

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005481.D
 Acq On : 22 Oct 2018 20:07
 Operator : JC/MD
 Sample : J5605-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-B

Quant Time: Oct 23 01:29:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	233112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	341260	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.12	117	299399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142187	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	154957	59.89	ug/l	0.00
Spiked Amount			Recovery	=	119.78%	
35) Dibromofluoromethane	5.50	113	118627	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
50) Toluene-d8	8.71	98	399800	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	11.14	95	130545	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	

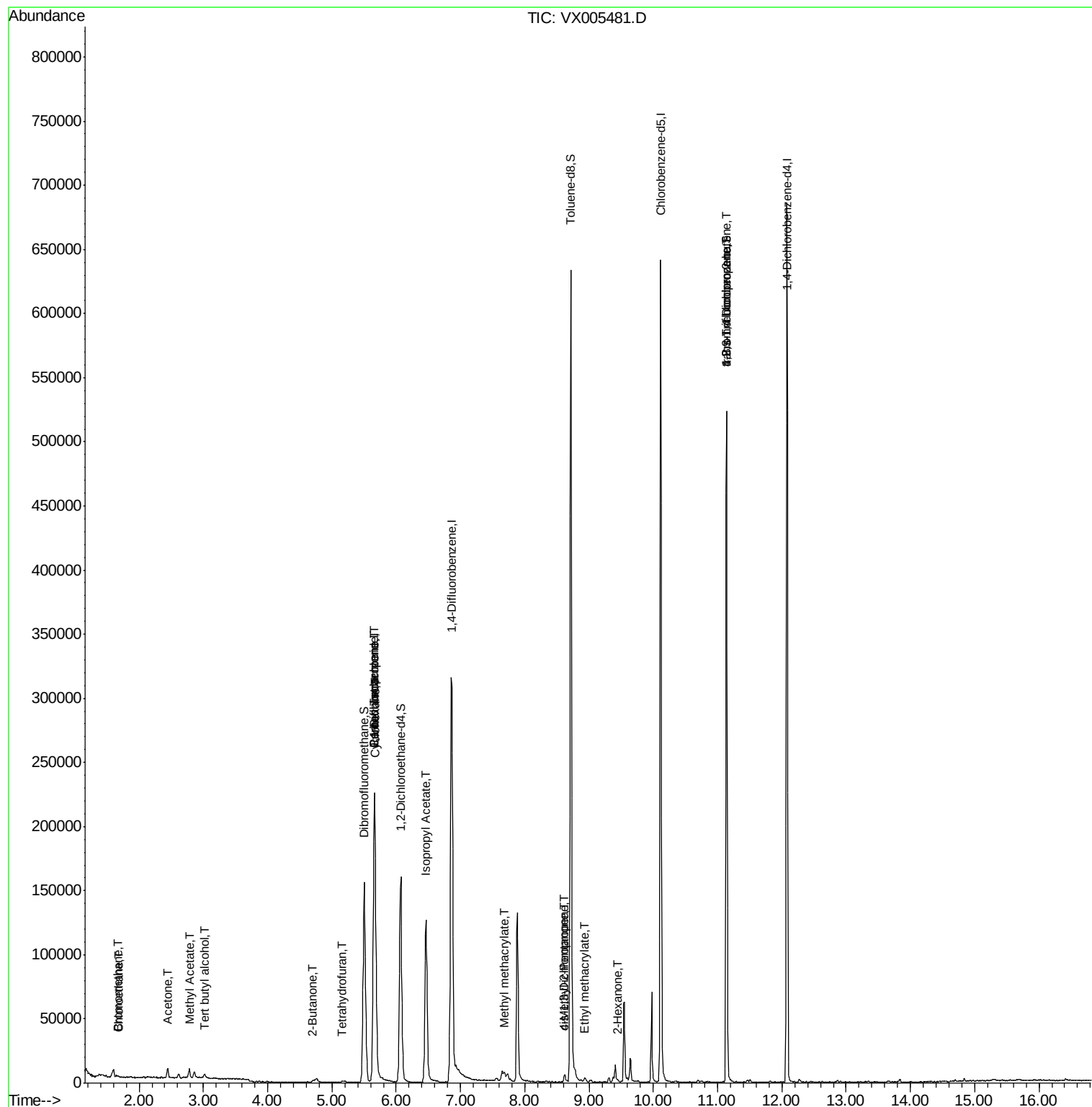
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	230	0.735	ug/l #	72
6) Chloroethane	1.70	64	151	0.421	ug/l #	44
11) Tert butyl alcohol	3.02	59	2194	3.006	ug/l #	93
13) Acrolein	2.28	56	56	Below Cal	#	16
16) Acetone	2.44	43	7923	5.297	ug/l #	85
18) Methyl Acetate	2.78	43	8166	1.919	ug/l	99
20) Methylene Chloride	2.86	84	1969	Below Cal	#	93
25) 2-Butanone	4.70	43	2171	0.992	ug/l	92
29) Tetrahydrofuran	5.16	42	1068	0.765	ug/l #	74
31) Cyclohexane	5.67	56	4428	1.245	ug/l #	17
36) 1,1-Dichloropropene	5.67	75	16919	5.119	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21263	6.403	ug/l #	15
43) Isopropyl Acetate	6.46	43	165684	29.263	ug/l	94
48) Methyl methacrylate	7.69	41	6214	2.116	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2879	0.734	ug/l #	40
54) cis-1,3-Dichloropropene	8.62	75	806	0.232	ug/l #	62
56) Ethyl methacrylate	8.94	69	1801	0.538	ug/l #	63
59) 2-Hexanone	9.44	43	1093	0.347	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	64648	23.440	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	64648	71.222	ug/l #	10

