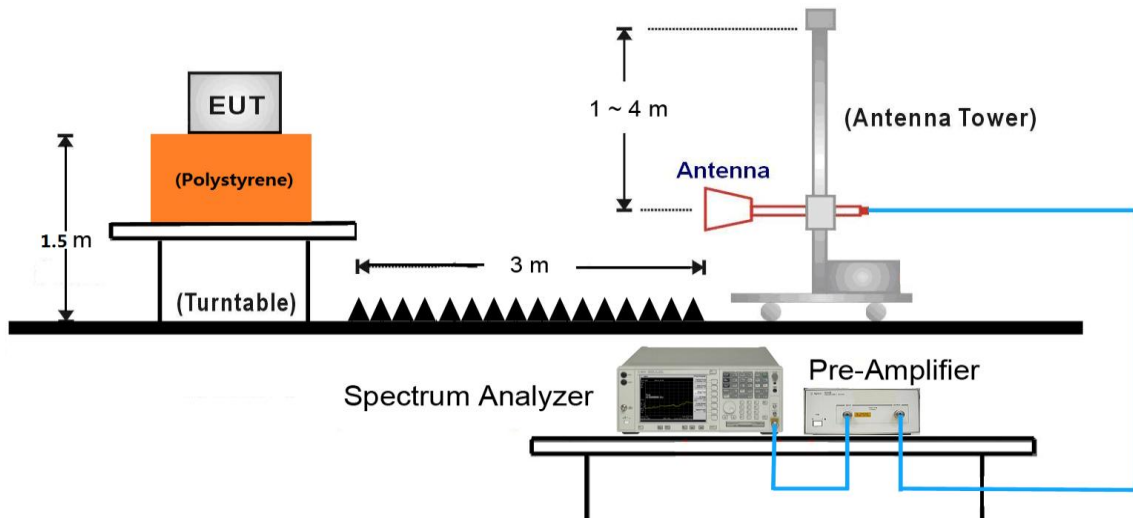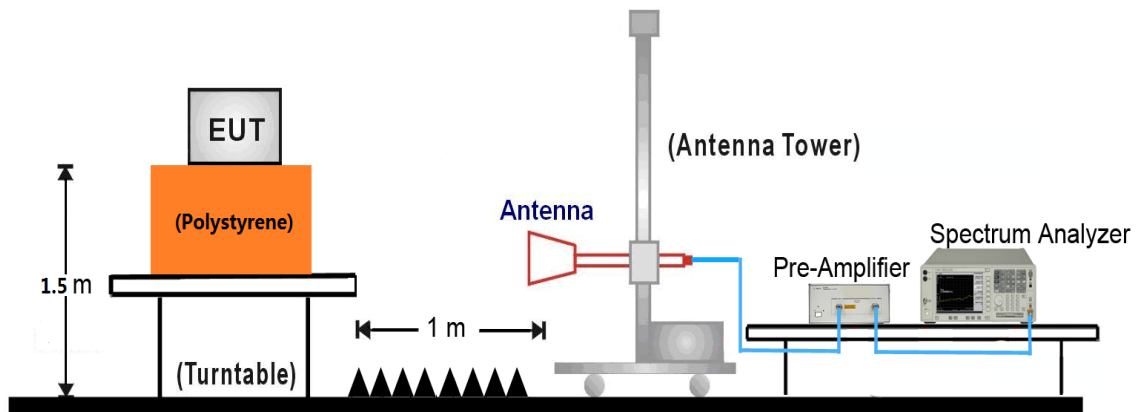1GHz ~ 18GHz Test Setup:

18GHz ~25GHz Test Setup:

7.6.5. Test Result

Remark: There are the ambient noise within frequency range 9 kHz ~ 30 MHz and 18GHz ~ 25GHz, the permissible value is not show in the report.

Test Mode:	802.11b		Test Site:	AC1
Test Channel:	01		Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.			

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	7239.0	38.2	7.8	46.0	77.9	-31.9	Peak	Horizontal
*	8854.0	33.9	9.1	43.0	77.9	-34.9	Peak	Horizontal
	9338.5	34.5	10.4	44.9	74.0	-29.1	Peak	Horizontal
	10826.0	34.7	12.7	47.4	74.0	-26.6	Peak	Horizontal
*	5683.5	33.9	3.7	37.6	77.9	-40.3	Peak	Vertical
*	7876.5	34.3	8.4	42.7	77.9	-35.2	Peak	Vertical
	9177.0	33.8	10.0	43.8	74.0	-30.2	Peak	Vertical
	10826.0	33.1	12.7	45.8	74.0	-28.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.9dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	06	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	5479.5	34.9	3.5	38.4	77.8	-39.4	Peak	Horizontal
*	7077.5	35.6	7.3	42.9	77.8	-34.9	Peak	Horizontal
	8199.5	34.5	8.3	42.8	74.0	-31.2	Peak	Horizontal
	10826.0	34.0	12.7	46.7	74.0	-27.3	Peak	Horizontal
*	7137.0	35.7	7.7	43.4	77.8	-34.4	Peak	Vertical
*	8854.0	34.1	9.1	43.2	77.8	-34.6	Peak	Vertical
	9423.5	35.2	10.6	45.8	74.0	-28.2	Peak	Vertical
	10928.0	35.3	13.0	48.3	74.0	-25.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.8dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	11	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	3594.5	45.7	-0.6	45.1	76.1	-31.0	Peak	Horizontal
*	5632.5	34.9	3.6	38.5	76.1	-37.6	Peak	Horizontal
	7400.5	34.5	7.9	42.4	74.0	-31.6	Peak	Horizontal
	9398.0	35.0	10.5	45.5	74.0	-28.5	Peak	Horizontal
*	5335.0	34.8	3.0	37.8	76.1	-38.3	Peak	Vertical
*	6703.5	34.2	5.8	40.0	76.1	-36.1	Peak	Vertical
	9134.5	34.6	9.7	44.3	74.0	-29.7	Peak	Vertical
	11531.5	33.9	12.7	46.6	74.0	-27.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.1dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	01	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	5811.0	35.4	4.0	39.4	81.3	-41.9	Peak	Horizontal
*	7876.5	35.8	8.4	44.2	81.3	-37.1	Peak	Horizontal
	9381.0	35.1	10.5	45.6	74.0	-28.4	Peak	Horizontal
	11072.5	33.6	12.8	46.4	74.0	-27.6	Peak	Horizontal
*	6916.0	35.6	6.6	42.2	81.3	-39.1	Peak	Vertical
*	8582.0	35.0	8.6	43.6	81.3	-37.7	Peak	Vertical
	9338.5	35.0	10.4	45.4	74.0	-28.6	Peak	Vertical
	10783.5	34.3	12.6	46.9	74.0	-27.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.3dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	06	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	3552.0	45.3	-0.6	44.7	81.2	-36.5	Peak	Horizontal
*	5216.0	34.3	3.2	37.5	81.2	-43.7	Peak	Horizontal
	7570.5	35.2	8.2	43.4	74.0	-30.6	Peak	Horizontal
	10928.0	33.6	13.0	46.6	74.0	-27.4	Peak	Horizontal
*	5292.5	34.4	3.1	37.5	81.2	-43.7	Peak	Vertical
*	7910.5	34.9	8.4	43.3	81.2	-37.9	Peak	Vertical
	9381.0	35.2	10.5	45.7	74.0	-28.3	Peak	Vertical
	11225.5	33.5	12.4	45.9	74.0	-28.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.2dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11g		Test Site:	AC1
Test Channel:	11		Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.			

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	3594.5	45.2	-0.6	44.6	81.1	-36.5	Peak	Horizontal
*	5267.0	34.4	3.2	37.6	81.1	-43.5	Peak	Horizontal
	7366.5	34.4	7.9	42.3	74.0	-31.7	Peak	Horizontal
	10970.5	33.7	13.1	46.8	74.0	-27.2	Peak	Horizontal
*	5292.5	33.6	3.1	36.7	81.1	-44.4	Peak	Vertical
*	6797.0	34.8	6.0	40.8	81.1	-40.3	Peak	Vertical
	8429.0	34.1	8.2	42.3	74.0	-31.7	Peak	Vertical
	10826.0	35.3	12.7	48.0	74.0	-26.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.1dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	01	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	3518.0	43.2	-0.6	42.6	79.8	-37.2	Peak	Horizontal
*	5199.0	34.7	3.3	38.0	79.8	-41.8	Peak	Horizontal
	7366.5	33.9	7.9	41.8	74.0	-32.2	Peak	Horizontal
	10970.5	33.0	13.1	46.1	74.0	-27.9	Peak	Horizontal
*	5335.0	34.1	3.0	37.1	79.8	-42.7	Peak	Vertical
*	7910.5	34.4	8.4	42.8	79.8	-37.0	Peak	Vertical
	9466.0	34.3	10.5	44.8	74.0	-29.2	Peak	Vertical
	11378.5	33.5	12.6	46.1	74.0	-27.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.8dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	06	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

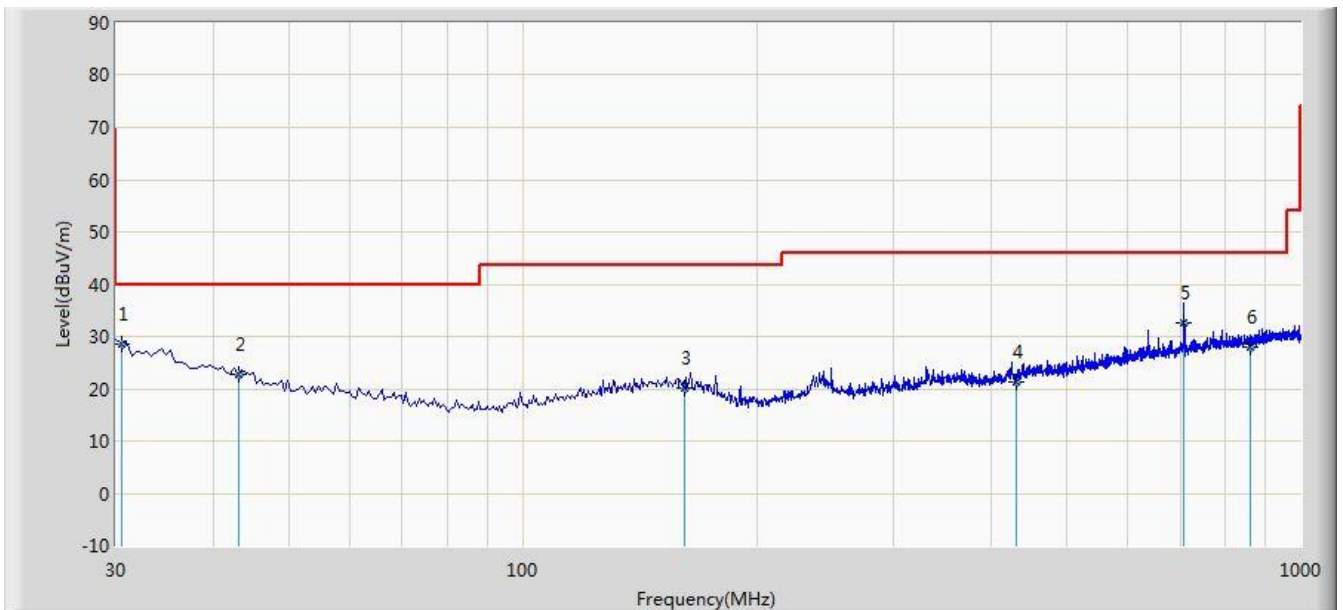| Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
*	3552.0	44.2	-0.6	43.6	79.7	-36.1	Peak	Horizontal
*	5505.0	35.3	3.5	38.8	79.7	-40.9	Peak	Horizontal
	7536.5	35.5	8.3	43.8	74.0	-30.2	Peak	Horizontal
	10783.5	33.0	12.6	45.6	74.0	-28.4	Peak	Horizontal
*	6049.0	34.5	4.1	38.6	79.7	-41.1	Peak	Vertical
*	7876.5	35.1	8.4	43.5	79.7	-36.2	Peak	Vertical
	9423.5	34.5	10.6	45.1	74.0	-28.9	Peak	Vertical
	11021.5	32.8	13.0	45.8	74.0	-28.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.7dBµV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	11	Test Engineer:	Bruce Wang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3594.5	45.3	-0.6	44.7	79.2	-34.5	Peak	Horizontal
*	5173.5	35.0	3.3	38.3	79.2	-40.9	Peak	Horizontal
	7298.5	34.9	8.0	42.9	74.0	-31.1	Peak	Horizontal
	9381.0	33.6	10.5	44.1	74.0	-29.9	Peak	Horizontal
*	6584.5	32.9	6.0	38.9	79.2	-40.3	Peak	Vertical
*	7808.5	34.2	8.4	42.6	79.2	-36.6	Peak	Vertical
	9338.5	33.5	10.4	43.9	74.0	-30.1	Peak	Vertical
	11327.5	33.1	12.5	45.6	74.0	-28.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The worst case of Radiated Emission below 1GHz:

| Site: AC1	Time: 2017/06/01 - 17:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Worse Case Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

