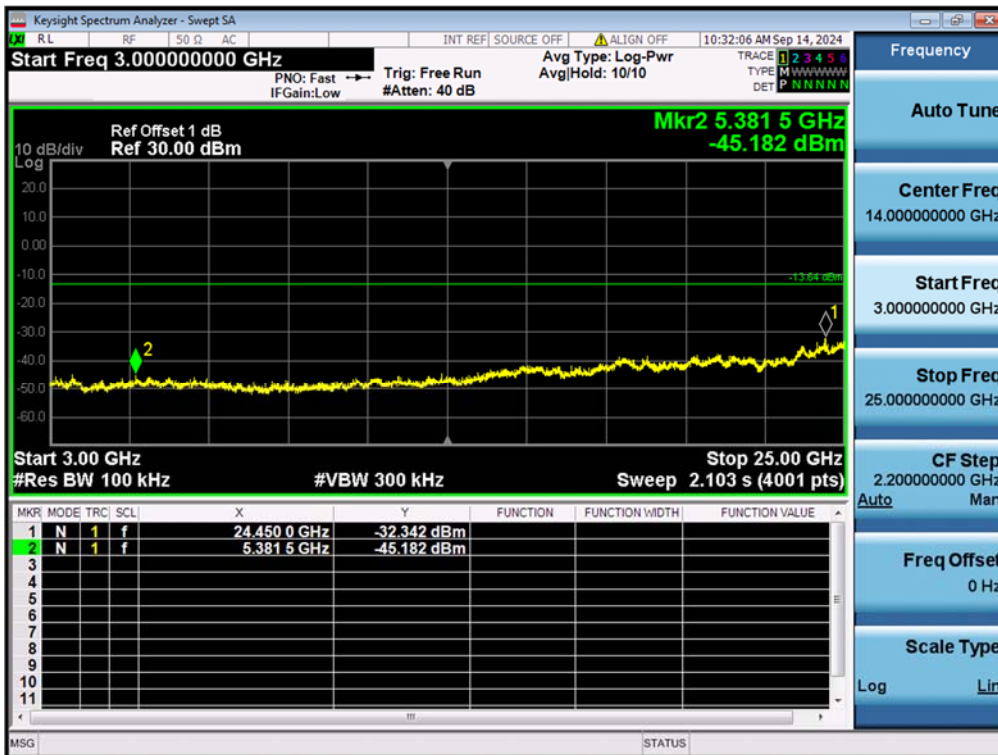
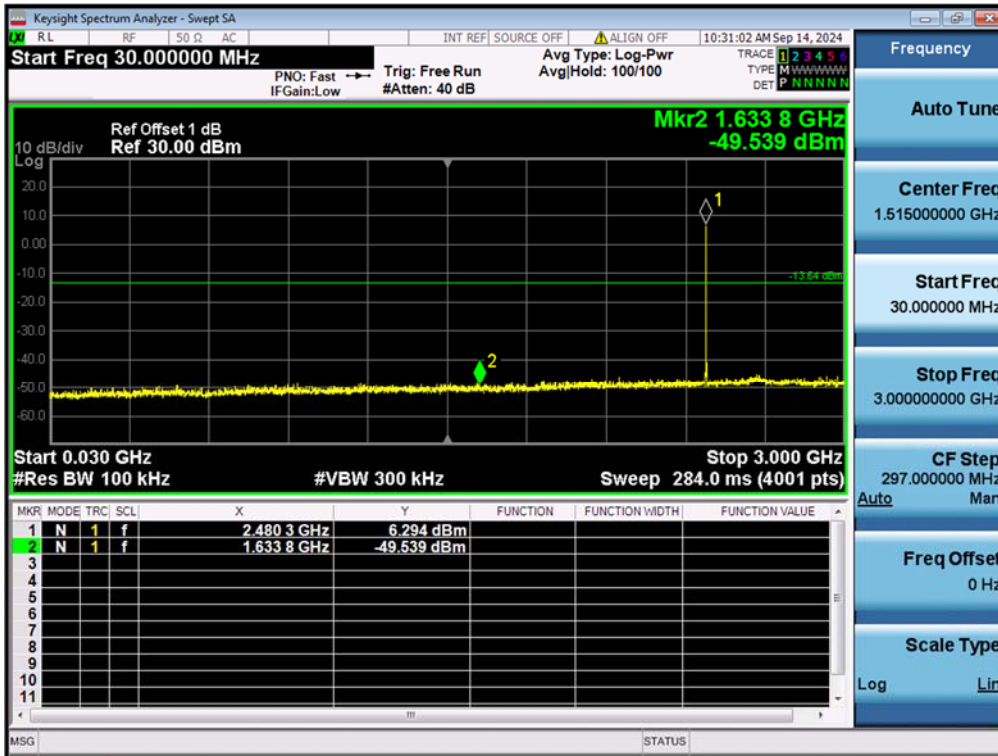


Page 35 of 81

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE

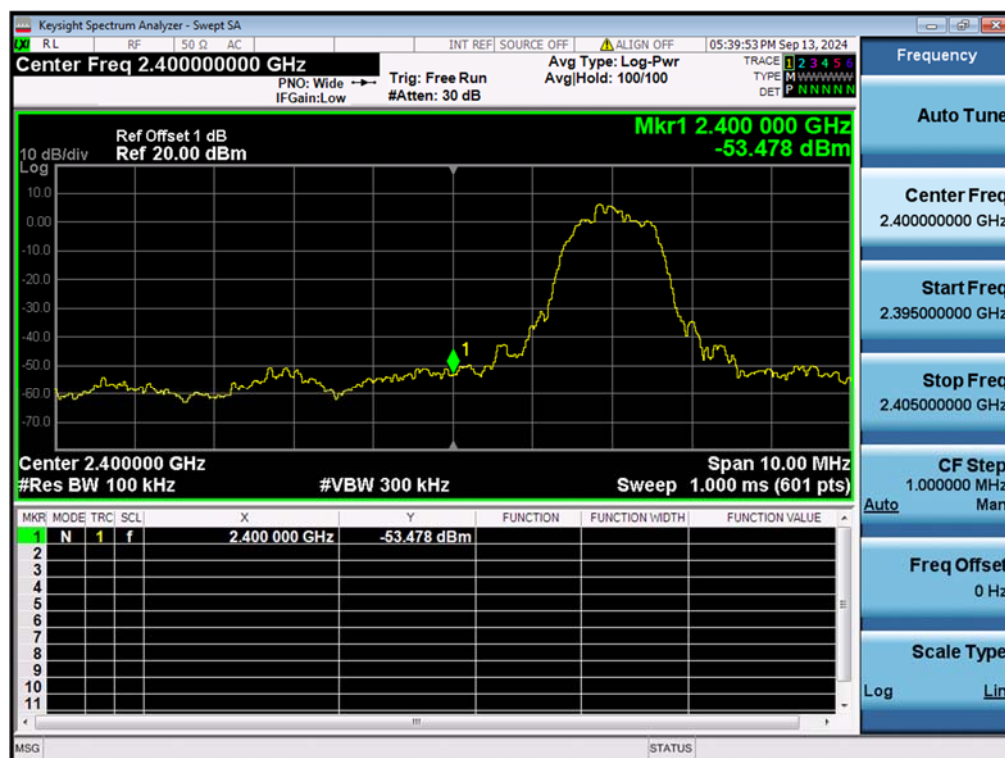
Date: 2024-11-07

Page 36 of 81

Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK Carrier Level



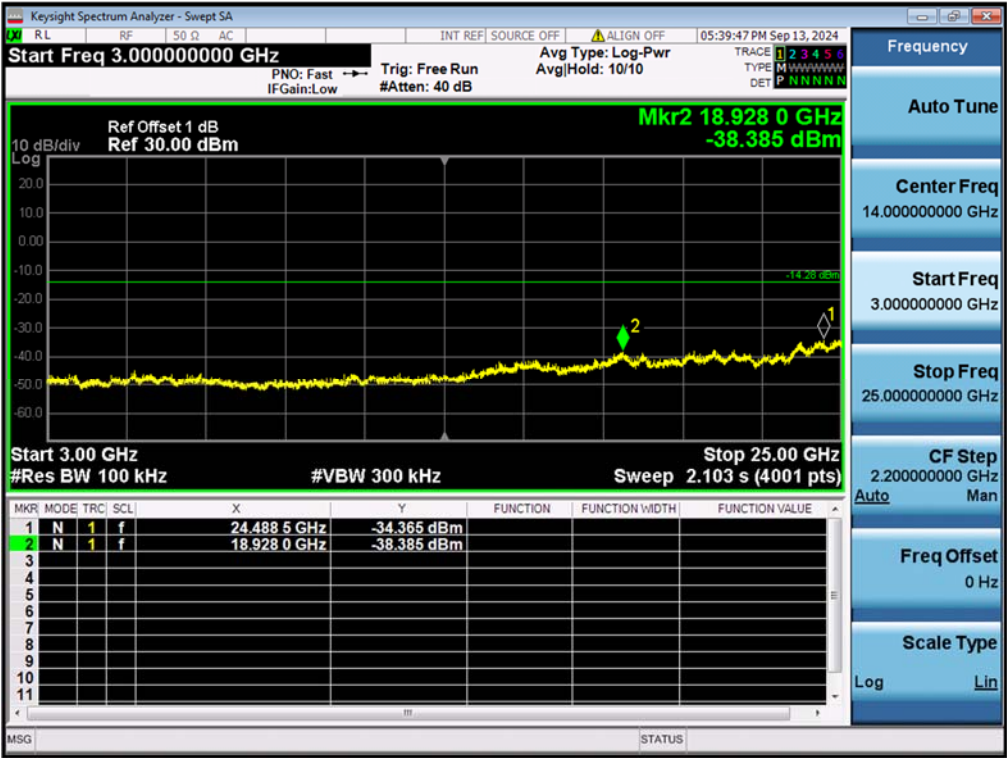
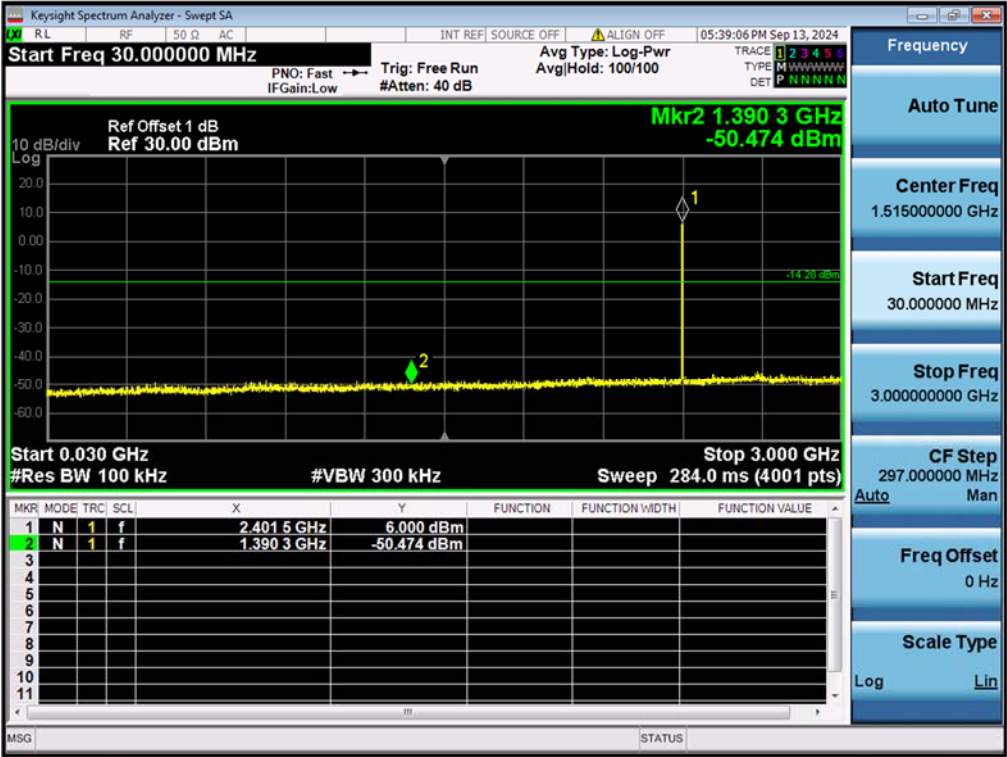
Band Edge



