Appendix A: Test Result of Conducted Test

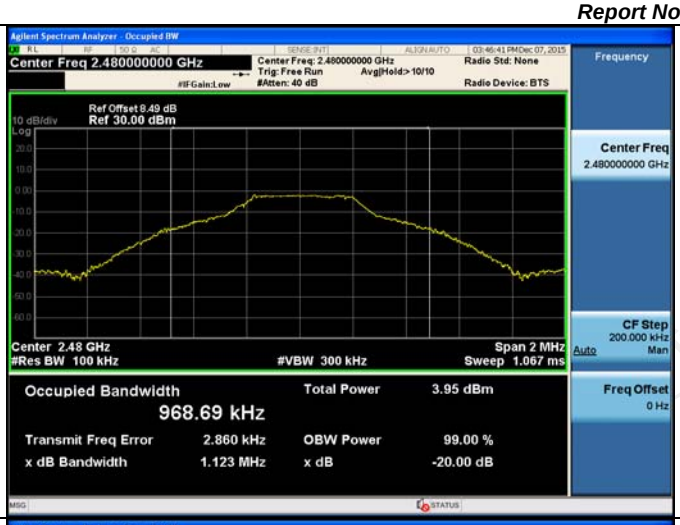
20dB Occupied Bandwidth

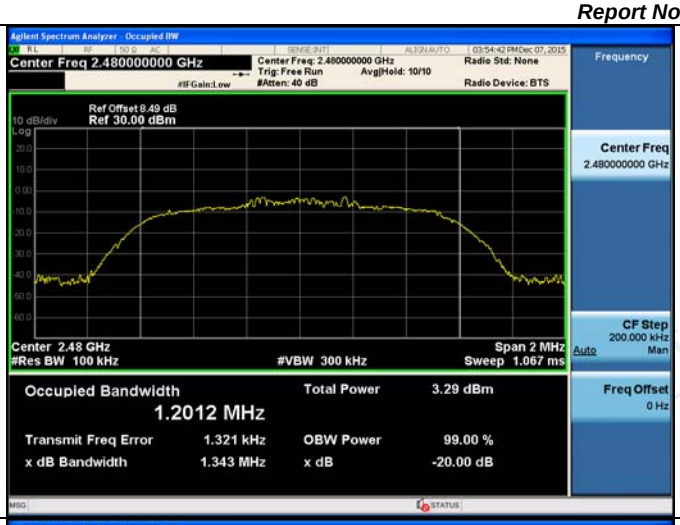
Test Result

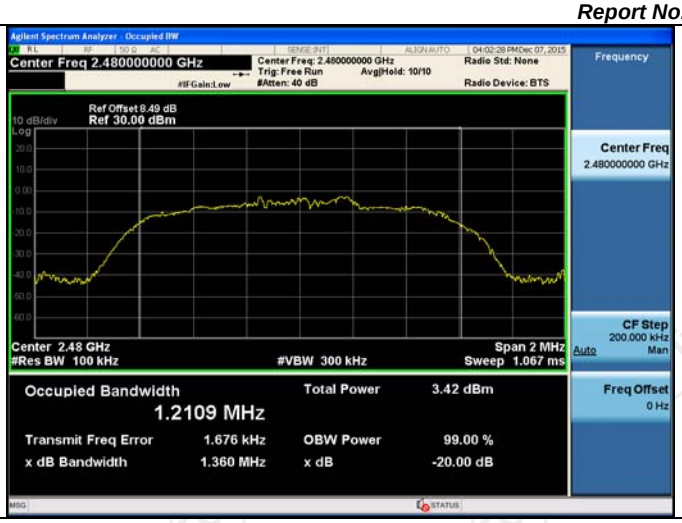
Mode	Channel.	20dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
GFSK	LCH	1.103	0.96038	PASS
GFSK	MCH	1.111	0.96884	PASS
GFSK	HCH	1.123	0.96869	PASS
π /4DQPSK	LCH	1.343	1.1982	PASS
π /4DQPSK	MCH	1.338	1.2001	PASS
π /4DQPSK	HCH	1.343	1.2012	PASS
8DPSK	LCH	1.351	1.2179	PASS
8DPSK	MCH	1.356	1.2112	PASS
8DPSK	HCH	1.360	1.2109	PASS

Test Graph

Graphs			
GFSK/LCH			
GFSK/MCH			

GFSK/HCH			
π/4DQPSK/LCH			
π/4DQPSK/MCH			

π/4DQPSK/HCH			
8DPSK/LCH			
8DPSK/MCH			

8DPSK/HCH		 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold: 10/10 #Atten: 40 dB Radio Std: None Radio Device: BTS Frequency Ref Offset 8.49 dB 10 dB/div Ref 30.00 dBm Log Center Freq 2.480000000 GHz CF Step 200.000 kHz Auto Man Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 2 MHz Sweep 1.067 ms Occupied Bandwidth 1.2109 MHz Total Power 3.42 dBm Transmit Freq Error 1.676 kHz OBW Power 99.00 % x dB Bandwidth 1.360 MHz x dB -20.00 dB Freq Offset 0 Hz MSG STATUS	

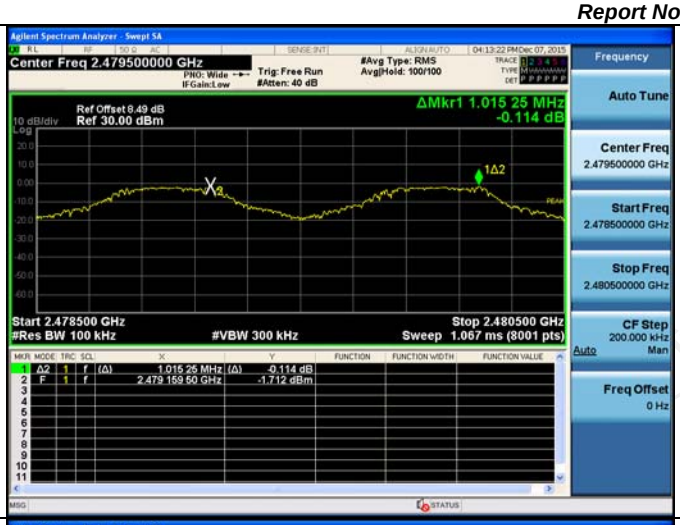
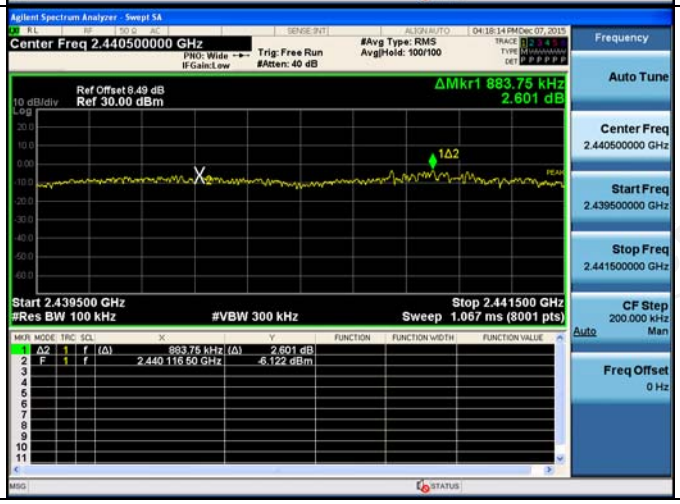
Carrier Frequency Separation

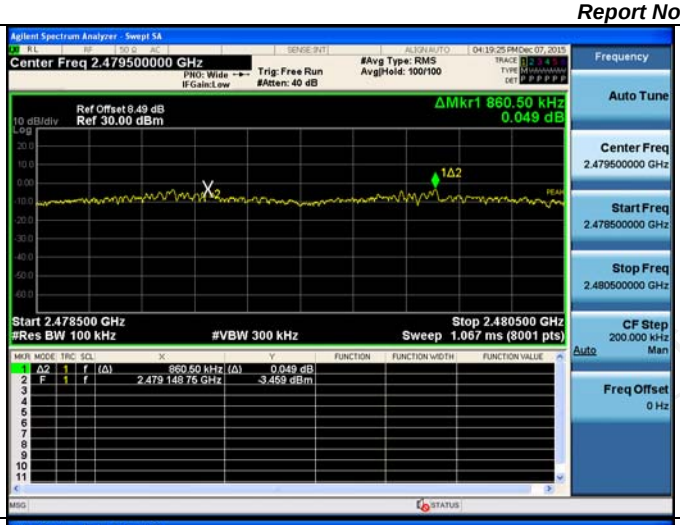
Result Table

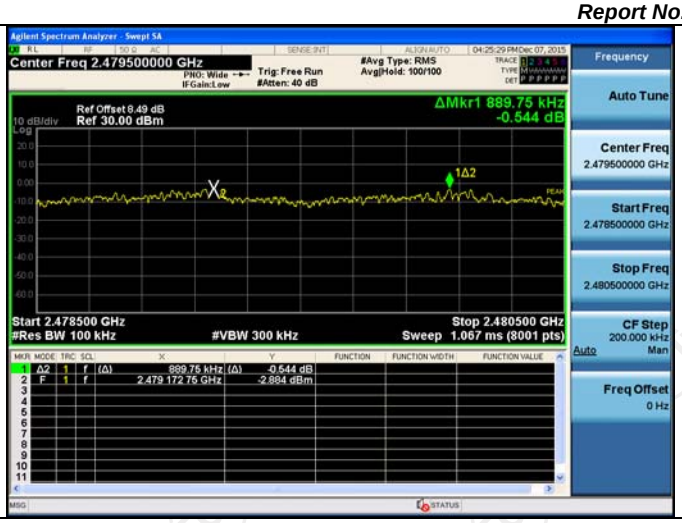
Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	0.718	PASS
GFSK	MCH	0.960	PASS
GFSK	HCH	1.015	PASS
π/4DQPSK	LCH	1.305	PASS
π/4DQPSK	MCH	0.884	PASS
π/4DQPSK	HCH	0.861	PASS
8DPSK	LCH	1.148	PASS
8DPSK	MCH	1.005	PASS
8DPSK	HCH	0.890	PASS

Test Graph

Graphs			
GFSK/LCH			
GFSK/MCH			

GFSK/HCH			
π/4DQPSK/LCH			
π/4DQPSK/MCH			

π/4DQPSK/HCH			
8DPSK/LCH			
8DPSK/MCH			

8DPSK/HCH			

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.479500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:25:29 PM Dec 07, 2015
Ref Offset 8.49 dB
10 dB/div
Ref 30.00 dBm
ΔMkr1 889.75 kHz
-0.544 dB
1Δ2
Start 2.478500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.480500 GHz
Sweep 1.067 ms (8001 pts)
1 Δ2 1 f (Δ) 889.75 kHz (Δ) -0.544 dB
2 F 1 f 2.479 172.75 GHz -2.884 dBm
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.478500000 GHz
Stop Freq
2.480500000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

