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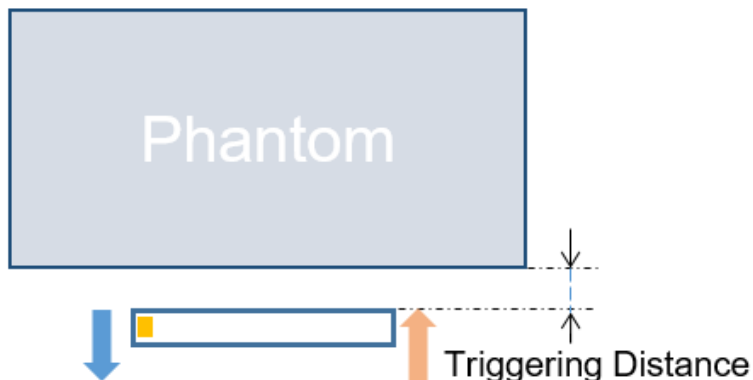
Report No.:
KR21-SPF0001-A
Page (269) of (274)

**Appendix F. Power Reduction Verification****Proximity Sensor Triggering Distance (KDB 616217 §6.2)**



Front, Rear, Left Edge and Bottom of the DUT was placed directly below the flat phantom. The DUT was moved toward the phantom in accordance with the steps outlined in KDB 616217 §6.2 to determine the trigger distance for enabling power reduction. The DUT was moved away from the phantom to determine the trigger distance for resuming full power.

The DUT featured a visual indicator on its display that showed the status of the proximity sensor (Triggered or not triggered). This was used to determine the status of the sensor during the proximity sensor assessment as monitoring the output power directly was not practical without affecting the measurement.

It was confirmed separately that the output power was altered according to the proximity sensor status indication. This was achieved by observing the proximity sensor status at the same time as monitoring the conducted power contains both the full and reduced conducted power measurements.



LEGEND

-  Direction of DUT travel for determination of power reduction triggering point
-  Direction of DUT travel for determination of full power resumption triggering point

Resulting test positions for SAR measurements

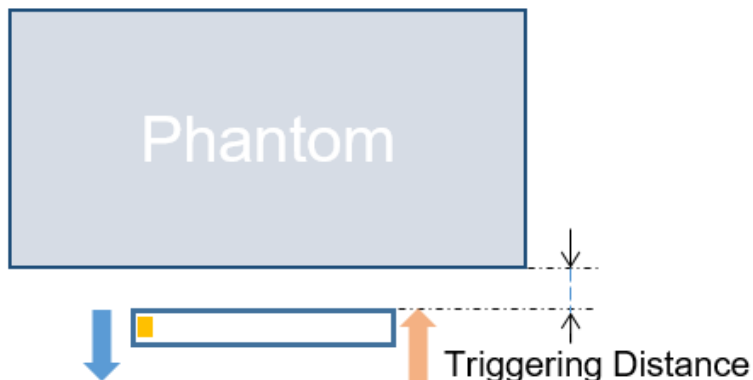
(Note: In accordance with the KDB procedure, the SAR test by the grip sensor was not required.)

Tissue simulating liquid	Band	Trigger distance – Front		
		Moving toward phantom	Moving from phantom	Worst case distance for SAR
1750 Head	WCDMA IV	8mm	8mm	7mm
	LTE Band 4			
	LTE Band 66			
1900 Head	GSM 1900	8mm	8mm	7mm
	WCDMA II			
	LTE Band 2			
2600 Head	LTE Band 41	8mm	8mm	7mm

