

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100318\
 Data File : VX004936.D
 Acq On : 02 Oct 2018 23:02
 Operator : JC/MD
 Sample : PB113401ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113401ZHE#04

Quant Time: Oct 03 04:45:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	340418	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183730	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	161195	57.53	ug/l	0.00
Spiked Amount			Recovery	=	115.06%	
35) Dibromofluoromethane	5.51	113	136686	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	8.72	98	492510	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	11.14	95	175702	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	

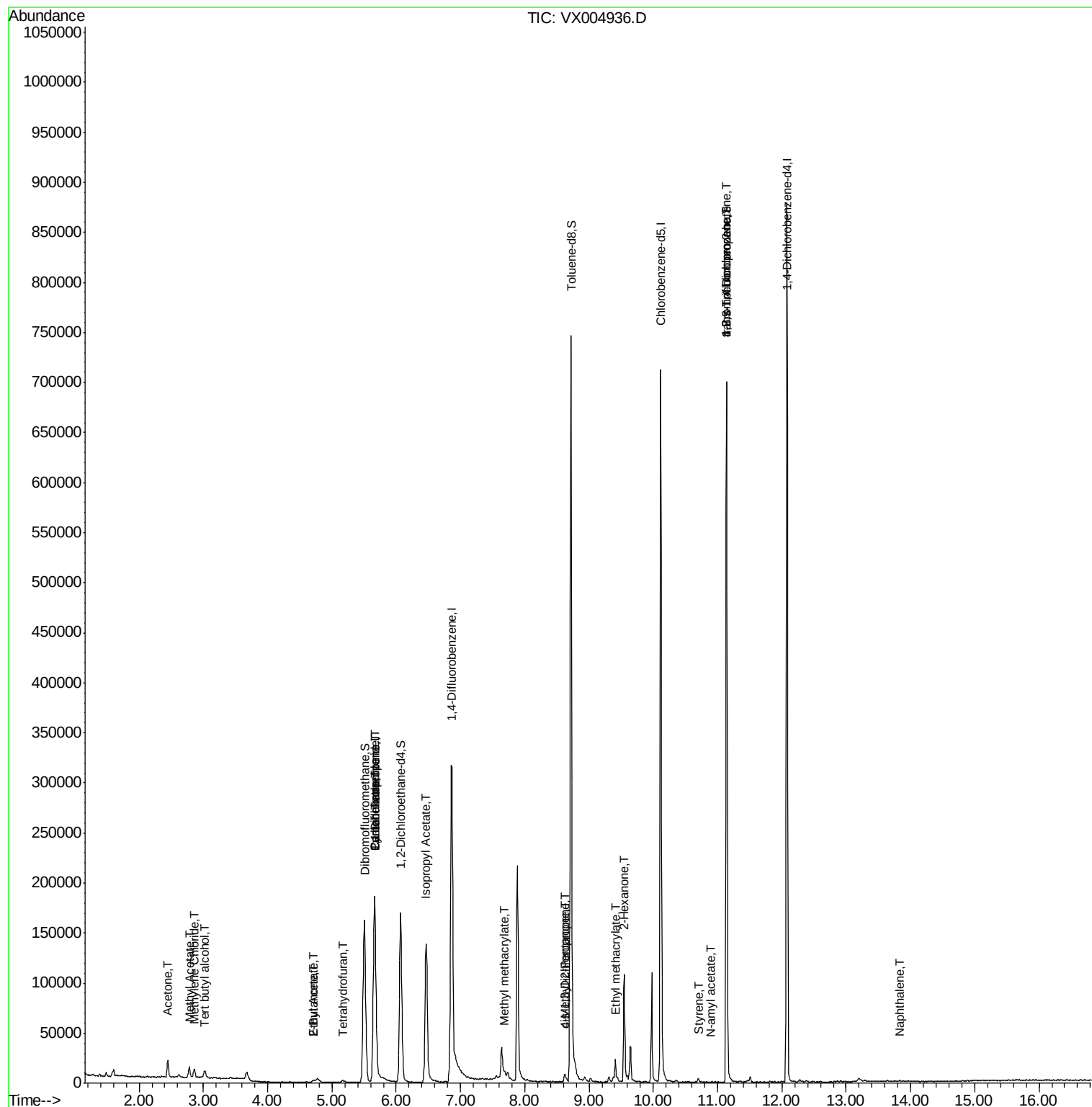
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	550	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	4678	5.971	ug/l #	76
16) Acetone	2.45	43	18733	11.452	ug/l	95
18) Methyl Acetate	2.78	43	12341	2.978	ug/l	98
20) Methylene Chloride	2.86	84	3830	0.784	ug/l	94
25) 2-Butanone	4.71	43	3849	1.596	ug/l #	84
29) Tetrahydrofuran	5.17	42	1736	1.158	ug/l #	80
31) Cyclohexane	5.67	56	3764	1.056	ug/l #	7
36) 1,1-Dichloropropene	5.66	75	13489	3.427	ug/l #	46
37) Ethyl Acetate	4.71	43	3849	0.737	ug/l #	69
38) Carbon Tetrachloride	5.67	117	17726	4.284	ug/l #	18
43) Isopropyl Acetate	6.46	43	194246	25.757	ug/l	98
48) Methyl methacrylate	7.69	41	7346	2.146	ug/l #	29
51) 4-Methyl-2-Pentanone	8.62	43	3002	0.632	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	1334	0.317	ug/l #	57
56) Ethyl methacrylate	9.41	69	666	2.993	ug/l #	1
59) 2-Hexanone	9.55	43	12504	3.160	ug/l #	54
70) Styrene	10.71	104	282	2.169	ug/l #	72
74) N-amyl acetate	10.90	43	102	1.763	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	87595	21.271	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	87595	57.695	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	380	Below Cal		68
95) Naphthalene	13.83	128	607	0.759	ug/l #	69

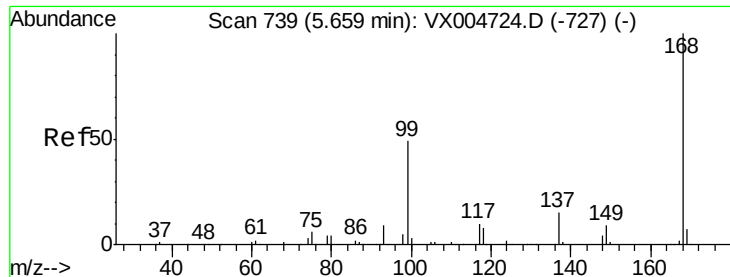
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100318\
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Instrument :
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Quant Time: Oct 03 04:45:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

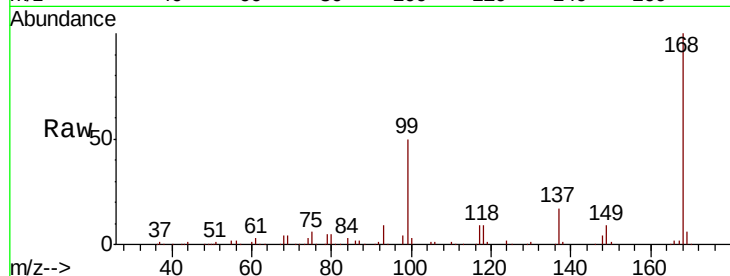
PB113401ZHE#04

Tot Ion:168 Resp: 196142

Ion Ratio Lower Upper

168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

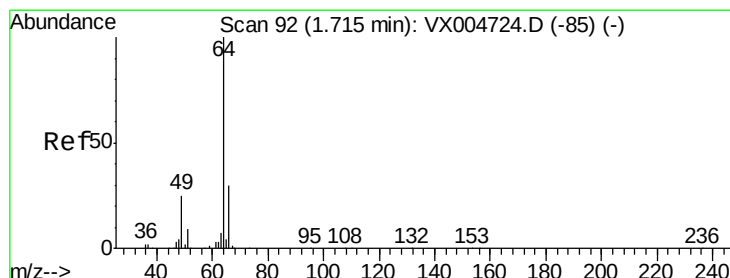
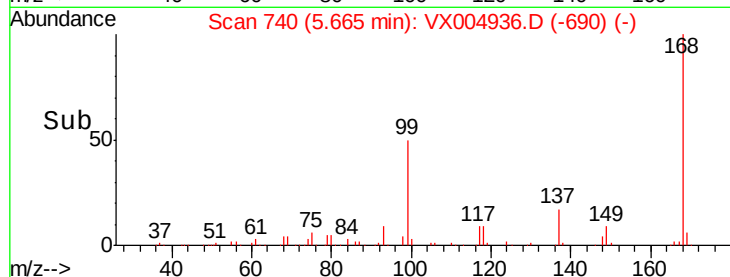
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004936.D

