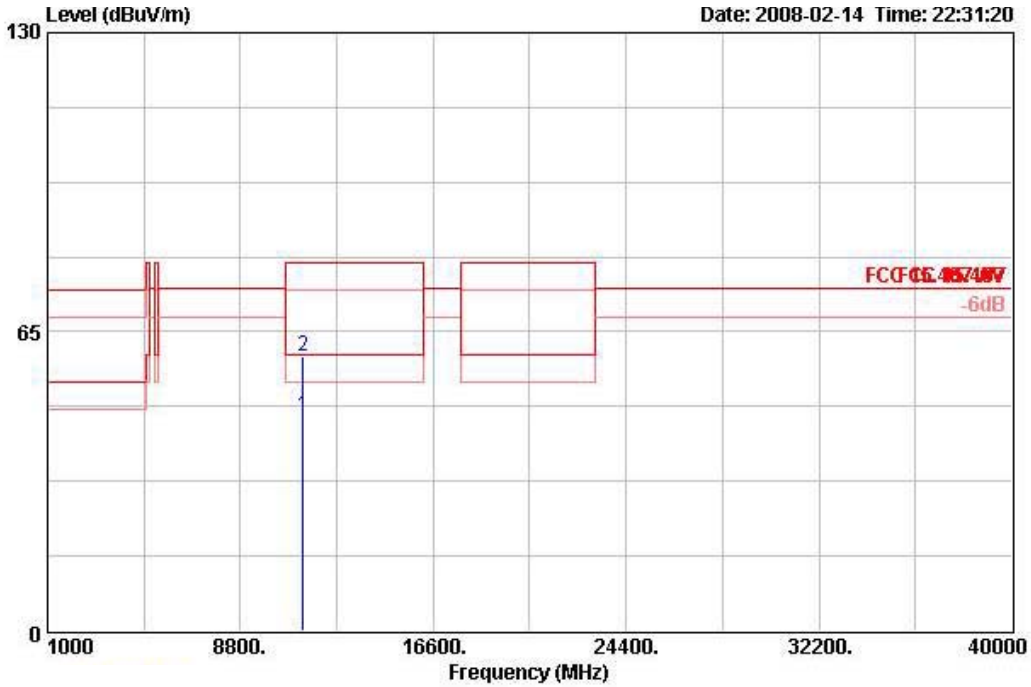
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	11340.420	46.78	-13.22	60.00	31.77	39.01	34.73	10.74	AVERAGE	284	100	VERTICAL
2	11341.860	59.66	-20.34	80.00	44.65	39.01	34.73	10.74	PEAK	284	100	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

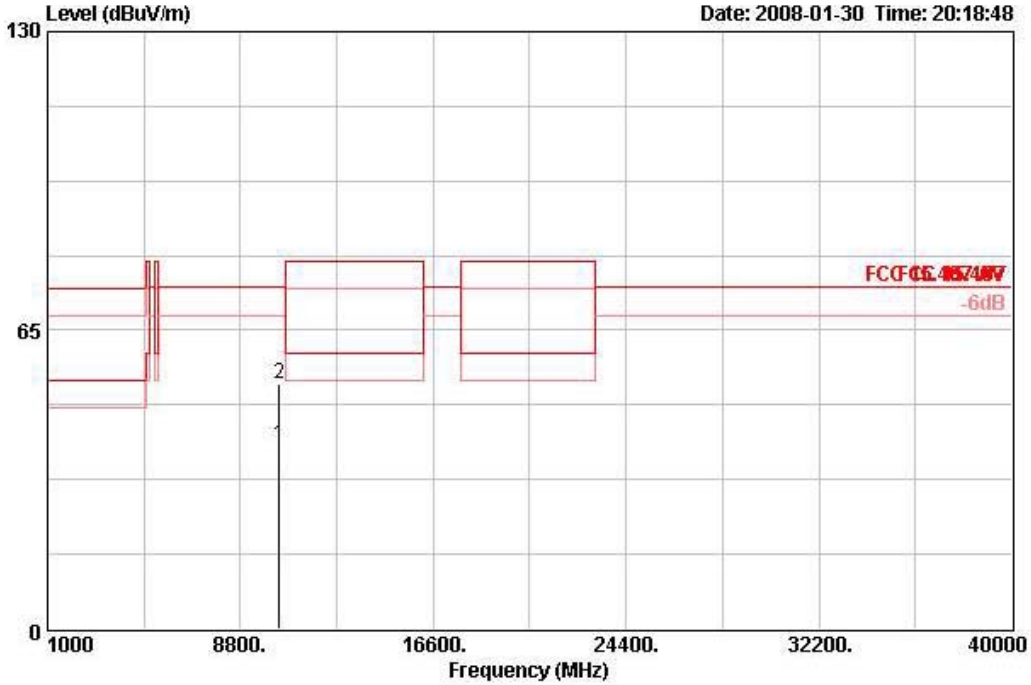
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

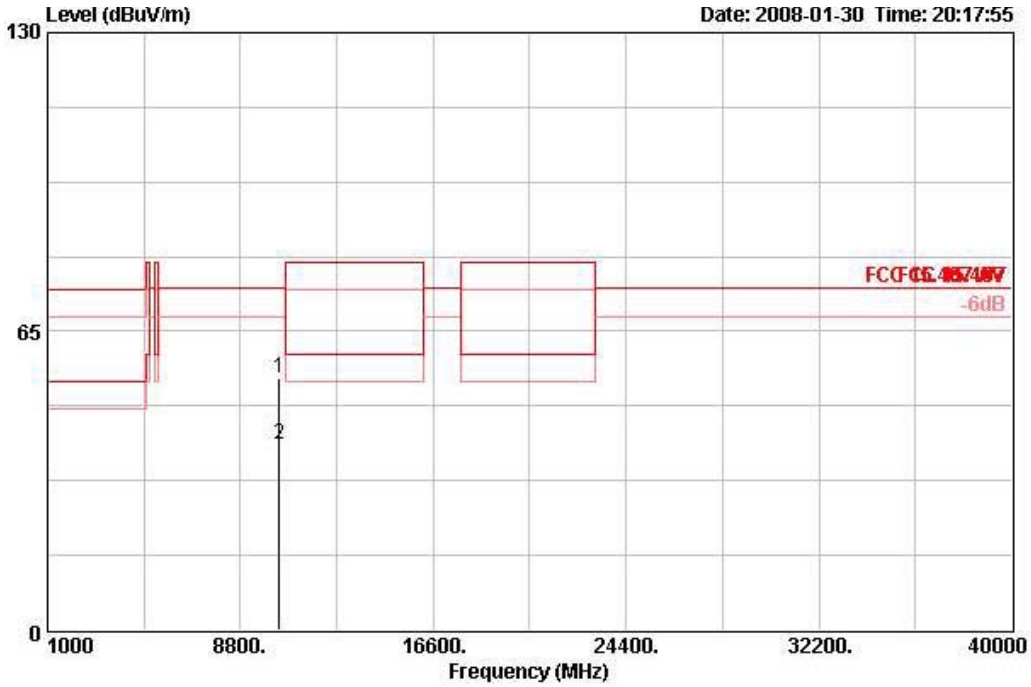
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 36 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
2	10359.840	53.51	-20.79	74.30	40.93	38.37	9.32	35.12	PEAK	139	159	HORIZONTAL

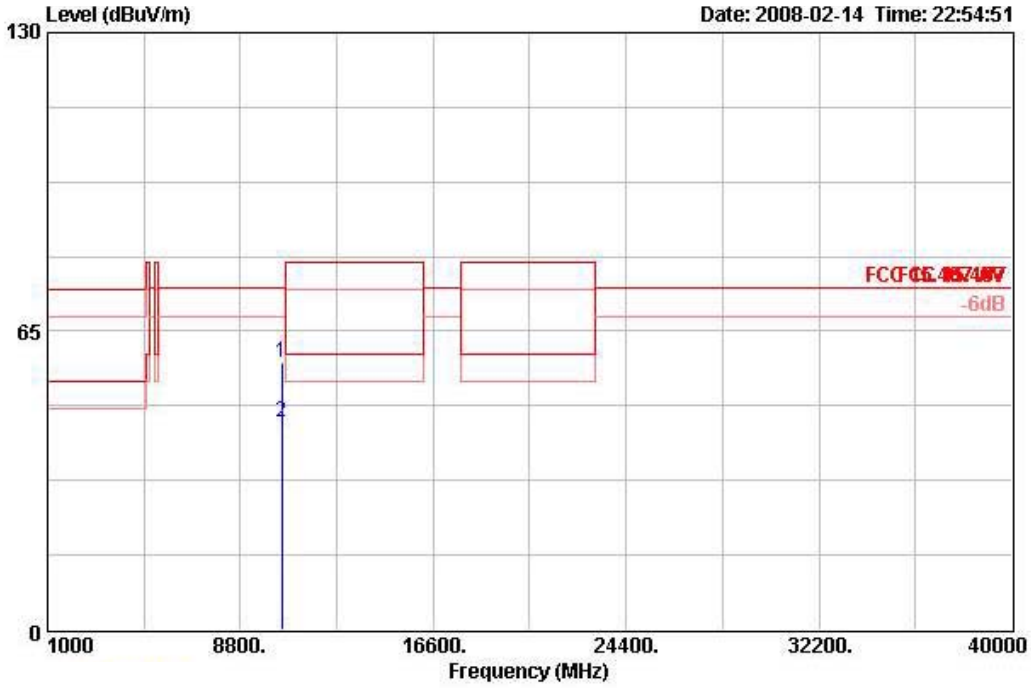
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10361.430	54.65	-19.65	74.30	42.08	38.37	9.32	35.12	PEAK	100	360	VERTICAL

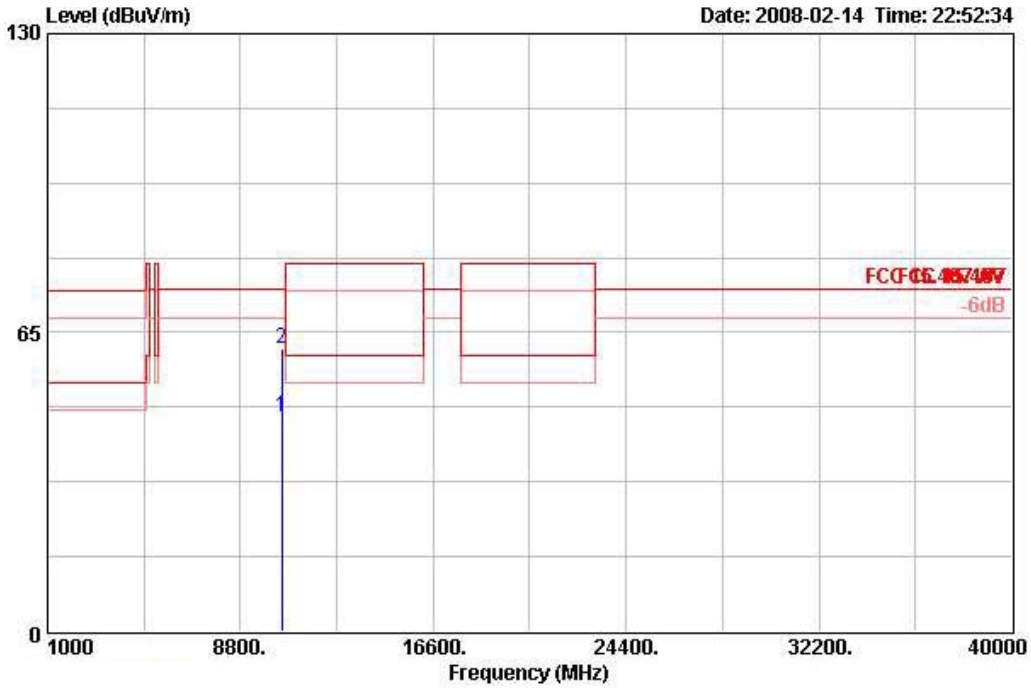
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 40 / Ant. A POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1	10460.800	58.26	-16.04	74.30	44.20	38.99	35.24	10.32	PEAK	281	100	HORIZONTAL

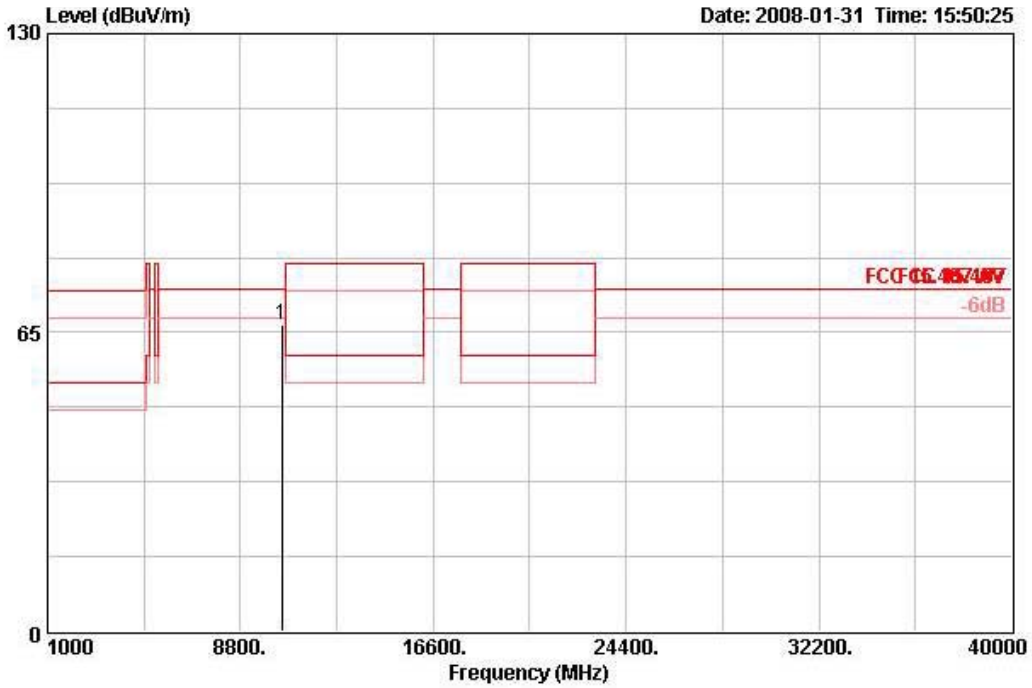
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
2 @	10460.040	61.41	-12.89	74.30	47.35	38.99	35.24	10.32	PEAK	150	100	VERTICAL

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 48 / Ant. B POE Mode (Horizontal)

