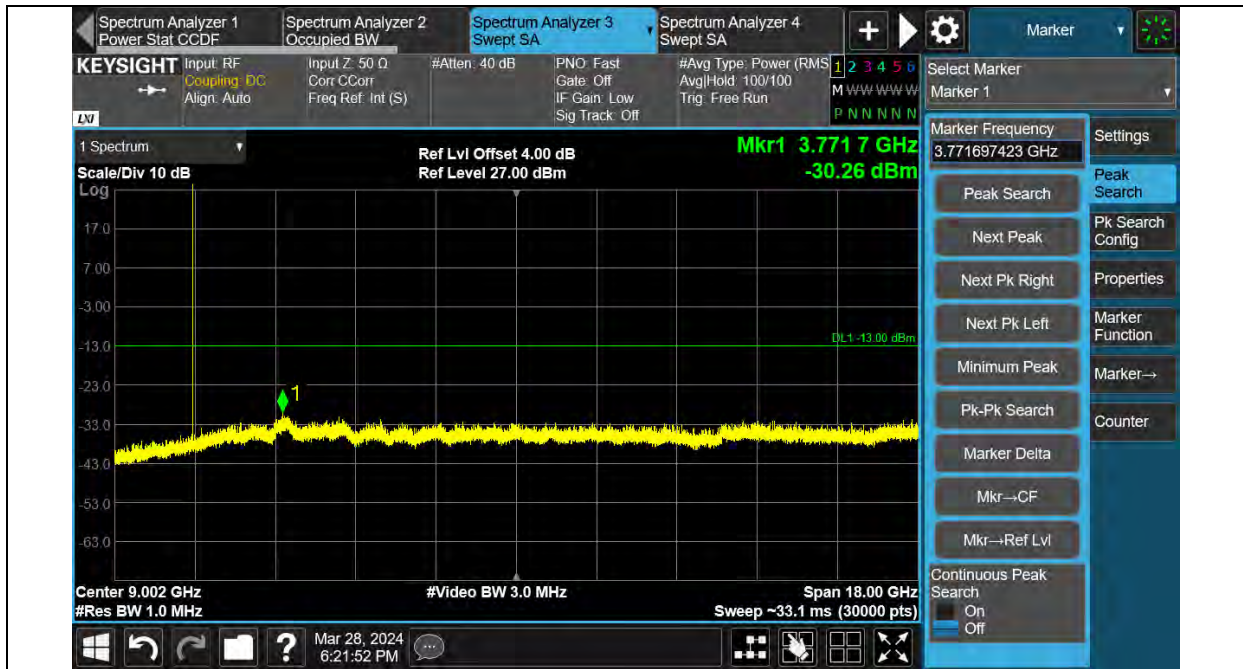


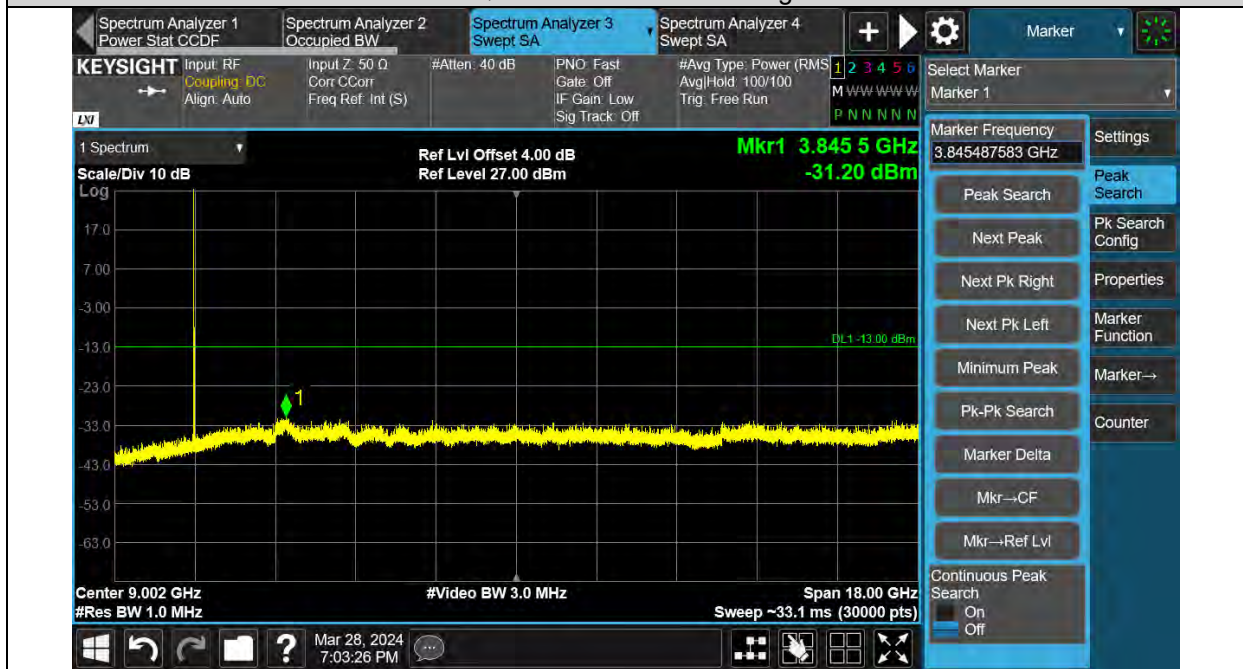


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-5MHz-16QAM-132647-1RB#0-Range:30~18000MHz

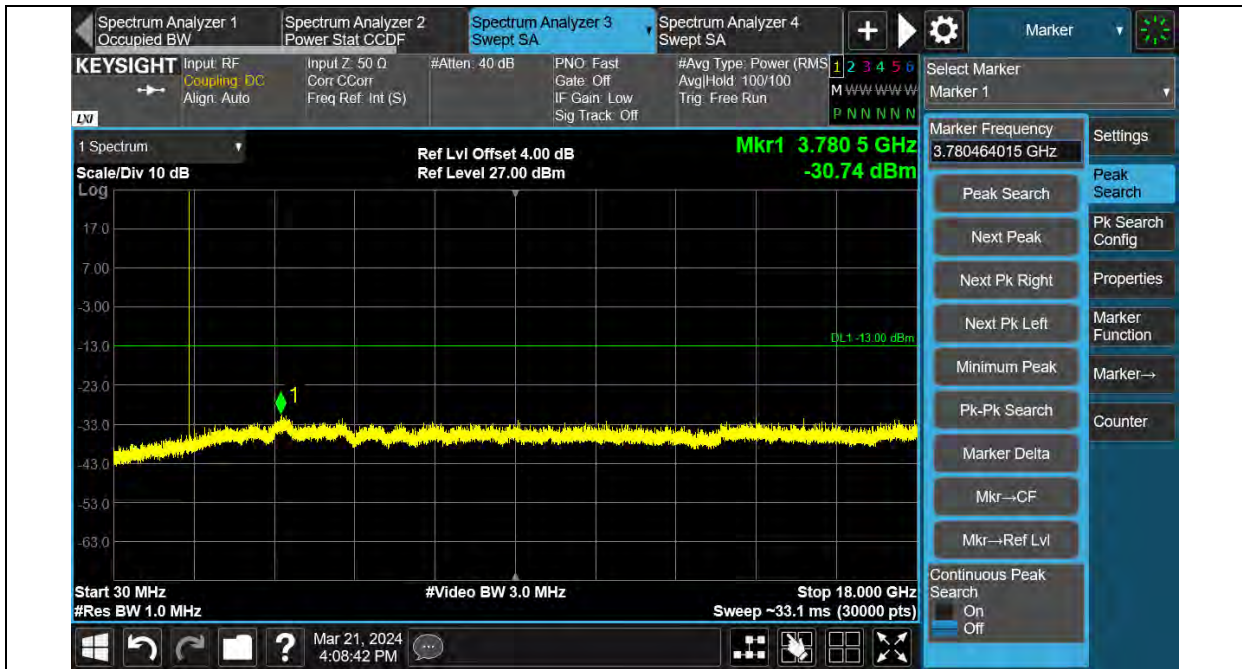


Band66-10MHz-QPSK-132022-1RB#0-Range:30~18000MHz



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-10MHz-QPSK-132322-1RB#0-Range:30~18000MHz

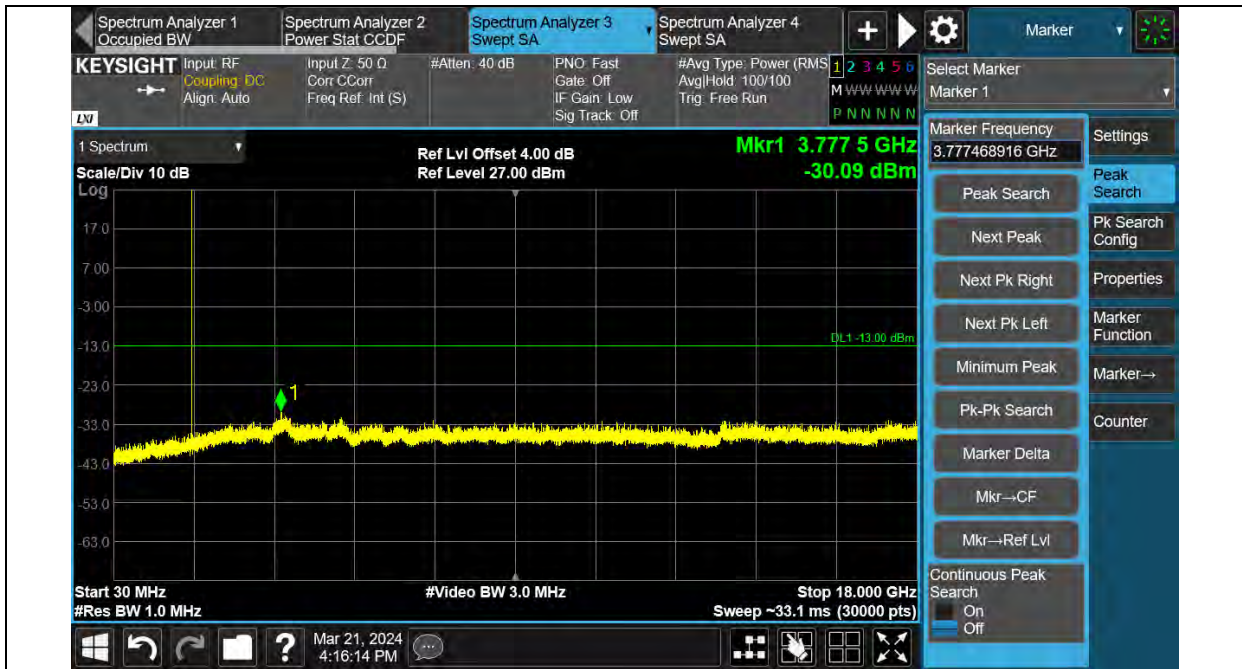


Band66-10MHz-QPSK-132622-1RB#0-Range:30~18000MHz

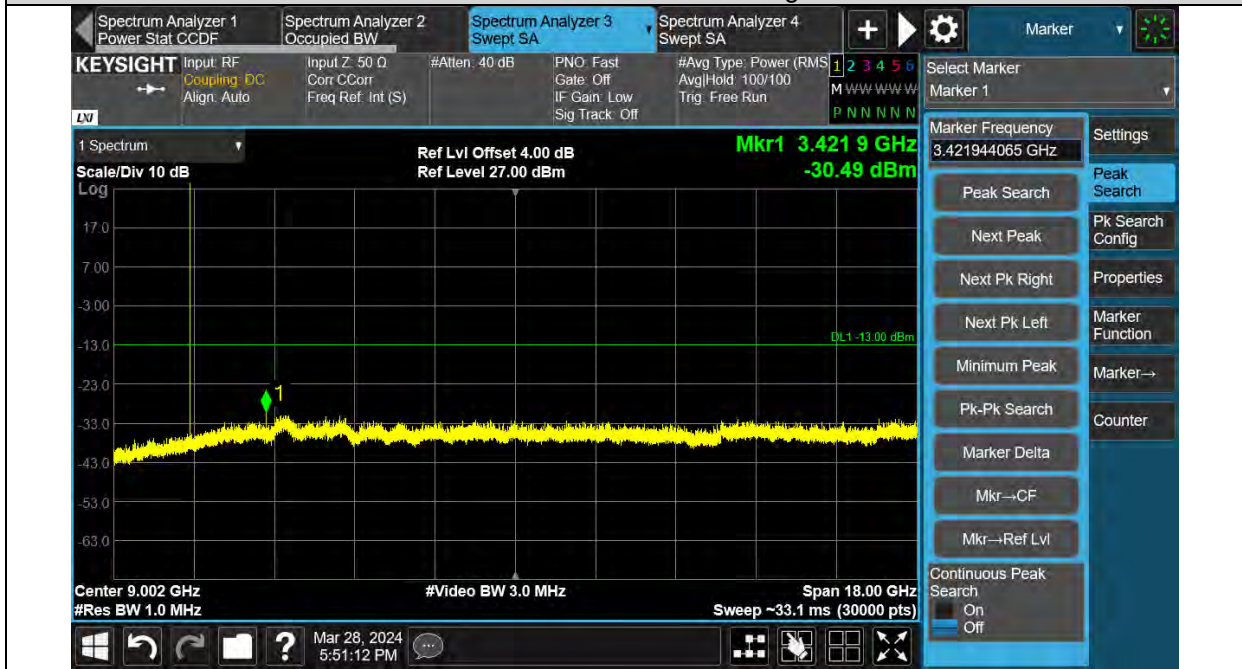


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-10MHz-16QAM-132022-1RB#0-Range:30~18000MHz



Band66-10MHz-16QAM-132322-1RB#0-Range:30~18000MHz



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-10MHz-16QAM-132622-1RB#0-Range:30~18000MHz

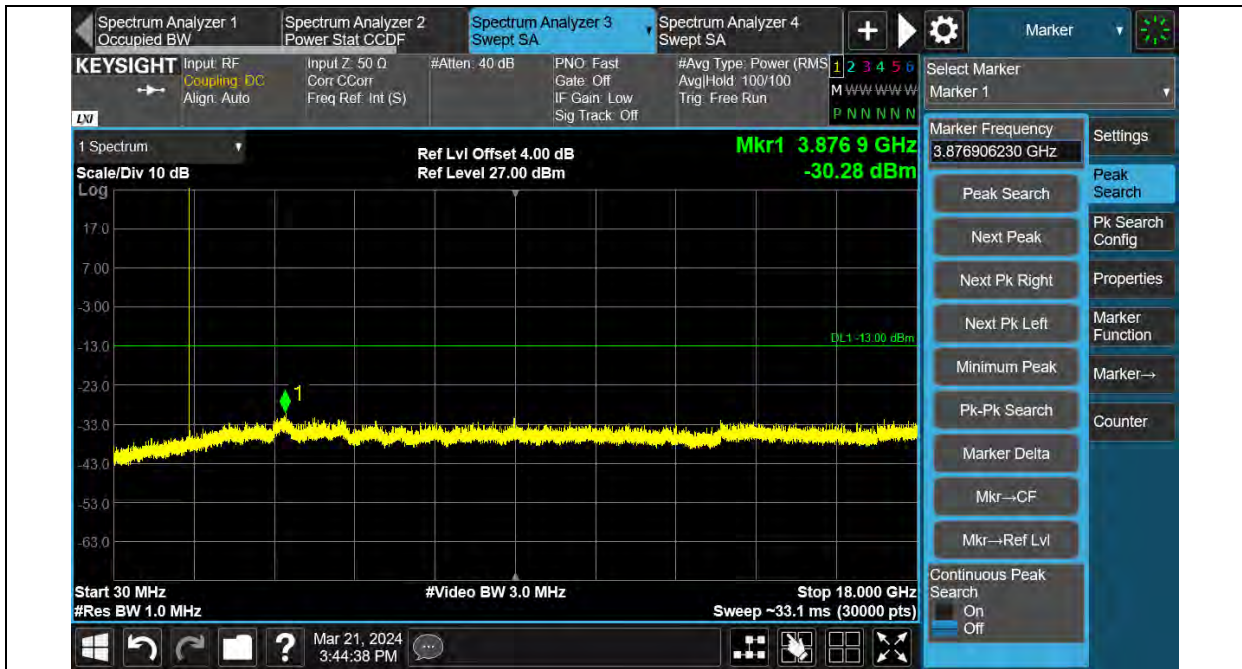


Band66-15MHz-QPSK-132047-1RB#0-Range:30~18000MHz

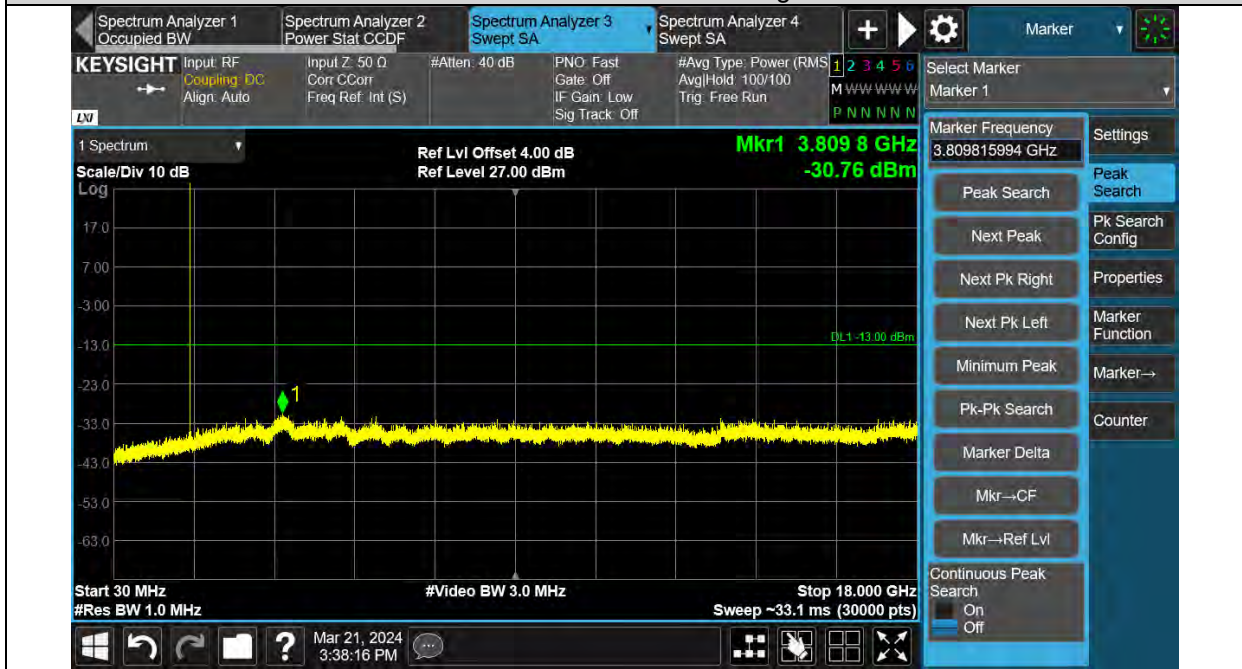


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-15MHz-QPSK-132322-1RB#0-Range:30~18000MHz

