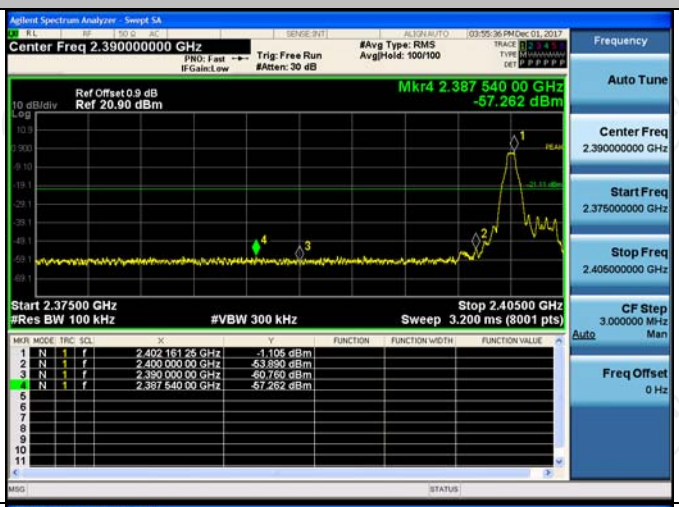
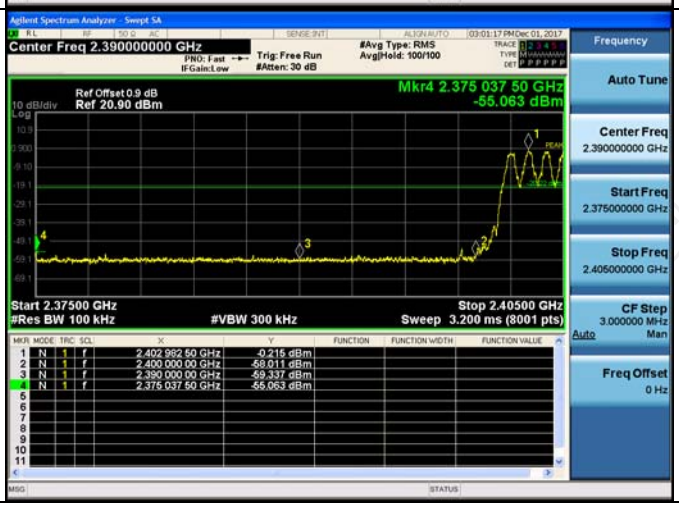
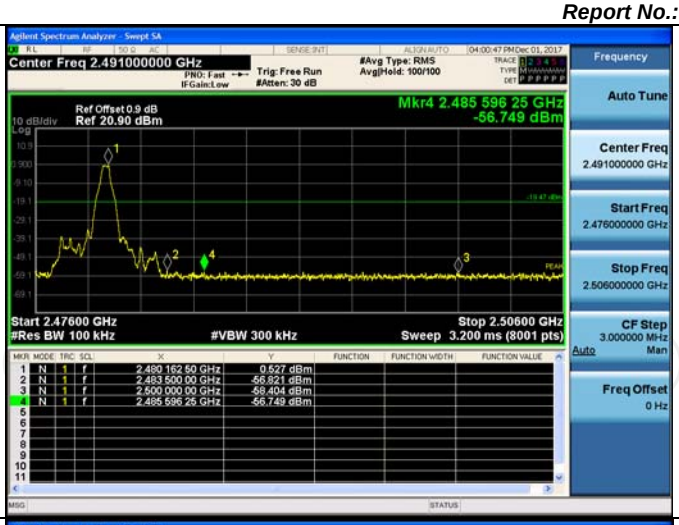
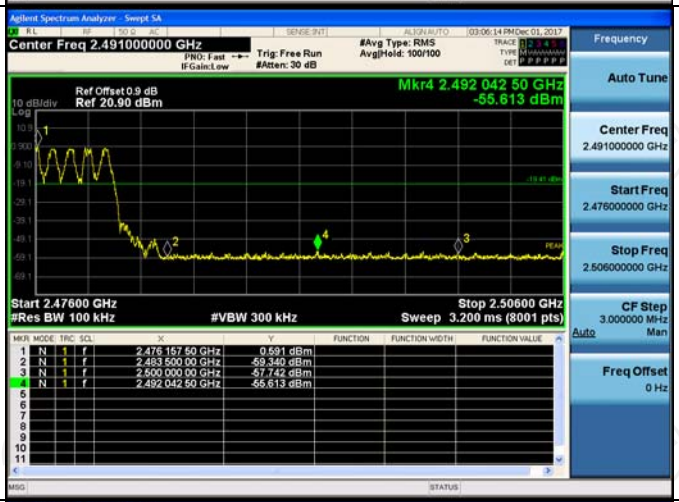
Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-1.105	Off	-57.262	-21.11	PASS
			-0.215	On	-55.063	-20.22	PASS
GFSK	HCH	2480	0.527	Off	-56.749	-19.47	PASS
			0.591	On	-55.613	-19.41	PASS
π/4DQPSK	LCH	2402	-1.116	Off	-57.168	-21.12	PASS
			-5.974	On	-56.439	-25.97	PASS
π/4DQPSK	HCH	2480	0.090	Off	-56.165	-19.91	PASS
			0.074	On	-55.004	-19.93	PASS
8DPSK	LCH	2402	-1.117	Off	-56.935	-21.12	PASS
			-0.002	On	-56.692	-20	PASS
8DPSK	HCH	2480	0.228	Off	-55.767	-19.77	PASS
			0.219	On	-56.320	-19.78	PASS

Test Graph

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

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

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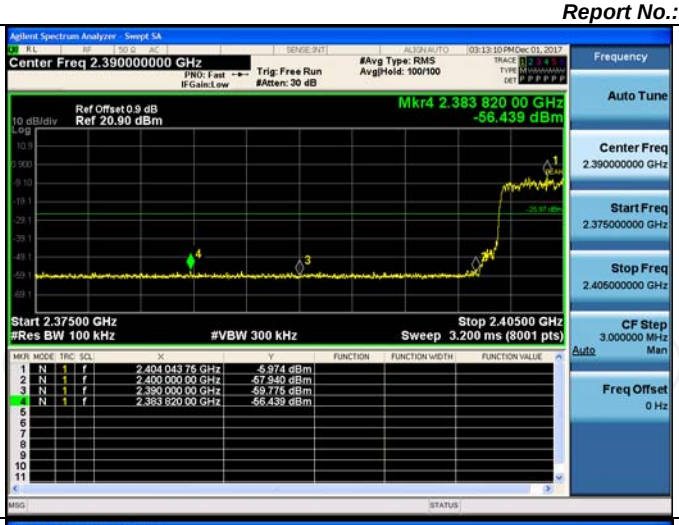
π/4DQPSK/LCH/Hop			
π/4DQPSK/HCH/No Hop			
π/4DQPSK/HCH/Hop			

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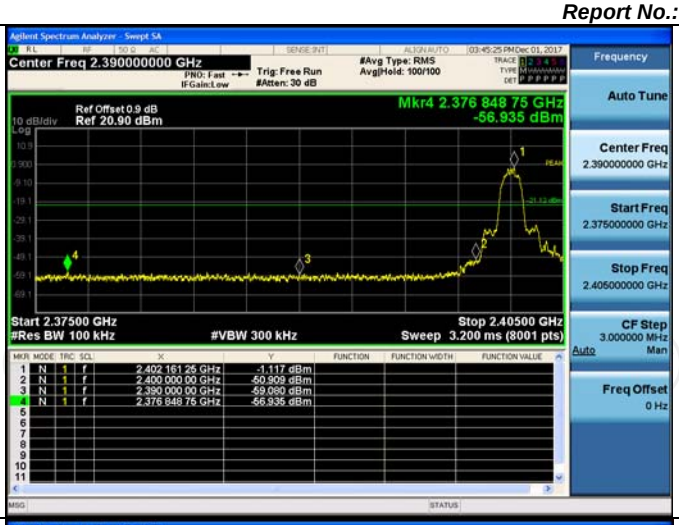
8DPSK/LCH/No Hop			
8DPSK/LCH/Hop			
8DPSK/HCH/No Hop			

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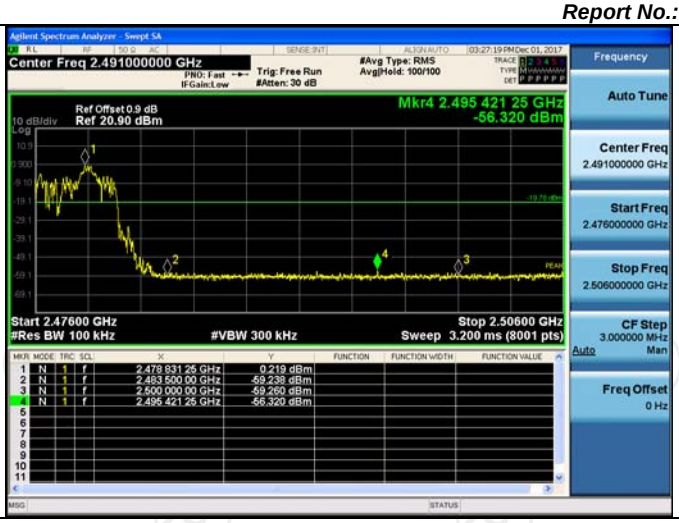
8DPSK/HCH/Hop			