Dwell Time

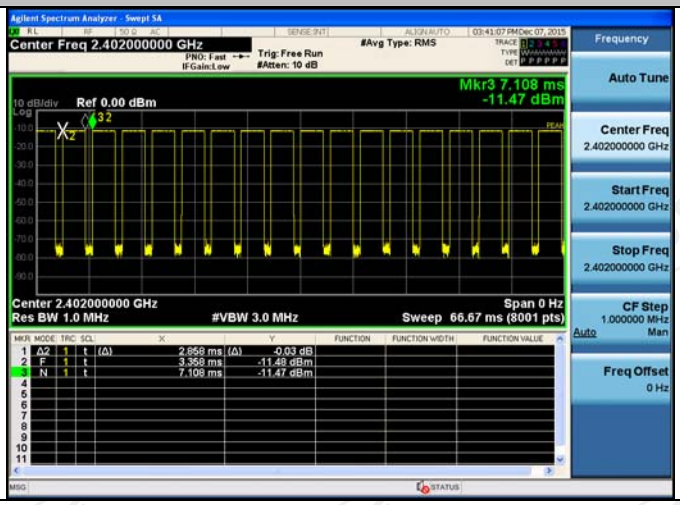
Result Table

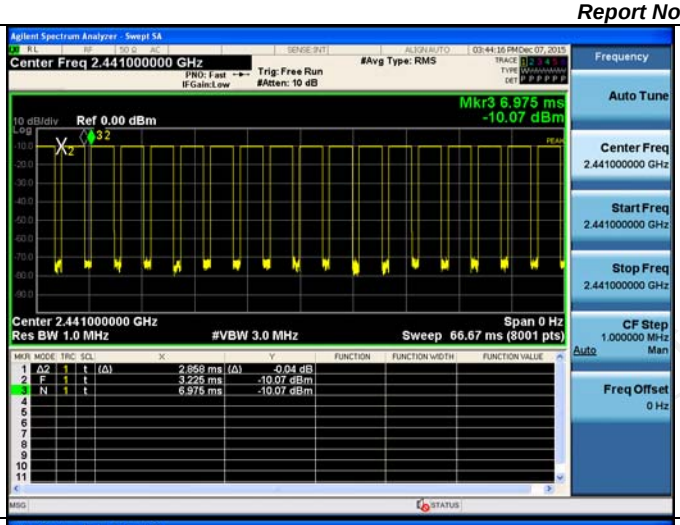
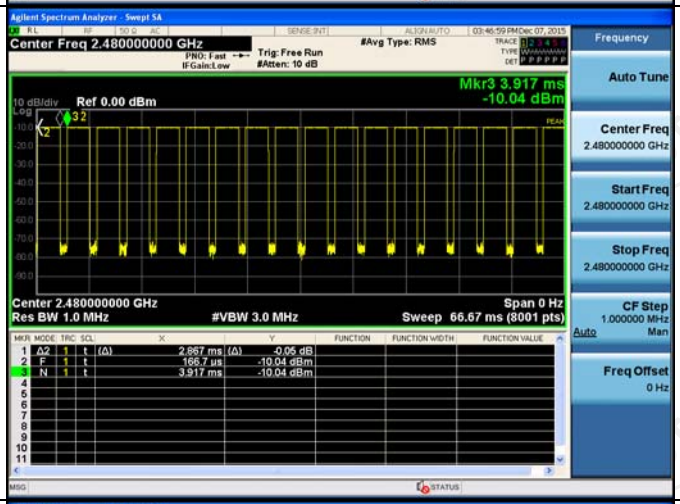
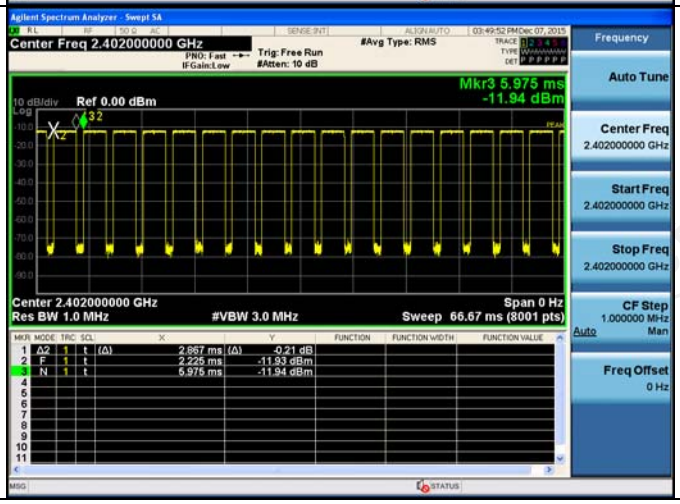
The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

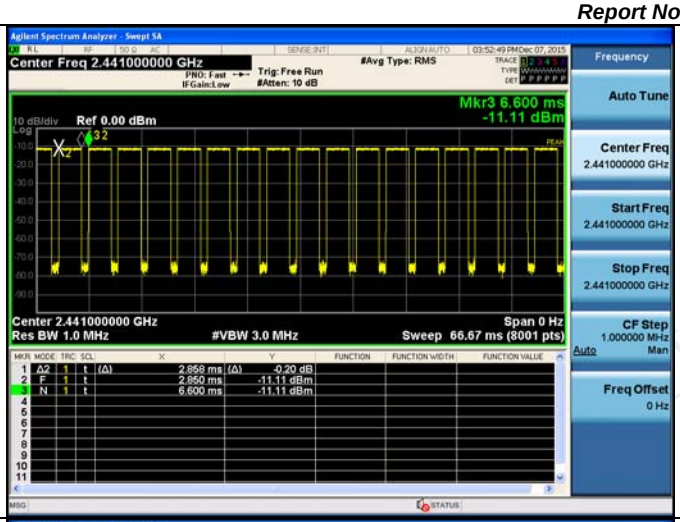
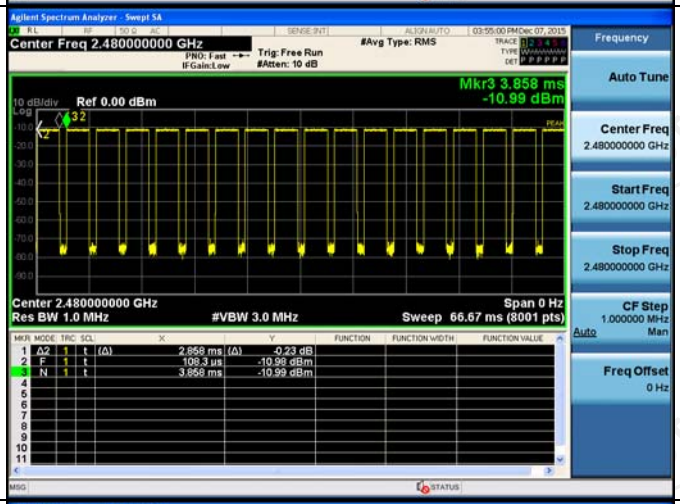
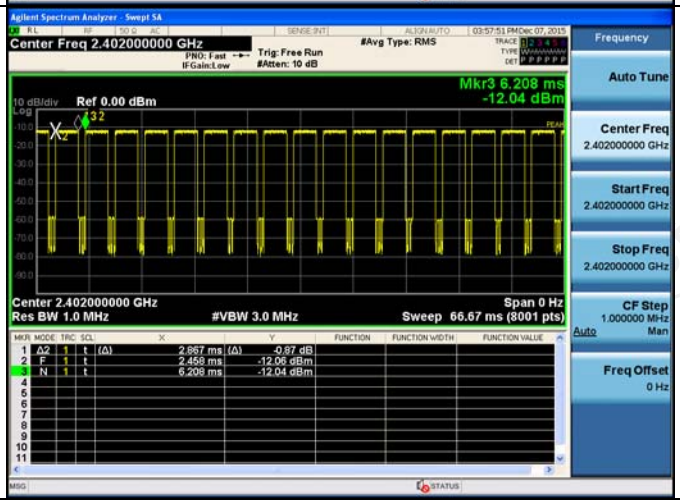
- The duration for dwell time calculation:0.4[s]*hopping number=0.4[s]*79[ch]=31.6[s*ch];
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600/6=266.67 [ch*hop/s]
- The hops per second on one channel: 266.67 [ch*hops/s]/79 [ch]=3.38 [hop/s];
- The total hops for all channels within the dwell time calculation duration:3.38 [hop/s]*31.6[s*ch]=106.67 [hop*ch];
- The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

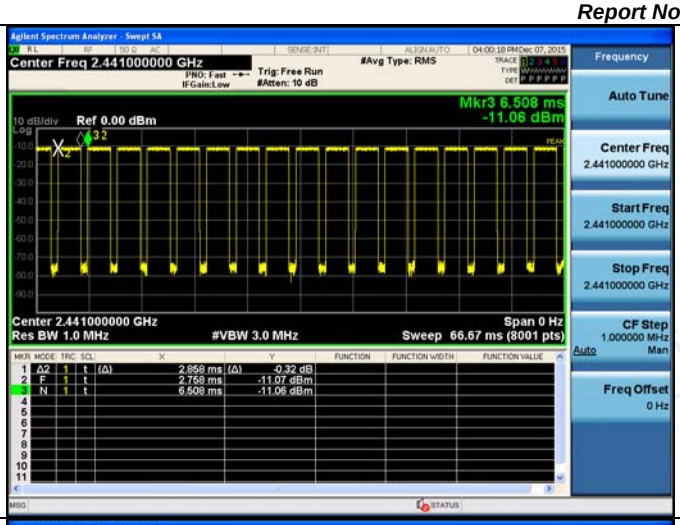
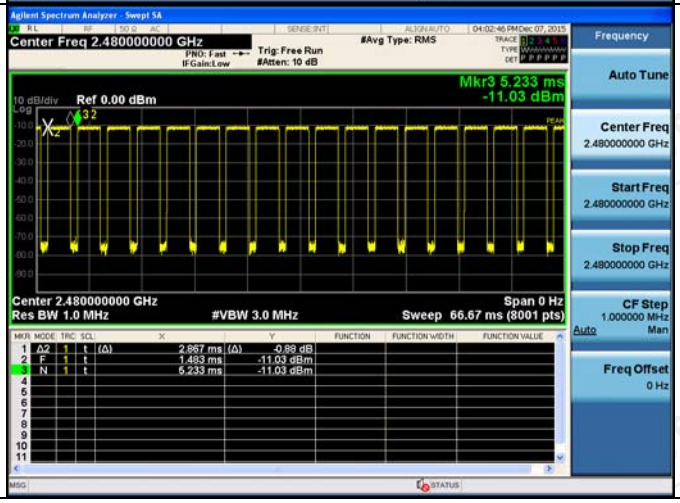
Mode	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
GFSK	LCH	2.858	106.7	0.305	76.22	PASS
GFSK	MCH	2.858	106.7	0.305	76.22	PASS
GFSK	HCH	2.867	106.7	0.306	76.44	PASS
π/4DQPSK	LCH	2.867	106.7	0.306	76.44	PASS
π/4DQPSK	MCH	2.858	106.7	0.305	76.22	PASS
π/4DQPSK	HCH	2.858	106.7	0.305	76.22	PASS
8DPSK	LCH	2.867	106.7	0.306	76.44	PASS
8DPSK	MCH	2.858	106.7	0.305	76.22	PASS
8DPSK	HCH	2.867	106.7	0.306	76.44	PASS

Test Graph

Graphs		
GFSK/LCH		

GFSK/MCH			
GFSK/HCH			
π/4DQPSK/LCH			

π/4DQPSK/MCH			
π/4DQPSK/HCH			
8DPSK/LCH			

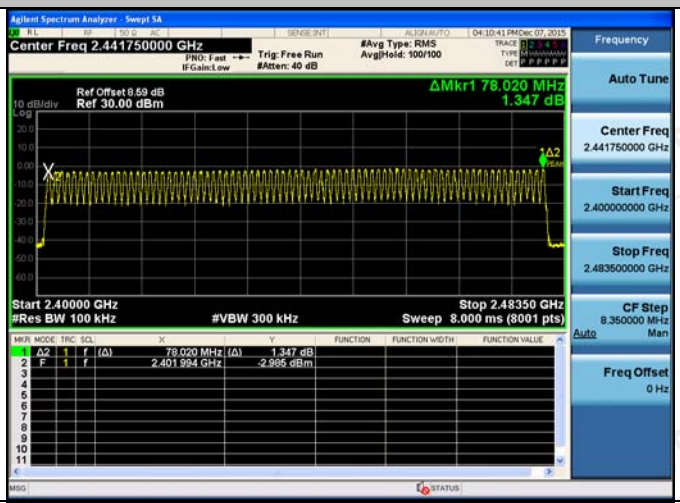
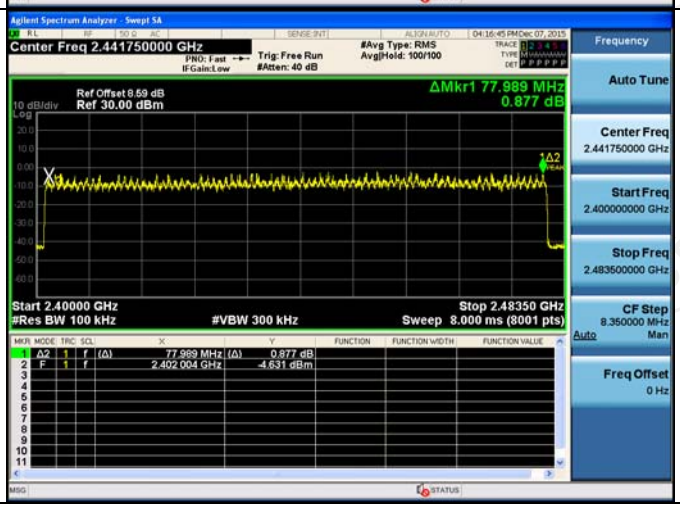
8DPSK/MCH			
8DPSK/HCH			