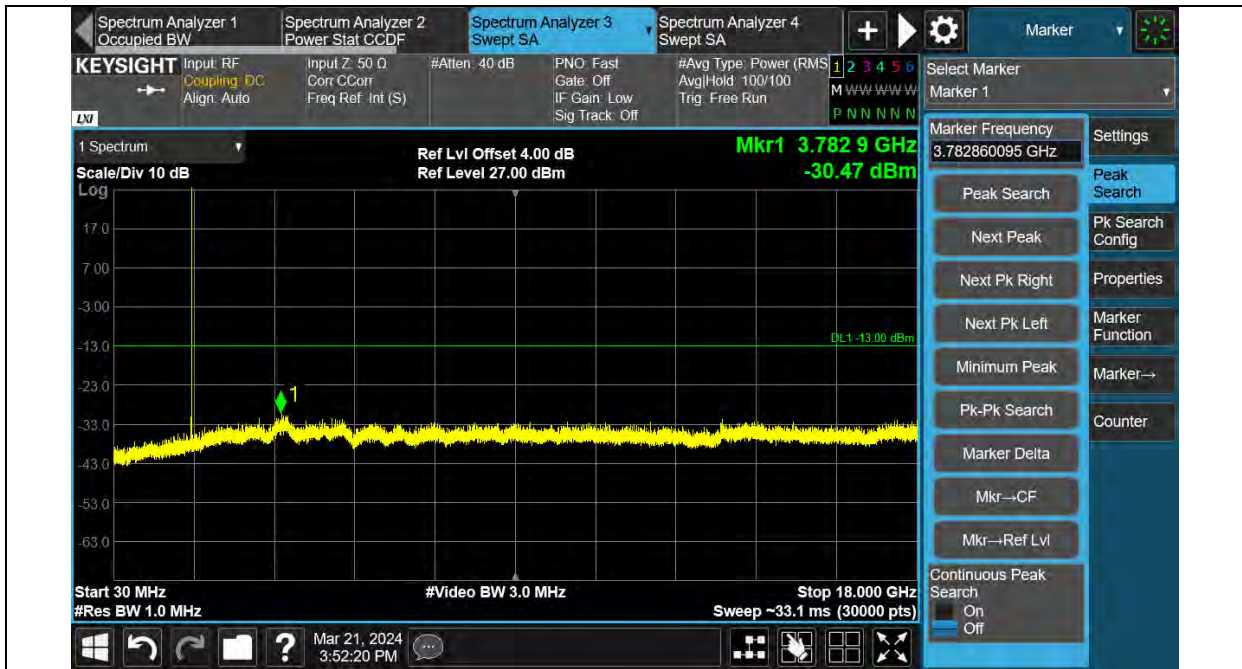


Band66-15MHz-QPSK-132597-1RB#0-Range:30~18000MHz



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-15MHz-16QAM-132047-1RB#0-Range:30~18000MHz

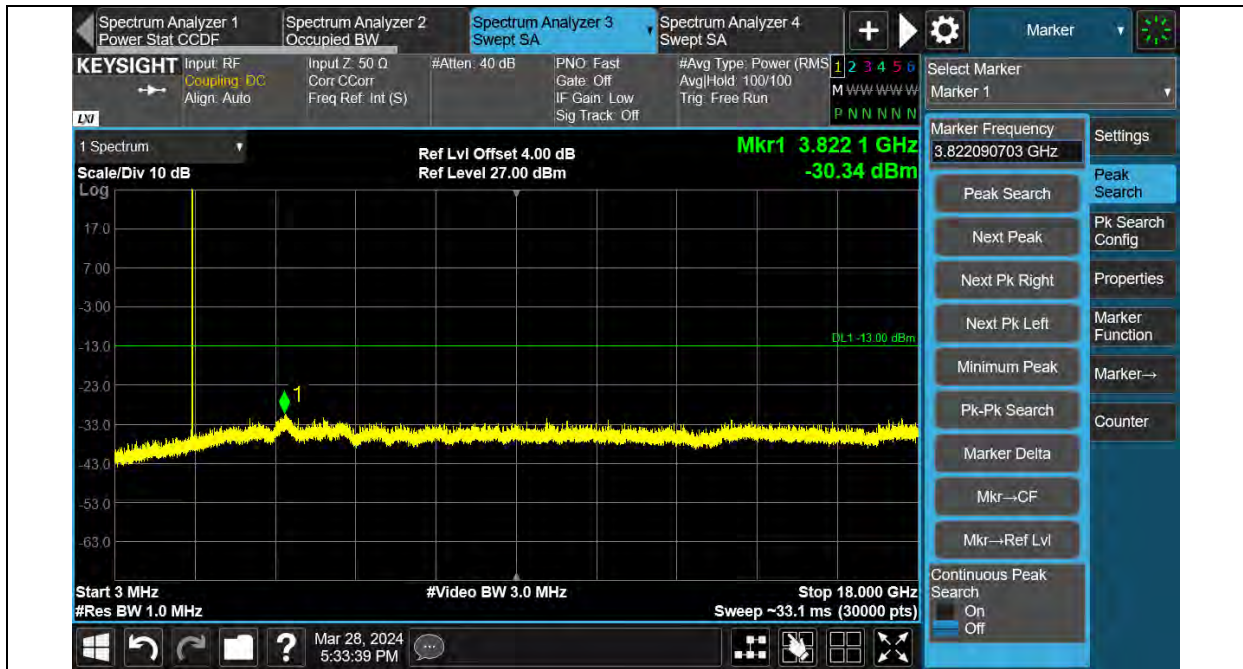


Band66-15MHz-16QAM-132322-1RB#0-Range:30~18000MHz

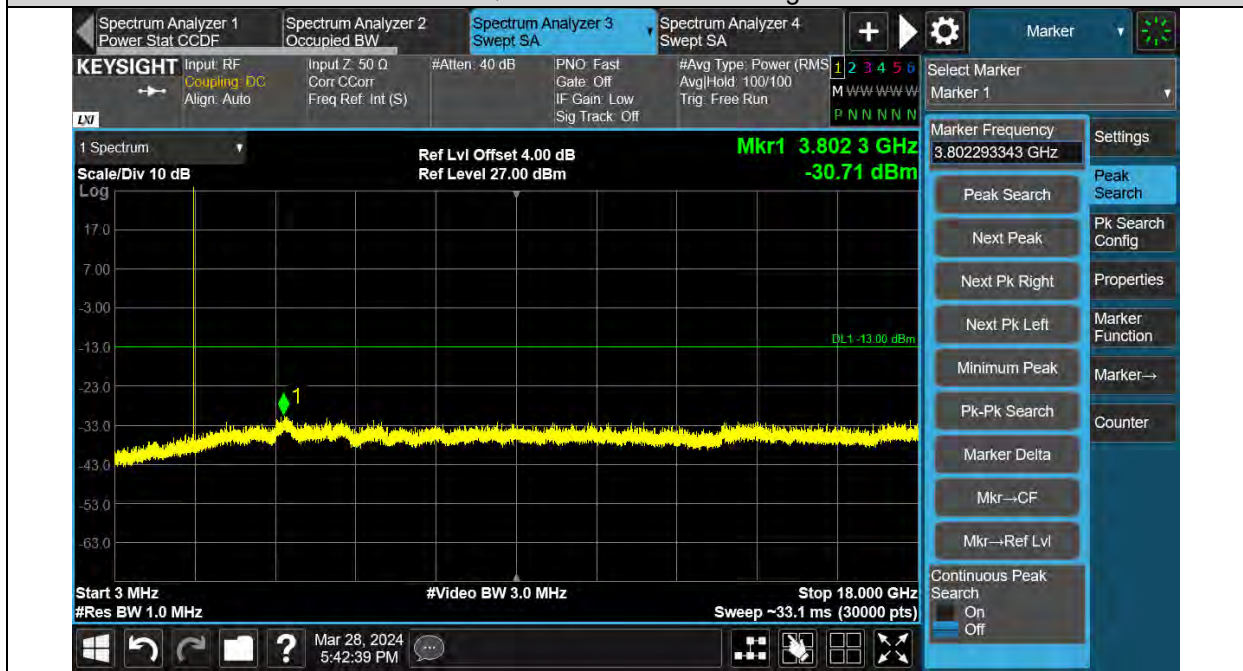


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-15MHz-16QAM-132597-1RB#0-Range:30~18000MHz

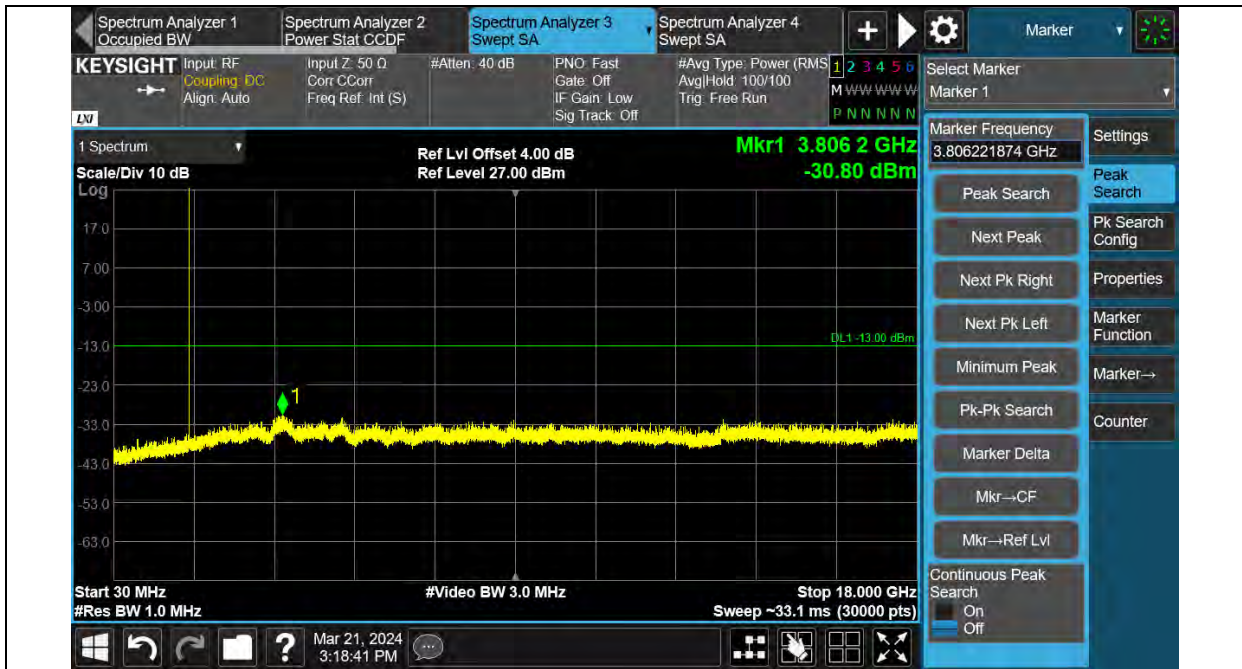


Band66-20MHz-QPSK-132072-1RB#0-Range:30~18000MHz

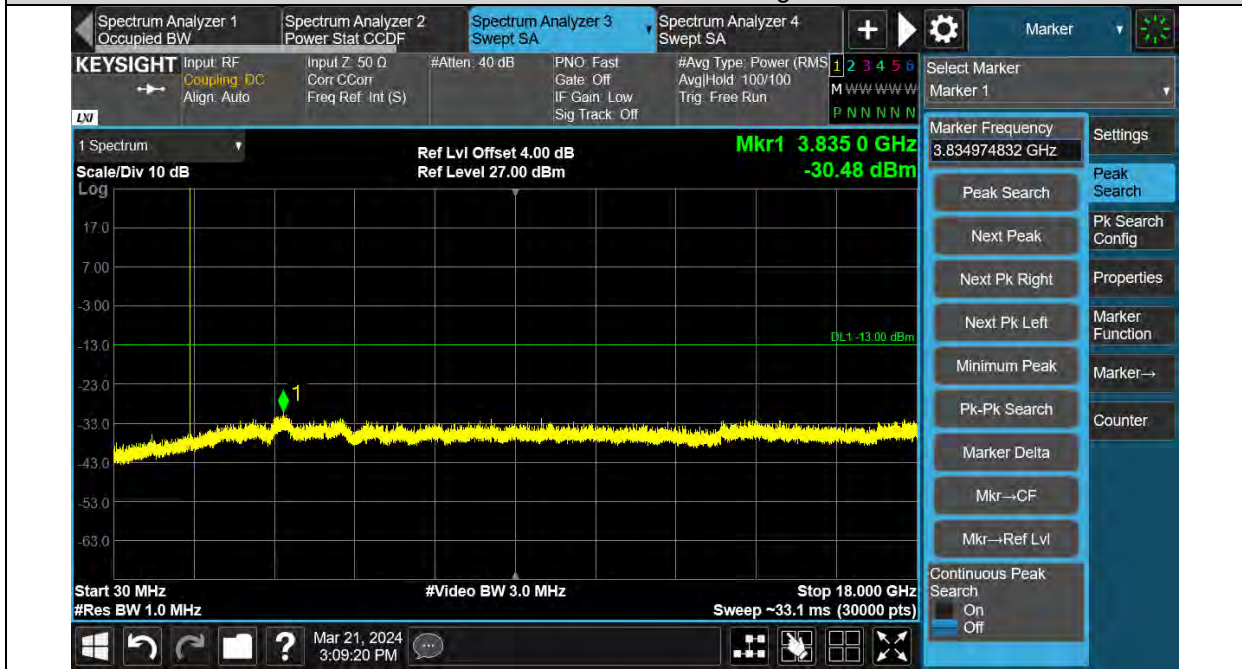


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-20MHz-QPSK-132322-1RB#0-Range:30~18000MHz



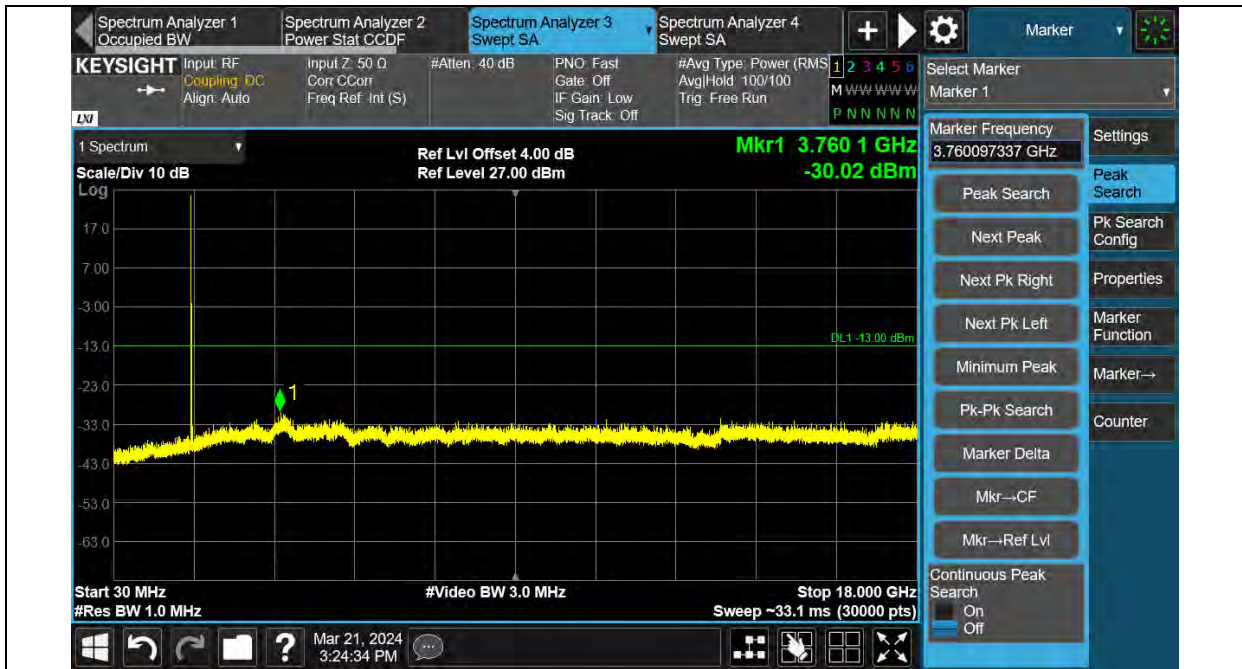
Band66-20MHz-QPSK-132572-1RB#0-Range:30~18000MHz