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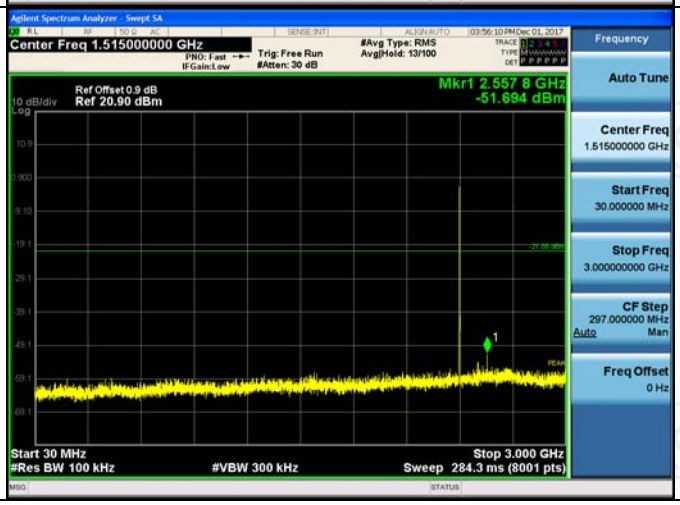
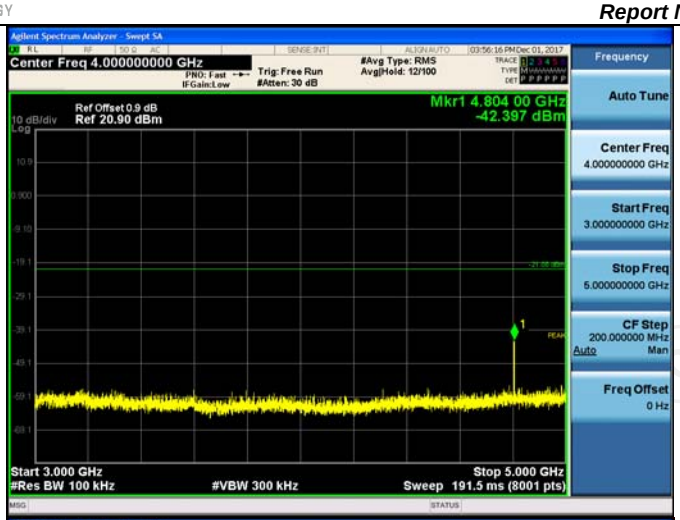
RF Conducted Spurious Emissions

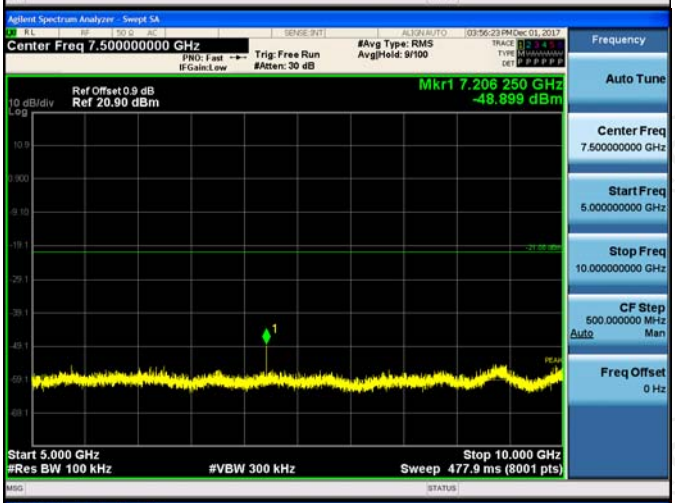
Result Table

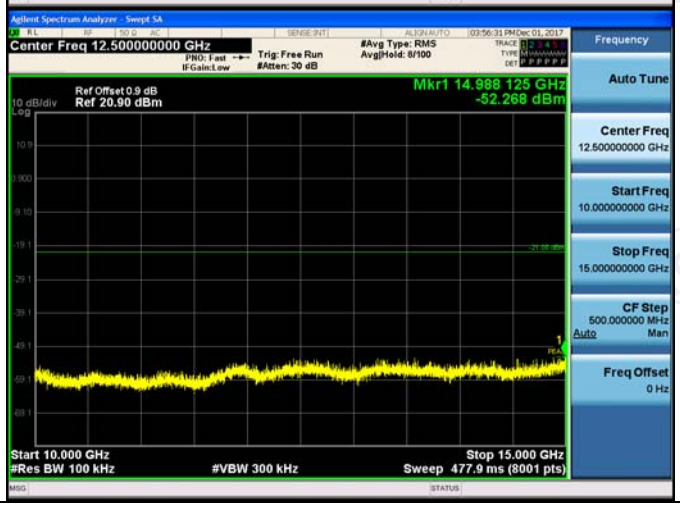
Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
GFSK	LCH	-1.078	<Limit	PASS
GFSK	MCH	0.939	<Limit	PASS
GFSK	HCH	0.275	<Limit	PASS
π/4DQPSK	LCH	-1.264	<Limit	PASS
π/4DQPSK	MCH	0.432	<Limit	PASS
π/4DQPSK	HCH	0.059	<Limit	PASS
8DPSK	LCH	-2.718	<Limit	PASS
8DPSK	MCH	0.561	<Limit	PASS
8DPSK	HCH	0.23	<Limit	PASS

Test Graph

GFSK_LCH_Graphs		
Pref		
Puw		







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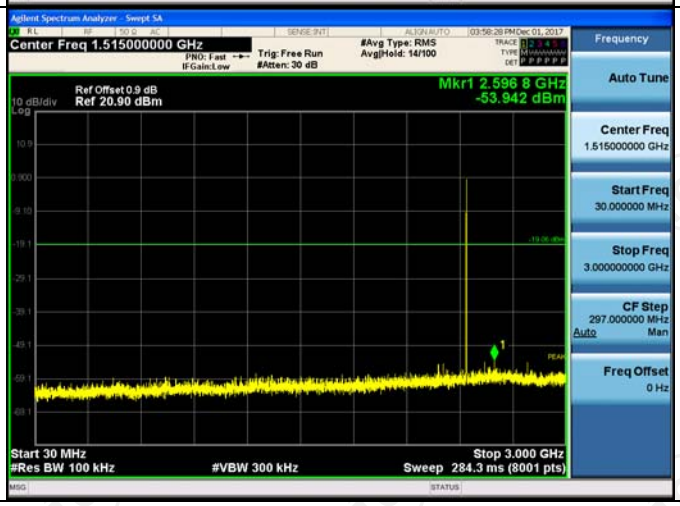
GFSK_MCH_Graphs		
Pref		
Puw		

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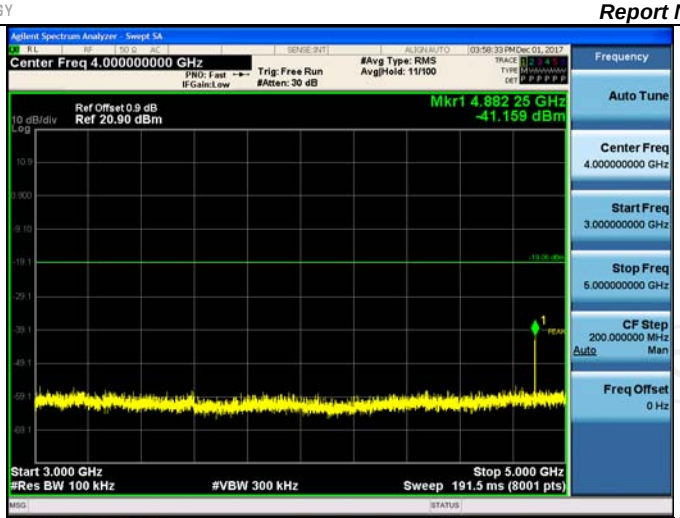
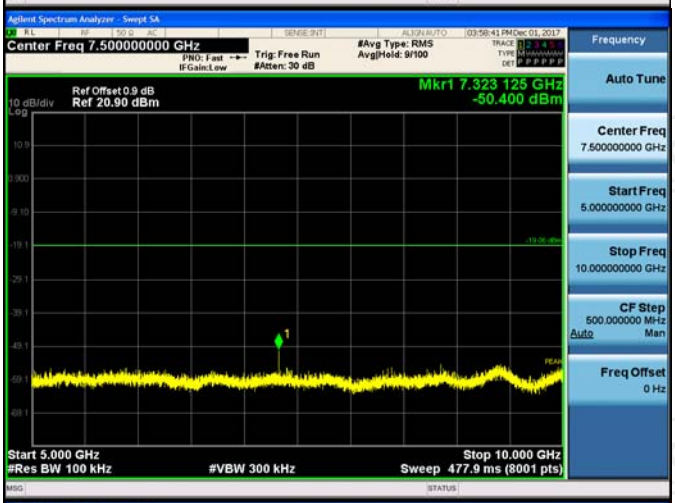
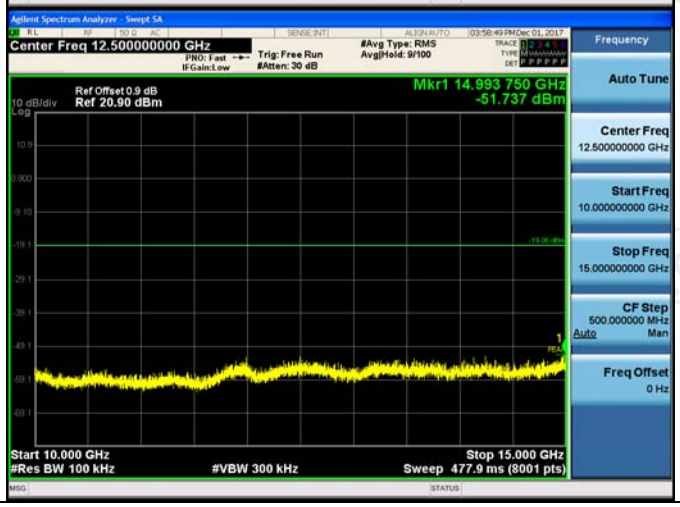
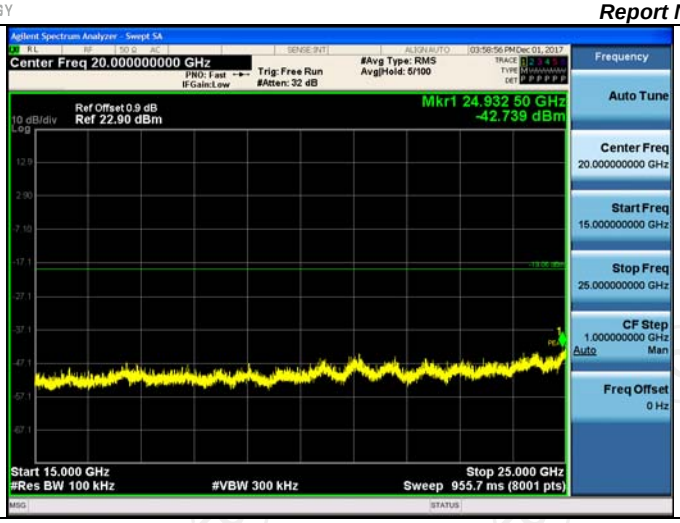
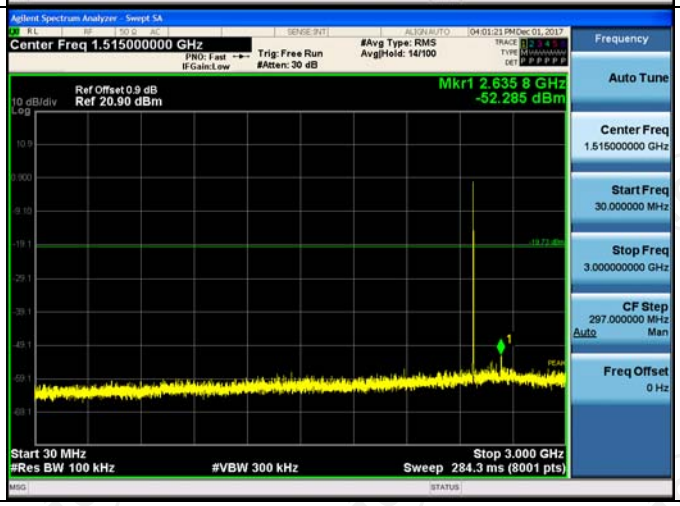
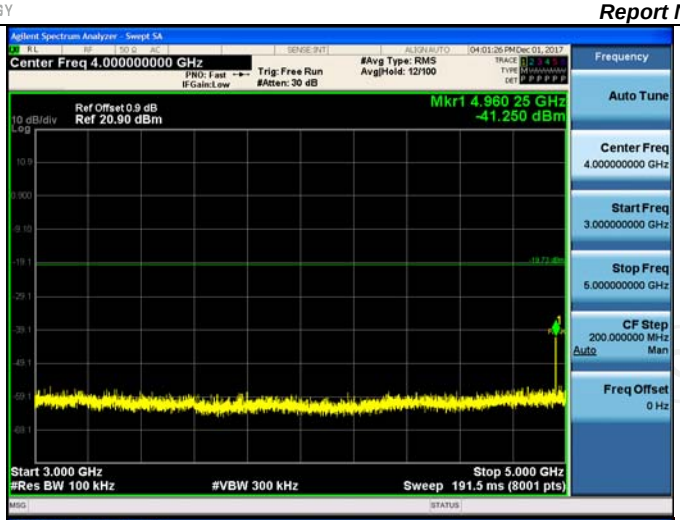