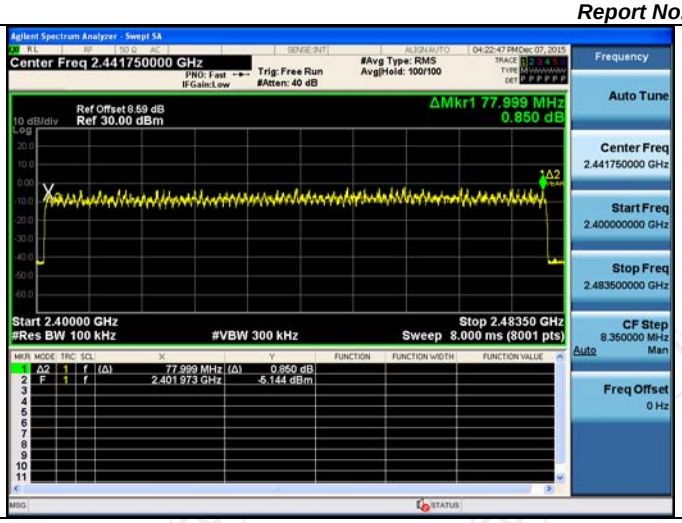
Hopping Channel Number

Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS
π/4DQPSK	Hop	79	PASS
8DPSK	Hop	79	PASS

Test Graph

Graphs			
GFSK/Hop			
π/4DQPSK/Hop			

8DPSK/Hop			

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:22:47 PM Dec 07, 2015
Ref Offset 8.59 dB
10 dB/div
Ref 30.00 dBm
ΔMkr1 77.999 MHz
0.850 dB
Start 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 8.000 ms (8001 pts)
1 Δ2 1 f (Δ) 77.999 MHz (Δ) 0.850 dB
2 F 1 f 2.401 973 GHz -5.144 dBm
Frequency
Auto Tune
Center Freq
2.441750000 GHz
Start Freq
2.400000000 GHz
Stop Freq
2.483500000 GHz
CF Step
8.350000 MHz
Auto
Man
Freq Offset
0 Hz

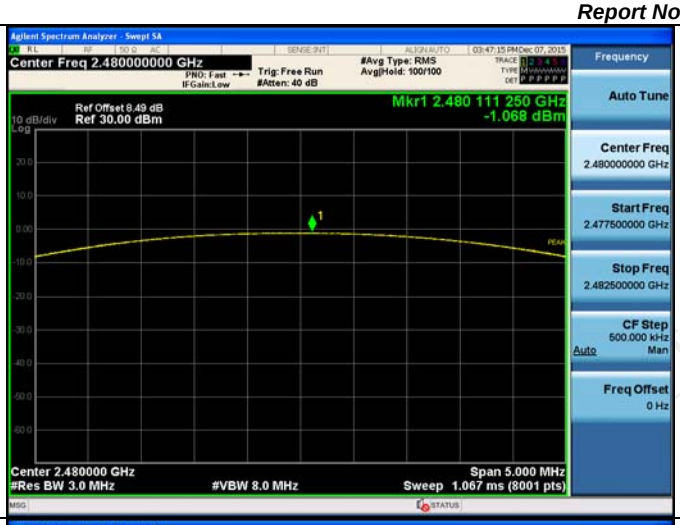
Conducted Peak Output Power

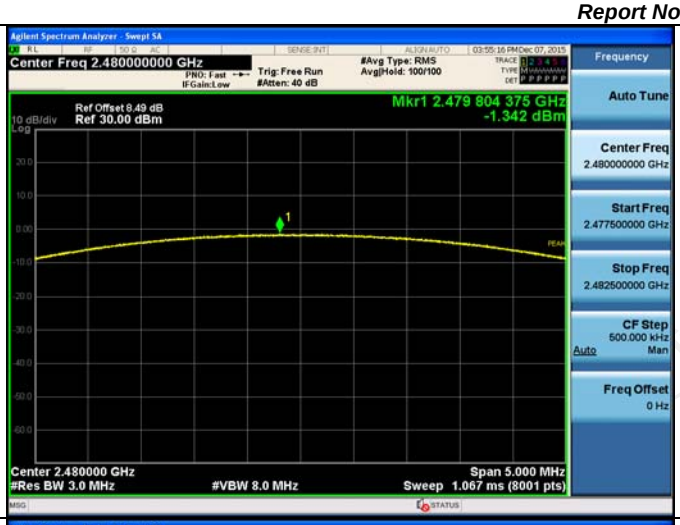
Result Table

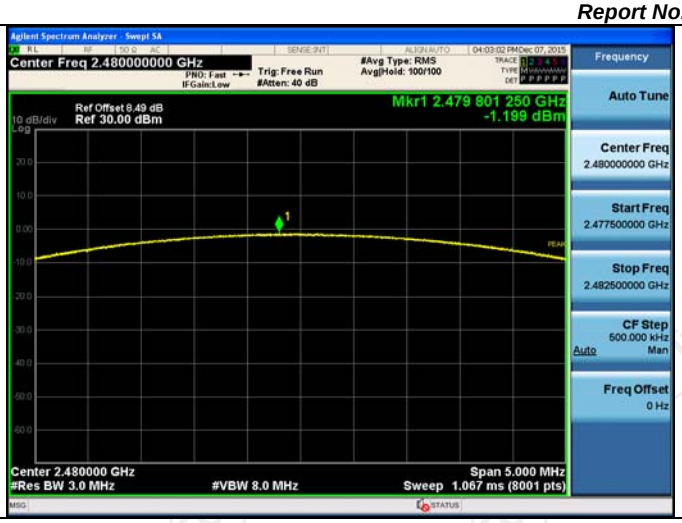
Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	-2.442	PASS
GFSK	MCH	-1.191	PASS
GFSK	HCH	-1.068	PASS
π/4DQPSK	LCH	-2.315	PASS
π/4DQPSK	MCH	-1.508	PASS
π/4DQPSK	HCH	-1.342	PASS
8DPSK	LCH	-2.204	PASS
8DPSK	MCH	-1.303	PASS
8DPSK	HCH	-1.199	PASS

Test Graph

Graphs			
GFSK/LCH			
GFSK/MCH			

GFSK/HCH			
π/4DQPSK/LCH			
π/4DQPSK/MCH			

π/4DQPSK/HCH			
8DPSK/LCH			
8DPSK/MCH			

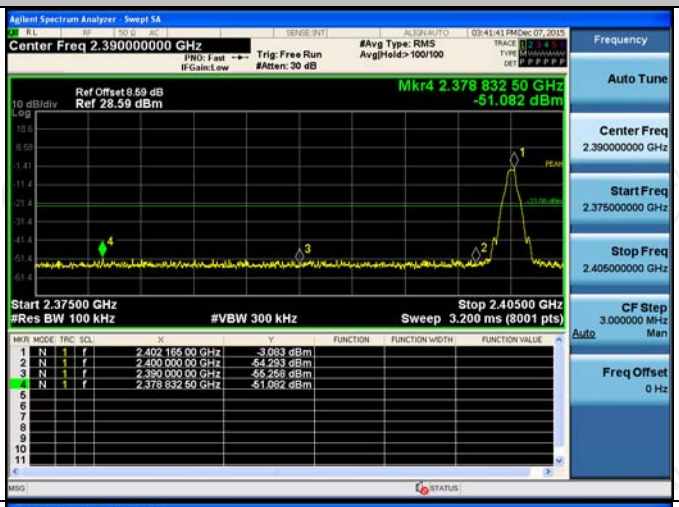
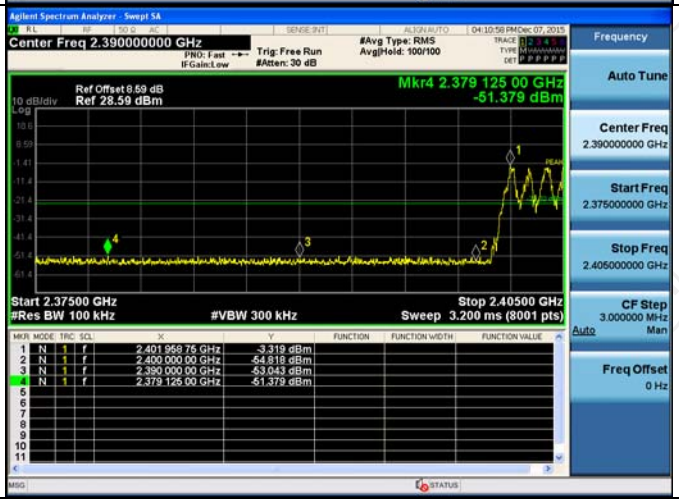
8DPSK/HCH		 Agilent Spectrum Analyzer - Swept SA Center Freq 2.480000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 40 dB #Avg Type: RMS Avg|Hold: 100/100 Ref Offset 8.49 dB 10 dB/div Ref 30.00 dBm Log Mkr1 2.479 801 250 GHz -1.199 dBm Center 2.480000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Span 5.000 MHz Sweep 1.067 ms (8001 pts) Frequency Auto Tune Center Freq 2.480000000 GHz Start Freq 2.477500000 GHz Stop Freq 2.482500000 GHz CF Step 500.000 kHz Auto Man Freq Offset 0 Hz	

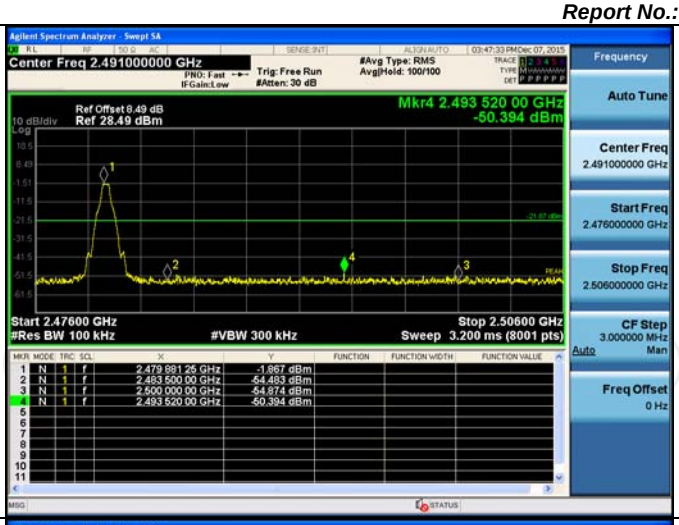
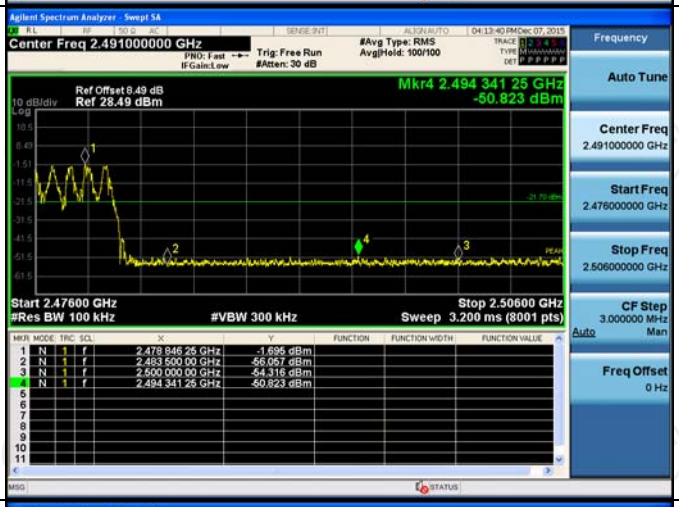
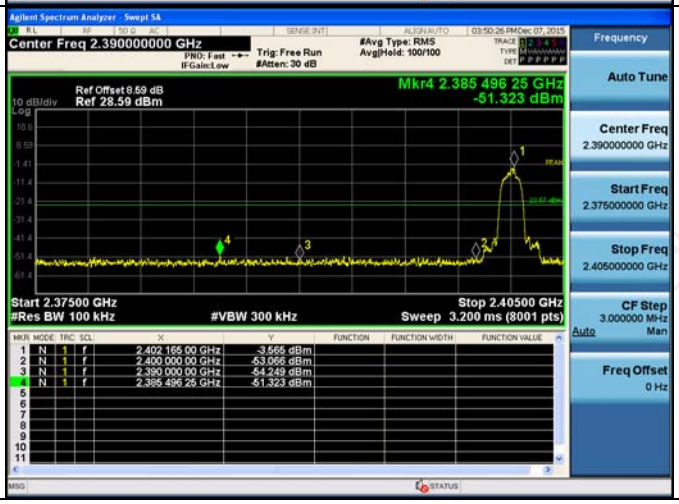
Band-edge for RF Conducted Emissions

