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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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

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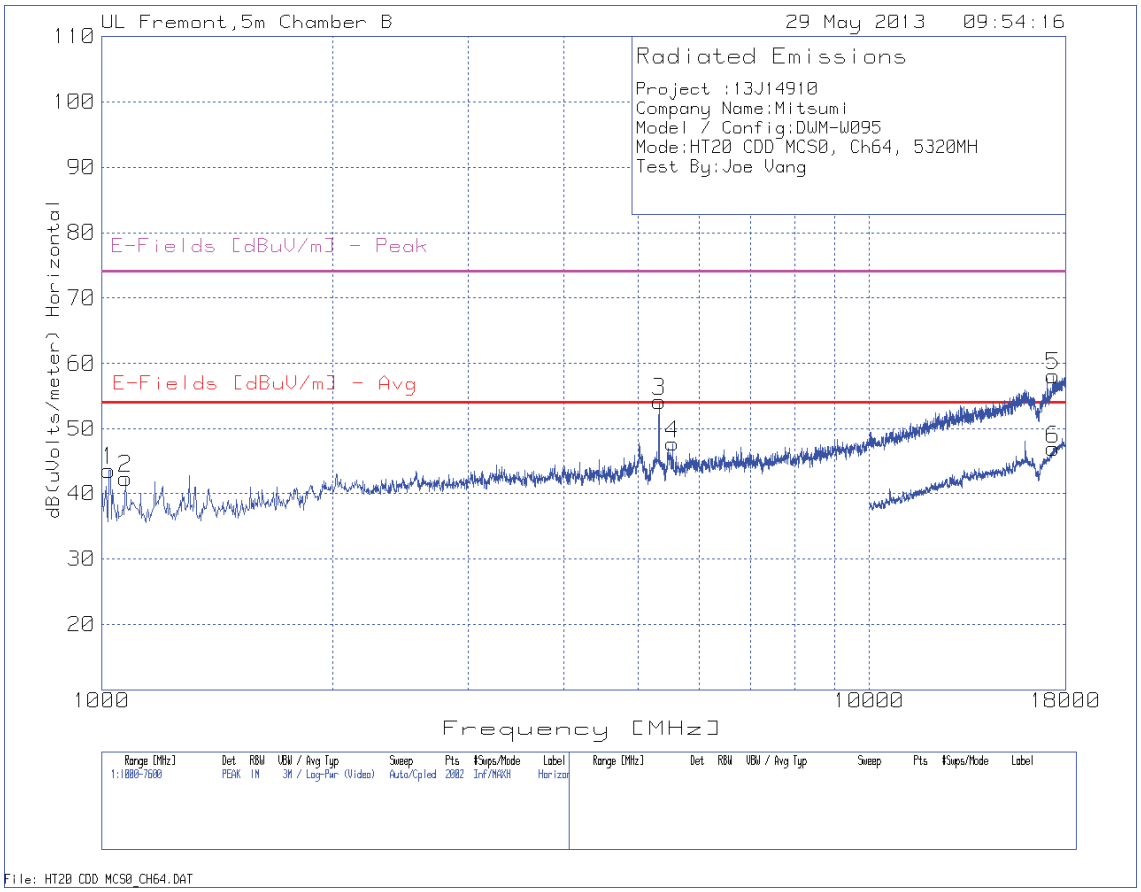
HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL GRAPH

HORIZONTAL



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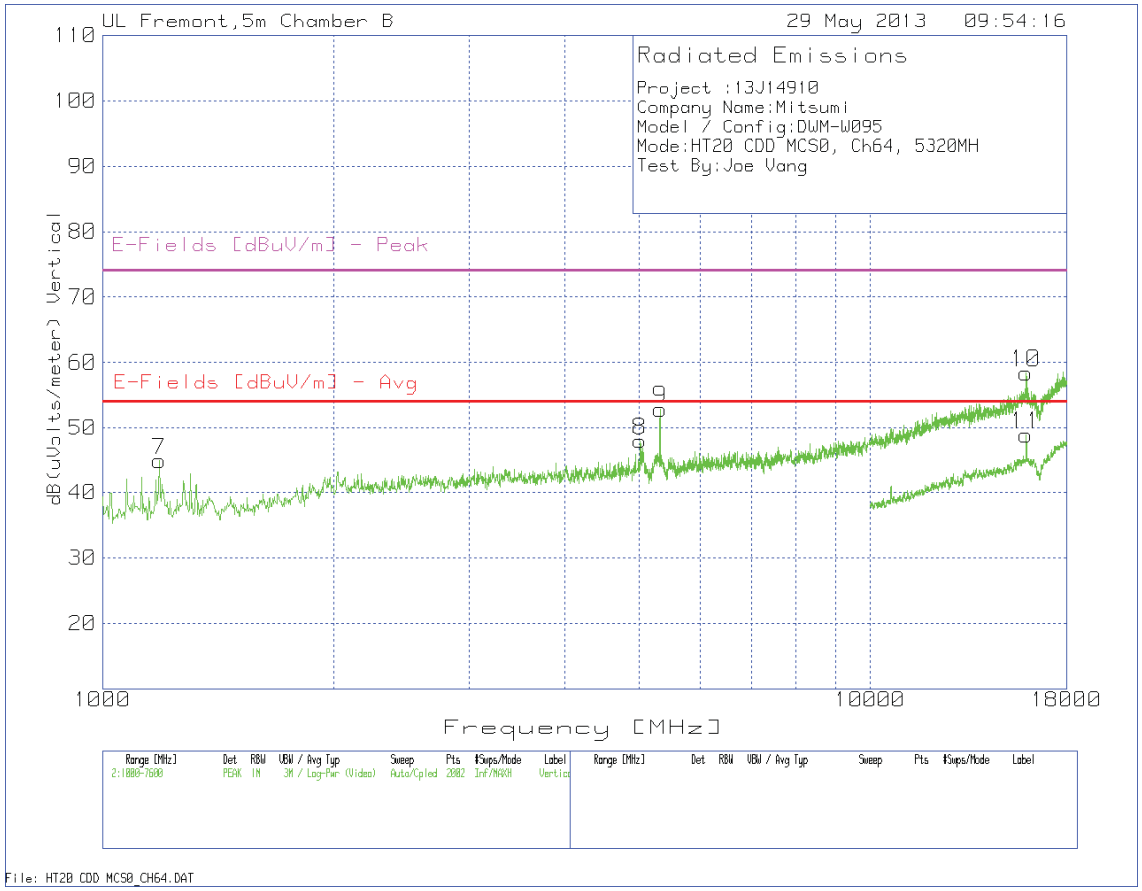
VERTICAL



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HIGH CHANNEL 64 DATA

Project :13J14910
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

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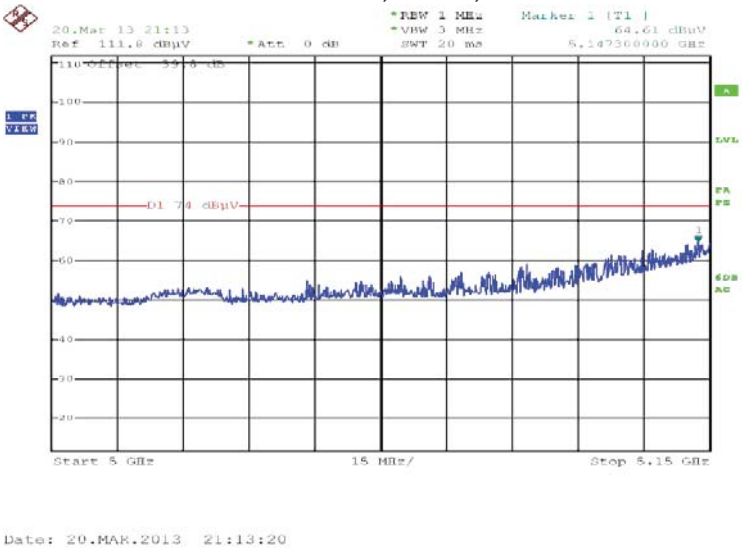
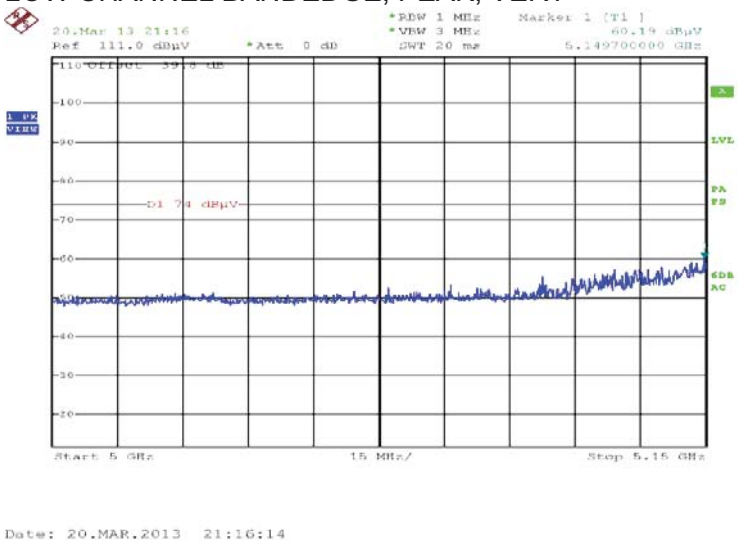
9.9. 802.11n HT20 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL BANDEDGE, PEAK, HORIZ



LOW CHANNEL BANDEDGE, PEAK, VERT



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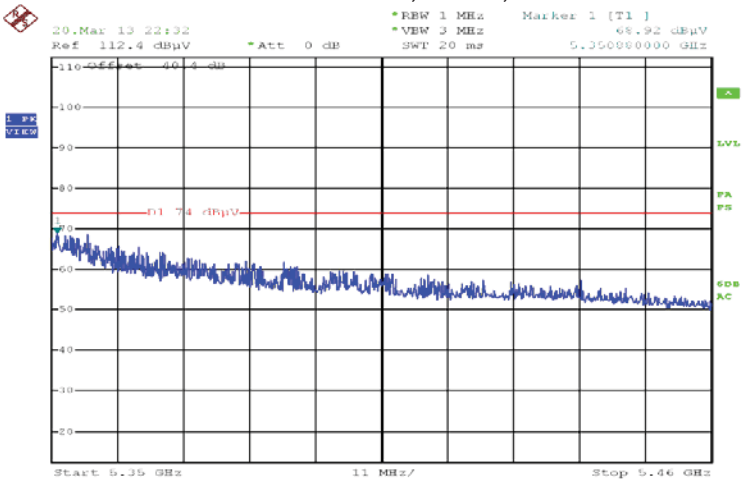
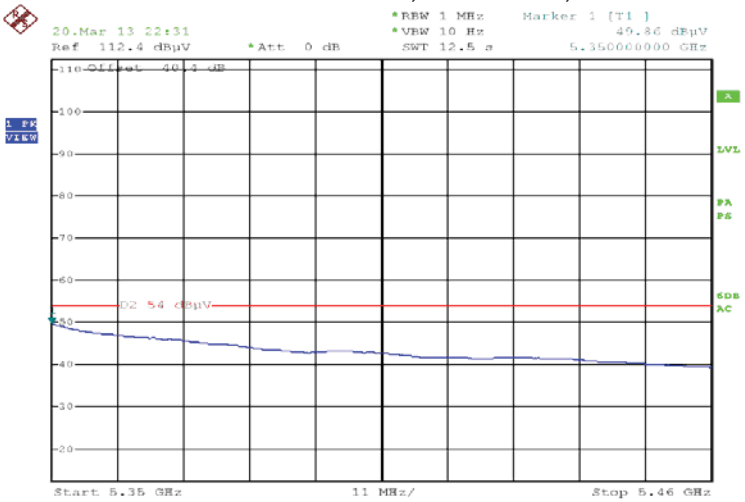
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL RESTRICTED, PEAK, HORIZ



Date: 20.MAR.2013 22:32:04

HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



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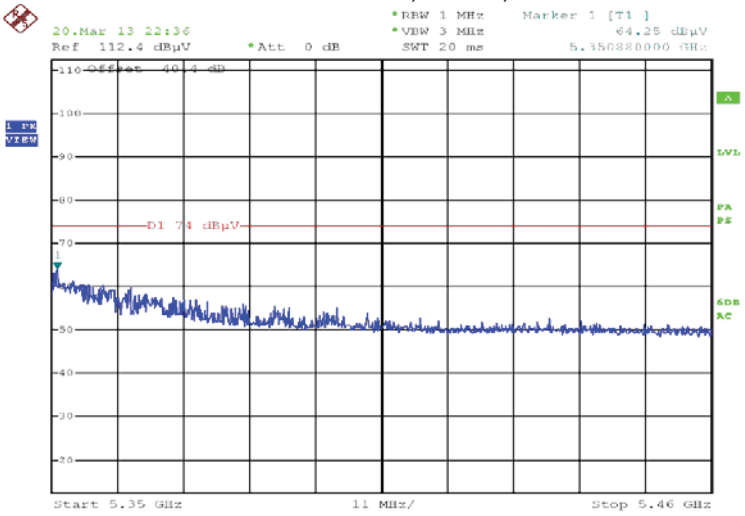
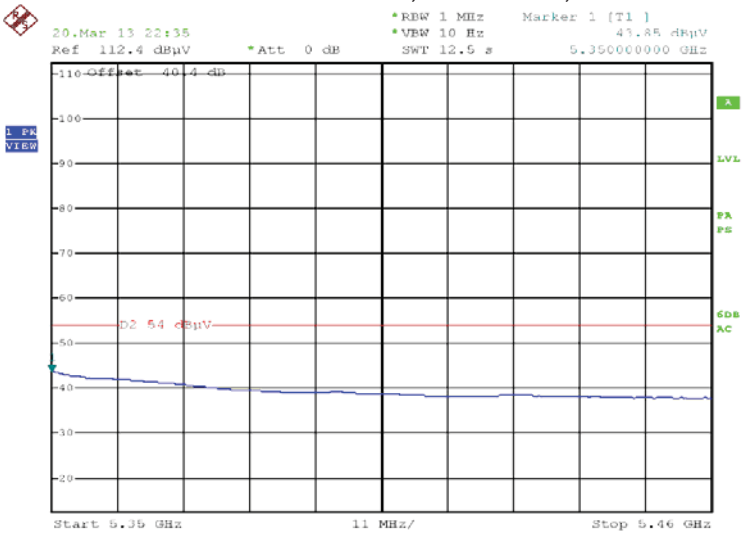
HIGH CHANNEL RESTRICTED, PEAK, VERT