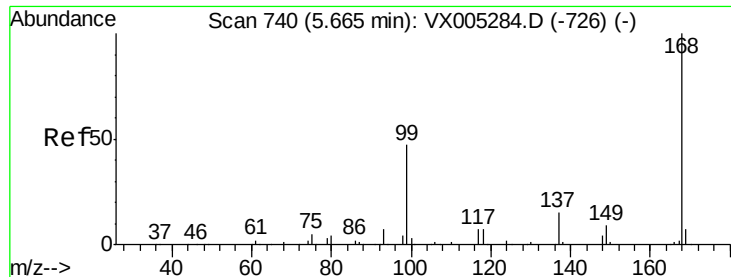
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

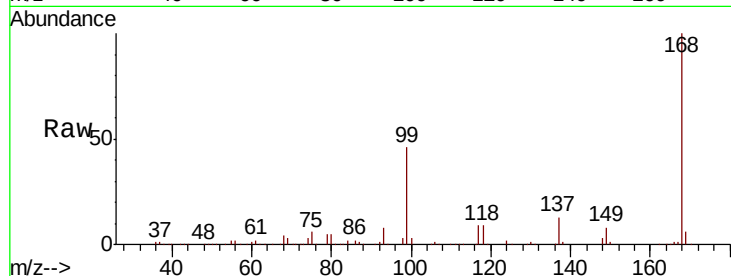
TP-B

Tot Ion:168 Resp: 233112

Ion Ratio Lower Upper

168 100

99 45.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

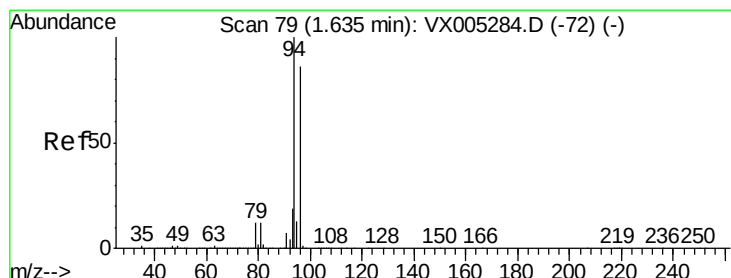
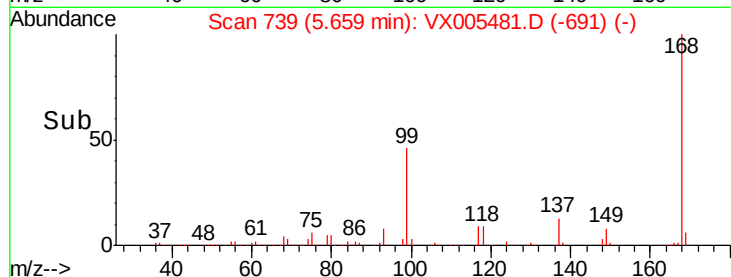
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.735 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.03 min

Lab File: VX005481.D

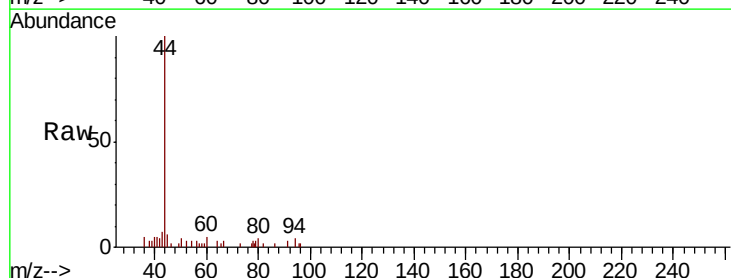
Acq: 22 Oct 2018 20:07

Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

94 100

96 120.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

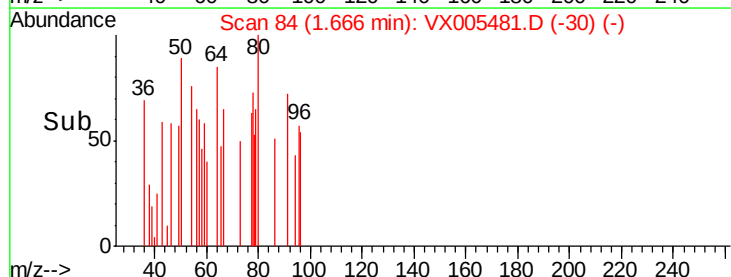
150

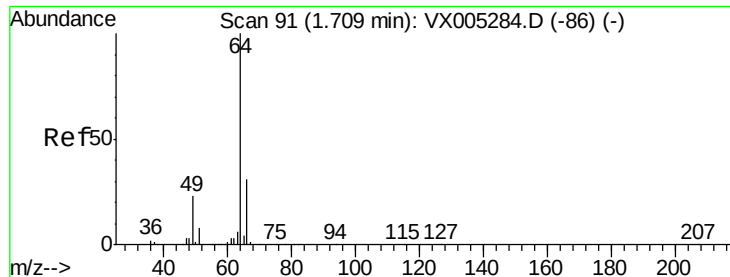
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.421 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.01 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