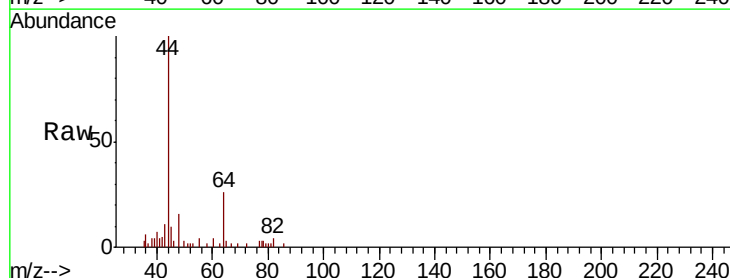
Acq: 02 Oct 2018 23:02

Tgt Ion: 64 Resp: 550

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

800

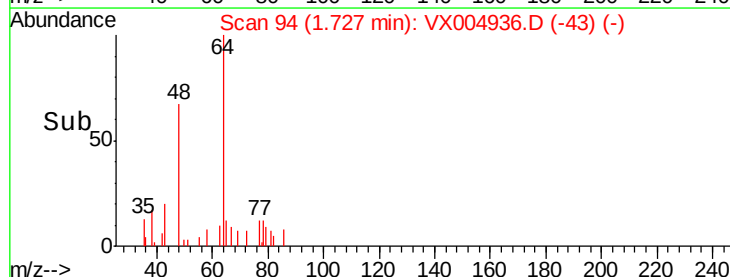
600

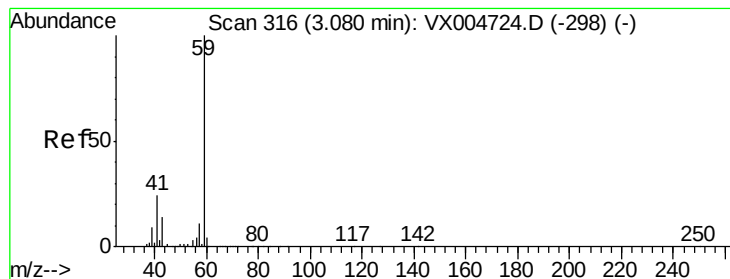
400

200

0

Time--> 1.66 1.68 1.70 1.72 1.74





#11

Tert butyl alcohol

Concen: 5.971 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

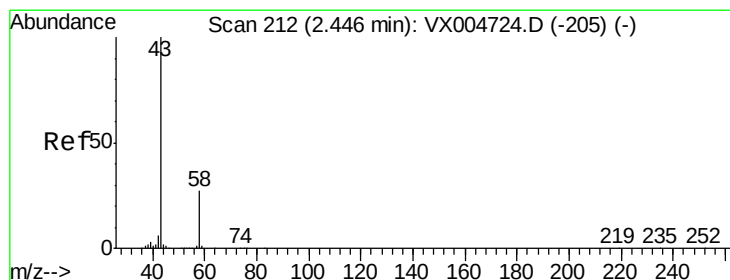
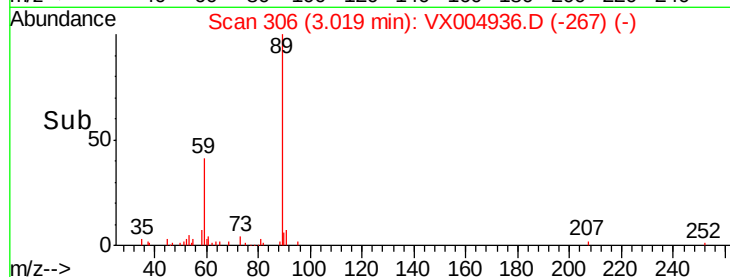
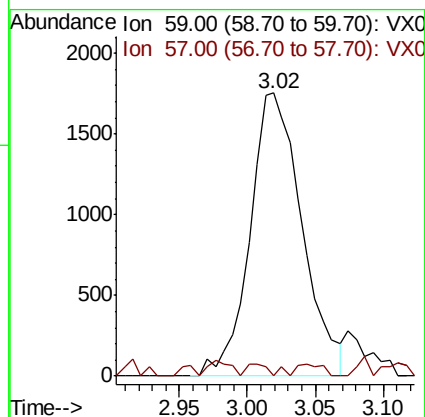
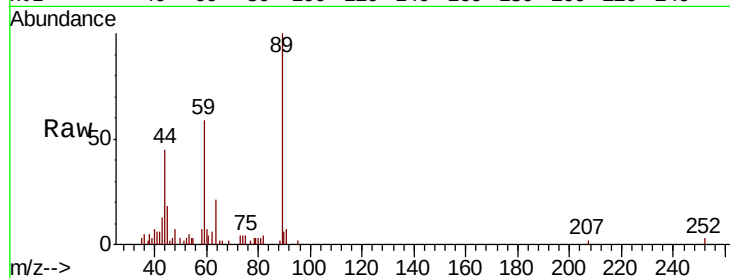
PB113401ZHE#04

Tot Ion: 59 Resp: 4678

Ion Ratio Lower Upper

59 100

57 1.6 8.6 12.8#



#16

Acetone

Concen: 11.452 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004936.D

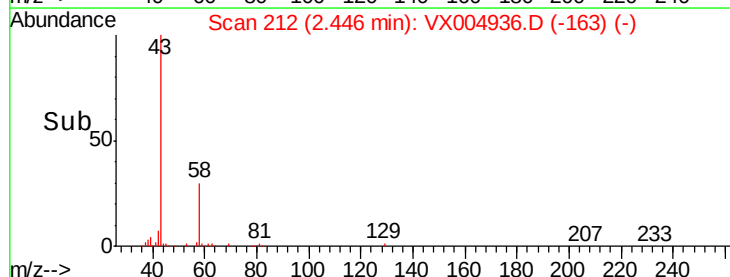
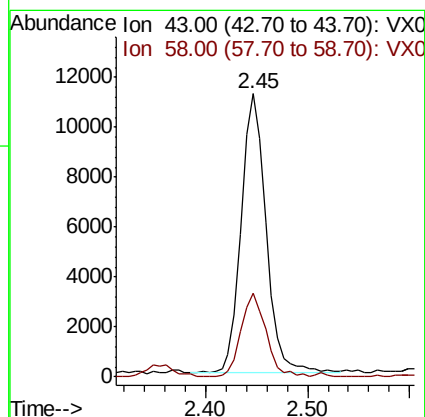
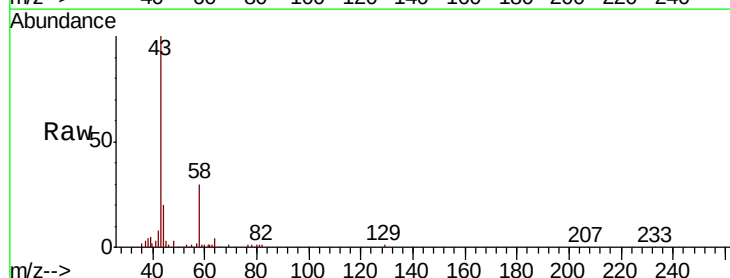
Acq: 02 Oct 2018 23:02

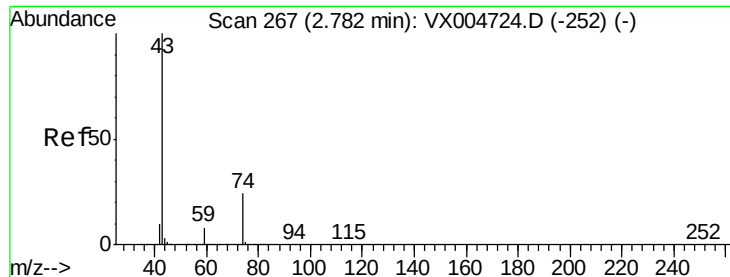
Tgt Ion: 43 Resp: 18733

Ion Ratio Lower Upper

43 100

58 30.0 21.8 32.6

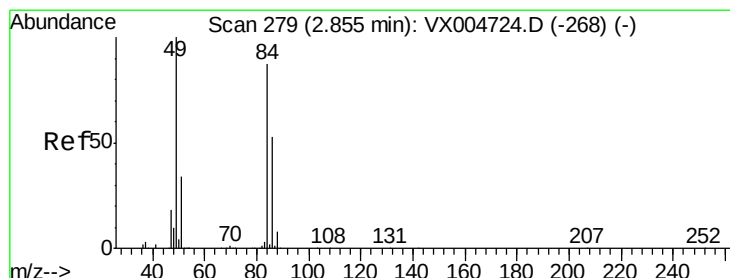
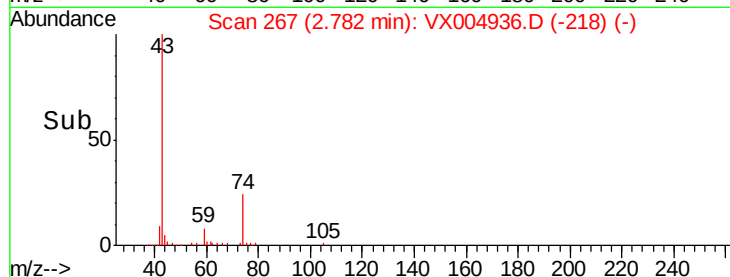
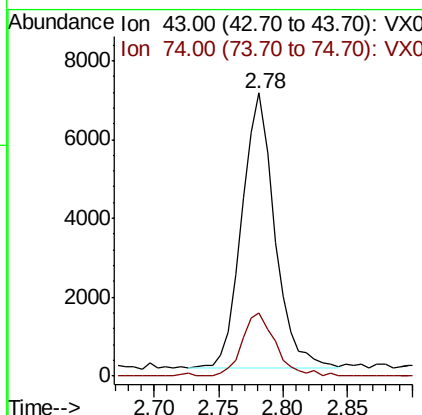
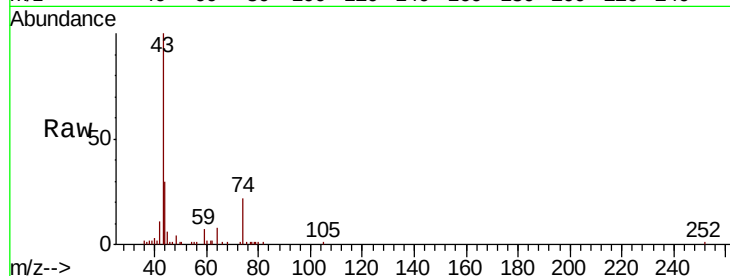




#18
Methvl Acetate
Concen: 2.978 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

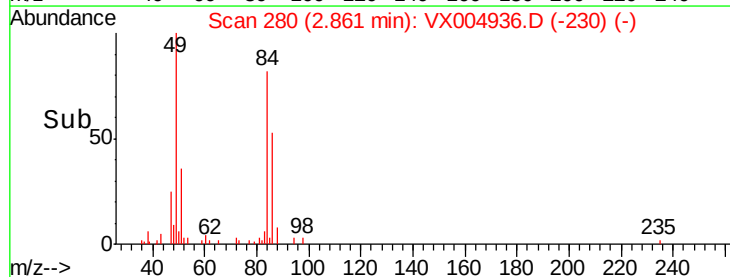
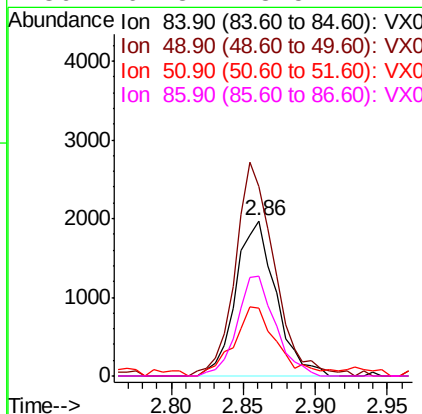
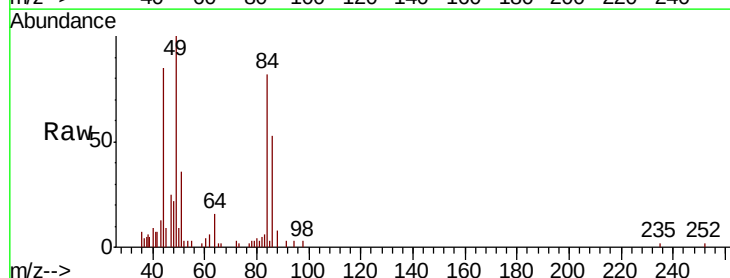
Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#04

