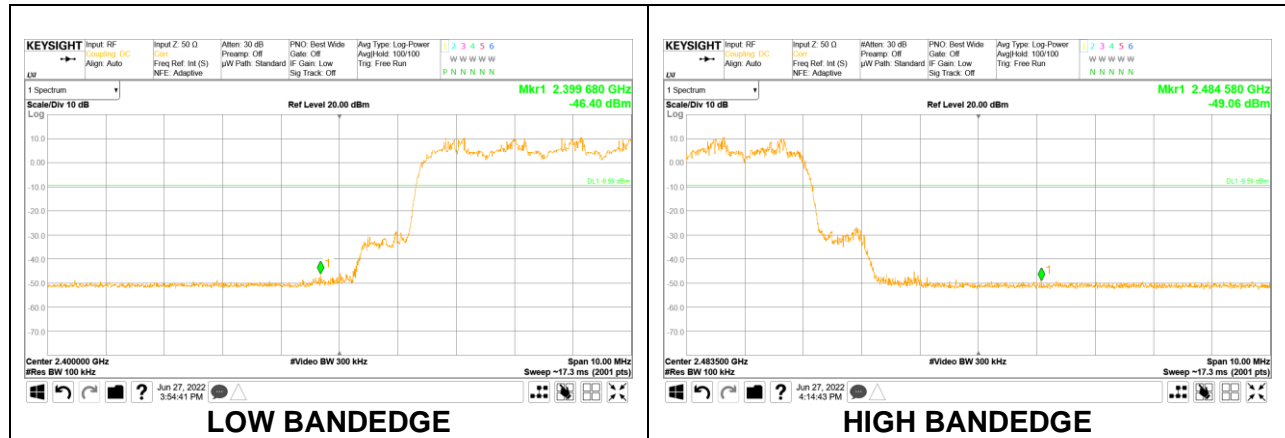


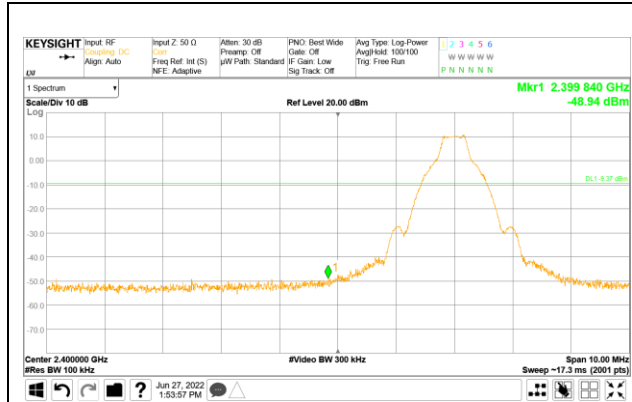
**SPURIOUS BANDEGE EMISSIONS WITH HOPPING ON**



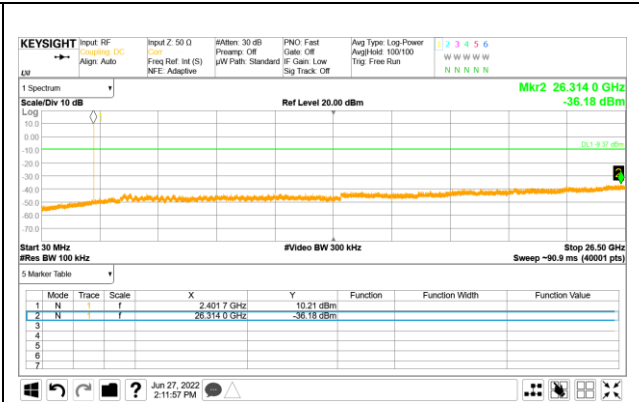
- Right

### 9.8.3. BLUETOOTH BASIC DATA RATE GFSK MODULATION

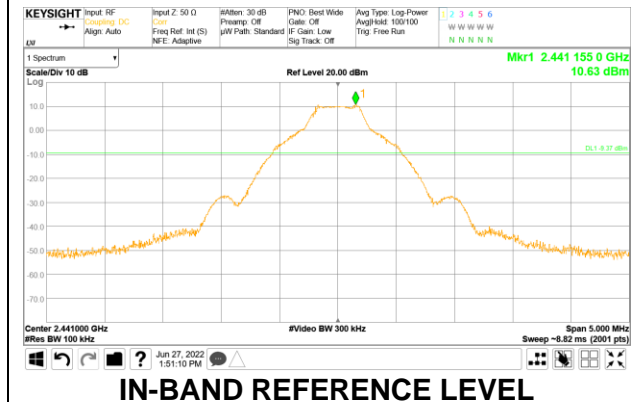
#### SPURIOUS EMISSIONS, NON-HOPPING



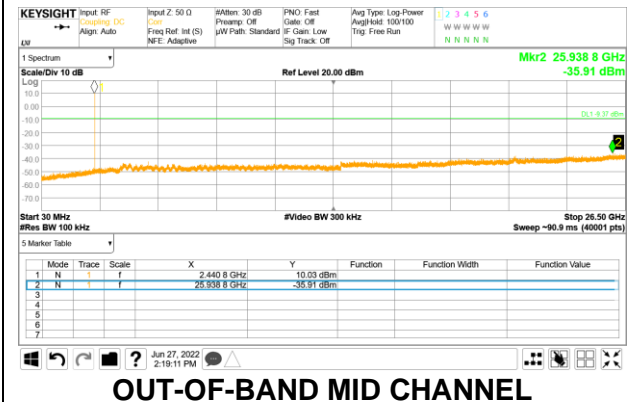
**LOW CHANNEL BANDEDGE**



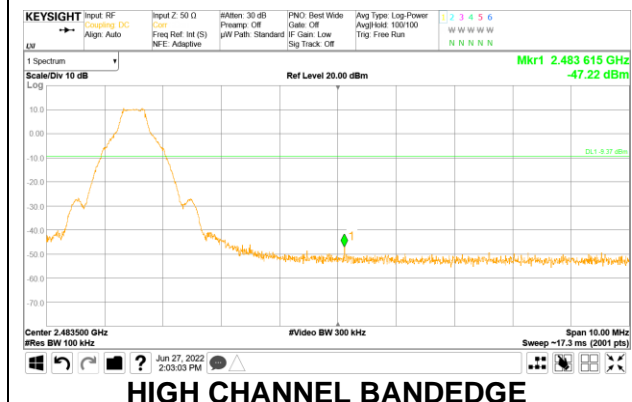
**OUT-OF-BAND LOW CHANNEL**



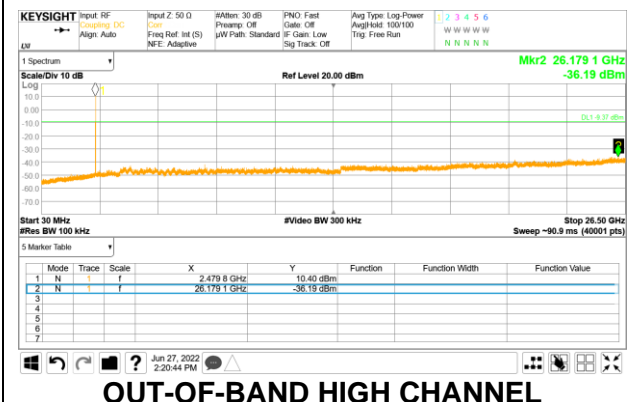
**IN-BAND REFERENCE LEVEL**



**OUT-OF-BAND MID CHANNEL**

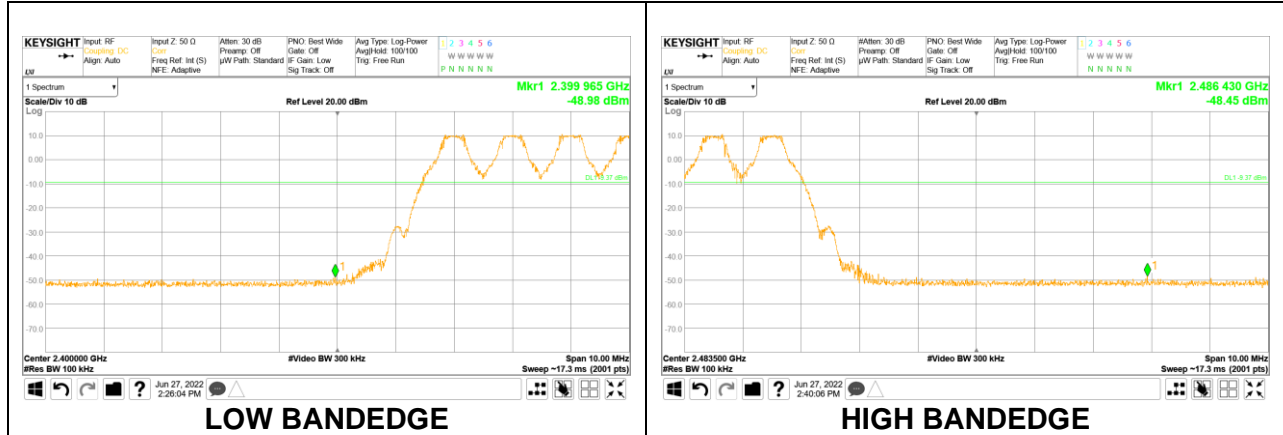


**HIGH CHANNEL BANDEDGE**



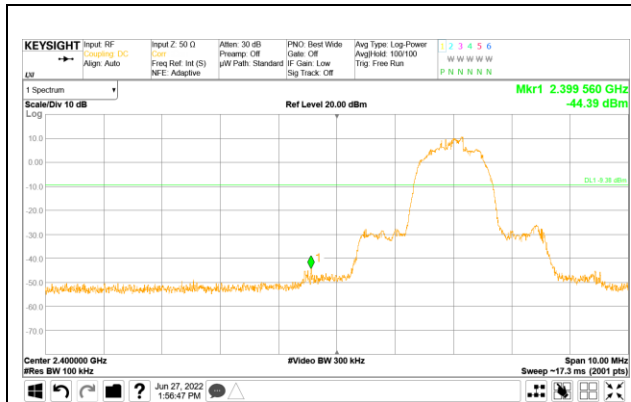
**OUT-OF-BAND HIGH CHANNEL**

**SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON**

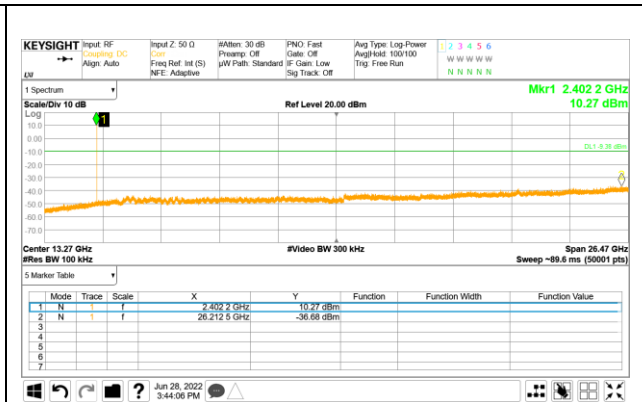


### 9.8.4. BLUETOOTH ENHANCED DATA RATE 8DPSK MODULATION

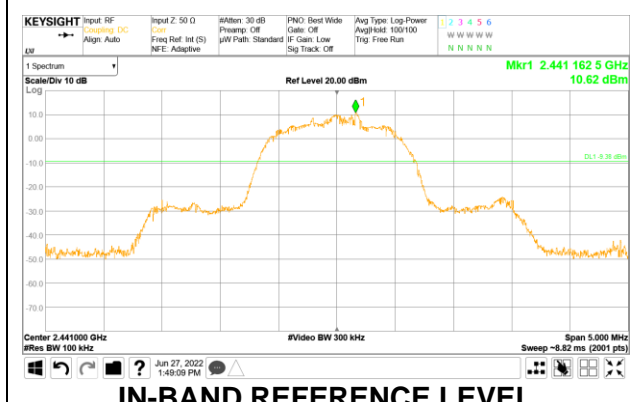
#### SPURIOUS EMISSIONS, NON-HOPPING



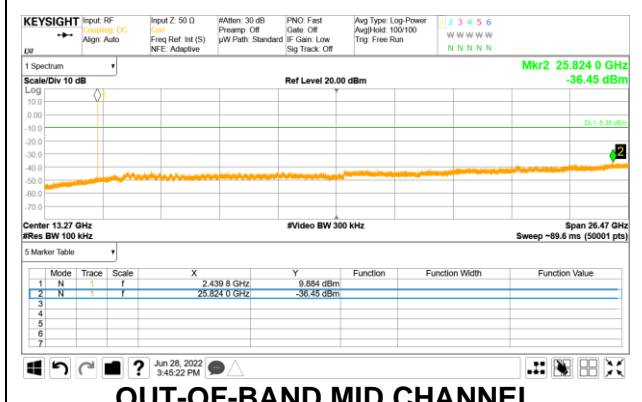
**LOW CHANNEL BANDEDGE**



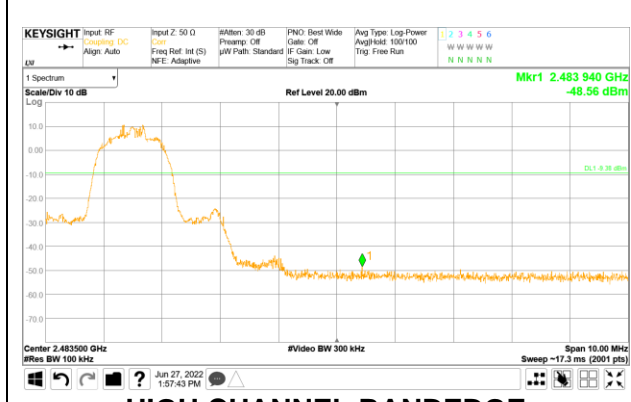
**OUT-OF-BAND LOW CHANNEL**



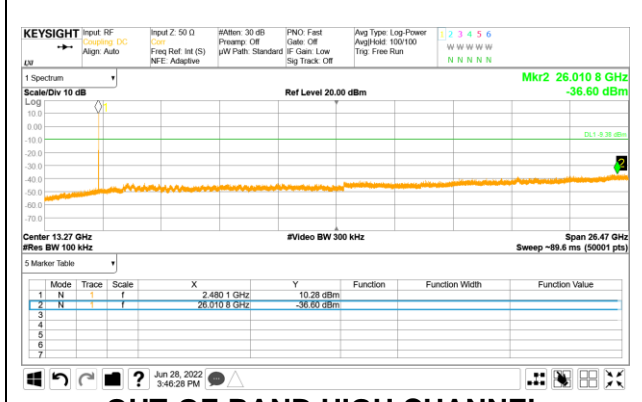
**IN-BAND REFERENCE LEVEL**



**OUT-OF-BAND MID CHANNEL**

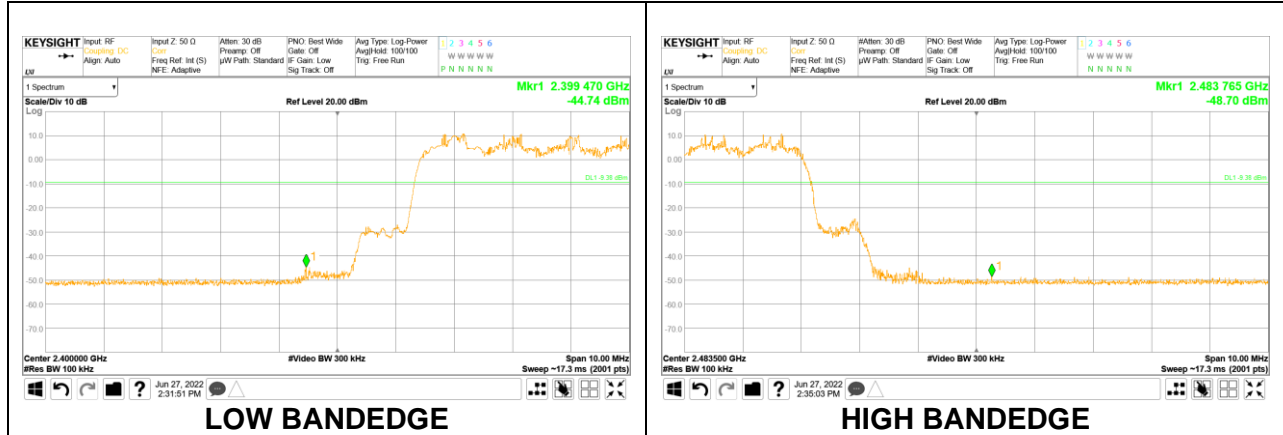


**HIGH CHANNEL BANDEDGE**



**OUT-OF-BAND HIGH CHANNEL**

**SPURIOUS BANDEGE EMISSIONS WITH HOPPING ON**



## 10. RADIATED TEST RESULTS

### 10.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

RSS-Gen 8.9 and 8.10

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
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.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

## **TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for 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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.(Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.)

For band edge measurements 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/T (on time) for average measurement.

$$\text{GFSK} = 1/T = 1 / 0.002876\text{S} = 347\text{Hz}.$$

The minimum VBW was 347Hz, but test receiver(ESU40) couldn't set value 347Hz. Due to this reason, testing VBW was set to 500Hz(Worst cases).

