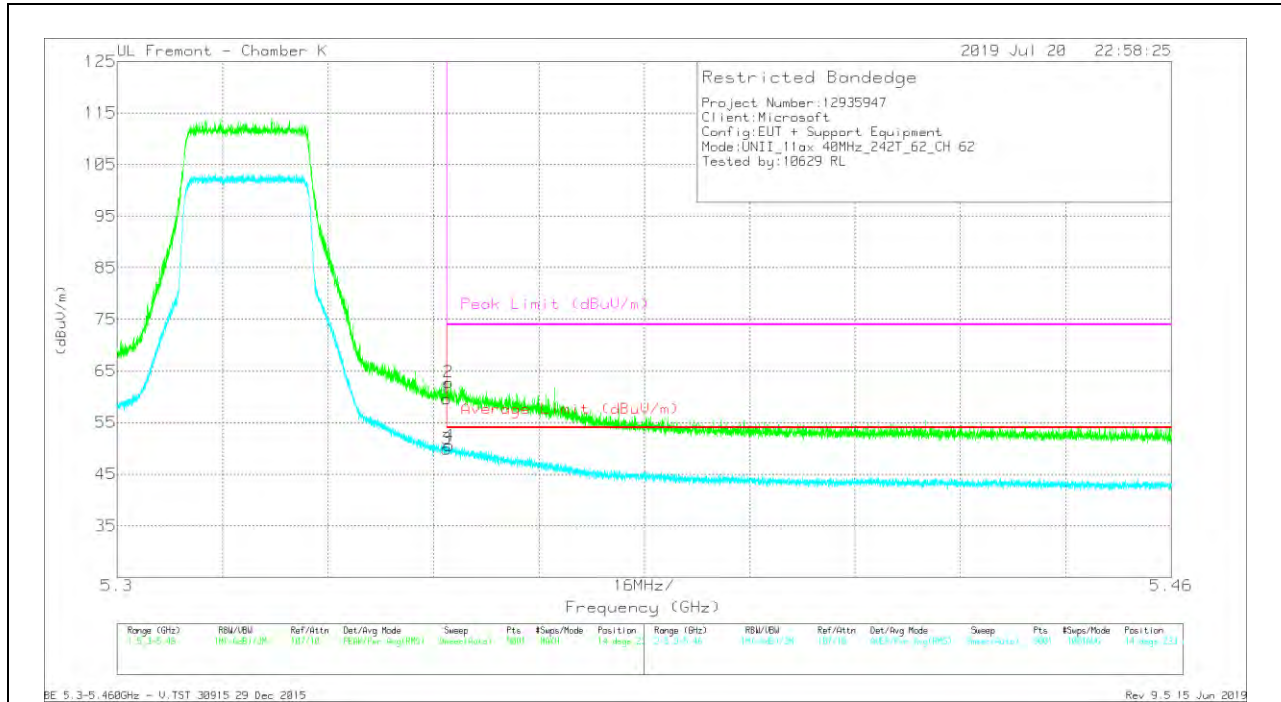


VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	45.14	PK	34.4	-19.9	0	59.64	-	-	74	-14.36	14	233	V
2	* 5.35029	48.3	PK	34.4	-19.9	0	62.8	-	-	74	-11.2	14	233	V
3	* 5.35001	34.58	RMS	34.4	-19.9	0	49.08	54	-4.92	-	-	14	233	V
4	* 5.35035	35.24	RMS	34.4	-19.9	0	49.74	54	-4.26	-	-	14	233	V

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

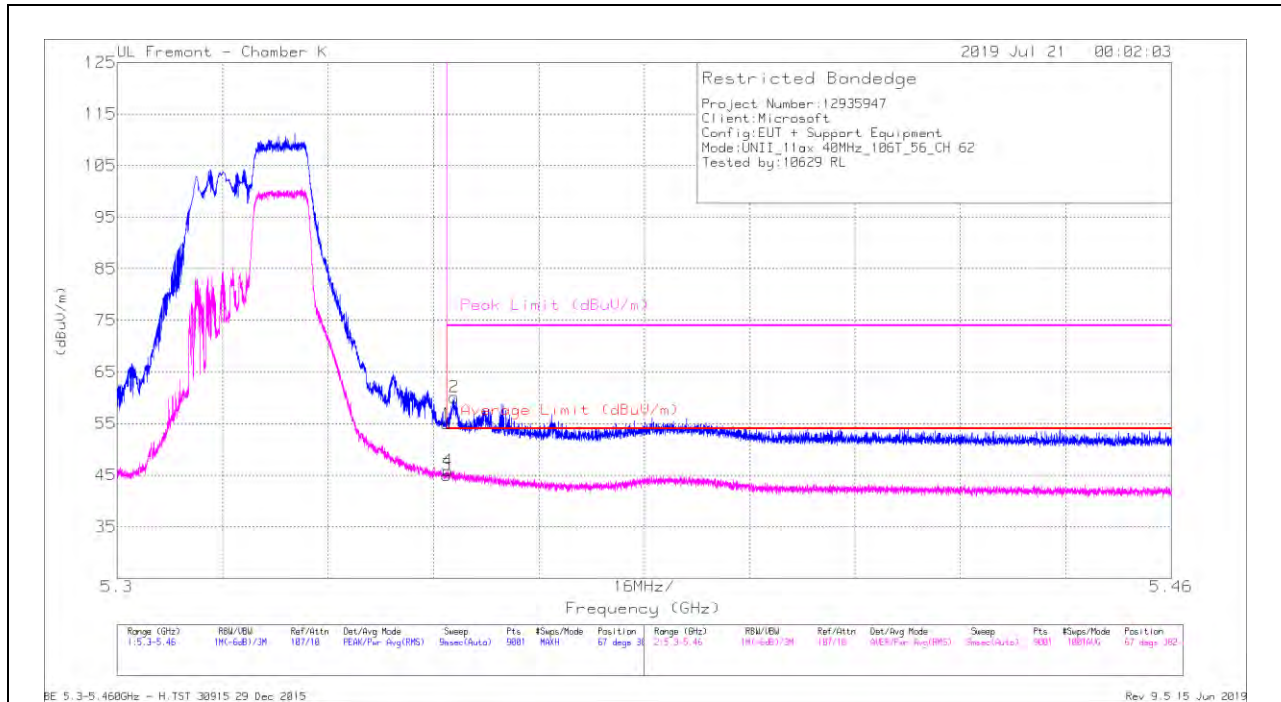
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 106-Tones, RU Index 56

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

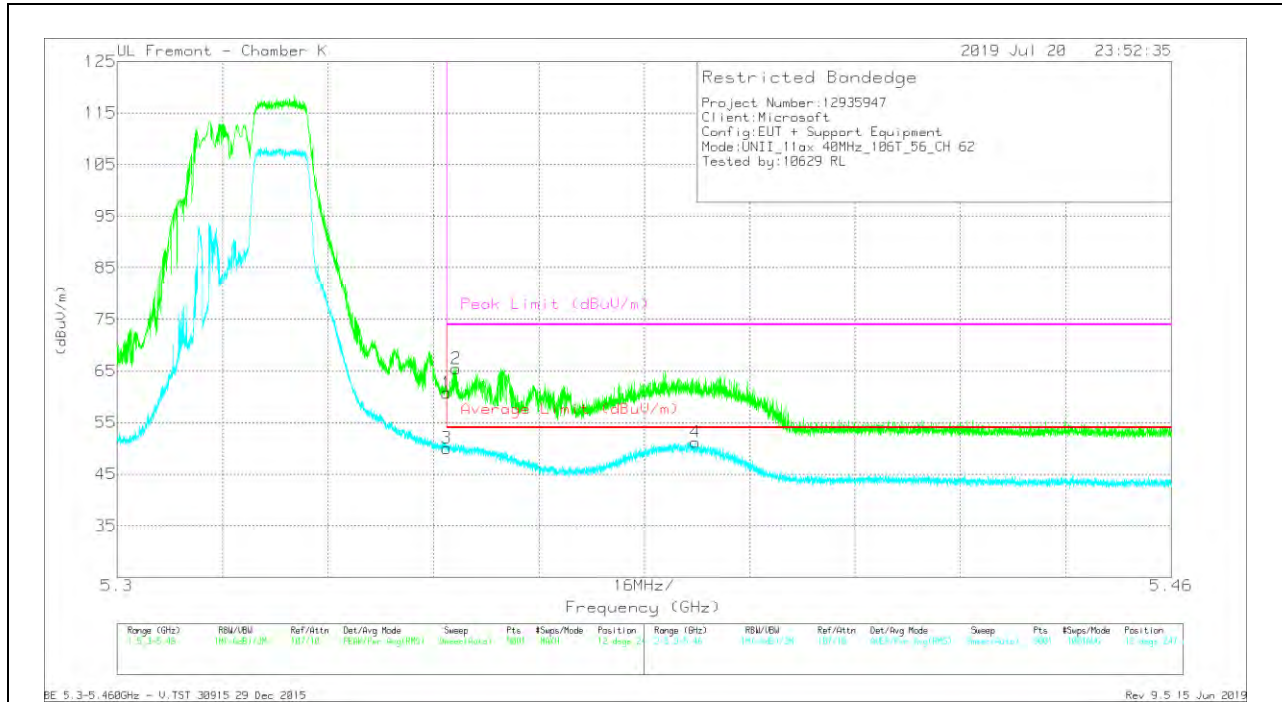
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	40.44	Pk	34.4	-19.9	0	54.94	-	-	74	-19.06	67	382	H
2	* 5.35118	45.63	Pk	34.4	-19.9	0	60.13	-	-	74	-13.87	67	382	H
3	* 5.35001	29.71	RMS	34.4	-19.9	0	44.21	54	-9.79	-	-	67	382	H
4	* 5.35019	30.53	RMS	34.4	-19.9	0	45.03	54	-8.97	-	-	67	382	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	46.24	PK	34.4	-19.9	0	60.74	-	-	74	-13.26	12	247	V
2	* 5.35143	50.93	PK	34.4	-19.9	0	65.43	-	-	74	-8.57	12	247	V
3	* 5.35001	34.74	RMS	34.4	-19.9	0	49.24	54	-4.76	-	-	12	247	V
4	* 5.38777	35.79	RMS	34.4	-19.8	0	50.39	54	-3.61	-	-	12	247	V

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

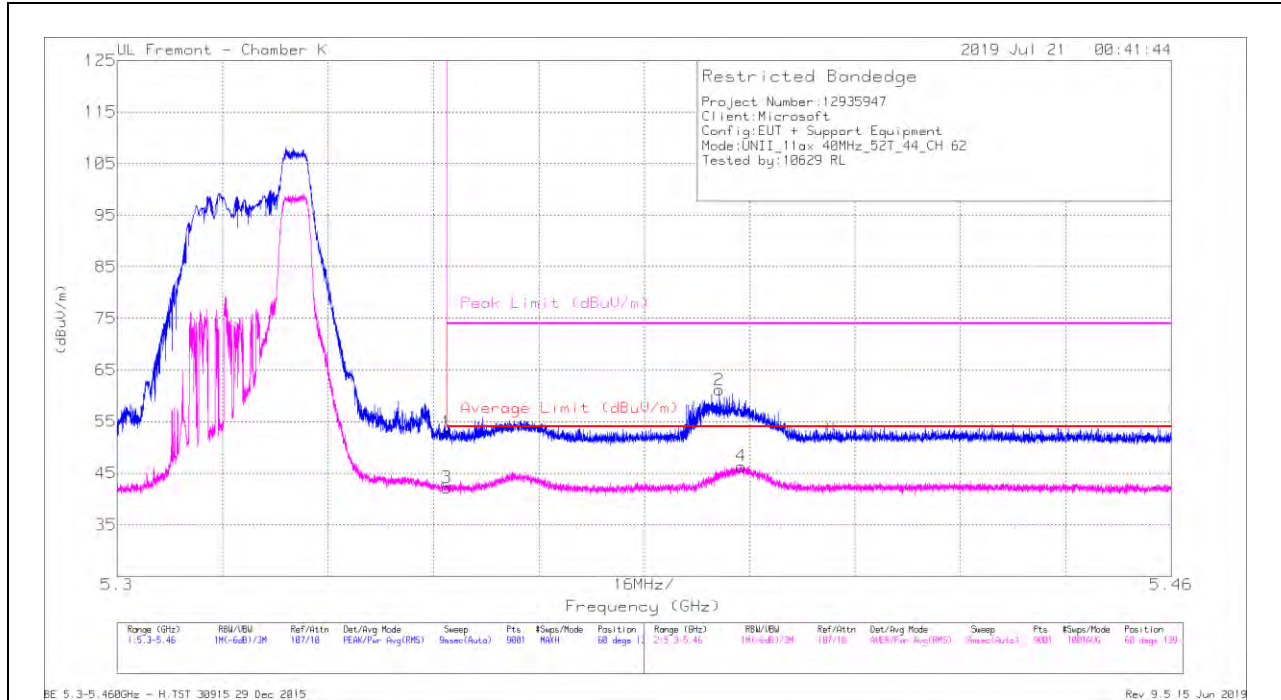
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 52-Tones, RU Index 44

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	38.4	Pk	34.4	-19.9	0	52.9	-	-	74	-21.1	60	139	H
2	* 5.3914	46.45	Pk	34.4	-19.7	0	61.15	-	-	74	-12.85	60	139	H
3	* 5.35001	26.9	RMS	34.4	-19.9	0	41.4	54	-12.6	-	-	60	139	H
4	* 5.39474	30.96	RMS	34.4	-19.8	0	45.56	54	-8.44	-	-	60	139	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 21 00:28:09

Restricted Bandedge

Project Number: 12935947
Client: Microsoft
Config: EUT + Support Equipment
Mode: UNII_11ax_40MHz_52T_44_CH 62
Tested by: 10629 RL

dBu/m

Peak Limit (dBu/m)

Average = 51.1 (dBu/m)

15MHz/

Frequency (GHz)

Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Mode	Sweep	Pts	#Sups/Mode	Position	Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Mode	Sweep	Pts	#Sups/Mode	Position
1.5, 3-5.46	100/40/1.2K	107/10	PKP/Pwr Avg(RMS)	Sweep/Normal	1001	1001	325 degs	2/3, 3-5.46	100/40/1.2K	107/10	PKP/Pwr Avg(RMS)	Sweep/Normal	1001	1001	325 degs

BE 5.3-5.460GHz - U.TST 30915 29 Dec 2015

Rev 9.5 15 Jun 2019

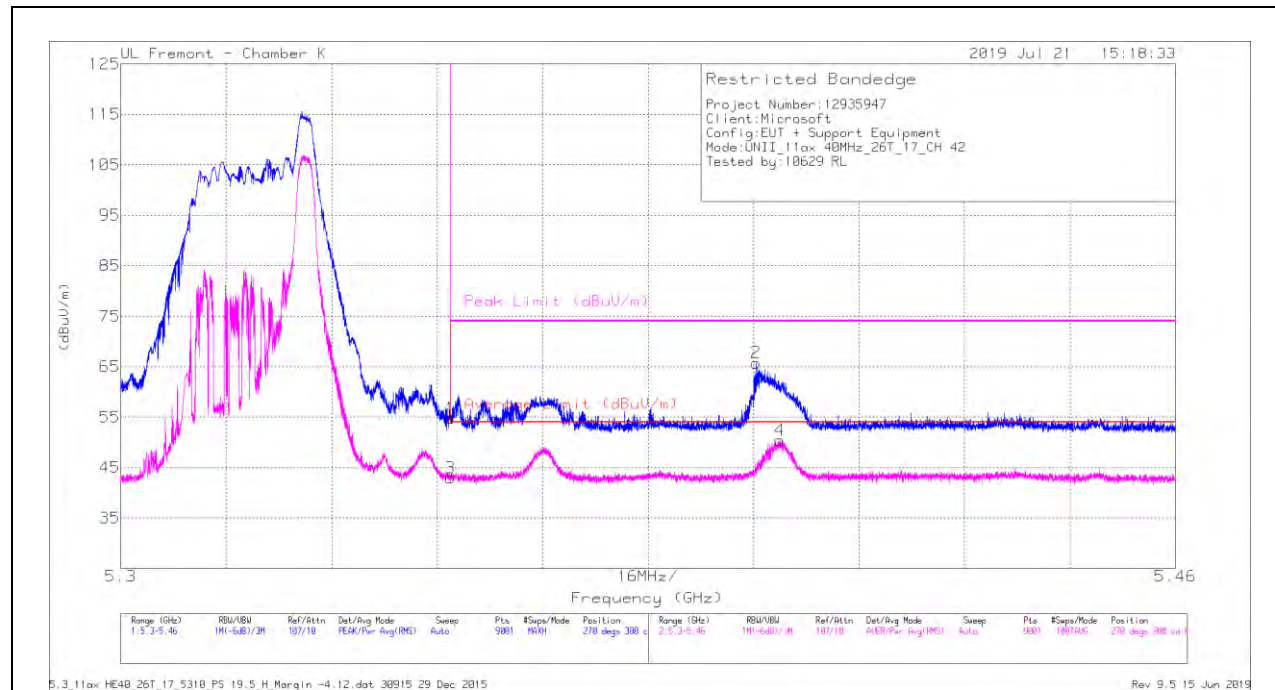
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Filt/r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	44.27	Pk	34.4	-19.9	0	58.77	-	-	74	-15.23	325	245	V
2	* 5.39108	53.72	Pk	34.4	-19.7	0	68.42	-	-	74	-5.58	325	245	V
3	* 5.35001	31.39	RMS	34.4	-19.9	0	45.89	54	-8.11	-	-	325	245	V
4	* 5.39401	37.02	RMS	34.4	-19.8	0	51.62	54	-2.38	-	-	325	245	V