TEST REPORT

Report No.: SHE24080045-02CE Date: 2024-11-07 Page 37 of 81

Conducted spurious emissions 30MHz-25GHz



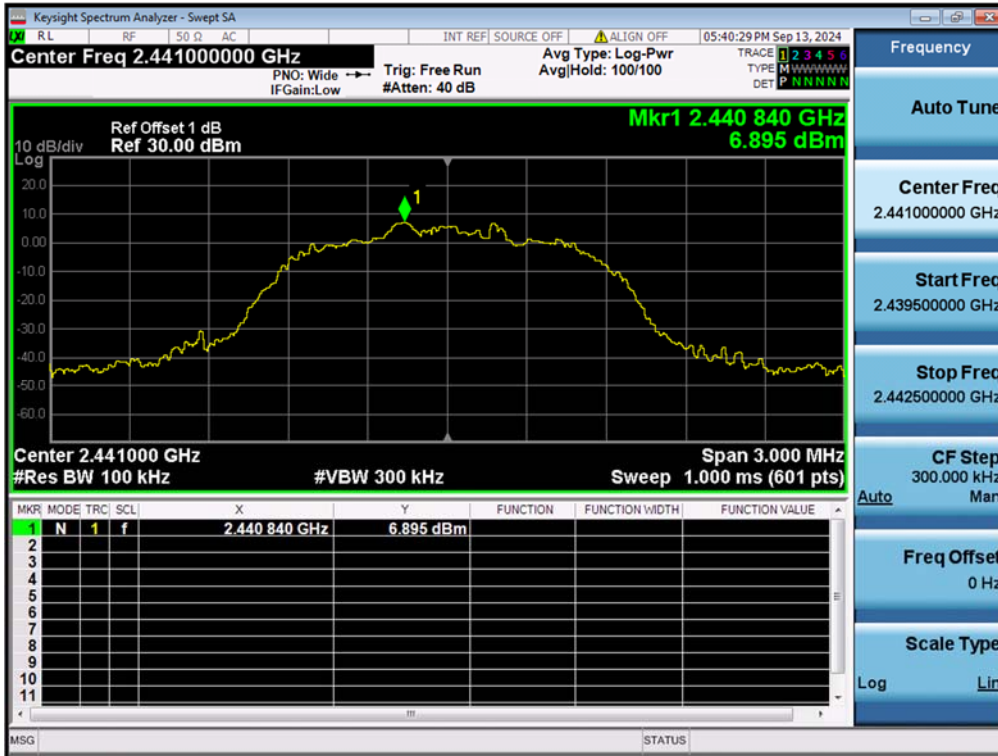
TEST REPORT

Report No.: SHE24080045-02CE

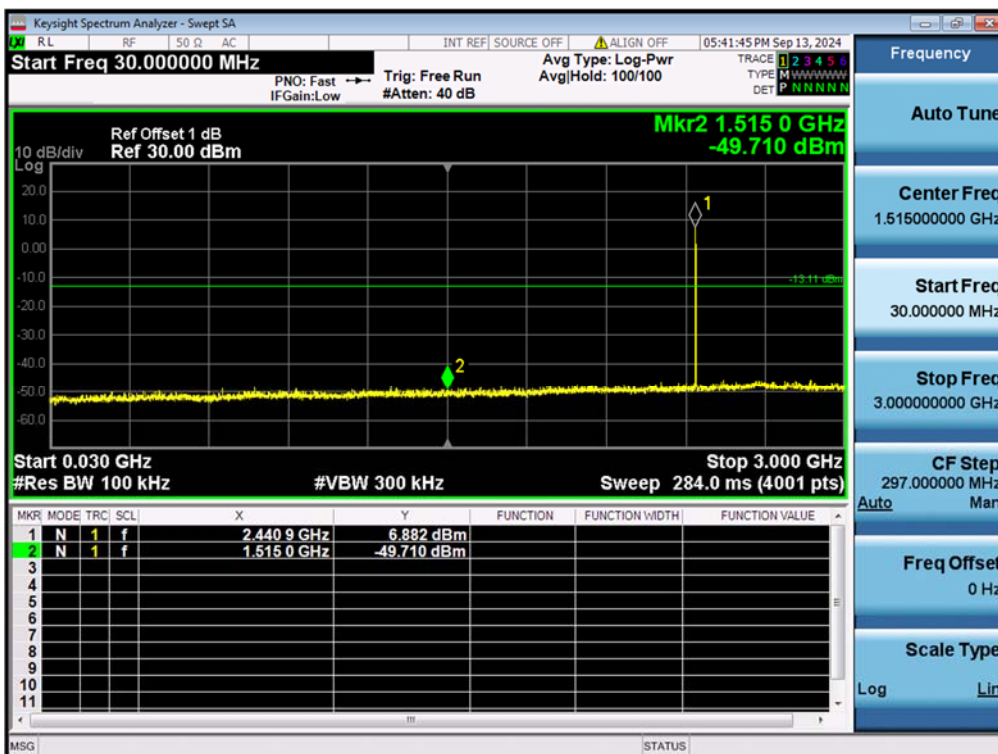
Date: 2024-11-07

Page 38 of 81

Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK
Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 39 of 81

