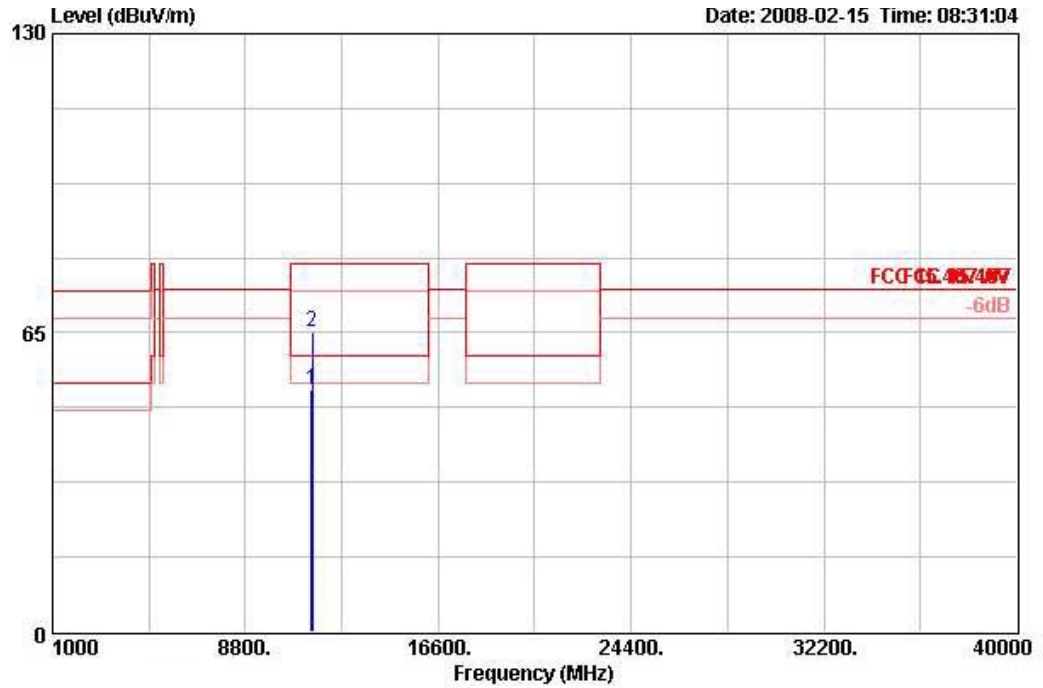


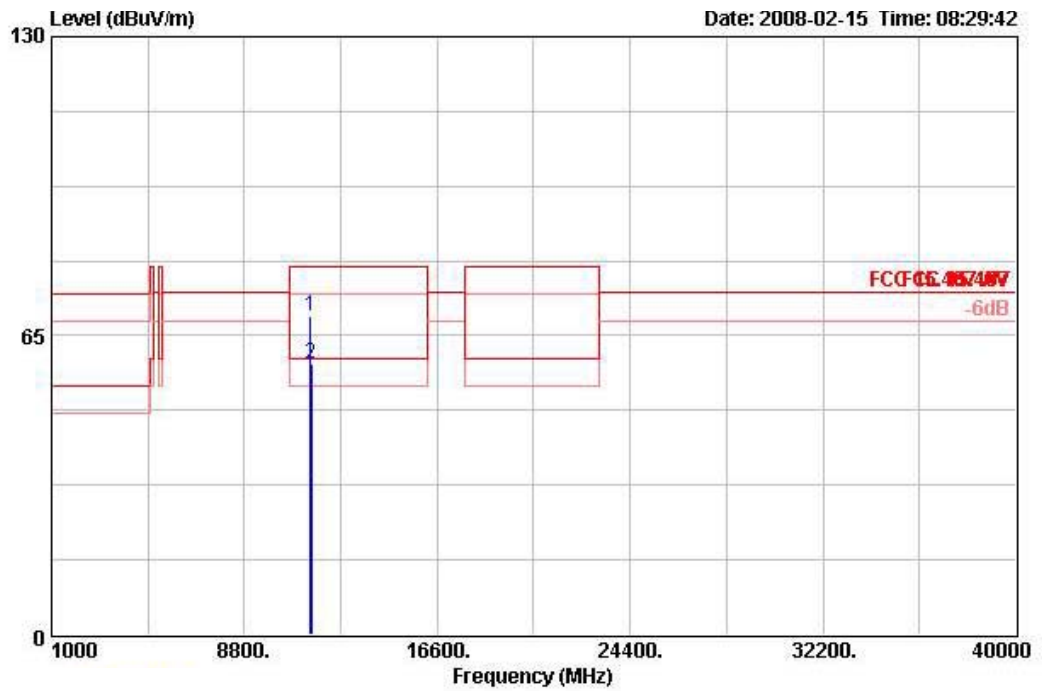
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 149 / Ant. A POE Mode (Horizontal)

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	11485.840	52.55	-7.45	60.00	37.31	39.09	34.75	10.90	AVERAGE	243	100	HORIZONTAL
2	11491.200	65.23	-14.77	80.00	49.98	39.10	34.75	10.90	PEAK	243	100	HORIZONTAL

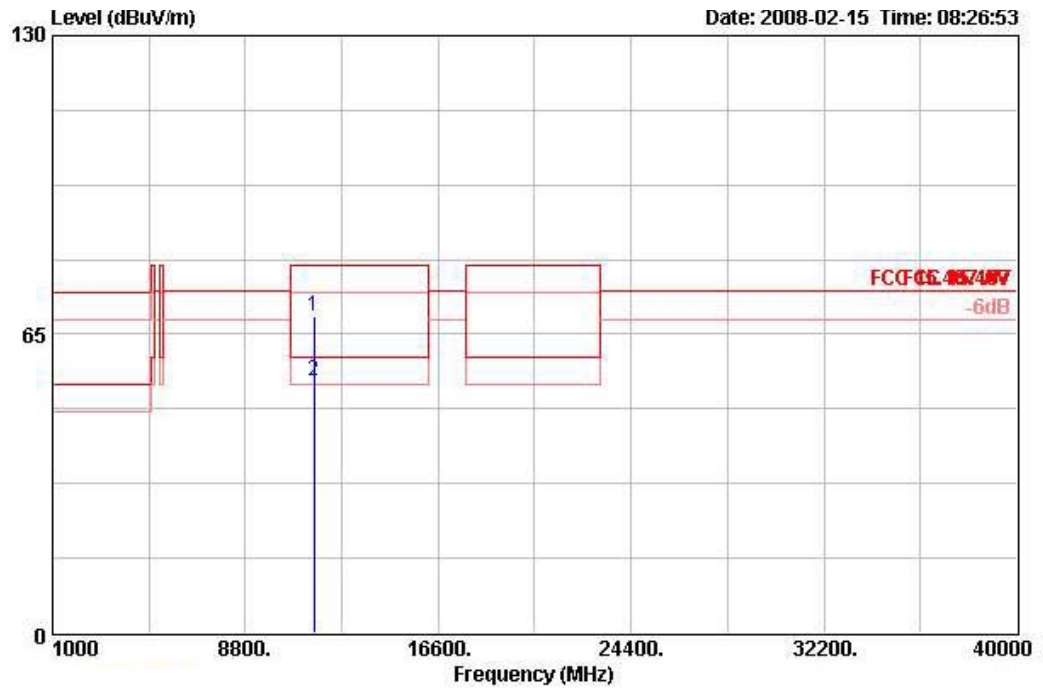
Vertical



	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	
1	11485.600	69.42	-10.58	80.00	54.18	39.09	34.75	10.90	PEAK	218	100	VERTICAL
2	11490.920	58.81	-1.19	60.00	43.56	39.10	34.75	10.90	AVERAGE	218	100	VERTICAL

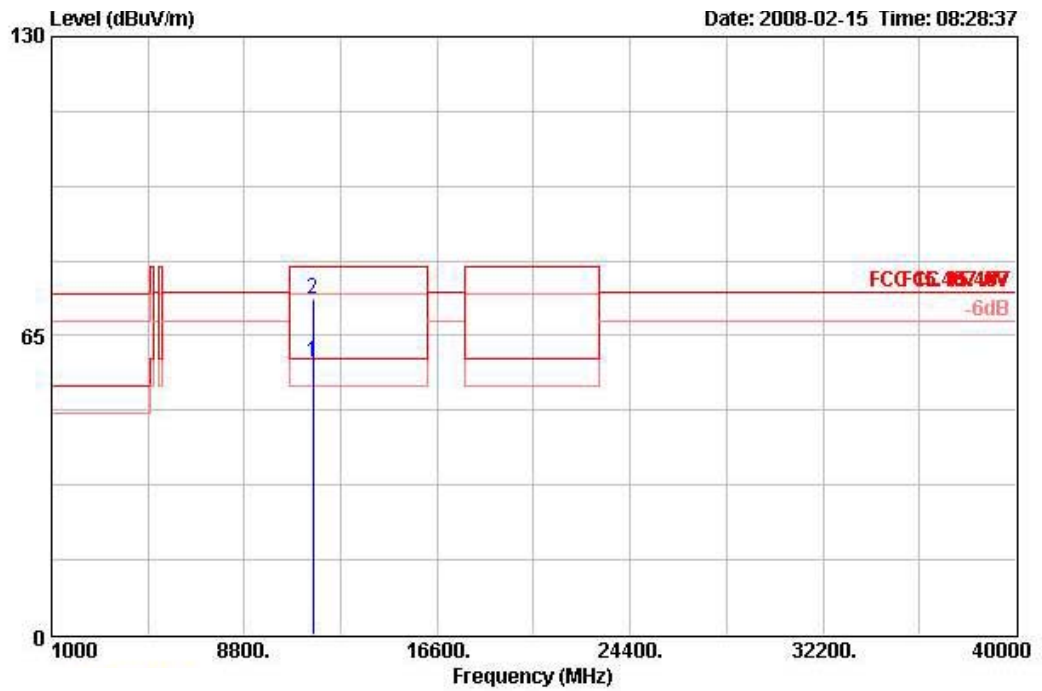
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 157 / Ant. A POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Ant Pol/Phase
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		deg	cm	
1	11568.680	68.96	-11.04	80.00	53.80	39.10	34.80	10.86	PEAK	238	100	HORIZONTAL
2	11570.960	54.77	-5.23	60.00	39.67	39.10	34.82	10.83	AVERAGE	238	100	HORIZONTAL