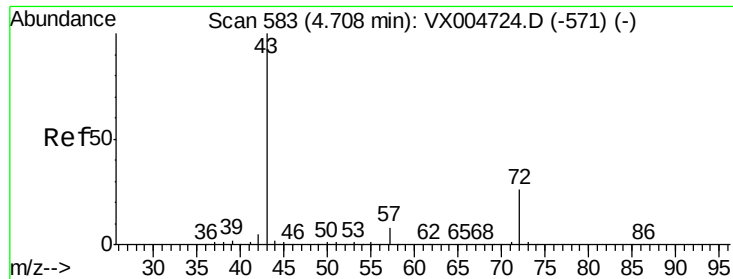
Tot Ion: 43 Resp: 12341
Ion Ratio Lower Upper
43 100
74 23.4 17.8 26.8



#20
Methylene Chloride
Concen: 0.784 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Tgt Ion: 84 Resp: 3830
Ion Ratio Lower Upper
84 100
49 121.7 92.3 138.5
51 43.9 31.8 47.6
86 64.3 48.5 72.7





#25

2-Butanone

Concen: 1.596 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

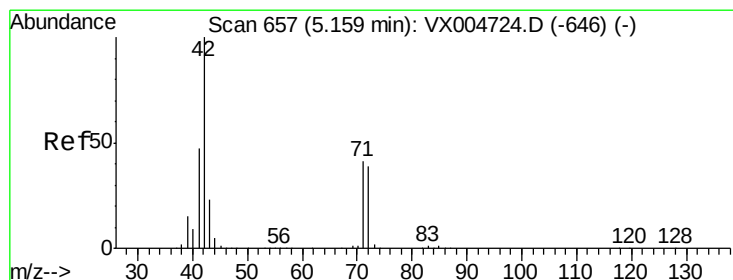
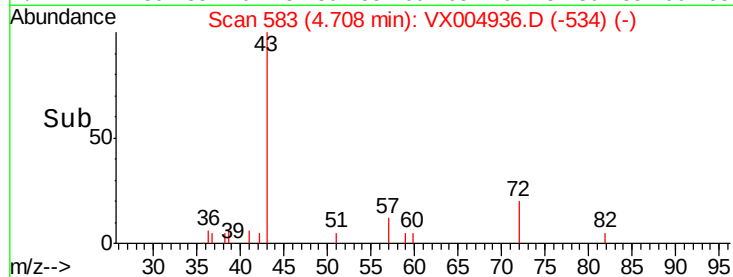
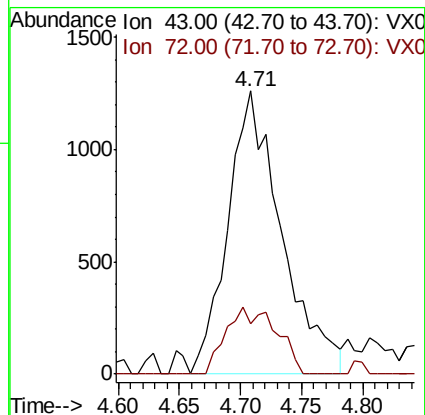
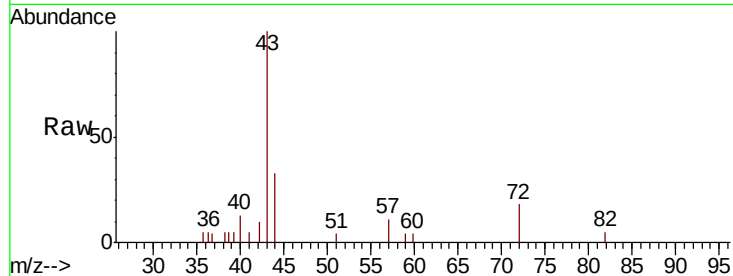
PB113401ZHE#04

Tot Ion: 43 Resp: 3849

Ion Ratio Lower Upper

43 100

72 18.0 20.8 31.2#



#29

Tetrahydrofuran

Concen: 1.158 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

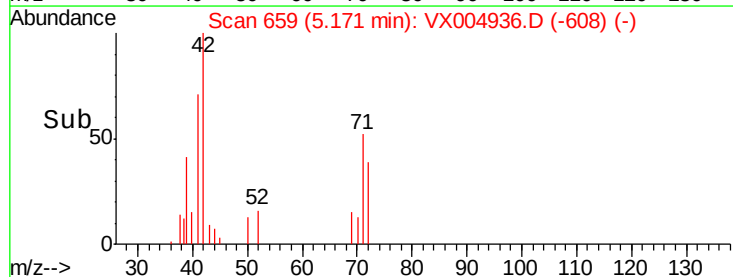
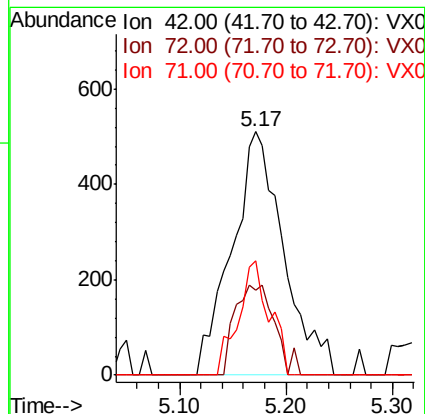
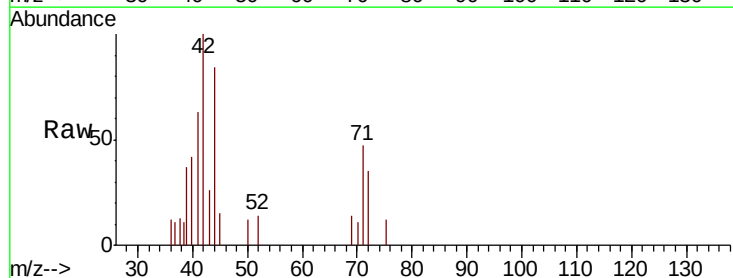
Tgt Ion: 42 Resp: 1736

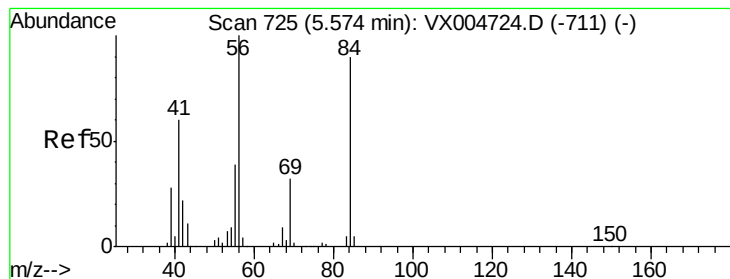
Ion Ratio Lower Upper

42 100

72 28.5 33.7 50.5#

71 28.7 32.2 48.4#





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

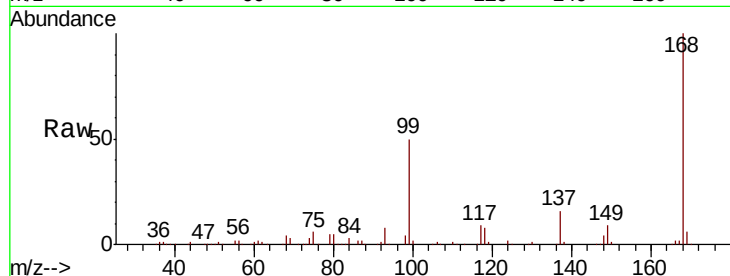
Tot Ion: 56 Resp: 3764

Ion Ratio Lower Upper

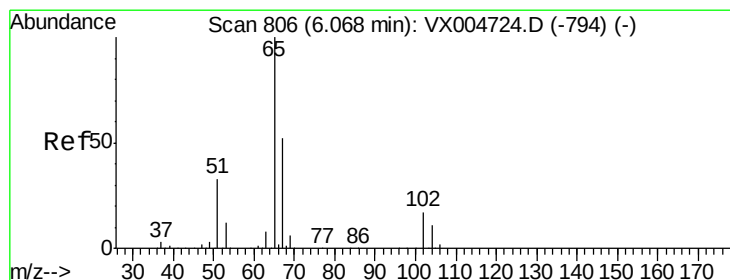
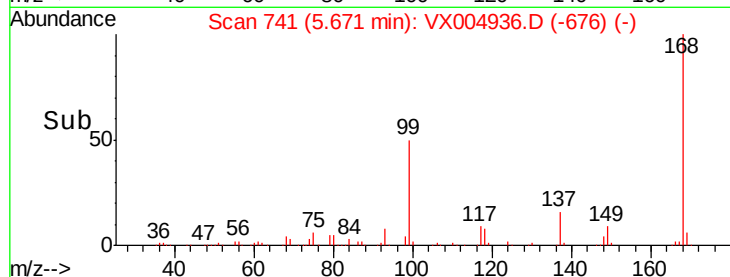
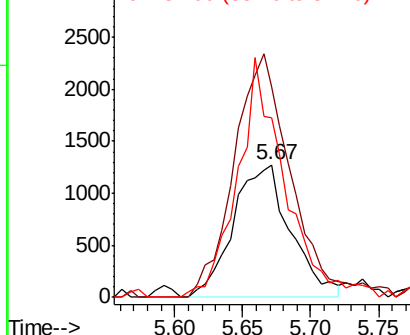
56 100

69 159.2 25.9 38.9#

84 131.7 71.9 107.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 57.531 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004936.D

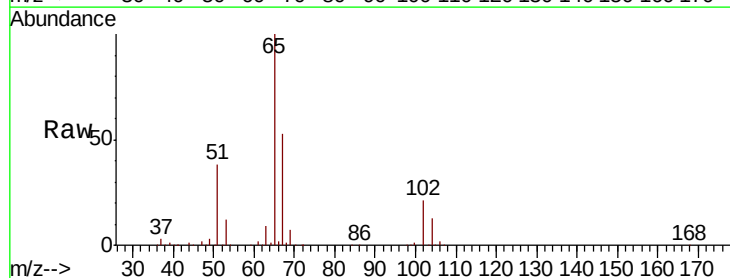
Acq: 02 Oct 2018 23:02

Tgt Ion: 65 Resp: 161195

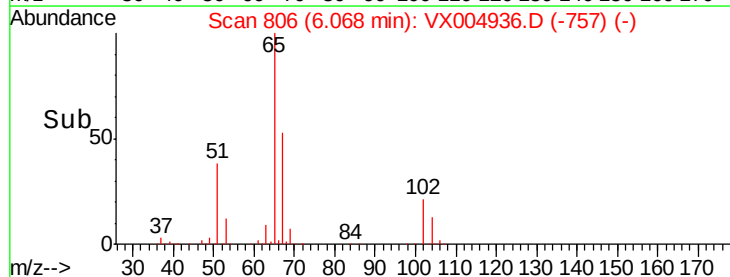
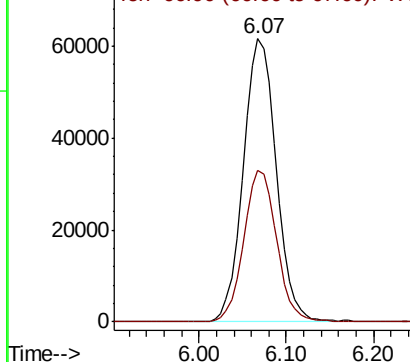
Ion Ratio Lower Upper