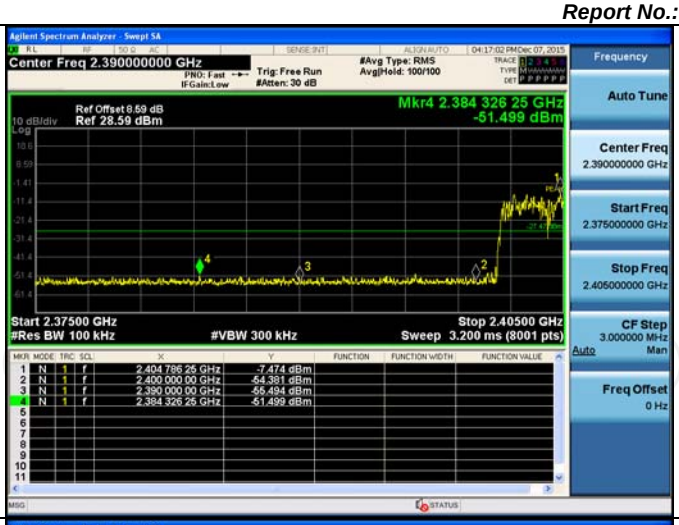
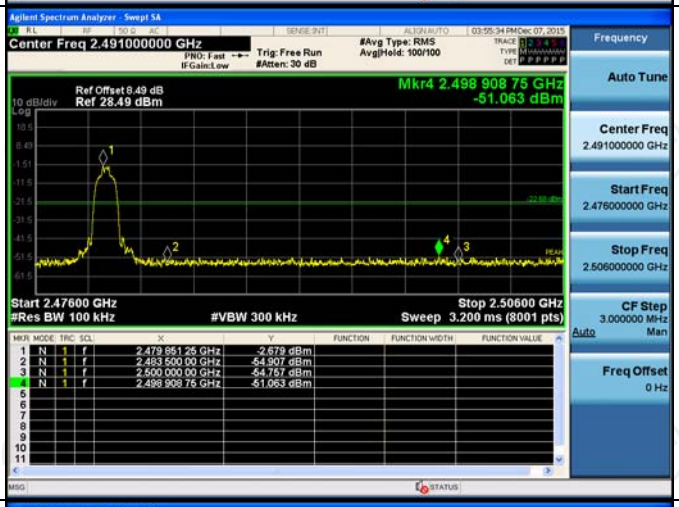
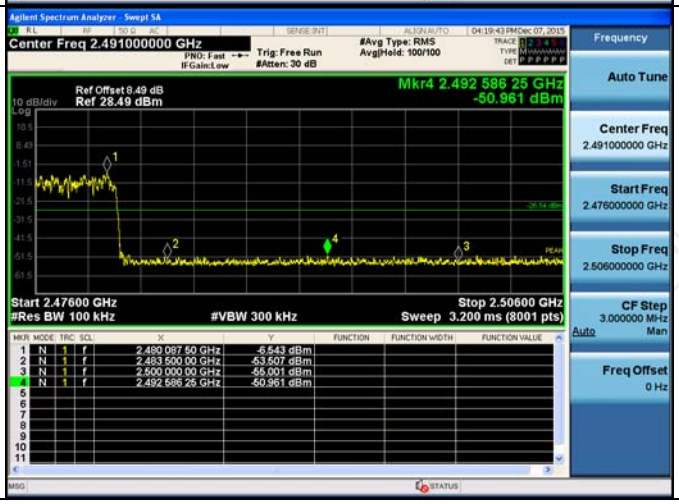
Result Table

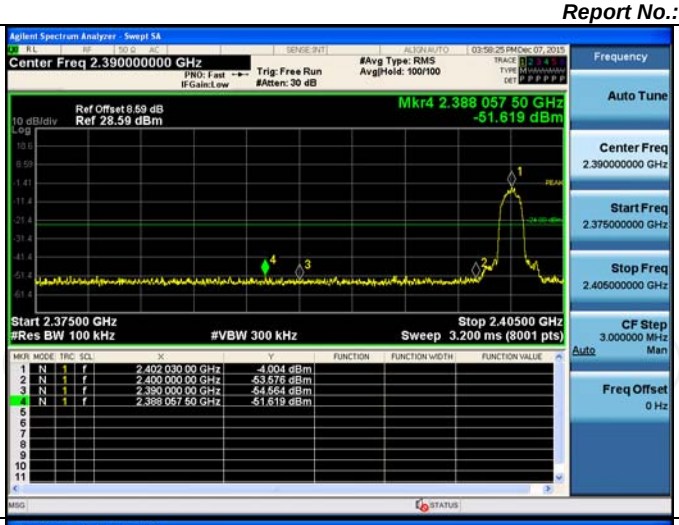
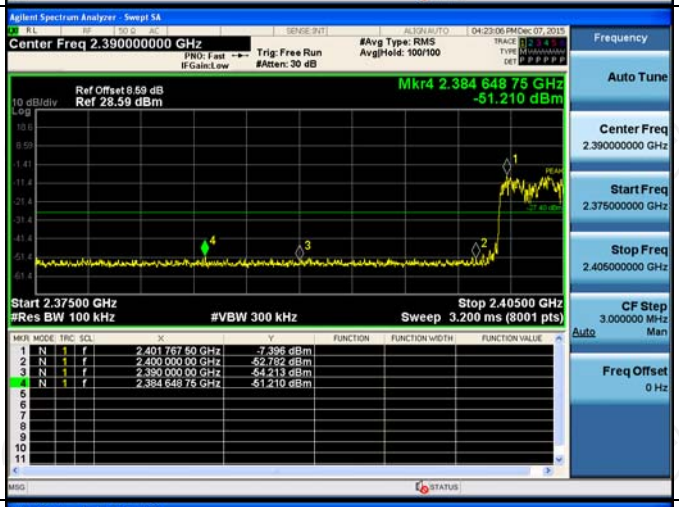
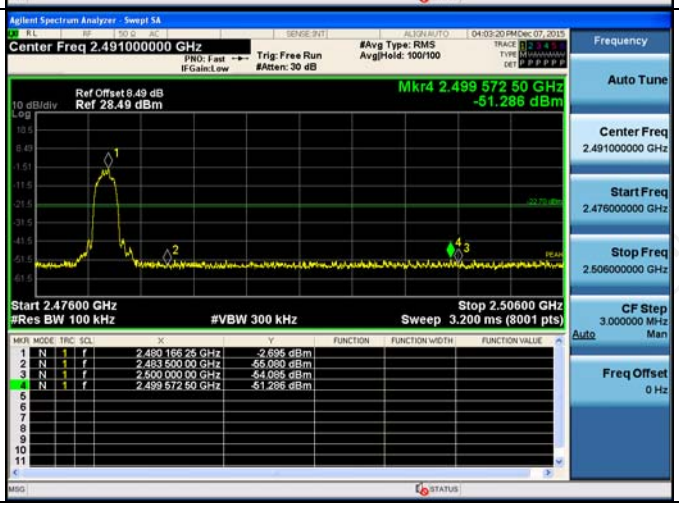
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-3.083	Off	-51.082	-23.08	PASS
			-3.319	On	-51.379	-23.32	PASS
GFSK	HCH	2480	-1.867	Off	-50.394	-21.87	PASS
			-1.695	On	-50.823	-21.7	PASS
π/4DQPSK	LCH	2402	-3.565	Off	-51.323	-23.57	PASS
			-7.474	On	-51.499	-27.47	PASS
π/4DQPSK	HCH	2480	-2.679	Off	-51.063	-22.68	PASS
			-6.543	On	-50.961	-26.54	PASS
8DPSK	LCH	2402	-4.004	Off	-51.619	-24	PASS
			-7.396	On	-51.210	-27.4	PASS
8DPSK	HCH	2480	-2.695	Off	-51.286	-22.7	PASS
			-6.061	On	-51.484	-26.06	PASS

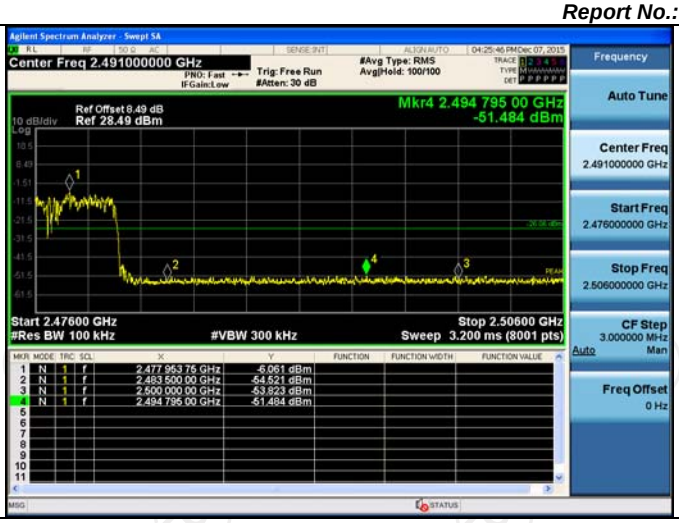
Test Graph

Graphs		
GFSK/LCH/No Hop		
GFSK/LCH/Hop		

GFSK/HCH/No Hop			
GFSK/HCH/Hop			
π/4DQPSK/LCH/No Hop			

π/4DQPSK/LCH/Hop			
π/4DQPSK/HCH/No Hop			
π/4DQPSK/HCH/Hop			

8DPSK/LCH/No Hop			
8DPSK/LCH/Hop			
8DPSK/HCH/No Hop			

8DPSK/HCH/Hop			

RF Conducted Spurious Emissions

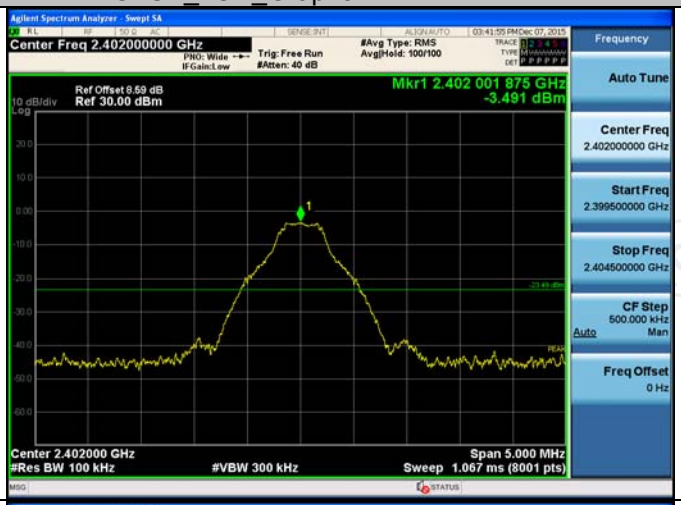
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-3.491	<Limit	PASS
GFSK	MCH	-2.212	<Limit	PASS
GFSK	HCH	-2.062	<Limit	PASS
π/4DQPSK	LCH	-3.749	<Limit	PASS
π/4DQPSK	MCH	-3.541	<Limit	PASS
π/4DQPSK	HCH	-2.809	<Limit	PASS
8DPSK	LCH	-5.705	<Limit	PASS
8DPSK	MCH	-2.912	<Limit	PASS
8DPSK	HCH	-3.12	<Limit	PASS

