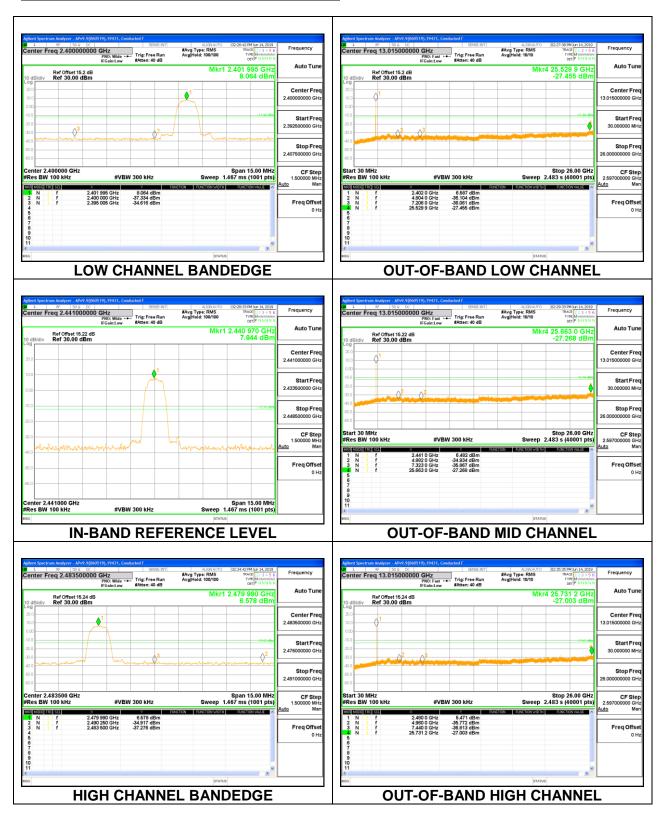
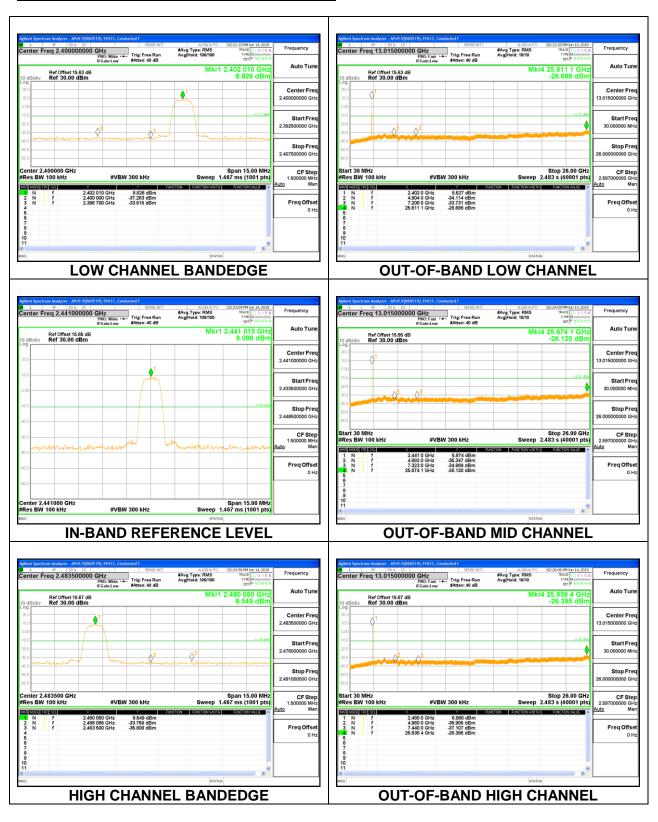
8.8.4 LOW POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 4 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

