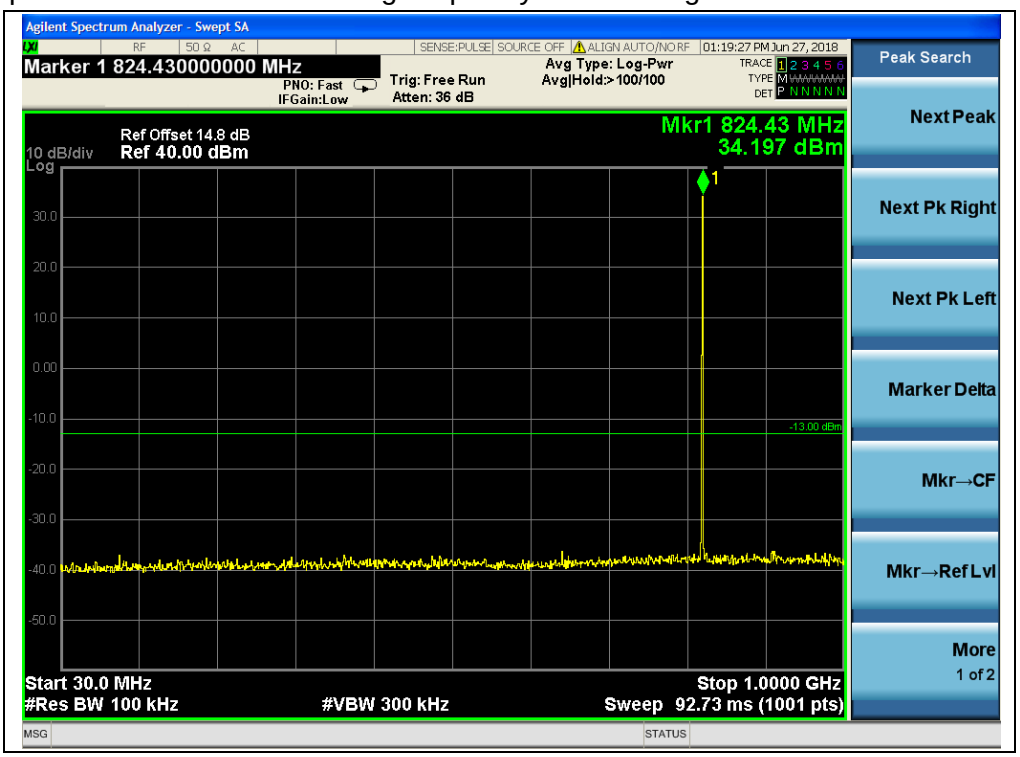
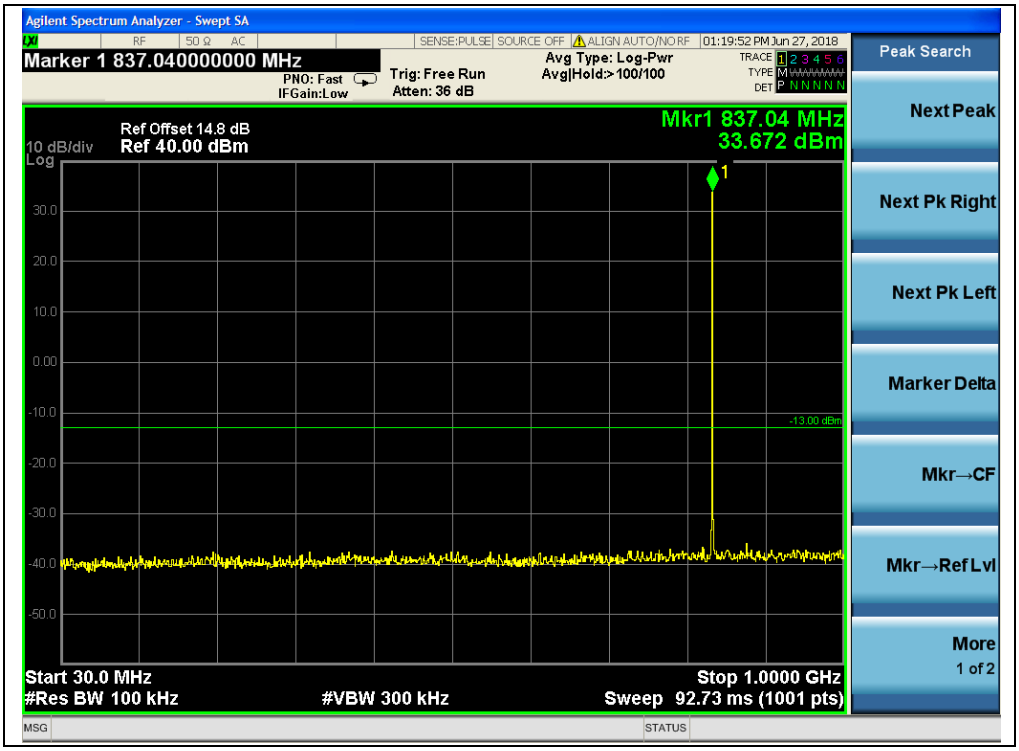
Test Plots:

Note: The power of the EUT transmitting frequency should be ignored.

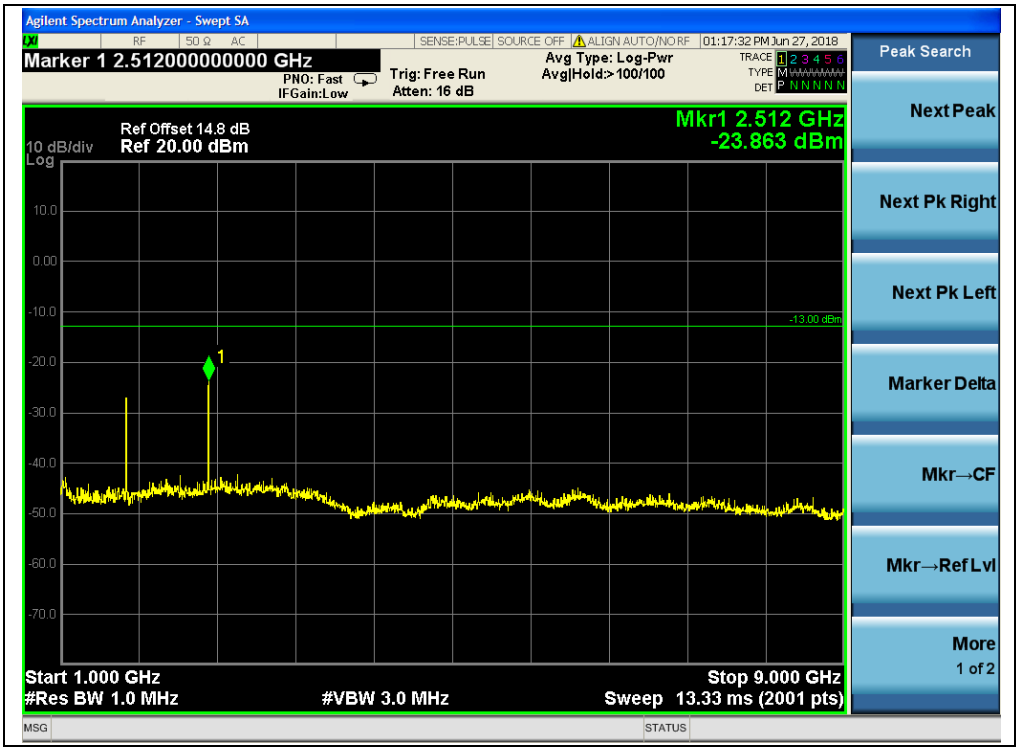


(Plot A1, GSM 850MHz, Channel = 128, 30MHz to 1GHz)

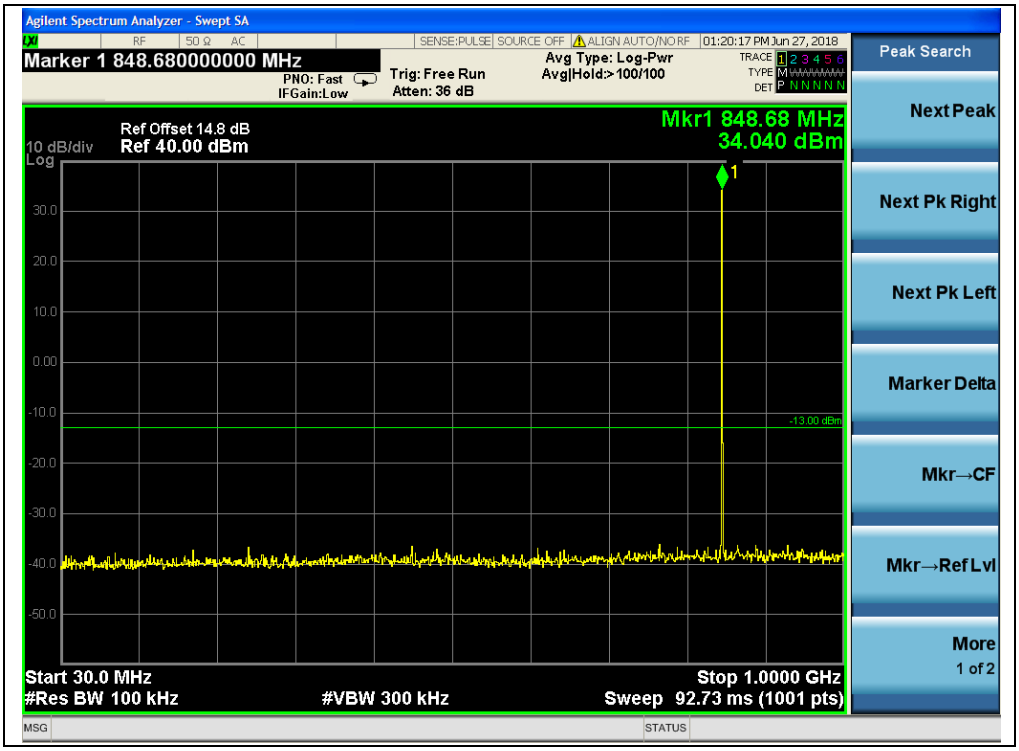
(Plot A1.1, GSM 850MHz, Channel = 128, 1GHz to 9GHz)



(Plot A2, GSM 850MHz, Channel = 190, 30MHz to 1GHz)

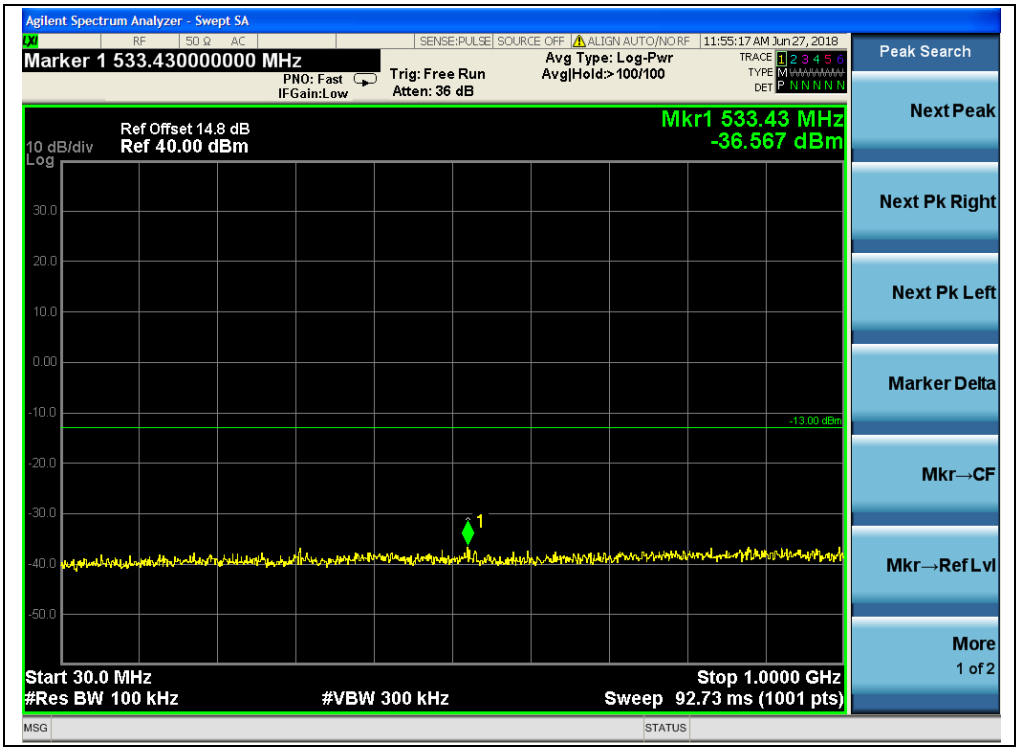


(Plot A2.1, GSM 850MHz, Channel = 190, 1GHz to 9GHz)

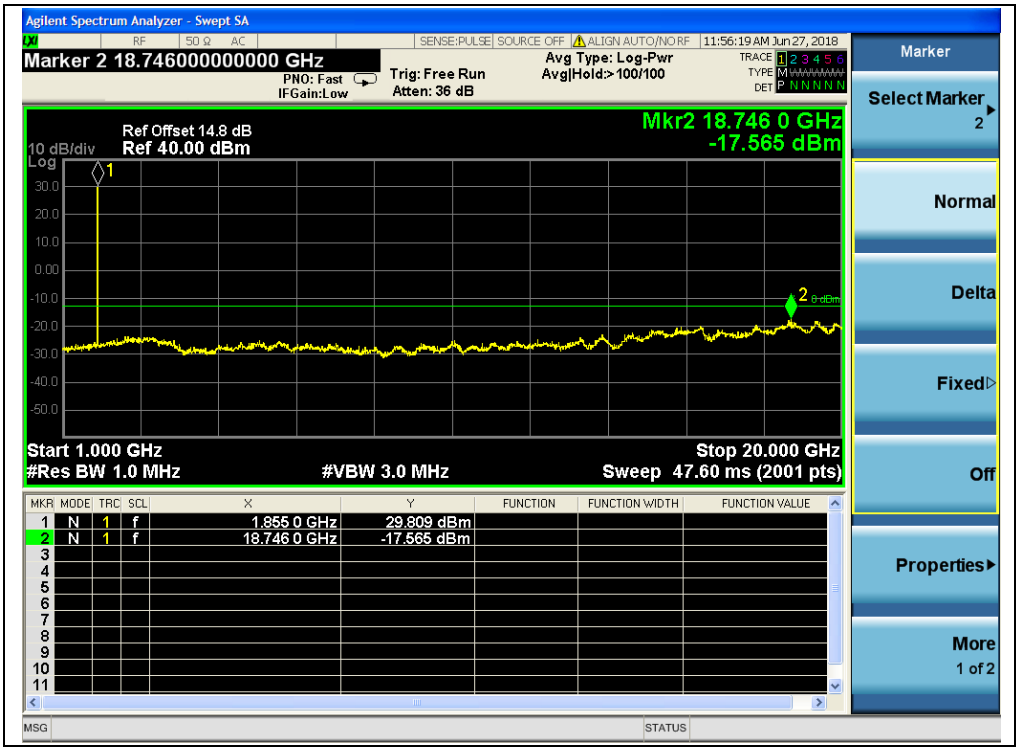


(Plot A3, GSM 850MHz, Channel = 251, 30MHz to 1GHz)

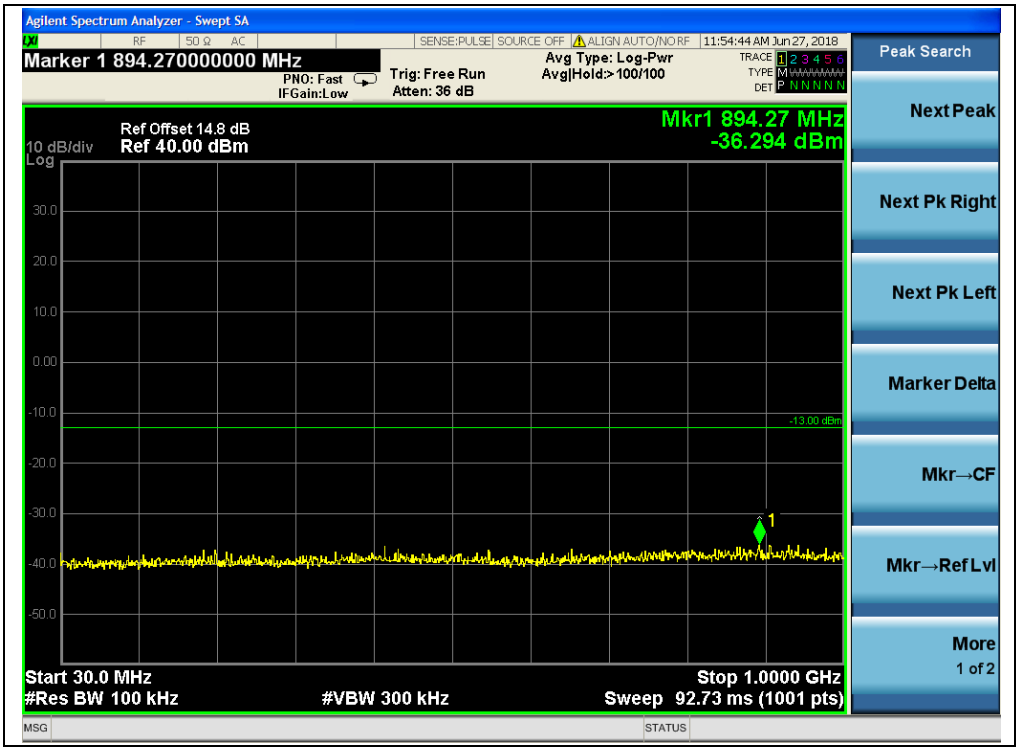
(Plot A3.1, GSM 850MHz, Channel = 251, 1GHz to 9GHz)



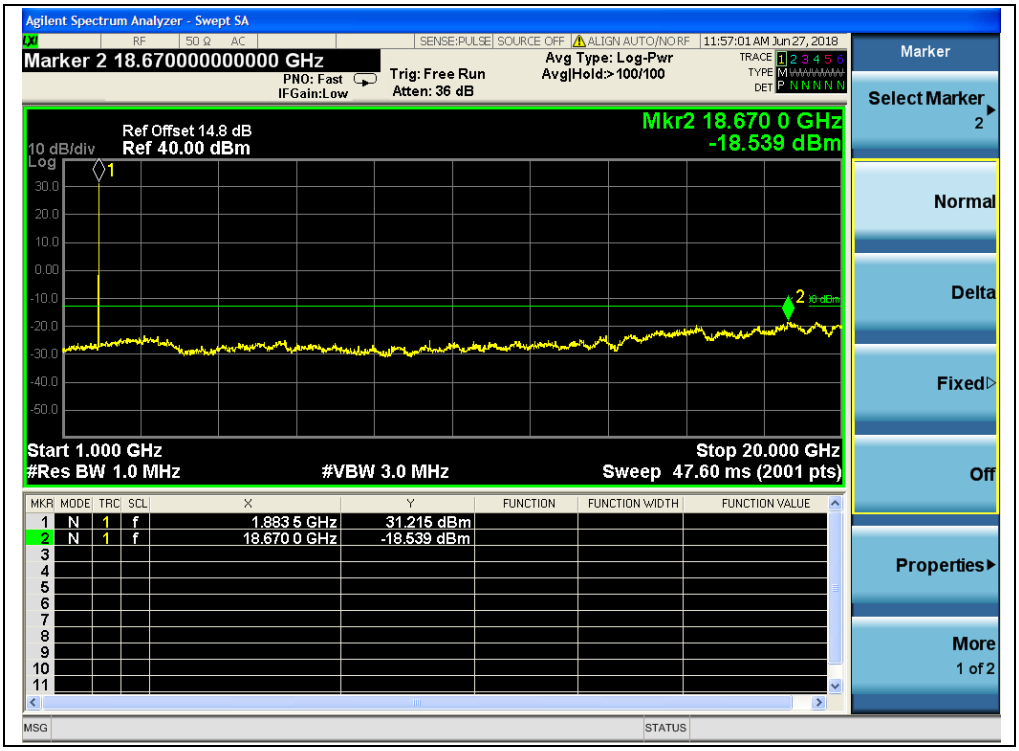
(Plot B1, GSM 1900MHz, Channel = 512, 30MHz to 1GHz)



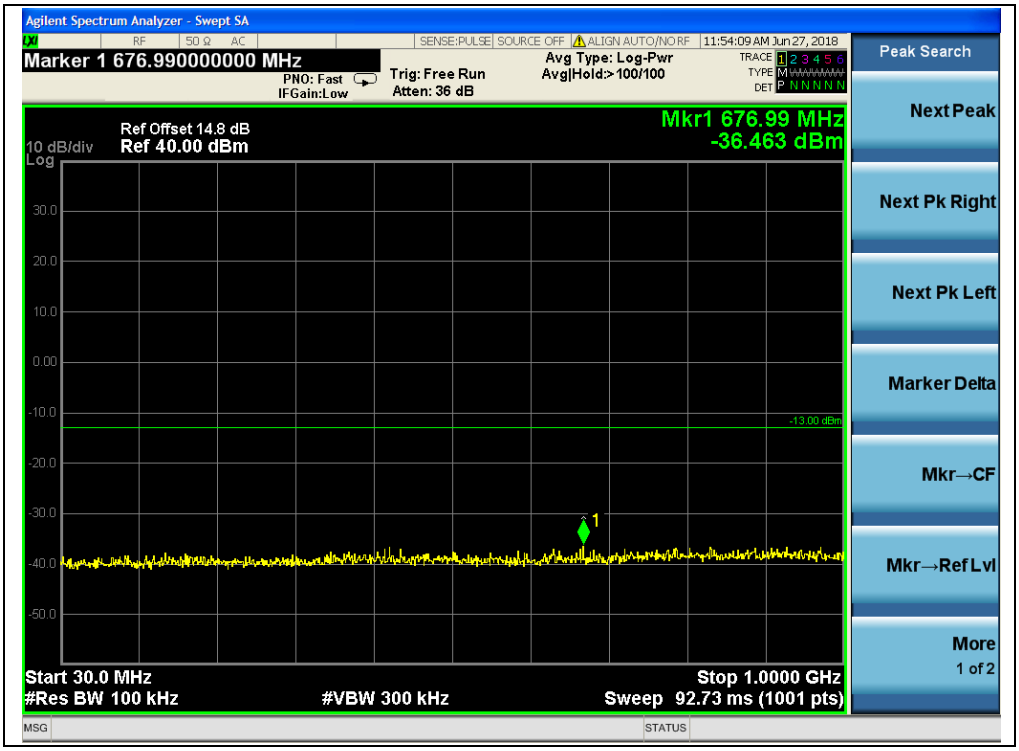
(Plot B1.1, GSM 1900MHz, Channel = 512, 1GHz to 20GHz)



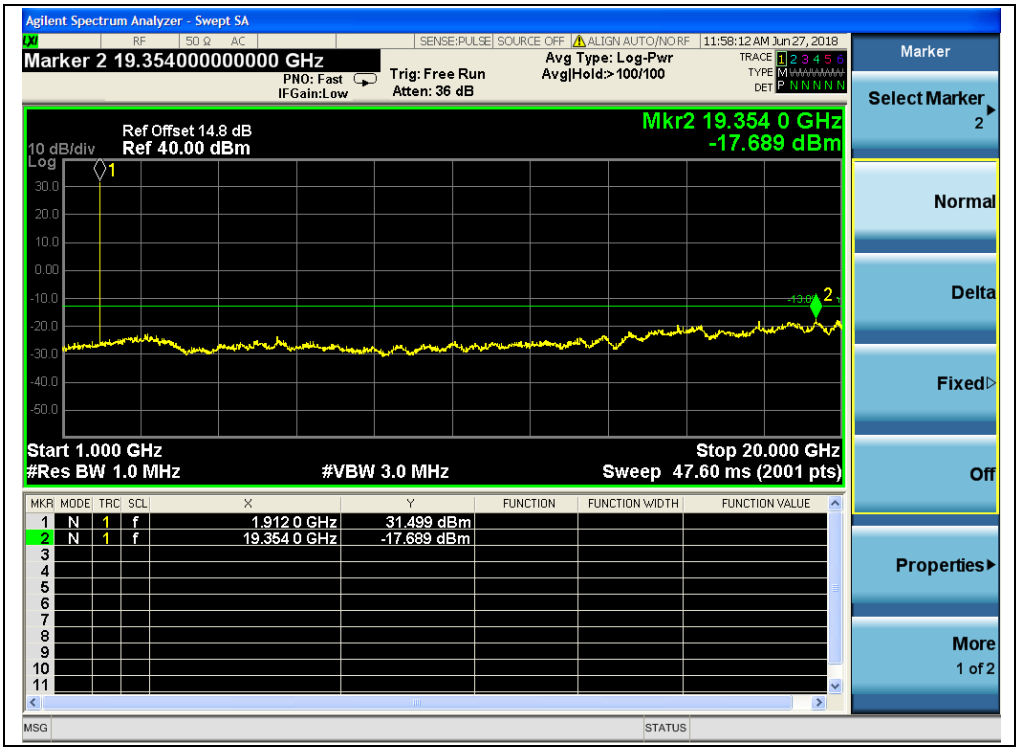
(Plot B2, GSM 1900MHz, Channel = 661, 30MHz to 1GHz)



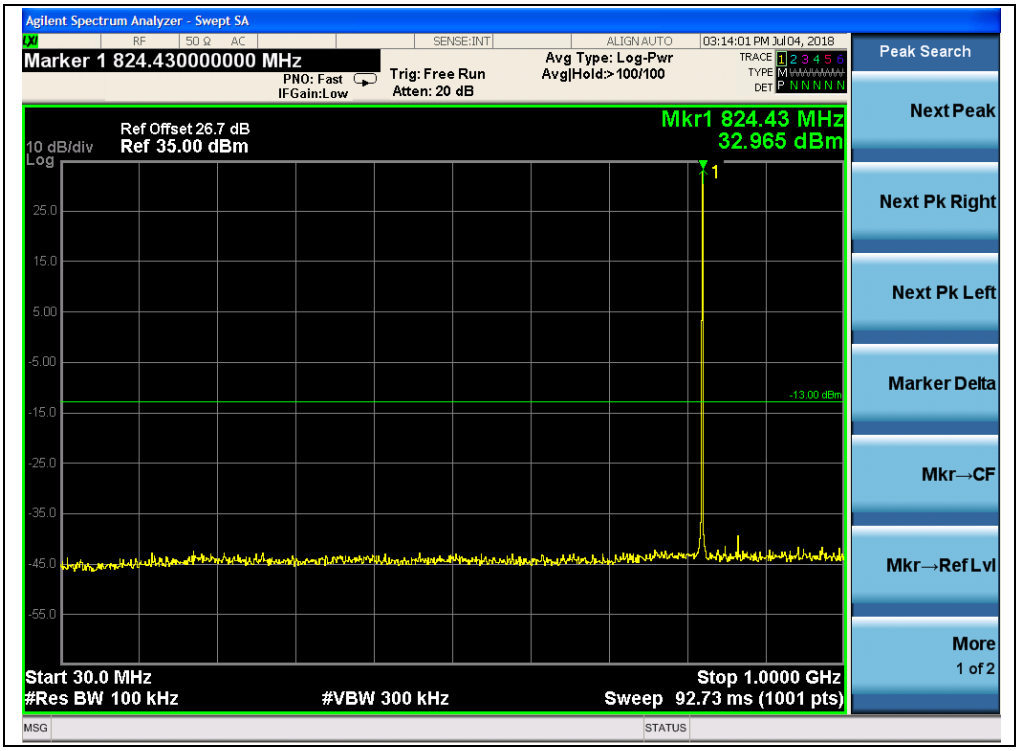
(Plot B2.1, GSM 1900MHz, Channel = 661, 1GHz to 20GHz)



(Plot B3, GSM 1900MHz, Channel = 810, 30MHz to 1GHz)



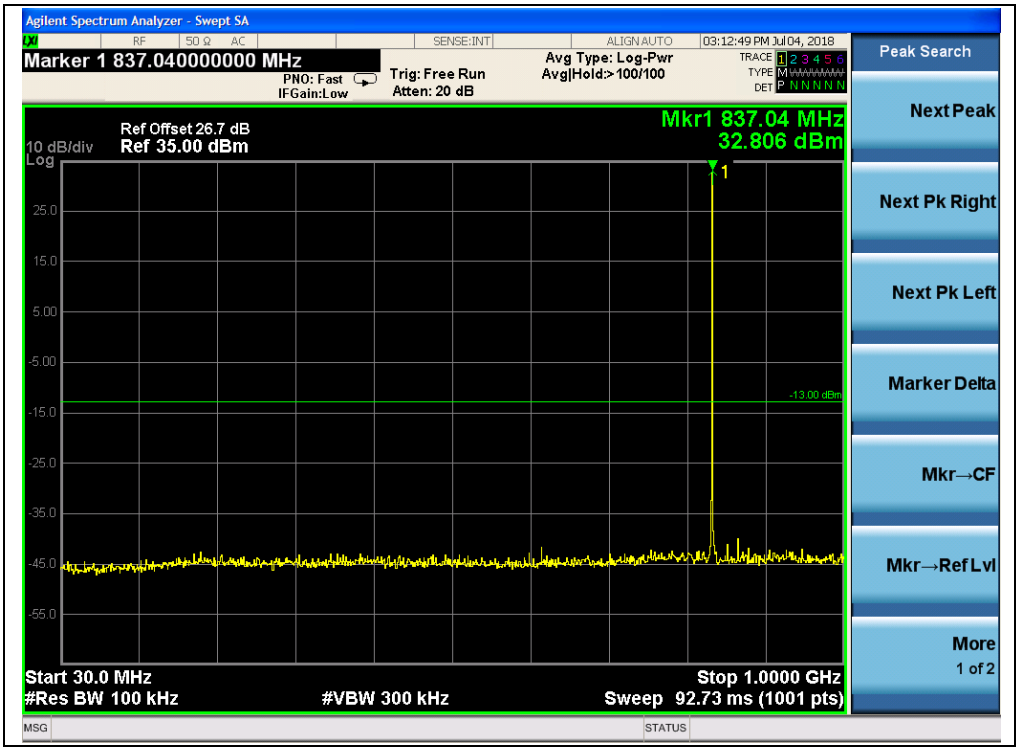
(Plot B3.1, GSM 1900MHz, Channel = 810, 1GHz to 20GHz)