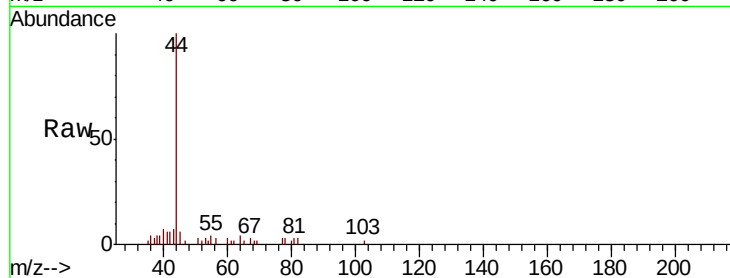
TP-B

Tot Ion: 64 Resp: 151

Ion Ratio Lower Upper

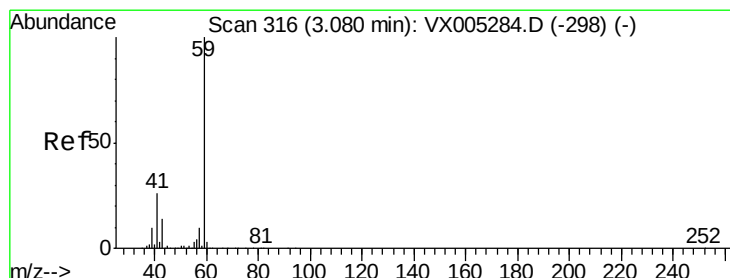
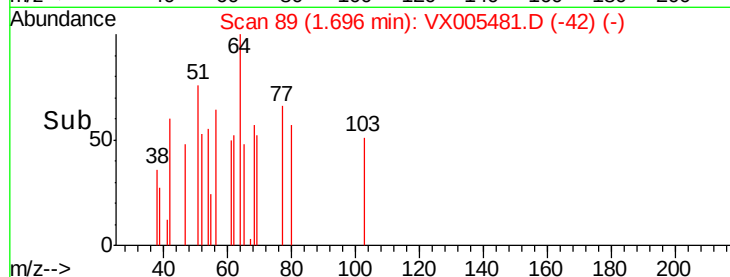
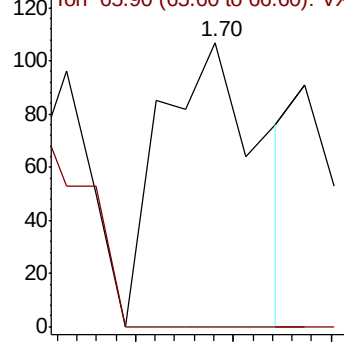
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 3.006 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005481.D

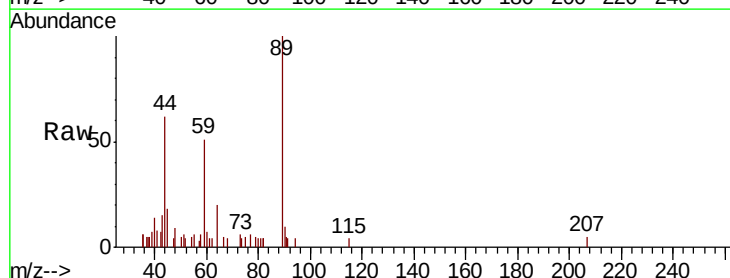
Acq: 22 Oct 2018 20:07

Tgt Ion: 59 Resp: 2194

Ion Ratio Lower Upper

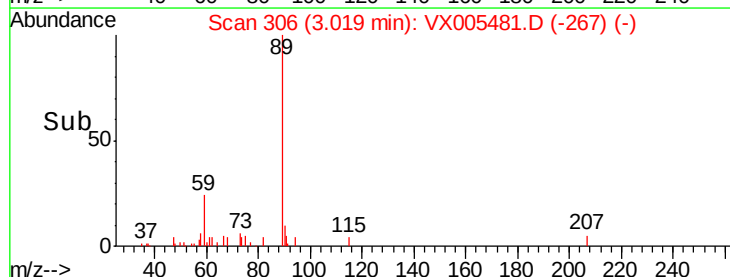
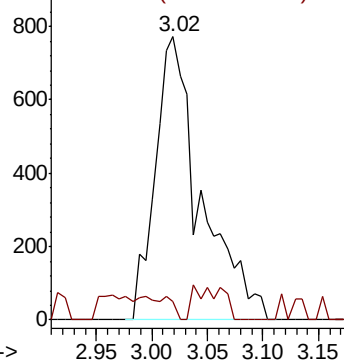
59 100

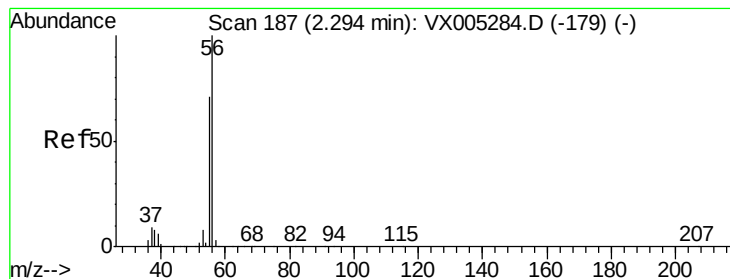
57 7.7 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

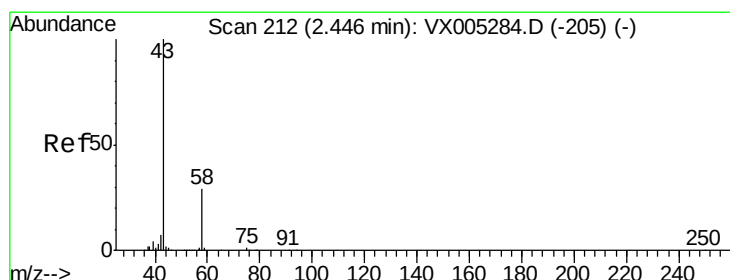
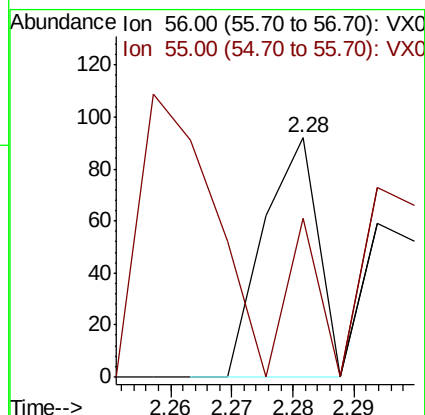
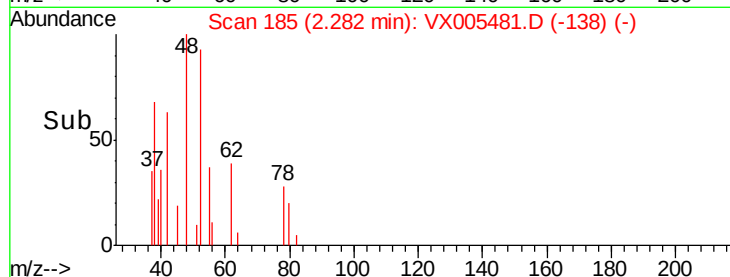
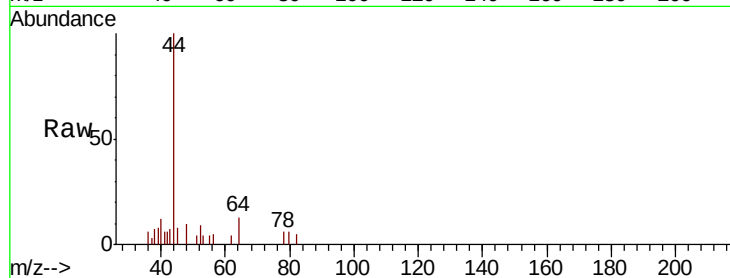
TP-B

