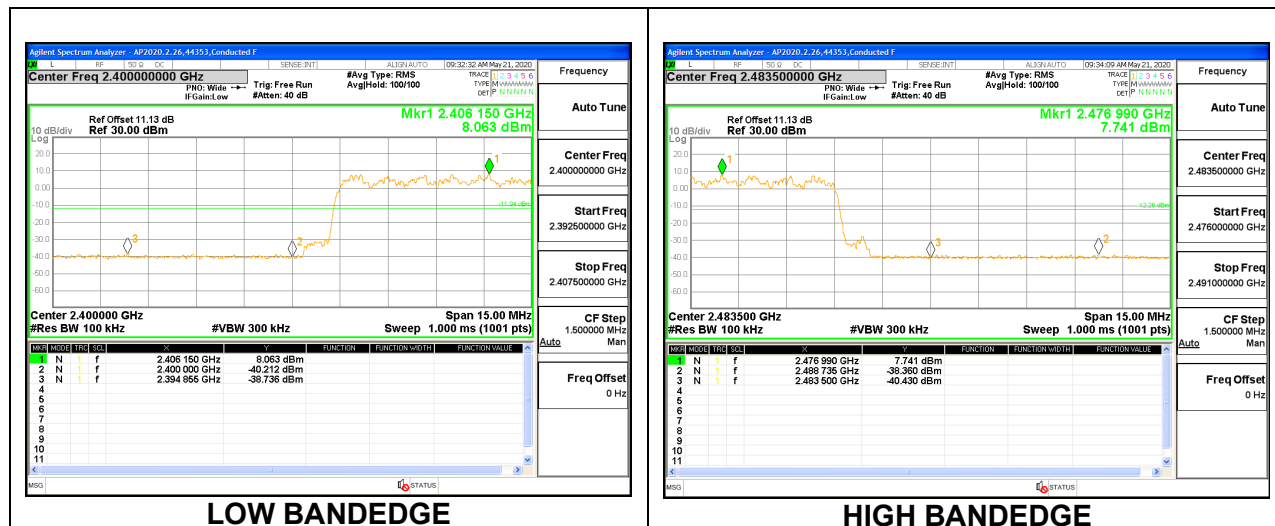


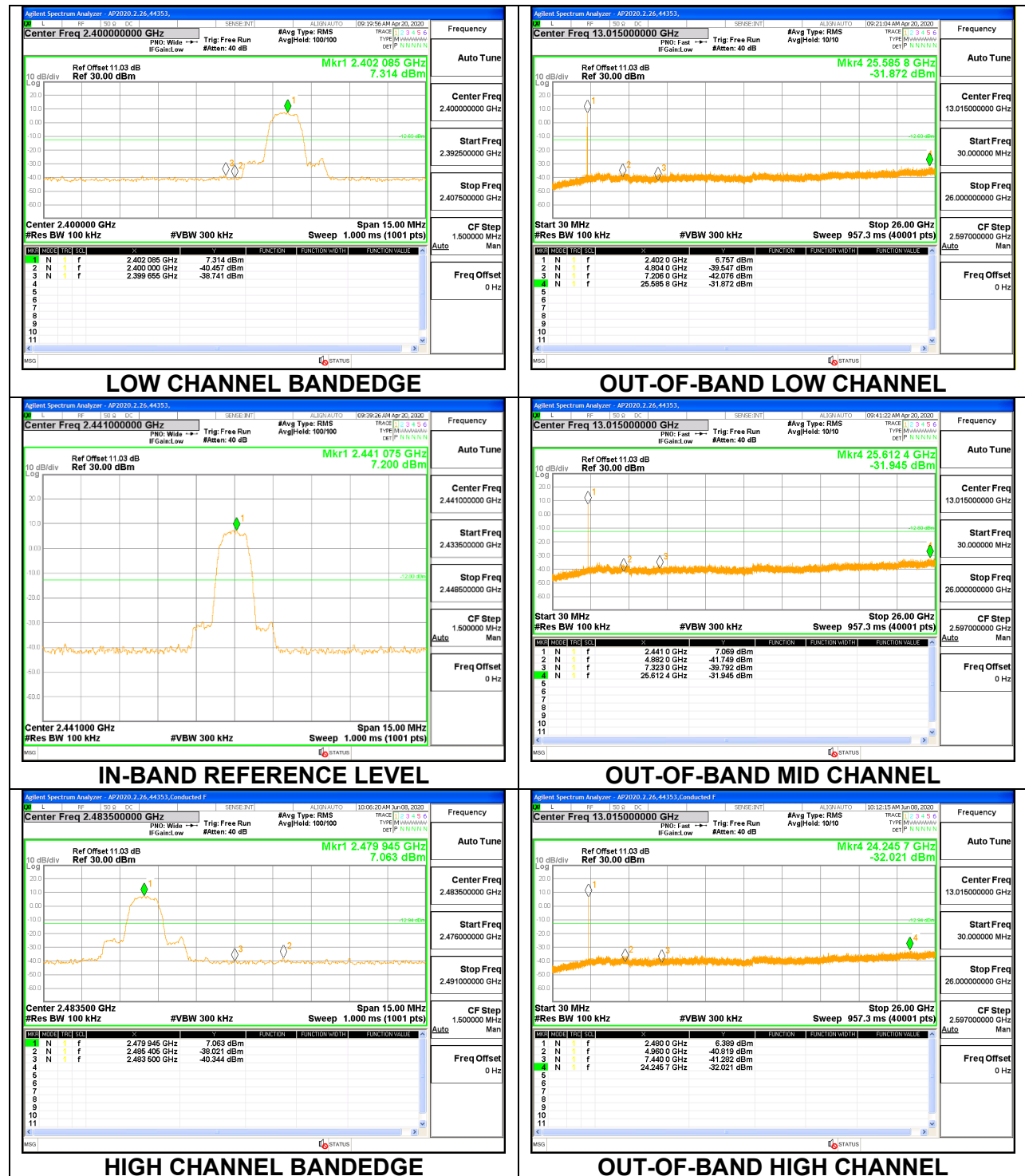
ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



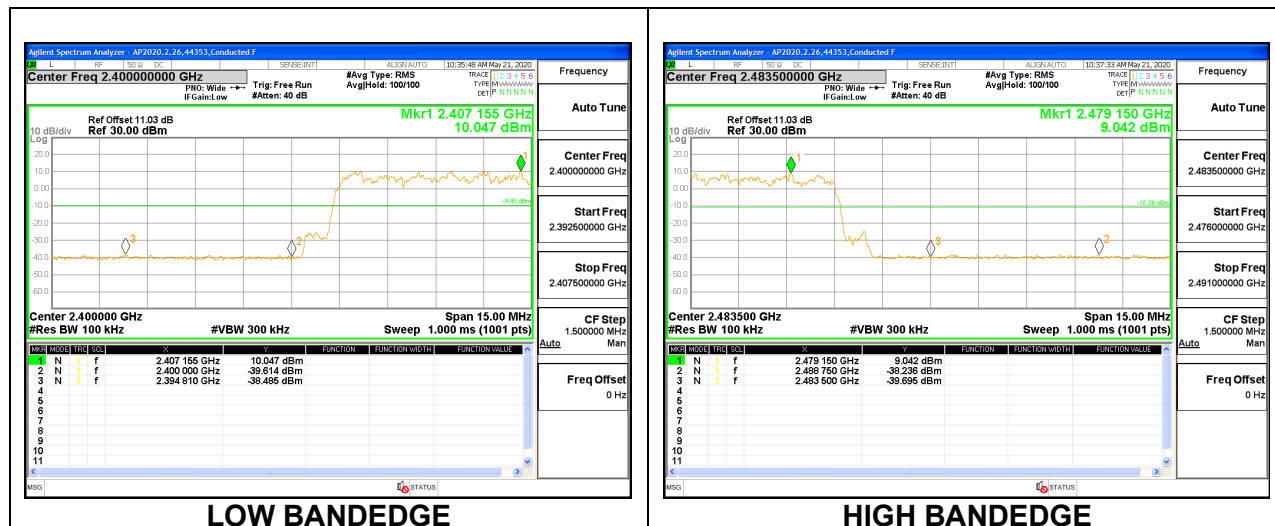
9.8.8. LOW POWER BASIC DATA RATE TXBF 8PSK MODULATION

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

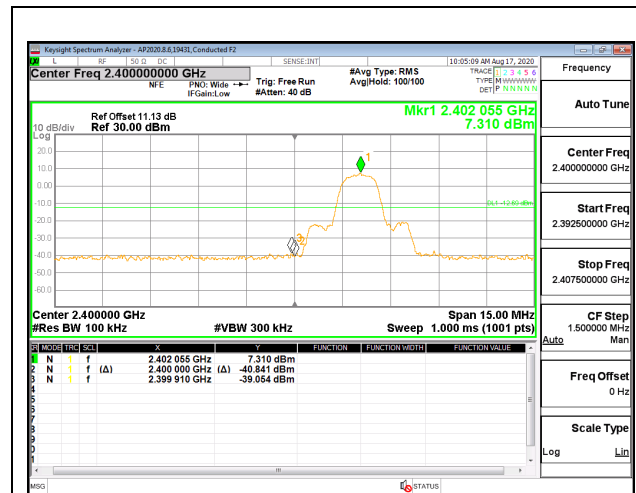
ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



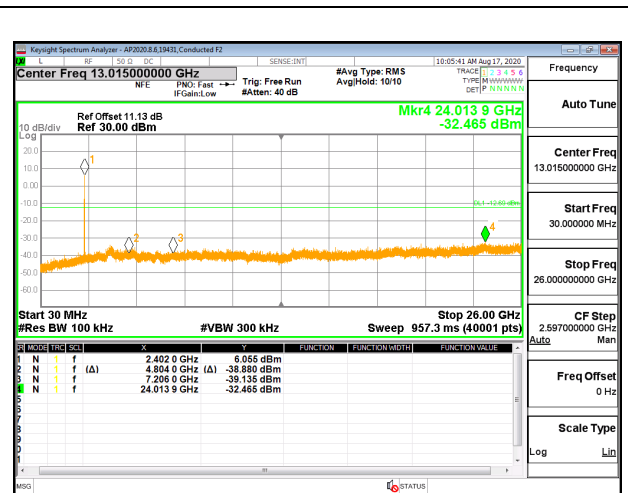
ANT 4 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



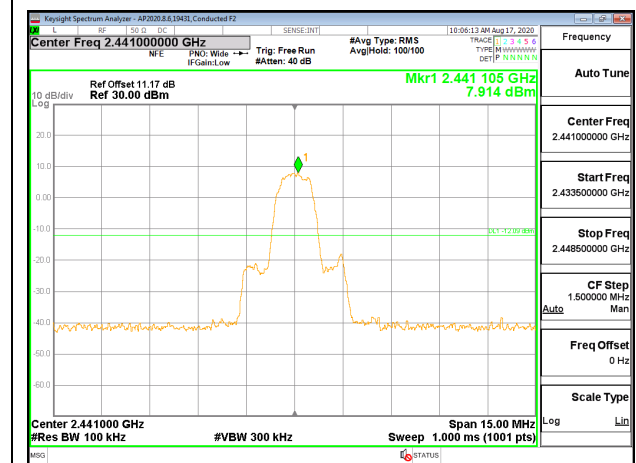
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



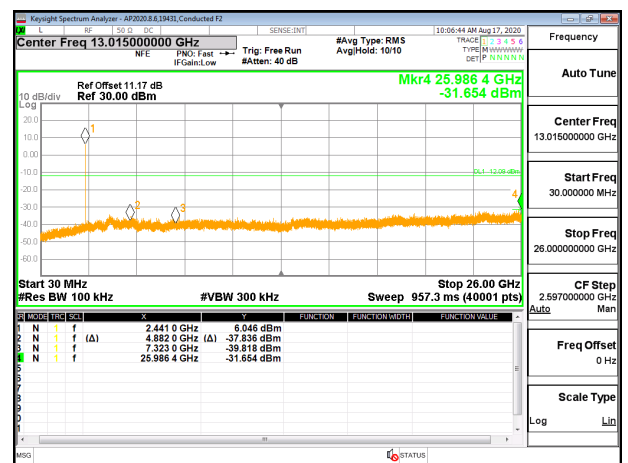
LOW CHANNEL BANDEDGE



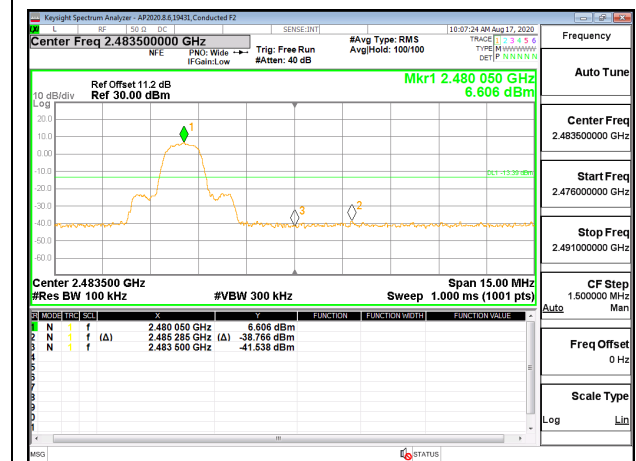
OUT-OF-BAND LOW CHANNEL



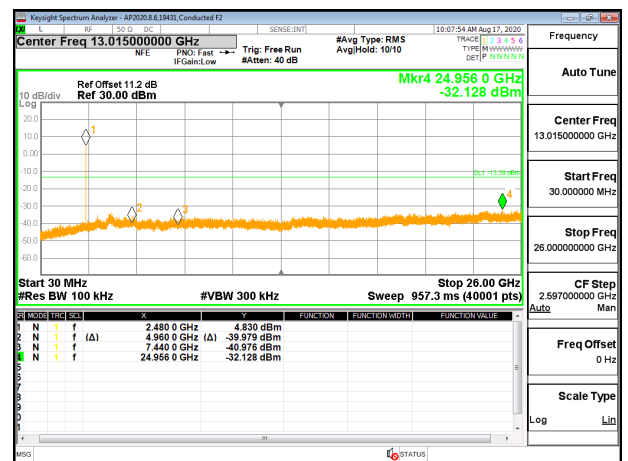
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

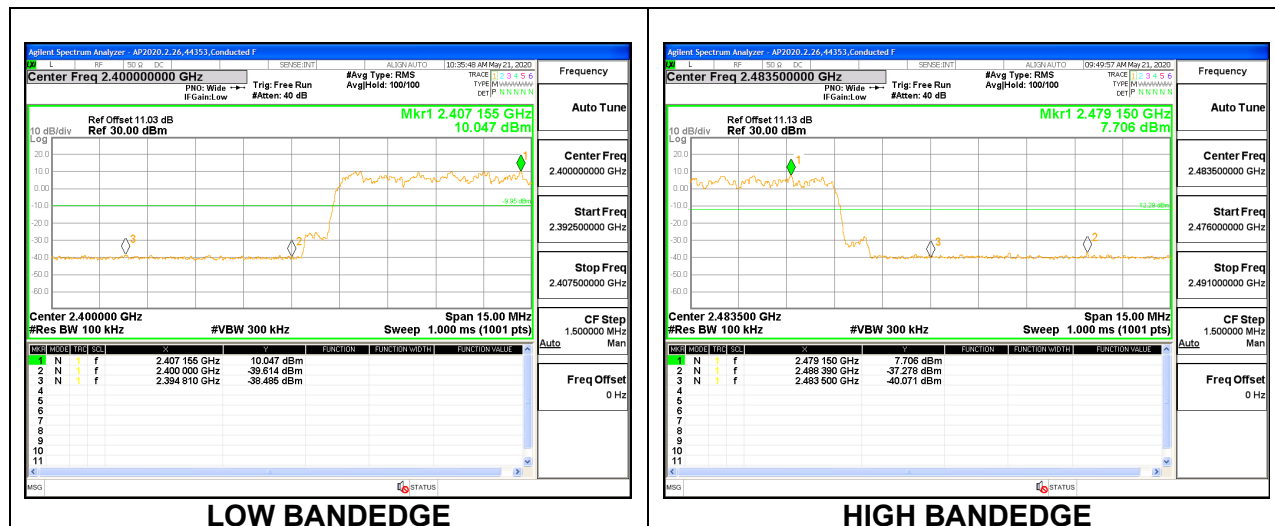


HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final scans above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

KDB 558074 D01 15.247 Meas Guidance v05r02

Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

Results

High Power Beamforming GFSK mode is set to maximum power per chain to cover both SISO and MIMO modes to complies with radiated spurious emissions limits in the restricted bands between 1GHz and 18GHz low/mid/high channel (except the band edge).

Spurious emissions for frequencies below 1GHz and above 18GHz were limited to the middle channel as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.

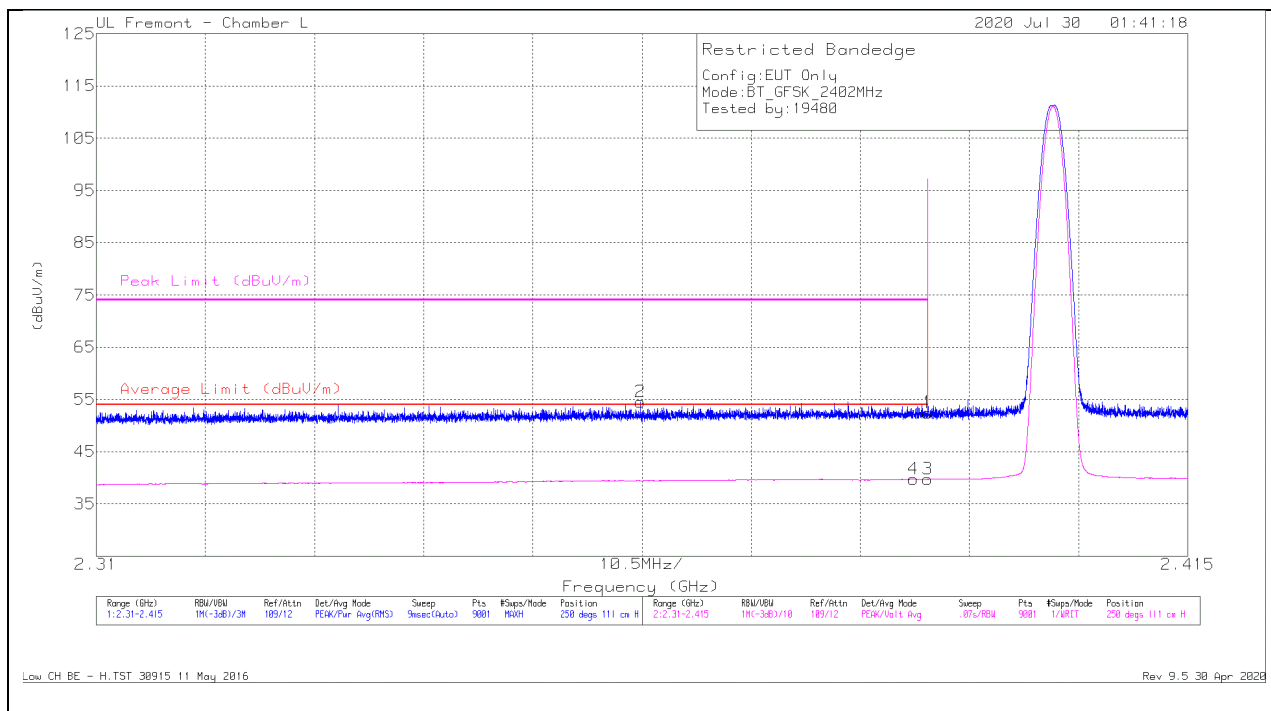
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



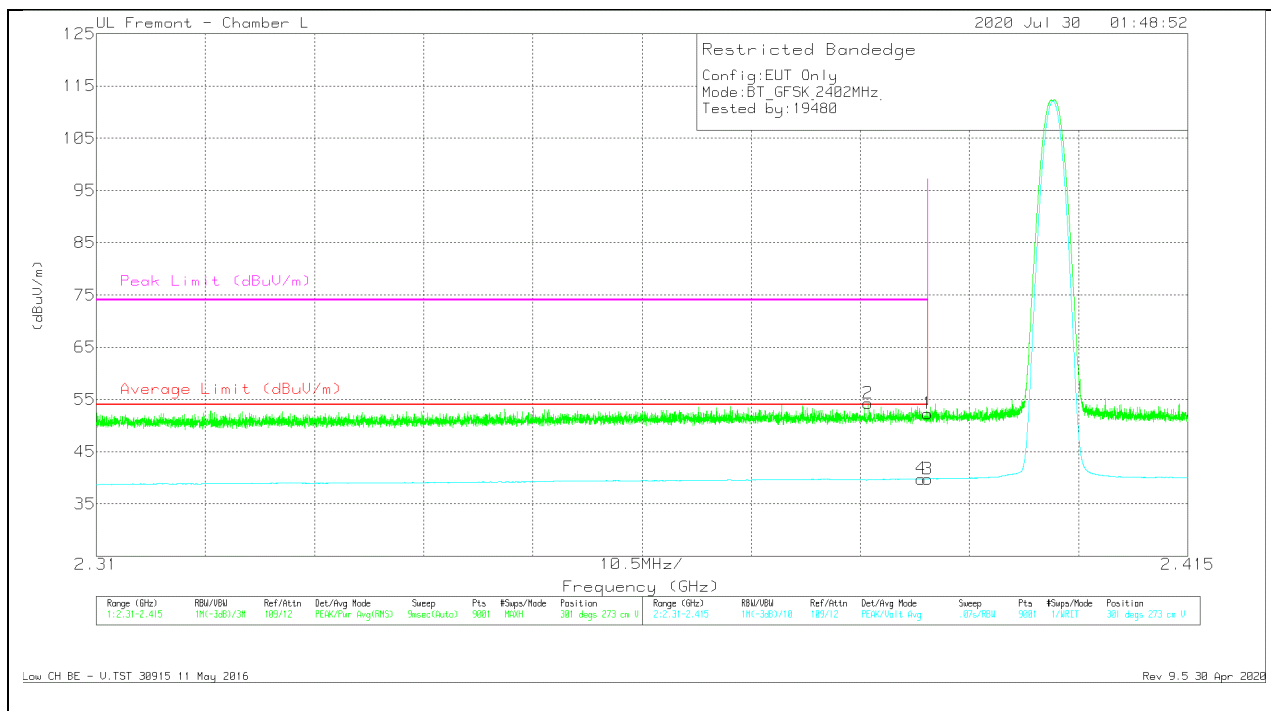
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	33.66	Pk	31.9	-13.1	52.46	-	-	74	-21.54	250	111	H
2	* 2.36233	35.96	Pk	31.7	-13.1	54.56	-	-	74	-19.44	250	111	H
3	* 2.38999	20.89	VA1T	31.9	-13.1	39.69	54	-14.31	-	-	250	111	H
4	* 2.38858	20.92	VA1T	31.9	-13.1	39.72	54	-14.28	-	-	250	111	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	33.43	Pk	31.9	-13.1	52.23	-	-	74	-21.77	301	273	V
2	* 2.38423	35.41	Pk	31.8	-13	54.21	-	-	74	-19.79	301	273	V
3	* 2.38999	20.95	VA1T	31.9	-13.1	39.75	54	-14.25	-	-	301	273	V
4	* 2.38938	21	VA1T	31.9	-13.1	39.8	54	-14.2	-	-	301	273	V

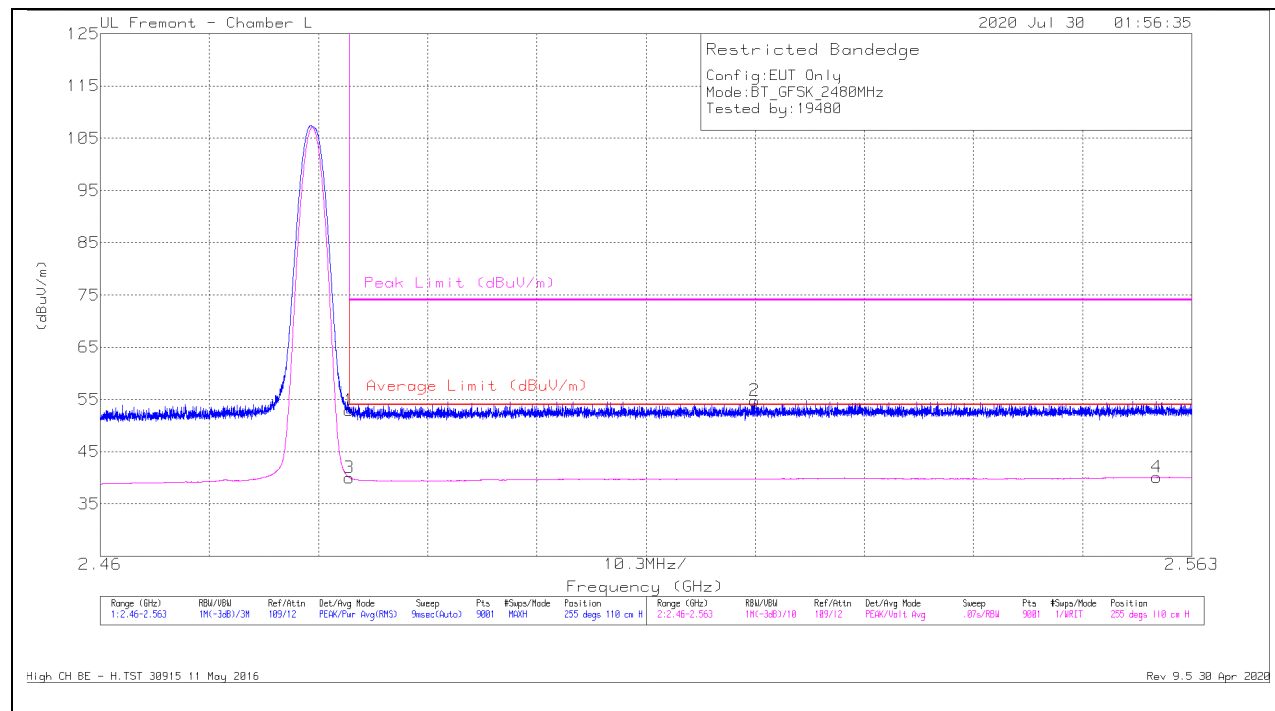
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



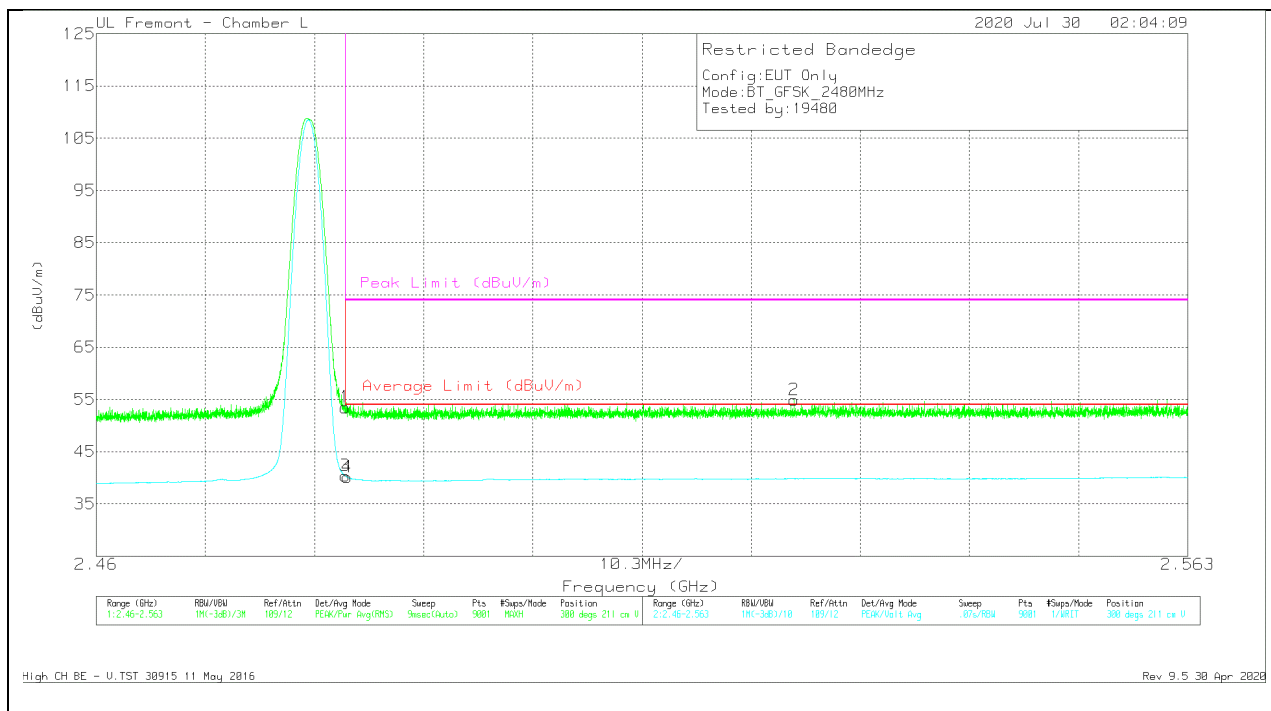
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	33.55	Pk	32.3	-12.9	52.95	-	-	74	-21.05	255	110	H
2	2.52172	35.3	Pk	32.3	-12.8	54.8	-	-	74	-19.2	255	110	H
3	* 2.48351	20.63	VA1T	32.3	-12.9	40.03	54	-13.97	-	-	255	110	H
4	2.55969	20.26	VA1T	32.4	-12.6	40.06	54	-13.94	-	-	255	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	34.06	Pk	32.3	-12.9	53.46	-	-	74	-20.54	300	211	V
2	2.52585	35.21	Pk	32.4	-12.7	54.91	-	-	74	-19.09	300	211	V
3	* 2.48351	20.94	VA1T	32.3	-12.9	40.34	54	-13.66	-	-	300	211	V
4	* 2.48367	20.74	VA1T	32.3	-12.9	40.14	54	-13.86	-	-	300	211	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

