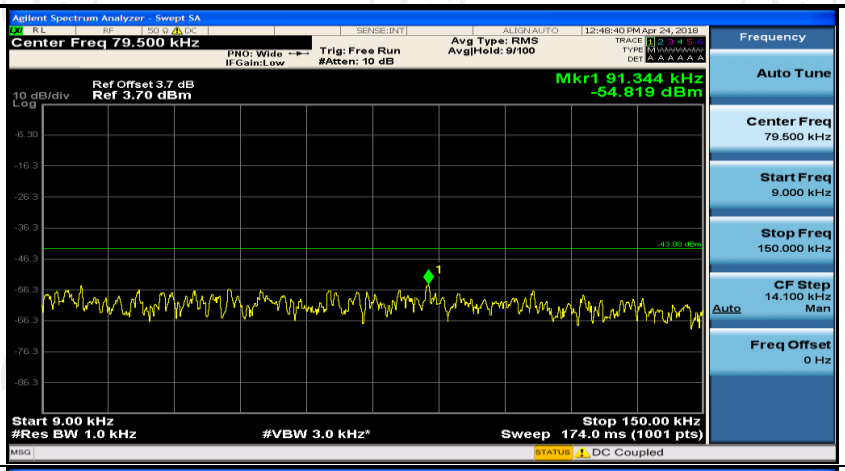
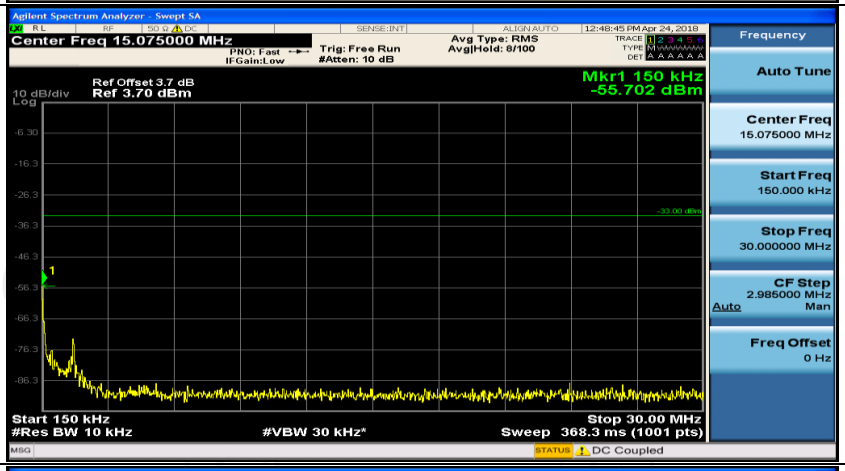
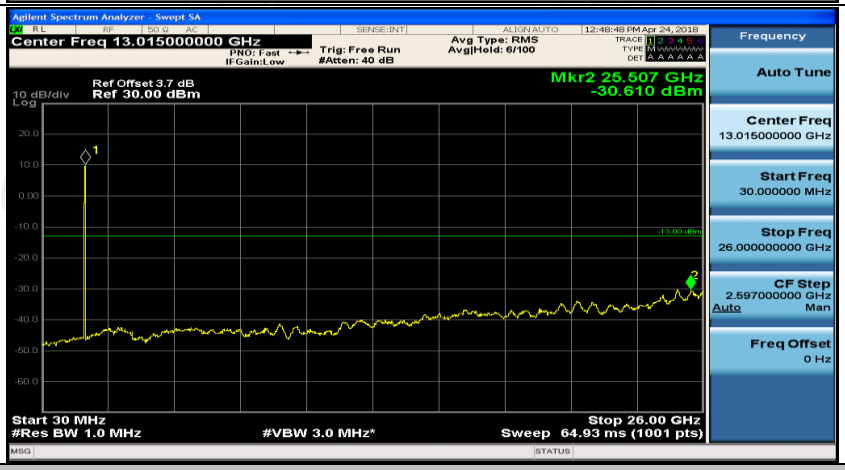
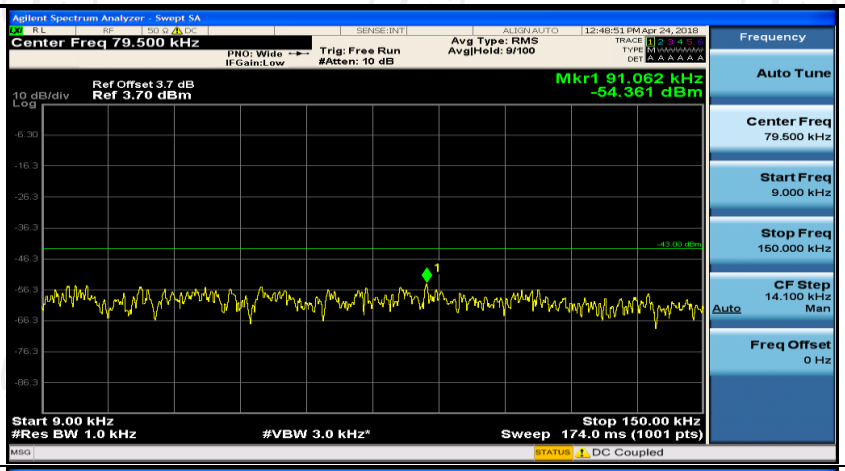
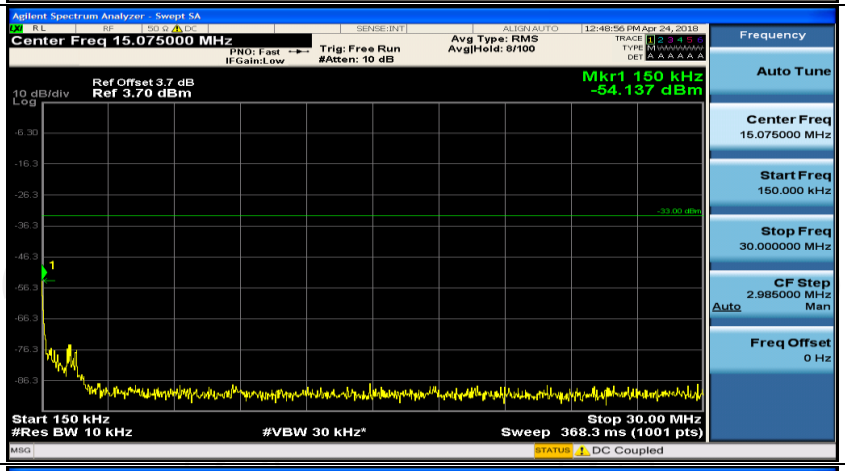