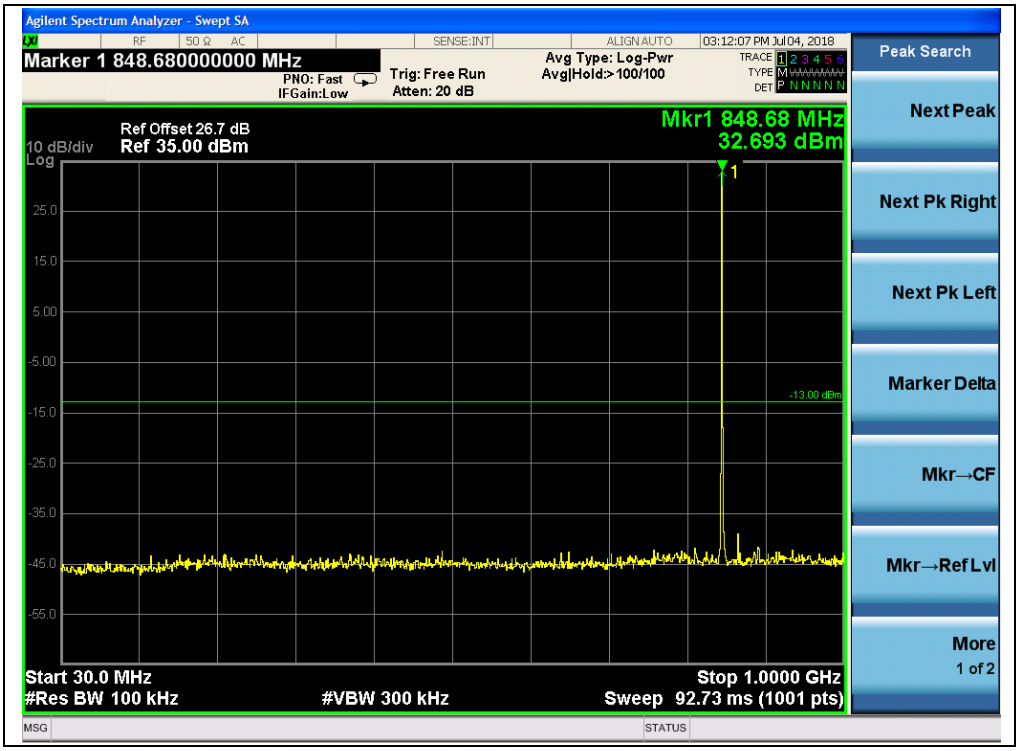
(Plot C1, EGPRS 850MHz, Channel = 128, 30MHz to 1GHz)

(Plot C1.1, EGPRS 850MHz, Channel = 128, 1GHz to 9GHz)

(Plot C2, EGPRS 850MHz, Channel = 190, 30MHz to 1GHz)

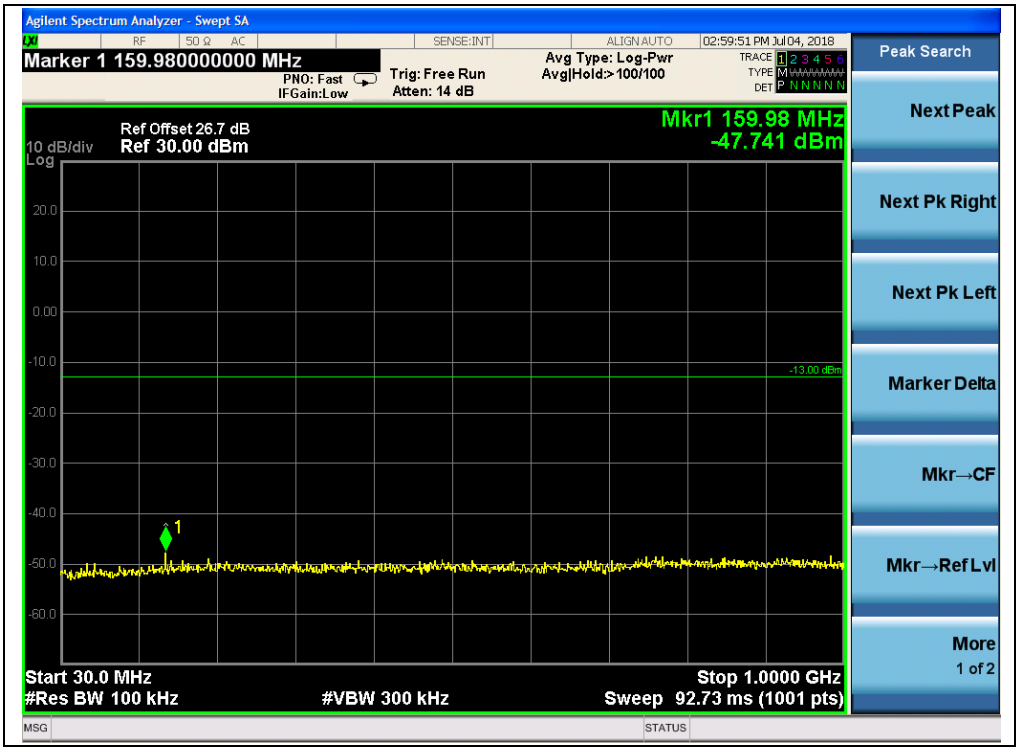


(Plot C2.1, EGPRS 850MHz, Channel = 190, 1GHz to 9GHz)

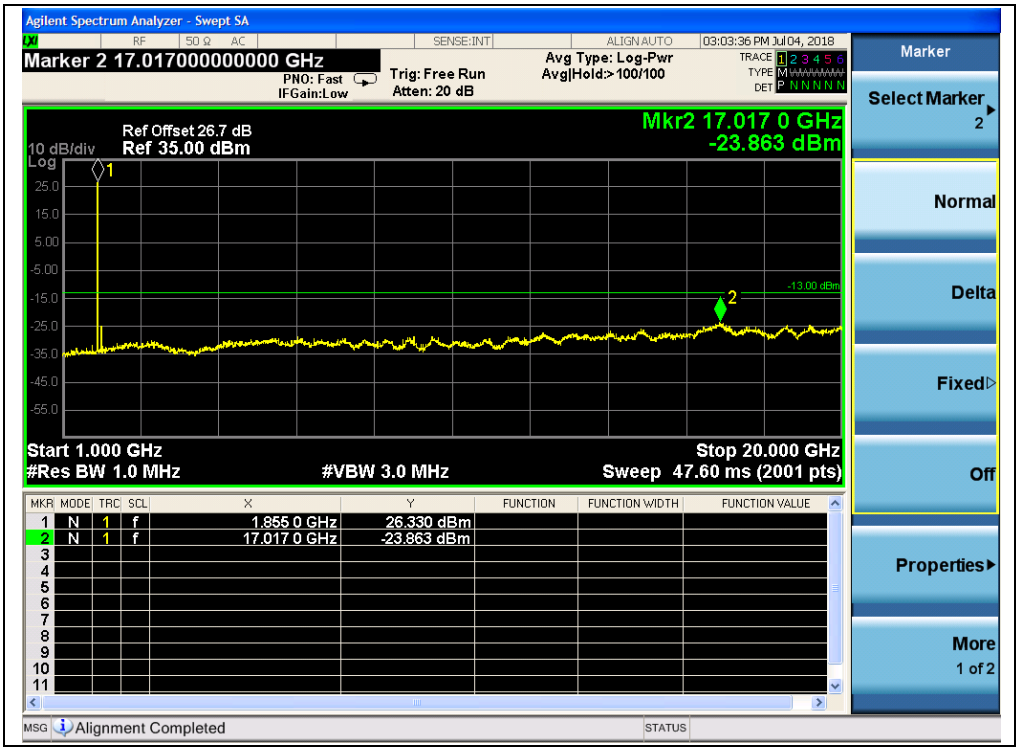


(Plot C3, EGPRS 850MHz, Channel = 251, 30MHz to 1GHz)

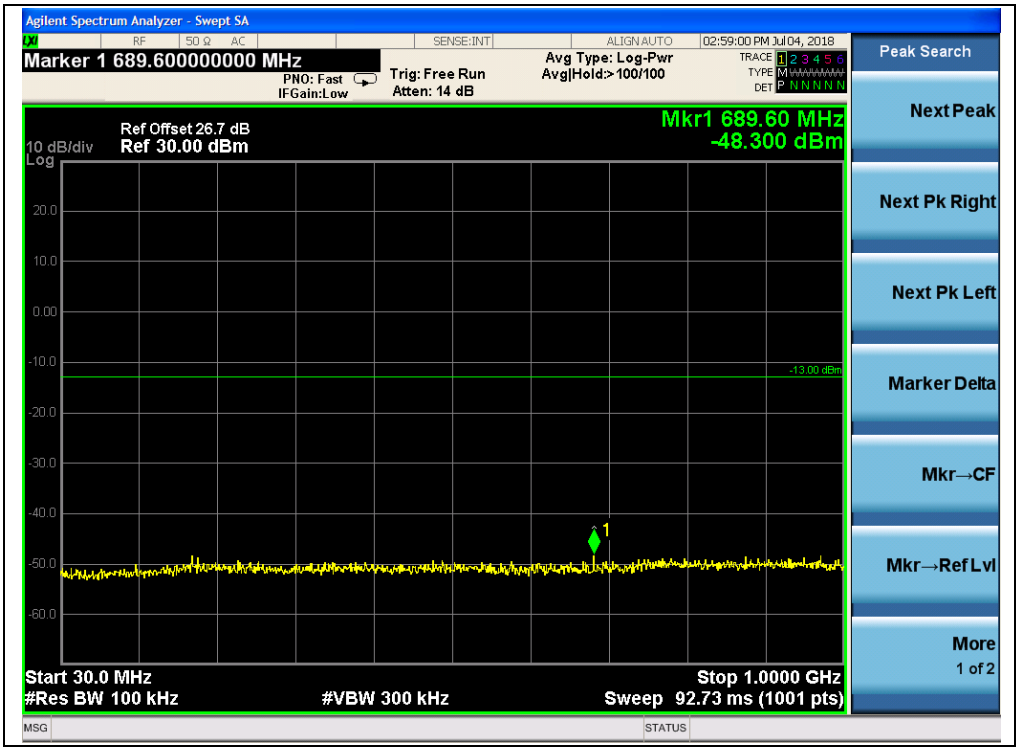
(Plot C3.1, EGPRS 850MHz, Channel = 251, 1GHz to 9GHz)



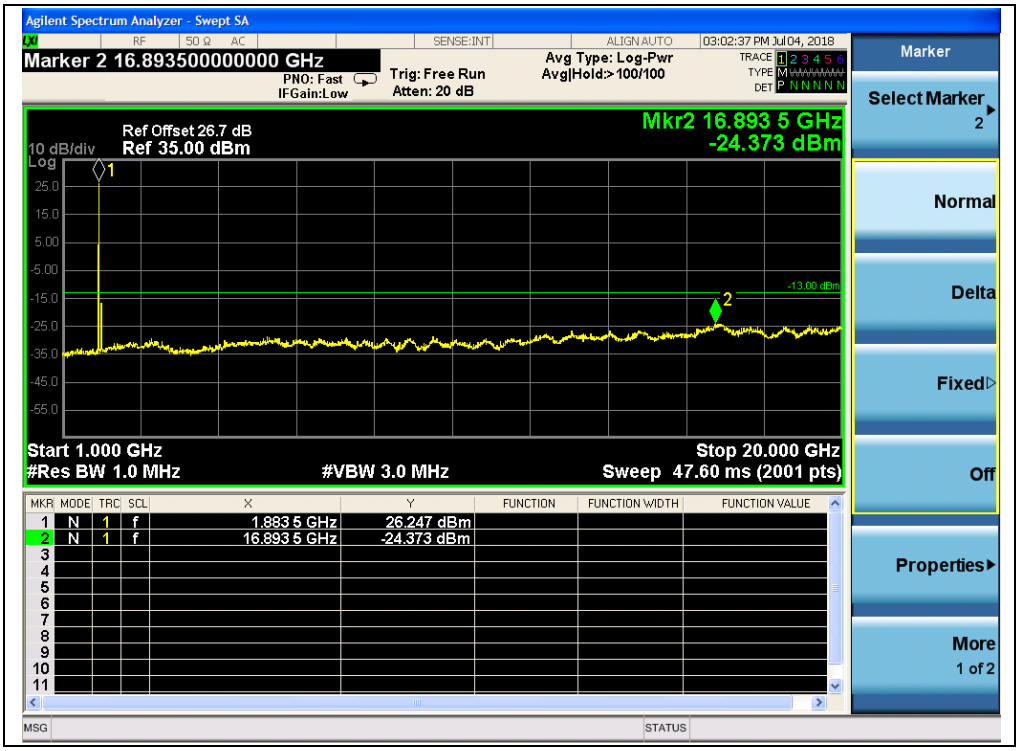
(Plot D1, EGPRS 1900MHz, Channel = 512, 30MHz to 1GHz)



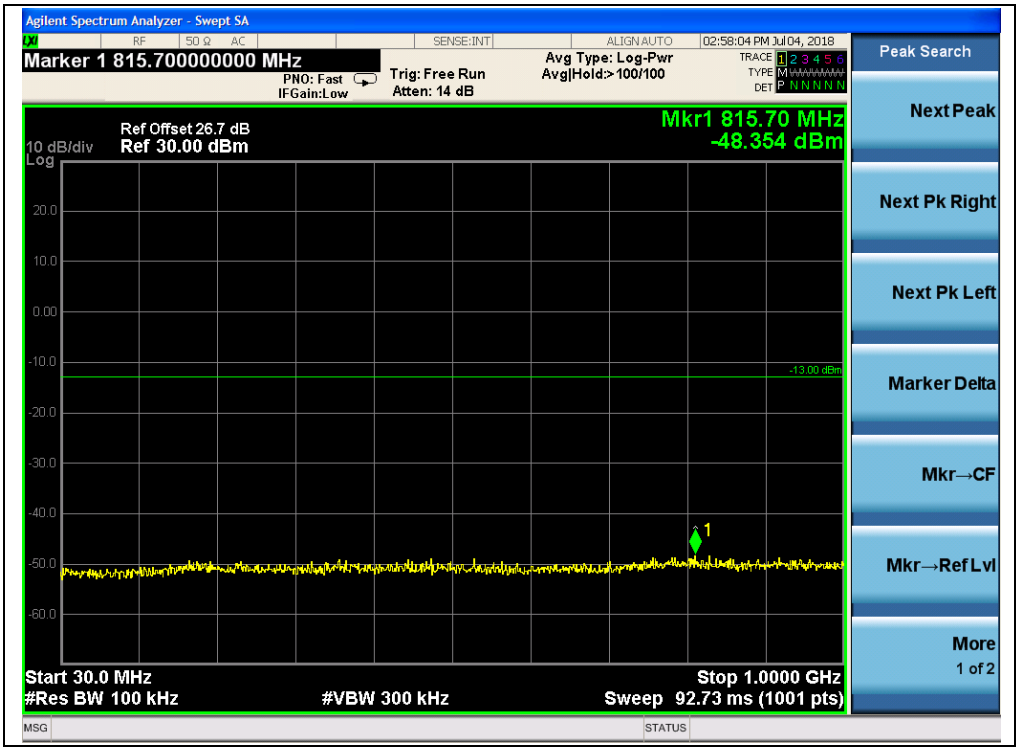
(Plot D1.1, EGPRS 1900MHz, Channel = 512, 1GHz to 20GHz)



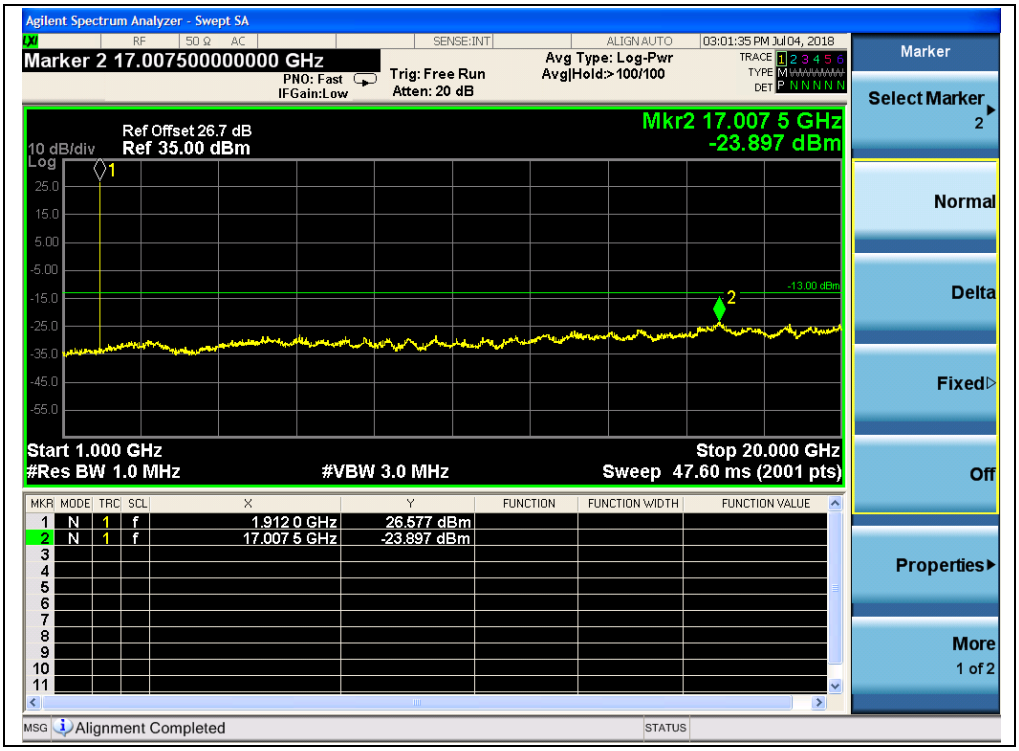
(Plot D2, EGPRS 1900MHz, Channel = 661, 30MHz to 1GHz)



(Plot D2.1, EGPRS 1900MHz, Channel = 661, 1GHz to 20GHz)



(Plot D3, EGPRS 1900MHz, Channel = 810, 30MHz to 1GHz)



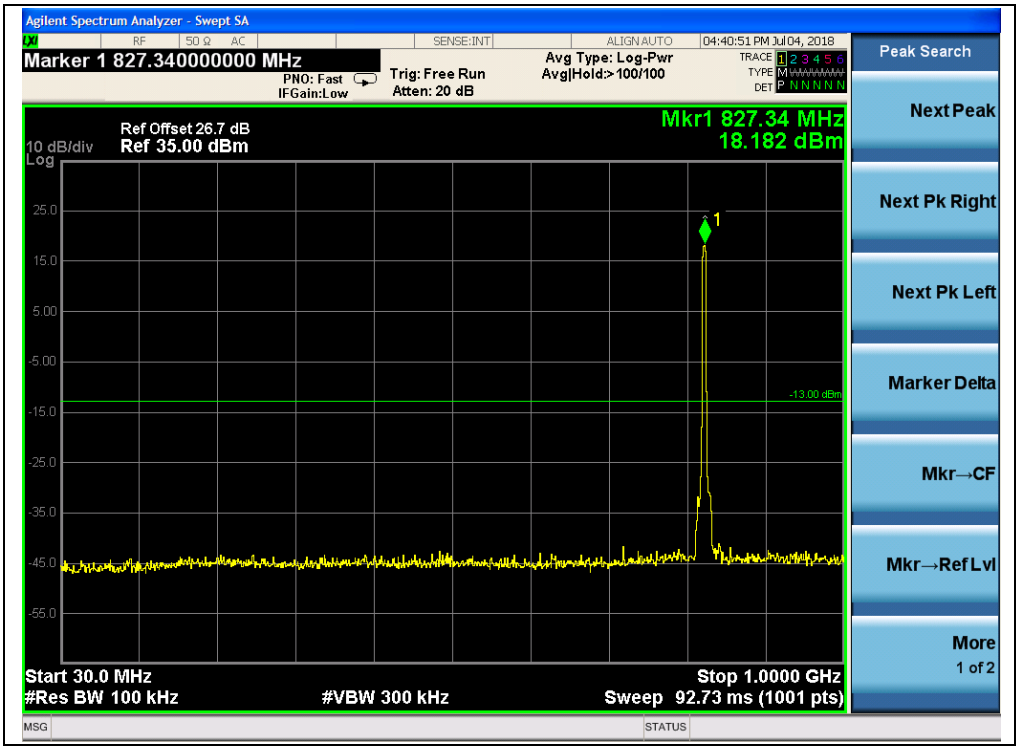
(Plot D3.1, EGPRS 1900MHz, Channel = 810, 1GHz to 20GHz)

WCDMA Test Verdict

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
WCDMA 850MHz	4132	826.4	-28.68	Plot G1 to G1.1	-13	PASS
	4175	835.0	-28.97	Plot G2 to G2.1		PASS
	4233	846.6	-28.61	Plot G3 to G3.1		PASS
WCDMA 1700MHz	1312	1712.4	-19.39	Plot H1 to H1.1	-13	PASS
	1412	1732.4	-19.98	Plot H2 to H2.1		PASS
	1513	1752.6	-19.13	Plot H3 to H3.1		PASS
WCDMA 1900MHz	9262	1852.4	-24.04	Plot I1 to I1.1	-13	PASS
	9400	1880.0	-23.69	Plot I2 to I2.1		PASS
	9538	1907.6	-23.70	Plot I3 to I3.1		PASS
HSDPA 850MHz	4132	826.4	-23.26	Plot J1 to J1.1	-13	PASS
	4175	835.0	-34.88	Plot J2 to J2.1		PASS
	4233	846.6	-27.07	Plot J3 to J3.1		PASS
HSDPA 1700MHz	1312	1712.4	-19.19	Plot K1 to K1.1	-13	PASS
	1412	1732.4	-20.21	Plot K2 to K2.1		PASS
	1513	1752.6	-20.28	Plot K3 to K3.1		PASS
HSDPA 1900MHz	9262	1852.4	-29.76	Plot L1 to L1.1	-13	PASS
	9400	1880.0	-29.52	Plot L2 to L2.1		PASS
	9538	1907.6	-29.51	Plot L3 to L3.1		PASS
HSUPA 850MHz	4132	826.4	-35.18	Plot M1 to M1.1	-13	PASS
	4175	835.0	-26.15	Plot M2 to M2.1		PASS
	4233	846.6	-30.76	Plot M3 to M3.1		PASS
HSUPA 1700MHz	1312	1712.4	-19.20	Plot N1 to N1.1	-13	PASS
	1412	1732.4	-18.89	Plot N2 to N2.1		PASS
	1513	1752.6	-19.53	Plot N3 to N3.1		PASS
HSUPA 1900MHz	9262	1852.4	-29.04	Plot O1 to M1.1	-13	PASS
	9400	1880.0	-29.65	Plot O2 to M2.1		PASS
	9538	1907.6	-30.11	Plot O3 to M3.1		PASS
HSPA+ 850 MHz	4132	826.4	-33.88	Plot P1 to N1.1	-13	PASS
	4175	835.0	-32.42	Plot P2 to N2.1		PASS
	4233	846.6	-31.81	Plot P3 to N3.1		PASS
HSPA+ 1700MHz	1312	1712.4	-19.99	Plot Q1 to M1.1	-13	PASS
	1412	1732.4	-20.09	Plot Q2 to M2.1		PASS
	1513	1752.6	-18.87	Plot Q3 to M3.1		PASS

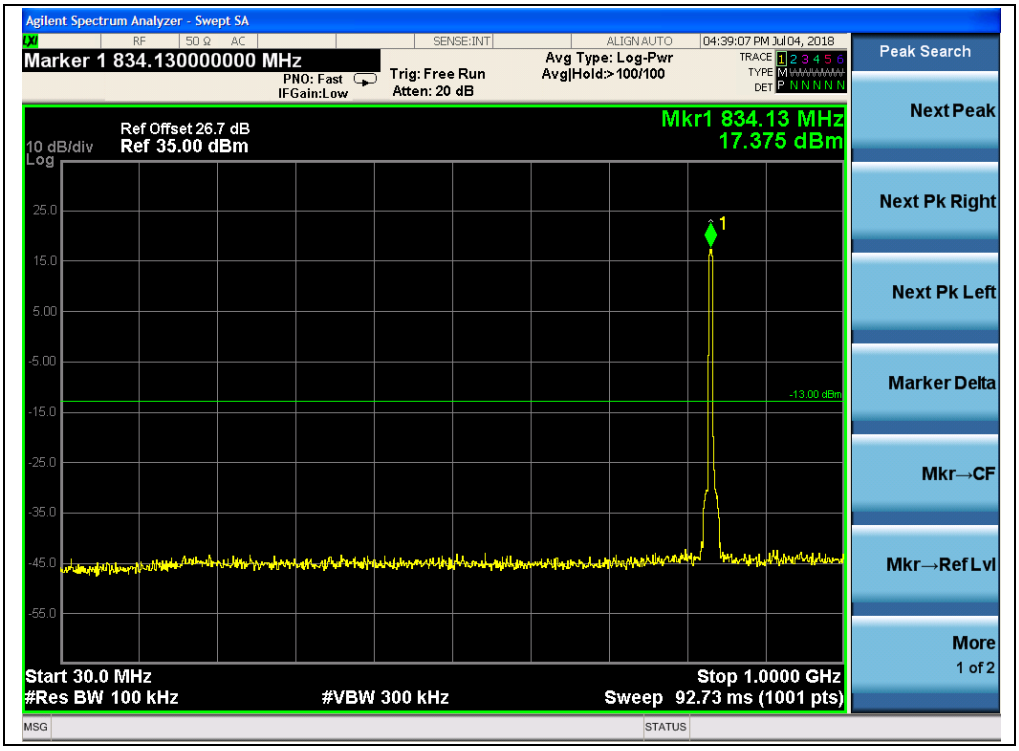
HSPA+ 1900MHz	9262	1852.4	-30.38	Plot R1 to N1.1	-13	PASS
	9400	1880.0	-30.35	Plot R2 to N2.1		PASS
	9538	1907.6	-30.36	Plot R3 to N3.1		PASS

Test Plot



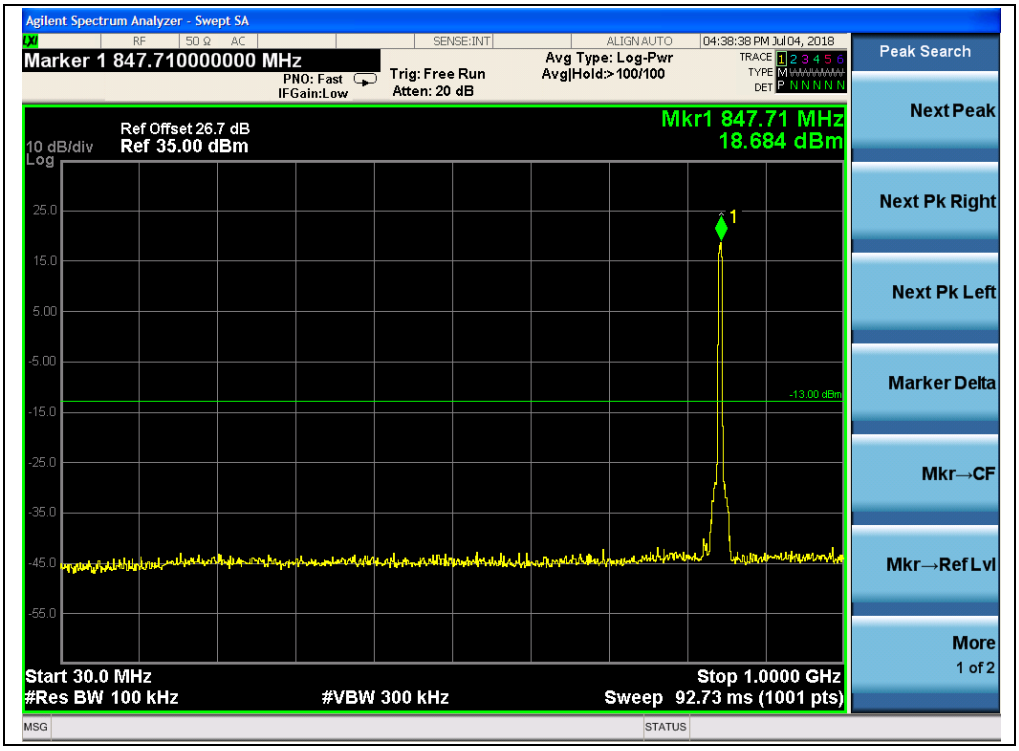
(Plot G1, WCDMA850MHz, Channel = 4132, 30MHz to 1GHz)

(Plot G1.1, WCDMA850MHz, Channel = 4132, 1GHz to 9GHz)



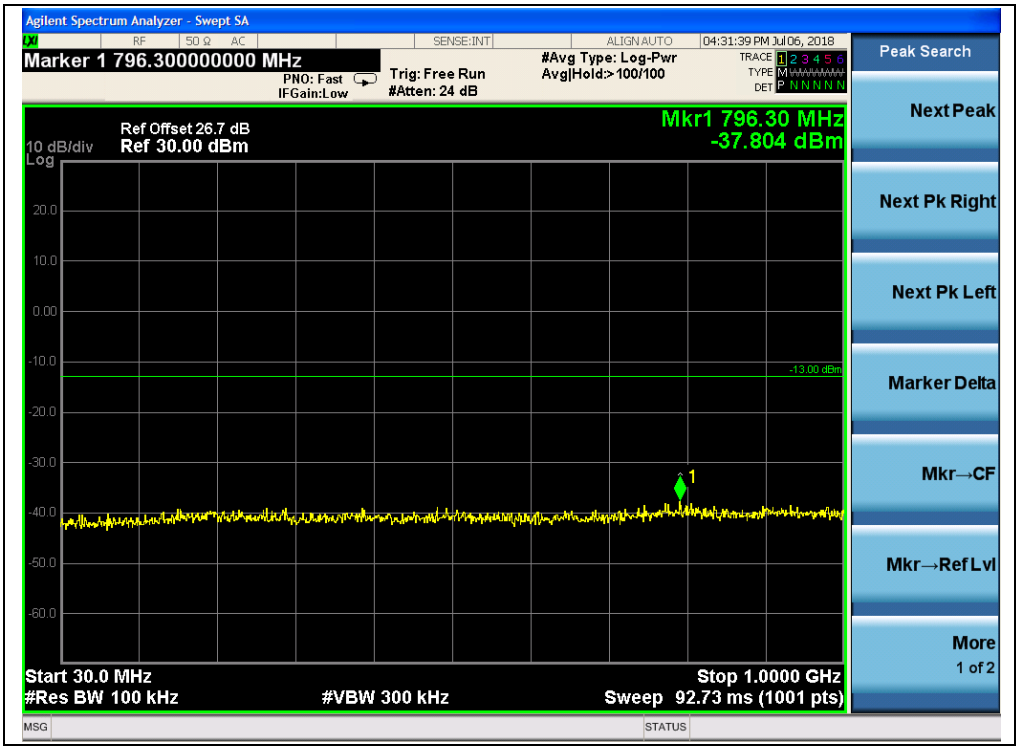
(Plot G2, WCDMA850MHz, Channel = 4175, 30MHz to 1GHz)