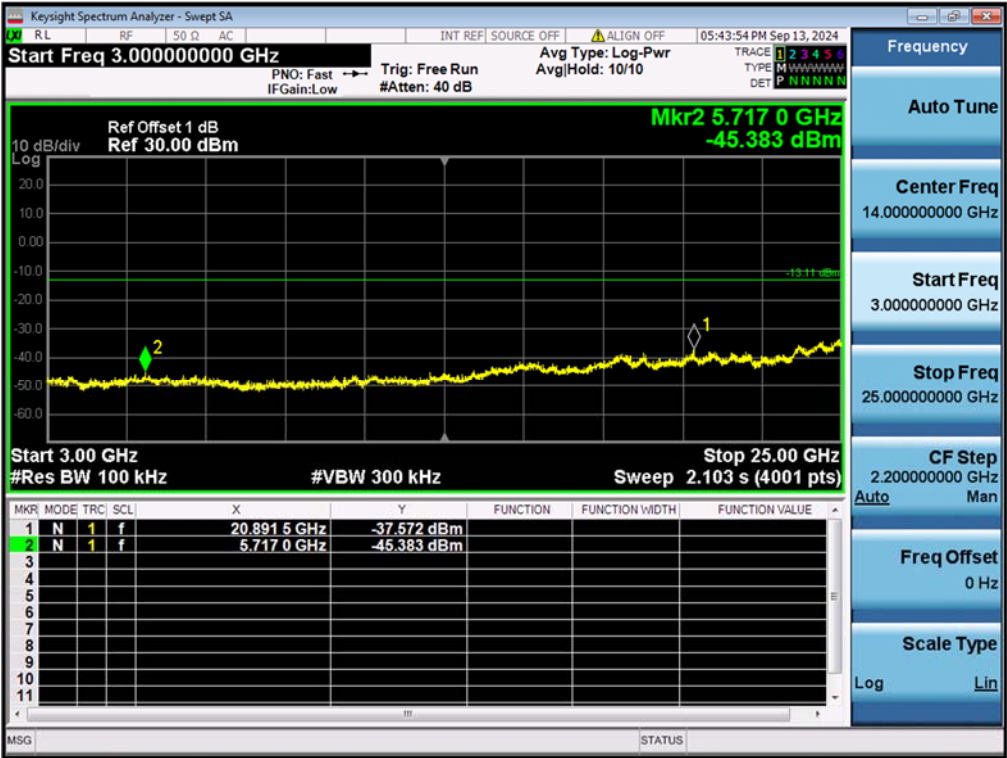
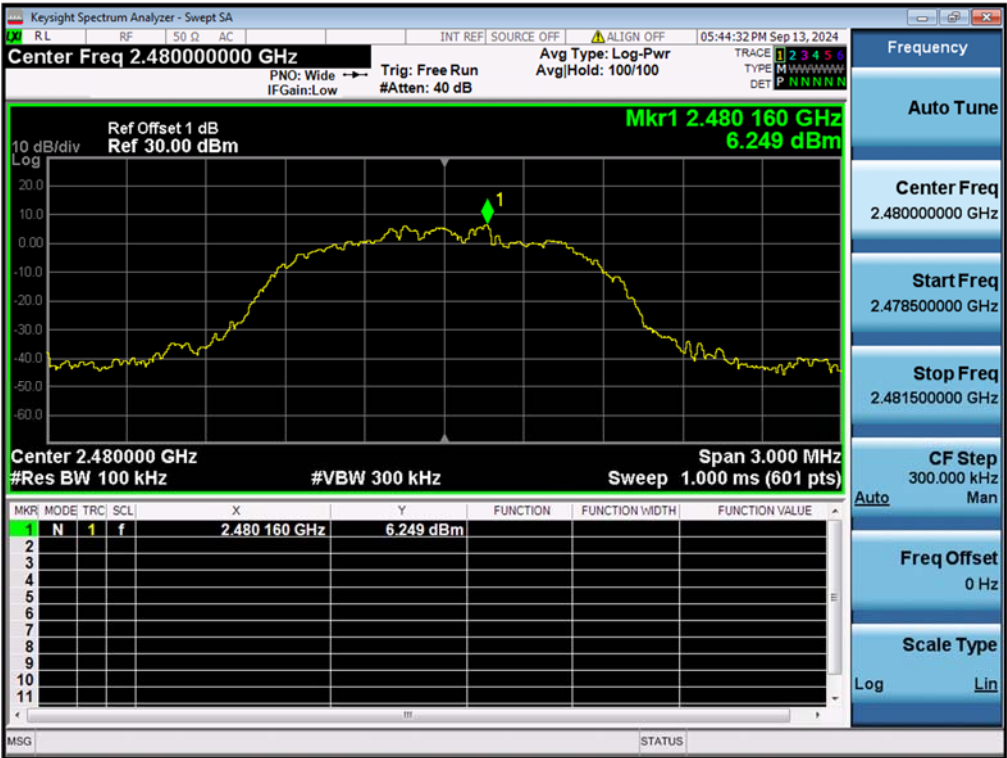


Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Carrier Level



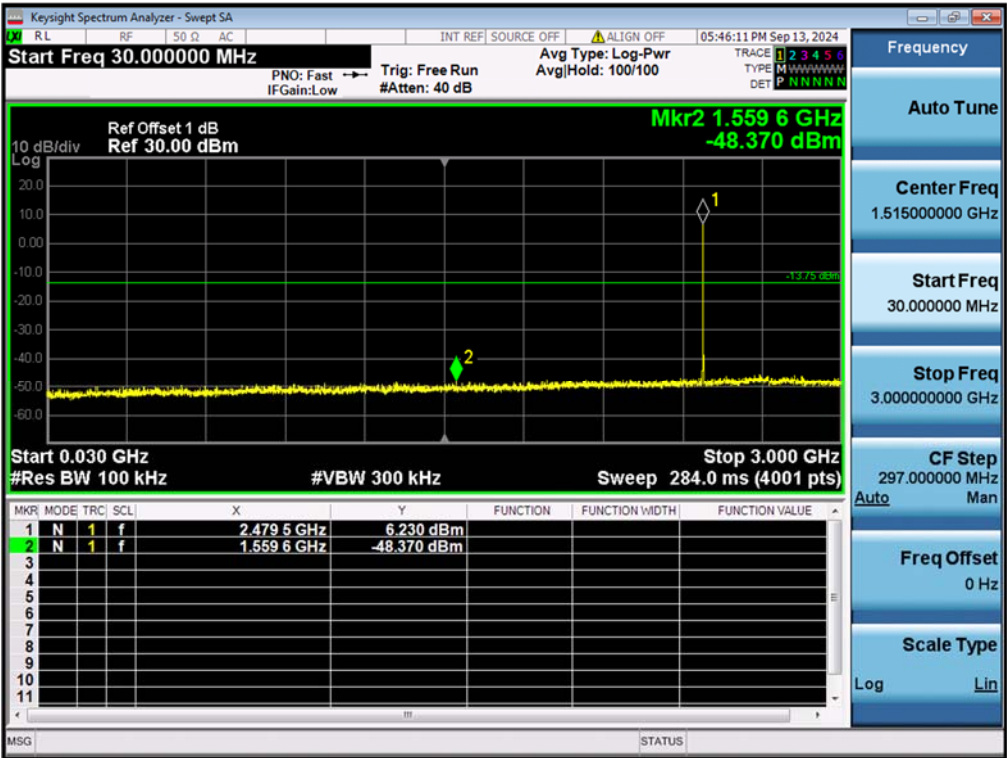
TEST REPORT

Report No.: SHE24080045-02CE Date: 2024-11-07 Page 40 of 81

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 41 of 81

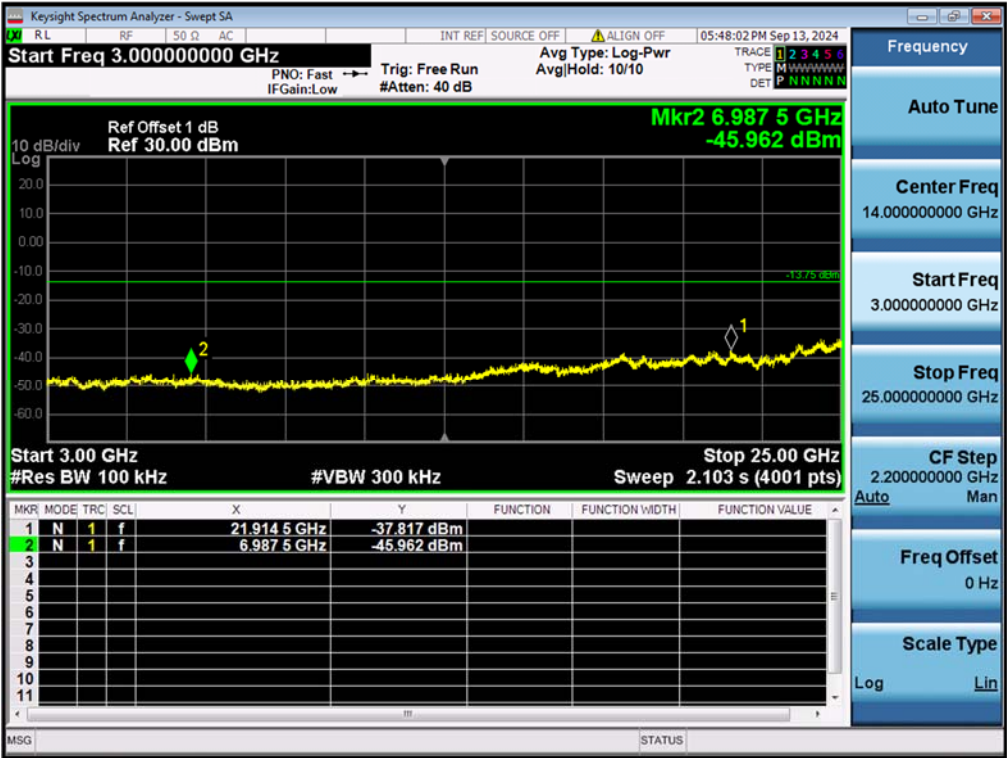
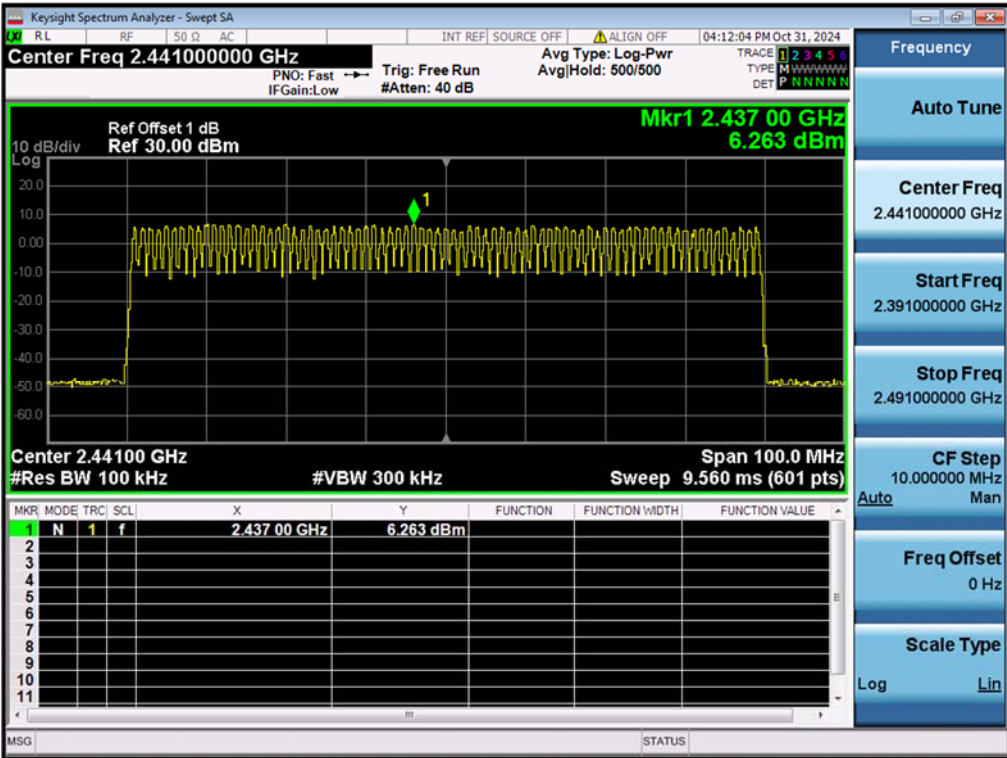