Horizontal



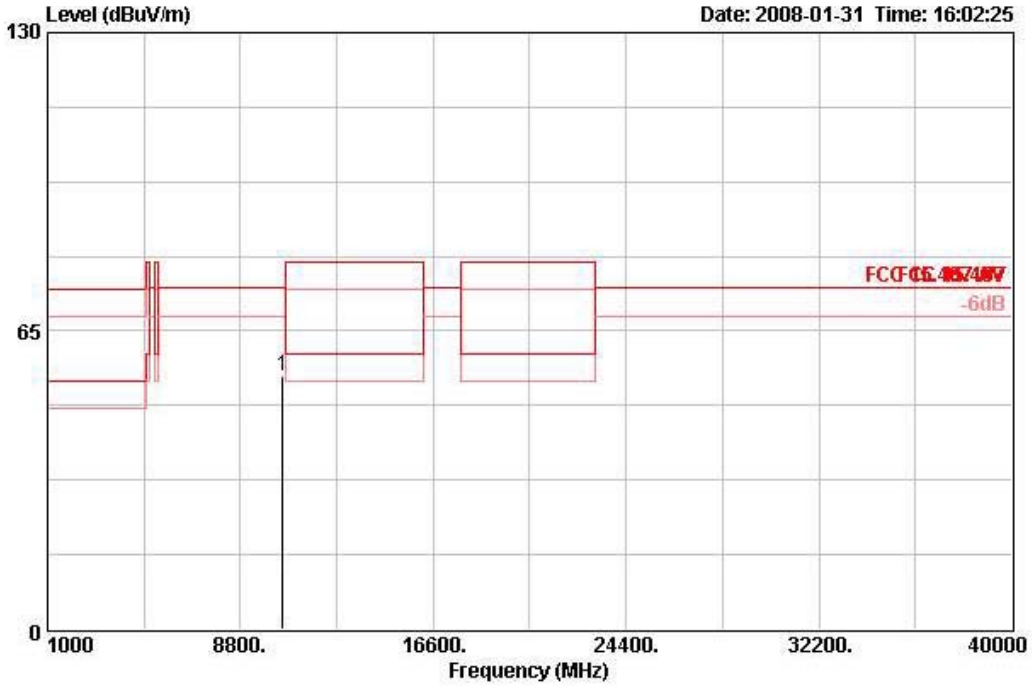
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10479.900	66.50	-7.80	74.30	53.66	38.40	9.41	34.96	PEAK	131	123	HORIZONTAL

Vertical

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	10480.100	69.06	-5.24	74.30	56.21	38.40	9.41	34.96	PEAK	126	101	VERTICAL

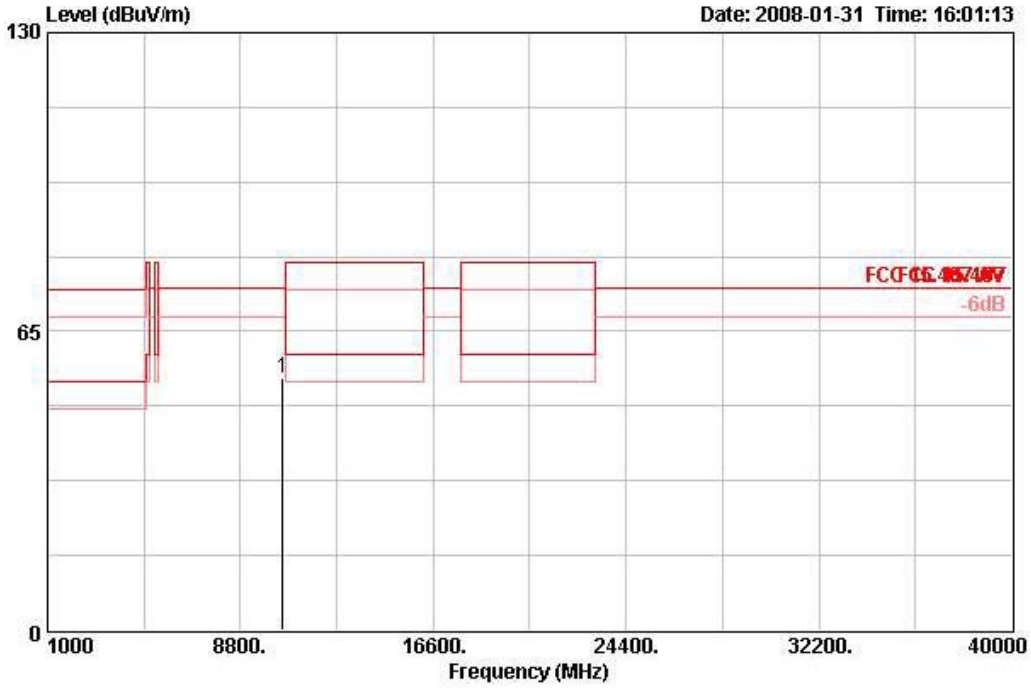
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 52 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10519.830	55.15	-19.15	74.30	42.25	38.40	9.43	34.93	PEAK	100	360	HORIZONTAL

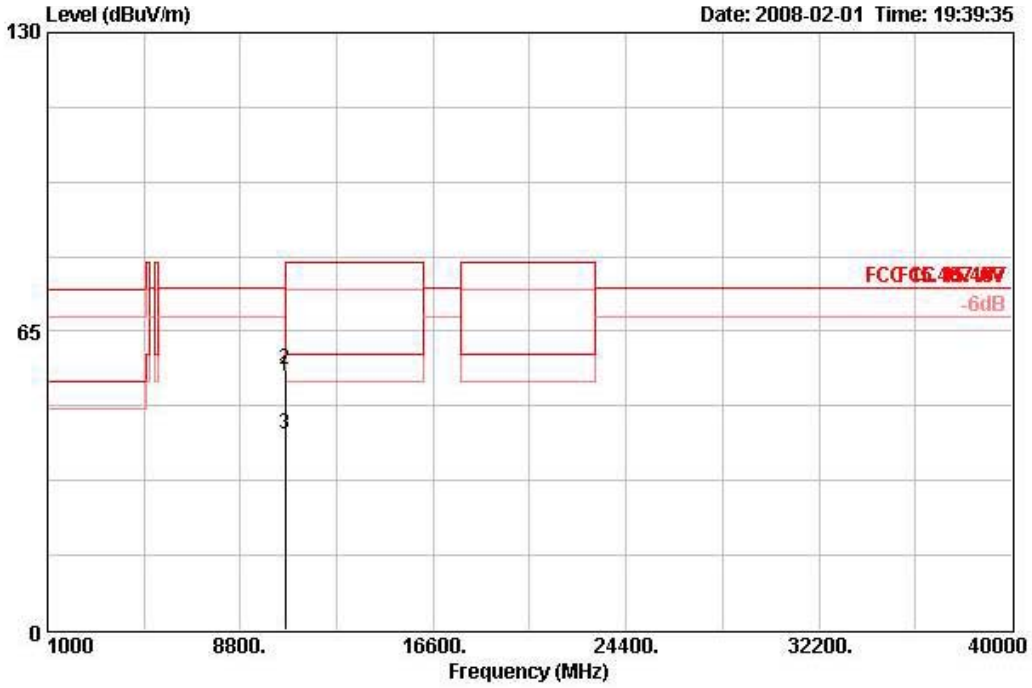
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10517.990	54.79	-19.51	74.30	41.89	38.40	9.43	34.93	PEAK	100	0	VERTICAL

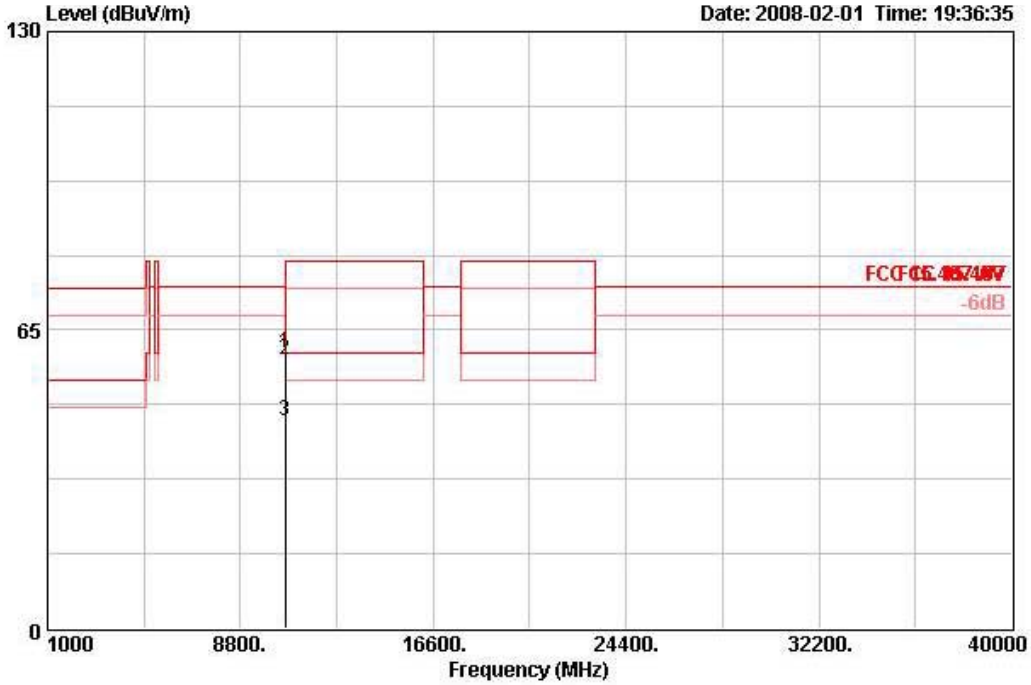
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 60 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10599.000	55.18	-19.12	74.30	42.23	38.38	9.47	34.90	PEAK	100	360	HORIZONTAL
2	10600.250	56.52	-23.48	80.00	43.57	38.38	9.47	34.90	PEAK	100	360	HORIZONTAL
3	10600.870	42.52	-17.48	60.00	29.55	38.38	9.48	34.89	AVERAGE	100	360	HORIZONTAL

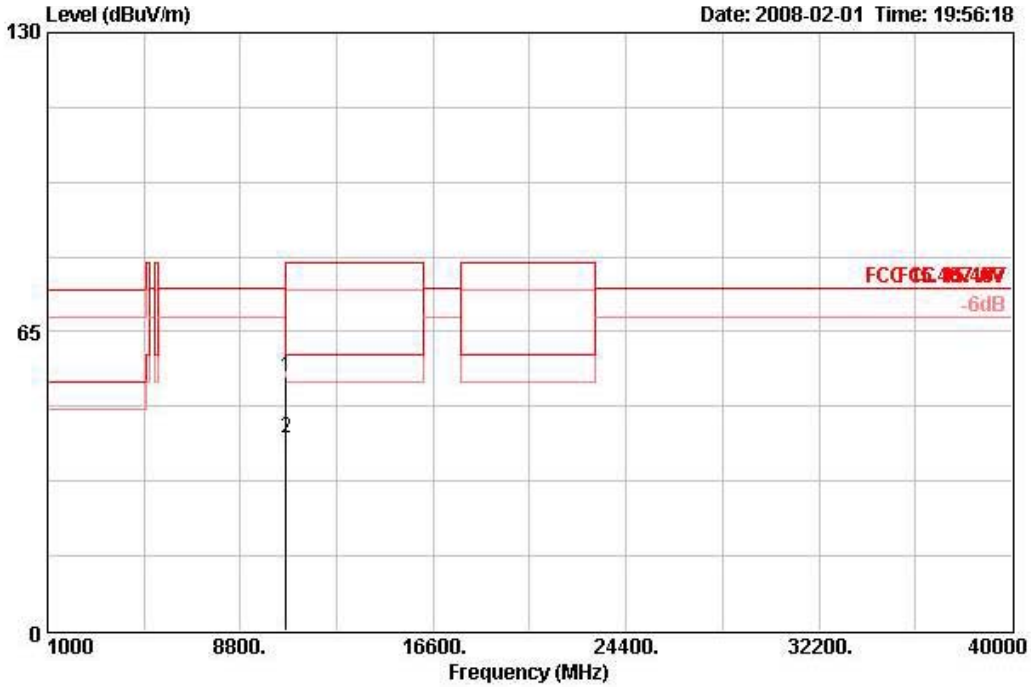
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10599.040	60.03	-14.27	74.30	47.08	38.38	9.47	34.90	PEAK	120	94	VERTICAL
2	10600.000	58.59	-21.41	80.00	45.64	38.38	9.47	34.90	PEAK	120	94	VERTICAL
3	10601.300	45.36	-14.64	60.00	32.38	38.38	9.48	34.89	AVERAGE	120	94	VERTICAL

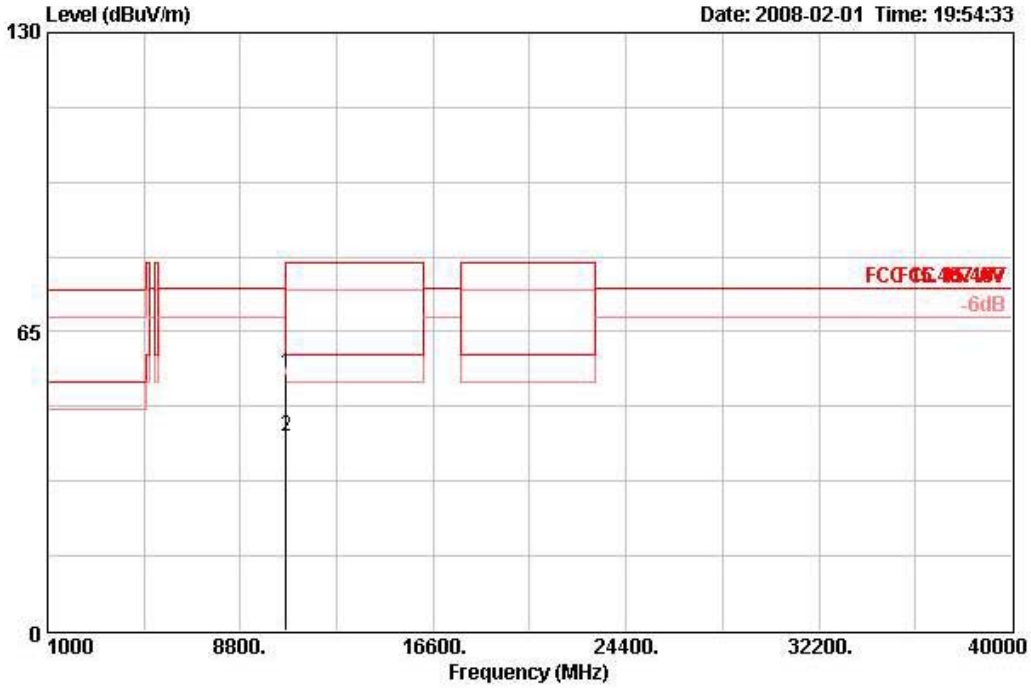
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 64 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10642.050	55.21	-24.79	80.00	42.22	38.37	9.50	34.88	PEAK	100	360	HORIZONTAL
2	10642.480	42.01	-17.99	60.00	29.02	38.37	9.50	34.88	AVERAGE	100	360	HORIZONTAL