Agilent Spectrum Analyzer - Swept SA
Center Freq 4.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 0.9 dB
10 dB/div Ref 20.90 dBm
Mkr1 4.892 25 GHz
-41.159 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 191.5 ms (8001 pts)
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

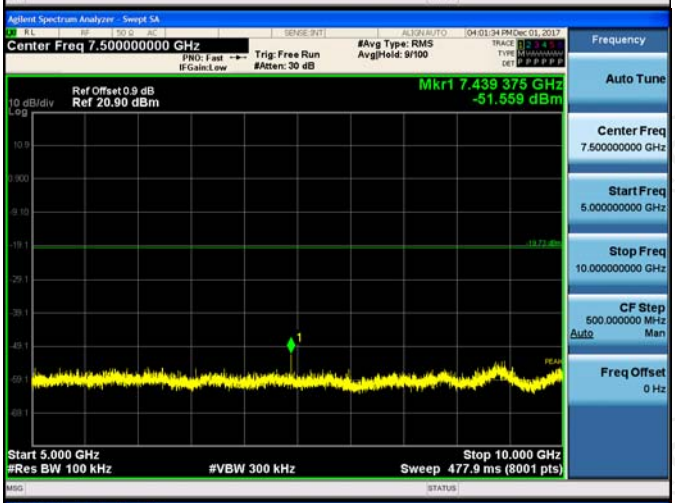

Agilent Spectrum Analyzer - Swept SA
Center Freq 7.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
Ref Offset 0.9 dB
10 dB/div Ref 20.90 dBm
Mkr1 7.323 125 GHz
-50.400 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 477.9 ms (8001 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

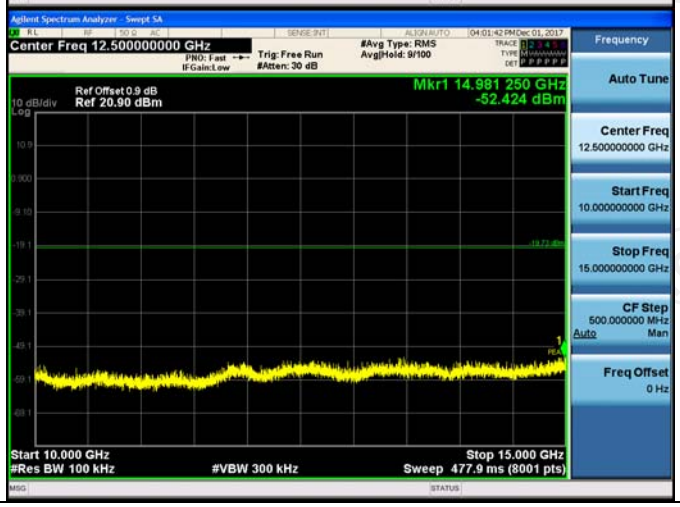

Agilent Spectrum Analyzer - Swept SA
Center Freq 12.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 9/100
Ref Offset 0.9 dB
10 dB/div Ref 20.90 dBm
Mkr1 14.993 750 GHz
-51.737 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 477.9 ms (8001 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		







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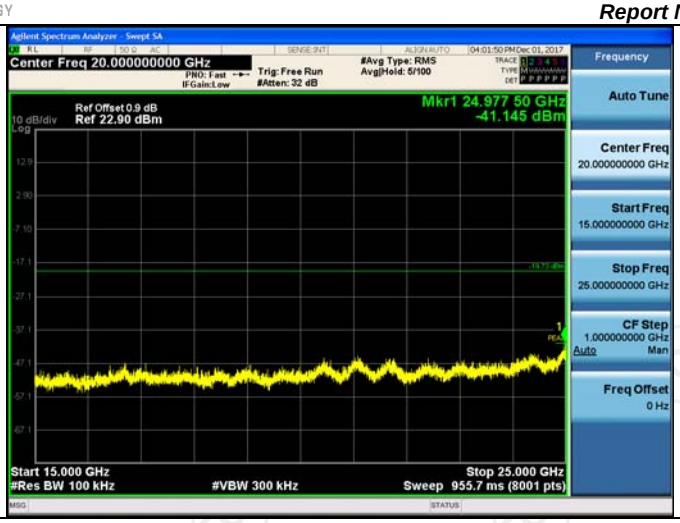
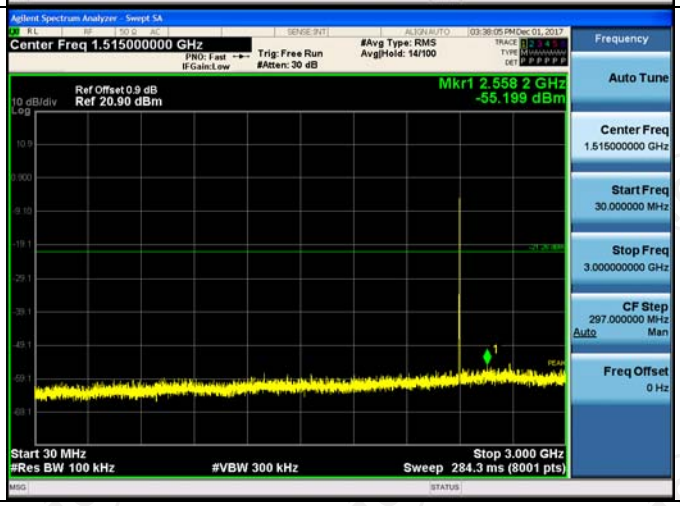
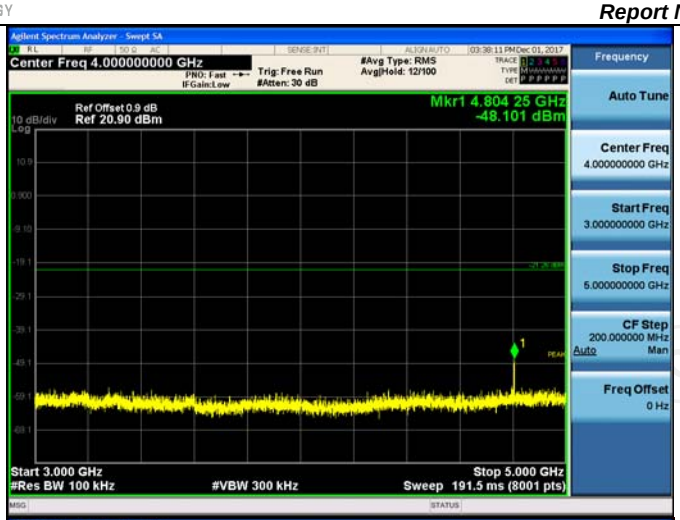
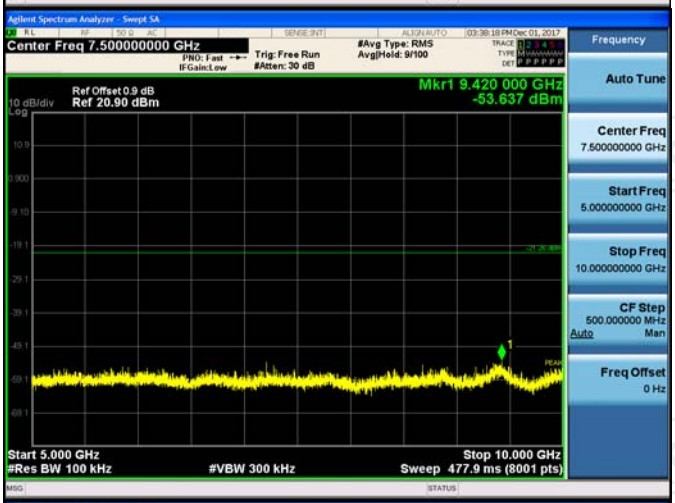
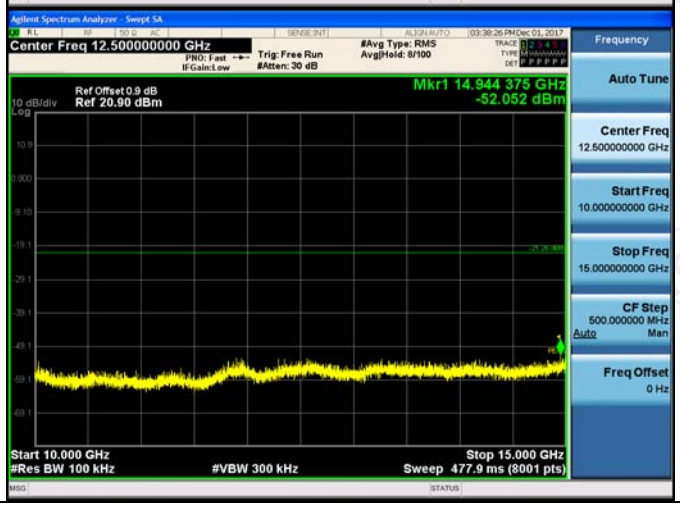
		