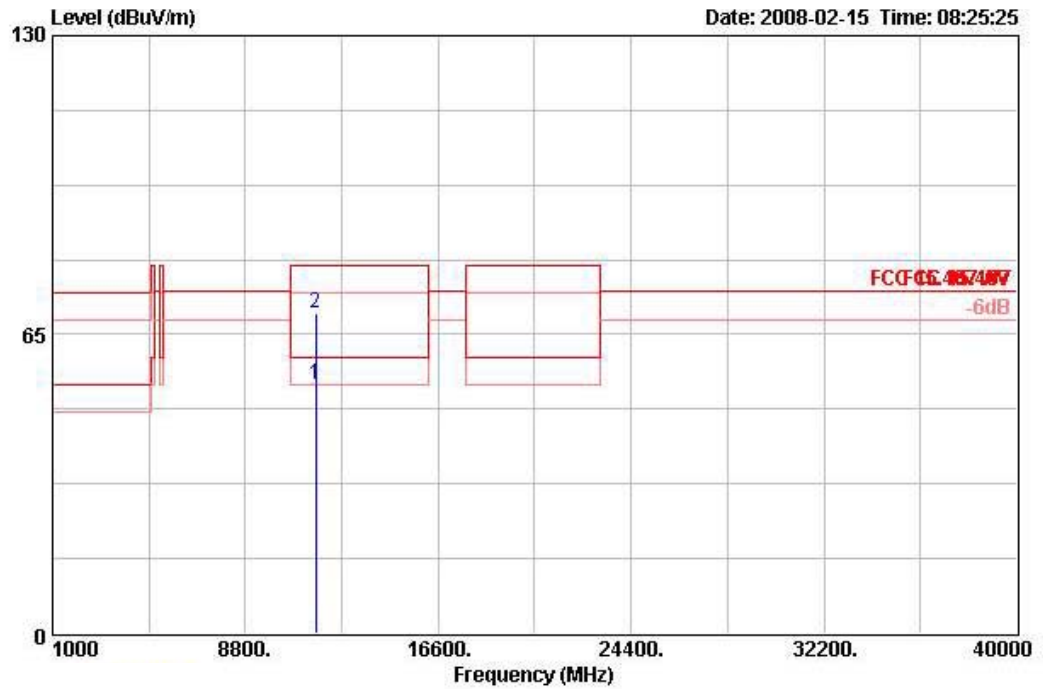
Vertical



	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	
1	11565.360	59.34	-0.66	60.00	44.18	39.10	34.80	10.86	AVERAGE	220	100	VERTICAL
2	11571.160	72.88	-7.12	80.00	57.77	39.10	34.82	10.83	PEAK	220	100	VERTICAL

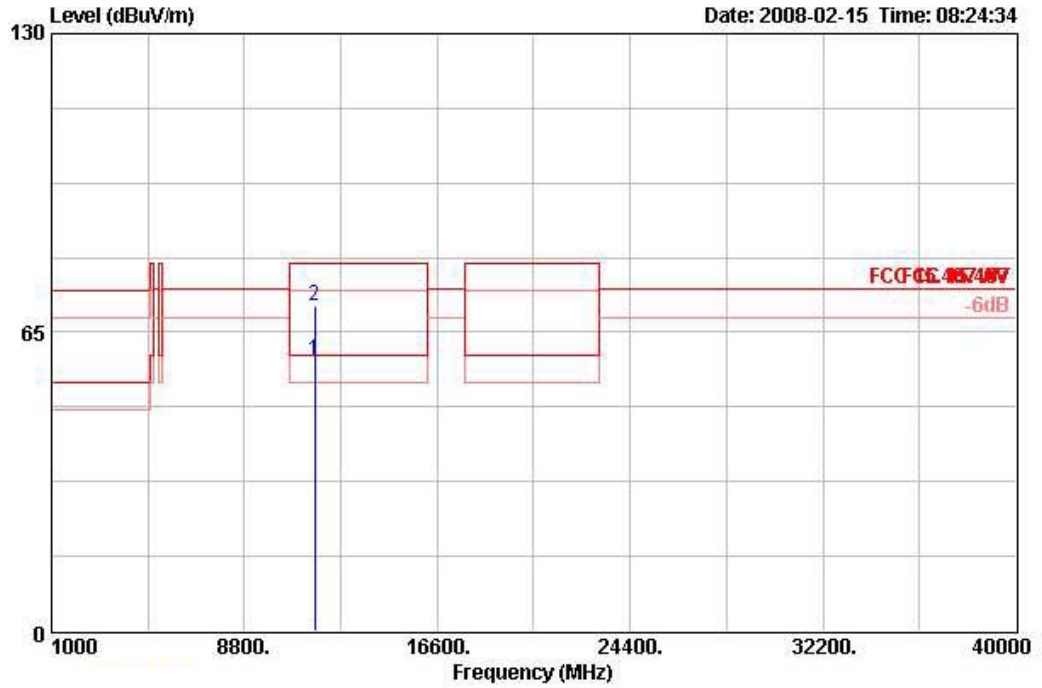
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 165 / Ant. A POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos	Pol/Phase
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB		deg	cm	
1	11649.080	54.14	-5.86	60.00	39.21	39.10	34.90	10.72 AVERAGE	294	100	HORIZONTAL
2	11652.960	69.51	-10.49	80.00	54.58	39.10	34.90	10.72 PEAK	294	100	HORIZONTAL

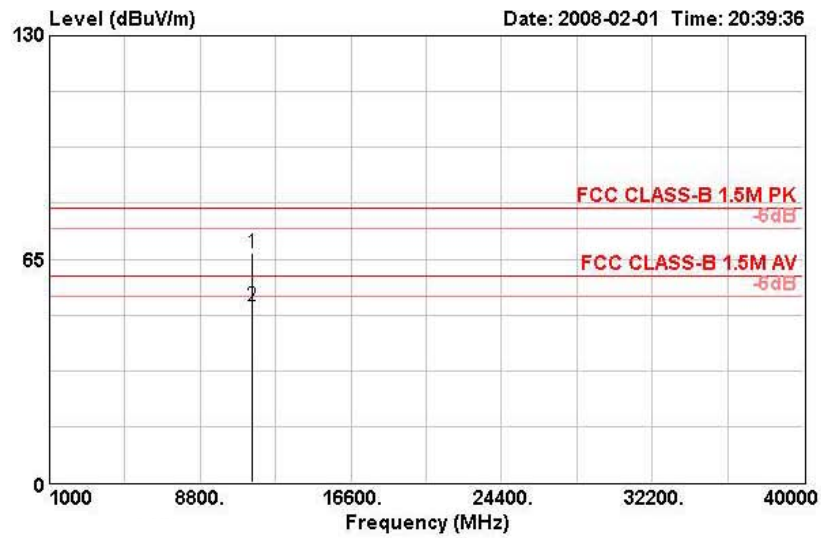
Vertical



	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	
1	11644.040	58.87	-1.13	60.00	43.89	39.10	34.87	10.76	AVERAGE	117	100	VERTICAL
2	11659.720	70.90	-9.10	80.00	55.97	39.10	34.90	10.72	PEAK	117	100	VERTICAL

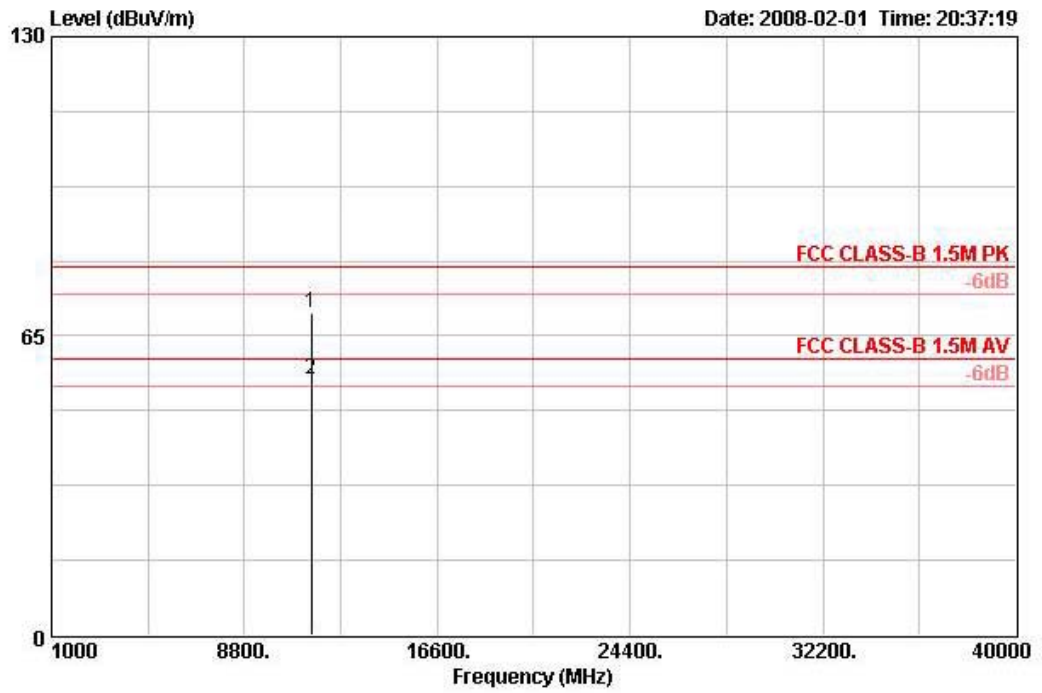
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 149 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11489.900	66.90	-13.10	80.00	53.33	38.78	9.78	34.98	PEAK	128	285	HORIZONTAL
2 @	11490.790	51.47	-8.53	60.00	37.90	38.78	9.78	34.98	AVERAGE	128	285	HORIZONTAL

