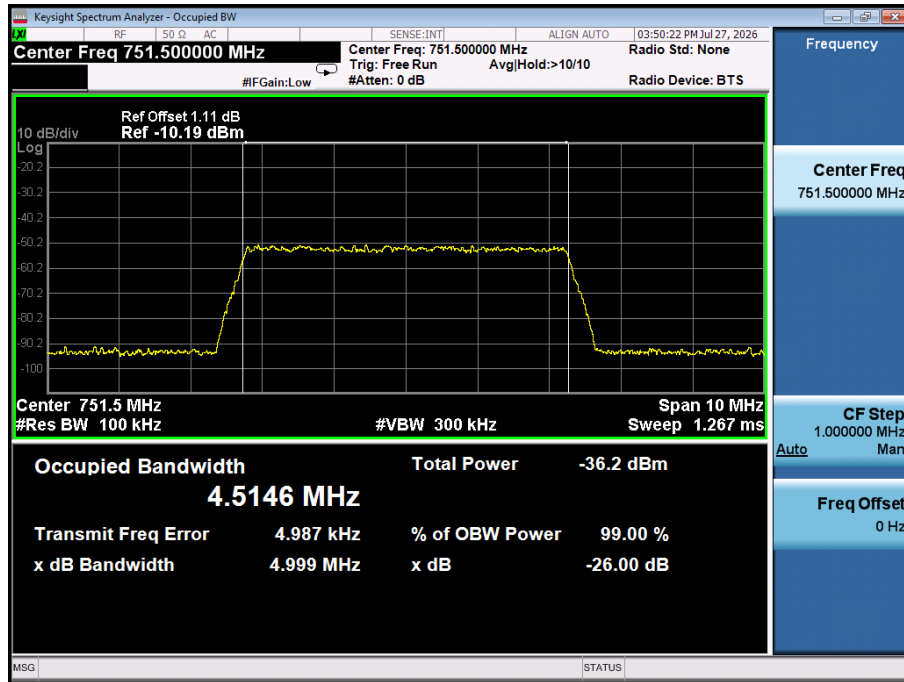
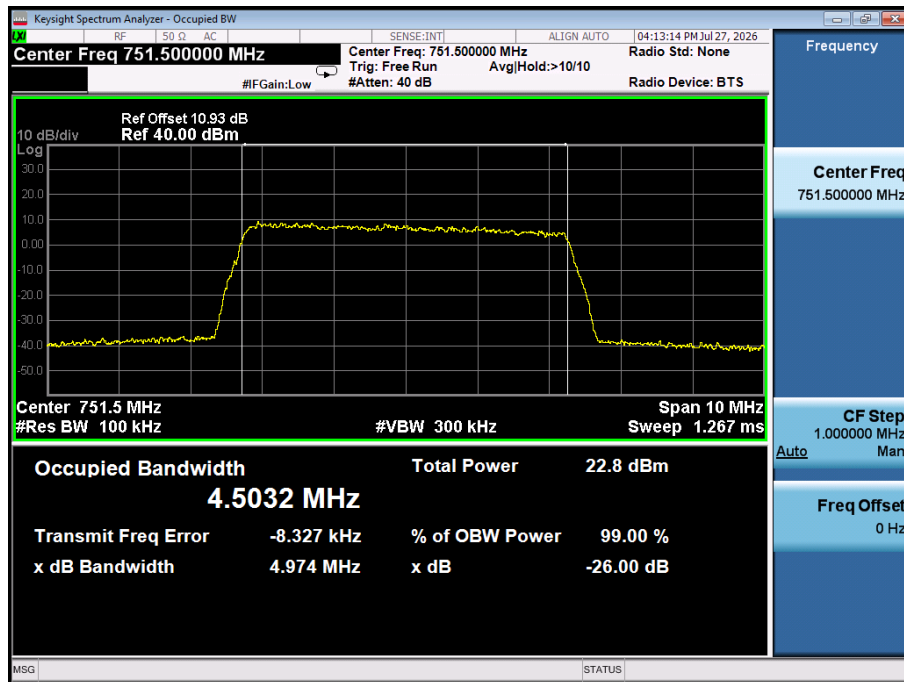


Upper700MHz LTE DL Input



Upper700MHz LTE DL Output



Oscillation Detection and Mitigation

Test results of detection time				
Operation Bands		Detection Time (s)	Limit (s)	Result
Uplink	PCS	0.256	0.300	PASS
	AWS	0.261	0.300	PASS
	Cellular	0.255	0.300	PASS
	Lower700MHz	0.255	0.300	PASS
	Upper700MHz	0.255	0.300	PASS
Downlink	PCS	0.255	1.000	PASS
	AWS	0.260	1.000	PASS
	Cellular	0.260	1.000	PASS
	Lower700MHz	0.235	1.000	PASS
	Upper700MHz	0.256	1.000	PASS

Test results of restarting time						
Operation Bands		Restarting Time(s)	Limit (s)	Restarting Counts	Limit	Result
Uplink	PCS	69.60	60	1	5	PASS
	AWS	72.60	60	1	5	PASS
	Cellular	69.60	60	1	5	PASS
	Lower700 MHz	68.80	60	1	5	PASS
	Upper700 MHz	69.60	60	1	5	PASS
Downlink	PCS	67.30	60	1	5	PASS
	AWS	70.40	60	1	5	PASS
	Cellular	67.60	60	1	5	PASS
	Lower700 MHz	69.00	60	1	5	PASS
	Upper700 MHz	69.20	60	1	5	PASS

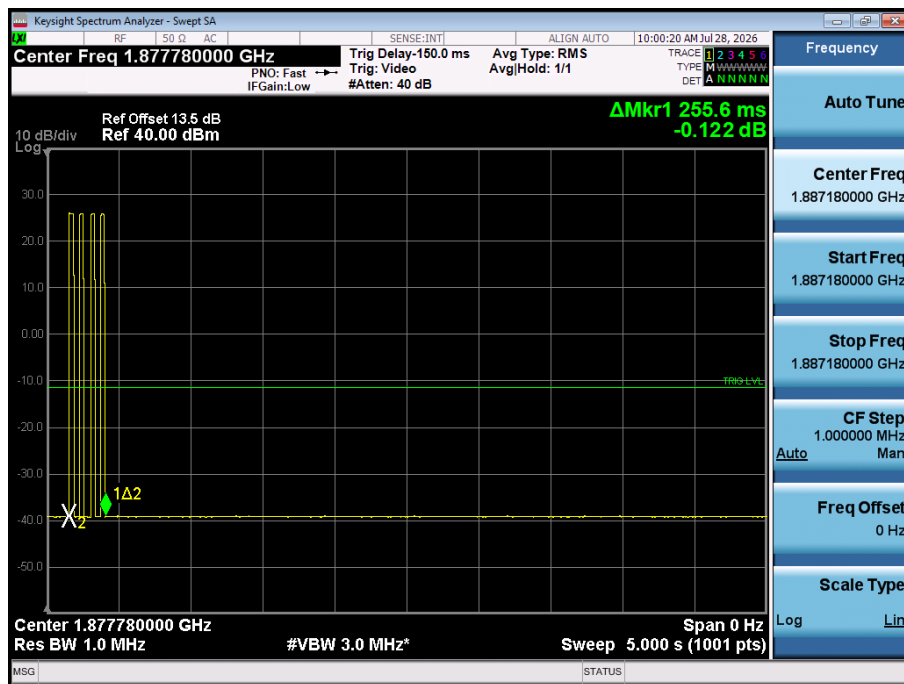
Note1: Path1 and Path2 have been tested, only the worst case (Path1) is reported.