π/4DQPSK_LCH_Graphs		
Pref		
Puw		







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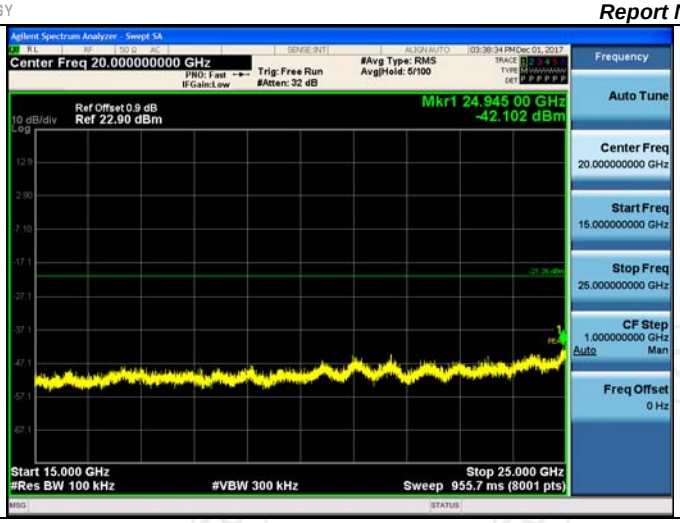
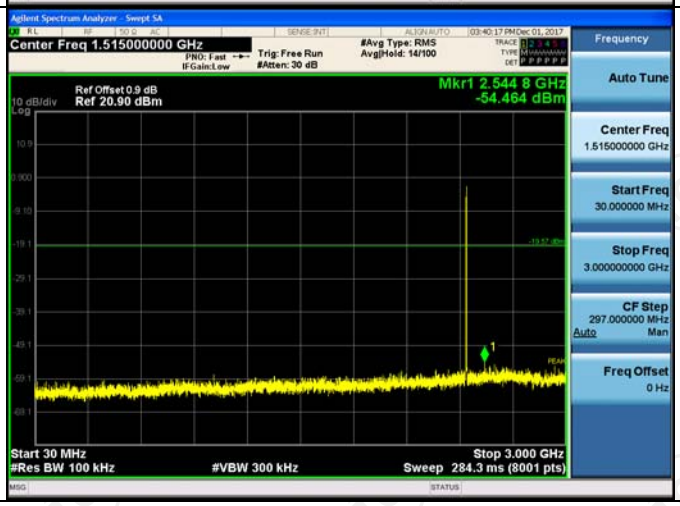
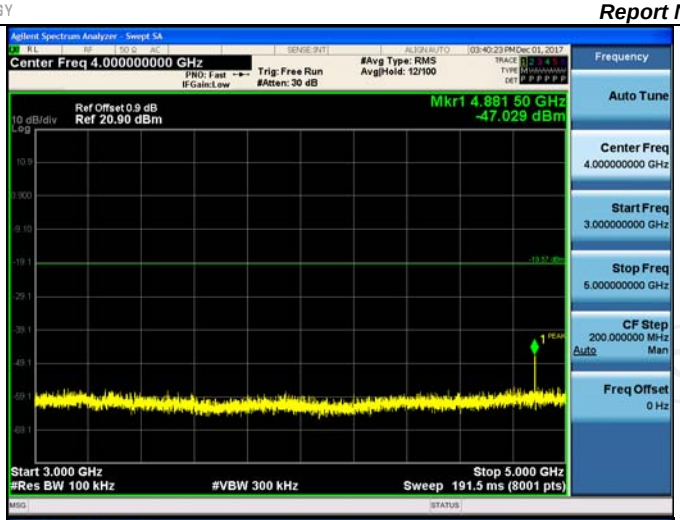
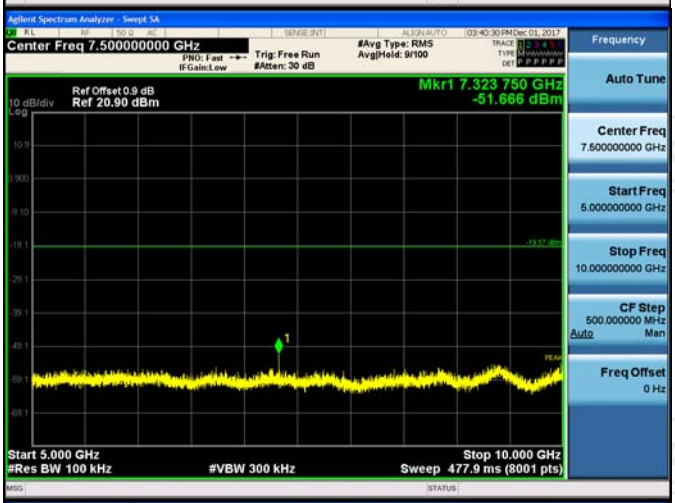
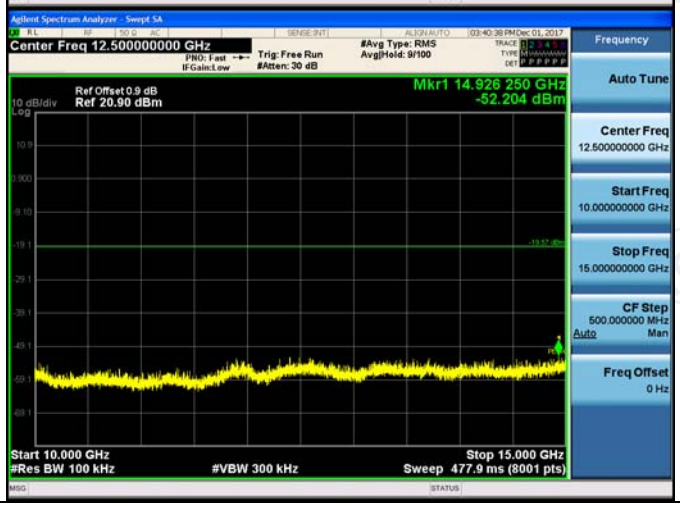
		

π/4DQPSK_MCH_Graphs		
Pref		
Puw		







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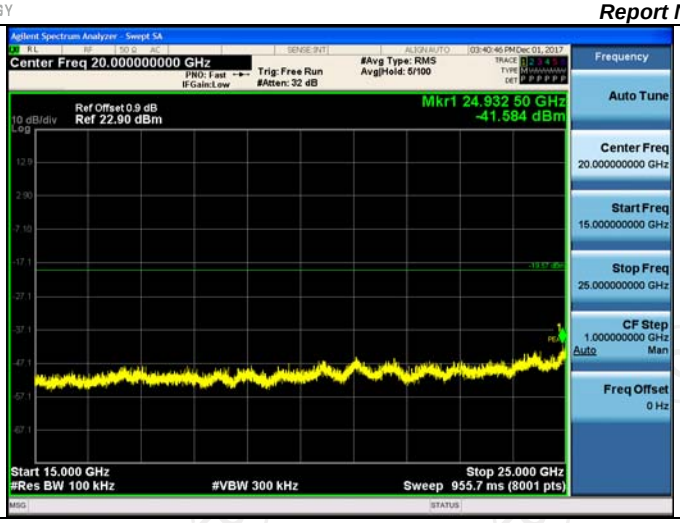
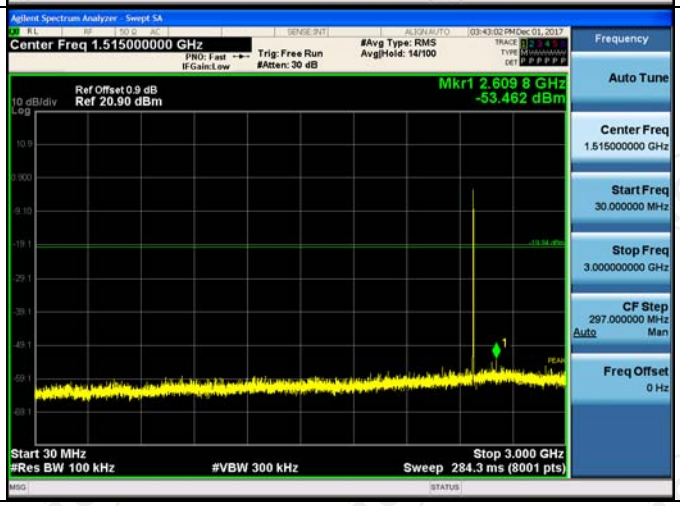
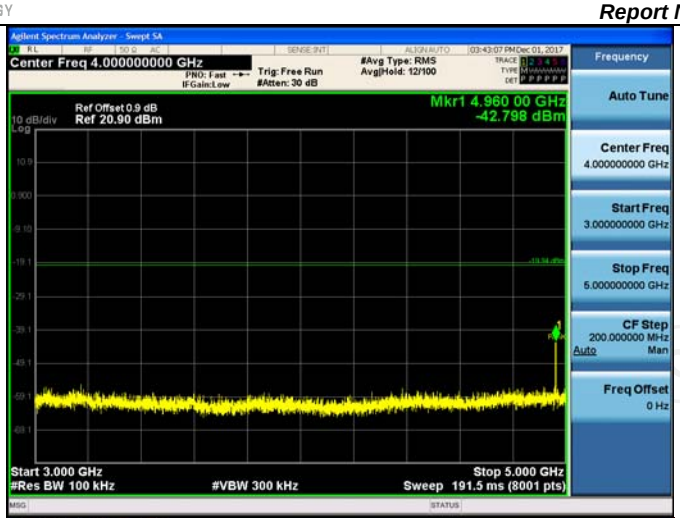
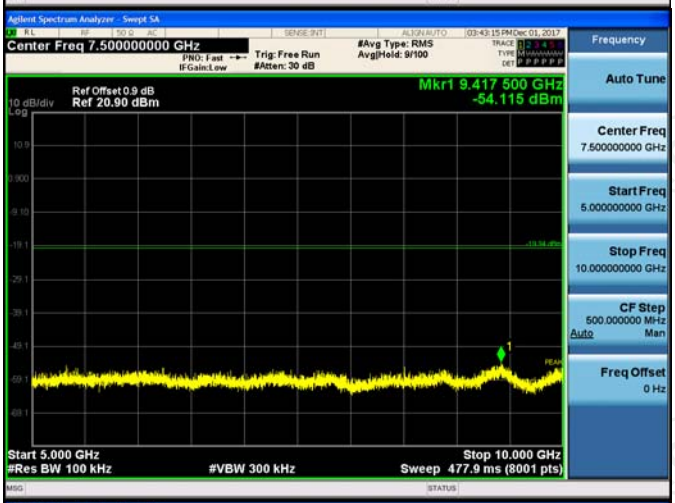
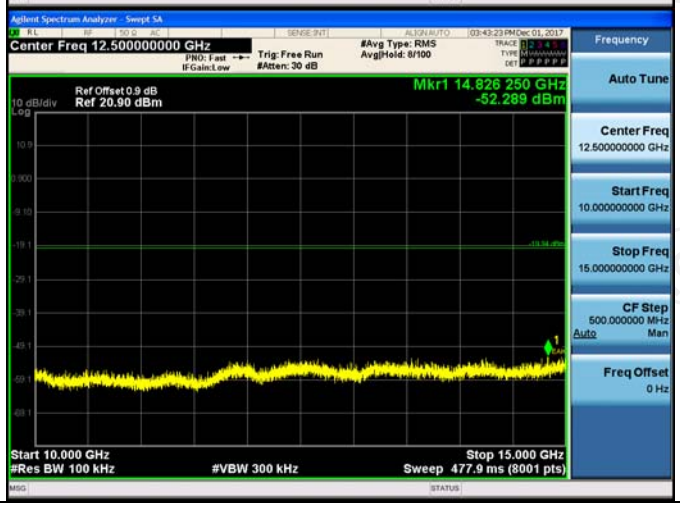
		

