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Above 1GHz Test results:

LTE Band2:

Band	Modulation	CB	No.fo RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)	
2	QPSK	1.4	3	1	1850.7	3701.40	Vertical	-40.87	-13.00	-27.87	
						5552.10		-36.62	-13.00	-23.62	
						7402.80		-48.24	-13.00	-35.24	
						3701.40	Horizontal	-36.22	-13.00	-23.22	
						5552.10		-40.13	-13.00	-27.13	
						7402.80		-48.93	-13.00	-35.93	
			3	0	1880	3760.00	Vertical	-35.62	-13.00	-22.62	
						5640.00		-35.21	-13.00	-22.21	
						7520.00		-48.85	-13.00	-35.85	
						3760.00	Horizontal	-35.26	-13.00	-22.26	
						5640.00		-39.77	-13.00	-26.77	
						7520.00		-48.82	-13.00	-35.82	
		3	0	1909.3	3818.60	Vertical	-34.98	-13.00	-21.98		
					5727.90		-36.50	-13.00	-23.50		
					7637.20		-48.79	-13.00	-35.79		
					3818.60	Horizontal	-37.91	-13.00	-24.91		
					5727.90		-38.28	-13.00	-25.28		
					7637.20		-48.61	-13.00	-35.61		
	16QAM	3	1	14	1851.5	3703.00	Vertical	-37.23	-13.00	-24.23	
						5554.50		-36.60	-13.00	-23.60	
						7406.00		-48.44	-13.00	-35.44	
						3703.00	Horizontal	-33.24	-13.00	-20.24	
						5554.50		-35.63	-13.00	-22.63	
						7406.00		-48.16	-13.00	-35.16	
			15	0	1880	3760.00	Vertical	-40.15	-13.00	-27.15	
						5640.00		-41.21	-13.00	-28.21	
						7520.00		-48.78	-13.00	-35.78	
						3760.00	Horizontal	-40.20	-13.00	-27.20	
						5640.00		-41.71	-13.00	-28.71	
						7520.00		-48.34	-13.00	-35.34	
		1	14	1908.5	3817.00	Vertical	-35.45	-13.00	-22.45		
					5725.50		-37.02	-13.00	-24.02		
					7634.00		-48.25	-13.00	-35.25		
					3817.00	Horizontal	-35.28	-13.00	-22.28		
					5725.50		-40.64	-13.00	-27.64		
					7634.00		-47.92	-13.00	-34.92		
		16QAM	5	1	24	1852.5	3705.00	Vertical	-36.92	-13.00	-23.92
							5557.50		-35.60	-13.00	-22.60
							7410.00		-49.16	-13.00	-36.16
							3705.00	Horizontal	-34.36	-13.00	-21.36
							5557.50		-36.24	-13.00	-23.24
							7410.00		-48.70	-13.00	-35.70
	1			24	1880	3760.00	Vertical	-33.45	-13.00	-20.45	
						5640.00		-33.00	-13.00	-20.00	
						7520.00		-49.02	-13.00	-36.02	
						3760.00	Horizontal	-34.74	-13.00	-21.74	
						5640.00		-39.44	-13.00	-26.44	
						7520.00		-48.67	-13.00	-35.67	
	25		0	1907.5	3815.00	Vertical	-42.77	-13.00	-29.77		
					5722.50		-42.03	-13.00	-29.03		
					7630.00		-48.83	-13.00	-35.83		
					3815.00	Horizontal	-44.74	-13.00	-31.74		
					5722.50		-43.26	-13.00	-30.26		
					7630.00		-48.80	-13.00	-35.80		

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2	16QAM	10	1	49	1855	3710.00	Vertical	-35.26	-13.00	-22.26
						5565.00		-32.03	-13.00	-19.03
						7420.00		-48.39	-13.00	-35.39
						3710.00	Horizontal	-33.38	-13.00	-20.38
						5565.00		-36.25	-13.00	-23.25
						7420.00		-48.48	-13.00	-35.48
			1	24	1880	3760.00	Vertical	-34.64	-13.00	-21.64
						5640.00		-34.88	-13.00	-21.88
						7520.00		-48.95	-13.00	-35.95
						3760.00	Horizontal	-33.50	-13.00	-20.50
						5640.00		-38.82	-13.00	-25.82
						7520.00		-48.17	-13.00	-35.17
	QPSK	15	1	49	1905	3810.00	Vertical	-35.48	-13.00	-22.48
						5715.00		-36.90	-13.00	-23.90
						7620.00		-49.41	-13.00	-36.41
						3810.00	Horizontal	-34.68	-13.00	-21.68
						5715.00		-40.36	-13.00	-27.36
						7620.00		-48.74	-13.00	-35.74
			75	0	1857.5	3715.00	Vertical	-41.20	-13.00	-28.20
						5572.50		-42.27	-13.00	-29.27
						7430.00		-47.43	-13.00	-34.43
						3715.00	Horizontal	-42.58	-13.00	-29.58
						5572.50		-45.35	-13.00	-32.35
						7430.00		-48.58	-13.00	-35.58
			1	38	1880	3760.00	Vertical	-35.54	-13.00	-22.54
						5640.00		-38.65	-13.00	-25.65
						7520.00		-48.93	-13.00	-35.93
						3760.00	Horizontal	-33.55	-13.00	-20.55
						5640.00		-39.42	-13.00	-26.42
						7520.00		-48.59	-13.00	-35.59
			75	0	1902.5	3805.00	Vertical	-44.76	-13.00	-31.76
						5707.50		-43.77	-13.00	-30.77
						7610.00		-48.41	-13.00	-35.41
						3805.00	Horizontal	-45.20	-13.00	-32.20
						5707.50		-47.33	-13.00	-34.33
						7610.00		-48.91	-13.00	-35.91

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2	16QAM	20	1	49	1860	3720.00	Vertical	-35.80	-13.00	-22.80
						5580.00		-33.67	-13.00	-20.67
						7440.00		-48.60	-13.00	-35.60
						3720.00	Horizontal	-33.74	-13.00	-20.74
						5580.00		-36.88	-13.00	-23.88
						7440.00		-48.84	-13.00	-35.84
			1	49	1880	3760.00	Vertical	-36.87	-13.00	-23.87
						5640.00		-35.82	-13.00	-22.82
						7520.00		-48.76	-13.00	-35.76
						3760.00	Horizontal	-36.06	-13.00	-23.06
						5640.00		-40.05	-13.00	-27.05
						7520.00		-48.31	-13.00	-35.31
			1	99	1900	3800.00	Vertical	-36.50	-13.00	-23.50
						5700.00		-37.36	-13.00	-24.36
						7600.00		-48.60	-13.00	-35.60
						3800.00	Horizontal	-36.17	-13.00	-23.17
						5700.00		-40.15	-13.00	-27.15
						7600.00		-48.60	-13.00	-35.60

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Band	Modulation	CB	No.fo RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
25	QPSK	1.4	3	0	1850.70	3701.40	Vertical	-40.23	-13.00	-27.23
						5552.10		-38.62	-13.00	-25.62
						7402.80		-49.01	-13.00	-36.01
						3701.40	Horizontal	-44.95	-13.00	-31.95
						5552.10		-41.63	-13.00	-28.63
						7402.80		-48.41	-13.00	-35.41
			3	1	1882.50	3765.00	Vertical	-44.70	-13.00	-31.70
						5647.50		-40.06	-13.00	-27.06
						7530.00		-47.96	-13.00	-34.96
						3765.00	Horizontal	-47.76	-13.00	-34.76
						5647.50		-43.92	-13.00	-30.92
						7530.00		-49.02	-13.00	-36.02
	QPSK	3	3	0	1914.30	3828.60	Vertical	-38.22	-13.00	-25.22
						5742.90		-35.63	-13.00	-22.63
						7657.20		-49.08	-13.00	-36.08
						3828.60	Horizontal	-38.48	-13.00	-25.48
						5742.90		-40.39	-13.00	-27.39
						7657.20		-49.42	-13.00	-36.42
			1	8	1851.50	3703.00	Vertical	-38.79	-13.00	-25.79
						5554.50		-37.35	-13.00	-24.35
						7406.00		-48.85	-13.00	-35.85
						3703.00	Horizontal	-35.72	-13.00	-22.72
						5554.50		-38.25	-13.00	-25.25
						7406.00		-48.38	-13.00	-35.38
			1	14	1882.50	3765.00	Vertical	-34.24	-13.00	-21.24
						5647.50		-38.15	-13.00	-25.15
						7530.00		-48.29	-13.00	-35.29
						3765.00	Horizontal	-35.24	-13.00	-22.24
						5647.50		-41.03	-13.00	-28.03
						7530.00		-48.91	-13.00	-35.91
			15	0	1913.50	3827.00	Vertical	-43.51	-13.00	-30.51
						5740.50		-40.20	-13.00	-27.20
						7654.00		-49.03	-13.00	-36.03
						3827.00	Horizontal	-43.99	-13.00	-30.99
						5740.50		-44.24	-13.00	-31.24
						7654.00		-49.62	-13.00	-36.62

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25	16QAM	5	25	0	1852.50	3705.00	Vertical	-43.88	-13.00	-30.88
						5557.50		-43.36	-13.00	-30.36
						7410.00		-48.14	-13.00	-35.14
						3705.00	Horizontal	-41.33	-13.00	-28.33
						5557.50		-43.63	-13.00	-30.63
						7410.00		-49.07	-13.00	-36.07
		1	24	24	1882.50	3765.00	Vertical	-35.04	-13.00	-22.04
						5647.50		-36.36	-13.00	-23.36
						7530.00		-48.32	-13.00	-35.32
						3765.00	Horizontal	-35.75	-13.00	-22.75
						5647.50		-42.46	-13.00	-29.46
						7530.00		-49.05	-13.00	-36.05
	QPSK	5	25	0	1912.50	3825.00	Vertical	-44.04	-13.00	-31.04
						5737.50		-41.50	-13.00	-28.50
						7650.00		-49.28	-13.00	-36.28
						3825.00	Horizontal	-42.25	-13.00	-29.25
						5737.50		-46.85	-13.00	-33.85
						7650.00		-49.23	-13.00	-36.23
		10	50	0	1855.00	3710.00	Vertical	-47.45	-13.00	-34.45
						5565.00		-43.62	-13.00	-30.62
						7420.00		-49.17	-13.00	-36.17
						3710.00	Horizontal	-50.03	-13.00	-37.03
						5565.00		-44.74	-13.00	-31.74
						7420.00		-49.16	-13.00	-36.16
			50	0	1882.50	3765.00	Vertical	-43.68	-13.00	-30.68
						5647.50		-44.03	-13.00	-31.03
						7530.00		-48.60	-13.00	-35.60
						3765.00	Horizontal	-44.43	-13.00	-31.43
						5647.50		-45.41	-13.00	-32.41
						7530.00		-47.96	-13.00	-34.96
		50	50	0	1910.00	3820.00	Vertical	-48.42	-13.00	-35.42
						5730.00		-41.92	-13.00	-28.92
						7640.00		-49.06	-13.00	-36.06
						3820.00	Horizontal	-49.58	-13.00	-36.58
						5730.00		-42.20	-13.00	-29.20
						7640.00		-49.18	-13.00	-36.18

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Band	Modulation	CB	No.fo RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
	QPSK	15	1	0	1857.50	3715.00	Vertical	-46.81	-13.00	-33.81
						5572.50		-38.35	-13.00	-25.35
						7430.00		-48.88	-13.00	-35.88
						3715.00	Horizontal	-46.06	-13.00	-33.06
						5572.50		-41.59	-13.00	-28.59
						7430.00		-48.33	-13.00	-35.33
			1	38	1882.50	3765.00	Vertical	-44.56	-13.00	-31.56
						5647.50		-41.06	-13.00	-28.06
						7530.00		-48.79	-13.00	-35.79
						3765.00	Horizontal	-47.95	-13.00	-34.95
						5647.50		-44.45	-13.00	-31.45
						7530.00		-48.88	-13.00	-35.88
			75	0	1907.50	3815.00	Vertical	-48.91	-13.00	-35.91
						5722.50		-45.02	-13.00	-32.02
						7630.00		-49.54	-13.00	-36.54
						3815.00	Horizontal	-49.33	-13.00	-36.33
						5722.50		-45.45	-13.00	-32.45
						7630.00		-49.06	-13.00	-36.06
	16QAM	20	100	0	1860.00	3720.00	Vertical	-47.89	-13.00	-34.89
						5580.00		-45.46	-13.00	-32.46
						7440.00		-48.83	-13.00	-35.83
						3720.00	Horizontal	-51.01	-13.00	-38.01
						5580.00		-47.32	-13.00	-34.32
						7440.00		-48.75	-13.00	-35.75
			100	0	1882.50	3765.00	Vertical	-48.55	-13.00	-35.55
						5647.50		-46.24	-13.00	-33.24
						7530.00		-49.11	-13.00	-36.11
						3765.00	Horizontal	-49.92	-13.00	-36.92
						5647.50		-48.42	-13.00	-35.42
						7530.00		-48.52	-13.00	-35.52
			1	99	1905.00	3810.00	Vertical	-41.60	-13.00	-28.60
						5715.00		-37.53	-13.00	-24.53
						7620.00		-49.64	-13.00	-36.64
						3810.00	Horizontal	-45.90	-13.00	-32.90
						5715.00		-41.78	-13.00	-28.78
						7620.00		-48.60	-13.00	-35.60

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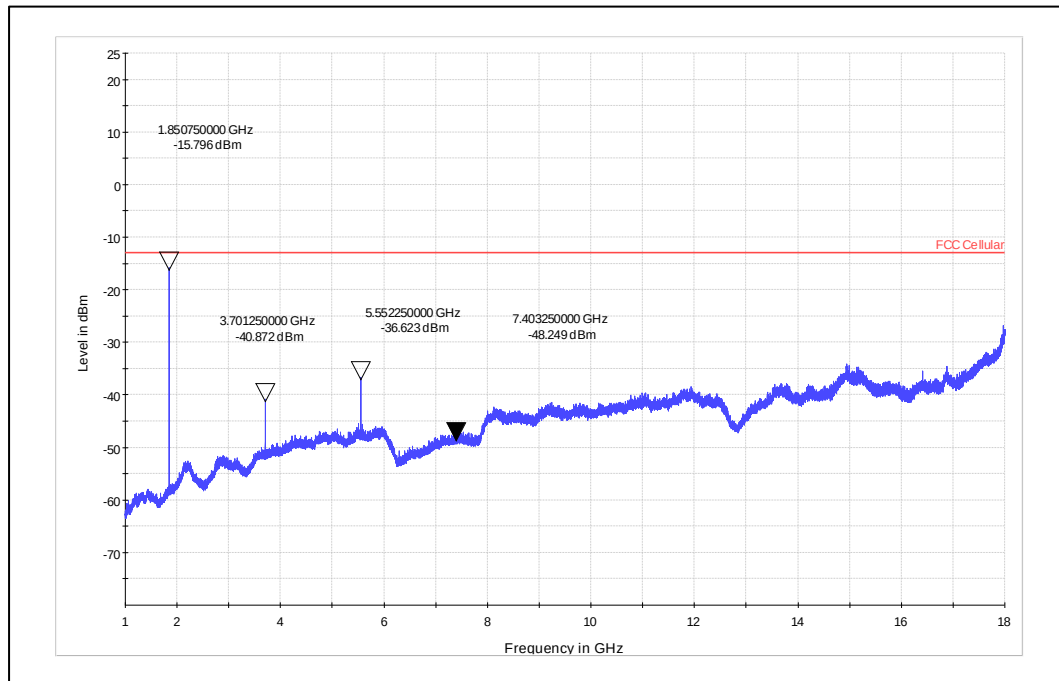
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LTE Test Plots:

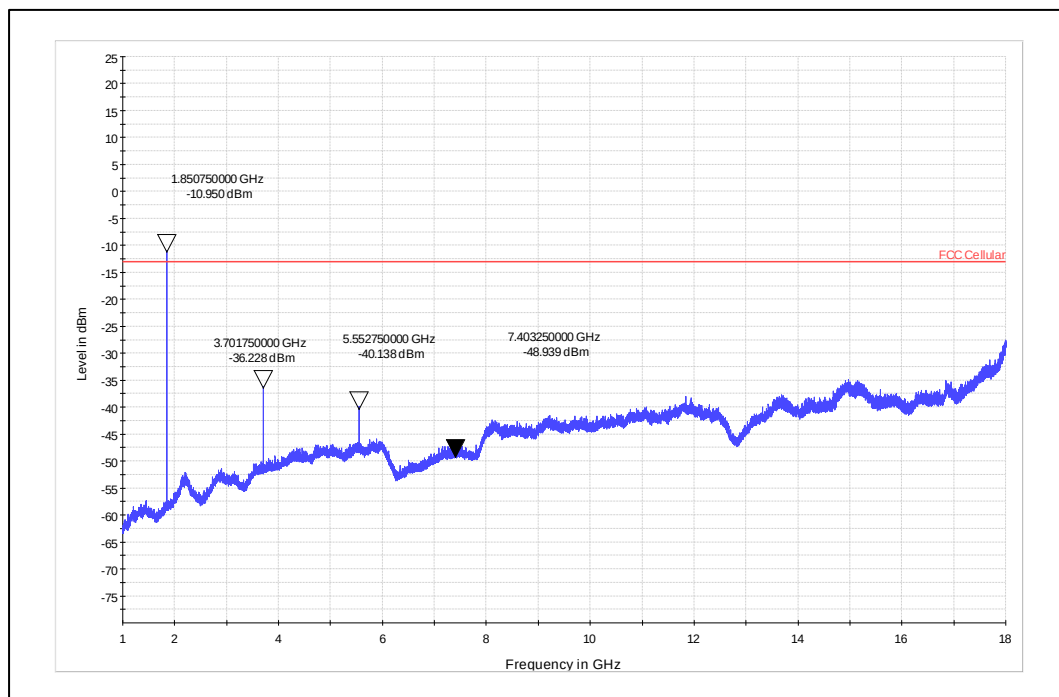
Cell Bandwidth: 1.4MHz

Channel Frequency: 1850.7MHz; Modulation: QPSK; 3RB#1



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

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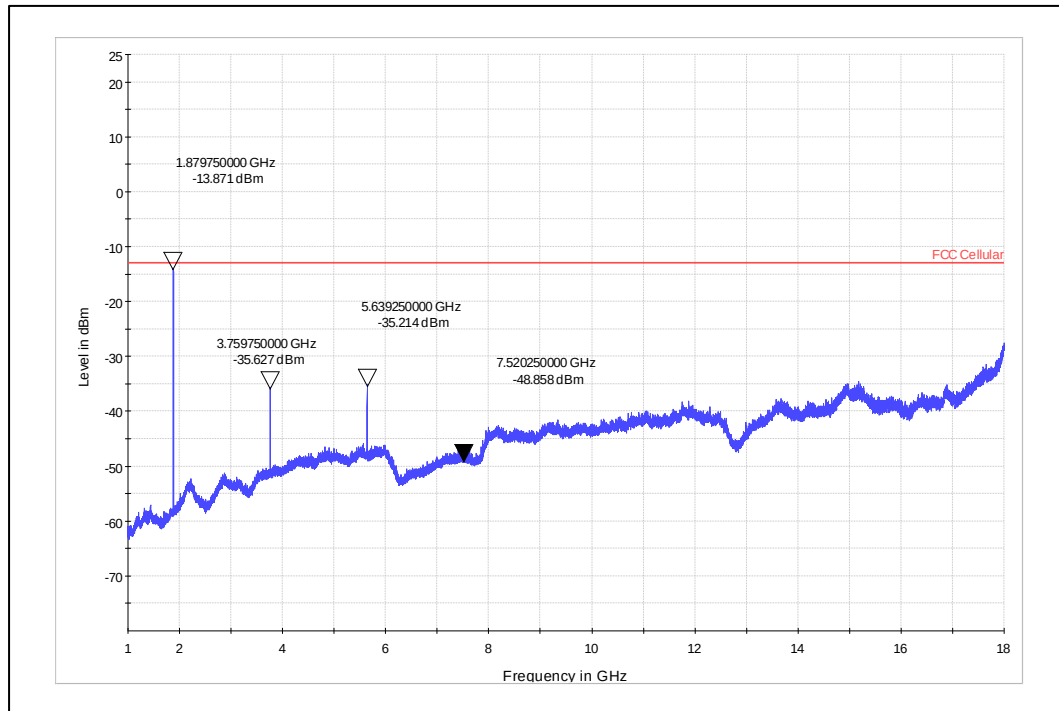
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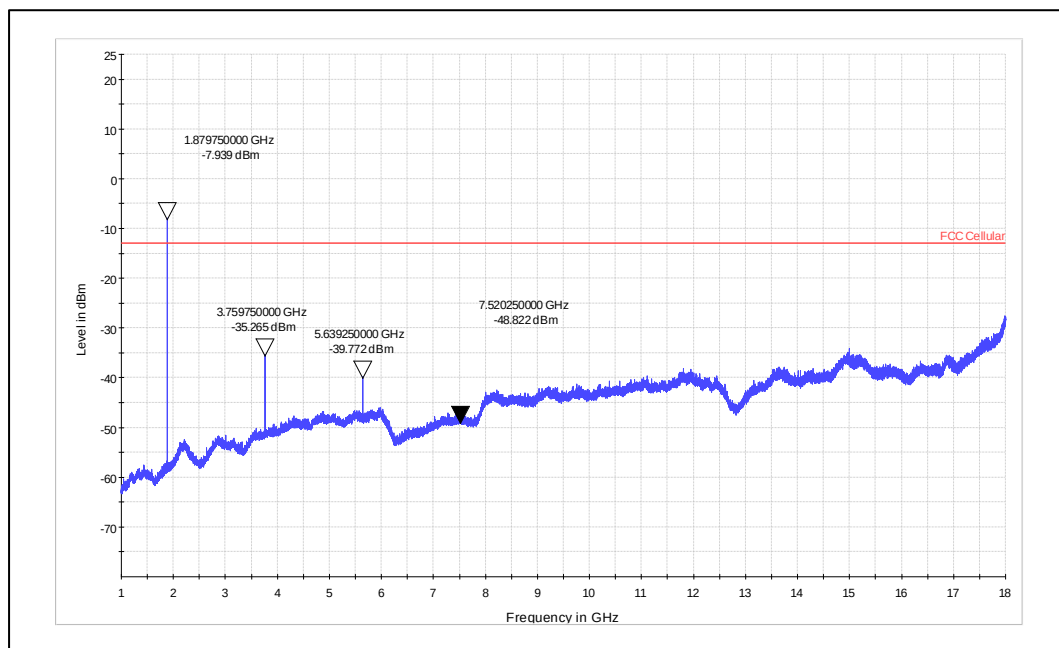
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Channel Frequency: 1880MHz; Modulation: QPSK; 3RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

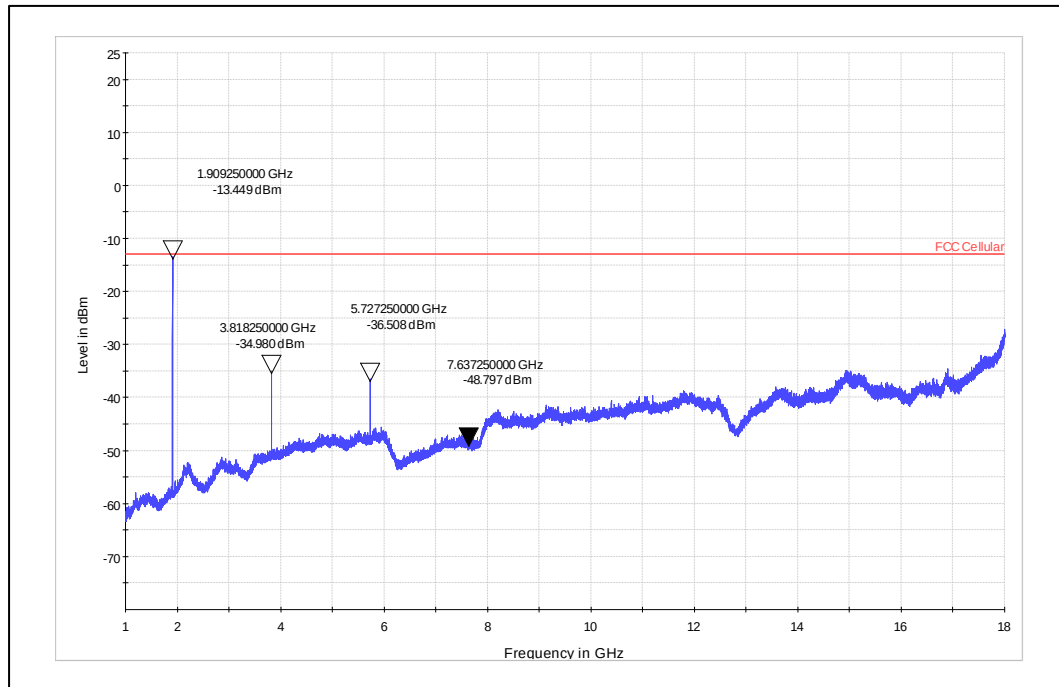
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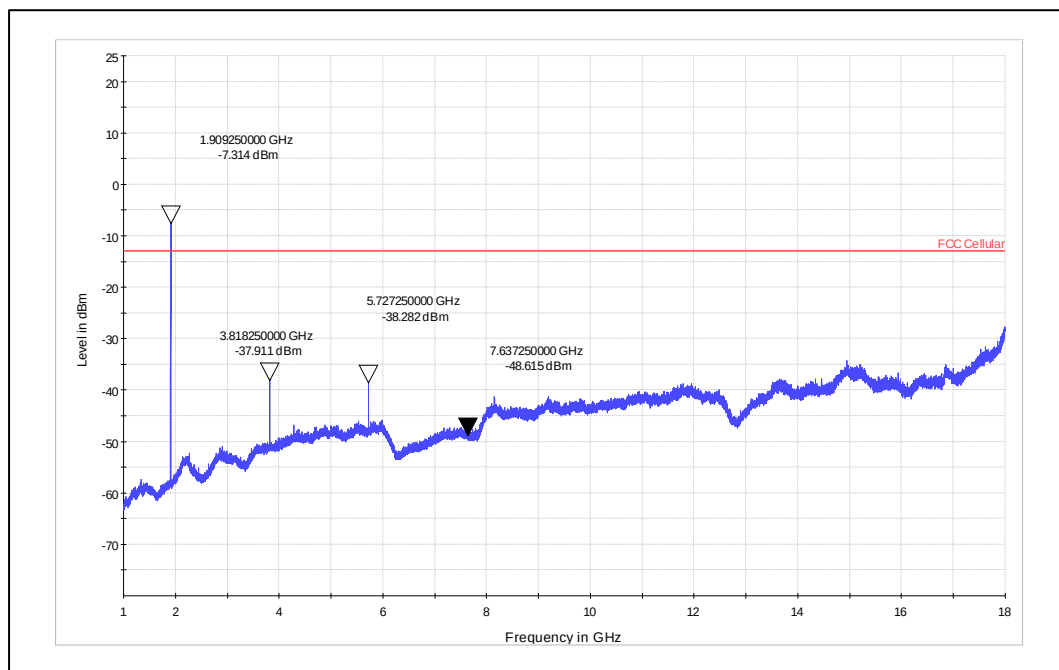
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Channel Frequency: 1909.3MHz; Modulation: QPSK; 3RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

