

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011519\
 Data File : VX007055.D
 Acq On : 15 Jan 2019 13:47
 Operator : JC/SP
 Sample : K1149-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SW003-190114-01

Quant Time: Jan 16 00:03:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	547593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	852266	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	797914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	401091	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	295123	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
35) Dibromofluoromethane	5.50	113	258327	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	8.71	98	1021323	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.13	95	370524	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	

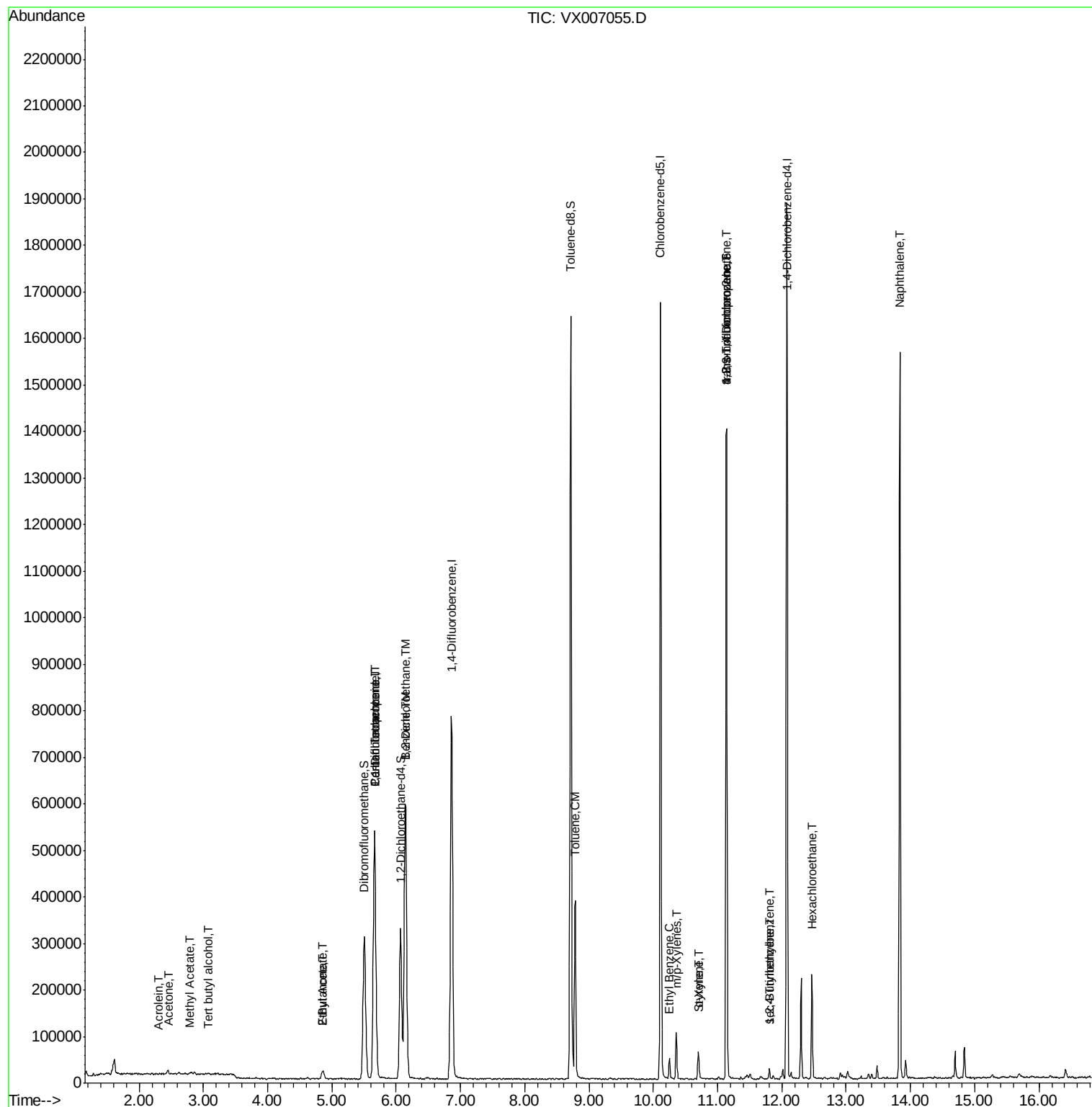
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	2667	1.976	ug/l	99
13) Acrolein	2.31	56	128	3.301	ug/l #	1
16) Acetone	2.45	43	10137	3.583	ug/l	94
18) Methyl Acetate	2.78	43	2755	0.336	ug/l #	66
20) Methylene Chloride	2.86	84	2465	Below Cal		88
25) 2-Butanone	4.85	43	31774	7.849	ug/l #	47
36) 1,1-Dichloropropene	5.67	75	35960	4.853	ug/l #	48
37) Ethyl Acetate	4.85	43	31774	4.000	ug/l	97
38) Carbon Tetrachloride	5.66	117	47943	6.431	ug/l #	14
40) Benzene	6.14	78	731565	32.357	ug/l	99
42) 1,2-Dichloroethane	6.14	62	6363	0.814	ug/l	78
49) 1,4-Dioxane	7.77	88	87	Below Cal	#	1
52) Toluene	8.79	92	146959	10.113	ug/l	98
67) Ethyl Benzene	10.25	91	25345	0.882	ug/l	95
68) m/p-Xylenes	10.36	106	25007	2.209	ug/l	96
69) o-Xylene	10.70	106	11209	1.015	ug/l	91
70) Styrene	10.71	104	11277	0.645	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	175571	21.601	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	175571	64.039	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	10088	0.425	ug/l	95
85) sec-Butylbenzene	11.80	105	10088	0.358	ug/l #	55
90) Hexachloroethane	12.47	117	8456	4.889	ug/l #	6
95) Naphthalene	13.83	128	982932	34.014	ug/l	99

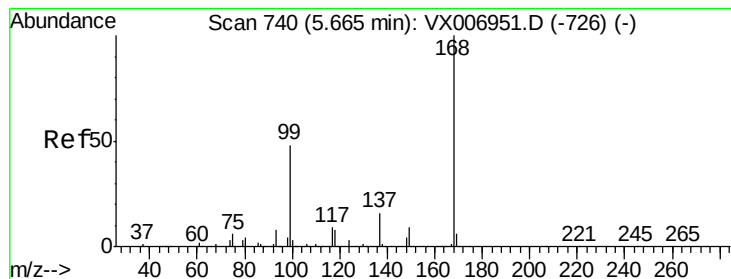
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 16 00:03:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

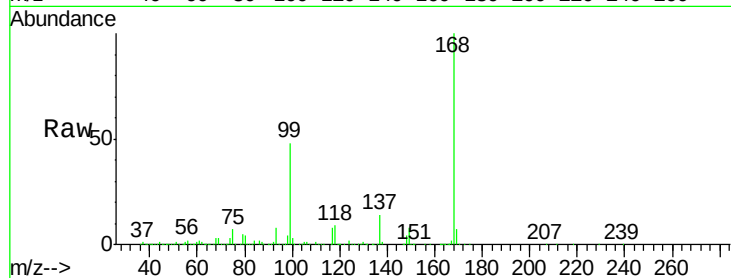
SW003-190114-01

Tot Ion:168 Resp: 547593

Ion Ratio Lower Upper

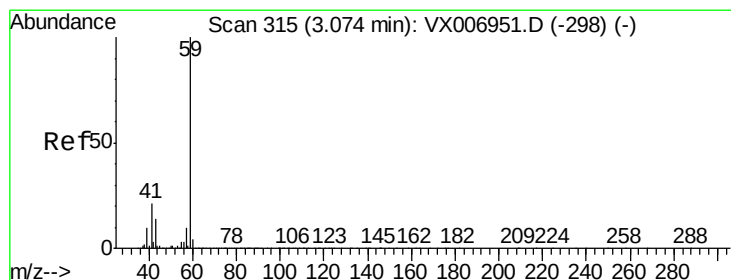
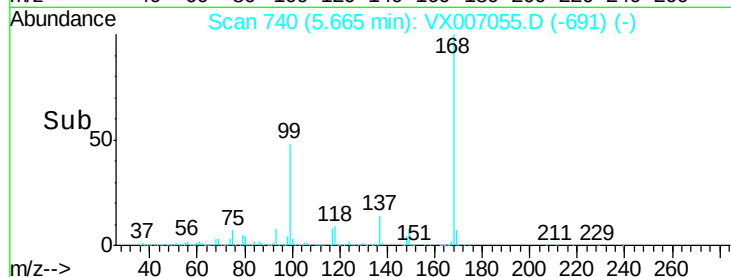
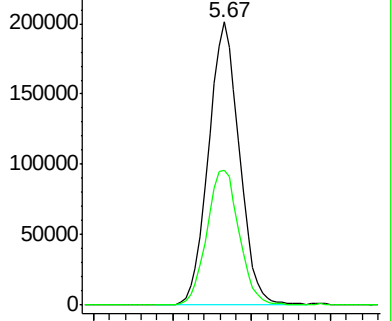
168 100

99 47.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 1.976 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX007055.D

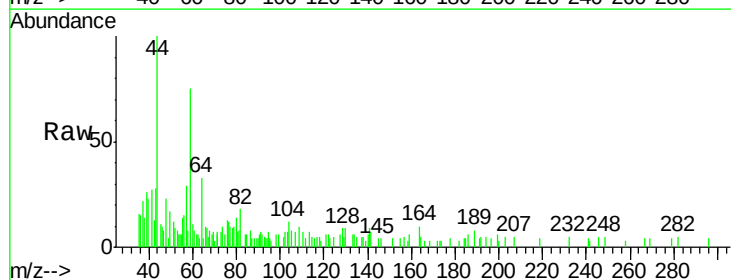
Acq: 15 Jan 2019 13:47

Tgt Ion: 59 Resp: 2667

Ion Ratio Lower Upper

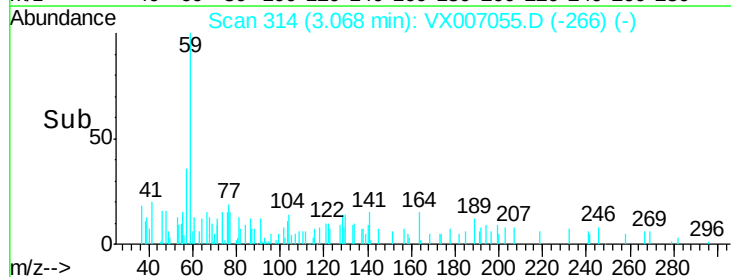
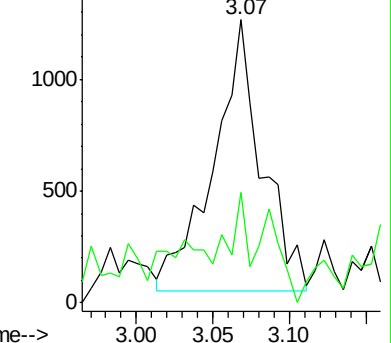
59 100

