

Data File : VV011965.D
Acq On : 23 Jul 2019 15:18
Operator : SY/MD
Sample : K3890-03DL 5X
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A52S1DL

Quant Time: Jul 24 05:56:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 05:52:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	143963	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	137761	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	68469	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	40640	5.43	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.60%
7) Chloroethane-d5	1.59	69	31419	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.80%
11) 1,1-Dichloroethene-d2	2.13	63	64256	4.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.20%
20) 2-Butanone-d5	3.94	46	113544	51.92	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.84%
24) Chloroform-d	4.40	84	97606	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.08	65	53852	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.60%
32) Benzene-d6	5.10	84	204610	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
36) 1,2-Dichloropropane-d6	6.12	67	57637	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%
41) Toluene-d8	7.36	98	185432	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.00%
43) trans-1,3-Dichloropropene-	7.67	79	22771	5.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.00%
46) 2-Hexanone-d5	8.13	63	95055	53.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.10%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	39549	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	73877	5.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.00%

Target Compounds

					Qvalue
5) Vinyl chloride	1.33	62	17543	1.984	ug/L 96
8) Chloroethane	1.60	64	46974	8.981	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	781	0.107	ug/L # 47
12) 1,1-Dichloroethene	2.15	96	2826	0.431	ug/L # 1
13) Acetone	2.19	43	2927	2.483	ug/L 97
19) 1,1-Dichloroethane	3.23	63	147984	8.211	ug/L 97
22) cis-1,2-Dichloroethene	3.97	96	10920	0.996	ug/L 93
25) Chloroform	4.43	83	8103	0.372	ug/L 96
29) 1,1,1-Trichloroethane	4.66	97	84441	4.789	ug/L 98
30) Cyclohexane	4.72	56	1643	0.099	ug/L # 42
31) Carbon tetrachloride	4.66	117	10658	0.671	ug/L 99
34) Trichloroethene	5.96	95	3234	0.287	ug/L 95
35) Methylcyclohexane	6.12	83	14800	0.845	ug/L # 17
37) 1,2-Dichloropropane	6.12	63	7257	0.745	ug/L # 84
39) cis-1,3-Dichloropropene	7.03	75	1748	0.121	ug/L # 71
42) Toluene	7.43	91	245396	5.642	ug/L 99
44) trans-1,3-Dichloropropene	7.66	75	1083	0.094	ug/L # 83

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV072319\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 05:52:52 2019
Response via : Initial Calibration

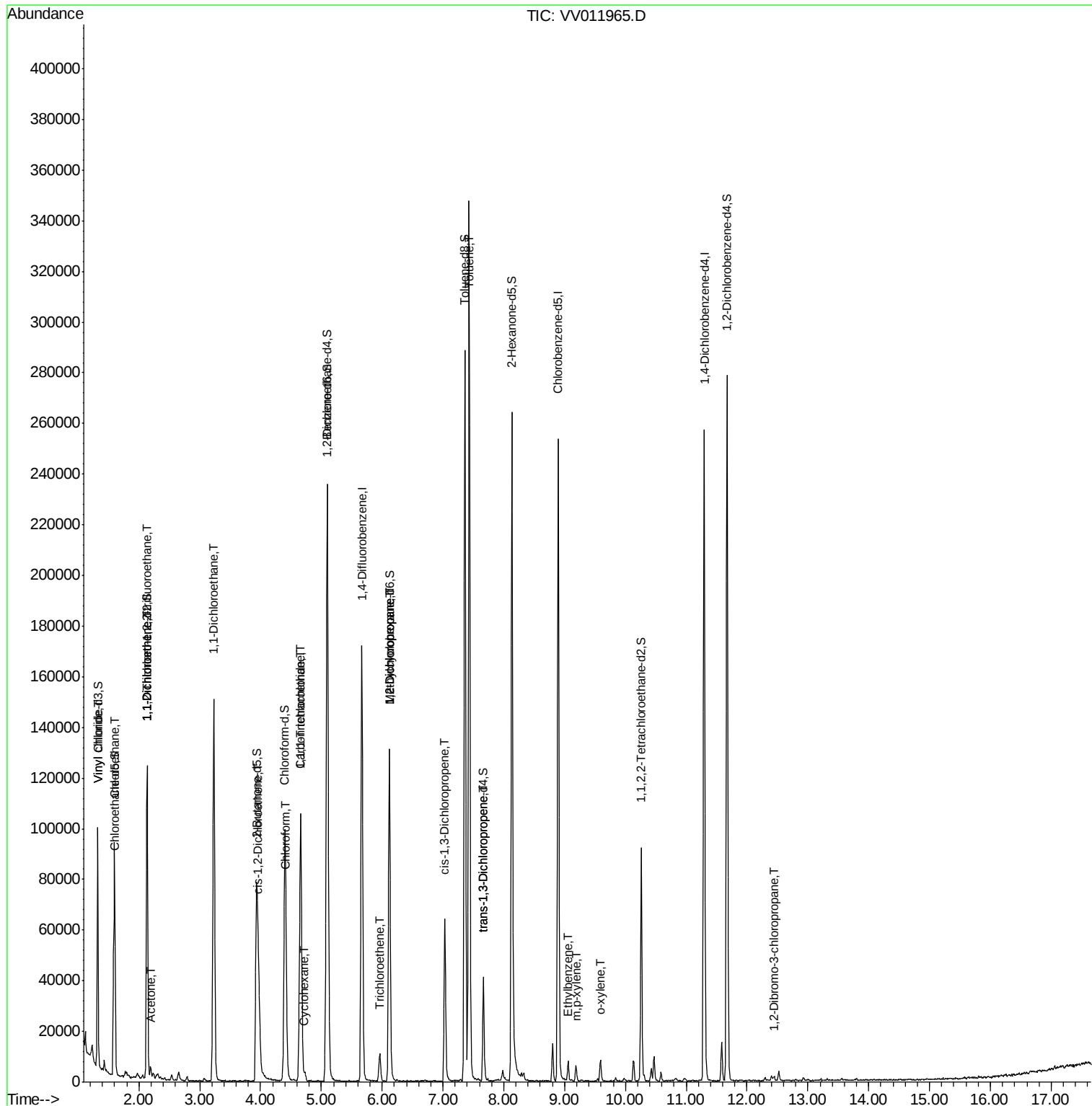
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.06	91	5257	0.106	ug/L	99
53) m,p-xylene	9.19	106	1892	0.100	ug/L	66
54) o-xylene	9.59	106	2038	0.114	ug/L	87
66) 1,2-Dibromo-3-chloropropan	12.44	75	295	0.246	ug/L #	1

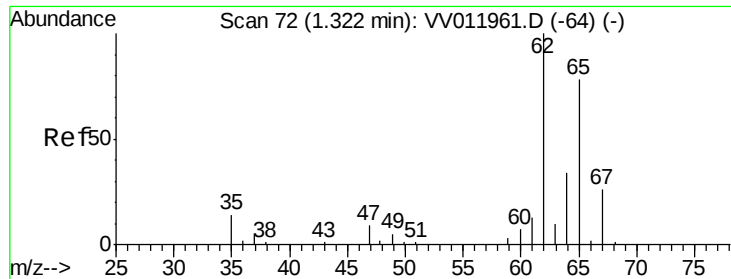
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.984 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