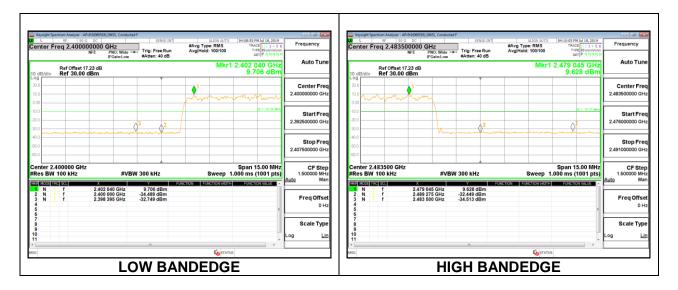




DATE: 8/23/2019

IC: 579C-E3306A

Antenna 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



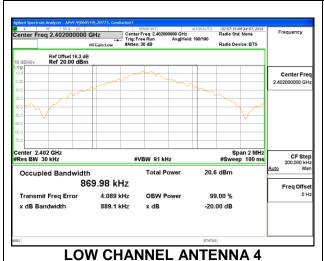
REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

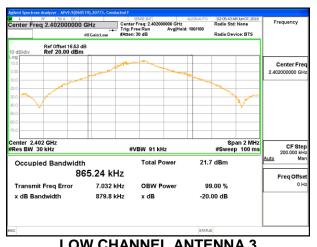
8.9 BEAMFORMING, 99% BANDWIDTH

8.9.1 HIGH POWER BASIC DATA RATE GFSK MODULATION

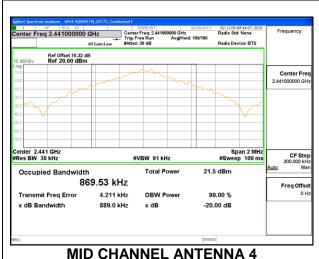
Note: Test procedure on beamforming mode is same as BT basic and EDR mode

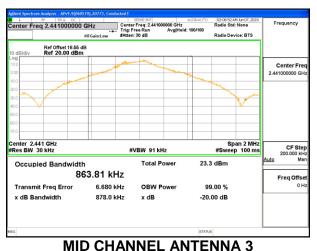
Channel	Frequency	99% Bandwidth	99% Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	0.8700	0.8652
Mid	2441	0.8695	0.8638
High	2480	0.8688	0.8628

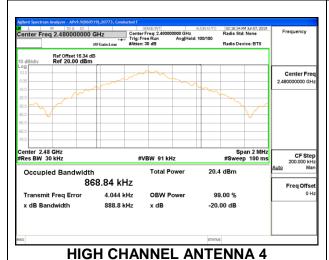


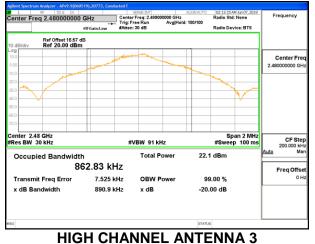












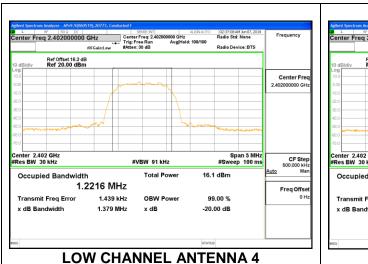
Page 90 of 285

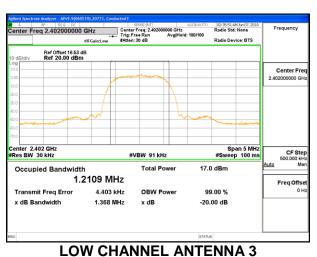
REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

8.9.2 HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

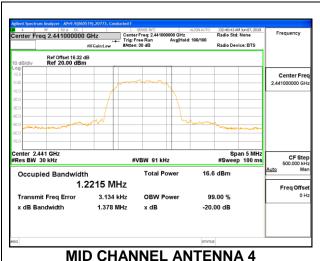
Channel	Frequency	99% Bandwidth	99% Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	1.2216	1.2109
Mid	2441	1.2215	1.2153
High	2480	1.2213	1.2114

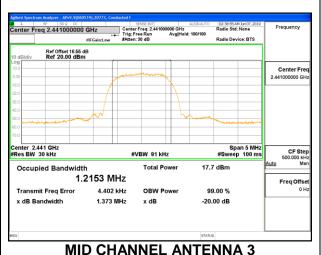
REPORT NO: 12901678-E3V2 FCC ID: BCG-E3306A