Date: 20.MAR.2013 22:36:11

HIGH CHANNEL RESTRICTED, AVERAGE, VERT



Date: 20.MAR.2013 22:35:01

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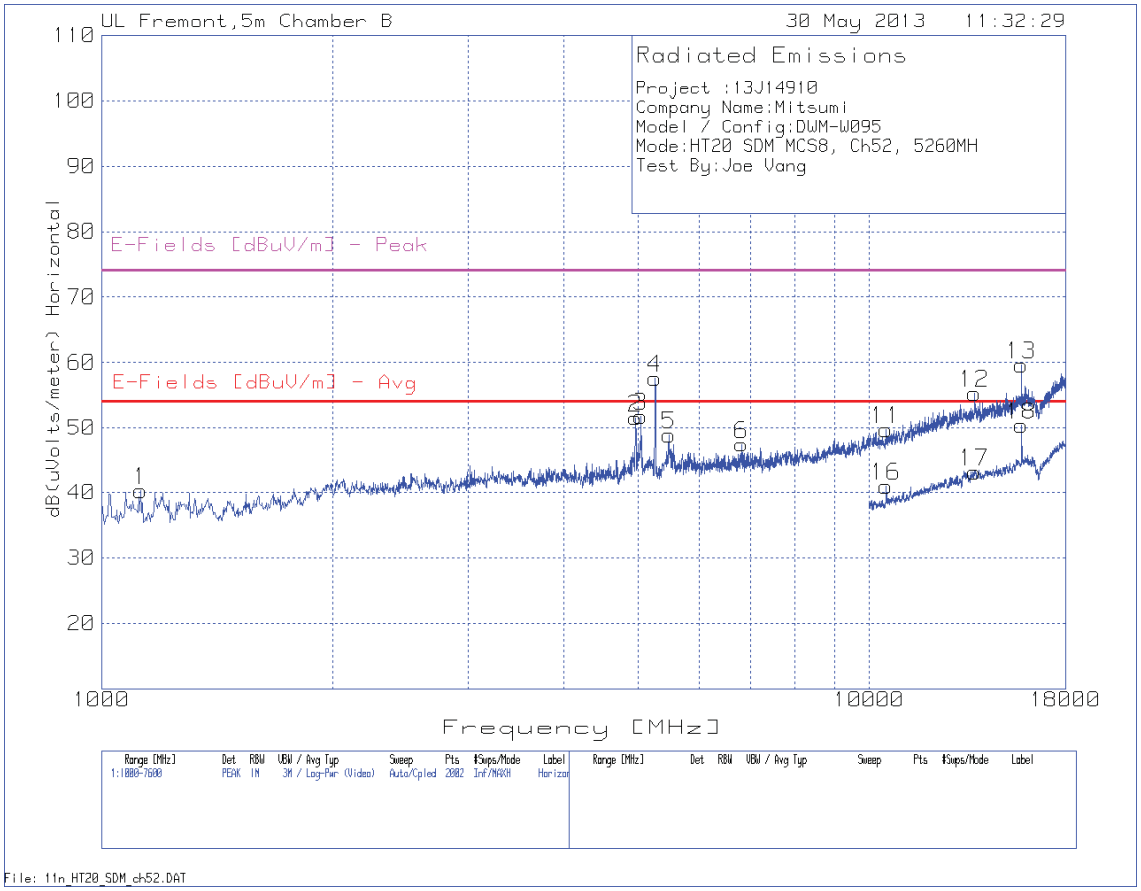
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL GRAPH

HORIZONTAL



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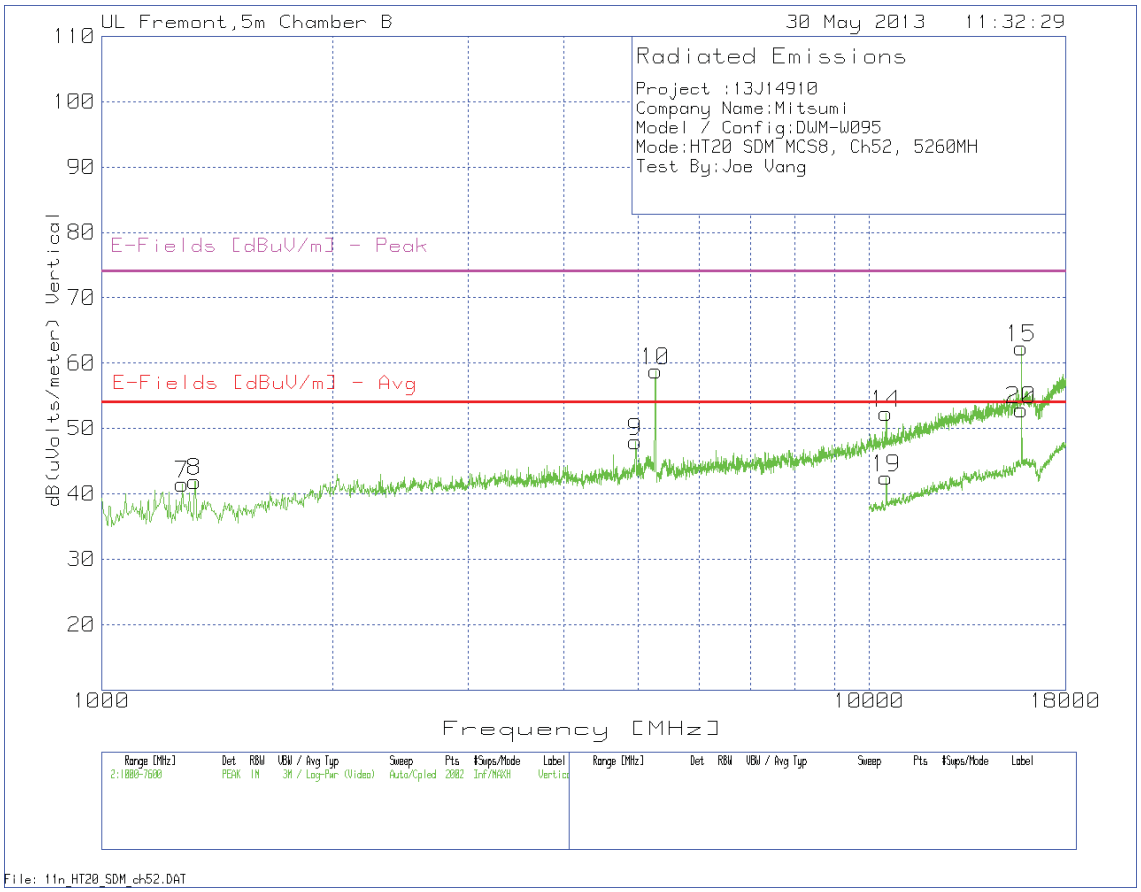
VERTICAL



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LOW CHANNEL 52 DATA

Project :13J14910
Company Name:Mitsumi
Model / Config:DWM-W095
Mode:HT20 SDM 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

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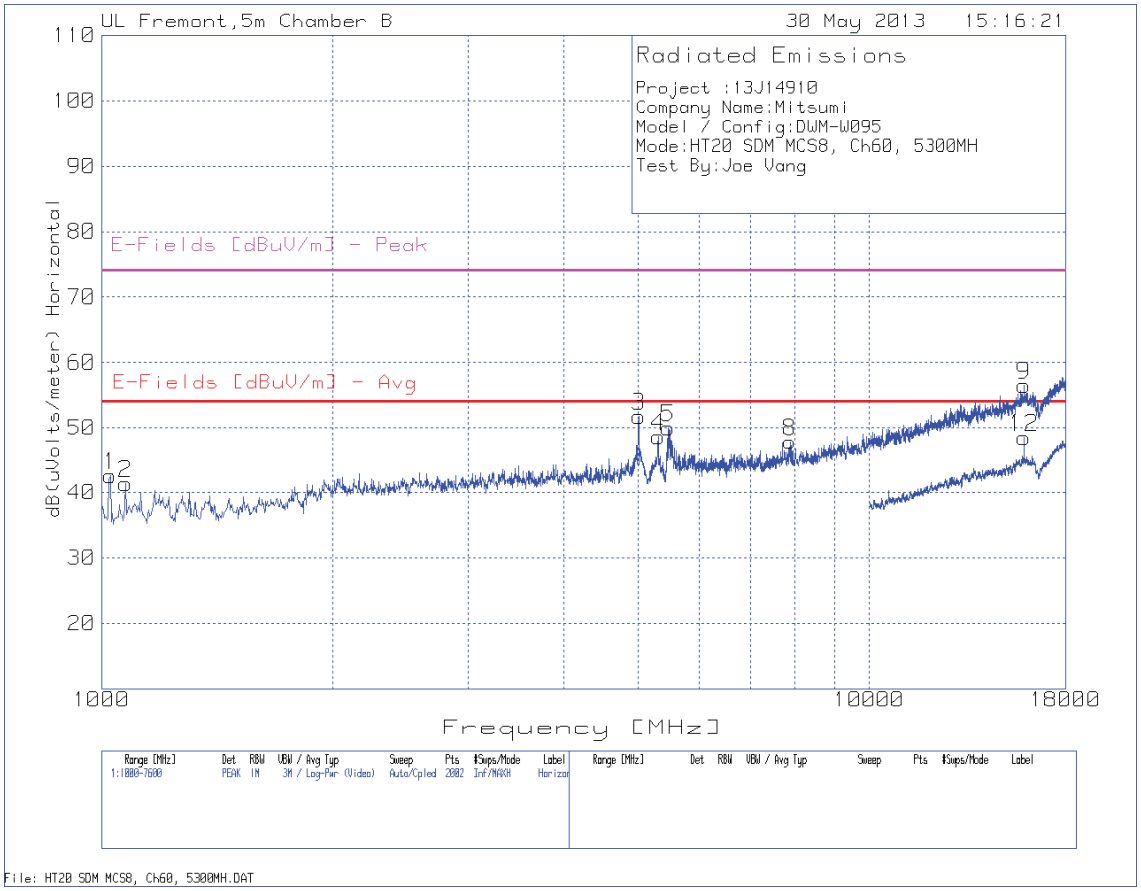
HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL GRAPH

HORIZONTAL



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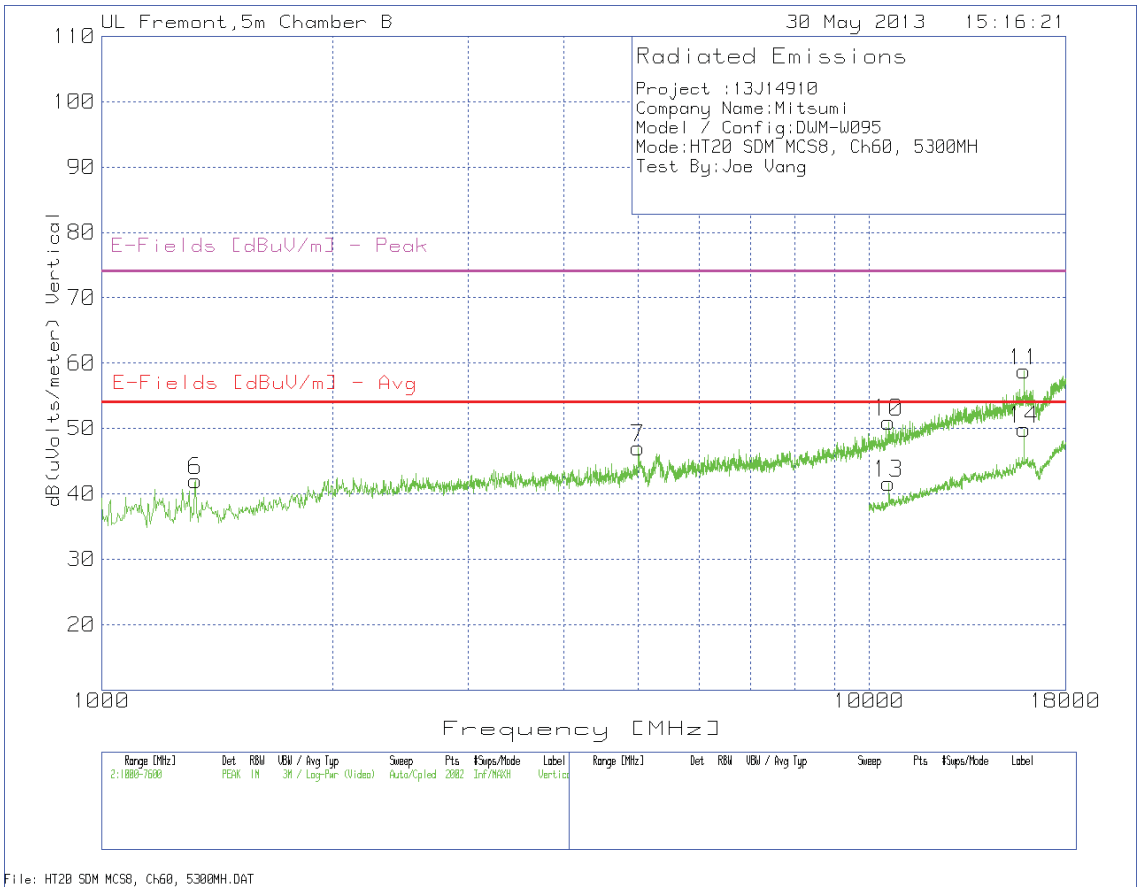
VERTICAL



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MID CHANNEL 60 DATA

Project :13J14910
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/m eter)	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/m eter)	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/m eter)	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/m eter)	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/m eter)	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