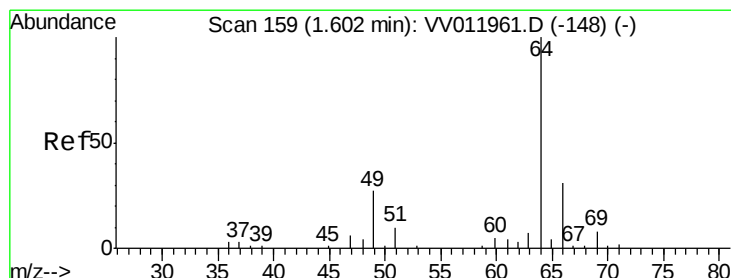
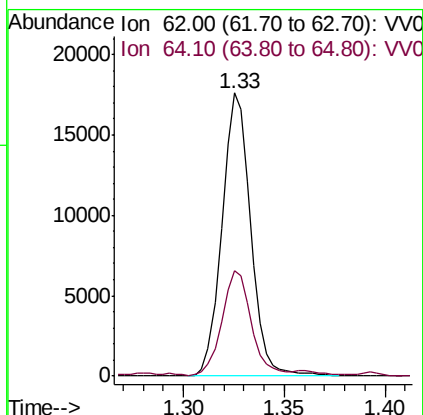
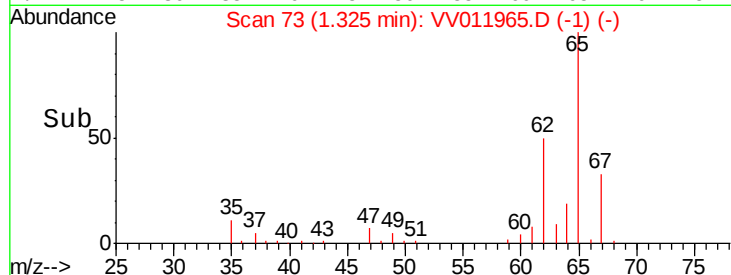
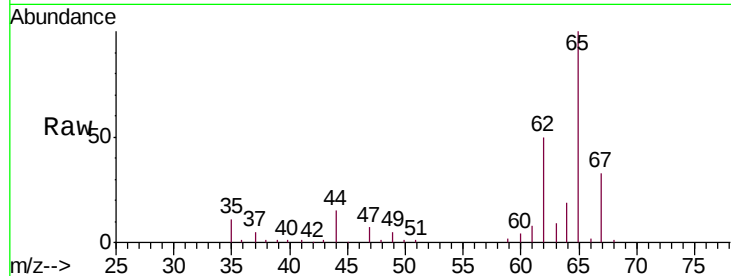
A52S1DL

Tgt Ion: 62 Resp: 17543

Ion Ratio Lower Upper

62 100

64 37.1 24.3 45.1



#8

Chloroethane

Concen: 8.981 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV011965.D

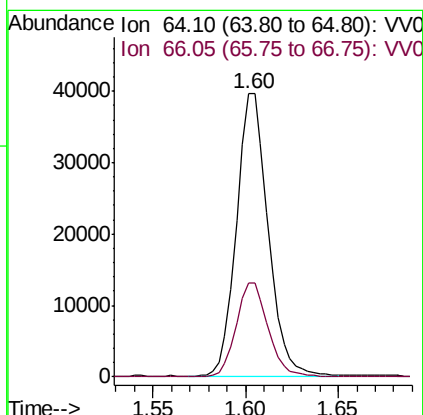
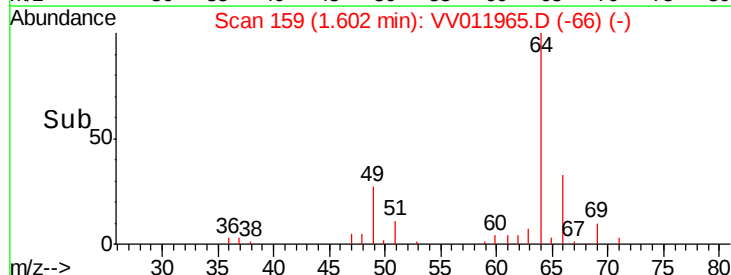
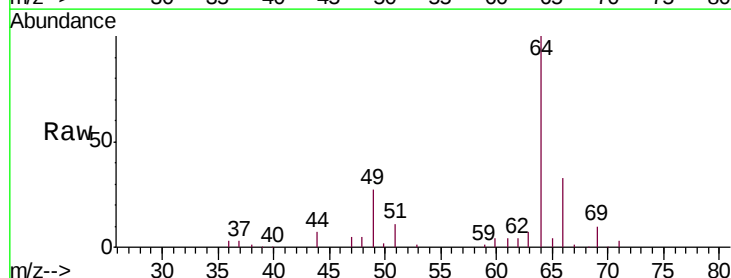
Acq: 23 Jul 2019 15:18

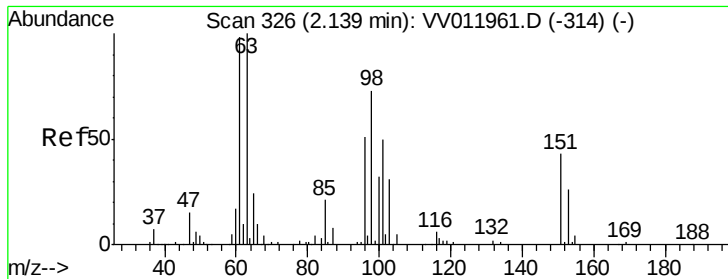
Tgt Ion: 64 Resp: 46974

Ion Ratio Lower Upper

64 100

66 33.4 21.8 40.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.107 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

A52S1DL

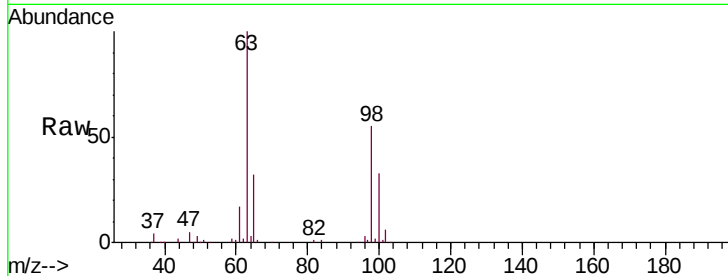
Tgt Ion: 101 Resp: 781

Ion Ratio Lower Upper

101 100

85 43.8 37.0 55.6

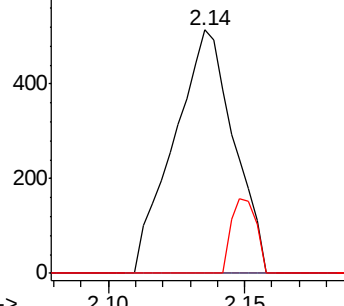
151 13.1 68.3 102.5#



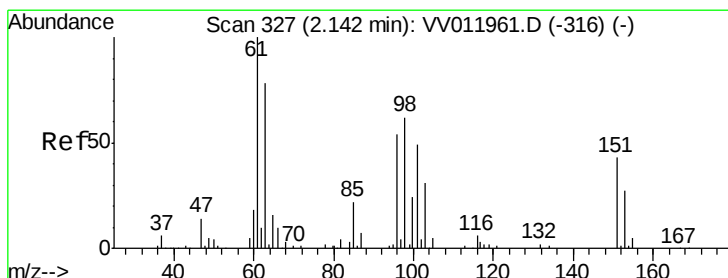
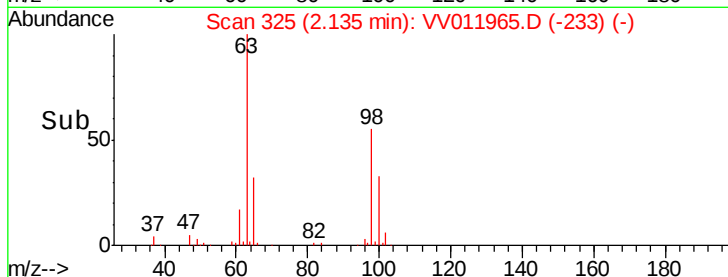
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.431 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

