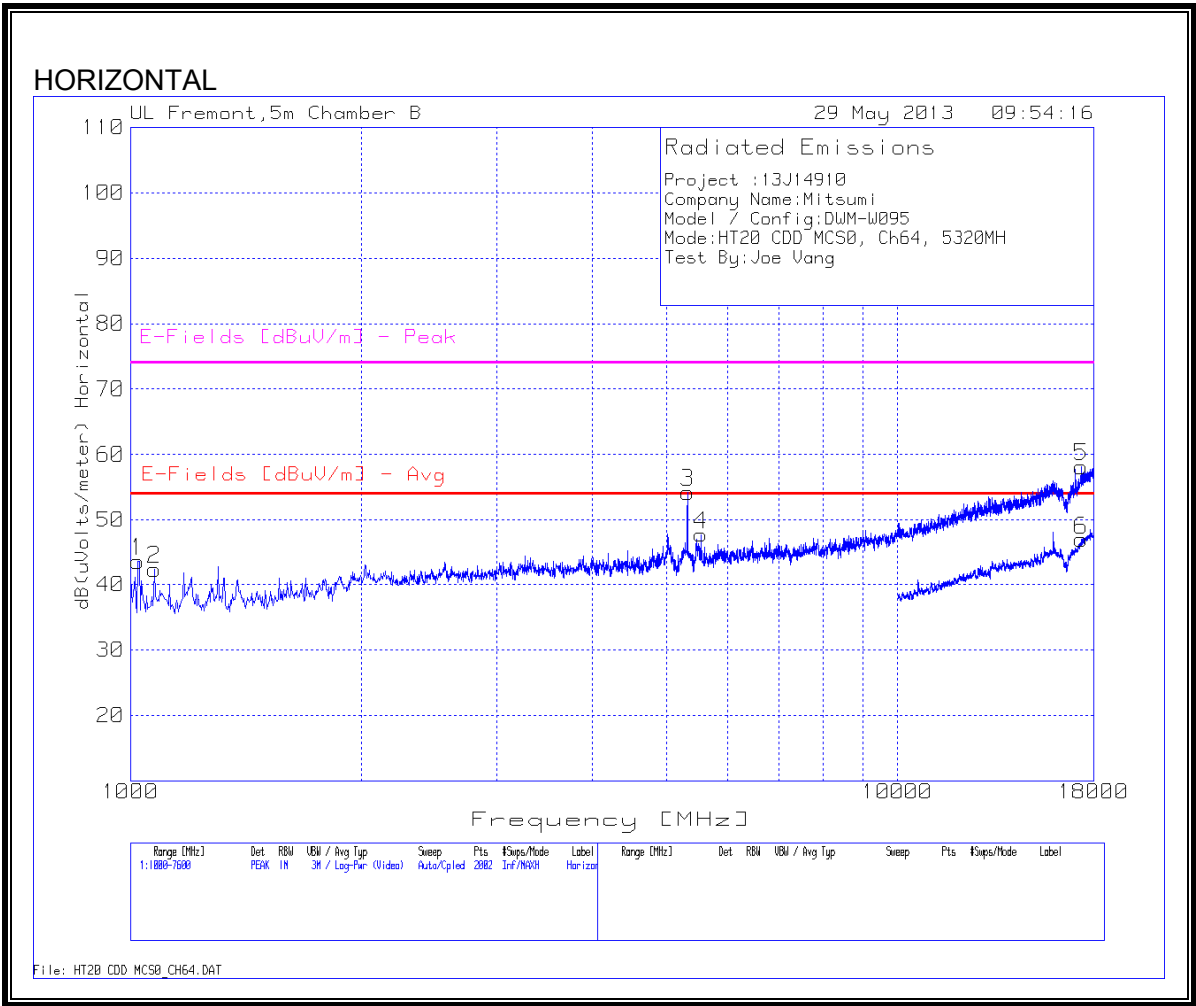
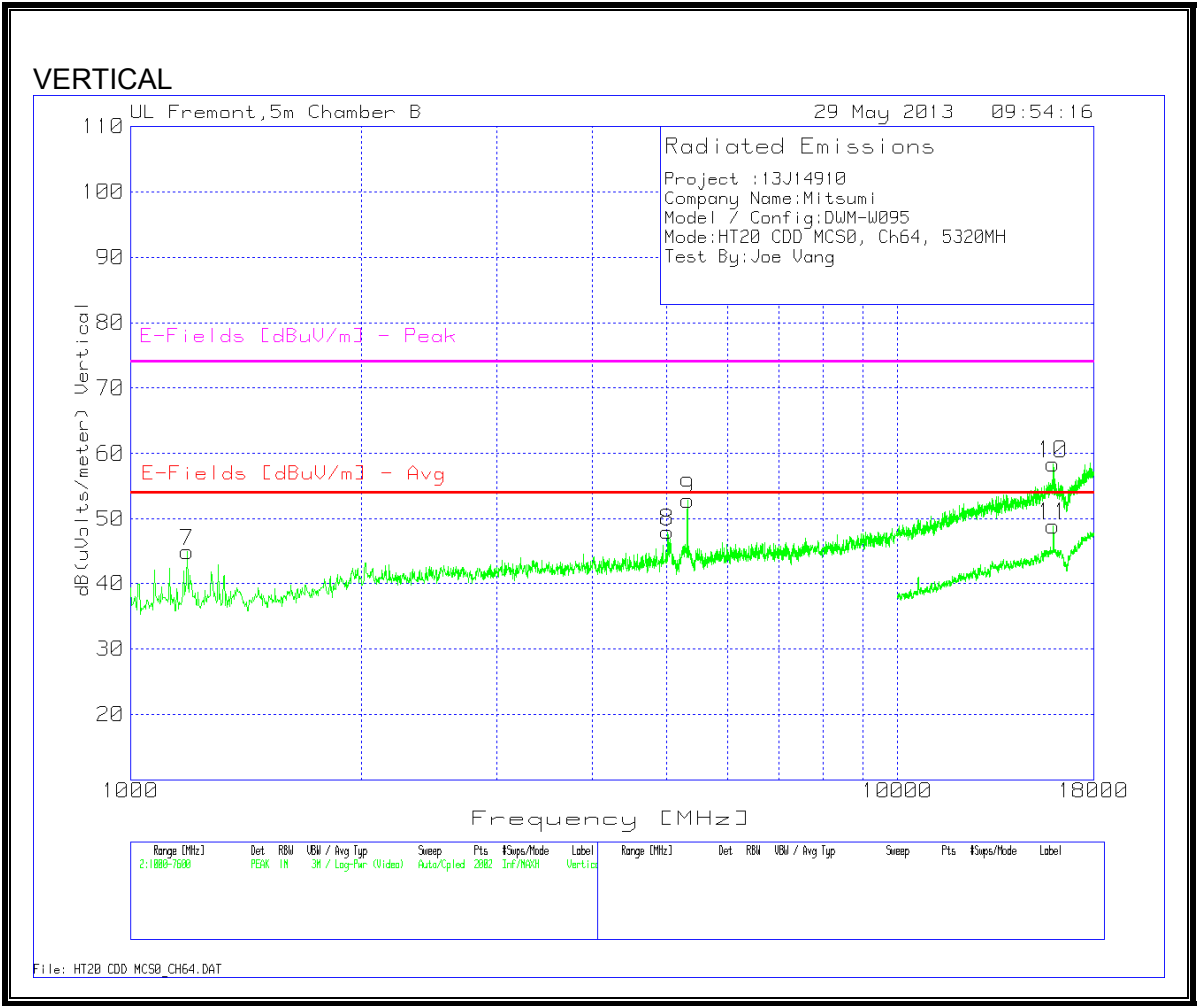


MID CHANNEL 60 DATA

Project :13J14910 Company Name:Mitsumi Model / Config:DWM-W095 Mode:HT20 CDD MCS0, Ch60, 5300MH Test By:Joe Vang														
Horizontal 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1023.088	46.76	PK	27.5	-36	3.2	0	41.46	53.97	-12.51	74	-32.54	100	Horz
2	1075.862	46.54	PK	27.8	-35.9	3.2	0	41.64	53.97	-12.33	74	-32.36	100	Horz
3	5004.198	41.28	PK	34.6	-34.9	7.2	0.7	48.88	53.97	-5.09	74	-25.12	200	Horz
*4	5307.646	46.31	PK	34.9	-34.9	7.4	0.9	54.61	-	-	-	-	200	Horz
5	5522.039	39.55	PK	34.9	-34.9	7.6	0.7	47.85	-	-	68.2	-20.35	100	Horz
Vertical 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	1000	49.64	PK	27.4	-36	3.2	0	44.24	53.97	-9.73	74	-29.76	200	Vert
7	5000.9	41.04	PK	34.6	-34.9	7.2	0.7	48.64	53.97	-5.33	74	-25.36	200	Vert
*8	5301.049	47.61	PK	34.9	-34.9	7.4	0.9	55.91	-	-	-	-	200	Vert
Horizontal 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
9	10600.098	36.63	PK	38.2	-34.3	10.8	0.4	51.73	-	-	74	-22.27	100	Horz
10	15905.447	34.68	PK	41.5	-32.9	13.7	0.2	57.18	-	-	74	-16.82	100	Horz
Vertical 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
13	10604.098	36.74	PK	38.2	-34.3	10.8	0.4	51.84	-	-	74	-22.16	100	Vert
14	15900.25	37.24	PK	41.5	-32.9	13.7	0.2	59.74	-	-	74	-14.26	200	Vert
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	10599.7	25.85	PK	38.2	-34.3	10.8	0.4	40.95	-	-	68.2	-27.25	200	Horz
12	15901.049	26.39	PK	41.5	-32.9	13.7	0.2	48.89	53.97	-5.08	74	-25.11	100	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
15	10599.7	27.05	PK	38.2	-34.3	10.8	0.4	42.15	-	-	68.2	-26.05	200	Vert
16	15901.049	28.96	PK	41.5	-32.9	13.7	0.2	51.46	53.97	-2.51	74	-22.54	200	Vert
Horizontal 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
3	5000.32	27.61	Av	34.6	-34.9	7.2	0.6	36.11	53.97	-17.86	-	-	158	Horz
Vertical 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	4998.25	33.3	Av	34.6	-34.9	7.2	0.6	40.8	53.97	-13.17	-	-	140	Vert
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
12	15902.75	26.77	Av	41.5	-32.9	13.7	0.2	49.27	53.97	-4.7	-	-	158	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
16	15907.6	27.69	Av	41.5	-32.9	13.7	0.2	50.19	53.97	-3.78	-	-	166	Vert
* Fundamental														
PK - Peak detector QP - Quasi-Peak detector Av - Average detector														

HARMONICS AND SPURIOUS EMISSIONS
HIGH CHANNEL GRAPH





HIGH CHANNEL 64 DATA

Project :1314910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:HT20 CDD MCS0, Ch64, 5320MH
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1023.088	48.85	PK	27.5	-36	3.2	0	43.55	53.97	-10.42	74	-30.45	100	Horz
2	1075.862	47.27	PK	27.8	-35.9	3.2	0	42.37	53.97	-11.6	74	-31.63	100	Horz
*3	5327.436	45.83	PK	34.9	-34.9	7.5	0.9	54.23	-	-	-	-	100	Horz
4	5541.829	39.57	PK	35	-34.9	7.6	0.4	47.67	-	-	68.2	-20.53	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	1184.708	48.87	PK	28.3	-35.7	3.4	0	44.87	53.97	-9.1	74	-29.13	200	Vert
8	5017.391	40.24	PK	34.6	-34.9	7.2	0.9	48.04	53.97	-5.93	74	-25.96	200	Vert
*9	5320.84	44.44	PK	34.9	-34.9	7.5	0.9	52.84	-	-	-	-	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
5	17339.93	33.25	PK	41.7	-31.6	14.5	0.3	58.15	-	-	68.2	-10.05	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
10	15957.421	35.67	PK	41.5	-32.9	13.7	0.4	58.37	-	-	74	-15.63	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	17356.322	21.89	PK	41.8	-31.6	14.5	0.3	46.89	-	-	68.2	-21.31	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	15957.021	26.2	PK	41.5	-32.9	13.7	0.4	48.9	53.97	-5.07	74	-25.1	200	Vert

Vertical 10000 - 18000MHz

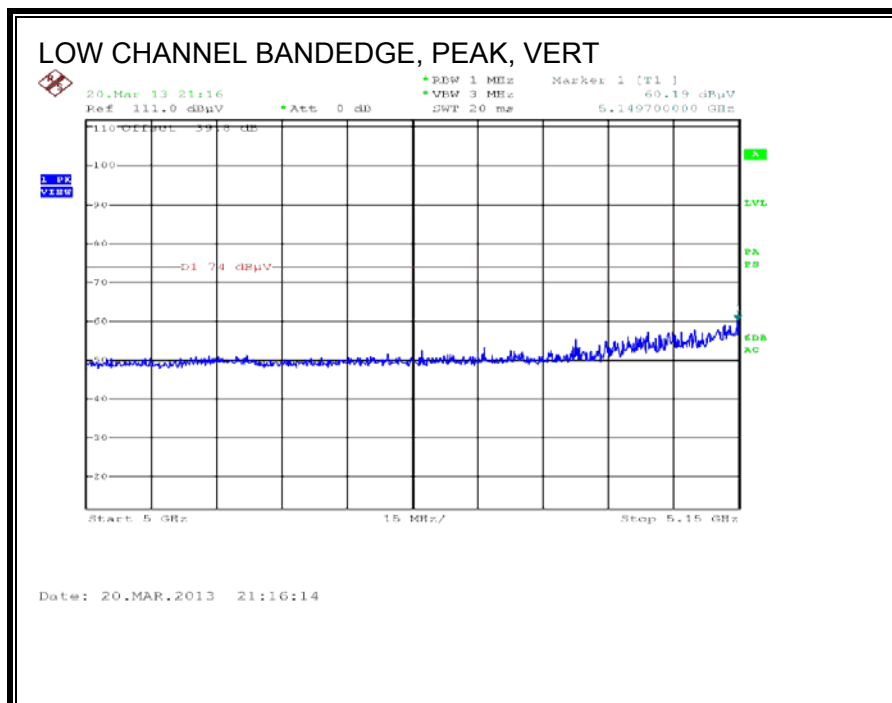
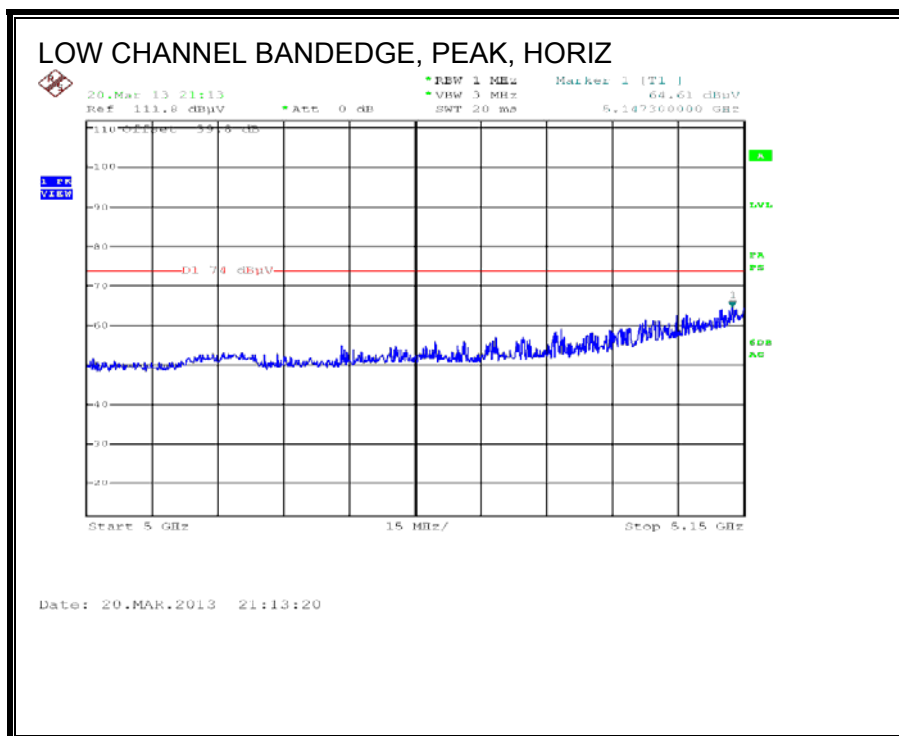
Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	15957.32	26.69	Av	41.5	-32.9	13.7	0.4	46.39	53.97	-7.58	-	-	188	Vert

*: Fundamental

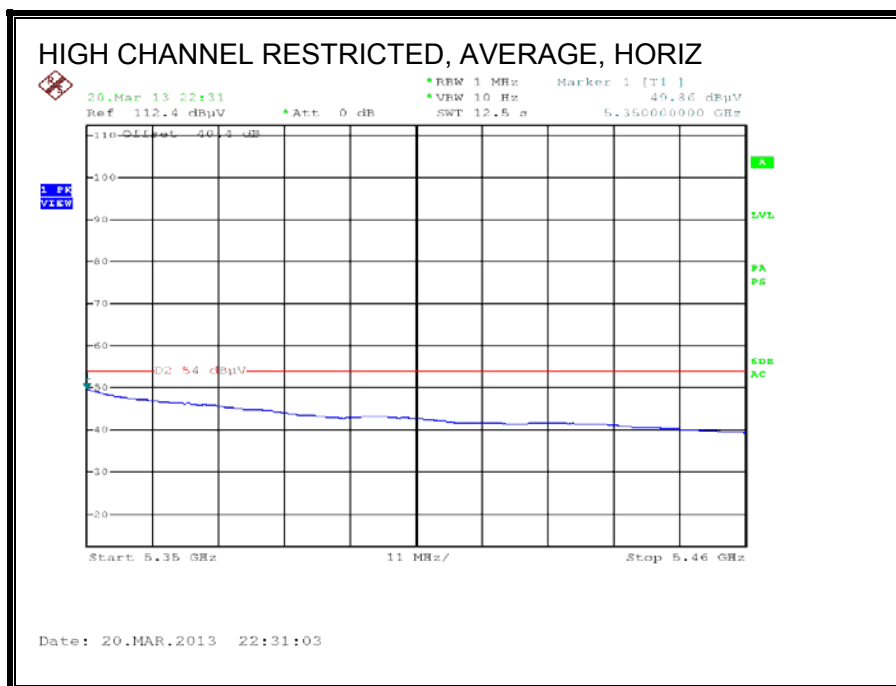
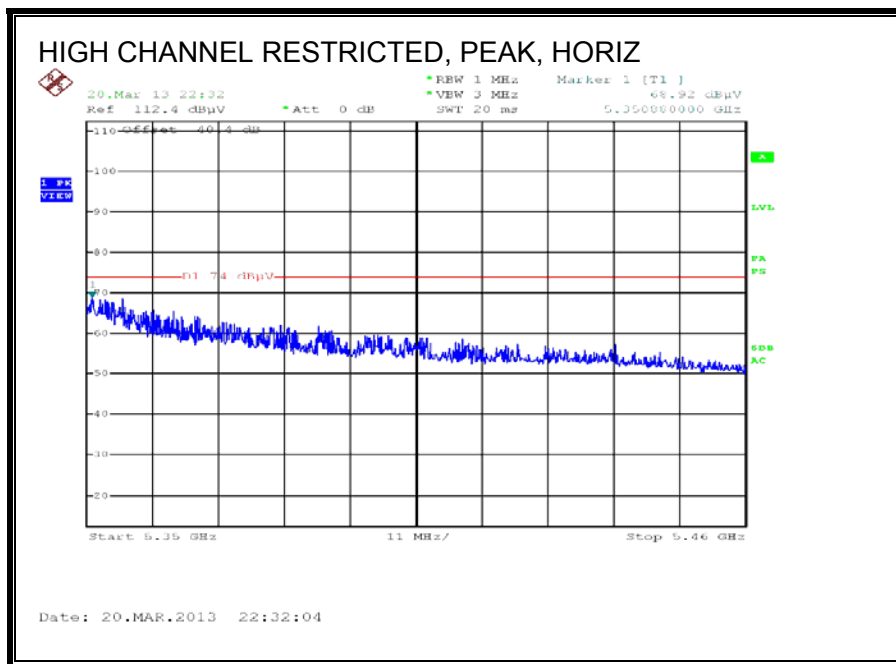
PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

