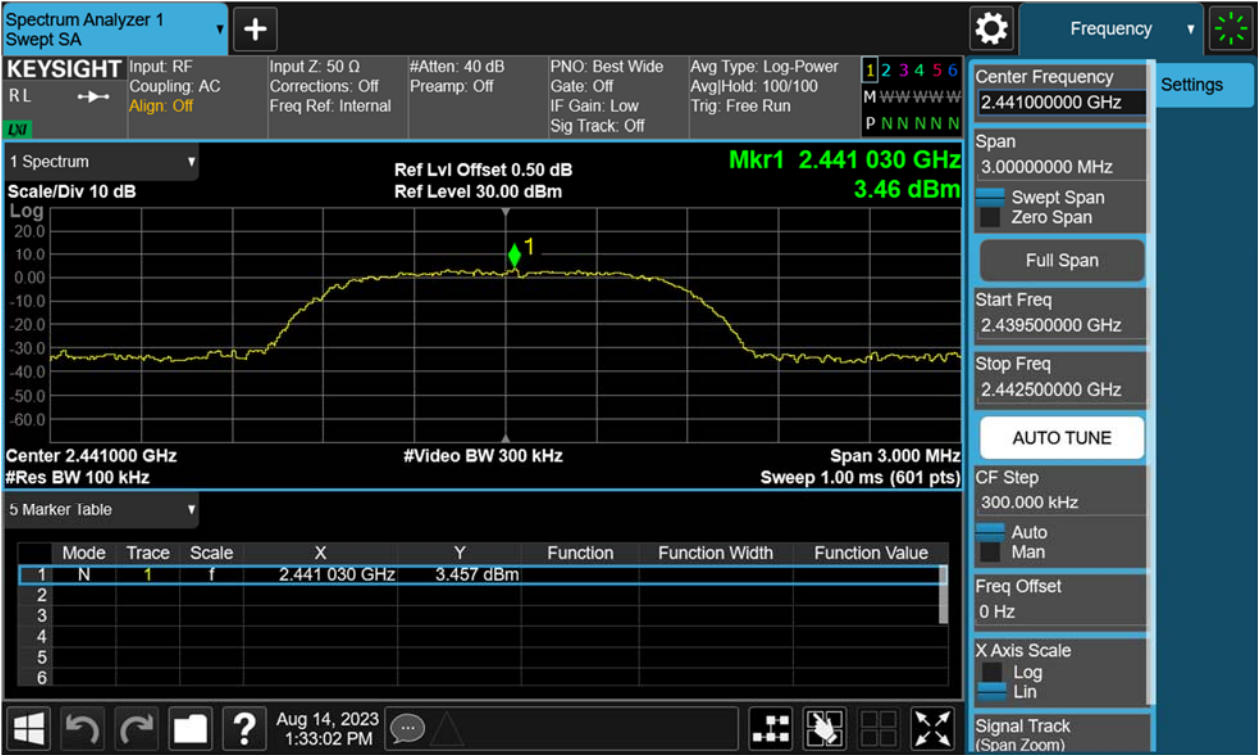


TEST REPORT

Report No.: SHE23060106-01CE Date: 2023-09-15 Page 31 of 70



Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, $\pi/4$ -DQPSK Carrier Level



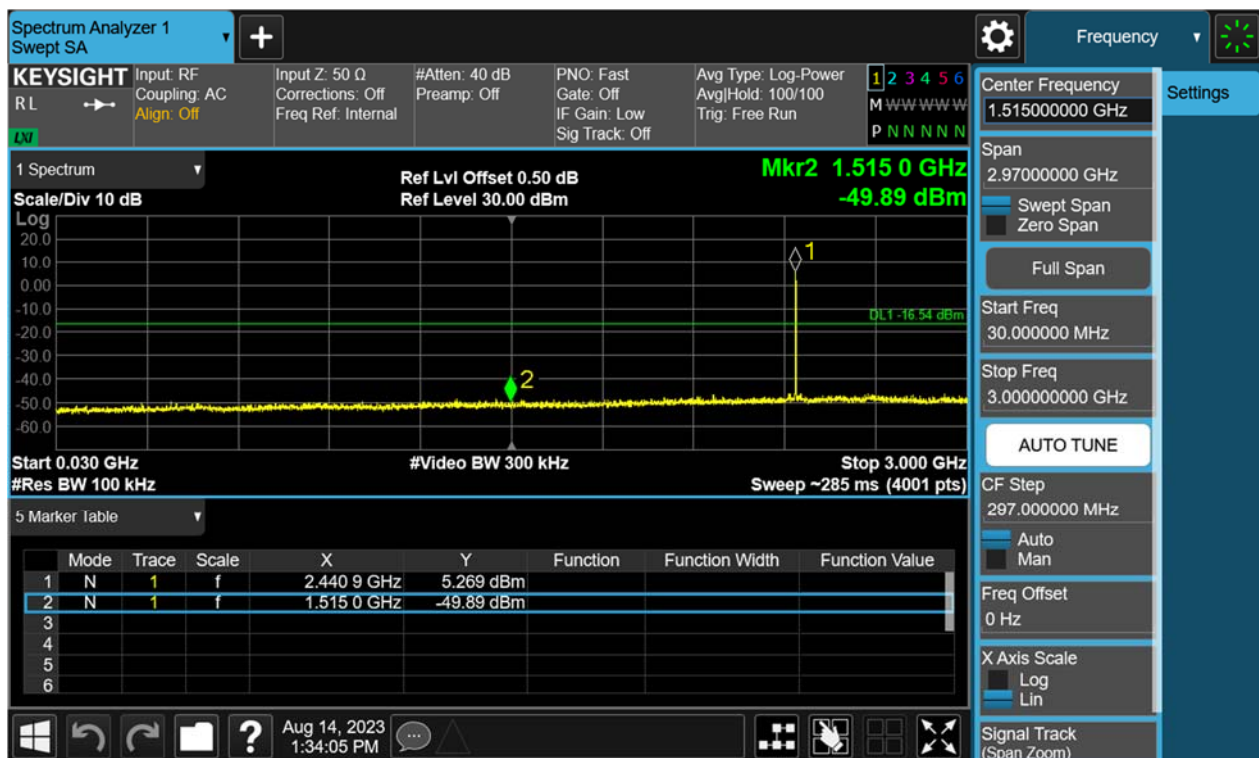
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 32 of 70