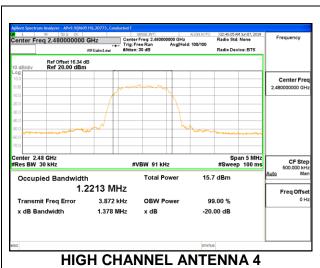


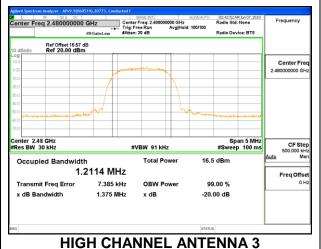


DATE: 8/23/2019 IC: 579C-E3306A







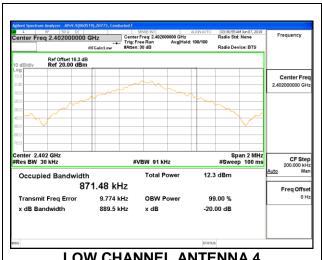


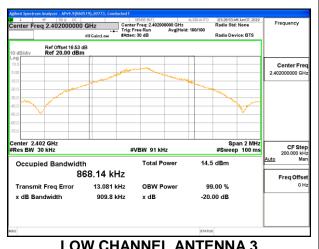
Page 92 of 285

REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

8.9.3 LOW POWER BASIC DATA RATE GFSK MODULATION

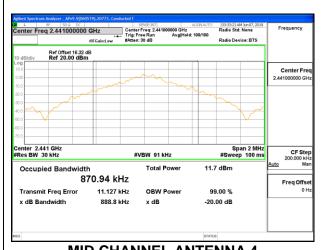
Channel	Frequency	99% Bandwidth	99% Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	0.8715	0.8681
Mid	2441	0.8709	0.8686
High	2480	0.8701	0.8691

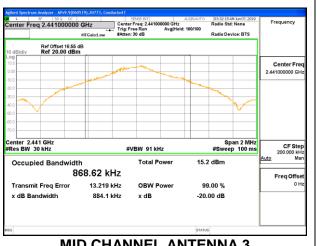




LOW CHANNEL ANTENNA 4

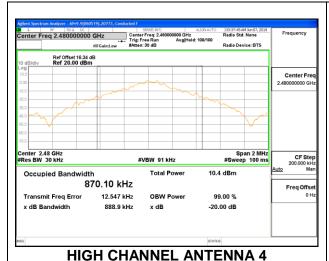


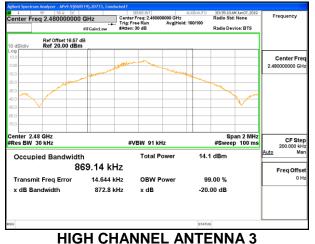




MID CHANNEL ANTENNA 4

MID CHANNEL ANTENNA 3



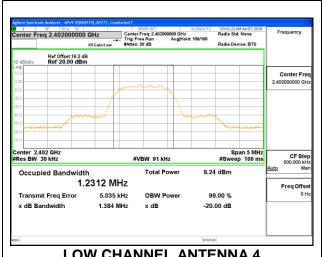


Page 94 of 285

REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

8.9.4 LOW POWER ENHANCED DATA RATE 8PSK MODULATION

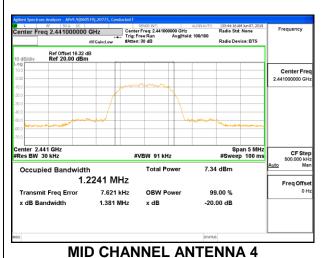
Channel	Frequency	99% Bandwidth	99% Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	1.2312	1.2190
Mid	2441	1.2241	1.2215
High	2480	1.2241	1.2254