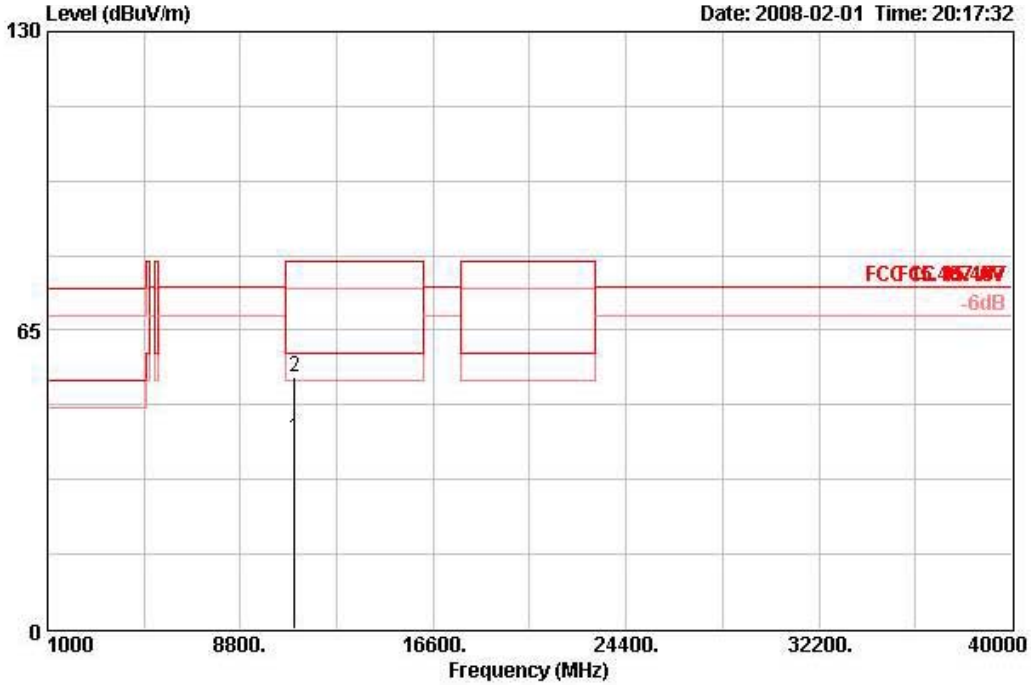
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10639.000	55.77	-24.23	80.00	42.78	38.37	9.50	34.88	PEAK	100	0	VERTICAL
2	10639.990	42.11	-17.89	60.00	29.12	38.37	9.50	34.88	AVERAGE	100	0	VERTICAL

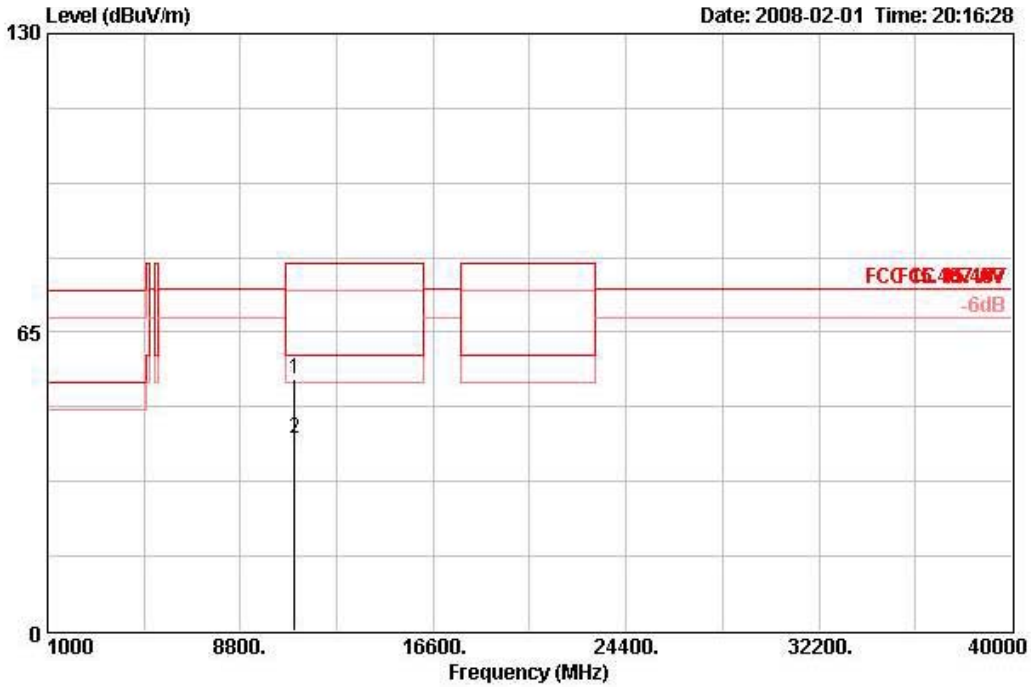
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 100 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11001.350	41.49	-18.51	60.00	28.25	38.30	9.69	34.76	AVERAGE	100	0	HORIZONTAL
2	11001.610	55.00	-25.00	80.00	41.76	38.30	9.69	34.76	PEAK	100	0	HORIZONTAL

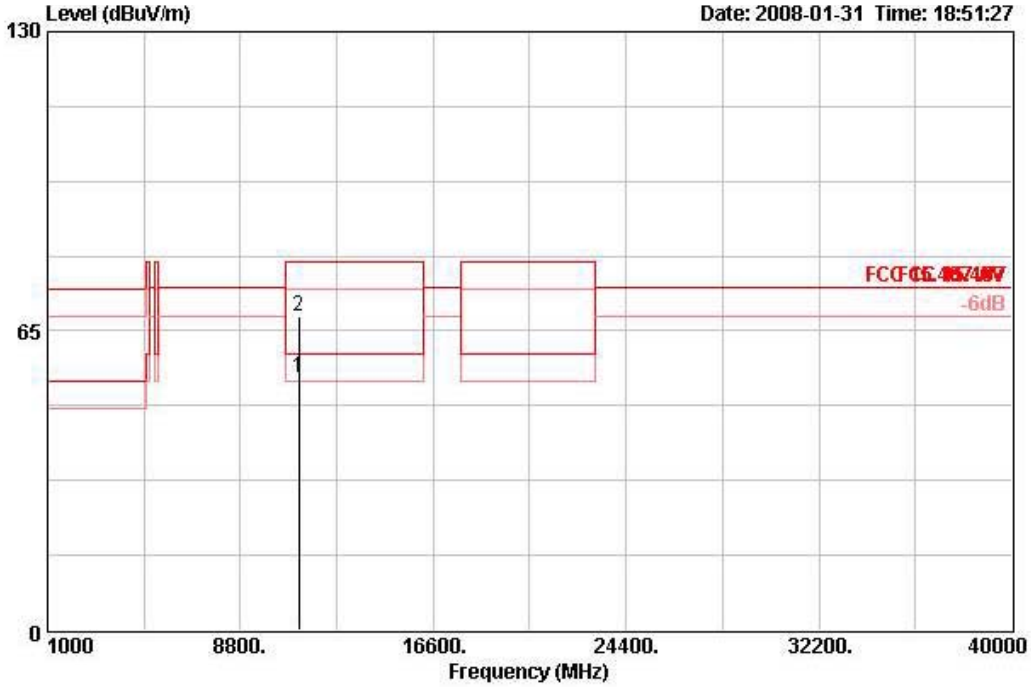
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	11001.190	54.87	-5.13	60.00	41.64	38.30	9.69	34.76	AVERAGE	100	360	VERTICAL
2	11001.330	41.69	-18.31	60.00	28.46	38.30	9.69	34.76	AVERAGE	100	360	VERTICAL

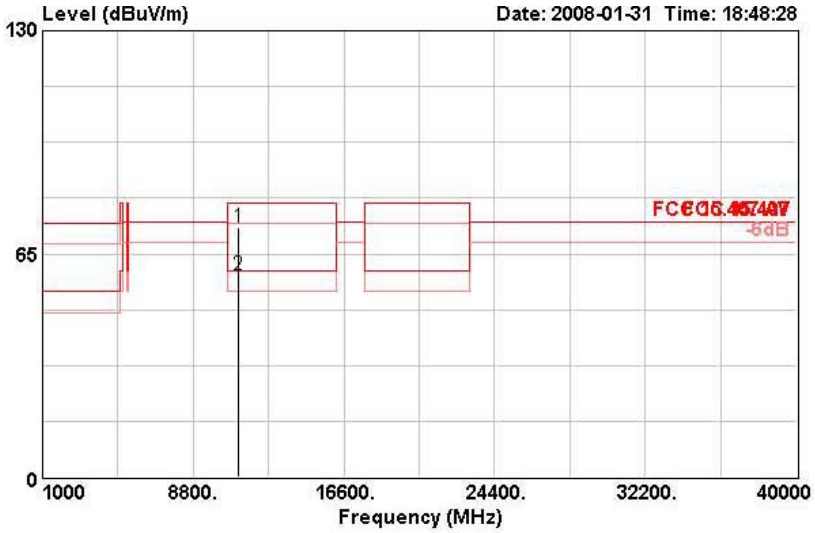
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 116 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	11156.300	54.74	-5.26	60.00	41.40	38.45	9.72	34.83	AVERAGE	125	143	HORIZONTAL
2	11160.300	67.97	-12.03	80.00	54.62	38.47	9.72	34.83	PEAK	125	143	HORIZONTAL

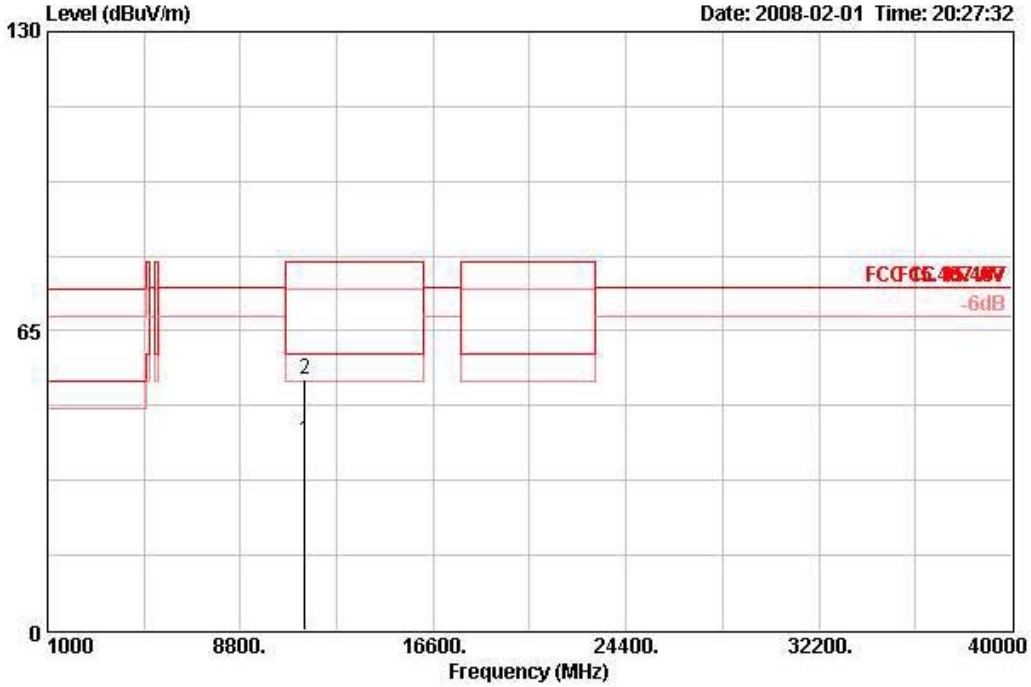
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11156.700	72.54	-7.46	80.00	59.20	38.45	9.72	34.83	PEAK	119	103	VERTICAL
2 @	11159.300	58.72	-1.28	60.00	45.36	38.47	9.72	34.83	Average	119	103	VERTICAL

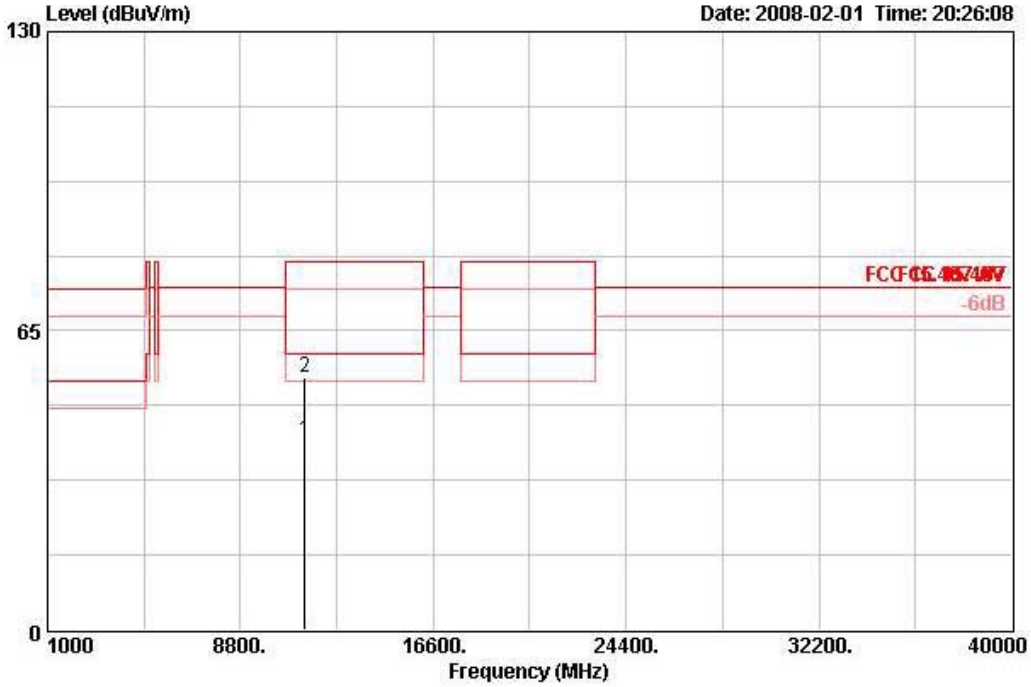
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 140 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11398.420	41.19	-18.81	60.00	27.67	38.70	9.76	34.95	AVERAGE	100	360	HORIZONTAL
2	11401.360	54.57	-25.43	80.00	41.06	38.70	9.76	34.95	PEAK	100	360	HORIZONTAL

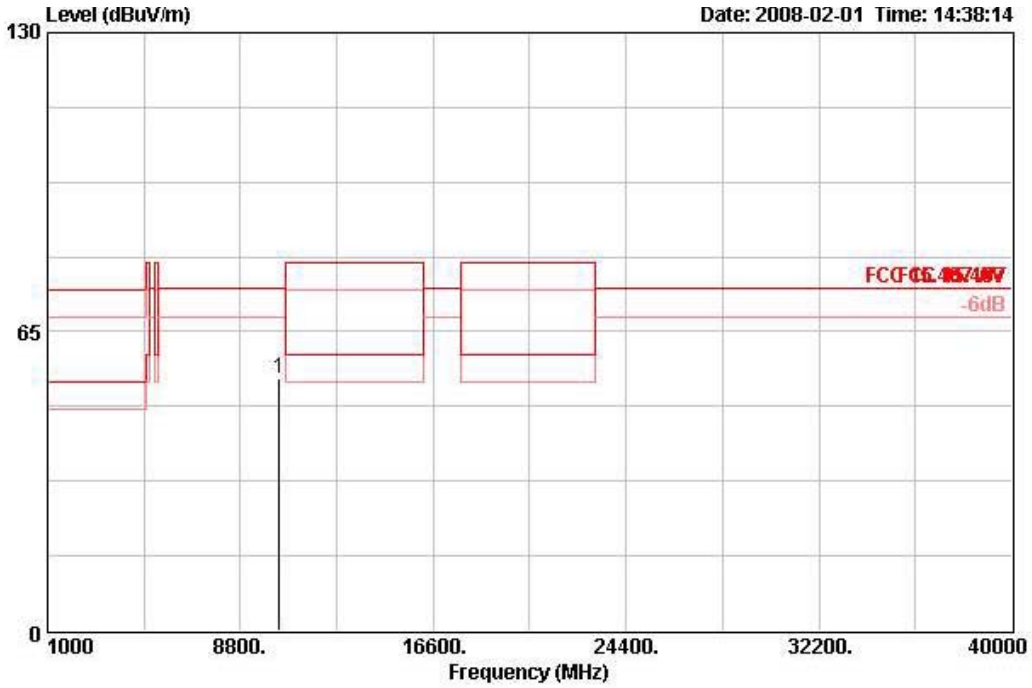
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11398.220	41.27	-18.73	60.00	27.75	38.70	9.76	34.95	AVERAGE	100	219	VERTICAL
2	11398.470	54.81	-25.19	80.00	41.29	38.70	9.76	34.95	PEAK	100	219	VERTICAL