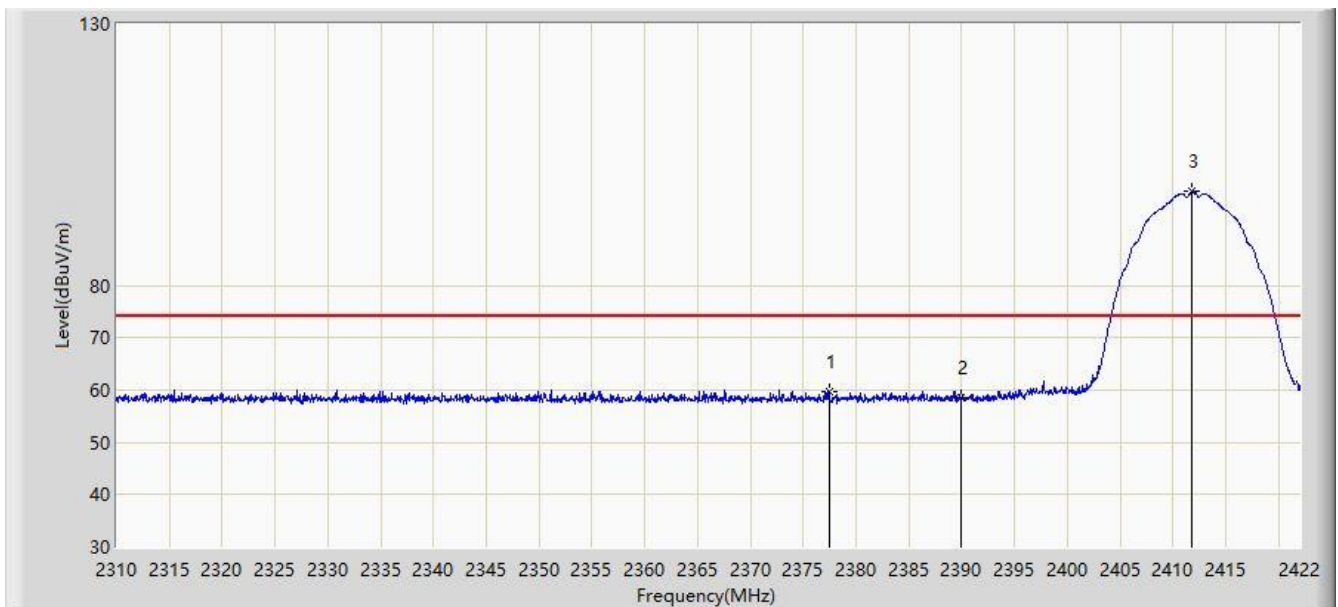| No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	30.485	28.519	14.890	-11.481	40.000	13.629	QP
2			43.095	22.744	8.432	-17.256	40.000	14.313	QP
3			161.435	20.270	5.207	-23.230	43.500	15.063	QP
4			430.125	21.419	4.098	-24.581	46.000	17.321	QP
5			708.030	32.550	10.431	-13.450	46.000	22.119	QP
6			861.290	27.999	4.202	-18.001	46.000	23.797	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/06/01 - 17:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Worse Case Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	
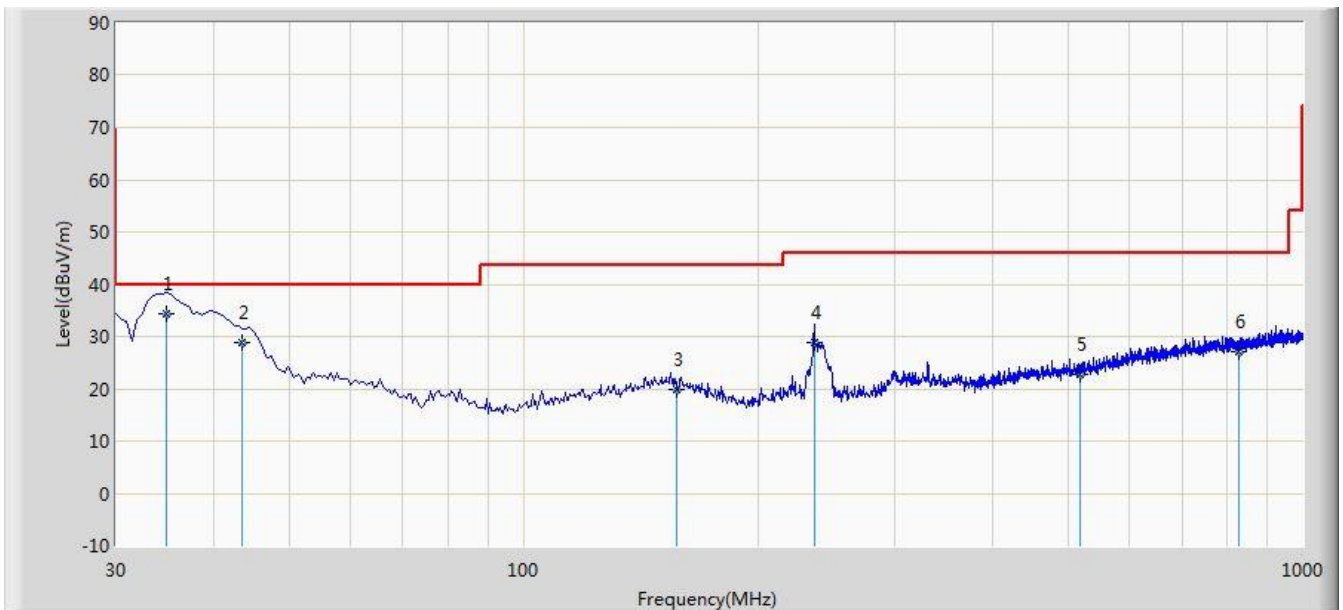
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	34.850	34.379	20.530	-5.621	40.000	13.849	QP
2			43.580	28.796	14.523	-11.204	40.000	14.273	QP
3			157.070	19.849	4.664	-23.651	43.500	15.185	QP
4			236.215	28.901	16.235	-17.099	46.000	12.666	QP
5			518.880	22.740	3.897	-23.260	46.000	18.843	QP
6			829.765	26.995	3.502	-19.005	46.000	23.493	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

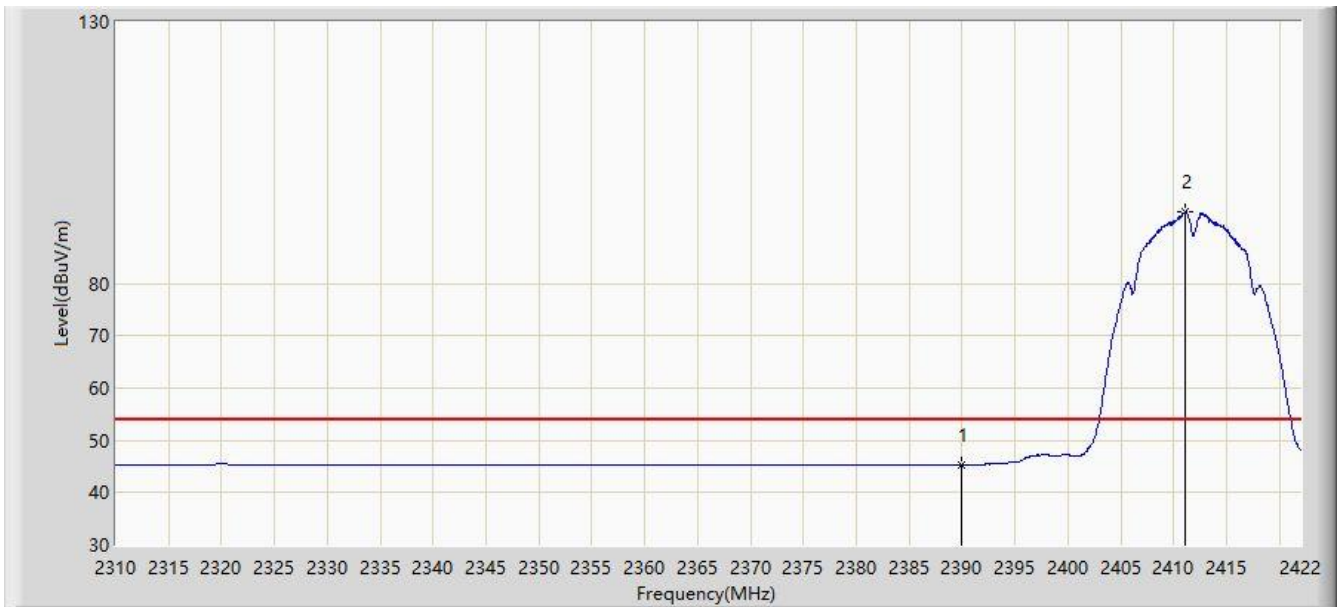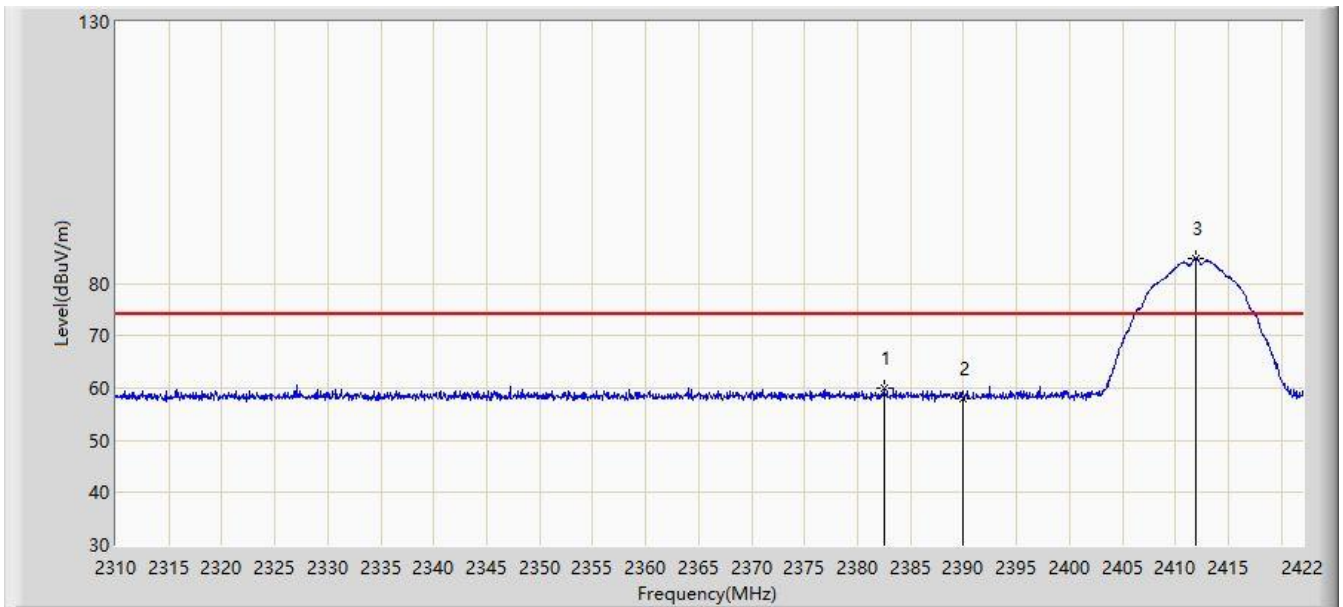|	
Site: AC1	Time: 2017/05/24 - 22:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2377.480	59.758	28.532	-14.242	74.000	31.225	PK
2			2390.000	58.496	27.293	-15.504	74.000	31.203	PK
3		*	2411.752	97.912	66.742	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