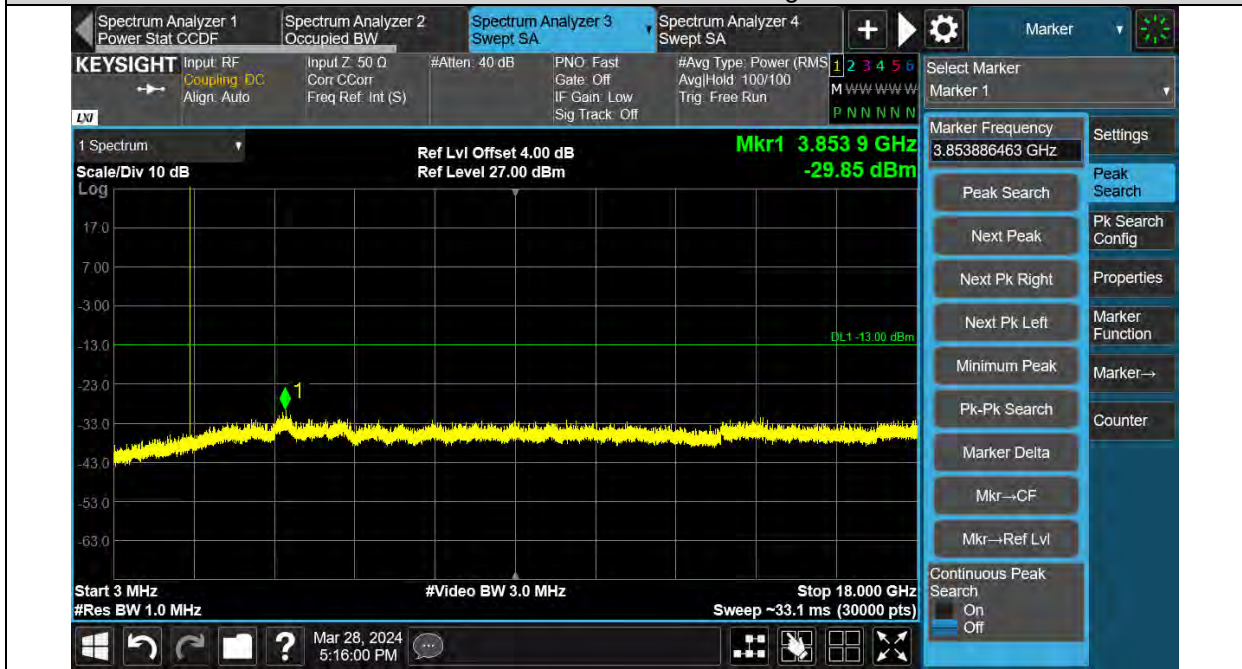


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-20MHz-16QAM-132072-1RB#0-Range:30~18000MHz



Band66-20MHz-16QAM-132322-1RB#0-Range:30~18000MHz

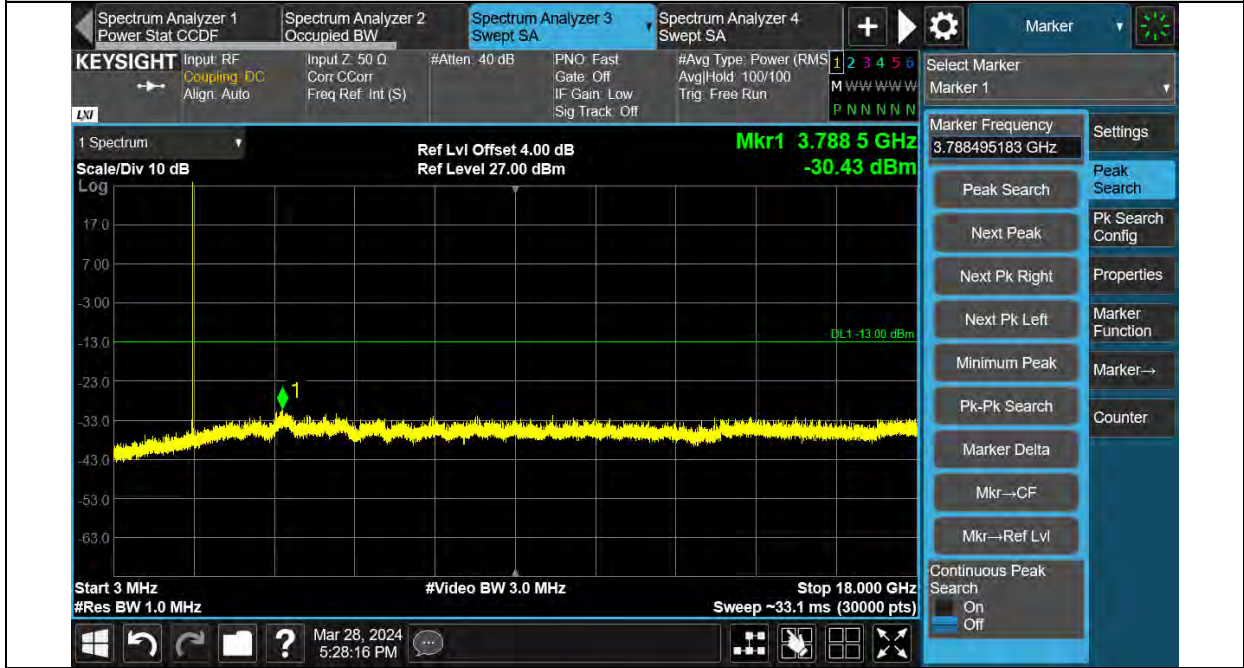


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-20MHz-16QAM-132572-1RB#0-Range:30~18000MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	6RB#0	VL	NT	-2.7	-0.001570	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	VN	NT	-7.3	-0.004244	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	VH	NT	10.3	0.005988	±2.5	PASS



**BUREAU  
VERITAS**

**Test Report No.: W7L-240204W001RF04**

Band66	20MHz	QPSK	132322	6RB#0	VL	NT	3.7	0.002120	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	VN	NT	-31.7	-0.018166	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	VH	NT	17.7	0.010143	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	VL	NT	8.4	0.004746	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	VN	NT	29.2	0.016497	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	VH	NT	17.5	0.009887	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	VL	NT	-33.7	-0.019593	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	VN	NT	-8.6	-0.005000	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	VH	NT	16.1	0.009360	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	VL	NT	10	0.005731	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	VN	NT	23.1	0.013238	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	VH	NT	22.3	0.012779	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	VL	NT	5.7	0.003220	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	VN	NT	8.1	0.004576	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	VH	NT	12.7	0.007175	±2.5	PASS

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	6RB#0	NV	-30	-6.3	-0.003663	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	-20	-14.2	-0.008256	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	-10	30.2	0.017558	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	0	-15	-0.008721	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	10	2.3	0.001337	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	20	25.5	0.014826	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	30	-2.7	-0.001570	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	40	28	0.016279	±2.5	PASS
Band66	20MHz	QPSK	132072	6RB#0	NV	50	-19.1	-0.011105	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	-30	4.2	0.002407	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	-20	31.6	0.018109	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	-10	17.2	0.009857	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	0	-31.8	-0.018223	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	10	-29.1	-0.016676	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	20	-20.7	-0.011862	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	30	-8.6	-0.004928	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	40	-24.7	-0.014155	±2.5	PASS
Band66	20MHz	QPSK	132322	6RB#0	NV	50	-21.9	-0.012550	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	-30	-22.1	-0.012486	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	-20	32.2	0.018192	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	-10	-12.5	-0.007062	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	0	-27.1	-0.015311	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	10	-23.1	-0.013051	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	20	-0.9	-0.000508	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	30	-9.5	-0.005367	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	40	-28.7	-0.016215	±2.5	PASS
Band66	20MHz	QPSK	132572	6RB#0	NV	50	-5	-0.002825	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	-30	22.5	0.013081	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	-20	15.6	0.009070	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	-10	-15	-0.008721	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	0	23.2	0.013488	±2.5	PASS



BUREAU VERITAS

Test Report No.: W7L-240204W001RF04

Band66	20MHz	16QAM	132072	6RB#0	NV	10	-25	-0.014535	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	20	5.9	0.003430	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	30	31.3	0.018198	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	40	-0.1	-0.000058	±2.5	PASS
Band66	20MHz	16QAM	132072	6RB#0	NV	50	1.8	0.001047	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	-30	-33.6	-0.019255	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	-20	-4.2	-0.002407	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	-10	4	0.002292	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	0	-16.2	-0.009284	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	10	21.8	0.012493	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	20	6.9	0.003954	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	30	0.4	0.000229	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	40	-17.8	-0.010201	±2.5	PASS
Band66	20MHz	16QAM	132322	6RB#0	NV	50	-34.5	-0.019771	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	-30	-27	-0.015254	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	-20	33.7	0.019040	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	-10	11.2	0.006328	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	0	-25.7	-0.014520	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	10	1.5	0.000847	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	20	33.3	0.018814	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	30	29.4	0.016610	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	40	-32.5	-0.018362	±2.5	PASS
Band66	20MHz	16QAM	132572	6RB#0	NV	50	-9.5	-0.005367	±2.5	PASS



Test Report No.: W7L-240204W001RF04

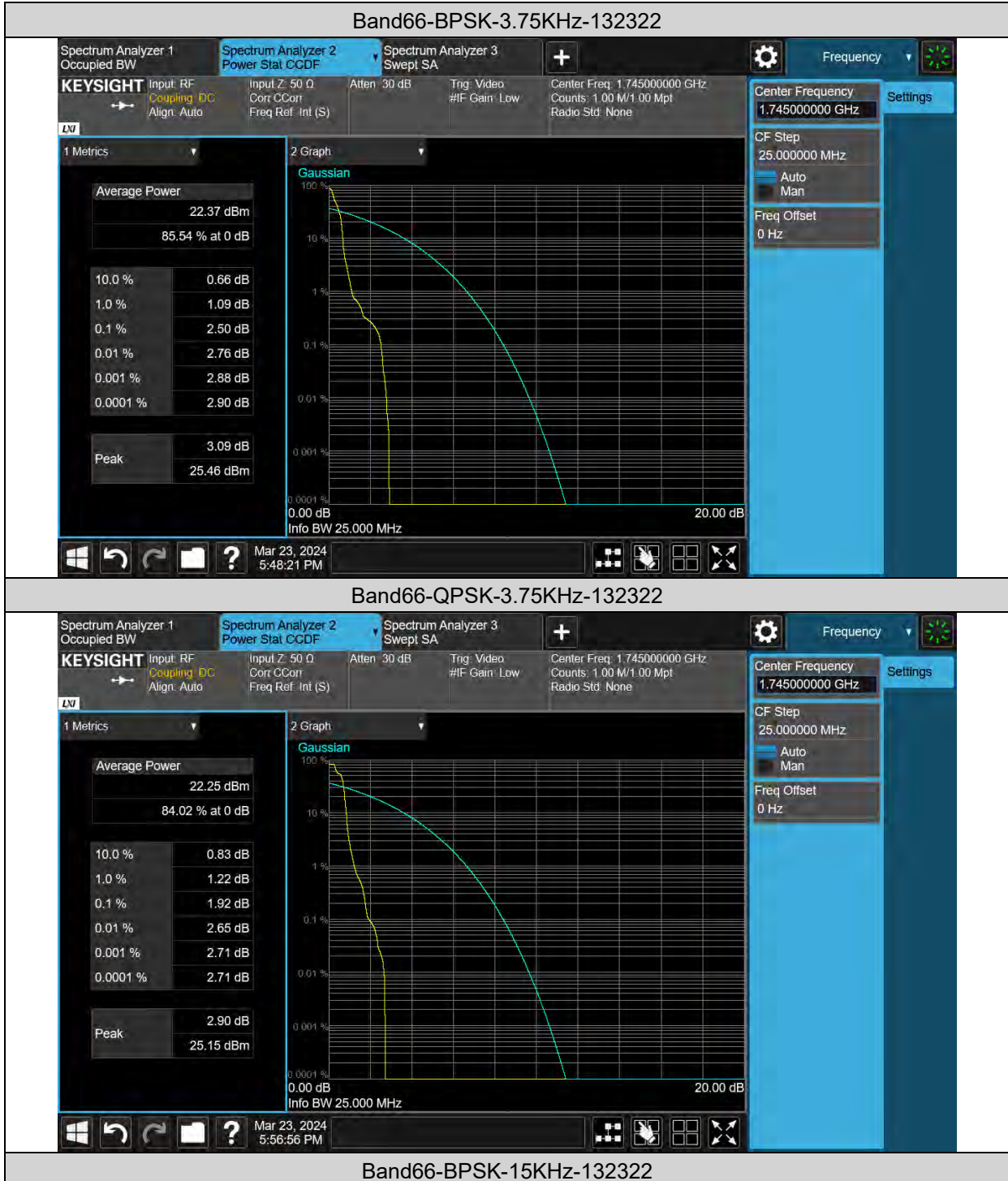
## NB-IOT: LTE BAND66(INCLUDING LTE BAND4)

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channe	Result(dB)	Limit(dB)	Verdict
Band66	BPSK	3.75	132322	2.50	13	PASS
	QPSK	3.75	132322	1.92	13	PASS
	BPSK	15	132322	2.09	13	PASS
	QPSK	15	132322	2.09	13	PASS