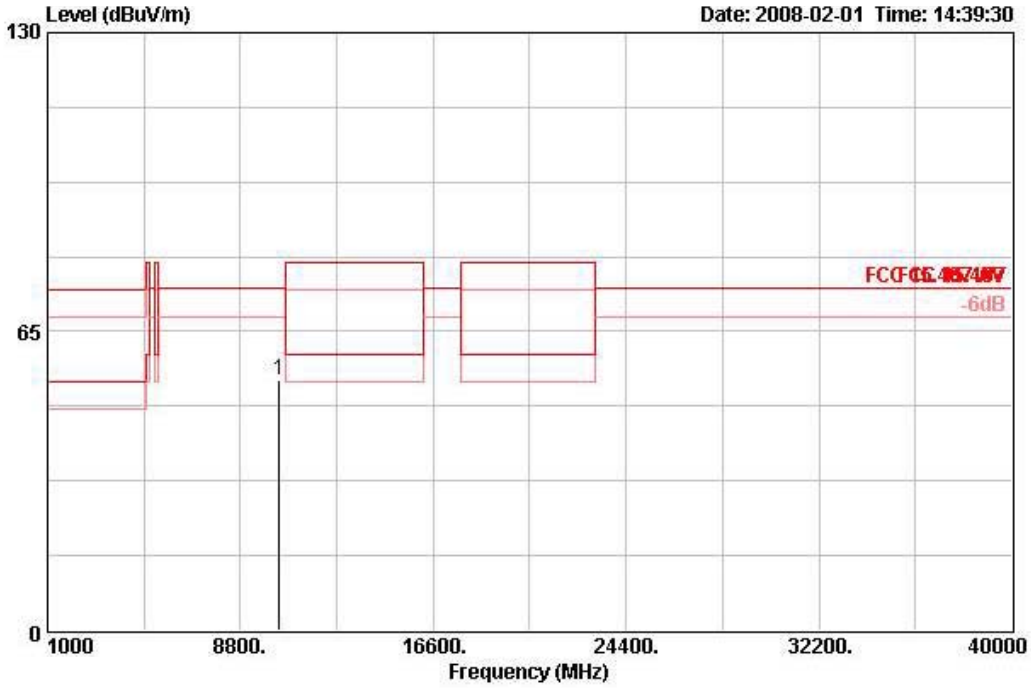
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 38 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10382.240	54.82	-19.48	74.30	42.19	38.38	9.34	35.09	PEAK	100	0	HORIZONTAL

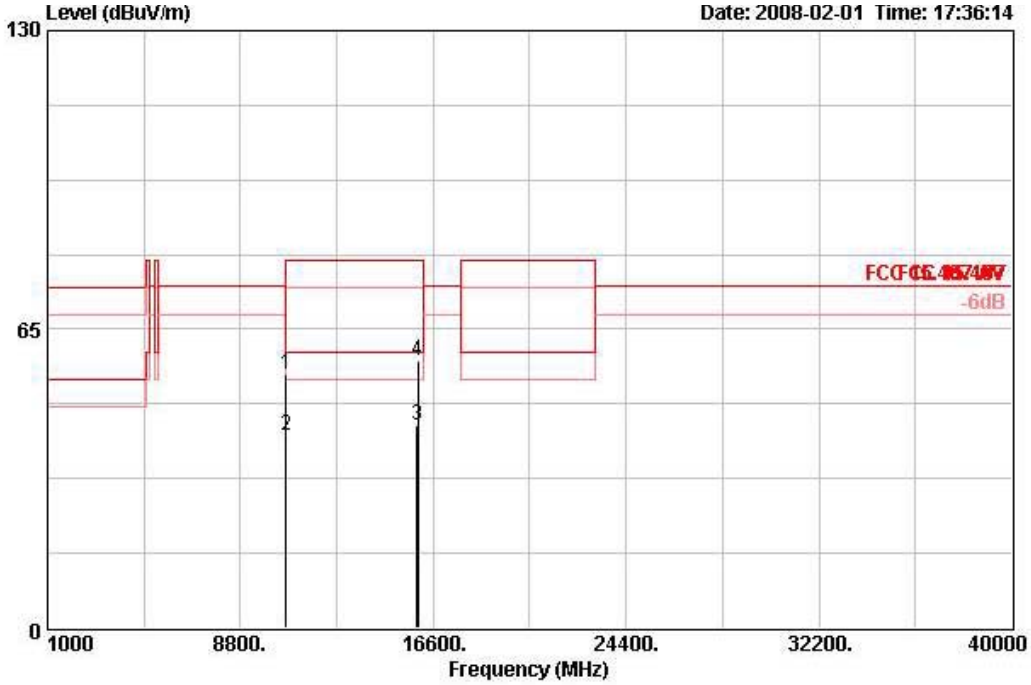
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10379.870	54.51	-19.79	74.30	41.88	38.38	9.34	35.09	PEAK	100	360	VERTICAL

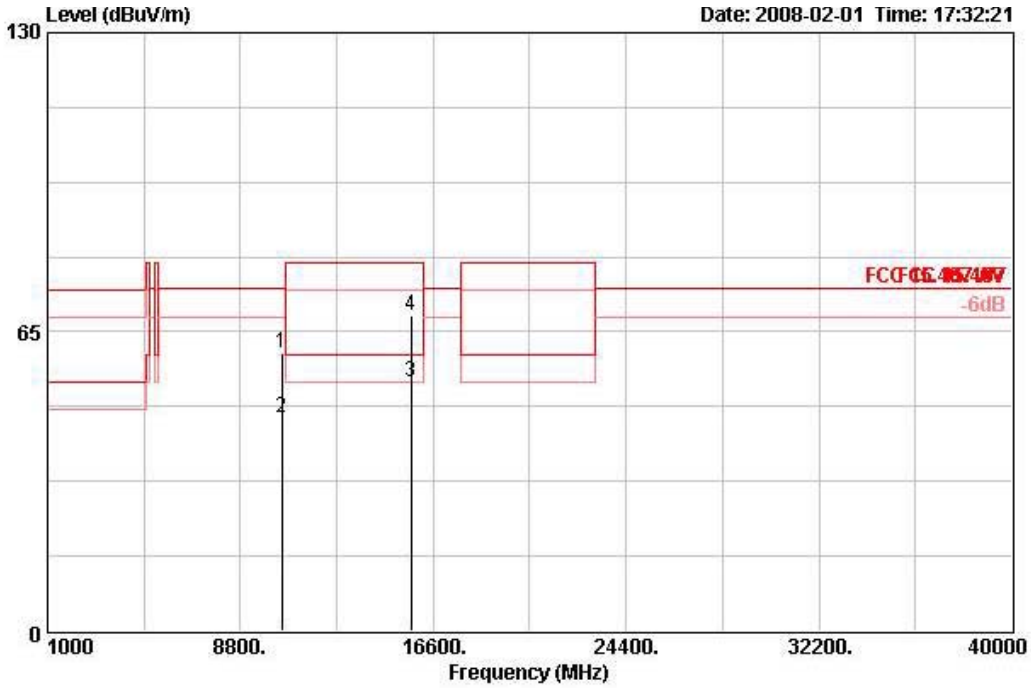
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 46 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10638.240	55.03	-24.97	80.00	42.05	38.37	9.50	34.88	PEAK	100	0	HORIZONTAL
2	10639.990	41.88	-18.12	60.00	28.89	38.37	9.50	34.88	AVERAGE	100	0	HORIZONTAL
3	15959.970	44.15	-15.85	60.00	30.85	37.23	11.50	35.44	AVERAGE	100	360	HORIZONTAL
4	15961.390	58.30	-21.70	80.00	45.00	37.23	11.50	35.44	PEAK	100	360	HORIZONTAL

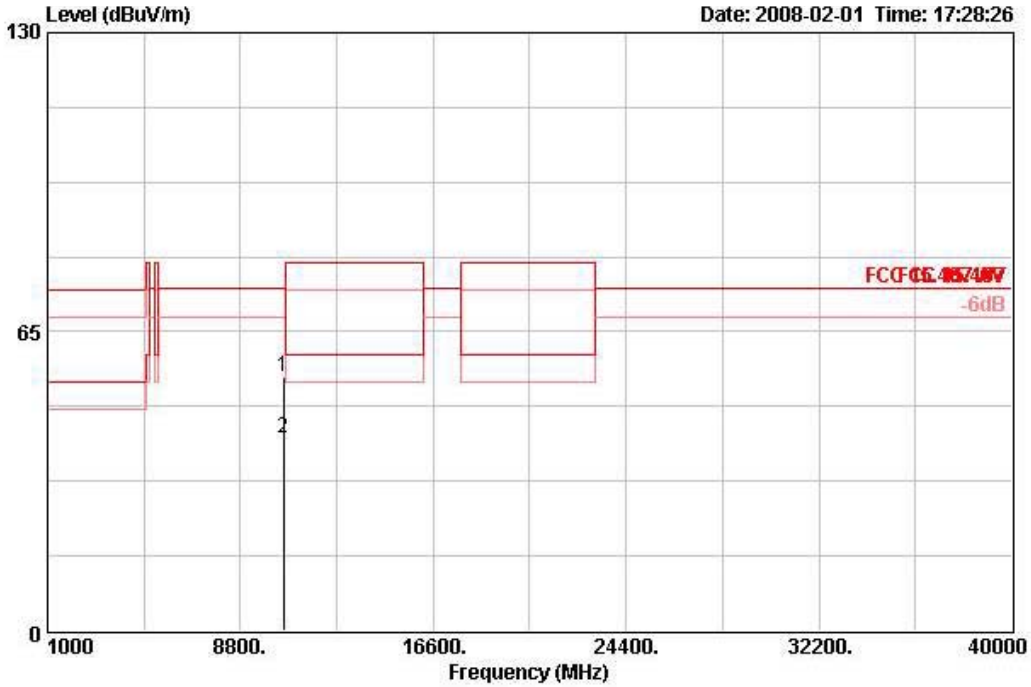
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10460.380	60.40	-13.90	74.30	47.60	38.39	9.39	34.99	PEAK	124	85	VERTICAL
3 !	15690.470	54.09	-5.91	60.00	40.40	37.51	11.51	35.34	AVERAGE	109	284	VERTICAL
4	15691.790	68.69	-11.31	80.00	55.00	37.51	11.51	35.34	PEAK	109	284	VERTICAL

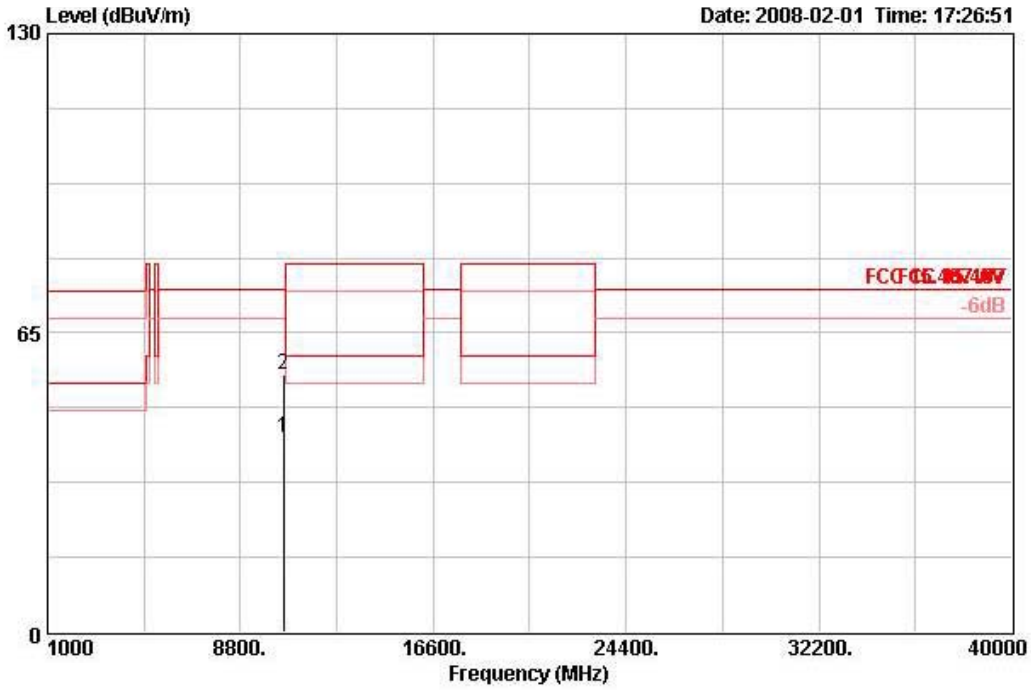
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 54 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10538.640	55.09	-19.21	74.30	42.17	38.39	9.44	34.92	PEAK	100	360	HORIZONTAL

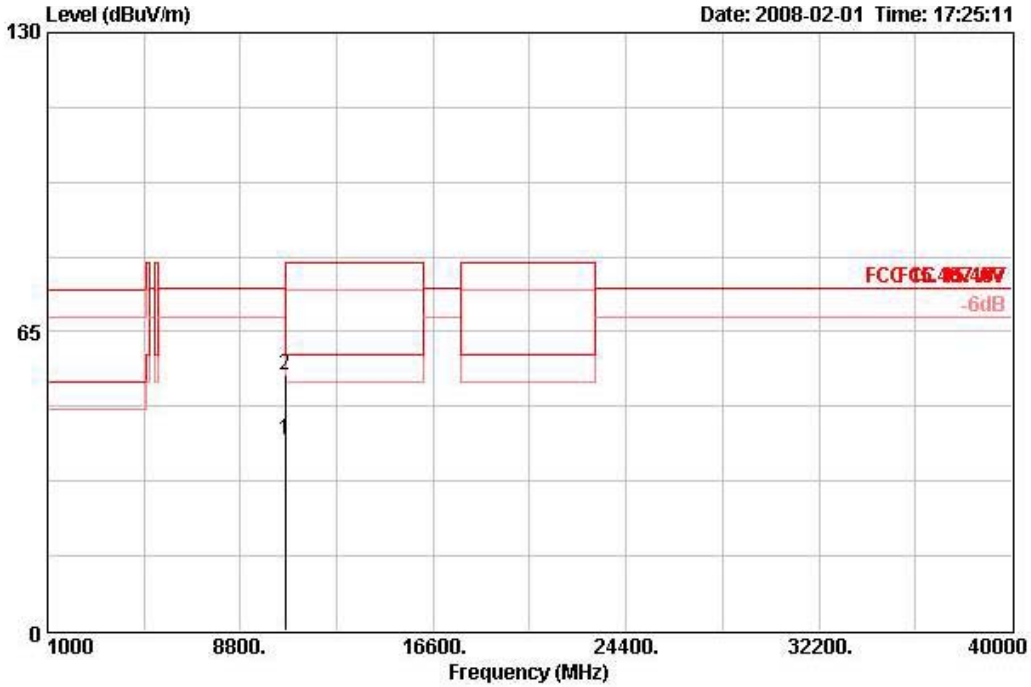
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
2	10540.310	55.79	-18.51	74.30	42.87	38.39	9.44	34.92	PEAK	100	119	VERTICAL

