

FCC SAR TEST REPORT

FCC ID : UZ7TCX01G
Equipment : Touch Computer
Brand Name : ZEBRA
Model Name : TCX01G
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Aug. 06, 2026 and testing was started from Aug. 11, 2026 and completed on Sep. 16, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA662706B	01	Initial issue of report	Sep. 29, 2026



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Zebra Technologies Corporation, Touch Computer, TCX01G, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 15mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)					
Licensed	GSM850	1.28	1.28	1.29		1.59	3.53
	GSM1900	1.07	0.47	1.29	3.43		
	WCDMA II	1.03	0.36	1.28	3.46		
	WCDMA IV	1.11	0.62	1.02			
	WCDMA V	1.16	0.89	0.59			
	LTE Band 7	1.24	1.18	1.24	3.41		
	LTE Band 12/17	0.96	0.29	0.63			
	LTE Band 13	1.02	0.41	0.71			
	LTE Band 14	0.96	0.55	0.94			
	LTE Band 2/25	0.94	0.83	1.28	3.43		
	LTE Band 5/26	1.05	0.82	1.01			
	LTE Band 30	0.74	0.93	1.23	3.48		
	LTE Band 4/66	1.12	0.89	1.28	2.87		
	LTE Band 71	0.78	0.23	0.56			
	LTE Band 106	0.41	0.24	0.32			
	LTE Band 70	0.91	0.74	0.91			
	LTE Band 38/41	0.80	0.76	1.26			
	LTE Band 48	1.06	1.26	1.28			
	LTE Band 53	0.67	0.49	1.25			
	FR1 n7	1.18	1.22	1.13	3.14		
	FR1 n12	0.91	0.30	0.36			
	FR1 n13	1.04	0.55	0.50			
	FR1 n14	1.26	0.65	0.57			
	FR1 n2/n25	0.76	0.87	1.30	3.43		
	FR1 n5/n26	1.12	0.99	0.85			
	FR1 n30	0.67	0.81	1.23	3.26		
	FR1 n66	1.15	1.12	1.17	3.47		
	FR1 n70	0.87	0.53	1.06			
	FR1 n71	0.79	0.26	0.30			
	FR1 n38/n41	1.22	1.29	1.25			
	FR1 n48	1.28	1.27	0.99	2.23		
	FR1 n77/n78	1.26	1.29	1.27	3.49		
	FR1 n53	0.87	1.00	1.12			
DTS	2.4GHz WLAN	1.28	1.28	1.28	1.52		
NII	5GHz WLAN	1.28	1.29	1.27	2.19		
6CD / 6VL	6GHz WLAN	0.52	0.47	0.13	0.34		
DSS	Bluetooth	0.33	0.16	0.33			
DSS	RFID		0.72	1.22			
DXX	NFC				0.05		
Equipment Class	Frequency Band	Head Reported APD (mW/cm^2)	Body-worn Reported APD (mW/cm^2)	Hotspot Reported APD (mW/cm^2)	Product Specific Reported APD (mW/cm^2)	Reported PD (mW/cm^2)	
6CD	6GHz WLAN	0.39	0.38	0.10	0.80	0.78	
Date of Testing:		2026/08/11 ~ 2026/09/16					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Carlie Tsai



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Touch Computer
Brand Name	ZEBRA
Model Name	TCX01G
FCC ID	UZ7TCX01G
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 53: 2483.5 MHz ~ 2495 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 70: 1695 MHz ~ 1710 MHz LTE Band 71: 663 MHz ~ 698 MHz LTE Band 106: 896 MHz ~ 901 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n53: 2483.5 MHz ~ 2495 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz RFID: 902 MHz ~ 928 MHz

Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK RFID: ASK
HW Version	EV1
SW Version	eris_A15_userdebug_GMS_RelKey_2026-07-31-203909_pilot_SE
FW Version	eris_A15_userdebug_GMS_RelKey_2026-07-31-203909_pilot_SE
MFD	05JUN26
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. The device implements the smart transmit power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, Limbs) except NFC operation, the smart transmit feature will manage to ensure the power level not exceeding the associated power table 2. The variant report includes spot-check worst-case found in original report, Sporton SAR Report No. FA5O3114B, for some bands may change the output powers refer to section 3, for these bands were full testing in this report. 3. The max SAR summary was chosen worst result between original SAR Report No. FA5O3114B and this report.	

Sample list	Scanner	Camera	Bumper
Sample1	SE4730	Main	w/o
Sample2	SE4780	Main+Indirect Time-of-Flight	w/o
Sample3	SE4780	Main+Ultra wide Camera	w/o
Sample4	SE56	Main+Indirect Time-of-Flight	w/o
Sample5	SE56	Main+Ultra wide Camera	w/o
Sample6	SE4730	Main	w/
Sample7	SE4780	Main+Indirect Time-of-Flight	w/
Sample8	SE4780	Main+Ultra wide Camera	w/
Sample9	SE56	Main+Indirect Time-of-Flight	w/
Sample10	SE56	Main+Ultra wide Camera	w/

Accessories Information				
AC Adapter 1 (TYPE C Wall Charger 1)	Brand Name	Zebra	Part Number	PWR-WUA5V45W1US
AC Adapter 2 (TYPE A Wall Charger 2)	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
AC Adapter 3	Brand Name	Zebra	Part Number	PWR-WUA5V12W0WW
AC Adapter 4	Brand Name	Zebra	Part Number	CHG-AUTO-USB1-01
Trigger Handle 1	Brand Name	Zebra	Part Number	TRG-TC5A-ELEC-01
Trigger Handle 2	Brand Name	Zebra	Part Number	TRG-TC7A-ELEC-01
Trigger Handle 3	Brand Name	Zebra	Part Number	TRG-TC5AB-ELEC-01
Arm Mount 1	Brand Name	Zebra	Part Number	SG-TC5A-WMADP1-01
Arm Mount 2	Brand Name	Zebra	Part Number	SG-TC5A-WMADP2-01
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01
Rugged boot	Brand Name	Zebra	Part Number	SG-TC5AEXO-01
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
Earphone 2 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01
Earphone 3 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH
Battery	Brand Name	Zebra	Part Number	BT-000542-502A
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
USB Cable 1 USB-C to C Cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 USB-A to C Cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable 3	Brand Name	Zebra	Part Number	CBL-TC2X-USBC-01
USB Cable 4 USB-A to C Cable	Brand Name	Zebra	Part Number	CBL-TC2Y-USBC90A-01

2.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																										
FCC ID		UZ7TCX01G																																																																								
Equipment Name		Touch Computer																																																																								
Operating Frequency Range of each LTE transmission band		LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 53: 2483.5 MHz ~ 2495 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 70: 1695 MHz ~ 1710 MHz LTE Band 71: 663 MHz ~ 698 MHz LTE Band 106: 896 MHz ~ 901 MHz																																																																								
Channel Bandwidth		LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 53: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 70: 5MHz, 10MHz, 15MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 106: 1.4MHz, 3MHz																																																																								
uplink modulations used		QPSK / 16QAM / 64QAM / 256QAM																																																																								
LTE Voice / Data requirements		Data only																																																																								
LTE MPR permanently built-in by design		<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>			Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																			
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																			
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																			
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																			
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																			
256 QAM	≥ 1						≤ 5																																																																			
LTE A-MPR		In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																								
Spectrum plots for RB configuration		A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																								
Power reduction applied to satisfy SAR compliance		The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description.																																																																								
LTE Carrier Aggregation Combinations		Intra-Band possible combinations and the detail power measurement please referred to original report, report no. FA5O3114B section 12.																																																																								
LTE Carrier Aggregation Additional Information		This device supports maximum of 2 carriers in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.																																																																								

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 25 MHz		Bandwidth 30 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Channel #		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23305		790.5		23330		793		23330		793	
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	

LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #			Freq.(MHz)		Channel #			Freq.(MHz)			
L	27685			2307.5		27710			2310			
M	27710			2310								
H	27735			2312.5								
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L M	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H M	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
L M	55810	3607	55815	3607.5	55820	3608	55830	3609				
M H	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 53												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	60147	2484.2	60155	2485	60165	2486	60190	2488.5				
M	60198	2489.3	60198	2489.3	60198	2489.3	60198	2489.3				
H	60248	2494.3	60240	2493.5	60230	2492.5	60205	2490				



LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 70												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)	
L	132997		1697.5		133022		1700		133047		1702.5	
M	133047		1702.5		133047		1702.5					
H	133097		1707.05		133072		1705					
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				
LTE Band 106												
	Bandwidth 1.4 MHz					Bandwidth 3 MHz						
	Channel #		Freq.(MHz)			Channel #		Freq.(MHz)				
L	134314		898.2			134322		899				
M	134322		899									
H	134330		899.8									



2.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information								
FCC ID	UZ7TCX01G							
Equipment Name	Touch Computer							
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz							
	5G NR n5: 824 MHz ~ 849 MHz							
	5G NR n7: 2500 MHz ~ 2570 MHz							
	5G NR n12: 699 MHz ~ 716 MHz							
	5G NR n13: 777 MHz ~ 787 MHz							
	5G NR n14: 788 MHz ~ 798 MHz							
	5G NR n25: 1850 MHz ~ 1915 MHz							
	5G NR n26: 814 MHz ~ 849 MHz							
	5G NR n30: 2305 MHz ~ 2315 MHz							
	5G NR n38: 2570 MHz ~ 2620 MHz							
	5G NR n41: 2496 MHz ~ 2690 MHz							
	5G NR n48: 3550 MHz ~ 3700 MHz							
	5G NR n53: 2483.5 MHz ~ 2495 MHz							
	5G NR n66: 1710 MHz ~ 1780 MHz							
	5G NR n70: 1695 MHz ~ 1710 MHz							
Channel Bandwidth	5G NR n71: 663 MHz ~ 698 MHz							
	5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz							
	5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz							
	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz							
	5G NR n12: 5MHz, 10MHz, 15MHz							
	5G NR n13: 5MHz, 10MHz							
	5G NR n14: 5MHz, 10MHz							
	5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz							
	5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n30: 5MHz, 10MHz							
	5G NR n38: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz							
	5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
	5G NR n48: 10MHz, 20MHz, 30MHz, 40MHz							
5G NR n53: 10MHz								
5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz								
5G NR n70: 15MHz								
5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz								
5G NR n77/n78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz								
SCS	FDD: SCS15KHz, TDD: SCS30KHz							
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM							
A-MPR (Additional MPR) disabled for SAR Testing?	Yes							
LTE Anchor Bands for n2	LTE B4/5/7/12/13/14/30/48/66/71							
LTE Anchor Bands for n5	LTE B2/7/12/14/30/48/66/71							
LTE Anchor Bands for n7	LTE B2/4/5/7/12/13/66							
LTE Anchor Bands for n12	LTE B2/5/7/30/48/66/71							
LTE Anchor Bands for n14	LTE B2/30/66							
LTE Anchor Bands for n25	LTE B5/7/12/13/26/66/71							
LTE Anchor Bands for n26	LTE B7							
LTE Anchor Bands for n30	LTE B2/5/12/14/66							
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71							
LTE Anchor Bands for n41	LTE B2/4/5/12/25/26/66/71							
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/30/48/71							
LTE Anchor Bands for n71	LTE B2/5/7/12/13/48/66							
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/25/30/41/66/71							
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/26/38/41/66/71							
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900



NR Band 5																						
	Bandwidth 5MHz			Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz										
	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)								
L	165300		826.5	165800		829		166300		831.5		166800		834								
M	167300		836.5	167300		836.5		167300		836.5		167300		836.5								
H	169300		846.5	168800		844		168300		841.5		167800		839								
NR Band 7																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525						
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535						
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545						
NR Band 12																						
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz													
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)											
L	140300		701.5		140800		704		141300		706.5											
M	141500		707.5		141500		707.5		141500		707.5											
H	142700		713.5		142200		711		141700		708.5											
NR Band 13																						
	Bandwidth 5MHz						Bandwidth 10MHz				Bandwidth 15MHz											
	Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
L	155900		779.5				156400				782											
M	156400		782																			
H	156900		784.5																			
NR Band 14																						
	Bandwidth 5MHz						Bandwidth 10MHz				Bandwidth 15MHz											
	Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
L	158100		790.5				158600				793											
M	158600		793																			
H	159100		795.5																			
NR Band 25																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870								
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5								
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895								
NR Band 26																						
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz												
	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)										
L	163300		816.5	163800		819	164300		821.5	164800		824										
M	166300		831.5	166300		831.5	166300		831.5	166300		831.5										
H	169300		846.5	168800		844	168300		841.5	167800		839										
NR Band 30																						
	Bandwidth 5MHz						Bandwidth 10MHz				Bandwidth 15MHz											
	Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
L	461500		2307.5				462000				2310											
M	462000		2310																			
H	462500		2312.5																			
NR Band 38																						
	Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz			Bandwidth 30MHz			Bandwidth 40MHz									
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)								
L	515004	2575.02		515502	2577.51		516000	2580		517002	2585.01		518004	2590.02								
M	519000	2595		519000	2595		519000	2595		519000	2595		519000	2595								
H	522996	2614.98		522498	2612.49		522000	2610		520998	2604.99		519996	2599.98								
NR Band 41																						
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640



NR Band 48																								
Bandwidth10MHz			Bandwidth20MHz				Bandwidth30MHz				Bandwidth 40MHz													
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)												
L	637000	3555	637334	3560.01	637668	3565.02	638000	3570																
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99																
H	646332	3694.98	646000	3690	645666	3684.99	645332	3679.98																
NR Band 53																								
Bandwidth10MHz																								
	Ch. #						Freq. (MHz)																	
L	497700						2488.5																	
M	497860						2489.3																	
H	798000						2490																	
NR Band 66																								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz												
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730										
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745										
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760										
NR Band 70																								
Bandwidth 15MHz																								
	Ch. #						Freq. (MHz)																	
L	340500						1702.5																	
M																								
H																								
NR Band 71																								
Bandwidth 5MHz		Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz														
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	133100	665.5	133600	668	13410	670.5	134600	673																
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5																
H	139100	695.5	138600	693	13810	690.5	137600	688																
NR Band 77_Part 270																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78_Part 270																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		
NR Band 77/78_Part 27Q																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		
NR Band 77/78_Part 96																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637500	3562.5	637668	3565.02	638000	3570	638334	3575.01	638668	3580.02	639000	3585	639334	3590.01	639668	3595.02	640000	3600
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645832	3687.48	645666	3684.99	645332	3679.98	645000	3675	644666	3669.99	644332	3664.98	644000	3660	643666	3654.99	643332	3649.98

3. Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN/WLAN/BT and RFID transmitter to ensure the product in compliance with RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement. Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Terminologies in this report>

Plimit	The time-averaged RF power which corresponds to SAR_design_target.
Pmax	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR char	Plimit for all the technologies/bands for all applicable DSI

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for f < 6 GHz.

<SAR design target>

Band	Antenna	Head	Hotspot	Body Worn / Extremity	Extremity	Sensor Off	Power tolerance (dBm)
		DSI2	DSI3	DSI1	DSI1: RFID not trigger DSI4: RFID trigger	DSI0	
GSM850 GPRS 1TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 GPRS 2TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 GPRS 3TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 GPRS 4TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 EDGE 1TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 EDGE 2TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 EDGE 3TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM850 EDGE 4TX	8	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 GPRS 1TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 GPRS 2TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 GPRS 3TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 GPRS 4TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 EDGE 1TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 EDGE 2TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 EDGE 3TX	1	1.03	1.03	1.03	2.77	1.03	1.00
GSM1900 EDGE 4TX	1	1.03	1.03	1.03	2.77	1.03	1.00
WCDMA II	1	1.03	1.03	1.03	2.77	1.03	1.00
WCDMA IV	1	1.03	1.03	1.03	2.77	1.03	1.00
WCDMA V	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B2	1	1.03	1.03	1.03	2.77	1.03	1.00
LTE B2	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B4	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B4	1	1.03	1.03	1.03	2.77	1.03	1.00
LTE B5	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B5	10	1.03	1.03	1.03	2.77	1.03	1.00
LTE B7	8	1.03	1.03	1.03	2.77	1.03	1.00

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LTE B7	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B12	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B13	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B14	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B17	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B25	1	1.03	1.03	1.03	2.77	1.03	1.00
LTE B25	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B26	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B30	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B30	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B66	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B66	1	1.03	1.03	1.03	2.77	1.03	1.00
LTE B70	1	1.03	1.03	1.03	2.77	1.03	1.00
LTE B71	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B106	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B38	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B38	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B41 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B41 (PC3)	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B41 (PC2)	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B41 (PC2)	5	1.03	1.03	1.03	2.77	1.03	1.00
LTE B48 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
LTE B48 (PC3)	9	1.03	1.03	1.03	2.77	1.03	1.00
LTE B53 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n2	1	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n2	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n5	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n5	10	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n7	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n7	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n12	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n13	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n14	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n25	1	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n25	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n26	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n30	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n30	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n66	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n66	1	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n70	1	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n71	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n38	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n38	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC3)	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC2)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC2)	5	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC3)(SRS)	3	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n41 (PC3)(SRS)	4	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n48 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n48 (PC3)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n53 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC2)	8	1.03	1.03	1.03	2.77	1.03	1.00

FR1 n77 (PC2)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)(Part96)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)(Part96)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)(SRS)	3	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n77 (PC3)(SRS)	4	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC3)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC3)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC2)	8	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC2)	9	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC3)(SRS)	3	1.03	1.03	1.03	2.77	1.03	1.00
FR1 n78 (PC3)(SRS)	4	1.03	1.03	1.03	2.77	1.03	1.00

Band	Head	Hotspot	Body worn	Extremity	Sensor off	Device Uncertainty (dB)
	DSI2	DSI3	DSI1	DSI1: RFID not trigger DSI4: RFID trigger	DSI0	
WLAN2.4GHz	0.920	0.920	0.920	2.480	0.920	1.5
WLAN5.2GHz	0.920	0.920	0.920	2.480	0.920	1.5
WLAN5.3GHz	0.920	0.920	0.920	2.480	0.920	1.5
WLAN5.5GHz	0.920	0.920	0.920	2.480	0.920	1.5
WLAN5.8GHz	0.920	0.920	0.920	2.480	0.920	1.5
WLAN6G UNII5	0.920	0.920	0.920	2.480	0.920	1.5
WLAN6G UNII6	0.920	0.920	0.920	2.480	0.920	1.5
WLAN6G UNII7	0.920	0.920	0.920	2.480	0.920	1.5
WLAN6G UNII8	0.920	0.920	0.920	2.480	0.920	1.5
RFID	1.030	1.030	1.030	2.780	1.030	1
Bluetooth	0.920	0.920	0.920	2.480	0.920	1.5

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

Band	Antenna	Duty cycle	Head	Hotspot	Body Worn / (Extremity: RFID not trigger)	Extremity (RFID Trigger)	Sensor OFF	Pmax*
			(DSI:2)	(DSI3)	(DSI1)	(DSI4)	(DSI0)	
GSM850(3 Tx slots)	8	37.50%	23.70	24.70	24.70	28.90	25.70	25.70
GSM1900(3 Tx slots)	1	37.50%	24.50	22.00	22.40	22.40	23.70	23.70
WCDMA II	1	100.00%	24.90	21.40	21.40	21.40	24.00	24.00
WCDMA IV	1	100.00%	24.60	25.30	25.30	25.30	24.00	24.00
WCDMA V	8	100.00%	24.40	25.60	25.60	27.80	24.00	24.00
LTE B2	1	100.00%	25.30	21.70	21.70	21.70	24.00	24.00
LTE B2	5	100.00%	29.60	23.40	23.40	23.40	24.00	24.00
LTE B4	5	100.00%	32.50	24.00	24.60	24.60	24.00	24.00
LTE B4	1	100.00%	24.60	24.00	24.00	24.00	24.00	24.00
LTE B5	8	100.00%	22.20	23.50	25.90	27.60	24.00	24.00
LTE B5	10	100.00%	40.40	35.00	35.00	35.00	24.00	24.00
LTE B7	8	100.00%	23.20	22.40	23.00	23.00	24.00	24.00
LTE B7	5	100.00%	30.70	22.10	25.80	25.80	24.00	24.00
LTE B12	8	100.00%	26.70	28.30	28.30	28.30	24.00	24.00
LTE B13	8	100.00%	26.30	27.40	27.40	27.40	24.00	24.00
LTE B14	8	100.00%	26.00	27.70	27.70	27.80	24.00	24.00
LTE B17	8	100.00%	26.70	28.30	28.30	28.30	24.00	24.00
LTE B25	1	100.00%	25.30	21.70	21.70	21.70	24.00	24.00
LTE B25	5	100.00%	29.60	23.40	23.40	23.40	24.00	24.00
LTE B26	8	100.00%	22.20	23.50	25.90	27.60	24.00	24.00
LTE B30	8	100.00%	26.80	21.90	23.30	23.30	23.50	23.50
LTE B30	5	100.00%	32.20	25.30	25.30	25.30	23.50	23.50
LTE B66	5	100.00%	32.50	24.00	24.60	24.60	24.00	24.00
LTE B66	1	100.00%	24.60	24.00	24.00	24.00	24.00	24.00
LTE B70	1	100.00%	26.50	25.40	25.40	25.40	24.00	24.00
LTE B70	5	100.00%	32.00	24.60	24.60	24.60	24.00	24.00
LTE B71	8	100.00%	27.50	28.40	28.40	28.40	24.50	24.50
LTE B106	8	100.00%	29.00	30.10	31.30	33.70	24.00	24.00
LTE B38	8	63.30%	26.20	19.50	22.20	22.20	22.00	22.00
LTE B38	5	63.30%	31.20	25.20	25.20	25.20	22.00	22.00 / 21.00 ⁽⁴⁾
LTE B41 (PC3)	8	63.30%	26.20	19.50	22.20	22.20	22.00	22.00
LTE B41 (PC3)	5	63.30%	31.20	25.20	25.20	25.20	22.00	22.00 / 21.00 ⁽⁴⁾
LTE B41 (PC2)	8	43.30%	26.20	19.50	22.20	22.20	21.40	21.40
LTE B41 (PC2)	5	43.30%	31.20	25.20	25.20	25.20	22.40	22.40 / 19.40 ⁽⁴⁾
LTE B48 (PC3)	8	63.30%	23.50	21.60	23.30	23.40	20.00	20.00
LTE B48 (PC3)	9	63.30%	23.10	22.50	22.50	22.50	20.00	20.00
LTE B53 (PC3)	8	63.30%	25.70	24.00	24.00	24.00	22.00	22.00
FR1 n2	1	100.00%	26.30	21.70	21.70	21.70	24.00	24.00
FR1 n2	5	100.00%	30.10	23.20	24.40	24.40	24.00	24.00
FR1 n5	8	100.00%	23.70	24.80	24.80	26.70	24.00	24.00
FR1 n5	10	100.00%	38.70	35.00	35.00	35.00	24.00	24.00
FR1 n7	8	100.00%	25.90	24.10	24.50	24.50	24.00	24.00
FR1 n7	5	100.00%	30.40	21.40	21.40	25.10	24.00	24.00
FR1 n12	8	100.00%	26.40	27.40	27.40	27.40	24.00	24.00
FR1 n13	8	100.00%	25.90	26.90	26.90	26.90	24.00	24.00
FR1 n14	8	100.00%	25.80	27.00	27.00	27.30	24.00	24.00
FR1 n25	1	100.00%	26.30	21.70	21.70	21.70	24.00	24.00
FR1 n25	5	100.00%	30.10	23.20	24.40	24.40	24.00	24.00
FR1 n26	8	100.00%	23.70	24.80	24.80	26.70	24.00	24.00
FR1 n30	8	100.00%	26.30	22.30	23.80	23.80	23.50	23.50
FR1 n30	5	100.00%	32.50	24.80	24.80	24.80	23.50	23.50

FR1 n66	5	100.00%	29.80	23.10	23.10	23.10	24.00	24.00
FR1 n66	1	100.00%	25.40	24.90	24.90	24.90	24.00	24.00
FR1 n70	1	100.00%	27.30	27.10	27.10	27.10	24.00	24.00
FR1 n70	5	100.00%	33.30	24.20	24.20	24.20	24.00	24.00
FR1 n71	8	100.00%	26.90	27.00	27.00	27.00	24.00	24.00
FR1 n38	8	100.00%	22.90	22.50	23.10	23.10	24.00	24.00
FR1 n38	5	100.00%	29.70	22.10	23.00	25.40	24.00	24.00
FR1 n41 (PC3)	8	100.00%	22.90	22.50	23.10	23.10	24.00	24.00
FR1 n41 (PC3)	5	100.00%	29.70	22.10	23.00	25.40	24.00	24.00
FR1 n41 (PC2)	8	50.00%	22.90	22.50	23.10	23.10	22.00	22.00
FR1 n41 (PC2)	5	50.00%	29.70	22.10	23.00	25.40	22.00	22.00
FR1 n41 (PC3)(SRS)	3	100.00%	35.90	22.70	22.70	22.70	23.00	23.00
FR1 n41 (PC3)(SRS)	4	100.00%	25.50	27.60	27.60	27.60	22.00	22.00
FR1 n48 (PC3)	8	100.00%	20.60	19.00	19.00	24.10	22.00	22.00
FR1 n48 (PC3)	9	100.00%	24.10	20.90	20.90	22.70	22.00	22.00
FR1 n53 (PC3)	8	100.00%	26.50	23.60	25.80	25.80	23.00	23.00
FR1 n77 (PC3)	8	100.00%	19.30	19.20	19.20	21.40	24.00	24.00
FR1 n77 (PC3)	9	100.00%	22.10	18.60	21.90	22.20	24.00	24.00
FR1 n77 (PC2)	8	50.00%	19.30	19.20	19.20	21.40	22.00	22.00
FR1 n77 (PC2)	9	50.00%	22.10	18.60	21.90	22.20	22.00	22.00
FR1 n77 (PC3)(Part96)	8	100.00%	19.30	19.20	19.20	21.40	21.00	21.00
FR1 n77 (PC3)(Part96)	9	100.00%	22.10	18.60	21.90	22.20	21.00	21.00
FR1 n77 (PC3)(SRS)	3	100.00%	28.00	19.40	21.10	21.10	24.00	24.00
FR1 n77 (PC3)(SRS)	4	100.00%	23.60	17.90	19.60	19.60	22.00	22.00
FR1 n78 (PC3)	8	100.00%	19.30	19.20	19.20	21.40	24.00	24.00
FR1 n78 (PC3)	9	100.00%	22.10	18.60	21.90	22.20	24.00	24.00
FR1 n78 (PC2)	8	50.00%	19.30	19.20	19.20	21.40	22.00	22.00
FR1 n78 (PC2)	9	50.00%	22.10	18.60	21.90	22.20	22.00	22.00
FR1 n78 (PC3)(SRS)	3	100.00%	28.00	19.40	21.10	21.10	24.00	24.00
FR1 n78 (PC3)(SRS)	4	100.00%	23.60	17.90	19.60	19.60	22.00	22.00

Band	Duty cycle	Head	Hotspot	Body Worn / (Extremity: RFID not trigger)	Extremity (RFID Trigger)	Sensor OFF	Pmax*
		(DSI2)	(DSI3)	(DSI1)	(DSI4)	(DSI0)	
WLAN2.4G	100.00%	21.8	19.5	20.6	27.7	25.2	21.5
WLAN5.2G	100.00%	18.3	17.7	18.5	21.4	21.9	19.0
WLAN5.3G	100.00%	18.3		18.5	21.4	21.9	19.0
WLAN5.5G	100.00%	18.3		18.5	21.4	21.9	19.0
WLAN5.8G	100.00%	18.3	17.7	18.5	21.4	21.9	20.0
WLAN6G UNII5_SP_LPI	100.00%	15.5		12.5	12.5	25.2	19.0
WLAN6G UNII6_SP_LPI	100.00%	15.5		12.5	12.5	25.2	17.0
WLAN6G UNII7_SP_LPI	100.00%	15.5		12.5	12.5	25.2	19.0
WLAN6G UNII8_SP_LPI	100.00%	15.5		12.5	12.5	25.2	15.5
WLAN6G UNII5_VLP	100.00%	15.5	12.5	12.5	12.5	25.2	7.5
WLAN6G UNII6_VLP	100.00%	15.5	12.5	12.5	12.5	25.2	8.0
WLAN6G UNII7_VLP	100.00%	15.5	12.5	12.5	12.5	25.2	9.5
WLAN6G UNII8_VLP	100.00%	15.5	12.5	12.5	12.5	25.2	9.5
RFID	100.00%		25.0	28.7	29.5	31.2	26.0
Bluetooth	83.30%	19.6	22.0	22.5	24	44.1	13.7

Note:

1. Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty.
2. The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.
3. above Plimit is single chain output power, MIMO = single chain power plus 3dB
4. the Pmax value for Head.



4. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

5.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

6. Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

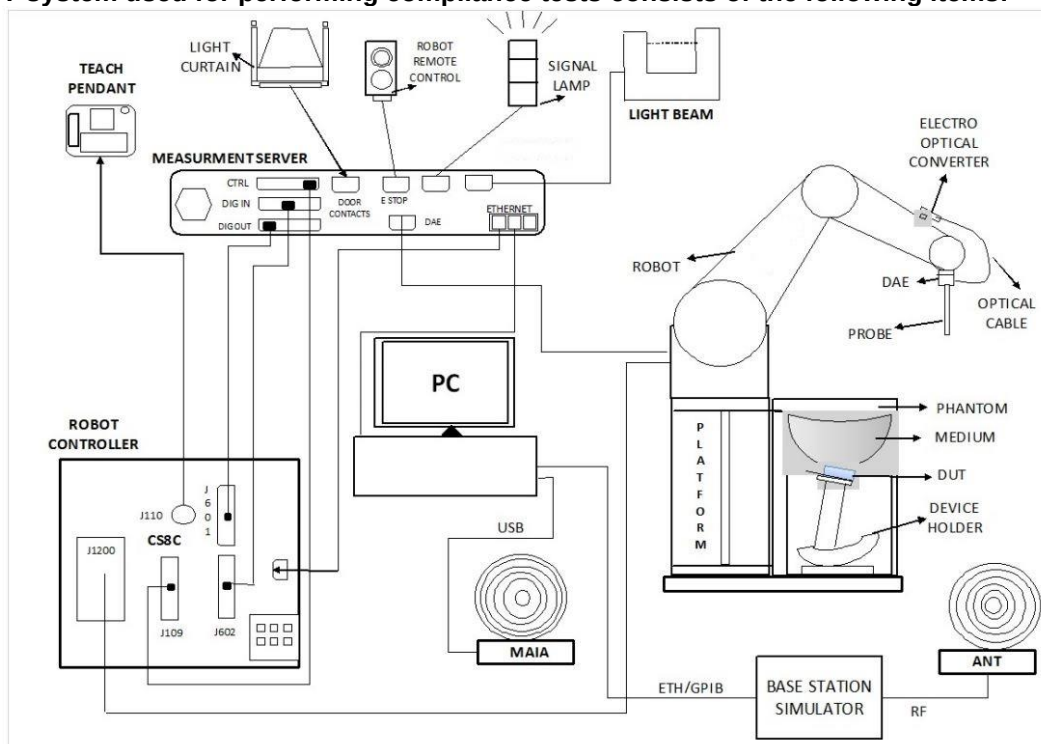
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory				
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan				
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR11-HY	SAR14-HY	SAR17-HY	SAR20-HY
	SAR04-HY	SAR05-HY	SAR09-HY	SAR12-HY	SAR15-HY	SAR18-HY	SAR21-HY
	SAR06-HY		SAR10-HY	SAR13-HY	SAR16-HY	SAR19-HY	SAR22-HY

7.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

< ES3DV3 Probe >

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – > 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

< EX3DV4 Probe >

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – > 6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

7.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

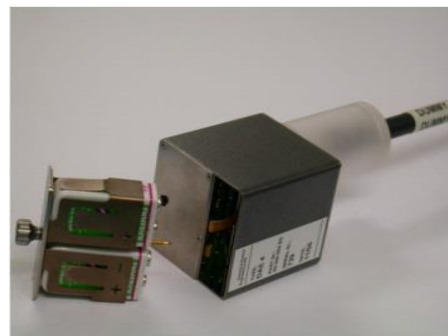


Fig 5.1 Photo of DAE

7.4 Phantom

< SAM Twin Phantom >

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

< ELI Phantom >

Shell Thickness	2 ± 0.2 mm (sagging: < 1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

7.5 Device Holder

< Mounting Device for Hand-Held Transmitter >

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

< Mounting Device for Laptops and other Body-Worn Transmitters >

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

- (a) Configure the device RF transmitters to be in continuous transmission mode., at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

8.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1012	Aug. 22, 2024	Aug. 20, 2026
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Jun. 11, 2025	Jun. 09, 2027
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1117	Mar. 12, 2025	Mar. 10, 2027
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	499	Aug. 22, 2024	Aug. 20, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d167	Apr. 23, 2026	Apr. 22, 2027
SPEAG	900MHz System Validation Kit ⁽²⁾	D900V2	190	Feb. 17, 2025	Feb. 15, 2027
SPEAG	900MHz System Validation Kit ⁽²⁾	D900V2	1d165	Jun. 11, 2025	Jun. 09, 2027
SPEAG	1750MHz System Validation Kit	D1750V2	1068	Nov. 12, 2025	Nov. 11, 2026
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Feb. 20, 2025	Feb. 18, 2027
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 11, 2025	Jun. 09, 2027
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 14, 2025	Jan. 12, 2027
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 12, 2025	Nov. 11, 2026
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	806	Mar. 13, 2025	Mar. 11, 2027
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 11, 2025	Jun. 09, 2027
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1089	Mar. 13, 2025	Mar. 11, 2027
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 15, 2025	Jan. 13, 2027
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 12, 2025	Jun. 10, 2027
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1017	Apr. 22, 2025	Apr. 20, 2027
SPEAG	3900MHz System Validation Kit	D3900V2	1092	May. 11, 2026	May. 10, 2027
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1128	Sep. 17, 2024	Sep. 15, 2026
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 19, 2024	Apr. 16, 2027
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 22, 2025	Oct. 21, 2026
SPEAG	13MHz System Validation Kit	CLA13	1011	Jul. 09, 2026	Jul. 08, 2027
SPEAG	5G Verification Source	10GHz	1020	Jan. 15, 2026	Jan. 14, 2027
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 15, 2025	Oct. 14, 2026
SPEAG	Data Acquisition Electronics	DAE3	577	Mar. 13, 2026	Mar. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	661	May. 13, 2026	May. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	1424	Dec. 03, 2025	Dec. 02, 2026
SPEAG	Data Acquisition Electronics	DAE4	1647	Oct. 20, 2025	Oct. 19, 2026
SPEAG	Data Acquisition Electronics	DAE4	1694	Oct. 15, 2025	Oct. 14, 2026
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 19, 2025	Nov. 18, 2026
SPEAG	Data Acquisition Electronics	DAE4	1707	Nov. 20, 2025	Nov. 19, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 23, 2025	Oct. 22, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7694	Oct. 23, 2025	Oct. 22, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 26, 2025	Nov. 25, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7793	Feb. 23, 2026	Feb. 22, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	Jun. 16, 2026	Jun. 15, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7970	Jan. 28, 2026	Jan. 27, 2027
Testo	Hygro meter	608-H1	45196600	Nov. 04, 2025	Nov. 03, 2026
Anritsu	Radio Communication Test Station	MT8000A	6262208374	Jun. 26, 2026	Jun. 25, 2027
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 20, 2025	Nov. 19, 2026
Keysight	5G Wireless Test Platform	E7515B	MY59321595	Jul. 20, 2026	Jul. 19, 2027
R&S	BT Base Station	CBT	101136	Oct. 29, 2025	Oct. 28, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 16, 2025	Sep. 15, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3902	Feb. 23, 2026	Feb. 22, 2027
Anritsu	Power Meter	ML2496A	2119003	Jul. 23, 2026	Jul. 22, 2027
Anritsu	Power Sensor	MA2411B	1911334	Jul. 23, 2026	Jul. 22, 2027
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 06, 2026	Jul. 05, 2027
Mini-Circuits	Power Amplifier	ZVE-3W-83+	1651	Dec. 24, 2025	Dec. 23, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005-3	N/A	Note 1	

General Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta (σ)" and "Delta (ϵ_r)" can be relaxed to $\pm 10\%$

< Tissue Dielectric Parameter Check Results >

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
13	22.3	0.757	54.942	0.75	55.00	0.93	-0.11	± 10	2026/8/25
750	22.5	0.920	42.802	0.89	41.90	3.37	2.15	± 10	2026/8/11
750	22.5	0.920	42.802	0.89	41.90	3.37	2.15	± 10	2026/8/11
750	22.5	0.866	43.535	0.89	41.90	-2.70	3.90	± 10	2026/8/13
750	22.4	0.860	45.338	0.89	41.90	-3.37	8.21	± 10	2026/8/13
750	22.4	0.893	42.725	0.89	41.90	0.34	1.97	± 10	2026/8/14
835	22.5	0.948	42.561	0.90	41.50	5.33	2.56	± 10	2026/8/11
835	22.5	0.948	42.561	0.90	41.50	5.33	2.56	± 10	2026/8/11
835	22.5	0.891	43.322	0.90	41.50	-1.00	4.39	± 10	2026/8/13
835	22.4	0.888	45.134	0.90	41.50	-1.33	8.76	± 10	2026/8/13
835	22.4	0.923	42.484	0.90	41.50	2.56	2.37	± 10	2026/8/14
900	22.5	0.971	42.416	0.97	41.50	0.10	2.21	± 10	2026/8/11
900	22.5	0.971	42.416	0.97	41.50	0.10	2.21	± 10	2026/8/11
900	22.5	0.919	43.281	0.97	41.50	-5.26	4.29	± 10	2026/8/13
900	22.4	0.909	44.995	0.97	41.50	-6.29	8.42	± 10	2026/8/13
1750	22.5	1.373	40.967	1.37	40.10	0.22	2.16	± 10	2026/8/12
1750	22.5	1.373	40.967	1.37	40.10	0.22	2.16	± 10	2026/8/12
1750	22.5	1.369	40.756	1.37	40.10	-0.07	1.64	± 10	2026/8/13
1750	22.4	1.341	41.717	1.37	40.10	-2.12	4.03	± 10	2026/8/14
1750	22.4	1.302	43.643	1.37	40.10	-4.96	8.84	± 10	2026/8/22
1900	22.5	1.451	40.681	1.40	40.00	3.64	1.70	± 10	2026/8/12
1900	22.5	1.451	40.681	1.40	40.00	3.64	1.70	± 10	2026/8/12
1900	22.5	1.447	40.471	1.40	40.00	3.36	1.18	± 10	2026/8/13
1900	22.4	1.434	41.594	1.40	40.00	2.43	3.99	± 10	2026/8/14
1900	22.4	1.386	43.432	1.40	40.00	-1.00	8.58	± 10	2026/8/22
1900	22.5	1.441	40.400	1.40	40.00	2.93	1.00	± 10	2026/8/22
2300	22.5	1.710	40.913	1.67	39.50	2.40	3.58	± 10	2026/8/12
2300	22.5	1.742	39.434	1.67	39.50	4.31	-0.17	± 10	2026/8/13
2300	22.5	1.742	39.434	1.67	39.50	4.31	-0.17	± 10	2026/8/13
2300	22.4	1.652	42.973	1.67	39.50	-1.08	8.79	± 10	2026/8/22
2300	22.5	1.732	39.875	1.67	39.50	3.71	0.95	± 10	2026/8/22
2450	22.5	1.853	39.222	1.80	39.20	2.94	0.06	± 10	2026/8/13
2450	22.7	1.850	39.800	1.80	39.20	2.78	1.53	± 10	2026/8/20
2450	22.5	1.846	39.726	1.80	39.20	2.56	1.34	± 10	2026/8/20
2450	22.4	1.764	42.770	1.80	39.20	-2.00	9.11	± 10	2026/8/22
2600	22.5	1.945	40.482	1.96	39.00	-0.77	3.80	± 10	2026/8/12
2600	22.5	1.975	38.971	1.96	39.00	0.77	-0.07	± 10	2026/8/13
2600	22.5	1.975	38.971	1.96	39.00	0.77	-0.07	± 10	2026/8/13



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2600	22.2	1.968	39.447	1.96	39.00	0.41	1.15	±10	2026/8/16
2600	22.5	1.972	39.475	1.96	39.00	0.61	1.22	±10	2026/8/17
2600	22.5	1.970	39.462	1.96	39.00	0.51	1.18	±10	2026/8/18
2600	22.5	1.968	39.450	1.96	39.00	0.41	1.15	±10	2026/8/19
2600	22.4	1.878	42.527	1.96	39.00	-4.18	9.04	±10	2026/8/22
2600	22.5	1.965	39.351	1.96	39.00	0.26	0.90	±10	2026/8/22
3500	22.5	2.741	38.773	2.91	37.90	-5.81	2.30	±10	2026/8/12
3500	22.5	2.753	37.864	2.91	37.90	-5.40	-0.09	±10	2026/8/14
3500	22.3	2.749	37.844	2.91	37.90	-5.53	-0.15	±10	2026/8/15
3500	22.5	2.743	37.814	2.91	37.90	-5.74	-0.23	±10	2026/8/20
3500	22.5	2.740	37.801	2.91	37.90	-5.84	-0.26	±10	2026/8/21
3500	22.5	2.738	37.789	2.91	37.90	-5.91	-0.29	±10	2026/8/22
3700	22.5	2.932	37.528	3.12	37.70	-6.03	-0.46	±10	2026/8/14
3700	22.3	2.928	37.508	3.12	37.70	-6.15	-0.51	±10	2026/8/15
3700	22.5	2.914	37.440	3.12	37.70	-6.60	-0.69	±10	2026/8/23
3700	22.5	2.911	37.428	3.12	37.70	-6.70	-0.72	±10	2026/8/24
3700	22.5	2.902	37.383	3.12	37.70	-6.99	-0.84	±10	2026/8/25
3700	22.5	2.909	37.415	3.12	37.70	-6.76	-0.76	±10	2026/8/26
3900	22.5	3.101	37.249	3.33	37.51	-6.88	-0.70	±10	2026/8/14
3900	22.5	3.097	37.229	3.33	37.51	-7.00	-0.75	±10	2026/8/15
3900	22.5	3.024	39.259	3.33	37.51	-9.19	4.66	±10	2026/8/27
3900	22.5	3.074	37.124	3.33	37.51	-7.69	-1.03	±10	2026/8/28
3900	22.5	3.071	37.111	3.33	37.51	-7.78	-1.06	±10	2026/8/29
3900	22.5	3.113	36.682	3.33	37.51	-6.52	-2.21	±10	2026/8/30
5250	22.5	4.572	34.782	4.71	35.95	-2.93	-3.25	±10	2026/8/20
5250	22.7	4.473	34.800	4.71	35.95	-5.03	-3.20	±10	2026/8/21
5600	22.5	4.951	34.062	5.07	35.50	-2.35	-4.05	±10	2026/8/20
5600	22.7	4.850	34.300	5.07	35.50	-4.34	-3.38	±10	2026/8/21
5800	22.5	5.200	33.766	5.27	35.30	-1.33	-4.35	±10	2026/8/20
5800	22.7	5.070	33.900	5.27	35.30	-3.80	-3.97	±10	2026/8/21
6500	22.5	6.410	33.100	6.07	34.50	5.60	-4.06	±10	2026/8/23