π/4DQPSK_HCH_Graphs		
Pref		
Puw		







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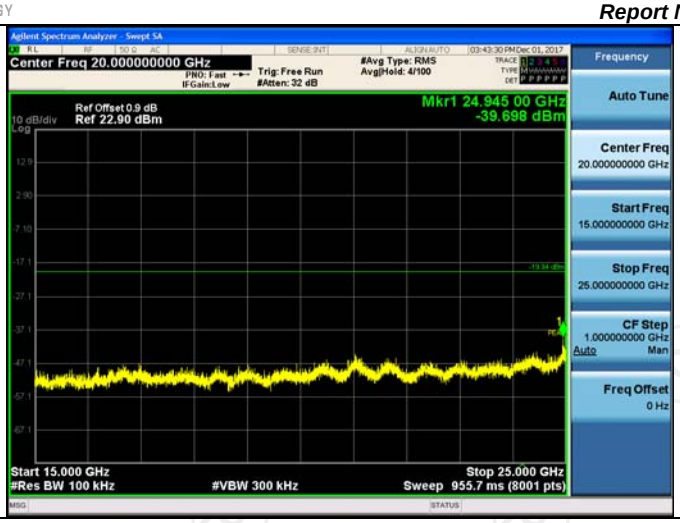
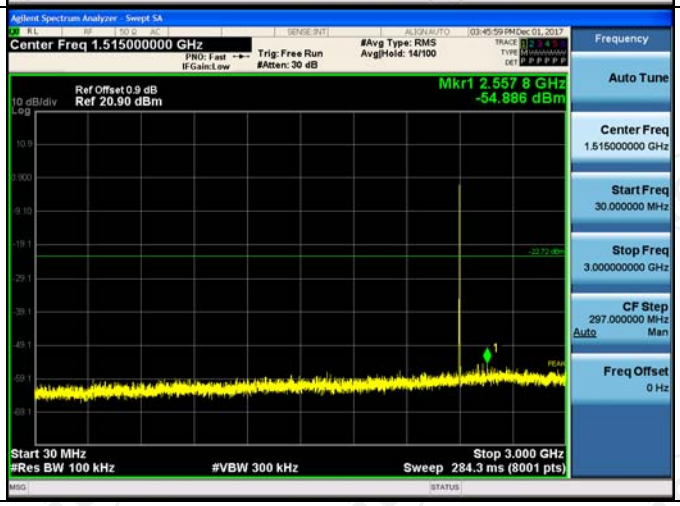
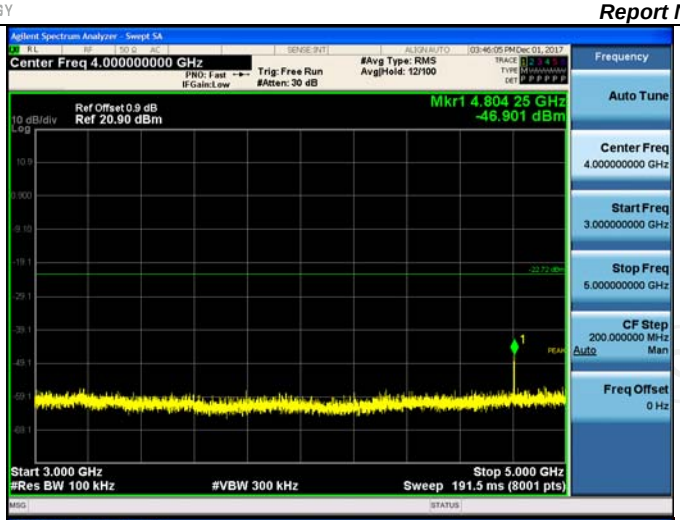
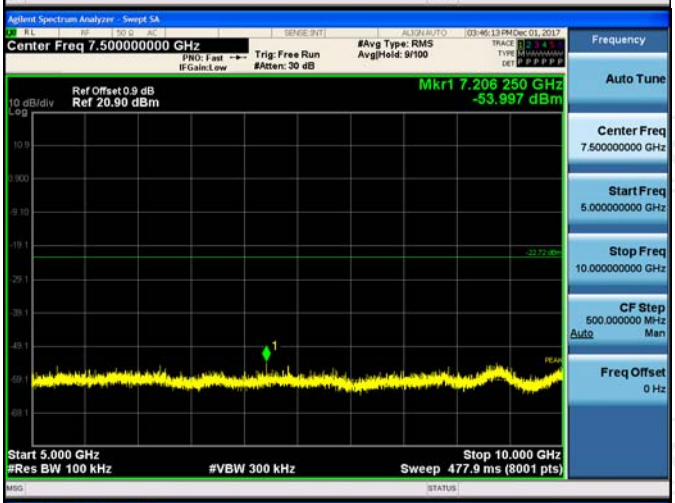
		