Proximity Sensor Triggering Distance Measurement Results – Front Side

DUT Moving Toward (Trigger) and Away (Release) from the Phantom

Distance (mm)	Distance to DUT Output Power (dBm)									
	13	12	11	10	9	8	7	6	5	4
GSM1900 Voice & GPRS 1Tx	31.72	31.77	31.71	31.74	31.80	28.38	28.36	28.41	28.30	28.38
GSM1900 GPRS2Tx	28.90	28.87	28.89	28.86	28.94	26.07	26.09	26.15	26.15	26.04
GSM1900 GPRS3Tx	27.22	27.15	27.16	27.16	27.23	24.27	24.25	24.28	24.30	24.34
GSM1900 GPRS4Tx	25.52	25.58	25.49	25.56	25.56	22.66	22.61	22.57	22.63	22.61
WCDMA II	23.58	23.62	23.60	23.61	23.61	20.54	20.59	20.62	20.66	20.64
WCDMA IV	23.52	23.52	23.49	23.43	23.49	20.44	20.49	20.53	20.51	20.48
LTE Band 2	23.87	23.80	23.87	23.87	23.85	20.96	20.87	20.89	20.87	20.96
LTE Band 4	23.95	23.93	23.96	23.97	23.97	20.76	20.74	20.83	20.83	20.75
LTE Band 41	24.42	24.46	24.42	24.42	24.45	21.43	21.41	21.44	21.49	21.42
LTE Band 66	23.88	23.89	23.79	23.89	23.80	20.46	20.46	20.50	20.52	20.49



LEGEND

- Direction of DUT travel for determination of power reduction triggering point
- Direction of DUT travel for determination of full power resumption triggering point

Resulting test positions for SAR measurements

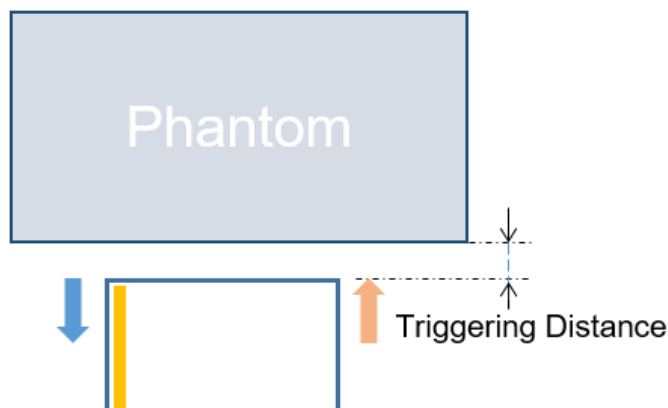
(Note: In accordance with the KDB procedure, the SAR test by the grip sensor was not required.)

Tissue simulating liquid	Band	Trigger distance – Rear		
		Moving toward phantom	Moving from phantom	Worst case distance for SAR
1750 Head	WCDMA IV	16mm	16mm	15mm
	LTE Band 4			
	LTE Band 66			
1900 Head	GSM 1900	16mm	16mm	15mm
	WCDMA II			
	LTE Band 2			
2600 Head	LTE Band 41	16mm	16mm	15mm



Proximity Sensor Triggering Distance Measurement Results – Rear Side

DUT Moving Toward (Trigger) and Away (Release) from the Phantom

Distance (mm)	Distance to DUT Output Power (dBm)									
	21	20	19	18	17	16	15	14	13	12
GSM1900 Voice & GPRS 1Tx	31.79	31.81	31.81	31.77	31.74	28.41	28.33	28.37	28.42	28.37
GSM1900 GPRS2Tx	28.90	28.95	28.84	28.85	28.94	26.13	26.13	26.08	26.14	26.03
GSM1900 GPRS3Tx	27.15	27.21	27.15	27.14	27.23	24.31	24.32	24.24	24.25	24.27
GSM1900 GPRS4Tx	25.54	25.55	25.50	25.50	25.59	22.65	22.57	22.65	22.63	22.56
WCDMA II	23.54	23.61	23.51	23.51	23.58	20.64	20.60	20.66	20.61	20.60
WCDMA IV	23.48	23.48	23.42	23.49	23.44	20.45	20.53	20.51	20.45	20.51
LTE Band 2	23.81	23.85	23.77	23.86	23.77	20.91	20.96	20.93	20.95	20.92
LTE Band 4	23.94	23.87	23.96	23.93	23.93	20.80	20.81	20.74	20.79	20.75
LTE Band 41	24.44	24.48	24.44	24.46	24.46	21.46	21.47	21.42	21.46	21.49
LTE Band 66	23.81	23.90	23.85	23.85	23.90	20.51	20.50	20.54	20.53	20.52