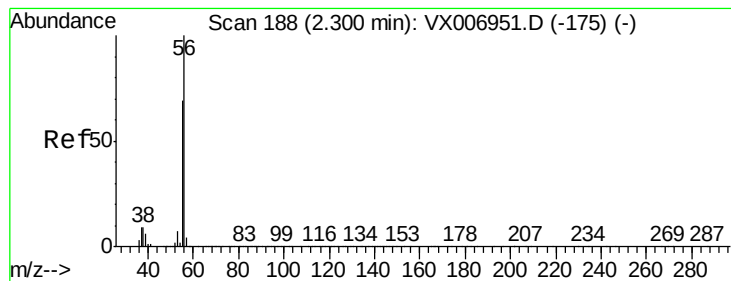
57 10.3 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.301 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

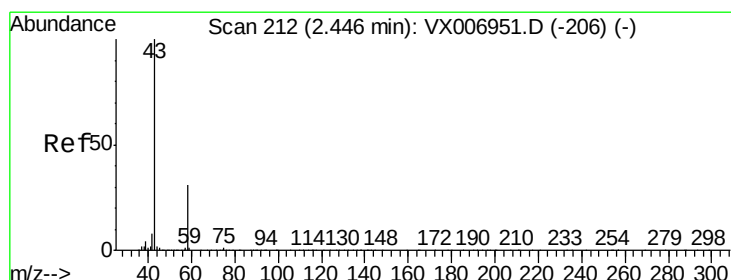
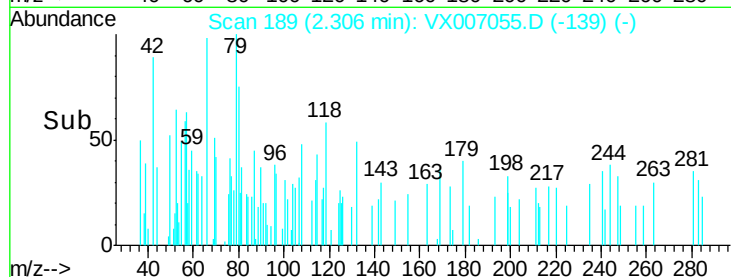
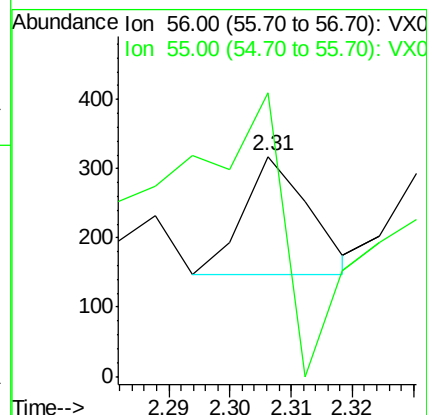
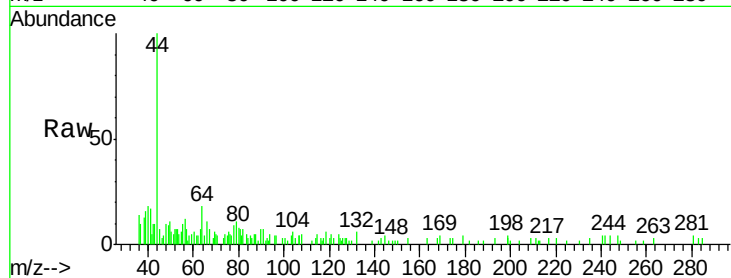
SW003-190114-01

Tot Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 444.5 58.2 87.4#



#16

Acetone

Concen: 3.583 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007055.D

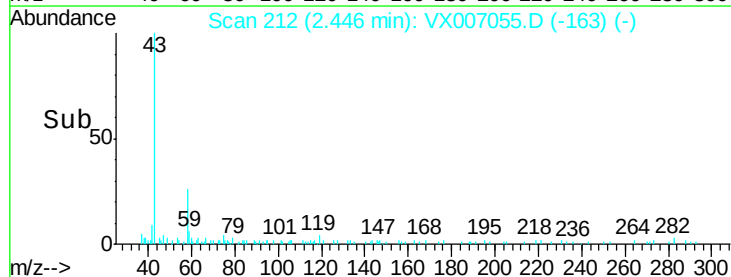
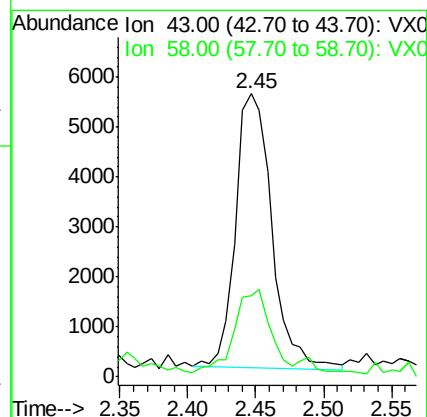
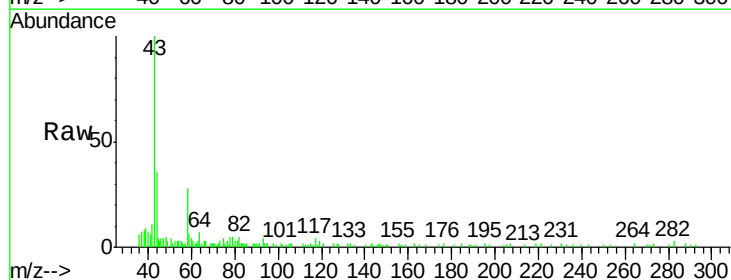
Acq: 15 Jan 2019 13:47

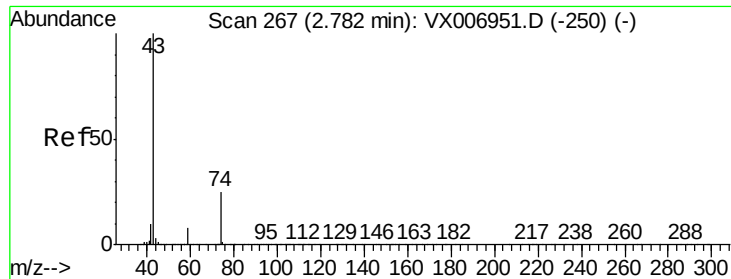
Tgt Ion: 43 Resp: 10137

Ion Ratio Lower Upper

43 100

58 27.9 25.0 37.6

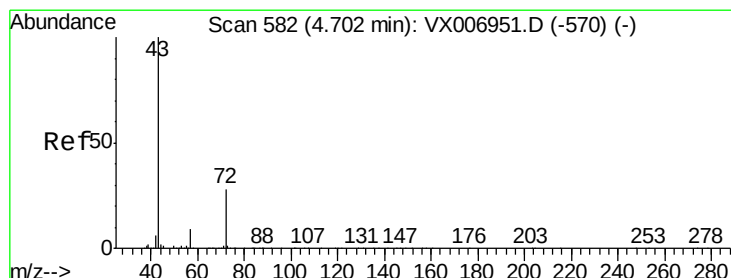
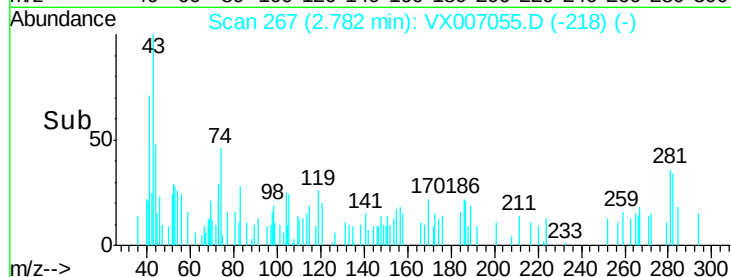
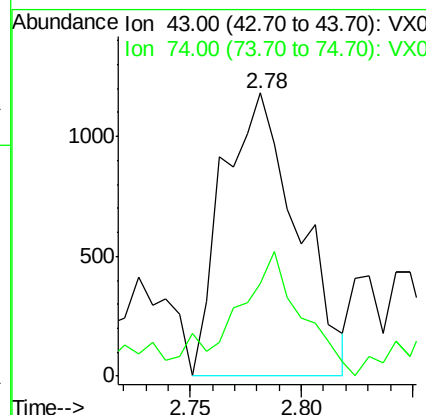
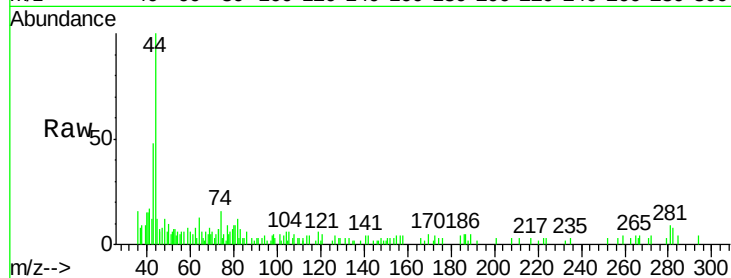




#18
Methyl Acetate
Concen: 0.336 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007055.D
Acq: 15 Jan 2019 13:47

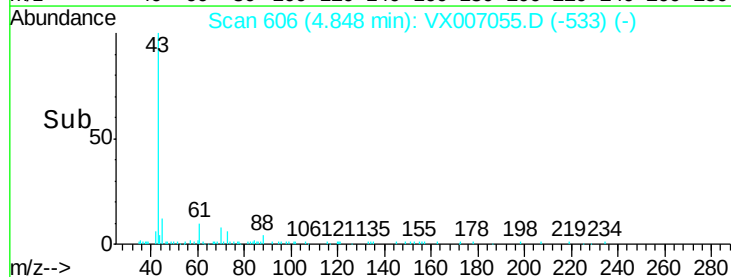
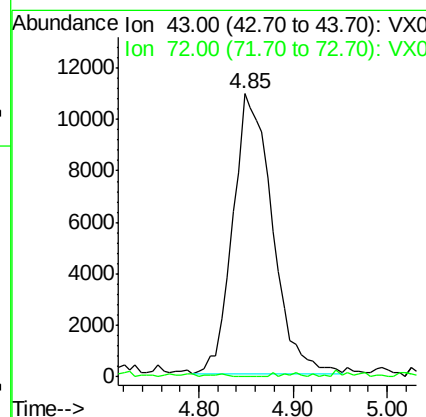
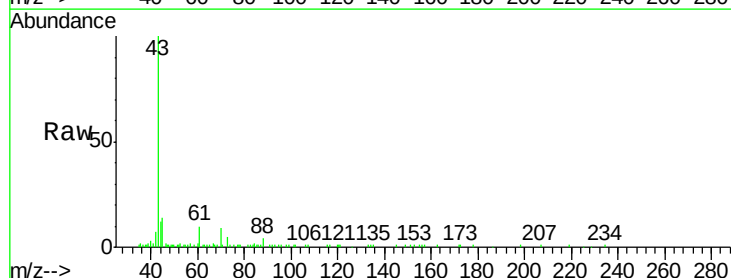
Instrument :
MSVOA_X
ClientSampleId :
SW003-190114-01