Conducted spurious emissions 30MHz-25GHz



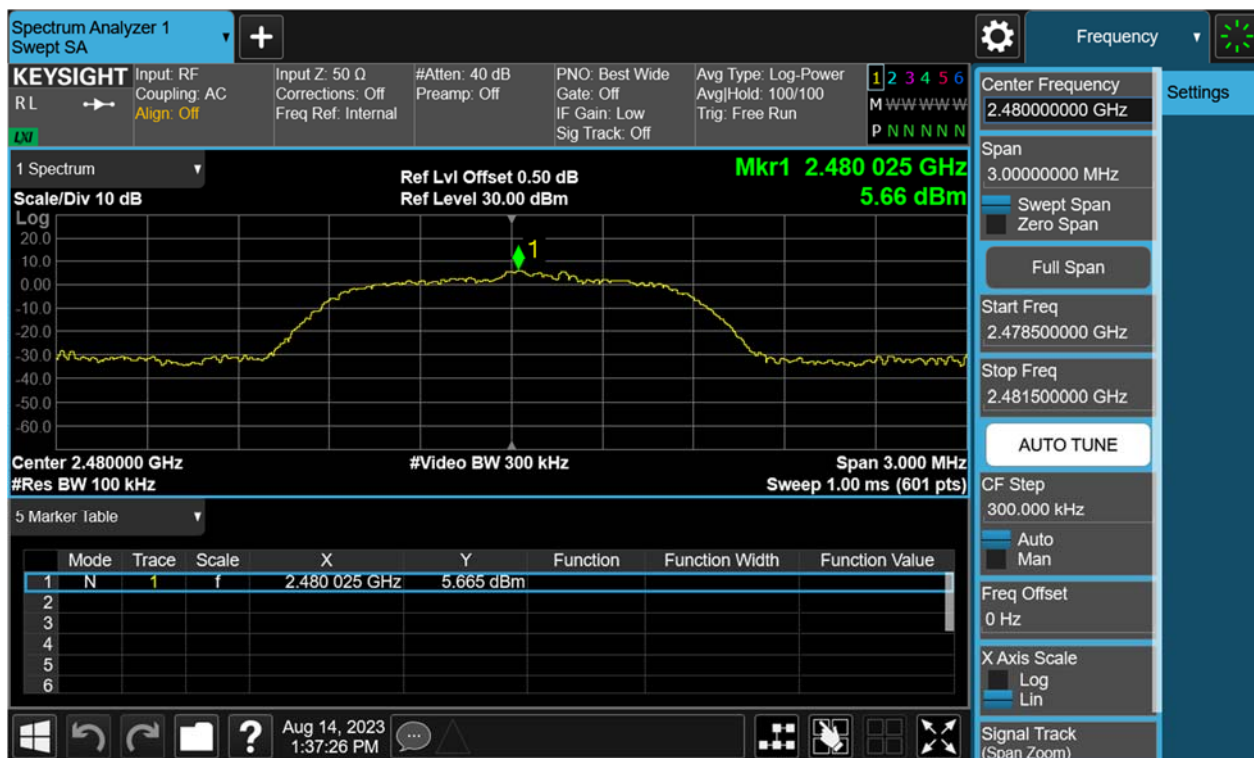
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 33 of 70

Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, $\pi/4$ -DQPSK Carrier Level



Band Edge



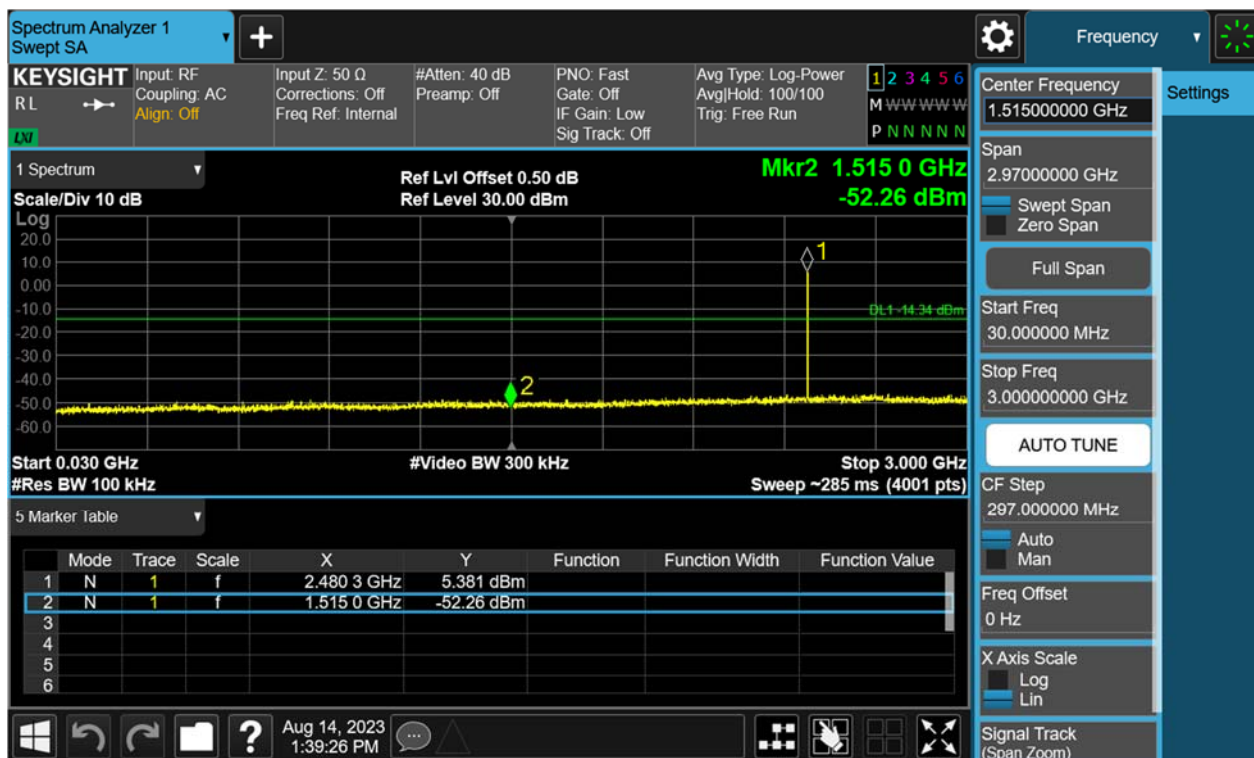
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 34 of 70