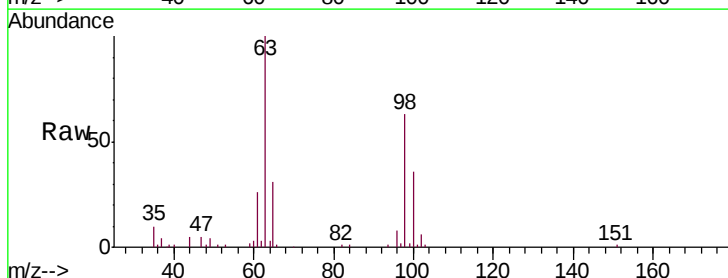
Tgt Ion: 96 Resp: 2826

Ion Ratio Lower Upper

96 100

61 328.7 132.7 246.5#

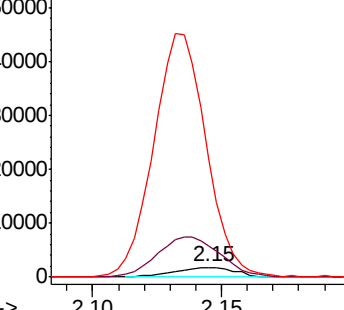
63 1254.4 104.0 193.1#



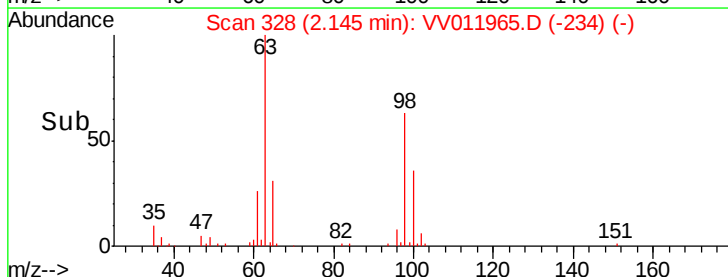
Abundance Ion 96.00 (95.70 to 96.70): VV0

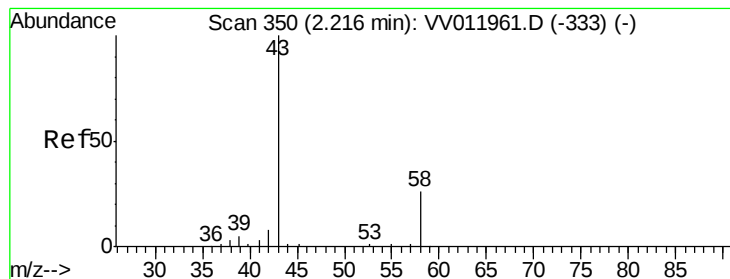
Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0



Time-->





#13

Acetone

Concen: 2.483 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

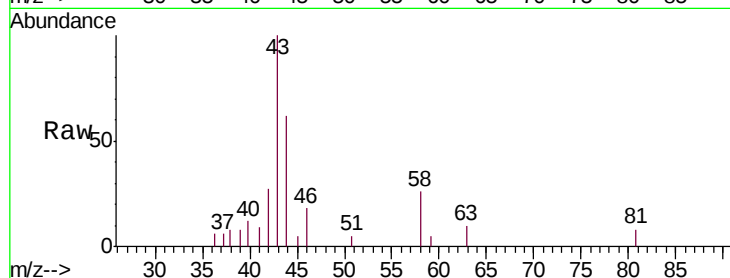
A52S1DL

Tgt Ion: 43 Resp: 2927

Ion Ratio Lower Upper

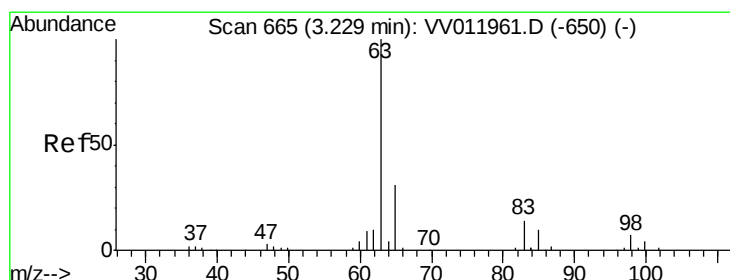
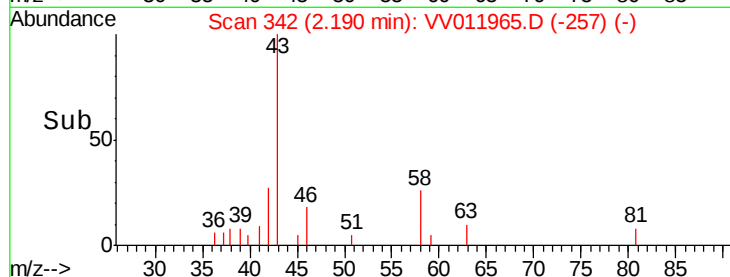
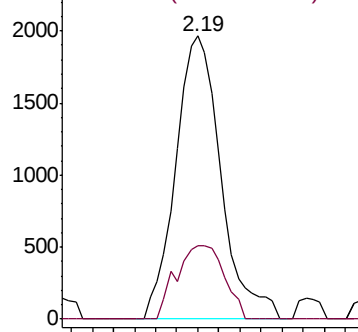
43 100

58 27.4 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#19

1,1-Dichloroethane

Concen: 8.211 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

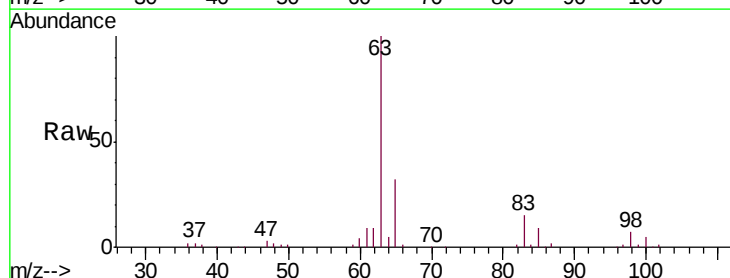
Tgt Ion: 63 Resp: 147984

Ion Ratio Lower Upper

63 100

65 31.6 23.5 43.7

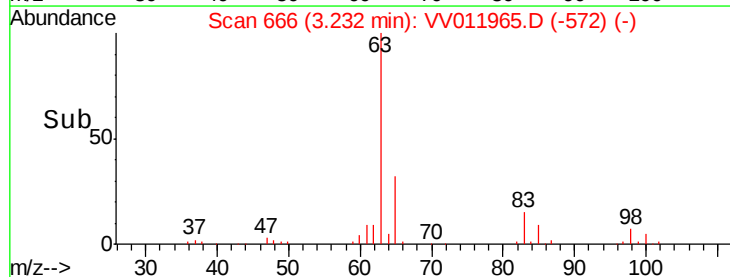
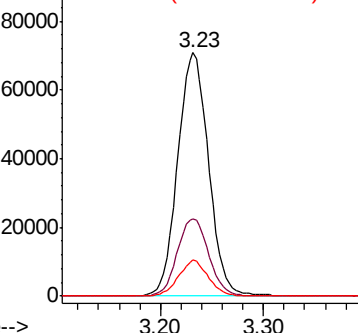
83 14.8 9.7 18.1

