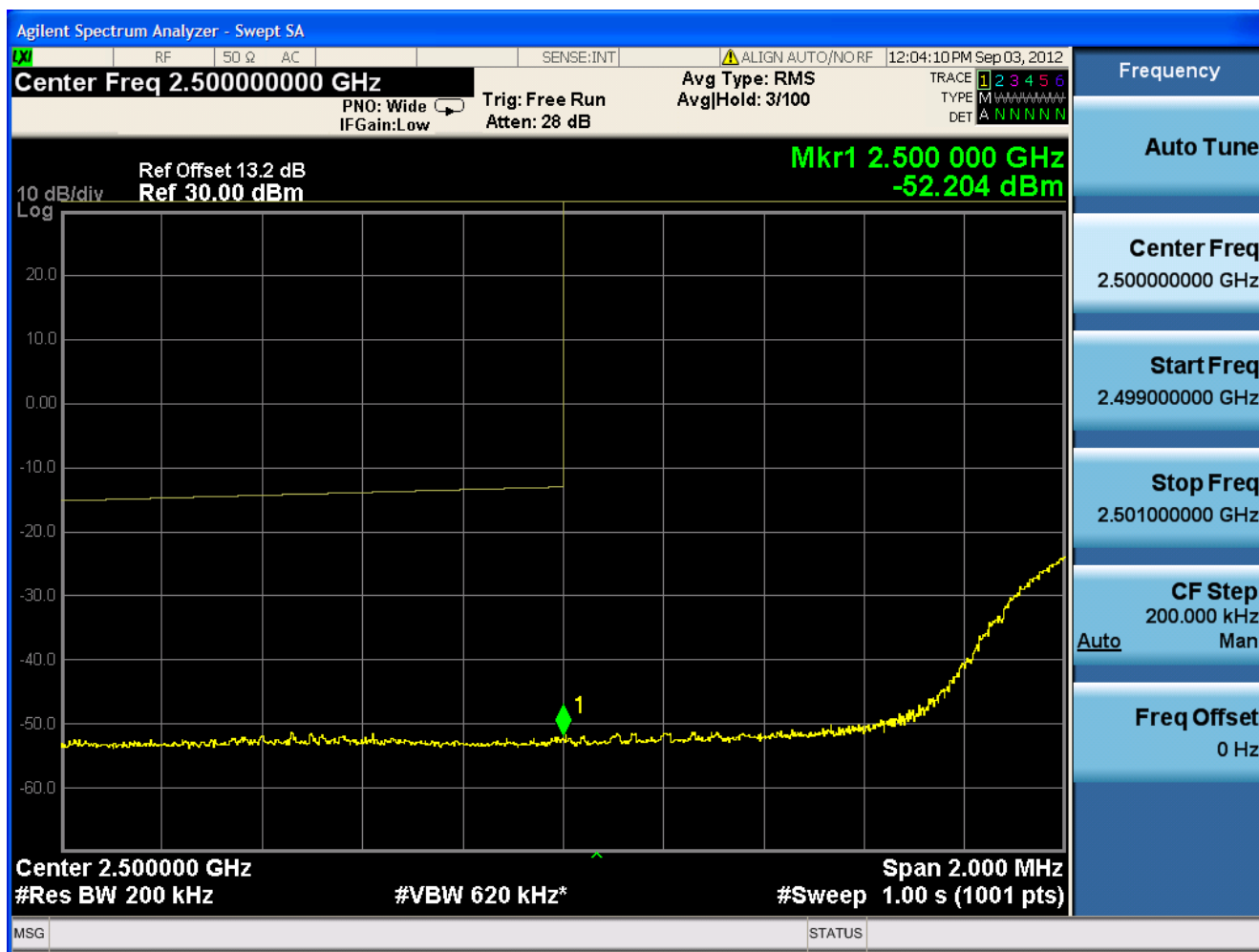
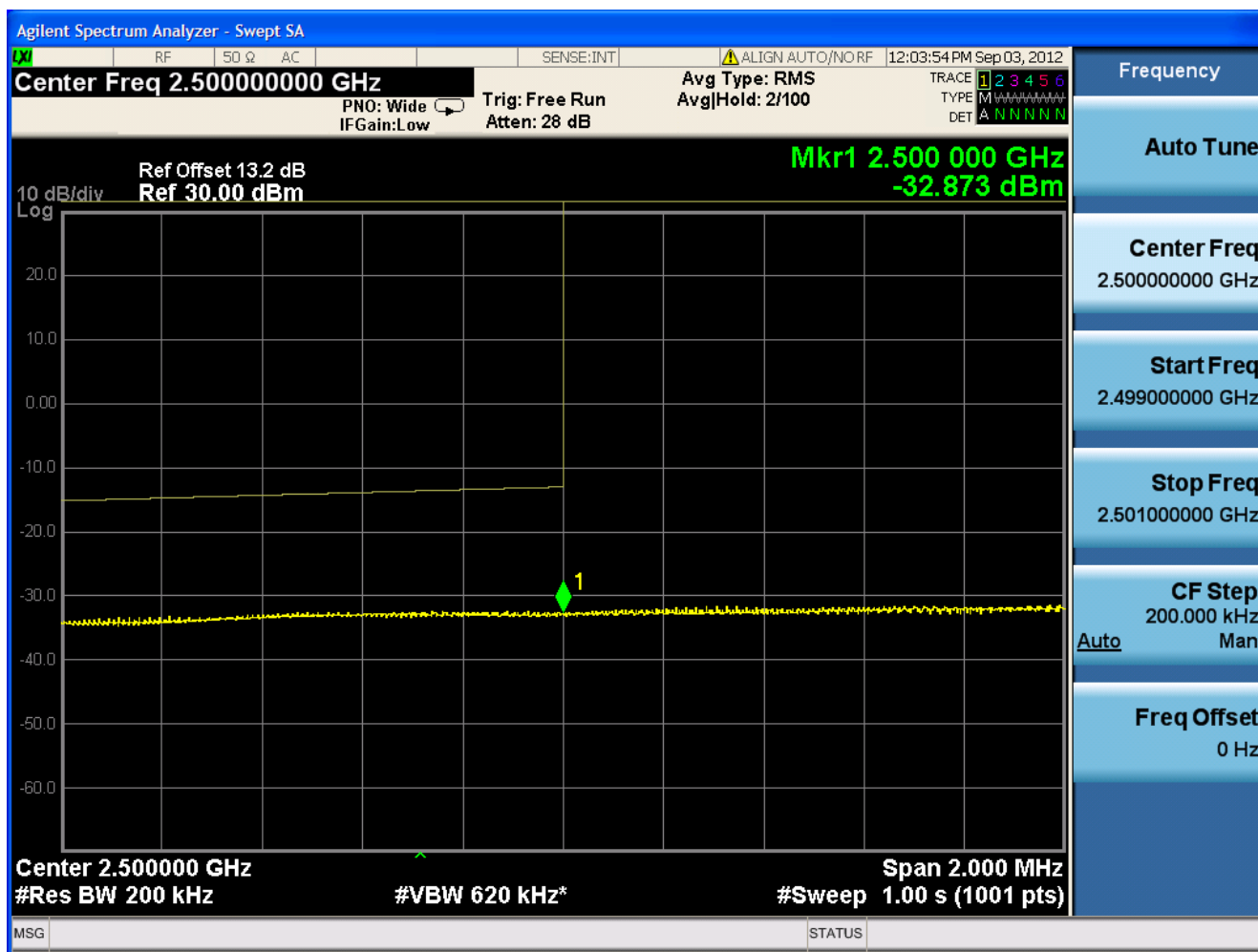






1.2.4.1.3 16QAM / non-1RB #mid/2

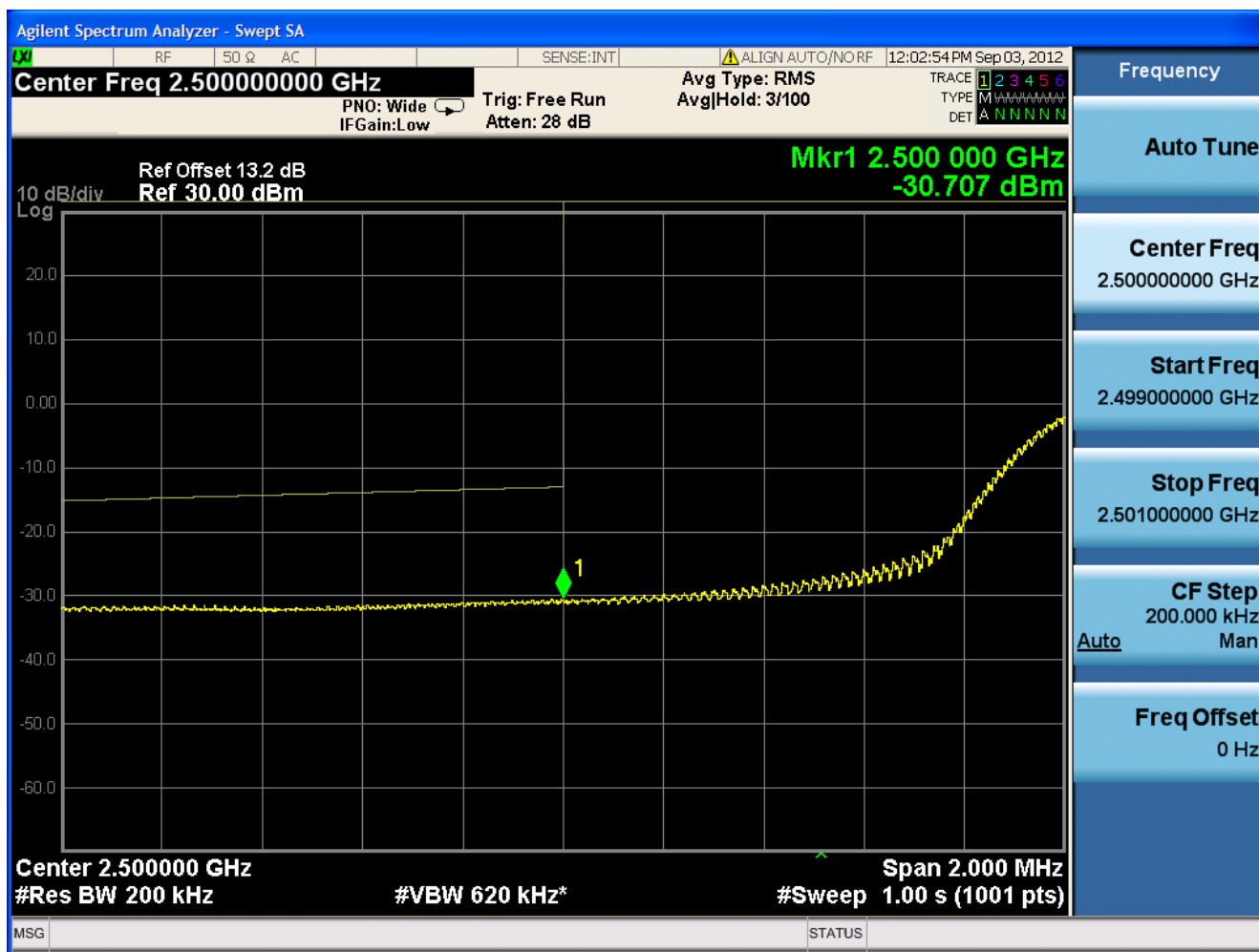






1.2.4.1.4 16QAM /full RBs

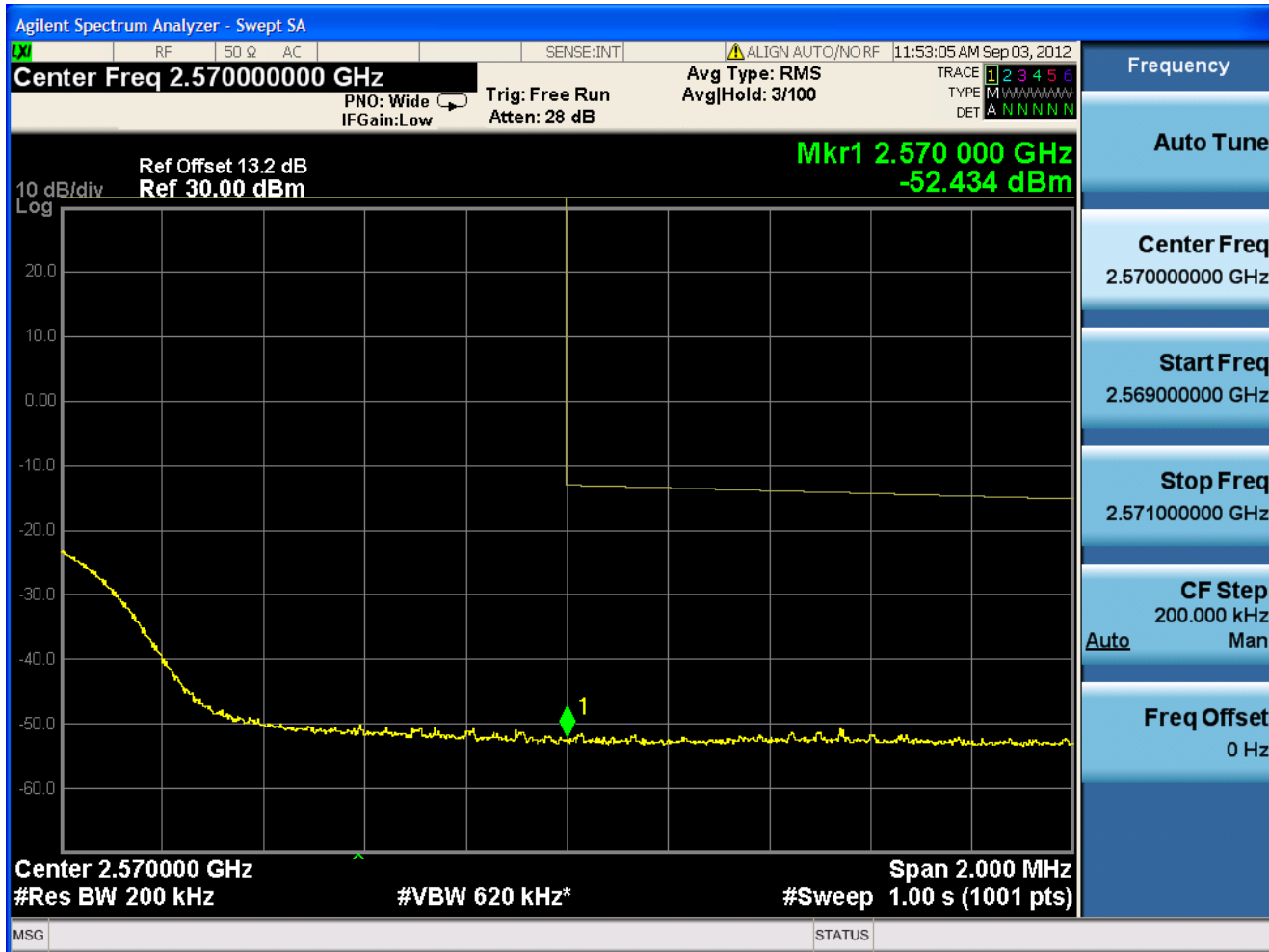






1.2.4.2 Channel= T

1.2.4.2.1 16QAM /1RB #0







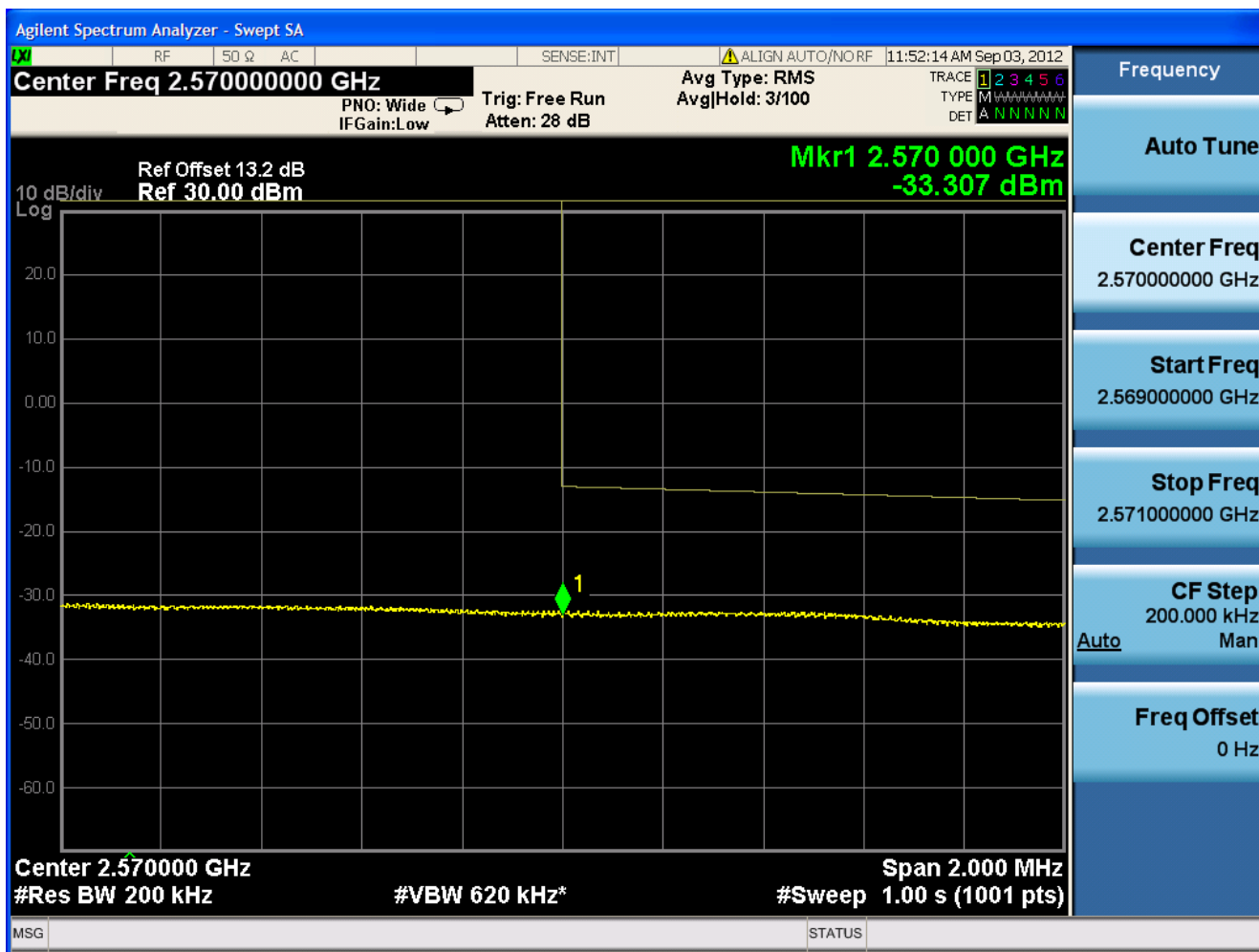
1.2.4.2.2 16QAM /1RB #max







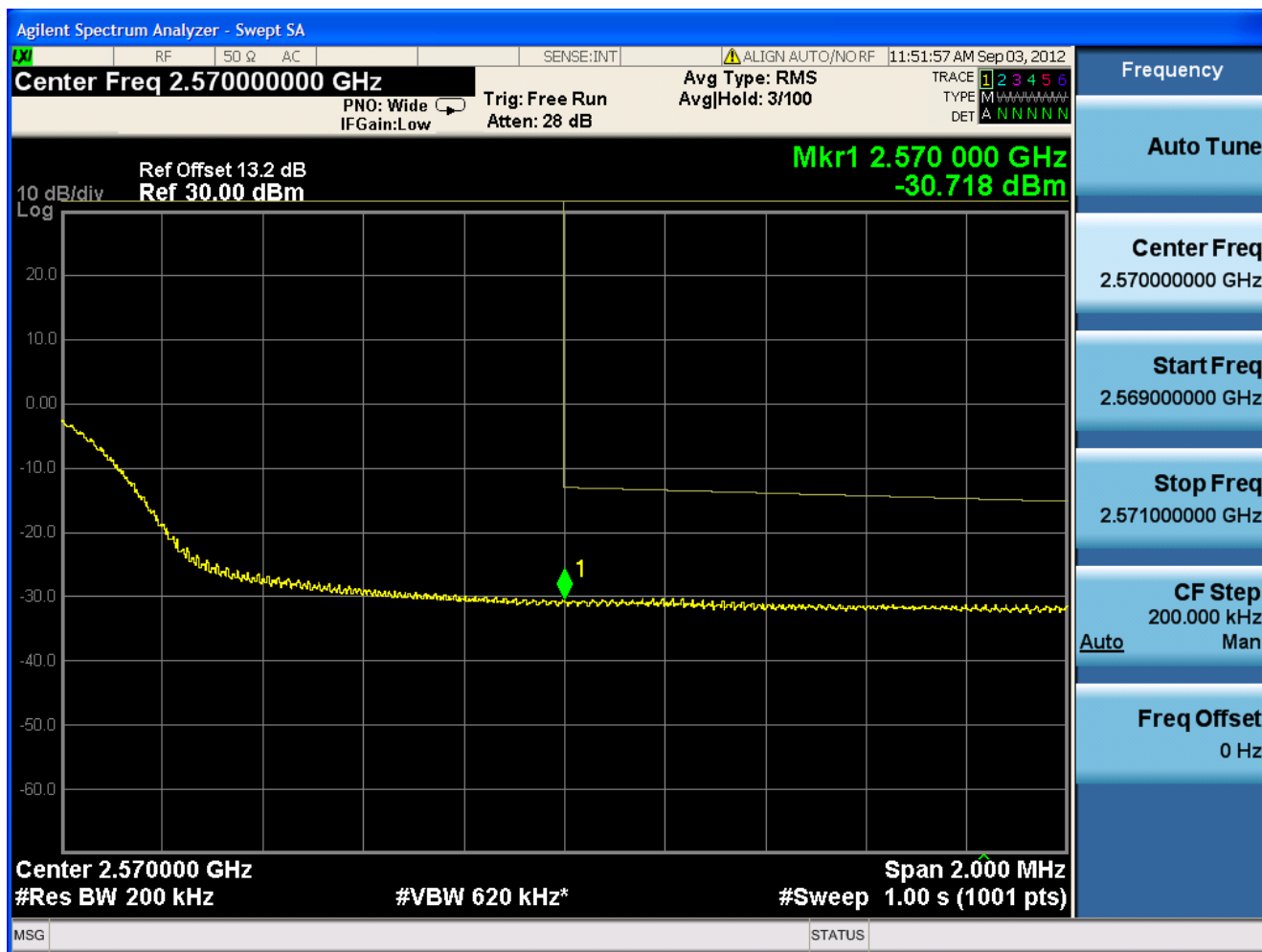
1.2.4.2.3 16QAM / non-1RB #mid/2







1.2.4.2.4 16QAM /full RBs





-----END-----



Appendix E

Spurious Emission at Antenna Terminal According to FCC Part 2.1051 & Part 27 (m) & RSS-199

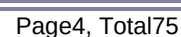
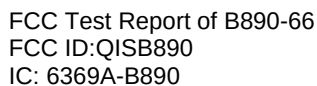


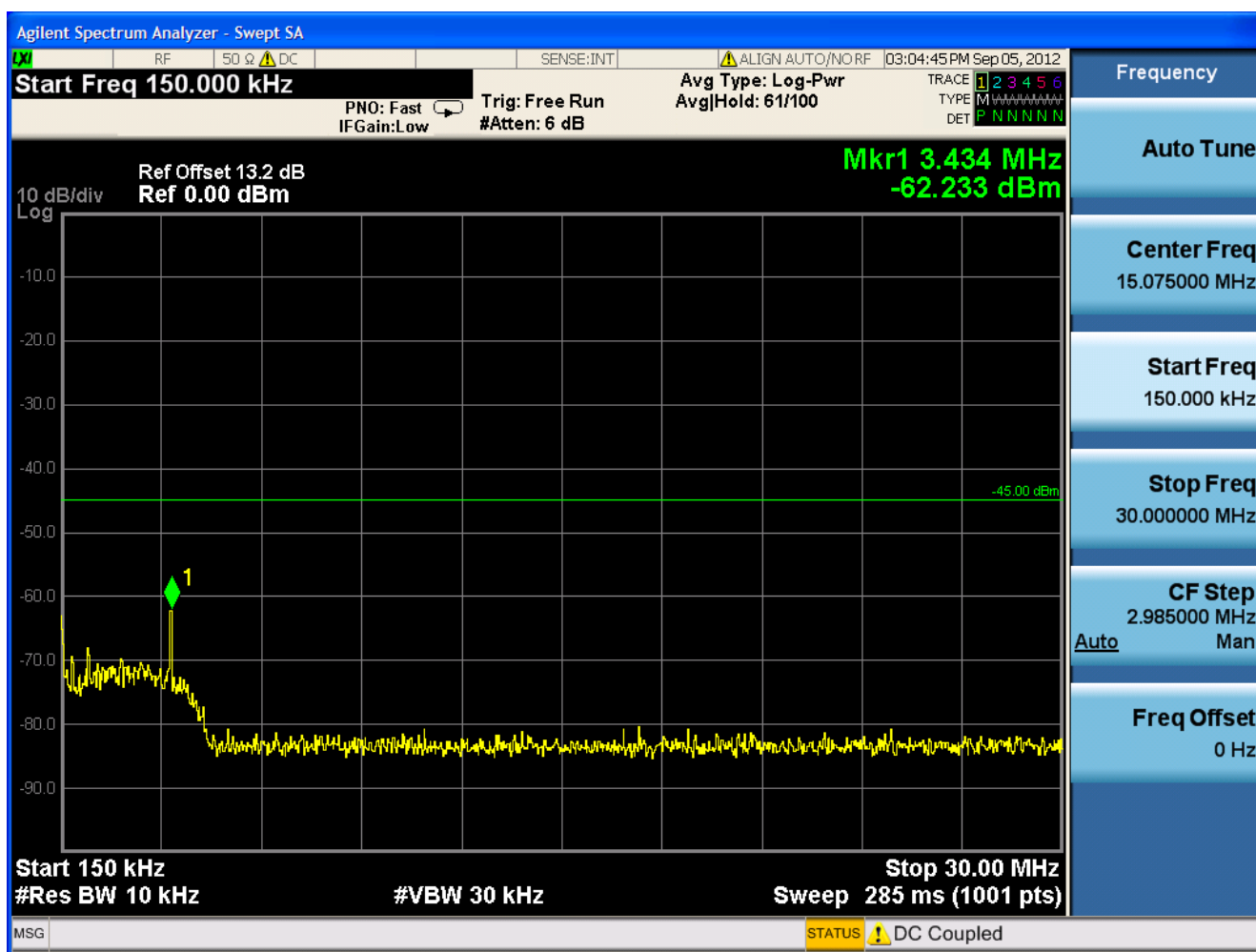
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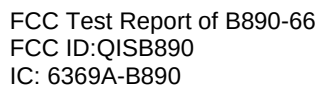


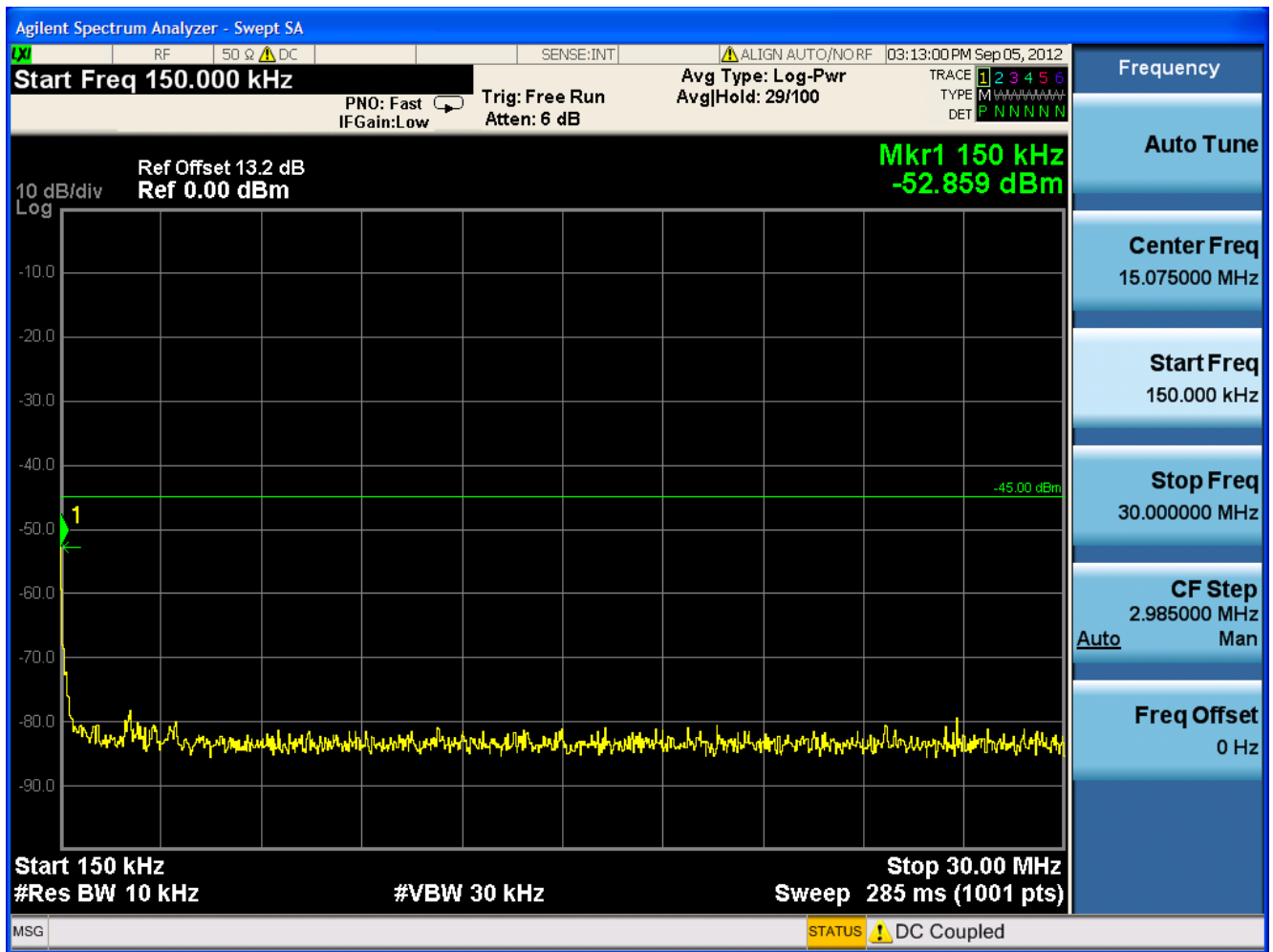
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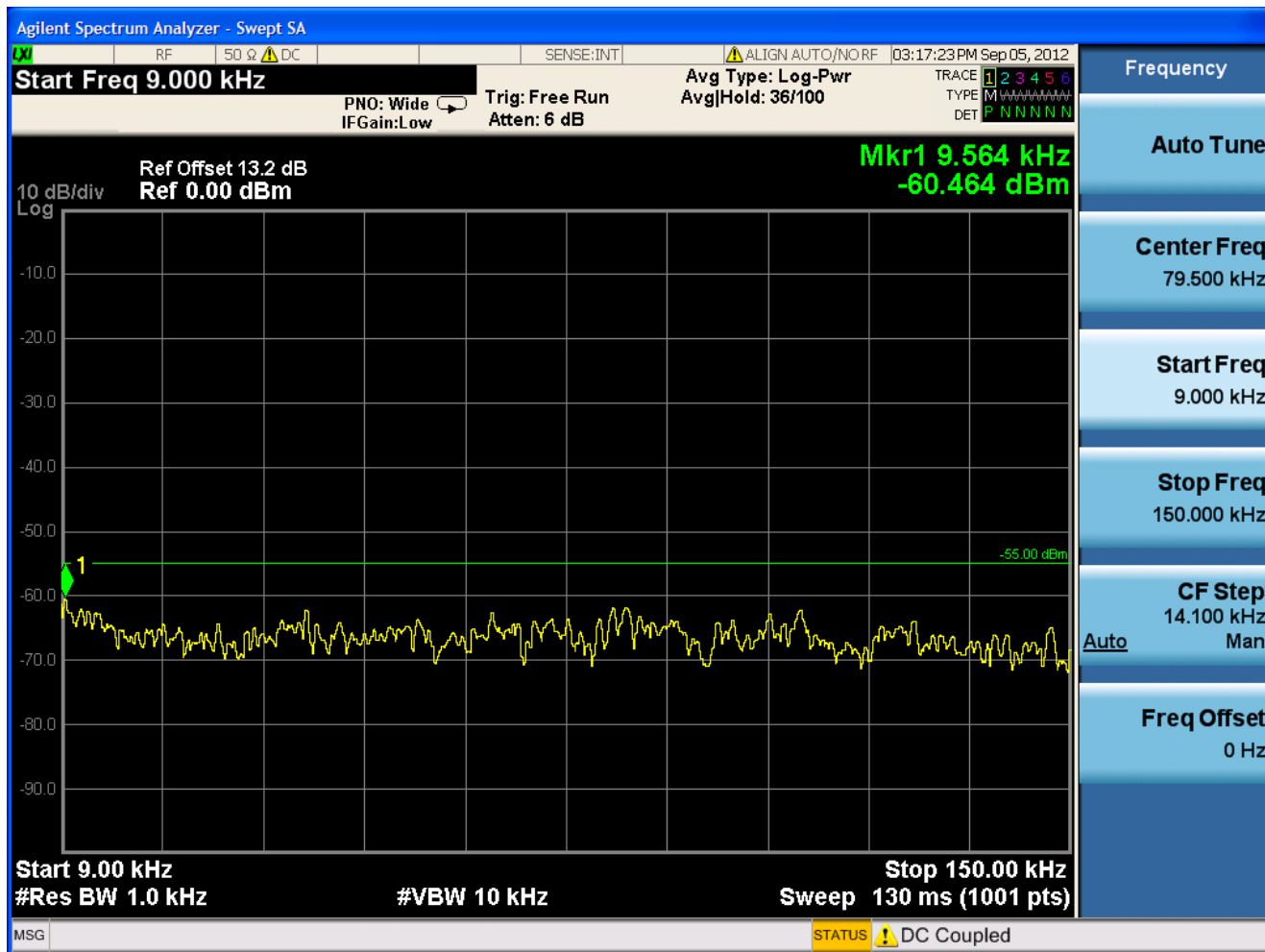