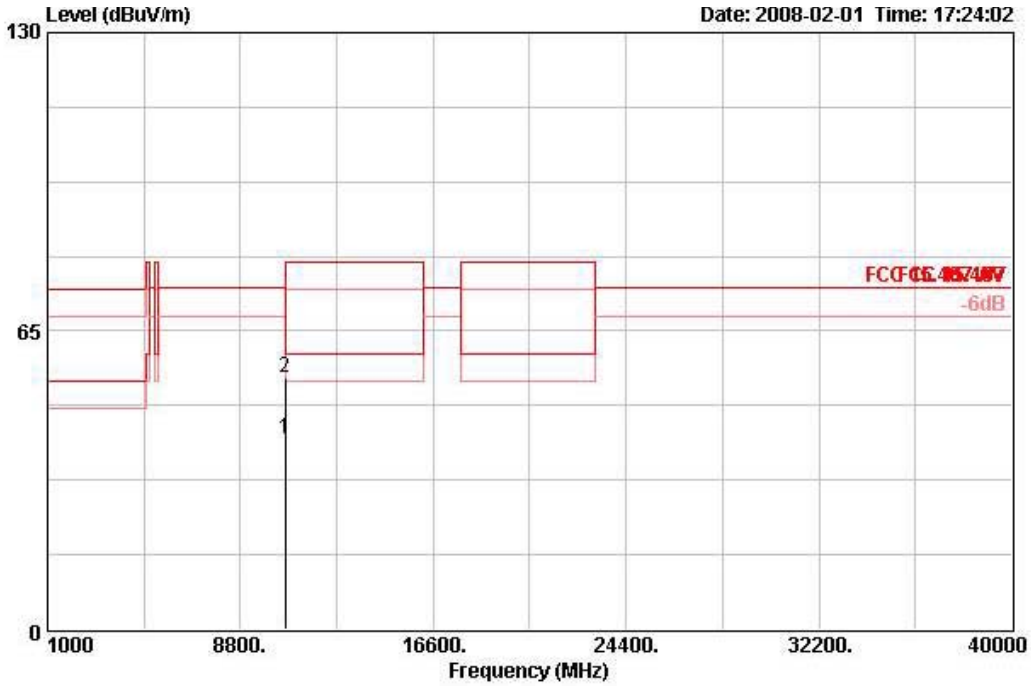
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 62 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10620.600	41.46	-18.54	60.00	28.49	38.38	9.48	34.89	AVERAGE	100	0	HORIZONTAL
2	10621.350	55.48	-24.52	80.00	42.51	38.38	9.48	34.89	PEAK	100	0	HORIZONTAL

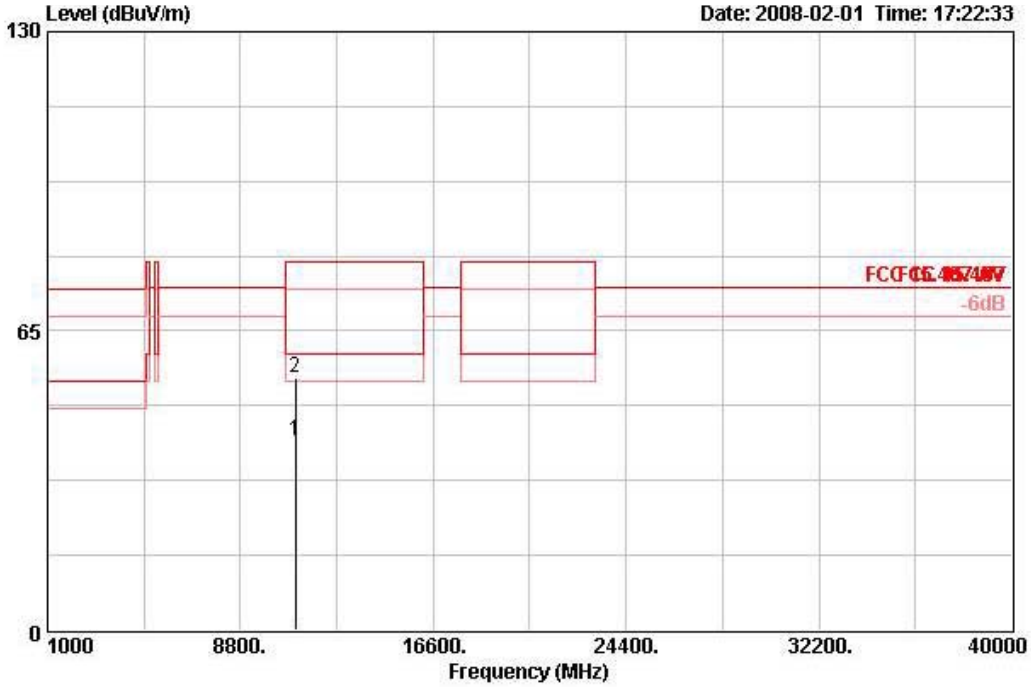
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10620.000	41.41	-18.59	60.00	28.44	38.38	9.48	34.89	AVERAGE	100	360	VERTICAL
2	10621.840	54.89	-25.11	80.00	41.92	38.38	9.48	34.89	PEAK	100	360	VERTICAL

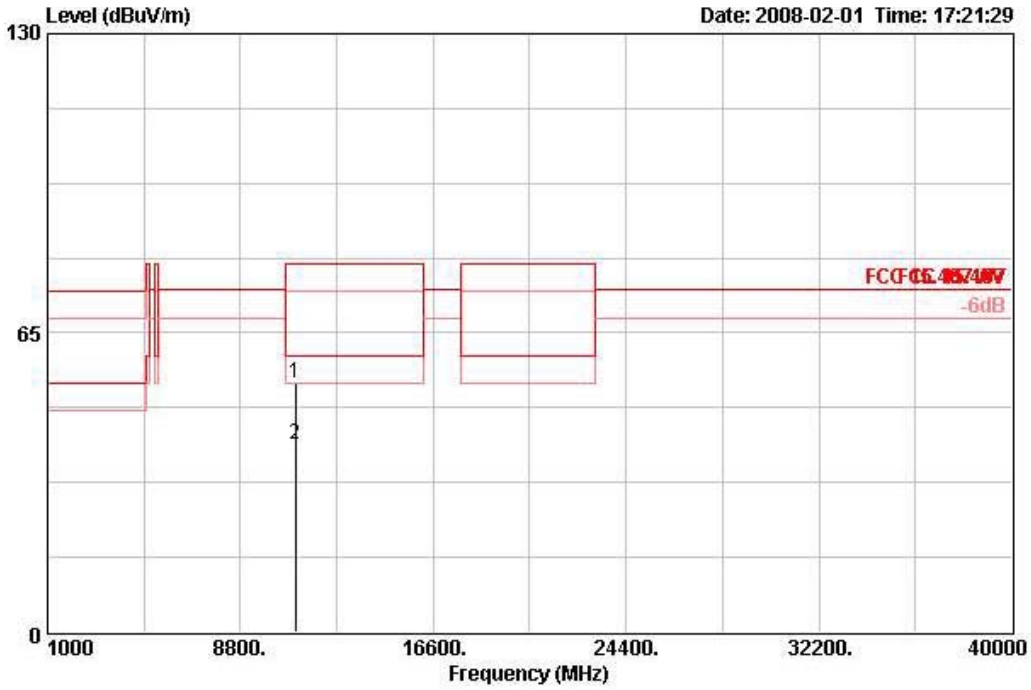
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 102 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11018.280	41.17	-18.83	60.00	27.92	38.32	9.69	34.77	AVERAGE	100	0	HORIZONTAL
2	11022.170	54.64	-25.36	80.00	41.37	38.33	9.69	34.77	PEAK	100	0	HORIZONTAL

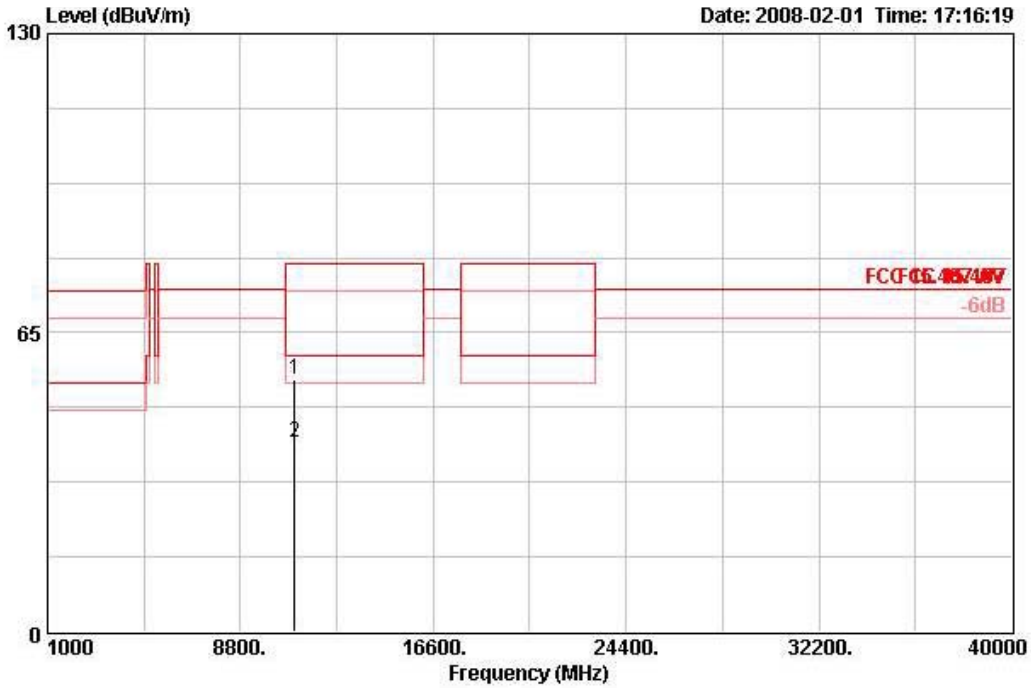
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11018.870	54.08	-25.92	80.00	40.84	38.32	9.69	34.77	PEAK	100	360	VERTICAL
2	11021.850	40.79	-19.21	60.00	27.53	38.33	9.69	34.77	AVERAGE	100	360	VERTICAL

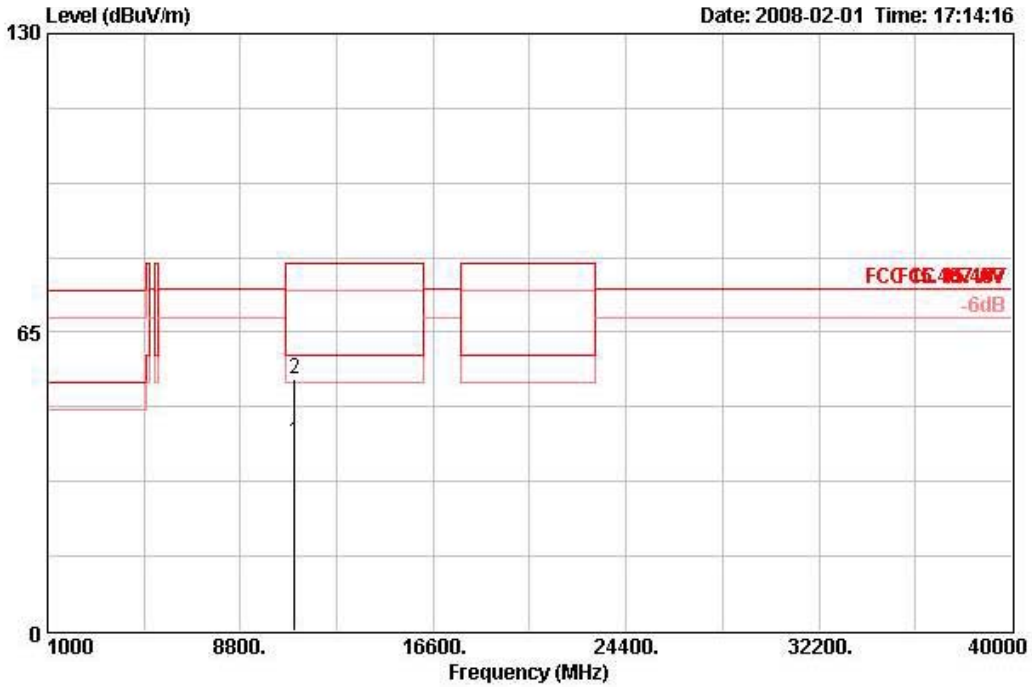
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 110 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	10997.960	54.64	-25.36	80.00	41.41	38.30	9.69	34.76	PEAK	100	178	HORIZONTAL
2	11001.350	40.93	-19.07	60.00	27.69	38.30	9.69	34.76	AVERAGE	100	178	HORIZONTAL

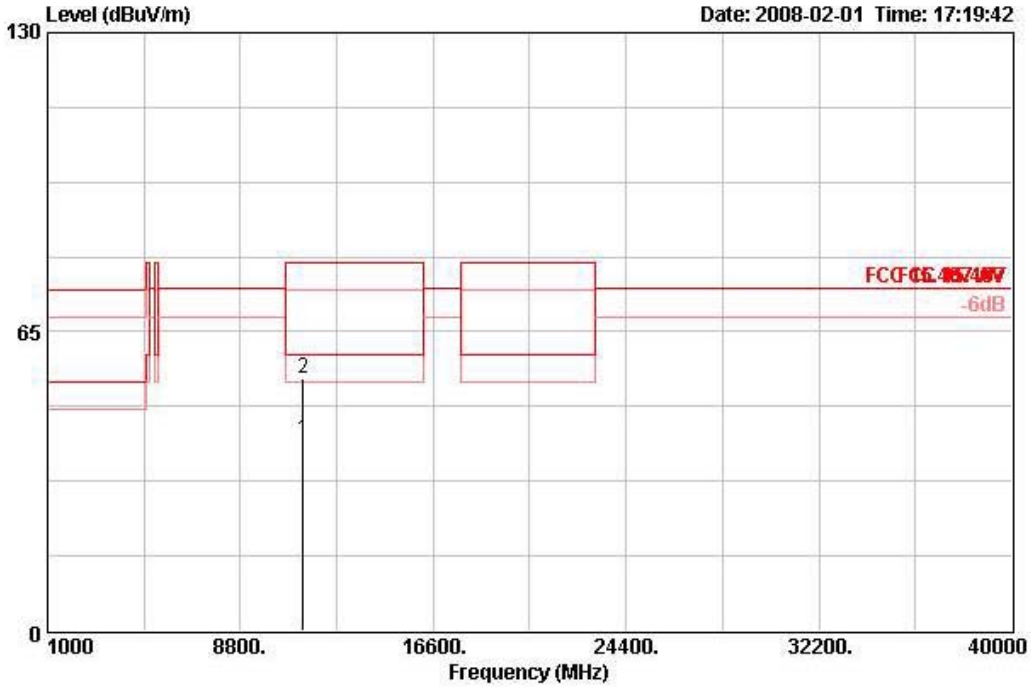
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11001.360	41.23	-18.77	60.00	27.99	38.30	9.69	34.76	AVERAGE	100	110	VERTICAL
2	11002.120	54.78	-25.22	80.00	41.54	38.30	9.69	34.76	PEAK	100	110	VERTICAL