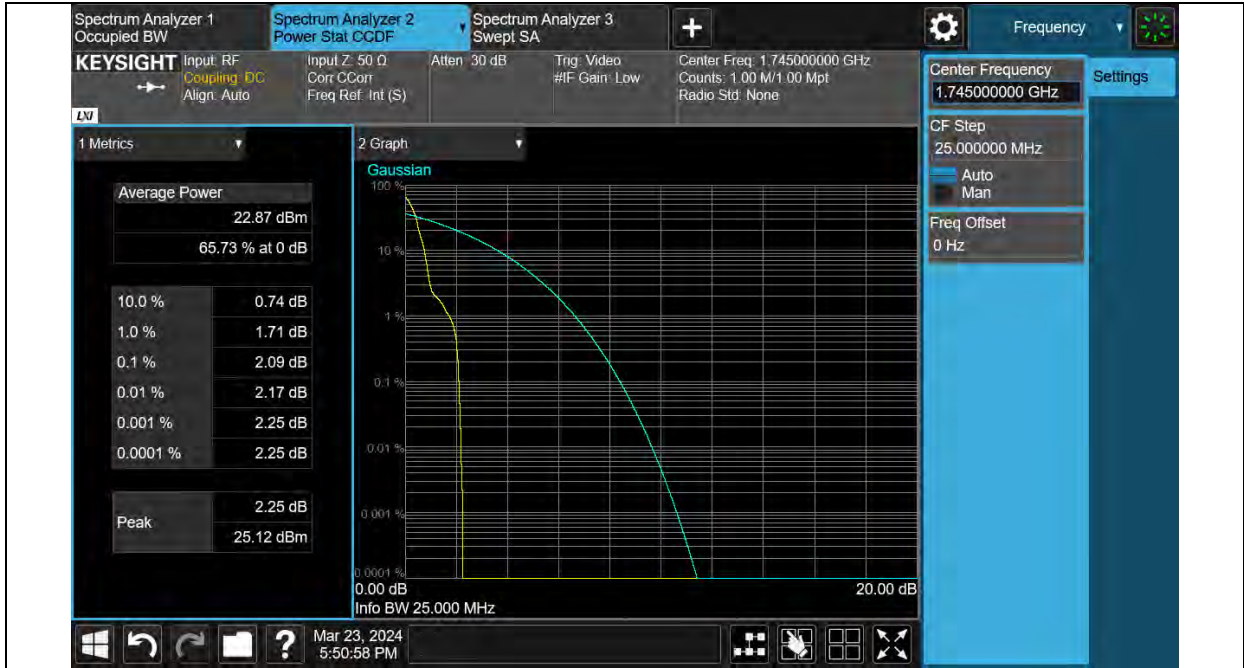
### Test Graphs



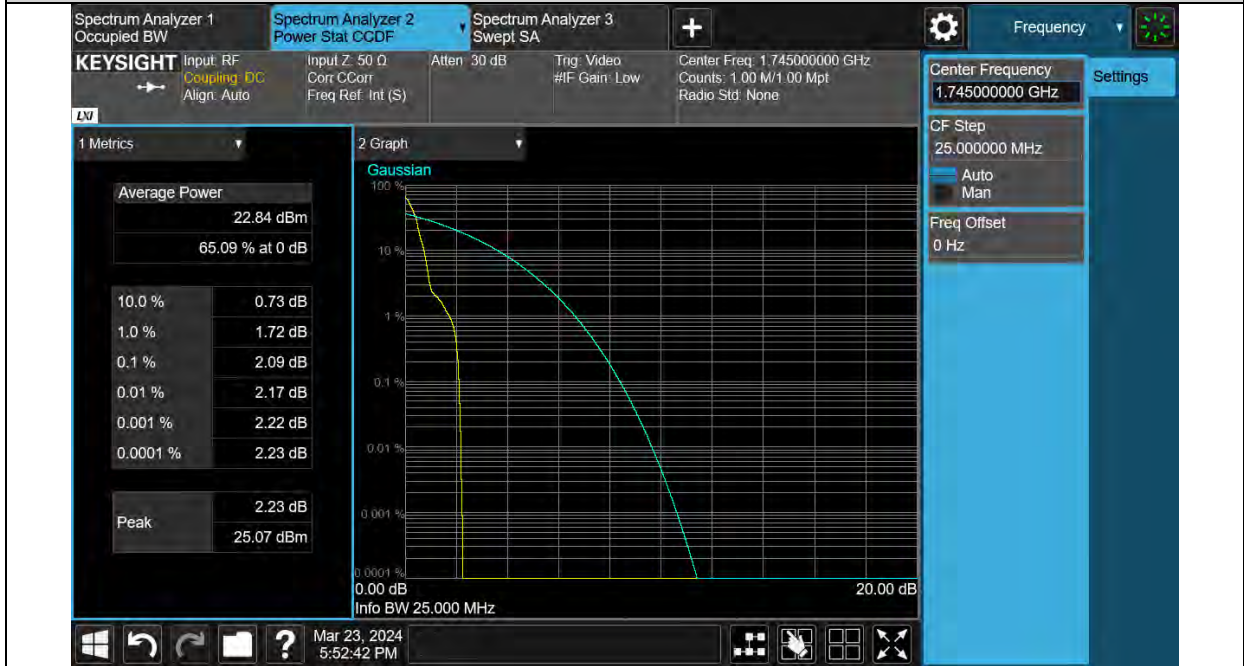


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-15KHz-132322





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

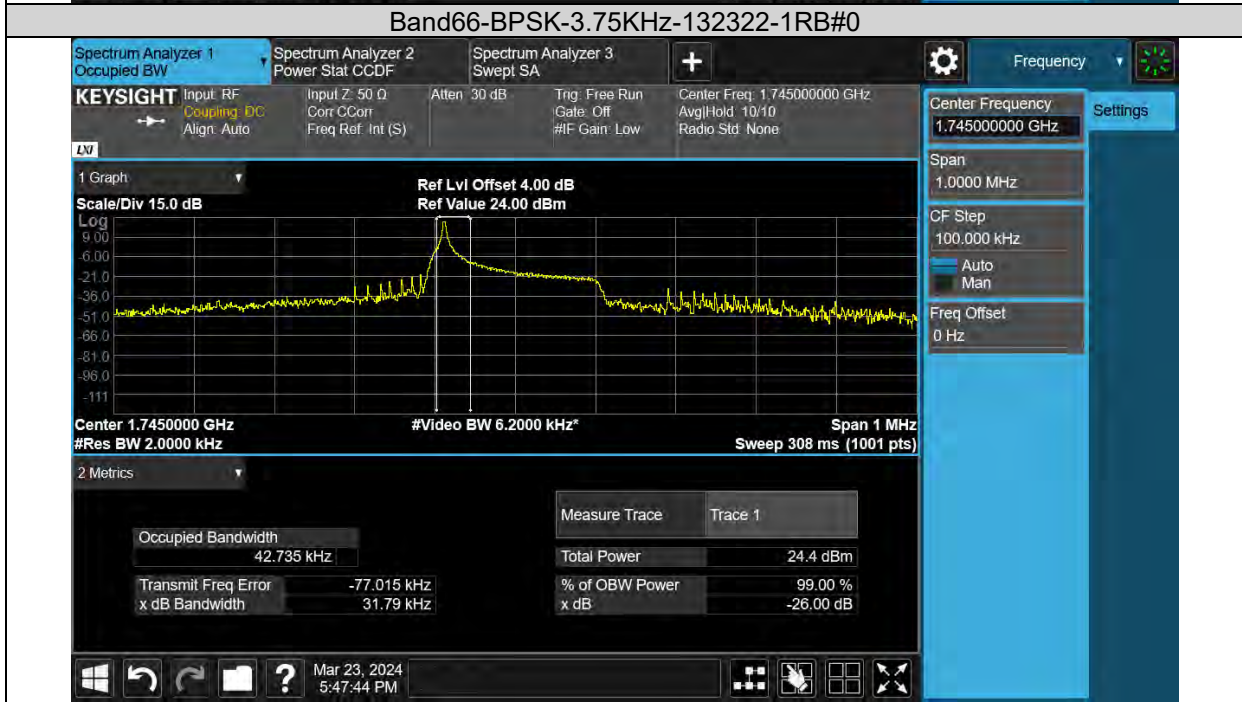
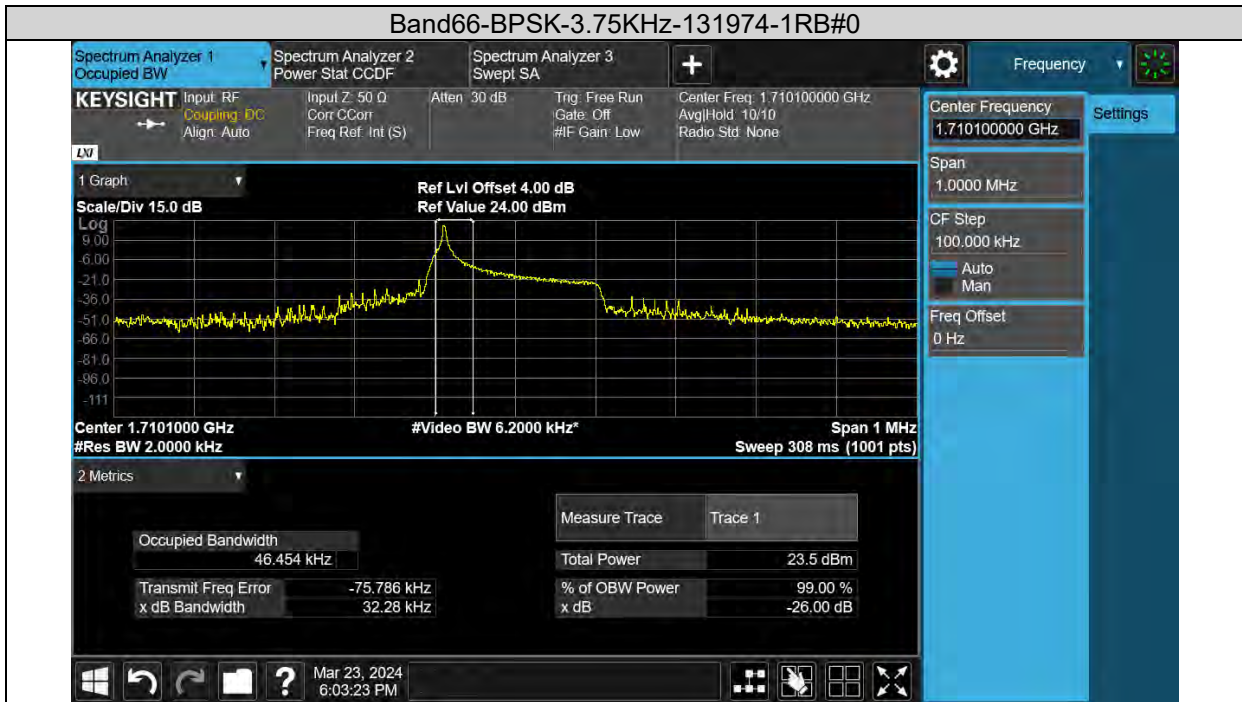
Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Occupied Bandwidth (KHz)	26dB Bandwidth (KHz)	Verdict
Band66	BPSK	3.75	131974	1RB#0	46.454	32.28	PASS
Band66	BPSK	3.75	132322	1RB#0	42.735	31.79	PASS
Band66	BPSK	3.75	132670	1RB#0	44.647	33.43	PASS
Band66	QPSK	3.75	131974	1RB#0	47.848	34.26	PASS
Band66	QPSK	3.75	132322	1RB#0	47.812	35.99	PASS
Band66	QPSK	3.75	132670	1RB#0	43.817	31.20	PASS
Band66	BPSK	15	131974	1RB#0	122.25	103.2	PASS
Band66	BPSK	15	132322	1RB#0	101.82	88.18	PASS
Band66	BPSK	15	132670	1RB#0	108.80	101.2	PASS
Band66	QPSK	15	131974	1RB#0	122.25	103.2	PASS
Band66	QPSK	15	132322	1RB#0	101.82	88.18	PASS
Band66	QPSK	15	132670	1RB#0	108.80	101.2	PASS
Band66	QPSK	15	131974	12RB#0	191.25	202.5	PASS
Band66	QPSK	15	132322	12RB#0	189.37	202.3	PASS
Band66	QPSK	15	132670	12RB#0	189.71	201.8	PASS





Test Report No.: W7L-240204W001RF04

### Test Graphs



**Band66-BPSK-3.75KHz-132670-1RB#0**

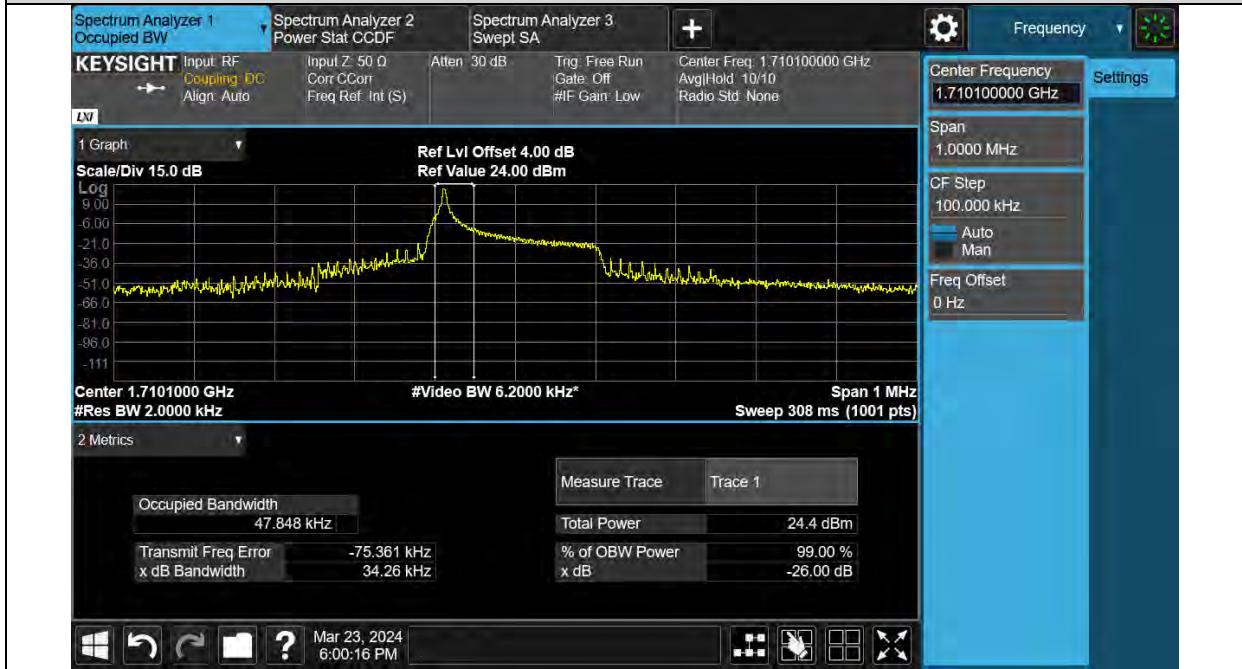


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-3.75KHz-131974-1RB#0

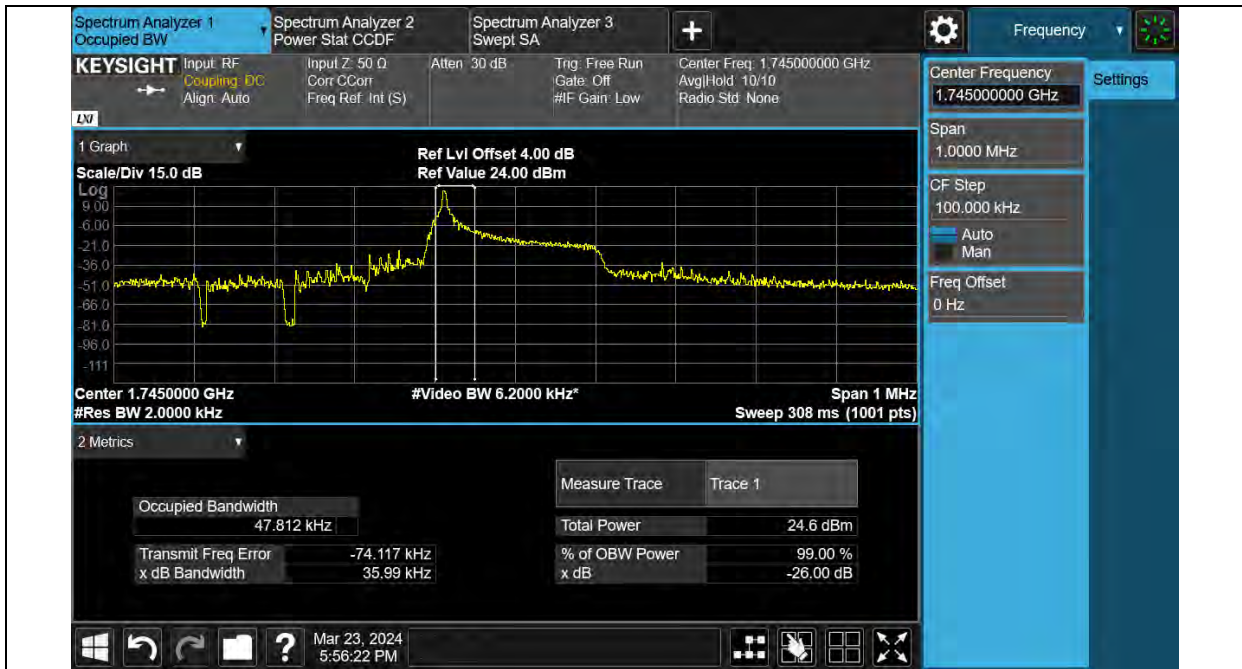


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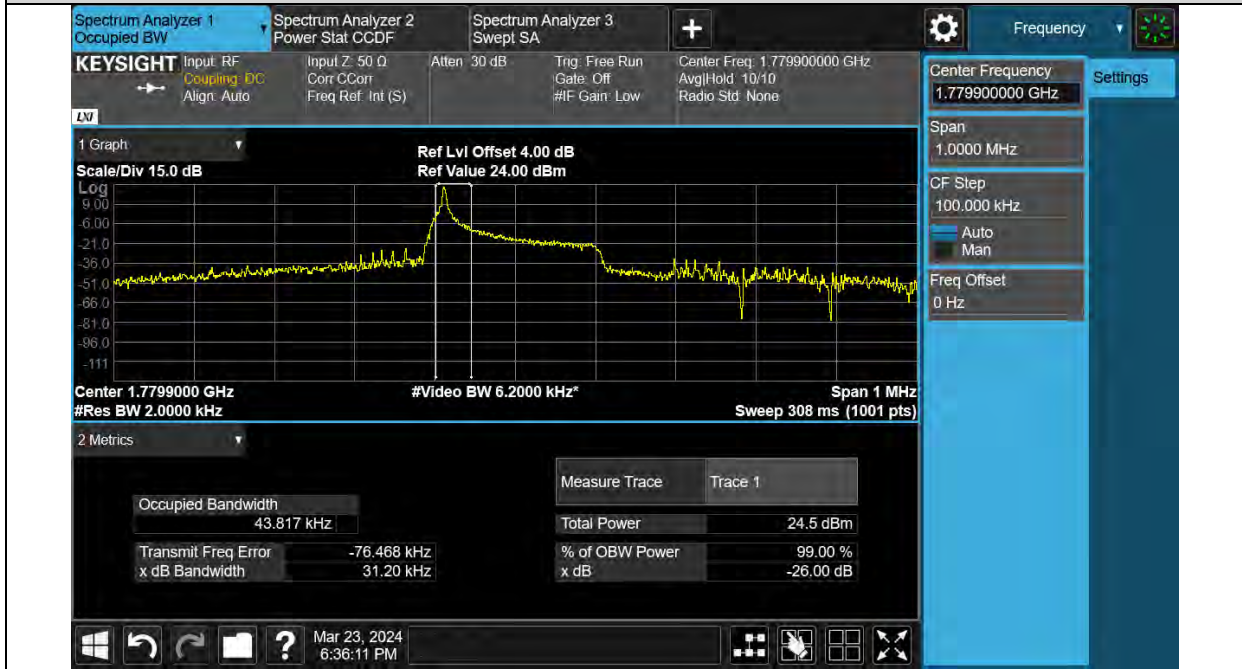