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01CE

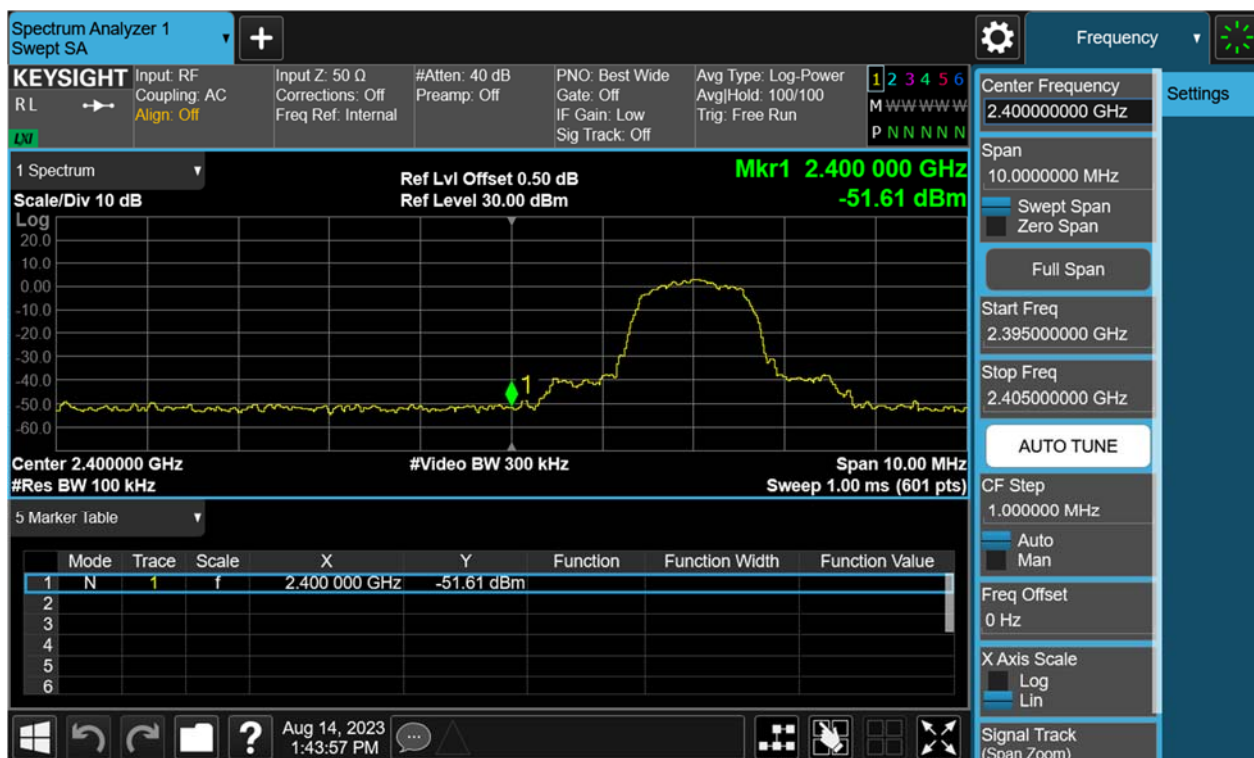
Date: 2023-09-15

Page 35 of 70

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



Band Edge



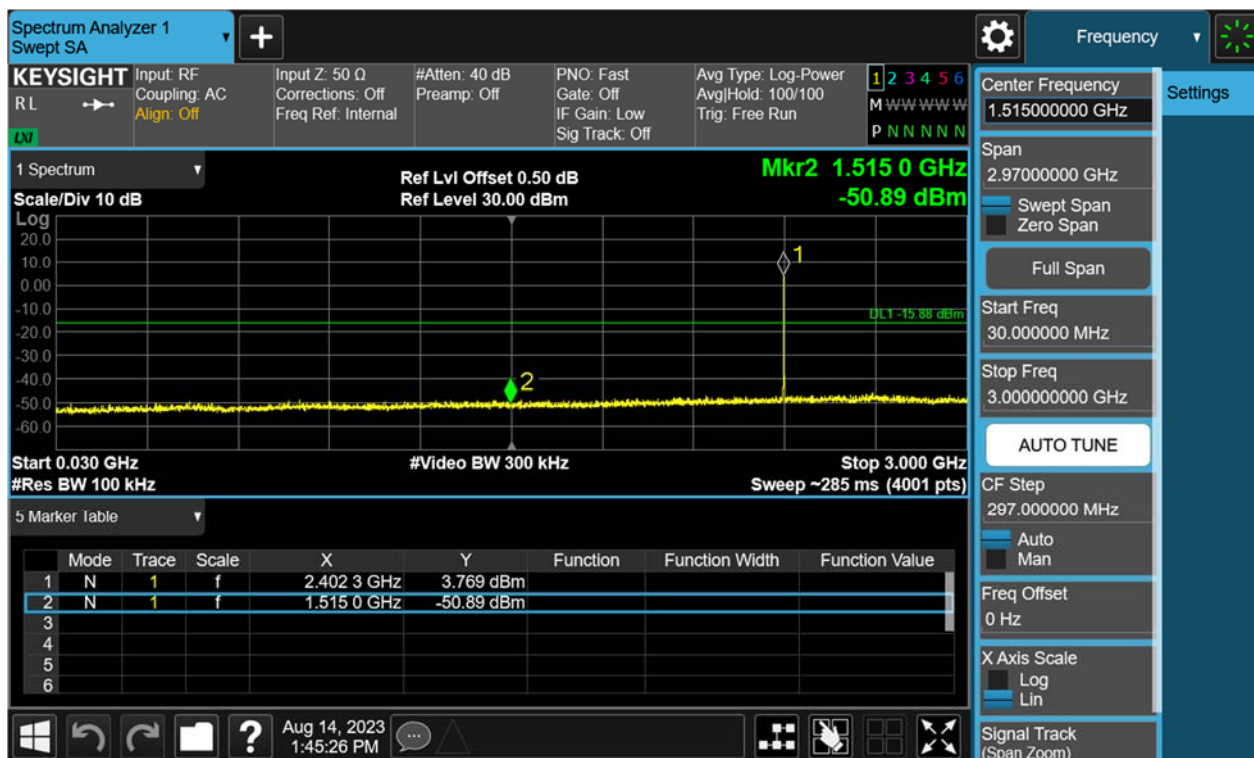
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 36 of 70