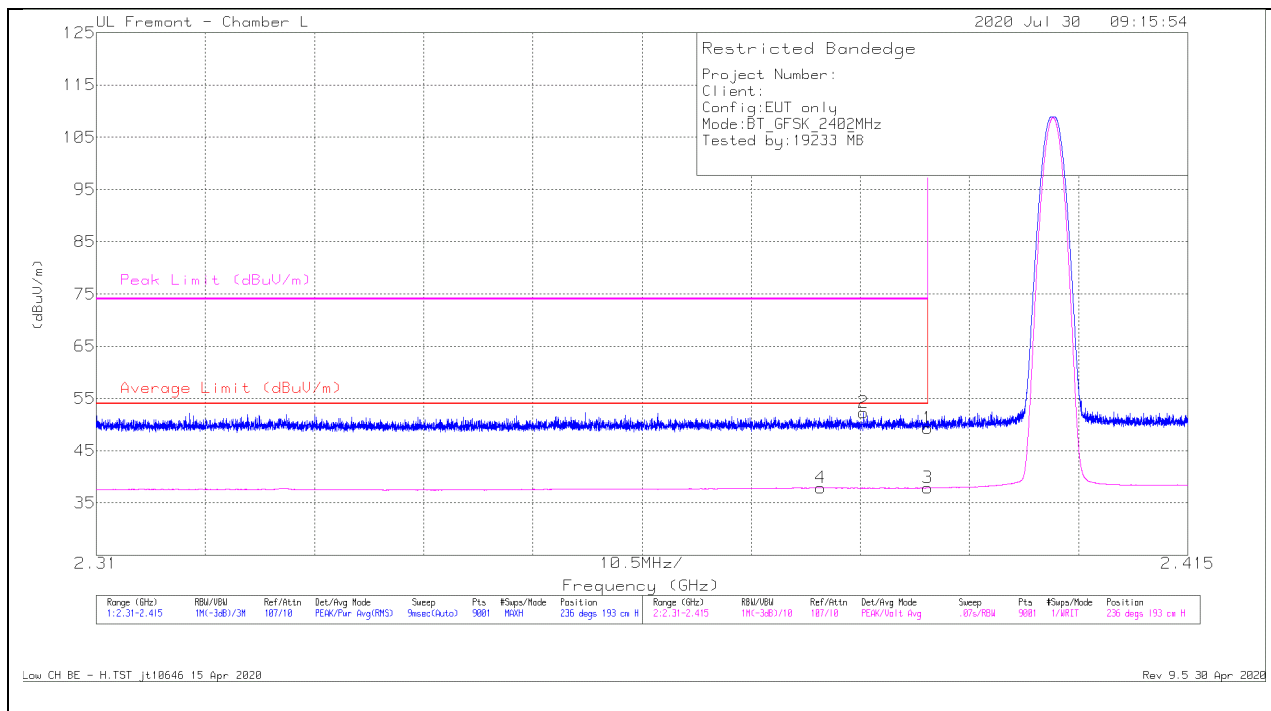
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



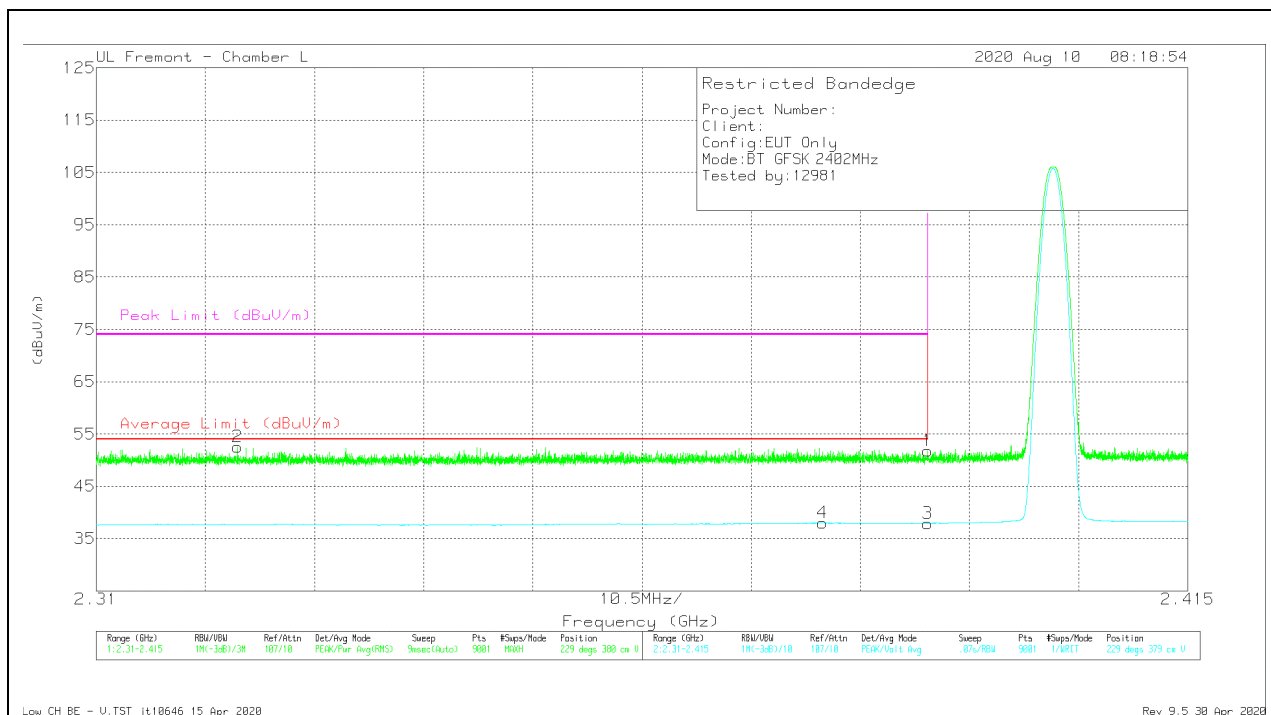
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.47	Pk	31.9	-21.1	49.27	-	-	74	-24.73	236	193	H
2	* 2.38379	41.58	Pk	31.8	-21.1	52.28	-	-	74	-21.72	236	193	H
3	* 2.38999	27.03	VA1T	31.9	-21.1	37.83	54	-16.17	-	-	236	193	H
4	* 2.37969	27.2	VA1T	31.8	-21.1	37.9	54	-16.1	-	-	236	193	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

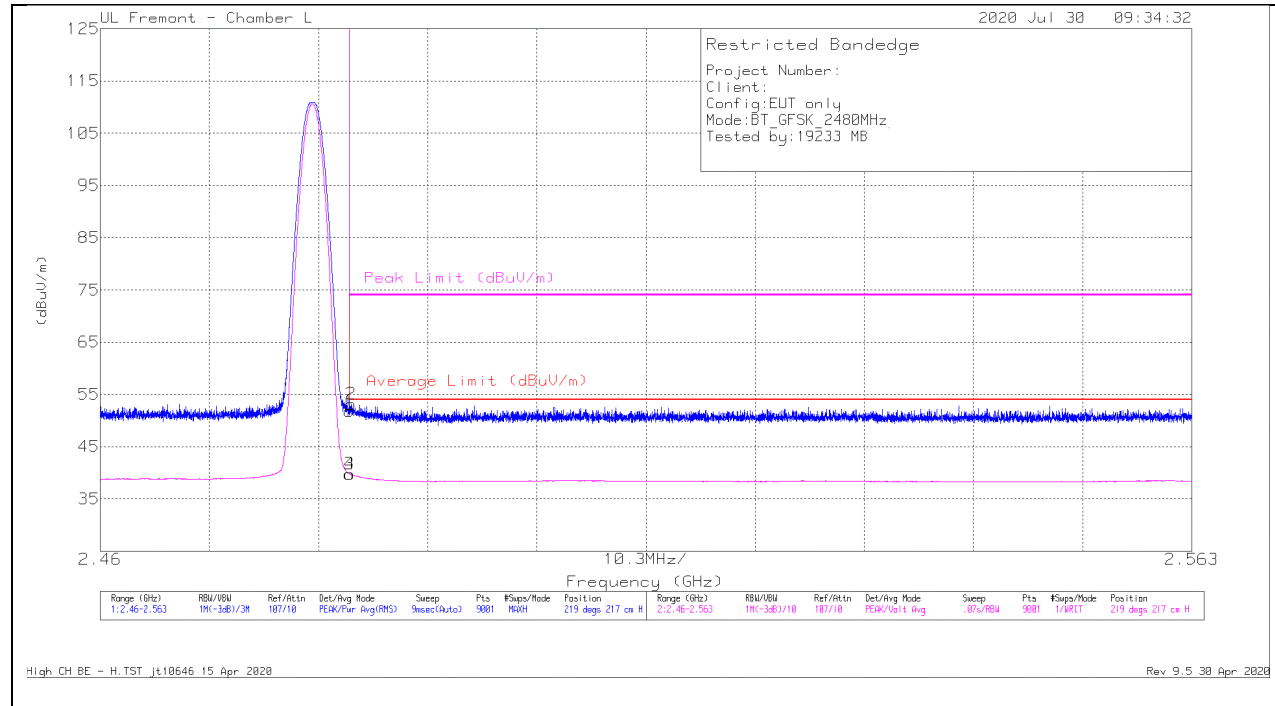


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/CbI/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	40.97	Pk	31.9	-21.1	51.77	-	-	74	-22.23	229	380	V
2	* 2.32357	42.15	Pk	31.7	-21.3	52.55	-	-	74	-21.45	229	380	V
3	* 2.38999	27.08	VA1T	31.9	-21.1	37.88	54	-16.12	-	-	229	379	V
4	* 2.37986	27.29	VA1T	31.8	-21.1	37.99	54	-16.01	-	-	229	379	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

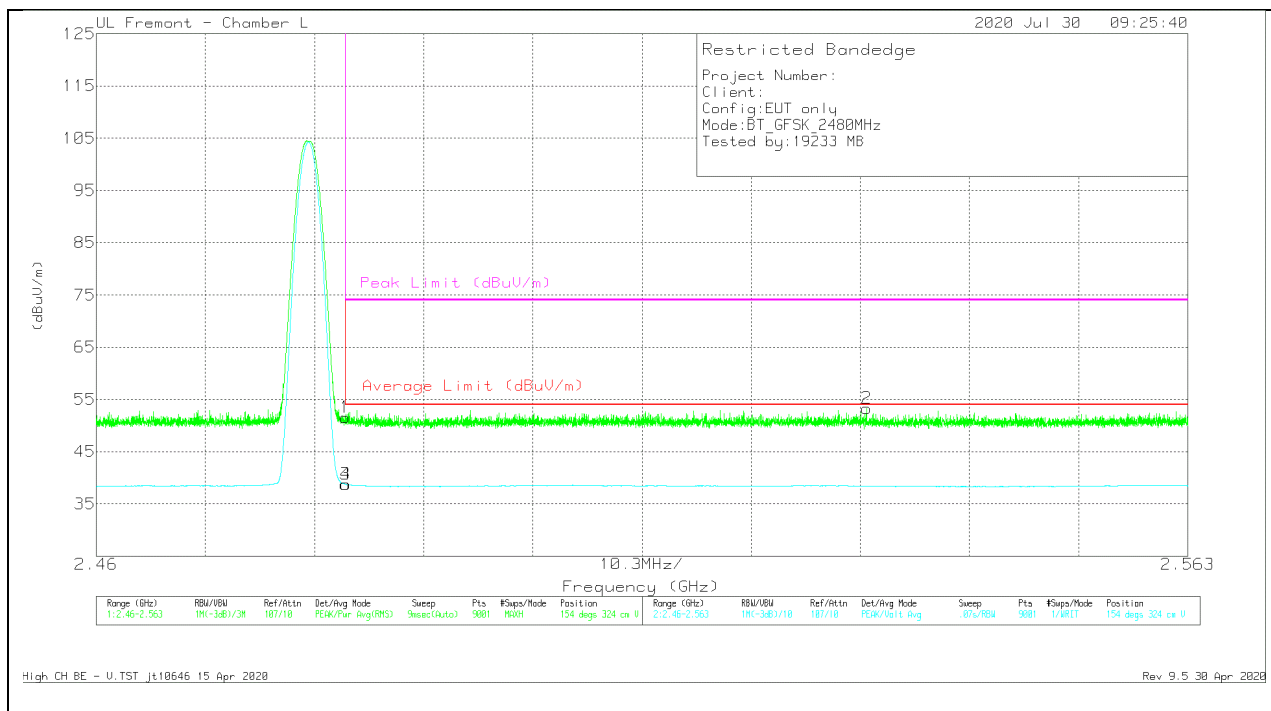
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.42	Pk	32.3	-20.9	51.82	-	-	74	-22.18	219	217	H
2	* 2.48365	41.76	Pk	32.3	-20.9	53.16	-	-	74	-20.84	219	217	H
3	* 2.48351	28.38	VA1T	32.3	-20.9	39.78	54	-14.22	-	-	219	217	H
4	* 2.48357	28.33	VA1T	32.3	-20.9	39.73	54	-14.27	-	-	219	217	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF 344 (dB/m)	Amp/Cb1/Filt/Pa d (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.13	Pk	32.3	-20.9	51.53	-	-	74	-22.47	154	324	V
2	2.53268	41.85	Pk	32.3	-20.9	53.25	-	-	74	-20.75	154	324	V
3	* 2.48351	27.34	VA1T	32.3	-20.9	38.74	54	-15.26	-	-	154	324	V
4	* 2.48354	27.32	VA1T	32.3	-20.9	38.72	54	-15.28	-	-	154	324	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

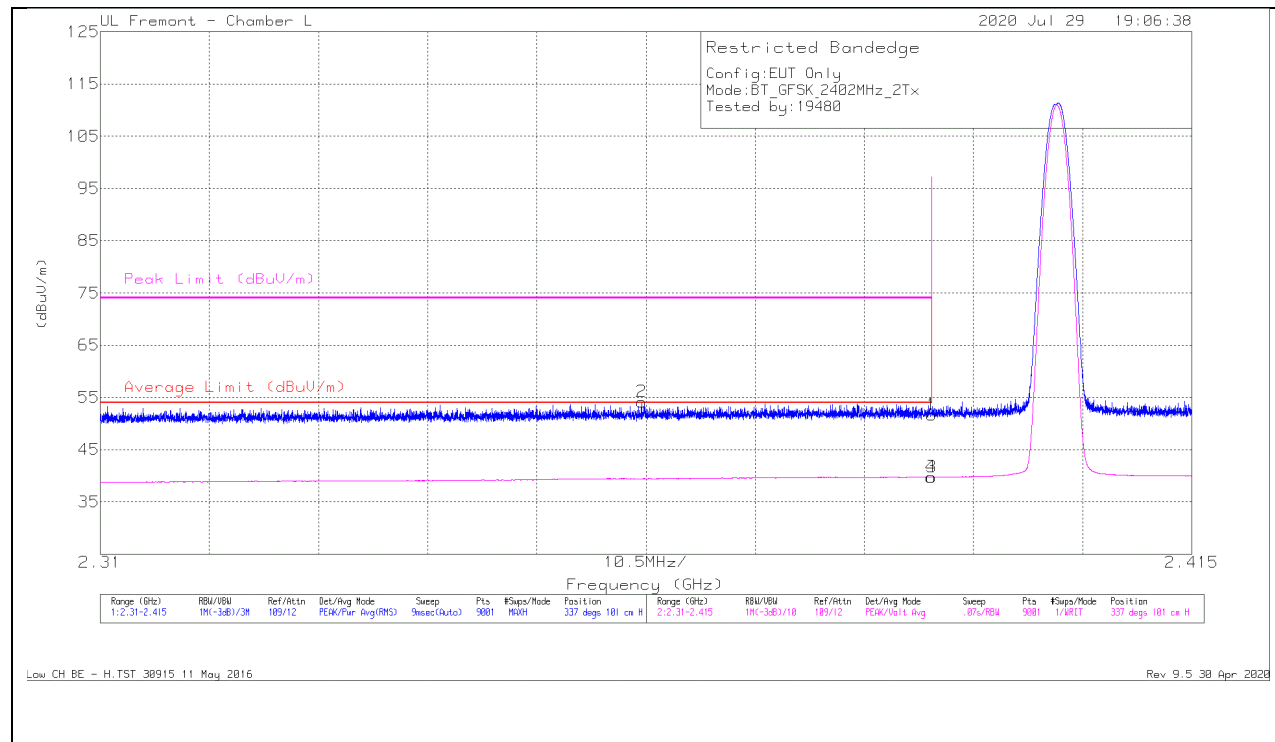
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.2. HIGH POWER BASIC DATA RATE TX BF GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



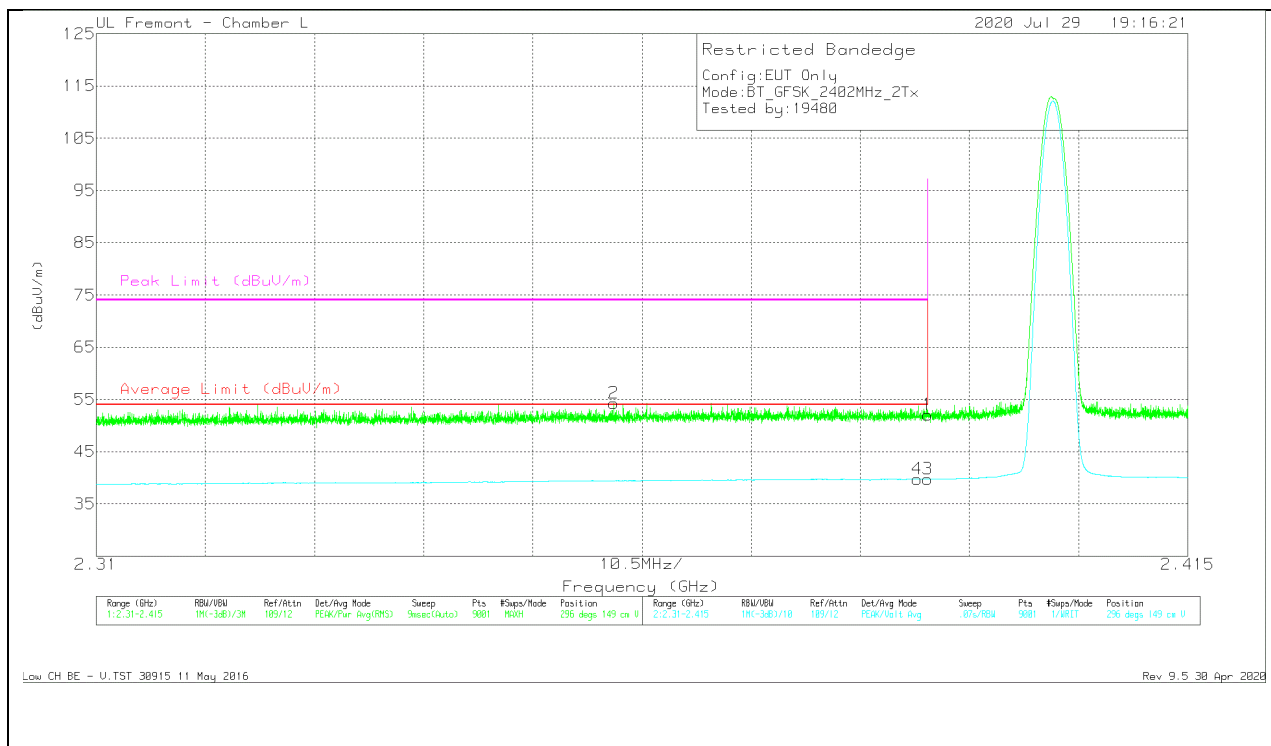
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	32.82	Pk	31.9	-13.1	51.62	-	-	74	-22.38	337	101	H
2	* 2.36207	35.52	Pk	31.7	-13.1	54.12	-	-	74	-19.88	337	101	H
3	* 2.38999	20.94	VA1T	31.9	-13.1	39.74	54	-14.26	-	-	337	101	H
4	* 2.38993	20.95	VA1T	31.9	-13.1	39.75	54	-14.25	-	-	337	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	33.2	Pk	31.9	-13.1	52	-	-	74	-22	296	149	V
2	* 2.35978	35.72	Pk	31.7	-13.1	54.32	-	-	74	-19.68	296	149	V
3	* 2.38999	20.92	VA1T	31.9	-13.1	39.72	54	-14.28	-	-	296	149	V
4	* 2.38896	20.98	VA1T	31.9	-13.1	39.78	54	-14.22	-	-	296	149	V

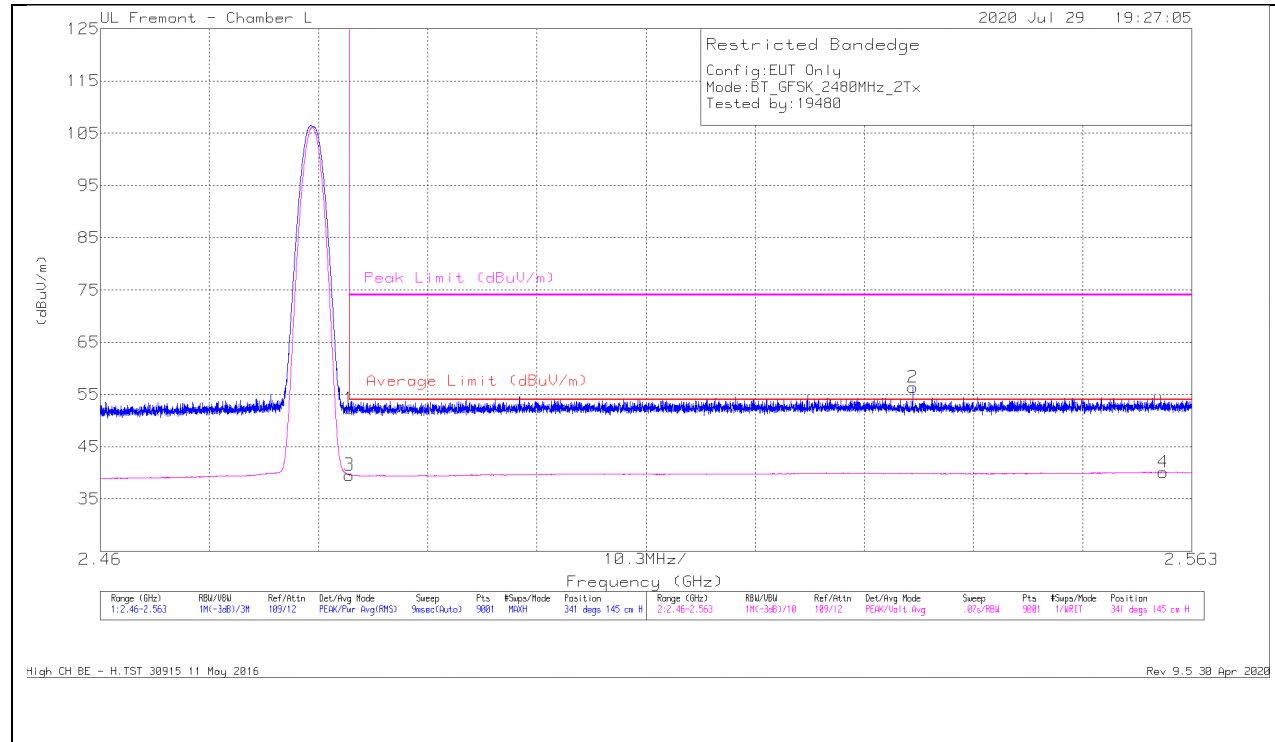
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



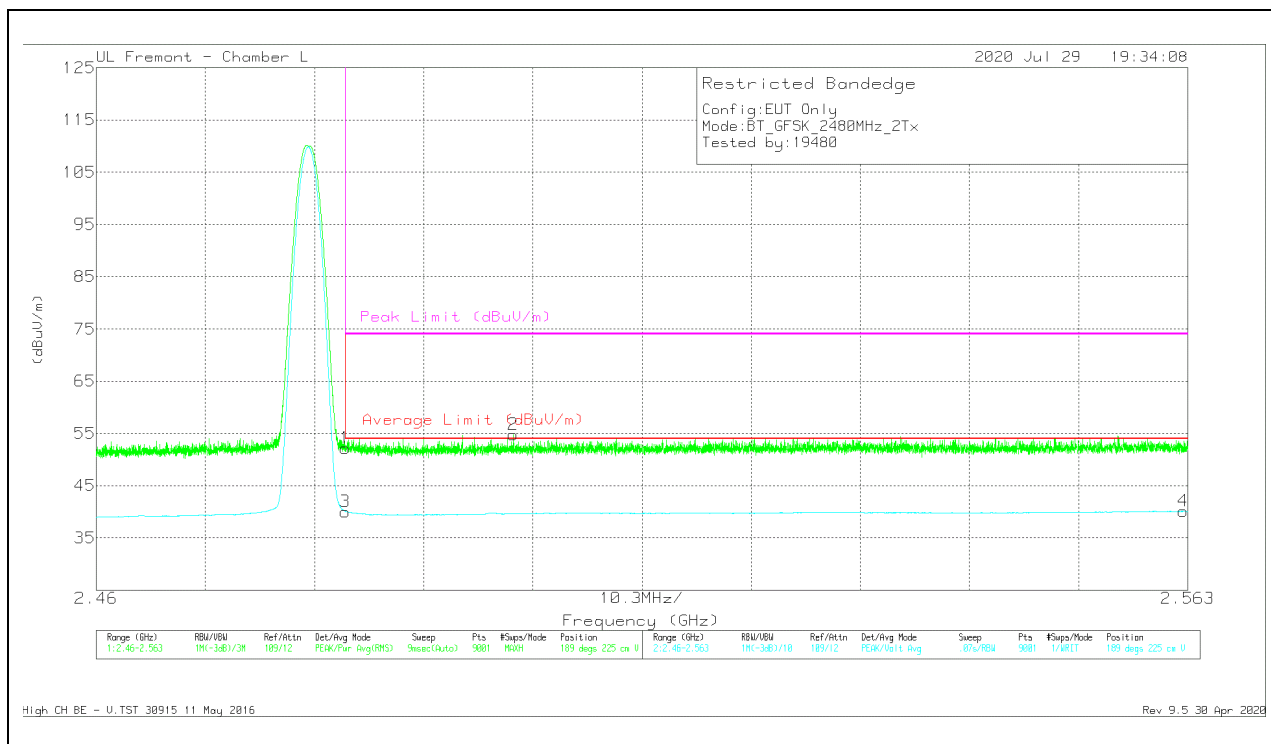
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	32.9	Pk	32.3	-12.9	52.3	-	-	74	-21.7	341	145	H
2	2.53666	36.79	Pk	32.3	-12.7	56.39	-	-	74	-17.61	341	145	H
3	* 2.48351	20.15	VA1T	32.3	-12.9	39.55	54	-14.45	-	-	341	145	H
4	2.56033	20.3	VA1T	32.4	-12.6	40.1	54	-13.9	-	-	341	145	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	32.76	Pk	32.3	-12.9	52.16	-	-	74	-21.84	189	225	V
2	* 2.49937	35.17	Pk	32.4	-12.8	54.77	-	-	74	-19.23	189	225	V
3	* 2.48351	20.63	VA1T	32.3	-12.9	40.03	54	-13.97	-	-	189	225	V
4	2.56258	20.28	VA1T	32.4	-12.6	40.08	54	-13.92	-	-	189	225	V