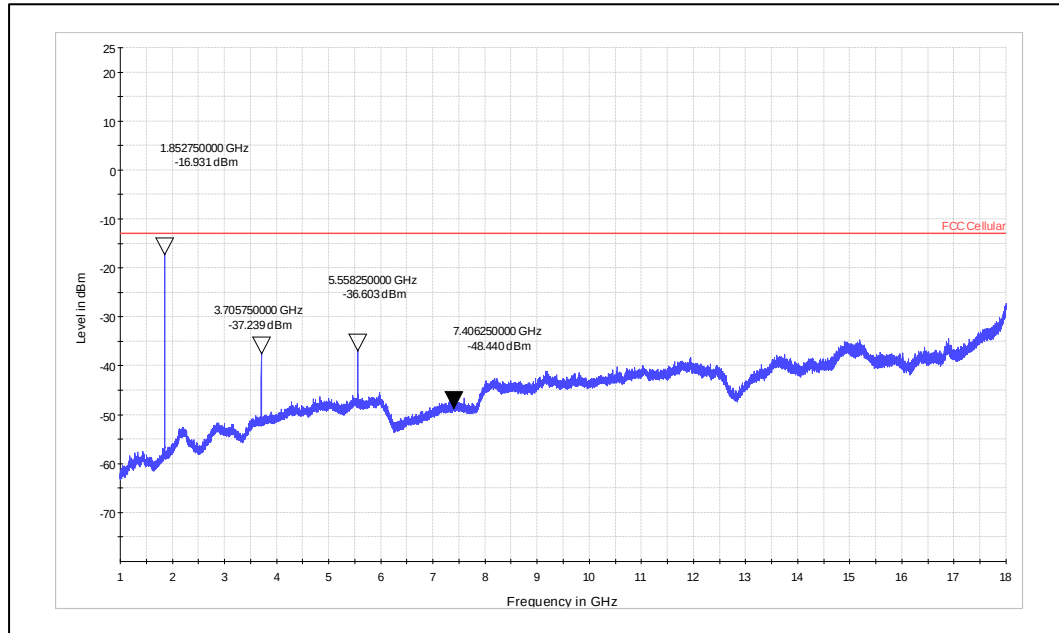
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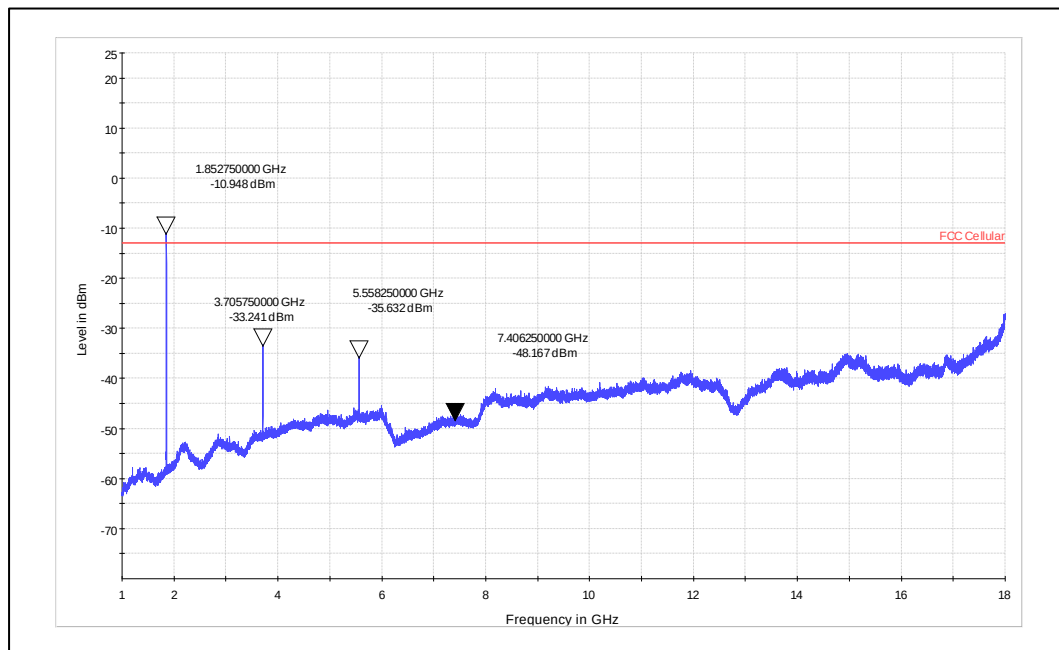
Cell Bandwidth: 3MHz

Channel Frequency: 1851.5MHz; Modulation: 16QAM; 1RB#14



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

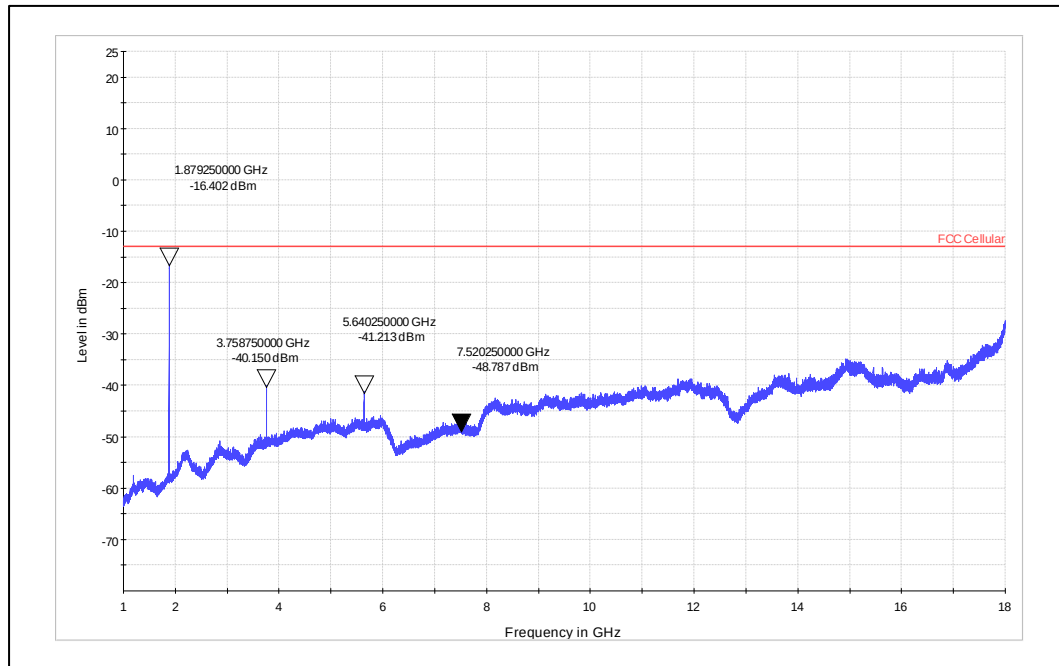
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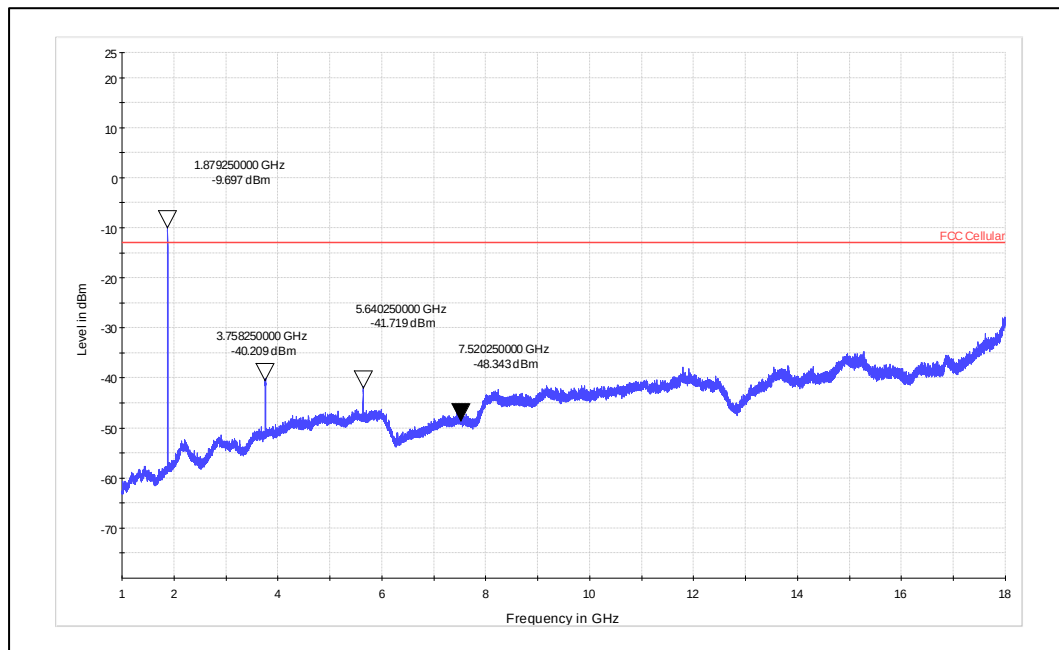
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Channel Frequency: 1880MHz; Modulation: 16QAM; 15RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

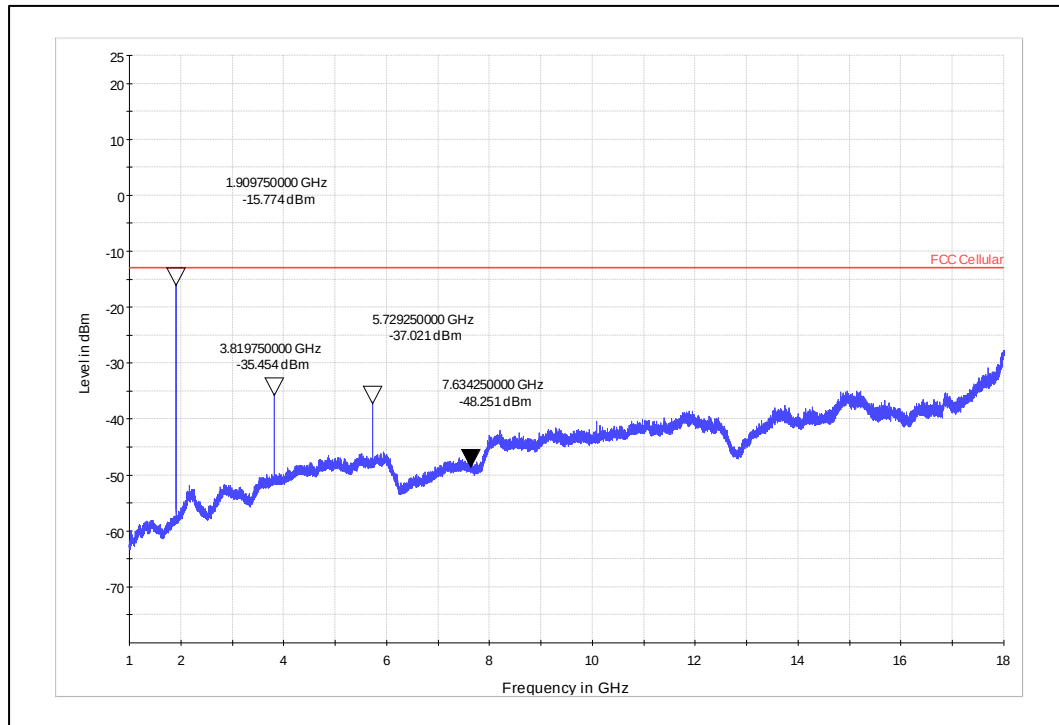
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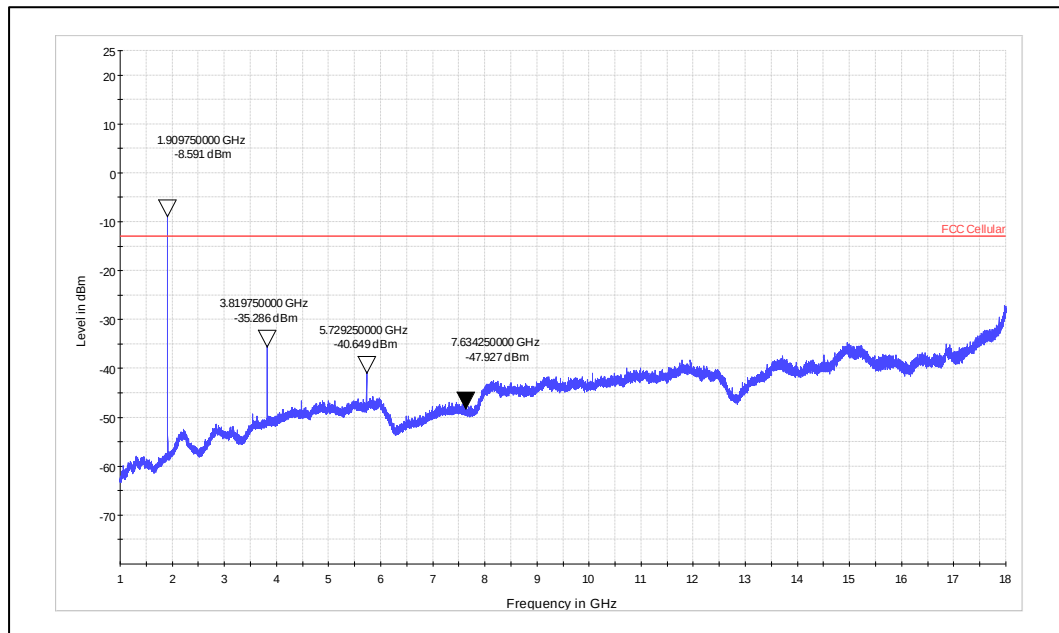
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Channel Frequency: 1908.5MHz; Modulation: 16QAM; 1RB#14



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

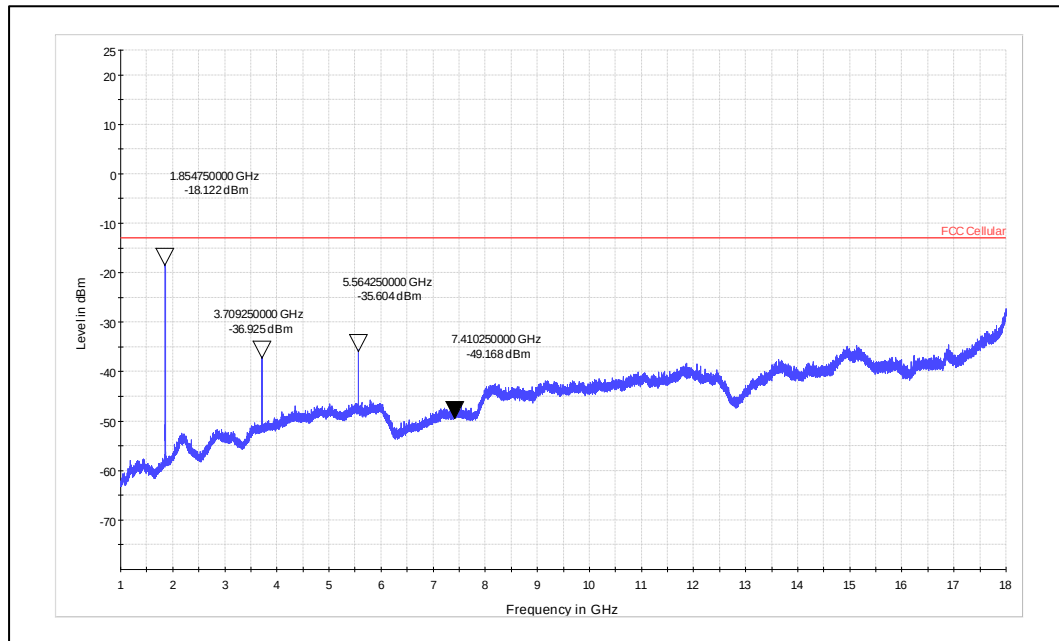
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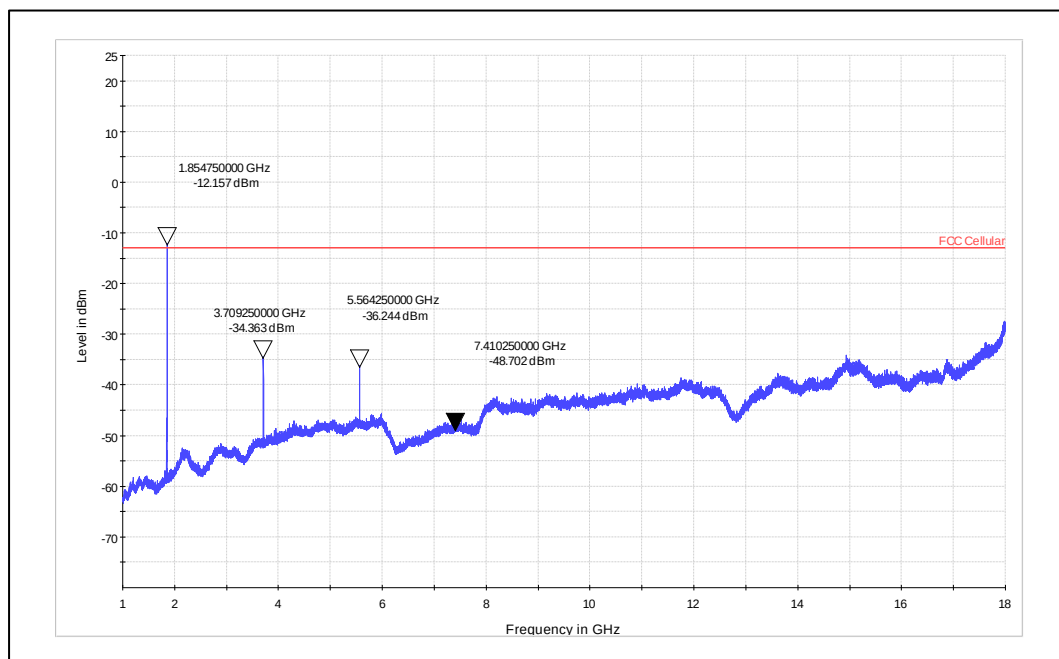
Cell Bandwidth: 5MHz

Channel Frequency: 1852.5MHz; Modulation: 16QAM; 1RB#24



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

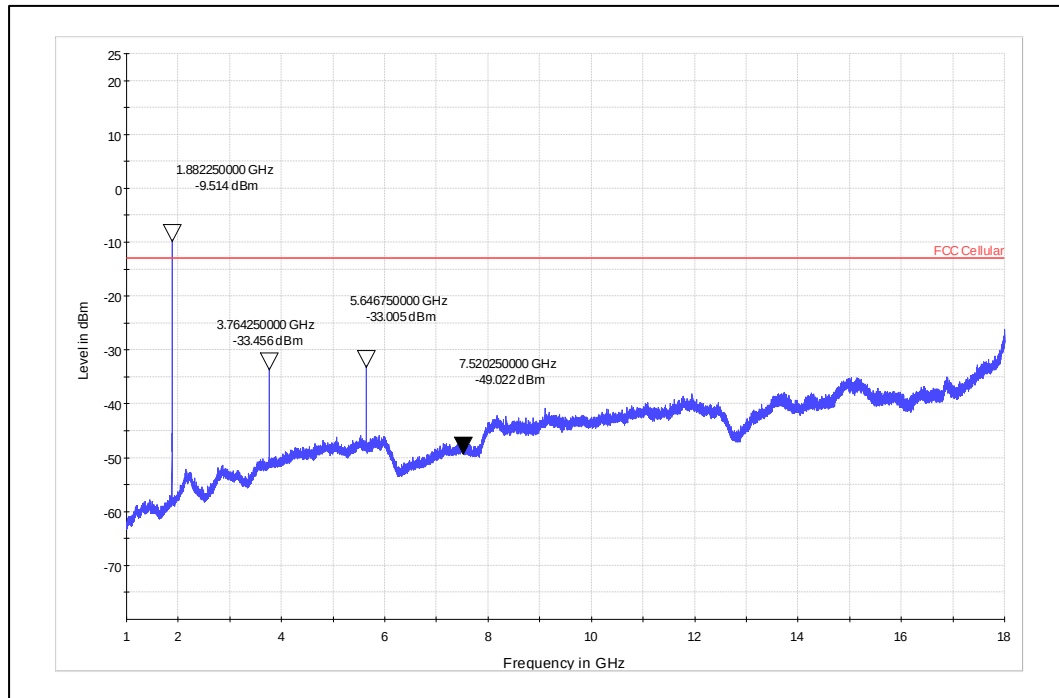
Antenna Polarization: Horizontal

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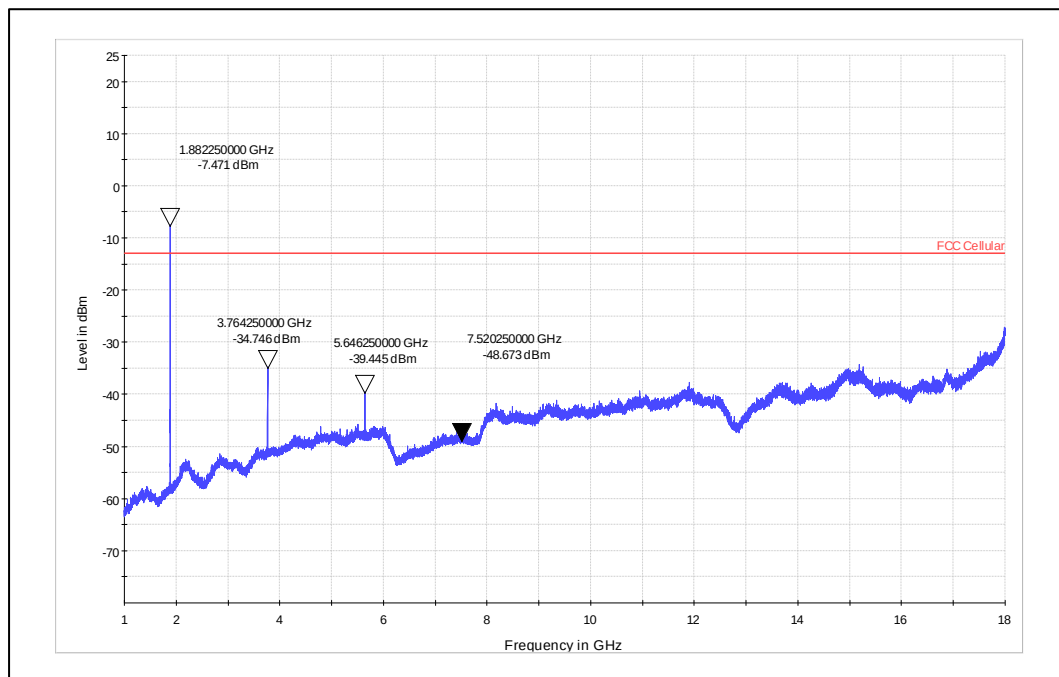
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Channel Frequency: 1880MHz; Modulation: 16QAM; 1RB#24



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

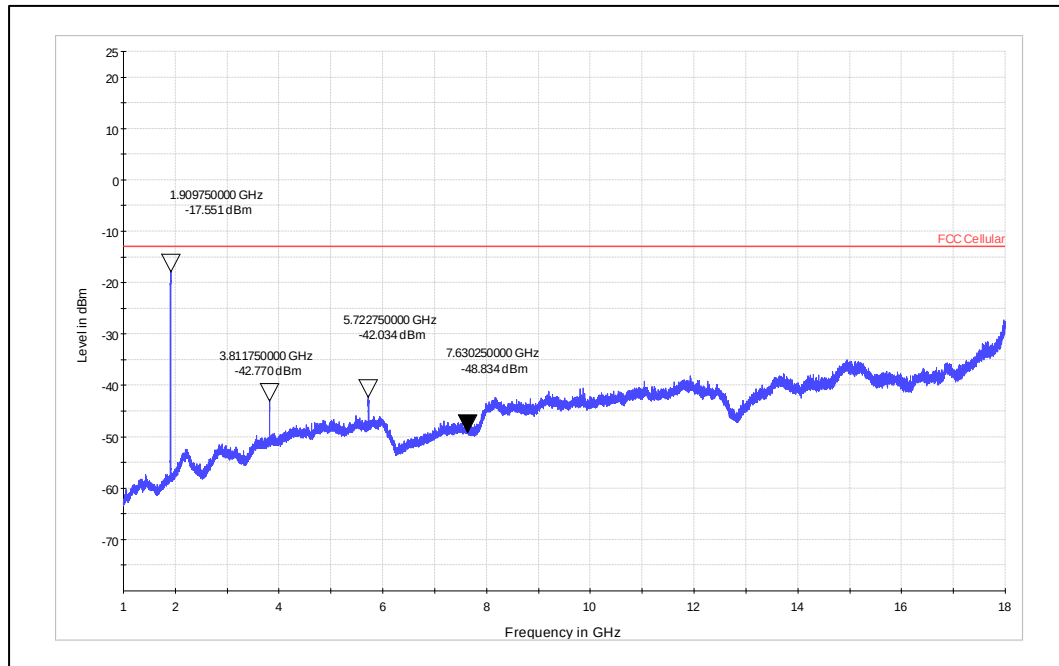
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

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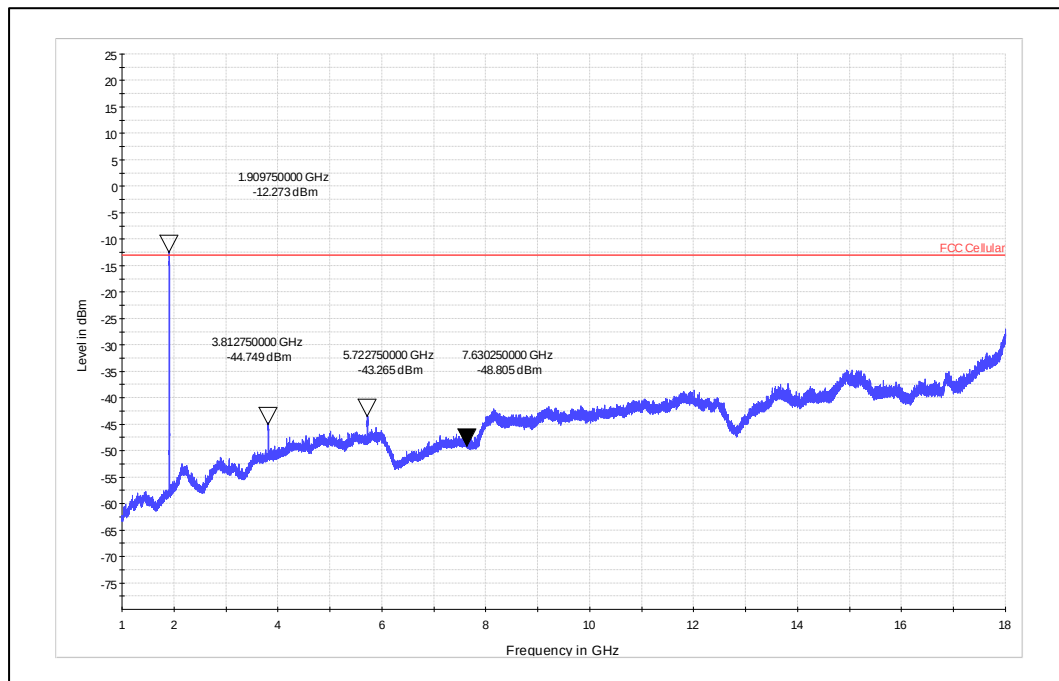
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Channel Frequency: 1907.5MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

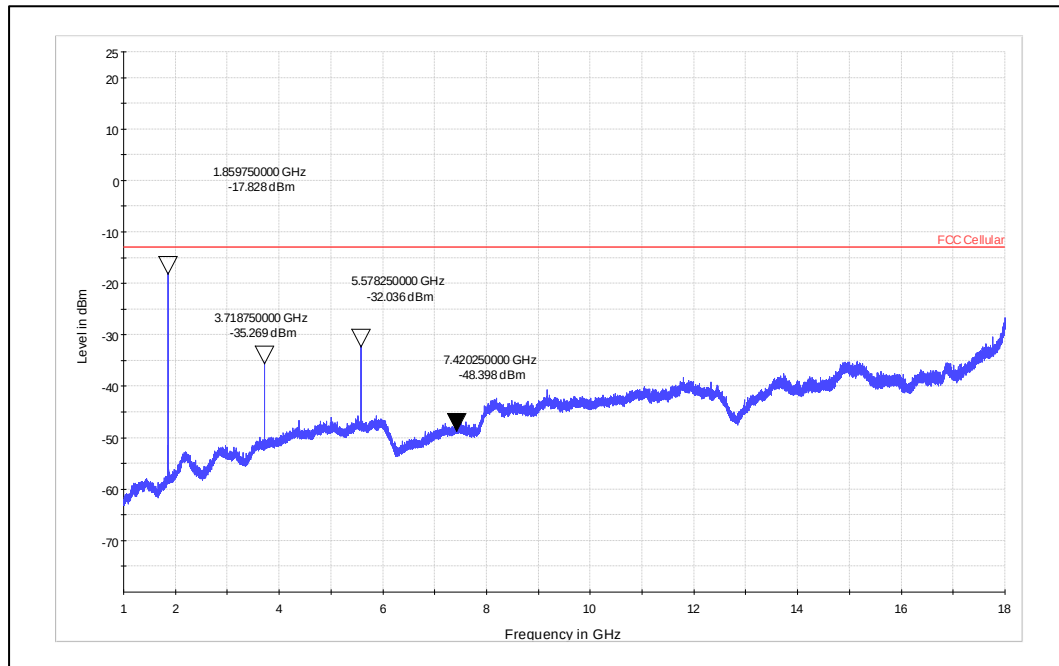
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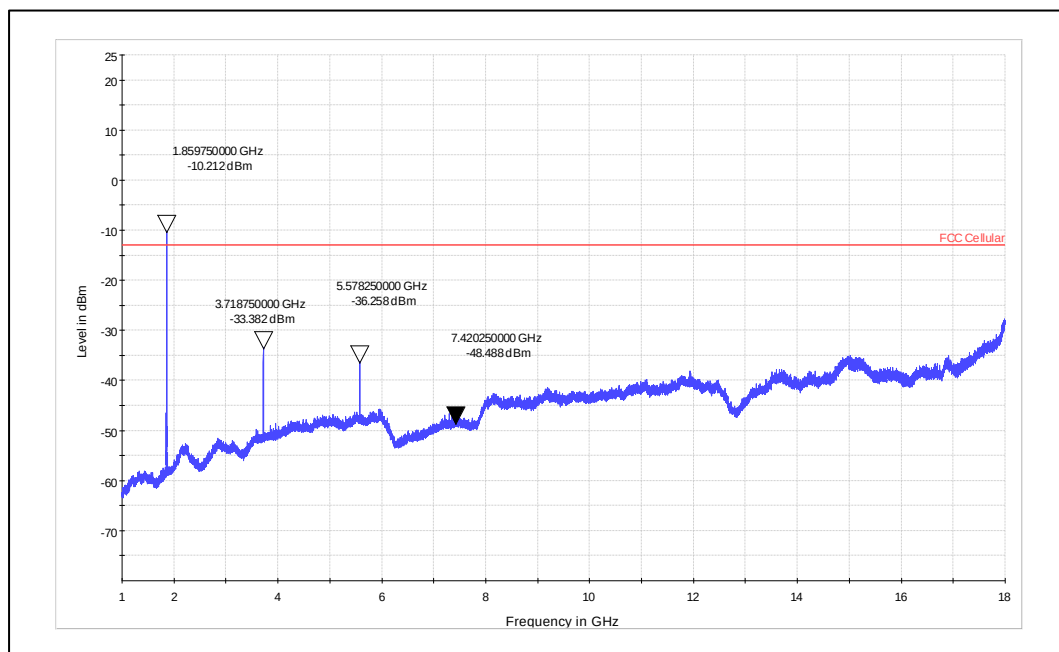
Cell Bandwidth: 10MHz