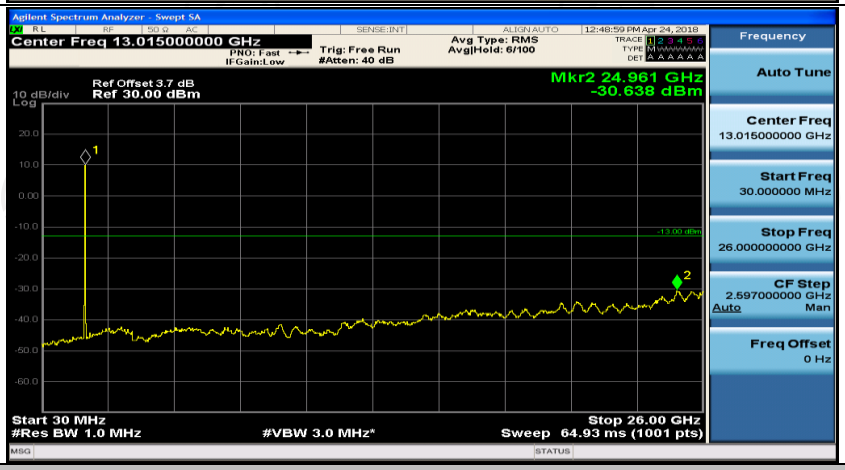




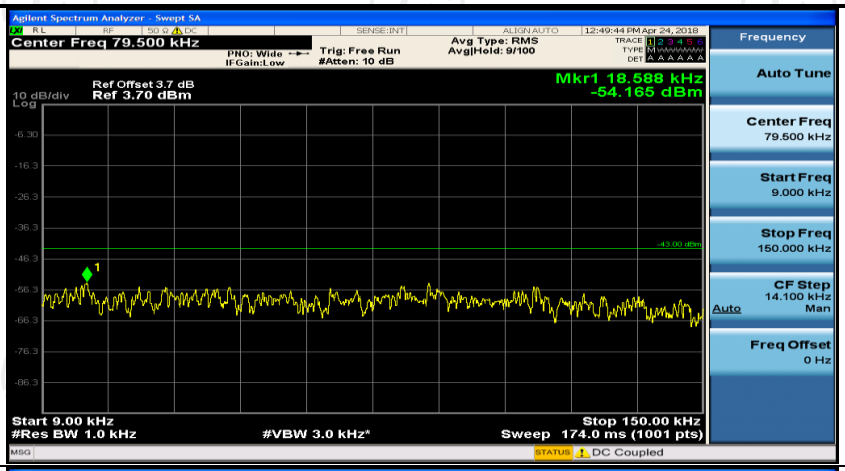
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