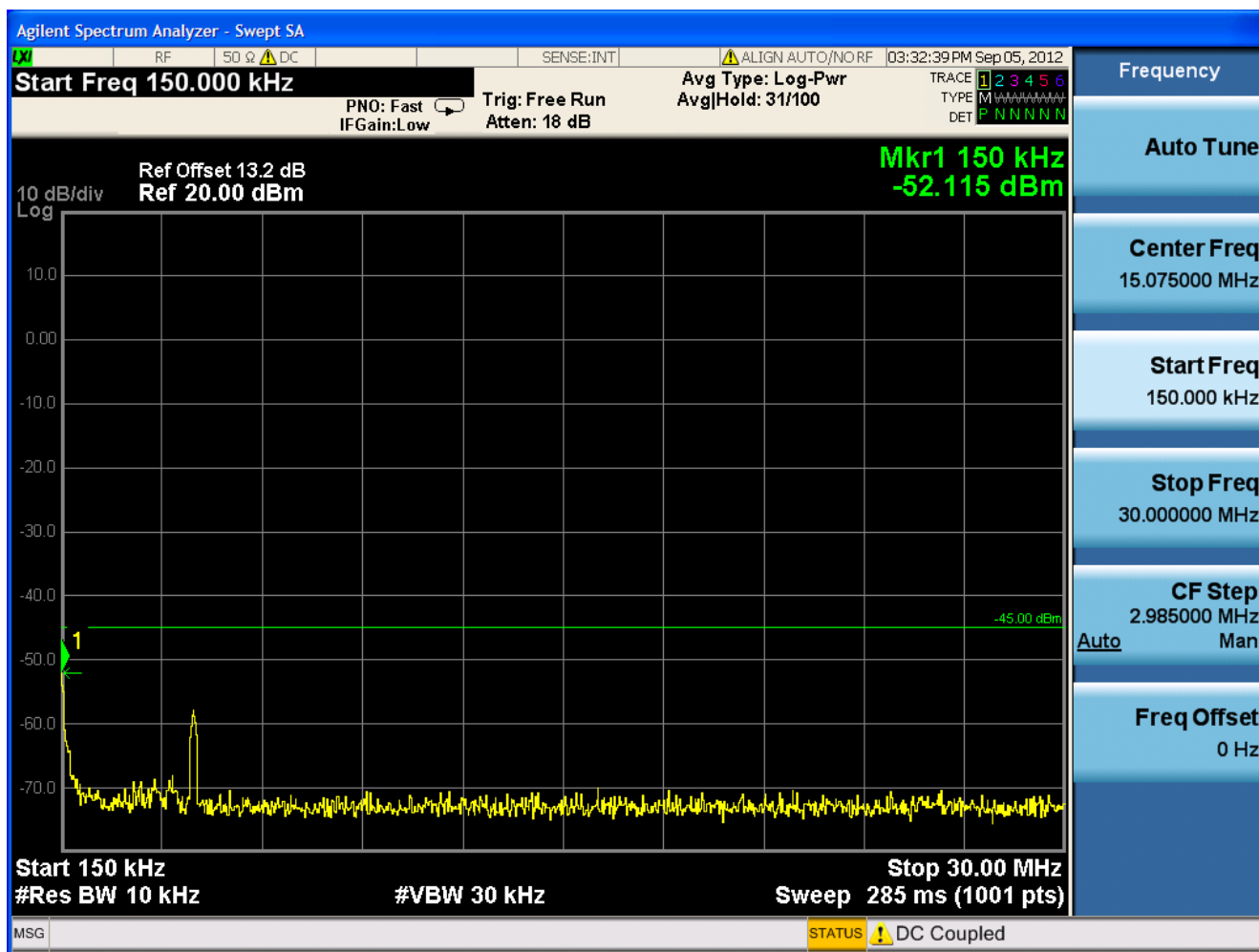


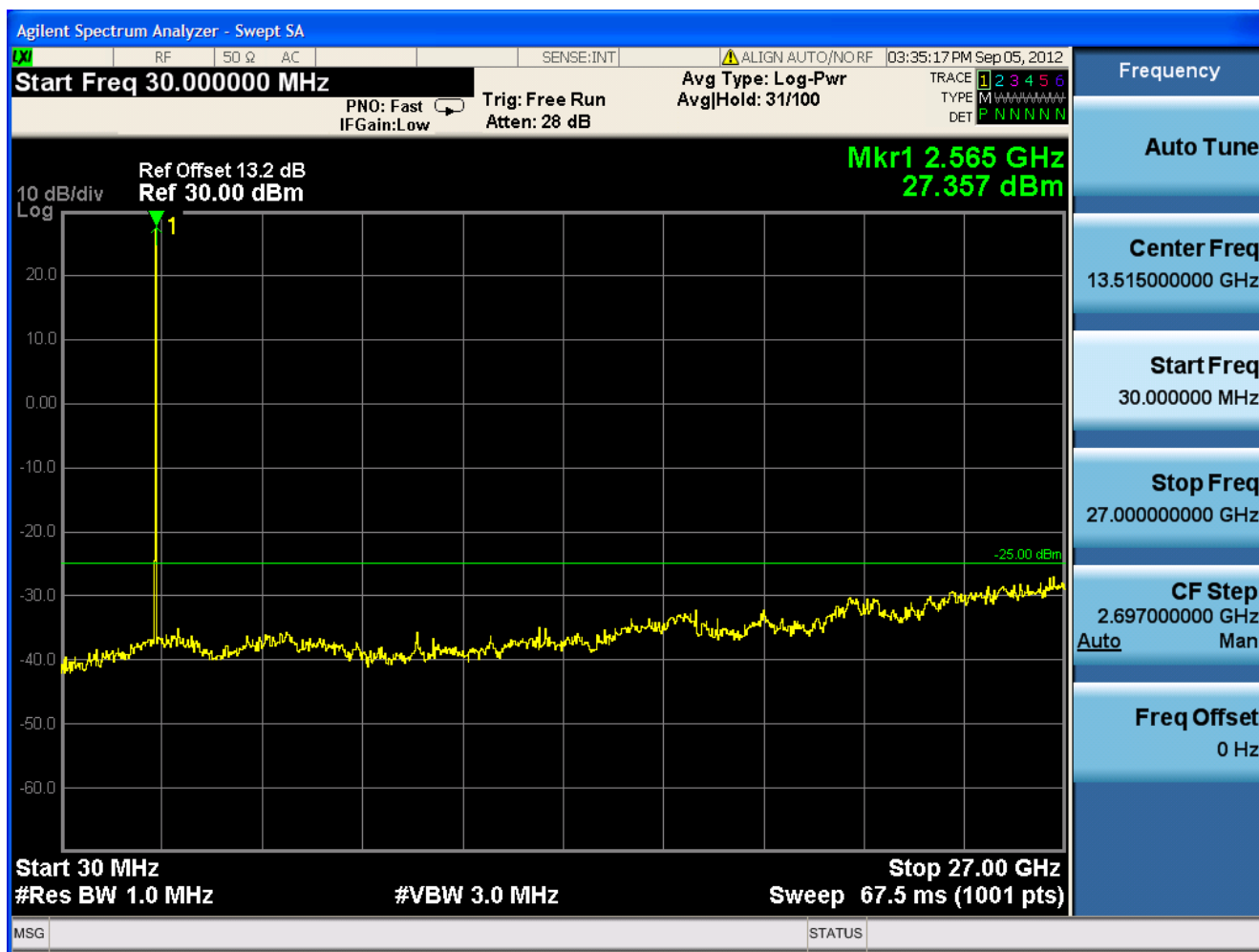


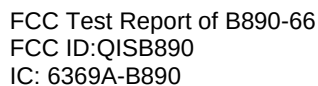
1.1.1.3 Channel = T

1.1.1.3.1 QPSK/1RBs /RB #0





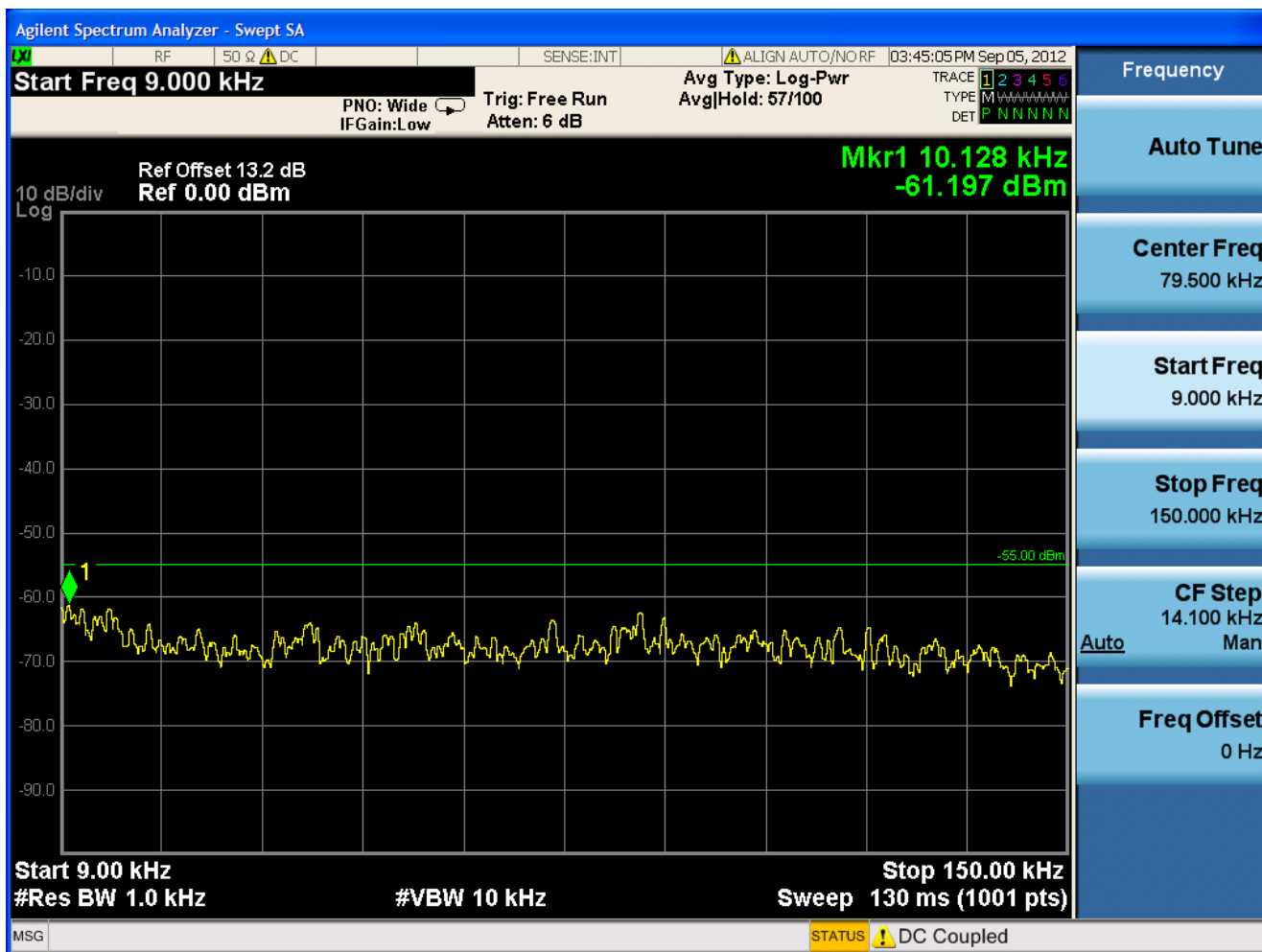


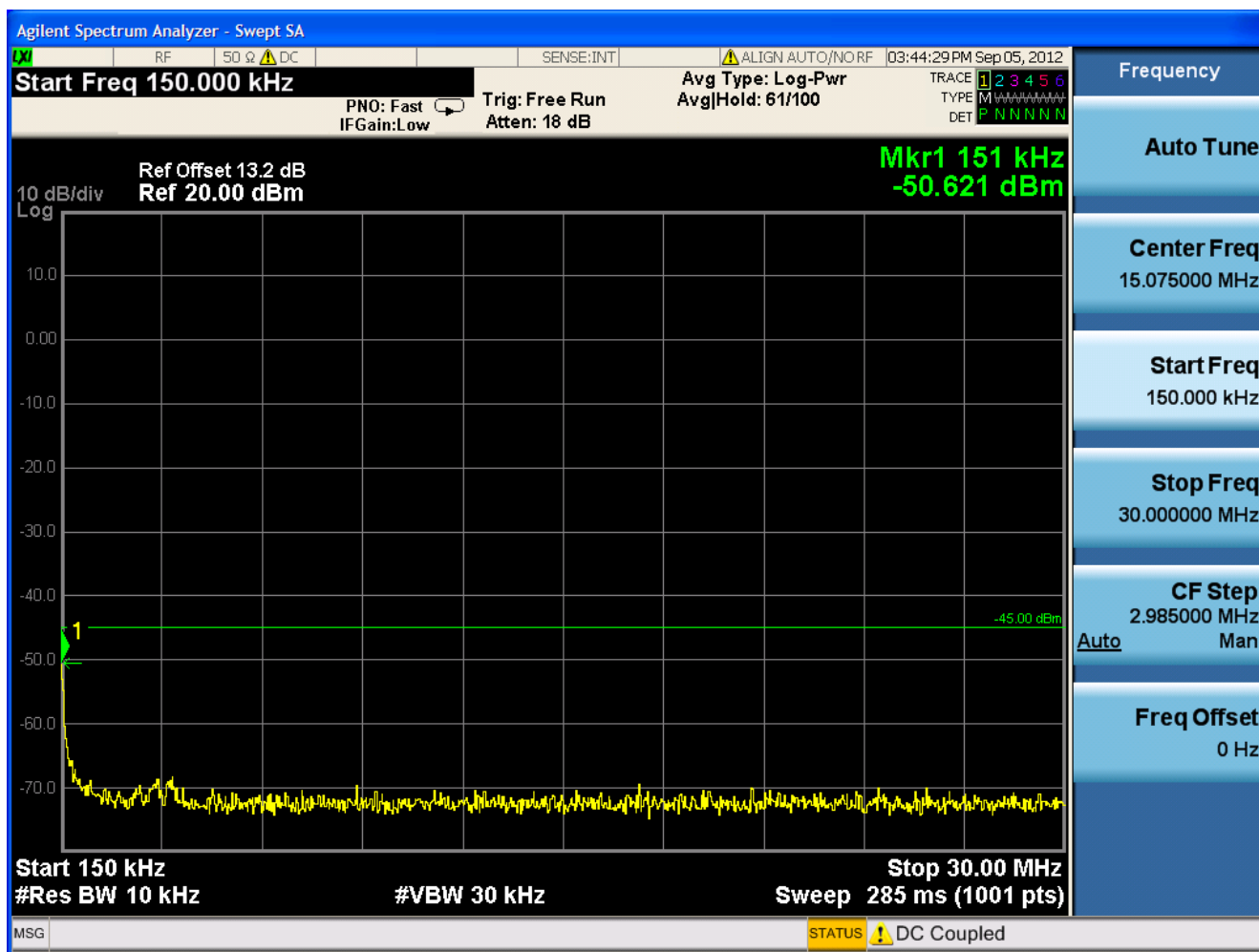


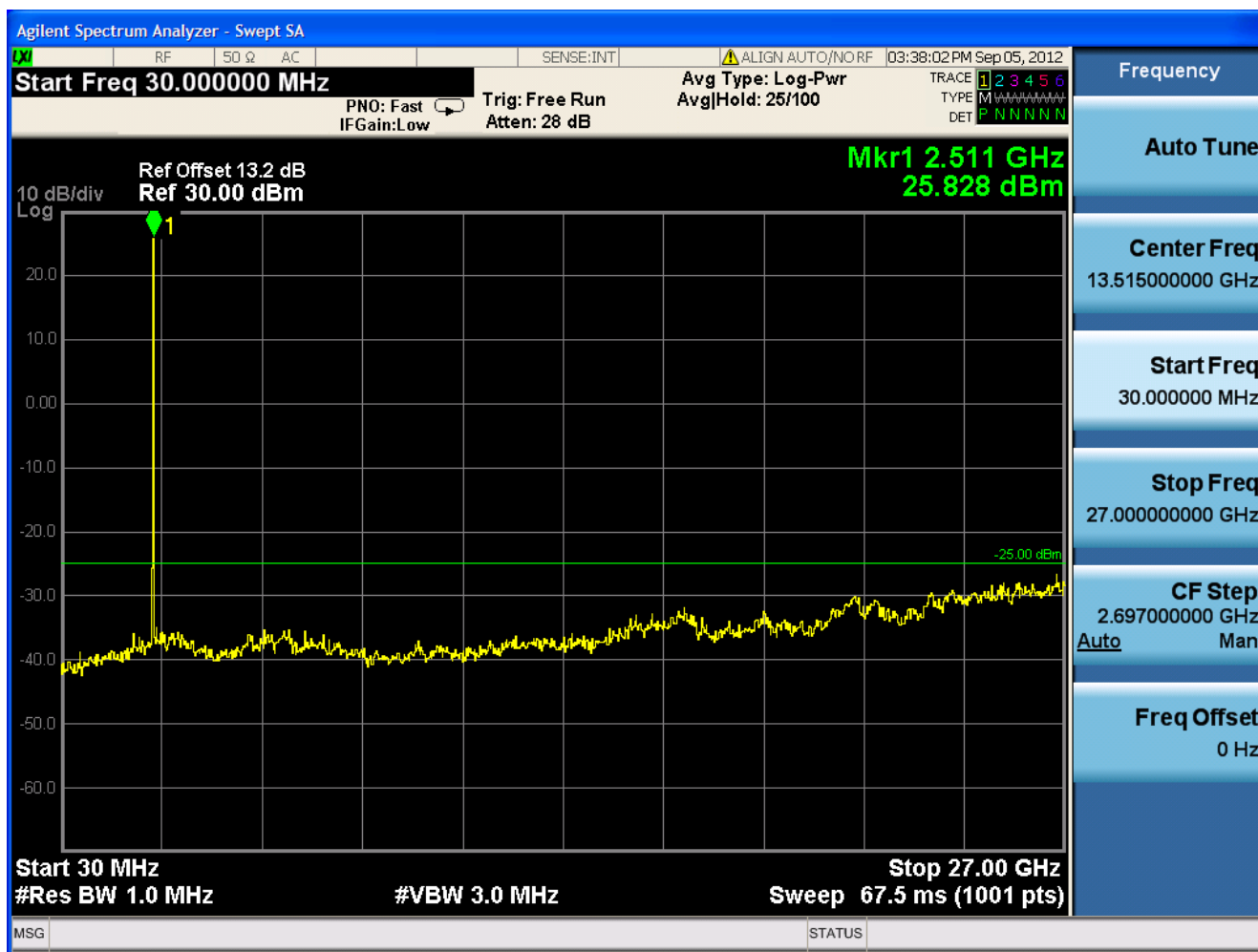
1.1.2 Channel Bandwidth = 10 MHz

1.1.2.1 Channel = B

1.1.2.1.1 QPSK/1RBs /RB #0



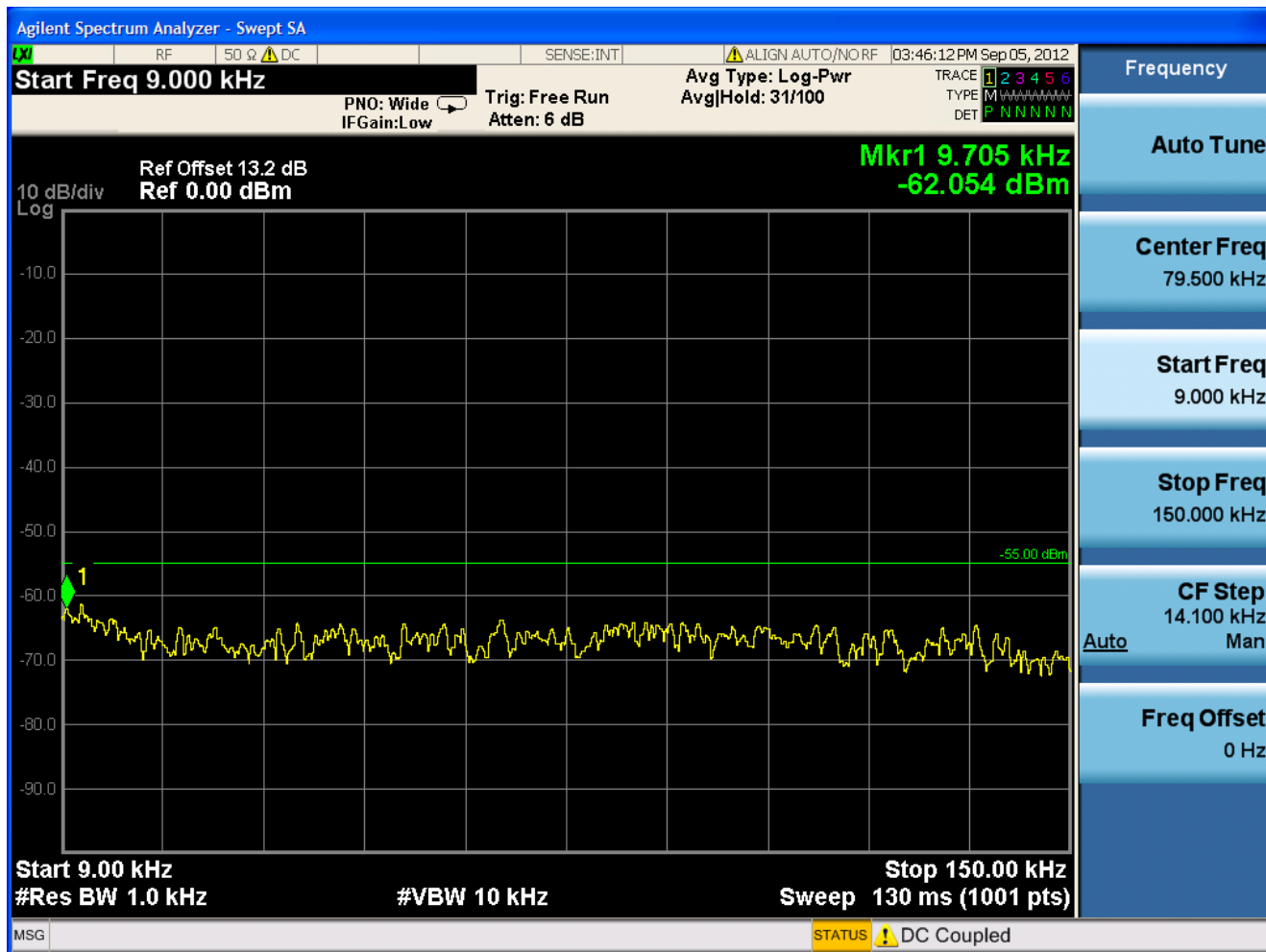


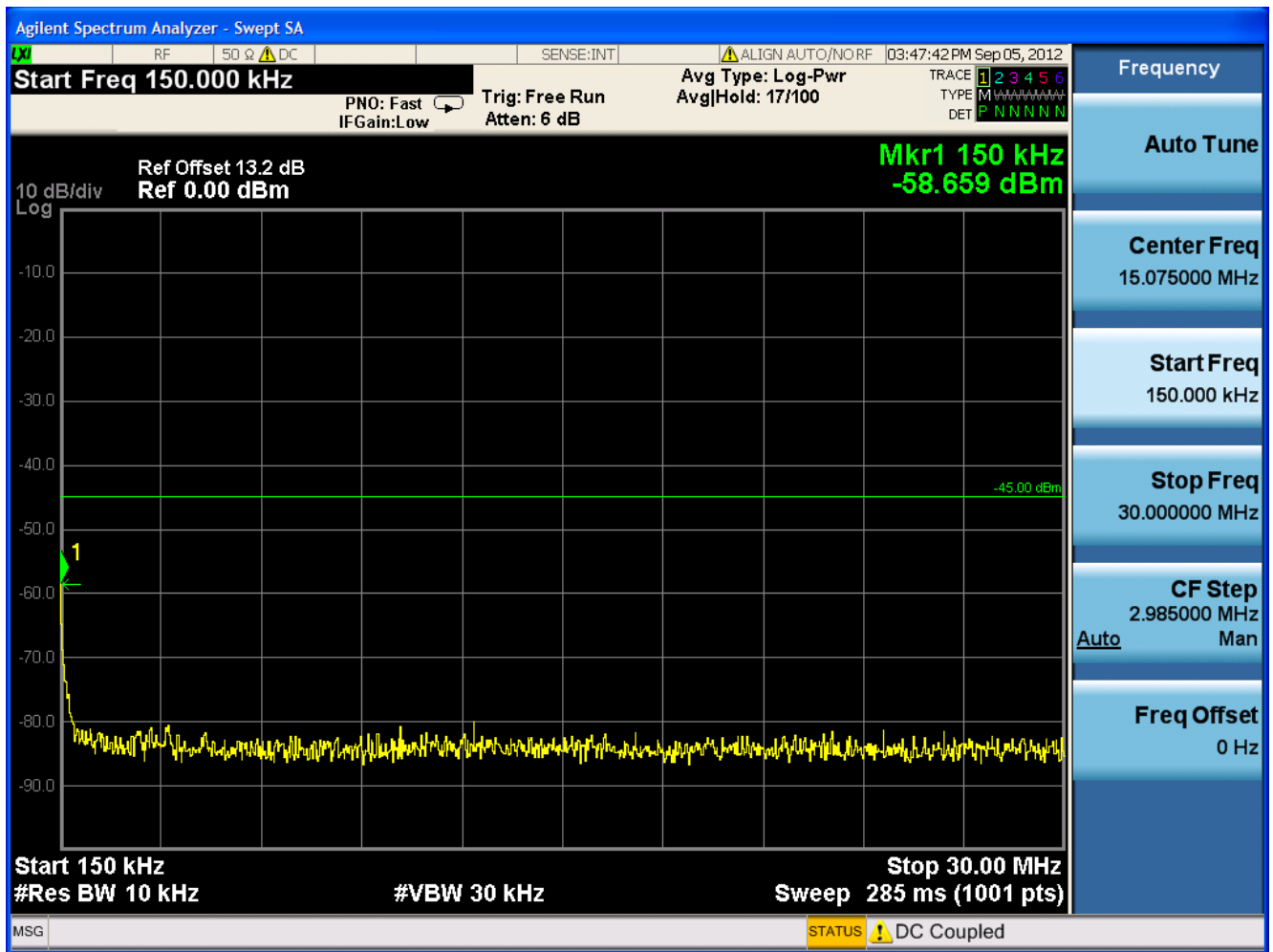




1.1.2.2 Channel = M

1.1.2.2.1 QPSK/1RBs /RB #0



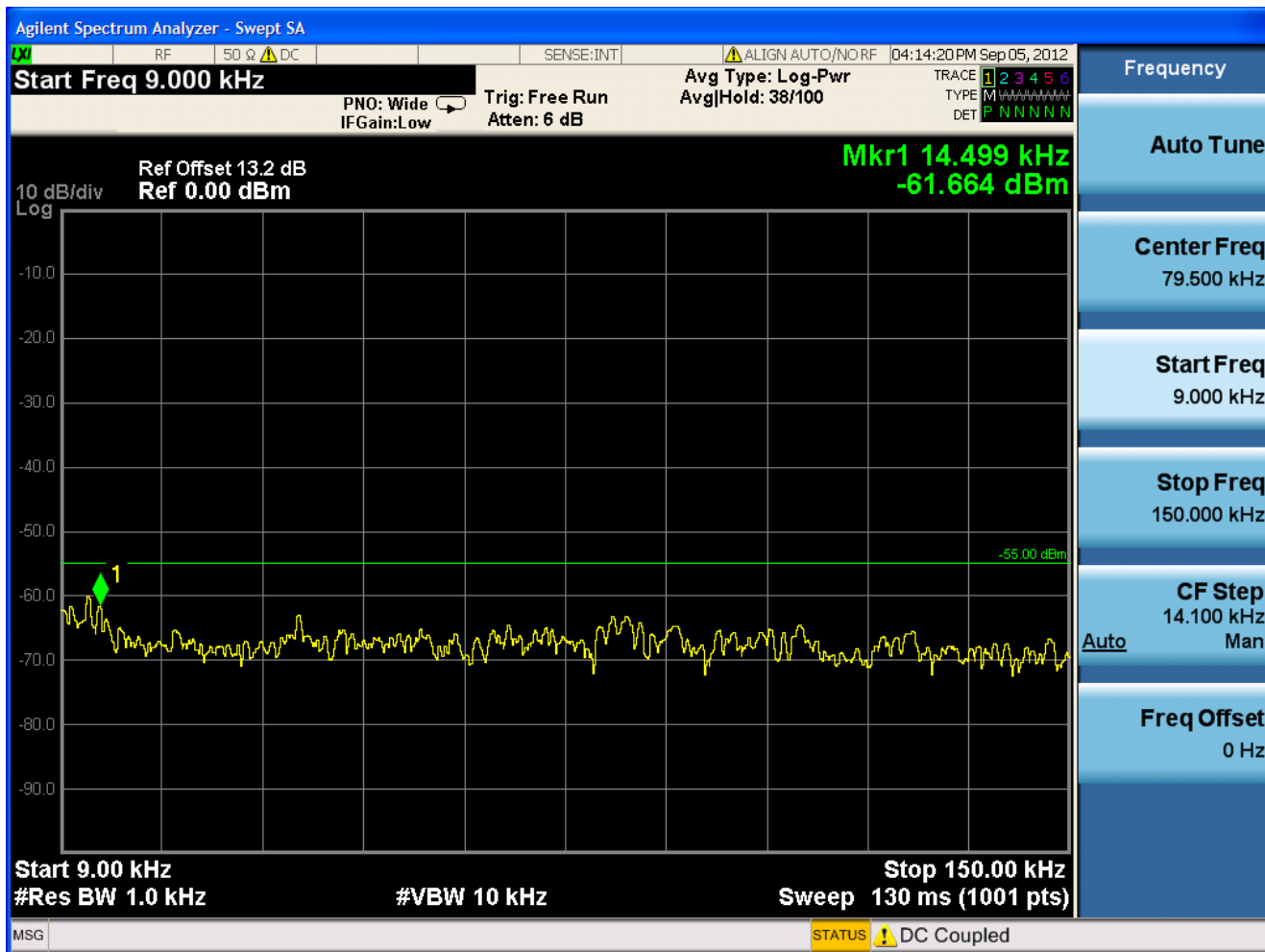


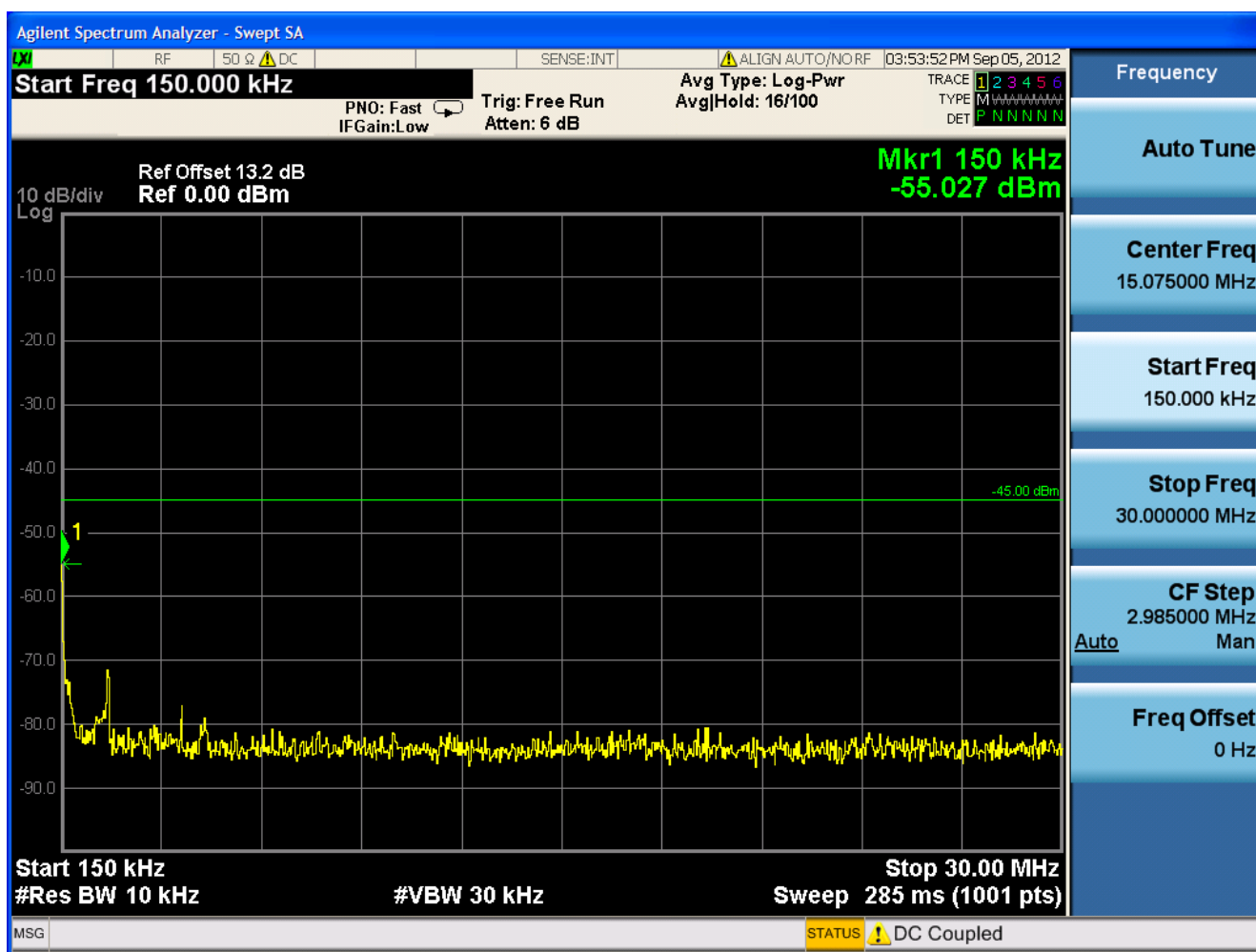


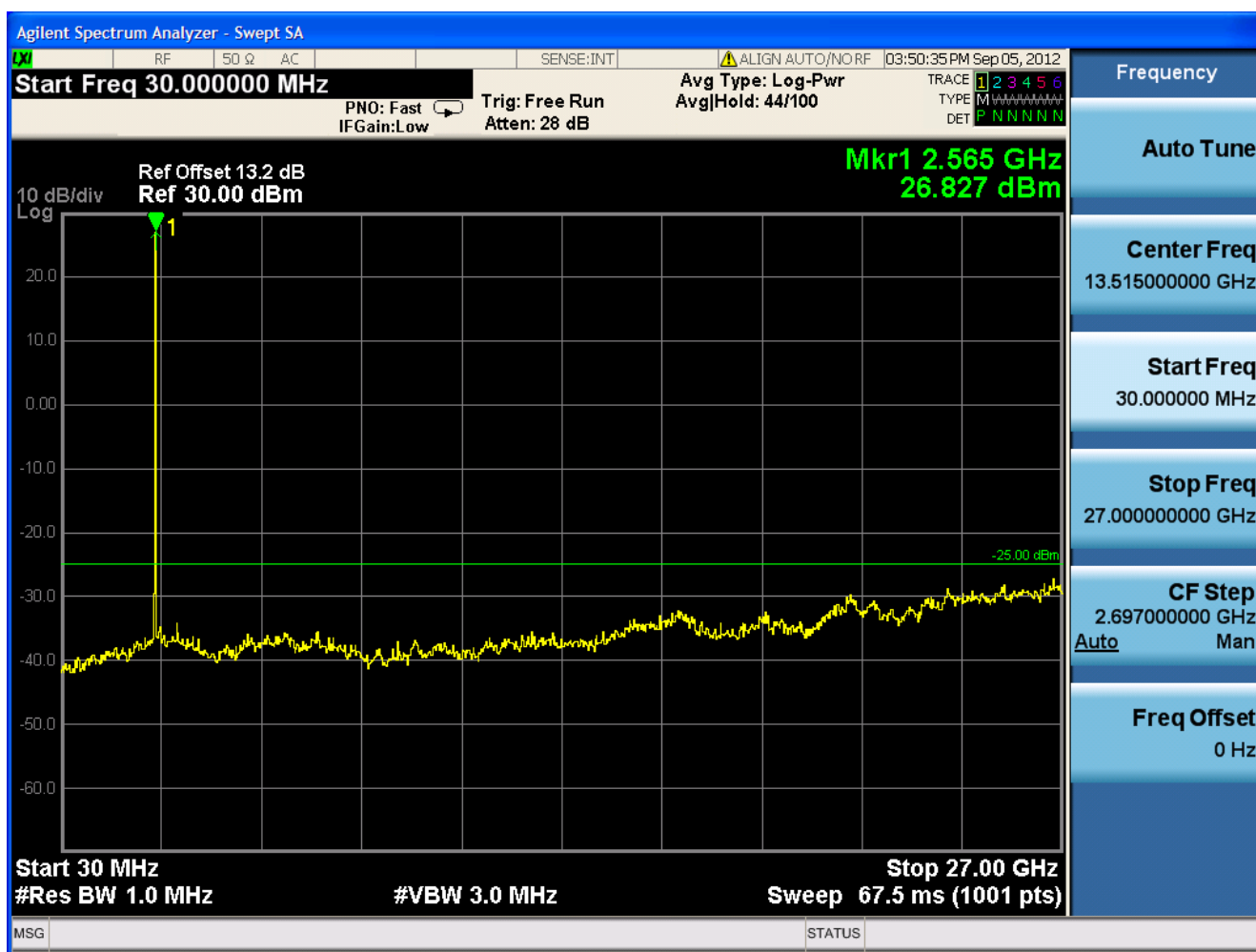


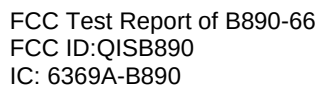