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 26-Tones, RU Index 17

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	40.23	Pk	34.4	-19.9	0	54.73	-	-	74	-19.27	270	380	H
2	*5.39641	51.05	Pk	34.5	-19.8	0	65.75	-	-	74	-8.25	270	380	H
3	*5.35001	27.96	RMS	34.4	-19.9	0	42.46	54	-11.54	-	-	270	380	H
4	*5.40004	35.18	RMS	34.5	-19.8	0	49.88	54	-4.12	-	-	270	380	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 21 15:04:41

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Made: UNII_11ax_40MHz_26T_17_CH 42
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Ref Limit (dBuV/m)

16MHz/

5.3

5.46

Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position
1.5-5.46	100kHz/100kHz	107/10	PLA/(Pwr/avg) (M)	Sweep/Alt	1000	1000	dBm avg 251.5	1.5-5.46	100kHz/100kHz	107/10	PLA/(Pwr/avg) (M)	Sweep/Alt	1000	1000	dBm avg 251.5

BE 5.3-5.46GHz - U.15T.38915.29 Dec.2015

Rev. 9.5 15 Jun 2019

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Filt/r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	40.23	Pk	34.4	-19.9	0	58.44	-	-	74	-15.56	300	251	V
2	* 5.39641	51.05	Pk	34.5	-19.8	0	66.03	-	-	74	-7.97	300	251	V
3	* 5.35001	28.71	RMS	34.4	-19.9	0	43.21	54	-10.79	-	-	300	251	V
4	* 5.3642	37.11	RMS	34.4	-19.8	0	51.71	54	-2.29	-	-	300	251	V

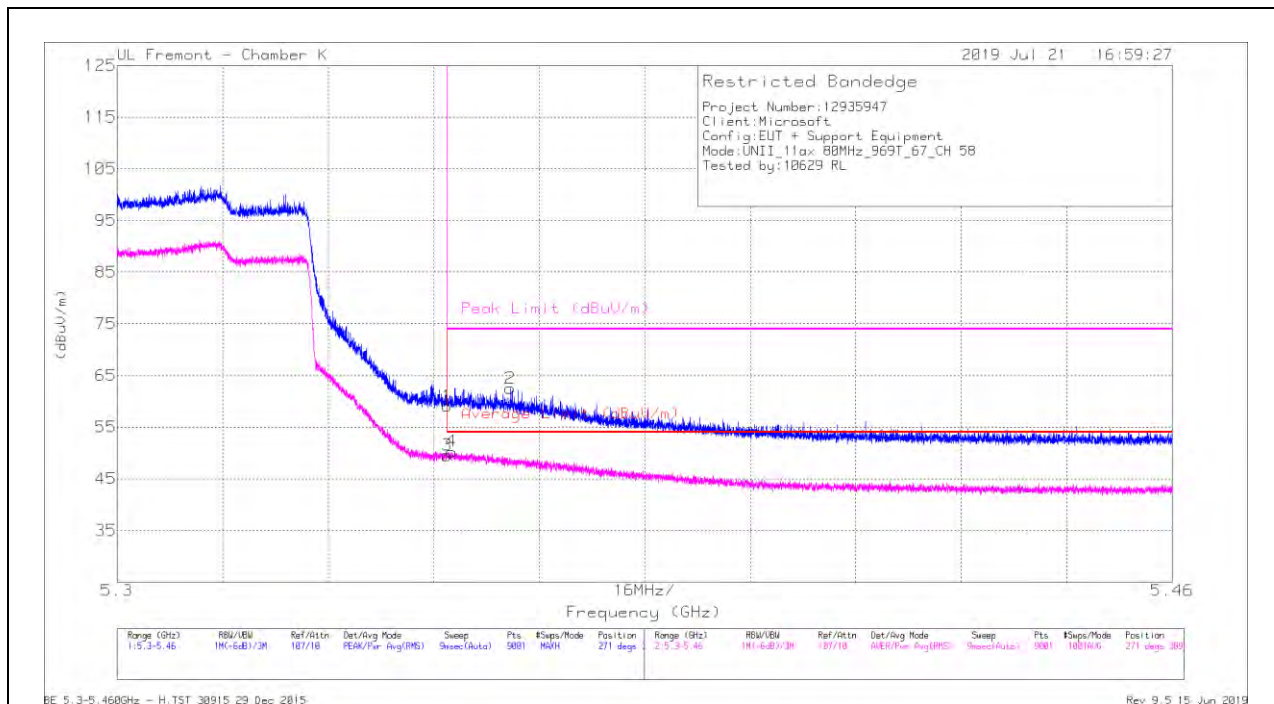
RMS - RMS detection

9.1.6. TX ABOVE 1 GHz 802.11ax HE80 MODE IN THE 5.3 GHz BAND

2TX Chain 0 + Chain 1 OFDMA MODE – 996-Tones, RU Index 67

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

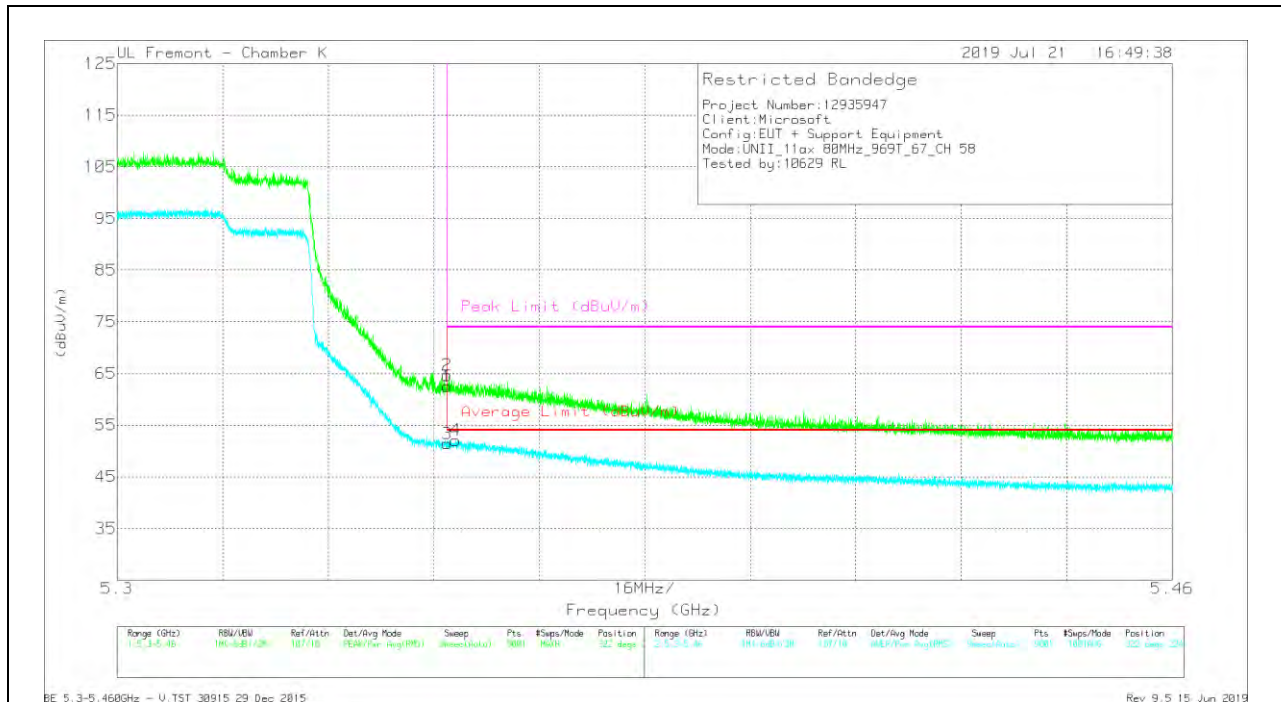
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	44.57	Pk	34.4	-19.9	0	59.07	-	-	74	-14.93	271	389	H
2	*5.35959	47.9	Pk	34.4	-19.8	0	62.5	-	-	74	-11.5	271	389	H
3	*5.35001	34.21	RMS	34.4	-19.9	0	48.71	54	-5.29	-	-	271	389	H
4	*5.35072	34.93	RMS	34.4	-19.9	0	49.43	54	-4.57	-	-	271	389	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	47.99	PK	34.4	-19.9	0	62.49	-	-	74	-11.51	322	224	V
2	* 5.35003	50.15	PK	34.4	-19.9	0	64.65	-	-	74	-9.35	322	224	V
3	* 5.35001	36.08	RMS	34.4	-19.9	0	50.58	54	-3.42	-	-	322	224	V
4	* 5.35131	36.71	RMS	34.4	-19.9	0	51.21	54	-2.79	-	-	322	224	V

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

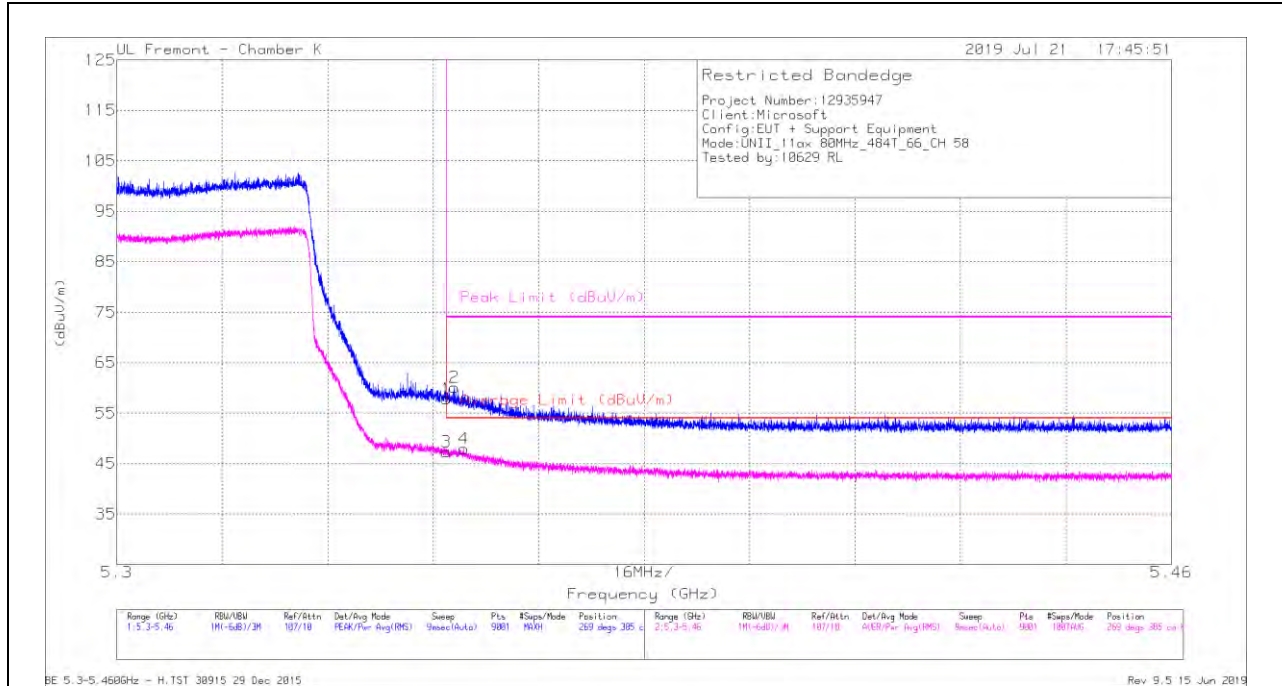
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 484-Tones, RU Index 66

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

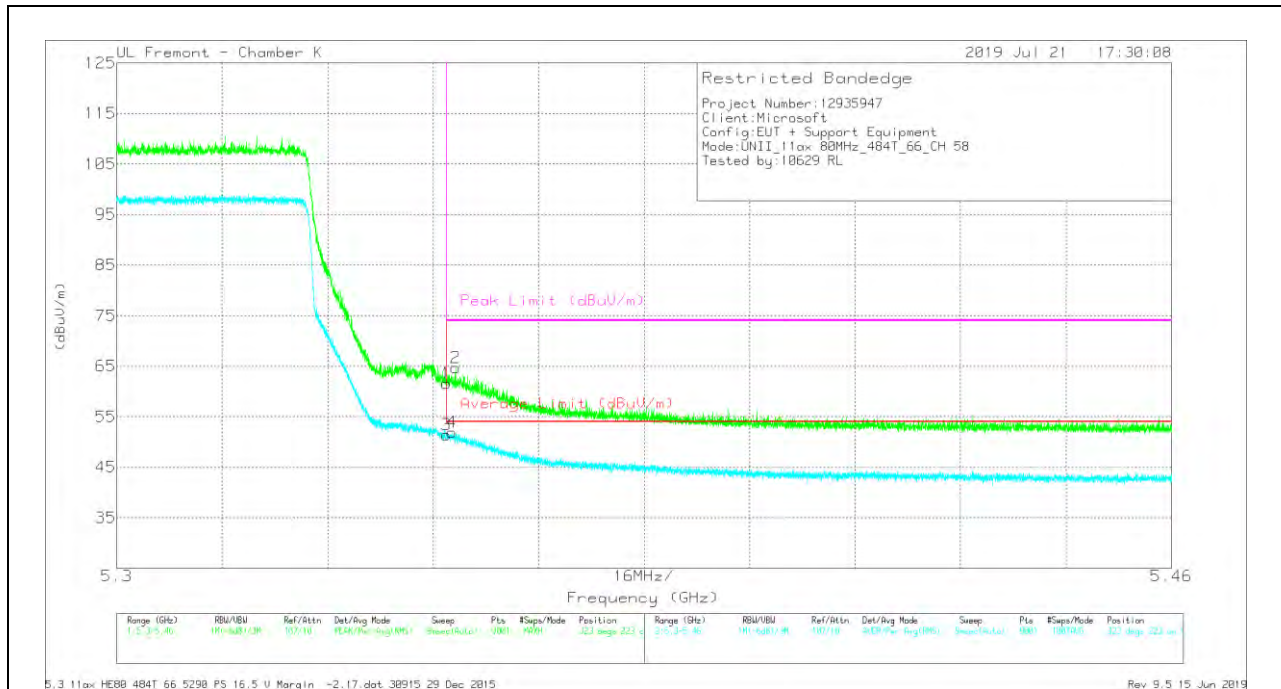
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	43.39	Pk	34.4	-19.9	0	57.89	-	-	74	-16.11	269	385	H
2	*5.35122	45.59	Pk	34.4	-19.9	0	60.09	-	-	74	-13.91	269	385	H
3	*5.35001	31.95	RMS	34.4	-19.9	0	46.45	54	-7.55	-	-	269	385	H
4	*5.35262	32.64	RMS	34.4	-19.9	0	47.14	54	-6.86	-	-	269	385	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	47.14	Pk	34.4	-19.9	0	61.64	-	-	74	-12.36	323	223	V
2	* 5.35138	50.17	Pk	34.4	-19.9	0	64.67	-	-	74	-9.33	323	223	V
3	* 5.35001	36.09	RMS	34.4	-19.9	0	50.59	54	-3.41	-	-	323	223	V
4	* 5.35083	36.53	RMS	34.4	-19.9	0	51.03	54	-2.97	-	-	323	223	V

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

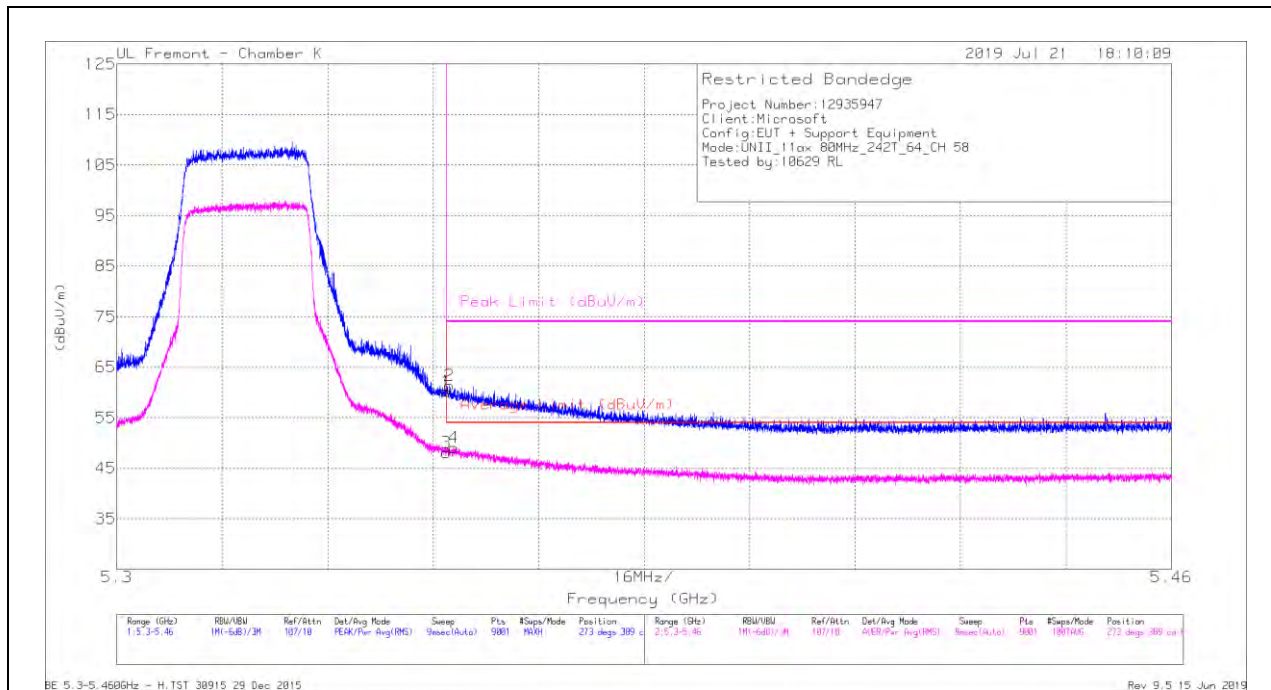
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 242-Tones, RU Index 64