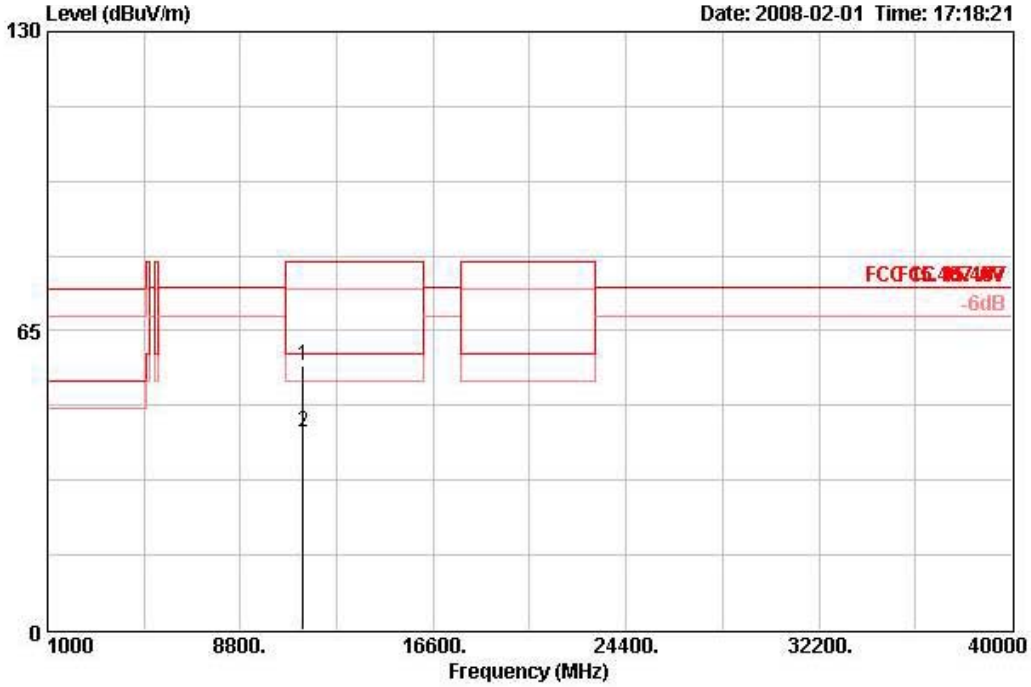
Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 134 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11338.250	41.59	-18.41	60.00	28.11	38.63	9.75	34.91	AVERAGE	100	0	HORIZONTAL
2	11341.490	54.74	-25.26	80.00	41.28	38.63	9.75	34.92	PEAK	100	0	HORIZONTAL

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	11339.930	57.51	-22.49	80.00	44.04	38.63	9.75	34.91	PEAK	120	357	VERTICAL
2	11340.950	42.84	-17.16	60.00	29.38	38.63	9.75	34.92	AVERAGE	120	357	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1 MHz /1 MHz for Peak

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 36, 48, 64 / Ant. A POE Mode (Horizontal)

Channel 36

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5148.600	73.21	-6.79	80.00	34.70	34.07	0.00	4.44	PEAK	41	100	VERTICAL
2 @	5150.000	58.28	-1.72	60.00	19.76	34.07	0.00	4.44	AVERAGE	40	100	VERTICAL
3 @	5181.200	121.68			83.09	34.16	0.00	4.43	PEAK	41	100	VERTICAL
4 @	5181.800	110.23			71.64	34.16	0.00	4.43	AVERAGE	41	100	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5150.000	57.80	-2.20	60.00	17.59	33.67	6.54	0.00	AVERAGE	111	297	VERTICAL
2 @	5150.000	69.77	-10.23	80.00	29.56	33.67	6.54	0.00	PEAK	111	297	VERTICAL
3 @	5240.800	110.68			70.28	33.82	6.58	0.00	AVERAGE	111	297	VERTICAL
4 @	5241.600	123.73			83.30	33.85	6.58	0.00	PEAK	111	297	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Channel 64

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5323.600	109.65			70.78	34.49	0.00	4.39	AVERAGE	59	100	VERTICAL
2 @	5324.000	121.83			82.95	34.49	0.00	4.39	PEAK	59	100	VERTICAL
3 @	5350.000	59.03	-0.97	60.00	20.08	34.57	0.00	4.38	AVERAGE	59	100	VERTICAL
4 @	5350.400	77.48	-2.52	80.00	38.53	34.57	0.00	4.38	PEAK	59	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 100, 140 / Ant. A POE Mode (Horizontal)

Channel 100

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5460.000	57.07	-2.93	60.00	17.91	34.82	0.00	4.35	AVERAGE	41	100	VERTICAL
2 @	5460.000	69.75	-10.25	80.00	30.58	34.82	0.00	4.35	PEAK	41	100	VERTICAL
3 @	5470.000	72.84	-1.46	74.30	33.63	34.86	0.00	4.35	PEAK	41	100	VERTICAL
4 @	5499.000	120.07			80.83	34.90	0.00	4.34	PEAK	41	100	VERTICAL
5 @	5500.400	106.91			67.67	34.90	0.00	4.34	AVERAGE	41	100	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5698.800	118.66			78.79	35.48	0.00	4.39	PEAK	39	100	VERTICAL
2 @	5699.000	106.18			66.31	35.48	0.00	4.39	AVERAGE	39	100	VERTICAL
3 @	5725.000	73.10	-1.20	74.30	33.17	35.53	0.00	4.40	PEAK	39	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 38, 54, 62 / Ant. A POE Mode (Horizontal)

Channel 38

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5150.000	59.58	-0.42	60.00	21.06	34.07	0.00	4.44	AVERAGE	317	100	VERTICAL
2 @	5150.000	71.60	-8.40	80.00	33.09	34.07	0.00	4.44	PEAK	317	100	VERTICAL
3 @	5177.600	113.93			75.34	34.16	0.00	4.43	PEAK	317	100	VERTICAL
4 @	5197.200	103.23			64.60	34.20	0.00	4.43	AVERAGE	317	100	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 54

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5273.200	121.49			82.72	34.36	0.00	4.40	PEAK	66	106	VERTICAL
2 @	5273.600	108.05			69.28	34.36	0.00	4.40	AVERAGE	66	106	VERTICAL
3 @	5350.000	57.79	-2.21	60.00	18.84	34.57	0.00	4.38	AVERAGE	66	106	VERTICAL
4 @	5350.400	73.29	-6.71	80.00	34.34	34.57	0.00	4.38	PEAK	66	106	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5301.200	115.31			76.47	34.44	0.00	4.40	PEAK	60	104	VERTICAL
2 @	5316.800	104.14			65.26	34.49	0.00	4.40	AVERAGE	60	104	VERTICAL
3 @	5350.000	59.66	-0.34	60.00	20.71	34.57	0.00	4.38	AVERAGE	60	104	VERTICAL
4 @	5353.600	76.69	-3.31	80.00	37.74	34.57	0.00	4.38	PEAK	60	104	VERTICAL

Item1, 2 are the fundamental frequency at 5310 MHz.

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 102, 110, 134 / Ant. A POE Mode (Horizontal)

Channel 102

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5460.000	73.23	-6.77	80.00	34.07	34.82	0.00	4.35	PEAK	49	108	VERTICAL
2 @	5460.000	58.75	-1.25	60.00	19.58	34.82	0.00	4.35	AVERAGE	49	108	VERTICAL
3 @	5470.000	74.09	-0.21	74.30	34.89	34.86	0.00	4.35	PEAK	49	108	VERTICAL
4 @	5499.600	114.09			74.85	34.90	0.00	4.34	PEAK	49	108	VERTICAL
5 @	5503.200	102.88			63.59	34.95	0.00	4.35	AVERAGE	49	108	VERTICAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5458.800	71.70	-8.30	80.00	30.80	34.21	6.69	0.00	PEAK	114	63	VERTICAL
2 @	5460.000	58.98	-1.02	60.00	18.08	34.21	6.69	0.00	AVERAGE	114	63	VERTICAL
3 @	5465.800	73.86	-0.44	74.30	32.94	34.24	6.69	0.00	PEAK	114	63	VERTICAL
4 @	5537.200	104.12			63.09	34.31	6.73	0.00	AVERAGE	114	63	VERTICAL
5 @	5538.000	116.91			75.88	34.31	6.73	0.00	PEAK	114	63	VERTICAL

Item 1, 2 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm	
1 @	5660.800	104.51			64.74	35.38	0.00	4.39	AVERAGE	39	100	VERTICAL
2 @	5662.800	116.19			76.42	35.38	0.00	4.39	PEAK	39	100	VERTICAL
3 @	5725.800	71.51	-2.79	74.30	31.59	35.53	0.00	4.40	PEAK	39	100	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 36, 48, 64 / Ant. B POE Mode (Horizontal)

Channel 36

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	5150.000	59.94	-0.06	60.00	19.73	33.67	6.54	0.00	AVERAGE	135	210	VERTICAL
2 !	5150.000	75.18	-4.82	80.00	34.97	33.67	6.54	0.00	PEAK	135	210	VERTICAL
3 over	5177.600	104.98			64.69	33.73	6.55	0.00	AVERAGE	135	210	VERTICAL
4 over	5181.000	117.94			77.65	33.73	6.55	0.00	PEAK	135	210	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 @	5148.000	74.68	-5.32	80.00	34.47	33.67	6.54	0.00	PEAK	117	174	VERTICAL
2 @	5150.000	59.50	-0.50	60.00	19.29	33.67	6.54	0.00	AVERAGE	117	174	VERTICAL
3 @	5236.800	122.28			81.88	33.82	6.58	0.00	PEAK	117	174	VERTICAL
4 @	5241.600	110.17			69.75	33.85	6.58	0.00	AVERAGE	117	174	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Channel 64

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 over	5323.800	105.13			64.53	33.97	6.63	0.00	AVERAGE	132	176	VERTICAL
2 over	5326.800	118.40			77.77	34.00	6.63	0.00	PEAK	132	176	VERTICAL
3 !	5350.000	59.83	-0.17	60.00	19.16	34.03	6.64	0.00	AVERAGE	132	176	VERTICAL
4 !	5350.200	74.79	-5.21	80.00	34.12	34.03	6.64	0.00	PEAK	132	176	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 100, 140 / Ant. B POE Mode (Horizontal)

Channel 100

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5460.000	69.90	-10.10	80.00	29.01	34.21	6.69	0.00	PEAK	140	231	VERTICAL
2 !	5460.000	57.63	-2.37	60.00	16.73	34.21	6.69	0.00	AVERAGE	140	231	VERTICAL
3 !	5470.000	71.79	-2.51	74.30	30.86	34.24	6.69	0.00	PEAK	140	231	VERTICAL
4 over	5498.600	107.15			66.15	34.30	6.70	0.00	AVERAGE	140	231	VERTICAL
5 over	5506.000	120.38			79.36	34.30	6.71	0.00	PEAK	140	231	VERTICAL

Item 4, 5 are the fundamental frequency at 5500 MHz.

Channel 140

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 over	5695.400	104.64			63.49	34.34	6.81	0.00	AVERAGE	138	130	VERTICAL
2 over	5697.800	118.13			76.99	34.34	6.81	0.00	PEAK	138	130	VERTICAL
3 !	5725.000	72.28	-2.02	74.30	31.11	34.34	6.82	0.00	PEAK	138	130	VERTICAL

Item 1, 2 are the fundamental frequency at 5700 MHz.

Temperature	26℃	Humidity	60%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 38, 54, 62 / Ant. B POE Mode (Horizontal)

Channel 38

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 !	5148.000	57.87	-2.13	60.00	17.66	33.67	6.54	0.00	AVERAGE	126	0	VERTICAL
2	5150.000	70.64	-9.36	80.00	30.43	33.67	6.54	0.00	PEAK	126	0	VERTICAL
3 over	5179.200	109.30			69.01	33.73	6.55	0.00	PEAK	126	0	VERTICAL
4 over	5181.600	95.57			55.28	33.73	6.55	0.00	AVERAGE	126	0	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 54

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 over	5281.600	117.63			77.11	33.91	6.60	0.00	PEAK	140	184	VERTICAL
2 over	5284.800	105.08			64.57	33.91	6.60	0.00	AVERAGE	140	184	VERTICAL
3 !	5350.000	59.05	-0.95	60.00	18.38	34.03	6.64	0.00	AVERAGE	140	184	VERTICAL
4	5351.200	73.58	-6.42	80.00	32.91	34.03	6.64	0.00	PEAK	140	184	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

Channel 62

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 over	5298.000	111.49			70.93	33.94	6.62	0.00	PEAK	139	206	VERTICAL
2 over	5326.400	99.26			58.66	33.97	6.63	0.00	AVERAGE	139	206	VERTICAL
3 !	5350.000	58.56	-1.44	60.00	17.89	34.03	6.64	0.00	AVERAGE	139	206	VERTICAL
4	5350.000	70.63	-9.37	80.00	29.96	34.03	6.64	0.00	PEAK	139	206	VERTICAL

Item1, 2 are the fundamental frequency at 5310 MHz.

Temperature	18℃	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 102, 110, 134 / Ant. B POE Mode (Horizontal)

Channel 102

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5459.600	69.90	-10.10	80.00	29.00	34.21	6.69	0.00	PEAK	144	233	VERTICAL
2 !	5460.000	57.70	-2.30	60.00	16.81	34.21	6.69	0.00	AVERAGE	144	233	VERTICAL
3 !	5469.200	71.02	-3.28	74.30	30.09	34.24	6.69	0.00	PEAK	144	233	VERTICAL
4 over	5493.600	113.29			72.32	34.27	6.70	0.00	PEAK	144	233	VERTICAL
5 over	5503.200	100.02			59.00	34.30	6.71	0.00	AVERAGE	144	233	VERTICAL

Item 4, 5 are the fundamental frequency at 5510MHz.

Channel 110

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1	5458.000	73.69	-6.31	80.00	32.79	34.21	6.69	0.00	PEAK	145	127	VERTICAL
2 !	5460.000	59.45	-0.55	60.00	18.56	34.21	6.69	0.00	AVERAGE	145	127	VERTICAL
3 !	5470.000	72.72	-1.58	74.30	31.79	34.24	6.69	0.00	PEAK	145	127	VERTICAL
4 over	5535.200	117.49			76.46	34.31	6.73	0.00	PEAK	145	127	VERTICAL
5 over	5537.200	105.47			64.43	34.31	6.73	0.00	AVERAGE	145	127	VERTICAL

Item 3, 4 are the fundamental frequency at 5550 MHz.