Figure 28: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, GFSK Carrier Level



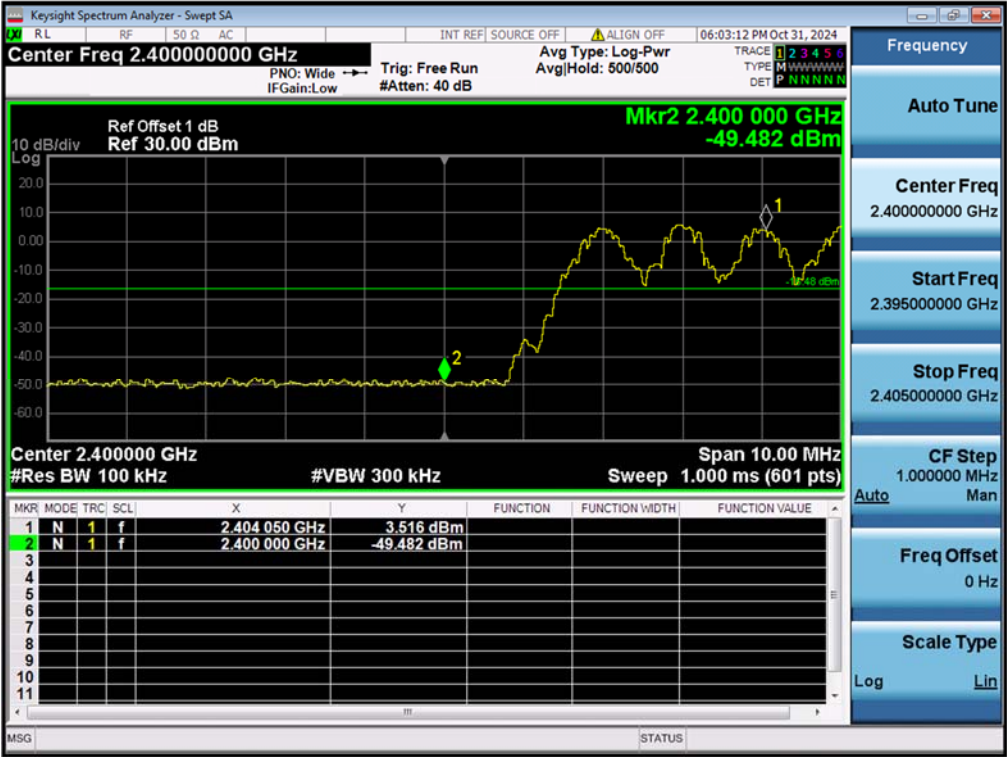
TEST REPORT

Report No.: SHE24080045-02CE

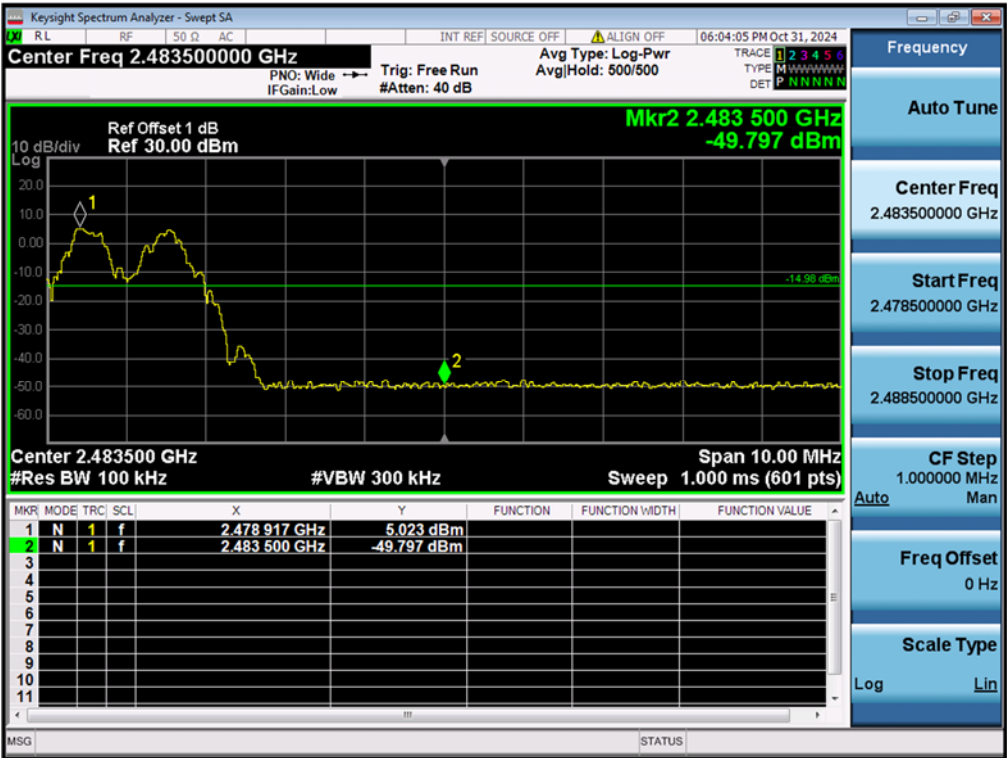
Date: 2024-11-07

Page 42 of 81

Band Edge(Low)



Band Edge(High)



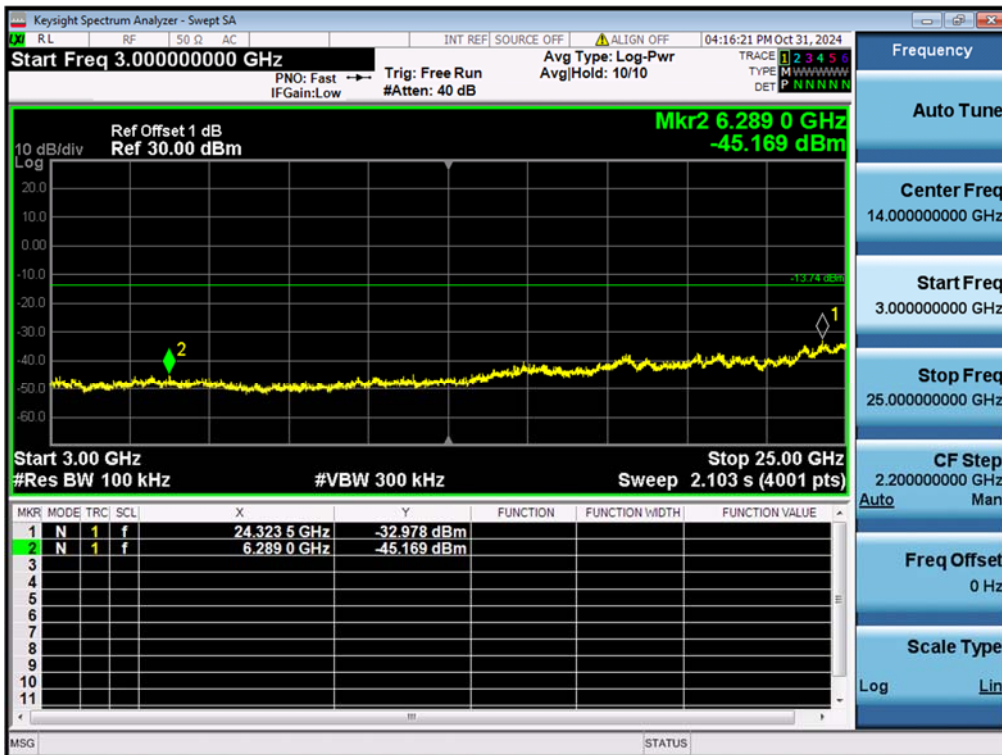
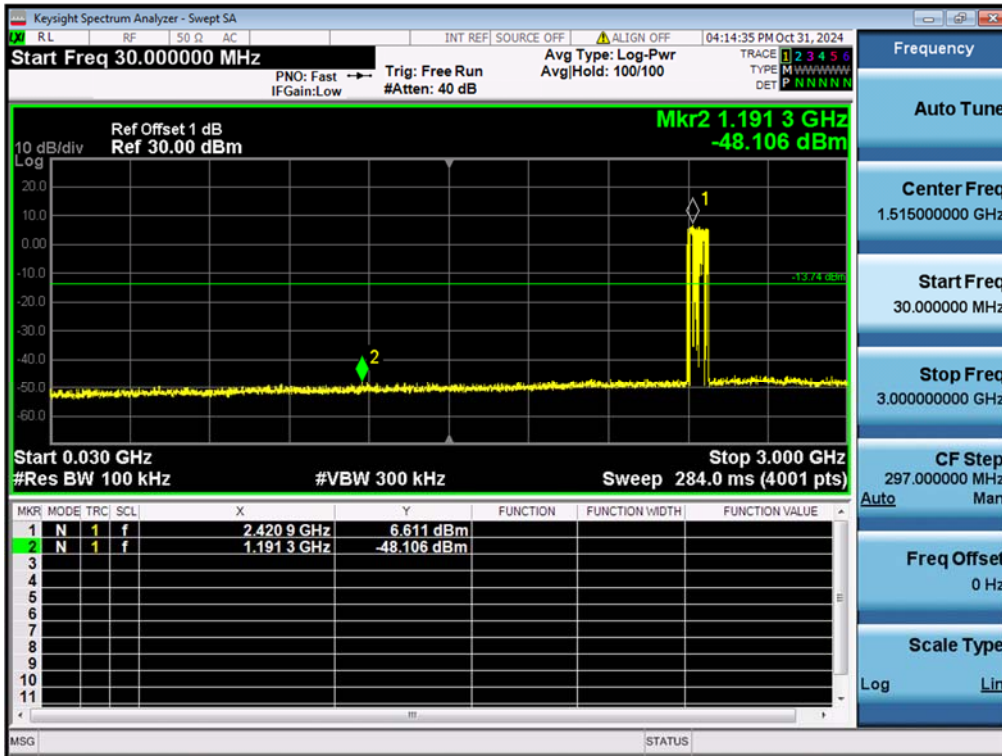
TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 43 of 81