Note2: Path1 is Outdoor + Indoor 1

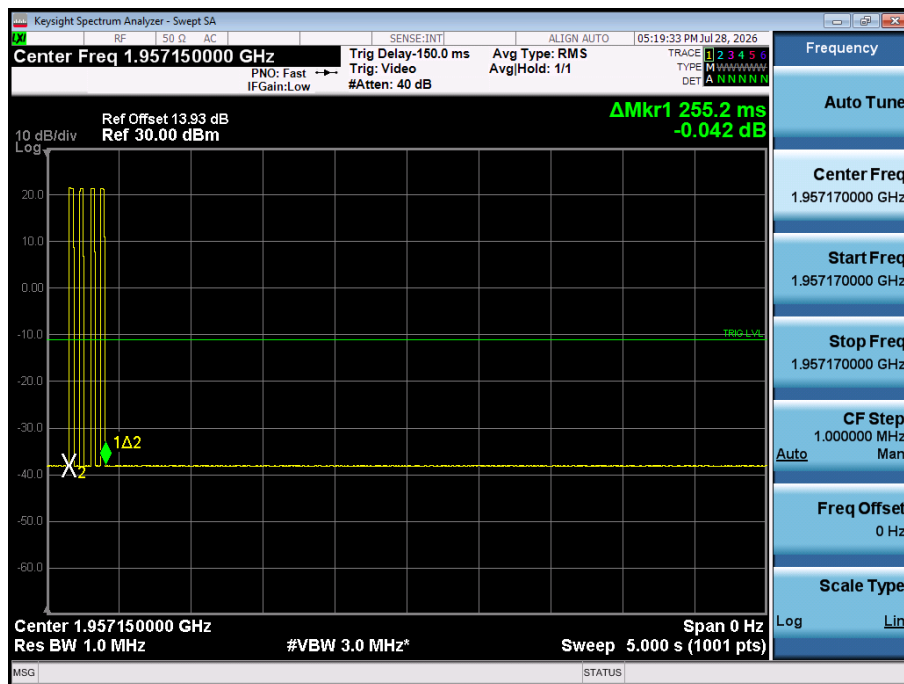
Note3: Path2 is Outdoor + Indoor 2

Test Plots of restarting time

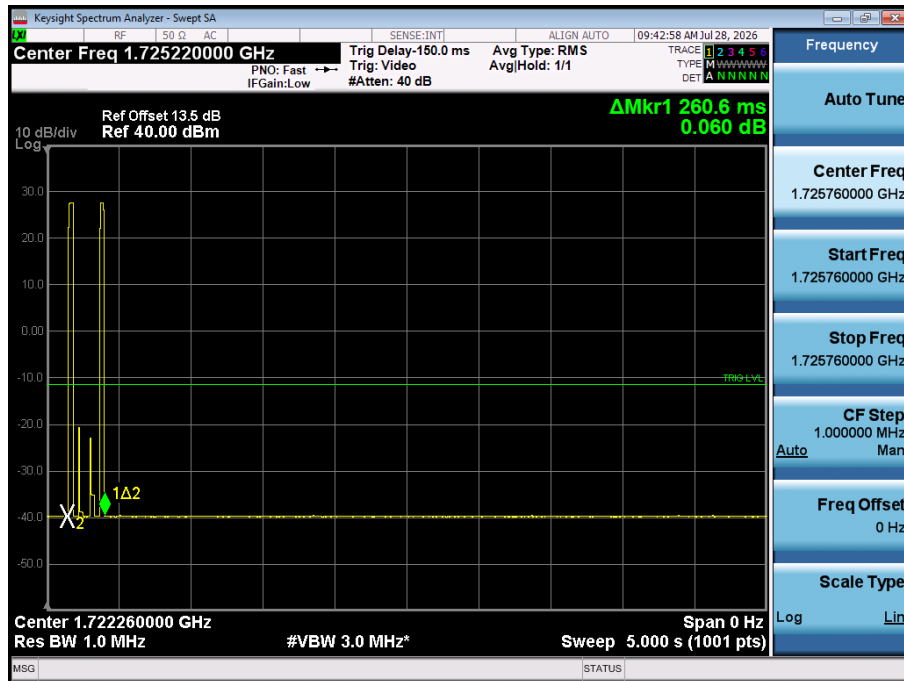
PCS UL



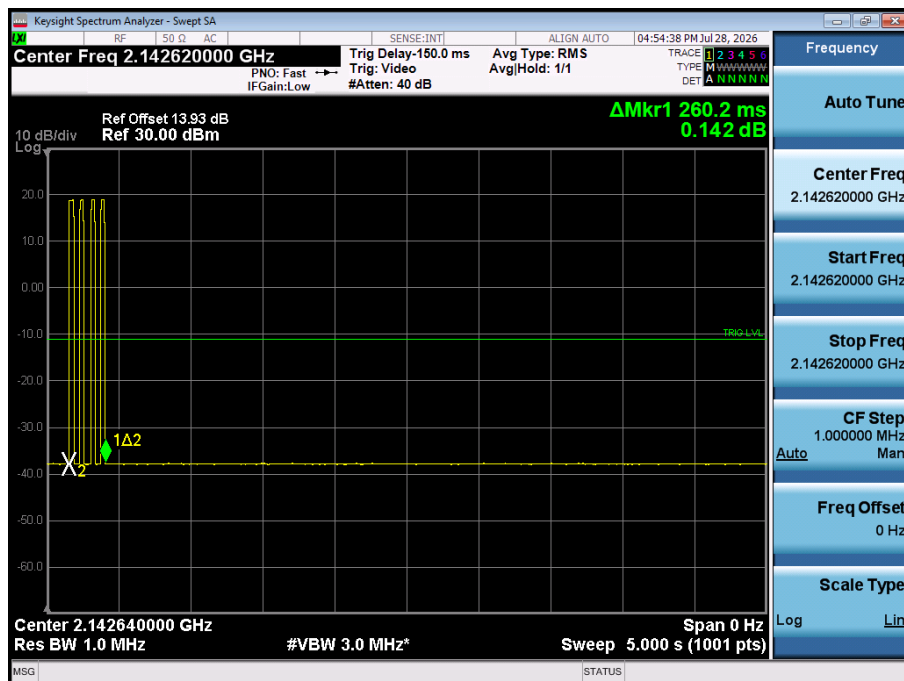
PCS DL



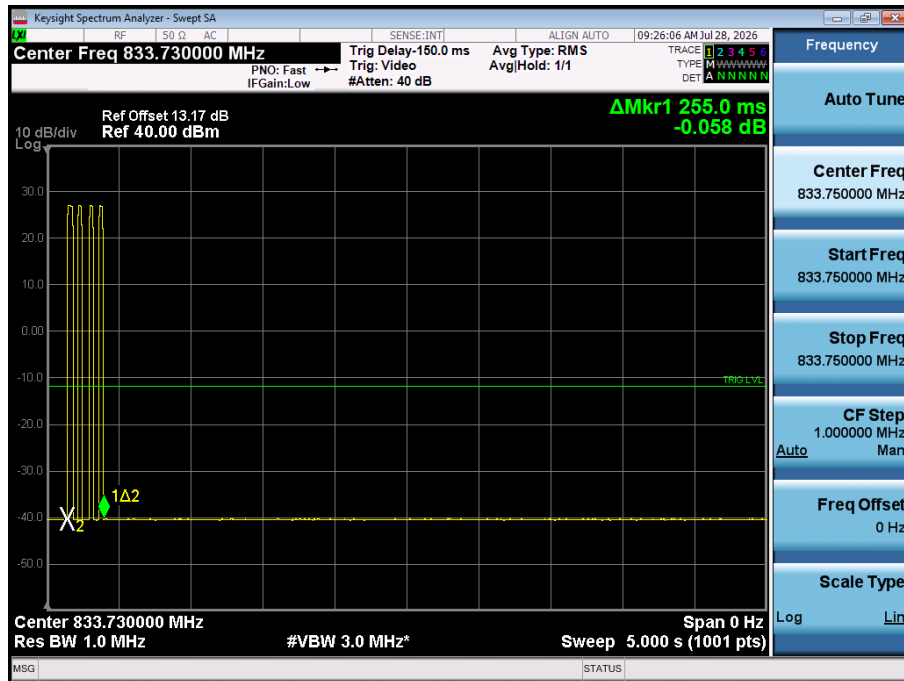
AWS UL