* Fundamentel Ferquencies

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

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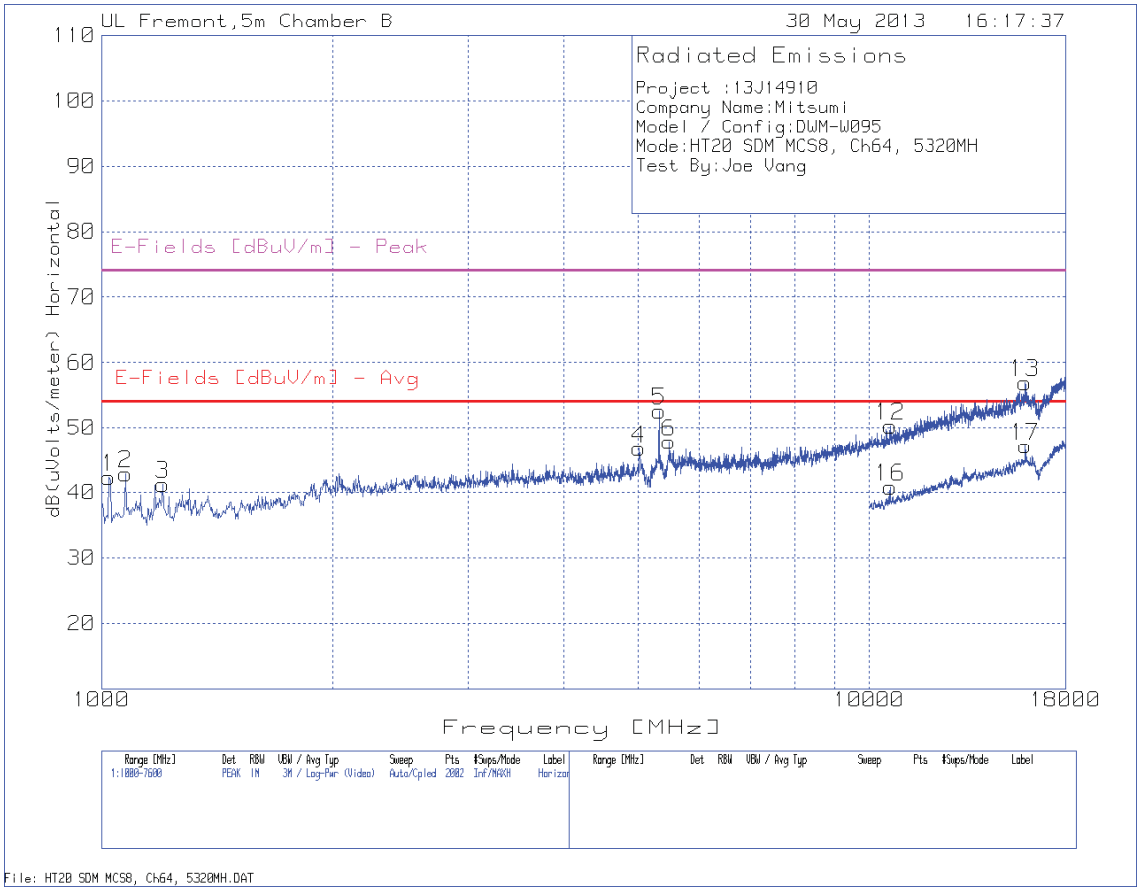
HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL GRAPH

HORIZONTAL



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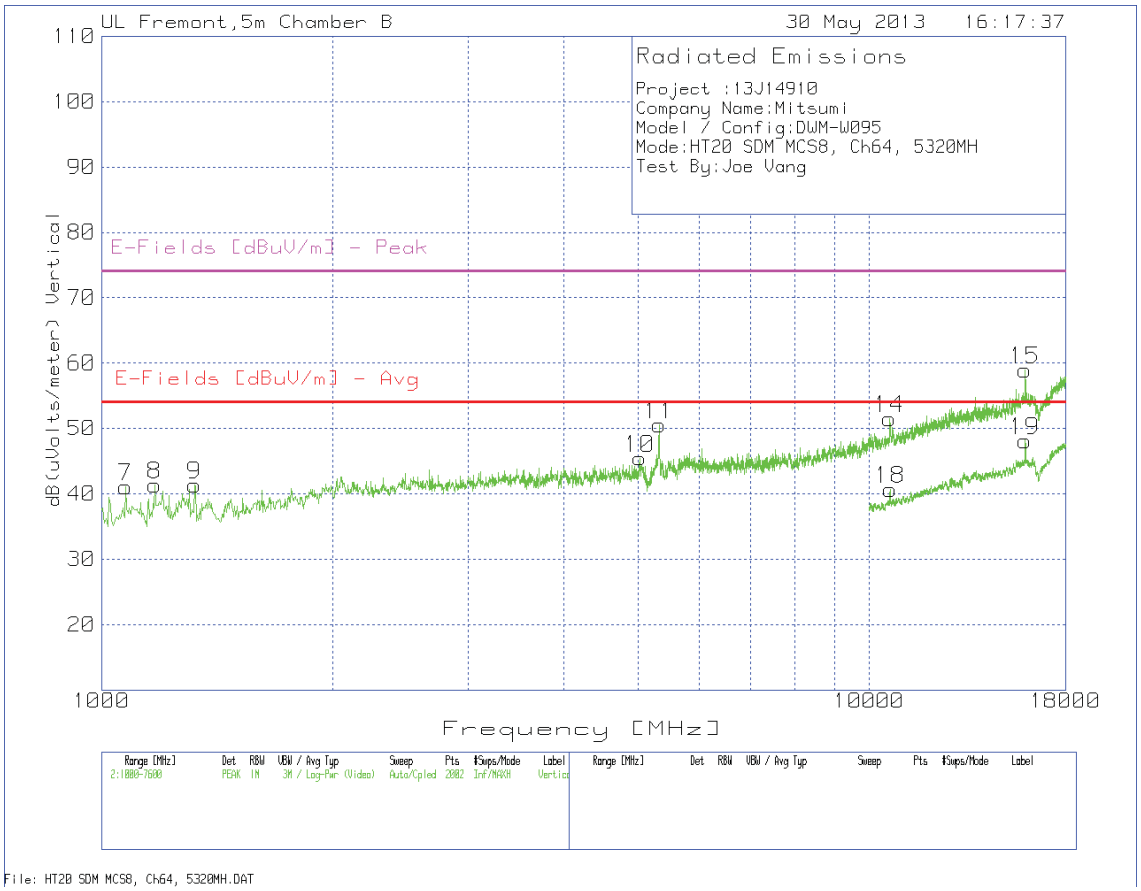
VERTICAL



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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

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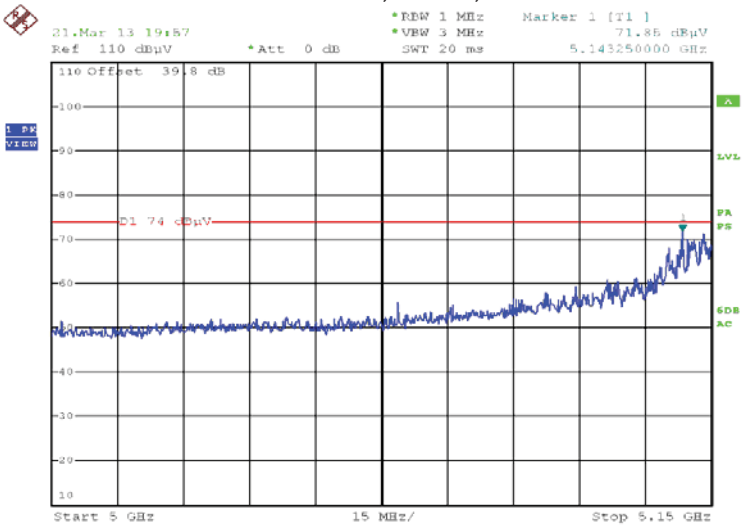
9.10. 802.11n HT40 CDD MCS0 2TX MODE IN THE 5.3 GHz BAND

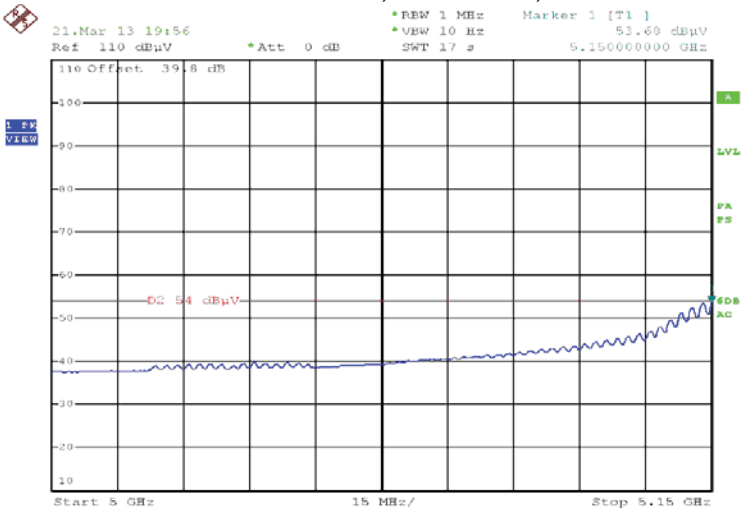
AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL BANDEDGE, PEAK, HORIZ



Date: 21.MAR.2013 19:57:07

LOW CHANNEL BANDEDGE, AVERAGE, HORIZ



Date: 21.MAR.2013 19:56:37

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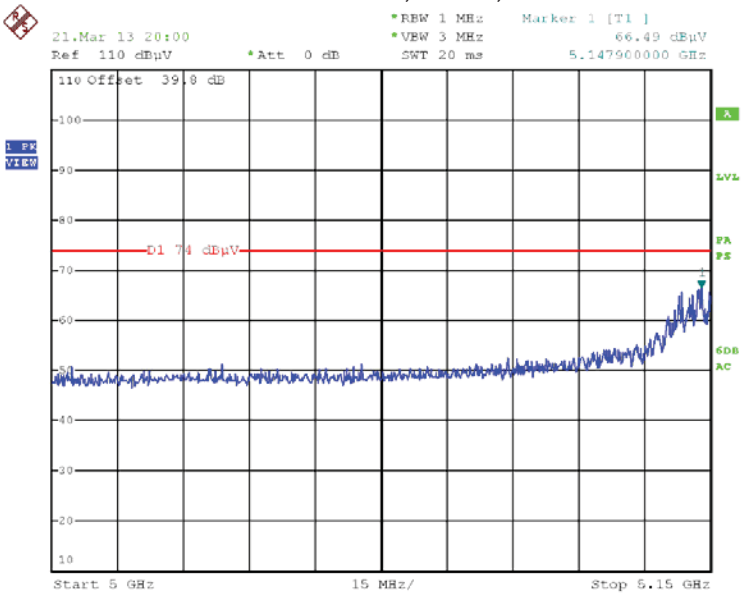
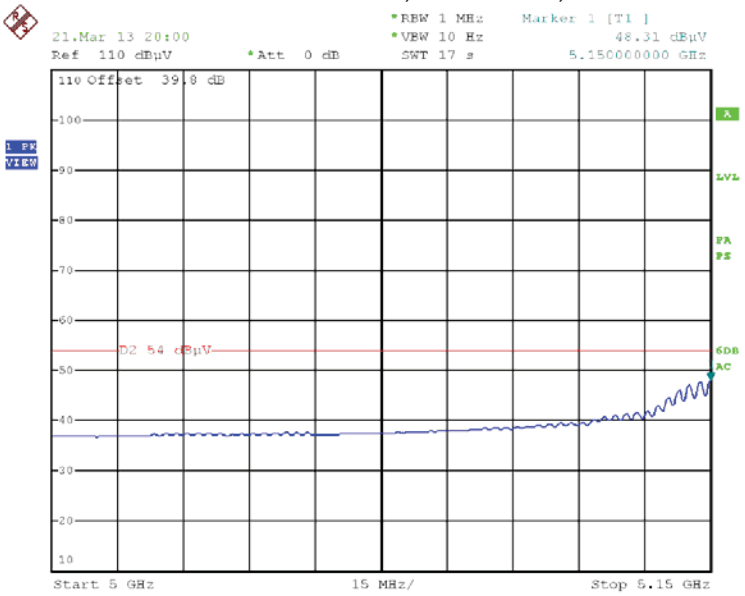
LOW CHANNEL RESTRICTED, PEAK, VERT



Date: 21.MAR.2013 20:00:41

LOW CHANNEL RESTRICTED, AVERAGE, VERT



Date: 21.MAR.2013 20:00:14

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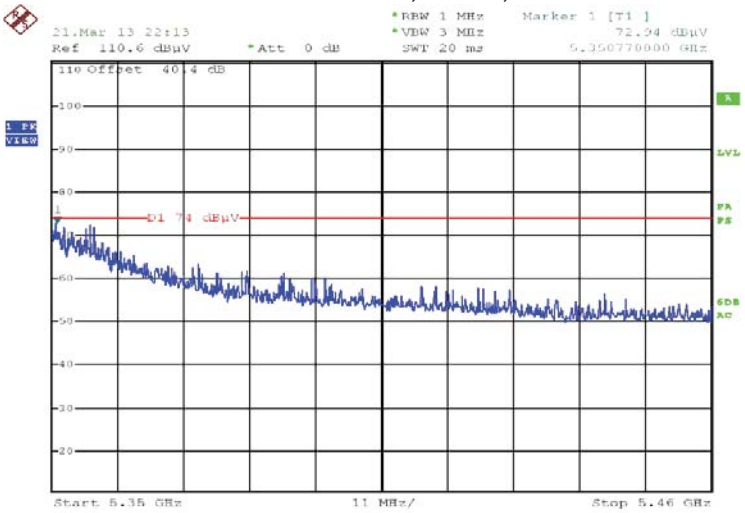
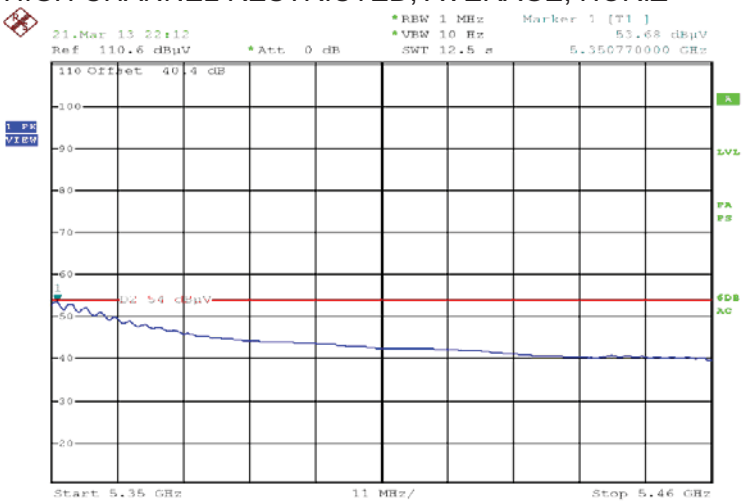
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL RESTRICTED, PEAK, HORIZ



