

Grip Sensor Power Verification

This device has five proximity sensors to reduce the output power for certain exposure scenarios. ECI #0 is configured as the free-state (grip sensors are not triggered), and ECI #19/20/21/22/23 are configured when the Grip #2/3/1/4/5 sensors are triggered, respectively. The table below shows the exposure scenarios according to the grip sensor states and their priority.

Bands	Antenna	Exposure Scenario					Grip Sensor Priority					
							ECI #19 (Grip #2)	ECI #20 (Grip #3)	ECI #21 (Grip #1)	ECI #22 (Grip #4)	ECI #23 (Grip #5)	ECI #0 (Free)
WCDMA5, LTE B12/13/14/71/5/26, NR n12/14/71/5/26	Main1	Grip #2					1					0
WCDMA4/2, LTE B4/66/2/25	Main1	Grip #2	Grip #3				1	2				0
LTE B30, NR n30	Main1	Grip #2					1					0
LTE B7/38/41, NR n7	Main1	Grip #2	Grip #3				1	2				0
NR n38/41	Main1	Grip #2					1					0
LTE B12/13/14/71/5/26	Sub1	Grip #5									1	0
NR n77/78	Main2	Grip #4								1		0
WiFi 2.4GHz	SISO1	Grip #1							1			0
WiFi 2.4GHz	SISO2	Grip #3						1				0
WiFi 5GHz	SISO1	Grip #1							1			0
WiFi 5GHz	SISO2	Grip #3						1				0
WiFi 6GHz	SISO1	Grip #1							1			0
WiFi 6GHz	SISO2	Grip #3						1				0
BT	SISO1	Grip #1							1			0
BT	SISO2	Grip #3						1				0

1. Grip Sensor – Grip #2

1.1 Grip #2 Rear

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																									
distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
WCDMA 5 Main1	24.1	24.1	24.1	24.2	24.2	24.2	24.2	14.0	24.2	24.2	24.2	24.3	24.1	14.0	14.2	14.2	14.2	14.0	14.1	14.2	14.2	14.1	14.0	14.1	14.1
WCDMA 4 Main1	23.9	24.0	23.9	24.1	23.9	24.1	24.0	12.5	23.9	24.1	24.1	23.9	23.9	12.5	12.3	12.3	12.5	12.5	12.4	12.3	12.3	12.3	12.3	12.5	12.5
WCDMA 2 Main1	23.8	24.0	24.0	24.0	23.8	24.0	23.8	11.9	24.0	23.8	23.8	23.8	24.0	11.8	11.9	11.9	11.9	11.9	11.8	11.8	11.9	11.8	11.8	11.8	11.9
LTE Band 12 Main1	24.0	23.9	23.8	23.9	23.7	23.9	23.8	14.5	23.8	23.8	23.9	23.9	23.9	14.3	14.5	14.6	14.5	14.6	14.6	14.6	14.4	14.5	14.4	14.4	14.6
LTE Band 26 Main1	24.0	24.1	24.1	24.0	24.0	23.9	24.0	15.1	24.0	24.0	24.2	23.9	24.2	15.0	15.0	15.1	15.2	15.1	15.2	15.2	15.0	15.2	15.1	15.0	15.2
LTE Band 66 Main1	24.2	24.1	24.1	24.2	24.2	24.1	24.3	12.2	24.1	24.0	24.1	24.2	24.2	12.1	12.2	12.1	12.2	12.3	12.3	12.2	12.3	12.2	12.1	12.3	12.2
LTE Band 25 Main1	24.3	24.3	24.4	24.1	24.1	24.4	24.1	12.7	24.3	24.3	24.1	24.3	24.3	12.7	12.7	12.5	12.7	12.7	12.6	12.7	12.5	12.5	12.5	12.7	12.7
LTE Band 30 Main1	23.2	23.2	23.4	23.3	23.2	23.4	23.4	11.2	23.4	23.2	23.4	23.3	23.2	11.0	11.0	11.0	11.0	11.2	11.1	11.0	11.1	11.1	11.2	11.1	11.1
LTE Band 7 Main1	23.8	23.9	23.9	23.8	23.9	23.7	23.7	10.4	23.9	23.7	23.8	23.8	23.8	10.4	10.3	10.2	10.4	10.3	10.5	10.3	10.4	10.4	10.3	10.4	10.3
NR Band n12 Main1	23.9	23.9	23.8	24.0	23.9	24.0	24.0	14.3	23.8	23.9	24.0	24.0	24.0	14.4	14.3	14.2	14.5	14.5	14.3	14.4	14.5	14.4	14.4	14.3	14.3
NR Band n26 Main1	23.9	24.1	24.0	24.0	24.1	24.1	24.0	15.6	24.1	23.9	23.9	24.0	23.9	15.4	15.6	15.4	15.5	15.5	15.6	15.5	15.5	15.5	15.6	15.5	15.6
NR Band n66 Main1	24.3	24.2	24.1	24.2	24.2	24.3	24.1	12.2	24.2	24.2	24.3	24.3	24.2	12.2	12.3	12.0	12.1	12.2	12.3	12.0	12.0	12.2	12.2	12.2	12.3
NR Band n25 Main1	24.1	23.9	23.9	24.1	24.1	24.1	23.9	12.4	23.9	23.8	23.9	23.9	24.0	12.2	12.3	12.5	12.4	12.4	12.3	12.3	12.4	12.3	12.3	12.3	12.4
NR Band n30 Main1	22.9	22.8	22.9	22.9	22.9	22.7	22.8	11.0	22.8	22.9	22.9	23.0	22.9	11.1	10.9	11.0	11.0	11.1	10.9	11.1	11.1	10.9	11.1	10.9	11.1
NR Band n7 Main1	24.1	24.0	24.0	24.0	24.1	24.1	24.1	10.7	24.2	24.2	24.0	24.2	24.3	10.6	10.5	10.7	10.6	10.5	10.7	10.5	10.8	10.6	10.7	10.7	10.6

KDB 616217 D04 6.2.f															
distance [mm]	21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	33 mm	36 mm	39 mm
WCDMA 5 Main1	14.1	14.2	14.1	14.2	14.0	14.1	14.1	14.1	24.2	24.1	24.1	24.1	24.1	24.2	24.1
WCDMA 4 Main1	12.3	12.4	12.5	12.5	12.3	12.4	12.5	12.5	23.9	24.1	24.1	23.9	24.0	24.0	24.0
WCDMA 2 Main1	11.9	11.8	11.8	11.9	11.9	11.7	11.7	11.9	23.9	23.9	24.0	23.8	24.0	23.9	23.8
LTE Band 12 Main1	14.4	14.6	14.6	14.5	14.3	14.5	14.3	14.4	24.0	24.0	23.9	23.7	23.8	23.7	23.9
LTE Band 26 Main1	15.1	15.2	15.1	15.2	15.2	15.1	15.0	15.0	24.1	24.0	24.1	24.1	24.1	24.1	24.1
LTE Band 66 Main1	12.3	12.3	12.2	12.3	12.2	12.1	12.3	12.3	24.2	24.1	24.1	24.0	24.2	24.1	24.1
LTE Band 25 Main1	12.8	12.8	12.6	12.5	12.5	12.5	12.7	12.7	24.2	24.4	24.3	24.3	24.3	24.3	24.2
LTE Band 30 Main1	11.0	11.1	11.0	11.1	11.0	11.1	11.1	11.1	23.3	23.3	23.2	23.4	23.3	23.3	23.2
LTE Band 7 Main1	10.5	10.3	10.4	10.5	10.3	10.4	10.4	10.4	23.9	23.8	23.8	23.8	24.0	23.9	23.9
NR Band n12 Main1	14.4	14.5	14.3	14.4	14.5	14.4	14.5	14.3	23.9	23.9	23.9	23.9	24.0	23.8	24.0
NR Band n26 Main1	15.5	15.6	15.5	15.6	15.4	15.4	15.5	15.4	24.1	24.1	24.2	23.9	24.0	24.0	24.1
NR Band n66 Main1	12.2	12.2	12.1	12.1	12.1	12.1	12.0	12.2	24.1	24.1	24.2	24.2	24.1	24.2	24.3
NR Band n25 Main1	12.4	12.3	12.5	12.5	12.4	12.4	12.4	12.5	24.1	23.9	24.0	24.0	24.0	24.1	24.1
NR Band n30 Main1	10.9	10.9	11.0	11.0	10.9	11.0	11.1	11.1	22.8	23.0	22.9	22.8	22.7	23.0	22.8
NR Band n7 Main1	10.7	10.7	10.6	10.7	10.6	10.8	10.7	10.6	24.1	24.1	24.1	24.0	24.3	24.2	24.1