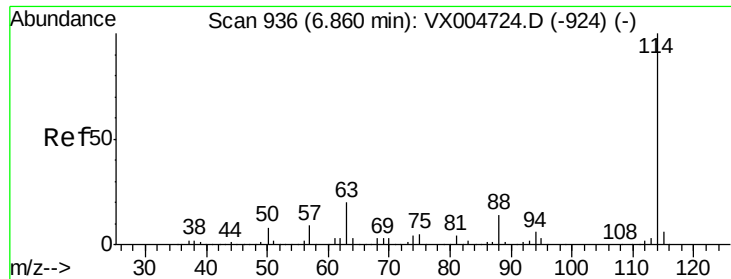
65 100

67 53.4 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

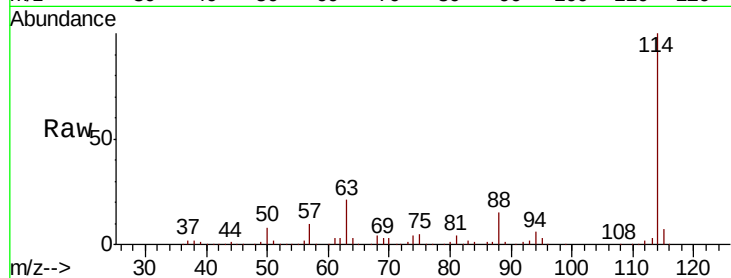




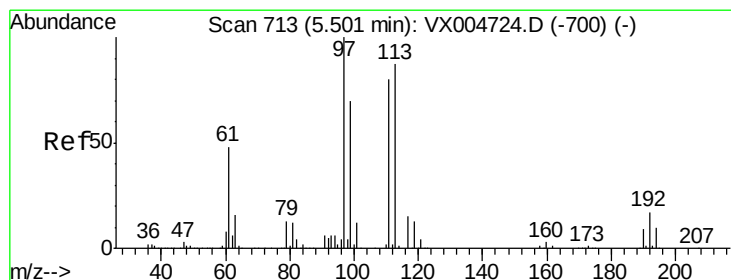
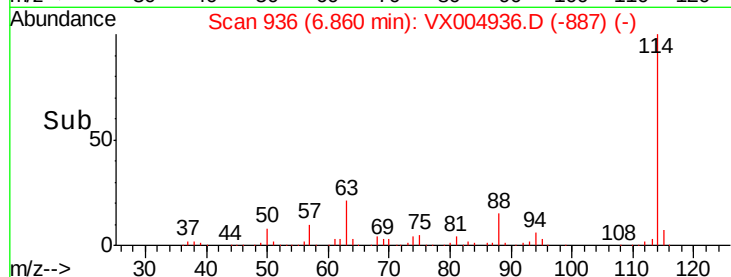
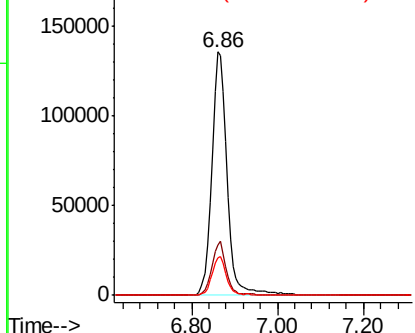
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#04

Tot Ion:114 Resp: 340418
Ion Ratio Lower Upper
114 100
63 20.6 0.0 39.8
88 15.4 0.0 27.0

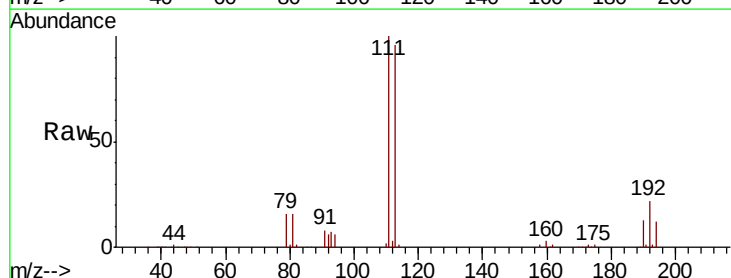


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

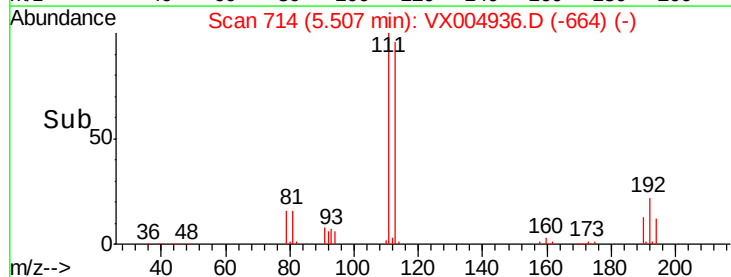
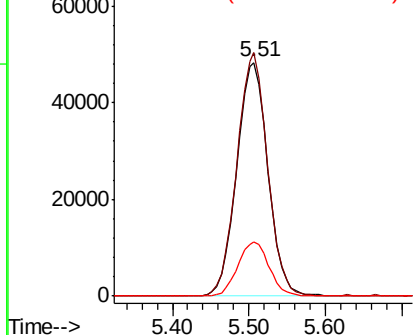


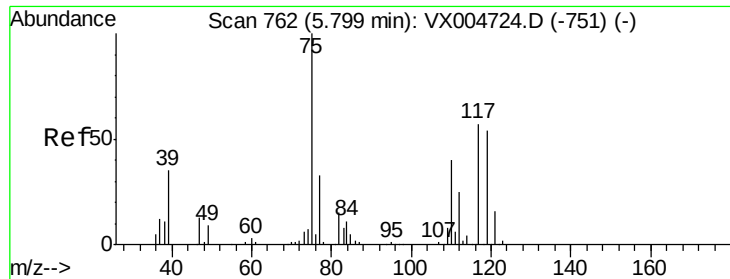
#35
Dibromofluoromethane
Concen: 47.377 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Tgt Ion:113 Resp: 136686
Ion Ratio Lower Upper
113 100
111 102.1 77.0 115.4
192 23.3 17.0 25.6



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: 3.427 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

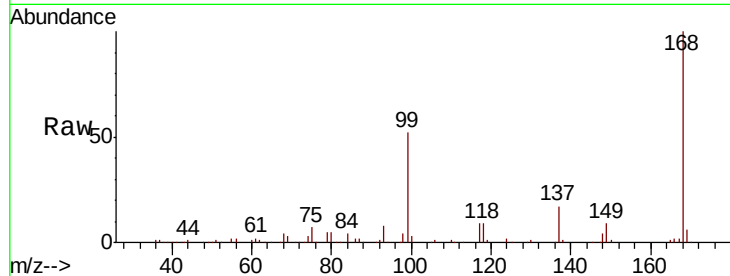
Tot Ion: 75 Resp: 13489

Ion Ratio Lower Upper

75 100

110 9.2 20.0 59.9#

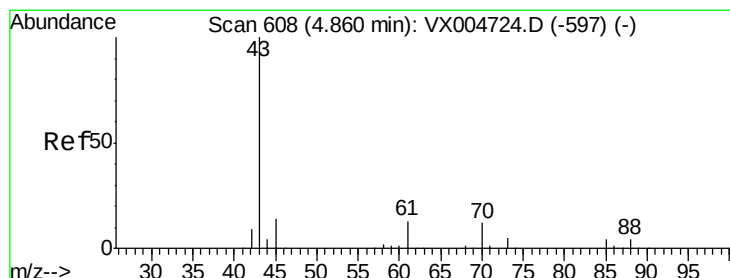
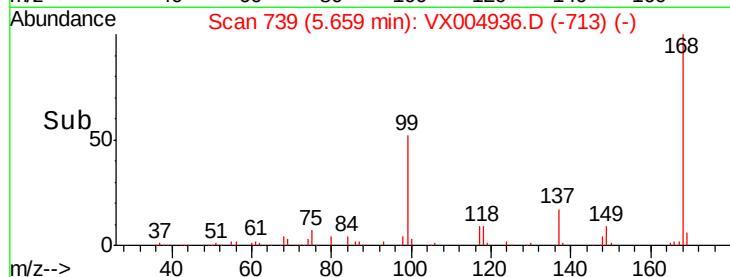
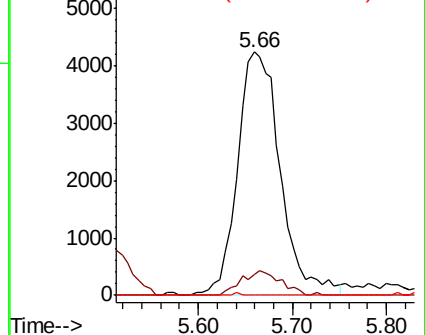
77 0.0 27.1 40.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.737 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

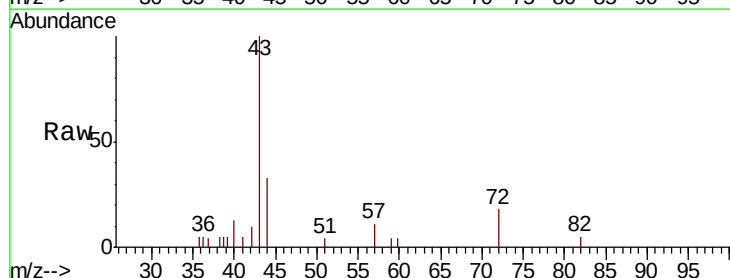
Tgt Ion: 43 Resp: 3849

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

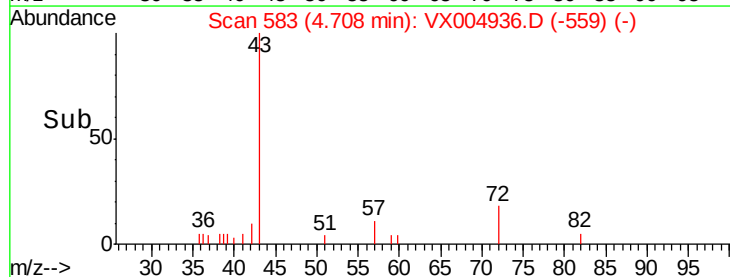
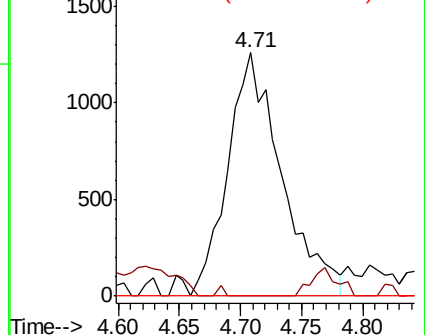
70 0.0 8.7 13.1#