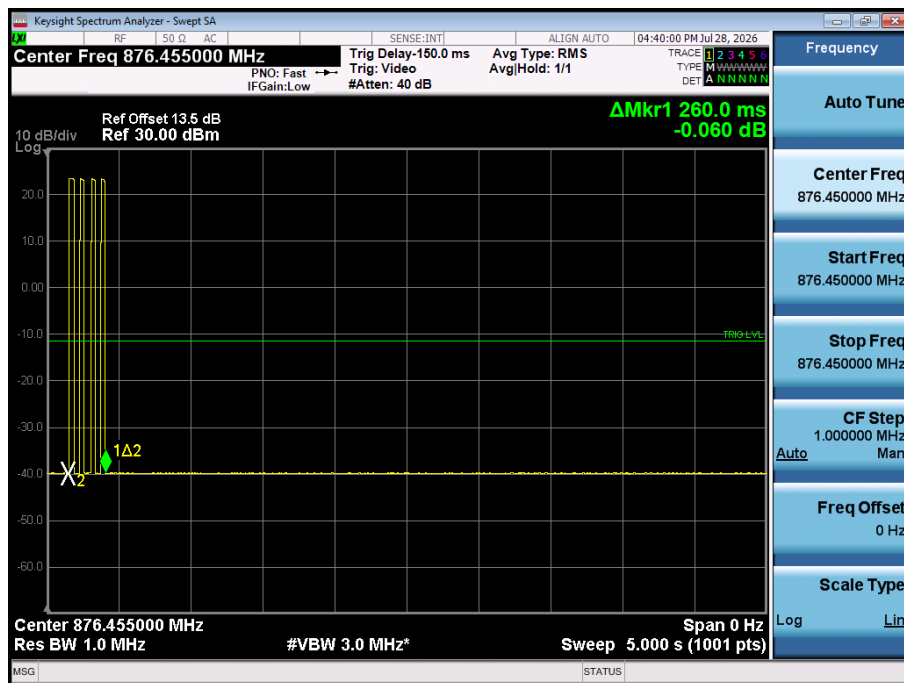
AWS DL



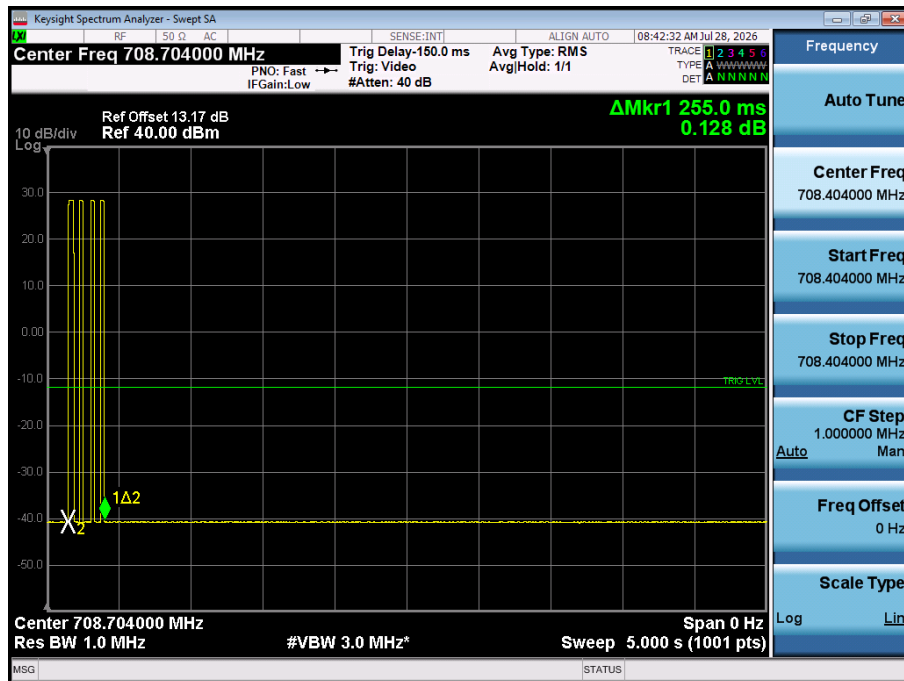
Cellular UL



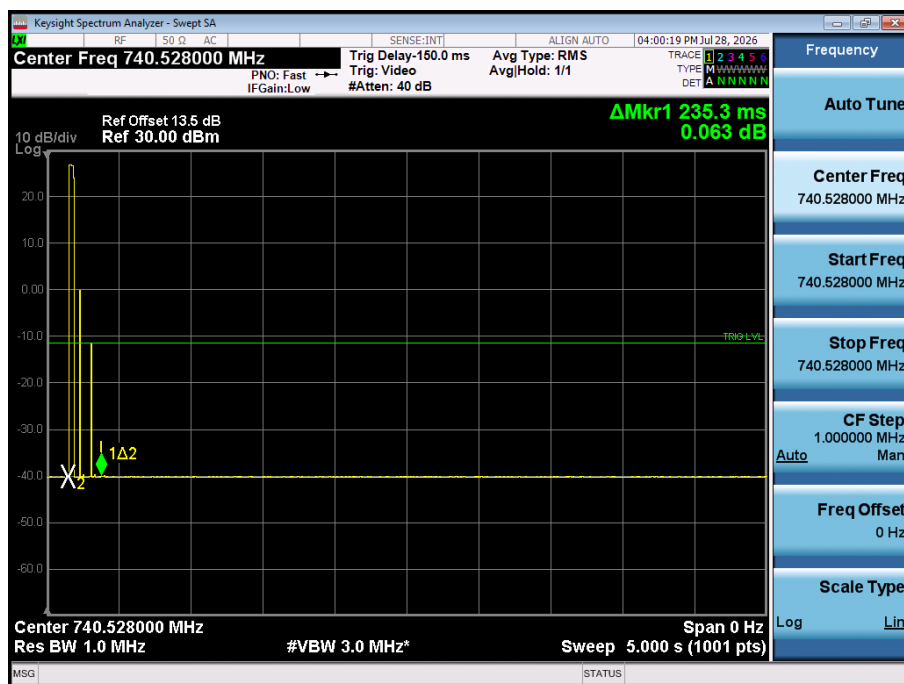
Cellular DL



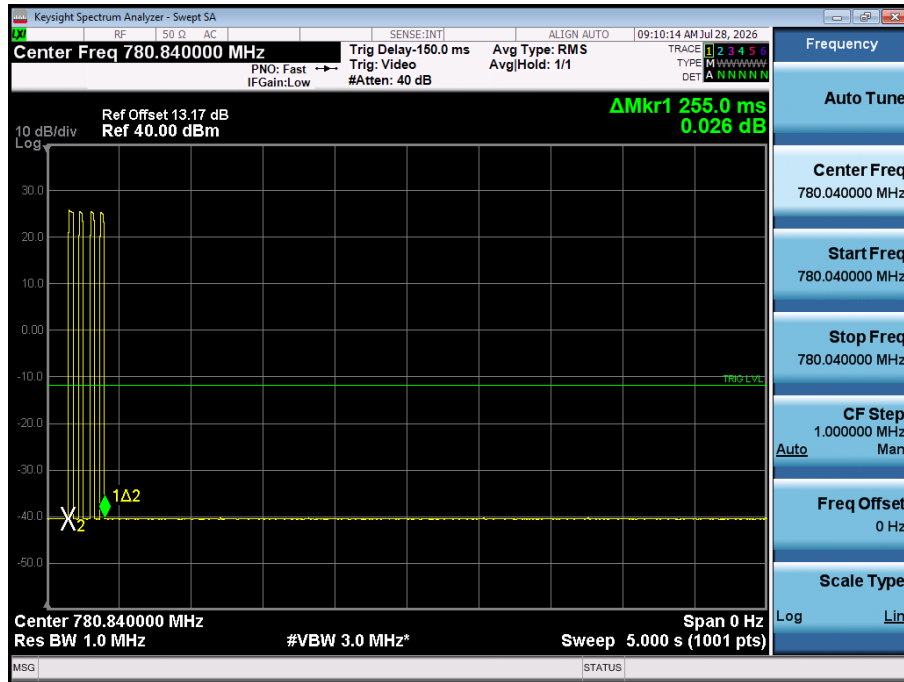
Lower700MHz UL



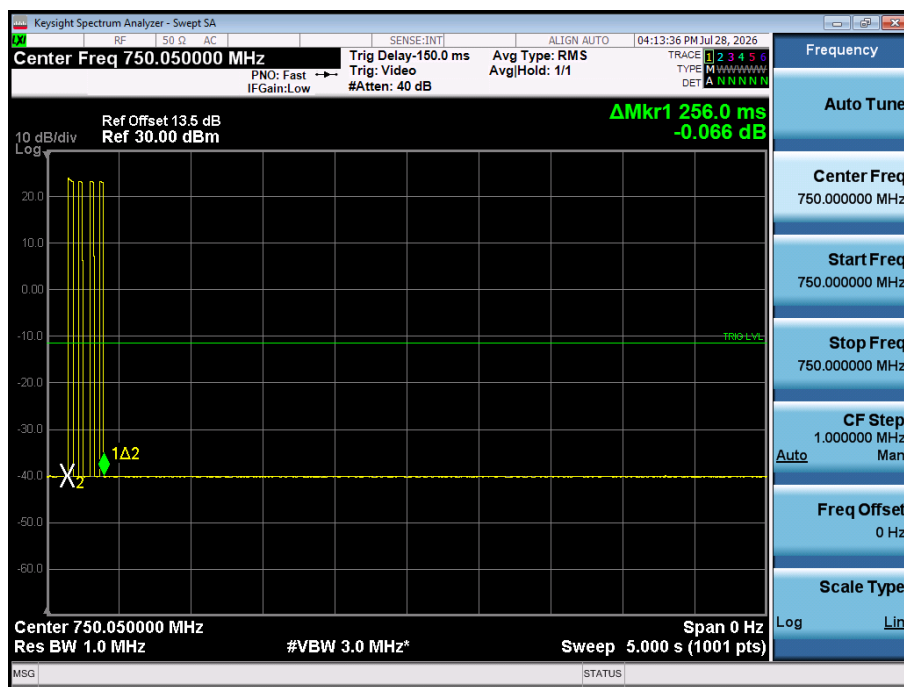
Lower700MHz DL



Upper700MHz UL