Tot Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#16

Acetone

Concen: 5.297 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005481.D

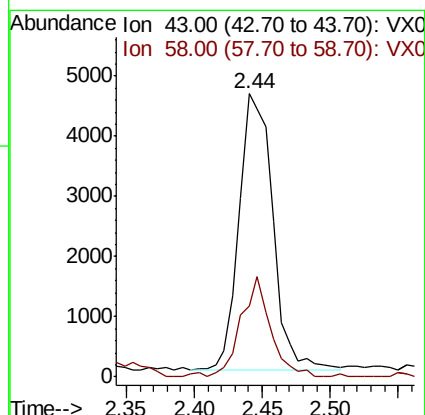
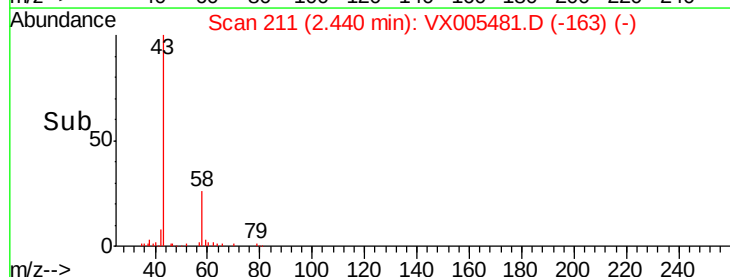
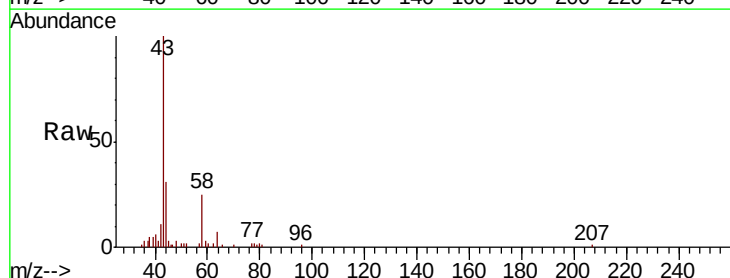
Acq: 22 Oct 2018 20:07

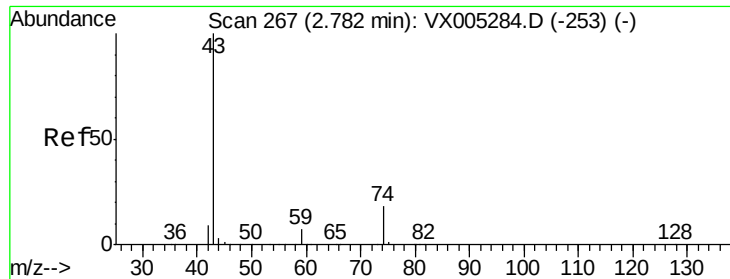
Tgt Ion: 43 Resp: 7923

Ion Ratio Lower Upper

43 100

58 24.4 26.2 39.4#

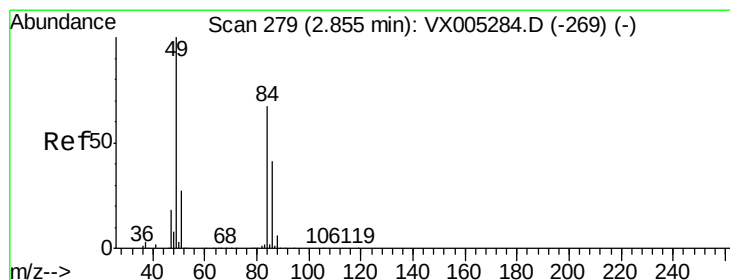
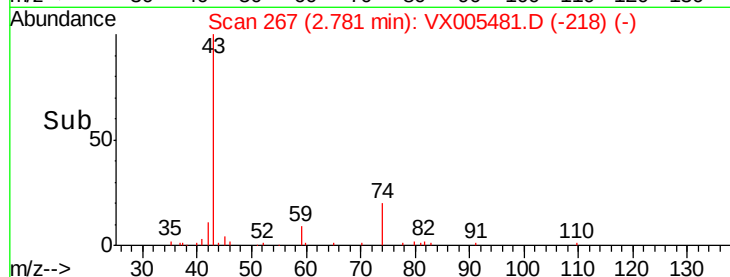
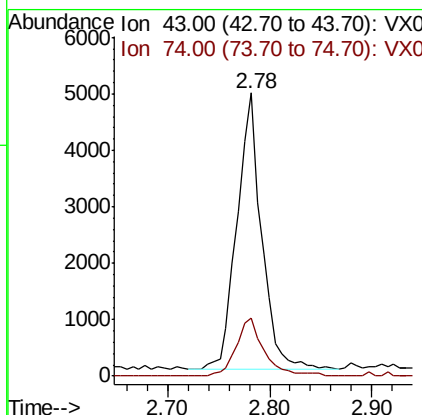
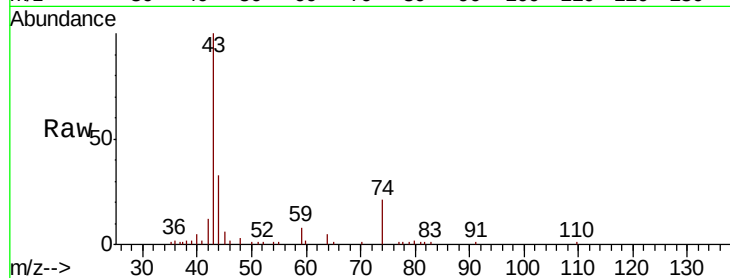