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

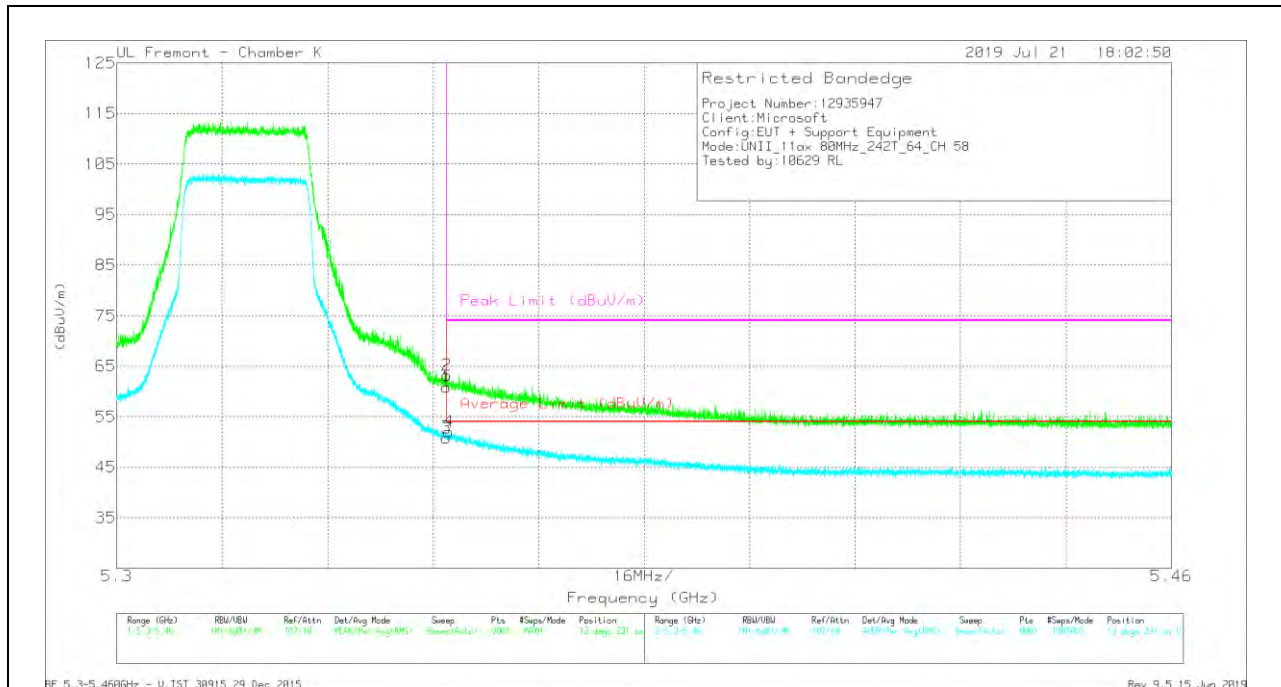
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	45.78	Pk	34.4	-19.9	0	60.28	-	-	74	-13.72	273	389	H
2	*5.35045	46.85	Pk	34.4	-19.9	0	61.35	-	-	74	-12.65	273	389	H
3	*5.35001	32.77	RMS	34.4	-19.9	0	47.27	54	-6.73	-	-	273	389	H
4	*5.35113	33.72	RMS	34.4	-19.9	0	48.22	54	-5.78	-	-	273	389	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	46.37	Pk	34.4	-19.9	0	60.87	-	-	74	-13.13	13	231	V
2	* 5.35012	48.68	Pk	34.4	-19.9	0	63.18	-	-	74	-10.82	13	231	V
3	* 5.35001	35.55	RMS	34.4	-19.9	0	50.05	54	-3.95	-	-	13	231	V
4	* 5.3504	36.77	RMS	34.4	-19.9	0	51.27	54	-2.73	-	-	13	231	V

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

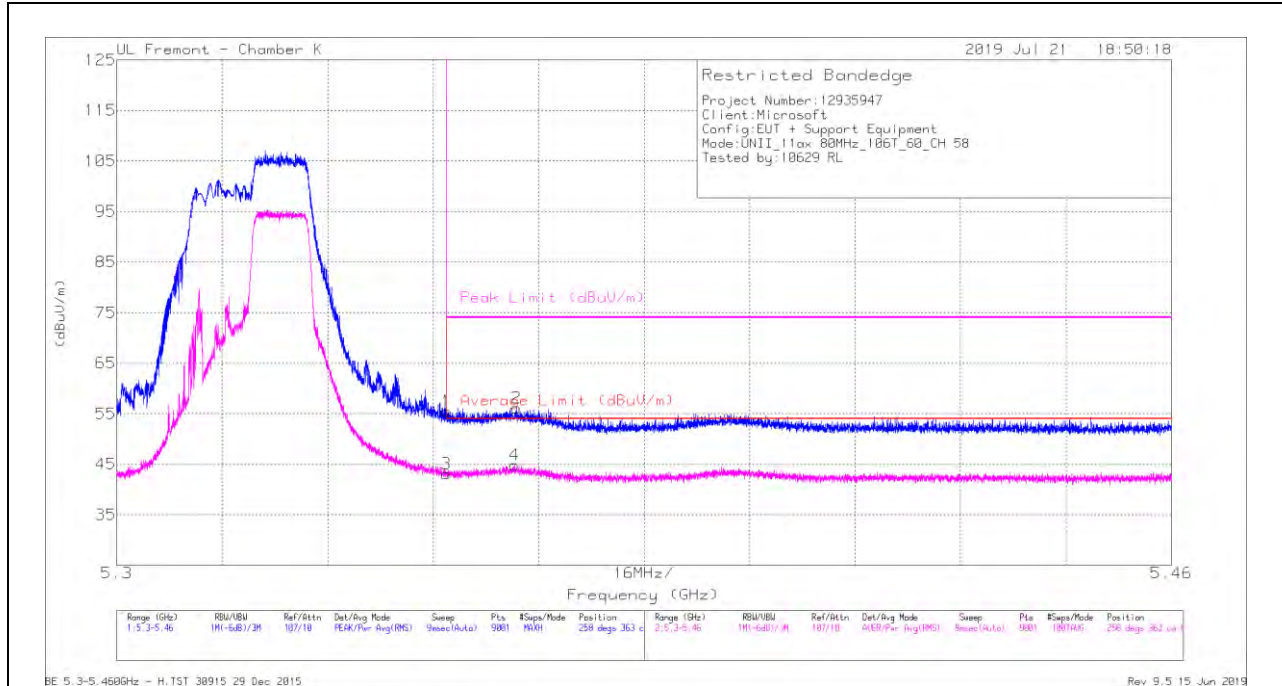
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 106-Tones, RU Index 60

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	41.03	Pk	34.4	-19.9	0	55.53	-	-	74	-18.47	258	363	H
2	*5.36064	41.57	Pk	34.4	-19.8	0	56.17	-	-	74	-17.83	258	363	H
3	*5.35001	27.76	RMS	34.4	-19.9	0	42.26	54	-11.74	-	-	258	363	H
4	*5.36034	29.42	RMS	34.4	-19.8	0	44.02	54	-9.98	-	-	258	363	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 21 18:41:22

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Model: UMII_11ax_80MHz_186T_66_CH 58
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

dBuV/m

16MHz/

Frequency (GHz)

Range (GHz)	RBW/ABW	Ref/Attn	Det/Avg Mode	Sweep	Pts	#Seps/Mode	Position	Range (GHz)	RBW/ABW	Ref/Attn	Det/Avg Mode	Sweep	Pts	#Seps/Mode	Position
5.3-5.46	100kHz/100kHz	100/10	Peak/Power	Power	1000	1000	8 segs, 240 pts	5.3-5.46	100kHz/100kHz	100/10	Peak/Power	Power	1000	1000	8 segs, 240 pts

RF 5.3-5.46GHz - U.15T 30915 29 Dec 2015

Rev 5.5.15 Jun 2015

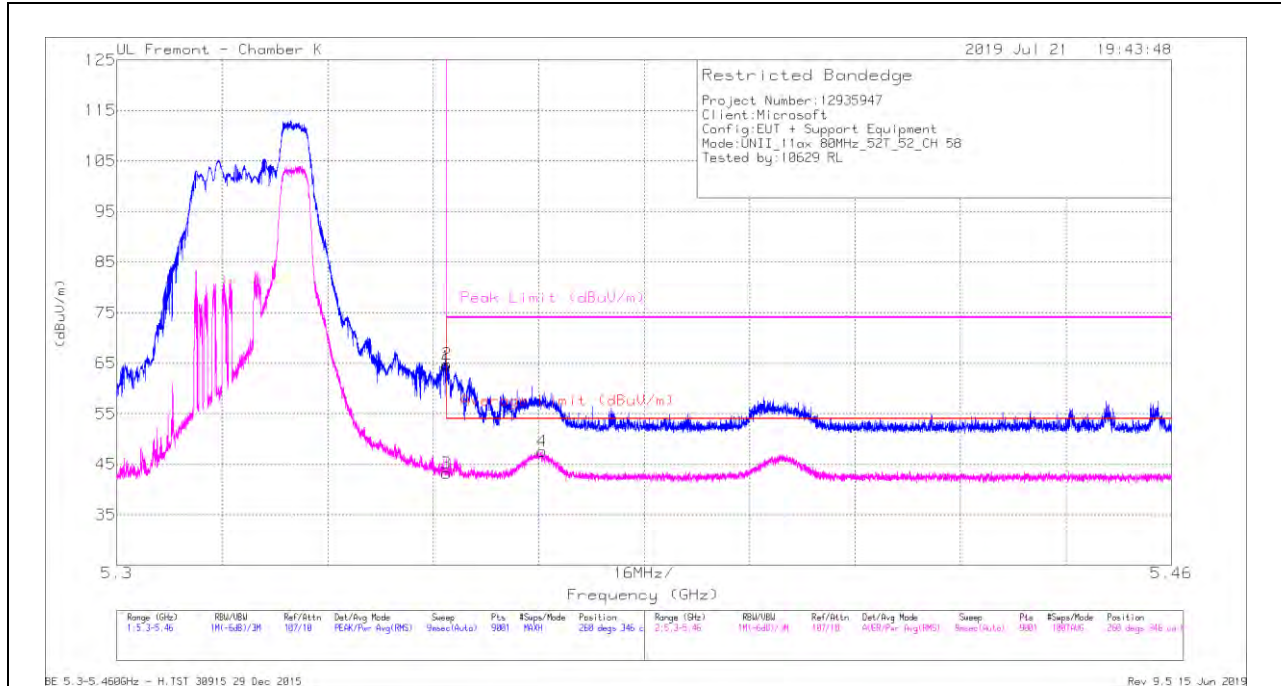
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM C4294 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	45	Pk	34.4	-19.9	0	59.5	-	-	74	-14.5	0	246	V
2	* 5.35197	48.27	Pk	34.4	-19.9	0	62.77	-	-	74	-11.23	0	246	V
3	* 5.35001	31.57	RMS	34.4	-19.9	0	46.07	54	-7.93	-	-	0	246	V
4	* 5.35979	34.15	RMS	34.4	-19.8	0	48.75	54	-5.25	-	-	0	246	V

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 52-Tones, RU Index 52

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

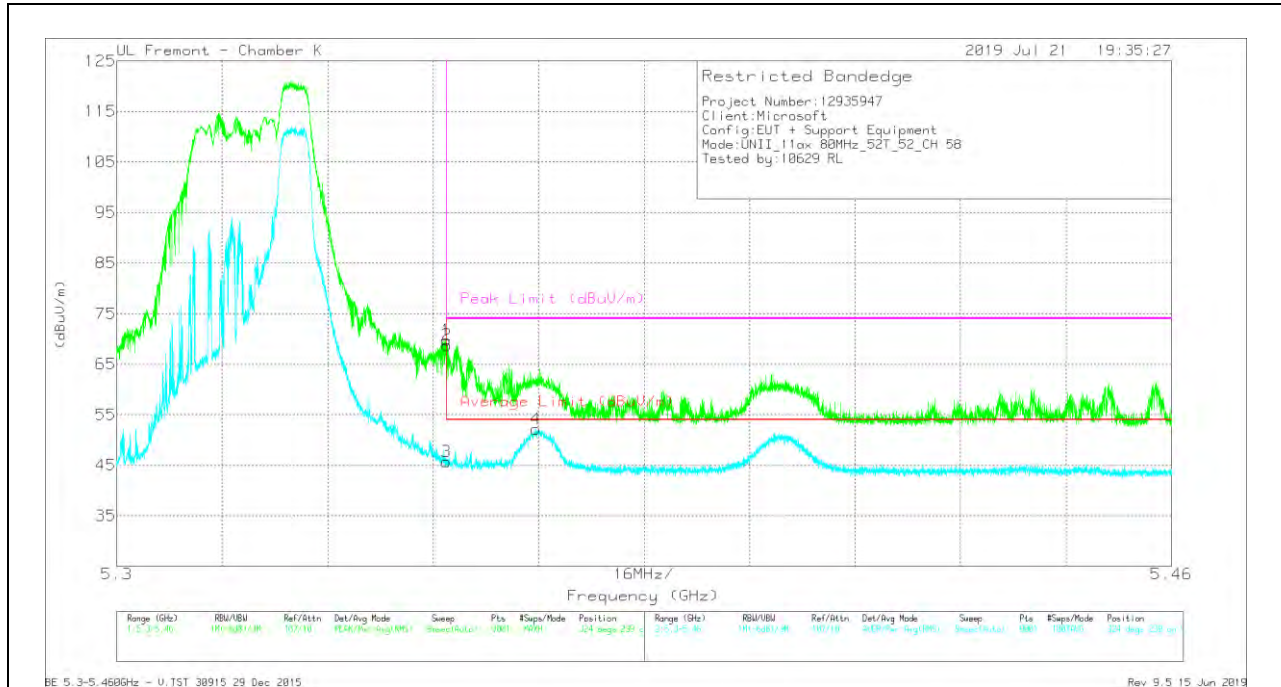
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	49.8	Pk	34.4	-19.9	0	64.3	-	-	74	-9.7	260	346	H
2	*5.35006	50.29	Pk	34.4	-19.9	0	64.79	-	-	74	-9.21	260	346	H
3	*5.35001	27.86	RMS	34.4	-19.9	0	42.36	54	-11.64	-	-	260	346	H
4	*5.36453	32.1	RMS	34.4	-19.8	0	46.7	54	-7.3	-	-	260	346	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	55.28	Pk	34.4	-19.9	0	69.78	-	-	74	-4.22	324	239	V
2	* 5.35008	54.31	Pk	34.4	-19.9	0	68.81	-	-	74	-5.19	324	239	V
3	* 5.35001	30.35	RMS	34.4	-19.9	0	44.85	54	-9.15	-	-	324	239	V
4	* 5.36361	36.74	RMS	34.4	-19.8	0	51.34	54	-2.66	-	-	324	239	V

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

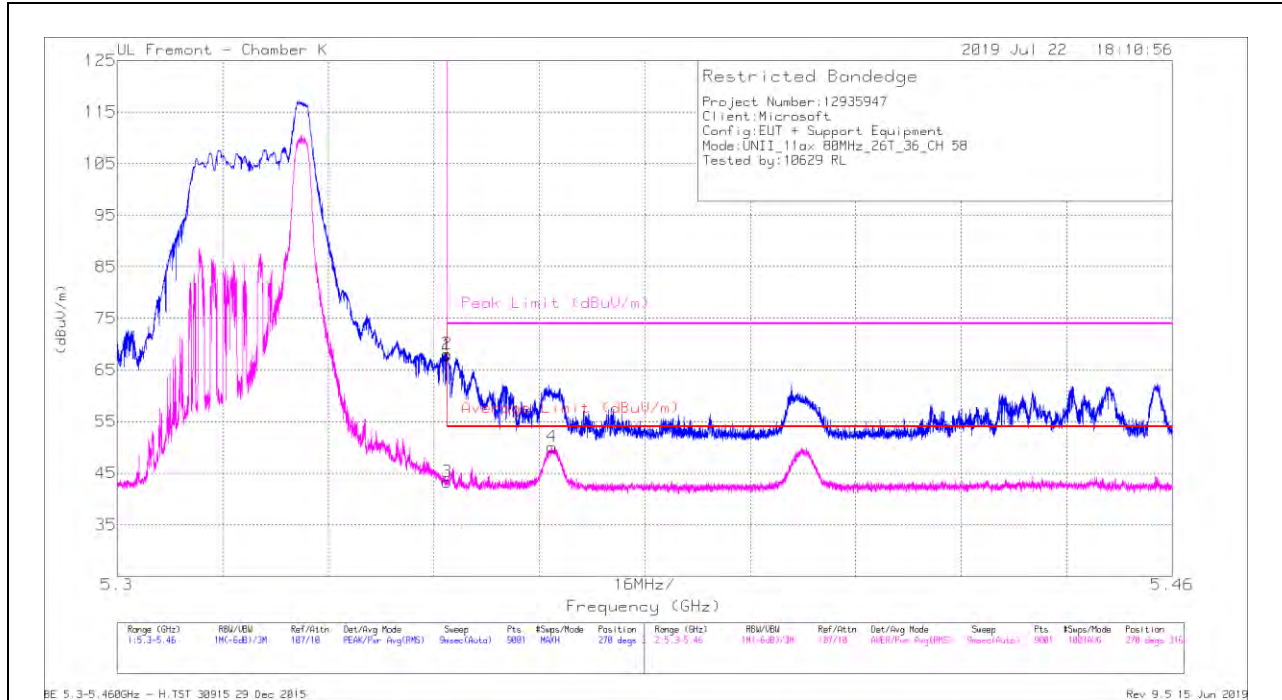
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 26-Tones, RU Index 36