1.1.2.3 Channel = T

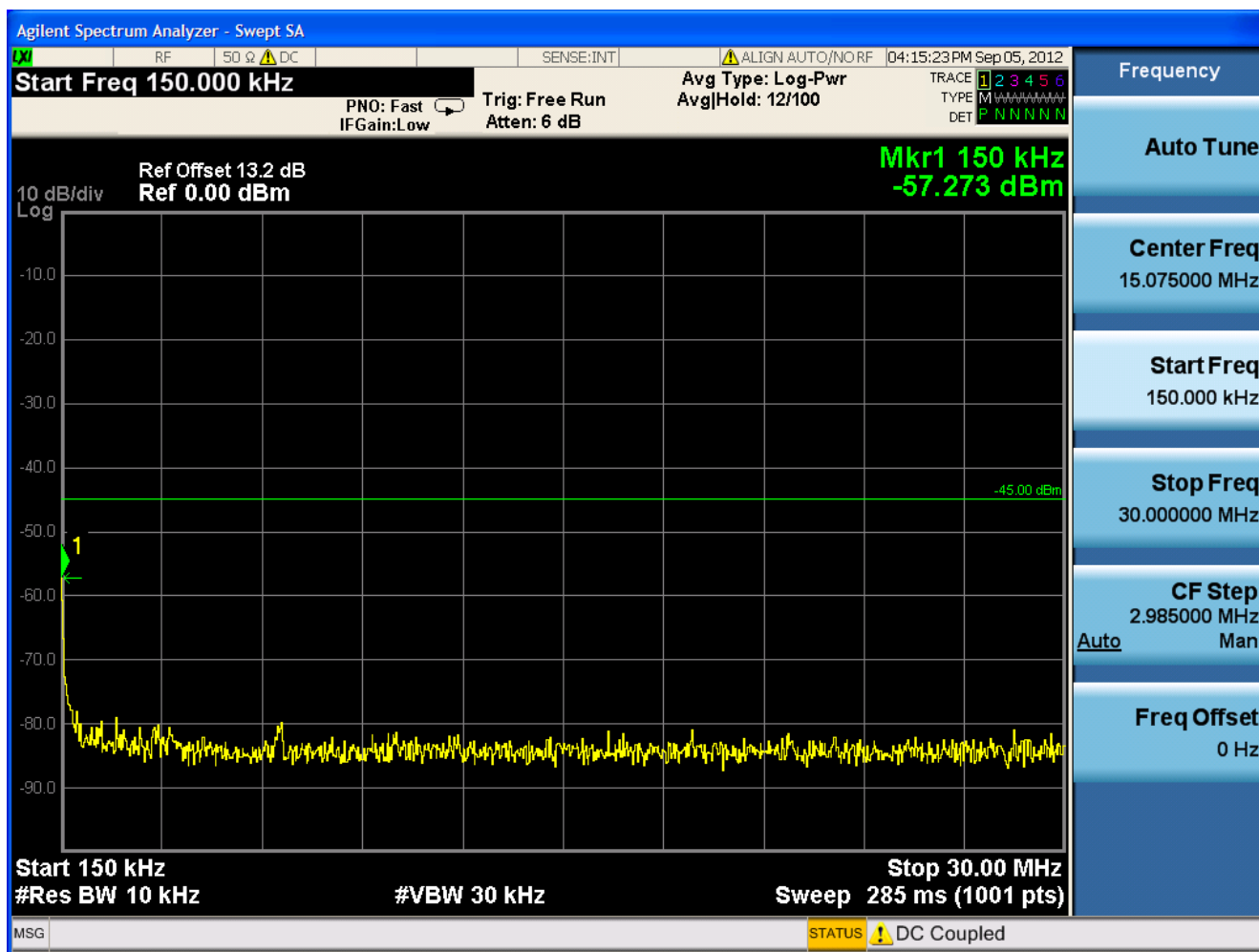
1.1.2.3.1 QPSK/1RBs /RB #0

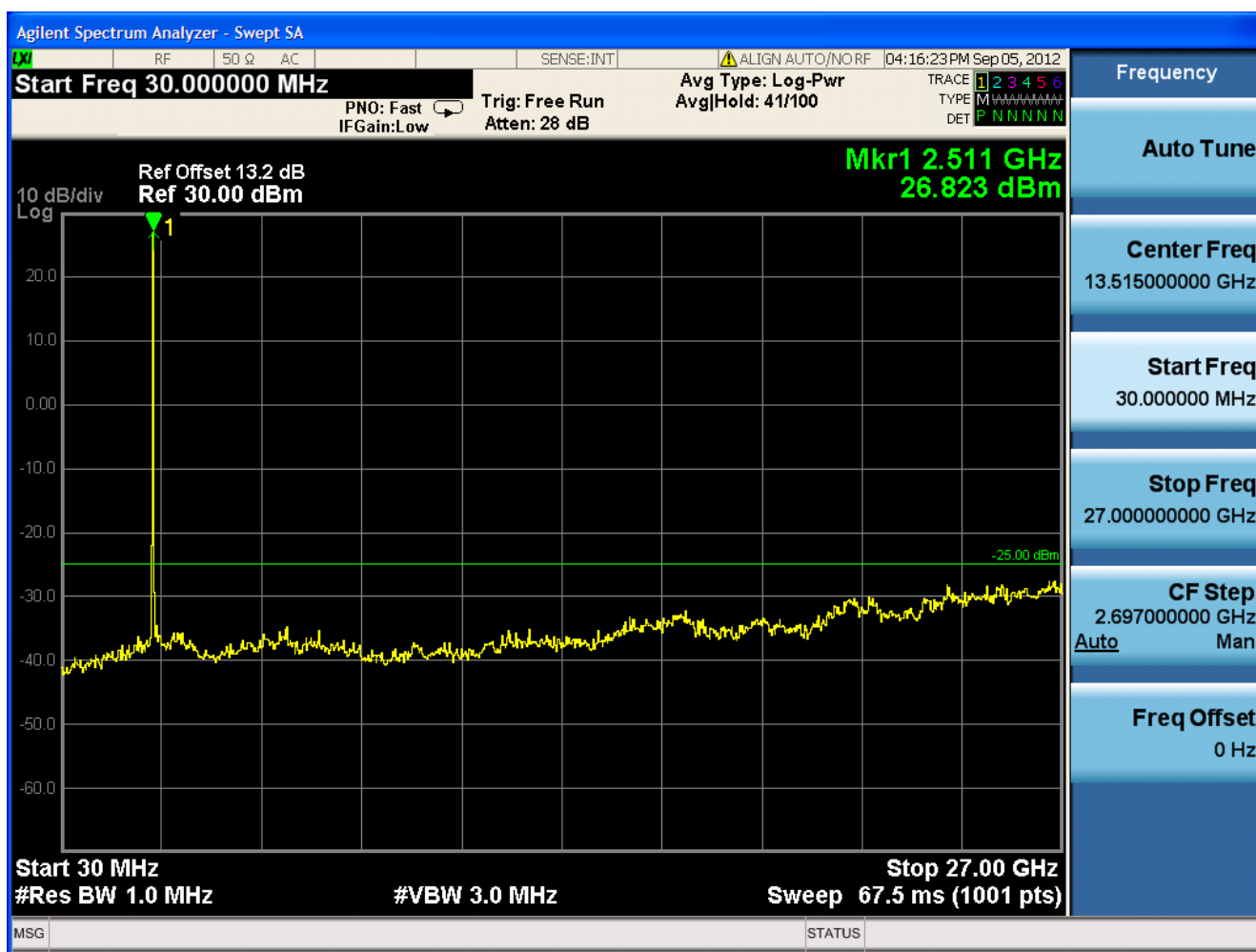








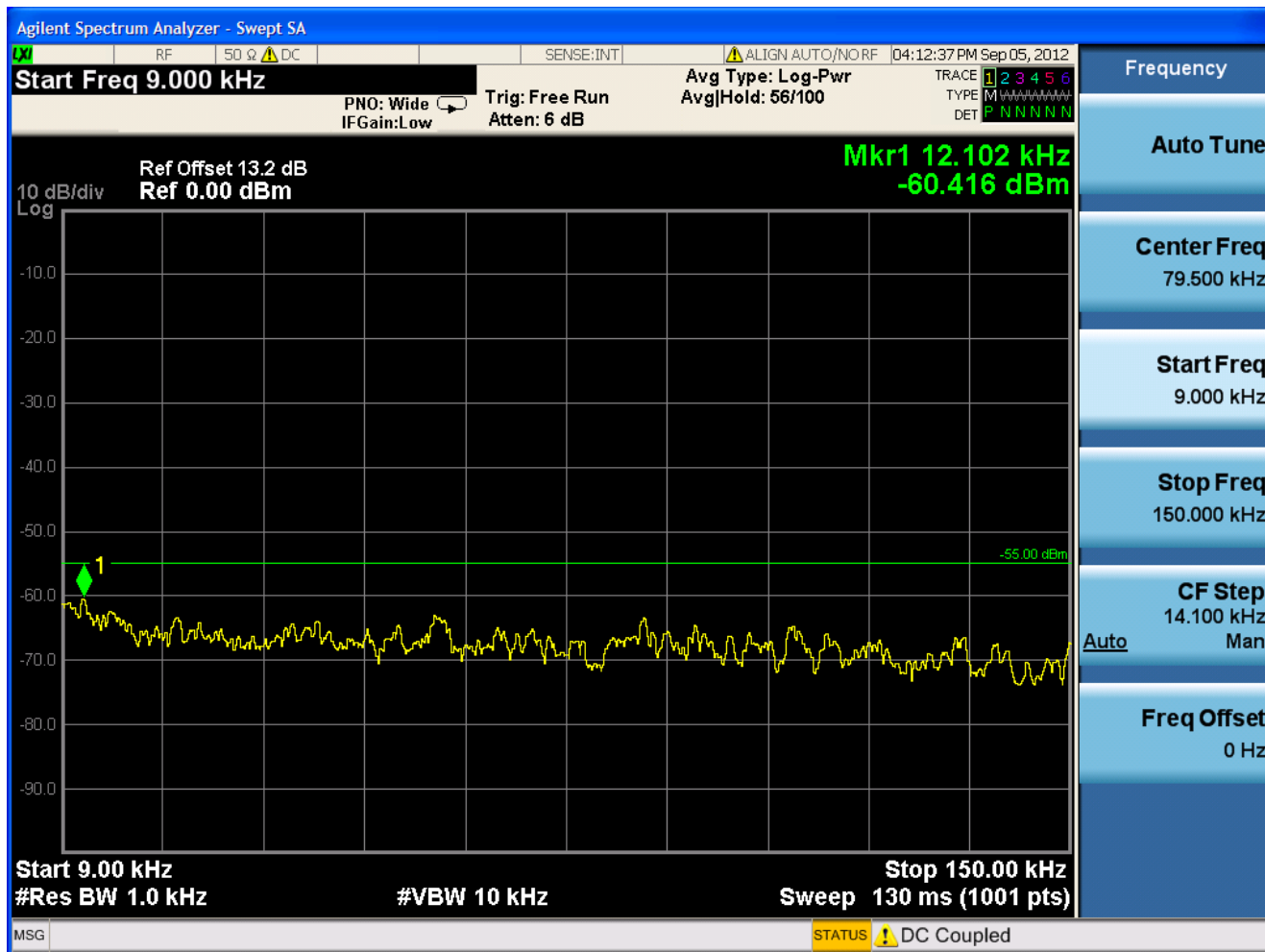


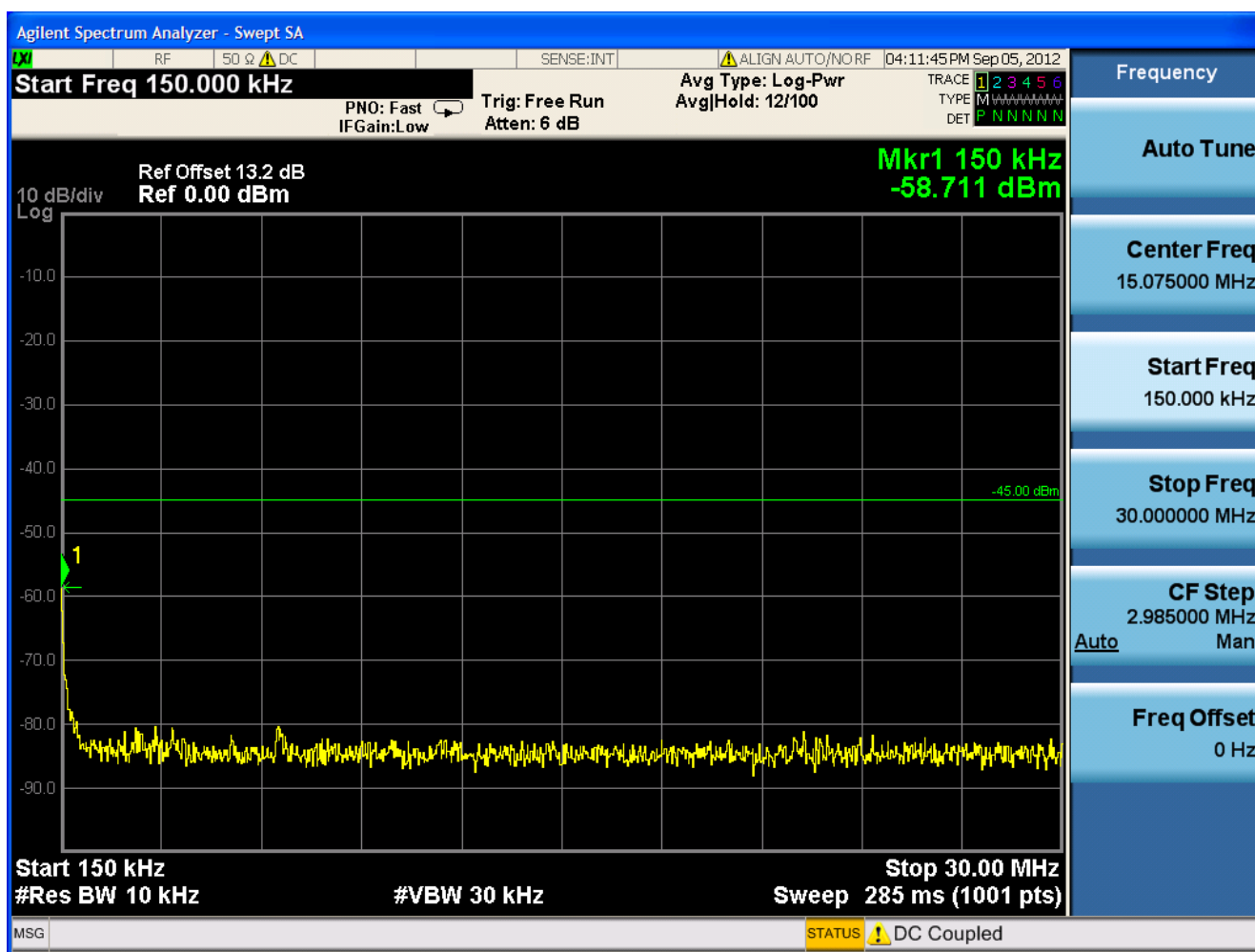




1.1.3.2 Channel = M

1.1.3.2.1 QPSK/1RBs /RB #0



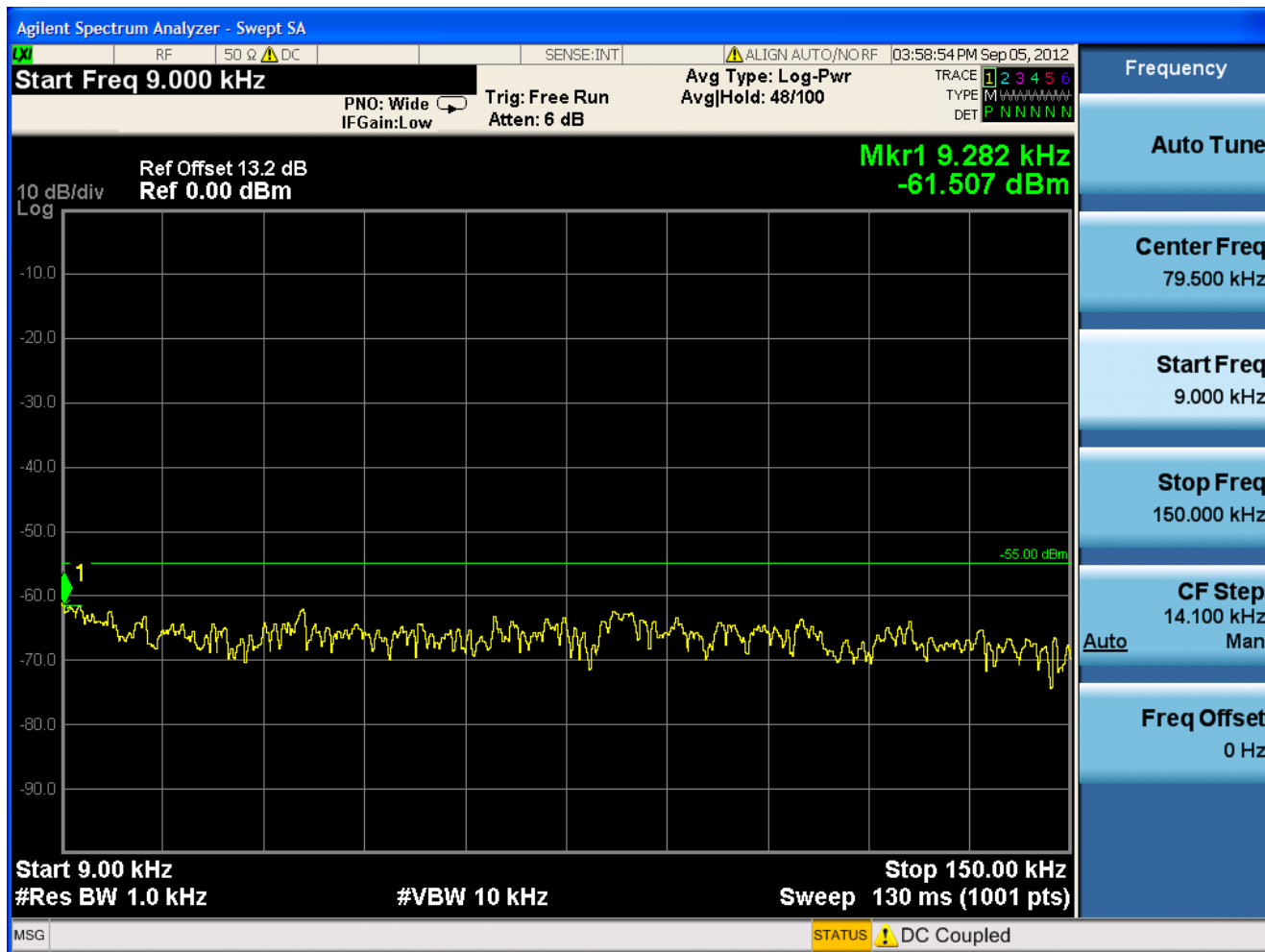


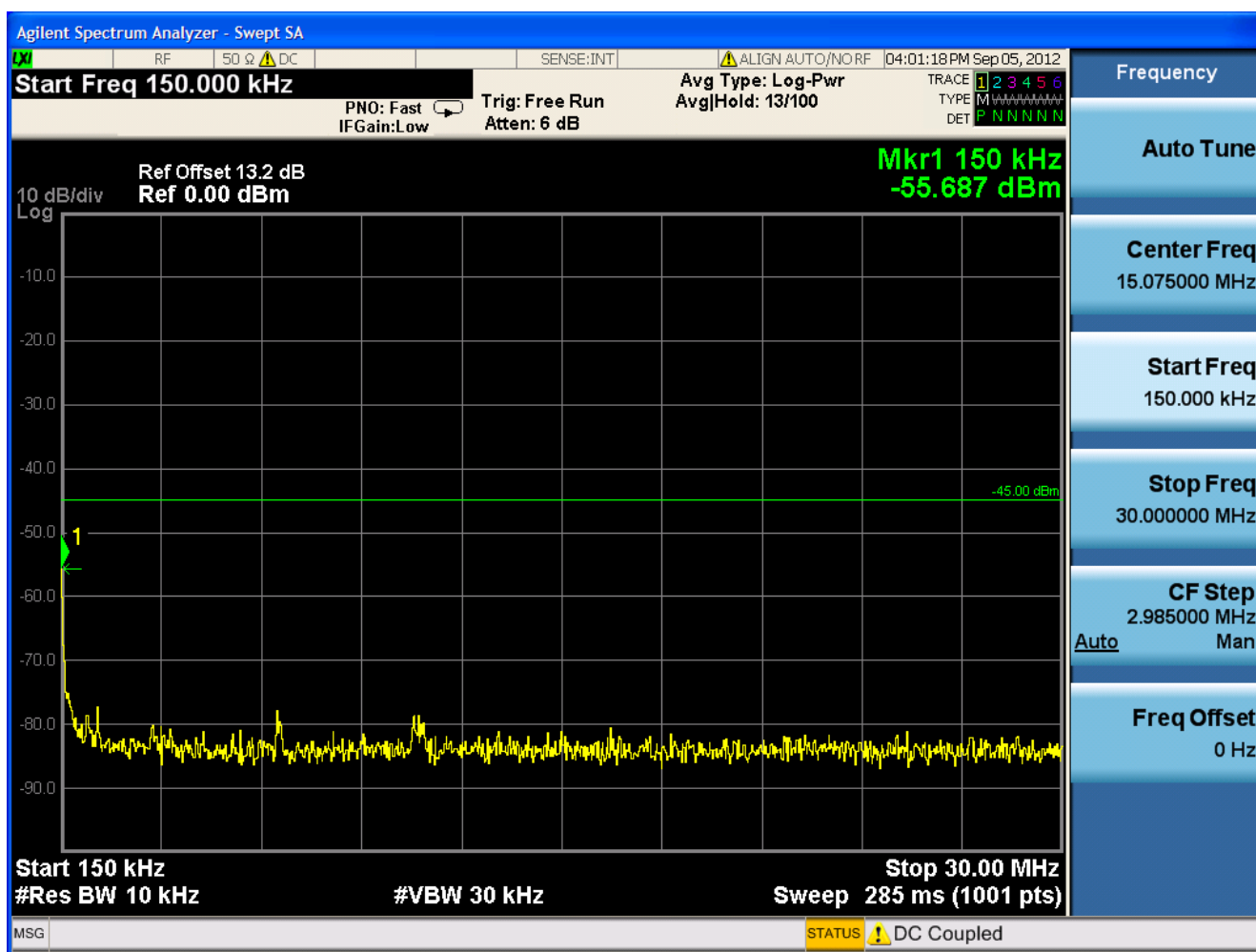


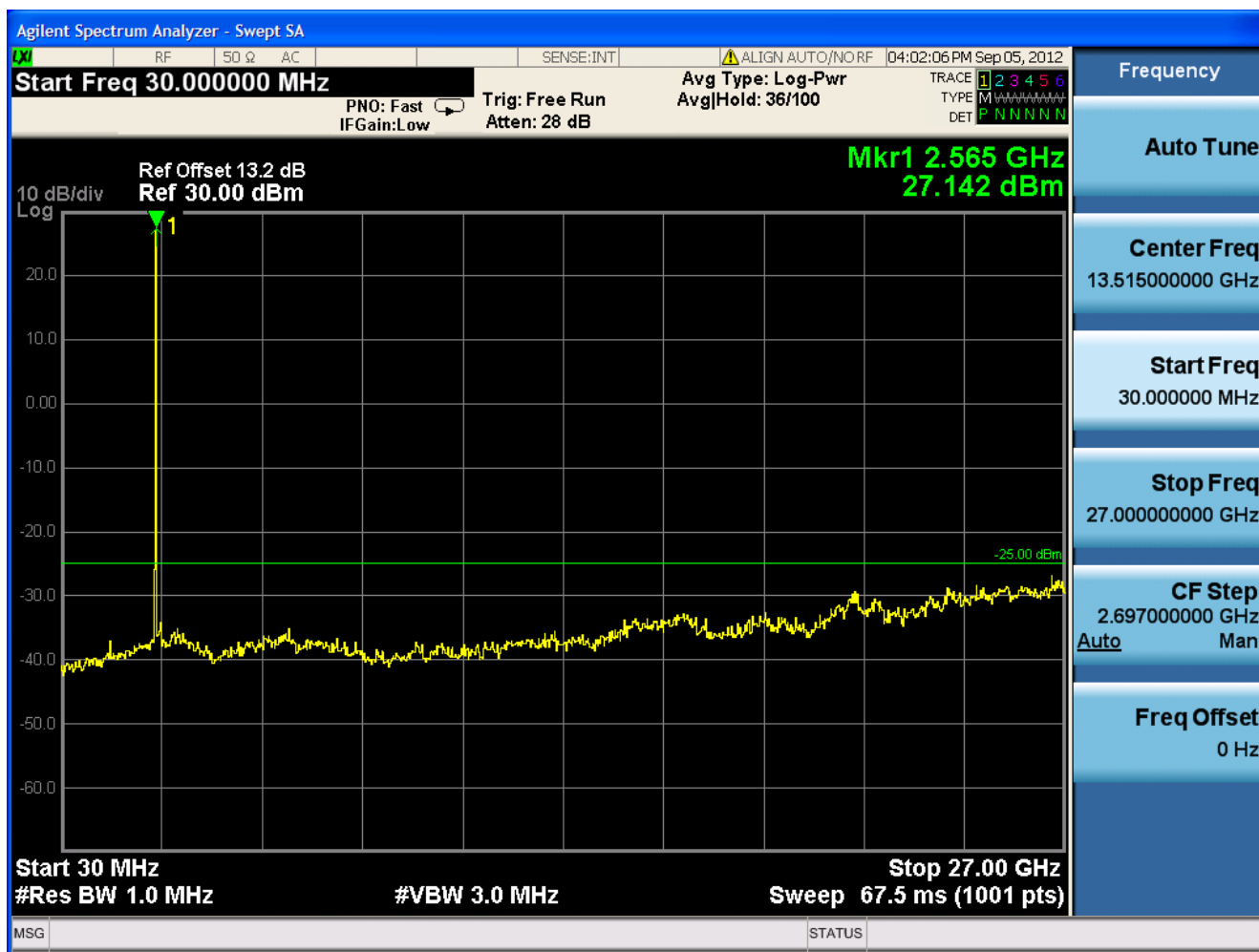


1.1.3.3 Channel = T

1.1.3.3.1 QPSK/1RBs /RB #0





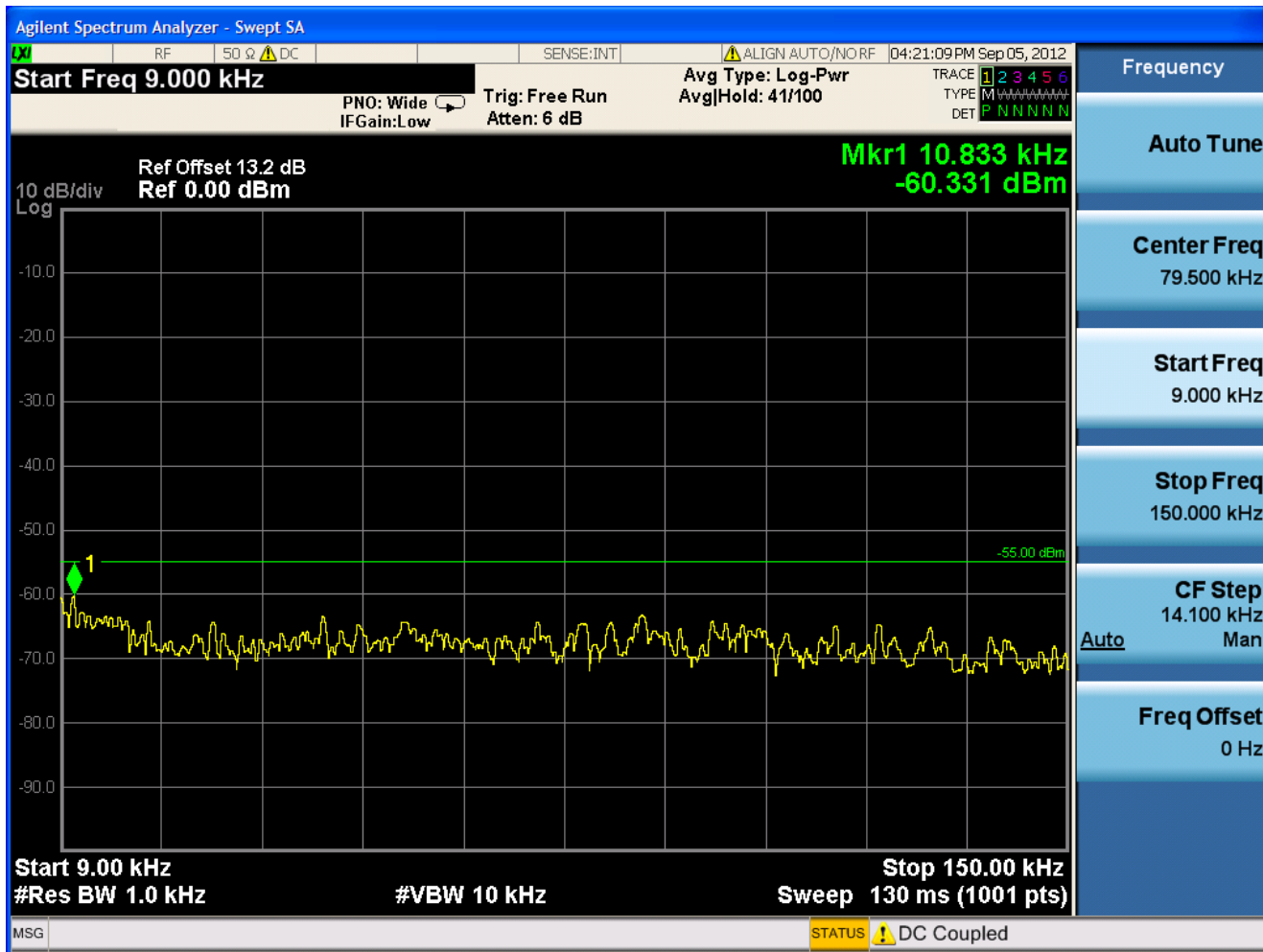


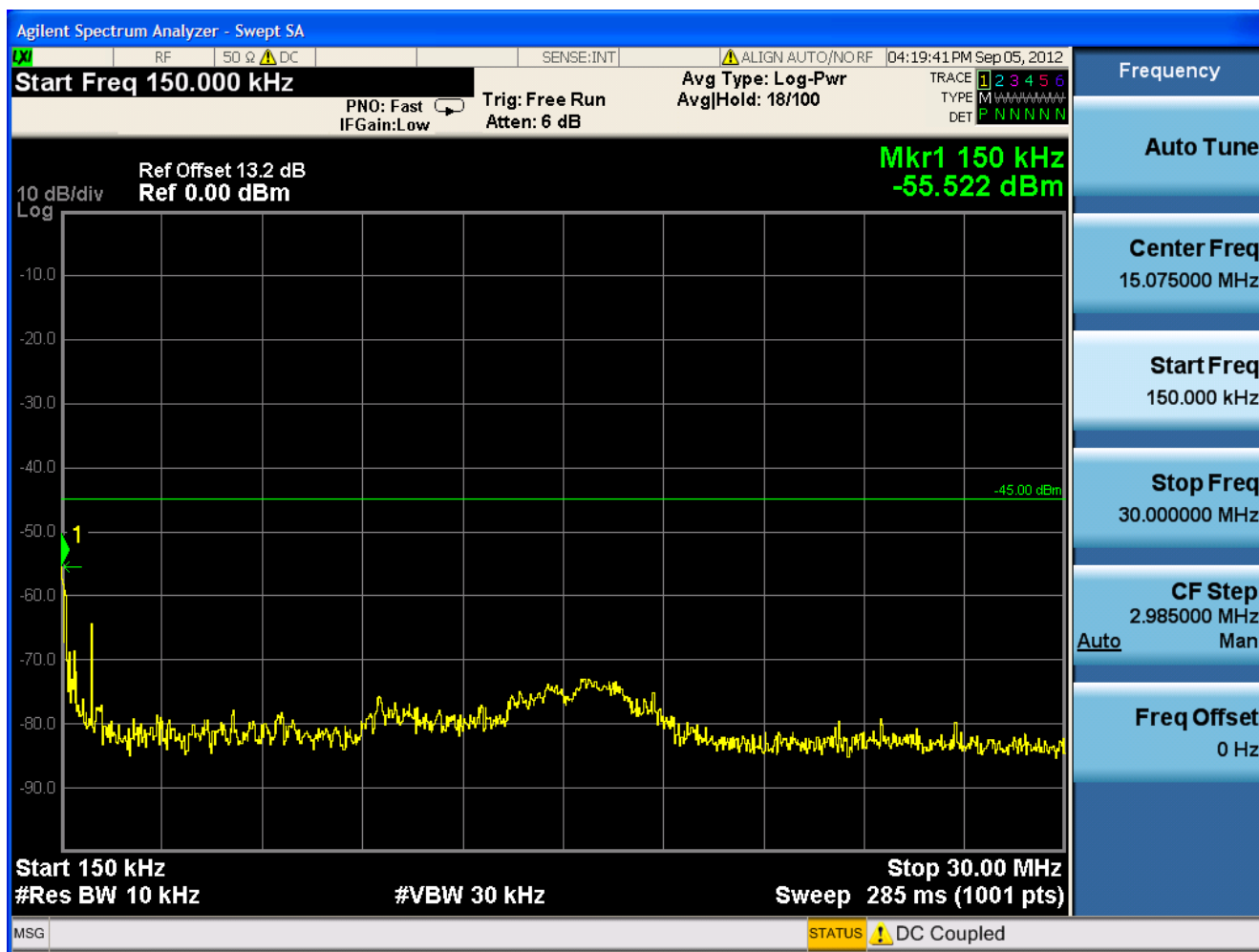


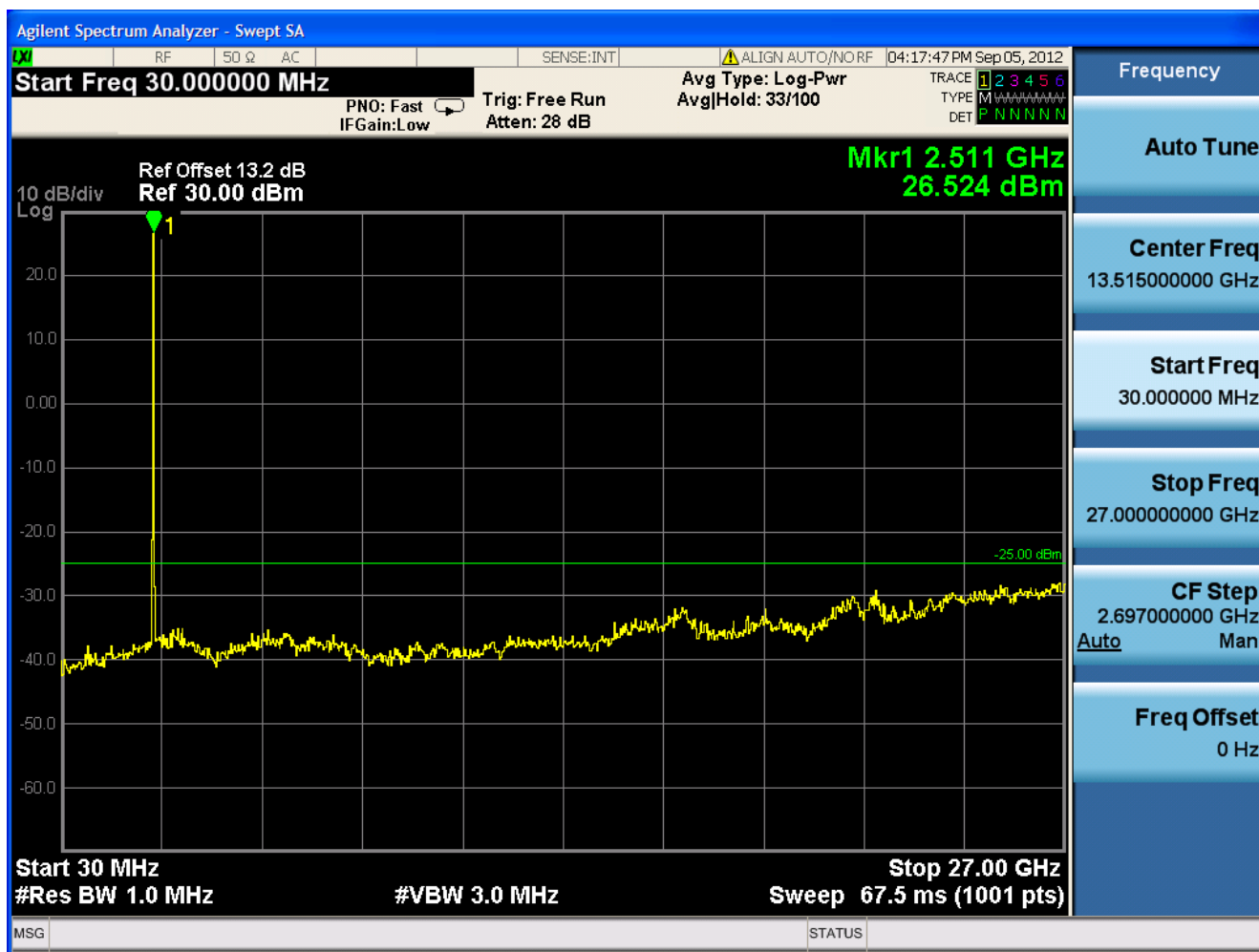
1.1.4 Channel Bandwidth = 20 MHz

1.1.4.1 Channel = B

1.1.4.1.1 QPSK/1RBs /RB #0