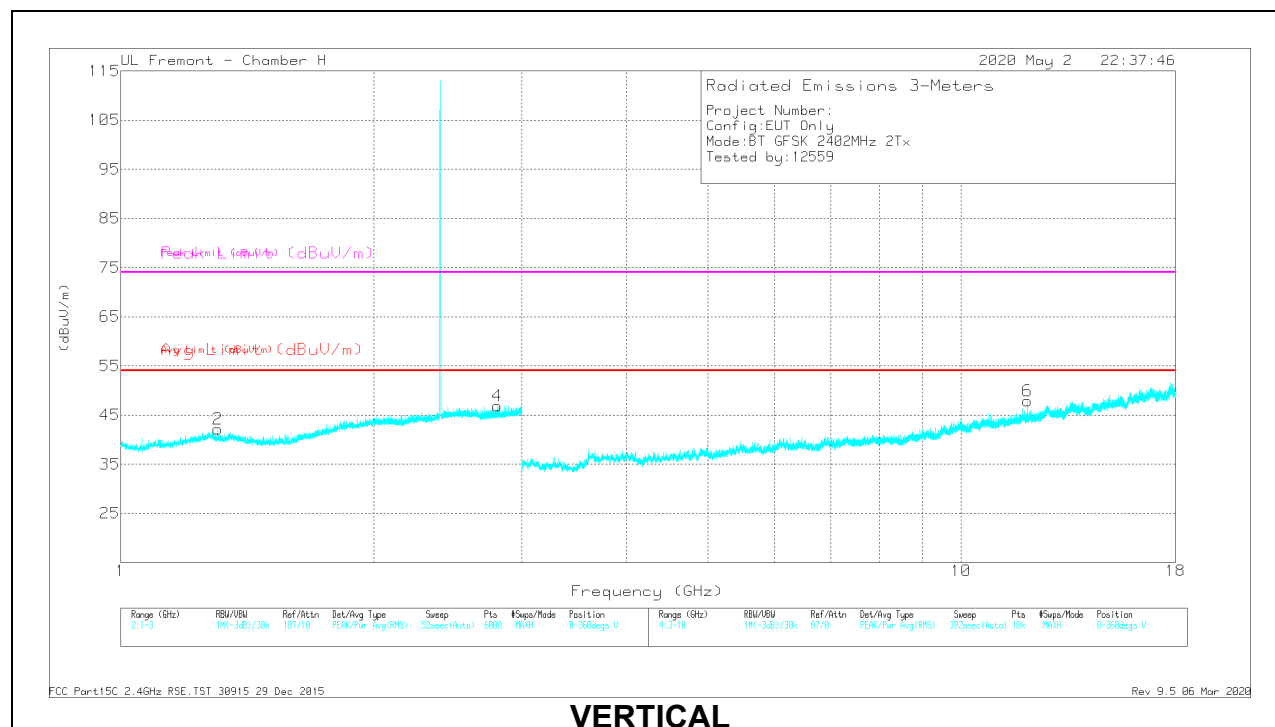
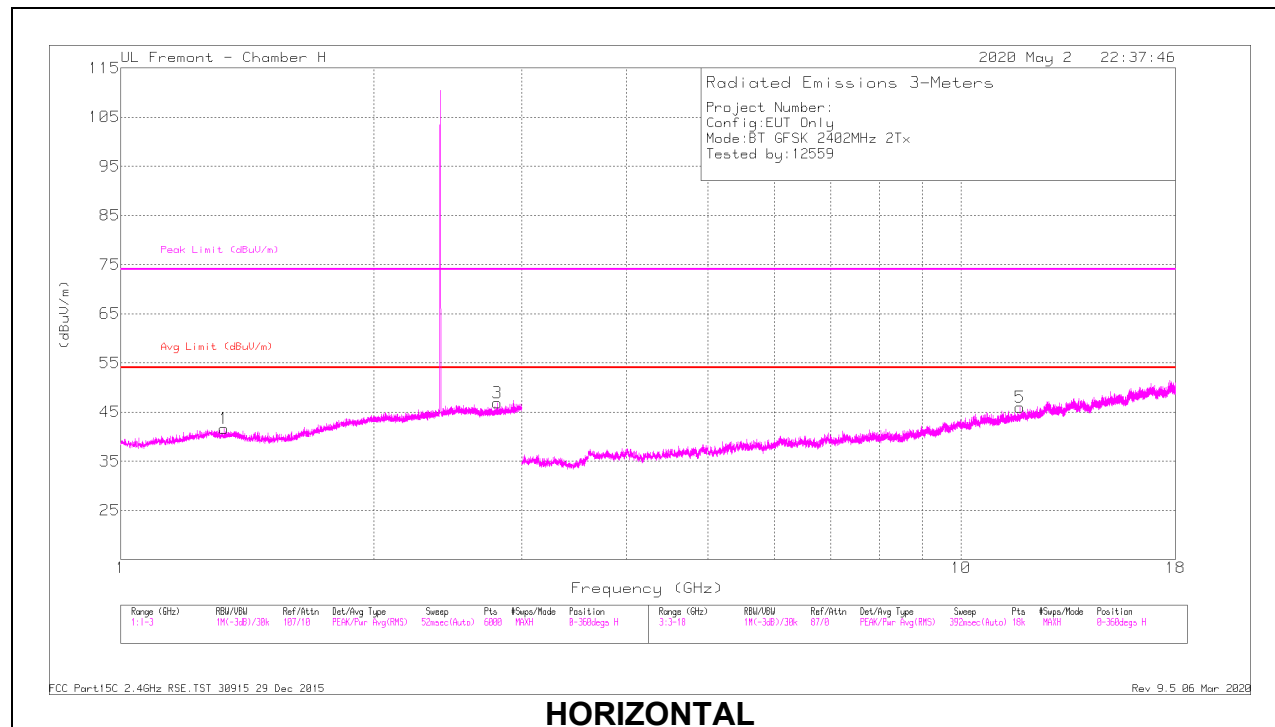
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

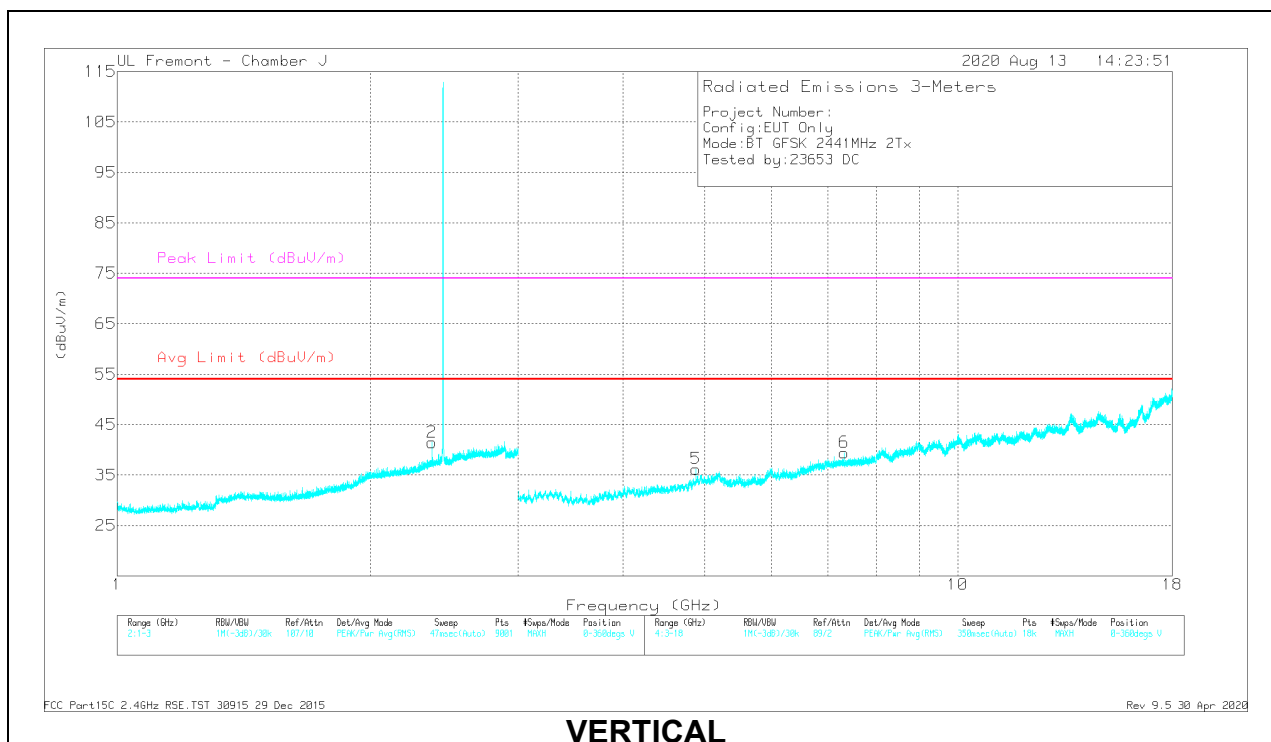
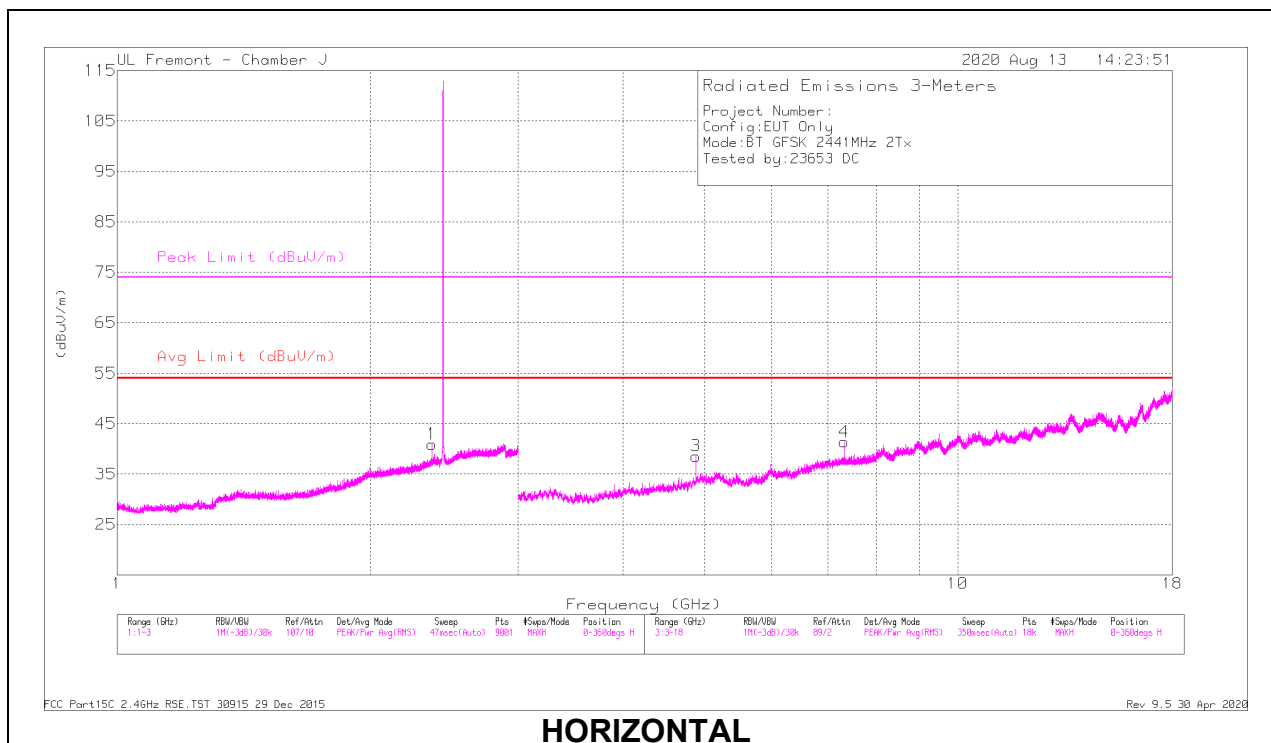
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.32574	43.8	PKFH	28.7	-25.5	47	-	-	74	-27	360	234	H
	* 1.32836	31.9	VA1T	28.7	-25.5	35.1	54	-18.9	-	-	360	234	H
3	* 2.80627	43.29	PKFH	32.4	-23.5	52.19	-	-	74	-21.81	33	262	H
	* 2.8049	30.86	VA1T	32.4	-23.5	39.76	54	-14.24	-	-	33	262	H
2	* 1.30282	43.42	PKFH	29	-25.6	46.82	-	-	74	-27.18	280	112	V
	* 1.30354	31.83	VA1T	29	-25.6	35.23	54	-18.77	-	-	280	112	V
4	* 2.80848	42.47	PKFH	32.4	-23.5	51.37	-	-	74	-22.63	322	178	V
	* 2.80746	30.83	VA1T	32.4	-23.5	39.73	54	-14.27	-	-	322	178	V
5	* 11.75591	36.19	PKFH	38.4	-23.7	50.89	-	-	74	-23.11	163	358	H
	* 11.75802	24.22	VA1T	38.4	-23.7	38.92	54	-15.08	-	-	163	358	H
6	* 11.99617	37.89	PKFH	38.7	-23.7	52.89	-	-	74	-21.11	232	199	V
	* 11.996	26.53	VA1T	38.7	-23.7	41.53	54	-12.47	-	-	232	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



RADIATED EMISSIONS

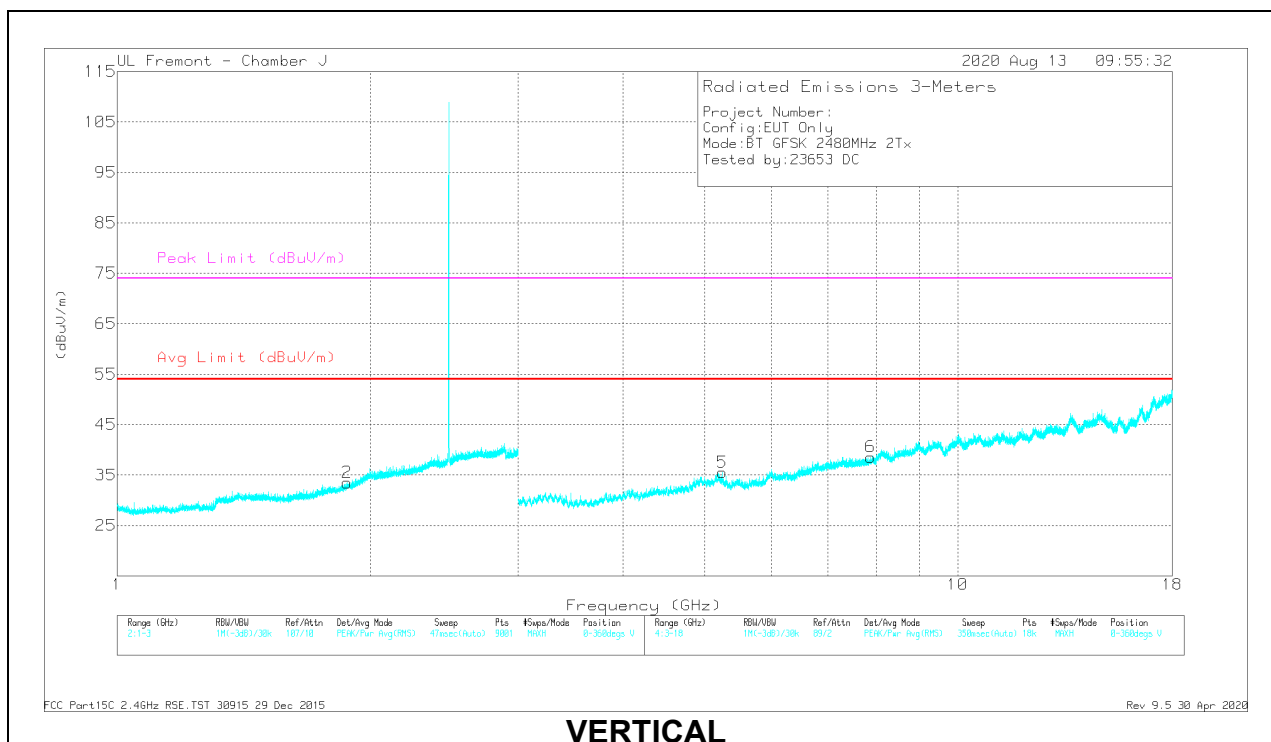
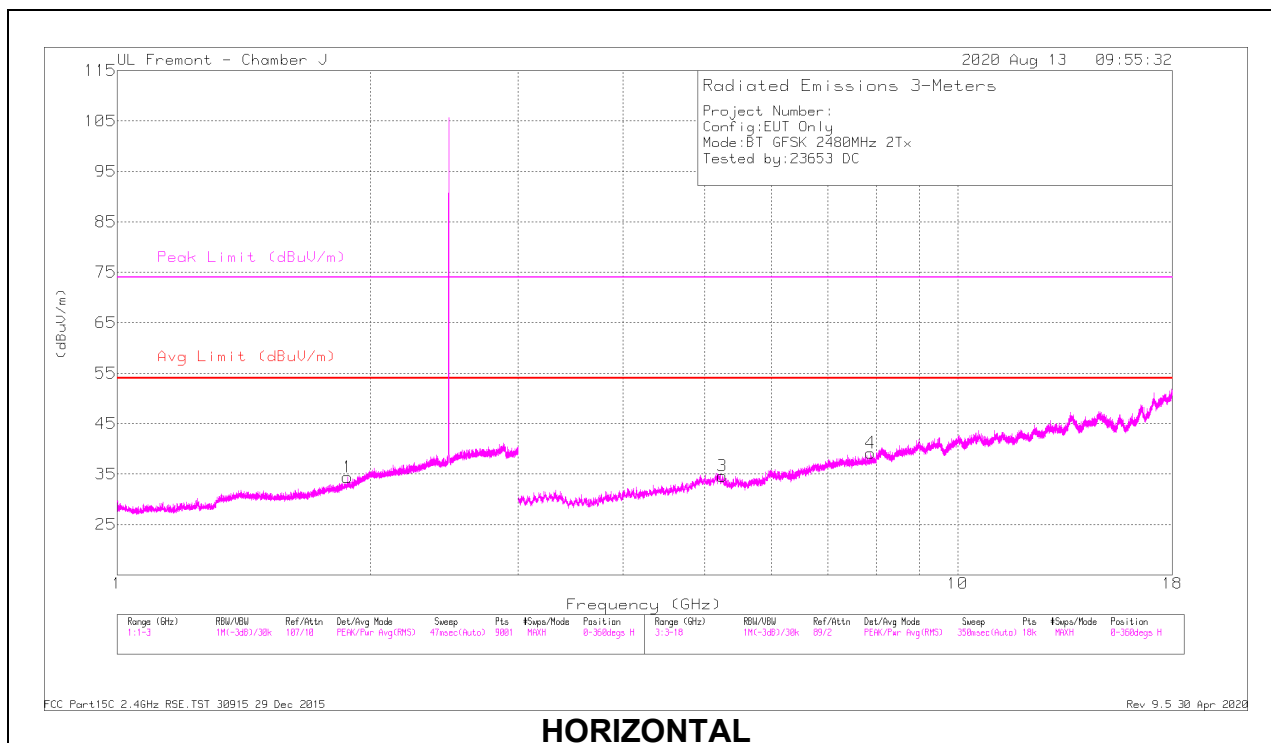
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.36744	34.59	PKFH	29	-14.8	48.79	-	-	74	-25.21	28	105	H
* 2.36727	24.71	VA1T	29	-14.8	38.91	54	-15.09	-	-	28	105	H
* 2.36848	34.49	PKFH	29	-14.8	48.69	-	-	74	-25.31	225	145	V
* 2.36741	25.33	VA1T	29	-14.8	39.53	54	-14.47	-	-	225	145	V
* 4.88026	40.75	PKFH	33.6	-31	43.35	-	-	74	-30.65	17	120	H
* 4.87979	29.63	VA1T	33.6	-31	32.23	54	-21.77	-	-	17	120	H
* 7.3209	36.65	PKFH	37.1	-27.1	46.65	-	-	74	-27.35	55	322	H
* 7.32078	22.96	VA1T	37	-27.1	32.86	54	-21.14	-	-	55	322	H
* 4.87976	40.56	PKFH	33.6	-31	43.16	-	-	74	-30.84	351	195	V
* 4.87954	28.9	VA1T	33.6	-31	31.5	54	-22.5	-	-	351	195	V
* 7.32272	35.37	PKFH	37.1	-27.1	45.37	-	-	74	-28.63	308	115	V
* 7.32274	22.96	VA1T	37.1	-27.1	32.96	54	-21.04	-	-	308	115	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.87846	31.91	PKFH	26.4	-16.1	42.21	-	-	172	165	H
1.88111	18.15	VA1T	26.4	-16.1	28.45	-	-	172	165	H
1.87831	31.24	PKFH	26.4	-16.1	41.54	-	-	108	366	V
1.87911	18.14	VA1T	26.4	-16.1	28.44	-	-	108	366	V
5.24584	39.05	PKFH	34	-29.7	43.35	-	-	344	286	H
5.2437	25.1	VA1T	34	-29.7	29.4	-	-	344	286	H
7.87466	35.97	PKFH	37.2	-26.7	46.47	-	-	178	152	H
7.87112	22.57	VA1T	37.2	-26.7	33.07	-	-	178	152	H
5.24506	38.42	PKFH	34	-29.7	42.72	-	-	74	200	V
5.24596	25.09	VA1T	34	-29.6	29.49	-	-	74	200	V
7.87585	36.14	PKFH	37.2	-26.7	46.64	-	-	217	230	V
7.87731	22.78	VA1T	37.3	-26.7	33.38	-	-	217	230	V

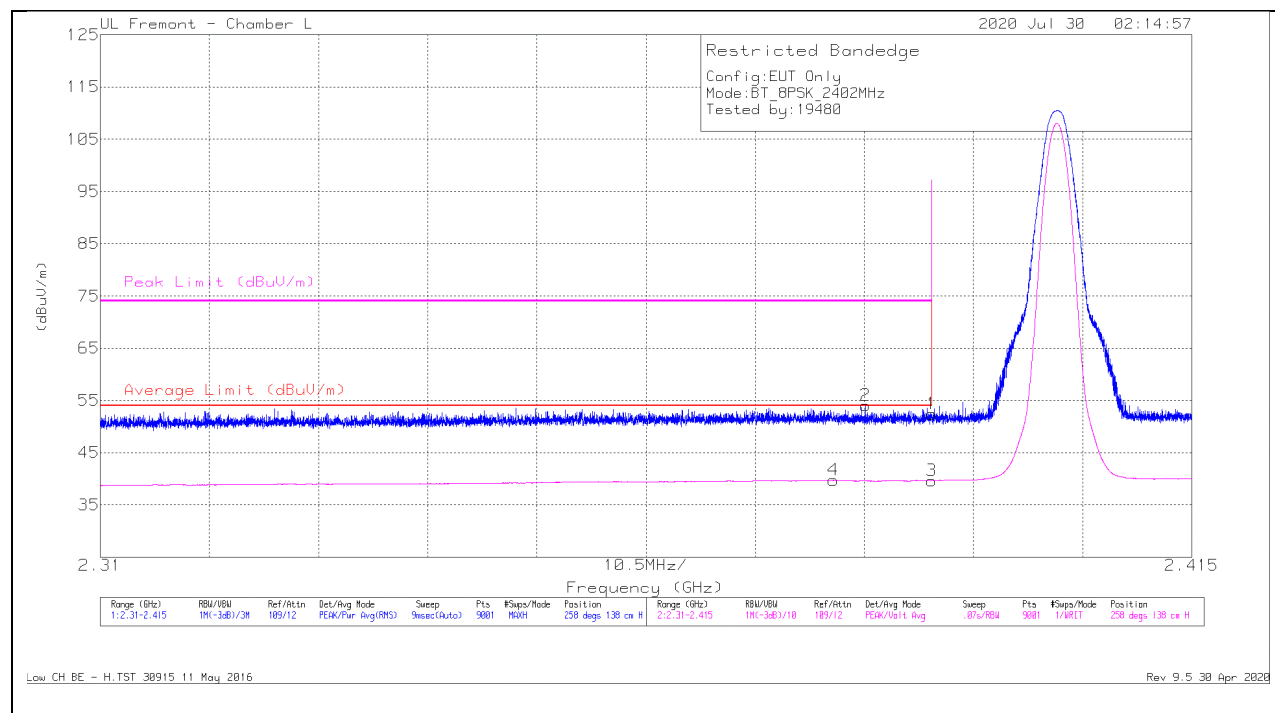
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



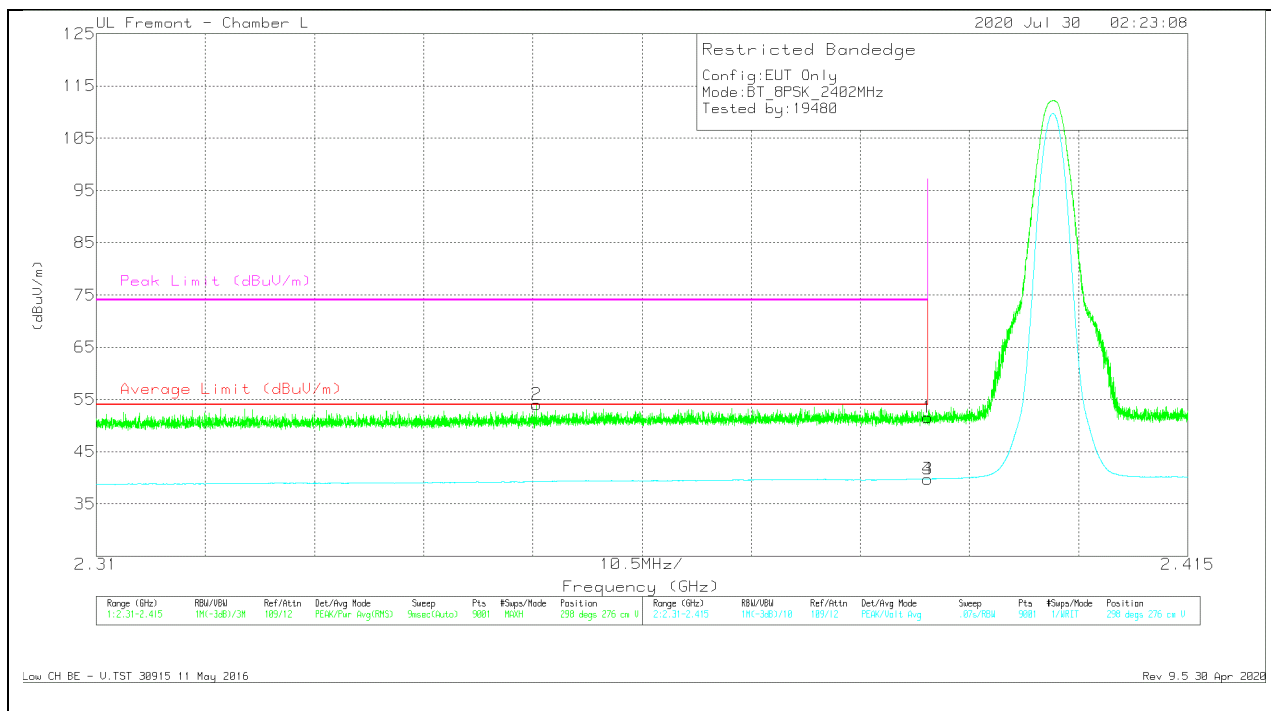
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	33.56	Pk	31.9	-13.1	52.36	-	-	74	-21.64	258	138	H
2	* 2.38361	35.22	Pk	31.8	-13	54.02	-	-	74	-19.98	258	138	H
3	* 2.38999	20.85	VA1T	31.9	-13.1	39.65	54	-14.35	-	-	258	138	H
4	* 2.38053	20.89	VA1T	31.8	-13	39.69	54	-14.31	-	-	258	138	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