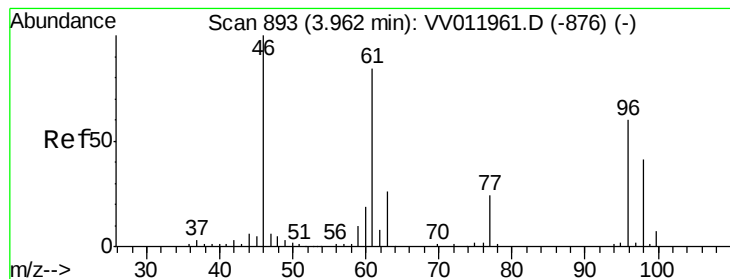


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



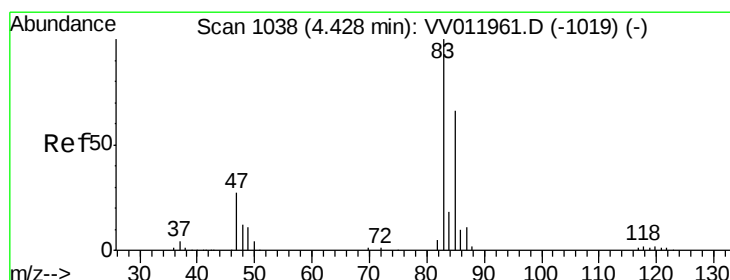
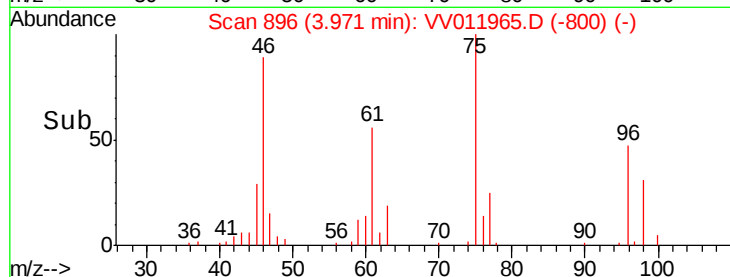
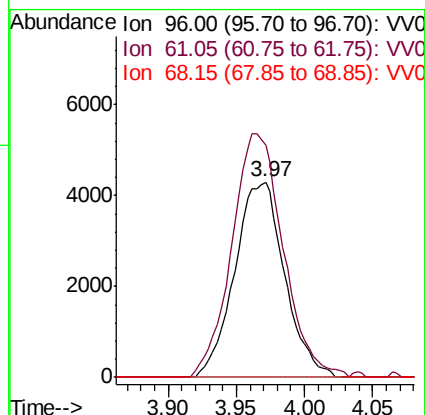
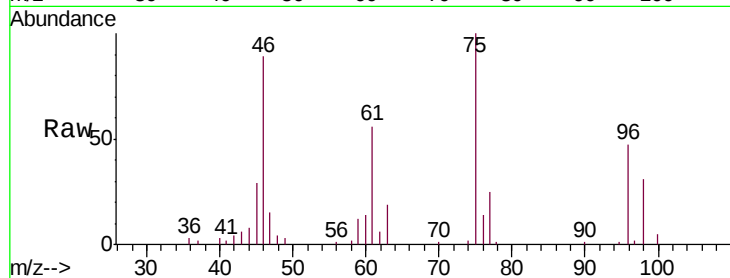


#22

cis-1,2-Dichloroethene
 Concen: 0.996 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV011965.D
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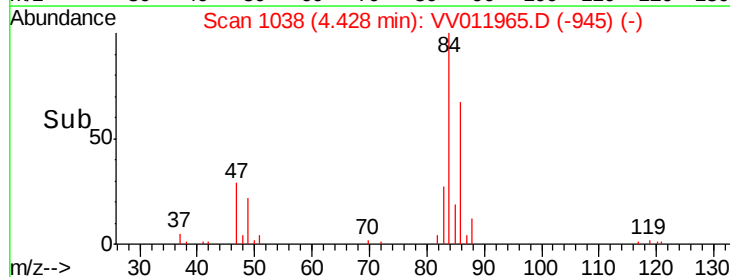
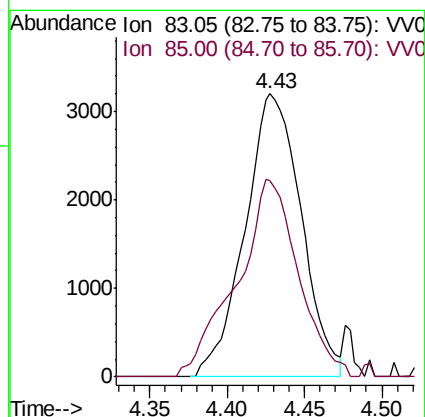
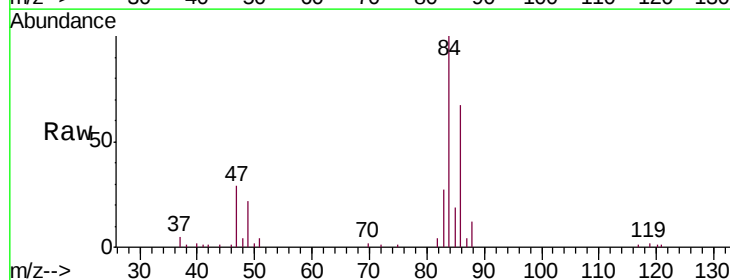
Tgt Ion: 96 Resp: 10920
 Ion Ratio Lower Upper
 96 100
 61 118.9 89.0 165.2
 68 0.0 0.0 0.0

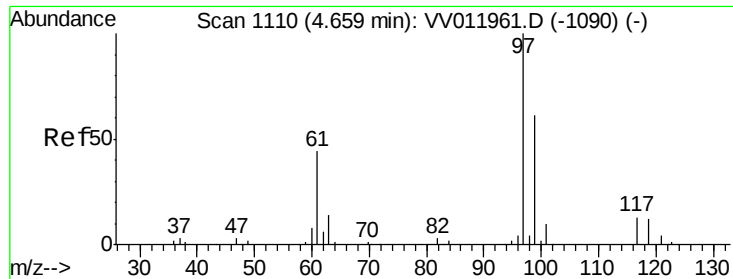


#25

Chloroform
 Concen: 0.372 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: VV011965.D
 Acq: 23 Jul 2019 15:18

Tgt Ion: 83 Resp: 8103
 Ion Ratio Lower Upper
 83 100
 85 69.3 46.5 86.3

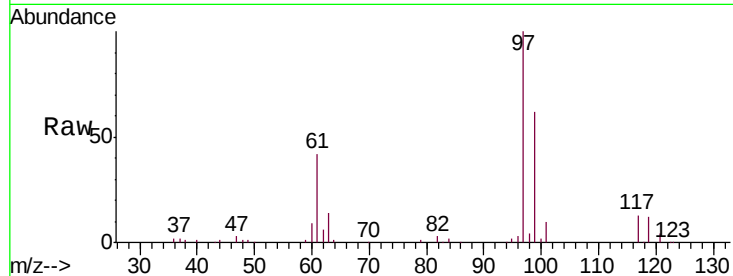




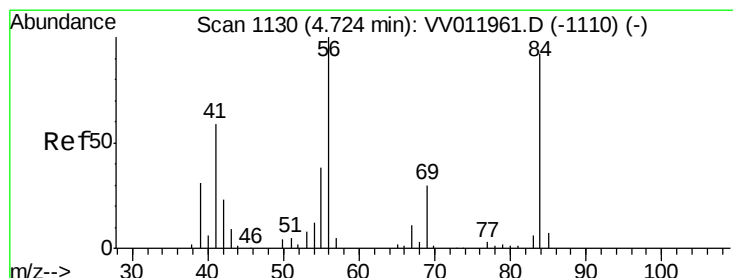
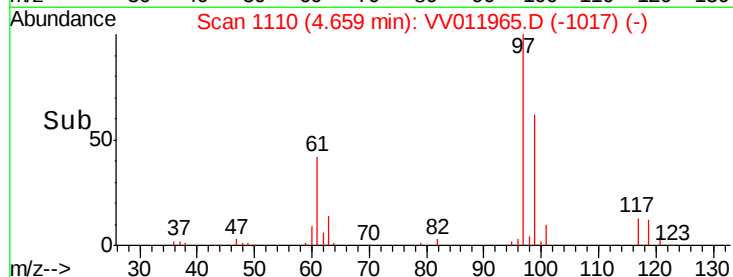
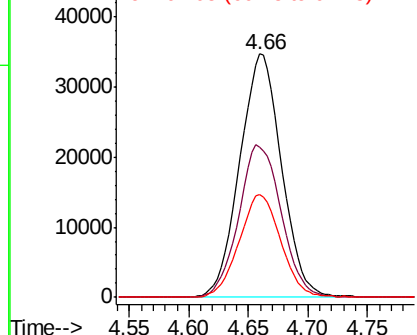
#29
 1,1,1-Trichloroethane
 Concen: 4.789 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. -0.00 min
 Lab File: VV011965.D
 Acq: 23 Jul 2019 15:18

Instrument :
 MSVOA_V
 ClientSampleId :
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Tgt Ion: 97 Resp: 84441
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.7 77.5
 61 42.2 35.1 52.7