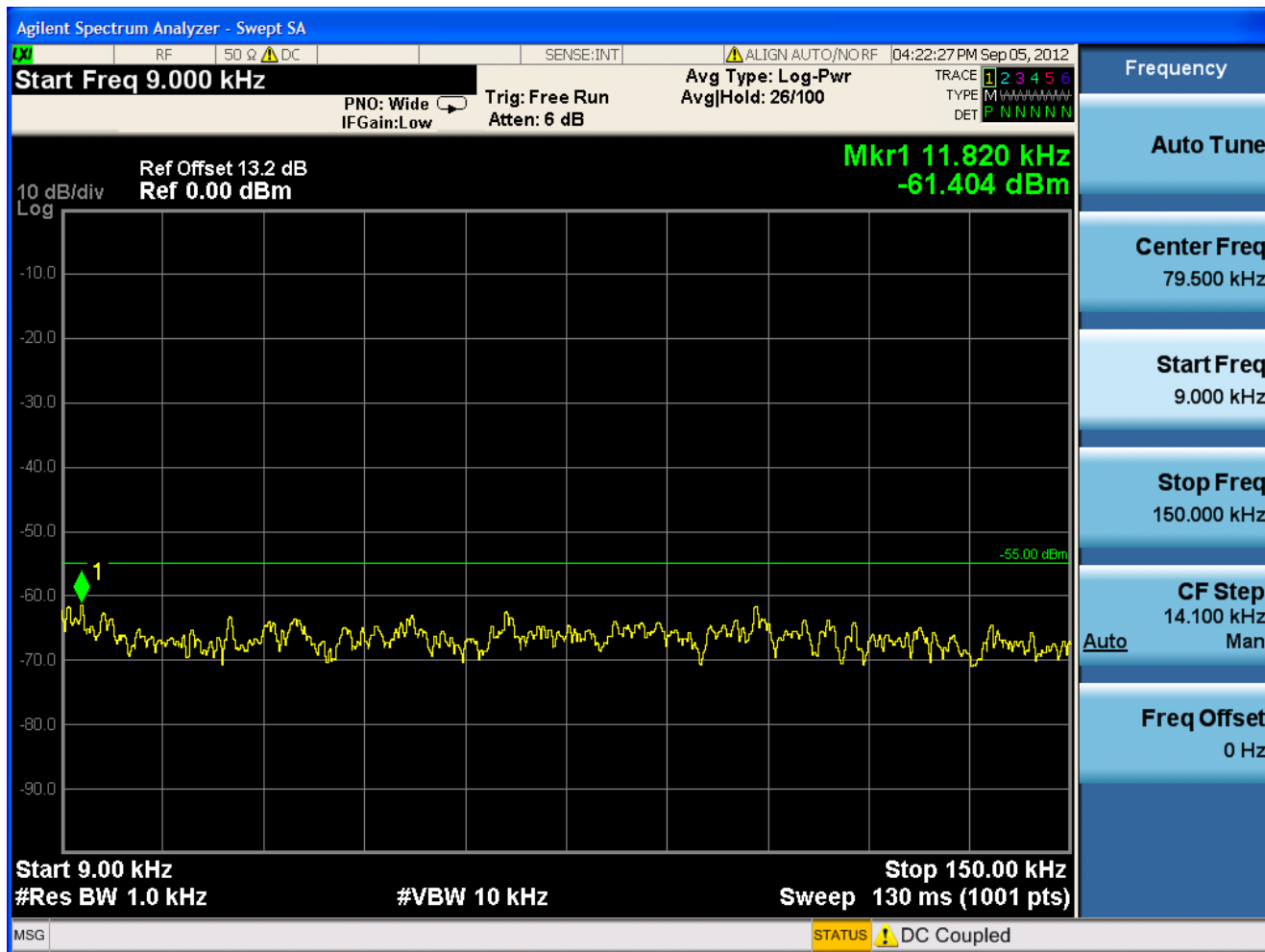


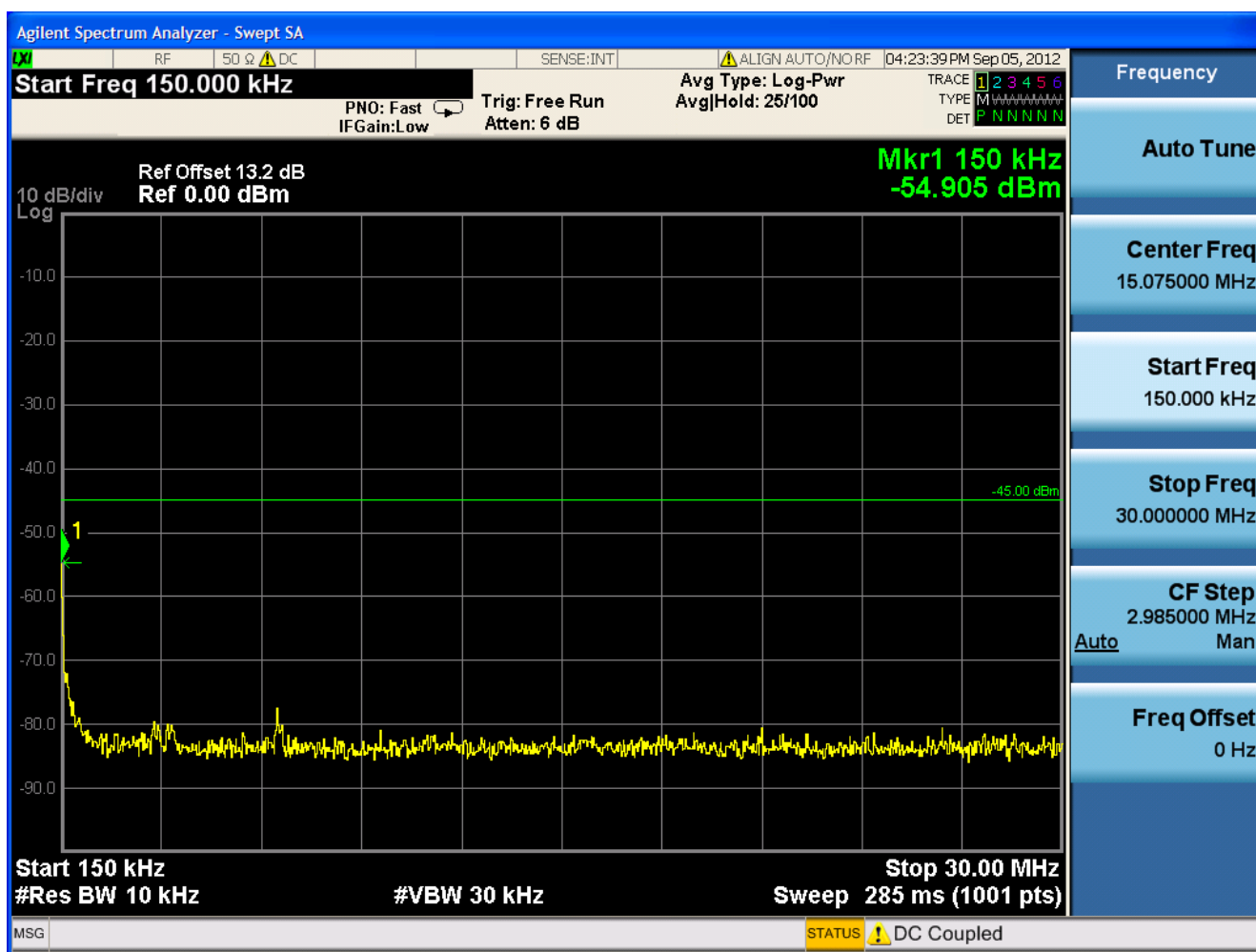


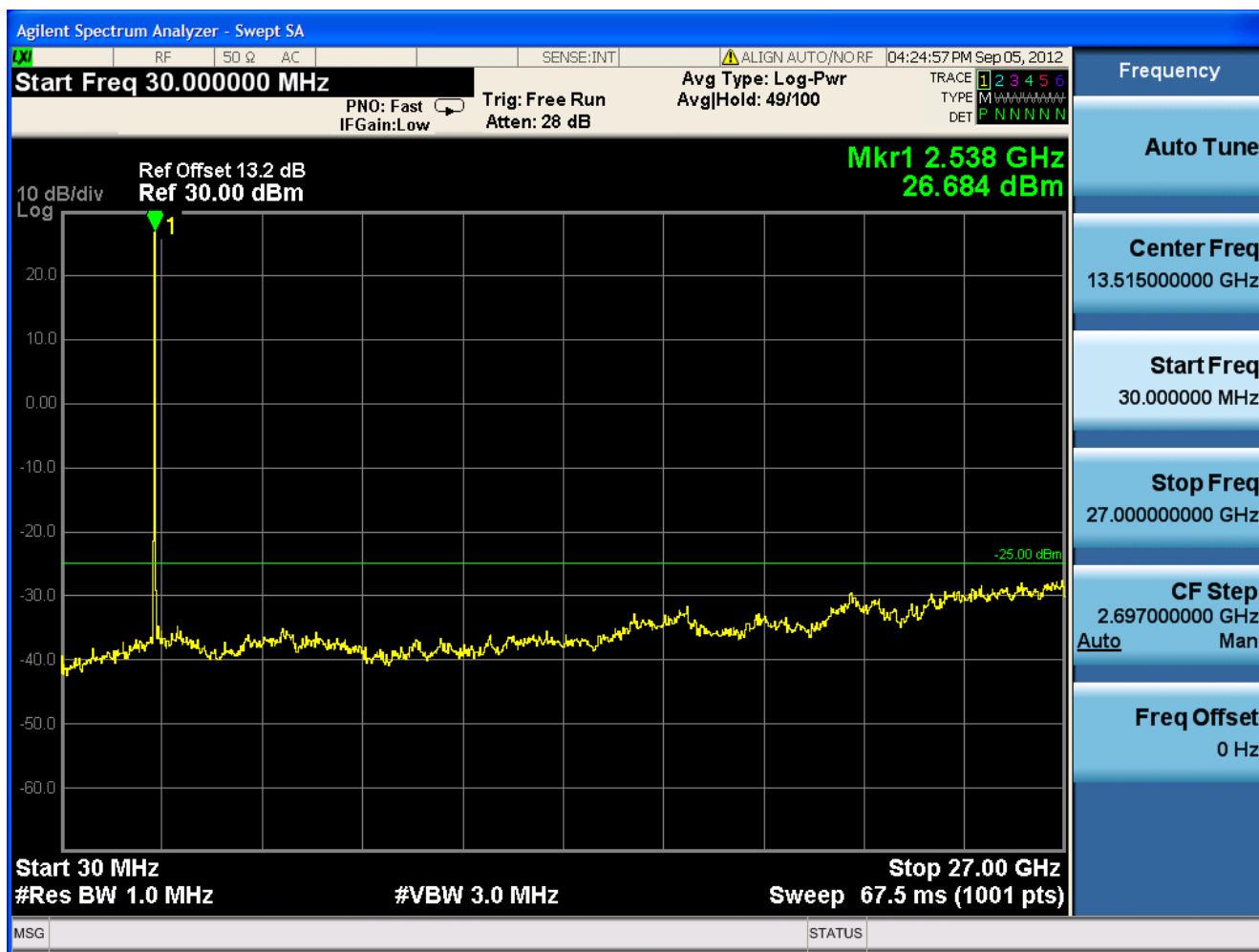


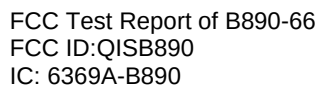
1.1.4.2 Channel = M

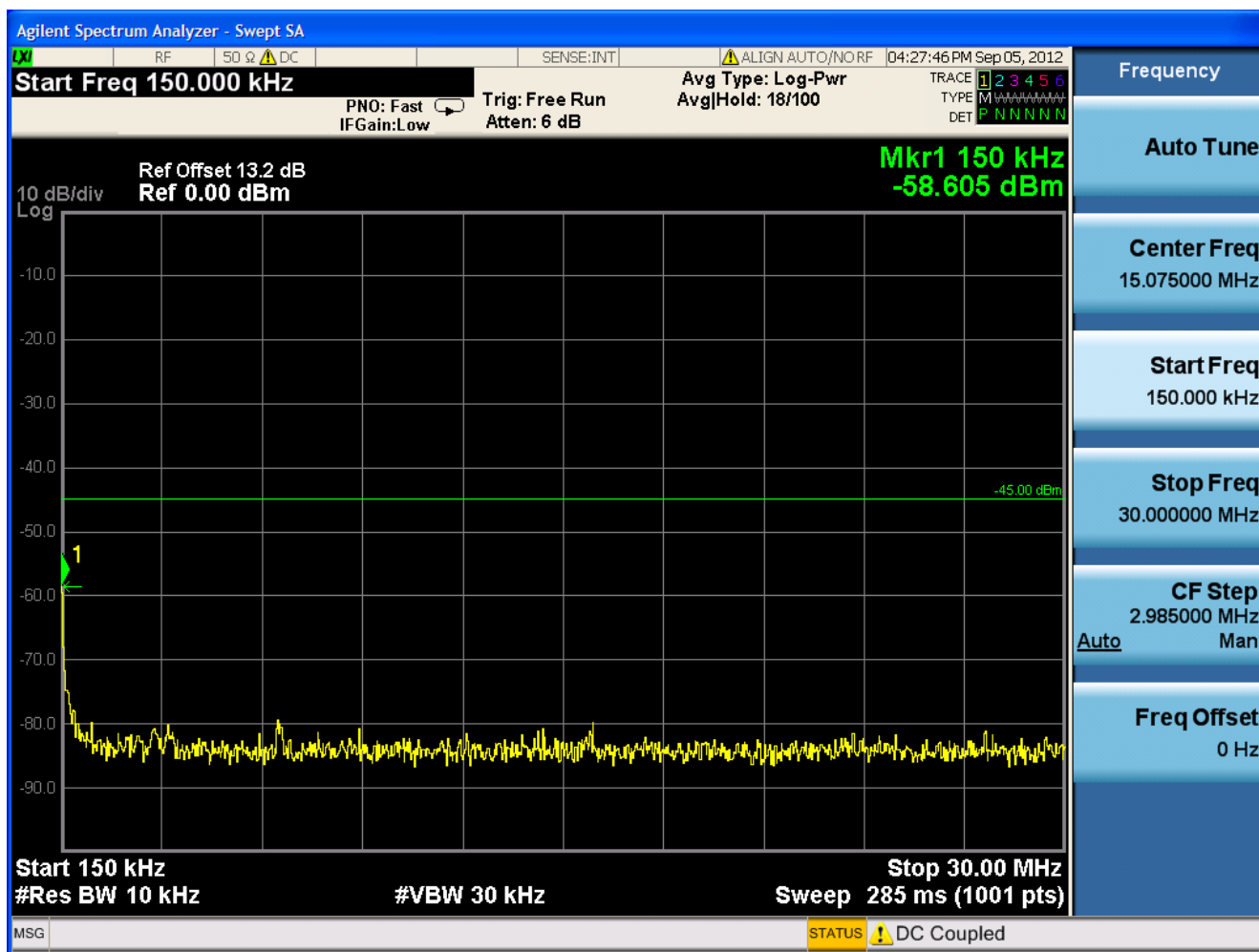
1.1.4.2.1 QPSK/1RBs /RB #0













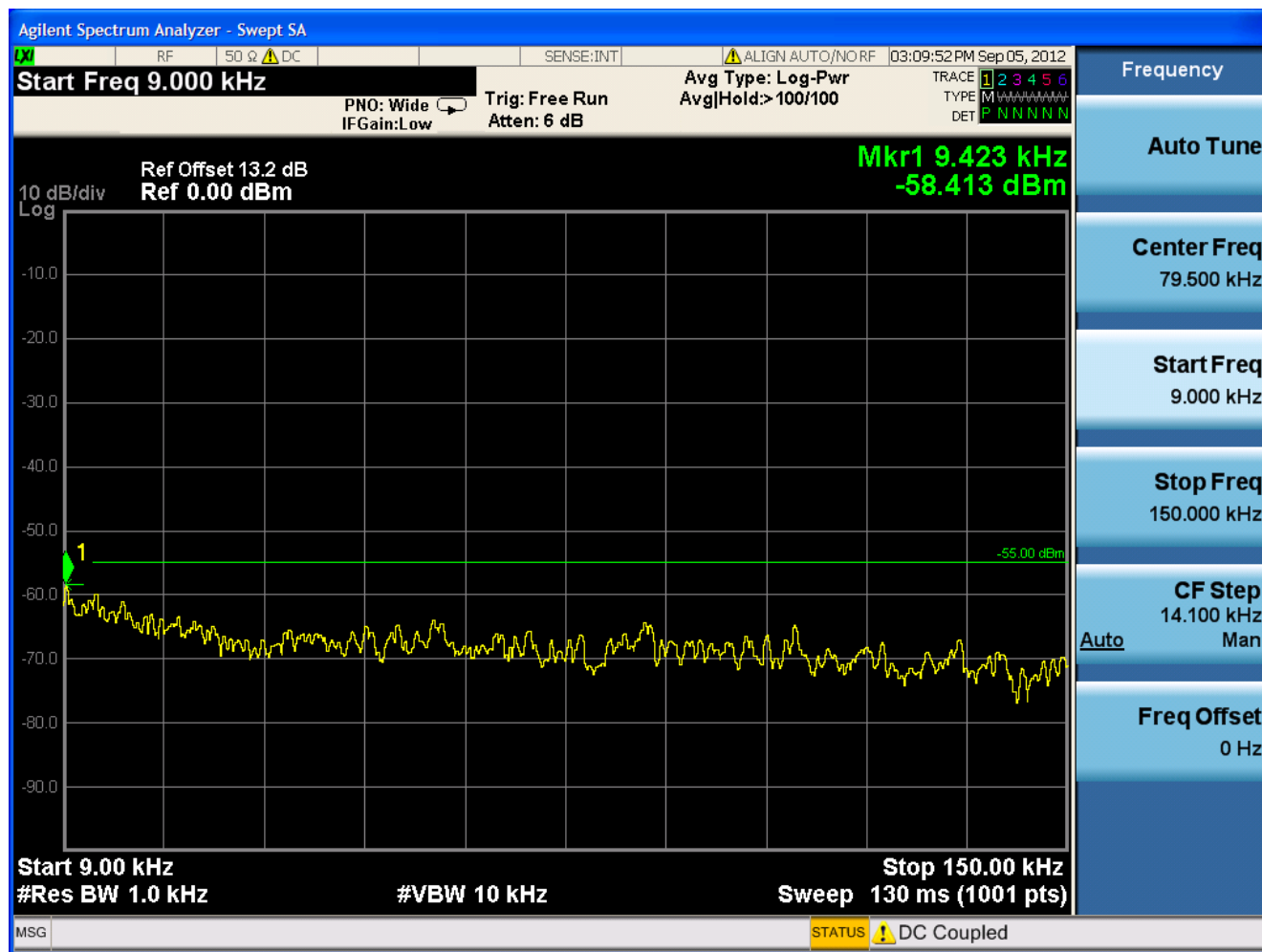


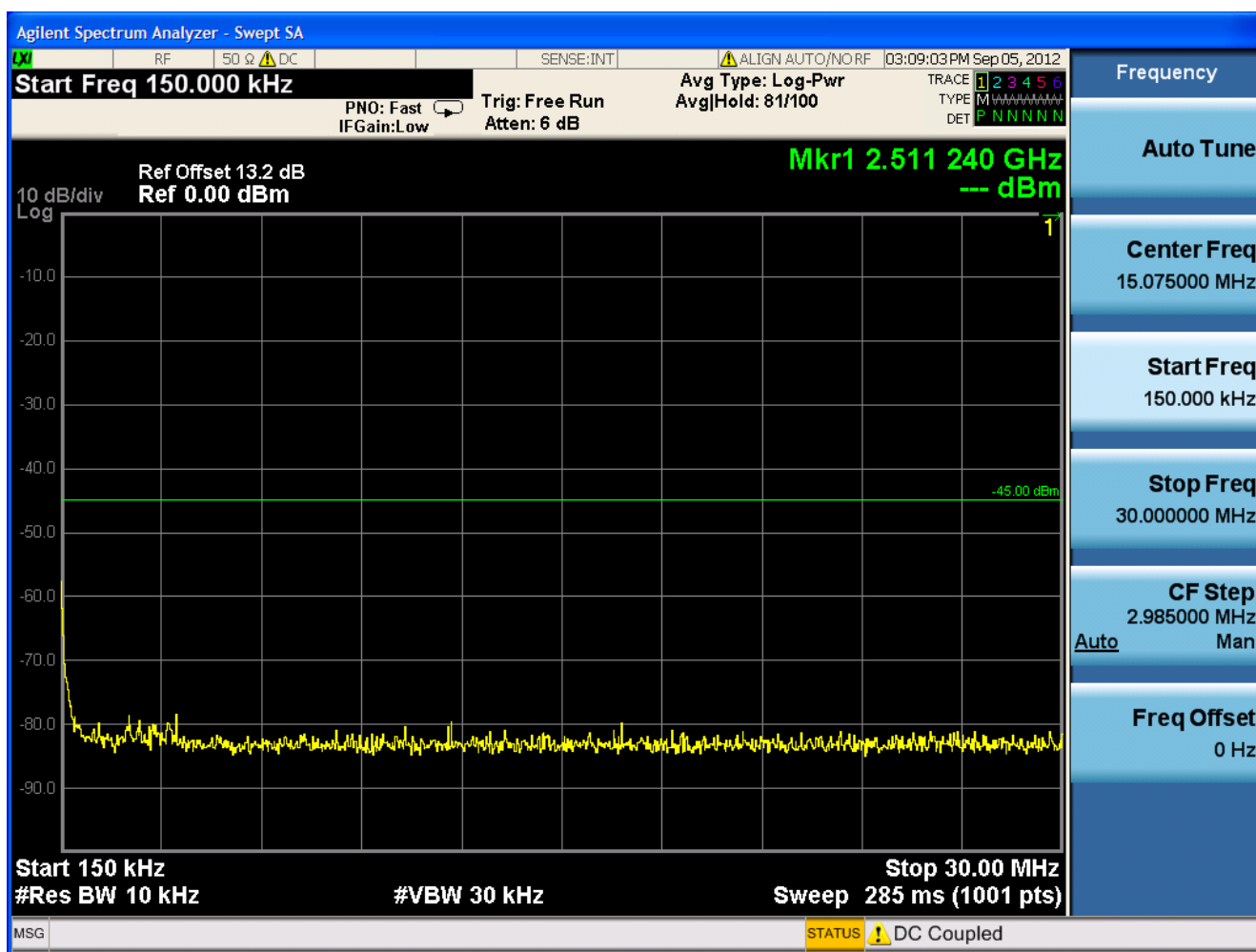
1.2 Test Mode=TM2

1.2.1 Channel Bandwidth = 5 MHz

1.2.1.1 Channel = B

1.2.1.1.1 16QAM/1RBs /RB #0



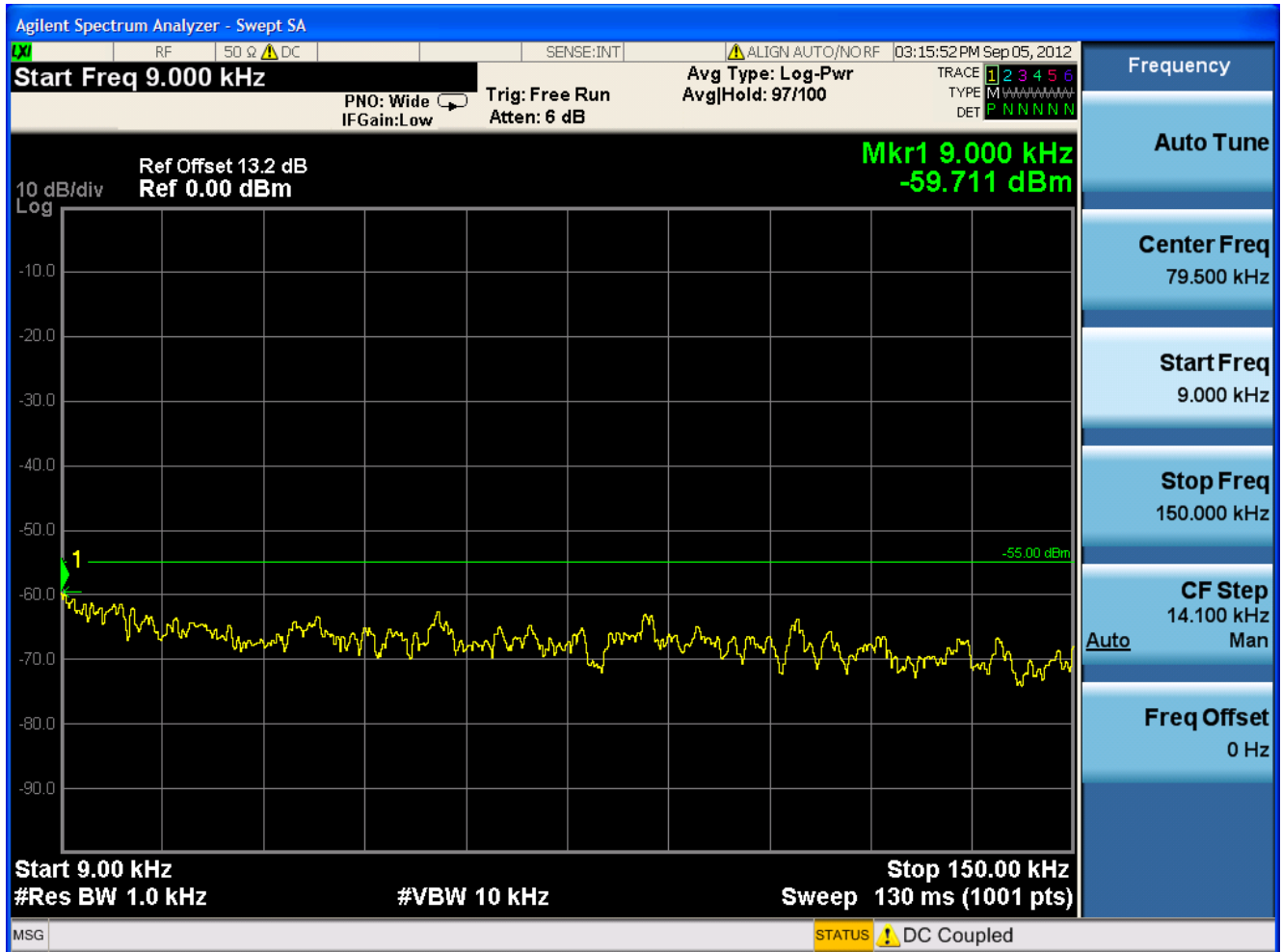


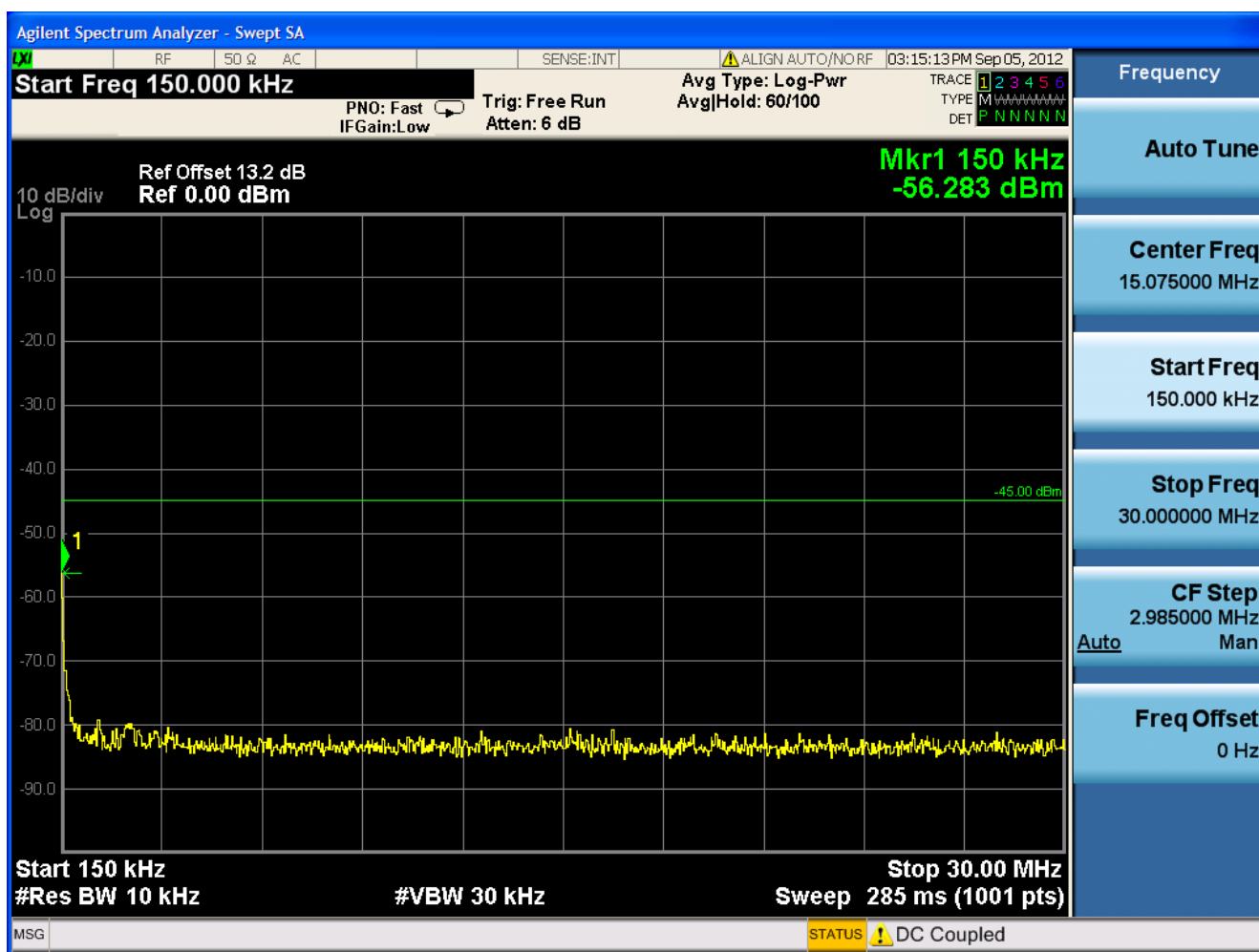


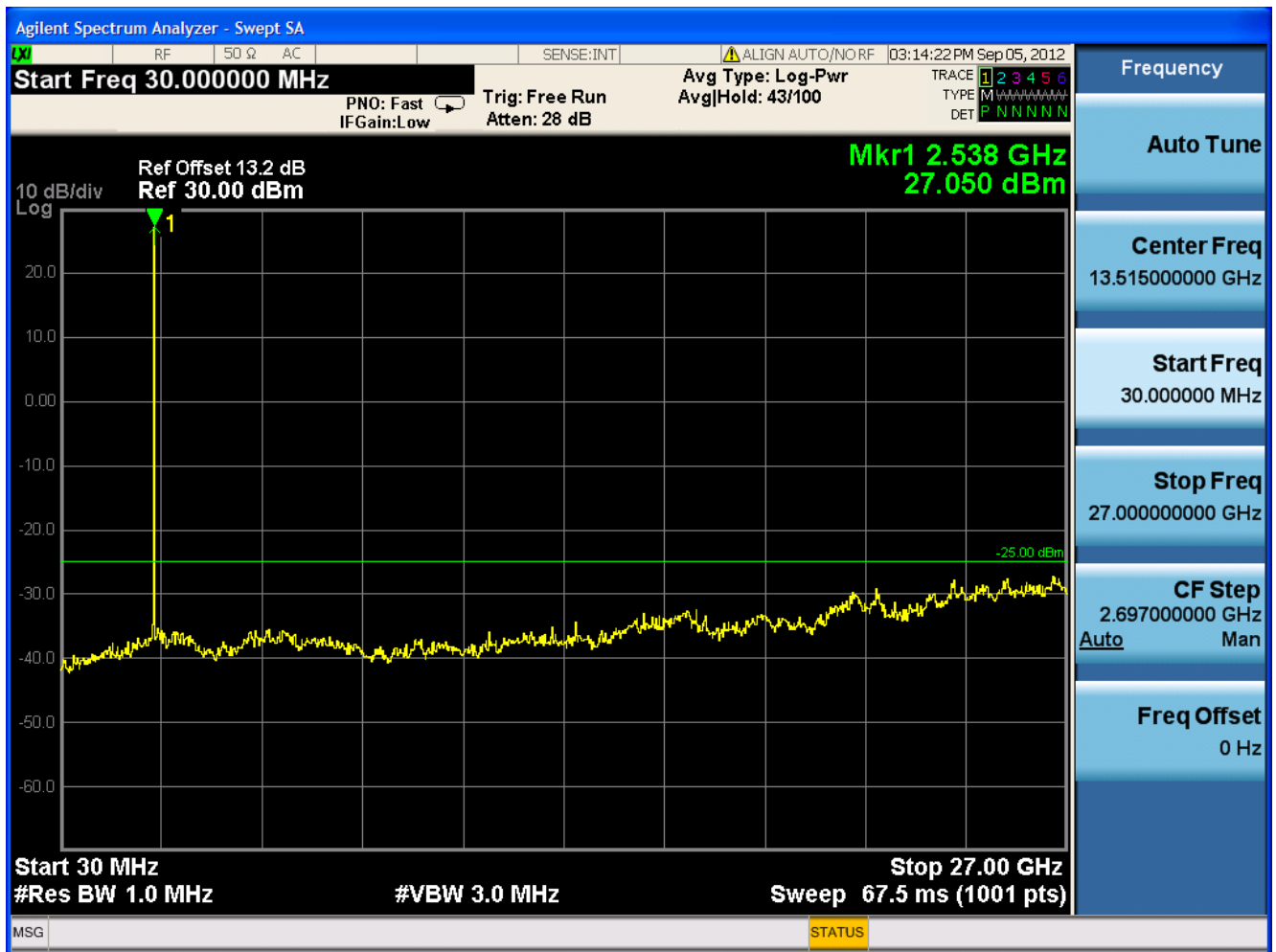


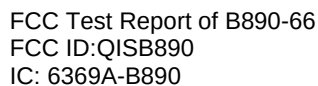
1.2.1.2 Channel = M

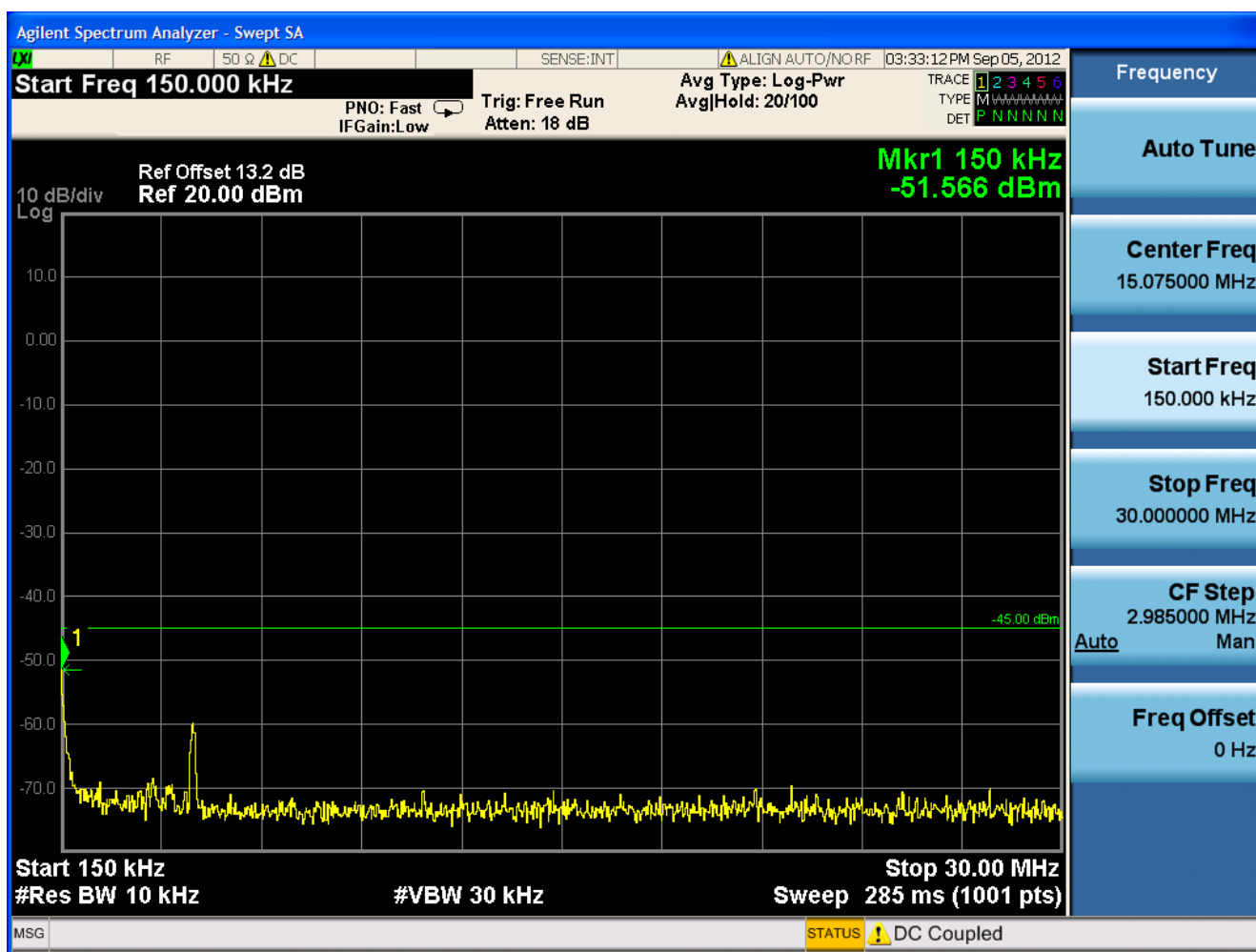
