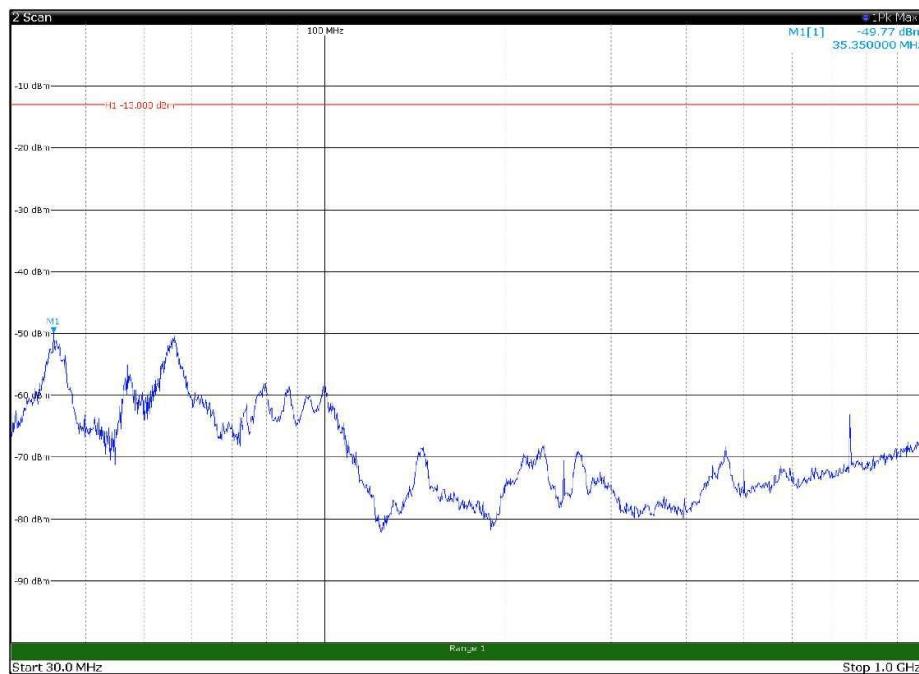
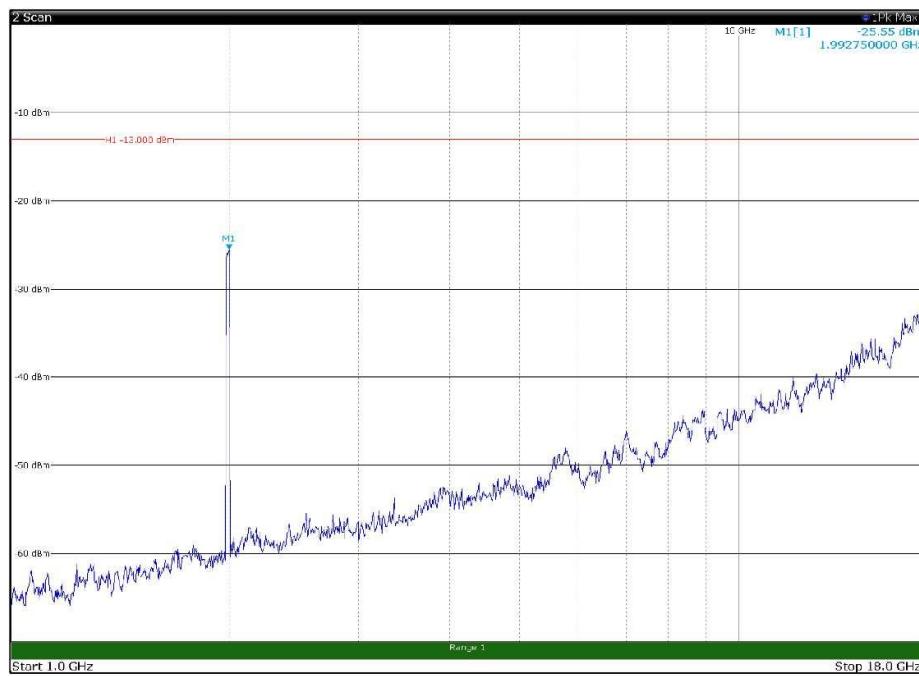


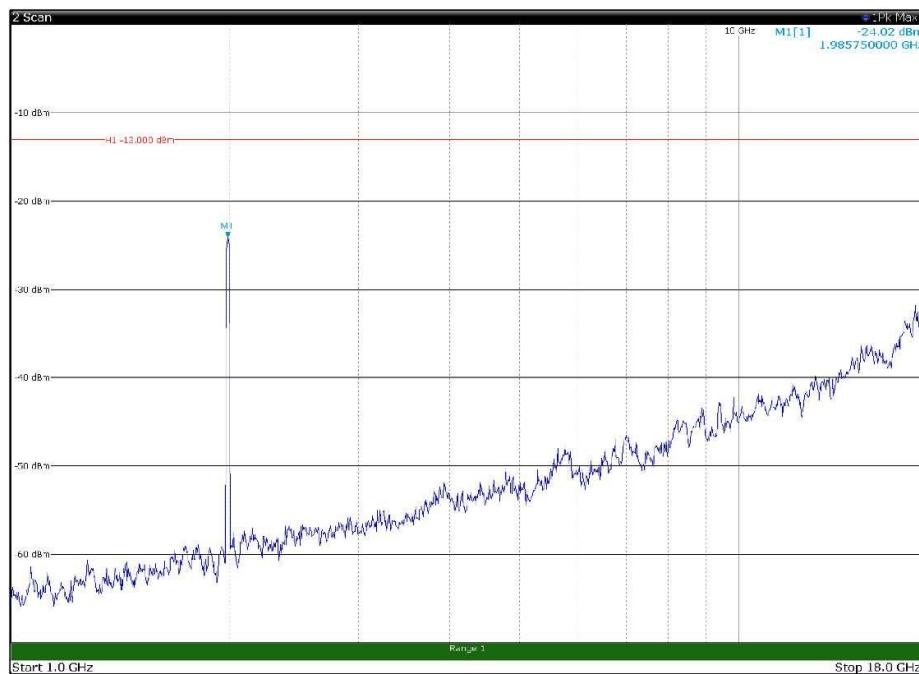
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



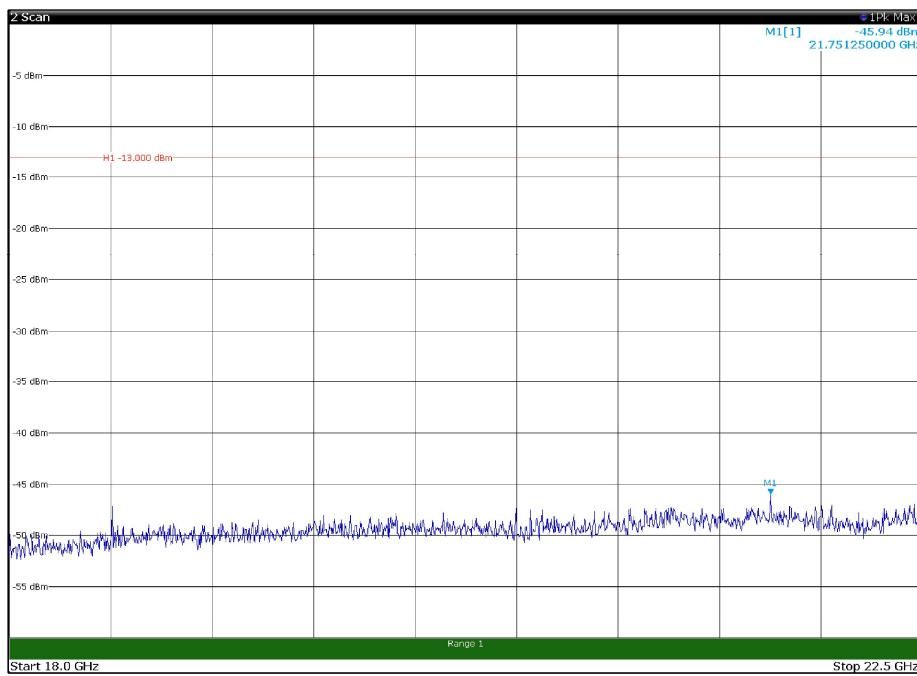
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



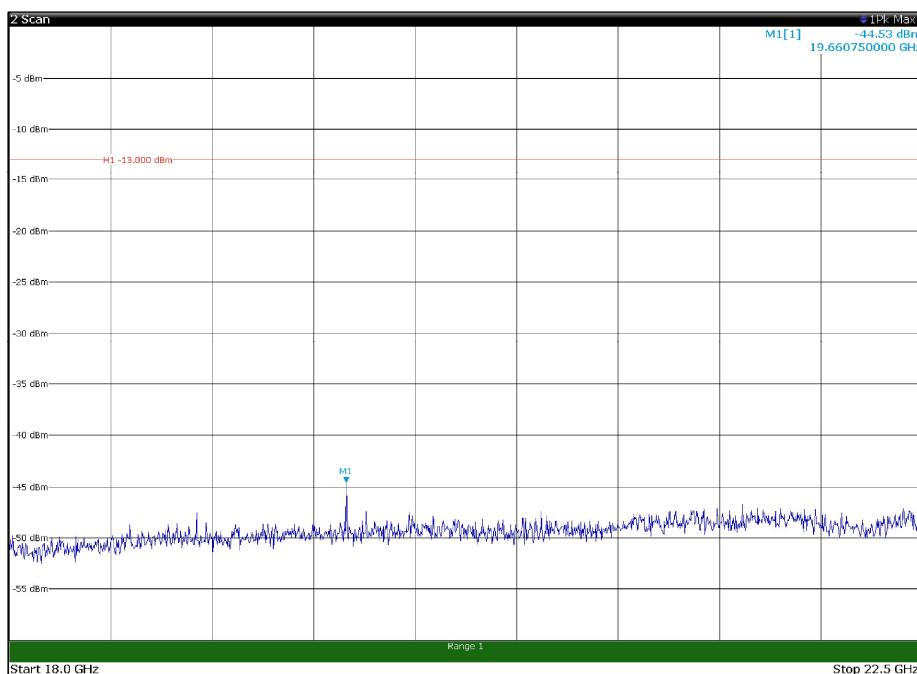
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



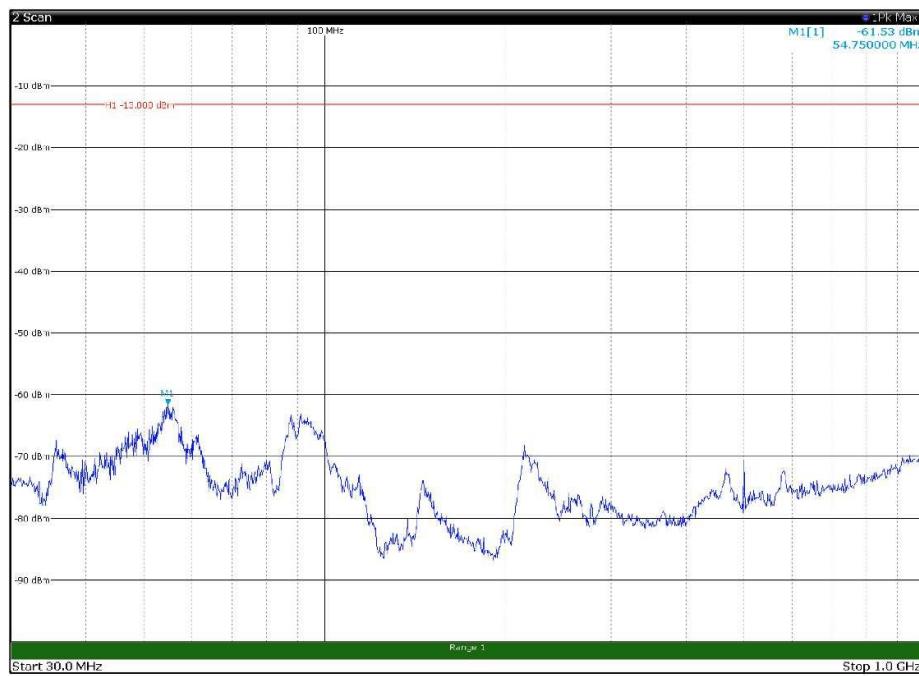
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



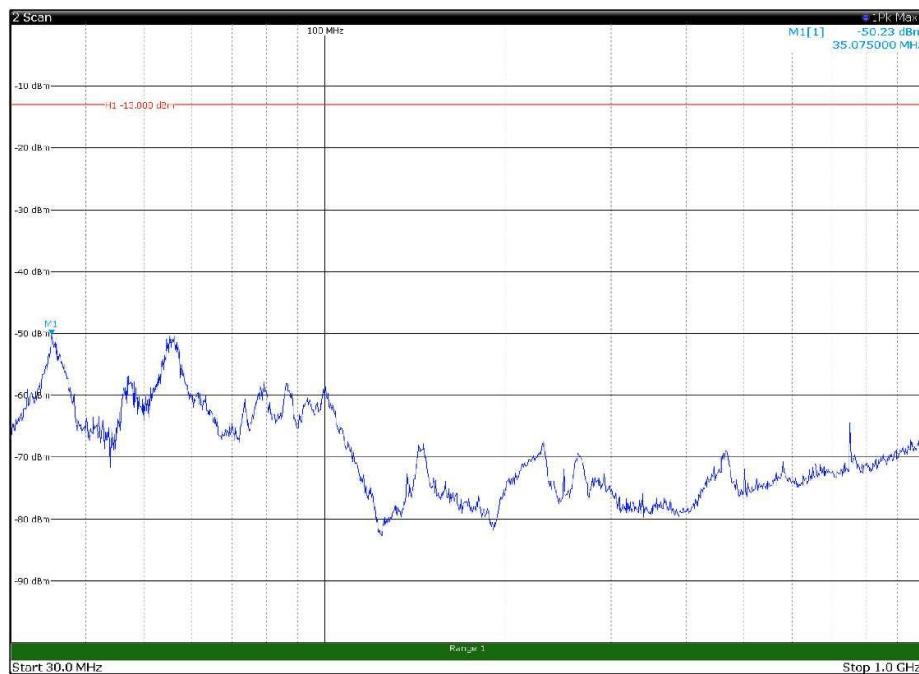
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



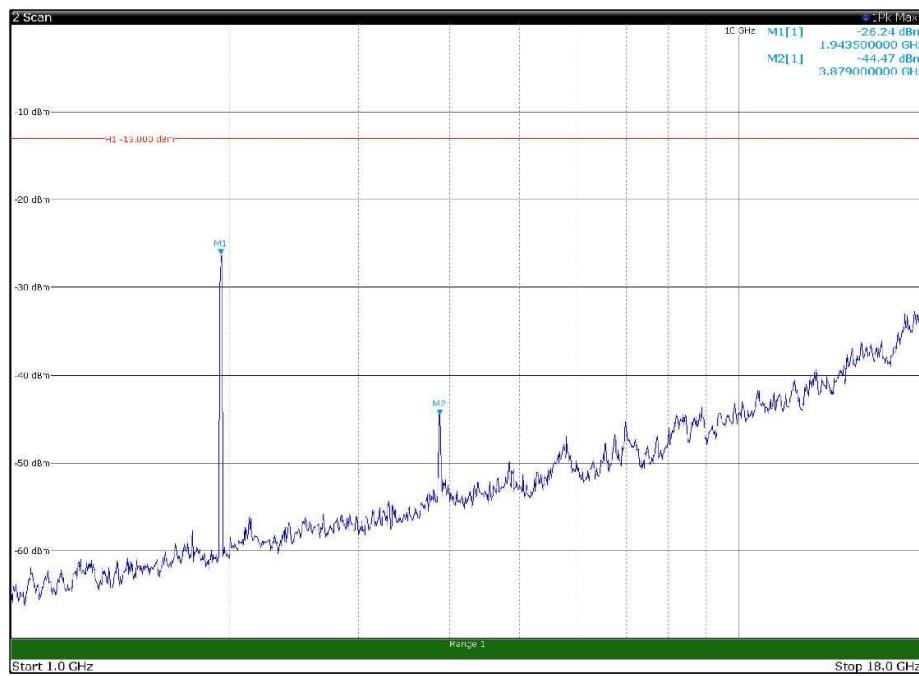
Channel: TOP, Modulation: 16QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



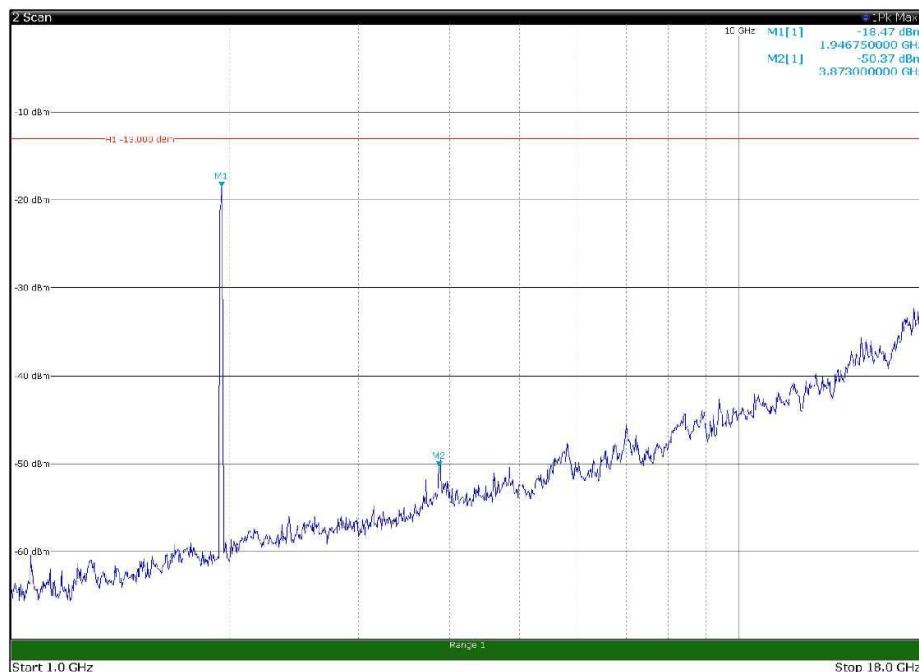
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