8DPSK_LCH_Graphs		
Pref		
Puw		





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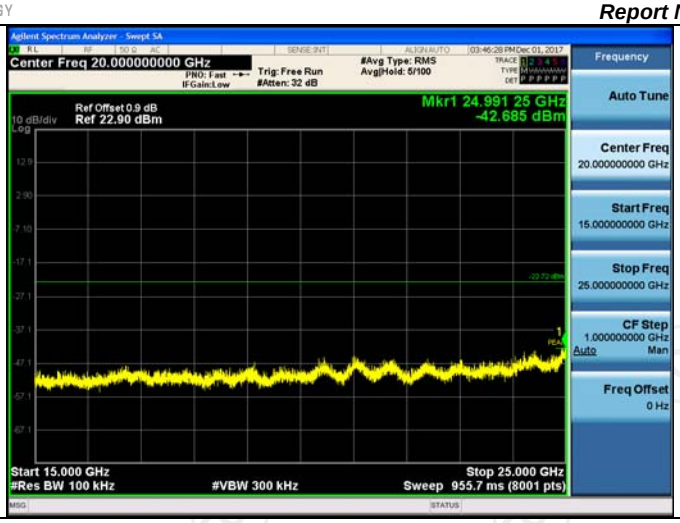
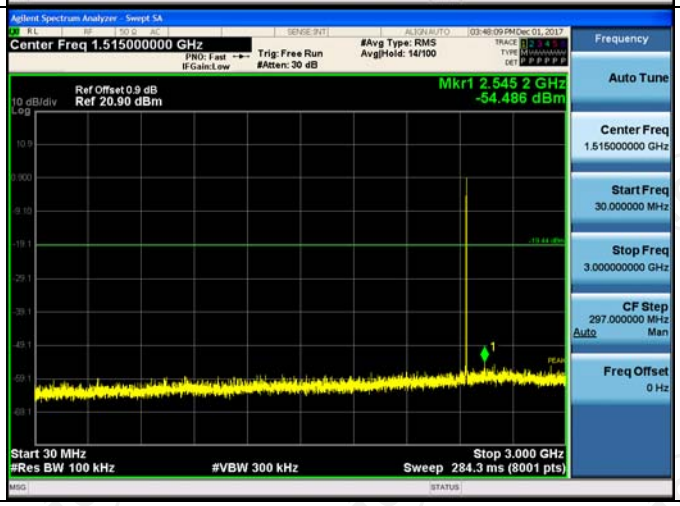
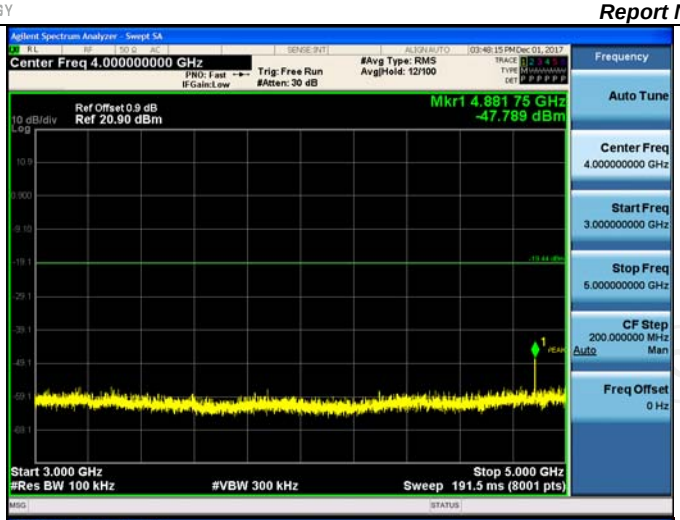
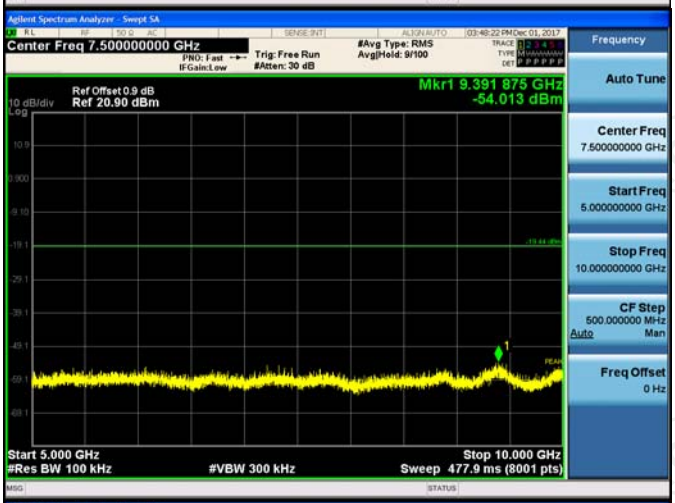
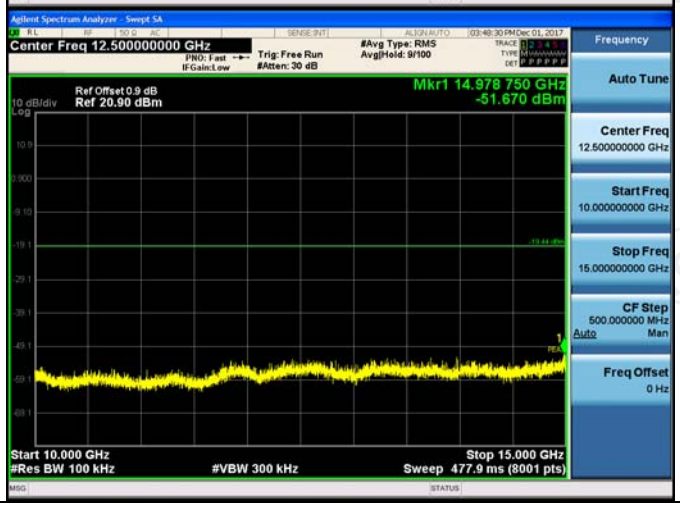
		

8DPSK_MCH_Graphs		
Pref		
Puw		







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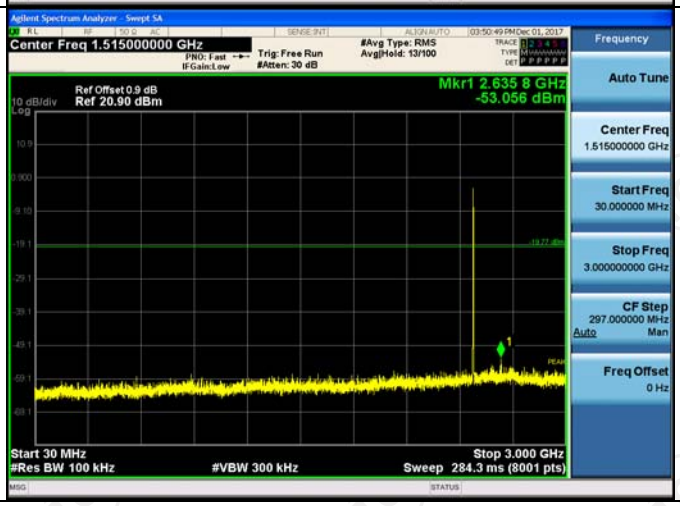
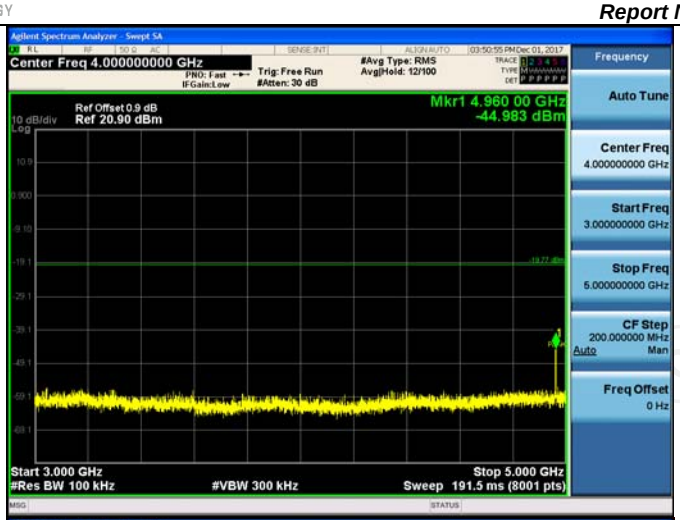
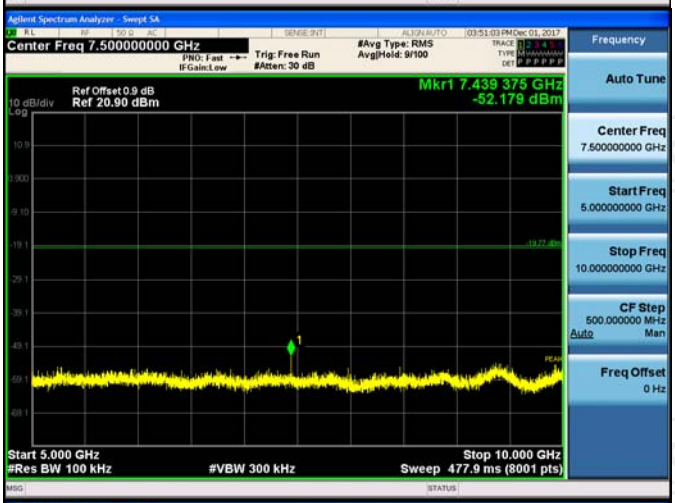
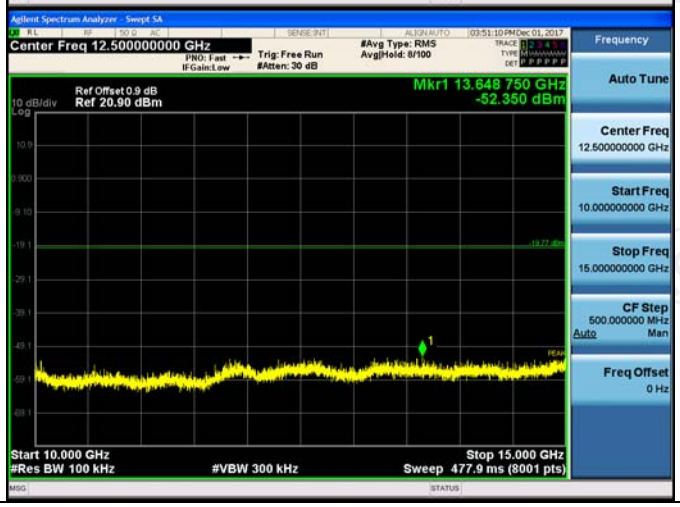
8DPSK_HCH_Graphs		
Pref		
Puw		