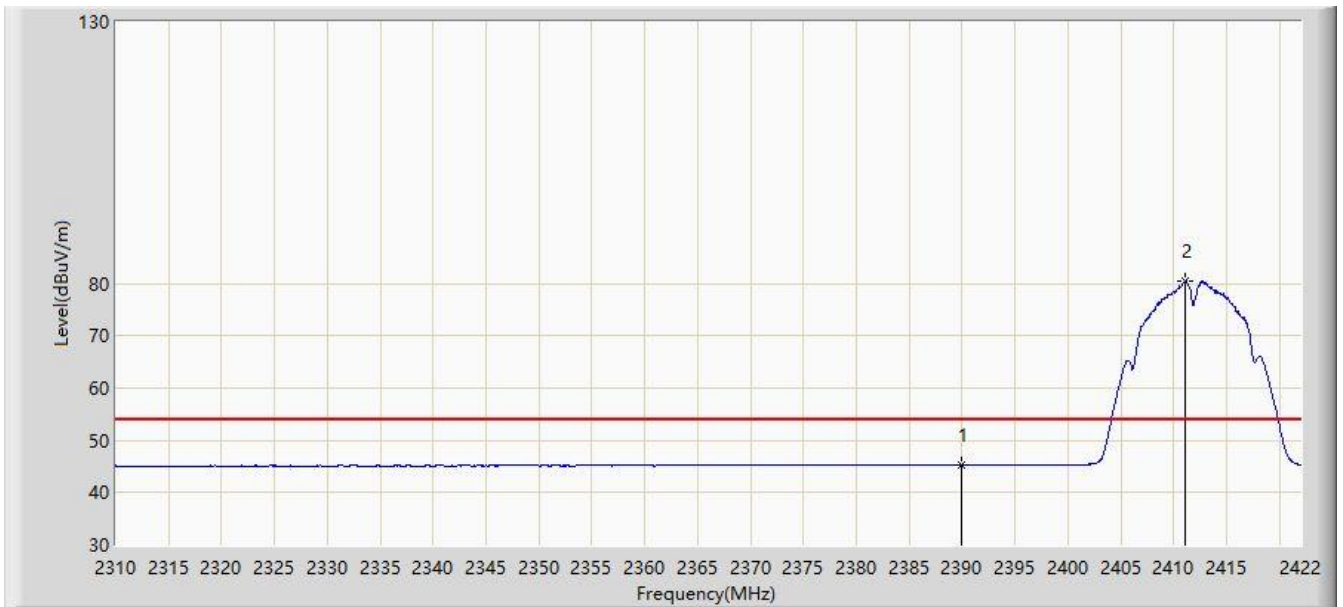| Site: AC1	Time: 2017/05/24 - 22:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.322	14.119	-8.678	54.000	31.203	AV
2		*	2411.024	93.666	62.495	N/A	N/A	31.171	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

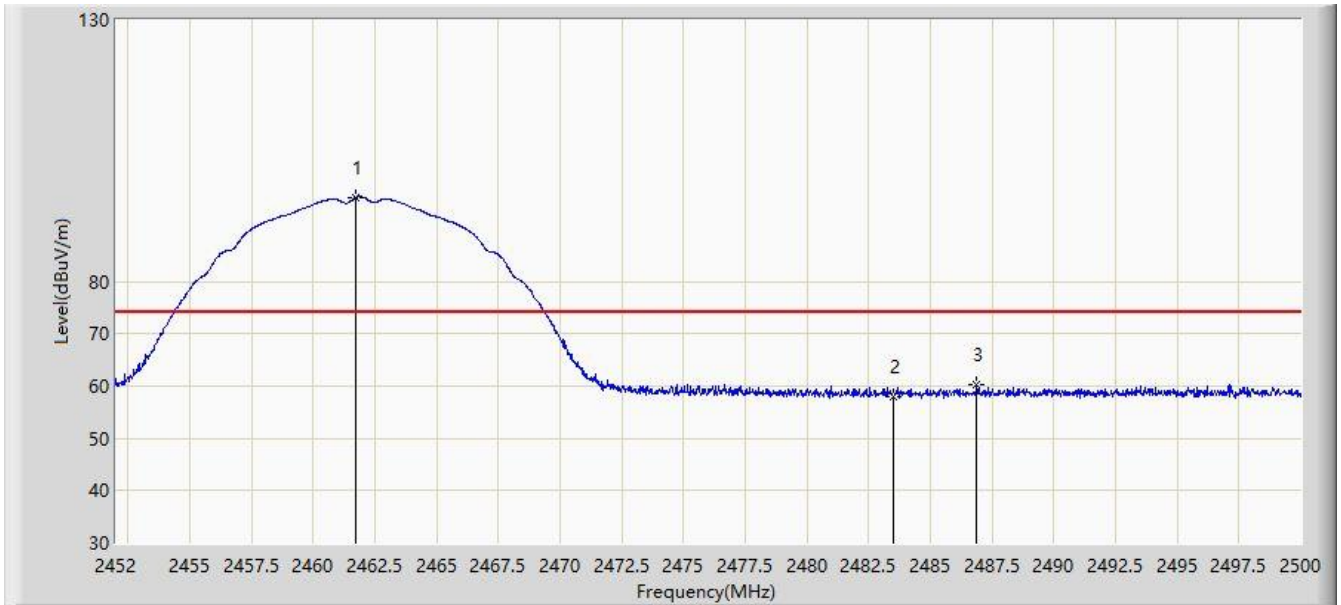| Site: AC1	Time: 2017/05/24 - 22:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2382.464	60.047	28.830	-13.953	74.000	31.216	PK
2			2390.000	57.988	26.785	-16.012	74.000	31.203	PK
3		*	2411.864	84.822	53.652	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.209	14.006	-8.791	54.000	31.203	AV
2		*	2411.024	80.315	49.144	N/A	N/A	31.171	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.744	96.051	64.916	N/A	N/A	31.135	PK
2			2483.500	57.812	26.619	-16.188	74.000	31.194	PK
3			2486.872	60.179	28.977	-13.821	74.000	31.202	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

Site: AC1	Time: 2017/05/24 - 22:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2462MHz	
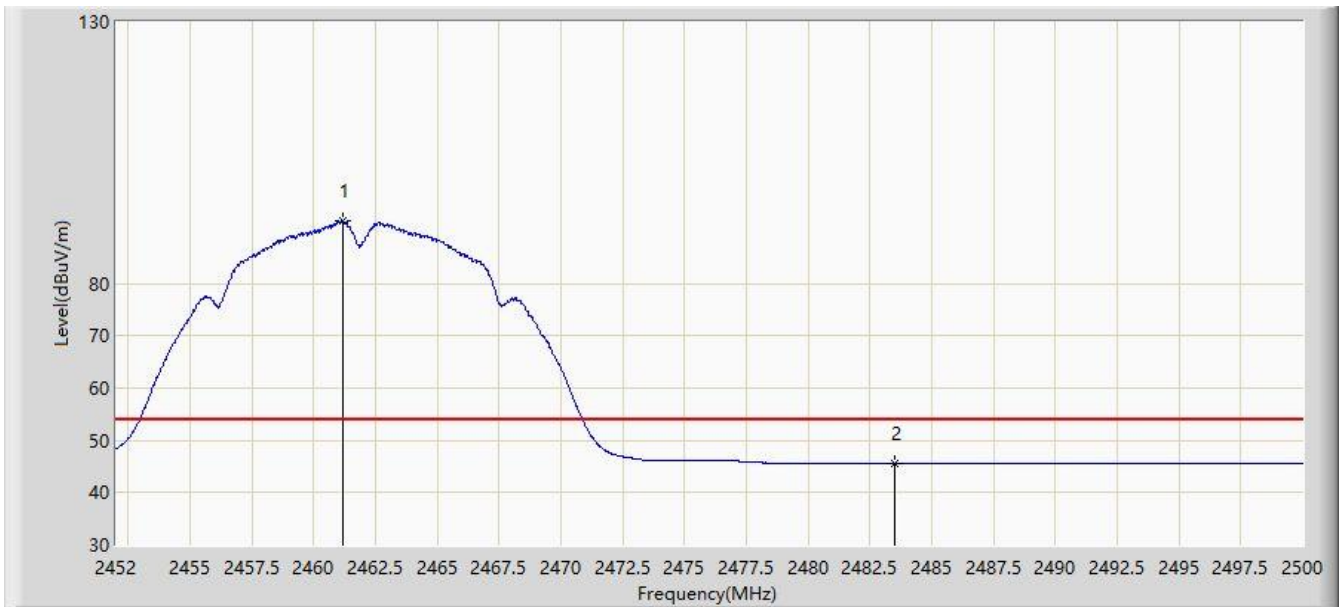
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.168	91.893	60.759	N/A	N/A	31.134	AV
2			2483.500	45.554	14.361	-8.446	54.000	31.194	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