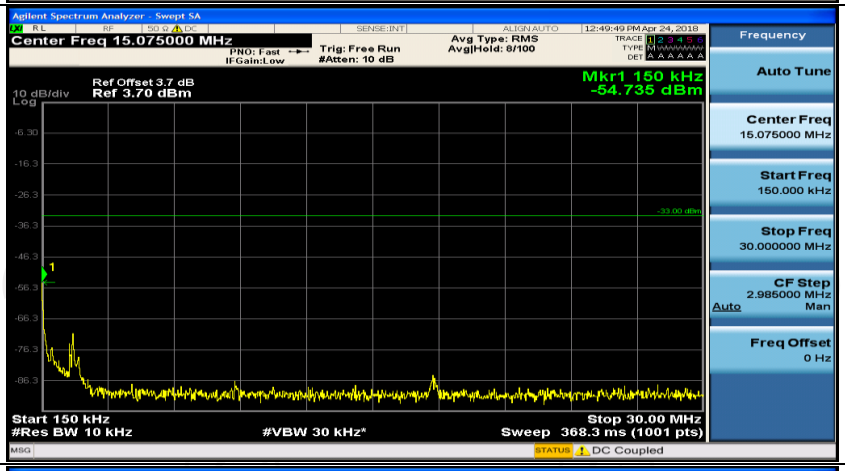


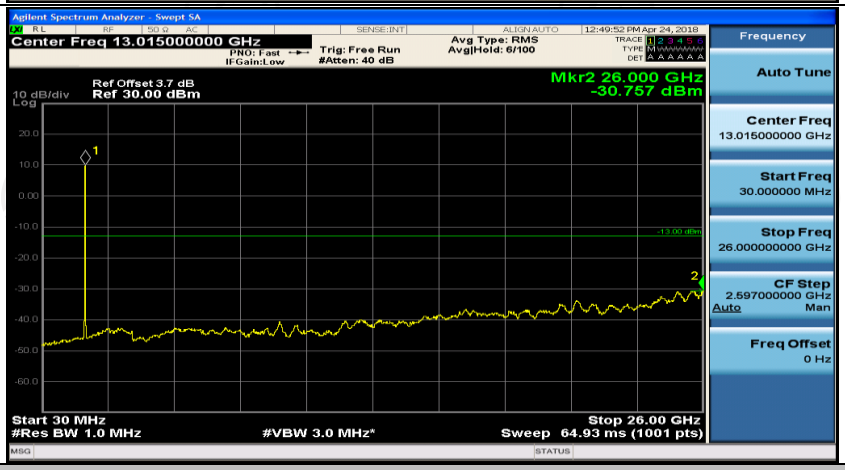




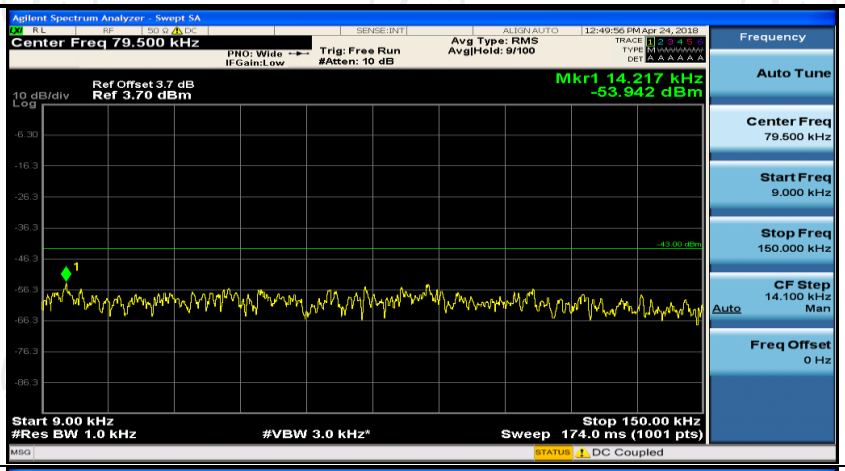
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