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.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).  
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open field test site.  
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

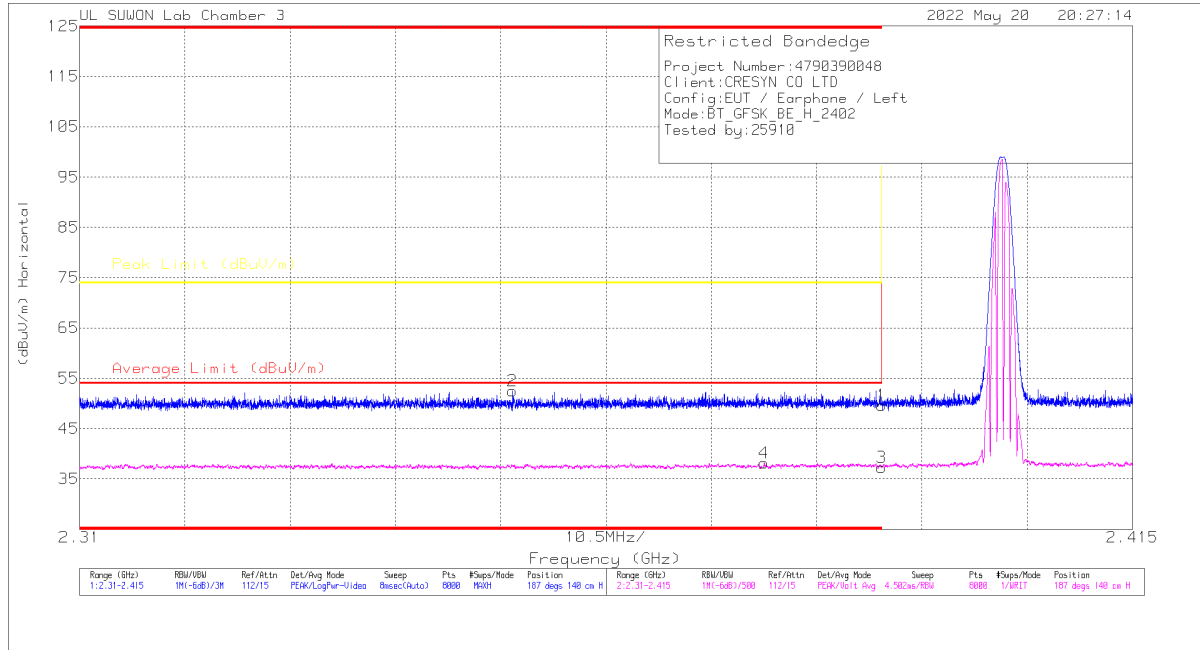
## 10.2. TRANSMITTER ABOVE 1 GHz

- Left

### 10.2.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.58	Pk	32.8	-24.8	49.58	-	-	74	-24.42	187	140	H
2	* 2.35316	44.84	Pk	32.6	-24.9	52.54	-	-	74	-21.46	187	140	H
3	* 2.39	29.28	VA1T	32.8	-24.8	37.28	54	-16.72	-	-	187	140	H
4	* 2.37827	30.42	VA1T	32.7	-24.9	38.22	54	-15.78	-	-	187	140	H

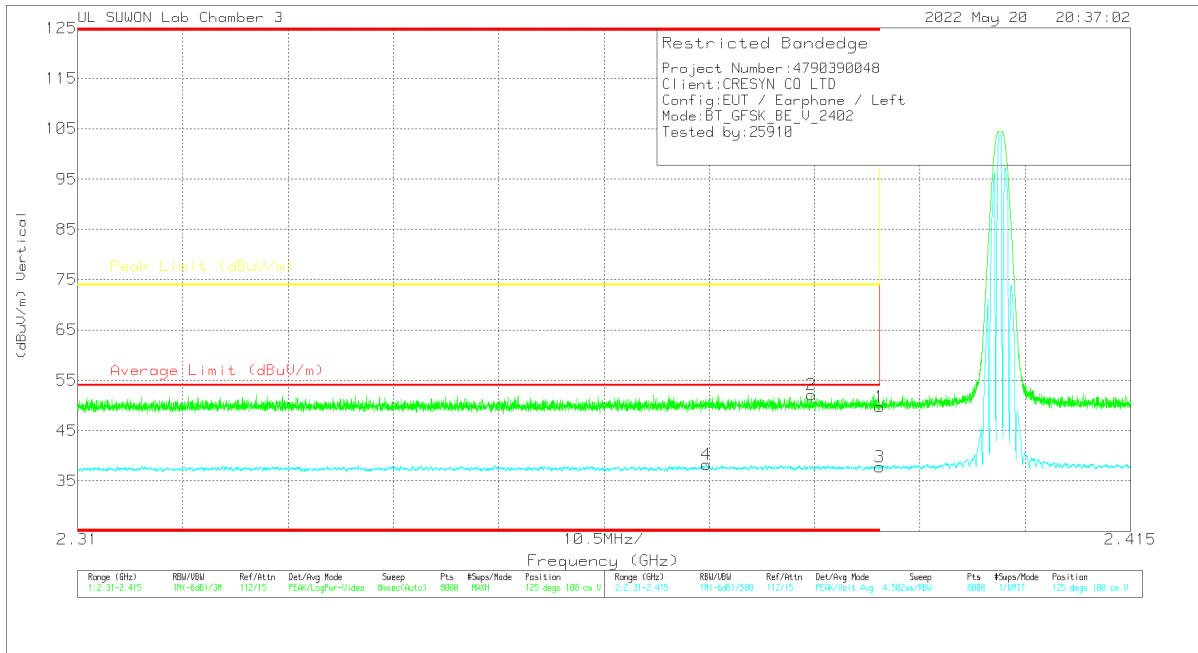
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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



### VERTICAL RESULT



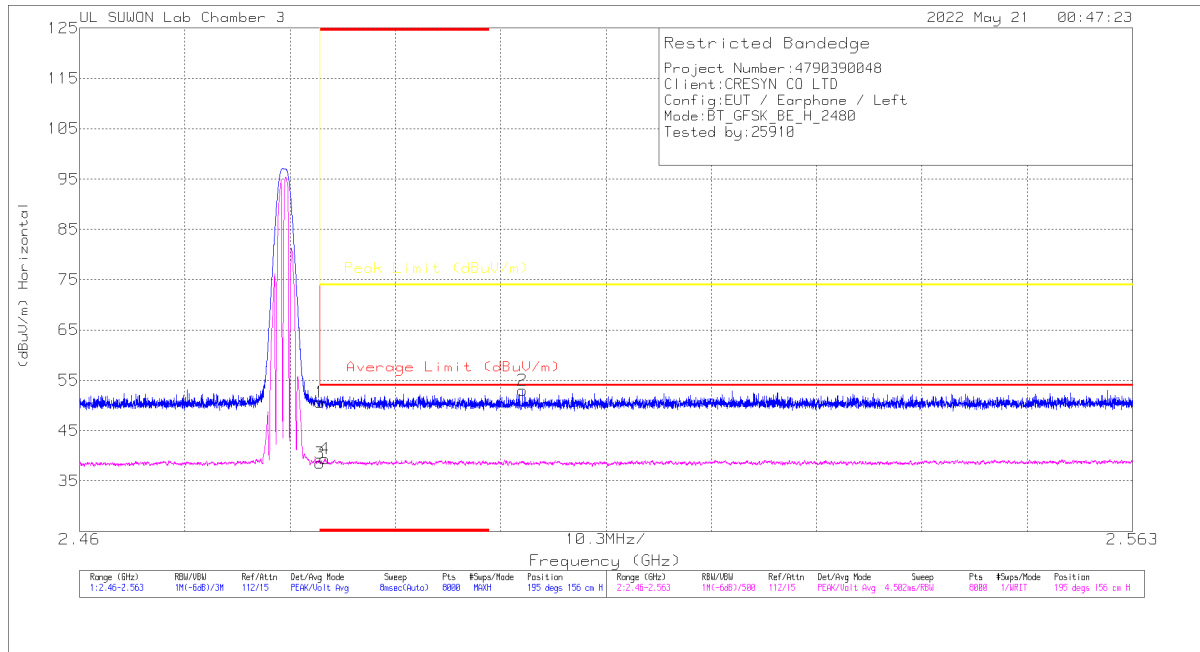
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.77	Pk	32.8	-24.8	49.77	-	-	74	-24.23	125	100	V
2	* 2.38317	44.37	Pk	32.7	-24.9	52.17	-	-	74	-21.83	125	100	V
3	* 2.39	29.78	VA1T	32.8	-24.8	37.78	54	-16.22	-	-	125	100	V
4	* 2.37267	30.54	VA1T	32.7	-24.9	38.34	54	-15.66	-	-	125	100	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**

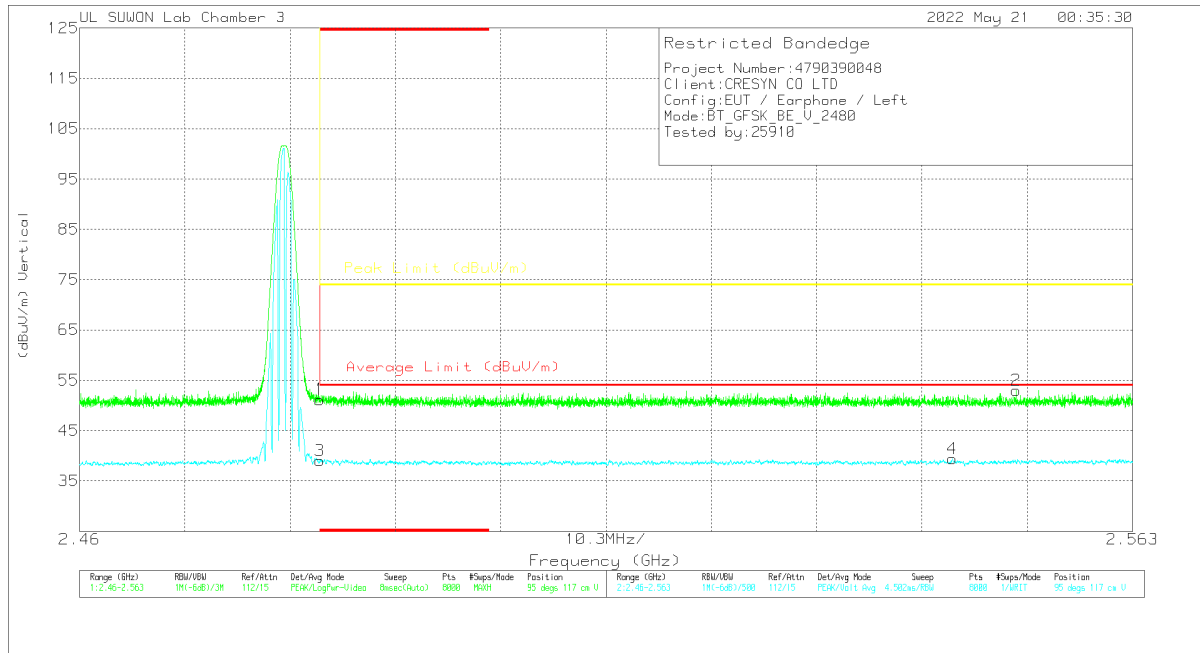


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.44	Pk		-24.7	50.64	-	-	74	-23.36	195	156	H
2	2.50332	44.78	Pk		-24.7	52.98	-	-	74	-21.02	195	156	H
3	* 2.4835	30.36	VA1T		-24.7	38.56	54	-15.44	-	-	195	156	H
4	* 2.484	31.2	VA1T		-24.7	39.4	54	-14.6	-	-	195	156	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



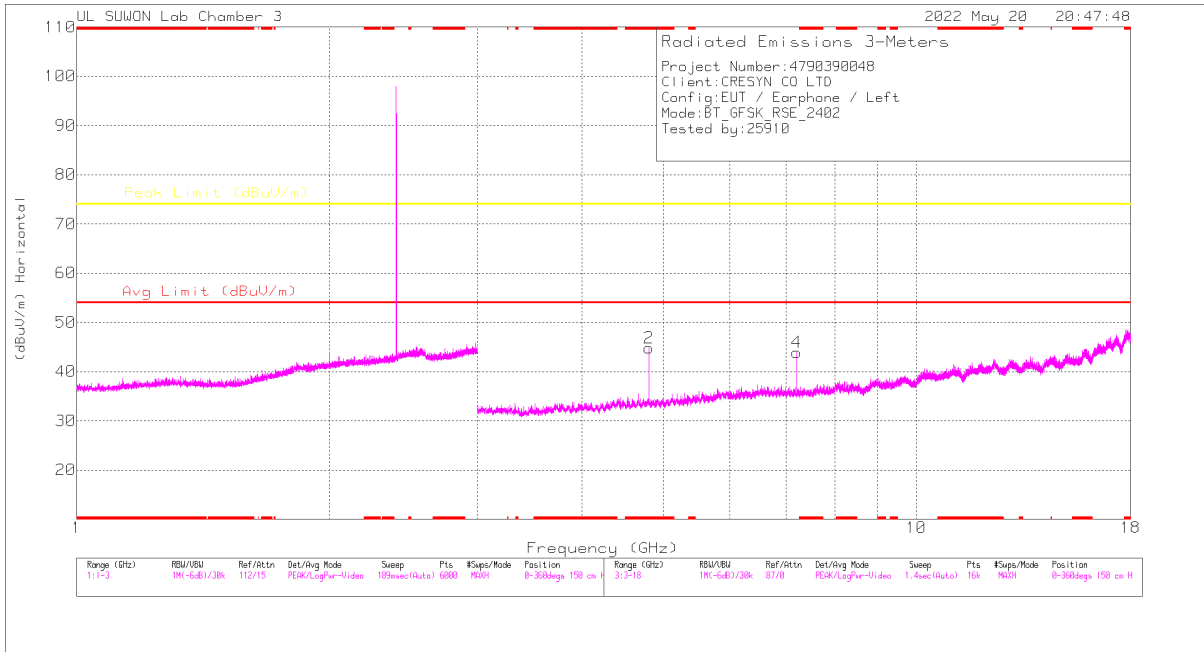
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.99	Pk		-24.7	51.19	-	-	74	-22.81	95	117	V
2	2.55162	44.75	Pk		-24.6	53.05	-	-	74	-20.95	95	117	V
3	* 2.4835	30.79	VA1T		-24.7	38.99	54	-15.01	-	-	95	117	V
4	2.54537	31.09	VA1T		-24.6	39.39	54	-14.61	-	-	95	117	V

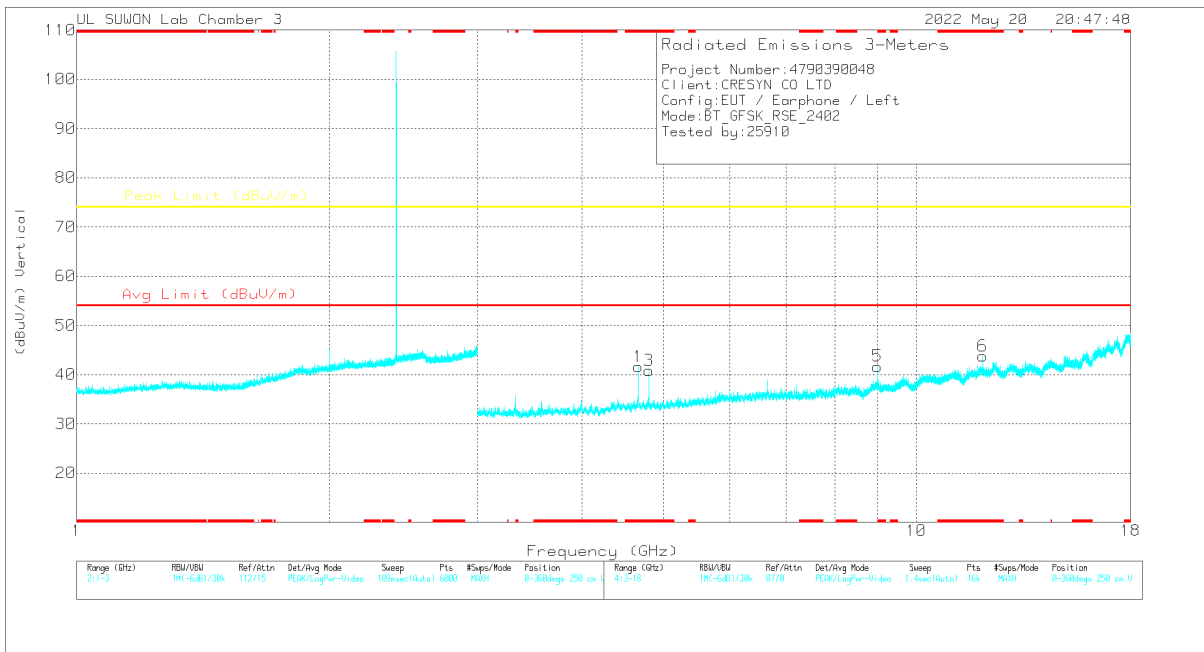
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### HARMONICS AND SPURIOUS EMISSIONS

#### LOW CHANNEL RESULTS



#### HORIZONTAL



#### VERTICAL

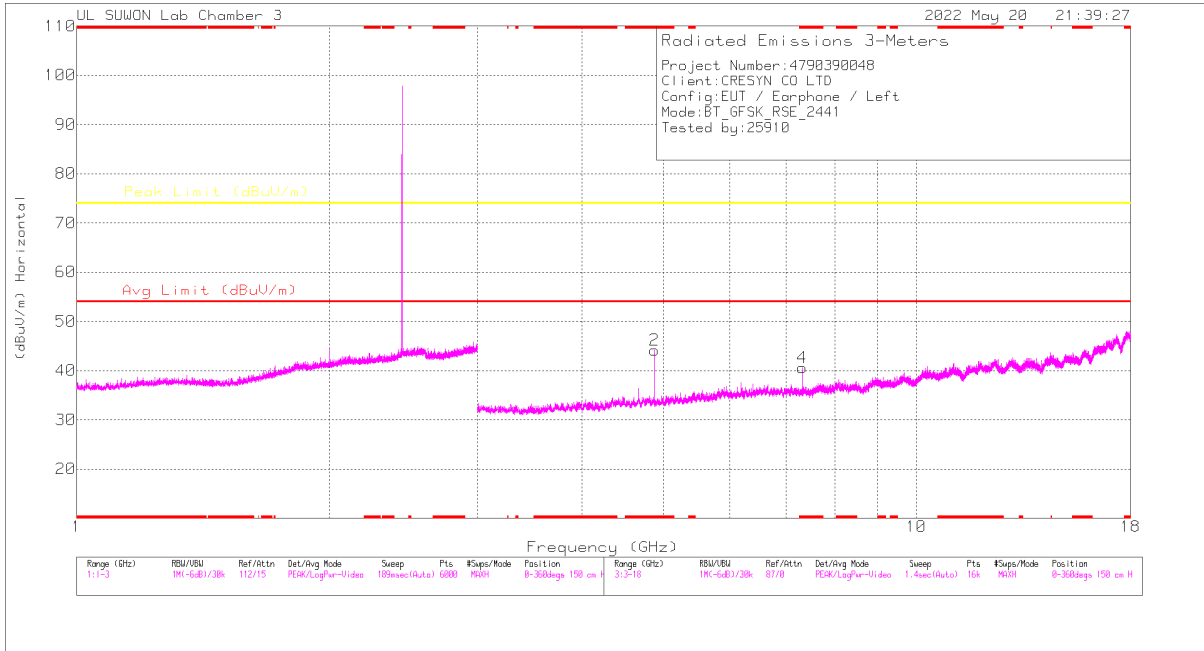
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