Channel Frequency: 1855MHz; Modulation: 16QAM; 1RB#48



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

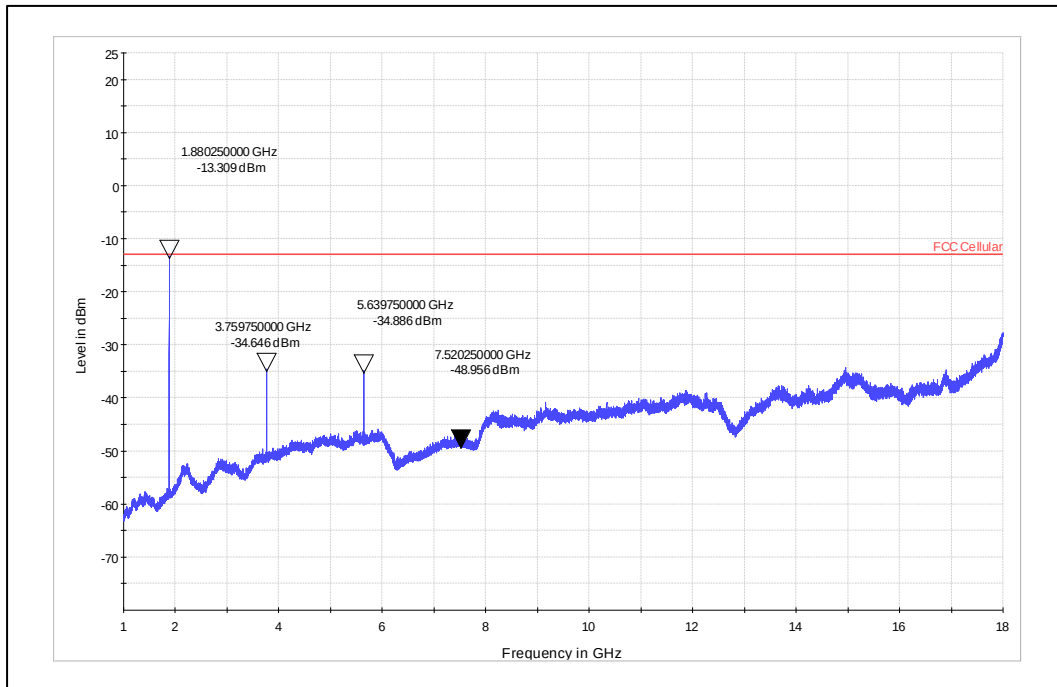
Antenna Polarization: Horizontal

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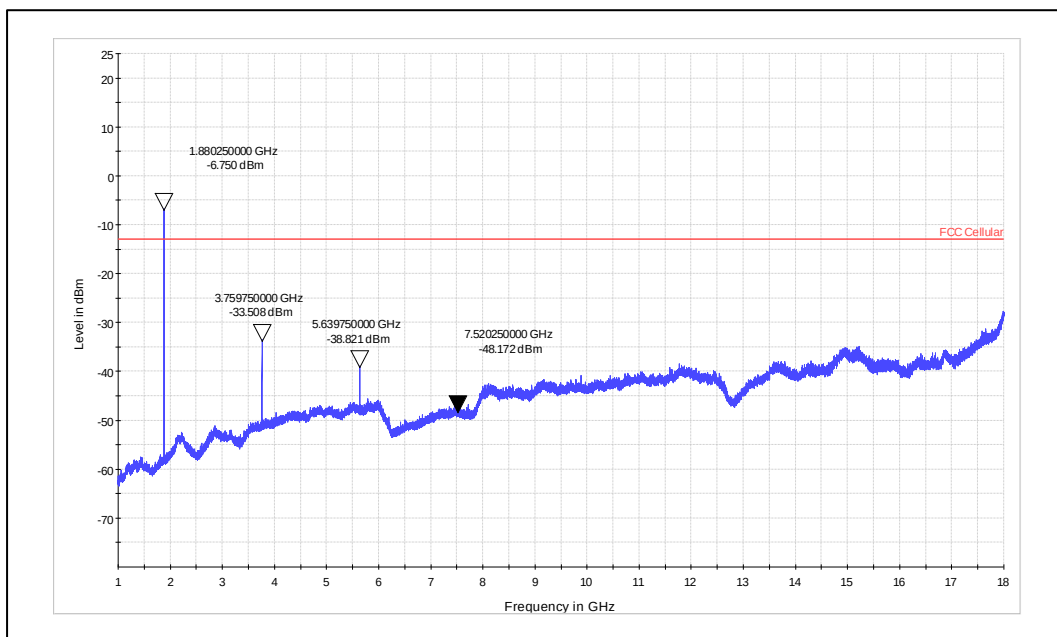
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Channel Frequency: 1880MHz; Modulation: 16QAM; 1RB#24



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

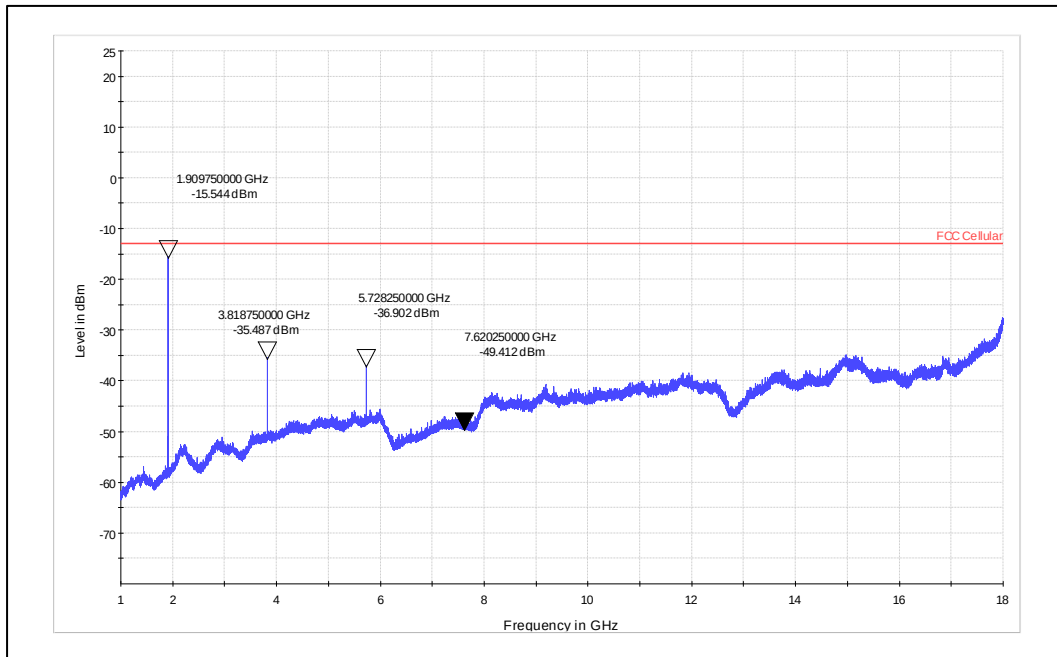
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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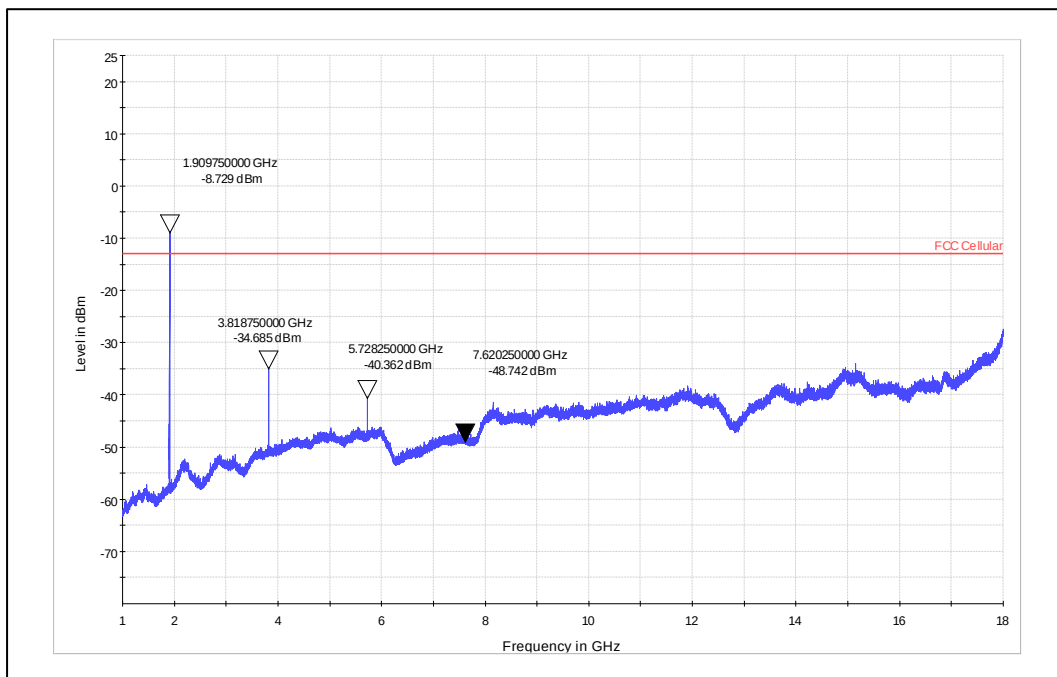
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Channel Frequency: 1905MHz; Modulation: 16QAM; 1RB#49



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

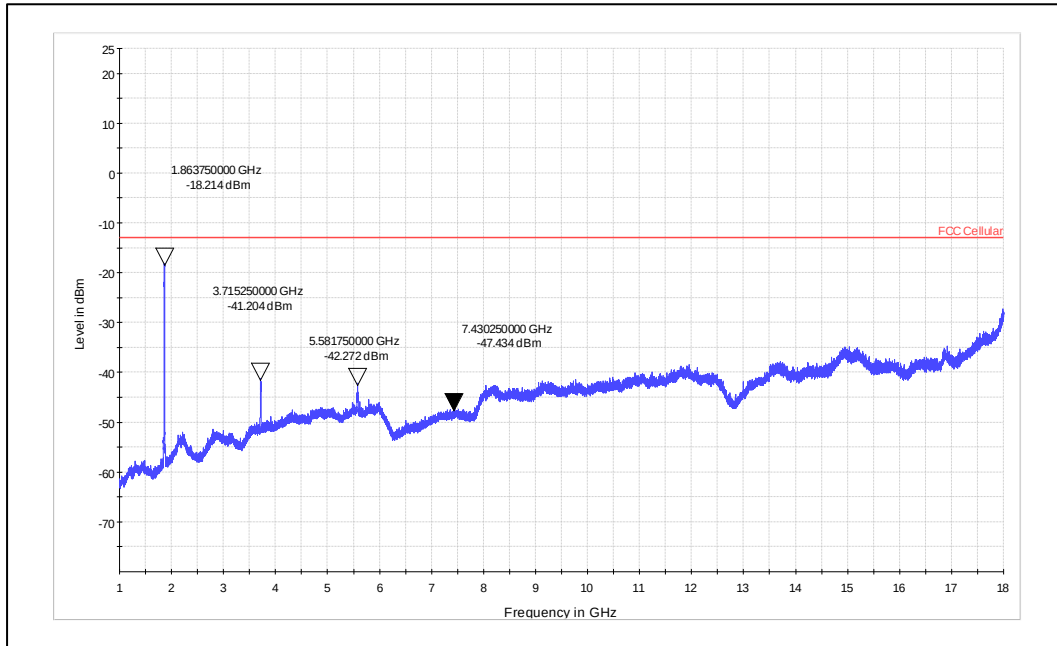
Prüfbericht - Nr.:
Test Report No.:

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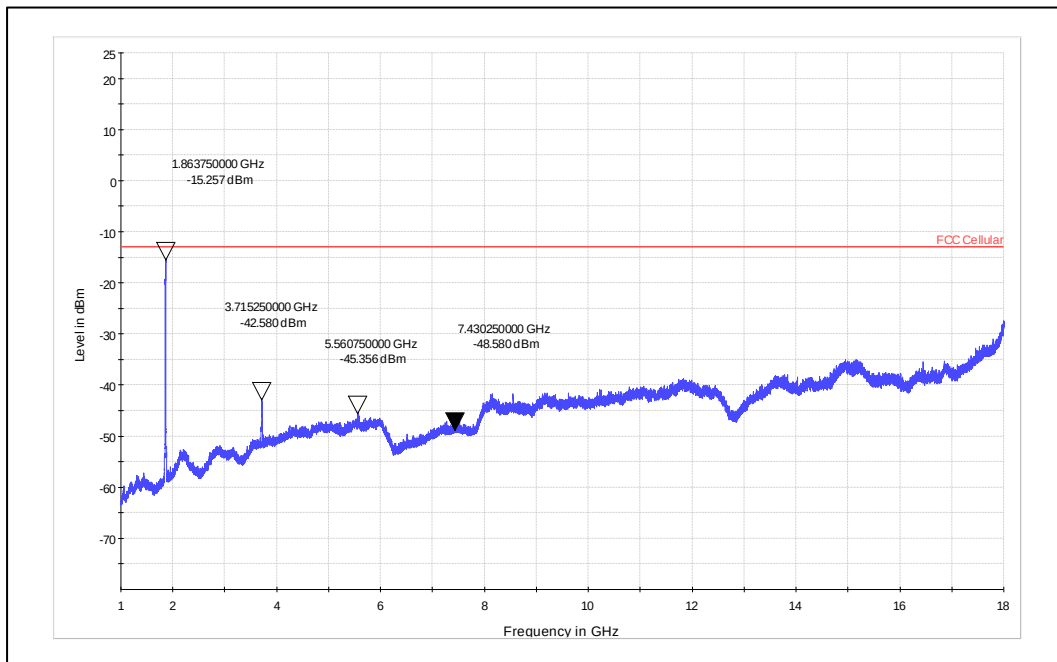
Cell Bandwidth: 15MHz

Channel Frequency: 1857.5MHz; Modulation: QPSK; 75RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

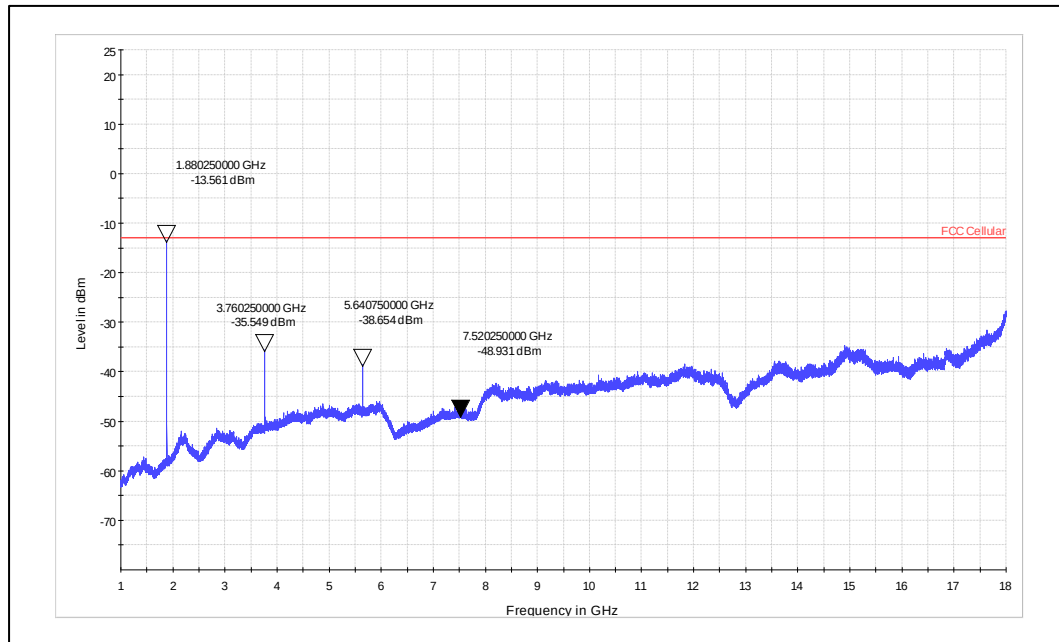
Antenna Polarization: Horizontal

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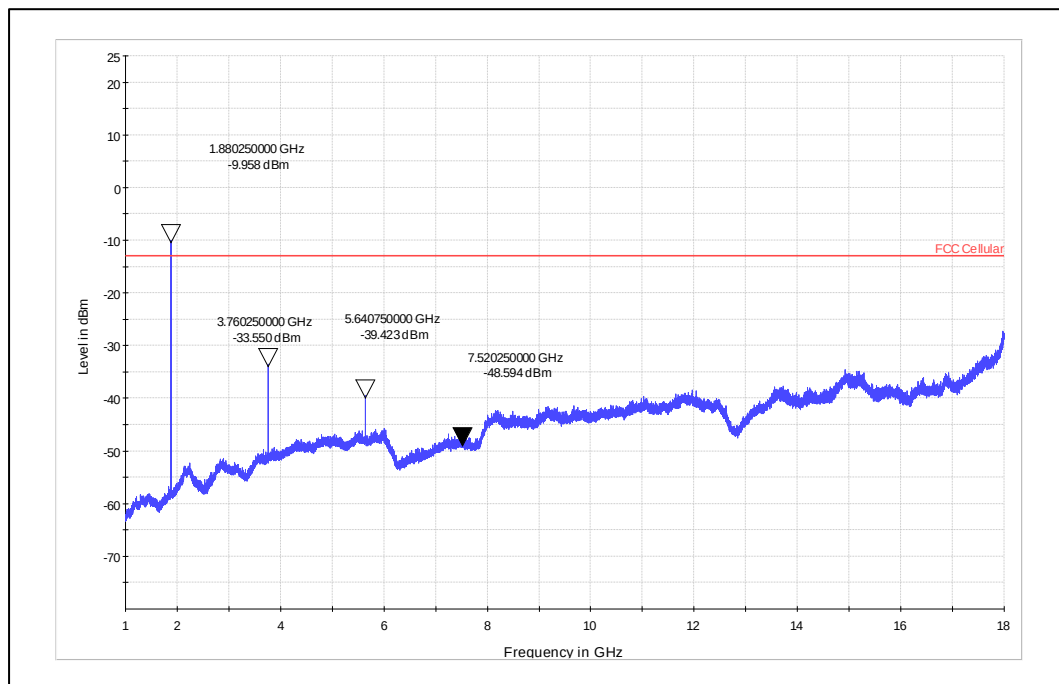
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Channel Frequency: 1880MHz; Modulation: QPSK; 1RB#38



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

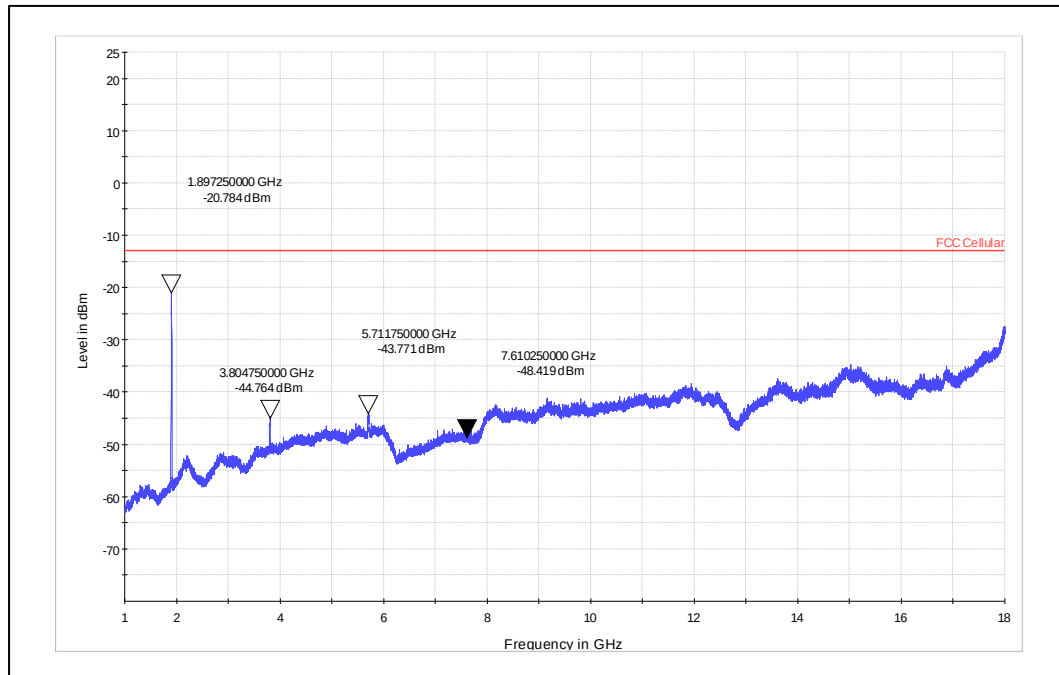
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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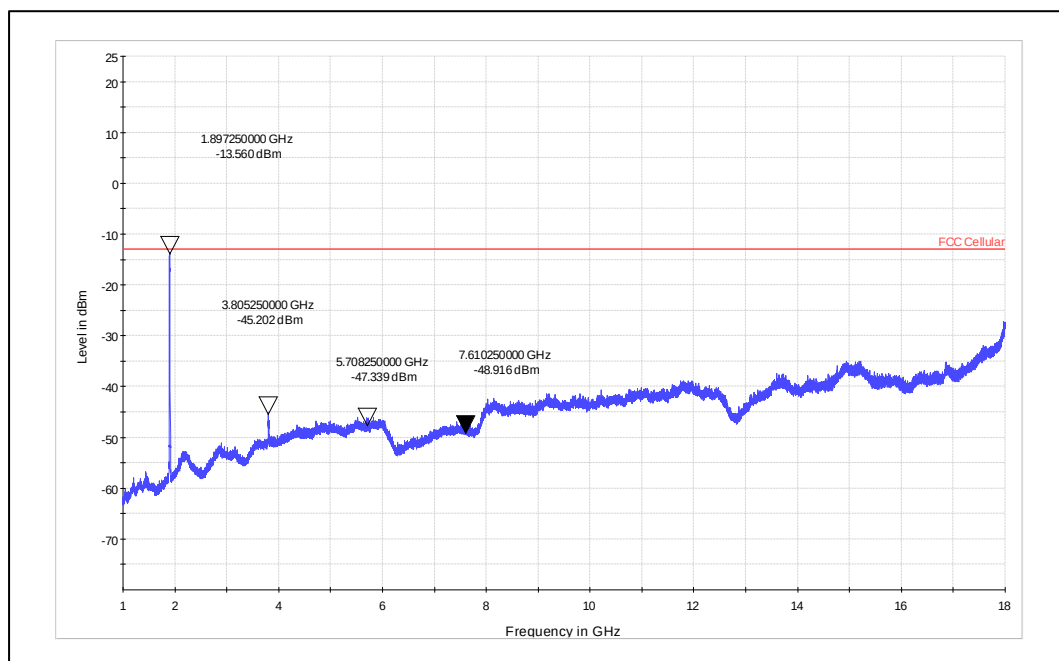
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Channel Frequency: 1902.5MHz; Modulation: QPSK; 75RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

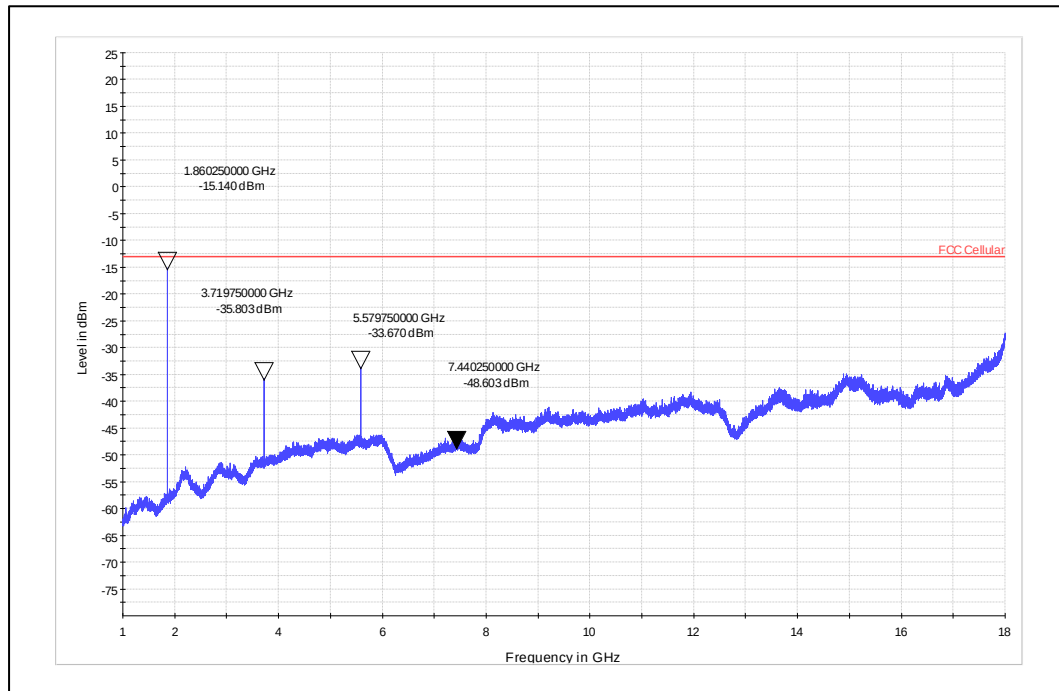
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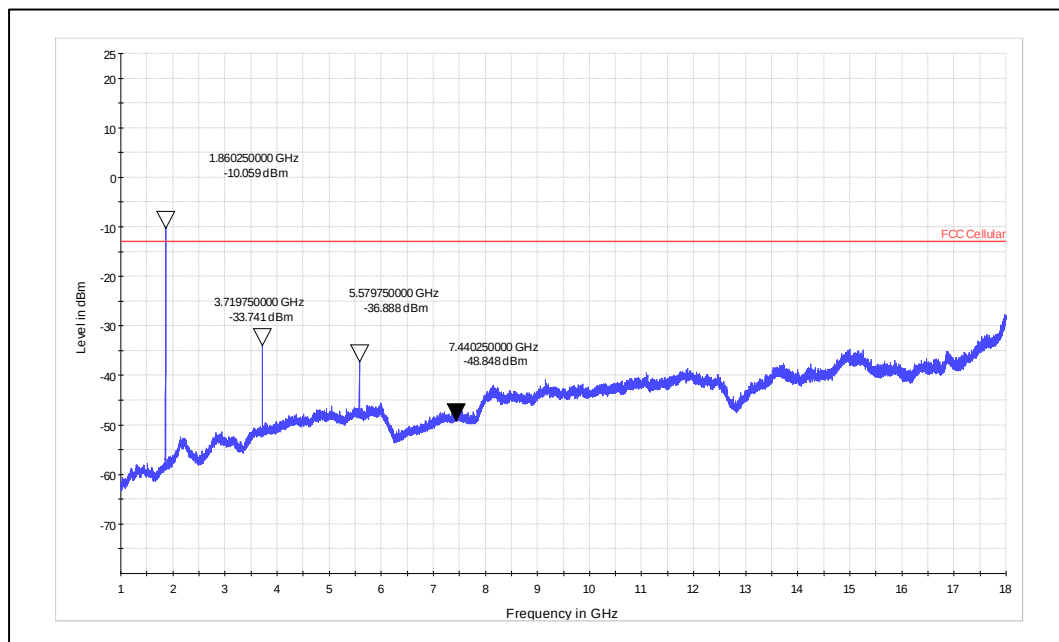
Cell Bandwidth: 20MHz