10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR-09	2026/8/25	13	250	CLA13-1011	EX3DV4 - SN3931	DAE4 Sn1694	0.130	0.535	0.52	-2.80	0.082	0.331	0.328	-0.91
SAR-10	2026/8/11	750	250	D750V3-1012	EX3DV4 - SN7793	DAE4 Sn1697	2.030	8.400	8.12	-3.33	1.340	5.410	5.36	-0.92
SAR-12	2026/8/11	750	250	D750V3-1012	EX3DV4 - SN7970	DAE4 Sn1647	2.160	8.400	8.64	2.86	1.440	5.410	5.76	6.47
SAR-08	2026/8/13	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.010	8.840	8.04	-9.05	1.350	5.810	5.4	-7.06
SAR-11	2026/8/13	750	250	D750V3-1117	EX3DV4 - SN7814	DAE4 Sn661	2.340	8.600	9.36	8.84	1.500	5.570	6	7.72
SAR-10	2026/8/14	750	250	D750V3-1012	EX3DV4 - SN7793	DAE4 Sn1697	2.160	8.400	8.64	2.86	1.440	5.410	5.76	6.47
SAR-10	2026/8/11	835	250	D835V2-499	EX3DV4 - SN7793	DAE4 Sn1697	2.550	9.440	10.2	8.05	1.640	6.050	6.56	8.43
SAR-12	2026/8/11	835	250	D835V2-499	EX3DV4 - SN7970	DAE4 Sn1647	2.440	9.440	9.76	3.39	1.580	6.050	6.32	4.46
SAR-08	2026/8/13	835	250	D835V2-499	EX3DV4 - SN7785	DAE4 Sn1694	2.470	9.440	9.88	4.66	1.610	6.050	6.44	6.45
SAR-11	2026/8/13	835	250	D835V2-4d167	EX3DV4 - SN7814	DAE4 Sn661	2.610	9.550	10.44	9.32	1.670	6.250	6.68	6.88
SAR-10	2026/8/14	835	250	D835V2-499	EX3DV4 - SN7793	DAE4 Sn1697	2.510	9.440	10.04	6.36	1.660	6.050	6.64	9.75
SAR-10	2026/8/11	900	250	D900V2-1d165	EX3DV4 - SN7793	DAE4 Sn1697	3.010	11.000	12.04	9.45	1.960	7.130	7.84	9.96
SAR-12	2026/8/11	900	250	D900V2-1d165	EX3DV4 - SN7970	DAE4 Sn1647	2.530	11.000	10.12	-8.00	1.640	7.130	6.56	-7.99
SAR-08	2026/8/13	900	250	D900V2-190	EX3DV4 - SN7785	DAE4 Sn1694	2.940	10.900	11.76	7.89	1.890	6.970	7.56	8.46
SAR-11	2026/8/13	900	250	D900V2-1d165	EX3DV4 - SN7814	DAE4 Sn661	2.540	11.000	10.16	-7.64	1.650	7.130	6.6	-7.43
SAR-10	2026/8/12	1750	50	D1750V2-1112	EX3DV4 - SN7793	DAE4 Sn1697	1.800	36.300	36	-0.83	0.952	19.300	19.04	-1.35
SAR-12	2026/8/12	1750	50	D1750V2-1112	EX3DV4 - SN7970	DAE4 Sn1647	1.720	36.300	34.4	-5.23	0.910	19.300	18.2	-5.70
SAR-10	2026/8/13	1750	50	D1750V2-1068	EX3DV4 - SN7793	DAE4 Sn1697	1.780	36.500	35.6	-2.47	0.952	19.400	19.04	-1.86
SAR-08	2026/8/14	1750	50	D1750V2-1112	EX3DV4 - SN7785	DAE4 Sn1694	1.690	36.300	33.8	-6.89	0.902	19.300	18.04	-6.53
SAR-11	2026/8/22	1750	50	D1750V2-1112	EX3DV4 - SN7814	DAE4 Sn661	1.690	36.300	33.8	-6.89	0.896	19.300	17.92	-7.15
SAR-10	2026/8/12	1900	50	D1900V2-5d185	EX3DV4 - SN7793	DAE4 Sn1697	1.980	39.600	39.6	0.00	1.020	20.800	20.4	-1.92
SAR-12	2026/8/12	1900	50	D1900V2-5d185	EX3DV4 - SN7970	DAE4 Sn1647	1.830	39.600	36.6	-7.58	0.944	20.800	18.88	-9.23
SAR-10	2026/8/13	1900	50	D1900V2-5d185	EX3DV4 - SN7793	DAE4 Sn1697	1.940	39.600	38.8	-2.02	1.010	20.800	20.2	-2.88
SAR-08	2026/8/14	1900	50	D1900V2-5d185	EX3DV4 - SN7785	DAE4 Sn1694	1.890	39.600	37.8	-4.55	0.990	20.800	19.8	-4.81
SAR-11	2026/8/22	1900	50	D1900V2-5d185	EX3DV4 - SN7814	DAE4 Sn661	1.790	39.600	35.8	-9.60	0.938	20.800	18.76	-9.81
SAR-10	2026/8/22	1900	50	D1900V2-5d185	EX3DV4 - SN7793	DAE4 Sn1697	2.020	39.600	40.4	2.02	1.050	20.800	21	0.96
SAR-08	2026/8/12	2300	50	D2300V2-1006	EX3DV4 - SN7785	DAE4 Sn1694	2.300	48.200	46	-4.56	1.110	23.200	22.2	-4.31
SAR-10	2026/8/13	2300	50	D2300V2-1006	EX3DV4 - SN7793	DAE4 Sn1697	2.450	48.200	49	1.66	1.160	23.200	23.2	0.00
SAR-12	2026/8/13	2300	50	D2300V2-1006	EX3DV4 - SN7970	DAE4 Sn1647	2.490	48.200	49.8	3.32	1.180	23.200	23.6	1.72
SAR-11	2026/8/22	2300	50	D2300V2-1006	EX3DV4 - SN7814	DAE4 Sn661	2.230	48.200	44.6	-7.47	1.060	23.200	21.2	-8.62
SAR-10	2026/8/22	2300	250	D2300V2-1006	EX3DV4 - SN7793	DAE4 Sn1697	12.000	48.200	48	-0.41	5.730	23.200	22.92	-1.21
SAR-12	2026/8/13	2450	50	D2450V2-929	EX3DV4 - SN7970	DAE4 Sn1647	2.790	53.300	55.8	4.69	1.310	25.200	26.2	3.97
SAR-09	2026/8/20	2450	50	D2450V2-929	EX3DV4 - SN3931	DAE4 Sn1707	2.400	53.300	48	-9.94	1.170	25.200	23.4	-7.14
SAR-08	2026/8/20	2450	50	D2450V2-929	EX3DV4 - SN7785	DAE4 Sn1694	2.700	53.300	54	1.31	1.290	25.200	25.8	2.38
SAR-11	2026/8/22	2450	50	D2450V2-806	EX3DV4 - SN7814	DAE4 Sn661	2.410	52.900	48.2	-8.88	1.130	24.700	22.6	-8.50
SAR-08	2026/8/12	2600	50	D2600V2-1078	EX3DV4 - SN7785	DAE4 Sn1694	2.520	55.300	50.4	-8.86	1.190	24.900	23.8	-4.42
SAR-10	2026/8/13	2600	50	D2600V2-1078	EX3DV4 - SN7793	DAE4 Sn1697	2.830	55.300	56.6	2.35	1.340	24.900	26.8	7.63
SAR-12	2026/8/13	2600	50	D2600V2-1078	EX3DV4 - SN7970	DAE4 Sn1647	2.680	55.300	53.6	-3.07	1.190	24.900	23.8	-4.42
SAR-12	2026/8/16	2600	50	D2600V2-1078	EX3DV4 - SN7970	DAE4 Sn1647	2.660	55.300	53.2	-3.80	1.180	24.900	23.6	-5.22
SAR-11	2026/8/17	2600	50	D2600V2-1078	EX3DV4 - SN7814	DAE3 Sn577	2.590	55.300	51.8	-6.33	1.150	24.900	23	-7.63
SAR-11	2026/8/18	2600	50	D2600V2-1078	EX3DV4 - SN7814	DAE3 Sn577	2.610	55.300	52.2	-5.61	1.130	24.900	22.6	-9.24
SAR-11	2026/8/19	2600	50	D2600V2-1078	EX3DV4 - SN7814	DAE3 Sn577	2.580	55.300	51.6	-6.69	1.150	24.900	23	-7.63
SAR-11	2026/8/22	2600	50	D2600V2-1089	EX3DV4 - SN7814	DAE4 Sn661	2.640	56.500	52.8	-6.55	1.200	25.600	24	-6.25
SAR-10	2026/8/22	2600	50	D2600V2-1078	EX3DV4 - SN7793	DAE4 Sn1697	2.920	55.300	58.4	5.61	1.280	24.900	25.6	2.81
SAR-08	2026/8/12	3500	50	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1694	3.150	65.700	63	-4.11	1.200	24.900	24	-3.61
SAR-12	2026/8/14	3500	50	D3500V2-1014	EX3DV4 - SN7970	DAE4 Sn1647	3.150	65.700	63	-4.11	1.180	24.900	23.6	-5.22
SAR-12	2026/8/15	3500	50	D3500V2-1014	EX3DV4 - SN7970	DAE4 Sn1647	3.140	65.700	62.8	-4.41	1.180	24.900	23.6	-5.22
SAR-11	2026/8/20	3500	50	D3500V2-1014	EX3DV4 - SN7814	DAE3 Sn577	3.070	65.700	61.4	-6.54	1.150	24.900	23	-7.63
SAR-11	2026/8/21	3500	50	D3500V2-1014	EX3DV4 - SN7814	DAE3 Sn577	3.080	65.700	61.6	-6.24	1.180	24.900	23.6	-5.22

SAR-11	2026/8/22	3500	50	D3500V2-1014	EX3DV4 - SN7814	DAE3 Sn577	3.090	65.700	61.8	-5.94	1.160	24.900	23.2	-6.83
SAR-12	2026/8/14	3700	50	D3700V2-1006	EX3DV4 - SN7970	DAE4 Sn1647	3.490	69.900	69.8	-0.14	1.180	25.600	23.6	-7.81
SAR-12	2026/8/15	3700	50	D3700V2-1006	EX3DV4 - SN7970	DAE4 Sn1647	3.480	69.900	69.6	-0.43	1.180	25.600	23.6	-7.81
SAR-11	2026/8/23	3700	50	D3700V2-1006	EX3DV4 - SN7814	DAE3 Sn577	3.310	69.900	66.2	-5.29	1.200	25.600	24	-6.25
SAR-11	2026/8/24	3700	50	D3700V2-1006	EX3DV4 - SN7814	DAE3 Sn577	3.290	69.900	65.8	-5.87	1.190	25.600	23.8	-7.03
SAR-11	2026/8/25	3700	50	D3700V2-1006	EX3DV4 - SN7814	DAE3 Sn577	3.290	69.900	65.8	-5.87	1.190	25.600	23.8	-7.03
SAR-11	2026/8/26	3700	50	D3700V2-1006	EX3DV4 - SN7814	DAE3 Sn577	3.280	69.900	65.6	-6.15	1.200	25.600	24	-6.25
SAR-12	2026/8/14	3900	50	D3900V2-1017	EX3DV4 - SN7970	DAE4 Sn1647	3.630	70.200	72.6	3.42	1.230	24.600	24.6	0.00
SAR-12	2026/8/15	3900	50	D3900V2-1017	EX3DV4 - SN7970	DAE4 Sn1647	3.620	70.200	72.4	3.13	1.230	24.600	24.6	0.00
SAR-11	2026/8/27	3900	50	D3900V2-1092	EX3DV4 - SN7814	DAE3 Sn577	2.990	65.700	59.8	-8.98	1.050	23.100	21	-9.09
SAR-11	2026/8/28	3900	50	D3900V2-1092	EX3DV4 - SN7814	DAE3 Sn577	2.980	65.700	59.6	-9.28	1.070	23.100	21.4	-7.36
SAR-11	2026/8/29	3900	50	D3900V2-1092	EX3DV4 - SN7814	DAE3 Sn577	2.990	65.700	59.8	-8.98	1.060	23.100	21.2	-8.23
SAR-11	2026/8/30	3900	50	D3900V2-1092	EX3DV4 - SN7814	DAE3 Sn577	3.010	65.700	60.2	-8.37	1.050	23.100	21	-9.09
SAR-08	2026/8/20	5250	50	D5GHzV2-1171	EX3DV4 - SN7785	DAE4 Sn1694	3.670	78.700	73.4	-6.73	1.050	22.700	21	-7.49
SAR-09	2026/8/21	5250	50	D5GHzV2-1128	EX3DV4 - SN3931	DAE4 Sn1707	3.980	77.500	79.6	2.71	1.190	22.200	23.8	7.21
SAR-08	2026/8/20	5600	50	D5GHzV2-1171	EX3DV4 - SN7785	DAE4 Sn1694	3.770	81.400	75.4	-7.37	1.070	23.400	21.4	-8.55
SAR-09	2026/8/21	5600	50	D5GHzV2-1128	EX3DV4 - SN3931	DAE4 Sn1707	3.940	81.700	78.8	-3.55	1.200	23.500	24	2.13
SAR-08	2026/8/20	5800	50	D5GHzV2-1171	EX3DV4 - SN7785	DAE4 Sn1694	3.720	78.900	74.4	-5.70	1.060	22.400	21.2	-5.36
SAR-09	2026/8/21	5800	50	D5GHzV2-1128	EX3DV4 - SN3931	DAE4 Sn1707	4.220	78.600	84.4	7.38	1.230	22.500	24.6	9.33
SAR-19	2026/8/23	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7694	DAE4 Sn1424	27.900	302.000	279	-7.62	5.140	56.500	51.4	-9.03

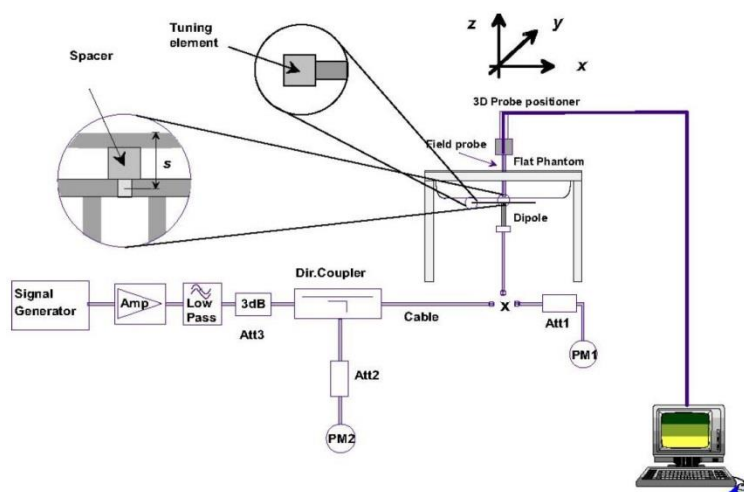


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR14	10G	10GHz_1020	EUmmWV4 - 9461	Sn 577	10	56	54.6	0.11	2026/9/16

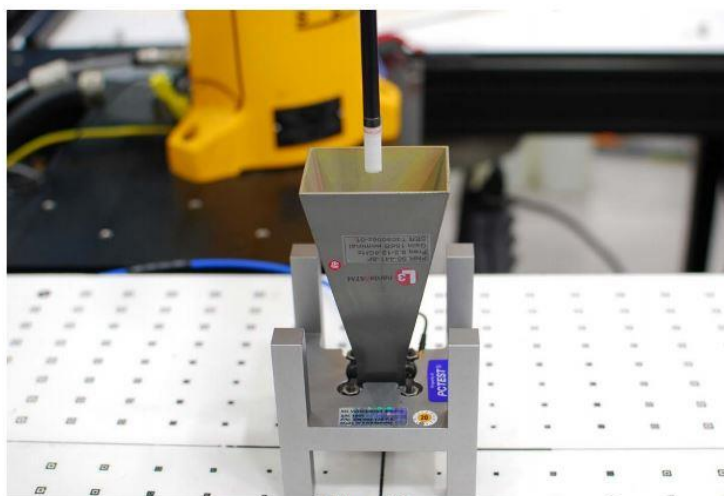


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2. The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

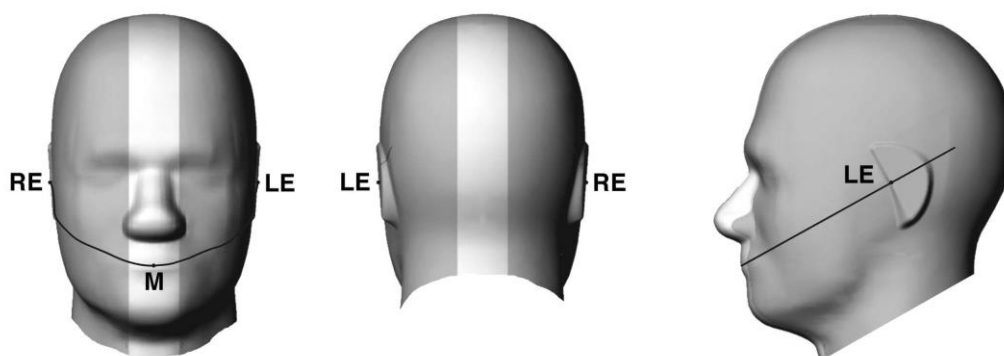


Fig 9.1.1 Front, back, and side views of SAM twin phantom

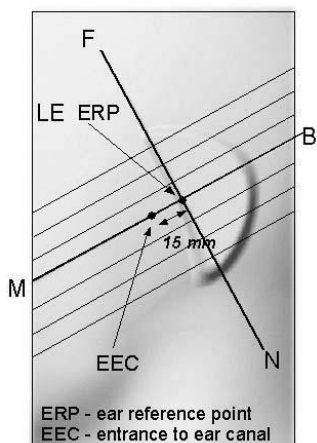


Fig 9.1.2 Close-up side view of phantom showing the ear region.

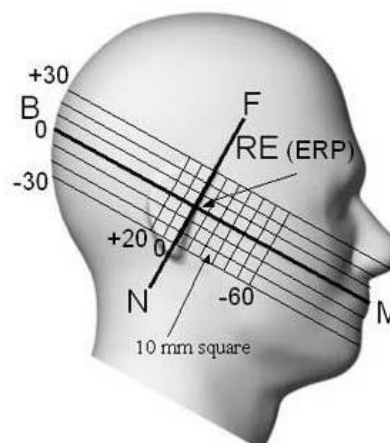


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

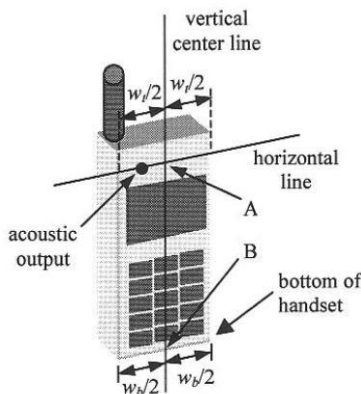


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

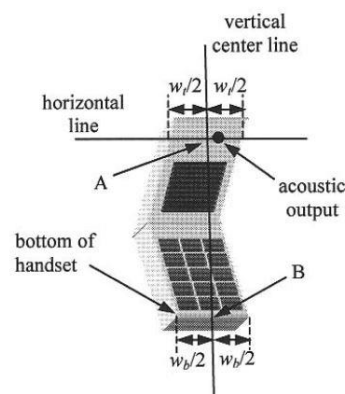


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

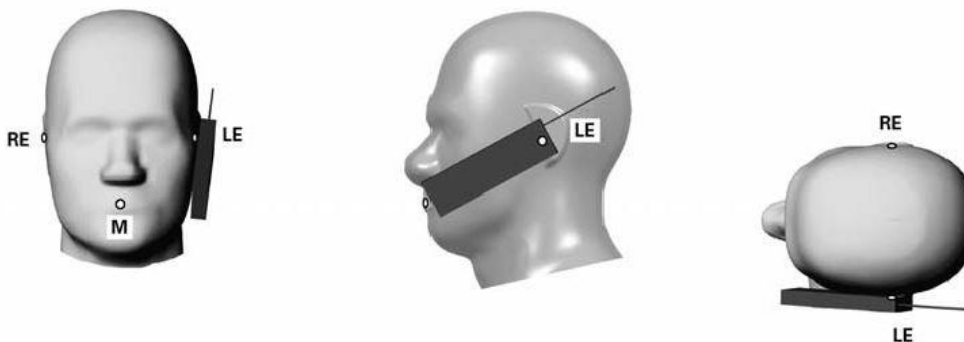


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the handset in contact with the pinna and a second point, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

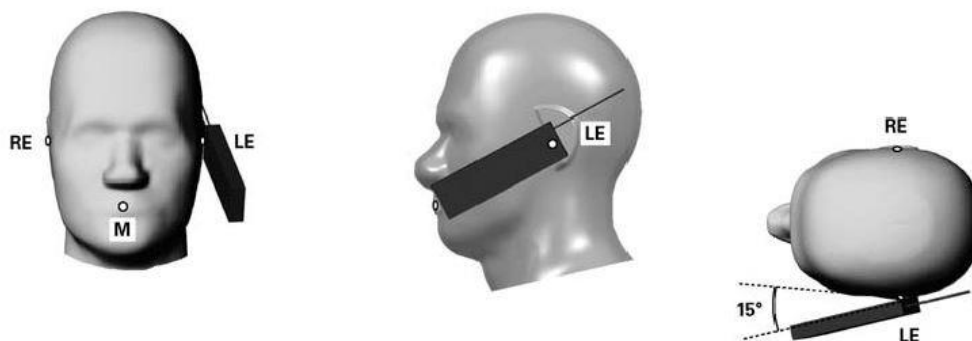


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

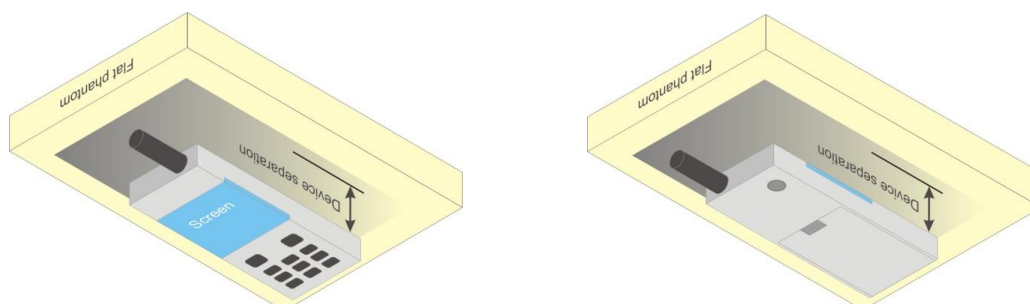


Fig 9.4 Body Worn Position



11.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.⁶ The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9$ cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

**12. RF Output Power (Unit: dBm)****【GSM850_Ant 8_DSI 0】**

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GPRS 3 Tx slots	30.85	30.27	30.40	31.00	26.59	26.01	26.14	26.74

【GSM850_Ant 8_DSI 2】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GPRS 3 Tx slots	28.84	28.13	28.80	29.00	24.58	23.87	24.54	24.74

【GSM850_Ant 8_DSI 3】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GPRS 3 Tx slots	29.70	29.55	29.66	30.00	25.44	25.29	25.40	25.74

【GSM850_Ant 8_DSI 1】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GPRS 3 Tx slots	29.70	29.55	29.66	30.00	25.44	25.29	25.40	25.74

【GSM850_Ant 8_DSI 4】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GPRS 3 Tx slots	30.85	30.27	30.40	31.00	26.59	26.01	26.14	26.74

【GSM1900_Ant 1_DSI 0】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GPRS 3 Tx slots	28.40	28.64	28.45	29.00	24.14	24.38	24.19	24.74

【GSM1900_Ant 1_DSI 2】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GPRS 3 Tx slots	28.40	28.64	28.45	29.00	24.14	24.38	24.19	24.74

【GSM1900_Ant 1_DSI 3】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GPRS 3 Tx slots	26.96	26.75	26.58	27.30	22.70	22.49	22.32	23.04

【GSM1900_Ant 1_DSI 1】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GPRS 3 Tx slots	26.96	26.75	26.58	27.70	22.70	22.49	22.32	23.44

【GSM1900_Ant 1_DSI 4】

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GPRS 3 Tx slots	26.96	26.75	26.58	27.70	22.70	22.49	22.32	23.44

**【WCDMA II_Ant 1_DSI 0】**

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	24.98	24.95	24.90	25.00

【WCDMA II_Ant 1_DSI 2】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	24.98	24.95	24.90	25.00

【WCDMA II_Ant 1_DSI 3】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	21.42	21.35	21.15	22.40

【WCDMA II_Ant 1_DSI 1】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	22.55	22.45	22.28	23.40

【WCDMA II_Ant 1_DSI 4】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	22.55	22.45	22.28	23.40

【WCDMA IV_Ant 1_DSI 0】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	24.53	24.50	24.68	25.00

【WCDMA IV_Ant 1_DSI 2】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	24.53	24.50	24.68	25.00

【WCDMA IV_Ant 1_DSI 3】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	24.53	24.50	24.68	25.00

【WCDMA IV_Ant 1_DSI 1】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	24.53	24.50	24.68	25.00

【WCDMA IV_Ant 1_DSI 4】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	24.53	24.50	24.68	25.00

【WCDMA V_Ant 8_DSI 0】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.63	23.60	23.56	25.00

【WCDMA V_Ant 8_DSI 2】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.63	23.60	23.56	25.00

**【WCDMA V_Ant 8_DSI 3】**

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.63	23.60	23.56	25.00

【WCDMA V_Ant 8_DSI 1】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.63	23.60	23.56	25.00

【WCDMA V_Ant 8_DSI 4】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.63	23.60	23.56	25.00

【LTE Band 2_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.42	24.40	24.23	25.00
20	QPSK	50	0	23.44	23.45	23.35	24.00

【LTE Band 2_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	0.00	0.00	0.00	25.00
20	QPSK	50	0	0.00	0.00	0.00	24.00

【LTE Band 4_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	0.00	0.00	0.00	25.00
20	QPSK	50	0	0.00	0.00	0.00	24.00

【LTE Band 4_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.85	23.94	23.91	25.00
20	QPSK	50	0	22.85	22.93	22.88	24.00

【LTE Band 5_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.20	23.27	23.36	25.00
10	QPSK	25	0	22.33	22.43	22.36	24.00

【LTE Band 5_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.20	23.27	23.36	25.00
10	QPSK	25	0	22.33	22.43	22.36	24.00

【LTE Band 5_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.20	23.27	23.36	25.00
10	QPSK	25	0	22.33	22.43	22.36	24.00

【LTE Band 5_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.20	23.27	23.36	24.00
10	QPSK	25	0	22.33	22.43	22.36	23.00

【LTE Band 5_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.20	23.27	23.36	24.00
10	QPSK	25	0	22.33	22.43	22.36	23.00

【LTE Band 5_Ant 10_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	0.00	0.00	0.00	25.00
10	QPSK	25	0	0.00	0.00	0.00	24.00

**【LTE Band 7_Ant 8_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.55	23.66	23.45	25.00
20	QPSK	50	0	22.71	22.79	22.63	24.00

【LTE Band 7_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.25	22.68	22.63	24.20
20	QPSK	1	49	22.42	22.57	22.62	24.20
20	QPSK	1	99	22.36	22.51	22.52	24.20
20	QPSK	50	0	21.50	21.60	21.58	23.20
20	QPSK	50	24	21.46	21.58	21.57	23.20
20	QPSK	50	50	21.43	21.55	21.50	23.20
20	QPSK	100	0	21.45	21.62	21.60	23.20
20	16QAM	1	0	21.65	21.73	21.92	23.20
20	16QAM	1	49	21.68	22.19	22.04	23.20
20	16QAM	1	99	21.56	21.72	21.85	23.20
20	16QAM	50	0	20.36	20.67	20.58	22.20
20	16QAM	50	24	20.47	20.58	20.57	22.20
20	16QAM	50	50	20.48	20.56	20.59	22.20
20	16QAM	100	0	20.51	20.60	20.61	22.20
20	64QAM	1	0	20.53	20.77	20.83	22.20
20	64QAM	1	49	20.54	20.77	20.81	22.20
20	64QAM	1	99	20.56	20.74	20.64	22.20
20	64QAM	50	0	19.36	19.55	19.68	21.20
20	64QAM	50	24	19.51	19.62	19.64	21.20
20	64QAM	50	50	19.50	19.61	19.68	21.20
20	64QAM	100	0	19.51	19.57	19.64	21.20
20	256QAM	1	0	17.55	17.67	17.72	19.20
20	256QAM	1	49	17.58	17.72	17.71	19.20
20	256QAM	1	99	17.55	17.69	17.71	19.20
20	256QAM	50	0	17.42	17.61	17.64	19.20
20	256QAM	50	24	17.48	17.63	17.67	19.20
20	256QAM	50	50	17.59	17.70	17.69	19.20
20	256QAM	100	0	17.48	17.62	17.62	19.20
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.21	22.65	22.57	24.20
15	QPSK	1	37	22.25	22.52	22.57	24.20
15	QPSK	1	74	22.24	22.42	22.49	24.20
15	QPSK	36	0	21.29	21.42	21.48	23.20
15	QPSK	36	20	21.39	21.58	21.52	23.20
15	QPSK	36	39	21.41	21.48	21.66	23.20
15	QPSK	75	0	21.41	21.51	21.52	23.20
15	16QAM	1	0	21.63	21.68	21.87	23.20
15	16QAM	1	37	21.63	22.05	22.02	23.20
15	16QAM	1	74	21.55	21.58	21.79	23.20
15	16QAM	36	0	20.29	20.60	20.54	22.20
15	16QAM	36	20	20.33	20.47	20.47	22.20
15	16QAM	36	39	20.35	20.44	20.57	22.20
15	16QAM	75	0	20.41	20.50	20.50	22.20
15	64QAM	1	0	20.44	20.64	20.81	22.20
15	64QAM	1	37	20.48	20.66	20.73	22.20
15	64QAM	1	74	20.43	20.62	20.62	22.20
15	64QAM	36	0	19.26	19.44	19.63	21.20
15	64QAM	36	20	19.45	19.54	19.58	21.20
15	64QAM	36	39	19.38	19.47	19.67	21.20
15	64QAM	75	0	19.44	19.56	19.60	21.20
15	256QAM	1	0	17.54	17.57	17.64	19.20
15	256QAM	1	37	17.50	17.61	17.69	19.20
15	256QAM	1	74	17.42	17.62	17.67	19.20
15	256QAM	36	0	17.31	17.57	17.57	19.20
15	256QAM	36	20	17.42	17.55	17.52	19.20
15	256QAM	36	39	17.56	17.62	17.58	19.20
15	256QAM	75	0	17.37	17.47	17.56	19.20



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Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.21	22.60	22.57	24.20
10	QPSK	1	25	22.25	22.44	22.52	24.20
10	QPSK	1	49	22.21	22.38	22.44	24.20
10	QPSK	25	0	21.25	21.42	21.50	23.20
10	QPSK	25	12	21.33	21.61	21.48	23.20
10	QPSK	25	25	21.35	21.55	21.68	23.20
10	QPSK	50	0	21.41	21.51	21.58	23.20
10	16QAM	1	0	21.56	21.71	21.78	23.20
10	16QAM	1	25	21.64	22.18	21.91	23.20
10	16QAM	1	49	21.49	21.70	21.80	23.20
10	16QAM	25	0	20.29	20.58	20.48	22.20
10	16QAM	25	12	20.40	20.44	20.46	22.20
10	16QAM	25	25	20.44	20.44	20.50	22.20
10	16QAM	50	0	20.40	20.49	20.54	22.20
10	64QAM	1	0	20.39	20.66	20.78	22.20
10	64QAM	1	25	20.41	20.75	20.70	22.20
10	64QAM	1	49	20.44	20.59	20.57	22.20
10	64QAM	25	0	19.32	19.41	19.62	21.20
10	64QAM	25	12	19.44	19.59	19.56	21.20
10	64QAM	25	25	19.43	19.48	19.55	21.20
10	64QAM	50	0	19.37	19.43	19.55	21.20
10	256QAM	1	0	17.50	17.53	17.62	19.20
10	256QAM	1	25	17.54	17.68	17.57	19.20
10	256QAM	1	49	17.49	17.59	17.60	19.20
10	256QAM	25	0	17.39	17.49	17.50	19.20
10	256QAM	25	12	17.34	17.58	17.54	19.20
10	256QAM	25	25	17.48	17.58	17.63	19.20
10	256QAM	50	0	17.39	17.58	17.60	19.20
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.20	22.56	22.60	24.20
5	QPSK	1	12	22.25	22.53	22.57	24.20
5	QPSK	1	24	22.22	22.44	22.43	24.20
5	QPSK	12	0	21.26	21.49	21.47	23.20
5	QPSK	12	7	21.33	21.69	21.49	23.20
5	QPSK	12	13	21.35	21.56	21.66	23.20
5	QPSK	25	0	21.31	21.47	21.50	23.20
5	16QAM	1	0	21.59	21.61	21.90	23.20
5	16QAM	1	12	21.58	22.05	21.96	23.20
5	16QAM	1	24	21.47	21.59	21.84	23.20
5	16QAM	12	0	20.34	20.56	20.49	22.20
5	16QAM	12	7	20.37	20.47	20.53	22.20
5	16QAM	12	13	20.40	20.53	20.45	22.20
5	16QAM	25	0	20.38	20.45	20.58	22.20
5	64QAM	1	0	20.48	20.66	20.75	22.20
5	64QAM	1	12	20.48	20.71	20.73	22.20
5	64QAM	1	24	20.45	20.60	20.55	22.20
5	64QAM	12	0	19.35	19.45	19.54	21.20
5	64QAM	12	7	19.40	19.53	19.52	21.20
5	64QAM	12	13	19.41	19.55	19.61	21.20
5	64QAM	25	0	19.48	19.50	19.55	21.20
5	256QAM	1	0	17.47	17.66	17.60	19.20
5	256QAM	1	12	17.50	17.63	17.56	19.20
5	256QAM	1	24	17.42	17.59	17.62	19.20
5	256QAM	12	0	17.40	17.49	17.63	19.20
5	256QAM	12	7	17.44	17.56	17.64	19.20
5	256QAM	12	13	17.49	17.61	17.64	19.20
5	256QAM	25	0	17.37	17.53	17.51	19.20

【LTE Band 7_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.25	22.68	22.63	23.40
20	QPSK	1	49	22.42	22.57	22.62	23.40
20	QPSK	1	99	22.36	22.51	22.52	23.40
20	QPSK	50	0	21.50	21.60	21.58	22.40
20	QPSK	50	24	21.46	21.58	21.57	22.40
20	QPSK	50	50	21.43	21.55	21.50	22.40
20	QPSK	100	0	21.45	21.62	21.60	22.40



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20	16QAM	1	0	21.65	21.73	21.92	22.40
20	16QAM	1	49	21.68	22.19	22.04	22.40
20	16QAM	1	99	21.56	21.72	21.85	22.40
20	16QAM	50	0	20.36	20.67	20.58	21.40
20	16QAM	50	24	20.47	20.58	20.57	21.40
20	16QAM	50	50	20.48	20.56	20.59	21.40
20	16QAM	100	0	20.51	20.60	20.61	21.40
20	64QAM	1	0	20.53	20.77	20.83	21.40
20	64QAM	1	49	20.54	20.77	20.81	21.40
20	64QAM	1	99	20.56	20.74	20.64	21.40
20	64QAM	50	0	19.36	19.55	19.68	20.40
20	64QAM	50	24	19.51	19.62	19.64	20.40
20	64QAM	50	50	19.50	19.61	19.68	20.40
20	64QAM	100	0	19.51	19.57	19.64	20.40
20	256QAM	1	0	17.55	17.67	17.72	18.40
20	256QAM	1	49	17.58	17.72	17.71	18.40
20	256QAM	1	99	17.55	17.69	17.71	18.40
20	256QAM	50	0	17.42	17.61	17.64	18.40
20	256QAM	50	24	17.48	17.63	17.67	18.40
20	256QAM	50	50	17.59	17.70	17.69	18.40
20	256QAM	100	0	17.48	17.62	17.62	18.40
Channel				20825	21100	21375	Tune-up limit
Frequency (MHz)				2507.5	2535	2562.5	(dBm)
15	QPSK	1	0	22.21	22.65	22.57	23.40
15	QPSK	1	37	22.25	22.52	22.57	23.40
15	QPSK	1	74	22.24	22.42	22.49	23.40
15	QPSK	36	0	21.29	21.42	21.48	22.40
15	QPSK	36	20	21.39	21.58	21.52	22.40
15	QPSK	36	39	21.41	21.48	21.66	22.40
15	QPSK	75	0	21.41	21.51	21.52	22.40
15	16QAM	1	0	21.63	21.68	21.87	22.40
15	16QAM	1	37	21.63	22.05	22.02	22.40
15	16QAM	1	74	21.55	21.58	21.79	22.40
15	16QAM	36	0	20.29	20.60	20.54	21.40
15	16QAM	36	20	20.33	20.47	20.47	21.40
15	16QAM	36	39	20.35	20.44	20.57	21.40
15	16QAM	75	0	20.41	20.50	20.50	21.40
15	64QAM	1	0	20.44	20.64	20.81	21.40
15	64QAM	1	37	20.48	20.66	20.73	21.40
15	64QAM	1	74	20.43	20.62	20.62	21.40
15	64QAM	36	0	19.26	19.44	19.63	20.40
15	64QAM	36	20	19.45	19.54	19.58	20.40
15	64QAM	36	39	19.38	19.47	19.67	20.40
15	64QAM	75	0	19.44	19.56	19.60	20.40
15	256QAM	1	0	17.54	17.57	17.64	18.40
15	256QAM	1	37	17.50	17.61	17.69	18.40
15	256QAM	1	74	17.42	17.62	17.67	18.40
15	256QAM	36	0	17.31	17.57	17.57	18.40
15	256QAM	36	20	17.42	17.55	17.52	18.40
15	256QAM	36	39	17.56	17.62	17.58	18.40
15	256QAM	75	0	17.37	17.47	17.56	18.40
Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	22.21	22.60	22.57	23.40
10	QPSK	1	25	22.25	22.44	22.52	23.40
10	QPSK	1	49	22.21	22.38	22.44	23.40
10	QPSK	25	0	21.25	21.42	21.50	22.40
10	QPSK	25	12	21.33	21.61	21.48	22.40
10	QPSK	25	25	21.35	21.55	21.68	22.40
10	QPSK	50	0	21.41	21.51	21.58	22.40
10	16QAM	1	0	21.56	21.71	21.78	22.40
10	16QAM	1	25	21.64	22.18	21.91	22.40
10	16QAM	1	49	21.49	21.70	21.80	22.40
10	16QAM	25	0	20.29	20.58	20.48	21.40
10	16QAM	25	12	20.40	20.44	20.46	21.40
10	16QAM	25	25	20.44	20.44	20.50	21.40
10	16QAM	50	0	20.40	20.49	20.54	21.40
10	64QAM	1	0	20.39	20.66	20.78	21.40
10	64QAM	1	25	20.41	20.75	20.70	21.40
10	64QAM	1	49	20.44	20.59	20.57	21.40
10	64QAM	25	0	19.32	19.41	19.62	20.40
10	64QAM	25	12	19.44	19.59	19.56	20.40
10	64QAM	25	25	19.43	19.48	19.55	20.40
10	64QAM	50	0	19.37	19.43	19.55	20.40
10	256QAM	1	0	17.50	17.53	17.62	18.40
10	256QAM	1	25	17.54	17.68	17.57	18.40
10	256QAM	1	49	17.49	17.59	17.60	18.40
10	256QAM	25	0	17.39	17.49	17.50	18.40



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10	256QAM	25	12	17.34	17.58	17.54	18.40
10	256QAM	25	25	17.48	17.58	17.63	18.40
10	256QAM	50	0	17.39	17.58	17.60	18.40
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.20	22.56	22.60	23.40
5	QPSK	1	12	22.25	22.53	22.57	23.40
5	QPSK	1	24	22.22	22.44	22.43	23.40
5	QPSK	12	0	21.26	21.49	21.47	22.40
5	QPSK	12	7	21.33	21.69	21.49	22.40
5	QPSK	12	13	21.35	21.56	21.66	22.40
5	QPSK	25	0	21.31	21.47	21.50	22.40
5	16QAM	1	0	21.59	21.61	21.90	22.40
5	16QAM	1	12	21.58	22.05	21.96	22.40
5	16QAM	1	24	21.47	21.59	21.84	22.40
5	16QAM	12	0	20.34	20.56	20.49	21.40
5	16QAM	12	7	20.37	20.47	20.53	21.40
5	16QAM	12	13	20.40	20.53	20.45	21.40
5	16QAM	25	0	20.38	20.45	20.58	21.40
5	64QAM	1	0	20.48	20.66	20.75	21.40
5	64QAM	1	12	20.48	20.71	20.73	21.40
5	64QAM	1	24	20.45	20.60	20.55	21.40
5	64QAM	12	0	19.35	19.45	19.54	20.40
5	64QAM	12	7	19.40	19.53	19.52	20.40
5	64QAM	12	13	19.41	19.55	19.61	20.40
5	64QAM	25	0	19.48	19.50	19.55	20.40
5	256QAM	1	0	17.47	17.66	17.60	18.40
5	256QAM	1	12	17.50	17.63	17.56	18.40
5	256QAM	1	24	17.42	17.59	17.62	18.40
5	256QAM	12	0	17.40	17.49	17.63	18.40
5	256QAM	12	7	17.44	17.56	17.64	18.40
5	256QAM	12	13	17.49	17.61	17.64	18.40
5	256QAM	25	0	17.37	17.53	17.51	18.40

【LTE Band 7_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.55	23.66	23.45	24.00

【LTE Band 7_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.55	23.66	23.45	24.00

【LTE Band 7_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.78	24.58	24.73	25.00