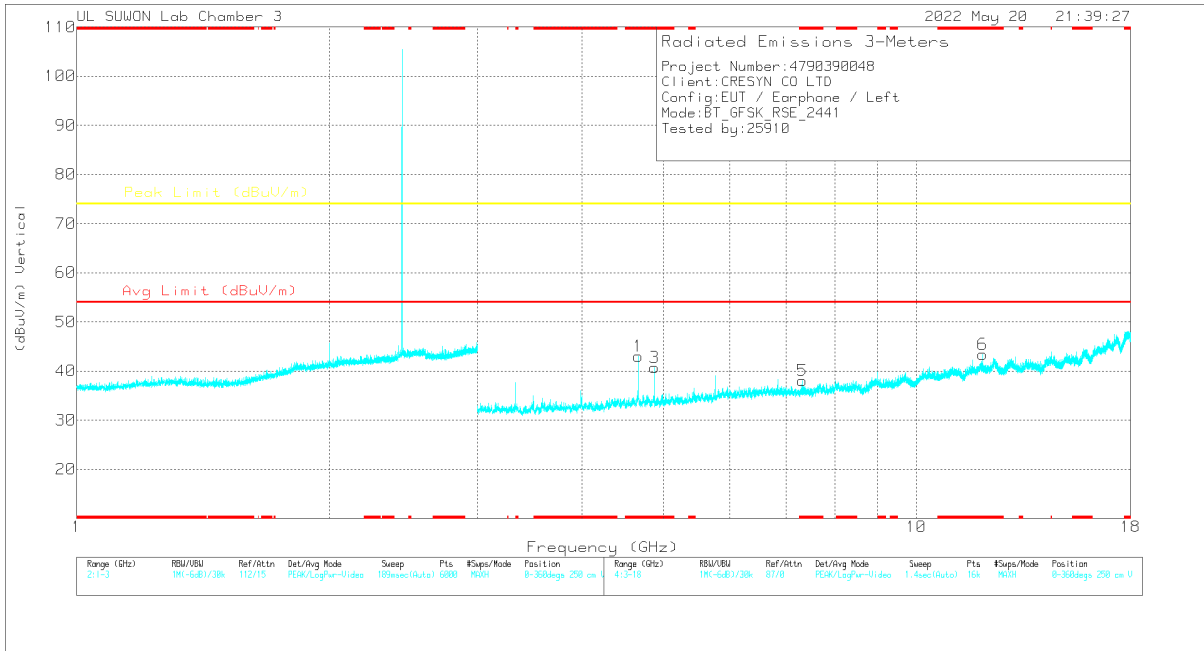
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80416	42.91	PKFH	34.6	-29.9	47.61	-	-	74	-26.39	311	101	H
* 4.80404	36.58	VA1T	34.6	-29.9	41.28	54	-12.72	-	-	311	101	H
7.20638	39.13	PKFH	36.1	-25.6	49.63	-	-	74	-24.37	59	102	H
* 4.66666	44.51	PKFH	34.5	-30	49.01	-	-	74	-24.99	268	100	V
* 4.66648	37.56	VA1T	34.5	-30	42.06	54	-11.94	-	-	268	100	V
* 4.80352	42.14	PKFH	34.6	-29.9	46.84	-	-	74	-27.16	173	379	V
* 4.80408	34.93	VA1T	34.6	-29.9	39.63	54	-14.37	-	-	173	379	V
* 9.00147	32.13	PKFH	36.8	-22.3	46.63	-	-	74	-27.37	147	128	V
* 9	21.28	VA1T	36.8	-22.3	35.78	54	-18.22	-	-	147	128	V
* 11.99954	33.51	PKFH	39.2	-21.9	50.81	-	-	74	-23.19	101	100	V
* 11.99933	25.74	VA1T	39.2	-21.9	43.04	54	-10.96	-	-	101	100	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



### HORIZONTAL



### VERTICAL

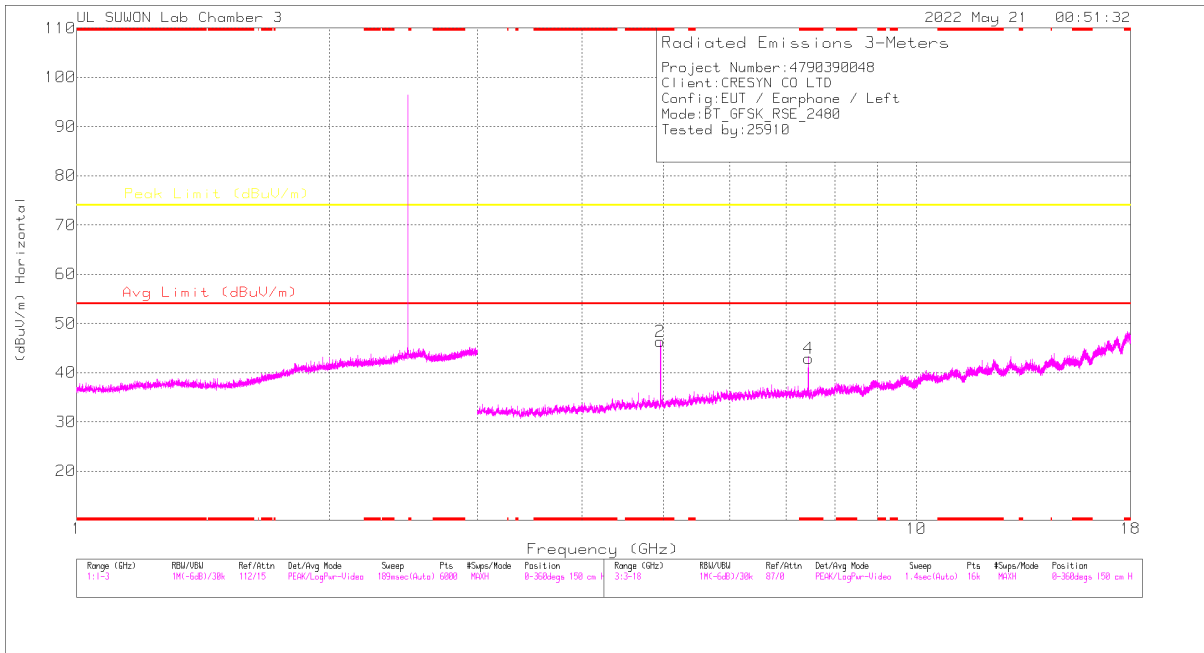
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

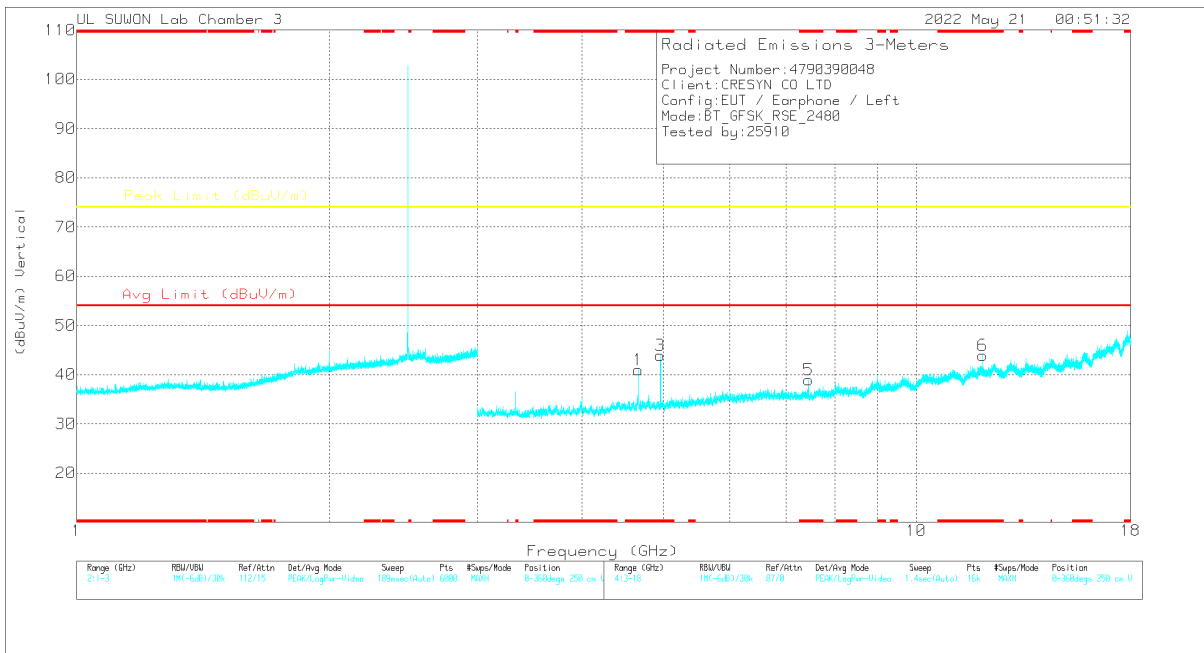
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.8815	43.73	PKFH	34.7	-30.6	47.83	-	-	74	-26.17	311	103	H
* 4.88204	37.19	VA1T	34.7	-30.7	41.19	54	-12.81	-	-	311	103	H
* 7.32352	36.82	PKFH	36	-25.1	47.72	-	-	74	-26.28	81	106	H
* 7.32309	27.35	VA1T	36	-25.1	38.25	54	-15.75	-	-	81	106	H
* 4.66664	44.1	PKFH	34.5	-30	48.6	-	-	74	-25.4	267	100	V
* 4.66642	37.03	VA1T	34.5	-30	41.53	54	-12.47	-	-	267	100	V
* 4.88167	42.8	PKFH	34.7	-30.7	46.8	-	-	74	-27.2	173	387	V
* 4.88206	35.85	VA1T	34.7	-30.7	39.85	54	-14.15	-	-	173	387	V
* 7.32354	34.8	PKFH	36	-25.1	45.7	-	-	74	-28.3	198	101	V
* 7.32283	23.28	VA1T	36	-25.1	34.18	54	-19.82	-	-	198	101	V
* 11.99957	32.68	PKFH	39.2	-21.9	49.98	-	-	74	-24.02	268	101	V
* 11.99944	25.08	VA1T	39.2	-21.9	42.38	54	-11.62	-	-	268	101	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



### HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



**RADIATED EMISSIONS**

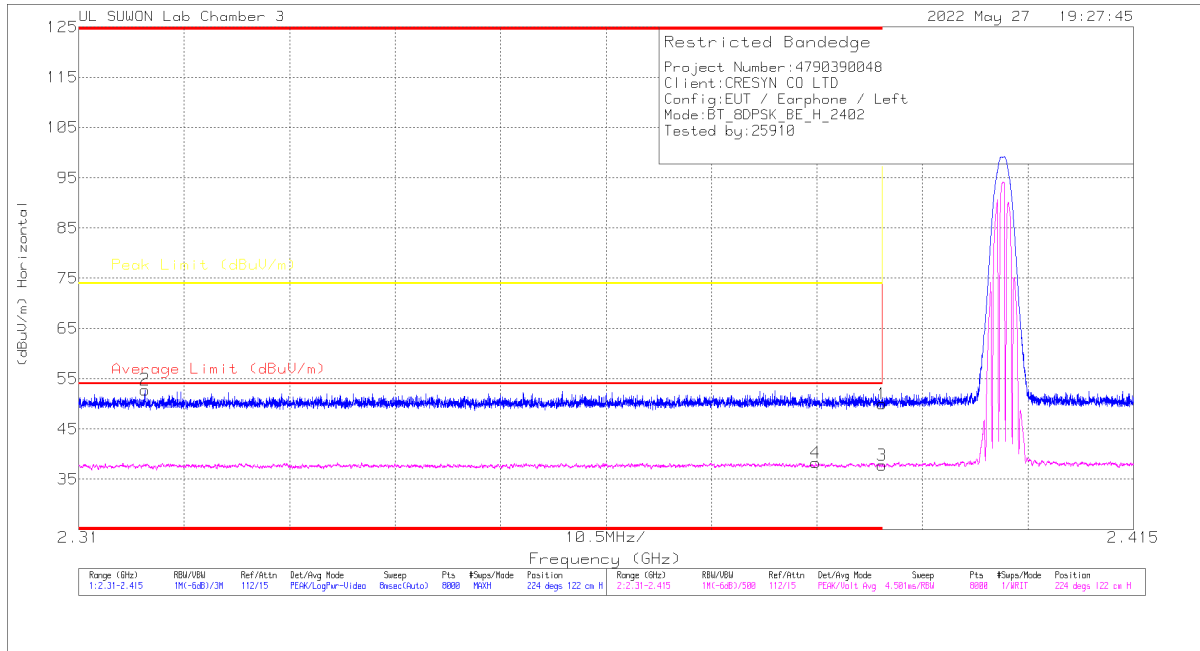
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96024	45.18	PKFH	34.7	-30.4	49.48	-	-	74	-24.52	50	375	H
* 4.95998	40.79	VA1T	34.7	-30.4	45.09	54	-8.91	-	-	50	375	H
* 7.44039	39	PKFH	36	-24.8	50.2	-	-	74	-23.8	74	105	H
* 7.4401	31.58	VA1T	36	-24.8	42.78	54	-11.22	-	-	74	105	H
* 4.66622	42.94	PKFH	34.5	-30	47.44	-	-	74	-26.56	55	110	V
* 4.66641	35.41	VA1T	34.5	-30	39.91	54	-14.09	-	-	55	110	V
* 4.95973	44.38	PKFH	34.7	-30.4	48.68	-	-	74	-25.32	208	105	V
* 4.95996	35.81	VA1T	34.7	-30.4	40.11	54	-13.89	-	-	208	105	V
* 7.43954	36.56	PKFH	36	-24.8	47.76	-	-	74	-26.24	156	393	V
* 7.4401	26.85	VA1T	36	-24.8	38.05	54	-15.95	-	-	156	393	V
* 11.99948	32.83	PKFH	39.2	-21.9	50.13	-	-	74	-23.87	99	100	V
* 11.99952	25.86	VA1T	39.2	-21.9	43.16	54	-10.84	-	-	99	100	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

**10.2.2. BLUETOOTH ENHANCED DATA RATE 8DPSK MODULATION**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

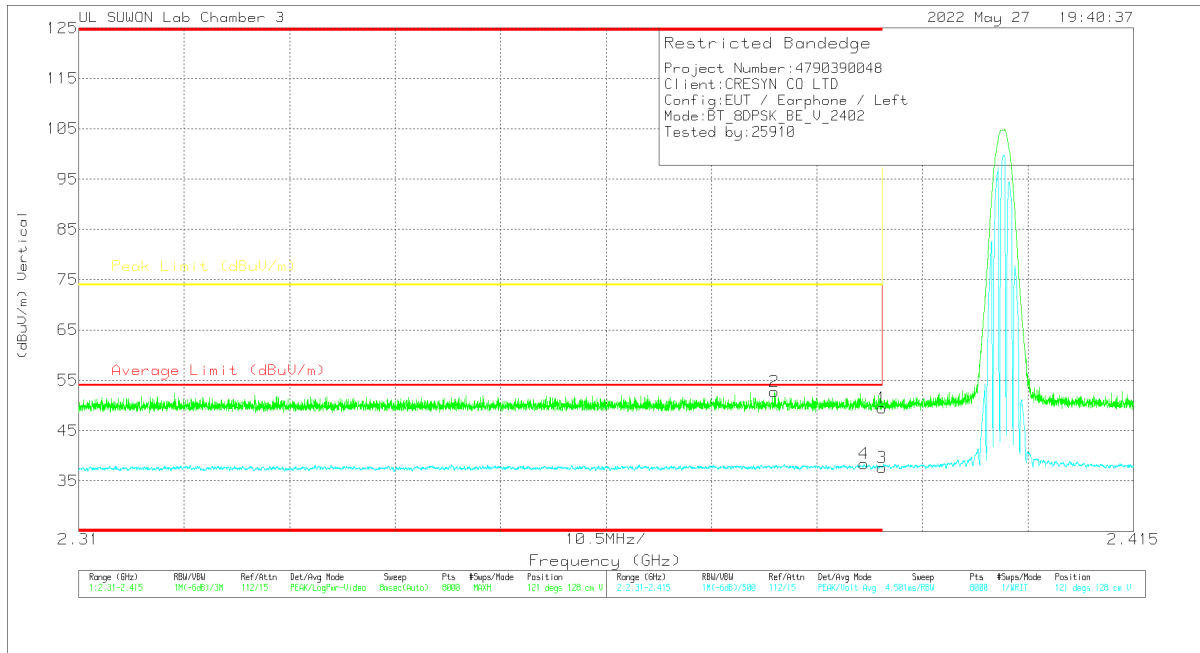


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.98	Pk		-24.8	49.98	-	-	74	-24.02	224	122	H
2	* 2.31659	45.21	Pk		-24.9	52.81	-	-	74	-21.19	224	122	H
3	* 2.39	29.81	VA1T		-24.8	37.81	54	-16.19	-	-	224	122	H
4	* 2.38337	30.52	VA1T		-24.9	38.32	54	-15.68	-	-	224	122	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



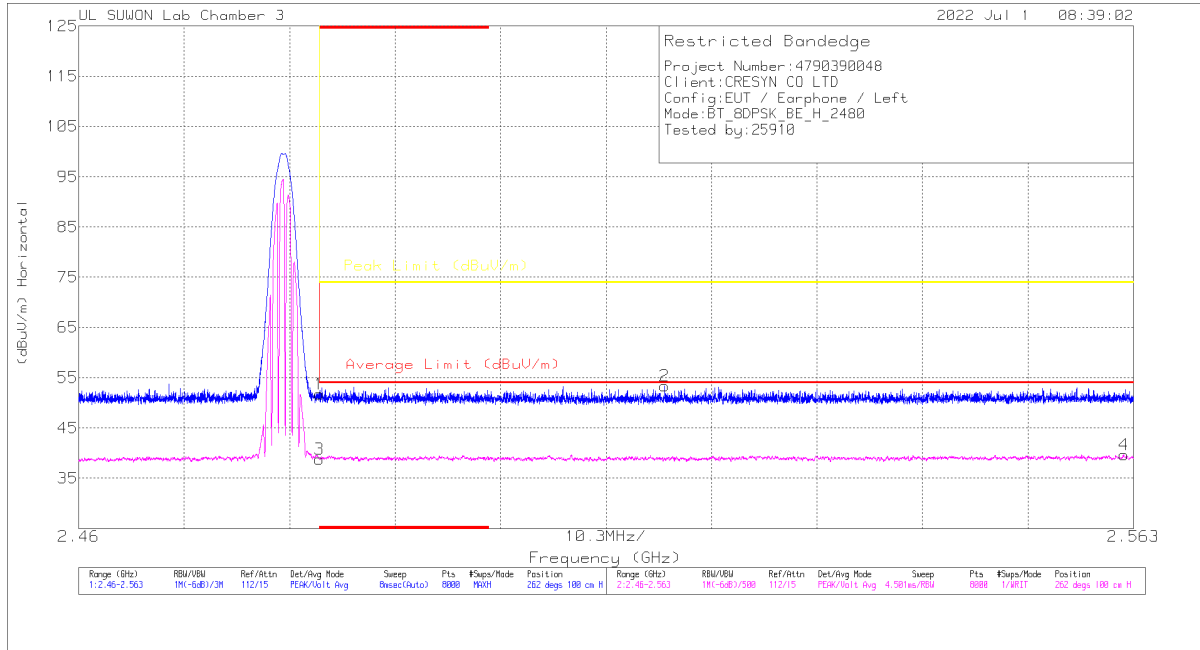
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.51	Pk	32.8	-24.8	49.51	-	-	74	-24.49	121	128	V
2	* 2.37927	44.98	Pk	32.7	-24.9	52.78	-	-	74	-21.22	121	128	V
3	* 2.39	29.69	VA1T	32.8	-24.8	37.69	54	-16.31	-	-	121	128	V
4	* 2.38817	30.4	VA1T	32.8	-24.8	38.4	54	-15.6	-	-	121	128	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**