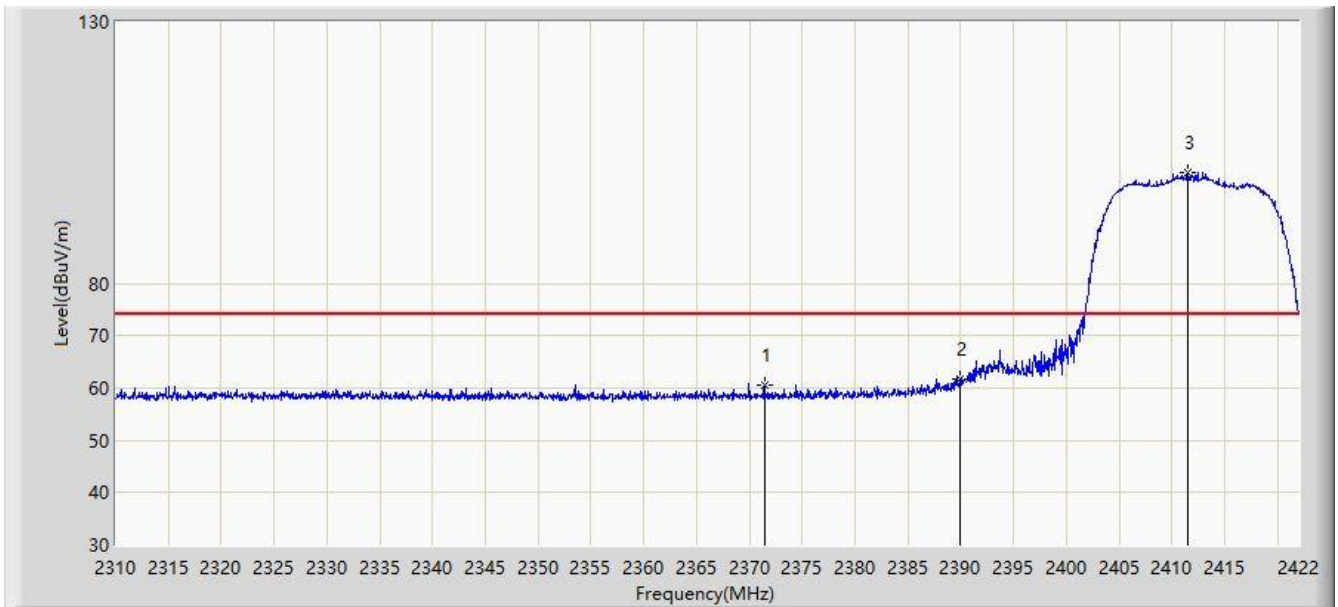| Site: AC1	Time: 2017/05/24 - 22:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2462MHz	
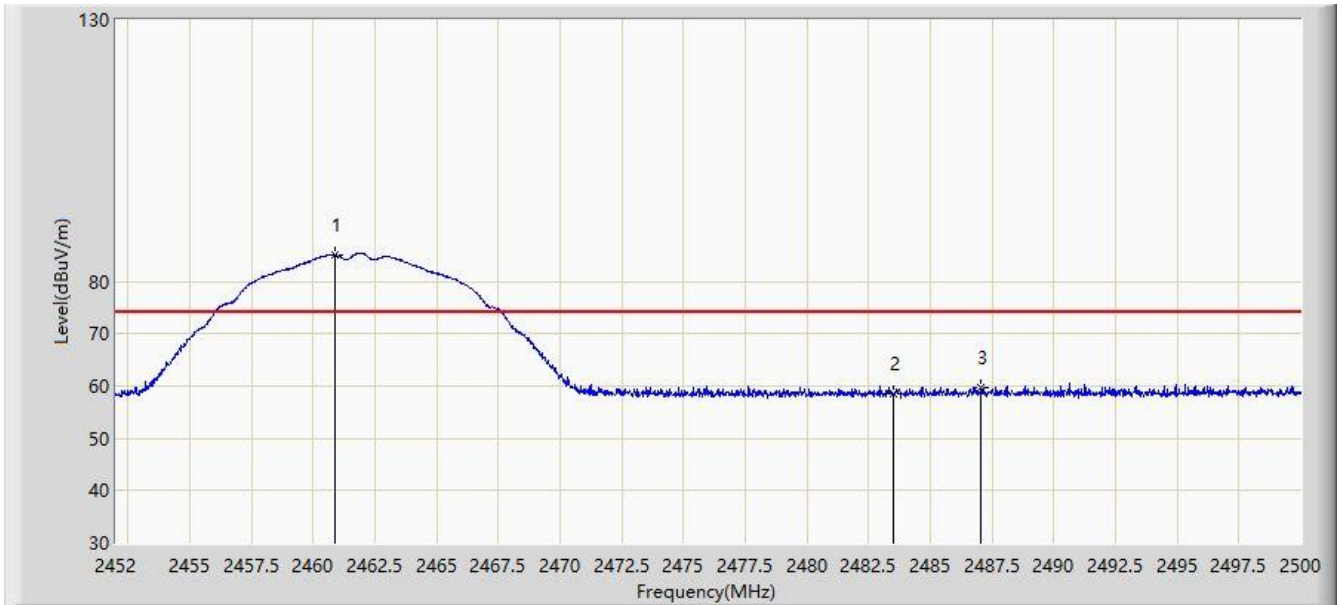
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.856	84.946	53.813	N/A	N/A	31.133	PK
2			2483.500	58.414	27.221	-15.586	74.000	31.194	PK
3			2487.040	59.682	28.479	-14.318	74.000	31.203	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

Site: AC1	Time: 2017/05/24 - 22:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11b at channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.072	81.281	50.147	N/A	N/A	31.134	AV
2			2483.500	45.393	14.200	-8.607	54.000	31.194	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.432	60.632	29.395	-13.368	74.000	31.237	PK
2			2390.000	61.738	30.535	-12.262	74.000	31.203	PK
3		*	2411.528	101.307	70.137	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2412MHz	
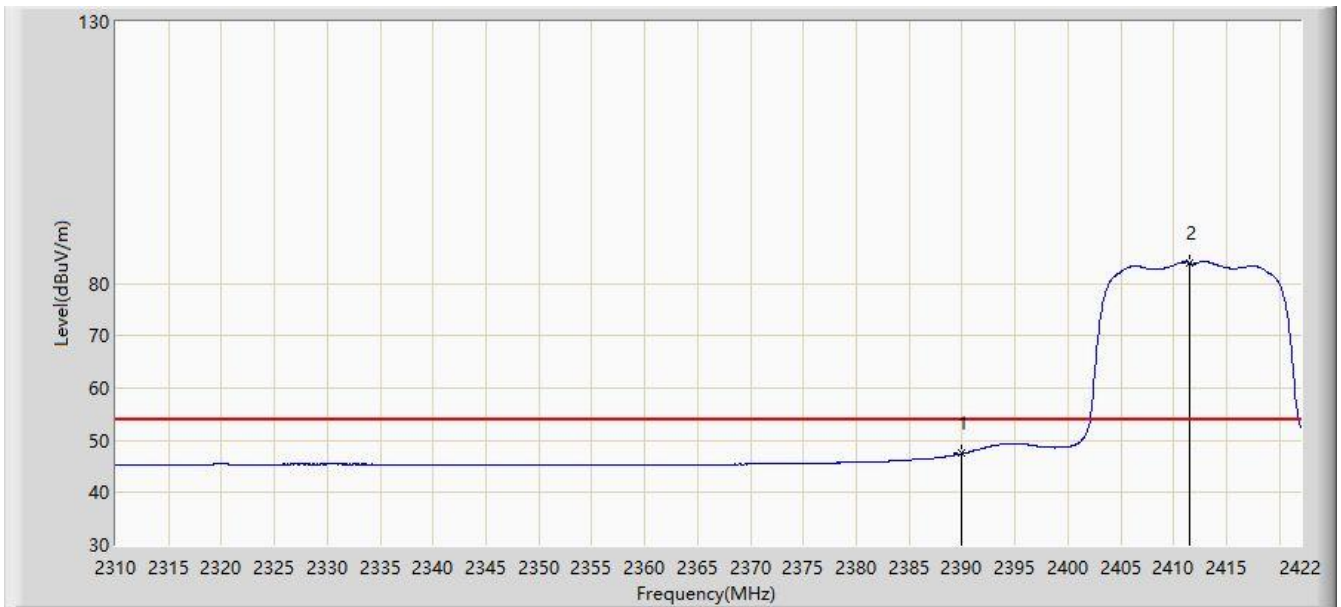
No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.452	16.249	-6.548	54.000	31.203	AV
2		*	2411.472	83.925	52.755	N/A	N/A	31.170	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2412MHz	
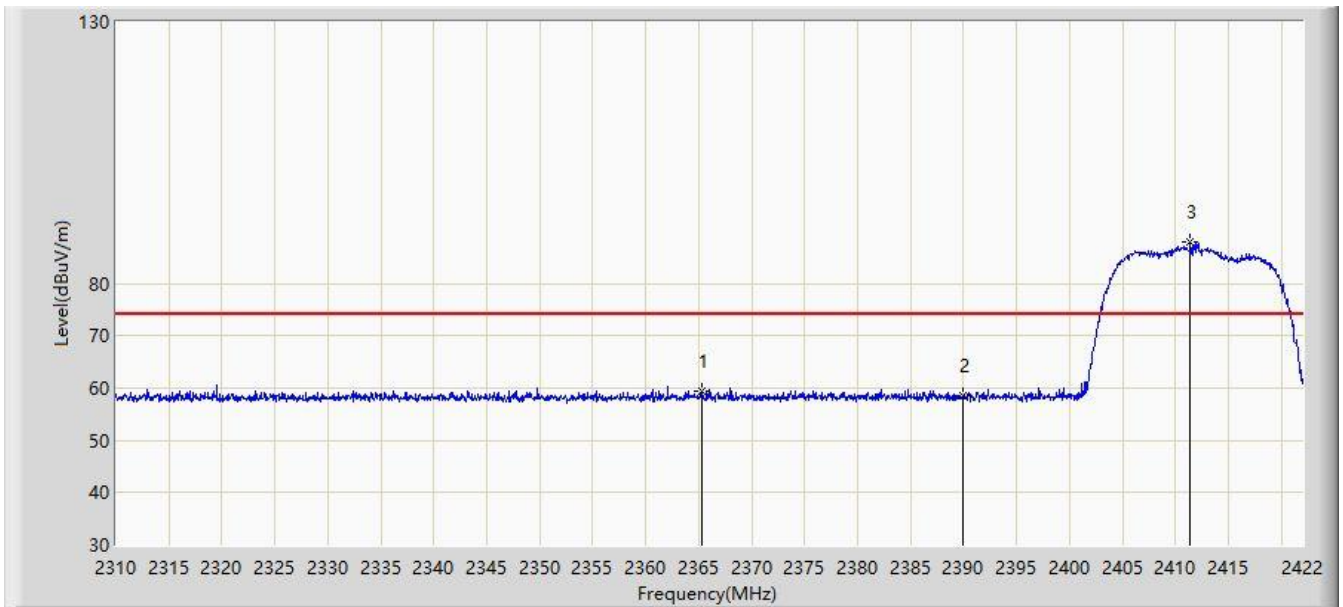
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2365.272	59.491	28.242	-14.509	74.000	31.249	PK
2			2390.000	58.389	27.186	-15.611	74.000	31.203	PK
3		*	2411.360	87.993	56.822	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2412MHz	
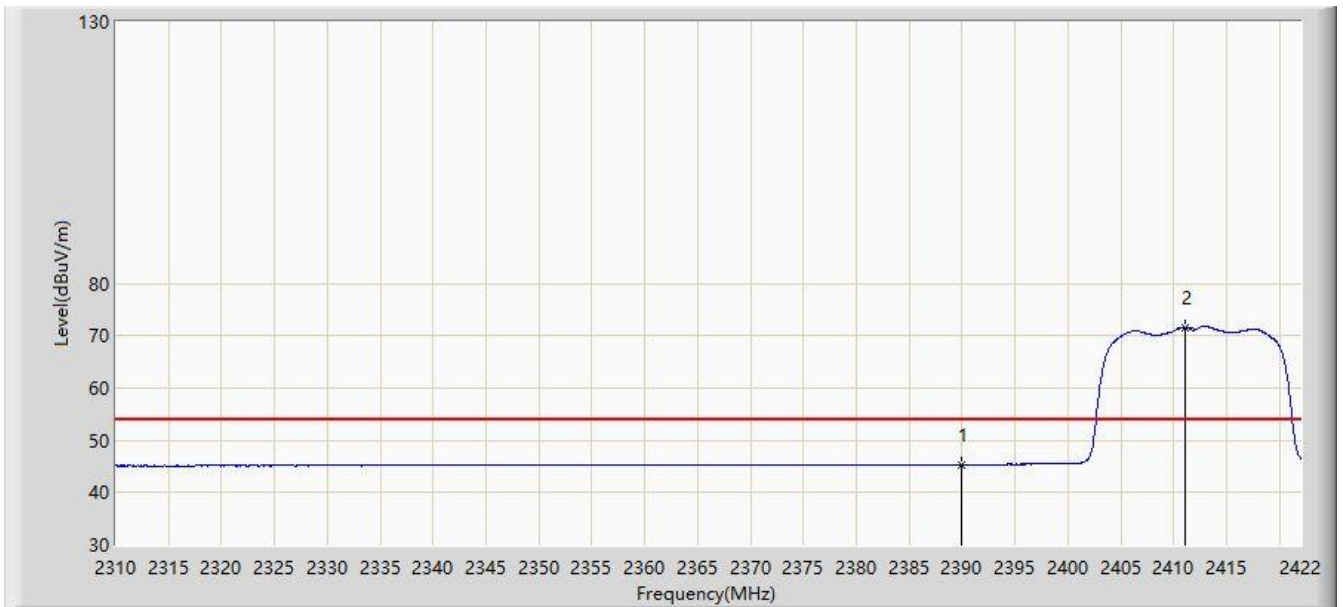
No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.296	14.093	-8.704	54.000	31.203	AV
2		*	2411.136	71.511	40.340	N/A	N/A	31.171	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