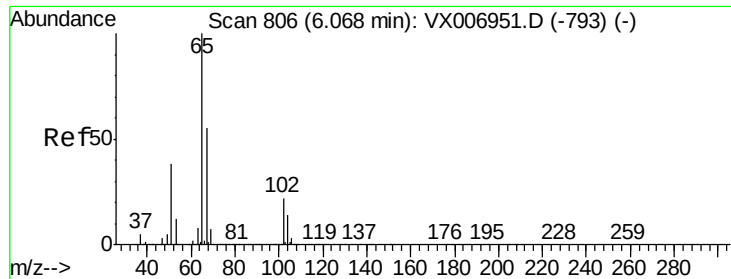
Tot Ion: 43 Resp: 2755
Ion Ratio Lower Upper
43 100
74 40.0 18.6 28.0#



#25
2-Butanone
Concen: 7.849 ug/l
RT: 4.85 min Scan# 606
Delta R.T. 0.15 min
Lab File: VX007055.D
Acq: 15 Jan 2019 13:47

Tgt Ion: 43 Resp: 31774
Ion Ratio Lower Upper
43 100
72 0.0 22.4 33.6#





#33

1,2-Dichloroethane-d4

Concen: 51.570 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

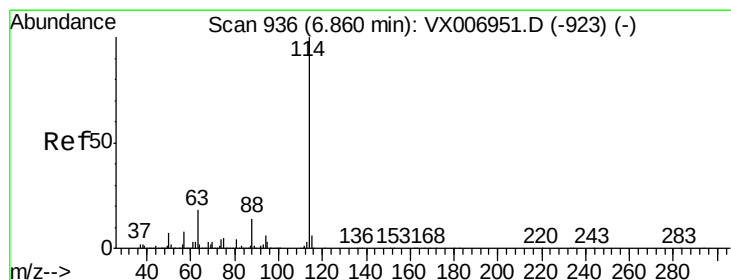
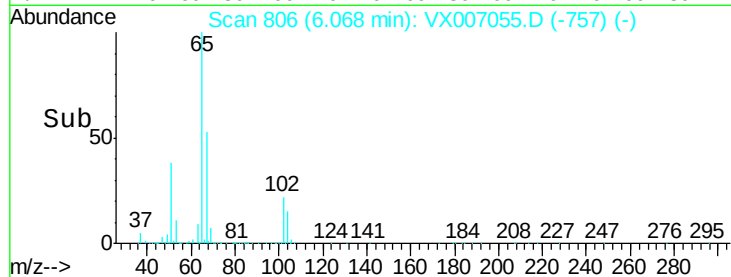
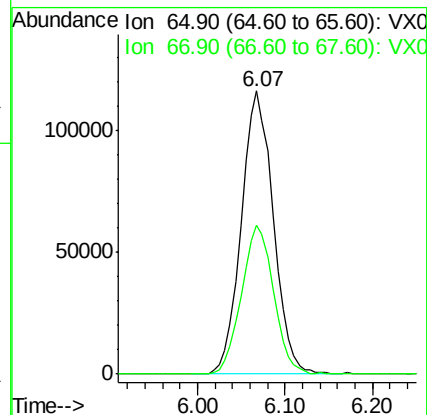
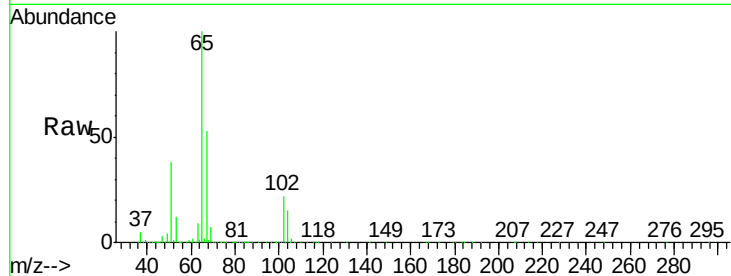
SW003-190114-01

Tot Ion: 65 Resp: 295123

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

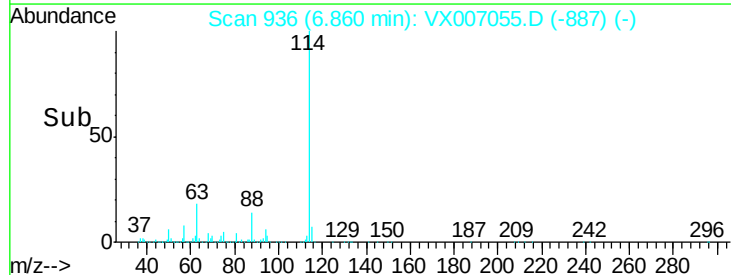
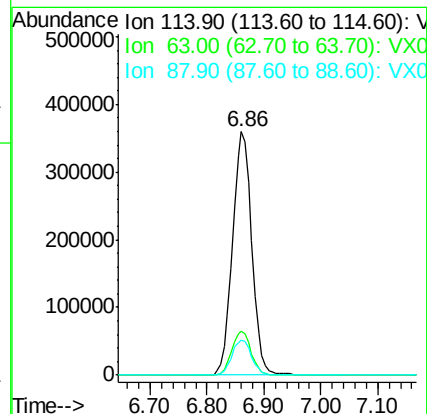
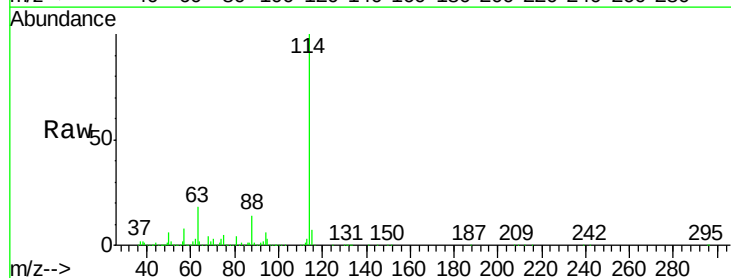
Tgt Ion: 114 Resp: 852266

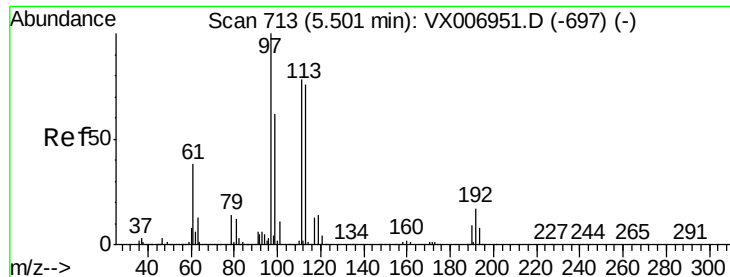
Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.331 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

SW003-190114-01

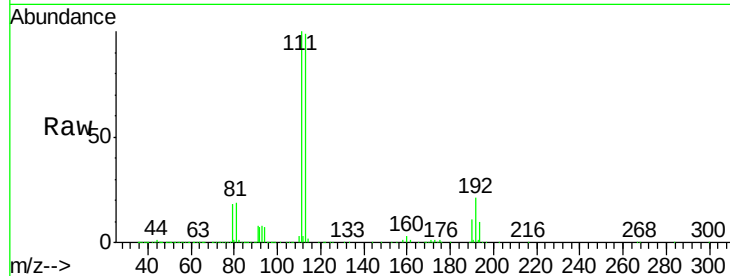
Tot Ion:113 Resp: 258327

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

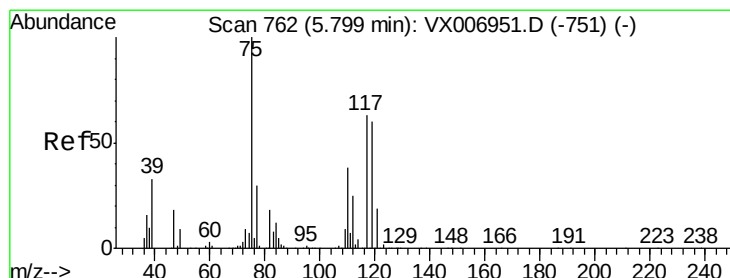
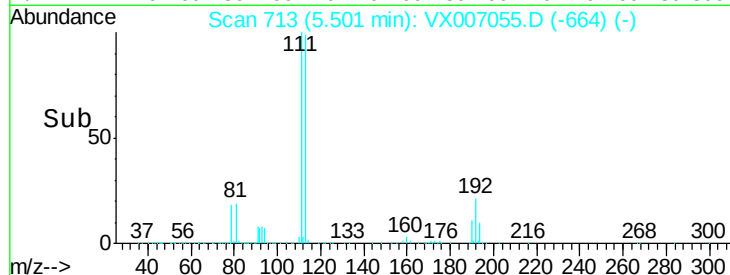
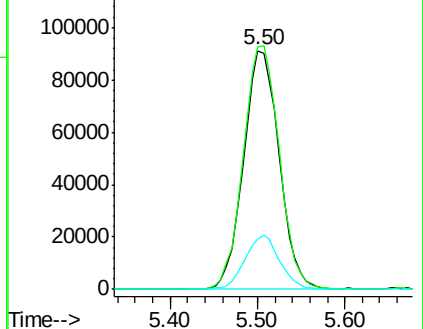
192 22.2 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.853 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

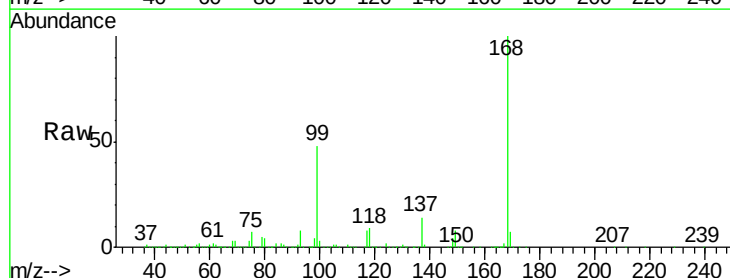
Tgt Ion: 75 Resp: 35960

Ion Ratio Lower Upper

75 100

110 9.8 20.2 60.5#

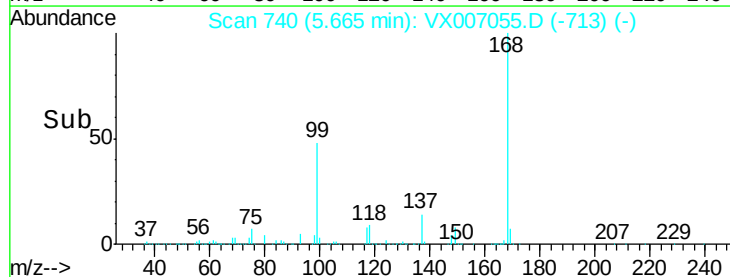
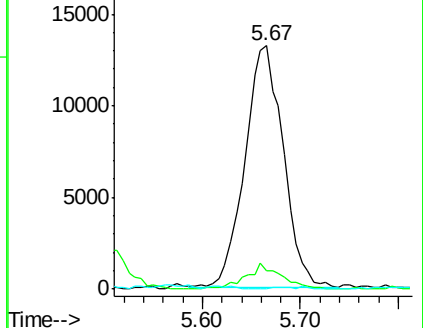
77 0.0 24.8 37.2#