#18
Methyl Acetate
Concen: 1.919 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

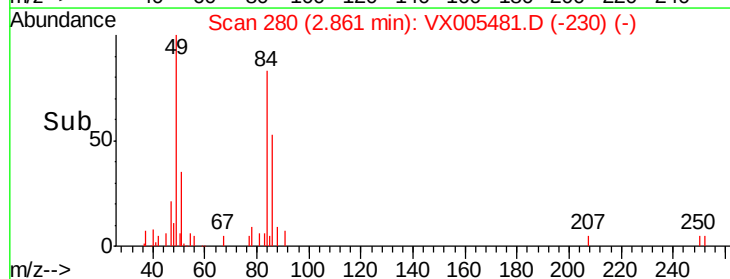
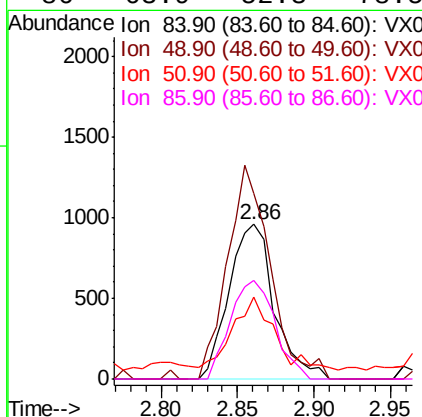
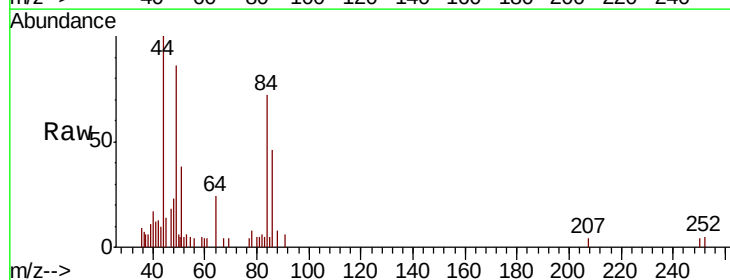
Instrument :
MSVOA_X
ClientSampled :
TP-B

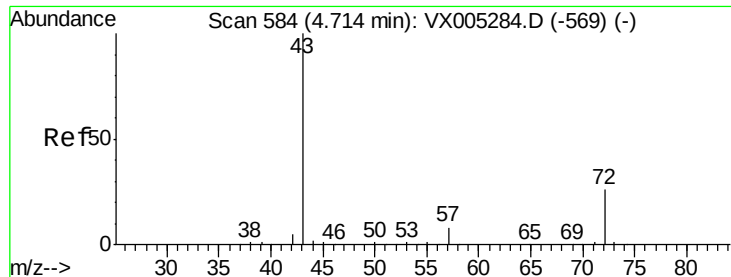
Tot Ion: 43 Resp: 8166
Ion Ratio Lower Upper
43 100
74 24.0 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

Tgt Ion: 84 Resp: 1969
Ion Ratio Lower Upper
84 100
49 120.0 101.2 151.8
51 47.6 29.5 44.3#
86 63.9 52.3 78.5





#25

2-Butanone

Concen: 0.992 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.02 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

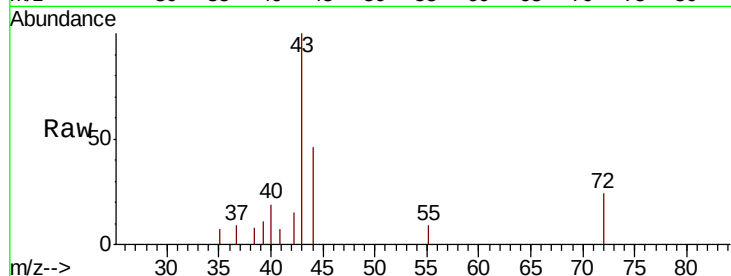
TP-B

Tot Ion: 43 Resp: 2171

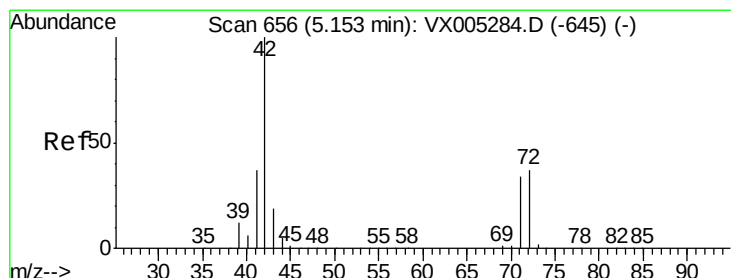
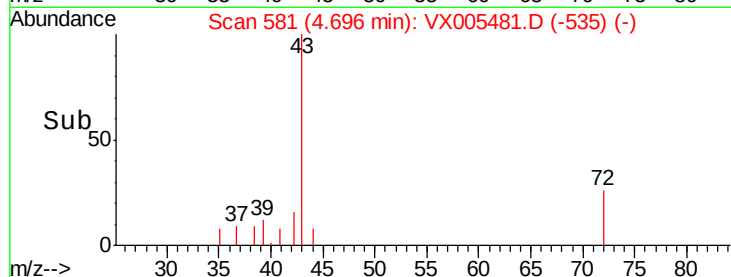
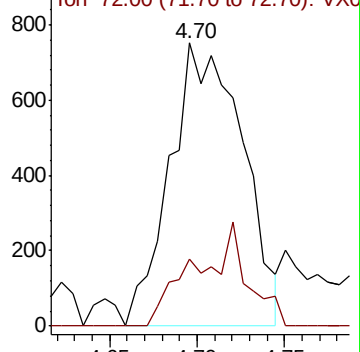
Ion Ratio Lower Upper

43 100

72 23.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.765 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