(Plot G2.1, WCDMA850MHz, Channel = 4175, 1GHz to 9GHz)

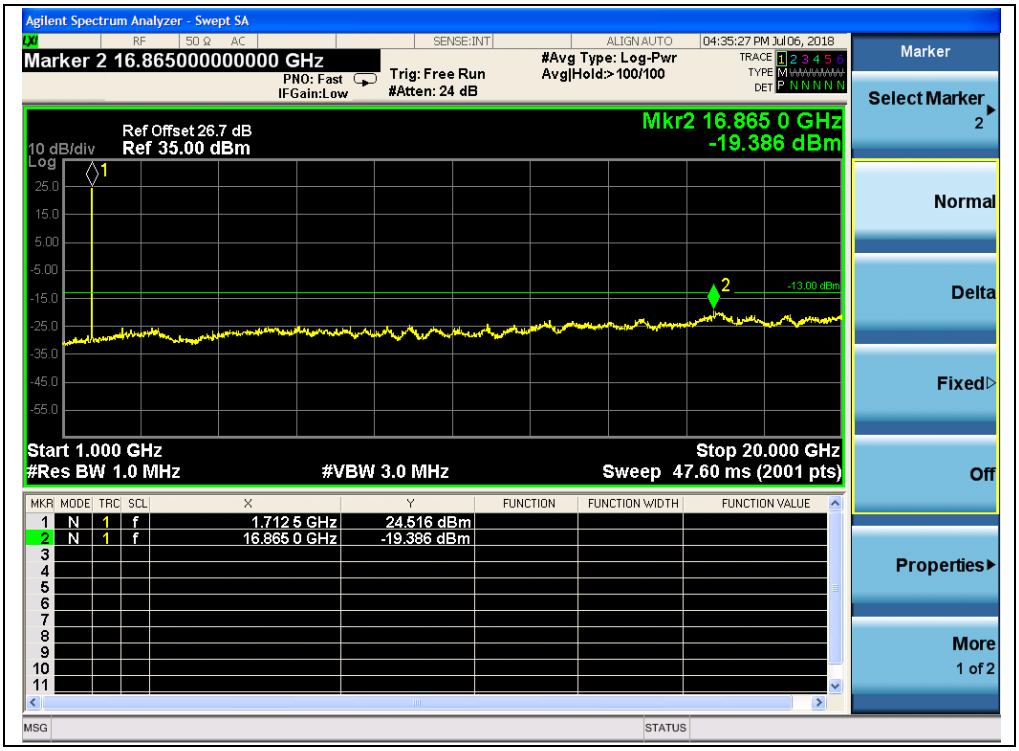


(Plot G3, WCDMA850MHz, Channel = 4233, 30MHz to 1GHz)

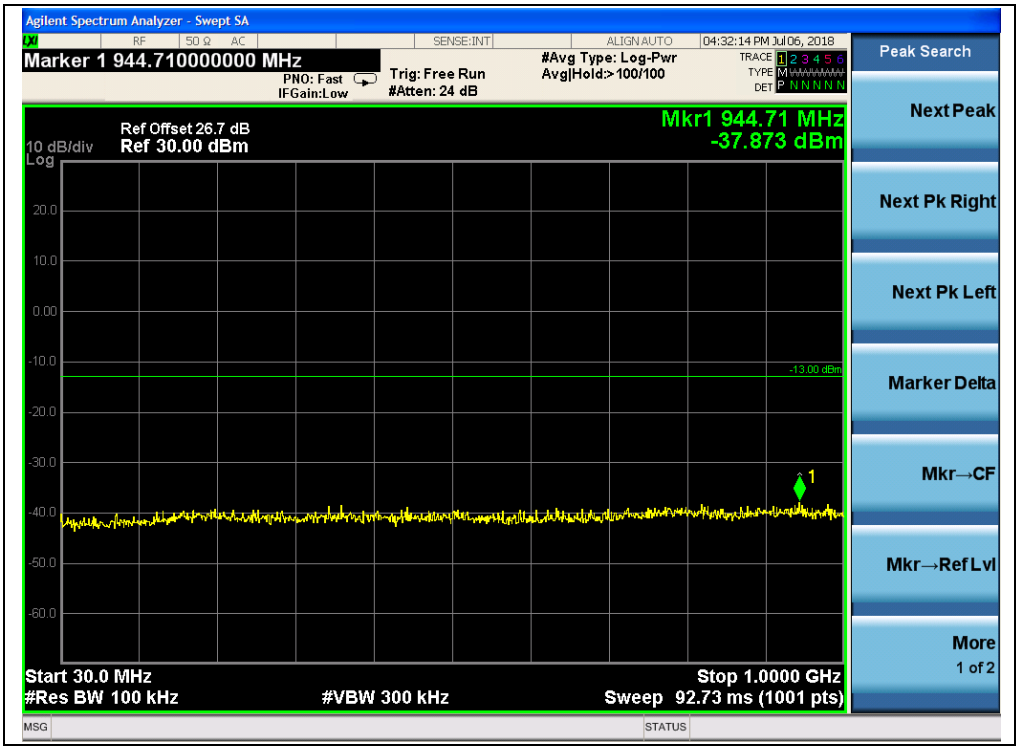
(Plot G3.1, WCDMA850MHz, Channel = 4233, 1GHz to 9GHz)



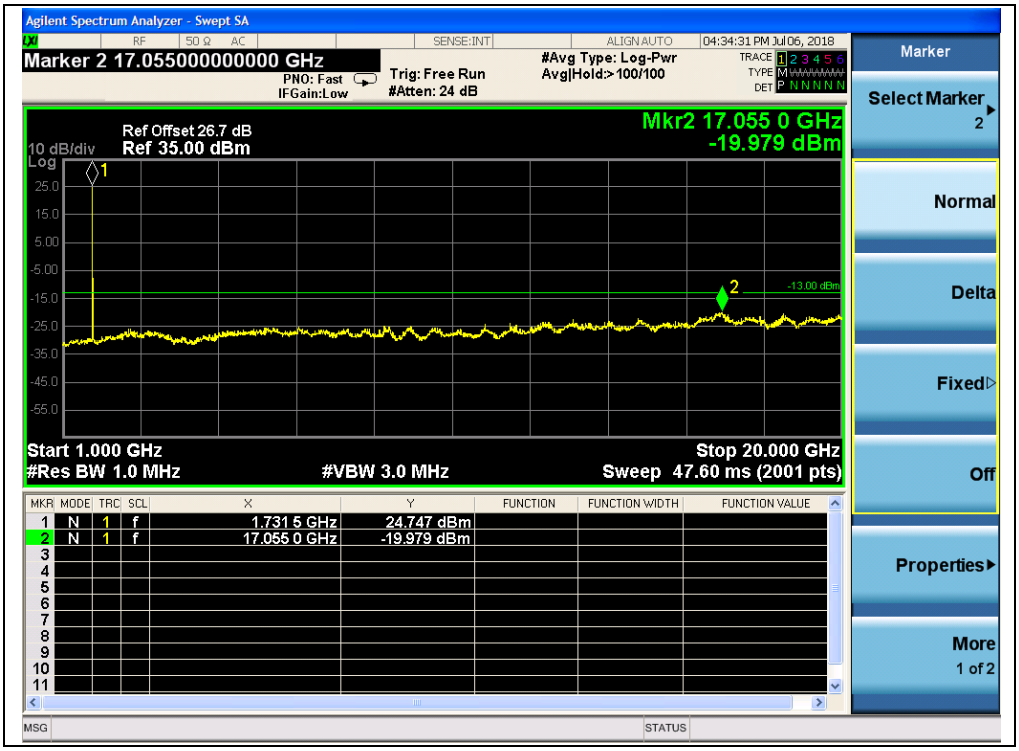
(Plot H1, WCDMA1700MHz, Channel = 1312, 30MHz to 1GHz)



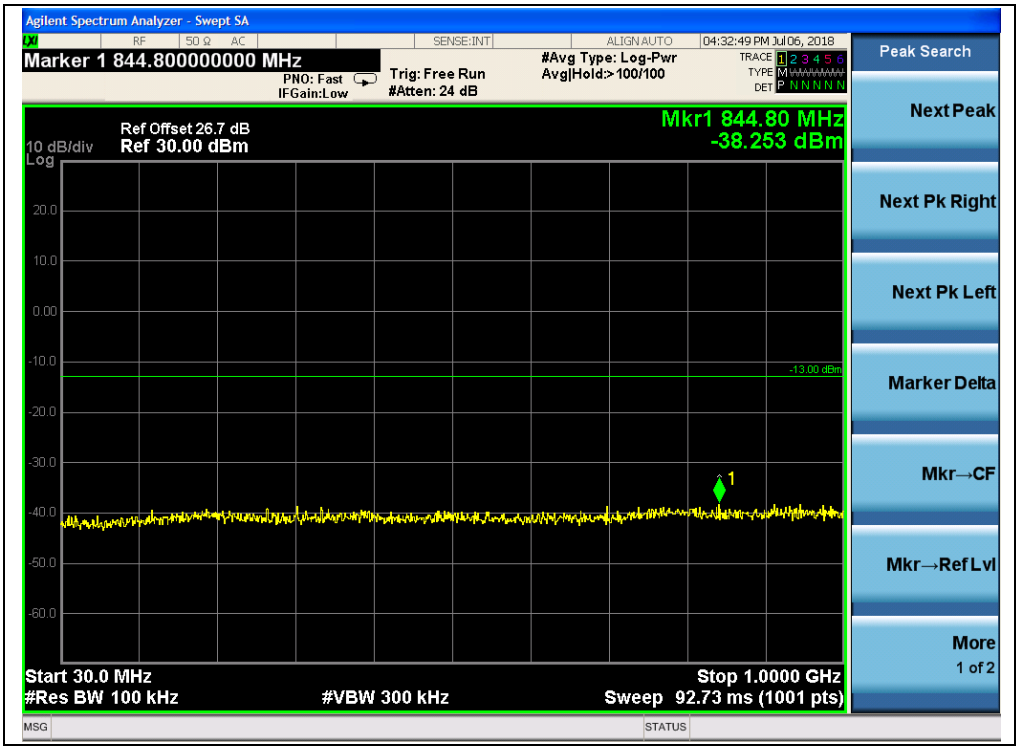
(Plot H1.1, WCDMA1700MHz, Channel = 1312, 1GHz to 20GHz)



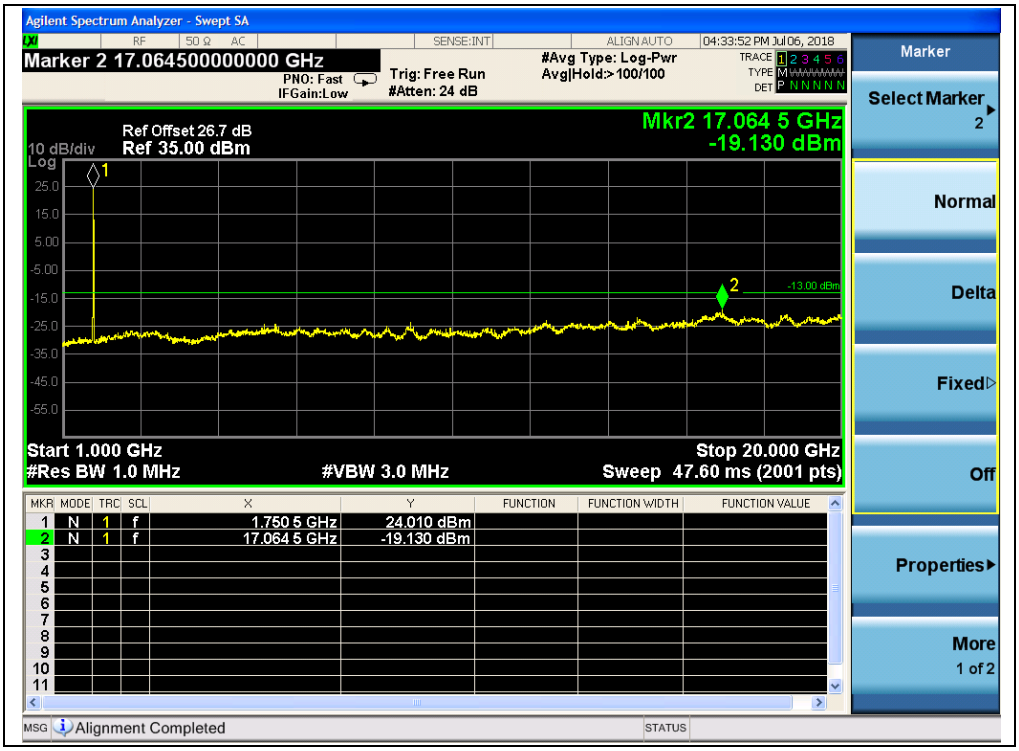
(Plot H2, WCDMA1700MHz, Channel = 1412, 30MHz to 1GHz)



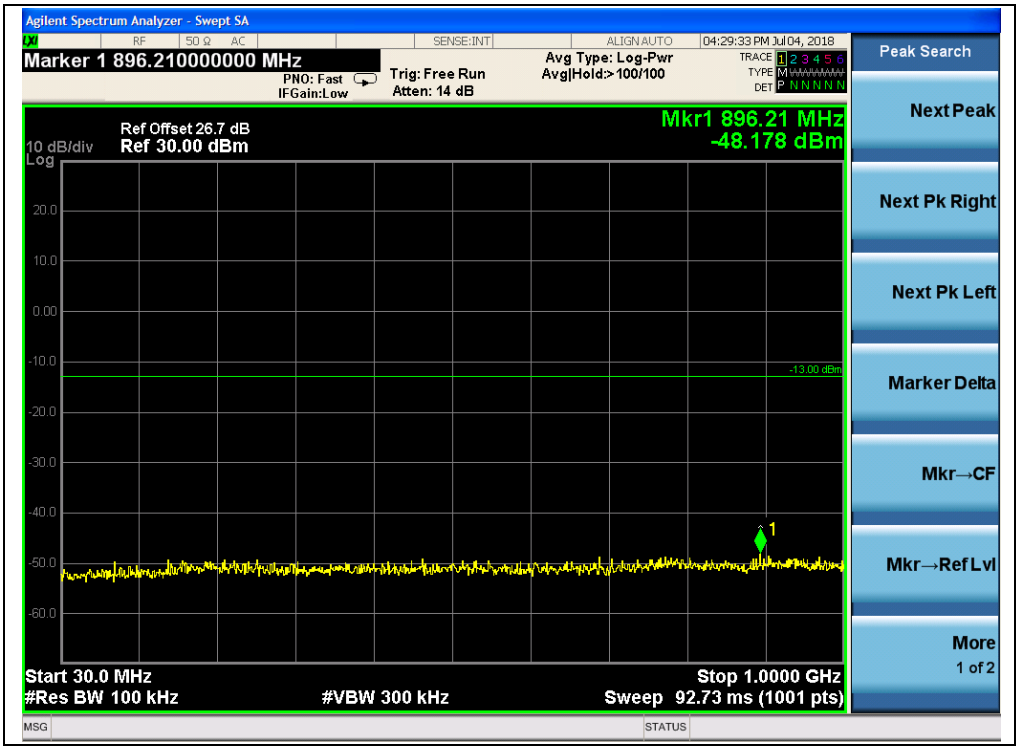
(Plot H2.1, WCDMA1700MHz, Channel = 1412, 1GHz to 20GHz)



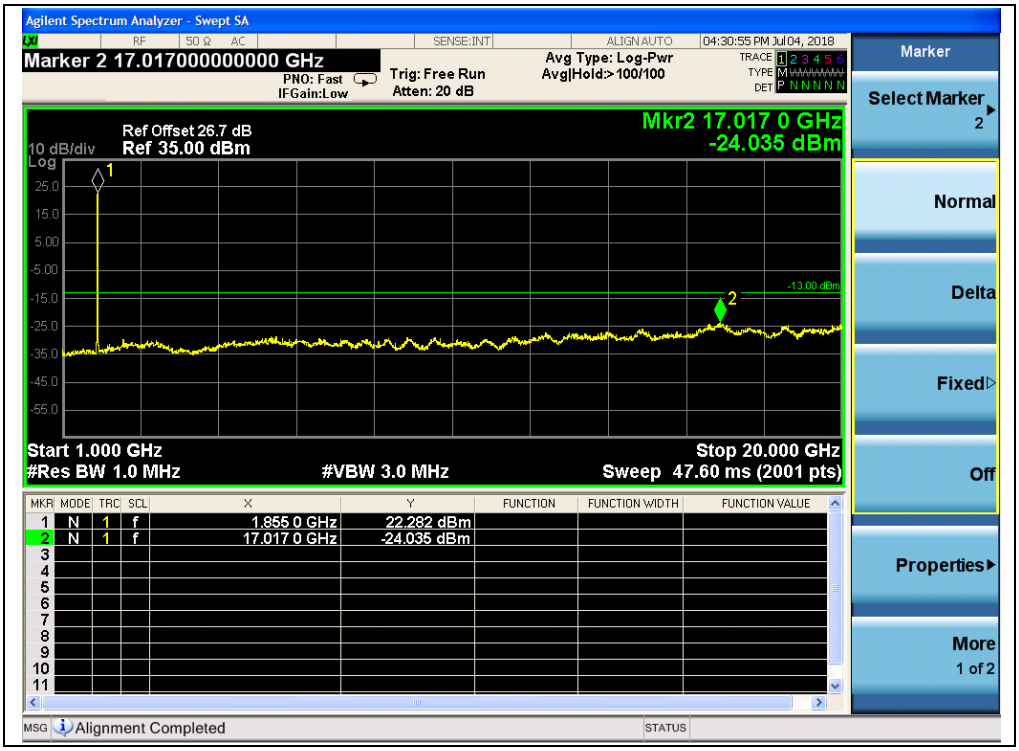
(Plot H3, WCDMA1700MHz, Channel = 1513, 30MHz to 1GHz)



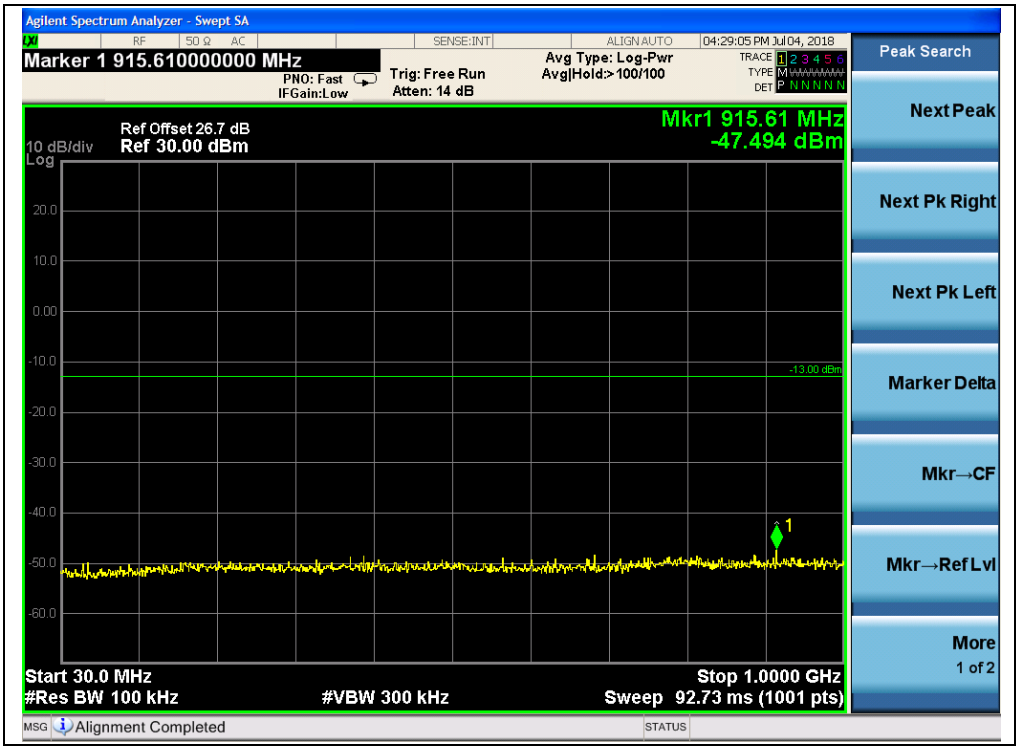
(Plot H3.1: WCDMA1700MHz Channel = 1513, 1GHz to 20GHz)



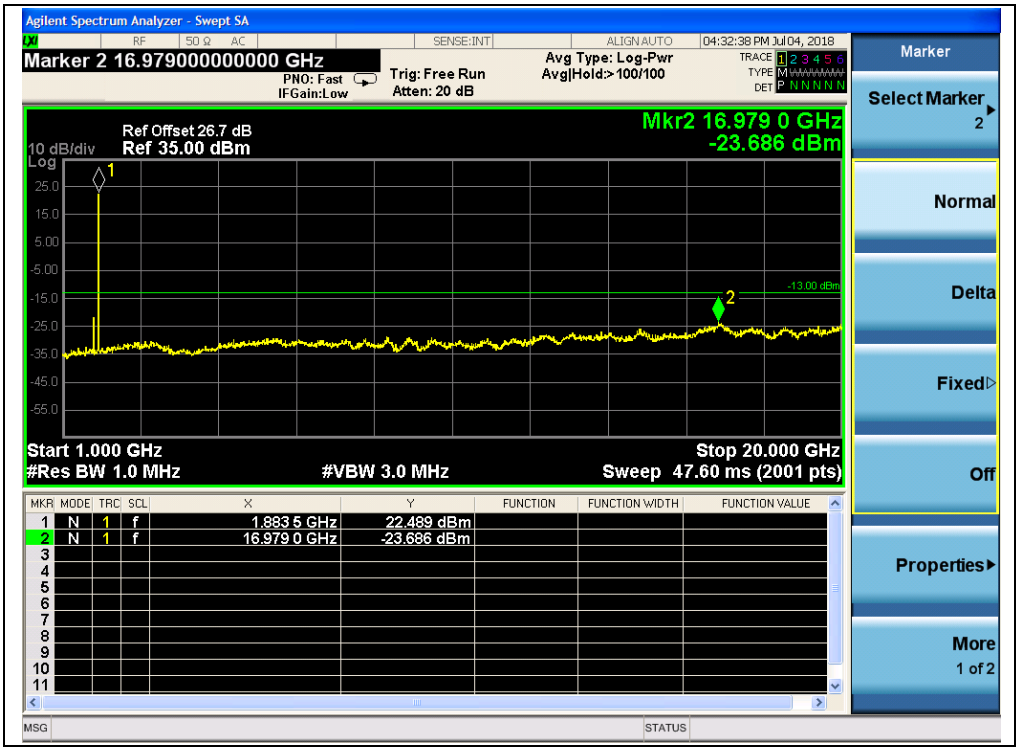
(Plot I1, WCDMA1900MHz, Channel = 9262, 30MHz to 1GHz)



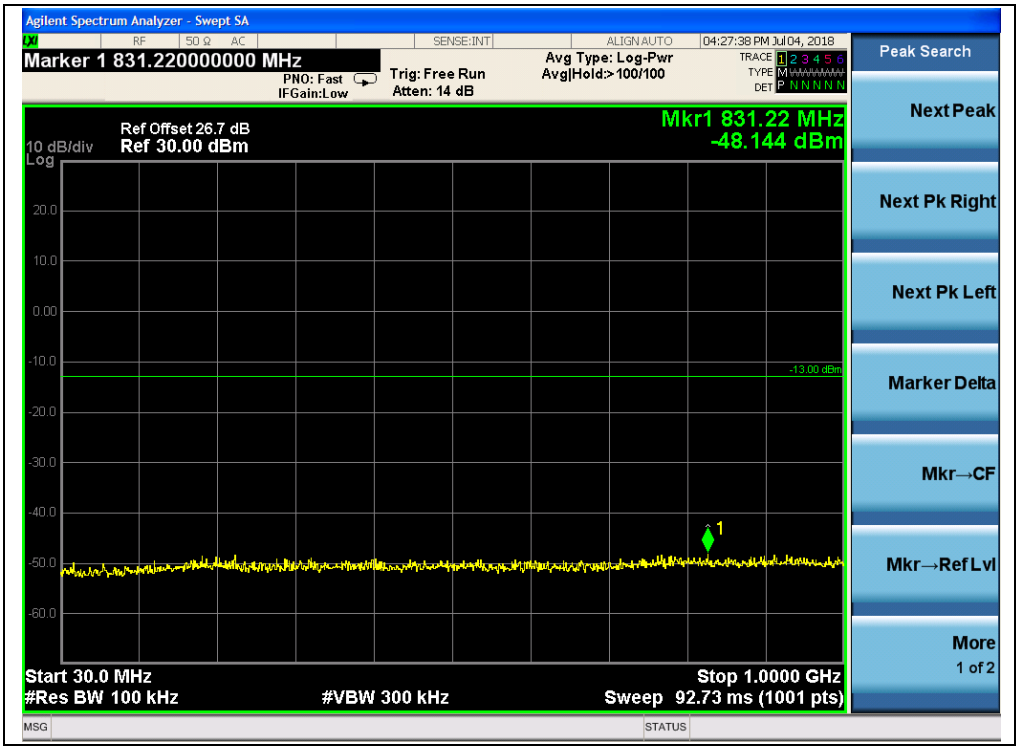
(Plot I1.1, WCDMA1900MHz, Channel = 9262, 1GHz to 20GHz)



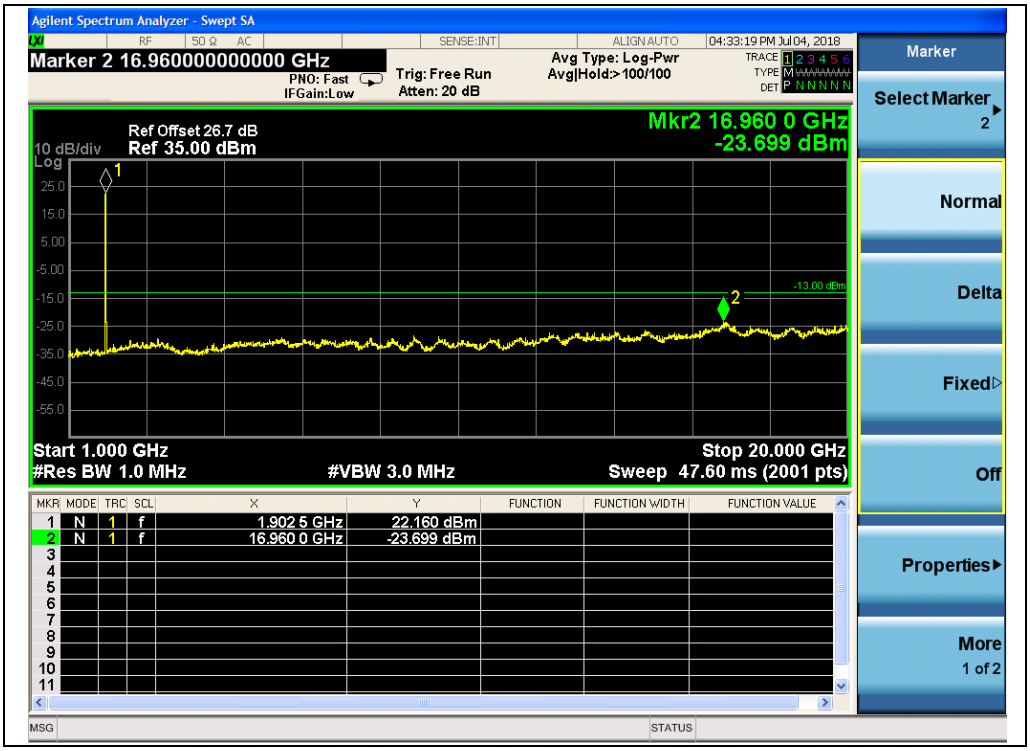
(Plot I2, WCDMA1900MHz, Channel = 9400, 30MHz to 1GHz)



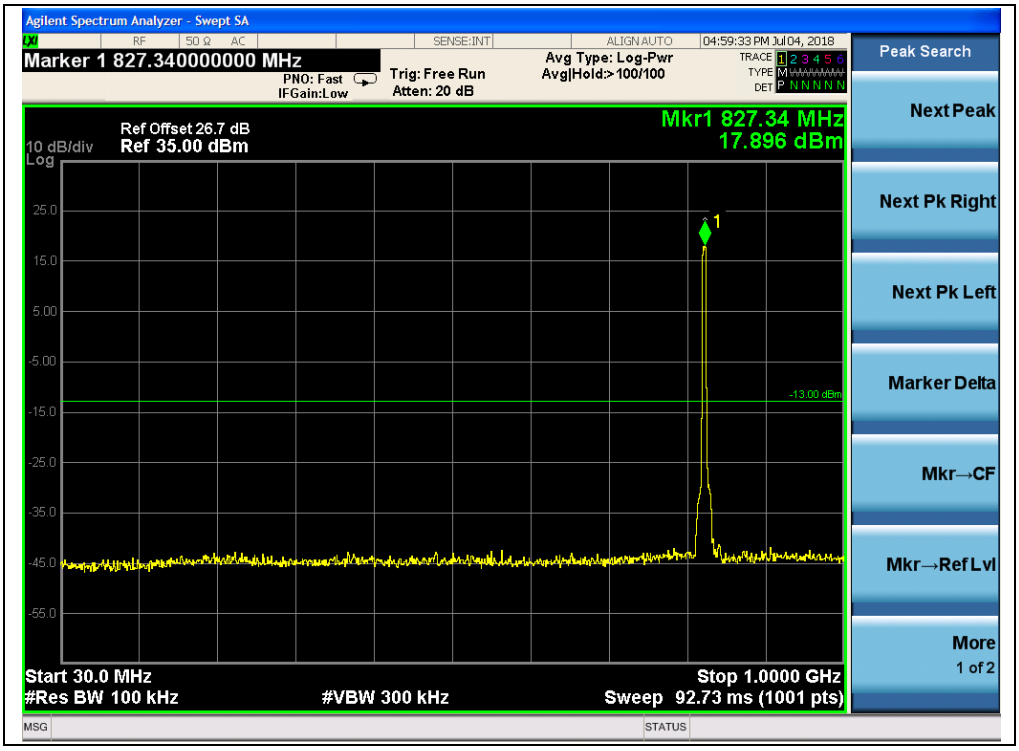
(Plot I2.1, WCDMA1900MHz, Channel = 9400, 1GHz to 20GHz)