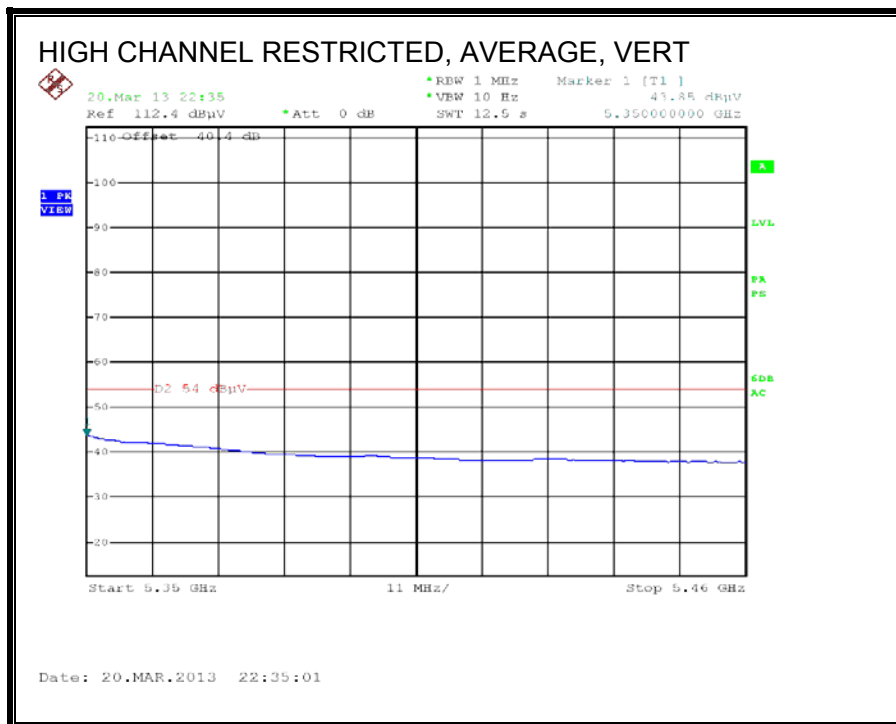
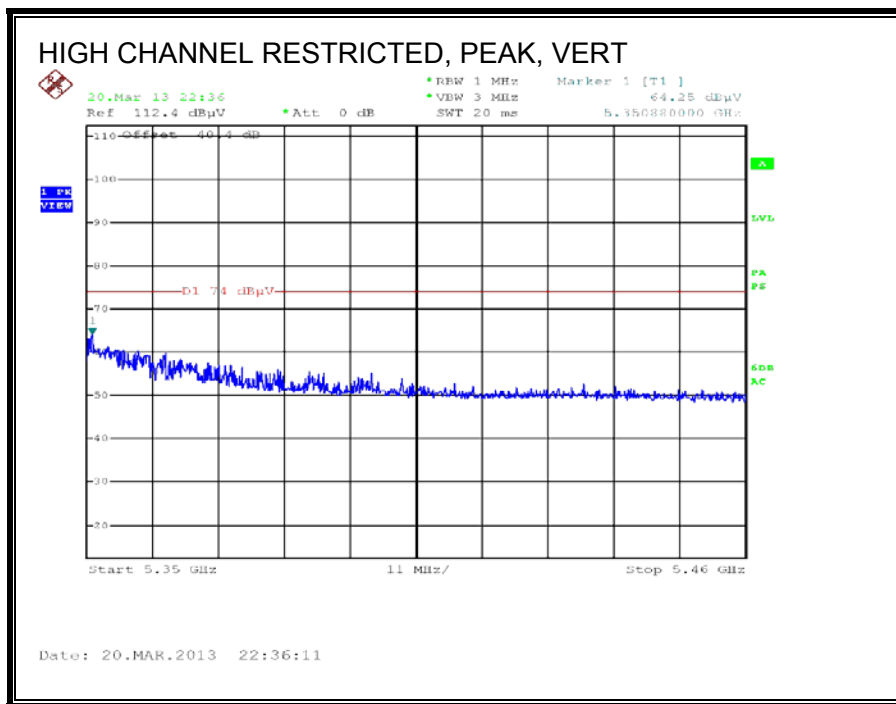
9.9. 802.11n HT20 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL)

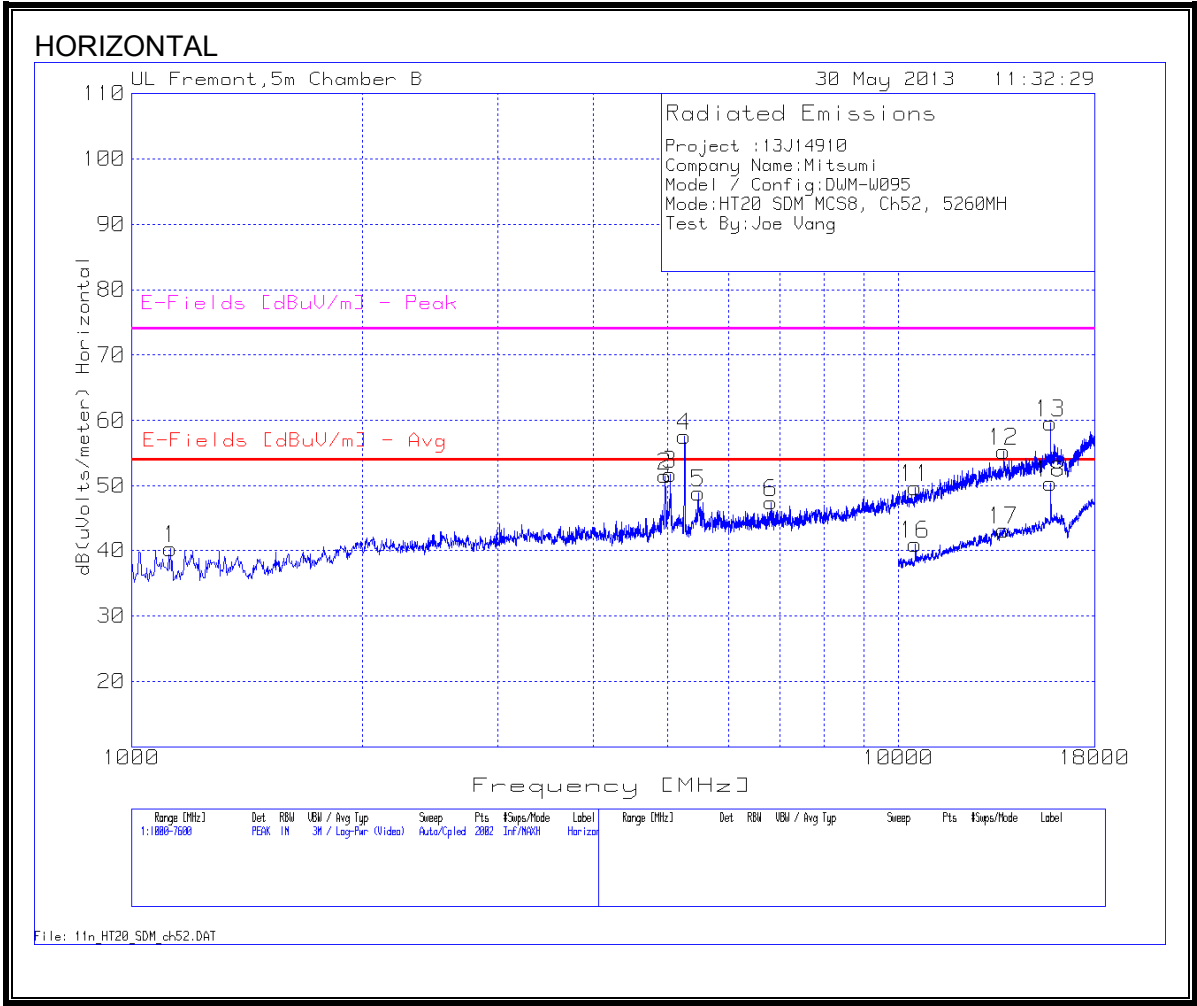


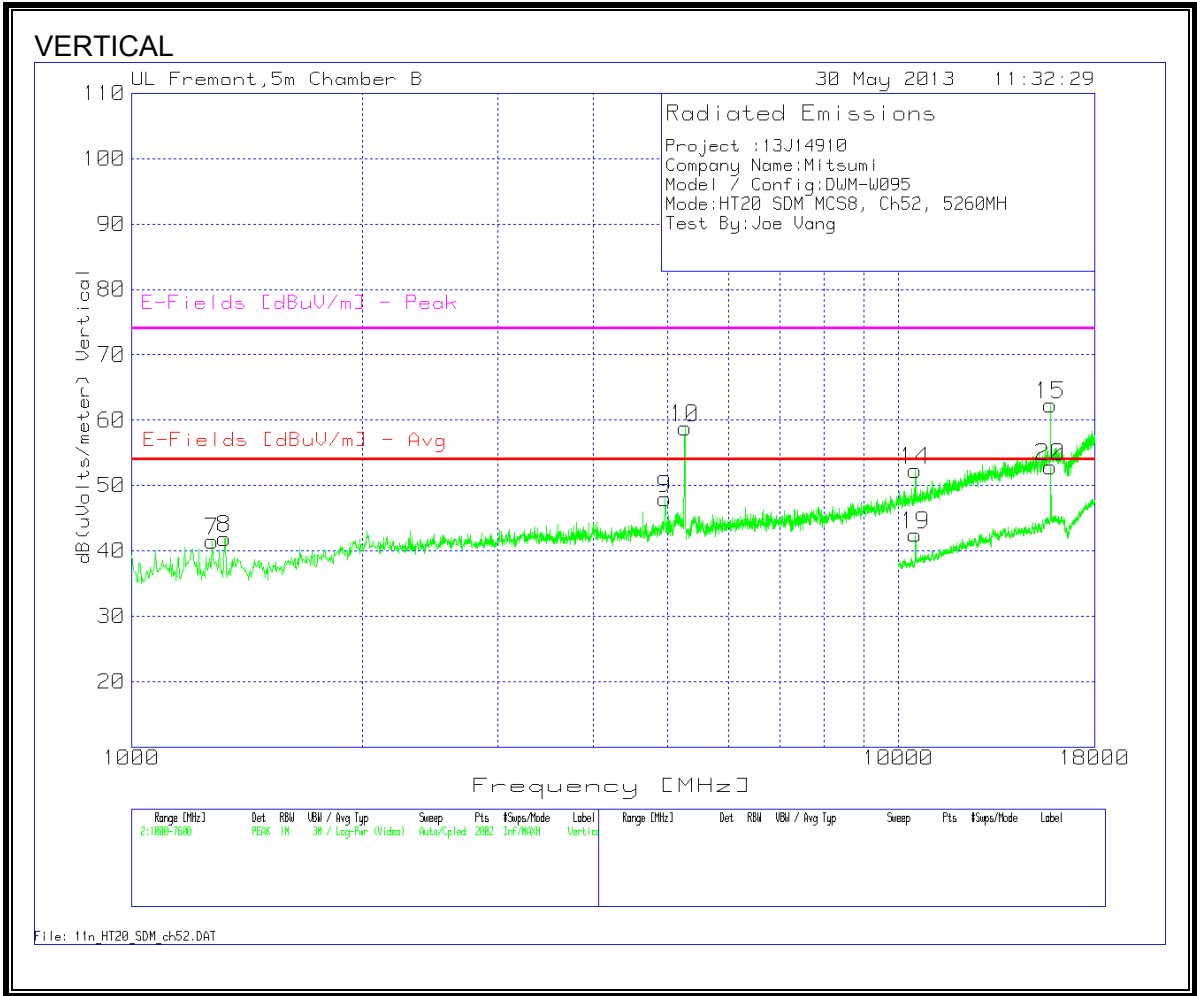
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS
LOW CHANNEL GRAPH





LOW CHANNEL 52 DATA

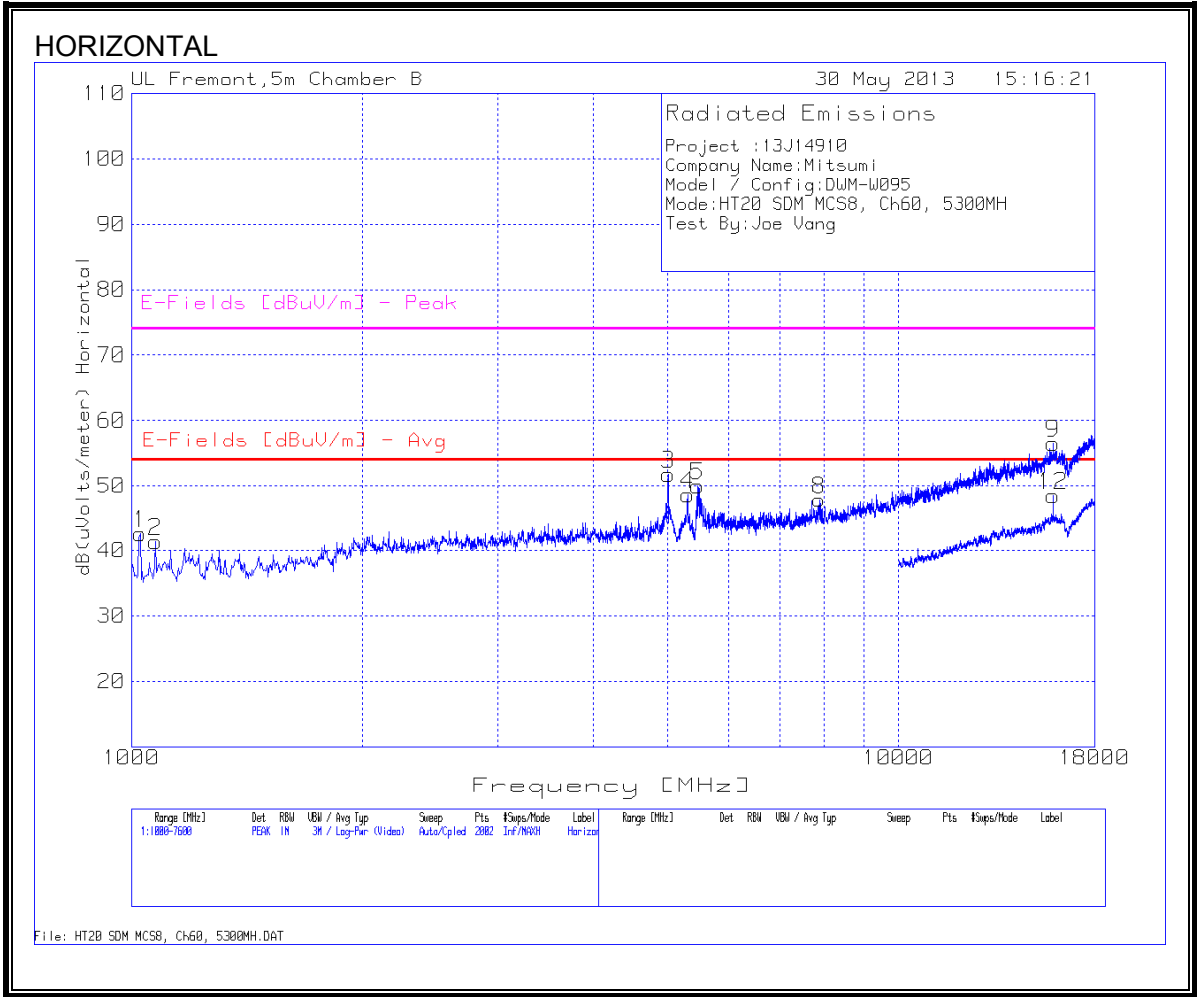
Project :13J14910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:HT20 SOM MCS8, Ch52, 5260MH
Test By:Joe Vang

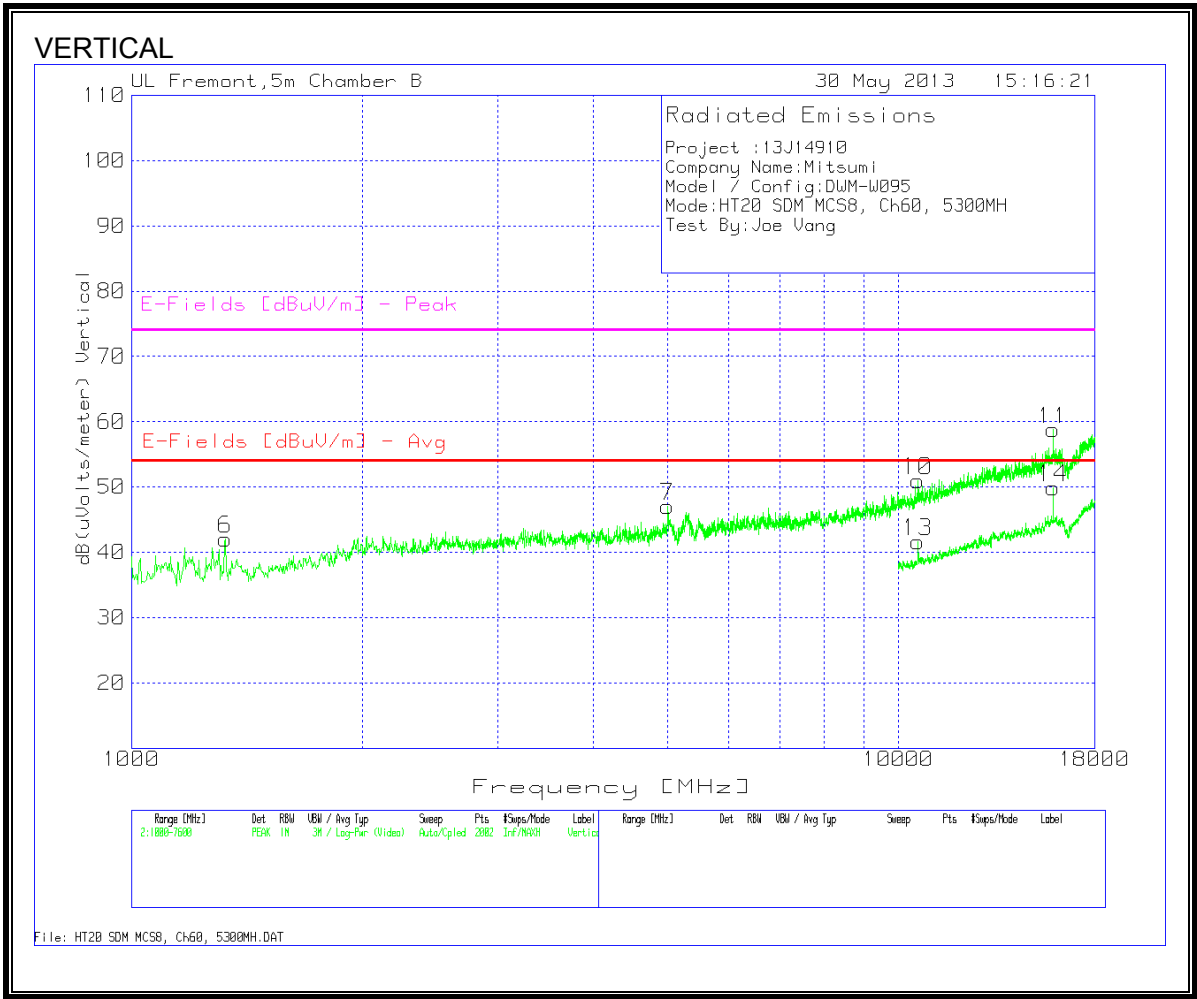
Horizontal 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1125.337	44.74	PK	28	-35.8	3.3	0	40.24	53.97	-13.73	74	-33.76	200	Horz
2	4961.319	44.38	PK	34.6	-34.9	7.2	0.3	51.58	53.97	-2.39	74	-22.42	172	Horz
3	5043.778	43.94	PK	34.7	-34.9	7.2	0.9	51.84	53.97	-2.13	74	-22.16	172	Horz
*4	5258.171	49.28	PK	34.9	-34.9	7.4	0.9	57.58	-	-	-	-	172	Horz
5	5479.16	40.49	PK	34.9	-34.9	7.6	0.9	48.99	-	-	68.2	-19.21	172	Horz
6	6814.993	38	PK	35.8	-35	8.5	0.1	47.4	-	-	68.2	-20.8	200	Horz
Vertical 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	1273.763	45.12	PK	28.6	-35.6	3.4	0	41.52	-	-	68.2	-26.68	100	Vert
8	1323.238	45.42	PK	28.5	-35.5	3.5	0	41.92	53.97	-12.05	74	-32.08	200	Vert
9	4964.618	40.81	PK	34.6	-34.9	7.2	0.3	48.01	53.97	-5.96	74	-25.99	200	Vert
*10	5264.768	50.53	PK	34.9	-34.9	7.4	0.9	58.83	-	-	-	-	200	Vert
Horizontal 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	10515.742	35.02	PK	38.2	-34.4	10.7	0.2	49.72	-	-	68.2	-18.48	200	Horz
12	13717.341	35.36	PK	39.1	-32	12.5	0.4	55.36	-	-	68.2	-12.84	200	Horz
13	15785.907	37.4	PK	41.3	-32.9	13.6	0.2	59.6	-	-	74	-14.4	100	Horz
Vertical 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	10520.94	37.58	PK	38.2	-34.4	10.7	0.2	52.28	-	-	74	-21.72	200	Vert
15	15780.71	40.1	PK	41.3	-32.9	13.6	0.2	62.3	-	-	68.2	-5.9	200	Vert
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
16	10519.74	26.24	PK	38.2	-34.4	10.7	0.2	40.94	-	-	68.2	-27.26	100	Horz
17	13722.139	23.04	PK	39.1	-32	12.5	0.5	43.14	-	-	68.2	-25.06	200	Horz
18	15785.107	28.17	PK	41.3	-32.9	13.6	0.2	50.37	53.97	-3.6	74	-23.63	100	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
19	10523.738	27.81	PK	38.2	-34.4	10.7	0.2	42.51	-	-	68.2	-25.69	200	Vert
20	15781.109	30.66	PK	41.3	-32.9	13.6	0.2	52.86	53.97	-1.11	74	-21.14	200	Vert
Horizontal 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
2	4959.97	31.74	Av	34.6	-34.9	7.2	0.3	38.94	53.97	-15.03	-	-	127	Horz
3	5040.73	37.84	Av	34.6	-34.9	7.2	0.9	45.64	53.97	-8.33	-	-	146	Horz
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
18	15782.11	25.9	Av	41.3	-32.9	13.6	0.2	48.1	53.97	-5.87	-	-	133	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
20	15777.86	28.54	Av	41.3	-32.9	13.6	0.2	50.74	53.97	-3.23	-	-	133	Vert