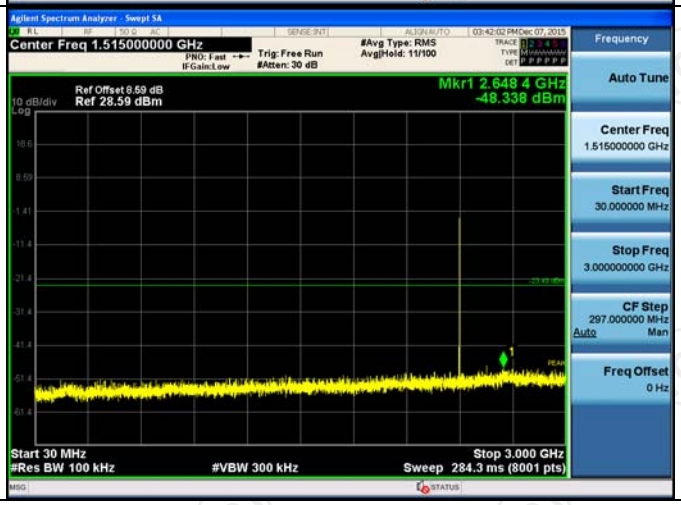
Test Graph

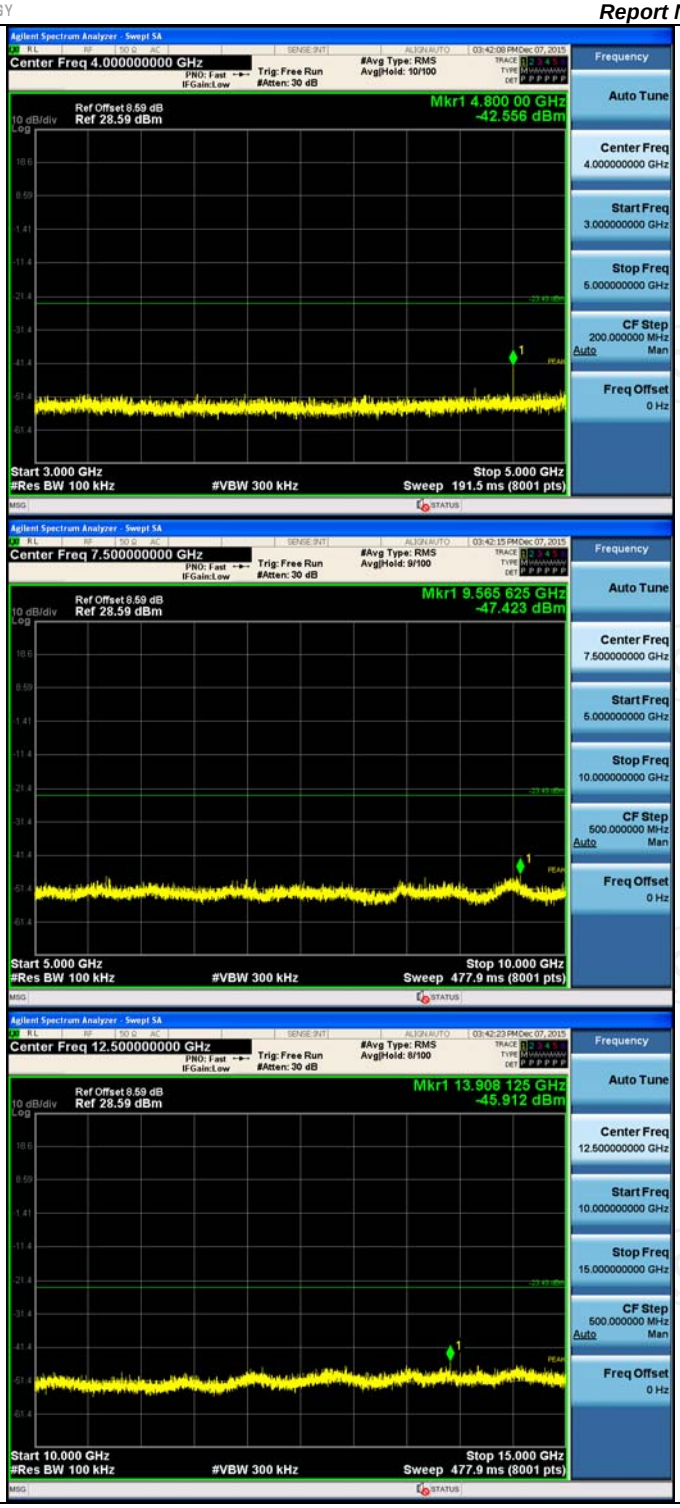
GFSK_LCH_Graphs

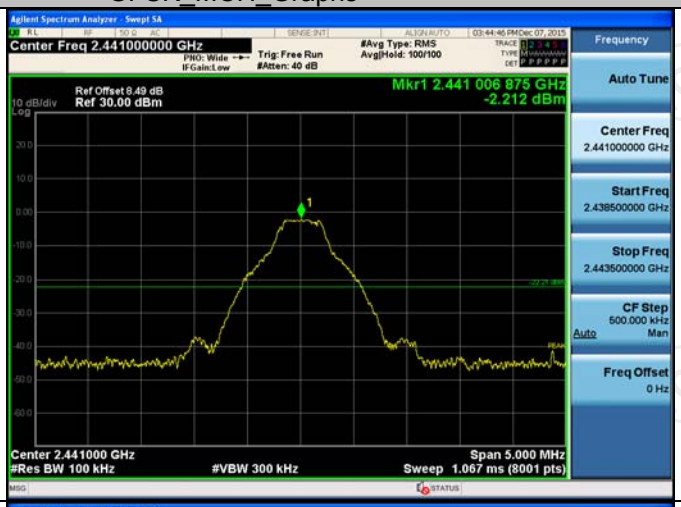
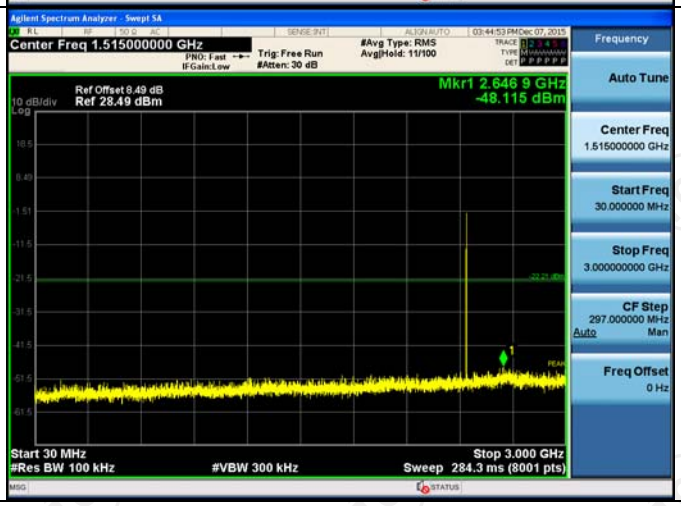
Pref

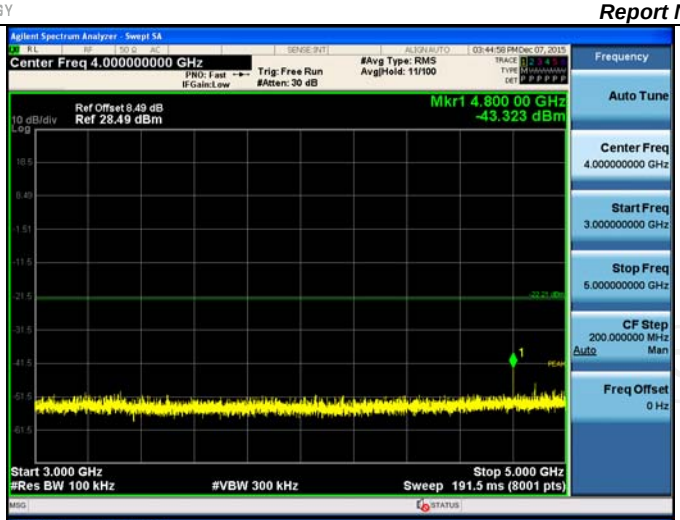


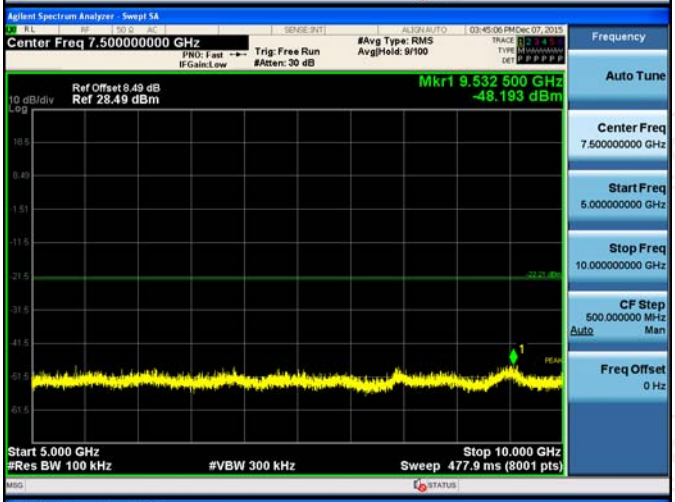
Puw

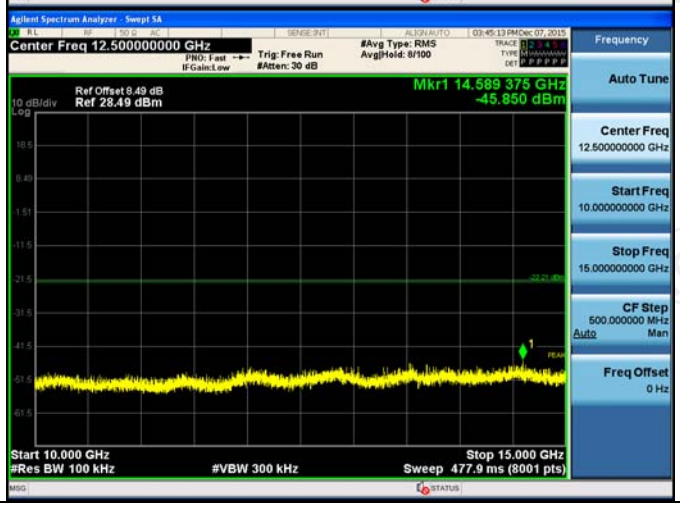



Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/100
03:42:08 PM Dec 07, 2015
Frequency
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 4.800 00 GHz
-42.556 dBm
Auto Tune
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
03:42:15 PM Dec 07, 2015
Frequency
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 9.565 625 GHz
-47.423 dBm
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
03:42:23 PM Dec 07, 2015
Frequency
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 13.908 125 GHz
-45.912 dBm
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

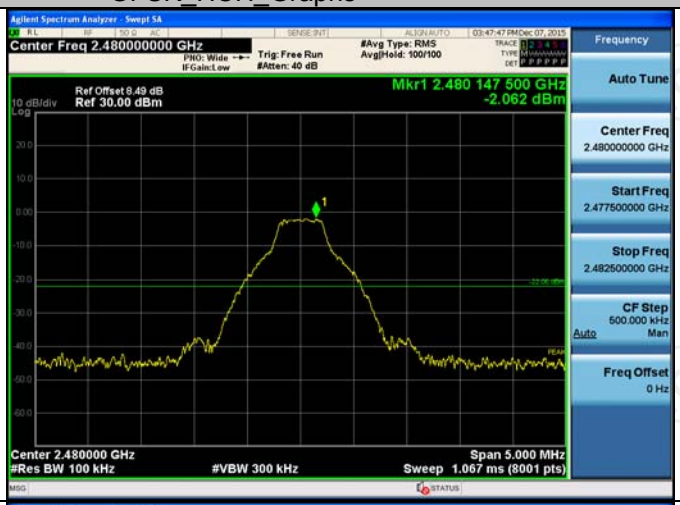
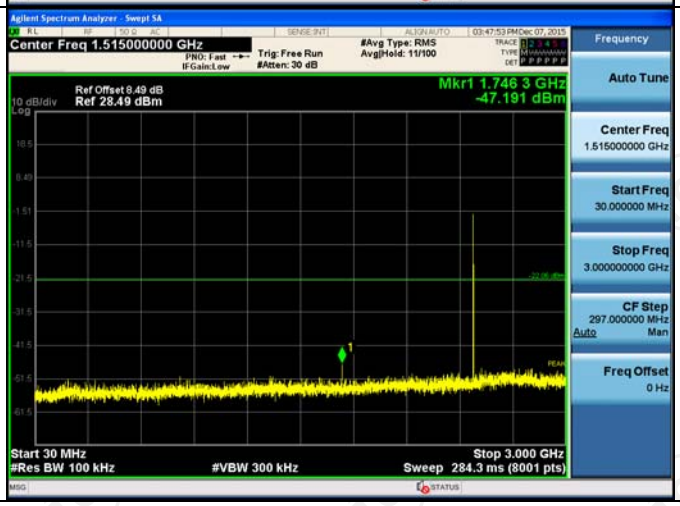
		
GFSK_MCH_Graphs		
Pref		
Puw		

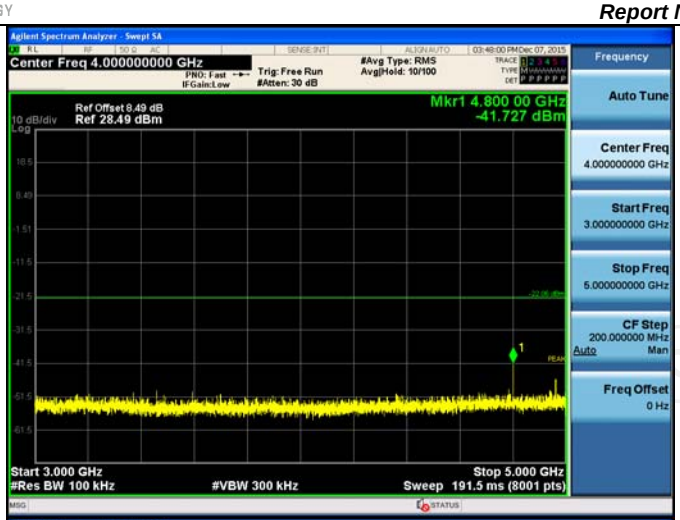

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-43.323 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
Frequency
Auto Tune
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz

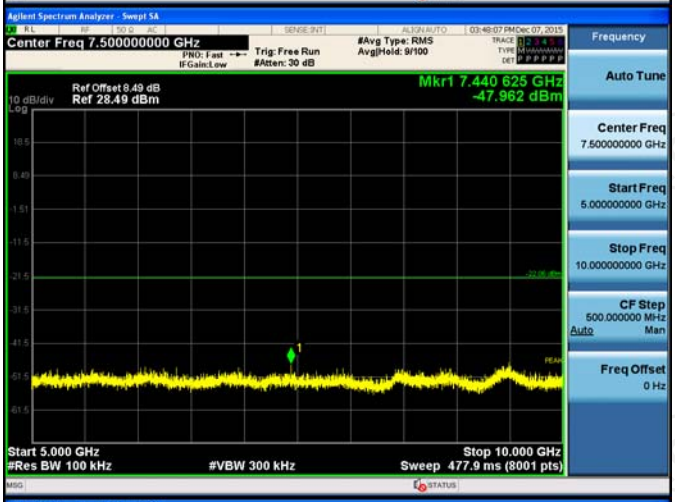

Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 9.532 500 GHz
-48.193 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

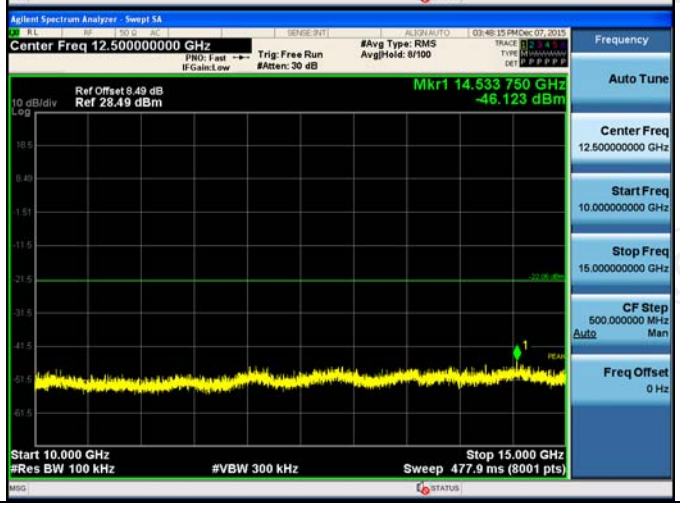

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 14.589 375 GHz
-45.850 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

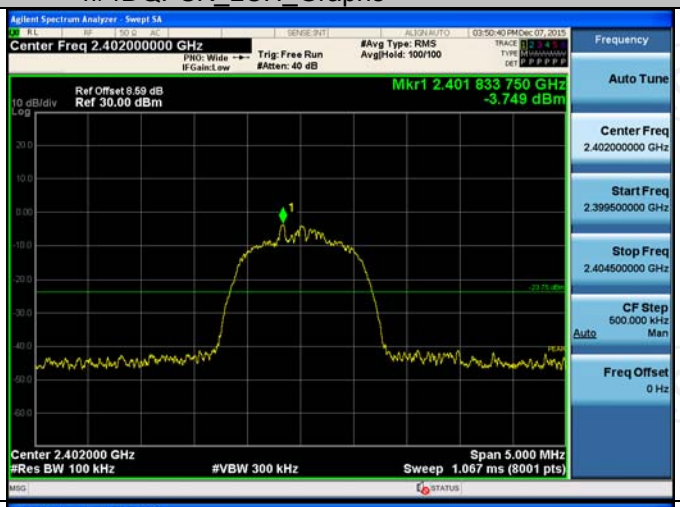
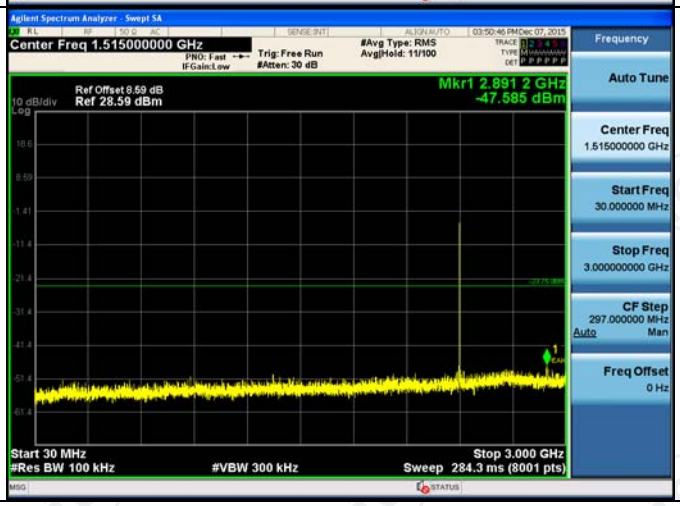
GFSK_HCH_Graphs		
Pref		
Puw		

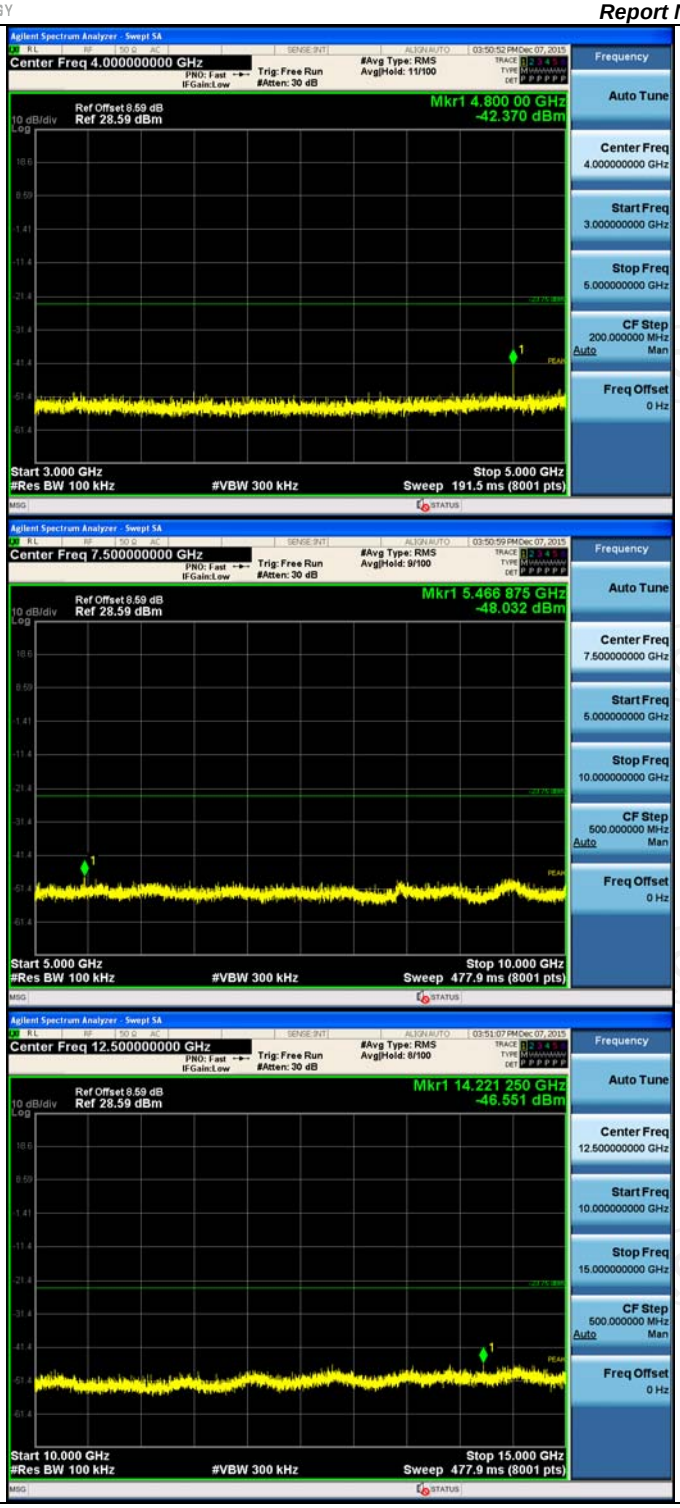

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/100
03:48:00 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-41.727 dBm
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)


Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
03:48:07 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 7.440 625 GHz
-47.962 dBm
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)

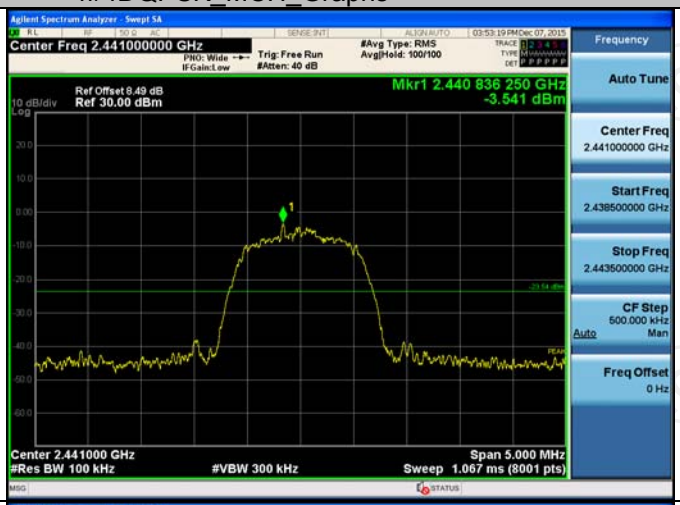
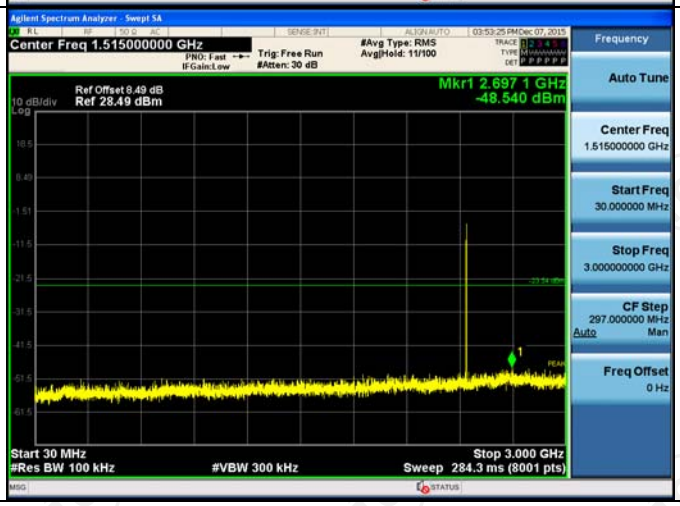

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
03:48:15 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 14.533 750 GHz
-46.123 dBm
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