Site: AC1	Time: 2017/05/24 - 22:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2462MHz	
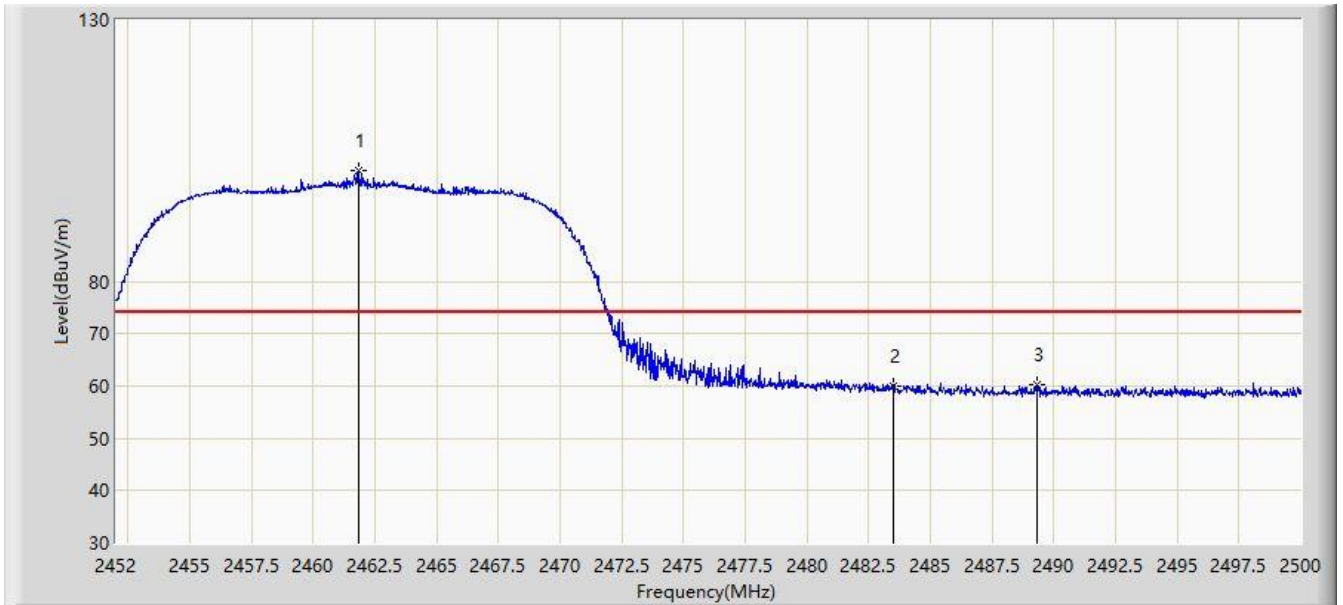
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.864	101.063	69.928	N/A	N/A	31.135	PK
2			2483.500	59.828	28.635	-14.172	74.000	31.194	PK
3			2489.296	60.387	29.178	-13.613	74.000	31.208	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 22:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2462MHz	
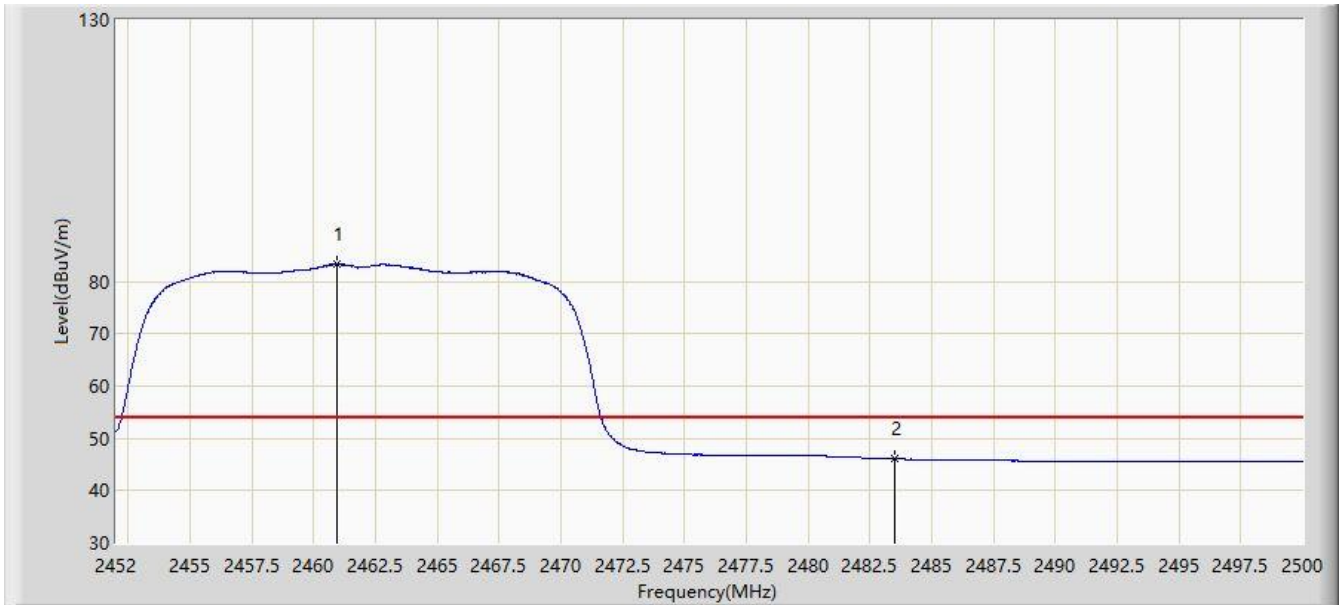
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.952	83.272	52.138	N/A	N/A	31.133	AV
2			2483.500	46.065	14.872	-7.935	54.000	31.194	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

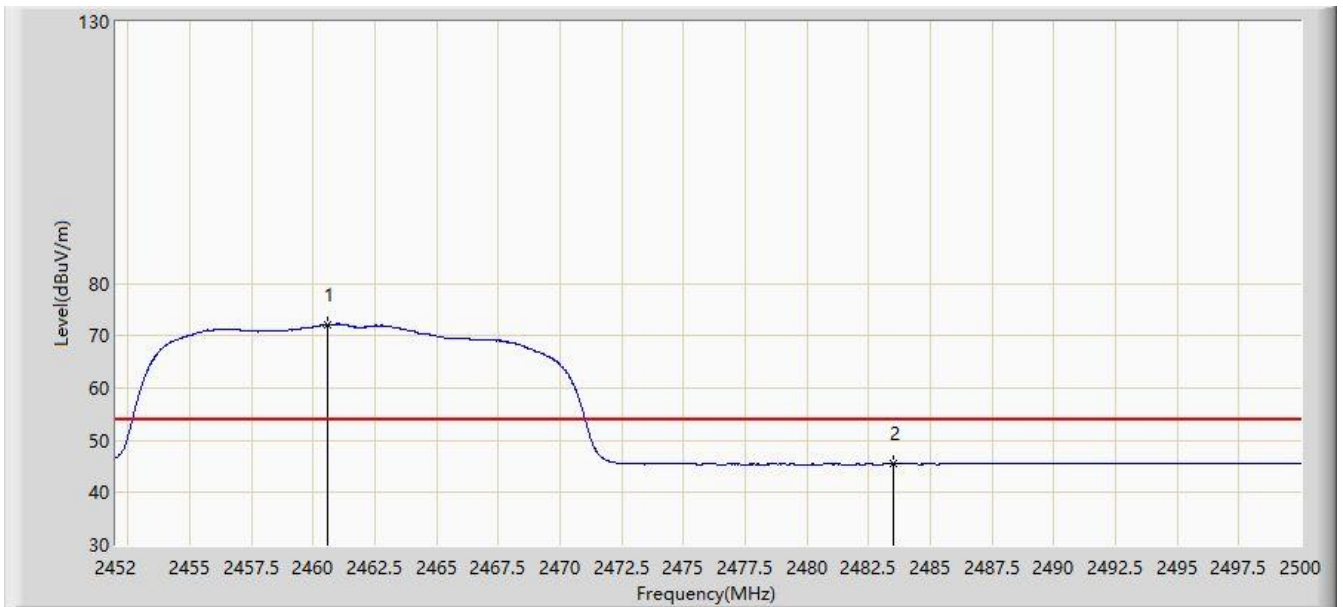| Site: AC1	Time: 2017/05/24 - 22:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2462MHz	
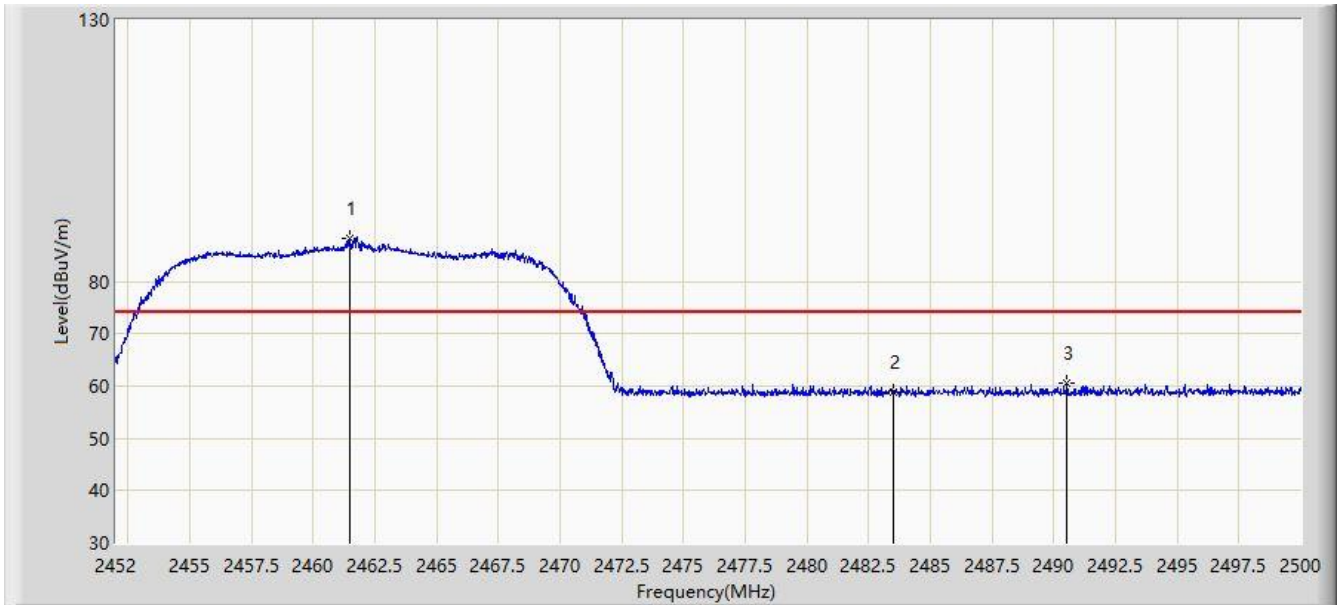
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.504	88.209	57.075	N/A	N/A	31.135	PK
2			2483.500	58.920	27.727	-15.080	74.000	31.194	PK
3			2490.544	60.604	29.392	-13.396	74.000	31.212	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