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-3.75KHz-132670-1RB#0

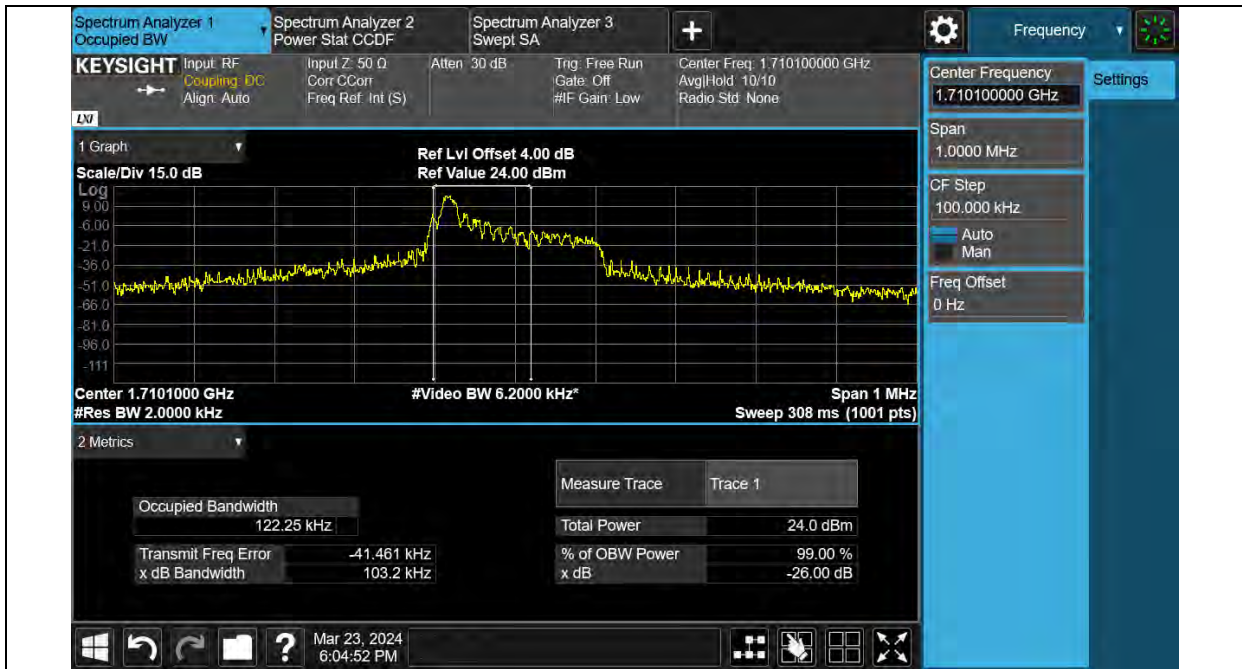


### Band66-BPSK-15KHz-131974-1RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-BPSK-15KHz-132322-1RB#0

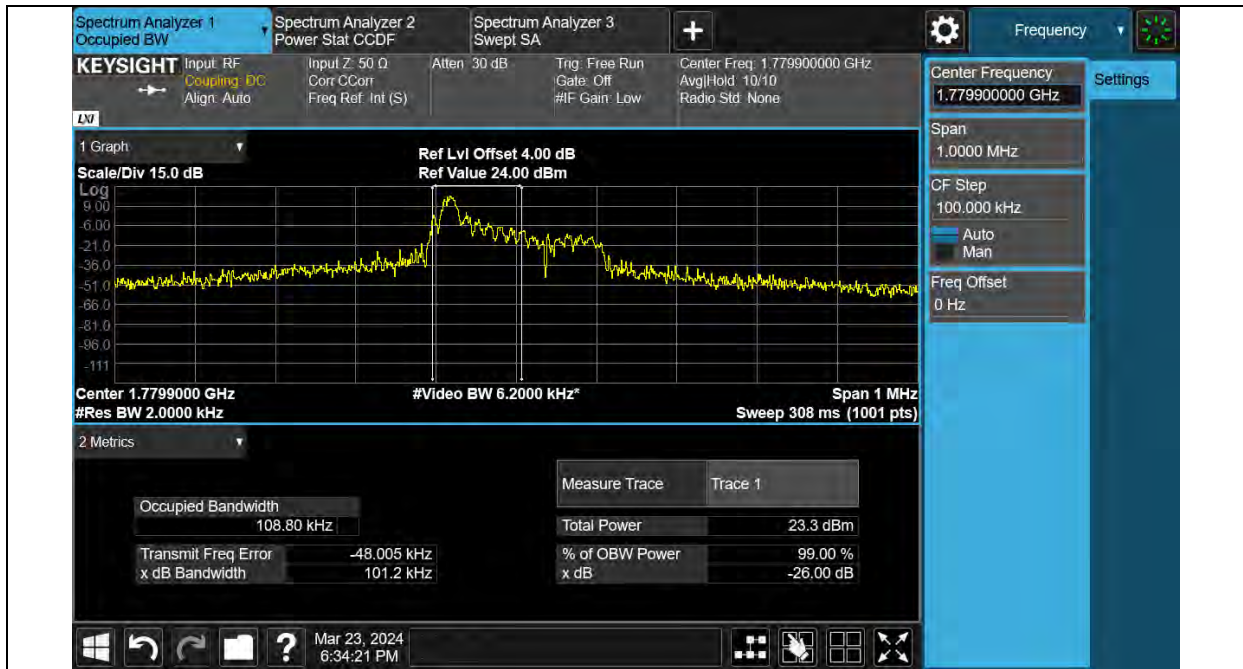


Band66-BPSK-15KHz-132670-1RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



#### Band66-QPSK-15KHz-131974-1RB#0



#### Band66-QPSK-15KHz-132322-1RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



#### Band66-QPSK-15KHz-132670-1RB#0

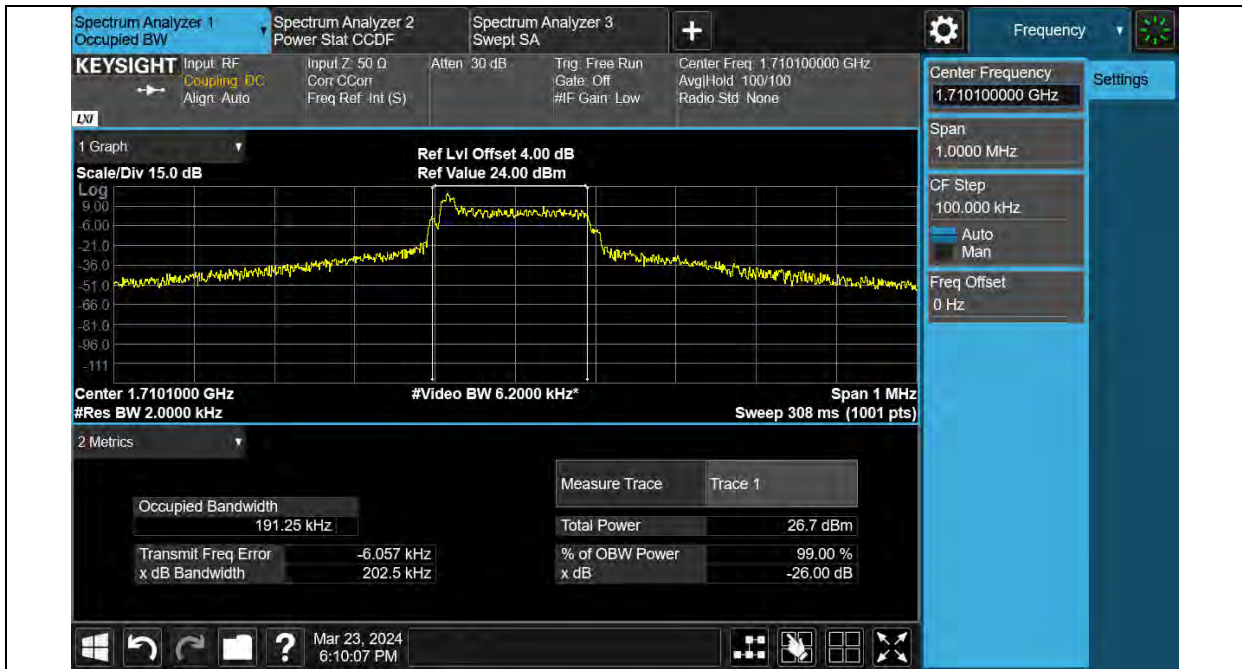


#### Band66-QPSK-15KHz-131974-12RB#0

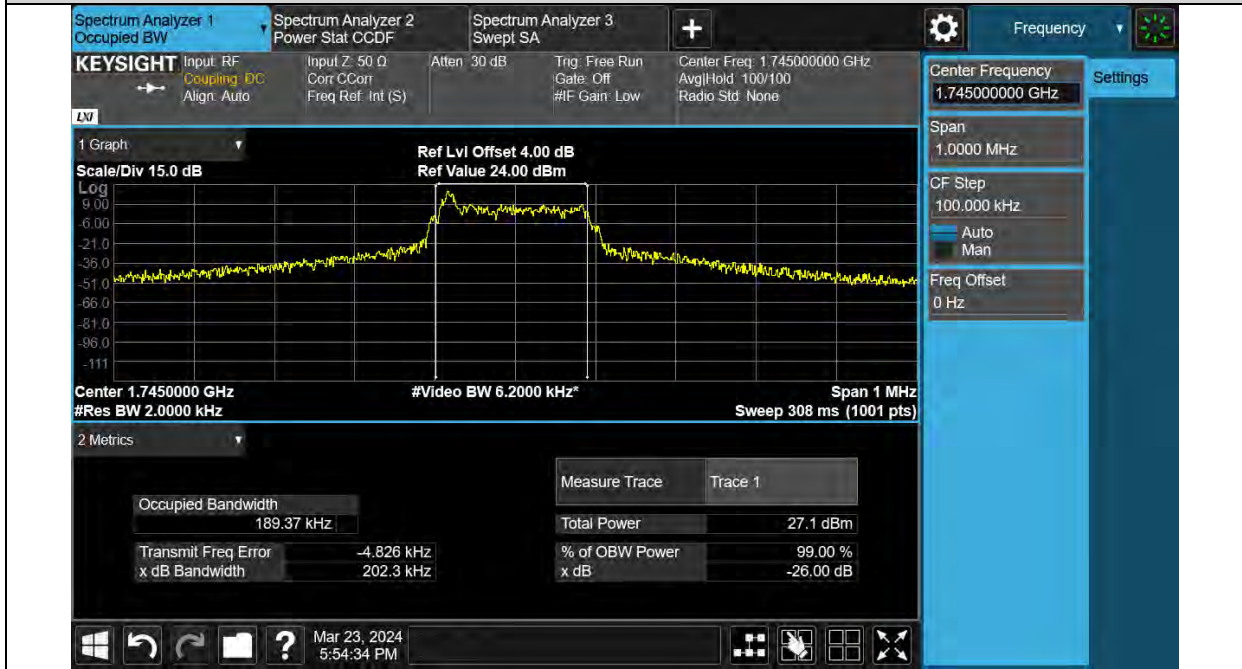


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-15KHz-132322-12RB#0



### Band66-QPSK-15KHz-132670-12RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04





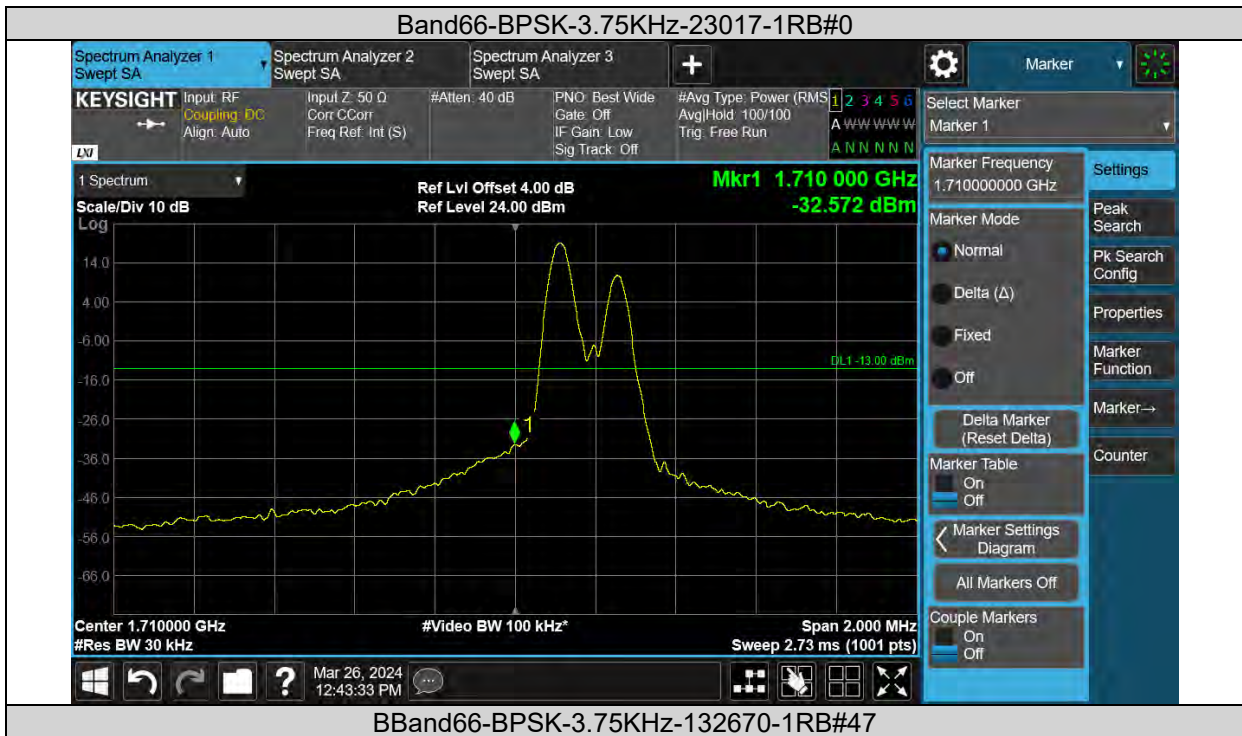


## BAND EDGE

### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Result(dBm)	Verdict
Band66	BPSK	3.75	131974	1RB#0	See Graph	PASS
Band66	BPSK	3.75	132670	1RB#47	See Graph	PASS
Band66	QPSK	3.75	131974	1RB#0	See Graph	PASS
Band66	QPSK	3.75	132670	1RB#47	See Graph	PASS
Band66	BPSK	15	131974	1RB#0	See Graph	PASS
Band66	BPSK	15	132670	1RB#11	See Graph	PASS
Band66	QPSK	15	131974	1RB#0	See Graph	PASS
Band66	QPSK	15	132670	1RB#11	See Graph	PASS
Band66	QPSK	15	131974	12RB#0	See Graph	PASS
Band66	QPSK	15	132670	12RB#0	See Graph	PASS