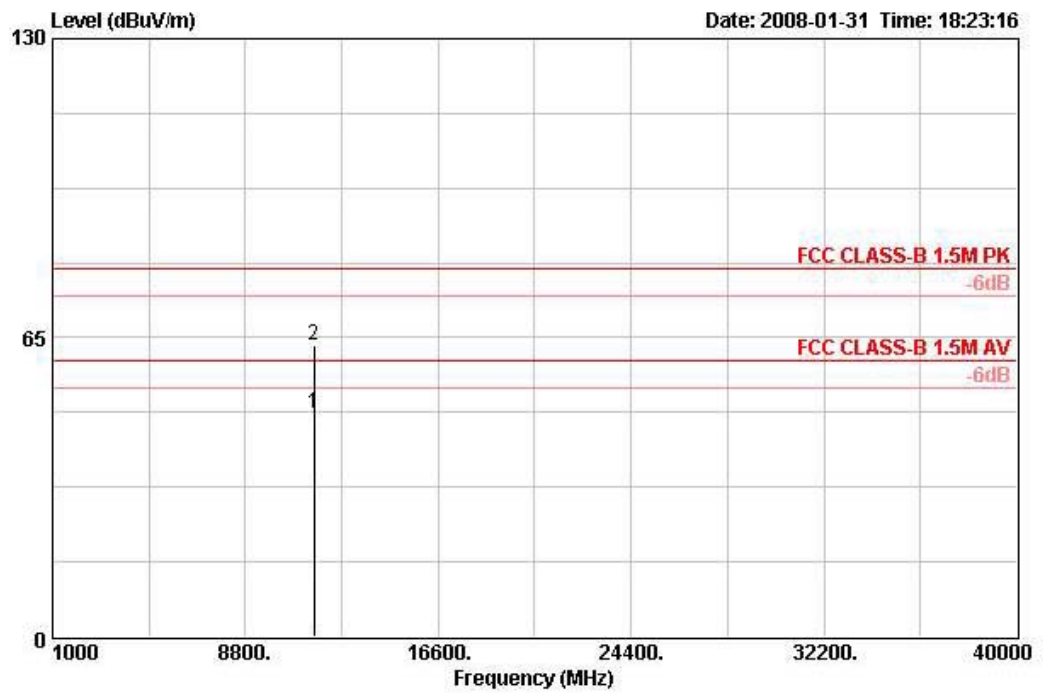
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11489.900	69.85	-10.15	80.00	56.28	38.78	9.78	34.98	PEAK	122	94	VERTICAL
2 !	11490.720	55.43	-4.57	60.00	41.86	38.78	9.78	34.98	AVERAGE	122	94	VERTICAL

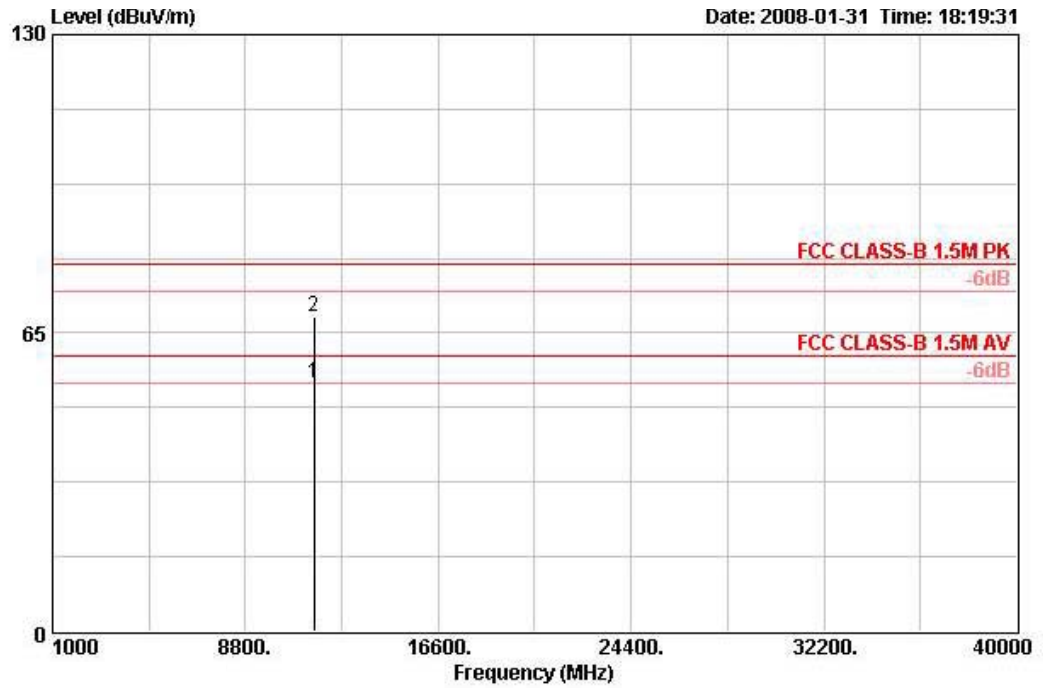
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 157 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11568.900	48.39	-11.61	60.00	34.76	38.83	9.79	35.00	AVERAGE	129	261	HORIZONTAL
2	11569.900	63.41	-16.59	80.00	49.79	38.83	9.80	35.00	PEAK	129	261	HORIZONTAL

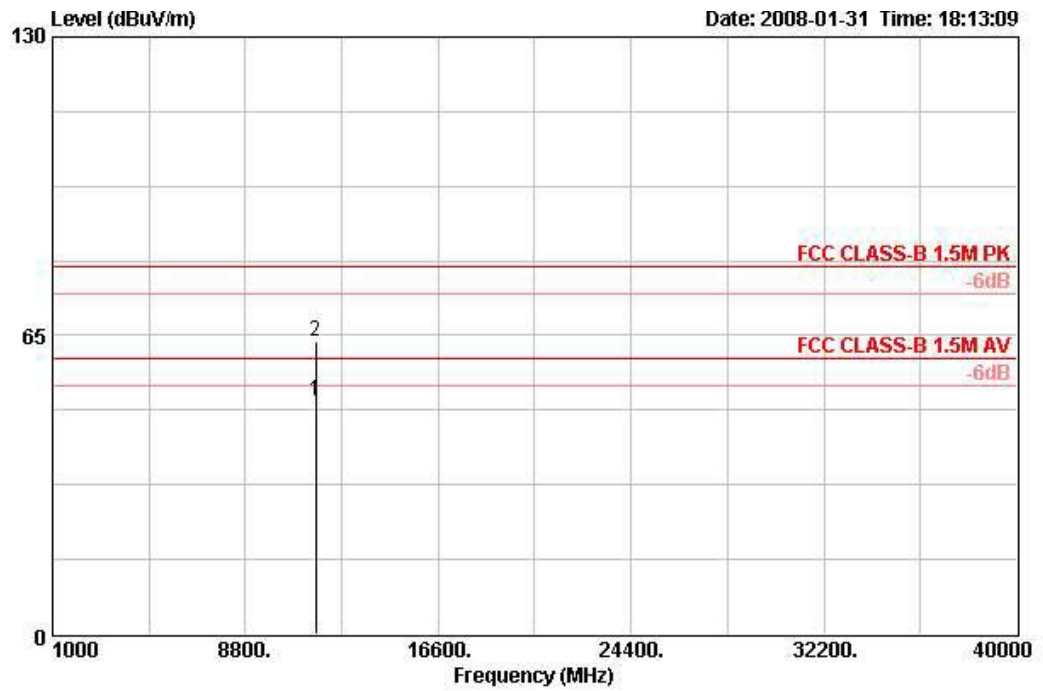
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11568.900	54.00	-6.00	60.00	40.38	38.83	9.79	35.00	AVERAGE	123	108	VERTICAL
2	11570.000	68.36	-11.64	80.00	54.74	38.83	9.80	35.00	PEAK	123	108	VERTICAL

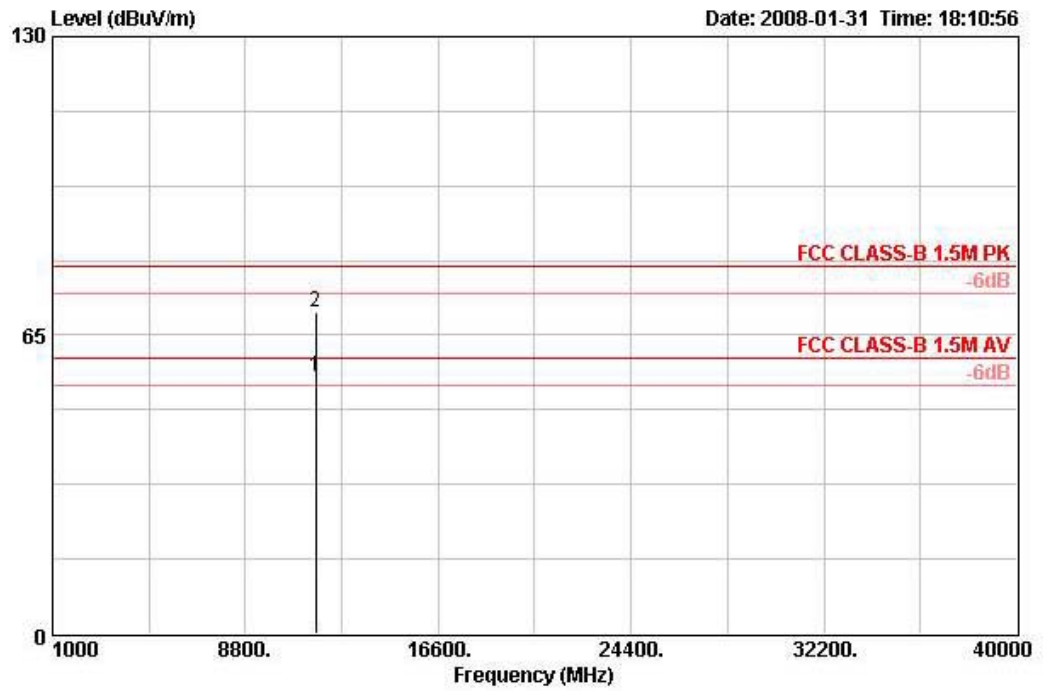
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 165 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11652.300	50.85	-9.15	60.00	37.17	38.86	9.82	35.01	AVERAGE	126	332	HORIZONTAL
2	11652.900	63.77	-16.23	80.00	50.09	38.86	9.82	35.01	PEAK	126	332	HORIZONTAL

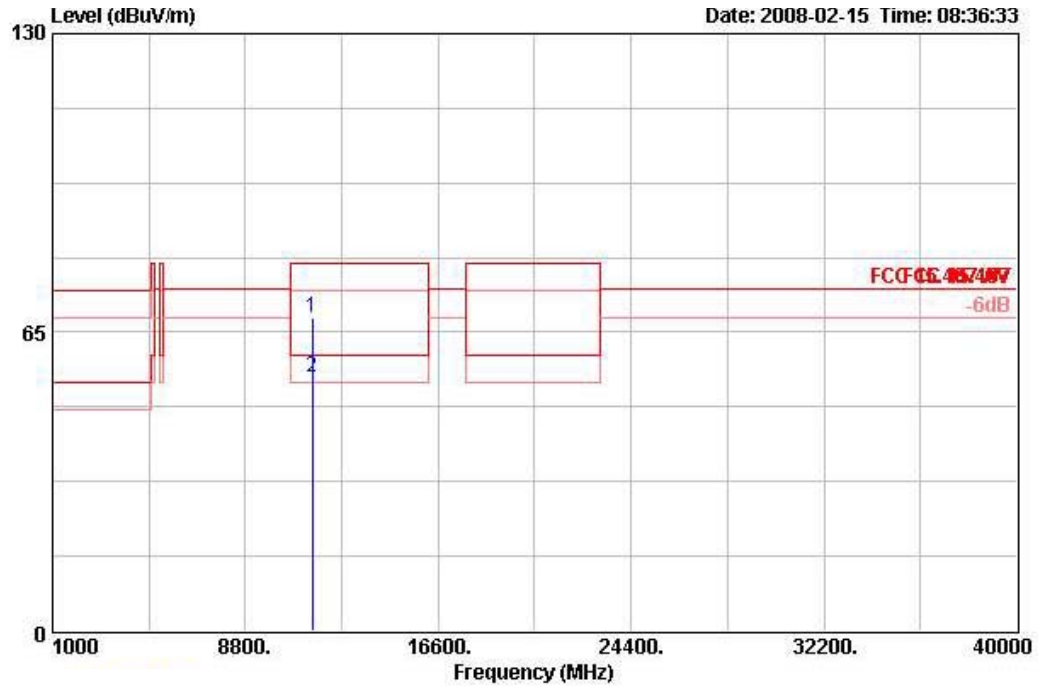
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 !	11649.900	55.76	-4.24	60.00	42.09	38.86	9.82	35.01	AVERAGE	128	107	VERTICAL
2	11650.000	69.94	-10.06	80.00	56.27	38.86	9.82	35.01	PEAK	128	107	VERTICAL