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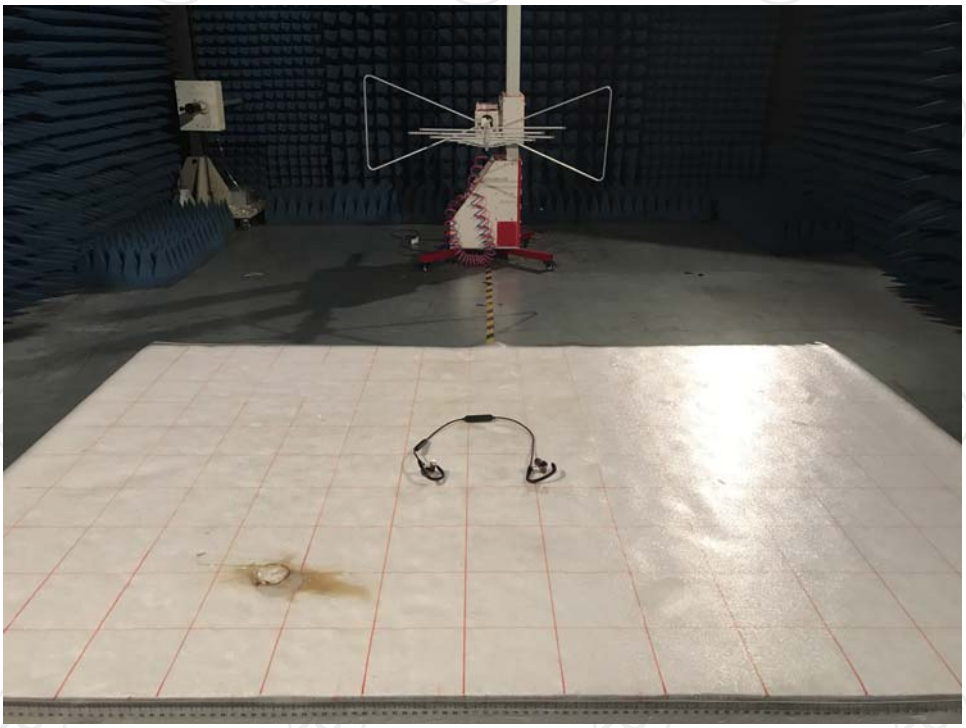
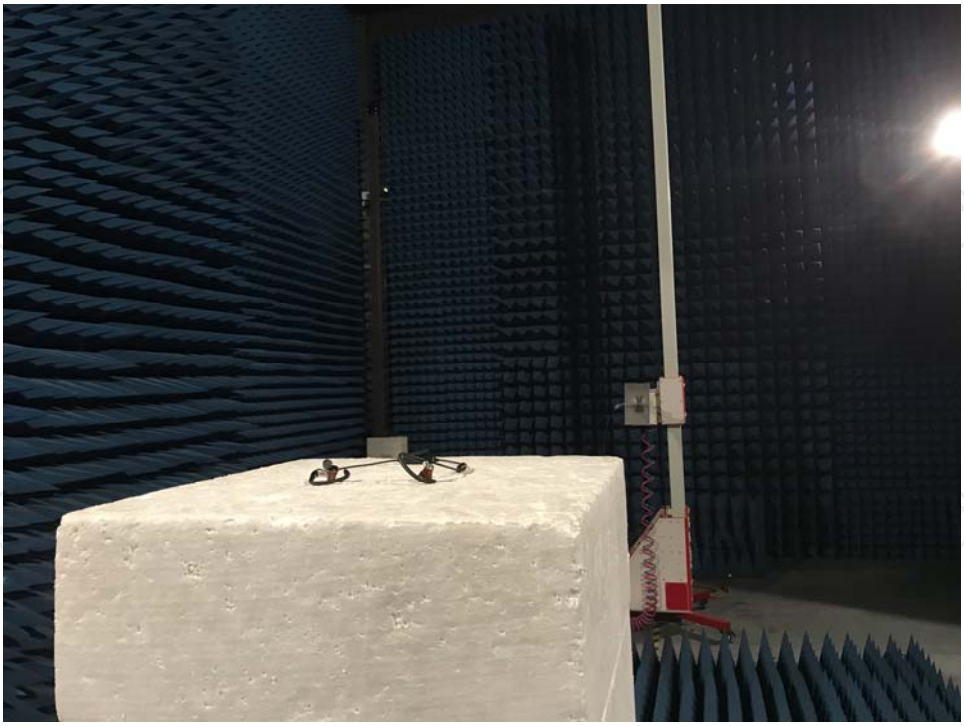
Agilent Spectrum Analyzer - Swept SA
Center Freq 20.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 32 dB
#Avg Type: RMS
Avg|Hold: 5/100
03:51:18 PM Dec 01, 2017
Ref Offset 0.9 dB
10 dB/div
Ref 22.90 dBm
Mkr1 24.938 75 GHz
-42.448 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 955.7 ms (8001 pts)
Frequency
Auto Tune
Center Freq
20.000000000 GHz
Start Freq
15.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.000000000 GHz
Auto
Man
Freq Offset
0 Hz

Appendix B: Photographs of Test Setup

Product: Bluetooth Earphone
Model: BT517W
Radiated Emission





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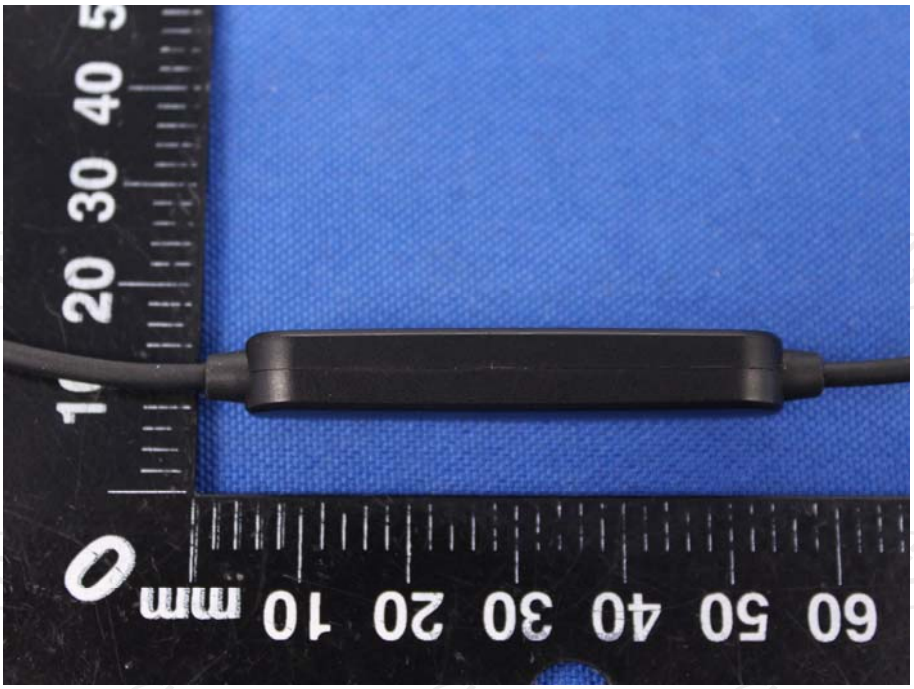
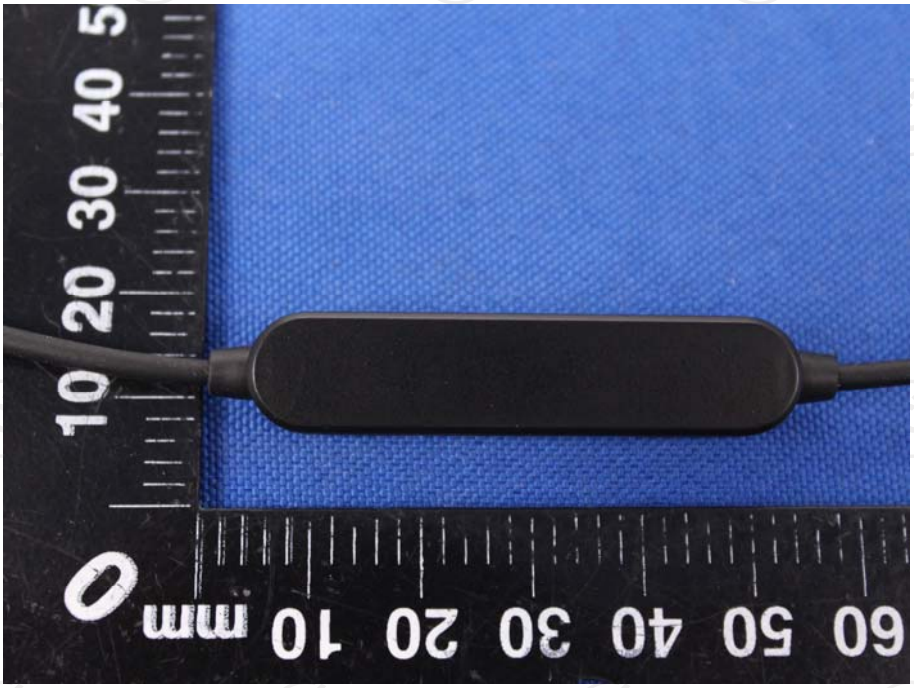
CE

Appendix C: Photographs of EUT
Product: Bluetooth Earphone
Model: BT517W
External Photos


mm
0
10
20
30
40
50
60


mm
0
10
20
30
40
50
60

0 mm 10 20 30 40 50 60
10 20 30 40

0 mm 10 20 30 40 50
10 20 30 40

50 40 30 20 10 mm 0
10 20 30 40

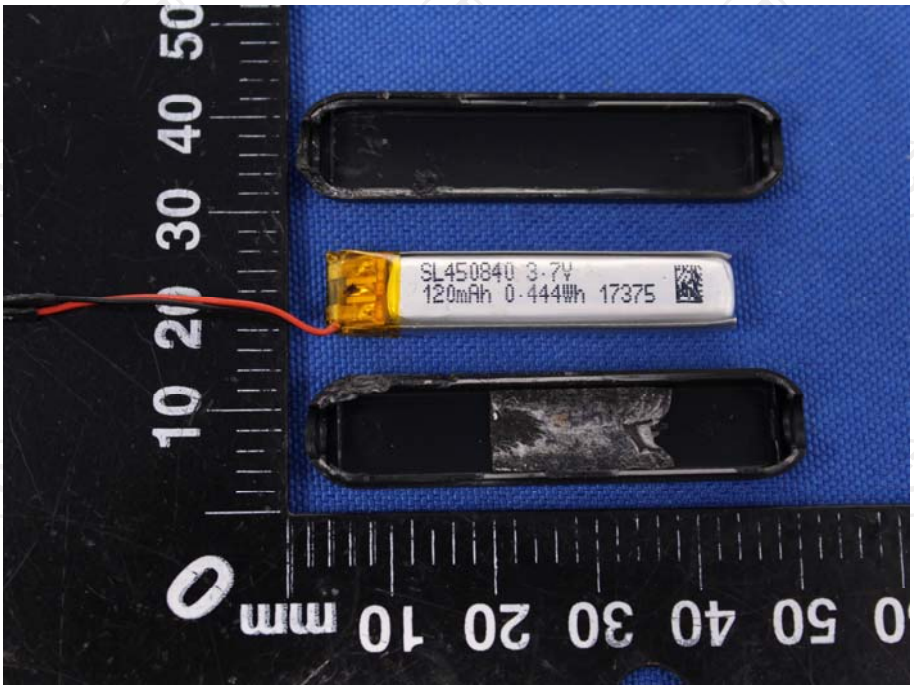
50 40 30 20 10 mm 0
10 20 30 40
symphonized

