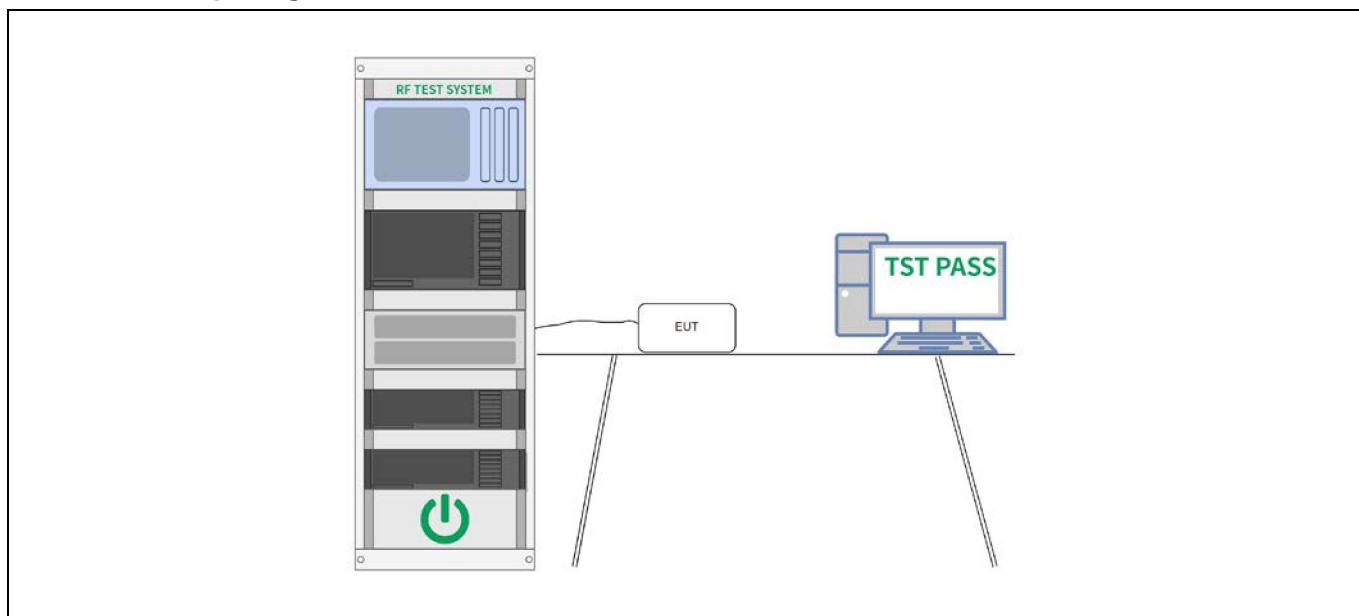


	7.8.7.2 Band-edges Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels. For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge. For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.
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6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Please Refer to Appendix for Details.

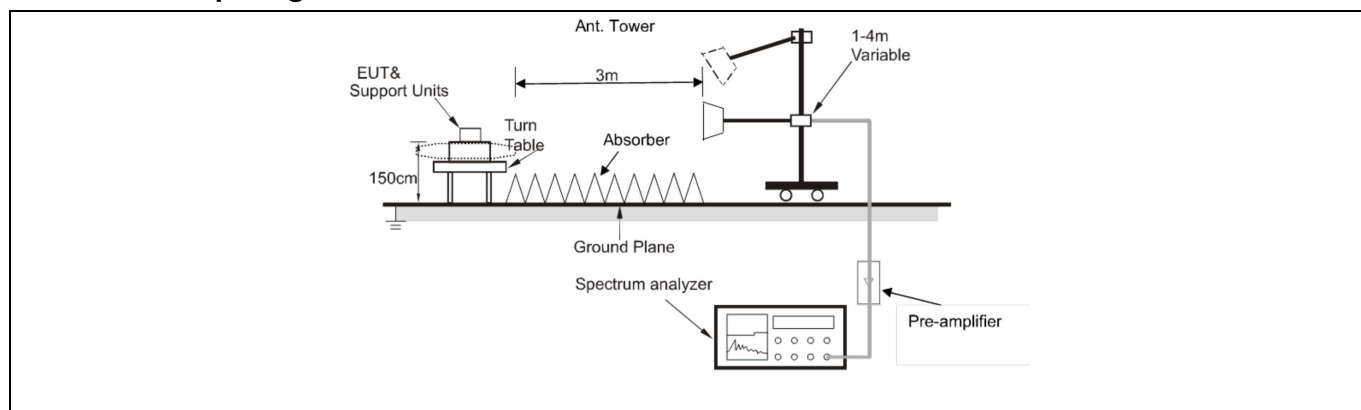
6.8 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		