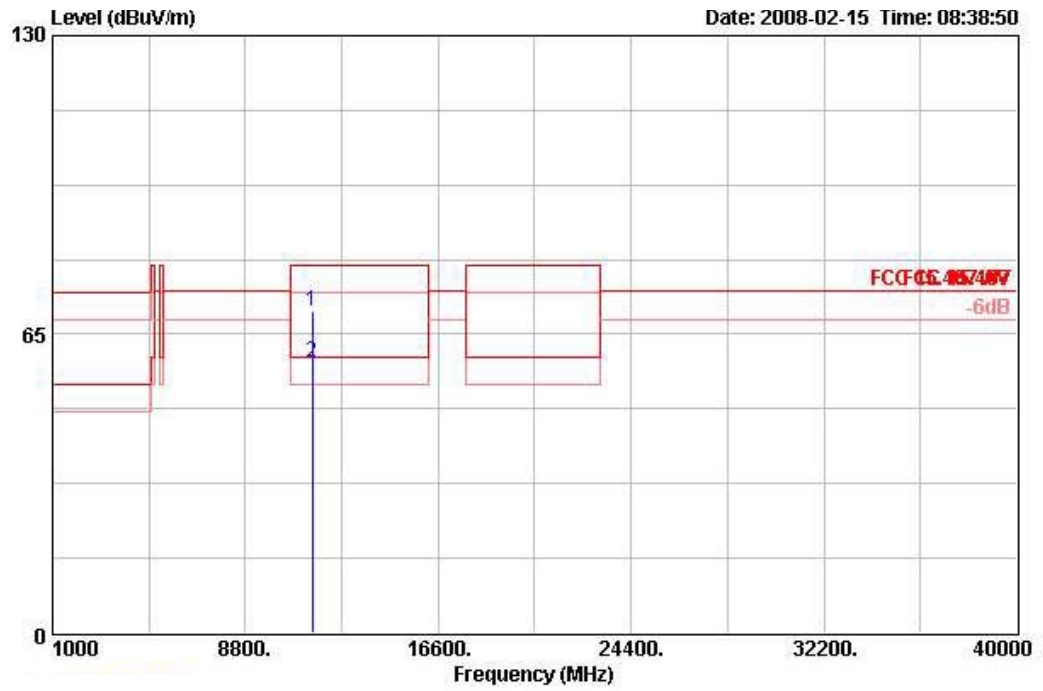
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 151 / Ant. A POE Mode (Horizontal)

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	11517.000	68.24	-11.76	80.00	52.96	39.10	34.75	10.93	PEAK	133	100	HORIZONTAL
2	11517.900	55.14	-4.86	60.00	39.86	39.10	34.75	10.93	AVERAGE	133	100	HORIZONTAL

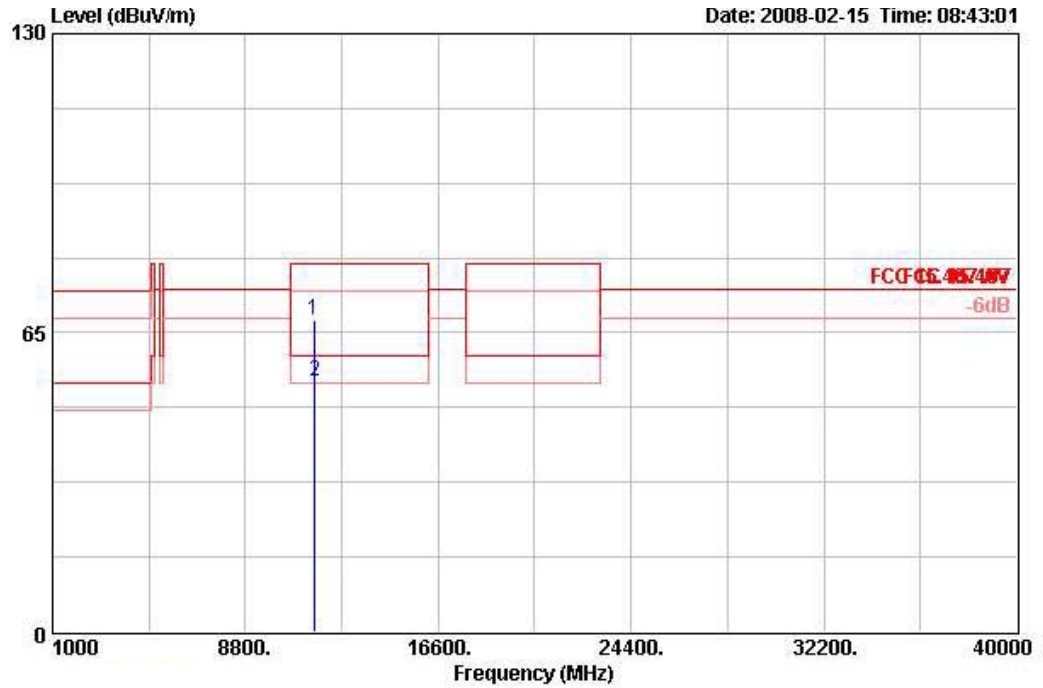
Vertical



	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	
1	11512.000	70.04	-9.96	80.00	54.76	39.10	34.75	10.93	PEAK	219	100	VERTICAL
2	11512.400	58.96	-1.04	60.00	43.68	39.10	34.75	10.93	AVERAGE	219	100	VERTICAL

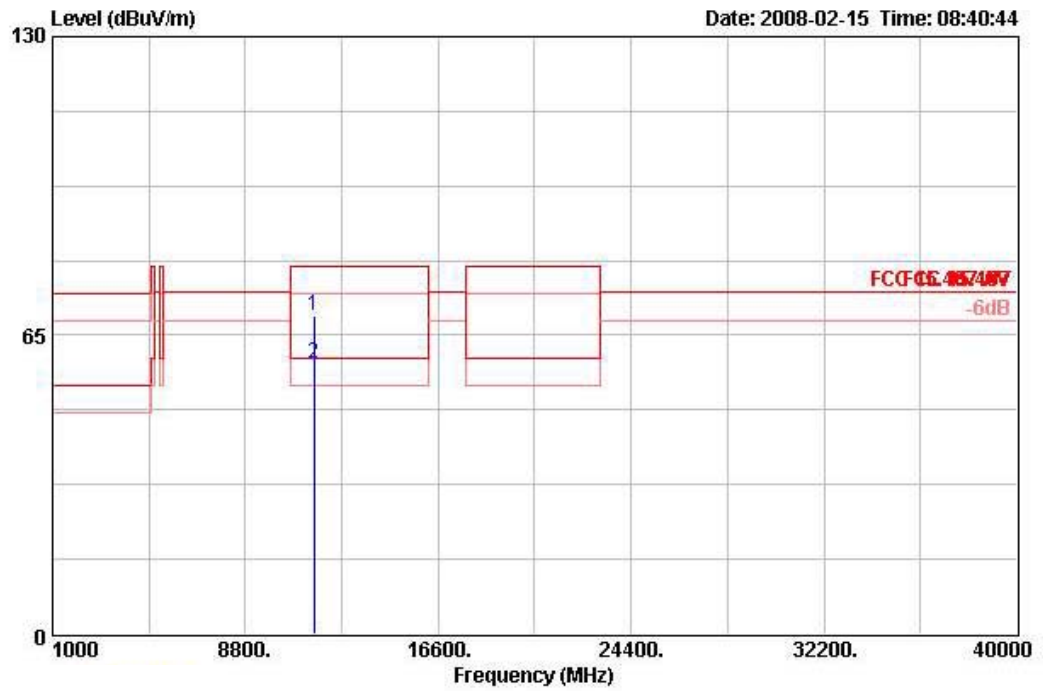
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 159 / Ant. A POE Mode (Horizontal)

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	11577.700	67.86	-12.14	80.00	52.75	39.10	34.82	10.83	PEAK	156	100	HORIZONTAL
2	11597.700	54.50	-5.50	60.00	39.46	39.10	34.85	10.79	AVERAGE	156	100	HORIZONTAL

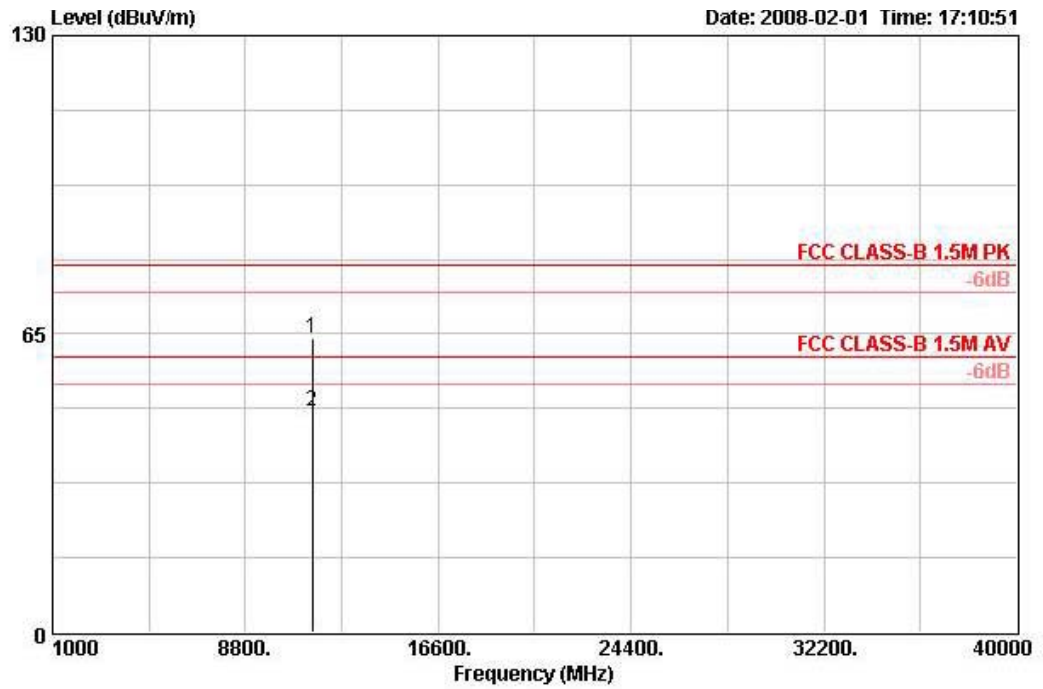
Vertical



	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	
1	11590.500	69.18	-10.82	80.00	54.08	39.10	34.82	10.83	PEAK	221	100	VERTICAL
2	11591.400	58.84	-1.16	60.00	43.74	39.10	34.82	10.83	AVERAGE	221	100	VERTICAL