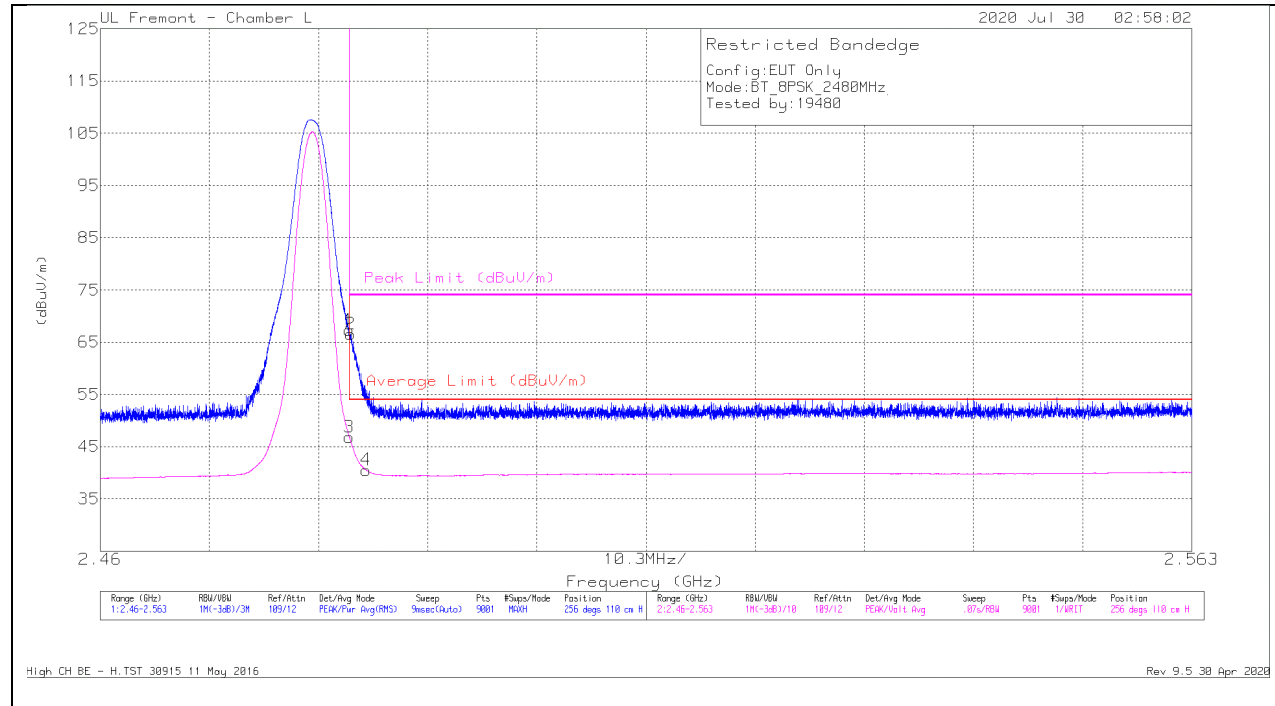


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	32.74	Pk	31.9	-13.1	51.54	-	-	74	-22.46	298	276	V
2	* 2.35235	35.49	Pk	31.6	-13.1	53.99	-	-	74	-20.01	298	276	V
3	* 2.38999	20.95	VA1T	31.9	-13.1	39.75	54	-14.25	-	-	298	276	V
4	* 2.38998	20.96	VA1T	31.9	-13.1	39.76	54	-14.24	-	-	298	276	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

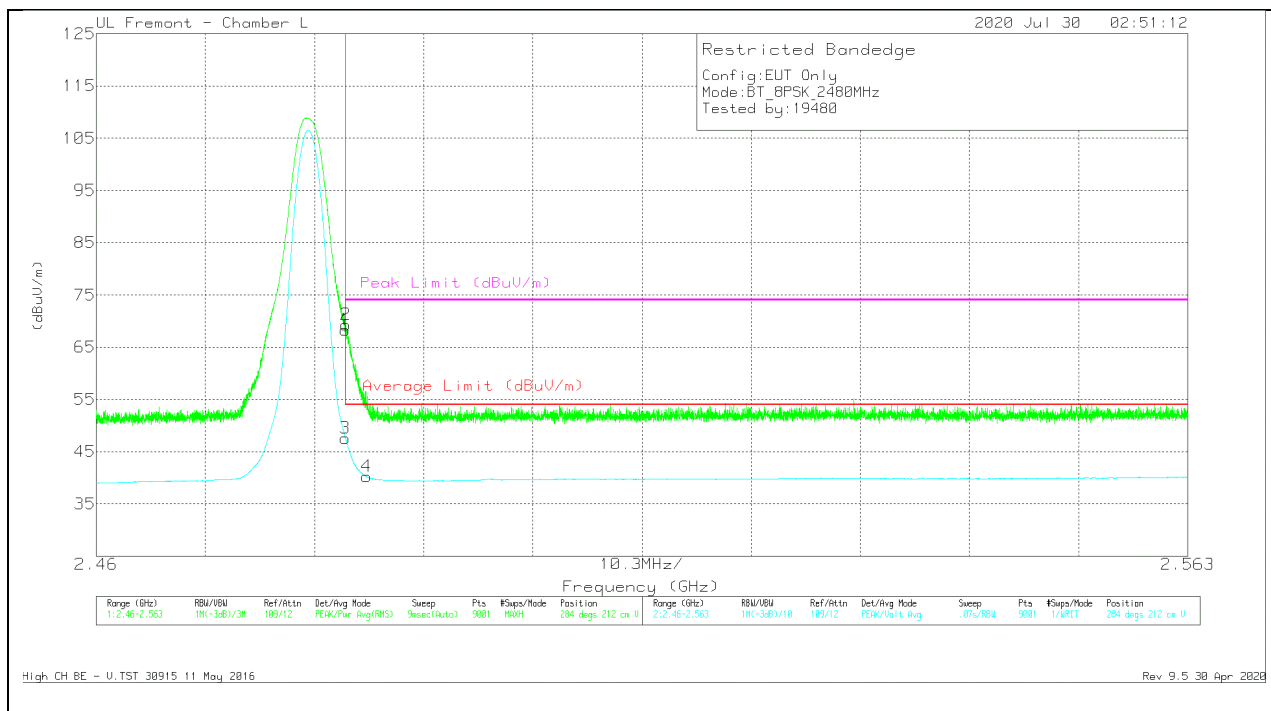
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	47.91	Pk	32.3	-12.9	67.31	-	-	74	-6.69	256	110	H
2	* 2.48364	47.12	Pk	32.3	-12.9	66.52	-	-	74	-7.48	256	110	H
3	* 2.48351	27.4	VA1T	32.3	-12.9	46.8	54	-7.2	-	-	256	110	H
4	* 2.48507	21.14	VA1T	32.3	-12.9	40.54	54	-13.46	-	-	256	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	48.88	Pk	32.3	-12.9	68.28	-	-	74	-5.72	284	212	V
2	* 2.48357	49.87	Pk	32.3	-12.9	69.27	-	-	74	-4.73	284	212	V
3	* 2.48351	28.21	VA1T	32.3	-12.9	47.61	54	-6.39	-	-	284	212	V
4	* 2.4855	20.79	VA1T	32.3	-12.9	40.19	54	-13.81	-	-	284	212	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

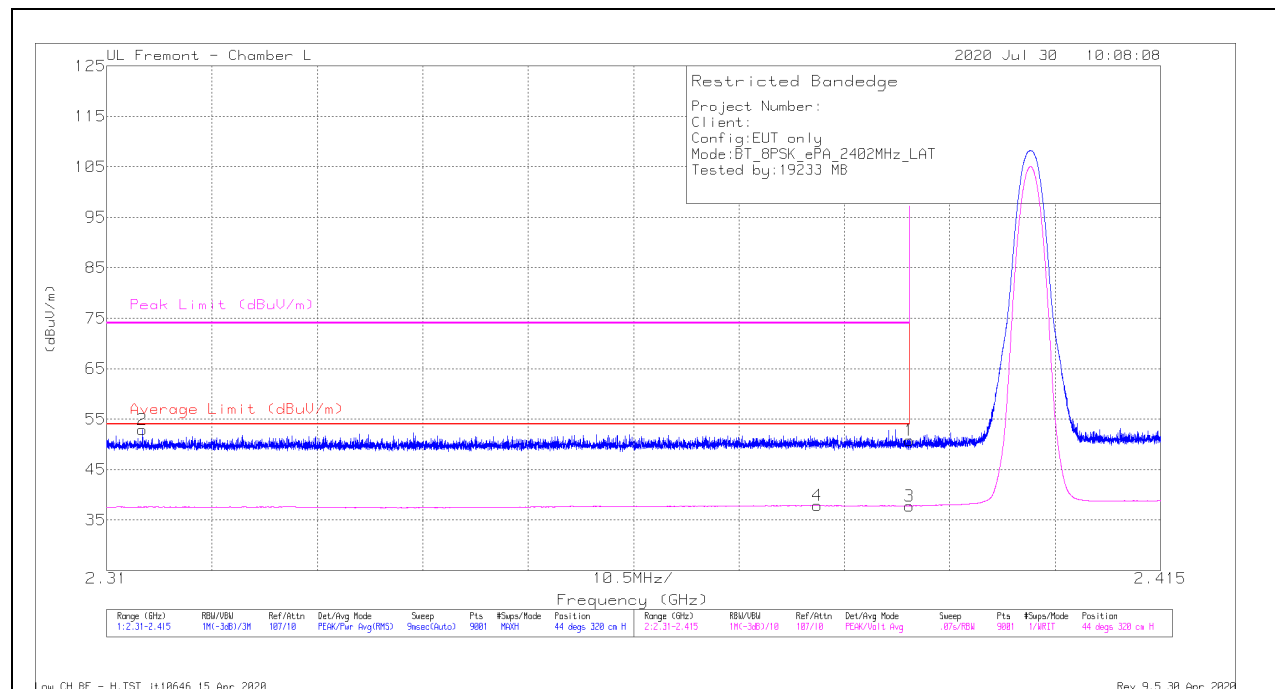
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



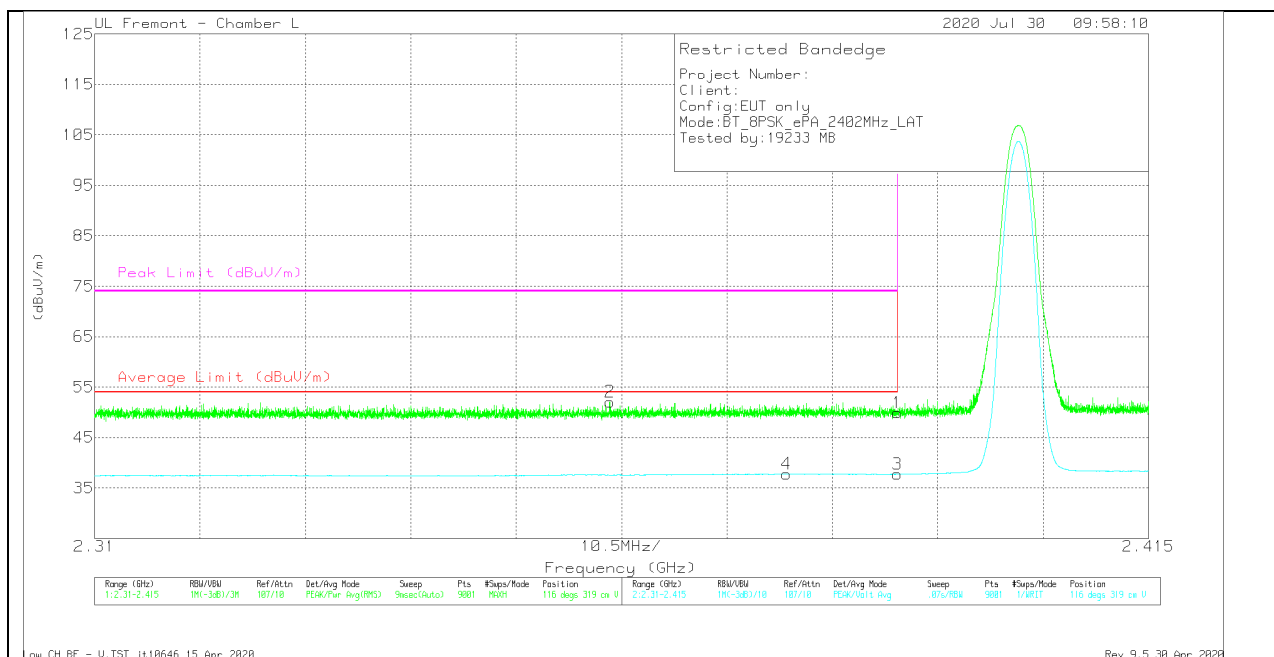
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/FitriPa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	40.03	Pk	31.9	-21.1	50.83	-	-	74	-23.17	44	320	H
2	* 2.31357	42.51	Pk	31.7	-21.3	52.91	-	-	74	-21.09	44	320	H
3	* 2.38999	26.99	VA1T	31.9	-21.1	37.79	54	-16.21	-	-	44	320	H
4	* 2.38078	27.2	VA1T	31.8	-21.1	37.9	54	-16.1	-	-	44	320	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.12	Pk	31.9	-21.1	49.92	-	-	74	-24.08	116	319	V
2	* 2.36131	41.59	Pk	31.7	-21.2	52.09	-	-	74	-21.91	116	319	V
3	* 2.38999	26.9	VA1T	31.9	-21.1	37.7	54	-16.3	-	-	116	319	V
4	* 2.37894	27.11	VA1T	31.8	-21.1	37.81	54	-16.19	-	-	116	319	V

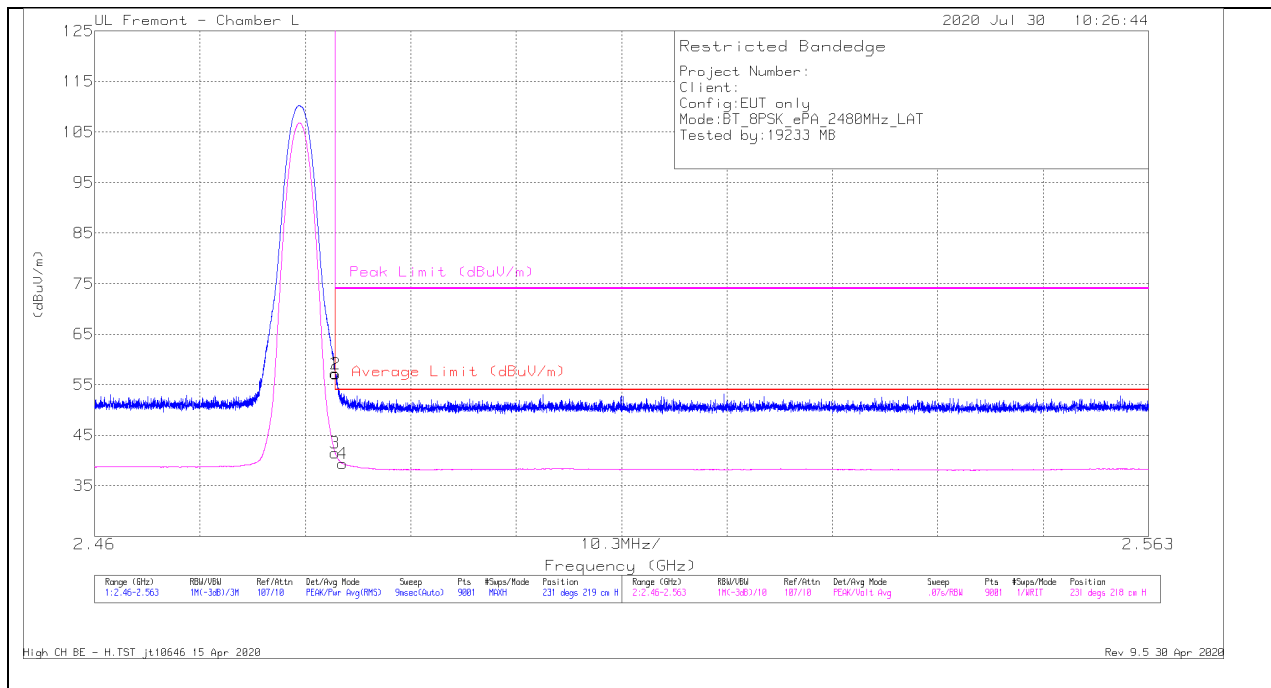
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



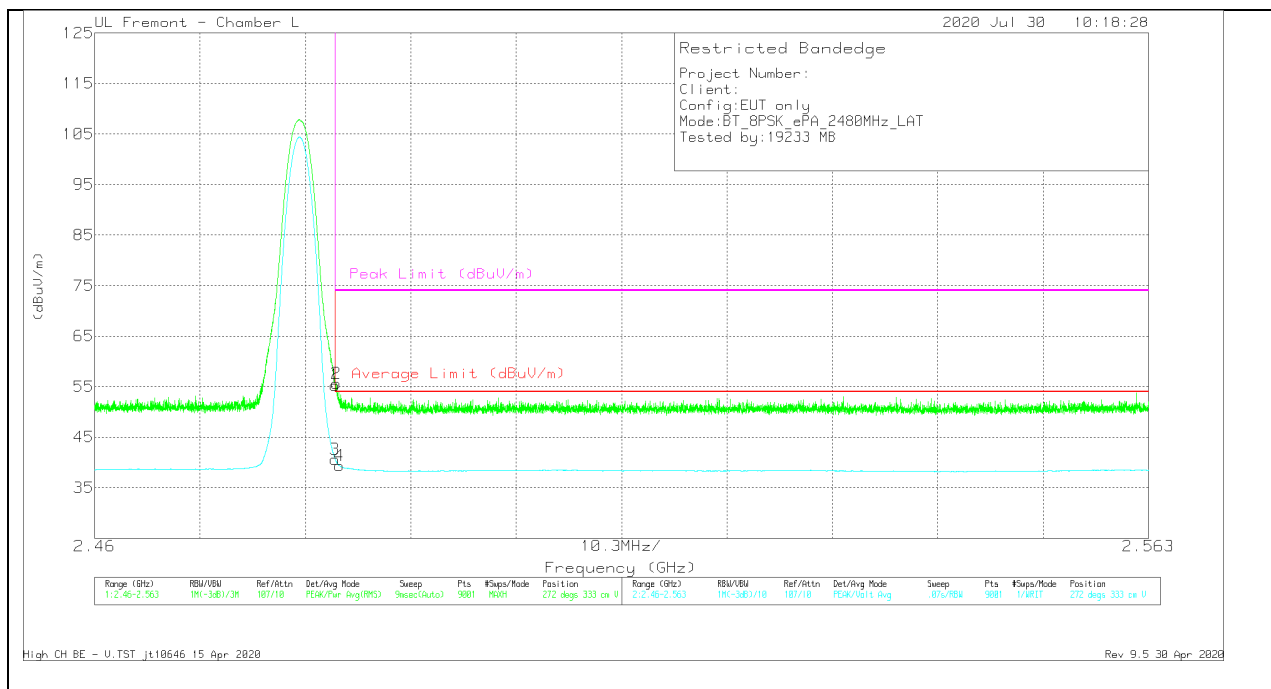
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	45.83	Pk	32.3	-20.9	57.23	-	-	74	-16.77	231	219	H
2	* 2.48354	45.67	Pk	32.3	-20.9	57.07	-	-	74	-16.93	231	219	H
3	* 2.48351	30.06	VA1T	32.3	-20.9	41.46	54	-12.54	-	-	231	218	H
4	* 2.4842	28.02	VA1T	32.3	-20.9	39.42	54	-14.58	-	-	231	218	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	43.92	Pk	32.3	-20.9	55.32	-	-	74	-18.68	272	333	V
2	* 2.48364	44.22	Pk	32.3	-20.9	55.62	-	-	74	-18.38	272	333	V
3	* 2.48351	29.21	VA1T	32.3	-20.9	40.61	54	-13.39	-	-	272	333	V
4	* 2.48394	27.92	VA1T	32.3	-20.9	39.32	54	-14.68	-	-	272	333	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

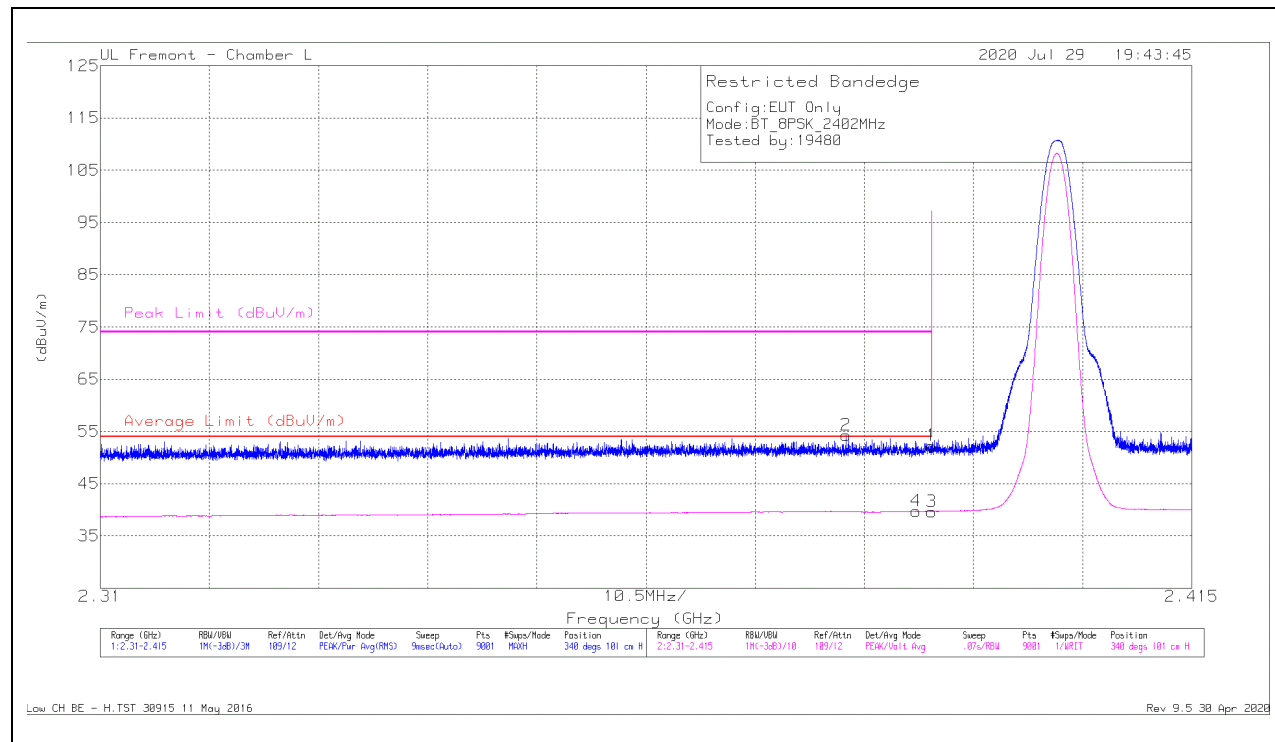
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.4. HIGH POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



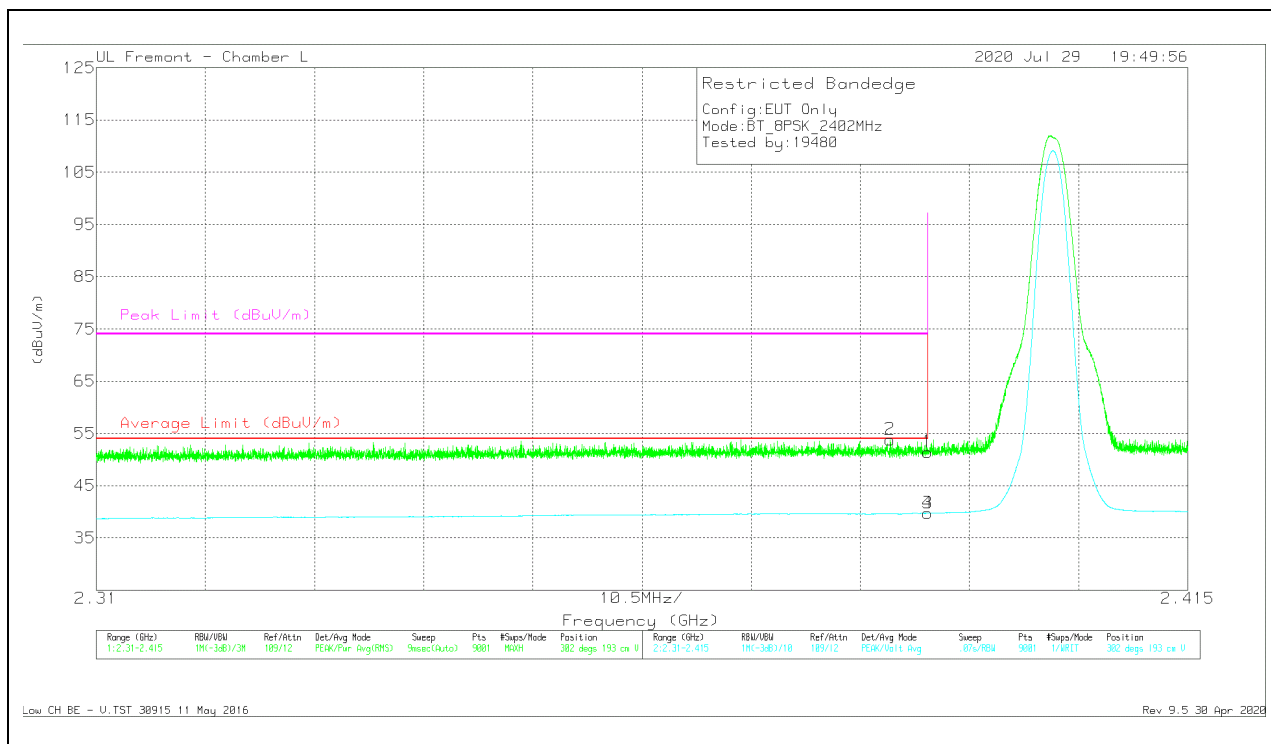
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	33.48	Pk	31.9	-13.1	52.28	-	-	74	-21.72	340	101	H
2	* 2.38173	35.44	Pk	31.8	-13	54.24	-	-	74	-19.76	340	101	H
3	* 2.38999	20.86	VA1T	31.9	-13.1	39.66	54	-14.34	-	-	340	101	H
4	* 2.3885	20.89	VA1T	31.9	-13.1	39.69	54	-14.31	-	-	340	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/CbI/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	32.67	Pk	31.9	-13.1	51.47	-	-	74	-22.53	302	193	V
2	* 2.38638	35.13	Pk	31.8	-13.1	53.83	-	-	74	-20.17	302	193	V
3	* 2.38999	20.94	VA1T	31.9	-13.1	39.74	54	-14.26	-	-	302	193	V
4	* 2.38998	20.94	VA1T	31.9	-13.1	39.74	54	-14.26	-	-	302	193	V

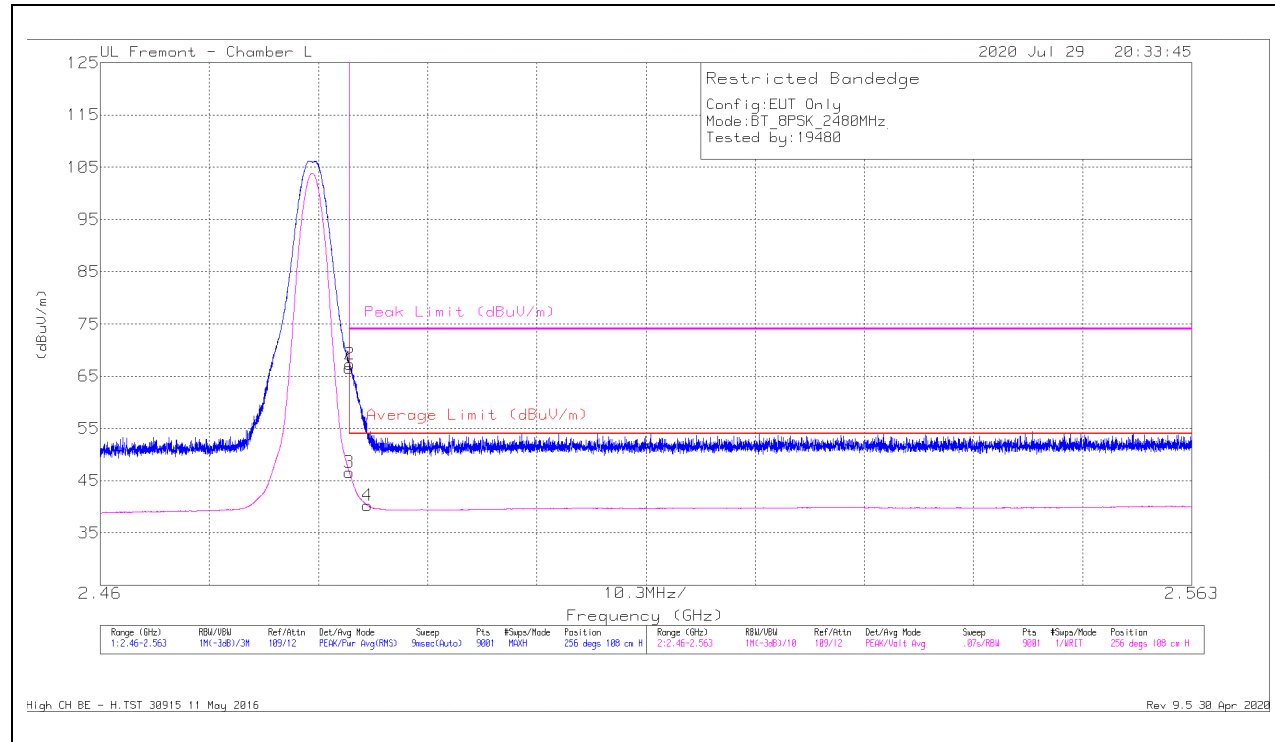
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