6.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	18.9 °C	Humidity:	48.3 %	Atmospheric Pressure:	99 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.					

6.8.2 Test Setup Diagram:



6.8.3 Test Data:

Mod2 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.98	-4.83	44.15	74.00	-29.85	peak
2		2310.000	38.92	-4.83	34.09	54.00	-19.91	AVG
3		2390.000	51.45	-4.31	47.14	74.00	-26.86	peak
4	*	2390.000	41.15	-4.31	36.84	54.00	-17.16	AVG

Mode2 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	50.98	-4.83	46.15	74.00	-27.85	peak
2		2310.000	38.86	-4.83	34.03	54.00	-19.97	AVG
3		2390.000	50.28	-4.31	45.97	74.00	-28.03	peak
4	*	2390.000	39.44	-4.31	35.13	54.00	-18.87	AVG

Mode2 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	54.72	-4.21	50.51	74.00	-23.49	peak
2		2483.500	41.29	-4.21	37.08	54.00	-16.92	AVG
3		2500.000	57.05	-4.10	52.95	74.00	-21.05	peak
4	*	2500.000	46.65	-4.10	42.55	54.00	-11.45	AVG

Mode2 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	50.59	-4.21	46.38	74.00	-27.62	peak
2		2483.500	39.45	-4.21	35.24	54.00	-18.76	AVG
3		2500.000	49.95	-4.10	45.85	74.00	-28.15	peak
4	*	2500.000	39.92	-4.10	35.82	54.00	-18.18	AVG

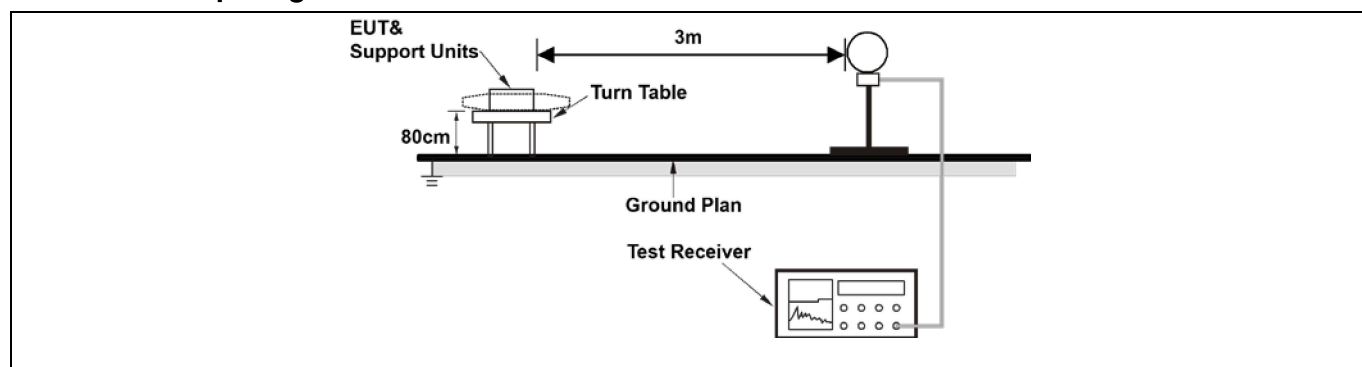
6.9 Radiated emissions (below 1GHz)