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01CE

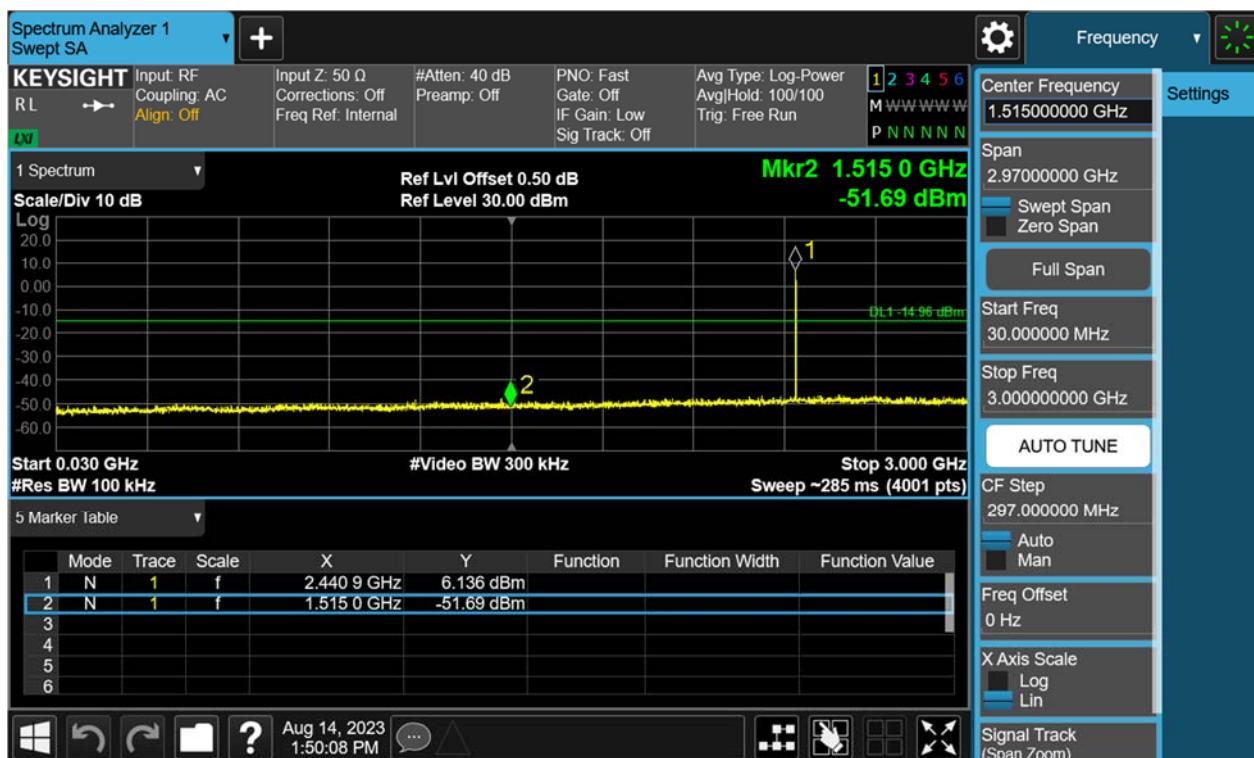
Date: 2023-09-15

Page 37 of 70

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



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.:

SHE23060106-01CE

Date:

2023-09-15

Page 38 of 70



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



TEST REPORT

Report No.: SHE23060106-01CE

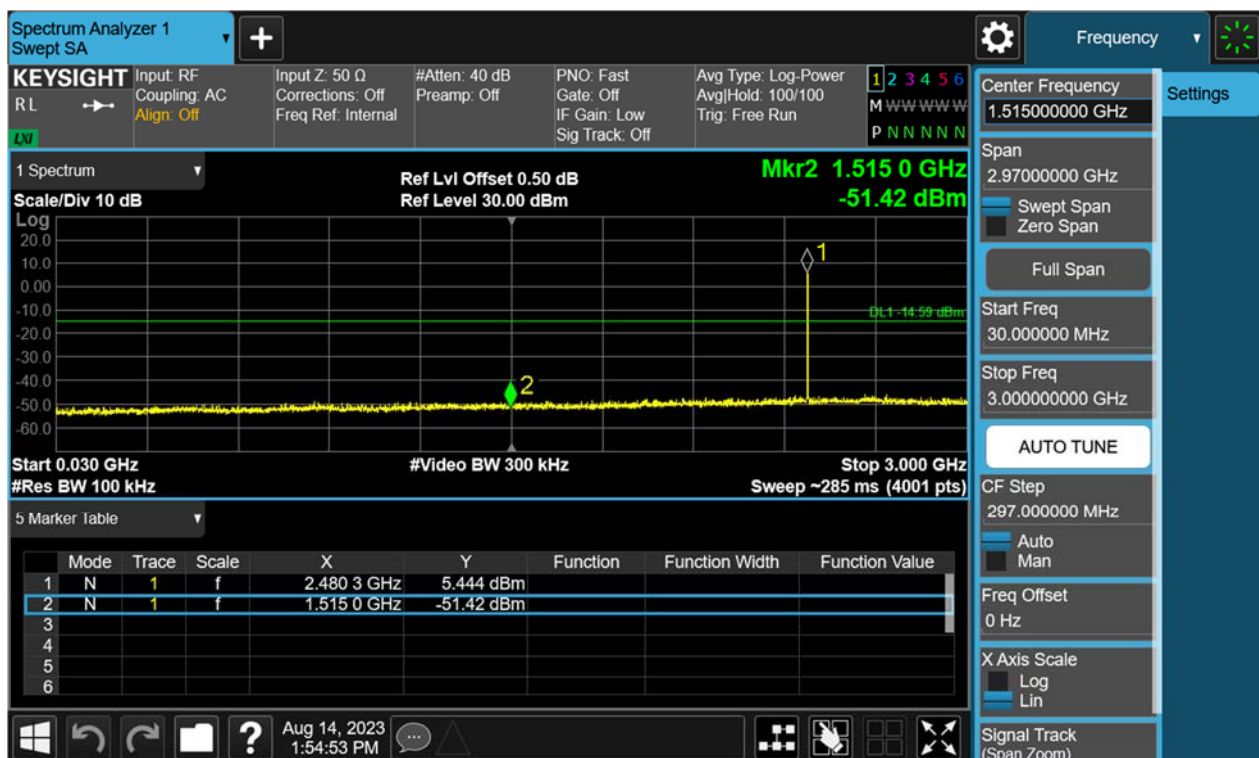
Date: 2023-09-15

Page 39 of 70

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.:

SHE23060106-01CE

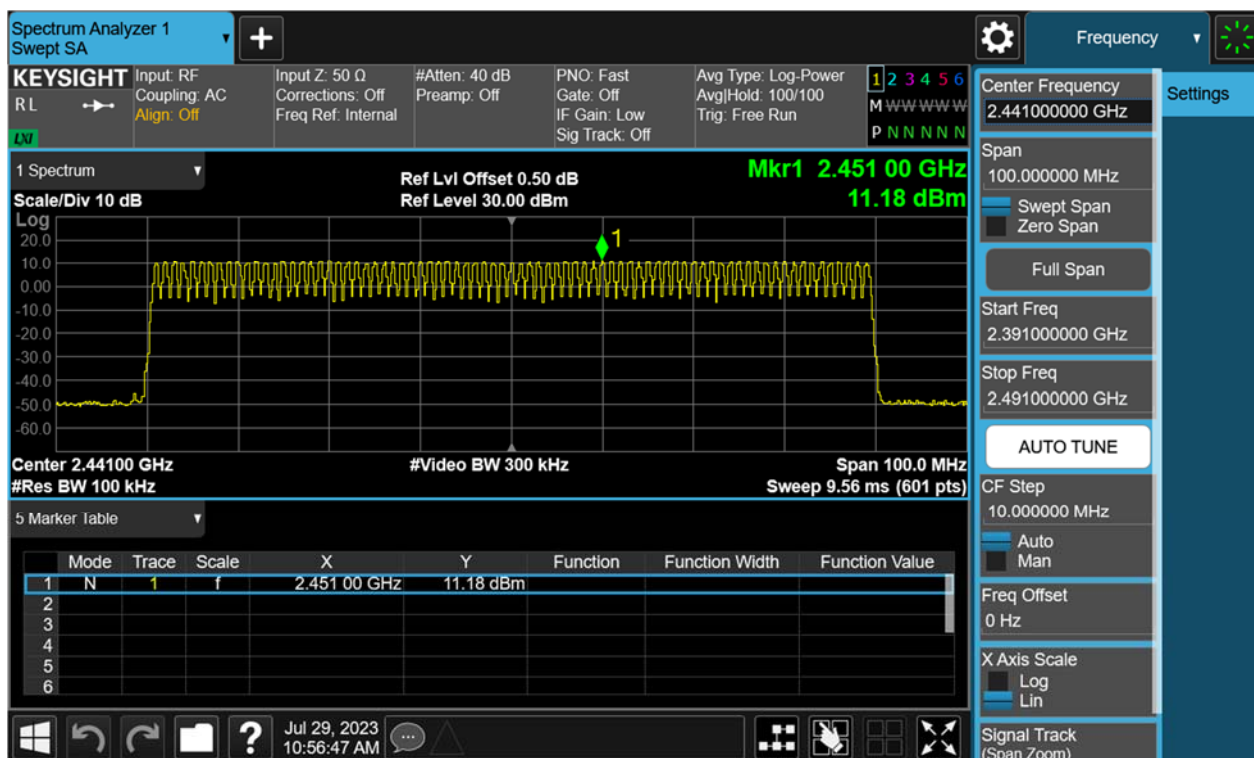
Date:

2023-09-15

Page 40 of 70



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



TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 41 of 70

Band Edge(Low)



Band Edge(High)



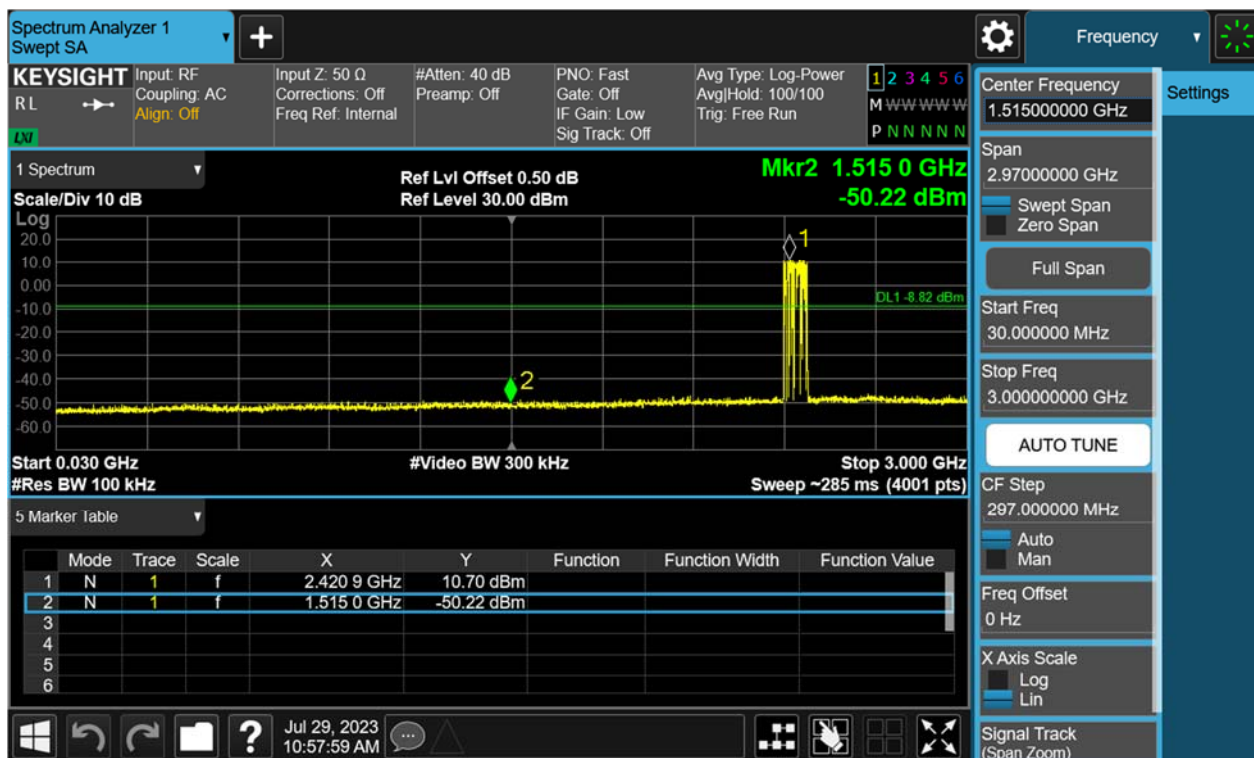
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 42 of 70