**【LTE Band 7_Ant 5_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.78	24.58	24.73	25.00

【LTE Band 7_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.78	24.58	24.73	25.00

【LTE Band 7_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.78	24.58	24.73	25.00

【LTE Band 7_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.78	24.58	24.73	25.00

【LTE Band 12_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.59	23.61	23.75	25.00

【LTE Band 12_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.59	23.61	23.75	25.00

**【LTE Band 12_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.59	23.61	23.75	25.00

【LTE Band 12_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.59	23.61	23.75	25.00

【LTE Band 12_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.59	23.61	23.75	24.00

【LTE Band 13_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.86		25.00

【LTE Band 13_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.86		25.00

【LTE Band 13_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.86		25.00

**【LTE Band 13_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.86		25.00

【LTE Band 13_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.86		24.00

【LTE Band 14_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.69		25.00

【LTE Band 14_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.69		25.00

【LTE Band 14_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.69		25.00

【LTE Band 14_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.69		25.00

**【LTE Band 14_Ant 8_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		23.69		24.00

【LTE Band 17_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23780	23800	
Frequency (MHz)					709	711	
10	QPSK	1	0	23.45	23.45	23.53	25.00
10	QPSK	25	0	22.68	22.62	22.57	24.00

【LTE Band 17_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23780	23800	
Frequency (MHz)					709	711	
10	QPSK	1	0	23.45	23.45	23.53	25.00

【LTE Band 25_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					26140	26590	
Frequency (MHz)					1860	1905	
20	QPSK	1	0	24.36	24.40	24.27	25.00

【LTE Band 25_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					26140	26590	
Frequency (MHz)					1860	1905	
20	QPSK	1	0	24.36	24.40	24.27	25.00

【LTE Band 25_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					26140	26590	
Frequency (MHz)					1860	1905	
20	QPSK	1	0	21.67	21.64	21.51	22.70

**【LTE Band 25_Ant 1_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.67	21.64	21.51	22.70

【LTE Band 25_Ant 1_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.67	21.64	21.51	22.70

【LTE Band 25_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.35	24.20	24.10	25.00

【LTE Band 25_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.35	24.20	24.10	25.00

【LTE Band 25_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.36	23.20	23.10	24.40

【LTE Band 25_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.36	23.20	23.10	24.40

**【LTE Band 25_Ant 5_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.36	23.20	23.10	24.40

【LTE Band 26_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.12	24.58	24.63	25.00

【LTE Band 26_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.12	24.58	24.63	25.00

【LTE Band 26_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.12	24.58	24.63	25.00

【LTE Band 26_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.12	24.58	24.63	25.00

【LTE Band 26_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.12	24.58	24.63	25.00



【LTE Band 30_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.45		24.50

【LTE Band 30_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.45		24.50

【LTE Band 30_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		21.68		22.90
10	QPSK	1	25		21.50		22.90
10	QPSK	1	49		21.42		22.90
10	QPSK	25	0		20.57		21.90
10	QPSK	25	12		20.54		21.90
10	QPSK	25	25		20.56		21.90
10	QPSK	50	0		19.95		21.90
10	16QAM	1	0		21.16		21.90
10	16QAM	1	25		20.88		21.90
10	16QAM	1	49		20.78		21.90
10	16QAM	25	0		19.59		20.90
10	16QAM	25	12		19.64		20.90
10	16QAM	25	25		19.54		20.90
10	16QAM	50	0		19.56		20.90
10	64QAM	1	0		19.92		20.90
10	64QAM	1	25		19.80		20.90
10	64QAM	1	49		19.79		20.90
10	64QAM	25	0		18.60		19.90
10	64QAM	25	12		18.55		19.90
10	64QAM	25	25		18.49		19.90
10	64QAM	50	0		18.52		19.90
10	256QAM	1	0		16.60		17.90
10	256QAM	1	25		16.64		17.90
10	256QAM	1	49		16.48		17.90
10	256QAM	25	0		16.56		17.90
10	256QAM	25	12		16.56		17.90
10	256QAM	25	25		16.55		17.90
10	256QAM	50	0		16.51		17.90
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.62	21.65	21.60	22.90
5	QPSK	1	12	21.33	21.48	21.29	22.90
5	QPSK	1	24	21.47	21.52	21.38	22.90
5	QPSK	12	0	20.34	20.46	20.36	21.90
5	QPSK	12	7	20.40	20.47	20.36	21.90
5	QPSK	12	13	20.41	20.56	20.38	21.90
5	QPSK	25	0	19.91	19.94	19.92	21.90
5	16QAM	1	0	20.97	21.10	21.03	21.90
5	16QAM	1	12	20.67	20.81	20.67	21.90
5	16QAM	1	24	20.59	20.69	20.60	21.90
5	16QAM	12	0	19.40	19.58	19.40	20.90
5	16QAM	12	7	19.62	19.67	19.48	20.90
5	16QAM	12	13	19.45	19.56	19.39	20.90
5	16QAM	25	0	19.48	19.65	19.55	20.90
5	64QAM	1	0	19.78	19.89	19.83	20.90
5	64QAM	1	12	19.83	19.89	19.81	20.90
5	64QAM	1	24	19.58	19.69	19.59	20.90



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5	64QAM	12	0	18.52	18.67	18.49	19.90
5	64QAM	12	7	18.32	18.48	18.32	19.90
5	64QAM	12	13	18.31	18.43	18.24	19.90
5	64QAM	25	0	18.29	18.42	18.31	19.90
5	256QAM	1	0	16.60	16.67	16.58	17.90
5	256QAM	1	12	16.51	16.60	16.44	17.90
5	256QAM	1	24	16.43	16.52	16.47	17.90
5	256QAM	12	0	16.44	16.50	16.35	17.90
5	256QAM	12	7	16.44	16.53	16.36	17.90
5	256QAM	12	13	16.58	16.65	16.51	17.90
5	256QAM	25	0	16.29	16.41	16.23	17.90

【LTE Band 30_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.45		24.50

【LTE Band 30_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.45		24.50

【LTE Band 30_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		24.03		24.50

【LTE Band 30_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		24.03		24.50

【LTE Band 30_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		24.03		24.50

**【LTE Band 30_Ant 5_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		24.03		24.50

【LTE Band 30_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		24.03		24.50

【LTE Band 38_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.53	23.55	23.57	25.00
20	QPSK	50	0	22.60	22.61	22.66	24.00

【LTE Band 38_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	0.00	0.00	0.00	25.00
20	QPSK	50	0	0.00	0.00	0.00	24.00

【LTE Band 41_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.01	23.82	23.79	23.79	24.12	25.00
20	QPSK	50	0					23.16	24.00

【LTE Band 41_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.01	23.82	23.79	23.79	24.12	25.00



【LTE Band 41_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.39	21.47	21.69	21.75	21.76	22.50
20	QPSK	1	49	21.52	21.46	21.61	21.68	21.74	22.50
20	QPSK	1	99	21.47	21.45	21.56	21.75	21.71	22.50
20	QPSK	50	0	20.55	20.60	20.75	20.83	20.85	21.50
20	QPSK	50	24	20.53	20.59	20.74	20.73	20.75	21.50
20	QPSK	50	50	20.52	20.52	20.70	20.82	20.82	21.50
20	QPSK	100	0	20.57	20.56	20.75	20.83	20.83	21.50
20	16QAM	1	0	20.48	20.40	20.66	20.88	20.79	21.50
20	16QAM	1	49	20.76	20.63	20.83	20.75	20.85	21.50
20	16QAM	1	99	20.49	20.45	20.61	20.78	20.78	21.50
20	16QAM	50	0	19.43	19.47	19.65	19.76	19.75	20.50
20	16QAM	50	24	19.52	19.58	19.75	19.75	19.84	20.50
20	16QAM	50	50	19.48	19.50	19.67	19.79	19.81	20.50
20	16QAM	100	0	19.57	19.60	19.74	19.81	19.82	20.50
20	64QAM	1	0	19.47	19.39	19.59	19.71	19.67	20.50
20	64QAM	1	49	19.41	19.44	19.75	19.70	19.64	20.50
20	64QAM	1	99	19.41	19.52	19.61	19.71	19.68	20.50
20	64QAM	50	0	18.40	18.45	18.55	18.74	18.76	19.50
20	64QAM	50	24	18.53	18.51	18.71	18.77	18.83	19.50
20	64QAM	50	50	18.50	18.53	18.63	18.80	18.80	19.50
20	64QAM	100	0	18.57	18.60	18.75	18.81	18.81	19.50
20	256QAM	1	0	16.40	16.29	16.59	16.64	16.69	17.50
20	256QAM	1	49	16.36	16.48	16.54	16.72	16.70	17.50
20	256QAM	1	99	16.53	16.61	16.73	16.76	16.74	17.50
20	256QAM	50	0	16.46	16.50	16.65	16.73	16.73	17.50
20	256QAM	50	24	16.58	16.60	16.78	16.74	16.83	17.50
20	256QAM	50	50	16.52	16.59	16.72	16.79	16.81	17.50
20	256QAM	100	0	16.58	16.58	16.75	16.81	16.82	17.50
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.34	21.45	21.56	21.61	21.71	22.50
15	QPSK	1	37	21.37	21.35	21.51	21.63	21.71	22.50
15	QPSK	1	74	21.39	21.42	21.47	21.72	21.63	22.50
15	QPSK	36	0	20.40	20.42	20.63	20.63	20.73	21.50
15	QPSK	36	20	20.47	20.58	20.64	20.58	20.79	21.50
15	QPSK	36	39	20.50	20.40	20.67	20.76	20.75	21.50
15	QPSK	75	0	20.51	20.44	20.71	20.80	20.74	21.50
15	16QAM	1	0	20.33	20.31	20.63	20.83	20.71	21.50
15	16QAM	1	37	20.62	20.54	20.71	20.69	20.75	21.50
15	16QAM	1	74	20.41	20.41	20.52	20.71	20.69	21.50
15	16QAM	36	0	19.40	19.46	19.55	19.74	19.64	20.50
15	16QAM	36	20	19.41	19.55	19.73	19.64	19.69	20.50
15	16QAM	36	39	19.38	19.40	19.54	19.77	19.73	20.50
15	16QAM	75	0	19.46	19.48	19.70	19.67	19.72	20.50
15	64QAM	1	0	19.33	19.38	19.51	19.63	19.65	20.50
15	64QAM	1	37	19.31	19.38	19.67	19.63	19.54	20.50
15	64QAM	1	74	19.29	19.46	19.55	19.58	19.64	20.50
15	64QAM	36	0	18.32	18.37	18.46	18.60	18.73	19.50
15	64QAM	36	20	18.44	18.48	18.64	18.66	18.76	19.50
15	64QAM	36	39	18.45	18.50	18.61	18.66	18.68	19.50
15	64QAM	75	0	18.55	18.51	18.62	18.73	18.78	19.50
15	256QAM	1	0	16.37	16.23	16.52	16.56	16.66	17.50
15	256QAM	1	37	16.24	16.34	16.49	16.58	16.59	17.50
15	256QAM	1	74	16.43	16.58	16.60	16.74	16.60	17.50
15	256QAM	36	0	16.34	16.46	16.53	16.71	16.63	17.50
15	256QAM	36	20	16.46	16.47	16.64	16.60	16.72	17.50
15	256QAM	36	39	16.40	16.49	16.67	16.66	16.79	17.50
15	256QAM	75	0	16.54	16.56	16.68	16.67	16.74	17.50
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.34	21.39	21.64	21.68	21.72	22.50
10	QPSK	1	25	21.39	21.38	21.56	21.55	21.63	22.50
10	QPSK	1	49	21.38	21.31	21.44	21.62	21.61	22.50
10	QPSK	25	0	20.42	20.40	20.59	20.66	20.71	21.50
10	QPSK	25	12	20.52	20.54	20.66	20.72	20.81	21.50
10	QPSK	25	25	20.39	20.47	20.67	20.73	20.81	21.50
10	QPSK	50	0	20.45	20.42	20.60	20.80	20.78	21.50
10	16QAM	1	0	20.34	20.29	20.54	20.83	20.66	21.50
10	16QAM	1	25	20.68	20.58	20.75	20.70	20.76	21.50
10	16QAM	1	49	20.41	20.40	20.60	20.64	20.74	21.50



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10	16QAM	25	0	19.33	19.40	19.60	19.74	19.72	20.50
10	16QAM	25	12	19.46	19.53	19.61	19.62	19.70	20.50
10	16QAM	25	25	19.46	19.36	19.61	19.71	19.72	20.50
10	16QAM	50	0	19.51	19.52	19.69	19.80	19.74	20.50
10	64QAM	1	0	19.34	19.30	19.56	19.68	19.56	20.50
10	64QAM	1	25	19.34	19.30	19.71	19.58	19.50	20.50
10	64QAM	1	49	19.36	19.50	19.59	19.68	19.61	20.50
10	64QAM	25	0	18.26	18.41	18.42	18.60	18.62	19.50
10	64QAM	25	12	18.40	18.43	18.66	18.66	18.75	19.50
10	64QAM	25	25	18.49	18.39	18.59	18.70	18.72	19.50
10	64QAM	50	0	18.52	18.49	18.60	18.71	18.67	19.50
10	256QAM	1	0	16.34	16.21	16.52	16.55	16.62	17.50
10	256QAM	1	25	16.25	16.46	16.42	16.63	16.55	17.50
10	256QAM	1	49	16.46	16.60	16.58	16.61	16.69	17.50
10	256QAM	25	0	16.34	16.48	16.57	16.67	16.64	17.50
10	256QAM	25	12	16.48	16.51	16.69	16.71	16.72	17.50
10	256QAM	25	25	16.49	16.48	16.70	16.64	16.78	17.50
10	256QAM	50	0	16.49	16.50	16.69	16.77	16.77	17.50
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.34	21.42	21.60	21.73	21.67	22.50
5	QPSK	1	12	21.39	21.41	21.58	21.57	21.68	22.50
5	QPSK	1	24	21.32	21.34	21.54	21.62	21.61	22.50
5	QPSK	12	0	20.31	20.36	20.55	20.67	20.62	21.50
5	QPSK	12	7	20.49	20.55	20.63	20.63	20.75	21.50
5	QPSK	12	13	20.47	20.46	20.57	20.77	20.80	21.50
5	QPSK	25	0	20.51	20.52	20.68	20.72	20.73	21.50
5	16QAM	1	0	20.45	20.36	20.63	20.75	20.65	21.50
5	16QAM	1	12	20.64	20.57	20.68	20.66	20.83	21.50
5	16QAM	1	24	20.40	20.42	20.59	20.71	20.75	21.50
5	16QAM	12	0	19.40	19.36	19.54	19.73	19.70	20.50
5	16QAM	12	7	19.50	19.46	19.60	19.66	19.72	20.50
5	16QAM	12	13	19.40	19.48	19.61	19.72	19.69	20.50
5	16QAM	25	0	19.46	19.55	19.67	19.76	19.74	20.50
5	64QAM	1	0	19.40	19.37	19.54	19.61	19.59	20.50
5	64QAM	1	12	19.30	19.34	19.74	19.58	19.55	20.50
5	64QAM	1	24	19.38	19.49	19.58	19.64	19.63	20.50
5	64QAM	12	0	18.31	18.34	18.53	18.60	18.67	19.50
5	64QAM	12	7	18.44	18.48	18.70	18.70	18.71	19.50
5	64QAM	12	13	18.45	18.49	18.49	18.67	18.71	19.50
5	64QAM	25	0	18.49	18.57	18.73	18.69	18.70	19.50
5	256QAM	1	0	16.30	16.20	16.57	16.51	16.60	17.50
5	256QAM	1	12	16.30	16.39	16.48	16.69	16.67	17.50
5	256QAM	1	24	16.46	16.50	16.60	16.74	16.61	17.50
5	256QAM	12	0	16.44	16.40	16.60	16.63	16.66	17.50
5	256QAM	12	7	16.55	16.53	16.75	16.60	16.79	17.50
5	256QAM	12	13	16.48	16.55	16.64	16.77	16.66	17.50
5	256QAM	25	0	16.48	16.48	16.64	16.72	16.80	17.50

【LTE Band 41_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.01	23.82	23.79	23.79	24.12	25.00

【LTE Band 41_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.01	23.82	23.79	23.79	24.12	25.00

**【LTE Band 41_HPUE_Ant 8_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.94	25.75	25.74	25.77	26.12	27.00

【LTE Band 41_HPUE_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.94	25.75	25.74	25.77	26.12	27.00

【LTE Band 41_HPUE_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.42	23.34	23.56	23.50	23.55	24.10
20	QPSK	1	49	23.21	23.32	23.47	23.42	23.44	24.10
20	QPSK	1	99	23.33	23.31	23.49	23.41	23.39	24.10
20	QPSK	50	0	22.32	22.44	22.50	22.52	22.53	23.10
20	QPSK	50	24	22.36	22.48	22.51	22.60	22.55	23.10
20	QPSK	50	50	22.27	22.54	22.52	22.57	22.57	23.10
20	QPSK	100	0	22.32	22.49	22.54	22.59	22.52	23.10
20	16QAM	1	0	22.36	22.45	22.51	22.54	22.55	23.10
20	16QAM	1	49	22.29	22.44	22.46	22.50	22.52	23.10
20	16QAM	1	99	22.17	22.52	22.45	22.48	22.49	23.10
20	16QAM	50	0	21.29	21.60	21.52	21.54	21.58	22.10
20	16QAM	50	24	21.30	21.50	21.52	21.55	21.58	22.10
20	16QAM	50	50	21.28	21.59	21.42	21.50	21.60	22.10
20	16QAM	100	0	21.39	21.59	21.59	21.54	21.54	22.10
20	64QAM	1	0	21.27	21.48	21.43	21.53	21.57	22.10
20	64QAM	1	49	21.18	21.45	21.38	21.48	21.52	22.10
20	64QAM	1	99	21.20	21.50	21.38	21.45	21.50	22.10
20	64QAM	50	0	20.23	20.60	20.44	20.53	20.56	21.10
20	64QAM	50	24	20.22	20.47	20.46	20.50	20.53	21.10
20	64QAM	50	50	20.32	20.53	20.51	20.59	20.57	21.10
20	64QAM	100	0	20.34	20.46	20.50	20.52	20.54	21.10
20	256QAM	1	0	18.38	18.53	18.51	18.54	18.59	19.10
20	256QAM	1	49	18.29	18.50	18.50	18.56	18.54	19.10
20	256QAM	1	99	18.35	18.47	18.49	18.53	18.50	19.10
20	256QAM	50	0	18.24	18.44	18.46	18.54	18.56	19.10
20	256QAM	50	24	18.25	18.58	18.51	18.53	18.50	19.10
20	256QAM	50	50	18.36	18.59	18.57	18.60	18.59	19.10
20	256QAM	100	0	18.19	18.47	18.38	18.46	18.53	19.10
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.41	23.22	23.49	23.39	23.44	24.10
15	QPSK	1	37	23.19	23.30	23.44	23.33	23.31	24.10
15	QPSK	1	74	23.30	23.23	23.34	23.36	23.29	24.10
15	QPSK	36	0	22.25	22.38	22.42	22.47	22.41	23.10
15	QPSK	36	20	22.26	22.37	22.44	22.57	22.43	23.10
15	QPSK	36	39	22.26	22.41	22.38	22.42	22.53	23.10
15	QPSK	75	0	22.30	22.47	22.40	22.51	22.39	23.10
15	16QAM	1	0	22.29	22.43	22.45	22.47	22.42	23.10
15	16QAM	1	37	22.17	22.31	22.44	22.49	22.43	23.10
15	16QAM	1	74	22.04	22.49	22.43	22.36	22.41	23.10
15	16QAM	36	0	21.22	21.57	21.41	21.40	21.43	22.10
15	16QAM	36	20	21.19	21.36	21.45	21.41	21.47	22.10
15	16QAM	36	39	21.25	21.50	21.27	21.35	21.57	22.10
15	16QAM	75	0	21.35	21.45	21.48	21.41	21.51	22.10
15	64QAM	1	0	21.13	21.34	21.39	21.49	21.54	22.10
15	64QAM	1	37	21.17	21.33	21.32	21.34	21.47	22.10
15	64QAM	1	74	21.06	21.38	21.26	21.36	21.46	22.10



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15	64QAM	36	0	20.13	20.59	20.32	20.40	20.41	21.10
15	64QAM	36	20	20.17	20.41	20.38	20.43	20.38	21.10
15	64QAM	36	39	20.18	20.46	20.38	20.45	20.44	21.10
15	64QAM	75	0	20.26	20.41	20.40	20.38	20.43	21.10
15	256QAM	1	0	18.34	18.51	18.45	18.51	18.56	19.10
15	256QAM	1	37	18.18	18.46	18.39	18.51	18.43	19.10
15	256QAM	1	74	18.28	18.37	18.41	18.51	18.37	19.10
15	256QAM	36	0	18.10	18.35	18.42	18.46	18.46	19.10
15	256QAM	36	20	18.17	18.53	18.37	18.47	18.48	19.10
15	256QAM	36	39	18.25	18.47	18.42	18.56	18.47	19.10
15	256QAM	75	0	18.05	18.37	18.28	18.45	18.38	19.10
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.30	23.32	23.45	23.48	23.51	24.10
10	QPSK	1	25	23.07	23.21	23.39	23.38	23.29	24.10
10	QPSK	1	49	23.20	23.17	23.36	23.27	23.31	24.10
10	QPSK	25	0	22.19	22.35	22.36	22.43	22.41	23.10
10	QPSK	25	12	22.21	22.37	22.41	22.56	22.47	23.10
10	QPSK	25	25	22.17	22.51	22.50	22.52	22.48	23.10
10	QPSK	50	0	22.18	22.34	22.39	22.47	22.47	23.10
10	16QAM	1	0	22.31	22.30	22.36	22.52	22.52	23.10
10	16QAM	1	25	22.23	22.39	22.34	22.36	22.40	23.10
10	16QAM	1	49	22.12	22.43	22.40	22.45	22.34	23.10
10	16QAM	25	0	21.27	21.46	21.41	21.50	21.49	22.10
10	16QAM	25	12	21.29	21.44	21.40	21.52	21.45	22.10
10	16QAM	25	25	21.25	21.54	21.29	21.48	21.57	22.10
10	16QAM	50	0	21.28	21.51	21.48	21.49	21.48	22.10
10	64QAM	1	0	21.17	21.41	21.31	21.46	21.48	22.10
10	64QAM	1	25	21.15	21.31	21.27	21.40	21.51	22.10
10	64QAM	1	49	21.18	21.40	21.26	21.32	21.42	22.10
10	64QAM	25	0	20.21	20.49	20.43	20.48	20.54	21.10
10	64QAM	25	12	20.17	20.34	20.37	20.44	20.45	21.10
10	64QAM	25	25	20.19	20.51	20.43	20.55	20.45	21.10
10	64QAM	50	0	20.31	20.34	20.38	20.48	20.48	21.10
10	256QAM	1	0	18.29	18.43	18.40	18.51	18.56	19.10
10	256QAM	1	25	18.15	18.45	18.38	18.50	18.40	19.10
10	256QAM	1	49	18.26	18.45	18.48	18.48	18.46	19.10
10	256QAM	25	0	18.16	18.35	18.35	18.39	18.49	19.10
10	256QAM	25	12	18.11	18.51	18.39	18.49	18.36	19.10
10	256QAM	25	25	18.23	18.57	18.51	18.46	18.52	19.10
10	256QAM	50	0	18.12	18.42	18.27	18.42	18.50	19.10
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	(dBm)
5	QPSK	1	0	23.37	23.28	23.53	23.47	23.43	24.10
5	QPSK	1	12	23.08	23.28	23.33	23.28	23.32	24.10
5	QPSK	1	24	23.21	23.17	23.46	23.37	23.35	24.10
5	QPSK	12	0	22.18	22.32	22.39	22.41	22.41	23.10
5	QPSK	12	7	22.25	22.35	22.43	22.47	22.52	23.10
5	QPSK	12	13	22.24	22.48	22.41	22.44	22.46	23.10
5	QPSK	25	0	22.27	22.37	22.41	22.54	22.49	23.10
5	16QAM	1	0	22.28	22.41	22.42	22.51	22.44	23.10
5	16QAM	1	12	22.21	22.41	22.43	22.39	22.44	23.10
5	16QAM	1	24	22.05	22.39	22.32	22.45	22.47	23.10
5	16QAM	12	0	21.19	21.50	21.46	21.50	21.52	22.10
5	16QAM	12	7	21.26	21.45	21.44	21.51	21.55	22.10
5	16QAM	12	13	21.18	21.55	21.40	21.46	21.51	22.10
5	16QAM	25	0	21.33	21.46	21.54	21.45	21.40	22.10
5	64QAM	1	0	21.22	21.44	21.30	21.48	21.52	22.10
5	64QAM	1	12	21.04	21.31	21.30	21.44	21.50	22.10
5	64QAM	1	24	21.06	21.36	21.31	21.43	21.43	22.10
5	64QAM	12	0	20.21	20.48	20.39	20.41	20.53	21.10
5	64QAM	12	7	20.20	20.40	20.45	20.47	20.49	21.10
5	64QAM	12	13	20.17	20.42	20.47	20.51	20.45	21.10
5	64QAM	25	0	20.25	20.36	20.45	20.41	20.40	21.10
5	256QAM	1	0	18.27	18.41	18.45	18.52	18.49	19.10
5	256QAM	1	12	18.20	18.40	18.45	18.53	18.40	19.10
5	256QAM	1	24	18.25	18.36	18.44	18.44	18.46	19.10
5	256QAM	12	0	18.13	18.32	18.39	18.52	18.45	19.10
5	256QAM	12	7	18.21	18.55	18.38	18.46	18.39	19.10
5	256QAM	12	13	18.21	18.48	18.48	18.52	18.45	19.10
5	256QAM	25	0	18.14	18.37	18.28	18.35	18.38	19.10

**【LTE Band 41_HPUE_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.94	25.75	25.74	25.77	26.12	27.00

【LTE Band 41_HPUE_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.94	25.75	25.74	25.77	26.12	27.00

【LTE Band 41_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.15	24.23	24.21	24.49	24.64	25.00

【LTE Band 41_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.19	23.21	23.19	23.45	23.56	24.00
20	QPSK	1	49	0.00	0.00	0.00	0.00	0.00	24.00
20	QPSK	1	99	0.00	0.00	0.00	0.00	0.00	24.00
20	QPSK	50	0	0.00	0.00	0.00	0.00	0.00	23.00
20	QPSK	50	24	0.00	0.00	0.00	0.00	0.00	23.00
20	QPSK	50	50	0.00	0.00	0.00	0.00	0.00	23.00
20	QPSK	100	0	0.00	0.00	0.00	0.00	0.00	23.00
20	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	23.00
20	16QAM	1	49	0.00	0.00	0.00	0.00	0.00	23.00
20	16QAM	1	99	0.00	0.00	0.00	0.00	0.00	23.00
20	16QAM	50	0	0.00	0.00	0.00	0.00	0.00	22.00
20	16QAM	50	24	0.00	0.00	0.00	0.00	0.00	22.00
20	16QAM	50	50	0.00	0.00	0.00	0.00	0.00	22.00
20	16QAM	100	0	0.00	0.00	0.00	0.00	0.00	22.00
20	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
20	64QAM	1	49	0.00	0.00	0.00	0.00	0.00	22.00
20	64QAM	1	99	0.00	0.00	0.00	0.00	0.00	22.00
20	64QAM	50	0	0.00	0.00	0.00	0.00	0.00	21.00
20	64QAM	50	24	0.00	0.00	0.00	0.00	0.00	21.00
20	64QAM	50	50	0.00	0.00	0.00	0.00	0.00	21.00
20	64QAM	100	0	0.00	0.00	0.00	0.00	0.00	21.00
20	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	1	49	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	1	99	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	50	0	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	50	24	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	50	50	0.00	0.00	0.00	0.00	0.00	19.00
20	256QAM	100	0	0.00	0.00	0.00	0.00	0.00	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	24.00
15	QPSK	1	37	0.00	0.00	0.00	0.00	0.00	24.00
15	QPSK	1	74	0.00	0.00	0.00	0.00	0.00	24.00
15	QPSK	36	0	0.00	0.00	0.00	0.00	0.00	23.00
15	QPSK	36	20	0.00	0.00	0.00	0.00	0.00	23.00



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15	QPSK	36	39	0.00	0.00	0.00	0.00	0.00	23.00
15	QPSK	75	0	0.00	0.00	0.00	0.00	0.00	23.00
15	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	23.00
15	16QAM	1	37	0.00	0.00	0.00	0.00	0.00	23.00
15	16QAM	1	74	0.00	0.00	0.00	0.00	0.00	23.00
15	16QAM	36	0	0.00	0.00	0.00	0.00	0.00	22.00
15	16QAM	36	20	0.00	0.00	0.00	0.00	0.00	22.00
15	16QAM	36	39	0.00	0.00	0.00	0.00	0.00	22.00
15	16QAM	75	0	0.00	0.00	0.00	0.00	0.00	22.00
15	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
15	64QAM	1	37	0.00	0.00	0.00	0.00	0.00	22.00
15	64QAM	1	74	0.00	0.00	0.00	0.00	0.00	22.00
15	64QAM	36	0	0.00	0.00	0.00	0.00	0.00	21.00
15	64QAM	36	20	0.00	0.00	0.00	0.00	0.00	21.00
15	64QAM	36	39	0.00	0.00	0.00	0.00	0.00	21.00
15	64QAM	75	0	0.00	0.00	0.00	0.00	0.00	21.00
15	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	1	37	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	1	74	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	36	0	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	36	20	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	36	39	0.00	0.00	0.00	0.00	0.00	19.00
15	256QAM	75	0	0.00	0.00	0.00	0.00	0.00	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	24.00
10	QPSK	1	25	0.00	0.00	0.00	0.00	0.00	24.00
10	QPSK	1	49	0.00	0.00	0.00	0.00	0.00	24.00
10	QPSK	25	0	0.00	0.00	0.00	0.00	0.00	23.00
10	QPSK	25	12	0.00	0.00	0.00	0.00	0.00	23.00
10	QPSK	25	25	0.00	0.00	0.00	0.00	0.00	23.00
10	QPSK	50	0	0.00	0.00	0.00	0.00	0.00	23.00
10	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	23.00
10	16QAM	1	25	0.00	0.00	0.00	0.00	0.00	23.00
10	16QAM	1	49	0.00	0.00	0.00	0.00	0.00	23.00
10	16QAM	25	0	0.00	0.00	0.00	0.00	0.00	22.00
10	16QAM	25	12	0.00	0.00	0.00	0.00	0.00	22.00
10	16QAM	25	25	0.00	0.00	0.00	0.00	0.00	22.00
10	16QAM	50	0	0.00	0.00	0.00	0.00	0.00	22.00
10	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
10	64QAM	1	25	0.00	0.00	0.00	0.00	0.00	22.00
10	64QAM	1	49	0.00	0.00	0.00	0.00	0.00	22.00
10	64QAM	25	0	0.00	0.00	0.00	0.00	0.00	21.00
10	64QAM	25	12	0.00	0.00	0.00	0.00	0.00	21.00
10	64QAM	25	25	0.00	0.00	0.00	0.00	0.00	21.00
10	64QAM	50	0	0.00	0.00	0.00	0.00	0.00	21.00
10	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	1	25	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	1	49	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	25	0	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	25	12	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	25	25	0.00	0.00	0.00	0.00	0.00	19.00
10	256QAM	50	0	0.00	0.00	0.00	0.00	0.00	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	24.00
5	QPSK	1	12	0.00	0.00	0.00	0.00	0.00	24.00
5	QPSK	1	24	0.00	0.00	0.00	0.00	0.00	24.00
5	QPSK	12	0	0.00	0.00	0.00	0.00	0.00	23.00
5	QPSK	12	7	0.00	0.00	0.00	0.00	0.00	23.00
5	QPSK	12	13	0.00	0.00	0.00	0.00	0.00	23.00
5	QPSK	25	0	0.00	0.00	0.00	0.00	0.00	23.00
5	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	23.00
5	16QAM	1	12	0.00	0.00	0.00	0.00	0.00	23.00
5	16QAM	1	24	0.00	0.00	0.00	0.00	0.00	23.00
5	16QAM	12	0	0.00	0.00	0.00	0.00	0.00	22.00
5	16QAM	12	7	0.00	0.00	0.00	0.00	0.00	22.00
5	16QAM	12	13	0.00	0.00	0.00	0.00	0.00	22.00
5	16QAM	25	0	0.00	0.00	0.00	0.00	0.00	22.00
5	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
5	64QAM	1	12	0.00	0.00	0.00	0.00	0.00	22.00
5	64QAM	1	24	0.00	0.00	0.00	0.00	0.00	22.00
5	64QAM	12	0	0.00	0.00	0.00	0.00	0.00	21.00
5	64QAM	12	7	0.00	0.00	0.00	0.00	0.00	21.00
5	64QAM	12	13	0.00	0.00	0.00	0.00	0.00	21.00
5	64QAM	25	0	0.00	0.00	0.00	0.00	0.00	21.00
5	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	19.00
5	256QAM	1	12	0.00	0.00	0.00	0.00	0.00	19.00



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5	256QAM	1	24	0.00	0.00	0.00	0.00	0.00	19.00
5	256QAM	12	0	0.00	0.00	0.00	0.00	0.00	19.00
5	256QAM	12	7	0.00	0.00	0.00	0.00	0.00	19.00
5	256QAM	12	13	0.00	0.00	0.00	0.00	0.00	19.00
5	256QAM	25	0	0.00	0.00	0.00	0.00	0.00	19.00

【LTE Band 41_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.15	24.23	24.21	24.49	24.64	25.00

【LTE Band 41_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.15	24.23	24.21	24.49	24.64	25.00

【LTE Band 41_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.15	24.23	24.21	24.49	24.64	25.00

【LTE Band 41_HPUE_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.18	26.17	26.17	26.30	26.53	27.00

【LTE Band 41_HPUE_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	0.00	0.00	0.00	26.30	0.00	27.00
20	QPSK	1	49	0.00	0.00	0.00	0.00	0.00	27.00
20	QPSK	1	99	0.00	0.00	0.00	0.00	0.00	27.00
20	QPSK	50	0	0.00	0.00	0.00	0.00	0.00	26.00
20	QPSK	50	24	0.00	0.00	0.00	0.00	0.00	26.00
20	QPSK	50	50	0.00	0.00	0.00	0.00	0.00	26.00
20	QPSK	100	0	0.00	0.00	0.00	0.00	0.00	26.00
20	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	26.00
20	16QAM	1	49	0.00	0.00	0.00	0.00	0.00	26.00
20	16QAM	1	99	0.00	0.00	0.00	0.00	0.00	26.00
20	16QAM	50	0	0.00	0.00	0.00	0.00	0.00	25.00
20	16QAM	50	24	0.00	0.00	0.00	0.00	0.00	25.00
20	16QAM	50	50	0.00	0.00	0.00	0.00	0.00	25.00
20	16QAM	100	0	0.00	0.00	0.00	0.00	0.00	25.00
20	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	25.00



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20	64QAM	1	49	0.00	0.00	0.00	0.00	0.00	25.00
20	64QAM	1	99	0.00	0.00	0.00	0.00	0.00	25.00
20	64QAM	50	0	0.00	0.00	0.00	0.00	0.00	24.00
20	64QAM	50	24	0.00	0.00	0.00	0.00	0.00	24.00
20	64QAM	50	50	0.00	0.00	0.00	0.00	0.00	24.00
20	64QAM	100	0	0.00	0.00	0.00	0.00	0.00	24.00
20	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	1	49	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	1	99	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	50	0	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	50	24	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	50	50	0.00	0.00	0.00	0.00	0.00	22.00
20	256QAM	100	0	0.00	0.00	0.00	0.00	0.00	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)
15	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	27.00
15	QPSK	1	37	0.00	0.00	0.00	0.00	0.00	27.00
15	QPSK	1	74	0.00	0.00	0.00	0.00	0.00	27.00
15	QPSK	36	0	0.00	0.00	0.00	0.00	0.00	26.00
15	QPSK	36	20	0.00	0.00	0.00	0.00	0.00	26.00
15	QPSK	36	39	0.00	0.00	0.00	0.00	0.00	26.00
15	QPSK	75	0	0.00	0.00	0.00	0.00	0.00	26.00
15	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	26.00
15	16QAM	1	37	0.00	0.00	0.00	0.00	0.00	26.00
15	16QAM	1	74	0.00	0.00	0.00	0.00	0.00	26.00
15	16QAM	36	0	0.00	0.00	0.00	0.00	0.00	25.00
15	16QAM	36	20	0.00	0.00	0.00	0.00	0.00	25.00
15	16QAM	36	39	0.00	0.00	0.00	0.00	0.00	25.00
15	16QAM	75	0	0.00	0.00	0.00	0.00	0.00	25.00
15	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	25.00
15	64QAM	1	37	0.00	0.00	0.00	0.00	0.00	25.00
15	64QAM	1	74	0.00	0.00	0.00	0.00	0.00	25.00
15	64QAM	36	0	0.00	0.00	0.00	0.00	0.00	24.00
15	64QAM	36	20	0.00	0.00	0.00	0.00	0.00	24.00
15	64QAM	36	39	0.00	0.00	0.00	0.00	0.00	24.00
15	64QAM	75	0	0.00	0.00	0.00	0.00	0.00	24.00
15	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	1	37	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	1	74	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	36	0	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	36	20	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	36	39	0.00	0.00	0.00	0.00	0.00	22.00
15	256QAM	75	0	0.00	0.00	0.00	0.00	0.00	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	27.00
10	QPSK	1	25	0.00	0.00	0.00	0.00	0.00	27.00
10	QPSK	1	49	0.00	0.00	0.00	0.00	0.00	27.00
10	QPSK	25	0	0.00	0.00	0.00	0.00	0.00	26.00
10	QPSK	25	12	0.00	0.00	0.00	0.00	0.00	26.00
10	QPSK	25	25	0.00	0.00	0.00	0.00	0.00	26.00
10	QPSK	50	0	0.00	0.00	0.00	0.00	0.00	26.00
10	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	26.00
10	16QAM	1	25	0.00	0.00	0.00	0.00	0.00	26.00
10	16QAM	1	49	0.00	0.00	0.00	0.00	0.00	26.00
10	16QAM	25	0	0.00	0.00	0.00	0.00	0.00	25.00
10	16QAM	25	12	0.00	0.00	0.00	0.00	0.00	25.00
10	16QAM	25	25	0.00	0.00	0.00	0.00	0.00	25.00
10	16QAM	50	0	0.00	0.00	0.00	0.00	0.00	25.00
10	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	25.00
10	64QAM	1	25	0.00	0.00	0.00	0.00	0.00	25.00
10	64QAM	1	49	0.00	0.00	0.00	0.00	0.00	25.00
10	64QAM	25	0	0.00	0.00	0.00	0.00	0.00	24.00
10	64QAM	25	12	0.00	0.00	0.00	0.00	0.00	24.00
10	64QAM	25	25	0.00	0.00	0.00	0.00	0.00	24.00
10	64QAM	50	0	0.00	0.00	0.00	0.00	0.00	24.00
10	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	1	25	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	1	49	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	25	0	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	25	12	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	25	25	0.00	0.00	0.00	0.00	0.00	22.00
10	256QAM	50	0	0.00	0.00	0.00	0.00	0.00	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	(dBm)
5	QPSK	1	0	0.00	0.00	0.00	0.00	0.00	27.00
5	QPSK	1	12	0.00	0.00	0.00	0.00	0.00	27.00
5	QPSK	1	24	0.00	0.00	0.00	0.00	0.00	27.00

5	QPSK	12	0	0.00	0.00	0.00	0.00	0.00	26.00
5	QPSK	12	7	0.00	0.00	0.00	0.00	0.00	26.00
5	QPSK	12	13	0.00	0.00	0.00	0.00	0.00	26.00
5	QPSK	25	0	0.00	0.00	0.00	0.00	0.00	26.00
5	16QAM	1	0	0.00	0.00	0.00	0.00	0.00	26.00
5	16QAM	1	12	0.00	0.00	0.00	0.00	0.00	26.00
5	16QAM	1	24	0.00	0.00	0.00	0.00	0.00	26.00
5	16QAM	12	0	0.00	0.00	0.00	0.00	0.00	25.00
5	16QAM	12	7	0.00	0.00	0.00	0.00	0.00	25.00
5	16QAM	12	13	0.00	0.00	0.00	0.00	0.00	25.00
5	16QAM	25	0	0.00	0.00	0.00	0.00	0.00	25.00
5	64QAM	1	0	0.00	0.00	0.00	0.00	0.00	25.00
5	64QAM	1	12	0.00	0.00	0.00	0.00	0.00	25.00
5	64QAM	1	24	0.00	0.00	0.00	0.00	0.00	25.00
5	64QAM	12	0	0.00	0.00	0.00	0.00	0.00	24.00
5	64QAM	12	7	0.00	0.00	0.00	0.00	0.00	24.00
5	64QAM	12	13	0.00	0.00	0.00	0.00	0.00	24.00
5	64QAM	25	0	0.00	0.00	0.00	0.00	0.00	24.00
5	256QAM	1	0	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	1	12	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	1	24	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	12	0	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	12	7	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	12	13	0.00	0.00	0.00	0.00	0.00	22.00
5	256QAM	25	0	0.00	0.00	0.00	0.00	0.00	22.00

【LTE Band 41_HPUE_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.18	26.17	26.17	26.30	26.53	27.00

【LTE Band 41_HPUE_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.18	26.17	26.17	26.30	26.53	27.00

【LTE Band 41_HPUE_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.18	26.17	26.17	26.30	26.53	27.00

【LTE Band 48_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.51	22.34	22.26	22.32	22.85	23.00

**【LTE Band 48_Ant 8_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.51	22.34	22.26	22.32	22.85	23.00

【LTE Band 48_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.51	22.34	22.26	22.32	22.85	23.00

【LTE Band 48_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.51	22.34	22.26	22.32	22.85	23.00

【LTE Band 48_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.51	22.34	22.26	22.32	22.85	24.00

【LTE Band 48_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.14	22.26	22.22	22.24	23.00

【LTE Band 48_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.14	22.26	22.22	22.24	23.00

【LTE Band 48_Ant 9_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.14	22.26	22.22	22.24	23.00

【LTE Band 48_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.14	22.26	22.22	22.24	23.00

【LTE Band 48_Ant 9_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.14	22.26	22.22	22.24	23.00

【LTE Band 53_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				60190	60198	60205	
Frequency (MHz)				2488.5	2489.3	2490	
10	QPSK	1	0	23.05	23.07	23.00	25.00