### Test Graphs

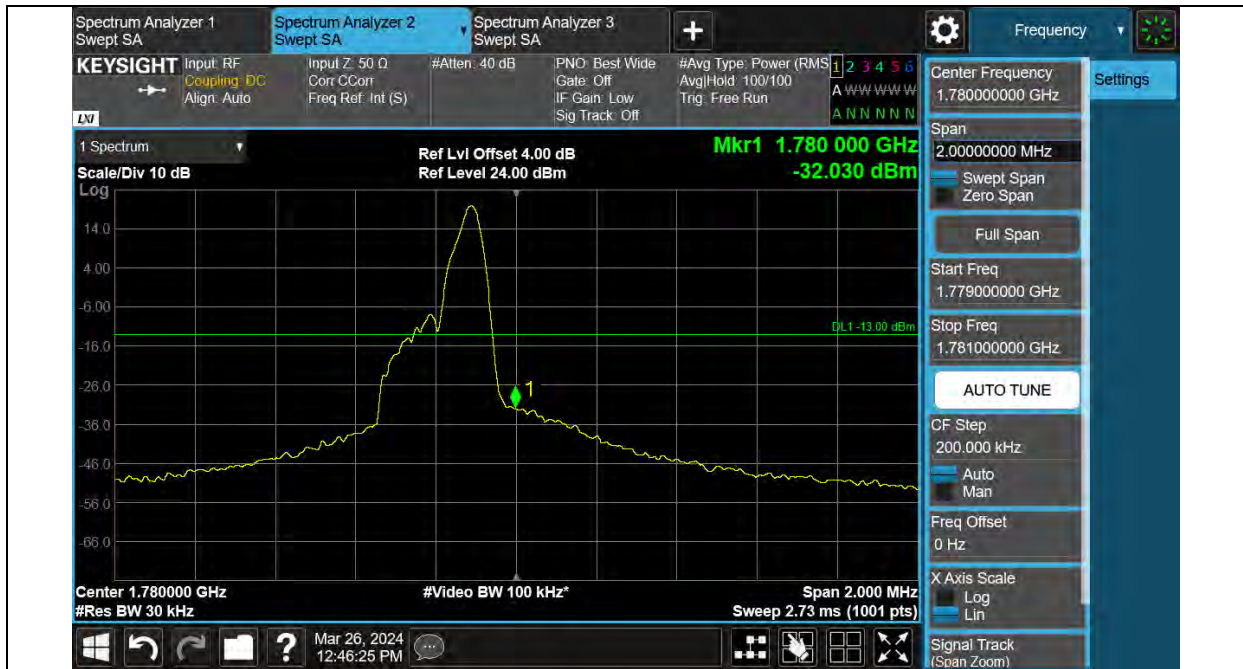


BBand66-BPSK-3.75kHz-132670-1RB#47

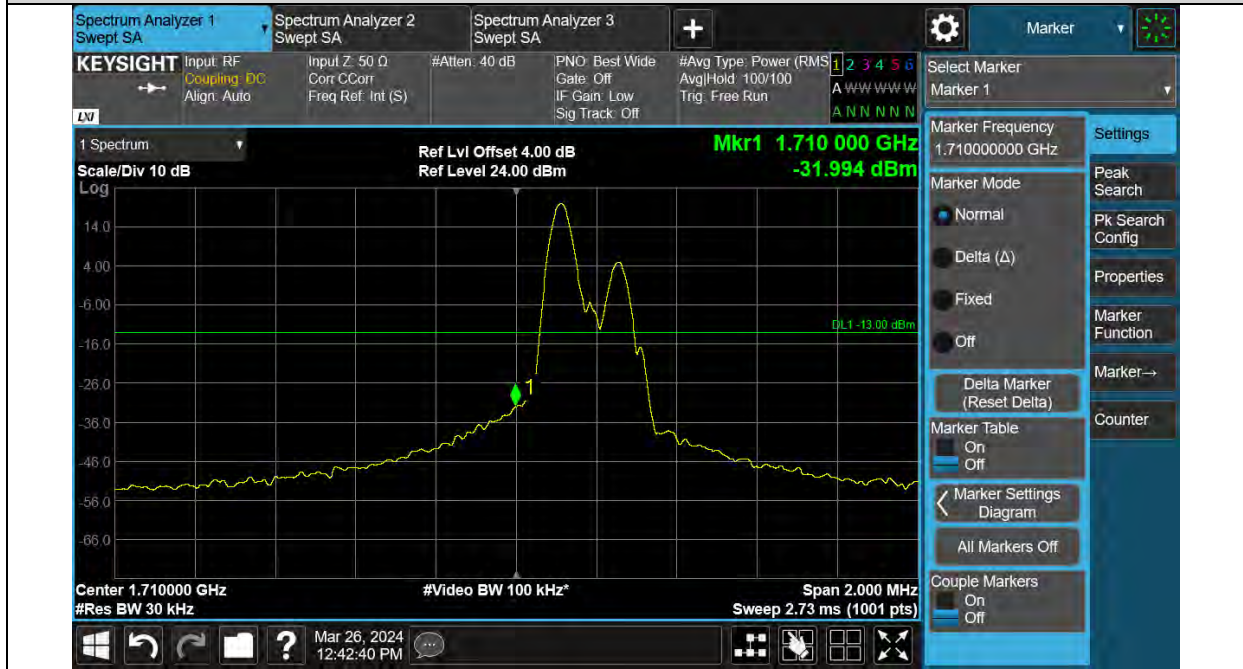


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-3.75KHz-23017-1RB#0

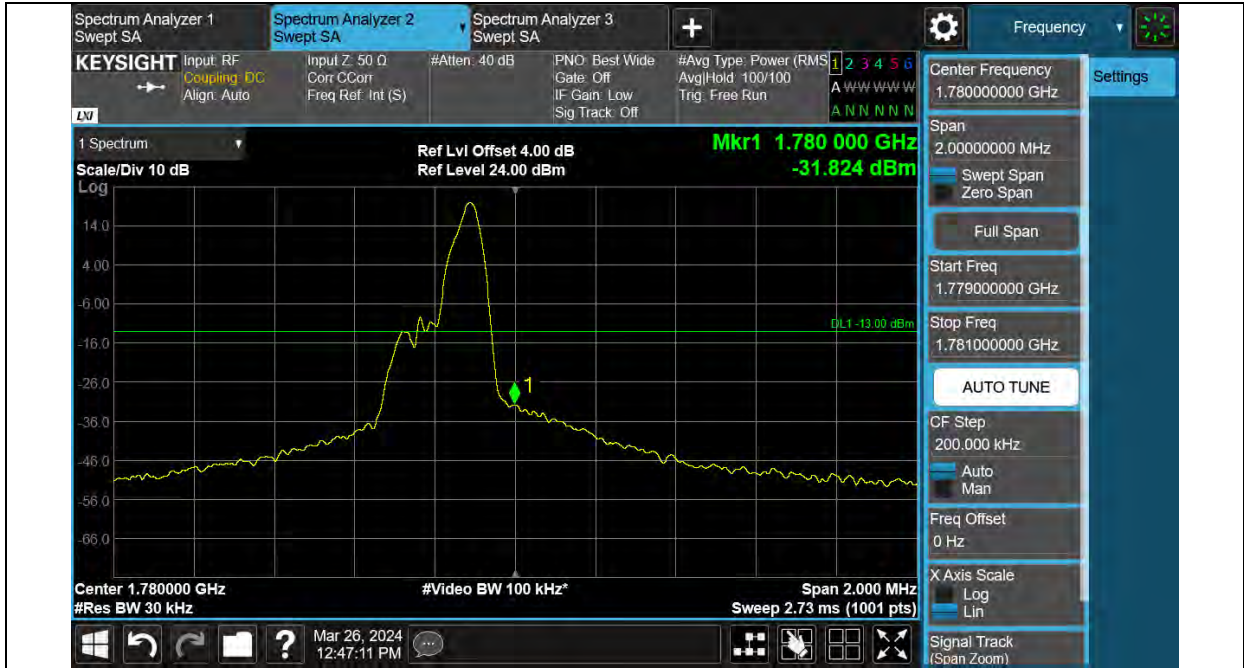


### BBand66-QPSK-3.75KHz-132670-1RB#47

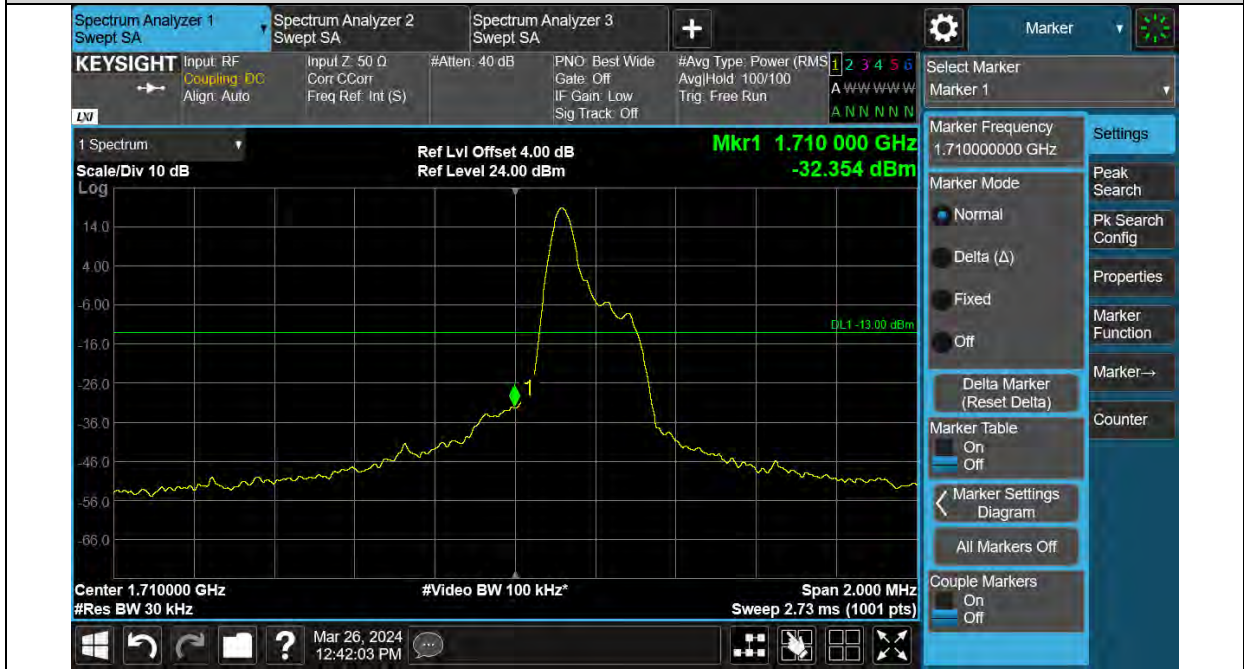


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-BPSK-15KHz-23017-1RB#0



### BBand66-BPSK-15KHz-132670-1RB#11

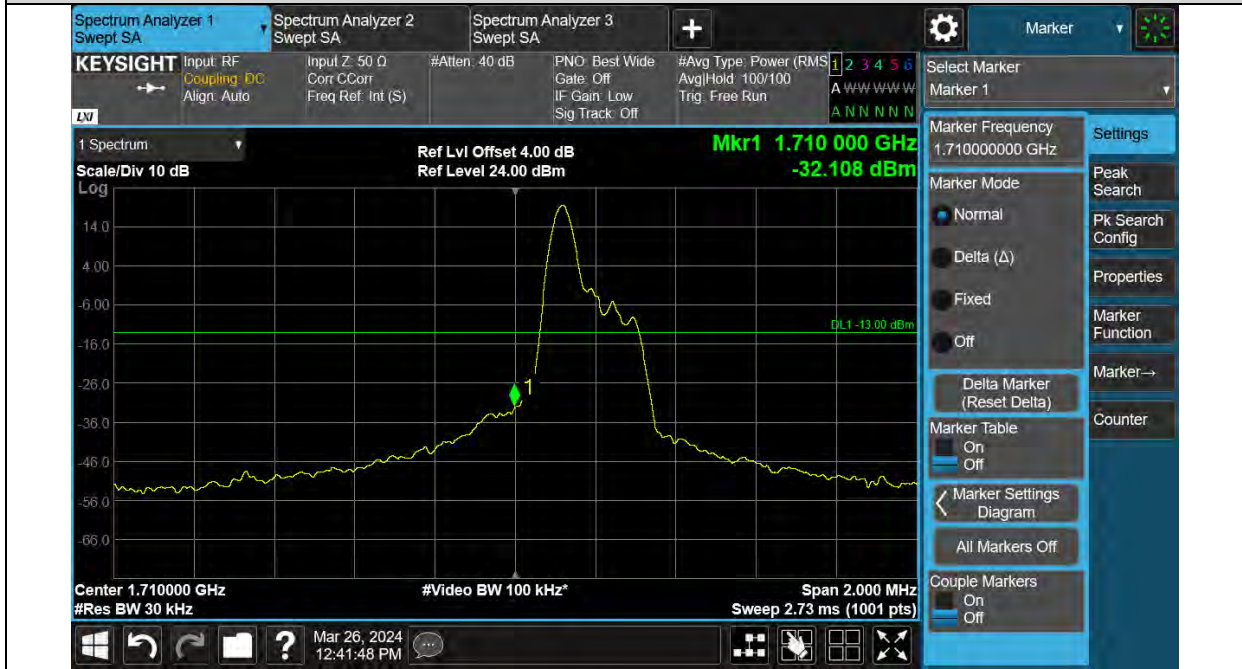


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



### Band66-QPSK-15KHz-23017-1RB#0



### BBand66-QPSK-15KHz-132670-1RB#11



BUREAU VERITAS

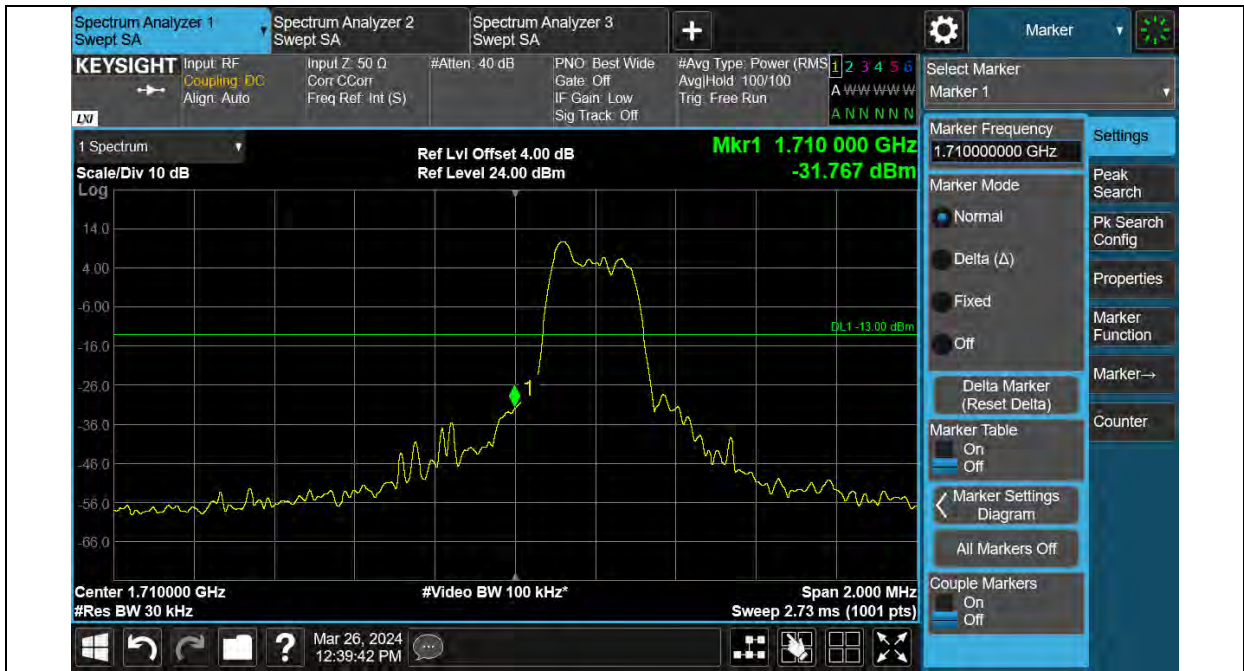
### Test Report No.: W7L-240204W001RF04





BUREAU VERITAS

Test Report No.: W7L-240204W001RF04





### CONDUCTED SPURIOUS EMISSION

#### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Frequency Range	Result (dBm)	Verdict
Band66	BPSK	3.75	131974	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	BPSK	3.75	132322	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	BPSK	3.75	132670	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	3.75	131974	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	3.75	132322	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	3.75	132670	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	BPSK	15	131974	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	BPSK	15	132322	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	BPSK	15	132670	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	131974	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	132322	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	132670	1RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	131974	12RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	132322	12RB#0	Range:30M~20000M	See Graph	PASS
Band66	QPSK	15	132670	12RB#0	Range:30M~20000M	See Graph	PASS