Channel 134

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	
1 over	5662.400	117.93			76.80	34.33	6.79	0.00	PEAK	140	229	VERTICAL
2 over	5663.600	104.15			63.03	34.33	6.79	0.00	AVERAGE	140	229	VERTICAL
3 !	5728.200	72.37	-1.93	74.30	31.21	34.34	6.82	0.00	PEAK	140	229	VERTICAL

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

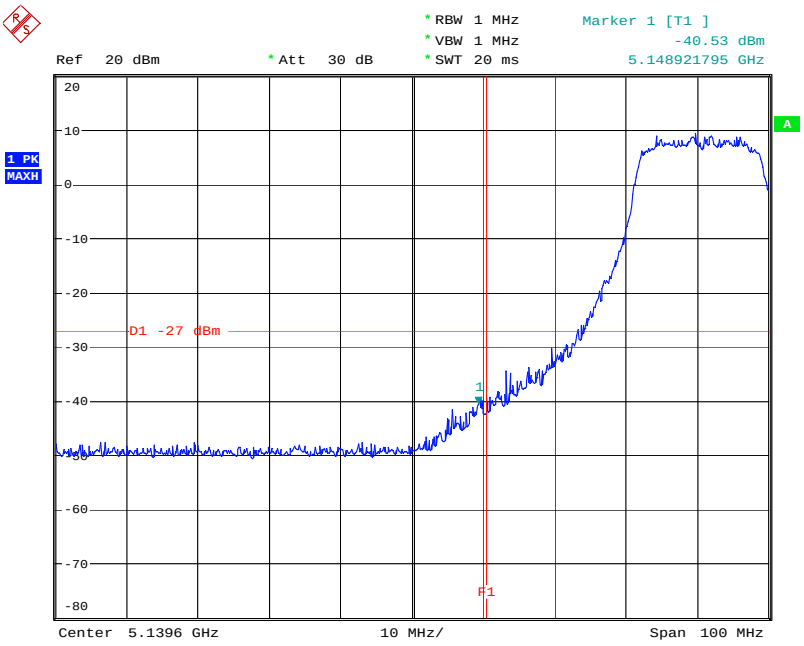
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

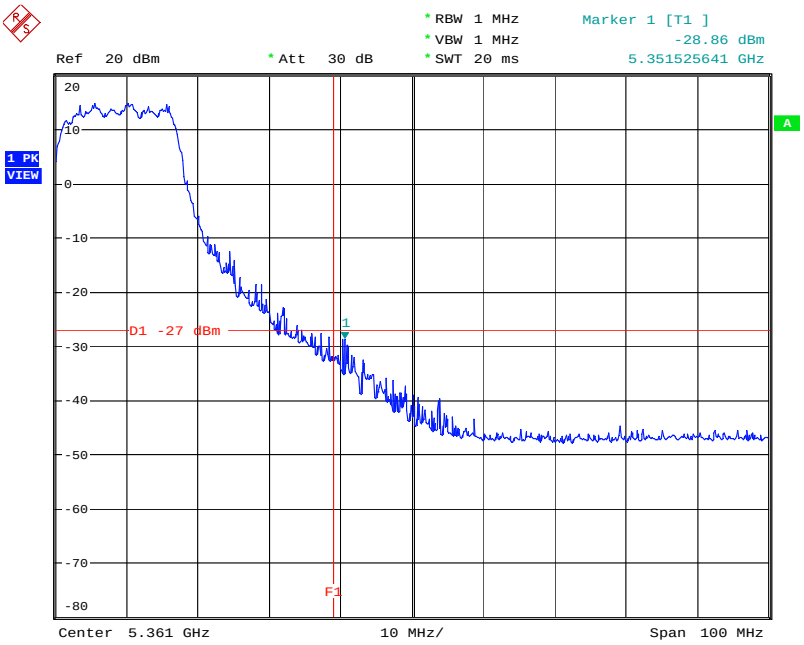
Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. A-1+A-2+A-3 / 5180 MHz



Date: 12.MAR.2008 20:42:49

EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. A-1+A-2+A-3 / 5320 MHz



Date: 12.FEB.2008 14:43:11

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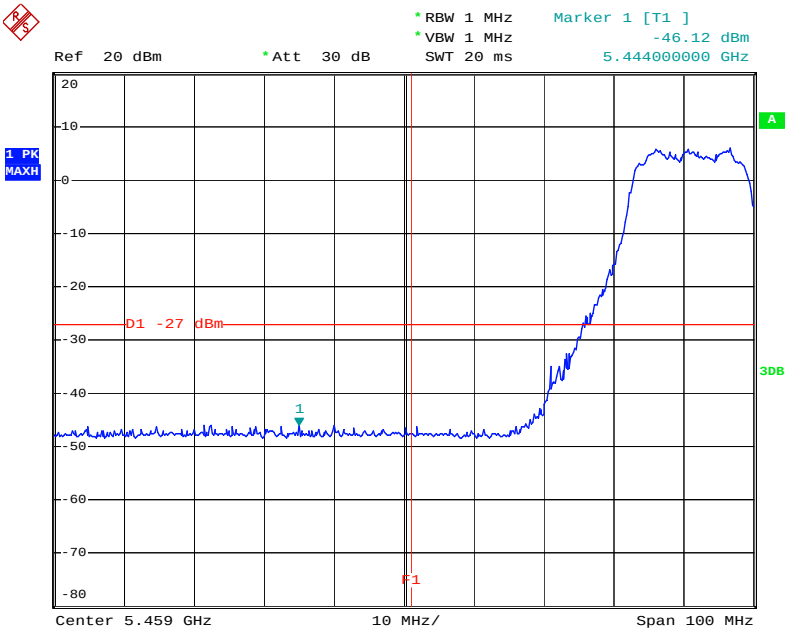
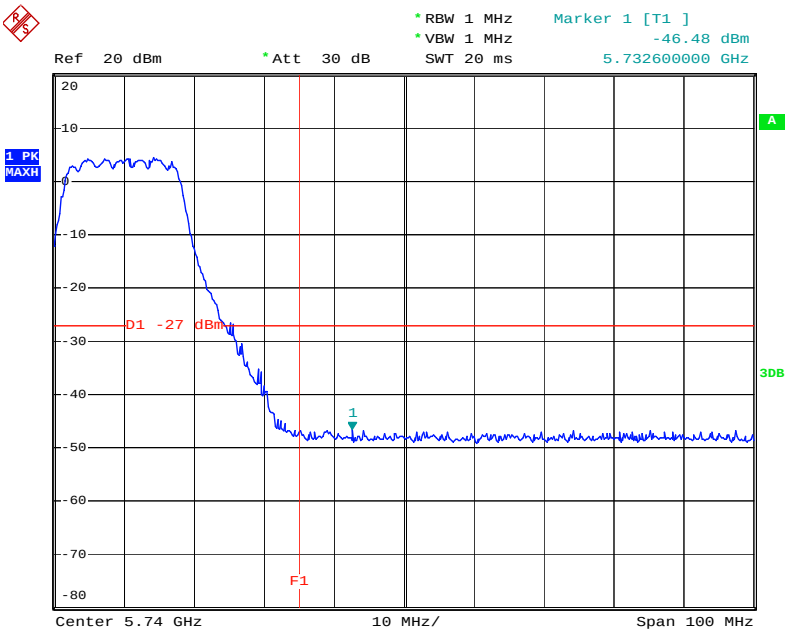


Date: 3.FEB.2008 16:52:00

EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. A-1+A-2+A-3 / 5700 MHz



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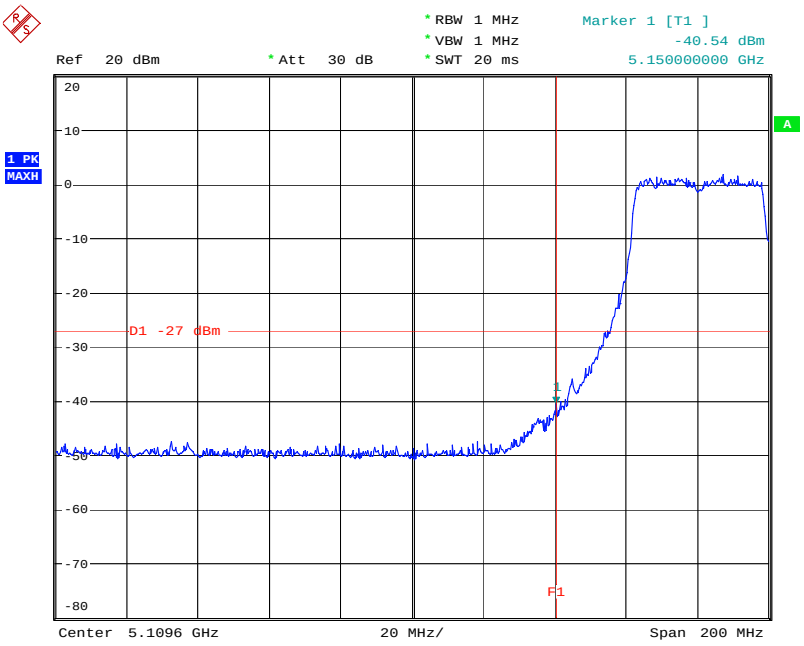
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. A-1+A-2+A-3 / 5190 MHz



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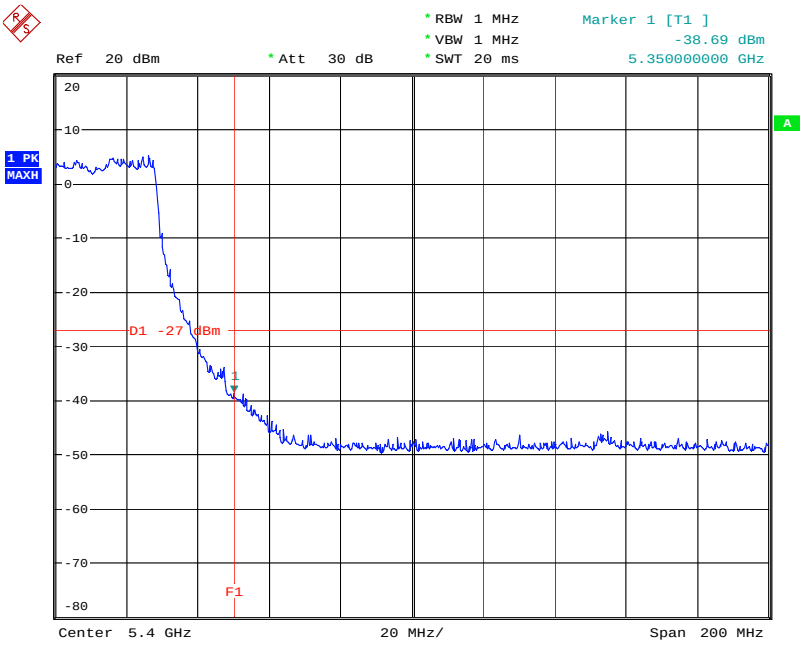

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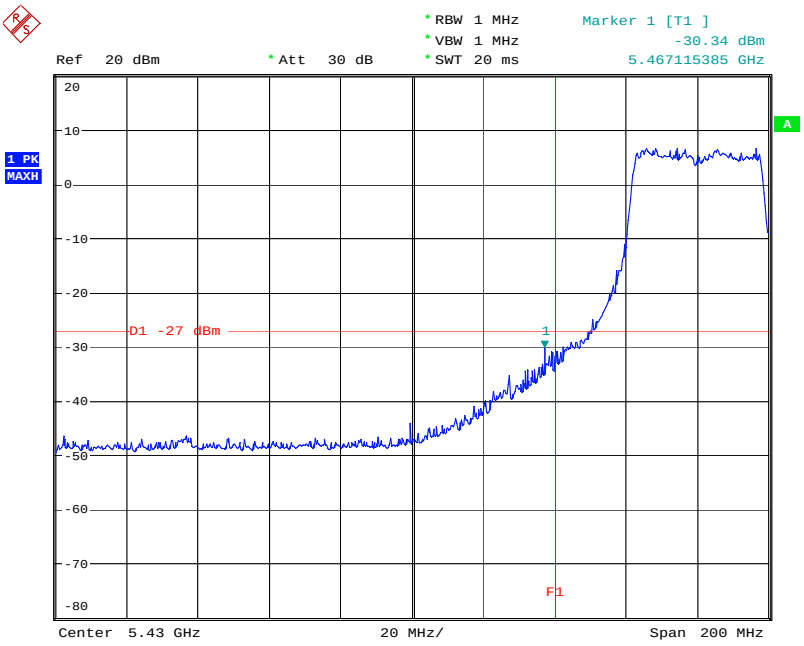
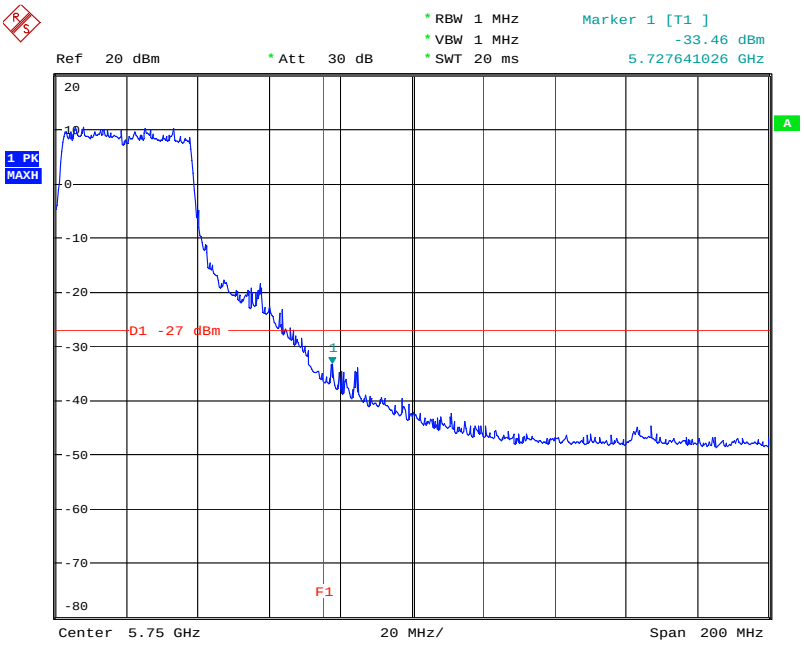
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. A-1+A-2+A-3 / 5510MHz