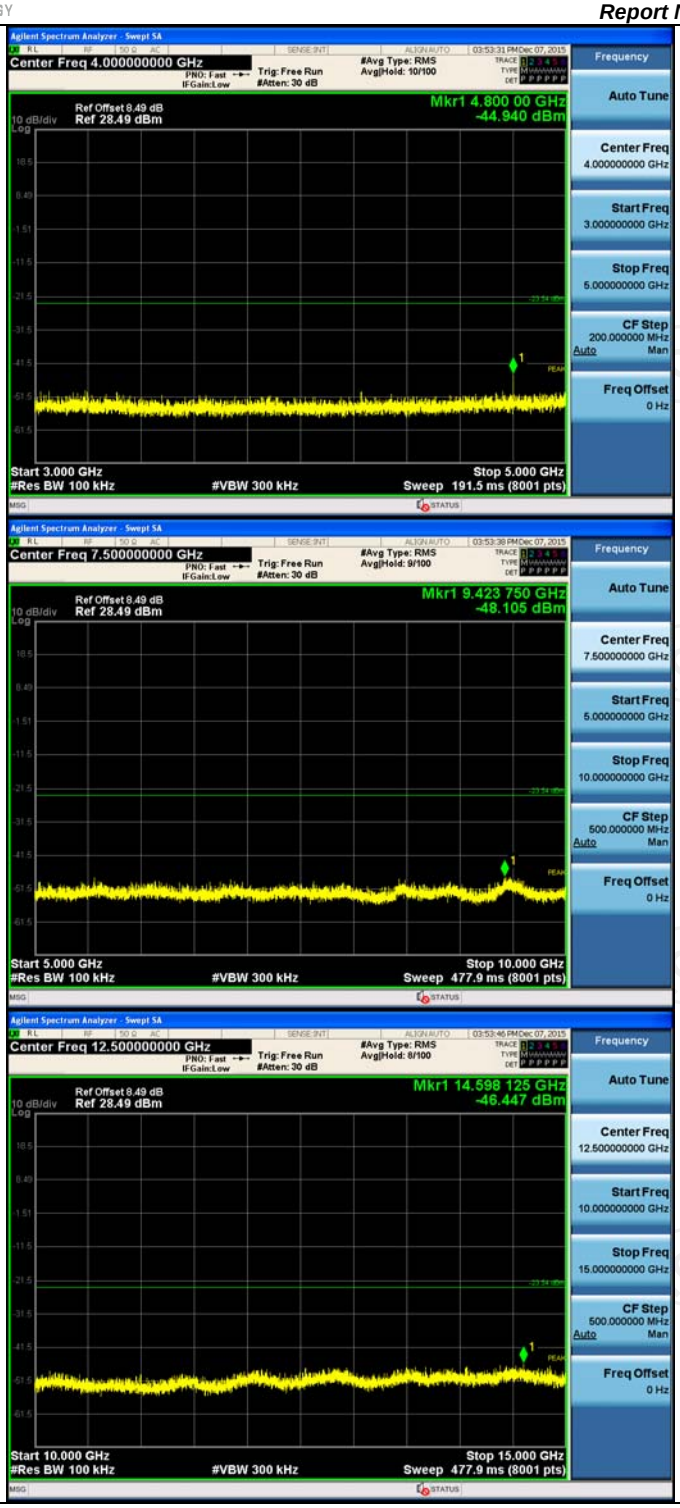
		

π/4DQPSK_LCH_Graphs		
Pref		
Puw		

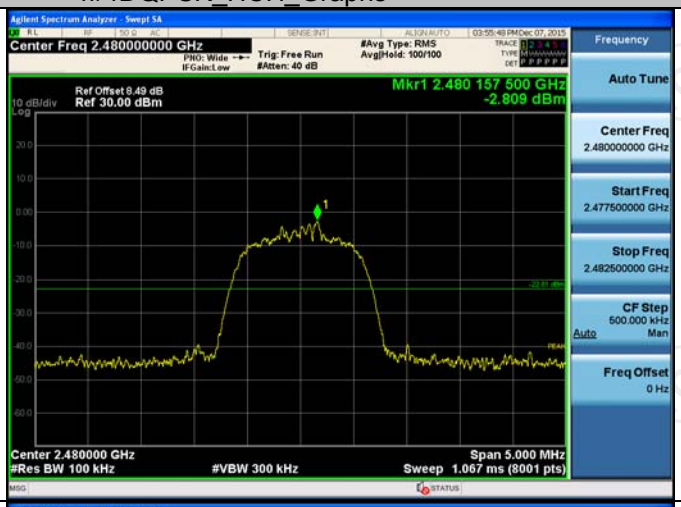
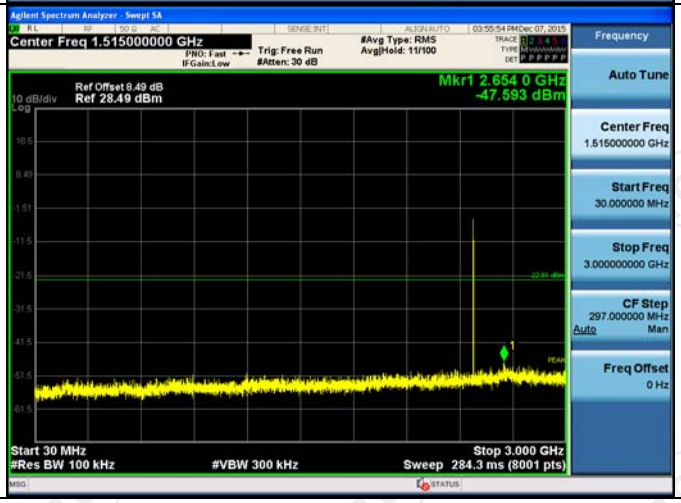

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 11/100
03:50:52 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 4.800 00 GHz
-42.370 dBm
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
03:50:59 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 5.466 875 GHz
-48.032 dBm
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
03:51:07 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 14.221 250 GHz
-46.551 dBm
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

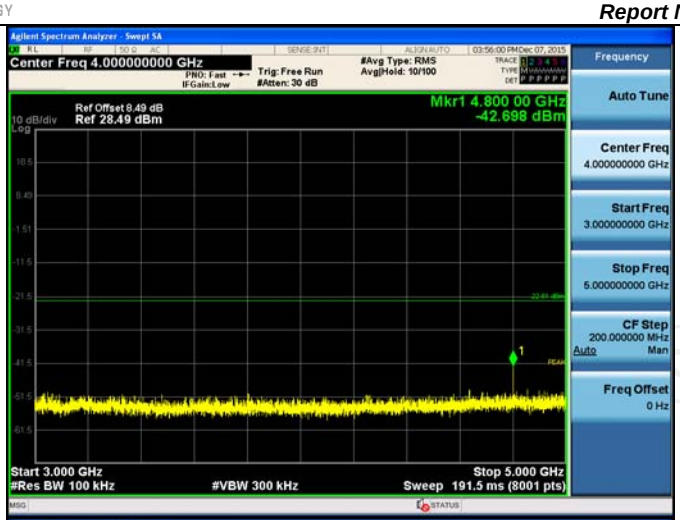
		

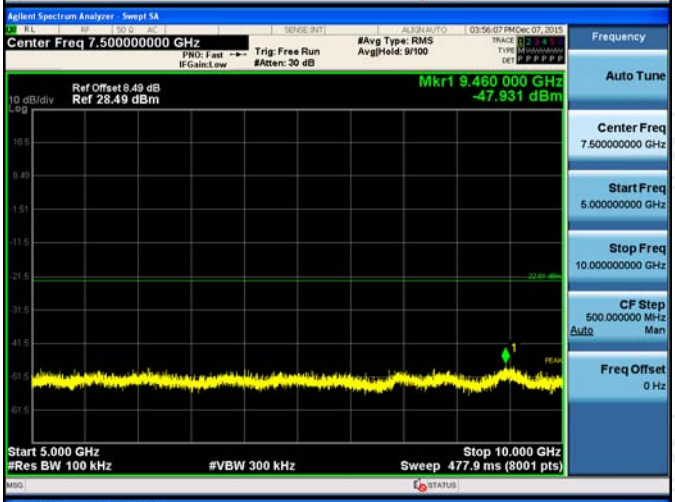
π/4DQPSK_MCH_Graphs		
Pref		
Puw		

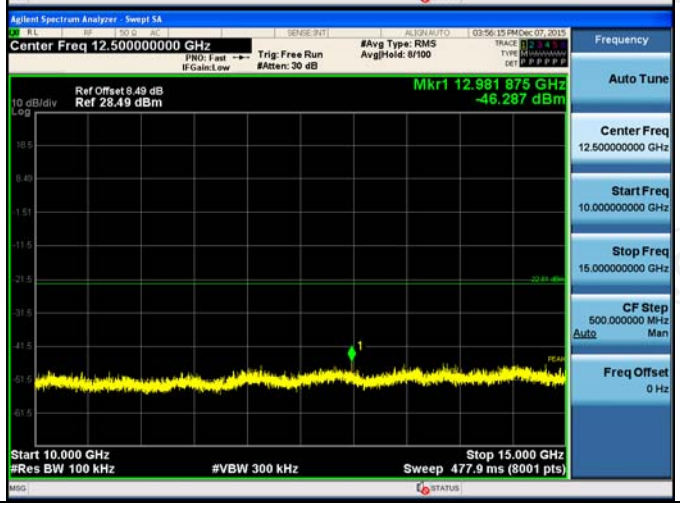

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/100
03:53:31 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-44.940 dBm
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
03:53:38 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 9.423 750 GHz
-48.105 dBm
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)
Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
03:53:46 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 14.598 125 GHz
-46.447 dBm
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

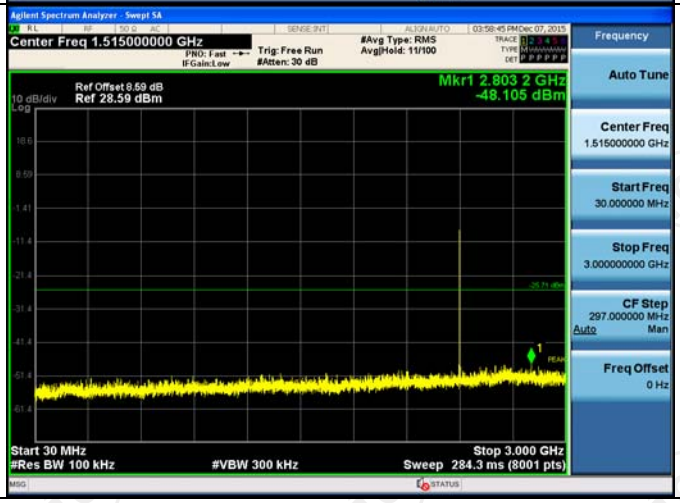
π/4DQPSK_HCH_Graphs		
Pref		
Puw		

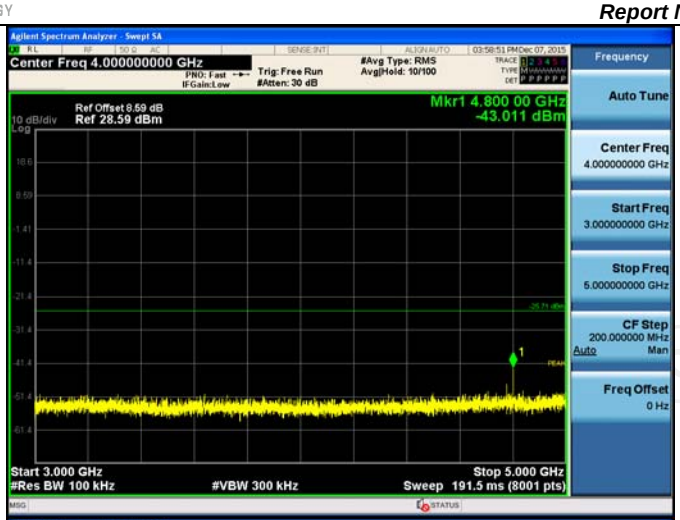

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/100
03:56:00 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-42.698 dBm
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)

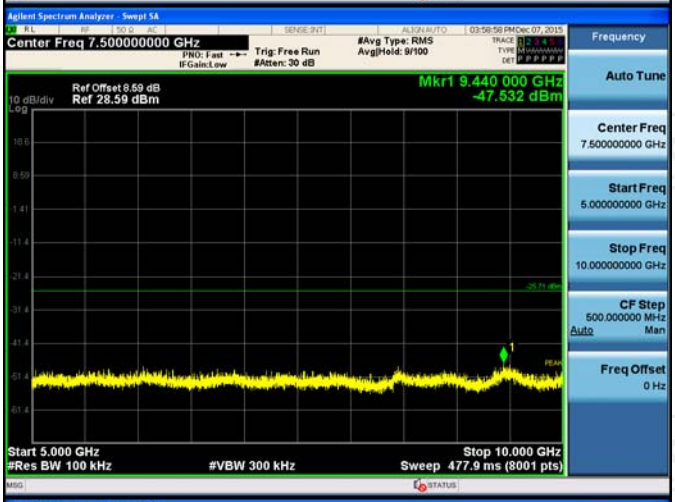

Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
03:56:07 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 9.460 000 GHz
-47.931 dBm
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)

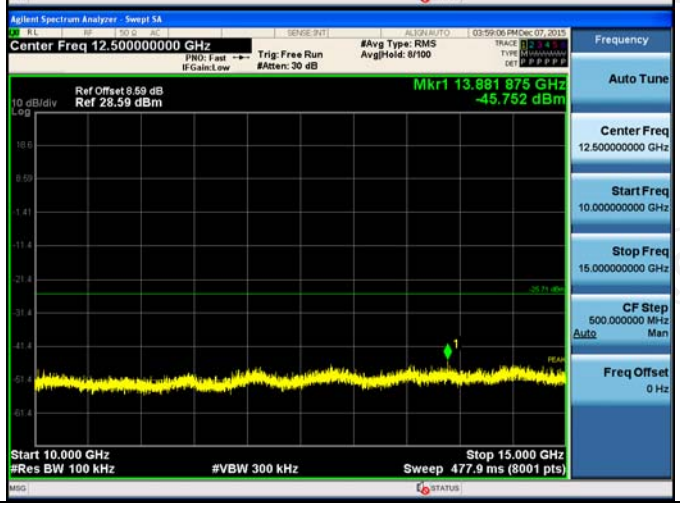

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
03:56:15 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 12.981 875 GHz
-46.287 dBm
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