1.2.1.2.1 16QAM/1RBs /RB #0

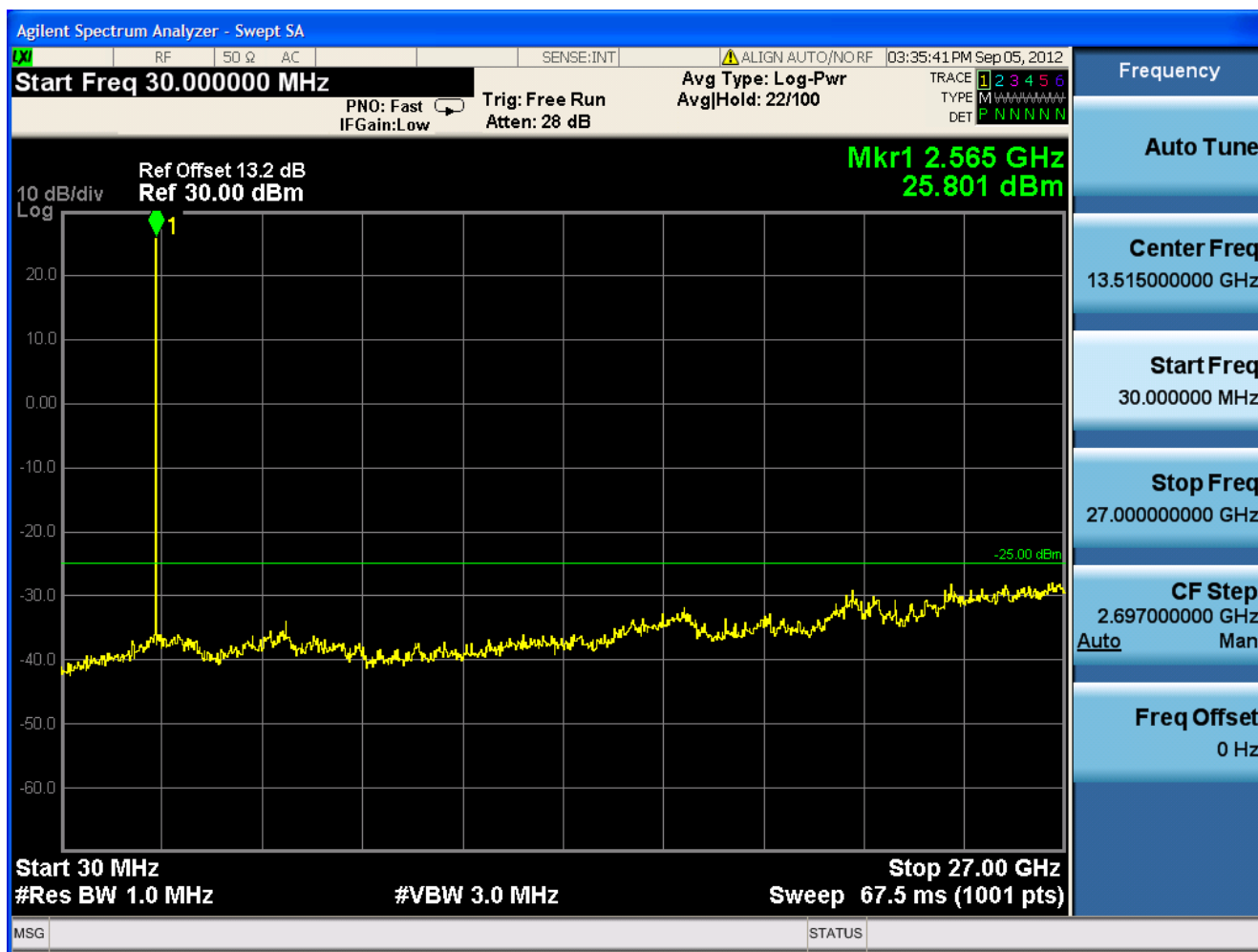


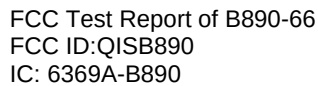


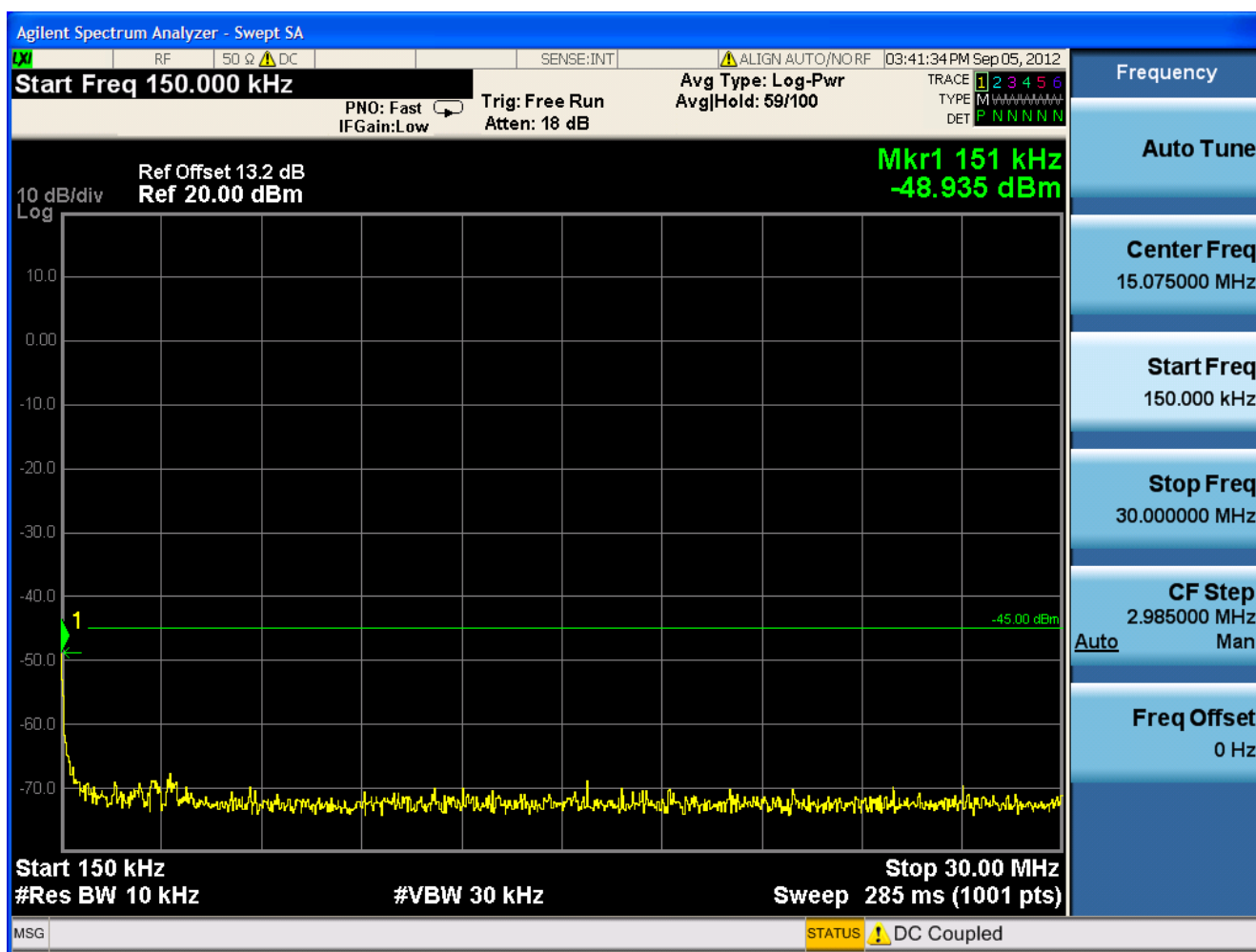


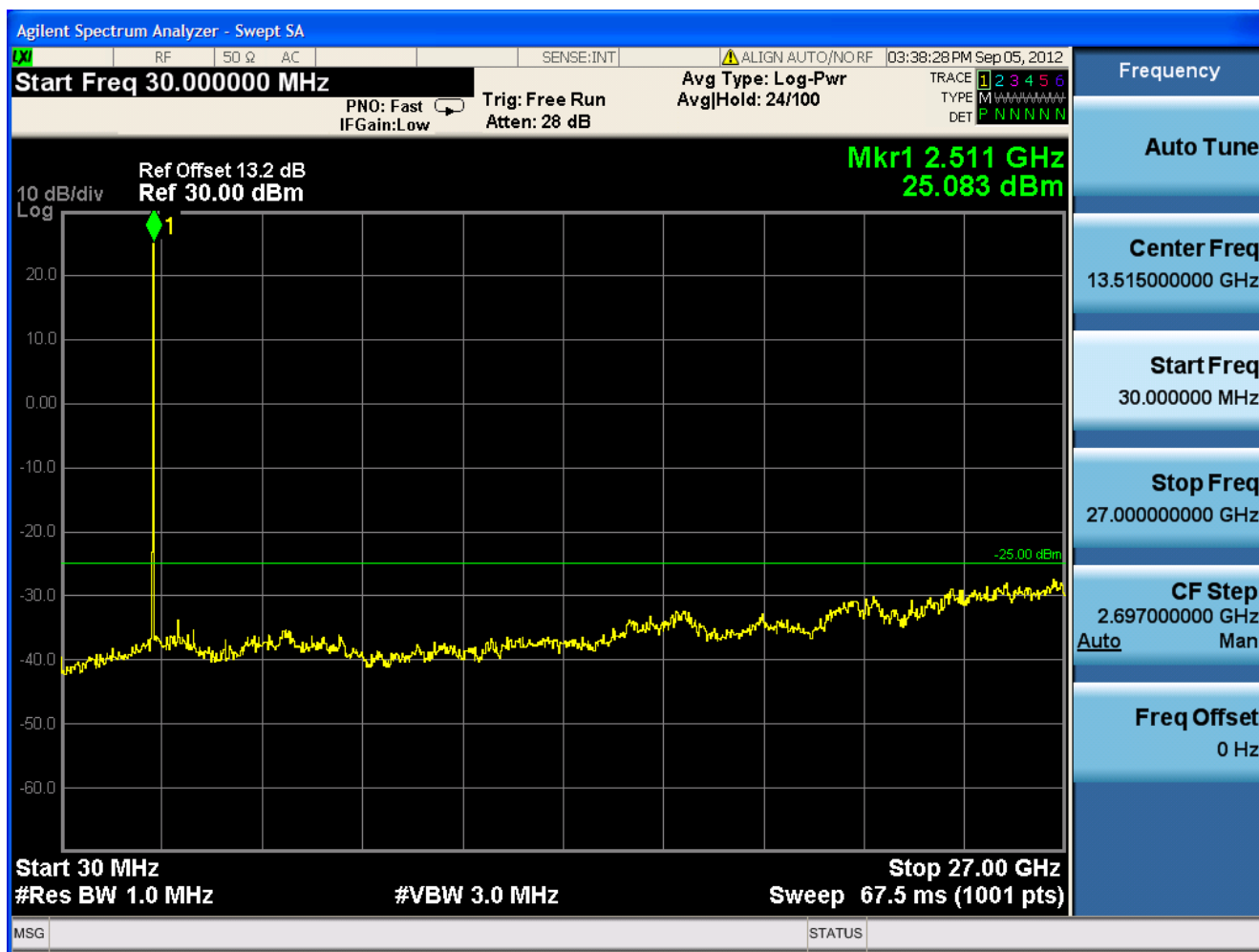








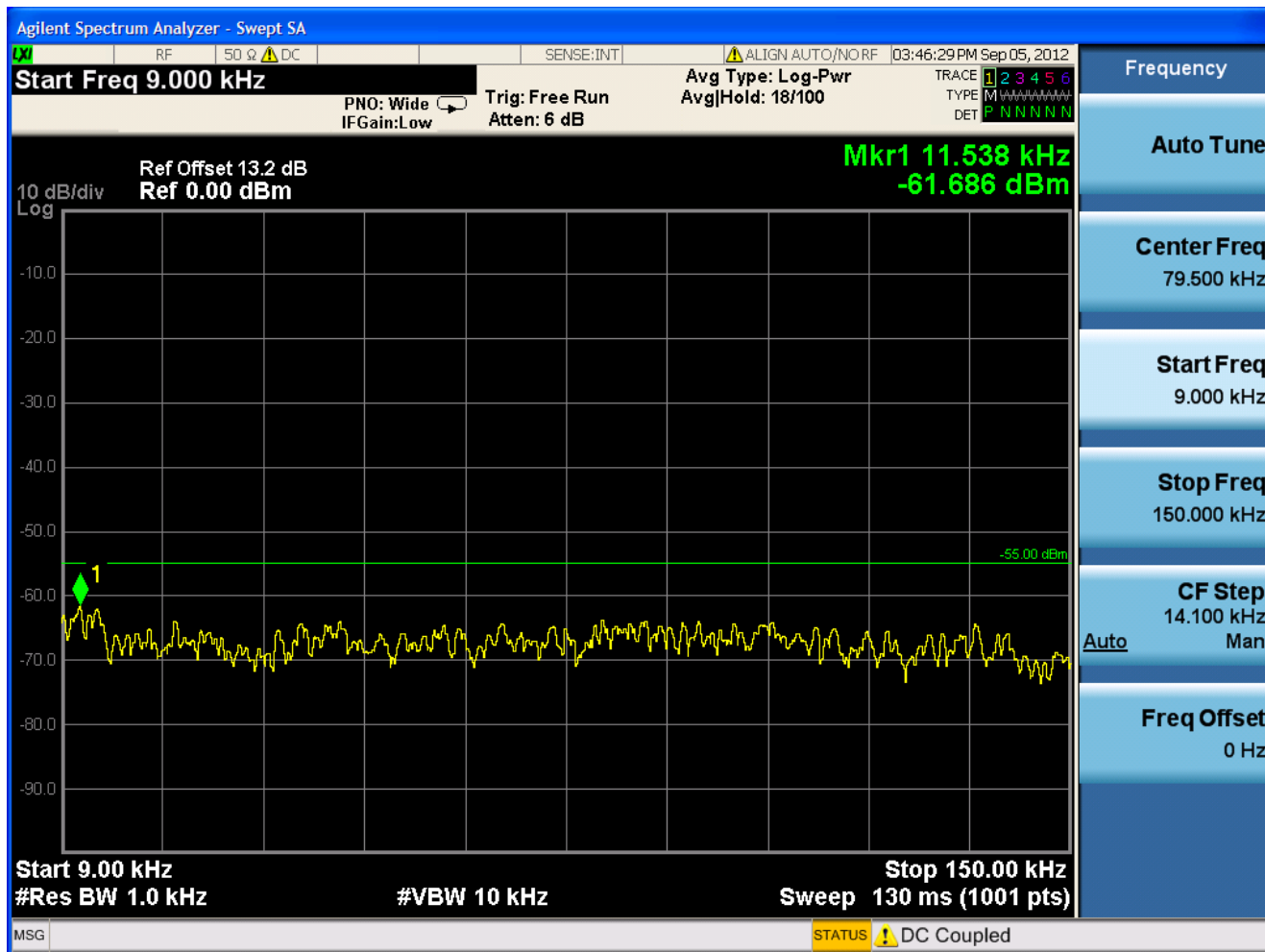


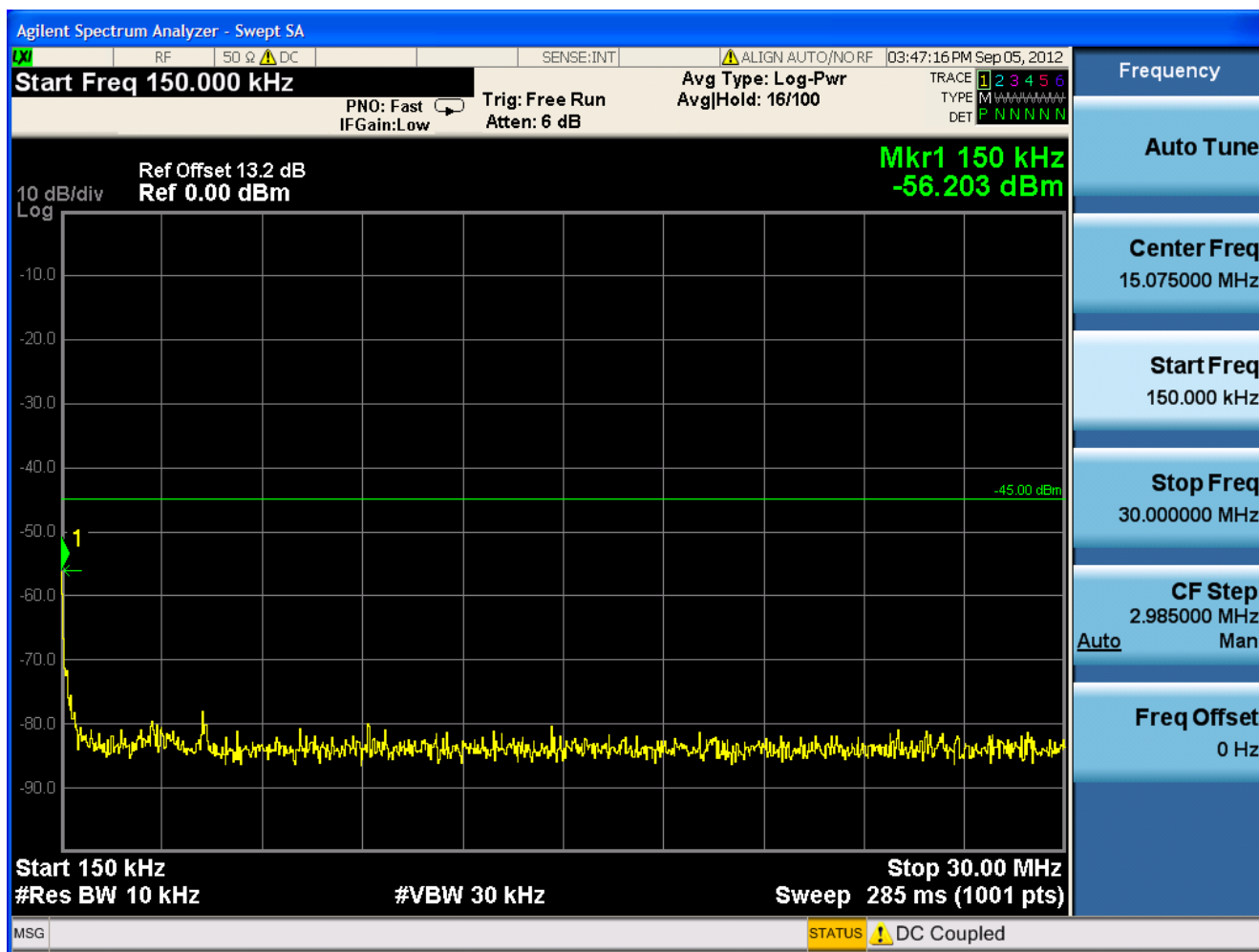


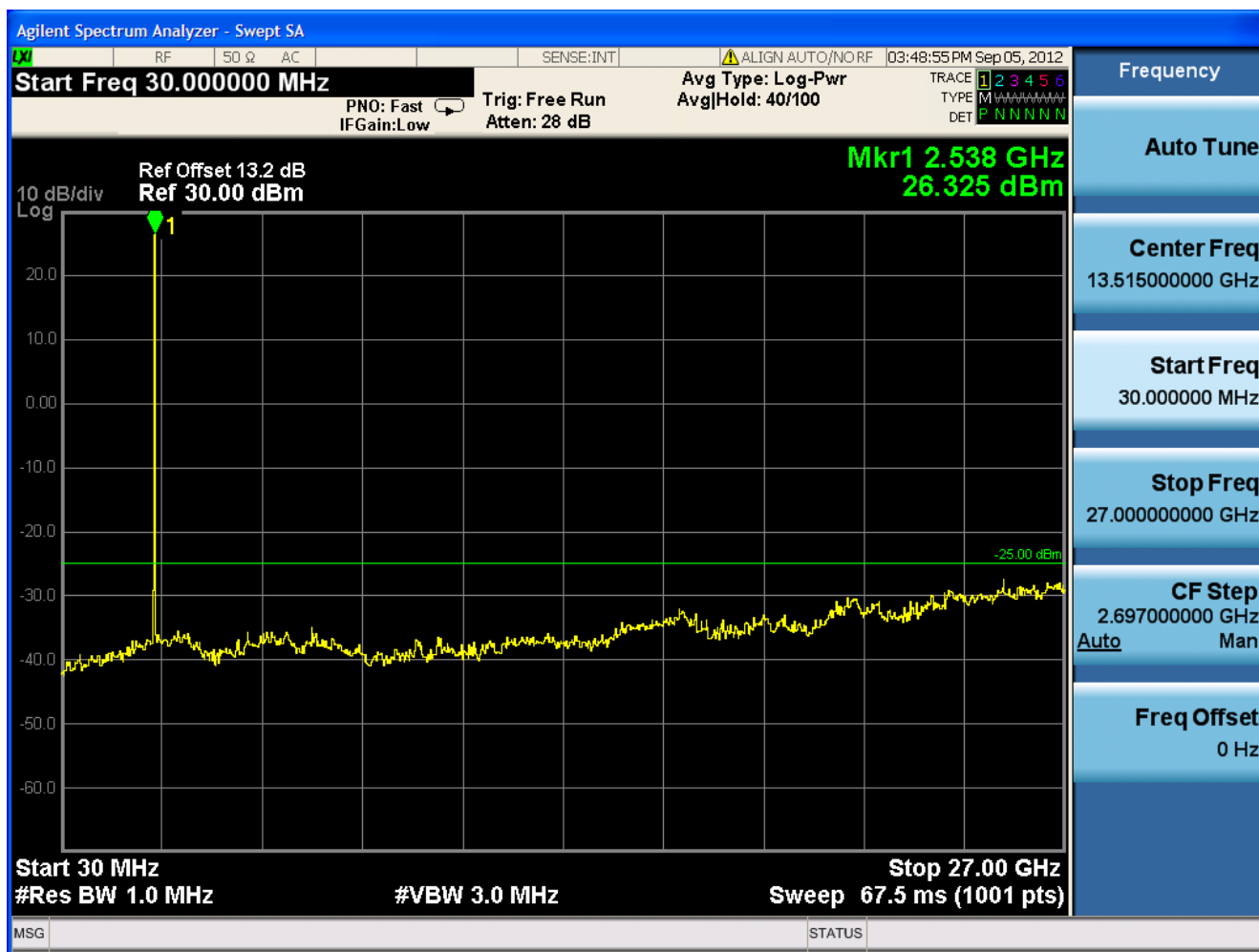


1.2.2.2 Channel = M

1.2.2.2.1 16QAM/1RBs /RB #0



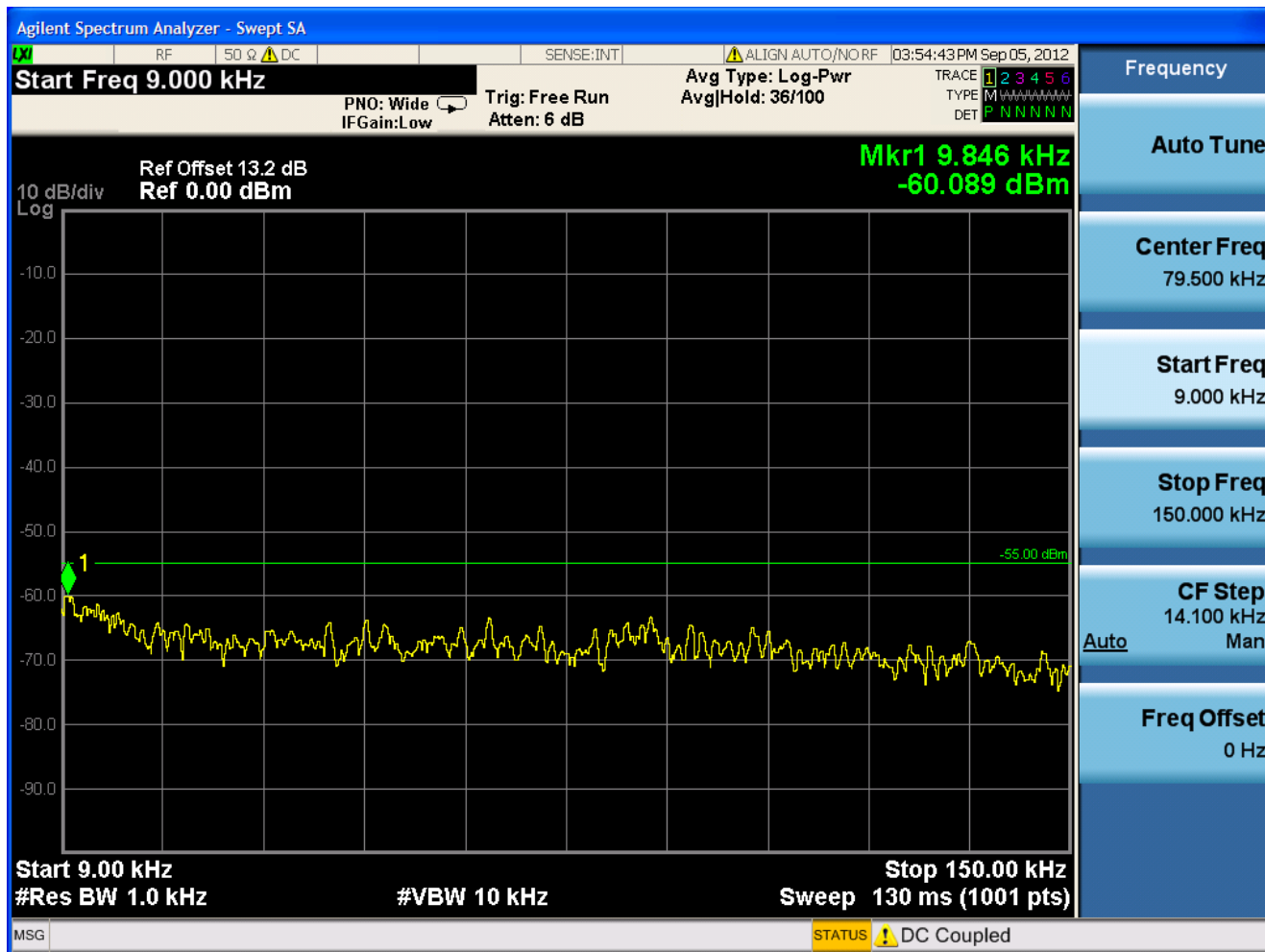


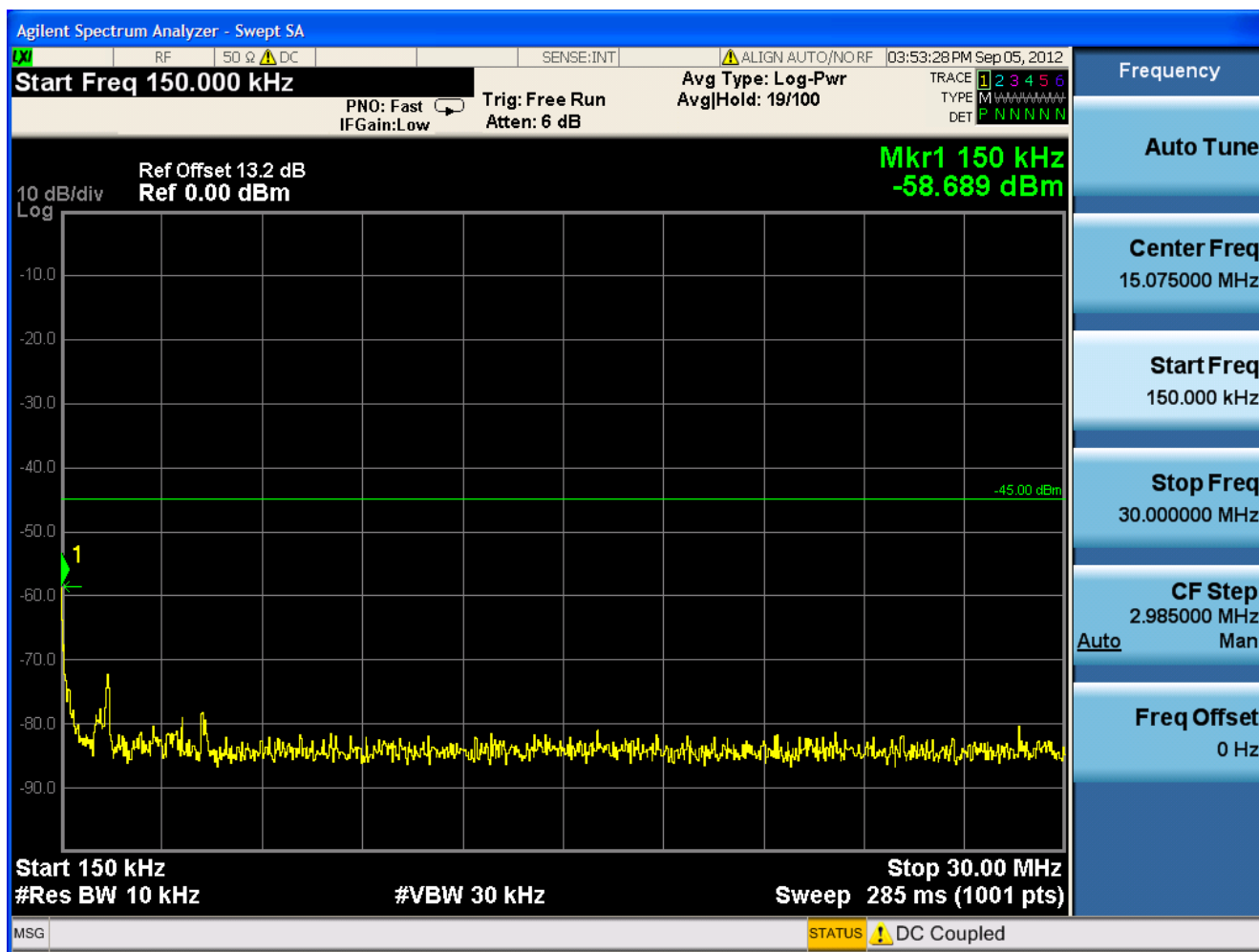


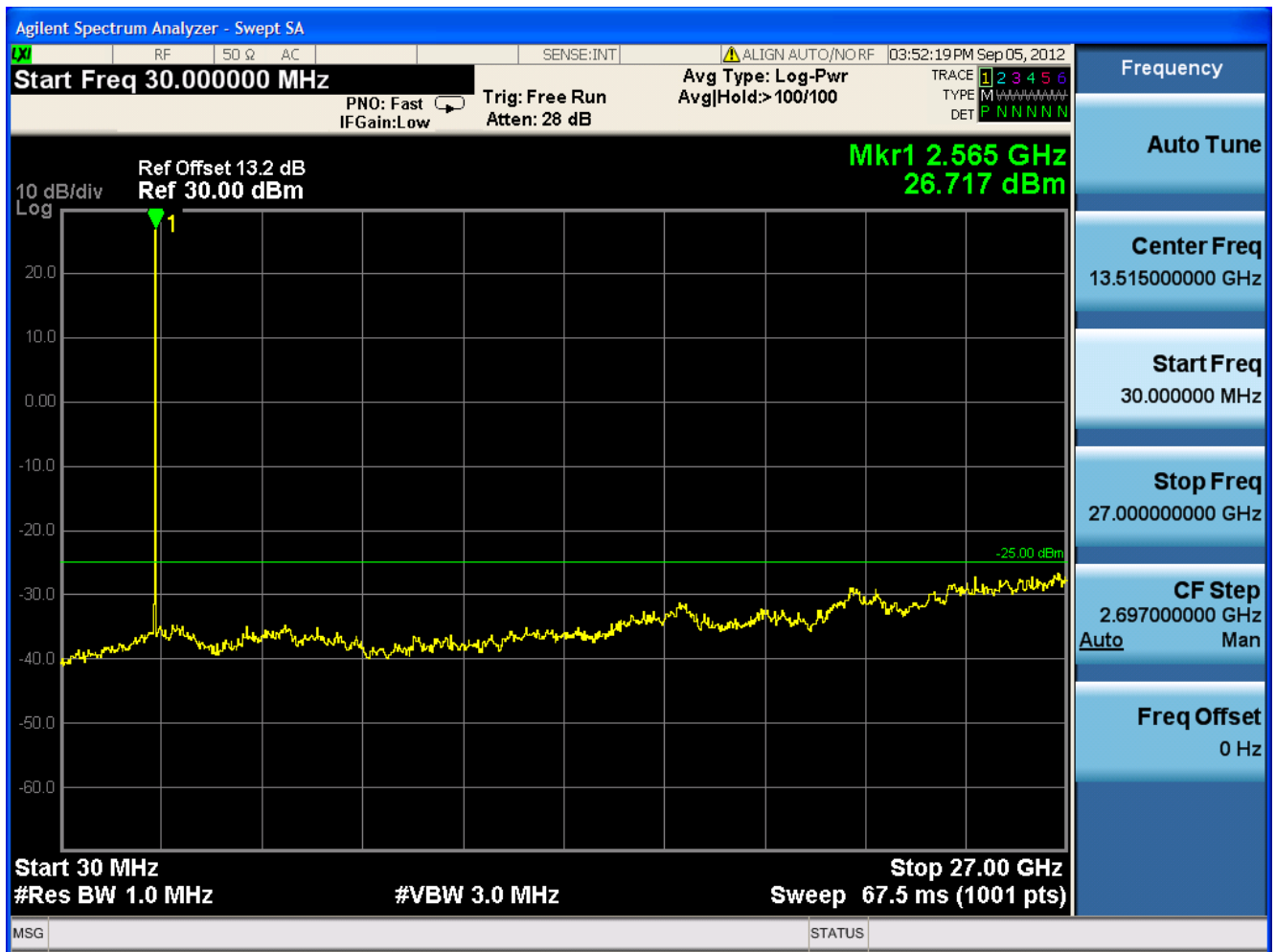


1.2.2.3 Channel = T

1.2.2.3.1 16QAM/1RBs /RB #0



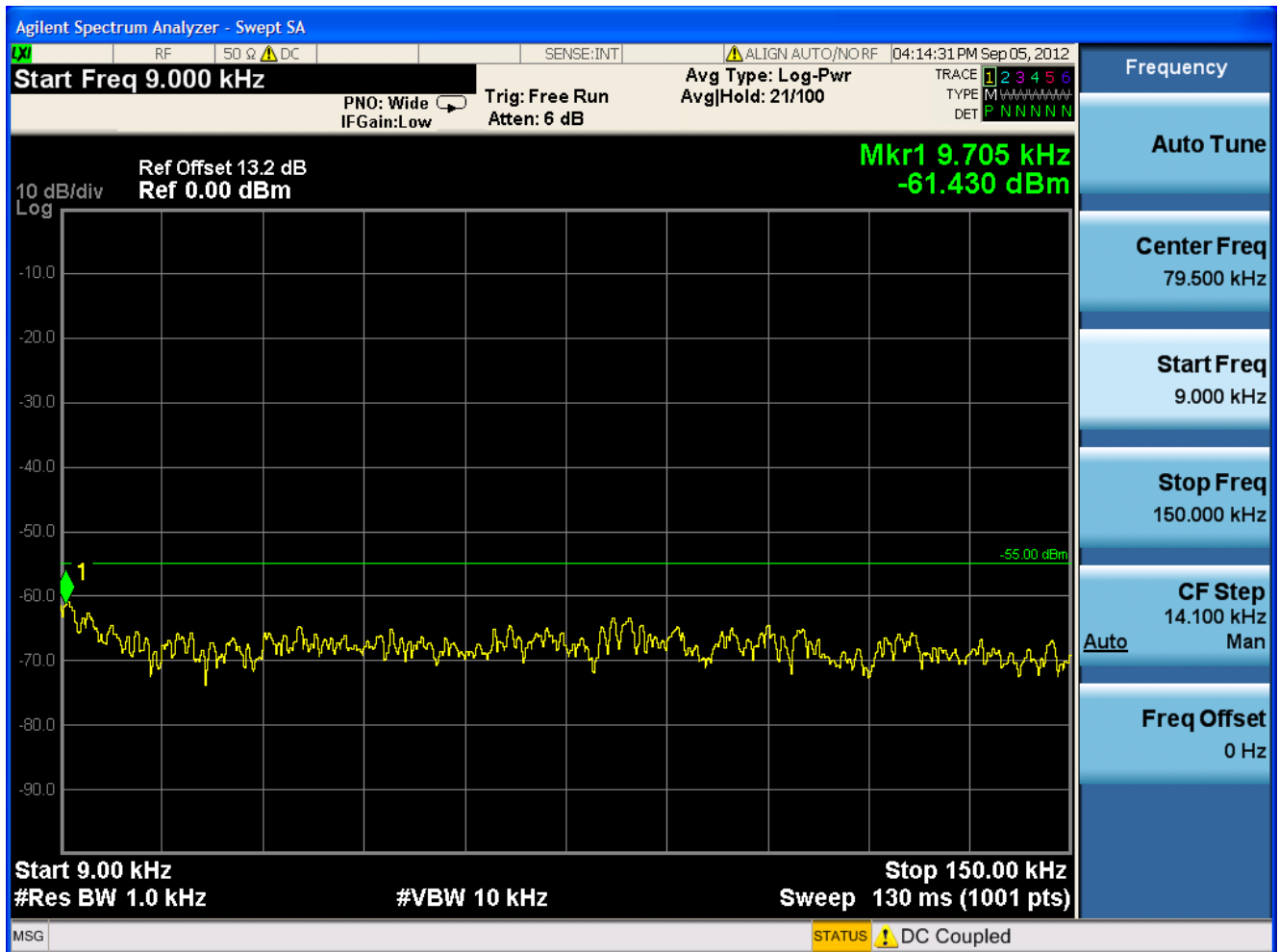


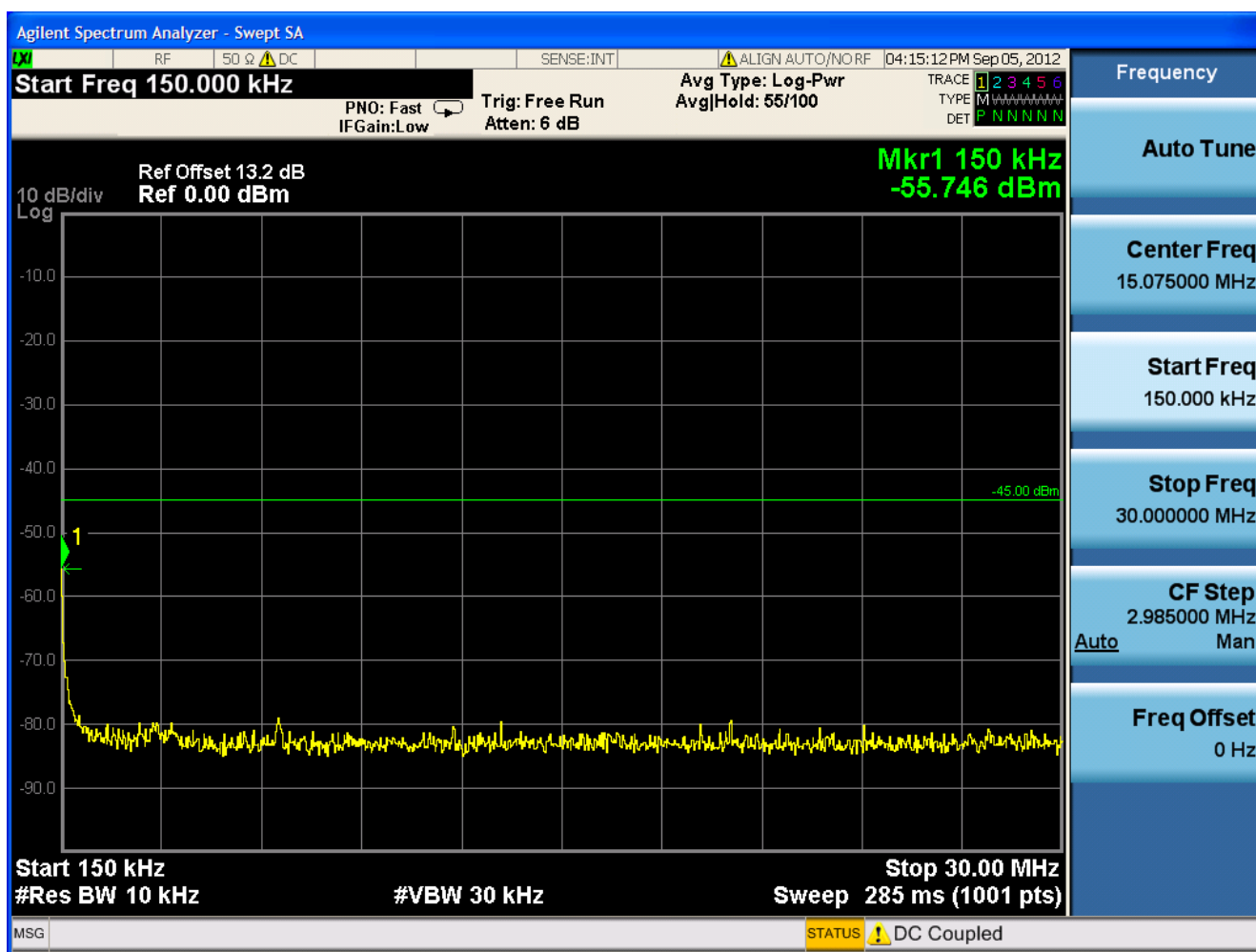


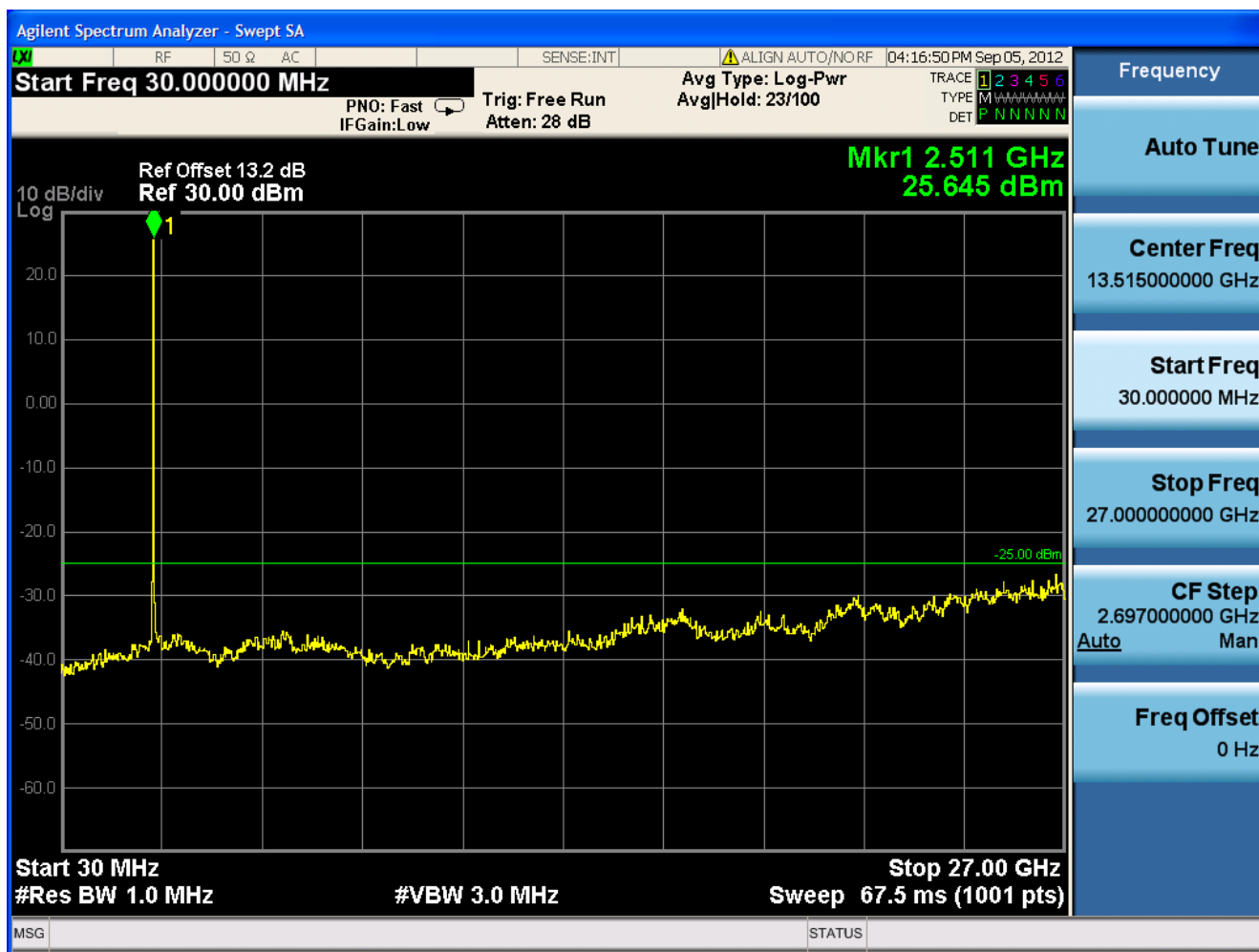