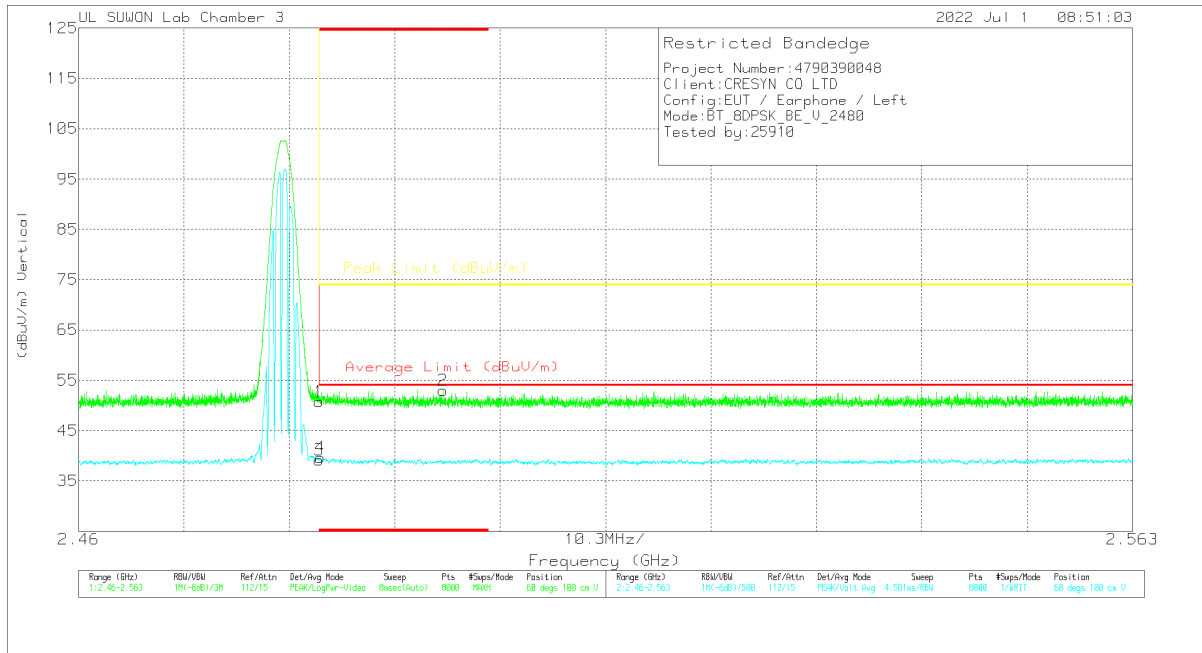


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	43.56	Pk	32.9	-24.7	51.76	-	-	74	-22.24	262	100	H
2	2.51723	45.2	Pk	32.9	-24.7	53.4	-	-	74	-20.6	262	100	H
3	* 2.4835	30.55	VA1T	32.9	-24.7	38.75	54	-15.25	-	-	262	100	H
4	2.56206	31.36	VA1T	32.9	-24.6	39.66	54	-14.34	-	-	262	100	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



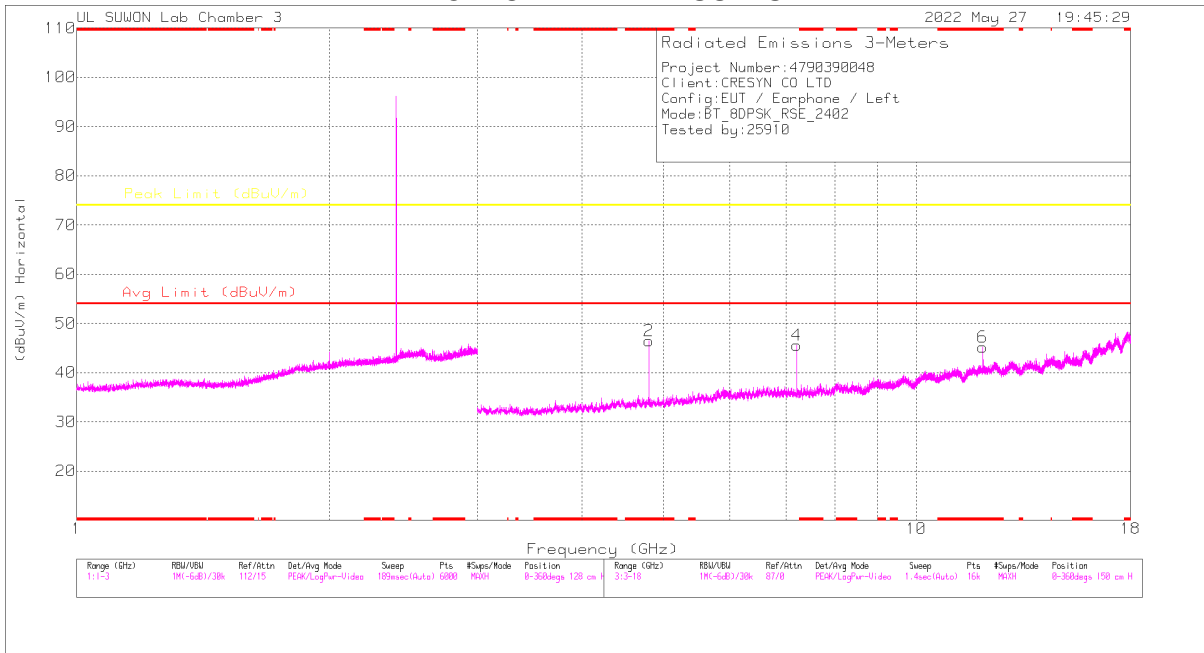
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.59	Pk	32.9	-24.7	50.79	-	-	74	-23.21	60	100	V
2	* 2.49562	44.77	Pk	32.9	-24.7	52.97	-	-	74	-21.03	60	100	V
3	* 2.4835	30.96	VA1T	32.9	-24.7	39.16	54	-14.84	-	-	60	100	V
4	* 2.4836	31.46	VA1T	32.9	-24.7	39.66	54	-14.34	-	-	60	100	V

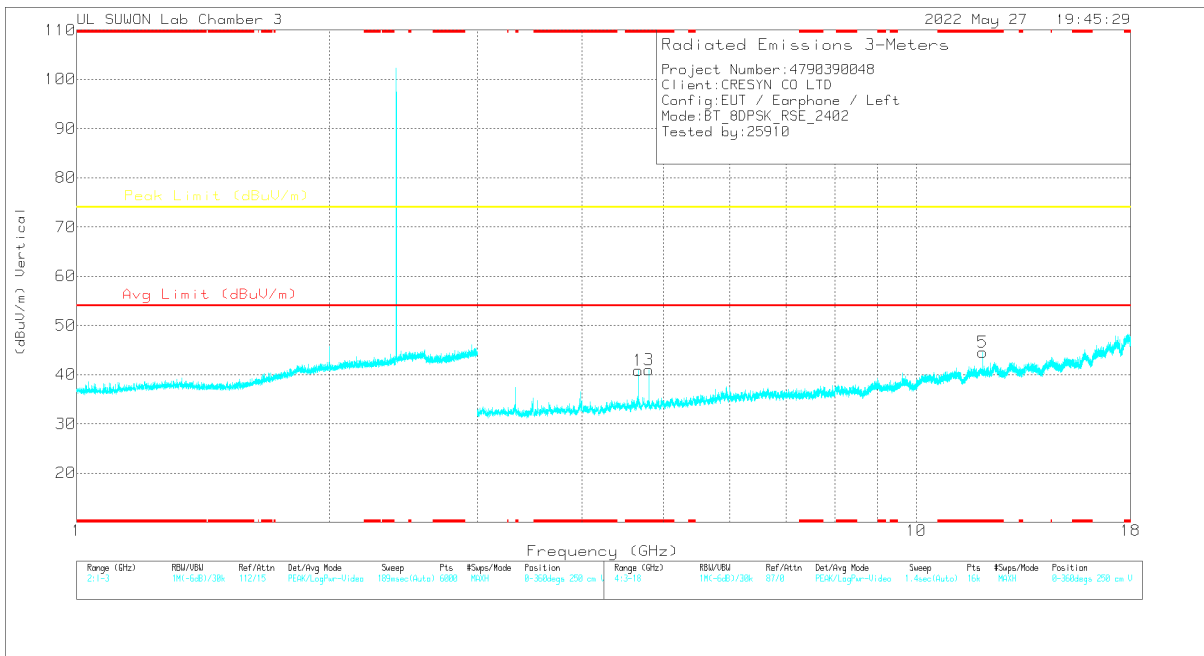
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### HARMONICS AND SPURIOUS EMISSIONS

#### LOW CHANNEL RESULTS



#### HORIZONTAL



#### VERTICAL

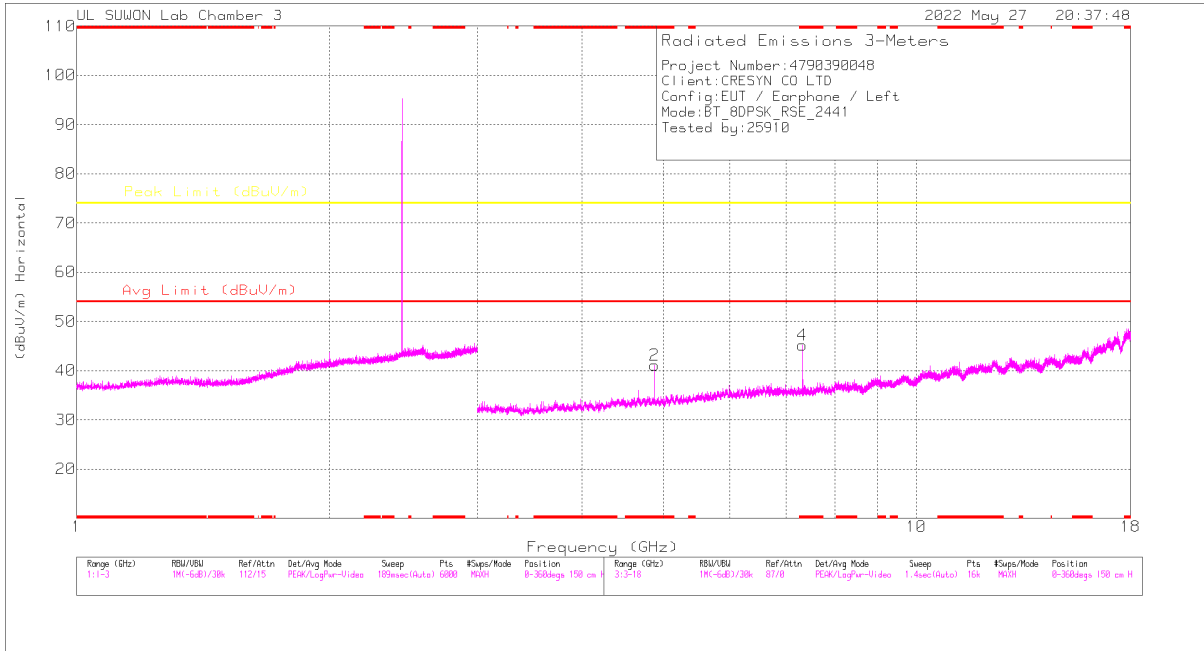
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

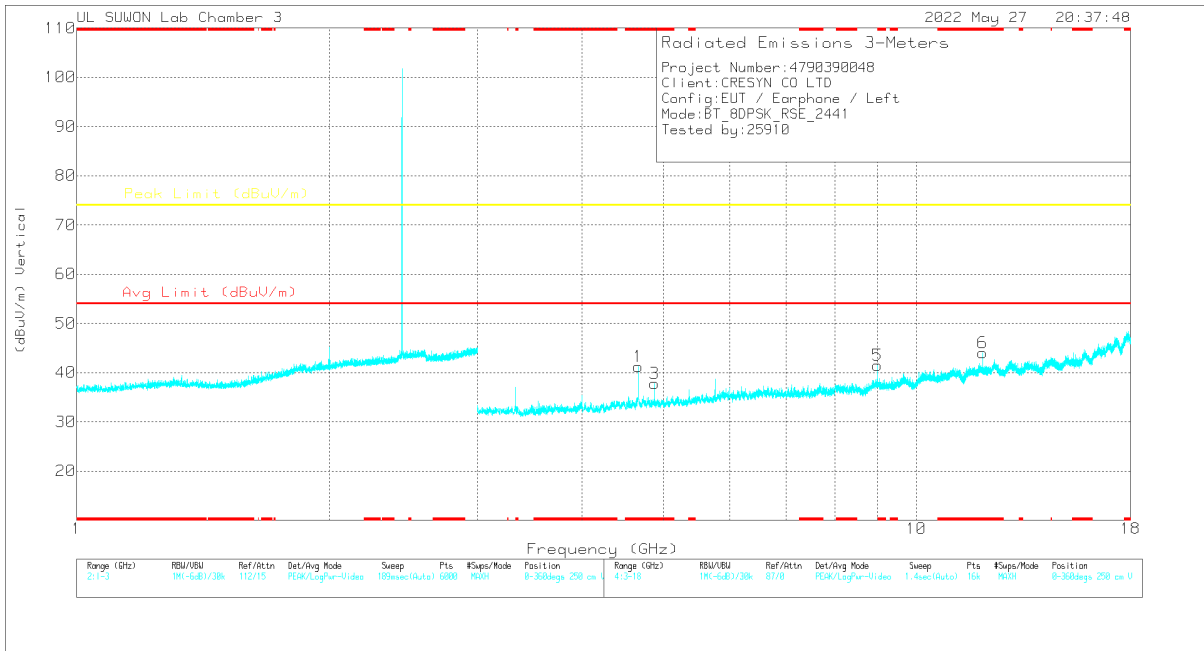
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80371	46.08	PKFH	34.6	-29.9	50.78	-	-	74	-23.22	47	104	H
* 4.80392	34	VA1T	34.6	-29.9	38.7	54	-15.3	-	-	47	104	H
7.20657	40.46	PKFH	36.1	-25.6	50.96	-	-	74	-23.04	68	104	H
* 12.01036	32.83	PKFH	39.2	-21.9	50.13	-	-	74	-23.87	307	101	H
* 12.0105	19.85	VA1T	39.2	-21.9	37.15	54	-16.85	-	-	307	101	H
* 4.66632	43.84	PKFH	34.5	-30	48.34	-	-	74	-25.66	273	107	V
* 4.66636	37.06	VA1T	34.5	-30	41.56	54	-12.44	-	-	273	107	V
* 4.8039	42.41	PKFH	34.6	-29.9	47.11	-	-	74	-26.89	171	110	V
* 4.80402	31.97	VA1T	34.6	-29.9	36.67	54	-17.33	-	-	171	110	V
* 11.99933	33.05	PKFH	39.2	-21.9	50.35	-	-	74	-23.65	265	110	V
* 11.9995	26.7	VA1T	39.2	-21.9	44	54	-10	-	-	265	110	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



### HORIZONTAL



### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

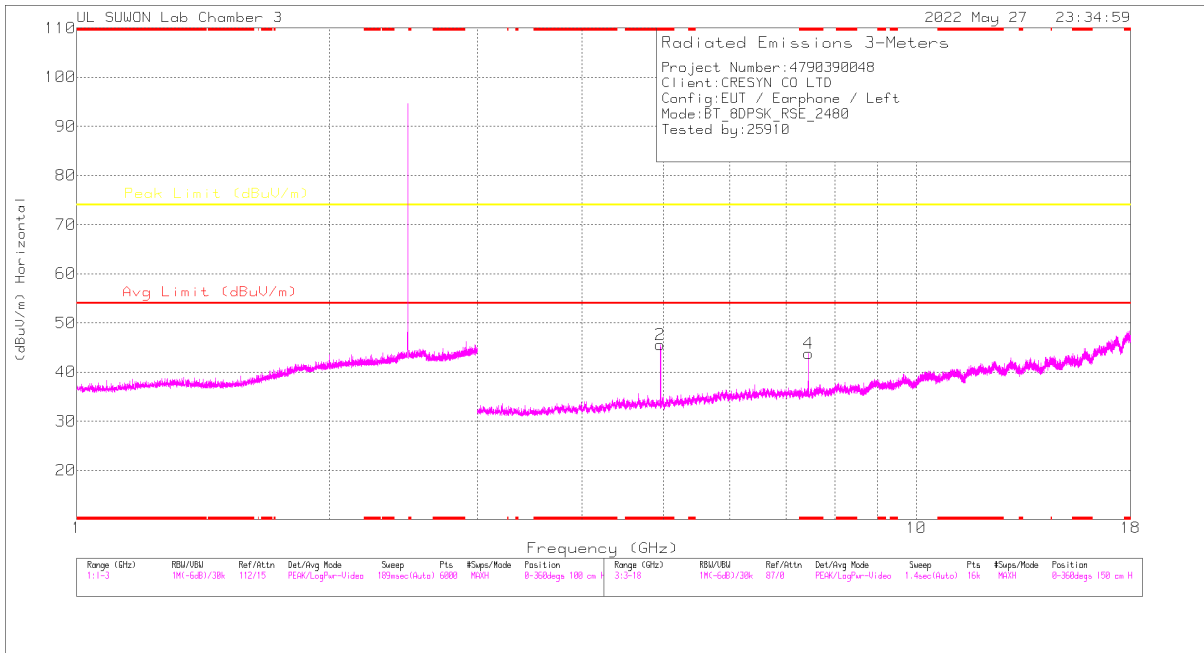


**RADIATED EMISSIONS**

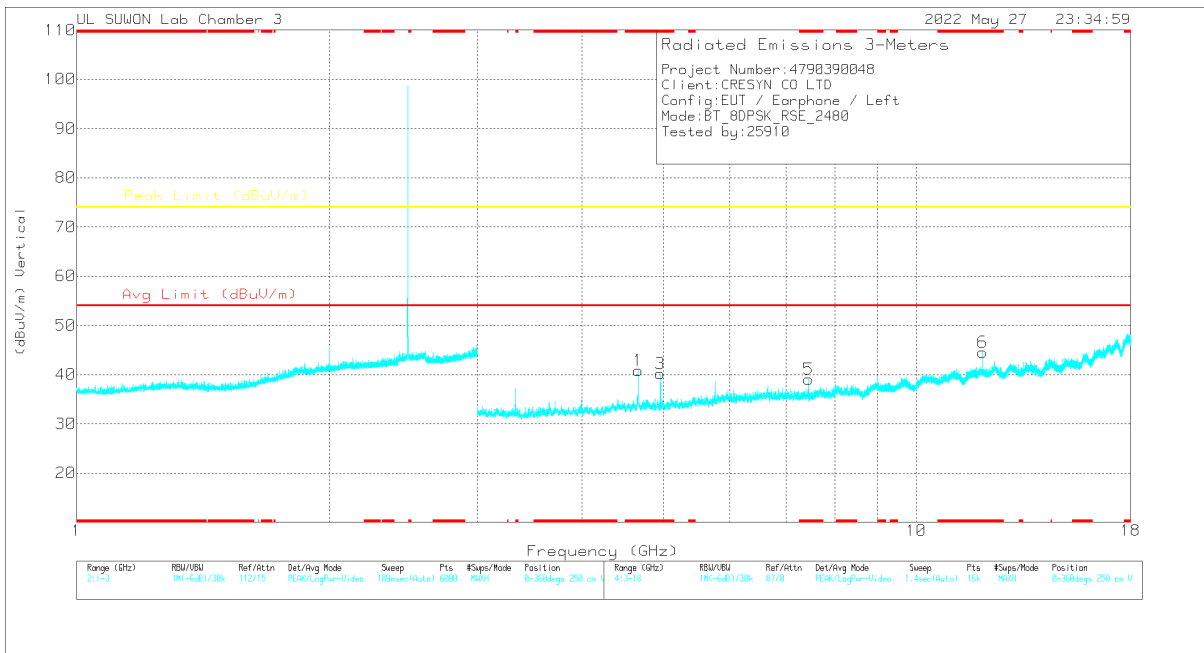
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88162	43.72	PKFH	34.7	-30.7	47.72	-	-	74	-26.28	55	103	H
* 4.88208	32.91	VA1T	34.7	-30.7	36.91	54	-17.09	-	-	55	103	H
* 7.32341	37.56	PKFH	36	-25.1	48.46	-	-	74	-25.54	76	100	H
* 7.32292	23.9	VA1T	36	-25.1	34.8	54	-19.2	-	-	76	100	H
* 4.66651	43.77	PKFH	34.5	-30	48.27	-	-	74	-25.73	271	105	V
* 4.66645	36.71	VA1T	34.5	-30	41.21	54	-12.79	-	-	271	105	V
* 4.88214	41.33	PKFH	34.7	-30.7	45.33	-	-	74	-28.67	169	100	V
* 4.88206	32.21	VA1T	34.7	-30.7	36.21	54	-17.79	-	-	169	100	V
* 9.00004	31.51	PKFH	36.8	-22.3	46.01	-	-	74	-27.99	149	152	V
* 9	20.83	VA1T	36.8	-22.3	35.33	54	-18.67	-	-	149	152	V
* 11.99967	33.44	PKFH	39.2	-21.9	50.74	-	-	74	-23.26	265	112	V
* 11.99953	26.91	VA1T	39.2	-21.9	44.21	54	-9.79	-	-	265	112	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