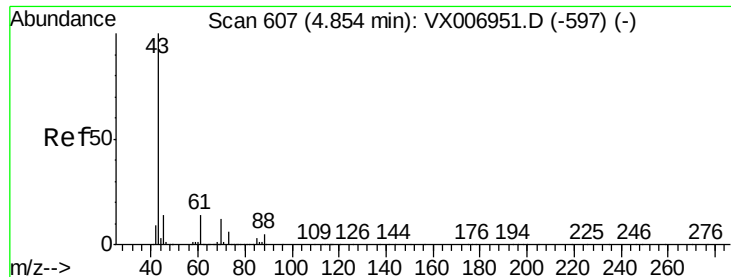


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 4.000 ug/l

RT: 4.85 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

SW003-190114-01

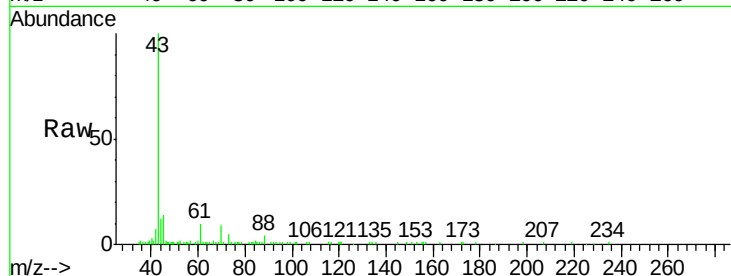
Tot Ion: 43 Resp: 31774

Ion Ratio Lower Upper

43 100

61 14.6 11.9 17.9

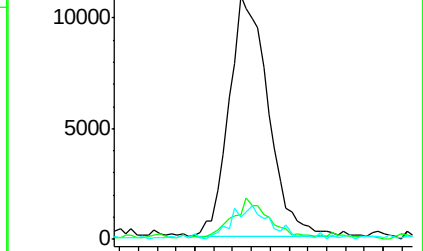
70 14.1 9.7 14.5



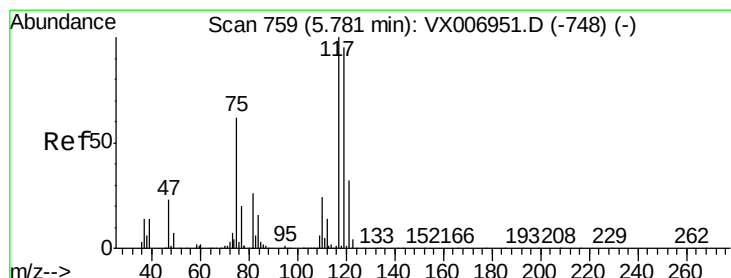
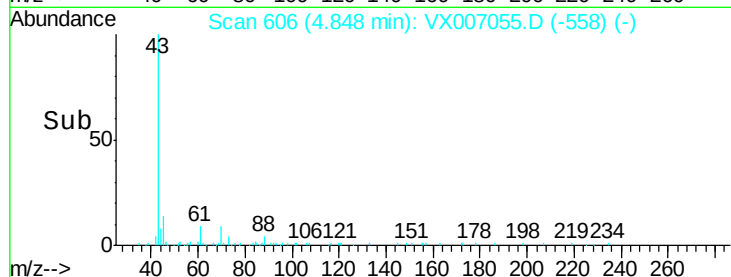
Abundance Ion 43.00 (42.70 to 43.70): VX006951.D (-597) (-)

Ion 60.90 (60.60 to 61.60): VX006951.D (-597) (-)

Ion 70.00 (69.70 to 70.70): VX006951.D (-597) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 6.431 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

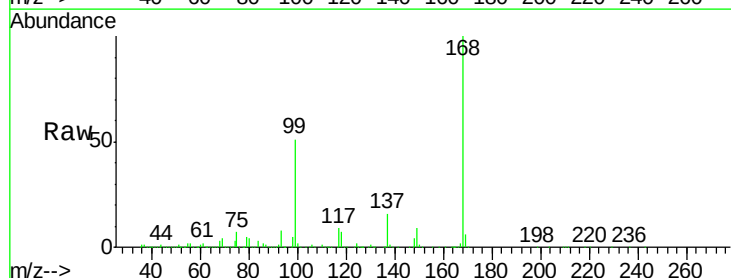
Tgt Ion: 117 Resp: 47943

Ion Ratio Lower Upper

117 100

119 4.3 79.4 119.2#

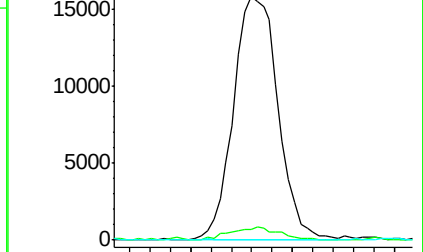
121 0.0 24.0 36.0#



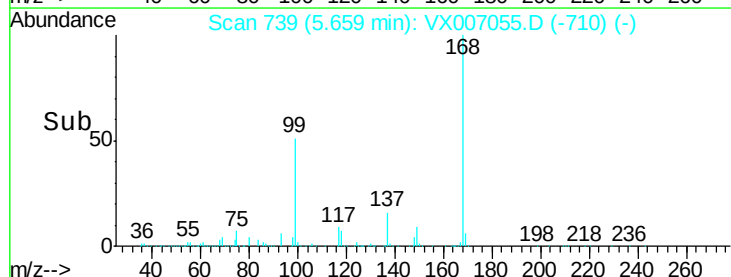
Abundance Ion 116.80 (116.50 to 117.50): VX006951.D (-748) (-)

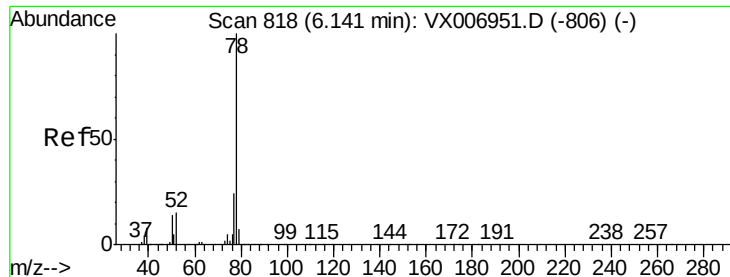
Ion 118.80 (118.50 to 119.50): VX006951.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX006951.D (-748) (-)



Time-->





#40

Benzene

Concen: 32.357 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

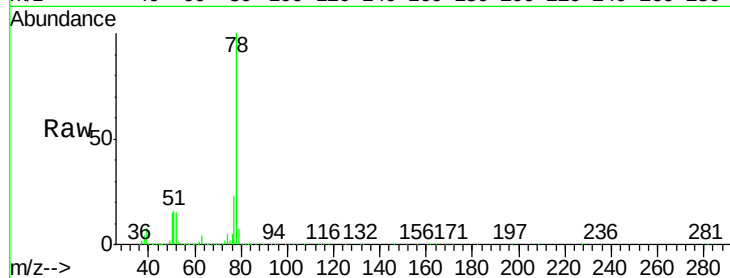
SW003-190114-01

Tot Ion: 78 Resp: 731565

Ion Ratio Lower Upper

78 100

77 23.3 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

300000

250000

200000

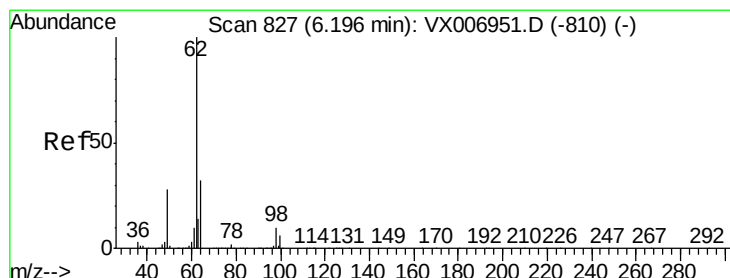
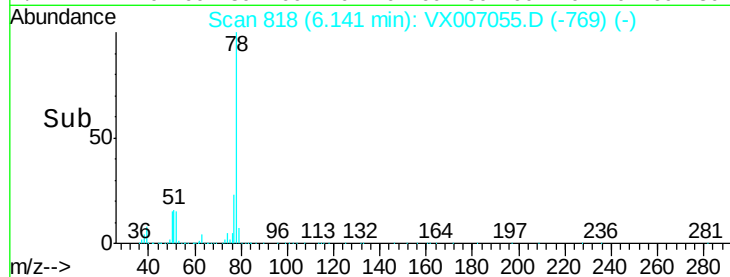
150000