* Fundamental Frequencies

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

HARMONICS AND SPURIOUS EMISSIONS
MID CHANNEL GRAPH





MID CHANNEL 60 DATA

Project :13114910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:HT20 SDM MCS8, Ch60, 5300MH
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1026.387	47.94	PK	27.5	-36	3.2	0	42.64	53.97	-11.33	74	-31.36	162	Horz
2	1075.862	46.22	PK	27.8	-35.9	3.2	0	41.32	53.97	-12.65	74	-32.68	162	Horz
3	5007.496	44.06	PK	34.6	-34.9	7.2	0.8	51.76	53.97	-2.21	74	-22.24	162	Horz
*4	5307.646	40.35	PK	34.9	-34.9	7.4	0.9	48.65	-	-	-	-	162	Horz
5	5475.862	41.53	PK	34.9	-34.9	7.6	0.9	50.03	-	-	68.2	-18.17	162	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	1326.537	45.55	PK	28.5	-35.5	3.5	0	42.05	53.97	-11.92	74	-31.95	200	Vert
7	5004.198	39.47	PK	34.6	-34.9	7.2	0.7	47.07	53.97	-6.9	74	-26.93	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
8	7880.66	37.12	PK	36.1	-35.1	9.2	0.5	47.82	-	-	68.2	-20.38	100	Horz
9	15900.25	34.06	PK	41.5	-32.9	13.7	0.2	56.56	-	-	74	-17.44	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
10	10598.901	35.87	PK	38.2	-34.3	10.8	0.4	50.97	-	-	68.2	-17.23	100	Vert
11	15905.447	36.26	PK	41.5	-32.9	13.7	0.2	58.76	-	-	74	-15.24	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
12	15901.049	26.06	PK	41.5	-32.9	13.7	0.2	48.56	53.97	-5.41	74	-25.44	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
13	10599.7	26.52	PK	38.2	-34.3	10.8	0.4	41.62	-	-	68.2	-26.58	200	Vert
14	15897.051	27.38	PK	41.5	-32.9	13.7	0.2	49.88	53.97	-4.09	74	-24.12	200	Vert

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
3	5003.55	33.74	Av	34.6	-34.9	7.2	0.7	41.34	53.97	-12.63	-	-	169	Horz

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
12	15898.2	24.84	Av	41.5	-32.9	13.7	0.2	47.34	53.97	-6.63	-	-	163	Horz

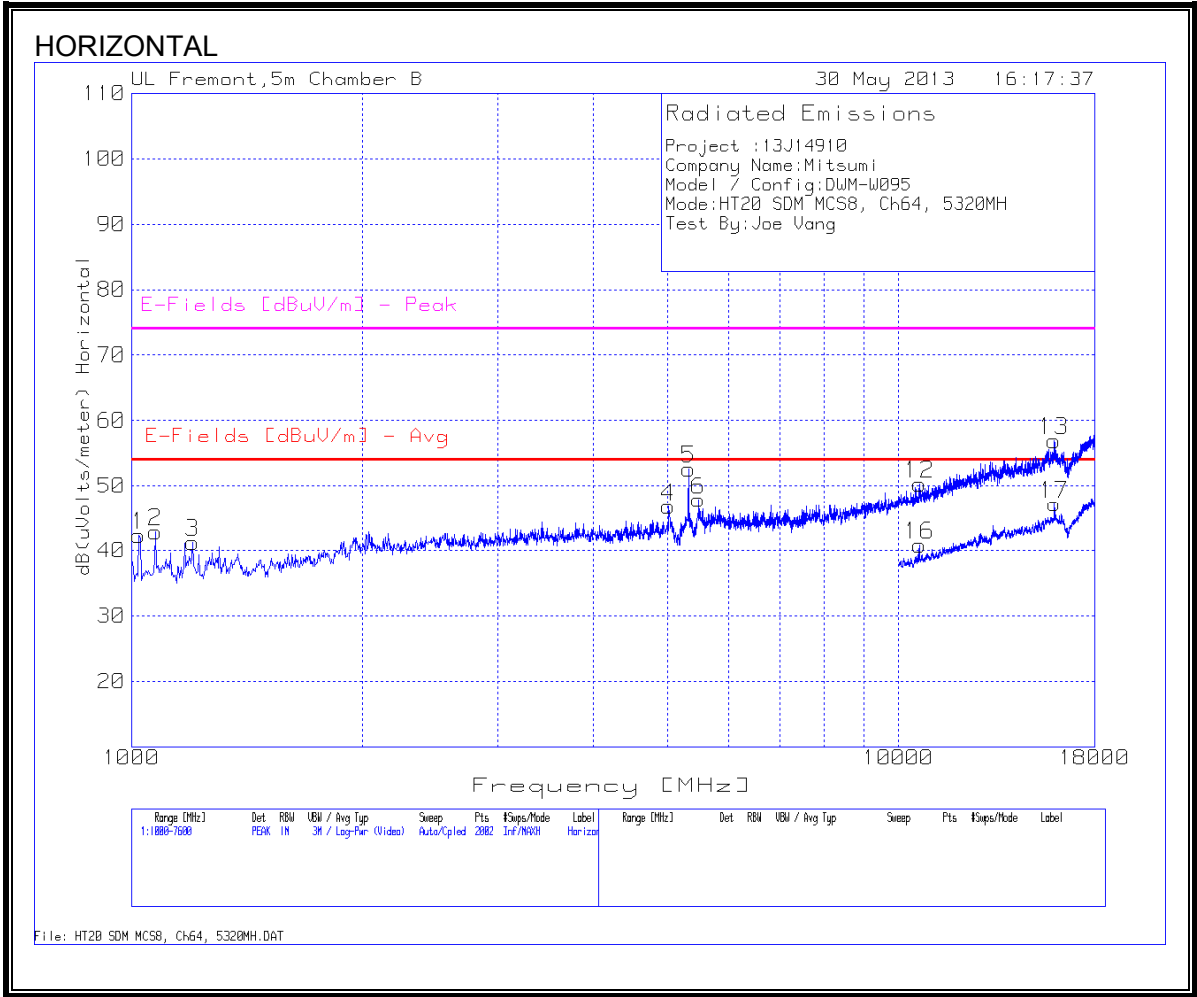
Vertical 10000 - 18000MHz

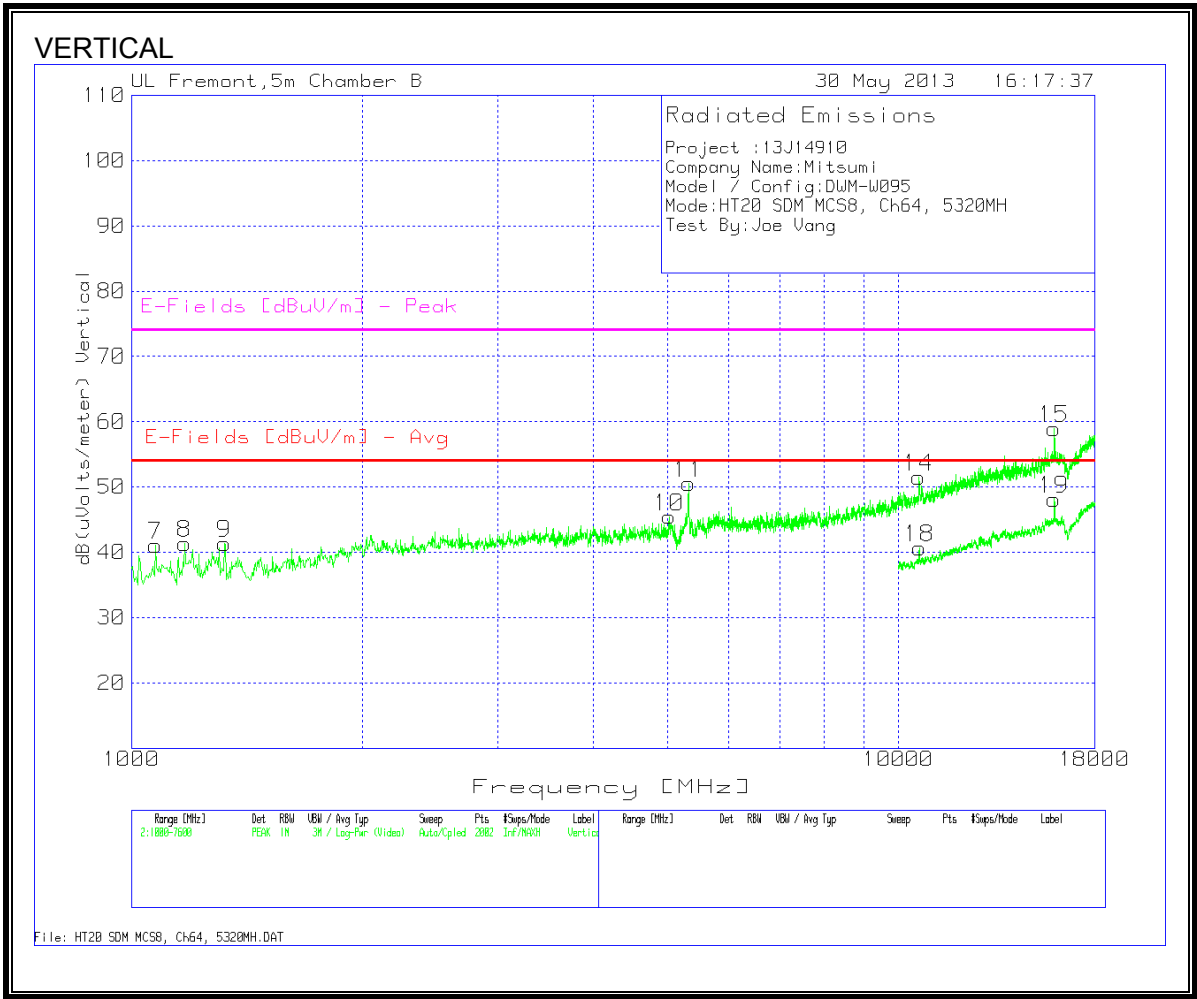
Marker No.	Test Frequency [MHz]	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	15894.35	23.12	Av	41.5	-32.9	13.7	0.2	45.62	53.97	-8.35	-	-	101	Vert

* Fundamental Frequencies

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

HARMONICS AND SPURIOUS EMISSIONS
HIGH CHANNEL GRAPH





HIGH CHANNEL 64 DATA

Project :13J14910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:HT20 SDM MCS8, Ch64, 5320MH
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1023.088	47.5	PK	27.5	-36	3.2	0.1	42.3	53.97	-11.67	74	-31.7	101	Horz
2	1075.862	47.62	PK	27.8	-35.9	3.2	0.1	42.82	53.97	-11.15	74	-31.18	101	Horz
3	1201.199	45.01	PK	28.4	-35.7	3.4	0.1	41.21	53.97	-12.76	74	-32.79	101	Horz
4	5017.391	39.72	PK	34.6	-34.9	7.2	0.1	46.72	53.97	-7.25	74	-27.28	200	Horz
*5	5324.138	44.11	PK	34.9	-34.9	7.5	1	52.61	-	-	-	-	101	Horz
6	5492.354	39.2	PK	34.9	-34.9	7.6	1	47.8	-	-	68.2	-20.4	101	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	1075.862	45.85	PK	27.8	-35.9	3.2	0.1	41.05	53.97	-12.92	74	-32.95	100	Vert
8	1174.813	45.48	PK	28.2	-35.7	3.3	0.1	41.38	53.97	-12.59	74	-32.62	200	Vert
9	1323.238	44.73	PK	28.5	-35.5	3.5	0.1	41.33	53.97	-12.64	74	-32.67	200	Vert
10	5020.69	38.49	PK	34.6	-34.9	7.2	0.1	45.49	53.97	-8.48	74	-28.51	200	Vert
*11	5327.436	42.09	PK	34.9	-34.9	7.5	1	50.59	-	-	-	-	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
12	10640.48	35.34	PK	38.3	-34.3	10.8	0.2	50.34	-	-	74	-23.66	100	Horz
13	15952.224	34.25	PK	41.5	-32.9	13.7	0.4	56.95	-	-	74	-17.05	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	10635.282	36.54	PK	38.3	-34.3	10.8	0.2	51.54	-	-	74	-22.46	200	Vert
15	15957.421	36.28	PK	41.5	-32.9	13.7	0.4	58.98	-	-	74	-15.02	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
16	10639.68	25.79	PK	38.3	-34.3	10.8	0.2	40.79	53.97	-13.18	74	-33.21	200	Horz
17	15965.017	24.28	PK	41.6	-32.9	13.7	0.5	47.18	53.97	-6.79	74	-26.82	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
18	10639.68	25.7	PK	38.3	-34.3	10.8	0.2	40.7	53.97	-13.27	74	-33.3	200	Vert
19	15957.021	25.47	PK	41.5	-32.9	13.7	0.4	48.17	53.97	-5.8	74	-25.83	200	Vert

Vertical 10000 - 18000MHz

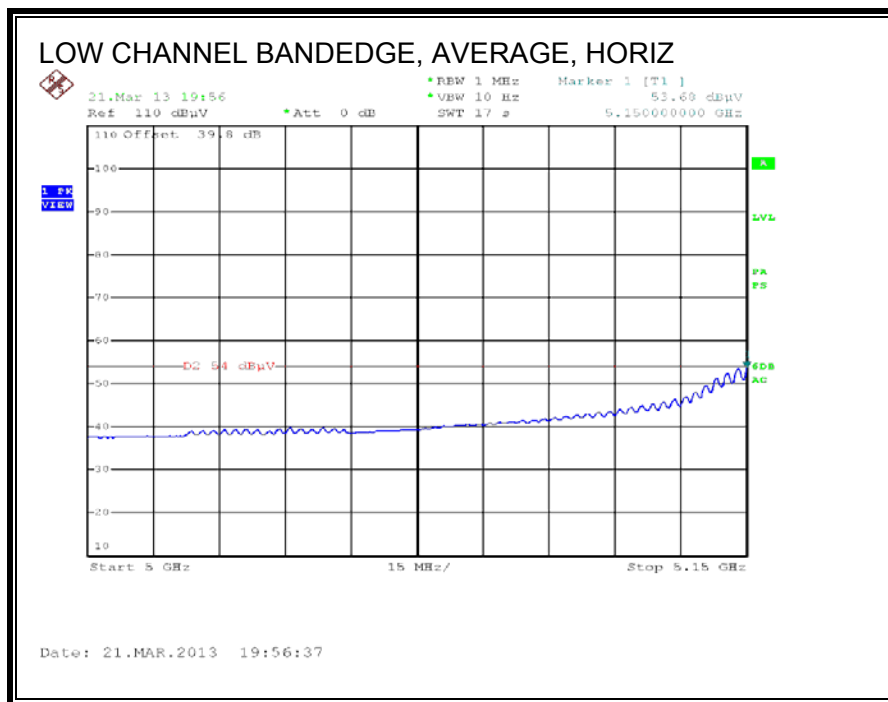
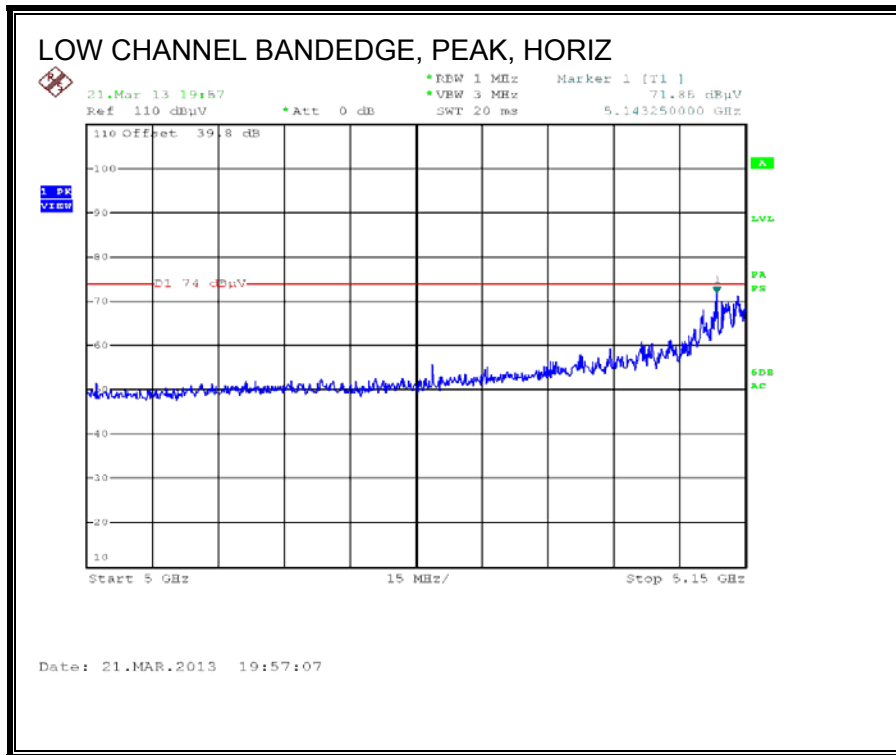
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
19	15957.081	8.83	Av	41.5	-32.9	13.7	0.4	31.53	53.97	-22.44	-	-	212	Vert

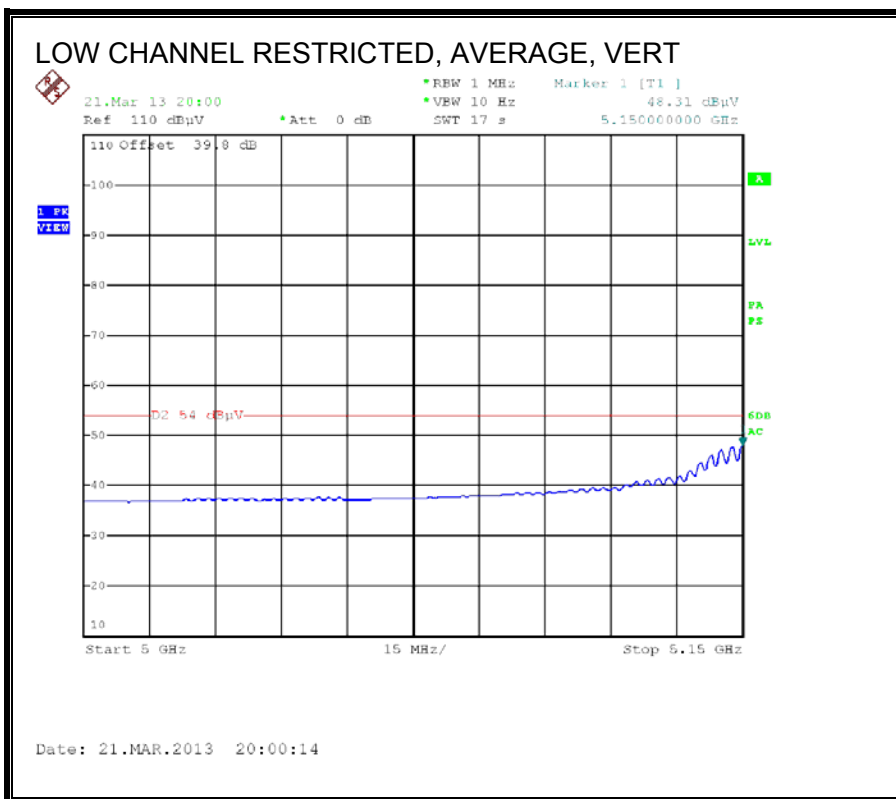
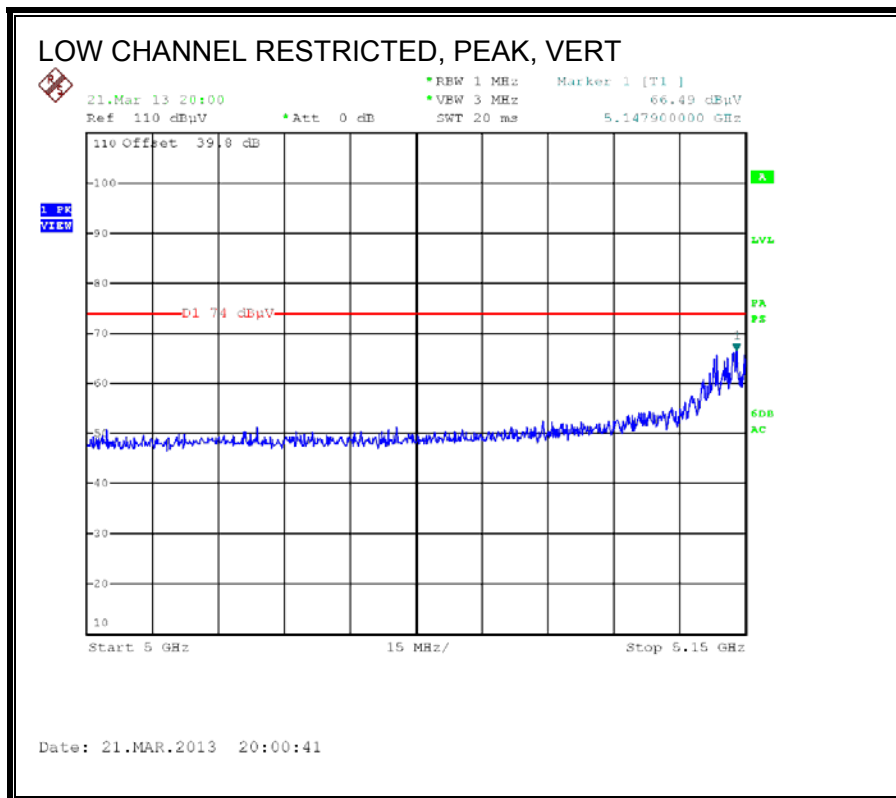
* Fundamental Frequencies