Channel Frequency: 1860MHz; Modulation: 16QAM; 1RB#49



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

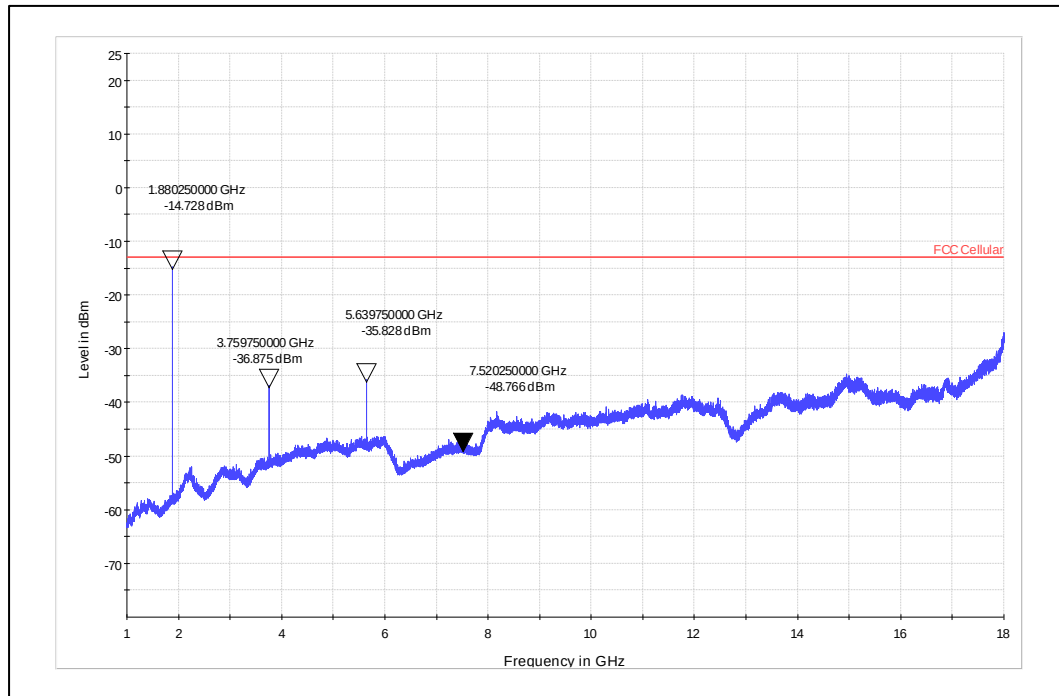
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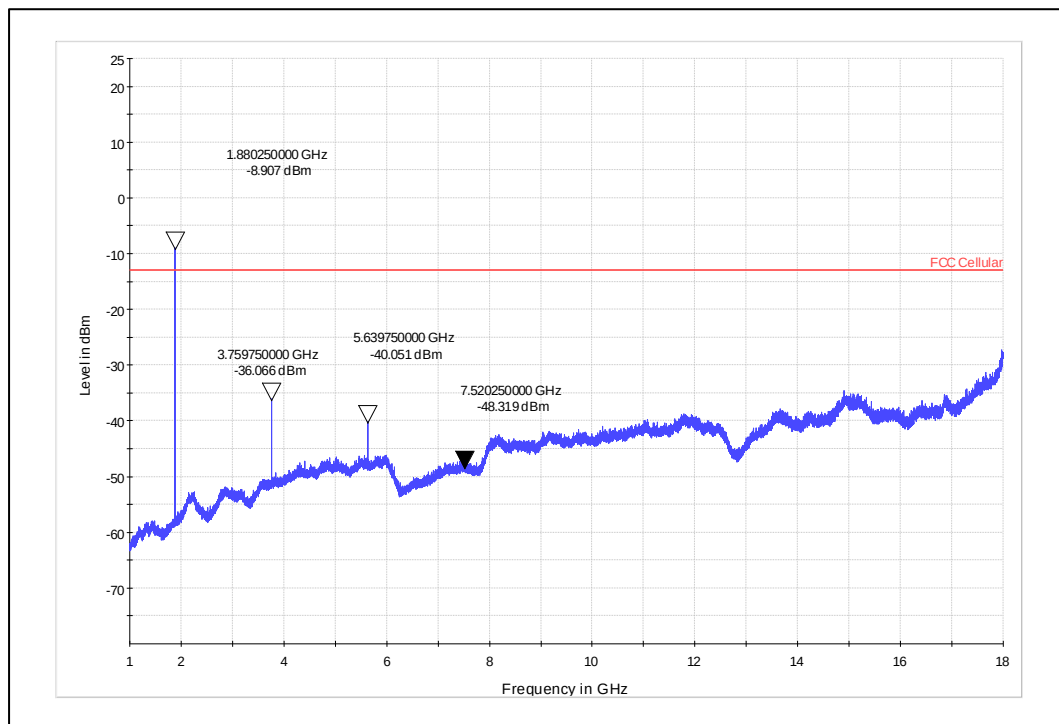
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Channel Frequency: 1880MHz; Modulation: 16QAM; 1RB#49



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

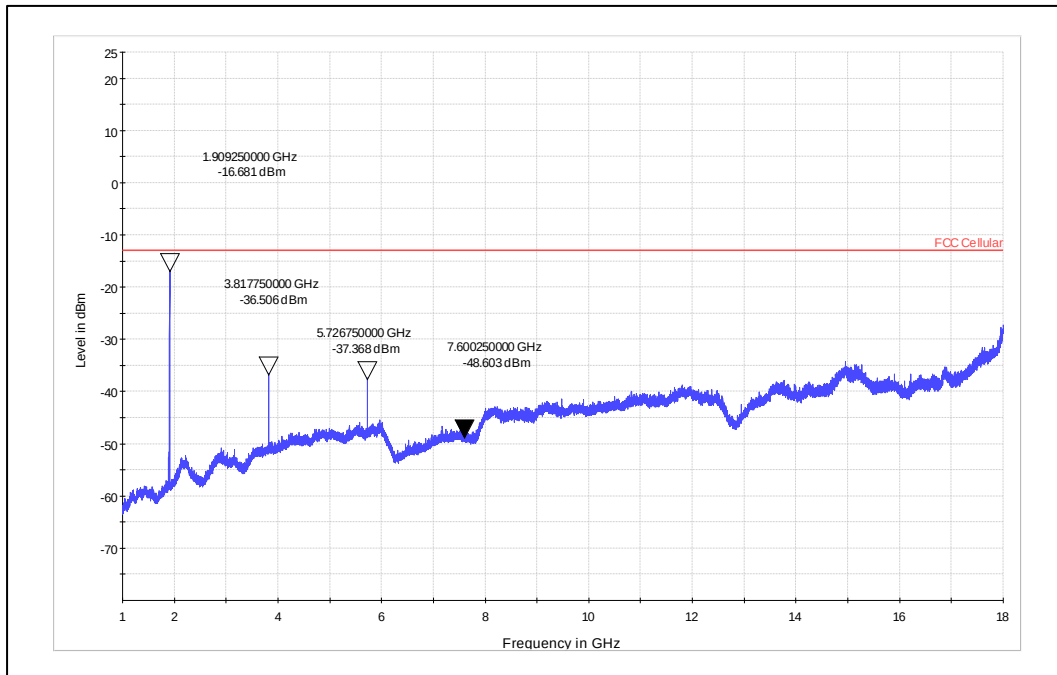
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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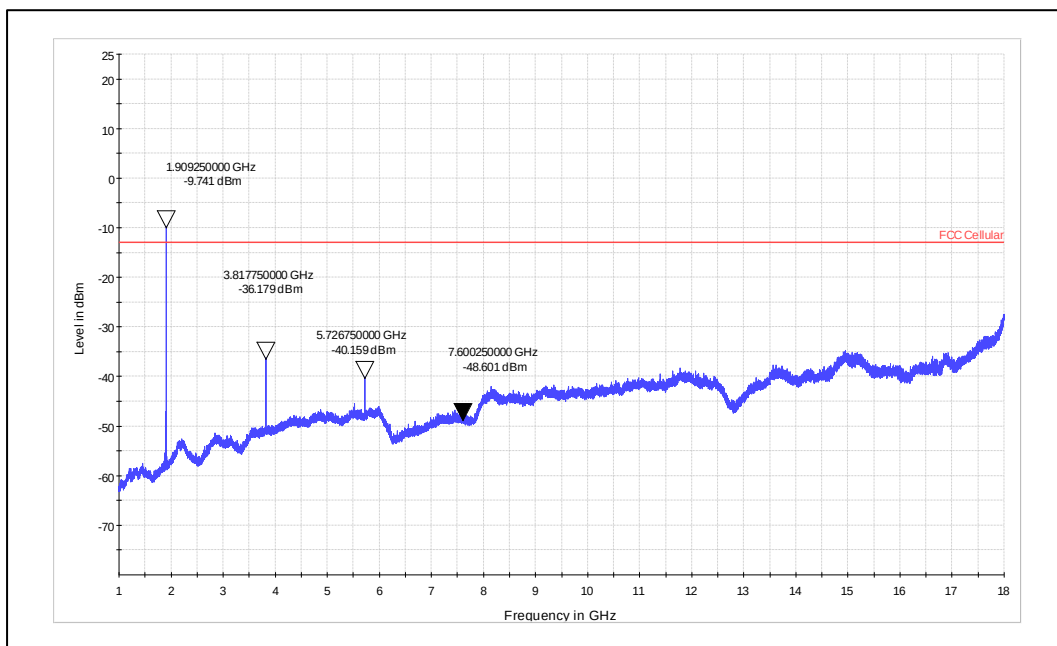
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Channel Frequency: 1900MHz; Modulation: 16QAM; 1RB#99



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

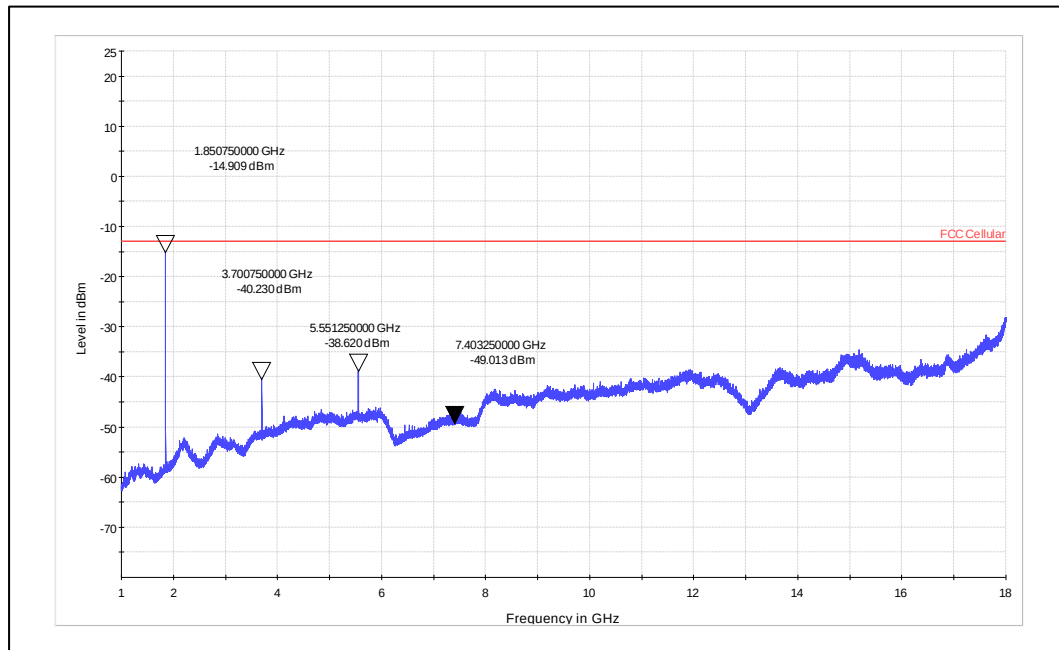
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LTE Band 25:

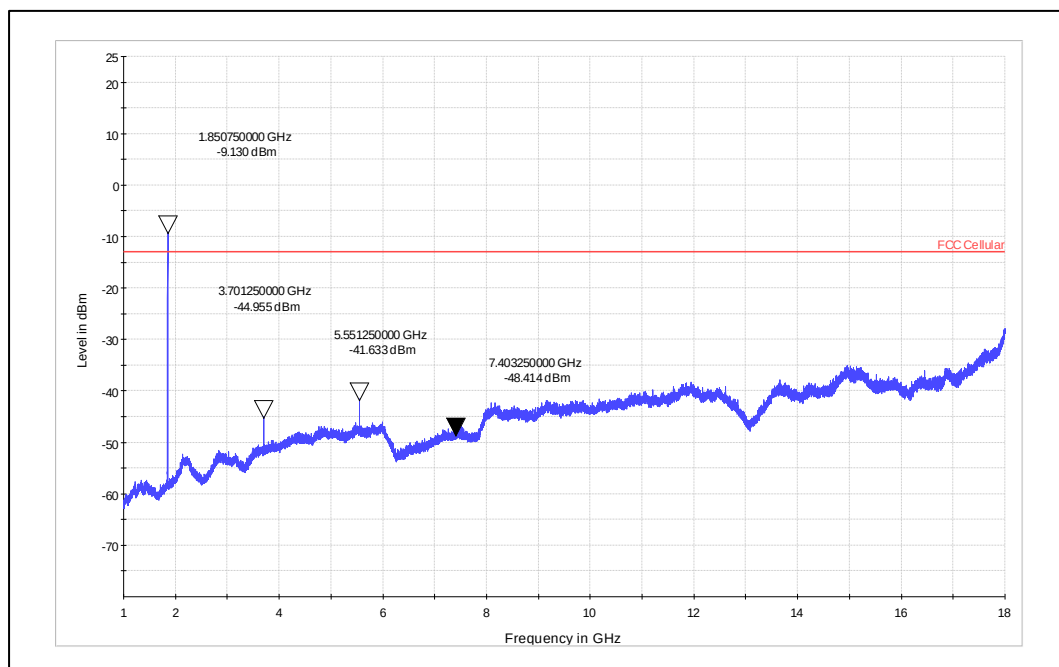
Cell Bandwidth: 1.4MHz

Channel Frequency: 1850.7MHz; Modulation: QPSK; 3RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

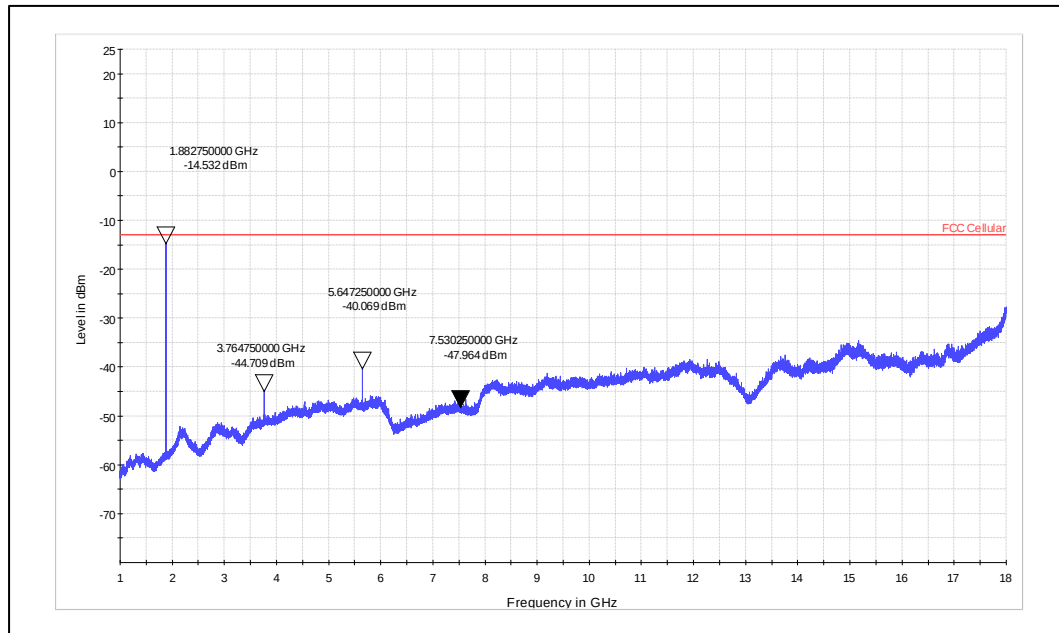
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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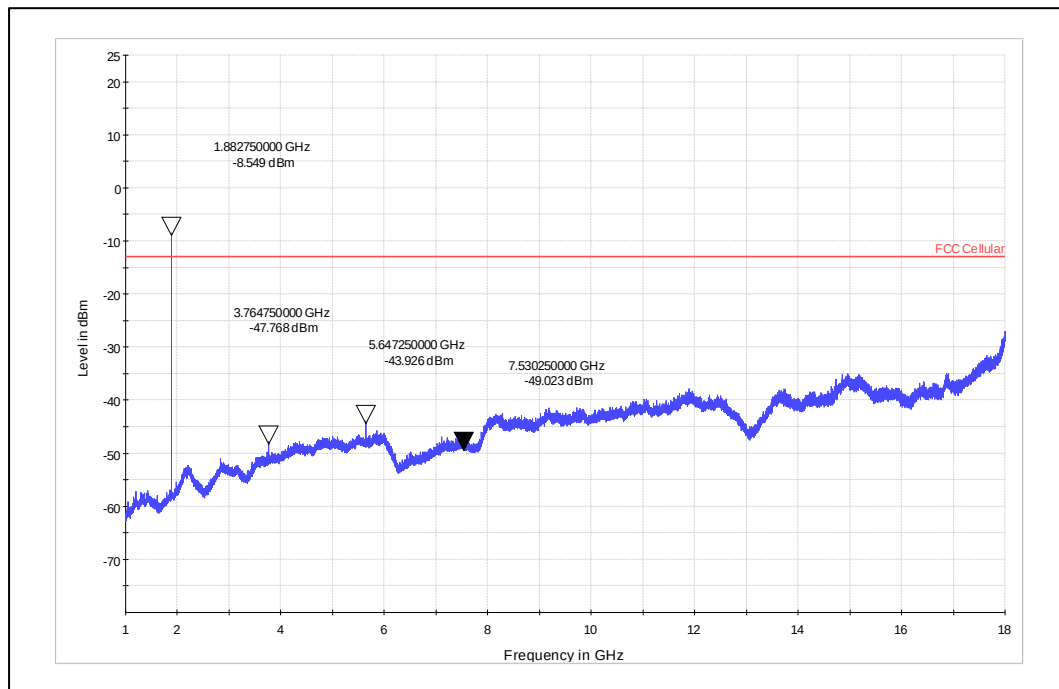
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Channel Frequency: 1882.5MHz; Modulation: QPSK; 3RB#1



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

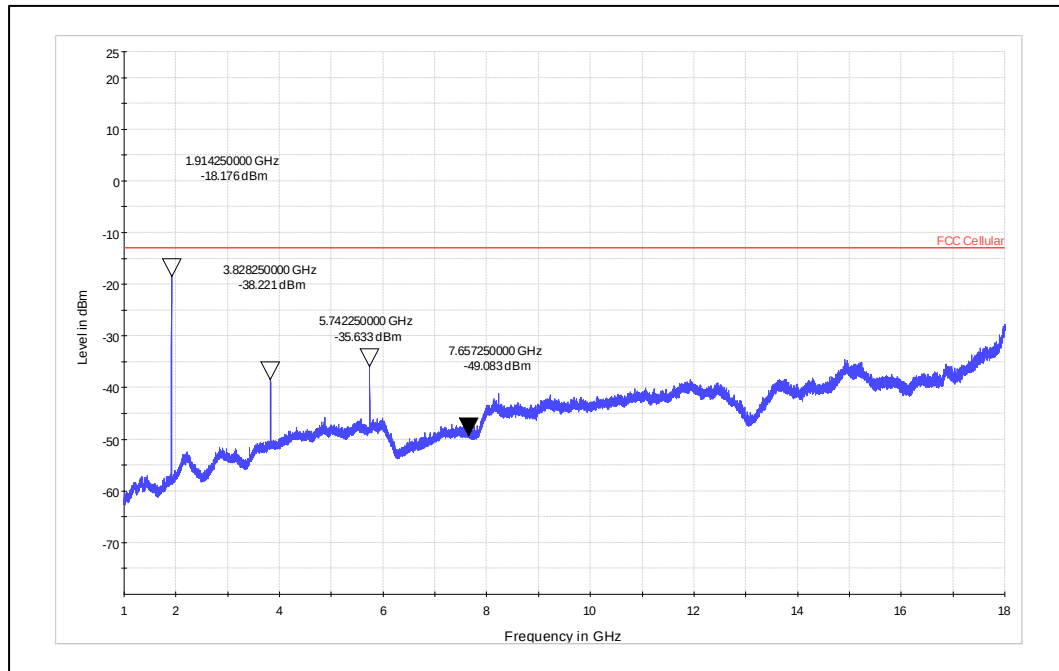
Prüfbericht - Nr.:

Test Report No.:

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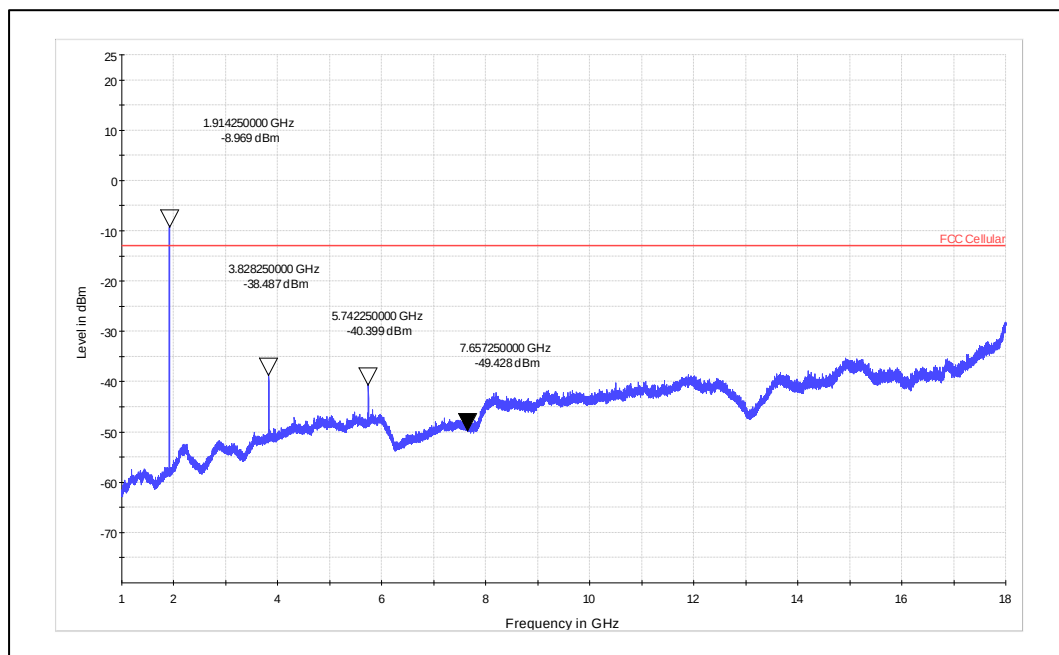
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Channel Frequency: 1914.3MHz; Modulation: QPSK; 3RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

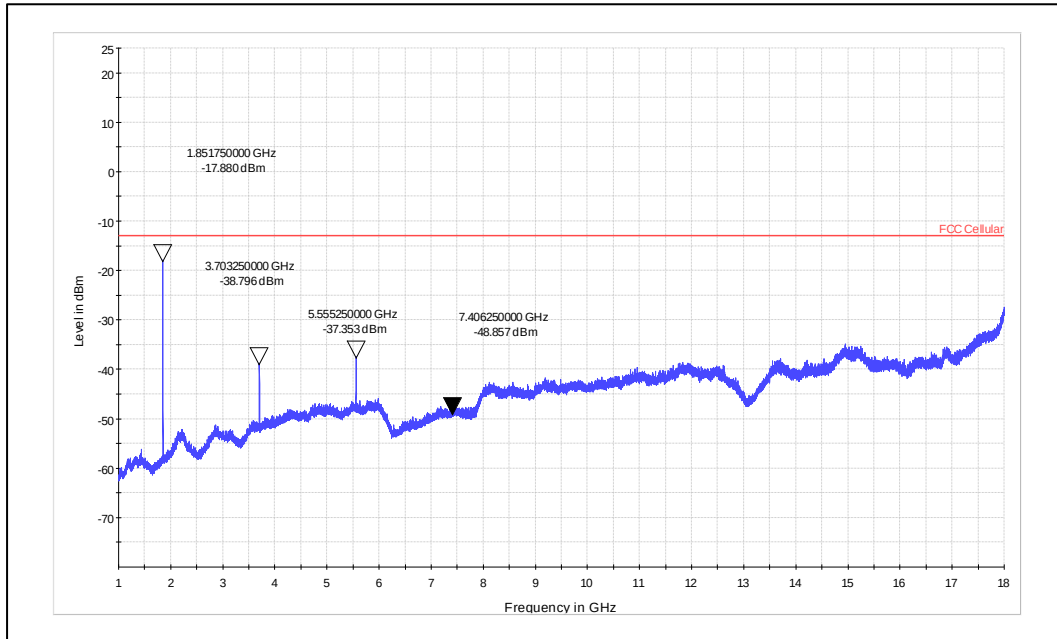
Prüfbericht - Nr.:
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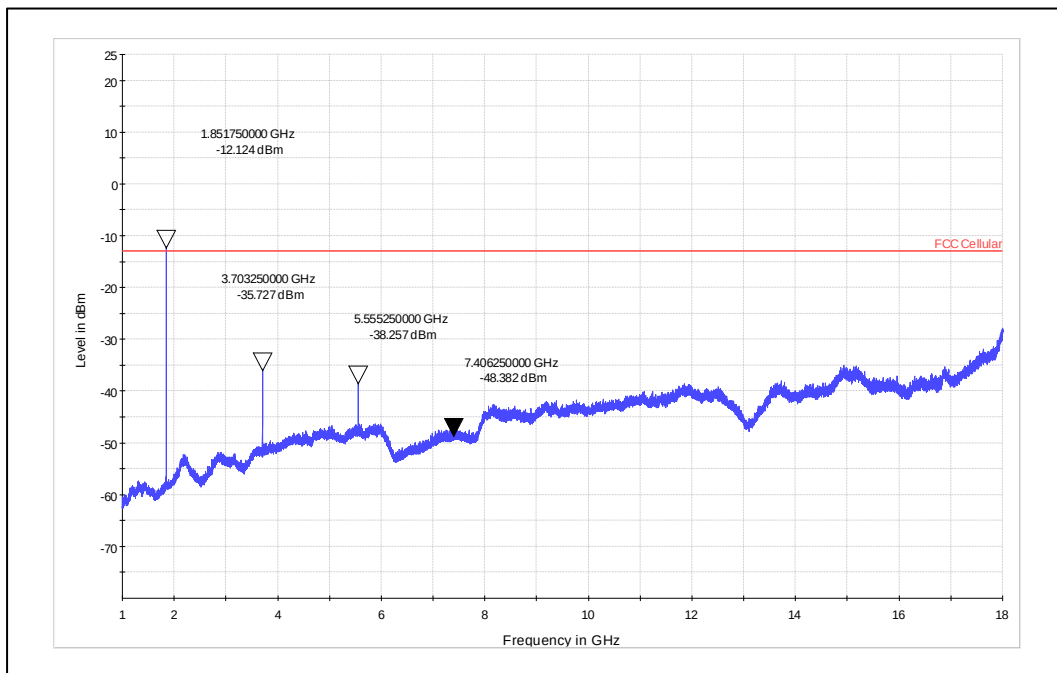
Cell Bandwidth: 3MHz