### HORIZONTAL



### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96004	43.7	PKFH	34.7	-30.4	48	-	-	74	-26	276	110	H
* 4.95984	34.43	VA1T	34.7	-30.4	38.73	54	-15.27	-	-	276	110	H
* 7.44042	38.59	PKFH	36	-24.8	49.79	-	-	74	-24.21	75	107	H
* 7.43999	24.4	VA1T	36	-24.8	35.6	54	-18.4	-	-	75	107	H
* 4.66619	43.33	PKFH	34.5	-30	47.83	-	-	74	-26.17	270	101	V
* 4.66639	36.93	VA1T	34.5	-30	41.43	54	-12.57	-	-	270	101	V
* 4.96003	42.27	PKFH	34.7	-30.4	46.57	-	-	74	-27.43	309	109	V
* 4.95995	34.71	VA1T	34.7	-30.4	39.01	54	-14.99	-	-	309	109	V
* 7.44011	35.6	PKFH	36	-24.8	46.8	-	-	74	-27.2	166	100	V
* 7.43998	22.66	VA1T	36	-24.8	33.86	54	-20.14	-	-	166	100	V
* 11.99963	32.84	PKFH	39.2	-21.9	50.14	-	-	74	-23.86	264	112	V
* 11.99951	25.87	VA1T	39.2	-21.9	43.17	54	-10.83	-	-	264	112	V

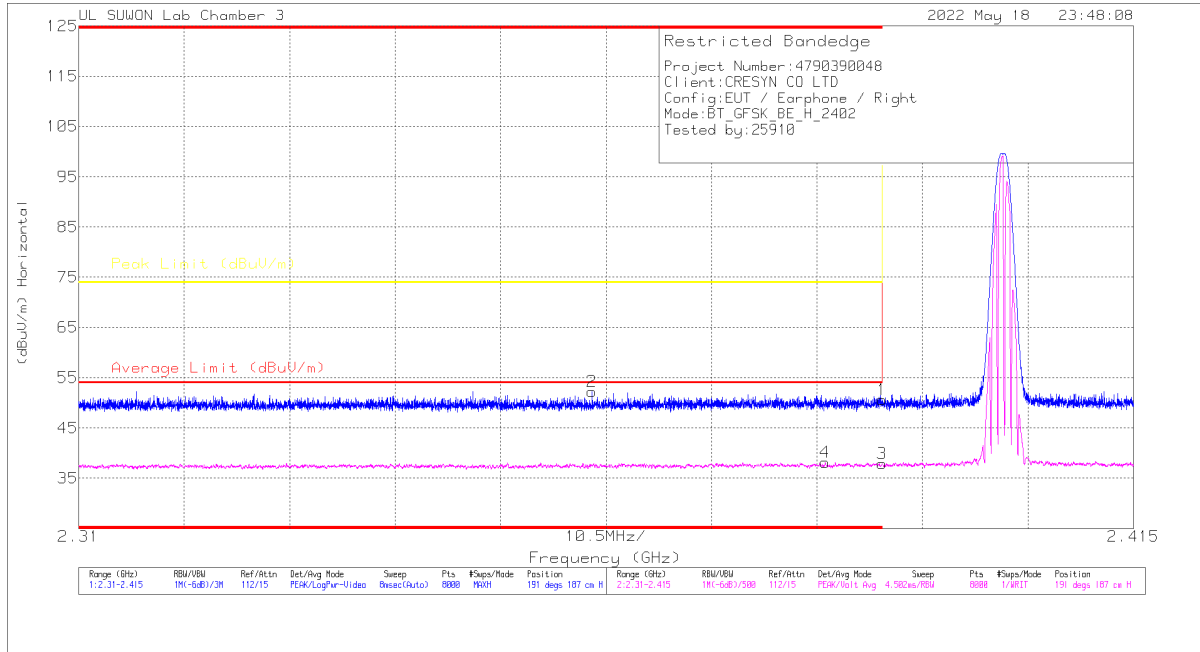
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

- Right

10.2.3. BLUETOOTH BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

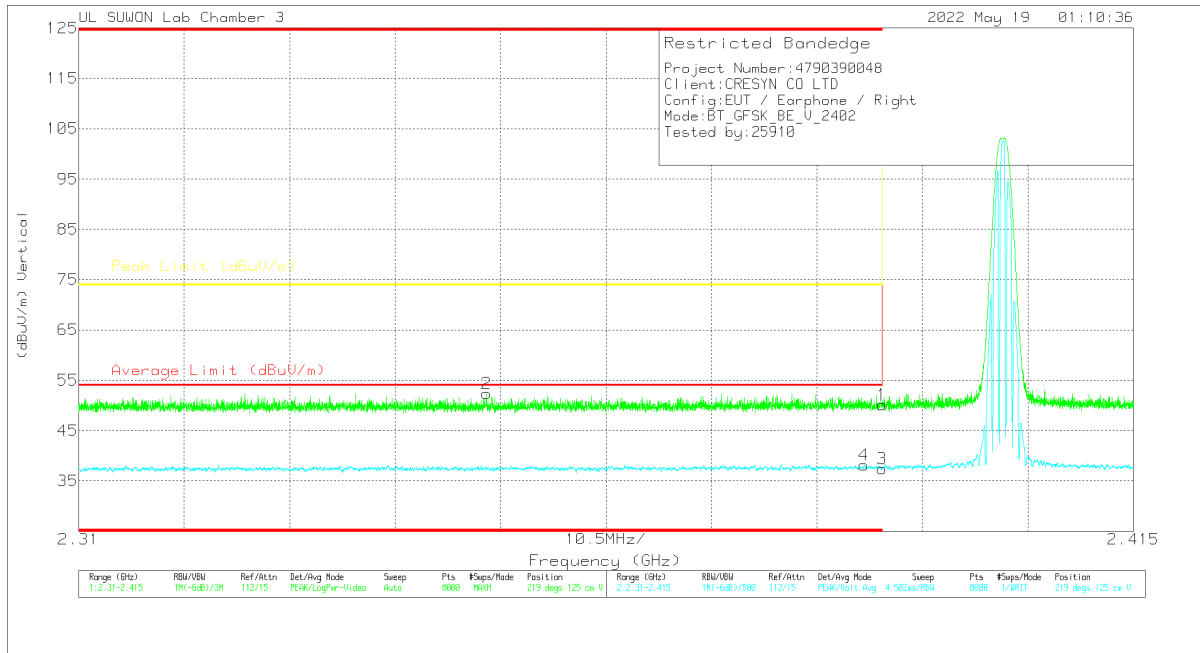


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.61	Pk	32.8	-24.8	50.61	-	-	74	-23.39	191	187	H
2	* 2.36109	44.59	Pk	32.6	-24.9	52.29	-	-	74	-21.71	191	187	H
3	* 2.39	29.9	VA1T	32.8	-24.8	37.9	54	-16.1	-	-	191	187	H
4	* 2.38433	30.39	VA1T	32.7	-24.9	38.19	54	-15.81	-	-	191	187	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



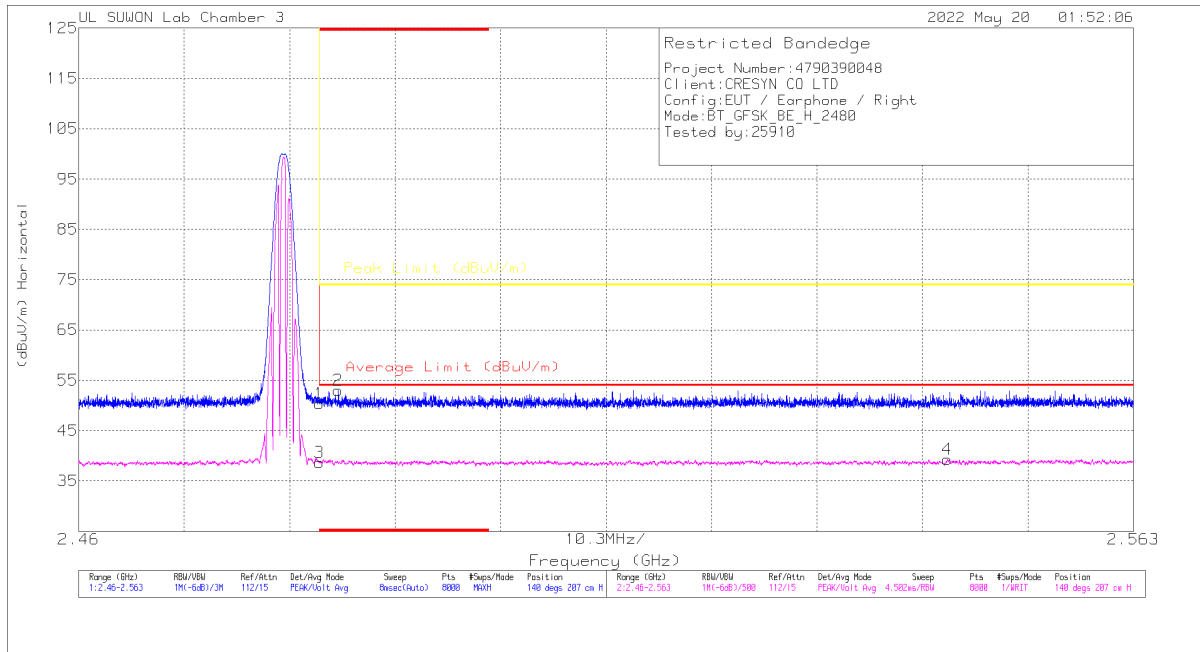
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.1	Pk	32.8	-24.8	50.1	-	-	74	-23.9	219	125	V
2	* 2.3506	44.68	Pk	32.6	-24.9	52.38	-	-	74	-21.62	219	125	V
3	* 2.39	29.47	VA1T	32.8	-24.8	37.47	54	-16.53	-	-	219	125	V
4	* 2.3882	30.14	VA1T	32.8	-24.8	38.14	54	-15.86	-	-	219	125	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**

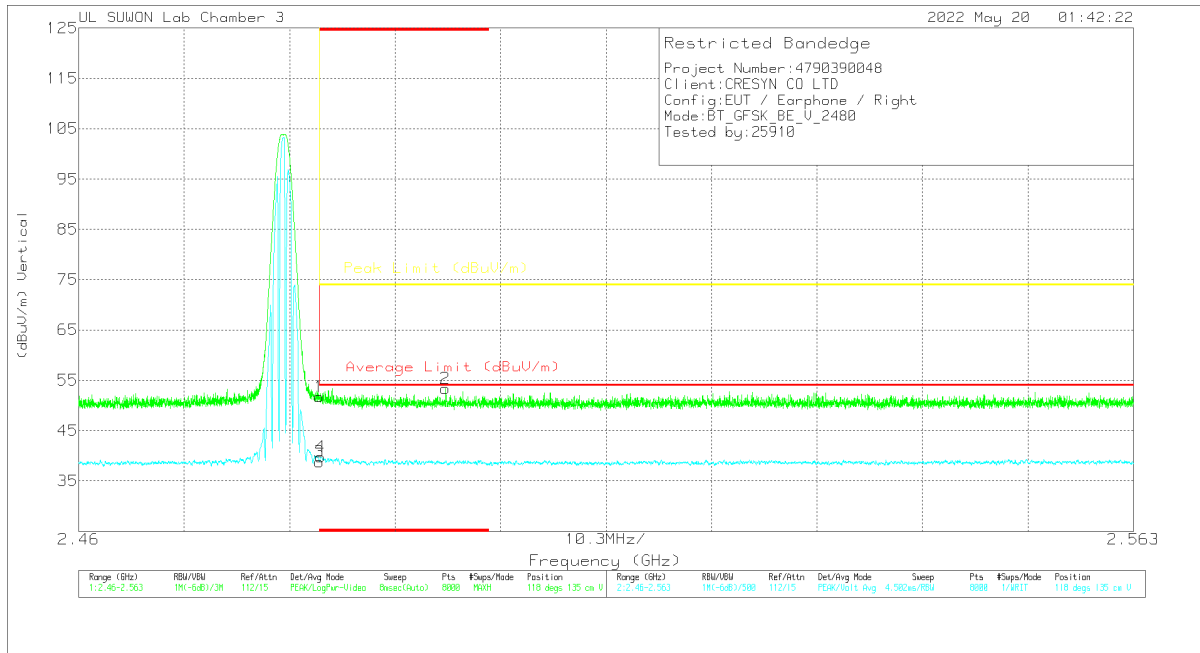


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.21	Pk	32.9	-24.7	50.41	-	-	74	-23.59	140	207	H
2	* 2.48535	44.75	Pk	32.9	-24.7	52.95	-	-	74	-21.05	140	207	H
3	* 2.4835	30.43	VA1T	32.9	-24.7	38.63	54	-15.37	-	-	140	207	H
4	2.54483	31.03	VA1T	32.9	-24.6	39.33	54	-14.67	-	-	140	207	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



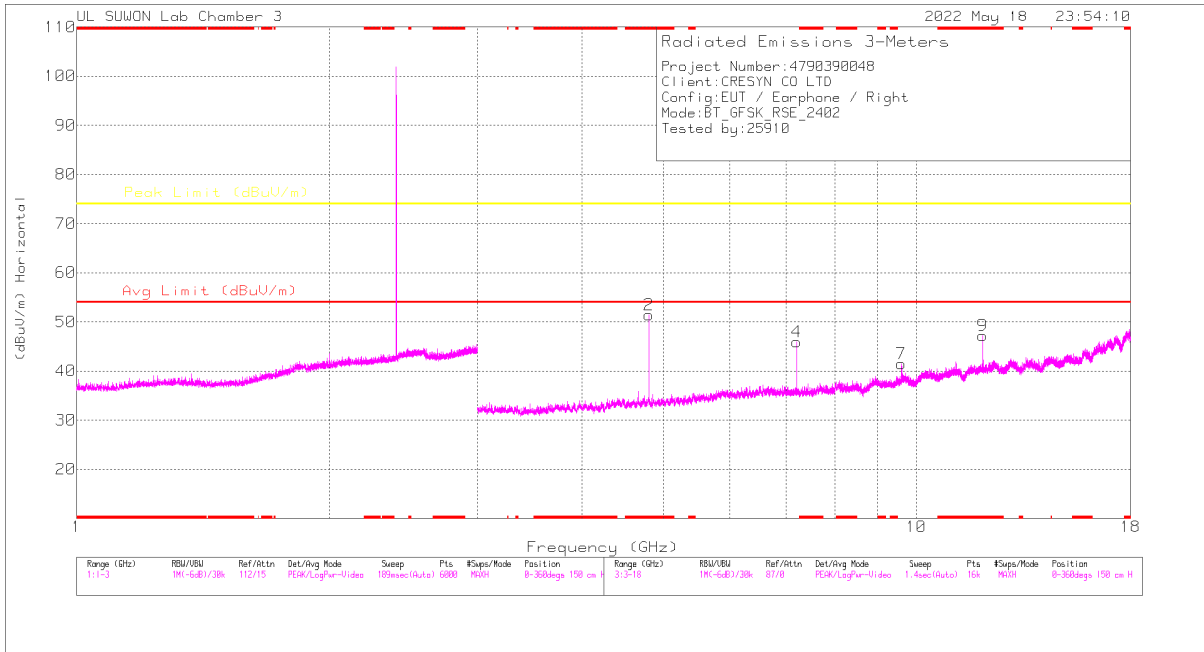
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	43.54	Pk	32.9	-24.7	51.74	-	-	74	-22.26	118	135	V
2	* 2.49579	45.2	Pk	32.9	-24.7	53.4	-	-	74	-20.6	118	135	V
3	* 2.4835	30.64	VA1T	32.9	-24.7	38.84	54	-15.16	-	-	118	135	V
4	* 2.48364	31.6	VA1T	32.9	-24.7	39.8	54	-14.2	-	-	118	135	V

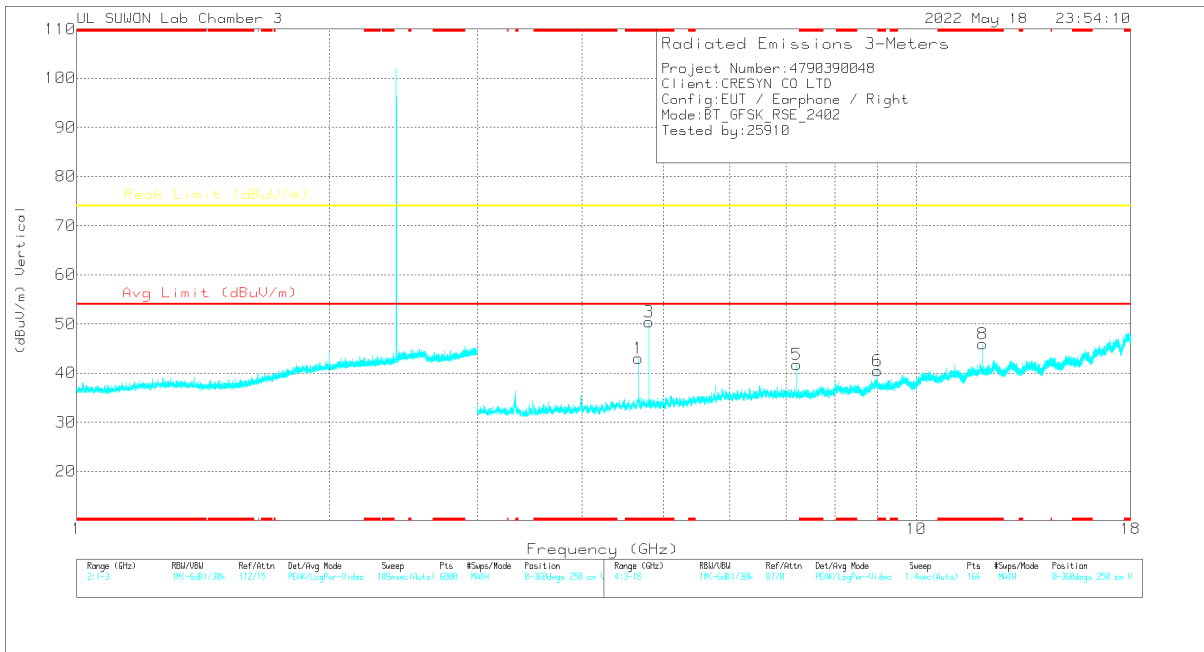
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### HARMONICS AND SPURIOUS EMISSIONS

