

Produkte

Products

Prüfbericht - Nr.: Test Report No.:	14043220 00)1		Seite 1 von 16 Page 1 of 16
Auftraggeber: Client:	Shing Hing Indus Rm 2105-06, 21/F 18 Cheung Lee St Hong Kong	, Cheung Tat	Centre an	
Gegenstand der Prüfung: Test Item:	Short Range Dev	ice - Bluetoot	h Dartboard	
Bezeichnung: Identification:	GUZ SIGMA		Serien-Nr.: Serial No.:	Engineering sample
Wareneingangs-Nr.: Receipt No.:	A000323181-003		Eingangsdatum: Date of Receipt:	02.03.2016
Prüfort: Testing Location:	Hong Kong Produ	tre, 14 Wang Ta Ictivity Counc	ai Road, Kowloon Bay,	, Kowloon, Hong Kong g
Zustand des Prüfgegenstan Condition of test item at delive	ndes bei Anlieferung ery:		Test samples are no for testing.	ot damaged and suitable
Prüfgrundlage: Test Specification:	FCC Part 15 Sub ANSI C63.10-2013			
Prüfergebnis: Test Results:	genannter Prufgru	undlage.	Gerät wurde geprü	ft und entspricht oben
Prüflaboratorium: Testing Laboratory:	TÜV Rheinland Ho	ong Kong Ltd nancial Global		i Road, Kowloon Bay,
geprüft/ tested by:		kontrolliert/	reviewed by:	
Benny Lau30.05.2016Senior Project MailDatumName/StellungDateName/Position	anager Unterschrift Signature	30.05.2010 Datum Date	Sharon Li 6 Department Manag Name/Stellung Name/Position	ger Unterschrift Signature
Sonstiges: Other Aspects FCC	ID: 2AFZWGDB-GZ	002		
F(ail) = entsprid N/A = nicht an N/T = nicht ge			reviations: P(ass) = F(ail) = N/A = N/T =	passed failed not applicable not tested
Dieser Prüfbericht bezieht sic auszugsweise vervielfältigt his test report relates to the a. m. duplicated in extracts. This	test sample. Without p	ht berechtigt n Dermission of the	icht zur Verwendung e test center this test r	eines Prüfzeichens.

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Product information

Manufacturers declarations

	Transceiver
Operating frequency range	2402 - 2480 MHz
Type of modulation	GFSK
Number of channels	40
Channel separation	2 MHz
Type of antenna	PCB Antenna
Antenna gain (dBi)	0 dBi
Power level	fix
Type of equipment	stand alone radio device
Connection to public utility power line	No
Nominal voltage	V _{nor} : 3Vdc and/ or 5 Vdc from USB
Independent Operation Modes	Transmitting

Product function and intended use

The equipment under test (EUT) is a Bluetooth low energy device.

FCC ID: 2AFZWGDB-GZ002

Models	Product description
GUZ SIGMA	Short Range Device - Bluetooth Dartboard

Submitted documents

Circuit Diagram Block Diagram Bill of material User manual Label

Independent Operation Modes

The basic operation modes are:

- Transmitting mode.

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the transmitter.



Remark

The test results in this test report are only relevant to the tested sample and does not involve any assessment in the production.



Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- During test, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer (rfpower =-6dBm). The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

Special Accessories and Auxiliary Equipment

- AC-DC adaptor model: Apple A1299 (Provided by TUV)

Countermeasures to achieve EMC Compliance

- none



Test Methodology

Radiated Emission

The radiated emission measurements of the transmitter part were performed according to the procedures in ANSI C63.10-2013.

For measurement below 1GHz - the equipment under test (EUT) was placed at the middle of the 80 cm height turntable. For measurement above 1GHz - the EUT was placed at the middle of the 1.5 m height turntable and RF absorbing material was placed on ground plane between turntable and measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

FS = R + AF + CF + FA - PA

Where FS = Field Strength in dBuV/m at 3 meters.

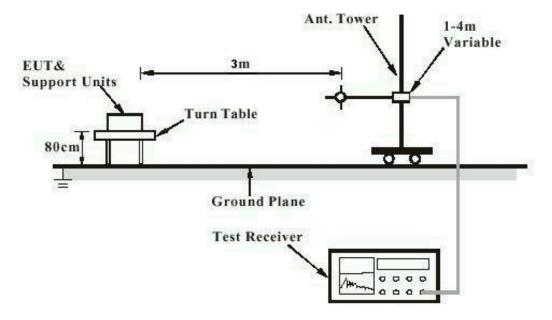
- R = Reading of Spectrum Analyzer in dBuV.
- AF = Antenna Factor in dB.
- CF = Cable Attenuation Factor in dB.
- FA = Filter Attenuation Factor in dB.
- PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.



Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

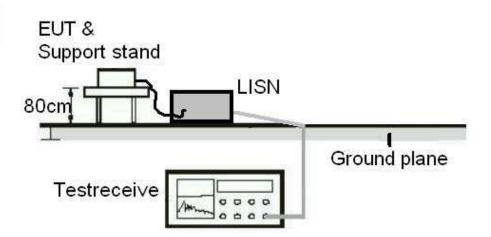
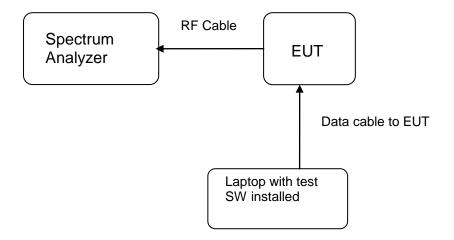




Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)





List of Test and Measurement Instruments

Hong Kong Productivity Council (Registration number: 90656)

Radiated Emission

Equipment	Manufacturer	Туре	Cal. Date	Due Date
Semi-anechoic Chamber	Frankonia	Nil	25-Apr-16	25-Apr-17
New Fully Ancheonic				
Chamber	TDK	N/A	19-Apr-16	19-Apr-17
Cable	Hubersuhner	SUCOFLEX 104	31-Mar-16	31-Mar-18
Test Receiver	R & S	ESU26	7-Dec-15	07-Dec-16
Bi-conical Antenna	R&S	HK116	1-Sep-15	01-Sep-17
Log Periodic Antenna	R&S	HL223	1-Sep-15	01-Sep-17
Coaxial cable	Harbour	LL335	10-Jun-14	10-Jun-16
Microwave amplifer 0.5- 26.5GHz, 25dB gain	HP	83017A	17-Jul-14	17-Jul-16
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	28-Oct-15	28-Oct-17
Horn Antenna	EMCO	3115	26-Aug-15	26-Aug-17
Active Loop Antenna	EMCO	6502	15-Aug-15	15-Aug-16

AC Mains Conducted Emission

Equipment	Manufacturer	Туре	Cal. Date	Due Date
Test Receiver	R&S	ESU40	7-Dec-15	07-Dec-16
RF Voltage Probe	Schwarzbeck	TK9416	10-Feb-16	10-Feb-17
LISN	R&S	ESH3-Z5	15-Jun-15	15-Jun-16
Double Shield Cable	Radiall	RG142	14-Sep-15	14-Sep-17
Pulse Limiter	R&S	ESH3-Z2	4-Jun-14	04-Jun-16

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Radio Test

Equipment	Manufacturer	Туре	Cal. Date	Due Date
Spectrum Analyzer	R&S	FSP30	12-Jan-15	12-Jan-2017



Measurement Uncertainty

The estimated combined standard uncertainty for power-line conducted emissions measurements is ±3.43dB.

The estimated combined standard uncertainty for radiated emissions measurements is ± 5.10 dB (30MHz to 200MHz) and ± 5.08 dB (200MHz to 1000MHz) and is ± 5.10 dB (30MHz to 200MHz) and ± 5.08 dB (above 1GHz).

The estimated combined standard uncertainty for antenna conducted emission is ±1.56dB

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for the level of confidence is approximately 95%.



Results FCC Part 15 – Subpart C

FCC 15.203 – Anter	nna Requirement 1	Pass		
FCC Requirement: No antenna other than that furnished by the responsible party shall be used windevice				
Results:	a) Antenna type: b) Manufacturer and model no: c) Peak Gain:	Integral PCB antenna N/A 0 dBi		
Verdict:	Pass			

FCC 15.204 – Antenna Requirement 2

N/A

FCC Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used.
Verdict:	N/A

FCC 15.207 – Conducted Emission on AC Mains						Pass	
	: Quasi-pea : 9 kHz ge : 120Vac 60	input port of pow k and Average	ver supply				
Requirement	: 15.207(a)						
Results:	Pass						
Live measur	rement						
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict	
0,15 – 0,5	No peak found			66 - 56	56 - 46	Pass	
> 0,5 - 5	0.726	37.7	20.0	56	46	Pass	
> 5 - 30	No peak found			60	50	Pass	
Neutral mea	surement						
Neutral mea Frequency range (MHz)	surement Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict	
Frequency range	Frequency					Verdict Pass	



> 5 - 30	No peak found			60	50	Pass	
Results:	Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.						
The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1, page 2.							

FCC 15.247 (a)(2) – 6dB Bandwidth Measurement Pass FCC Requirement: Systems using digital modulation techniques may operate in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.				
Detector : Peak RBW/VBW : 100KHz/ Supply voltage : 3.7 Vdc Temperature : 23°C Humidity : 50%	e Iry antenna port	ppendix 1		
Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (kHz)	
2402	2401.664	2402.344	680	
2440	2439.656	2440.340	684	
2480	2479.644	2480.332	688	
FCC 15.247(b)(3) – Maximu	m Peak Conducted Out	put Power	Pass	
			100-2483.5 MHz, and 572	

Test Specification	: ANSI C63.10 – 2013
Mode of operation	: TX mode
Port of testing	: Temporary antenna port
Detector	: Peak
Supply voltage	: 3.7 Vdc
Temperature	: 23°C
Humidity	: 50%