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE

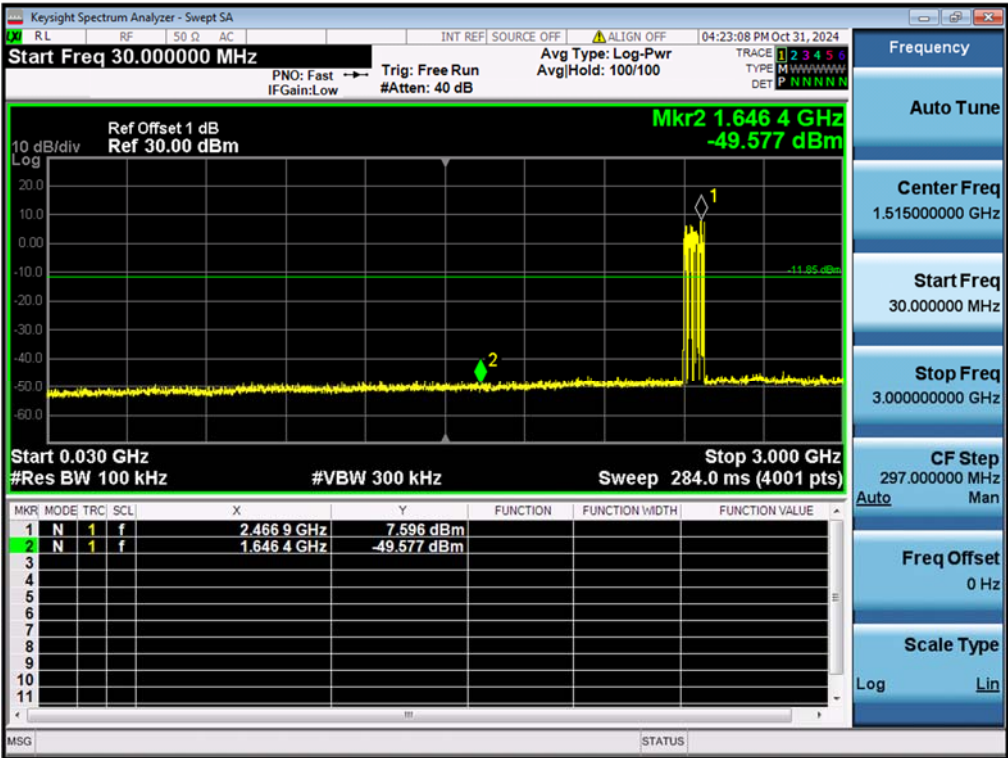
Date: 2024-11-07

Page 45 of 81

Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE Date: 2024-11-07 Page 46 of 81

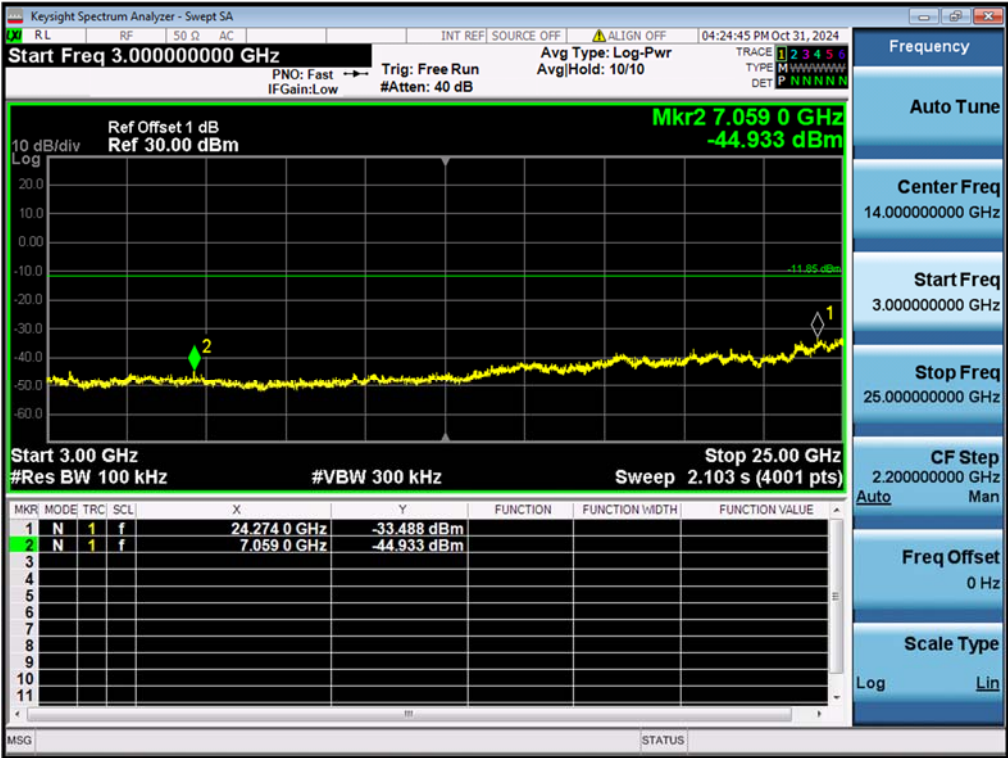
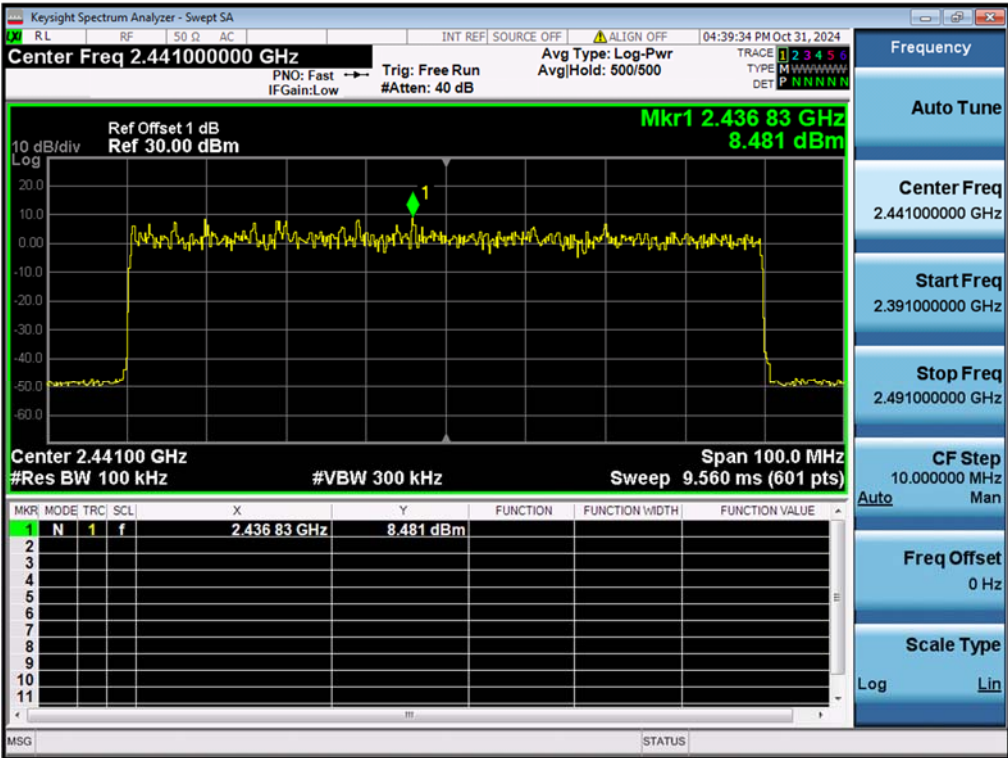


Figure 30: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, 8-DPSK Carrier Level