Conducted spurious emissions 30MHz-25GHz



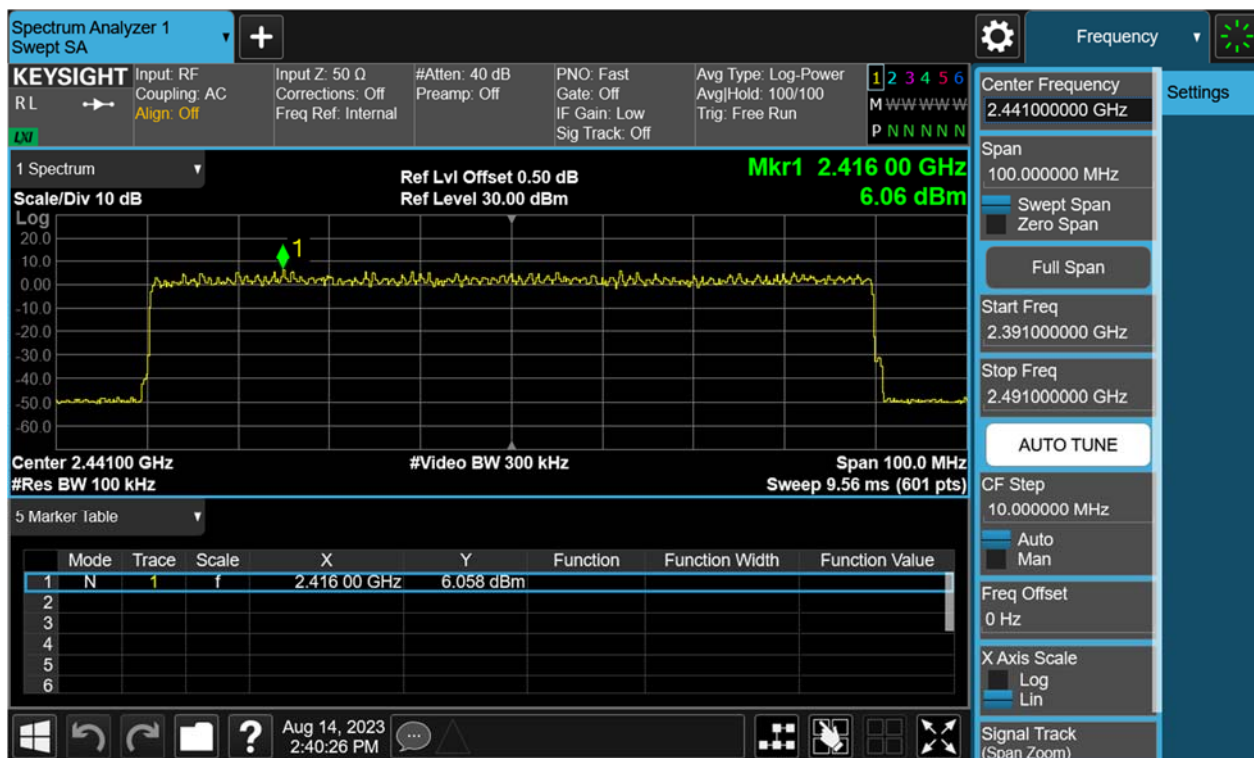
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 43 of 70

Figure 29: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, $\pi/4$ -DQPSK Carrier Level



Band Edge(Low)



