

### 8.4 Channel Edge

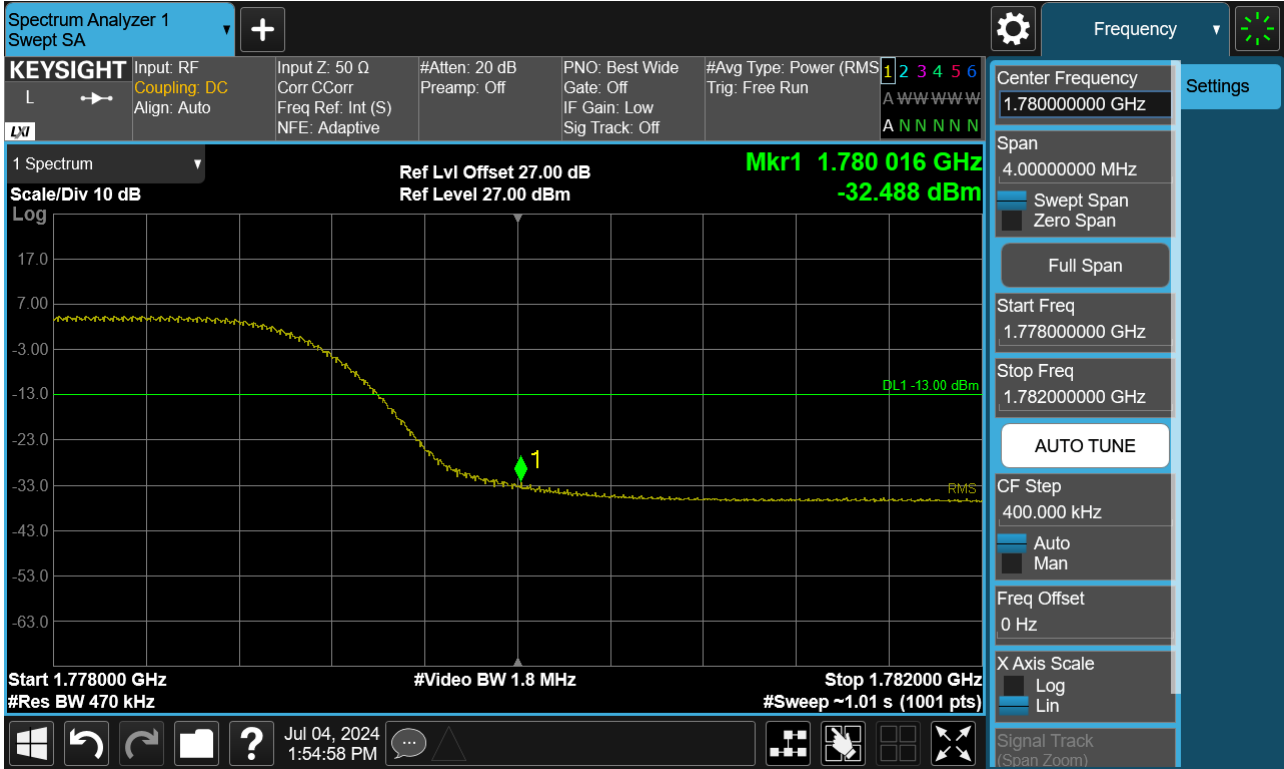
Highest Channel\_PCC 5 MHz Ch132455 RB1 Offset0 SCC 20 MHz Ch132572 RB1 Offset99(1)



Highest Channel\_PCC 5 MHz Ch132455 RB1 Offset0 SCC 20 MHz Ch132572 RB1 Offset99(2)



Highest Channel\_PCC 5 MHz Ch132455 RB1 Offset24 SCC 20 MHz Ch132572 RB1 Offset0(1)



Highest Channel\_PCC 5 MHz Ch132455 RB1 Offset24 SCC 20 MHz Ch132572 RB1 Offset0(2)



Highest Channel\_PCC 5 MHz Ch132455 RB25 Offset0 SCC 20 MHz Ch132572 RB100 Offset0(1)



Highest Channel\_PCC 5 MHz Ch132455 RB25 Offset0 SCC 20 MHz Ch132572 RB100 Offset0(2)



Lowest Channel\_PCC 20 MHz Ch132072 RB1 Offset0 SCC 15 MHz Ch132243 RB1 Offset74(1)

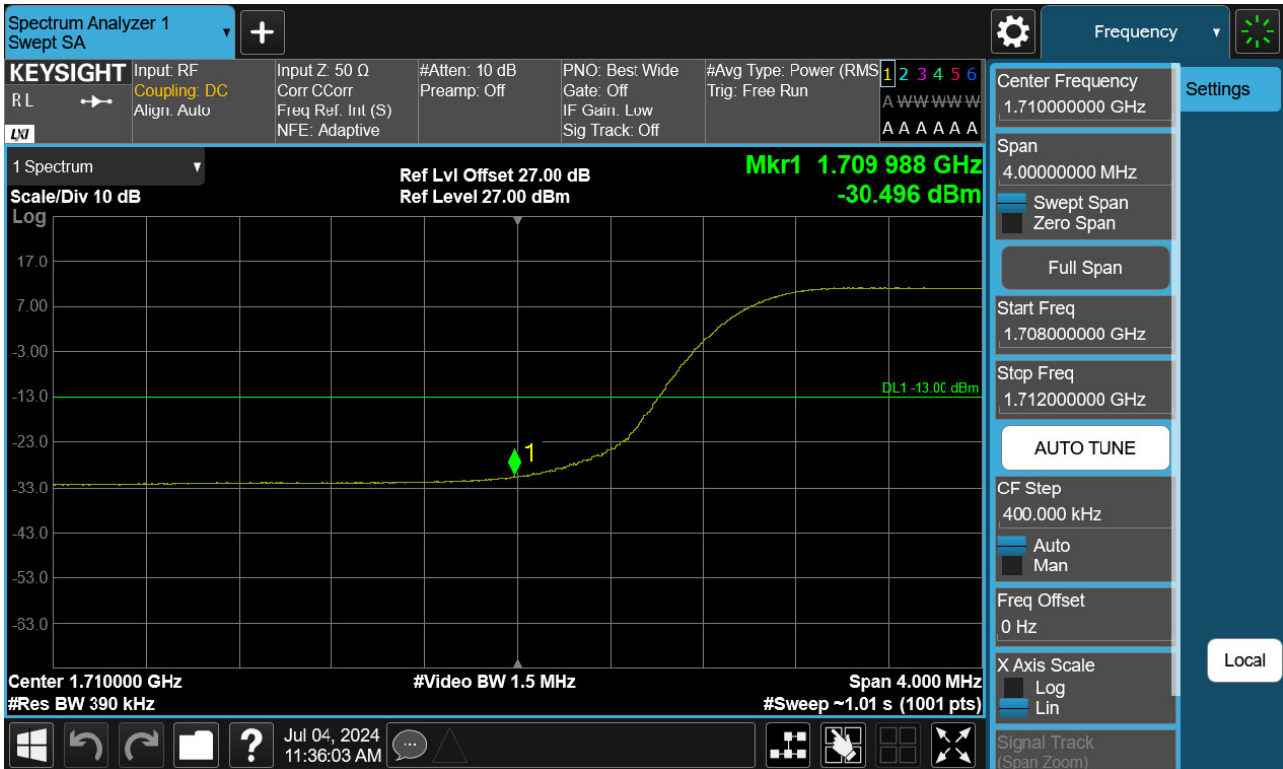


Lowest Channel\_PCC 20 MHz Ch132072 RB1 Offset0 SCC 15 MHz Ch132243 RB1 Offset74(2)





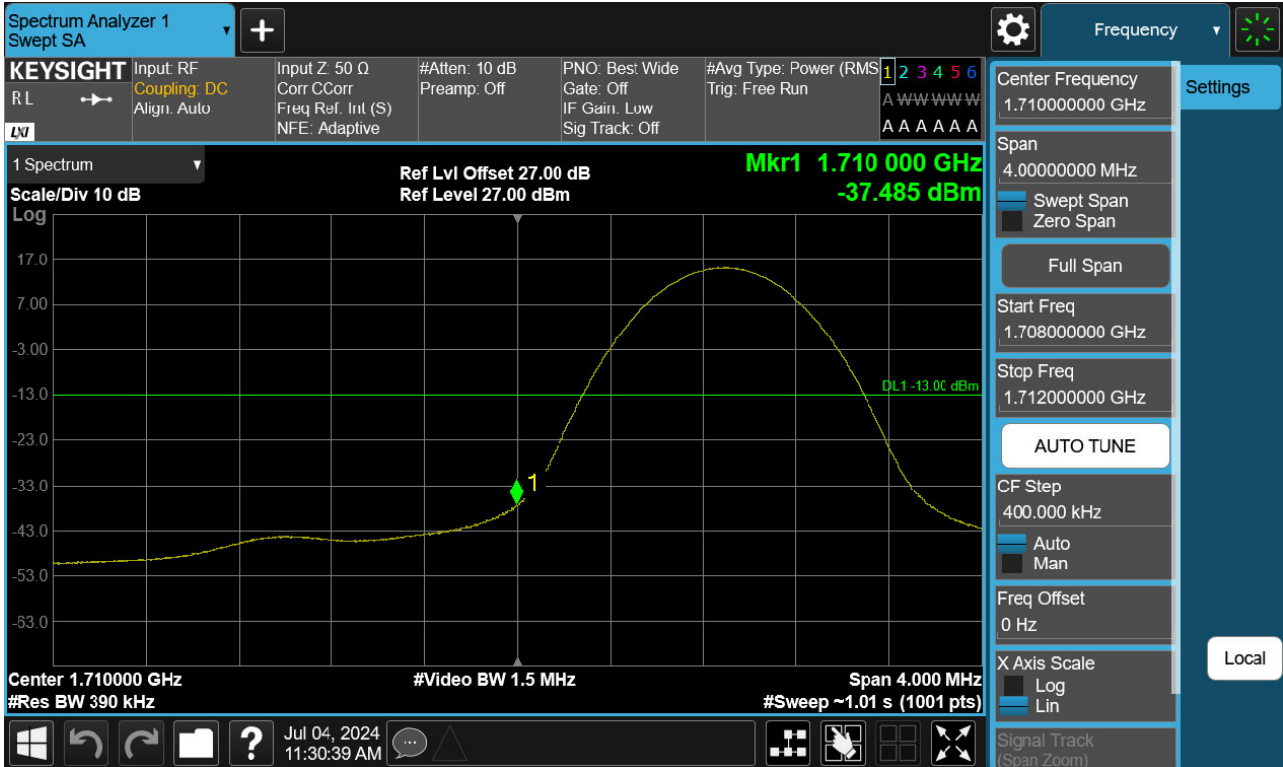
Lowest Channel\_PCC 20 MHz Ch132072 RB1 Offset99 SCC 15 MHz Ch132243 RB1 Offset0(1)



Lowest Channel\_PCC 20 MHz Ch132072 RB1 Offset99 SCC 15 MHz Ch132243 RB1 Offset0(2)