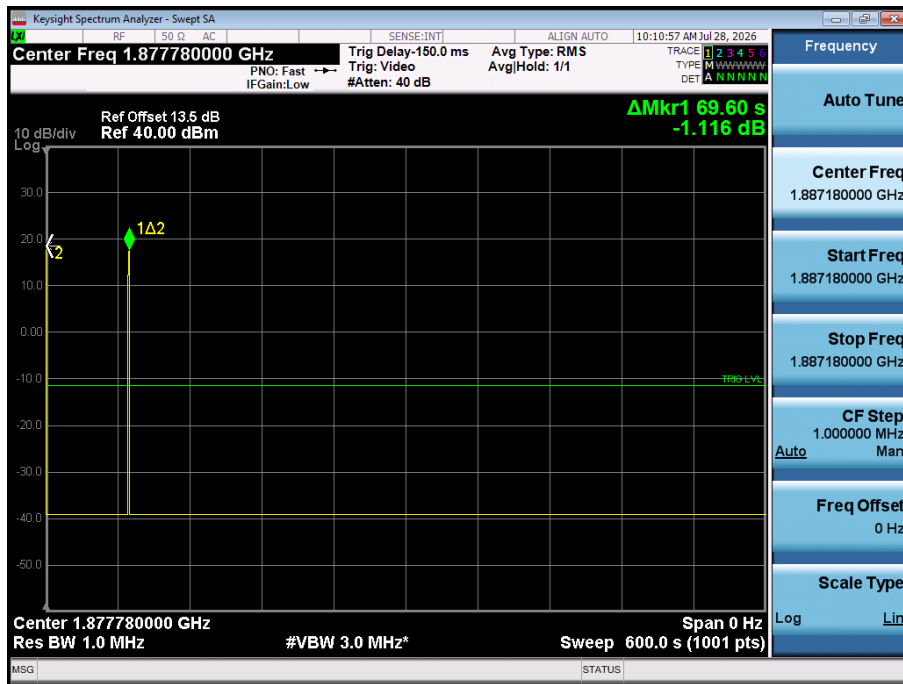


Upper700MHz DL

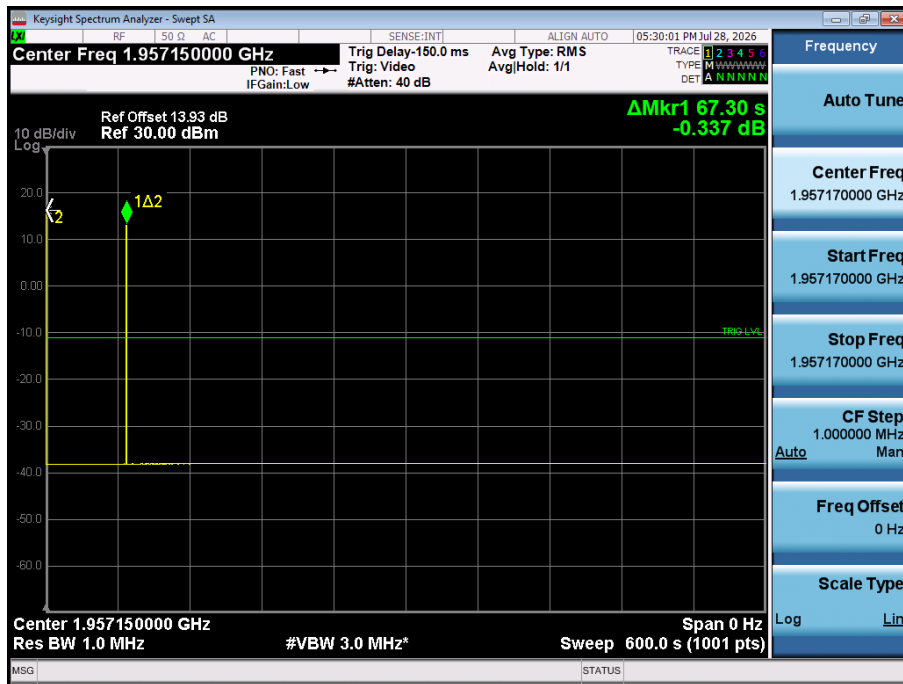


Test Plots of restarting time

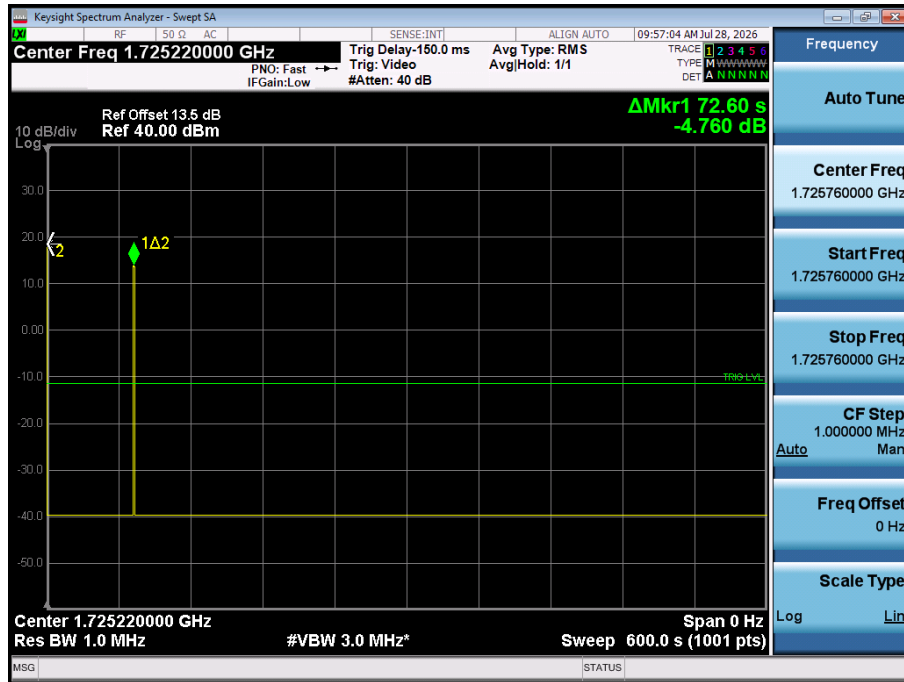
PCS UL



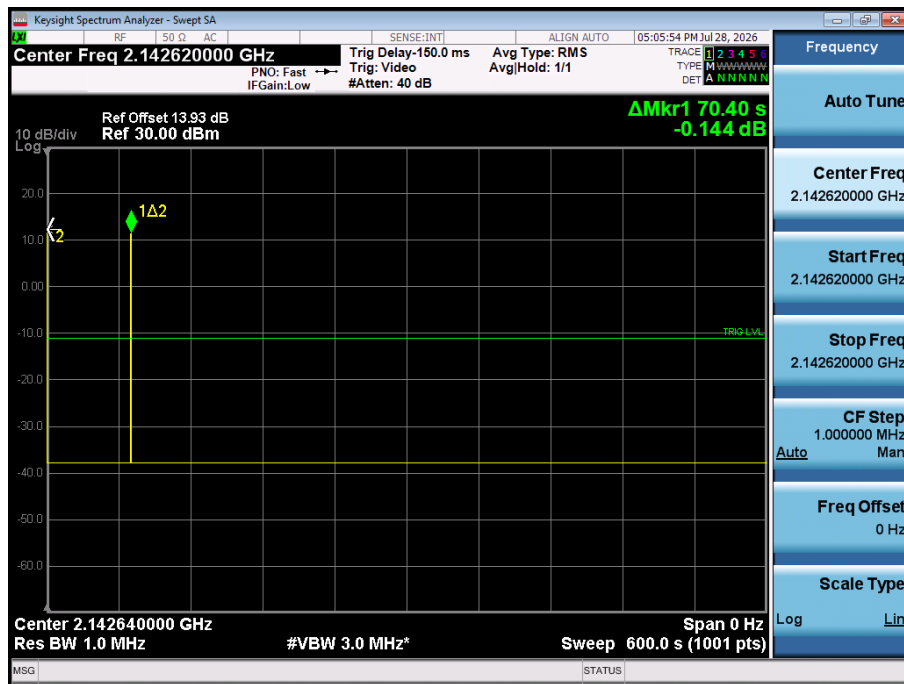
PCS DL



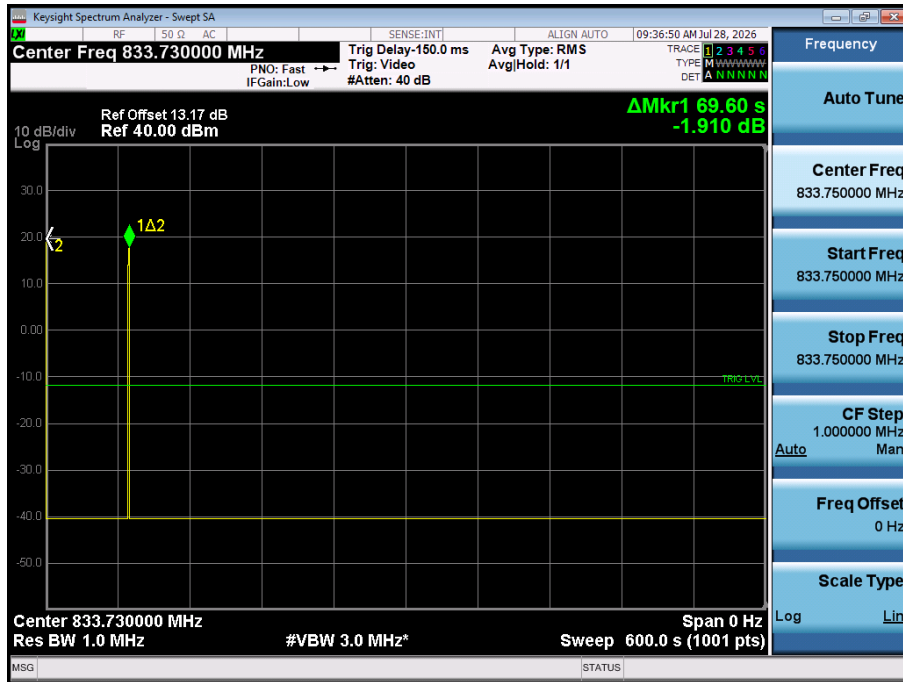
AWS UL