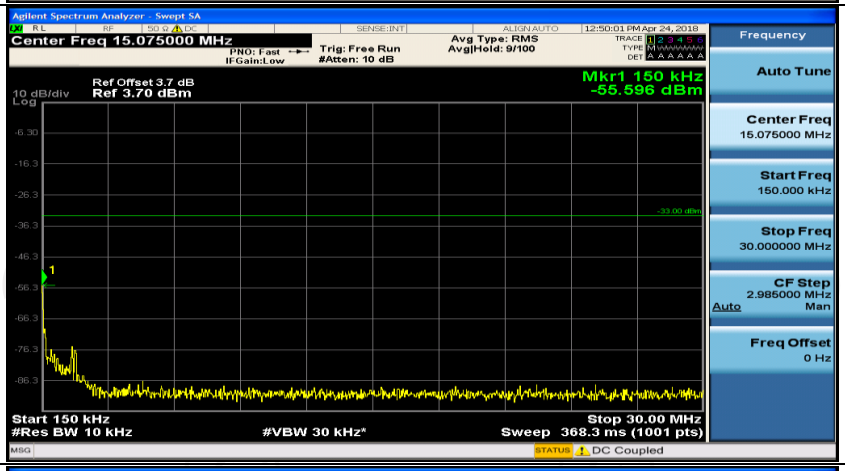


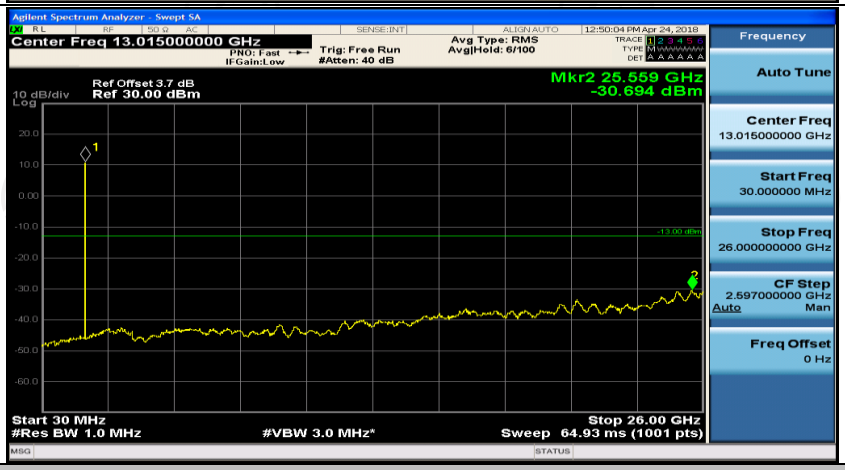




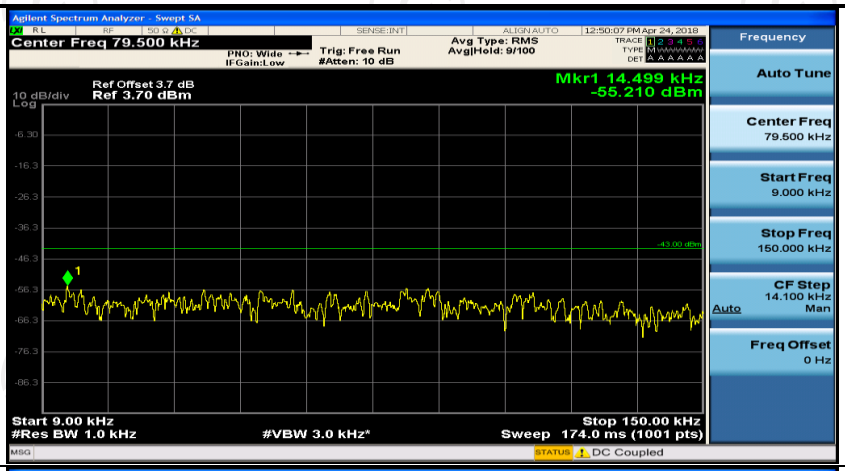
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

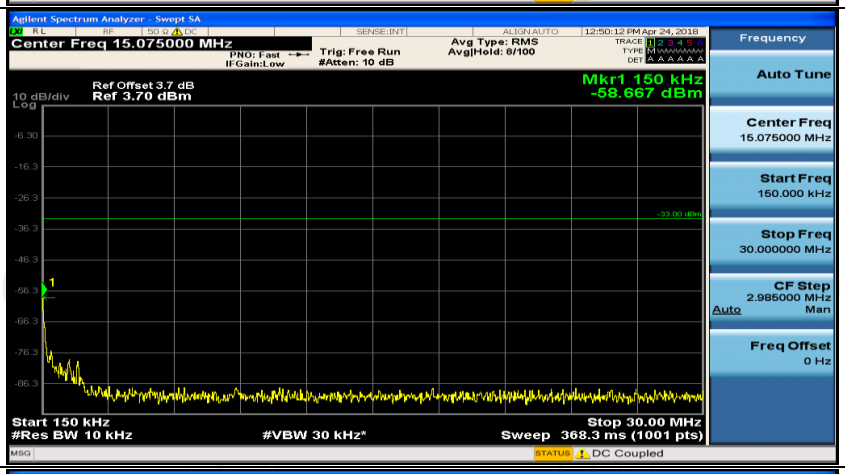