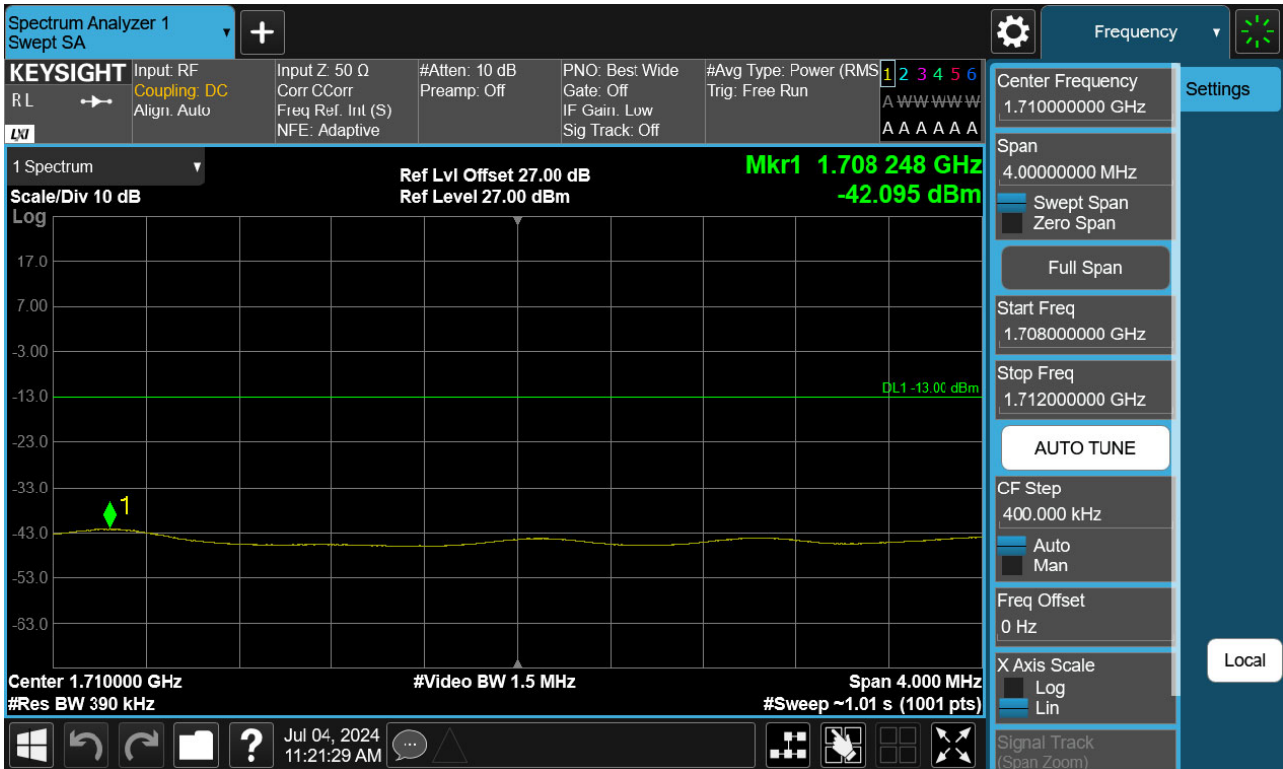
Lowest Channel\_PCC 20 MHz Ch132072 RB100 Offset0 SCC 20 MHz Ch132270 RB100 Offset0(1)



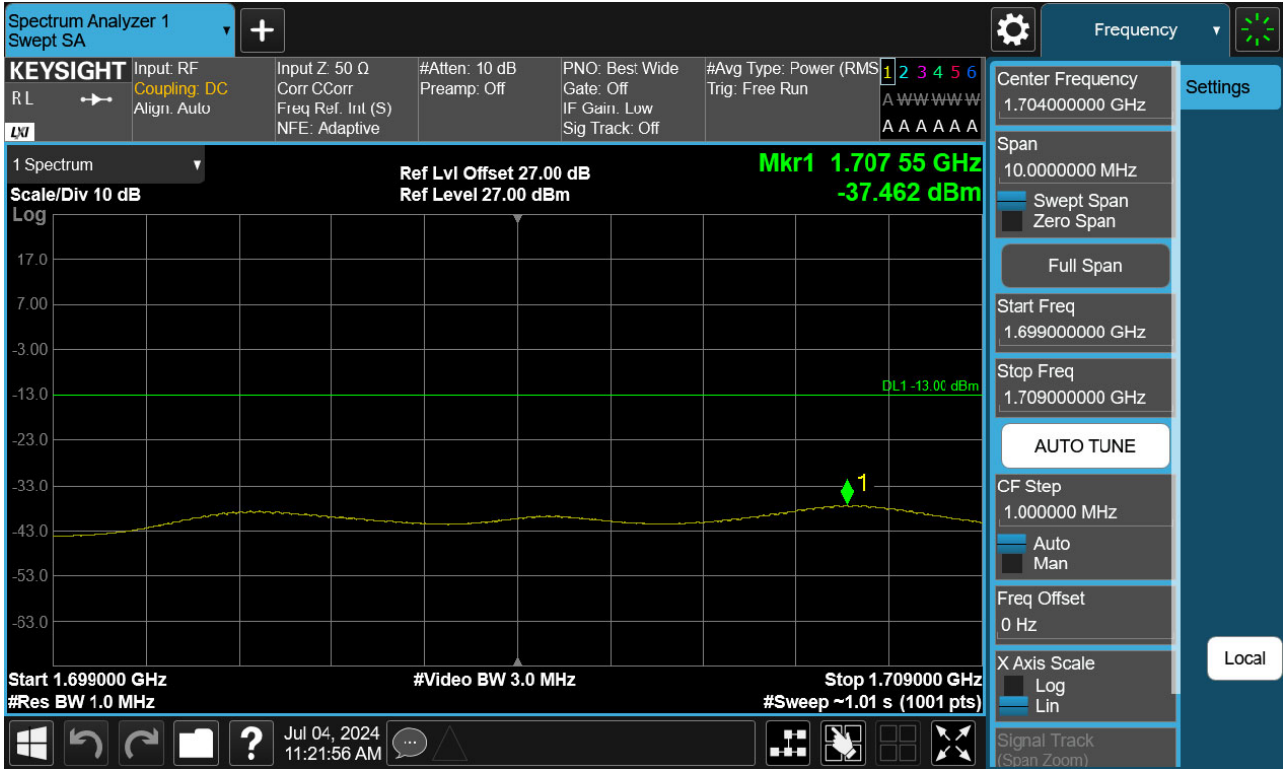
Lowest Channel\_PCC 20 MHz Ch132072 RB100 Offset0 SCC 20 MHz Ch132270 RB100 Offset0(2)



Lowest Channel\_PCC 20 MHz Ch132323 RB100 Offset0 SCC 20 MHz Ch132521 RB100 Offset0(1)



Lowest Channel\_PCC 20 MHz Ch132323 RB100 Offset0 SCC 20 MHz Ch132521 RB100 Offset0(2)



Lowest Channel\_PCC 20MHz Ch132072 RB100 Offset0 SCC 20MHz Ch132270 RB100 Offset0(1)



Lowest Channel\_PCC 20MHz Ch132072 RB100 Offset0 SCC 20MHz Ch132270 RB100 Offset0(2)





### 8.5 Frequency Stability / Variation of Ambient Temperature

- ▣ PCC Channel: 132005
- ▣ PCC Frequency: 1713.3 MHz
- ▣ PCC BandWidth: 5 MHz
- ▣ SCC Channel: 132122
- ▣ SCC Frequency: 1725.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	-0.040	0.035	1713.34000	1724.96484
100 %		-30	0.036	-0.043	1713.26392	1725.04310
100 %		-20	0.021	-0.026	1713.27904	1725.02629
100 %		-10	-0.035	0.038	1713.33527	1724.96193
100 %		0	0.029	0.023	1713.27073	1724.97654
100 %		10	0.019	0.037	1713.28064	1724.96265
100 %		30	0.017	0.027	1713.28286	1724.97322
100 %		40	0.032	-0.045	1713.26774	1725.04519
100 %		50	-0.035	-0.046	1713.33498	1725.04581
Batt. Endpoint	3.300	20	0.026	0.017	1713.27378	1724.98308

- ▣ PCC Channel: 132025
- ▣ PCC Frequency: 1715.3 MHz
- ▣ PCC BandWidth: 10 MHz
- ▣ SCC Channel: 132145
- ▣ SCC Frequency: 1727.3 MHz
- ▣ SCC BandWidth: 15 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	0.020	0.034	1715.28021	1727.26632
100 %		-30	0.025	0.021	1715.27500	1727.27895
100 %		-20	0.027	-0.031	1715.27303	1727.33117
100 %		-10	0.026	-0.027	1715.27406	1727.32695
100 %		0	0.022	0.026	1715.27774	1727.27417
100 %		10	0.042	0.032	1715.25818	1727.26751
100 %		30	-0.038	-0.033	1715.33753	1727.33332
100 %		40	-0.041	0.032	1715.34111	1727.26839
100 %		50	0.029	0.026	1715.27134	1727.27364
Batt. Endpoint		3.300	20	0.025	0.023	1715.27514

- ▣ PCC Channel: 132047
- ▣ PCC Frequency: 1717.5 MHz
- ▣ PCC BandWidth: 15 MHz
- ▣ SCC Channel: 132167
- ▣ SCC Frequency: 1729.5 MHz
- ▣ SCC BandWidth: 10 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	0.031	-0.041	1717.46911	1729.54092
100 %		-30	0.024	0.026	1717.47647	1729.47409
100 %		-20	-0.044	-0.041	1717.54389	1729.54052
100 %		-10	-0.026	0.022	1717.52572	1729.47773
100 %		0	0.021	-0.026	1717.47903	1729.52585
100 %		10	-0.027	-0.036	1717.52673	1729.53650
100 %		30	0.022	0.028	1717.47832	1729.47225
100 %		40	-0.037	0.033	1717.53673	1729.46738
100 %		50	-0.036	0.027	1717.53616	1729.47253
Batt. Endpoint		3.300	20	0.036	0.029	1717.46405

- ▣ PCC Channel: 132072
- ▣ PCC Frequency: 1720.0 MHz
- ▣ PCC BandWidth: 20 MHz
- ▣ SCC Channel: 132270
- ▣ SCC Frequency: 1739.8 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	0.040	-0.035	1719.96017	1739.83471
100 %		-30	0.021	-0.041	1719.97944	1739.84064
100 %		-20	0.026	-0.030	1719.97384	1739.82968
100 %		-10	0.030	0.014	1719.96978	1739.78582
100 %		0	0.036	0.019	1719.96433	1739.78131
100 %		10	0.039	0.023	1719.96136	1739.77675
100 %		30	0.028	0.020	1719.97204	1739.78033
100 %		40	0.017	-0.033	1719.98293	1739.83287
100 %		50	0.037	0.028	1719.96345	1739.77220
Batt. Endpoint		3.300	20	-0.045	0.018	1720.04545

- ▣ PCC Channel: 132455
- ▣ PCC Frequency: 1758.3 MHz
- ▣ PCC BandWidth: 5 MHz
- ▣ SCC Channel: 132572
- ▣ SCC Frequency: 1770.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	0.025	0.032	1758.27488	1769.96820
100 %		-30	0.027	0.033	1758.27269	1769.96724
100 %		-20	0.026	0.023	1758.27426	1769.97673
100 %		-10	0.020	0.019	1758.27965	1769.98115
100 %		0	0.030	-0.042	1758.26952	1770.04164
100 %		10	0.032	-0.039	1758.26782	1770.03914
100 %		30	0.031	0.027	1758.26870	1769.97329
100 %		40	0.037	-0.035	1758.26266	1770.03538
100 %		50	0.015	0.038	1758.28495	1769.96175
Batt. Endpoint		3.300	20	0.022	-0.030	1758.27784