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

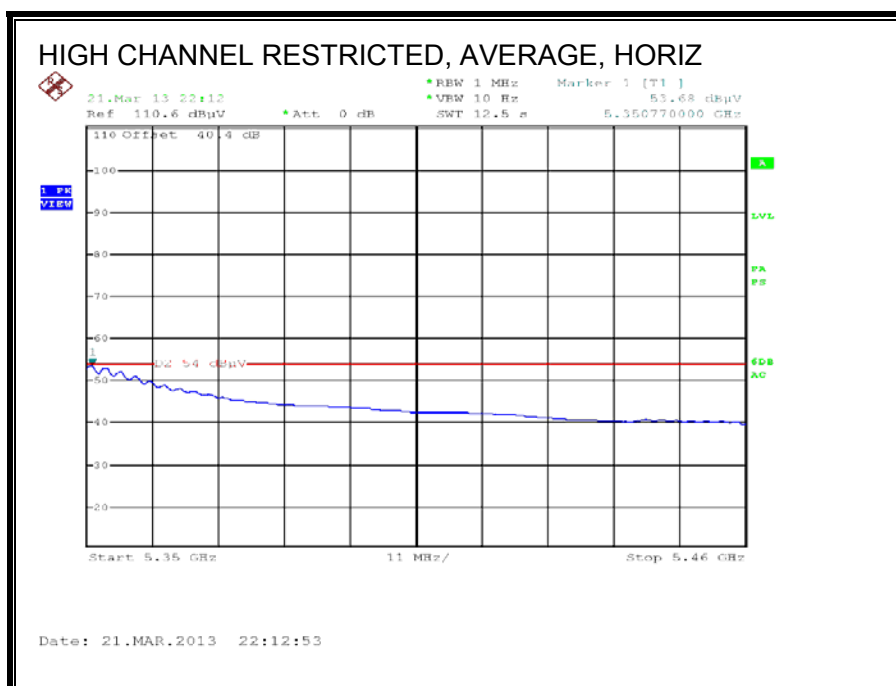
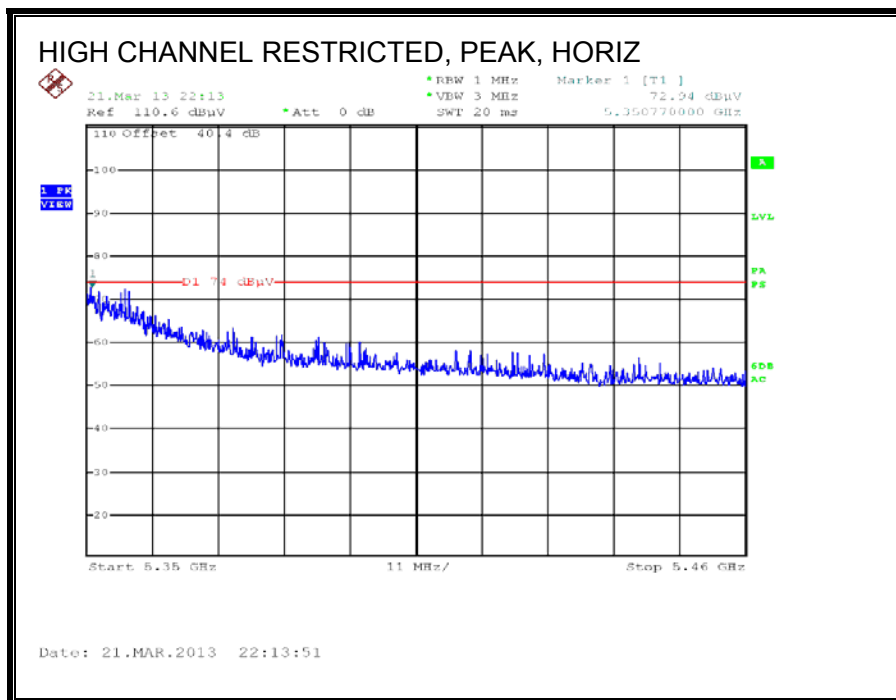
9.10. 802.11n HT40 CDD MCS0 2TX MODE IN THE 5.3 GHz BAND

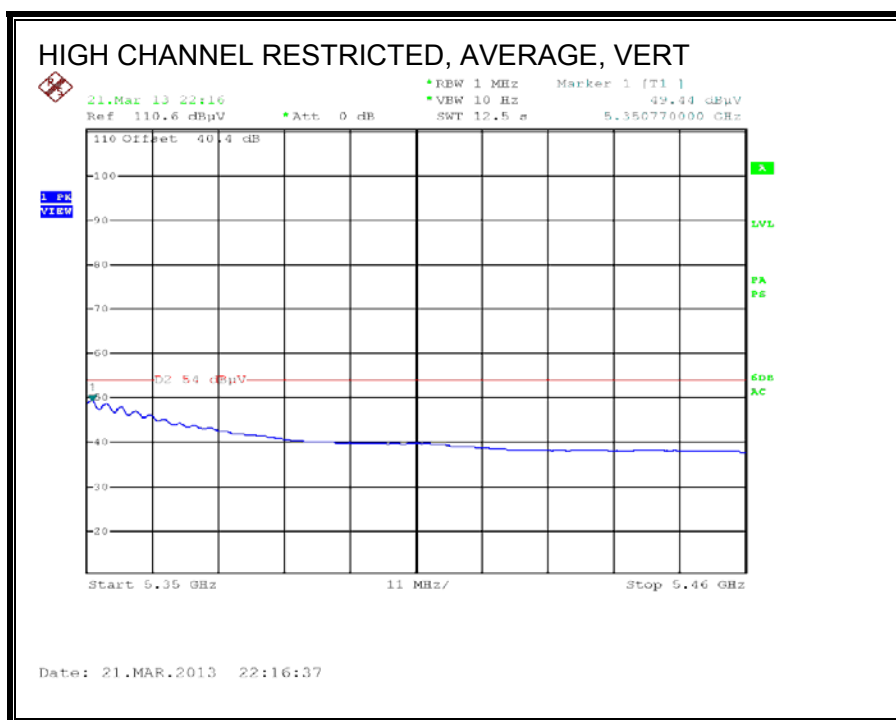
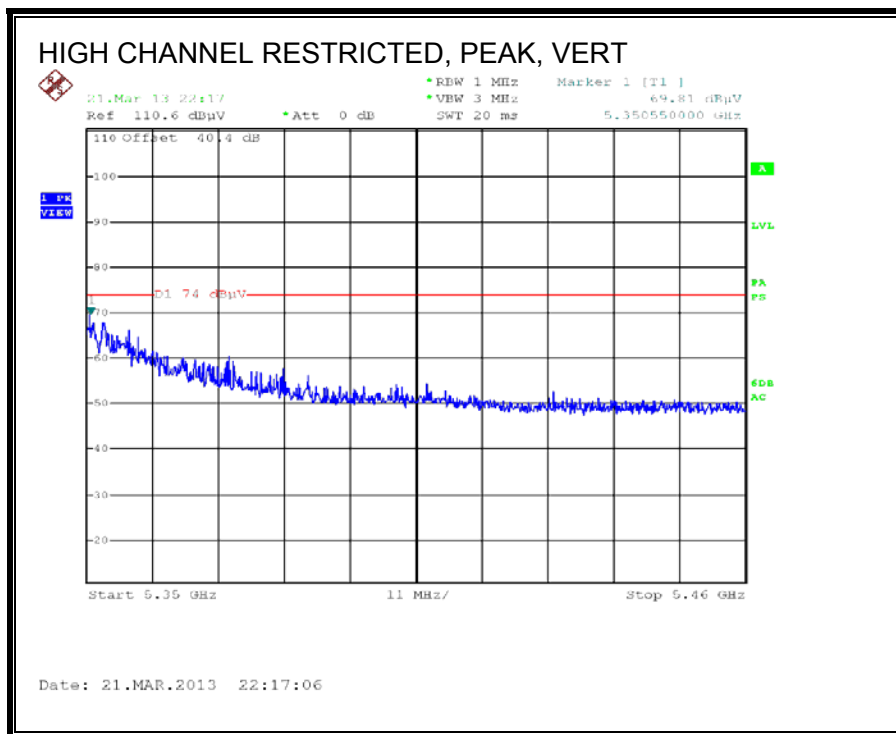
AUTHORIZED BANDEDGE (LOW CHANNEL)



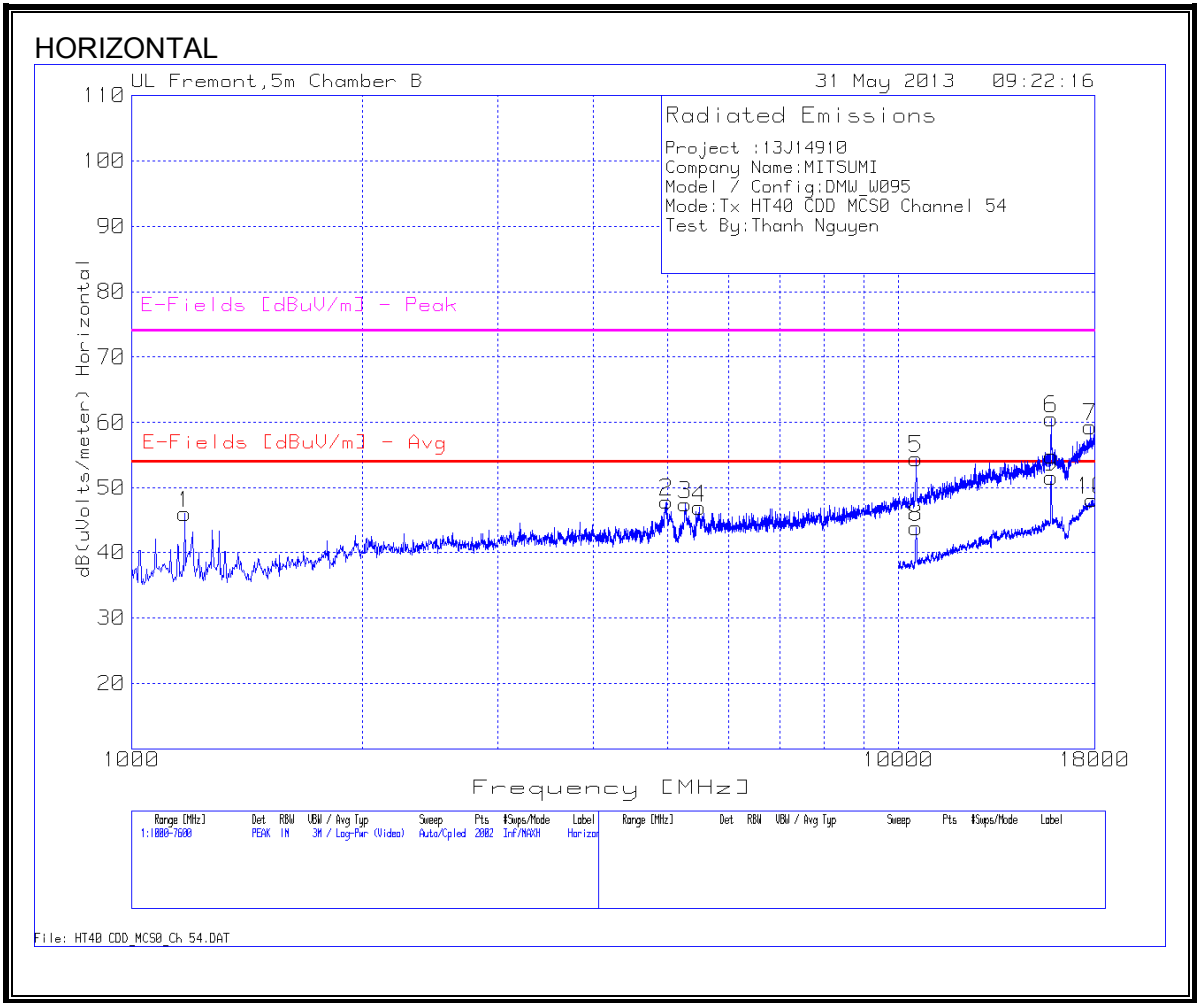


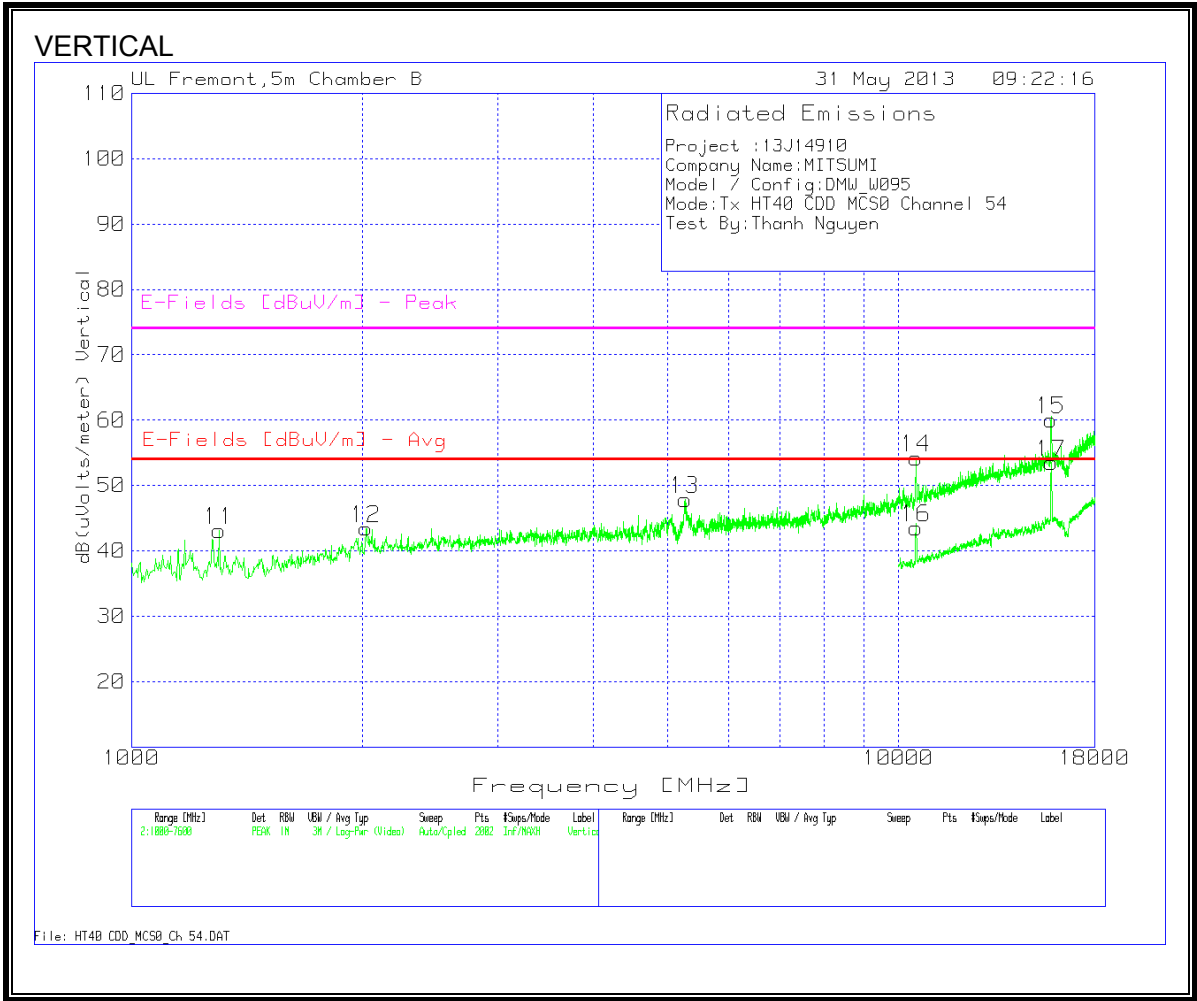
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS
LOW CHANNEL GRAPH