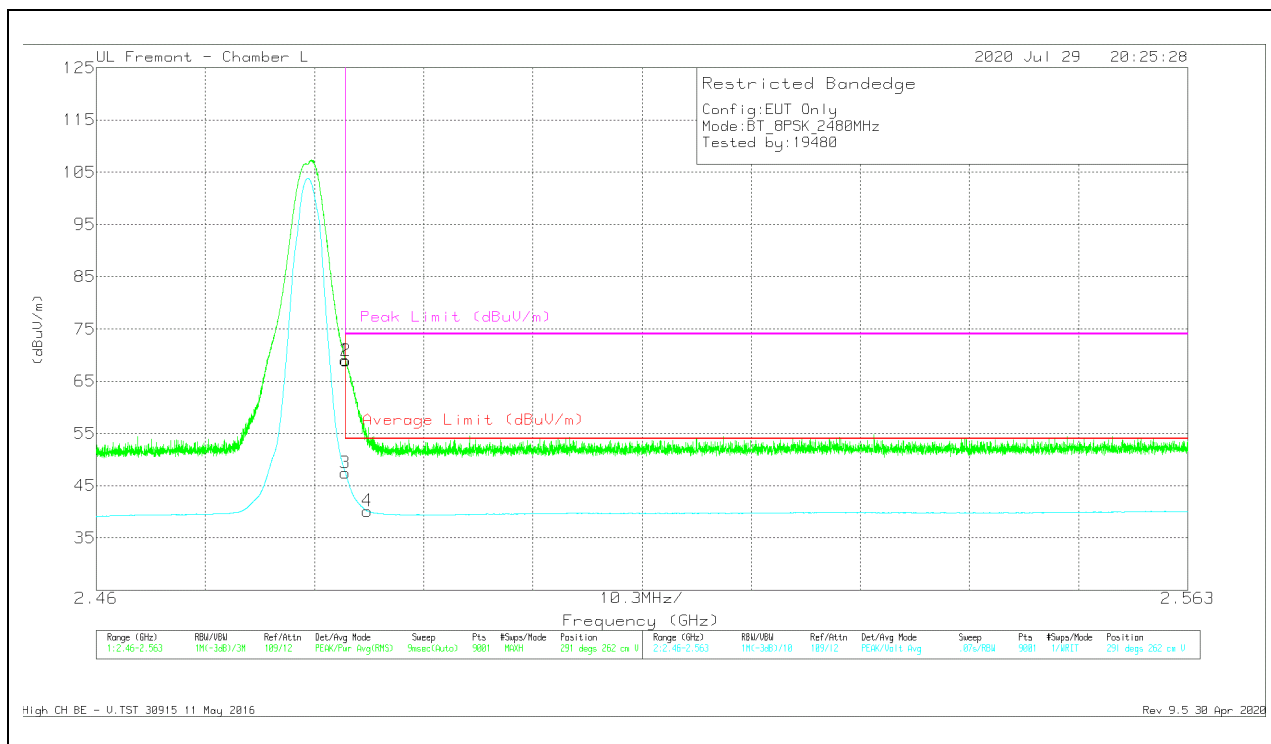
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	47.18	Pk	32.3	-12.9	66.58	-	-	74	-7.42	256	108	H
2	* 2.48353	47.87	Pk	32.3	-12.9	67.27	-	-	74	-6.73	256	108	H
3	* 2.48351	27.13	VA1T	32.3	-12.9	46.53	54	-7.47	-	-	256	108	H
4	* 2.48523	20.81	VA1T	32.3	-12.9	40.21	54	-13.79	-	-	256	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	49.67	Pk	32.3	-12.9	69.07	-	-	74	-4.93	291	262	V
2	* 2.48354	49.46	Pk	32.3	-12.9	68.86	-	-	74	-5.14	291	262	V
3	* 2.48351	28.05	VA1T	32.3	-12.9	47.45	54	-6.55	-	-	291	262	V
4	* 2.48555	20.77	VA1T	32.3	-12.9	40.17	54	-13.83	-	-	291	262	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

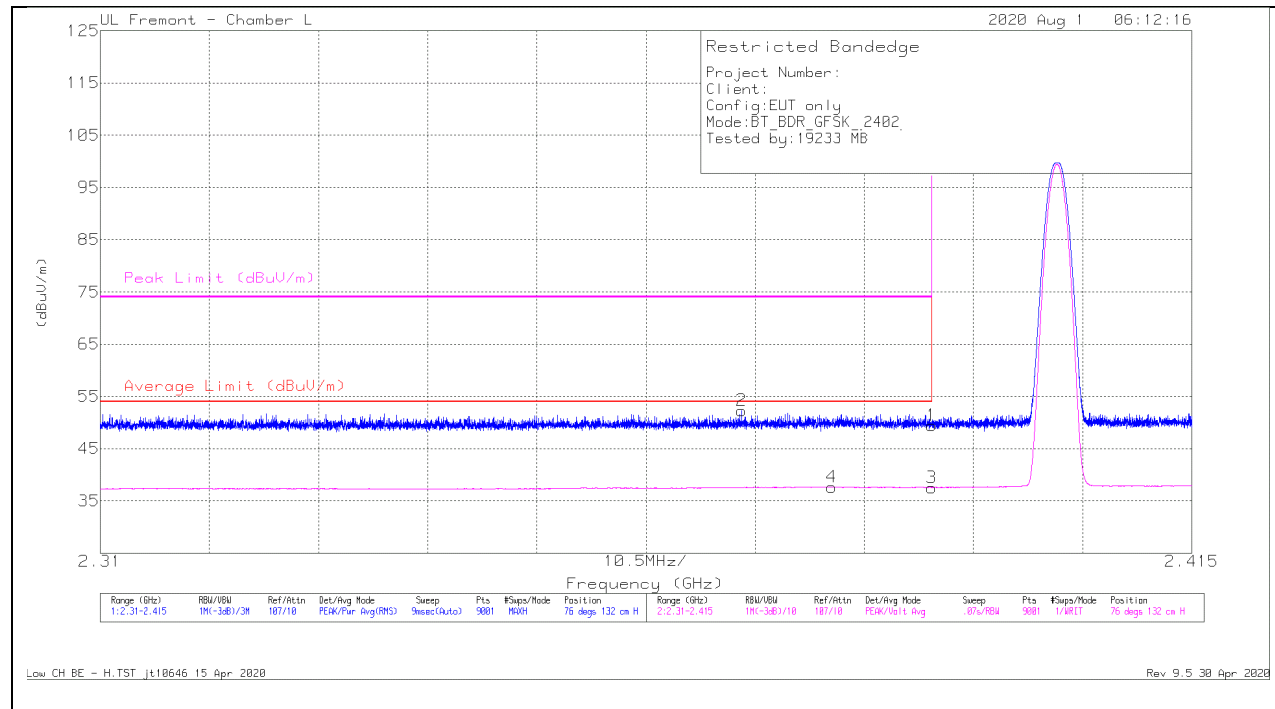
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.5. LOW POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



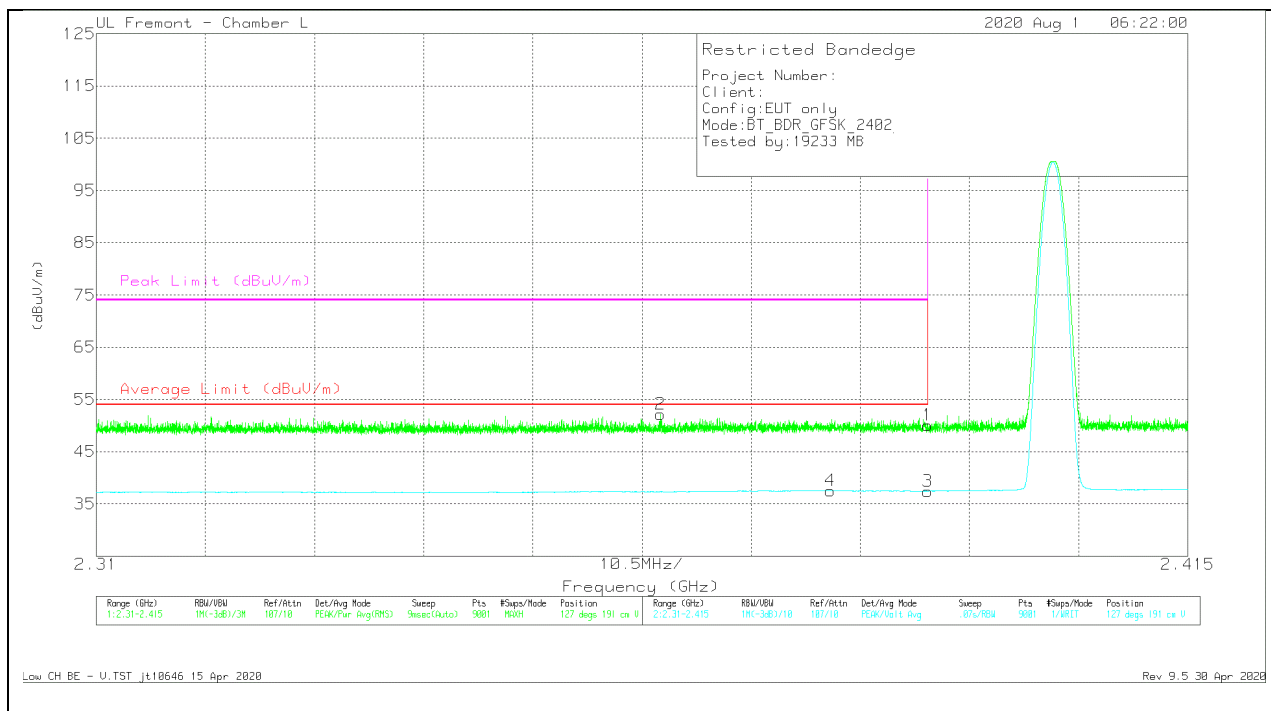
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.64	Pk	31.9	-21.1	49.44	-	-	74	-24.56	76	132	H
2	* 2.37168	41.65	Pk	31.8	-21.2	52.25	-	-	74	-21.75	76	132	H
3	* 2.38999	26.76	VA1T	31.9	-21.1	37.56	54	-16.44	-	-	76	132	H
4	* 2.38039	26.97	VA1T	31.8	-21.1	37.67	54	-16.33	-	-	76	132	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

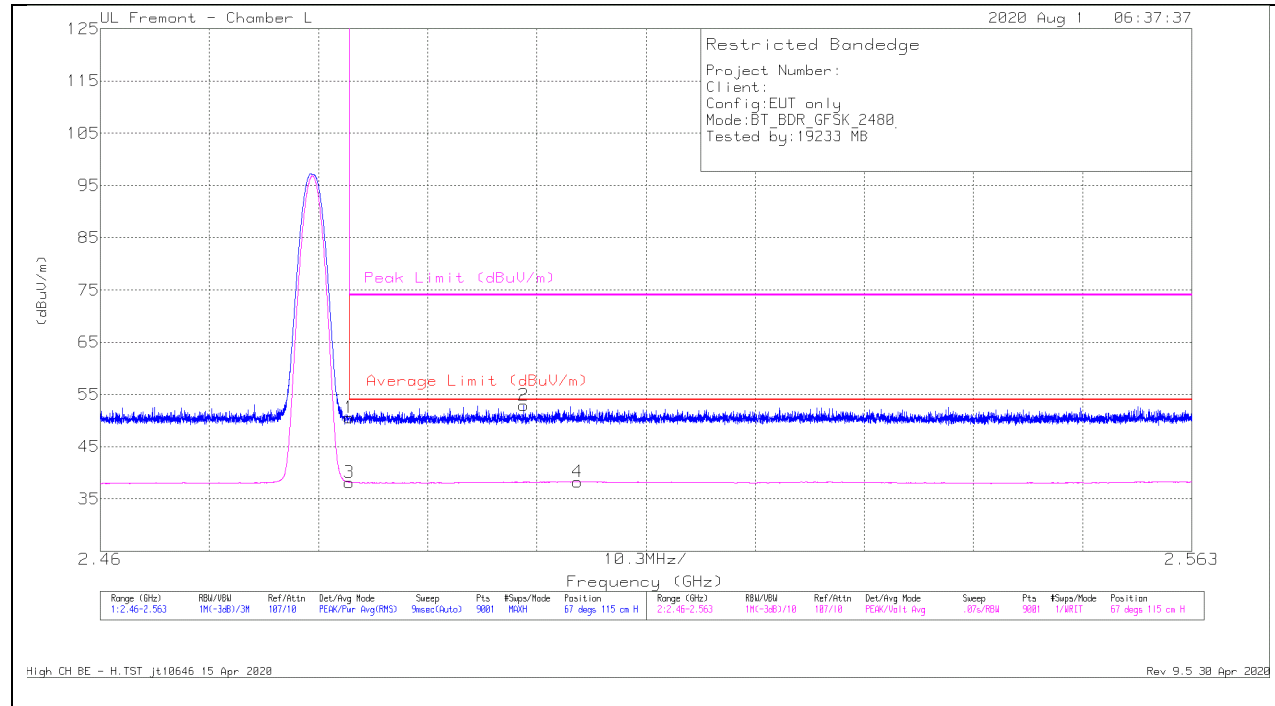


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cb1/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.27	Pk	31.9	-21.1	50.07	-	-	74	-23.93	127	191	V
2	* 2.36425	41.62	Pk	31.7	-21.2	52.12	-	-	74	-21.88	127	191	V
3	* 2.38999	26.61	VA1T	31.9	-21.1	37.41	54	-16.59	-	-	127	191	V
4	* 2.38064	26.86	VA1T	31.8	-21.1	37.56	54	-16.44	-	-	127	191	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

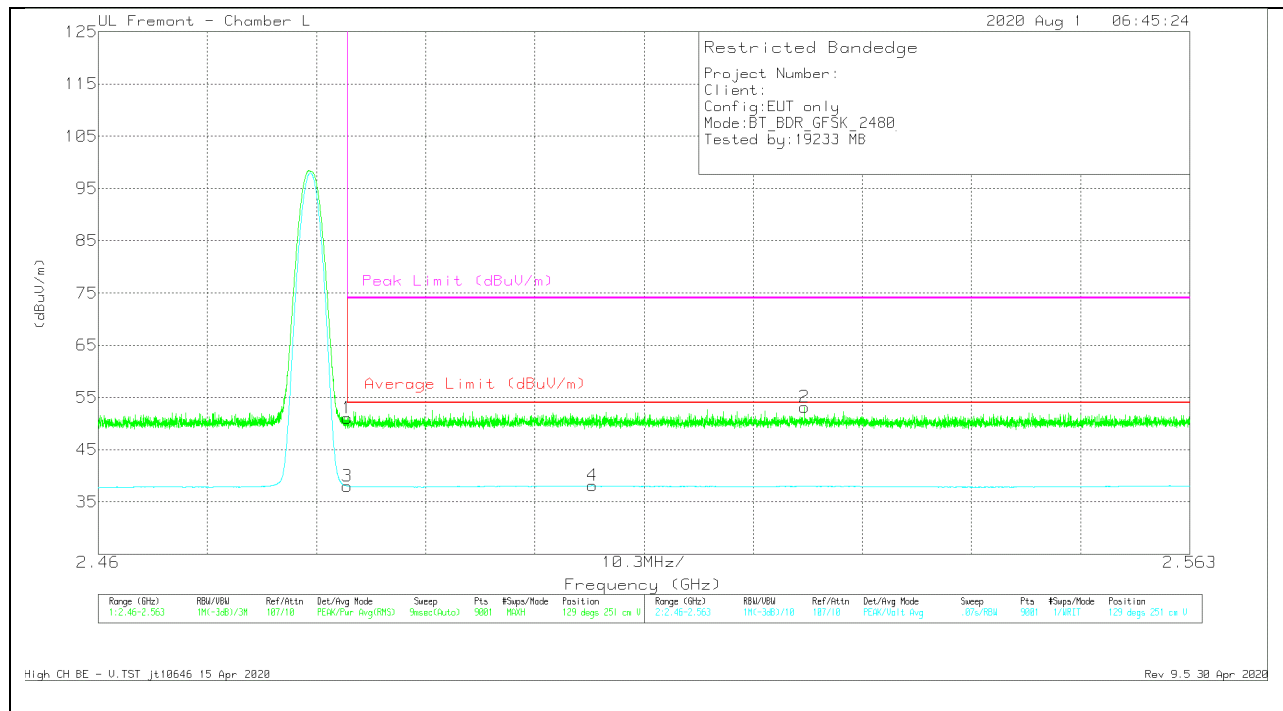
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.19	Pk	32.3	-20.9	50.59	-	-	74	-23.41	67	115	H
2	* 2.49997	41.42	Pk	32.4	-20.9	52.92	-	-	74	-21.08	67	115	H
3	* 2.48351	26.78	VA1T	32.3	-20.9	38.18	54	-15.82	-	-	67	115	H
4	2.50507	26.77	VA1T	32.4	-20.9	38.27	54	-15.73	-	-	67	115	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cb1/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.59	Pk	32.3	-20.9	50.99	-	-	74	-23.01	129	251	V
2	2.52665	41.55	Pk	32.4	-20.8	53.15	-	-	74	-20.85	129	251	V
3	* 2.48351	26.59	VA1T	32.3	-20.9	37.99	54	-16.01	-	-	129	251	V
4	2.50662	26.58	VA1T	32.4	-20.9	38.08	54	-15.92	-	-	129	251	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

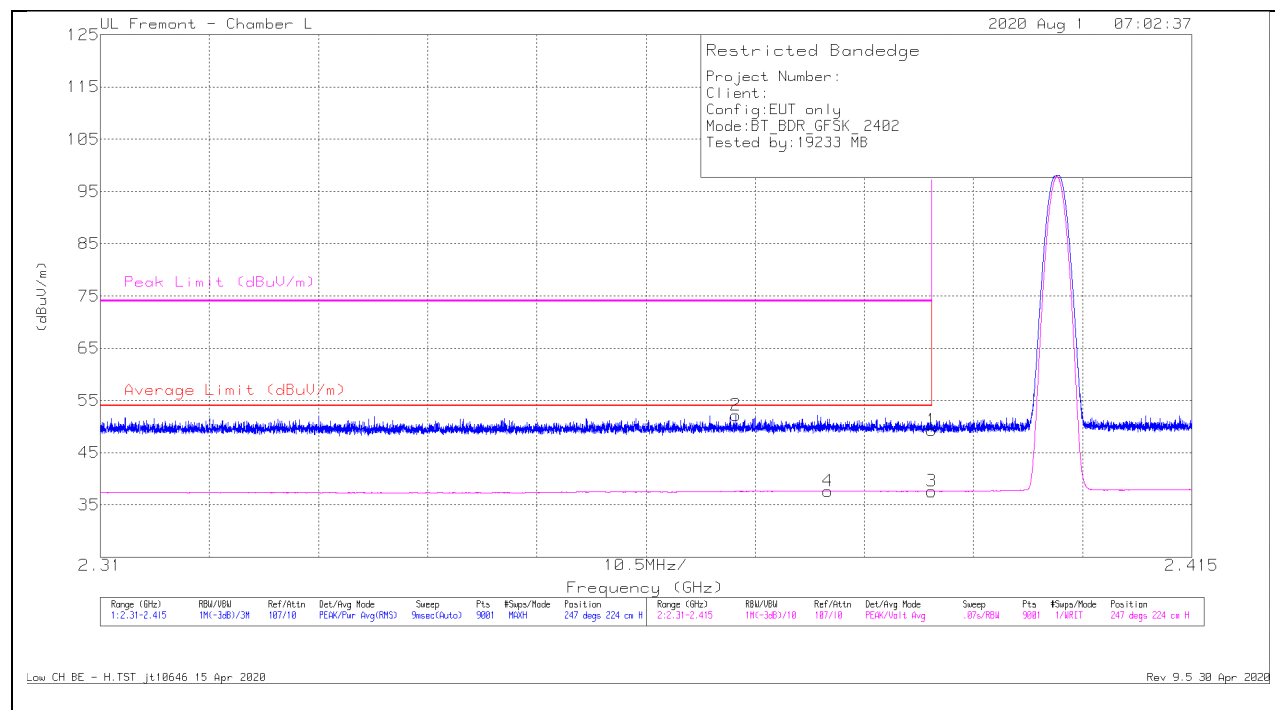
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

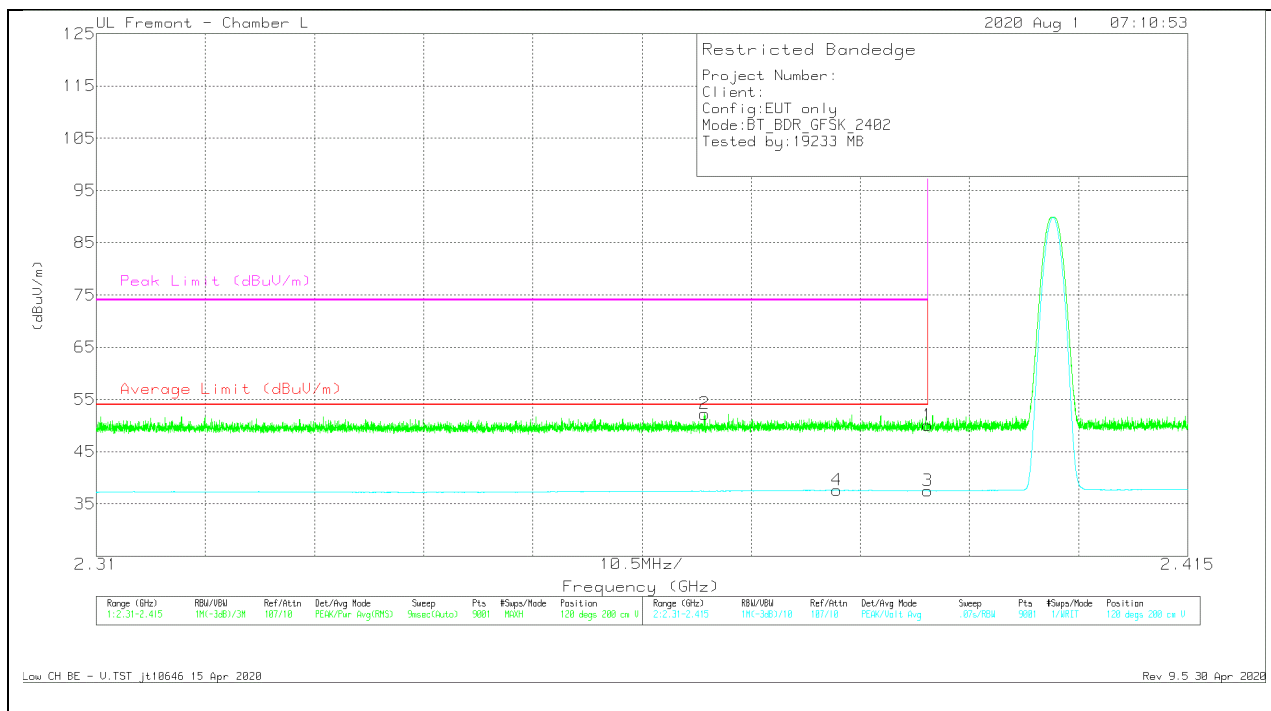
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.53	Pk	31.9	-21.1	49.33	-	-	74	-24.67	247	224	H
2	* 2.37116	41.55	Pk	31.8	-21.2	52.15	-	-	74	-21.85	247	224	H
3	* 2.38999	26.77	VA1T	31.9	-21.1	37.57	54	-16.43	-	-	247	224	H
4	* 2.38	26.98	VA1T	31.8	-21.1	37.68	54	-16.32	-	-	247	224	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cb1/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.22	Pk	31.9	-21.1	50.02	-	-	74	-23.98	120	200	V
2	* 2.36855	41.62	Pk	31.8	-21.2	52.22	-	-	74	-21.78	120	200	V
3	* 2.38999	26.68	VA1T	31.9	-21.1	37.48	54	-16.52	-	-	120	200	V
4	* 2.38126	26.92	VA1T	31.8	-21.1	37.62	54	-16.38	-	-	120	200	V

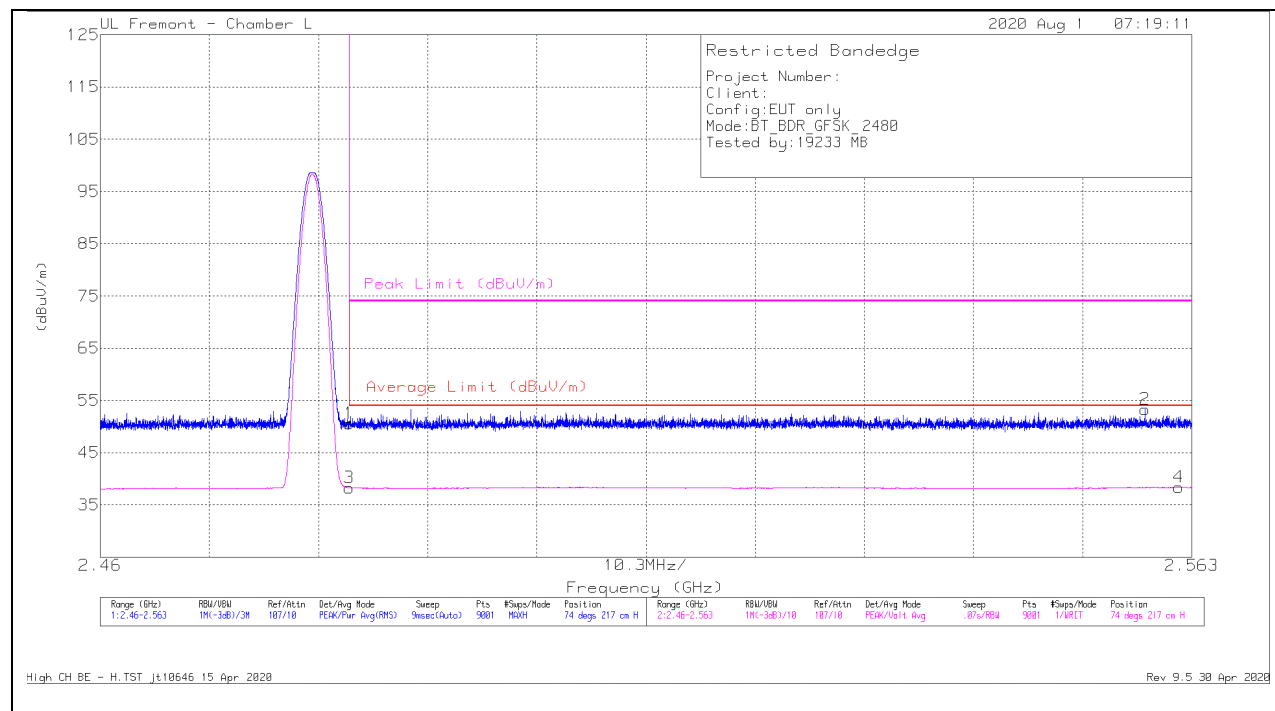
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