Date: 21.MAR.2013 22:13:51

HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



Date: 21.MAR.2013 22:12:53

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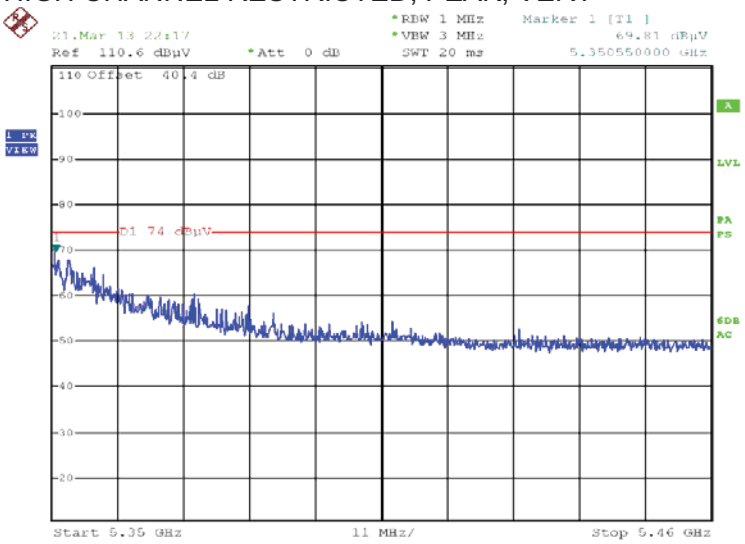
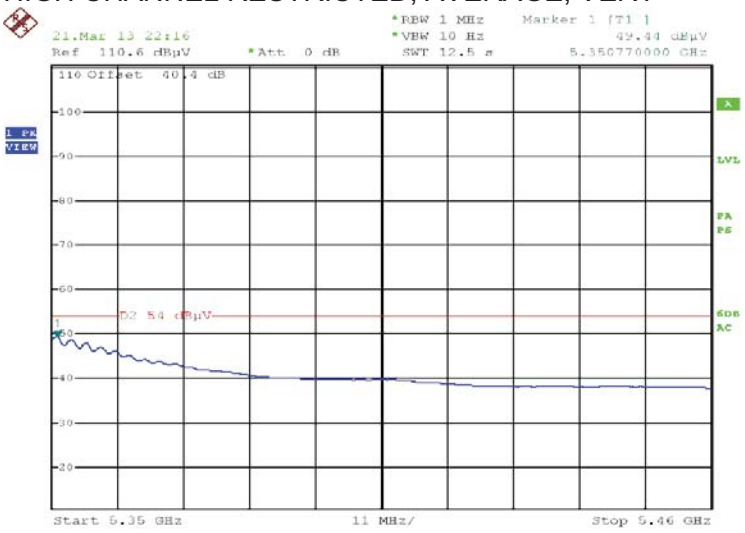
HIGH CHANNEL RESTRICTED, PEAK, VERT



Date: 21.MAR.2013 22:17:06

HIGH CHANNEL RESTRICTED, AVERAGE, VERT



Date: 21.MAR.2013 22:16:37

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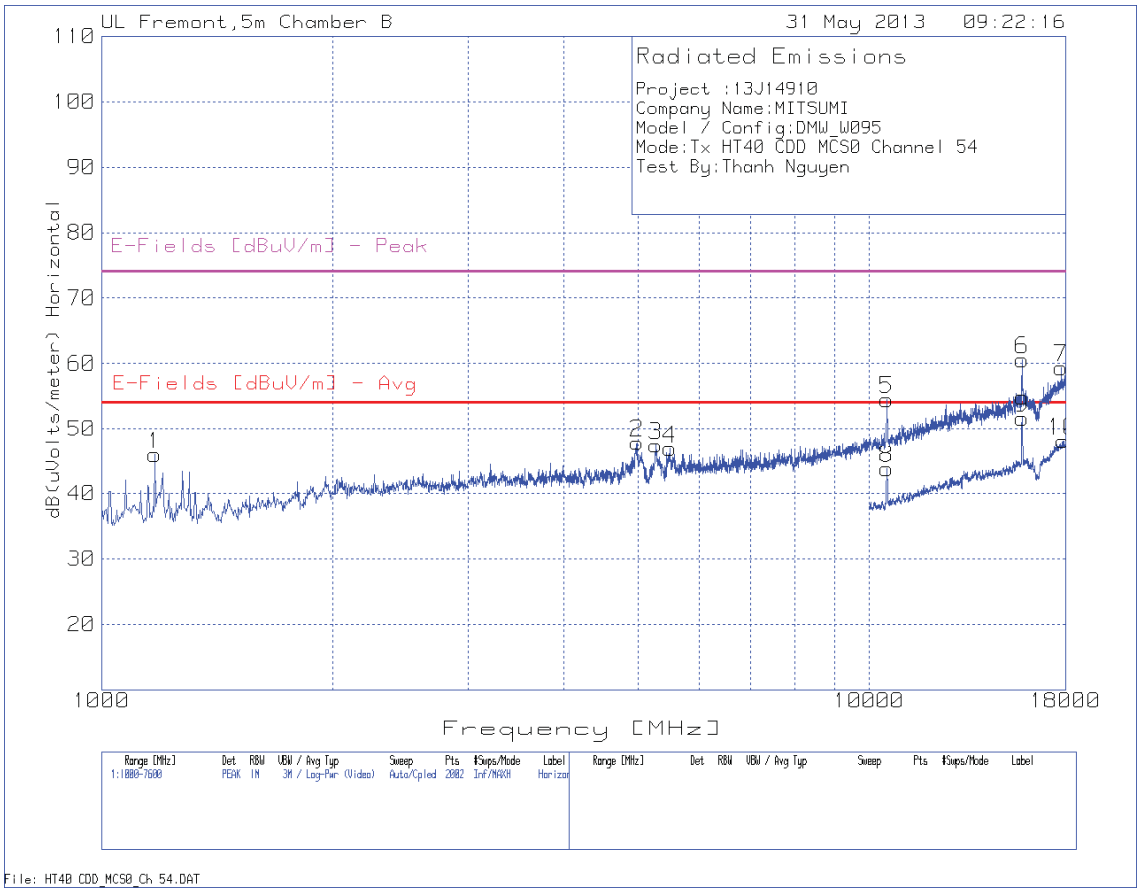
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL GRAPH

HORIZONTAL



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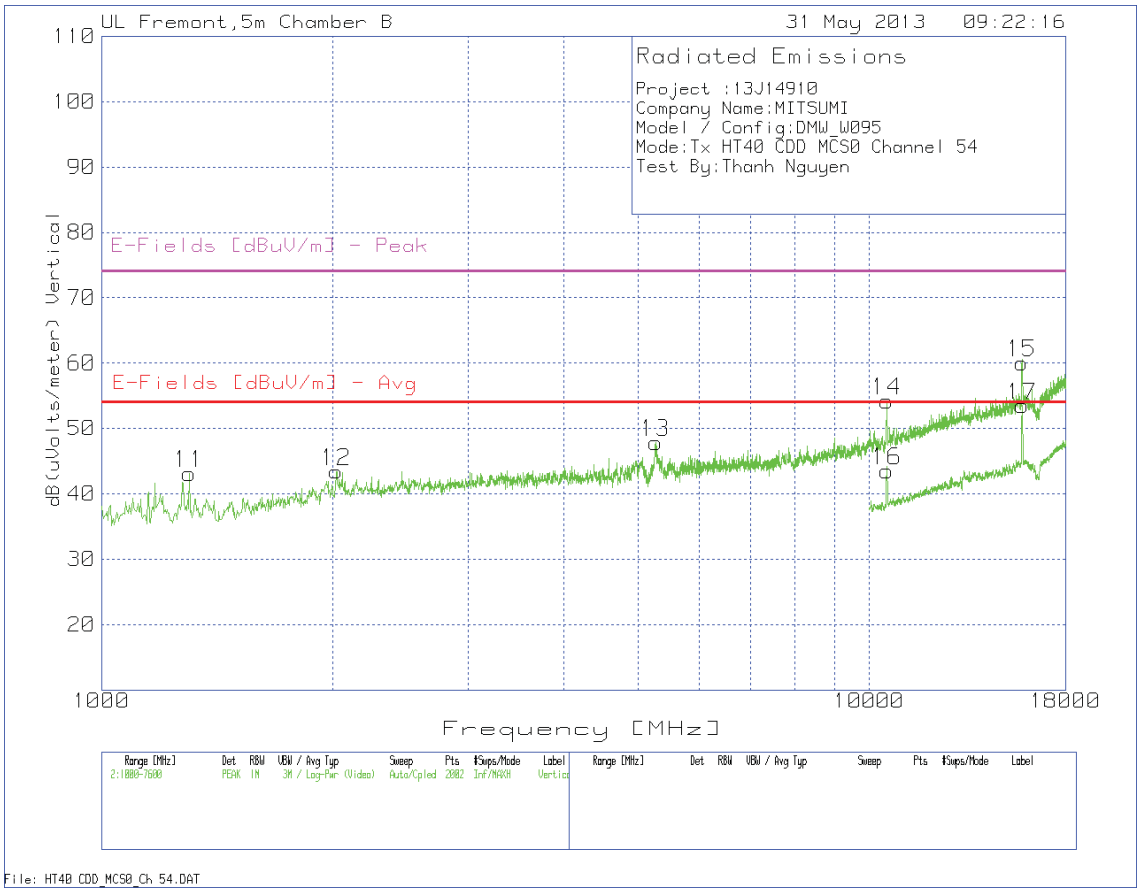
VERTICAL



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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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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

* Fundemental

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

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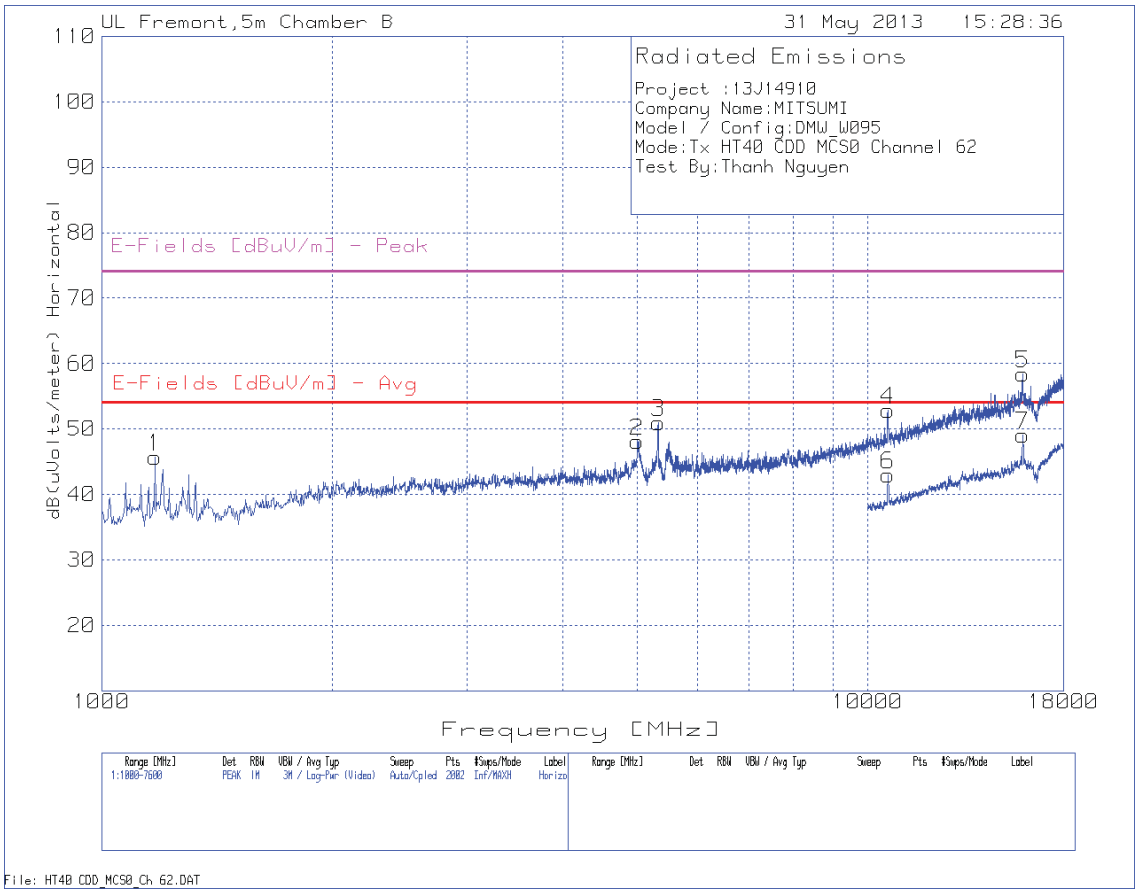
HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL GRAPH

HORIZONTAL



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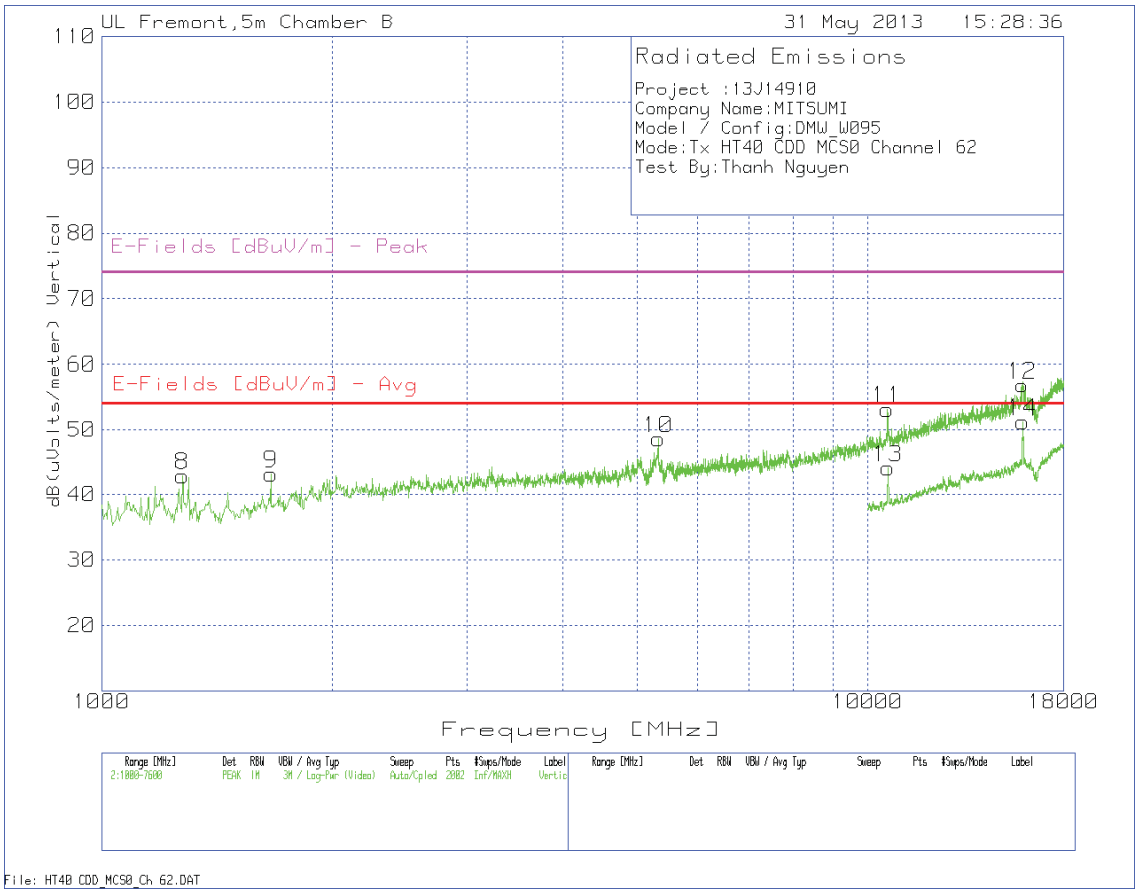
VERTICAL