Test Report No.: W7L-240204W001RF04

### Test Graphs

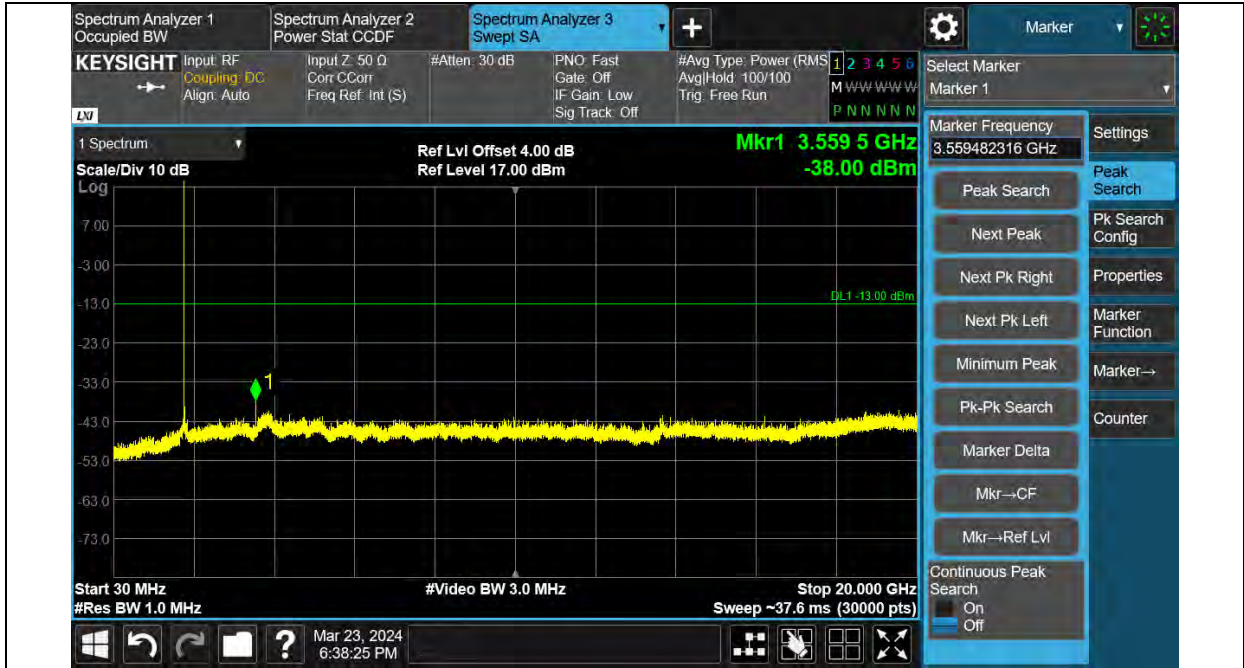




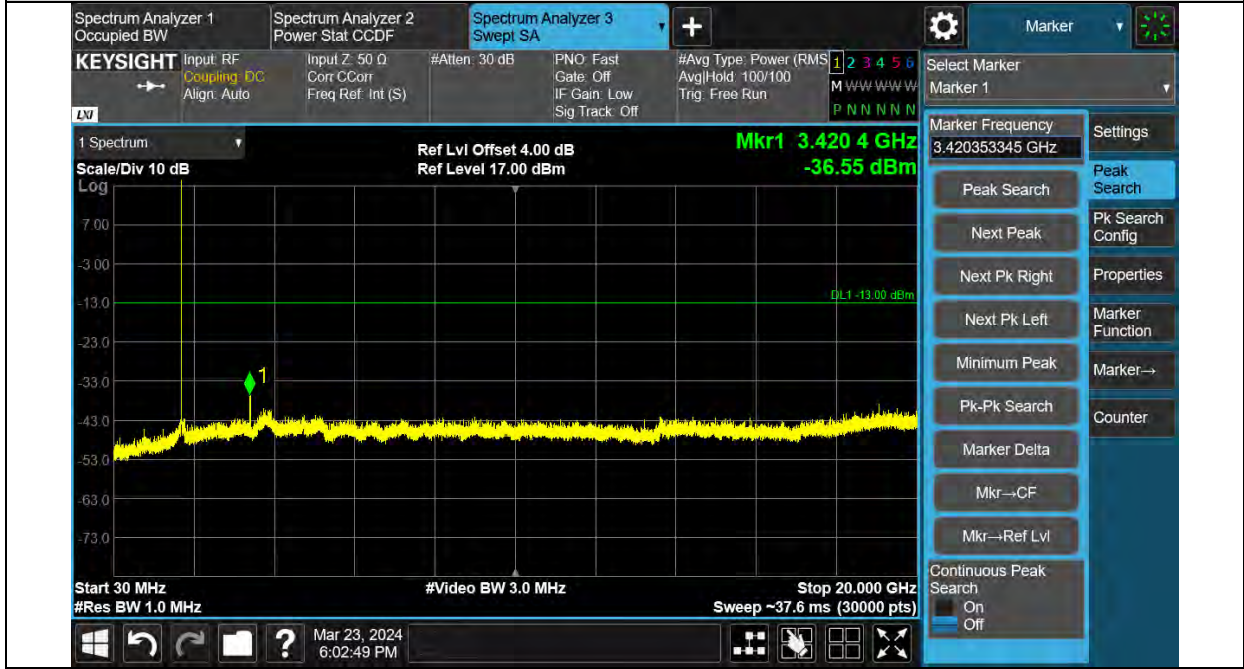


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-QPSK-3.75KHz-131974-1RB#0

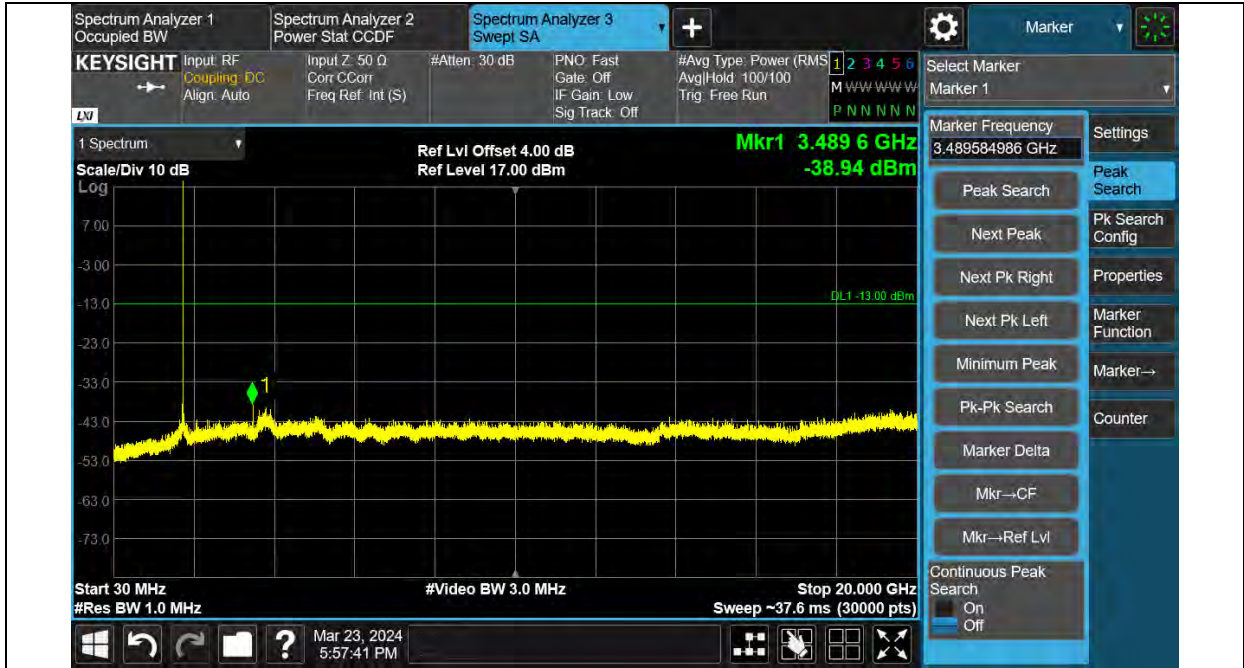


Band66-QPSK-3.75KHz-132322-1RB#0

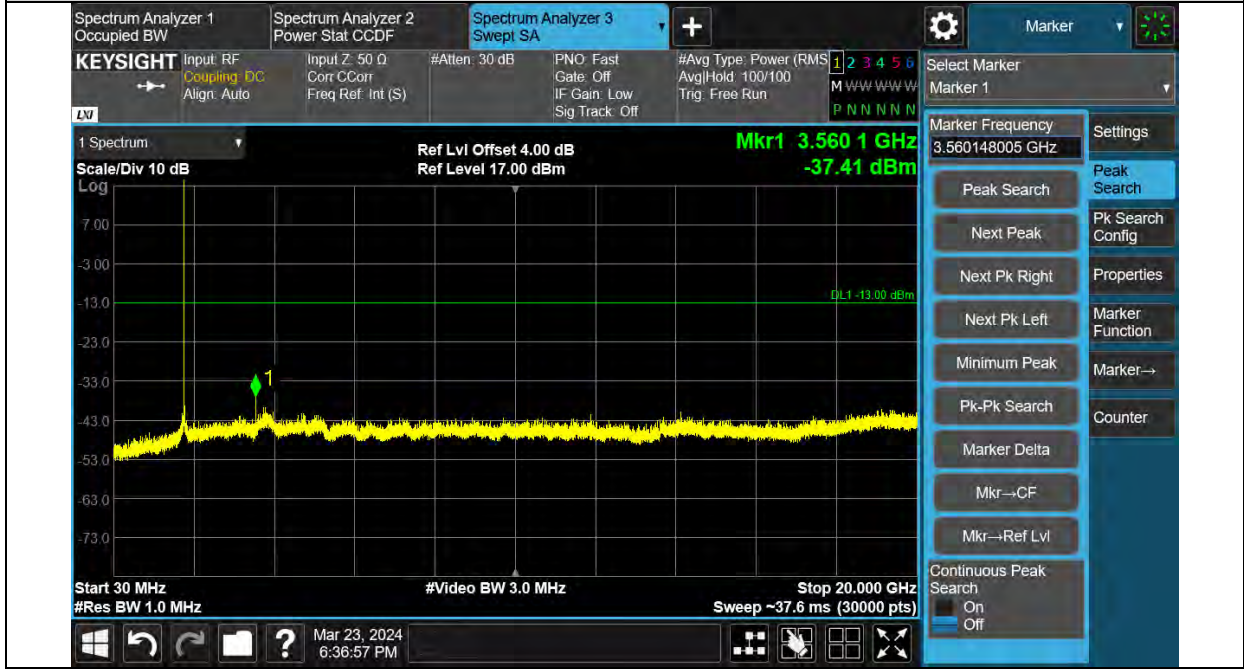


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-QPSK-3.75KHz-132670-1RB#0

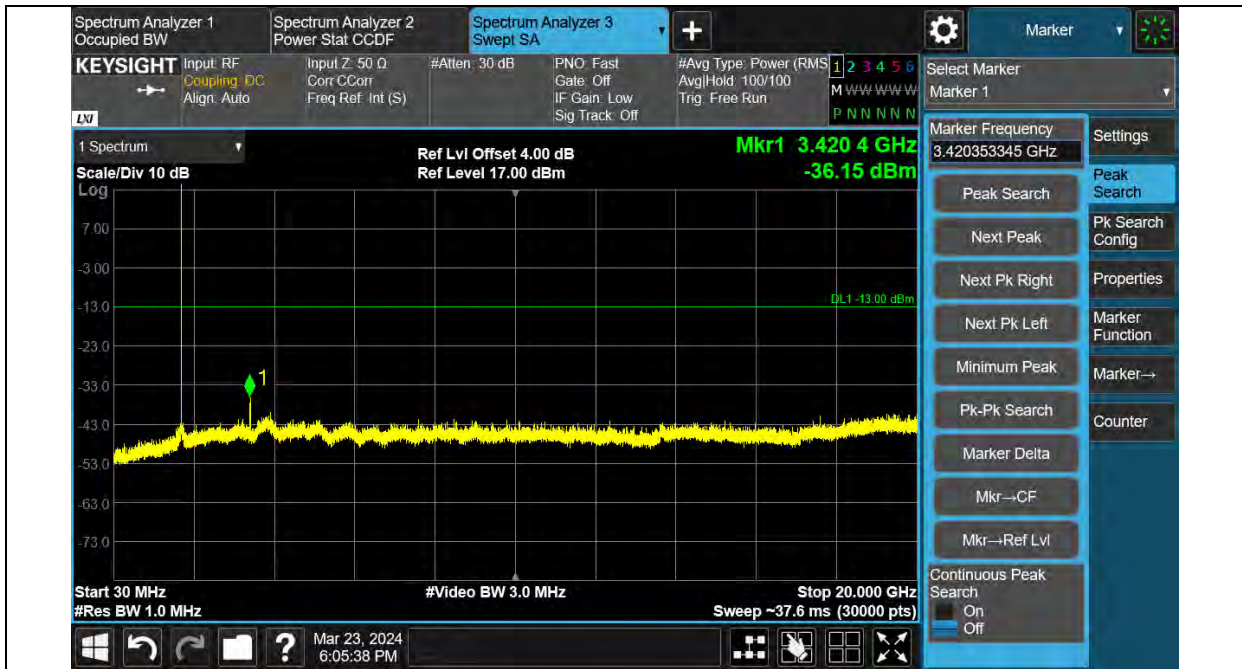


Band66-BPSK-15KHz-131974-1RB#0

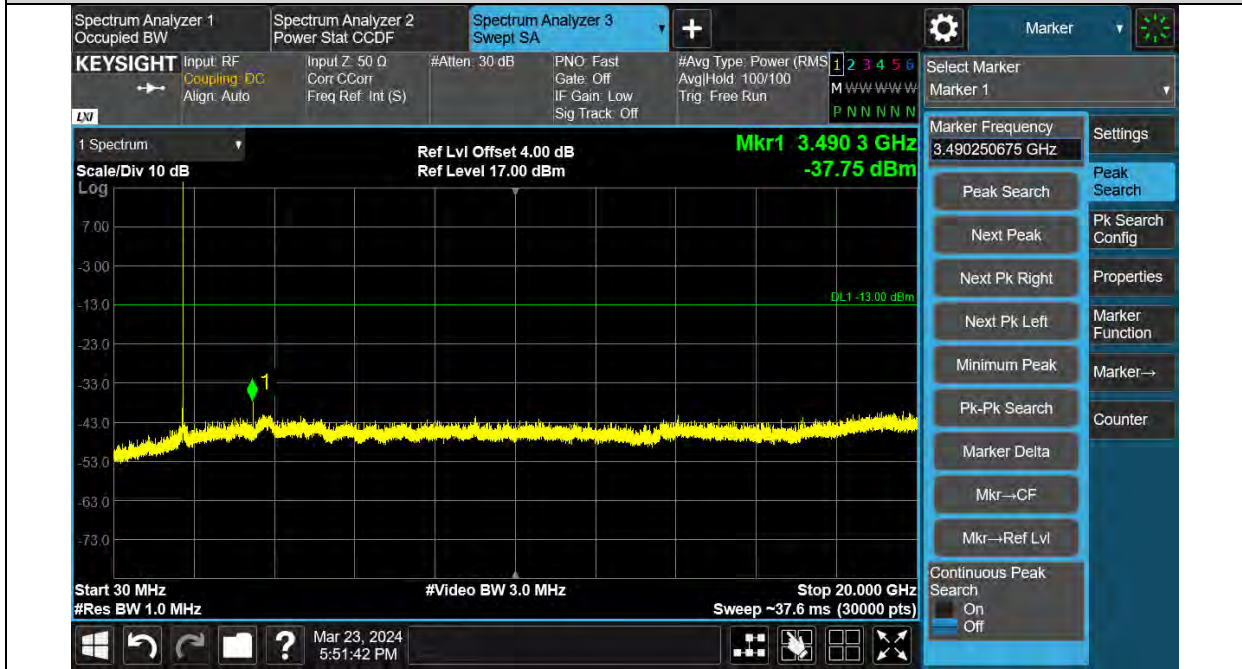


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-BPSK-15KHz-132322-1RB#0

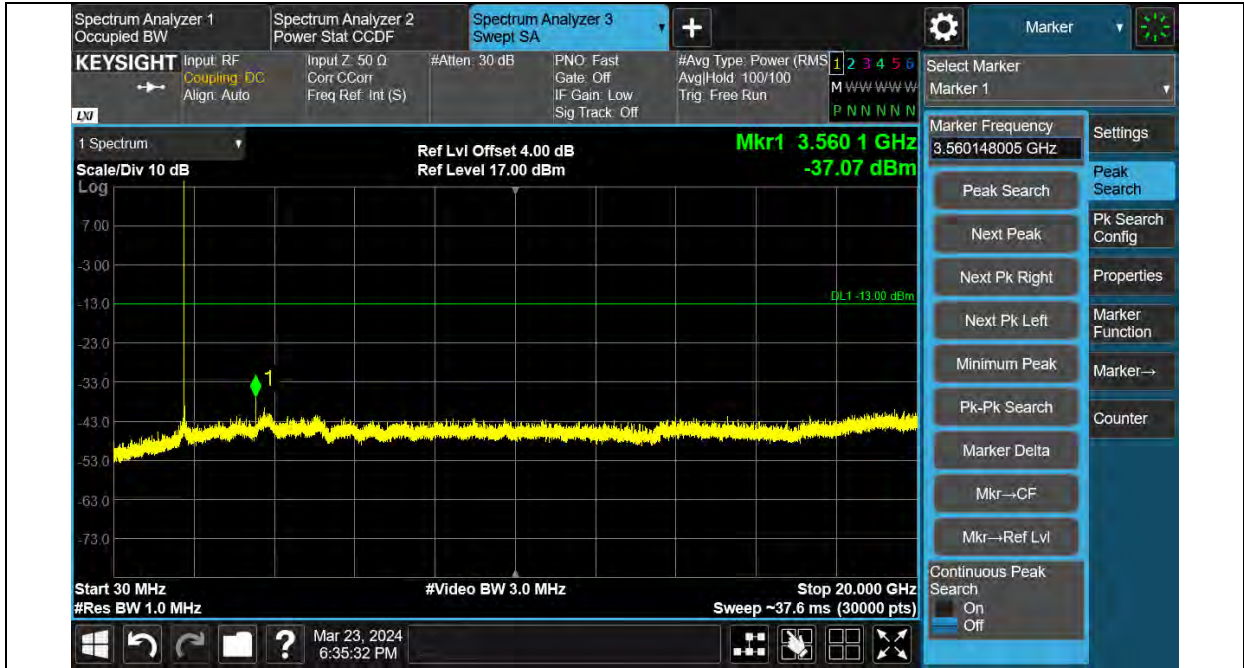


Band66-BPSK-15KHz-132670-1RB#0

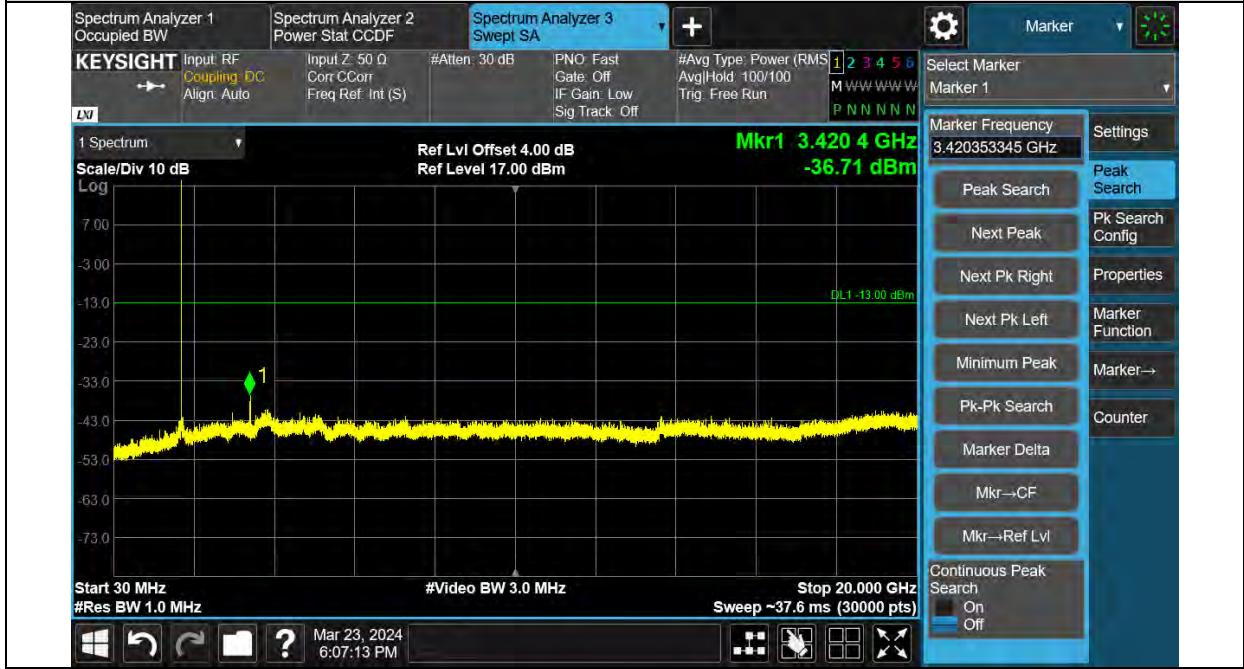


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-QPSK-15KHz-131974-1RB#0

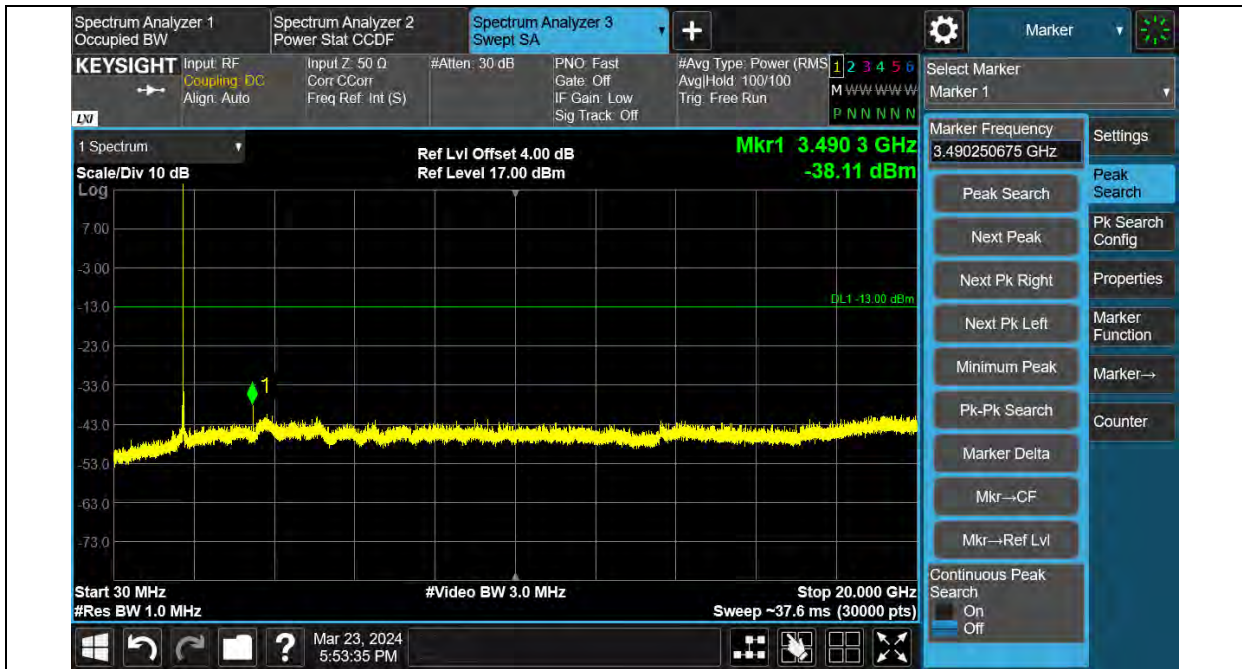


Band66-QPSK-15KHz-132322-1RB#0

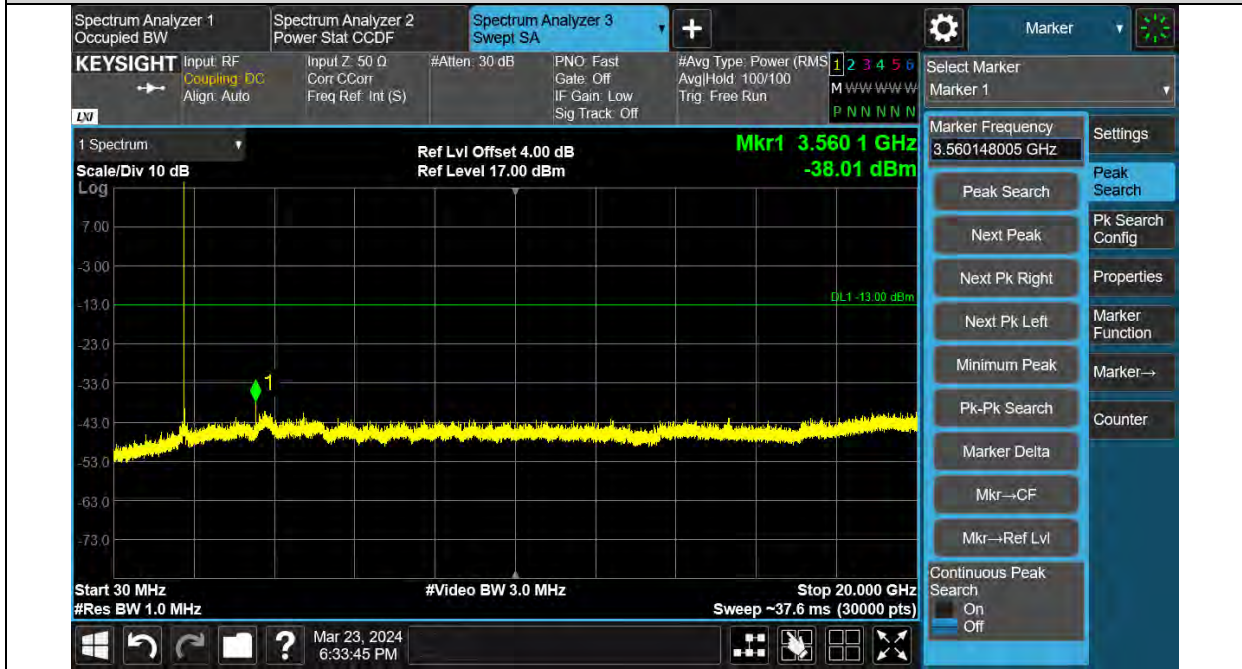


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF04



Band66-QPSK-15KHz-132670-1RB#0

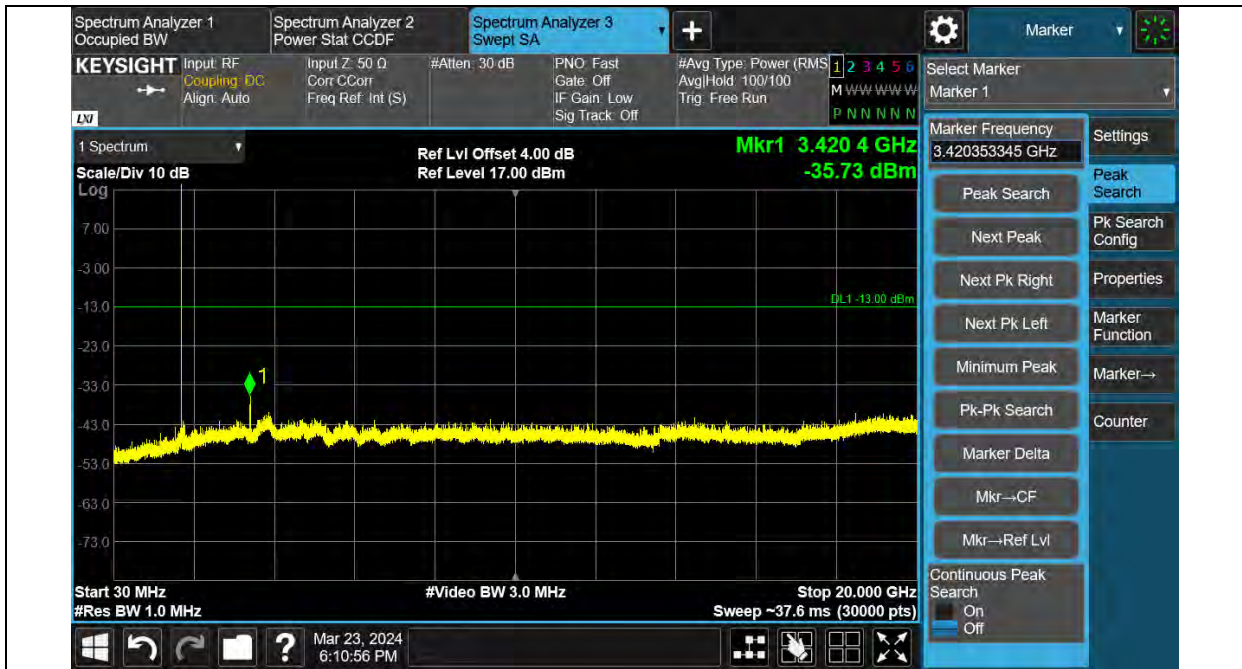


Band66-QPSK-15KHz-131974-12RB#0

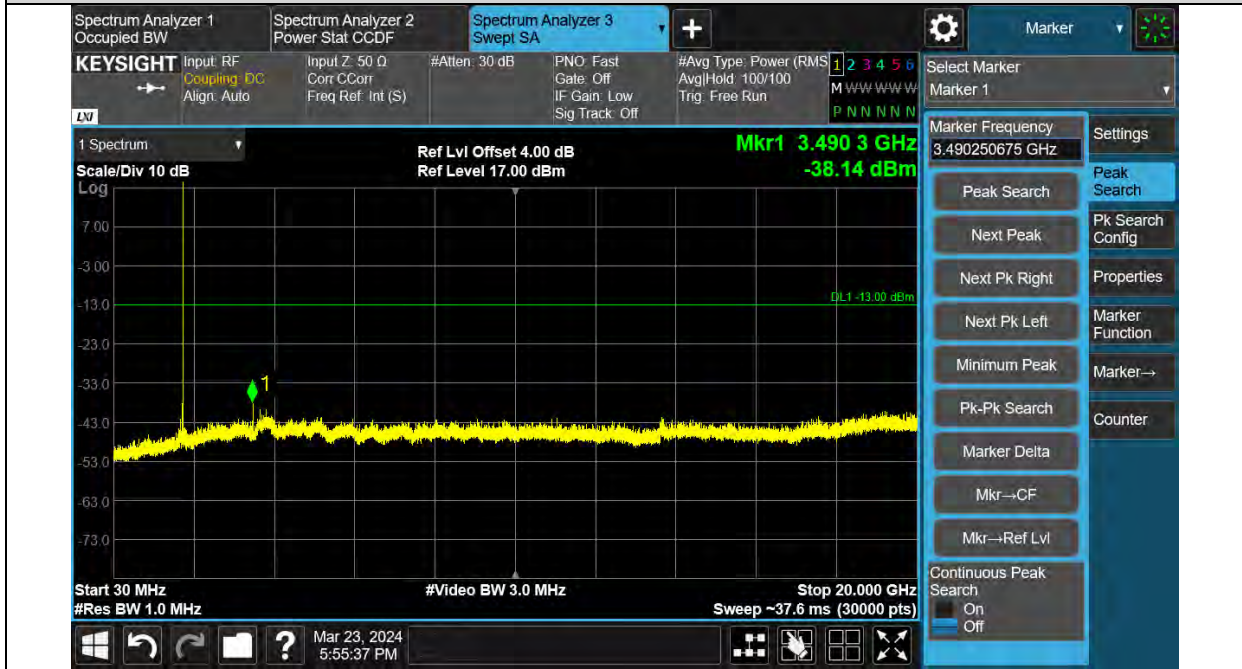


BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



Band66-QPSK-15KHz-132322-12RB#0

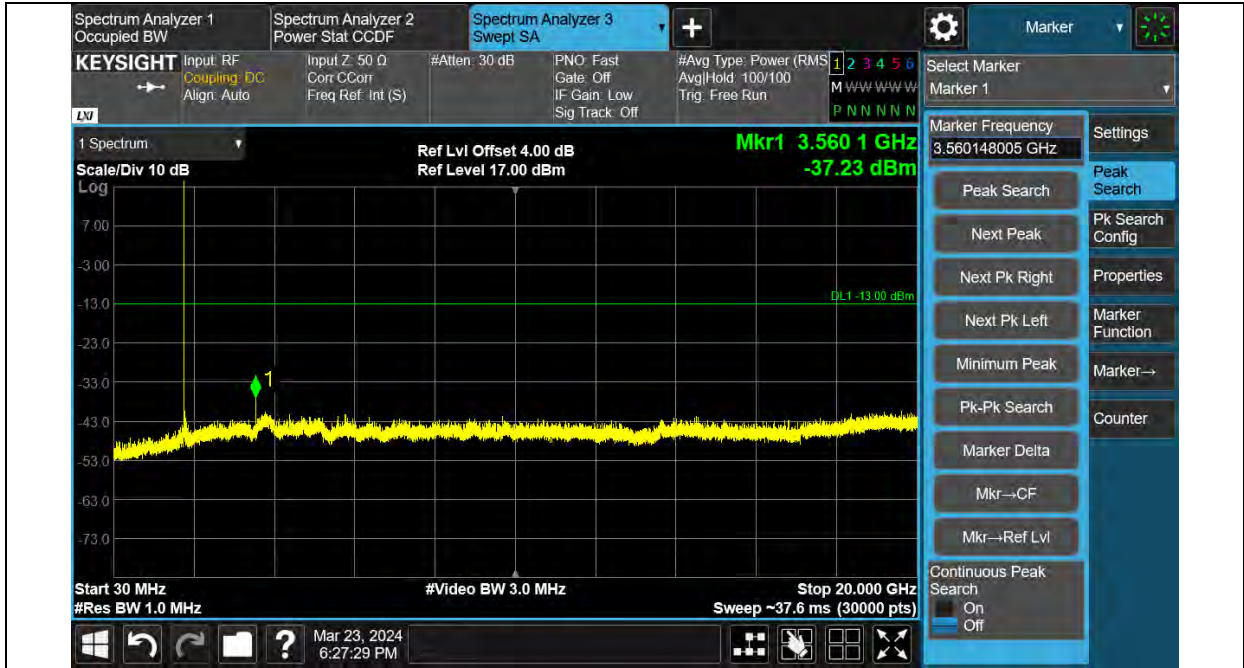


Band66-QPSK-15KHz-132670-12RB#0



BUREAU VERITAS

Test Report No.: W7L-240204W001RF04