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



Trace Markers

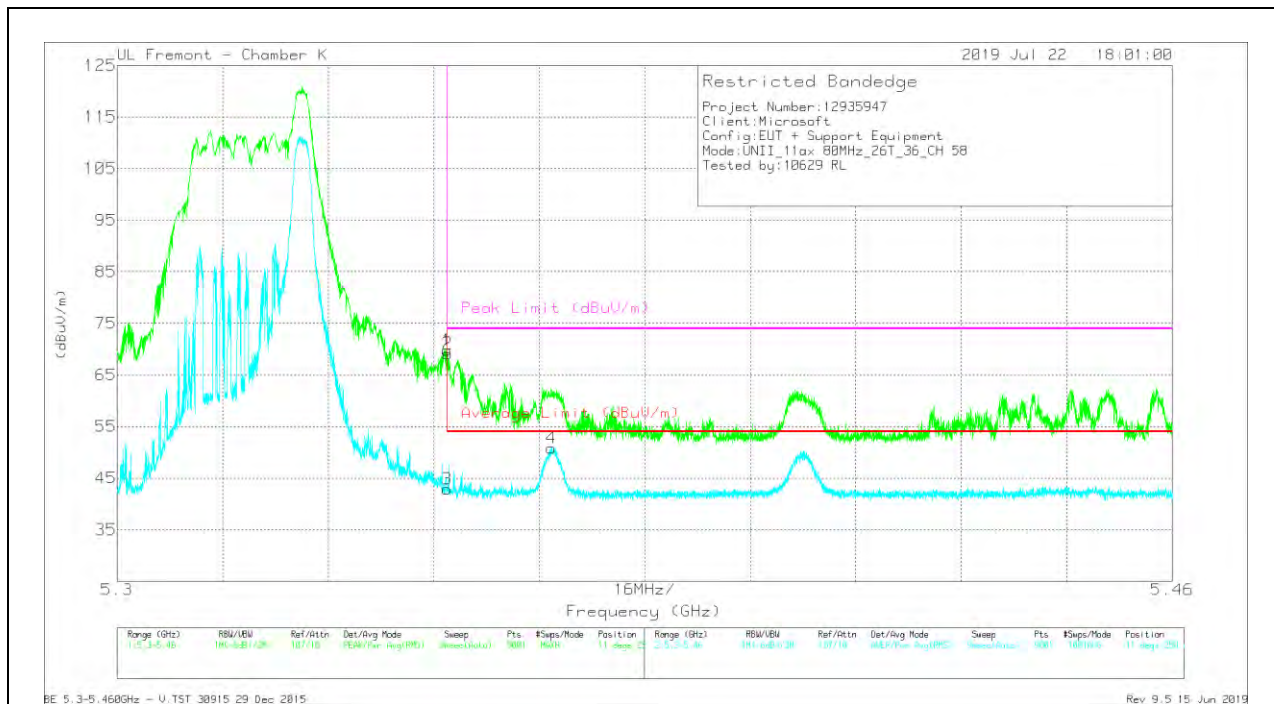
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	53.4	Pk	34.4	-19.9	0	67.9	-	-	74	-6.1	270	316	H
2	* 5.35003	53.64	Pk	34.4	-19.9	0	68.14	-	-	74	-5.86	270	316	H
3	* 5.35001	28.32	RMS	34.4	-19.9	0	42.82	54	-11.18	-	-	270	316	H
4	* 5.3659	35	RMS	34.4	-19.8	0	49.6	54	-4.4	-	-	270	316	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	55.28	PK	34.4	-19.9	0	69.78	-	-	74	-4.22	11	250	V
2	* 5.35013	54.61	PK	34.4	-19.9	0	69.11	-	-	74	-4.89	11	250	V
3	* 5.35001	27.87	RMS	34.4	-19.9	0	42.37	54	-11.63	-	-	11	250	V
4	* 5.36581	35.69	RMS	34.4	-19.8	0	50.29	54	-3.71	-	-	11	250	V

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

PK - Peak detector

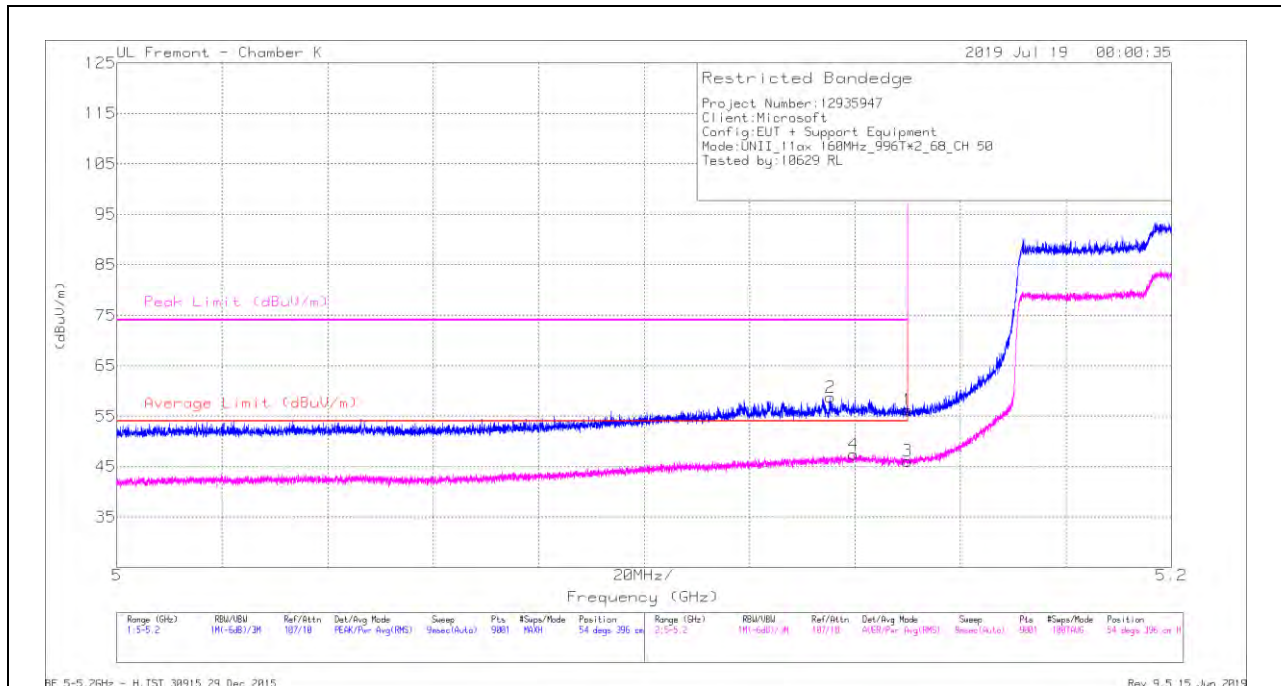
RMS - RMS detection

9.1.7. TX ABOVE 1 GHz 802.11ax HE160 MODE IN THE 5.2 & 5.3 GHz BAND

2TX Chain 0 + Chain 1 OFDMA MODE – 2x996-Tones, RU Index 68

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.1	Pk	34.2	-20.1	0	56.2	-	-	74	-17.8	54	396	H
2	* 5.13533	44.61	Pk	34.3	-20.2	0	58.71	-	-	74	-15.29	54	396	H
3	* 5.15	31.23	RMS	34.2	-20.1	0	45.33	54	-8.67	-	-	54	396	H
4	* 5.13978	32.53	RMS	34.3	-20.2	0	46.63	54	-7.37	-	-	54	396	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 18 23:50:41

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Mode: UNII_11ax_160MHz_996T*2_68_CH_50
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

20MHz/

Frequency (GHz)

Range (GHz)	RBW/ABW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/ABW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position
1.5 GHz	100 kHz/100 kHz	100/10	PLA/Pk (Avg) (MHz)	Sweep (Auto)	1000	1000	14 steps 27.5 dB	1.5 GHz	100 kHz/100 kHz	100/10	PLA/Pk (Avg) (MHz)	Sweep (Auto)	1000	1000	14 steps 27.5 dB

BE 5-5.26GHz - U.TST.38915 29 Dec 2015

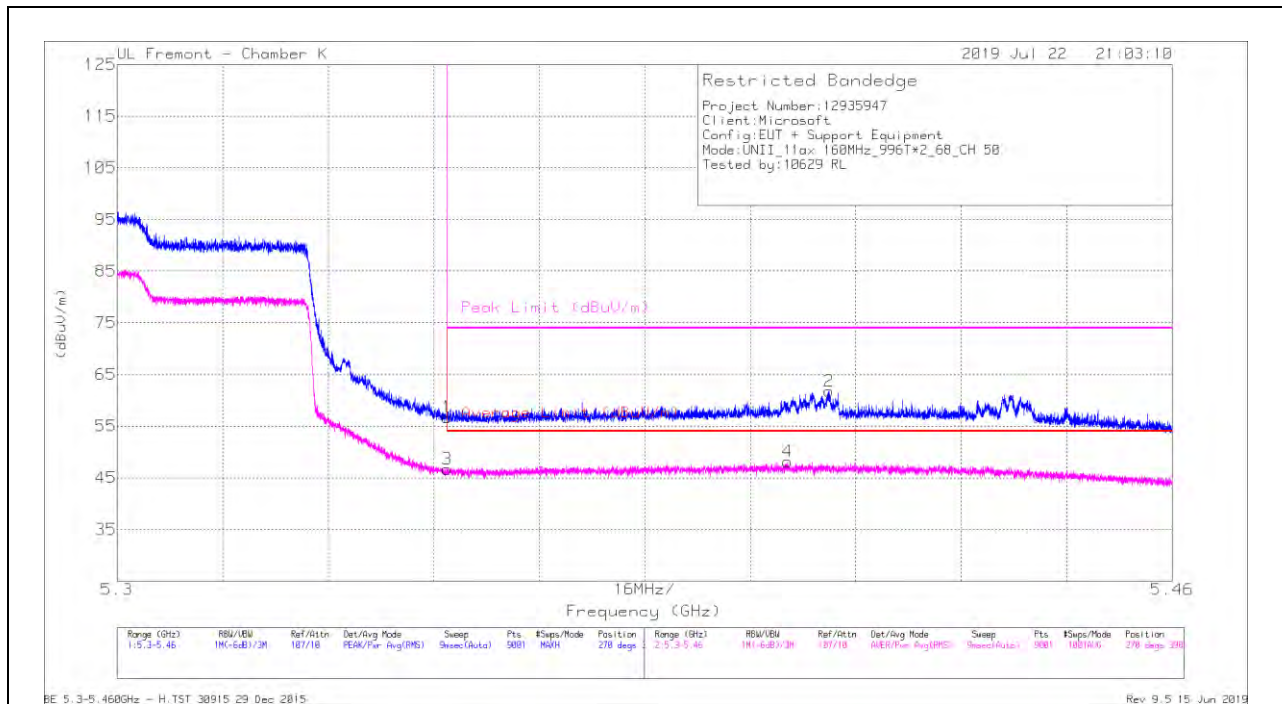
Rev 5.5 15 Jun 2019

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM C4294 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.83	Pk	34.2	-20.1	0	59.93	-	-	74	-14.07	14	273	V
2	* 5.14087	48.64	Pk	34.2	-20.2	0	62.64	-	-	74	-11.36	14	273	V
3	* 5.15	35.94	RMS	34.2	-20.1	0	50.04	54	-3.96	-	-	14	273	V
4	* 5.14311	36.84	RMS	34.2	-20.2	0	50.84	54	-3.16	-	-	14	273	V

RMS - RMS detection

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

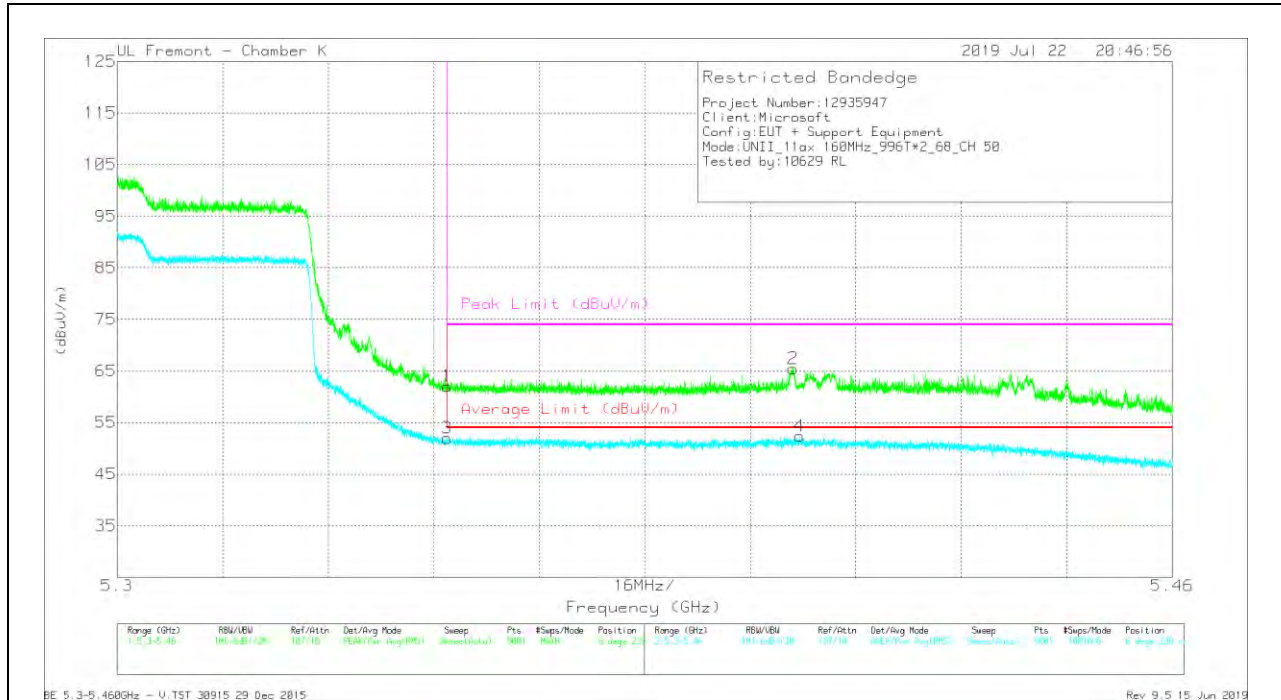
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	42.17	Pk	34.4	-19.9	0	56.67	-	-	74	-17.33	270	398	H
2	*5.40798	47.14	Pk	34.4	-19.8	0	61.74	-	-	74	-12.26	270	398	H
3	*5.35001	31.37	RMS	34.4	-19.9	0	45.87	54	-8.13	-	-	270	398	H
4	*5.40167	32.65	RMS	34.5	-19.8	0	47.35	54	-6.65	-	-	270	398	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	47.55	PK	34.4	-19.9	0	62.05	-	-	74	-11.95	6	238	V
2	* 5.40249	50.75	PK	34.5	-19.8	0	65.45	-	-	74	-8.55	6	238	V
3	* 5.35001	36.67	RMS	34.4	-19.9	0	51.17	54	-2.83	-	-	6	238	V
4	* 5.40345	36.77	RMS	34.5	-19.7	0	51.57	54	-2.43	-	-	6	238	V

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

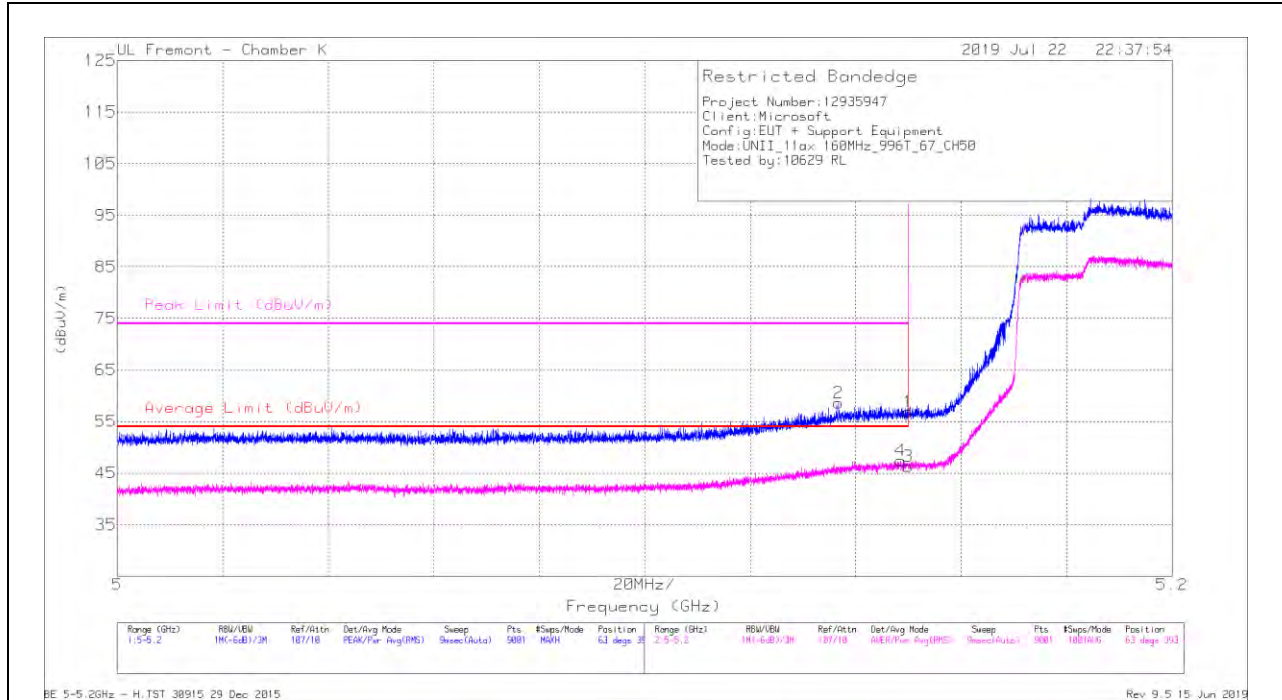
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 996-Tones, RU Index 67