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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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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/meter)	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

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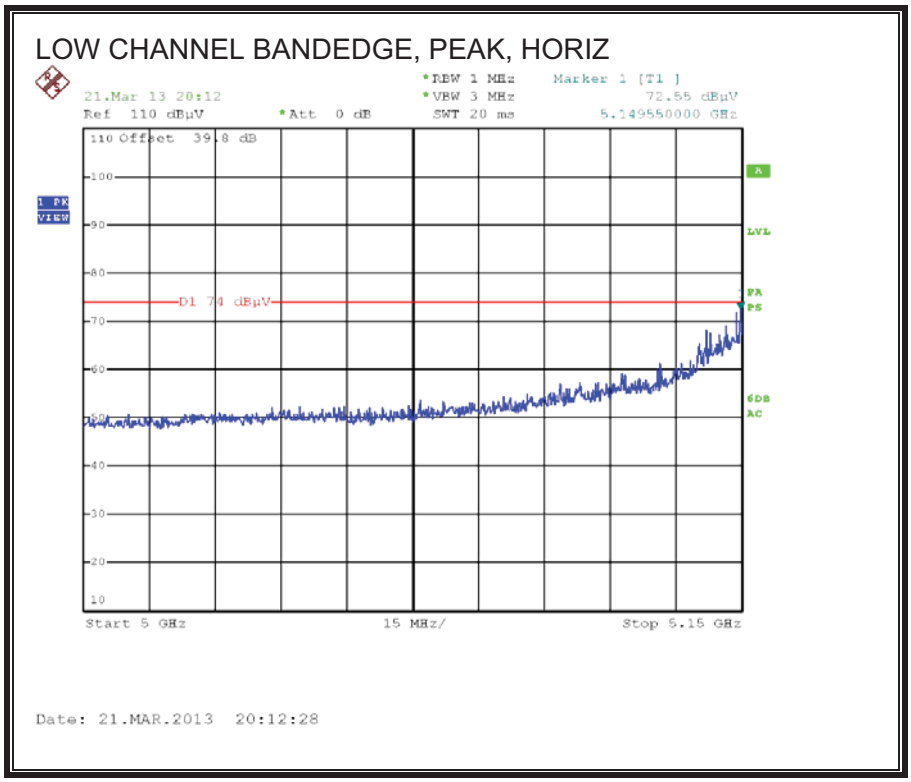
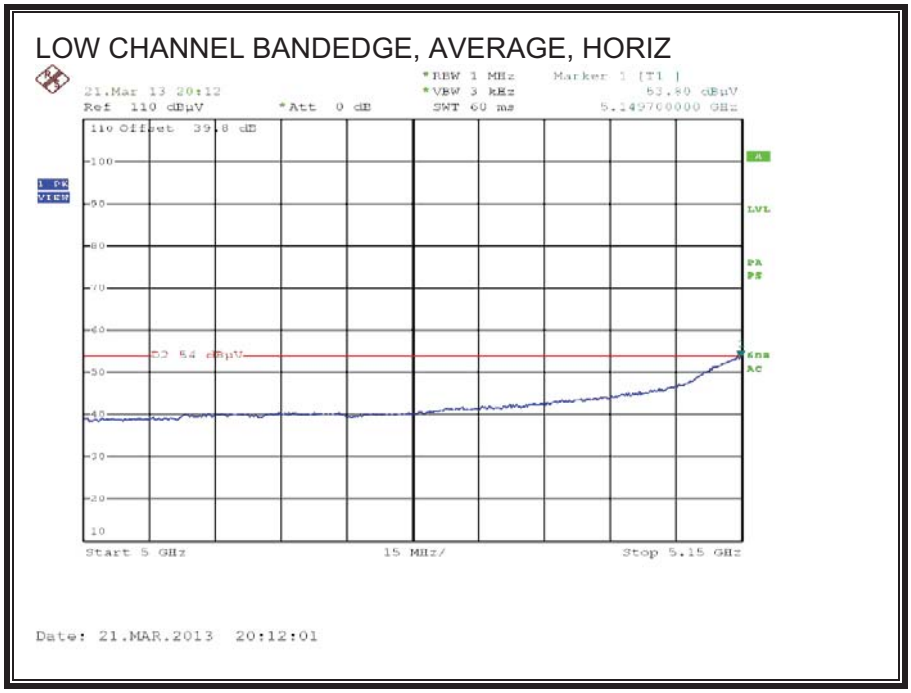
9.11. 802.11n HT40 SDM MCS8 2TX MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (LOW CHANNEL)





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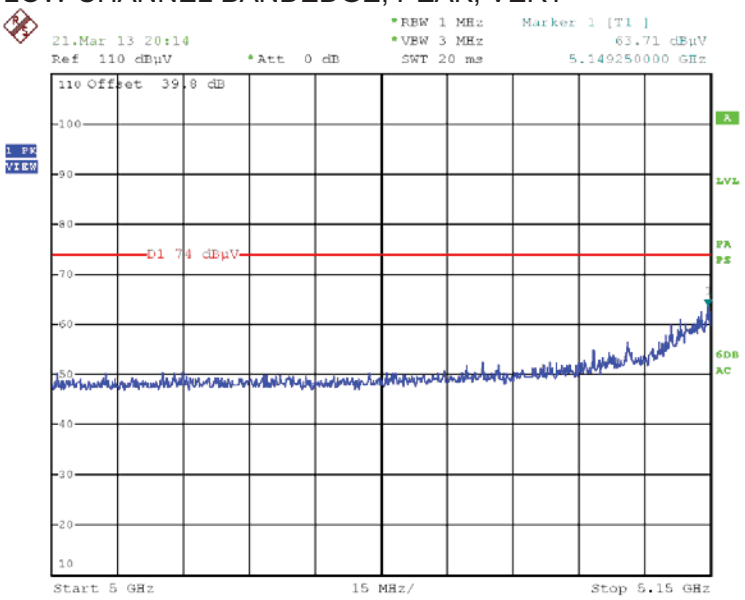
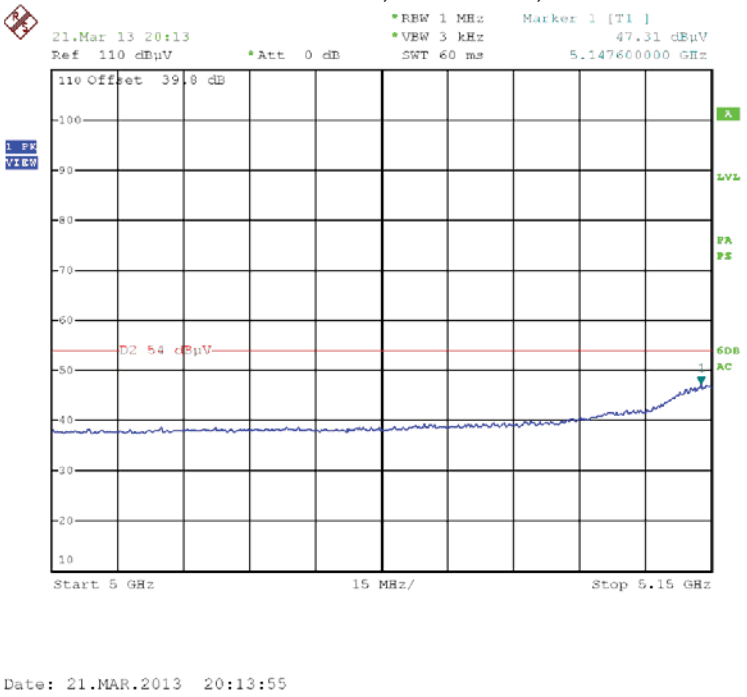
LOW CHANNEL BANDEDGE, PEAK, VERT



LOW CHANNEL BANDEDGE, AVERAGE, VERT



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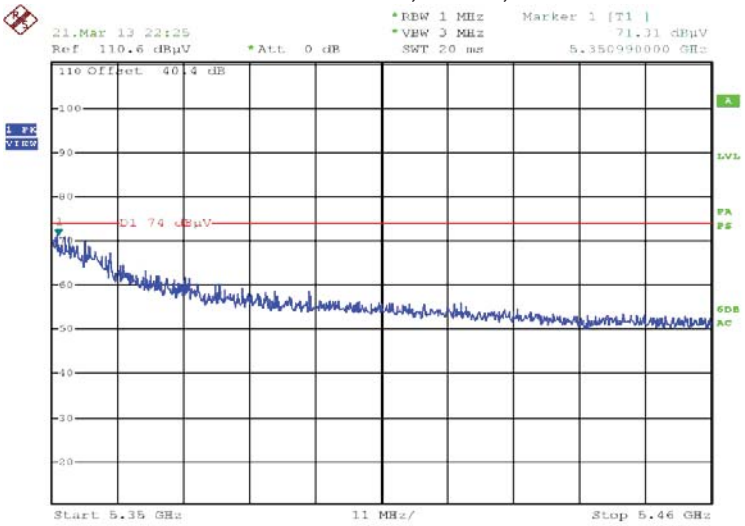
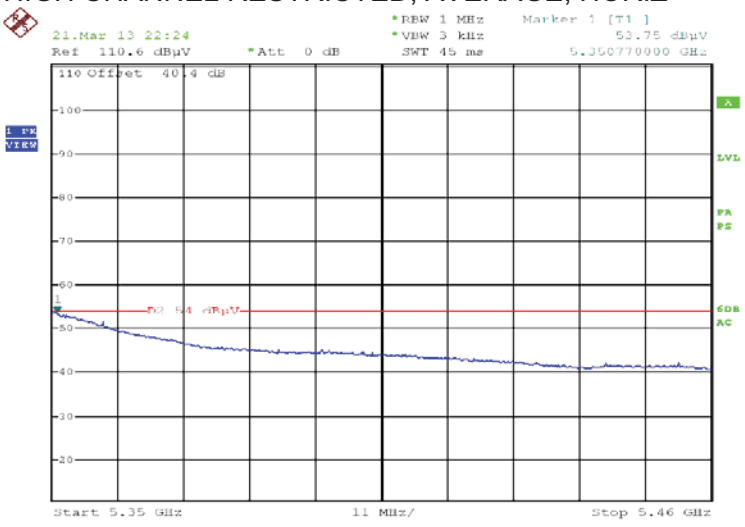
RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL RESTRICTED, PEAK, HORIZ



HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



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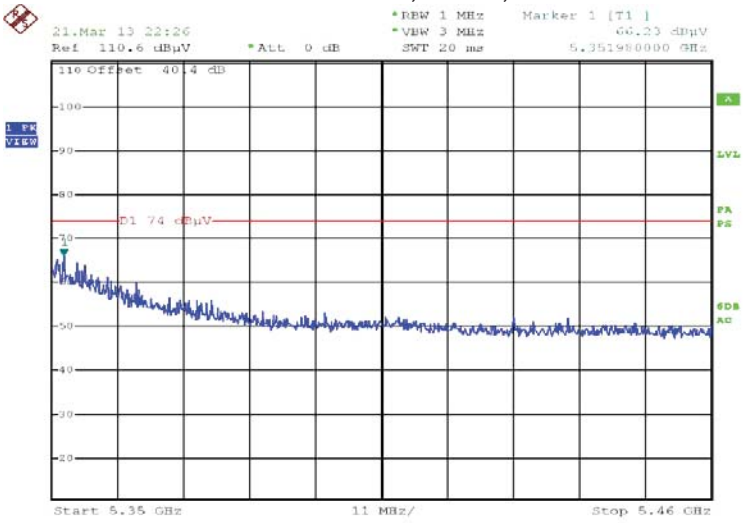
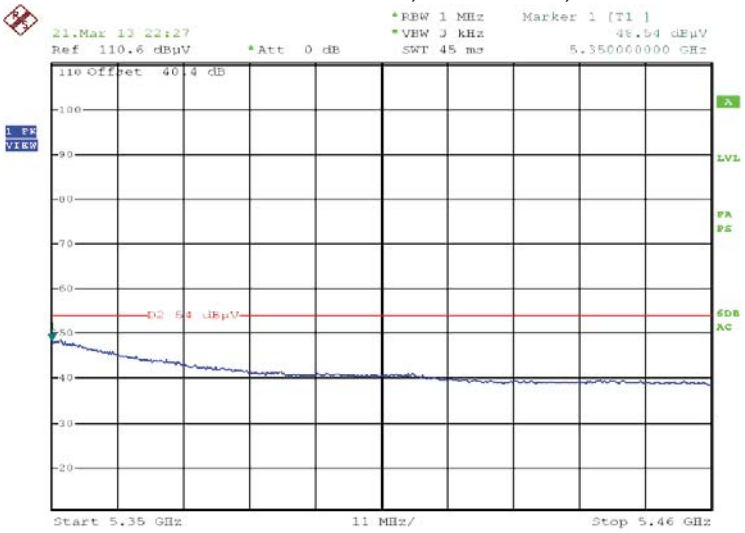
HIGH CHANNEL RESTRICTED, PEAK, VERT