LEGEND

-  Direction of DUT travel for determination of power reduction triggering point
-  Direction of DUT travel for determination of full power resumption triggering point

Resulting test positions for SAR measurements

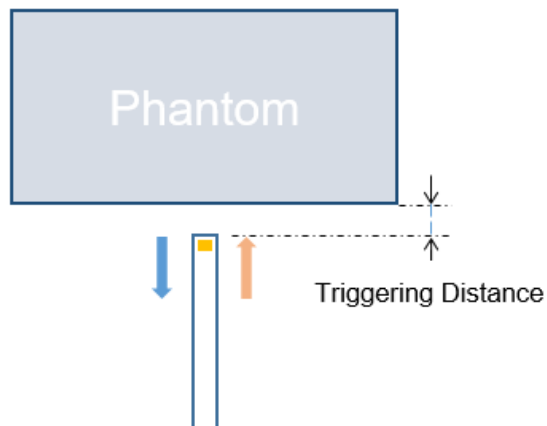
(Note: In accordance with the KDB procedure, the SAR test by the grip sensor was not required.)

Tissue simulating liquid	Band	Trigger distance – Left Edge		
		Moving toward phantom	Moving from phantom	Worst case distance for SAR
1750 Head	WCDMA IV	11mm	11mm	10mm
	LTE Band 4			
	LTE Band 66			
1900 Head	GSM 1900	11mm	11mm	10mm
	WCDMA II			
	LTE Band 2			
2600 Head	LTE Band 41	11mm	11mm	10mm

Proximity Sensor Triggering Distance Measurement Results – Left Edge Side

DUT Moving Toward (Trigger) and Away (Release) from the Phantom

Distance (mm)	Distance to DUT Output Power (dBm)									
	16	15	14	13	12	11	10	9	8	7
GSM1900 Voice &GPRS 1Tx	31.78	31.72	31.80	31.76	31.80	28.37	28.38	28.34	28.40	28.35
GSM1900 GPRS2Tx	28.87	28.92	28.89	28.90	28.88	26.11	26.03	26.06	26.12	26.08
GSM1900 GPRS3Tx	27.17	27.21	27.24	27.14	27.26	24.32	24.24	24.27	24.29	24.24
GSM1900 GPRS4Tx	25.61	25.56	25.50	25.50	25.53	22.65	22.63	22.57	22.54	22.66
WCDMA II	23.52	23.53	23.51	23.51	23.60	20.64	20.58	20.60	20.64	20.64
WCDMA IV	23.54	23.53	23.47	23.42	23.54	20.53	20.53	20.56	20.46	20.56
LTE Band 2	23.80	23.88	23.82	23.87	23.88	20.90	20.88	20.92	20.93	20.90
LTE Band 4	23.94	23.94	23.96	23.97	23.93	20.72	20.74	20.77	20.78	20.75
LTE Band 41	24.47	24.42	24.47	24.46	24.44	21.49	21.41	21.41	21.44	21.49
LTE Band 66	23.79	23.81	23.88	23.87	23.79	20.51	20.46	20.52	20.57	20.53



LEGEND

- ➔ Direction of DUT travel for determination of power reduction triggering point
- ➔ Direction of DUT travel for determination of full power resumption triggering point

Resulting test positions for SAR measurements

(Note: In accordance with the KDB procedure, the SAR test by the grip sensor was not required.)