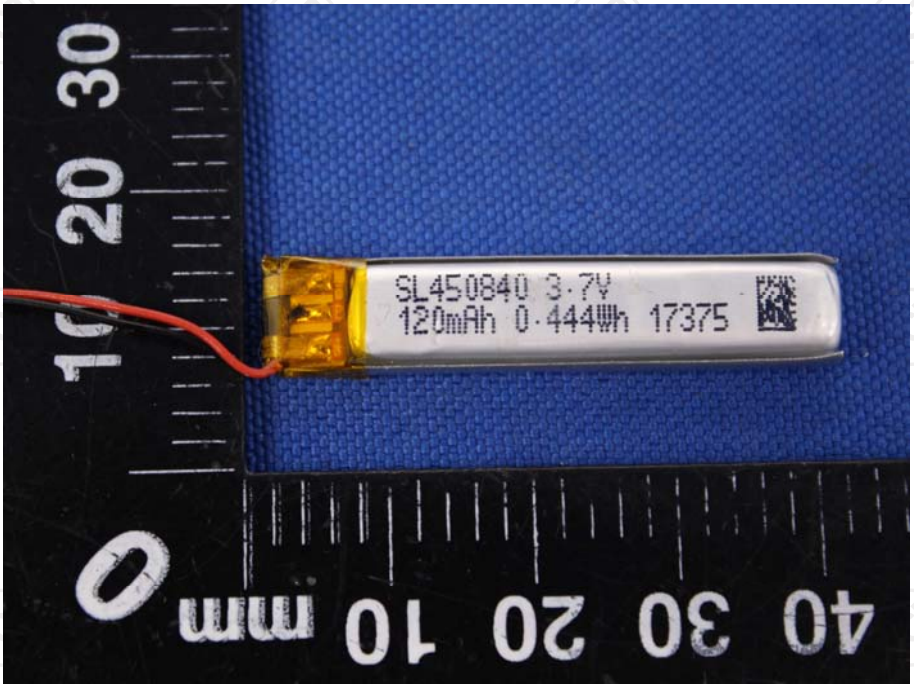
0 mm 10 20 30 40 50
10 20 30

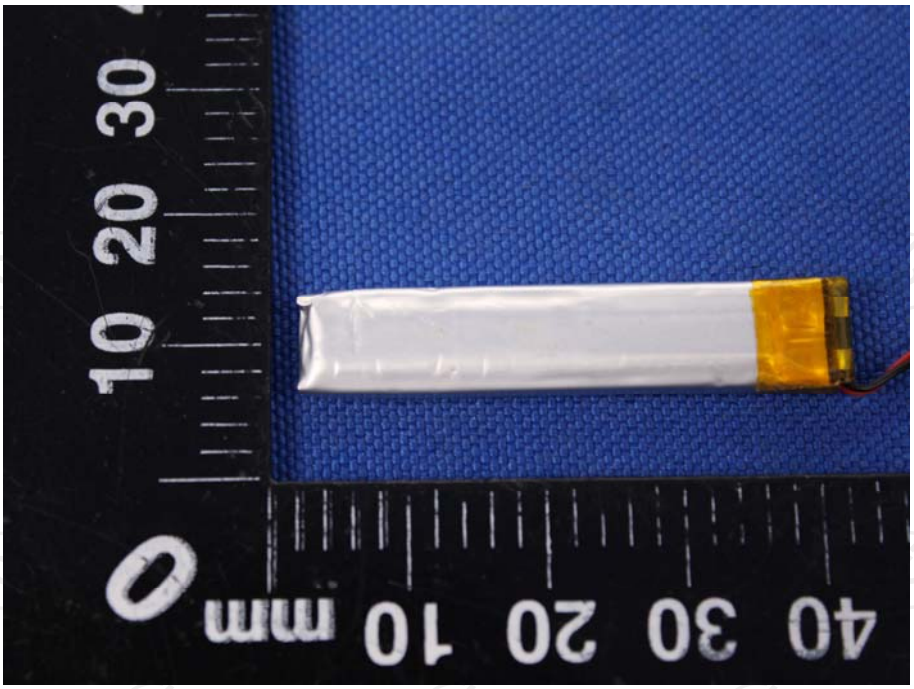
0 mm 10 20 30 40 50 60 70 80 90 100
0 20 30 40 50 60 70 80

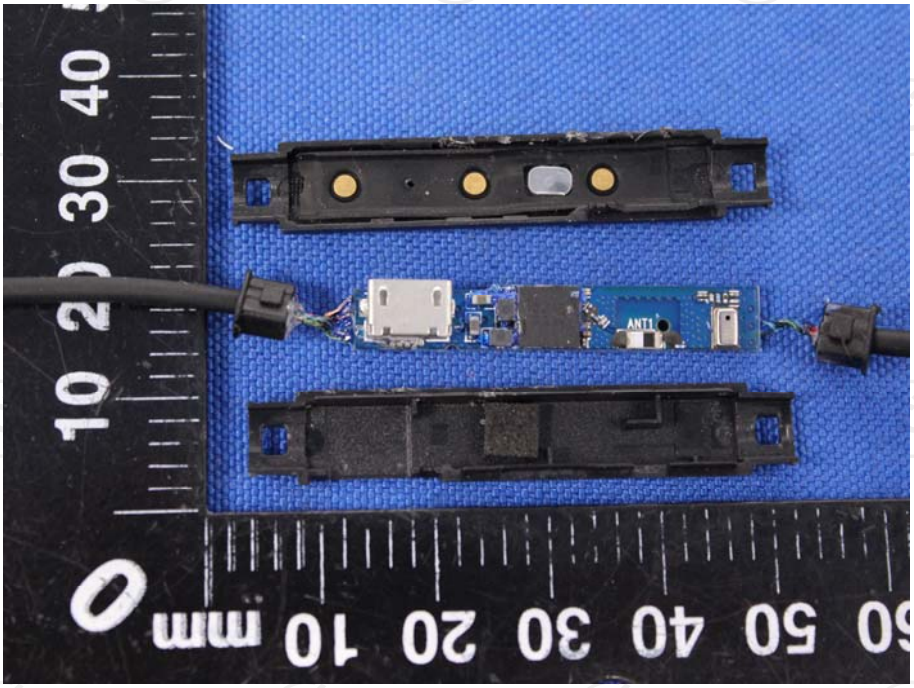
mm
0
10
20
30
40
50
60
70
80
90
100

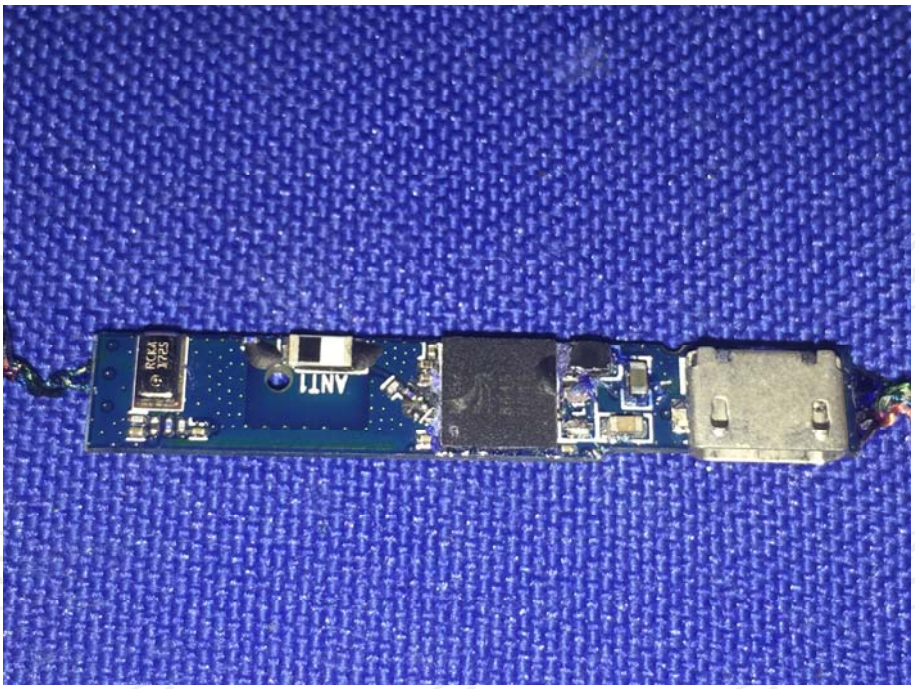
Product: Bluetooth Earphone
Model: BT517W
Internal Photos

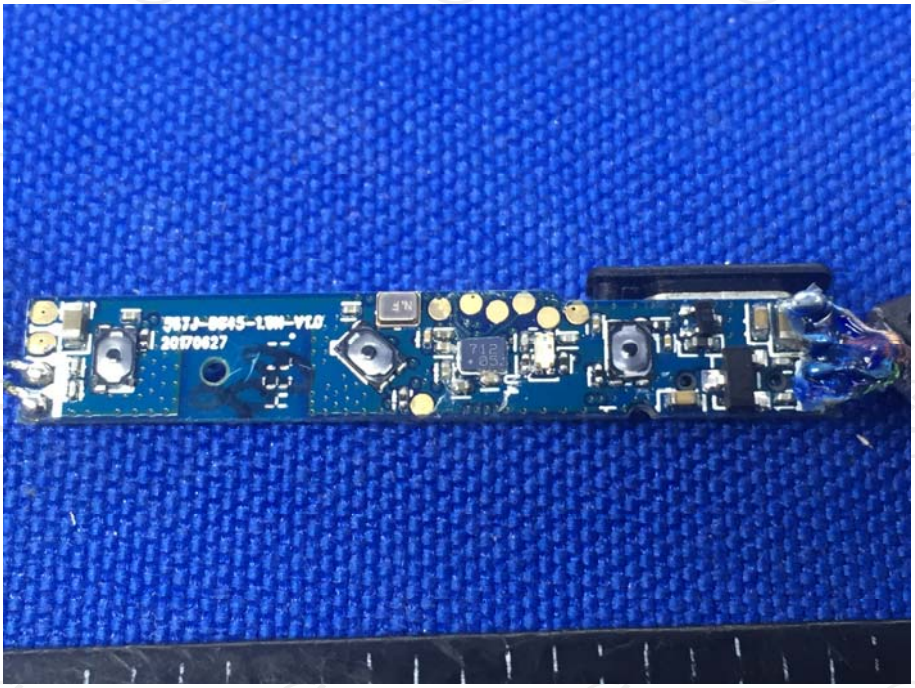





10 20 30
0 mm 10 20 30 40


10 20 30 40
0 mm 10 20 30 40 50





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