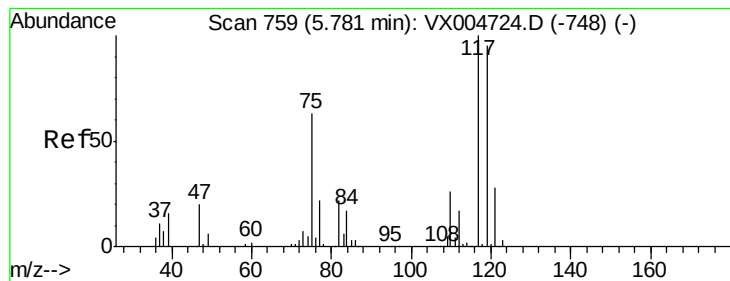


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 4.284 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

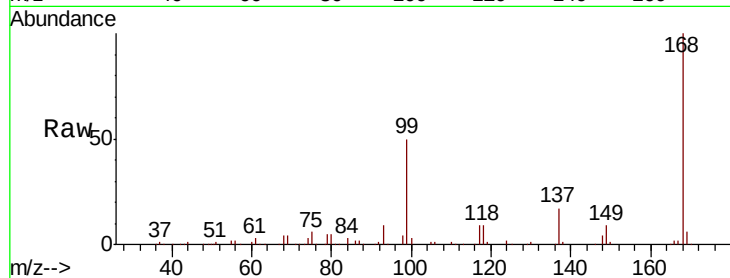
Tot Ion:117 Resp: 17726

Ion Ratio Lower Upper

117 100

119 6.4 75.2 112.8#

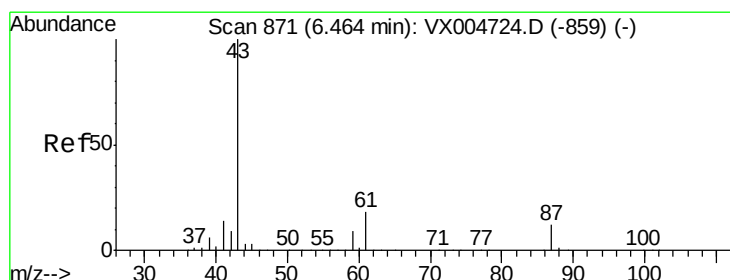
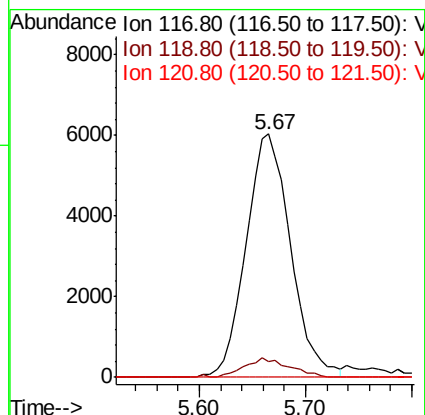
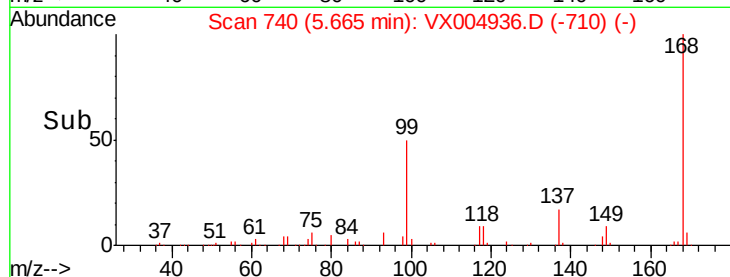
121 0.0 22.5 33.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 25.757 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

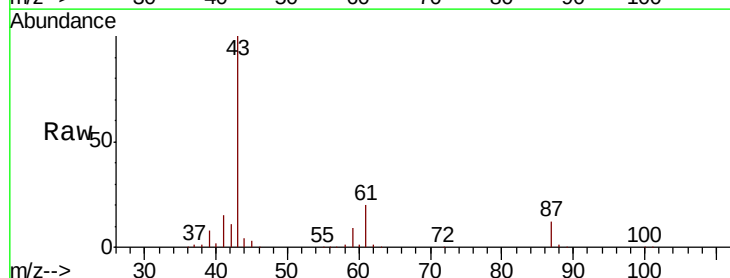
Tgt Ion: 43 Resp: 194246

Ion Ratio Lower Upper

43 100

61 19.1 14.2 21.4

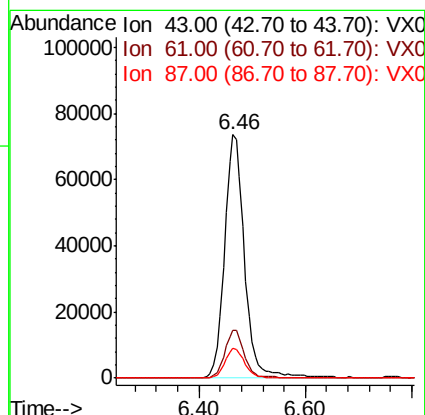
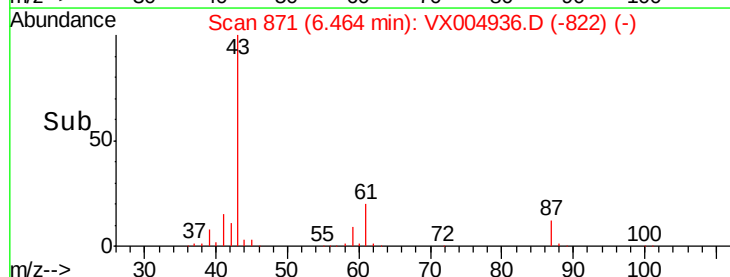
87 12.0 9.3 13.9

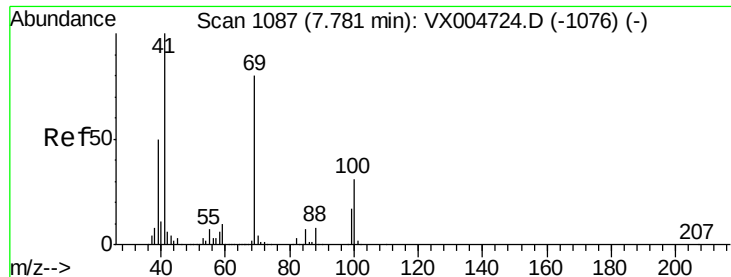


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

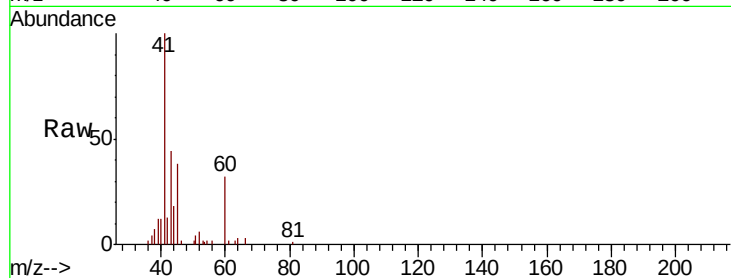




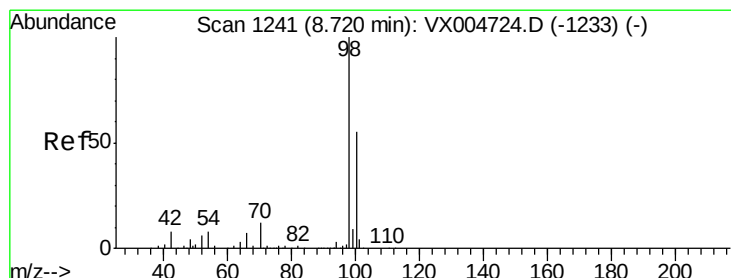
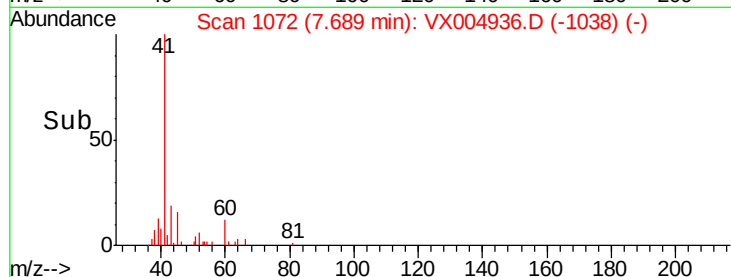
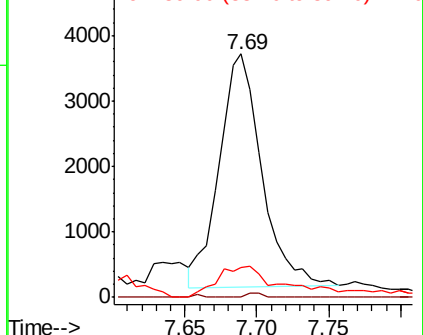
#48
Methvl methacrylate
Concen: 2.146 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#04

Tot Ion: 41 Resp: 7346
Ion Ratio Lower Upper
41 100
69 0.6 63.8 95.6#
39 22.0 40.7 61.1#

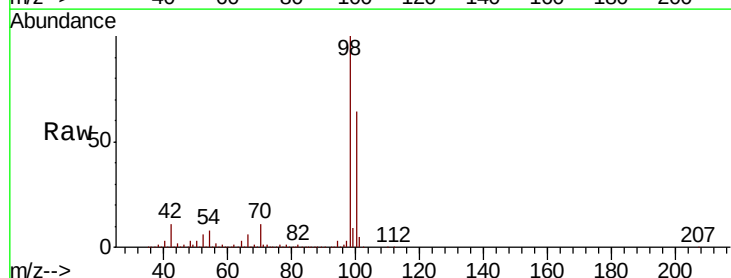


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

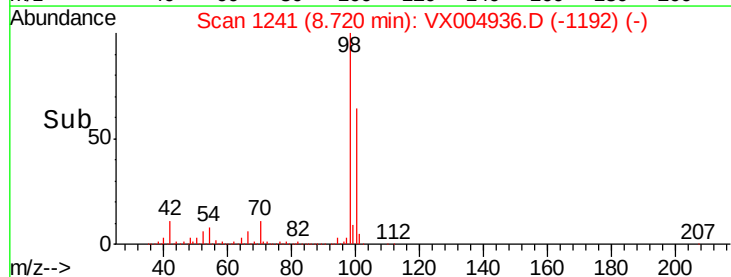
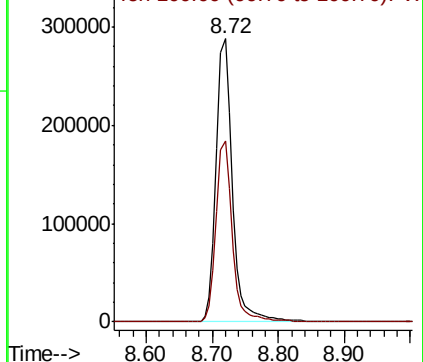