1.2 Grip #2 Top

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																									
distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
WCDMA 5 Main1	24.1	24.3	24.1	24.2	24.2	24.1	24.3	14.1	24.1	24.1	24.1	24.1	24.1	24.2	14.2	14.2	14.1	14.0	14.2	14.2	14.0	14.2	14.1	14.1	14.2
WCDMA 4 Main1	23.9	23.9	23.9	23.9	24.0	23.9	24.0	12.5	24.1	24.0	24.0	23.9	24.1	12.5	12.5	12.5	12.5	12.3	12.5	12.3	12.3	12.4	12.3	12.3	12.3
WCDMA 2 Main1	24.0	24.0	23.8	23.8	23.9	23.8	23.8	11.8	23.8	23.9	24.0	23.8	24.0	11.9	11.7	11.9	11.9	11.8	11.9	11.7	11.7	11.9	11.9	11.9	11.9
LTE Band 12 Main1	23.7	23.8	23.9	23.9	23.8	23.7	23.9	14.4	23.8	23.8	24.0	23.7	23.9	14.4	14.6	14.4	14.5	14.6	14.6	14.6	14.6	14.4	14.4	14.4	14.6
LTE Band 26 Main1	24.0	23.9	24.0	24.2	24.2	24.1	24.2	15.2	24.0	24.0	24.2	24.1	24.0	15.2	15.2	15.1	15.2	15.1	15.0	15.1	15.0	15.2	15.0	15.1	15.1
LTE Band 66 Main1	24.0	24.0	24.2	24.2	24.2	24.1	24.1	12.3	24.0	24.2	24.0	24.0	24.2	12.2	12.2	12.1	12.3	12.3	12.1	12.2	12.3	12.1	12.3	12.3	12.3
LTE Band 25 Main1	24.4	24.2	24.3	24.2	24.2	24.3	24.1	12.7	24.1	24.3	24.2	24.3	24.4	12.7	12.6	12.6	12.8	12.6	12.6	12.7	12.6	12.6	12.5	12.5	12.8
LTE Band 30 Main1	23.3	23.3	23.2	23.3	23.3	23.4	23.3	11.0	23.1	23.2	23.3	23.4	23.3	11.1	11.2	11.1	11.0	11.2	11.0	11.0	11.1	11.3	11.2	11.2	11.1
LTE Band 7 Main1	23.7	23.7	23.7	23.7	23.9	24.0	23.8	10.3	23.8	23.7	23.9	23.7	23.9	10.4	10.4	10.5	10.3	10.3	10.3	10.4	10.4	10.4	10.2	10.3	10.5
NR Band n12 Main1	24.0	24.0	24.0	24.0	23.9	23.9	24.0	14.5	23.8	24.0	23.8	23.9	24.0	14.3	14.2	14.5	14.4	14.4	14.3	14.3	14.3	14.4	14.5	14.4	14.4
NR Band n26 Main1	24.0	24.0	24.0	24.2	23.9	24.0	24.1	15.6	24.2	24.1	24.2	24.1	24.0	15.5	15.5	15.4	15.6	15.4	15.4	15.3	15.6	15.4	15.5	15.4	15.6
NR Band n66 Main1	24.1	24.1	24.2	24.3	24.2	24.2	24.3	12.3	24.3	24.2	24.1	24.2	24.1	12.0	12.2	12.3	12.1	12.1	12.0	12.0	12.0	12.1	12.3	12.2	12.3
NR Band n25 Main1	24.1	24.0	23.9	23.9	24.0	24.1	23.9	12.5	24.1	24.1	24.1	24.1	24.0	12.4	12.3	12.4	12.4	12.3	12.3	12.5	12.5	12.4	12.5	12.3	12.4
NR Band n30 Main1	22.8	22.8	23.0	22.9	23.0	22.8	22.9	11.0	23.0	22.9	23.0	22.8	22.9	10.9	11.1	11.1	10.9	11.1	10.9	11.1	11.1	11.0	10.9	11.0	11.0
NR Band n7 Main1	24.1	24.1	24.1	24.0	24.2	24.1	24.2	10.6	24.1	24.1	24.3	24.1	24.1	10.7	10.7	10.5	10.7	10.6	10.6	10.5	10.6	10.6	10.5	10.7	10.5

KDB 616217 D04 6.2.f															
distance [mm]	21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	33 mm	36 mm	39 mm
WCDMA 5 Main1	14.0	14.0	14.0	14.1	14.1	14.0	14.0	14.0	24.1	24.3	24.3	24.1	24.1	24.1	24.3
WCDMA 4 Main1	12.3	12.5	12.5	12.5	12.4	12.5	12.3	12.4	23.9	23.9	23.9	24.0	24.1	24.0	24.1
WCDMA 2 Main1	12.0	11.8	11.8	11.9	11.9	11.7	11.9	11.9	23.9	23.9	23.8	24.0	23.9	23.8	24.0
LTE Band 12 Main1	14.5	14.5	14.4	14.3	14.3	14.4	14.6	14.4	23.9	23.7	23.9	23.9	23.9	23.7	23.8
LTE Band 26 Main1	15.0	15.3	15.2	15.1	15.1	15.1	15.1	15.2	24.0	24.1	24.2	24.1	24.1	24.0	24.2
LTE Band 66 Main1	12.2	12.3	12.2	12.3	12.2	12.1	12.3	12.2	24.2	24.0	24.2	24.2	24.1	24.2	24.2
LTE Band 25 Main1	12.6	12.7	12.6	12.7	12.7	12.6	12.5	12.5	24.2	24.4	24.1	24.3	24.2	24.1	24.4
LTE Band 30 Main1	11.0	11.0	11.0	11.1	11.0	11.0	11.2	11.0	23.4	23.4	23.2	23.2	23.2	23.4	23.1
LTE Band 7 Main1	10.4	10.4	10.3	10.5	10.5	10.3	10.3	10.4	23.9	23.8	23.8	23.9	23.7	23.9	23.7
NR Band n12 Main1	14.4	14.4	14.5	14.2	14.4	14.4	14.3	14.5	24.0	23.9	23.9	23.9	23.9	23.9	24.0
NR Band n26 Main1	15.5	15.6	15.5	15.4	15.4	15.5	15.4	15.5	24.0	23.9	24.0	24.1	23.9	24.1	24.0
NR Band n66 Main1	12.2	12.3	12.3	12.3	12.0	12.3	12.1	12.2	24.3	24.3	24.2	24.1	24.2	24.1	24.3
NR Band n25 Main1	12.3	12.5	12.5	12.2	12.5	12.3	12.5	12.5	24.0	23.9	24.0	24.0	24.1	24.0	23.9
NR Band n30 Main1	10.9	10.9	10.8	11.1	11.0	11.1	10.9	10.9	22.7	22.8	22.9	23.0	23.0	23.0	22.9
NR Band n7 Main1	10.5	10.6	10.7	10.6	10.7	10.7	10.7	10.7	24.0	24.0	24.1	24.1	24.1	24.1	24.2