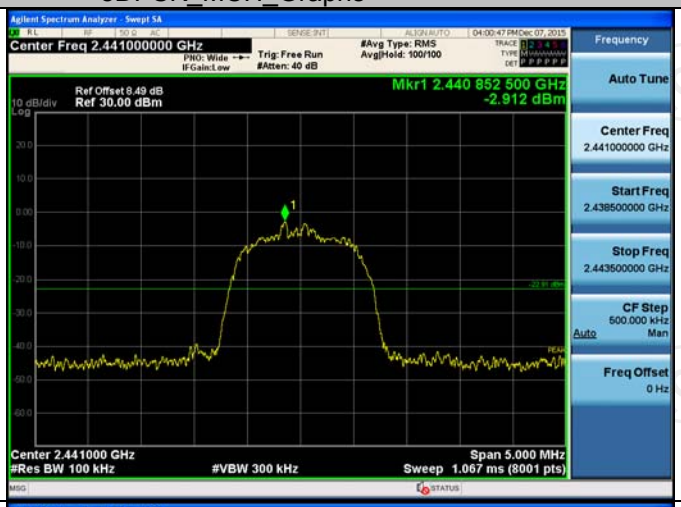
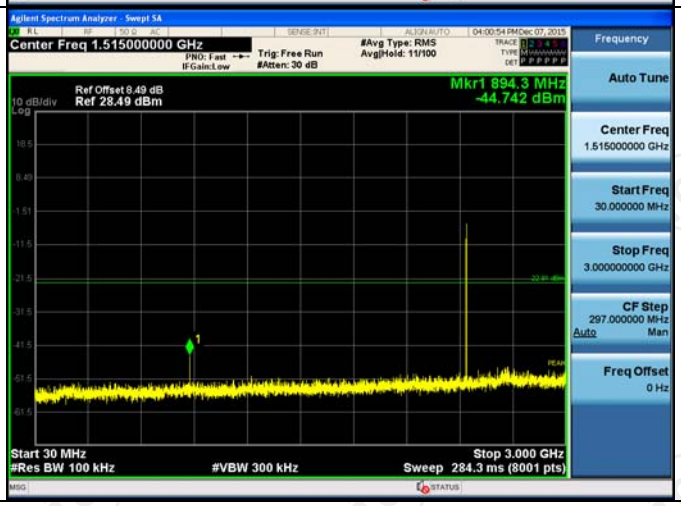
8DPSK_LCH_Graphs		
Pref		
Puw		

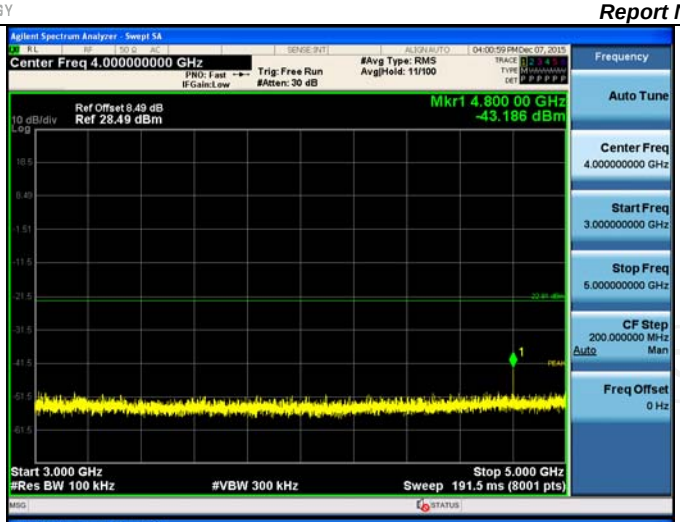

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/100
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 4.800 00 GHz
-43.011 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
Frequency
Auto Tune
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz

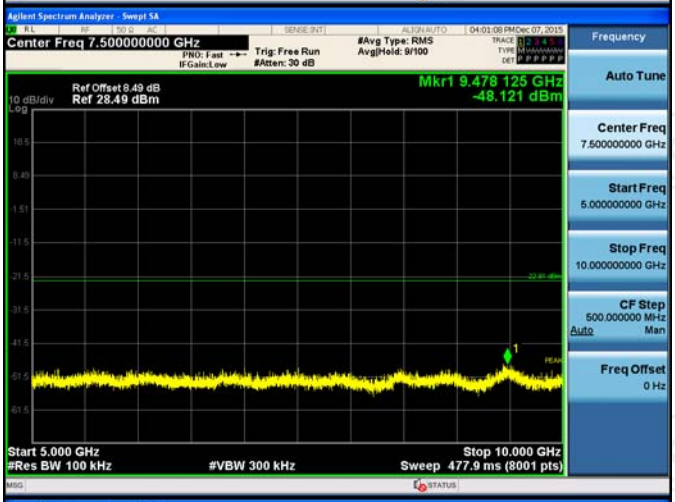

Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 9.440 000 GHz
-47.532 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)
Frequency
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

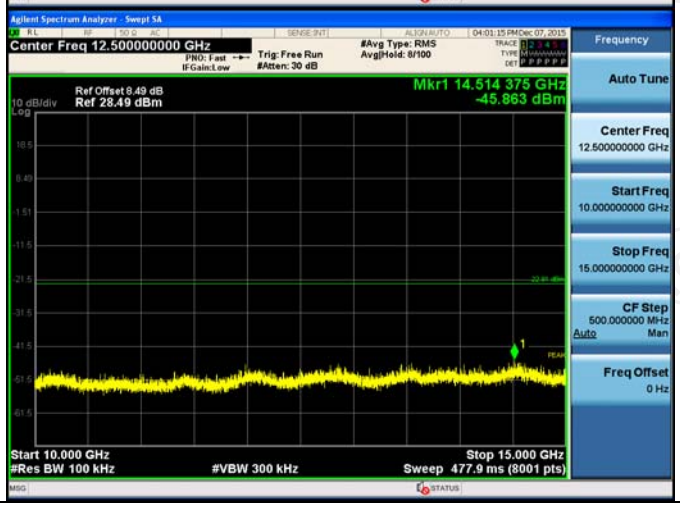

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
Ref Offset 8.59 dB
10 dB/div
Ref 28.59 dBm
Mkr1 13.881 875 GHz
-45.752 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)
Frequency
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz

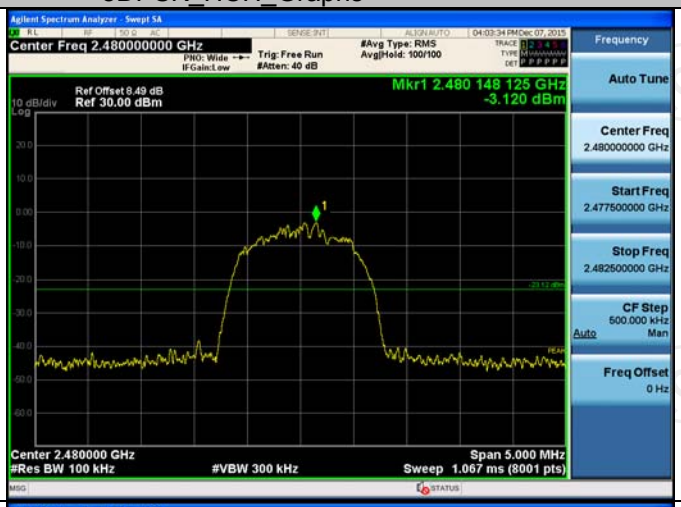
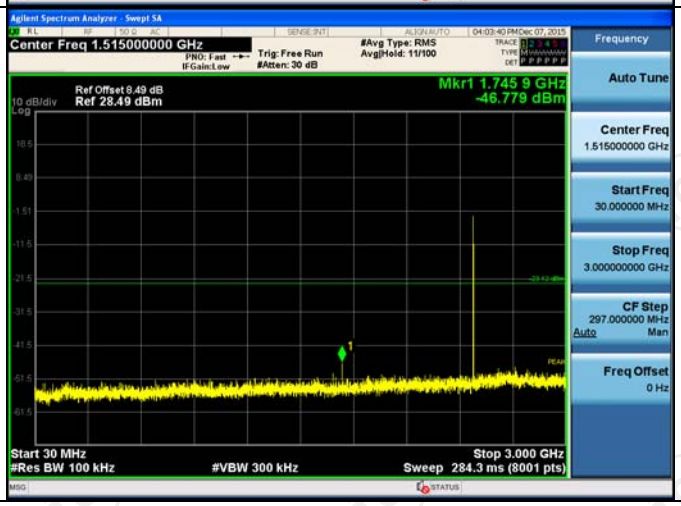
8DPSK_MCH_Graphs		
Pref		
Puw		

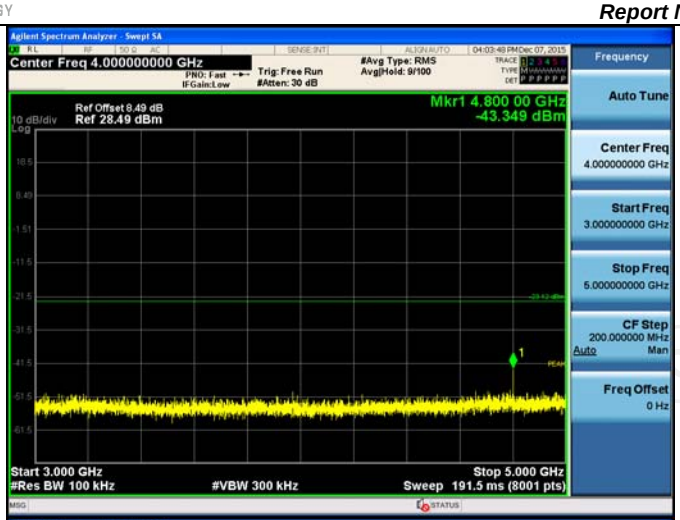

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 11/100
04:00:59 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-43.186 dBm
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)

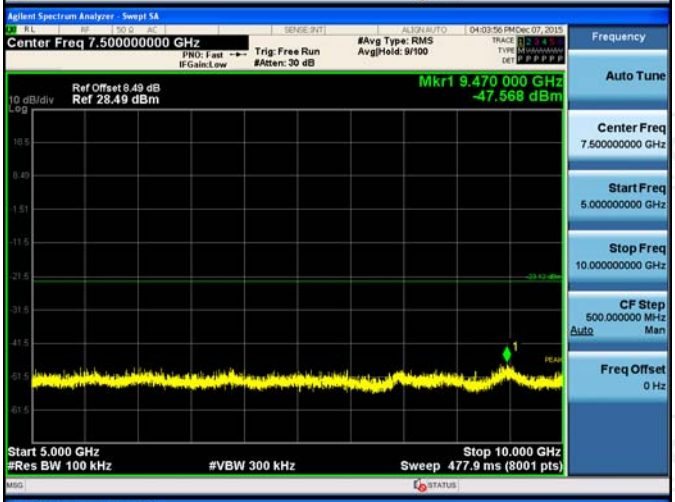

Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
04:01:08 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 9.478 125 GHz
-48.121 dBm
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)

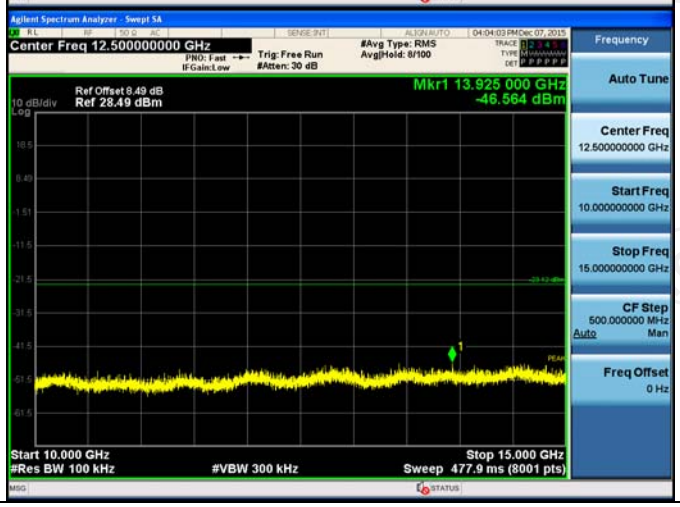

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
04:01:15 PM Dec 07, 2015
Frequency
Auto Tune
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 14.514 375 GHz
-45.863 dBm
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

8DPSK_HCH_Graphs		
Pref		
Puw		


Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
04:03:48 PM Dec 07, 2015
Frequency
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 4.800 00 GHz
-43.349 dBm
Auto Tune
Center Freq
4.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
5.000000000 GHz
CF Step
200.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)


Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
04:03:56 PM Dec 07, 2015
Frequency
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 9.470 000 GHz
-47.568 dBm
Auto Tune
Center Freq
7.500000000 GHz
Start Freq
5.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 pts)


Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 8/100
04:04:03 PM Dec 07, 2015
Frequency
Ref Offset 8.49 dB
10 dB/div
Ref 28.49 dBm
Mkr1 13.925 000 GHz
-46.564 dBm
Auto Tune
Center Freq
12.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
15.000000000 GHz
CF Step
500.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 pts)

********END OF REPORT********