- ▣ PCC Channel: 132597
- ▣ PCC Frequency: 1772.5 MHz
- ▣ PCC BandWidth: 10 MHz
- ▣ SCC Channel: 132717
- ▣ SCC Frequency: 1784.5 MHz
- ▣ SCC BandWidth: 15 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	-0.043	0.024	1772.54276	1784.47578
100 %		-30	0.026	0.031	1772.47385	1784.46932
100 %		-20	0.027	-0.046	1772.47313	1784.54556
100 %		-10	0.037	0.033	1772.46325	1784.46672
100 %		0	0.037	0.024	1772.46297	1784.47616
100 %		10	0.029	0.037	1772.47077	1784.46307
100 %		30	0.020	0.014	1772.48050	1784.48593
100 %		40	0.034	0.034	1772.46585	1784.46550
100 %		50	0.029	0.037	1772.47080	1784.46329
Batt. Endpoint		3.300	20	0.030	-0.046	1772.46951

- ▣ PCC Channel: 132499
- ▣ PCC Frequency: 1762.7 MHz
- ▣ PCC BandWidth: 15 MHz
- ▣ SCC Channel: 132619
- ▣ SCC Frequency: 1774.7 MHz
- ▣ SCC BandWidth: 10 MHz
- ▣ Voltage : 3.880 VDC
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	-0.043	0.028	1762.74281	1774.67195
100 %		-30	0.026	0.034	1762.67420	1774.66559
100 %		-20	0.038	0.030	1762.66231	1774.67014
100 %		-10	0.023	0.034	1762.67692	1774.66580
100 %		0	-0.039	0.027	1762.73944	1774.67337
100 %		10	0.015	0.031	1762.68461	1774.66852
100 %		30	0.029	0.028	1762.67069	1774.67223
100 %		40	-0.049	0.021	1762.74860	1774.67936
100 %		50	0.034	0.039	1762.66609	1774.66130
Batt. Endpoint		3.300	20	0.021	0.016	1762.67856

- ▣ PCC Channel: 132374
- ▣ PCC Frequency: 1750.2 MHz
- ▣ PCC BandWidth: 20 MHz
- ▣ SCC Channel: 132572
- ▣ SCC Frequency: 1770.0 MHz
- ▣ SCC BandWidth: 20 MHz
- ▣ Voltage : 3.880 MHz
- ▣ LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	PPM		Frequency Error (MHz)	
			PCC	SCC	PCC	SCC
100 %	3.880	+20(Ref)	0.030	0.031	1750.17031	1769.96864
100 %		-30	-0.032	0.035	1750.23161	1769.96470
100 %		-20	-0.045	0.021	1750.24505	1769.97883
100 %		-10	-0.026	0.032	1750.22591	1769.96755
100 %		0	0.035	0.019	1750.16481	1769.98119
100 %		10	0.038	0.025	1750.16236	1769.97531
100 %		30	0.023	0.028	1750.17661	1769.97165
100 %		40	-0.052	0.037	1750.25173	1769.96308
100 %		50	-0.045	-0.040	1750.24538	1770.03959
Batt. Endpoint	3.300	20	-0.033	0.018	1750.23326	1769.98248



### 8.6 Radiated Spurious Emissions

- ▣ PCC Channel : 132025 (1715.3 MHz)
- ▣ PCC BW(MHz) : 10
- ▣ PCC RB/ RB Offset : 1/ 49
- ▣ SCC Channel : 132145 (1727.3 MHz)
- ▣ SCC BW(MHz) : 15
- ▣ SCC RB/ RB Offset : 1/ 0
- ▣ DISTANCE: 3 meters
- ▣ LIMIT: -13.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
3 442.60	-47.62	12.40	-53.74	3.14	H	-44.48
5 163.90	-59.02	12.46	-57.23	3.78	H	-48.55
6 885.20	-59.40	11.81	-52.76	4.52	H	-45.46

- ▣ PCC Channel : 132325 (1745.3 MHz)
- ▣ PCC BW(MHz) : 15
- ▣ PCC RB/ RB Offset : 1/ 74
- ▣ SCC Channel : 132496 (1762.4 MHz)
- ▣ SCC BW(MHz) : 20
- ▣ SCC RB/ RB Offset : 1/ 0
- ▣ DISTANCE: 3 meters
- ▣ LIMIT: -13.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
3 507.70	-41.93	12.34	-48.24	3.12	V	-39.02
5 261.55	-57.24	12.99	-56.92	3.83	H	-47.76
7 015.40	-59.06	11.24	-51.11	4.57	V	-44.44

- ▣ PCC Channel : 132374 (1750.2 MHz)
- ▣ PCC BW(MHz) : 20
- ▣ PCC RB/ RB Offset : 1/ 99
- ▣ SCC Channel : 132572 (1770.0 MHz)
- ▣ SCC BW(MHz) : 20
- ▣ SCC RB/ RB Offset : 1/ 0
- ▣ DISTANCE: 3 meters
- ▣ LIMIT: -13.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
3 520.20	-44.62	12.34	-50.98	3.13	H	-41.77
5 280.30	-56.78	13.06	-56.29	3.84	V	-47.07
7 040.40	-58.76	11.12	-49.68	4.54	V	-43.10

### 8.7 Occupied Bandwidth

PCC					SCC					Data (MHz)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	QPSK	50/0	15	132471	1759.9	QPSK	75/0	23.181
15	132373	1750.1	QPSK	75/0	10	132493	1762.1	QPSK	50/0	23.136
10	132328	1745.6	QPSK	50/0	20	132472	1760.0	QPSK	100/0	27.781
20	132373	1750.1	QPSK	100/0	10	132517	1764.5	QPSK	50/0	27.809
15	132347	1747.5	QPSK	75/0	15	132497	1762.5	QPSK	75/0	28.389
15	132325	1745.3	QPSK	75/0	20	132496	1762.4	QPSK	100/0	32.640
20	132348	1747.6	QPSK	100/0	15	132519	1764.7	QPSK	75/0	32.707
20	132397	1752.5	QPSK	100/0	5	132514	1764.2	QPSK	25/0	22.964
5	132330	1745.8	QPSK	25/0	20	132447	1757.5	QPSK	100/0	22.910
20	132323	1745.1	QPSK	100/0	20	132521	1764.9	QPSK	100/0	37.602

PCC					SCC					Data (MHz)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	16QAM	50/0	15	132471	1759.9	16QAM	75/0	23.187
15	132373	1750.1	16QAM	75/0	10	132493	1762.1	16QAM	50/0	23.191
10	132328	1745.6	16QAM	50/0	20	132472	1760.0	16QAM	100/0	27.803
20	132373	1750.1	16QAM	100/0	10	132517	1764.5	16QAM	50/0	27.848
15	132347	1747.5	16QAM	75/0	15	132497	1762.5	16QAM	75/0	28.447
15	132325	1745.3	16QAM	75/0	20	132496	1762.4	16QAM	100/0	32.723
20	132348	1747.6	16QAM	100/0	15	132519	1764.7	16QAM	75/0	32.757
20	132397	1752.5	16QAM	100/0	5	132514	1764.2	16QAM	25/0	22.967
5	132330	1745.8	16QAM	25/0	20	132447	1757.5	16QAM	100/0	22.929
20	132323	1745.1	16QAM	100/0	20	132521	1764.9	16QAM	100/0	37.596

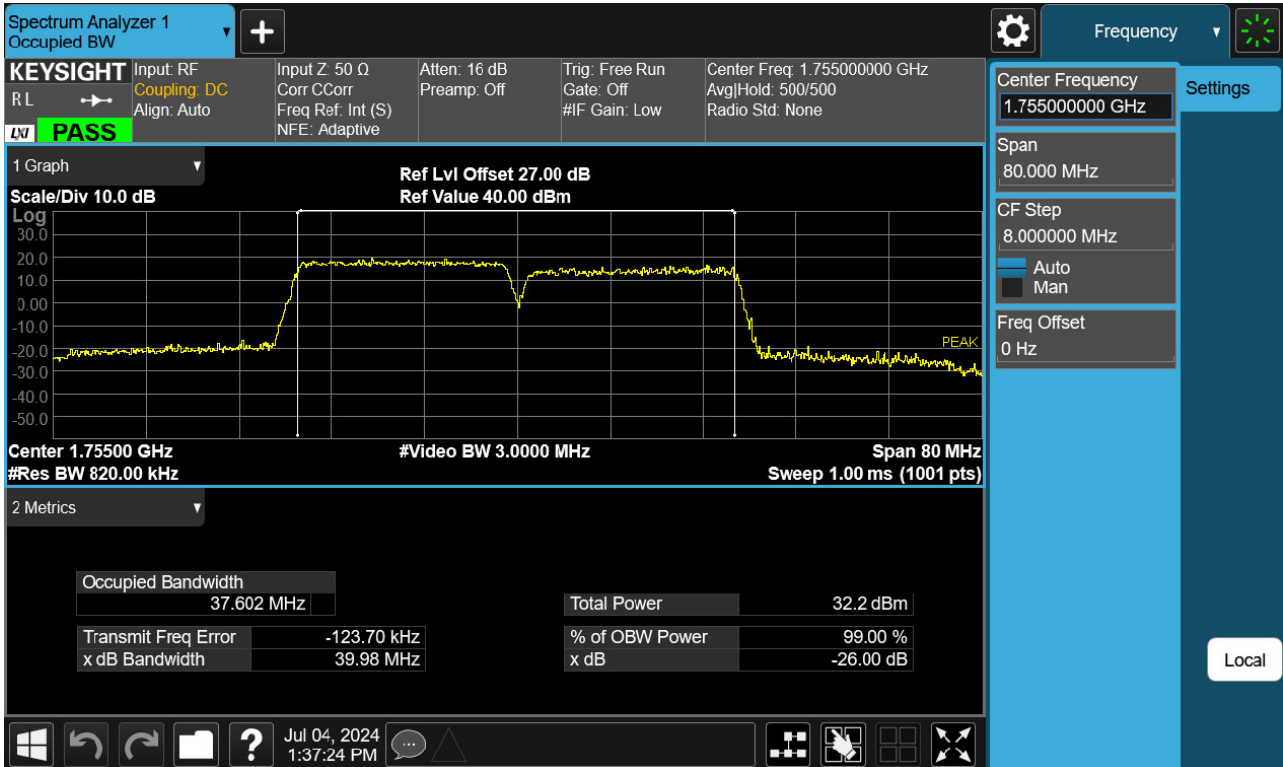
PCC					SCC					Data (MHz)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	64QAM	50/0	15	132471	1759.9	64QAM	75/0	23.095
15	132373	1750.1	64QAM	75/0	10	132493	1762.1	64QAM	50/0	23.151
10	132328	1745.6	64QAM	50/0	20	132472	1760.0	64QAM	100/0	27.793
20	132373	1750.1	64QAM	100/0	10	132517	1764.5	64QAM	50/0	27.792
15	132347	1747.5	64QAM	75/0	15	132497	1762.5	64QAM	75/0	28.394
15	132325	1745.3	64QAM	75/0	20	132496	1762.4	64QAM	100/0	32.655
20	132348	1747.6	64QAM	100/0	15	132519	1764.7	64QAM	75/0	32.665
20	132397	1752.5	64QAM	100/0	5	132514	1764.2	64QAM	25/0	22.883
5	132330	1745.8	64QAM	25/0	20	132447	1757.5	64QAM	100/0	22.794
20	132323	1745.1	64QAM	100/0	20	132521	1764.9	64QAM	100/0	37.556