2 Grip Sensor – Grip #1 Rear

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

		KDB 616217 D04 6.2.b-g																											
distance [mm]		46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm			
WiFi2.4GHz 802.11b 1Mbps SISO1		18.1	18.3	18.3	18.2	18.1	18.4	18.3	9.9	18.3	18.2	18.4	18.2	18.1	9.9	10.0	10.1	10.1	10.1	9.9	9.9	10.0	9.9	10.0	10.0	9.9			
WiFi5GHz 802.11a 6Mbps UNII 2A SISO1		17.0	17.0	17.1	17.0	17.1	17.1	17.1	5.7	17.0	17.0	17.0	17.2	16.9	5.7	5.9	5.9	5.9	5.8	5.8	5.7	5.8	5.8	5.7	5.9	5.9			
WiFi5GHz 802.11a 6Mbps UNII 2C SISO1		17.1	16.9	17.0	17.0	16.9	17.0	17.1	6.1	16.9	17.0	17.1	17.0	17.0	6.0	6.0	6.1	6.1	6.0	6.1	6.2	6.0	6.0	6.1	6.0	6.2			
WiFi5GHz 802.11a 6Mbps UNII 3 SISO1		16.8	16.9	17.0	17.0	16.8	16.8	16.8	5.8	16.8	17.0	16.9	16.8	17.0	5.8	5.9	5.7	5.7	6.0	6.0	5.9	5.7	5.7	5.8	5.8	5.7			
WiFi5GHz 802.11a 6Mbps UNII 4 SISO1		17.3	17.1	17.3	17.2	17.2	17.1	17.2	5.8	17.1	17.1	17.1	17.3	17.2	5.7	5.9	5.9	5.7	5.9	5.7	5.8	5.9	5.8	5.9	5.8	5.7			
WiFi5GHz 802.11ac VHT80 UNII 2A SISO1		14.9	14.9	14.9	14.9	14.9	14.7	14.8	6.2	14.8	14.9	14.8	14.9	14.9	6.2	6.3	6.1	6.1	6.3	6.3	6.3	6.2	6.3	6.1	6.3	6.3			
WiFi5GHz 802.11ac VHT80 UNII 2C SISO1		15.0	14.9	14.9	14.9	14.9	15.1	14.9	5.9	14.9	14.9	14.9	14.8	15.0	5.9	6.0	5.8	6.0	5.9	5.7	5.7	5.9	6.0	5.7	5.8	5.7			
WiFi5GHz 802.11ac VHT80 UNII 3 SISO1		15.3	15.2	15.2	15.3	15.2	15.1	15.2	6.1	15.2	15.3	15.1	15.1	15.3	5.8	5.9	6.1	6.0	5.8	6.0	6.1	6.0	5.9	6.0	5.8	6.1			
WiFi5GHz 802.11ac VHT80 UNII 4 SISO1		14.9	14.8	15.0	14.9	14.8	14.9	14.8	6.0	14.8	14.8	14.8	14.9	14.8	6.0	5.8	5.7	6.0	5.8	5.7	6.0	5.9	5.9	5.8	5.9	5.7			
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO1		9.1	9.0	9.2	9.1	9.2	9.2	9.2	5.9	9.0	9.1	9.2	9.0	9.1	5.8	5.8	5.8	5.9	5.9	5.7	5.9	5.8	5.7	5.9	5.7	5.9			
Bluetooth BDR 1Mbps SISO1		16.0	15.9	16.0	16.0	16.0	16.1	15.9	5.1	16.1	16.0	16.1	15.9	16.1	5.2	4.9	5.1	4.9	5.0	4.9	5.1	5.0	5.1	4.9	5.1	5.1			

		KDB 616217 D04 6.2.f																
distance [mm]		21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	33 mm	36 mm	39 mm		
WiFi2.4GHz 802.11b 1Mbps SISO1		10.1	9.9	10.0	10.0	10.1	10.1	10.0	10.2	18.1	18.2	18.2	18.2	18.2	18.2	18.2		
WiFi5GHz 802.11a 6Mbps UNII 2A SISO1		5.8	5.9	5.7	5.8	5.9	5.8	5.8	5.9	17.1	17.1	17.1	17.1	16.9	17.1	17.2		
WiFi5GHz 802.11a 6Mbps UNII 2C SISO1		6.2	6.1	6.2	6.1	6.2	6.1	6.1	6.1	17.1	16.9	16.9	17.1	17.1	17.1	17.1		
WiFi5GHz 802.11a 6Mbps UNII 3 SISO1		5.8	5.9	5.8	5.8	5.7	6.0	5.9	5.8	16.8	16.8	16.8	17.0	17.0	16.9	16.8		
WiFi5GHz 802.11a 6Mbps UNII 4 SISO1		6.0	5.8	5.7	5.8	5.7	5.9	5.9	5.8	17.3	17.1	17.3	17.1	17.2	17.1	17.1		
WiFi5GHz 802.11ac VHT80 UNII 2A SISO1		6.3	6.3	6.3	6.1	6.2	6.1	6.2	6.2	14.7	14.8	14.8	14.9	14.9	14.7	14.7		
WiFi5GHz 802.11ac VHT80 UNII 2C SISO1		5.9	5.8	5.9	5.9	5.8	5.9	5.7	5.7	15.0	15.0	15.0	15.0	14.9	14.9	15.1		
WiFi5GHz 802.11ac VHT80 UNII 3 SISO1		6.1	6.0	5.9	5.9	6.0	5.9	6.1	5.9	15.2	15.3	15.1	15.3	15.1	15.2	15.2		
WiFi5GHz 802.11ac VHT80 UNII 4 SISO1		5.9	5.8	5.9	5.9	5.9	5.9	6.0	5.9	14.7	14.8	14.8	15.0	14.8	15.0	14.9		
WiFi 6GHz 802.11ax HE 160 UNII5/6/7/8 SISO1		5.9	5.8	5.8	5.8	5.9	5.8	5.8	5.7	9.1	9.0	9.0	9.2	9.2	9.2	9.2		
Bluetooth BDR 1Mbps SISO1		5.0	5.2	5.2	5.0	5.2	5.1	5.0	4.9	16.0	15.9	15.9	15.9	15.8	15.9	15.9		

2.2 Grip #1 Top

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

		KDB 616217 D04 6.2.b-g																											
distance [mm]		46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm			
Wi-Fi 2.4GHz 802.11b 1Mbps SISO1		18.2	18.1	18.2	18.4	18.1	18.2	18.1	9.9	18.3	18.3	18.1	18.1	18.3	10.1	9.9	10.0	10.1	10.0	10.0	9.9	10.0	10.1	10.1	10.1	10.1	10.1		
Wi-Fi 5GHz 802.11a 6Mbps UNII 2A SISO1		17.2	17.0	17.1	17.2	17.0	17.0	17.2	5.9	17.2	17.1	17.0	16.9	17.0	5.9	5.8	5.7	5.7	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.9	5.9		
Wi-Fi 5GHz 802.11a 6Mbps UNII 2C SISO1		17.0	16.9	17.1	17.0	17.0	16.9	16.9	6.0	17.0	17.0	16.9	17.1	17.1	6.2	6.0	6.0	6.0	6.1	6.2	6.1	6.0	6.0	6.1	6.0	6.2	6.2		
Wi-Fi 5GHz 802.11a 6Mbps UNII 3 SISO1		17.0	16.9	16.9	16.8	16.9	16.8	16.9	5.9	16.8	16.9	16.8	16.8	17.0	5.7	5.8	5.7	5.8	6.0	5.8	5.8	5.8	6.0	5.9	5.8	5.8	5.8		
Wi-Fi 5GHz 802.11a 6Mbps UNII 4 SISO1		17.4	17.3	17.2	17.1	17.1	17.1	17.3	5.8	17.1	17.2	17.2	17.2	17.4	5.9	5.9	5.7	5.8	5.8	5.8	5.7	5.8	5.9	5.9	5.7	5.7	5.7		
Wi-Fi 5GHz 802.11ac VHT80 UNII 2A SISO1		14.9	14.8	14.8	14.9	14.7	14.9	14.9	6.2	14.9	14.7	14.7	14.8	14.7	6.1	6.3	6.1	6.2	6.2	6.1	6.2	6.2	6.3	6.2	6.1	6.2	6.2		
Wi-Fi 5GHz 802.11ac VHT80 UNII 2C SISO1		14.9	14.9	14.9	15.0	14.8	14.9	14.9	5.7	14.9	14.9	15.0	14.8	15.1	5.9	5.7	5.8	5.8	5.8	5.7	5.8	5.9	5.7	5.9	5.8	6.0	6.0		
Wi-Fi 5GHz 802.11ac VHT80 UNII 3 SISO1		15.2	15.2	15.1	15.2	15.2	15.1	15.3	6.1	15.2	15.1	15.1	15.1	15.2	6.0	5.9	6.1	5.8	5.9	6.0	6.0	5.9	6.0	6.1	6.1	5.9	5.9		
Wi-Fi 5GHz 802.11ac VHT80 UNII 4 SISO1		14.8	14.9	14.9	14.9	14.8	14.8	14.8	5.9	14.9	15.0	14.9	15.0	14.8	5.8	5.9	5.9	5.9	5.8	5.8	5.9	5.8	5.8	5.9	5.7	5.9	5.9		
Wi-Fi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO1		9.0	9.1	9.0	9.2	9.1	9.2	9.1	5.7	9.0	9.1	9.1	9.1	9.1	6.0	5.7	5.7	5.8	5.7	5.9	5.8	5.8	5.9	5.7	5.9	5.9	5.9		
Bluetooth BDR 1Mbps SISO1		16.1	15.9	16.1	16.1	16.1	15.9	15.8	5.0	16.0	16.0	15.9	16.0	16.1	5.1	5.0	5.2	5.0	4.9	5.0	4.9	5.0	4.9	5.0	4.9	5.0	4.9		