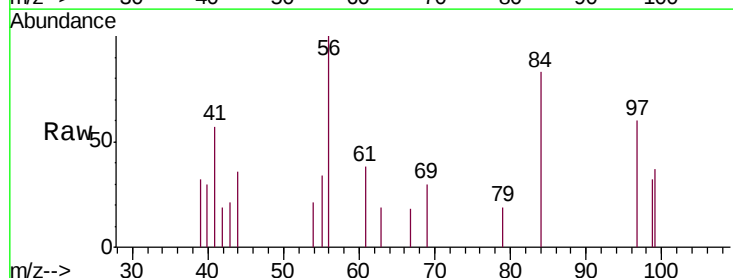


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

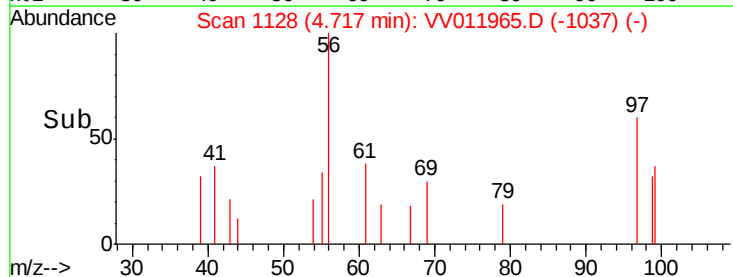
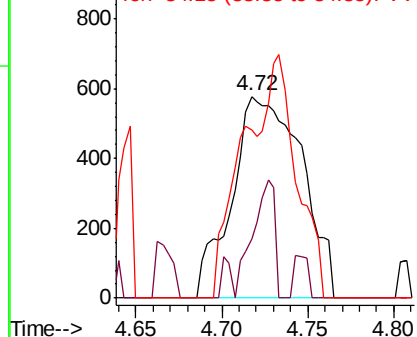


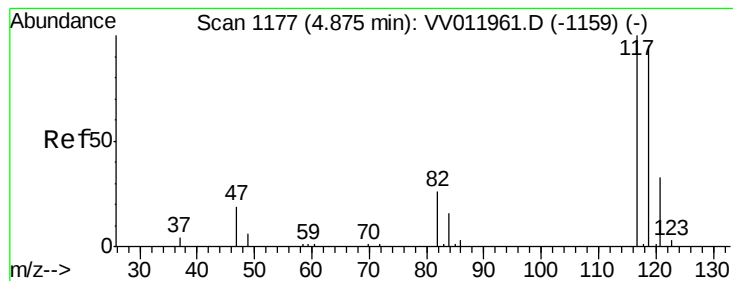
#30
 Cyclohexane
 Concen: 0.099 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. -0.01 min
 Lab File: VV011965.D
 Acq: 23 Jul 2019 15:18

Tgt Ion: 56 Resp: 1643
 Ion Ratio Lower Upper
 56 100
 69 2.6 25.4 38.2#
 84 34.8 73.4 110.0#



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.671 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.22 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

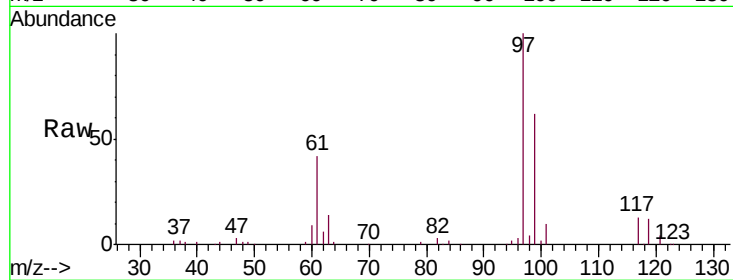
A52S1DL

Tgt Ion:117 Resp: 10658

Ion Ratio Lower Upper

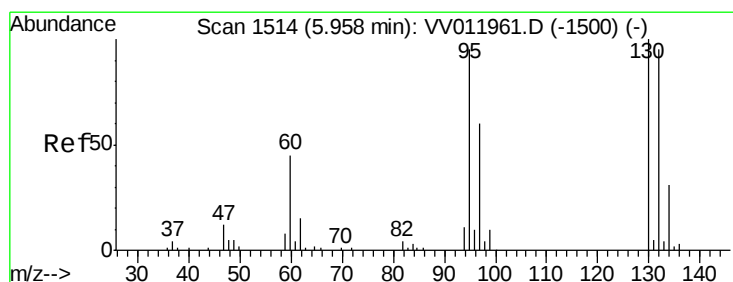
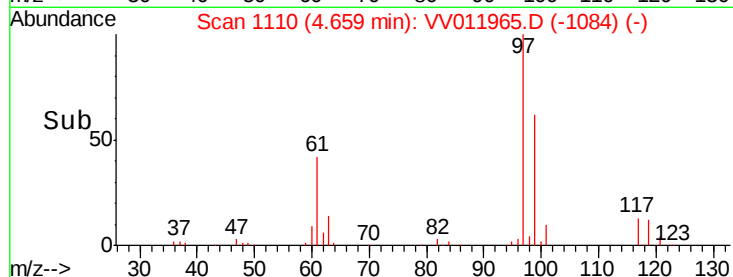
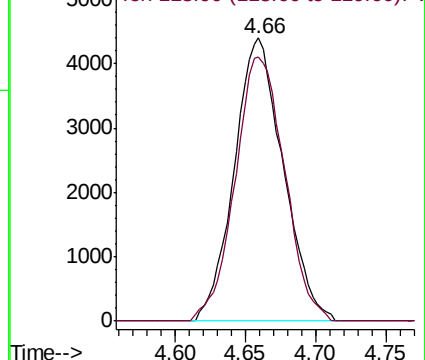
117 100

119 94.5 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 0.287 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.01 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Tgt Ion: 95 Resp: 3234

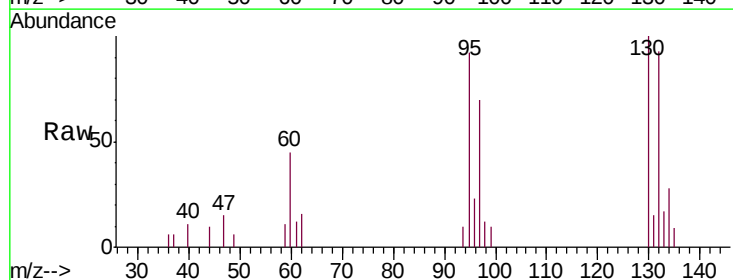
Ion Ratio Lower Upper

95 100

97 75.9 45.6 84.6

132 101.6 71.3 132.3

130 108.9 72.8 135.2

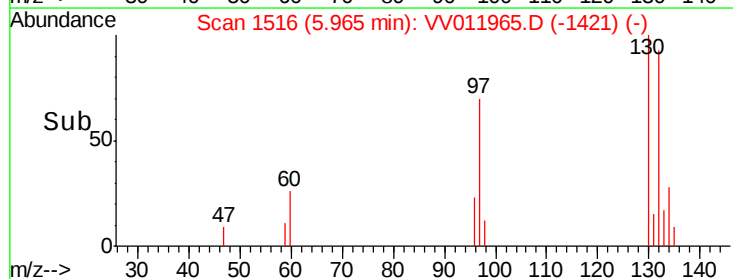
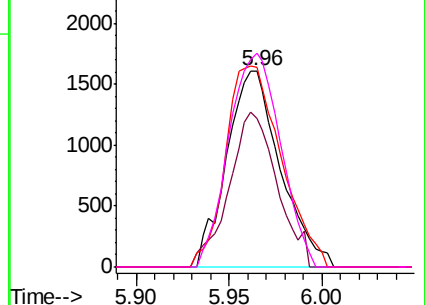


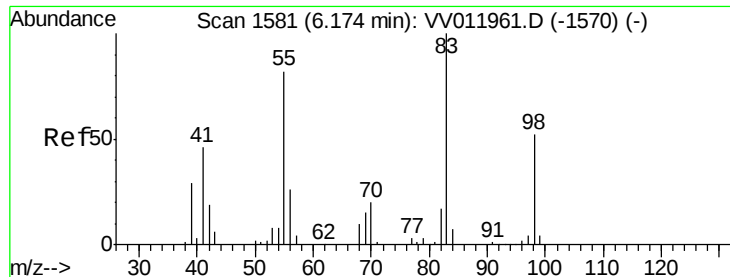
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