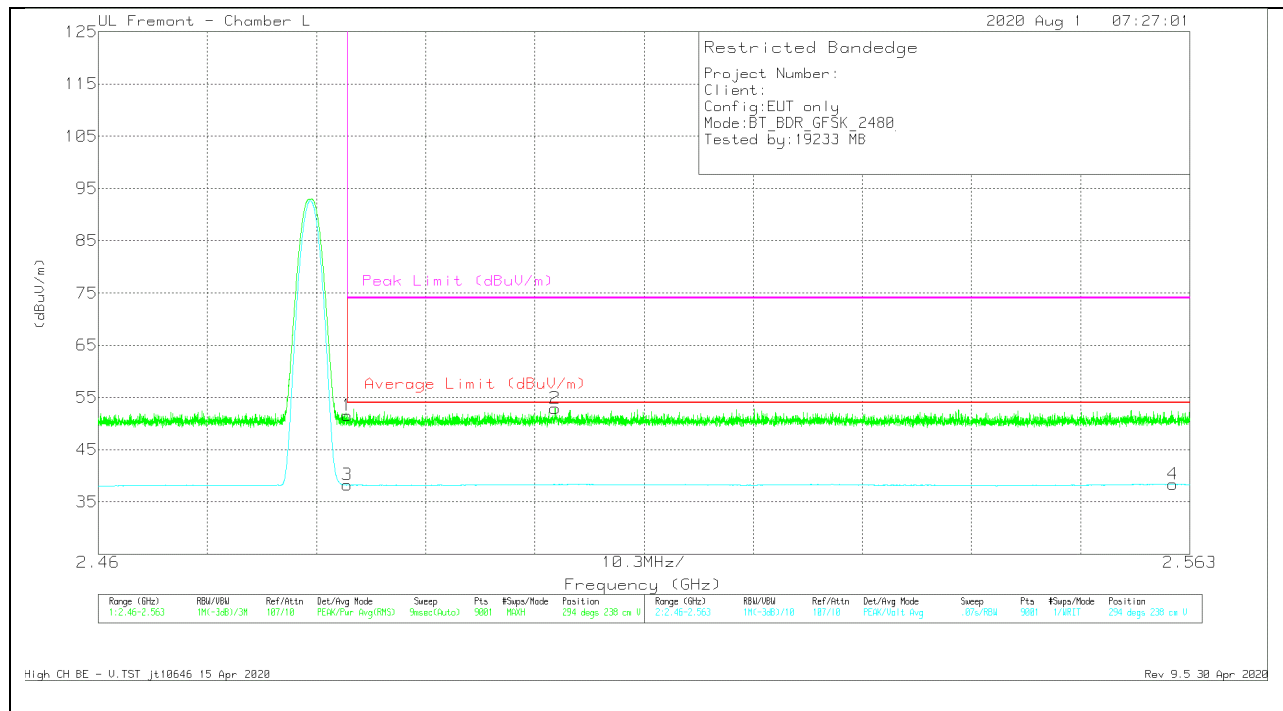
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.18	Pk	32.3	-20.9	50.58	-	-	74	-23.42	74	217	H
2	2.55858	41.7	Pk	32.4	-20.8	53.3	-	-	74	-20.7	74	217	H
3	* 2.48351	26.85	VA1T	32.3	-20.9	38.25	54	-15.75	-	-	74	217	H
4	2.56178	26.77	VA1T	32.4	-20.8	38.37	54	-15.63	-	-	74	217	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.13	Pk	32.3	-20.9	51.53	-	-	74	-22.47	294	238	V
2	2.50311	41.42	Pk	32.4	-20.9	52.92	-	-	74	-21.08	294	238	V
3	* 2.48351	26.81	VA1T	32.3	-20.9	38.21	54	-15.79	-	-	294	238	V
4	2.56139	26.79	VA1T	32.4	-20.8	38.39	54	-15.61	-	-	294	238	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

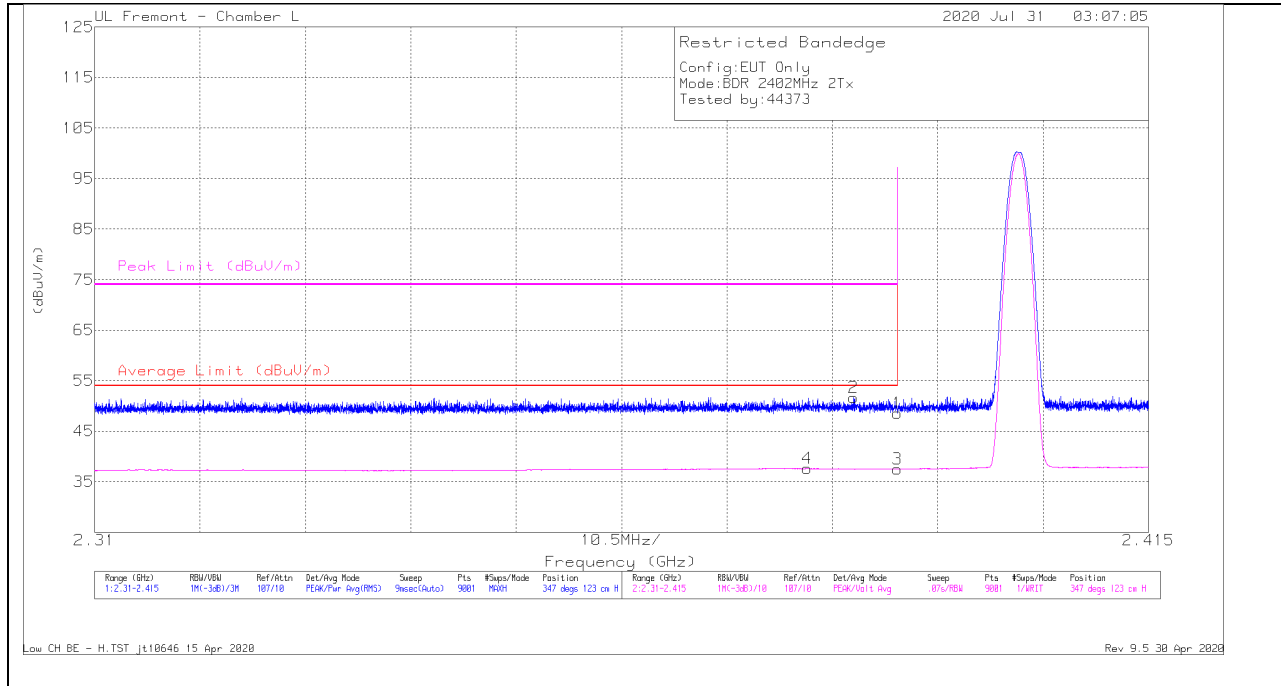
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.6. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



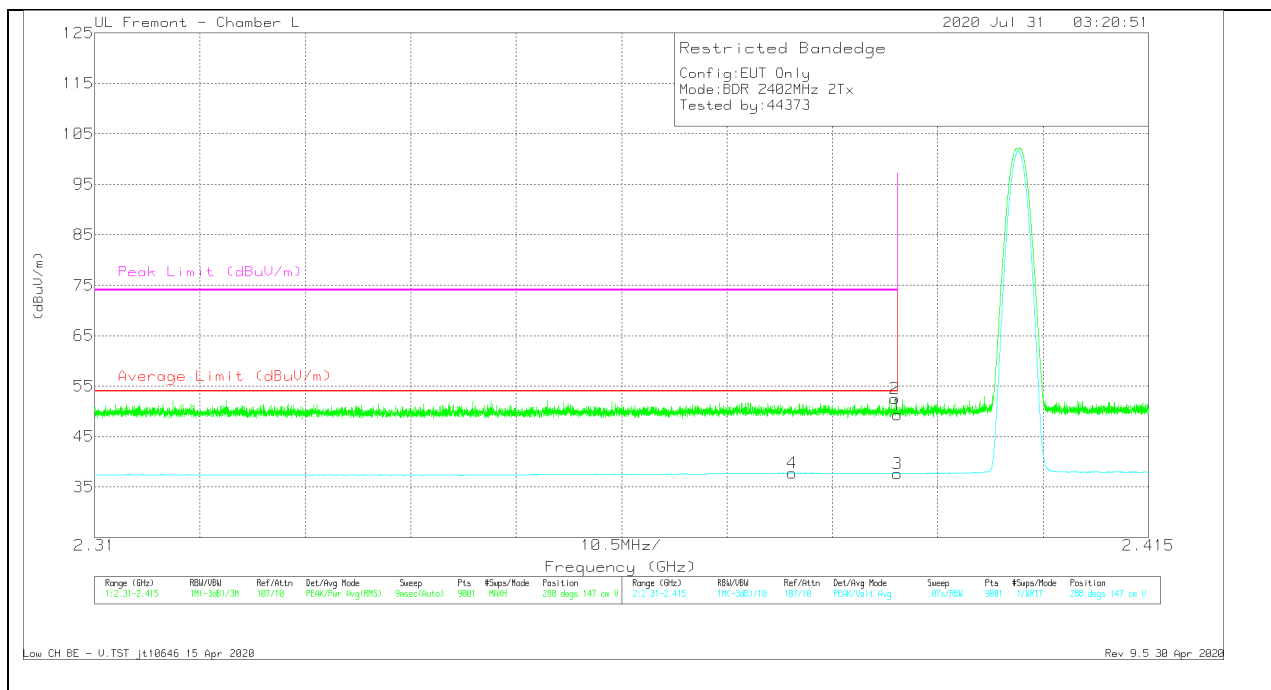
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/CbI/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	37.78	PK	31.9	-21.1	48.58	-	-	74	-25.42	347	123	H
2	* 2.3856	40.98	PK	31.8	-21.1	51.68	-	-	74	-22.32	347	123	H
3	* 2.38999	26.69	VA1T	31.9	-21.1	37.49	54	-16.51	-	-	347	123	H
4	* 2.38101	26.92	VA1T	31.8	-21.1	37.62	54	-16.38	-	-	347	123	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

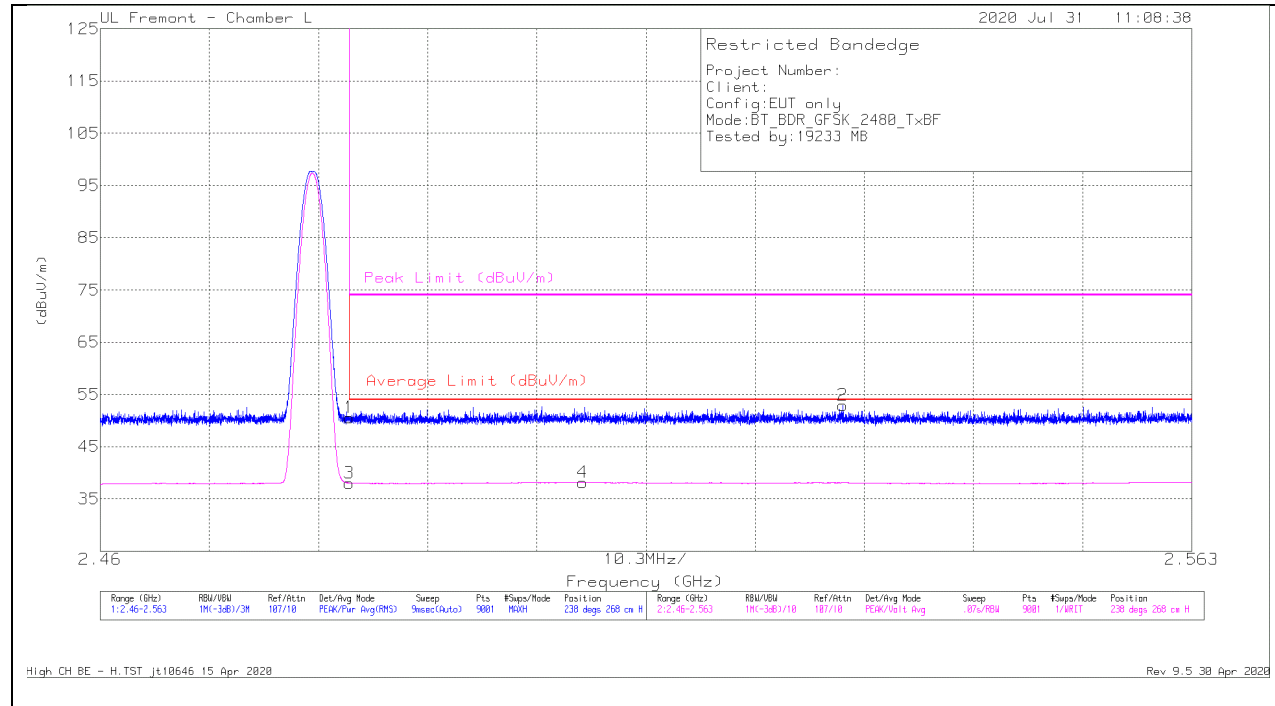


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.51	Pk	31.9	-21.1	49.31	-	-	74	-24.69	288	147	V
2	* 2.38973	41.71	Pk	31.9	-21.1	52.51	-	-	74	-21.49	288	147	V
3	* 2.38999	26.83	VA1T	31.9	-21.1	37.63	54	-16.37	-	-	288	147	V
4	* 2.37952	27.06	VA1T	31.8	-21.1	37.76	54	-16.24	-	-	288	147	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

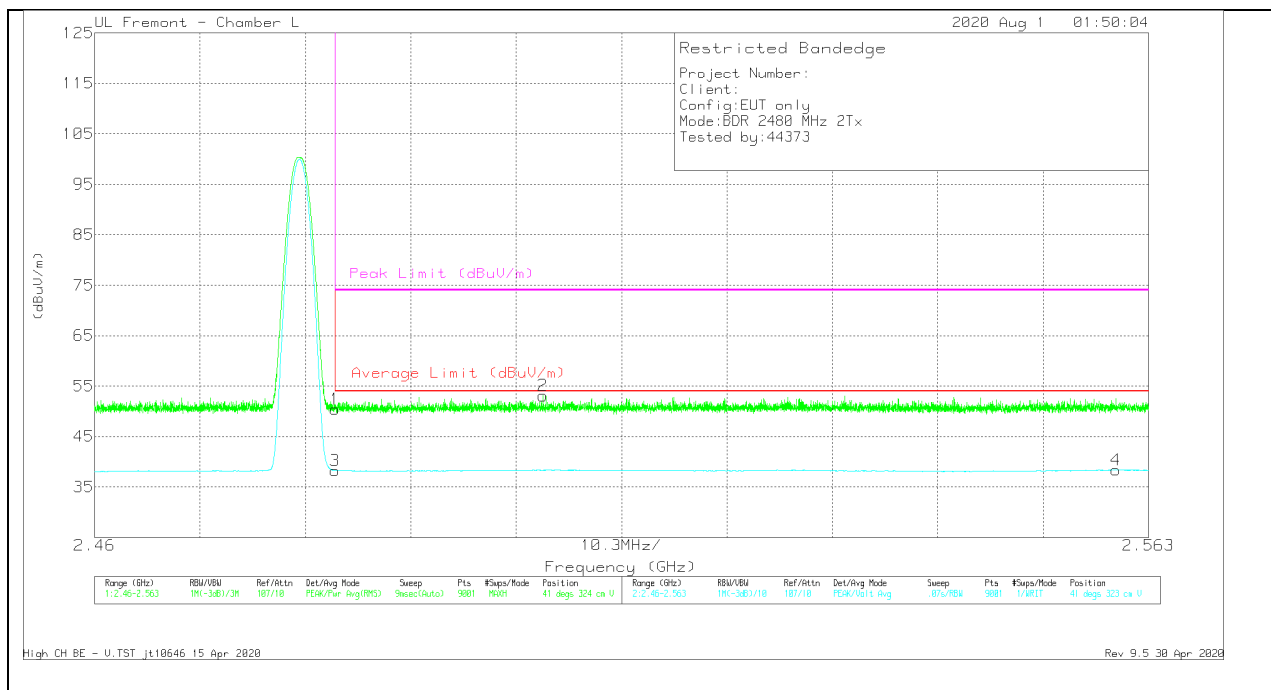
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.12	Pk	32.3	-20.9	50.52	-	-	74	-23.48	238	268	H
2	2.53009	41.26	Pk	32.4	-20.8	52.86	-	-	74	-21.14	238	268	H
3	* 2.48351	26.62	VA1T	32.3	-20.9	38.02	54	-15.98	-	-	238	268	H
4	2.50555	26.66	VA1T	32.4	-20.9	38.16	54	-15.84	-	-	238	268	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	38.99	Pk	32.3	-20.9	50.39	-	-	74	-23.61	41	324	V
2	2.50382	41.59	Pk	32.4	-20.9	53.09	-	-	74	-20.91	41	324	V
3	* 2.48351	26.84	VA1T	32.3	-20.9	38.24	54	-15.76	-	-	41	323	V
4	2.5598	26.78	VA1T	32.4	-20.8	38.38	54	-15.62	-	-	41	323	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

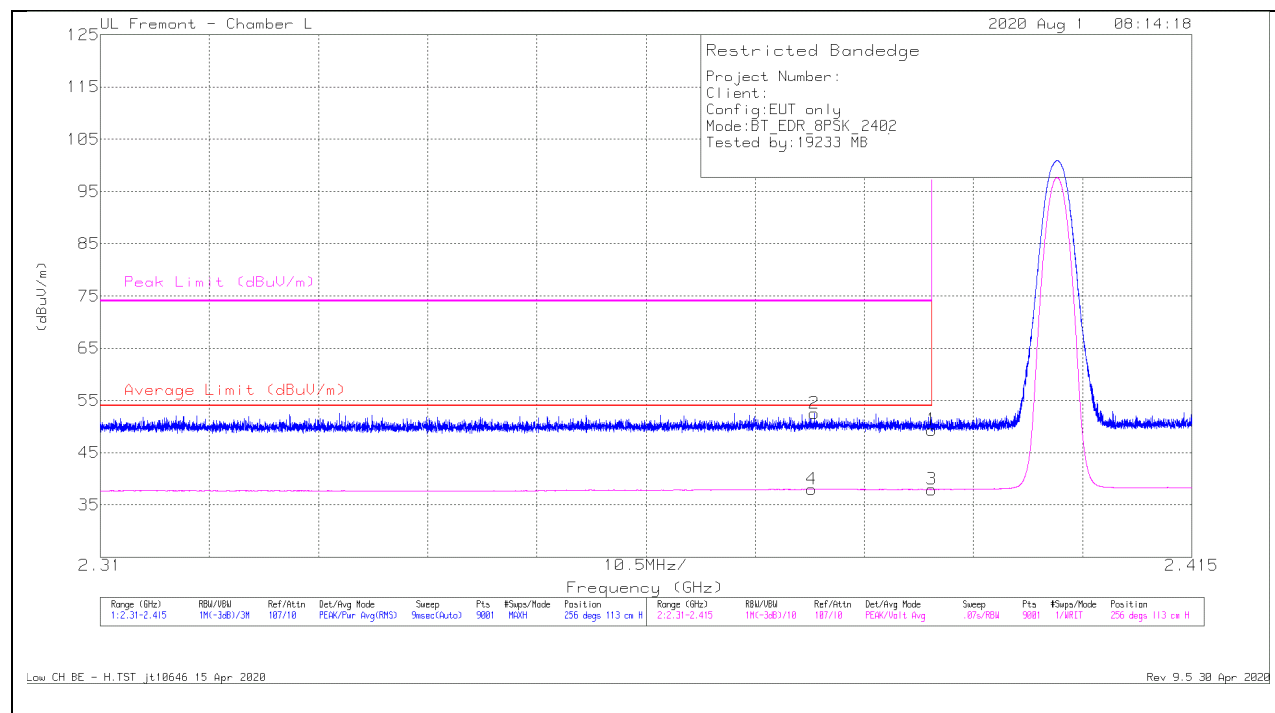
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



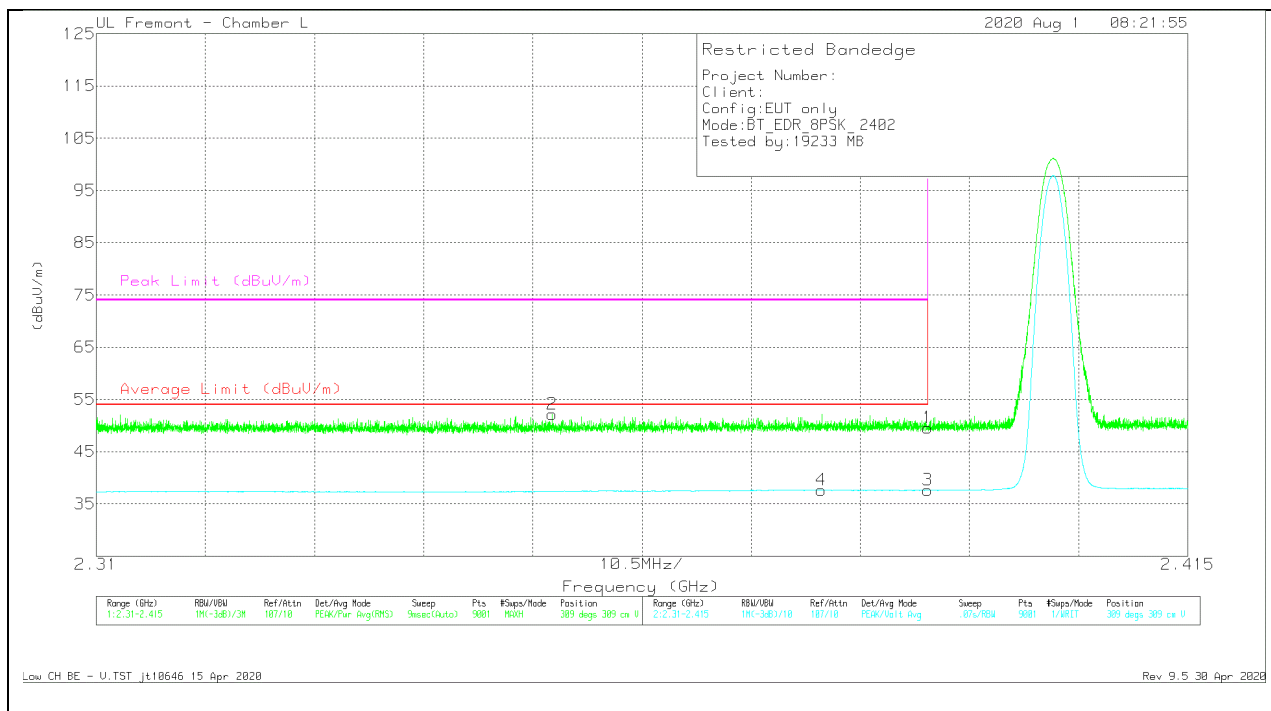
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.56	Pk	31.9	-21.1	49.36	-	-	74	-24.64	256	113	H
2	* 2.37867	41.83	Pk	31.8	-21.1	52.53	-	-	74	-21.47	256	113	H
3	* 2.38999	27.14	VA1T	31.9	-21.1	37.94	54	-16.06	-	-	256	113	H
4	* 2.37843	27.35	VA1T	31.8	-21.1	38.05	54	-15.95	-	-	256	113	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/CbI/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.74	Pk	31.9	-21.1	49.54	-	-	74	-24.46	309	309	V
2	* 2.35384	41.75	Pk	31.6	-21.2	52.15	-	-	74	-21.85	309	309	V
3	* 2.38999	26.8	VA1T	31.9	-21.1	37.6	54	-16.4	-	-	309	309	V
4	* 2.37973	26.98	VA1T	31.8	-21.1	37.68	54	-16.32	-	-	309	309	V

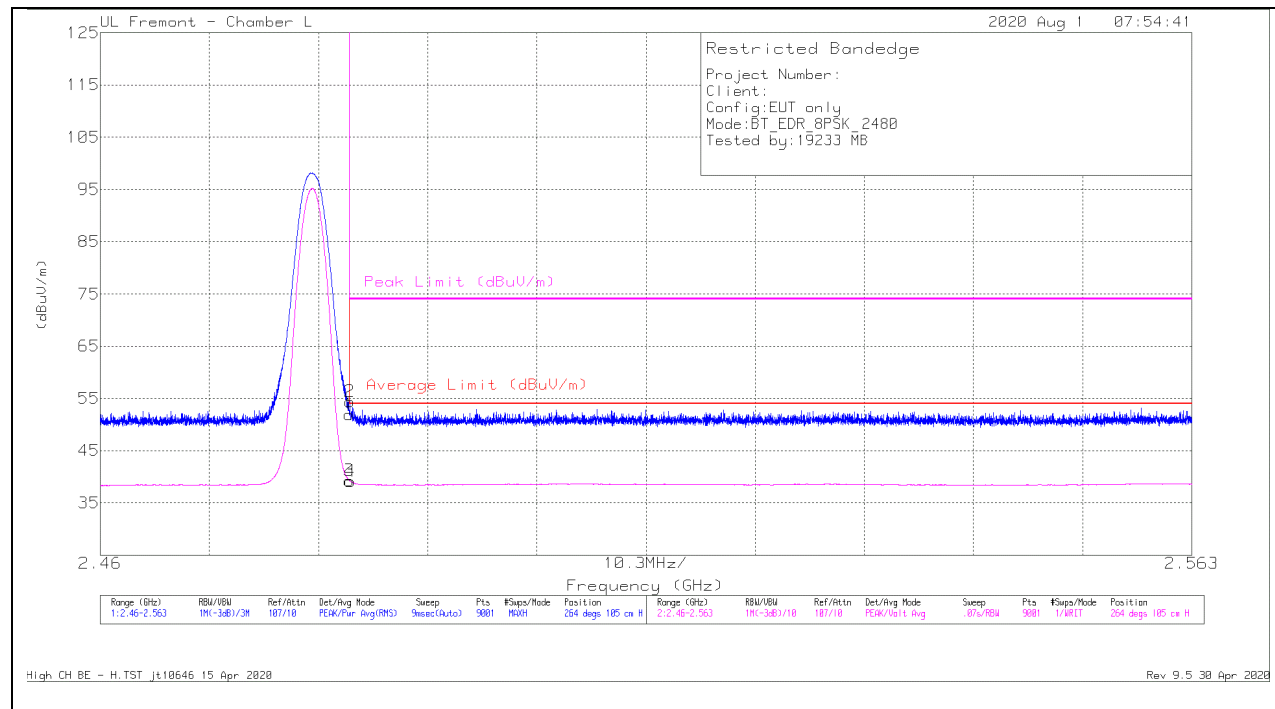
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



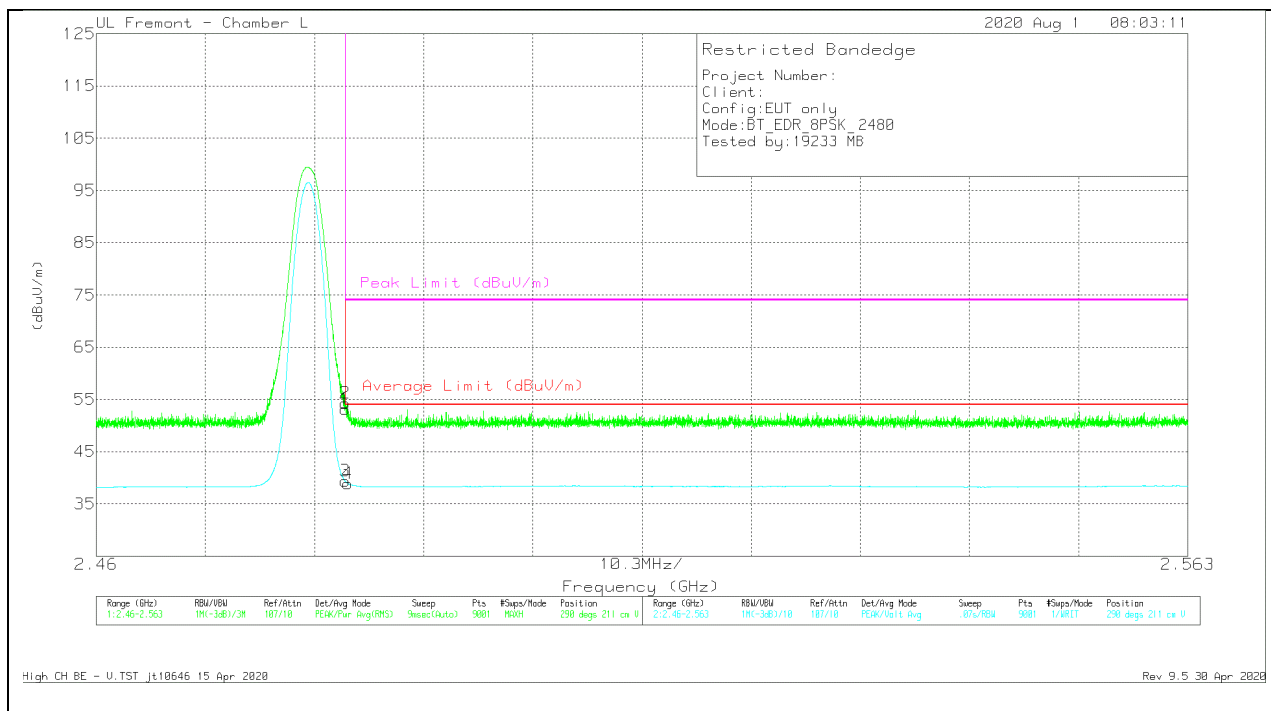
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/CbI/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.5	Pk	32.3	-20.9	51.9	-	-	74	-22.1	264	105	H
2	* 2.48354	43.03	Pk	32.3	-20.9	54.43	-	-	74	-19.57	264	105	H
3	* 2.48351	27.88	VA1T	32.3	-20.9	39.28	54	-14.72	-	-	264	105	H
4	* 2.48359	27.75	VA1T	32.3	-20.9	39.15	54	-14.85	-	-	264	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.8	Pk	32.3	-20.9	53.2	-	-	74	-20.8	290	211	V
2	* 2.48352	42.92	Pk	32.3	-20.9	54.32	-	-	74	-19.68	290	211	V
3	* 2.48351	27.91	VA1T	32.3	-20.9	39.31	54	-14.69	-	-	290	211	V
4	* 2.48372	27.51	VA1T	32.3	-20.9	38.91	54	-15.09	-	-	290	211	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