1.2.3 Channel Bandwidth = 15 MHz

1.2.3.1 Channel = B

1.2.3.1.1 16QAM/1RBs /RB #0



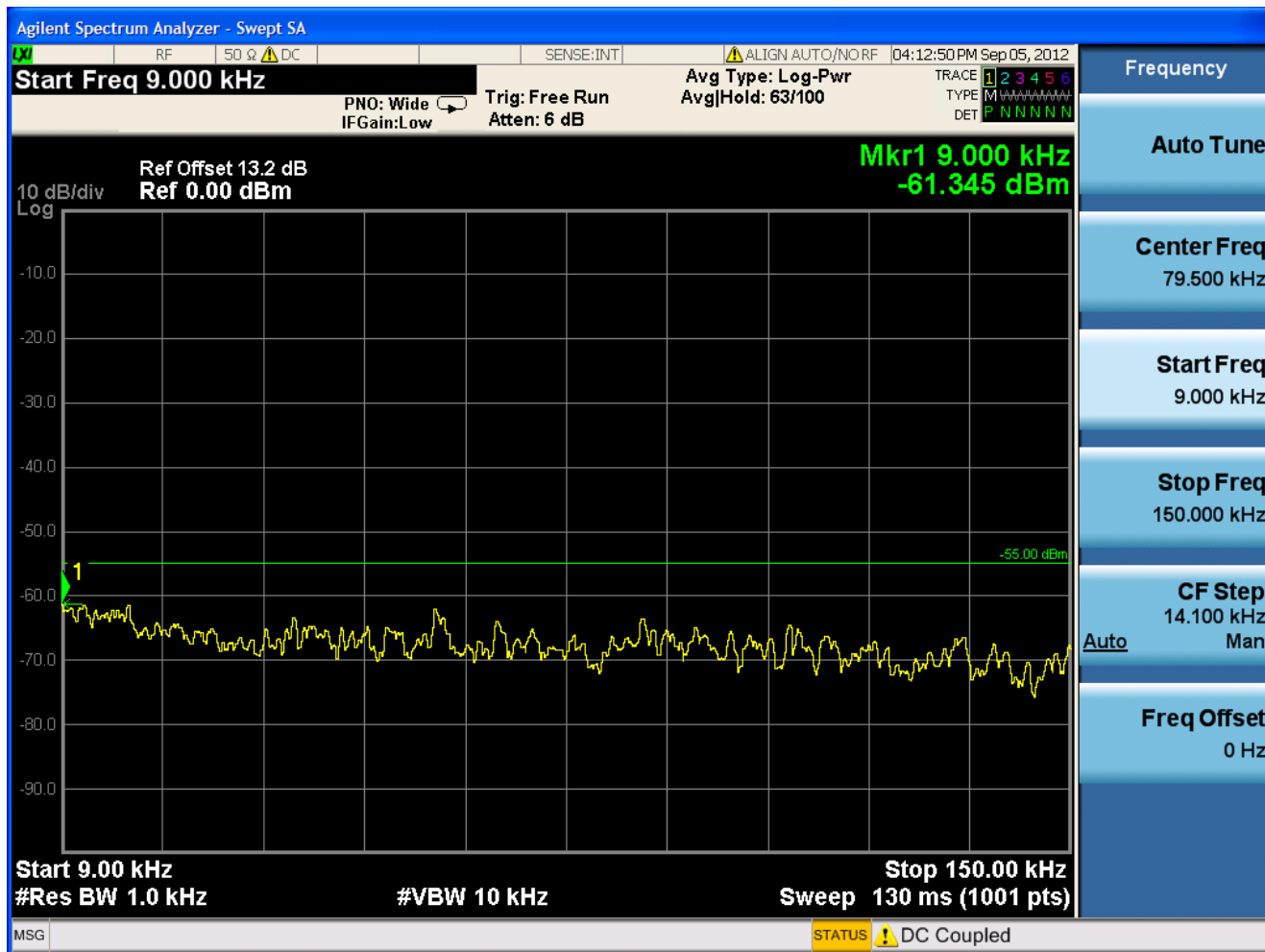


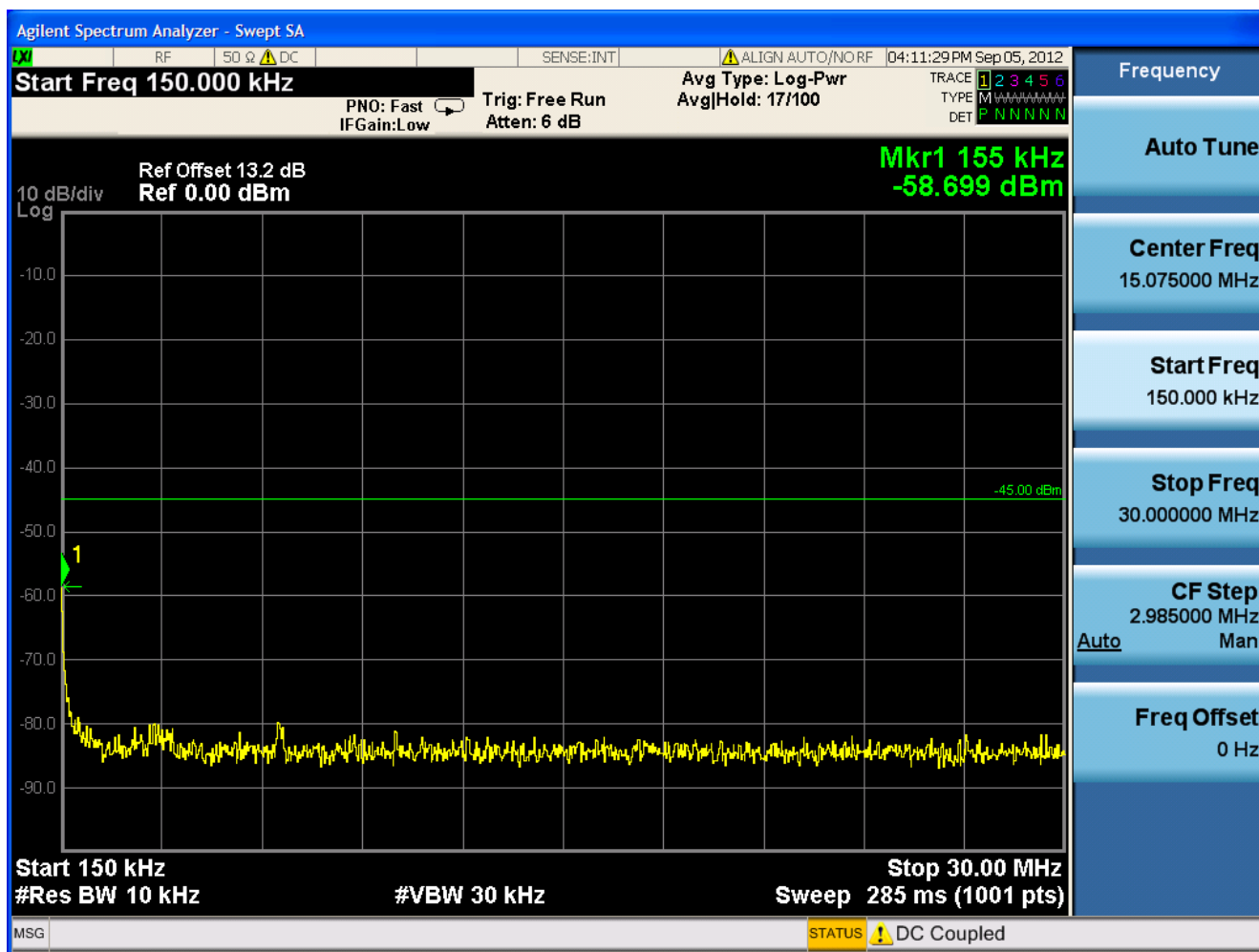


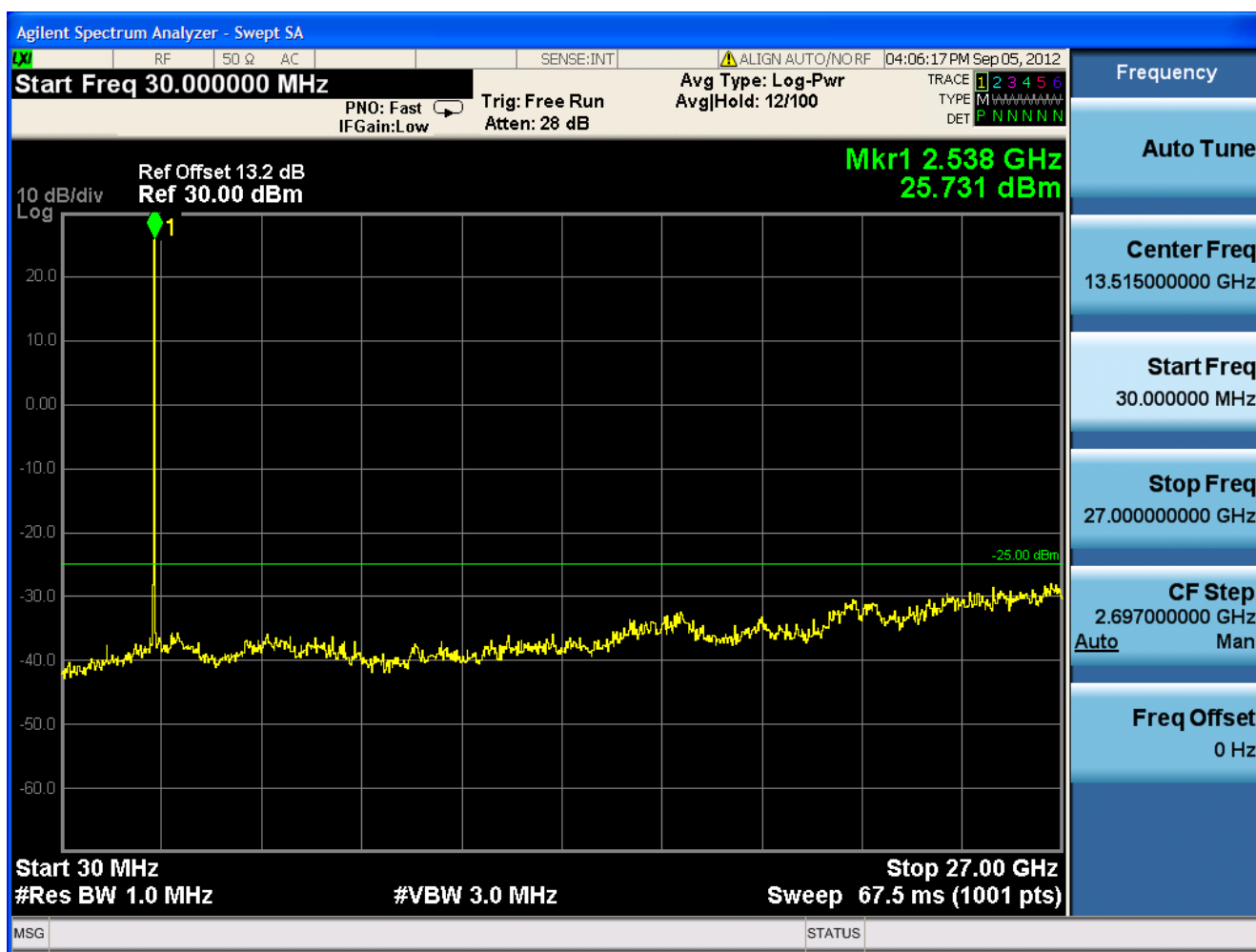


1.2.3.2 Channel = M

1.2.3.2.1 16QAM/1RBs /RB #0



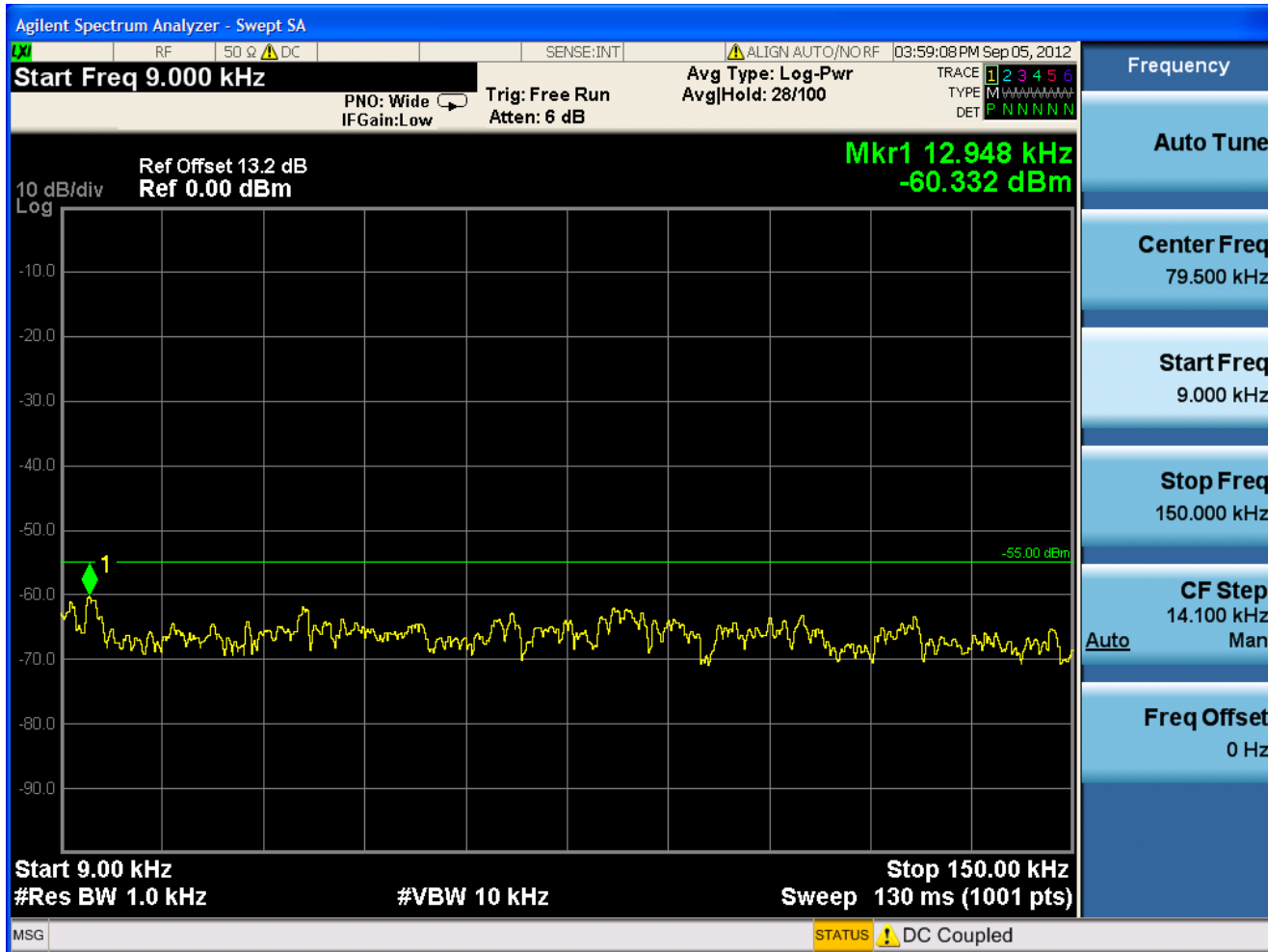


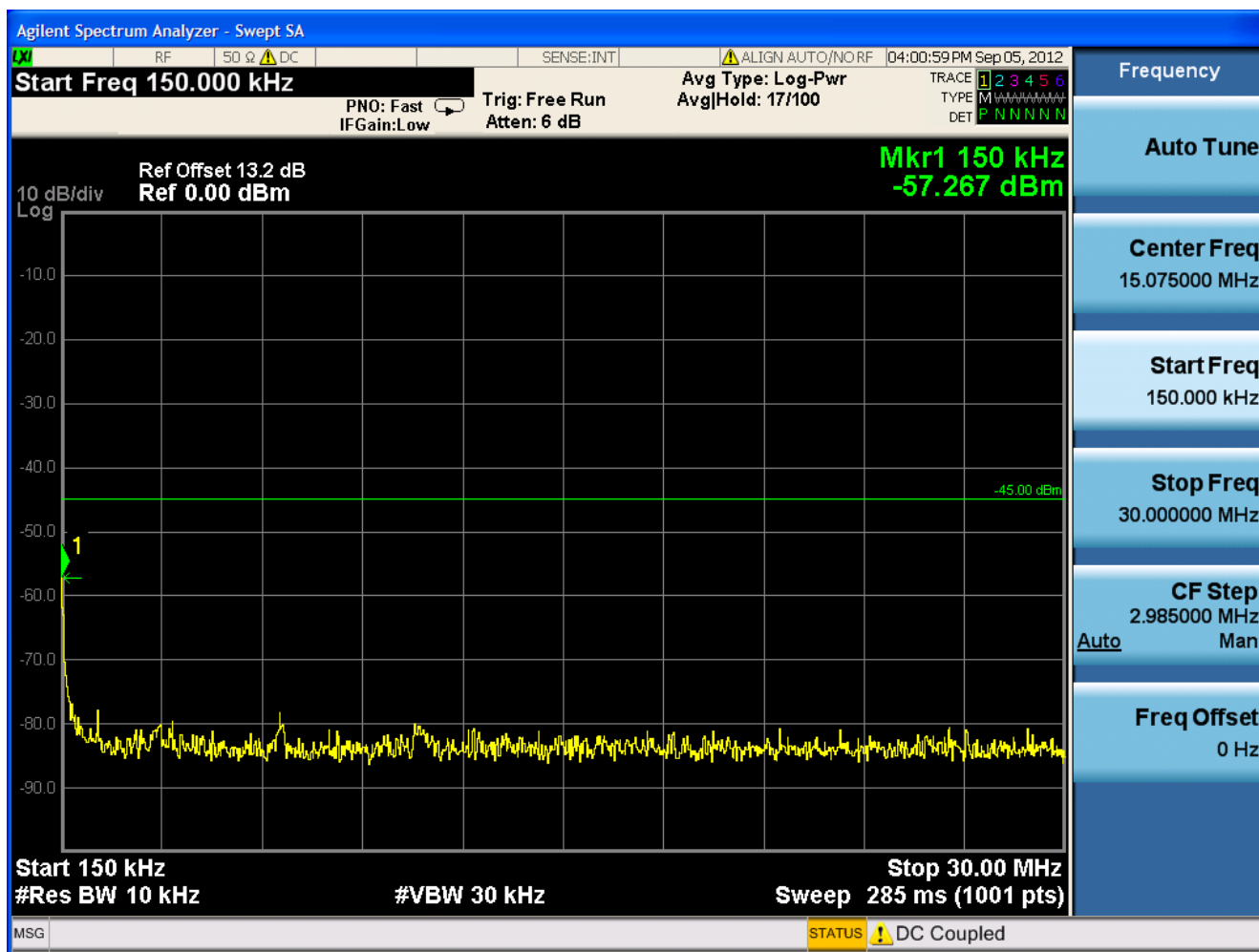


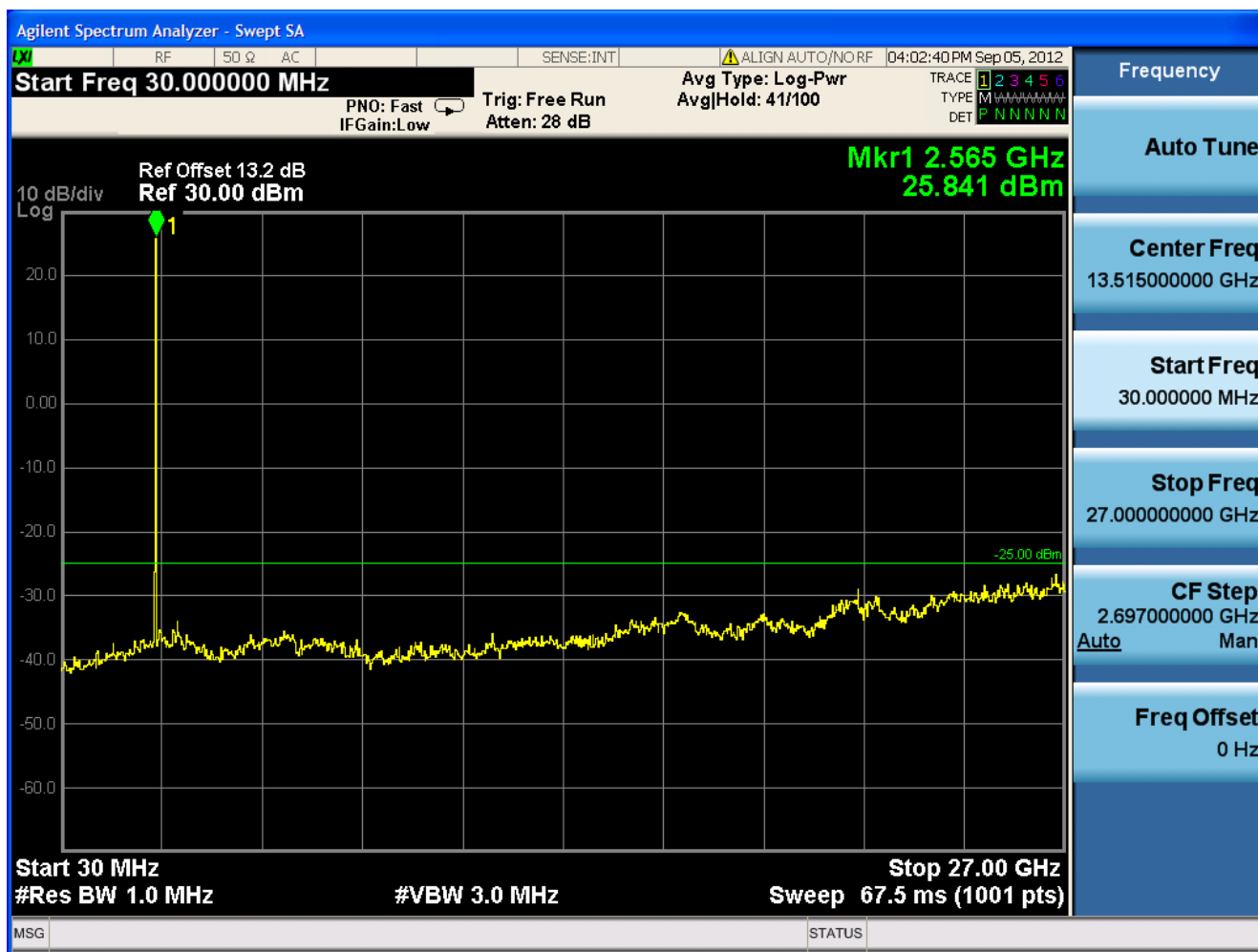


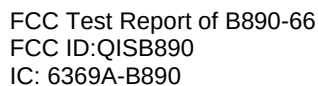
1.2.3.3 Channel = T

1.2.3.3.1 16QAM/1RBs /RB #0





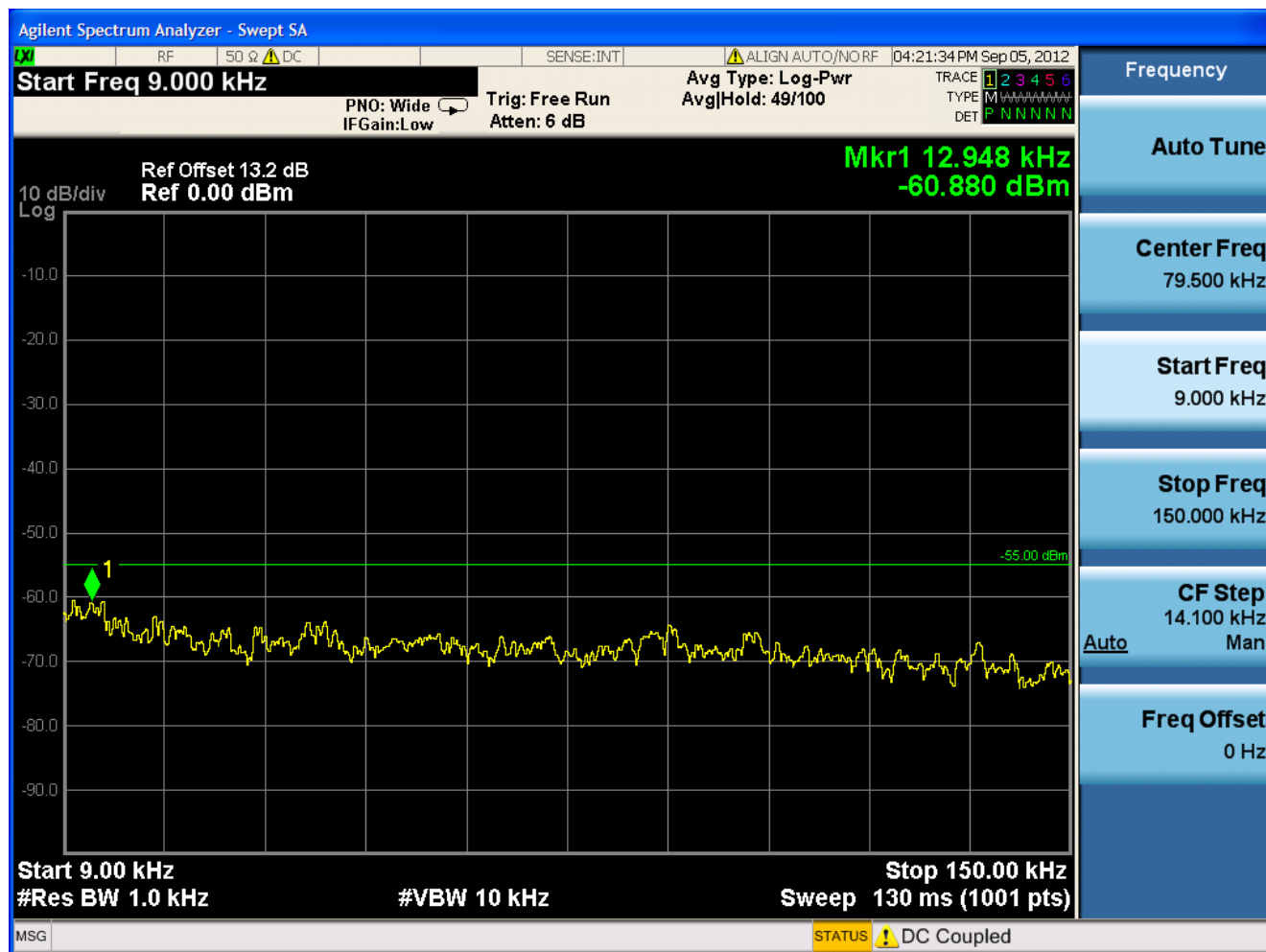


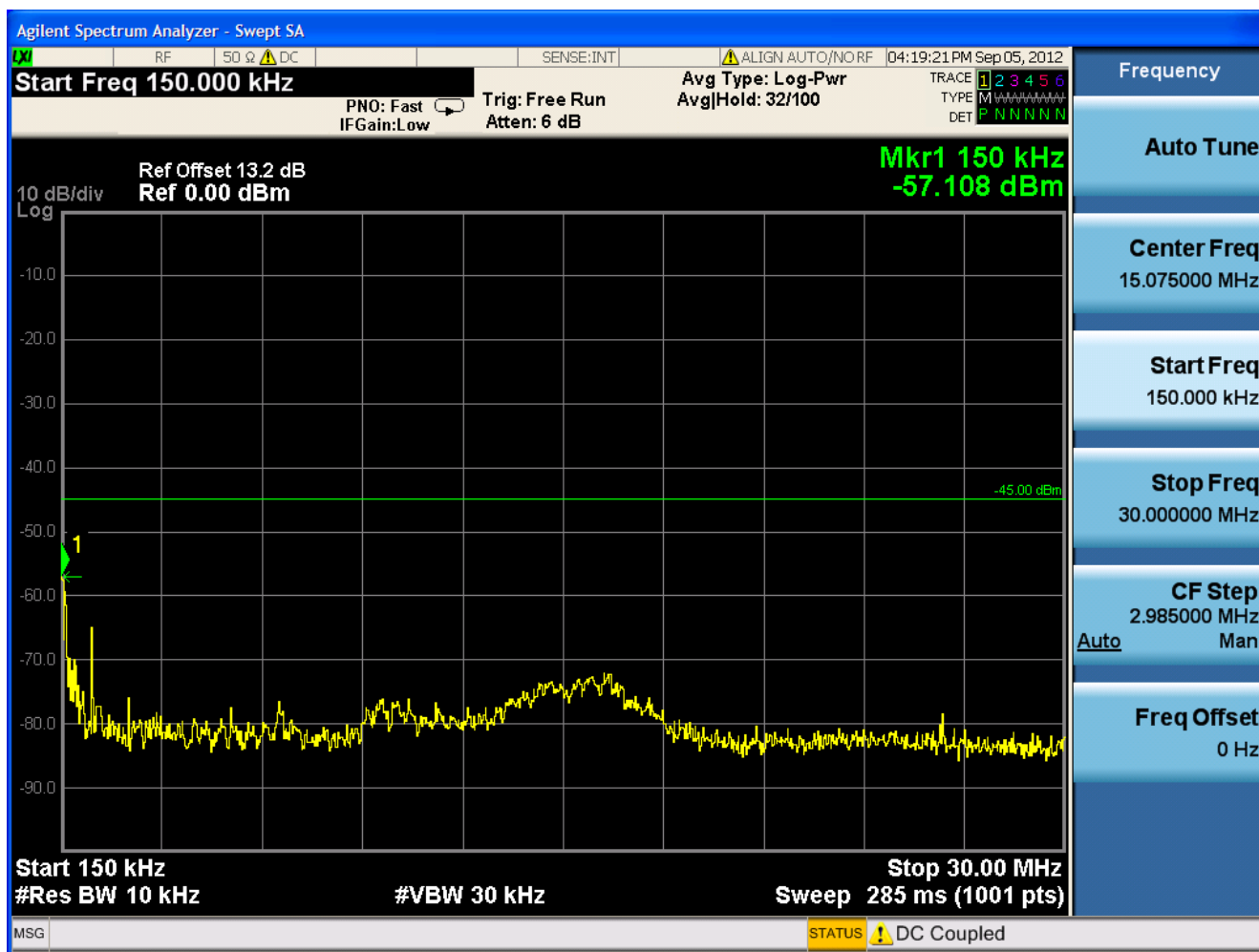


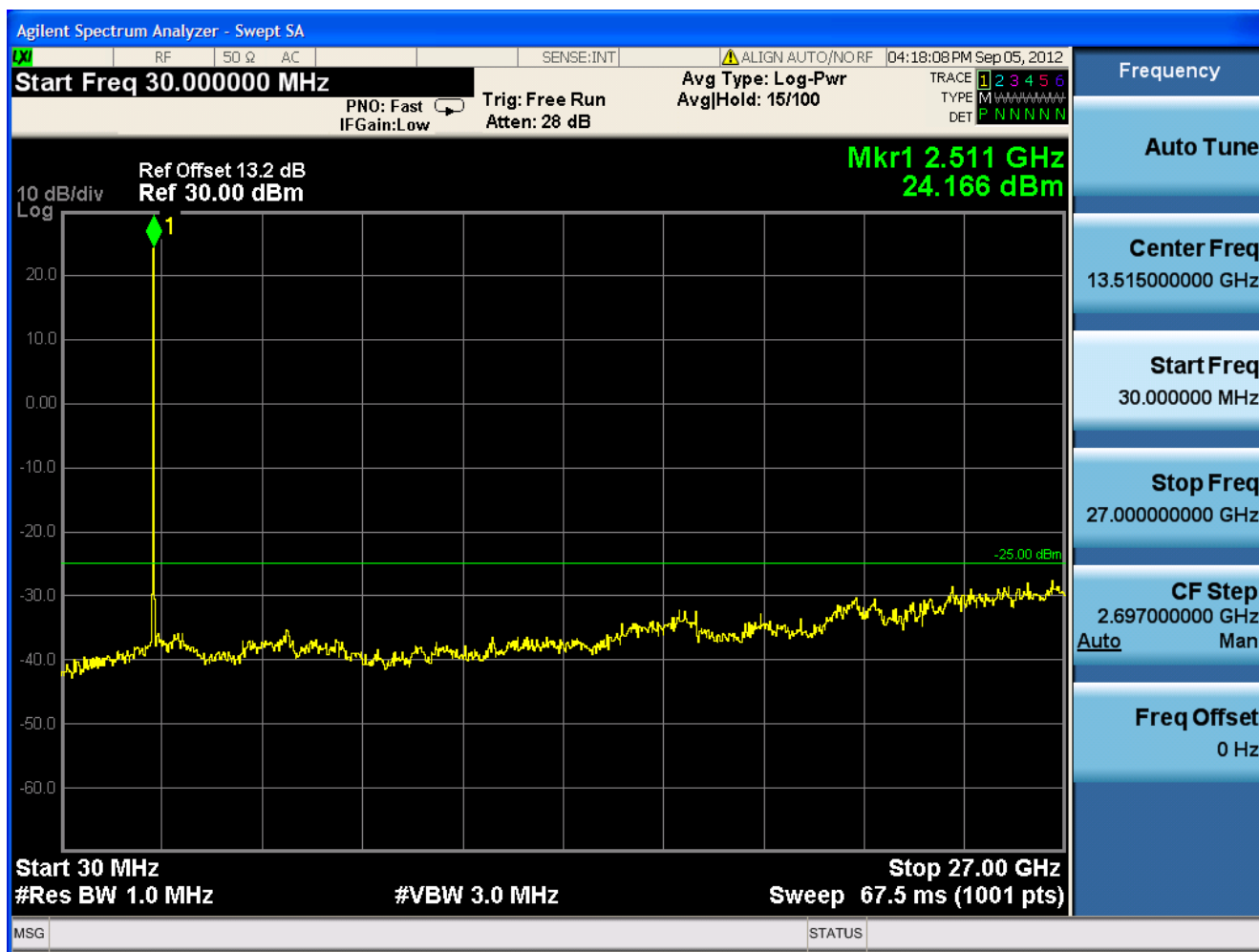
1.2.4 Channel Bandwidth = 20 MHz

1.2.4.1 Channel = B