Tissue simulating liquid	Band	Trigger distance – Bottom		
		Moving toward phantom	Moving from phantom	Worst case distance for SAR
1750 Head	WCDMA IV	13mm	13mm	12mm
	LTE Band 4			
	LTE Band 66			
1900 Head	GSM 1900	13mm	13mm	12mm
	WCDMA II			
	LTE Band 2			
2600 Head	LTE Band 41	13mm	13mm	12mm

Proximity Sensor Triggering Distance Measurement Results – Bottom Side

DUT Moving Toward (Trigger) and Away (Release) from the Phantom

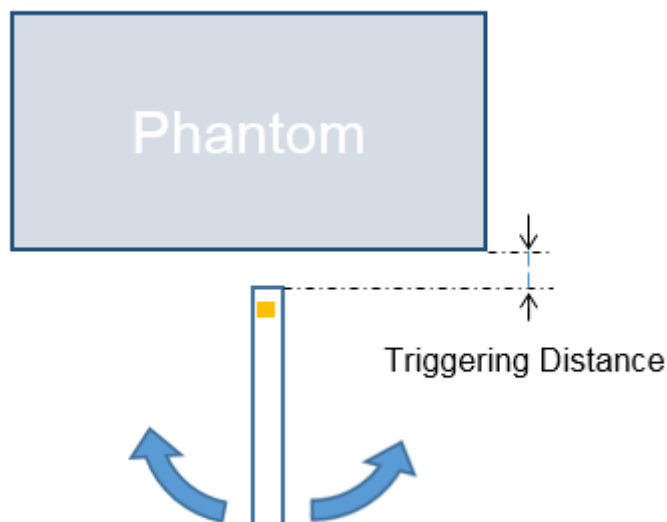
Distance (mm)	Distance to DUT Output Power (dBm)									
	18	17	16	15	14	13	12	11	10	9
GSM1900 Voice &GPRS 1Tx	31.76	31.77	31.78	31.70	31.81	28.31	28.38	28.35	28.38	28.39
GSM1900 GPRS2Tx	28.93	28.90	28.88	28.90	28.84	26.08	26.15	26.04	26.08	26.15
GSM1900 GPRS3Tx	27.23	27.21	27.18	27.18	27.17	24.33	24.35	24.26	24.30	24.26
GSM1900 GPRS4Tx	25.50	25.51	25.59	25.59	25.54	22.63	22.54	22.54	22.65	22.64
WCDMA II	23.50	23.61	23.62	23.53	23.54	20.58	20.60	20.63	20.54	20.57
WCDMA IV	23.45	23.52	23.44	23.45	23.45	20.53	20.50	20.50	20.56	20.55
LTE Band 2	23.87	23.89	23.79	23.84	23.85	20.90	20.90	20.92	20.92	20.90
LTE Band 4	23.88	23.97	23.88	23.96	23.94	20.83	20.83	20.78	20.80	20.79
LTE Band 41	24.48	24.47	24.45	24.47	24.47	21.43	21.49	21.41	21.46	21.49
LTE Band 66	23.86	23.79	23.80	23.80	23.80	20.47	20.57	20.52	20.53	20.56

Proximity Sensor Tilt Angle Assessment (KDB 616217 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom parallel to the base of the flat phantom for each band.

The EUT was rotated about Bottom for angles up to +/- 45°. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated.

This procedure was repeated until the power remained reduced for all angles up to +/- 45°.

**Proximity sensor tilt angle assessment KDB 616217 §6.4****Summary of Tilt Angle Influence to Proximity Sensor Triggering (Bottom)**

Band [MHz]	Minimum trigger distance measured according to KDB 616217 §6.2	Minimum distance at which power reduction was maintained over +/-45°	Power reduction status											
			-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°	
1750	13 mm	13 mm	On	On	On	On	On	On	On	On	On	On	On	On
1900	13 mm	13 mm	On	On	On	On	On	On	On	On	On	On	On	On
2600	13 mm	13 mm	On	On	On	On	On	On	On	On	On	On	On	On

Summary of Tilt Angle Influence to Proximity Sensor Triggering (Left)

Band [MHz]	Minimum trigger distance measured according to KDB 616217 §6.2	Minimum distance at which power reduction was maintained over +/-45°	Power reduction status											
			-45°	-40°	-30°	-20°	-10°	0°	10°	20°	30°	40°	45°	
1750	11 mm	11 mm	On	On	On	On	On	On	On	On	On	On	On	On
1900	11 mm	11 mm	On	On	On	On	On	On	On	On	On	On	On	On
2600	11 mm	11 mm	On	On	On	On	On	On	On	On	On	On	On	On

End of test report