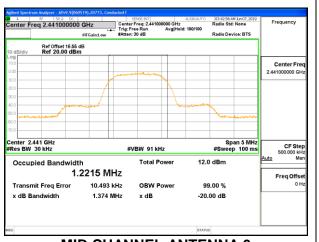




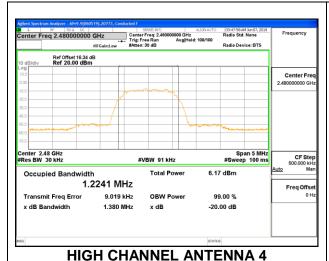
LOW CHANNEL ANTENNA 4

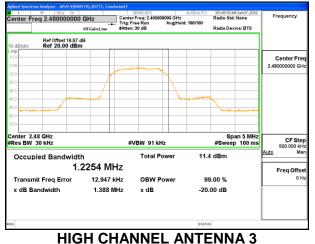






MID CHANNEL ANTENNA 3





Page 96 of 285

REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

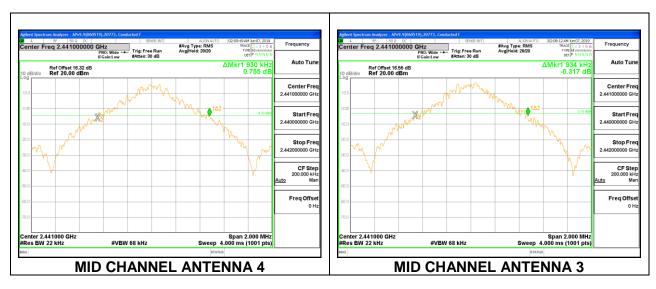
8.10 BEAMFORMING, 20 dB BANDWIDTH

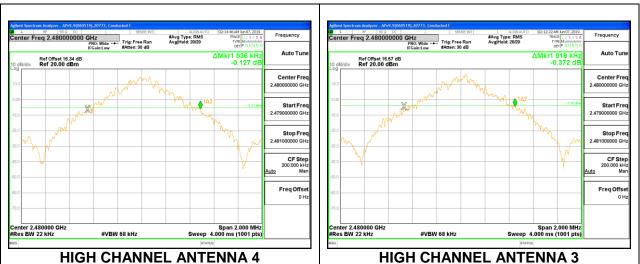
8.10.1 HIGH POWER BASIC DATA RATE GFSK MODULATION

Note: Test procedure on beamforming mode is same as BT basic and EDR mode

Channel	Frequency	20dB Bandwidth	20dB Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	0.938	0.954
Mid	2441	0.930	0.934
High	2480	0.936	0.918

REPORT NO: 12901678-E3V2 FCC ID: BCG-E3306A



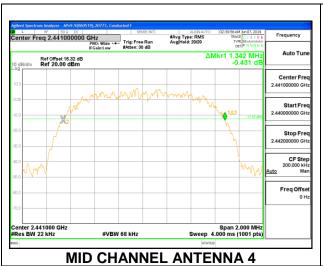


DATE: 8/23/2019 IC: 579C-E3306A REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

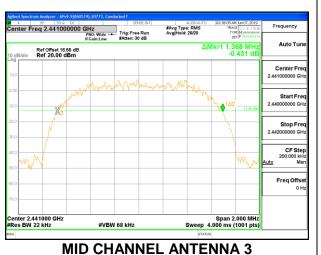
HIGH POWER ENHANCED DATA RATE 8PSK 8.10.2 **MODULATION**

Channel	Frequency	20dB Bandwidth	20dB Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	1.356	1.374
Mid	2441	1.342	1.368
High	2480	1.350	1.372