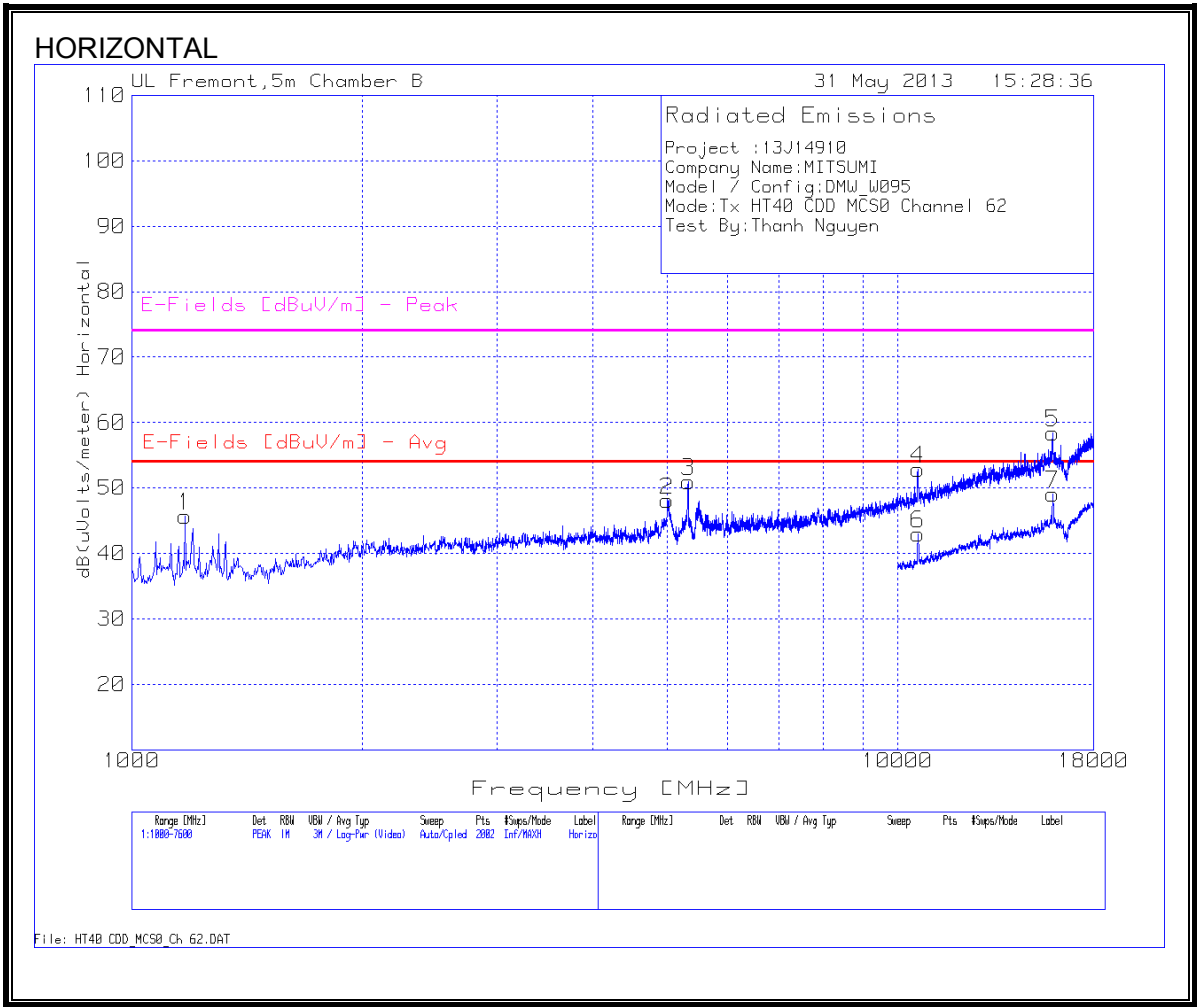


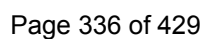


LOW CHANNEL 54 DATA

Project :13J14910 Company Name:MITSUMI Model / Config:DMW_W095 Mode:Tx HT40 CDD MCS0 Channel 54 Test By:Thanh Nguyen														
Horizontal 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1174.813	50.14	PK	28.2	-35.7	3.3	0	45.94	53.97	-8.03	74	-28.06	100	Horz
2	4984.408	40.54	PK	34.6	-34.9	7.2	0.4	47.84	53.97	-6.13	74	-26.16	100	Horz
*3	5274.663	39.12	PK	34.9	-34.9	7.4	0.9	47.42	-	-	-	-	100	Horz
4	5502.249	38.46	PK	34.9	-34.9	7.6	0.8	46.86	-	-	68.2	-21.34	100	Horz
Vertical 1000 - 7600MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	1300.15	46.57	PK	28.5	-35.5	3.5	0	43.07	53.97	-10.9	74	-30.93	100	Vert
12	2022.489	42.46	PK	31.8	-35	4.2	0	43.46	-	-	68.2	-24.74	100	Vert
*13	5264.768	39.55	PK	34.9	-34.9	7.4	0.9	47.85	-	-	-	-	200	Vert
Horizontal 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
5	10546.927	39.6	PK	38.2	-34.3	10.8	0.2	54.5	-	-	68.2	-13.7	200	Horz
6	15817.091	38.24	PK	41.4	-32.9	13.6	0.3	60.64	-	-	74	-13.36	100	Horz
7	17792.104	33.87	PK	42.2	-31.4	14.7	0	59.37	-	-	74	-14.63	100	Horz
Vertical 7600 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	10536.532	39.48	PK	38.2	-34.4	10.7	0.2	54.18	-	-	68.2	-14.02	200	Vert
15	15796.302	37.6	PK	41.4	-32.9	13.6	0.3	60	-	-	74	-14	200	Vert
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
8	10546.927	28.91	PK	38.2	-34.3	10.8	0.2	43.81	-	-	68.2	-24.39	200	Horz
9	15817.091	29.27	PK	41.4	-32.9	13.6	0.3	51.67	53.97	-2.3	74	-22.33	100	Horz
10	17792.104	22.06	PK	42.2	-31.3	14.8	0.4	48.16	53.97	-5.81	74	-25.84	200	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
16	10536.532	28.85	PK	38.2	-34.4	10.7	0.2	43.55	53.97	-10.42	74	-30.45	200	Vert
17	15796.302	31.08	PK	41.4	-32.9	13.6	0.3	53.48	53.97	-0.49	74	-20.52	200	Vert
Horizontal 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
9	15812.834	26.11	Av	41.4	-32.9	13.6	0.3	48.51	53.97	-5.46	-	-	129	Horz
Vertical 10000 - 18000MHz														
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
17	15796.79	30.38	Av	38.2	-34.4	10.7	0.2	37.97	53.97	-16	-	-	200	Vert
* Fundamental														
PK - Peak detector														
QP - Quasi-Peak detector														
Av - Average detector														

HARMONICS AND SPURIOUS EMISSIONS
HIGH CHANNEL GRAPH





HIGH CHANNEL 62 DATA

Project :13J14910
Company Name:MITSUMI
Model / Config:DMW_W095
Mode:Tx HT40 CDD MCS0 Ch 62, 5310MH
Test By:Thanh Nguyen

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1174.813	49.86	PK	28.2	-35.7	3.3	0	45.66	53.97	-8.31	74	-28.34	100	Horz
2	5000.9	40.47	PK	34.6	-34.9	7.2	0.7	48.07	53.97	-5.9	74	-25.93	200	Horz
3	5324.138	42.63	PK	34.9	-34.9	7.5	0.9	51.03	-	-	68.2	-17.17	200	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
8	1273.763	46.51	PK	28.6	-35.6	3.4	0	42.91	-	-	68.2	-25.29	100	Vert
9	1662.969	44.91	PK	29.4	-35.1	3.9	0	43.11	53.97	-10.86	74	-30.89	100	Vert
10	5327.436	40.21	PK	34.9	-34.9	7.5	0.9	48.61	-	-	68.2	-19.59	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
4	10614.493	37.82	PK	38.2	-34.3	10.8	0.4	52.92	-	-	74	-21.08	200	Horz
5	15921.039	35.84	PK	41.5	-32.9	13.7	0.3	58.44	-	-	74	-15.56	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	10609.295	38.01	PK	38.2	-34.3	10.8	0.4	53.11	-	-	74	-20.89	200	Vert
12	15905.447	34.36	PK	41.5	-32.9	13.7	0.2	56.86	-	-	74	-17.14	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	10619.69	27.97	PK	38.2	-34.3	10.8	0.3	42.97	53.97	-11	74	-31.03	200	Horz
7	15933.033	26.49	PK	41.5	-32.9	13.7	0.3	49.09	53.97	-4.88	74	-24.91	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
13	10619.69	29.09	PK	38.2	-34.3	10.8	0.3	44.09	53.97	-9.88	74	-29.91	200	Vert
14	15937.031	28.59	PK	41.5	-32.9	13.7	0.3	51.19	53.97	-2.78	74	-22.81	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	15939.846	26.67	Av	41.5	-32.9	13.7	0.4	49.37	53.97	-4.6	-	-	168	Horz

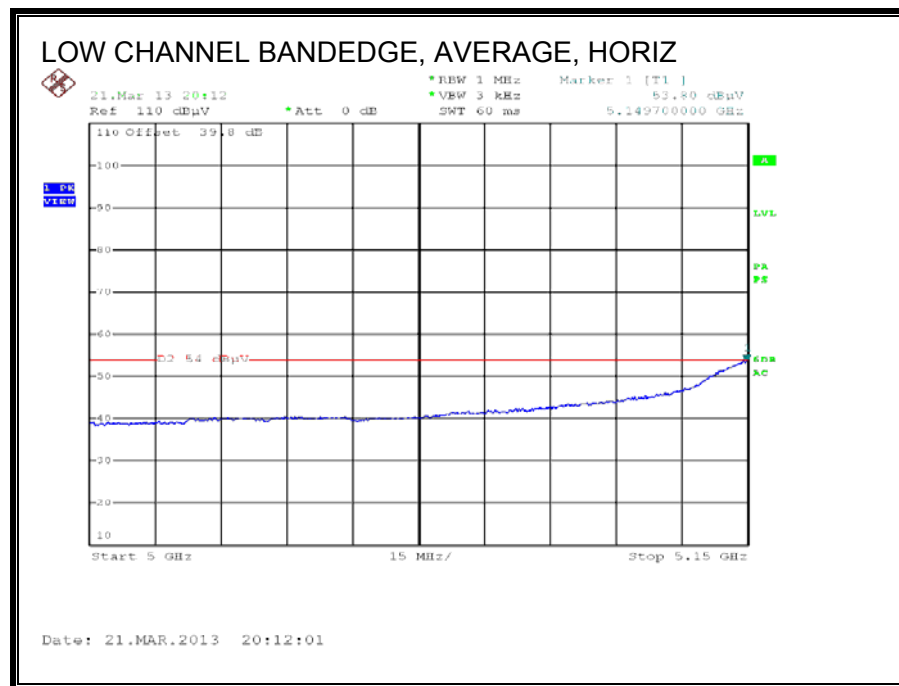
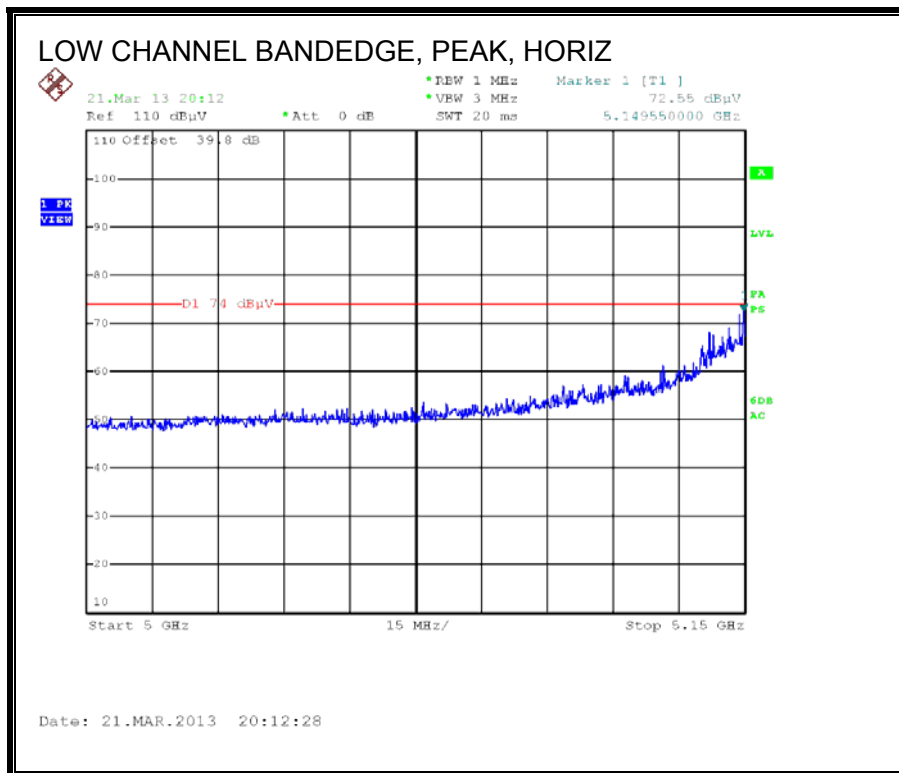
Vertical 10000 - 18000MHz

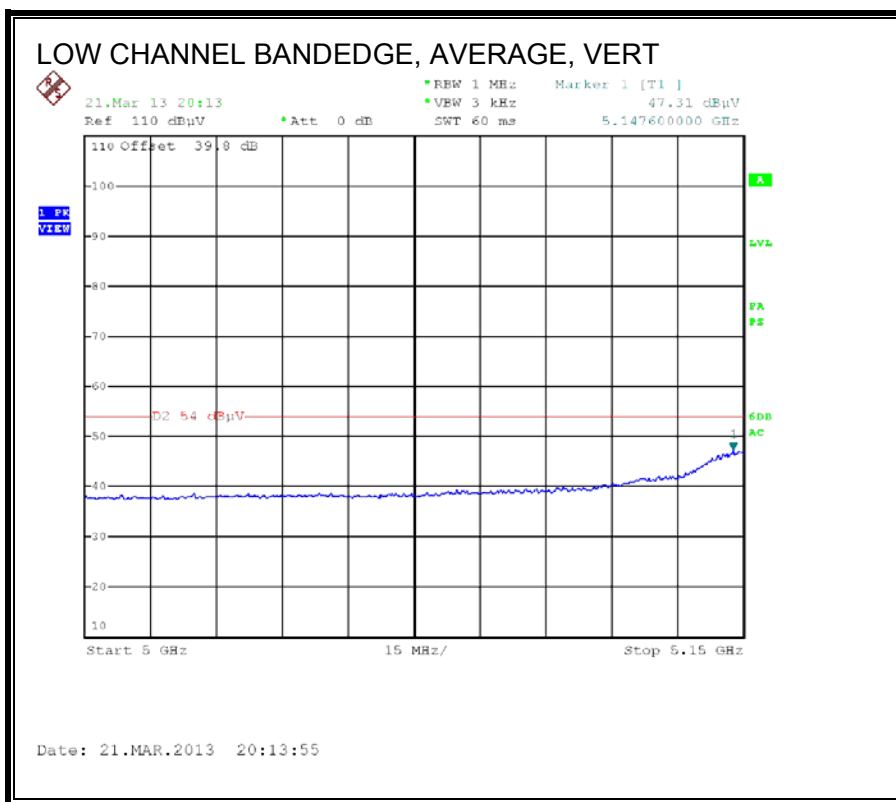
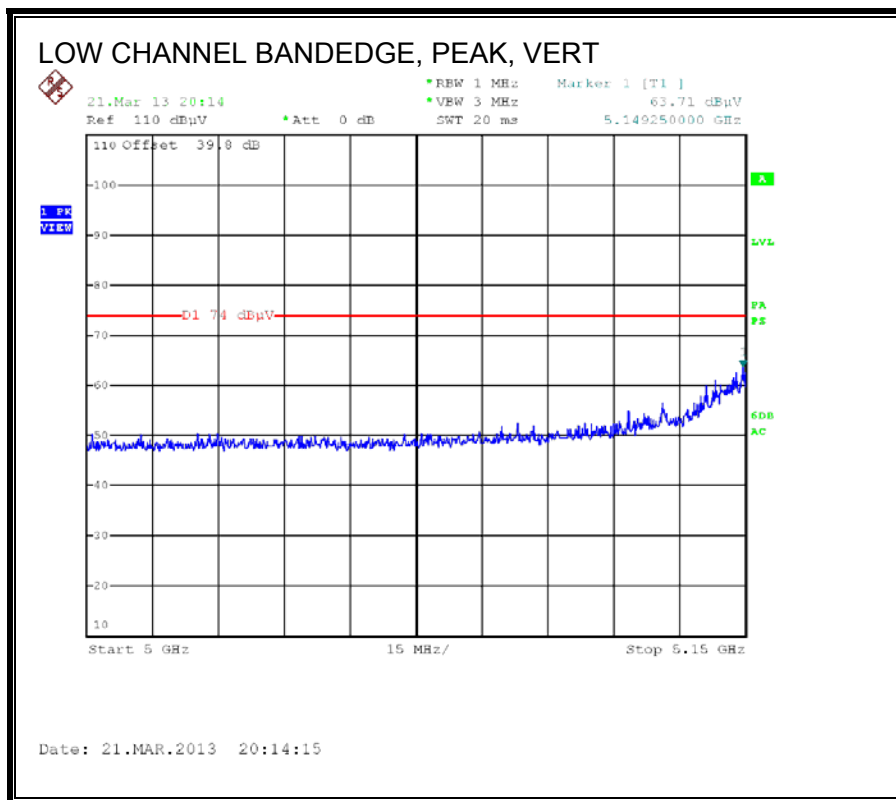
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	10634.909	34.45	Av	38.3	-34.3	10.8	0.2	49.45	53.97	-4.52	-	-	126	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

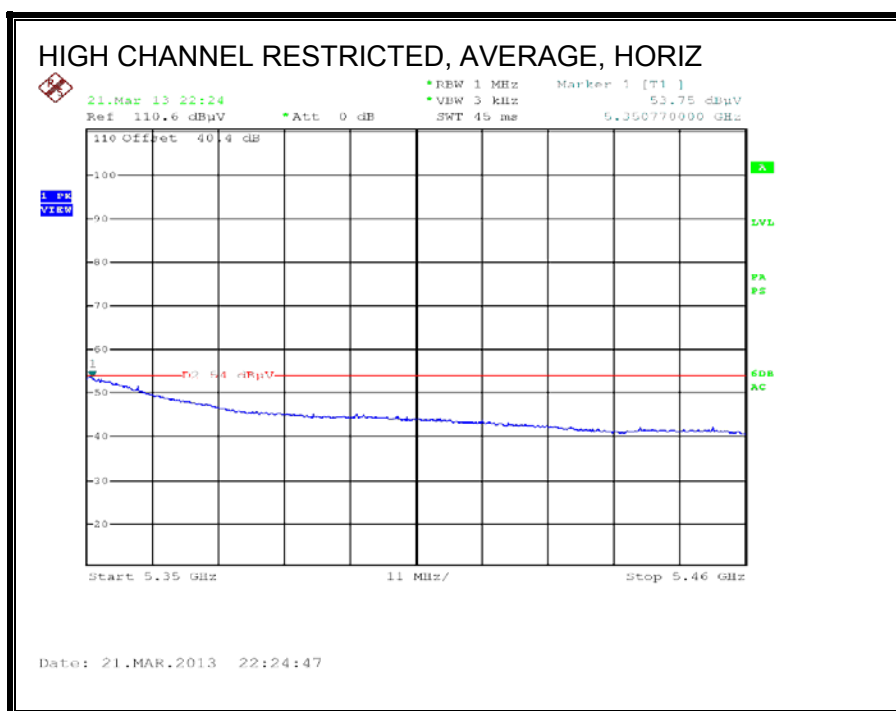
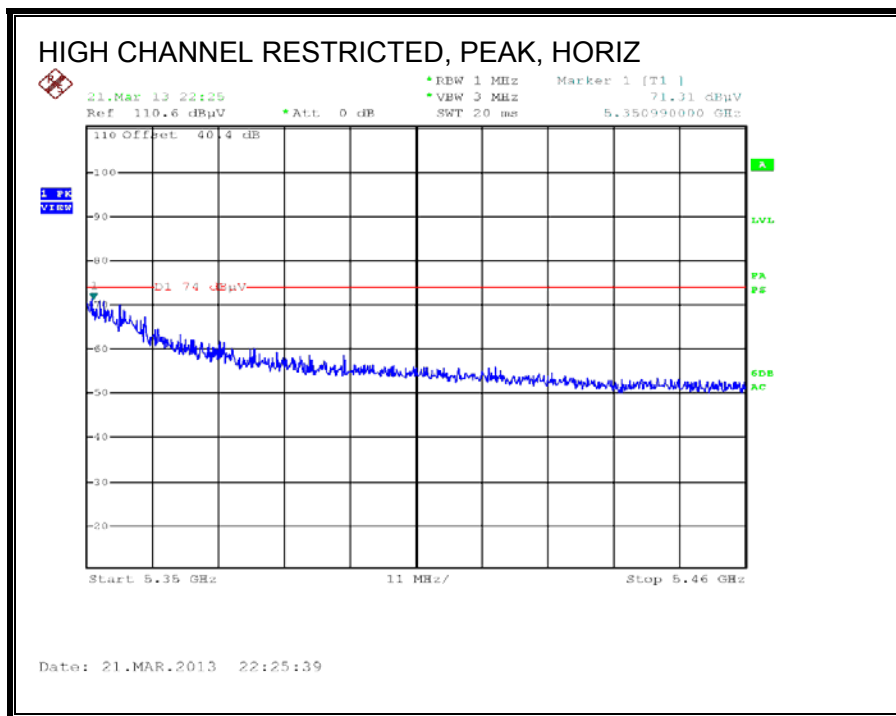
9.11. 802.11n HT40 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