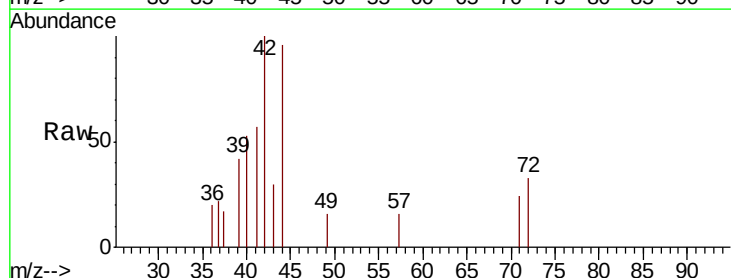
Tgt Ion: 42 Resp: 1068

Ion Ratio Lower Upper

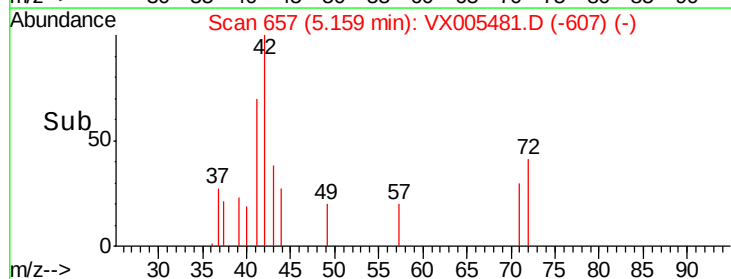
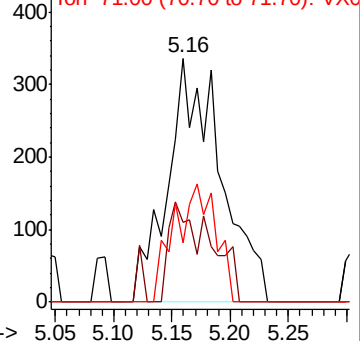
42 100

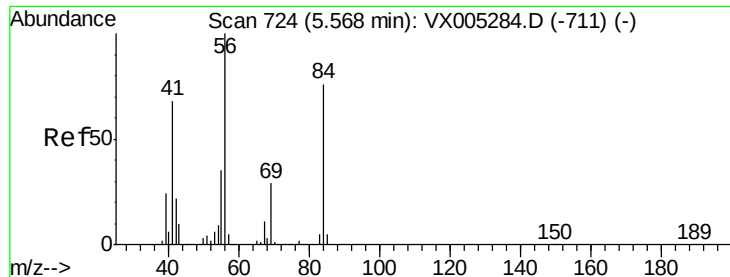
72 18.2 37.4 56.0#

71 37.5 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

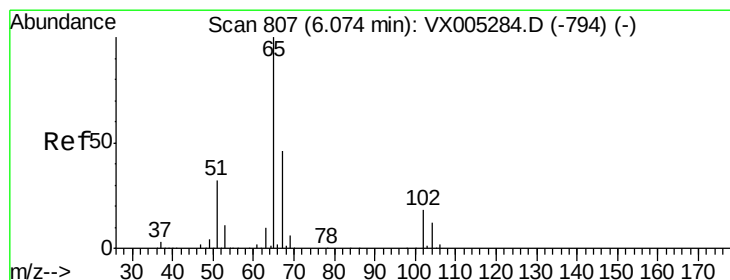
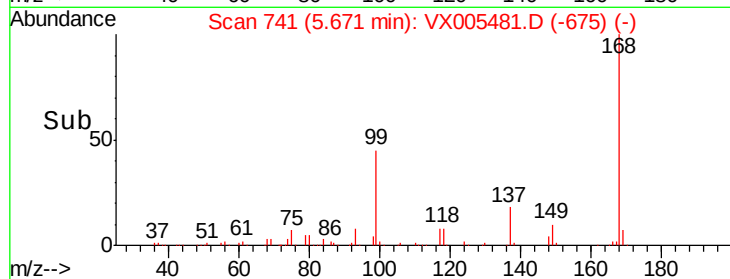
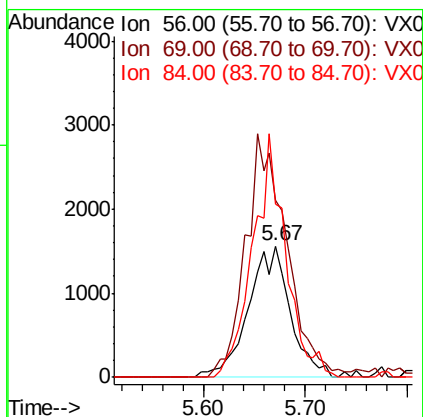
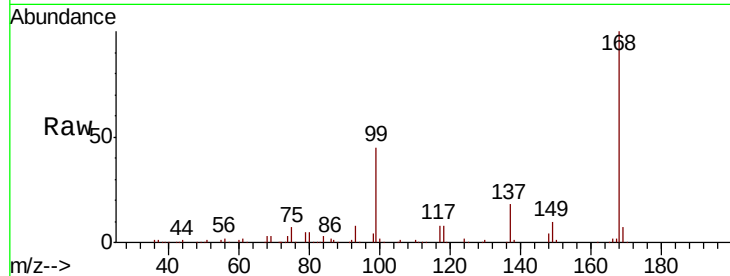




#31
Cyclohexane
Concen: 1.245 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