		KDB 616217 D04 6.2.f																
distance [mm]		21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	33 mm	36 mm	39 mm		
WiFi2.4GHz 802.11b 1Mbps SISO1		9.9	10.1	10.0	9.9	10.1	9.9	9.9	10.1	18.1	18.3	18.4	18.3	18.3	18.1	18.3		
WiFi5GHz 802.11a 6Mbps UNII 2A SISO1		5.7	5.9	5.8	5.7	5.9	5.9	5.7	5.7	17.0	17.1	16.9	17.1	17.0	17.1	17.0		
WiFi5GHz 802.11a 6Mbps UNII 2C SISO1		6.1	6.1	6.1	6.0	5.9	6.2	6.1	5.9	17.1	17.0	16.9	17.0	17.1	17.1	16.9		
WiFi5GHz 802.11a 6Mbps UNII 3 SISO1		5.8	5.9	5.8	5.7	5.9	5.8	5.9	5.8	16.8	17.0	17.0	16.8	16.8	16.9	16.9		
WiFi5GHz 802.11a 6Mbps UNII 4 SISO1		5.7	5.7	5.8	5.8	5.7	5.9	5.7	5.8	17.1	17.3	17.3	17.1	17.1	17.3	17.1		
WiFi5GHz 802.11ac VHT80 UNII 2A SISO1		6.2	6.1	6.3	6.2	6.1	6.1	6.1	6.3	14.7	14.8	14.9	14.7	14.8	14.7	14.9		
WiFi5GHz 802.11ac VHT80 UNII 2C SISO1		6.0	5.9	5.9	5.8	5.9	5.7	5.9	5.9	14.9	14.9	14.9	15.0	15.1	15.1	14.9		
WiFi5GHz 802.11ac VHT80 UNII 3 SISO1		5.9	6.0	5.9	5.8	5.9	5.8	5.9	5.8	15.2	15.3	15.3	15.2	15.3	15.2	15.3		
WiFi5GHz 802.11ac VHT80 UNII 4 SISO1		5.9	6.0	6.0	5.9	5.7	5.9	5.7	5.8	14.9	15.0	14.9	14.9	14.8	14.8	14.8		
WiFi1 6GHz 802.11Bt HE160 UNIS5/6/7/8 SISO1		5.8	5.7	5.9	5.8	5.9	5.7	5.7	5.7	9.2	9.1	9.0	9.1	9.1	9.1	9.2		
Bluetooth BDR11M UNIS5 SISO1		5.1	5.0	5.1	5.0	4.9	4.9	4.9	4.9	16.0	16.0	16.0	16.0	15.9	15.9	16.1		

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

[illegible]

KDB #161217 D04 & 4												
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45		
WiFi2.4GHz 802.11b 1Mbps SISO1	9.9	9.9	10.0	9.9	10.0	9.9	10.0	10.0	10.1	9.9		
WiFi5GHz 802.11a 6Mbps UNII 2A SISO1	5.7	5.7	5.9	5.9	5.7	5.7	5.8	5.7	5.9	5.9		
WiFi5GHz 802.11a 6Mbps UNII 2C SISO1	6.2	6.0	6.0	6.1	6.0	6.1	6.0	6.1	6.2	6.1		
WiFi5GHz 802.11a 6Mbps UNII 3 SISO1	6.0	5.9	5.9	5.9	5.9	5.8	5.9	6.0	6.0	5.8		
WiFi5GHz 802.11a 6Mbps UNII 4 SISO1	5.8	5.8	5.9	5.7	5.9	5.8	5.9	5.7	5.9	5.9		
WiFi5GHz 802.11ac VHT80 UNII 2A SISO1	6.2	6.3	6.3	6.2	6.2	6.3	6.2	6.1	6.2	6.3		
WiFi5GHz 802.11ac VHT80 UNII 2C SISO1	5.7	5.9	5.8	5.8	5.7	5.7	5.8	6.0	5.8	5.8		
WiFi5GHz 802.11ac VHT80 UNII 3 SISO1	6.0	6.0	6.0	6.1	5.9	6.1	5.9	6.0	6.0	5.9		
WiFi5GHz 802.11ac VHT80 UNII 4 SISO1	5.8	5.8	5.9	5.9	5.8	5.9	5.8	5.9	5.9	5.9		
WiFi 6GHz 802.11ax HE 160 UNII5/6/7/8 SISO1	5.8	5.7	5.8	5.7	5.7	5.7	5.7	5.8	5.9	5.8		
Bluetooth BR 1Mbps SISO1	5.1	5.0	5.1	5.1	5.0	5.1	5.0	5.0	5.2	5.0		