Date: 21.MAR.2013 22:26:27

HIGH CHANNEL RESTRICTED, AVERAGE, VERT



Date: 21.MAR.2013 22:27:01

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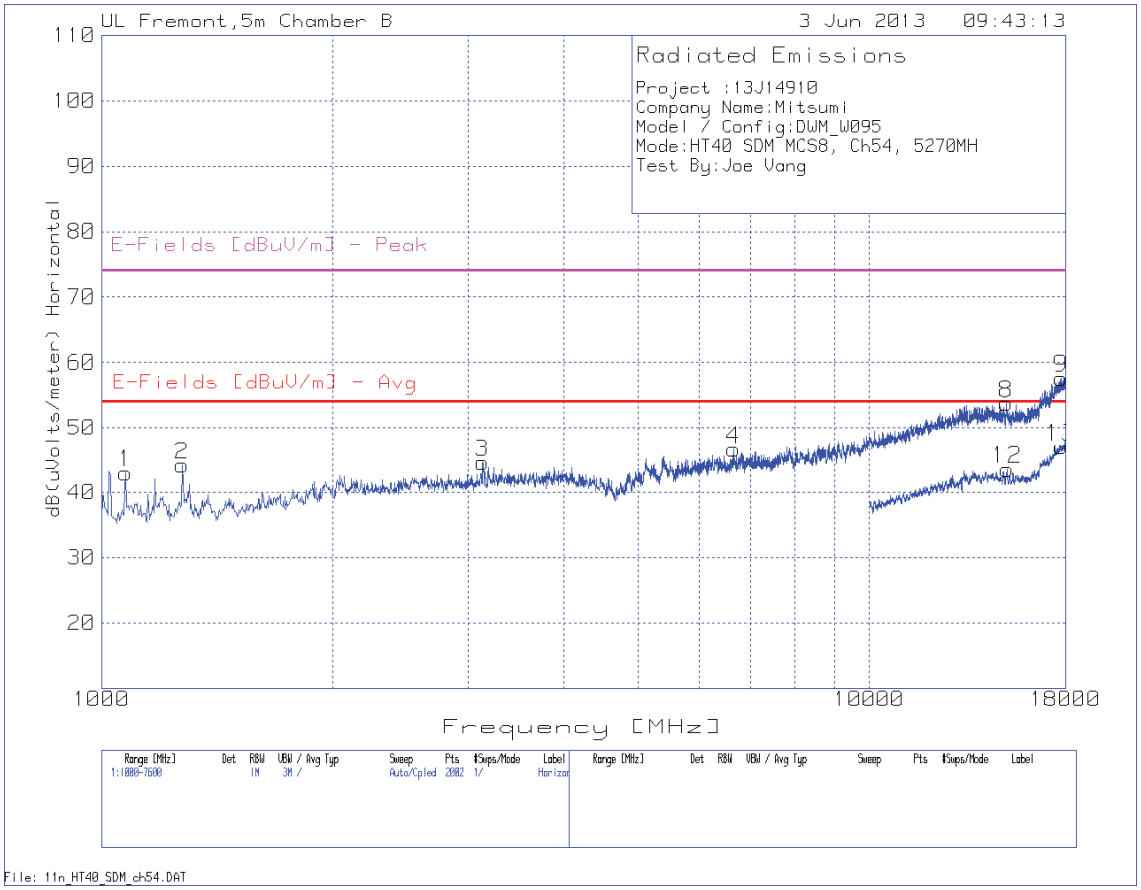
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL GRAPH

HORIZONTAL



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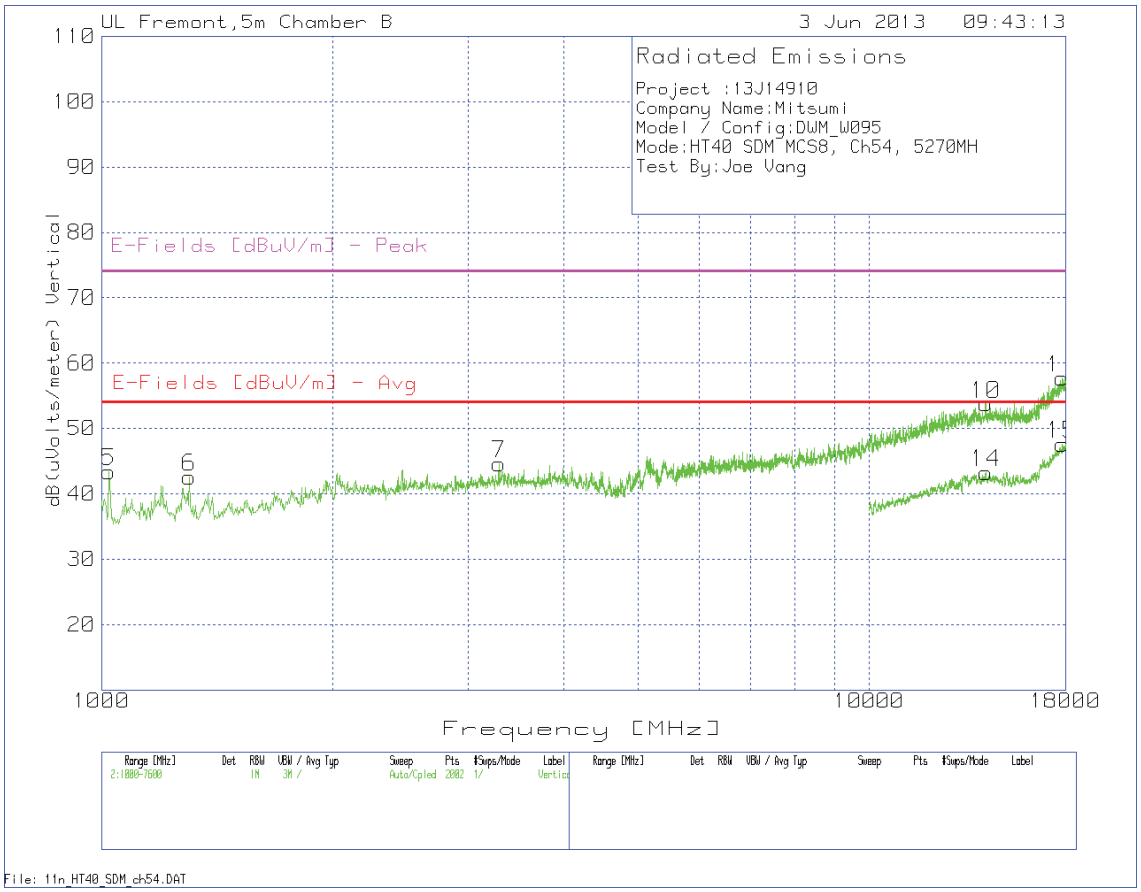
VERTICAL



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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

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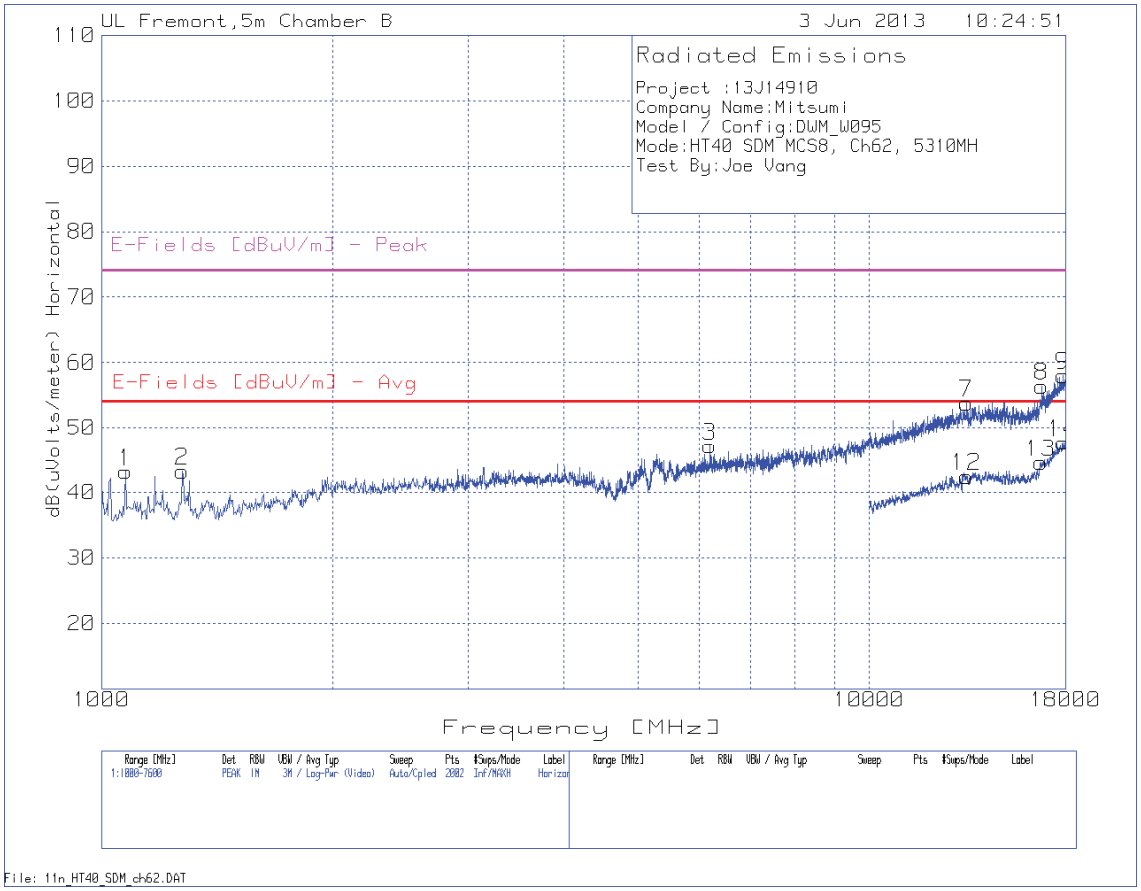
HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL GRAPH

HORIZONTAL



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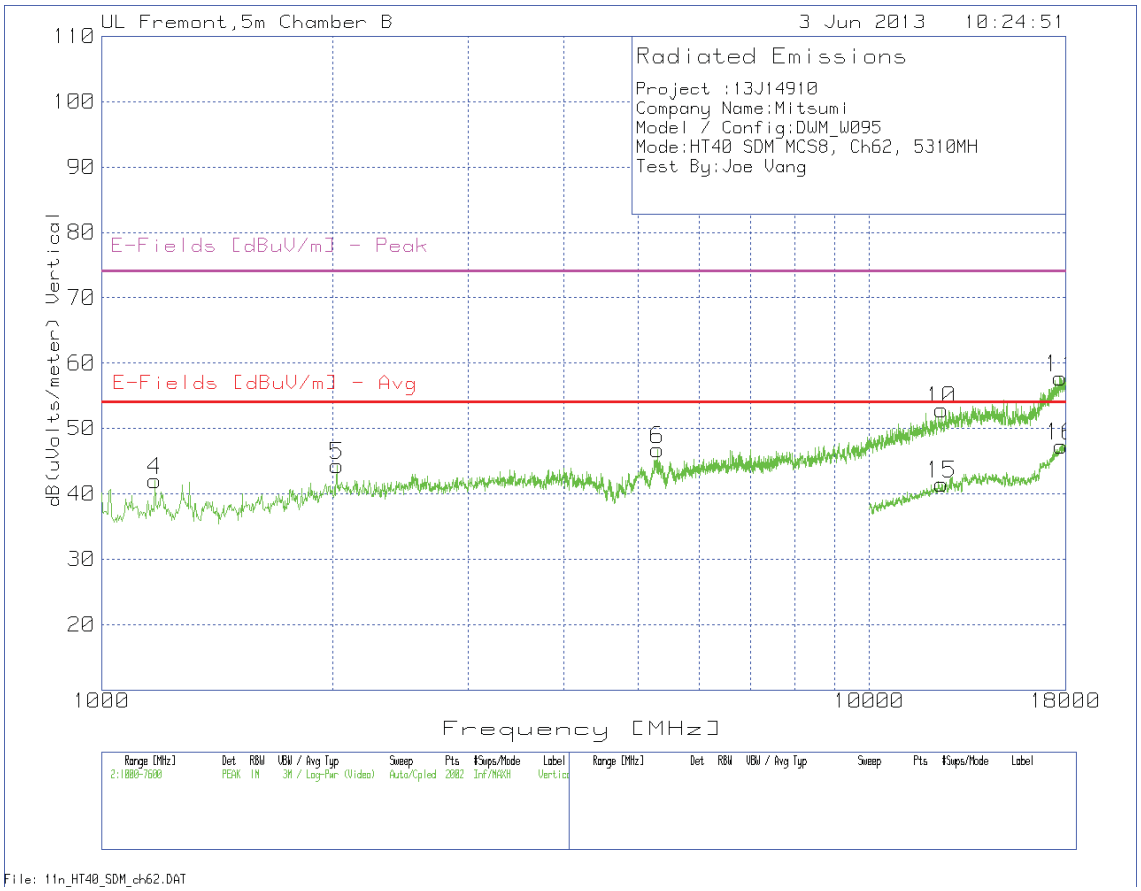
VERTICAL



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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

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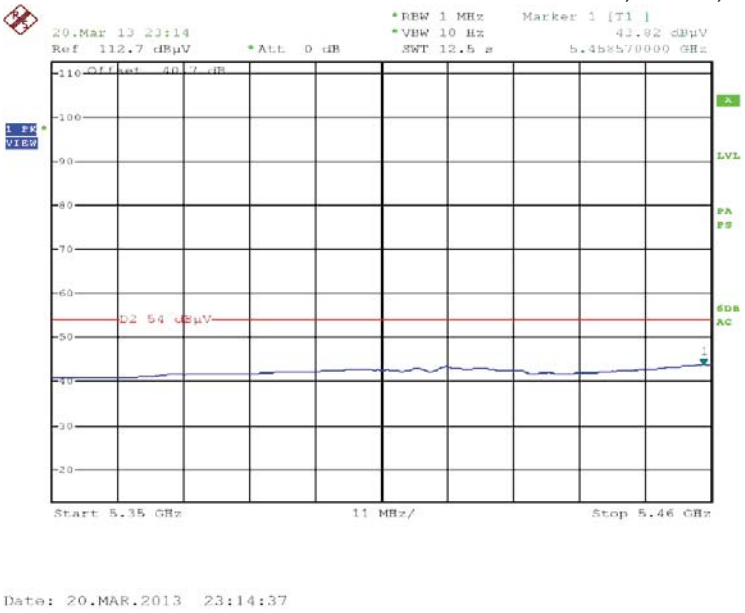
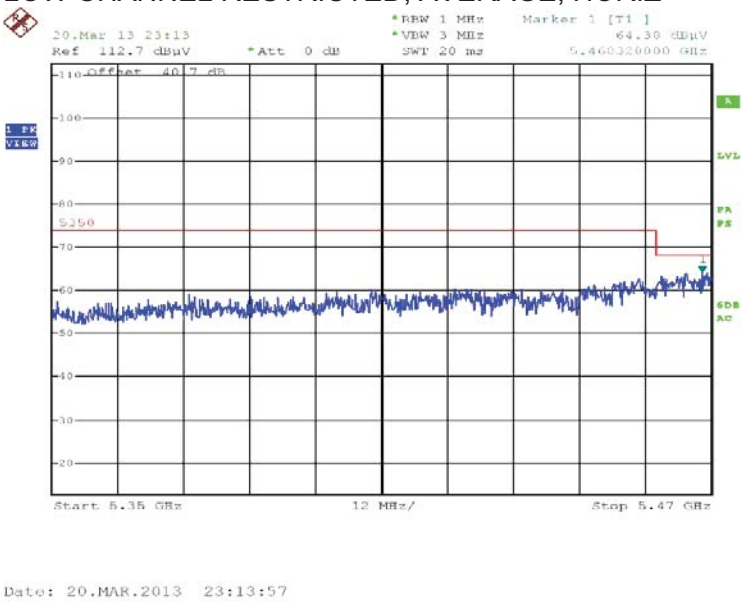
9.12. 802.11a CDD 6Mbps 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