PCC					SCC					Data (MHz)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	256QAM	50/0	15	132471	1759.9	256QAM	75/0	23.157
15	132373	1750.1	256QAM	75/0	10	132493	1762.1	256QAM	50/0	23.178
10	132328	1745.6	256QAM	50/0	20	132472	1760.0	256QAM	100/0	27.793
20	132373	1750.1	256QAM	100/0	10	132517	1764.5	256QAM	50/0	27.867
15	132347	1747.5	256QAM	75/0	15	132497	1762.5	256QAM	75/0	28.385
15	132325	1745.3	256QAM	75/0	20	132496	1762.4	256QAM	100/0	32.643
20	132348	1747.6	256QAM	100/0	15	132519	1764.7	256QAM	75/0	32.692
20	132397	1752.5	256QAM	100/0	5	132514	1764.2	256QAM	25/0	22.940
5	132330	1745.8	256QAM	25/0	20	132447	1757.5	256QAM	100/0	22.851
20	132323	1745.1	256QAM	100/0	20	132521	1764.9	256QAM	100/0	37.549

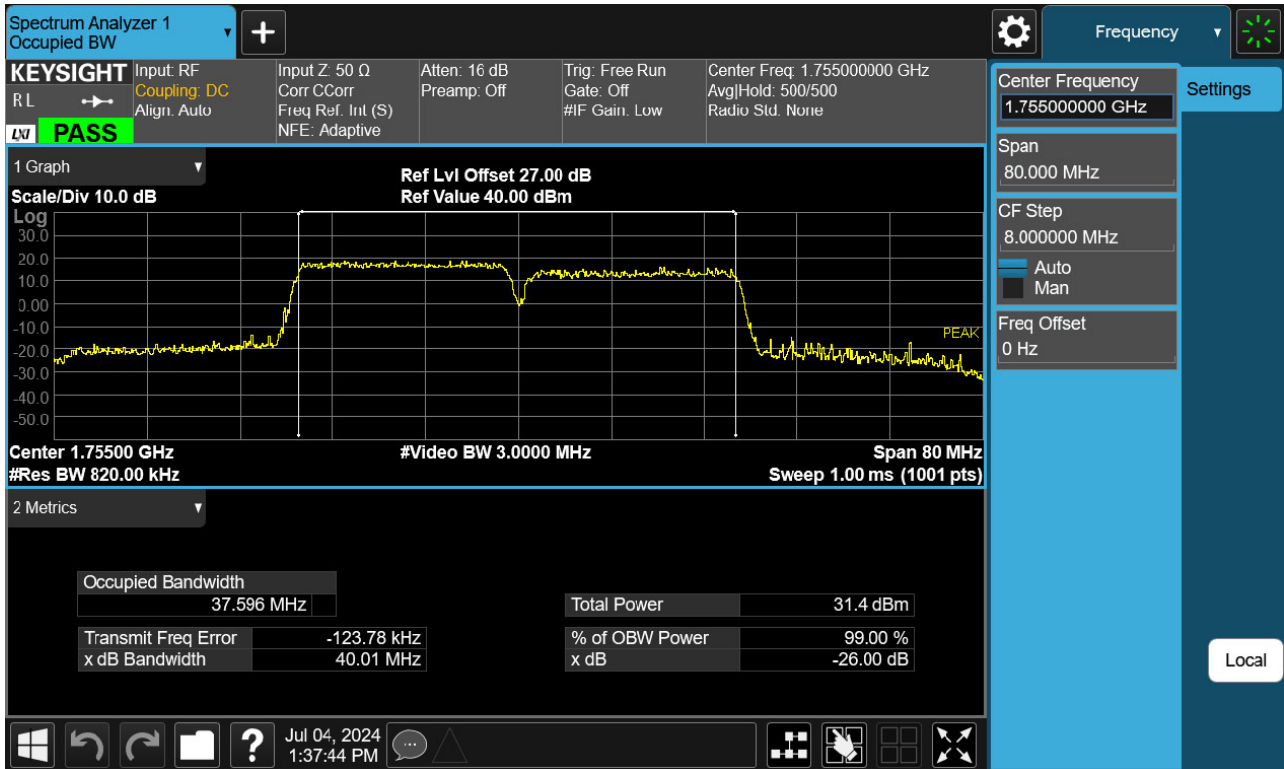
Note:

In order to simplify the report, attached plots were only widest bandwidth(20+20).

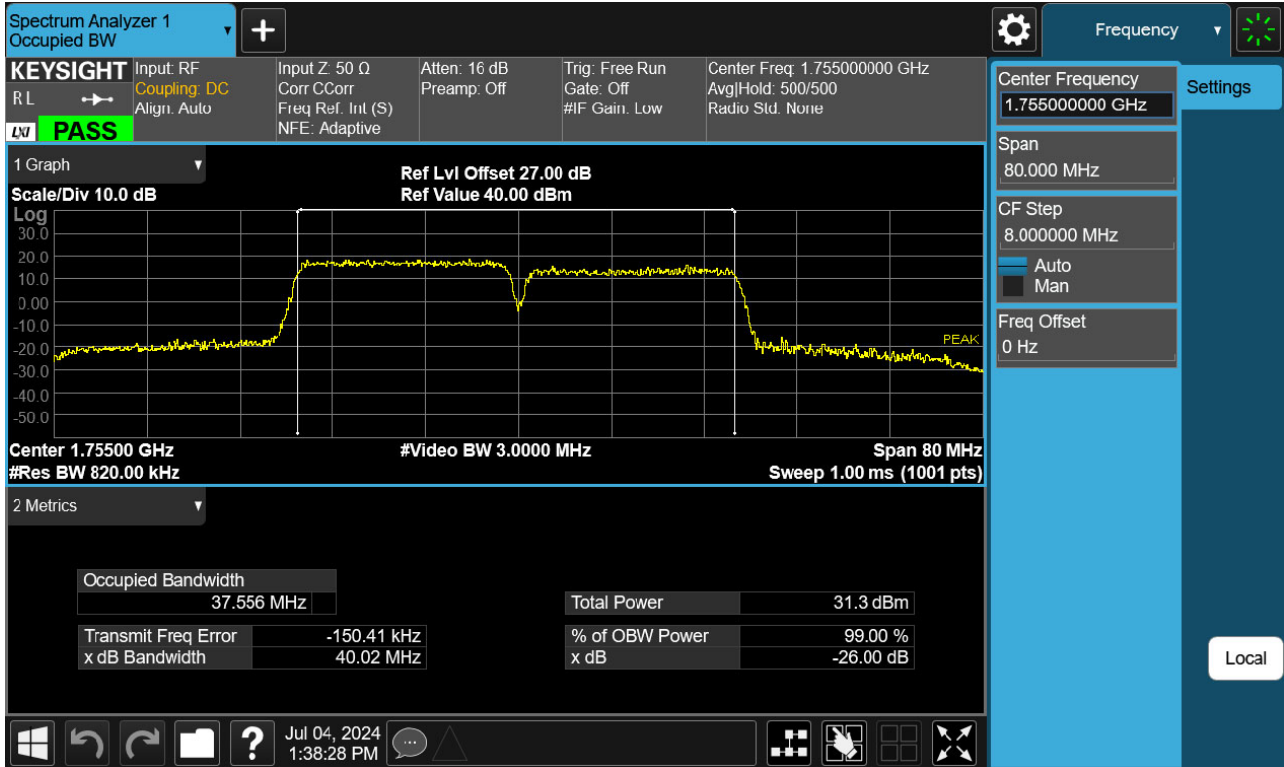
PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(QPSK)



PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(16QAM)

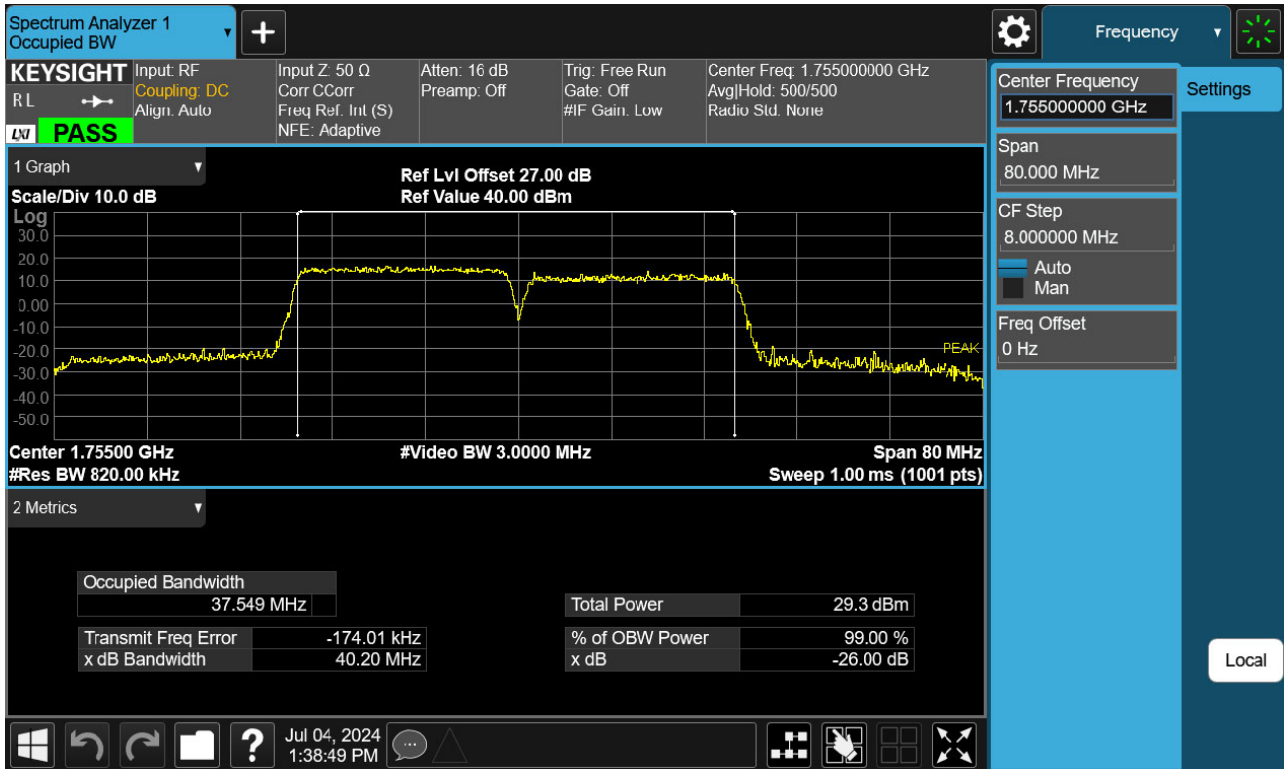


PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(64QAM)





PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(256QAM)



### 8.8 Peak- to- Average Ratio

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	QPSK	50/0	15	132471	1759.9	QPSK	75/0	6.31
15	132373	1750.1	QPSK	75/0	10	132493	1762.1	QPSK	50/0	6.28
10	132328	1745.6	QPSK	50/0	20	132472	1760.0	QPSK	100/0	6.29
20	132373	1750.1	QPSK	100/0	10	132517	1764.5	QPSK	50/0	6.28
15	132347	1747.5	QPSK	75/0	15	132497	1762.5	QPSK	75/0	6.73
15	132325	1745.3	QPSK	75/0	20	132496	1762.4	QPSK	100/0	6.25
20	132348	1747.6	QPSK	100/0	15	132519	1764.7	QPSK	75/0	6.33
20	132397	1752.5	QPSK	100/0	5	132514	1764.2	QPSK	25/0	6.30
5	132330	1745.8	QPSK	25/0	20	132447	1757.5	QPSK	100/0	6.30
20	132323	1745.1	QPSK	100/0	20	132521	1764.9	QPSK	100/0	6.79