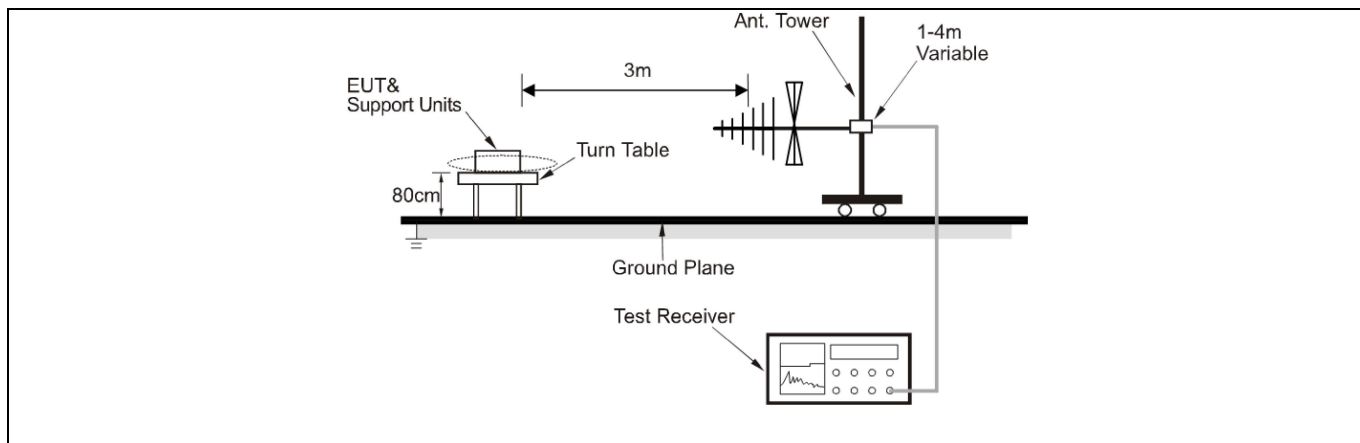
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.9.1 E.U.T. Operation:

Operating Environment:					
Temperature:	18.9 °C	Humidity:	48.3 %	Atmospheric Pressure:	99 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.					

6.9.2 Test Setup Diagram:





6.9.3 Test Data:

Mode2 / Polarization: Horizontal / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	64.8863	38.72	-18.14	20.58	40.00	-19.42	QP	
2		166.6511	37.83	-20.37	17.46	43.50	-26.04	QP	
3		263.8190	37.43	-16.33	21.10	46.00	-24.90	QP	
4		465.5994	30.90	-14.24	16.66	46.00	-29.34	QP	
5		603.5389	29.11	-10.38	18.73	46.00	-27.27	QP	
6		833.3170	27.45	-6.34	21.11	46.00	-24.89	QP	

Mode2 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	63.5356	43.40	-21.13	22.27	40.00	-17.73	QP	
2		88.0328	19.77	-9.85	9.92	43.50	-33.58	QP	
3		176.2685	27.67	-18.13	9.54	43.50	-33.96	QP	
4		263.8190	31.32	-16.97	14.35	46.00	-31.65	QP	
5		407.5144	29.67	-13.90	15.77	46.00	-30.23	QP	
6		605.6592	27.32	-10.47	16.85	46.00	-29.15	QP	