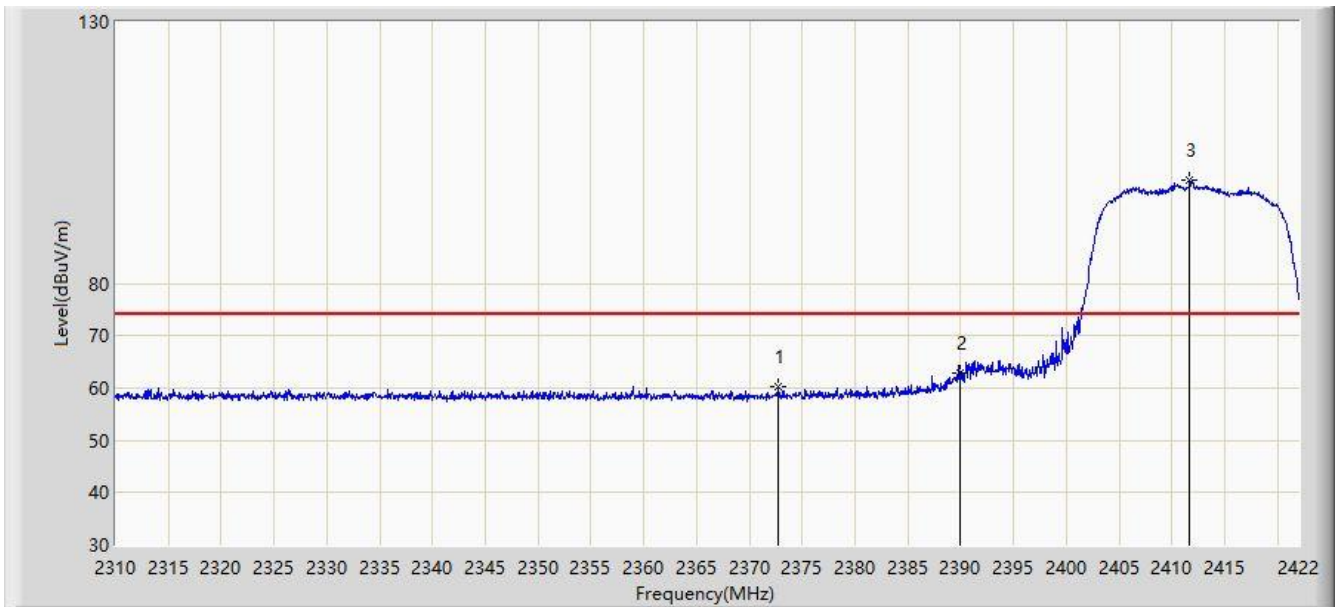| Site: AC1	Time: 2017/05/24 - 23:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11g at channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.592	72.090	40.957	N/A	N/A	31.133	AV
2			2483.500	45.467	14.274	-8.533	54.000	31.194	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

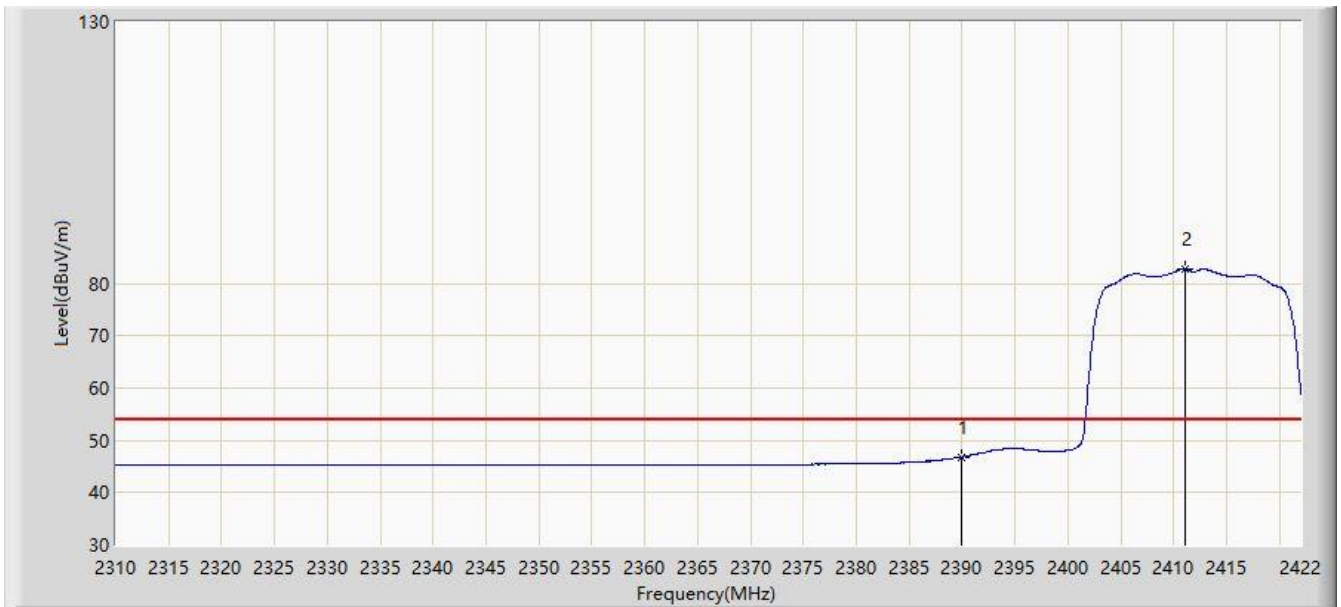| Site: AC1	Time: 2017/05/24 - 23:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2372.776	60.316	29.081	-13.684	74.000	31.235	PK
2			2390.000	62.745	31.542	-11.255	74.000	31.203	PK
3		*	2411.696	99.768	68.598	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