Channel Frequency: 1851.5MHz; Modulation: QPSK; 1RB#8



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

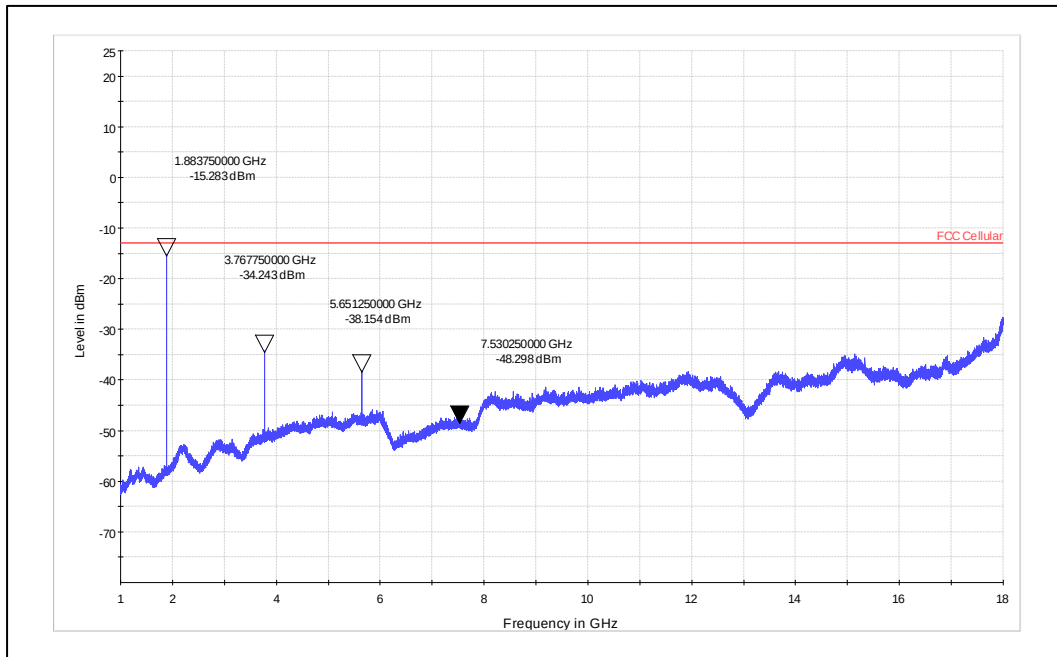
Prüfbericht - Nr.:

Test Report No.:

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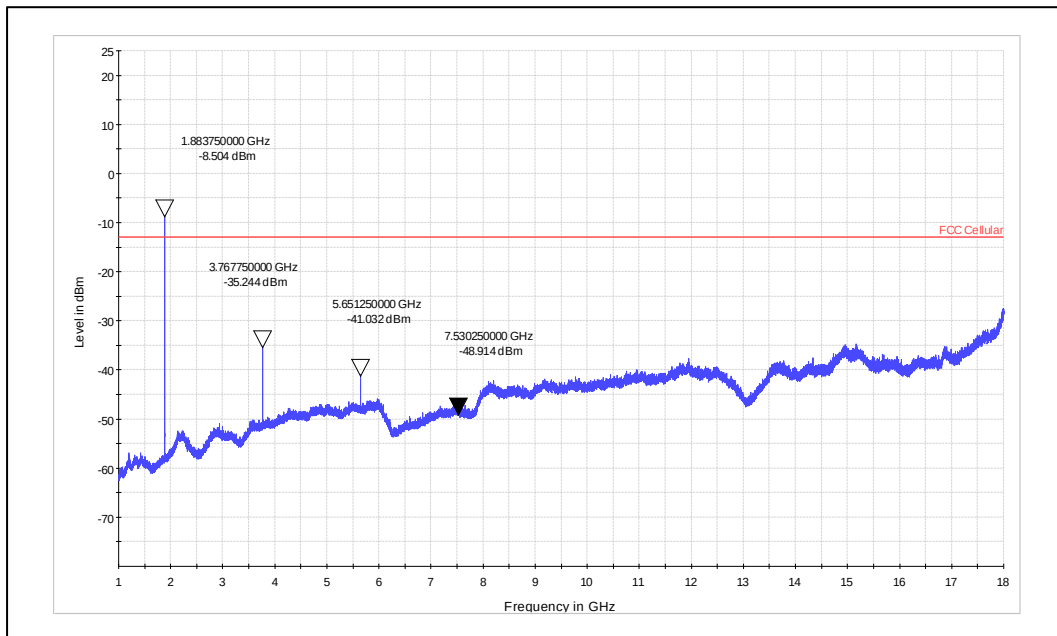
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Channel Frequency: 1882.5MHz; Modulation: QPSK; 1RB#14



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

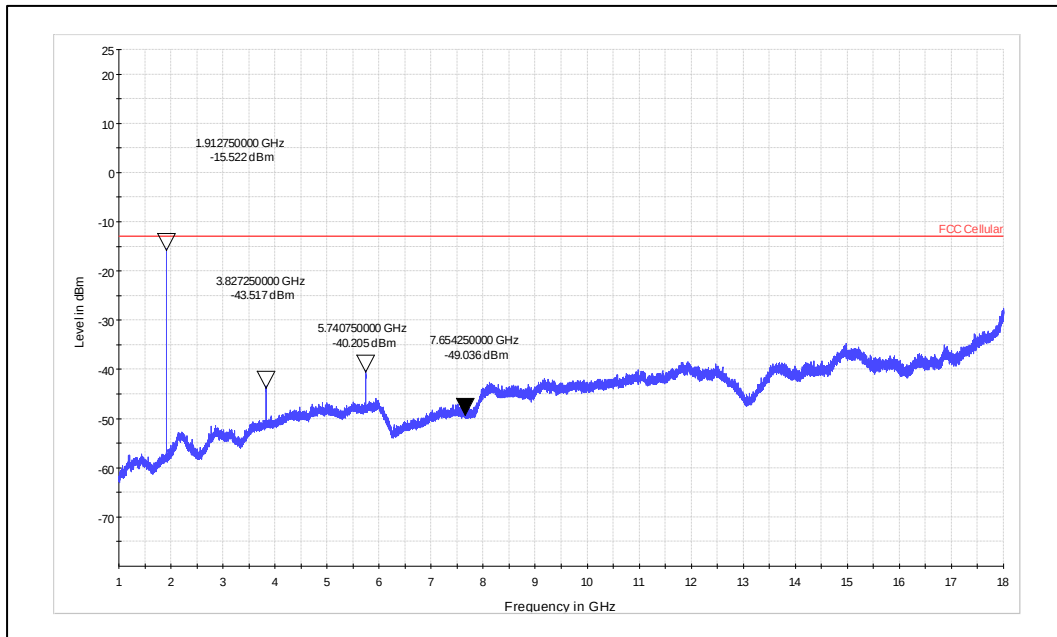
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN258K1F 001

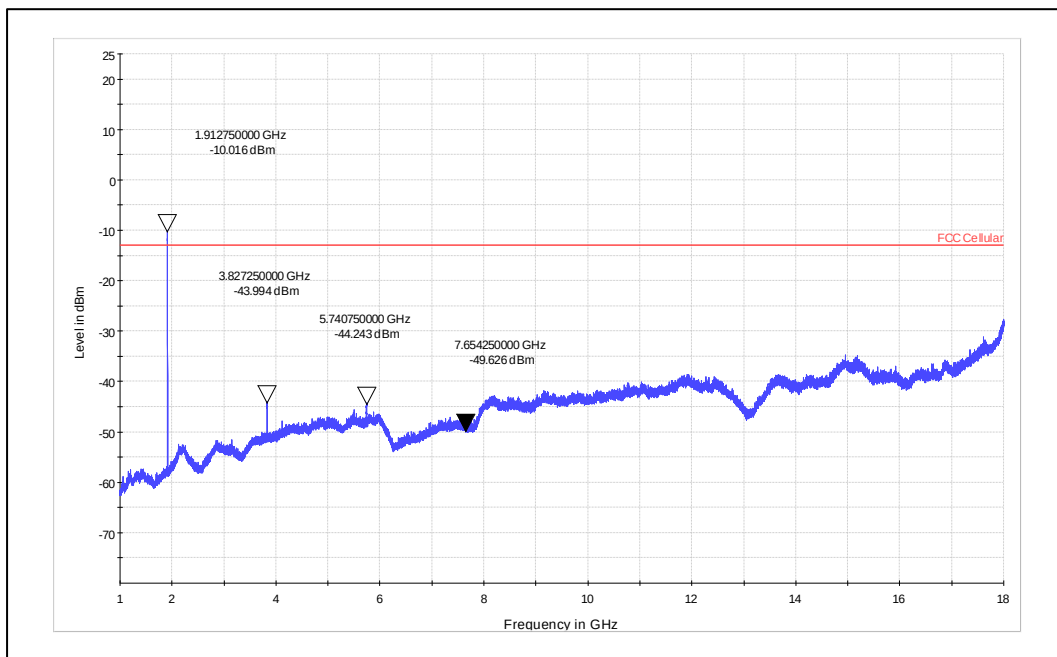
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Channel Frequency: 1913.5MHz; Modulation: QPSK; 15RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

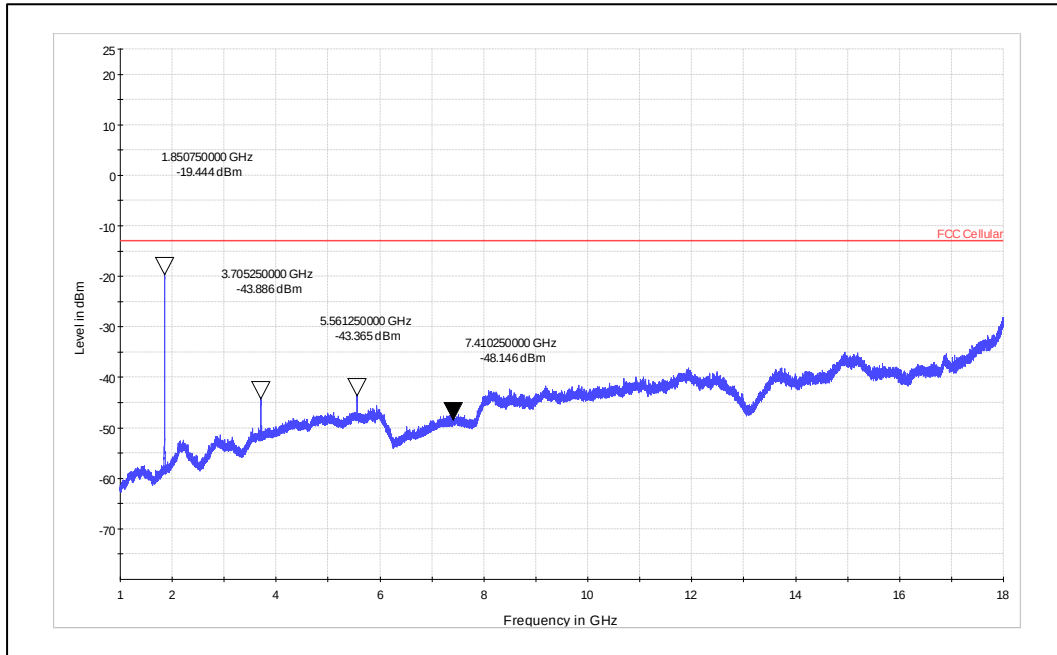
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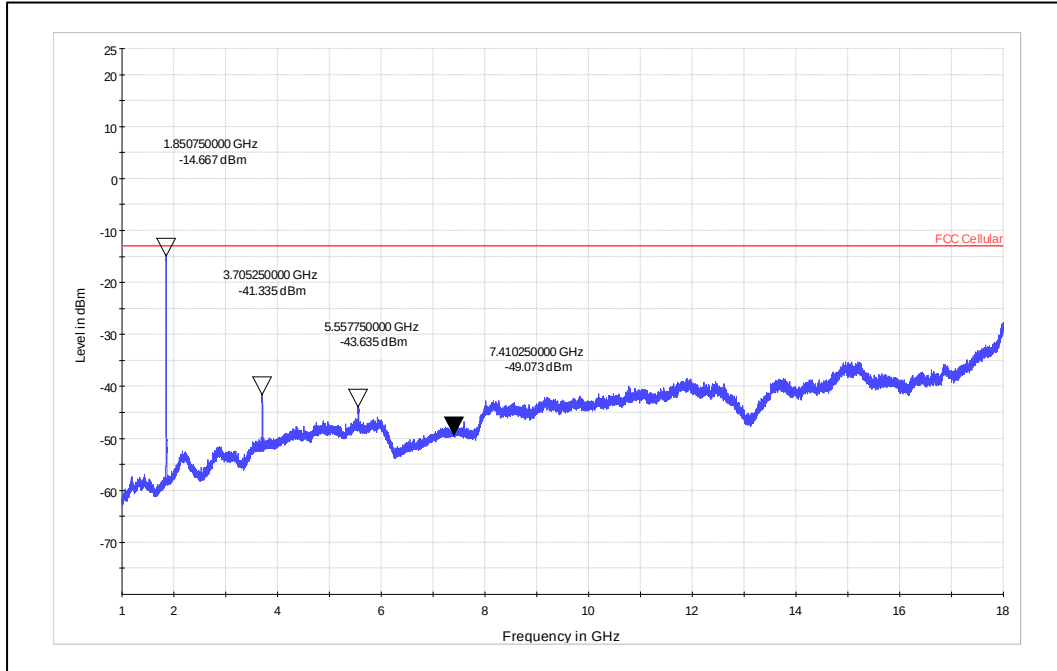
Cell Bandwidth: 5MHz

Channel Frequency: 1852.5MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

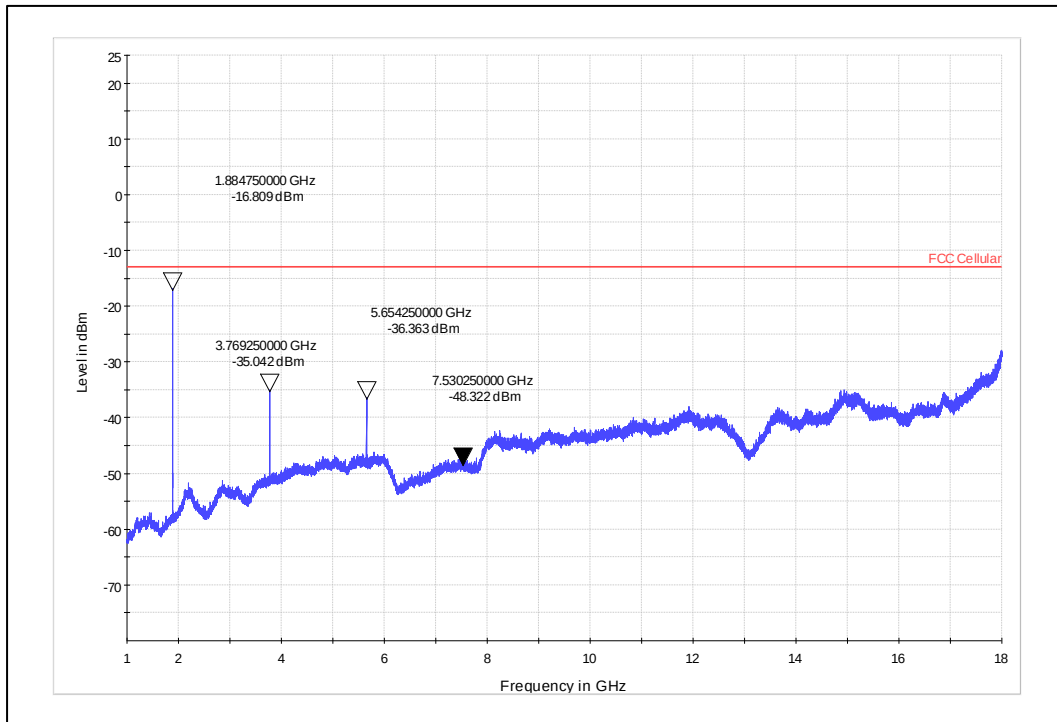
Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

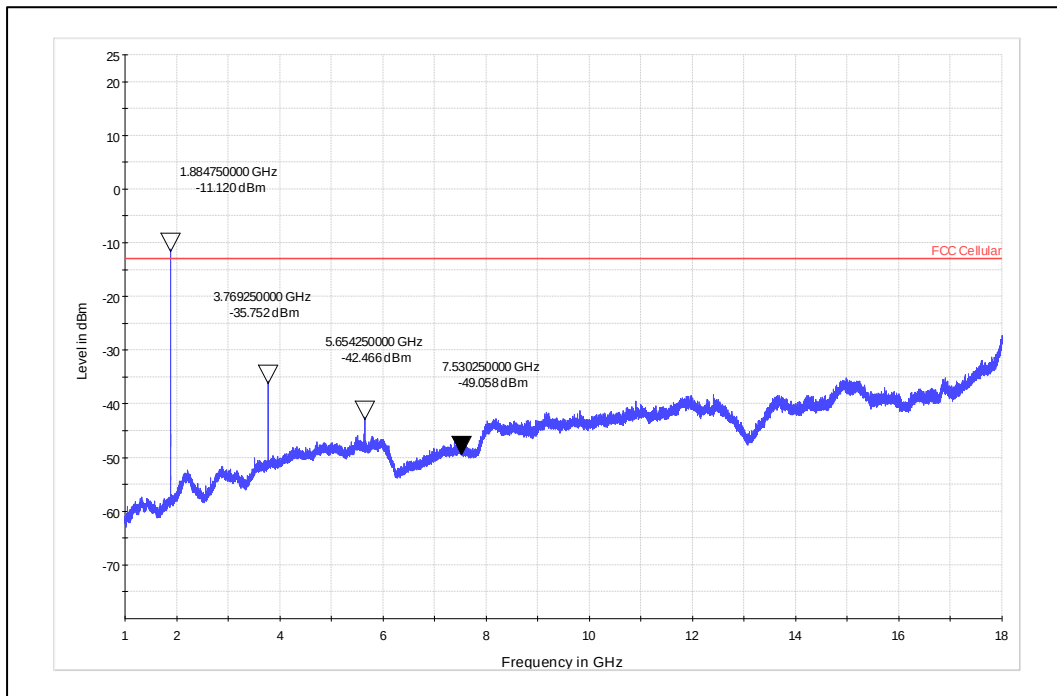
Antenna Polarization: Horizontal

Channel Frequency: 1882.5MHz; Modulation: 16QAM; 1RB#24



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

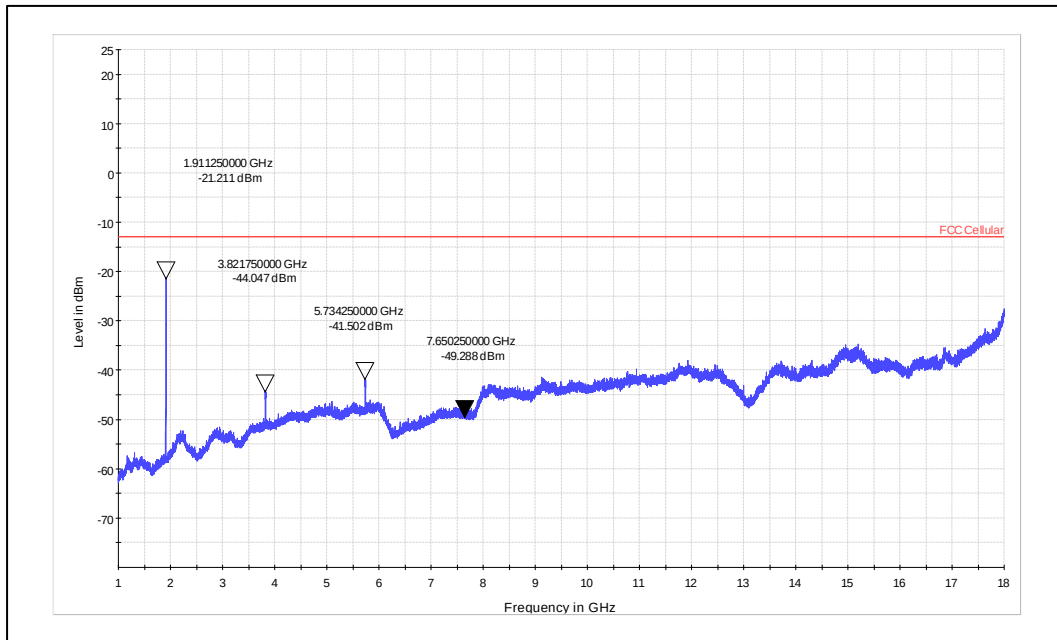
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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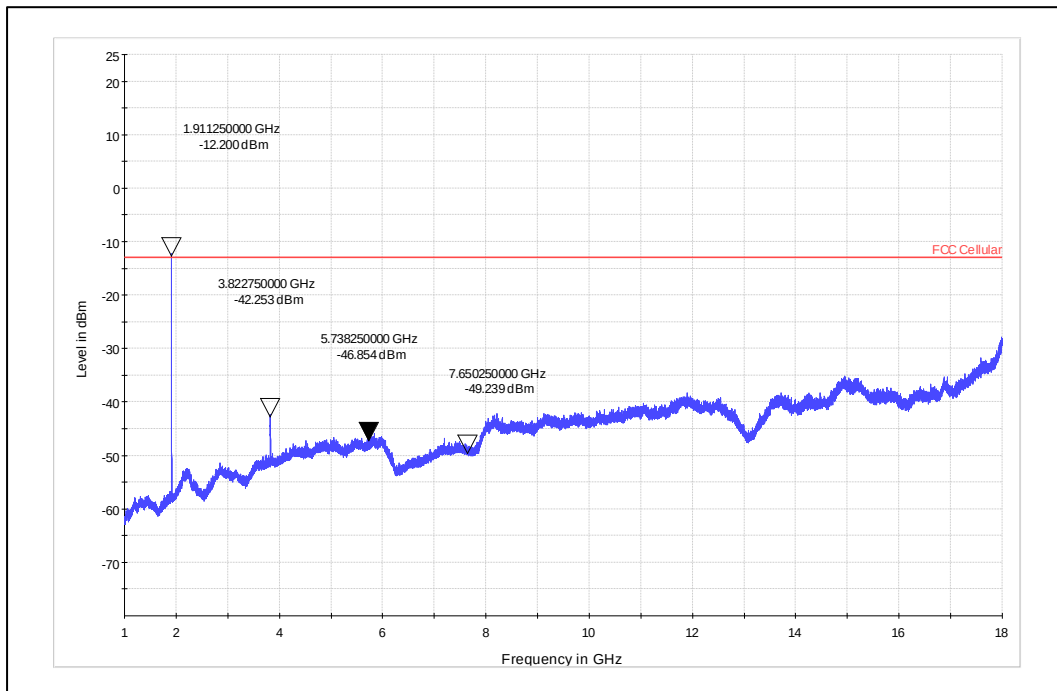
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Channel Frequency: 1912.5MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

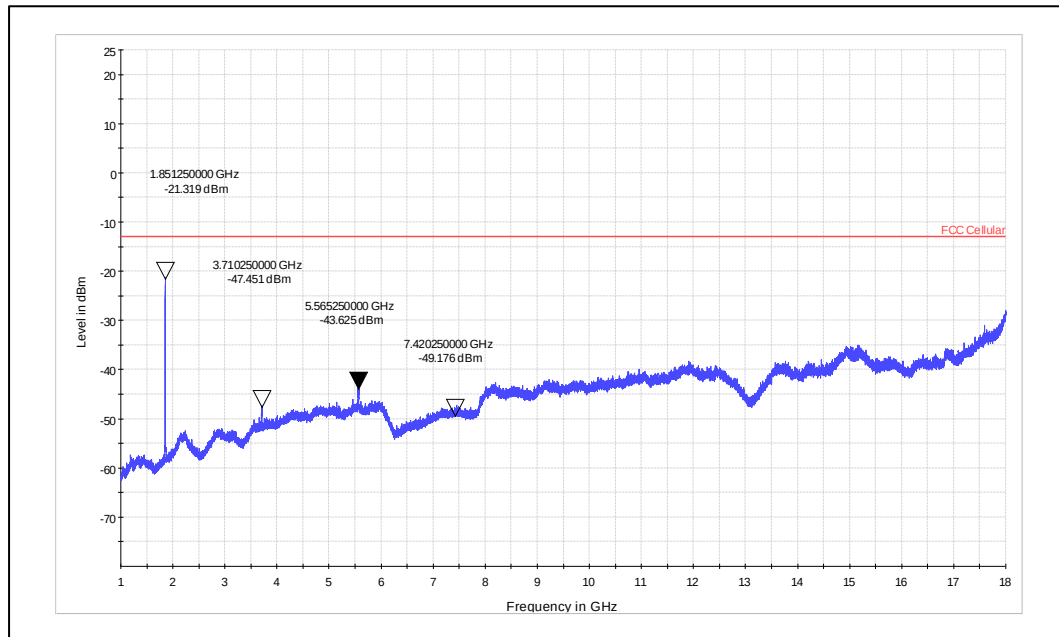
Prüfbericht - Nr.:
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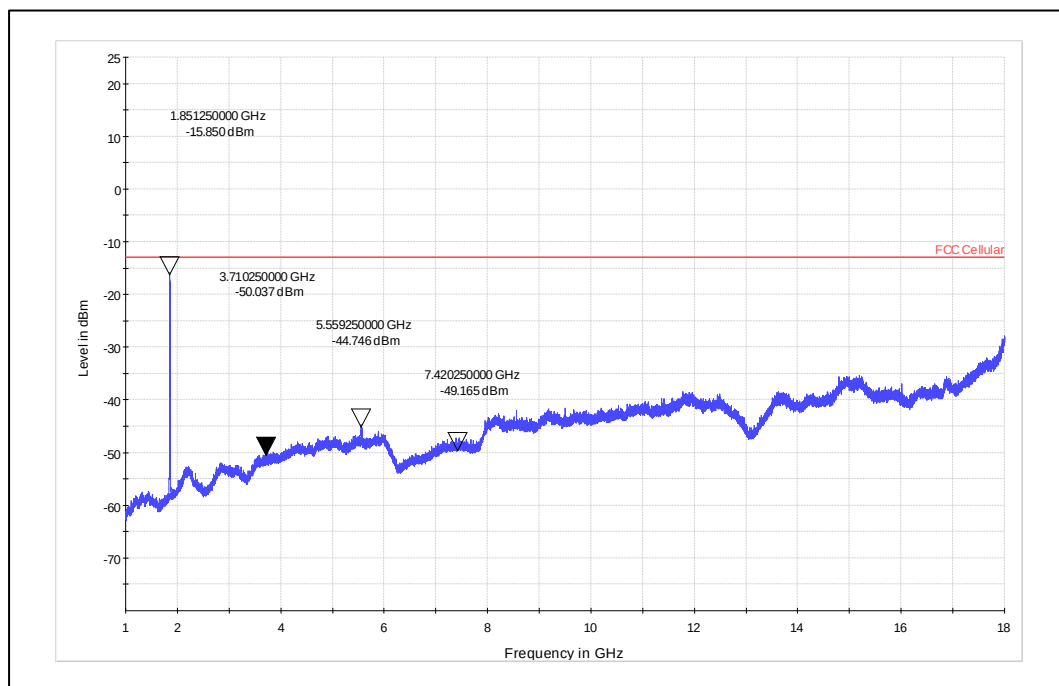
Cell Bandwidth: 10MHz

Channel Frequency: 1855MHz; Modulation: QPSK; 50RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