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

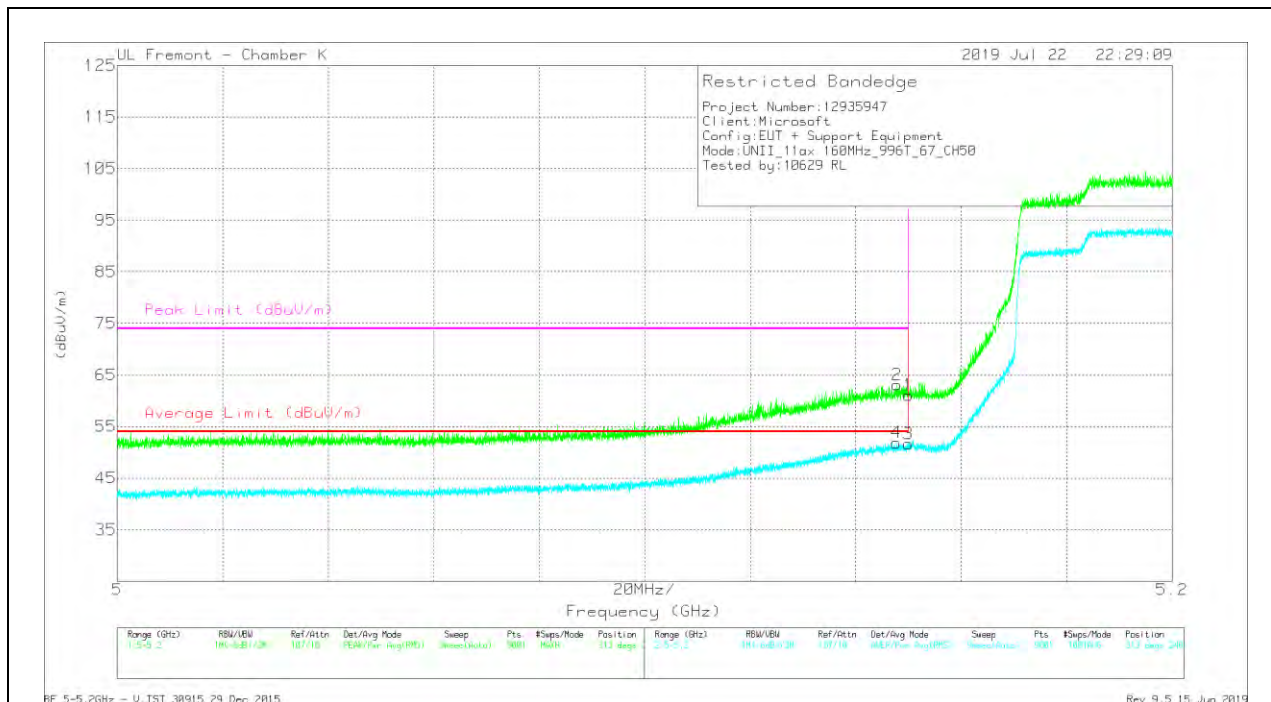
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.74	Pk	34.2	-20.1	0	56.84	-	-	74	-17.16	63	393	H
2	* 5.13678	44.5	Pk	34.3	-20.2	0	58.6	-	-	74	-15.4	63	393	H
3	* 5.15	31.37	RMS	34.2	-20.1	0	45.47	54	-8.53	-	-	63	393	H
4	* 5.14847	32.47	RMS	34.2	-20.1	0	46.57	54	-7.43	-	-	63	393	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.98	PK	34.2	-20.1	0	61.08	-	-	74	-12.92	313	248	V
2	* 5.14778	49	PK	34.2	-20.1	0	63.1	-	-	74	-10.9	313	248	V
3	* 5.15	36.75	RMS	34.2	-20.1	0	50.85	54	-3.15	-	-	313	248	V
4	* 5.14769	36.95	RMS	34.2	-20.1	0	51.05	54	-2.95	-	-	313	248	V

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

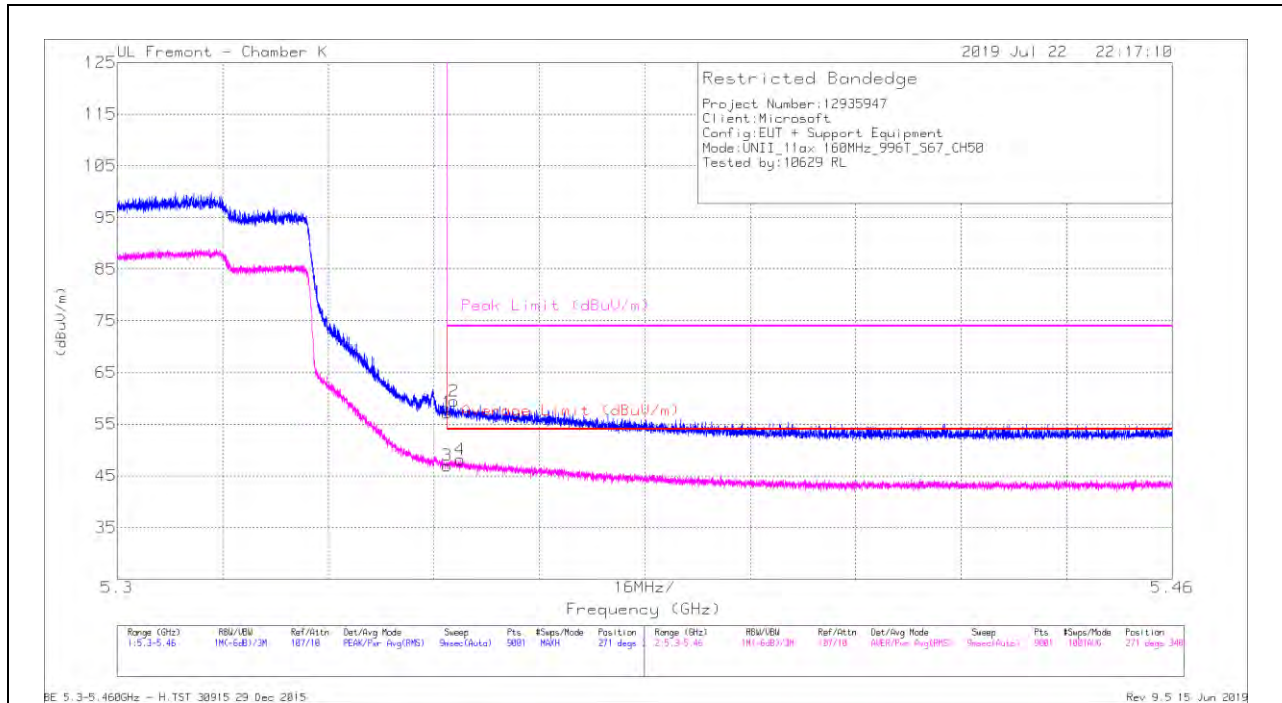
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 996-Tones, RU Index S67

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

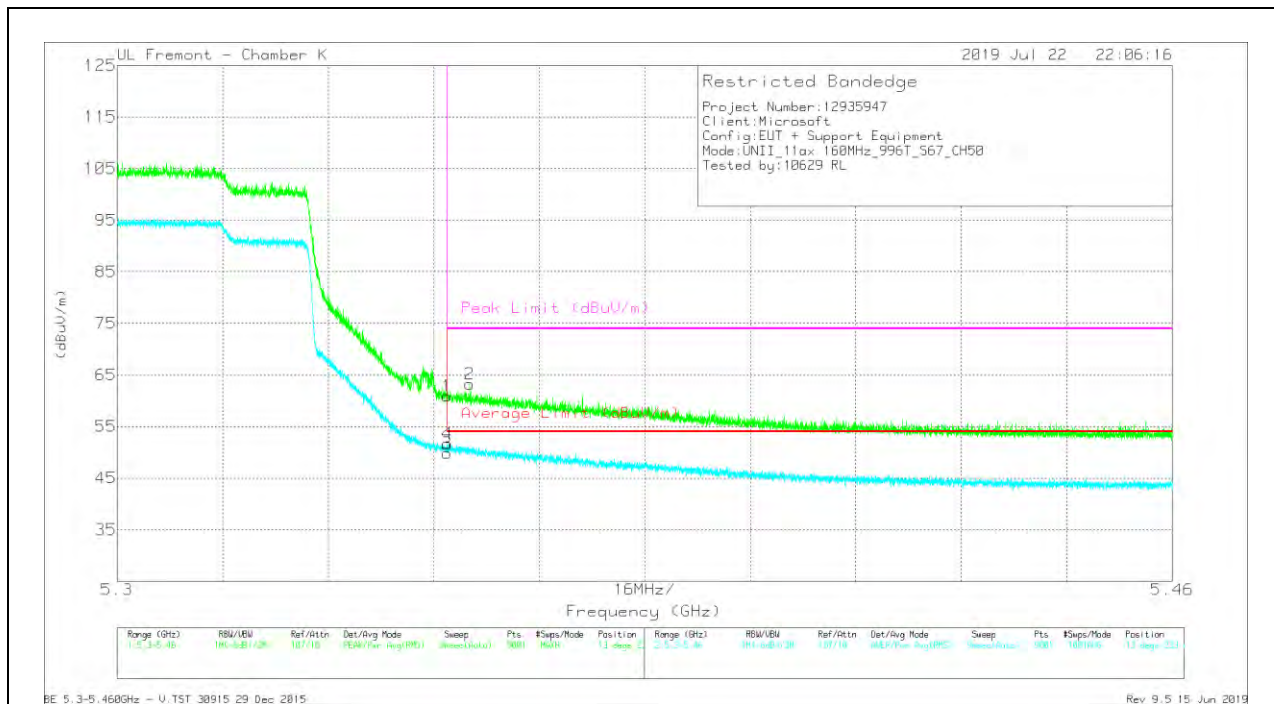
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	42.67	Pk	34.4	-19.9	0	57.17	-	-	74	-16.83	271	348	H
2	*5.35106	44.93	Pk	34.4	-19.9	0	59.43	-	-	74	-14.57	271	348	H
3	*5.35001	31.67	RMS	34.4	-19.9	0	46.17	54	-7.83	-	-	271	348	H
4	*5.35202	32.81	RMS	34.4	-19.9	0	47.31	54	-6.69	-	-	271	348	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	46.4	PK	34.4	-19.9	0	60.9	-	-	74	-13.1	13	233	V
2	* 5.35346	48.71	PK	34.4	-19.9	0	63.21	-	-	74	-10.79	13	233	V
3	* 5.35001	34.53	RMS	34.4	-19.9	0	49.03	54	-4.97	-	-	13	233	V
4	* 5.35006	36.32	RMS	34.4	-19.9	0	50.82	54	-3.18	-	-	13	233	V

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

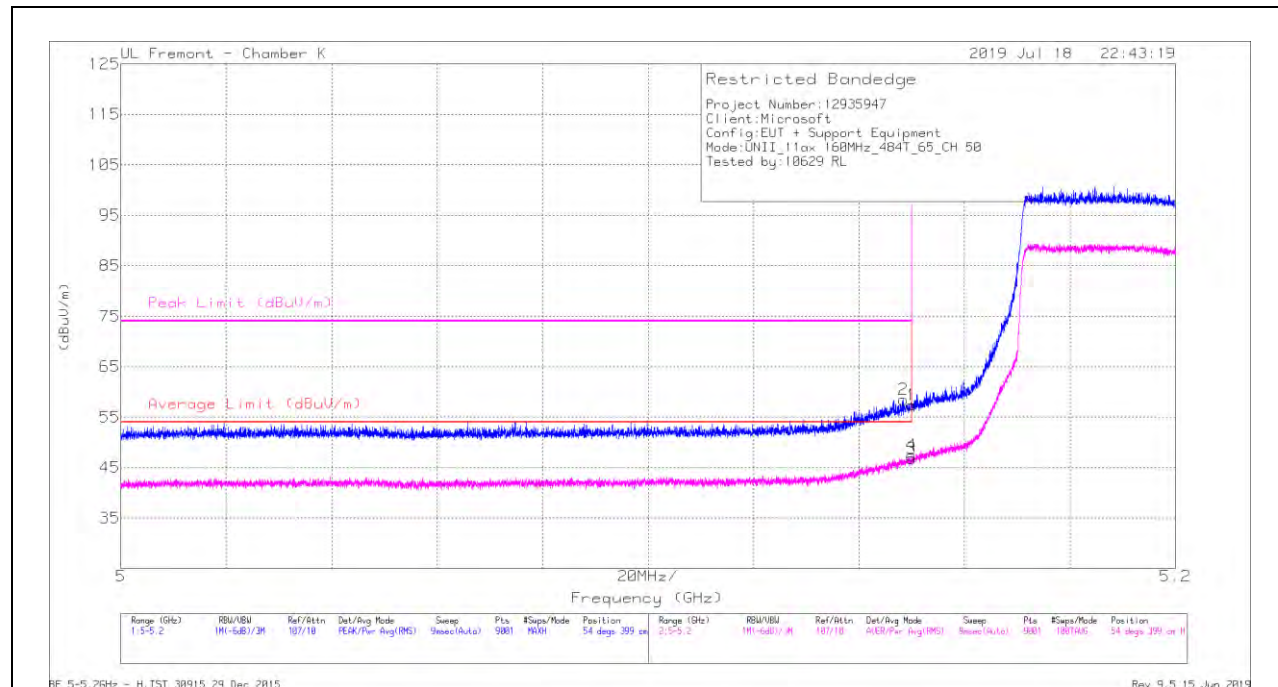
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 484-Tones, RU Index 65

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	43.22	Pk	34.2	-20.1	0	57.32	-	-	74	-16.68	54	399	H
2	*5.1484	44.35	Pk	34.2	-20.1	0	58.45	-	-	74	-15.55	54	399	H
3	*5.15	31.92	RMS	34.2	-20.1	0	46.02	54	-7.98	-	-	54	399	H
4	*5.14998	32.58	RMS	34.2	-20.1	0	46.68	54	-7.32	-	-	54	399	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 18 22:34:05

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Mode: UNII_11ax_160MHz_484T_65_CH 50
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

dBuV/m

20MHz/

Frequency (GHz)

Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position
1.5 GHz	100 kHz/1 MHz	107/10	Peak/Power (dBm)	Sweep (Auto)	1000	1000	7 degs 230 uV	1.5 GHz	100 kHz/1 MHz	107/10	dB/Power Avg (dB)	Sweep (Auto)	1000	1000	7 degs 230 uV

BE 5-5.26GHz - U.TST.38915 29 Dec 2015

Rev 9.5 15 Jun 2019

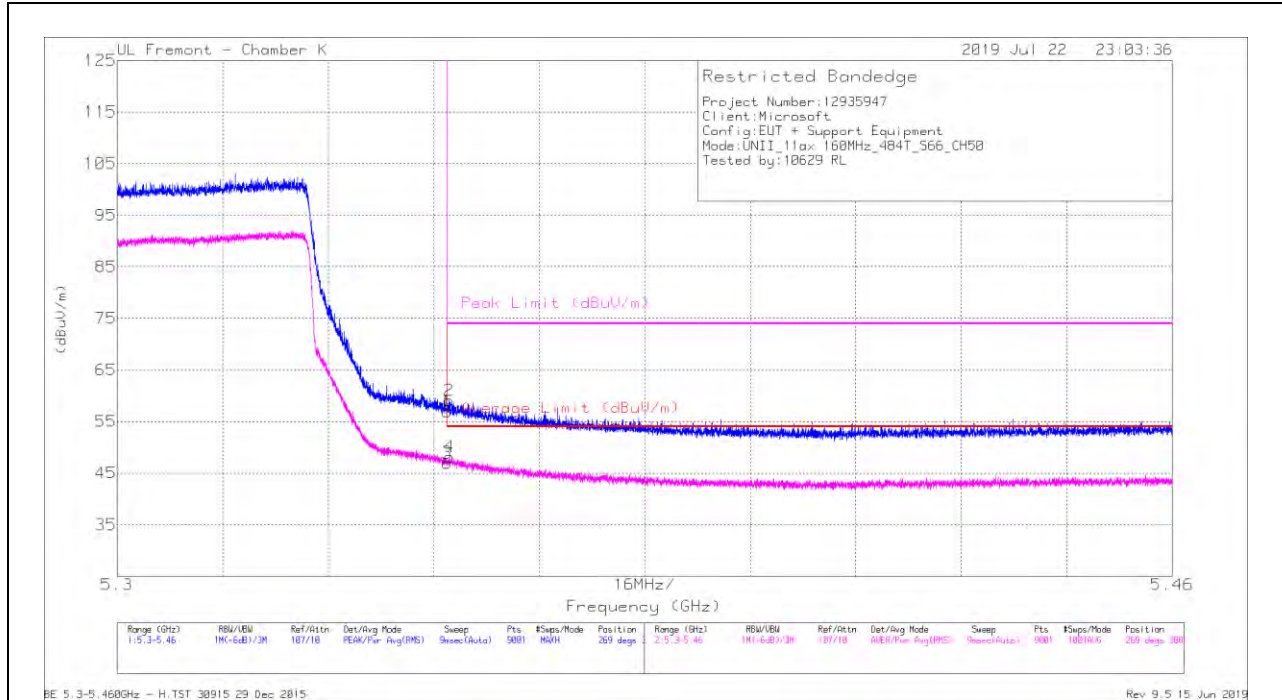
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.64	Pk	34.2	-20.1	0	61.74	-	-	74	-12.26	7	238	V
2	* 5.14969	48.87	Pk	34.2	-21.0	0	62.97	-	-	74	-11.03	7	238	V
3	* 5.15	35.02	RMS	34.2	-20.1	0	49.12	54	-4.88	-	-	7	238	V
4	* 5.14973	36.61	RMS	34.2	-20.1	0	50.71	54	-3.29	-	-	7	238	V