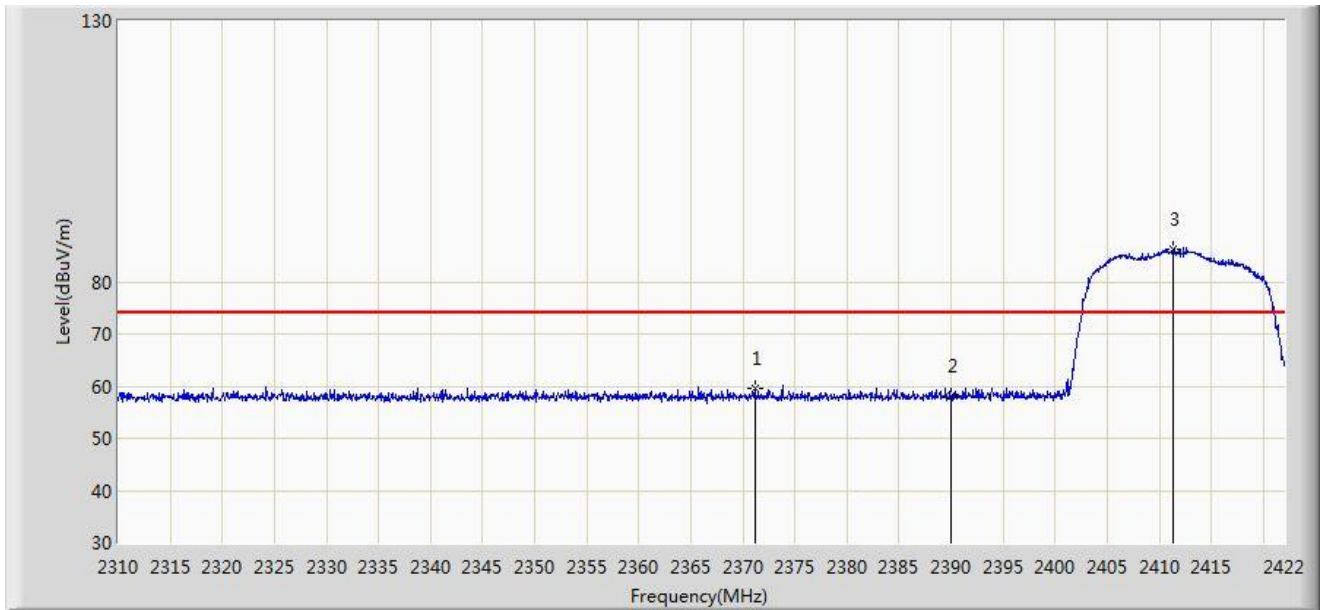| Site: AC1	Time: 2017/05/24 - 23:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.832	15.629	-7.168	54.000	31.203	AV
2		*	2411.136	82.715	51.544	N/A	N/A	31.171	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 23:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2371.152	59.689	28.451	-14.311	74.000	31.238	PK
2			2390.000	58.025	26.822	-15.975	74.000	31.203	PK
3		*	2411.360	86.150	54.979	N/A	N/A	31.170	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 23:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	
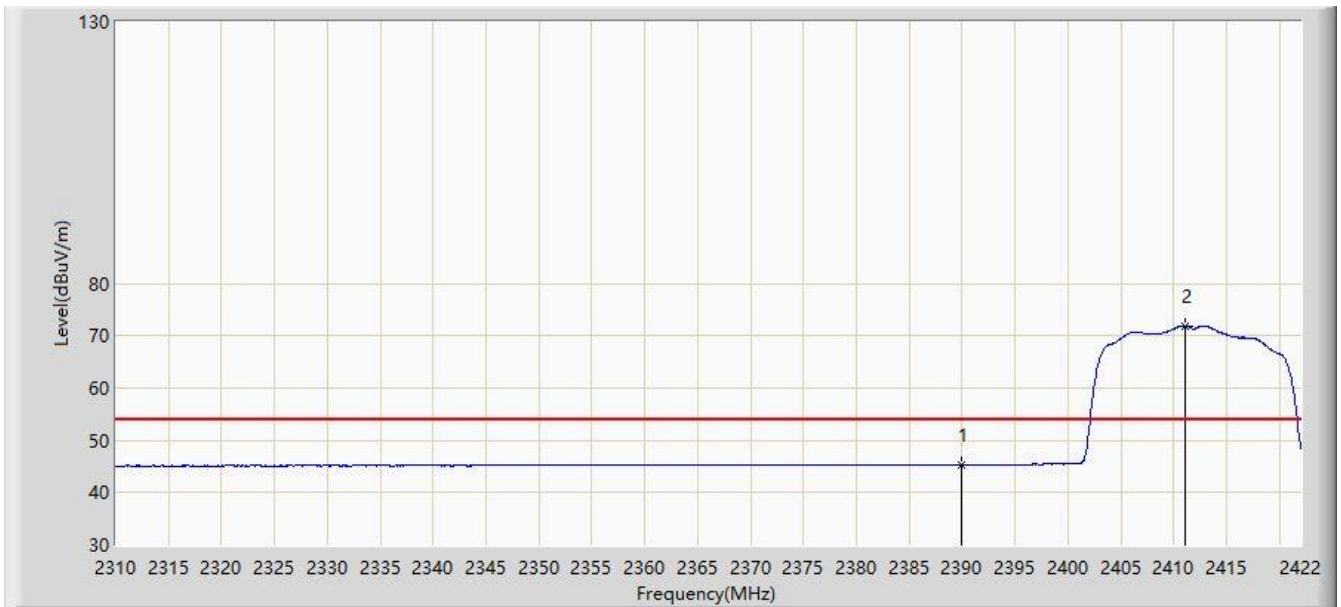
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.255	14.052	-8.745	54.000	31.203	AV
2		*	2411.136	71.876	40.705	N/A	N/A	31.171	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 23:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode:Transmit by 802.11n-HT20 at channel 2462MHz	
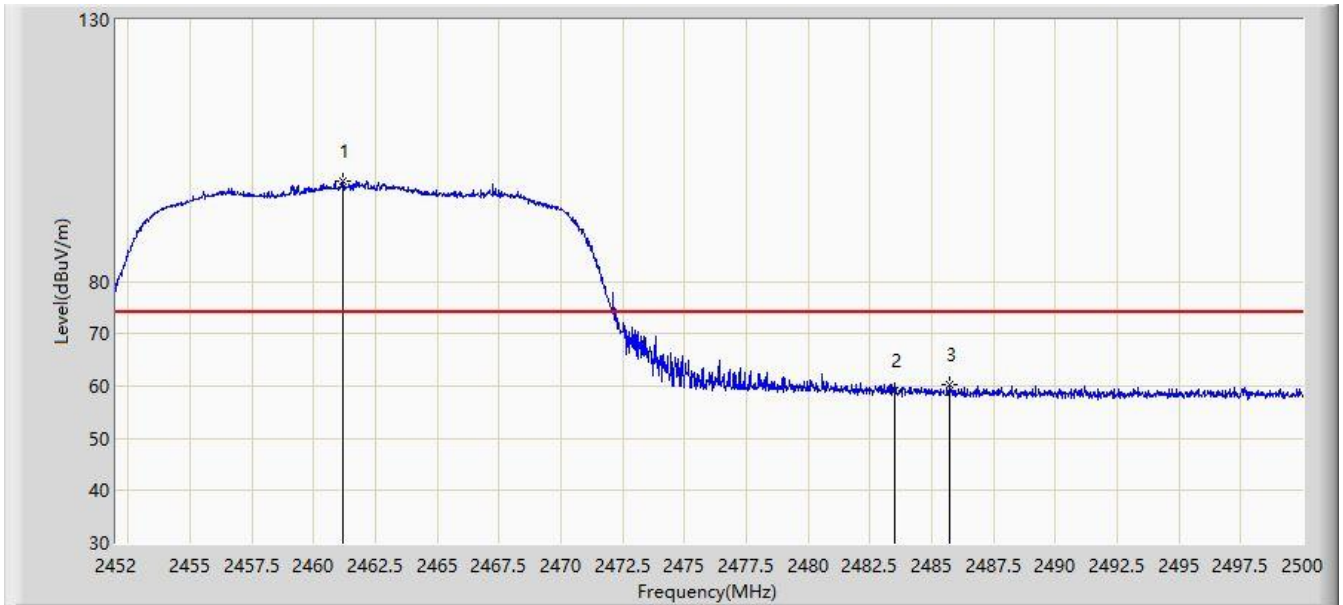
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.192	99.236	68.102	N/A	N/A	31.134	PK
2			2483.500	59.052	27.859	-14.948	74.000	31.194	PK
3			2485.744	60.175	28.976	-13.825	74.000	31.200	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 23:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	
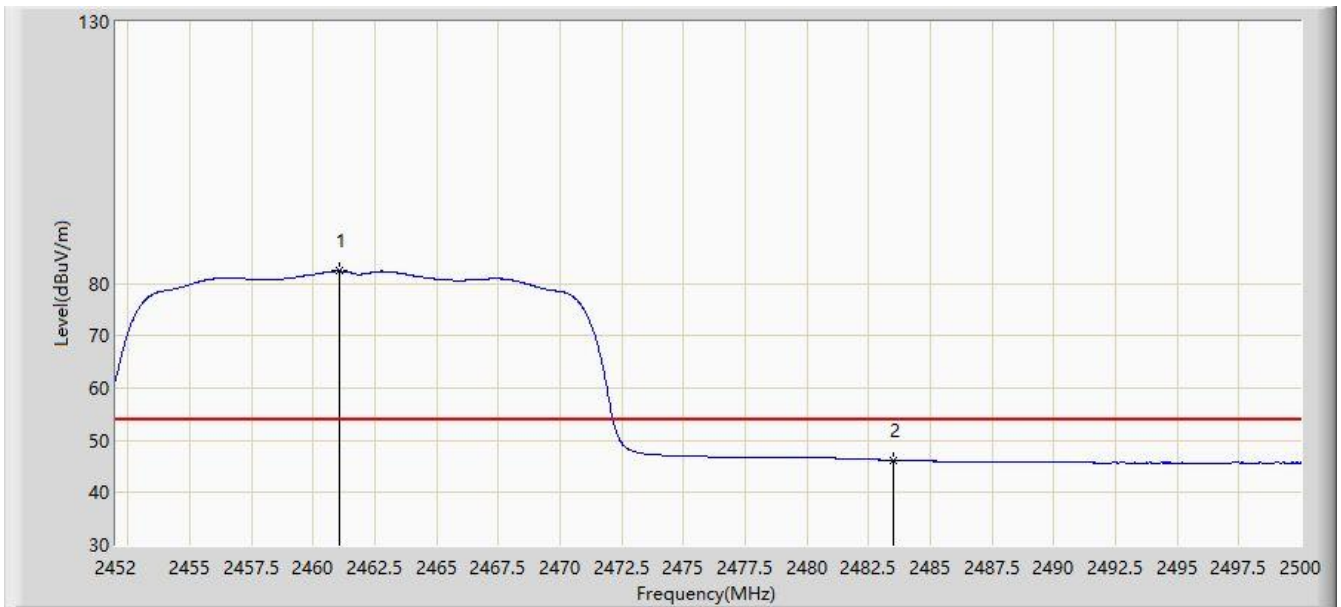
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.072	82.330	51.196	N/A	N/A	31.134	AV
2			2483.500	46.181	14.988	-7.819	54.000	31.194	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

| Site: AC1	Time: 2017/05/24 - 23:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	
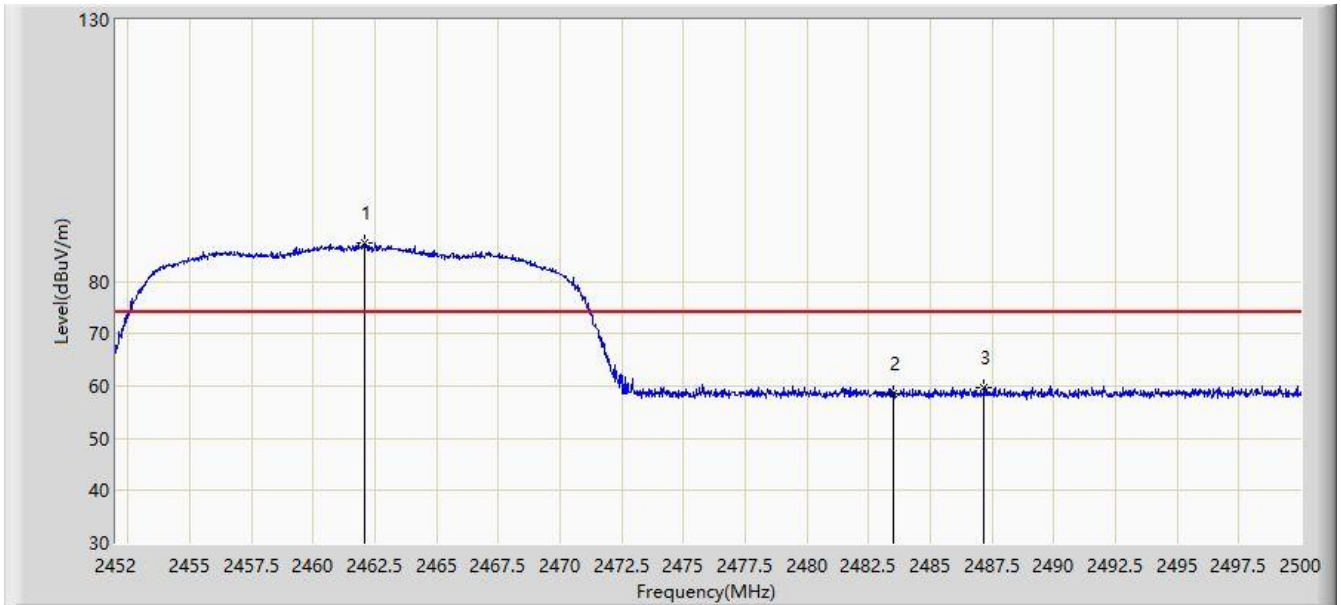
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.056	87.278	56.143	N/A	N/A	31.135	PK
2			2483.500	58.639	27.446	-15.361	74.000	31.194	PK
3			2487.184	59.719	28.516	-14.281	74.000	31.203	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

Site: AC1	Time: 2017/05/24 - 23:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Cassia Bluetooth Router	Power: By POE
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	
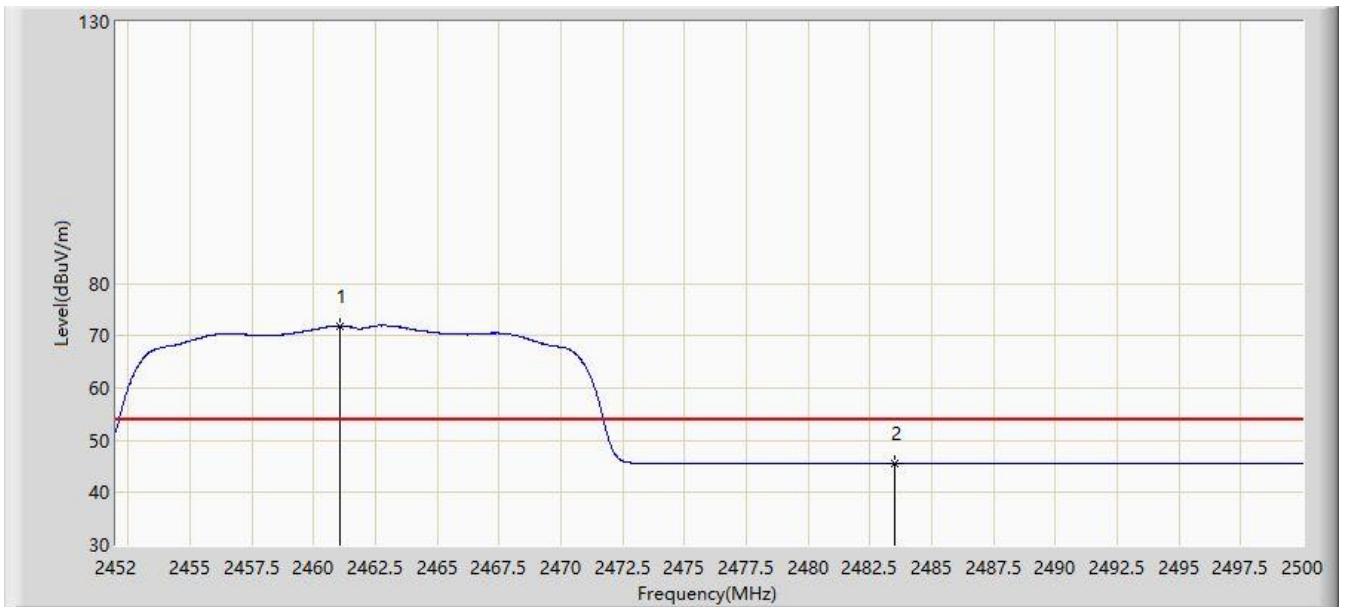
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.072	71.887	40.753	N/A	N/A	31.134	AV
2			2483.500	45.422	14.229	-8.578	54.000	31.194	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB) (dB/m)