#### LOW CHANNEL RESULTS



#### HORIZONTAL



#### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

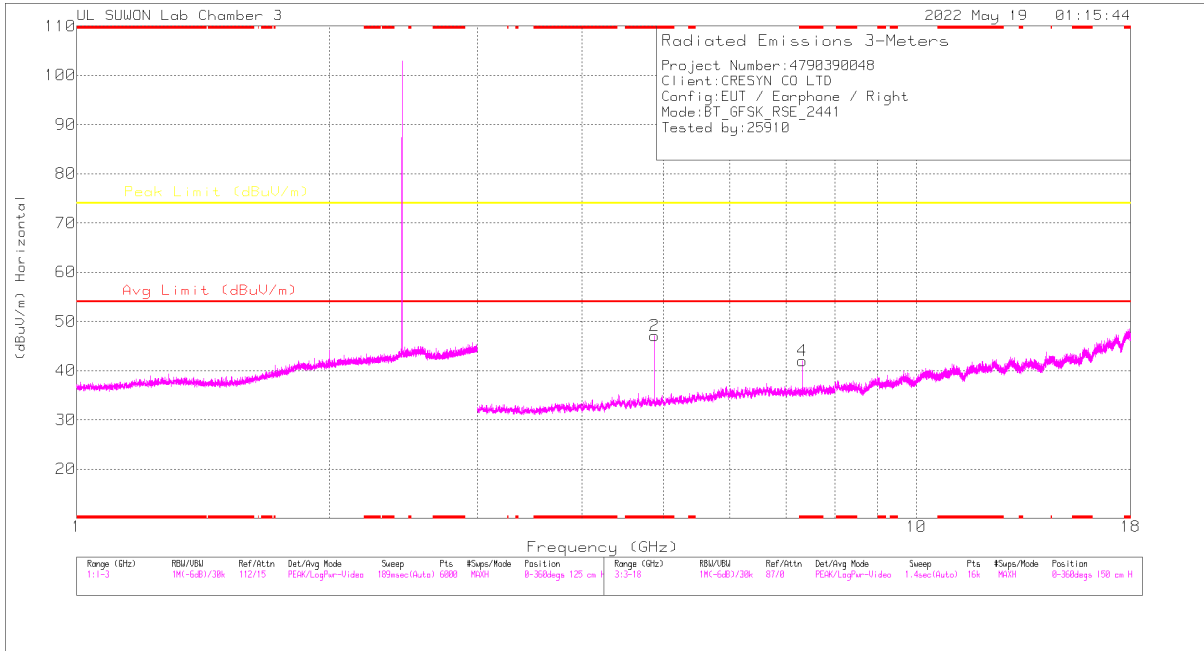


**RADIATED EMISSIONS**

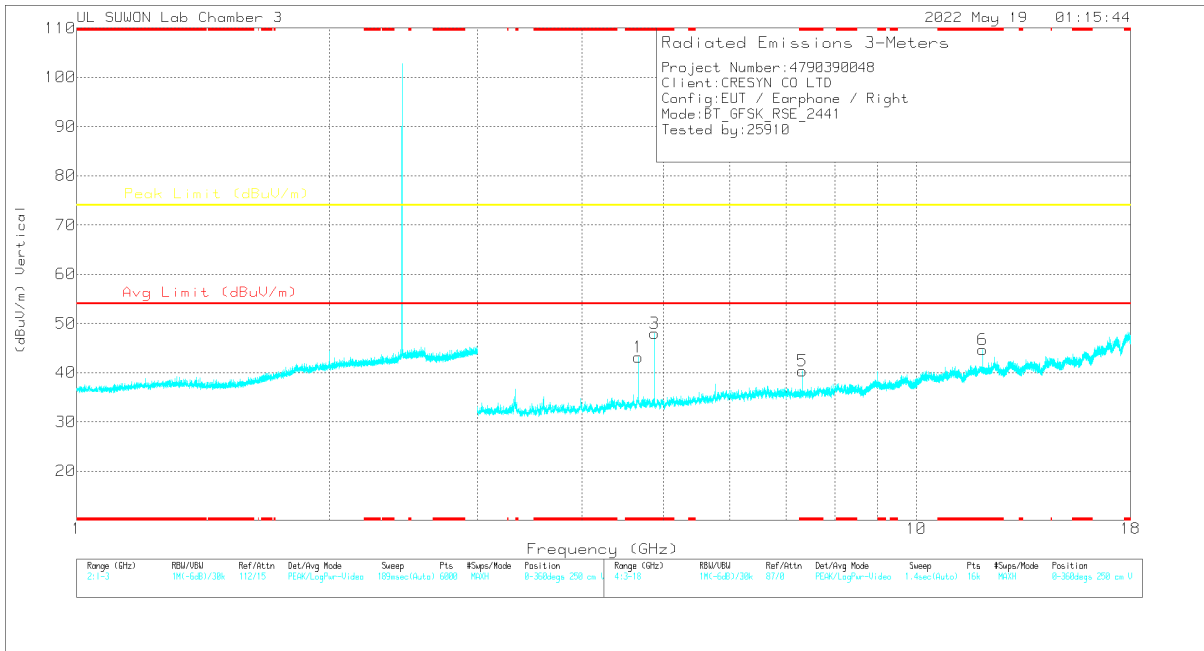
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80375	49.15	PKFH	34.6	-29.9	53.85	-	-	74	-20.15	320	112	H
* 4.80386	44.81	VA1T	34.6	-29.9	49.51	54	-4.49	-	-	320	112	H
7.20554	40.64	PKFH	36.1	-25.6	51.14	-	-	74	-22.86	282	126	H
9.60828	32.66	PKFH	37.3	-21.8	48.16	-	-	74	-25.84	39	100	H
* 12.00931	35.38	PKFH	39.2	-21.9	52.68	-	-	74	-21.32	52	100	H
* 12.00935	24.75	VA1T	39.2	-21.9	42.05	54	-11.95	-	-	52	100	H
* 4.66628	44.49	PKFH	34.5	-30	48.99	-	-	74	-25.01	96	107	V
* 4.66648	37.61	VA1T	34.5	-30	42.11	54	-11.89	-	-	96	107	V
* 4.80407	50.74	PKFH	34.6	-29.9	55.44	-	-	74	-18.56	205	100	V
* 4.80394	45.38	VA1T	34.6	-29.9	50.08	54	-3.92	-	-	205	100	V
7.20554	38.2	PKFH	36.1	-25.6	48.7	-	-	74	-25.3	199	131	V
8.99864	31.42	PKFH	36.8	-22.3	45.92	-	-	74	-28.08	35	120	V
* 11.99946	34.43	PKFH	39.2	-21.9	51.73	-	-	74	-22.27	91	101	V
* 11.99947	26.84	VA1T	39.2	-21.9	44.14	54	-9.86	-	-	91	101	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



### HORIZONTAL



### VERTICAL

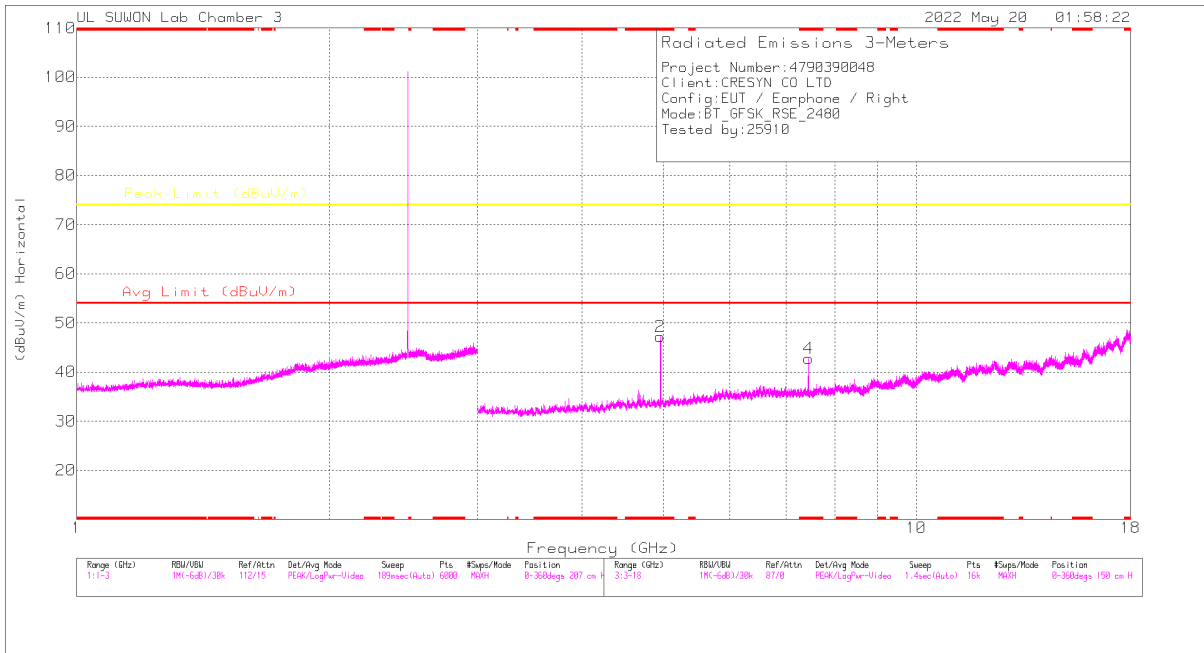
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

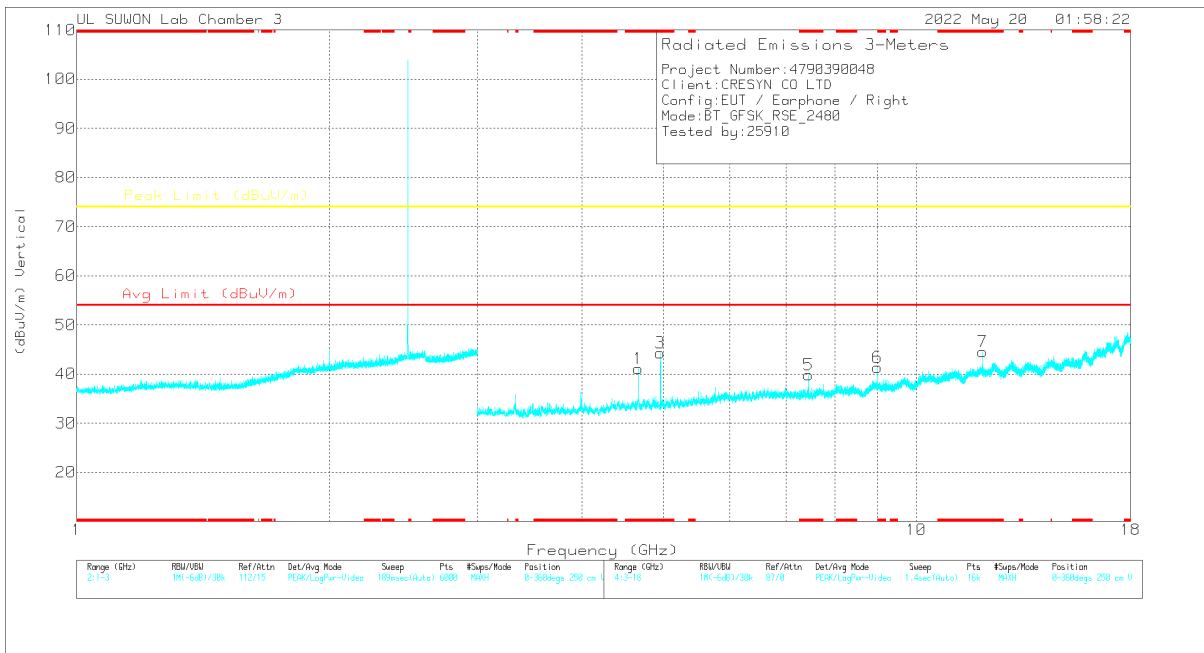
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88229	47.3	PKFH	34.7	-30.7	51.3	-	-	74	-22.7	320	366	H
* 4.88207	42.07	VA1T	34.7	-30.7	46.07	54	-7.93	-	-	320	366	H
* 7.32247	37.9	PKFH	36	-25.1	48.8	-	-	74	-25.2	279	112	H
* 7.32298	30.74	VA1T	36	-25.1	41.64	54	-12.36	-	-	279	112	H
* 4.66656	44.18	PKFH	34.5	-30	48.68	-	-	74	-25.32	98	100	V
* 4.6664	37.9	VA1T	34.5	-30	42.4	54	-11.6	-	-	98	100	V
* 4.88185	45.41	PKFH	34.7	-30.7	49.41	-	-	74	-24.59	159	105	V
* 4.8821	37.22	VA1T	34.7	-30.7	41.22	54	-12.78	-	-	159	105	V
* 7.32231	34.85	PKFH	36	-25.1	45.75	-	-	74	-28.25	211	392	V
* 7.32284	24.39	VA1T	36	-25.1	35.29	54	-18.71	-	-	211	392	V
* 11.9996	32.94	PKFH	39.2	-21.9	50.24	-	-	74	-23.76	266	106	V
* 11.9994	25.98	VA1T	39.2	-21.9	43.28	54	-10.72	-	-	266	106	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



### HORIZONTAL



### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

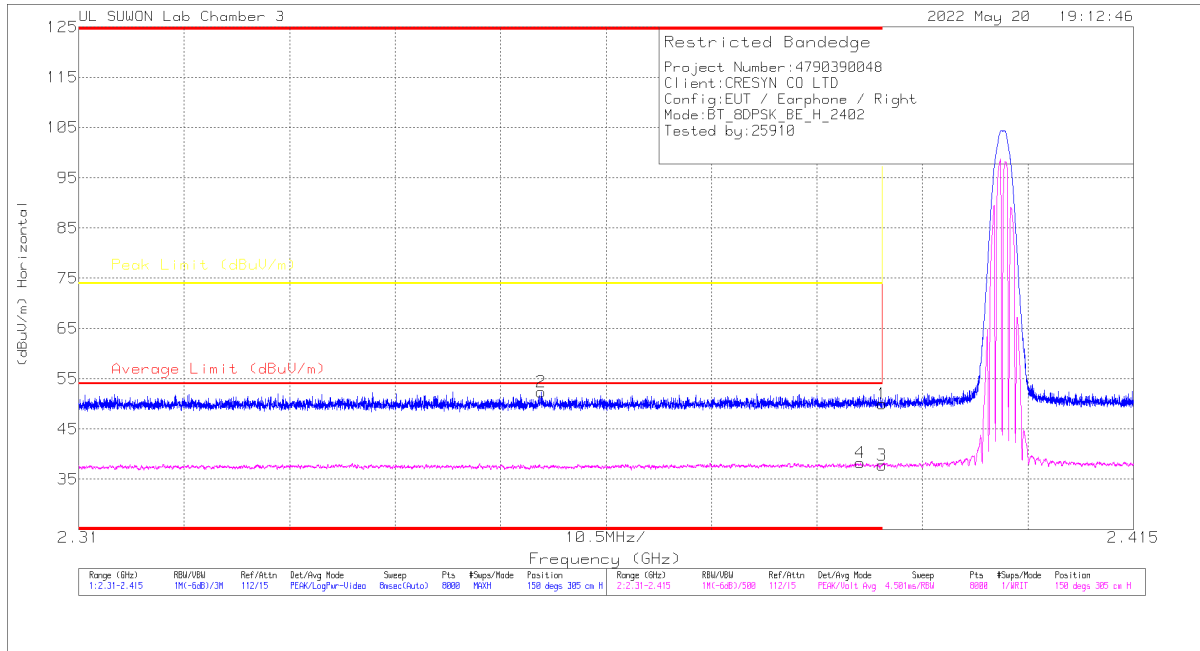
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96019	46.6	PKFH	34.7	-30.4	50.9	-	-	74	-23.1	285	116	H
* 4.96005	41.9	VA1T	34.7	-30.4	46.2	54	-7.8	-	-	285	116	H
* 7.4405	38.26	PKFH	36	-24.8	49.46	-	-	74	-24.54	308	104	H
* 7.43996	30.15	VA1T	36	-24.8	41.35	54	-12.65	-	-	308	104	H
* 4.66671	44.22	PKFH	34.5	-30	48.72	-	-	74	-25.28	60	100	V
* 4.66636	37.04	VA1T	34.5	-30	41.54	54	-12.46	-	-	60	100	V
* 4.95985	46	PKFH	34.7	-30.4	50.3	-	-	74	-23.7	167	104	V
* 4.96	39.01	VA1T	34.7	-30.4	43.31	54	-10.69	-	-	167	104	V
* 7.43954	36	PKFH	36	-24.8	47.2	-	-	74	-26.8	212	100	V
* 7.44008	26.09	VA1T	36	-24.8	37.29	54	-16.71	-	-	212	100	V
* 9.00003	31.96	PKFH	36.8	-22.3	46.46	-	-	74	-27.54	358	121	V
* 9000	20.2	VA1T	36.8	-22.3	34.7	54	-19.3	-	-	358	121	V
* 11.99922	34.6	PKFH	39.2	-21.9	51.9	-	-	74	-22.1	103	100	V
* 11.99948	26.77	VA1T	39.2	-21.9	44.07	54	-9.93	-	-	103	100	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

## 10.2.4. BLUETOOTH ENHANCED DATA RATE 8DPSK MODULATION

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT

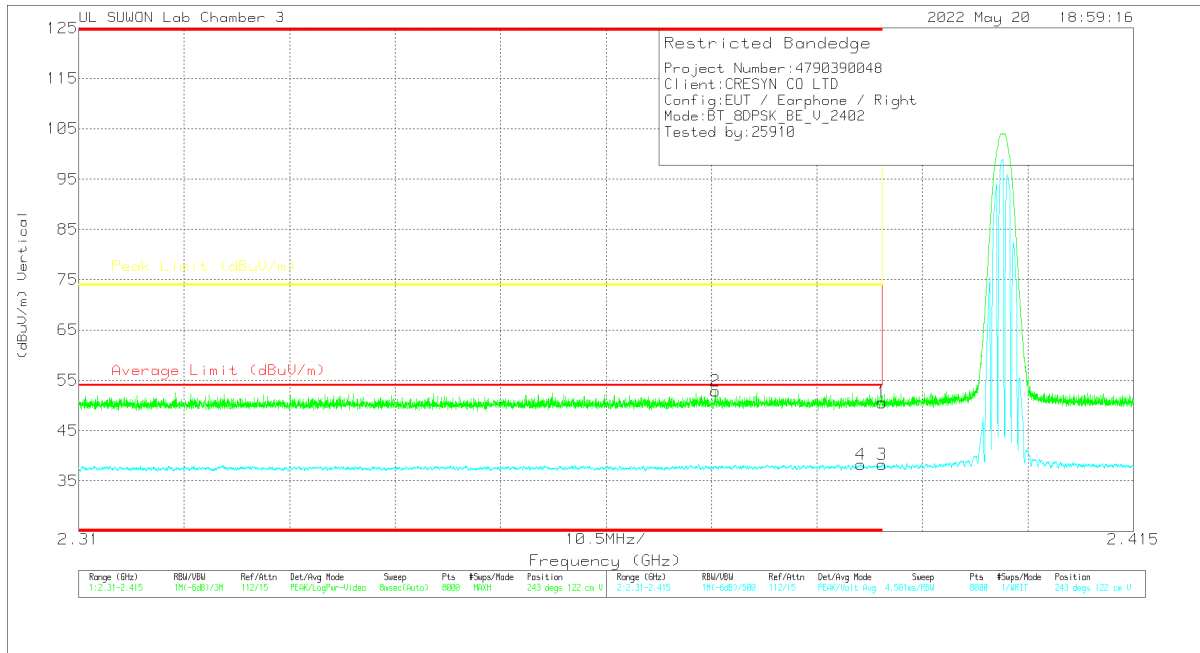


#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.97	Pk		-24.8	49.97	-	-	74	-24.03	150	305	H
2	* 2.35604	44.72	Pk		-24.9	52.42	-	-	74	-21.58	150	305	H
3	* 2.39	29.81	VA1T		-24.8	37.81	54	-16.19	-	-	150	305	H
4	* 2.38779	30.31	VA1T		-24.8	38.31	54	-15.69	-	-	150	305	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