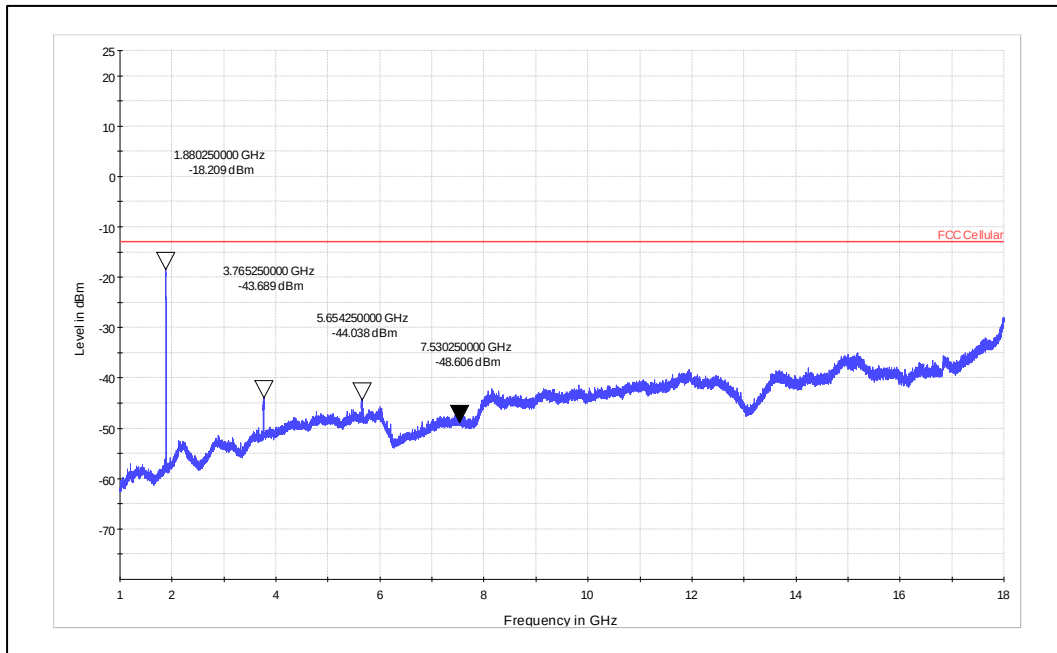
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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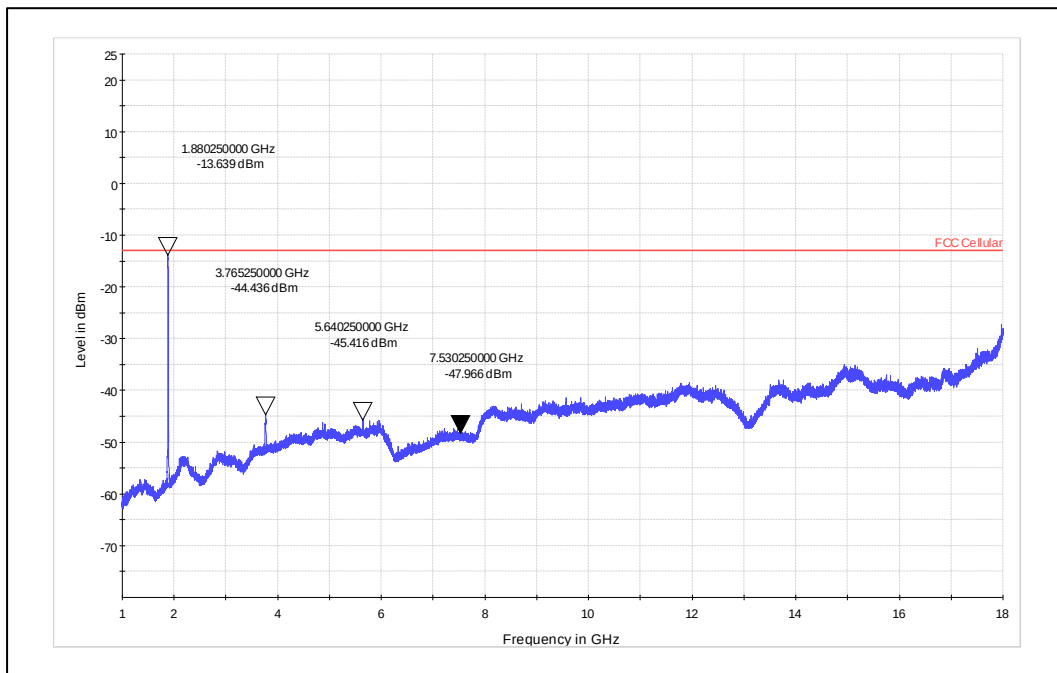
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Channel Frequency: 1882.5MHz; Modulation: QPSK; 50RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

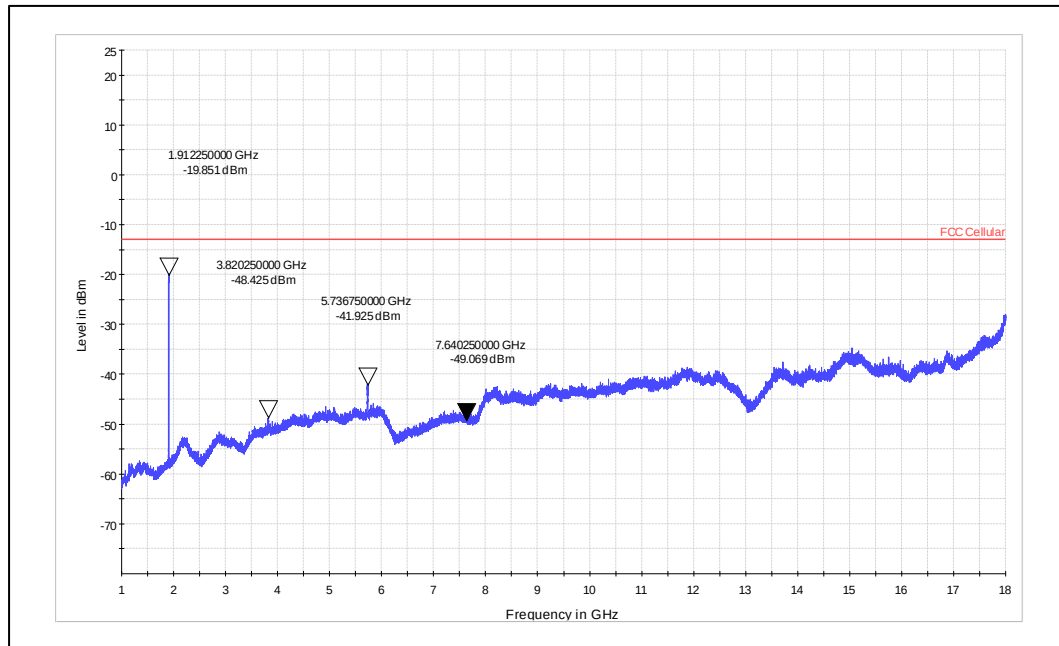
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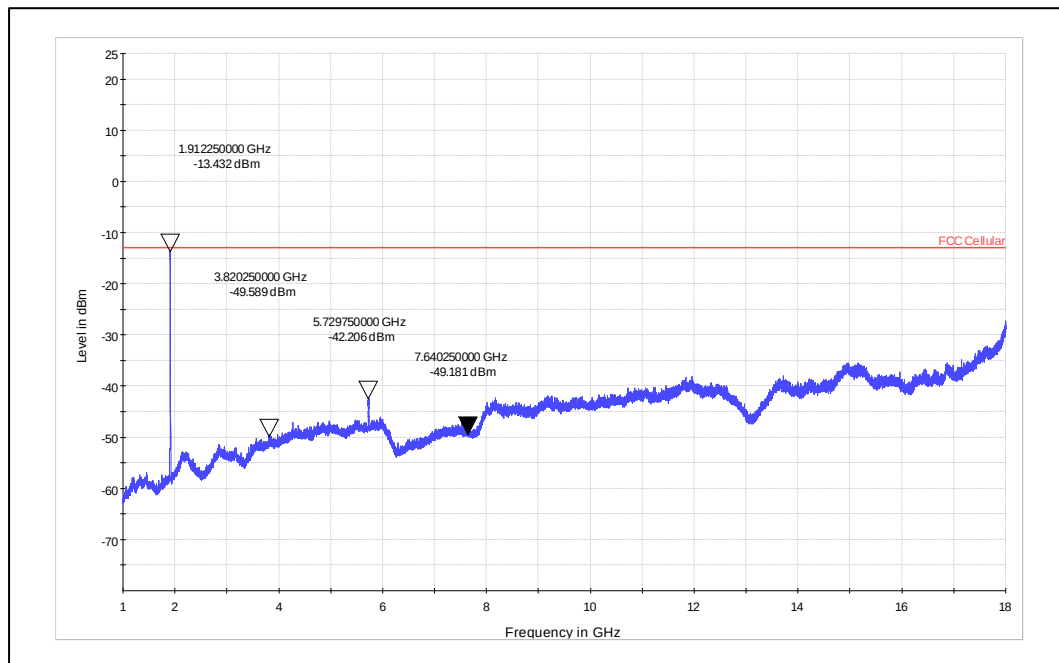
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Channel Frequency: 1910MHz; Modulation: QPSK; 50RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

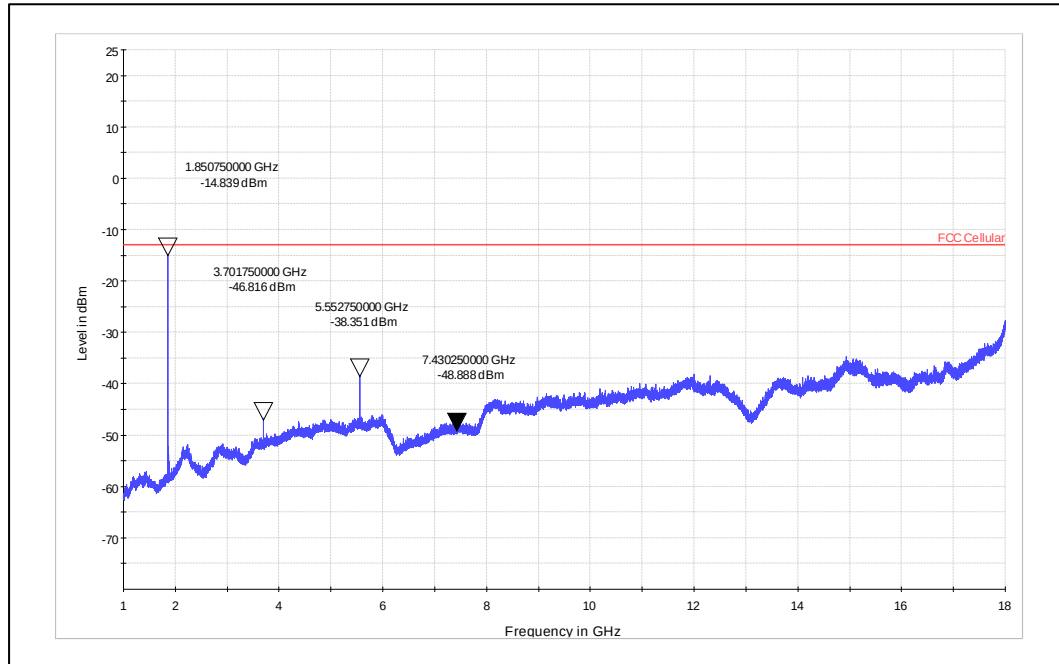
Prüfbericht - Nr.:
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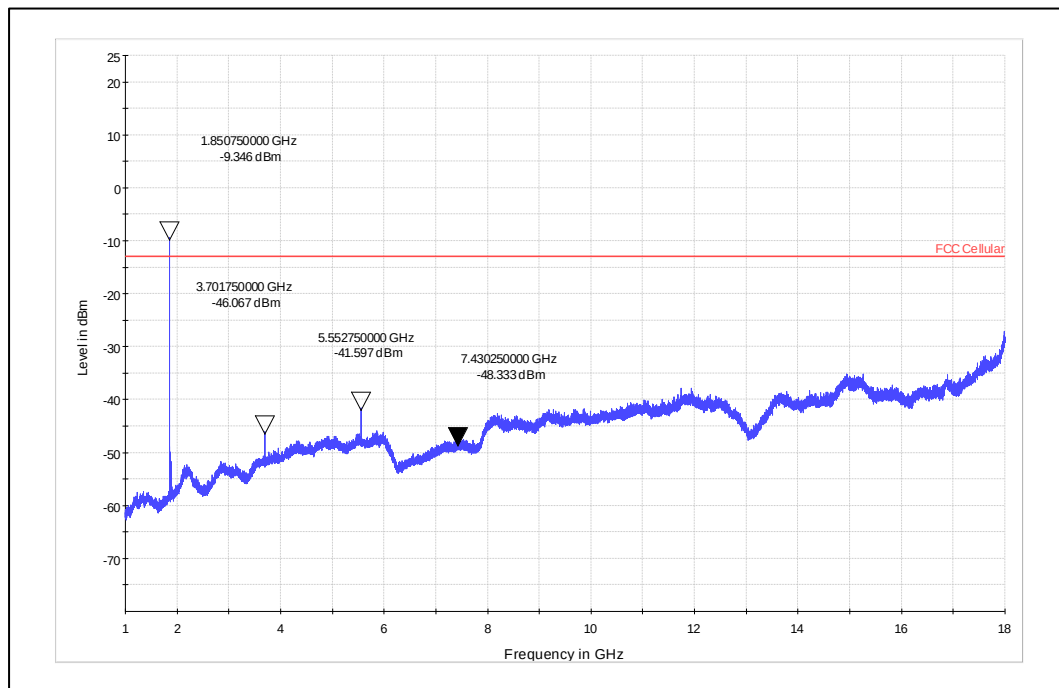
Cell Bandwidth: 15MHz

Channel Frequency: 1857.5MHz; Modulation: QPSK; 1RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

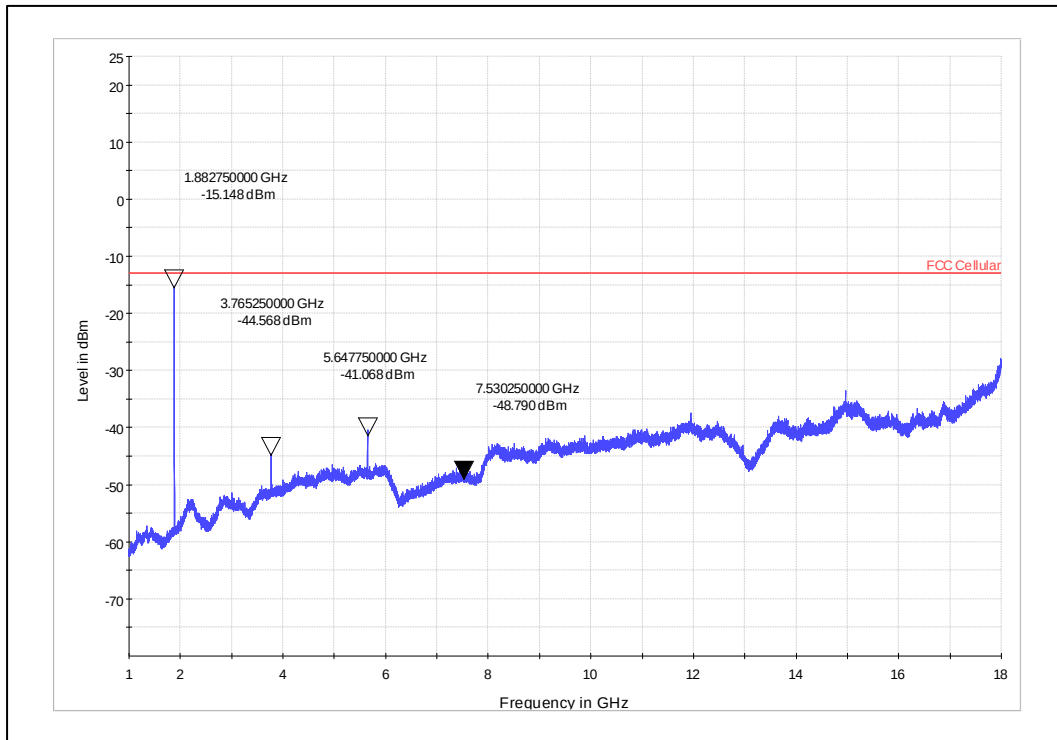
Prüfbericht - Nr.:

Test Report No.:

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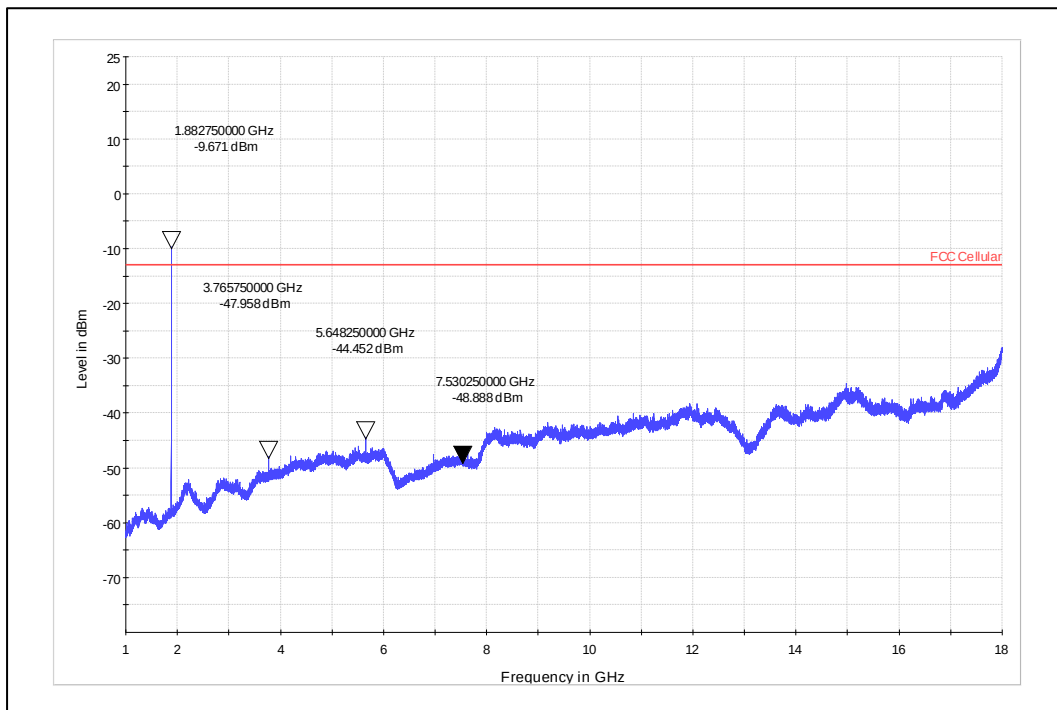
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Channel Frequency: 1882.5MHz; Modulation: QPSK; 1RB#38



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

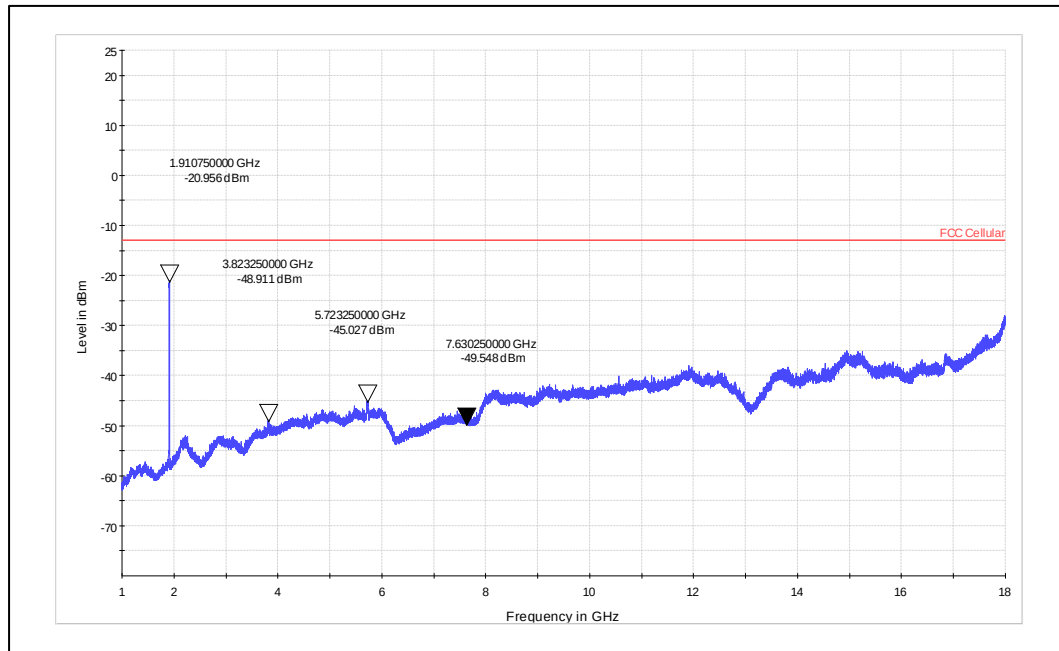
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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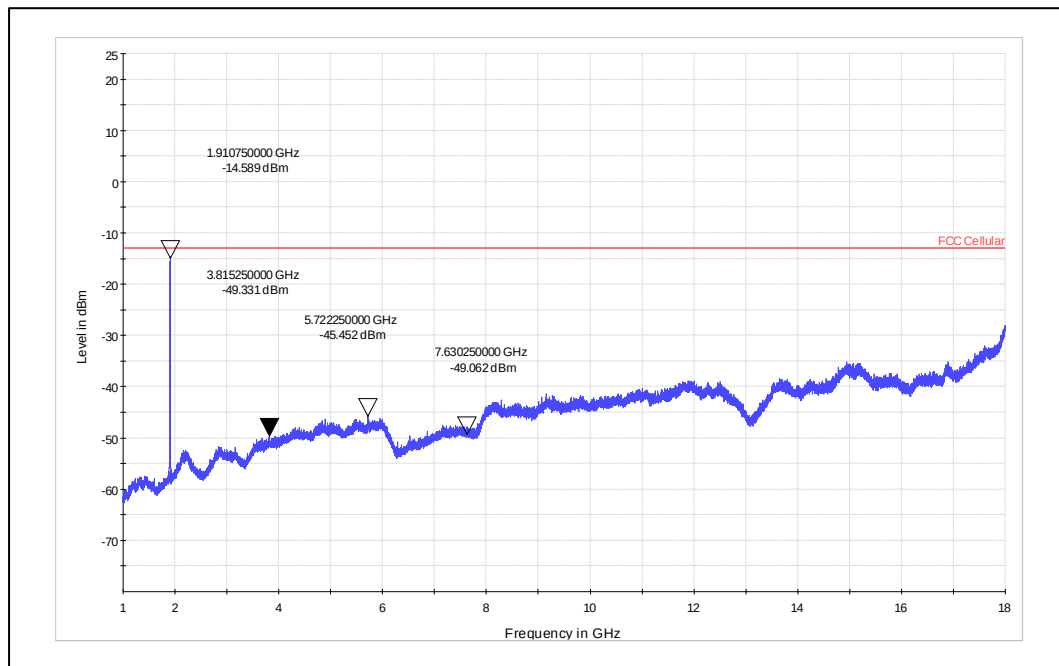
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Channel Frequency: 1907.5MHz; Modulation: QPSK; 75RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

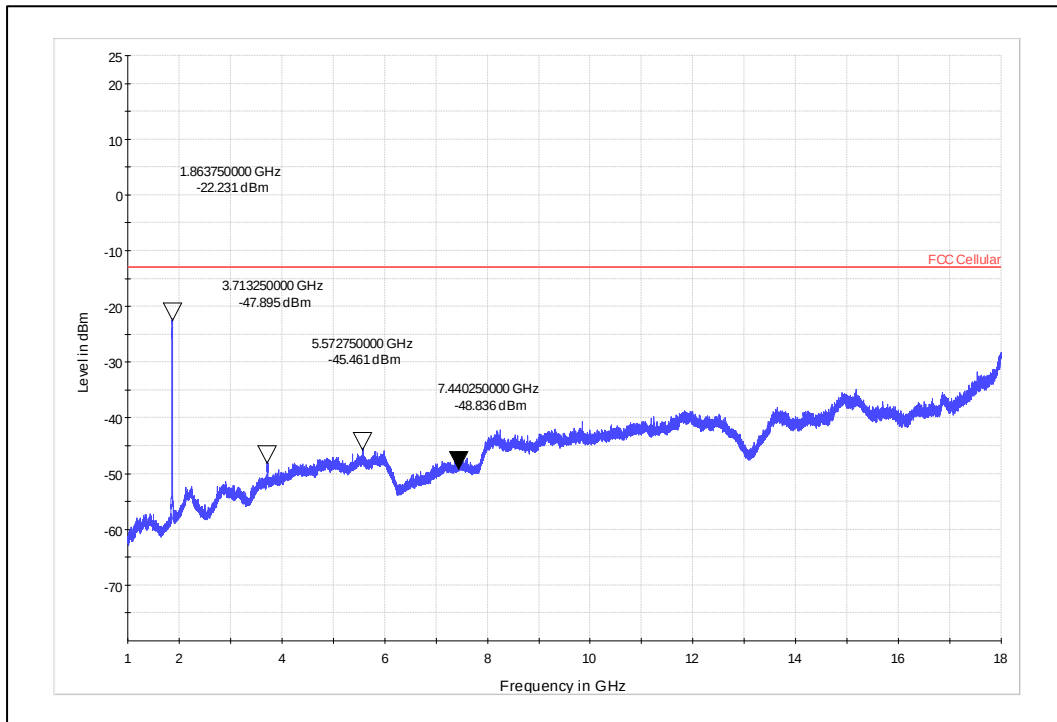
Prüfbericht - Nr.:
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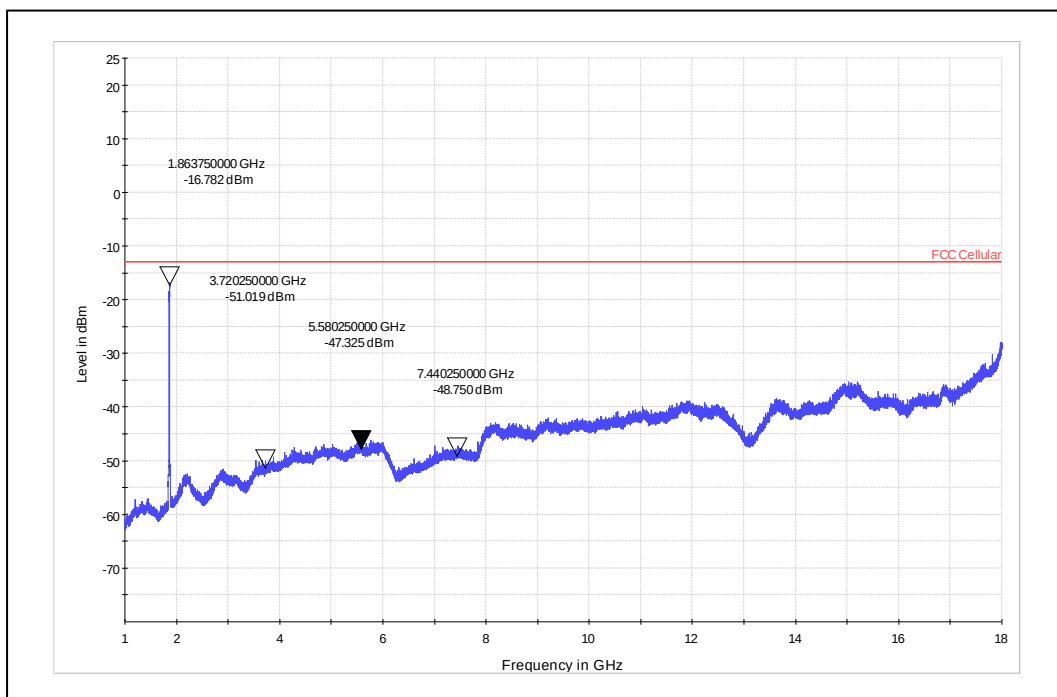
Cell Bandwidth: 20MHz

Channel Frequency: 1860MHz; Modulation: 16QAM; 100RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

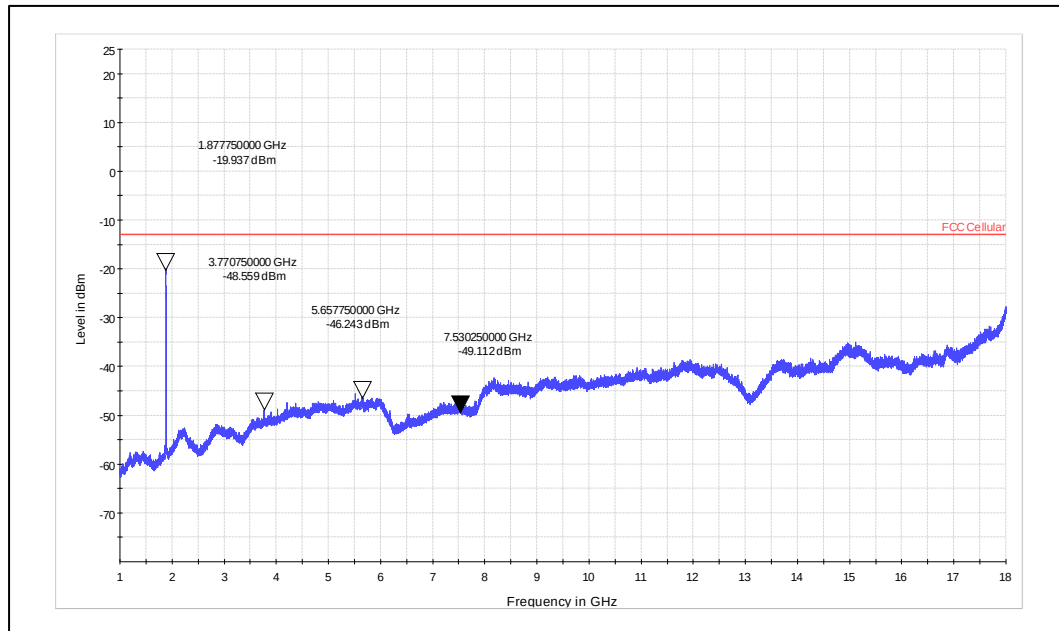
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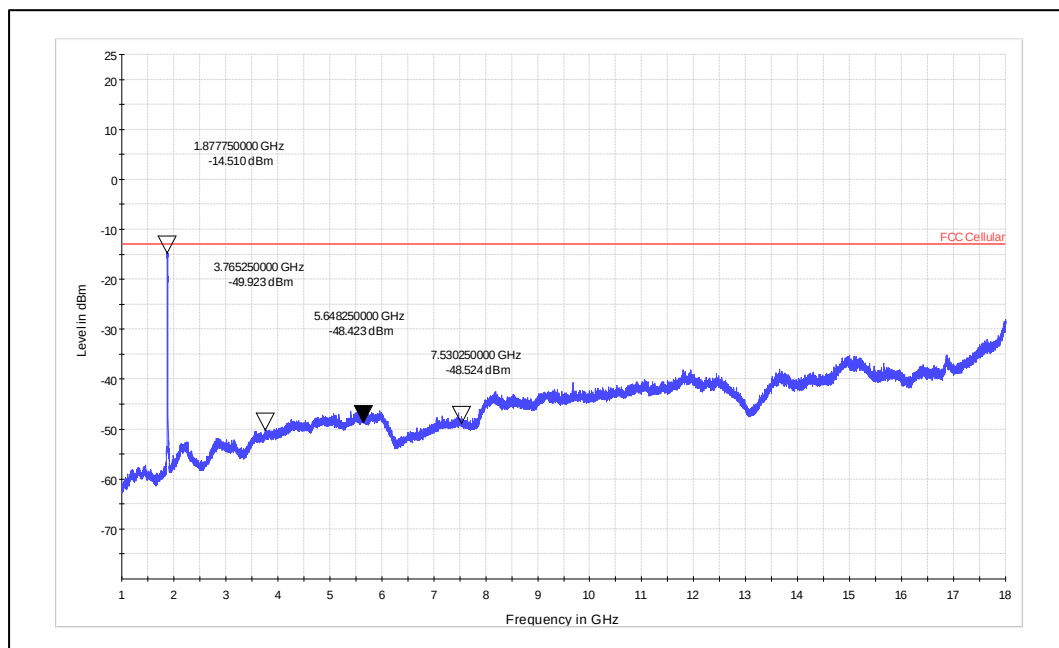
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Channel Frequency: 1882.5MHz; Modulation: 16QAM; 100RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