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 484-Tones, RU Index S66

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

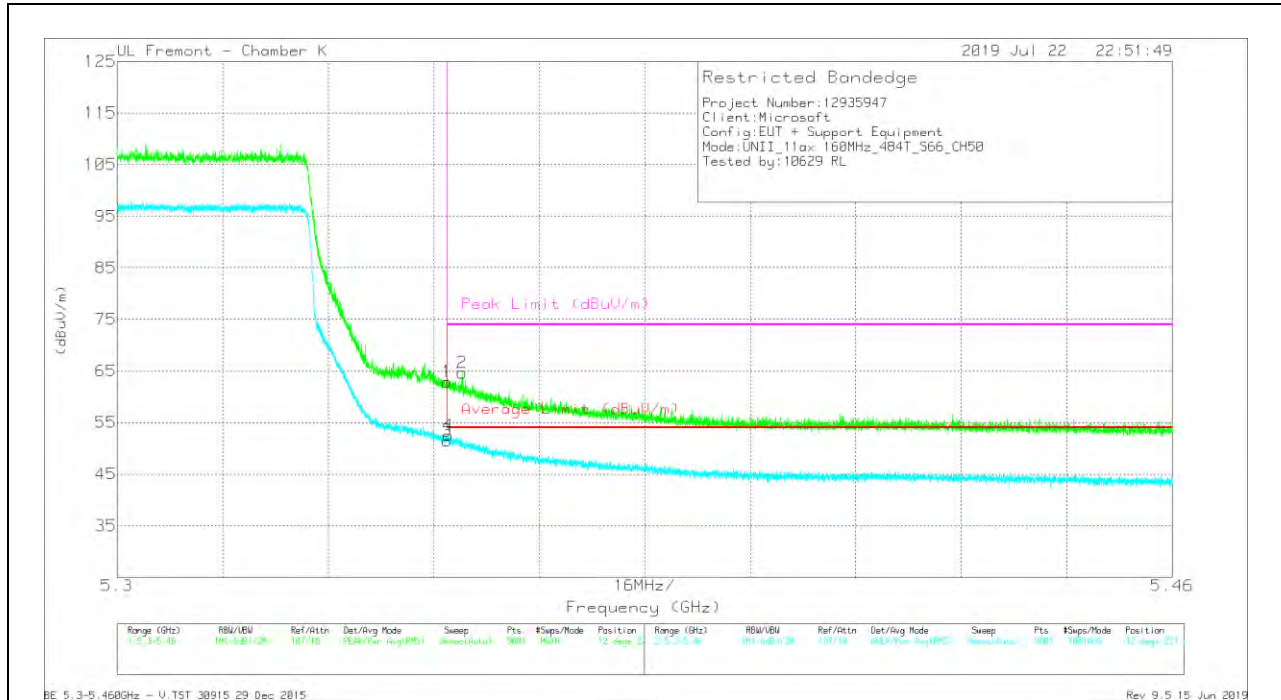
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	42.41	Pk	34.4	-19.9	0	56.91	-	-	74	-17.09	269	388	H
2	* 5.35028	44.59	Pk	34.4	-19.9	0	59.09	-	-	74	-14.91	269	388	H
3	* 5.35001	31.64	RMS	34.4	-19.9	0	46.14	54	-7.86	-	-	269	388	H
4	* 5.35042	32.8	RMS	34.4	-19.9	0	47.3	54	-6.7	-	-	269	388	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	48.38	PK	34.4	-19.9	0	62.88	-	-	74	-11.12	12	221	V
2	* 5.35234	50.16	PK	34.4	-19.9	0	64.66	-	-	74	-9.34	12	221	V
3	* 5.35001	36.12	RMS	34.4	-19.9	0	50.62	54	-3.38	-	-	12	221	V
4	* 5.35022	37.18	RMS	34.4	-19.9	0	51.68	54	-2.32	-	-	12	221	V

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

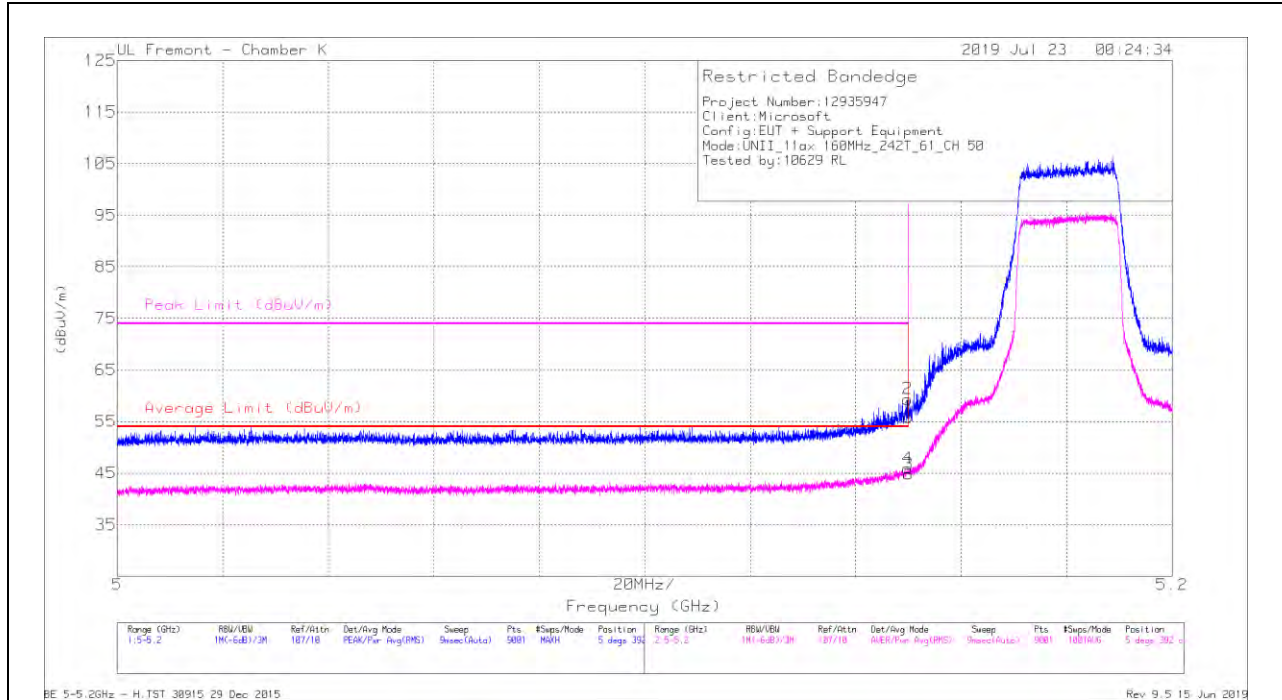
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 242-Tones, RU Index 61

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

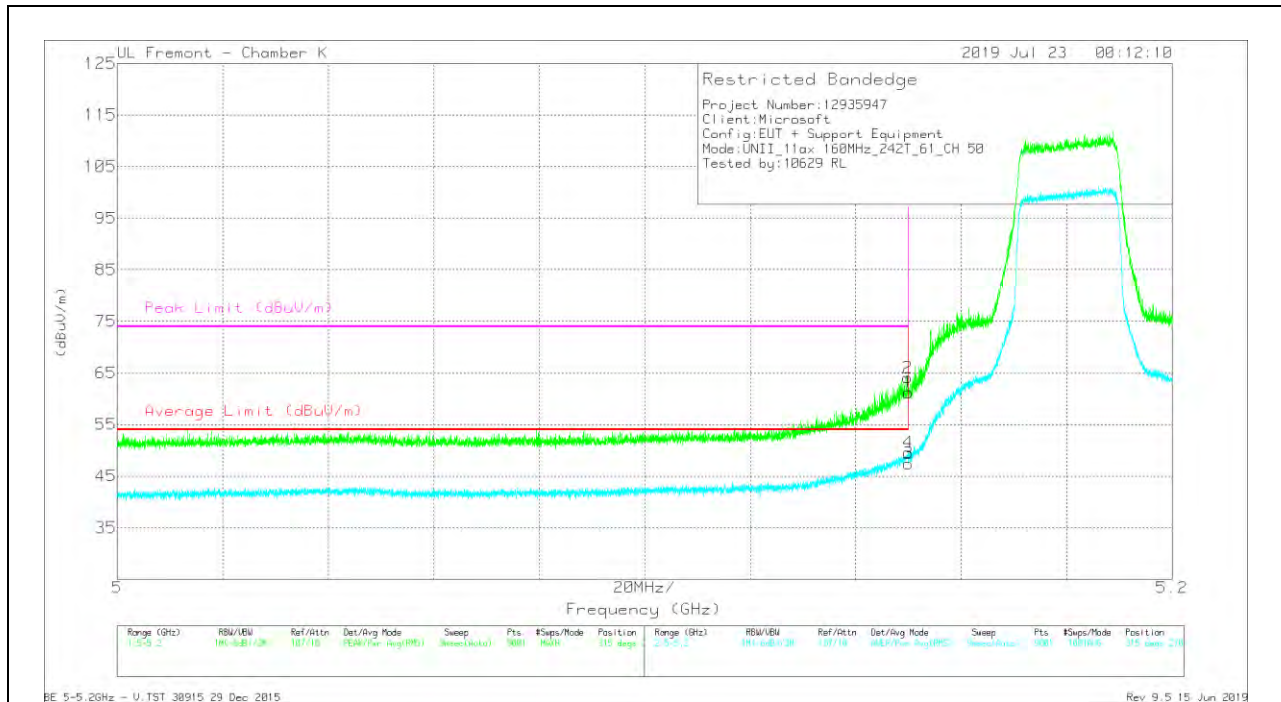
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.79	Pk	34.2	-20.1	0	55.89	-	-	74	-18.11	5	392	H
2	* 5.14984	45.29	Pk	34.2	-20.1	0	59.39	-	-	74	-14.61	5	392	H
3	* 5.15	29.91	RMS	34.2	-20.1	0	44.01	54	-9.99	-	-	5	392	H
4	* 5.14984	31	RMS	34.2	-20.1	0	45.1	54	-8.9	-	-	5	392	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.14	PK	34.2	-20.1	0	61.24	-	-	74	-12.76	315	270	V
2	* 5.14984	49.97	PK	34.2	-20.1	0	64.07	-	-	74	-9.93	315	270	V
3	* 5.15	32.51	RMS	34.2	-20.1	0	46.61	54	-7.39	-	-	315	270	V
4	* 5.14995	34.67	RMS	34.2	-20.1	0	48.77	54	-5.23	-	-	315	270	V

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

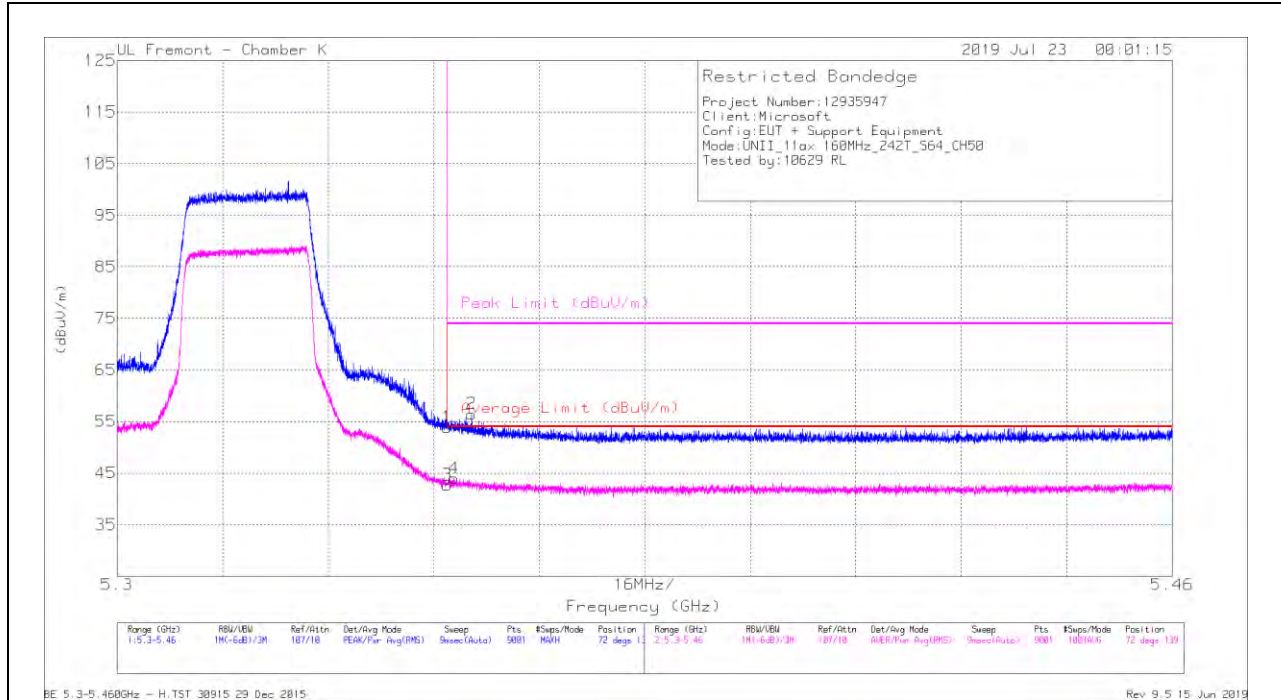
PK - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 242-Tones, RU Index S64

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

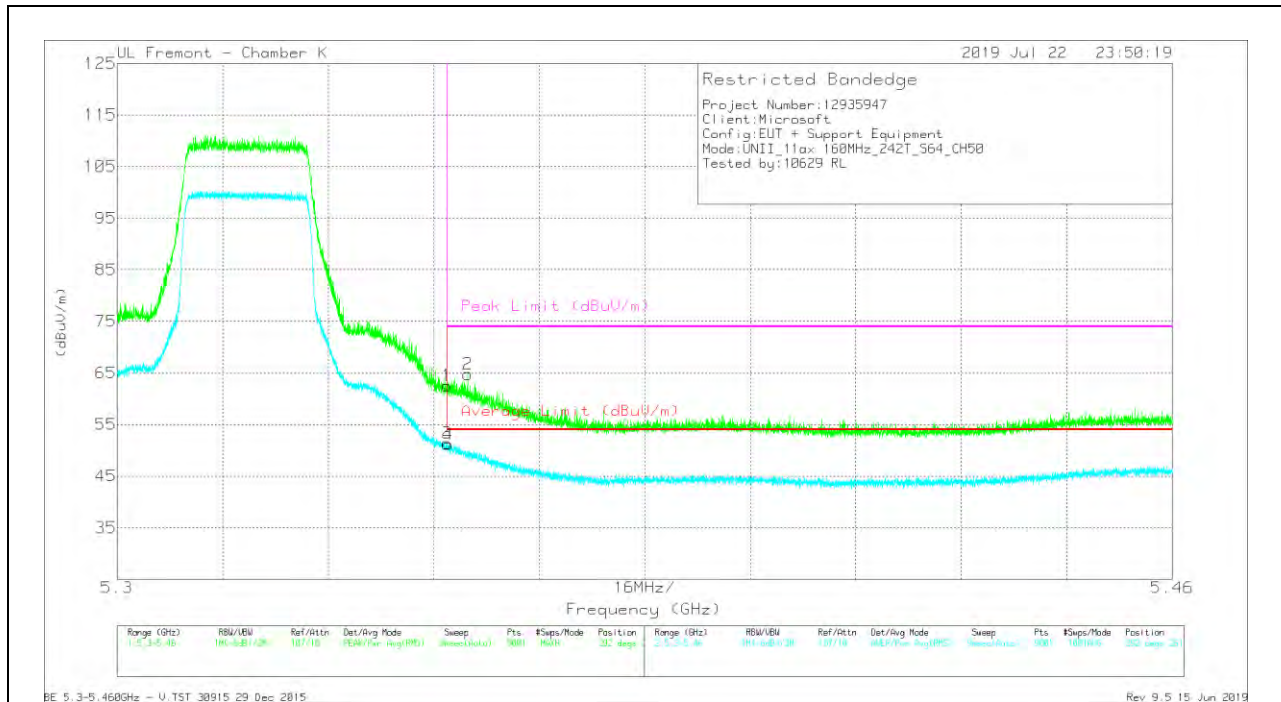
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	39.44	Pk	34.4	-19.9	0	53.94	-	-	74	-20.06	72	139	H
2	* 5.35373	41.96	Pk	34.4	-19.9	0	56.46	-	-	74	-17.54	72	139	H
3	* 5.35001	27.38	RMS	34.4	-19.9	0	41.88	54	-12.12	-	-	72	139	H
4	* 5.35104	28.67	RMS	34.4	-19.9	0	43.17	54	-10.83	-	-	72	139	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	48.04	Pk	34.4	-19.9	0	62.54	-	-	74	-11.46	292	261	V
2	* 5.35317	50.27	Pk	34.4	-19.9	0	64.77	-	-	74	-9.23	292	261	V
3	* 5.35001	36.07	RMS	34.4	-19.9	0	50.57	54	-3.43	-	-	292	261	V
4	* 5.35015	35.83	RMS	34.4	-19.9	0	50.33	54	-3.67	-	-	292	261	V