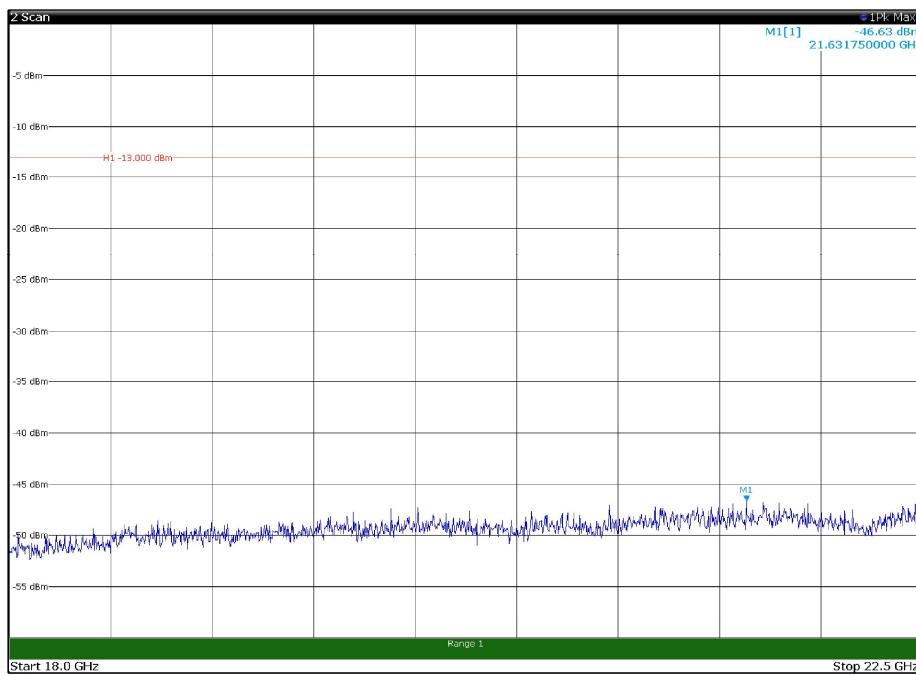
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



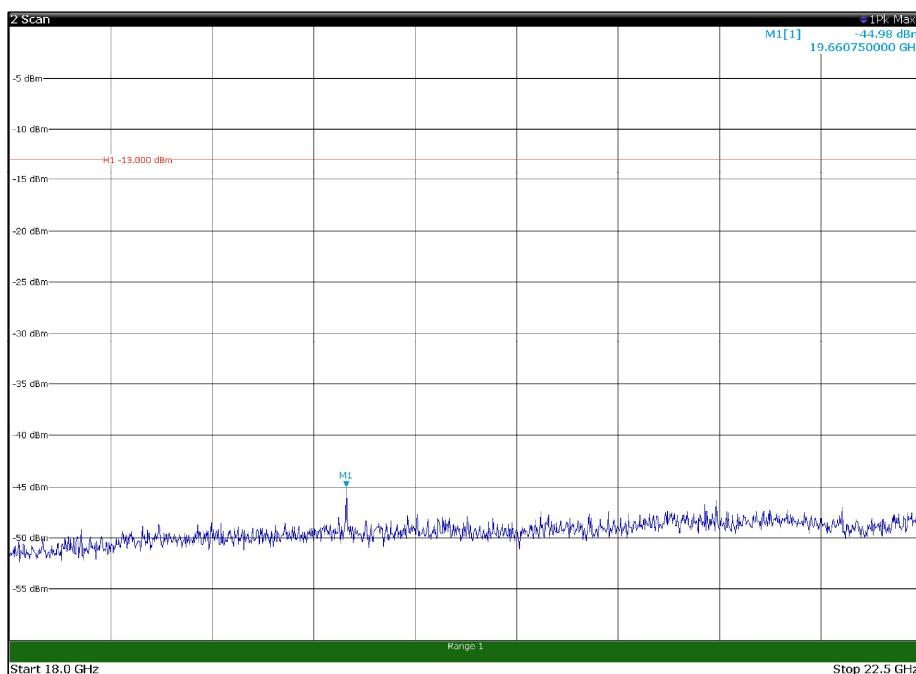
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



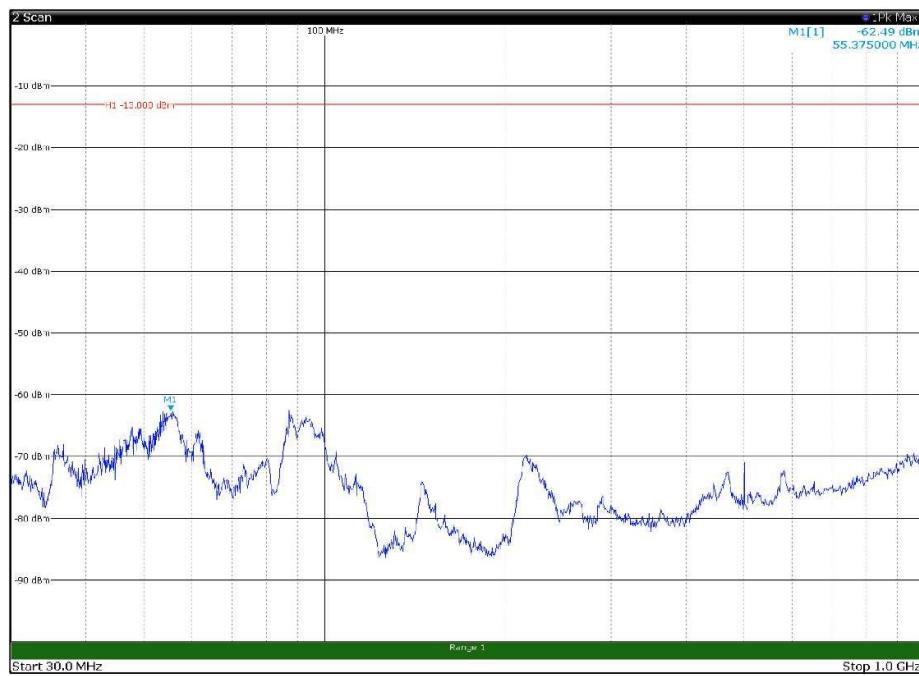
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



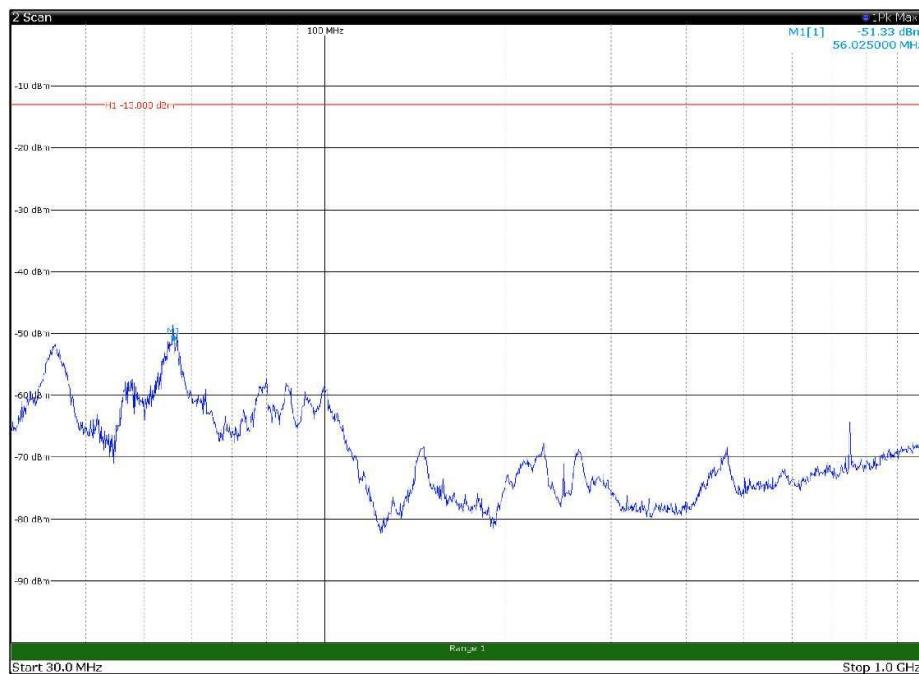
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



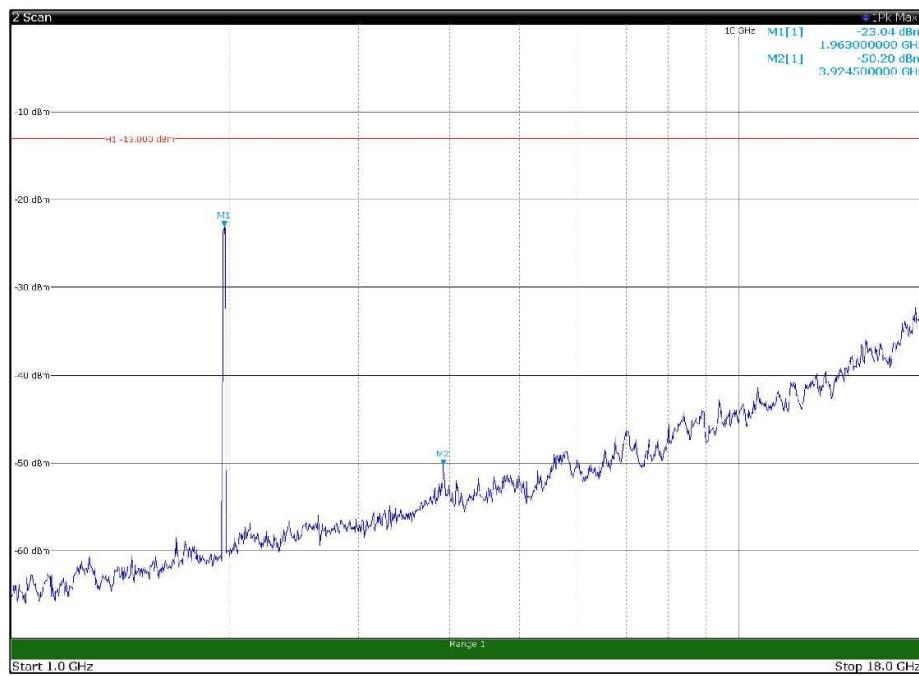
Channel: BOTTOM, Modulation: 64QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



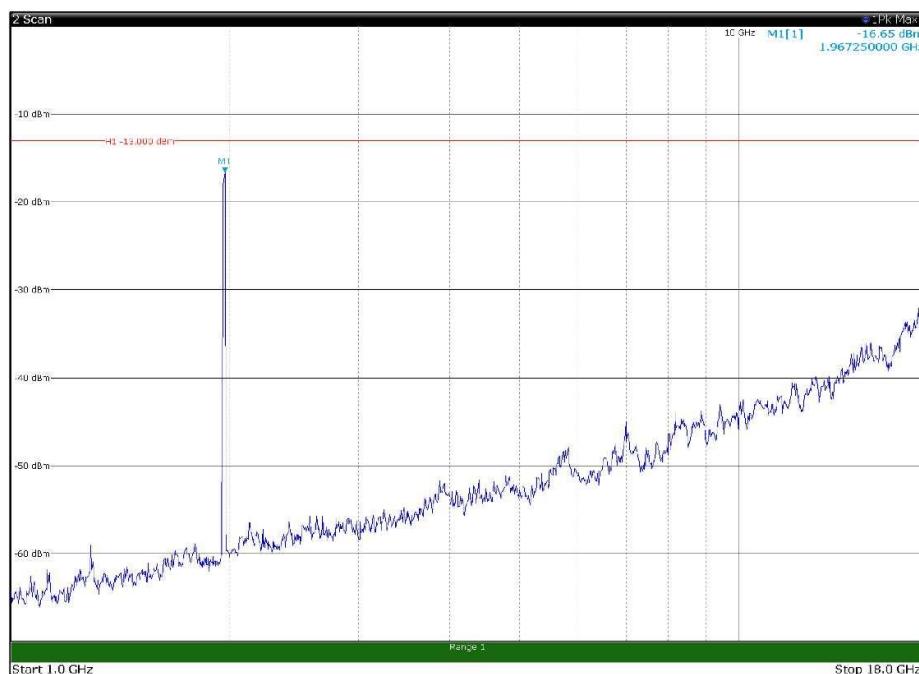
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



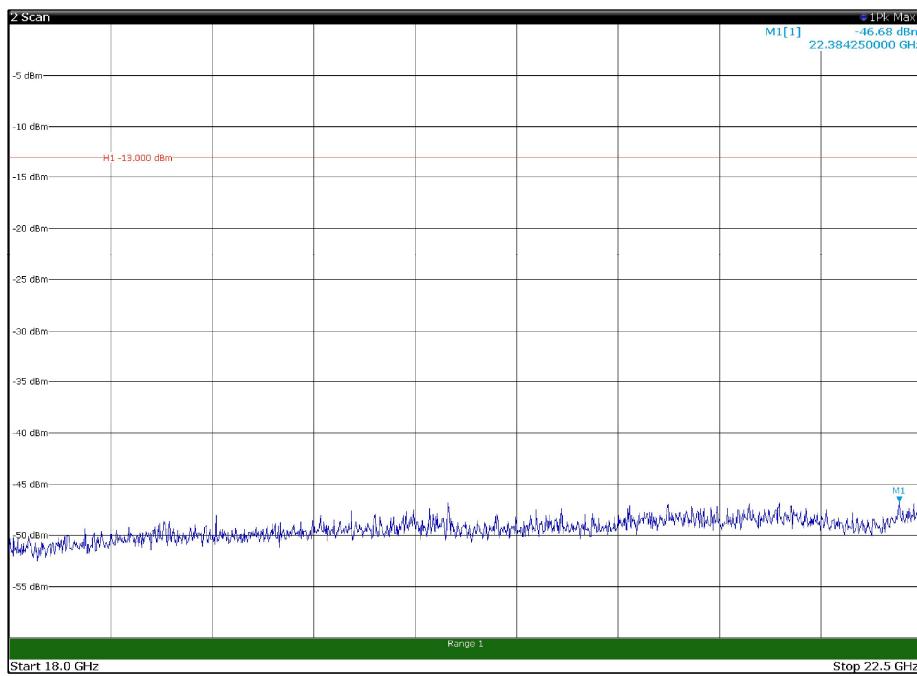
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



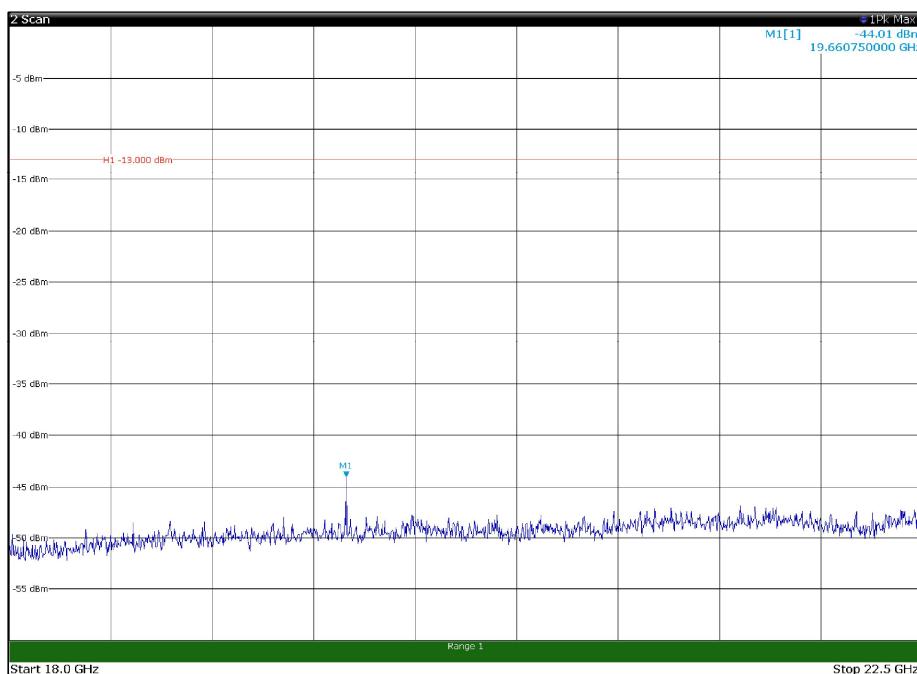
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



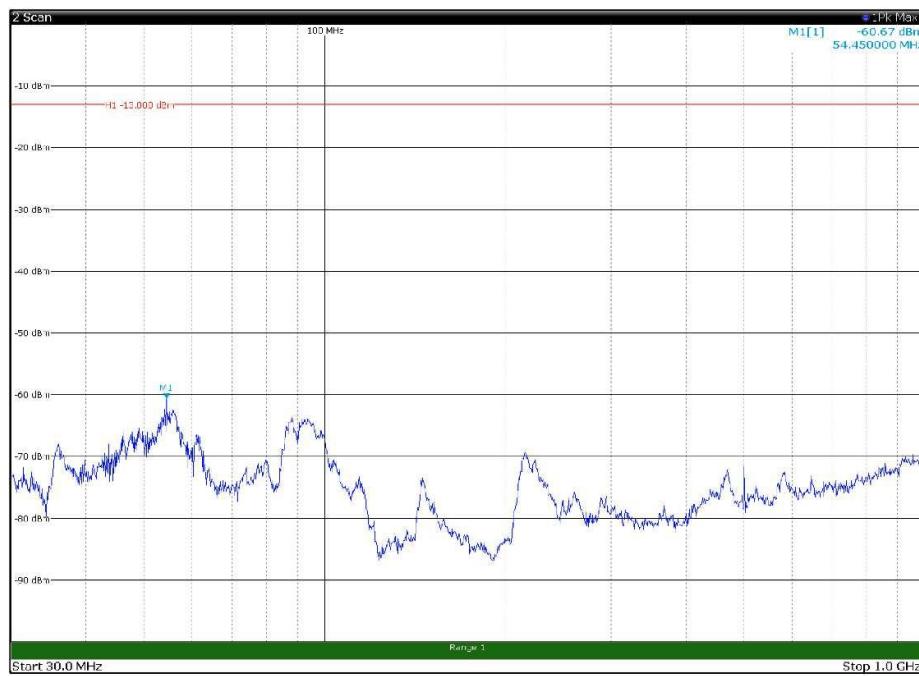
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