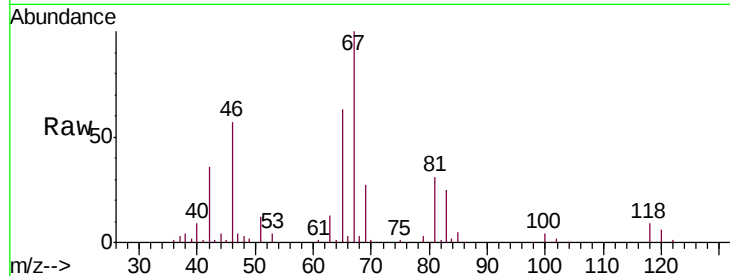




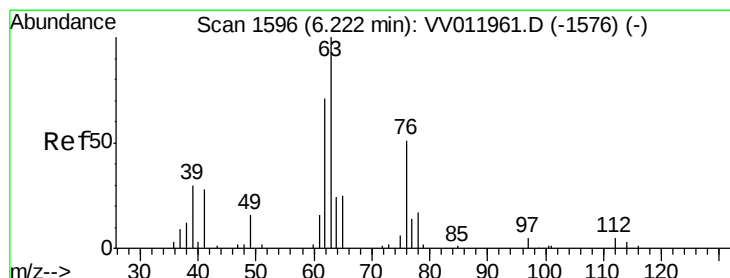
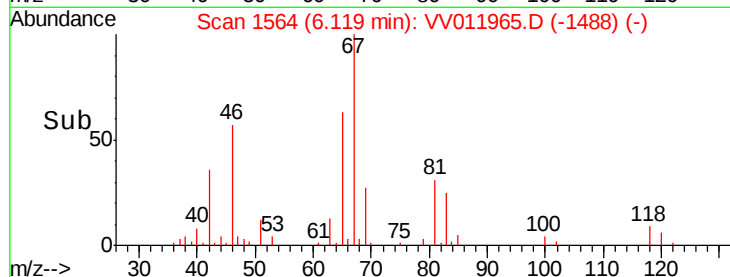
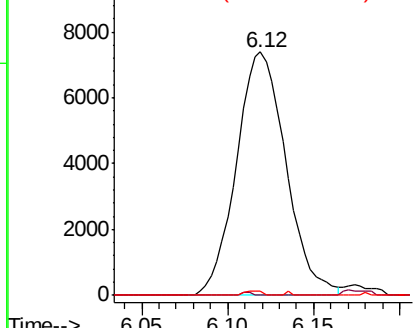
#35
Methylcyclohexane
Concen: 0.845 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.05 min
Lab File: VV011965.D
Acq: 23 Jul 2019 15:18

Instrument :
MSVOA_V
ClientSampleId :
A52S1DL

Tgt Ion: 83 Resp: 14800
Ion Ratio Lower Upper
83 100
55 0.3 63.0 94.4#
98 0.6 41.4 62.0#

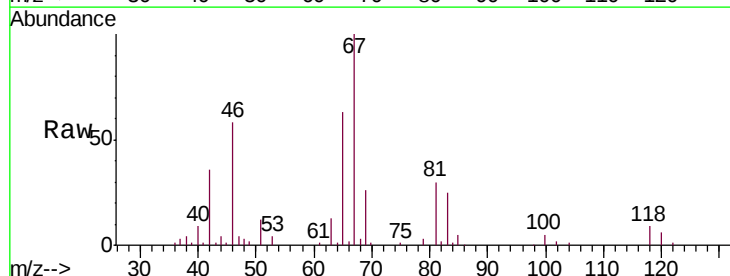


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

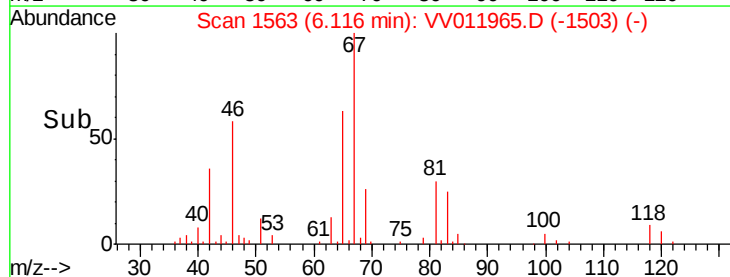
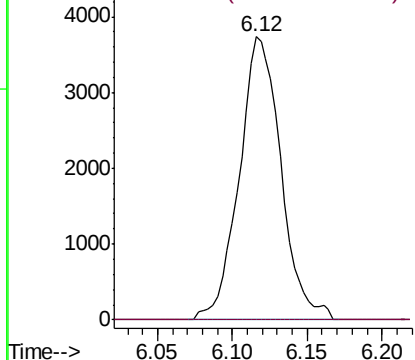


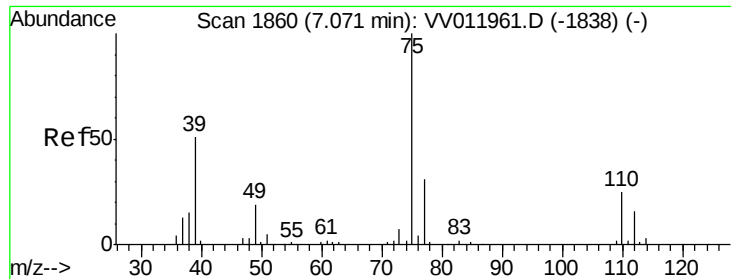
#37
1,2-Dichloropropane
Concen: 0.745 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.11 min
Lab File: VV011965.D
Acq: 23 Jul 2019 15:18

Tgt Ion: 63 Resp: 7257
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.4#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

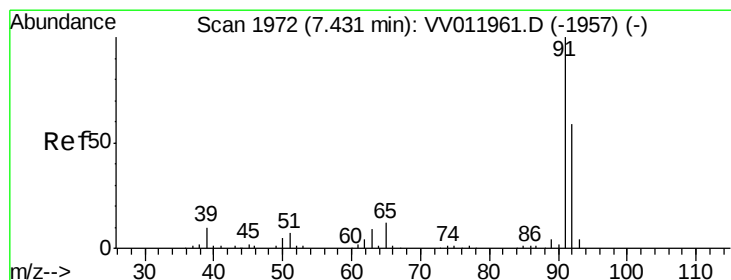
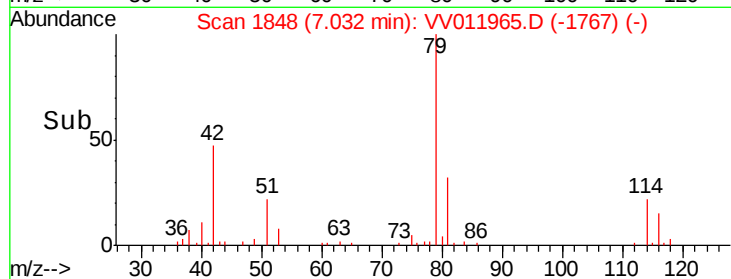
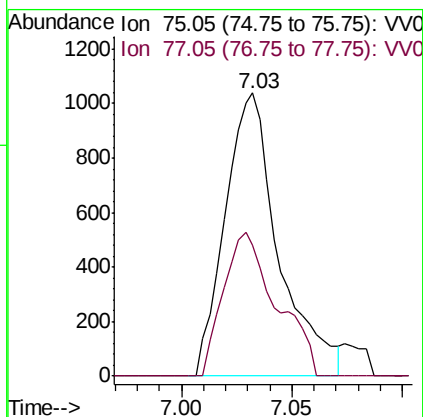
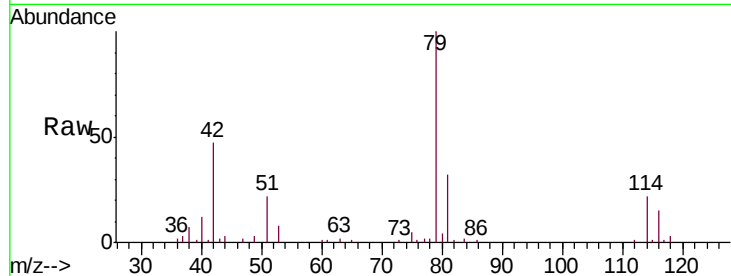