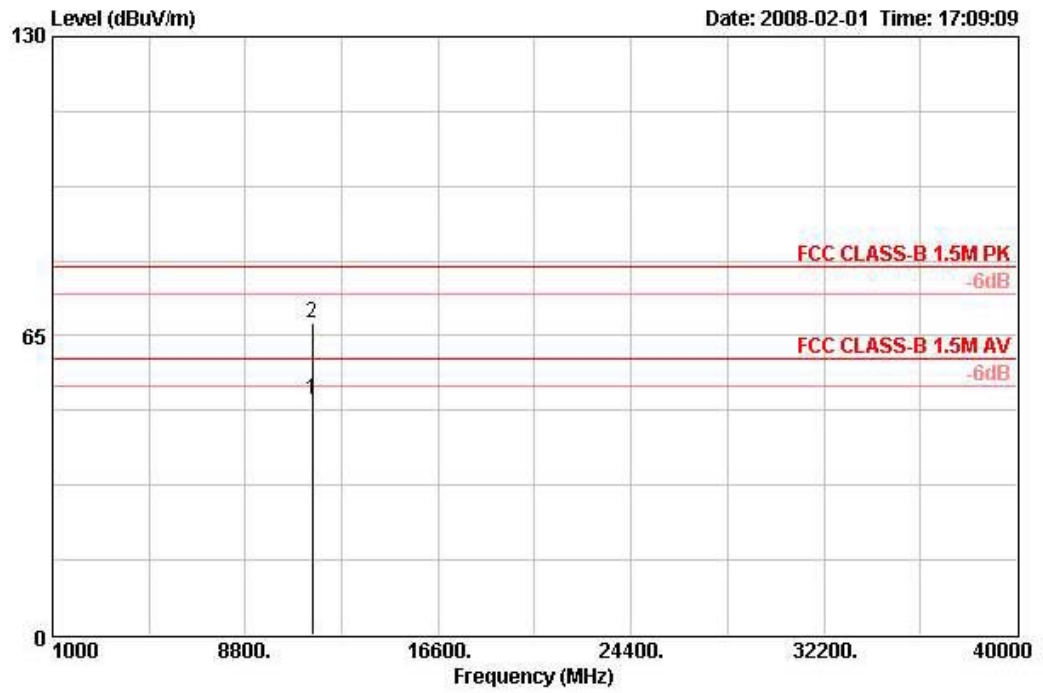
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 151 / Ant. B POE Mode (Horizontal)

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	11509.960	64.07	-15.93	80.00	50.49	38.80	9.78	35.00	PEAK	124	281	HORIZONTAL
2	11510.450	48.10	-11.90	60.00	34.52	38.80	9.78	35.00	AVERAGE	124	281	HORIZONTAL

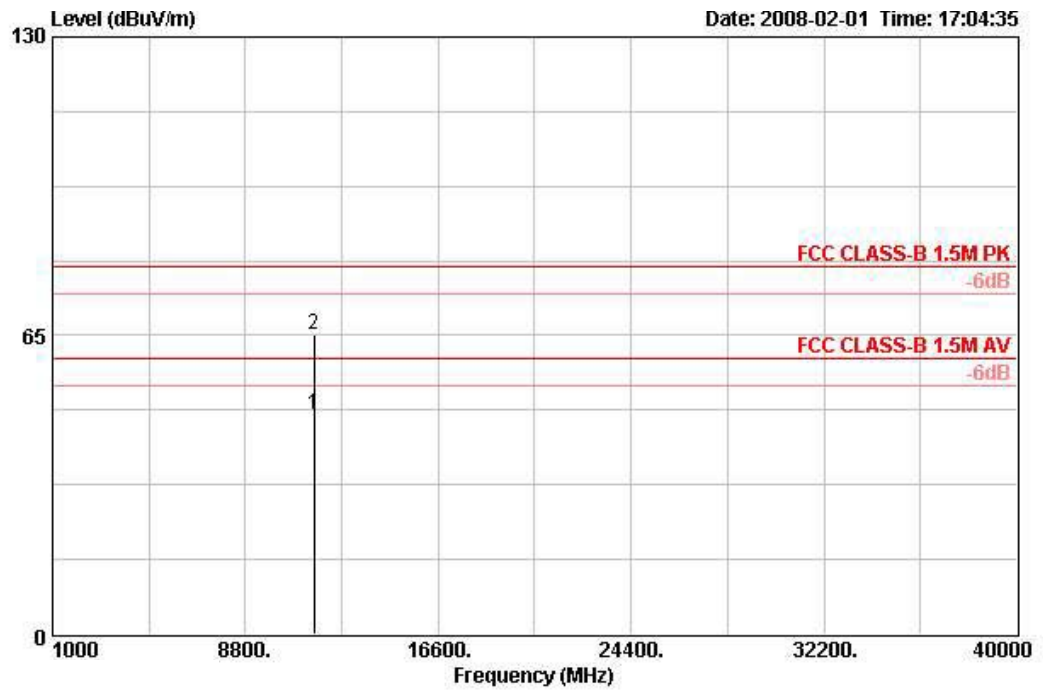
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11509.570	50.94	-9.06	60.00	37.36	38.80	9.78	35.00	AVERAGE	121	92	VERTICAL
2	11509.900	67.94	-12.06	80.00	54.35	38.80	9.78	35.00	PEAK	121	92	VERTICAL

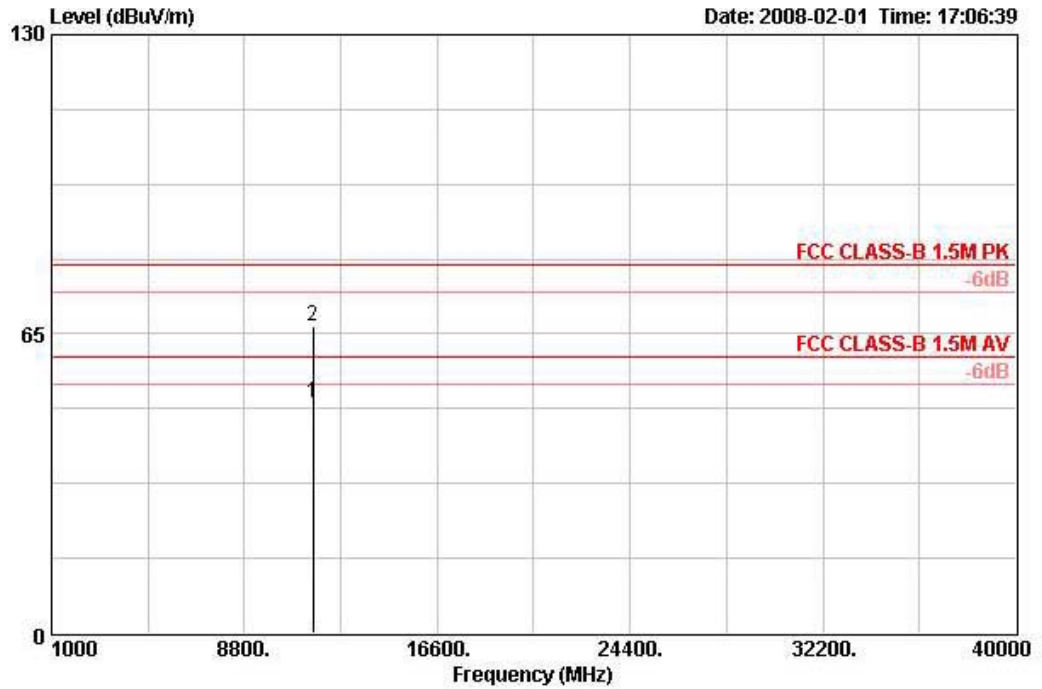
Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 159 / Ant. B POE Mode (Horizontal)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	11589.370	47.92	-12.08	60.00	34.28	38.83	9.80	35.00	AVERAGE	133	113	HORIZONTAL
2	11589.750	65.18	-14.82	80.00	51.55	38.83	9.80	35.00	PEAK	133	113	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	11589.370	50.17	-9.83	60.00	36.53	38.83	9.80	35.00	AVERAGE	121	94	VERTICAL
2	11589.940	66.83	-13.17	80.00	53.20	38.83	9.80	35.00	PEAK	121	94	VERTICAL

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB 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.