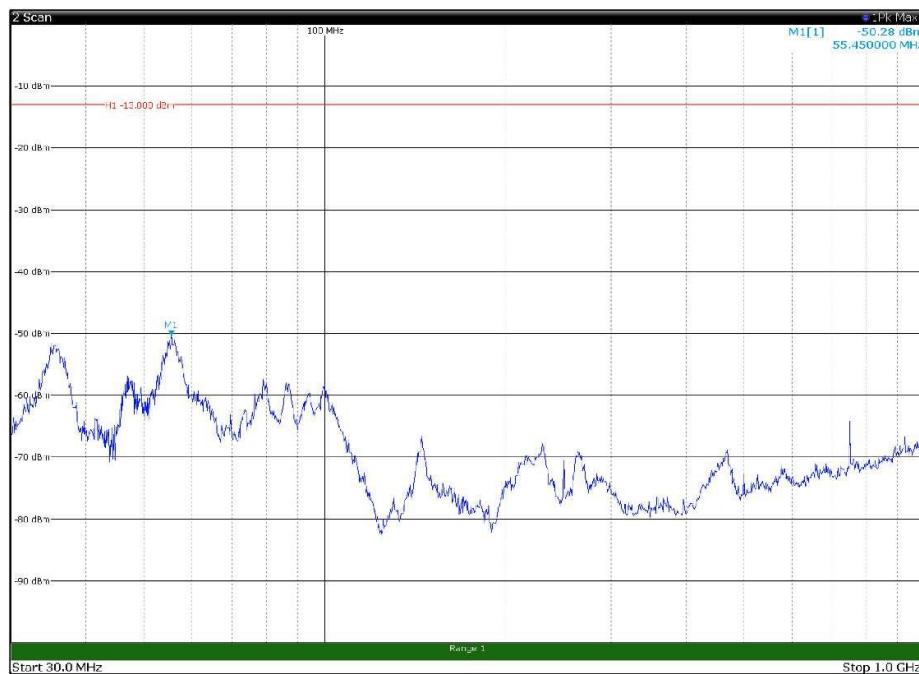
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



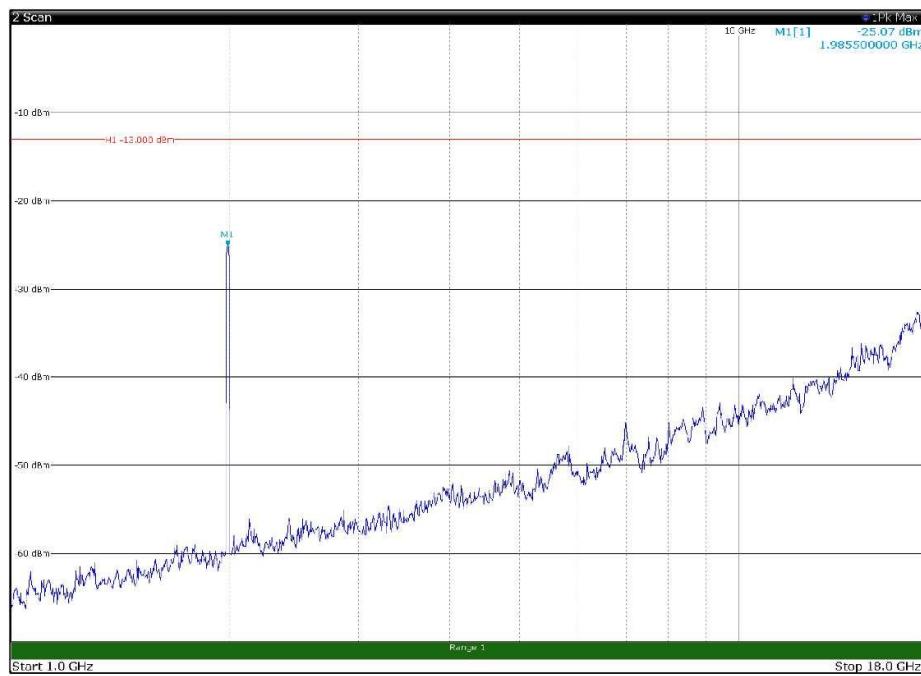
Channel: MIDDLE, Modulation: 64QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



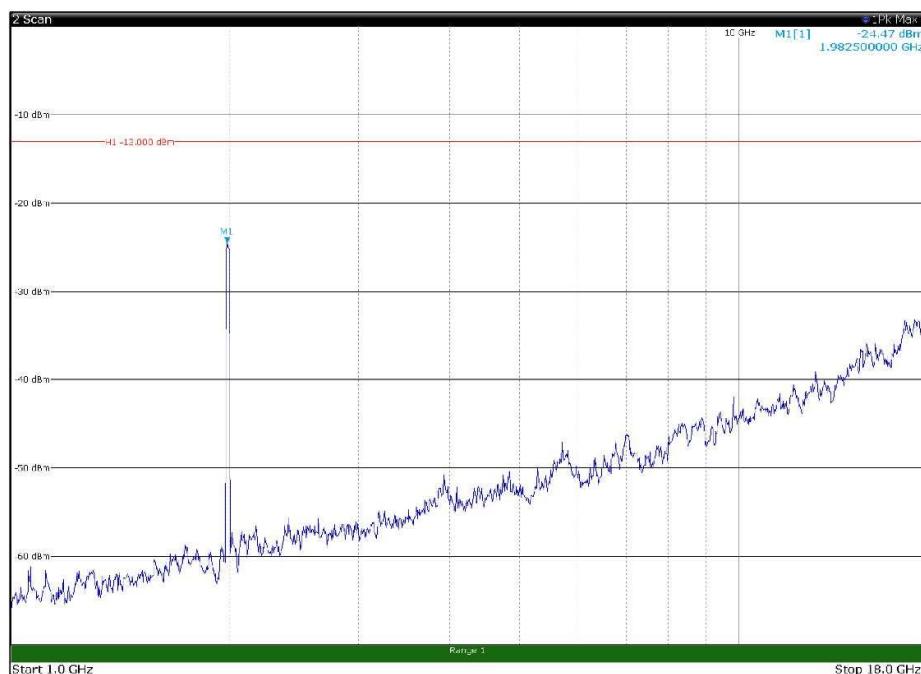
Channel: TOP, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



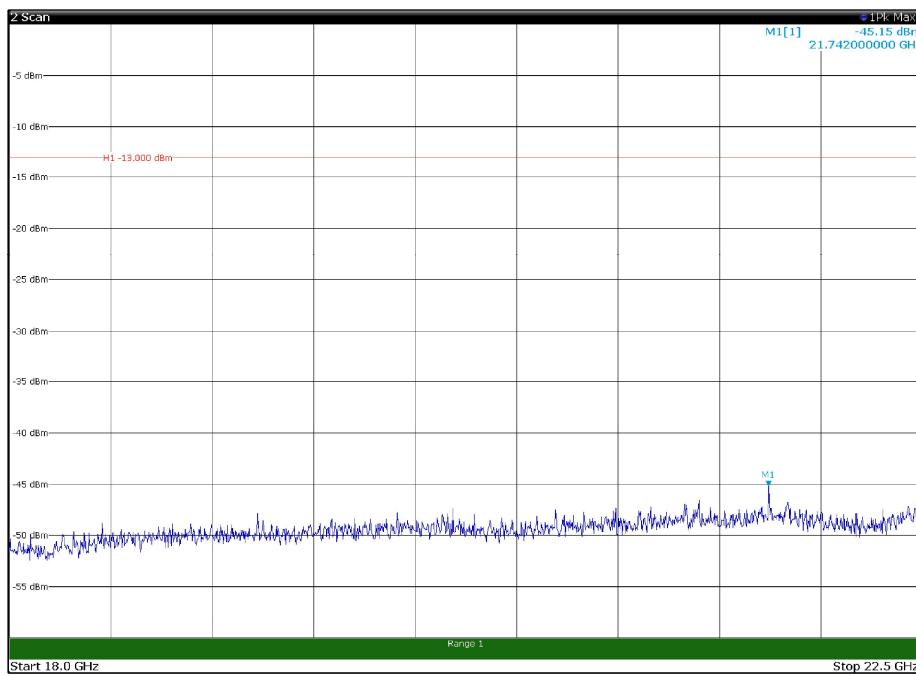
Channel: TOP, Modulation: 64QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



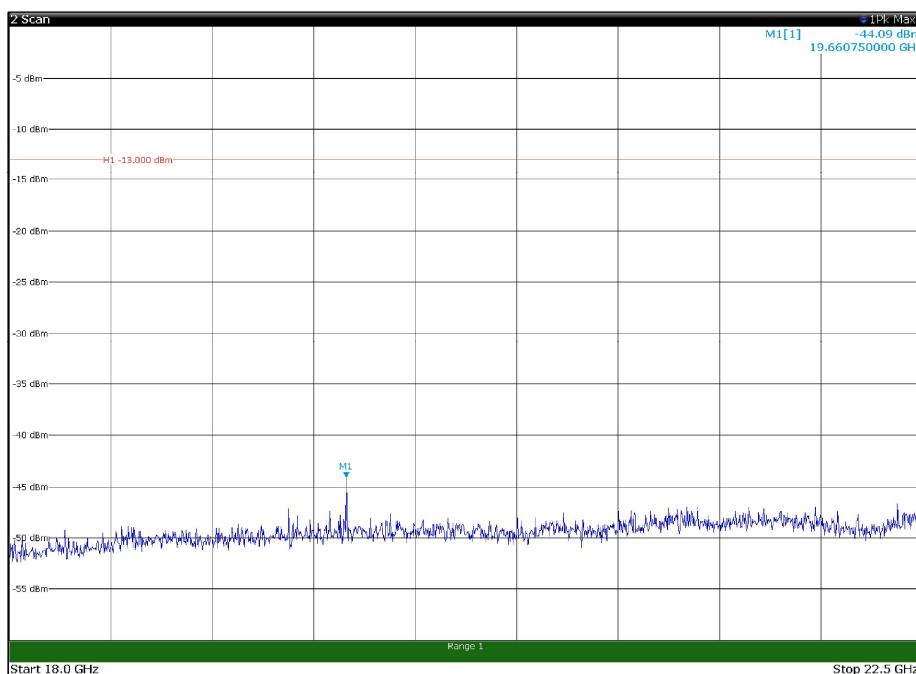
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



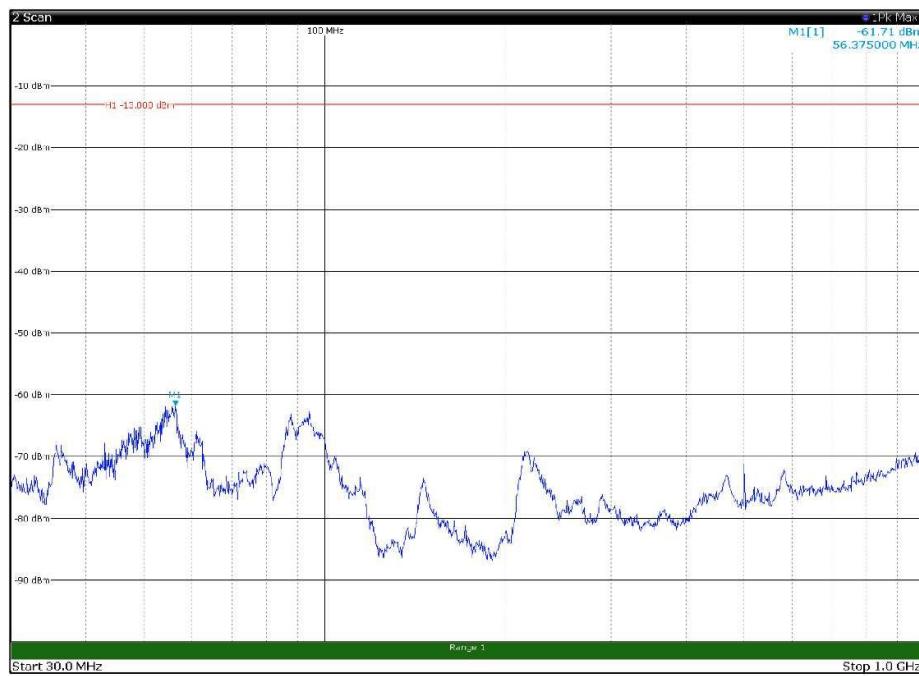
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



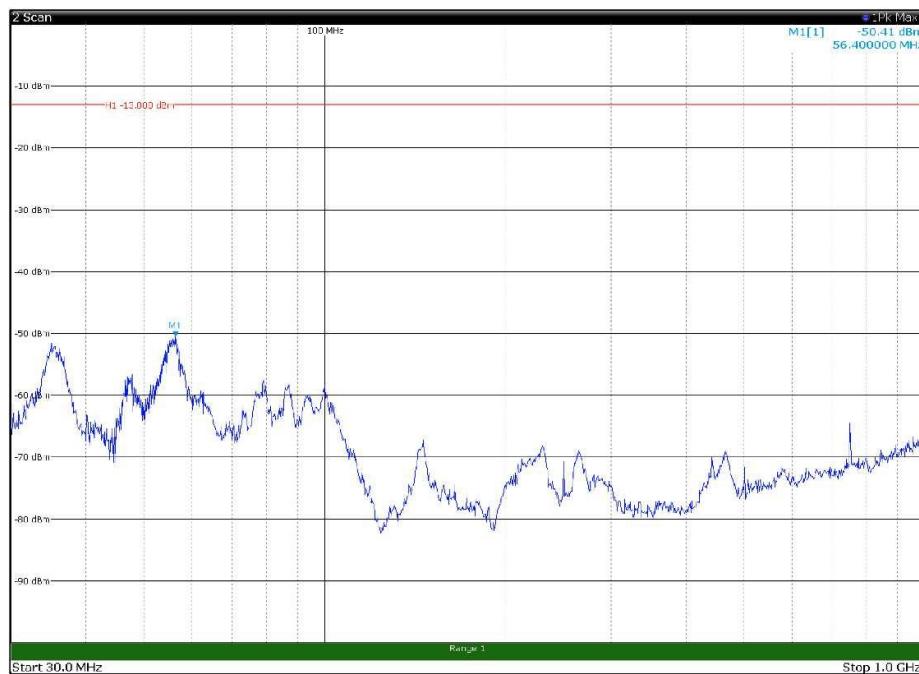
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



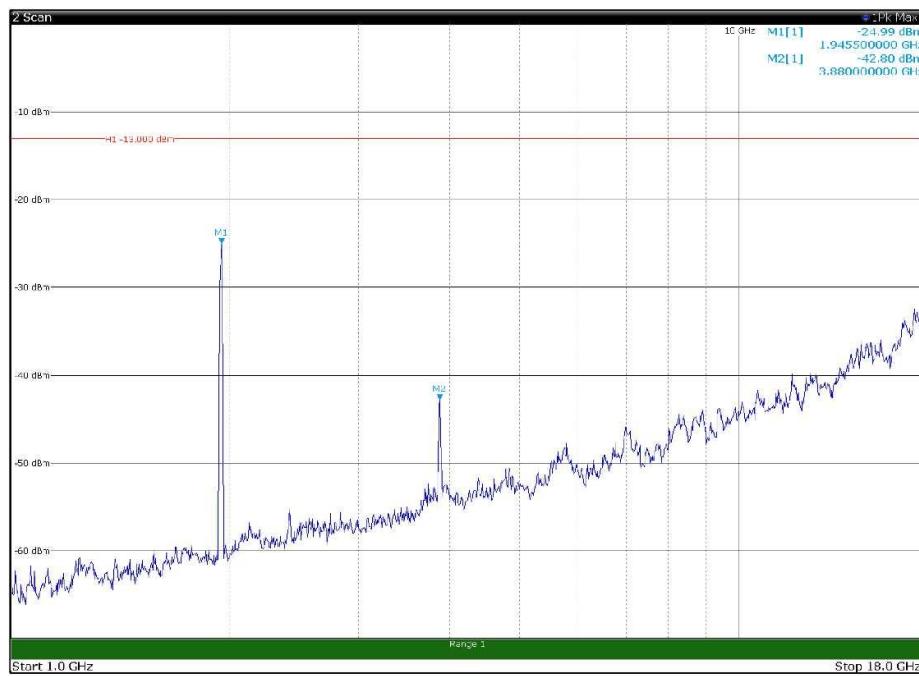
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



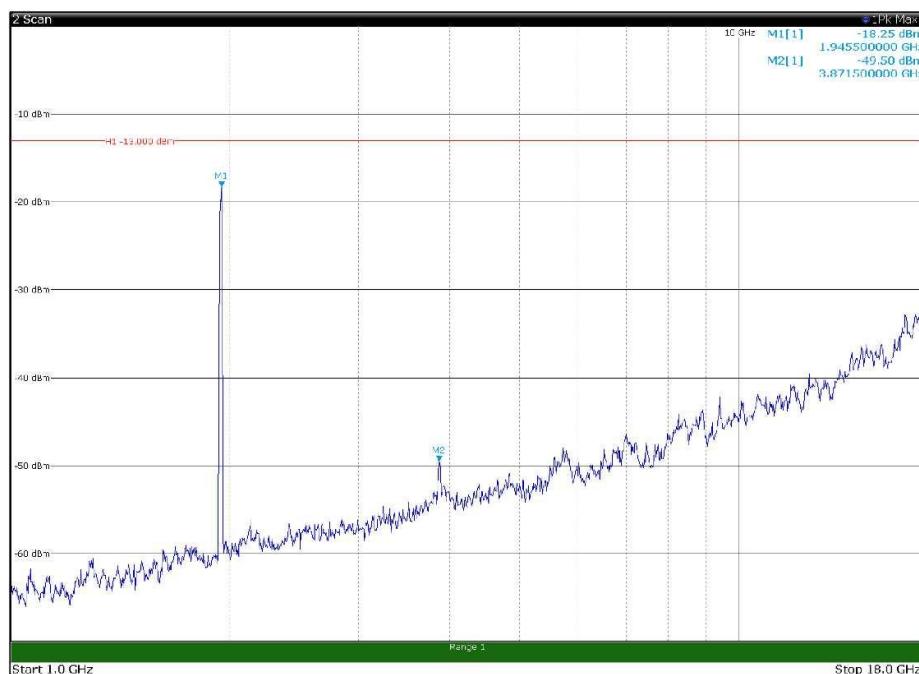
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