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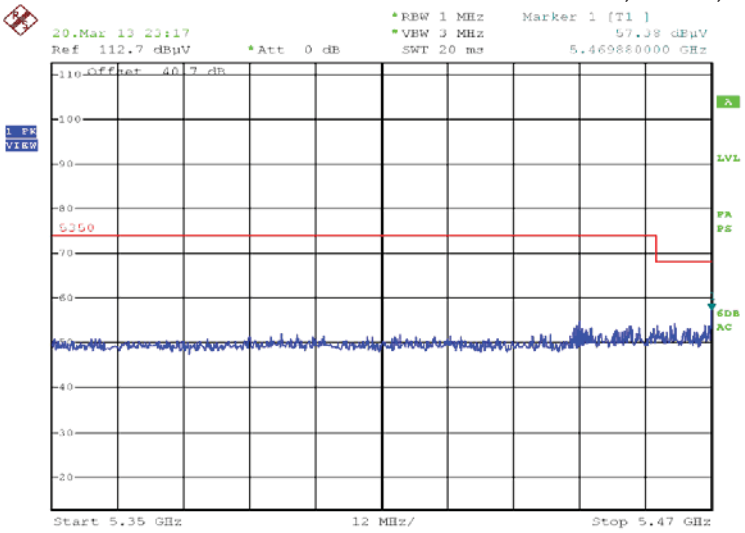
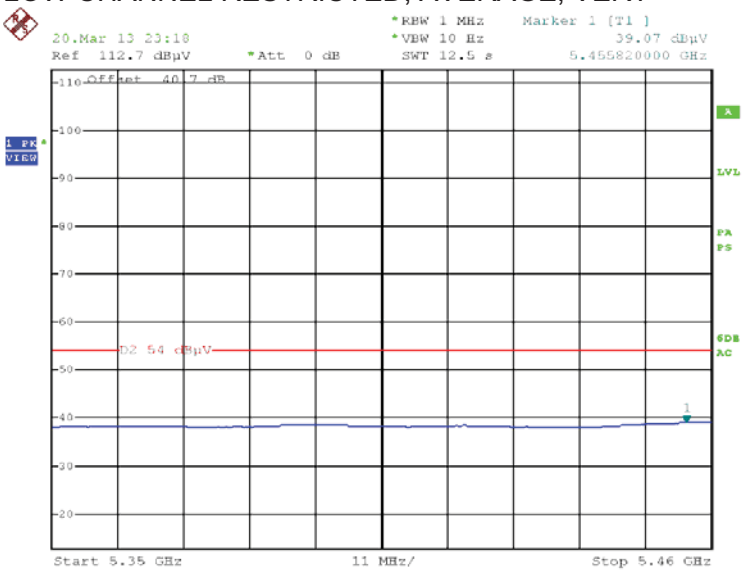
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT



Date: 20.MAR.2013 23:17:08

LOW CHANNEL RESTRICTED, AVERAGE, VERT



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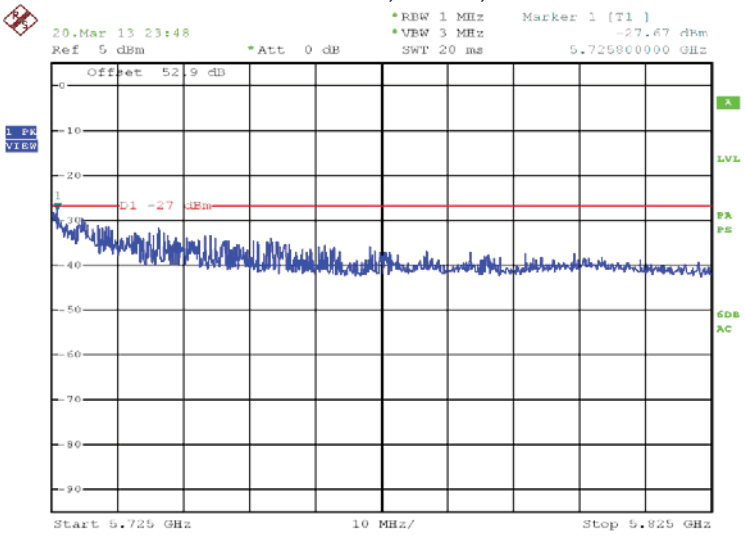
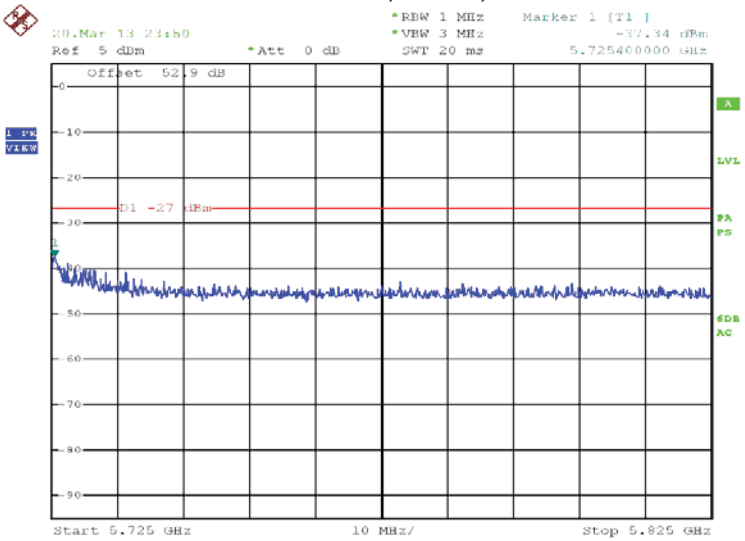
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ



Date: 20.MAR.2013 23:48:05

HIGH CHANNEL BANDEDGE, PEAK, VERT



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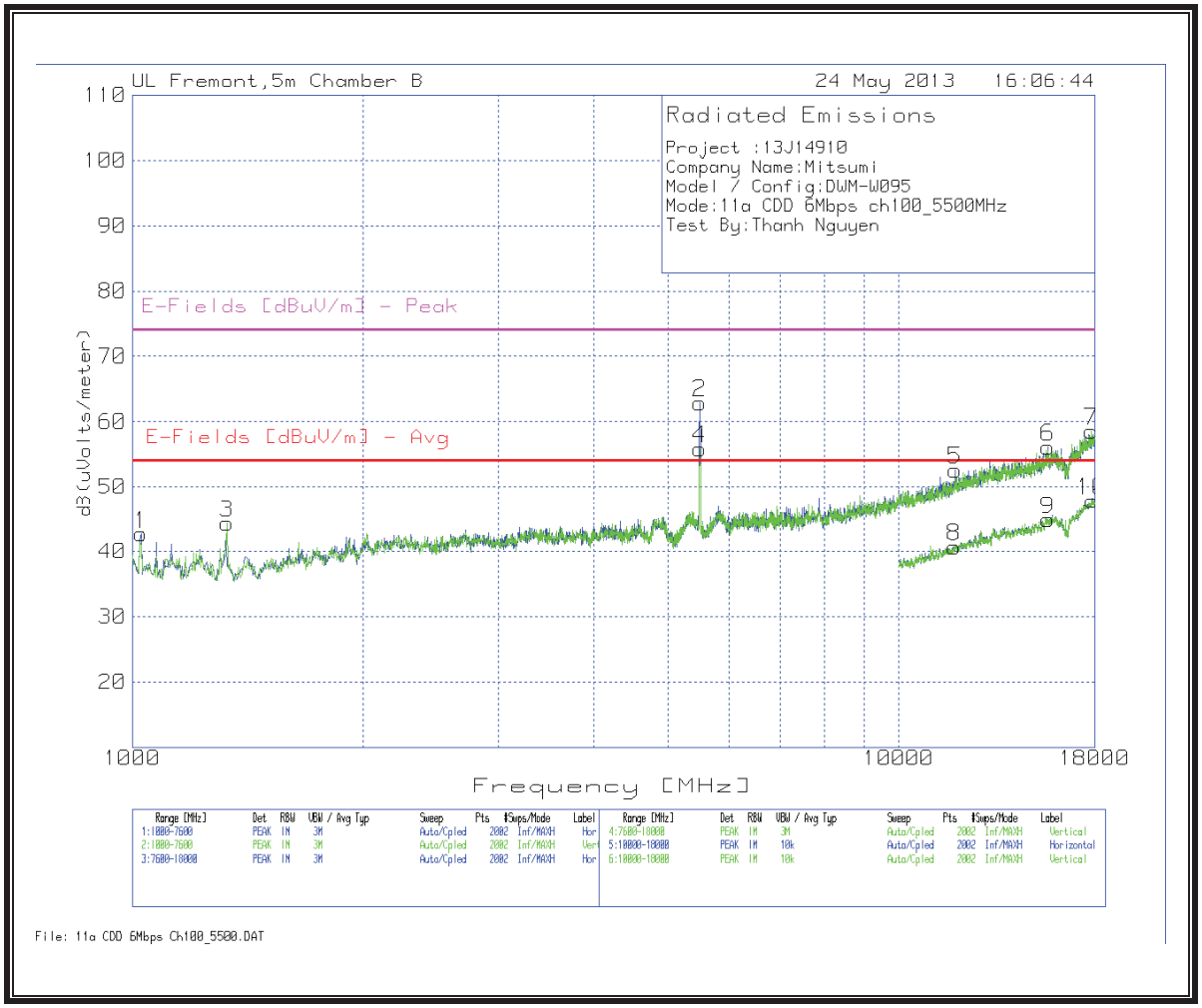
HARMONICS AND SPURIOUS EMISSIONS

Low Channel



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47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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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]	T145 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]	T145 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]	T145 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]	T145 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]	T145 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]	T145 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

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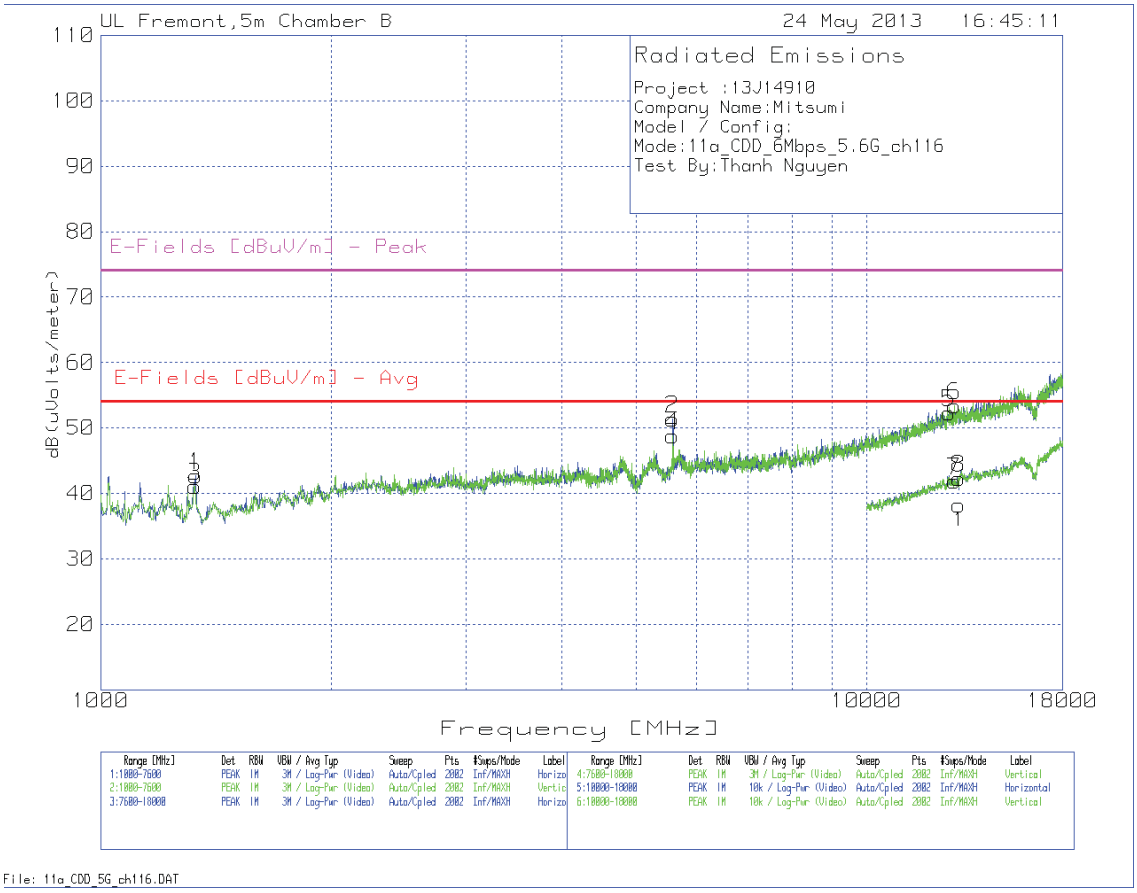
Mid Channel



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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]	T145 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]	T145 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]	T145 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]	T145 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]	T145 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]	T145 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

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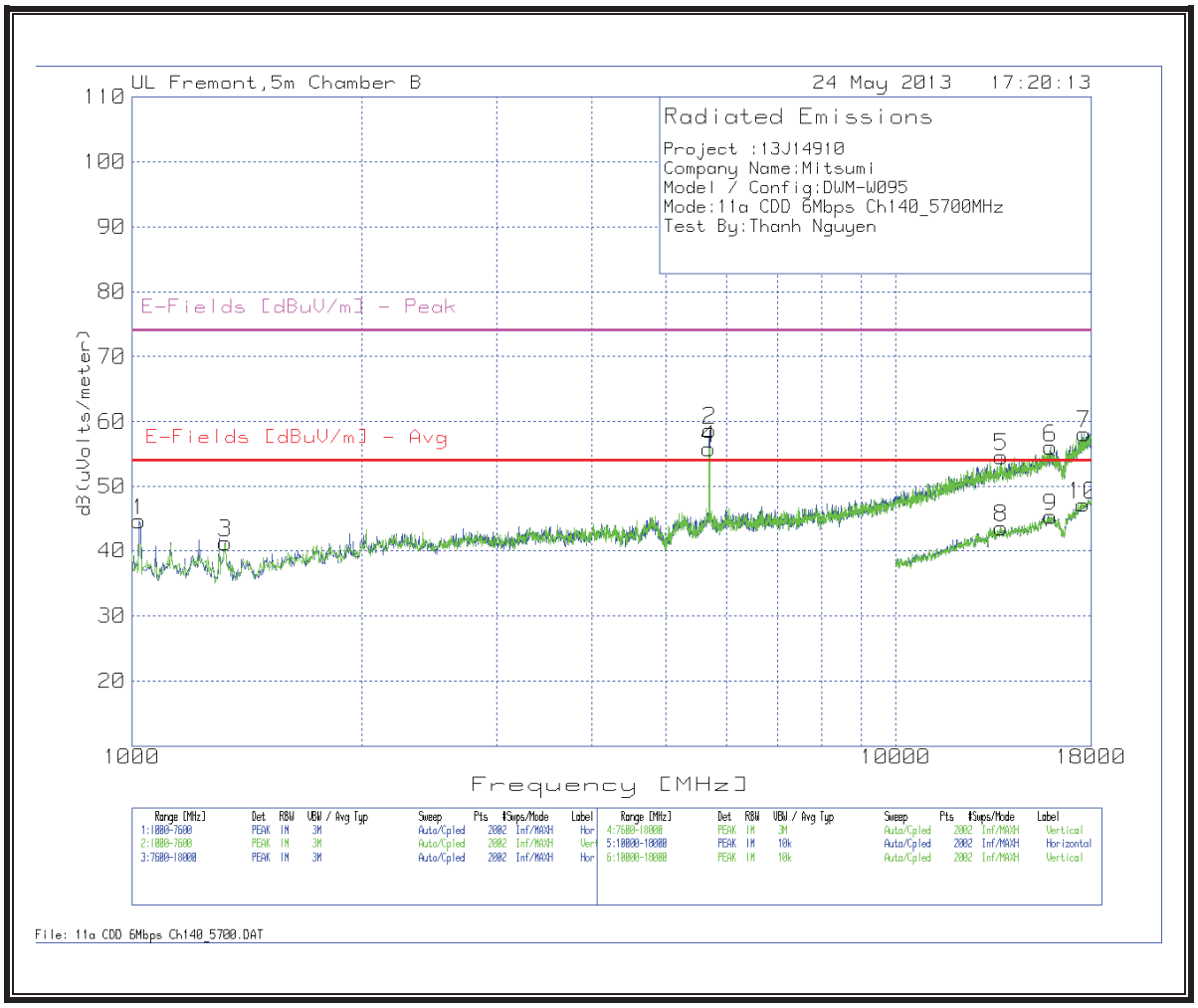
High Channel