1.2.4.1.1 16QAM/1RBs /RB #0



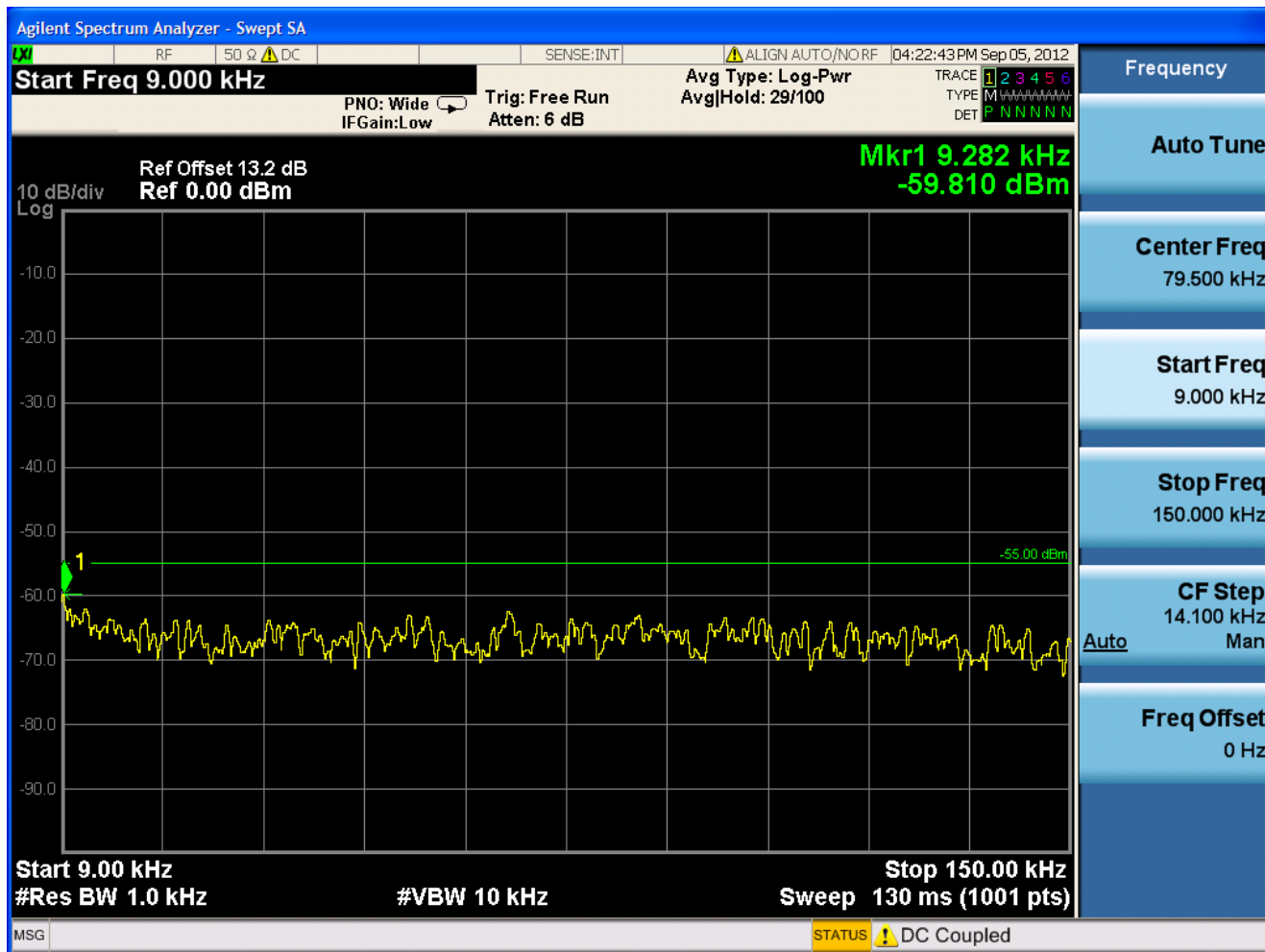


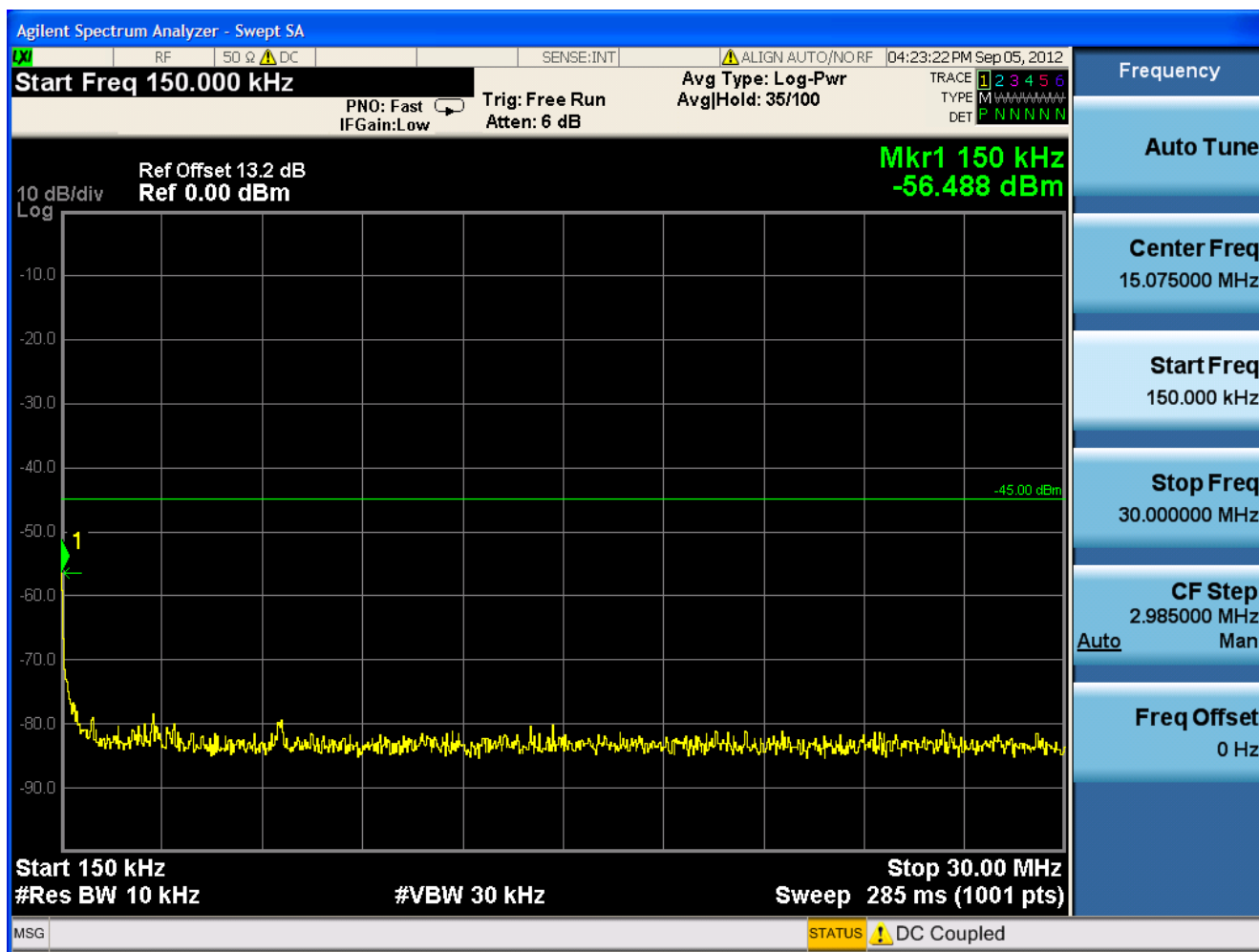


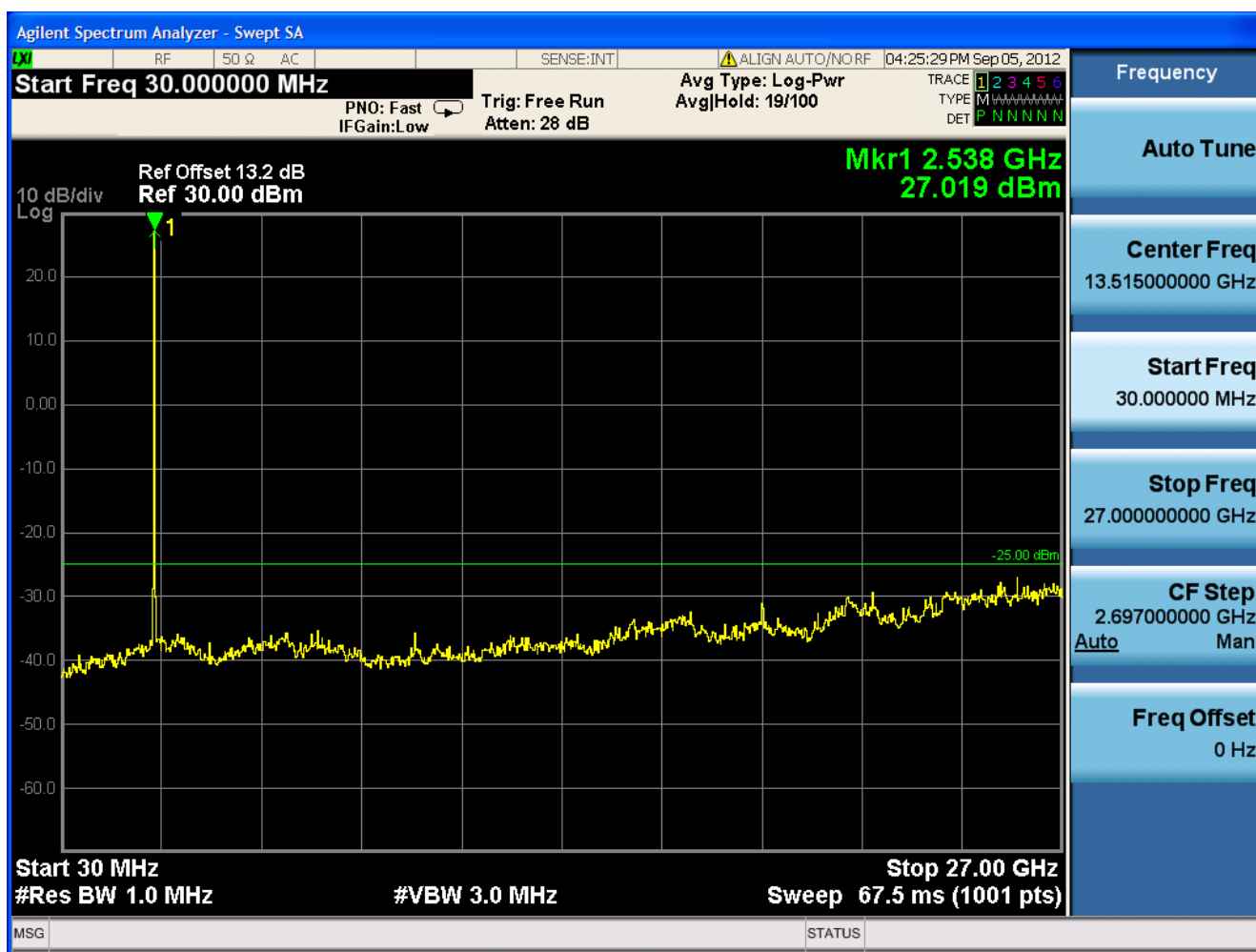


1.2.4.2 Channel = M

1.2.4.2.1 16QAM/1RBs /RB #0



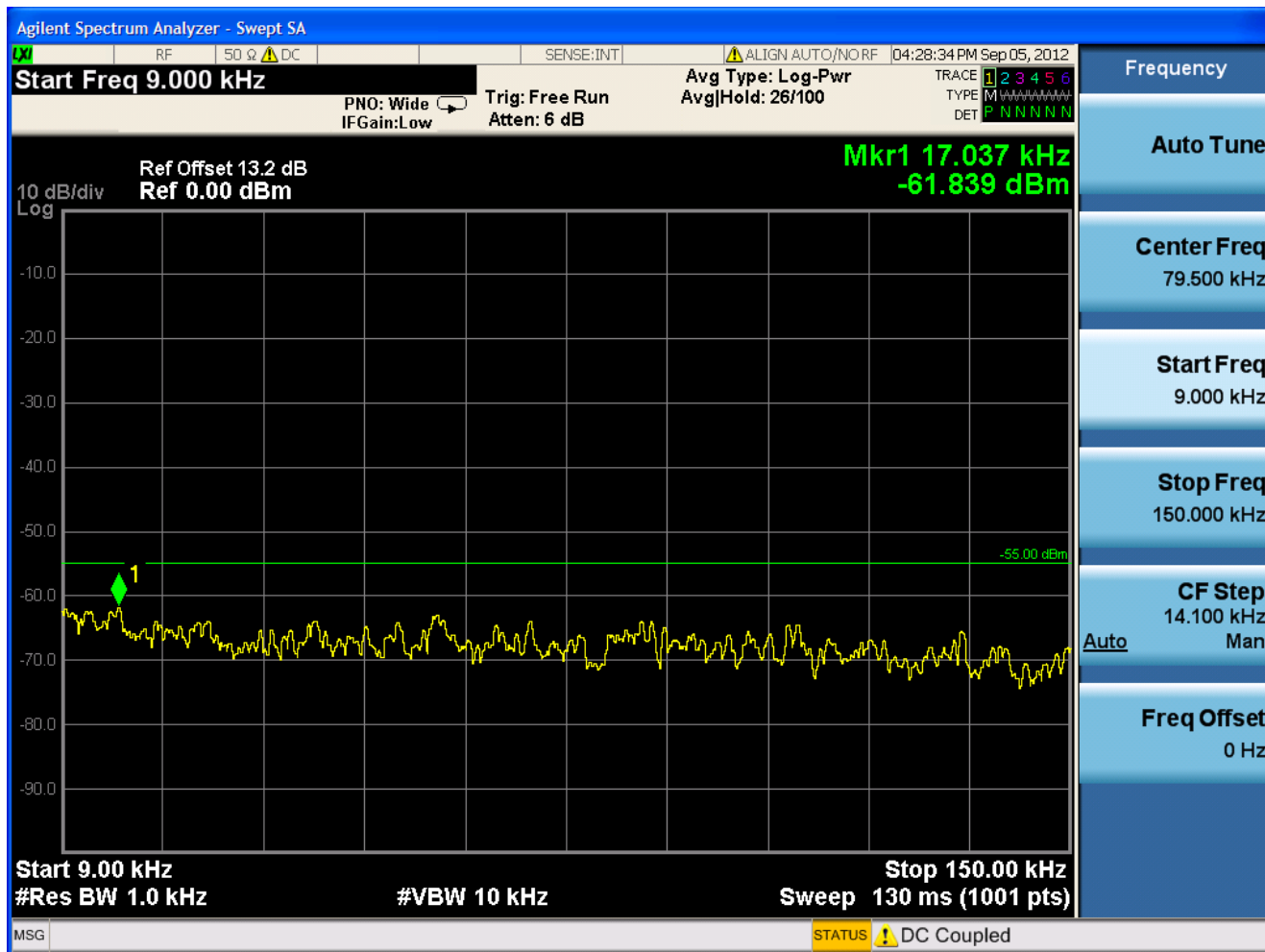


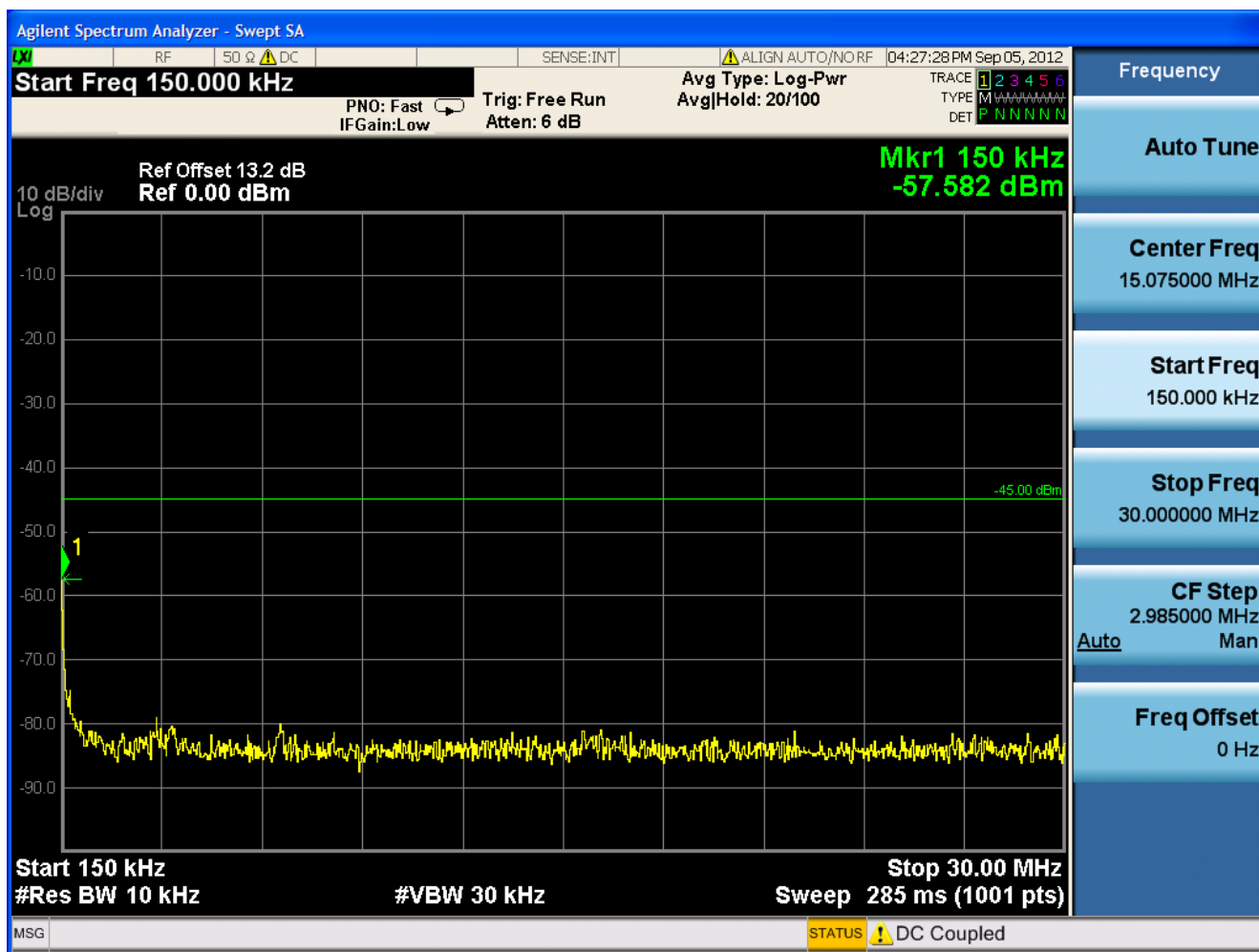


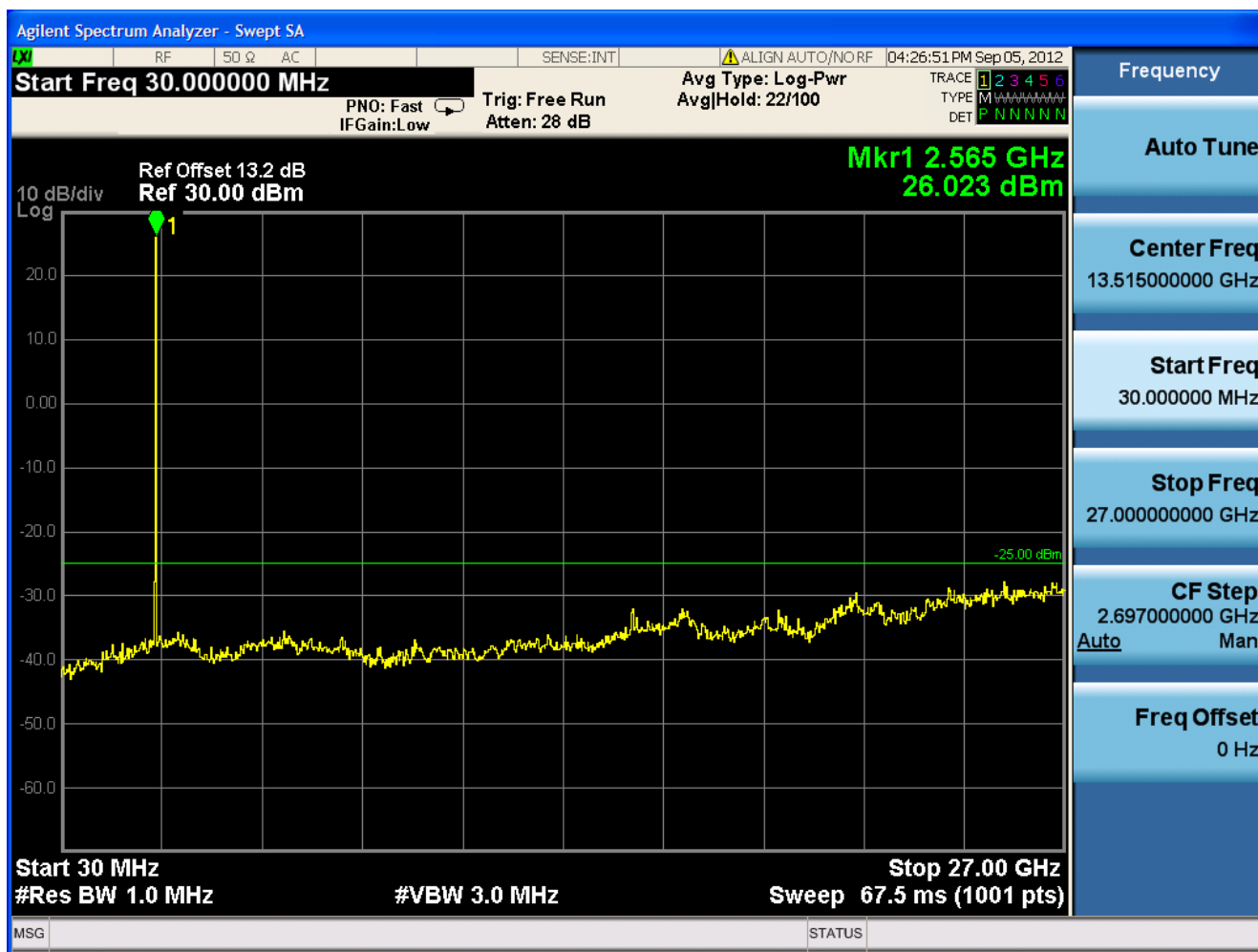


1.2.4.3 Channel = T

1.2.4.3.1 16QAM/1RBs /RB #0







-----END-----



Appendix F

Radiated spurious emission

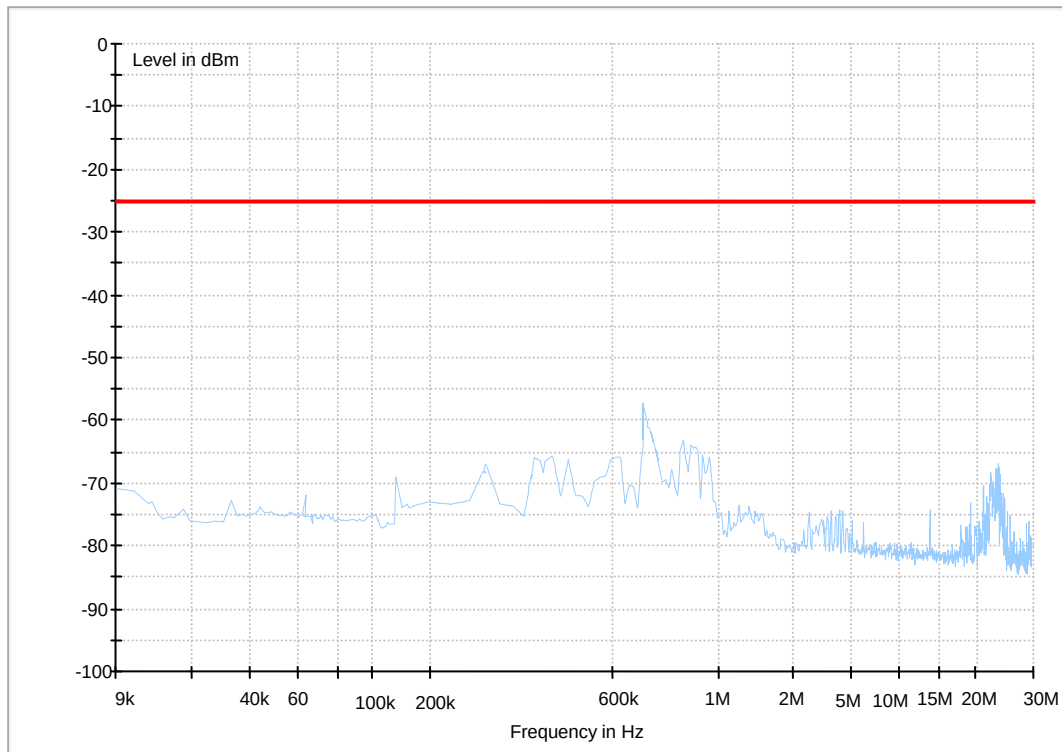
According to FCC Part 2.1053& Part 27.53(m)(4) &
27.53(m)(6) & RSS-199



Note: 1. Simultaneous transmission was investigated and no new emissions were found.
2. $RBW \geq 1\text{MHz}$, $VBW > 3 \times RBW$.