(Plot I3, WCDMA1900MHz, Channel = 9538, 30MHz to 1GHz)

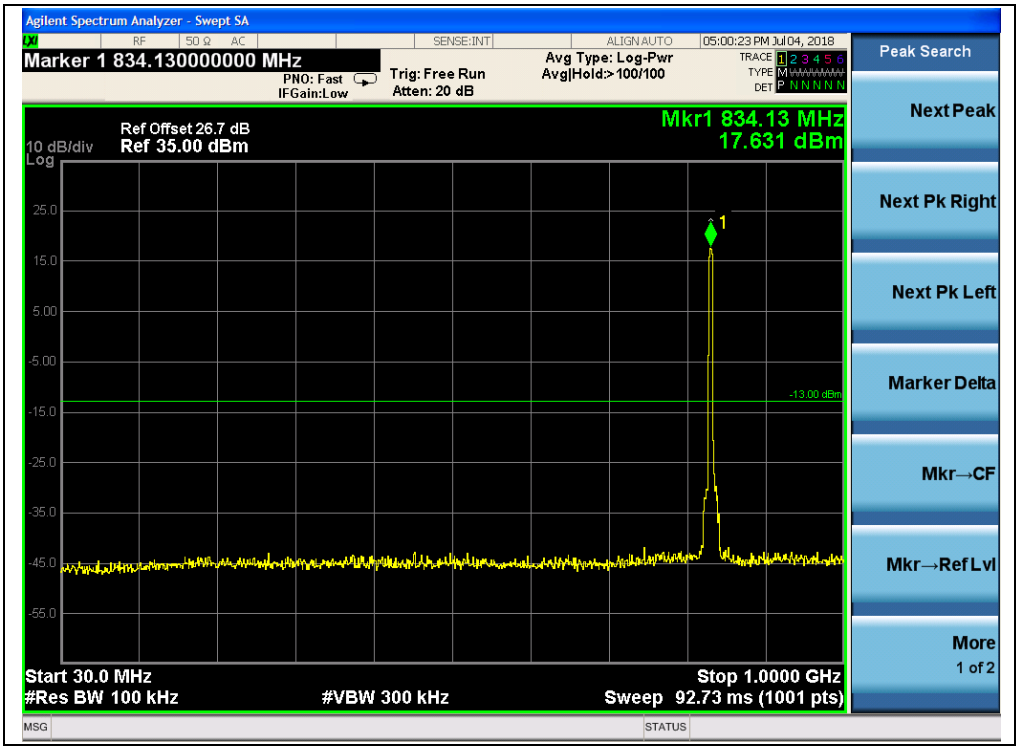


(Plot I3.1, WCDMA1900MHz, Channel = 9538 1GHz to 20GHz)



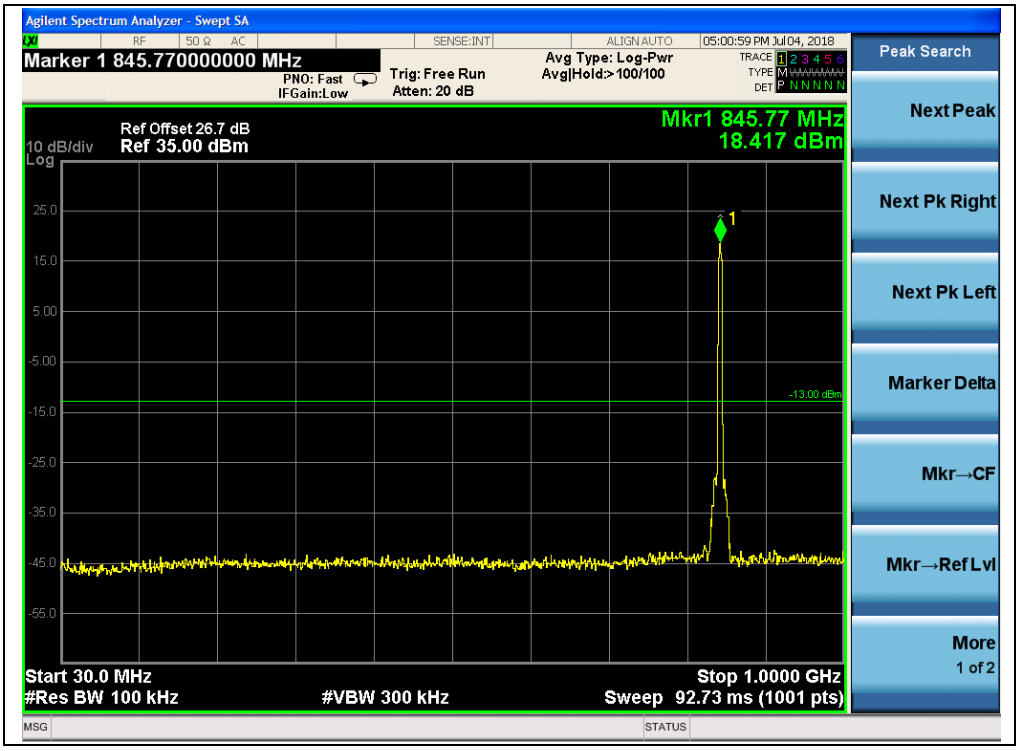
(Plot J1, HSDPA 850MHz, Channel = 4132, 30MHz to 1GHz)

(Plot J1.1, HSDPA 850MHz, Channel = 4132, 1GHz to 9GHz)



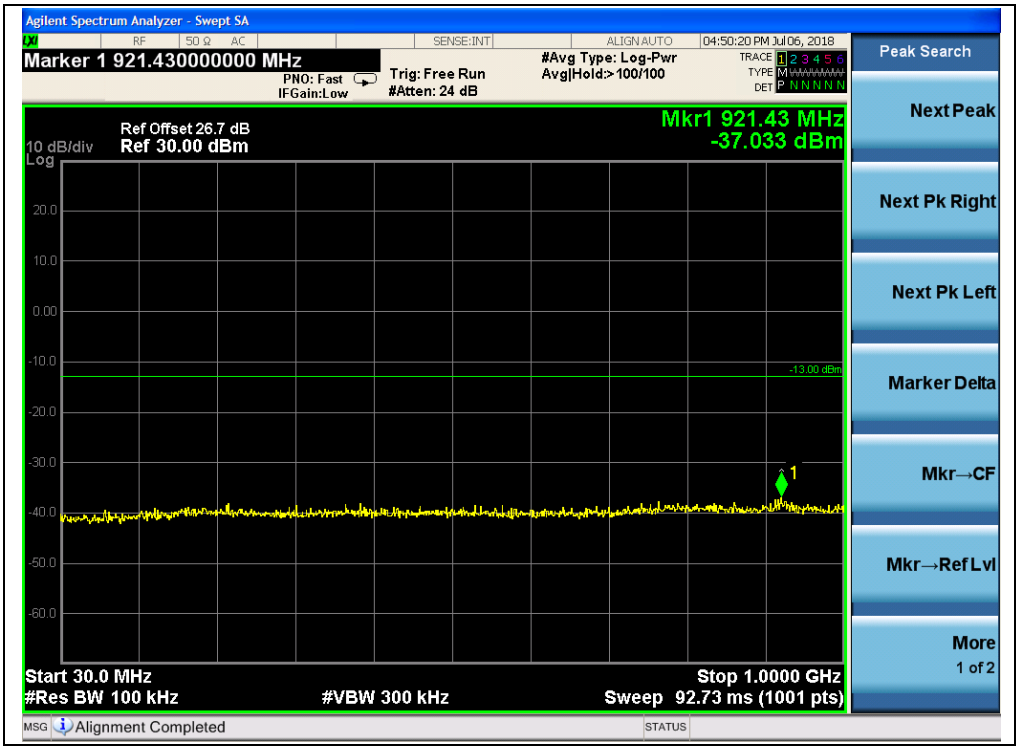
(Plot J2, HSDPA 850MHz, Channel = 4175, 30MHz to 1GHz)

(Plot J2.1, HSDPA 850MHz, Channel = 4175, 1GHz to 9GHz)

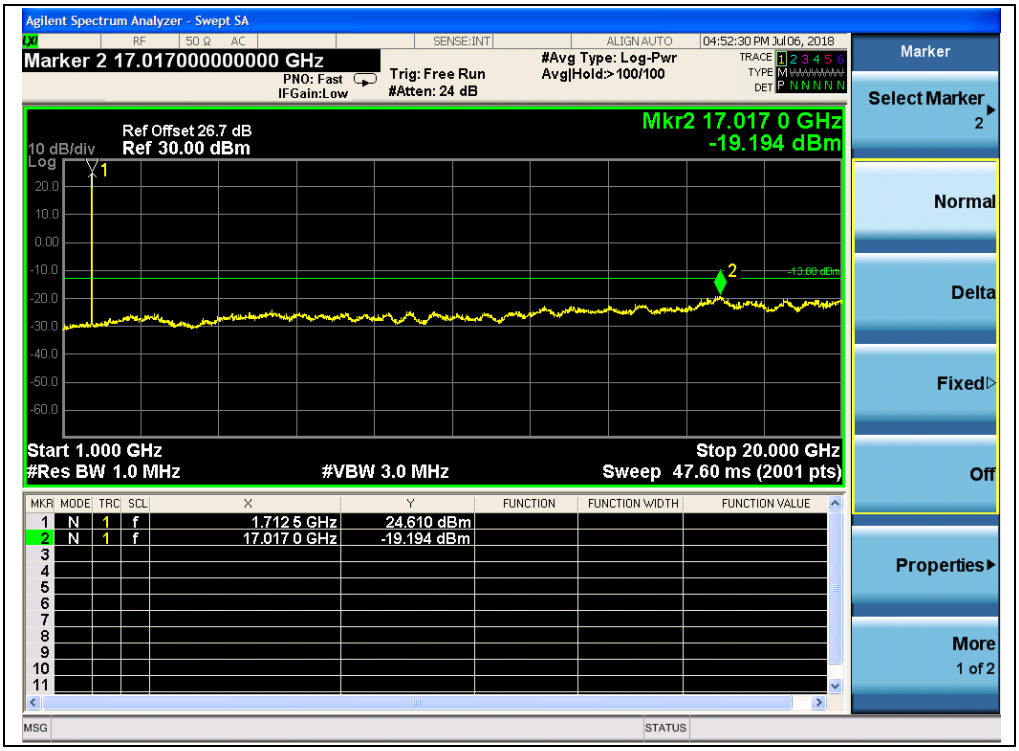


(Plot J3, HSDPA 850MHz, Channel = 4233, 30MHz to 1GHz)

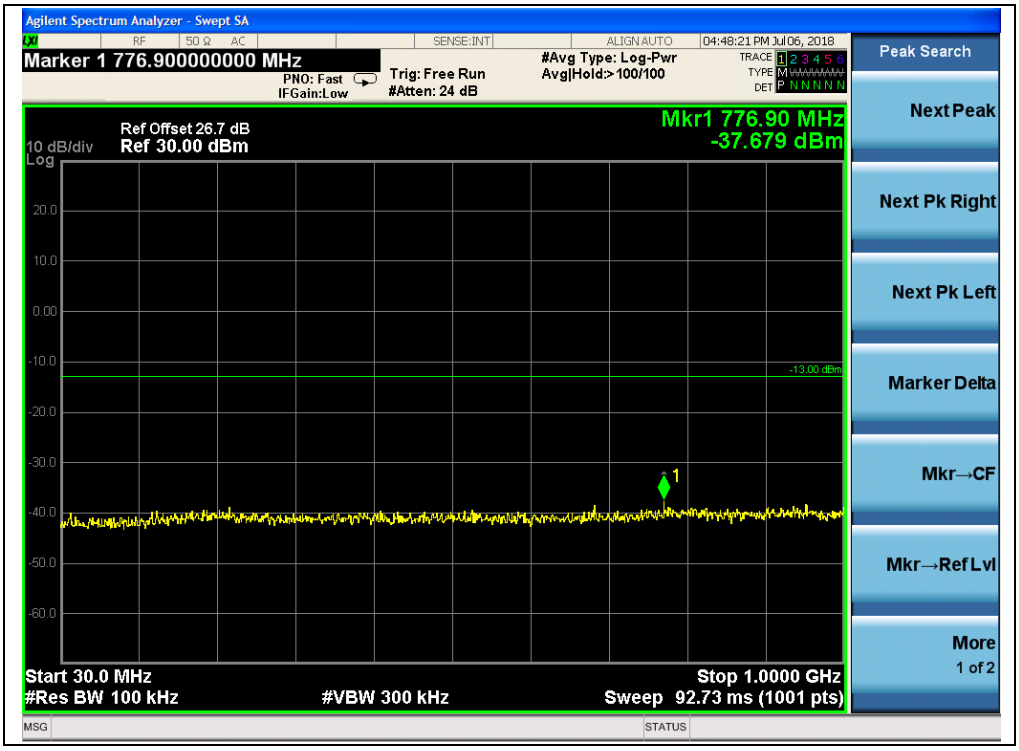
(Plot J3.1, HSDPA 850MHz, Channel = 4233, 1GHz to 9GHz)



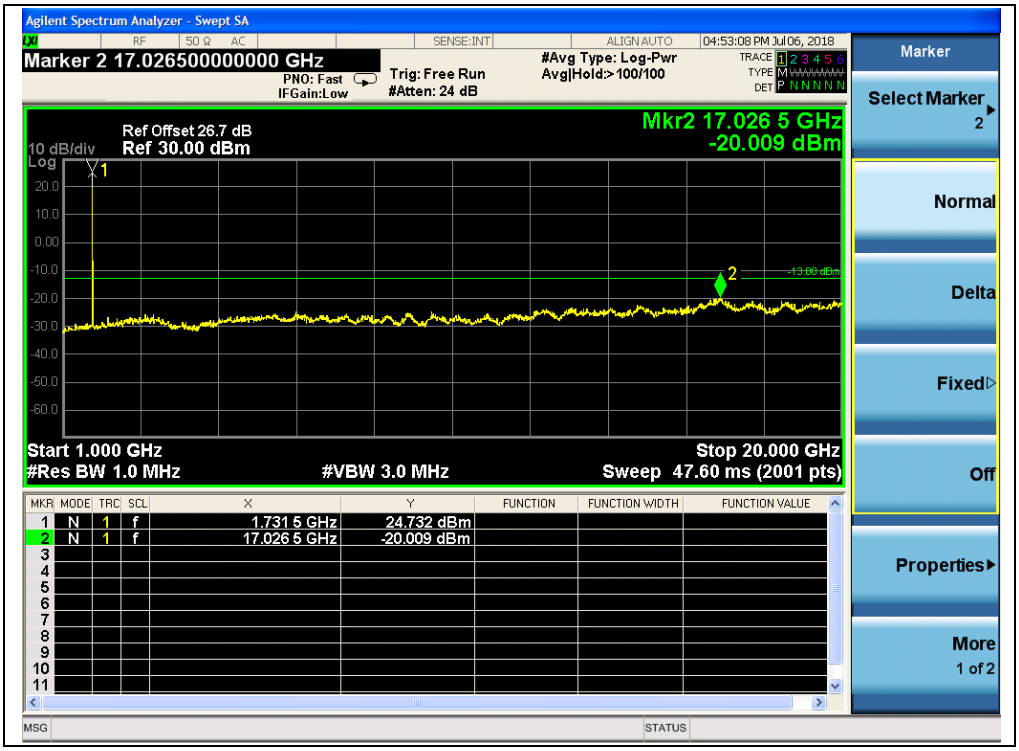
(Plot K1, HSDPA 1700MHz, Channel = 1312, 30MHz to 1GHz)



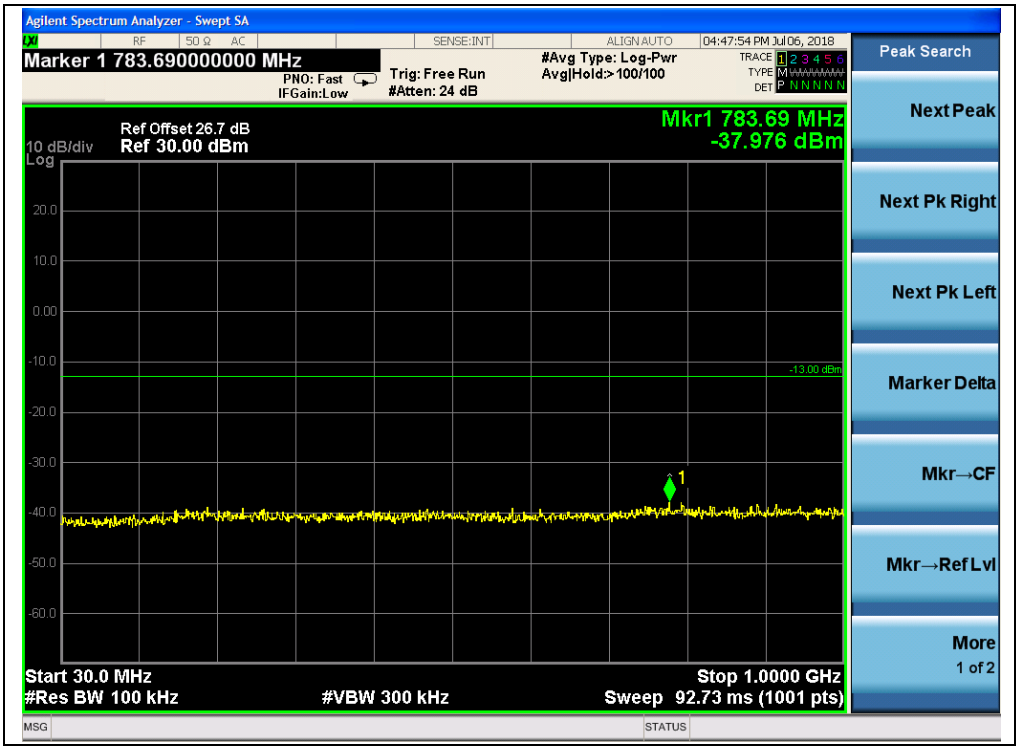
(Plot K1.1, HSDPA 1700MHz, Channel = 1312, 1GHz to 20GHz)



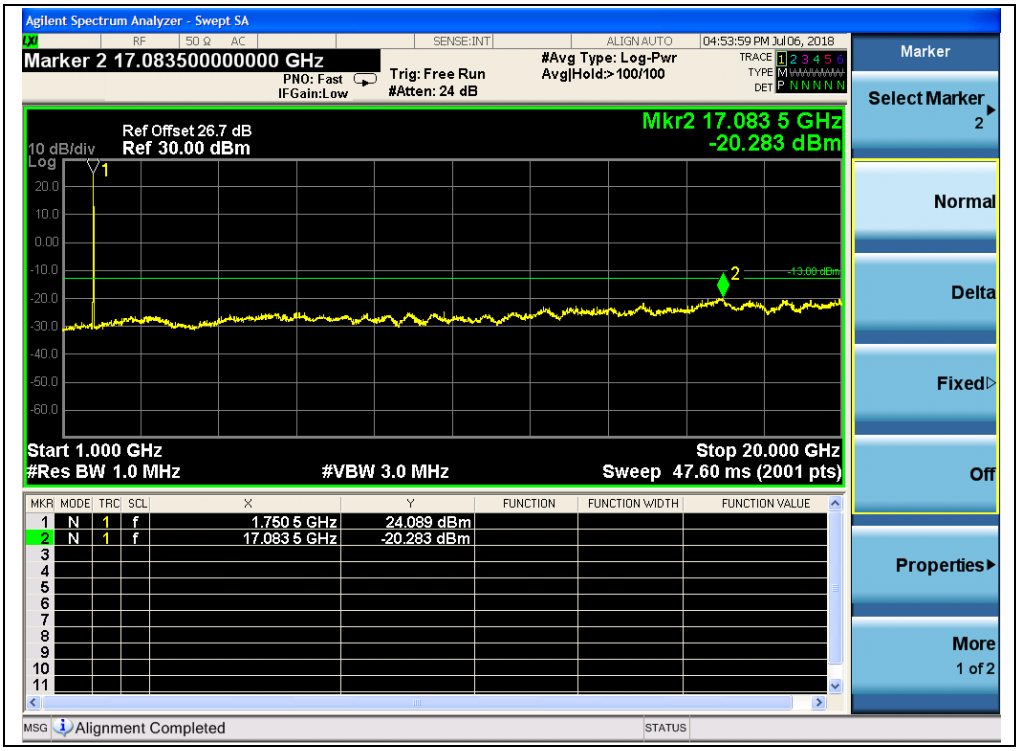
(Plot K2, HSDPA 1700MHz, Channel = 1412, 30MHz to 1GHz)



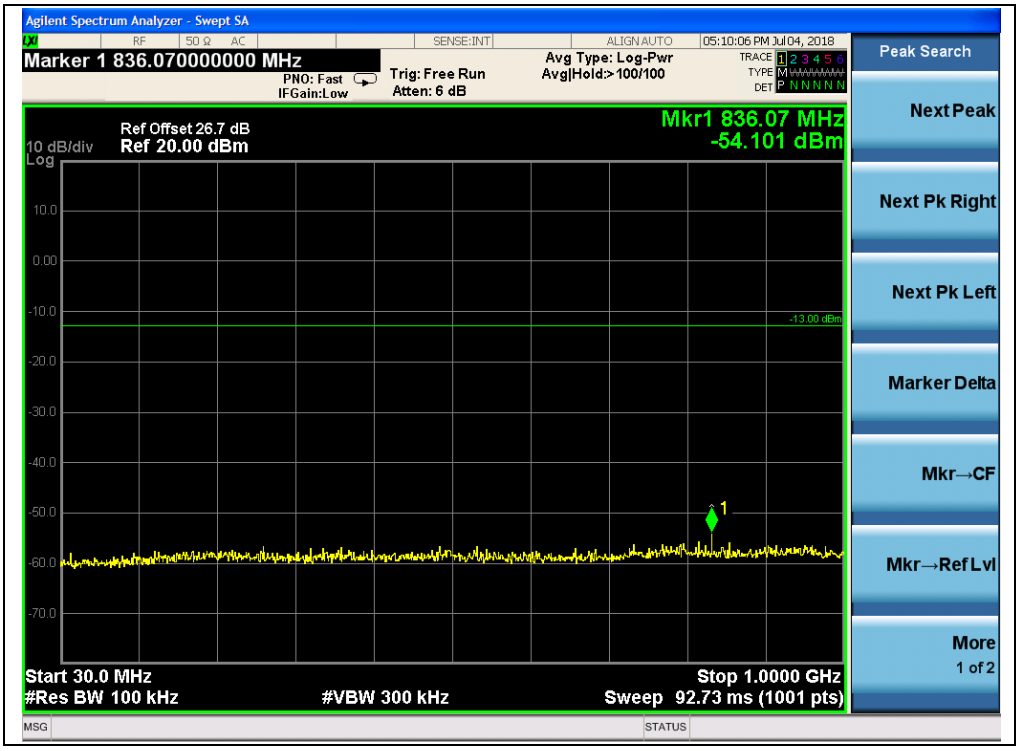
(Plot K2.1, HSDPA1700MHz, Channel = 1412, 1GHz to 20GHz)



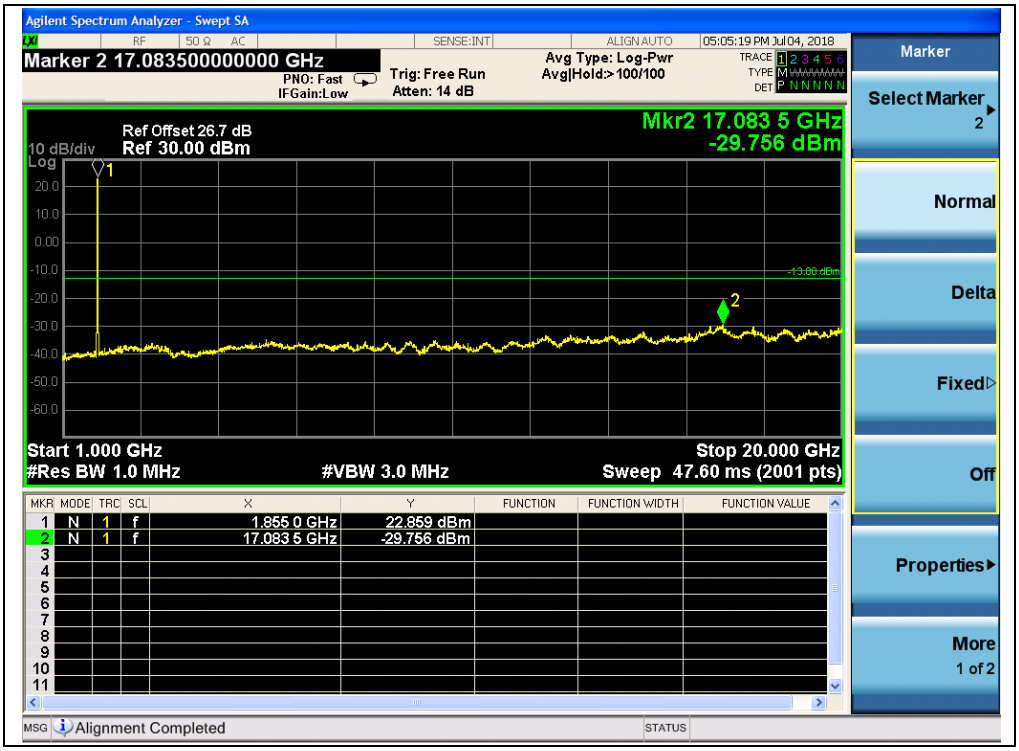
(Plot K3, HSDPA1700MHz, Channel = 1513, 30MHz to 1GHz)



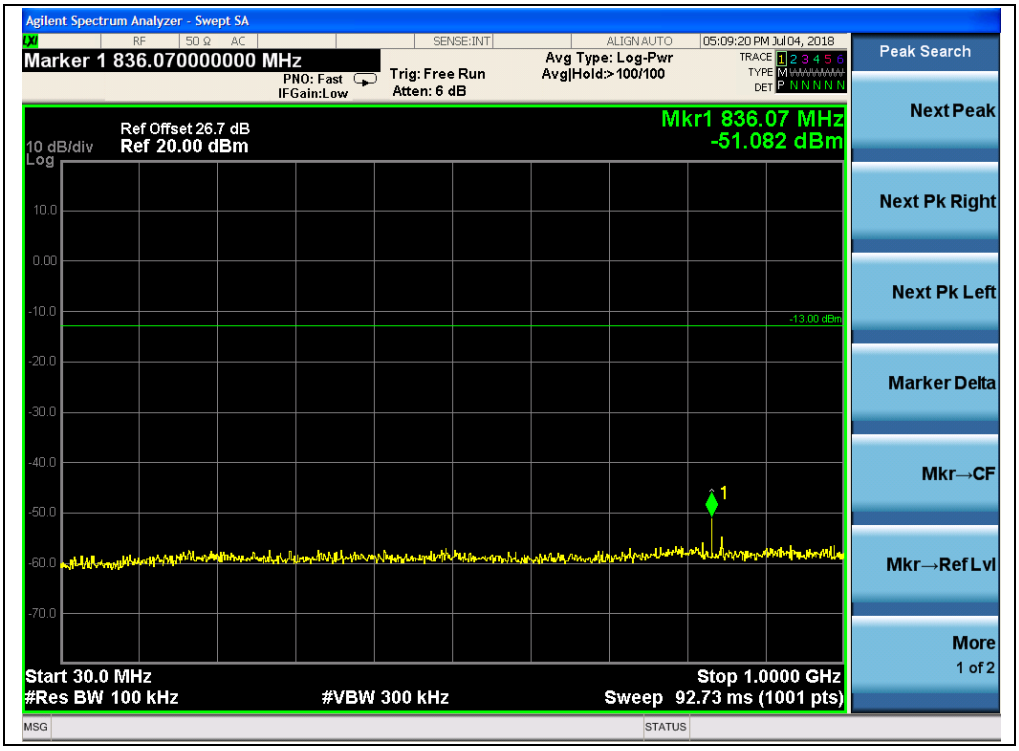
(Plot K3.1, HSDPA1700MHz, Channel = 1513 1GHz to 20GHz)



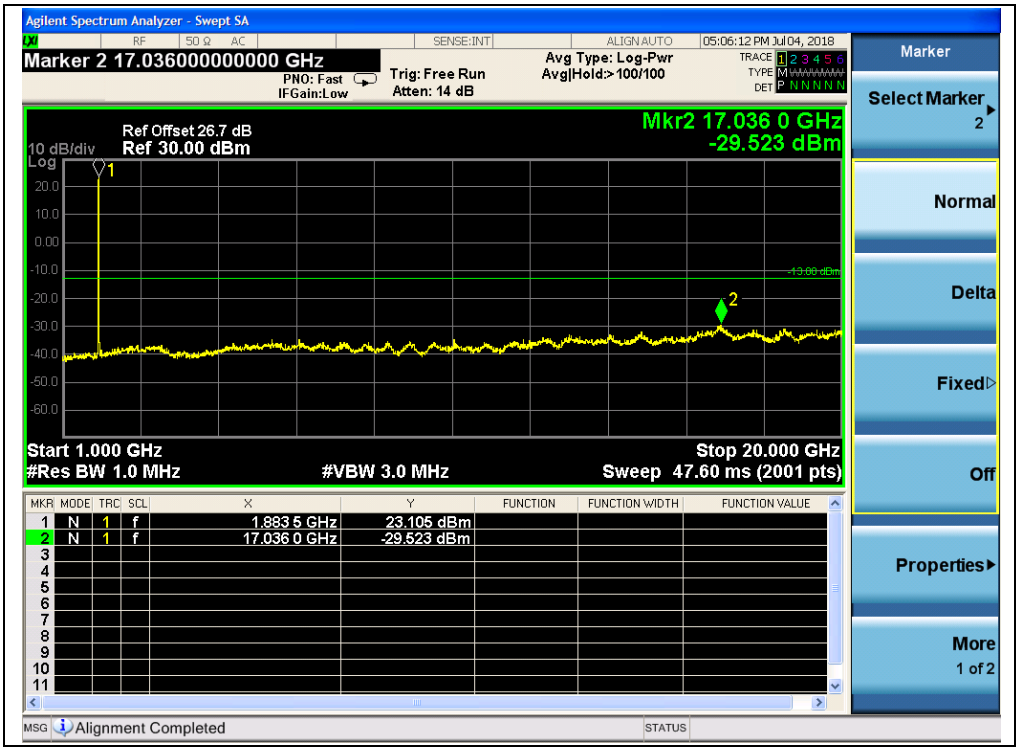
(Plot L1, HSDPA 1900MHz, Channel = 9262, 30MHz to 1GHz)