100000

50000

0

Time--> 6.00 6.10 6.20 6.30



#42

1,2-Dichloroethane

Concen: 0.814 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.05 min

Lab File: VX007055.D

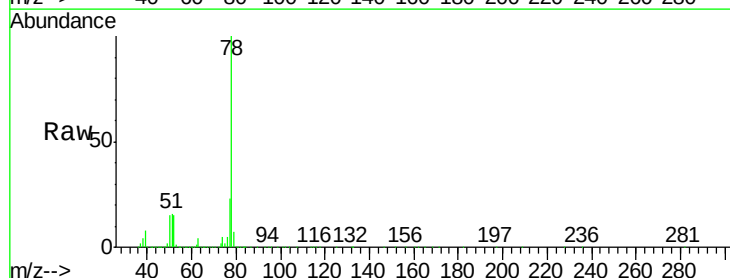
Acq: 15 Jan 2019 13:47

Tgt Ion: 62 Resp: 6363

Ion Ratio Lower Upper

62 100

98 1.8 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.14

2500

2000

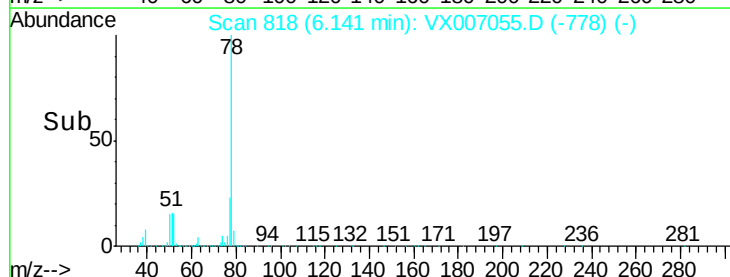
1500

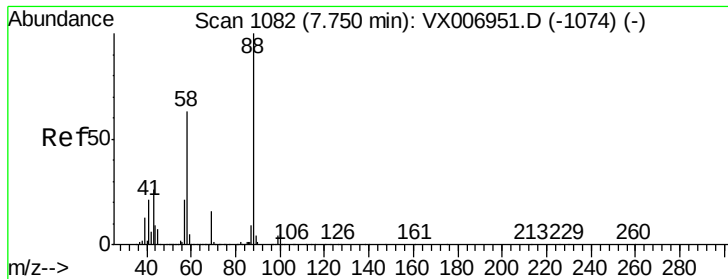
1000

500

0

Time--> 6.05 6.10 6.15 6.20

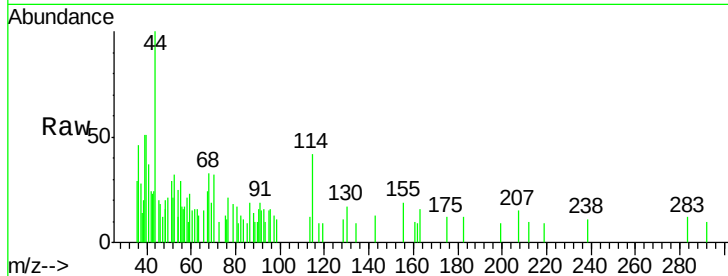




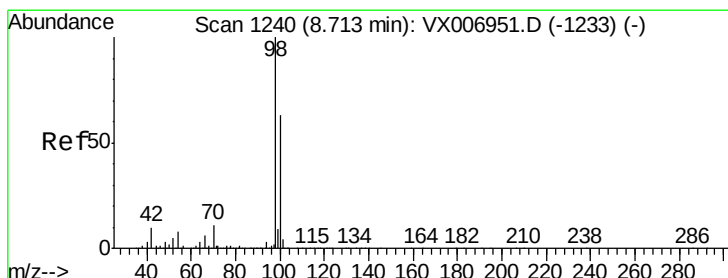
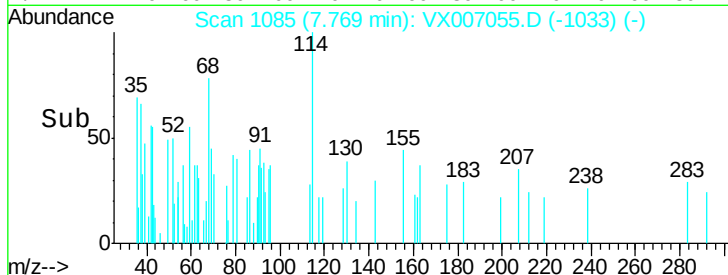
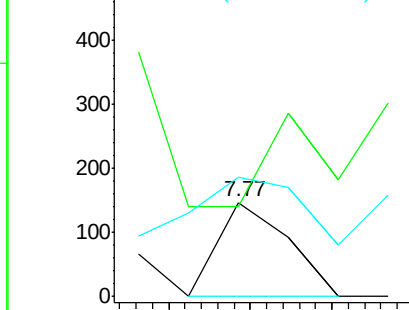
#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 7.77 min Scan# 1085
 Delta R.T. 0.02 min
 Lab File: VX007055.D
 Acq: 15 Jan 2019 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SW003-190114-01

Tot Ion: 88 Resp: 87
 Ion Ratio Lower Upper
 88 100
 43 260.9 22.2 33.4#
 58 240.2 51.0 76.4#

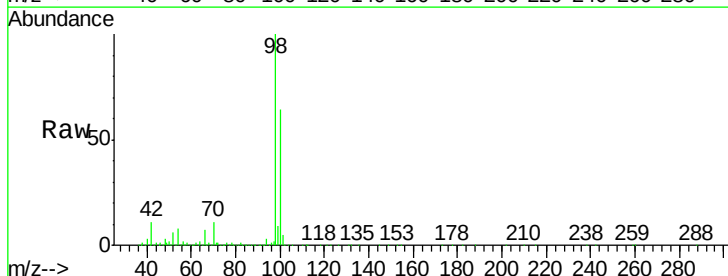


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

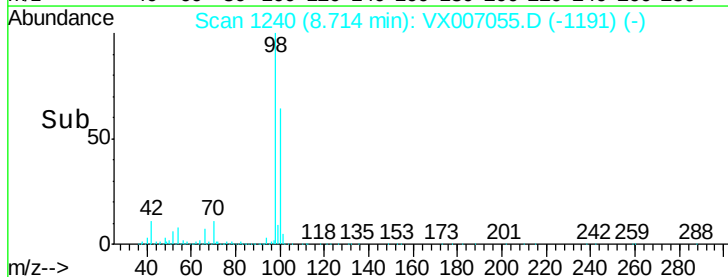
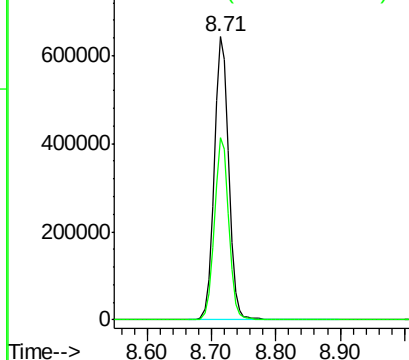


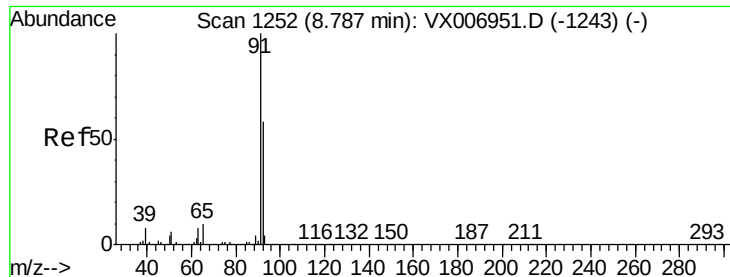
#50
 Toluene-d8
 Concen: 51.124 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX007055.D
 Acq: 15 Jan 2019 13:47

Tgt Ion: 98 Resp: 1021323
 Ion Ratio Lower Upper
 98 100
 100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 10.113 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

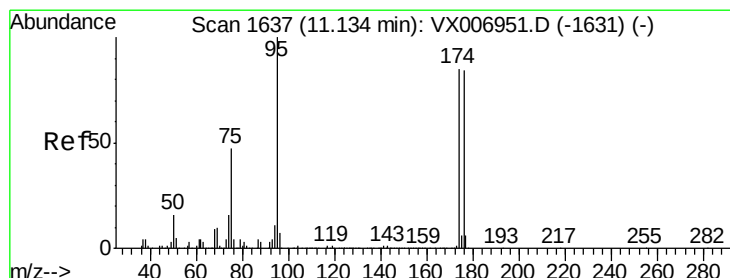
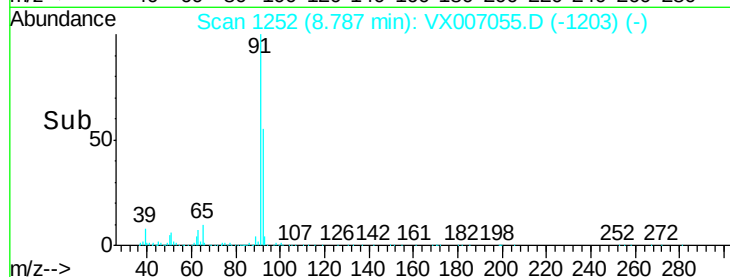
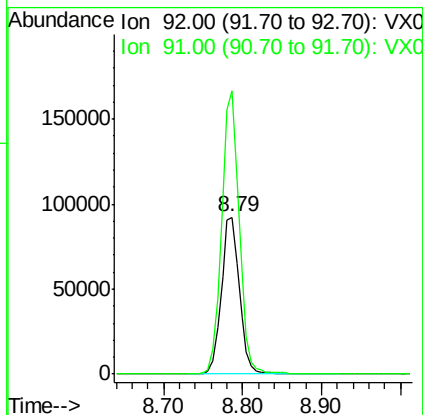
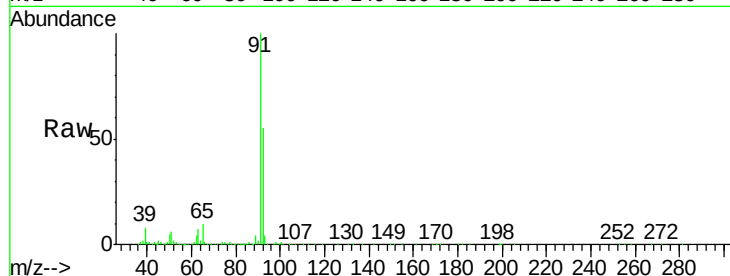
SW003-190114-01

Tot Ion: 92 Resp: 146959

Ion Ratio Lower Upper

92 100

91 175.2 137.6 206.4



#62

4-Bromofluorobenzene

Concen: 53.201 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

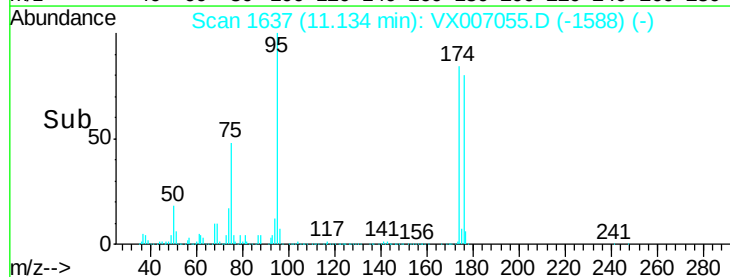
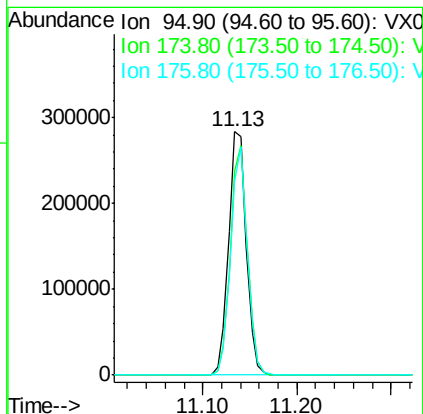
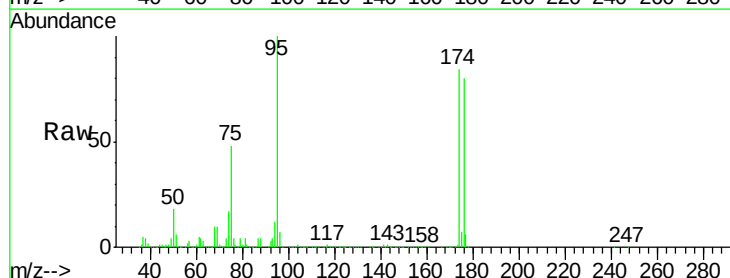
Tgt Ion: 95 Resp: 370524