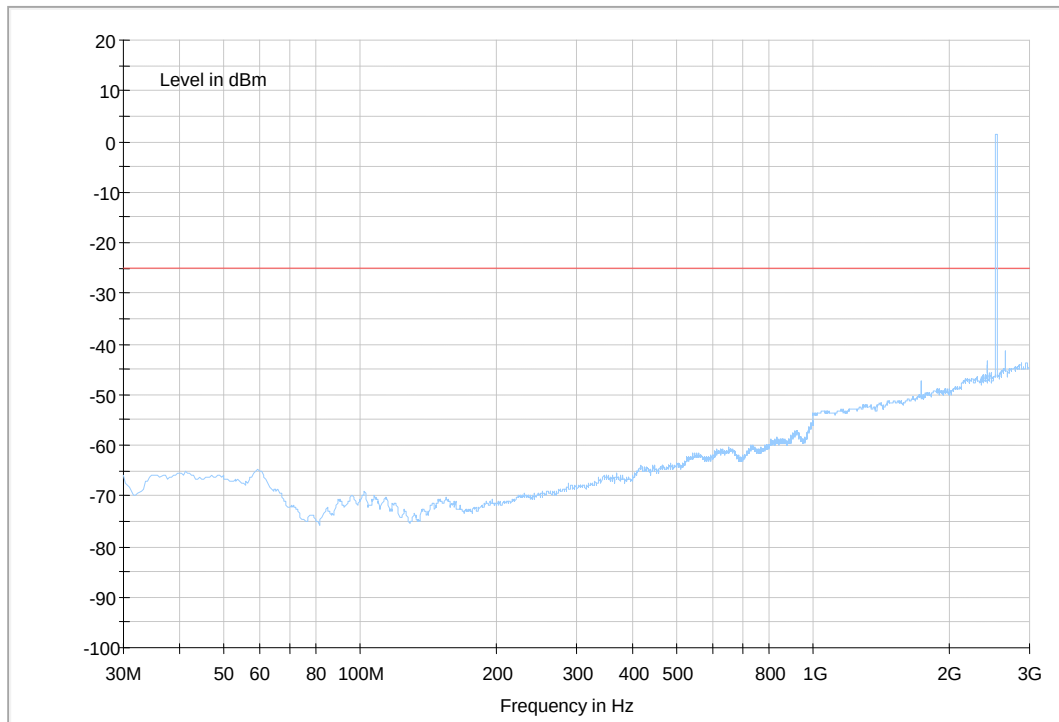
LTE-Band7-5MHz

(9kHz~30MHz)



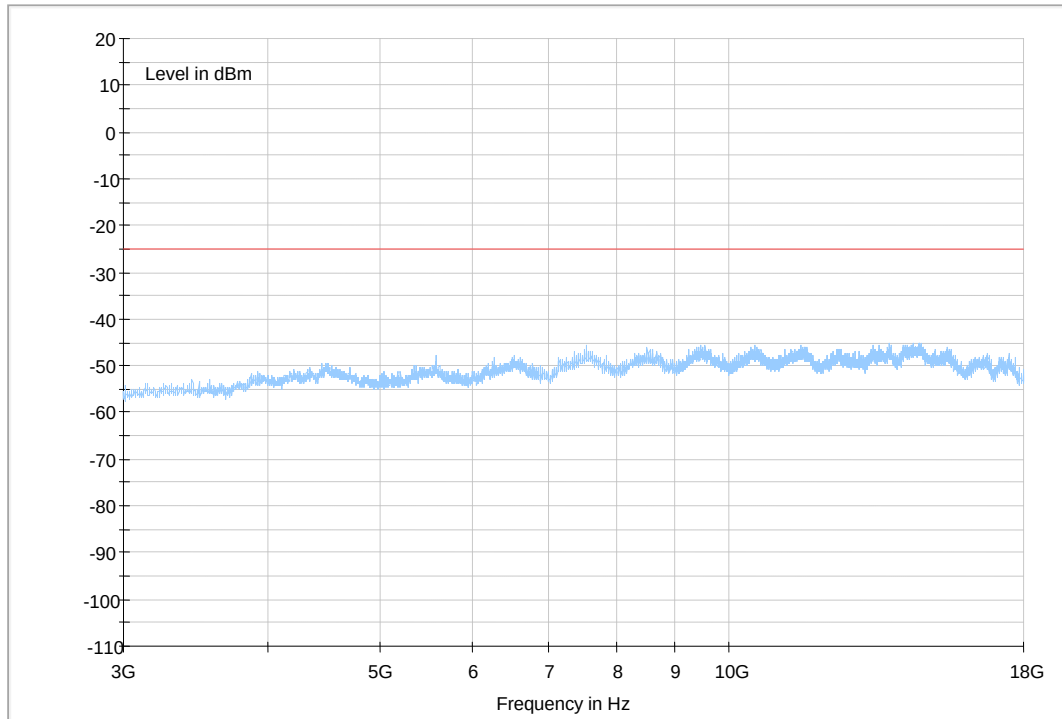


(30MHz~3GHz)



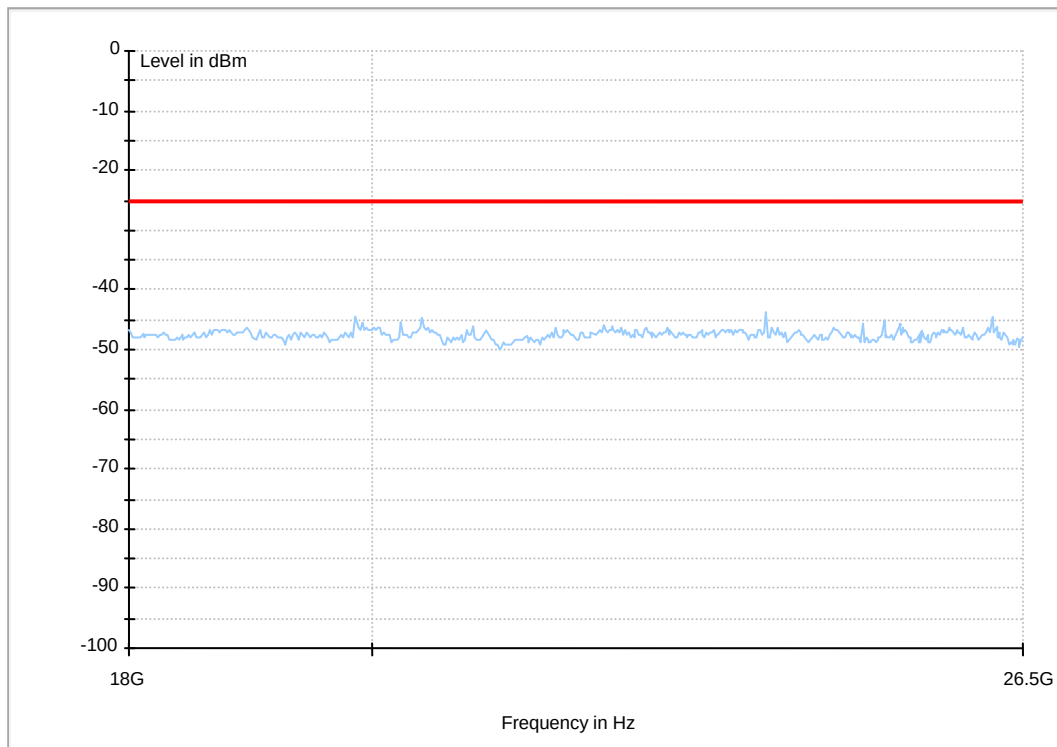


(3GHz~18GHz)





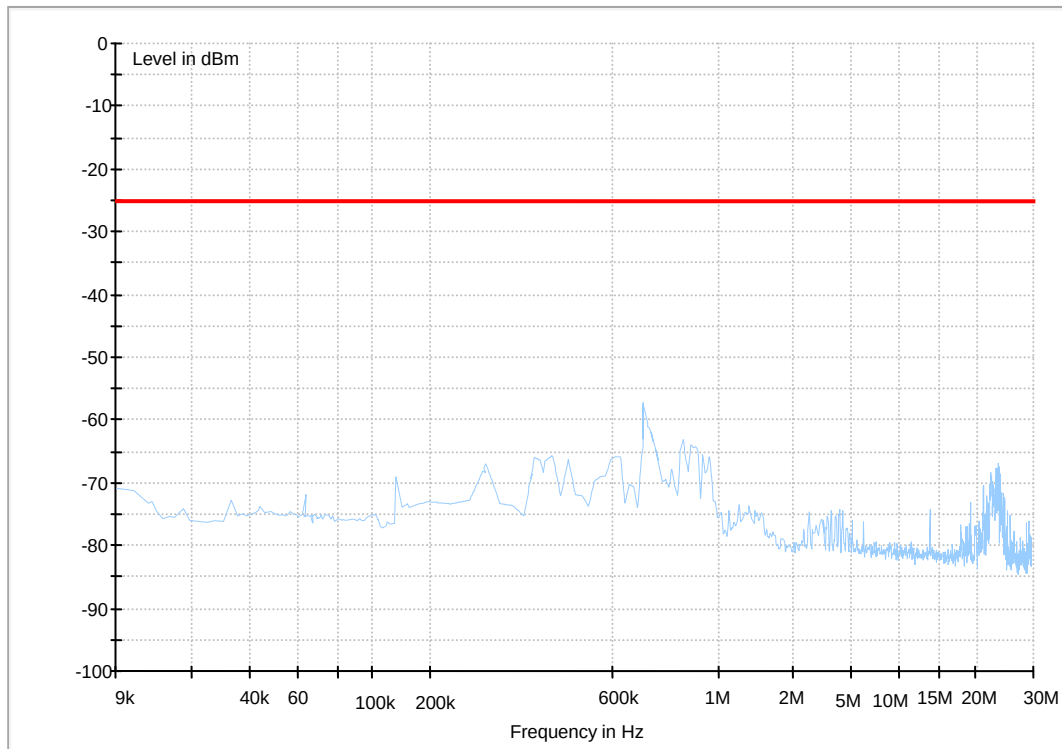
(18GHz~26.5GHz)





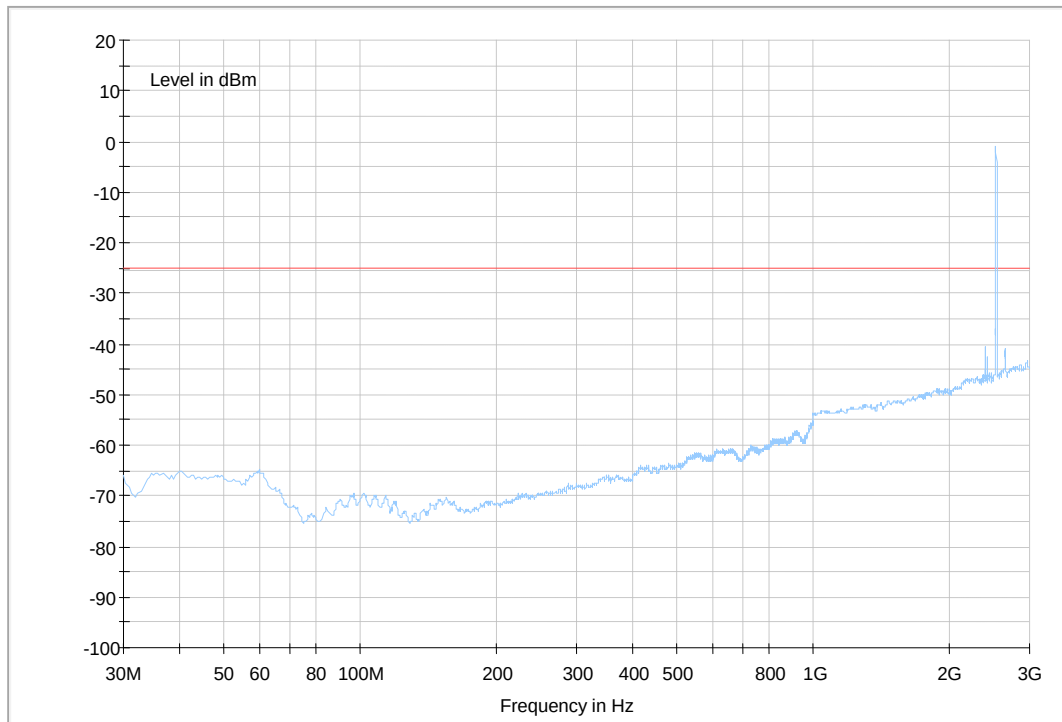
LTE-Band7-20MHz

(9kHz~30MHz)



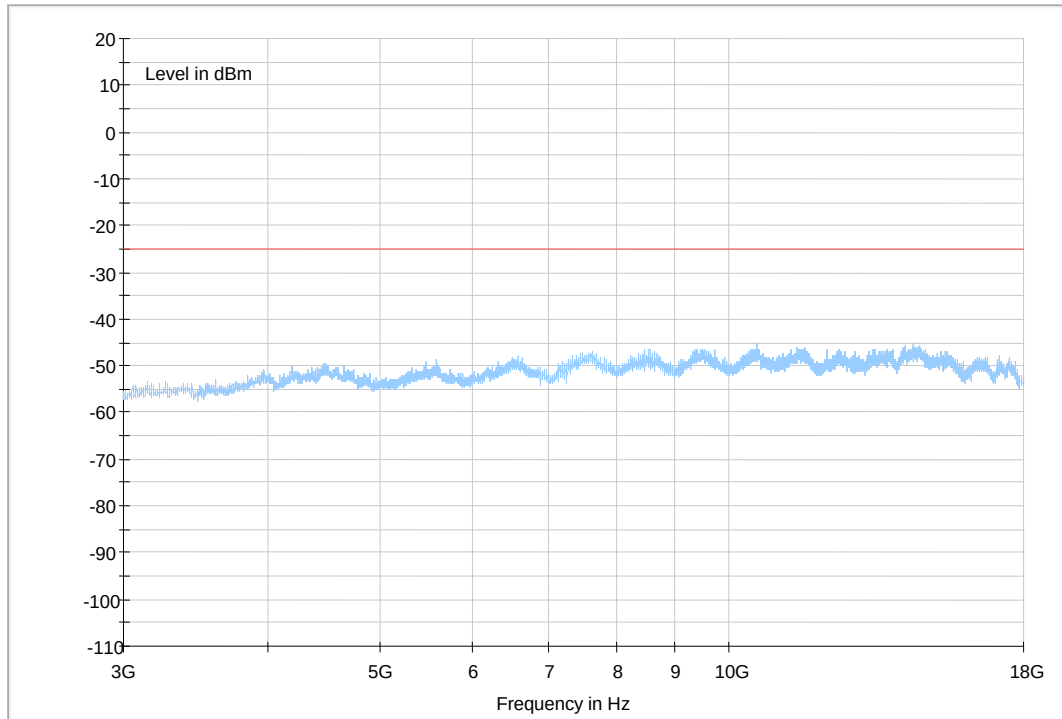


(30MHz~3GHz)



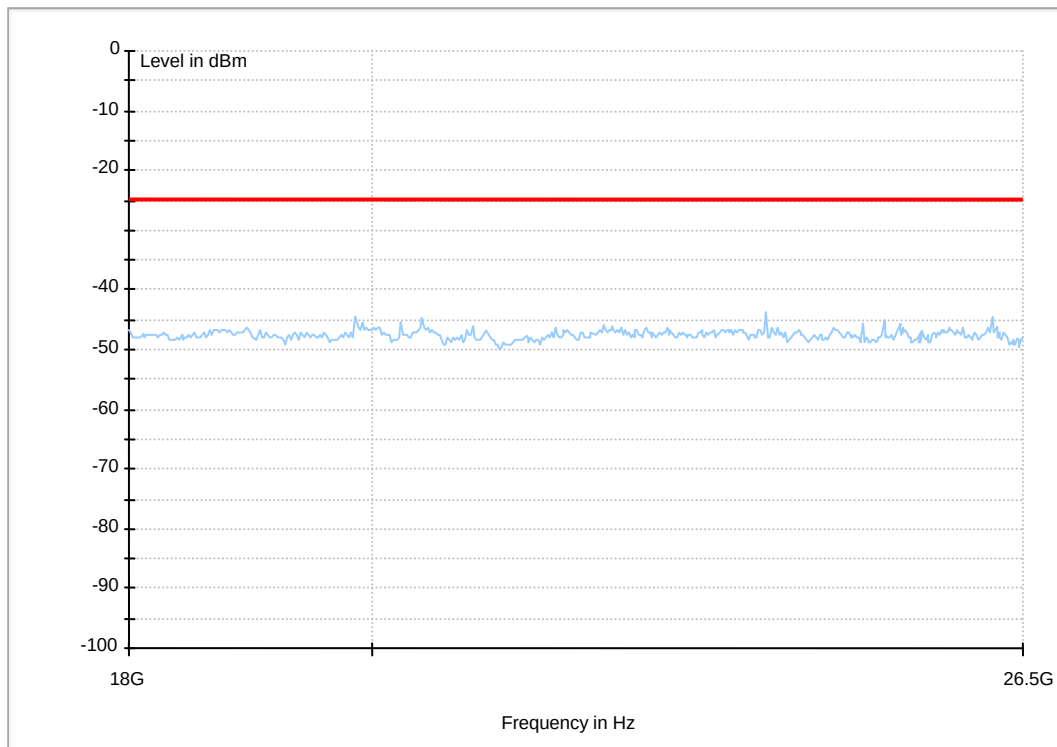


(3GHz~18GHz)





(18GHz~26.5GHz)



-----END-----



Appendix G

Frequency Stability

According to FCC Part 2.1055 & Part 27.54 & RSS-139



Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1(5M)	M	VN	-30 °C	25	0.00986	---	±2.5	Pass
			-20 °C	-19	-0.00750	---	±2.5	Pass
			-10 °C	25	0.00986	---	±2.5	Pass
			0 °C	-19	-0.00750	---	±2.5	Pass
			10 °C	8	0.00316	---	±2.5	Pass
			20 °C	-8	-0.00316	---	±2.5	Pass
			30 °C	21	0.00828	---	±2.5	Pass
			40 °C	-13	-0.00513	---	±2.5	Pass
TM1(10 M)	M	VN	50 °C	13	0.00513	---	±2.5	Pass
			-30 °C	-16	-0.00631	---	±2.5	Pass
			-20 °C	18	0.00710	---	±2.5	Pass
			-10 °C	13	0.00513	---	±2.5	Pass
			0 °C	-17	-0.00671	---	±2.5	Pass
			10 °C	26	0.01026	---	±2.5	Pass
			20 °C	8	0.00316	---	±2.5	Pass
			30 °C	10	0.00394	---	±2.5	Pass
TM1(15 M)	M	VN	40 °C	29	0.01144	---	±2.5	Pass
			50 °C	14	0.00552	---	±2.5	Pass
			-30 °C	24	0.00947	---	±2.5	Pass
			-20 °C	-11	-0.00434	---	±2.5	Pass
			-10 °C	8	0.00316	---	±2.5	Pass
			0 °C	-22	-0.00868	---	±2.5	Pass
			10 °C	7	0.00276	---	±2.5	Pass
			20 °C	10	0.00394	---	±2.5	Pass
TM1(20 M)	M	VN	30 °C	-25	-0.00986	---	±2.5	Pass
			40 °C	25	0.00986	---	±2.5	Pass
			50 °C	16	0.00631	---	±2.5	Pass
			-30 °C	24	0.00947	---	±2.5	Pass
			-20 °C	-14	-0.00552	---	±2.5	Pass
			-10 °C	15	0.00592	---	±2.5	Pass
			0 °C	-13	-0.00513	---	±2.5	Pass
			10 °C	-19	-0.00750	---	±2.5	Pass
			20 °C	25	0.00986	---	±2.5	Pass
			30 °C	-15	-0.00592	---	±2.5	Pass
			40 °C	-8	-0.00316	---	±2.5	Pass
			50 °C	-20	-0.00789	---	±2.5	Pass



Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM2(5M)	M	VN	-30 °C	-11	-0.00585	---	±2.5	Pass
			-20 °C	16	0.00851	---	±2.5	Pass
			-10 °C	-12	-0.00638	---	±2.5	Pass
			0 °C	16	0.00851	---	±2.5	Pass
			10 °C	17	0.00904	---	±2.5	Pass
			20 °C	-6	-0.00319	---	±2.5	Pass
			30 °C	15	0.00798	---	±2.5	Pass
			40 °C	15	0.00798	---	±2.5	Pass
			50 °C	11	0.00585	---	±2.5	Pass
TM2(10 M)	M	VN	-30 °C	15	0.00798	---	±2.5	Pass
			-20 °C	-9	-0.00479	---	±2.5	Pass
			-10 °C	14	0.00745	---	±2.5	Pass
			0 °C	-16	-0.00851	---	±2.5	Pass
			10 °C	-15	-0.00798	---	±2.5	Pass
			20 °C	-8	-0.00426	---	±2.5	Pass
			30 °C	15	0.00798	---	±2.5	Pass
			40 °C	-12	-0.00638	---	±2.5	Pass
			50 °C	-16	-0.00851	---	±2.5	Pass
TM2(15 M)	M	VN	-30 °C	15	0.00798	---	±2.5	Pass
			-20 °C	10	0.00532	---	±2.5	Pass
			-10 °C	-12	-0.00638	---	±2.5	Pass
			0 °C	-16	-0.00851	---	±2.5	Pass
			10 °C	13	0.00691	---	±2.5	Pass
			20 °C	-18	-0.00957	---	±2.5	Pass
			30 °C	15	0.00798	---	±2.5	Pass
			40 °C	-15	-0.00798	---	±2.5	Pass
			50 °C	-11	-0.00585	---	±2.5	Pass
TM2(20 M)	M	VN	-30 °C	16	0.00851	---	±2.5	Pass
			-20 °C	-12	-0.00638	---	±2.5	Pass
			-10 °C	16	0.00851	---	±2.5	Pass
			0 °C	17	0.00904	---	±2.5	Pass
			10 °C	-6	-0.00319	---	±2.5	Pass
			20 °C	15	0.00798	---	±2.5	Pass
			30 °C	15	0.00798	---	±2.5	Pass
			40 °C	11	0.00585	---	±2.5	Pass
			50 °C	15	0.00798	---	±2.5	Pass



Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1(5M)	M	20 °C	VL	-14	-0.00552	---	±2.5	Pass
			VN	-21	-0.00828	---	±2.5	Pass
			VH	-16	-0.00631	---	±2.5	Pass
TM1(10 M)	M	20 °C	VL	-15	-0.00592	---	±2.5	Pass
			VN	13	0.00513	---	±2.5	Pass
			VH	-23	-0.00907	---	±2.5	Pass
TM1(15 M)	M	20 °C	VL	24	0.00947	---	±2.5	Pass
			VN	28	0.01105	---	±2.5	Pass
			VH	-20	-0.00789	---	±2.5	Pass
TM1(20 M)	M	20 °C	VL	-7	-0.00276	---	±2.5	Pass
			VN	17	0.00671	---	±2.5	Pass
			VH	17	0.00671	---	±2.5	Pass
TM2(5M)	M	20 °C	VL	12	0.00638	---	±2.5	Pass
			VN	-11	-0.00585	---	±2.5	Pass
			VH	14	0.00745	---	±2.5	Pass
TM2(10 M)	M	20 °C	VL	-5	-0.00266	---	±2.5	Pass
			VN	13	0.00691	---	±2.5	Pass
			VH	6	0.00319	---	±2.5	Pass
TM2(15 M)	M	20 °C	VL	12	0.00638	---	±2.5	Pass
			VN	-6	-0.00319	---	±2.5	Pass
			VH	-16	-0.00851	---	±2.5	Pass
TM2(20 M)	M	20 °C	VL	12	0.00638	---	±2.5	Pass
			VN	11	0.00585	---	±2.5	Pass
			VH	15	0.00798	---	±2.5	Pass

-----The END-----



FCC Test Report of B890-66
FCC ID: QISB890
IC: 6369A-B890



Appendix H

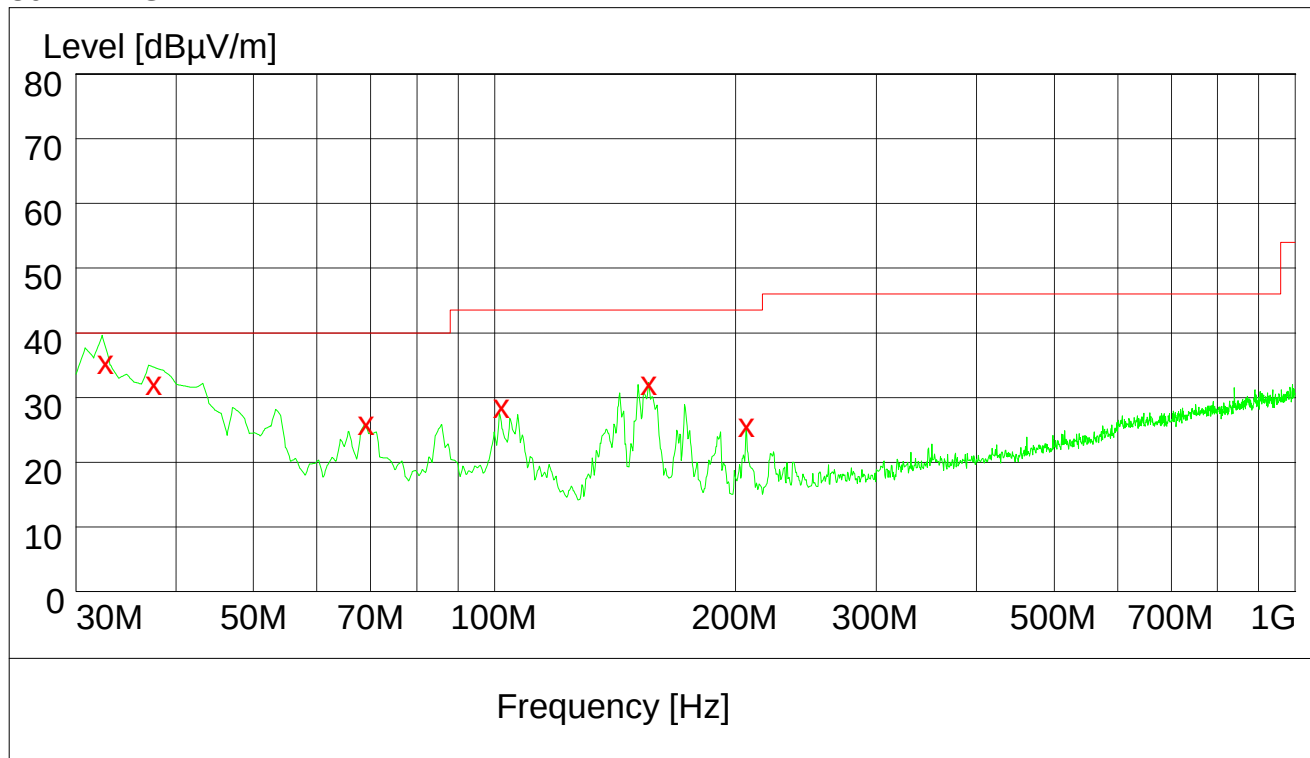
Receiver Spurious Emissions

According to RSS-199



This test was carried out in all the test modes, Here only the worst test result was shown.

30MHz-1GHz

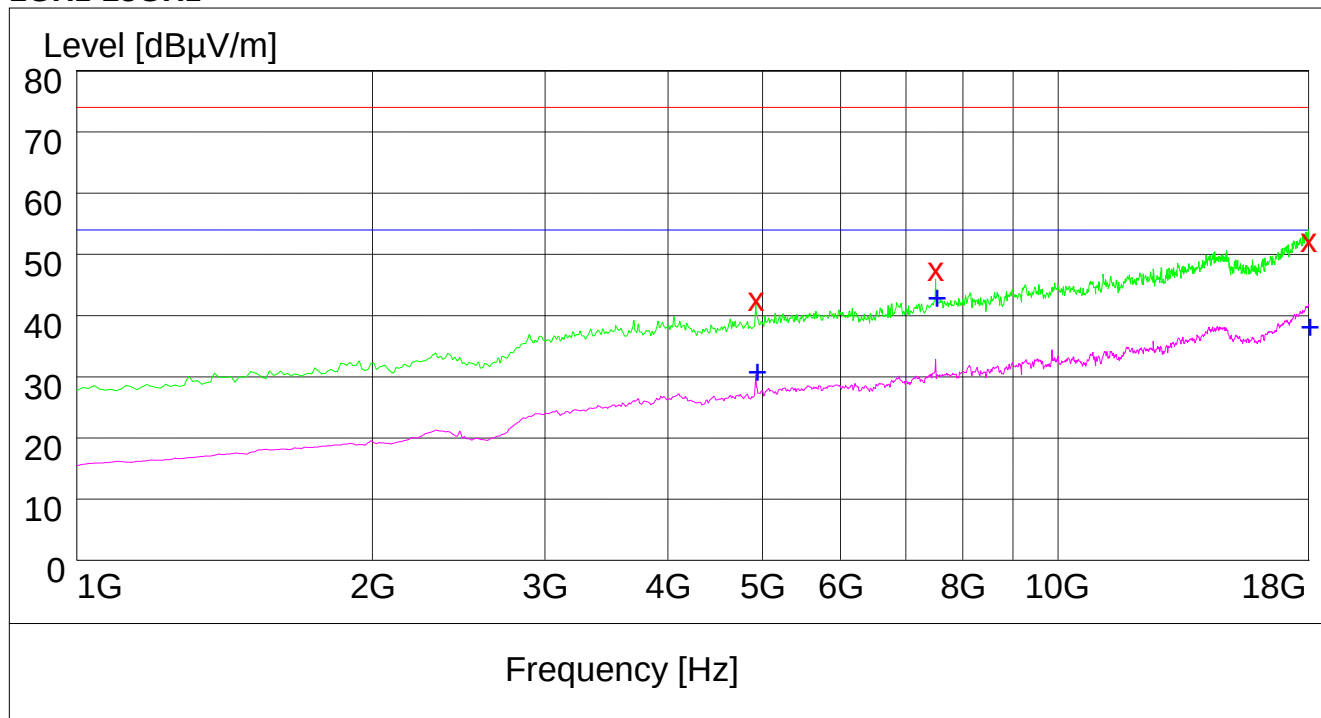


MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.640000	35.80	14.7	40.0	4.2	100.0	359.00	VERTICAL
37.500000	32.50	15.2	40.0	7.5	114.0	341.00	VERTICAL
69.120000	26.60	11.1	40.0	13.4	136.0	85.00	VERTICAL
101.880000	28.00	13.4	43.5	15.5	109.0	263.00	VERTICAL
155.640000	31.90	10.0	43.5	11.6	100.0	84.00	VERTICAL
206.220000	26.30	12.4	43.5	17.2	163.0	326.00	HORIZONTAL



1GHz-18GHz



MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4923.800000	42.80	-2.5	74.0	31.2	100.0	46.00	VERTICAL
7500.300000	48.00	3.7	74.0	26.0	100.0	318.00	HORIZONTAL
17992.400000	52.00	19.4	74.0	22.0	100.0	280.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4923.800000	31.20	-2.5	54.0	22.8	100.0	24.00	VERTICAL
7500.300000	43.60	3.7	54.0	10.4	100.0	316.00	HORIZONTAL
17993.500000	38.20	19.4	54.0	15.8	100.0	216.00	VERTICAL

-----The END-----