3 Grip Sensor – Grip #3 Rear

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

	distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
WCDMA 4 Main1		24.1	23.9	24.0	23.9	24.1	24.1	23.9	12.3	24.0	23.9	23.8	24.1	24.0	12.4	12.3	12.5	12.3	12.3	12.3	12.4	12.5	12.4	12.4	12.5	12.4
WCDMA 2 Main1		23.9	24.0	24.0	23.8	23.8	24.0	24.0	11.7	24.0	24.0	23.8	23.8	23.8	11.7	11.8	11.8	11.9	11.9	11.7	11.7	12.0	11.9	11.8	11.8	11.7
LTE Band 66 Main1		24.0	24.1	24.2	24.2	24.1	24.0	24.0	12.3	24.0	24.0	24.1	24.2	24.2	12.1	12.2	12.1	12.1	12.3	12.3	12.3	12.2	12.3	12.1	12.1	12.3
LTE Band 25 Main1		24.3	24.3	24.1	24.3	24.2	24.3	24.4	12.6	24.2	24.2	24.2	24.3	24.2	12.6	12.7	12.7	12.7	12.5	12.6	12.6	12.7	12.6	12.7	12.7	12.6
LTE Band 7 Main1		23.8	23.9	23.9	23.9	23.9	23.9	23.7	10.5	23.7	23.7	23.9	23.9	23.8	10.3	10.5	10.3	10.3	10.4	10.3	10.4	10.3	10.2	10.3	10.4	10.4
NR Band n66 Main1		24.2	24.2	24.3	24.3	24.1	24.2	24.2	12.2	24.3	24.2	24.3	24.2	24.3	12.1	12.1	12.2	12.2	12.1	12.1	12.3	12.3	12.2	12.2	12.2	12.2
NR Band n25 Main1		23.9	24.0	24.1	23.9	23.9	24.1	24.0	12.3	24.1	24.1	23.9	24.0	23.9	12.3	12.4	12.4	12.4	12.4	12.4	12.3	12.5	12.3	12.4	12.3	12.4
NR Band n7 Main1		24.3	24.1	24.2	24.1	24.2	24.2	24.1	10.6	24.2	24.0	24.1	24.1	24.1	10.7	10.5	10.7	10.7	10.6	10.6	10.6	10.7	10.6	10.8	10.7	10.8
WiFi2.4GHz 802.11b 1Mbps SISO2		18.2	18.3	18.1	18.2	18.2	18.2	18.3	10.3	18.0	18.0	18.0	18.0	18.1	10.0	10.0	10.1	10.0	10.1	10.2	10.1	10.2	10.2	10.2	10.0	10.3
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2		16.8	16.9	16.7	17.0	16.9	16.8	16.8	5.9	16.8	16.9	16.8	16.9	16.9	5.9	6.0	5.9	5.8	5.9	5.8	5.9	6.0	5.9	5.9	5.9	5.9
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2		16.8	16.9	17.0	17.0	16.8	16.9	16.9	5.8	16.9	16.9	16.8	16.9	16.8	5.9	6.0	5.8	5.9	5.9	5.9	6.0	6.0	5.9	6.0	5.9	6.0
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2		17.3	17.3	17.2	17.2	17.2	17.1	17.3	6.0	17.2	17.3	17.1	17.1	17.3	5.8	6.0	5.8	5.7	5.7	6.0	5.9	5.7	5.9	5.9	5.9	5.7
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2		17.2	17.1	17.1	17.2	17.0	17.1	17.2	5.9	17.1	17.2	17.2	17.2	17.0	17.2	6.0	5.9	5.8	5.9	6.0	5.9	5.9	5.8	6.0	5.7	5.9
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2		15.0	14.8	14.9	14.8	14.9	15.0	15.0	6.2	14.9	14.9	14.8	15.0	15.0	6.2	6.1	6.2	6.3	6.2	6.0	6.2	6.1	6.2	6.2	6.0	6.0
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2		15.1	15.1	15.2	15.0	15.0	15.1	15.2	5.9	15.0	15.1	15.2	15.1	15.1	5.9	6.1	5.8	5.8	5.9	5.9	6.0	6.0	6.0	5.9	5.9	6.0
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2		14.9	15.0	15.0	15.1	15.1	14.9	15.0	6.0	14.9	14.9	15.1	15.0	15.0	6.1	6.1	6.2	6.1	6.2	6.2	6.2	6.1	6.3	6.1	6.1	6.1
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2		15.0	15.0	14.9	14.9	15.0	15.2	15.1	6.1	15.0	14.9	15.1	14.9	15.2	6.1	6.3	6.0	6.0	6.2	6.0	6.0	6.0	6.1	6.0	6.0	6.0
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO2		9.1	9.0	9.1	9.0	9.1	9.2	9.3	6.1	9.2	9.1	9.1	9.2	9.2	5.9	6.1	6.0	6.0	5.8	5.9	6.1	5.9	5.9	6.1	5.9	6.1
Bluetooth BDR 1Mbps SISO2		16.2	16.3	16.3	16.3	16.1	16.1	16.3	4.9	16.2	16.3	16.1	16.2	16.3	4.9	5.1	5.1	5.1	5.1	5.0	5.1	5.1	5.0	5.1	5.0	5.0

		KDB 616217 D04 6.2.f															
distance [mm]	21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	35 mm	38 mm			
WCDMA 4 Main1	12.4	12.4	12.5	12.3	12.3	12.3	12.5	23.9	23.9	24.0	23.9	23.9	23.9	24.0			
WCDMA 2 Main1	11.7	11.9	11.8	12.0	12.0	11.7	11.7	24.0	23.8	24.0	23.8	23.9	24.0	24.0			
LTE Band 66 Main1	12.3	12.2	12.3	12.1	12.3	12.1	12.2	24.2	24.1	24.1	24.0	24.0	24.0	24.1			
LTE Band 25 Main1	12.7	12.6	12.5	12.5	12.8	12.6	12.7	24.3	24.4	24.2	24.3	24.3	24.2	24.4			
LTE Band 7 Main1	10.4	10.4	10.4	10.2	10.5	10.3	10.2	23.8	23.8	23.9	23.8	23.7	23.7	23.7			
NR Band n66 Main1	12.3	12.0	12.3	12.2	12.3	12.3	12.2	24.3	24.3	24.3	24.3	24.2	24.3	24.3			
NR Band n25 Main1	12.4	12.3	12.4	12.4	12.3	12.5	12.4	24.0	23.9	23.9	23.9	23.9	24.0	24.0			
NR Band n7 Main1	10.6	10.7	10.7	10.6	10.5	10.6	10.7	24.3	24.1	24.1	24.3	24.2	24.1	24.1			
WiFi2.4GHz 802.11b 1Mbps SISO2	10.3	10.3	10.2	10.2	10.3	10.1	10.1	18.3	18.3	18.2	18.2	18.2	18.2	18.2			
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2	5.9	5.9	5.8	5.9	6.0	5.9	5.9	16.7	16.8	16.7	16.8	16.9	17.0	16.8			
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2	6.0	6.1	6.0	5.9	6.1	6.0	6.0	17.0	16.9	16.8	17.0	16.9	16.9	17.0			
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2	5.9	5.9	5.7	5.9	6.0	5.7	5.8	17.2	17.1	17.3	17.1	17.2	17.3	17.3			
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2	6.0	5.8	5.8	5.7	5.9	5.9	5.7	17.0	17.2	17.0	17.2	17.0	17.0	17.2			
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2	6.1	6.3	6.2	6.0	6.2	6.0	6.2	14.9	14.8	14.9	14.8	14.8	14.9	15.0			
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2	5.8	5.9	5.8	6.1	5.9	5.8	6.0	15.0	15.3	15.2	15.0	15.2	15.1	15.1			
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2	6.0	6.1	6.1	6.1	6.2	6.0	6.0	14.9	14.9	15.1	14.9	15.1	15.0	15.0			
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2	6.2	6.0	6.2	6.2	6.0	6.1	6.2	15.0	15.1	15.0	15.0	15.2	14.9	15.2			
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO2	6.0	5.9	6.1	6.1	5.9	6.0	6.1	9.0	9.1	9.2	9.3	9.3	9.3	9.0			
Bluetooth BDR 1Mbps SISO2	5.2	5.1	5.0	5.2	5.1	5.0	4.9	16.3	16.1	16.3	16.1	16.2	16.2	16.3			