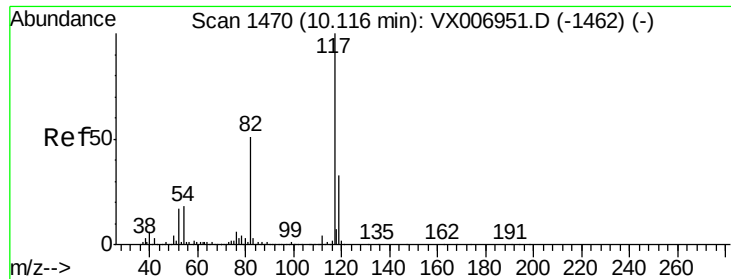
Ion Ratio Lower Upper

95 100

174 90.9 0.0 182.2

176 88.5 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

SW003-190114-01

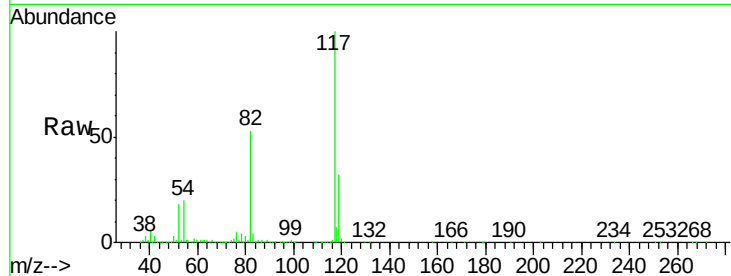
Tot Ion:117 Resp: 797914

Ion Ratio Lower Upper

117 100

82 52.5 41.0 61.6

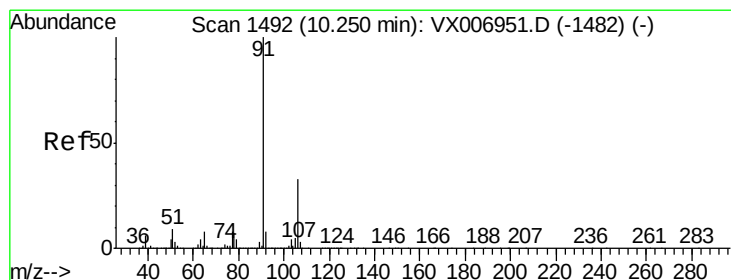
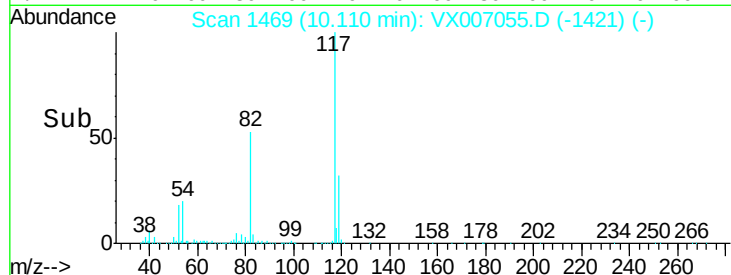
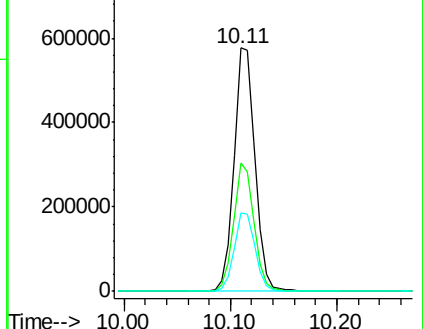
119 32.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 0.882 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX007055.D

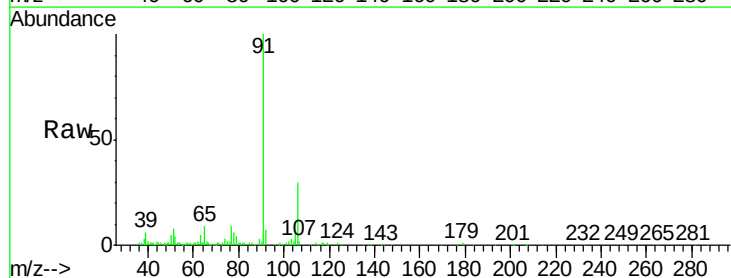
Acq: 15 Jan 2019 13:47

Tgt Ion: 91 Resp: 25345

Ion Ratio Lower Upper

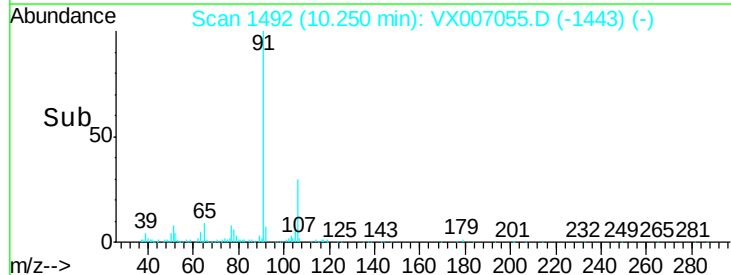
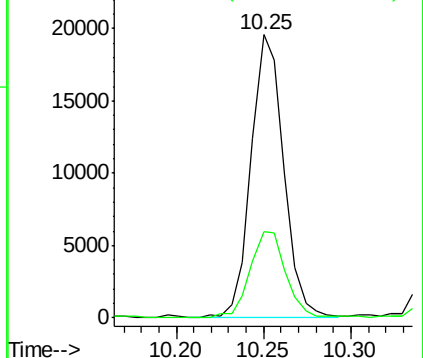
91 100

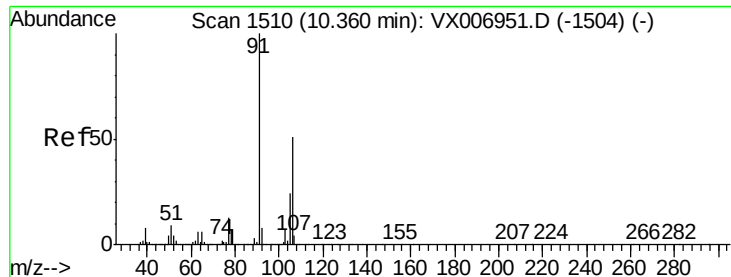
106 30.4 26.4 39.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 2.209 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

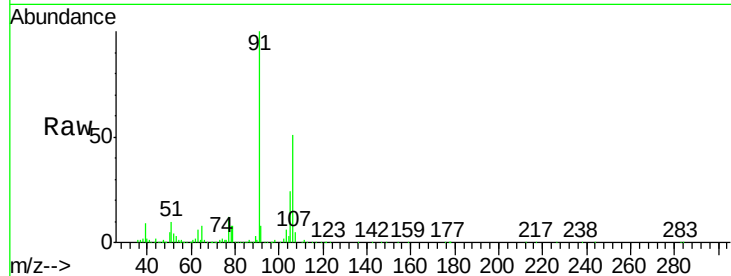
SW003-190114-01

Tot Ion:106 Resp: 25007

Ion Ratio Lower Upper

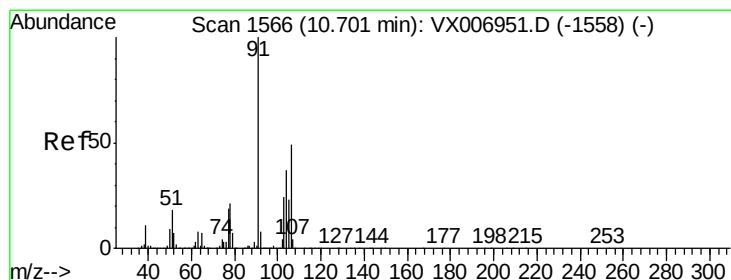
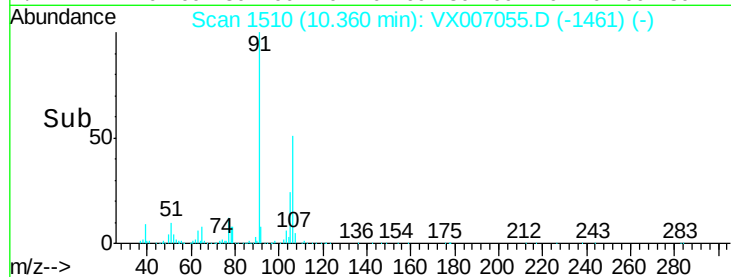
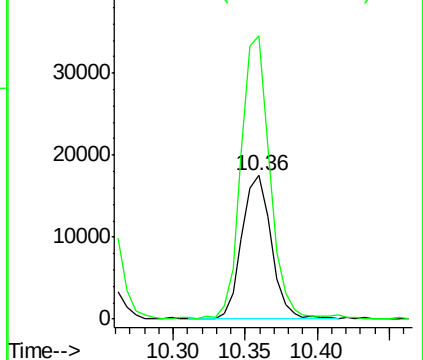
106 100

91 189.4 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 1.015 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VX007055.D

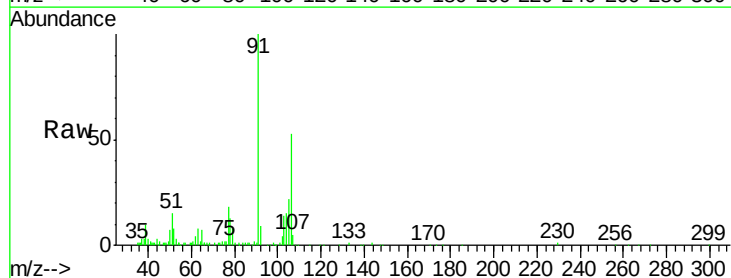
Acq: 15 Jan 2019 13:47

Tgt Ion:106 Resp: 11209

Ion Ratio Lower Upper

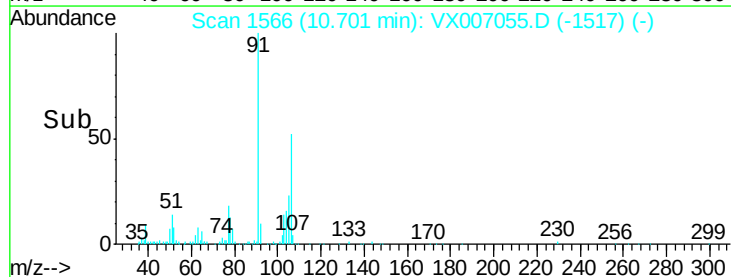
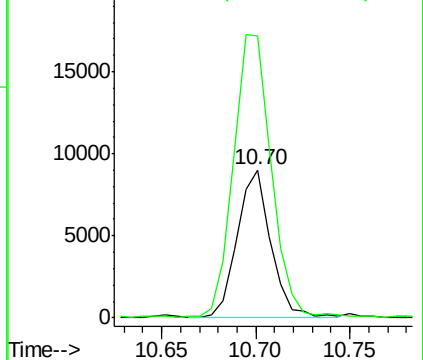
106 100