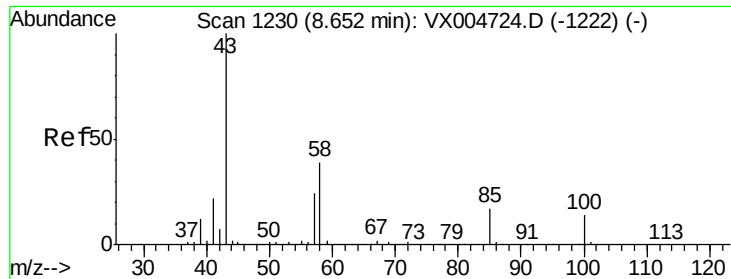
#50
Toluene-d8
Concen: 51.349 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Tgt Ion: 98 Resp: 492510
Ion Ratio Lower Upper
98 100
100 63.8 51.9 77.9



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

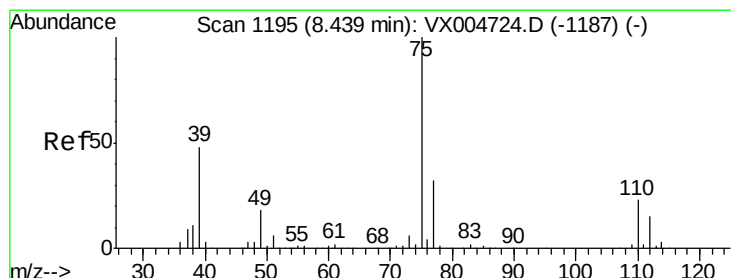
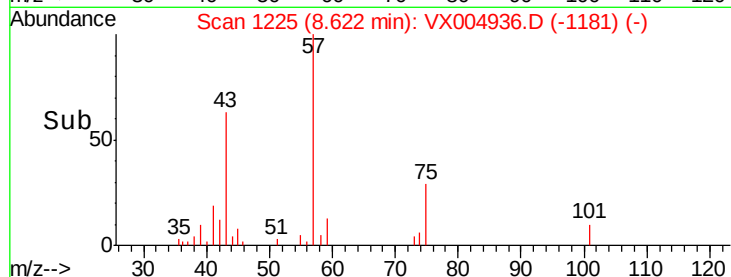
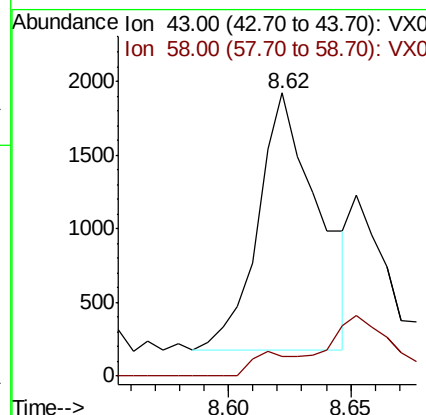
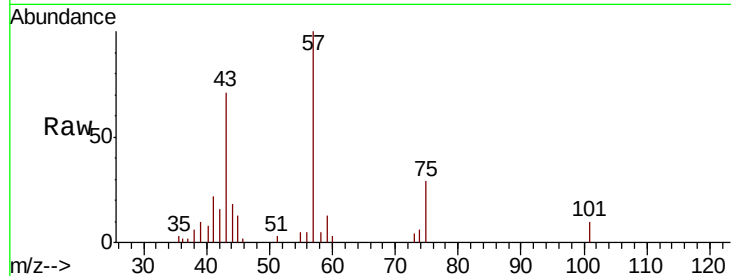




#51
 4-Methyl-2-Pentanone
 Concen: 0.632 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. -0.03 min
 Lab File: VX004936.D
 Acq: 02 Oct 2018 23:02

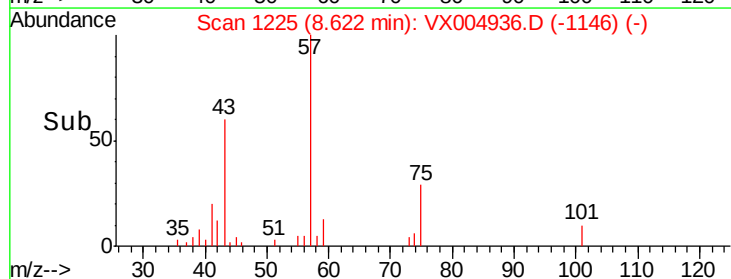
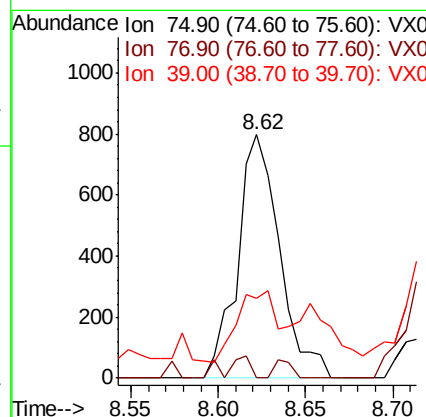
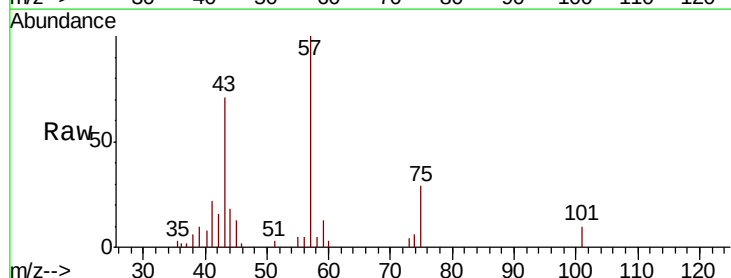
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113401ZHE#04

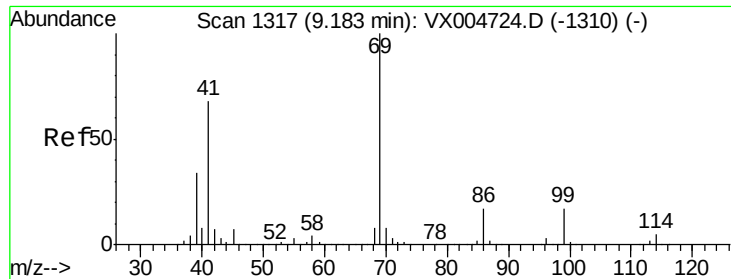
Tot Ion: 43 Resp: 3002
 Ion Ratio Lower Upper
 43 100
 58 6.7 30.5 45.7#



#54
 cis-1,3-Dichloropropene
 Concen: 0.317 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004936.D
 Acq: 02 Oct 2018 23:02

Tgt Ion: 75 Resp: 1334
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 25.2 38.3 57.5#





#56

Ethyl methacrylate

Concen: 2.993 ug/l

RT: 9.41 min Scan# 1354

Delta R.T. 0.23 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

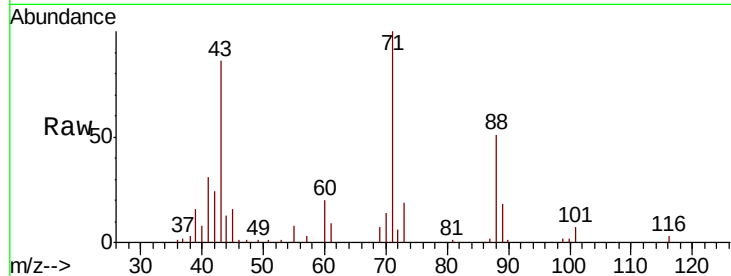
Tot Ion: 69 Resp: 666

Ion Ratio Lower Upper

69 100

41 453.0 56.9 85.3#

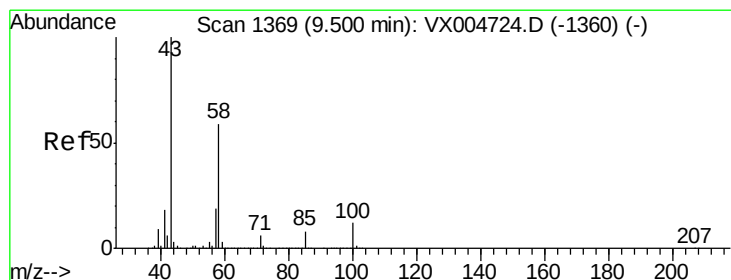
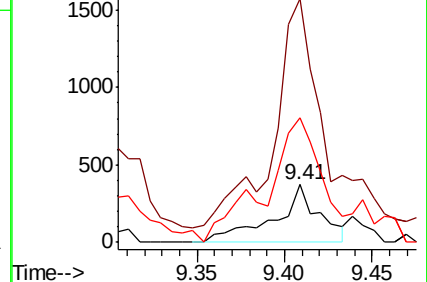
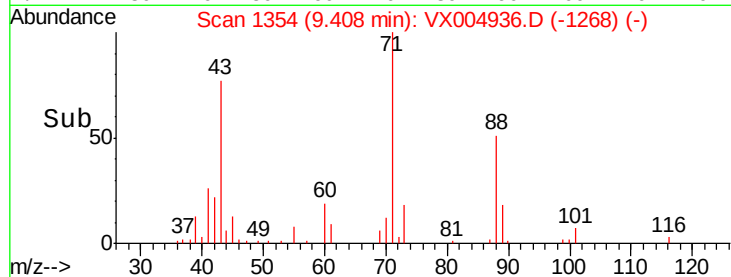
39 129.9 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 3.160 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004936.D