TEST REPORT

Report No.: SHE23060106-01CE

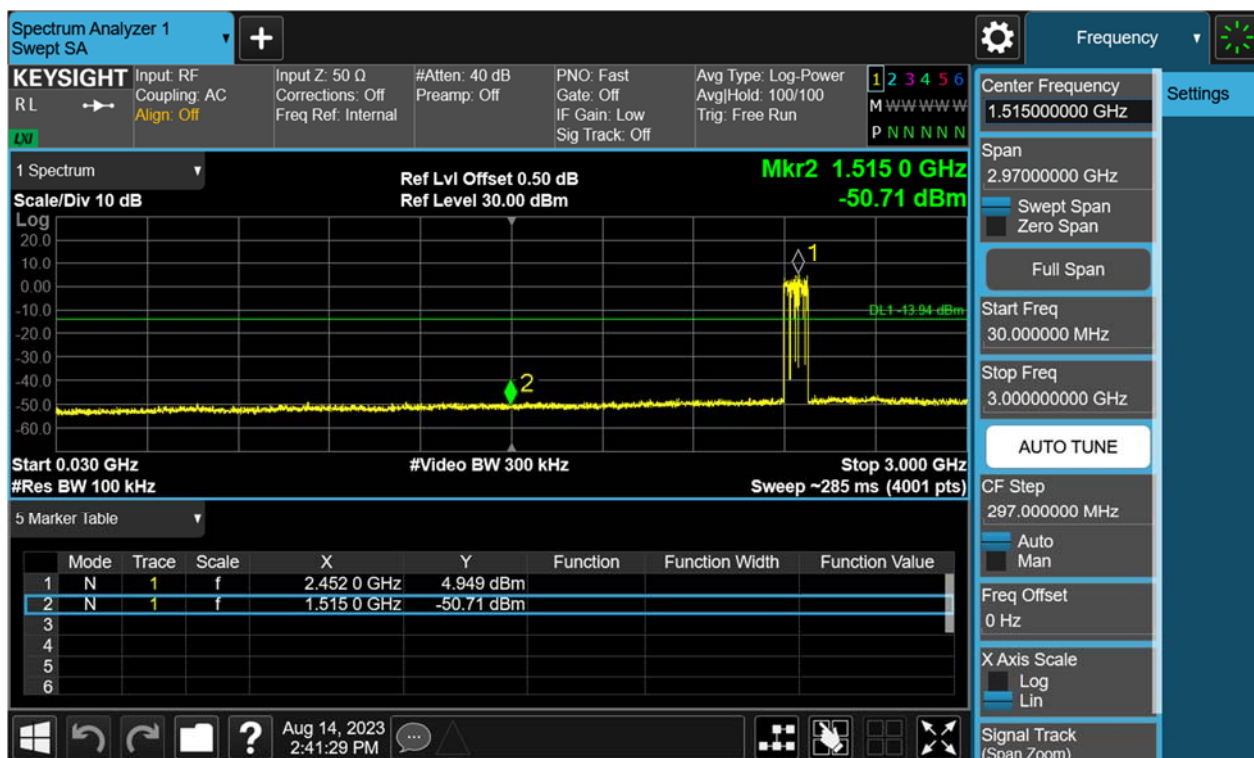
Date: 2023-09-15

Page 44 of 70

Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

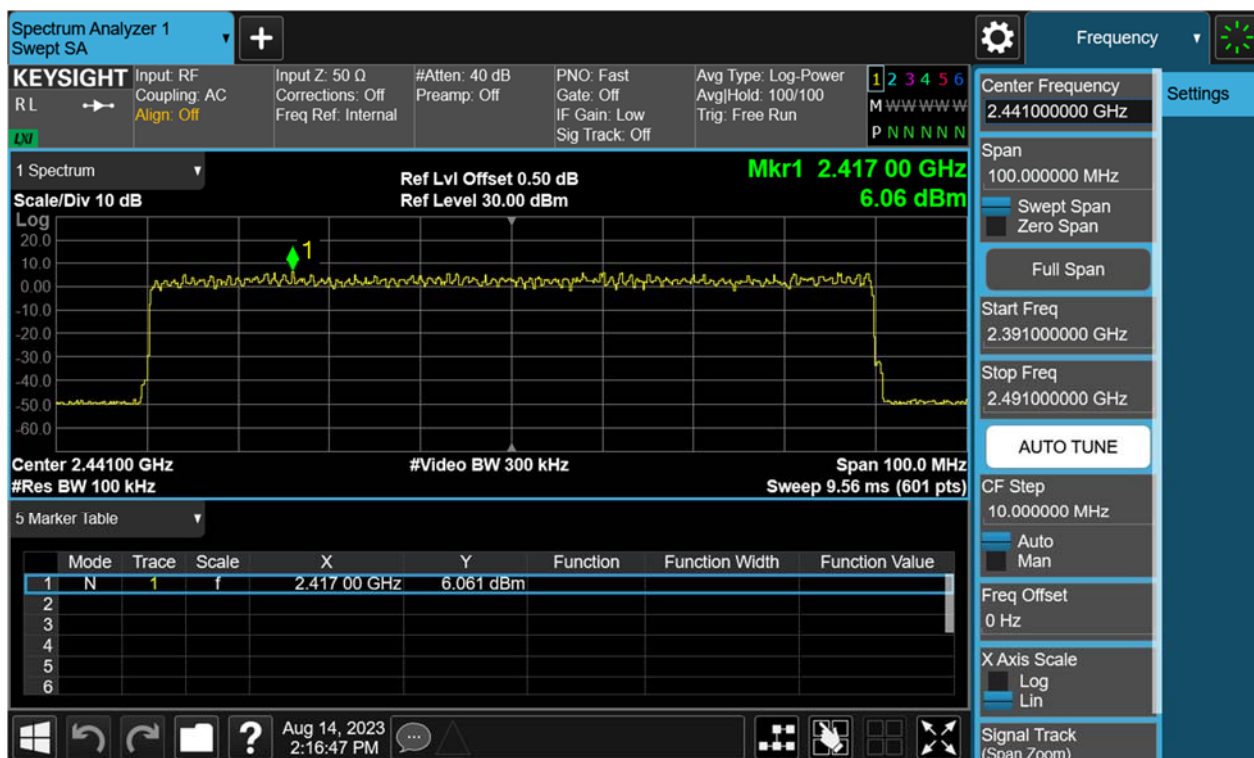
Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 45 of 70