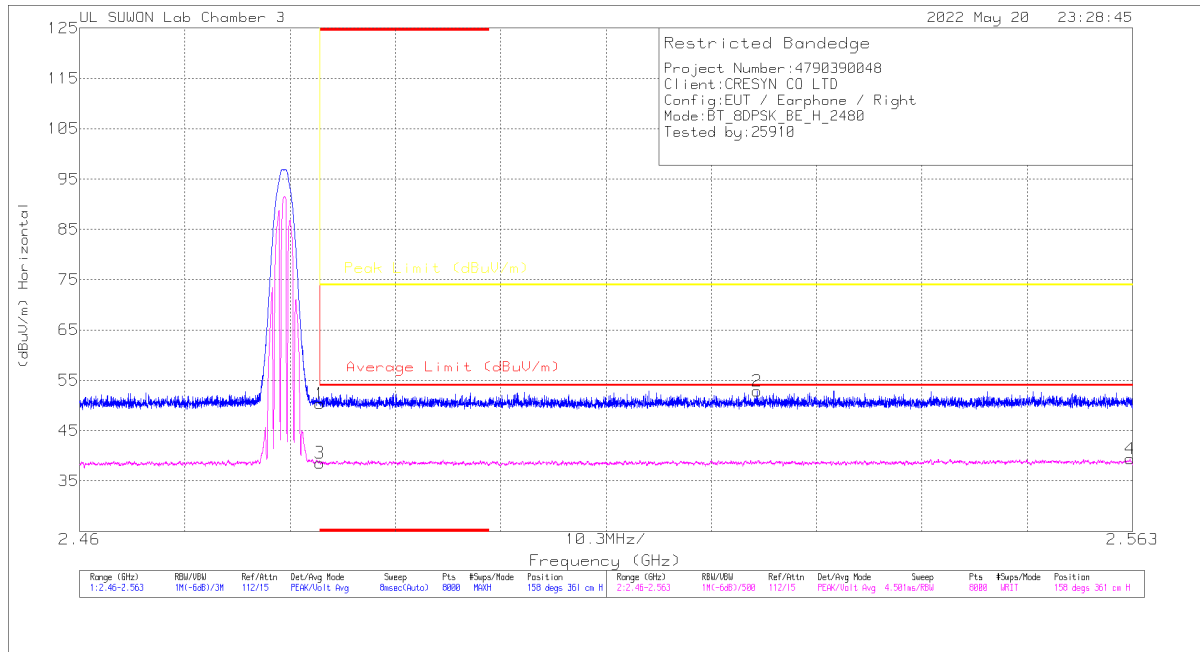
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.57	Pk	32.8	-24.8	50.57	-	-	74	-23.43	243	122	V
2	* 2.37336	45.12	Pk	32.7	-24.9	52.92	-	-	74	-21.08	243	122	V
3	* 2.39	30.25	VA1T	32.8	-24.8	36.25	54	-15.75	-	-	243	122	V
4	* 2.38784	30.3	VA1T	32.8	-24.8	38.3	54	-15.7	-	-	243	122	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**



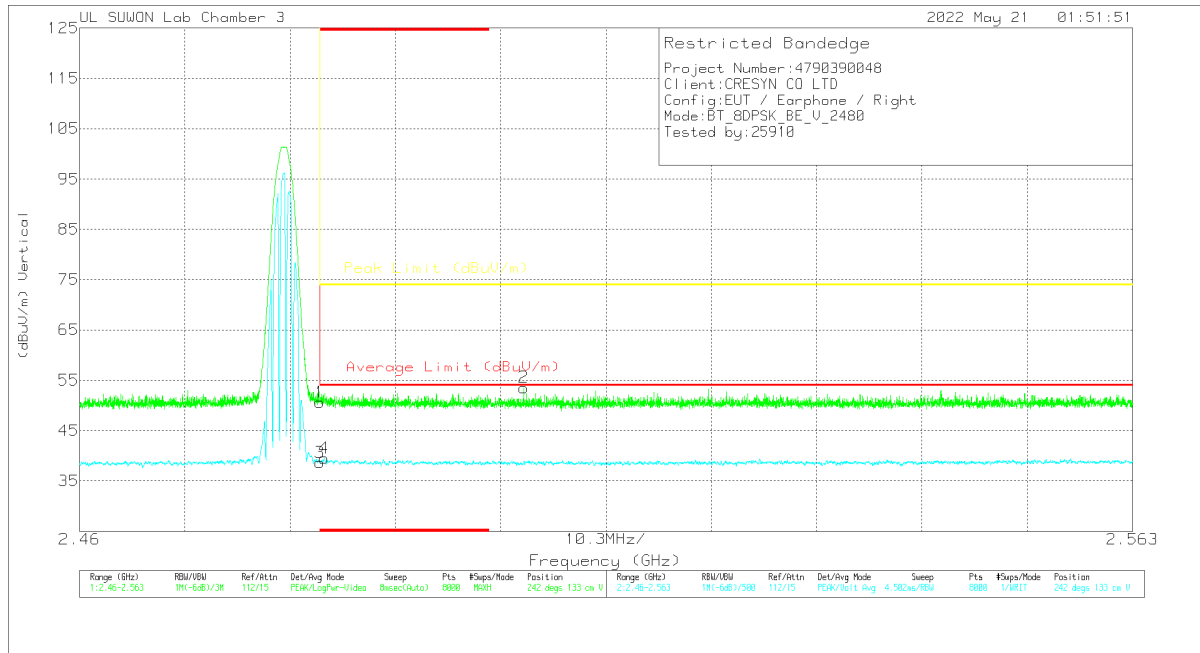
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.23	Pk		-24.7	50.43	-	-	74	-23.57	158	361	H
2	2.5263	44.62	Pk		-24.6	52.92	-	-	74	-21.08	158	361	H
3	* 2.4835	30.4	VA1T		-24.7	38.6	54	-15.4	-	-	158	361	H
4	2.56275	31.16	VA1T		-24.7	39.36	54	-14.64	-	-	158	361	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



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.46	Pk	32.9	-24.7	50.66	-	-	74	-23.34	242	133	V
2	2.50346	45.36	Pk	32.9	-24.7	53.56	-	-	74	-20.44	242	133	V
3	* 2.4835	30.45	VA1T	32.9	-24.7	38.65	54	-15.35	-	-	242	133	V
4	* 2.48393	31.38	VA1T	32.9	-24.7	39.58	54	-14.42	-	-	242	133	V

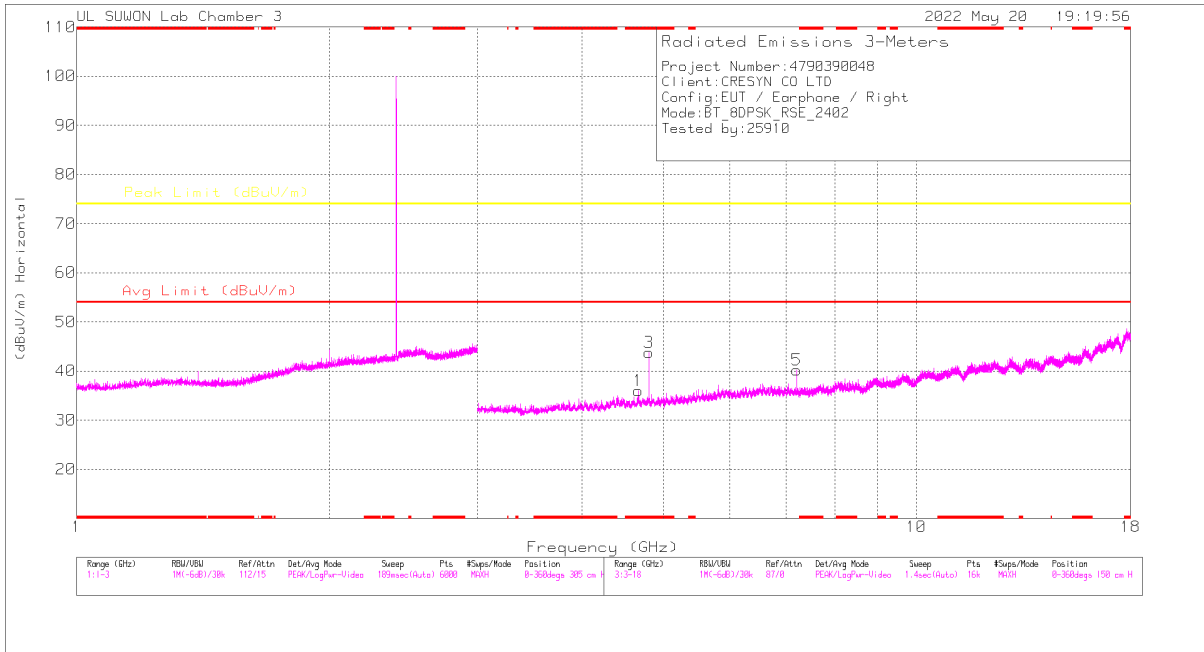
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

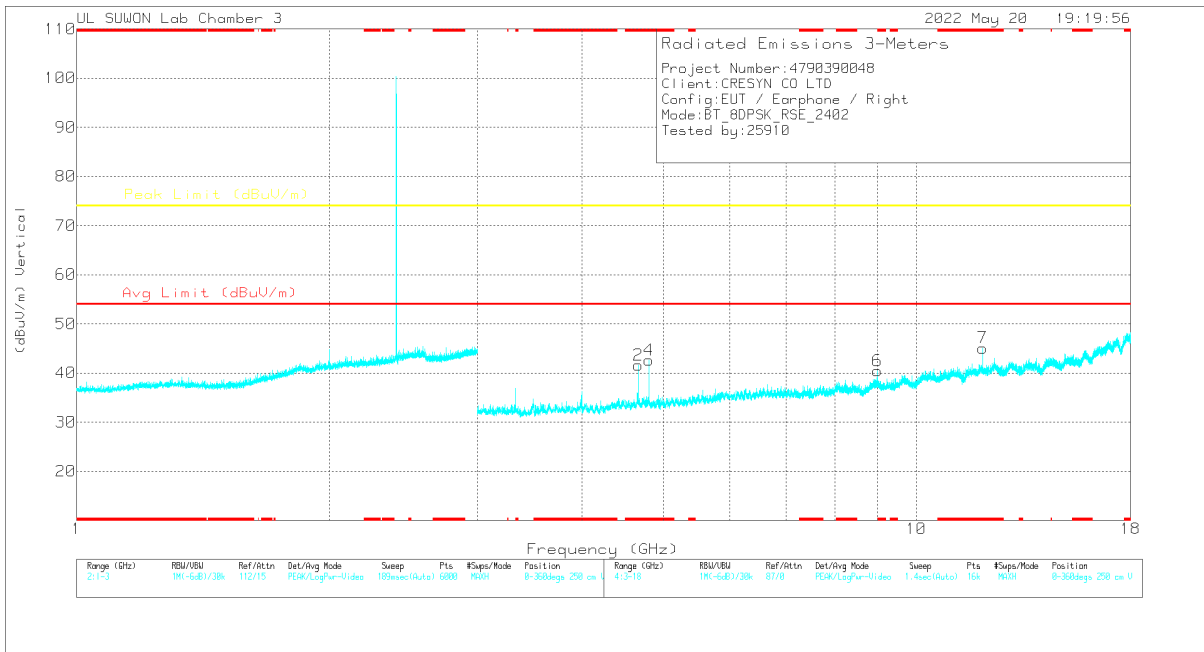
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

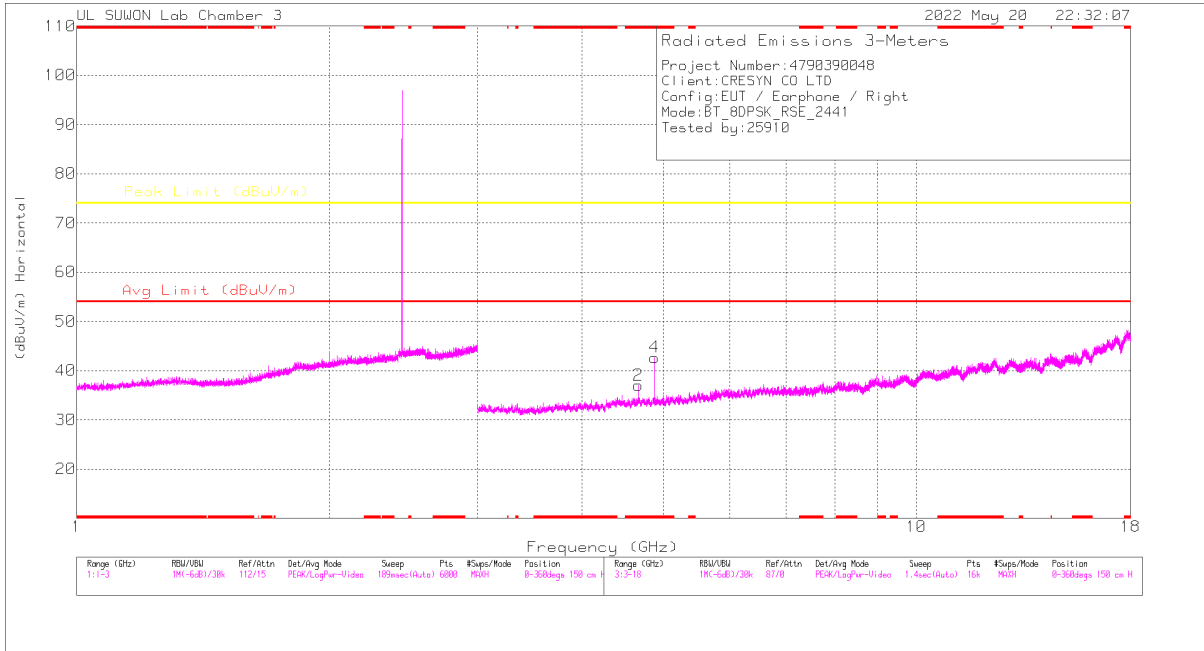
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

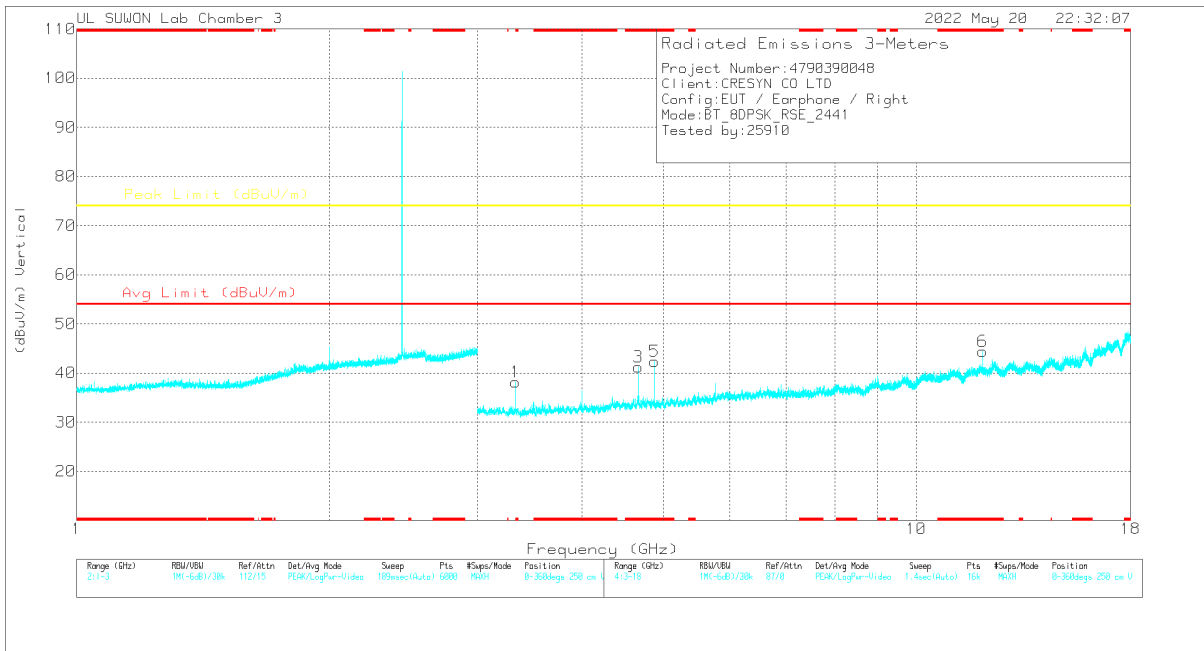
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.66586	39.76	PKFH	34.5	-30	44.26	-	-	74	-29.74	179	100	H
* 4.66645	29.24	VA1T	34.5	-30	33.74	54	-20.26	-	-	179	100	H
* 4.8039	46.36	PKFH	34.6	-29.9	51.06	-	-	74	-22.94	208	212	H
* 4.80389	36.16	VA1T	34.6	-29.9	40.86	54	-13.14	-	-	208	212	H
7.20562	36.78	PKFH	36.1	-25.6	47.28	-	-	74	-26.72	252	103	H
* 4.66669	44.53	PKFH	34.5	-30	49.03	-	-	74	-24.97	270	103	V
* 4.66654	37.12	VA1T	34.5	-30	41.62	54	-12.38	-	-	270	103	V
* 4.80419	45.95	PKFH	34.6	-29.9	50.65	-	-	74	-23.35	208	101	V
* 4.80391	36.85	VA1T	34.6	-29.9	41.55	54	-12.45	-	-	208	101	V
* 9	31.3	PKFH	36.8	-22.3	45.8	-	-	74	-28.2	204	107	V
* 9	20.97	VA1T	36.8	-22.3	35.47	54	-18.53	-	-	204	107	V
* 11.99951	33.4	PKFH	39.2	-21.9	50.7	-	-	74	-23.3	106	106	V
* 11.99943	25.42	VA1T	39.2	-21.9	42.72	54	-11.28	-	-	106	106	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