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

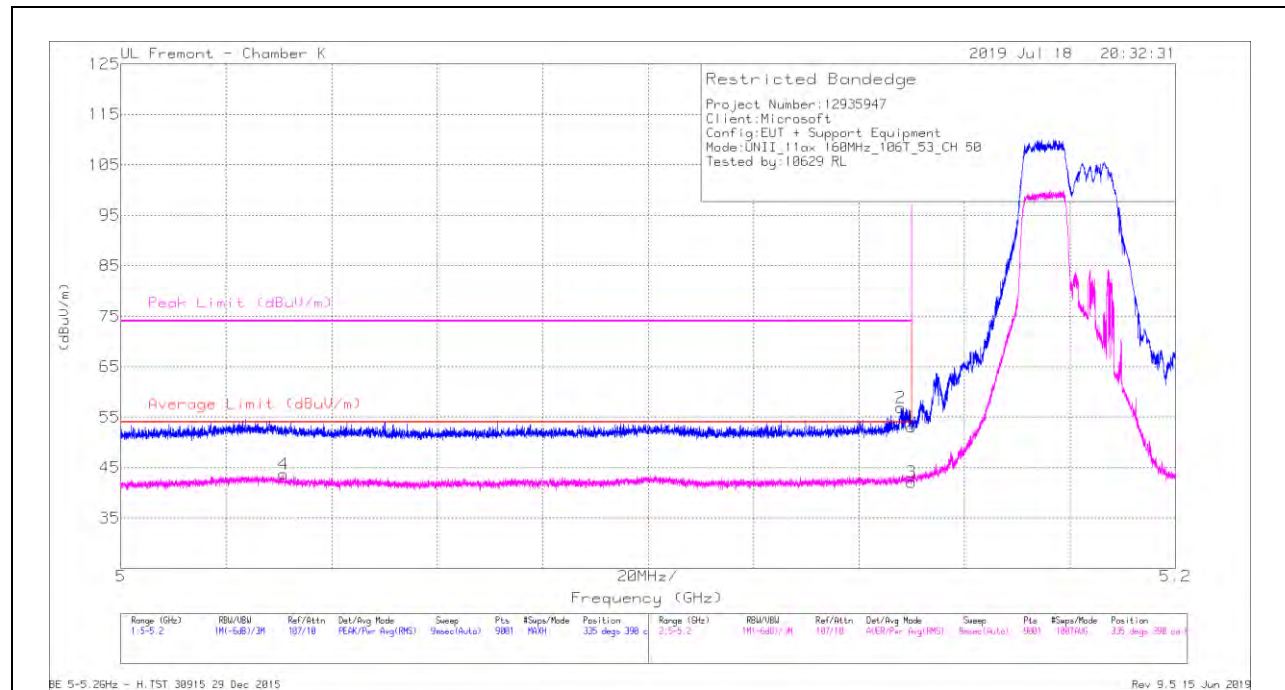
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 106-Tones, RU Index 53

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	38.97	Pk	34.2	-20.1	0	53.07	-	-	74	-20.93	335	390	H
2	*5.14798	42.77	Pk	34.2	-20.1	0	56.87	-	-	74	-17.13	335	390	H
3	*5.15	27.22	RMS	34.2	-20.1	0	41.32	54	-12.68	-	-	335	390	H
4	*5.03084	29.33	RMS	34.2	-20.7	0	42.83	54	-11.17	-	-	335	390	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 18 20:21:45

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Made: UNII_11ax_160MHz_106T_53_CH 50
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

20MHz/

Frequency (GHz)

Range (GHz) 1.5-5.2 RBW/18U 100dB/130 Ref/Attn 100/10 Det/Avg Mode PLK/Pre-Avg(MM) Sweep 200Hz/1000 Pts 1000 #Seps/Mode 1000 Position 20 steps 277 Hz

Range (GHz) 1.5-5.2 RBW/18U 100dB/130 Ref/Attn 100/10 Det/Avg Mode PLK/Pre-Avg(MM) Sweep 200Hz/1000 Pts 1000 #Seps/Mode 1000 Position 20 steps 277 Hz

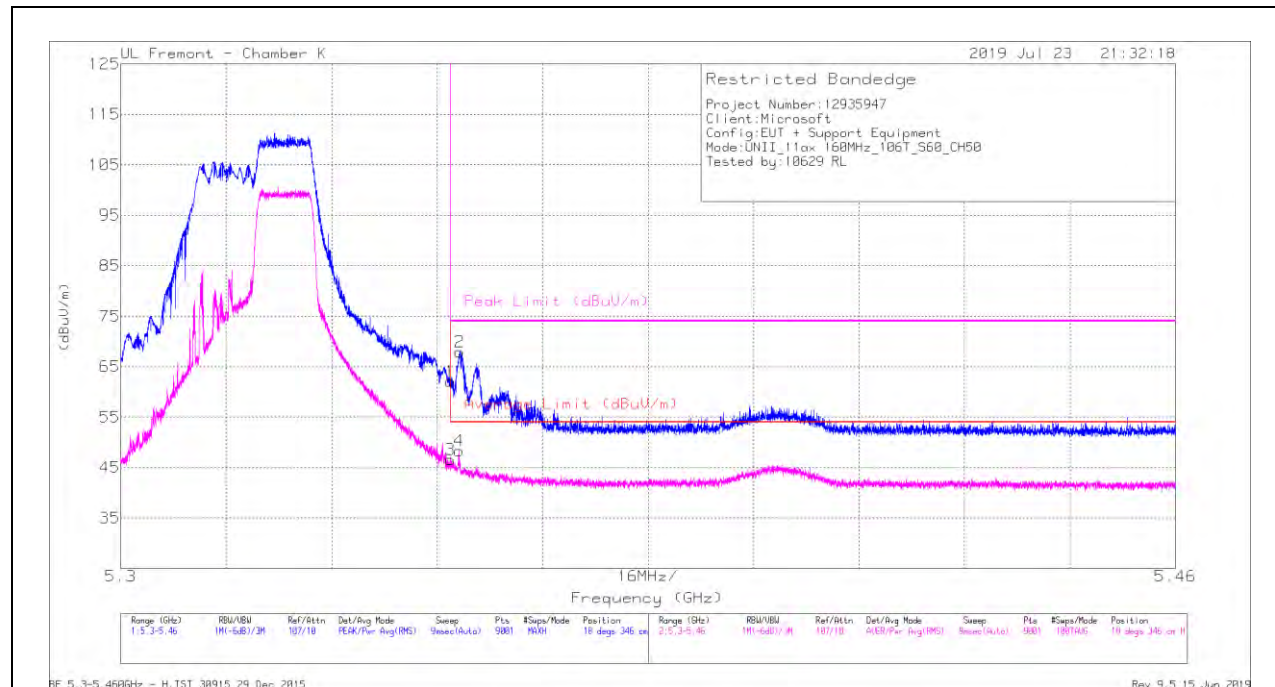
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.46	Pk	34.2	-20.1	0	60.56	-	-	74	-13.44	20	277	V
2	* 5.14929	49.82	Pk	34.2	-20.1	0	63.92	-	-	74	-10.08	20	277	V
3	* 5.15	30.37	RMS	34.2	-20.1	0	44.47	54	-9.53	-	-	20	277	V
4	* 5.14971	31	RMS	34.2	-20.1	0	45.1	54	-8.9	-	-	20	277	V

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 106-Tones, RU Index S60

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

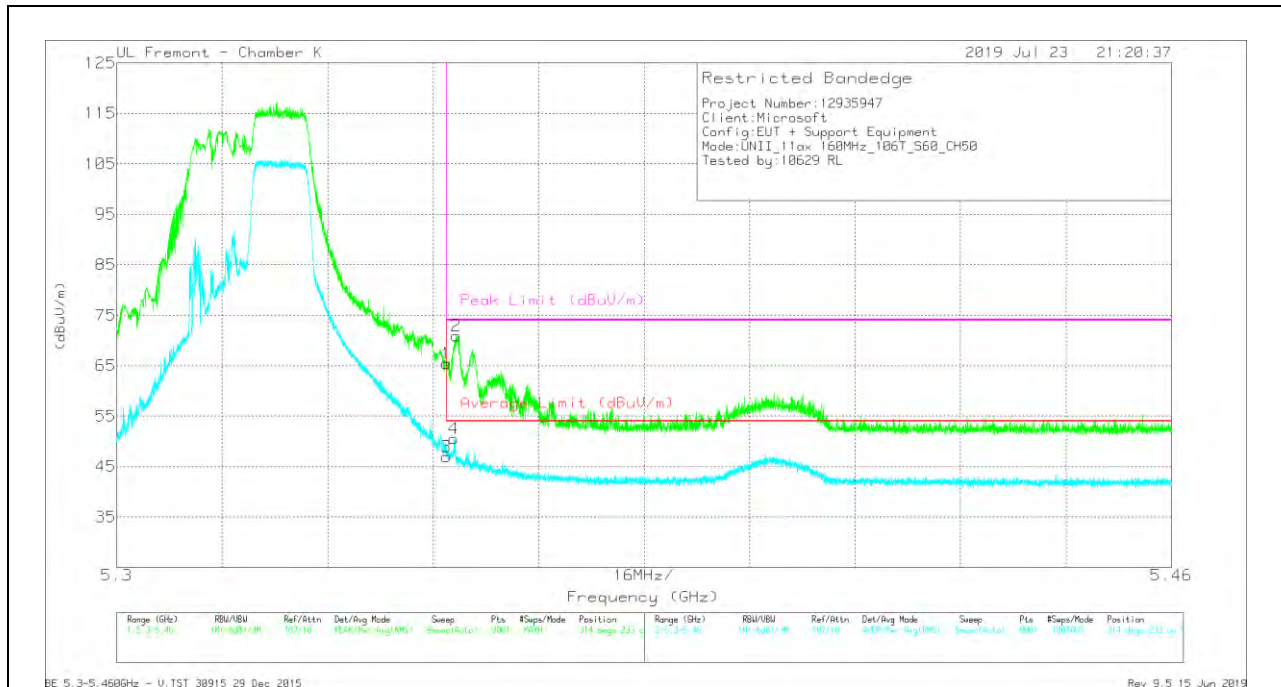
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	47.56	Pk	34.4	-19.9	0	62.06	-	-	74	-11.94	18	346	H
2	*5.35145	53.4	Pk	34.4	-19.9	0	67.9	-	-	74	-6.1	18	346	H
3	*5.35001	32.02	RMS	34.4	-19.9	0	46.52	54	-7.48	-	-	18	346	H
4	*5.35134	33.86	RMS	34.4	-19.9	0	48.36	54	-5.64	-	-	18	346	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	50.97	Pk	34.4	-19.9	0	65.47	-	-	74	-8.53	314	233	V
2	* 5.35152	56.42	Pk	34.4	-19.9	0	70.92	-	-	74	-3.08	314	233	V
3	* 5.35001	32.42	RMS	34.4	-19.9	0	46.92	54	-7.08	-	-	314	233	V
4	* 5.35118	36.01	RMS	34.4	-19.9	0	50.51	54	-3.49	-	-	314	233	V

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

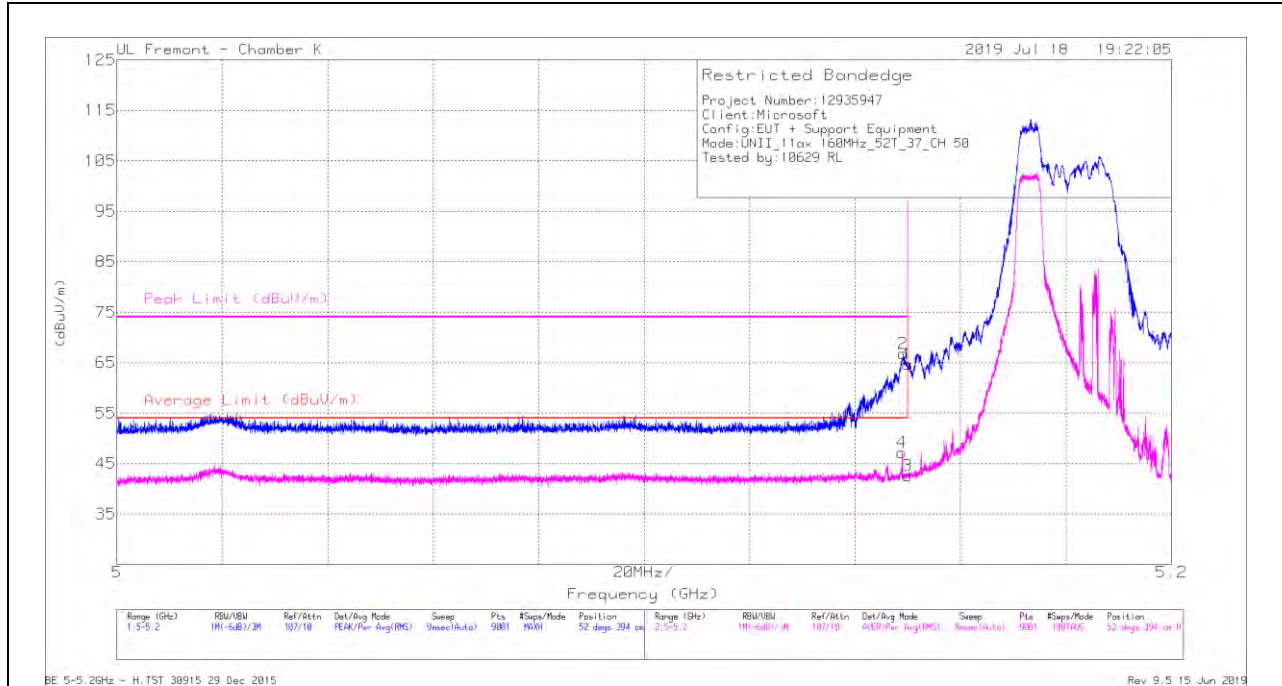
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 52-Tones, RU Index 37

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	50.61	Pk	34.2	-20.1	0	64.71	-	-	74	-9.29	52	394	H
2	*5.14915	52.74	Pk	34.2	-20.1	0	66.84	-	-	74	-7.16	52	394	H
3	*5.15	27.69	RMS	34.2	-20.1	0	41.79	54	-12.21	-	-	52	394	H
4	*5.14893	32.28	RMS	34.2	-20.1	0	46.38	54	-7.62	-	-	52	394	H

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

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber K

2019 Jul 18 19:12:20

Restricted Bandedge

Project Number: 12935947
 Client: Microsoft
 Config: EUT + Support Equipment
 Made: UNII_11ax_160MHz_52T_37_CH 58
 Tested by: 10629 RL

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

20MHz/

Frequency (GHz)

Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position	Range (GHz)	RBW/1BW	Ref/Attn	Det/Avg Mode	Sweep	Pls	#Seps/Mode	Position
1.5-5.2	100kHz/300	107/10	PEAK/Pre-Avg (MS)	Down/Full	1000	1000	15 steps 276.4m	2.0-5.2	100kHz/300	107/10	dB/Pre-Avg (MS)	Down/Full	1000	1000	15 steps 276.4m

BE 5-5.26GHz - U.TST.38915 29 Dec 2015

Rev. 9.5 15 Jun 2019

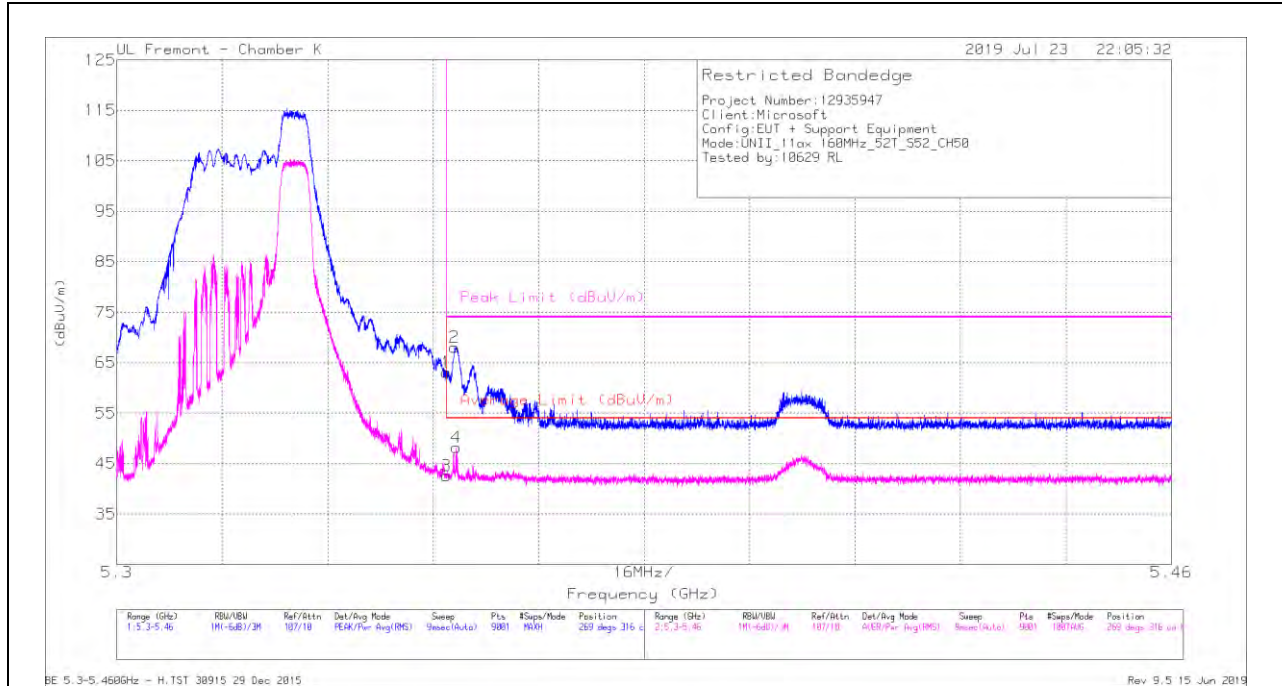
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	53.98	Pk	34.2	-20.1	0	68.08	-	-	74	-5.92	15	276	V
2	* 5.14911	57.92	Pk	34.2	-20.1	0	72.02	-	-	74	-1.98	15	276	V
3	* 5.15	28.84	RMS	34.2	-20.1	0	42.94	54	-11.06	-	-	15	276	V
4	* 5.149	37.23	RMS	34.2	-20.1	0	51.33	54	-2.67	-	-	15	276	V