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	16QAM	50/0	15	132471	1759.9	16QAM	75/0	6.81
15	132373	1750.1	16QAM	75/0	10	132493	1762.1	16QAM	50/0	6.79
10	132328	1745.6	16QAM	50/0	20	132472	1760.0	16QAM	100/0	6.79
20	132373	1750.1	16QAM	100/0	10	132517	1764.5	16QAM	50/0	6.76
15	132347	1747.5	16QAM	75/0	15	132497	1762.5	16QAM	75/0	7.59
15	132325	1745.3	16QAM	75/0	20	132496	1762.4	16QAM	100/0	6.76
20	132348	1747.6	16QAM	100/0	15	132519	1764.7	16QAM	75/0	6.83
20	132397	1752.5	16QAM	100/0	5	132514	1764.2	16QAM	25/0	6.82
5	132330	1745.8	16QAM	25/0	20	132447	1757.5	16QAM	100/0	6.79
20	132323	1745.1	16QAM	100/0	20	132521	1764.9	16QAM	100/0	7.58

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	64QAM	50/0	15	132471	1759.9	64QAM	75/0	6.88
15	132373	1750.1	64QAM	75/0	10	132493	1762.1	64QAM	50/0	6.88
10	132328	1745.6	64QAM	50/0	20	132472	1760.0	64QAM	100/0	6.86
20	132373	1750.1	64QAM	100/0	10	132517	1764.5	64QAM	50/0	6.87
15	132347	1747.5	64QAM	75/0	15	132497	1762.5	64QAM	75/0	7.82
15	132325	1745.3	64QAM	75/0	20	132496	1762.4	64QAM	100/0	6.91
20	132348	1747.6	64QAM	100/0	15	132519	1764.7	64QAM	75/0	6.90
20	132397	1752.5	64QAM	100/0	5	132514	1764.2	64QAM	25/0	6.93
5	132330	1745.8	64QAM	25/0	20	132447	1757.5	64QAM	100/0	6.89
20	132323	1745.1	64QAM	100/0	20	132521	1764.9	64QAM	100/0	7.82

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/Offset	
10	132351	1747.9	256QAM	50/0	15	132471	1759.9	256QAM	75/0	7.02
15	132373	1750.1	256QAM	75/0	10	132493	1762.1	256QAM	50/0	7.03
10	132328	1745.6	256QAM	50/0	20	132472	1760.0	256QAM	100/0	7.02
20	132373	1750.1	256QAM	100/0	10	132517	1764.5	256QAM	50/0	7.01
15	132347	1747.5	256QAM	75/0	15	132497	1762.5	256QAM	75/0	8.06
15	132325	1745.3	256QAM	75/0	20	132496	1762.4	256QAM	100/0	7.05
20	132348	1747.6	256QAM	100/0	15	132519	1764.7	256QAM	75/0	7.07
20	132397	1752.5	256QAM	100/0	5	132514	1764.2	256QAM	25/0	7.05
5	132330	1745.8	256QAM	25/0	20	132447	1757.5	256QAM	100/0	7.03
20	132323	1745.1	256QAM	100/0	20	132521	1764.9	256QAM	100/0	8.10

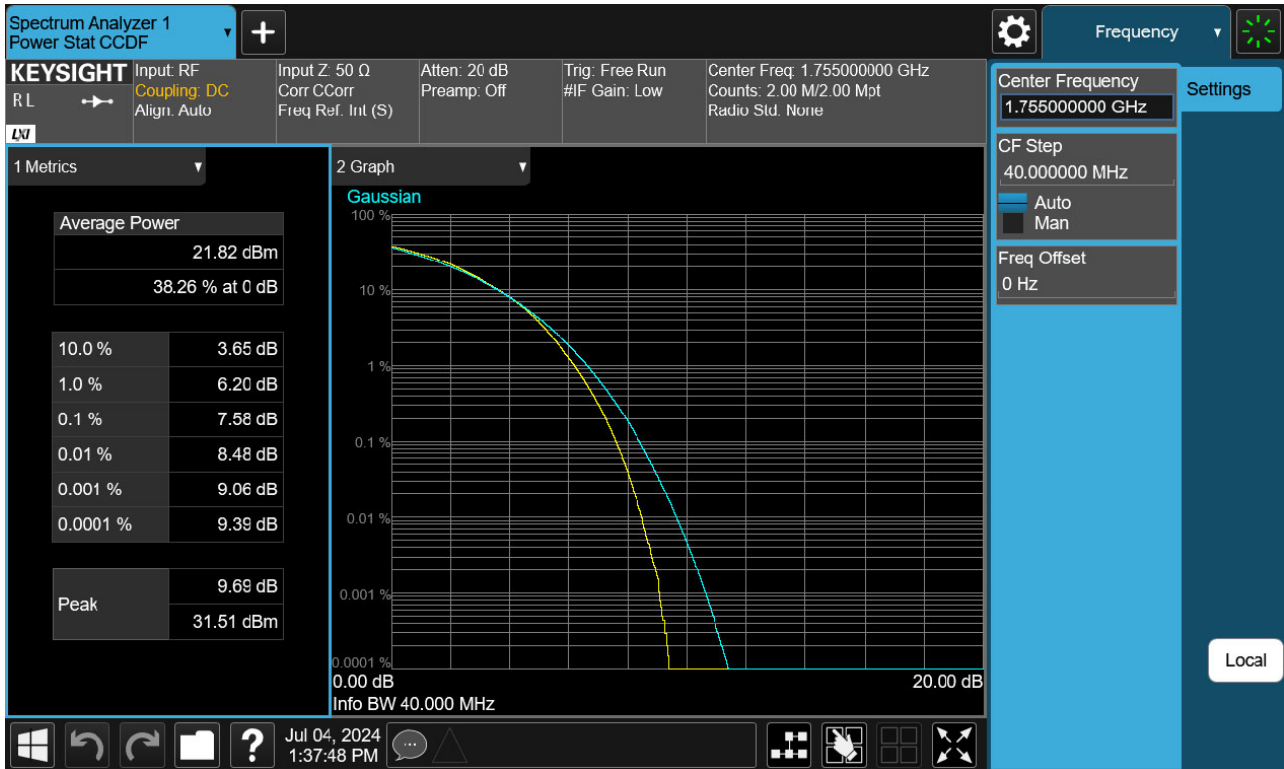
Note:

In order to simplify the report, attached plots were only widest bandwidth(20+20).

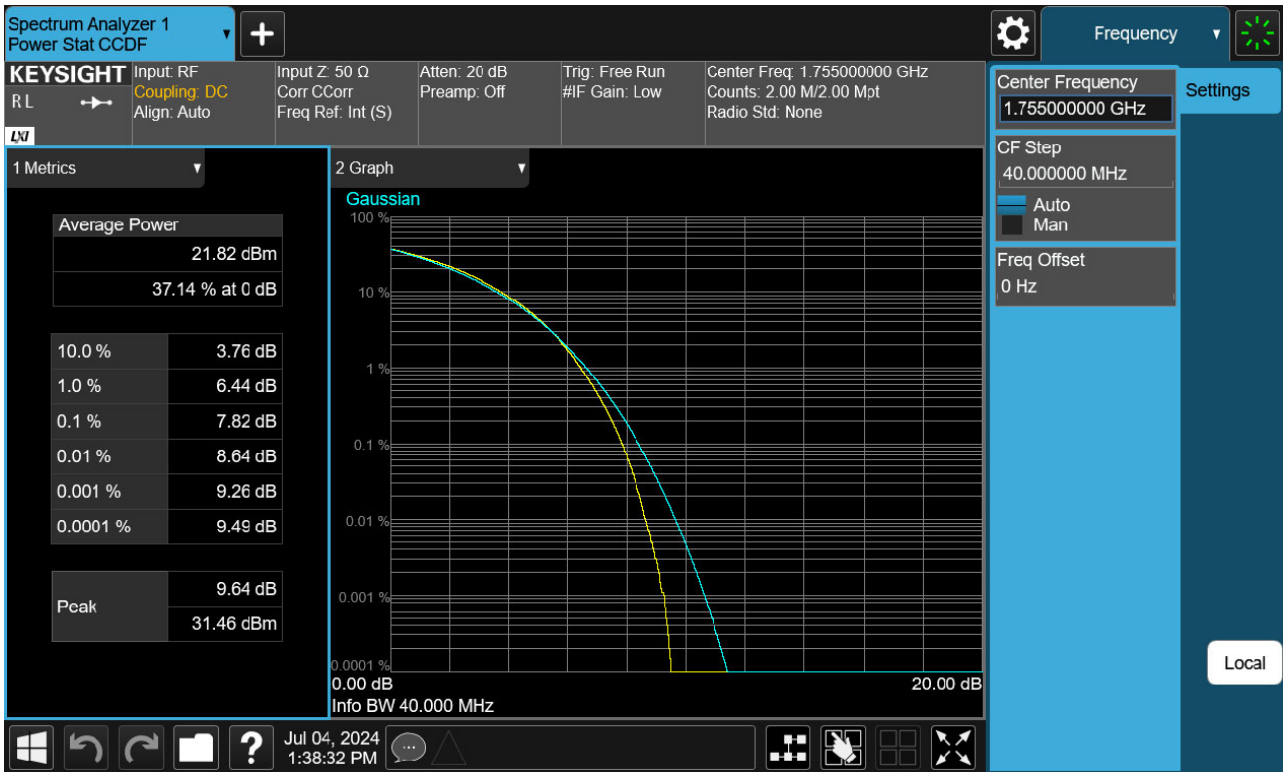
PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(QPSK)



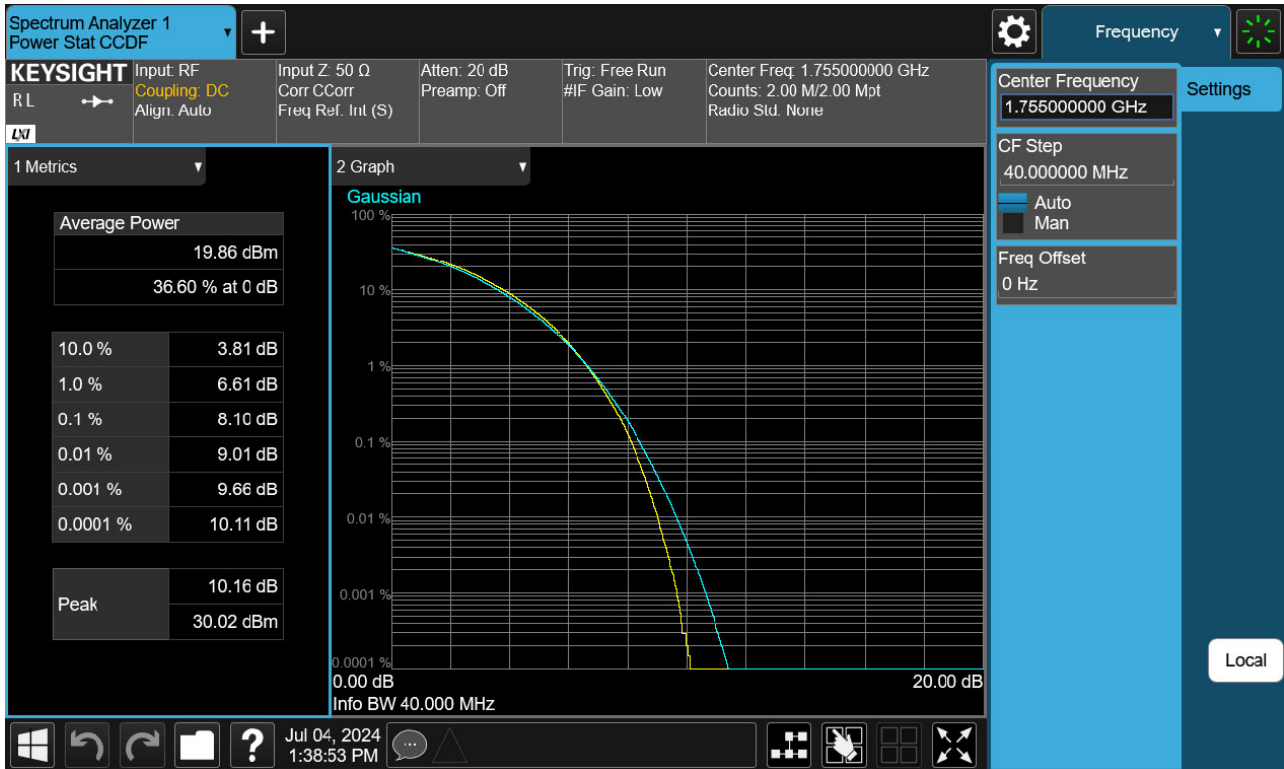
PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(16QAM)



PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(64QAM)



PCC 20 MHz Ch132323 RB100 Offset0, SCC 20 MHz Ch132521 RB100 Offset0\_(256QAM)



## 9. TEST DATA(Sub 5 Ant) (ANT F)

### Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

### Test Note

1. All tests were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth.
2. Channel bandwidth is shown in the tables below based only on the channel bandwidths that were supported in this device.