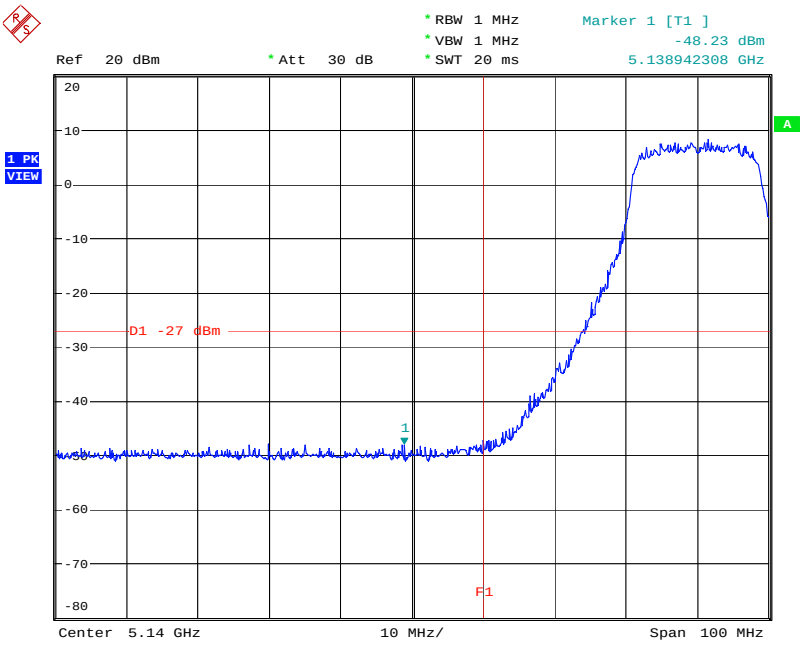
Date: 12.FEB.2008 14:07:31

EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. A-1+A-2+A-3 / 5670 MHz

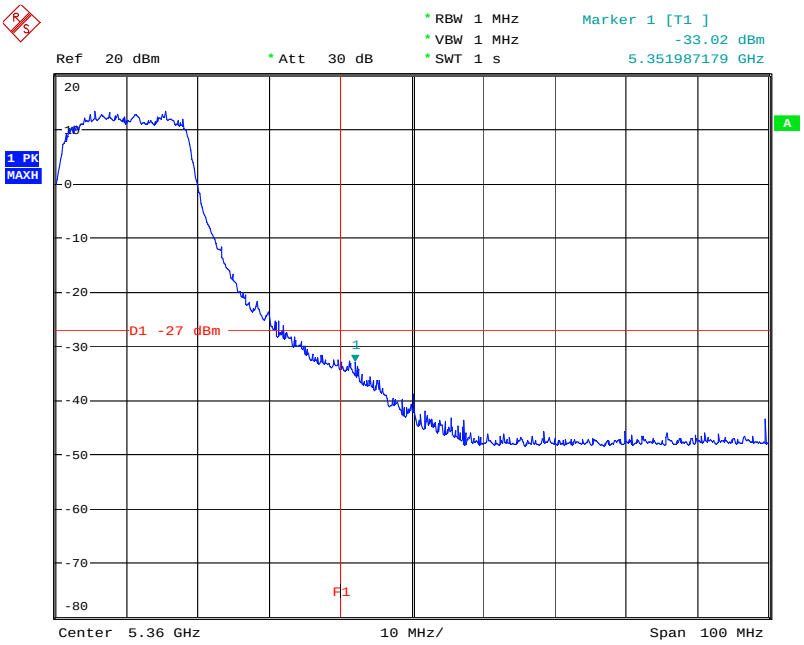


Date: 12.FEB.2008 14:08:43

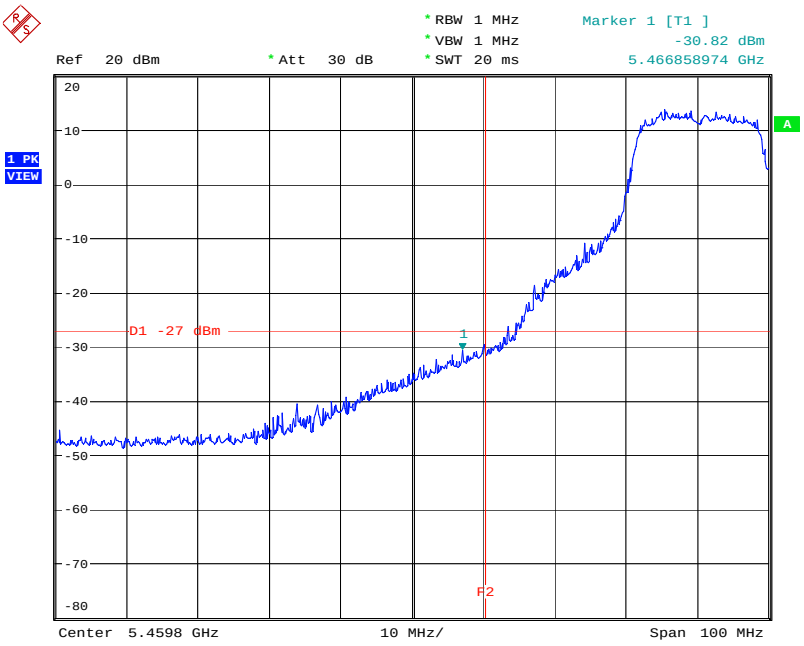
EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. B-1+B-2+B-3 / 5180 MHz



EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. B-1+B-2+B-3 / 5320 MHz



EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. B-1+B-2+B-3 / 5500 MHz



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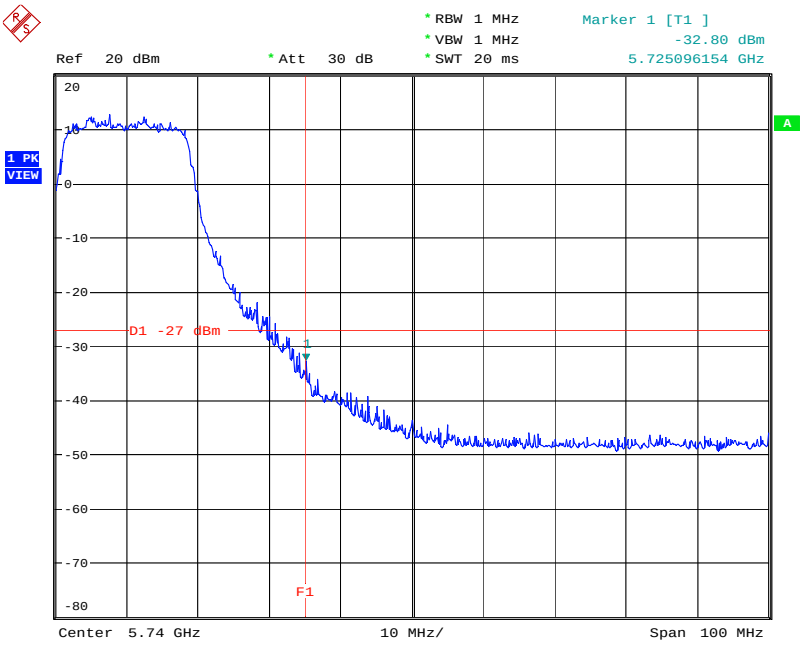
EIRP Emission in Band on Configuration Draft n MCS16 20MHz Ant. B-1+B-2+B-3 / 5700 MHz



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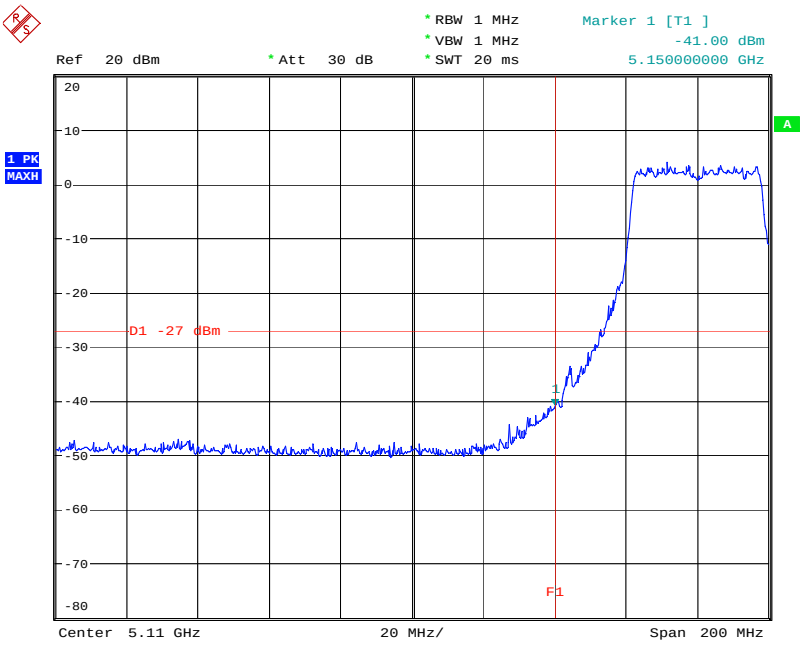
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5190 MHz



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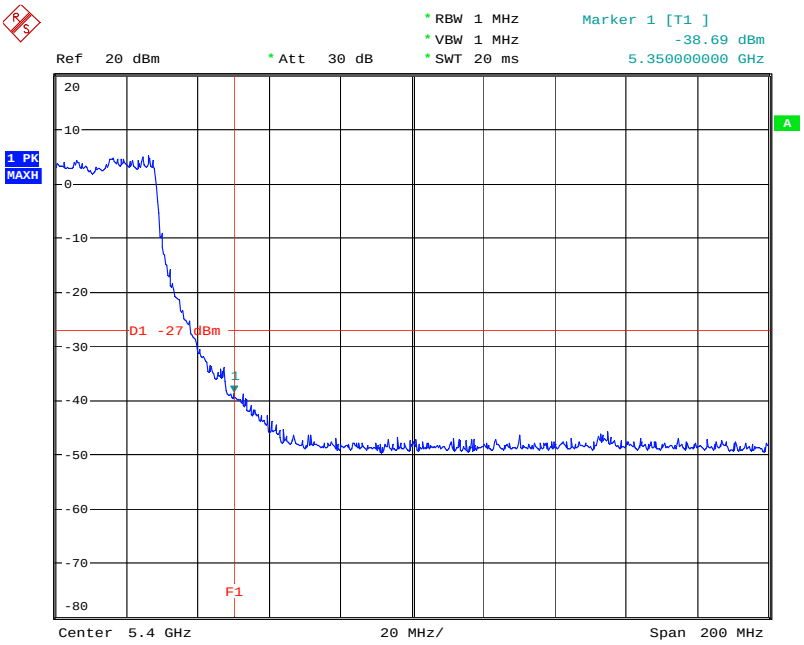
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5310 MHz



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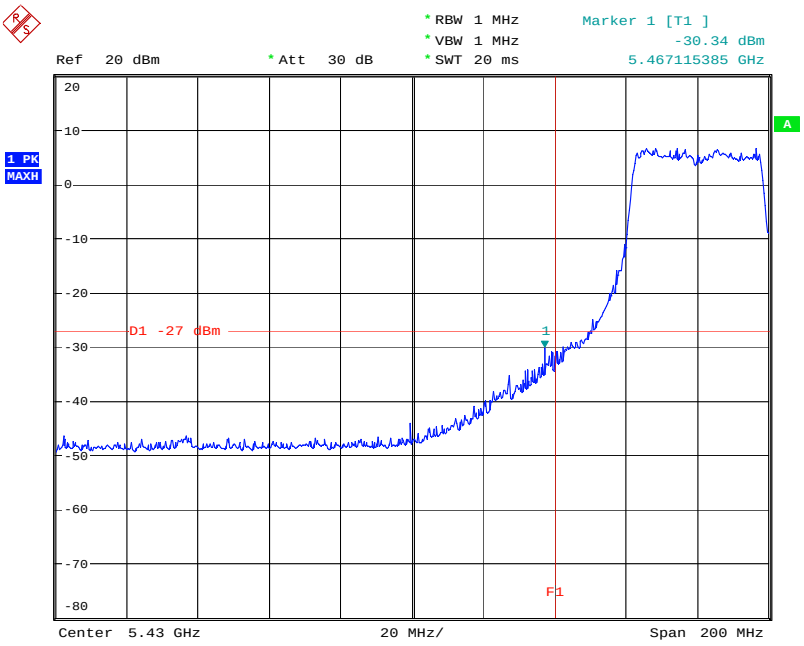
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5510MHz



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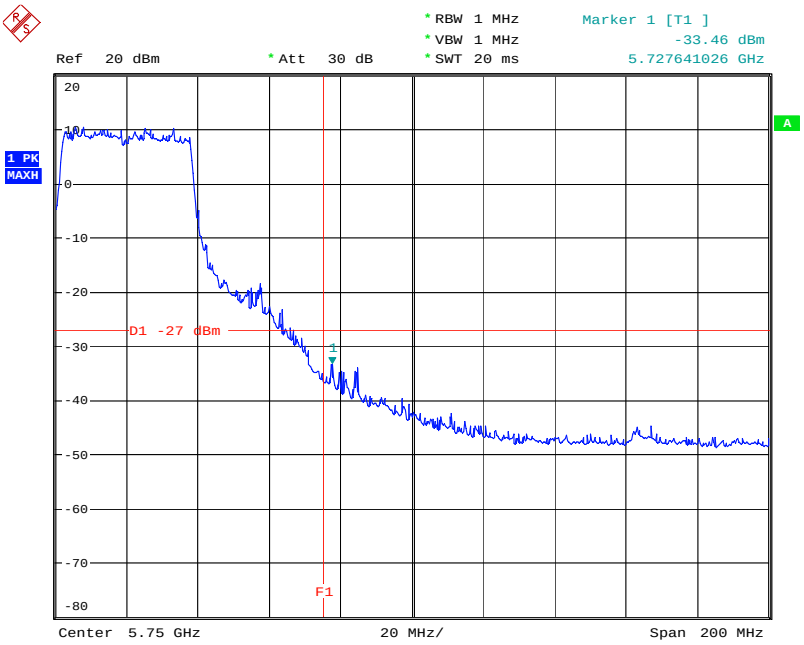
EIRP Emission in Band on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5670 MHz



Date: 12.FEB.2008 14:08:43

4.8. Frequency Stability Measurement

4.8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or ±20ppm (Draft n specification).

4.8.2. Measuring Instruments and Setting

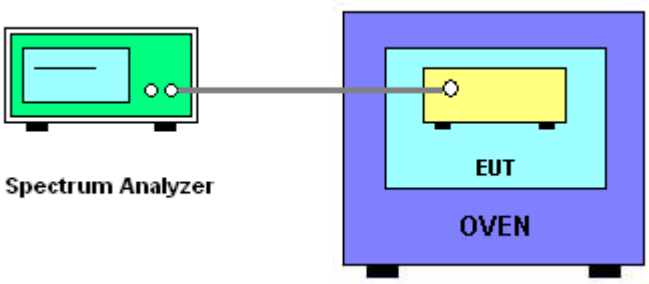
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (Draft n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature rule is -30°C~50°C.
8. Measuring multiple antennas, the connector is required to link with spectrum analyser through a combiner.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5260
126.50	5260.015300
110.00	5260.023700
93.50	5260.022800
Max. Deviation (MHz)	**0.023700**
Max. Deviation (ppm)	**4.51**

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(℃)	5260
-30	5260.066700
-20	5260.057600
-10	5260.032000
0	5260.000000
10	5259.998800
20	5259.967900
30	5259.966500
40	5259.956900
50	5259.951900
Max. Deviation (MHz)	**0.066700**
Max. Deviation (ppm)	**12.68**

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2007	Conduction (CO04-HY)
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 27, 2007	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2007	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02116	1 GHz - 26.5 GHz	Jun. 07, 2007	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz - 40 GHz	Sep. 27, 2007	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 21, 2007	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 04, 2007	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 03, 2007	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100458	DC ~ 30GHz	Jun. 27, 2007	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 27, 2007	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 04, 2007*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2007	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 03, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Jan. 14, 2008	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Jan. 04, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Jan. 04, 2008	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Nov. 14, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 07, 2007	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 07, 2008	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

* Calibration Interval of instruments listed above is two year.

NCR means Non-Calibration required.

6. TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-070110

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	:	ISO/IEC 17025:2005
Accreditation Number	:	1190
Originally Accredited	:	December 15, 2003
Effective Period	:	January 10, 2007 to January 09, 2010
Accredited Scope	:	Testing Field, see described in the Appendix
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 10, 2007

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The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.