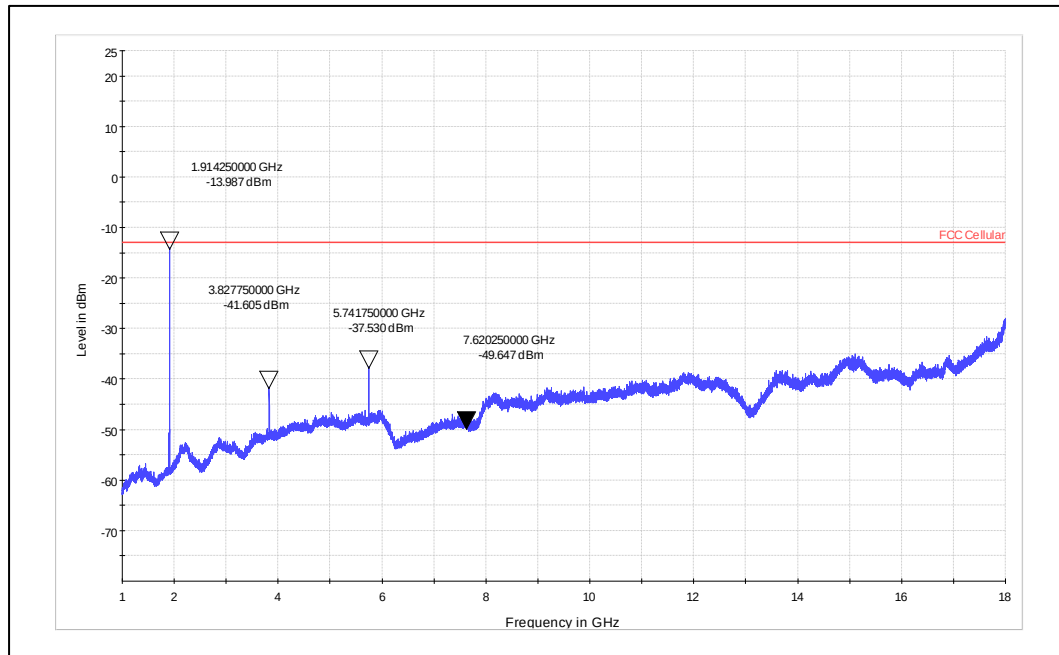
Prüfbericht - Nr.:

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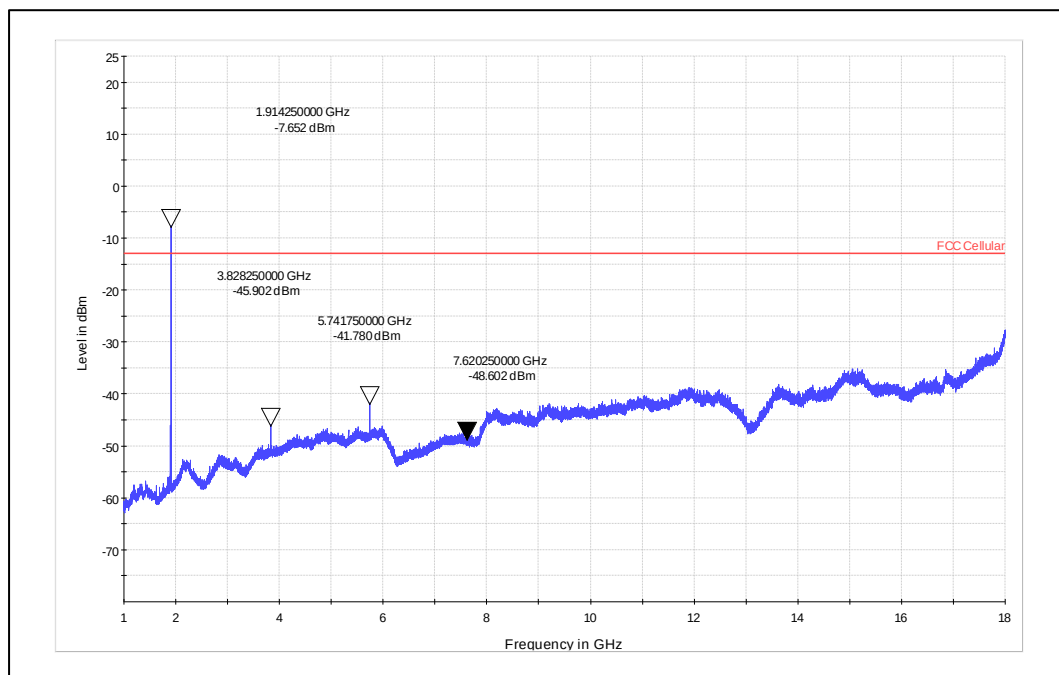
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Channel Frequency: 1905MHz; Modulation: 16QAM; 1RB#99



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

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Test Results for WCDMA Band 2:

Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2	1852.40	3704.80	Vertical	-42.22	-13.00	-29.22
		5557.20		-35.99	-13.00	-22.99
		7409.60		-49.85	-13.00	-36.85
		3704.80	Horizontal	-45.45	-13.00	-32.45
		5557.20		-42.09	-13.00	-29.09
		7409.60		-50.26	-13.00	-37.26
	1880.00	3760.00	Vertical	-47.26	-13.00	-34.26
		5640.00		-38.78	-13.00	-25.78
		7520.00		-49.46	-13.00	-36.46
		3760.00	Horizontal	-41.09	-13.00	-28.09
		5640.00		-39.18	-13.00	-26.18
		7520.00		-50.70	-13.00	-37.70
	1907.60	3815.20	Vertical	-42.23	-13.00	-29.23
		5722.80		-36.92	-13.00	-23.92
		7630.40		-50.57	-13.00	-37.57
		3815.20	Horizontal	-43.72	-13.00	-30.72
		5722.80		-43.10	-13.00	-30.10
		7630.40		-50.62	-13.00	-37.62

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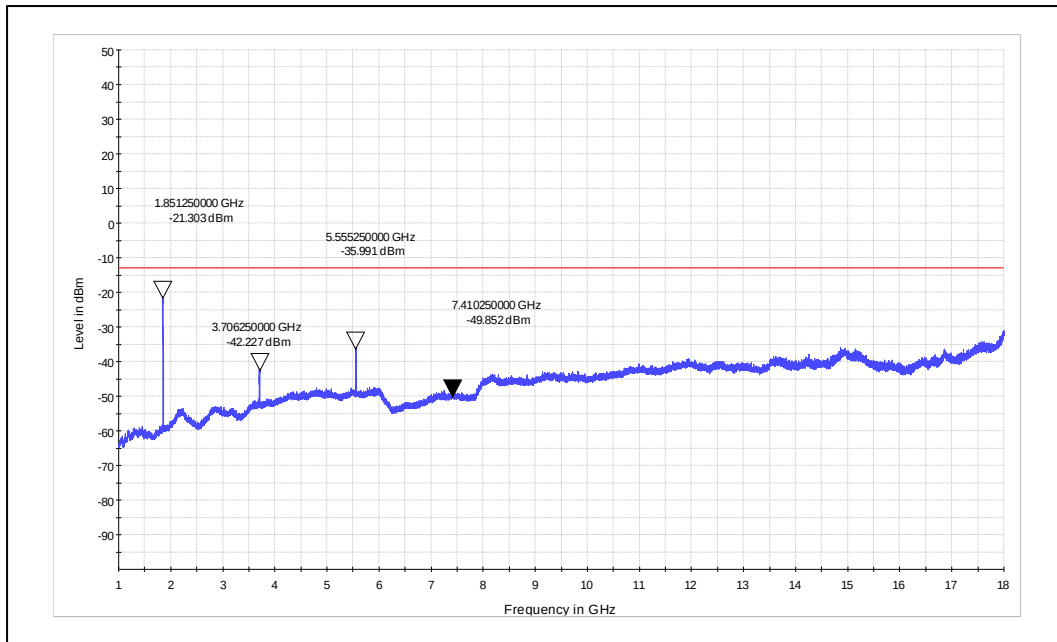
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Test Results for GSM1900MHz:

Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
GPRS	1850.20	3700.40	Vertical	-37.95	-13.00	-24.95
		5550.60		-41.06	-13.00	-28.06
		7400.80		-40.87	-13.00	-27.87
		3700.40	Horizontal	-41.28	-13.00	-28.28
		5550.60		-38.47	-13.00	-25.47
		7400.80		-44.06	-13.00	-31.06
	1880.00	3760.00	Vertical	-33.62	-13.00	-20.62
		5640.00		-42.62	-13.00	-29.62
		7520.00		-47.42	-13.00	-34.42
		3760.00	Horizontal	-37.21	-13.00	-24.21
		5640.00		-40.03	-13.00	-27.03
		7520.00		-47.19	-13.00	-34.19
	1909.80	3819.60	Vertical	-38.18	-13.00	-25.18
		5729.40		-43.80	-13.00	-30.80
		7639.20		-48.35	-13.00	-35.35
		3819.60	Horizontal	-35.95	-13.00	-22.95
		5729.40		-42.52	-13.00	-29.52
		7639.20		-49.59	-13.00	-36.59
EGPRS	1850.20	3700.40	Vertical	-38.20	-13.00	-25.20
		5550.60		-43.50	-13.00	-30.50
		7400.80		-40.79	-13.00	-27.79
		3700.40	Horizontal	-41.29	-13.00	-28.29
		5550.60		-38.49	-13.00	-25.49
		7400.80		-43.85	-13.00	-30.85
	1880.00	3760.00	Vertical	-35.64	-13.00	-22.64
		5640.00		-42.90	-13.00	-29.90
		7520.00		-48.05	-13.00	-35.05
		3760.00	Horizontal	-41.72	-13.00	-28.72
		5640.00		-40.66	-13.00	-27.66
		7520.00		-47.57	-13.00	-34.57
	1909.80	3819.60	Vertical	-38.05	-13.00	-25.05
		5729.40		-44.91	-13.00	-31.91
		7639.20		-45.48	-13.00	-32.48
		3819.60	Horizontal	-37.03	-13.00	-24.03
		5729.40		-42.05	-13.00	-29.05
		7639.20		-48.81	-13.00	-35.81

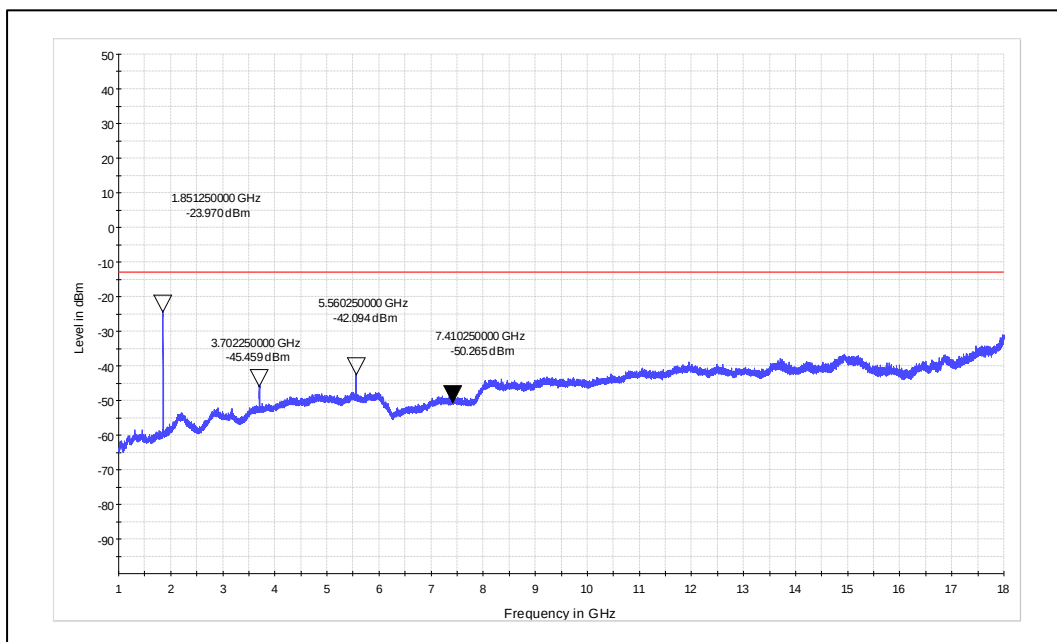
Test Plots for WCDMA:

Channel Frequency: 1852.4MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

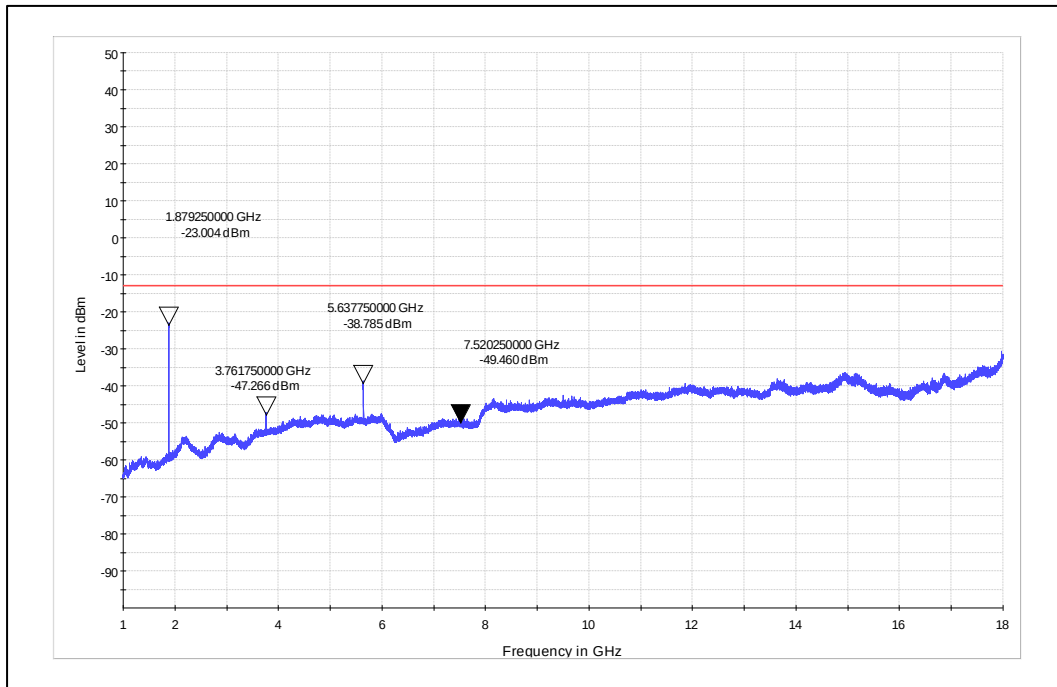
Antenna Polarization: Horizontal

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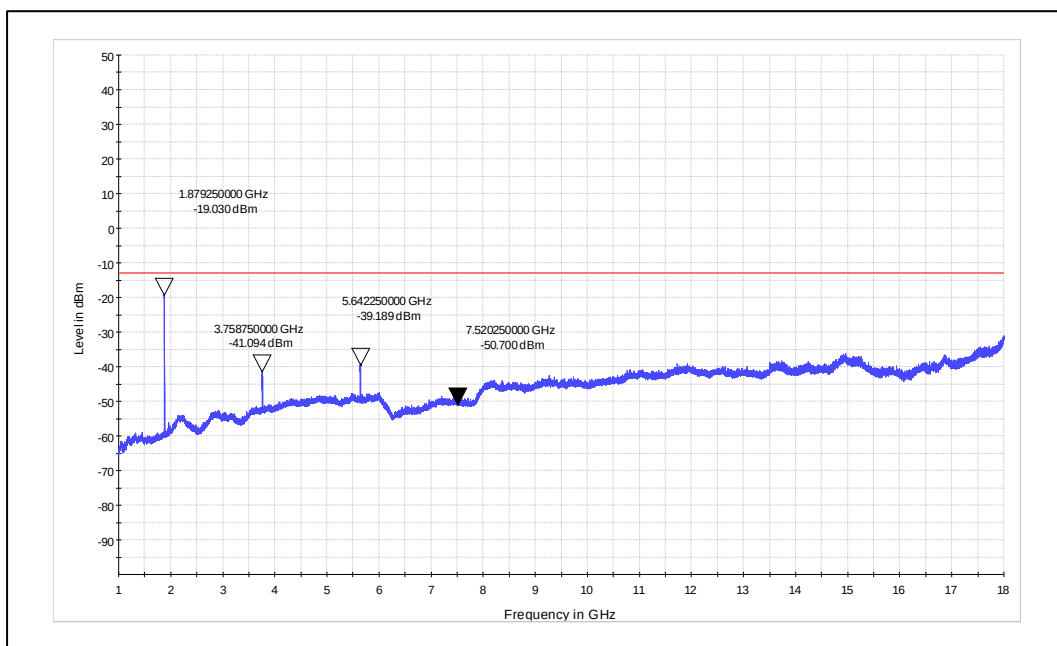
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Channel Frequency: 1880MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

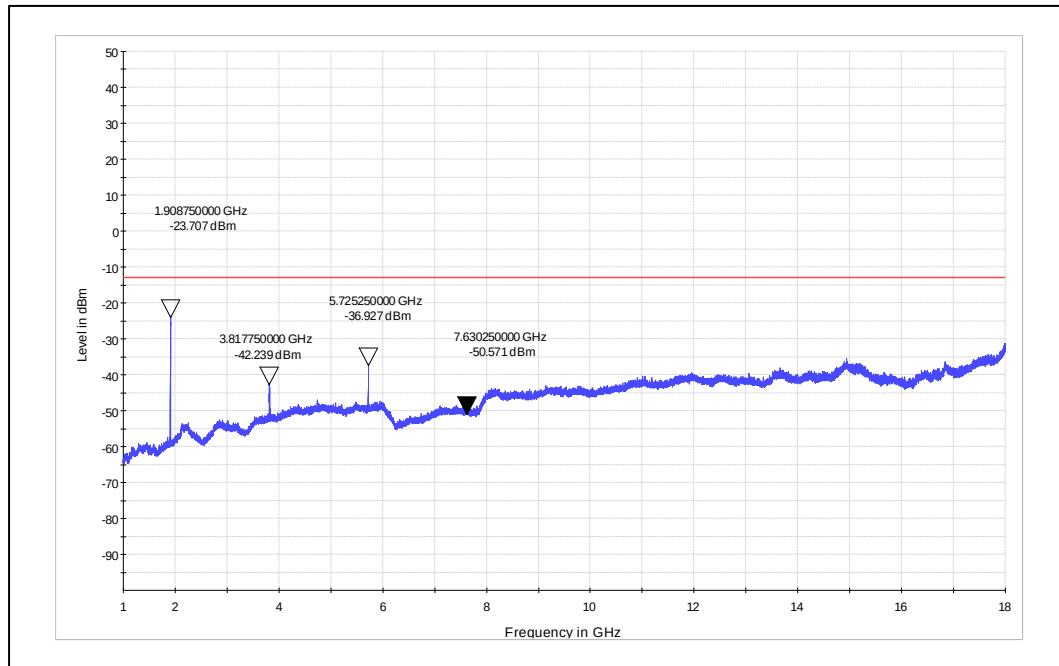
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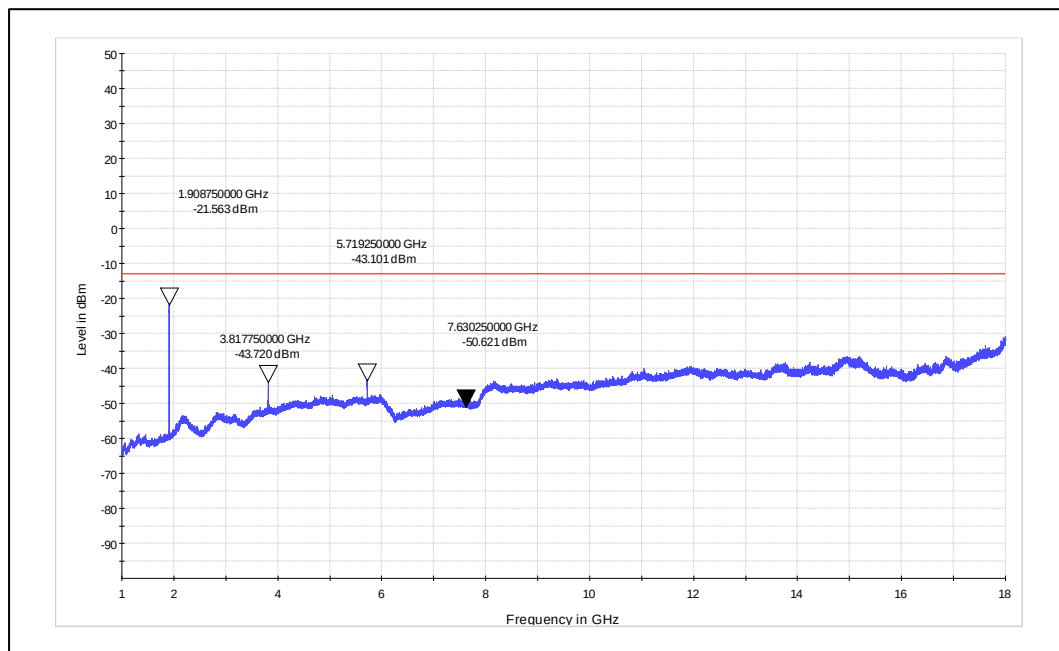
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Channel Frequency: 1907.6MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

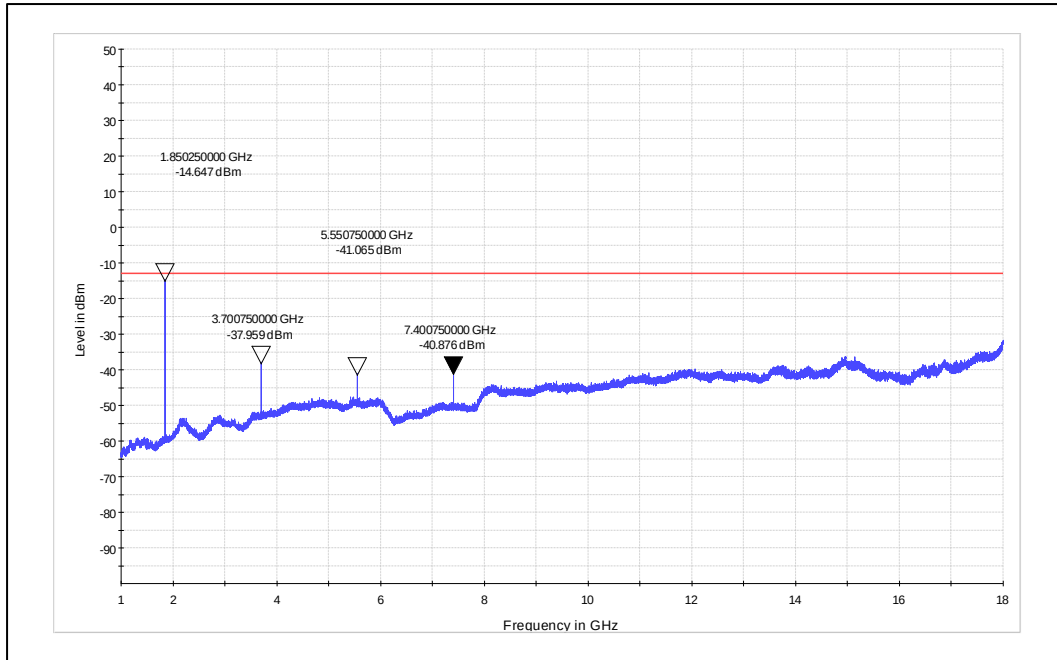
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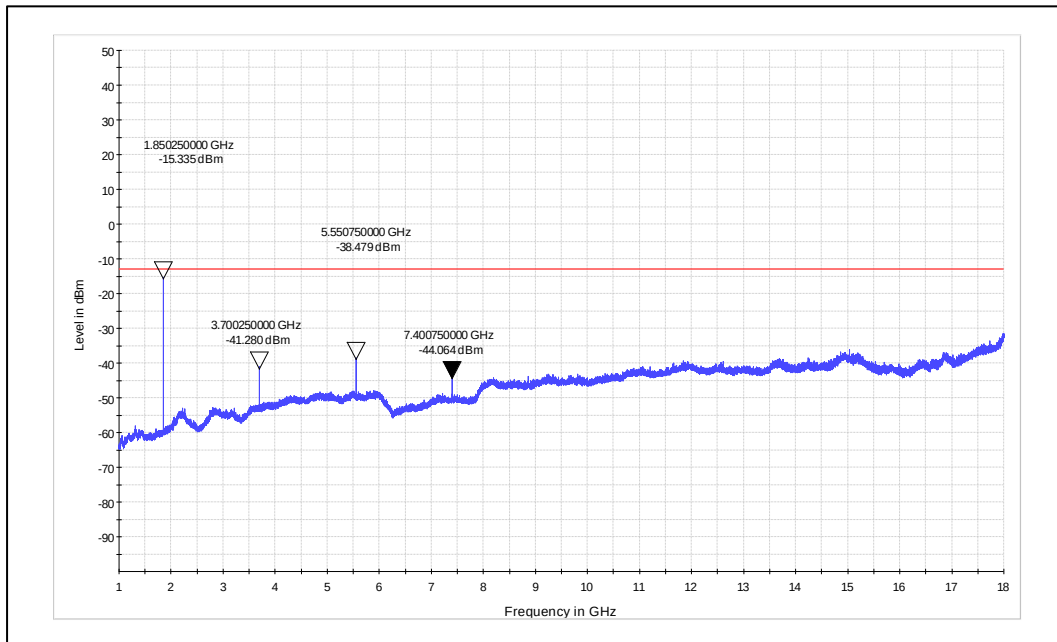
Test Plots for GSM 1900MHz:

Channel Frequency: 1850.2MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

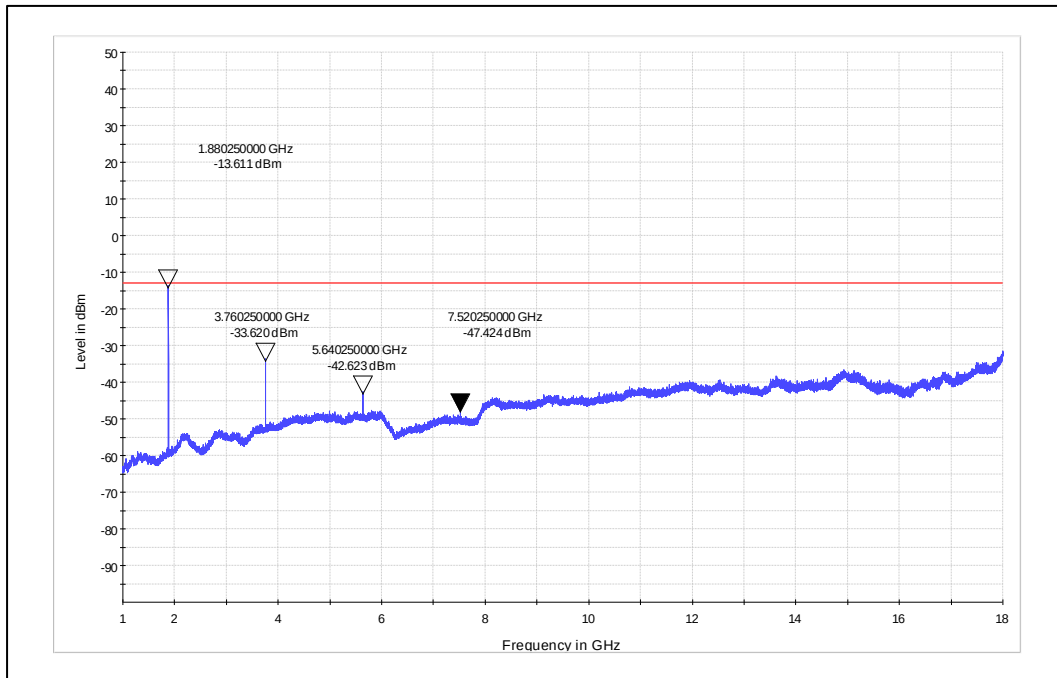
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