【LTE Band 53_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				60190	60198	60205	
Frequency (MHz)				2488.5	2489.3	2490	
10	QPSK	1	0	23.05	23.07	23.00	25.00

【LTE Band 53_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				60190	60198	60205	
Frequency (MHz)				2488.5	2489.3	2490	
10	QPSK	1	0	23.05	23.07	23.00	25.00

**【LTE Band 53_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				60190	60198	60205	
Frequency (MHz)				2488.5	2489.3	2490	
10	QPSK	1	0	23.05	23.07	23.00	25.00

【LTE Band 53_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				60190	60198	60205	
Frequency (MHz)				2488.5	2489.3	2490	
10	QPSK	1	0	23.05	23.07	23.00	25.00

【LTE Band 66_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.07	24.27	24.38	25.00

【LTE Band 66_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.07	24.27	24.38	25.00

【LTE Band 66_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.07	24.27	24.38	25.00

【LTE Band 66_Ant 1_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.07	24.27	24.38	25.00

**【LTE Band 66_Ant 1_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.07	24.27	24.38	25.00

【LTE Band 66_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.81	24.11	23.96	25.00

【LTE Band 66_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.81	24.11	23.96	25.00

【LTE Band 66_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.81	24.11	23.96	25.00

【LTE Band 66_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.81	24.11	23.96	25.00

【LTE Band 66_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.81	24.11	23.96	25.00

**【LTE Band 70_Ant 1_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		24.42		25.00

【LTE Band 70_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		24.42		25.00

【LTE Band 70_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		24.42		25.00

【LTE Band 70_Ant 1_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		24.42		25.00

【LTE Band 70_Ant 1_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					133047		
Frequency (MHz)					1702.5		
15	QPSK	1	0		24.42		25.00

【LTE Band 71_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.70	23.94	24.11	25.50

**【LTE Band 71_Ant 8_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.70	23.94	24.11	25.50

【LTE Band 71_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.70	23.94	24.11	25.50

【LTE Band 71_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.70	23.94	24.11	25.50

【LTE Band 71_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.70	23.94	24.11	25.50

【LTE Band 106_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		24.39		25.00

【LTE Band 106_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		24.39		25.00

**【LTE Band 106_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		24.39		25.00

【LTE Band 106_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		24.39		25.00

【LTE Band 106_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					134322		
Frequency (MHz)					899		
3	QPSK	1	0		24.39		25.00

【FR1 n2_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	0.00	0.00	0.00	25.00

【FR1 n5_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.73	23.70	23.81	25.00

【FR1 n5_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.73	23.70	23.81	25.00

**【FR1 n5_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.73	23.70	23.81	25.00

【FR1 n5_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.73	23.70	23.81	25.00

【FR1 n5_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.73	23.70	23.81	25.00

【FR1 n5_Ant 10_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.19	24.20	24.24	25.00

【FR1 n5_Ant 10_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.19	24.20	24.24	25.00

【FR1 n5_Ant 10_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.19	24.20	24.24	25.00

【FR1 n7_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.37	24.33	24.26	25.00

**【FR1 n7_Ant 5_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	25.00
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.37	24.33	24.26	

【FR1 n7_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	22.40
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.00	22.14	22.10	
50	PI/2 BPSK	1	135	21.69	21.88	21.72	22.40
50	PI/2 BPSK	1	268	21.90	22.08	21.98	22.40
50	PI/2 BPSK	135	0	21.77	21.97	21.90	22.40
50	PI/2 BPSK	135	68	21.99	22.17	22.00	22.40
50	PI/2 BPSK	135	135	21.79	22.07	21.90	22.40
50	PI/2 BPSK	270	0	21.78	22.05	21.91	22.40
50	QPSK	1	1	21.85	22.04	21.87	22.40
50	QPSK	1	135	21.50	21.78	21.60	22.40
50	QPSK	1	268	21.78	21.97	21.84	22.40
50	QPSK	135	0	21.56	21.83	21.77	22.40
50	QPSK	135	68	21.79	21.99	21.84	22.40
50	QPSK	135	135	21.68	21.91	21.81	22.40
50	QPSK	270	0	21.64	21.85	21.71	22.40
50	16QAM	1	1	21.82	22.04	21.97	22.40
50	64QAM	1	1	21.84	22.01	21.95	22.40
50	256QAM	1	1	19.65	19.84	19.72	20.50
Channel				504000	507000	510000	22.40
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.96	22.09	21.98	
Channel				503000	507000	511000	22.40
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.95	22.08	21.97	
Channel				502500	507000	511500	22.40
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.89	22.07	22.02	
Channel				502000	507000	512000	22.40
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.97	22.00	21.95	
Channel				501500	507000	512500	22.40
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.85	22.09	22.02	
Channel				501000	507000	513000	22.40
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.97	22.06	22.07	
Channel				500500	507000	513500	22.40
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.96	22.08	21.96	

【FR1 n7_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	25.00
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.37	24.33	24.26	

**【FR1 n7_Ant 5_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.37	24.33	24.26	25.00

【FR1 n7_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.34	24.37	24.29	25.00

【FR1 n7_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.34	24.37	24.29	25.00

【FR1 n7_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.34	24.37	24.29	25.00

【FR1 n7_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.34	24.37	24.29	25.00

【FR1 n7_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.34	24.37	24.29	25.00

【FR1 n12_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.22	25.00

**【FR1 n12_Ant 8_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.22	25.00

【FR1 n12_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.22	25.00

【FR1 n12_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.22	25.00

【FR1 n12_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.22	25.00

【FR1 n13_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.04		25.00

【FR1 n13_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.04		25.00

【FR1 n13_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.04		25.00

**【FR1 n13_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.04		25.00

【FR1 n13_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					156400		
Frequency (MHz)					782		
10	PI/2 BPSK	1	1		24.04		25.00

【FR1 n14_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.93		25.00

【FR1 n14_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.93		25.00

【FR1 n14_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.93		25.00

【FR1 n14_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.93		25.00

【FR1 n14_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		23.93		25.00

**【FR1 n25_Ant 1_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.10	24.26	24.13	25.00

【FR1 n25_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.10	24.26	24.13	25.00

【FR1 n25_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.61	21.85	21.69	22.50

【FR1 n25_Ant 1_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.17	22.20	22.09	22.70

【FR1 n25_Ant 1_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.17	22.20	22.09	22.70

【FR1 n25_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.56	24.64	24.55	25.00

【FR1 n25_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.56	24.64	24.55	25.00

**【FR1 n25_Ant 5_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.64	22.58	22.52	24.20

【FR1 n25_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.56	24.64	24.55	25.00

【FR1 n25_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	24.56	24.64	24.55	25.00

【FR1 n26_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.99	23.95	23.78	25.00

【FR1 n26_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.71	24.76	24.78	25.00

【FR1 n26_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.99	23.95	23.78	25.00

【FR1 n26_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.99	23.95	23.78	25.00

**【FR1 n26_Ant 8_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.99	23.95	23.78	25.00

【FR1 n30_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.16		24.50

【FR1 n30_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.16		24.50

【FR1 n30_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.16		24.50

【FR1 n30_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.16		24.50

【FR1 n30_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.16		24.50

【FR1 n30_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.15		24.50

**【FR1 n30_Ant 8_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.15		24.50

【FR1 n30_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.58		23.30
10	PI/2 BPSK	1	26		22.52		23.30
10	PI/2 BPSK	1	50		22.40		23.30
10	PI/2 BPSK	25	0		22.44		23.30
10	PI/2 BPSK	25	14		22.45		23.30
10	PI/2 BPSK	25	27		22.30		23.30
10	PI/2 BPSK	50	0		22.47		23.30
10	QPSK	1	1		22.40		23.30
10	QPSK	1	26		22.41		23.30
10	QPSK	1	50		22.26		23.30
10	QPSK	25	0		22.32		23.30
10	QPSK	25	14		22.28		23.30
10	QPSK	25	27		22.16		23.30
10	QPSK	50	0		22.30		23.30
10	16QAM	1	1		22.47		23.30
10	64QAM	1	1		21.68		22.90
10	256QAM	1	1		19.35		20.90
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.48	22.52	22.40	23.30

【FR1 n30_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.15		24.50

【FR1 n30_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		24.15		24.50

【FR1 n38_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.26	24.24	24.27	25.00

**【FR1 n38_Ant 8_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.10	22.66	22.40	23.90
40	PI/2 BPSK	1	53	22.24	22.53	22.28	23.90
40	PI/2 BPSK	1	104	22.10	22.65	22.12	23.90
40	PI/2 BPSK	50	0	22.00	22.51	22.17	23.90
40	PI/2 BPSK	50	28	22.21	22.37	22.15	23.90
40	PI/2 BPSK	50	56	21.90	22.43	22.02	23.90
40	PI/2 BPSK	100	0	21.91	22.47	22.15	23.90
40	QPSK	1	1	21.96	22.62	22.18	23.90
40	QPSK	1	53	22.12	22.48	22.12	23.90
40	QPSK	1	104	22.01	22.59	22.37	23.90
40	QPSK	50	0	22.08	22.43	22.14	23.90
40	QPSK	50	28	22.03	22.38	22.05	23.90
40	QPSK	50	56	21.98	22.45	21.98	23.90
40	QPSK	100	0	21.90	22.52	22.10	23.90
40	16QAM	1	1	22.05	22.64	22.16	23.90
40	64QAM	1	1	20.50	21.10	20.64	22.50
40	256QAM	1	1	18.64	19.15	18.75	20.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.98	22.50	22.35	23.90
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.07	22.41	22.33	23.90
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.96	22.40	22.32	23.90
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.97	22.47	22.26	23.90

【FR1 n38_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.79	22.92	22.82	23.90

【FR1 n38_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.79	22.92	22.82	24.10

【FR1 n38_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.79	22.92	22.82	24.10

**【FR1 n41_Ant 3_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.32	23.27	23.08	24.00

【FR1 n41_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.32	23.27	23.08	24.00

【FR1 n41_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.32	23.27	23.08	23.70

【FR1 n41_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.32	23.27	23.08	23.70

【FR1 n41_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.32	23.27	23.08	23.70

【FR1 n41_HPUE_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

**【FR1 n41_HPUE_Ant 3_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

**【FR1 n41_Ant 4_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.04	22.77	22.56	23.00

【FR1 n41_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.04	22.77	22.56	23.00

【FR1 n41_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.04	22.77	22.56	23.00

【FR1 n41_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.04	22.77	22.56	23.00

【FR1 n41_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.04	22.77	22.56	23.00

【FR1 n41_HPUE_Ant 4_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

**【FR1 n41_HPUE_Ant 4_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_HPUE_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	

【FR1 n41_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.24	24.58	24.30	25.00

【FR1 n41_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.24	24.58	24.30	25.00

**【FR1 n41_Ant 5_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.13	22.83	22.32	23.00
100	PI/2 BPSK	1	137	21.61	22.35	21.79	23.00
100	PI/2 BPSK	1	271	21.89	22.65	22.14	23.00
100	PI/2 BPSK	135	0	21.85	22.61	22.07	23.00
100	PI/2 BPSK	135	69	22.01	22.67	21.78	23.00
100	PI/2 BPSK	135	138	21.73	22.45	21.92	23.00
100	PI/2 BPSK	270	0	21.66	22.45	21.97	23.00
100	QPSK	1	1	21.95	22.68	22.17	22.90
100	QPSK	1	137	21.81	22.50	22.01	22.90
100	QPSK	1	271	21.81	22.60	22.05	22.90
100	QPSK	135	0	21.66	22.45	21.96	22.90
100	QPSK	135	69	21.61	22.34	21.84	22.90
100	QPSK	135	138	21.80	22.48	21.93	22.90
100	QPSK	270	0	21.80	22.50	21.90	22.90
100	16QAM	1	1	21.87	22.63	22.06	23.00
100	64QAM	1	1	21.57	22.35	22.30	23.00
100	256QAM	1	1	19.69	20.40	20.15	21.00
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.09	22.73	22.27	23.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.99	22.68	22.17	23.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.03	22.67	22.22	23.00
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.09	22.69	22.23	23.00
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.02	22.70	22.28	23.00
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.12	22.74	22.18	23.00
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.12	22.70	22.24	23.00
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.03	22.73	22.26	23.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.08	22.76	22.20	23.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.02	22.75	22.20	23.00

【FR1 n41_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.13	22.78	22.32	23.00
100	PI/2 BPSK	1	137	21.61	22.35	21.79	23.00
100	PI/2 BPSK	1	271	21.89	22.65	22.14	23.00
100	PI/2 BPSK	135	0	21.85	22.61	22.07	23.00
100	PI/2 BPSK	135	69	22.01	22.67	21.78	23.00
100	PI/2 BPSK	135	138	21.73	22.45	21.92	23.00
100	PI/2 BPSK	270	0	21.66	22.45	21.97	23.00
100	QPSK	1	1	21.95	22.68	22.17	23.00
100	QPSK	1	137	21.81	22.50	22.01	23.00
100	QPSK	1	271	21.81	22.60	22.05	23.00
100	QPSK	135	0	21.66	22.45	21.96	22.90
100	QPSK	135	69	21.61	22.34	21.84	23.00
100	QPSK	135	138	21.80	22.48	21.93	22.90



FCC SAR TEST REPORT

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100	QPSK	270	0	21.80	22.50	21.90	22.90
100	16QAM	1	1	21.87	22.63	22.06	22.90
100	64QAM	1	1	21.57	22.35	22.30	23.00
100	256QAM	1	1	19.69	20.40	20.15	21.00
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	22.09	22.73	22.27	23.00
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	21.99	22.68	22.17	23.00
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	22.03	22.67	22.22	23.00
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	22.09	22.69	22.23	23.00
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	22.02	22.70	22.28	23.00
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	22.12	22.74	22.18	23.00
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	22.12	22.70	22.24	23.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	22.03	22.73	22.26	23.00
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	22.08	22.76	22.20	23.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	22.02	22.75	22.20	23.00

【FR1 n41_Ant 5_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.24	24.58	24.30	25.00

【FR1 n41_HPUE_Ant 5_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)



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80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500700	518598	536496	Tune-up limit



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Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.50	25.23	24.75	26.00
100	PI/2 BPSK	1	137	24.19	24.78	24.44	26.00
100	PI/2 BPSK	1	271	24.29	24.92	24.55	26.00
100	PI/2 BPSK	135	0	24.25	24.77	24.55	26.00
100	PI/2 BPSK	135	69	24.14	24.84	24.45	26.00
100	PI/2 BPSK	135	138	24.15	24.75	24.33	26.00
100	PI/2 BPSK	270	0	24.15	24.72	24.32	26.00
100	QPSK	1	1	24.37	25.00	24.57	26.00
100	QPSK	1	137	24.15	24.75	24.46	26.00
100	QPSK	1	271	24.33	24.90	24.52	26.00
100	QPSK	135	0	24.18	24.84	24.54	26.00
100	QPSK	135	69	24.09	24.75	24.46	26.00
100	QPSK	135	138	24.17	24.73	24.37	26.00
100	QPSK	270	0	24.27	24.86	24.49	26.00
100	16QAM	1	1	24.39	24.98	24.65	26.00
100	64QAM	1	1	24.21	24.56	24.25	26.00
100	256QAM	1	1	22.12	22.16	22.10	24.00
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.36	24.89	24.72	26.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.36	25.01	24.64	26.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.40	24.91	24.64	26.00
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.39	24.91	24.63	26.00
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.37	25.00	24.73	26.00
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.37	25.02	24.65	26.00
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.35	24.90	24.72	26.00
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.35	24.94	24.63	26.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.44	24.89	24.63	26.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.38	25.00	24.67	26.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.50	25.23	24.75	26.00
100	PI/2 BPSK	1	137	24.19	24.78	24.44	26.00
100	PI/2 BPSK	1	271	24.29	24.92	24.55	26.00
100	PI/2 BPSK	135	0	24.25	24.77	24.55	26.00
100	PI/2 BPSK	135	69	24.14	24.84	24.45	26.00



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100	PI/2 BPSK	135	138	24.15	24.75	24.33	26.00
100	PI/2 BPSK	270	0	24.15	24.72	24.32	26.00
100	QPSK	1	1	24.37	25.00	24.57	26.00
100	QPSK	1	137	24.15	24.75	24.46	26.00
100	QPSK	1	271	24.33	24.90	24.52	26.00
100	QPSK	135	0	24.18	24.84	24.54	25.90
100	QPSK	135	69	24.09	24.75	24.46	26.00
100	QPSK	135	138	24.17	24.73	24.37	25.90
100	QPSK	270	0	24.27	24.86	24.49	25.90
100	16QAM	1	1	24.39	24.98	24.65	25.90
100	64QAM	1	1	24.21	24.56	24.25	24.60
100	256QAM	1	1	21.63	22.16	21.84	22.60
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.36	24.89	24.72	26.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.36	25.01	24.64	26.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.40	24.91	24.64	26.00
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.39	24.91	24.63	26.00
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.37	25.00	24.73	26.00
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.37	25.02	24.65	26.00
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.35	24.90	24.72	26.00
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.35	24.94	24.63	26.00
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.44	24.89	24.63	26.00
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.38	25.00	24.67	26.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	



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70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.37	24.24	24.02	25.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.41	22.89	22.62	23.90
100	PI/2 BPSK	1	137	22.17	22.78	22.49	23.90
100	PI/2 BPSK	1	271	22.31	22.85	22.44	23.90
100	PI/2 BPSK	135	0	22.22	22.78	22.44	23.90
100	PI/2 BPSK	135	69	22.21	22.73	22.37	23.90
100	PI/2 BPSK	135	138	22.10	22.72	22.39	23.90
100	PI/2 BPSK	270	0	22.17	22.76	22.39	23.90
100	QPSK	1	1	22.33	22.82	22.46	23.90
100	QPSK	1	137	22.18	22.75	22.45	23.90
100	QPSK	1	271	22.35	22.87	22.58	23.90
100	QPSK	135	0	22.16	22.76	22.43	23.90
100	QPSK	135	69	22.23	22.75	22.41	23.90
100	QPSK	135	138	22.20	22.72	22.32	23.90
100	QPSK	270	0	22.12	22.74	22.34	23.90
100	16QAM	1	1	22.29	22.88	22.53	23.90
100	64QAM	1	1	20.78	21.37	21.00	22.50
100	256QAM	1	1	18.89	19.39	19.04	20.50
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	22.36	22.79	22.54	23.90
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	22.31	22.84	22.52	23.90
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	22.38	22.84	22.49	23.90
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	22.30	22.87	22.61	23.90
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	22.37	22.83	22.51	23.90
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)



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40	PI/2 BPSK	1	1	22.35	22.76	22.53	23.90
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	22.34	22.85	22.56	23.90
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	22.37	22.83	22.56	23.90
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	22.36	22.77	22.47	23.90
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	22.39	22.80	22.49	23.90

【FR1 n41_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.97	22.51	22.38	23.50
100	PI/2 BPSK	1	137	21.95	22.43	22.25	23.50
100	PI/2 BPSK	1	271	21.91	22.40	22.14	23.50
100	PI/2 BPSK	135	0	21.85	22.41	22.25	23.00
100	PI/2 BPSK	135	69	21.94	22.50	22.27	23.50
100	PI/2 BPSK	135	138	21.81	22.40	22.14	23.00
100	PI/2 BPSK	270	0	21.76	22.44	22.24	23.00
100	QPSK	1	1	21.90	22.40	22.23	23.50
100	QPSK	1	137	21.92	22.29	22.11	23.50
100	QPSK	1	271	21.93	22.29	22.11	23.50
100	QPSK	135	0	21.73	22.29	22.08	22.50
100	QPSK	135	69	21.94	22.36	22.12	23.50
100	QPSK	135	138	21.67	22.25	22.09	22.50
100	QPSK	270	0	21.71	22.30	22.05	22.50
100	16QAM	1	1	21.82	22.46	22.31	22.50
100	64QAM	1	1	21.39	21.40	21.32	21.40
100	256QAM	1	1	19.22	19.30	19.32	19.40
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	21.90	22.39	22.34	23.50
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	22.40	22.44	22.23	23.50
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	21.91	22.36	22.32	23.50
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	21.90	22.37	22.29	23.50
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	21.92	22.44	22.23	23.50
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	21.90	22.37	22.24	23.50
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	21.96	22.43	22.34	23.50
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	22.35	22.38	22.37	23.50
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	21.92	22.42	22.24	23.50
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	22.32	22.48	22.26	23.50

**【FR1 n41_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.85	22.71	22.57	24.10

【FR1 n41_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.85	22.71	22.57	24.10

【FR1 n41_HPUE_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.28	25.26	25.02	26.00

【FR1 n41_HPUE_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.00	25.46	25.29	26.00
100	PI/2 BPSK	1	137	24.86	25.33	25.11	26.00
100	PI/2 BPSK	1	271	24.88	25.40	25.15	26.00
100	PI/2 BPSK	135	0	24.86	25.40	25.14	26.00
100	PI/2 BPSK	135	69	24.90	25.42	25.17	26.00
100	PI/2 BPSK	135	138	24.85	25.39	25.15	26.00
100	PI/2 BPSK	270	0	24.83	25.34	25.04	26.00
100	QPSK	1	1	24.92	25.44	25.13	26.00
100	QPSK	1	137	24.86	25.40	25.09	26.00
100	QPSK	1	271	24.92	25.42	25.22	26.00
100	QPSK	135	0	24.38	24.97	24.77	26.00
100	QPSK	135	69	24.82	25.37	25.13	26.00
100	QPSK	135	138	24.46	24.95	24.64	26.00
100	QPSK	270	0	24.41	24.94	24.68	26.00
100	16QAM	1	1	24.48	25.00	24.79	26.00
100	64QAM	1	1	22.94	23.47	23.25	24.60
100	256QAM	1	1	20.96	21.48	21.24	22.60
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	25.38	25.14	26.00
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.96	25.38	25.22	26.00
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.95	25.43	25.28	26.00
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.89	25.37	25.21	26.00
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.91	25.38	25.20	26.00
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.96	25.38	25.17	26.00
Channel				502200	518598	534996	Tune-up limit



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Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	24.86	25.32	25.28	26.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	24.95	25.37	25.22	26.00
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	24.99	25.42	25.16	26.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	24.97	25.43	25.14	26.00

【FR1 n41_HPUE_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.89	25.44	25.15	26.00
100	PI/2 BPSK	1	137	24.72	25.33	25.02	26.00
100	PI/2 BPSK	1	271	24.84	25.40	25.00	26.00
100	PI/2 BPSK	135	0	24.67	25.31	24.99	26.00
100	PI/2 BPSK	135	69	24.72	25.29	24.97	26.00
100	PI/2 BPSK	135	138	24.73	25.32	24.97	26.00
100	PI/2 BPSK	270	0	24.66	25.29	24.96	26.00
100	QPSK	1	1	24.76	25.39	25.01	26.00
100	QPSK	1	137	24.64	25.30	24.89	26.00
100	QPSK	1	271	24.73	25.35	25.05	26.00
100	QPSK	135	0	24.69	25.28	24.88	26.00
100	QPSK	135	69	24.60	25.27	24.93	26.00
100	QPSK	135	138	24.73	25.35	25.02	26.00
100	QPSK	270	0	24.62	25.27	24.91	26.00
100	16QAM	1	1	24.57	25.18	24.87	26.00
100	64QAM	1	1	24.16	24.72	24.40	25.70
100	256QAM	1	1	22.10	22.13	21.83	23.70
Channel				508200	518598	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	24.85	25.34	25.05	26.00
Channel				507204	518598	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	24.83	25.41	25.06	26.00
Channel				506202	518598	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	PI/2 BPSK	1	1	24.80	25.31	25.14	26.00
Channel				505200	518598	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	PI/2 BPSK	1	1	24.87	25.30	25.04	26.00
Channel				504204	518598	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	PI/2 BPSK	1	1	24.87	25.41	25.11	26.00
Channel				503202	518598	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	PI/2 BPSK	1	1	24.82	25.31	25.00	26.00
Channel				502200	518598	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	PI/2 BPSK	1	1	24.84	25.29	25.14	26.00
Channel				501204	518598	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	24.82	25.41	25.06	26.00
Channel				500700	518598	536496	Tune-up limit
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)
15	PI/2 BPSK	1	1	24.76	25.42	25.08	26.00
Channel				500202	518598	537000	Tune-up limit
Frequency (MHz)				2501.01	2592.99	2685	(dBm)
10	PI/2 BPSK	1	1	24.77	25.36	25.00	26.00

**【FR1 n41_HPUE_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.28	25.26	25.02	26.00

【FR1 n41_HPUE_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.28	25.26	25.02	26.00

【FR1 n48_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.55	21.32	21.40	23.00

【FR1 n48_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.55	21.32	21.40	21.60
40	PI/2 BPSK	1	53	21.45	21.30	21.34	21.60
40	PI/2 BPSK	1	104	21.43	21.28	21.33	21.60
40	PI/2 BPSK	50	0	21.21	21.27	21.27	21.60
40	PI/2 BPSK	50	28	21.48	21.30	21.33	21.60
40	PI/2 BPSK	50	56	21.32	21.21	21.17	21.60
40	PI/2 BPSK	100	0	21.39	21.25	21.25	21.60
40	QPSK	1	1	21.50	21.30	21.26	21.60
40	QPSK	1	53	21.44	21.23	21.22	21.60
40	QPSK	1	104	21.43	21.26	21.23	21.60
40	QPSK	50	0	21.36	21.25	21.22	21.60
40	QPSK	50	28	21.43	21.27	21.33	21.60
40	QPSK	50	56	21.35	21.20	21.26	21.60
40	QPSK	100	0	21.36	21.24	21.22	21.60
40	16QAM	1	1	21.38	21.29	21.27	21.60
40	64QAM	1	1	20.50	20.47	20.50	20.50
40	256QAM	1	1	18.33	18.28	18.21	18.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.53	21.31	21.30	21.60
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.48	21.24	21.36	21.60
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.46	21.21	21.37	21.60

**【FR1 n48_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	18.60	18.66	18.62	20.00
40	PI/2 BPSK	1	53	18.51	18.63	18.57	20.00
40	PI/2 BPSK	1	104	18.28	18.46	18.36	20.00
40	PI/2 BPSK	50	0	18.43	18.58	18.49	20.00
40	PI/2 BPSK	50	28	18.49	18.62	18.51	20.00
40	PI/2 BPSK	50	56	18.42	18.57	18.42	20.00
40	PI/2 BPSK	100	0	18.50	18.62	18.55	20.00
40	QPSK	1	1	18.30	18.47	18.40	20.00
40	QPSK	1	53	18.40	18.59	18.54	20.00
40	QPSK	1	104	18.45	18.65	18.57	20.00
40	QPSK	50	0	18.49	18.60	18.53	20.00
40	QPSK	50	28	18.38	18.56	18.46	20.00
40	QPSK	50	56	18.41	18.56	18.42	20.00
40	QPSK	100	0	18.39	18.58	18.50	20.00
40	16QAM	1	1	18.22	18.40	18.29	20.00
40	64QAM	1	1	18.43	18.51	18.45	20.00
40	256QAM	1	1	16.98	17.12	16.97	18.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	18.56	18.55	18.52	20.00
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.56	18.64	18.60	20.00
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	18.53	18.57	18.56	20.00

【FR1 n48_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	18.60	18.66	18.62	20.00
40	PI/2 BPSK	1	53	18.51	18.63	18.57	20.00
40	PI/2 BPSK	1	104	18.28	18.46	18.36	20.00
40	PI/2 BPSK	50	0	18.43	18.58	18.49	20.00
40	PI/2 BPSK	50	28	18.49	18.62	18.51	20.00
40	PI/2 BPSK	50	56	18.42	18.57	18.42	20.00
40	PI/2 BPSK	100	0	18.50	18.62	18.55	20.00
40	QPSK	1	1	18.30	18.47	18.40	20.00
40	QPSK	1	53	18.40	18.59	18.54	20.00
40	QPSK	1	104	18.45	18.65	18.57	20.00
40	QPSK	50	0	18.49	18.60	18.53	20.00
40	QPSK	50	28	18.38	18.56	18.46	20.00
40	QPSK	50	56	18.41	18.56	18.42	20.00
40	QPSK	100	0	18.39	18.58	18.50	20.00
40	16QAM	1	1	18.22	18.40	18.29	20.00
40	64QAM	1	1	18.43	18.51	18.45	20.00
40	256QAM	1	1	16.98	17.12	16.97	18.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	18.56	18.55	18.52	20.00
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	18.56	18.64	18.60	20.00
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	18.53	18.57	18.56	20.00

**【FR1 n48_Ant 8_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.55	21.32	21.40	23.00

【FR1 n48_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.76	21.38	21.51	23.00

【FR1 n48_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.76	21.38	21.51	23.00

【FR1 n48_Ant 9_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.76	21.38	21.51	21.90
40	PI/2 BPSK	1	53	21.63	21.25	21.37	21.90
40	PI/2 BPSK	1	104	21.50	21.12	21.21	21.90
40	PI/2 BPSK	50	0	21.46	21.09	21.18	21.90
40	PI/2 BPSK	50	28	21.65	21.27	21.35	21.90
40	PI/2 BPSK	50	56	21.32	20.95	20.93	21.90
40	PI/2 BPSK	100	0	21.44	21.07	21.11	21.90
40	QPSK	1	1	21.56	21.18	21.18	21.90
40	QPSK	1	53	21.41	21.04	21.11	21.90
40	QPSK	1	104	21.52	21.14	21.17	21.90
40	QPSK	50	0	20.96	20.59	20.60	21.90
40	QPSK	50	28	21.62	21.24	21.30	21.90
40	QPSK	50	56	20.83	20.47	20.50	21.90
40	QPSK	100	0	20.90	20.54	20.53	21.90
40	16QAM	1	1	21.11	20.74	20.73	21.90
40	64QAM	1	1	19.58	19.24	19.22	20.50
40	256QAM	1	1	17.46	17.16	17.17	18.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.65	21.27	21.45	21.90
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.62	21.26	21.46	21.90
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.69	21.24	21.43	21.90

【FR1 n48_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.76	21.38	21.51	21.90
40	PI/2 BPSK	1	53	21.63	21.25	21.37	21.90
40	PI/2 BPSK	1	104	21.50	21.12	21.21	21.90
40	PI/2 BPSK	50	0	21.46	21.09	21.18	21.90
40	PI/2 BPSK	50	28	21.65	21.27	21.35	21.90
40	PI/2 BPSK	50	56	21.32	20.95	20.93	21.90
40	PI/2 BPSK	100	0	21.44	21.07	21.11	21.90
40	QPSK	1	1	21.56	21.18	21.18	21.90
40	QPSK	1	53	21.41	21.04	21.11	21.90
40	QPSK	1	104	21.52	21.14	21.17	21.90
40	QPSK	50	0	20.96	20.59	20.60	21.90
40	QPSK	50	28	21.62	21.24	21.30	21.90
40	QPSK	50	56	20.83	20.47	20.50	21.90
40	QPSK	100	0	20.90	20.54	20.53	21.90
40	16QAM	1	1	21.11	20.74	20.73	21.90
40	64QAM	1	1	19.58	19.24	19.22	20.50
40	256QAM	1	1	17.46	17.16	17.17	18.50
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.65	21.27	21.45	21.90
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.62	21.26	21.46	21.90
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.69	21.24	21.43	21.90

【FR1 n48_Ant 9_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.76	21.38	21.51	23.00

【FR1 n53_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				497700	497860	498000	
Frequency (MHz)				2488.5	2489.3	2490	
10	PI/2 BPSK	1	22	22.20	22.43	22.60	24.00

【FR1 n53_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				497700	497860	498000	
Frequency (MHz)				2488.5	2489.3	2490	
10	PI/2 BPSK	1	22	23.60	23.58	23.50	24.00

**【FR1 n53_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				497700	497860	498000	
Frequency (MHz)				2488.5	2489.3	2490	
10	PI/2 BPSK	1	22	22.28	23.10	22.61	24.00

【FR1 n53_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				497700	497860	498000	
Frequency (MHz)				2488.5	2489.3	2490	
10	PI/2 BPSK	1	22	23.60	23.58	23.50	24.00

【FR1 n53_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				497700	497860	498000	
Frequency (MHz)				2488.5	2489.3	2490	
10	PI/2 BPSK	1	22	23.60	23.58	23.50	24.00

【FR1 n66_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.50	24.66	24.82	25.00

【FR1 n66_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.50	24.66	24.82	25.00

【FR1 n66_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.50	24.66	24.82	25.00

【FR1 n66_Ant 1_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.50	24.66	24.82	25.00

**【FR1 n66_Ant 1_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.50	24.66	24.82	25.00

【FR1 n66_Ant 5_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.46	23.76	23.84	25.00

【FR1 n66_Ant 5_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.46	23.76	23.84	24.10

【FR1 n66_Ant 5_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.46	23.76	23.84	24.10

【FR1 n70_Ant 1_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.10		25.00

【FR1 n70_Ant 1_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.10		25.00

【FR1 n70_Ant 1_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.10		25.00

**【FR1 n70_Ant 1_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.10		25.00

【FR1 n70_Ant 1_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		0.00		25.00
15	PI/2 BPSK	1	40		0.00		25.00
15	PI/2 BPSK	1	77		0.00		25.00
15	PI/2 BPSK	36	0		0.00		24.50
15	PI/2 BPSK	36	22		0.00		25.00
15	PI/2 BPSK	36	43		0.00		24.50
15	PI/2 BPSK	75	0		0.00		24.50
15	QPSK	1	1		0.00		25.00
15	QPSK	1	40		0.00		25.00
15	QPSK	1	77		0.00		25.00
15	QPSK	36	0		0.00		24.00
15	QPSK	36	22		0.00		25.00
15	QPSK	36	43		0.00		24.00
15	QPSK	75	0		0.00		24.00
15	16QAM	1	1		0.00		24.00
15	64QAM	1	1		0.00		22.50
15	256QAM	1	1		0.00		20.50
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	0.00	0.00	0.00	25.00
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	0.00	0.00	0.00	25.00

【FR1 n71_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.91	24.01	24.29	25.50

【FR1 n71_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.91	24.01	24.29	25.50

【FR1 n71_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.91	24.01	24.29	25.50

**【FR1 n71_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.91	24.01	24.29	25.50

【FR1 n71_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.91	24.01	24.29	25.50

【FR1 n77 (27Q)_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.82		25.00

【FR1 n77/n78 (96)_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	24.26	24.36	24.53	25.00

【FR1 n77 (27Q)_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.82	24.77	24.84	25.00

【FR1 n77 (27Q)_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.82		25.00

【FR1 n77/n78 (96)_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	24.26	24.36	24.53	25.00

**【FR1 n77 (27O)_Ant 3_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.82	24.77	24.84	25.00

【FR1 n77 (27Q)_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.38		20.40

【FR1 n77/n78 (96)_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.19	19.33	19.42	20.40

【FR1 n77 (27O)_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.29	20.15	20.28	20.40

【FR1 n77 (27Q)_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.73		22.10

【FR1 n77/n78 (96)_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	21.71	21.76	21.93	22.10

【FR1 n77 (27O)_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.70	21.60	21.72	22.10

**【FR1 n77 (27Q)_Ant 3_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.73		22.10

【FR1 n77/n78 (96)_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	21.71	21.76	21.93	22.10

【FR1 n77 (27O)_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.55	21.59	21.81	22.10

【FR1 n77 (27Q)_HPUE_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 3_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

**【FR1 n77 (27Q)_HPUE_Ant 3_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 3_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_Ant 4_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.23		23.00

**【FR1 n77/n78 (96)_Ant 4_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	21.92	21.94	22.05	23.00

【FR1 n77 (27O)_Ant 4_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.73	22.43	22.53	23.00

【FR1 n77 (27Q)_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.23		23.00

【FR1 n77/n78 (96)_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	21.92	21.94	22.05	23.00

【FR1 n77 (27O)_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.73	22.43	22.53	23.00

【FR1 n77 (27Q)_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.34		18.90
100	PI/2 BPSK	1	137		18.17		18.90
100	PI/2 BPSK	1	271		18.25		18.90
100	PI/2 BPSK	135	0		18.16		18.90
100	PI/2 BPSK	135	69		18.23		18.90
100	PI/2 BPSK	135	138		18.21		18.90
100	PI/2 BPSK	270	0		18.23		18.90
100	QPSK	1	1		18.20		18.90
100	QPSK	1	137		18.18		18.90
100	QPSK	1	271		18.31		18.90
100	QPSK	135	0		18.14		18.90
100	QPSK	135	69		18.20		18.90
100	QPSK	135	138		18.19		18.90
100	QPSK	270	0		18.11		18.90



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100	16QAM	1	1		18.19		18.90
100	64QAM	1	1		18.20		18.90
100	256QAM	1	1		18.17		18.90
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	18.11	18.26	18.08	18.90
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	18.00	18.22	17.97	18.90
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	18.07	18.15	18.02	18.90
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	18.09	18.15	18.00	18.90
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	18.04	18.15	17.98	18.90
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	18.08	18.21	18.00	18.90
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	18.01	18.21	17.97	18.90
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	17.98	18.23	17.96	18.90
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	17.97	18.23	17.96	18.90
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	18.08	18.15	18.07	18.90
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	18.04	18.17	18.01	18.90

【FR1 n77/n78 (96)_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	17.99	18.18	17.98	18.90
100	PI/2 BPSK	1	137	17.80	18.06	17.81	18.90
100	PI/2 BPSK	1	271	17.82	18.10	17.88	18.90
100	PI/2 BPSK	135	0	17.66	17.95	17.61	18.90
100	PI/2 BPSK	135	69	17.75	18.01	17.70	18.90
100	PI/2 BPSK	135	138	17.76	18.00	17.74	18.90
100	PI/2 BPSK	270	0	17.68	17.98	17.68	18.90
100	QPSK	1	1	17.70	17.91	17.69	18.90
100	QPSK	1	137	17.64	17.89	17.63	18.90
100	QPSK	1	271	17.79	17.99	17.68	18.90
100	QPSK	135	0	17.76	17.96	17.64	18.90
100	QPSK	135	69	17.81	18.04	17.70	18.90
100	QPSK	135	138	17.67	17.99	17.70	18.90
100	QPSK	270	0	17.74	17.97	17.69	18.90
100	16QAM	1	1	17.80	18.08	17.86	18.90
100	64QAM	1	1	17.69	17.96	17.68	18.90
100	256QAM	1	1	17.85	18.11	17.87	18.90
Channel				639668	641666	643666	Tune-up limit
Frequency (MHz)				3595.02	3624.99	3654.99	(dBm)
90	PI/2 BPSK	1	1	17.90	18.09	17.89	18.90
Channel				639334	641666	644000	Tune-up limit
Frequency (MHz)				3590.01	3624.99	3660	(dBm)
80	PI/2 BPSK	1	1	17.94	18.11	17.94	18.90
Channel				639000	641666	644332	Tune-up limit
Frequency (MHz)				3585	3624.99	3664.98	(dBm)
70	PI/2 BPSK	1	1	17.95	18.12	17.86	18.90
Channel				638668	641666	644666	Tune-up limit
Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)
60	PI/2 BPSK	1	1	17.97	18.12	17.92	18.90
Channel				638334	641666	645000	Tune-up limit
Frequency (MHz)				3575.01	3624.99	3675	(dBm)



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50	PI/2 BPSK	1	1	17.97	18.09	17.85	18.90
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	17.91	18.13	17.89	18.90
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	17.92	18.12	17.87	18.90
Channel				637500	641666	645832	Tune-up limit (dBm)
Frequency (MHz)				3562.5	3624.99	3687.48	
25	PI/2 BPSK	1	1	17.85	18.14	17.87	18.90
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	17.94	18.07	17.85	18.90
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	17.96	18.06	17.86	18.90
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	17.85	18.07	17.83	18.90

【FR1 n77 (270)_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.04	18.15	17.83	18.90
100	PI/2 BPSK	1	137	17.87	18.02	17.64	18.90
100	PI/2 BPSK	1	271	17.70	17.95	17.49	18.90
100	PI/2 BPSK	135	0	17.85	18.00	17.56	18.90
100	PI/2 BPSK	135	69	17.94	18.10	17.65	18.90
100	PI/2 BPSK	135	138	17.71	17.93	17.49	18.90
100	PI/2 BPSK	270	0	17.76	17.95	17.51	18.90
100	QPSK	1	1	17.79	18.00	17.55	18.90
100	QPSK	1	137	17.75	17.93	17.57	18.90
100	QPSK	1	271	17.66	17.89	17.49	18.90
100	QPSK	135	0	17.80	18.01	17.58	18.90
100	QPSK	135	69	17.92	18.06	17.66	18.90
100	QPSK	135	138	17.63	17.88	17.42	18.90
100	QPSK	270	0	17.70	17.93	17.57	18.90
100	16QAM	1	1	17.94	18.07	17.68	18.90
100	64QAM	1	1	17.87	18.01	17.64	18.90
100	256QAM	1	1	17.82	18.06	17.72	18.90
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.97	18.07	17.68	18.90
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.89	18.14	17.78	18.90
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.91	18.10	17.81	18.90
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.90	18.11	17.71	18.90
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.01	18.06	17.70	18.90
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.89	18.11	17.71	18.90
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	17.98	18.12	17.71	18.90
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	17.99	18.05	17.81	18.90
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.99	18.03	17.70	18.90
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.02	18.06	17.76	18.90
Channel				647000	656000	665000	Tune-up limit



Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	18.01	18.06	17.69	18.90

【FR1 n77 (27Q)_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.26		20.90

【FR1 n77/n78 (96)_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	20.68	20.70	20.65	20.90

【FR1 n77 (27O)_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.66	20.52	20.47	20.90

【FR1 n77 (27Q)_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.61		20.90

【FR1 n77/n78 (96)_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.98	19.92	20.02	20.90

【FR1 n77 (27O)_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.66	20.52	20.47	20.90

**【FR1 n77 (27Q)_HPUE_Ant 4_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27Q)_HPUE_Ant 4_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

**【FR1 n77 (27Q)_HPUE_Ant 4_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27Q)_HPUE_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

**【FR1 n77 (27Q)_HPUE_Ant 4_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 4_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647500	656000	664500	Tune-up limit



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Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

【FR1 n77 (27Q)_HPUE_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	137	0.00	0.00	0.00	27.00
100	PI/2 BPSK	1	271	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	0	0.00	0.00	0.00	26.50
100	PI/2 BPSK	135	69	0.00	0.00	0.00	27.00
100	PI/2 BPSK	135	138	0.00	0.00	0.00	26.50
100	PI/2 BPSK	270	0	0.00	0.00	0.00	26.50
100	QPSK	1	1	0.00	0.00	0.00	27.00
100	QPSK	1	137	0.00	0.00	0.00	27.00
100	QPSK	1	271	0.00	0.00	0.00	27.00
100	QPSK	135	0	0.00	0.00	0.00	26.00
100	QPSK	135	69	0.00	0.00	0.00	27.00
100	QPSK	135	138	0.00	0.00	0.00	26.00
100	QPSK	270	0	0.00	0.00	0.00	26.00
100	16QAM	1	1	0.00	0.00	0.00	26.00
100	64QAM	1	1	0.00	0.00	0.00	24.50
100	256QAM	1	1	0.00	0.00	0.00	22.50
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)