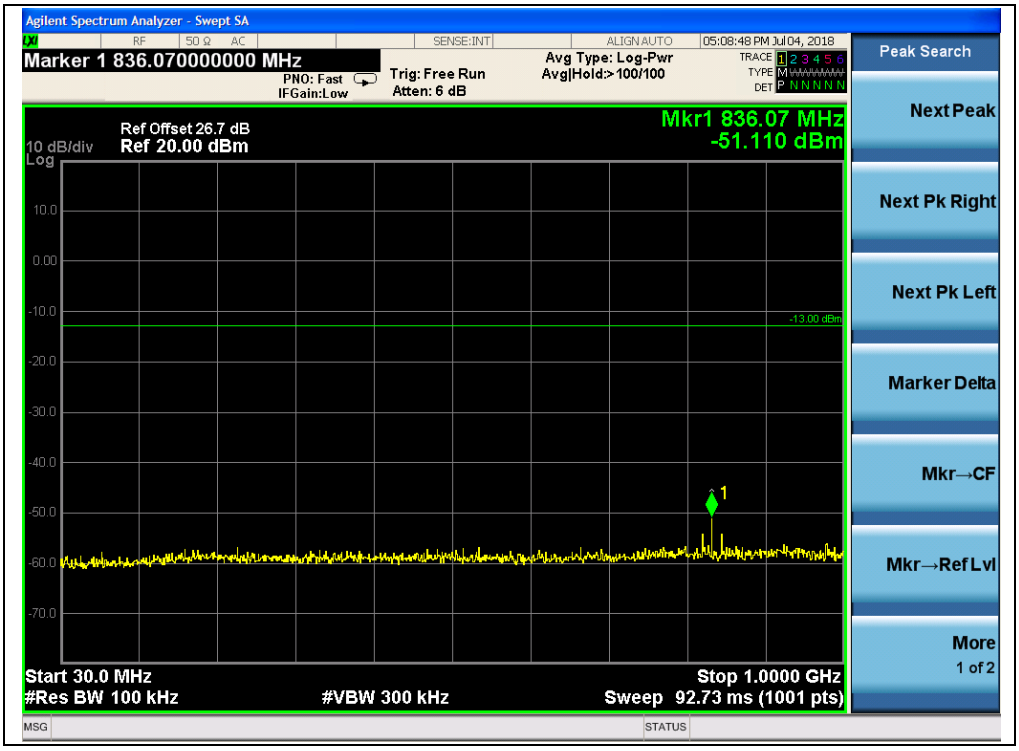
(Plot L1.1, HSDPA 1900MHz, Channel = 9262, 1GHz to 20GHz)



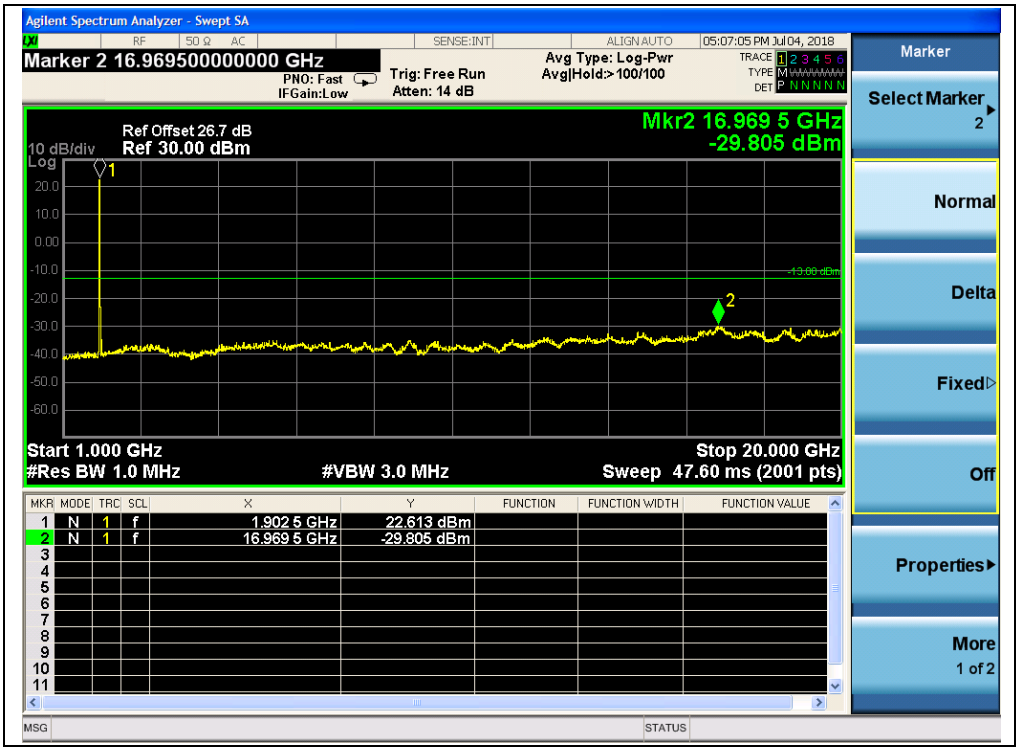
(Plot L2, HSDPA 1900MHz, Channel = 9400, 30MHz to 1GHz)



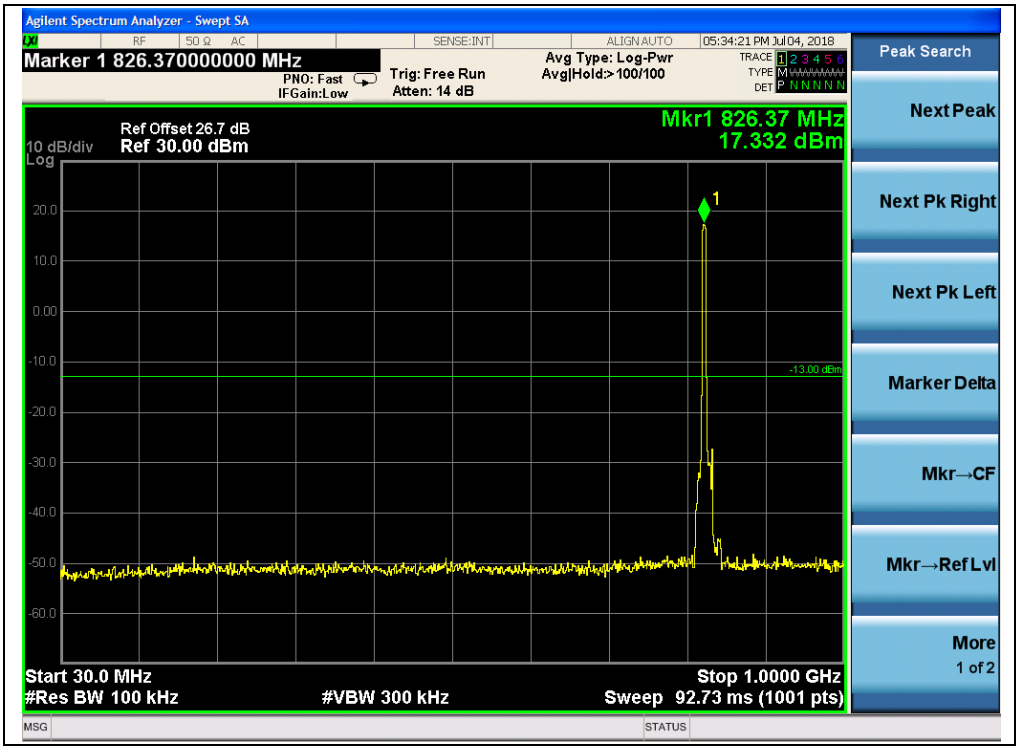
(Plot L2.1, HSDPA1900MHz, Channel = 9400, 1GHz to 20GHz)



(Plot L3, HSDPA1900MHz, Channel = 9538, 30MHz to 1GHz)

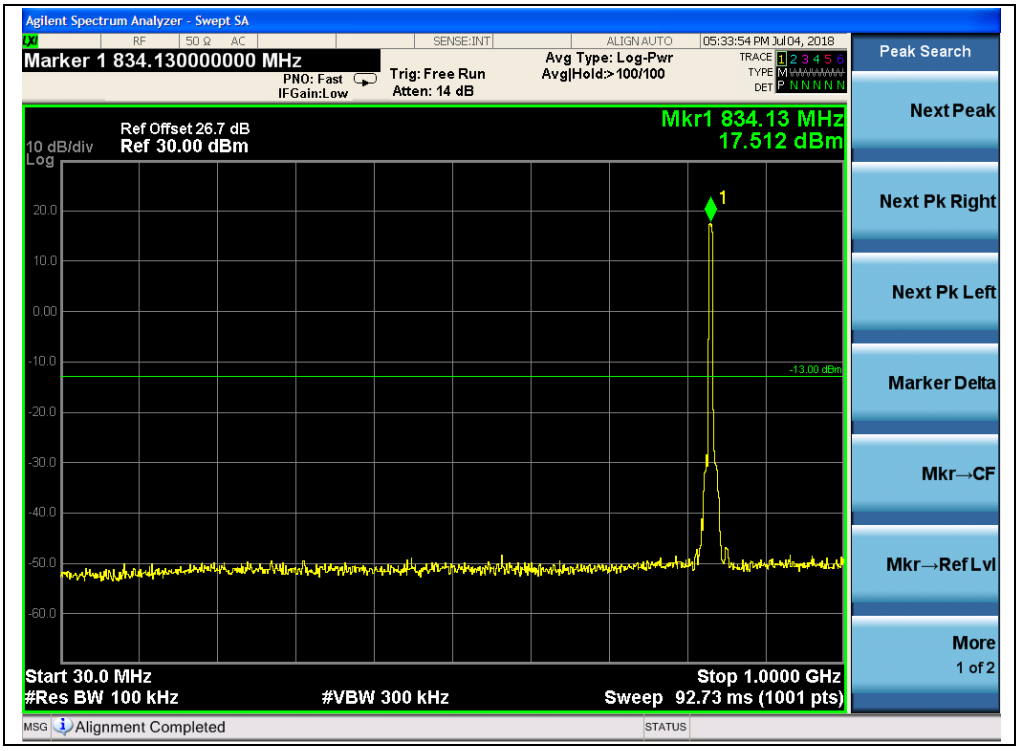


(Plot L3.1, HSDPA1900MHz, Channel = 9538 1GHz to 20GHz)



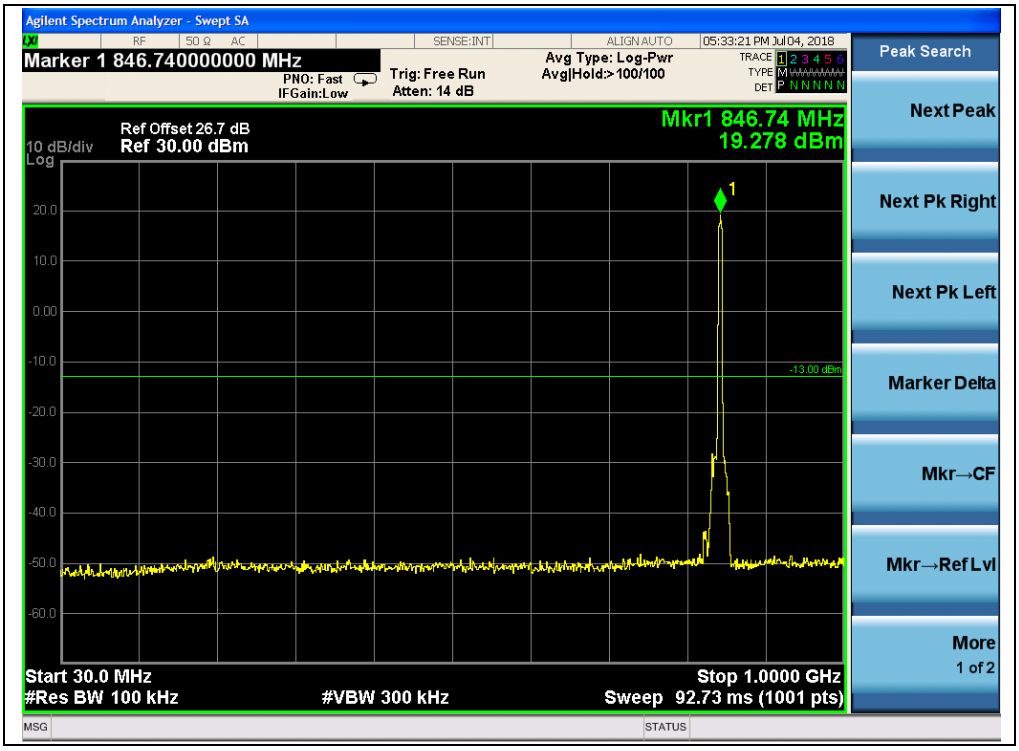
(Plot M1, HSUPA 850MHz, Channel = 4132, 30MHz to 1GHz)

(Plot M1.1, HSUPA 850MHz, Channel = 4132, 1GHz to 9GHz)

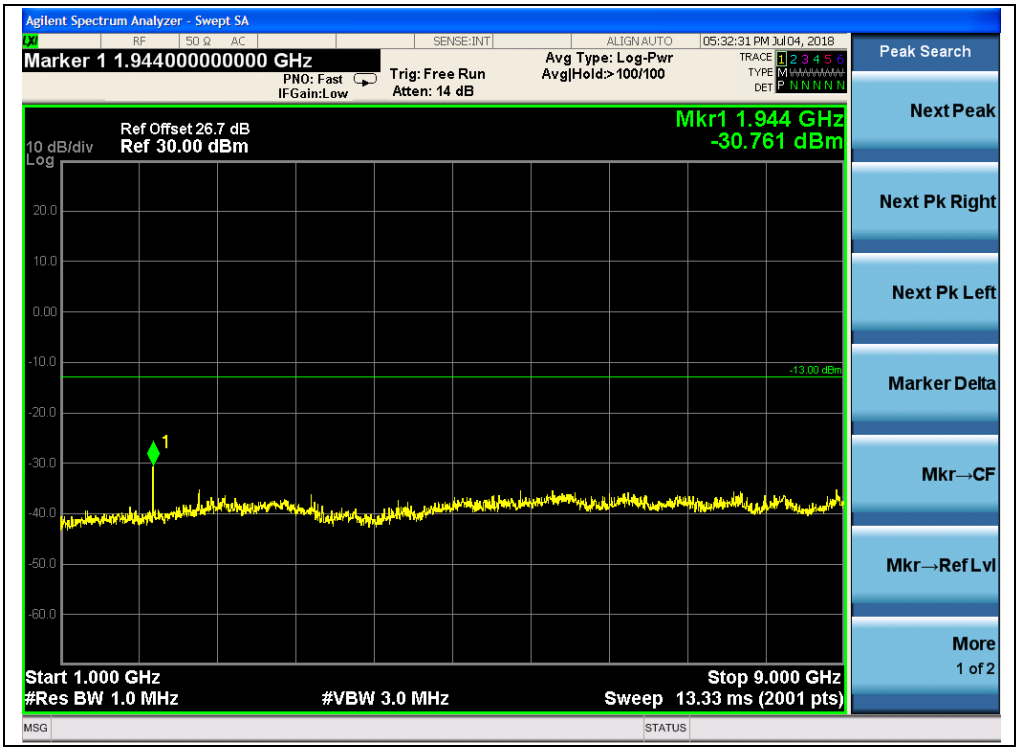


(Plot M2, HSUPA 850MHz, Channel = 4175, 30MHz to 1GHz)

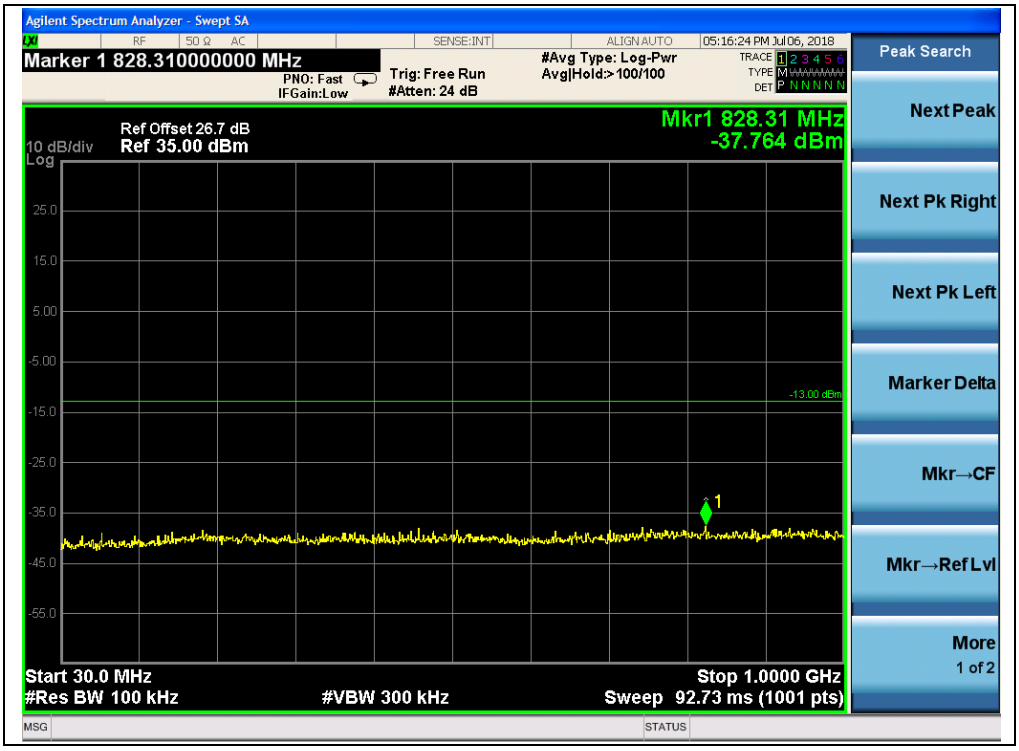
(Plot M2.1, HSUPA 850MHz, Channel = 4175, 1GHz to 9GHz)



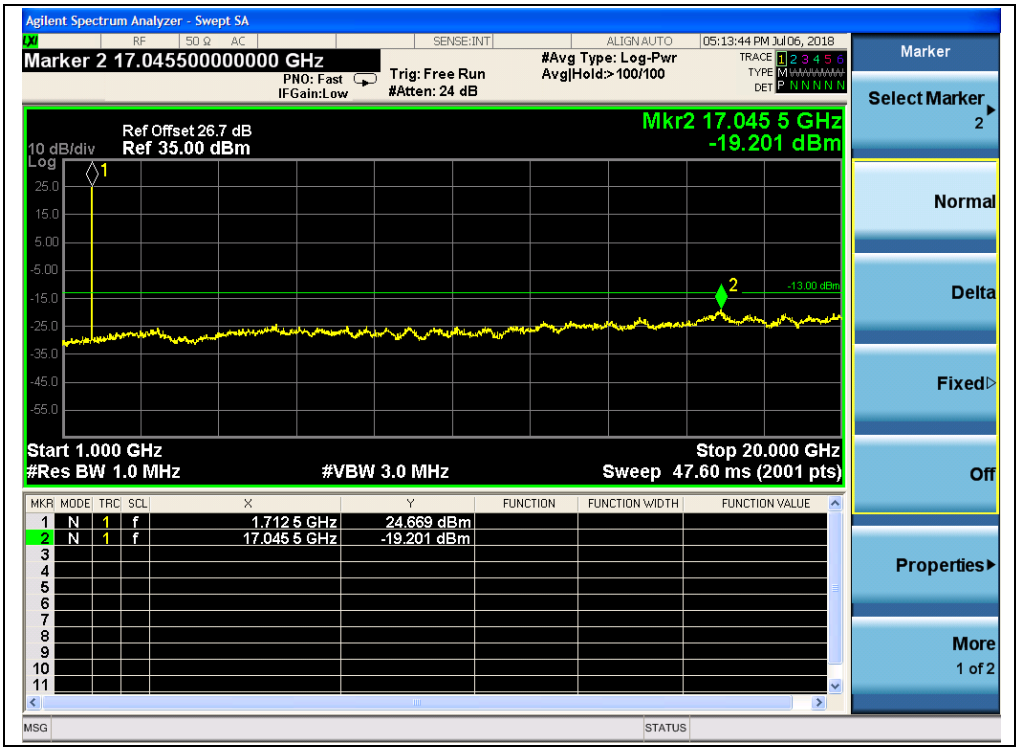
(Plot M3, HSUPA 850MHz, Channel = 4233, 30MHz to 1GHz)



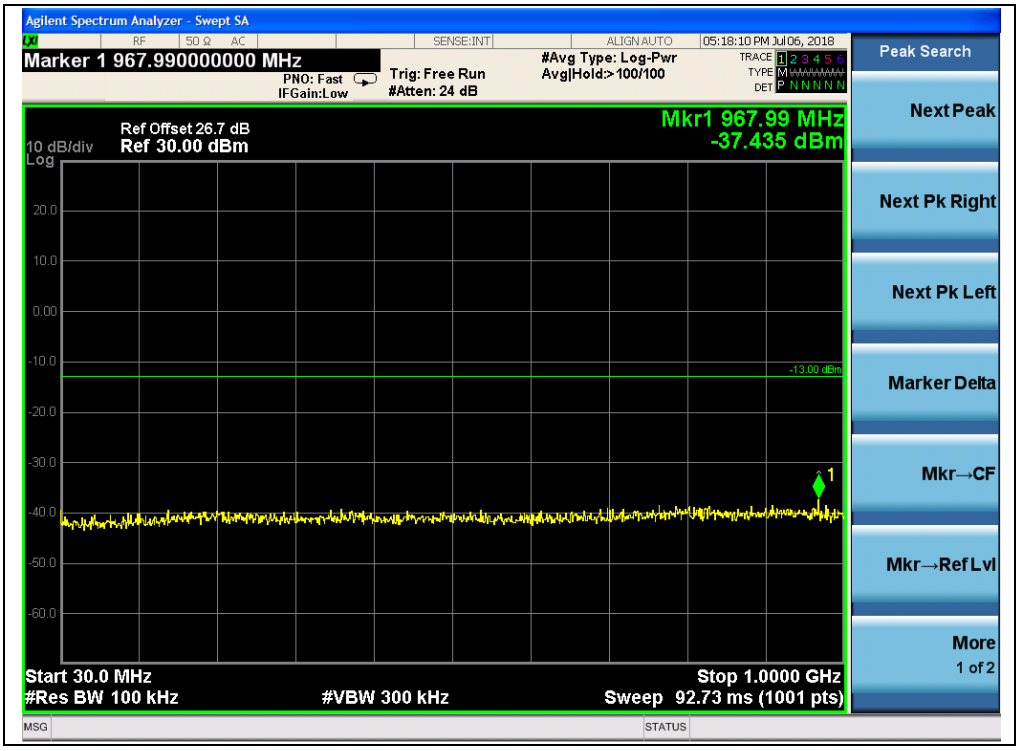
(Plot M3.1, HSUPA 850MHz, Channel = 4233, 1GHz to 9GHz)



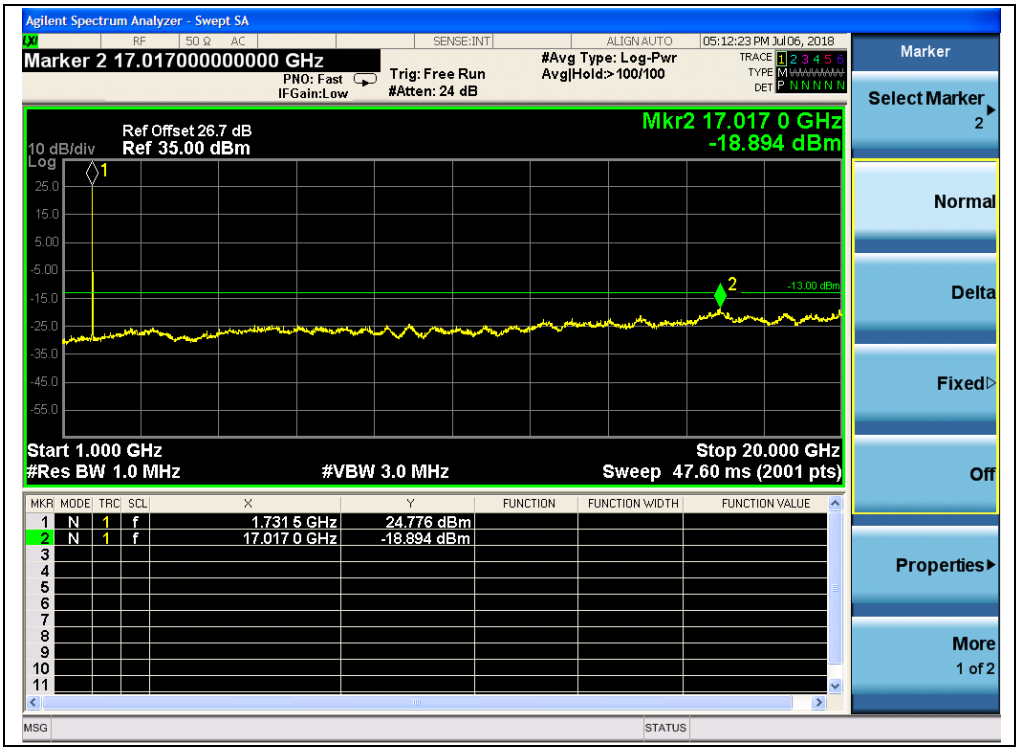
(Plot N1, HSUPA 1700MHz, Channel = 1312, 30MHz to 1GHz)



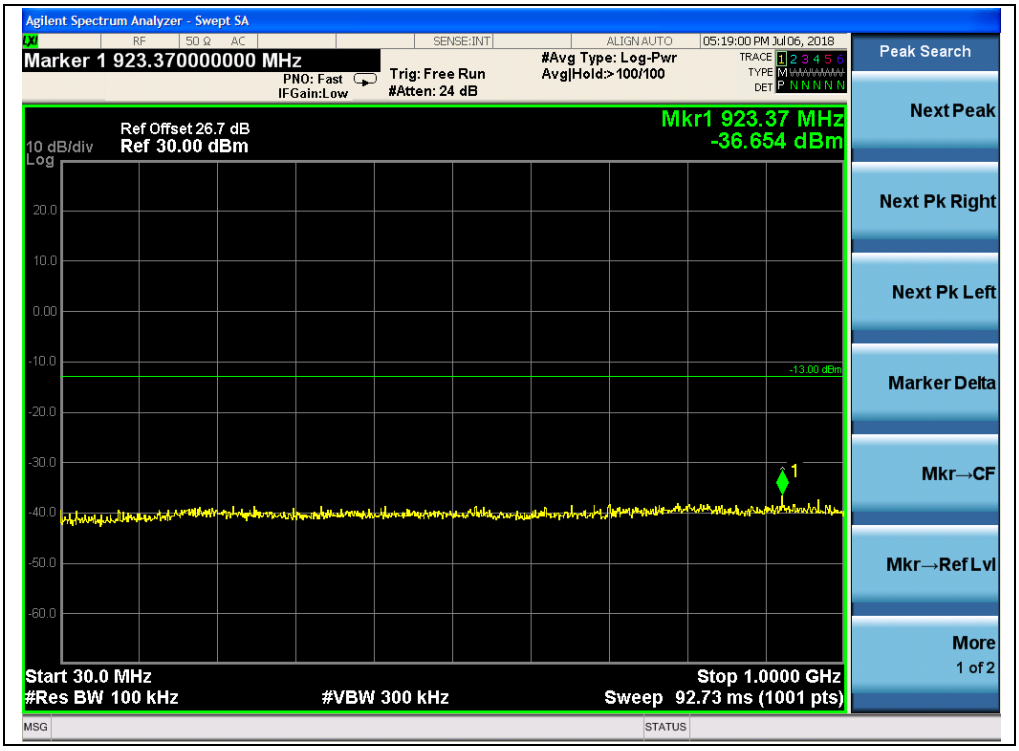
(Plot N1.1, HSUPA 1700MHz, Channel = 1312, 1GHz to 20GHz)



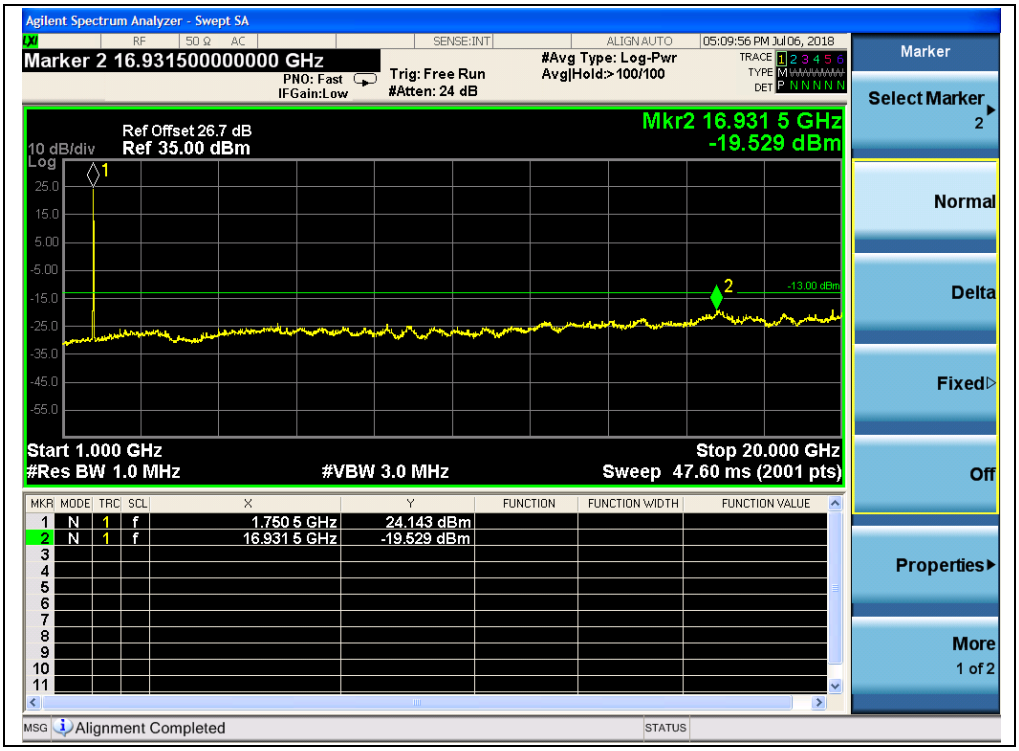
(Plot N2, HSUPA 1700MHz, Channel = 1412, 30MHz to 1GHz)