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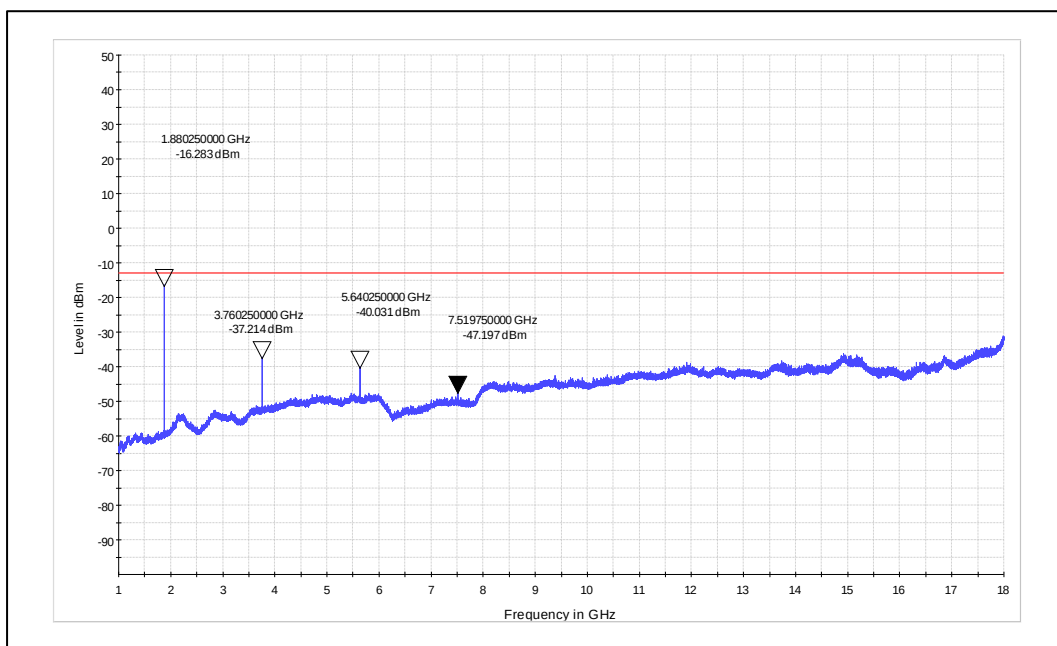
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Channel Frequency: 1880MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

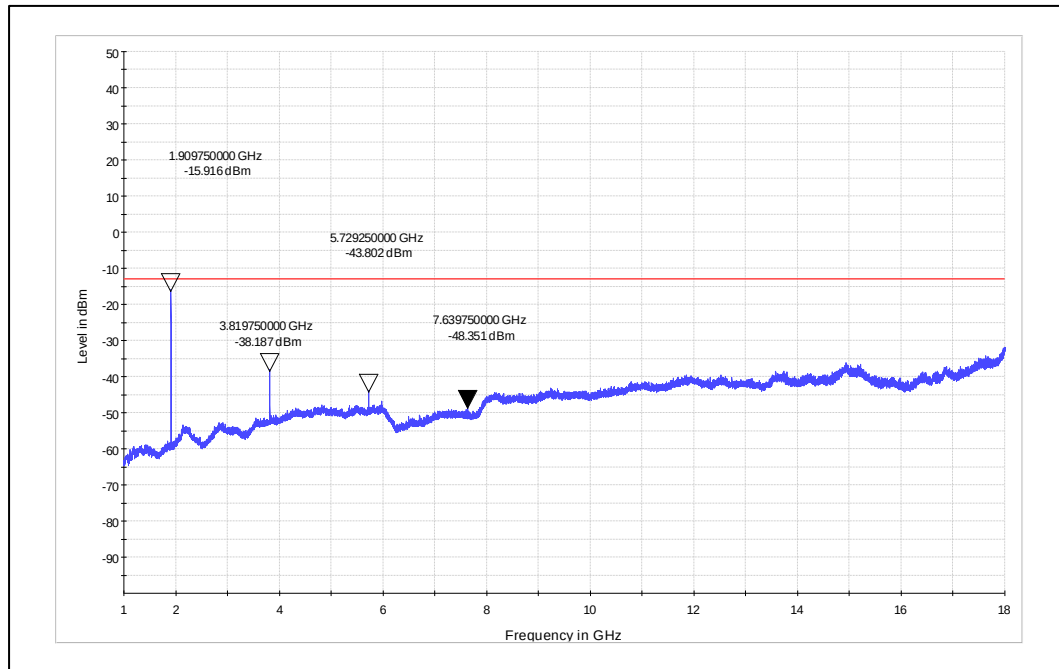
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

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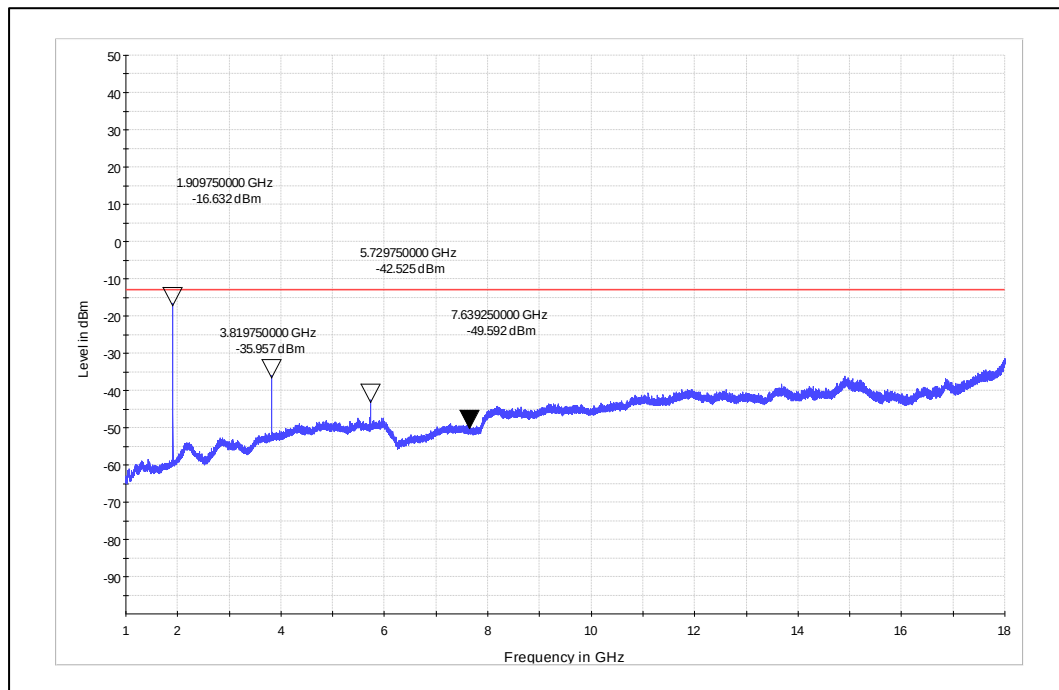
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Channel Frequency: 1909.80MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

Test Report No.:

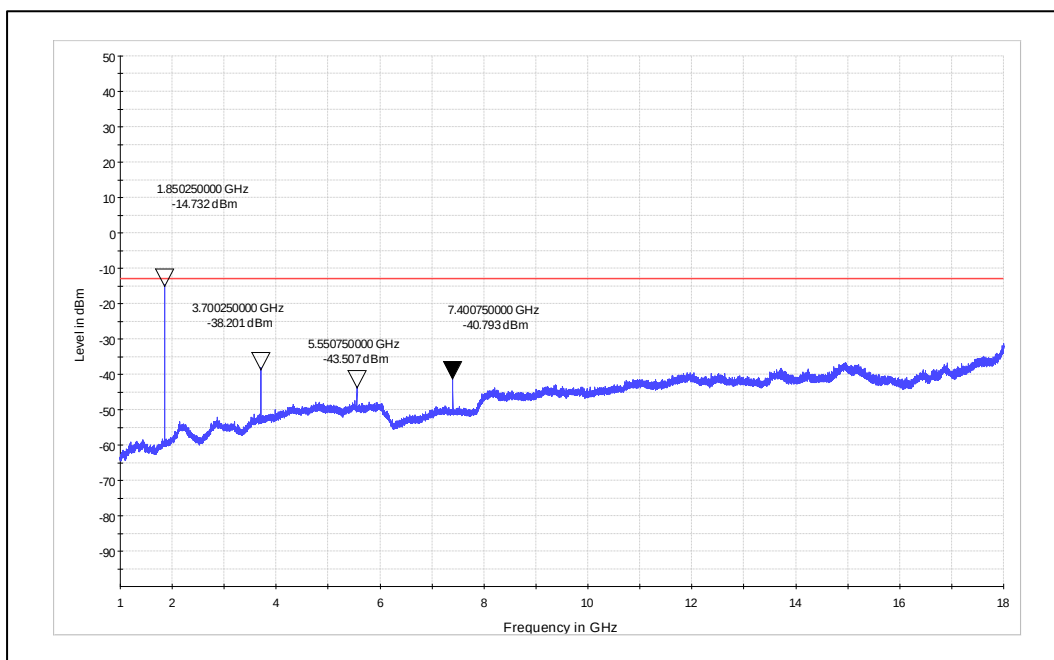
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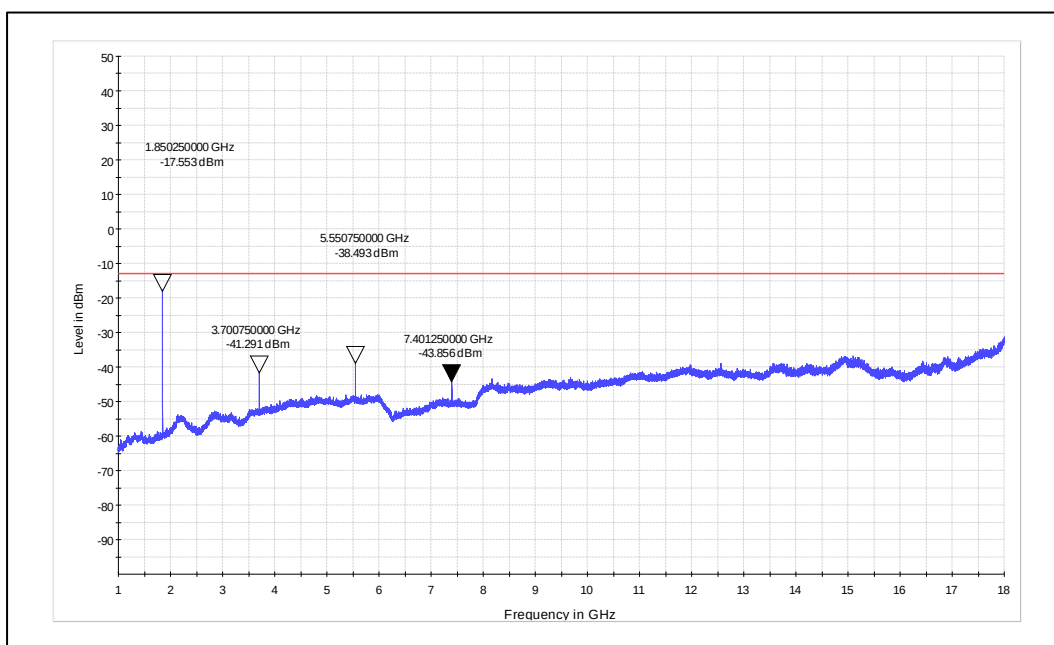
GSM1900_EGPRS

Channel Frequency: 1850.2MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

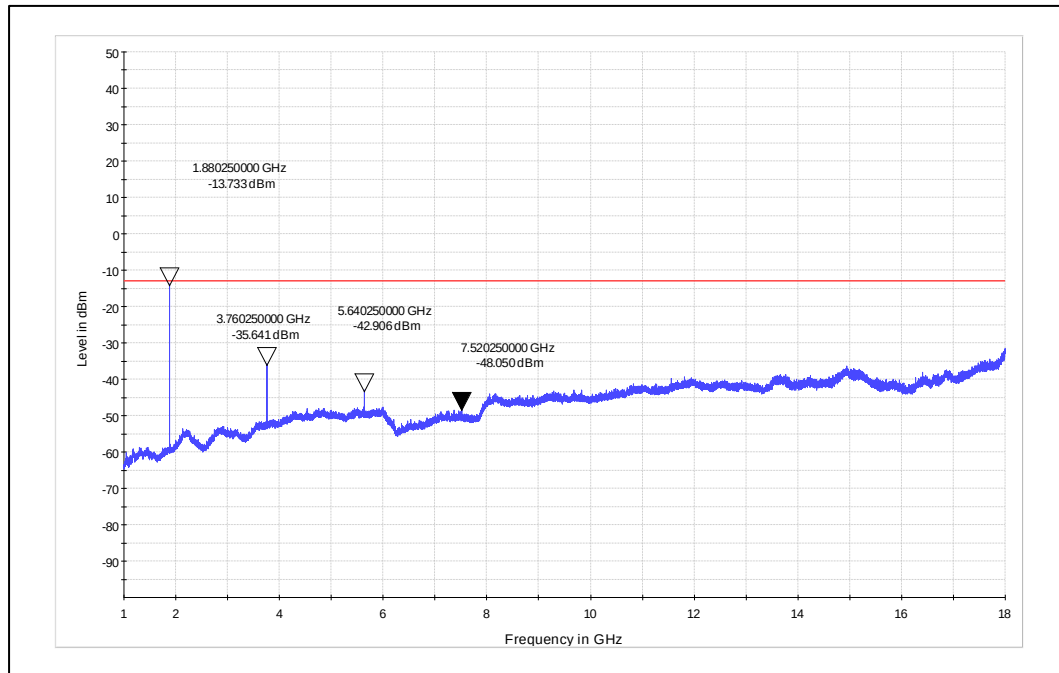
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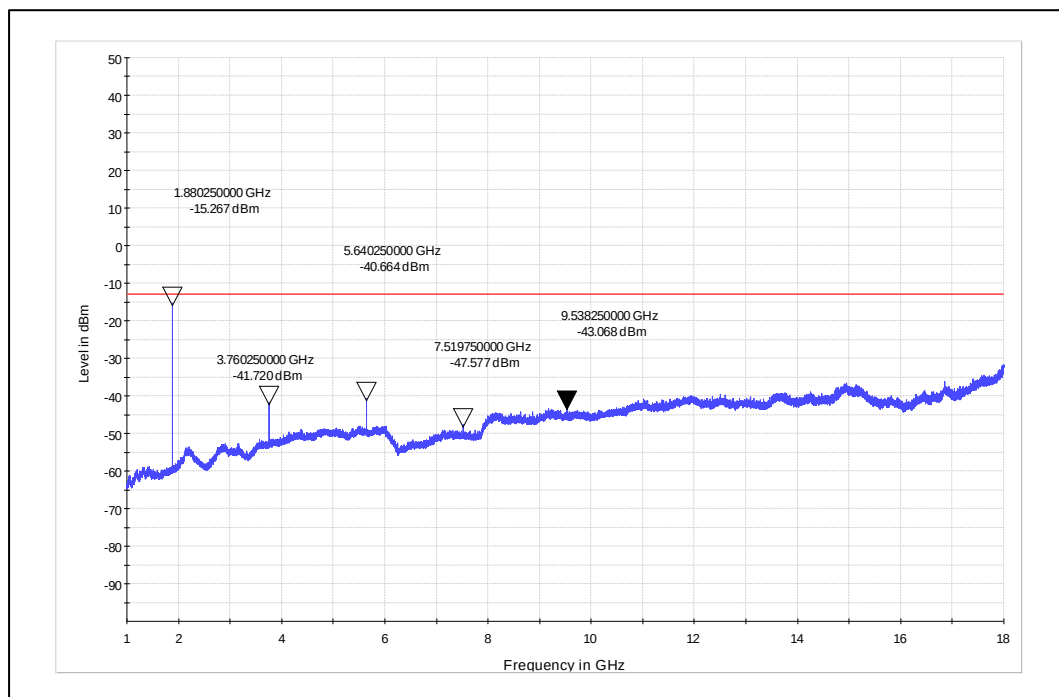
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Channel Frequency: 1880MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

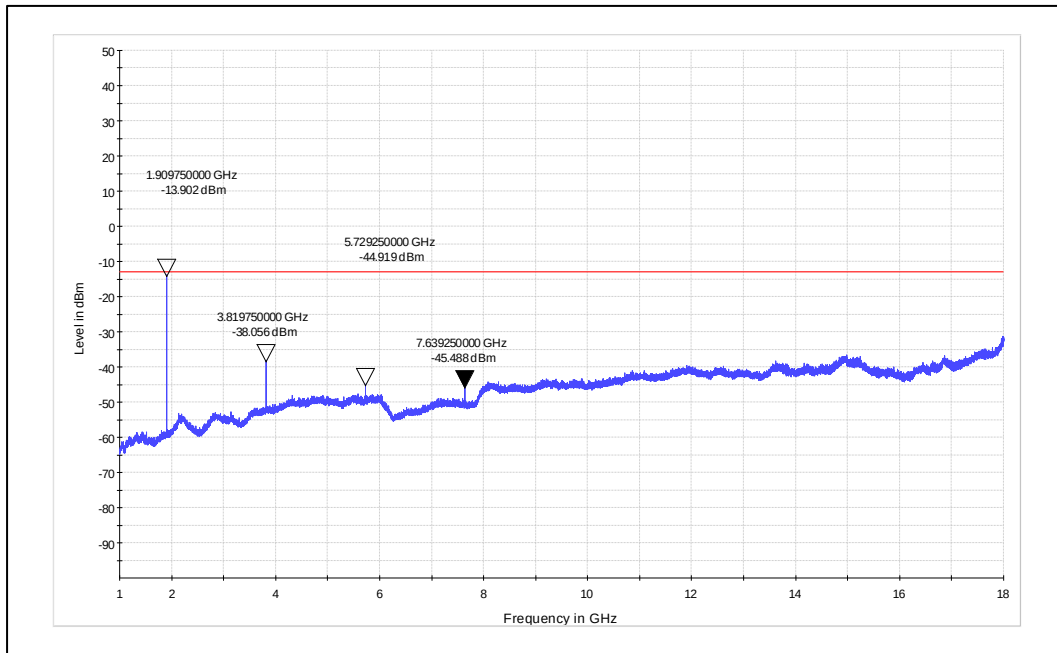
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

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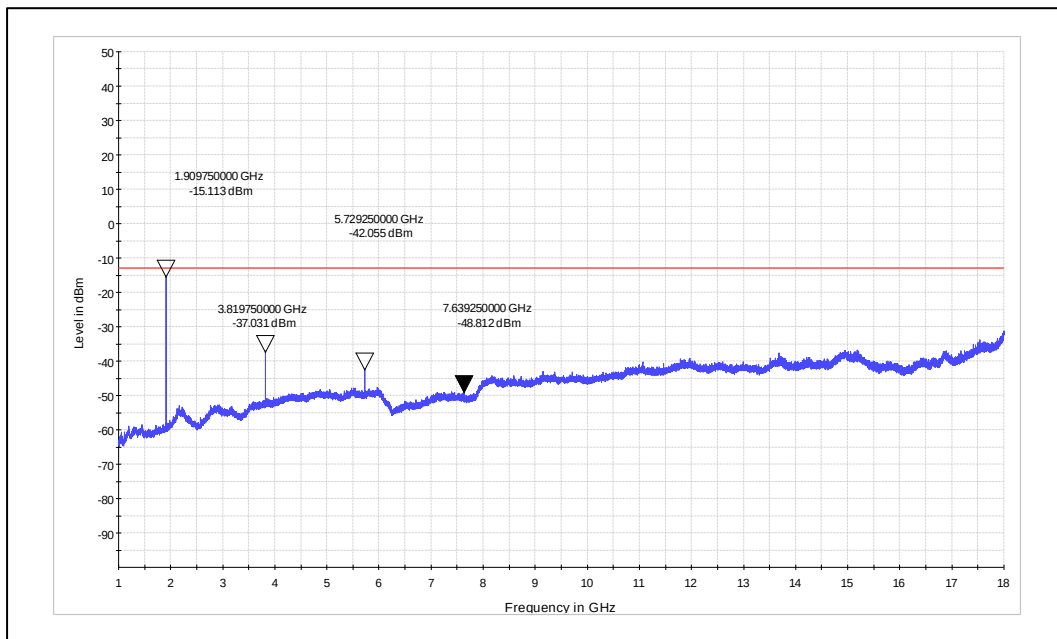
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Channel Frequency: 1909.80MHz



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

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8 AC Power Lines Conducted emission.

Result

Pass

Test Specification: FCC Part 15 Section 15.207
RSS Gen Issue 5, Section 8.8

Test Method: ANSI C 63.10-2013

Testing Location: Screened room

Measurement Bandwidth: 9kHz

Frequency Range: 150kHz – 30MHz

Supply Voltage: 110VAC,60Hz

Test Method: Refer TEST METHODOLOGY

Limits of section 15.207

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak (dBµV)	Average (dBµV)
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C Voltage (V norm) = 110VAC through mains

Relative Humidity = 64%

Prüfbericht - Nr.:

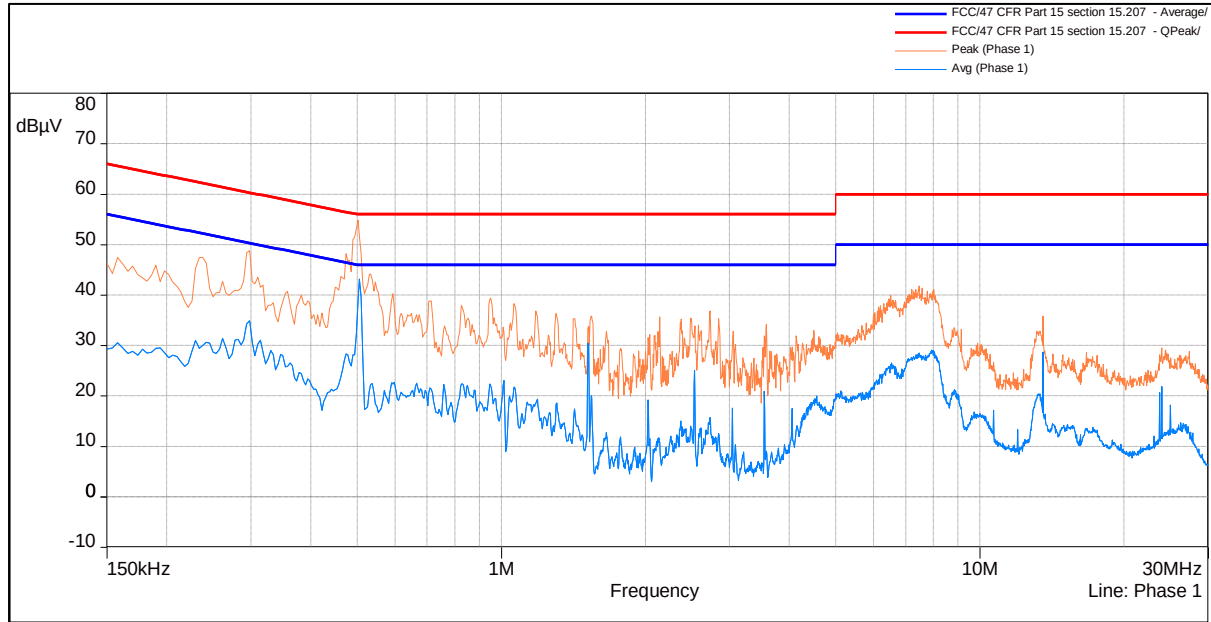
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Test results:

110VAC-60Hz-Line



Quasi Peak:

Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50425	44.93	56	-11.07	Pass
0.29665	45.4	60.3	-14.9	Pass
0.94415	36.19	56	-19.81	Pass
0.2345	40.73	62.31	-21.58	Pass
1.52025	33.54	56	-22.46	Pass
7.91375	35.9	60	-24.1	Pass
1.2966	31.83	56	-24.17	Pass
13.5616	33.98	60	-26.02	Pass
2.5349	29.44	56	-26.56	Pass

Average:

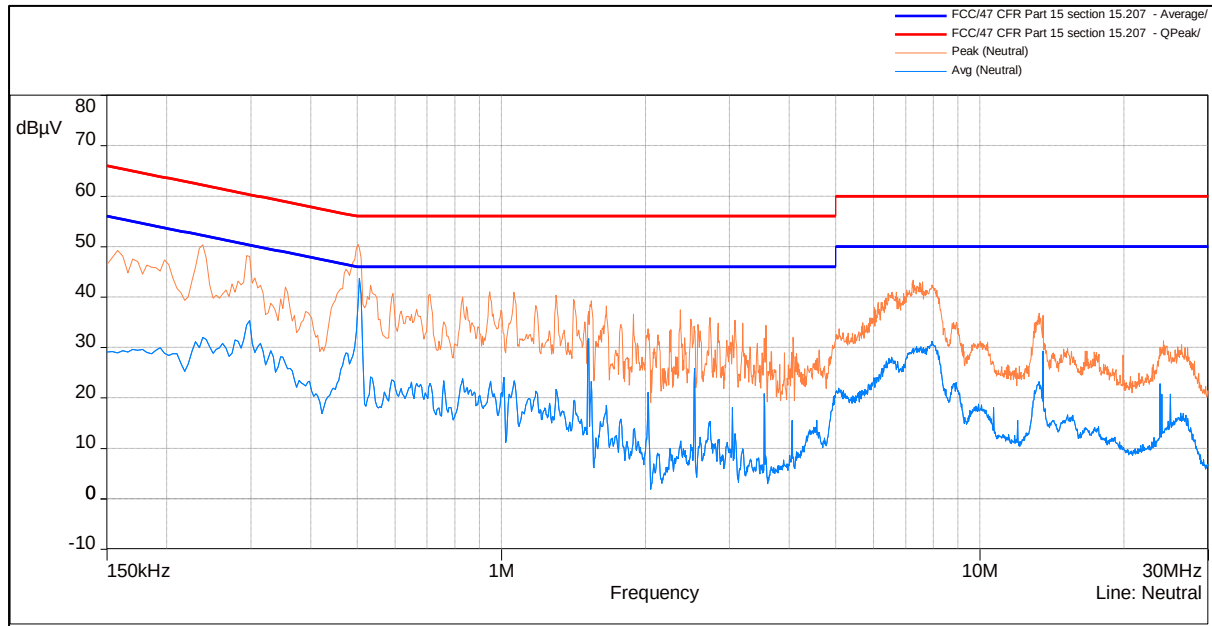
Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50425	41.63	46	-4.37	Pass
1.52025	32.17	46	-13.83	Pass
0.29665	34.77	50.3	-15.53	Pass
2.5349	25.6	46	-20.4	Pass
13.5616	27.57	50	-22.43	Pass
7.91375	27.36	50	-22.64	Pass
0.94415	21.87	46	-24.13	Pass
0.2345	27.61	52.31	-24.7	Pass
1.2966	17.39	46	-28.61	Pass

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110VAC-60Hz-Neutral:



Quasi peak:

Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Comments
0.50285	44.4	56	-11.6	Pass
0.29845	43.56	60.3	-16.74	Pass
0.2371	42.89	62.17	-19.28	Pass
1.06335	36.61	56	-19.39	Pass
1.53685	35.4	56	-20.6	Pass
7.95285	37.33	60	-22.67	Pass
13.55885	34.15	60	-25.85	Pass
2.53355	28.57	56	-27.43	Pass

Average:

Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Comments
0.50285	39.16	46	-6.84	Pass
0.29845	33.45	50.3	-16.84	Pass
2.53355	25.86	46	-20.14	Pass
7.95285	28.93	50	-21.07	Pass
0.2371	30.51	52.17	-21.66	Pass
13.55885	28.29	50	-21.71	Pass
1.06335	22.37	46	-23.63	Pass
1.53685	21.66	46	-24.34	Pass

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