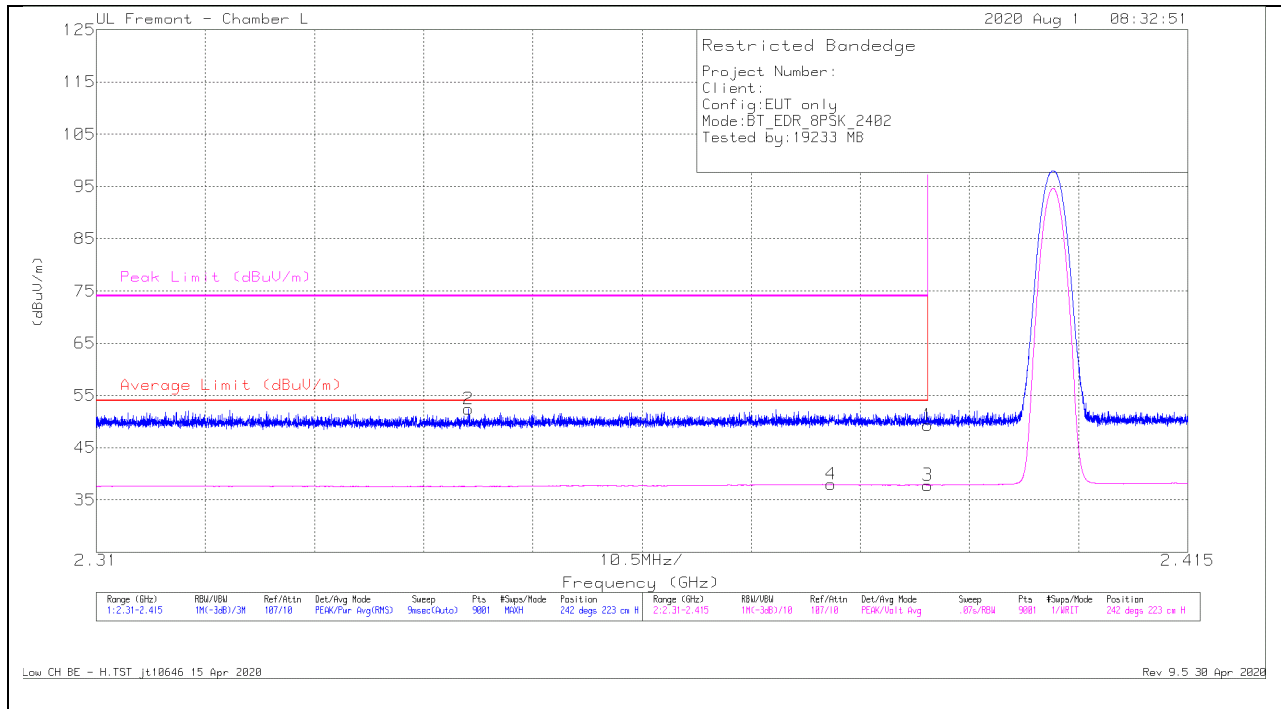
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



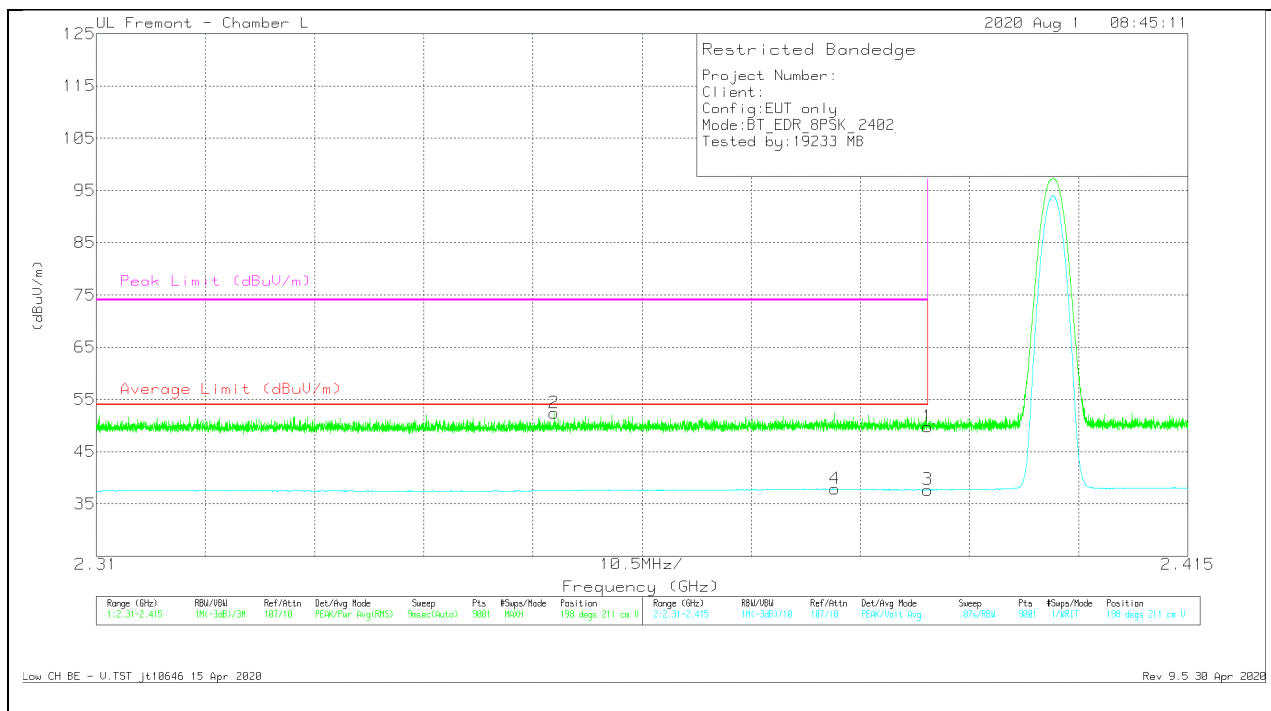
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	38.45	Pk	31.9	-21.1	49.25	-	-	74	-24.75	242	223	H
2	* 2.34583	41.95	Pk	31.6	-21.2	52.35	-	-	74	-21.65	242	223	H
3	* 2.38999	27.01	VA1T	31.9	-21.1	37.81	54	-16.19	-	-	242	223	H
4	* 2.3807	27.25	VA1T	31.8	-21.1	37.95	54	-16.05	-	-	242	223	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.01	Pk	31.9	-21.1	49.81	-	-	74	-24.19	198	211	V
2	* 2.35407	42.01	Pk	31.6	-21.2	52.41	-	-	74	-21.59	198	211	V
3	* 2.38999	26.89	VA1T	31.9	-21.1	37.69	54	-16.31	-	-	198	211	V
4	* 2.38104	27.14	VA1T	31.8	-21.1	37.84	54	-16.16	-	-	198	211	V

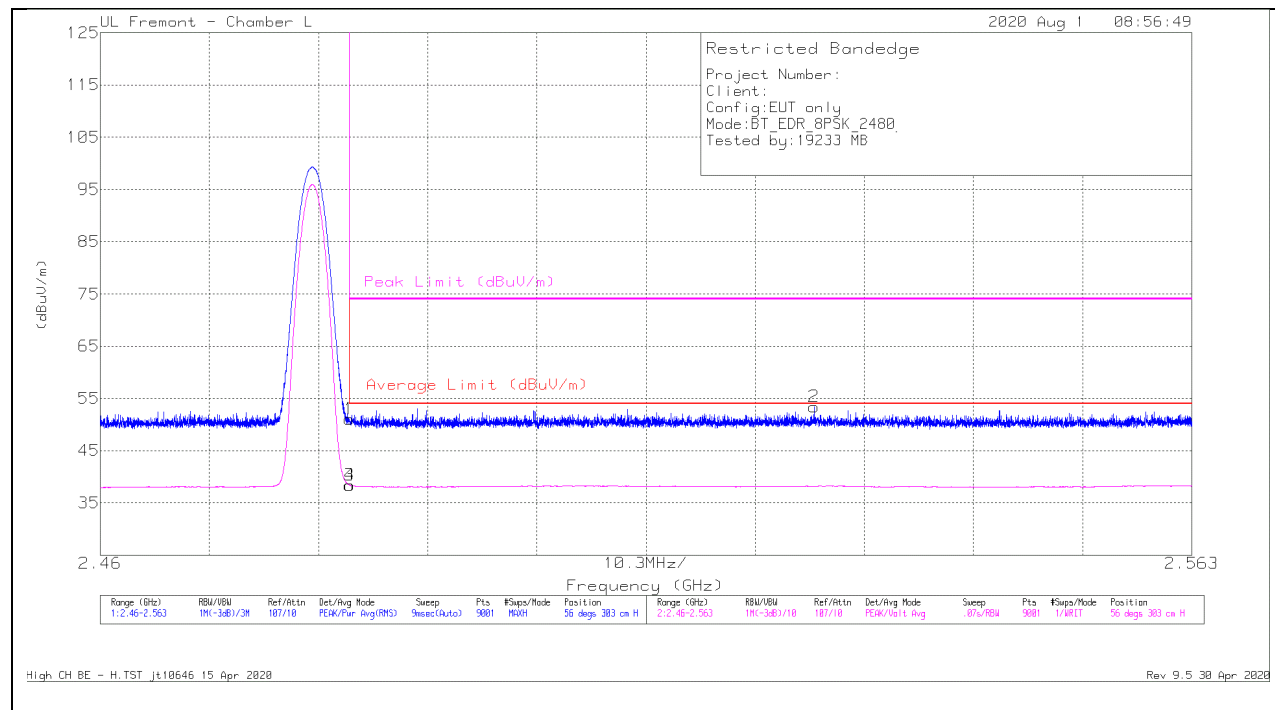
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



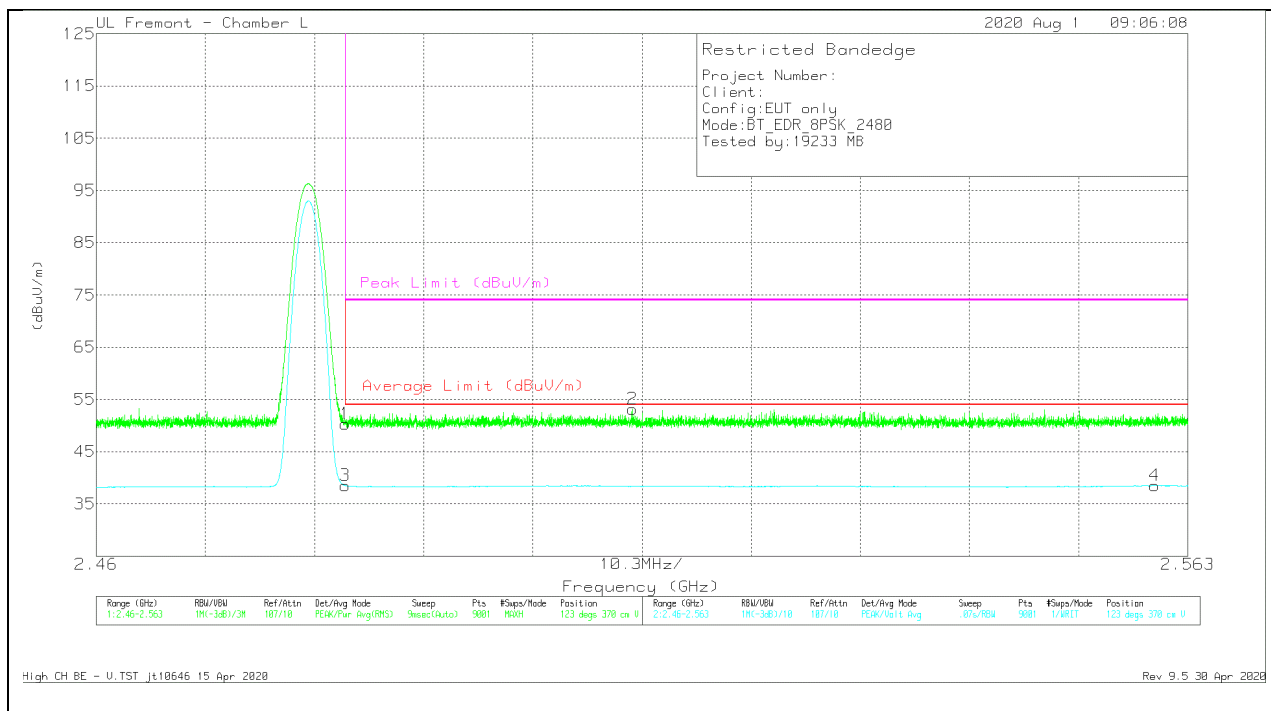
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.6	Pk	32.3	-20.9	51	-	-	74	-23	56	303	H
2	2.52735	41.77	Pk	32.4	-20.8	53.37	-	-	74	-20.63	56	303	H
3	* 2.48351	27	VA1T	32.3	-20.9	38.4	54	-15.6	-	-	56	303	H
4	* 2.48354	26.98	VA1T	32.3	-20.9	38.38	54	-15.62	-	-	56	303	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbll/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	38.93	Pk	32.3	-20.9	50.33	-	-	74	-23.67	123	370	V
2	2.51063	41.7	Pk	32.4	-20.9	53.2	-	-	74	-20.8	123	370	V
3	* 2.48351	27.06	VA1T	32.3	-20.9	38.46	54	-15.54	-	-	123	370	V
4	2.55988	26.9	VA1T	32.4	-20.8	38.5	54	-15.5	-	-	123	370	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

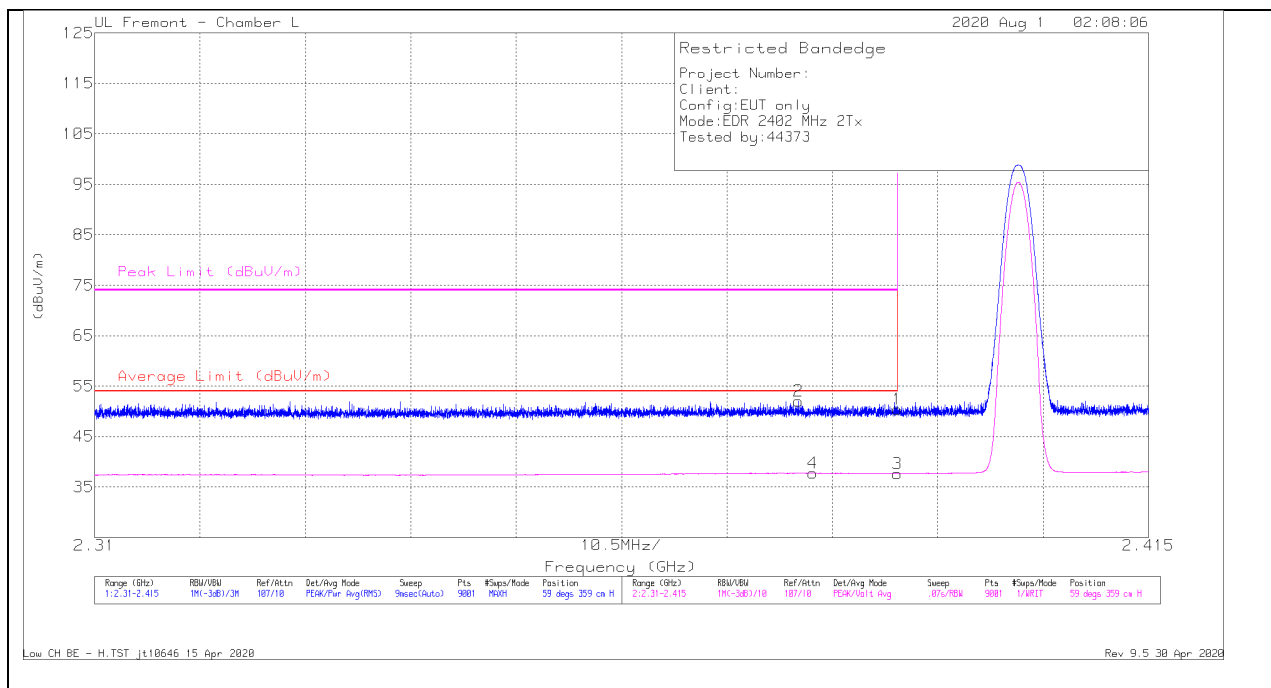
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.8. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



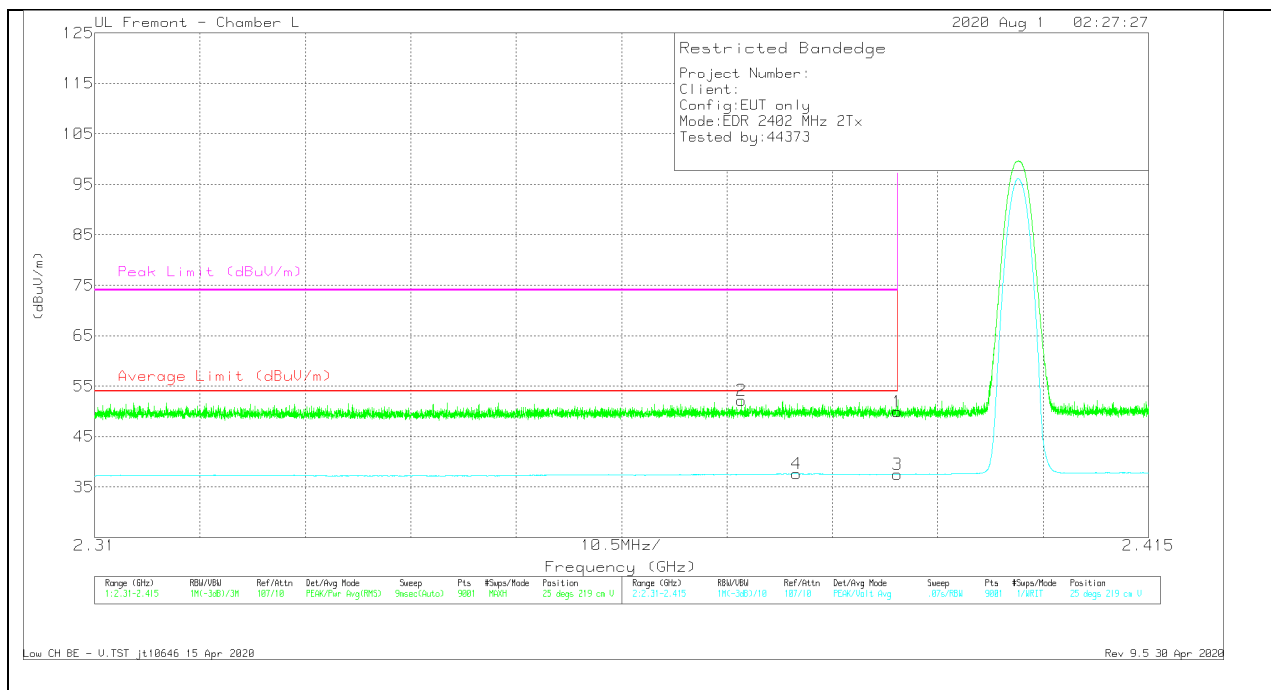
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cb1Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	39.62	Pk	31.9	-21.1	50.42	-	-	74	-23.58	59	359	H
2	* 2.38014	41.32	Pk	31.8	-21.1	52.02	-	-	74	-21.98	59	359	H
3	* 2.38999	26.84	VA1T	31.9	-21.1	37.64	54	-16.36	-	-	59	359	H
4	* 2.38157	27.06	VA1T	31.8	-21.1	37.76	54	-16.24	-	-	59	359	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



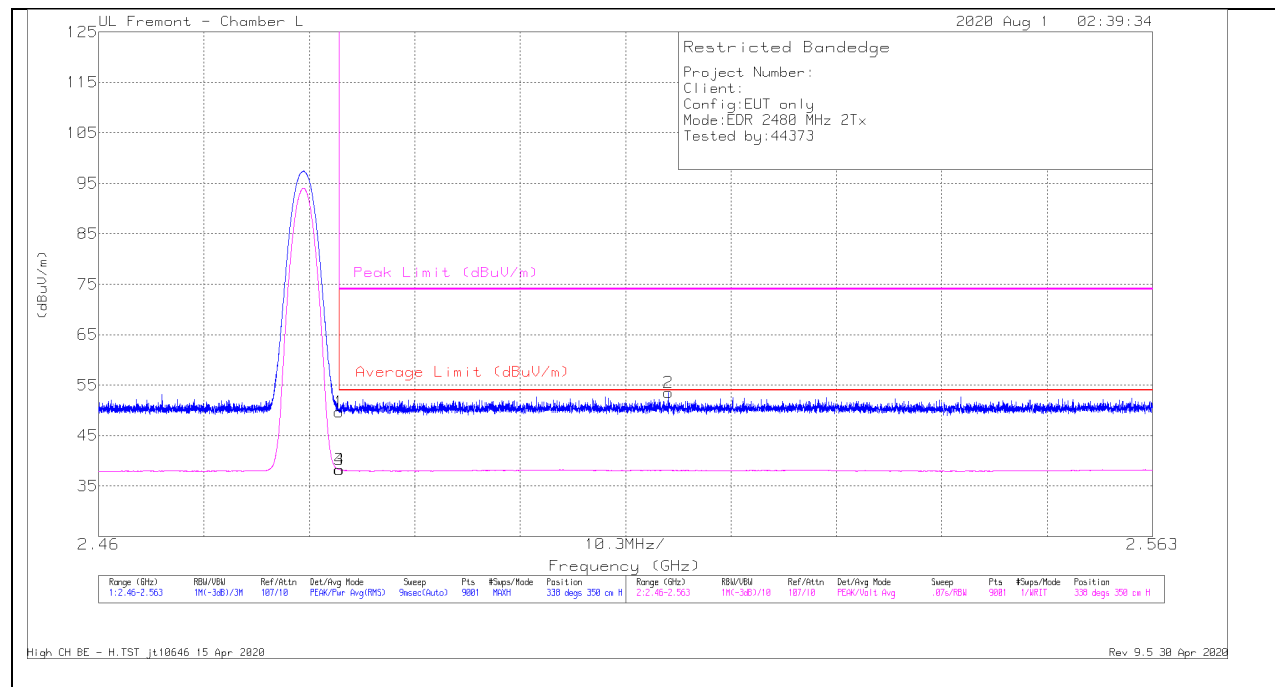
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



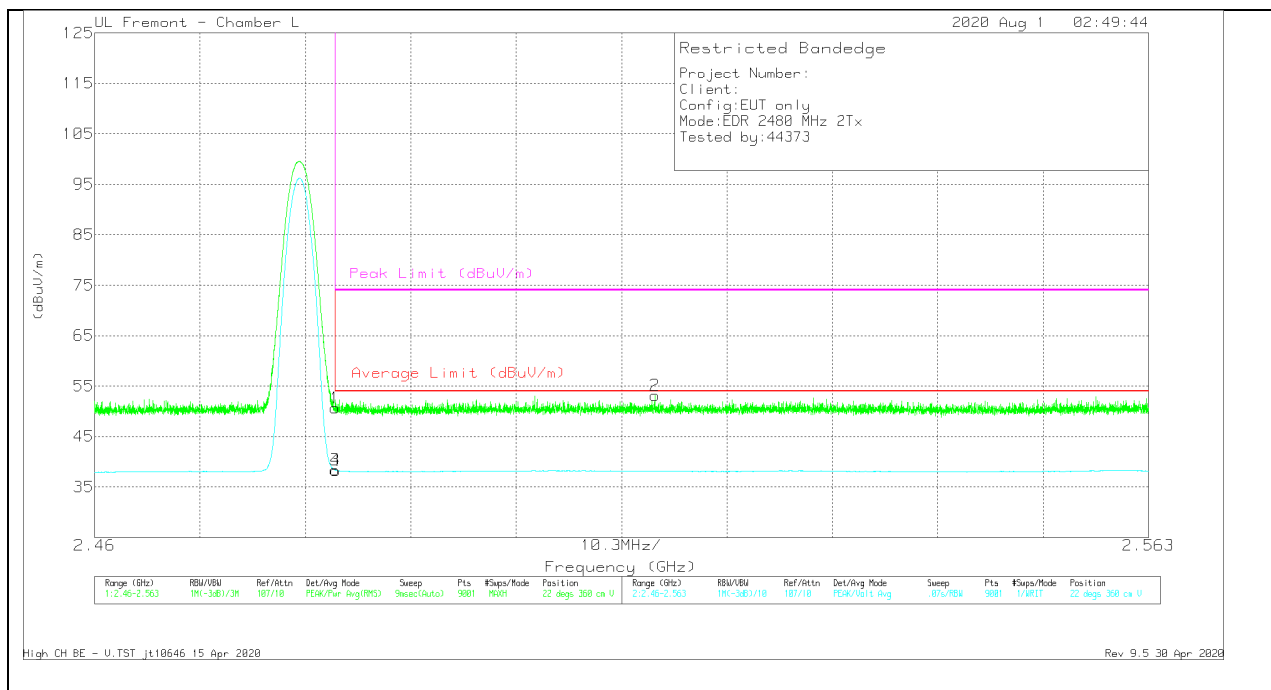
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	38.31	Pk	32.3	-20.9	49.71	-	-	74	-24.29	338	350	H
2	2.51566	42.01	Pk	32.4	-20.9	53.51	-	-	74	-20.49	338	350	H
3	* 2.48351	26.83	VA1T	32.3	-20.9	38.23	54	-15.77	-	-	338	350	H
4	* 2.48353	26.82	VA1T	32.3	-20.9	38.22	54	-15.78	-	-	338	350	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	39.22	Pk	32.3	-20.9	50.62	-	-	74	-23.38	22	360	V
2	2.51475	41.66	Pk	32.4	-20.9	53.16	-	-	74	-20.84	22	360	V
3	* 2.48351	26.97	VA1T	32.3	-20.9	38.37	54	-15.63	-	-	22	360	V
4	* 2.48357	26.91	VA1T	32.3	-20.9	38.31	54	-15.69	-	-	22	360	V