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



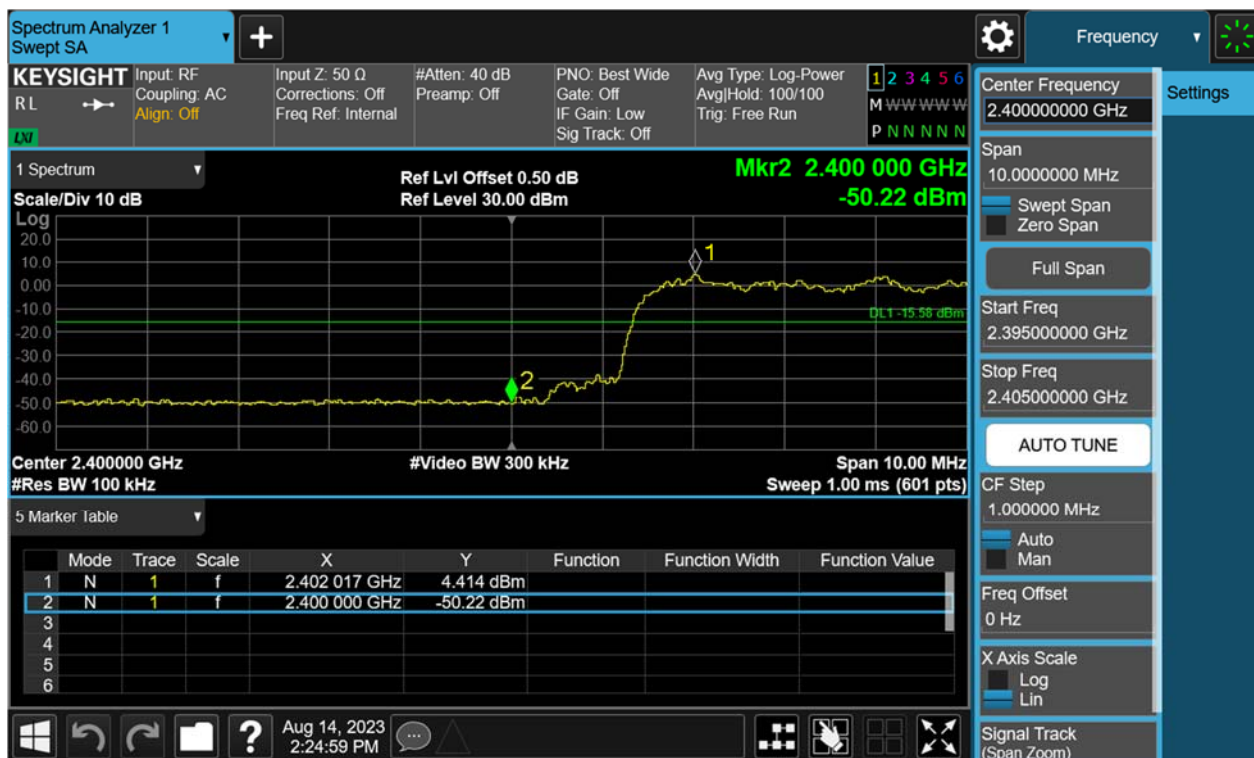
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 46 of 70

Band Edge(Low)



Band Edge(High)



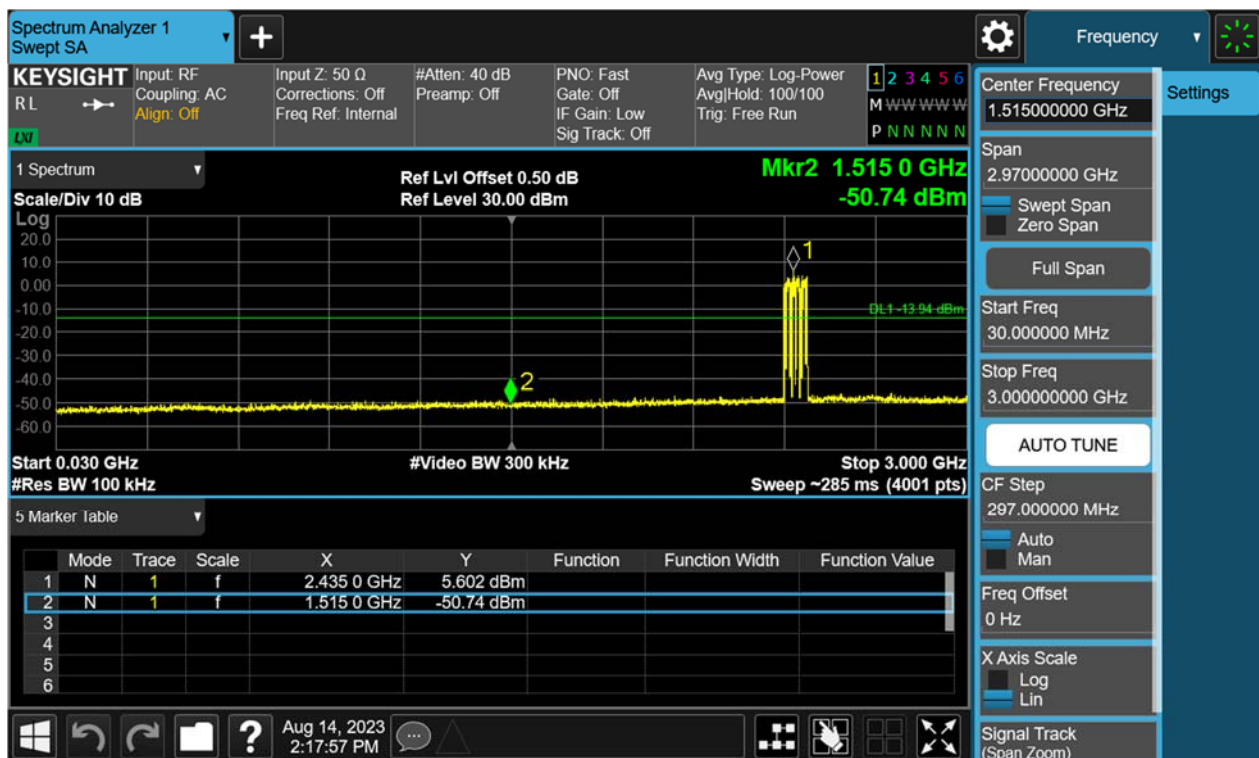
TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 47 of 70

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE23060106-01CE

Date: 2023-09-15

Page 48 of 70

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 : 22.1°C

Relative humidity : 52%

Notes

Test plots please refer to the annex document "SHE23060106-01CE DATA BDED-R-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.: SHE23060106-01CE

Date: 2023-09-15

Page 49 of 70

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/Middle/High

Operation Mode : A.1

Ambient temperature : 23.1°C

Relative humidity : 52%

Notes

1. Test plots please refer to the annex document "SHE23060106-01CE DATA BDED-R-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.: SHE23060106-01CE

Date: 2023-09-15

Page 50 of 70

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 : 24.9°C

Relative humidity : 51%

Table 3: Hopping Frequency Separation

Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	2441	1.037	0.9531
$\pi/4$ -DQPSK	2441	1.015	0.8580
8-DPSK	2441	0.967	0.8633

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