#39
 cis-1,3-Dichloropropene
 Concen: 0.121 ug/L
 RT: 7.03 min Scan# 1848
 Delta R.T. -0.04 min
 Lab File: VV011965.D
 Acq: 23 Jul 2019 15:18

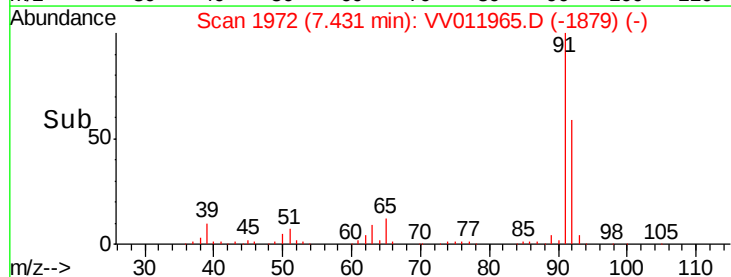
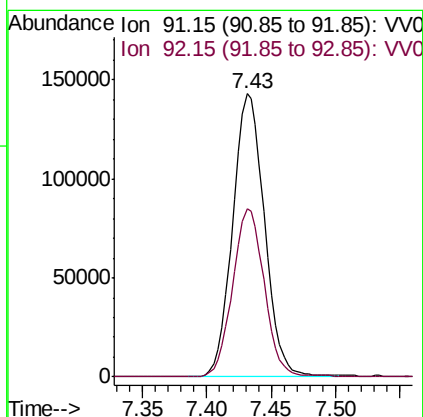
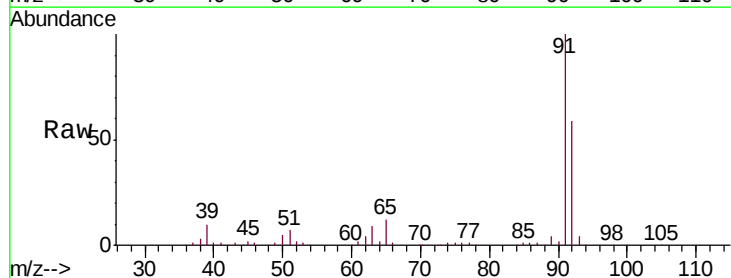
Instrument :
 MSVOA_V
 ClientSampleId :
 A52S1DL

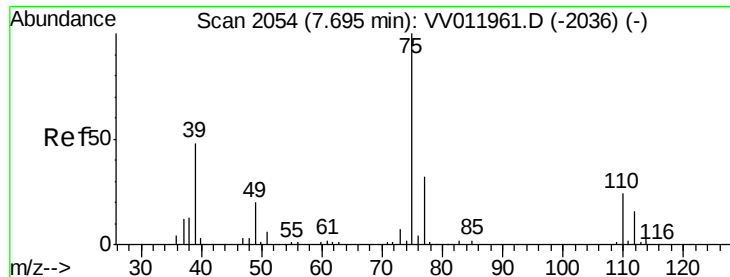
Tgt Ion: 75 Resp: 1748
 Ion Ratio Lower Upper
 75 100
 77 46.5 21.3 39.6#



#42
 Toluene
 Concen: 5.642 ug/L
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VV011965.D
 Acq: 23 Jul 2019 15:18

Tgt Ion: 91 Resp: 245396
 Ion Ratio Lower Upper
 91 100
 92 59.2 41.9 77.9





#44

trans-1,3-Dichloropropene

Concen: 0.094 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

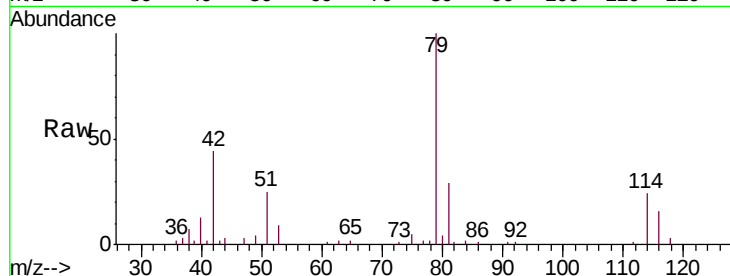
A52S1DL

Tgt Ion: 75 Resp: 1083

Ion Ratio Lower Upper

75 100

77 40.9 22.0 40.8#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.66

600

400

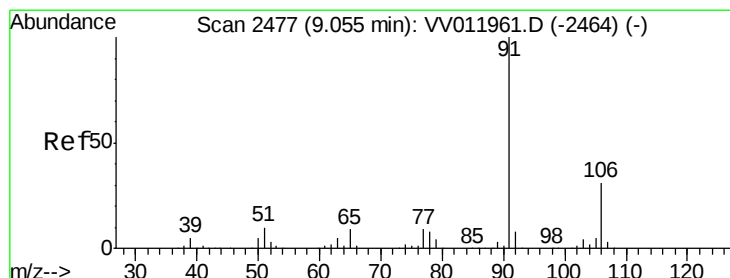
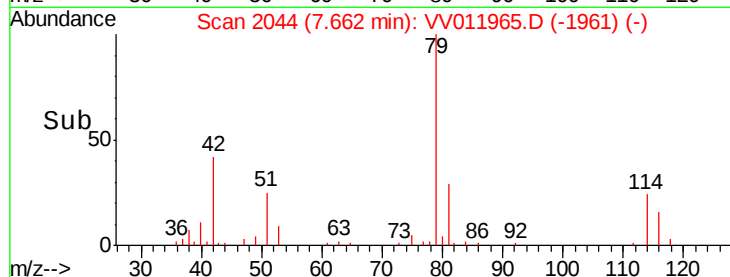
200