### HORIZONTAL



### VERTICAL

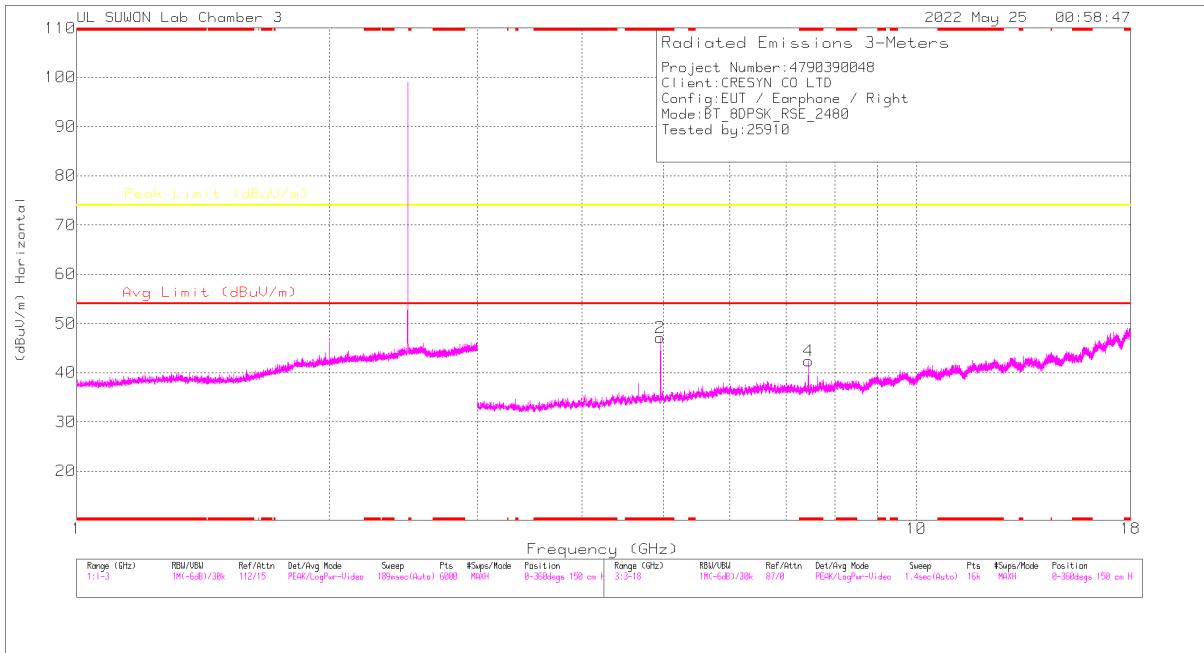
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

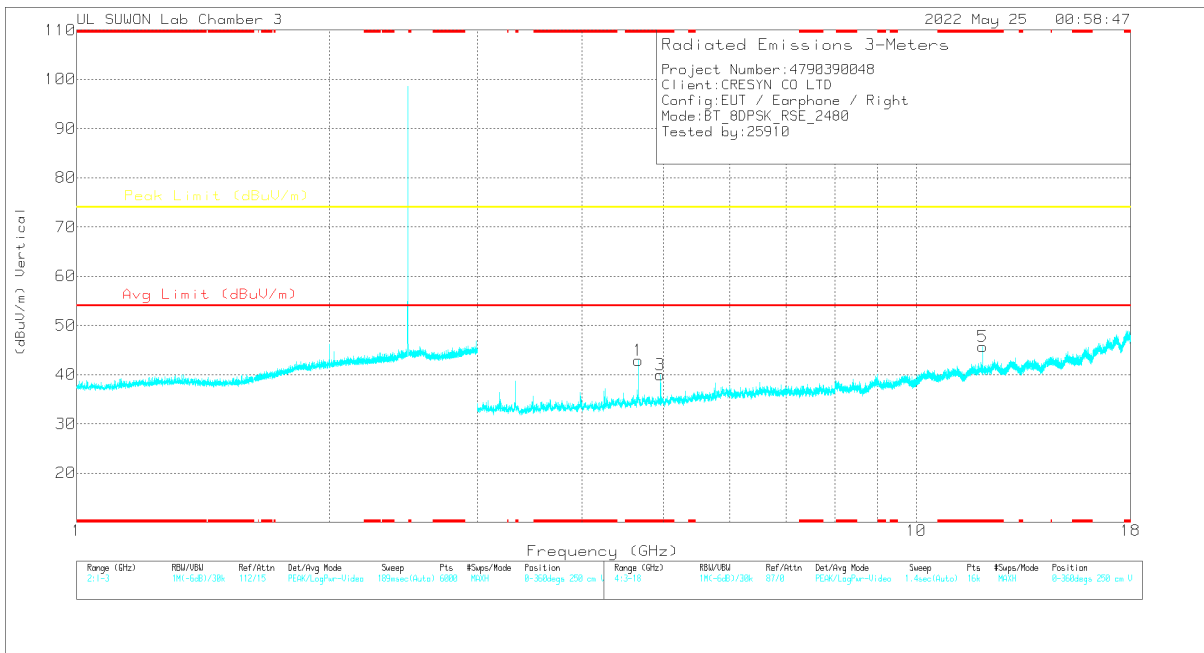
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.66636	39.98	PKFH	34.5	-30	44.48	-	-	74	-29.52	201	108	H
* 4.66634	30.62	VA1T	34.5	-30	35.12	54	-18.88	-	-	201	108	H
* 4.88235	45.73	PKFH	34.7	-30.7	49.73	-	-	74	-24.27	249	269	H
* 4.88186	34.29	VA1T	34.7	-30.7	38.29	54	-15.71	-	-	249	269	H
* 3.33326	42.92	PKFH	33.3	-32.6	43.62	-	-	74	-30.38	106	103	V
* 3.33323	35.69	VA1T	33.3	-32.6	36.39	54	-17.61	-	-	106	103	V
* 4.66659	43.5	PKFH	34.5	-30	48	-	-	74	-26	259	103	V
* 4.66644	36.51	VA1T	34.5	-30	41.01	54	-12.99	-	-	259	103	V
* 4.88174	44.15	PKFH	34.7	-30.7	48.15	-	-	74	-25.85	219	144	V
* 4.8821	34.55	VA1T	34.7	-30.7	38.55	54	-15.45	-	-	219	144	V
* 11.99953	33.3	PKFH	39.2	-21.9	50.6	-	-	74	-23.4	105	115	V
* 11.99945	25.63	VA1T	39.2	-21.9	42.93	54	-11.07	-	-	105	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



### HORIZONTAL



### VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

**RADIATED EMISSIONS**

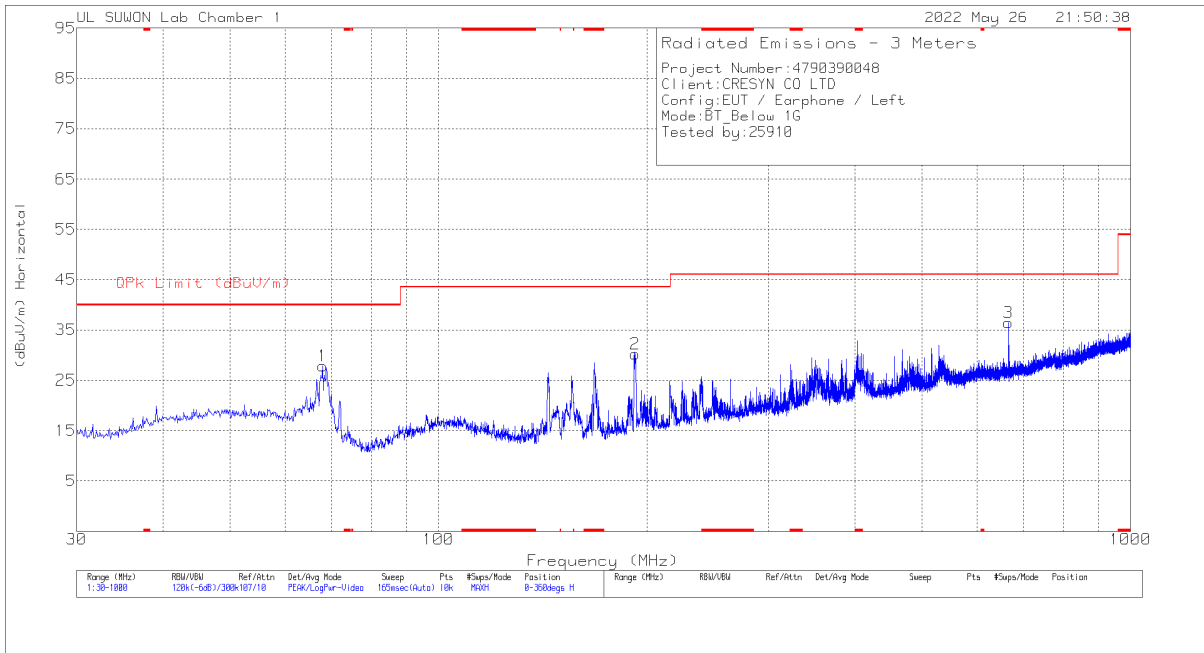
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0021895 7	3GHz_HP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96041	46.84	PKFH	34.7	-30.4	51.14	-	-	74	-22.86	268	115	H
* 4.95992	36.6	VA1T	34.7	-30.4	40.9	54	-13.1	-	-	268	115	H
* 7.43972	36.65	PKFH	36	-24.8	47.85	-	-	74	-26.15	294	100	H
* 7.43972	23.7	VA1T	36	-24.8	34.9	54	-19.1	-	-	294	100	H
* 4.66657	39.5	PKFH	34.5	-30	44	-	-	74	-30	161	122	H
* 4.66651	30.87	VA1T	34.5	-30	35.37	54	-18.63	-	-	161	122	H
* 4.96026	47.23	PKFH	34.7	-30.4	51.53	-	-	74	-22.47	268	115	H
* 4.95999	36.23	VA1T	34.7	-30.4	40.53	54	-13.47	-	-	268	115	H
* 12.00003	32.1	PKFH	39.2	-21.9	49.4	-	-	74	-24.6	292	102	H
* 11.9994	22.22	VA1T	39.2	-21.9	39.52	54	-14.48	-	-	292	102	H

\* - 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

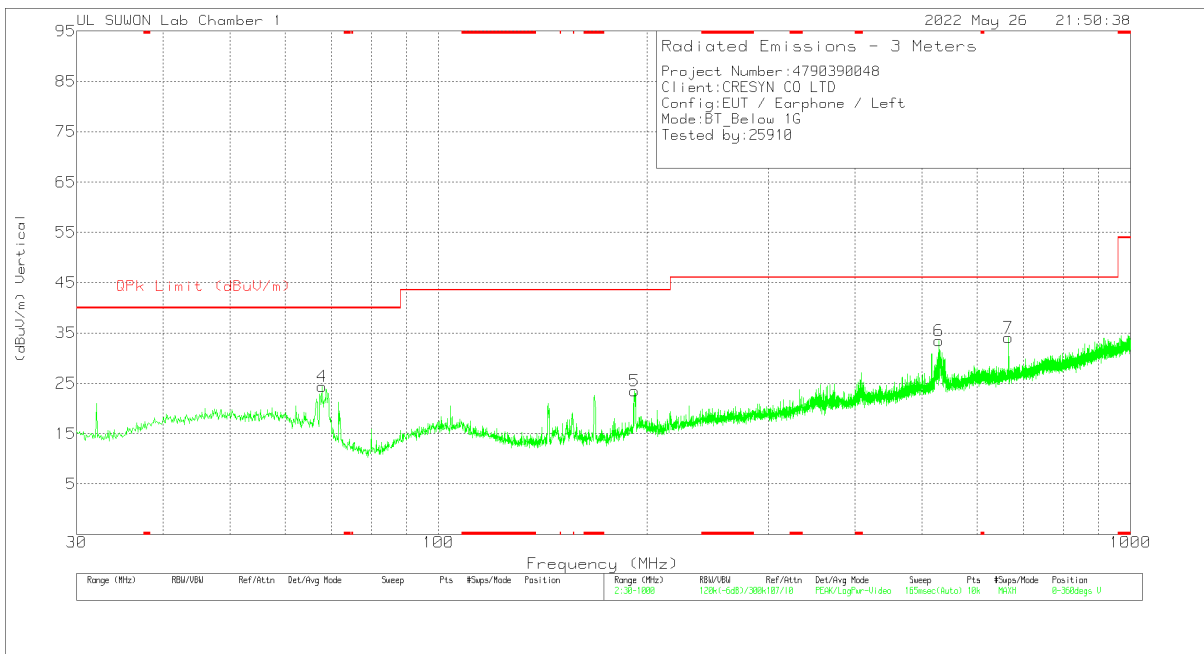
### 10.3. WORST CASE BELOW 1 GHZ

- Left

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



HORIZONTAL



VERTICAL



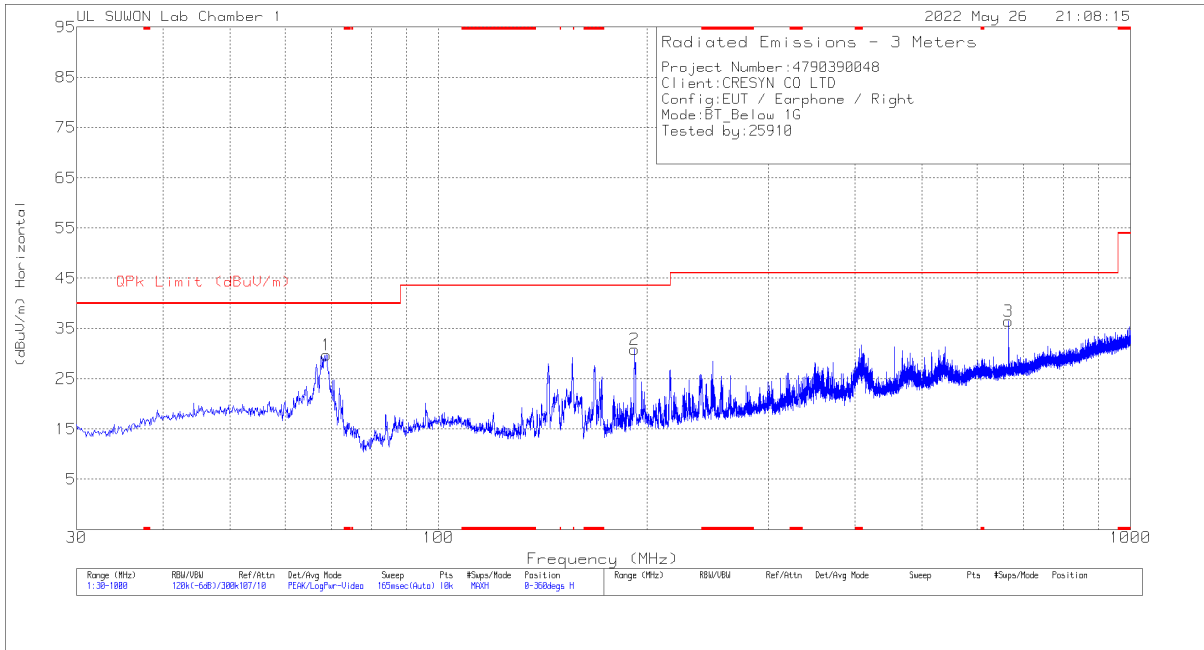
**Below 1GHz Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	68.024	42.33	Pk	16.2	-30.7	27.83	40	-12.17	0-360	200	H
2	192.4265	42.6	Pk	16.9	-29.3	30.2	43.52	-13.32	0-360	100	H
3	666.708	38.01	Pk	25.4	-26.9	36.51	46.02	-9.51	0-360	100	H
4	67.83	38.62	Pk	16.3	-30.6	24.32	40	-15.68	0-360	400	V
5	191.99	36.1	Pk	16.8	-29.4	23.5	43.52	-20.02	0-360	200	V
6	527.998	37.58	Pk	23.4	-27.5	33.48	46.02	-12.54	0-360	200	V
7	666.708	35.54	Pk	25.4	-26.9	34.04	46.02	-11.98	0-360	300	V

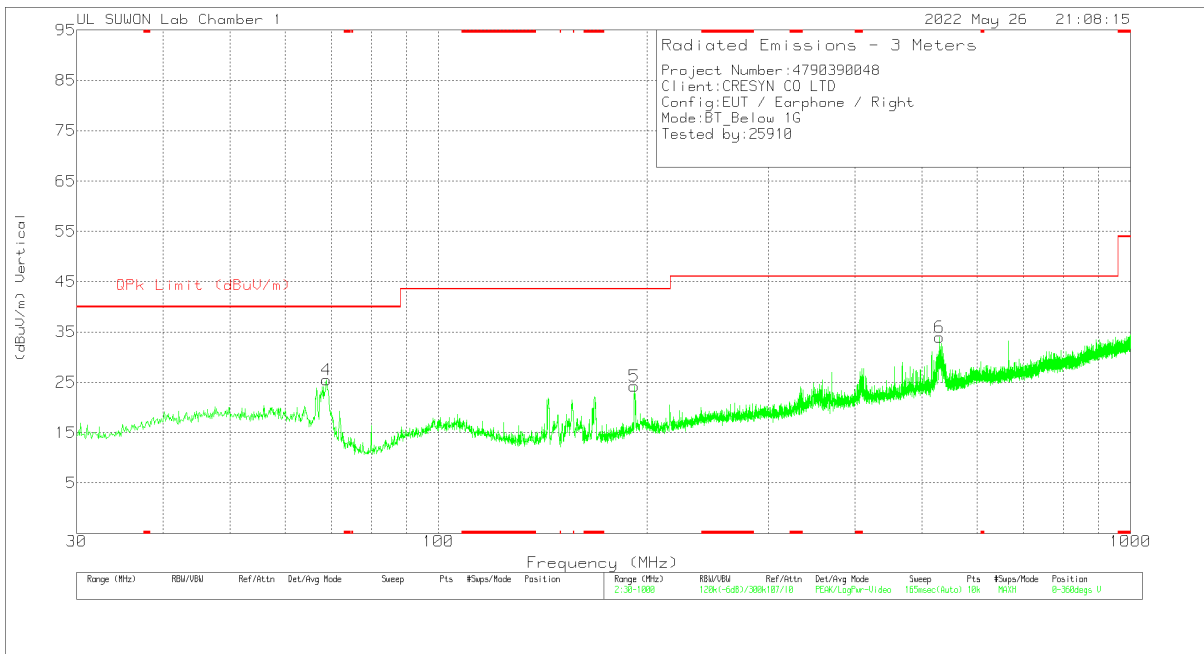
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector

- Right

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



**HORIZONTAL**



**VERTICAL**

**Below 1GHz Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	68.897	44.59	Pk	15.8	-30.7	29.69	40	-10.31	0-360	200	H
2	191.99	43.46	Pk	16.8	-29.4	30.86	43.52	-12.66	0-360	100	H
3	666.708	37.96	Pk	25.4	-26.9	36.46	46.02	-9.56	0-360	100	H
4	68.897	40.44	Pk	15.8	-30.7	25.54	40	-14.46	0-360	400	V
5	191.796	36.69	Pk	16.8	-29.3	24.19	43.52	-19.33	0-360	200	V
6	529.938	38.04	Pk	23.4	-27.5	33.94	46.02	-12.08	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-GEN[8.8]

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	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: N/P

**Note. The AC power line test was not performed because the EUT does not operate Bluetooth mode while charging.**

## END OF TEST REPORT