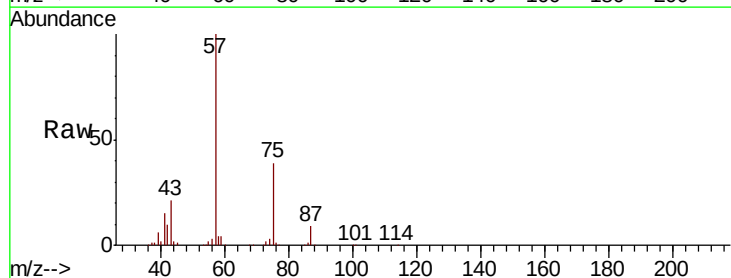
Acq: 02 Oct 2018 23:02

Tgt Ion: 43 Resp: 12504

Ion Ratio Lower Upper

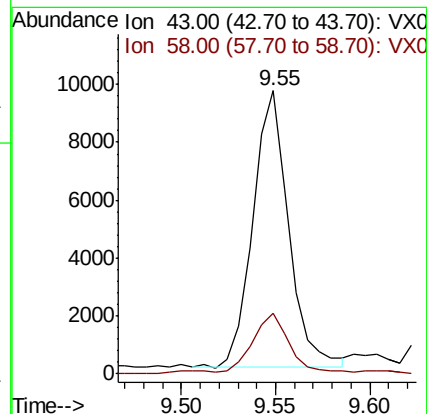
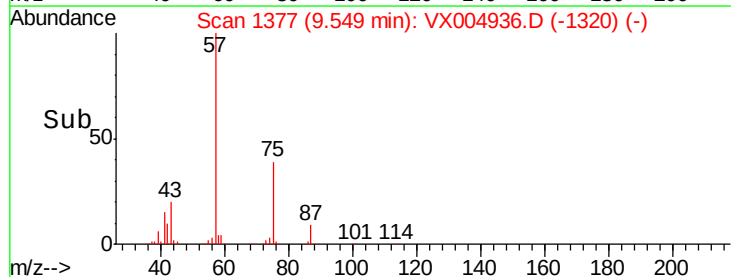
43 100

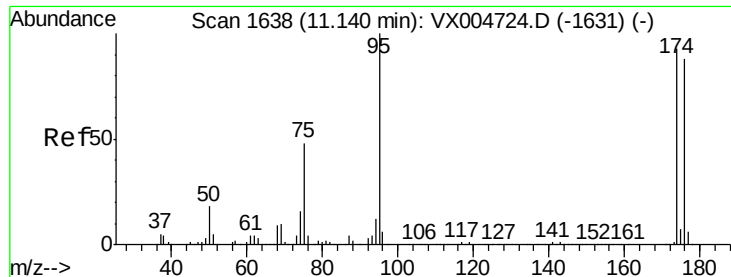
58 23.1 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

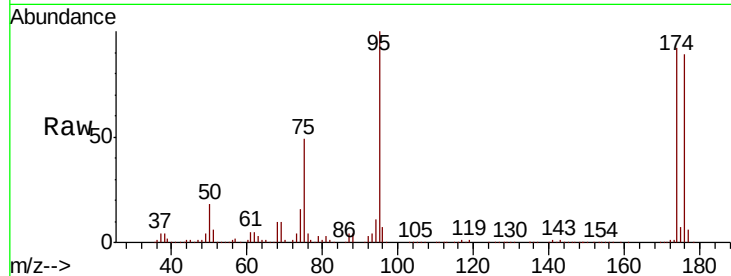




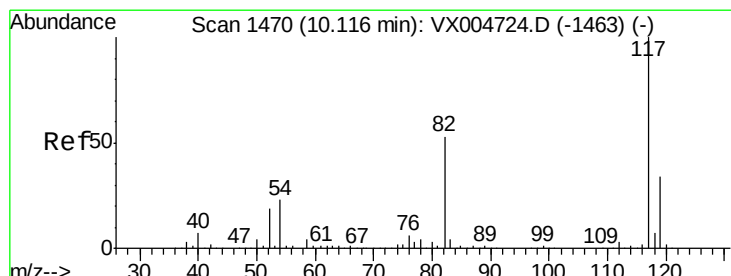
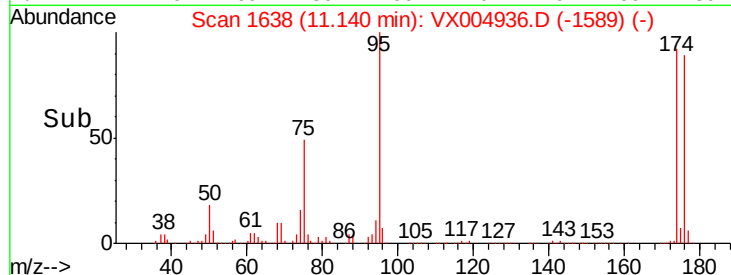
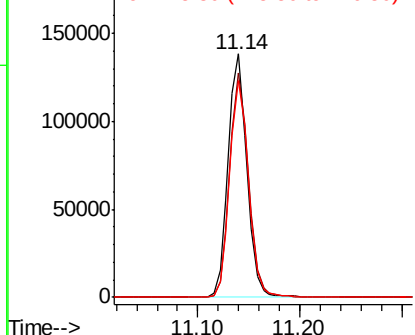
#62
4-Bromofluorobenzene
Concen: 50.849 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#04

Tot Ion: 95 Resp: 175702
Ion Ratio Lower Upper
95 100
174 92.6 0.0 185.0
176 89.8 0.0 180.2

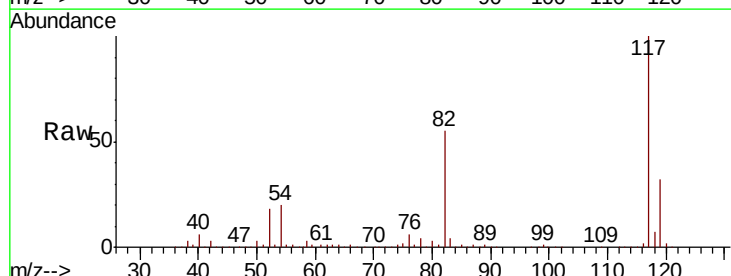


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

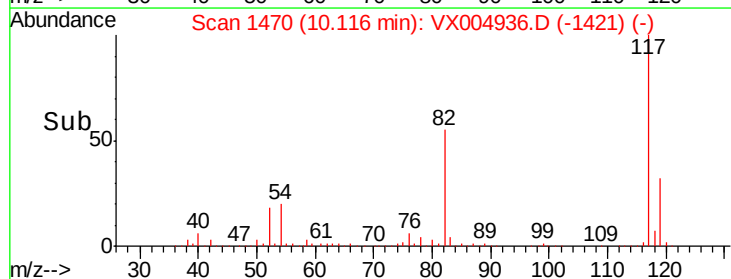
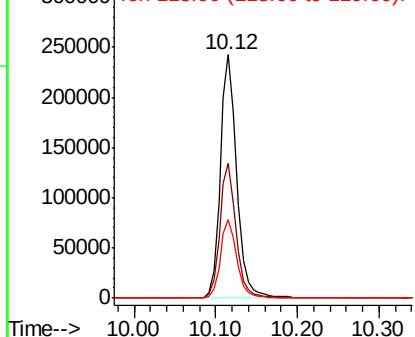


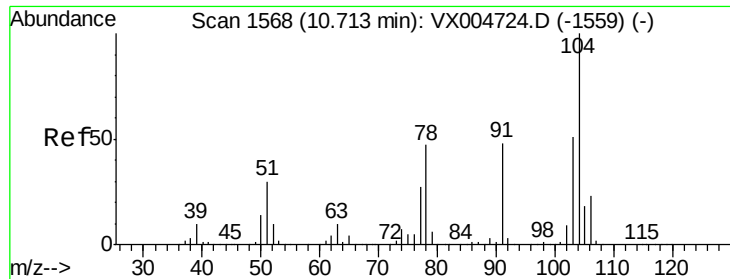
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004936.D
Acq: 02 Oct 2018 23:02

Tgt Ion: 117 Resp: 342144
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.4
119 32.0 27.4 41.0



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





#70

Stvrene

Concen: 2.169 ug/l

RT: 10.71 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

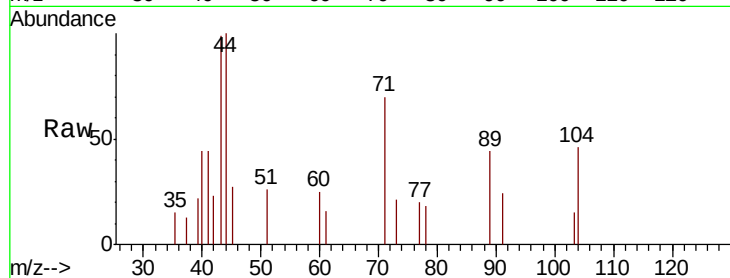
Tot Ion:104 Resp: 282

Ion Ratio Lower Upper

104 100

78 65.6 40.0 60.0#

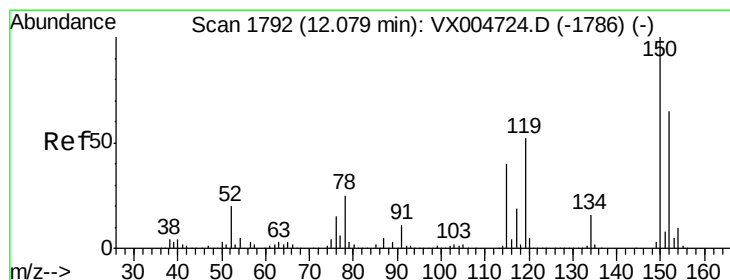
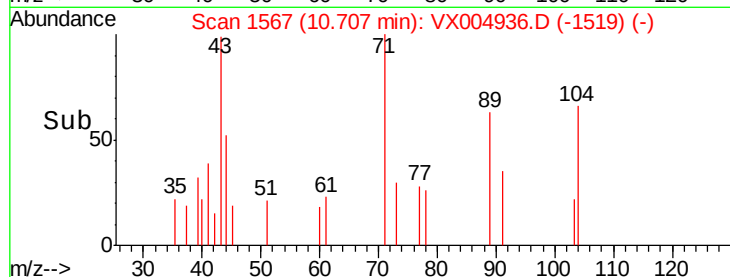
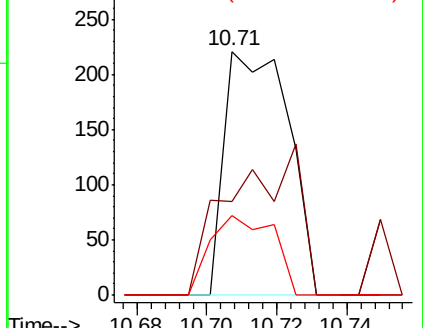
103 31.9 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