Channel Bandwidth (PCC)	Channel Bandwidth (SCC)	Maximum aggregated bandwidth (MHz)
10	15	25
15	10	25
10	20	30
20	10	30
15	15	30
15	20	35
20	15	35
20	5	25
5	20	25
20	20	40



3. All modes of operation were investigated and the worst case configuration results are reported in this section.  
Please refer to the table below.

- Worst case(Conducted Spurious Emissions, Band Edge)  
: We have selected higher of the Conduction Output Power.
- Worst case(Radiated Spurious Emissions) : We have selected higher of the EIRP.
- Worst case(OBW, PAR, Frequency stability)  
: All modes of operation were investigated and the worst case configuration results are reported.

4. All modes of operation were investigated and the worst case configuration results are reported.

Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)  
Worst case : Stand alone

5. All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.

Therefore, only the worst case(stand-alone) results were reported

6. All 3 channels(low/mid/high) of conducted power and radiated power were investigated and the worst case channel results are reported.

[ Worst case ]

Test Description	Mod	Operating frequency	PCC					SCC				
			BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset	BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset
Conducted Spurious Emissions/ Band Edge	QPSK	Low	20	1720.0	132072	1	99	5	1731.7	132189	1	0
		Mid	15	1745.3	132325	1	74	20	1762.4	132496	1	0
		High	20	1755.1	132423	1	99	15	1772.2	132594	1	0
		Low	20	1720.0	132072	1	0	5	1731.7	132189	1	24
		Mid	15	1745.3	132325	1	0	20	1762.4	132496	1	99
		High	20	1755.1	132423	1	0	15	1772.2	132594	1	74
		Low	20	1720.0	132072	100	0	20	1739.8	132270	100	0
		Mid	20	1745.1	132323	100	0	20	1764.9	132521	100	0
		High	20	1750.2	132374	100	0	20	1770.0	132572	100	0
Radiated Spurious Emissions	QPSK	Low	20	1720.0	132072	1	99	20	1739.8	132270	1	0
		Mid	10	1745.6	132328	1	49	20	1760.0	132472	1	0
		High	20	1750.2	132374	1	99	20	1770.0	132572	1	0

[ Worst case ]

Test Description	Mod	Operating frequency	PCC					SCC				
			BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset	BW (MHz)	Freq. (MHz)	Ch.	RB	RB Offset
OBW, PAR	QPSK, 16QAM, 64QAM, 256QAM	Mid	10	1747.9	132351	50	0	15	1759.9	132471	75	0
			15	1750.1	132373	75	0	10	1762.1	132493	50	0
			10	1745.6	132328	50	0	20	1760.0	132472	100	0
			20	1750.1	132373	100	0	10	1764.5	132517	50	0
			15	1747.5	132347	75	0	15	1762.5	132497	75	0
			15	1745.3	132325	75	0	20	1762.4	132496	100	0
			20	1747.6	132348	100	0	15	1764.7	132519	75	0
			20	1752.5	132397	100	0	5	1764.2	132514	25	0
			5	1745.8	132330	25	0	20	1757.5	132447	100	0
			20	1745.1	132323	100	0	20	1764.9	132521	100	0
Frequency stability	QPSK	Low	5	1713.3	132005	25	0	20	1725.0	132122	100	0
			10	1715.3	132025	50	0	15	1727.3	132145	75	0
			15	1717.5	132047	75	0	10	1729.5	132167	50	0
			20	1720.0	132072	100	0	20	1739.8	132270	100	0
		High	5	1758.3	132455	25	0	20	1770.0	132572	100	0
			10	1772.5	132597	50	0	15	1784.5	132717	75	0
			15	1762.7	132499	75	0	10	1774.7	132619	50	0
			20	1750.2	132374	100	0	20	1770.0	132572	100	0

## 9.1 Conducted Power

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	10	1715.3	132025	1	49	15	1727.3	132145	1	0	22.45
	15	1717.5	132047	1	74	10	1729.5	132167	1	0	22.46
	10	1715.5	132027	1	49	20	1729.9	132171	1	0	22.37
	20	1720.0	132072	1	99	10	1734.4	132216	1	0	22.44
	15	1717.5	132047	1	74	15	1732.5	132197	1	0	22.34
	15	1717.8	132050	1	74	20	1734.9	132221	1	0	22.53
	20	1720.0	132072	1	99	15	1737.1	132243	1	0	22.35
	<b>20</b>	<b>1720.0</b>	<b>132072</b>	<b>1</b>	<b>99</b>	<b>5</b>	<b>1731.7</b>	<b>132189</b>	<b>1</b>	<b>0</b>	<b>22.82</b>
	5	1713.3	132005	1	24	20	1725.0	132122	1	0	22.40
	20	1720.0	132072	1	99	20	1739.8	132270	1	0	22.78
Mid	10	1747.9	132351	1	49	15	1759.9	132471	1	0	22.45
	15	1750.1	132373	1	74	10	1762.1	132493	1	0	22.44
	10	1745.6	132328	1	49	20	1760.0	132472	1	0	22.44
	20	1750.1	132373	1	99	10	1764.5	132517	1	0	22.45
	15	1747.5	132347	1	74	15	1762.5	132497	1	0	22.73
	<b>15</b>	<b>1745.3</b>	<b>132325</b>	<b>1</b>	<b>74</b>	<b>20</b>	<b>1762.4</b>	<b>132496</b>	<b>1</b>	<b>0</b>	<b>22.74</b>
	20	1747.6	132348	1	99	15	1764.7	132519	1	0	22.50
	20	1752.5	132397	1	99	5	1764.2	132514	1	0	22.31
	5	1745.8	132330	1	24	20	1757.5	132447	1	0	22.43
	20	1745.1	132323	1	99	20	1764.9	132521	1	0	22.50
High	10	1760.5	132477	1	49	15	1772.5	132597	1	0	22.35
	15	1762.7	132499	1	74	10	1774.7	132619	1	0	22.37
	10	1755.6	132428	1	49	20	1770.0	132572	1	0	22.37
	20	1760.1	132473	1	99	10	1774.5	132617	1	0	22.51
	15	1757.5	132447	1	74	15	1772.5	132597	1	0	22.33
	15	1752.9	132401	1	74	20	1770.0	132572	1	0	22.41
	<b>20</b>	<b>1755.1</b>	<b>132423</b>	<b>1</b>	<b>99</b>	<b>15</b>	<b>1772.2</b>	<b>132594</b>	<b>1</b>	<b>0</b>	<b>22.68</b>
	20	1765.0	132522	1	99	5	1776.7	132639	1	0	22.39
	5	1758.3	132455	1	24	20	1770.0	132572	1	0	22.43
	20	1750.2	132374	1	99	20	1770.0	132572	1	0	22.49

## Note:

Modulation : QPSK(1RB)

Operating frequency	PCC					SCC					Conducted.
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Power [dBm]
Low	10	1715.3	132025	50	0	15	1727.3	132145	75	0	20.64
	15	1717.5	132047	75	0	10	1729.5	132167	50	0	20.69
	10	1715.5	132027	50	0	20	1729.9	132171	100	0	20.63
	20	1720.0	132072	100	0	10	1734.4	132216	50	0	20.50
	15	1717.5	132047	75	0	15	1732.5	132197	75	0	20.69
	15	1717.8	132050	75	0	20	1734.9	132221	100	0	20.69
	20	1720.0	132072	100	0	15	1737.1	132243	75	0	20.70
	20	1720.0	132072	100	0	5	1731.7	132189	25	0	20.04
	5	1713.3	132005	25	0	20	1725.0	132122	100	0	20.63
		<b>20</b>	<b>1720.0</b>	<b>132072</b>	<b>100</b>	<b>0</b>	<b>20</b>	<b>1739.8</b>	<b>132270</b>	<b>100</b>	<b>0</b>
Mid	10	1747.9	132351	50	0	15	1759.9	132471	75	0	20.85
	15	1750.1	132373	75	0	10	1762.1	132493	50	0	20.91
	10	1745.6	132328	50	0	20	1760.0	132472	100	0	20.92
	20	1750.1	132373	100	0	10	1764.5	132517	50	0	20.86
	15	1747.5	132347	75	0	15	1762.5	132497	75	0	20.90
	15	1745.3	132325	75	0	20	1762.4	132496	100	0	20.79
	20	1747.6	132348	100	0	15	1764.7	132519	75	0	20.88
	20	1752.5	132397	100	0	5	1764.2	132514	25	0	20.98
	5	1745.8	132330	25	0	20	1757.5	132447	100	0	20.87
		<b>20</b>	<b>1745.1</b>	<b>132323</b>	<b>100</b>	<b>0</b>	<b>20</b>	<b>1764.9</b>	<b>132521</b>	<b>100</b>	<b>0</b>
High	10	1760.5	132477	50	0	15	1772.5	132597	75	0	20.95
	15	1762.7	132499	75	0	10	1774.7	132619	50	0	20.94
	10	1755.6	132428	50	0	20	1770.0	132572	100	0	20.81
	20	1760.1	132473	100	0	10	1774.5	132617	50	0	20.89
	15	1757.5	132447	75	0	15	1772.5	132597	75	0	20.91
	15	1752.9	132401	75	0	20	1770.0	132572	100	0	20.81
	20	1755.1	132423	100	0	15	1772.2	132594	75	0	20.88
	20	1765.0	132522	100	0	5	1776.7	132639	25	0	20.84
	5	1758.3	132455	25	0	20	1770.0	132572	100	0	20.87
		<b>20</b>	<b>1750.2</b>	<b>132374</b>	<b>100</b>	<b>0</b>	<b>20</b>	<b>1770.0</b>	<b>132572</b>	<b>100</b>	<b>0</b>

Note:

Modulation : QPSK(Full RB)

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	20	1720.0	132072	1	99	5	1731.7	132189	1	0	21.86
Mid	15	1745.3	132325	1	74	20	1762.4	132496	1	0	21.78
High	20	1755.1	132423	1	99	15	1772.2	132594	1	0	21.64
Low	20	1720.0	132072	100	0	20	1739.8	132270	100	0	20.05
Mid	20	1745.1	132323	100	0	20	1764.9	132521	100	0	19.36
High	20	1750.2	132374	100	0	20	1770.0	132572	100	0	19.43