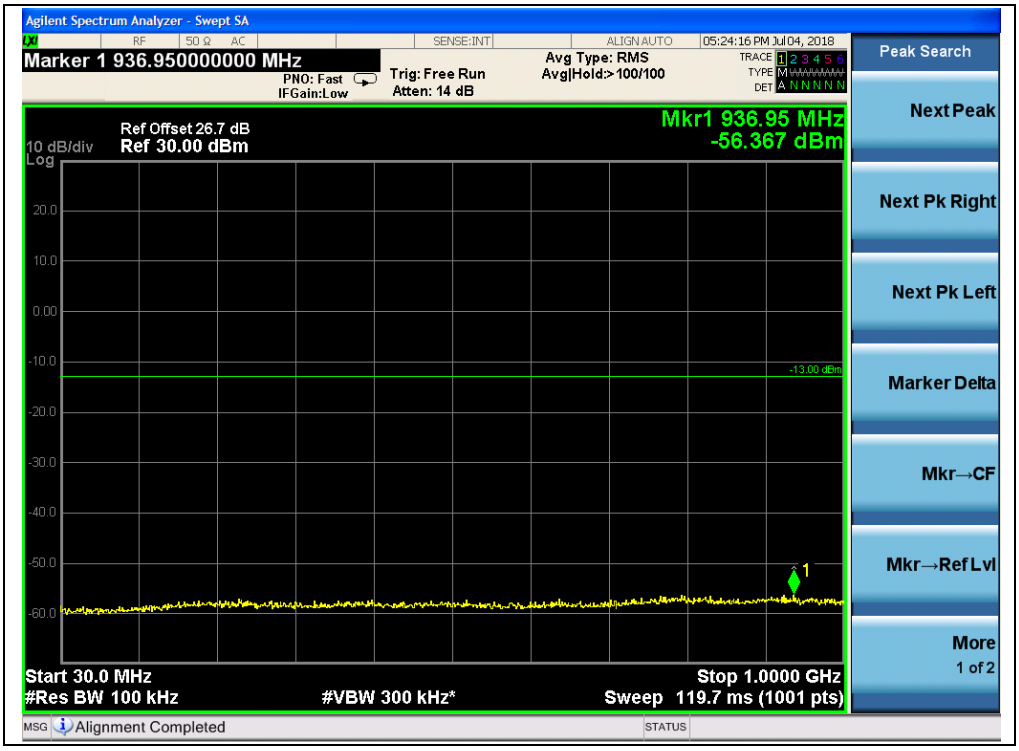
(Plot N2.1, HSUPA1700MHz, Channel = 1412, 1GHz to 20GHz)



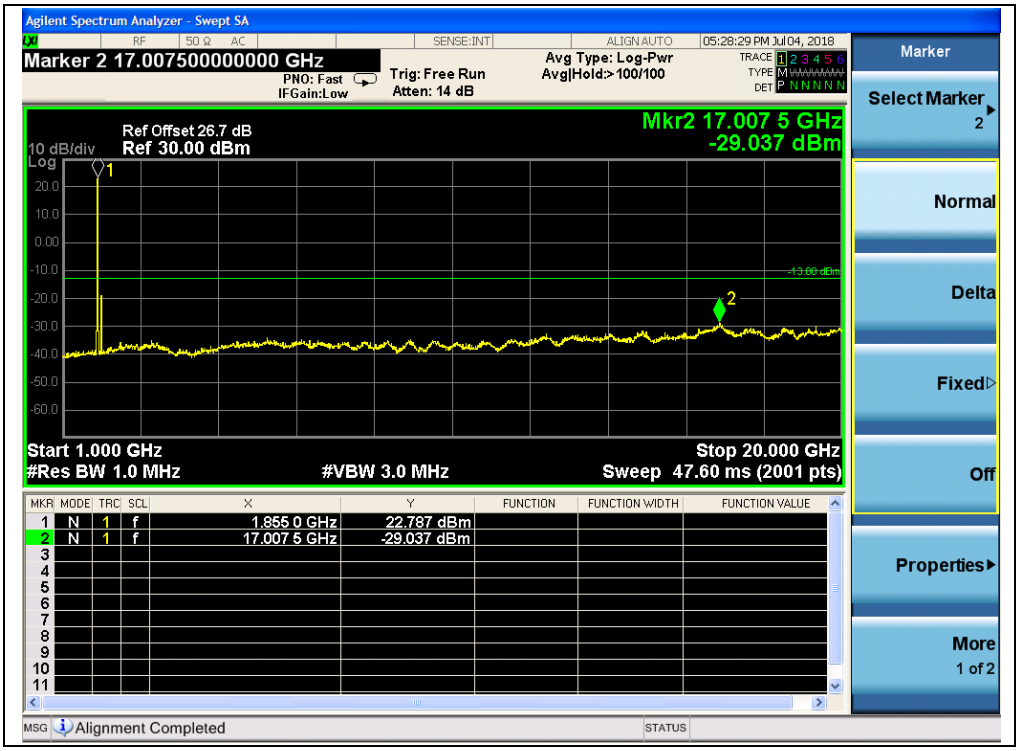
(Plot N3, HSUPA1700MHz, Channel = 1513, 30MHz to 1GHz)



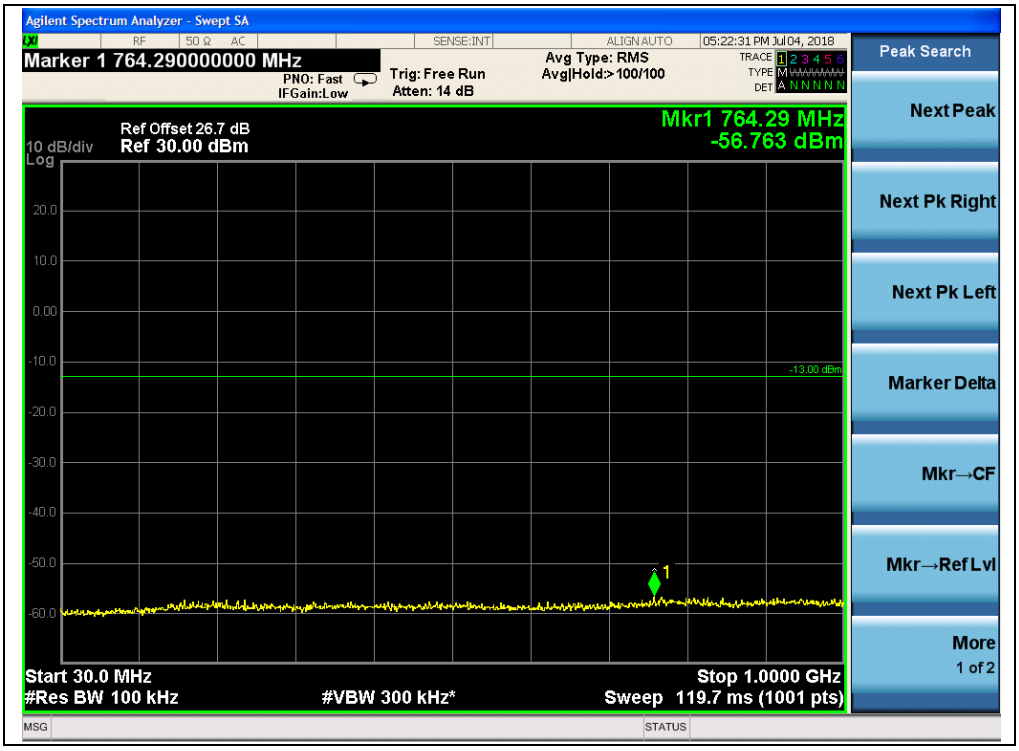
(Plot N3.1, HSUPA1700MHz, Channel = 1513, 1GHz to 20GHz)



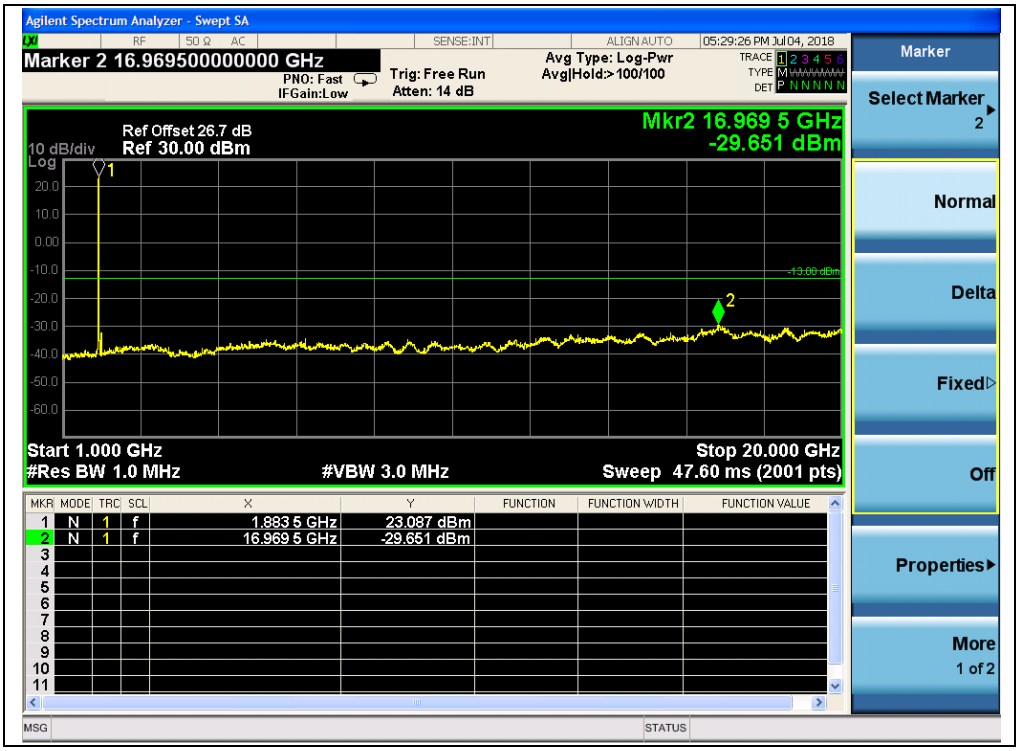
(Plot O1, HSUPA 1900MHz, Channel = 9262, 30MHz to 1GHz)



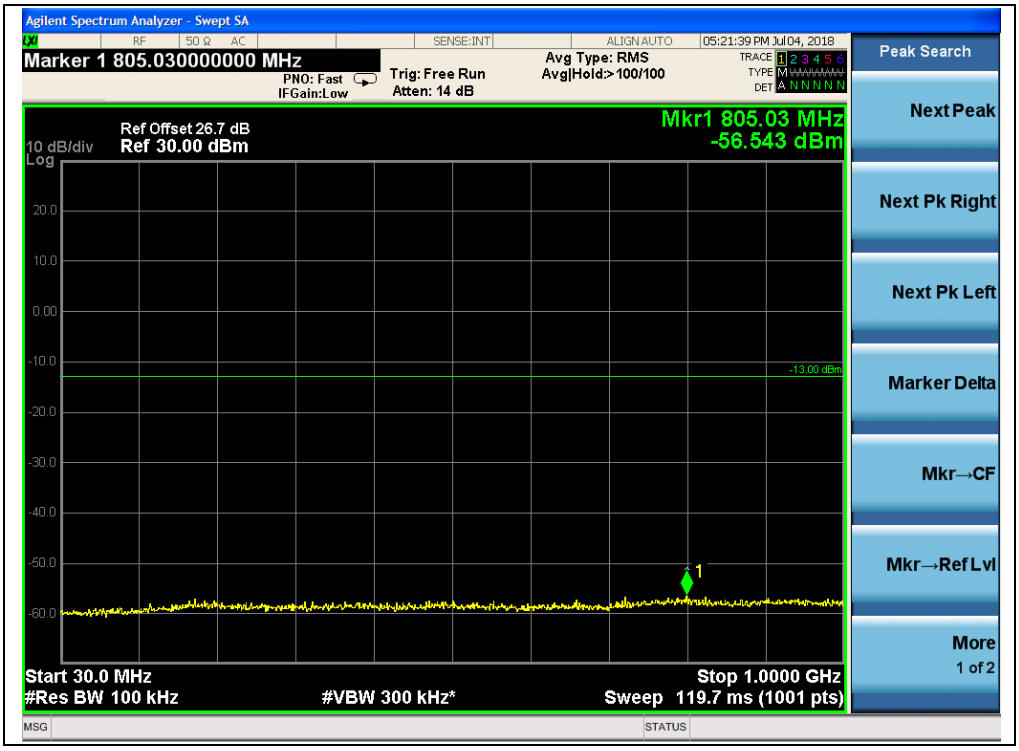
(Plot O1.1, HSUPA 1900MHz, Channel = 9262, 1GHz to 20GHz)



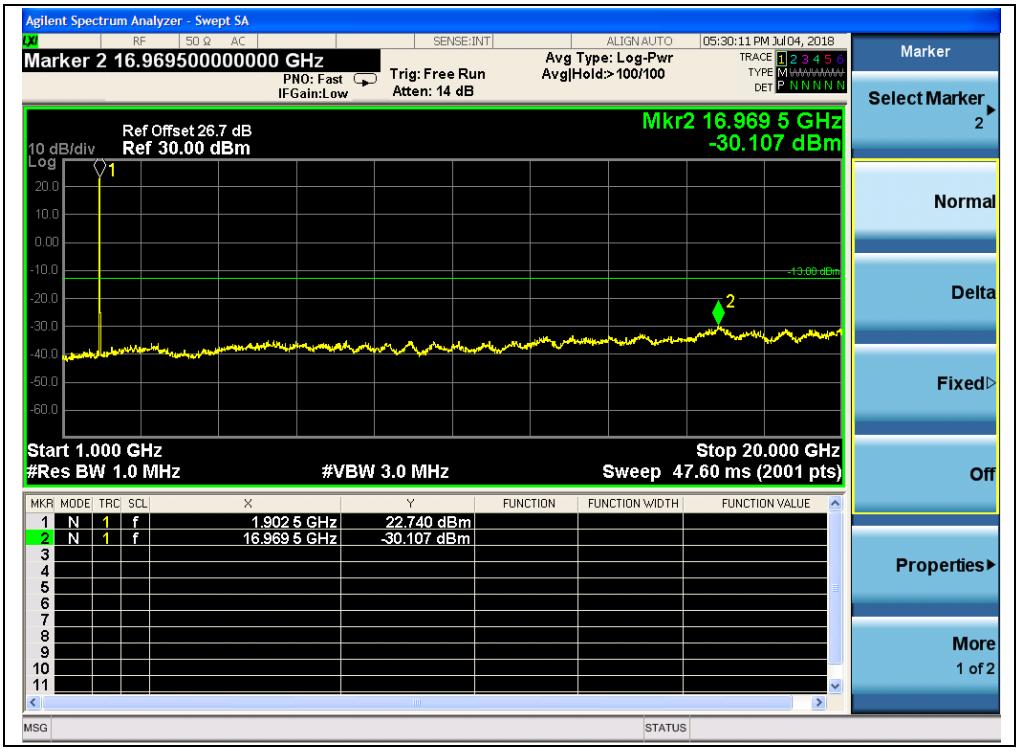
(Plot O2, HSUPA 1900MHz, Channel = 9400, 30MHz to 1GHz)



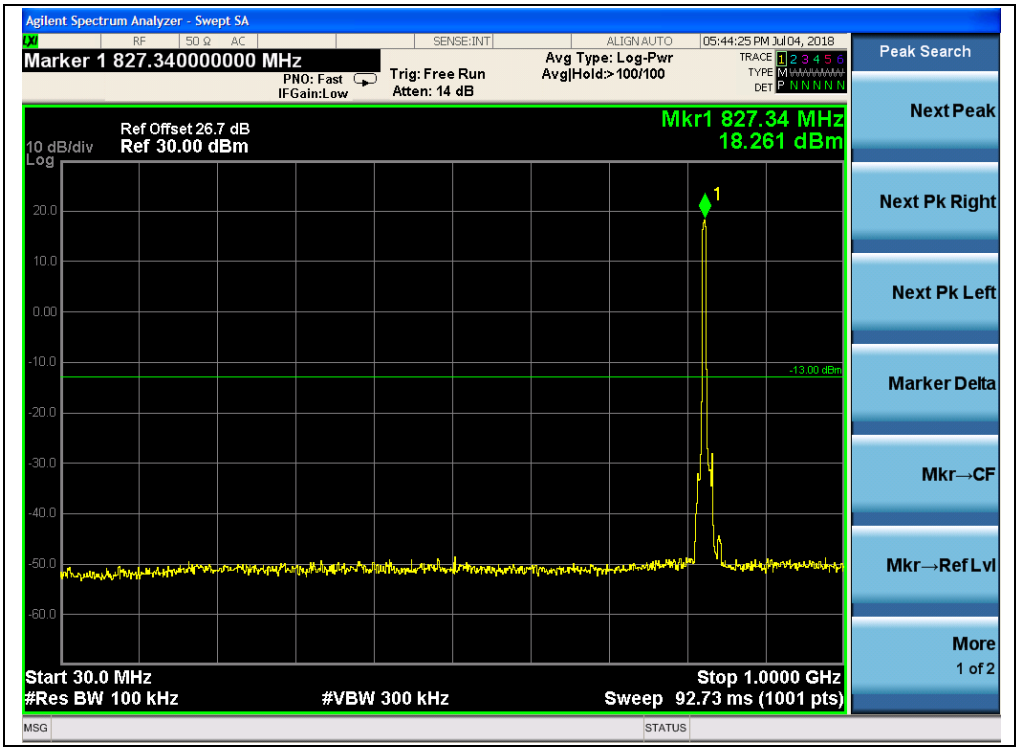
(Plot O2.1, HSUPA1900MHz, Channel = 9400, 1GHz to 20GHz)



(Plot O3, HSUPA1900MHz, Channel = 9538, 30MHz to 1GHz)

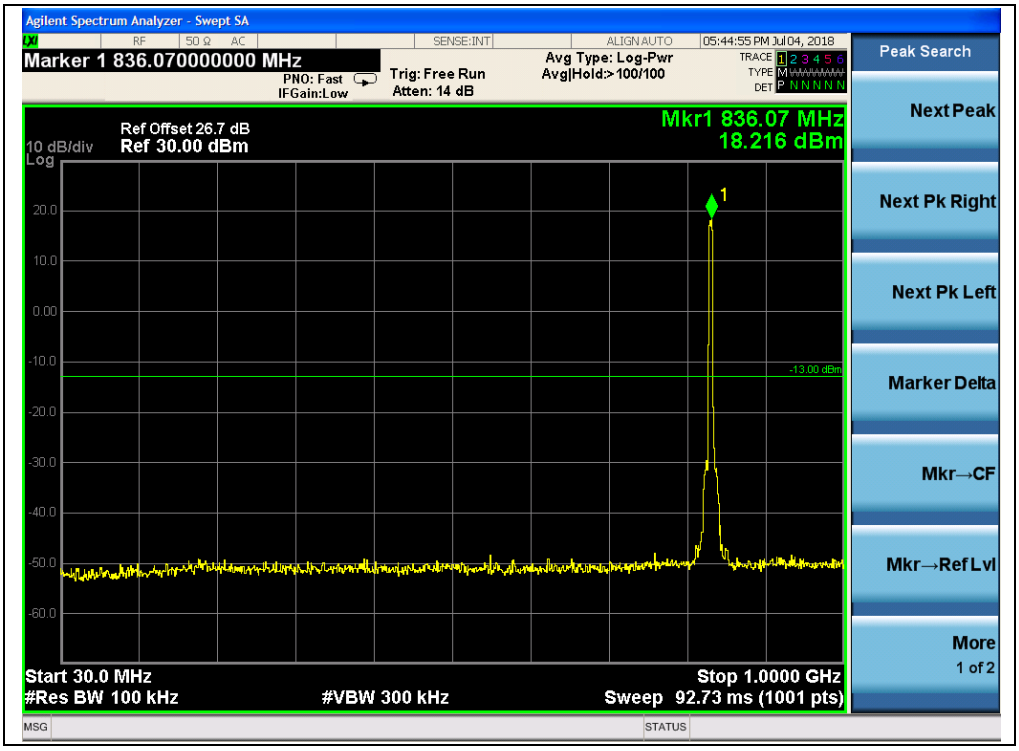


(Plot O3.1, HSUPA1900MHz, Channel = 9538 1GHz to 20GHz)



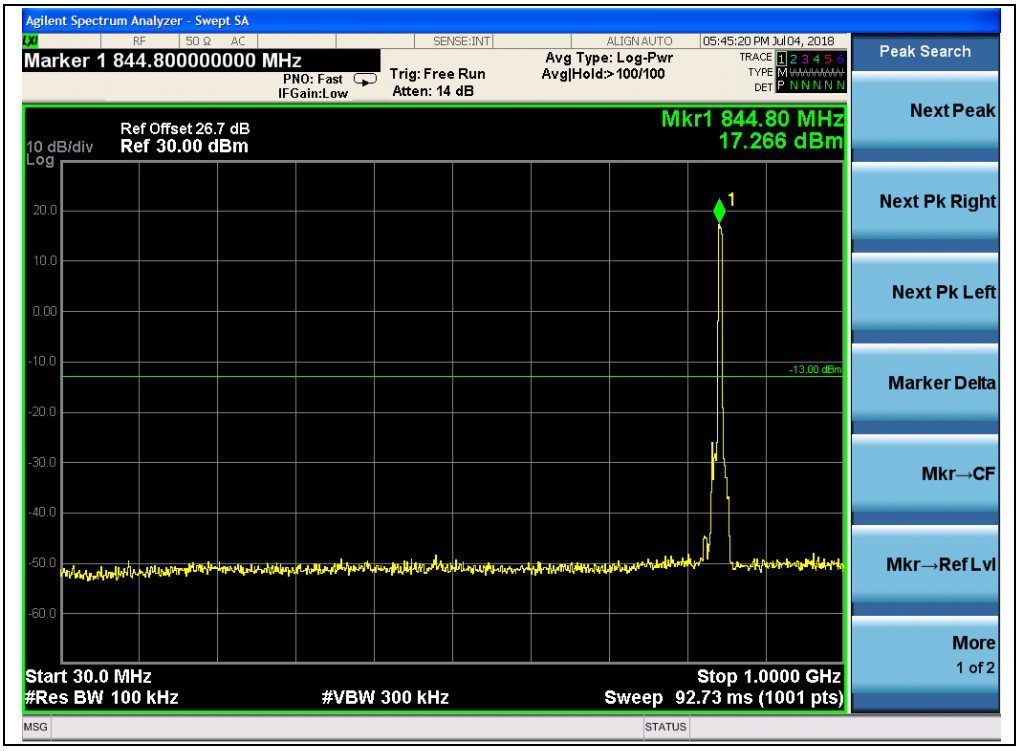
(Plot P1, HSPA+ 850MHz, Channel = 4132, 30MHz to 1GHz)

(Plot P1.1, HSPA+ 850MHz, Channel = 4132, 1GHz to 9GHz)



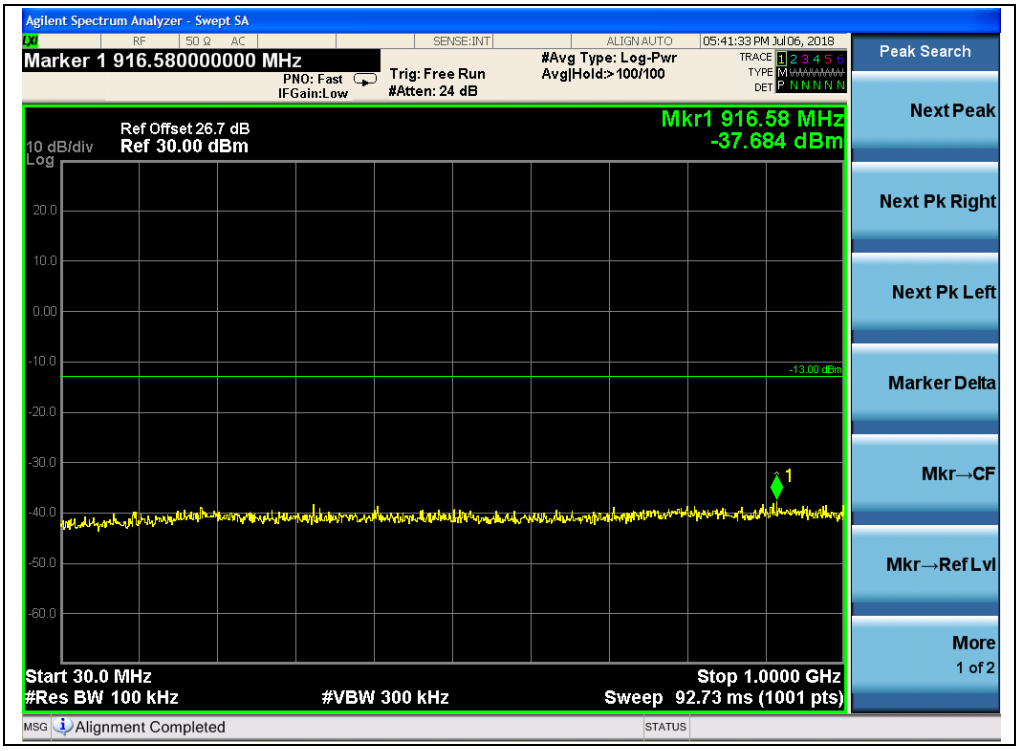
(Plot P2, HSPA+ 850MHz, Channel = 4175, 30MHz to 1GHz)

(Plot P2.1, HSPA+ 850MHz, Channel = 4175, 1GHz to 9GHz)

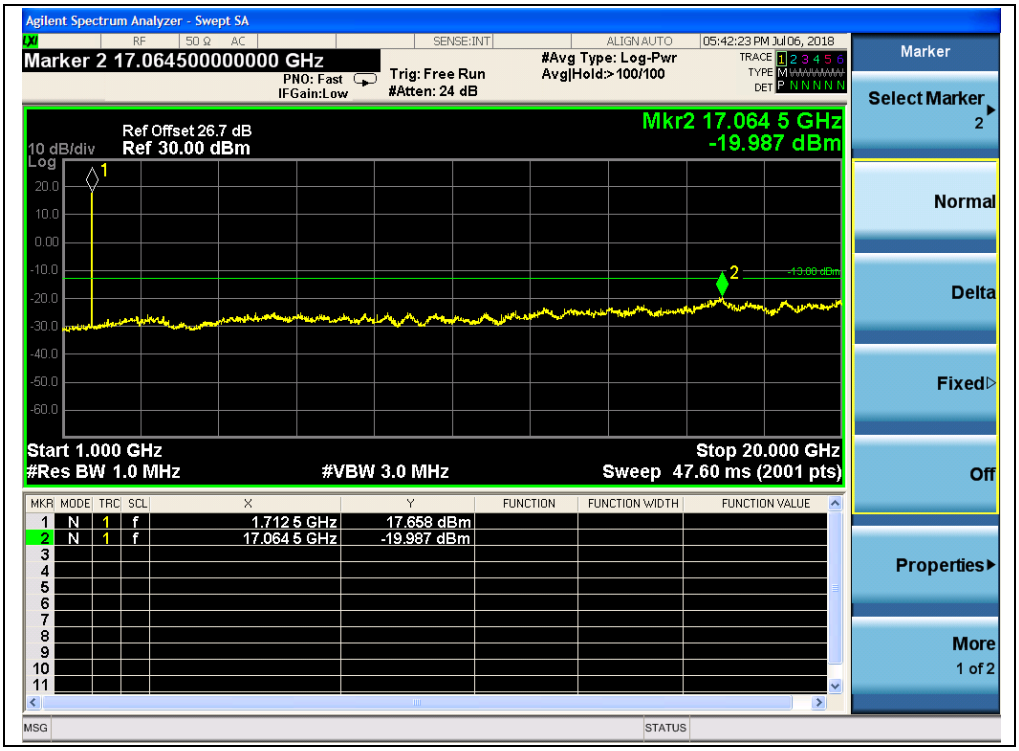


(Plot P3, HSPA+ 850MHz, Channel = 4233, 30MHz to 1GHz)

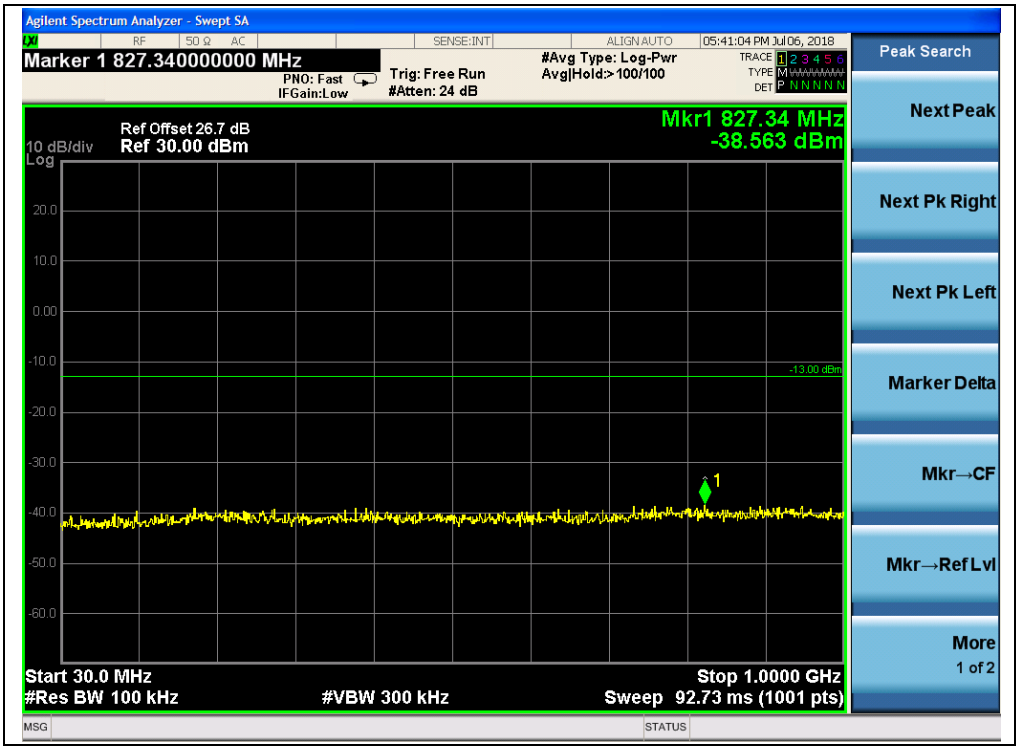
(Plot P3.1, HSPA+ 850MHz, Channel = 4233, 1GHz to 9GHz)