4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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 (micovolts/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

4.6.2. 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)	1 MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.6.3. Test Procedures

1. The test procedure is the same as section 4.5.3, 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.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 1, 6, 11 / Ant. A POE Mode (Horizontal)

Channel 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	2389.800	67.38	-6.62	74.00	33.49	28.05	5.84	0.00	PEAK	100	80	VERTICAL
2 !	2390.000	52.60	-1.40	54.00	18.71	28.05	5.84	0.00	AVERAGE	100	1	VERTICAL
3 over	2404.000	104.69			70.76	28.09	5.84	0.00	PEAK	100	80	VERTICAL
4 @	2407.400	95.20			61.27	28.09	5.84	0.00	AVERAGE	100	80	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	2437.800	111.65			77.61	28.18	5.87	0.00	PEAK	100	142	VERTICAL
2 @	2440.200	101.77			67.72	28.18	5.87	0.00	AVERAGE	100	142	VERTICAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Channel 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 @	2460.000	97.31			63.18	28.22	5.91	0.00	AVERAGE	100	215	VERTICAL
2 over	2468.000	108.80			74.64	28.22	5.94	0.00	PEAK	100	215	VERTICAL
3 !	2483.500	52.95	-1.05	54.00	18.75	28.26	5.94	0.00	AVERAGE	100	215	VERTICAL
4 !	2484.100	69.24	-4.76	74.00	35.04	28.26	5.94	0.00	PEAK	100	215	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz Ch 1, 6, 11 / Ant. B POE Mode (Horizontal)

Channel 1

	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 @	2389.600	70.51	-3.49	74.00	36.66	28.05	5.80	0.00	PEAK	100	81	VERTICAL
2 @	2390.000	52.97	-1.03	54.00	19.08	28.05	5.84	0.00	AVERAGE	100	81	VERTICAL
3 @	2406.600	109.58			75.65	28.09	5.84	0.00	PEAK	100	81	VERTICAL
4 @	2408.400	97.46			63.53	28.09	5.84	0.00	AVERAGE	100	81	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

	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 @	2438.000	114.64			80.60	28.18	5.87	0.00	PEAK	100	266	VERTICAL
2 @	2438.200	103.82			69.77	28.18	5.87	0.00	AVERAGE	100	266	VERTICAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Channel 11

	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 @	2460.000	111.86			77.74	28.22	5.91	0.00	PEAK	100	264	VERTICAL
2 @	2463.600	100.13			66.00	28.22	5.91	0.00	AVERAGE	100	264	VERTICAL
3 @	2483.500	53.51	-0.49	54.00	19.31	28.26	5.94	0.00	AVERAGE	100	264	VERTICAL
4 @	2483.500	72.19	-1.81	74.00	37.99	28.26	5.94	0.00	PEAK	100	264	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 3, 6, 9 / Ant. A POE Mode (Horizontal)

Channel 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 !	2386.400	70.78	-3.22	74.00	36.93	28.05	5.80	0.00	PEAK	100	280	VERTICAL
2 !	2390.000	53.98	-0.02	54.00	20.10	28.05	5.84	0.00	AVERAGE	100	280	VERTICAL
3 over	2418.000	102.73			68.77	28.09	5.87	0.00	PEAK	100	280	VERTICAL
4 @	2432.800	90.44			56.43	28.13	5.87	0.00	AVERAGE	100	280	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	2420.200	93.45			59.45	28.13	5.87	0.00	AVERAGE	148	104	VERTICAL
2 over	2420.200	104.33			70.33	28.13	5.87	0.00	PEAK	148	104	VERTICAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	2456.000	104.12			69.99	28.22	5.91	0.00	PEAK	100	100	VERTICAL
2 over	2458.800	92.01			57.89	28.22	5.91	0.00	AVERAGE	100	100	VERTICAL
3 !	2483.500	53.53	-0.47	54.00	19.33	28.26	5.94	0.00	AVERAGE	100	100	VERTICAL
4 !	2489.500	70.39	-3.61	74.00	36.14	28.30	5.94	0.00	PEAK	100	100	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz Ch 3, 6, 9 / Ant. B POE Mode (Horizontal)

Channel 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 @	2389.200	69.27	-4.73	74.00	35.42	28.05	5.80	0.00	PEAK	100	97	VERTICAL
2 @	2390.000	53.27	-0.73	54.00	19.38	28.05	5.84	0.00	AVERAGE	100	97	VERTICAL
3 @	2405.600	91.60			57.67	28.09	5.84	0.00	AVERAGE	100	97	VERTICAL
4 @	2411.200	103.79			69.86	28.09	5.84	0.00	PEAK	100	97	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 @	2447.400	96.22			62.14	28.18	5.91	0.00	AVERAGE	100	265	VERTICAL
2 @	2454.200	105.79			71.67	28.22	5.91	0.00	PEAK	100	265	VERTICAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Channel 9

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 @	2446.000	105.92			71.84	28.18	5.91	0.00	PEAK	100	263	VERTICAL
2 @	2463.600	94.17			60.05	28.22	5.91	0.00	AVERAGE	100	263	VERTICAL
3 @	2483.500	52.97	-1.03	54.00	18.77	28.26	5.94	0.00	AVERAGE	100	263	VERTICAL
4 @	2489.500	69.78	-4.22	74.00	35.54	28.30	5.94	0.00	PEAK	100	263	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.



Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 149, 157, 165 / Ant. A POE Mode (Horizontal)

Channel 149

	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 @	5740.600	128.34			88.08	34.89	5.37	0.00	PEAK	100	0	VERTICAL
2 @	5743.600	116.13			75.87	34.89	5.37	0.00	AVERAGE	100	0	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	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 @	5783.600	115.70			75.39	34.92	5.39	0.00	AVERAGE	100	0	VERTICAL
2 @	5784.000	127.61			87.30	34.92	5.39	0.00	PEAK	100	0	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5823.200	126.04			85.68	34.96	5.40	0.00	PEAK	100	0	VERTICAL
2 @	5824.200	114.84			74.47	34.96	5.40	0.00	AVERAGE	100	0	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 20MHz CH 149, 157, 165 / Ant. B POE Mode (Horizontal)

Channel 149

	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	5742.000	125.89			84.71	34.35	6.84	0.00	PEAK	116	234	VERTICAL
2 @	5746.400	113.11			71.93	34.35	6.84	0.00	AVERAGE	116	234	VERTICAL

Item 1, 2 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5779.400	125.53			84.33	34.36	6.85	0.00	PEAK	111	240	VERTICAL
2 @	5782.000	113.10			71.88	34.36	6.86	0.00	AVERAGE	111	240	VERTICAL

Item 1, 2 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5823.400	113.29			72.05	34.37	6.88	0.00	PEAK	114	241	VERTICAL
2 over	5823.800	111.35			70.11	34.37	6.88	0.00	AVERAGE	114	241	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note:

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

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



Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 151, 159 / Ant. A POE Mode (Horizontal)

Channel 151

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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 @	5758.600	112.57			72.28	34.91	5.38	0.00	AVERAGE	100	2	VERTICAL
2 @	5769.400	126.21			85.91	34.92	5.38	0.00	PEAK	100	2	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	5783.800	123.74			83.43	34.92	5.39	0.00	PEAK	100	15	VERTICAL
2 @	5784.600	112.41			72.10	34.92	5.39	0.00	AVERAGE	100	15	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

Temperature	18°C	Humidity	63%
Test Engineer	Aric Li	Configurations	Draft n MCS16 40MHz CH 151, 159 / Ant. B POE Mode (Horizontal)

Channel 151

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	5746.600	123.16			81.98	34.35	6.84	0.00	PEAK	134	231	VERTICAL
2 over	5751.800	110.19			69.00	34.35	6.84	0.00	AVERAGE	134	231	VERTICAL

Item 1, 2 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	5785.400	109.99			68.77	34.36	6.86	0.00	AVERAGE	136	230	VERTICAL
2 over	5790.600	123.47			82.25	34.36	6.86	0.00	PEAK	136	230	VERTICAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

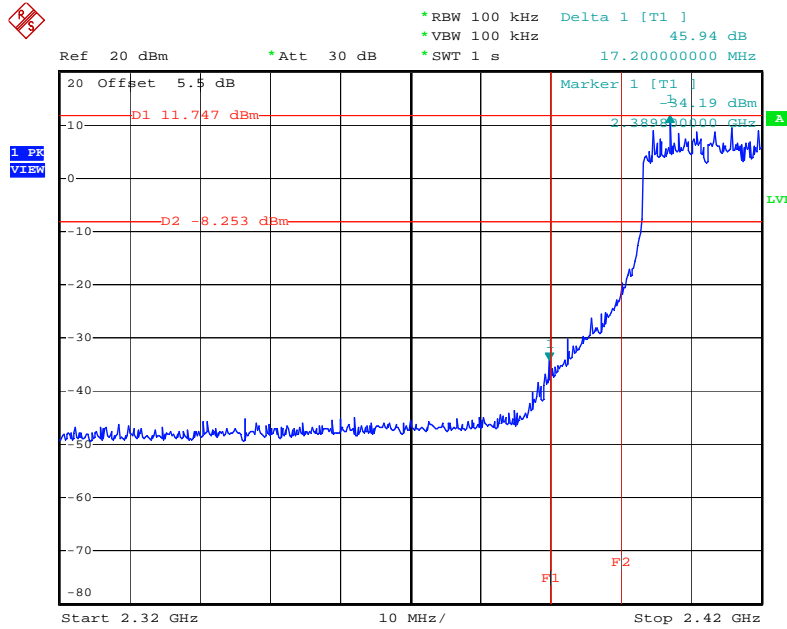
Note:

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

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

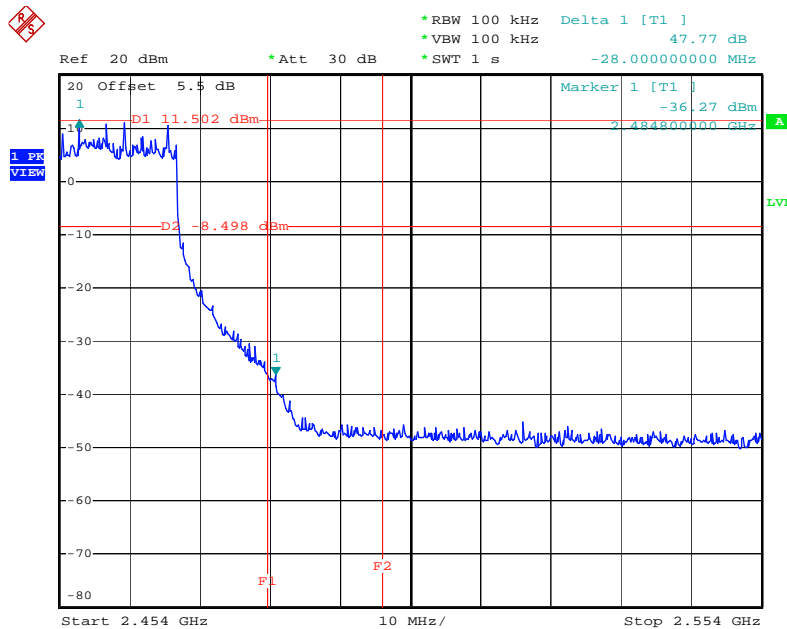
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. A-1+A-2+A-3 / 2412 MHz