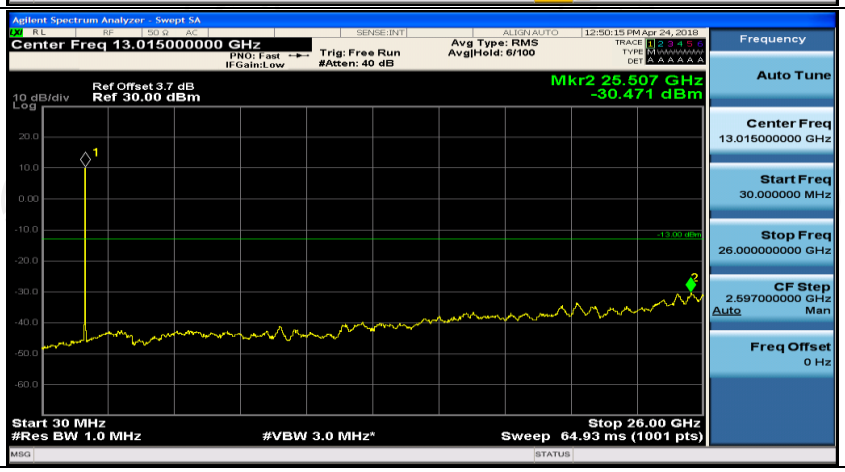




(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99







Note: All bandwidth and modulation are tested, only the worst result is reported.