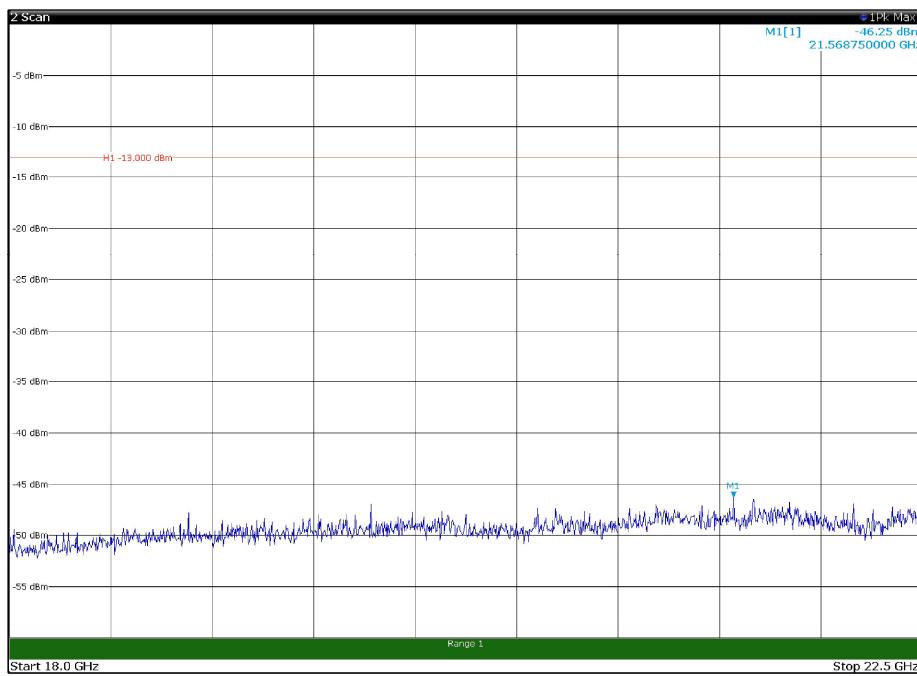
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



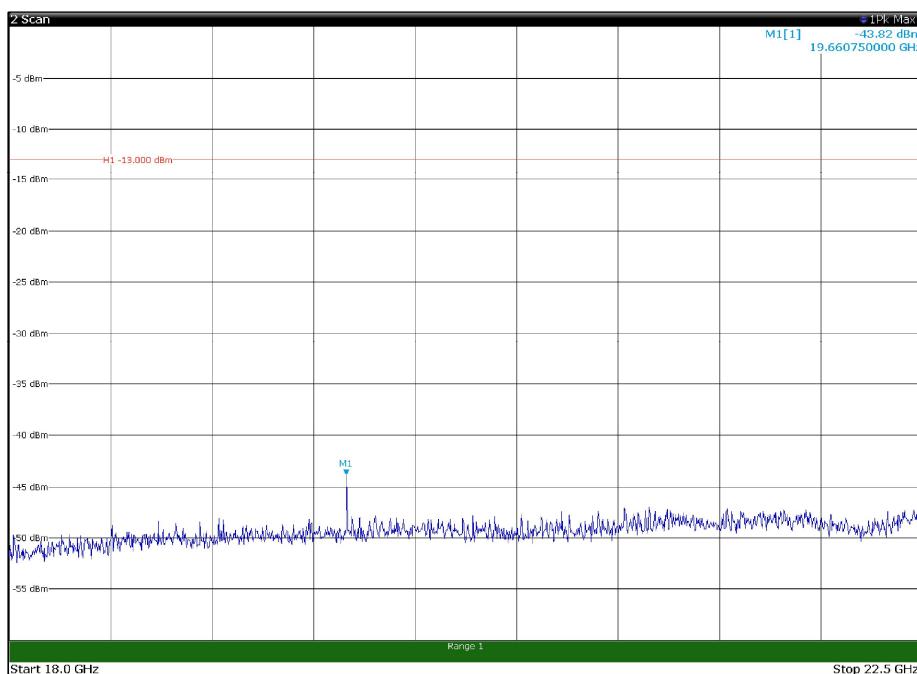
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



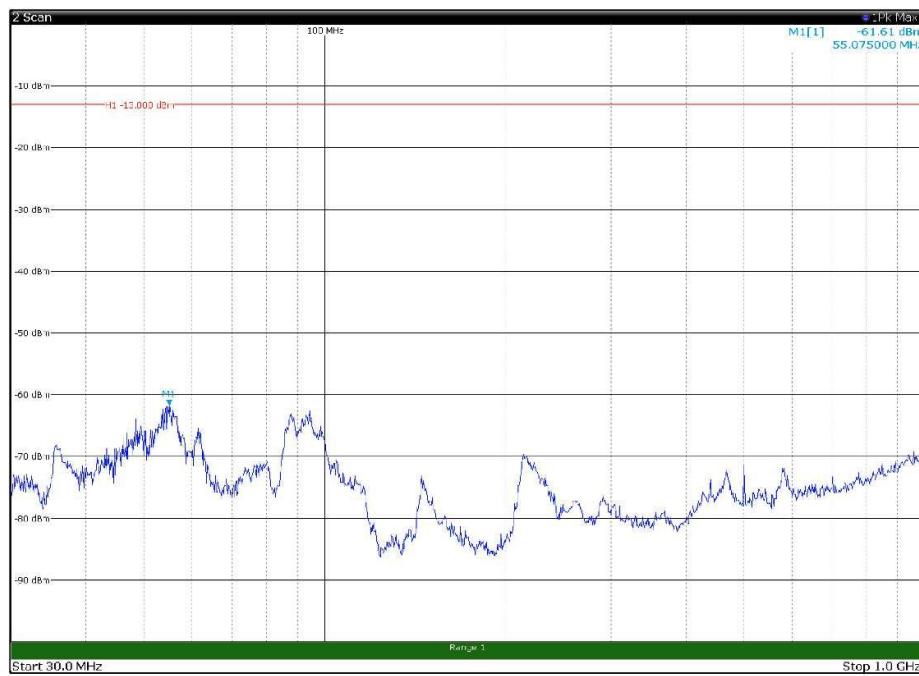
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



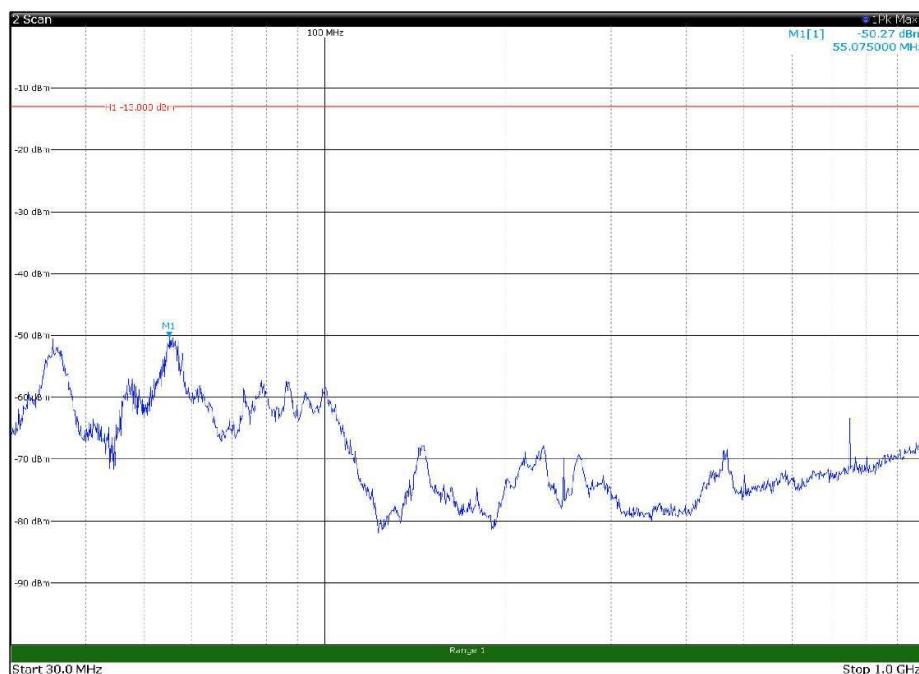
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



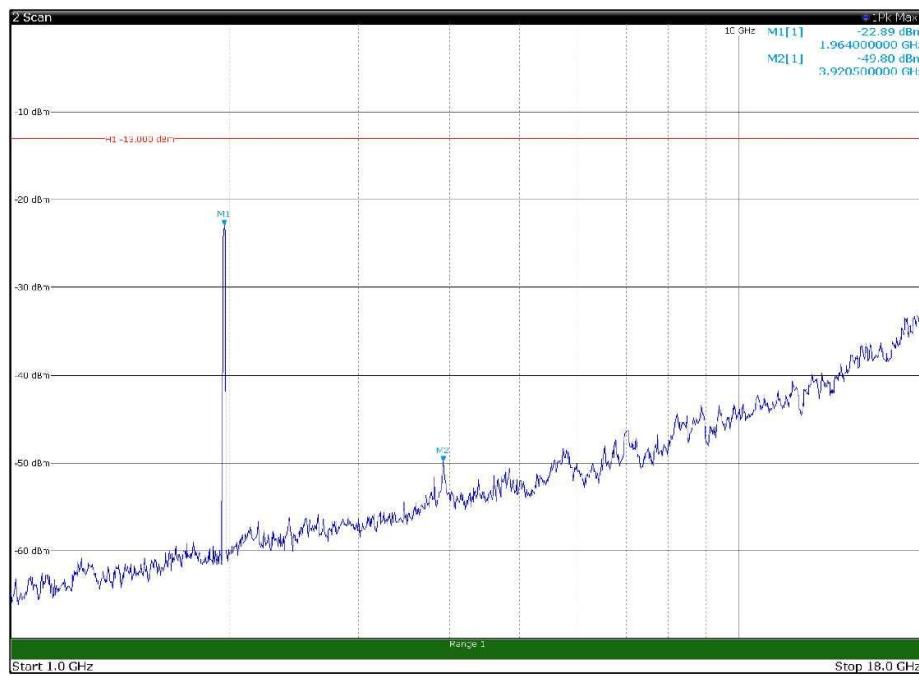
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



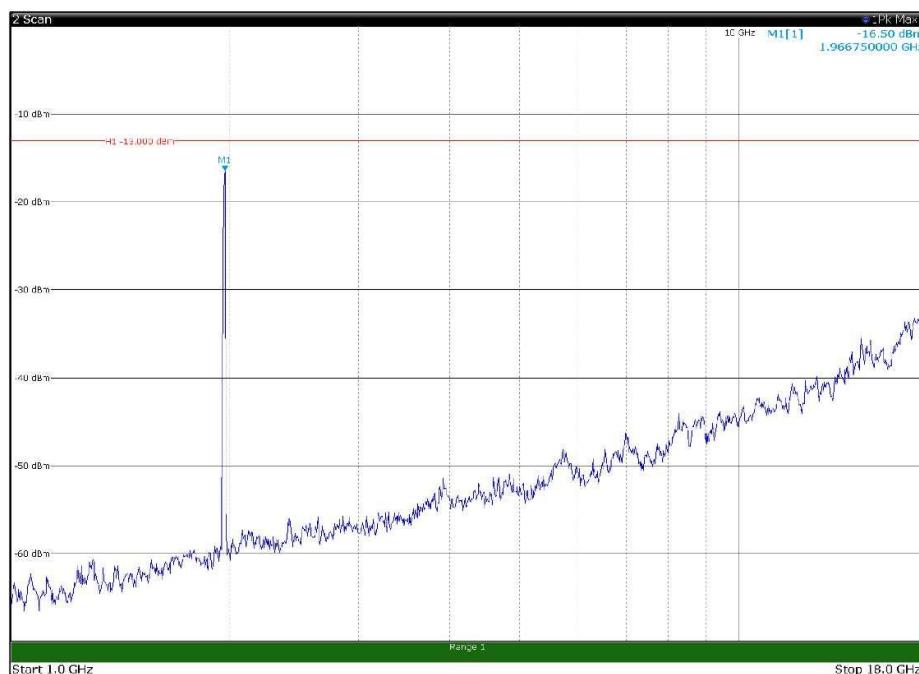
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



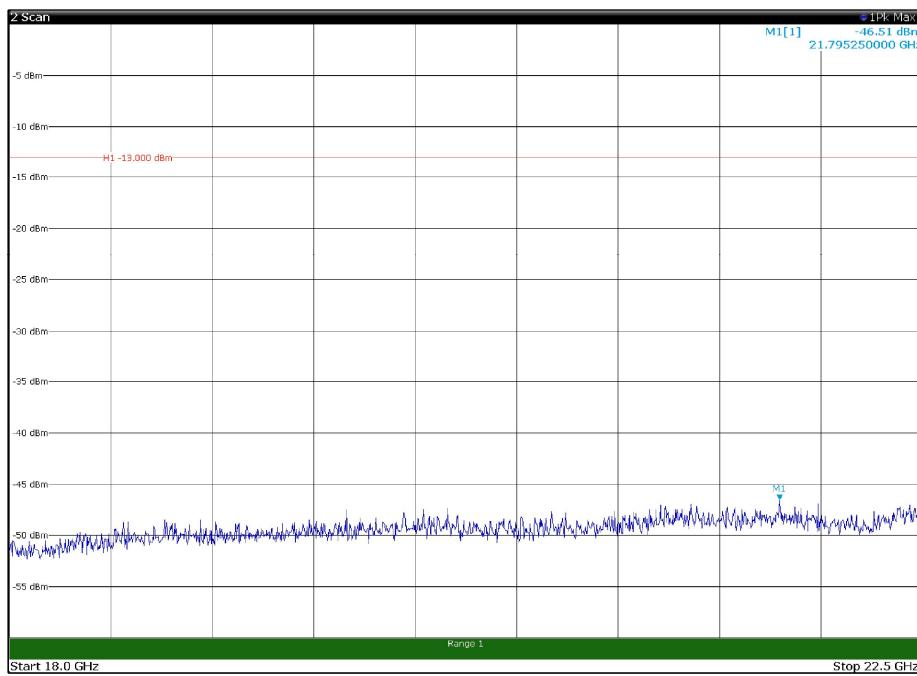
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



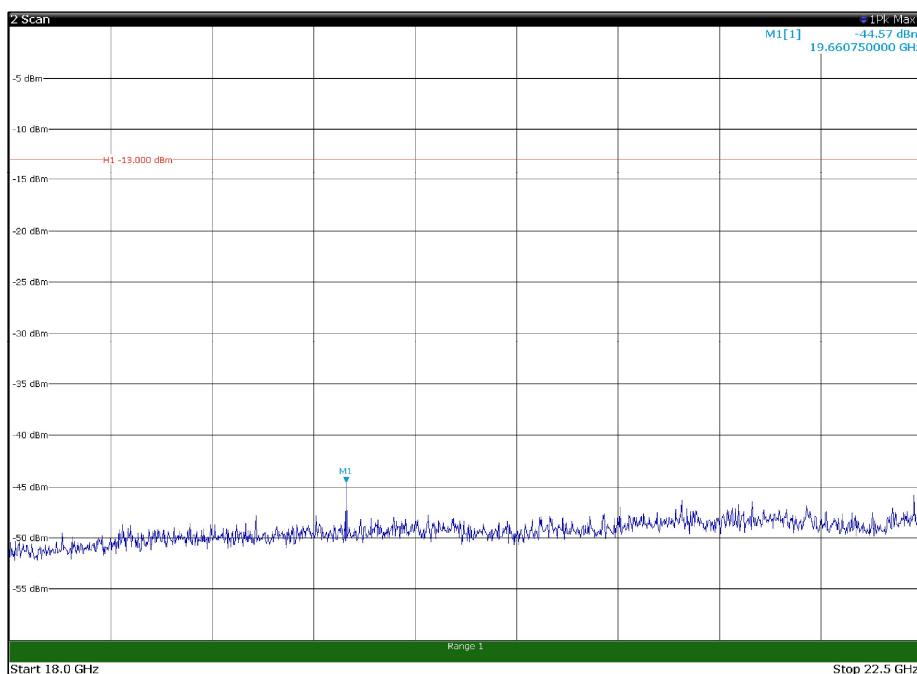
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