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15	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	0.00	0.00	0.00	27.00

【FR1 n77 (27Q)_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.06		25.00

【FR1 n77/n78 (96)_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	21.38	21.45	21.53	22.00

【FR1 n77 (27Q)_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.06	24.84	24.97	25.00

【FR1 n77 (27Q)_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.28		20.30

【FR1 n77/n78 (96)_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.85	19.95	20.01	20.30

【FR1 n77 (27Q)_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.25	19.97	20.10	20.30

**【FR1 n77 (27Q)_Ant 8_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.50		20.20
100	PI/2 BPSK	1	137		19.30		20.20
100	PI/2 BPSK	1	271		19.41		20.20
100	PI/2 BPSK	135	0		19.31		20.20
100	PI/2 BPSK	135	69		19.39		20.20
100	PI/2 BPSK	135	138		19.27		20.20
100	PI/2 BPSK	270	0		19.28		20.20
100	QPSK	1	1		19.44		20.20
100	QPSK	1	137		19.36		20.20
100	QPSK	1	271		19.45		20.20
100	QPSK	135	0		19.40		20.20
100	QPSK	135	69		19.28		20.20
100	QPSK	135	138		19.26		20.20
100	QPSK	270	0		19.27		20.20
100	16QAM	1	1		19.48		20.20
100	64QAM	1	1		19.41		20.20
100	256QAM	1	1		19.28		20.20
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.36	19.48	19.28	20.20
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.29	19.42	19.24	20.20
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.28	19.45	19.22	20.20
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.23	19.45	19.17	20.20
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.30	19.40	19.16	20.20
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.34	19.40	19.19	20.20
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.24	19.34	19.13	20.20
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.23	19.47	19.21	20.20
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.34	19.40	19.24	20.20
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.30	19.47	19.18	20.20
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.32	19.45	19.14	20.20

【FR1 n77/n78 (96)_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.18	19.28	19.04	20.20
100	PI/2 BPSK	1	137	19.03	19.16	18.82	20.20
100	PI/2 BPSK	1	271	19.04	19.22	18.92	20.20
100	PI/2 BPSK	135	0	18.92	19.08	18.81	20.20
100	PI/2 BPSK	135	69	19.05	19.15	18.85	20.20
100	PI/2 BPSK	135	138	18.92	19.11	18.86	20.20
100	PI/2 BPSK	270	0	18.95	19.12	18.77	20.20
100	QPSK	1	1	18.94	19.15	18.90	20.20
100	QPSK	1	137	18.88	19.09	18.74	20.20
100	QPSK	1	271	19.05	19.18	18.95	20.20



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100	QPSK	135	0	18.89	19.05	18.79	20.20
100	QPSK	135	69	18.96	19.14	18.83	20.20
100	QPSK	135	138	18.88	19.08	18.79	20.20
100	QPSK	270	0	18.87	19.10	18.77	20.20
100	16QAM	1	1	18.81	18.91	18.63	20.20
100	64QAM	1	1	18.85	19.00	18.67	20.20
100	256QAM	1	1	19.04	19.14	18.80	20.20
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.07	19.22	18.92	20.20
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.13	19.13	18.95	20.20
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.10	19.15	18.96	20.20
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.14	19.17	18.96	20.20
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.06	19.17	18.99	20.20
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.06	19.16	18.96	20.20
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.13	19.18	18.98	20.20
Channel				637500	641666	645832	Tune-up limit (dBm)
Frequency (MHz)				3562.5	3624.99	3687.48	
25	PI/2 BPSK	1	1	19.17	19.25	19.03	20.20
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.14	19.25	18.93	20.20
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.13	19.21	18.95	20.20
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.05	19.17	18.91	20.20

【FR1 n77 (270)_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.23	19.50	19.28	20.20
100	PI/2 BPSK	1	137	19.05	19.37	19.10	20.20
100	PI/2 BPSK	1	271	18.99	19.33	19.04	20.20
100	PI/2 BPSK	135	0	19.01	19.35	19.07	20.20
100	PI/2 BPSK	135	69	19.06	19.41	19.06	20.20
100	PI/2 BPSK	135	138	18.97	19.34	19.07	20.20
100	PI/2 BPSK	270	0	19.05	19.40	19.12	20.20
100	QPSK	1	1	19.10	19.45	19.16	20.20
100	QPSK	1	137	18.89	19.28	18.93	20.20
100	QPSK	1	271	19.05	19.42	19.07	20.20
100	QPSK	135	0	19.01	19.33	19.04	20.20
100	QPSK	135	69	19.06	19.40	19.05	20.20
100	QPSK	135	138	18.93	19.31	18.99	20.20
100	QPSK	270	0	19.03	19.38	19.10	20.20
100	16QAM	1	1	18.96	19.32	18.99	20.20
100	64QAM	1	1	18.91	19.27	18.92	20.20
100	256QAM	1	1	18.85	19.21	18.84	20.20
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.14	19.46	19.25	20.20
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.14	19.38	19.15	20.20
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.18	19.45	19.22	20.20
Channel				648668	656000	663332	Tune-up limit



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Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	19.20	19.46	19.20	20.20
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	19.10	19.48	19.15	20.20
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	19.17	19.44	19.16	20.20
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	19.14	19.42	19.15	20.20
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	19.16	19.45	19.19	20.20
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	19.19	19.46	19.24	20.20
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	19.18	19.43	19.22	20.20
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	19.17	19.37	19.19	20.20

【FR1 n77 (27Q)_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.50		20.20
100	PI/2 BPSK	1	137		19.30		20.20
100	PI/2 BPSK	1	271		19.41		20.20
100	PI/2 BPSK	135	0		19.31		20.20
100	PI/2 BPSK	135	69		19.39		20.20
100	PI/2 BPSK	135	138		19.27		20.20
100	PI/2 BPSK	270	0		19.28		20.20
100	QPSK	1	1		19.44		20.20
100	QPSK	1	137		19.36		20.20
100	QPSK	1	271		19.45		20.20
100	QPSK	135	0		19.40		20.20
100	QPSK	135	69		19.28		20.20
100	QPSK	135	138		19.26		20.20
100	QPSK	270	0		19.27		20.20
100	16QAM	1	1		19.48		20.20
100	64QAM	1	1		19.41		20.20
100	256QAM	1	1		19.28		20.20
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	19.36	19.48	19.28	20.20
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	19.29	19.42	19.24	20.20
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	19.28	19.45	19.22	20.20
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	19.23	19.45	19.17	20.20
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	19.30	19.40	19.16	20.20
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	19.34	19.40	19.19	20.20
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	19.24	19.34	19.13	20.20
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	19.23	19.47	19.21	20.20
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	19.34	19.40	19.24	20.20



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Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.30	19.47	19.18	20.20
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.32	19.45	19.14	20.20

【FR1 n77/n78 (96)_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	Tune-up limit (dBm)
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.18	19.28	19.04	20.20
100	PI/2 BPSK	1	137	19.03	19.16	18.82	20.20
100	PI/2 BPSK	1	271	19.04	19.22	18.92	20.20
100	PI/2 BPSK	135	0	18.92	19.08	18.81	20.20
100	PI/2 BPSK	135	69	19.05	19.15	18.85	20.20
100	PI/2 BPSK	135	138	18.92	19.11	18.86	20.20
100	PI/2 BPSK	270	0	18.95	19.12	18.77	20.20
100	QPSK	1	1	18.94	19.15	18.90	20.20
100	QPSK	1	137	18.88	19.09	18.74	20.20
100	QPSK	1	271	19.05	19.18	18.95	20.20
100	QPSK	135	0	18.89	19.05	18.79	20.20
100	QPSK	135	69	18.96	19.14	18.83	20.20
100	QPSK	135	138	18.88	19.08	18.79	20.20
100	QPSK	270	0	18.87	19.10	18.77	20.20
100	16QAM	1	1	18.81	18.91	18.63	20.20
100	64QAM	1	1	18.85	19.00	18.67	20.20
100	256QAM	1	1	19.04	19.14	18.80	20.20
Channel				639668	641666	643666	Tune-up limit (dBm)
Frequency (MHz)				3595.02	3624.99	3654.99	
90	PI/2 BPSK	1	1	19.07	19.22	18.92	20.20
Channel				639334	641666	644000	Tune-up limit (dBm)
Frequency (MHz)				3590.01	3624.99	3660	
80	PI/2 BPSK	1	1	19.13	19.13	18.95	20.20
Channel				639000	641666	644332	Tune-up limit (dBm)
Frequency (MHz)				3585	3624.99	3664.98	
70	PI/2 BPSK	1	1	19.10	19.15	18.96	20.20
Channel				638668	641666	644666	Tune-up limit (dBm)
Frequency (MHz)				3580.02	3624.99	3669.99	
60	PI/2 BPSK	1	1	19.14	19.17	18.96	20.20
Channel				638334	641666	645000	Tune-up limit (dBm)
Frequency (MHz)				3575.01	3624.99	3675	
50	PI/2 BPSK	1	1	19.06	19.17	18.99	20.20
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	19.06	19.16	18.96	20.20
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	19.13	19.18	18.98	20.20
Channel				637500	641666	645832	Tune-up limit (dBm)
Frequency (MHz)				3562.5	3624.99	3687.48	
25	PI/2 BPSK	1	1	19.17	19.25	19.03	20.20
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	19.14	19.25	18.93	20.20
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	19.13	19.21	18.95	20.20
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	19.05	19.17	18.91	20.20

【FR1 n77 (270)_Ant 8_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.23	19.50	19.28	20.20



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100	PI/2 BPSK	1	137	19.05	19.37	19.10	20.20
100	PI/2 BPSK	1	271	18.99	19.33	19.04	20.20
100	PI/2 BPSK	135	0	19.01	19.35	19.07	20.20
100	PI/2 BPSK	135	69	19.06	19.41	19.06	20.20
100	PI/2 BPSK	135	138	18.97	19.34	19.07	20.20
100	PI/2 BPSK	270	0	19.05	19.40	19.12	20.20
100	QPSK	1	1	19.10	19.45	19.16	20.20
100	QPSK	1	137	18.89	19.28	18.93	20.20
100	QPSK	1	271	19.05	19.42	19.07	20.20
100	QPSK	135	0	19.01	19.33	19.04	20.20
100	QPSK	135	69	19.06	19.40	19.05	20.20
100	QPSK	135	138	18.93	19.31	18.99	20.20
100	QPSK	270	0	19.03	19.38	19.10	20.20
100	16QAM	1	1	18.96	19.32	18.99	20.20
100	64QAM	1	1	18.91	19.27	18.92	20.20
100	256QAM	1	1	18.85	19.21	18.84	20.20
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	19.14	19.46	19.25	20.20
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	19.14	19.38	19.15	20.20
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	19.18	19.45	19.22	20.20
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	19.20	19.46	19.20	20.20
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	19.10	19.48	19.15	20.20
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	19.17	19.44	19.16	20.20
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	19.14	19.42	19.15	20.20
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	19.16	19.45	19.19	20.20
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	19.19	19.46	19.24	20.20
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	19.18	19.43	19.22	20.20
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	19.17	19.37	19.19	20.20

【FR1 n77 (27Q)_Ant 8_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27Q)_HPUE_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

**【FR1 n77 (270)_HPUE_Ant 8_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (270)_HPUE_Ant 8_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.45		23.20
100	PI/2 BPSK	1	137		22.30		23.20
100	PI/2 BPSK	1	271		22.35		23.20
100	PI/2 BPSK	135	0		22.41		23.20
100	PI/2 BPSK	135	69		22.43		23.20
100	PI/2 BPSK	135	138		22.29		23.20
100	PI/2 BPSK	270	0		22.29		23.20
100	QPSK	1	1		22.39		23.20
100	QPSK	1	137		22.28		23.20
100	QPSK	1	271		22.32		23.20
100	QPSK	135	0		22.42		23.20
100	QPSK	135	69		22.39		23.20
100	QPSK	135	138		22.27		23.20
100	QPSK	270	0		22.28		23.20
100	16QAM	1	1		22.29		23.20
100	64QAM	1	1		22.20		23.20
100	256QAM	1	1		21.94		23.20
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.24	22.36	22.28	23.20
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.17	22.31	22.23	23.20
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.15	22.23	22.14	23.20
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.21	22.29	22.18	23.20
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.10	22.34	22.27	23.20
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.10	22.27	22.22	23.20
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.19	22.28	22.20	23.20
Channel				630834	633332	635832	Tune-up limit



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Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	22.16	22.27	22.14	23.20
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	22.15	22.22	22.20	23.20
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	22.20	22.33	22.15	23.20
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	22.09	22.26	22.20	23.20

【FR1 n77 (270)_HPUE_Ant 8_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.25	22.49	22.44	23.20
100	PI/2 BPSK	1	137	22.16	22.43	22.27	23.20
100	PI/2 BPSK	1	271	22.13	22.46	22.39	23.20
100	PI/2 BPSK	135	0	21.98	22.34	22.22	23.20
100	PI/2 BPSK	135	69	22.15	22.46	22.36	23.20
100	PI/2 BPSK	135	138	22.04	22.36	22.17	23.20
100	PI/2 BPSK	270	0	22.18	22.44	22.37	23.20
100	QPSK	1	1	22.06	22.42	22.35	23.20
100	QPSK	1	137	22.05	22.36	22.18	23.20
100	QPSK	1	271	22.05	22.40	22.29	23.20
100	QPSK	135	0	22.00	22.28	22.17	23.20
100	QPSK	135	69	22.05	22.43	22.26	23.20
100	QPSK	135	138	22.06	22.34	22.24	23.20
100	QPSK	270	0	22.06	22.40	22.23	23.20
100	16QAM	1	1	21.92	22.26	22.13	23.20
100	64QAM	1	1	21.88	22.14	22.04	23.20
100	256QAM	1	1	21.54	21.88	21.76	23.20
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	22.20	22.36	22.33	23.20
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	22.15	22.38	22.41	23.20
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	22.14	22.35	22.37	23.20
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	22.12	22.47	22.39	23.20
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	22.14	22.41	22.32	23.20
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	22.11	22.35	22.39	23.20
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	22.23	22.43	22.42	23.20
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	22.21	22.41	22.40	23.20
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	22.12	22.42	22.30	23.20
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	22.18	22.43	22.30	23.20
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	22.18	22.47	22.32	23.20

**【FR1 n77 (27Q)_HPUE_Ant 8_DSI 1】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.45		23.20
100	PI/2 BPSK	1	137		22.30		23.20
100	PI/2 BPSK	1	271		22.35		23.20
100	PI/2 BPSK	135	0		22.41		23.20
100	PI/2 BPSK	135	69		22.43		23.20
100	PI/2 BPSK	135	138		22.29		23.20
100	PI/2 BPSK	270	0		22.29		23.20
100	QPSK	1	1		22.39		23.20
100	QPSK	1	137		22.28		23.20
100	QPSK	1	271		22.32		23.20
100	QPSK	135	0		22.42		23.20
100	QPSK	135	69		22.39		23.20
100	QPSK	135	138		22.27		23.20
100	QPSK	270	0		22.28		23.20
100	16QAM	1	1		22.29		23.20
100	64QAM	1	1		22.20		23.20
100	256QAM	1	1		21.94		23.20
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.24	22.36	22.28	23.20
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.17	22.31	22.23	23.20
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.15	22.23	22.14	23.20
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.21	22.29	22.18	23.20
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.10	22.34	22.27	23.20
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.10	22.27	22.22	23.20
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.19	22.28	22.20	23.20
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.16	22.27	22.14	23.20
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.15	22.22	22.20	23.20
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.20	22.33	22.15	23.20
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.09	22.26	22.20	23.20

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.25	22.49	22.44	23.20
100	PI/2 BPSK	1	137	22.16	22.43	22.27	23.20
100	PI/2 BPSK	1	271	22.13	22.46	22.39	23.20
100	PI/2 BPSK	135	0	21.98	22.34	22.22	23.20
100	PI/2 BPSK	135	69	22.15	22.46	22.36	23.20
100	PI/2 BPSK	135	138	22.04	22.36	22.17	23.20
100	PI/2 BPSK	270	0	22.18	22.44	22.37	23.20
100	QPSK	1	1	22.06	22.42	22.35	23.20
100	QPSK	1	137	22.05	22.36	22.18	23.20
100	QPSK	1	271	22.05	22.40	22.29	23.20



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100	QPSK	135	0	22.00	22.28	22.17	23.20
100	QPSK	135	69	22.05	22.43	22.26	23.20
100	QPSK	135	138	22.06	22.34	22.24	23.20
100	QPSK	270	0	22.06	22.40	22.23	23.20
100	16QAM	1	1	21.92	22.26	22.13	23.20
100	64QAM	1	1	21.88	22.14	22.04	23.20
100	256QAM	1	1	21.54	21.88	21.76	23.20
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.20	22.36	22.33	23.20
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.15	22.38	22.41	23.20
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.14	22.35	22.37	23.20
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.12	22.47	22.39	23.20
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.14	22.41	22.32	23.20
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.11	22.35	22.39	23.20
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	22.23	22.43	22.42	23.20
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	22.21	22.41	22.40	23.20
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.12	22.42	22.30	23.20
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.18	22.43	22.30	23.20
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.18	22.47	22.32	23.20

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27Q)_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.67		24.00

【FR1 n77 (27Q)_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.06	24.15	24.05	25.00

**【FR1 n77 (27Q)_Ant 9_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.95		23.10
100	PI/2 BPSK	1	137		22.94		23.10
100	PI/2 BPSK	1	271		22.87		23.10
100	PI/2 BPSK	135	0		22.88		23.10
100	PI/2 BPSK	135	69		22.93		23.10
100	PI/2 BPSK	135	138		22.91		23.10
100	PI/2 BPSK	270	0		22.90		23.10
100	QPSK	1	1		22.90		23.10
100	QPSK	1	137		22.90		23.10
100	QPSK	1	271		22.84		23.10
100	QPSK	135	0		22.84		23.10
100	QPSK	135	69		22.90		23.10
100	QPSK	135	138		22.82		23.10
100	QPSK	270	0		22.80		23.10
100	16QAM	1	1		22.93		23.10
100	64QAM	1	1		21.51		21.60
100	256QAM	1	1		19.28		20.60
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.85	22.91	22.87	23.10
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.73	22.80	22.74	23.10
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.79	22.90	22.83	23.10
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.77	22.88	22.83	23.10
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.71	22.79	22.80	23.10
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.72	22.81	22.86	23.10
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.81	22.86	22.79	23.10
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.80	22.78	22.79	23.10
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.79	22.82	22.75	23.10
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.76	22.89	22.76	23.10
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.79	22.86	22.83	23.10

【FR1 n77/n78 (96)_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	20.36	20.37	20.33	22.00

**【FR1 n77 (270)_Ant 9_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.29	22.42	22.37	23.10
100	PI/2 BPSK	1	137	22.22	22.40	22.28	23.10
100	PI/2 BPSK	1	271	22.22	22.38	22.25	23.10
100	PI/2 BPSK	135	0	22.15	22.37	22.19	23.10
100	PI/2 BPSK	135	69	22.22	22.40	22.22	23.10
100	PI/2 BPSK	135	138	22.17	22.40	22.33	23.10
100	PI/2 BPSK	270	0	22.11	22.35	22.27	23.10
100	QPSK	1	1	22.19	22.40	22.23	23.10
100	QPSK	1	137	22.17	22.37	22.21	23.10
100	QPSK	1	271	22.15	22.34	22.22	23.10
100	QPSK	135	0	22.06	22.32	22.24	23.10
100	QPSK	135	69	22.23	22.38	22.18	23.10
100	QPSK	135	138	22.07	22.34	22.17	23.10
100	QPSK	270	0	22.15	22.32	22.20	23.10
100	16QAM	1	1	21.97	22.10	22.01	23.00
100	64QAM	1	1	21.30	21.56	21.39	22.70
100	256QAM	1	1	19.03	19.26	19.11	19.70
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.25	22.34	22.33	23.10
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.16	22.40	22.29	23.10
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.20	22.36	22.23	23.10
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.21	22.40	22.29	23.10
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.19	22.37	22.28	23.10
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.23	22.38	22.30	23.10
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	22.17	22.31	22.29	23.10
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	22.21	22.32	22.23	23.10
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.16	22.38	22.33	23.10
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.23	22.31	22.24	23.10
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.24	22.27	22.33	23.10

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.92		19.60
100	PI/2 BPSK	1	137		18.76		19.60
100	PI/2 BPSK	1	271		18.64		19.60
100	PI/2 BPSK	135	0		18.66		19.60
100	PI/2 BPSK	135	69		18.77		19.60
100	PI/2 BPSK	135	138		18.63		19.60
100	PI/2 BPSK	270	0		18.65		19.60
100	QPSK	1	1		18.87		19.60
100	QPSK	1	137		18.65		19.60
100	QPSK	1	271		18.63		19.60



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100	QPSK	135	0		18.63		19.60
100	QPSK	135	69		18.74		19.60
100	QPSK	135	138		18.61		19.60
100	QPSK	270	0		18.62		19.60
100	16QAM	1	1		18.61		19.60
100	64QAM	1	1		18.74		19.60
100	256QAM	1	1		18.59		19.60
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	18.74	18.87	18.82	19.60
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	18.60	18.83	18.77	19.60
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	18.68	18.73	18.76	19.60
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	18.73	18.80	18.76	19.60
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	18.64	18.84	18.76	19.60
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	18.72	18.77	18.78	19.60
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	18.68	18.84	18.71	19.60
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	18.70	18.80	18.76	19.60
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	18.72	18.84	18.75	19.60
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	18.66	18.75	18.70	19.60
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	18.68	18.78	18.69	19.60

【FR1 n77/n78 (96)_Ant 9_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	19.32	19.38	19.28	19.60
100	PI/2 BPSK	1	137	19.06	19.20	18.96	19.60
100	PI/2 BPSK	1	271	18.89	18.98	18.78	19.60
100	PI/2 BPSK	135	0	19.13	19.33	19.15	19.60
100	PI/2 BPSK	135	69	19.16	19.36	19.24	19.60
100	PI/2 BPSK	135	138	19.26	19.34	19.17	19.60
100	PI/2 BPSK	270	0	19.19	19.35	19.12	19.60
100	QPSK	1	1	19.07	19.24	19.00	19.60
100	QPSK	1	137	18.95	19.11	18.96	19.60
100	QPSK	1	271	18.81	18.92	18.76	19.60
100	QPSK	135	0	18.95	19.15	18.96	19.60
100	QPSK	135	69	19.14	19.24	19.00	19.60
100	QPSK	135	138	19.17	19.28	19.04	19.60
100	QPSK	270	0	19.21	19.31	19.12	19.60
100	16QAM	1	1	19.14	19.27	19.12	19.60
100	64QAM	1	1	18.87	18.96	18.71	19.50
100	256QAM	1	1	16.73	16.80	16.61	17.50
Channel				639668	641666	643666	Tune-up limit
Frequency (MHz)				3595.02	3624.99	3654.99	(dBm)
90	PI/2 BPSK	1	1	19.17	19.32	19.17	19.60
Channel				639334	641666	644000	Tune-up limit
Frequency (MHz)				3590.01	3624.99	3660	(dBm)
80	PI/2 BPSK	1	1	19.20	19.36	19.20	19.60
Channel				639000	641666	644332	Tune-up limit
Frequency (MHz)				3585	3624.99	3664.98	(dBm)
70	PI/2 BPSK	1	1	19.22	19.26	19.13	19.60
Channel				638668	641666	644666	Tune-up limit



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Frequency (MHz)				3580.02	3624.99	3669.99	(dBm)
60	PI/2 BPSK	1	1	19.19	19.34	19.19	19.60
Channel				638334	641666	645000	Tune-up limit
Frequency (MHz)				3575.01	3624.99	3675	(dBm)
50	PI/2 BPSK	1	1	19.29	19.25	19.25	19.60
Channel				638000	641666	645332	Tune-up limit
Frequency (MHz)				3570	3624.99	3679.98	(dBm)
40	PI/2 BPSK	1	1	19.25	19.34	19.15	19.60
Channel				637668	641666	645666	Tune-up limit
Frequency (MHz)				3565.02	3624.99	3684.99	(dBm)
30	PI/2 BPSK	1	1	19.19	19.33	19.26	19.60
Channel				637500	641666	645832	Tune-up limit
Frequency (MHz)				3562.5	3624.99	3687.48	(dBm)
25	PI/2 BPSK	1	1	19.26	19.31	19.16	19.60
Channel				637334	641666	646000	Tune-up limit
Frequency (MHz)				3560.01	3624.99	3690	(dBm)
20	PI/2 BPSK	1	1	19.23	19.24	19.27	19.60
Channel				637168	641666	646166	Tune-up limit
Frequency (MHz)				3557.52	3624.99	3692.49	(dBm)
15	PI/2 BPSK	1	1	19.22	19.33	19.23	19.60
Channel				637000	641666	646332	Tune-up limit
Frequency (MHz)				3555	3624.99	3694.98	(dBm)
10	PI/2 BPSK	1	1	19.31	19.35	19.24	19.60

【FR1 n77 (270)_Ant 9_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.40	18.46	18.45	19.60
100	PI/2 BPSK	1	137	18.29	18.39	18.27	19.60
100	PI/2 BPSK	1	271	18.15	18.27	18.15	19.60
100	PI/2 BPSK	135	0	18.24	18.39	18.24	19.60
100	PI/2 BPSK	135	69	18.24	18.40	18.38	19.60
100	PI/2 BPSK	135	138	18.26	18.35	18.27	19.60
100	PI/2 BPSK	270	0	18.29	18.41	18.32	19.60
100	QPSK	1	1	18.14	18.35	18.26	19.60
100	QPSK	1	137	18.20	18.34	18.21	19.60
100	QPSK	1	271	18.19	18.36	18.26	19.60
100	QPSK	135	0	18.24	18.41	18.26	19.60
100	QPSK	135	69	18.30	18.39	18.33	19.60
100	QPSK	135	138	18.13	18.34	18.27	19.60
100	QPSK	270	0	18.23	18.36	18.30	19.60
100	16QAM	1	1	18.17	18.27	18.11	19.60
100	64QAM	1	1	18.02	18.16	18.03	19.60
100	256QAM	1	1	17.96	18.04	17.95	19.60
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	18.28	18.39	18.37	19.60
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	18.32	18.40	18.36	19.60
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	18.25	18.33	18.38	19.60
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	18.27	18.37	18.40	19.60
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	18.27	18.41	18.40	19.60
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	18.38	18.40	18.41	19.60
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	18.25	18.44	18.35	19.60
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	18.33	18.42	18.38	19.60
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	18.33	18.32	18.31	19.60



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Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.26	18.39	18.35	19.60
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.38	18.38	18.39	19.60

【FR1 n77 (27Q)_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.89		22.90
100	PI/2 BPSK	1	137		22.82		22.90
100	PI/2 BPSK	1	271		22.89		22.90
100	PI/2 BPSK	135	0		22.86		22.90
100	PI/2 BPSK	135	69		22.84		22.90
100	PI/2 BPSK	135	138		22.82		22.90
100	PI/2 BPSK	270	0		22.85		22.90
100	QPSK	1	1		22.70		22.90
100	QPSK	1	137		22.78		22.90
100	QPSK	1	271		22.88		22.90
100	QPSK	135	0		22.84		22.90
100	QPSK	135	69		22.89		22.90
100	QPSK	135	138		22.78		22.90
100	QPSK	270	0		22.82		22.90
100	16QAM	1	1		22.76		22.90
100	64QAM	1	1		21.69		22.20
100	256QAM	1	1		19.53		20.20
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.83	22.88	22.76	22.90
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.69	22.85	22.62	22.90
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.69	22.85	22.75	22.90
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.76	22.80	22.65	22.90
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.73	22.78	22.70	22.90
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.72	22.87	22.63	22.90
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.79	22.90	22.62	22.90
30	PI/2 BPSK	1	39	0.00	0.00	0.00	22.90
30	PI/2 BPSK	1	76	0.00	0.00	0.00	22.90
30	PI/2 BPSK	36	0	0.00	0.00	0.00	22.90
30	PI/2 BPSK	36	18	0.00	0.00	0.00	22.90
30	PI/2 BPSK	36	39	0.00	0.00	0.00	22.90
30	PI/2 BPSK	75	0	0.00	0.00	0.00	22.90
30	QPSK	1	1	0.00	0.00	0.00	22.90
30	QPSK	1	39	0.00	0.00	0.00	22.90
30	QPSK	1	76	0.00	0.00	0.00	22.90
30	QPSK	36	0	0.00	0.00	0.00	22.90
30	QPSK	36	18	0.00	0.00	0.00	22.90
30	QPSK	36	39	0.00	0.00	0.00	22.90
30	QPSK	75	0	0.00	0.00	0.00	22.90
30	16QAM	1	1	0.00	0.00	0.00	22.90
30	64QAM	1	1	0.00	0.00	0.00	22.20
30	256QAM	1	1	0.00	0.00	0.00	20.20
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.70	22.77	22.64	22.90
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.76	22.77	22.64	22.90
Channel				630500	633332	636166	Tune-up limit



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Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	22.79	22.76	22.62	22.90
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	22.76	22.78	22.73	22.90

【FR1 n77/n78 (96)_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				640000	641666	643332	Tune-up limit (dBm)
Frequency (MHz)				3600	3624.99	3649.98	
100	PI/2 BPSK	1	1	20.24	20.26	20.33	

【FR1 n77 (270)_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.68	22.84	22.70	22.90
100	PI/2 BPSK	1	137	22.32	22.63	22.37	22.90
100	PI/2 BPSK	1	271	22.43	22.66	22.43	22.90
100	PI/2 BPSK	135	0	22.35	22.58	22.37	22.90
100	PI/2 BPSK	135	69	22.43	22.61	22.45	22.90
100	PI/2 BPSK	135	138	22.27	22.50	22.22	22.90
100	PI/2 BPSK	270	0	22.28	22.54	22.30	22.90
100	QPSK	1	1	22.31	22.58	22.33	22.90
100	QPSK	1	137	22.31	22.52	22.35	22.90
100	QPSK	1	271	22.41	22.62	22.37	22.90
100	QPSK	135	0	22.24	22.54	22.32	22.90
100	QPSK	135	69	22.35	22.56	22.30	22.90
100	QPSK	135	138	22.27	22.48	22.21	22.90
100	QPSK	270	0	22.23	22.49	22.34	22.90
100	16QAM	1	1	22.46	22.72	22.56	22.90
100	64QAM	1	1	20.59	20.88	20.70	22.50
100	256QAM	1	1	18.91	19.13	18.97	20.50
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.67	22.79	22.64	22.90
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.58	22.77	22.61	22.90
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.55	22.72	22.57	22.90
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.57	22.71	22.64	22.90
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.58	22.76	22.57	22.90
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.58	22.78	22.64	22.90
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3964.98	
30	PI/2 BPSK	1	1	22.59	22.75	22.66	22.90
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	
25	PI/2 BPSK	1	1	22.66	22.71	22.56	22.90
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.56	22.77	22.57	22.90
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.60	22.75	22.58	22.90
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.56	22.83	22.64	22.90

**【FR1 n77 (27Q)_Ant 9_DSI 4】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.67		24.00

【FR1 n77 (27O)_Ant 9_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 9_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

【FR1 n77 (27Q)_HPUE_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.91		26.00
100	PI/2 BPSK	1	137		25.81		26.00
100	PI/2 BPSK	1	271		25.86		26.00
100	PI/2 BPSK	135	0		25.00		25.50
100	PI/2 BPSK	135	69		25.87		26.00
100	PI/2 BPSK	135	138		24.88		25.50
100	PI/2 BPSK	270	0		24.87		25.50
100	QPSK	1	1		25.88		26.00
100	QPSK	1	137		25.87		26.00
100	QPSK	1	271		25.80		26.00
100	QPSK	135	0		24.97		25.00
100	QPSK	135	69		25.82		26.00
100	QPSK	135	138		24.82		25.00
100	QPSK	270	0		24.85		25.00
100	16QAM	1	1		24.75		25.00
100	64QAM	1	1		22.52		23.50
100	256QAM	1	1		20.54		21.50
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.86	25.90	25.87	26.00
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.83	25.75	25.72	26.00
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.77	25.83	25.74	26.00
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	



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60	PI/2 BPSK	1	1	25.75	25.76	25.80	26.00
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	25.73	25.87	25.80	26.00
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	25.72	25.86	25.81	26.00
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	25.85	25.81	25.73	26.00
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	25.76	25.85	25.76	26.00
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	25.79	25.78	25.85	26.00
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	25.78	25.87	25.74	26.00
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	25.73	25.79	25.74	26.00

【FR1 n77 (270)_HPUE_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.43	25.62	25.37	26.00
100	PI/2 BPSK	1	137	25.19	25.50	25.16	26.00
100	PI/2 BPSK	1	271	25.28	25.58	25.26	26.00
100	PI/2 BPSK	135	0	25.24	25.50	25.23	26.00
100	PI/2 BPSK	135	69	25.18	25.44	25.08	26.00
100	PI/2 BPSK	135	138	25.20	25.43	25.17	26.00
100	PI/2 BPSK	270	0	25.15	25.47	25.08	26.00
100	QPSK	1	1	25.29	25.54	25.21	26.00
100	QPSK	1	137	25.15	25.46	25.18	26.00
100	QPSK	1	271	25.33	25.60	25.34	26.00
100	QPSK	135	0	25.17	25.47	25.08	25.90
100	QPSK	135	69	25.16	25.46	25.17	26.00
100	QPSK	135	138	25.16	25.43	25.07	25.90
100	QPSK	270	0	25.16	25.45	25.19	25.90
100	16QAM	1	1	25.27	25.61	25.23	25.90
100	64QAM	1	1	23.67	23.92	23.64	24.60
100	256QAM	1	1	21.45	21.70	21.37	22.60
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	25.28	25.59	25.26	26.00
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	25.35	25.51	25.32	26.00
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	25.39	25.53	25.32	26.00
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	25.32	25.56	25.31	26.00
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	25.39	25.51	25.31	26.00
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	25.35	25.55	25.30	26.00
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	25.40	25.48	25.31	26.00
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	25.41	25.48	25.31	26.00
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	25.40	25.50	25.31	26.00
Channel				647168	656000	664832	Tune-up limit



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Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	25.31	25.52	25.28	26.00
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	25.29	25.48	25.27	26.00

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.47		22.60
100	PI/2 BPSK	1	137		22.28		22.60
100	PI/2 BPSK	1	271		22.14		22.60
100	PI/2 BPSK	135	0		22.16		22.60
100	PI/2 BPSK	135	69		22.29		22.60
100	PI/2 BPSK	135	138		22.13		22.60
100	PI/2 BPSK	270	0		22.15		22.60
100	QPSK	1	1		22.41		22.60
100	QPSK	1	137		22.15		22.60
100	QPSK	1	271		22.13		22.60
100	QPSK	135	0		22.13		22.60
100	QPSK	135	69		22.26		22.60
100	QPSK	135	138		22.10		22.60
100	QPSK	270	0		22.11		22.60
100	16QAM	1	1		22.10		22.60
100	64QAM	1	1		22.26		22.60
100	256QAM	1	1		22.08		22.60
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	22.37	22.43	22.28	22.60
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	22.25	22.32	22.26	22.60
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	22.28	22.41	22.22	22.60
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	22.31	22.42	22.17	22.60
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	22.27	22.35	22.16	22.60
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	22.30	22.42	22.25	22.60
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	22.29	22.40	22.22	22.60
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	22.25	22.38	22.15	22.60
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	22.34	22.29	22.17	22.60
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	22.32	22.42	22.19	22.60
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	22.30	22.31	22.22	22.60

【FR1 n77 (27O)_HPUE_Ant 9_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.47	21.55	21.48	22.60
100	PI/2 BPSK	1	137	21.30	21.47	21.33	22.60



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100	PI/2 BPSK	1	271	21.16	21.33	21.14	22.60
100	PI/2 BPSK	135	0	21.30	21.47	21.39	22.60
100	PI/2 BPSK	135	69	21.25	21.48	21.28	22.60
100	PI/2 BPSK	135	138	21.21	21.42	21.20	22.60
100	PI/2 BPSK	270	0	21.37	21.49	21.29	22.60
100	QPSK	1	1	21.30	21.42	21.34	22.60
100	QPSK	1	137	21.30	21.41	21.23	22.60
100	QPSK	1	271	21.32	21.43	21.26	22.60
100	QPSK	135	0	21.28	21.49	21.32	22.60
100	QPSK	135	69	21.29	21.47	21.29	22.60
100	QPSK	135	138	21.30	21.41	21.25	22.60
100	QPSK	270	0	21.33	21.43	21.23	22.60
100	16QAM	1	1	21.14	21.33	21.11	22.60
100	64QAM	1	1	21.02	21.20	21.06	22.60
100	256QAM	1	1	20.92	21.06	20.85	22.60
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	21.33	21.45	21.40	22.60
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	21.44	21.53	21.46	22.60
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	21.36	21.45	21.41	22.60
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	21.40	21.41	21.38	22.60
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	21.43	21.45	21.34	22.60
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	21.42	21.50	21.35	22.60
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	21.43	21.46	21.39	22.60
Channel				647500	656000	664500	Tune-up limit
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	21.42	21.51	21.40	22.60
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	21.46	21.53	21.39	22.60
Channel				647168	656000	664832	Tune-up limit
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	21.44	21.49	21.45	22.60
Channel				647000	656000	665000	Tune-up limit
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	21.38	21.45	21.40	22.60

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.51		25.90
100	PI/2 BPSK	1	137		25.35		25.90
100	PI/2 BPSK	1	271		25.41		25.90
100	PI/2 BPSK	135	0		25.37		25.90
100	PI/2 BPSK	135	69		25.48		25.90
100	PI/2 BPSK	135	138		25.34		25.90
100	PI/2 BPSK	270	0		25.36		25.90
100	QPSK	1	1		25.31		25.90
100	QPSK	1	137		25.40		25.90
100	QPSK	1	271		25.47		25.90
100	QPSK	135	0		24.97		25.90
100	QPSK	135	69		25.34		25.90
100	QPSK	135	138		24.83		25.90
100	QPSK	270	0		24.86		25.90
100	16QAM	1	1		25.10		25.90
100	64QAM	1	1		23.70		25.20
100	256QAM	1	1		21.69		23.20
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)



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90	PI/2 BPSK	1	1	25.37	25.48	25.41	25.90
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	25.25	25.46	25.38	25.90
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	25.24	25.46	25.38	25.90
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	25.32	25.40	25.38	25.90
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	25.22	25.33	25.30	25.90
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	25.30	25.47	25.28	25.90
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	25.31	25.39	25.26	25.90
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	25.34	25.36	25.32	25.90
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	25.35	25.34	25.33	25.90
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	25.29	25.42	25.30	25.90
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	25.34	25.43	25.36	25.90

【FR1 n77 (270)_HPUE_Ant 9_DSI 1】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.55	25.62	25.56	27.00
100	PI/2 BPSK	1	137	25.21	25.38	25.28	27.00
100	PI/2 BPSK	1	271	25.32	25.42	25.33	27.00
100	PI/2 BPSK	135	0	25.20	25.33	25.14	27.00
100	PI/2 BPSK	135	69	25.16	25.36	25.17	27.00
100	PI/2 BPSK	135	138	25.11	25.24	25.14	27.00
100	PI/2 BPSK	270	0	25.11	25.28	25.15	27.00
100	QPSK	1	1	25.25	25.33	25.21	27.00
100	QPSK	1	137	25.05	25.26	25.19	27.00
100	QPSK	1	271	25.19	25.37	25.22	27.00
100	QPSK	135	0	25.14	25.28	25.19	27.00
100	QPSK	135	69	25.16	25.31	25.14	27.00
100	QPSK	135	138	25.04	25.22	25.09	27.00
100	QPSK	270	0	25.04	25.23	25.04	27.00
100	16QAM	1	1	25.34	25.49	25.33	27.00
100	64QAM	1	1	24.62	24.62	24.60	26.60
100	256QAM	1	1	22.62	22.64	22.62	24.60
Channel				649668	656000	662332	Tune-up limit
Frequency (MHz)				3745.02	3840	3934.98	(dBm)
90	PI/2 BPSK	1	1	25.51	25.56	25.51	27.00
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	PI/2 BPSK	1	1	25.40	25.55	25.50	27.00
Channel				649000	656000	663000	Tune-up limit
Frequency (MHz)				3735	3840	3945	(dBm)
70	PI/2 BPSK	1	1	25.50	25.61	25.50	27.00
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	PI/2 BPSK	1	1	25.48	25.54	25.41	27.00
Channel				648334	656000	663666	Tune-up limit
Frequency (MHz)				3725.01	3840	3954.99	(dBm)
50	PI/2 BPSK	1	1	25.43	25.48	25.48	27.00
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	PI/2 BPSK	1	1	25.54	25.58	25.54	27.00
Channel				647668	656000	664332	Tune-up limit



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Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	PI/2 BPSK	1	1	25.49	25.54	25.50	27.00
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840	3967.5	(dBm)
25	PI/2 BPSK	1	1	25.40	25.52	25.47	27.00
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	PI/2 BPSK	1	1	25.47	25.48	25.52	27.00
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	25.53	25.48	25.52	27.00
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	25.50	25.50	25.42	27.00

【FR1 n77 (27Q)_HPUE_Ant 9_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633000	633332	633666	
Frequency (MHz)				3495	3499.98	3504.99	

【FR1 n77 (27O)_HPUE_Ant 9_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.85		25.00

【FR1 n78 (27O)_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.98		25.00

【FR1 n78 (27Q)_HPUE_Ant 8_DSI 0】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.81		26.00