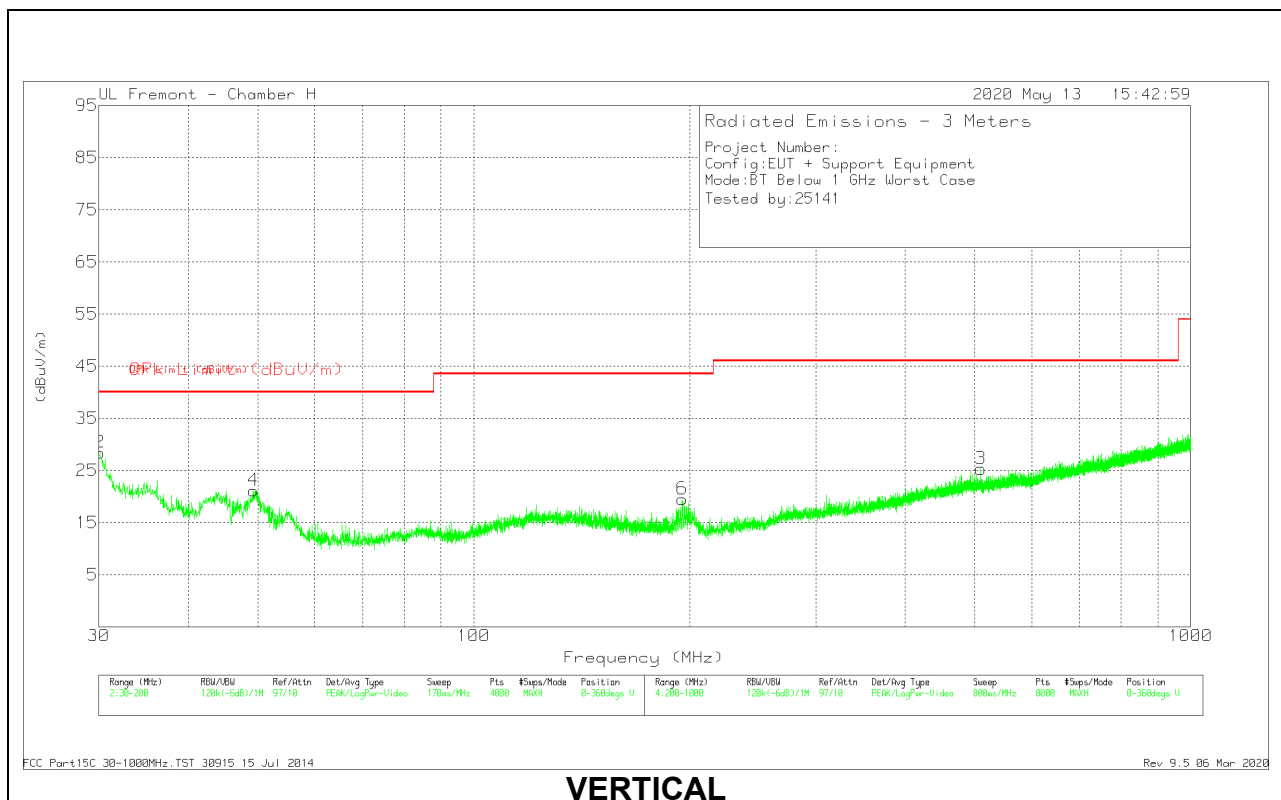
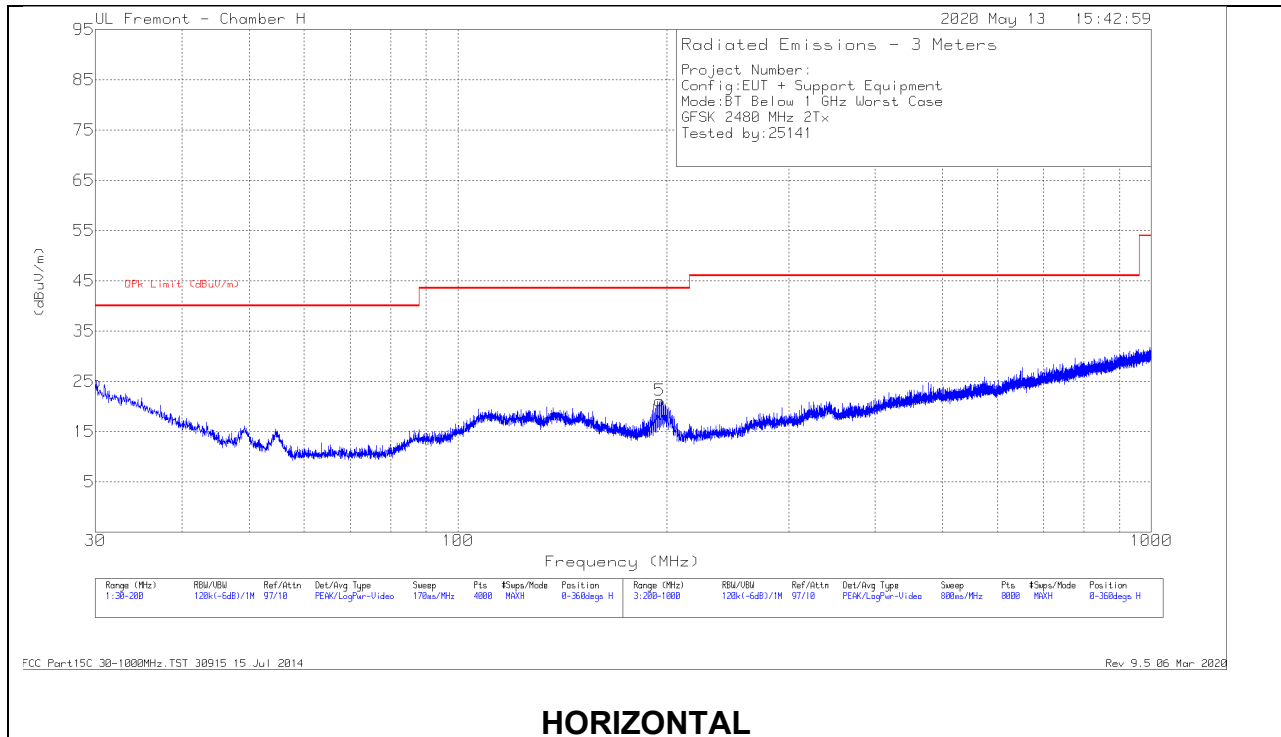
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.2. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



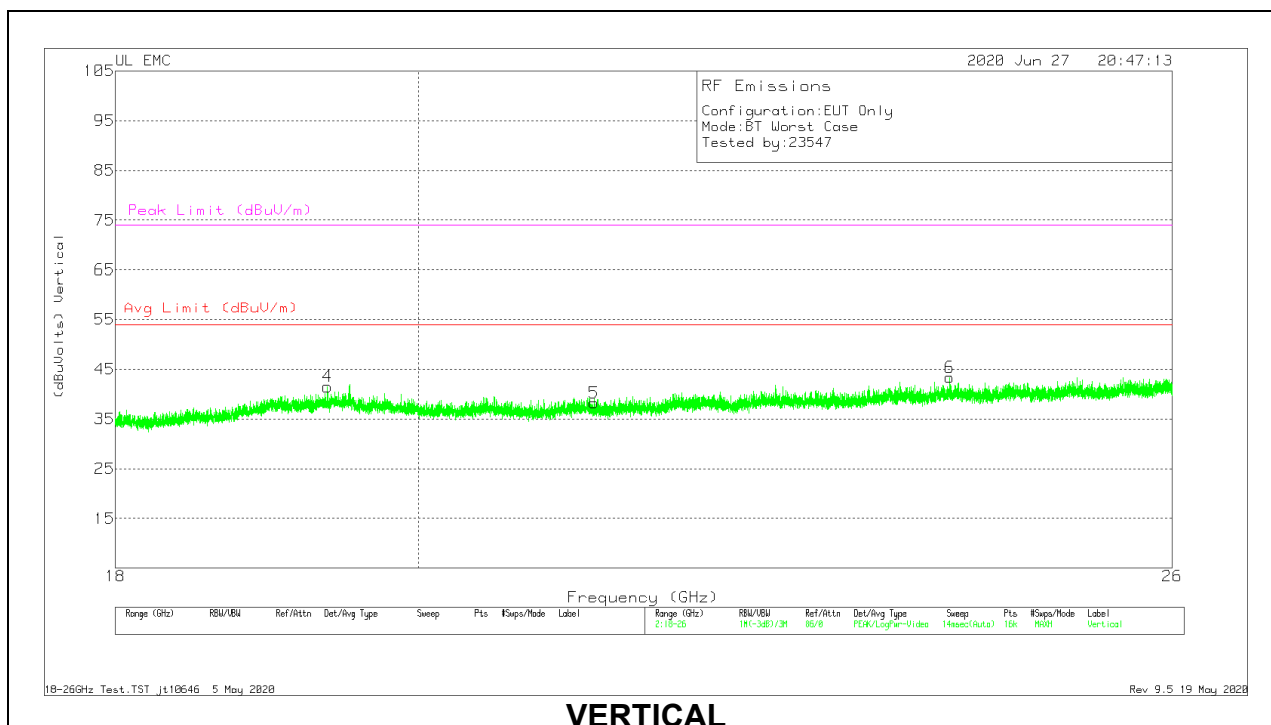
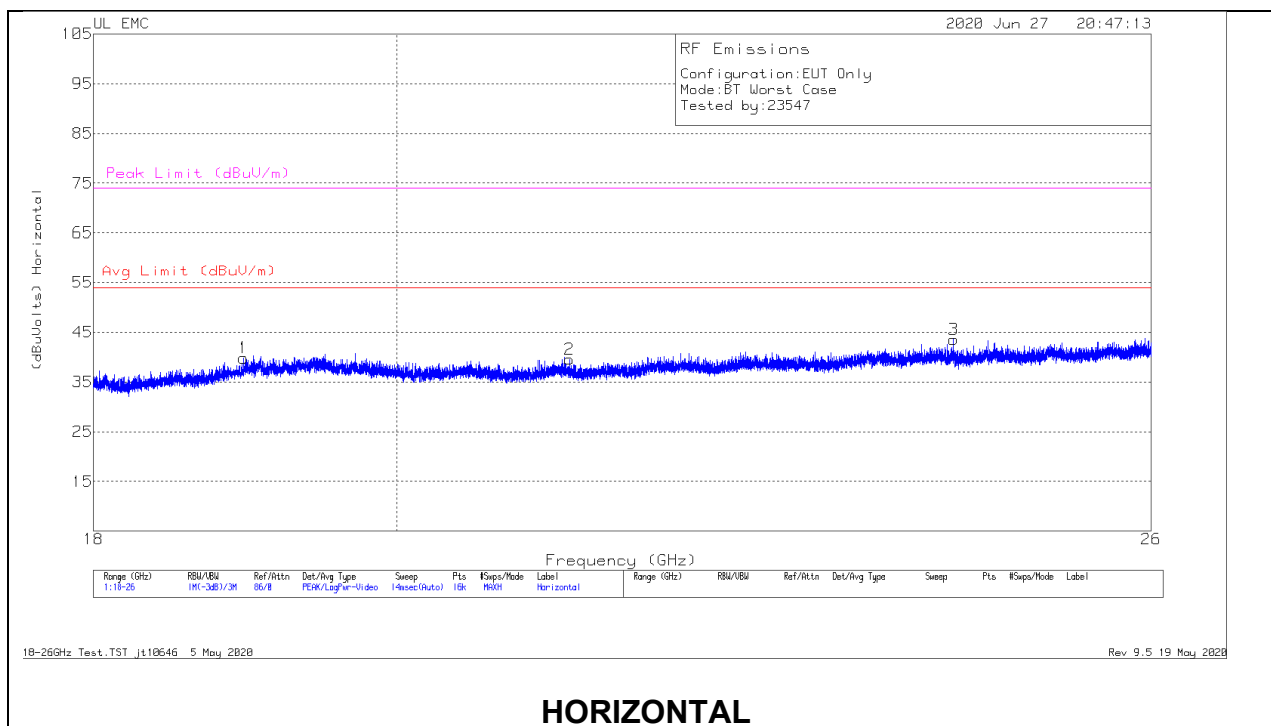
Below 1GHz Data

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.0283	23.48	Qp	27	-31.3	19.18	40	-20.82	15	246	H
195.5773	32.42	Qp	17.4	-29.6	20.22	43.52	-23.3	68	182	H
30.0239	30.32	Qp	27	-31.3	26.02	40	-13.98	190	101	V
49.1738	34.27	Qp	13.8	-31	17.07	40	-22.93	132	106	V
195.5708	27.63	Qp	17.4	-29.6	15.43	43.52	-28.09	270	138	V
509.9813	22.46	Qp	23.5	-28	17.96	46.02	-28.06	273	327	V

Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T125 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.96344	36.63	Pk	32.6	-19.9	-9.5	39.83	54	-14.17	74	-34.17
2	21.2383	37.14	Pk	33	-21.1	-9.5	39.54	54	-14.46	74	-34.46
3	24.27211	38.57	Pk	33.8	-19.3	-9.5	43.57	54	-10.43	74	-30.43
4	19.37841	37.3	Pk	32.6	-18.9	-9.5	41.5	54	-12.5	74	-32.5
5	21.2603	35.86	Pk	32.9	-21	-9.5	38.26	54	-15.74	74	-35.74
6	24.06162	38.35	Pk	33.8	-19.3	-9.5	43.35	54	-10.65	74	-30.65

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

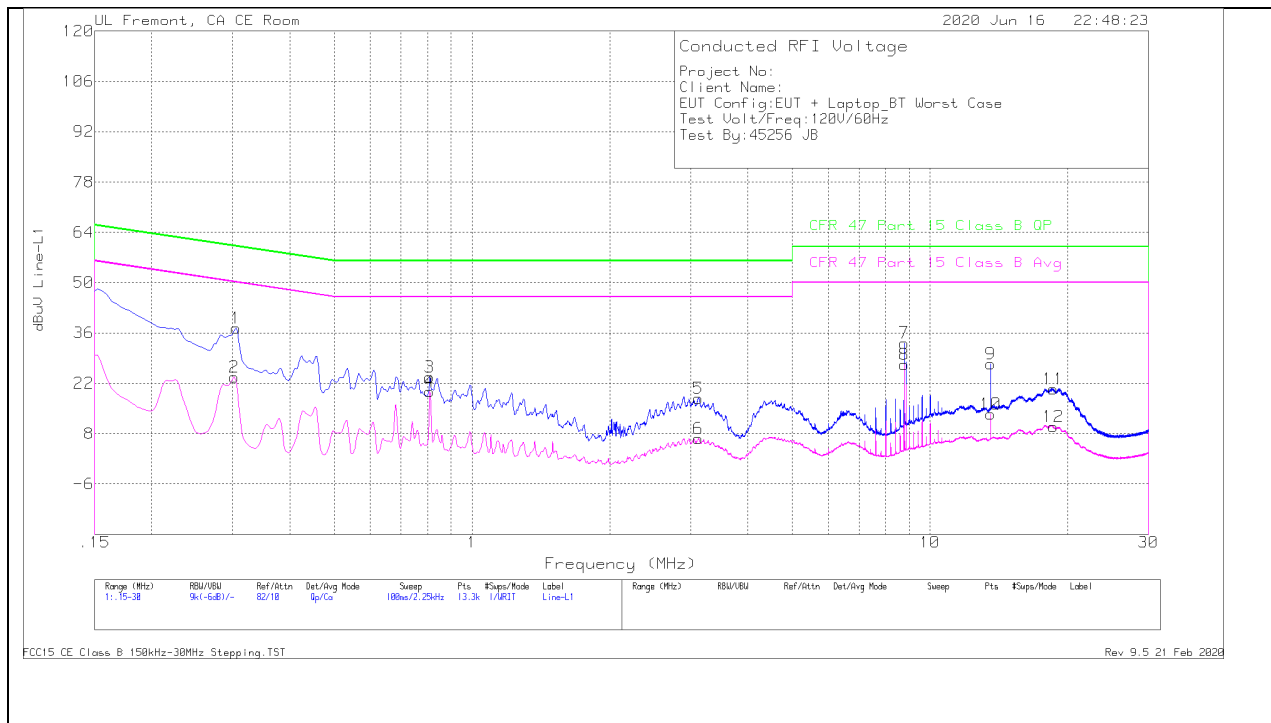
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1. AC Power Line Host

LINE 1 RESULTS

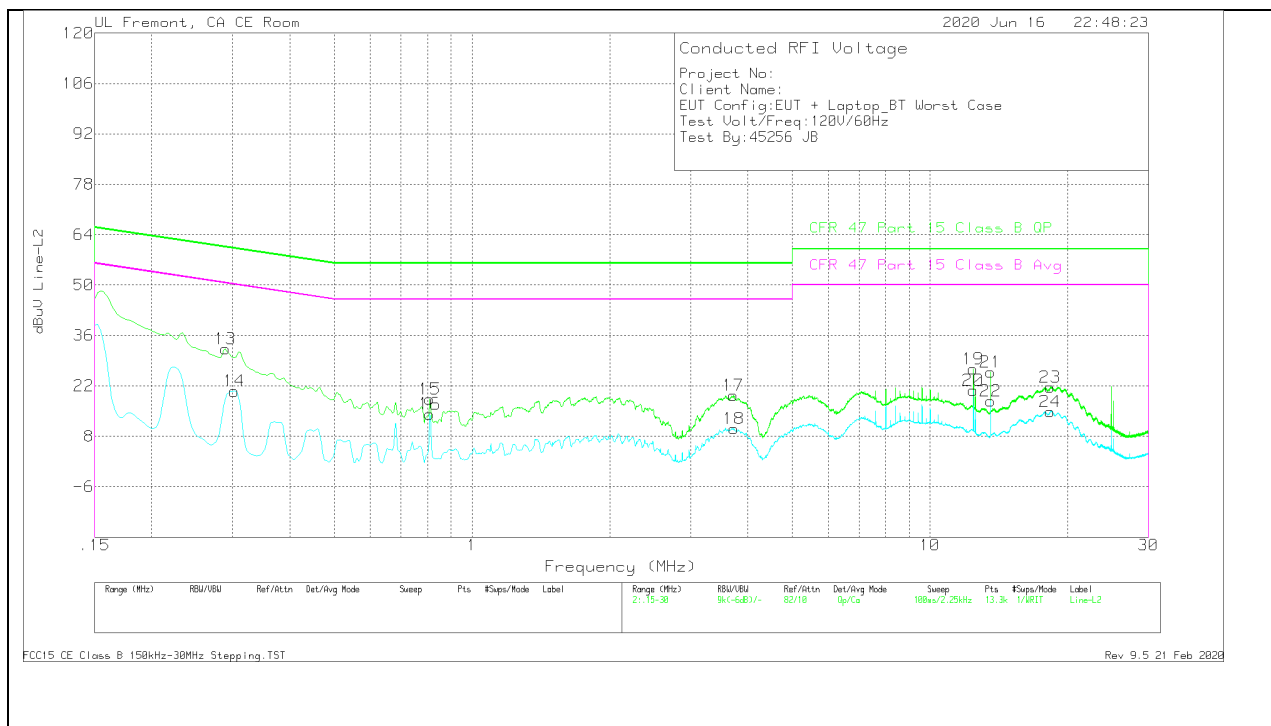


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.30525	27.41	Qp	0	0	10	37.41	60.1	-22.69	-	-
2	.303	13.75	Ca	0	0	10	23.75	-	-	50.16	-26.41
3	.80925	13.77	Qp	0	0	10	23.77	56	-32.23	-	-
4	.80925	9.69	Ca	0	0	10	19.69	-	-	46	-26.31
5	3.12225	7.64	Qp	0	.1	10	17.74	56	-38.26	-	-
6	3.12225	-3.47	Ca	0	.1	10	6.63	-	-	46	-39.37
7	8.781	22.94	Qp	0	.2	10.1	33.24	60	-26.76	-	-
8	8.781	16.97	Ca	0	.2	10.1	27.27	-	-	50	-22.73
9	13.56	17.04	Qp	.1	.2	10.1	27.44	60	-32.56	-	-
10	13.56	3.05	Ca	.1	.2	10.1	13.45	-	-	50	-36.55
11	18.57525	9.93	Qp	0	.3	10.2	20.43	60	-39.57	-	-
12	18.58313	-.57	Ca	0	.3	10.2	9.93	-	-	50	-40.07

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



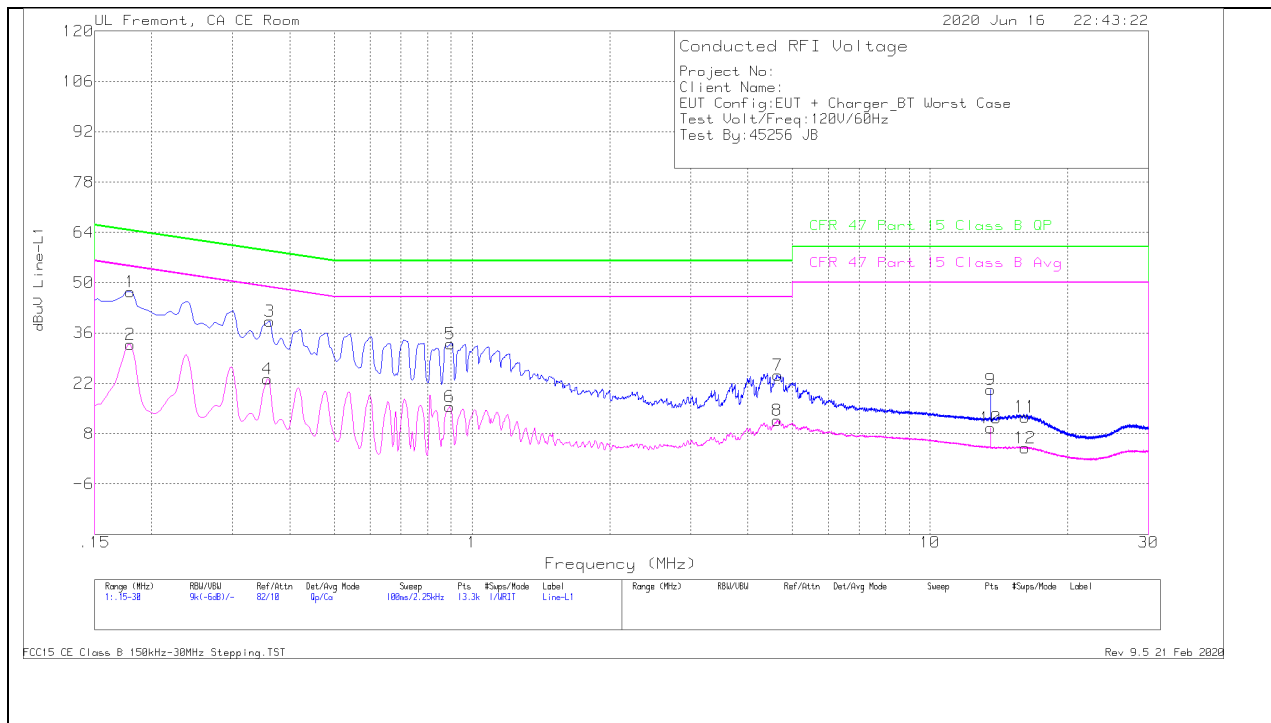
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.2895	22.26	Qp	0	0	10	32.26	60.54	-28.28	-	-
14	.303	10.51	Ca	0	0	10	20.51	-	-	50.16	-29.65
15	.80925	8.4	Qp	0	0	10	18.4	56	-37.6	-	-
16	.80925	4.22	Ca	0	0	10	14.22	-	-	46	-31.78
17	3.72525	9.24	Qp	0	.1	10	19.34	56	-36.66	-	-
18	3.7275	.09	Ca	0	.1	10	10.19	-	-	46	-35.81
19	12.4395	16.32	Qp	.1	.2	10.1	26.72	60	-33.28	-	-
20	12.4395	10.4	Ca	.1	.2	10.1	20.8	-	-	50	-29.2
21	13.56	15.37	Qp	.1	.2	10.1	25.77	60	-34.23	-	-
22	13.56	7.42	Ca	.1	.2	10.1	17.82	-	-	50	-32.18
23	18.303	11.2	Qp	0	.3	10.2	21.7	60	-38.3	-	-
24	18.2985	4.34	Ca	0	.3	10.2	14.84	-	-	50	-35.16

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line Norm

LINE 1 RESULTS

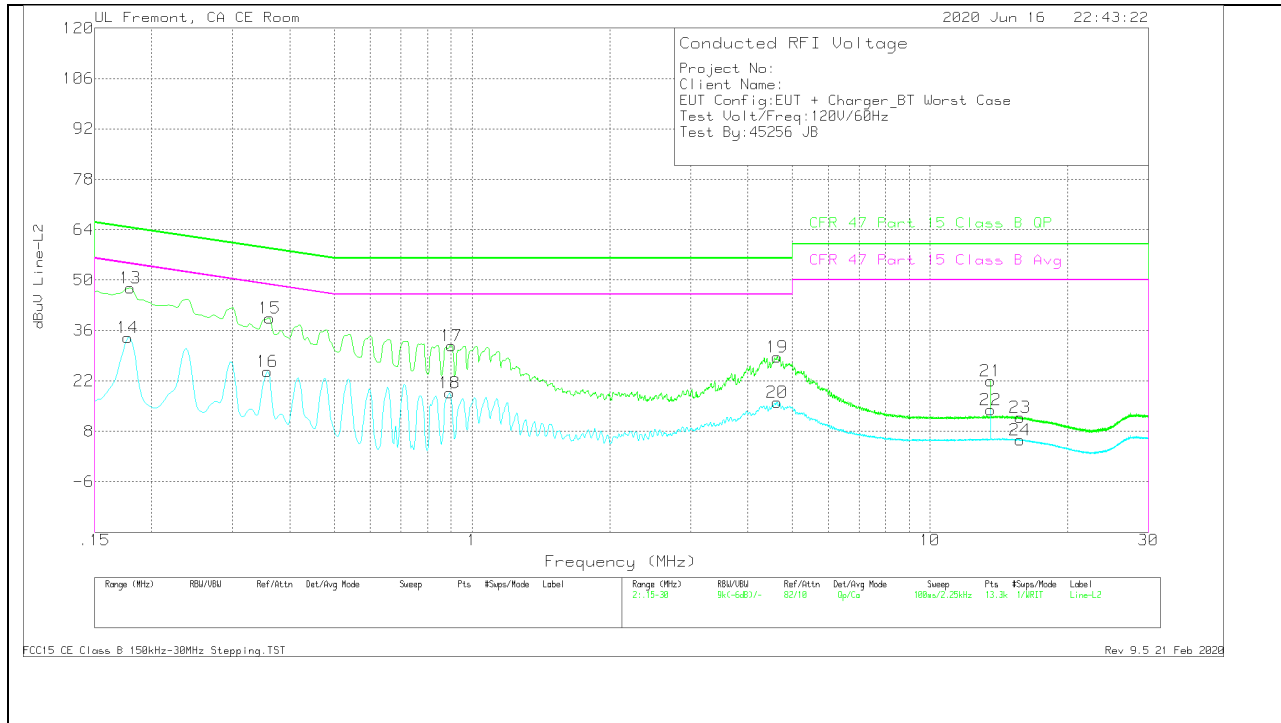


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.17925	37.49	Qp	0	0	10	47.49	64.52	-17.03	-	-
2	.17925	22.83	Ca	0	0	10	32.83	-	-	54.52	-21.69
3	.3615	29.3	Qp	0	0	10	39.3	58.69	-19.39	-	-
4	.357	13.17	Ca	0	0	10	23.17	-	-	48.8	-25.63
5	.897	23	Qp	0	0	10	33	56	-23	-	-
6	.89475	5.5	Ca	0	0	10	15.5	-	-	46	-30.5
7	4.6545	14.08	Qp	0	.1	10.1	24.28	56	-31.72	-	-
8	4.641	1.56	Ca	0	.1	10.1	11.76	-	-	46	-34.24
9	13.56	9.79	Qp	.1	.2	10.1	20.19	60	-39.81	-	-
10	13.56	-.84	Ca	.1	.2	10.1	9.56	-	-	50	-40.44
11	16.152	2.15	Qp	0	.3	10.2	12.65	60	-47.35	-	-
12	16.14975	-6.56	Ca	0	.3	10.2	3.94	-	-	50	-46.06

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.17925	37.79	Qp	0	0	10	47.79	64.52	-16.73	-	-
14	.177	24	Ca	0	0	10	34	-	-	54.63	-20.63
15	.3615	29.44	Qp	0	0	10	39.44	58.69	-19.25	-	-
16	.357	14.56	Ca	0	0	10	24.56	-	-	48.8	-24.24
17	.9015	21.82	Qp	0	0	10	31.82	56	-24.18	-	-
18	.89475	8.72	Ca	0	0	10	18.72	-	-	46	-27.28
19	4.64325	18.49	Qp	0	.1	10.1	28.69	56	-27.31	-	-
20	4.64325	5.81	Ca	0	.1	10.1	16.01	-	-	46	-29.99
21	13.56	11.58	Qp	.1	.2	10.1	21.98	60	-38.02	-	-
22	13.56	3.63	Ca	.1	.2	10.1	14.03	-	-	50	-35.97
23	15.74025	1.39	Qp	0	.3	10.2	11.89	60	-48.11	-	-
24	15.7515	-4.88	Ca	0	.3	10.2	5.62	-	-	50	-44.38

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 13179116-EP1V1 for setup photos

END OF TEST REPORT

END OF TEST REPORT