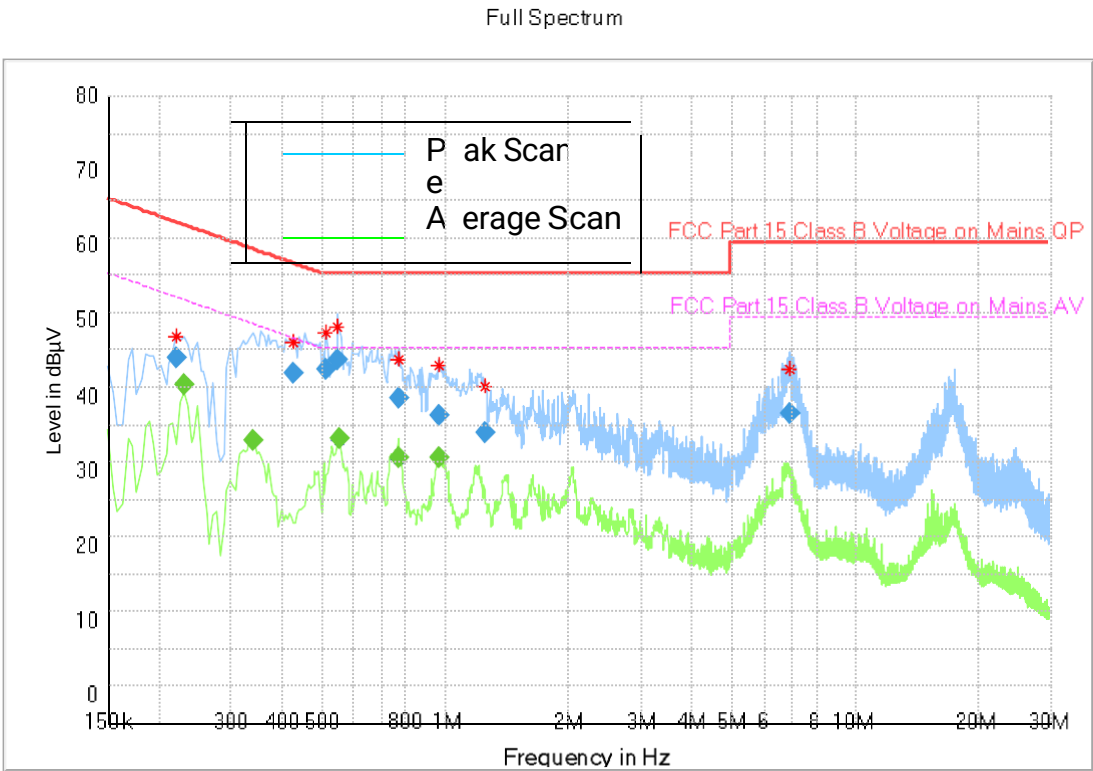
3) Laptop + Camera Standby



Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	—	33.01	54.84	21.83	L1	ON	10.8
0.222000	—	41.31	52.74	11.43	N	ON	10.4
0.222000	44.66	—	62.74	18.08	N	ON	10.4
0.343500	—	34.79	49.12	14.33	N	ON	10.5
0.424500	42.26	—	57.36	15.10	N	ON	10.6
0.559500	42.25	—	56.00	13.75	N	ON	10.6
0.577500	—	31.89	46.00	14.11	N	ON	10.6
0.694500	—	30.41	46.00	15.59	N	ON	10.5
0.762000	—	32.96	46.00	13.04	N	ON	10.5
0.838500	35.73	—	56.00	20.27	N	ON	10.5
0.987000	—	32.17	46.00	13.83	N	ON	10.4
1.000500	38.24	—	56.00	17.76	N	ON	10.4
1.207500	—	31.76	46.00	14.24	L1	ON	10.4
1.261500	34.52	—	56.00	21.48	N	ON	10.3
1.419000	—	30.34	46.00	15.66	L1	ON	10.3
1.954500	33.18	—	56.00	22.82	L1	ON	10.3

4) Laptop + Camera TX BT GFSK



Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.222000	44.80	—	62.74	17.94	L1	ON	10.4
0.231000	—	41.14	52.41	11.27	L1	ON	10.3
0.339000	—	33.69	49.23	15.54	L1	ON	10.5
0.429000	42.75	—	57.27	14.52	N	ON	10.6
0.514500	43.11	—	56.00	12.89	N	ON	10.6
0.550500	44.57	—	56.00	11.43	N	ON	10.6
0.555000	—	33.94	46.00	12.06	L1	ON	10.6
0.771000	—	31.56	46.00	14.44	N	ON	10.5
0.775500	39.30	—	56.00	16.70	N	ON	10.5
0.969000	36.94	—	56.00	19.06	L1	ON	10.4
0.973500	—	31.46	46.00	14.54	L1	ON	10.4
1.257000	34.74	—	56.00	21.26	L1	ON	10.3
7.017000	37.38	—	60.00	22.62	L1	ON	10.4

END OF TEST REPORT