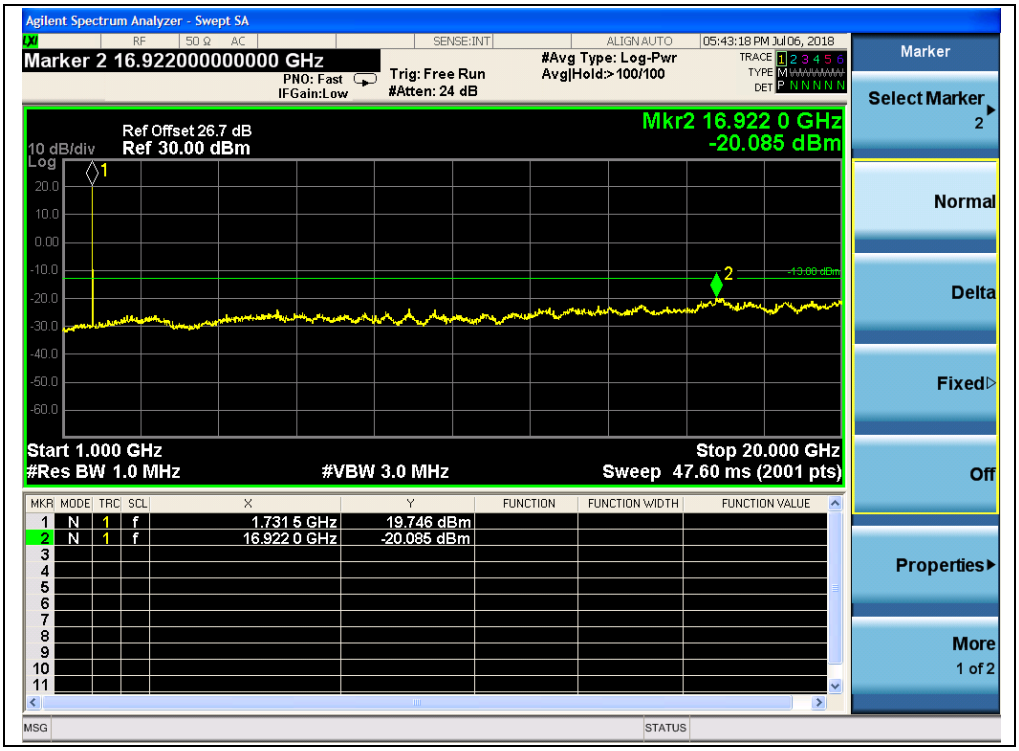
(Plot Q1, HSPA+1700MHz, Channel = 1312, 30MHz to 1GHz)



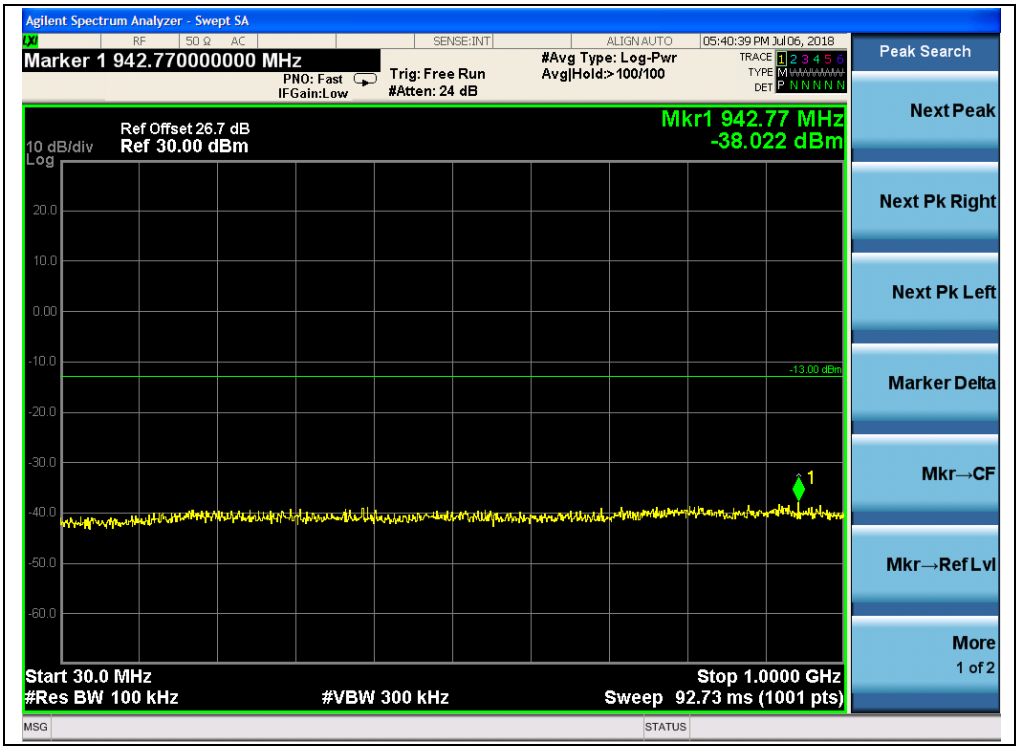
(Plot Q1.1, HSPA+ 1700MHz, Channel = 1312, 1GHz to 20GHz)



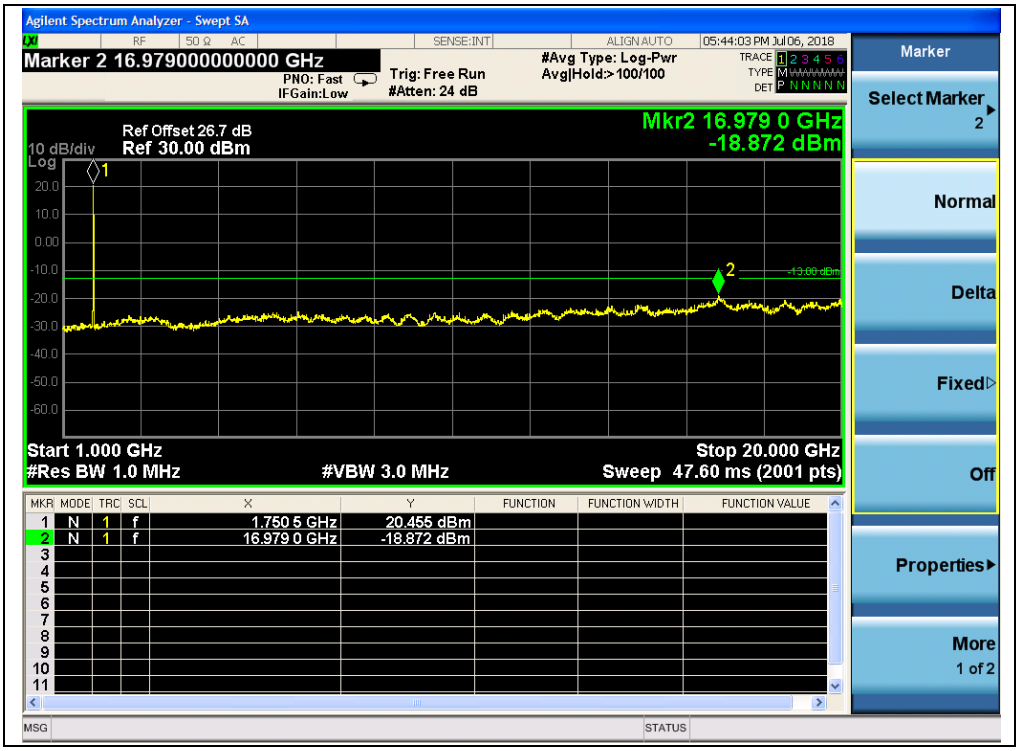
(Plot Q2, HSPA+ 1700MHz, Channel = 1412, 30MHz to 1GHz)



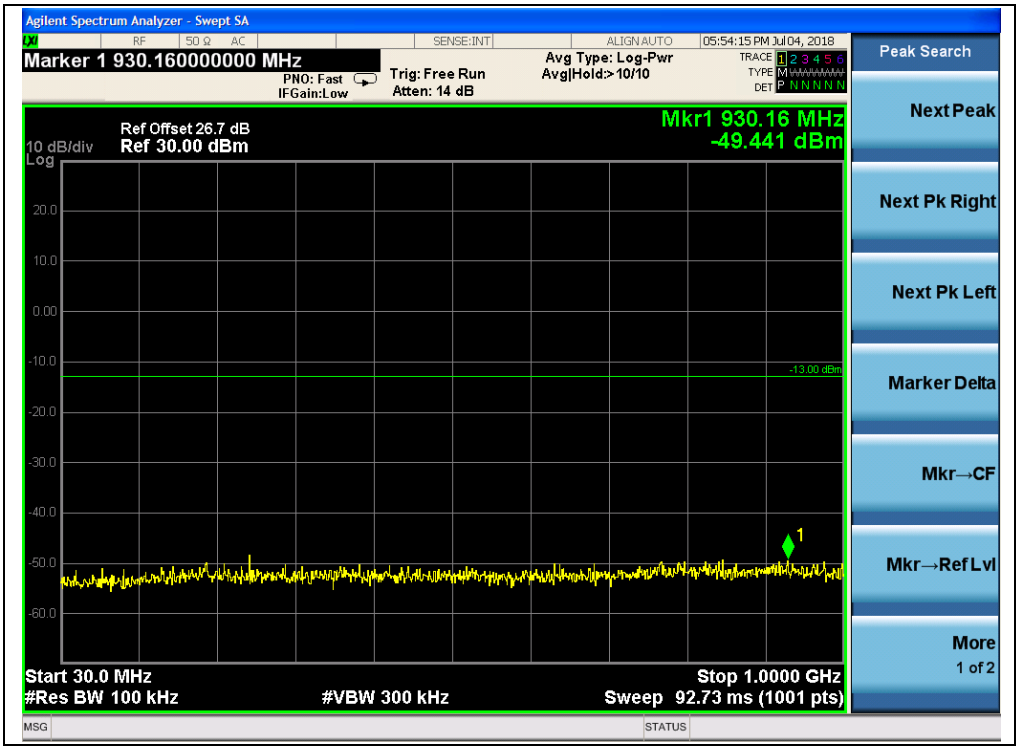
(Plot Q2.1, HSPA+1700MHz, Channel = 1412, 1GHz to 20GHz)



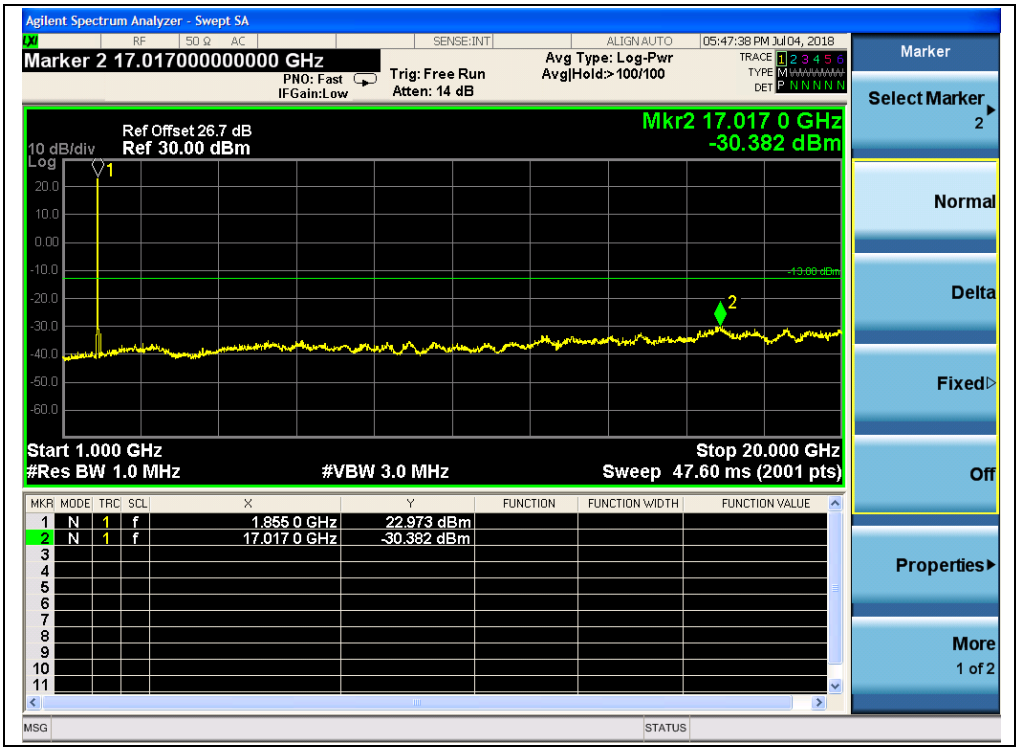
(Plot Q3, HSPA+1700MHz, Channel = 1513, 30MHz to 1GHz)



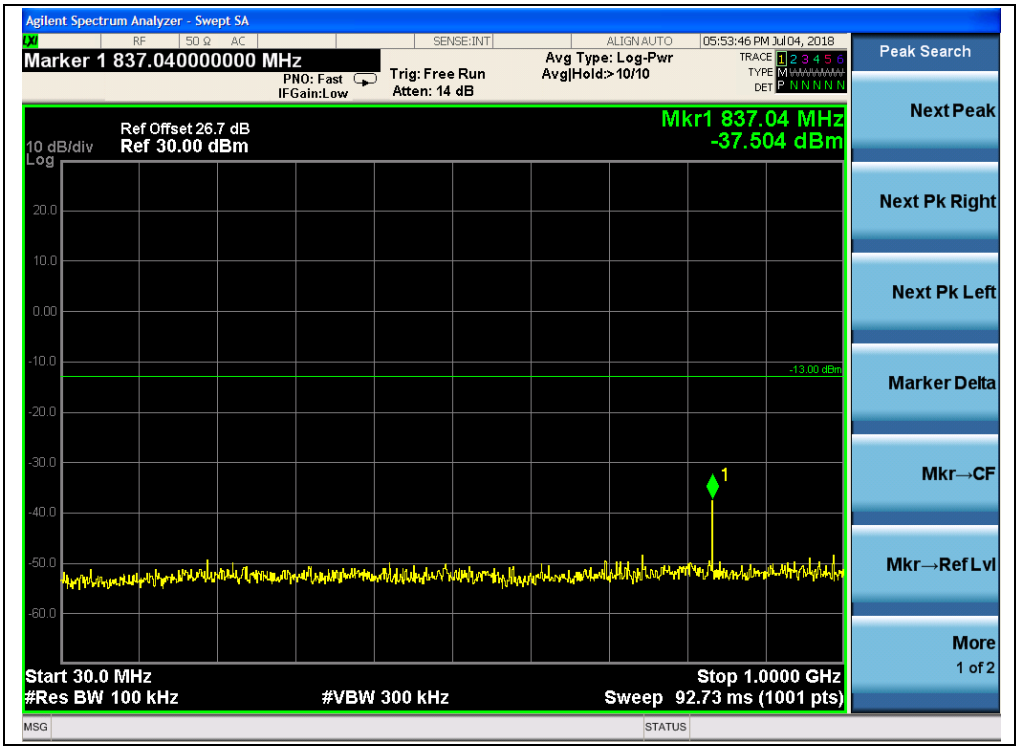
(Plot Q3.1, HSPA+1700MHz, Channel = 1513, 1GHz to 20GHz)



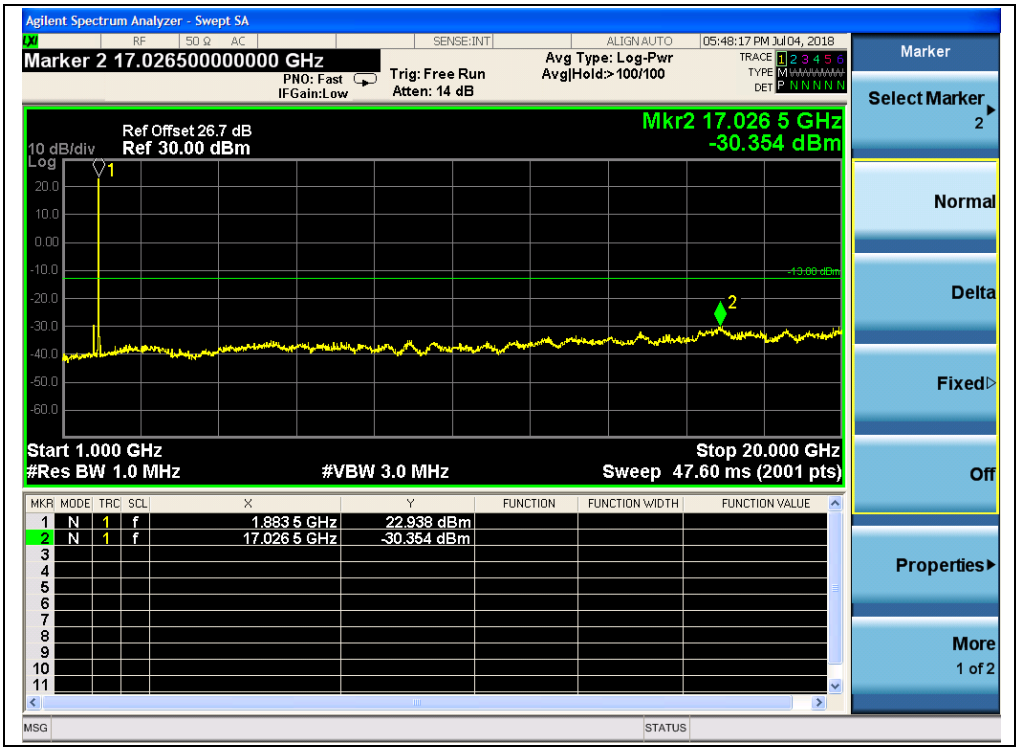
(Plot R1, HSPA+ 1900MHz, Channel = 9262, 30MHz to 1GHz)



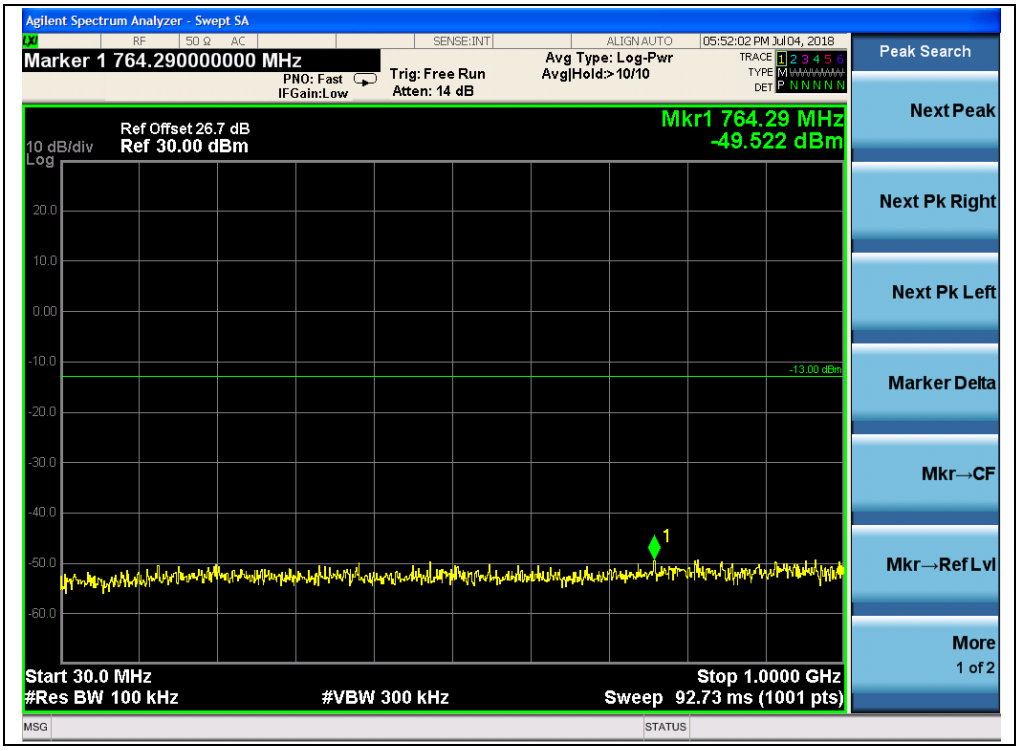
(Plot R1.1, HSPA+ 1900MHz, Channel = 9262, 1GHz to 20GHz)



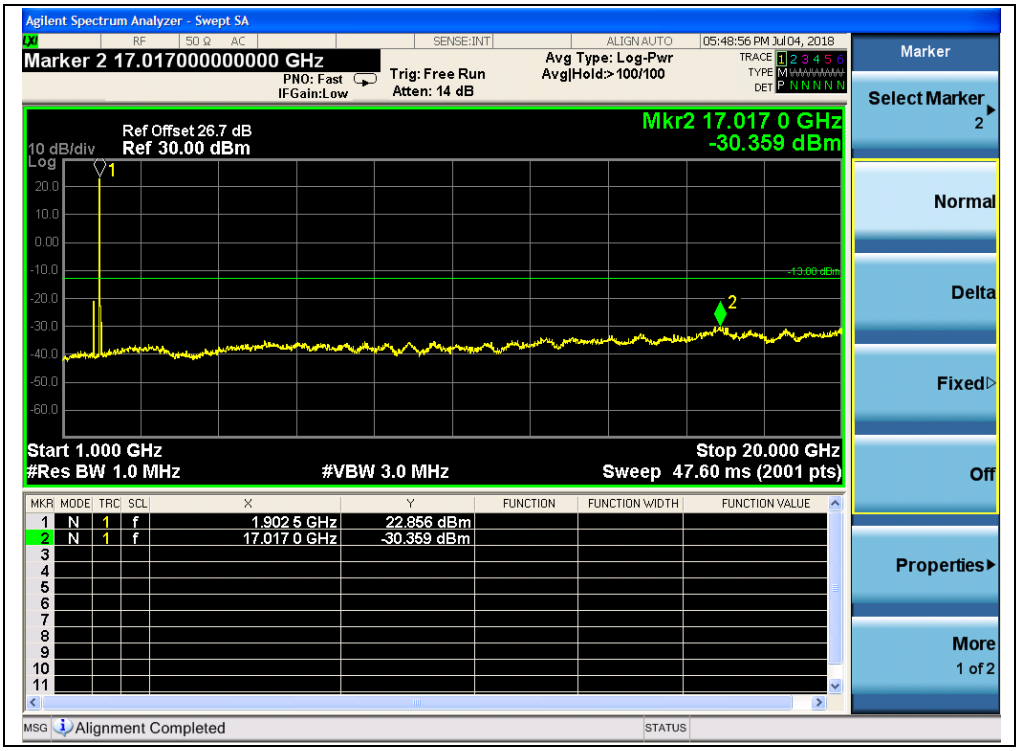
(Plot R2, HSPA+ 1900MHz, Channel = 9400, 30MHz to 1GHz)



(Plot R2.1, HSPA+1900MHz, Channel = 9400, 1GHz to 20GHz)



(Plot R3, HSPA+1900MHz, Channel = 9538, 30MHz to 1GHz)



(Plot R3.1, HSPA+1900MHz, Channel = 9538 1GHz to 20GHz)

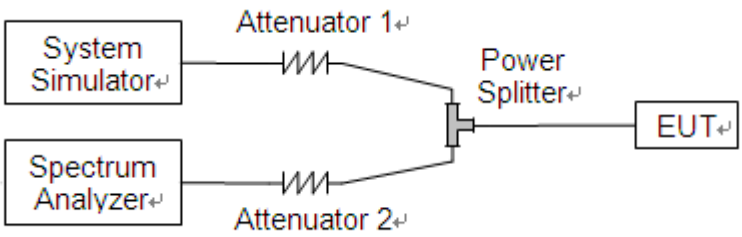
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(b), 24.238(b) and 27.53(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

2.6.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

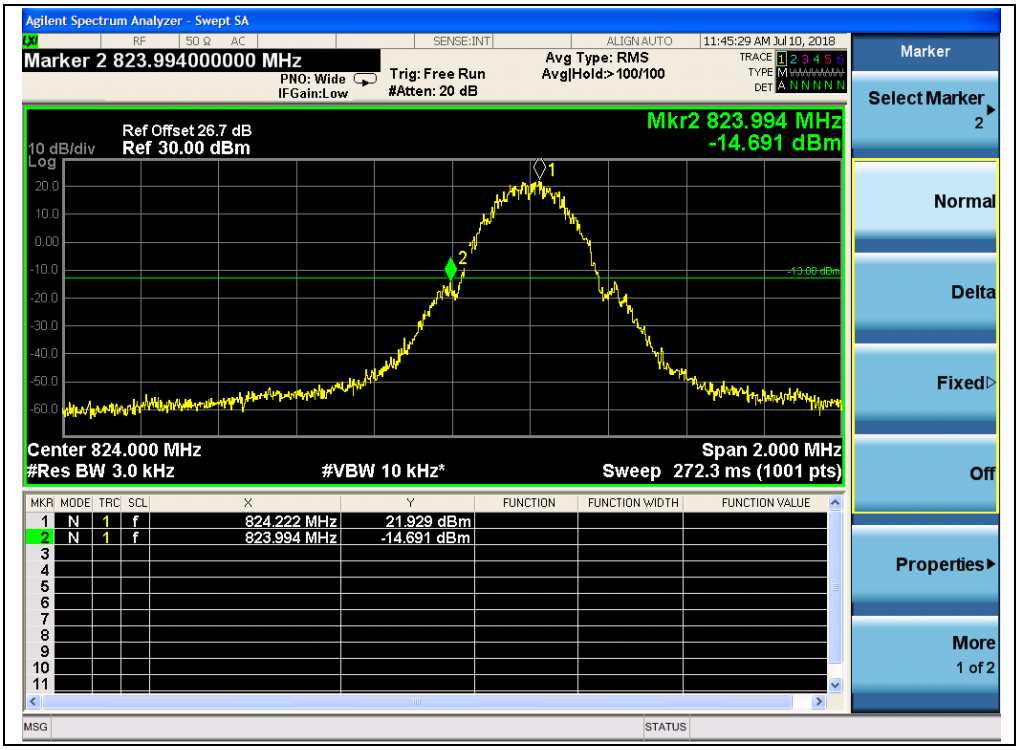
2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

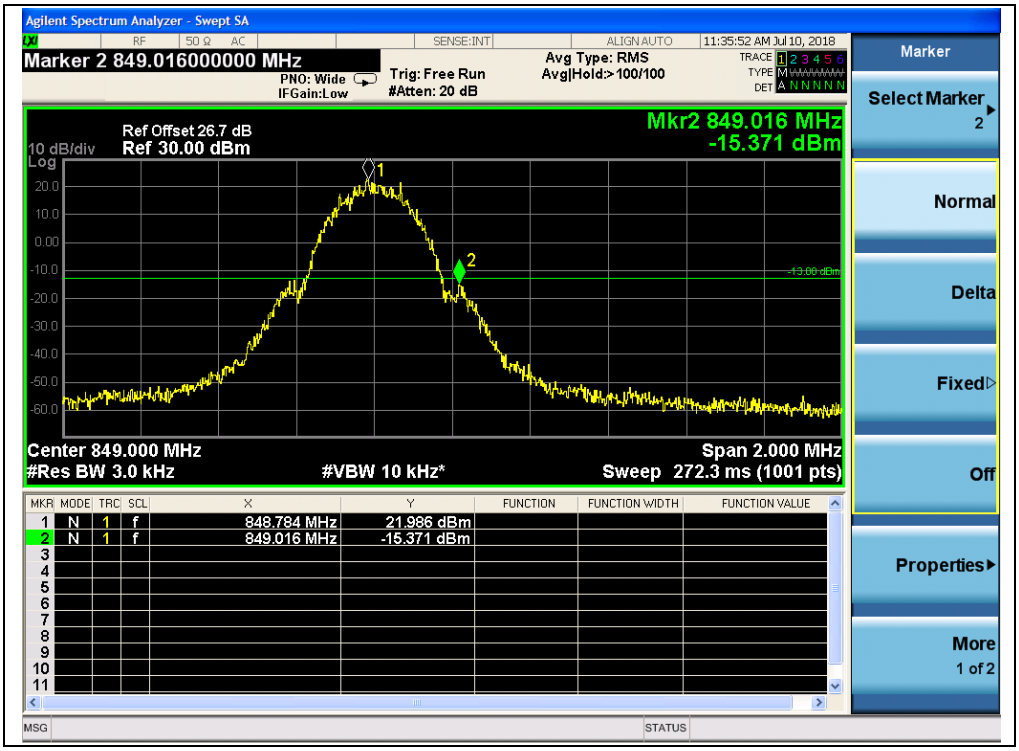
A. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-14.69	Plat A1	-13	PASS
	251	848.8	-15.37	Plot A2		PASS
GSM 1900MHz	512	1850.2	-17.40	Plat B1	-13	PASS
	810	1909.8	-17.01	Plot B2		PASS
EGPRS 850MHz	128	824.2	-22.11	Plat C1	-13	PASS
	251	848.8	-19.59	Plot C2		PASS
EGPRS 1900MHz	512	1850.2	-20.99	Plat D1	-13	PASS
	810	1909.8	-21.77	Plot D2		PASS