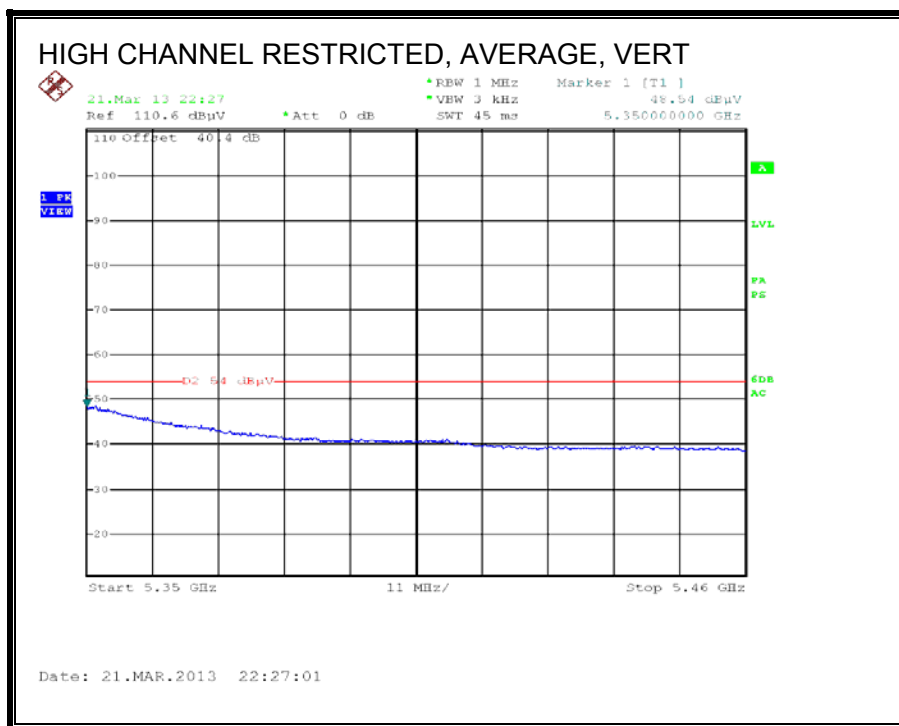
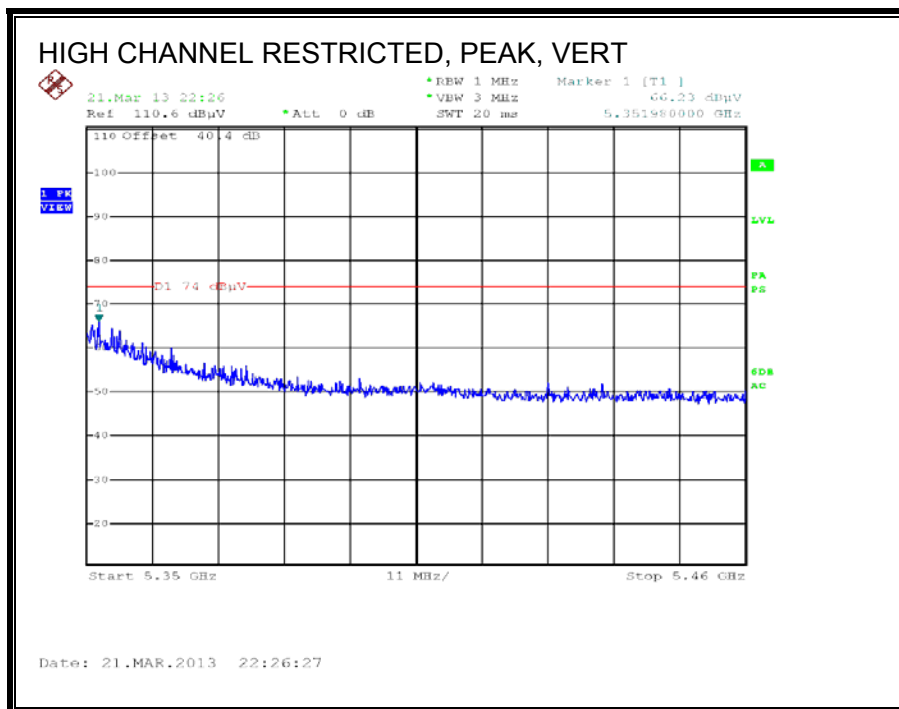
AUTHORIZED BANDEDGE (LOW CHANNEL)



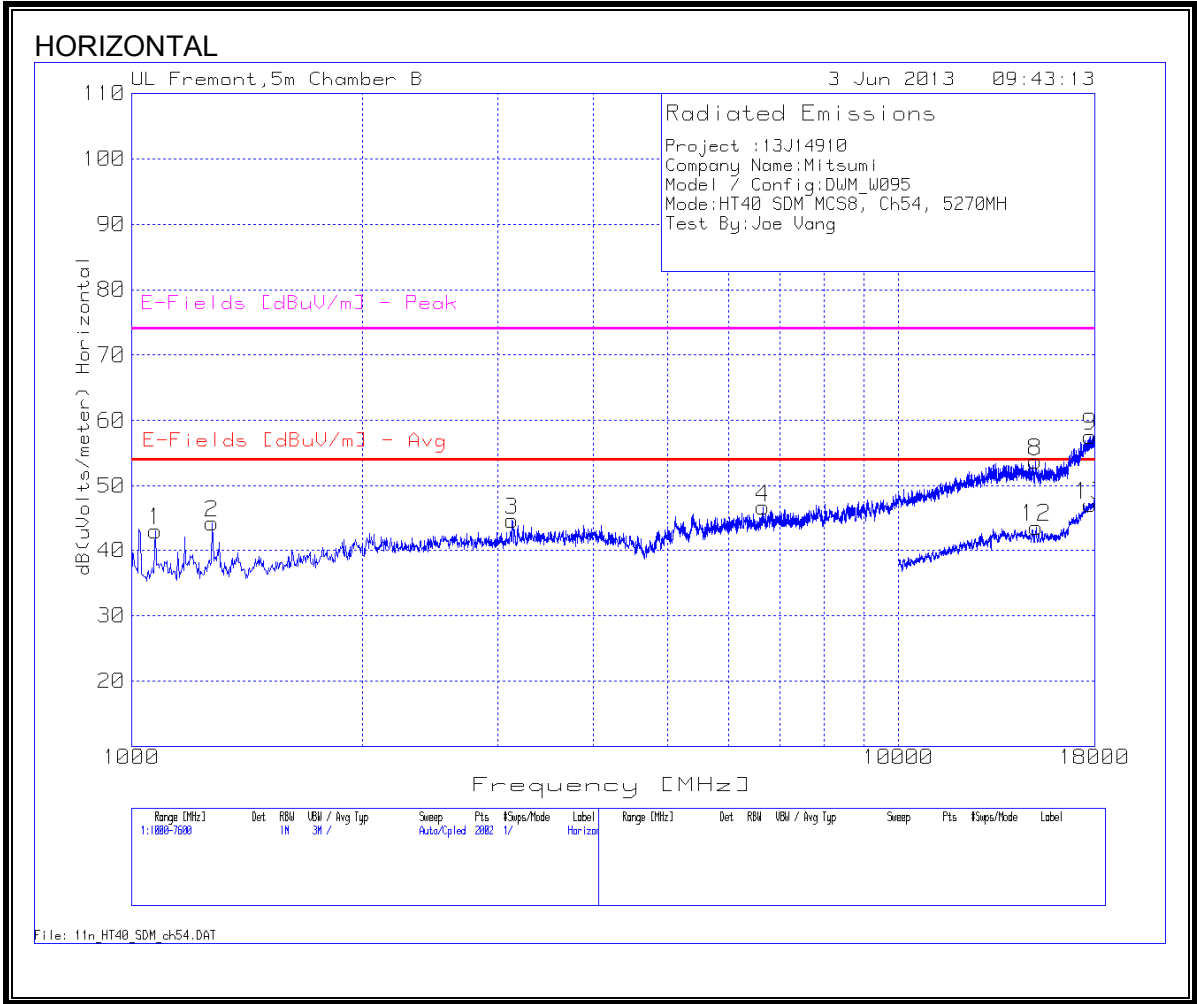


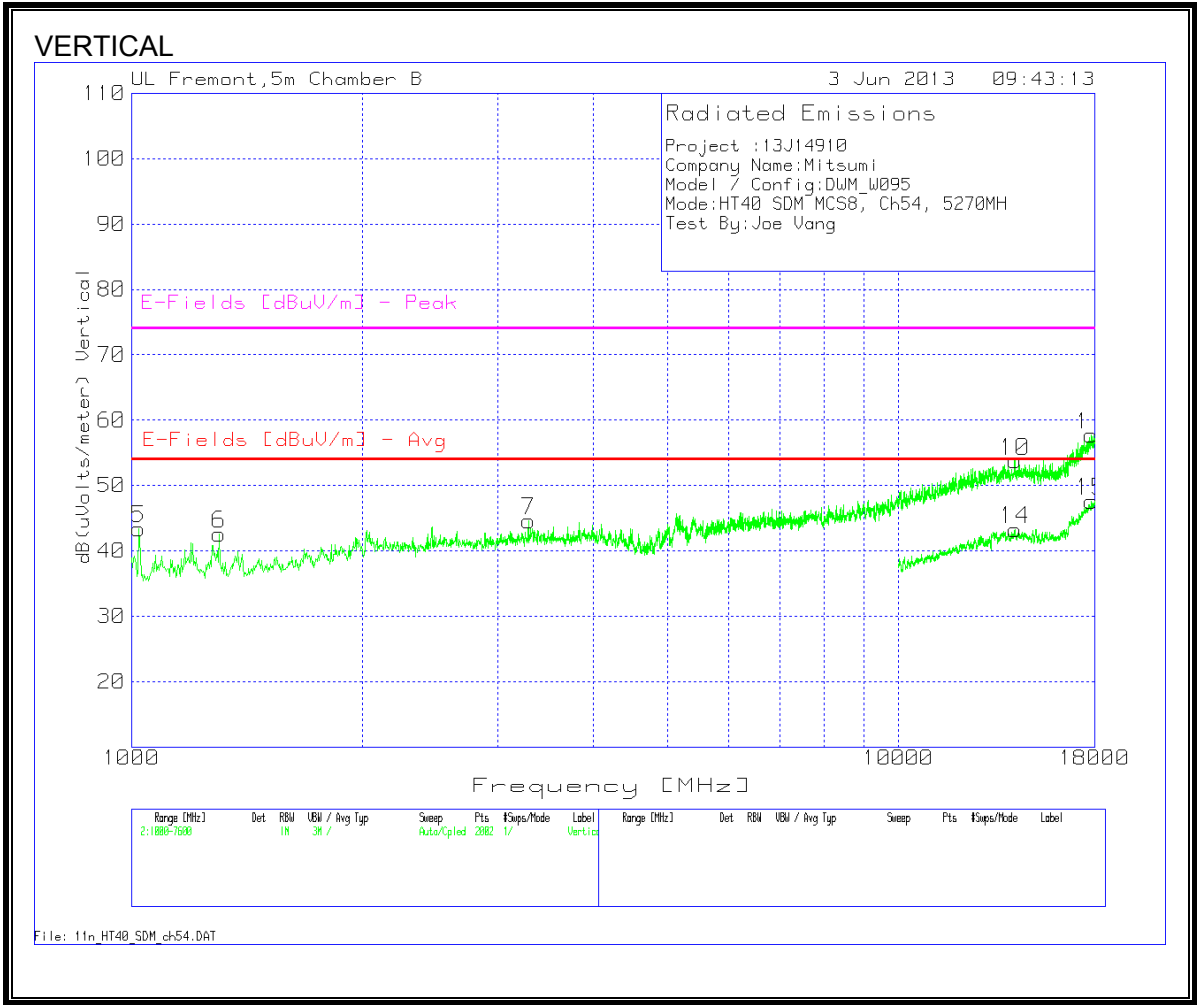
RESTRICTED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS
LOW CHANNEL GRAPH





LOW CHANNEL 54 DATA

Project :13J14910
Company Name:Mitsumi
Model / Config:DWM_W095
Mode:HT40 SDM MCS8, Ch54, 5270MH
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1075.862	47.93	PK	27.8	-35.9	3.2	0	43.03	53.97	-10.94	74	-30.97	100	Horz
2	1273.763	47.83	PK	28.6	-35.6	3.4	0	44.23	53.97	-9.74	74	-29.77	100	Horz
3	3137.331	41.16	PK	33.2	-35.2	5.4	0	44.56	-	-	68.2	-23.64	100	Horz
4	6650.075	37.38	PK	35.8	-35	8.4	0.1	46.68	-	-	68.2	-21.52	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	1023.088	48.68	PK	27.5	-36	3.2	0	43.38	53.97	-10.59	74	-30.62	200	Vert
6	1300.15	46.1	PK	28.5	-35.5	3.5	0	42.6	53.97	-11.37	74	-31.4	100	Vert
7	3292.354	40.77	PK	33.3	-35.1	5.5	0.1	44.57	-	-	68.2	-23.63	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	15089.455	32.75	PK	40.1	-32.9	13.2	0.6	53.75	-	-	68.2	-14.45	200	Horz
9	17766.117	31.83	PK	42.2	-31.4	14.7	0.3	57.63	-	-	74	-16.37	200	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	14195.502	33.35	PK	39.5	-32.3	12.8	0.4	53.75	-	-	68.2	-14.45	100	Vert
11	17818.091	32.18	PK	42.2	-31.4	14.7	0	57.68	-	-	74	-16.32	200	Vert

Horizontal 10000 - 18000MHz

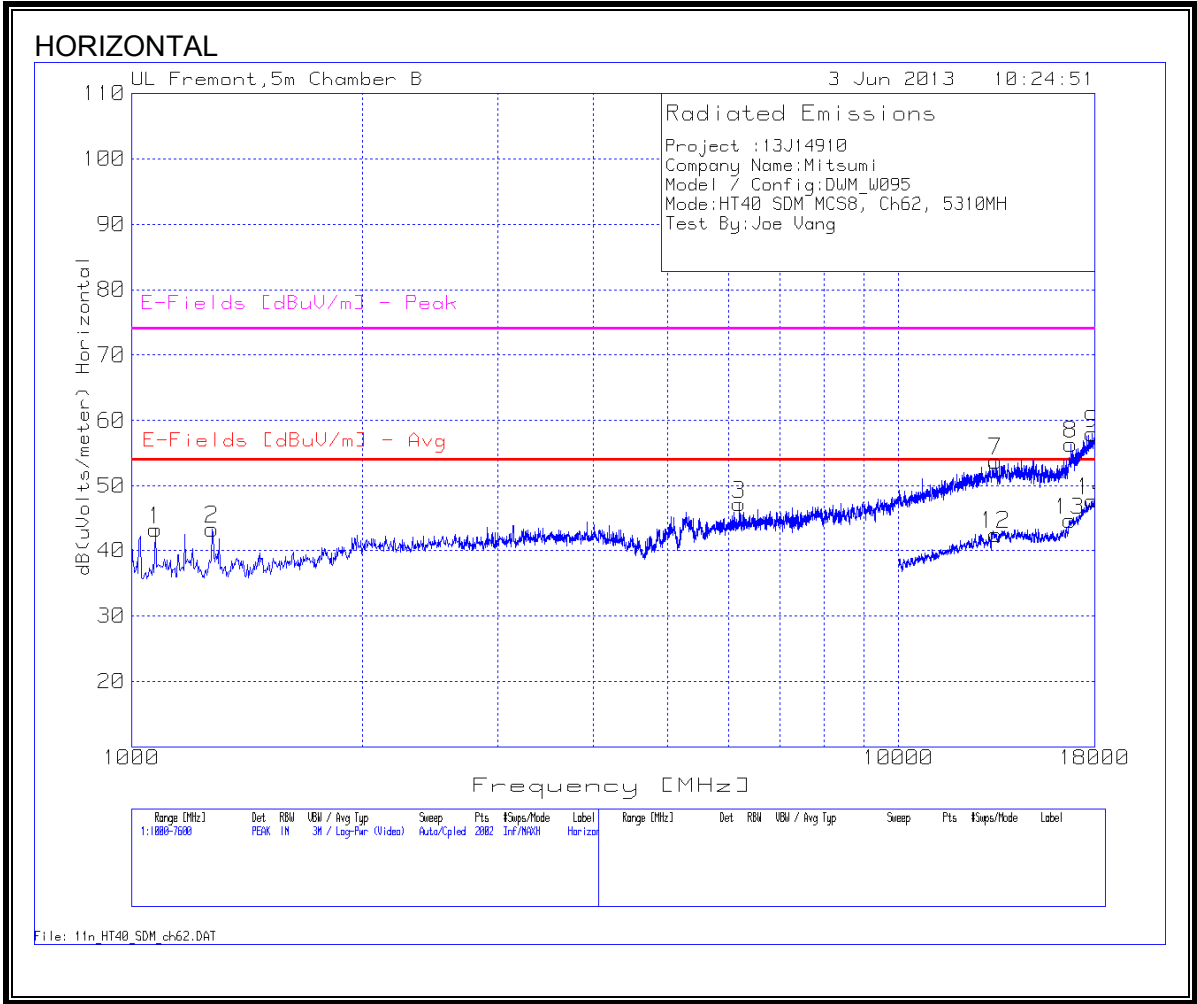
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
12	15105.447	22.78	PK	40.1	-32.9	13.2	0.4	43.58	-	-	68.2	-24.62	100	Horz
13	17776.112	21.32	PK	42.2	-31.4	14.7	0.2	47.02	53.97	-6.95	74	-26.98	100	Horz

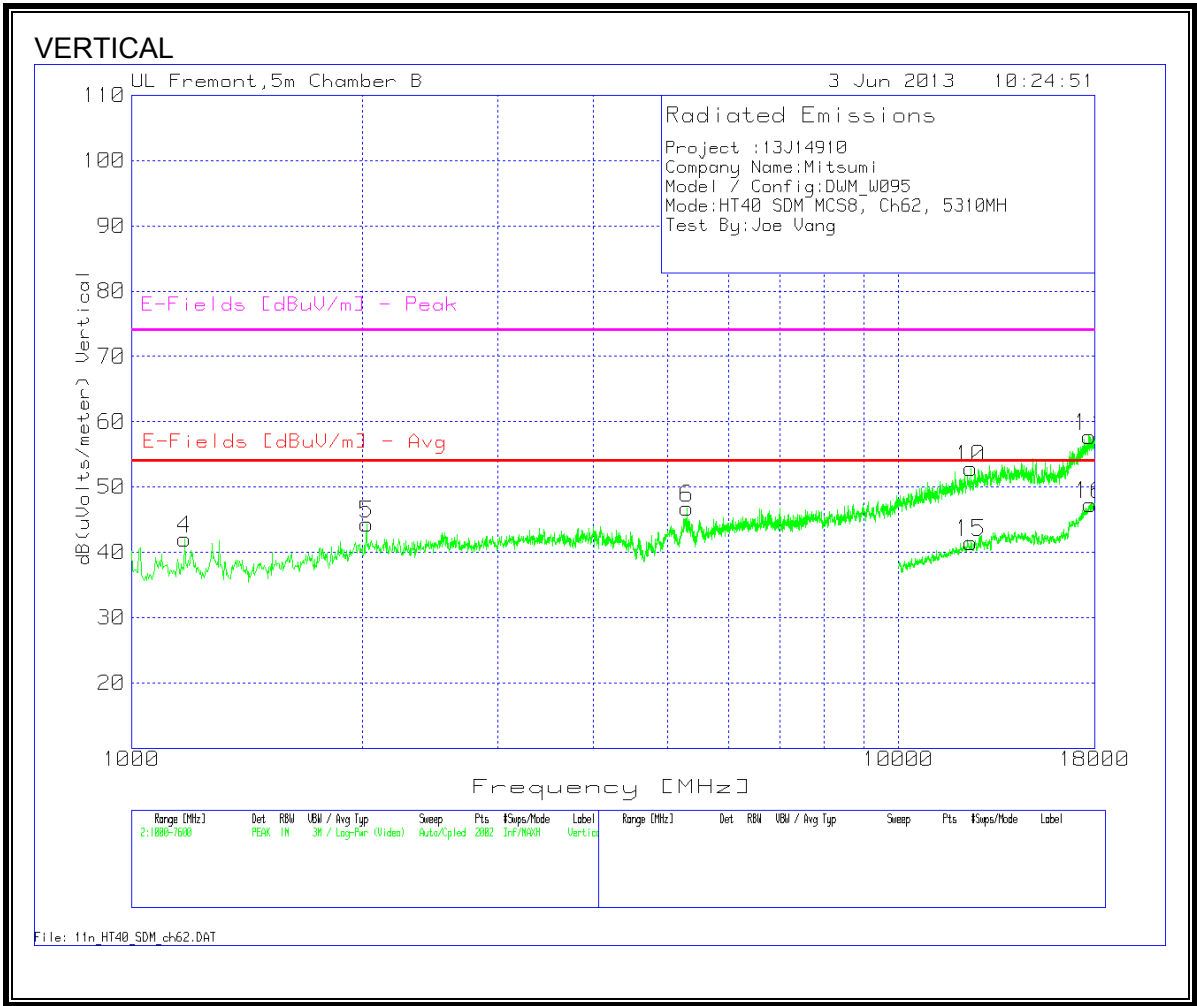
Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
14	14169.915	23.09	PK	39.4	-32.3	12.7	0.4	43.29	-	-	68.2	-24.91	200	Vert
15	17844.078	21.58	PK	42.2	-31.3	14.7	0.4	47.58	53.97	-6.39	74	-26.42	100	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

HARMONICS AND SPURIOUS EMISSIONS
HIGH CHANNEL GRAPH





HIGH CHANNEL 62 DATA

Project :13J14910
Company Name:Mitsumi
Model / Config:DWM_W095
Mode:HT40 SDM MCS8, Ch62, 5310MH
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1075.862	48.09	PK	27.8	-35.9	3.2	0	43.19	53.97	-10.78	74	-30.81	100	Horz
2	1273.763	46.82	PK	28.6	-35.6	3.4	0	43.22	53.97	-10.75	74	-30.78	100	Horz
3	6204.798	38.01	PK	36	-34.9	8.1	0	47.21	53.97	-6.76	74	-26.79	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
4	1174.813	46.28	PK	28.2	-35.7	3.3	0	42.08	53.97	-11.89	74	-31.92	100	Vert
5	2025.787	43.35	PK	31.8	-35	4.2	0	44.35	-	-	68.2	-23.85	200	Vert
6	5294.453	38.47	PK	34.9	-34.9	7.4	0.9	46.77	-	-	68.2	-21.43	100	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	13384.708	34.06	PK	39.1	-31.9	12.3	0.2	53.76	-	-	74	-20.24	100	Horz
8	16752.624	32.34	PK	41.6	-32.1	14.1	0.4	56.34	-	-	68.2	-11.86	100	Horz
9	17859.67	31.97	PK	42.2	-31.3	14.8	0.4	58.07	-	-	74	-15.93	200	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	12412.794	34.26	PK	39.2	-32.7	11.8	0.3	52.86	-	-	74	-21.14	100	Vert
11	17750.525	32	PK	42.2	-31.4	14.7	0.3	57.8	-	-	74	-16.2	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
12	13398.301	22.64	PK	39.1	-31.9	12.3	0.3	42.44	53.97	-11.53	74	-31.56	100	Horz
13	16744.628	20.46	PK	41.6	-32.1	14.1	0.5	44.56	-	-	68.2	-23.64	200	Horz
14	17856.072	21.59	PK	42.2	-31.3	14.8	0.4	47.69	53.97	-6.28	74	-26.31	200	Horz