7.8. AC Conducted Emissions Measurement

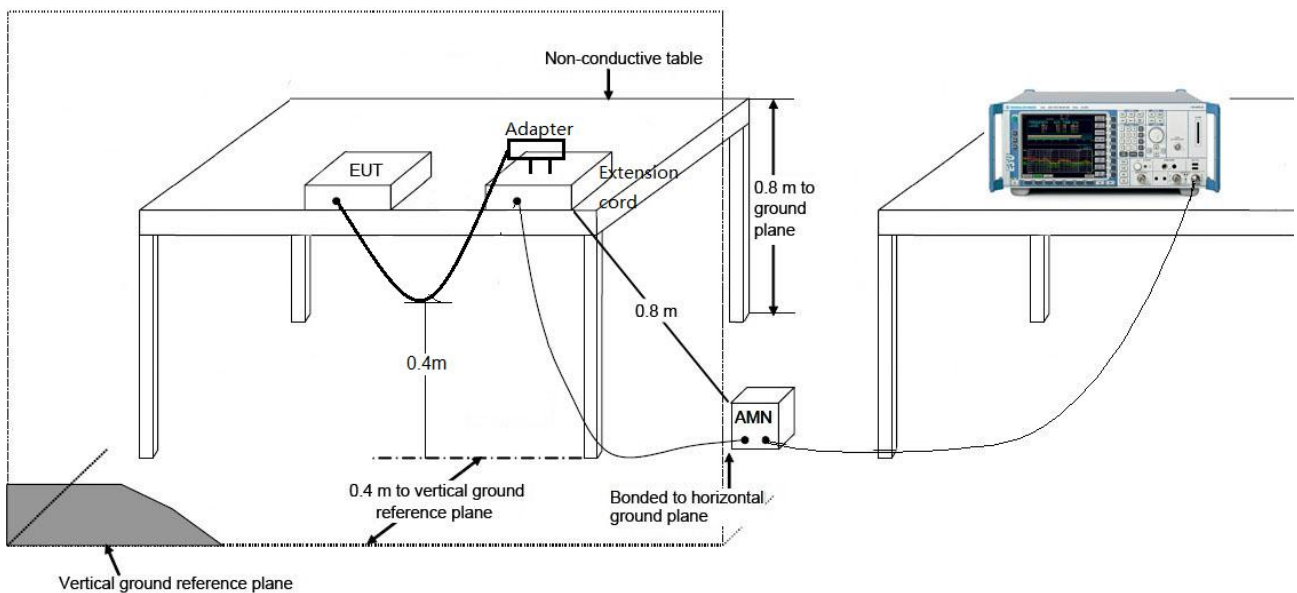### 7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.
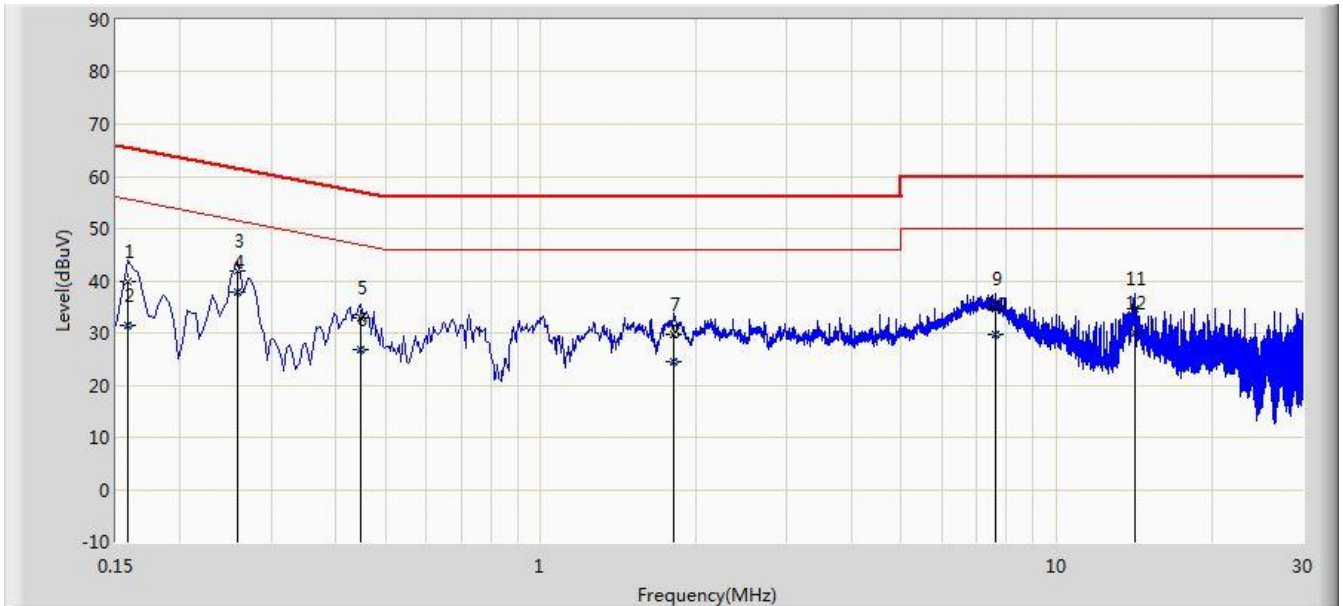
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup

7.8.3. Test Result

| Site: SR2	Time: 2017/05/27 - 13:54
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Vince Yu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Cassia Bluetooth Router	Power: By POE
Worst Case Mode: Transmit by 802.11g at Channel 2437MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.158	39.727	29.360	-25.841	65.568	10.367	QP
2			0.158	31.350	20.983	-24.218	55.568	10.367	AV
3			0.258	41.784	31.765	-19.711	61.496	10.018	QP
4		*	0.258	37.863	27.844	-13.632	51.496	10.018	AV
5			0.446	32.765	22.630	-24.184	56.949	10.135	QP
6			0.446	26.871	16.736	-20.079	46.949	10.135	AV
7			1.810	29.778	19.838	-26.222	56.000	9.940	QP
8			1.810	24.363	14.423	-21.637	46.000	9.940	AV
9			7.618	34.677	24.630	-25.323	60.000	10.047	QP
10			7.618	29.576	19.529	-20.424	50.000	10.047	AV
11			14.150	34.734	24.888	-25.266	60.000	9.847	QP
12			14.150	29.979	20.132	-20.021	50.000	9.847	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2017/05/27 - 14:00
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Vince Yu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Cassia Bluetooth Router	Power: By POE
Worst Case Mode: Transmit by 802.11g at Channel 2437MHz	
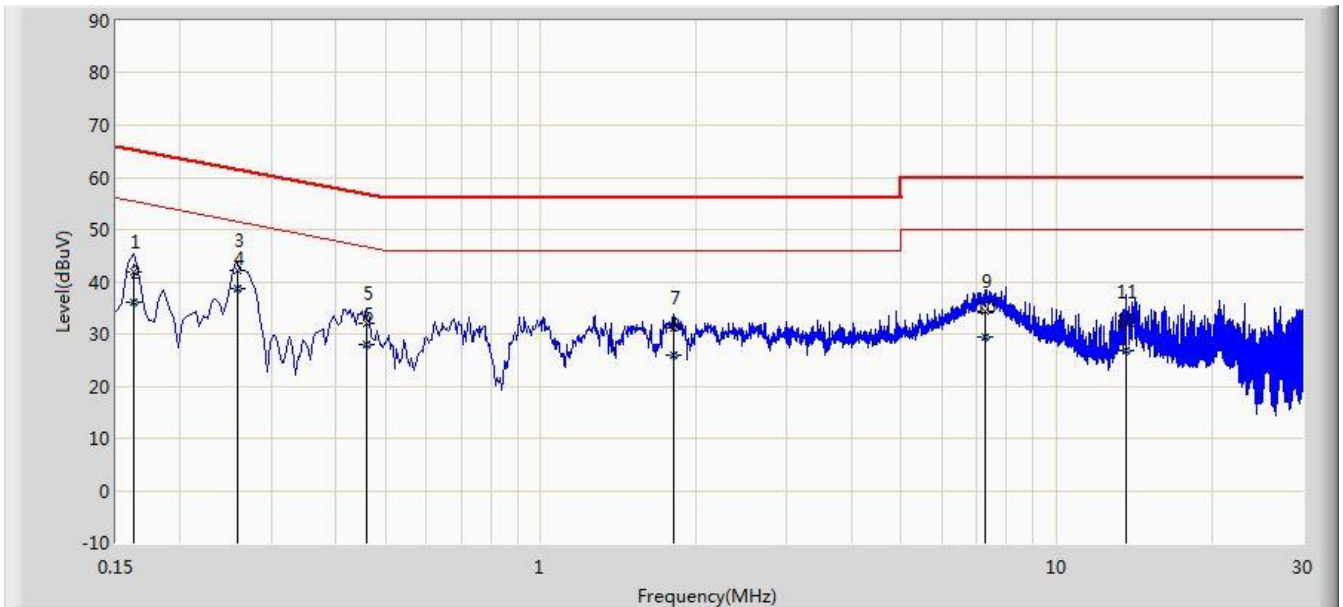
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.162	41.927	31.793	-23.434	65.361	10.134	QP
2			0.162	36.121	25.987	-19.240	55.361	10.134	AV
3			0.258	42.208	32.153	-19.287	61.496	10.055	QP
4		*	0.258	38.680	28.624	-12.816	51.496	10.055	AV
5			0.458	32.055	21.890	-24.674	56.729	10.165	QP
6			0.458	28.032	17.867	-18.697	46.729	10.165	AV
7			1.814	31.249	21.307	-24.751	56.000	9.943	QP
8			1.814	25.856	15.914	-20.144	46.000	9.943	AV
9			7.286	34.344	24.298	-25.656	60.000	10.047	QP
10			7.286	29.539	19.492	-20.461	50.000	10.047	AV
11			13.602	32.185	22.278	-27.815	60.000	9.907	QP
12			13.602	26.804	16.897	-23.196	50.000	9.907	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Cassia Bluetooth Router FCC**

ID: 2ALGLX1000 is in compliance with Part 15C of the FCC Rules and ISED Rules.

The End