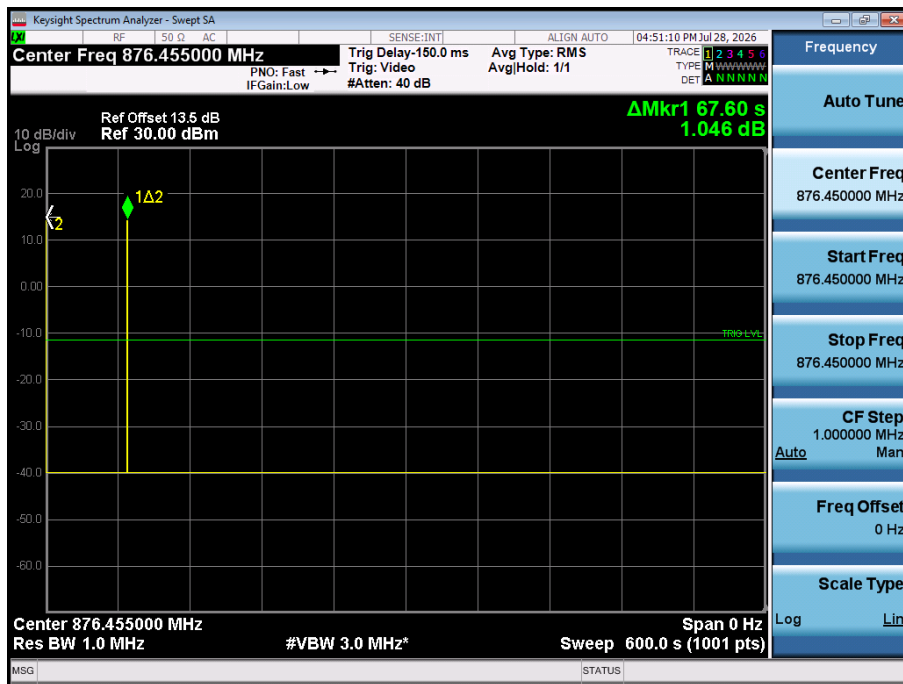
AWS DL



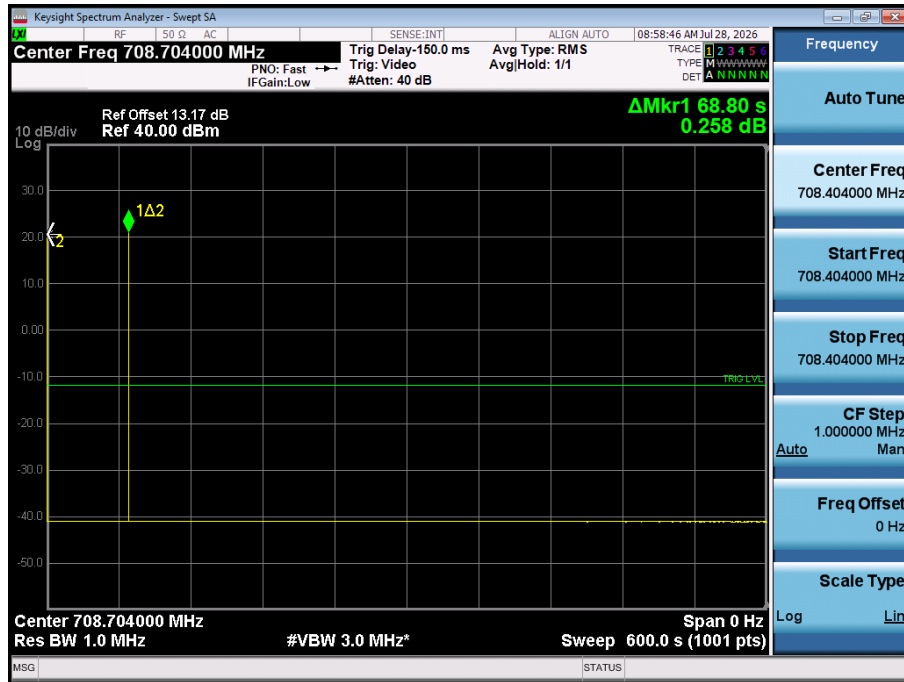
Cellular UL



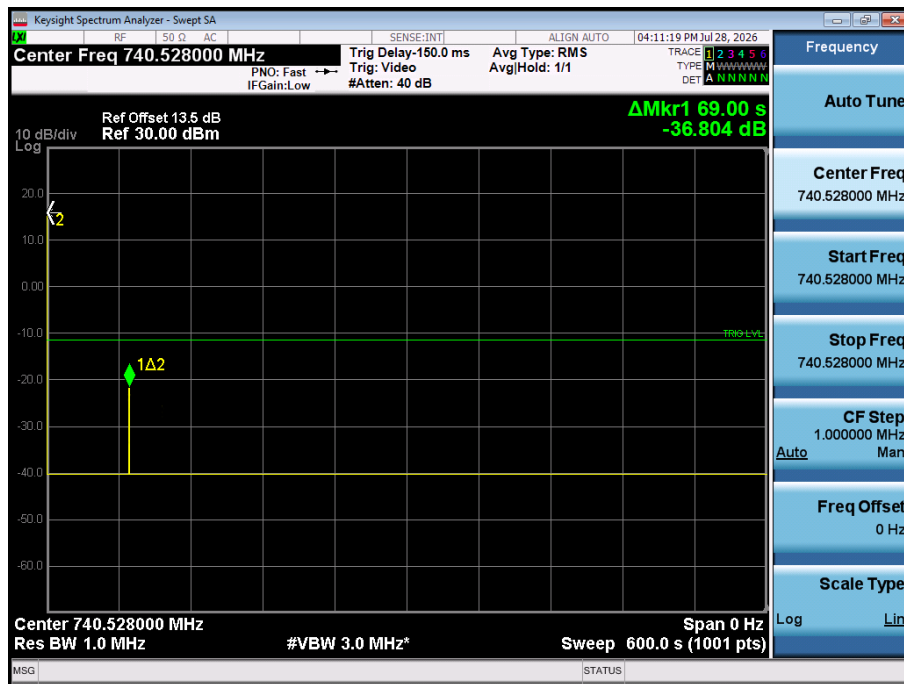
Cellular DL



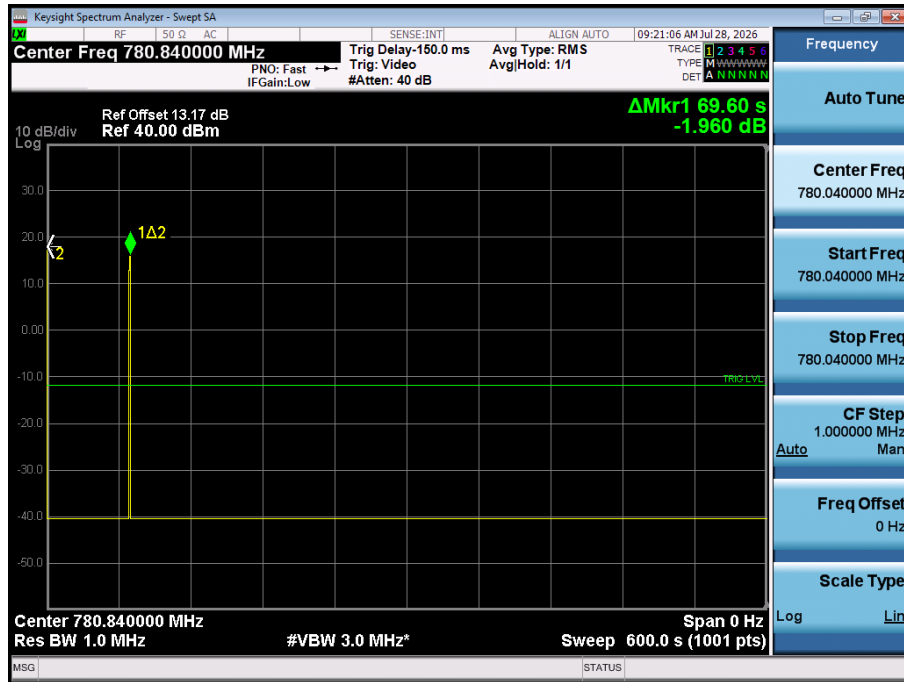
Lower700MHz UL



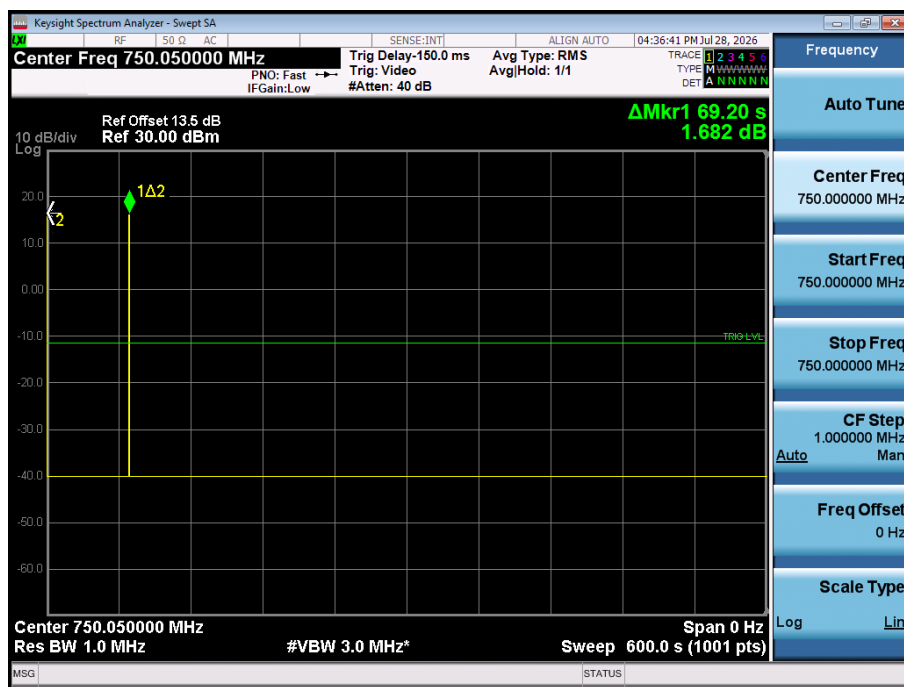
Lower700MHz DL



Upper700MHz UL



Upper700MHz DL



Test results of Mitigation or Shutdown

PCS	Uplink(1850-1915MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	1885.30	-46.99	1882.43	-55.74	8.75	<12	91	300	Pass
+4	1885.30	-46.86	1882.43	-55.81	8.95	<12	92	300	Pass
+3	1885.30	-46.26	1882.43	-56.64	10.38	<12	91	300	Pass
+2	1885.30	-45.60	1882.43	-56.23	10.63	<12	90	300	Pass
+1	1885.30	-39.52	1882.43	-57.16	17.64	<12	93	300	Pass
0	1885.30	-38.48	1882.43	-57.93	19.45	<12	90	300	Pass
-1	1885.30	-31.46	1882.43	-58.35	26.89	<12	92	300	Pass
-2	1885.30	-20.29	1882.43	-58.73	38.44	<12	91	300	Pass
-3	EUT Shutdown								