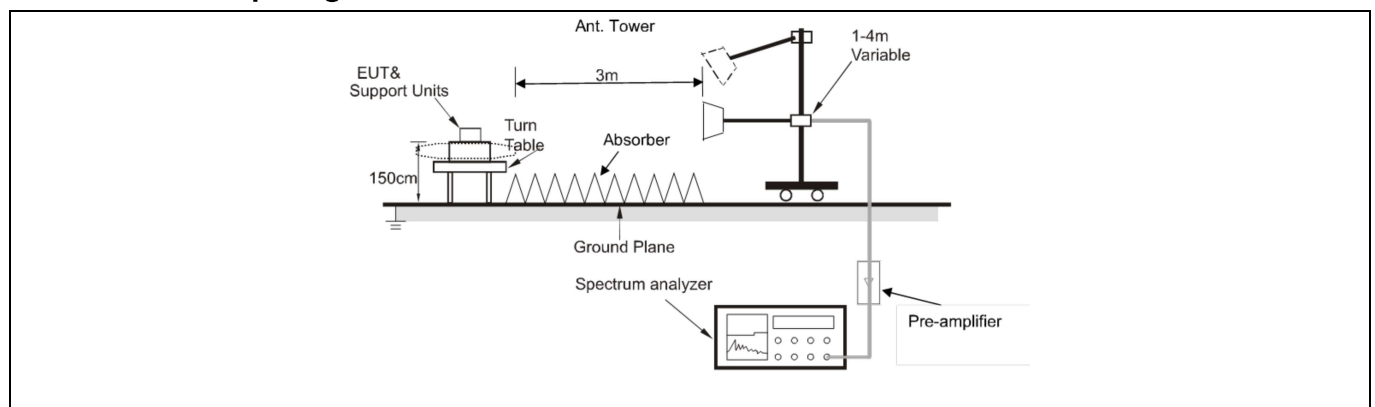
6.10 Radiated emissions (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.10.1 E.U.T. Operation:

Operating Environment:					
Temperature:	18.9 °C	Humidity:	48.3 %	Atmospheric Pressure:	99 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.					

6.10.2 Test Setup Diagram:



6.10.3 Test Data:

Mode2 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	43.57	0.53	44.10	74.00	-29.90	peak
2		4804.000	39.64	0.53	40.17	54.00	-13.83	AVG
3		7206.000	44.16	7.90	52.06	74.00	-21.94	peak
4		7206.000	39.42	7.90	47.32	54.00	-6.68	AVG
5		9608.000	47.56	8.85	56.41	74.00	-17.59	peak
6	*	9608.000	40.41	8.85	49.26	54.00	-4.74	AVG

Mode2 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	43.06	0.53	43.59	74.00	-30.41	peak
2		4804.000	38.62	0.53	39.15	54.00	-14.85	AVG
3		7206.000	43.34	7.90	51.24	74.00	-22.76	peak
4		7206.000	37.22	7.90	45.12	54.00	-8.88	AVG
5		9608.000	43.57	8.85	52.42	74.00	-21.58	peak
6	*	9608.000	37.42	8.85	46.27	54.00	-7.73	AVG

Mode2 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	42.60	0.57	43.17	74.00	-30.83	peak
2		4882.000	39.55	0.57	40.12	54.00	-13.88	AVG
3		7323.000	42.93	7.57	50.50	74.00	-23.50	peak
4		7323.000	37.69	7.57	45.26	54.00	-8.74	AVG
5		9764.000	47.60	9.33	56.93	74.00	-17.07	peak
6	*	9764.000	40.83	9.33	50.16	54.00	-3.84	AVG

Mode2 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	42.84	0.57	43.41	74.00	-30.59	peak
2		4882.000	37.58	0.57	38.15	54.00	-15.85	AVG
3		7323.000	42.61	7.57	50.18	74.00	-23.82	peak
4		7323.000	38.70	7.57	46.27	54.00	-7.73	AVG
5		9764.000	43.50	9.33	52.83	74.00	-21.17	peak
6	*	9764.000	37.83	9.33	47.16	54.00	-6.84	AVG