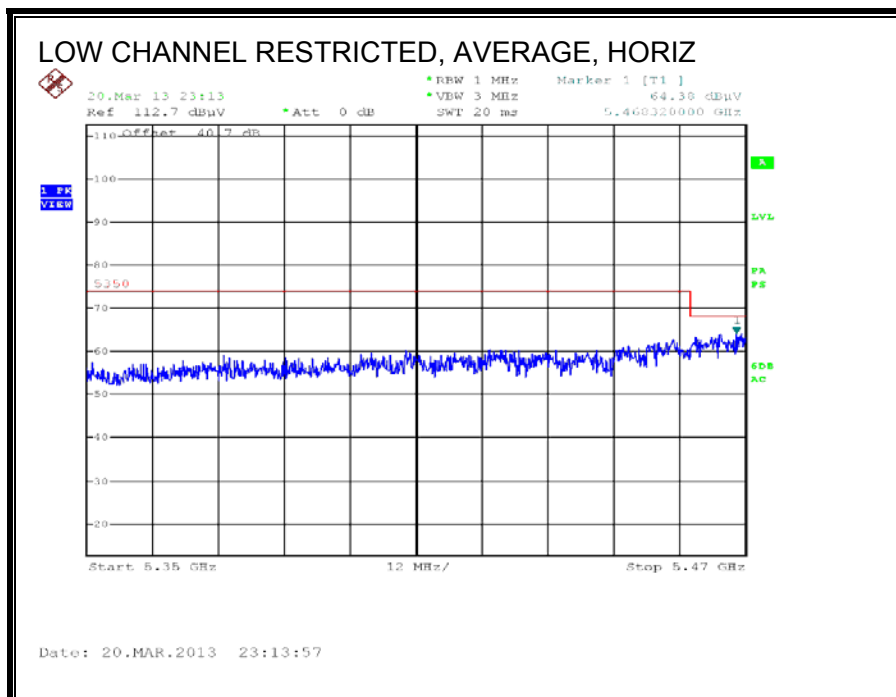
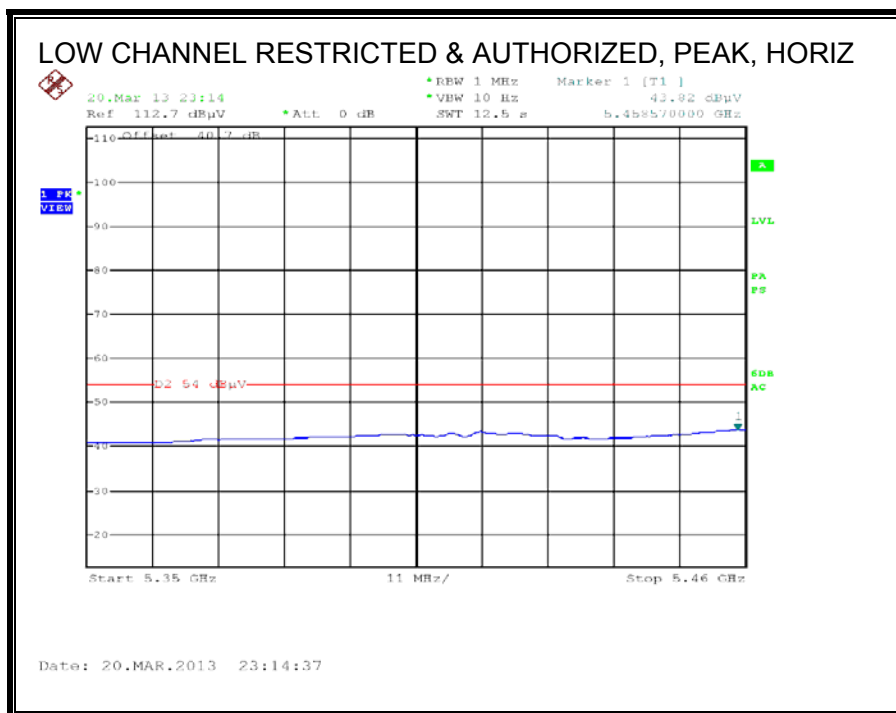
Vertical 10000 - 18000MHz

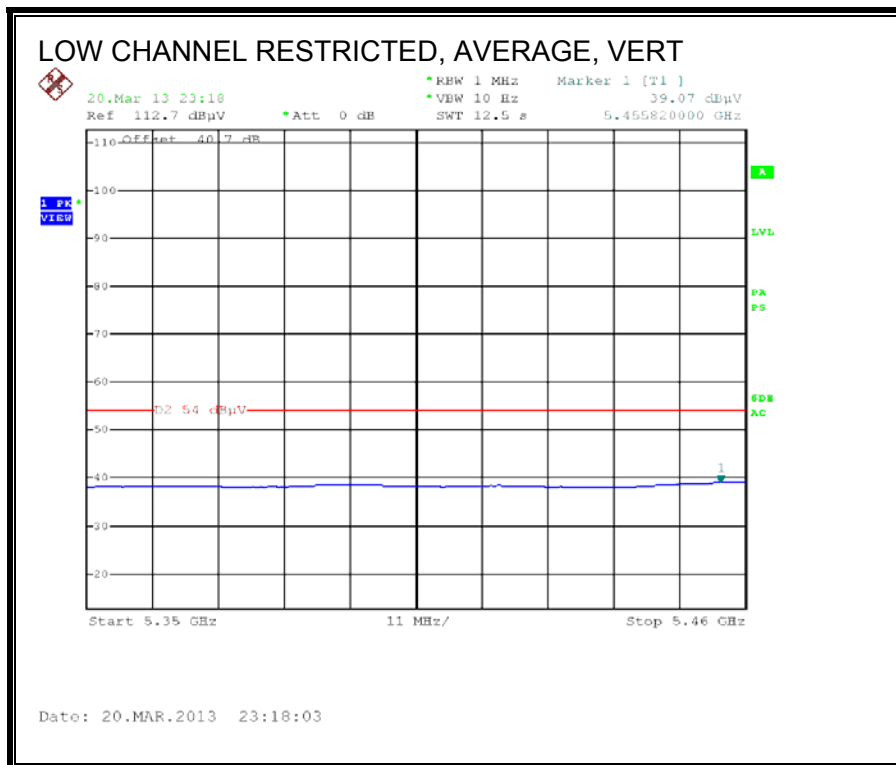
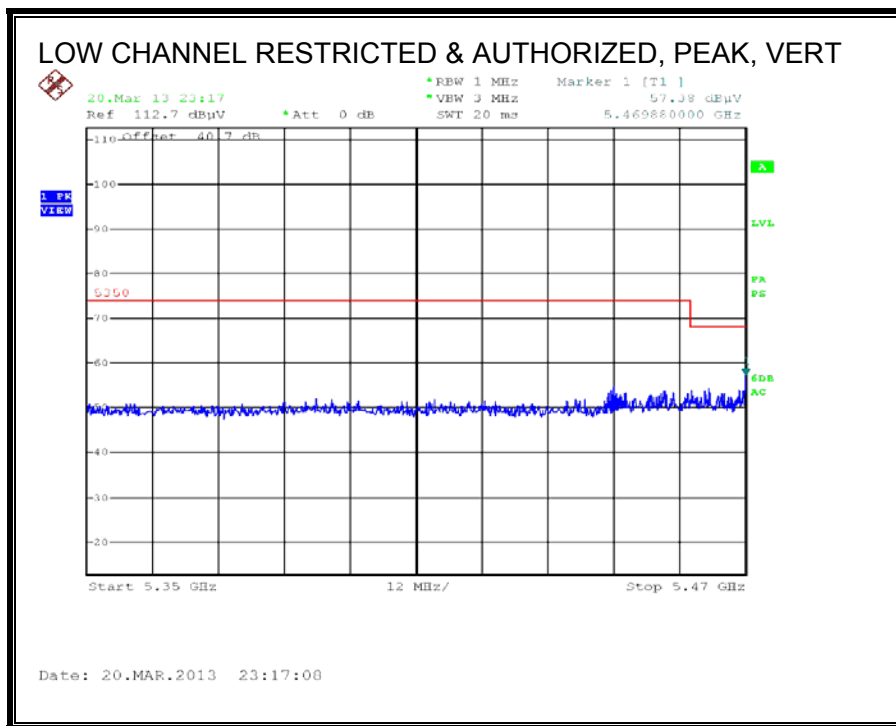
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
15	12414.793	22.91	PK	39.2	-32.7	11.8	0.3	41.51	53.97	-12.46	74	-32.49	100	Vert
16	17756.122	21.5	PK	42.2	-31.4	14.7	0.3	47.3	53.97	-6.67	74	-26.7	200	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

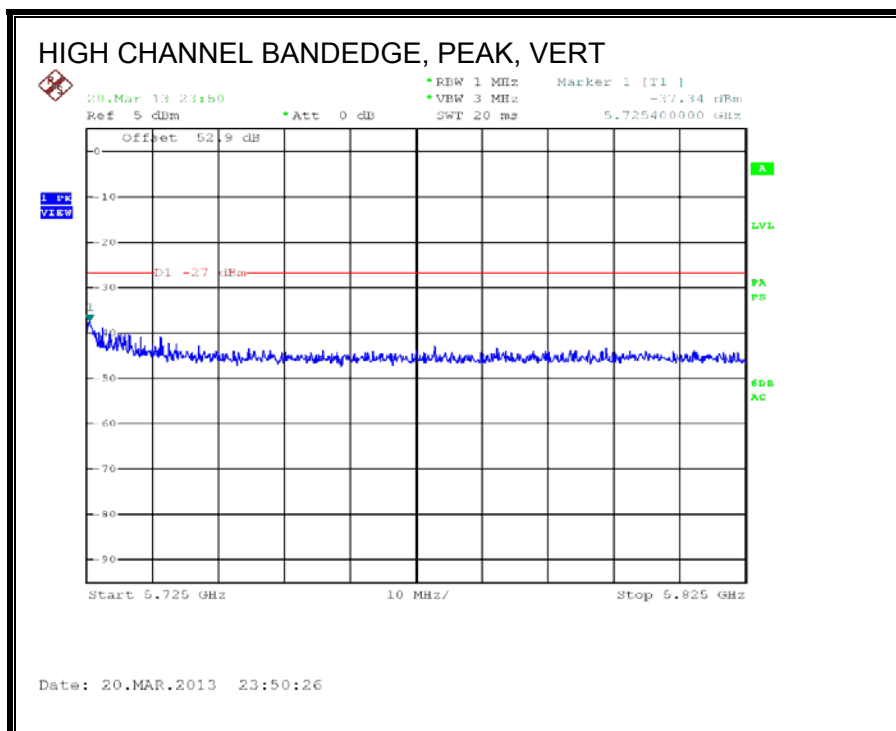
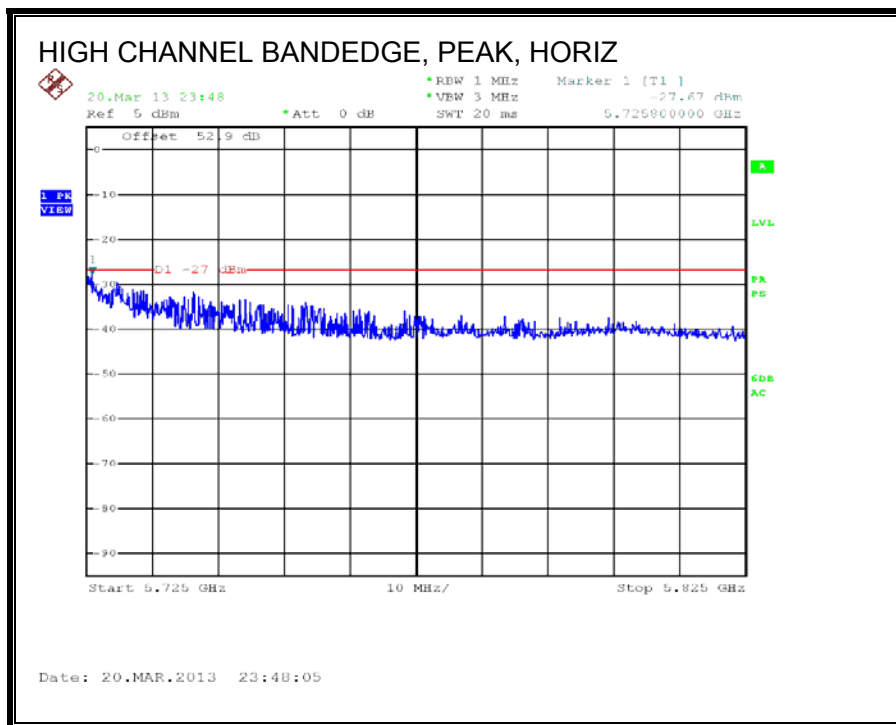
9.12. 802.11a CDD 6Mbps 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)



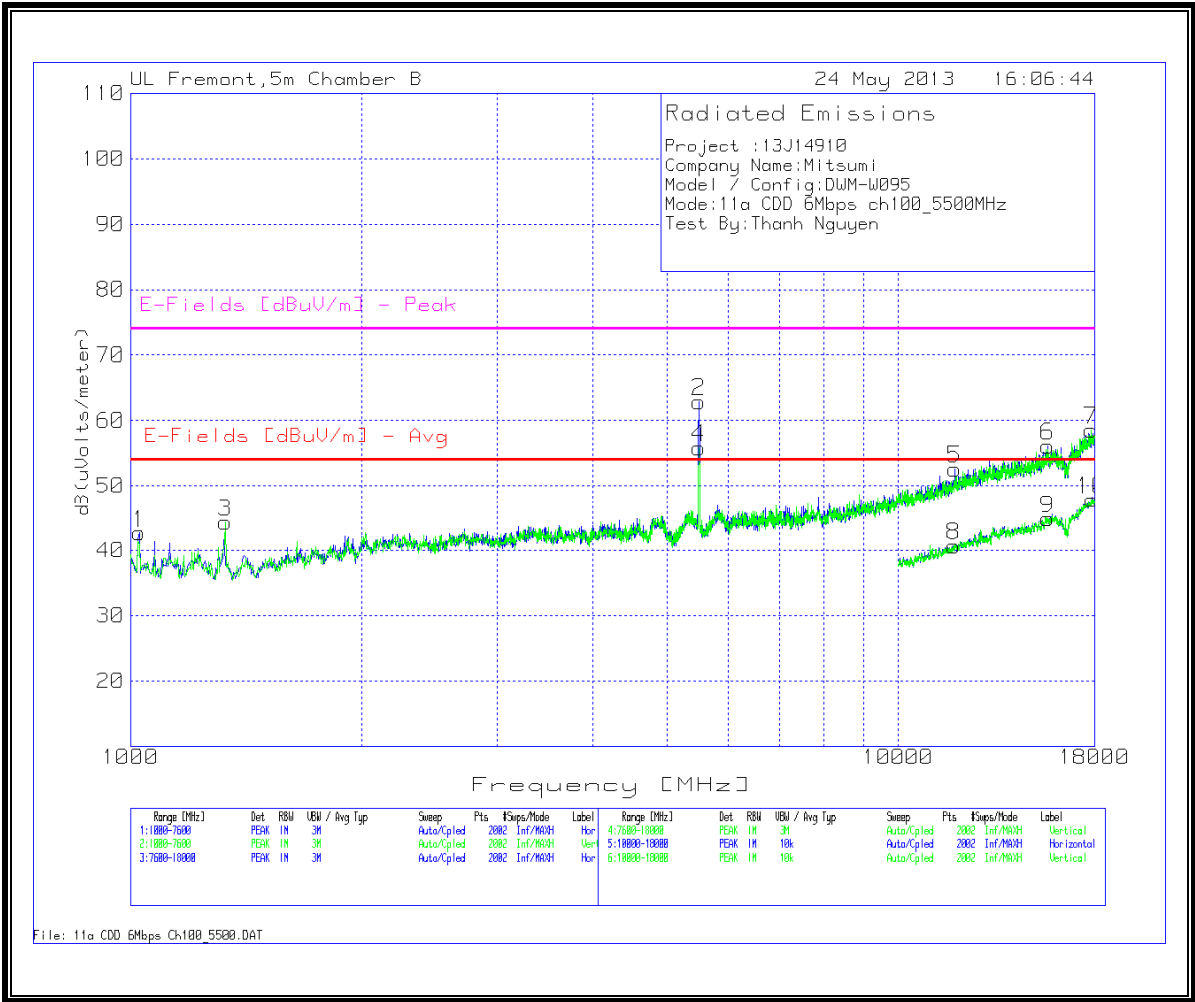


AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS

Low Channel



LOW CHANNEL 100 DATA

Project :13J14910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:11a CDD 6Mbps ch100_5500MHz
Test By:Thanh Nguyen

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
1	1026.387	47.85	PK	27.5	-36	3.2	0.1	42.65	53.97	-11.32	74	-31.35	121	Horz
*2	5502.249	54.24	PK	34.9	-34.9	7.6	1	62.84	-	-	-	-	121	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
3	1329.835	47.71	PK	28.5	-35.5	3.5	0.1	44.31	53.97	-9.66	74	-29.69	100	Vert
*4	5498.951	47.22	PK	34.9	-34.9	7.6	1	55.82	-	-	-	-	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
5	11835.882	35.33	PK	39.1	-33.4	11.5	0.1	52.63	-	-	74	-21.37	100	Horz
6	15655.972	34.07	PK	41.1	-32.9	13.5	0.3	56.07	-	-	74	-17.93	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
7	17818.091	33.03	PK	42.2	-31.4	14.7	0	58.53	-	-	74	-15.47	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
8	11815.092	23.44	PK	39.1	-33.4	11.4	0.1	40.64	53.97	-13.33	74	-33.36	100	Horz
9	15649.175	23	PK	41.1	-32.9	13.5	0.2	44.9	53.97	-9.07	74	-29.1	200	Horz

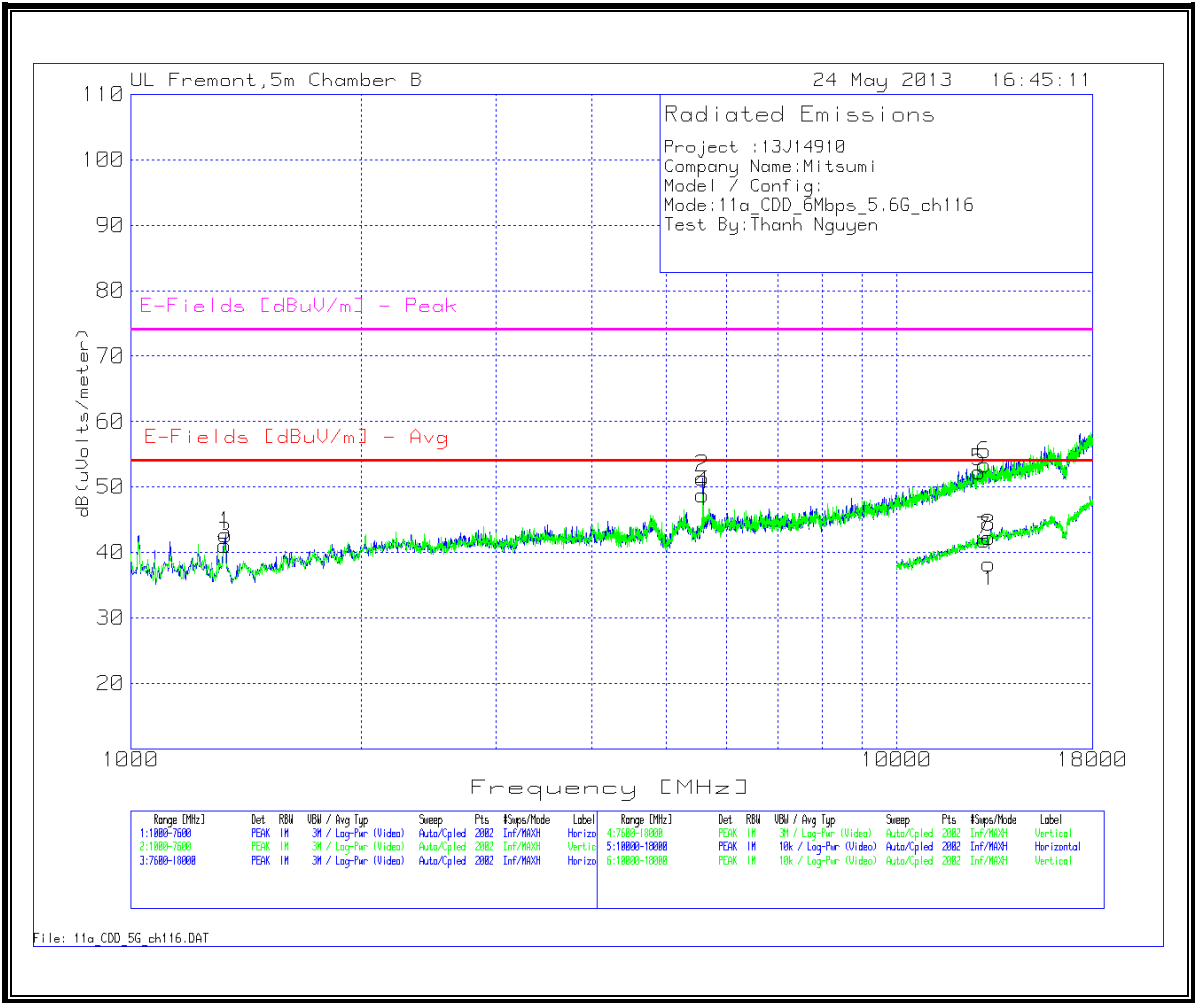
Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
10	17856.072	21.76	PK	42.2	-31.3	14.8	0.4	47.86	53.97	-6.11	74	-26.14	100	Vert