0

7.65

7.70

Time-->



#52

Ethylbenzene

Concen: 0.106 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV011965.D

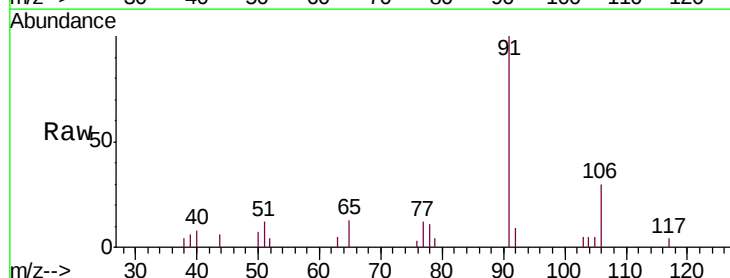
Acq: 23 Jul 2019 15:18

Tgt Ion: 91 Resp: 5257

Ion Ratio Lower Upper

91 100

106 30.0 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V

9.06

3000

2000

1000

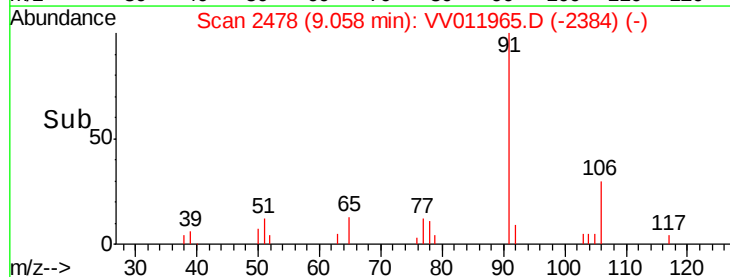
0

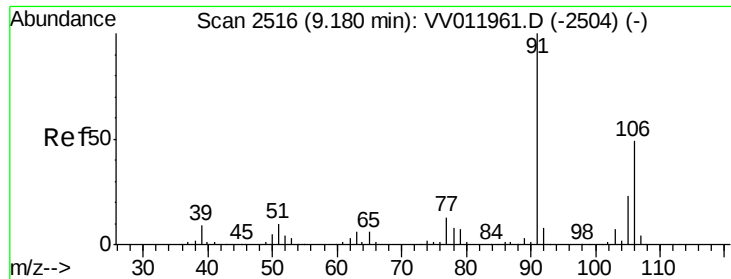
9.00

9.05

9.10

Time-->





#53

m,p-xylene

Concen: 0.100 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.01 min

Lab File: VV011965.D

Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

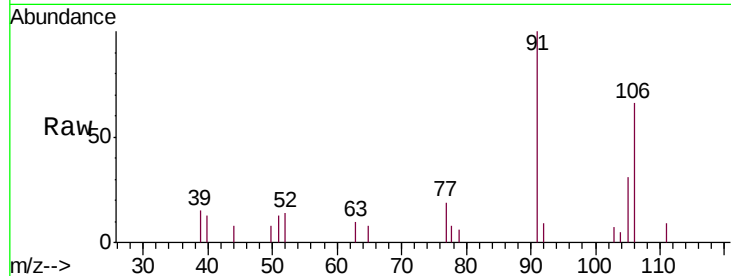
A52S1DL

Tgt Ion:106 Resp: 1892

Ion Ratio Lower Upper

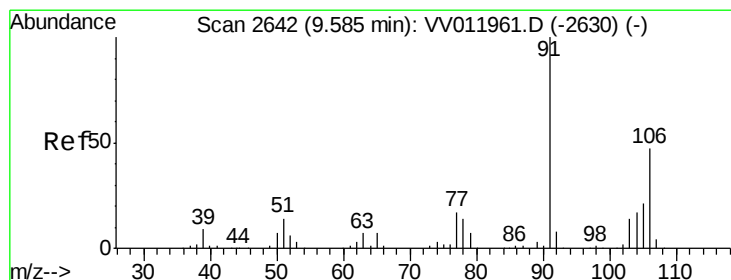
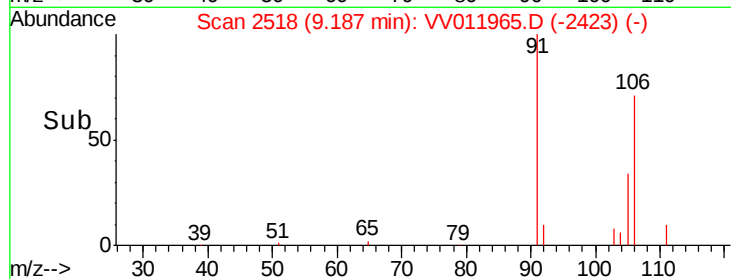
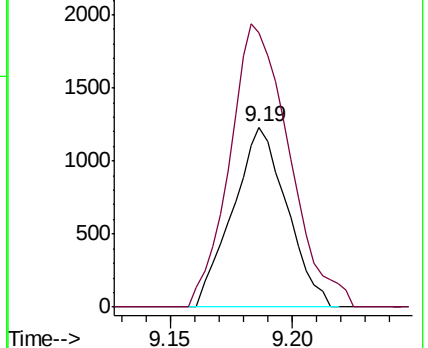
106 100

91 152.5 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.114 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011965.D

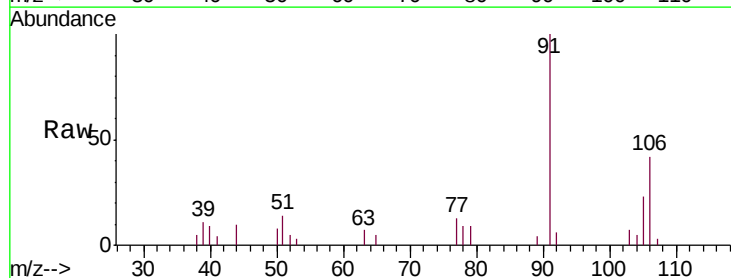
Acq: 23 Jul 2019 15:18

Tgt Ion:106 Resp: 2038

Ion Ratio Lower Upper

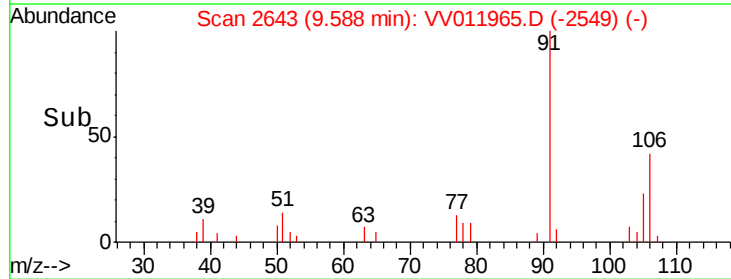
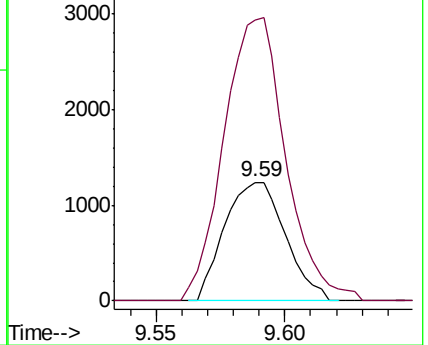
106 100

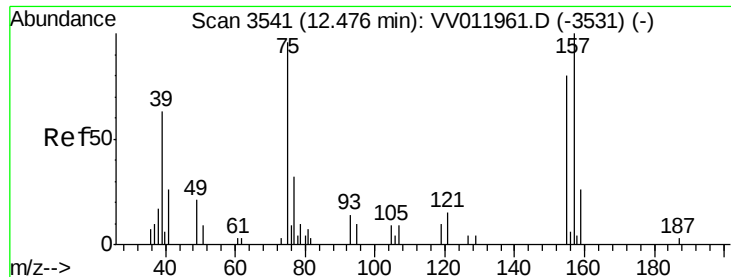
91 236.3 151.0 280.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#66

1,2-Dibromo-3-chloropropane

Concen: 0.246 ug/L

RT: 12.44 min Scan# 3531

Delta R.T. -0.03 min

Lab File: VV011965.D

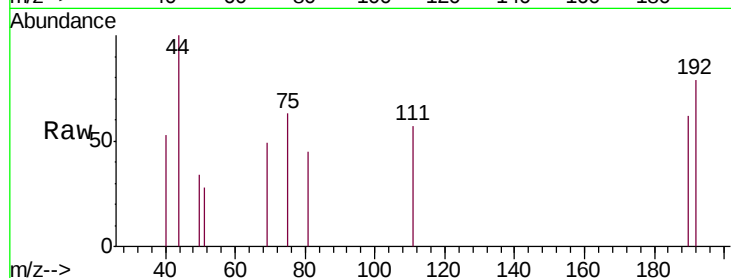
Acq: 23 Jul 2019 15:18

Instrument :

MSVOA_V

ClientSampleId :

A52S1DL



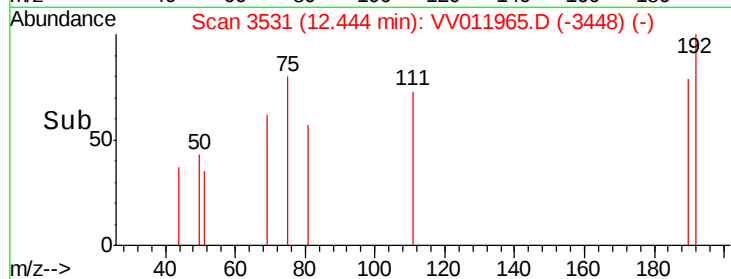
Tgt Ion: 75 Resp: 295

Ion Ratio Lower Upper

75 100

155 0.0 69.5 104.3#

157 0.0 96.2 144.2#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

300

200

100

0

12.42 12.44 12.46

Time-->