**【FR1 n78 (27O)_HPUE_Ant 8_DSI 0】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.99		26.00

【FR1 n78 (27Q)_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.72		23.10
100	PI/2 BPSK	1	137		22.71		23.10
100	PI/2 BPSK	1	271		22.63		23.10
100	PI/2 BPSK	135	0		22.55		23.10
100	PI/2 BPSK	135	69		22.71		23.10
100	PI/2 BPSK	135	138		22.52		23.10
100	PI/2 BPSK	270	0		22.57		23.10
100	QPSK	1	1		22.64		23.10
100	QPSK	1	137		22.56		23.10
100	QPSK	1	271		22.55		23.10
100	QPSK	135	0		22.54		23.10
100	QPSK	135	69		22.60		23.10
100	QPSK	135	138		22.60		23.10
100	QPSK	270	0		22.52		23.10
100	16QAM	1	1		22.65		23.10
100	64QAM	1	1		21.23		21.70
100	256QAM	1	1		19.04		19.70
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	22.61	22.68	22.53	23.10
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	22.46	22.66	22.51	23.10
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	22.56	22.57	22.47	23.10
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	22.55	22.62	22.50	23.10
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	22.57	22.55	22.40	23.10
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	22.52	22.64	22.47	23.10
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	22.47	22.59	22.40	23.10
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	22.58	22.55	22.51	23.10
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	22.47	22.59	22.52	23.10
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	22.57	22.56	22.40	23.10
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	22.53	22.56	22.39	23.10

**【FR1 n78 (27O)_Ant 9_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.04		23.10
100	PI/2 BPSK	1	137		21.91		23.10
100	PI/2 BPSK	1	271		21.86		23.10
100	PI/2 BPSK	135	0		21.95		23.10
100	PI/2 BPSK	135	69		21.91		23.10
100	PI/2 BPSK	135	138		21.91		23.10
100	PI/2 BPSK	270	0		21.83		23.10
100	QPSK	1	1		21.91		23.10
100	QPSK	1	137		21.81		23.10
100	QPSK	1	271		21.92		23.10
100	QPSK	135	0		21.81		23.10
100	QPSK	135	69		21.96		23.10
100	QPSK	135	138		21.78		23.10
100	QPSK	270	0		21.92		23.10
100	16QAM	1	1		21.75		23.10
100	64QAM	1	1		20.90		21.70
100	256QAM	1	1		18.78		19.70
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.86	21.98	21.92	23.10
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.78	21.93	21.91	23.10
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.79	21.87	21.87	23.10
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.84	21.93	21.84	23.10
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.72	21.84	21.78	23.10
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.74	21.91	21.85	23.10
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750	3784.98	
30	PI/2 BPSK	1	1	21.84	21.92	21.88	23.10
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750	3787.5	
25	PI/2 BPSK	1	1	21.77	21.90	21.88	23.10
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.84	21.94	21.83	23.10
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.76	21.94	21.77	23.10
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.72	21.96	21.84	23.10

【FR1 n78 (27Q)_HPUE_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.87		26.00
100	PI/2 BPSK	1	137		25.77		26.00
100	PI/2 BPSK	1	271		25.82		26.00
100	PI/2 BPSK	135	0		24.96		26.00
100	PI/2 BPSK	135	69		25.83		26.00
100	PI/2 BPSK	135	138		24.84		26.00
100	PI/2 BPSK	270	0		24.83		26.00
100	QPSK	1	1		25.84		26.00
100	QPSK	1	137		25.83		26.00
100	QPSK	1	271		25.76		26.00



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100	QPSK	135	0		24.93		26.00
100	QPSK	135	69		25.78		26.00
100	QPSK	135	138		24.78		26.00
100	QPSK	270	0		24.81		26.00
100	16QAM	1	1		25.01		26.00
100	64QAM	1	1		23.48		24.60
100	256QAM	1	1		21.51		22.60
Channel				633000	633332	633666	Tune-up limit
Frequency (MHz)				3495	3499.98	3504.99	(dBm)
90	PI/2 BPSK	1	1	25.77	25.83	25.69	26.00
Channel				632668	633332	634000	Tune-up limit
Frequency (MHz)				3490.02	3499.98	3510	(dBm)
80	PI/2 BPSK	1	1	25.63	25.69	25.55	26.00
Channel				632334	633332	634332	Tune-up limit
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)
70	PI/2 BPSK	1	1	25.62	25.77	25.60	26.00
Channel				632000	633332	634666	Tune-up limit
Frequency (MHz)				3480	3499.98	3519.99	(dBm)
60	PI/2 BPSK	1	1	25.74	25.77	25.59	26.00
Channel				631668	633332	635000	Tune-up limit
Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	25.70	25.79	25.56	26.00
Channel				631334	633332	635332	Tune-up limit
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	25.64	25.76	25.62	26.00
Channel				631000	633332	635666	Tune-up limit
Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	25.71	25.79	25.55	26.00
Channel				630834	633332	635832	Tune-up limit
Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	25.65	25.81	25.55	26.00
Channel				630668	633332	636000	Tune-up limit
Frequency (MHz)				3460.02	3499.98	3540	(dBm)
20	PI/2 BPSK	1	1	25.68	25.78	25.61	26.00
Channel				630500	633332	636166	Tune-up limit
Frequency (MHz)				3457.5	3499.98	3542.49	(dBm)
15	PI/2 BPSK	1	1	25.71	25.76	25.61	26.00
Channel				630334	633332	636332	Tune-up limit
Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	25.66	25.75	25.55	26.00

【FR1 n78 (270)_HPUE_Ant 9_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.22		26.00
100	PI/2 BPSK	1	137		24.80		26.00
100	PI/2 BPSK	1	271		25.03		26.00
100	PI/2 BPSK	135	0		24.85		25.50
100	PI/2 BPSK	135	69		24.92		26.00
100	PI/2 BPSK	135	138		24.97		25.50
100	PI/2 BPSK	270	0		24.93		25.50
100	QPSK	1	1		24.97		26.00
100	QPSK	1	137		24.95		26.00
100	QPSK	1	271		24.94		26.00
100	QPSK	135	0		24.90		26.00
100	QPSK	135	69		24.91		26.00
100	QPSK	135	138		24.95		26.00
100	QPSK	270	0		24.94		26.00
100	16QAM	1	1		25.06		26.00
100	64QAM	1	1		23.40		24.60
100	256QAM	1	1		21.15		22.60
Channel				649668	650000	650332	Tune-up limit
Frequency (MHz)				3745.02	3750	3754.98	(dBm)
90	PI/2 BPSK	1	1	25.11	25.18	25.07	26.00
Channel				649334	650000	650666	Tune-up limit
Frequency (MHz)				3740.01	3750	3759.99	(dBm)
80	PI/2 BPSK	1	1	25.03	25.09	25.05	26.00
Channel				649000	650000	651000	Tune-up limit
Frequency (MHz)				3735	3750	3765	(dBm)
70	PI/2 BPSK	1	1	25.06	25.05	25.04	26.00
Channel				648668	650000	651332	Tune-up limit



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Frequency (MHz)				3730.02	3750	3769.98	(dBm)
60	PI/2 BPSK	1	1	24.99	25.14	25.03	26.00
Channel				648334	650000	651666	Tune-up limit
Frequency (MHz)				3725.01	3750	3774.99	(dBm)
50	PI/2 BPSK	1	1	25.05	25.16	25.00	26.00
Channel				648000	650000	652000	Tune-up limit
Frequency (MHz)				3720	3750	3780	(dBm)
40	PI/2 BPSK	1	1	25.01	25.05	25.00	26.00
Channel				647668	650000	652332	Tune-up limit
Frequency (MHz)				3715.02	3750	3784.98	(dBm)
30	PI/2 BPSK	1	1	25.10	25.05	24.93	26.00
Channel				647500	650000	652500	Tune-up limit
Frequency (MHz)				3712.5	3750	3787.5	(dBm)
25	PI/2 BPSK	1	1	25.09	25.03	25.03	26.00
Channel				647334	650000	652666	Tune-up limit
Frequency (MHz)				3710.01	3750	3789.99	(dBm)
20	PI/2 BPSK	1	1	25.02	25.13	25.04	26.00
Channel				647168	650000	652832	Tune-up limit
Frequency (MHz)				3707.52	3750	3792.48	(dBm)
15	PI/2 BPSK	1	1	25.08	25.16	24.96	26.00
Channel				647000	650000	653000	Tune-up limit
Frequency (MHz)				3705	3750	3795	(dBm)
10	PI/2 BPSK	1	1	25.03	25.06	25.04	26.00

【RFID_DSI 0】

Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
902.75	26.64	27.00	100.00
914.75	26.79	27.00	100.00
927.25	26.54	27.00	100.00

【RFID_DSI 3】

Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
902.75	24.45	25.00	100.00
914.75	24.63	25.00	100.00
927.25	24.50	25.00	100.00

【RFID_DSI 1】

Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
902.75	24.45	25.00	100.00
914.75	24.63	25.00	100.00
927.25	24.50	25.00	100.00

【RFID_DSI 4】

Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
902.75	24.45	25.00	100.00
914.75	24.63	25.00	100.00
927.25	24.50	25.00	100.00

<DSI1>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	20.80	22.10	21.70	22.10	24.28	25.10	86.05
		6	2437	21.10	22.10	21.70	22.10	24.42	25.10	
		11	2462	20.80	22.10	21.70	22.10	24.28	25.10	

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT40 MCS0	38	5190	16.80	17.00	16.60	17.00	19.71	20.00	85.88
		46	5230	16.90	17.00	16.70	17.00	19.81	20.00	
	802.11ac-VHT80 MCS0	42	5210	17.10	17.50	17.10	17.50	20.11	20.50	85.75

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	19.00	20.00	19.50	20.00	22.27	23.00	85.81
		56	5280	19.70	20.00	19.70	20.00	22.71	23.00	
		60	5300	19.60	20.00	19.70	20.00	22.66	23.00	
		64	5320	19.00	19.50	19.40	19.50	22.21	22.50	
	802.11ac-VHT20 MCS0	52	5260	19.60	20.00	19.10	20.00	22.87	23.00	85.92
		56	5280	19.20	20.00	19.30	20.00	22.26	23.00	
		60	5300	19.20	19.50	19.30	19.50	22.26	22.50	
		64	5320	17.50	18.00	17.90	18.00	20.71	21.00	

5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	19.40	19.50	19.40	19.50	22.41	22.50	85.81
		116	5580	19.30	20.00	19.70	20.00	22.51	23.00	
		124	5620	19.50	20.50	20.40	20.50	22.98	23.50	
		132	5660	19.70	20.50	20.40	20.50	23.07	23.50	
		140	5700	19.90	20.50	20.40	20.50	23.17	23.50	
		144	5720	19.70	20.50	20.20	20.50	22.97	23.50	

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	19.80	20.80	20.50	20.80	23.17	23.80	85.81
		157	5785	19.80	20.80	20.40	20.80	23.12	23.80	
		165	5825	19.30	20.50	20.20	20.50	22.78	23.50	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
WiFi 6E	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11be-EHT320 MCS0	31	6105	13.70	14.00	13.70	14.00	16.71	17.00	85.59
		63	6265	13.85	14.00	13.65	14.00	16.76	17.00	
		95	6425	13.95	14.00	13.25	14.00	16.62	17.00	
		127	6585	13.90	14.00	13.70	14.00	16.81	17.00	
		159	6745	14.00	14.00	13.90	14.00	16.96	17.00	
		191	6905	13.90	14.00	13.90	14.00	16.91	17.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
Bluetooth	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	BR / EDR 1Mbps	0	2402	14.76	16.00	15.99	16.00	18.43	19.00	76.93
		39	2441	15.56	16.00	15.90	16.00	18.74	19.00	
		78	2480	14.07	15.00	14.97	15.00	17.55	18.00	

<DSI2>

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	21.30	23.00	22.60	23.00	25.01	26.00	86.05
		6	2437	21.70	23.00	22.70	23.00	25.24	26.00	
		11	2462	21.30	23.00	22.60	23.00	25.01	26.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT40 MCS0	38	5190	16.80	17.00	16.60	17.00	19.71	20.00	85.88
		46	5230	16.90	17.00	16.70	17.00	19.81	20.00	
	802.11ac-VHT80 MCS0	42	5210	17.10	17.50	17.10	17.50	20.11	20.50	85.75

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	19.00	19.80	19.50	19.80	22.27	22.80	85.81
		56	5280	19.70	19.80	19.70	19.80	22.71	22.80	
		60	5300	19.60	19.80	19.70	19.80	22.66	22.80	
		64	5320	19.00	19.50	19.40	19.50	22.21	22.50	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11ac-VHT80 MCS0	106	5530	16.80	17.50	17.30	17.50	20.07	20.50	85.75
		122	5610	16.70	17.50	17.30	17.50	20.02	20.50	
		138	5690	19.20	19.80	19.70	19.80	22.47	22.80	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11n-HT40 MCS0	151	5755	19.30	19.80	19.70	19.80	22.51	22.80	85.88
		159	5795	19.20	19.80	19.70	19.80	22.47	22.80	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
WiFi 6E	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11be-EHT320 MCS0	31	6105	16.60	17.00	16.60	17.00	19.61	20.00	85.59
		63	6265	16.65	17.00	16.45	17.00	19.56	20.00	
		95	6425	16.65	17.00	16.25	17.00	19.46	20.00	
		127	6585	17.00	17.00	16.60	17.00	19.81	20.00	
		159	6745	17.00	17.00	16.70	17.00	19.86	20.00	
		191	6905	16.90	17.00	16.70	17.00	19.81	20.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
Bluetooth	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	BR / EDR 1Mbps	0	2402	14.76	16.00	15.99	16.00	18.43	19.00	76.93
		39	2441	15.56	16.00	15.90	16.00	18.74	19.00	
		78	2480	14.07	16.00	14.97	16.00	17.55	19.00	

<DSI3>

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	20.30	21.00	20.60	21.00	23.46	24.00	86.05
		6	2437	20.60	21.00	20.90	21.00	23.76	24.00	
		11	2462	20.40	21.00	20.70	21.00	23.56	24.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.00	19.00	18.90	19.00	21.96	22.00	85.81
		40	5200	18.90	19.20	19.00	19.20	21.96	22.20	
		44	5220	19.00	19.20	18.80	19.20	21.91	22.20	
		48	5240	19.00	19.20	19.00	19.20	22.01	22.20	
	802.11n-HT40 MCS0	38	5190	16.80	17.00	16.60	17.00	19.71	20.00	85.88
		46	5230	16.90	17.00	16.70	17.00	19.81	20.00	
	802.11ac-VHT80 MCS0	42	5210	17.10	17.50	17.10	17.50	20.11	20.50	85.75

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11n-HT40 MCS0	151	5755	18.80	19.20	19.20	19.20	22.01	22.20	85.88
		159	5795	18.70	19.20	19.20	19.20	21.97	22.20	
	802.11ac-VHT80 MCS0	155	5775	18.50	19.20	18.90	19.20	21.71	22.20	85.75

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11be-EHT320 MCS0	31	6105	8.80	9.00	8.90	9.00	11.86	12.00	85.59
		63	6265	8.85	9.00	8.55	9.00	11.71	12.00	
		95	6425	9.35	9.50	8.75	9.50	12.07	12.50	
		127	6585	9.20	9.50	8.60	9.50	11.92	12.50	
		159	6745	10.70	11.00	10.30	11.00	13.51	14.00	
		191	6905	10.90	11.00	10.60	11.00	13.76	14.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
Bluetooth	BR / EDR 1Mbps	0	2402	14.76	16.00	15.99	16.00	18.43	19.00	76.93
		39	2441	15.56	16.00	15.90	16.00	18.74	19.00	
		78	2480	14.07	15.00	14.97	15.00	17.55	18.00	

<DSI4>

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	21.30	23.00	22.60	23.00	25.01	26.00	86.05
		6	2437	21.70	23.00	22.70	23.00	25.24	26.00	
		11	2462	21.30	23.00	22.60	23.00	25.01	26.00	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11ac-VHT20 MCS0	52	5260	19.60	20.50	20.10	20.50	22.87	23.50	85.92
		56	5280	20.20	20.50	20.30	20.50	23.26	23.50	
		60	5300	19.20	19.50	19.30	19.50	22.26	22.50	
		64	5320	17.50	18.00	17.90	18.00	20.71	21.00	

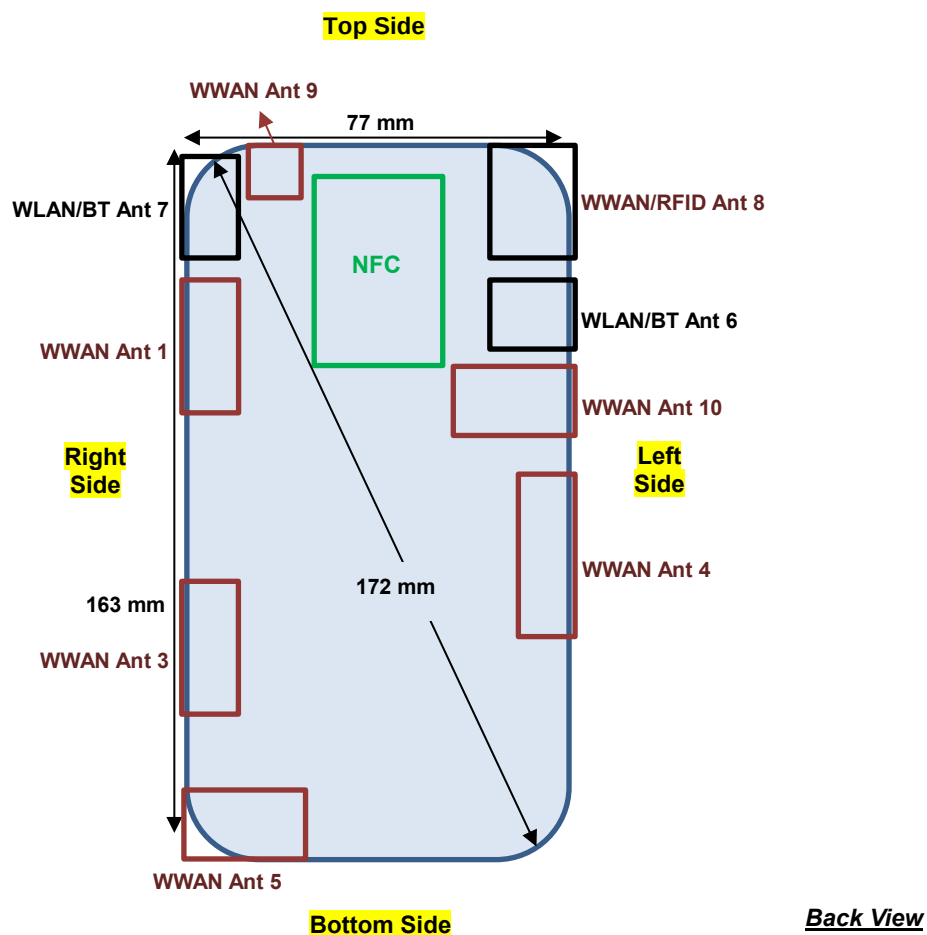
				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	19.40	19.50	19.40	19.50	22.41	22.50	85.81
		116	5580	19.30	20.00	19.70	20.00	22.51	23.00	
		124	5620	19.50	20.50	20.40	20.50	22.98	23.50	
		132	5660	19.70	20.50	20.40	20.50	23.07	23.50	
		144	5720	19.70	20.50	20.20	20.50	22.97	23.50	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	20.80	21.50	21.40	21.50	24.12	24.50	85.81
		157	5785	20.90	21.50	21.40	21.50	24.17	24.50	
		165	5825	19.30	20.50	20.20	20.50	22.78	23.50	

				Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
WiFi 6E	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11be-EHT320 MCS0	31	6105	13.70	14.00	13.70	14.00	16.71	17.00	85.59
		63	6265	13.85	14.00	13.65	14.00	16.76	17.00	
		95	6425	13.95	14.00	13.25	14.00	16.62	17.00	
		127	6585	13.90	14.00	13.70	14.00	16.81	17.00	
		159	6745	14.00	14.00	13.90	14.00	16.96	17.00	
		191	6905	13.90	14.00	13.90	14.00	16.91	17.00	

Bluetooth	Mode	Channel	Frequency (MHz)	Ant 6+7 (6)		Ant 6+7 (7)		Ant 6+7		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		0	2402	14.76	16.00	15.99	16.00	18.43	19.00	76.93
		39	2441	15.56	16.00	15.90	16.00	18.74	19.00	
		78	2480	14.07	15.00	14.97	15.00	17.55	18.00	

13. Antenna Location



14. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
3. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
4. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g product specific SAR is required.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1 -g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold, for this device only bottom side SAR for WWAN transmitter scaled to maximum output power is higher than 1.2W/kg of GSM1900, UMTS B2, LTE B2/4/7/25/30/66 and 5G NR n2/7/25/30/38/41/48/66/77/78, therefore product specific SAR is necessary.
6. For 5.3GHz / 5.5GHz / 5.8GHz / 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
 - g. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required for hotspot and body-worn condition when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. For determining the SAR scaling factor in MIMO mode, if the RF hot spots are spatially separated, the scaling factors are individually derived from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined based on the worst number observed among all transmit chains.
6. During SAR testing, the WLAN transmit signal was continuously monitored using a spectrum analyzer to ensure continuous and stable signal output throughout the measurement.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method.
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report section 15
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

NFC Note:

1. NFC functions primarily under extremity exposure scenarios in hand-held use. Accordingly, standalone 10-gram extremity SAR testing is conducted in active transmission mode, using a 100% duty cycle and a 0 mm separation distance.
2. Extremity SAR measurements for NFC are performed on all applicable edges and surfaces of the device.



14.1 Head SAR

< GSM SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 8	DSI 2	251	848.8	28.80	29.00	1.047	-0.05	1.06	1.110
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 8	DSI 2	128	824.2	28.84	29.00	1.038	0.03	0.942	0.978
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 8	DSI 2	189	836.4	28.13	29.00	1.222	-0.08	0.835	1.020
02	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI 2	661	1880	28.64	29.00	1.086	0.04	0.386	0.419

< WCDMA SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
03	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	24.95	25.00	1.012	-0.01	0.64	0.648
04	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1312	1712.4	24.53	25.00	1.114	0.03	0.996	1.110
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1413	1732.6	24.53	25.00	1.114	0.08	0.987	1.100
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1513	1752.6	24.53	25.00	1.114	0.01	0.933	1.039
05	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 8	DSI 2	4182	836.4	23.60	25.00	1.380	-0.12	0.867	1.196
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 8	DSI 2	4132	826.4	23.63	25.00	1.371	0.08	0.831	1.139
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 8	DSI 2	4233	846.6	23.56	25.00	1.393	0.01	0.821	1.144

< LTE SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
06	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	21100	2535	22.68	24.20	1.419			0.15	0.877	1.244
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	21100	2535	22.68	24.20	1.419			0.06	0.869	1.233
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	20850	2510	22.25	24.20	1.567			0.03	0.785	1.230
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	21350	2560	22.63	24.20	1.435			-0.08	0.836	1.200
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	21100	2535	21.60	23.20	1.445			-0.08	0.712	1.029
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	20850	2510	21.50	23.20	1.479			0.08	0.663	0.981
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	21350	2560	21.58	23.20	1.452			0.01	0.679	0.986
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2	21100	2535	21.62	23.20	1.439			0.1	0.698	1.004
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	21100	2535	22.68	24.20	1.419			-0.18	0.599	0.850
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	20850	2510	22.25	24.20	1.567			0.03	0.558	0.874
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	21350	2560	22.63	24.20	1.435			-0.08	0.571	0.819
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	21100	2535	21.60	23.20	1.445			0.1	0.489	0.707
	LTE Band 7	20M	QPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2	21100	2535	21.62	23.20	1.439			-0.08	0.533	0.767
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	DSI 2	21100	2535	22.68	24.20	1.419			0.12	0.623	0.884
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	DSI 2	20850	2510	22.25	24.20	1.567			0.1	0.58	0.909
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 8	DSI 2	21350	2560	22.63	24.20	1.435			-0.18	0.594	0.852
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	21100	2535	21.60	23.20	1.445			0.08	0.511	0.738
	LTE Band 7	20M	QPSK	100	0	Left Cheek	0mm	Ant 8	DSI 2	21100	2535	21.62	23.20	1.439			0.1	0.522	0.751
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 8	DSI 2	21100	2535	22.68	24.20	1.419			-0.17	0.53	0.752
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	21100	2535	21.60	23.20	1.445			0.03	0.499	0.721
	LTE Band 7C	20M+20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	21100+21298	2535	22.61	23.20	1.146			0.02	0.845	0.968
	LTE Band 7C	20M+20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	20850+21048	2510	22.57	23.20	1.156			0.11	0.833	0.963
	LTE Band 7C	20M+20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	21350+21152	2560	22.49	23.20	1.178			-0.05	0.811	0.955
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 2	20850	2510	24.58	25.00	1.102			0.04	0.119	0.131
07	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	23095	707.5	23.61	25.00	1.377			0.01	0.697	0.960



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08	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	23230	782	23.86	25.00	1.300			-0.13	0.785	1.021
09	LTE Band 14	10M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	23330	793	23.69	25.00	1.352			0.04	0.71	0.960
10	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	26140	1860	24.40	25.00	1.148			0.13	0.603	0.692
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 2	26340	1880	24.20	25.00	1.202			0.06	0.148	0.178
11	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	26865	831.5	24.58	25.00	1.102			0.02	0.944	1.040
12	LTE Band 30	10M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	27710	2310	23.45	24.50	1.274			0.01	0.581	0.740
	LTE Band 30	10M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 2	27710	2310	24.03	24.50	1.114			-0.02	0.059	0.066
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	132572	1770	24.38	25.00	1.153			-0.08	0.833	0.960
13	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	132072	1720	24.07	25.00	1.239			0.01	0.893	1.106
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	24.27	25.00	1.183			0.1	0.863	1.021
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 2	132572	1770	23.96	25.00	1.271			0.07	0.093	0.118
14	LTE Band 71	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	133297	680.5	23.94	25.50	1.432			-0.03	0.542	0.776
15	LTE Band 106	3M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	134322	899	24.36	25.00	1.159			0.01	0.248	0.287
16	LTE Band 70	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	133047	1702.5	24.42	25.00	1.143			-0.15	0.793	0.906
17	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	23.82	25.00	1.312	62.9	1.006	0.14	0.607	0.801
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	39750	2506	24.01	25.00	1.256	62.9	1.006	-0.18	0.524	0.662
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	40620	2593	23.79	25.00	1.321	62.9	1.006	0.1	0.509	0.676
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	41055	2636.5	23.79	25.00	1.321	62.9	1.006	0.12	0.274	0.364
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 8	DSI 2	41490	2680	24.12	25.00	1.225	62.9	1.006	0.08	0.258	0.318
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 2	41055	2636.5	23.45	24.00	1.135	62.9	1.006	0	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	56640	3690	22.64	23.00	1.086	62.9	1.006	0.09	0.709	0.775
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	55340	3560	22.51	23.00	1.119	62.9	1.006	-0.17	0.915	1.030
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	55830	3609	22.34	23.00	1.164	62.9	1.006	-0.03	0.889	1.041
18	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	55990	3625	22.26	23.00	1.186	62.9	1.006	0	0.887	1.058
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	56150	3641	22.32	23.00	1.169	62.9	1.006	0.14	0.87	1.023
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	55990	3625	22.26	23.00	1.186	62.9	1.006	0.02	0.313	0.373
19	LTE Band 53	10M	QPSK	1	0	Right Cheek	0mm	Ant 8	DSI 2	60198	2489.3	23.07	25.00	1.560	62.9	1.006	0	0.428	0.672



< 5G NR SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
20	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	507000	2535	24.37	25.00	1.156	-0.06	1.02	1.179
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 5	DSI 2	507000	2535	24.33	25.00	1.167	0.1	0.085	0.099
21	FR1 n12	15M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	141500	707.5	24.28	25.00	1.180	-0.06	0.771	0.910
22	FR1 n13	10M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	156400	782	24.04	25.00	1.247	-0.1	0.834	1.040
23	FR1 n14	10M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	158600	793	23.93	25.00	1.279	-0.09	0.981	1.255
24	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	24.26	25.00	1.186	-0.12	0.643	0.763
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI 2	376500	1882.5	24.64	25.00	1.086	0.05	0.149	0.162
25	FR1 n26	20M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	166300	831.5	24.76	25.00	1.057	0.04	1.06	1.120
26	FR1 n30	10M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	462000	2310	24.15	24.50	1.084	0	0.59	0.640
	FR1 n30	10M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI 2	462000	2310	24.16	24.50	1.081	-0.03	0.091	0.098
27	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	24.66	25.00	1.081	-0.05	1.06	1.146
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI 2	349000	1745	23.76	25.00	1.330	0.14	0.093	0.124
28	FR1 n70	15M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI 2	340500	1702.5	24.10	25.00	1.230	-0.17	0.71	0.873
29	FR1 n71	20M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	136100	680.5	24.01	25.50	1.409	-0.01	0.563	0.793
30	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.89	23.90	1.262	-0.08	0.965	1.218
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.73	23.90	1.309	0.18	0.623	0.816
	FR1 n41	100M	BPSK	270	0	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.76	23.90	1.300	0.14	0.58	0.754
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	22.89	23.90	1.262	-0.17	0.717	0.905
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	22.73	23.90	1.309	0.17	0.466	0.610
	FR1 n41	100M	BPSK	270	0	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	22.76	23.90	1.300	-0.1	0.609	0.792
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.89	23.90	1.262	-0.05	0.761	0.960
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.73	23.90	1.309	0.01	0.52	0.681
	FR1 n41	100M	BPSK	270	0	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	22.76	23.90	1.300	-0.03	0.589	0.766
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	518598	2592.99	22.89	23.90	1.262	0.1	0.588	0.742
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	DSI 2	518598	2592.99	22.73	23.90	1.309	-0.17	0.419	0.548
	FR1 n41_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	25.46	26.00	1.132	0.04	0.829	0.938
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	DSI 2	518598	2592.99	24.58	25.00	1.102	-0.07	0.056	0.062
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	518598	2592.99	23.27	24.00	1.183	-0.07	0.212	0.251
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	22.77	23.00	1.054	0.04	0.297	0.313
31	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	638000	3570	21.55	21.60	1.012	0.01	1.26	1.275
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	638000	3570	21.55	21.60	1.012	0.03	1.19	1.204
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	641666	3624.99	21.32	21.60	1.067	-0.01	1.12	1.195
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	645332	3679.98	21.40	21.60	1.047	-0.08	1.1	1.152
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	638000	3570	21.48	21.60	1.028	0.05	1.17	1.203
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	641666	3624.99	21.30	21.60	1.072	0.06	1.11	1.190
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 8	DSI 2	645332	3679.98	21.33	21.60	1.064	-0.09	1.08	1.149
	FR1 n48	40M	BPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2	638000	3570	21.39	21.60	1.050	-0.08	1.15	1.208
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	638000	3570	21.55	21.60	1.012	0.13	1.06	1.073
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	641666	3624.99	21.32	21.60	1.067	0.12	1.08	1.152
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	645332	3679.98	21.40	21.60	1.047	0.03	1.02	1.068
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	638000	3570	21.48	21.60	1.028	0.18	1.04	1.069
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	641666	3624.99	21.30	21.60	1.072	0.16	1.03	1.104
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 8	DSI 2	645332	3679.98	21.33	21.60	1.064	-0.1	0.965	1.027
	FR1 n48	40M	BPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2	638000	3570	21.39	21.60	1.050	0.07	1.02	1.071
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	638000	3570	21.55	21.60	1.012	0.18	0.828	0.838
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	21.32	21.60	1.067	-0.1	0.763	0.814
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	645332	3679.98	21.40	21.60	1.047	0.01	0.745	0.780
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	DSI 2	638000	3570	21.48	21.60	1.028	-0.15	0.881	0.906
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	21.30	21.60	1.072	0.19	0.747	0.801
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 8	DSI 2	645332	3679.98	21.33	21.60	1.064	0.07	0.684	0.728
	FR1 n48	40M	BPSK	100	0	Left Cheek	0mm	Ant 8	DSI 2	638000	3570	21.39	21.60	1.050	-0.18	0.939	0.986



FCC SAR TEST REPORT

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	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	638000	3570	21.55	21.60	1.012	0.03	0.734	0.743
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	641666	3624.99	21.32	21.60	1.067	-0.15	0.724	0.773
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	645332	3679.98	21.40	21.60	1.047	-0.15	0.744	0.779
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	638000	3570	21.48	21.60	1.028	0.11	0.792	0.814
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	641666	3624.99	21.30	21.60	1.072	-0.08	0.707	0.758
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 8	DSI 2	645332	3679.98	21.33	21.60	1.064	-0.17	0.687	0.731
	FR1 n48	40M	BPSK	100	0	Left Tilted	0mm	Ant 8	DSI 2	638000	3570	21.39	21.60	1.050	-0.08	0.755	0.793
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	638000	3570	21.76	23.00	1.330	-0.04	0.517	0.688
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	21.38	23.00	1.452	0.09	0.67	0.973
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	645332	3679.98	21.51	23.00	1.409	-0.08	0.457	0.644
32	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	633332	3499.98	19.28	20.30	1.265	0.01	0.992	1.255
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	DSI 2	633332	3499.98	22.95	23.10	1.035	0.12	0.519	0.537
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 9	DSI 2	633332	3499.98	22.93	23.10	1.040	0.08	0.444	0.462
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 9	DSI 2	633332	3499.98	22.95	23.10	1.035	-0.17	0.493	0.510
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 9	DSI 2	633332	3499.98	22.93	23.10	1.040	-0.03	0.447	0.465
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	633332	3499.98	22.95	23.10	1.035	0.08	0.972	1.006
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 9	DSI 2	633332	3499.98	22.93	23.10	1.040	0.14	0.692	0.720
	FR1 n77 (27Q)	100M	BPSK	270	0	Left Cheek	0mm	Ant 9	DSI 2	633332	3499.98	22.90	23.10	1.047	0.11	0.929	0.973
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 9	DSI 2	633332	3499.98	22.95	23.10	1.035	-0.05	0.567	0.587
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 9	DSI 2	633332	3499.98	22.93	23.10	1.040	0.18	0.463	0.482
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	633332	3499.98	25.91	26.00	1.021	0.14	0.755	0.771
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	633332	3499.98	23.82	25.00	1.312	0.03	0.441	0.579
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	633332	3499.98	21.23	23.00	1.503	0.01	0.691	1.039
	FR1 n77/n78 (96)	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	641666	3624.99	19.95	20.30	1.084	0.05	0.872	0.945
	FR1 n77/n78 (96)	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	20.37	22.00	1.455	-0.15	0.45	0.655
	FR1 n77/n78 (96)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	641666	3624.99	24.36	25.00	1.159	-0.03	0.181	0.210
	FR1 n77/n78 (96)	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	641666	3624.99	21.94	23.00	1.276	-0.1	0.652	0.832
	FR1 n77 (27O)	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	19.97	20.30	1.079	0.09	0.646	0.697
	FR1 n77 (27O)	100M	BPSK	1	1	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	22.42	23.10	1.169	-0.17	0.296	0.346
	FR1 n77 (27O)	100M	BPSK	135	69	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	22.40	23.10	1.175	0.17	0.272	0.320
	FR1 n77 (27O)	100M	BPSK	1	1	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	22.42	23.10	1.169	-0.05	0.321	0.375
	FR1 n77 (27O)	100M	BPSK	135	69	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	22.40	23.10	1.175	0.01	0.306	0.360
	FR1 n77 (27O)	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	22.42	23.10	1.169	0	0.348	0.407
	FR1 n77 (27O)	100M	BPSK	135	69	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	22.40	23.10	1.175	0.1	0.306	0.360
	FR1 n77 (27O)	100M	BPSK	1	1	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	22.42	23.10	1.169	-0.17	0.33	0.386
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	22.40	23.10	1.175	0.04	0.265	0.311
	FR1 n77 (27O)_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	25.62	26.00	1.091	-0.01	0.311	0.339
	FR1 n77 (27O)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	24.77	25.00	1.054	-0.02	0.147	0.155
	FR1 n77 (27O)	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI 2	656000	3840	22.43	23.00	1.140	-0.01	0.479	0.546
33	FR1 n53	10M	BPSK	1	22	Right Cheek	0mm	Ant 8	DSI 2	497860	2489.3	23.58	24.00	1.102	-0.04	0.79	0.871

< WLAN SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
34	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant MIMO(6)	DSI 2	11	2462	21.30	23.00	1.479	86.1	1.162	0.13	0.688	1.182
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant MIMO(6)	DSI 2	1	2412	21.30	23.00	1.479	86.1	1.162	-0.13	0.662	1.138
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant MIMO(6)	DSI 2	6	2437	21.70	23.00	1.349	86.1	1.162	0.06	0.641	1.005
35	5.3GHz WLAN	802.11a 6Mbps	Left Cheek	0mm	Ant MIMO(6)	DSI 2	56	5280	19.70	19.80	1.023	85.8	1.165	0.09	0.627	0.747
36	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant MIMO(6)	DSI 2	138	5690	19.20	19.80	1.148	85.8	1.166	0.08	0.702	0.940
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant MIMO(6)	DSI 2	106	5530	16.80	17.50	1.175	85.8	1.166	-0.03	0.654	0.896
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant MIMO(6)	DSI 2	122	5610	16.70	17.50	1.202	85.8	1.166	-0.03	0.664	0.931
37	5.8GHz WLAN	802.11n-HT40 MCS0	Left Cheek	0mm	Ant MIMO(7)	DSI 2	151	5755	19.70	19.80	1.023	85.9	1.164	-0.11	0.642	0.764
	5.8GHz WLAN	802.11n-HT40 MCS0	Left Cheek	0mm	Ant MIMO(7)	DSI 2	159	5795	19.70	19.80	1.023	85.9	1.164	0.08	0.595	0.709
38	6GHz WLAN	802.11be-EHT320 MCS0	Left Cheek	0mm	Ant MIMO(6)	DSI 2	63	6265	16.65	17.00	1.084	85.6	1.168	-0.19	0.403	0.510

< Bluetooth SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
39	Bluetooth	1Mbps	Left Cheek	0mm	Ant MIMO(7)	DSI 2	39	2441	15.90	16.00	1.023	76.9	1.083	-0.01	0.234	0.259

14.2 Hotspot SAR
< GSM SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
40	GSM850	GPRS 3 Tx slots	Back	10mm	Ant 8	DSI 3	189	836.4	29.55	30.00	1.109	-0.06	1.16	1.286
41	GSM1900	GPRS 3 Tx slots	Right Edge	10mm	Ant 1	DSI 3	810	1909.8	26.58	27.30	1.180	-0.04	0.536	0.632

< WCDMA SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
42	WCDMA II	RMC 12.2Kbps	Right Edge	10mm	Ant 1	DSI 3	9400	1880	21.35	22.40	1.274	-0.12	0.626	0.798
43	WCDMA IV	RMC 12.2Kbps	Right Edge	10mm	Ant 1	DSI 3	1513	1752.6	24.68	25.00	1.076	-0.01	0.951	1.023
	WCDMA IV	RMC 12.2Kbps	Right Edge	10mm	Ant 1	DSI 3	1312	1712.4	24.53	25.00	1.114	-0.07	0.915	1.019
	WCDMA IV	RMC 12.2Kbps	Right Edge	10mm	Ant 1	DSI 3	1413	1732.6	24.50	25.00	1.122	0.05	0.851	0.955
44	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 8	DSI 3	4132	826.4	23.63	25.00	1.371	0	0.429	0.588



< LTE SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 8	DSI 3	21100	2535	22.68	23.40	1.180			-0.11	0.339	0.400
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 8	DSI 3	21100	2535	21.60	22.40	1.202			-0.12	0.272	0.327
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	21100	2535	22.68	23.40	1.180			0.03	0.936	1.104
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	20850	2510	22.25	23.40	1.303			-0.16	0.746	0.972
45	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	21350	2560	22.63	23.40	1.194			0.06	1.04	1.242
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	21350	2560	22.63	23.40	1.194			-0.09	1.03	1.230
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 3	21100	2535	21.60	22.40	1.202			-0.02	0.725	0.871
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 3	20850	2510	21.50	22.40	1.230			0.05	0.578	0.711
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 3	21350	2560	21.58	22.40	1.208			0.05	0.805	0.972
	LTE Band 7	20M	QPSK	100	0	Back	10mm	Ant 8	DSI 3	21100	2535	21.62	22.40	1.197			0.15	0.735	0.880
	LTE Band 7	20M	QPSK	1	0	Left Edge	10mm	Ant 8	DSI 3	21100	2535	22.68	23.40	1.180			-0.09	0.404	0.477
	LTE Band 7	20M	QPSK	50	0	Left Edge	10mm	Ant 8	DSI 3	21100	2535	21.60	22.40	1.202			0.11	0.254	0.305
	LTE Band 7	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	21100	2535	22.68	23.40	1.180			-0.05	0.89	1.050
	LTE Band 7	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	20850	2510	22.25	23.40	1.303			-0.03	0.71	0.925
	LTE Band 7	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	21350	2560	22.63	23.40	1.194			-0.15	0.989	1.181
	LTE Band 7	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	21100	2535	21.60	22.40	1.202			-0.08	0.73	0.877
	LTE Band 7	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	20850	2510	21.50	22.40	1.230			0.02	0.582	0.716
	LTE Band 7	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	21350	2560	21.58	22.40	1.208			0.07	0.812	0.981
	LTE Band 7	20M	QPSK	100	0	Back	10mm	Ant 8	DSI 3	21100	2535	21.62	22.40	1.197			0.16	0.707	0.846
	LTE Band 7C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	21100+21298	2535	22.60	23.40	1.202			0.16	0.671	0.807
	LTE Band 7C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	20850+21048	2510	22.57	23.40	1.211			-0.03	0.535	0.648
	LTE Band 7C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	21350+21152	2560	22.49	23.40	1.233			-0.12	0.745	0.919
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	20850	2510	24.78	25.00	1.052			0.1	1.18	1.241
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	21100	2535	24.58	25.00	1.102			0.08	1.05	1.157
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	21350	2560	24.73	25.00	1.064			0.01	1.12	1.192
46	LTE Band 12	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	23095	707.5	23.61	25.00	1.377			-0.01	0.46	0.633
47	LTE Band 13	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	23230	782	23.86	25.00	1.300			-0.05	0.547	0.711
48	LTE Band 14	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	23330	793	23.69	25.00	1.352			-0.04	0.696	0.941
49	LTE Band 25	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	26340	1880	21.64	22.70	1.276			-0.1	0.823	1.050
	LTE Band 25	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	26140	1860	21.67	22.70	1.268			0.03	0.55	0.697
	LTE Band 25	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	26590	1905	21.51	22.70	1.315			-0.08	0.558	0.734
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	26340	1880	23.20	24.40	1.318			-0.08	0.704	0.928
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	26140	1860	23.36	22.70	0.859			-0.08	0.573	0.492
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	26590	1905	23.10	22.70	0.912			0.1	0.552	0.503
50	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	26865	831.5	24.58	25.00	1.102			-0.12	0.913	1.006
	LTE Band 30	10M	QPSK	1	0	Front	10mm	Ant 8	DSI 3	27710	2310	21.68	22.90	1.324			-0.18	0.186	0.246
	LTE Band 30	10M	QPSK	25	0	Front	10mm	Ant 8	DSI 3	27710	2310	20.57	21.90	1.358			0.1	0.15	0.204
51	LTE Band 30	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	27710	2310	21.68	22.90	1.324			-0.01	0.925	1.225
	LTE Band 30	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	27710	2310	21.68	22.90	1.324			-0.06	0.902	1.194
	LTE Band 30	10M	QPSK	25	0	Back	10mm	Ant 8	DSI 3	27710	2310	20.57	21.90	1.358			0.12	0.698	0.948
	LTE Band 30	10M	QPSK	50	0	Back	10mm	Ant 8	DSI 3	27710	2310	19.56	21.90	1.714			0.08	0.518	0.888
	LTE Band 30	10M	QPSK	1	0	Left Edge	10mm	Ant 8	DSI 3	27710	2310	21.68	22.90	1.324			-0.17	0.464	0.614
	LTE Band 30	10M	QPSK	25	0	Left Edge	10mm	Ant 8	DSI 3	27710	2310	20.57	21.90	1.358			-0.03	0.372	0.505
	LTE Band 30	10M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	27710	2310	21.68	22.90	1.324			0.14	0.735	0.973
	LTE Band 30	10M	QPSK	25	0	Top Edge	10mm	Ant 8	DSI 3	27710	2310	20.57	21.90	1.358			0.11	0.584	0.793
	LTE Band 30	10M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	27710	2310	19.56	22.90	2.158			-0.05	0.42	0.906
	LTE Band 30	10M	QPSK	1	0	Bottom Edge	10mm	Ant 5	DSI 3	27710	2310	24.03	24.50	1.114			-0.05	0.202	0.225
52	LTE Band 66	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	132572	1770	24.38	25.00	1.153			-0.12	1.08	1.245
	LTE Band 66	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	132072	1720	24.07	25.00	1.239			0.18	0.942	1.167
	LTE Band 66	20M	QPSK	1	0	Right Edge	10mm	Ant 1	DSI 3	132322	1745	24.27	25.00	1.183			0.14	0.995	1.177