Mode2 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	43.91	0.66	44.57	74.00	-29.43	peak
2		4960.000	39.46	0.66	40.12	54.00	-13.88	AVG
3		7440.000	42.88	7.94	50.82	74.00	-23.18	peak
4		7440.000	37.29	7.94	45.23	54.00	-8.77	AVG
5		9920.000	48.64	9.69	58.33	74.00	-15.67	peak
6	*	9920.000	41.09	9.69	50.78	54.00	-3.22	AVG

Mode2 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	45.06	0.66	45.72	74.00	-28.28	peak
2		4960.000	39.49	0.66	40.15	54.00	-13.85	AVG
3		7440.000	43.58	7.94	51.52	74.00	-22.48	peak
4		7440.000	37.35	7.94	45.29	54.00	-8.71	AVG
5		9920.000	44.07	9.69	53.76	74.00	-20.24	peak
6	*	9920.000	37.50	9.69	47.19	54.00	-6.81	AVG

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

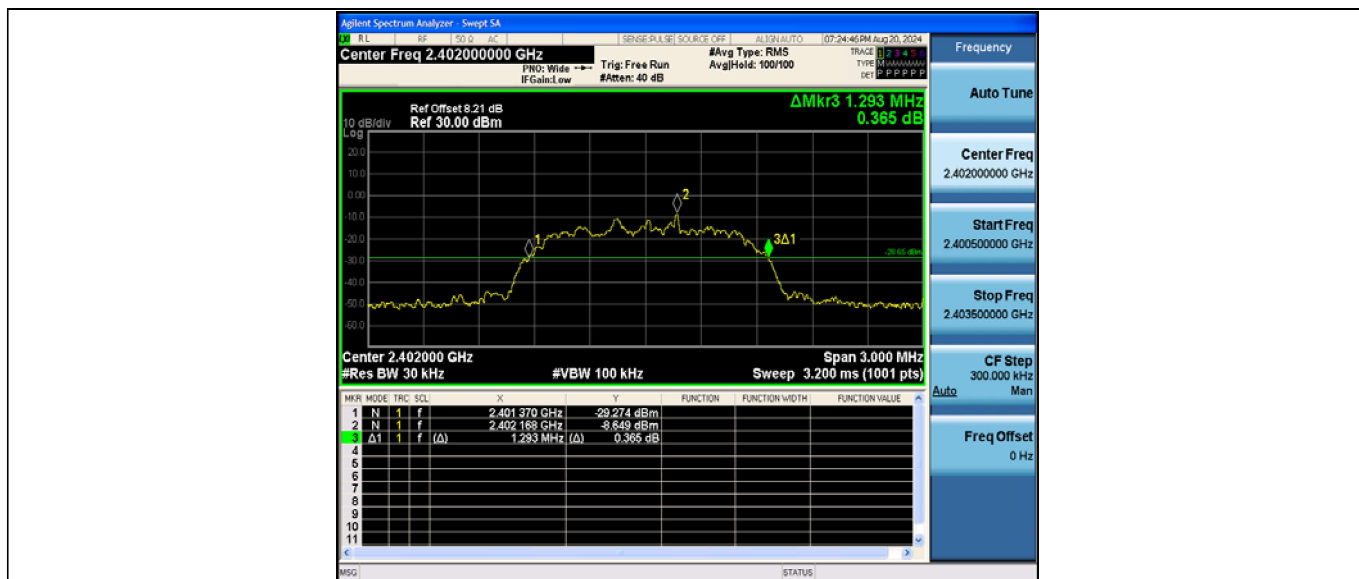
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	0.966
		2441	0.996
		2480	1.014
2DH5	Ant1	2402	1.293
		2441	1.314
		2480	1.320

Test Graphs





2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix B: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	-4.62	≤30	PASS
		2441	-4.50	≤30	PASS
		2480	-4.04	≤30	PASS
2DH5	Ant1	2402	-4.89	≤30	PASS
		2441	-4.66	≤30	PASS
		2480	-3.48	≤30	PASS