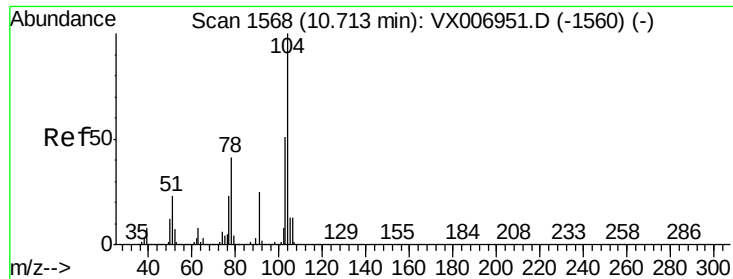
91 216.2 101.3 303.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

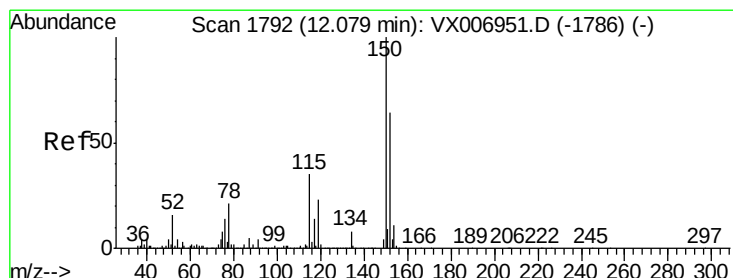
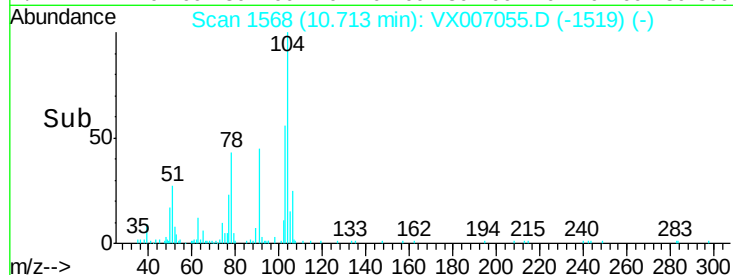
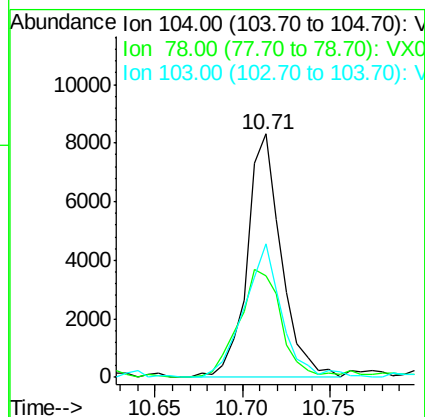
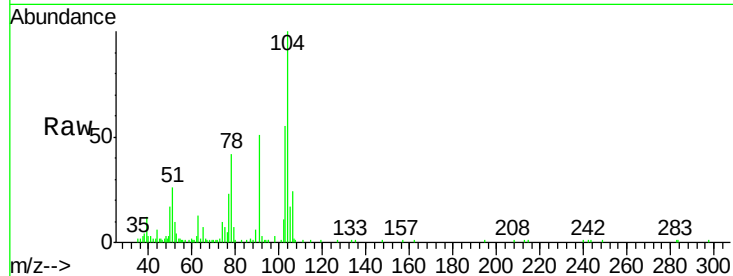




#70
Stvrene
Concen: 0.645 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX007055.D
Acq: 15 Jan 2019 13:47

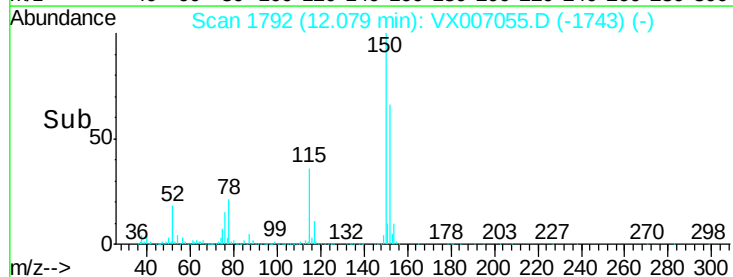
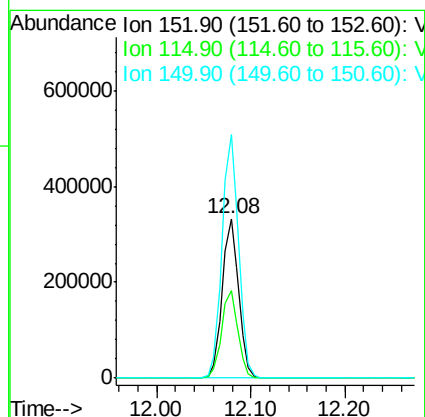
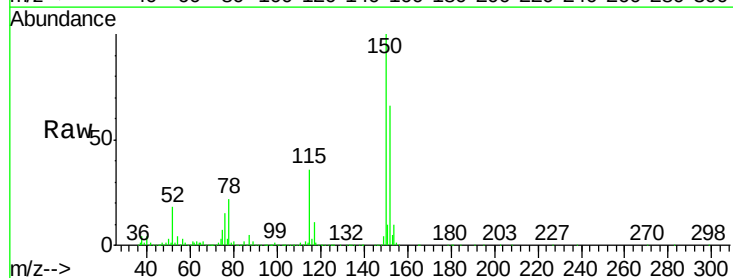
Instrument :
MSVOA_X
ClientSampleId :
SW003-190114-01

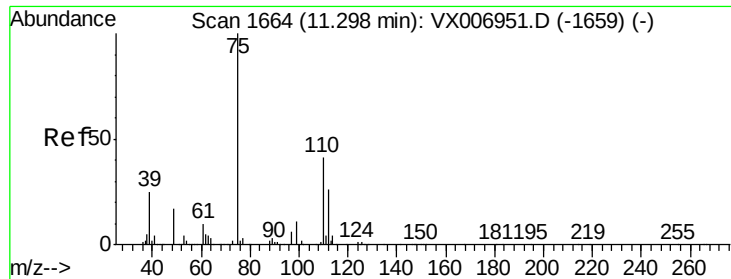
Tot Ion:104 Resp: 11277
Ion Ratio Lower Upper
104 100
78 55.3 37.7 56.5
103 60.9 43.8 65.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007055.D
Acq: 15 Jan 2019 13:47

Tgt Ion:152 Resp: 401091
Ion Ratio Lower Upper
152 100
115 54.7 39.1 117.2
150 154.3 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 21.601 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

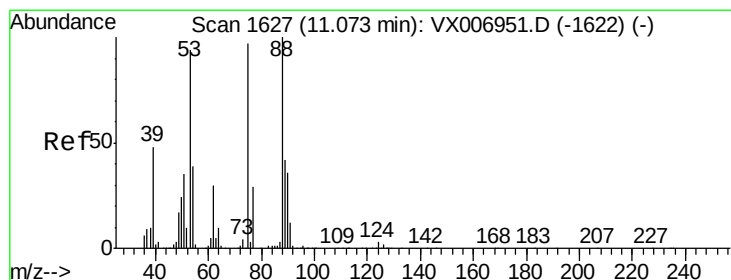
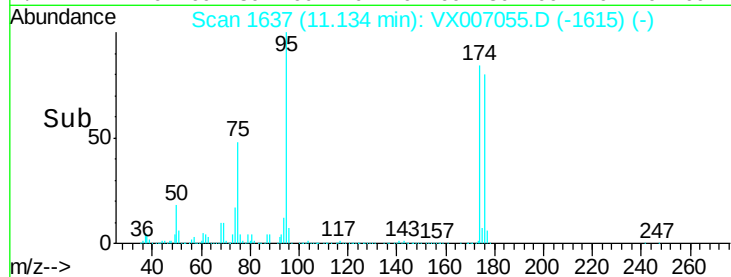
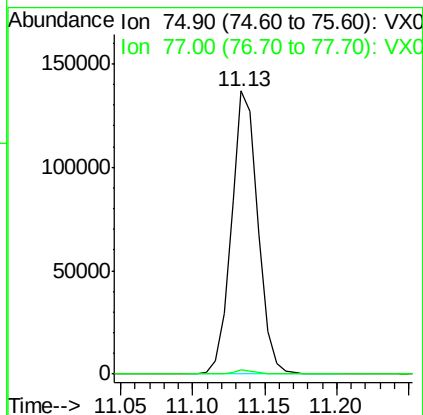
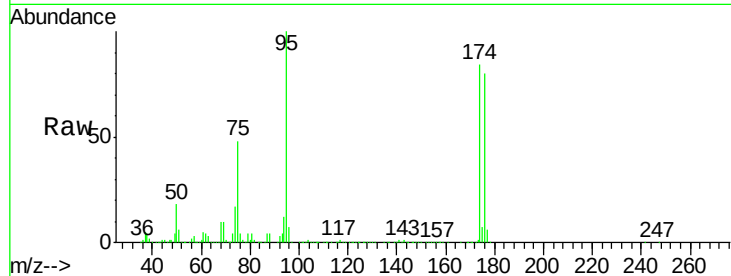
SW003-190114-01

Tot Ion: 75 Resp: 175571

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.039 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