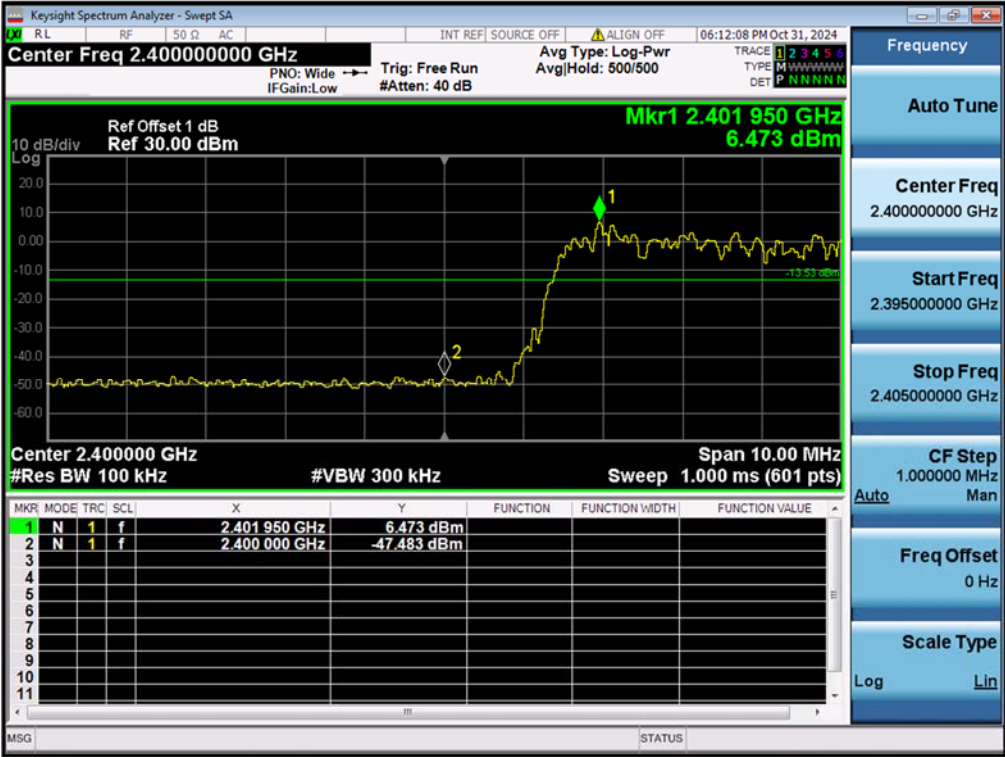
TEST REPORT

Report No.: SHE24080045-02CE

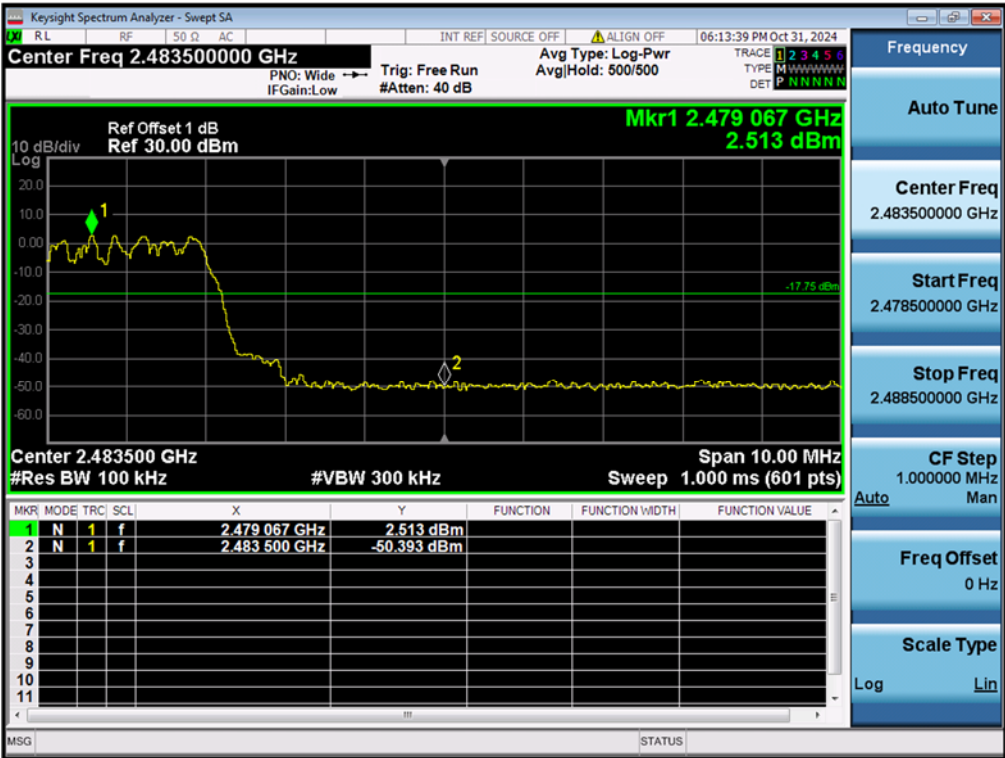
Date: 2024-11-07

Page 47 of 81

Band Edge(Low)



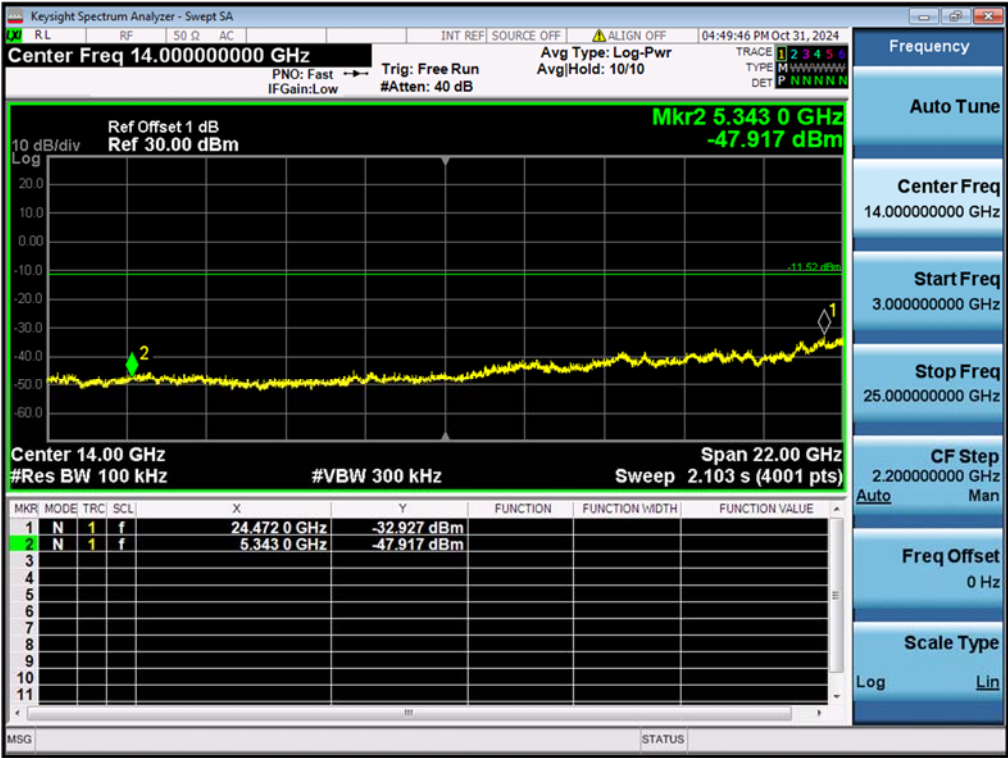
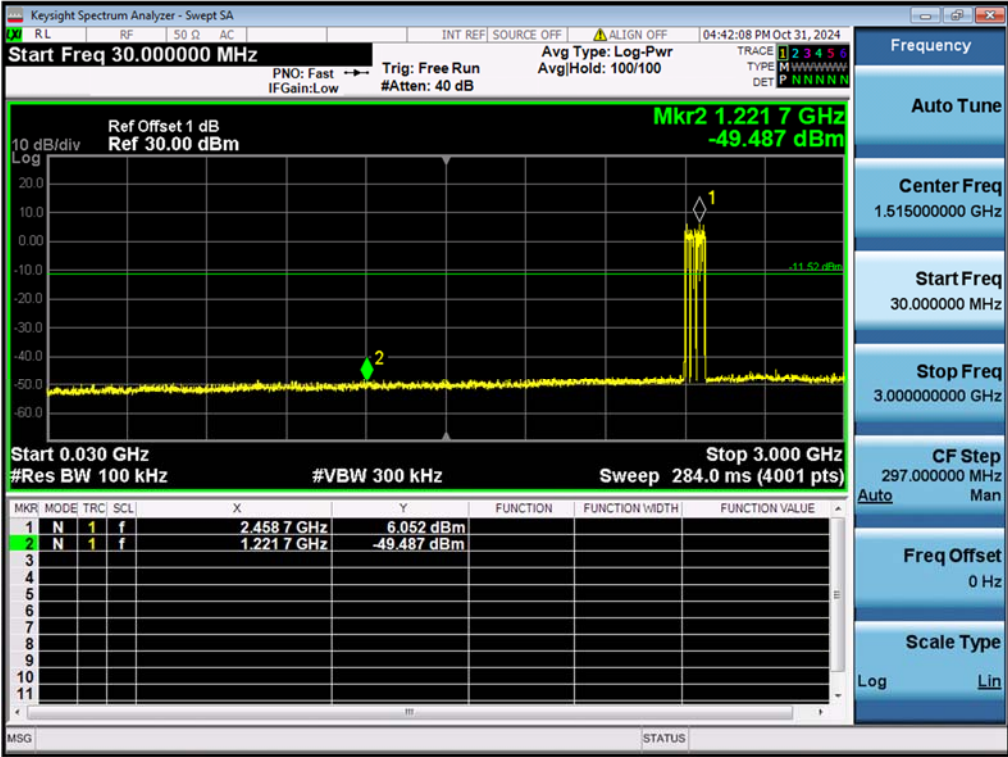
Band Edge(High)



TEST REPORT

Report No.: SHE24080045-02CE Date: 2024-11-07 Page 48 of 81

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 49 of 81

4.1.5 Radiated Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209
Requirement : ANSI C63.10-2013, Clause 7.8.8
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A
Ambient temperature : 22.5°C
Relative humidity : 47%

Notes

Test plots please refer to the annex document "SHE24080045-02CE DATA BR&EDR-TX EXHIBIT A".

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. All test mode had been pre-test. Only the worst mode data of GFSK&8DPSK-hopping-DH5 and GFSK&8DPSK_Middle channel (below 1GHz) were recorded in the test report.
4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 50 of 81

4.1.6 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, Clause 7.8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/High
Operation Mode	: A.1
Ambient temperature	: 22.5°C
Relative humidity	: 47%

Notes

1. Test plots please refer to the annex document “SHE24080045-02CE DATA BR&EDR-TX EXHIBIT A”.
2. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 51 of 81

4.1.7 Hopping Frequency Separation

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)

Requirement : ANSI C63.10-2013, Clause 7.8.2
KDB 558074 D01 v05r02, Clause 2.2

Kind of test site : Shielded room

Test setup

Test Channel : Hopping

Operation Mode : A.1.a.iv

Ambient temperature : 24.7°C

Relative humidity : 38%

Table 3: Hopping Frequency Separation

Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	2441	0.995	0.9630
π /4-DQPSK	2441	1.030	0.8347
8-DPSK	2441	1.012	0.8480

*Note: The systems operate with an output power no greater than 125mW (π /4-DQPSK, 8-DPSK).

TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 52 of 81

Figure 31: Hopping Frequency Separation, Hopping Mode, GFSK

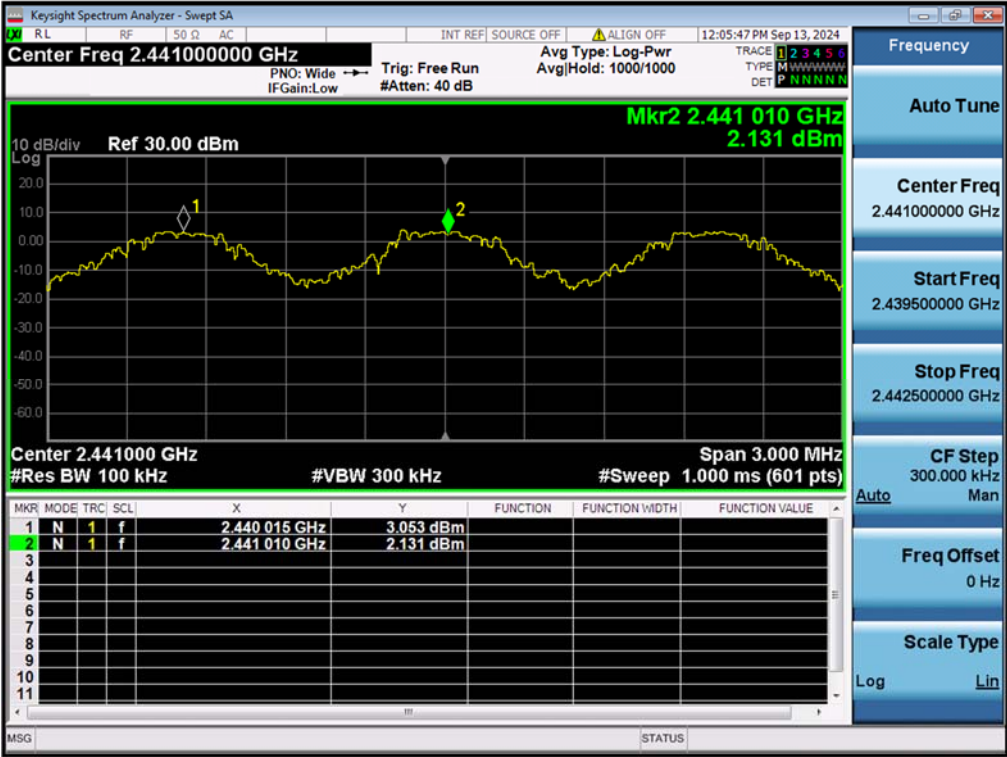
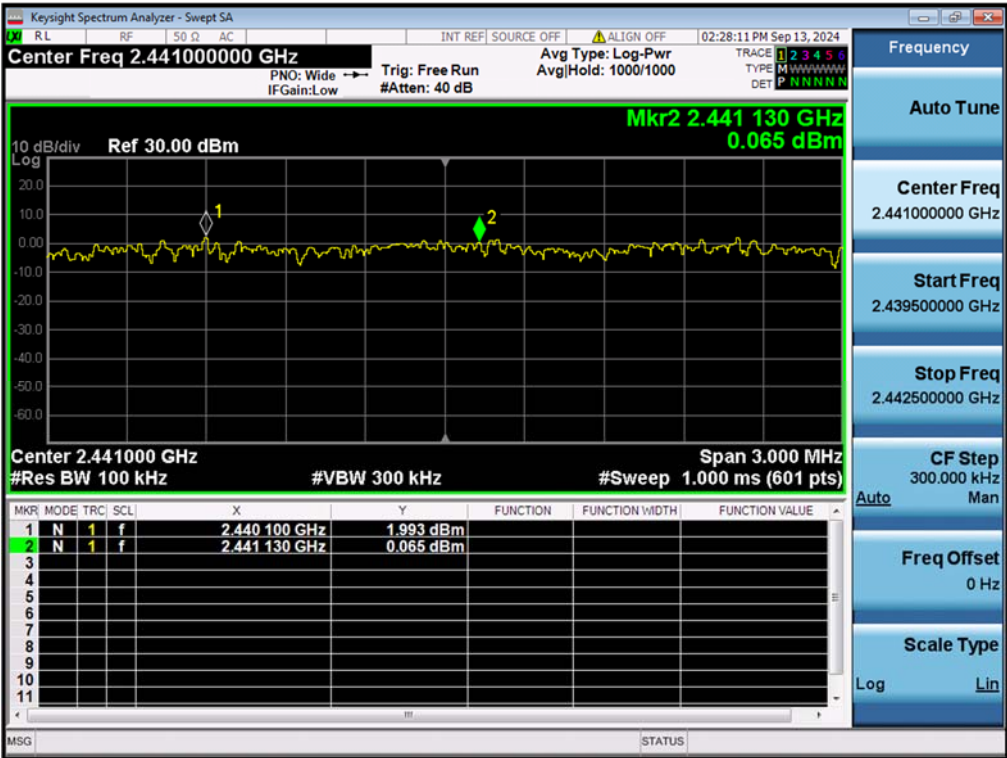


Figure 32: Hopping Frequency Separation, Hopping Mode, $\pi/4$ -DQPSK



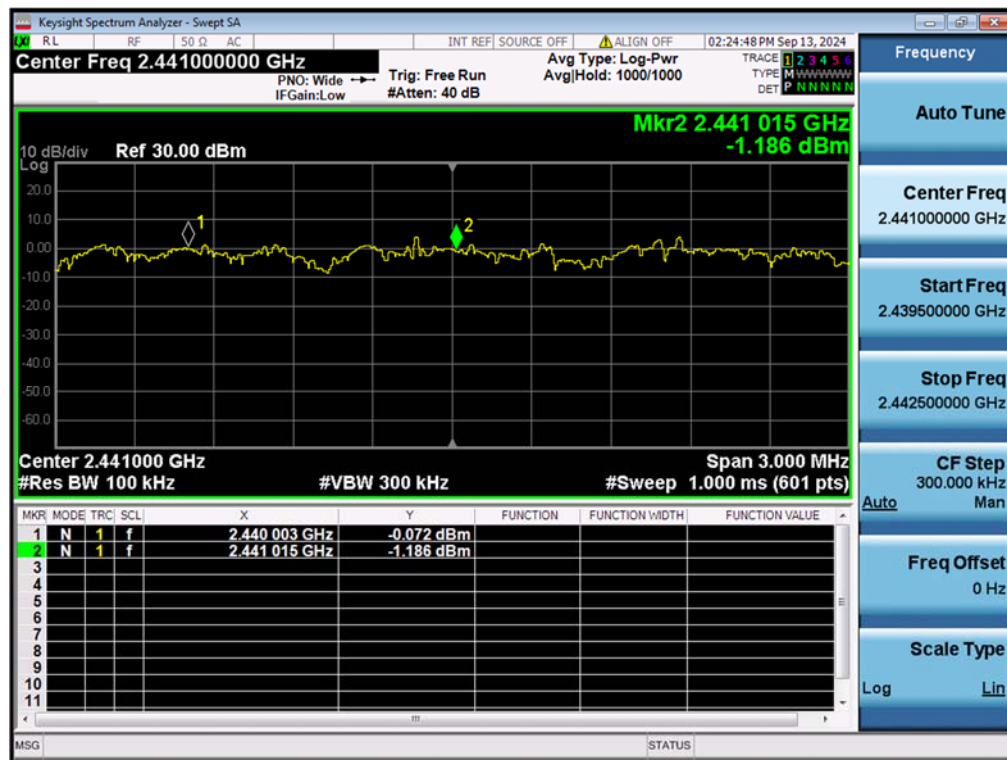
TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 53 of 81

Figure 33: Hopping Frequency Separation, Hopping Mode, 8DPSK



TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 54 of 81

4.1.8 Number of Hopping Frequency

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)(iii)

Requirement : ANSI C63.10-2013, Clause 7.8.3
KDB 558074 D01 v05r02, Clause 2.2

Kind of test site : Shielded room

Test setup

Test Channel : Hopping

Operation Mode : A.1.a.iv

Ambient temperature : 24.7°C

Relative humidity : 38%

Table 4: Number of Hopping Frequency

Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
GFSK	2400 – 2483.5	79	≥15
π /4-DQPSK	2400 – 2483.5	79	≥15
8-DPSK	2400 – 2483.5	79	≥15

TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 55 of 81

Figure 34: Number of Hopping Frequency, Hopping Mode, GFSK

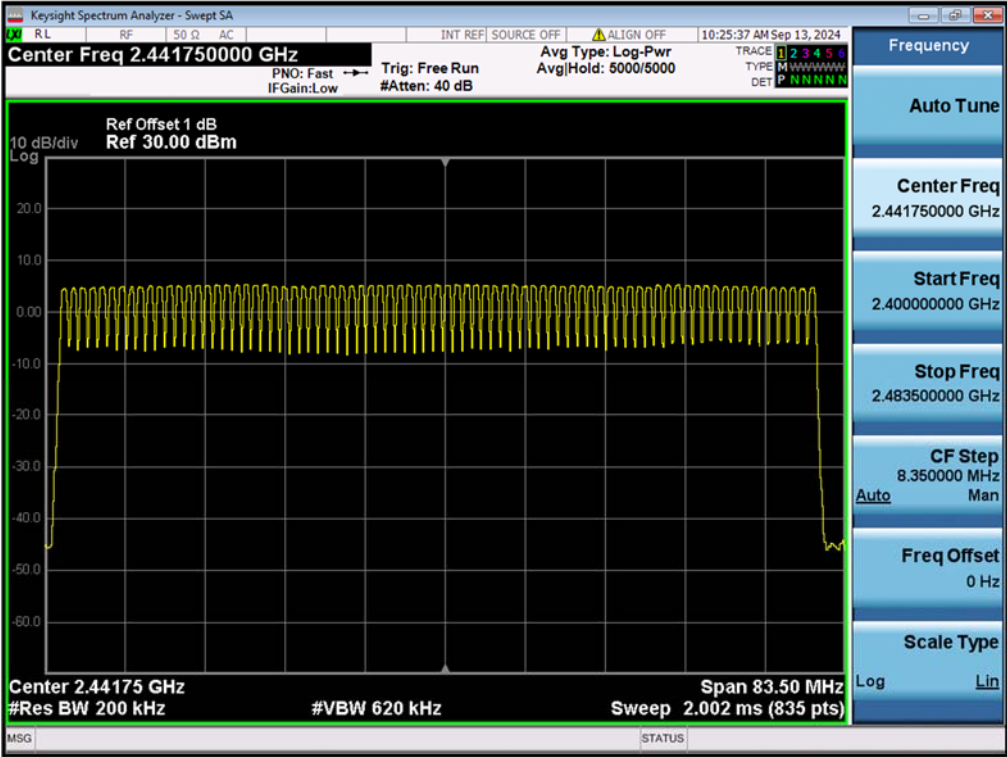
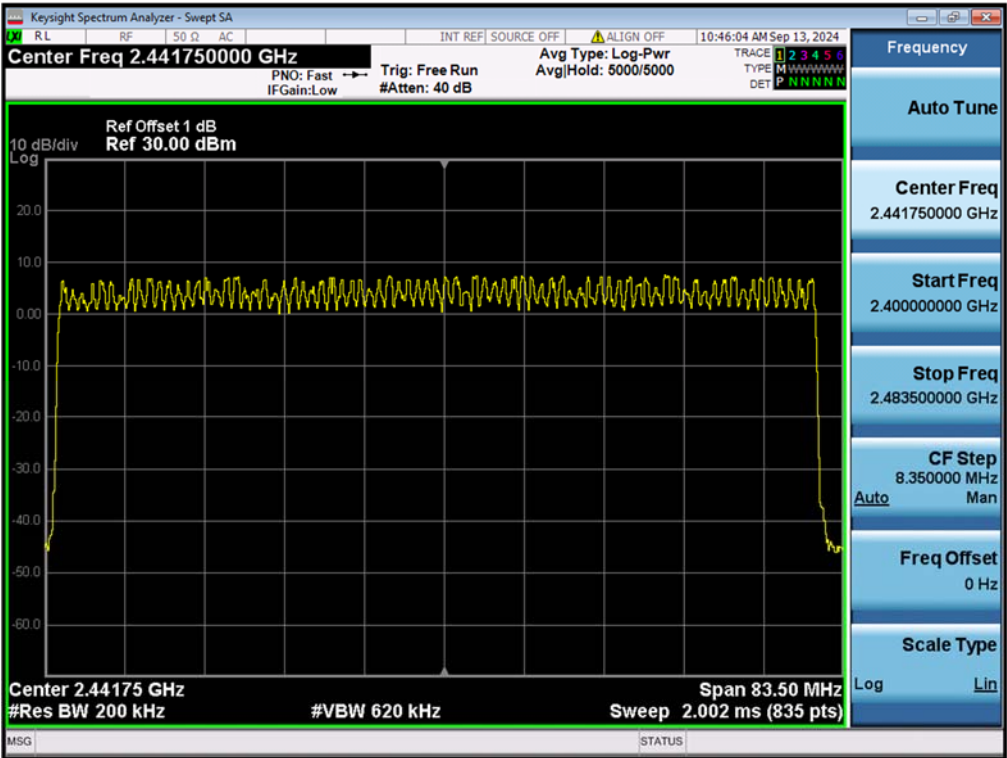


Figure 35: Number of Hopping Frequency, Hopping Mode, $\pi/4$ -DQPSK



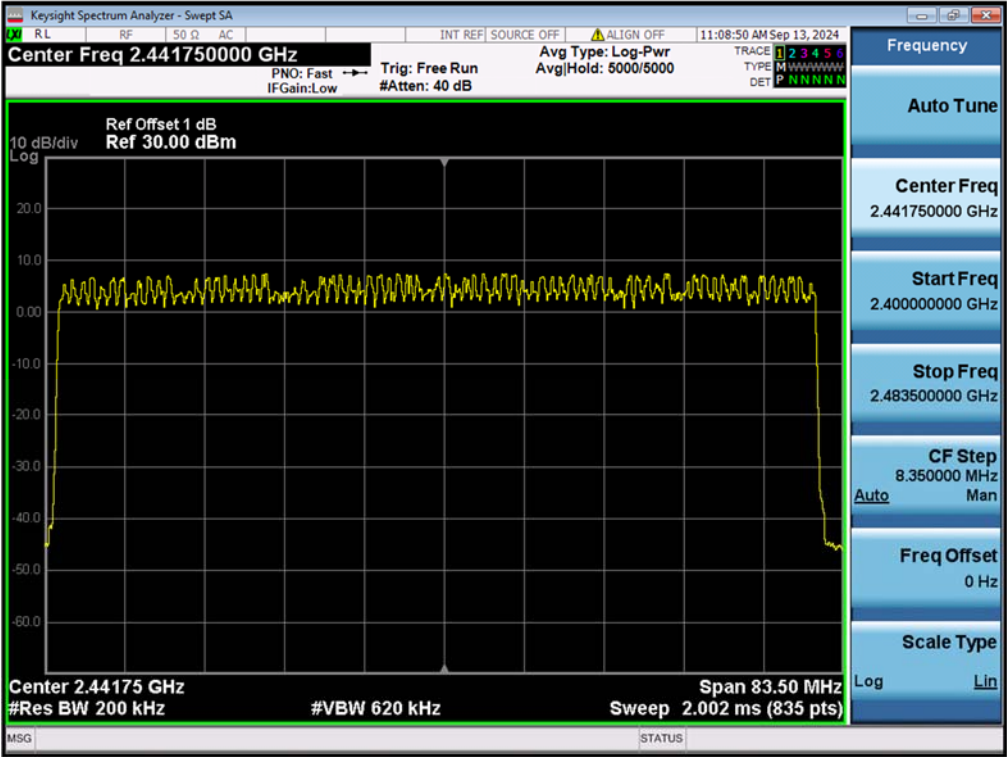
TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 56 of 81

Figure 36: Number of Hopping Frequency, Hopping Mode, 8-DPSK



TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 57 of 81

4.1.9 Time of Occupancy

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)(iii)

Requirement : ANSI C63.10-2013, Clause 7.8.4
KDB 558074 D01 v05r02, Clause 2.2

Kind of test site : Shielded room

Test setup

Test Channel : Middle

Operation Mode : A.1.a

Ambient temperature : 24.7°C

Relative humidity : 38%

Table 5: Time of Occupancy

Mode	Packet Type	Pulse Time (ms)	Total of Dwell Time (ms)	Total of Dwell Time (s)	Limit (s)
GFSK	DH1	0.3800	121.600	0.1216	0.4
	DH3	1.6400	262.400	0.2624	0.4
	DH5	2.8870	307.947	0.3079	0.4
π /4-DQPSK	DH1	0.3883	124.256	0.1243	0.4
	DH3	1.6400	262.400	0.2624	0.4
	DH5	2.8870	307.947	0.3079	0.4
8-DPSK	DH1	0.3883	124.256	0.1243	0.4
	DH3	1.6350	261.600	0.2616	0.4
	DH5	2.8870	307.947	0.3079	0.4

Note:

For DH1 package type:
Total of Dwell = Pulse Time*(1600/2)/Number of Hopping Frequency*Period
Period = 0.4* Number of Hopping Frequency

For DH3 package type:
Total of Dwell = Pulse Time*(1600/4)/Number of Hopping Frequency*Period
Period = 0.4* Number of Hopping Frequency

For DH5 package type:
Total of Dwell = Pulse Time*(1600/6)/Number of Hopping Frequency*Period
Period = 0.4* Number of Hopping Frequency

TEST REPORT

Report No.: SHE24080045-02CE

Date: 2024-11-07

Page 58 of 81

Figure 37: Time of Occupancy, 2441MHz, GFSK DH1

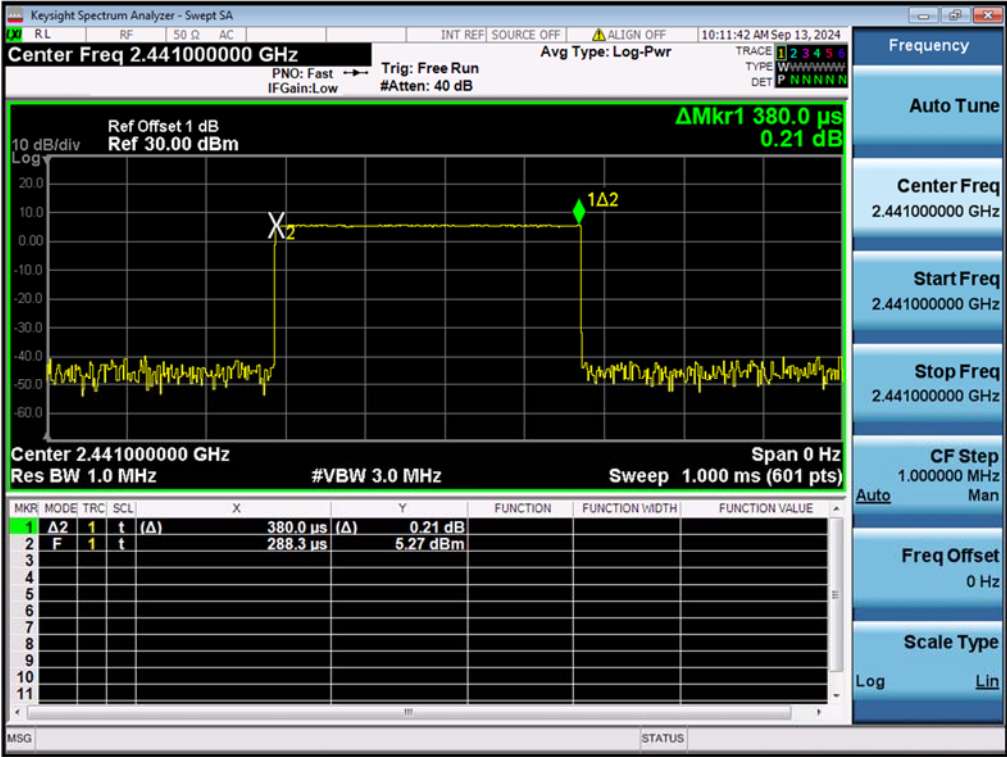


Figure 38: Time of Occupancy, 2441MHz, GFSK DH3