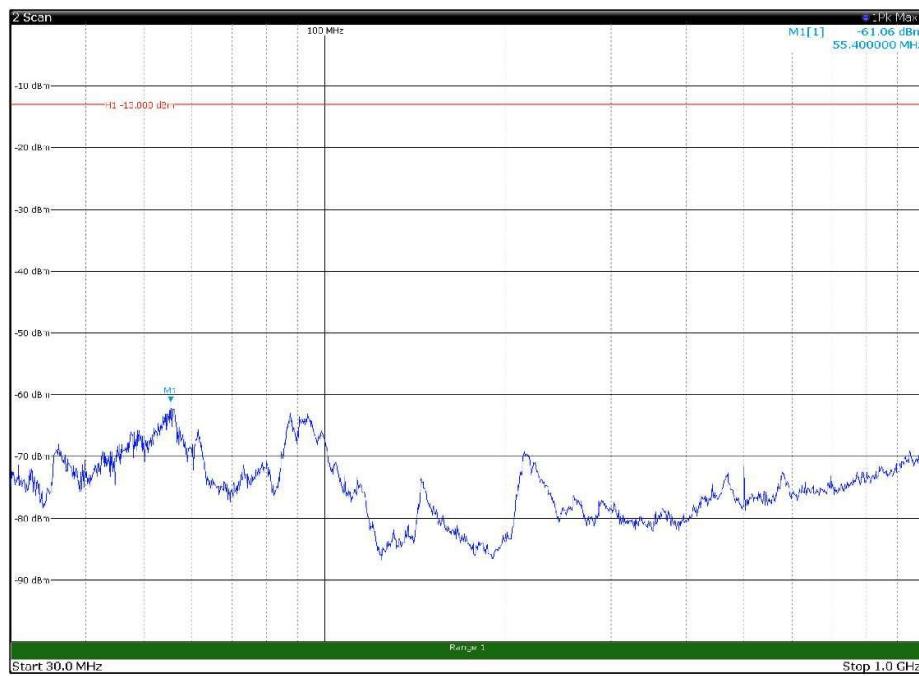
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



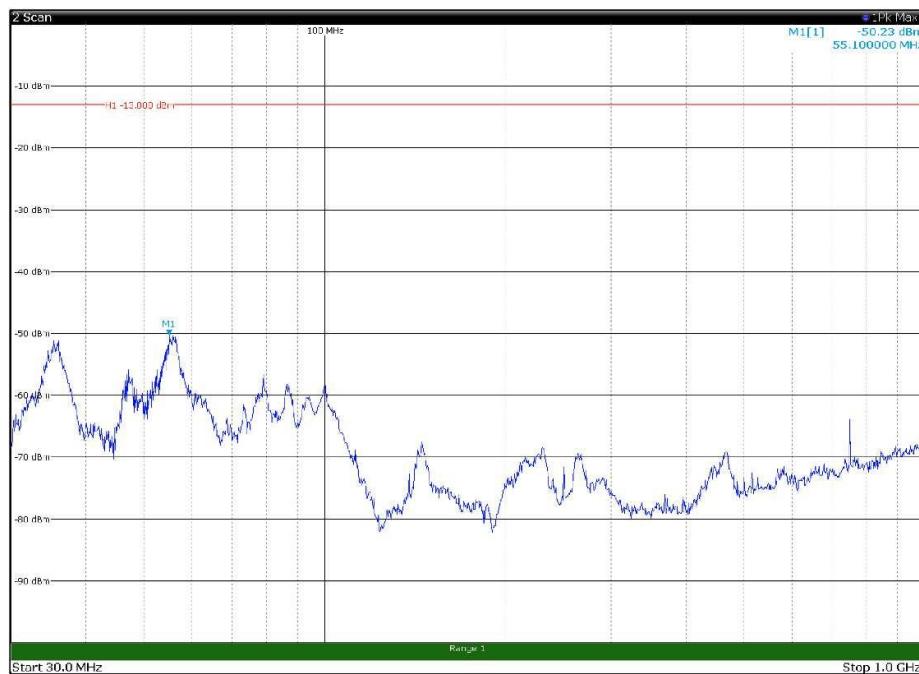
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



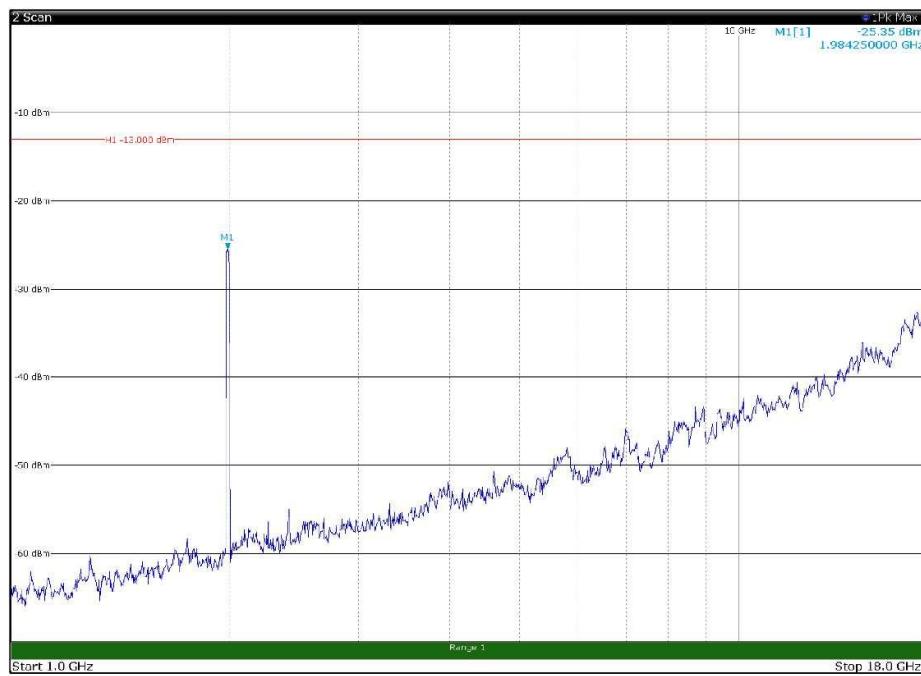
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



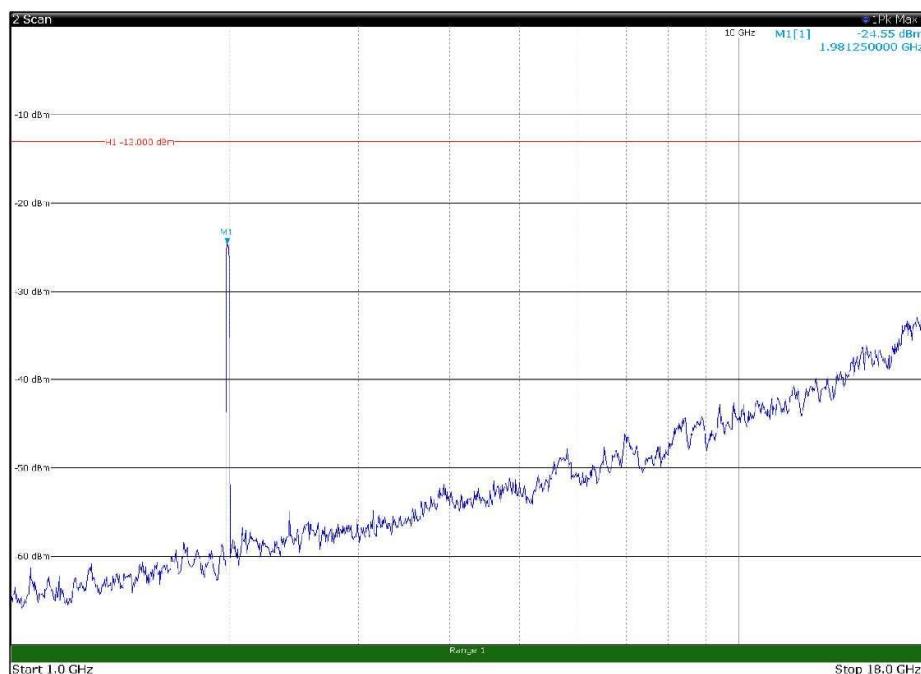
Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



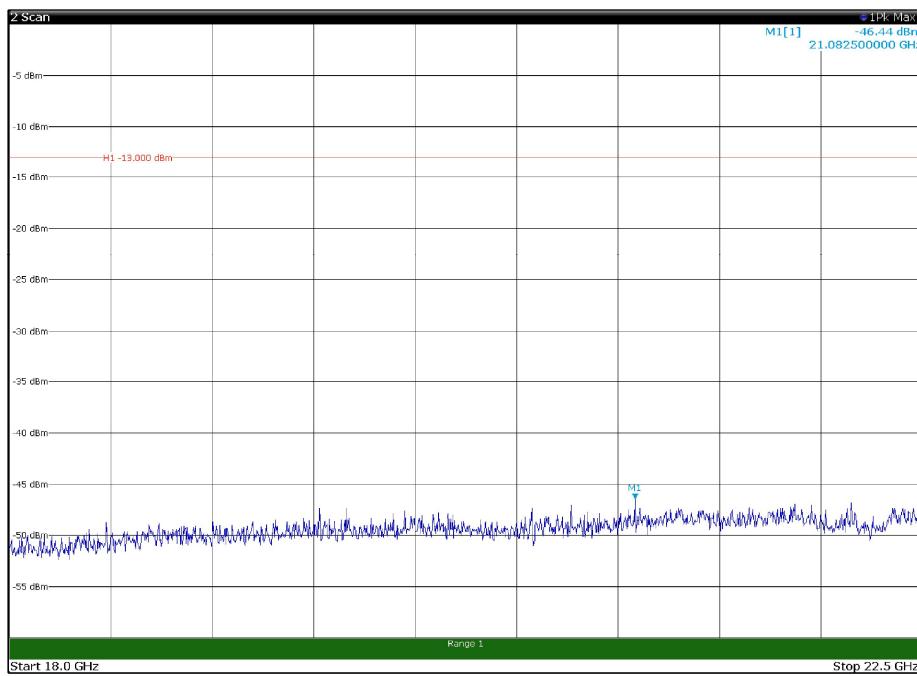
Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



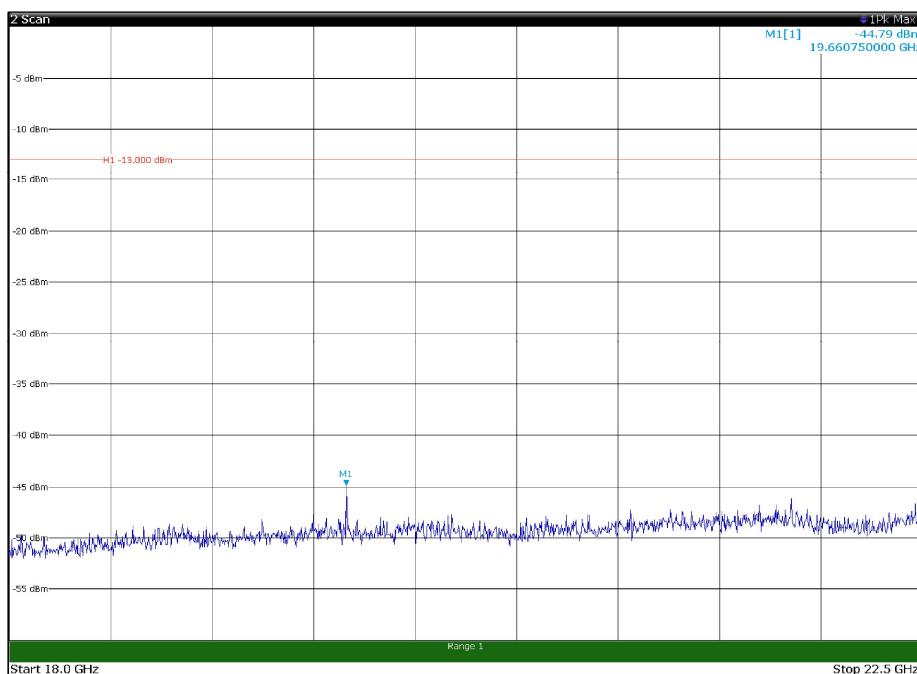
Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



## Clause 24.235 Frequency stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test date: 10/21/2019 to 12/13/2019

Test results: Pass

### Special notes

Tests are performed at 85% (40.8Vdc) and 115% (55.2Vdc) of the primary supply voltage and the same result was found.

### Test data



## RF PORT 1

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-1.347	Hz
BOTTOM	LTE 5 MHz	16QAM	583	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.038	Hz
BOTTOM	LTE 5 MHz	256QAM	-1.185	Hz
MIDDLE	LTE 5 MHz	QPSK	546	mHz
MIDDLE	LTE 5 MHz	16QAM	-1.16	Hz
MIDDLE	LTE 5 MHz	64QAM	617	mHz
MIDDLE	LTE 5 MHz	256QAM	-1.158	Hz
TOP	LTE 5 MHz	QPSK	-491	mHz
TOP	LTE 5 MHz	16QAM	-927	mHz
TOP	LTE 5 MHz	64QAM	550	mHz
TOP	LTE 5 MHz	256QAM	312	mHz
BOTTOM	LTE 10 MHz	QPSK	678	mHz
BOTTOM	LTE 10 MHz	16QAM	-369	mHz
BOTTOM	LTE 10 MHz	64QAM	1.121	Hz
BOTTOM	LTE 10 MHz	256QAM	83	mHz
MIDDLE	LTE 10 MHz	QPSK	-777	mHz
MIDDLE	LTE 10 MHz	16QAM	485	mHz
MIDDLE	LTE 10 MHz	64QAM	1.328	Hz
MIDDLE	LTE 10 MHz	256QAM	759	mHz
TOP	LTE 10 MHz	QPSK	1.162	Hz
TOP	LTE 10 MHz	16QAM	-1.051	Hz
TOP	LTE 10 MHz	64QAM	1.235	Hz
TOP	LTE 10 MHz	256QAM	-240	mHz
BOTTOM	LTE 15 MHz	QPSK	-486	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.296	Hz
BOTTOM	LTE 15 MHz	64QAM	1.275	Hz
BOTTOM	LTE 15 MHz	256QAM	52	mHz
MIDDLE	LTE 15 MHz	QPSK	-82	mHz
MIDDLE	LTE 15 MHz	16QAM	490	mHz
MIDDLE	LTE 15 MHz	64QAM	410	mHz
MIDDLE	LTE 15 MHz	256QAM	-621	mHz
TOP	LTE 15 MHz	QPSK	-1.107	Hz
TOP	LTE 15 MHz	16QAM	617	mHz
TOP	LTE 15 MHz	64QAM	603	mHz
TOP	LTE 15 MHz	256QAM	447	mHz
BOTTOM	LTE 20 MHz	QPSK	-353	mHz
BOTTOM	LTE 20 MHz	16QAM	-119	mHz
BOTTOM	LTE 20 MHz	64QAM	151	mHz
BOTTOM	LTE 20 MHz	256QAM	-59	mHz
MIDDLE	LTE 20 MHz	QPSK	159	mHz
MIDDLE	LTE 20 MHz	16QAM	-698	mHz
MIDDLE	LTE 20 MHz	64QAM	-326	mHz
MIDDLE	LTE 20 MHz	256QAM	1.408	Hz
TOP	LTE 20 MHz	QPSK	-211	mHz
TOP	LTE 20 MHz	16QAM	1.083	Hz
TOP	LTE 20 MHz	64QAM	-126	mHz
TOP	LTE 20 MHz	256QAM	-1.269	Hz



Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.329	Hz
BOTTOM	LTE 5 MHz	16QAM	986	mHz
BOTTOM	LTE 5 MHz	64QAM	895	mHz
BOTTOM	LTE 5 MHz	256QAM	875	mHz
MIDDLE	LTE 5 MHz	QPSK	-323	mHz
MIDDLE	LTE 5 MHz	16QAM	-103	mHz
MIDDLE	LTE 5 MHz	64QAM	-659	mHz
MIDDLE	LTE 5 MHz	256QAM	-250	mHz
TOP	LTE 5 MHz	QPSK	-1.202	Hz
TOP	LTE 5 MHz	16QAM	527	mHz
TOP	LTE 5 MHz	64QAM	-1.291	Hz
TOP	LTE 5 MHz	256QAM	-867	mHz
BOTTOM	LTE 10 MHz	QPSK	-311	mHz
BOTTOM	LTE 10 MHz	16QAM	985	mHz
BOTTOM	LTE 10 MHz	64QAM	-413	mHz
BOTTOM	LTE 10 MHz	256QAM	616	mHz
MIDDLE	LTE 10 MHz	QPSK	749	mHz
MIDDLE	LTE 10 MHz	16QAM	-897	mHz
MIDDLE	LTE 10 MHz	64QAM	-1.053	Hz
MIDDLE	LTE 10 MHz	256QAM	1.405	Hz
TOP	LTE 10 MHz	QPSK	-167	mHz
TOP	LTE 10 MHz	16QAM	1.106	Hz
TOP	LTE 10 MHz	64QAM	1.327	Hz
TOP	LTE 10 MHz	256QAM	637	mHz
BOTTOM	LTE 15 MHz	QPSK	-71	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.168	Hz
BOTTOM	LTE 15 MHz	64QAM	1.065	Hz
BOTTOM	LTE 15 MHz	256QAM	329	mHz
MIDDLE	LTE 15 MHz	QPSK	1.181	Hz
MIDDLE	LTE 15 MHz	16QAM	-1.179	Hz
MIDDLE	LTE 15 MHz	64QAM	966	mHz
MIDDLE	LTE 15 MHz	256QAM	1.125	Hz
TOP	LTE 15 MHz	QPSK	-801	mHz
TOP	LTE 15 MHz	16QAM	1.306	Hz
TOP	LTE 15 MHz	64QAM	360	mHz
TOP	LTE 15 MHz	256QAM	-1.404	Hz
BOTTOM	LTE 20 MHz	QPSK	-1.343	Hz
BOTTOM	LTE 20 MHz	16QAM	48	mHz
BOTTOM	LTE 20 MHz	64QAM	-198	mHz
BOTTOM	LTE 20 MHz	256QAM	-453	mHz
MIDDLE	LTE 20 MHz	QPSK	-9	mHz
MIDDLE	LTE 20 MHz	16QAM	-658	mHz
MIDDLE	LTE 20 MHz	64QAM	1.278	Hz
MIDDLE	LTE 20 MHz	256QAM	854	mHz
TOP	LTE 20 MHz	QPSK	-82	mHz
TOP	LTE 20 MHz	16QAM	-1.379	Hz
TOP	LTE 20 MHz	64QAM	1.146	Hz
TOP	LTE 20 MHz	256QAM	992	mHz



Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	868	mHz
BOTTOM	LTE 5 MHz	16QAM	-873	mHz
BOTTOM	LTE 5 MHz	64QAM	-565	mHz
BOTTOM	LTE 5 MHz	256QAM	-692	mHz
MIDDLE	LTE 5 MHz	QPSK	769.66	mHz
MIDDLE	LTE 5 MHz	16QAM	700.47	mHz
MIDDLE	LTE 5 MHz	64QAM	-556.72	mHz
MIDDLE	LTE 5 MHz	256QAM	792.07	mHz
TOP	LTE 5 MHz	QPSK	-754	mHz
TOP	LTE 5 MHz	16QAM	658	mHz
TOP	LTE 5 MHz	64QAM	-387	mHz
TOP	LTE 5 MHz	256QAM	667	mHz
BOTTOM	LTE 10 MHz	QPSK	794	mHz
BOTTOM	LTE 10 MHz	16QAM	-961	mHz
BOTTOM	LTE 10 MHz	64QAM	615	mHz
BOTTOM	LTE 10 MHz	256QAM	-931	mHz
MIDDLE	LTE 10 MHz	QPSK	1.1216	Hz
MIDDLE	LTE 10 MHz	16QAM	1.182	Hz
MIDDLE	LTE 10 MHz	64QAM	552.09	mHz
MIDDLE	LTE 10 MHz	256QAM	-273.32	mHz
TOP	LTE 10 MHz	QPSK	-204	mHz
TOP	LTE 10 MHz	16QAM	-1.287	mHz
TOP	LTE 10 MHz	64QAM	1.292	mHz
TOP	LTE 10 MHz	256QAM	461	mHz
BOTTOM	LTE 15 MHz	QPSK	-24	mHz
BOTTOM	LTE 15 MHz	16QAM	1.36	mHz
BOTTOM	LTE 15 MHz	64QAM	839	mHz
BOTTOM	LTE 15 MHz	256QAM	-309	mHz
MIDDLE	LTE 15 MHz	QPSK	-765.7	mHz
MIDDLE	LTE 15 MHz	16QAM	1.748	Hz
MIDDLE	LTE 15 MHz	64QAM	1.1977	Hz
MIDDLE	LTE 15 MHz	256QAM	1.9976	Hz
TOP	LTE 15 MHz	QPSK	-297	mHz
TOP	LTE 15 MHz	16QAM	-849	mHz
TOP	LTE 15 MHz	64QAM	1.125	mHz
TOP	LTE 15 MHz	256QAM	410	mHz
BOTTOM	LTE 20 MHz	QPSK	-1.085	mHz
BOTTOM	LTE 20 MHz	16QAM	-424	mHz
BOTTOM	LTE 20 MHz	64QAM	-854	mHz
BOTTOM	LTE 20 MHz	256QAM	-366	mHz
MIDDLE	LTE 20 MHz	QPSK	433.18	mHz
MIDDLE	LTE 20 MHz	16QAM	-826.62	mHz
MIDDLE	LTE 20 MHz	64QAM	698.62	mHz
MIDDLE	LTE 20 MHz	256QAM	1.0012	Hz
TOP	LTE 20 MHz	QPSK	-593	mHz
TOP	LTE 20 MHz	16QAM	477	mHz
TOP	LTE 20 MHz	64QAM	543	mHz
TOP	LTE 20 MHz	256QAM	137	mHz



Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	554	mHz
BOTTOM	LTE 5 MHz	16QAM	-489	mHz
BOTTOM	LTE 5 MHz	64QAM	-468	mHz
BOTTOM	LTE 5 MHz	256QAM	-24	mHz
MIDDLE	LTE 5 MHz	QPSK	1.2314	Hz
MIDDLE	LTE 5 MHz	16QAM	-450.61	mHz
MIDDLE	LTE 5 MHz	64QAM	627.65	mHz
MIDDLE	LTE 5 MHz	256QAM	570.99	mHz
TOP	LTE 5 MHz	QPSK	957	mHz
TOP	LTE 5 MHz	16QAM	410	mHz
TOP	LTE 5 MHz	64QAM	-596	mHz
TOP	LTE 5 MHz	256QAM	-1.234	mHz
BOTTOM	LTE 10 MHz	QPSK	-1.456	mHz
BOTTOM	LTE 10 MHz	16QAM	-564	mHz
BOTTOM	LTE 10 MHz	64QAM	-855	mHz
BOTTOM	LTE 10 MHz	256QAM	328	mHz
MIDDLE	LTE 10 MHz	QPSK	958.87	mHz
MIDDLE	LTE 10 MHz	16QAM	375.92	mHz
MIDDLE	LTE 10 MHz	64QAM	-839.46	mHz
MIDDLE	LTE 10 MHz	256QAM	-356.79	mHz
TOP	LTE 10 MHz	QPSK	1.361	mHz
TOP	LTE 10 MHz	16QAM	-492	mHz
TOP	LTE 10 MHz	64QAM	365	mHz
TOP	LTE 10 MHz	256QAM	1.17	mHz
BOTTOM	LTE 15 MHz	QPSK	422	mHz
BOTTOM	LTE 15 MHz	16QAM	-418	mHz
BOTTOM	LTE 15 MHz	64QAM	189	mHz
BOTTOM	LTE 15 MHz	256QAM	1.319	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.4019	Hz
MIDDLE	LTE 15 MHz	16QAM	218.42	mHz
MIDDLE	LTE 15 MHz	64QAM	1.016	Hz
MIDDLE	LTE 15 MHz	256QAM	937.23	mHz
TOP	LTE 15 MHz	QPSK	316	mHz
TOP	LTE 15 MHz	16QAM	-341	mHz
TOP	LTE 15 MHz	64QAM	72	mHz
TOP	LTE 15 MHz	256QAM	1.429	mHz
BOTTOM	LTE 20 MHz	QPSK	1.188	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.358	mHz
BOTTOM	LTE 20 MHz	64QAM	-1.471	mHz
BOTTOM	LTE 20 MHz	256QAM	-442	mHz
MIDDLE	LTE 20 MHz	QPSK	119.33	mHz
MIDDLE	LTE 20 MHz	16QAM	959.38	mHz
MIDDLE	LTE 20 MHz	64QAM	869.62	mHz
MIDDLE	LTE 20 MHz	256QAM	-582.35	mHz
TOP	LTE 20 MHz	QPSK	-1.494	mHz
TOP	LTE 20 MHz	16QAM	871	mHz
TOP	LTE 20 MHz	64QAM	162	mHz
TOP	LTE 20 MHz	256QAM	-271	mHz



Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	54	mHz
BOTTOM	LTE 5 MHz	16QAM	1.412	Hz
BOTTOM	LTE 5 MHz	64QAM	840	mHz
BOTTOM	LTE 5 MHz	256QAM	-531	mHz
MIDDLE	LTE 5 MHz	QPSK	1.473	Hz
MIDDLE	LTE 5 MHz	16QAM	-610	mHz
MIDDLE	LTE 5 MHz	64QAM	28	mHz
MIDDLE	LTE 5 MHz	256QAM	1.196	Hz
TOP	LTE 5 MHz	QPSK	1.201	Hz
TOP	LTE 5 MHz	16QAM	1.325	Hz
TOP	LTE 5 MHz	64QAM	-1.444	Hz
TOP	LTE 5 MHz	256QAM	1.134	Hz
BOTTOM	LTE 10 MHz	QPSK	645	mHz
BOTTOM	LTE 10 MHz	16QAM	745	mHz
BOTTOM	LTE 10 MHz	64QAM	-54	mHz
BOTTOM	LTE 10 MHz	256QAM	-703	mHz
MIDDLE	LTE 10 MHz	QPSK	1.3	Hz
MIDDLE	LTE 10 MHz	16QAM	822	mHz
MIDDLE	LTE 10 MHz	64QAM	1.353	Hz
MIDDLE	LTE 10 MHz	256QAM	-780	mHz
TOP	LTE 10 MHz	QPSK	-1.187	Hz
TOP	LTE 10 MHz	16QAM	895	mHz
TOP	LTE 10 MHz	64QAM	563	mHz
TOP	LTE 10 MHz	256QAM	1.373	Hz
BOTTOM	LTE 15 MHz	QPSK	-1.336	Hz
BOTTOM	LTE 15 MHz	16QAM	-397	mHz
BOTTOM	LTE 15 MHz	64QAM	151	mHz
BOTTOM	LTE 15 MHz	256QAM	262	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.023	Hz
MIDDLE	LTE 15 MHz	16QAM	971	mHz
MIDDLE	LTE 15 MHz	64QAM	-360	mHz
MIDDLE	LTE 15 MHz	256QAM	598	mHz
TOP	LTE 15 MHz	QPSK	100	mHz
TOP	LTE 15 MHz	16QAM	-1.052	Hz
TOP	LTE 15 MHz	64QAM	937	mHz
TOP	LTE 15 MHz	256QAM	1.261	Hz
BOTTOM	LTE 20 MHz	QPSK	220	mHz
BOTTOM	LTE 20 MHz	16QAM	408	mHz
BOTTOM	LTE 20 MHz	64QAM	806	mHz
BOTTOM	LTE 20 MHz	256QAM	989	mHz
MIDDLE	LTE 20 MHz	QPSK	-69	mHz
MIDDLE	LTE 20 MHz	16QAM	286	mHz
MIDDLE	LTE 20 MHz	64QAM	-55	mHz
MIDDLE	LTE 20 MHz	256QAM	1.348	Hz
TOP	LTE 20 MHz	QPSK	972	mHz
TOP	LTE 20 MHz	16QAM	-377	mHz
TOP	LTE 20 MHz	64QAM	905	mHz
TOP	LTE 20 MHz	256QAM	-168	mHz



Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	250.84	mHz
BOTTOM	LTE 5 MHz	16QAM	-937.17	mHz
BOTTOM	LTE 5 MHz	64QAM	670.82	mHz
BOTTOM	LTE 5 MHz	256QAM	-966.83	mHz
MIDDLE	LTE 5 MHz	QPSK	368.91	mHz
MIDDLE	LTE 5 MHz	16QAM	-139.38	mHz
MIDDLE	LTE 5 MHz	64QAM	851.77	mHz
MIDDLE	LTE 5 MHz	256QAM	-405.89	mHz
TOP	LTE 5 MHz	QPSK	59.68	mHz
TOP	LTE 5 MHz	16QAM	-454.60	mHz
TOP	LTE 5 MHz	64QAM	837.77	mHz
TOP	LTE 5 MHz	256QAM	82.39	mHz
BOTTOM	LTE 10 MHz	QPSK	732.53	mHz
BOTTOM	LTE 10 MHz	16QAM	79.71	mHz
BOTTOM	LTE 10 MHz	64QAM	-560.28	mHz
BOTTOM	LTE 10 MHz	256QAM	638.94	mHz
MIDDLE	LTE 10 MHz	QPSK	771.91	mHz
MIDDLE	LTE 10 MHz	16QAM	-379.38	mHz
MIDDLE	LTE 10 MHz	64QAM	-413.34	mHz
MIDDLE	LTE 10 MHz	256QAM	526.70	mHz
TOP	LTE 10 MHz	QPSK	618.31	mHz
TOP	LTE 10 MHz	16QAM	382.88	mHz
TOP	LTE 10 MHz	64QAM	748.45	mHz
TOP	LTE 10 MHz	256QAM	445.85	mHz
BOTTOM	LTE 15 MHz	QPSK	814.93	mHz
BOTTOM	LTE 15 MHz	16QAM	378.58	mHz
BOTTOM	LTE 15 MHz	64QAM	411.82	mHz
BOTTOM	LTE 15 MHz	256QAM	311.87	mHz
MIDDLE	LTE 15 MHz	QPSK	-477.41	mHz
MIDDLE	LTE 15 MHz	16QAM	348.53	mHz
MIDDLE	LTE 15 MHz	64QAM	-792.60	mHz
MIDDLE	LTE 15 MHz	256QAM	468.04	mHz
TOP	LTE 15 MHz	QPSK	394.27	mHz
TOP	LTE 15 MHz	16QAM	514.03	mHz
TOP	LTE 15 MHz	64QAM	-763.72	mHz
TOP	LTE 15 MHz	256QAM	689.95	mHz
BOTTOM	LTE 20 MHz	QPSK	-683.79	mHz
BOTTOM	LTE 20 MHz	16QAM	142.60	mHz
BOTTOM	LTE 20 MHz	64QAM	-180.45	mHz
BOTTOM	LTE 20 MHz	256QAM	-537.20	mHz
MIDDLE	LTE 20 MHz	QPSK	616.96	mHz
MIDDLE	LTE 20 MHz	16QAM	828.25	mHz
MIDDLE	LTE 20 MHz	64QAM	-517.82	mHz
MIDDLE	LTE 20 MHz	256QAM	62.55	mHz
TOP	LTE 20 MHz	QPSK	429.22	mHz
TOP	LTE 20 MHz	16QAM	-699.35	mHz
TOP	LTE 20 MHz	64QAM	655.98	mHz
TOP	LTE 20 MHz	256QAM	-2.53	Hz



Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-0.661	mHz
BOTTOM	LTE 5 MHz	16QAM	-0.523	mHz
BOTTOM	LTE 5 MHz	64QAM	0.857	mHz
BOTTOM	LTE 5 MHz	256QAM	-0.775	mHz
MIDDLE	LTE 5 MHz	QPSK	828.120	mHz
MIDDLE	LTE 5 MHz	16QAM	652.510	mHz
MIDDLE	LTE 5 MHz	64QAM	-722.890	mHz
MIDDLE	LTE 5 MHz	256QAM	-288.030	mHz
TOP	LTE 5 MHz	QPSK	1.102	Hz
TOP	LTE 5 MHz	16QAM	1.28	Hz
TOP	LTE 5 MHz	64QAM	0.872	mHz
TOP	LTE 5 MHz	256QAM	-0.931	mHz
BOTTOM	LTE 10 MHz	QPSK	0.088	mHz
BOTTOM	LTE 10 MHz	16QAM	-1.414	Hz
BOTTOM	LTE 10 MHz	64QAM	1.046	Hz
BOTTOM	LTE 10 MHz	256QAM	1.396	Hz
MIDDLE	LTE 10 MHz	QPSK	-888.530	mHz
MIDDLE	LTE 10 MHz	16QAM	-596.110	mHz
MIDDLE	LTE 10 MHz	64QAM	-442.050	mHz
MIDDLE	LTE 10 MHz	256QAM	-124.070	mHz
TOP	LTE 10 MHz	QPSK	1.006	Hz
TOP	LTE 10 MHz	16QAM	0.442	mHz
TOP	LTE 10 MHz	64QAM	1.043	Hz
TOP	LTE 10 MHz	256QAM	-1.269	Hz
BOTTOM	LTE 15 MHz	QPSK	1.232	Hz
BOTTOM	LTE 15 MHz	16QAM	1.152	Hz
BOTTOM	LTE 15 MHz	64QAM	-0.807	mHz
BOTTOM	LTE 15 MHz	256QAM	-0.021	mHz
MIDDLE	LTE 15 MHz	QPSK	83.712	mHz
MIDDLE	LTE 15 MHz	16QAM	-245.730	mHz
MIDDLE	LTE 15 MHz	64QAM	-293.500	mHz
MIDDLE	LTE 15 MHz	256QAM	-692.810	mHz
TOP	LTE 15 MHz	QPSK	-1.341	Hz
TOP	LTE 15 MHz	16QAM	1.342	Hz
TOP	LTE 15 MHz	64QAM	-0.143	mHz
TOP	LTE 15 MHz	256QAM	-0.901	mHz
BOTTOM	LTE 20 MHz	QPSK	-1.338	Hz
BOTTOM	LTE 20 MHz	16QAM	1.209	Hz
BOTTOM	LTE 20 MHz	64QAM	1.166	Hz
BOTTOM	LTE 20 MHz	256QAM	-0.342	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.057	Hz
MIDDLE	LTE 20 MHz	16QAM	-352.580	mHz
MIDDLE	LTE 20 MHz	64QAM	216.760	mHz
MIDDLE	LTE 20 MHz	256QAM	120.760	mHz
TOP	LTE 20 MHz	QPSK	-0.734	mHz
TOP	LTE 20 MHz	16QAM	-0.38	mHz
TOP	LTE 20 MHz	64QAM	-0.712	mHz
TOP	LTE 20 MHz	256QAM	-1.242	Hz



Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-30.086	mHz
BOTTOM	LTE 5 MHz	16QAM	141.02	mHz
BOTTOM	LTE 5 MHz	64QAM	4.7585	Hz
BOTTOM	LTE 5 MHz	256QAM	716.3	mHz
MIDDLE	LTE 5 MHz	QPSK	-134.81	mHz
MIDDLE	LTE 5 MHz	16QAM	-855.97	mHz
MIDDLE	LTE 5 MHz	64QAM	-550.69	mHz
MIDDLE	LTE 5 MHz	256QAM	-523.3	mHz
TOP	LTE 5 MHz	QPSK	-1.0367	Hz
TOP	LTE 5 MHz	16QAM	-454.03	mHz
TOP	LTE 5 MHz	64QAM	541.16	mHz
TOP	LTE 5 MHz	256QAM	-35.109	mHz
BOTTOM	LTE 10 MHz	QPSK	521.9	mHz
BOTTOM	LTE 10 MHz	16QAM	795.47	mHz
BOTTOM	LTE 10 MHz	64QAM	-53.495	mHz
BOTTOM	LTE 10 MHz	256QAM	554.66	mHz
MIDDLE	LTE 10 MHz	QPSK	-197.51	mHz
MIDDLE	LTE 10 MHz	16QAM	739.26	mHz
MIDDLE	LTE 10 MHz	64QAM	701.52	mHz
MIDDLE	LTE 10 MHz	256QAM	-918.66	mHz
TOP	LTE 10 MHz	QPSK	536.5	mHz
TOP	LTE 10 MHz	16QAM	596.42	mHz
TOP	LTE 10 MHz	64QAM	99.56	mHz
TOP	LTE 10 MHz	256QAM	-166.18	mHz
BOTTOM	LTE 15 MHz	QPSK	250	mHz
BOTTOM	LTE 15 MHz	16QAM	-840.12	mHz
BOTTOM	LTE 15 MHz	64QAM	861.75	mHz
BOTTOM	LTE 15 MHz	256QAM	-616.67	mHz
MIDDLE	LTE 15 MHz	QPSK	17.029	mHz
MIDDLE	LTE 15 MHz	16QAM	225.23	mHz
MIDDLE	LTE 15 MHz	64QAM	686.08	mHz
MIDDLE	LTE 15 MHz	256QAM	-385.74	mHz
TOP	LTE 15 MHz	QPSK	-452.87	mHz
TOP	LTE 15 MHz	16QAM	715.18	mHz
TOP	LTE 15 MHz	64QAM	-22.096	mHz
TOP	LTE 15 MHz	256QAM	-863.19	mHz
BOTTOM	LTE 20 MHz	QPSK	1.5092	Hz
BOTTOM	LTE 20 MHz	16QAM	1.2613	Hz
BOTTOM	LTE 20 MHz	64QAM	-91.384	mHz
BOTTOM	LTE 20 MHz	256QAM	393.37	mHz
MIDDLE	LTE 20 MHz	QPSK	414.7	mHz
MIDDLE	LTE 20 MHz	16QAM	-122.97	mHz
MIDDLE	LTE 20 MHz	64QAM	642.71	mHz
MIDDLE	LTE 20 MHz	256QAM	-494.73	mHz
TOP	LTE 20 MHz	QPSK	473.81	mHz
TOP	LTE 20 MHz	16QAM	606.36	mHz
TOP	LTE 20 MHz	64QAM	-413.55	mHz
TOP	LTE 20 MHz	256QAM	281.17	mHz



Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-619	mHz
BOTTOM	LTE 5 MHz	16QAM	-1.399	Hz
BOTTOM	LTE 5 MHz	64QAM	323	mHz
BOTTOM	LTE 5 MHz	256QAM	58	mHz
MIDDLE	LTE 5 MHz	QPSK	-629	mHz
MIDDLE	LTE 5 MHz	16QAM	-765	mHz
MIDDLE	LTE 5 MHz	64QAM	-593	mHz
MIDDLE	LTE 5 MHz	256QAM	-783	mHz
TOP	LTE 5 MHz	QPSK	1.213	Hz
TOP	LTE 5 MHz	16QAM	-776	mHz
TOP	LTE 5 MHz	64QAM	967	mHz
TOP	LTE 5 MHz	256QAM	-1.318	Hz
BOTTOM	LTE 10 MHz	QPSK	672	mHz
BOTTOM	LTE 10 MHz	16QAM	-868	mHz
BOTTOM	LTE 10 MHz	64QAM	-1.391	Hz
BOTTOM	LTE 10 MHz	256QAM	-265	mHz
MIDDLE	LTE 10 MHz	QPSK	-418	mHz
MIDDLE	LTE 10 MHz	16QAM	358	mHz
MIDDLE	LTE 10 MHz	64QAM	-451	mHz
MIDDLE	LTE 10 MHz	256QAM	-922	mHz
TOP	LTE 10 MHz	QPSK	-1.439	Hz
TOP	LTE 10 MHz	16QAM	1.011	Hz
TOP	LTE 10 MHz	64QAM	770	mHz
TOP	LTE 10 MHz	256QAM	248	mHz
BOTTOM	LTE 15 MHz	QPSK	1.053	Hz
BOTTOM	LTE 15 MHz	16QAM	339	mHz
BOTTOM	LTE 15 MHz	64QAM	181	mHz
BOTTOM	LTE 15 MHz	256QAM	1.096	Hz
MIDDLE	LTE 15 MHz	QPSK	-812	mHz
MIDDLE	LTE 15 MHz	16QAM	-1	mHz
MIDDLE	LTE 15 MHz	64QAM	279	mHz
MIDDLE	LTE 15 MHz	256QAM	-1.314	Hz
TOP	LTE 15 MHz	QPSK	-1.304	Hz
TOP	LTE 15 MHz	16QAM	-20	mHz
TOP	LTE 15 MHz	64QAM	-1.035	Hz
TOP	LTE 15 MHz	256QAM	-1.246	Hz
BOTTOM	LTE 20 MHz	QPSK	377	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.059	Hz
BOTTOM	LTE 20 MHz	64QAM	1.385	Hz
BOTTOM	LTE 20 MHz	256QAM	906	mHz
MIDDLE	LTE 20 MHz	QPSK	-332	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.407	Hz
MIDDLE	LTE 20 MHz	64QAM	1.305	Hz
MIDDLE	LTE 20 MHz	256QAM	-516	mHz
TOP	LTE 20 MHz	QPSK	918	mHz
TOP	LTE 20 MHz	16QAM	-1.024	Hz
TOP	LTE 20 MHz	64QAM	-56	mHz
TOP	LTE 20 MHz	256QAM	378	mHz



## RF PORT 2

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-256	mHz
BOTTOM	LTE 5 MHz	16QAM	-1.428	Hz
BOTTOM	LTE 5 MHz	64QAM	1.216	Hz
BOTTOM	LTE 5 MHz	256QAM	183	mHz
MIDDLE	LTE 5 MHz	QPSK	475	mHz
MIDDLE	LTE 5 MHz	16QAM	126	mHz
MIDDLE	LTE 5 MHz	64QAM	-944	mHz
MIDDLE	LTE 5 MHz	256QAM	-1.077	Hz
TOP	LTE 5 MHz	QPSK	531	mHz
TOP	LTE 5 MHz	16QAM	-916	mHz
TOP	LTE 5 MHz	64QAM	1.211	Hz
TOP	LTE 5 MHz	256QAM	1.231	Hz
BOTTOM	LTE 10 MHz	QPSK	232	mHz
BOTTOM	LTE 10 MHz	16QAM	-1.151	Hz
BOTTOM	LTE 10 MHz	64QAM	-1.073	Hz
BOTTOM	LTE 10 MHz	256QAM	1.129	Hz
MIDDLE	LTE 10 MHz	QPSK	1.058	Hz
MIDDLE	LTE 10 MHz	16QAM	-773	mHz
MIDDLE	LTE 10 MHz	64QAM	804	mHz
MIDDLE	LTE 10 MHz	256QAM	-577	mHz
TOP	LTE 10 MHz	QPSK	1.359	Hz
TOP	LTE 10 MHz	16QAM	699	mHz
TOP	LTE 10 MHz	64QAM	-1.422	Hz
TOP	LTE 10 MHz	256QAM	-1.189	Hz
BOTTOM	LTE 15 MHz	QPSK	-1.174	Hz
BOTTOM	LTE 15 MHz	16QAM	172	mHz
BOTTOM	LTE 15 MHz	64QAM	-1.487	Hz
BOTTOM	LTE 15 MHz	256QAM	1.048	Hz
MIDDLE	LTE 15 MHz	QPSK	780	mHz
MIDDLE	LTE 15 MHz	16QAM	-852	mHz
MIDDLE	LTE 15 MHz	64QAM	-1.46	Hz
MIDDLE	LTE 15 MHz	256QAM	669	mHz
TOP	LTE 15 MHz	QPSK	-1.062	Hz
TOP	LTE 15 MHz	16QAM	-764	mHz
TOP	LTE 15 MHz	64QAM	-903	mHz
TOP	LTE 15 MHz	256QAM	-731	mHz
BOTTOM	LTE 20 MHz	QPSK	1.314	Hz
BOTTOM	LTE 20 MHz	16QAM	250	mHz
BOTTOM	LTE 20 MHz	64QAM	267	mHz
BOTTOM	LTE 20 MHz	256QAM	187	mHz
MIDDLE	LTE 20 MHz	QPSK	579	mHz
MIDDLE	LTE 20 MHz	16QAM	-209	mHz
MIDDLE	LTE 20 MHz	64QAM	1.451	Hz
MIDDLE	LTE 20 MHz	256QAM	1.444	Hz
TOP	LTE 20 MHz	QPSK	296	mHz
TOP	LTE 20 MHz	16QAM	770	mHz
TOP	LTE 20 MHz	64QAM	998	mHz
TOP	LTE 20 MHz	256QAM	-728	mHz



Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-1.041	Hz
BOTTOM	LTE 5 MHz	16QAM	-1.207	Hz
BOTTOM	LTE 5 MHz	64QAM	-309	mHz
BOTTOM	LTE 5 MHz	256QAM	-911	mHz
MIDDLE	LTE 5 MHz	QPSK	-220	mHz
MIDDLE	LTE 5 MHz	16QAM	-1.074	Hz
MIDDLE	LTE 5 MHz	64QAM	-69	mHz
MIDDLE	LTE 5 MHz	256QAM	-527	mHz
TOP	LTE 5 MHz	QPSK	1.105	Hz
TOP	LTE 5 MHz	16QAM	-171	mHz
TOP	LTE 5 MHz	64QAM	99	mHz
TOP	LTE 5 MHz	256QAM	1.306	Hz
BOTTOM	LTE 10 MHz	QPSK	-535	mHz
BOTTOM	LTE 10 MHz	16QAM	472	mHz
BOTTOM	LTE 10 MHz	64QAM	-1.354	Hz
BOTTOM	LTE 10 MHz	256QAM	285	mHz
MIDDLE	LTE 10 MHz	QPSK	-234	mHz
MIDDLE	LTE 10 MHz	16QAM	129	mHz
MIDDLE	LTE 10 MHz	64QAM	629	mHz
MIDDLE	LTE 10 MHz	256QAM	1.088	Hz
TOP	LTE 10 MHz	QPSK	-1.228	Hz
TOP	LTE 10 MHz	16QAM	1.453	Hz
TOP	LTE 10 MHz	64QAM	367	mHz
TOP	LTE 10 MHz	256QAM	-354	mHz
BOTTOM	LTE 15 MHz	QPSK	-1.002	Hz
BOTTOM	LTE 15 MHz	16QAM	-1.343	Hz
BOTTOM	LTE 15 MHz	64QAM	-386	mHz
BOTTOM	LTE 15 MHz	256QAM	-100	mHz
MIDDLE	LTE 15 MHz	QPSK	-669	mHz
MIDDLE	LTE 15 MHz	16QAM	-270	mHz
MIDDLE	LTE 15 MHz	64QAM	83	mHz
MIDDLE	LTE 15 MHz	256QAM	-1.219	Hz
TOP	LTE 15 MHz	QPSK	-925	mHz
TOP	LTE 15 MHz	16QAM	1.092	Hz
TOP	LTE 15 MHz	64QAM	448	mHz
TOP	LTE 15 MHz	256QAM	-1.192	Hz
BOTTOM	LTE 20 MHz	QPSK	-618	mHz
BOTTOM	LTE 20 MHz	16QAM	349	mHz
BOTTOM	LTE 20 MHz	64QAM	-285	mHz
BOTTOM	LTE 20 MHz	256QAM	-1.423	Hz
MIDDLE	LTE 20 MHz	QPSK	-1.014	Hz
MIDDLE	LTE 20 MHz	16QAM	1.38	Hz
MIDDLE	LTE 20 MHz	64QAM	-435	mHz
MIDDLE	LTE 20 MHz	256QAM	-575	mHz
TOP	LTE 20 MHz	QPSK	-822	mHz
TOP	LTE 20 MHz	16QAM	-685	mHz
TOP	LTE 20 MHz	64QAM	-1.143	Hz
TOP	LTE 20 MHz	256QAM	177	mHz



Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-702	mHz
BOTTOM	LTE 5 MHz	16QAM	181	mHz
BOTTOM	LTE 5 MHz	64QAM	341	mHz
BOTTOM	LTE 5 MHz	256QAM	1.244	Hz
MIDDLE	LTE 5 MHz	QPSK	187.09	mHz
MIDDLE	LTE 5 MHz	16QAM	-1.576	Hz
MIDDLE	LTE 5 MHz	64QAM	369.49	mHz
MIDDLE	LTE 5 MHz	256QAM	1.1902	Hz
TOP	LTE 5 MHz	QPSK	-506	mHz
TOP	LTE 5 MHz	16QAM	-643	mHz
TOP	LTE 5 MHz	64QAM	889	mHz
TOP	LTE 5 MHz	256QAM	215	mHz
BOTTOM	LTE 10 MHz	QPSK	-189	mHz
BOTTOM	LTE 10 MHz	16QAM	1.292	Hz
BOTTOM	LTE 10 MHz	64QAM	-1.192	Hz
BOTTOM	LTE 10 MHz	256QAM	-1.161	Hz
MIDDLE	LTE 10 MHz	QPSK	1.6989	Hz
MIDDLE	LTE 10 MHz	16QAM	963.36	mHz
MIDDLE	LTE 10 MHz	64QAM	338.62	mHz
MIDDLE	LTE 10 MHz	256QAM	86.489	mHz
TOP	LTE 10 MHz	QPSK	676	mHz
TOP	LTE 10 MHz	16QAM	530	mHz
TOP	LTE 10 MHz	64QAM	232	mHz
TOP	LTE 10 MHz	256QAM	-273	mHz
BOTTOM	LTE 15 MHz	QPSK	1.252	Hz
BOTTOM	LTE 15 MHz	16QAM	-991	mHz
BOTTOM	LTE 15 MHz	64QAM	-1.37	Hz
BOTTOM	LTE 15 MHz	256QAM	870	mHz
MIDDLE	LTE 15 MHz	QPSK	1.082	Hz
MIDDLE	LTE 15 MHz	16QAM	1.0046	Hz
MIDDLE	LTE 15 MHz	64QAM	-896.28	mHz
MIDDLE	LTE 15 MHz	256QAM	1.2287	Hz
TOP	LTE 15 MHz	QPSK	1.345	Hz
TOP	LTE 15 MHz	16QAM	1.204	Hz
TOP	LTE 15 MHz	64QAM	374	mHz
TOP	LTE 15 MHz	256QAM	92	mHz
BOTTOM	LTE 20 MHz	QPSK	-835	mHz
BOTTOM	LTE 20 MHz	16QAM	1.225	Hz
BOTTOM	LTE 20 MHz	64QAM	1.045	Hz
BOTTOM	LTE 20 MHz	256QAM	1.348	Hz
MIDDLE	LTE 20 MHz	QPSK	-20.423	mHz
MIDDLE	LTE 20 MHz	16QAM	-155.38	mHz
MIDDLE	LTE 20 MHz	64QAM	906.49	mHz
MIDDLE	LTE 20 MHz	256QAM	378.49	mHz
TOP	LTE 20 MHz	QPSK	-308	mHz
TOP	LTE 20 MHz	16QAM	-1.328	Hz
TOP	LTE 20 MHz	64QAM	1.242	Hz
TOP	LTE 20 MHz	256QAM	-432	mHz



Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	967	mHz
BOTTOM	LTE 5 MHz	16QAM	-586	mHz
BOTTOM	LTE 5 MHz	64QAM	593	mHz
BOTTOM	LTE 5 MHz	256QAM	521	mHz
MIDDLE	LTE 5 MHz	QPSK	-155	mHz
MIDDLE	LTE 5 MHz	16QAM	-116	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.33	Hz
MIDDLE	LTE 5 MHz	256QAM	-372	mHz
TOP	LTE 5 MHz	QPSK	-428	mHz
TOP	LTE 5 MHz	16QAM	-1.101	Hz
TOP	LTE 5 MHz	64QAM	1.369	Hz
TOP	LTE 5 MHz	256QAM	339	mHz
BOTTOM	LTE 10 MHz	QPSK	1.295	Hz
BOTTOM	LTE 10 MHz	16QAM	-595	mHz
BOTTOM	LTE 10 MHz	64QAM	1.209	Hz
BOTTOM	LTE 10 MHz	256QAM	1.057	Hz
MIDDLE	LTE 10 MHz	QPSK	-103	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.455	Hz
MIDDLE	LTE 10 MHz	64QAM	1.389	Hz
MIDDLE	LTE 10 MHz	256QAM	-216	mHz
TOP	LTE 10 MHz	QPSK	972	mHz
TOP	LTE 10 MHz	16QAM	285	mHz
TOP	LTE 10 MHz	64QAM	1.444	Hz
TOP	LTE 10 MHz	256QAM	-1.356	Hz
BOTTOM	LTE 15 MHz	QPSK	-784	mHz
BOTTOM	LTE 15 MHz	16QAM	516	mHz
BOTTOM	LTE 15 MHz	64QAM	-172	mHz
BOTTOM	LTE 15 MHz	256QAM	925	mHz
MIDDLE	LTE 15 MHz	QPSK	-843	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.436	Hz
MIDDLE	LTE 15 MHz	64QAM	1.249	Hz
MIDDLE	LTE 15 MHz	256QAM	714	mHz
TOP	LTE 15 MHz	QPSK	899	mHz
TOP	LTE 15 MHz	16QAM	733	mHz
TOP	LTE 15 MHz	64QAM	222	mHz
TOP	LTE 15 MHz	256QAM	-1.058	Hz
BOTTOM	LTE 20 MHz	QPSK	1.384	Hz
BOTTOM	LTE 20 MHz	16QAM	-1.202	Hz
BOTTOM	LTE 20 MHz	64QAM	1.039	Hz
BOTTOM	LTE 20 MHz	256QAM	209	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.471	Hz
MIDDLE	LTE 20 MHz	16QAM	1.265	Hz
MIDDLE	LTE 20 MHz	64QAM	96	mHz
MIDDLE	LTE 20 MHz	256QAM	456	mHz
TOP	LTE 20 MHz	QPSK	-1.051	Hz
TOP	LTE 20 MHz	16QAM	-1.31	Hz
TOP	LTE 20 MHz	64QAM	1.355	Hz
TOP	LTE 20 MHz	256QAM	101	mHz



Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	721	mHz
BOTTOM	LTE 5 MHz	16QAM	240	mHz
BOTTOM	LTE 5 MHz	64QAM	1.488	Hz
BOTTOM	LTE 5 MHz	256QAM	-812	mHz
MIDDLE	LTE 5 MHz	QPSK	408	mHz
MIDDLE	LTE 5 MHz	16QAM	787	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.499	Hz
MIDDLE	LTE 5 MHz	256QAM	1.258	Hz
TOP	LTE 5 MHz	QPSK	-711	mHz
TOP	LTE 5 MHz	16QAM	-116	mHz
TOP	LTE 5 MHz	64QAM	974	mHz
TOP	LTE 5 MHz	256QAM	-73	mHz
BOTTOM	LTE 10 MHz	QPSK	-428	mHz
BOTTOM	LTE 10 MHz	16QAM	409	mHz
BOTTOM	LTE 10 MHz	64QAM	114	mHz
BOTTOM	LTE 10 MHz	256QAM	794	mHz
MIDDLE	LTE 10 MHz	QPSK	111	mHz
MIDDLE	LTE 10 MHz	16QAM	932	mHz
MIDDLE	LTE 10 MHz	64QAM	-121	mHz
MIDDLE	LTE 10 MHz	256QAM	-94	mHz
TOP	LTE 10 MHz	QPSK	-1.122	Hz
TOP	LTE 10 MHz	16QAM	-1.316	Hz
TOP	LTE 10 MHz	64QAM	-1.222	Hz
TOP	LTE 10 MHz	256QAM	115	mHz
BOTTOM	LTE 15 MHz	QPSK	44	mHz
BOTTOM	LTE 15 MHz	16QAM	-126	mHz
BOTTOM	LTE 15 MHz	64QAM	1.466	Hz
BOTTOM	LTE 15 MHz	256QAM	824	mHz
MIDDLE	LTE 15 MHz	QPSK	-898	mHz
MIDDLE	LTE 15 MHz	16QAM	-642	mHz
MIDDLE	LTE 15 MHz	64QAM	-626	mHz
MIDDLE	LTE 15 MHz	256QAM	-61	mHz
TOP	LTE 15 MHz	QPSK	-1.236	Hz
TOP	LTE 15 MHz	16QAM	1.319	Hz
TOP	LTE 15 MHz	64QAM	41	mHz
TOP	LTE 15 MHz	256QAM	146	mHz
BOTTOM	LTE 20 MHz	QPSK	644	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.205	Hz
BOTTOM	LTE 20 MHz	64QAM	1.451	Hz
BOTTOM	LTE 20 MHz	256QAM	-676	mHz
MIDDLE	LTE 20 MHz	QPSK	-983	mHz
MIDDLE	LTE 20 MHz	16QAM	1.389	Hz
MIDDLE	LTE 20 MHz	64QAM	587	mHz
MIDDLE	LTE 20 MHz	256QAM	784	mHz
TOP	LTE 20 MHz	QPSK	1.043	Hz
TOP	LTE 20 MHz	16QAM	-231	mHz
TOP	LTE 20 MHz	64QAM	-248	mHz
TOP	LTE 20 MHz	256QAM	-514	mHz



Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-239.820	mHz
BOTTOM	LTE 5 MHz	16QAM	859.280	mHz
BOTTOM	LTE 5 MHz	64QAM	-474.070	mHz
BOTTOM	LTE 5 MHz	256QAM	476.690	mHz
MIDDLE	LTE 5 MHz	QPSK	-308.200	mHz
MIDDLE	LTE 5 MHz	16QAM	237.140	mHz
MIDDLE	LTE 5 MHz	64QAM	-525.980	mHz
MIDDLE	LTE 5 MHz	256QAM	-644.530	mHz
TOP	LTE 5 MHz	QPSK	307.240	mHz
TOP	LTE 5 MHz	16QAM	397.670	mHz
TOP	LTE 5 MHz	64QAM	886.390	mHz
TOP	LTE 5 MHz	256QAM	316.890	mHz
BOTTOM	LTE 10 MHz	QPSK	-84.680	mHz
BOTTOM	LTE 10 MHz	16QAM	-443.400	mHz
BOTTOM	LTE 10 MHz	64QAM	-591.390	mHz
BOTTOM	LTE 10 MHz	256QAM	-617.350	mHz
MIDDLE	LTE 10 MHz	QPSK	-108.710	mHz
MIDDLE	LTE 10 MHz	16QAM	-722.160	mHz
MIDDLE	LTE 10 MHz	64QAM	-757.730	mHz
MIDDLE	LTE 10 MHz	256QAM	499.480	mHz
TOP	LTE 10 MHz	QPSK	-773.270	mHz
TOP	LTE 10 MHz	16QAM	600.560	mHz
TOP	LTE 10 MHz	64QAM	179.970	mHz
TOP	LTE 10 MHz	256QAM	-74.322	mHz
BOTTOM	LTE 15 MHz	QPSK	-2.840	Hz
BOTTOM	LTE 15 MHz	16QAM	-810.770	mHz
BOTTOM	LTE 15 MHz	64QAM	389.660	mHz
BOTTOM	LTE 15 MHz	256QAM	942.360	mHz
MIDDLE	LTE 15 MHz	QPSK	-663.670	mHz
MIDDLE	LTE 15 MHz	16QAM	-416.620	mHz
MIDDLE	LTE 15 MHz	64QAM	-317.600	mHz
MIDDLE	LTE 15 MHz	256QAM	401.760	mHz
TOP	LTE 15 MHz	QPSK	-504.220	mHz
TOP	LTE 15 MHz	16QAM	199.870	mHz
TOP	LTE 15 MHz	64QAM	536.330	mHz
TOP	LTE 15 MHz	256QAM	173.410	mHz
BOTTOM	LTE 20 MHz	QPSK	35.813	mHz
BOTTOM	LTE 20 MHz	16QAM	-604.840	mHz
BOTTOM	LTE 20 MHz	64QAM	-363.030	mHz
BOTTOM	LTE 20 MHz	256QAM	21.010	mHz
MIDDLE	LTE 20 MHz	QPSK	509.630	mHz
MIDDLE	LTE 20 MHz	16QAM	783.210	mHz
MIDDLE	LTE 20 MHz	64QAM	-616.550	mHz
MIDDLE	LTE 20 MHz	256QAM	-60.908	mHz
TOP	LTE 20 MHz	QPSK	-221.560	mHz
TOP	LTE 20 MHz	16QAM	62.333	mHz
TOP	LTE 20 MHz	64QAM	919.900	mHz
TOP	LTE 20 MHz	256QAM	-480.630	mHz



Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-347	mHz
BOTTOM	LTE 5 MHz	16QAM	645	mHz
BOTTOM	LTE 5 MHz	64QAM	1.038	Hz
BOTTOM	LTE 5 MHz	256QAM	726	mHz
MIDDLE	LTE 5 MHz	QPSK	-862.14	mHz
MIDDLE	LTE 5 MHz	16QAM	-188.64	mHz
MIDDLE	LTE 5 MHz	64QAM	839.07	mHz
MIDDLE	LTE 5 MHz	256QAM	-205.56	mHz
TOP	LTE 5 MHz	QPSK	-1.461	Hz
TOP	LTE 5 MHz	16QAM	124	mHz
TOP	LTE 5 MHz	64QAM	-382	mHz
TOP	LTE 5 MHz	256QAM	155	mHz
BOTTOM	LTE 10 MHz	QPSK	1.057	Hz
BOTTOM	LTE 10 MHz	16QAM	-12	mHz
BOTTOM	LTE 10 MHz	64QAM	-1.403	Hz
BOTTOM	LTE 10 MHz	256QAM	-458	mHz
MIDDLE	LTE 10 MHz	QPSK	1.0023	Hz
MIDDLE	LTE 10 MHz	16QAM	1.0626	Hz
MIDDLE	LTE 10 MHz	64QAM	110.05	mHz
MIDDLE	LTE 10 MHz	256QAM	-217.34	mHz
TOP	LTE 10 MHz	QPSK	467	mHz
TOP	LTE 10 MHz	16QAM	-577	mHz
TOP	LTE 10 MHz	64QAM	-401	mHz
TOP	LTE 10 MHz	256QAM	-155	mHz
BOTTOM	LTE 15 MHz	QPSK	629	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.151	Hz
BOTTOM	LTE 15 MHz	64QAM	-105	mHz
BOTTOM	LTE 15 MHz	256QAM	67	mHz
MIDDLE	LTE 15 MHz	QPSK	-909.08	mHz
MIDDLE	LTE 15 MHz	16QAM	-780.3	mHz
MIDDLE	LTE 15 MHz	64QAM	-587.59	mHz
MIDDLE	LTE 15 MHz	256QAM	317.56	mHz
TOP	LTE 15 MHz	QPSK	-1.212	Hz
TOP	LTE 15 MHz	16QAM	1.378	Hz
TOP	LTE 15 MHz	64QAM	821	mHz
TOP	LTE 15 MHz	256QAM	608	mHz
BOTTOM	LTE 20 MHz	QPSK	-442	mHz
BOTTOM	LTE 20 MHz	16QAM	325	mHz
BOTTOM	LTE 20 MHz	64QAM	-908	mHz
BOTTOM	LTE 20 MHz	256QAM	-400	mHz
MIDDLE	LTE 20 MHz	QPSK	-596.09	mHz
MIDDLE	LTE 20 MHz	16QAM	352.52	mHz
MIDDLE	LTE 20 MHz	64QAM	-149.75	mHz
MIDDLE	LTE 20 MHz	256QAM	22.597	mHz
TOP	LTE 20 MHz	QPSK	-521	mHz
TOP	LTE 20 MHz	16QAM	-1.281	Hz
TOP	LTE 20 MHz	64QAM	-776	mHz
TOP	LTE 20 MHz	256QAM	128	mHz



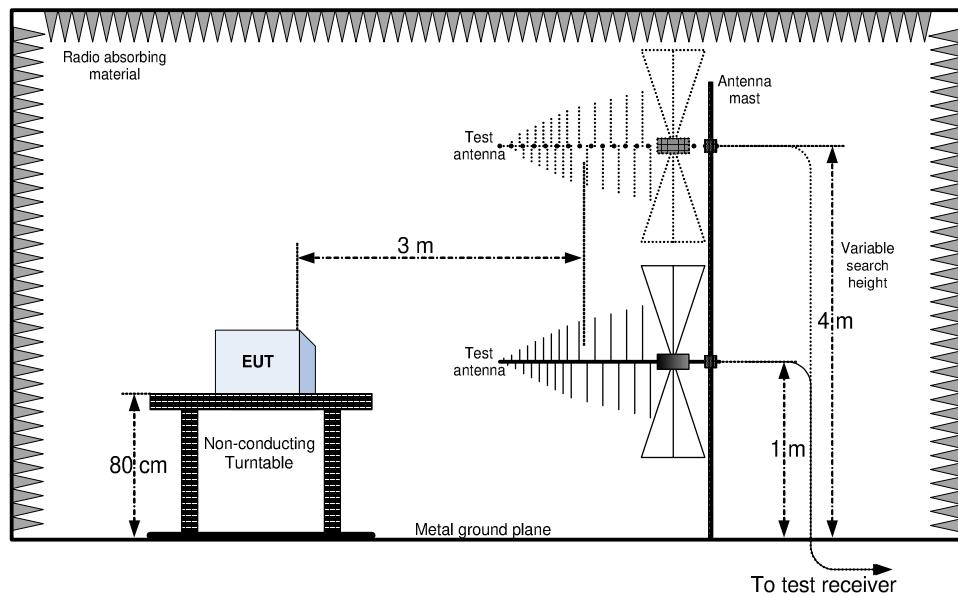
Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	265	mHz
BOTTOM	LTE 5 MHz	16QAM	-700	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.101	Hz
BOTTOM	LTE 5 MHz	256QAM	-464	mHz
MIDDLE	LTE 5 MHz	QPSK	-335.25	mHz
MIDDLE	LTE 5 MHz	16QAM	89.145	mHz
MIDDLE	LTE 5 MHz	64QAM	403.96	mHz
MIDDLE	LTE 5 MHz	256QAM	-850.21	mHz
TOP	LTE 5 MHz	QPSK	-844	mHz
TOP	LTE 5 MHz	16QAM	1.201	Hz
TOP	LTE 5 MHz	64QAM	-690	mHz
TOP	LTE 5 MHz	256QAM	-1.169	Hz
BOTTOM	LTE 10 MHz	QPSK	-468	mHz
BOTTOM	LTE 10 MHz	16QAM	540	mHz
BOTTOM	LTE 10 MHz	64QAM	-592	mHz
BOTTOM	LTE 10 MHz	256QAM	124	mHz
MIDDLE	LTE 10 MHz	QPSK	-586.27	mHz
MIDDLE	LTE 10 MHz	16QAM	454.78	mHz
MIDDLE	LTE 10 MHz	64QAM	-636.64	mHz
MIDDLE	LTE 10 MHz	256QAM	44.054	mHz
TOP	LTE 10 MHz	QPSK	1.498	Hz
TOP	LTE 10 MHz	16QAM	260	mHz
TOP	LTE 10 MHz	64QAM	136	mHz
TOP	LTE 10 MHz	256QAM	973	mHz
BOTTOM	LTE 15 MHz	QPSK	-358	mHz
BOTTOM	LTE 15 MHz	16QAM	1.221	Hz
BOTTOM	LTE 15 MHz	64QAM	-798	mHz
BOTTOM	LTE 15 MHz	256QAM	1000	mHz
MIDDLE	LTE 15 MHz	QPSK	-622.91	mHz
MIDDLE	LTE 15 MHz	16QAM	495.7	mHz
MIDDLE	LTE 15 MHz	64QAM	582.95	mHz
MIDDLE	LTE 15 MHz	256QAM	-194.01	mHz
TOP	LTE 15 MHz	QPSK	974	mHz
TOP	LTE 15 MHz	16QAM	795	mHz
TOP	LTE 15 MHz	64QAM	495	mHz
TOP	LTE 15 MHz	256QAM	-808	mHz
BOTTOM	LTE 20 MHz	QPSK	-954	mHz
BOTTOM	LTE 20 MHz	16QAM	1.111	Hz
BOTTOM	LTE 20 MHz	64QAM	654	mHz
BOTTOM	LTE 20 MHz	256QAM	-1.279	Hz
MIDDLE	LTE 20 MHz	QPSK	502.51	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.3883	Hz
MIDDLE	LTE 20 MHz	64QAM	1.0794	Hz
MIDDLE	LTE 20 MHz	256QAM	-828.56	mHz
TOP	LTE 20 MHz	QPSK	74	mHz
TOP	LTE 20 MHz	16QAM	506	mHz
TOP	LTE 20 MHz	64QAM	-583	mHz
TOP	LTE 20 MHz	256QAM	1.411	Hz



Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-517	mHz
BOTTOM	LTE 5 MHz	16QAM	-1.26	Hz
BOTTOM	LTE 5 MHz	64QAM	-893	mHz
BOTTOM	LTE 5 MHz	256QAM	41	mHz
MIDDLE	LTE 5 MHz	QPSK	1.153	Hz
MIDDLE	LTE 5 MHz	16QAM	-40	mHz
MIDDLE	LTE 5 MHz	64QAM	-953	mHz
MIDDLE	LTE 5 MHz	256QAM	-295	mHz
TOP	LTE 5 MHz	QPSK	1.351	Hz
TOP	LTE 5 MHz	16QAM	-635	mHz
TOP	LTE 5 MHz	64QAM	-1.098	Hz
TOP	LTE 5 MHz	256QAM	-1.342	Hz
BOTTOM	LTE 10 MHz	QPSK	1.315	Hz
BOTTOM	LTE 10 MHz	16QAM	540	mHz
BOTTOM	LTE 10 MHz	64QAM	-1.417	Hz
BOTTOM	LTE 10 MHz	256QAM	-624	mHz
MIDDLE	LTE 10 MHz	QPSK	-138	mHz
MIDDLE	LTE 10 MHz	16QAM	761	mHz
MIDDLE	LTE 10 MHz	64QAM	415	mHz
MIDDLE	LTE 10 MHz	256QAM	-155	mHz
TOP	LTE 10 MHz	QPSK	-106	mHz
TOP	LTE 10 MHz	16QAM	-546	mHz
TOP	LTE 10 MHz	64QAM	1.479	Hz
TOP	LTE 10 MHz	256QAM	-840	mHz
BOTTOM	LTE 15 MHz	QPSK	125	mHz
BOTTOM	LTE 15 MHz	16QAM	1.452	Hz
BOTTOM	LTE 15 MHz	64QAM	1.21	Hz
BOTTOM	LTE 15 MHz	256QAM	769	mHz
MIDDLE	LTE 15 MHz	QPSK	-559	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.49	Hz
MIDDLE	LTE 15 MHz	64QAM	355	mHz
MIDDLE	LTE 15 MHz	256QAM	1.015	Hz
TOP	LTE 15 MHz	QPSK	-354	mHz
TOP	LTE 15 MHz	16QAM	212	mHz
TOP	LTE 15 MHz	64QAM	-1.452	Hz
TOP	LTE 15 MHz	256QAM	-673	mHz
BOTTOM	LTE 20 MHz	QPSK	938	mHz
BOTTOM	LTE 20 MHz	16QAM	908	mHz
BOTTOM	LTE 20 MHz	64QAM	-1.105	Hz
BOTTOM	LTE 20 MHz	256QAM	-366	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.318	Hz
MIDDLE	LTE 20 MHz	16QAM	1.246	Hz
MIDDLE	LTE 20 MHz	64QAM	-865	mHz
MIDDLE	LTE 20 MHz	256QAM	-923	mHz
TOP	LTE 20 MHz	QPSK	1.136	Hz
TOP	LTE 20 MHz	16QAM	305	mHz
TOP	LTE 20 MHz	64QAM	425	mHz
TOP	LTE 20 MHz	256QAM	932	mHz

## Appendix B: Block diagrams of test set-ups

### Radiated emissions set-up



### Substitution method set-up