3.2 Grip #3 Top

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

	distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm	
WCDMA 4 Main1		24.1	24.1	24.1	24.1	23.9	24.0	24.0	12.5	23.9	24.0	24.1	24.1	23.9	12.3	12.4	12.4	12.5	12.4	12.4	12.3	12.3	12.3	12.5	12.3	12.4	12.3
WCDMA 2 Main1		23.9	23.9	23.8	23.9	23.9	23.9	24.0	11.8	24.0	24.0	24.0	24.0	24.0	11.7	11.7	11.8	11.8	11.8	11.8	11.9	12.0	11.8	11.8	11.7	11.8	
LTE Band 66 Main1		24.1	24.1	24.2	24.1	24.1	24.2	24.1	12.1	24.1	24.2	24.1	24.2	24.2	12.2	12.2	12.1	12.1	12.3	12.3	12.3	12.3	12.3	12.1	12.3	12.2	12.3
LTE Band 25 Main1		24.2	24.4	24.3	24.3	24.4	24.3	24.1	12.6	24.2	24.3	24.3	24.4	24.3	12.6	12.7	12.7	12.8	12.6	12.5	12.6	12.6	12.6	12.6	12.5	12.6	
LTE Band 7 Main1		23.9	23.7	23.9	24.0	23.8	23.7	23.9	10.4	23.8	23.9	23.9	23.8	23.8	10.4	10.5	10.3	10.4	10.4	10.5	10.2	10.3	10.5	10.4	10.5	10.5	
NR Band n66 Main1		24.1	24.3	24.3	24.3	24.3	24.2	24.2	12.1	24.1	24.1	24.3	24.2	24.3	12.2	12.1	12.1	12.1	12.2	12.3	12.2	12.0	12.3	12.2	12.2	12.0	
NR Band n25 Main1		23.9	24.0	24.1	24.0	24.0	23.9	24.1	12.5	24.1	23.9	23.9	24.1	24.1	12.3	12.5	12.4	12.3	12.3	12.3	12.5	12.5	12.4	12.3	12.2	12.3	
NR Band n7 Main1		24.3	24.0	24.2	24.1	24.2	24.2	24.1	10.6	24.0	24.0	24.2	24.1	24.3	10.6	10.5	10.7	10.7	10.5	10.6	10.7	10.7	10.6	10.7	10.6	10.7	
WiFi 4GHz 802.11b 1Mbps SISO2		18.2	18.3	18.0	18.1	18.3	18.3	18.3	10.2	18.1	18.1	18.1	18.3	18.3	10.3	10.2	10.2	10.1	10.3	10.2	10.3	10.2	10.1	10.1	10.1	10.0	
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2		16.7	17.0	16.7	16.9	17.0	16.9	16.8	5.8	17.0	16.7	17.0	16.8	16.9	5.7	5.8	5.9	6.0	6.0	6.0	6.0	6.0	5.7	5.9	6.0	5.8	
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2		16.9	16.8	17.0	16.9	17.0	17.0	16.9	5.9	16.8	16.8	16.8	17.0	17.0	5.9	6.0	5.8	6.0	6.0	6.0	6.0	6.0	5.9	6.0	6.0	5.8	
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2		17.1	17.2	17.3	17.1	17.1	17.2	17.2	5.8	17.1	17.1	17.3	17.1	17.2	5.8	5.9	5.9	5.7	5.8	5.9	5.8	5.9	5.9	5.8	5.8	5.8	
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2		17.0	17.1	17.0	17.1	17.0	17.0	17.1	6.0	17.0	17.2	17.2	17.1	17.0	5.8	5.8	5.8	5.8	5.7	5.9	5.7	5.9	5.7	5.9	5.9	5.9	
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2		14.8	15.0	14.8	14.7	14.8	14.9	14.8	6.1	14.9	15.0	14.9	14.9	14.9	6.1	6.1	6.0	6.1	6.3	6.3	6.1	6.2	6.1	6.2	6.0	6.1	
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2		15.1	15.1	15.2	15.2	15.0	15.0	15.1	5.8	15.2	15.1	15.1	15.0	15.0	5.9	5.8	6.1	5.9	5.9	6.0	5.8	6.1	5.9	6.1	6.0	6.0	
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2		14.9	14.9	15.0	15.1	15.0	14.9	15.0	6.0	14.9	15.1	15.1	15.1	15.0	6.1	6.0	6.1	6.3	6.2	6.3	6.1	6.3	6.0	6.0	6.1	6.0	
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2		15.1	15.0	15.1	14.9	15.0	14.9	15.1	6.2	15.2	15.1	15.0	15.0	15.1	6.1	6.3	6.2	6.1	6.2	6.0	6.1	6.2	6.0	6.2	6.0	6.2	
WiFi 6GHz 802.11ax 1HE 1Mbps SISO2		9.1	9.0	9.2	9.1	9.1	9.3	9.2	5.9	9.2	9.0	9.1	9.1	9.3	5.9	5.9	5.9	5.9	6.0	6.0	6.0	5.9	5.9	5.9	6.1	6.0	
Bluetooth BDR 1Mbps SISO2		16.3	16.1	16.2	16.4	16.3	16.3	16.3	5.0	16.3	16.2	16.1	16.2	16.2	5.0	5.1	4.9	5.0	5.2	5.2	4.9	4.9	5.0	5.0	5.0	4.9	

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																				
distance [mm]	36 mm	33 mm	30 mm	27 mm	24 mm	21 mm	18 mm	15 mm	20 mm	19 mm	18 mm	17 mm	16 mm	15 mm	14 mm	13 mm	12 mm	11 mm	8 mm	5 mm
WCDMA 4 Main1	23.9	24.0	24.1	24.0	24.1	23.9	24.1	12.3	23.9	23.9	24.0	24.0	23.9	12.3	12.4	12.4	12.4	12.5	12.4	12.4
WCDMA 2 Main1	23.8	23.8	24.0	23.9	23.8	24.0	23.9	11.7	23.8	23.9	23.9	23.9	24.0	11.7	11.7	12.0	11.9	11.8	11.9	11.7
LTE Band 66 Main1	24.1	24.2	24.0	24.2	24.3	24.0	24.2	12.2	24.3	24.0	24.0	24.1	24.1	12.2	12.1	12.2	12.1	12.2	12.1	12.3
LTE Band 25 Main1	24.2	24.2	24.3	24.2	24.3	24.4	24.2	12.6	24.2	24.2	24.2	24.4	24.3	12.6	12.7	12.6	12.7	12.7	12.6	12.7
LTE Band 7 Main1	23.7	23.8	23.9	23.9	23.8	23.8	23.8	10.3	23.8	23.9	23.7	24.0	23.8	10.2	10.4	10.2	10.4	10.5	10.3	10.4
NR Band n66 Main1	24.1	24.2	24.3	24.1	24.1	24.3	24.3	12.3	24.3	24.2	24.1	24.3	24.3	12.2	12.2	12.3	12.1	12.2	12.1	12.3
NR Band n25 Main1	24.1	24.0	24.0	24.0	24.0	24.0	23.9	12.4	24.1	24.1	24.0	24.0	24.0	12.3	12.5	12.4	12.4	12.4	12.5	12.4
NR Band n7 Main1	24.0	24.3	24.2	24.1	24.3	24.3	24.1	10.6	24.2	24.1	24.2	24.2	24.1	10.6	10.8	10.6	10.7	10.6	10.5	10.7
WiFi2.4GHz 802.11b 1Mbps SISO2	18.0	18.3	18.1	18.1	18.1	18.0	18.1	10.1	18.3	18.1	18.0	18.1	18.1	10.2	10.1	10.3	10.0	10.1	10.1	10.2
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2	16.8	16.9	16.9	16.9	17.0	16.8	16.8	6.0	16.7	16.9	16.8	16.9	17.0	5.9	5.8	5.8	5.8	6.0	6.0	5.9
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2	17.0	17.0	16.9	17.0	16.8	17.0	17.0	5.9	16.9	17.0	16.9	16.9	16.8	5.9	6.0	5.9	6.1	6.1	6.0	5.9
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2	17.3	17.3	17.3	17.2	17.3	17.1	17.2	5.8	17.3	17.1	17.3	17.3	17.2	5.8	5.9	5.9	5.9	5.8	5.9	5.8
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2	17.1	17.1	17.1	17.0	17.2	17.2	17.2	5.9	17.2	17.2	17.2	17.2	17.0	5.8	5.8	5.9	6.0	5.8	6.0	5.7
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2	15.0	15.0	14.8	14.9	14.9	14.9	14.9	6.3	14.9	14.9	14.8	14.8	14.8	6.1	6.2	6.0	6.1	6.1	6.1	6.2
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2	15.1	15.2	15.1	15.2	15.0	15.3	15.1	5.8	15.0	15.1	15.2	15.0	15.1	5.8	6.0	6.0	5.9	5.8	6.0	6.0
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2	14.9	15.0	15.2	15.1	14.9	15.1	15.0	6.0	15.1	15.0	15.0	15.1	14.9	6.2	6.0	6.1	6.1	6.3	6.0	6.1
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2	15.0	15.1	14.9	15.0	15.0	15.1	15.1	6.0	15.2	15.0	15.2	15.1	15.1	6.0	6.0	6.1	6.1	6.1	6.2	6.0
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO2	9.2	9.2	9.1	9.2	9.2	9.2	9.0	6.1	9.2	9.1	9.2	9.3	9.1	5.9	6.1	6.0	6.0	5.9	5.8	6.0
Bluetooth BDR 1Mbps SISO2	16.2	16.2	16.2	16.3	16.2	16.1	16.3	4.9	16.1	16.1	16.2	16.1	16.3	5.0	5.1	5.0	5.0	5.0	5.1	4.9