Date: 25.FEB.2008 06:25:25

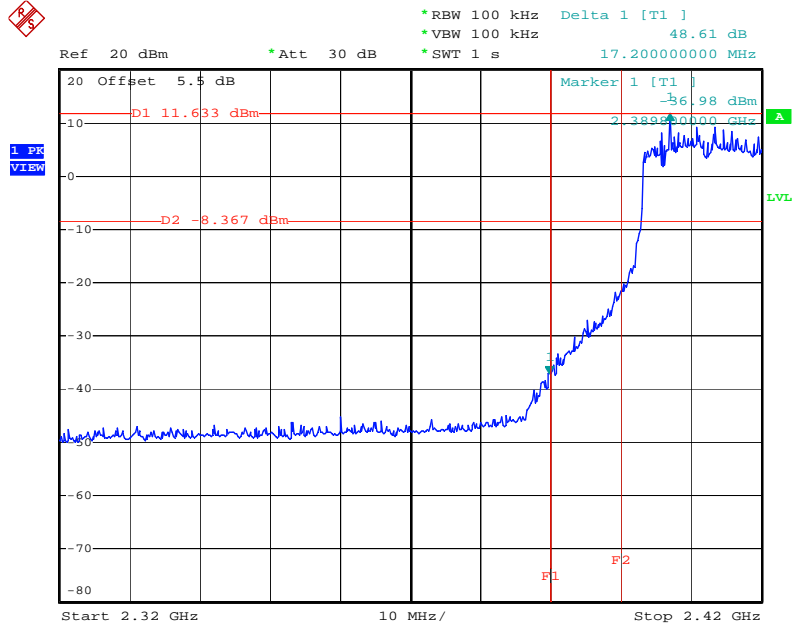
High Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. A-1+A-2+A-3 / 2462 MHz



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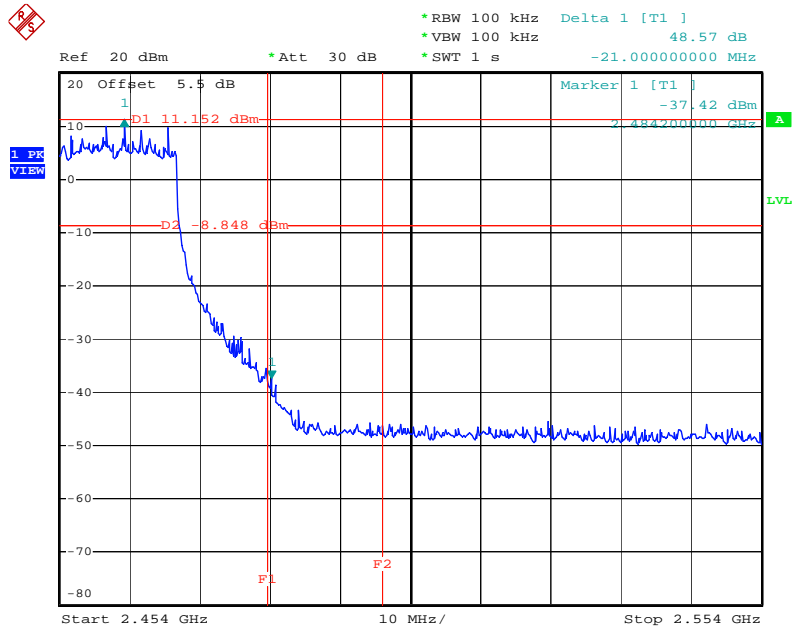
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. B-1+B-2+B-3 / 2412 MHz



Date: 25.FEB.2008 06:59:43

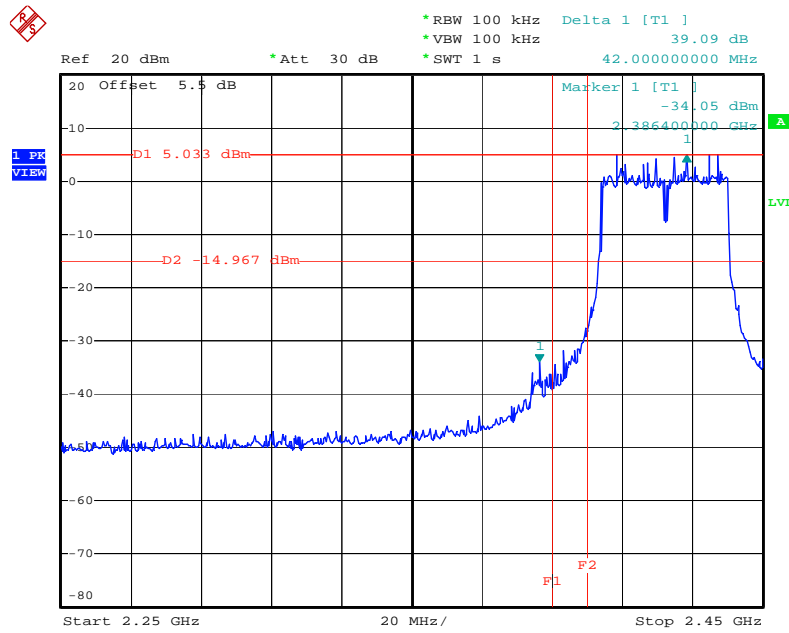
High Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. B-1+B-2+B-3 / 2462 MHz



Date: 25.FEB.2008 04:05:54

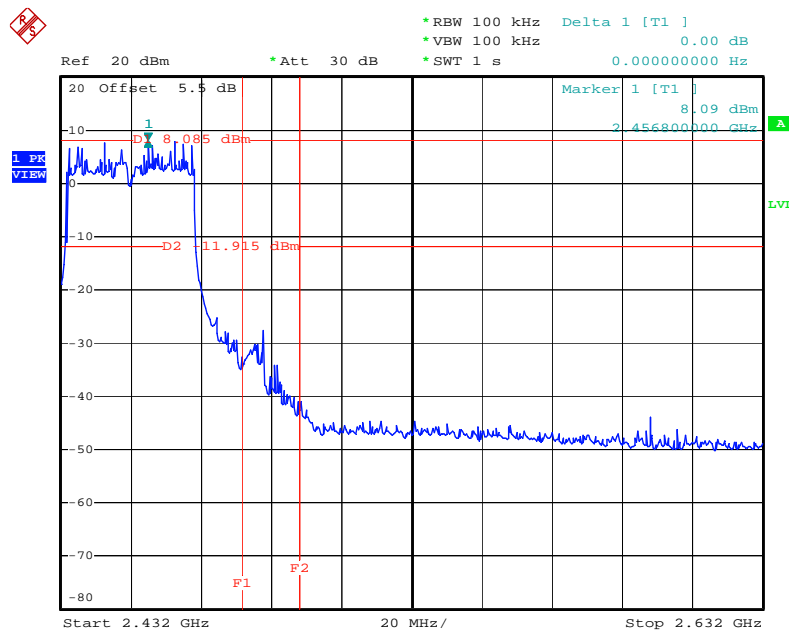
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS16 40MHz Ant. A-1+A-2+A-3 / 2422 MHz



Date: 25.FEB.2008 06:34:55

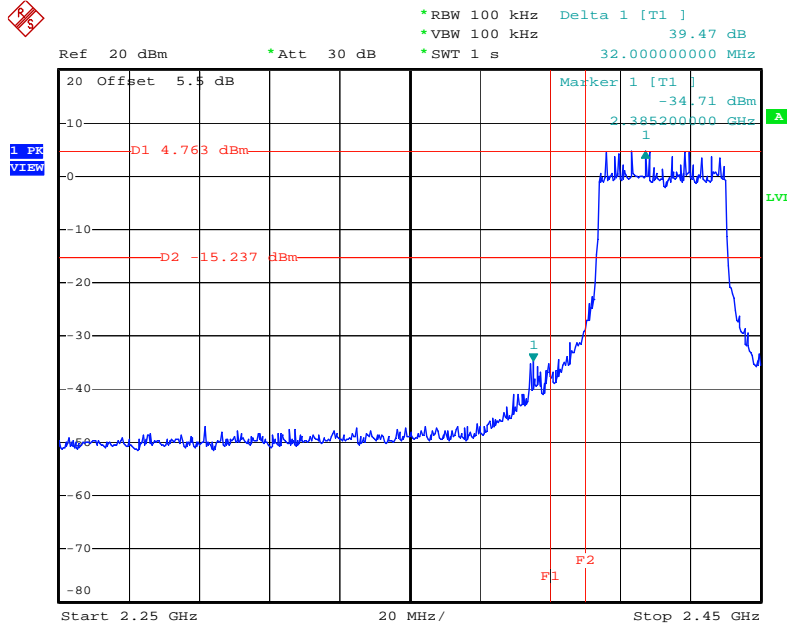
High Band Edge Plot on Configuration Draft n MCS16 40MHz Ant. A-1+A-2+A-3 / 2452 MHz



Date: 19.FEB.2008 15:33:53

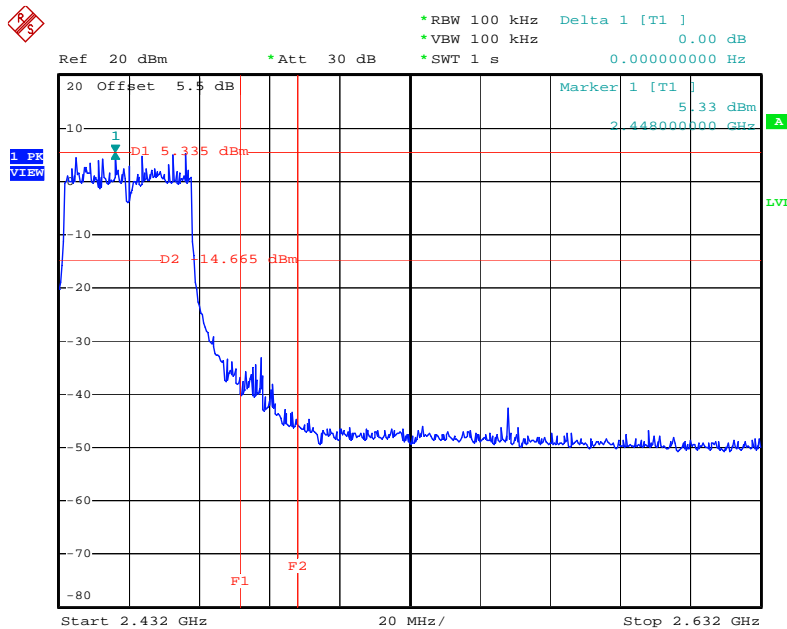
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 2422 MHz