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	LTE Band 66	20M	QPSK	1	0	Bottom Edge	10mm	Ant 5	DSI 3	132572	1770	23.96	25.00	1.271			-0.1	0.898	1.141
	LTE Band 66	20M	QPSK	1	0	Bottom Edge	10mm	Ant 5	DSI 3	132072	1720	23.81	25.00	1.315			-0.17	0.845	1.111
	LTE Band 66	20M	QPSK	1	0	Bottom Edge	10mm	Ant 5	DSI 3	132322	1745	24.11	25.00	1.227			0.17	0.88	1.080
53	LTE Band 71	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	133297	680.5	23.94	25.50	1.432			-0.08	0.389	0.557
54	LTE Band 106	3M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	134322	899	24.36	25.00	1.159			-0.07	0.168	0.195
55	LTE Band 70	15M	QPSK	1	0	Back	10mm	Ant 1	DSI 3	133047	1702.5	24.42	25.00	1.143			-0.17	0.796	0.910
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 8	DSI 3	41490	2680	21.76	22.50	1.186	62.9	1.006	-0.05	0.228	0.272
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 8	DSI 3	41490	2680	20.85	21.50	1.161	62.9	1.006	0.01	0.151	0.176
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41490	2680	21.76	22.50	1.186	62.9	1.006	0.1	0.78	0.931
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	39750	2506	21.39	22.50	1.291	62.9	1.006	-0.17	0.779	1.012
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40185	2549.5	21.47	22.50	1.268	62.9	1.006	0.04	0.633	0.807
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40620	2593	21.69	22.50	1.205	62.9	1.006	-0.01	0.54	0.655
56	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41055	2636.5	21.75	22.50	1.189	62.9	1.006	0.12	1.05	1.256
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 3	41490	2680	21.76	21.50	0.942	62.9	1.006	-0.08	0.611	0.579
	LTE Band 41	20M	QPSK	100	0	Back	10mm	Ant 8	DSI 3	41490	2680	20.83	21.50	1.167	62.9	1.006	0.05	0.607	0.713
	LTE Band 41	20M	QPSK	1	0	Left Edge	10mm	Ant 8	DSI 3	41490	2680	21.76	22.50	1.186	62.9	1.006	0.06	0.338	0.403
	LTE Band 41	20M	QPSK	50	0	Left Edge	10mm	Ant 8	DSI 3	41490	2680	20.85	21.50	1.161	62.9	1.006	-0.09	0.275	0.321
	LTE Band 41	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	41490	2680	21.76	22.50	1.186	62.9	1.006	-0.08	0.754	0.900
	LTE Band 41	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	39750	2506	21.39	22.50	1.291	62.9	1.006	0.13	0.753	0.978
	LTE Band 41	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	40185	2549.5	21.47	22.50	1.268	62.9	1.006	0.12	0.612	0.781
	LTE Band 41	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	40620	2593	21.69	22.50	1.205	62.9	1.006	0.03	0.522	0.633
	LTE Band 41	20M	QPSK	1	0	Top Edge	10mm	Ant 8	DSI 3	41055	2636.5	21.75	22.50	1.189	62.9	1.006	0.18	0.92	1.100
	LTE Band 41	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	41490	2680	20.85	21.50	1.161	62.9	1.006	0.16	0.59	0.689
	LTE Band 41	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	39750	2506	20.55	21.50	1.245	62.9	1.006	-0.1	0.589	0.738
	LTE Band 41	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	40185	2549.5	20.60	21.50	1.230	62.9	1.006	0.07	0.479	0.593
	LTE Band 41	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	40620	2593	20.75	21.50	1.189	62.9	1.006	0.18	0.409	0.489
	LTE Band 41	20M	QPSK	50	0	Top Edge	10mm	Ant 8	DSI 3	41055	2636.5	20.83	21.50	1.167	62.9	1.006	-0.1	0.72	0.845
	LTE Band 41C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41490+41292	2680	21.72	22.50	1.197	62.9	1.006	0.01	0.748	0.901
	LTE Band 41C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	39750+39948	2506	21.32	22.50	1.312	62.9	1.006	0.19	0.747	0.986
	LTE Band 41C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40185+40383	2549.5	21.37	22.50	1.297	62.9	1.006	0.07	0.607	0.792
	LTE Band 41C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40620+40818	2593	21.57	22.50	1.239	62.9	1.006	-0.18	0.518	0.646
	LTE Band 41C	20M+20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41055+41253	2636.5	21.70	22.50	1.202	62.9	1.006	0.03	0.913	1.104
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40620	2593	23.56	24.10	1.132	42.9	1.009	-0.15	0.836	0.955
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	39750	2506	23.42	24.10	1.169	42.9	1.009	-0.15	0.835	0.985
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	40185	2549.5	23.34	24.10	1.191	42.9	1.009	-0.15	0.679	0.816
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41055	2636.5	23.50	24.10	1.148	42.9	1.009	0.11	0.579	0.671
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	41490	2680	23.55	24.10	1.135	42.9	1.009	-0.08	0.899	1.030
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	41055	2636.5	26.30	27.00	1.175	42.9	1.009	-0.06	1	1.186
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	39750	2506	26.14	27.00	1.219	42.9	1.009	-0.17	0.699	0.860
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	40185	2549.5	26.19	27.00	1.205	42.9	1.009	-0.08	0.973	1.183
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	40620	2593	26.24	27.00	1.191	42.9	1.009	-0.04	0.985	1.184
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 3	41490	2680	26.28	27.00	1.180	42.9	1.009	-0.08	0.9	1.072
57	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	56640	3690	22.85	23.00	1.035	62.9	1.006	0	1.23	1.281
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	55340	3560	22.51	23.00	1.119	62.9	1.006	0.17	0.904	1.018
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	55830	3609	22.34	23.00	1.164	62.9	1.006	0.18	0.602	0.705
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	55990	3625	22.26	23.00	1.186	62.9	1.006	-0.04	0.745	0.889
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	56150	3641	22.32	23.00	1.169	62.9	1.006	-0.08	0.959	1.128
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 9	DSI 3	55990	3625	22.26	23.00	1.186	62.9	1.006	-0.01	0.648	0.773
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 9	DSI 3	55340	3560	22.11	23.00	1.227	62.9	1.006	-0.13	0.477	0.589
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 9	DSI 3	55830	3609	22.14	23.00	1.219	62.9	1.006	-0.13	0.317	0.389
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 9	DSI 3	56150	3641	22.22	23.00	1.197	62.9	1.006	0.06	0.392	0.472
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 9	DSI 3	56640	3690	22.24	23.00	1.191	62.9	1.006	-0.03	0.506	0.606
58	LTE Band 53	10M	QPSK	1	0	Back	10mm	Ant 8	DSI 3	60198	2489.3	23.07	25.00	1.560	62.9	1.006	-0.04	0.795	1.248

**< 5G NR SAR >**

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
59	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	507000	2535	24.37	25.00	1.156	-0.09	0.979	1.132
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 5	DSI 3	507000	2535	22.14	22.40	1.062	-0.03	0.111	0.118
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 5	DSI 3	507000	2535	22.17	22.40	1.054	0.08	0.131	0.138
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 5	DSI 3	507000	2535	22.14	22.40	1.062	-0.05	0.751	0.798
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 5	DSI 3	507000	2535	22.17	22.40	1.054	-0.1	0.827	0.872
	FR1 n7	50M	BPSK	270	0	Back	10mm	Ant 5	DSI 3	507000	2535	22.05	22.40	1.084	-0.07	0.795	0.862
	FR1 n7	50M	BPSK	1	1	Right Edge	10mm	Ant 5	DSI 3	507000	2535	22.14	22.40	1.062	0.05	0.113	0.120
	FR1 n7	50M	BPSK	135	68	Right Edge	10mm	Ant 5	DSI 3	507000	2535	22.17	22.40	1.054	-0.11	0.17	0.179
	FR1 n7	50M	BPSK	1	1	Bottom Edge	10mm	Ant 5	DSI 3	507000	2535	22.14	22.40	1.062	-0.12	0.457	0.485
	FR1 n7	50M	BPSK	135	68	Bottom Edge	10mm	Ant 5	DSI 3	507000	2535	22.17	22.40	1.054	0.03	0.525	0.553
60	FR1 n12	15M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	141500	707.5	24.28	25.00	1.180	-0.12	0.25	0.295
61	FR1 n13	10M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	156400	782	24.04	25.00	1.247	-0.1	0.366	0.456
62	FR1 n14	10M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	158600	793	23.93	25.00	1.279	-0.07	0.397	0.508
63	FR1 n25	40M	BPSK	1	1	Right Edge	10mm	Ant 1	DSI 3	376500	1882.5	21.85	22.50	1.161	-0.06	0.837	0.972
	FR1 n25	40M	BPSK	1	1	Right Edge	10mm	Ant 1	DSI 3	374000	1870	21.61	22.50	1.227	-0.16	0.788	0.967
	FR1 n25	40M	BPSK	1	1	Right Edge	10mm	Ant 1	DSI 3	379000	1895	21.69	22.50	1.205	-0.02	0.805	0.970
	FR1 n25	40M	BPSK	1	1	Bottom Edge	10mm	Ant 5	DSI 3	376500	1882.5	22.58	24.20	1.452	-0.11	0.375	0.545
64	FR1 n26	20M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	166300	831.5	23.95	25.00	1.274	-0.11	0.665	0.847
	FR1 n30	10M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	462000	2310	22.58	23.30	1.180	0.15	0.181	0.214
	FR1 n30	10M	BPSK	25	14	Front	10mm	Ant 8	DSI 3	462000	2310	22.45	23.30	1.216	-0.09	0.177	0.215
65	FR1 n30	10M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	462000	2310	22.58	23.30	1.180	0	1.04	1.227
	FR1 n30	10M	BPSK	25	14	Back	10mm	Ant 8	DSI 3	462000	2310	22.45	23.30	1.216	0.11	0.871	1.059
	FR1 n30	10M	BPSK	50	0	Back	10mm	Ant 8	DSI 3	462000	2310	22.47	23.30	1.211	-0.05	0.945	1.144
	FR1 n30	10M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	462000	2310	22.58	23.30	1.180	-0.08	0.485	0.572
	FR1 n30	10M	BPSK	25	14	Left Edge	10mm	Ant 8	DSI 3	462000	2310	22.45	23.30	1.216	0.16	0.447	0.544
	FR1 n30	10M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	462000	2310	22.58	23.30	1.180	0.05	0.653	0.771
	FR1 n30	10M	BPSK	25	14	Top Edge	10mm	Ant 8	DSI 3	462000	2310	22.45	23.30	1.216	0.05	0.607	0.738
	FR1 n30	10M	BPSK	1	1	Bottom Edge	10mm	Ant 5	DSI 3	462000	2310	24.16	24.50	1.081	-0.09	0.285	0.308
66	FR1 n66	40M	BPSK	1	1	Right Edge	10mm	Ant 1	DSI 3	349000	1745	24.66	25.00	1.081	-0.04	0.727	0.786
	FR1 n66	40M	BPSK	1	1	Bottom Edge	10mm	Ant 5	DSI 3	349000	1745	23.76	24.10	1.081	-0.06	0.656	0.709
67	FR1 n70	15M	BPSK	1	1	Back	10mm	Ant 1	DSI 3	340500	1702.5	24.10	25.00	1.230	-0.06	0.861	1.059
68	FR1 n71	20M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	136100	680.5	24.01	25.50	1.409	-0.1	0.186	0.262
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	518598	2592.99	22.51	23.50	1.256	-0.03	0.135	0.170
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 8	DSI 3	518598	2592.99	22.50	23.50	1.259	-0.15	0.068	0.086
69	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	518598	2592.99	22.51	23.50	1.256	-0.01	0.991	1.245
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 8	DSI 3	518598	2592.99	22.50	23.50	1.259	0.02	0.793	0.998
	FR1 n41	100M	BPSK	270	0	Back	10mm	Ant 8	DSI 3	518598	2592.99	22.44	23.00	1.138	0.07	0.633	0.720
	FR1 n41	100M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	518598	2592.99	22.51	23.50	1.256	0.16	0.155	0.195
	FR1 n41	100M	BPSK	135	69	Left Edge	10mm	Ant 8	DSI 3	518598	2592.99	22.50	23.50	1.259	0.13	0.287	0.361
	FR1 n41	100M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	518598	2592.99	22.51	23.50	1.256	-0.18	0.27	0.339
	FR1 n41	100M	BPSK	135	69	Top Edge	10mm	Ant 8	DSI 3	518598	2592.99	22.50	23.50	1.259	0.02	0.241	0.303
	FR1 n41_HPUE	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	518598	2592.99	25.44	26.00	1.138	0.16	0.954	1.086
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 5	DSI 3	518598	2592.99	22.82	23.00	1.042	-0.03	0.251	0.262
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 5	DSI 3	518598	2592.99	22.67	23.00	1.079	0.07	0.221	0.238
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 5	DSI 3	518598	2592.99	22.82	23.00	1.042	-0.07	1.02	1.063
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 5	DSI 3	518598	2592.99	22.67	23.00	1.079	0	0.905	0.976
	FR1 n41	100M	BPSK	270	0	Back	10mm	Ant 5	DSI 3	518598	2592.99	22.45	23.00	1.135	0.01	0.935	1.061
	FR1 n41	100M	BPSK	1	1	Right Edge	10mm	Ant 5	DSI 3	518598	2592.99	22.82	23.00	1.042	-0.01	0.188	0.196
	FR1 n41	100M	BPSK	135	69	Right Edge	10mm	Ant 5	DSI 3	518598	2592.99	22.67	23.00	1.079	-0.06	0.119	0.128
	FR1 n41	100M	BPSK	1	1	Bottom Edge	10mm	Ant 5	DSI 3	518598	2592.99	22.82	23.00	1.042	-0.04	0.67	0.698
	FR1 n41	100M	BPSK	135	69	Bottom Edge	10mm	Ant 5	DSI 3	518598	2592.99	22.67	23.00	1.079	-0.09	0.521	0.562



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	FR1 n41_HPUE	100M	BPSK	1	1	Back	10mm	Ant 5	DSI 3	518598	2592.99	25.23	26.00	1.194	-0.17	0.832	0.993
	FR1 n41	100M	BPSK	1	1	Right Edge	10mm	Ant 3	DSI 3	518598	2592.99	23.27	23.70	1.104	-0.06	0.761	0.840
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 4	DSI 3	518598	2592.99	22.77	23.00	1.054	-0.14	0.222	0.234
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	641666	3624.99	18.66	20.00	1.361	-0.1	0.131	0.178
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 8	DSI 3	641666	3624.99	18.62	20.00	1.374	0.18	0.127	0.174
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	641666	3624.99	18.66	20.00	1.361	-0.17	0.644	0.876
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	638000	3570	18.60	20.00	1.380	-0.04	0.701	0.967
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	645332	3679.98	18.62	20.00	1.374	0.03	0.707	0.971
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 8	DSI 3	641666	3624.99	18.62	20.00	1.374	-0.05	0.617	0.848
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 8	DSI 3	638000	3570	18.49	20.00	1.416	0	0.67	0.949
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 8	DSI 3	645332	3679.98	18.51	20.00	1.409	-0.13	0.676	0.952
	FR1 n48	40M	BPSK	100	0	Back	10mm	Ant 8	DSI 3	641666	3624.99	18.62	20.00	1.374	-0.01	0.611	0.840
	FR1 n48	40M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	641666	3624.99	18.66	20.00	1.361	-0.09	0.352	0.479
	FR1 n48	40M	BPSK	50	28	Left Edge	10mm	Ant 8	DSI 3	641666	3624.99	18.62	20.00	1.374	0.05	0.302	0.415
	FR1 n48	40M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	641666	3624.99	18.66	20.00	1.361	0.02	0.304	0.414
	FR1 n48	40M	BPSK	50	28	Top Edge	10mm	Ant 8	DSI 3	641666	3624.99	18.62	20.00	1.374	-0.13	0.308	0.423
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 9	DSI 3	638000	3570	21.76	21.90	1.033	0.17	0.167	0.173
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 9	DSI 3	638000	3570	21.65	21.90	1.059	0.06	0.189	0.200
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	638000	3570	21.76	21.90	1.033	0	0.86	0.888
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	641666	3624.99	21.38	21.90	1.127	-0.04	0.852	0.960
70	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	645332	3679.98	21.51	21.90	1.094	-0.02	0.9	0.985
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	645332	3679.98	21.51	21.90	1.094	0.03	0.823	0.900
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 9	DSI 3	638000	3570	21.65	21.90	1.059	-0.15	0.844	0.894
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 9	DSI 3	641666	3624.99	21.27	21.90	1.156	0.11	0.836	0.966
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 9	DSI 3	645332	3679.98	21.35	21.90	1.135	-0.02	0.821	0.932
	FR1 n48	40M	BPSK	100	0	Back	10mm	Ant 9	DSI 3	638000	3570	21.44	21.90	1.112	0.1	0.836	0.930
	FR1 n48	40M	BPSK	1	1	Right Edge	10mm	Ant 9	DSI 3	638000	3570	21.76	21.90	1.033	0.04	0.169	0.175
	FR1 n48	40M	BPSK	50	28	Right Edge	10mm	Ant 9	DSI 3	638000	3570	21.65	21.90	1.059	0.13	0.166	0.176
	FR1 n48	40M	BPSK	1	1	Top Edge	10mm	Ant 9	DSI 3	638000	3570	21.76	21.90	1.033	-0.18	0.515	0.532
	FR1 n48	40M	BPSK	50	28	Top Edge	10mm	Ant 9	DSI 3	638000	3570	21.65	21.90	1.059	-0.11	0.484	0.513
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	633332	3499.98	19.50	20.20	1.175	-0.16	0.218	0.256
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 8	DSI 3	633332	3499.98	19.39	20.20	1.205	-0.15	0.21	0.253
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	633332	3499.98	19.50	20.20	1.175	0.04	0.88	1.034
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 8	DSI 3	633332	3499.98	19.39	20.20	1.205	-0.06	0.799	0.963
	FR1 n77 (27Q)	100M	BPSK	270	0	Back	10mm	Ant 8	DSI 3	633332	3499.98	19.28	20.20	1.236	-0.14	0.836	1.033
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	633332	3499.98	19.50	20.20	1.175	-0.19	0.411	0.483
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Edge	10mm	Ant 8	DSI 3	633332	3499.98	19.39	20.20	1.205	0.01	0.457	0.551
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	633332	3499.98	19.50	20.20	1.175	0.06	0.354	0.416
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Edge	10mm	Ant 8	DSI 3	633332	3499.98	19.39	20.20	1.205	0.02	0.417	0.502
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	633332	3499.98	22.45	23.20	1.189	0.12	0.456	0.542
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 9	DSI 3	633332	3499.98	18.92	19.60	1.169	-0.16	0.36	0.421
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 9	DSI 3	633332	3499.98	18.77	19.60	1.211	-0.12	0.318	0.385
71	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	633332	3499.98	18.92	19.60	1.169	0.02	1.09	1.274
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	633332	3499.98	18.92	19.60	1.169	0.03	1.07	1.251
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 9	DSI 3	633332	3499.98	18.77	19.60	1.211	0.07	0.939	1.137
	FR1 n77 (27Q)	100M	BPSK	270	0	Back	10mm	Ant 9	DSI 3	633332	3499.98	18.65	19.60	1.245	-0.02	0.948	1.180
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Edge	10mm	Ant 9	DSI 3	633332	3499.98	18.92	19.60	1.169	-0.05	0.227	0.265
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Edge	10mm	Ant 9	DSI 3	633332	3499.98	18.77	19.60	1.211	-0.13	0.181	0.219
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Edge	10mm	Ant 9	DSI 3	633332	3499.98	18.92	19.60	1.169	0.08	0.435	0.509
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Edge	10mm	Ant 9	DSI 3	633332	3499.98	18.77	19.60	1.211	0.16	0.377	0.457
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	633332	3499.98	22.47	22.60	1.030	0.01	1.18	1.215
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Edge	10mm	Ant 3	DSI 3	633332	3499.98	19.38	20.40	1.265	-0.07	0.412	0.521
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 4	DSI 3	633332	3499.98	18.34	18.90	1.138	-0.16	0.122	0.139
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 4	DSI 3	633332	3499.98	18.23	18.90	1.167	0.1	0.113	0.132
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 4	DSI 3	633332	3499.98	18.34	18.90	1.138	-0.04	0.866	0.986



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	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 4	DSI 3	633332	3499.98	18.23	18.90	1.167	-0.01	0.88	1.027
	FR1 n77 (27Q)	100M	BPSK	270	0	Back	10mm	Ant 4	DSI 3	633332	3499.98	18.23	18.90	1.167	0	0.898	1.048
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Edge	10mm	Ant 4	DSI 3	633332	3499.98	18.34	18.90	1.138	-0.08	0.926	1.054
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Edge	10mm	Ant 4	DSI 3	633332	3499.98	18.23	18.90	1.167	-0.11	0.875	1.021
	FR1 n77 (27Q)	100M	BPSK	270	0	Left Edge	10mm	Ant 4	DSI 3	633332	3499.98	18.23	18.90	1.167	-0.06	0.9	1.050
	FR1 n77/n78 (96)	100M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	641666	3624.99	19.28	20.20	1.236	-0.15	0.184	0.227
	FR1 n77/n78 (96)	100M	BPSK	135	69	Front	10mm	Ant 8	DSI 3	641666	3624.99	19.15	20.20	1.274	0.03	0.197	0.251
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	641666	3624.99	19.28	20.20	1.236	0.02	0.647	0.800
	FR1 n77/n78 (96)	100M	BPSK	135	69	Back	10mm	Ant 8	DSI 3	641666	3624.99	19.15	20.20	1.274	-0.13	0.617	0.786
	FR1 n77/n78 (96)	100M	BPSK	270	0	Back	10mm	Ant 8	DSI 3	641666	3624.99	19.12	20.20	1.282	0.16	0.611	0.783
	FR1 n77/n78 (96)	100M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	641666	3624.99	19.28	20.20	1.236	-0.15	0.44	0.544
	FR1 n77/n78 (96)	100M	BPSK	135	69	Left Edge	10mm	Ant 8	DSI 3	641666	3624.99	19.15	20.20	1.274	-0.02	0.423	0.539
	FR1 n77/n78 (96)	100M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	641666	3624.99	19.28	20.20	1.236	-0.09	0.479	0.592
	FR1 n77/n78 (96)	100M	BPSK	135	69	Top Edge	10mm	Ant 8	DSI 3	641666	3624.99	19.15	20.20	1.274	0.14	0.471	0.600
	FR1 n77/n78 (96)	100M	BPSK	1	1	Front	10mm	Ant 9	DSI 3	641666	3624.99	19.38	19.60	1.052	0.1	0.378	0.398
	FR1 n77/n78 (96)	100M	BPSK	135	69	Front	10mm	Ant 9	DSI 3	641666	3624.99	19.36	19.60	1.057	-0.09	0.261	0.276
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	641666	3624.99	19.38	19.60	1.052	0.01	0.819	0.862
	FR1 n77/n78 (96)	100M	BPSK	135	69	Back	10mm	Ant 9	DSI 3	641666	3624.99	19.36	19.60	1.057	0.07	0.789	0.834
	FR1 n77/n78 (96)	100M	BPSK	270	0	Back	10mm	Ant 9	DSI 3	641666	3624.99	19.35	19.60	1.059	-0.09	0.808	0.856
	FR1 n77/n78 (96)	100M	BPSK	1	1	Right Edge	10mm	Ant 9	DSI 3	641666	3624.99	19.38	19.60	1.052	-0.16	0.104	0.109
	FR1 n77/n78 (96)	100M	BPSK	135	69	Right Edge	10mm	Ant 9	DSI 3	641666	3624.99	19.36	19.60	1.057	-0.18	0.284	0.300
	FR1 n77/n78 (96)	100M	BPSK	1	1	Top Edge	10mm	Ant 9	DSI 3	641666	3624.99	19.38	19.60	1.052	-0.07	0.654	0.688
	FR1 n77/n78 (96)	100M	BPSK	135	69	Top Edge	10mm	Ant 9	DSI 3	641666	3624.99	19.36	19.60	1.057	0.11	0.641	0.678
	FR1 n77/n78 (96)	100M	BPSK	1	1	Right Edge	10mm	Ant 3	DSI 3	641666	3624.99	19.33	20.40	1.279	-0.07	0.366	0.468
	FR1 n77/n78 (96)	100M	BPSK	1	1	Front	10mm	Ant 4	DSI 3	641666	3624.99	18.18	18.90	1.180	-0.08	0.082	0.097
	FR1 n77/n78 (96)	100M	BPSK	135	69	Front	10mm	Ant 4	DSI 3	641666	3624.99	18.01	18.90	1.227	-0.1	0.079	0.097
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back	10mm	Ant 4	DSI 3	641666	3624.99	18.18	18.90	1.180	-0.01	0.669	0.789
	FR1 n77/n78 (96)	100M	BPSK	135	69	Back	10mm	Ant 4	DSI 3	641666	3624.99	18.01	18.90	1.227	-0.09	0.561	0.688
	FR1 n77/n78 (96)	100M	BPSK	1	1	Left Edge	10mm	Ant 4	DSI 3	641666	3624.99	18.18	18.90	1.180	-0.07	0.835	0.985
	FR1 n77/n78 (96)	100M	BPSK	135	69	Left Edge	10mm	Ant 4	DSI 3	641666	3624.99	18.01	18.90	1.227	-0.06	0.731	0.897
	FR1 n77/n78 (96)	100M	BPSK	270	0	Left Edge	10mm	Ant 4	DSI 3	641666	3624.99	17.98	18.90	1.236	-0.17	0.543	0.671
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 8	DSI 3	656000	3840	19.50	20.20	1.175	-0.01	0.097	0.114
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 8	DSI 3	656000	3840	19.41	20.20	1.199	-0.11	0.102	0.122
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	656000	3840	19.50	20.20	1.175	0.01	0.664	0.780
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 8	DSI 3	656000	3840	19.41	20.20	1.199	-0.08	1.05	1.259
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 8	DSI 3	656000	3840	19.41	20.20	1.199	-0.08	1	1.199
	FR1 n77 (27Q)	100M	BPSK	270	0	Back	10mm	Ant 8	DSI 3	656000	3840	19.40	20.20	1.202	0.13	0.896	1.077
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Edge	10mm	Ant 8	DSI 3	656000	3840	19.50	20.20	1.175	0.14	0.354	0.416
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Edge	10mm	Ant 8	DSI 3	656000	3840	19.41	20.20	1.199	0.03	0.466	0.559
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Edge	10mm	Ant 8	DSI 3	656000	3840	19.50	20.20	1.175	0.1	0.423	0.497
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Edge	10mm	Ant 8	DSI 3	656000	3840	19.41	20.20	1.199	0.16	0.315	0.378
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	10mm	Ant 8	DSI 3	656000	3840	22.49	23.20	1.178	-0.06	0.933	1.099
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 9	DSI 3	656000	3840	18.46	19.60	1.300	0.02	0.076	0.099
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 9	DSI 3	656000	3840	18.40	19.60	1.318	-0.16	0.072	0.095
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	656000	3840	18.46	19.60	1.300	-0.09	0.326	0.424
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	10mm	Ant 9	DSI 3	656000	3840	18.40	19.60	1.318	0.05	0.319	0.420
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Edge	10mm	Ant 9	DSI 3	656000	3840	18.46	19.60	1.300	-0.03	0.065	0.085
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Edge	10mm	Ant 9	DSI 3	656000	3840	18.40	19.60	1.318	0.17	0.053	0.070
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Edge	10mm	Ant 9	DSI 3	656000	3840	18.46	19.60	1.300	-0.15	0.206	0.268
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Edge	10mm	Ant 9	DSI 3	656000	3840	18.40	19.60	1.318	0.16	0.191	0.252
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	10mm	Ant 9	DSI 3	656000	3840	21.55	22.60	1.274	0.05	0.28	0.357
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Edge	10mm	Ant 3	DSI 3	656000	3840	20.15	20.40	1.059	-0.06	0.6	0.635
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	10mm	Ant 4	DSI 3	656000	3840	18.15	18.90	1.189	0.01	0.223	0.265
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	10mm	Ant 4	DSI 3	656000	3840	18.10	18.90	1.202	0.02	0.123	0.148
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	10mm	Ant 4	DSI 3	656000	3840	18.15	18.90	1.189	-0.11	0.592	0.704

	FR1 n77 (270)	100M	BPSK	135	69	Back	10mm	Ant 4	DSI 3	656000	3840	18.10	18.90	1.202	-0.01	0.471	0.566
	FR1 n77 (270)	100M	BPSK	1	1	Left Edge	10mm	Ant 4	DSI 3	656000	3840	18.15	18.90	1.189	-0.08	0.78	0.927
	FR1 n77 (270)	100M	BPSK	135	69	Left Edge	10mm	Ant 4	DSI 3	656000	3840	18.10	18.90	1.202	0.09	0.705	0.847
	FR1 n77 (270)	100M	BPSK	270	0	Left Edge	10mm	Ant 4	DSI 3	656000	3840	17.95	18.90	1.245	0.1	0.639	0.796
72	FR1 n53	10M	BPSK	1	22	Back	10mm	Ant 8	DSI 3	497860	2489.3	23.10	24.00	1.230	-0.05	0.912	1.122

< WLAN SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
73	2.4GHz WLAN	802.11b 1Mbps	Back	10mm	Ant MIMO(6)	DSI 3	11	2462	20.40	21.00	1.148	86.1	1.162	-0.14	0.549	0.732
74	5.2GHz WLAN	802.11a 6Mbps	Right Edge	10mm	Ant MIMO(6)	DSI 3	44	5220	19.00	19.20	1.047	85.8	1.165	-0.05	0.614	0.749
	5.2GHz WLAN	802.11a 6Mbps	Right Edge	10mm	Ant MIMO(6)	DSI 3	36	5180	19.00	19.00	1.000	85.8	1.165	0.18	0.588	0.685
	5.2GHz WLAN	802.11a 6Mbps	Right Edge	10mm	Ant MIMO(6)	DSI 3	40	5200	18.90	19.20	1.072	85.8	1.165	-0.11	0.551	0.688
	5.2GHz WLAN	802.11a 6Mbps	Right Edge	10mm	Ant MIMO(6)	DSI 3	48	5240	19.00	19.20	1.047	85.8	1.165	-0.05	0.575	0.701
75	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	10mm	Ant MIMO(7)	DSI 3	155	5775	18.90	19.20	1.072	85.8	1.166	0.1	0.846	1.057
76	6GHz WLAN	802.11be-EHT320 MCS0	Left Edge	10mm	Ant MIMO(6)	DSI 3	191	6905	10.90	11.00	1.023	85.6	1.168	-0.13	0.094	0.112

< Bluetooth SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
77	Bluetooth	1Mbps	Back	10mm	Ant MIMO(7)	DSI 3	39	2441	15.90	16.00	1.023	76.9	1.083	-0.03	0.301	0.333

< RFID SAR >

Plot No	Band	Test Position	Gap (mm)	Antenna	Power State	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	RFID	Front	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	-0.15	0.621	0.851
78	RFID	Back	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	-0.05	0.892	1.223
	RFID	Back	10mm	Ant 8	DSI 3	902.75	24.45	26.00	1.429	-0.12	0.849	1.213
	RFID	Back	10mm	Ant 8	DSI 3	927.25	24.50	26.00	1.413	-0.16	0.856	1.210
	RFID	Left Edge	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	-0.03	0.574	0.787
	RFID	Right Edge	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	0.17	0.194	0.266
	RFID	Top Edge	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	0.02	0.695	0.953
	RFID	Bottom Edge	10mm	Ant 8	DSI 3	914.75	24.63	26.00	1.371	0	0.001	0.001

14.3 Body Worn Accessory SAR

< GSM SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 3 Tx slots	Back with Holster	0mm	Ant 8	DSI 1	128	824.2	29.70	30.00	1.072	0	0.115	0.123
79	GSM850	GPRS 3 Tx slots	Back with Clip	15mm	Ant 8	DSI 1	128	824.2	29.70	30.00	1.072	0.03	0.372	0.399
	GSM1900	GPRS 3 Tx slots	Back with Holster	0mm	Ant 1	DSI 1	661	1880	26.75	27.70	1.245	-0.14	0.092	0.115
80	GSM1900	GPRS 3 Tx slots	Back with Clip	15mm	Ant 1	DSI 1	661	1880	26.75	27.70	1.245	0.04	0.237	0.295

< WCDMA SAR >

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Back with Holster	0mm	Ant 1	DSI 1	9262	1852.4	22.55	23.40	1.216	0.01	0.126	0.153
81	WCDMA II	RMC 12.2Kbps	Back with Clip	15mm	Ant 1	DSI 1	9262	1852.4	22.55	23.40	1.216	-0.01	0.299	0.364
	WCDMA IV	RMC 12.2Kbps	Back with Holster	0mm	Ant 1	DSI 1	1513	1752.6	24.68	25.00	1.076	0.18	0.383	0.412
82	WCDMA IV	RMC 12.2Kbps	Back with Clip	15mm	Ant 1	DSI 1	1513	1752.6	24.68	25.00	1.076	0	0.569	0.612
83	WCDMA V	RMC 12.2Kbps	Back with Holster	0mm	Ant 8	DSI 1	4132	826.4	23.63	25.00	1.371	-0.05	0.145	0.199
	WCDMA V	RMC 12.2Kbps	Back with Clip	15mm	Ant 8	DSI 1	4132	826.4	23.63	25.00	1.371	0.02	0.134	0.184

< LTE SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	21100	2535	23.66	24.00	1.081			0.06	0.519	0.561
	LTE Band 7	20M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	21100	2535	23.66	24.00	1.081			-0.02	0.753	0.814
84	LTE Band 7	20M	QPSK	1	0	Back with Holster	0mm	Ant 5	DSI 1	20850	2510	24.58	25.00	1.102			0.01	1.07	1.179
	LTE Band 7	20M	QPSK	1	0	Back with Clip	15mm	Ant 5	DSI 1	20850	2510	24.58	25.00	1.102			0.13	0.552	0.608
85	LTE Band 12	10M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	23095	707.5	23.61	25.00	1.377			-0.02	0.185	0.255
	LTE Band 12	10M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	23095	707.5	23.61	25.00	1.377			-0.08	0.124	0.171
86	LTE Band 13	10M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	23230	782	23.86	25.00	1.300			-0.02	0.166	0.216
	LTE Band 13	10M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	23230	782	23.86	25.00	1.300			-0.09	0.121	0.157
87	LTE Band 14	10M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	23330	793	23.69	25.00	1.352			0.04	0.192	0.260
	LTE Band 14	10M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	23330	793	23.69	25.00	1.352			0.06	0.149	0.201
	LTE Band 25	20M	QPSK	1	0	Back with Holster	0mm	Ant 1	DSI 1	26140	1860	21.67	22.70	1.268			-0.04	0.315	0.399
88	LTE Band 25	20M	QPSK	1	0	Back with Clip	15mm	Ant 1	DSI 1	26140	1860	21.67	22.70	1.268			-0.08	0.656	0.832
	LTE Band 25	20M	QPSK	1	0	Back with Holster	0mm	Ant 5	DSI 1	26340	1880	23.20	24.40	1.318			-0.05	0.521	0.687
	LTE Band 25	20M	QPSK	1	0	Back with Clip	15mm	Ant 5	DSI 1	26340	1880	23.20	24.40	1.318			0.05	0.321	0.423
89	LTE Band 26	15M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	26865	831.5	23.13	25.00	1.538			-0.01	0.294	0.452
	LTE Band 26	15M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	26865	831.5	23.13	25.00	1.538			-0.08	0.249	0.383
	LTE Band 30	10M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	27710	2310	23.45	24.30	1.216			0.04	0.439	0.534
90	LTE Band 30	10M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	27710	2310	23.45	24.30	1.216			-0.02	0.761	0.925
	LTE Band 30	10M	QPSK	1	0	Front with Holster	0mm	Ant 5	DSI 1	27710	2310	24.03	24.50	1.114			-0.09	0.204	0.227
	LTE Band 30	10M	QPSK	1	0	Back with Clip	15mm	Ant 5	DSI 1	27710	2310	24.03	24.50	1.114			-0.17	0.117	0.130
	LTE Band 66	20M	QPSK	1	0	Back with Holster	0mm	Ant 1	DSI 1	132572	1770	24.38	25.00	1.153			0.1	0.421	0.485
	LTE Band 66	20M	QPSK	1	0	Back with Clip	15mm	Ant 1	DSI 1	132572	1770	24.38	25.00	1.153			-0.03	0.615	0.709
91	LTE Band 66	20M	QPSK	1	0	Back with Holster	0mm	Ant 5	DSI 1	132572	1770	23.96	25.00	1.271			0.03	0.696	0.885
	LTE Band 66	20M	QPSK	1	0	Back with Clip	15mm	Ant 5	DSI 1	132572	1770	23.96	25.00	1.271			0	0.324	0.412
92	LTE Band 71	20M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	133297	680.5	23.94	25.50	1.432			0.05	0.113	0.162
	LTE Band 71	20M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	133297	680.5	23.94	25.50	1.432			0.01	0.083	0.119
	LTE Band 106	3M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	134322	899	24.36	25.00	1.159			-0.05	0.001	0.001



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93	LTE Band 106	3M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	134322	899	24.36	25.00	1.159			-0.02	0.089	0.103
	LTE Band 70	15M	QPSK	1	0	Back with Holster	0mm	Ant 1	DSI 1	133047	1702.5	24.42	25.00	1.143			0.17	0.04	0.046
94	LTE Band 70	15M	QPSK	1	0	Back with Clip	15mm	Ant 1	DSI 1	133047	1702.5	24.42	25.00	1.143			0.03	0.645	0.737
	LTE Band 41	20M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	40185	2549.5	23.82	25.00	1.312	62.9	1.006	-0.17	0.326	0.430
95	LTE Band 41	20M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	40185	2549.5	23.82	25.00	1.312	62.9	1.006	-0.02	0.438	0.578
	LTE Band 41	20M	QPSK	1	0	Back with Holster	0mm	Ant 5	DSI 1	41055	2636.5	24.49	25.00	1.125	62.9	1.006	-0.11	0.219	0.248
	LTE Band 41	20M	QPSK	1	0	Back with Clip	15mm	Ant 5	DSI 1	41055	2636.5	24.49	25.00	1.125	62.9	1.006	0.18	0.129	0.146
96	LTE Band 48	20M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	56640	3690	22.85	23.00	1.035	62.9	1.006	-0.03	1.21	1.260
	LTE Band 48	20M	QPSK	1	0	Back with Clip	0mm	Ant 8	DSI 1	56640	3690	22.85	23.00	1.035	62.9	1.006	0.02	1.12	1.166
	LTE Band 48	20M	QPSK	1	0	Back with Holster	0mm	Ant 9	DSI 1	55990	3625	22.26	23.00	1.186	62.9	1.006	0.02	0.323	0.385
	LTE Band 48	20M	QPSK	1	0	Back with Clip	15mm	Ant 9	DSI 1	55990	3625	22.26	23.00	1.186	62.9	1.006	0.11	0.268	0.320
97	LTE Band 53	10M	QPSK	1	0	Back with Holster	0mm	Ant 8	DSI 1	60198	2489.3	23.07	25.00	1.560	62.9	1.006	0.14	0.309	0.485
	LTE Band 53	10M	QPSK	1	0	Back with Clip	15mm	Ant 8	DSI 1	60198	2489.3	23.07	25.00	1.560	62.9	1.006	0.14	0.199	0.312