## FREQUENCY STABILITY

### Test Result

Voltage								
Band	Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	QPSK	132322	VL	NT	11.4	0.006628	±2.5	PASS
Band66	QPSK	132322	VN	NT	33.8	0.019651	±2.5	PASS
Band66	QPSK	132322	VH	NT	-29.5	-0.017151	±2.5	PASS
Band66	BPSK	132322	VL	NT	-26.7	-0.015301	±2.5	PASS
Band66	BPSK	132322	VN	NT	-17.8	-0.010201	±2.5	PASS
Band66	BPSK	132322	VH	NT	-28.7	-0.016447	±2.5	PASS

Temperature								
Band	Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	QPSK	132322	NV	-30	13.5	0.007849	±2.5	PASS
Band66	QPSK	132322	NV	-20	-5.3	-0.003081	±2.5	PASS
Band66	QPSK	132322	NV	-10	22.3	0.012965	±2.5	PASS
Band66	QPSK	132322	NV	0	-32	-0.018605	±2.5	PASS
Band66	QPSK	132322	NV	10	-5.6	-0.003256	±2.5	PASS
Band66	QPSK	132322	NV	20	16.7	0.009709	±2.5	PASS
Band66	QPSK	132322	NV	30	4.9	0.002849	±2.5	PASS
Band66	QPSK	132322	NV	40	-7.3	-0.004244	±2.5	PASS
Band66	QPSK	132322	NV	50	5.7	0.003314	±2.5	PASS
Band66	BPSK	132322	NV	-30	3.4	0.001948	±2.5	PASS
Band66	BPSK	132322	NV	-20	8.5	0.004871	±2.5	PASS
Band66	BPSK	132322	NV	-10	-4.4	-0.002521	±2.5	PASS
Band66	BPSK	132322	NV	0	2.6	0.001490	±2.5	PASS
Band66	BPSK	132322	NV	10	15.9	0.009112	±2.5	PASS
Band66	BPSK	132322	NV	20	-25.6	-0.014670	±2.5	PASS
Band66	BPSK	132322	NV	30	-11.1	-0.006361	±2.5	PASS
Band66	BPSK	132322	NV	40	-25.9	-0.014842	±2.5	PASS
Band66	BPSK	132322	NV	50	-15.3	-0.008768	±2.5	PASS

---END---