Date: 25.FEB.2008 04:07:48

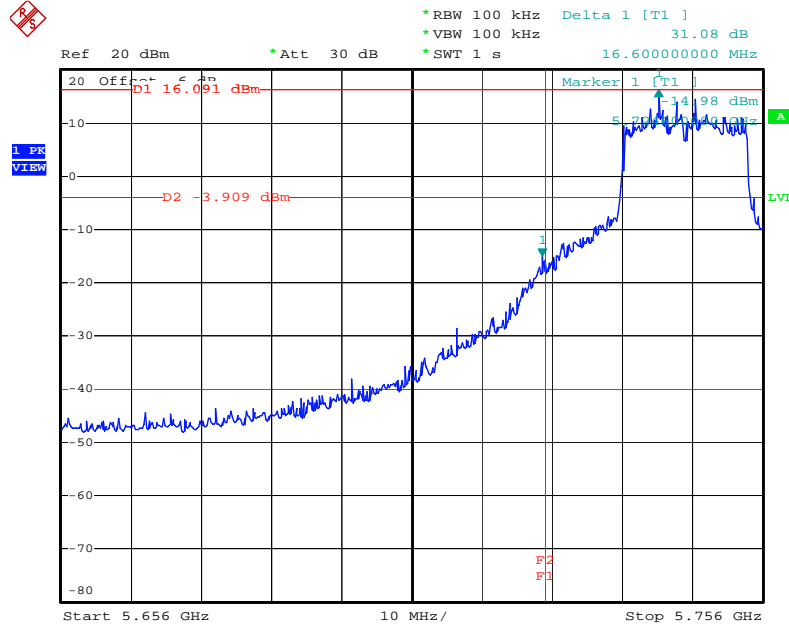
High Band Edge Plot on Configuration Draft n MCS16 40MHz Ant. B-1+B-2+B-3 / 2452 MHz



Date: 25.FEB.2008 04:10:11

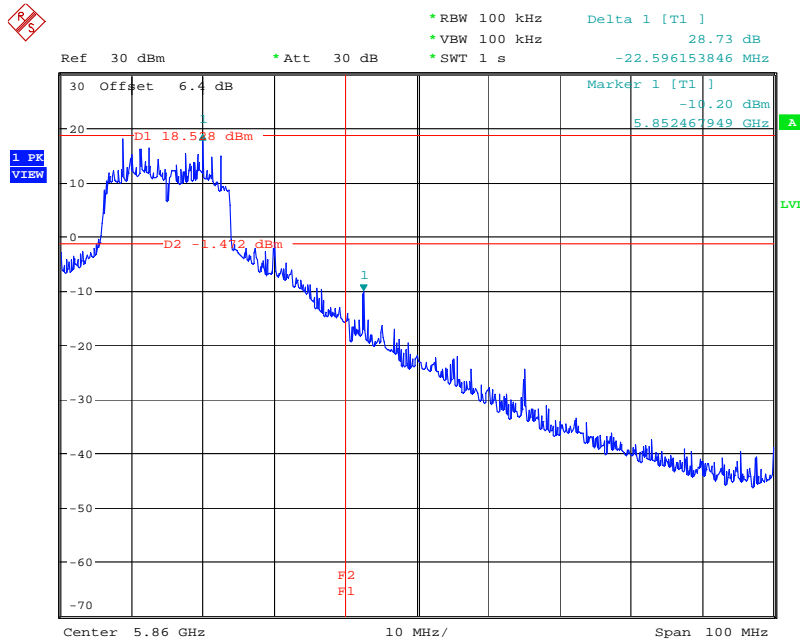
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. A-1+A-2+A-3 / 5745 MHz



Date: 19.FEB.2008 14:35:19

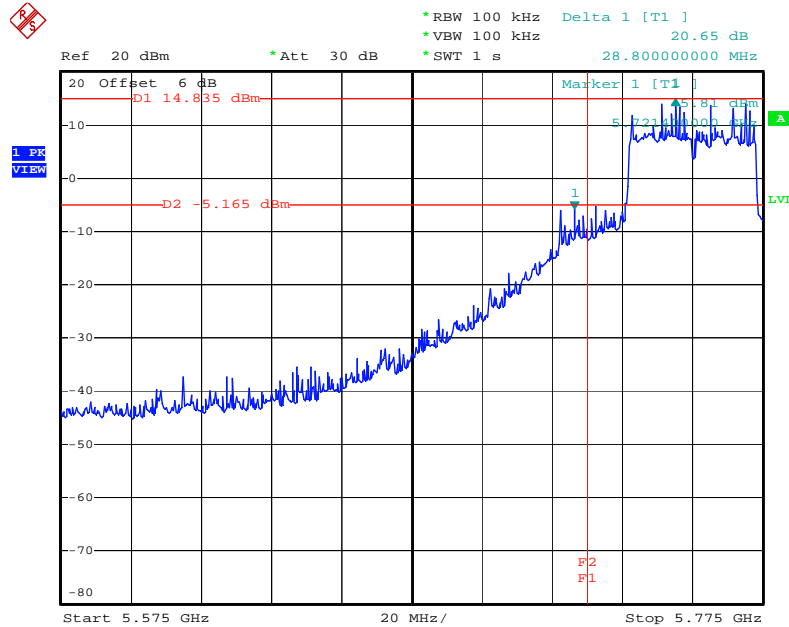
High Band Edge Plot on Configuration Drafft n MCS16 20MHz Ant. A-1+A-2+A-3 / 5825 MHz



Date: 24.MAR.2008 10:07:13

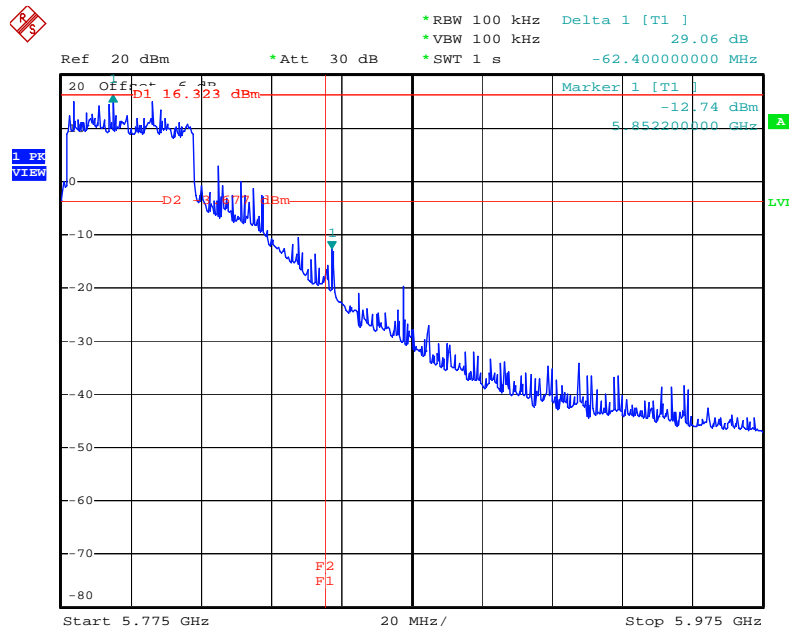
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS16 40MHz Ant. A-1+A-2+A-3 / 5755 MHz



Date: 19.FEB.2008 14:54:20

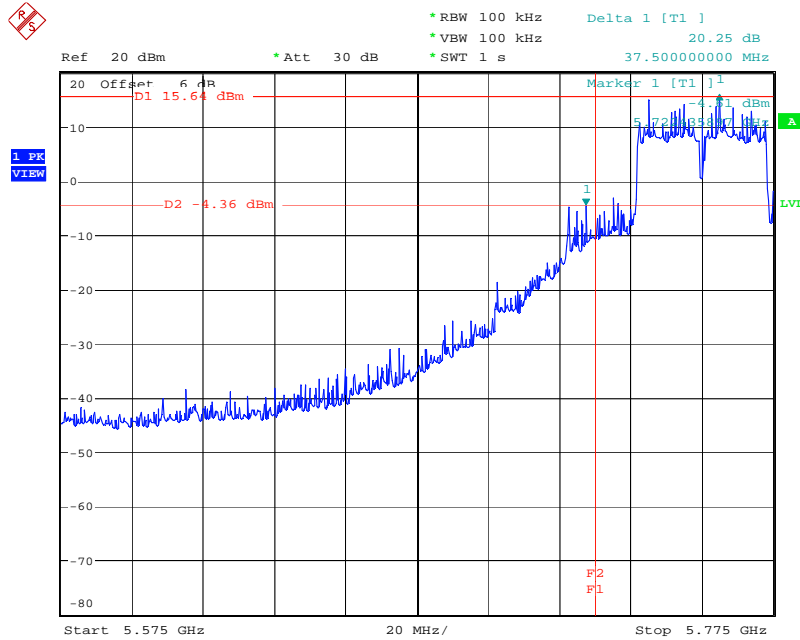
High Band Edge Plot on Configuration Drafft n MCS16 40MHz Ant. A-1+A-2+A-3 / 5795 MHz



Date: 19.FEB.2008 14:59:11

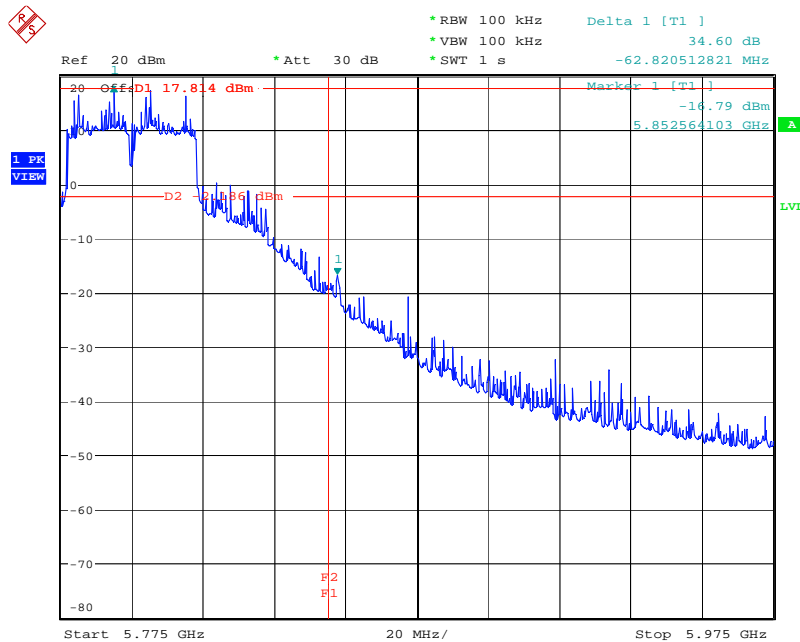
For Emission not in Restricted Band

Low Band Edge Plot on Configuration Drafft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5755 MHz



Date: 12.FEB.2008 16:06:58

High Band Edge Plot on Configuration Drafft n MCS16 40MHz Ant. B-1+B-2+B-3 / 5795 MHz



Date: 12.FEB.2008 17:04:07

4.7. Antenna Requirements

4.7.1. 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.

4.7.2. 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 2 nd 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

P1, total 9 pages

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