< 5G NR SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	507000	2535	24.37	25.00	1.156	-0.05	0.897	1.037
	FR1 n7	50M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	507000	2535	24.37	25.00	1.156	-0.03	0.781	0.903
	FR1 n7	50M	BPSK	1	1	Front with Holster	0mm	Ant 5	DSI 1	507000	2535	22.14	22.40	1.062	0.08	0.322	0.342
	FR1 n7	50M	BPSK	135	68	Front with Holster	0mm	Ant 5	DSI 1	507000	2535	22.17	22.40	1.054	0.01	0.292	0.308
98	FR1 n7	50M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	507000	2535	22.14	22.40	1.062	-0.04	1.15	1.221
	FR1 n7	50M	BPSK	135	68	Back with Holster	0mm	Ant 5	DSI 1	507000	2535	22.17	22.40	1.054	0.03	0.983	1.036
	FR1 n7	50M	BPSK	270	0	Back with Holster	0mm	Ant 5	DSI 1	507000	2535	22.05	22.40	1.084	-0.08	1.06	1.149
	FR1 n7	50M	BPSK	1	1	Back with Clip	15mm	Ant 5	DSI 1	507000	2535	22.14	22.40	1.062	-0.08	0.38	0.404
	FR1 n7	50M	BPSK	135	68	Back with Clip	15mm	Ant 5	DSI 1	507000	2535	22.17	22.40	1.054	0.1	0.39	0.411
99	FR1 n12	15M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	141500	707.5	24.28	25.00	1.180	-0.17	0.101	0.119
	FR1 n12	15M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	141500	707.5	24.28	25.00	1.180	0.12	0.091	0.107
100	FR1 n13	10M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	156400	782	24.04	25.00	1.247	-0.08	0.13	0.162
	FR1 n13	10M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	156400	782	24.04	25.00	1.247	0.03	0.121	0.151
101	FR1 n14	10M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	158600	793	23.93	25.00	1.279	0.04	0.192	0.246
	FR1 n14	10M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	158600	793	23.93	25.00	1.279	0.18	0.158	0.202
	FR1 n25	40M	BPSK	1	1	Back with Holster	0mm	Ant 1	DSI 1	376500	1882.5	22.20	22.70	1.122	0.16	0.152	0.171
	FR1 n25	40M	BPSK	1	1	Back with Clip	15mm	Ant 1	DSI 1	376500	1882.5	22.20	22.70	1.122	-0.07	0.344	0.386
102	FR1 n25	40M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	376500	1882.5	24.64	25.00	1.086	-0.12	0.724	0.786
	FR1 n25	40M	BPSK	1	1	Back with Clip	15mm	Ant 5	DSI 1	376500	1882.5	24.64	25.00	1.086	-0.1	0.666	0.723
103	FR1 n26	20M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	166300	831.5	23.95	25.00	1.274	0.02	0.225	0.287
	FR1 n26	20M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	166300	831.5	23.95	25.00	1.274	0.07	0.111	0.141
	FR1 n30	10M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	462000	2310	24.15	24.50	1.084	-0.1	0.63	0.683
104	FR1 n30	10M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	462000	2310	24.15	24.50	1.084	0.07	0.751	0.814
	FR1 n30	10M	BPSK	1	1	Front with Holster	0mm	Ant 5	DSI 1	462000	2310	24.16	24.50	1.081	-0.01	0.241	0.261
	FR1 n30	10M	BPSK	1	1	Back with Clip	15mm	Ant 5	DSI 1	462000	2310	24.16	24.50	1.081	0.01	0.197	0.213
	FR1 n66	40M	BPSK	1	1	Back with Holster	0mm	Ant 1	DSI 1	349000	1745	24.66	25.00	1.081	-0.15	0.414	0.448
	FR1 n66	40M	BPSK	1	1	Back with Clip	15mm	Ant 1	DSI 1	349000	1745	24.66	25.00	1.081	0	0.606	0.655
105	FR1 n66	40M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	349000	1745	23.76	24.10	1.081	-0.08	1.04	1.124
	FR1 n66	40M	BPSK	1	1	Back with Clip	15mm	Ant 5	DSI 1	349000	1745	23.76	24.10	1.081	0.19	0.495	0.535
	FR1 n70	15M	BPSK	1	1	Back with Holster	0mm	Ant 1	DSI 1	340500	1702.5	24.10	25.00	1.230	0.07	0.241	0.296
106	FR1 n70	15M	BPSK	1	1	Back with Clip	15mm	Ant 1	DSI 1	340500	1702.5	24.10	25.00	1.230	-0.08	0.428	0.526
	FR1 n71	20M	BPSK	1	1	Front with Holster	0mm	Ant 8	DSI 1	136100	680.5	24.01	25.50	1.409	-0.18	0.07	0.099
107	FR1 n71	20M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	136100	680.5	24.01	25.50	1.409	-0.18	0.098	0.138
	FR1 n41	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	518598	2592.99	22.71	24.10	1.377	0.03	0.405	0.558
	FR1 n41	100M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	518598	2592.99	22.71	24.10	1.377	-0.06	0.711	0.979
	FR1 n41	100M	BPSK	1	1	Front with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.82	23.00	1.042	-0.18	0.3	0.313



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108	FR1 n41	100M	BPSK	135	69	Front with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.67	23.00	1.079	0.1	0.275	0.297
	FR1 n41	100M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.82	23.00	1.042	0.04	1.24	1.292
	FR1 n41	100M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.82	23.00	1.042	0.04	1.2	1.250
	FR1 n41	100M	BPSK	135	69	Back with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.67	23.00	1.079	0.12	1	1.079
	FR1 n41	100M	BPSK	270	0	Back with Holster	0mm	Ant 5	DSI 1	518598	2592.99	22.45	23.00	1.135	0.08	0.984	1.117
	FR1 n41	100M	BPSK	1	1	Back with Clip	15mm	Ant 5	DSI 1	518598	2592.99	22.82	23.00	1.042	-0.17	0.387	0.403
	FR1 n41	100M	BPSK	135	69	Back with Clip	15mm	Ant 5	DSI 1	518598	2592.99	22.67	23.00	1.079	-0.03	0.325	0.351
	FR1 n41_HPUE	100M	BPSK	1	1	Back with Holster	0mm	Ant 5	DSI 1	518598	2592.99	25.23	26.00	1.194	0.14	1.06	1.266
	FR1 n41	100M	BPSK	1	1	Back with Holster	0mm	Ant 3	DSI 1	518598	2592.99	23.27	23.70	1.104	-0.14	0.439	0.485
	FR1 n41	100M	BPSK	1	1	Back with Clip	15mm	Ant 3	DSI 1	518598	2592.99	23.27	23.70	1.104	0.08	0.299	0.330
	FR1 n41	100M	BPSK	1	1	Back with Holster	0mm	Ant 4	DSI 1	518598	2592.99	22.77	23.00	1.054	0.1	0.079	0.083
	FR1 n41	100M	BPSK	1	1	Back with Clip	15mm	Ant 4	DSI 1	518598	2592.99	22.77	23.00	1.054	-0.17	0.113	0.119
	FR1 n48	40M	BPSK	1	1	Front with Holster	0mm	Ant 8	DSI 1	641666	3624.99	18.66	20.00	1.361	0.08	0.227	0.309
	FR1 n48	40M	BPSK	50	28	Front with Holster	0mm	Ant 8	DSI 1	641666	3624.99	18.62	20.00	1.374	0.01	0.216	0.297
	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	18.66	20.00	1.361	0.11	0.917	1.248
	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	638000	3570	18.60	20.00	1.380	0.03	0.782	1.079
	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	645332	3679.98	18.62	20.00	1.374	-0.08	0.899	1.235
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	18.62	20.00	1.374	-0.08	0.906	1.245
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 8	DSI 1	638000	3570	18.49	20.00	1.416	0.1	0.773	1.095
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 8	DSI 1	645332	3679.98	18.51	20.00	1.409	-0.18	0.878	1.237
	FR1 n48	40M	BPSK	100	0	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	18.62	20.00	1.374	0.1	0.901	1.238
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	18.66	20.00	1.361	0.12	0.567	0.772
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	638000	3570	18.60	20.00	1.380	0.08	0.485	0.669
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	645332	3679.98	18.62	20.00	1.374	-0.17	0.556	0.764
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	18.62	20.00	1.374	-0.03	0.538	0.739
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 8	DSI 1	638000	3570	18.49	20.00	1.416	0.14	0.459	0.650
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 8	DSI 1	645332	3679.98	18.51	20.00	1.409	0.11	0.528	0.744
	FR1 n48	40M	BPSK	100	0	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	18.62	20.00	1.374	-0.05	0.536	0.736
	FR1 n48	40M	BPSK	1	1	Front with Holster	0mm	Ant 9	DSI 1	638000	3570	21.76	21.90	1.033	0.18	0.201	0.208
	FR1 n48	40M	BPSK	50	28	Front with Holster	0mm	Ant 9	DSI 1	638000	3570	21.65	21.90	1.059	0.14	0.194	0.205
	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	638000	3570	21.76	21.90	1.033	-0.17	0.872	0.901
109	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	641666	3624.99	21.38	21.90	1.127	0.1	1.13	1.274
	FR1 n48	40M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	645332	3679.98	21.51	21.90	1.094	0.17	0.916	1.002
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 9	DSI 1	638000	3570	21.65	21.90	1.059	-0.05	0.934	0.989
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 9	DSI 1	641666	3624.99	21.27	21.90	1.156	0.01	1.06	1.225
	FR1 n48	40M	BPSK	50	28	Back with Holster	0mm	Ant 9	DSI 1	645332	3679.98	21.35	21.90	1.135	0.1	0.994	1.128
	FR1 n48	40M	BPSK	100	0	Back with Holster	0mm	Ant 9	DSI 1	638000	3570	21.44	21.90	1.112	-0.17	1.04	1.156
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	638000	3570	21.76	21.90	1.033	0.04	0.521	0.538
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	641666	3624.99	21.38	21.90	1.127	-0.01	0.675	0.761
	FR1 n48	40M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	645332	3679.98	21.51	21.90	1.094	-0.08	0.548	0.600
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 9	DSI 1	638000	3570	21.65	21.90	1.059	0.05	0.528	0.559
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 9	DSI 1	641666	3624.99	21.27	21.90	1.156	0.06	0.685	0.792
	FR1 n48	40M	BPSK	50	28	Back with Clip	15mm	Ant 9	DSI 1	645332	3679.98	21.35	21.90	1.135	-0.09	0.562	0.638
	FR1 n48	40M	BPSK	100	0	Back with Clip	15mm	Ant 9	DSI 1	638000	3570	21.44	21.90	1.112	-0.08	0.492	0.547
	FR1 n77 (27Q)	100M	BPSK	1	1	Front with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.50	20.20	1.175	0.13	0.357	0.419
	FR1 n77 (27Q)	100M	BPSK	135	69	Front with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.39	20.20	1.205	0.12	0.347	0.418
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.50	20.20	1.175	0.08	1.06	1.246
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.50	20.20	1.175	0.08	1.02	1.199
	FR1 n77 (27Q)	100M	BPSK	135	69	Back with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.39	20.20	1.205	0.03	1.03	1.241
	FR1 n77 (27Q)	100M	BPSK	270	0	Back with Holster	0mm	Ant 8	DSI 1	633332	3499.98	19.28	20.20	1.236	0.18	0.957	1.183
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	633332	3499.98	19.50	20.20	1.175	0.16	0.77	0.905
	FR1 n77 (27Q)	100M	BPSK	135	69	Back with Clip	15mm	Ant 8	DSI 1	633332	3499.98	19.39	20.20	1.205	-0.1	0.694	0.836
	FR1 n77 (27Q)	100M	BPSK	270	0	Back with Clip	15mm	Ant 8	DSI 1	633332	3499.98	19.28	20.20	1.236	0.14	0.654	0.808
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	633332	3499.98	22.45	23.20	1.189	0.07	1.03	1.225
	FR1 n77 (27Q)	100M	BPSK	1	1	Front with Holster	0mm	Ant 9	DSI 1	633332	3499.98	22.89	22.90	1.002	0.18	0.855	0.857



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	FR1 n77 (27Q)	100M	BPSK	135	69	Front with Holster	0mm	Ant 9	DSI 1	633332	3499.98	22.86	22.90	1.009	-0.1	0.47	0.474
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	633332	3499.98	22.89	22.90	1.002	0.03	1.25	1.253
	FR1 n77 (27Q)	100M	BPSK	135	69	Back with Holster	0mm	Ant 9	DSI 1	633332	3499.98	22.86	22.90	1.009	0.01	1.23	1.241
	FR1 n77 (27Q)	100M	BPSK	270	0	Back with Holster	0mm	Ant 9	DSI 1	633332	3499.98	22.85	22.90	1.012	-0.15	0.606	0.613
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	633332	3499.98	22.89	22.90	1.002	0.19	0.794	0.796
	FR1 n77 (27Q)	100M	BPSK	135	69	Back with Clip	15mm	Ant 9	DSI 1	633332	3499.98	22.86	22.90	1.009	0.07	0.761	0.768
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	633332	3499.98	25.51	25.90	1.094	-0.18	1.12	1.225
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Holster	0mm	Ant 3	DSI 1	633332	3499.98	20.73	22.10	1.371	0.12	0.078	0.107
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Clip	15mm	Ant 3	DSI 1	633332	3499.98	20.73	22.10	1.371	-0.06	0.095	0.130
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Holster	0mm	Ant 4	DSI 1	633332	3499.98	20.26	20.90	1.159	-0.11	0.258	0.299
	FR1 n77 (27Q)	100M	BPSK	1	1	Back with Clip	15mm	Ant 4	DSI 1	633332	3499.98	20.26	20.90	1.159	0.03	0.445	0.516
	FR1 n77/n78 (96)	100M	BPSK	1	1	Front with Holster	0mm	Ant 8	DSI 1	641666	3624.99	19.28	20.20	1.236	0.03	0.431	0.533
	FR1 n77/n78 (96)	100M	BPSK	135	69	Front with Holster	0mm	Ant 8	DSI 1	641666	3624.99	19.15	20.20	1.274	-0.15	0.342	0.436
110	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	19.28	20.20	1.236	-0.01	1.04	1.285
	FR1 n77/n78 (96)	100M	BPSK	135	69	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	19.15	20.20	1.274	-0.15	0.916	1.167
	FR1 n77/n78 (96)	100M	BPSK	270	0	Back with Holster	0mm	Ant 8	DSI 1	641666	3624.99	19.12	20.20	1.282	0.11	0.986	1.264
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	19.28	20.20	1.236	-0.08	0.619	0.765
	FR1 n77/n78 (96)	100M	BPSK	135	69	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	19.15	20.20	1.274	-0.17	0.781	0.995
	FR1 n77/n78 (96)	100M	BPSK	270	0	Back with Clip	15mm	Ant 8	DSI 1	641666	3624.99	19.12	20.20	1.282	0.12	0.775	0.994
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	641666	3624.99	20.26	22.00	1.493	0.03	0.76	1.135
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	641666	3624.99	20.26	22.00	1.493	0.02	0.444	0.663
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Holster	0mm	Ant 3	DSI 1	641666	3624.99	21.76	22.10	1.081	-0.01	0.403	0.436
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Clip	0mm	Ant 3	DSI 1	641666	3624.99	21.76	22.10	1.081	0.09	0.328	0.355
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Holster	0mm	Ant 4	DSI 1	641666	3624.99	20.70	20.90	1.047	0.12	0.259	0.271
	FR1 n77/n78 (96)	100M	BPSK	1	1	Back with Clip	15mm	Ant 4	DSI 1	641666	3624.99	20.70	20.90	1.047	-0.03	0.333	0.349
	FR1 n77 (27O)	100M	BPSK	1	1	Front with Holster	0mm	Ant 8	DSI 1	656000	3840	19.50	20.20	1.175	-0.08	0.342	0.402
	FR1 n77 (27O)	100M	BPSK	135	69	Front with Holster	0mm	Ant 8	DSI 1	656000	3840	19.41	20.20	1.199	-0.04	0.27	0.324
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	656000	3840	19.50	20.20	1.175	-0.14	0.833	0.979
	FR1 n77 (27O)	100M	BPSK	135	69	Back with Holster	0mm	Ant 8	DSI 1	656000	3840	19.41	20.20	1.199	-0.08	0.718	0.861
	FR1 n77 (27O)	100M	BPSK	270	0	Back with Holster	0mm	Ant 8	DSI 1	656000	3840	19.40	20.20	1.202	0.17	0.782	0.940
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Clip	15mm	Ant 8	DSI 1	656000	3840	19.50	20.20	1.175	0.18	0.23	0.270
	FR1 n77 (27O)	100M	BPSK	135	69	Back with Clip	15mm	Ant 8	DSI 1	656000	3840	19.41	20.20	1.199	-0.04	0.742	0.890
	FR1 n77 (27O)	100M	BPSK	270	0	Back with Clip	15mm	Ant 8	DSI 1	656000	3840	19.40	20.20	1.202	0.12	0.737	0.886
	FR1 n77 (27O)_HPUE	100M	BPSK	1	1	Back with Holster	0mm	Ant 8	DSI 1	656000	3840	22.49	23.20	1.178	-0.08	0.731	0.861
	FR1 n77 (27O)	100M	BPSK	1	1	Front with Holster	0mm	Ant 9	DSI 1	656000	3840	22.84	22.90	1.014	-0.13	0.786	0.797
	FR1 n77 (27O)	100M	BPSK	135	69	Front with Holster	0mm	Ant 9	DSI 1	656000	3840	22.61	22.90	1.069	-0.13	0.315	0.337
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Holster	0mm	Ant 9	DSI 1	656000	3840	22.84	22.90	1.014	-0.19	1.21	1.227
	FR1 n77 (27O)	100M	BPSK	135	69	Back with Holster	0mm	Ant 9	DSI 1	656000	3840	22.61	22.90	1.069	0.06	1.06	1.133
	FR1 n77 (27O)	100M	BPSK	270	0	Back with Holster	0mm	Ant 9	DSI 1	656000	3840	22.54	22.90	1.086	-0.03	1.04	1.129
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Clip	15mm	Ant 9	DSI 1	656000	3840	22.84	22.90	1.014	-0.03	0.786	0.797
	FR1 n77 (27O)	100M	BPSK	135	69	Back with Clip	15mm	Ant 9	DSI 1	656000	3840	22.61	22.90	1.069	0.08	0.908	0.971
	FR1 n77 (27O)	100M	BPSK	270	0	Back with Clip	15mm	Ant 9	DSI 1	656000	3840	22.61	22.90	1.069	0.08	0.905	0.967
	FR1 n77 (27O)_HPUE	100M	BPSK	1	1	Back with Holster	15mm	Ant 9	DSI 1	656000	3840	25.62	25.90	1.067	-0.07	0.962	1.026
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Holster	0mm	Ant 3	DSI 1	656000	3840	21.60	22.10	1.122	-0.11	0.741	0.831
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Clip	15mm	Ant 3	DSI 1	656000	3840	21.60	22.10	1.122	0.02	0.668	0.749
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Holster	0mm	Ant 4	DSI 1	656000	3840	20.52	20.90	1.091	-0.04	0.436	0.476
	FR1 n77 (27O)	100M	BPSK	1	1	Back with Clip	15mm	Ant 4	DSI 1	656000	3840	20.52	20.90	1.091	0.06	0.411	0.448
	FR1 n53	10M	BPSK	1	22	Back with Holster	0mm	Ant 8	DSI 1	497860	2489.3	23.58	24.00	1.102	0.09	0.546	0.602
111	FR1 n53	10M	BPSK	1	22	Back with Clip	15mm	Ant 8	DSI 1	497860	2489.3	23.58	24.00	1.102	-0.08	0.909	1.002

< WLAN SAR >

Plot No	Band	Test Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
112	2.4GHz WLAN	802.11b 1Mbps	Back with Holster	0mm	Ant MIMO(6)	DSI 1	11	2462	21.60	22.10	1.122	86.1	1.162	0.07	0.228	0.357
	2.4GHz WLAN	802.11b 1Mbps	Back with Clip	15mm	Ant MIMO(6)	DSI 1	11	2462	20.80	22.10	1.349	86.1	1.162	0.03	0.09	0.141
	5.3GHz WLAN	802.11a 6Mbps	Front with Holster	0mm	Ant MIMO(7)	DSI 1	56	5280	19.70	20.00	1.072	85.8	1.165	0.12	0.166	0.207
113	5.3GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	56	5280	19.70	20.00	1.072	85.8	1.165	-0.11	0.959	1.198
	5.3GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	56	5280	19.70	20.00	1.072	85.8	1.165	-0.11	0.951	1.188
	5.3GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	52	5260	19.00	20.00	1.259	85.8	1.165	-0.04	0.81	1.188
	5.3GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	60	5300	19.60	20.00	1.096	85.8	1.165	-0.15	0.936	1.195
	5.3GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	64	5320	19.00	19.50	1.122	85.8	1.165	0.11	0.846	1.106
	5.3GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	56	5280	19.70	20.00	1.072	85.8	1.165	-0.02	0.914	1.141
	5.3GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	52	5260	19.00	20.00	1.259	85.8	1.165	0.1	0.8	1.173
	5.3GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	60	5300	19.60	20.00	1.096	85.8	1.165	0.04	0.921	1.176
	5.3GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	64	5320	19.00	19.50	1.122	85.8	1.165	0.13	0.883	1.154
114	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	124	5620	20.40	20.50	1.023	85.8	1.165	-0.07	0.873	1.040
	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	100	5500	19.40	19.50	1.023	85.8	1.165	0.08	0.822	0.980
	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	116	5580	19.70	20.00	1.072	85.8	1.165	0.01	0.825	1.030
	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	132	5660	20.40	20.50	1.023	85.8	1.165	0.03	0.864	1.030
	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	140	5700	20.40	20.50	1.023	85.8	1.165	-0.08	0.864	1.024
	5.5GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	144	5720	20.20	20.50	1.072	85.8	1.165	-0.08	0.822	1.027
	5.5GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	124	5620	20.40	20.50	1.023	85.8	1.165	0.1	0.843	1.005
115	5.8GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(6)	DSI 1	149	5745	20.00	20.80	1.202	85.8	1.165	-0.17	0.92	1.288
	5.8GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(6)	DSI 1	157	5785	19.80	20.60	1.202	85.8	1.165	-0.18	0.762	1.067
	5.8GHz WLAN	802.11a 6Mbps	Back with Holster	0mm	Ant MIMO(6)	DSI 1	165	5825	19.30	20.60	1.349	85.8	1.165	-0.11	0.73	1.147
	5.8GHz WLAN	802.11a 6Mbps	Back with Clip	15mm	Ant MIMO(6)	DSI 1	149	5745	20.00	20.60	1.148	85.8	1.165	-0.16	0.762	1.019
116	6GHz WLAN	802.11be-EHT320 MCS0	Back with Holster	0mm	Ant MIMO(6)	DSI 1	63	6265	13.85	14.00	1.035	85.6	1.168	0.11	0.392	0.474
	6GHz WLAN	802.11be-EHT320 MCS0	Back with Clip	15mm	Ant MIMO(6)	DSI 1	63	6265	13.85	14.00	1.035	85.6	1.168	0.08	0.291	0.352

< Bluetooth SAR >

Plot No	Band	Test Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
117	Bluetooth	1Mbps	Back with Holster	0mm	Ant MIMO(7)	DSI 1	39	2441	15.90	16.00	1.023	76.9	1.083	0.09	0.147	0.163
	Bluetooth	1Mbps	Back with Clip	15mm	Ant MIMO(7)	DSI 1	39	2441	15.90	16.00	1.023	76.9	1.083	0.03	0.14	0.155

< RFID SAR >

Plot No	Band	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	RFID	Front with Holster	0mm	Ant 8	DSI 1	0	927.25	26.54	27.00	1.112	100.0	1.000	-0.08	0.506	0.563
118	RFID	Back with Clip	15mm	Ant 8	DSI 1	0	927.25	26.54	27.00	1.112	100.0	1.000	-0.02	0.651	0.724

14.4 Product Specific SAR

< GSM SAR >

Plot No	Band	Test Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
119	GSM1900	GPRS 3 Tx slots	Right Edge	0mm	Ant 1	DSI 4	810	1909.8	26.58	27.70	1.294	0.02	1.31	1.695

< WCDMA SAR >

Plot No	Band	Test Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
120	WCDMA II	RMC 12.2Kbps	Right Edge	0mm	Ant 1	DSI 4	9400	1880	22.45	23.40	1.245	-0.01	1.67	2.079
	WCDMA II	RMC 12.2Kbps	Right Edge	0mm	Ant 1	DSI 4	9262	1852.4	22.55	23.40	1.216	0.05	1.66	2.018
	WCDMA II	RMC 12.2Kbps	Right Edge	0mm	Ant 1	DSI 4	9538	1907.6	22.28	23.40	1.294	0.16	1.58	2.050

< LTE SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
121	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 8	DSI 4	21350	2560	23.66	24.00	1.081	-0.1	0.623	0.673
122	LTE Band 25	20M	QPSK	1	0	Right Edge	0mm	Ant 1	DSI 4	26340	1880	21.64	22.70	1.276	-0.01	1.43	1.825
123	LTE Band 30	10M	QPSK	1	0	Back	0mm	Ant 8	DSI 4	27710	2310	23.45	24.30	1.216	-0.03	0.956	1.162
124	LTE Band 66	20M	QPSK	1	0	Bottom Edge	0mm	Ant 5	DSI 4	132572	1770	23.96	25.00	1.271	-0.08	1.13	1.436

< 5G NR SAR >

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
125	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 8	DSI 4	507000	2535	24.37	25.00	1.156	-0.02	0.959	1.109
126	FR1 n25	40M	BPSK	1	1	Right Edge	0mm	Ant 1	DSI 4	376500	1882.5	22.20	22.70	1.122	-0.11	1.9	2.132
	FR1 n25	40M	BPSK	1	1	Bottom Edge	0mm	Ant 5	DSI 4	376500	1882.5	24.64	25.00	1.086	-0.08	1.47	1.596
127	FR1 n30	10M	BPSK	1	1	Back	0mm	Ant 8	DSI 4	462000	2310	24.15	24.50	1.084	0.06	1.38	1.496
128	FR1 n66	40M	BPSK	1	1	Bottom Edge	0mm	Ant 5	DSI 4	349000	1745	23.76	24.10	1.081	-0.06	1.66	1.794
129	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 8	DSI 4	518598	2592.99	22.71	24.10	1.377	0.06	0.501	0.690
130	FR1 n48	40M	BPSK	1	1	Back	0mm	Ant 8	DSI 4	645332	3679.98	21.40	23.00	1.445	-0.02	0.722	1.043
131	FR1 n77 (27Q)	100M	BPSK	1	1	Left Edge	0mm	Ant 4	DSI 4	633332	3499.98	20.61	20.90	1.069	-0.14	3.26	3.485
	FR1 n77/n78 (96)	100M	BPSK	1	1	Left Edge	0mm	Ant 4	DSI 4	641666	3624.99	19.92	20.60	1.169	-0.14	2.4	2.806
	FR1 n77 (27O)	100M	BPSK	1	1	Right Edge	0mm	Ant 3	DSI 4	656000	3840	21.59	22.10	1.125	0.01	1.45	1.631
	FR1 n77 (27O)	100M	BPSK	1	1	Left Edge	0mm	Ant 4	DSI 4	656000	3840	20.87	20.90	1.007	-0.14	1.72	1.732

< WLAN SAR >

Plot No	Band	Test Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
132	2.4GHz WLAN	802.11b 1Mbps	Back	0mm	Ant MIMO(6)	DSI 4	11	2462	21.30	23.00	1.479	86.1	1.162	0.08	0.653	1.122
133	5.3GHz WLAN	802.11ac-VHT20 MCS0	Left Edge	0mm	Ant MIMO(7)	DSI 4	52	5260	20.10	20.50	1.096	85.9	1.164	0	0.907	1.157
134	5.5GHz WLAN	802.11a 6Mbps	Right Edge	0mm	Ant MIMO(7)	DSI 4	124	5620	20.40	20.50	1.023	85.8	1.165	0.12	0.951	1.133
135	5.8GHz WLAN	802.11a 6Mbps	Right Edge	0mm	Ant MIMO(6)	DSI 4	149	5745	20.80	21.50	1.175	85.8	1.165	-0.14	1.16	1.588
136	6GHz WLAN	802.11be-EHT320 MCS0	Right Edge	0mm	Ant MIMO(6)	DSI 4	63	6265	13.85	14.00	1.035	85.6	1.168	-0.05	0.284	0.343

**< NFC SAR >**

Plot No	Band	TestMode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
137	NFC	ASK	Back	0mm	NFC	NFC	0	13.56	-0.02	0.036	0.036

14.5 6GHz PD Test Result

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Normal psPD (W/m^2)	Scaled Normal psPD (W/m^2)	Total psPD (W/m^2)	Scaled Total psPD (W/m^2)
138	WLAN6GHz	802.11be-EHT320 MCS0	Right Edge	2mm	Ant 7+6(6)	63	6265	13.65	14.00	1.084	85.59	1.168	-0.01	3.22	6.33	3.62	7.12

14.6 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. Based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with <10% discrepancy between power classes and all reported SAR are <1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

< Head condition >

	LTE Band 41_Ant 8	LTE Band 41_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.5	24.1
Reported 1g SAR (W/kg)	1.256	1.13
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	112.57	111.30
Linearity SAR(W/kg)	1.24	
% deviation from expected linearity		-9.01%

	FR1 n41_Ant 8	FR1 n41_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.9	26
Reported 1g SAR (W/kg)	1.193	0.938
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	245.47	199.05
Linearity SAR(W/kg)	0.97	
% deviation from expected linearity		-3.04%

	FR1 n77_Ant 9 27Q	FR1 n77_Ant 9 27Q
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.1	26
Reported 1g SAR (W/kg)	1.006	0.898
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	204.17	199.05
Linearity SAR(W/kg)	0.98	
% deviation from expected linearity		-8.44%

	FR1 n77_Ant 9 192	FR1 n77_Ant 9 192
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.1	26
Reported 1g SAR (W/kg)	1.217	1.09
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	204.17	199.05
Linearity SAR(W/kg)	1.19	
% deviation from expected linearity		-8.13%

**< Hotspot condition >**

	FR1 n41_Ant 8	FR1 n41_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.5	26
Reported 1g SAR (W/kg)	1.25	1.086
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	199.05
Linearity SAR(W/kg)	1.11	
% deviation from expected linearity		-2.29%

	FR1 n77_Ant 9 27Q	FR1 n77_Ant 9 27Q
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.6	22.6
Reported 1g SAR (W/kg)	1.27	1.22
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	91.20	90.99
Linearity SAR(W/kg)	1.27	
% deviation from expected linearity		-3.71%

	FR1 n77_Ant 8 198	FR1 n77_Ant 8 198
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.2	23.2
Reported 1g SAR (W/kg)	1.07	1.05
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	104.71	104.46
Linearity SAR(W/kg)	1.07	
% deviation from expected linearity		-1.64%

**< Body-worn condition >**

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23	26
Reported 1g SAR (W/kg)	1.29	1.27
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR(W/kg)	1.29	
% deviation from expected linearity		-1.32%

	FR1 n77_Ant 9 27Q	FR1 n77_Ant 9 27Q
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.9	25.9
Reported 1g SAR (W/kg)	1.25	1.23
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	194.98	194.52
Linearity SAR(W/kg)	1.25	
% deviation from expected linearity		-1.37%

	FR1 n77_Ant 8 192	FR1 n77_Ant 8 192
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.2	23.2
Reported 1g SAR (W/kg)	1.28	1.17
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	104.71	104.46
Linearity SAR(W/kg)	1.28	
% deviation from expected linearity		-8.38%

15. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head ⁽¹⁾	Hotspot	Body-worn	Product Specific
1.	RFID + WLAN2.4GHz		Yes	Yes	Yes
2.	RFID + WLAN5GHz+ Bluetooth		Yes	Yes	Yes
3.	RFID + WLAN6GHz+ Bluetooth		Yes	Yes	Yes
4.	RFID + WLAN2.4GHz+ WLAN5GHz		Yes	Yes	Yes
5.	RFID + WLAN2.4GHz+ WLAN6GHz		Yes	Yes	Yes
6.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
7.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
8.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN2.4GHz+ WLAN5GHz	Yes	Yes	Yes	Yes
10.	WWAN + WLAN2.4GHz+ WLAN6GHz	Yes	Yes	Yes	Yes
11.	RFID + WLAN2.4GHz + NFC		Yes	Yes	Yes
12.	RFID + WLAN5GHz+ Bluetooth + NFC		Yes	Yes	Yes
13.	RFID + WLAN6GHz+ Bluetooth + NFC		Yes	Yes	Yes
14.	RFID + WLAN2.4GHz+ WLAN5GHz + NFC		Yes	Yes	Yes
15.	RFID + WLAN2.4GHz+ WLAN6GHz + NFC		Yes	Yes	Yes
16.	WWAN + WLAN2.4GHz + NFC		Yes	Yes	Yes
17.	WWAN + WLAN5GHz+ Bluetooth + NFC		Yes	Yes	Yes
18.	WWAN + WLAN6GHz+ Bluetooth + NFC		Yes	Yes	Yes
19.	WWAN + WLAN2.4GHz+ WLAN5GHz + NFC		Yes	Yes	Yes
20.	WWAN + WLAN2.4GHz+ WLAN6GHz + NFC		Yes	Yes	Yes
21.	RFID + WLAN5GHz+ WLAN6GHz + Bluetooth		Yes	Yes	Yes
22.	RFID + WLAN5GHz+ WLAN6GHz		Yes	Yes	
23.	WWAN + WLAN5GHz+ WLAN6GHz + Bluetooth	Yes	Yes	Yes	
24.	WWAN + WLAN5GHz+ WLAN6GHz	Yes	Yes	Yes	
25.	WLAN5GHz+ WLAN6GHz	Yes	Yes	Yes	

General Note:

- The Sim-Tx analysis was selected worst results between original SAR Report No. FA5O3114B and this report. to be evaluation.
- When RFID is active will not operate on head exposure condition with other transmitters.
- The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G technologies and WLAN/BT technologies. These modems are always enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure follows the requirement. Smart Transmit algorithm controls the total RF exposure from all WWAN/WLAN/BT to not exceed limit and each antenna group has controlled the total RF exposure from all transmitter to not exceed limit. Therefore, in Part.1 report, it is evaluated whether the sum of the groups of each antenna does not exceed limit or spatial separation is applied. In addition, each antenna needs to satisfy simultaneous transmission analysis with External radios (NFC) in this report at extremity exposure condition.
- The device 2.4GHz support hotspot operation via 5/6GHz receive signal.
- The worst case reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1g 1.6W/kg or 10g 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR, ≤ 0.1 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg or 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 15.5

**Qualcomm Smart Transmit Simultaneous Transmission Guidance**

Based on Qualcomm Smart Transmit simultaneous transmission analysis guidance, If all radios are selected to be under Smart Transmit control in EFS version 19 (or higher), then RF exposure from radios are managed by Smart Transmit in the same way. No additional TER analysis is needed

Smart Transmit current implementation assumes hotspots from all active radios are collocated. Therefore, for a total of 100% exposure margin, if primary radio uses x%, then the exposure margin left for secondary radio(s) is capped to (100-x)%. Thus, the compliance equation for simultaneous active radios, such as follow,

$$x\% * A + (100-x)\% * B \leq 1.0$$

where, A is normalized time-averaged SAR exposure corresponding to “maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit}” from primary radio, and $A \leq 1.0$; B for secondary radio(s) is

(for legacy radio or sub6 NR): normalized time-averaged SAR exposure corresponding to “maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit }

and $B \leq 1.0$. As can be seen, A and B by definition is the exposure corresponding to “maximum of {minimum [EFS Plimit + device uncertainty; NV setting Pmax + device uncertainty]; EFS Plimit}”, and it is NOT defined as reported exposure

The total RF exposure in this simultaneous transmission scenario is controlled and managed within Smart Transmit operation, and the compliance is demonstrated in Part 2 test.

This device supports two sub6 AG: AG0 and AG1, the detailed please refer to the below table:

Antenna Group 0 (AG0)	WWAN/RFID Ant 8, 6, 1, 9, 10, 4, 3, WLAN/BT Ant 6, 7,
Antenna Group 1 (AG1)	WWAN Ant 5, 4, 3

Note: Ant4 and Ant3 as shared antennas (sAnt) among AG0 and AG1.

The conditions are verified through the following criterias:

i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at *Plimit* for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.

1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum *reported SAR at Plimit* out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: $[\text{max.SAR.AG0} + \text{max.SAR.AG1}] \leq 1.6$ (for 1g, or 4.0 for 10g).

ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at *Plimit* out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:

- SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.
- Obtain combined SAR per AG: Obtain the worst-case conservative combined SAR and its peak location for each AG.
- Use the ‘closest’ peak location out of all antennas of AGj to evaluate SPLSR with other AGs in the configuration. Note, by ‘closest’, select the peak location out of all antennas (€ AGj) that is closest to the peak location of other AG where SPLSR is evaluated.

iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: $\{\text{max.SAR.AG0} + \text{worst-case reported SAR}\} \leq 1.6$ and $\{\text{max.SAR.AG1} + \text{worst-case reported SAR}\} \leq 1.6$ for compliance demonstration (for 1g, or 4.0 for 10g).

15.1 Head Exposure Conditions

Area Num	WWAN1		WWAN2		Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)	1+2 SPLSR	1+2 Case No.
						WWAN1 1g SAR (W/kg)	WWAN2 1g SAR (W/kg)			
1	All	Ant 5	All	Ant 8	Right Cheek at 0mm	0.317	1.283	1.600	0.020	Case 20
					Right Tilted at 0mm	0.206	1.152	1.358		
					Left Cheek at 0mm	0.353	0.986	1.339		
					Left Tilted at 0mm	0.167	0.814	0.981		
2	All	Ant 5	All	Ant 1	Right Cheek at 0mm	0.317	0.455	0.772		
					Right Tilted at 0mm	0.206	0.362	0.568		
					Left Cheek at 0mm	0.353	1.146	1.499		
					Left Tilted at 0mm	0.167	0.301	0.468		
4	All	Ant 5	All	Ant 9	Right Cheek at 0mm	0.317	0.637	0.954		
					Right Tilted at 0mm	0.206	0.606	0.812		
					Left Cheek at 0mm	0.353	1.223	1.576		
					Left Tilted at 0mm	0.167	0.749	0.916		

15.2 Hotspot Exposure Conditions

Area Num	WWAN1		WWAN2		Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)	1+2 SPLSR	1+2 Case No.
						WWAN1 1g SAR (W/kg)	WWAN2 1g SAR (W/kg)			
1	All	Ant 5	All	Ant 8	Front at 10mm	0.739	0.851	1.590		
					Back at 10mm	1.241	1.292	2.533	0.030	Case 22
					Left Edge at 10mm		0.787	0.787		
					Right Edge at 10mm	0.356		0.356		
					Top Edge at 10mm		1.181	1.181		
					Bottom Edge at 25mm	0.380		0.380		
					Bottom Edge at 10mm	1.295		1.295		
2	All	Ant 5	All	Ant 1	Front at 10mm	0.739	0.248	0.987		
					Back at 10mm	1.241	1.060	2.301	0.020	Case 24
					Left Edge at 10mm			0.000		
					Right Edge at 10mm	0.356	1.290	1.646	0.030	Case 25
					Top Edge at 10mm		0.292	0.292		
					Bottom Edge at 25mm	0.380		0.380		
4	All	Ant 5	All	Ant 9	Bottom Edge at 10mm	1.295		1.295		
					Front at 10mm	0.739	0.421	1.160		
					Back at 10mm	1.241	1.274	2.515	0.020	Case 26
					Left Edge at 10mm			0.000		
					Right Edge at 10mm	0.356	0.300	0.656		
					Top Edge at 10mm		0.542	0.542		
					Bottom Edge at 25mm	0.380		0.380		
					Bottom Edge at 10mm	1.295		1.295		

**15.3 Body-Worn Accessory Exposure Conditions**

Area Num	WWAN1		WWAN2		Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)	1+2 SPLSR	1+2 Case No.
						WWAN1	WWAN2			
						1g SAR (W/kg)	1g SAR (W/kg)			
1	All	Ant 5	All	Ant 8	Front with Holster at 0mm	0.410	1.003	1.413		
					Back with Holster at 0mm	1.292	1.285	2.577	0.030	Case 39
					Back with Clip 15mm	0.412	1.002	1.414		
2	All	Ant 5	All	Ant 1	Front with Holster at 0mm	0.410	0.185	0.595		
					Back with Holster at 0mm	1.292	0.399	1.691		
					Back with Clip 15mm	0.412	0.832	1.244		
4	All	Ant 5	All	Ant 9	Front with Holster at 0mm	0.410	0.857	1.267		
					Back with Holster at 0mm	1.292	1.274	2.566	0.020	Case 40
					Back with Clip 15mm	0.412	0.971	1.383		

15.4 Product Specific Exposure Conditions

Area Num	WWAN1		WWAN2		Exposure Position	1	2	1+2+9 Summed 10g SAR (W/kg)
						WWAN1	WWAN2	
						10g SAR (W/kg)	10g SAR (W/kg)	
1	All	Ant 5	All	Ant 1	Front at 0mm			0.020
					Back at 0mm			0.046
					Left Edge at 0mm			0.015
					Right Edge at 0mm		3.457	3.470
					Top Edge at 0mm			0.001
					Bottom Edge at 0mm	3.466		3.467
2	All	Ant 5	All	Ant 8	Front at 0mm			0.020
					Back at 0mm		3.484	3.530
					Left Edge at 0mm			0.015
					Right Edge at 0mm			0.013
					Top Edge at 0mm			0.001
					Bottom Edge at 0mm	3.466		3.467

15.5 SPLSR Evaluation and Analysis

General Note:

1. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
2. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 20	Max WWAN Ant 5	Right Cheek at 0mm	0.317	0	53.9	-248.2	-174.1	85.1	1.60	0.02	Not required
	Max WWAN Ant 8		1.283	0	14.7	-323.7	-174.2				
Case 22	MAX WWAN Ant 5	Back at 10mm	1.241	10	-14.4	-79.2	-207	122.5	2.53	0.03	Not required
	MAX WWAN Ant 8		1.292	10	6.5	41.5	-207				
Case 24	MAX WWAN Ant 5	Back at 10mm	1.241	10	-14.4	-79.2	-0.85	152.5	2.30	0.02	Not required
	MAX WWAN Ant 1		1.06	10	-14.9	73.3	-0.87				
Case 25	Max WWAN Ant 5	Right Edge at 10mm	0.356	10	-26.4	25.4	-207.0	66.4	1.65	0.03	Not required
	Max WWAN Ant 1		1.290	10	-31.3	-40.8	-207.0				
Case 26	MAX WWAN Ant 5	Back at 10mm	1.241	10	-14.4	-79.2	-0.85	156.4	2.30	0.02	Not required
	MAX WWAN Ant 9		1.06	10	-22.6	77	-0.87				
Case 50	MAX WWAN Ant 5	Back with Holster at 0mm	1.292	0	-10.2	-80.6	-207	244.2	1.69	0.01	Not required
	MAX WWAN Ant 1		0.399	0	-43.5	46	-0.87				
Case 40	MAX WWAN Ant 5	Back with Holster at 0mm	1.292	0	-10.2	-80.6	-0.86	168.6	2.57	0.02	Not required
	MAX WWAN Ant 9		1.274	0	-11	88	-0.27				
Case 39	MAX WWAN Ant 5	Back with Holster at 0mm	1.292	0	-10.2	-80.6	-0.86	164.4	2.58	0.03	Not required
	MAX WWAN Ant 8		1.285	0	12.6	82.2	1.3				

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16. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

17. References

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