* Fundamental

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

Mid Channel



MID CHANNEL 116 DATA

Project :13J14910

Company Name:Mitsumi

Model / Config:

Mode:11a_CDD_6Mbps_5.6G_ch116

Test By:Thanh Nguyen

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1329.835	46.16	PK	28.5	-35.5	3.5	0.1	42.76	53.97	-11.21	74	-31.24	200	Horz
*2	5578.111	42.67	PK	35	-34.9	7.6	1	51.37	-	-	-	-	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	1326.537	44.49	PK	28.5	-35.5	3.5	0.1	41.09	53.97	-12.88	74	-32.91	200	Vert
*4	5578.111	40.11	PK	35	-34.9	7.6	1	48.81	-	-	-	-	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	12807.796	32.61	PK	39.2	-32.1	12	0.6	52.31	-	-	68.2	-15.89	200	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	12994.903	33.62	PK	39.2	-31.8	12.1	0.3	53.42	-	-	68.2	-14.78	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	12998.501	22.12	PK	39.2	-31.8	12.1	0.3	41.92	-	-	68.2	-26.28	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T345 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	13198.401	22.96	PK	39.1	-31.8	12.2	-0.1	42.36	-	-	68.2	-25.84	200	Vert

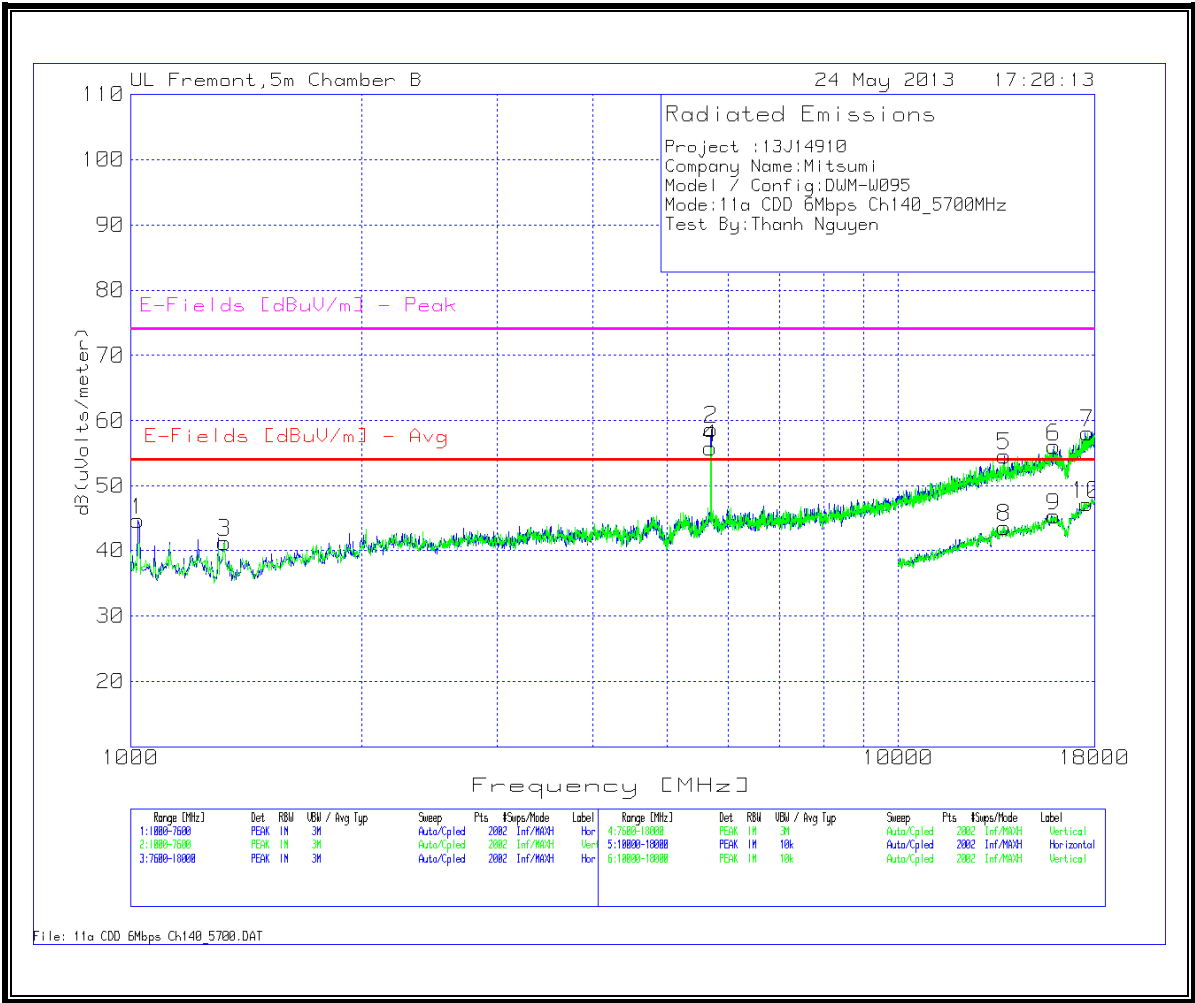
* Fundametal

PK - Peak detector

QP - Quasi-Peak detector

Av - Average detector

High Channel



HIGH CHANNEL 140 DATA

Project :13114910

Company Name:Mitsumi

Model / Config:DWM-W095

Mode:11a CDD 6Mbps Ch140_5700MHz

Test By:Thanh Nguyen

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1023.088	49.81	PK	27.5	-36	3.2	0.1	44.61	53.97	-9.36	74	-29.39	100	Horz
*2	5703.448	49.74	PK	35.1	-34.9	7.7	1	58.64	-	-	-	-	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T161 BRF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	1326.537	44.6	PK	28.5	-35.5	3.5	0.1	41.2	53.97	-12.77	74	-32.8	200	Vert
*4	5696.852	46.97	PK	35.1	-34.9	7.7	1	55.87	-	-	-	-	200	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	13738.131	34.49	PK	39.1	-32.1	12.5	0.6	54.59	-	-	68.2	-13.61	100	Horz
6	15947.026	33.35	PK	41.5	-32.9	13.7	0.4	56.05	-	-	74	-17.95	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	17636.182	32.9	PK	42.1	-31.5	14.6	0	58.1	-	-	68.2	-10.1	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	13742.129	23.48	PK	39.1	-32.1	12.5	0.6	43.58	-	-	68.2	-24.62	200	Horz
9	15945.027	22.62	PK	41.5	-32.9	13.7	0.4	45.32	53.97	-8.65	74	-28.68	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	17580.21	21.65	PK	42.1	-31.5	14.6	0.3	47.15	-	-	68.2	-21.05	200	Vert

* Fundametal

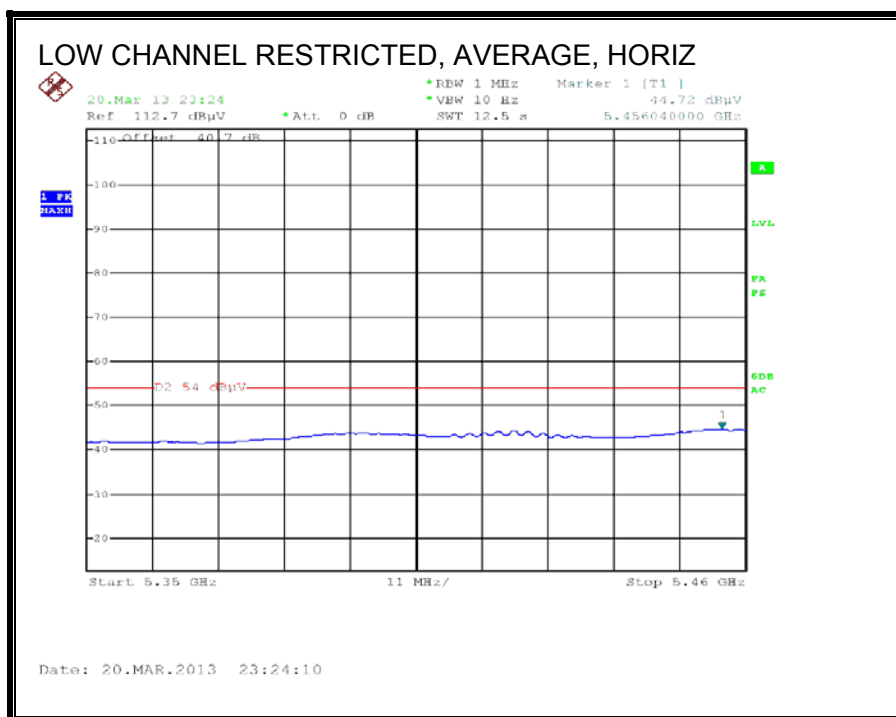
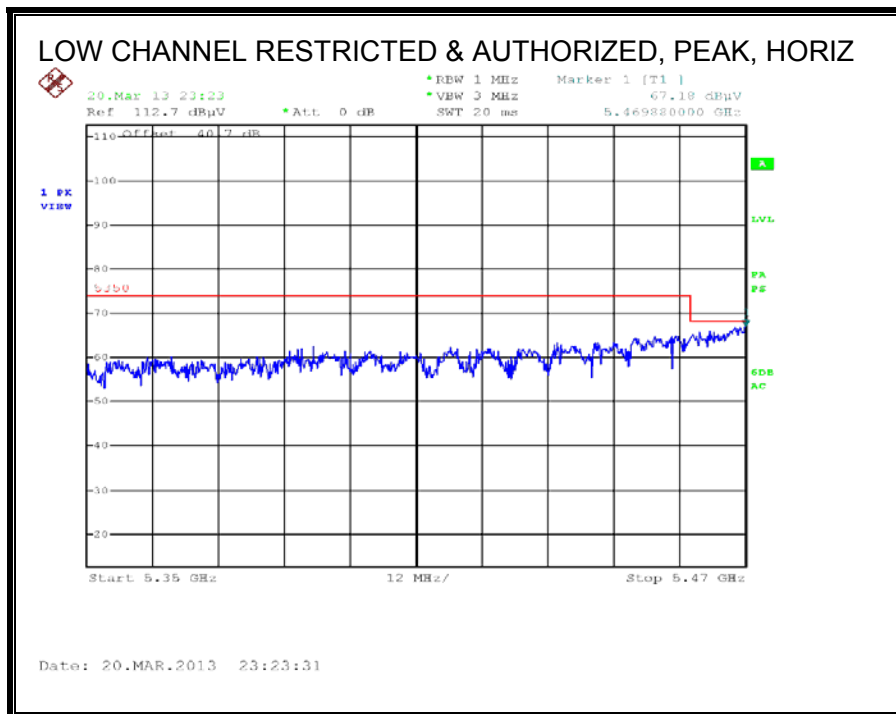
PK - Peak detector

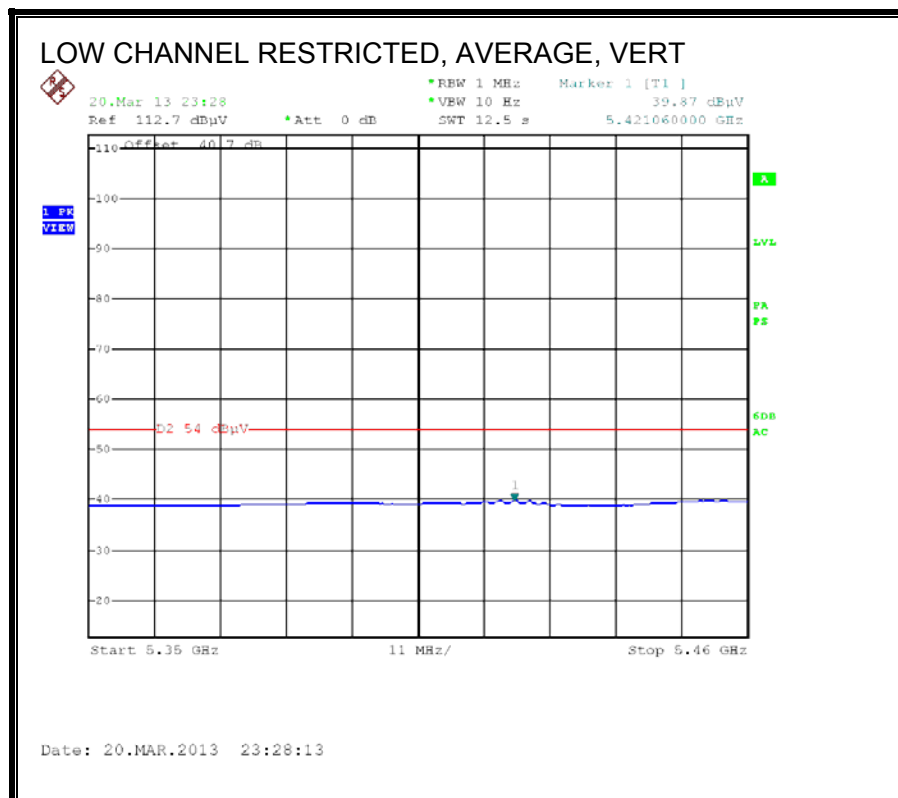
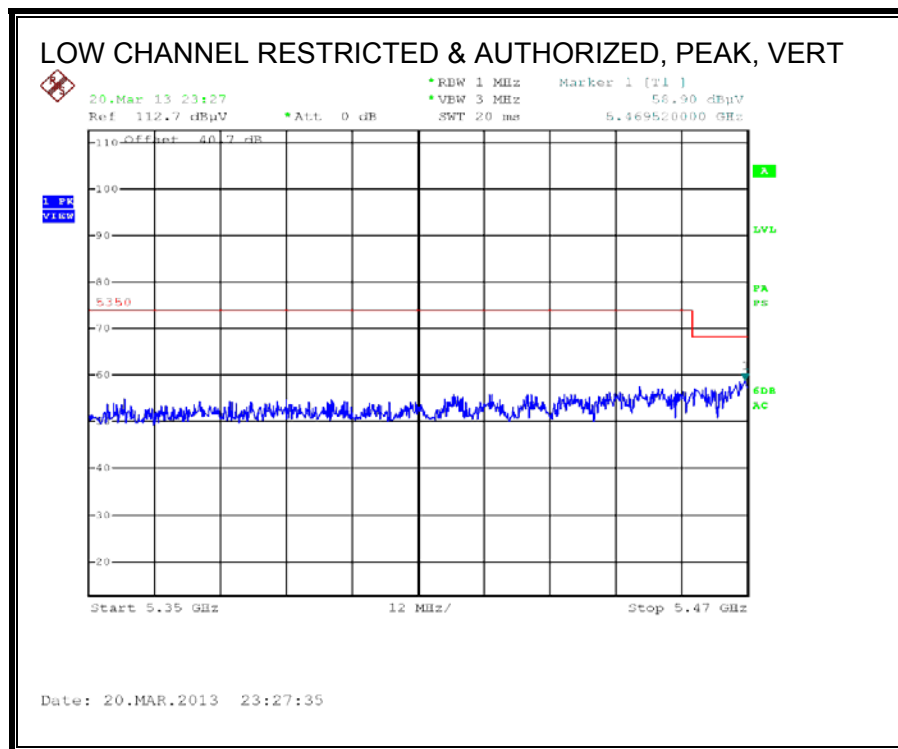
QP - Quasi-Peak detector

Av - Average detector

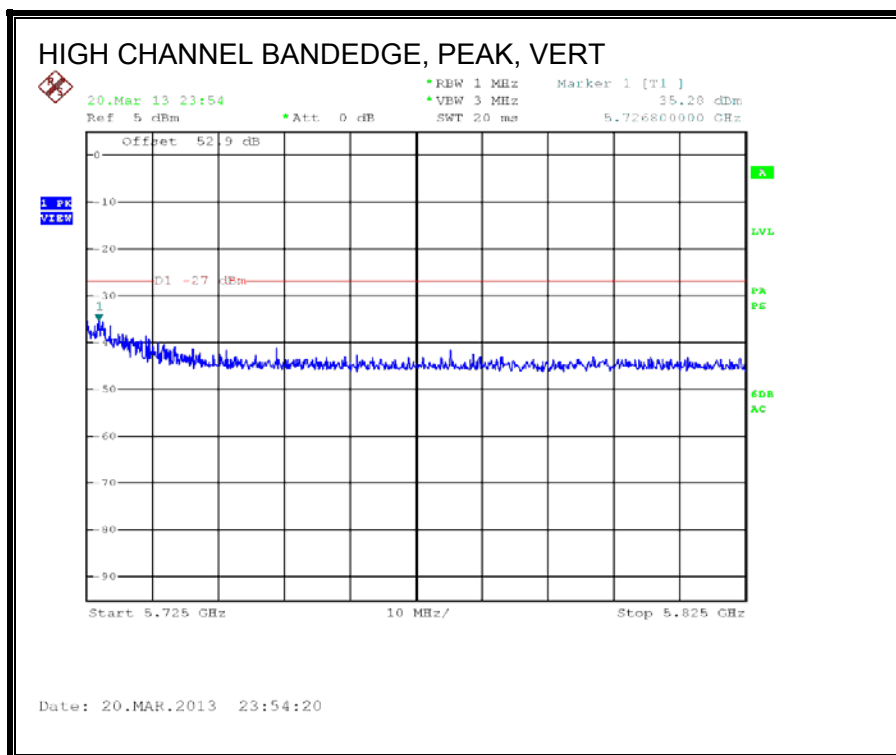
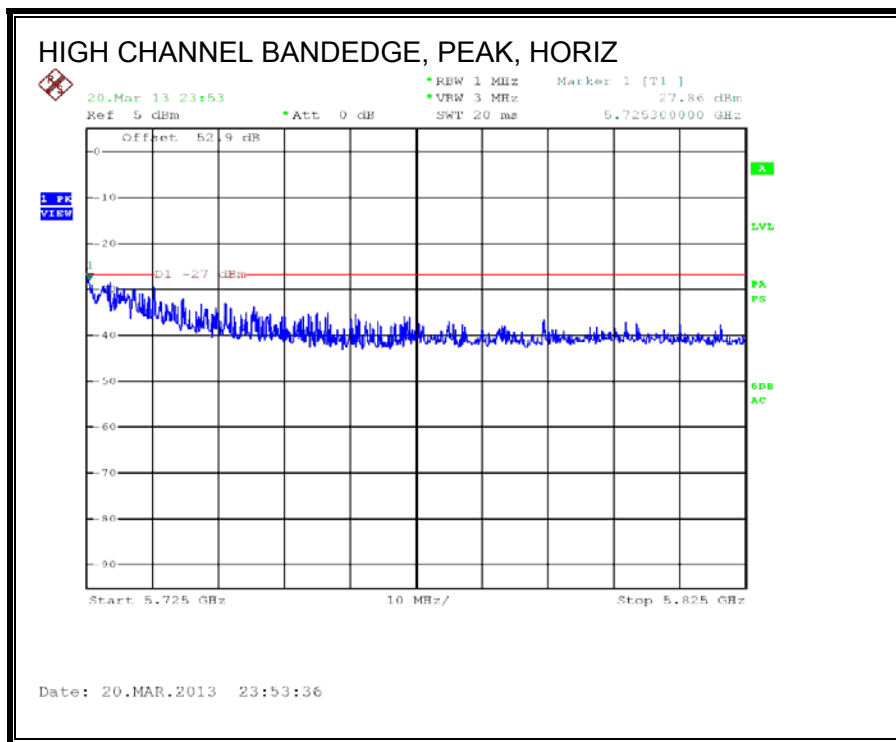
9.13. 802.11n HT20 CDD MCS0 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS

Low Channel