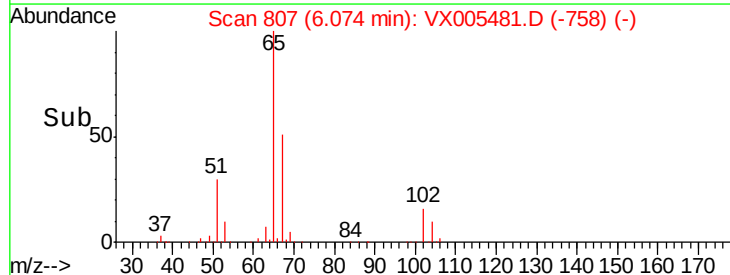
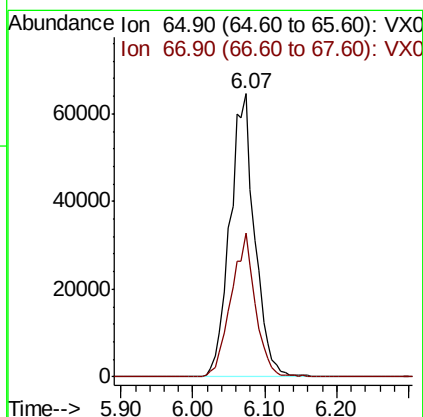
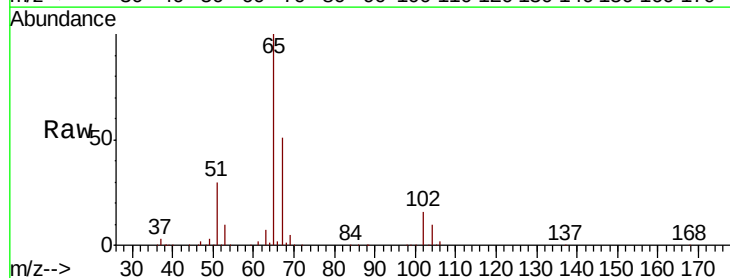
Instrument :
MSVOA_X
ClientSampled :
TP-B

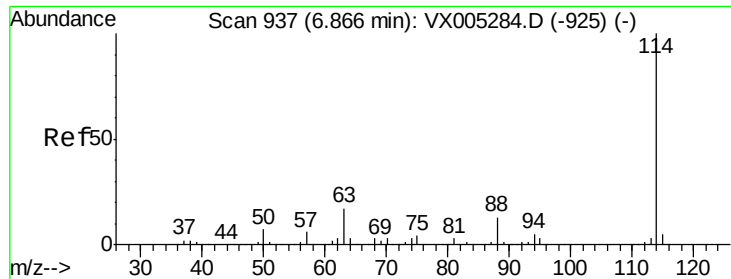
Tot Ion: 56 Resp: 4428
Ion Ratio Lower Upper
56 100
69 135.3 25.4 38.2#
84 132.4 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 59.894 ug/l
RT: 6.07 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

Tgt Ion: 65 Resp: 154957
Ion Ratio Lower Upper
65 100
67 49.9 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampleId :

TP-B

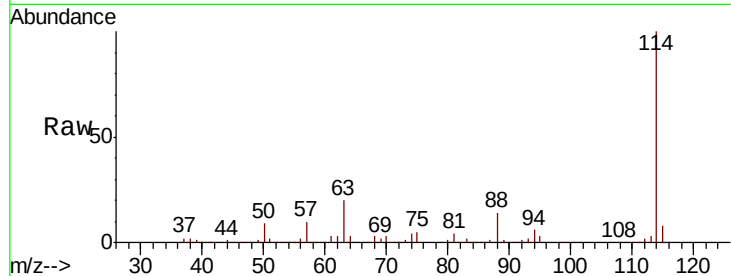
Tot Ion:114 Resp: 341260

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

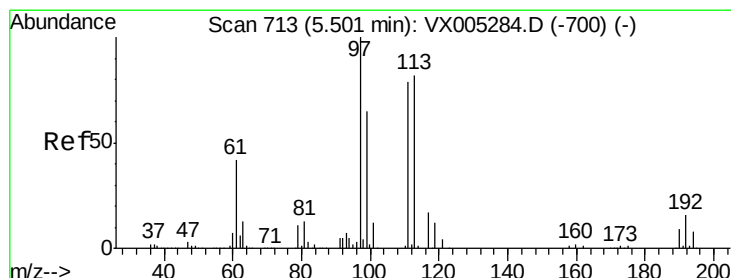
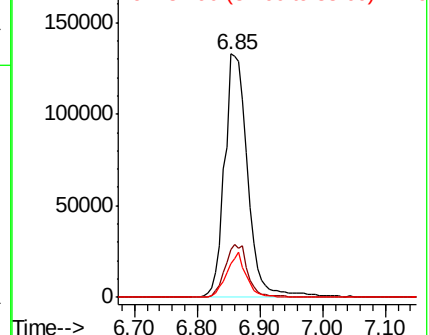
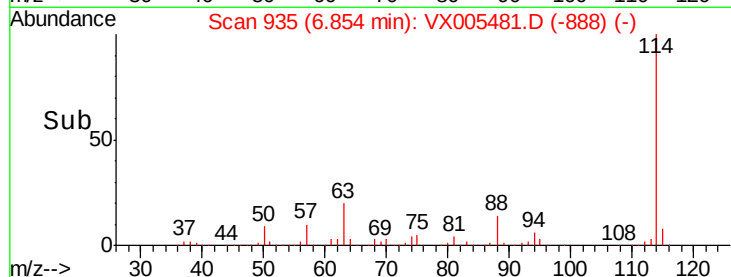
88 13.8 0.0 30.4



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: 52.484 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

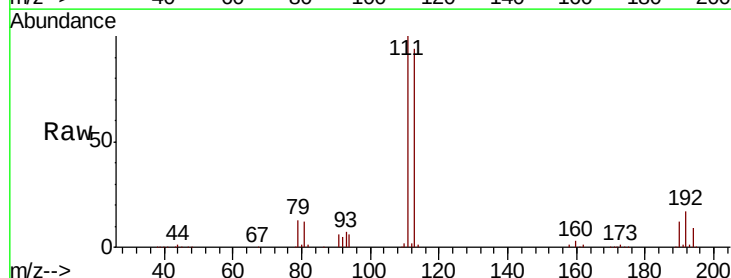
Tgt Ion:113 Resp: 118627

Ion Ratio Lower Upper

113 100

111 107.0 82.4 123.6

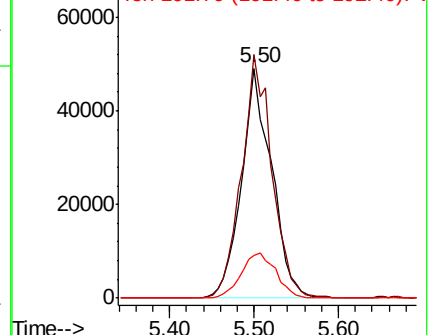
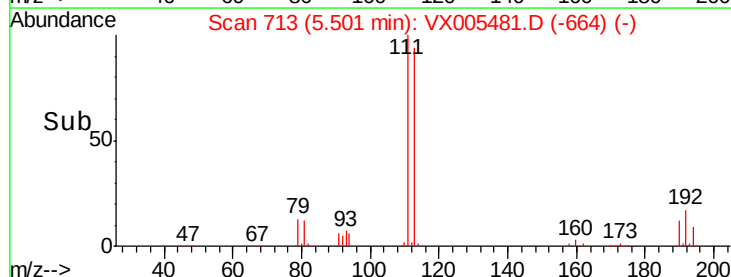
192 22.7 19.4 29.2