Note:

Modulation : 16QAM

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	20	1720.0	132072	1	99	5	1731.7	132189	1	0	19.61
Mid	15	1745.3	132325	1	74	20	1762.4	132496	1	0	19.75
High	20	1755.1	132423	1	99	15	1772.2	132594	1	0	19.51
Low	20	1720.0	132072	100	0	20	1739.8	132270	100	0	19.43
Mid	20	1745.1	132323	100	0	20	1764.9	132521	100	0	19.44
High	20	1750.2	132374	100	0	20	1770.0	132572	100	0	19.41

Note:

Modulation : 64QAM

Operating frequency	PCC					SCC					Conducted. Power [dBm]
	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	Bandwidth [MHz]	Freq. (MHz)	Channel	RB	RB Offset	
Low	20	1720.0	132072	1	99	5	1731.7	132189	1	0	17.40
Mid	15	1745.3	132325	1	74	20	1762.4	132496	1	0	17.45
High	20	1755.1	132423	1	99	15	1772.2	132594	1	0	17.44
Low	20	1720.0	132072	100	0	20	1739.8	132270	100	0	17.25
Mid	20	1745.1	132323	100	0	20	1764.9	132521	100	0	17.44
High	20	1750.2	132374	100	0	20	1770.0	132572	100	0	17.35

Note:

Modulation : 256QAM

## 9.2 Equivalent Isotropic Radiated Power

	PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
	BW [MHz]	Channel	RB/Offset	BW [MHz]	Channel	RB/Offset						W	dBm
Low	10	132025	1/49	15	132145	1/0	-19.29	14.22	10.01	2.22	H	0.159	22.01
	15	132047	1/74	10	132167	1/0	-19.38	14.22	10.04	2.20	H	0.161	22.06
	10	132027	1/49	20	132171	1/0	-19.49	14.02	10.01	2.22	H	0.152	21.81
	20	132072	1/99	10	132216	1/0	-19.48	14.18	10.07	2.17	H	0.161	22.08
	15	132047	1/74	15	132197	1/0	-19.47	14.13	10.04	2.20	H	0.157	21.97
	15	132050	1/74	20	132221	1/0	-19.45	14.15	10.04	2.20	H	0.158	21.99
	20	132072	1/99	15	132243	1/0	-19.46	14.20	10.07	2.17	H	0.162	22.10
	20	132072	1/99	5	132189	1/0	-19.54	14.06	10.04	2.20	H	0.155	21.90
	5	132005	1/24	20	132122	1/0	-19.61	13.90	10.01	2.22	H	0.148	21.69
	<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132270</b>	<b>1/0</b>	<b>-19.42</b>	<b>14.24</b>	<b>10.07</b>	<b>2.17</b>	<b>H</b>	<b>0.164</b>	<b>22.14</b>
Mid	10	132025	1/49	15	132471	1/0	-20.39	13.29	10.18	2.17	H	0.135	21.30
	15	132047	1/74	10	132493	1/0	-20.42	13.26	10.18	2.17	H	0.134	21.27
	<b>10</b>	<b>132027</b>	<b>1/49</b>	<b>20</b>	<b>132472</b>	<b>1/0</b>	<b>-20.18</b>	<b>13.53</b>	<b>10.17</b>	<b>2.15</b>	<b>H</b>	<b>0.143</b>	<b>21.55</b>
	20	132072	1/99	10	132517	1/0	-20.44	13.21	10.19	2.18	H	0.132	21.22
	15	132047	1/74	15	132497	1/0	-20.46	13.22	10.18	2.17	H	0.133	21.23
	15	132050	1/74	20	132496	1/0	-20.33	13.35	10.18	2.17	H	0.137	21.36
	20	132072	1/99	15	132519	1/0	-20.40	13.28	10.18	2.17	H	0.135	21.29
	20	132072	1/99	5	132514	1/0	-20.63	13.02	10.19	2.18	H	0.127	21.03
	5	132005	1/24	20	132447	1/0	-20.28	13.43	10.17	2.15	H	0.140	21.45
	20	132072	1/99	20	132521	1/0	-20.50	13.18	10.18	2.17	H	0.132	21.19
High	10	132025	1/49	15	132597	1/0	-20.86	12.77	10.19	2.21	H	0.119	20.76
	15	132047	1/74	10	132619	1/0	-20.82	12.79	10.20	2.23	H	0.119	20.76
	10	132027	1/49	20	132572	1/0	-20.75	12.90	10.19	2.18	H	0.123	20.91
	20	132072	1/99	10	132617	1/0	-20.73	12.88	10.20	2.23	H	0.122	20.85
	15	132047	1/74	15	132597	1/0	-20.81	12.82	10.19	2.21	H	0.120	20.81
	15	132050	1/74	20	132572	1/0	-20.52	13.13	10.19	2.18	H	0.130	21.14
	20	132072	1/99	15	132594	1/0	-20.72	12.91	10.19	2.21	H	0.123	20.90
	20	132072	1/99	5	132639	1/0	-20.91	12.70	10.20	2.23	H	0.117	20.67
	5	132005	1/24	20	132572	1/0	-20.77	12.86	10.19	2.21	H	0.122	20.85
	<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132572</b>	<b>1/0</b>	<b>-20.38</b>	<b>13.27</b>	<b>10.19</b>	<b>2.18</b>	<b>H</b>	<b>0.134</b>	<b>21.28</b>

**Note:**

1. Modulation : QPSK
2. Limit : < 1 Watts

PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
BW [MHz]	Channel	RB/Offset	BW [MHz]	Channel	RB/Offset						W	dBm
10	132025	1/49	15	132145	1/0	-20.02	13.49	10.01	2.22	H	0.134	21.28
15	132047	1/74	10	132167	1/0	-20.18	13.42	10.04	2.20	H	0.134	21.26
10	132027	1/49	20	132171	1/0	-20.31	13.20	10.01	2.22	H	0.126	20.99
20	132072	1/99	10	132216	1/0	-20.25	13.41	10.07	2.17	H	0.135	21.31
15	132047	1/74	15	132197	1/0	-20.18	13.42	10.04	2.20	H	0.134	21.26
15	132050	1/74	20	132221	1/0	-20.22	13.38	10.04	2.20	H	0.132	21.22
20	132072	1/99	15	132243	1/0	-20.44	13.22	10.07	2.17	H	0.129	21.12
20	132072	1/99	5	132189	1/0	-20.28	13.32	10.04	2.20	H	0.131	21.16
5	132005	1/24	20	132122	1/0	-20.22	13.29	10.01	2.22	H	0.128	21.08
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132270</b>	<b>1/0</b>	<b>-20.23</b>	<b>13.43</b>	<b>10.07</b>	<b>2.17</b>	<b>H</b>	<b>0.136</b>	<b>21.33</b>
<b>10</b>	<b>132027</b>	<b>1/49</b>	<b>20</b>	<b>132472</b>	<b>1/0</b>	<b>-21.01</b>	<b>12.70</b>	<b>10.17</b>	<b>2.15</b>	<b>H</b>	<b>0.118</b>	<b>20.72</b>
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132572</b>	<b>1/0</b>	<b>-21.18</b>	<b>12.47</b>	<b>10.19</b>	<b>2.18</b>	<b>H</b>	<b>0.112</b>	<b>20.48</b>

Note:

1. Modulation : 16QAM
2. Limit : < 1 Watts

PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
BW [MHz]	Channel	RB/Offset	BW [MHz]	Channel	RB/Offset						W	dBm
10	132025	1/49	15	132145	1/0	-22.06	11.45	10.01	2.22	H	0.084	19.24
15	132047	1/74	10	132167	1/0	-22.16	11.44	10.04	2.20	H	0.085	19.28
10	132027	1/49	20	132171	1/0	-22.40	11.11	10.01	2.22	H	0.078	18.90
20	132072	1/99	10	132216	1/0	-22.33	11.33	10.07	2.17	H	0.084	19.23
15	132047	1/74	15	132197	1/0	-22.21	11.39	10.04	2.20	H	0.084	19.23
15	132050	1/74	20	132221	1/0	-22.15	11.45	10.04	2.20	H	0.085	19.29
20	132072	1/99	15	132243	1/0	-22.39	11.27	10.07	2.17	H	0.083	19.17
20	132072	1/99	5	132189	1/0	-22.41	11.19	10.04	2.20	H	0.080	19.03
5	132005	1/24	20	132122	1/0	-22.28	11.23	10.01	2.22	H	0.080	19.02
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132270</b>	<b>1/0</b>	<b>-22.29</b>	<b>11.37</b>	<b>10.07</b>	<b>2.17</b>	<b>H</b>	<b>0.085</b>	<b>19.27</b>
<b>10</b>	<b>132027</b>	<b>1/49</b>	<b>20</b>	<b>132472</b>	<b>1/0</b>	<b>-23.06</b>	<b>10.65</b>	<b>10.17</b>	<b>2.15</b>	<b>H</b>	<b>0.074</b>	<b>18.67</b>
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132572</b>	<b>1/0</b>	<b>-23.22</b>	<b>10.43</b>	<b>10.19</b>	<b>2.18</b>	<b>H</b>	<b>0.070</b>	<b>18.44</b>

Note:

1. Modulation : 64QAM
2. Limit : < 1 Watts

PCC			SCC			Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	E.I.R.P	
BW [MHz]	Channel	RB/Offset	BW [MHz]	Channel	RB/Offset						W	dBm
10	132025	1/49	15	132145	1/0	-24.15	9.36	10.01	2.22	H	0.052	17.15
15	132047	1/74	10	132167	1/0	-24.34	9.26	10.04	2.20	H	0.051	17.10
10	132027	1/49	20	132171	1/0	-24.36	9.15	10.01	2.22	H	0.049	16.94
20	132072	1/99	10	132216	1/0	-24.41	9.25	10.07	2.17	H	0.052	17.15
15	132047	1/74	15	132197	1/0	-24.40	9.20	10.04	2.20	H	0.051	17.04
15	132050	1/74	20	132221	1/0	-24.26	9.34	10.04	2.20	H	0.052	17.18
20	132072	1/99	15	132243	1/0	-24.41	9.25	10.07	2.17	H	0.052	17.15
20	132072	1/99	5	132189	1/0	-24.44	9.16	10.04	2.20	H	0.050	17.00
5	132005	1/24	20	132122	1/0	-24.40	9.11	10.01	2.22	H	0.049	16.90
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132270</b>	<b>1/0</b>	<b>-24.42</b>	<b>9.24</b>	<b>10.07</b>	<b>2.17</b>	<b>H</b>	<b>0.052</b>	<b>17.14</b>
<b>10</b>	<b>132027</b>	<b>1/49</b>	<b>20</b>	<b>132472</b>	<b>1/0</b>	<b>-25.04</b>	<b>8.67</b>	<b>10.17</b>	<b>2.15</b>	<b>H</b>	<b>0.047</b>	<b>16.69</b>
<b>20</b>	<b>132072</b>	<b>1/99</b>	<b>20</b>	<b>132572</b>	<b>1/0</b>	<b>-25.31</b>	<b>8.34</b>	<b>10.19</b>	<b>2.18</b>	<b>H</b>	<b>0.043</b>	<b>16.35</b>

Note:

1. Modulation : 256QAM
2. Limit : < 1 Watts



### 9.3 Conducted Spurious Emissions

Operating frequency	PCC				SCC				Measurement Maximum Frequency (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)
	BW [MHz]	Ch.	Freq. (MHz)	RB/Offset	BW [MHz]	Ch.	Freq. (MHz)	RB/Offset				
Low	20	132072	1720.0	1/99	5	132189	1731.7	1/0	8.0215	28.591	-75.92	-47.33
Mid	15	132325	1745.3	1/74	20	132496	1762.4	1/0	8.3156	28.591	-75.21	-46.62
High	20	132423	1755.1	1/99	15	132594	1772.2	1/0	8.0065	28.591	-75.43	-46.84
Low	20	132072	1720.0	1/0	5	132189	1731.7	1/24	9.1451	28.591	-75.42	-46.83
Mid	15	132325	1745.3	1/0	20	132496	1762.4	1/99	8.2717	28.591	-75.18	-46.59
High	20	132423	1755.1	1/0	15	132594	1772.2	1/74	8.3091	28.591	-75.68	-47.09
Low	20	132072	1720.0	100/0	20	132270	1739.8	100/0	8.8719	28.591	-75.65	-47.06
Mid	20	132323	1745.1	100/0	20	132521	1764.9	100/0	5.2019	28.591	-75.74	-47.15
High	20	132374	1750.2	100/0	20	132572	1770.0	100/0	9.1251	28.591	-74.85	-46.26

Note:

1. Modulation : QPSK
2. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
3. Factors for frequency :

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

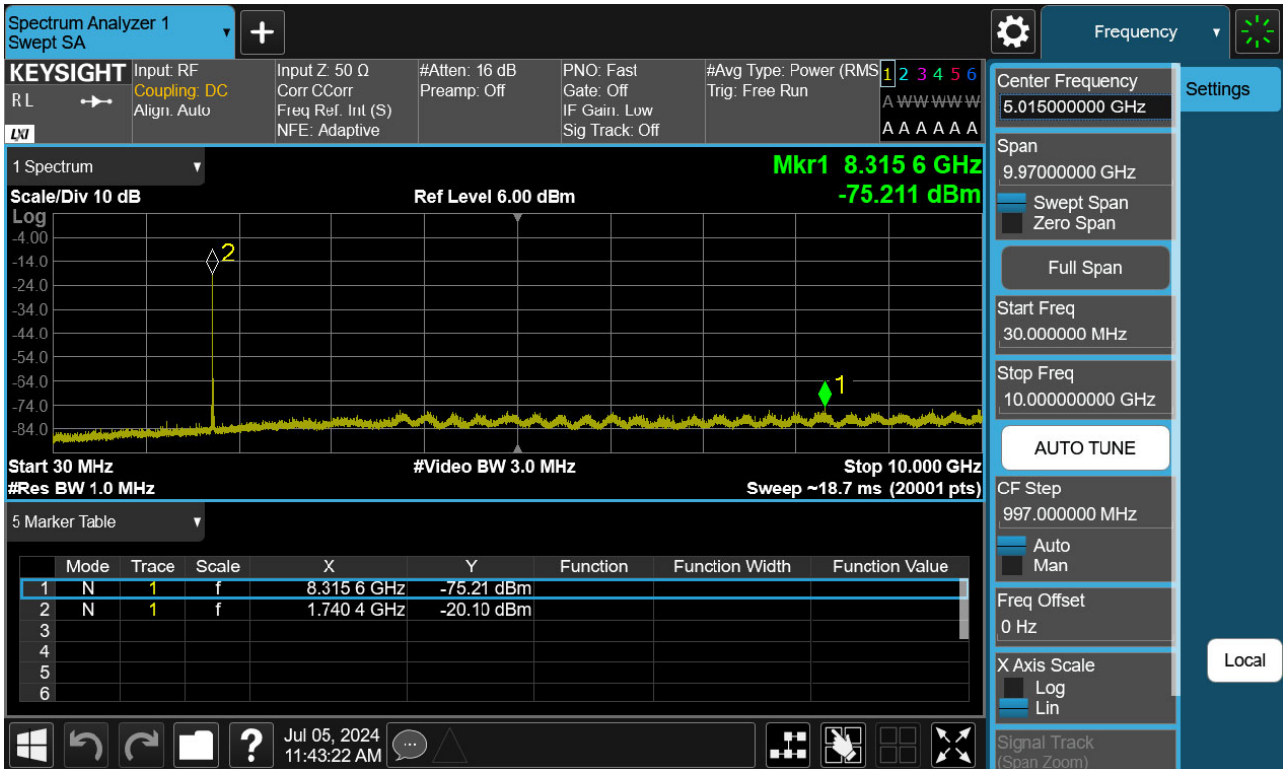
4. Limit : -13.0 dBm

Frequency Range : 30 MHz ~ 10 GHz

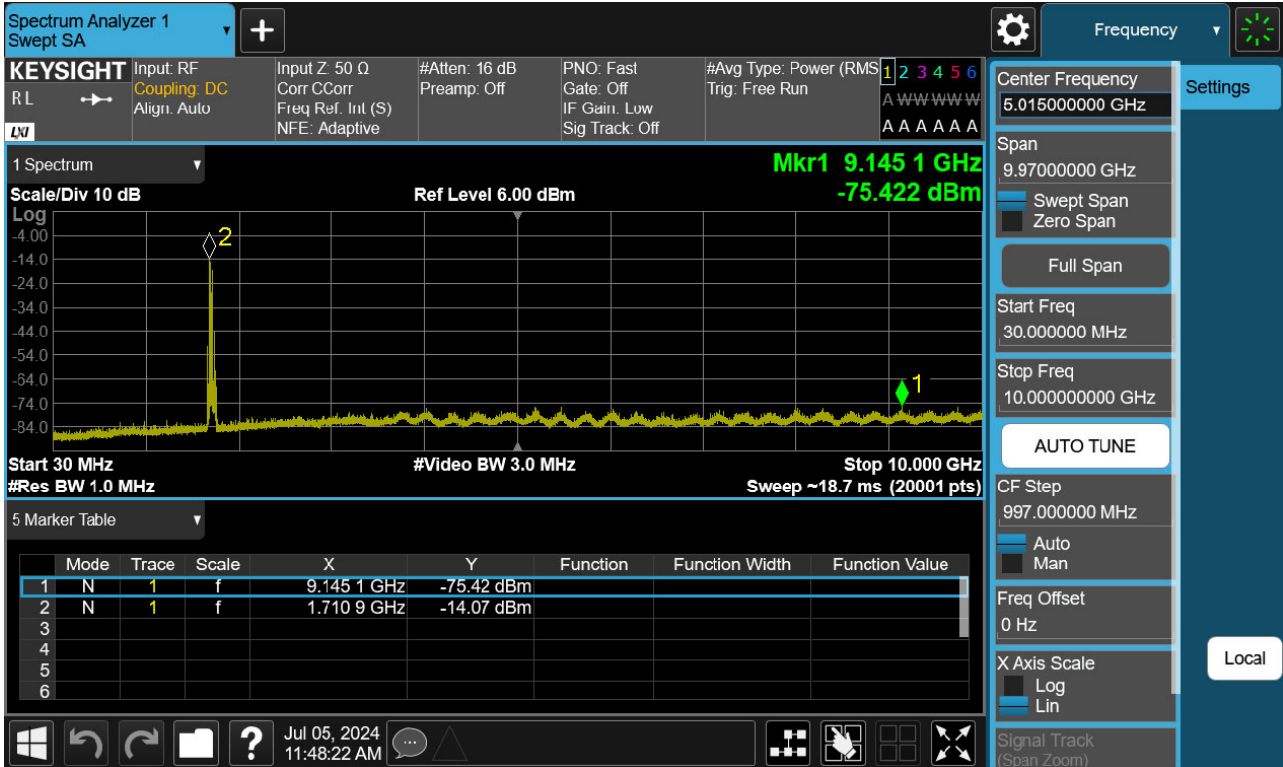
PCC 15 MHz Ch132050 RB1 Offset74 SCC 20 MHz Ch132221 RB1 Offset0



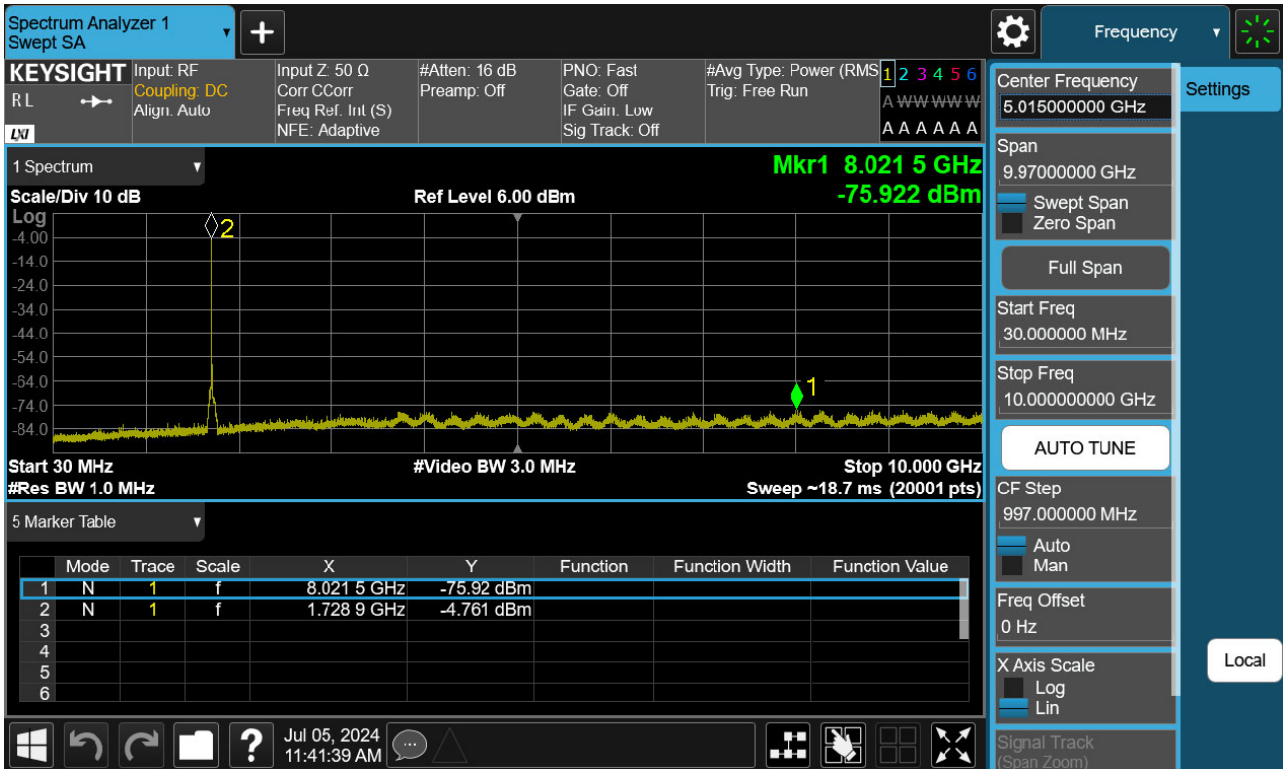
PCC 20 MHz Ch132348 RB1 Offset99 SCC 15 MHz Ch132519 RB1 Offset0



PCC 10 MHz Ch132477 RB1 Offset49 SCC 15 MHz Ch132597 RB1 Offset0



PCC 15 MHz Ch132050 RB1 Offset0 SCC 20 MHz Ch132221 RB1 Offset99



PCC 20 MHz Ch132348 RB1 Offset0 SCC 15 MHz Ch132519 RB1 Offset74