Results: For test protocols please refer to Appendix 1

Frequency (MHz)	Measured Output Power (dBm)	Limit (W/dBm)	Verdict
2402	-7.61	1 / 30.0	Pass
2440	-8.22	1 / 30.0	Pass
2480	-9.06	1 / 30.0	Pass



FCC 15.247(e) – Power Spectral Density			Pass	
FCC Requirement: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Test Specification: ANSI C63.10 - 2013Mode of operation: TX modePort of testing: Temporary antenna portDetector: PeakRBW/VBW: $\geq 100 \text{ KHz} / \geq 3x \text{RBW}$ span: $\geq 1.5 \text{ x DTS BW}$ Supply voltage: 3.7 VdcTemperature: 23°CHumidity: 50%				
Results: For test protocols please refer to Appendix 1				
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict	
2402	-7.96	8.0	Pass	
2440	-8.70 8.0		Pass	
2480	-9.29 8.0 Pass			

FCC 15.247(d) – Spurious Conducted Emissions				Pass	3
Mode of operation : Port of testing : Detector : RBW/VBW : Supply voltage : Temperature :	: ANSI C63.10 – 2013 : TX mode : Temporary antenna port : Peak : 100 kHz / 300 kHz : 3.7 Vdc : 23 °C : 50 %				
FCC Requirement:	FCC Requirement: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Results:Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.Only the worst cases is shown below. For test protocols refer to Appendix 1					ssible
Operating	Spurious	Spurious Level	Reference value	Delta	Verdict
frequency	frequency	(dBm)	(dBm)	(dB)	
(MHz)	(MHz)				
2402	2399.280	-42.26	-7.96	-34.30	Pass
2440	23128.000	-31.97	-8.70	-23.27	Pass
2480	24568.000	-31.46	-9.29	-22.17	Pass



FCC 15.205 – Radi	ated Emissions in R	Restricted Frequency Bands	Pass
Test Specification	: ANSI C63.10 – 201	3	
Mode of operation		-	
Port of testing			
	: Peak		
RBW/VBW	100 kHz / 300 kHz for f < 1 GHz 1 MHz / 3 MHz for f > 1 GHz		
Supply voltage	3.7 Vdc		
	23°C		
Humidity	50%		
FCC Requirement:	level of the desired	power. In addition, radiated em n section15.205(a), must also c	and at least 20dB below the highest nissions which fall in the restricted comply with the radiated emission
Results:		conducted to determine the wo	orst-case mode from all possible data rate.
	All three transmit fro	equency modes comply with th	e field strength within the restricted
	bands. There is no	spurious found below 30MHz.	
Mode: 2402MHz TX	<	Vertical Polarization	
Freq		Level	Limit/ Detector
MHz		dBuV/m	dBuV/m
MHz 2390.0	00	dBuV/m 45.09	dBuV/m 74.0 / PK
MHz 2390.0 2390.0	00 00	dBuV/m 45.09 33.07	dBuV/m 74.0 / PK 54.0 / AV
MHz 2390.0 2390.0 4804.0	00 00 00 00	dBuV/m 45.09 33.07 57.21	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK
MHz 2390.0 2390.0 4804.0 4804.0	00 00 00 00 00	dBuV/m 45.09 33.07 57.21 49.28	dBuV/m 74.0 / PK 54.0 / AV
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2	00 00 00 00 00 X	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq	00 00 00 00 00 X	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV Limit/ Detector
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz	00 00 00 00 00 X	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0	00 00 00 00 00 X 2 00	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz	00 00 00 00 00 X X 00 00 00	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0	00 00 00 00 00 X X I	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0	00 00 00 00 00 X X 1	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq	00 00 00 00 00 X X 1 00 00 00 00 00 00 X	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz	00 00 00 00 00 X X 1 00 00 00 00 00 00 00 00 00 00 00 00 0	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Freq MHz Freq MHz 4880.0	00 00 00 00 00 X X 1 	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz	00 00 00 00 00 X X 1 	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK
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MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq MHz 4880.0 4880.0 4880.0 Freq	00 00 00 00 00 X X 00 00 00 00 00 00 00	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 1 <tr< td=""></tr<>
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 2390.0 4804.0 4804.0 4804.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz 4880.0 4880.0 4880.0 4880.0	00 00 00 00 00 X X 1 00 00 00 00 00 00 00 00 00 00 00 00 0	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level dBuV/m	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 100 / PK 100 / PK
MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq MHz 4880.0 4880.0 TFreq MHz 500 - 200 -	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level	dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 1 <tr< td=""></tr<>



Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	49.28	74.0 / PK
2483.500	37.99	54.0 / AV
4960.000	55.77	74.0 / PK
4960.000	46.63	54.0 / AV
Mode: 2480 MHz TX	Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	48.73	74.0 / PK
2483.500	37.44	54.0 / AV
7440.000	55.81	74.0 / PK
7440.000	44.36	54.0 / AV