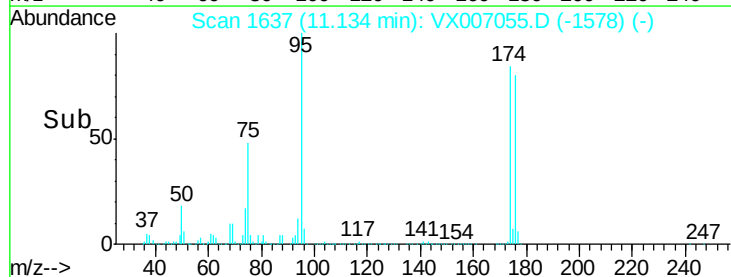
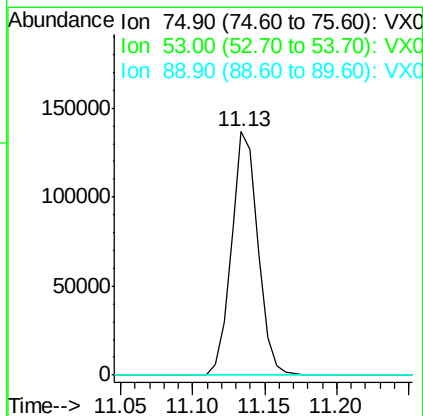
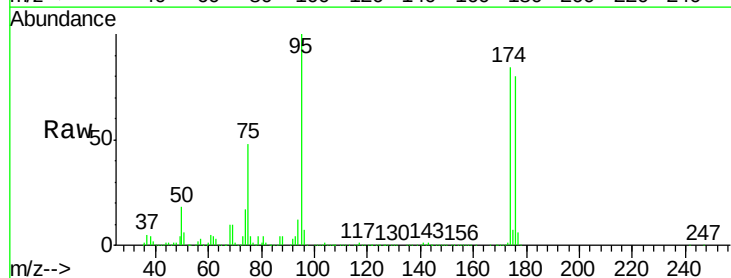
Tgt Ion: 75 Resp: 175571

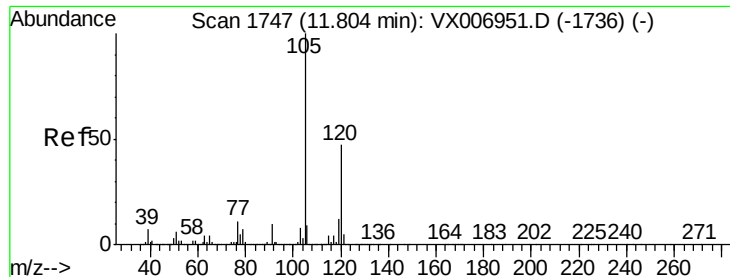
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.425 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

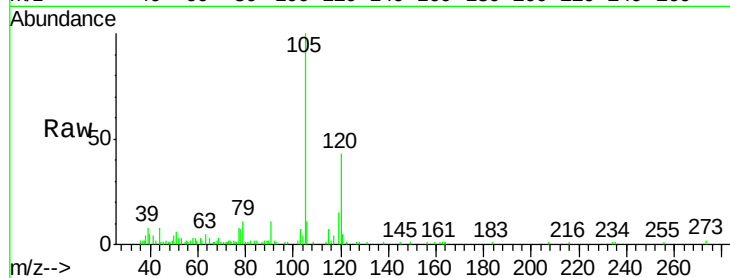
SW003-190114-01

Tot Ion:105 Resp: 10088

Ion Ratio Lower Upper

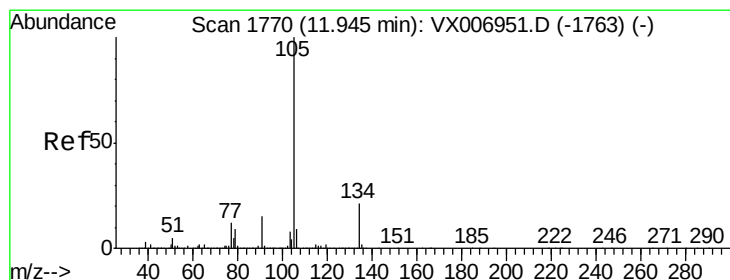
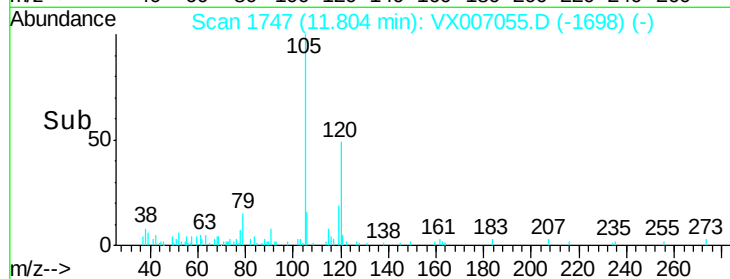
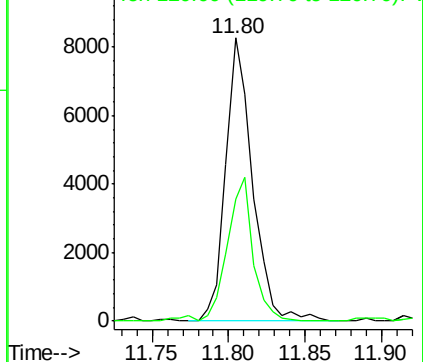
105 100

120 49.4 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.358 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.14 min

Lab File: VX007055.D

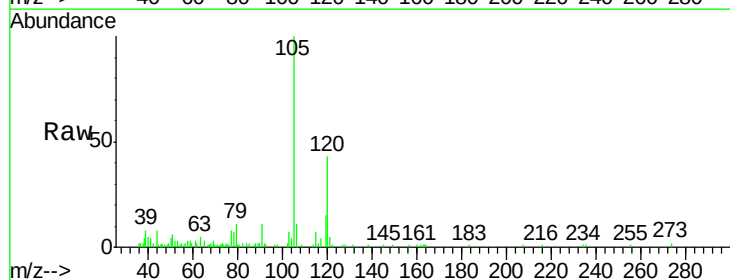
Acq: 15 Jan 2019 13:47

Tgt Ion:105 Resp: 10088

Ion Ratio Lower Upper

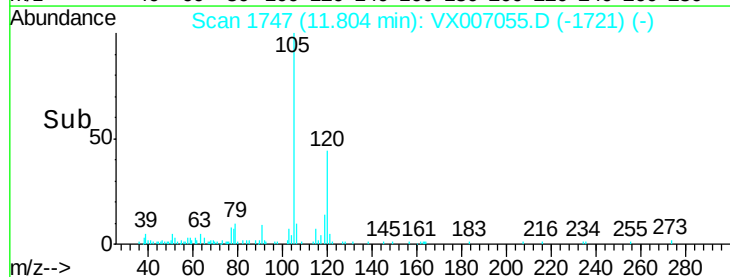
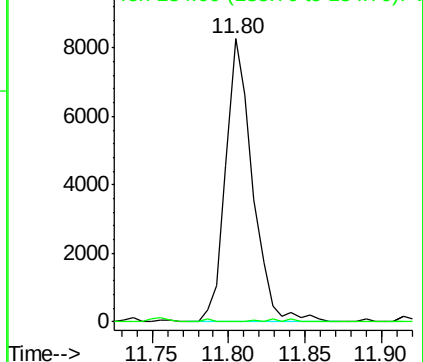
105 100

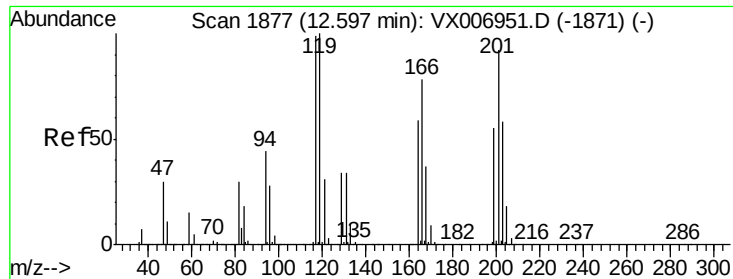
134 0.2 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 4.889 ug/l

RT: 12.47 min Scan# 1856

Delta R.T. -0.13 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

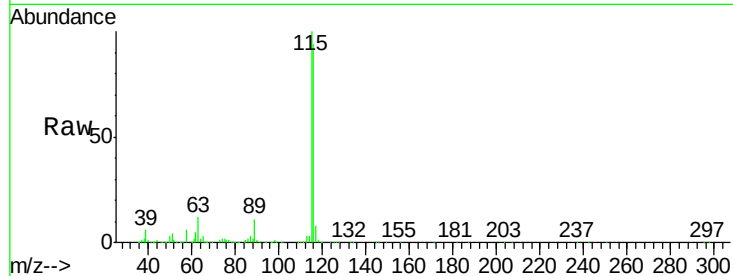
SW003-190114-01

Tot Ion:117 Resp: 8456

Ion Ratio Lower Upper

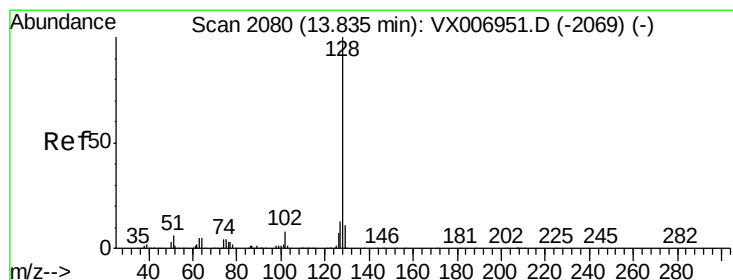
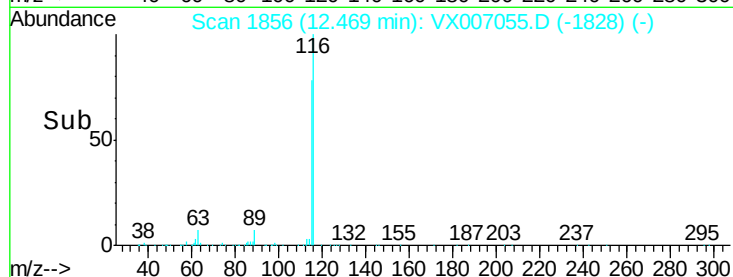
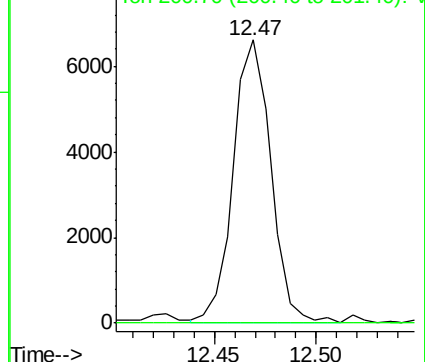
117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 34.014 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007055.D

Acq: 15 Jan 2019 13:47

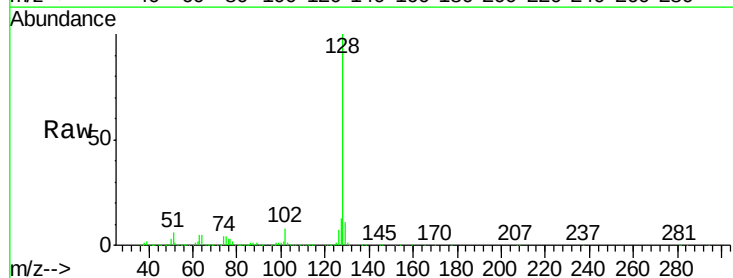
Tgt Ion:128 Resp: 982932

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