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HIGH CHANNEL 140 DATA

Project :13J14910
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

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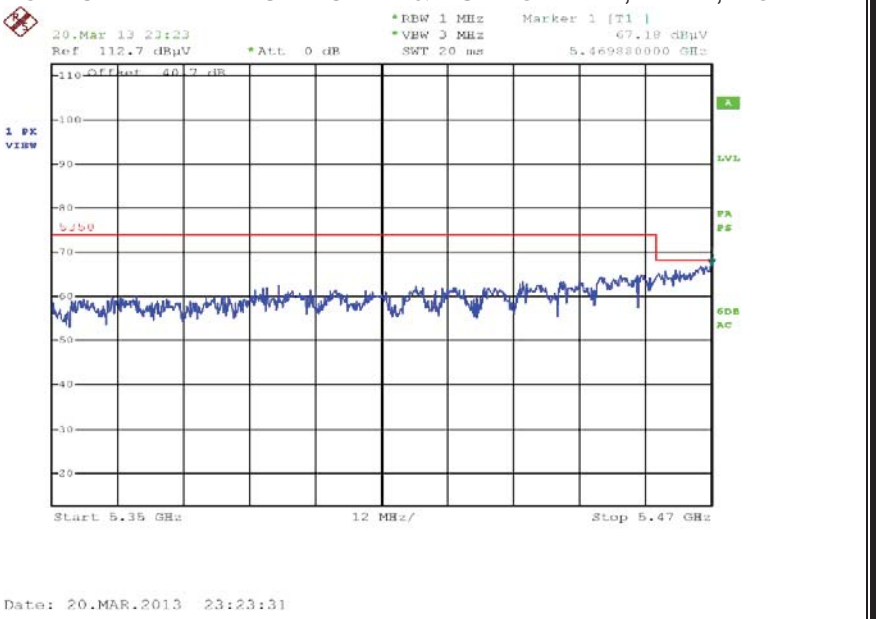
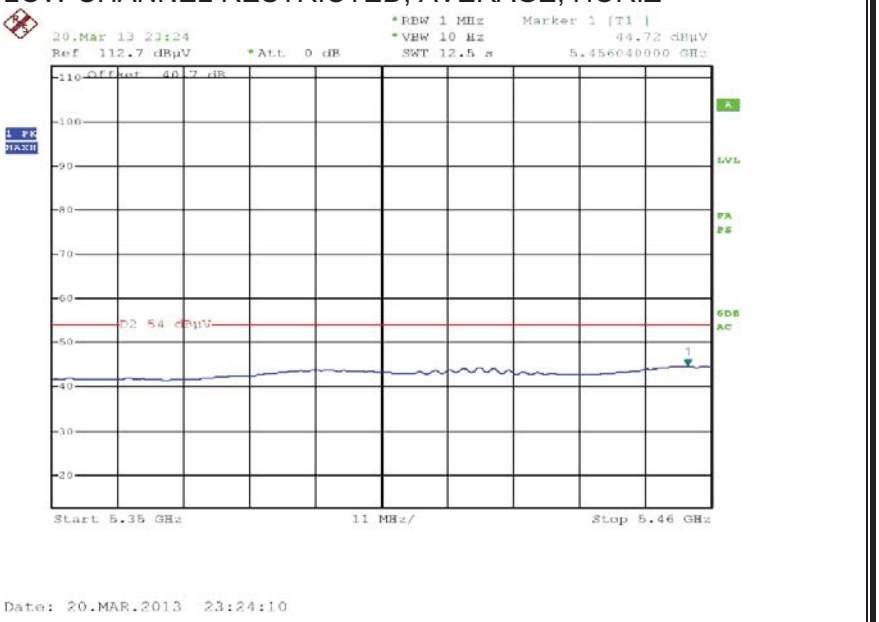
9.13. 802.11n HT20 CDD MCS0 2TX MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



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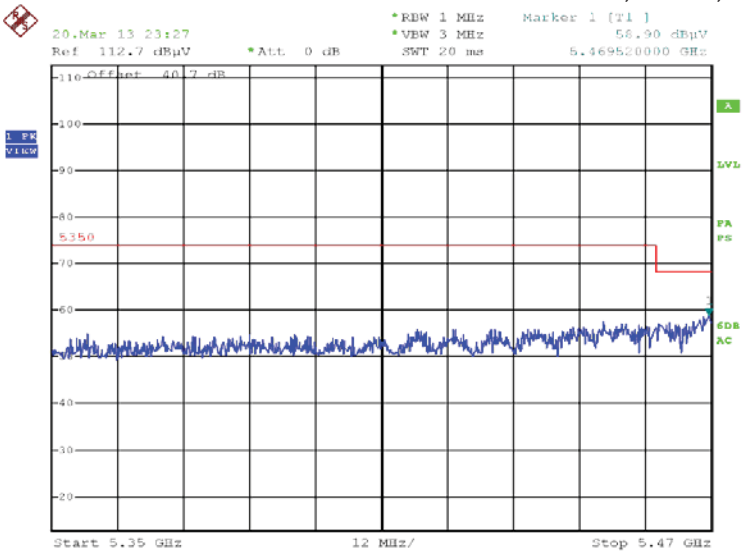
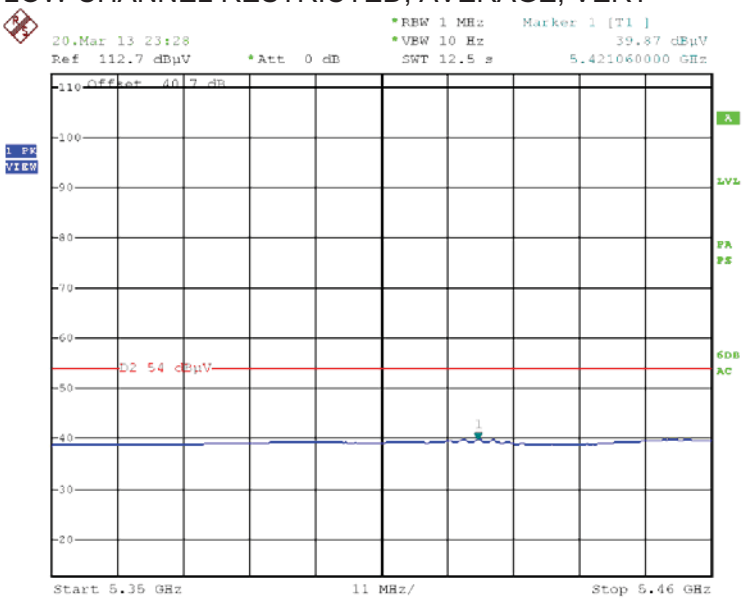
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT



Date: 20.MAR.2013 23:27:35

LOW CHANNEL RESTRICTED, AVERAGE, VERT



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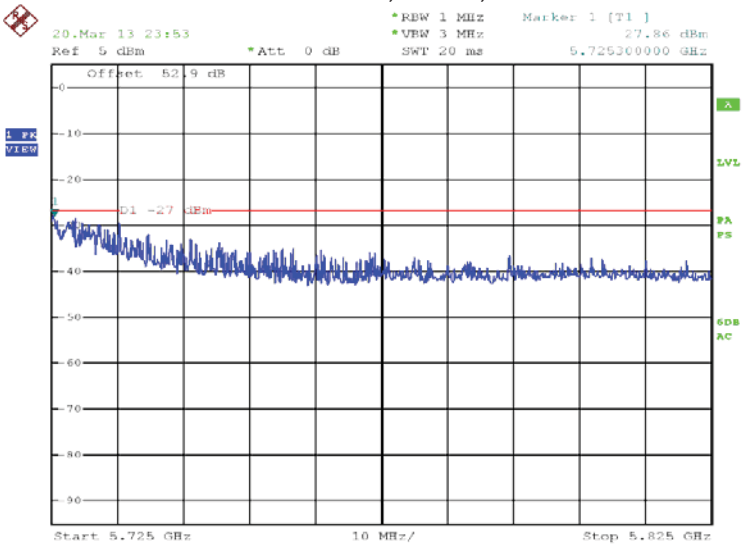
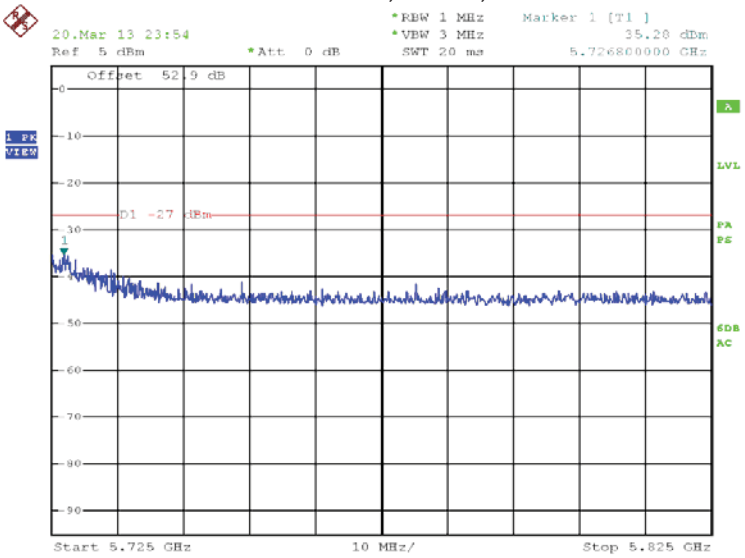
AUTHORIZED BANDEDGE (HIGH CHANNEL

HIGH CHANNEL BANDEDGE, PEAK, HORIZ



Date: 20.MAR.2013 23:53:36

HIGH CHANNEL BANDEDGE, PEAK, VERT



Date: 20.MAR.2013 23:54:20

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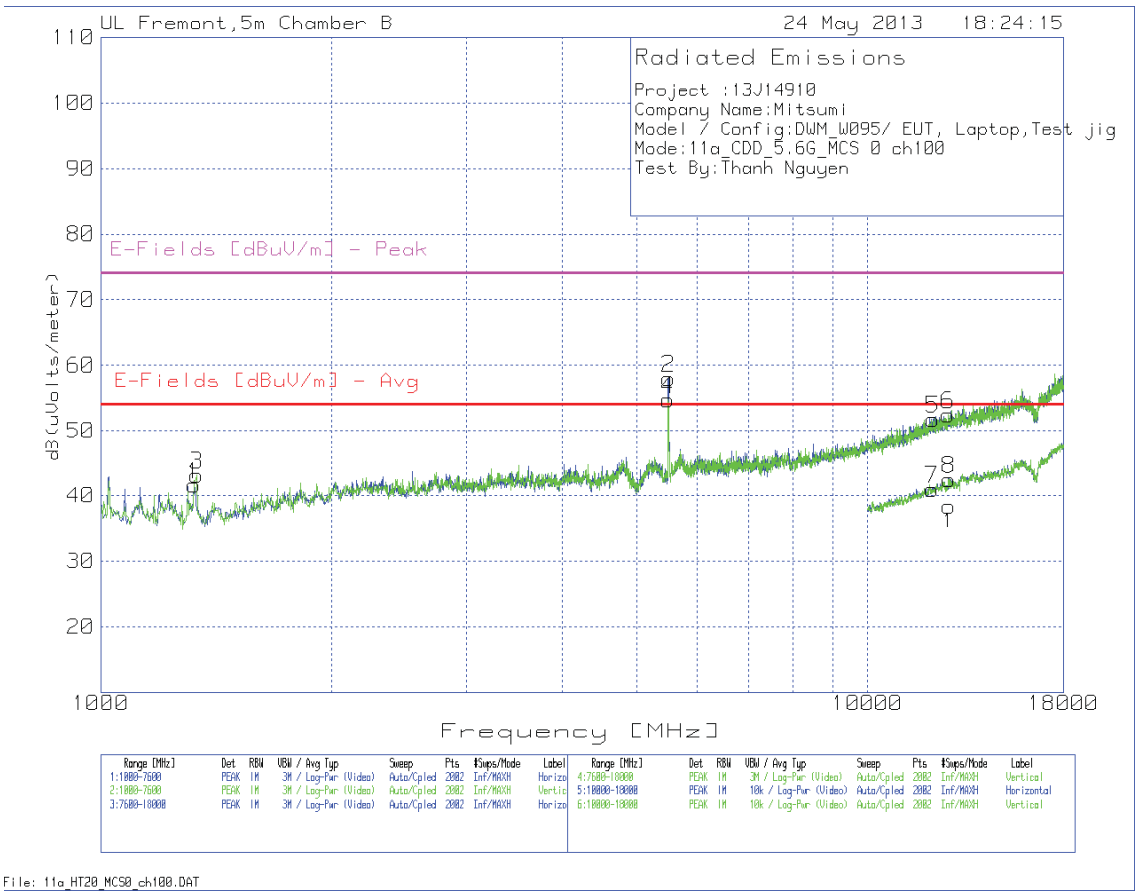
HARMONICS AND SPURIOUS EMISSIONS

Low Channel



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