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 52-Tones, RU Index S52

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

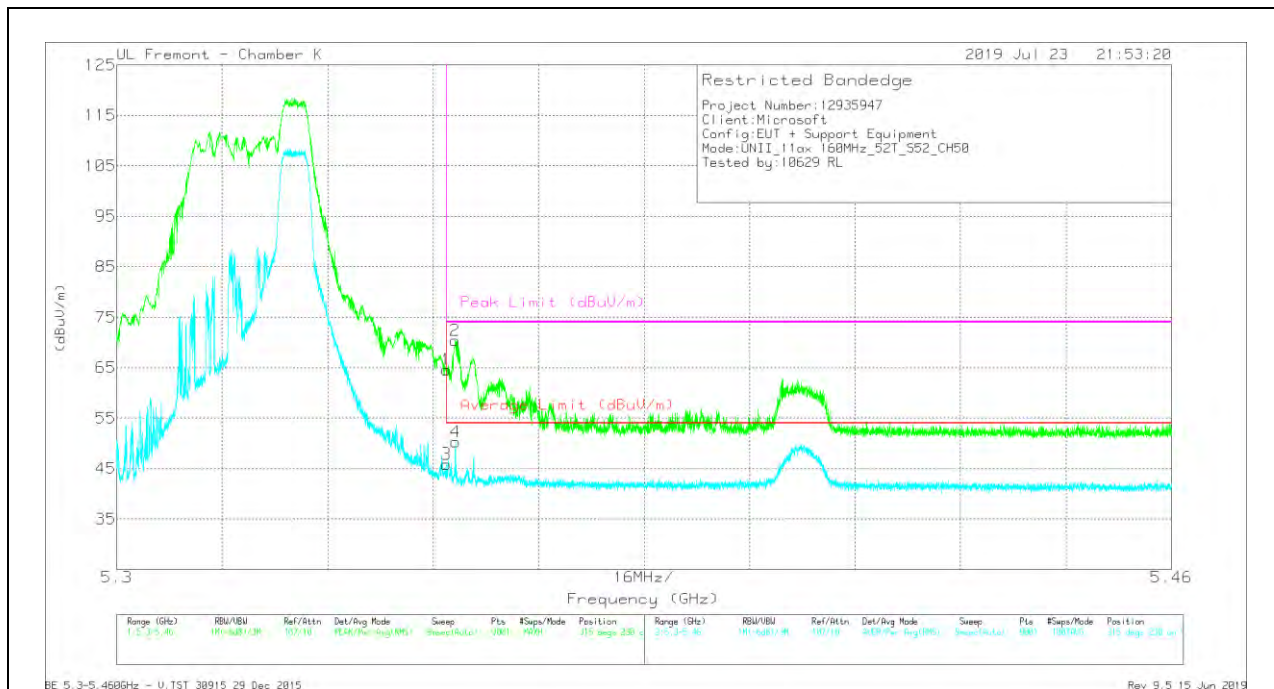
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	48.55	Pk	34.4	-19.9	0	63.05	-	-	74	-10.95	269	316	H
2	*5.35124	53.58	Pk	34.4	-19.9	0	68.08	-	-	74	-5.92	269	316	H
3	*5.35001	28.07	RMS	34.4	-19.9	0	42.57	54	-11.43	-	-	269	316	H
4	*5.35156	33.63	RMS	34.4	-19.9	0	48.13	54	-5.87	-	-	269	316	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	50.11	Pk	34.4	-19.9	0	64.61	-	-	74	-9.39	315	230	V
2	* 5.35133	55.92	Pk	34.4	-19.9	0	70.42	-	-	74	-3.58	315	230	V
3	* 5.35001	31.38	RMS	34.4	-19.9	0	45.88	54	-8.12	-	-	315	230	V
4	* 5.3514	35.74	RMS	34.4	-19.9	0	50.24	54	-3.76	-	-	315	230	V

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

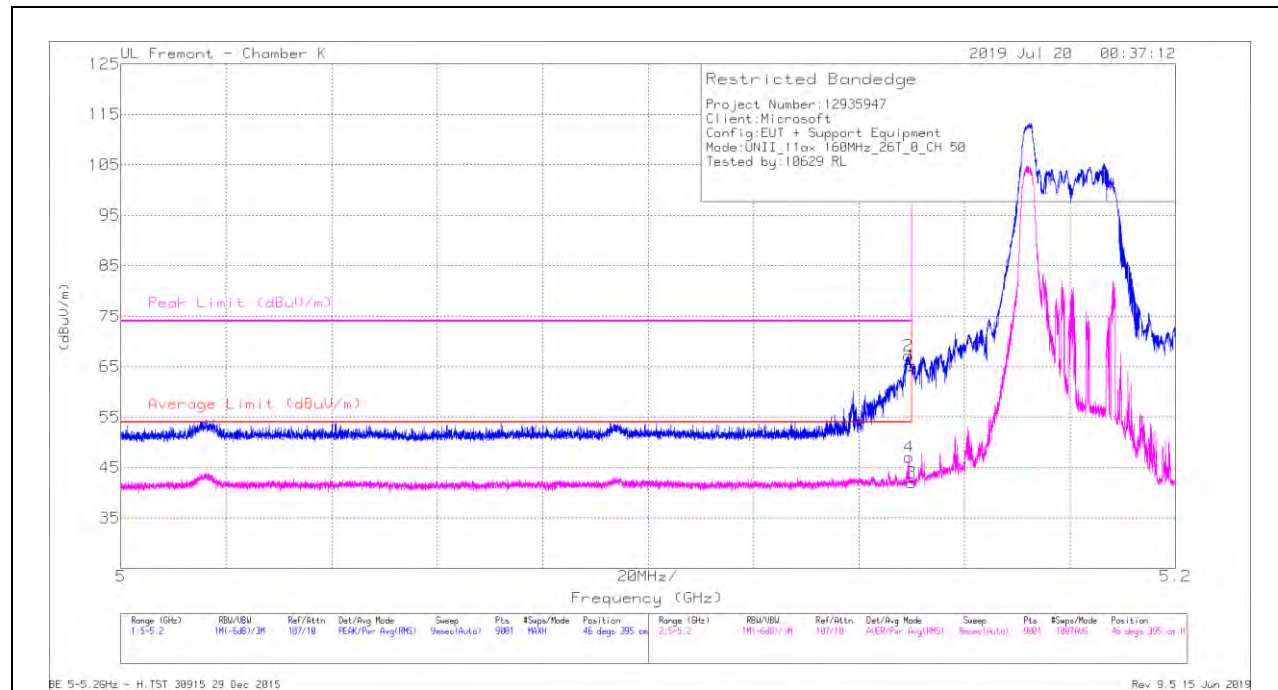
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 26-Tones, RU Index 0

BANDEDGE (MID CHANNEL LOW EDGE)

HORIZONTAL RESULT



Trace Markers

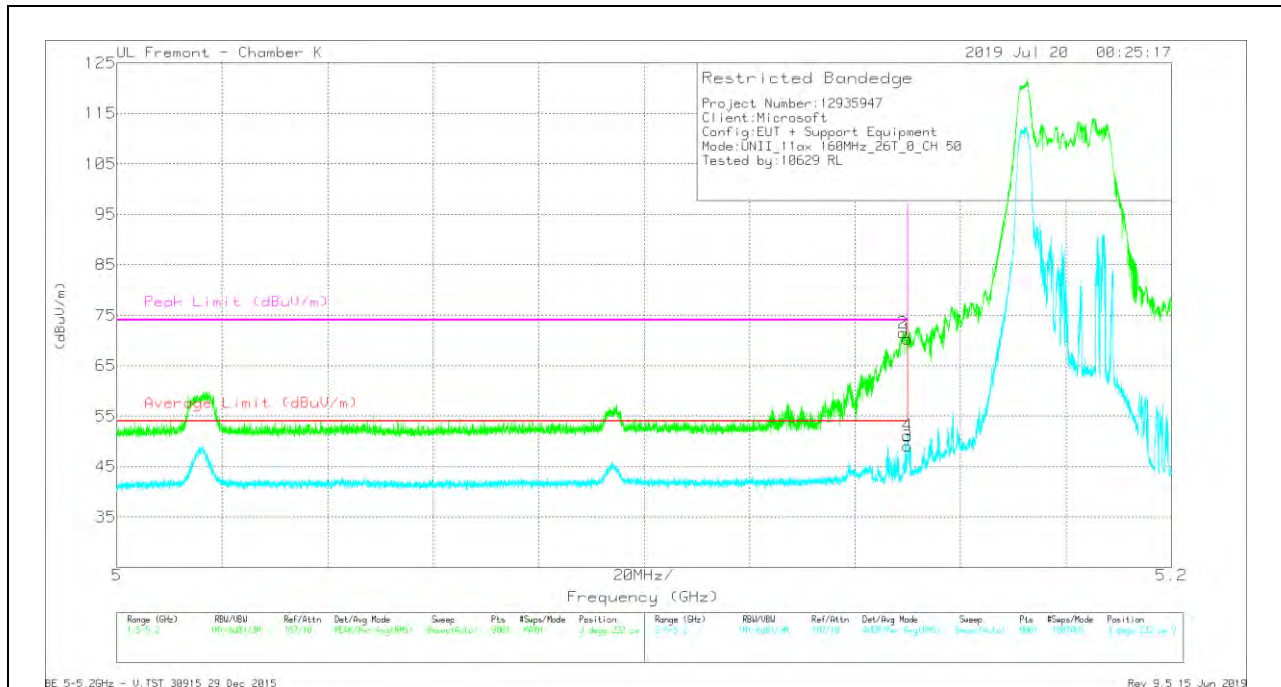
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/CbI/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.15	51.11	Pk	34.2	-20.1	0	65.21	-	-	74	-8.79	46	395	H
2	*5.14935	53.07	Pk	34.2	-20.1	0	67.17	-	-	74	-6.83	46	395	H
3	*5.15	27.37	RMS	34.2	-20.1	0	41.47	54	-12.53	-	-	46	395	H
4	*5.14944	32.38	RMS	34.2	-20.1	0	46.48	54	-7.52	-	-	46	395	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	56.18	Pk	34.2	-20.1	0	70.28	-	-	74	-3.72	3	232	V
2	* 5.14918	57.46	Pk	34.2	-20.1	0	71.56	-	-	74	-2.44	3	232	V
3	* 5.15	34.39	RMS	34.2	-20.1	0	48.49	54	-5.51	-	-	3	232	V
4	* 5.14998	36.59	RMS	34.2	-20.1	0	50.69	54	-3.31	-	-	3	232	V

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

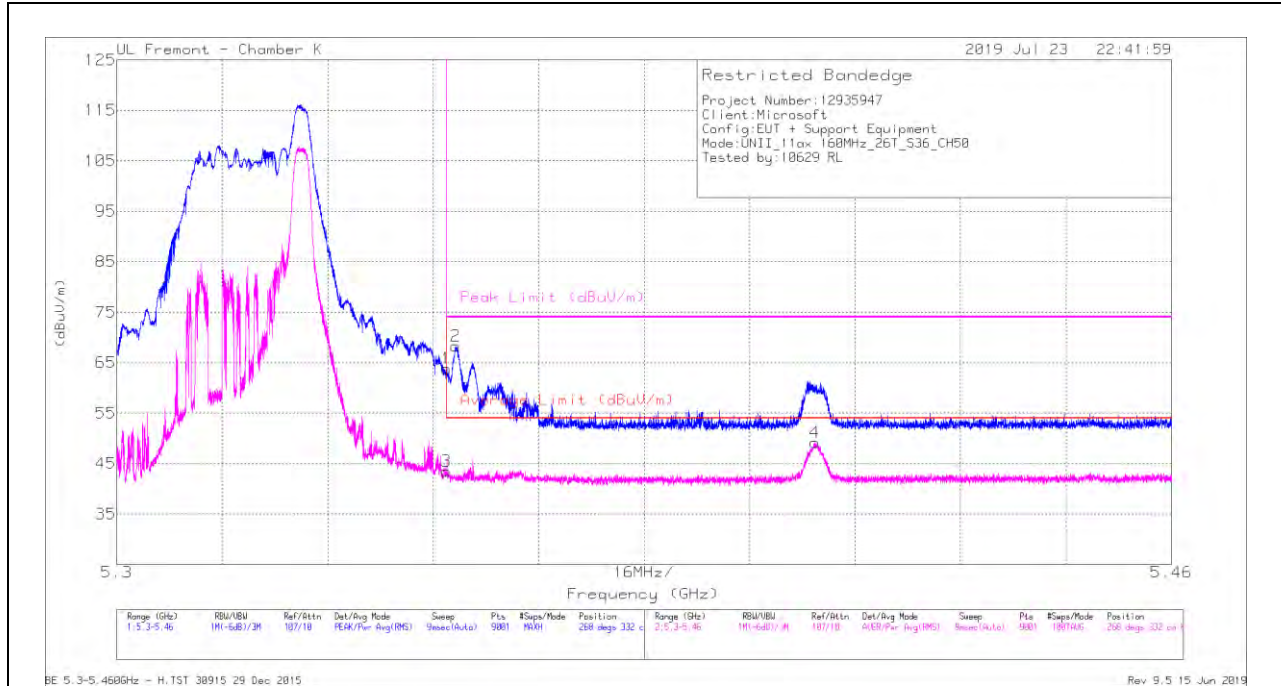
Pk - Peak detector

RMS - RMS detection

2TX Chain 0 + Chain 1 OFDMA MODE – 26-Tones, RU Index S36

BANDEDGE (MID CHANNEL HIGH EDGE)

HORIZONTAL RESULT



Trace Markers

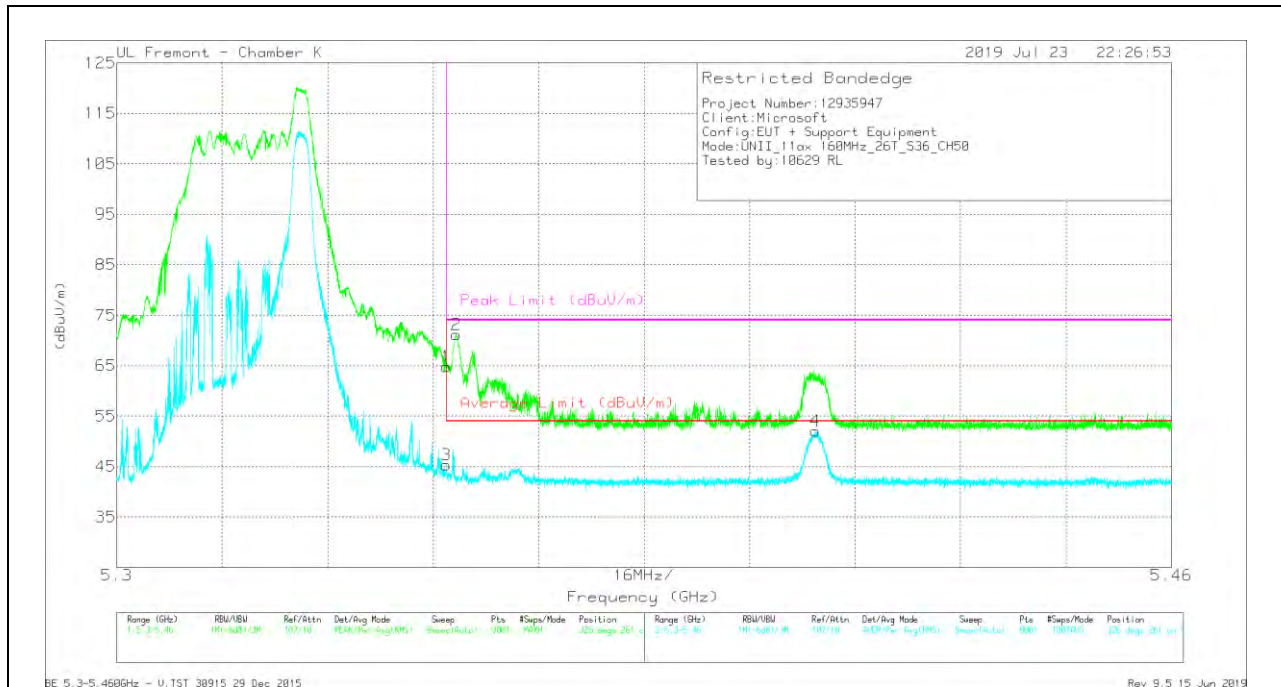
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5.35001	49.36	Pk	34.4	-19.9	0	63.86	-	-	74	-10.14	268	332	H
2	*5.3514	53.77	Pk	34.4	-19.9	0	68.27	-	-	74	-5.73	268	332	H
3	*5.35001	28.95	RMS	34.4	-19.9	0	43.45	54	-10.55	-	-	268	332	H
4	*5.40594	34.56	RMS	34.4	-19.8	0	49.16	54	-4.84	-	-	268	332	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	50.28	Pk	34.4	-19.9	0	64.78	-	-	74	-9.22	326	261	V
2	* 5.3515	56.67	Pk	34.4	-19.9	0	71.17	-	-	74	-2.83	326	261	V
3	* 5.35001	30.8	RMS	34.4	-19.9	0	45.3	54	-8.7	-	-	326	261	V
4	* 5.40601	37.45	RMS	34.4	-19.8	0	52.05	54	-1.95	-	-	326	261	V

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

Pk - Peak detector

RMS - RMS detection

10. SETUP PHOTOS

Please refer to 12935947-EP1 for setup photos

END OF TEST REPORT