PCS	Downlink(1930-1995MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	1955.15	-44.65	1952.77	-56.30	11.65	<12	79	300	Pass
+4	1955.15	-43.72	1952.77	-56.55	12.83	<12	81	300	Pass
+3	1955.15	-40.79	1952.77	-56.44	15.65	<12	80	300	Pass
+2	1955.15	-38.94	1952.77	-56.03	17.09	<12	82	300	Pass
+1	1955.15	-36.28	1952.77	-59.03	22.75	<12	83	300	Pass
0	1955.15	-28.35	1952.77	-56.75	28.40	<12	81	300	Pass
-1	EUT Shutdown								

AWS	Uplink(1710-1755MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	1723.62	-49.56	1727.81	-56.36	6.80	<12	89	300	Pass
+4	1723.62	-48.64	1727.81	-57.10	8.46	<12	86	300	Pass
+3	1723.62	-48.28	1727.81	-56.71	8.43	<12	88	300	Pass
+2	1723.62	-46.92	1727.81	-59.05	12.13	<12	87	300	Pass
+1	1723.62	-46.59	1727.81	-57.90	11.31	<12	88	300	Pass
0	1723.62	-46.05	1727.81	-59.98	13.93	<12	85	300	Pass
-1	1723.62	-44.59	1727.81	-59.50	14.91	<12	86	300	Pass
-2	1723.62	-40.50	1727.81	-59.97	19.47	<12	89	300	Pass
-3	1723.62	-38.66	1727.81	-61.07	22.41	<12	87	300	Pass
-4	1723.62	-25.55	1727.81	-60.08	34.53	<12	84	300	Pass
-5	EUT Shutdown								

AWS	Downlink(2110-2155MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	2138.81	-49.01	2132.67	-59.04	10.03	<12	87	300	Pass
+4	2138.81	-47.64	2132.67	-58.30	10.66	<12	86	300	Pass
+3	2138.81	-46.92	2132.67	-58.41	11.49	<12	90	300	Pass
+2	2138.81	-46.65	2132.67	-59.79	13.14	<12	88	300	Pass
+1	2138.81	-45.23	2132.67	-59.25	14.02	<12	91	300	Pass
0	2138.81	-43.41	2132.67	-58.59	15.18	<12	86	300	Pass
-1	2138.81	-39.70	2132.67	-58.35	18.65	<12	85	300	Pass
-2	2138.81	-36.09	2132.67	-59.97	23.88	<12	90	300	Pass
-3	2138.81	-30.46	2132.67	-60.47	30.01	<12	91	300	Pass
-4	EUT Shutdown								

Cellular	Uplink(824-849MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	833.32	-53.72	830.92	-61.21	7.49	<12	90	300	Pass
+4	833.32	-53.44	830.92	-61.09	7.65	<12	88	300	Pass
+3	833.32	-52.54	830.92	-61.46	8.92	<12	90	300	Pass
+2	833.32	-51.48	830.92	-61.96	10.48	<12	91	300	Pass
+1	833.32	-48.41	830.92	-63.85	15.44	<12	92	300	Pass
0	833.32	-46.61	830.92	-64.15	17.54	<12	90	300	Pass
-1	833.32	-39.13	830.92	-63.06	23.93	<12	93	300	Pass
-2	833.32	-24.43	830.92	-62.58	38.15	<12	90	300	Pass
-3	EUT Shutdown								

Cellular	Downlink(869-894MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	875.91	-52.79	874.01	-64.32	11.53	<12	91	300	Pass
+4	875.91	-51.78	874.01	-64.07	12.29	<12	92	300	Pass
+3	875.91	-50.31	874.01	-65.20	14.89	<12	90	300	Pass
+2	875.91	-47.87	874.01	-64.26	16.39	<12	93	300	Pass
+1	875.91	-43.21	874.01	-66.22	23.01	<12	90	300	Pass
0	875.91	-29.07	874.01	-64.62	35.55	<12	91	300	Pass
-1	EUT Shutdown								

Lower700 MHz	Uplink(698-716MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	707.71	-55.95	705.56	-69.63	13.68	<12	92	300	Pass
+4	707.71	-53.06	705.56	-68.98	15.92	<12	94	300	Pass
+3	707.71	-49.47	705.56	-68.76	19.29	<12	90	300	Pass
+2	707.71	-43.89	705.56	-69.90	26.01	<12	93	300	Pass
+1	EUT Shutdown								

Lower700 MHz	Downlink(728-746MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	735.20	-68.54	733.33	-72.62	4.08	<12	88	300	Pass
+4	735.20	-68.40	733.33	-72.64	4.24	<12	89	300	Pass
+3	735.20	-68.09	733.33	-72.73	4.64	<12	87	300	Pass
+2	735.20	-67.24	733.33	-73.39	6.15	<12	86	300	Pass
+1	735.20	-66.50	733.33	-73.71	7.21	<12	88	300	Pass
0	735.20	-66.12	733.33	-74.00	7.88	<12	85	300	Pass
-1	735.20	-64.85	733.33	-73.55	8.70	<12	87	300	Pass
-2	735.20	-63.32	733.33	-74.28	10.96	<12	89	300	Pass
-3	EUT Shutdown								

Upper700 MHz	Uplink(776-787MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	782.42	-59.57	784.01	-66.65	7.08	<12	55	300	Pass
+4	782.42	-58.75	784.01	-67.17	8.42	<12	52	300	Pass
+3	782.42	-58.19	784.01	-66.90	8.71	<12	54	300	Pass
+2	782.42	-57.39	784.01	-68.32	10.93	<12	56	300	Pass
+1	782.42	-57.03	784.01	-69.22	12.19	<12	53	300	Pass
0	782.42	-54.50	784.01	-68.55	14.05	<12	50	300	Pass
-1	782.42	-53.95	784.01	-68.91	14.96	<12	51	300	Pass
-2	EUT Shutdown								

Upper700 MHz	Downlink(746-757MHz)								
Signal Type	AWGN								
Isolation	Peak Oscillations		Minimal Level		Delta Value	Limit	Time to Mitigate	Mitigation Time	Result
	Freq.	Level	Freq.	Level					
dB	MHz	dBm	MHz	dBm	dB	dB	sec	sec	
+5	749.55	-67.03	747.51	-71.23	4.20	<12	88	300	Pass
+4	749.55	-66.77	747.51	-71.68	4.91	<12	87	300	Pass
+3	749.55	-66.08	747.51	-70.38	4.30	<12	89	300	Pass
+2	749.55	-65.50	747.51	-70.56	5.06	<12	84	300	Pass
+1	749.55	-64.92	747.51	-70.03	5.11	<12	88	300	Pass
0	749.55	-63.98	747.51	-69.26	5.28	<12	86	300	Pass
-1	749.55	-63.08	747.51	-69.53	6.45	<12	89	300	Pass
-2	749.55	-62.77	747.51	-70.14	7.37	<12	84	300	Pass
-3	749.55	-62.06	747.51	-70.42	8.36	<12	82	300	Pass
-4	749.55	-61.31	747.51	-71.27	9.96	<12	83	300	Pass
-5	749.55	-59.89	747.51	-70.60	10.71	<12	86	300	Pass