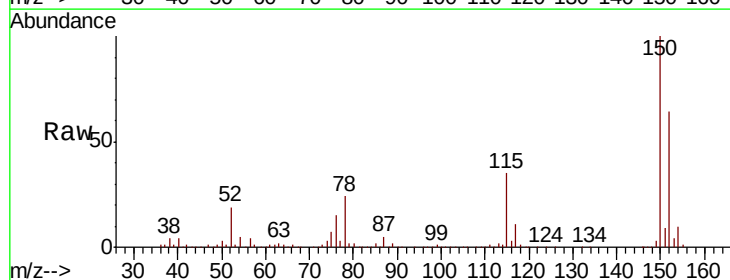
Tgt Ion:152 Resp: 183730

Ion Ratio Lower Upper

152 100

115 55.0 40.2 120.6

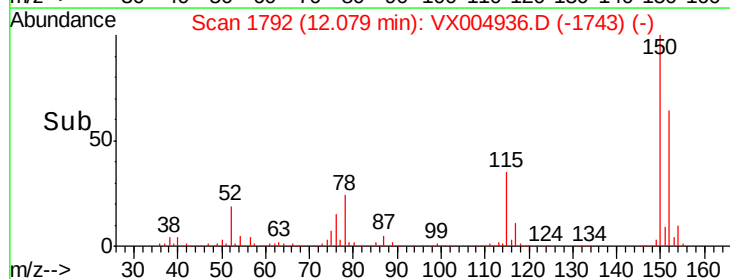
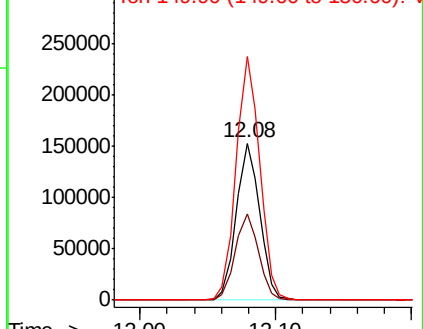
150 156.6 0.0 351.0

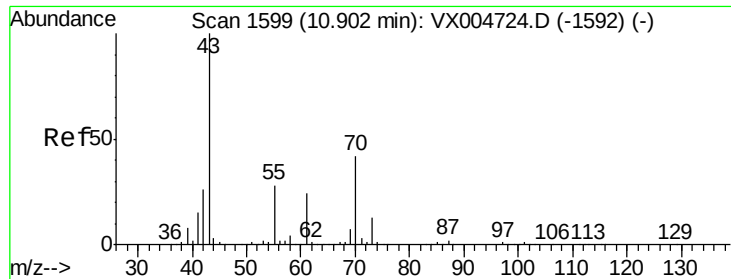


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.763 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

Tot Ion: 43 Resp: 102

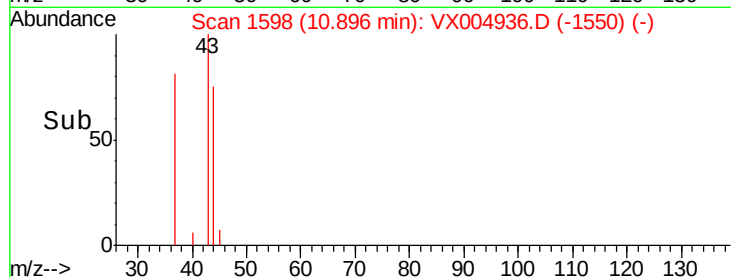
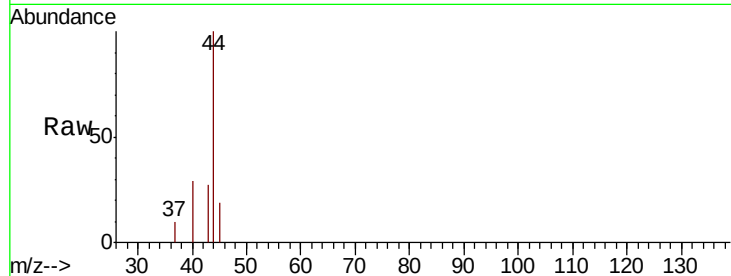
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

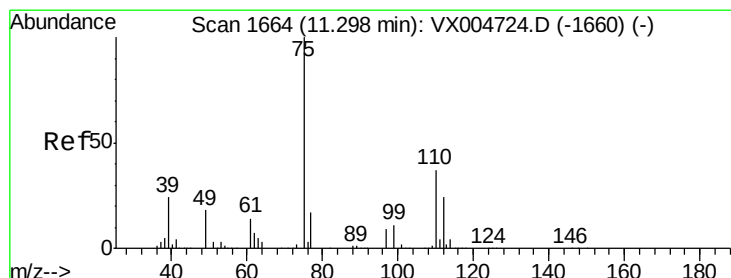
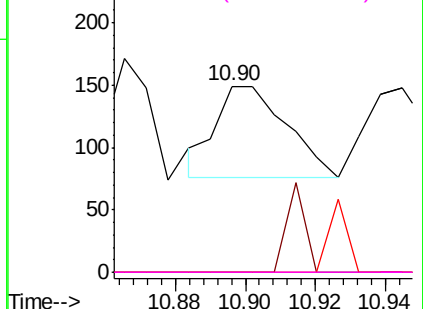


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.271 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004936.D

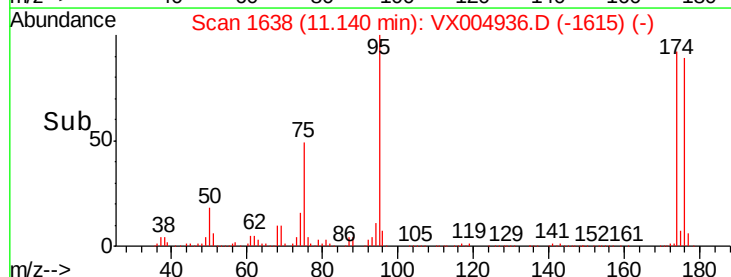
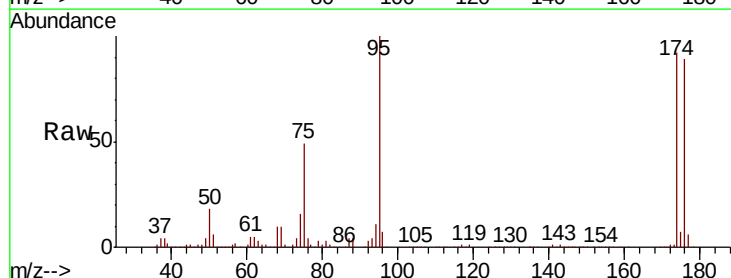
Acq: 02 Oct 2018 23:02

Tgt Ion: 75 Resp: 87595

Ion Ratio Lower Upper

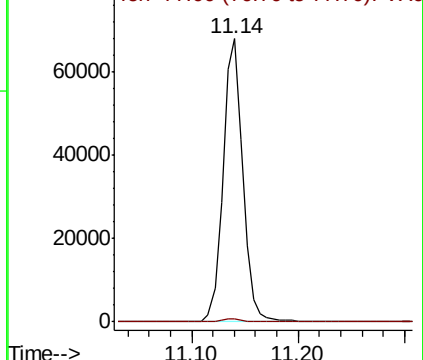
75 100

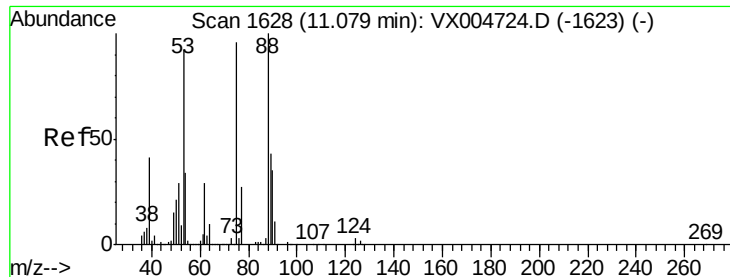
77 1.3 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.695 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#04

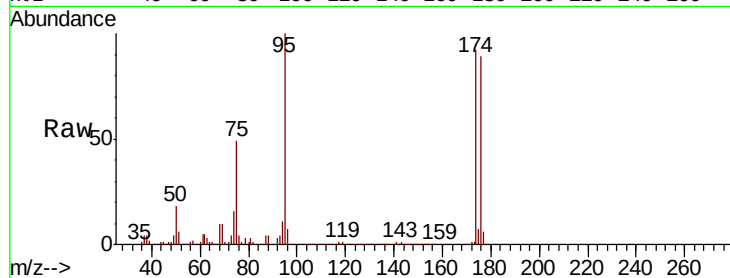
Tot Ion: 75 Resp: 87595

Ion Ratio Lower Upper

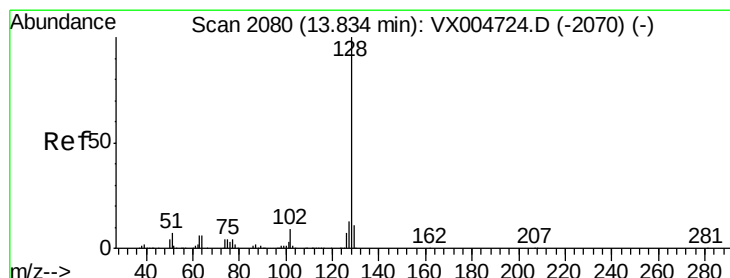
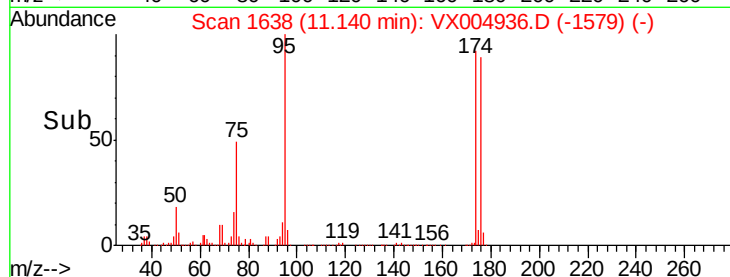
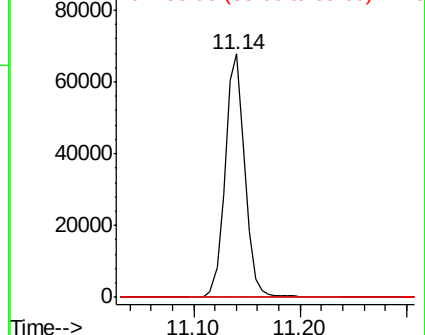
75 100

53 0.4 80.2 120.4#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.759 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004936.D

Acq: 02 Oct 2018 23:02

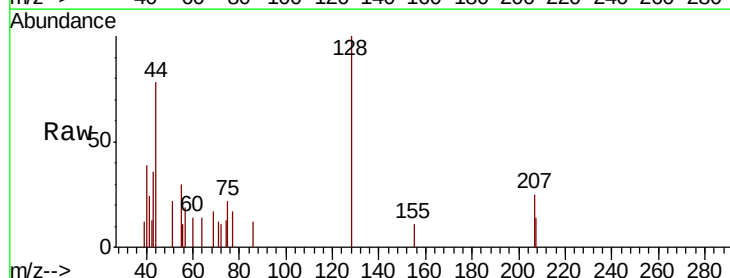
Tgt Ion: 128 Resp: 607

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



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