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.4	TN	0.001085	± 2.5	PASS
		3.8	TN	0.001037	± 2.5	PASS
		4.35	TN	0.001095	± 2.5	PASS
	MCH	3.4	TN	0.000598	± 2.5	PASS
		3.8	TN	0.000619	± 2.5	PASS
		4.35	TN	0.000637	± 2.5	PASS
	HCH	3.4	TN	-0.004038	± 2.5	PASS
		3.8	TN	-0.004020	± 2.5	PASS
		4.35	TN	-0.004128	± 2.5	PASS
16QAM	LCH	3.4	TN	0.000727	± 2.5	PASS
		3.8	TN	0.000778	± 2.5	PASS
		4.35	TN	0.000752	± 2.5	PASS
	MCH	3.4	TN	0.000628	± 2.5	PASS
		3.8	TN	0.000603	± 2.5	PASS
		4.35	TN	0.000637	± 2.5	PASS
	HCH	3.4	TN	-0.001051	± 2.5	PASS
		3.8	TN	-0.001060	± 2.5	PASS
		4.35	TN	-0.001074	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	0	0.000935	± 2.5	PASS
		VN	10	0.000891	± 2.5	PASS
		VN	20	0.000627	± 2.5	PASS
		VN	30	0.001045	± 2.5	PASS
		VN	40	0.000326	± 2.5	PASS
	MCH	VN	0	-0.000119	± 2.5	PASS
		VN	10	-0.000125	± 2.5	PASS
		VN	20	-0.000017	± 2.5	PASS
		VN	30	0.000850	± 2.5	PASS
		VN	40	-0.000140	± 2.5	PASS
	HCH	VN	0	-0.001862	± 2.5	PASS
		VN	10	-0.001837	± 2.5	PASS
		VN	20	-0.003148	± 2.5	PASS
		VN	30	-0.001313	± 2.5	PASS
		VN	40	-0.001892	± 2.5	PASS
16QAM	LCH	VN	0	-0.002034	± 2.5	PASS
		VN	10	-0.001325	± 2.5	PASS

		VN	20	-0.001321	± 2.5	PASS
		VN	30	-0.000761	± 2.5	PASS
		VN	40	-0.002040	± 2.5	PASS
	MCH	VN	0	0.000446	± 2.5	PASS
		VN	10	0.000572	± 2.5	PASS
		VN	20	0.000471	± 2.5	PASS
		VN	30	0.000512	± 2.5	PASS
		VN	40	0.000149	± 2.5	PASS
	HCH	VN	0	-0.001187	± 2.5	PASS
		VN	10	-0.001265	± 2.5	PASS
		VN	20	-0.001288	± 2.5	PASS
		VN	30	-0.001117	± 2.5	PASS
		VN	40	-0.001215	± 2.5	PASS

Note: All bandwidth and modulation are tested, only the worst result is reported.

Appendix G :Field Strength of Spurious Radiation Measurement

Test Result

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.4	Vertical	-42.02	-13.00	PASS
5132.1	V	-43.51		
-	V	-		
3421.4	Horizontal	-43.98		
5132.1	H	-43.11		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465	Vertical	-42.55	-13.00	PASS
5197.5	V	-45.30		
-	V	-		
3465	Horizontal	-43.27		
5197.5	H	-46.85		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.6	Vertical	-43.75	-13.00	PASS
5262.9	V	-46.88		
-	V	-		
3508.6	Horizontal	-45.32		
5262.9	H	-44.49		
-	H	-		

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.4	Vertical	-43.27	-13.00	PASS
5132.1	V	-47.75		
-	V	-		
3421.4	Horizontal	-44.29		
5132.1	H	-44.69		
-	H	-		
Bandwidth:	**1.4M**		**Test channel:**	**Middle**
Modulation:	**16QAM**		**Temperature :**	**23~24°C**
RB #:	**1RB #0**		**Relative Humidity:**	**46~48%**
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465	Vertical	-42.19	-13.00	PASS
5197.5	V	-45.34		
-	V	-		
3465	Horizontal	-41.85		
5197.5	H	-44.44		
-	H	-		
Bandwidth:	**1.4M**		**Test channel:**	**Highest**
Modulation:	**16QAM**		**Temperature :**	**23~24°C**
RB #:	**1RB #0**		**Relative Humidity:**	**46~48%**
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.6	Vertical	-42.62	-13.00	PASS
5262.9	V	-45.36		
-	V	-		
3508.6	Horizontal	-43.68		
5262.9	H	-44.89		
-	H	-		

Note: All bandwidth and modulation are tested, only the worst result is reported.