REPORT NO: 12901678-E3V2 FCC ID: BCG-E3306A

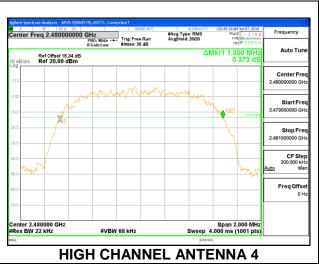


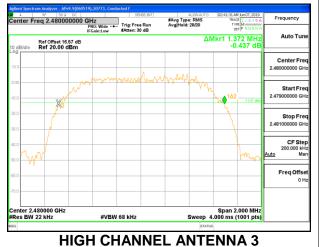
LOW CHANNEL ANTENNA 4



LOW CHANNEL ANTENNA 3

DATE: 8/23/2019 IC: 579C-E3306A





Page 100 of 285

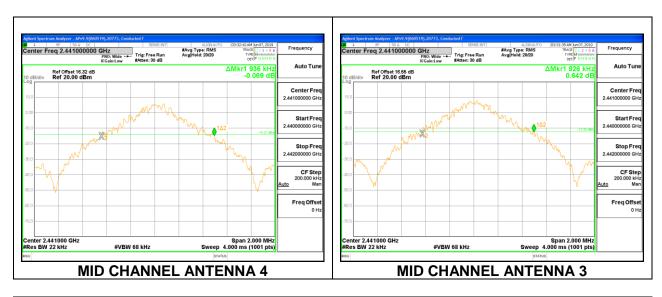
REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

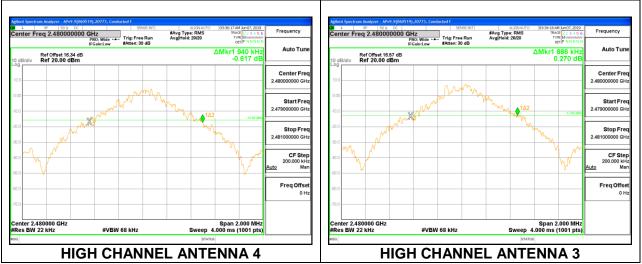
LOW POWER BASIC DATA RATE GFSK MODULATION 8.10.3

Channel	Frequency	20dB Bandwidth	20dB Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	0.908	1.012
Mid	2441	0.936	0.926
High	2480	0.940	0.886

REPORT NO: 12901678-E3V2 FCC ID: BCG-E3306A

| Center Freq 2.402000000 GHz | Start Freq | 2.40200000 GHz | Start Freq | 2.402000000 GHz |



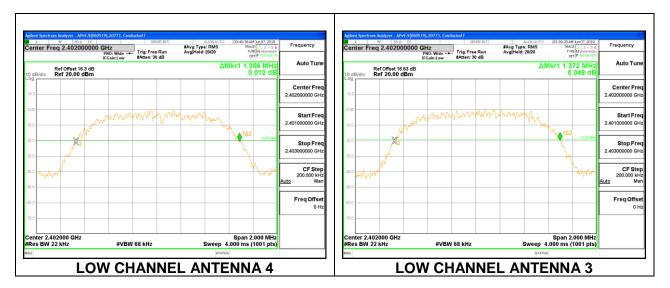


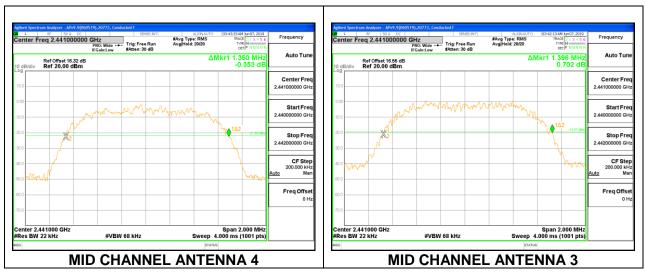
DATE: 8/23/2019 IC: 579C-E3306A REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

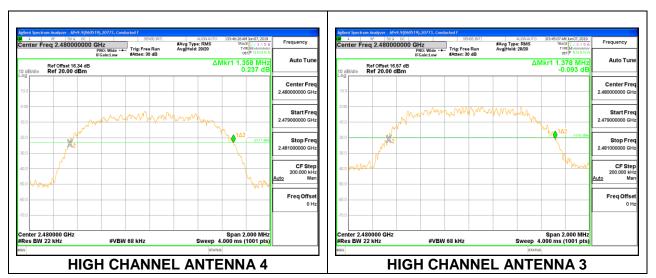
LOW POWER ENHANCED DATA RATE 8PSK 8.10.4 **MODULATION**

Channel	Frequency	20dB Bandwidth	20dB Bandwidth
		Antenna 4	Antenna 3
	(MHz)	(MHz)	(MHz)
Low	2402	1.356	1.372
Mid	2441	1.350	1.396
High	2480	1.358	1.378

REPORT NO: 12901678-E3V2 FCC ID: BCG-E3306A







DATE: 8/23/2019 IC: 579C-E3306A REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

8.11 BEAMFORMING, HOPPING FREQUENCY SEPARATION

LIMITS

FCC §15.247 (a) (1)

RSS-247 (5.1) (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hoping channel, whichever is greater.

Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

TEST PROCEDURE

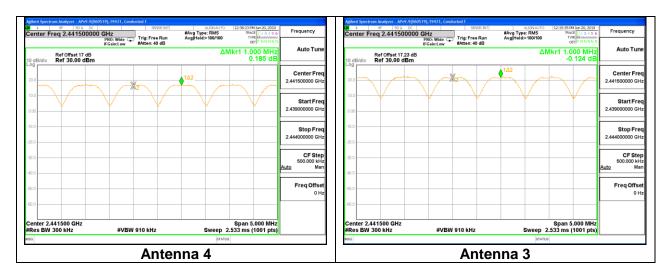
The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to VBW >= RBW. The sweep time is coupled.

Note: Test procedure on beamforming mode is same as BT basic and EDR mode

RESULTS

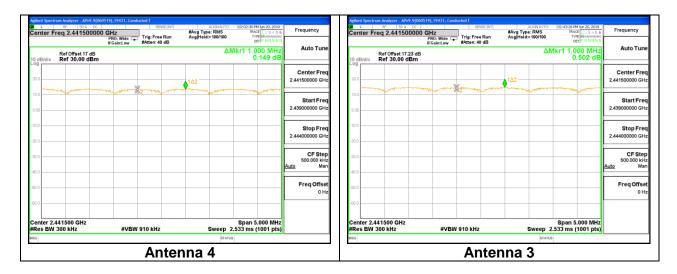
8.11.1 HIGH POWER BASIC DATA RATE GFSK MODULATION

HOPPING FREQUENCY SEPARATION



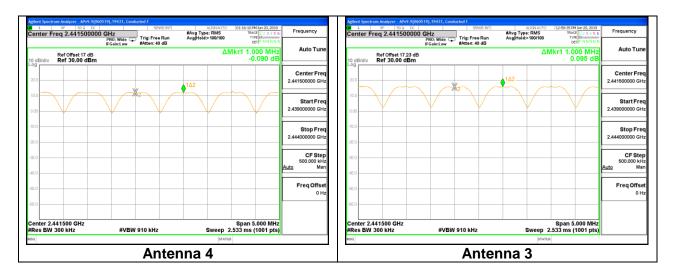
8.11.2 HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

HOPPING FREQUENCY SEPARATION



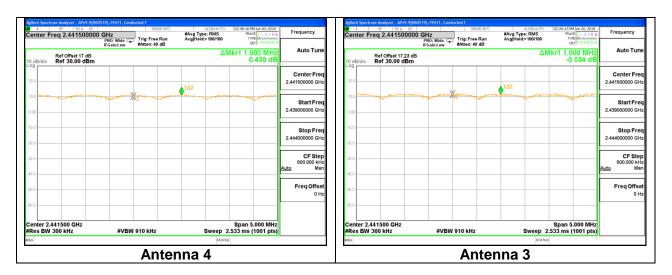
8.11.3 LOW POWER BASIC DATA RATE GFSK MODULATION

HOPPING FREQUENCY SEPARATION



8.11.4 LOW POWER ENHANCED DATA RATE 8PSK MODULATION

HOPPING FREQUENCY SEPARATION



REPORT NO: 12901678-E3V2 DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

8.12 BEAMFORMING, NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (iii)

RSS-247 (5.1) (d)

Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

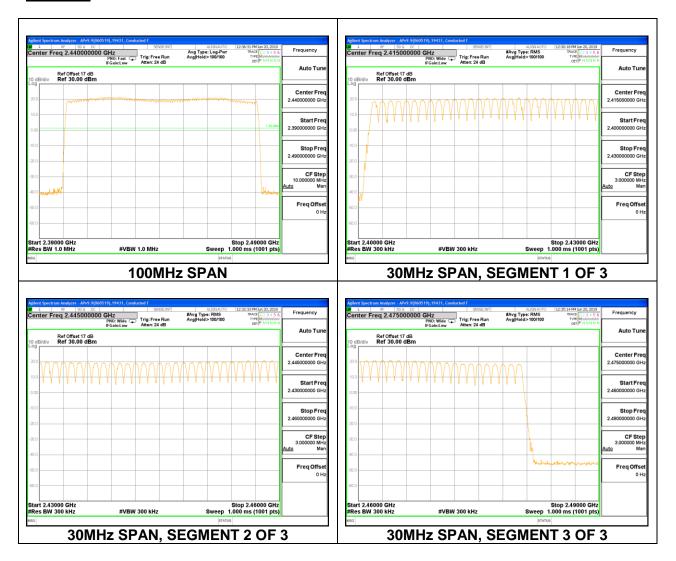
Note: Test procedure on beamforming mode is same as BT basic and EDR mode

RESULTS

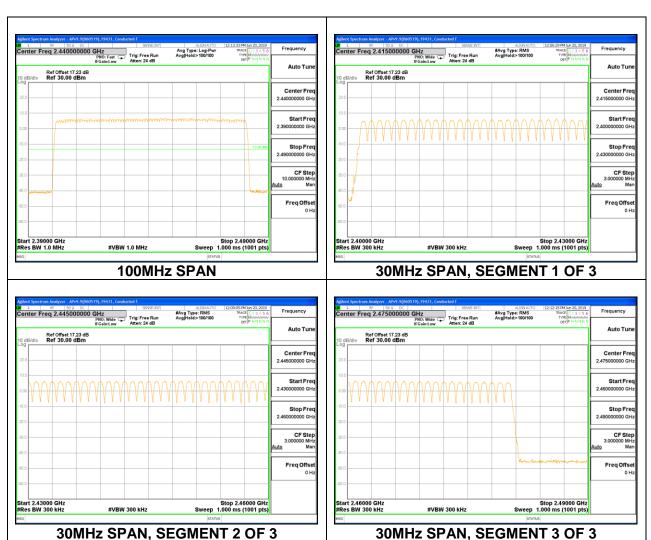
Normal Mode: All Channels Observed

8.12.1 HIGH POWER BASIC DATA RATE GFSK MODULATION

Antenna 4

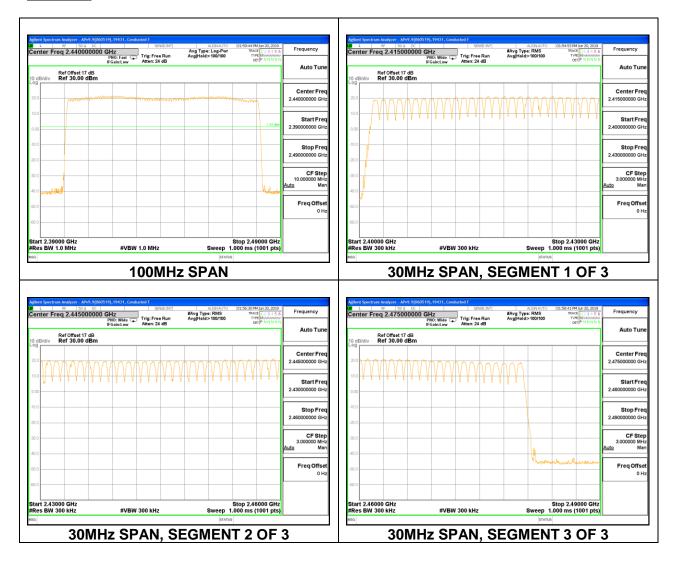


DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A



8.12.2 HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

Antenna 4



DATE: 8/23/2019 FCC ID: BCG-E3306A IC: 579C-E3306A