KDB 616217 D04 6.2.f														
distance [mm]	11 mm	12 mm	13 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm	21 mm	24 mm	27 mm	
WCDMA 4 Main1	12.3	12.4	12.5	12.3	12.5	12.3	24.1	24.0	23.9	23.9	24.0	24.0	23.9	
WCDMA 2 Main1	11.8	11.9	11.9	11.9	11.9	11.9	23.9	23.9	24.0	23.9	23.8	23.9	23.9	
LTE Band 66 Main1	12.1	12.1	12.3	12.1	12.1	12.1	24.2	24.2	24.1	24.3	24.0	24.1	24.0	
LTE Band 25 Main1	12.6	12.6	12.6	12.5	12.6	12.6	24.4	24.2	24.2	24.1	24.3	24.3	24.2	
LTE Band 7 Main1	10.5	10.3	10.4	10.3	10.3	10.5	23.7	23.8	23.7	23.9	23.9	23.7	23.7	
NR Band n66 Main1	12.2	12.1	12.1	12.2	12.2	12.2	24.2	24.2	24.1	24.2	24.1	24.3	24.1	
NR Band n25 Main1	12.5	12.3	12.3	12.2	12.4	12.4	23.9	24.0	23.9	24.0	24.0	24.1	24.0	
NR Band n7 Main1	10.5	10.6	10.6	10.6	10.6	10.6	24.1	24.3	24.1	24.1	24.1	24.1	24.0	
WiFi2.4GHz 802.11b 1Mbps SISO2	10.3	10.0	10.2	10.2	10.3	10.1	18.2	18.1	18.2	18.3	18.2	18.1	18.3	
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2	6.0	5.9	5.9	5.8	6.0	5.9	16.9	16.9	17.0	16.8	16.9	17.0	16.9	
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2	6.1	6.0	6.0	6.0	5.9	5.8	16.9	16.9	16.9	16.8	16.9	16.8	17.0	
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2	5.7	5.9	5.9	5.9	5.7	5.9	17.3	17.3	17.1	17.1	17.1	17.2	17.1	
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2	6.0	5.7	5.9	5.9	5.7	5.9	17.1	17.2	17.1	17.2	17.0	17.0	17.1	
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2	6.0	6.2	6.3	6.2	6.2	6.0	14.8	14.8	15.0	14.9	15.0	15.0	14.8	
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2	5.9	6.0	5.8	6.0	5.8	5.9	15.2	15.0	15.0	15.0	15.2	15.1	15.2	
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2	6.2	6.0	6.2	6.1	6.0	6.1	15.1	15.0	15.0	15.0	15.0	14.9	15.1	
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2	6.0	6.2	6.2	6.2	6.1	6.2	15.2	15.2	15.1	15.0	15.0	14.9	15.0	
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO2	6.0	5.9	6.0	6.0	6.0	6.1	9.1	9.2	9.2	9.3	9.2	9.0	9.2	
Bluetooth BDR 1Mbps SISO2	4.9	5.2	4.9	4.9	5.0	5.1	16.1	16.1	16.1	16.3	16.3	16.1	16.3	

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.4 – tested @ 15mm

KDB 616217 D04 6.4										
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45
WCDMA 4 Main1	12.3	12.5	12.5	12.3	12.5	12.5	12.4	12.3	12.4	12.5
WCDMA 2 Main1	11.7	11.8	11.9	11.7	12.0	11.9	11.8	11.9	11.9	11.8
LTE Band 66 Main1	12.1	12.1	12.1	12.1	12.3	12.2	12.3	12.1	12.3	12.1
LTE Band 25 Main1	12.7	12.5	12.8	12.5	12.6	12.6	12.5	12.8	12.7	12.7
LTE Band 7 Main1	10.5	10.4	10.3	10.4	10.5	10.5	10.4	10.4	10.3	10.5
NR Band n66 Main1	12.3	12.2	12.2	12.0	12.1	12.2	12.0	12.3	12.1	12.1
NR Band n25 Main1	12.3	12.2	12.3	12.4	12.5	12.5	12.3	12.3	12.3	12.5
NR Band n7 Main1	10.7	10.7	10.6	10.7	10.8	10.7	10.6	10.6	10.5	10.7
WiFi2.4GHz 802.11b 1Mbps SISO2	10.1	10.2	10.0	10.2	10.2	10.1	10.2	10.1	10.1	10.2
WiFi5GHz 802.11a 6Mbps UNII 2A SISO2	6.0	5.8	6.0	5.9	5.9	5.9	5.9	5.9	5.7	5.9
WiFi5GHz 802.11a 6Mbps UNII 2C SISO2	6.0	6.1	5.9	5.9	5.9	6.0	5.9	6.0	6.1	5.9
WiFi5GHz 802.11a 6Mbps UNII 3 SISO2	6.0	5.9	5.7	5.8	5.9	5.9	5.9	5.9	6.0	5.8
WiFi5GHz 802.11a 6Mbps UNII 4 SISO2	5.8	5.9	5.9	6.0	5.8	5.9	5.8	5.9	5.8	5.9
WiFi5GHz 802.11ac VHT80 UNII 2A SISO2	6.0	6.1	6.1	6.0	6.1	6.0	6.2	6.1	6.2	6.2
WiFi5GHz 802.11ac VHT80 UNII 2C SISO2	5.9	5.9	6.0	6.1	6.1	6.0	5.9	5.8	6.0	5.9
WiFi5GHz 802.11ac VHT80 UNII 3 SISO2	6.3	6.0	6.1	6.2	6.1	6.0	6.1	6.2	6.1	6.0
WiFi5GHz 802.11ac VHT80 UNII 4 SISO2	6.2	6.2	6.2	6.1	6.3	6.1	6.3	6.1	6.2	6.2
WiFi 6GHz 802.11ax HE160 UNII5/6/7/8 SISO2	5.9	6.1	5.9	6.1	6.1	6.1	6.0	6.1	6.1	5.9
Bluetooth BDR 1Mbps SISO2	8.9	8.9	9.1	9.0	8.9	9.0	9.0	8.9	9.0	8.9

4 Grip Sensor – Grip #4 Rear

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																									
distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
NR Band n77 Main2	24.8	24.8	24.8	24.8	24.9	24.7	24.7	13.5	24.7	24.7	24.9	24.9	24.8	13.5	13.3	13.5	13.5	13.5	13.5	13.3	13.5	13.5	13.3	13.5	13.3

KDB 616217 D04 6.2.f														
distance [mm]	21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	34 mm	37 mm	
NR Band n77 Main2	13.5	13.4	13.3	13.4	13.4	13.5	24.7	24.9	24.7	24.7	24.8	24.8	24.8	

4.2 Grip #4 Bottom

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																									
distance [mm]	46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
NR Band n77 Main2	24.9	24.9	24.8	24.8	24.7	24.8	24.7	13.4	24.8	24.8	24.8	24.9	24.8	13.4	13.4	13.3	13.3	13.3	13.3	13.5	13.5	13.4	13.5	13.5	13.4

KDB 616217 D04 6.2.f														
distance [mm]	21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	35 mm	38 mm
NR Band n77 Main2	13.5	13.5	13.5	13.4	13.5	13.4	13.5	24.7	24.8	24.8	24.7	24.8	24.8	24.7

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.4 – tested @ 25mm

KDB 616217 D04 6.4										
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45
NR Band n77 Main2	13.4	13.3	13.3	13.3	13.4	13.5	13.4	13.4	13.4	13.5