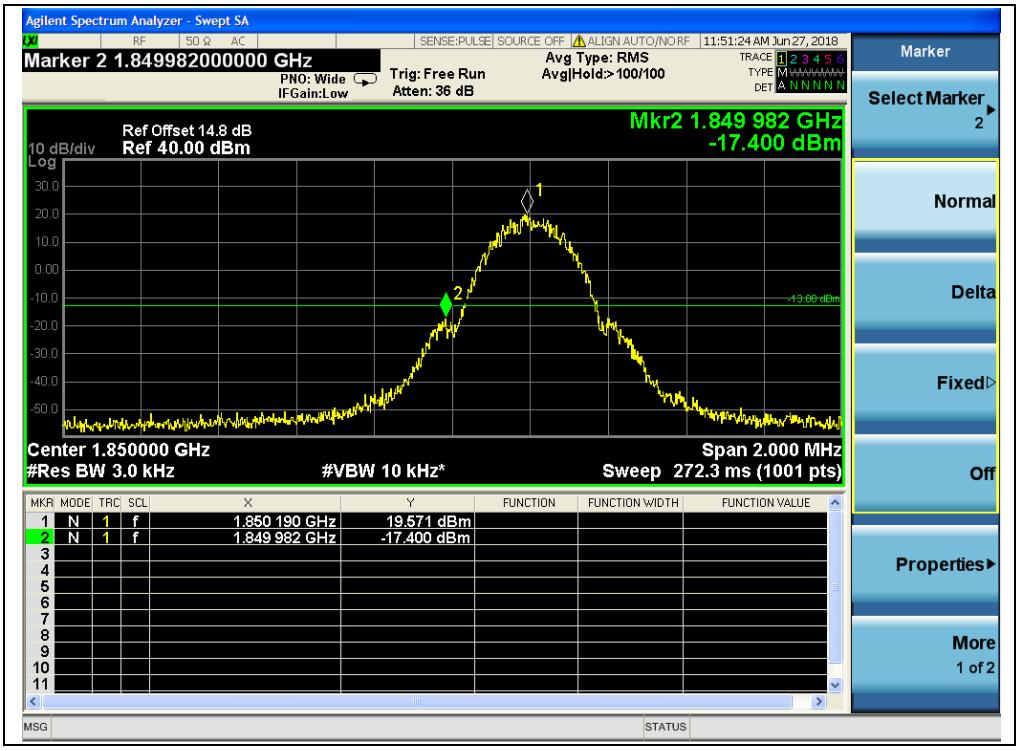
B. Test Plots:



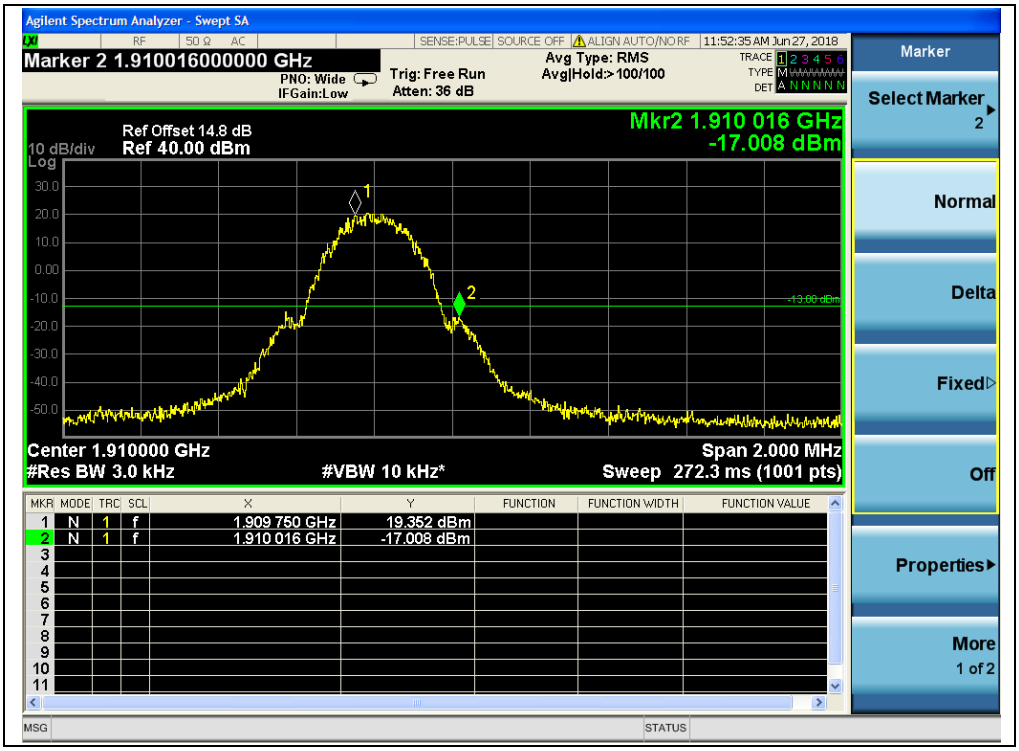
(Plot A1, GSM 850, Channel = 128)



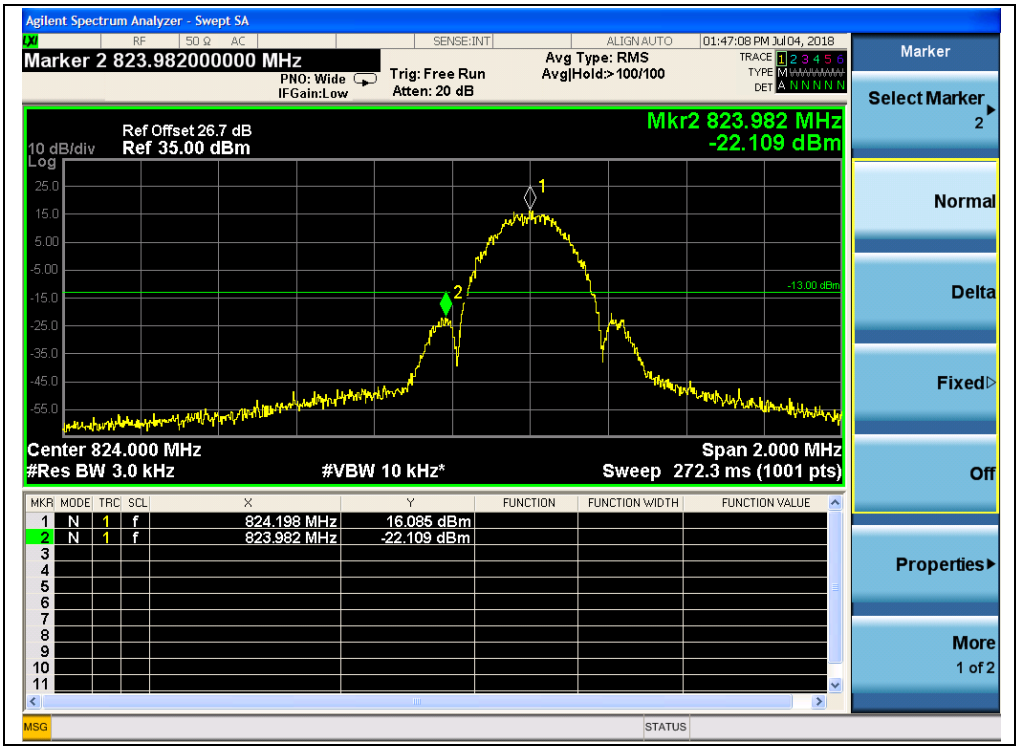
(Plot A2, GSM 850, Channel = 251)



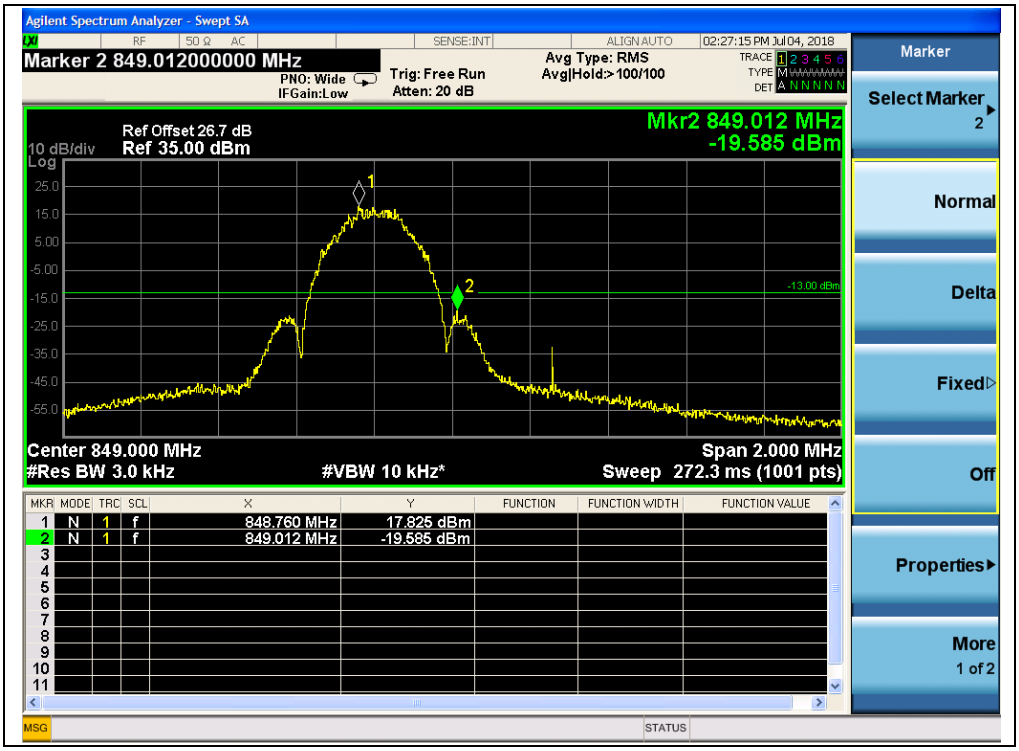
(Plot B1, GSM 1900, Channel = 512)



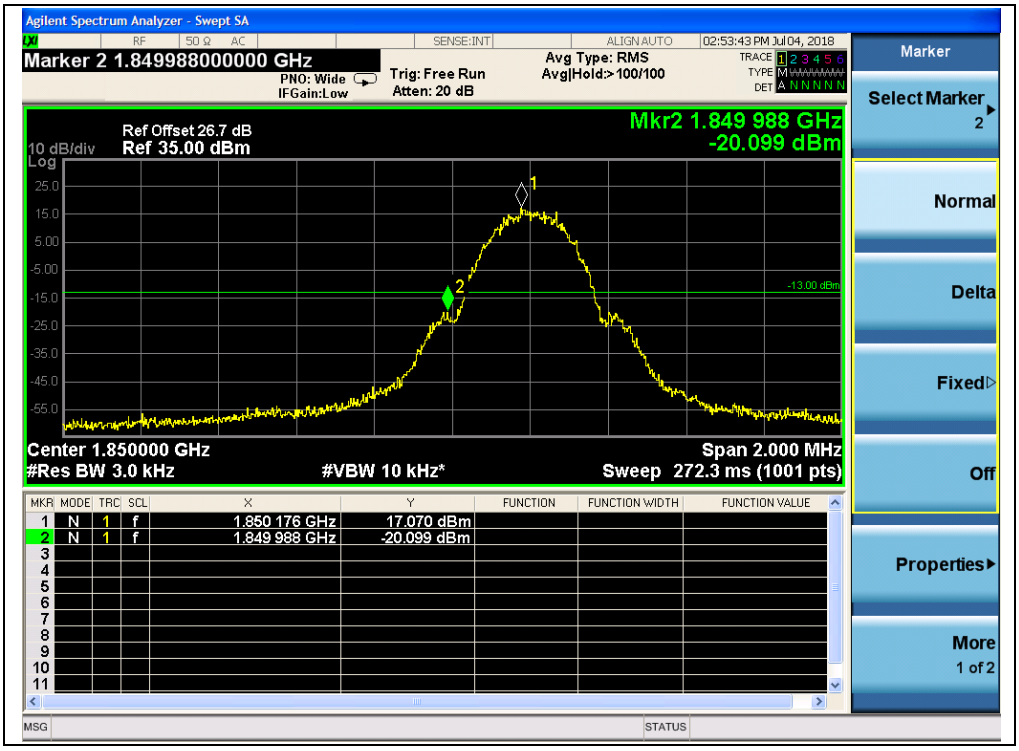
(Plot B2, GSM 1900, Channel = 810)



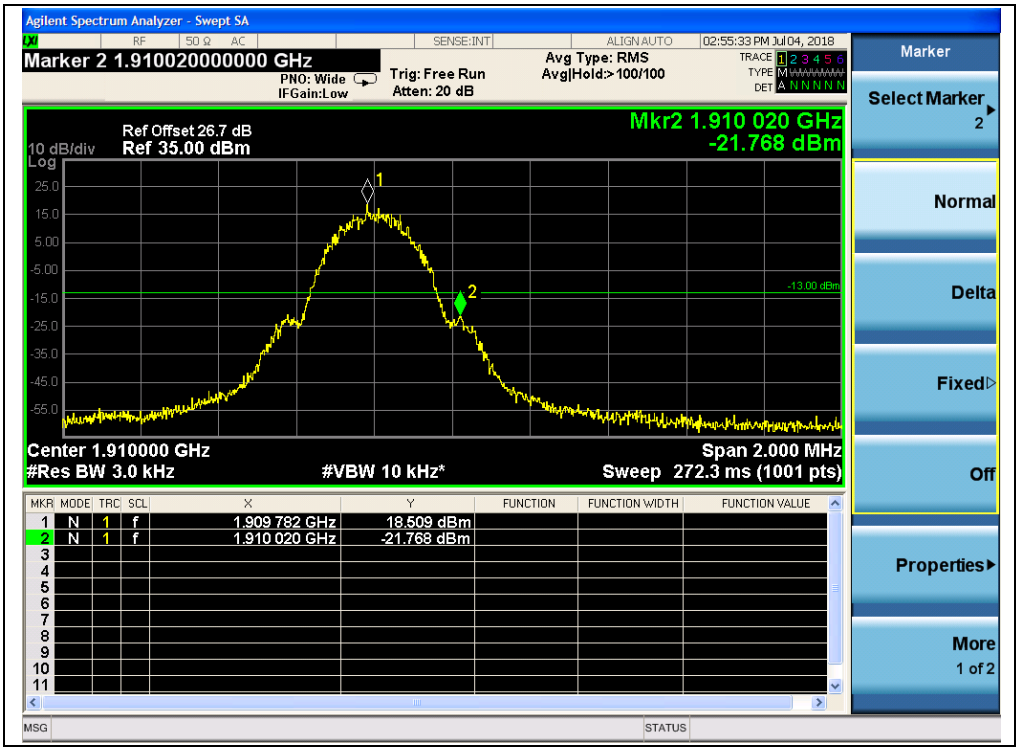
(Plot C1, EGPRS 850, Channel = 128)



(Plot C2, EGPRS 850, Channel = 251)



(Plot D1, EGPRS 1900, Channel = 512)

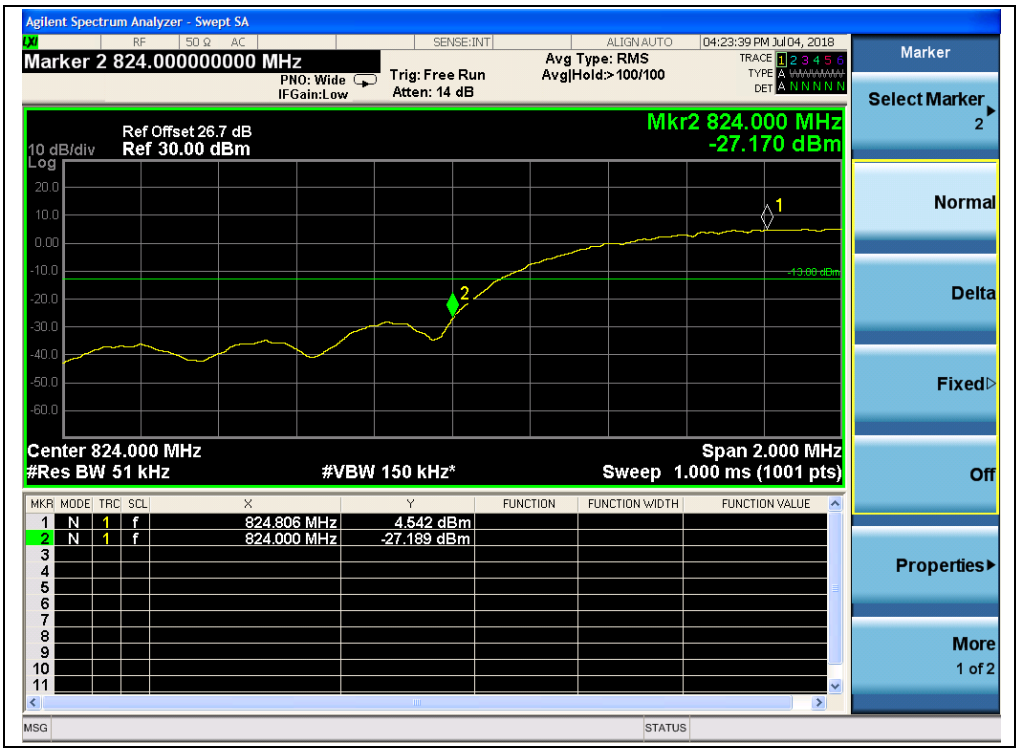


(Plot D2, EGPRS 1900, Channel = 810)

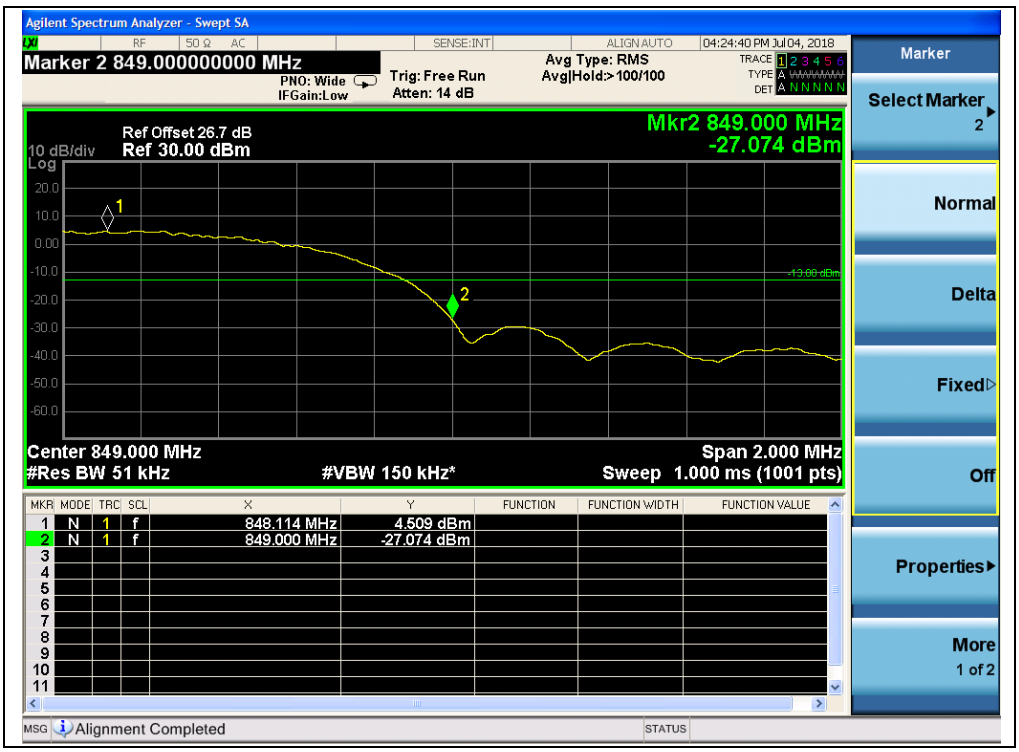
WCDMA Test Verdict

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
WCDMA 850MHz	4132	826.4	-27.19	Plat E1	-13	PASS
	4233	846.6	-27.07	Plot E2		PASS
WCDMA 1700MHz	1312	1712.4	-19.16	Plat F1	-13	PASS
	1513	1752.6	-22.21	Plot F2		PASS
WCDMA 1900MHz	9262	1852.4	-23.84	Plat G1	-13	PASS
	9538	1907.6	-27.42	Plot G2		PASS
HSDPA 850MHz	4132	826.4	-27.75	Plat H1	-13	PASS
	4233	846.6	-27.19	Plot H2		PASS
HSDPA 1700MHz	1312	1712.4	-19.23	Plat I1	-13	PASS
	1513	1752.6	-21.34	Plot I2		PASS
HSDPA 1900MHz	9262	1852.4	-24.64	Plat J1	-13	PASS
	9538	1907.6	-27.04	Plot J2		PASS
HSUPA 850MHz	4132	826.4	-27.43	Plat K1	-13	PASS
	4233	846.6	-26.67	Plot K2		PASS
HSUPA 1700MHz	1312	1712.4	-18.44	Plat L1	-13	PASS
	1513	1752.6	-21.79	Plot L2		PASS
HSUPA 1900MHz	9262	1852.4	-24.35	Plat M1	-13	PASS
	9538	1907.6	-27.09	Plot M2		PASS
HSPA+ 850MHz	4132	826.4	-28.18	Plat N1	-13	PASS
	4233	846.6	-27.41	Plot N2		PASS
HSPA+ 1700MHz	1312	1712.4	-23.93	Plat O1	-13	PASS
	1513	1752.6	-26.07	Plot O2		PASS
HSPA+ 1900MHz	9262	1852.4	-24.49	Plat P1	-13	PASS
	9538	1907.6	-27.15	Plot P2		PASS

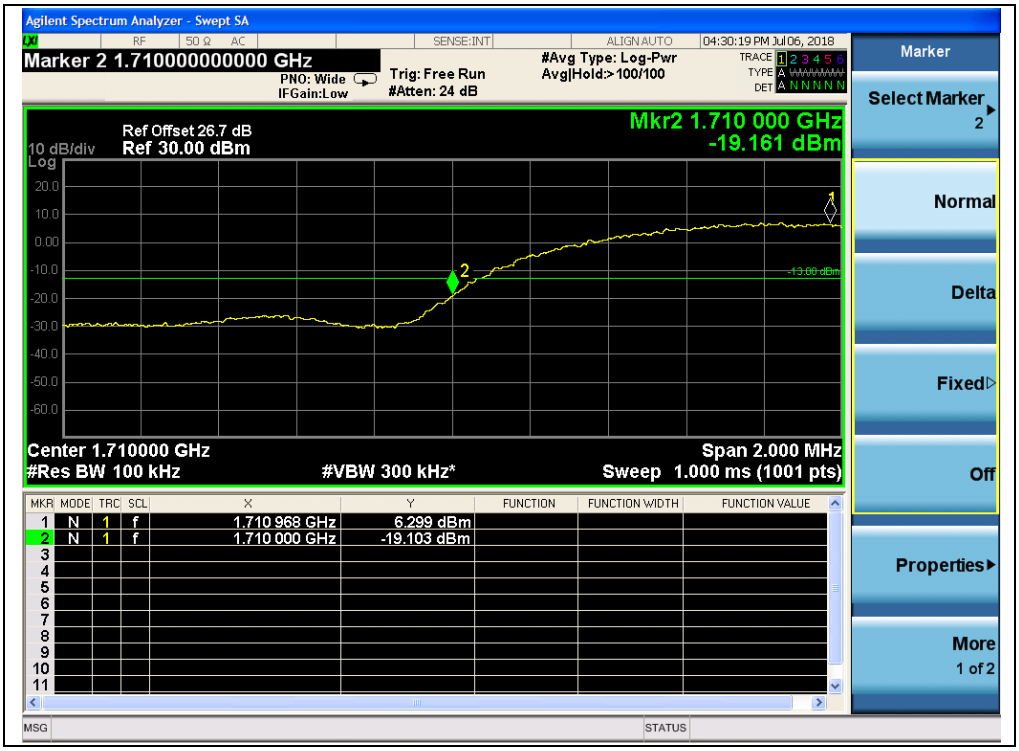
Test Plot



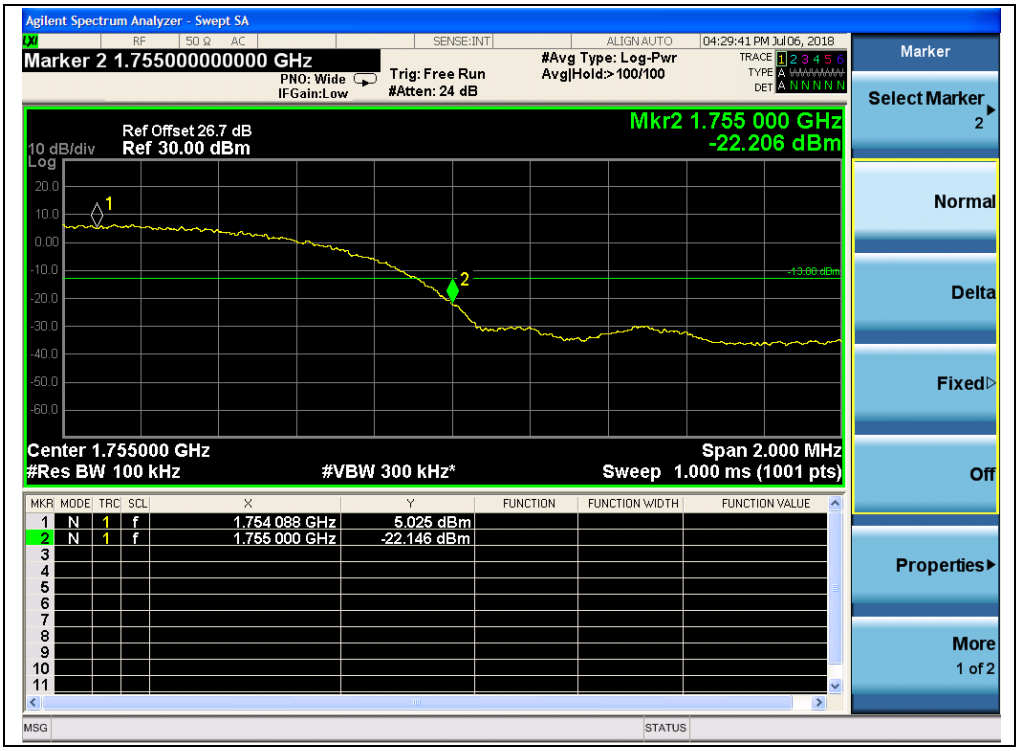
(Plot E1, WCDMA 850, Channel = 4132)



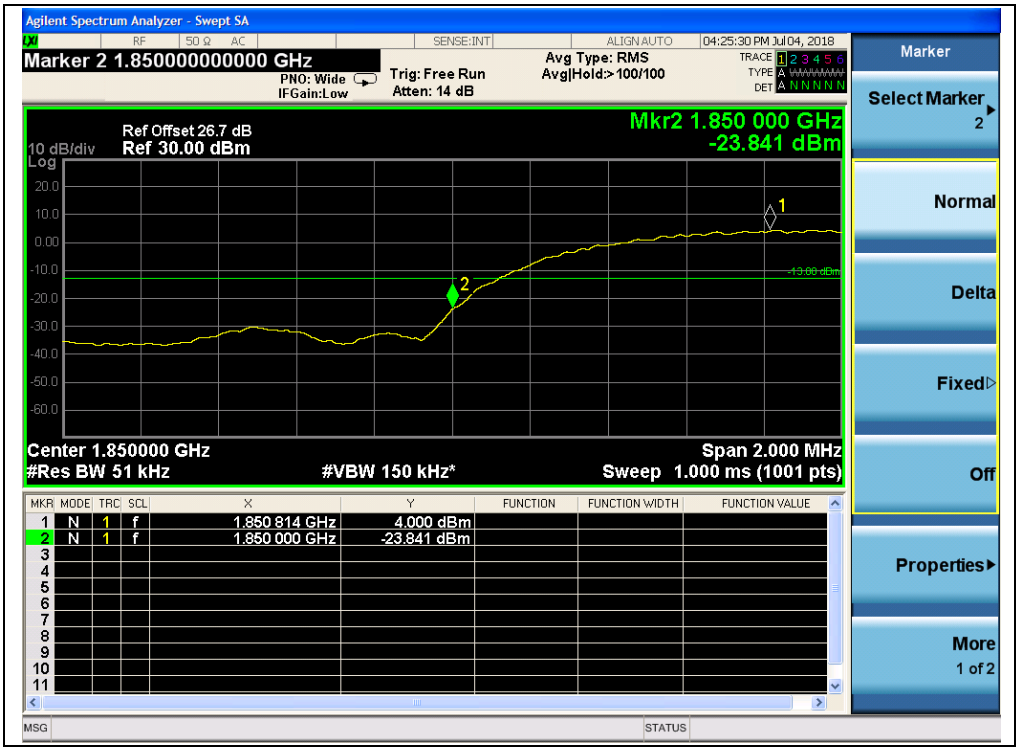
(Plot E2, WCDMA 850, Channel = 4233)



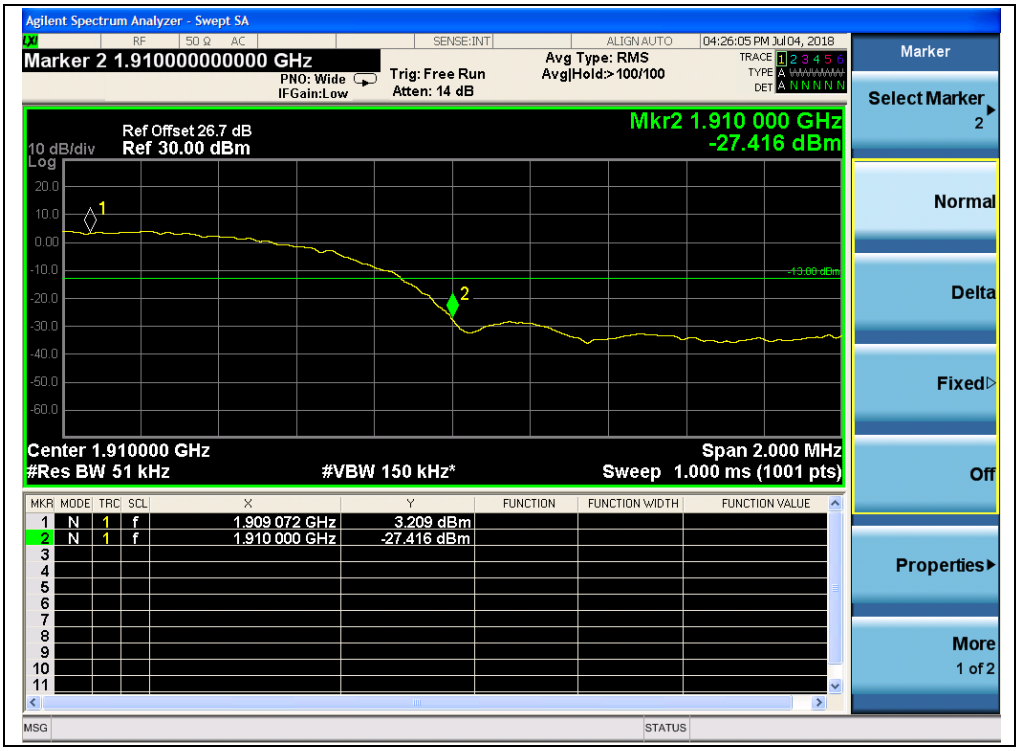
(Plot F1, WCDMA 1700, Channel = 1312)



(Plot F2, WCDMA 1700, Channel = 1513)



(Plot G1,WCDMA 1900, Channel = 9262)



(Plot G2, WCDMA 1900, Channel = 9538)