4.3 Grip #4 Right

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

KDB 616217 D04 6.2.b-g																			
distance [mm]	36 mm	33 mm	30 mm	27 mm	24 mm	21 mm	18 mm	15 mm	20 mm	19 mm	18 mm	17 mm	16 mm	15 mm	14 mm	13 mm	12 mm	11 mm	8 mm
NR Band n77 Main2	24.7	24.7	24.8	24.8	24.8	24.7	24.7	13.4	24.8	24.9	24.8	24.9	24.9	13.5	13.4	13.5	13.5	13.3	13.4

KDB 616217 D04 6.2.f													
distance [mm]	11 mm	12 mm	13 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm	21 mm	24 mm	27 mm
NR Band n77 Main2	13.5	13.5	13.3	13.3	13.5	13.5	24.8	24.7	24.7	24.8	24.7	24.9	24.8

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.4 – tested @ 15mm

KDB 616217 D04 6.4										
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45
NR Band n77 Main2	13.5	13.4	13.5	13.5	13.3	13.4	13.4	13.3	13.5	13.3

5 Grip Sensor – Grip #5 Rear

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

		KDB 616217 D04 6.2.b-g																								
distance [mm]		46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
LTE Band 12 Sub1		24.3	24.1	24.2	24.1	24.0	24.1	24.2	16.0	24.1	24.2	24.2	24.0	24.3	16.0	15.9	15.9	16.1	15.9	16.0	16.2	16.0	15.9	15.9	16.1	16.1
LTE Band 26 Sub1		24.0	24.1	24.1	24.0	24.0	24.1	24.0	17.6	24.0	24.0	24.1	24.0	24.0	17.7	17.7	17.6	17.6	17.7	17.7	17.6	17.7	17.7	17.6	17.6	17.5

		KDB 616217 D04 6.2.f															
distance [mm]		21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	32 mm	35 mm	38 mm		
LTE Band 12 Sub1		15.9	16.2	16.0	16.0	16.0	16.1	16.2	24.1	24.0	24.2	24.3	24.1	24.1	24.2		
LTE Band 26 Sub1		17.5	17.6	17.7	17.5	17.7	17.8	17.6	23.9	24.0	24.0	23.9	24.0	23.9	24.0		

5.2 Grip #5 Bottom

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

		KDB 616217 D04 6.2-b-g																								
distance [mm]		46 mm	43 mm	40 mm	37 mm	34 mm	31 mm	28 mm	25 mm	30 mm	29 mm	28 mm	27 mm	26 mm	25 mm	24 mm	23 mm	22 mm	21 mm	18 mm	15 mm	12 mm	9 mm	6 mm	3 mm	0 mm
LTE Band 12 Sub1		24.2	24.0	24.2	24.0	24.2	24.1	24.2	16.1	24.0	24.2	24.0	24.1	24.0	16.0	15.9	16.1	15.9	15.9	16.0	16.0	16.2	16.0	16.0	16.0	16.1
LTE Band 26 Sub1		24.0	23.9	23.9	24.0	24.1	24.0	23.9	17.5	24.1	23.9	23.9	23.9	24.1	17.6	17.7	17.5	17.6	17.8	17.8	17.5	17.7	17.7	17.7	17.6	17.5

		KDB 616217 D04 6.2-f															
distance [mm]		21 mm	22 mm	23 mm	24 mm	25 mm	26 mm	27 mm	28 mm	29 mm	30 mm	31 mm	34 mm	37 mm			
LTE Band 12 Sub1		16.1	16.1	15.9	16.0	16.0	15.9	24.0	24.1	24.1	24.1	24.0	24.3	24.0			
LTE Band 26 Sub1		17.7	17.7	17.5	17.7	17.5	17.5	23.9	24.1	23.9	24.0	24.0	24.0	24.0			

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.4 – tested @ 25mm

		KDB 616217 D04 6.4									
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45	
LTE Band 12 Sub1	15.9	16.2	15.9	16.0	15.9	16.1	15.9	16.0	16.1	16.1	
LTE Band 26 Sub1	17.8	17.7	17.5	17.6	17.8	17.6	17.6	17.7	17.5	17.5	

5.3 Grip #5 Left

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.2

		KDB 616217 D04 6.2.b-g																					
distance [mm]		36 mm	33 mm	30 mm	27 mm	24 mm	21 mm	18 mm	15 mm	20 mm	19 mm	18 mm	17 mm	16 mm	15 mm	14 mm	13 mm	12 mm	11 mm	8 mm	5 mm	2 mm	0 mm
LTE Band 12 Sub1		24.0	24.1	24.1	24.2	24.3	24.3	24.1	16.1	24.2	24.2	24.1	24.2	24.1	15.9	15.9	15.9	16.0	16.0	16.0	16.0	15.9	16.0
LTE Band 26 Sub1		24.0	23.9	23.9	24.0	24.1	23.9	24.0	17.7	24.1	24.0	24.0	24.0	24.0	17.5	17.6	17.5	17.6	17.7	17.5	17.7	17.6	17.5

		KDB 616217 D04 6.2.f															
distance [mm]		11 mm	12 mm	13 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm	21 mm	24 mm	27 mm			
LTE Band 12 Sub1		16.0	15.9	15.9	16.1	16.1	16.0	24.1	24.2	24.1	24.1	24.1	24.1	24.2			
LTE Band 26 Sub1		17.6	17.8	17.6	17.6	17.7	17.7	24.1	23.9	23.9	24.0	24.0	24.0	24.0			

Sensor Triggering distance verification per KDB 616217 D04 Sec.6.4 – tested @ 15mm

		KDB 616217 D04 6.4									
tilt angle [°]	-45	-35	-25	-15	-5	5	15	25	35	45	
LTE Band 12 Sub1	16.1	15.9	16.0	15.9	16.1	16.1	15.9	16.0	16.0	15.9	
LTE Band 26 Sub1	17.7	17.7	17.7	17.7	17.6	17.6	17.6	17.6	17.5	17.6	

Sensor Coverage per KDB 616217 D04 Sec.6.3

As the antenna and sensing elements are the same for main 1 antenna and sensor #2, antenna WiFi 1 / Sub 4 and Grip #1, WiFi 2 and Grip #3, Sub 1 and grip #5, Main 2 and grip 4 these combinations do not require the special assessments in KDB 616217 section 6.3 has to verify sensor coverage due to sensor and antenna offset. Although main antenna 1 and sensor 3 are separate, sensor 3 only reduces power to main antenna 1 when sensor 2, which is the same element as main antenna 1, is not triggered. Therefore, any proximity to main antenna 1 is handled directly by sensor 2 and sensor 3 only triggers power reduction on main 1 if the body / hand is not close to the main 1 antenna but is close antenna WiFi 2. No additional assessment for the offset between sensor 3 and main antenna is needed.

SAR test Separation Distance per KDB 616217 D04 Sec.6.2.(k)

Grip Sensor	Position	Sensor Triggering Distance	Tilt Angle	Sensor Coverage	SAR test Separation Distance (-1 mm)
Grip #1 (ECI #21)	Back	25 mm	N/A	N/A	24 mm
	Top	25 mm	25 mm	N/A	24 mm
	Left	15 mm	15 mm	N/A	14 mm
Grip #2 (ECI #19)	Back	25 mm	N/A	N/A	24 mm
	Top	25 mm	25 mm	N/A	24 mm
Grip #3 (ECI #20)	Back	25 mm	N/A	N/A	24 mm
	Top	25 mm	25 mm	N/A	24 mm
	Right	15 mm	15 mm	N/A	14 mm
Grip #4 (ECI #22)	Back	25 mm	N/A	N/A	24 mm
	Bottom	25 mm	25 mm	N/A	24 mm
	Right	15 mm	15 mm	N/A	14 mm
Grip #5 (ECI #23)	Back	25 mm	N/A	N/A	24 mm
	Bottom	25 mm	25 mm	N/A	24 mm
	Left	15 mm	15 mm	N/A	14 mm

-END-