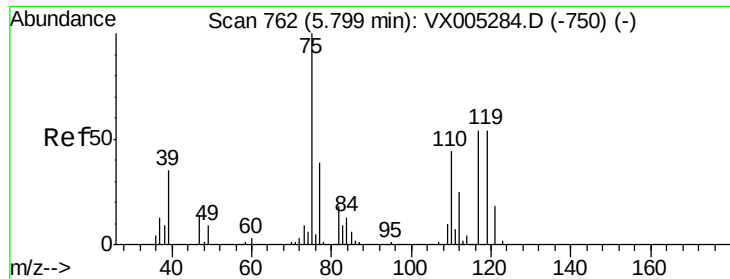


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

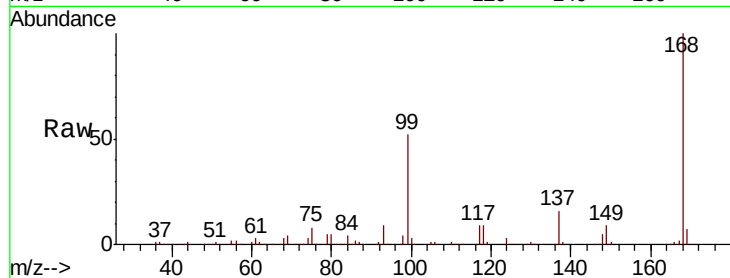




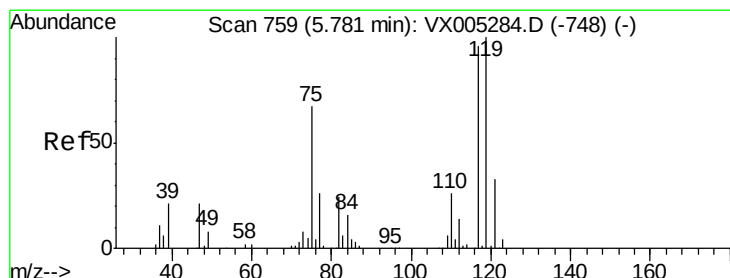
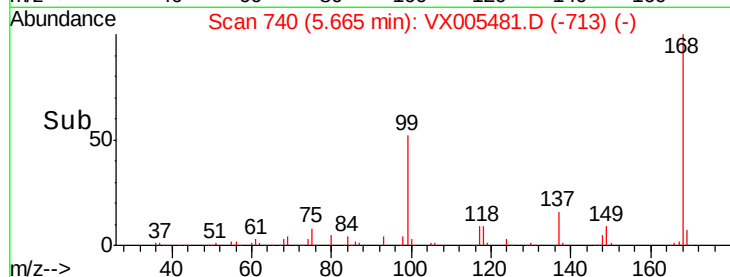
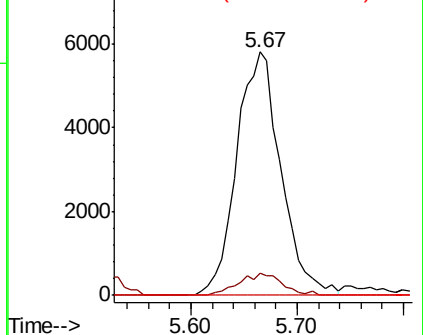
#36
 1,1-Dichloropropene
 Concen: 5.119 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-B

Tot Ion	75	Resp	16919
Ion Ratio	100	Lower	Upper
110	9.0	18.0	54.0#
77	0.0	24.6	36.8#

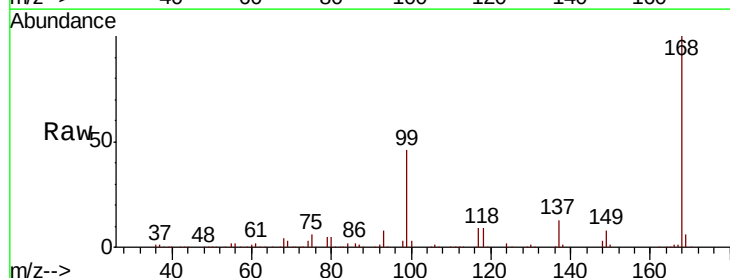


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

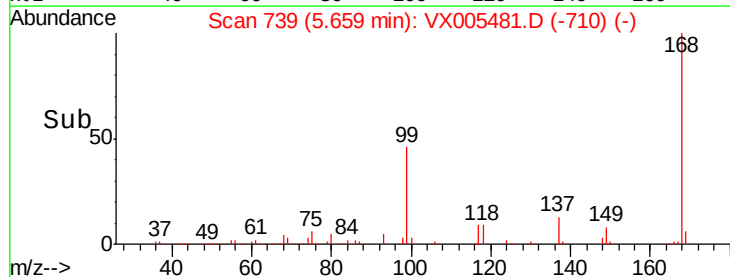
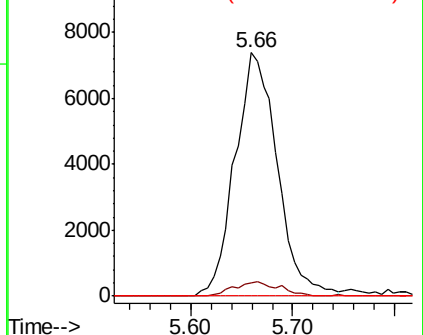


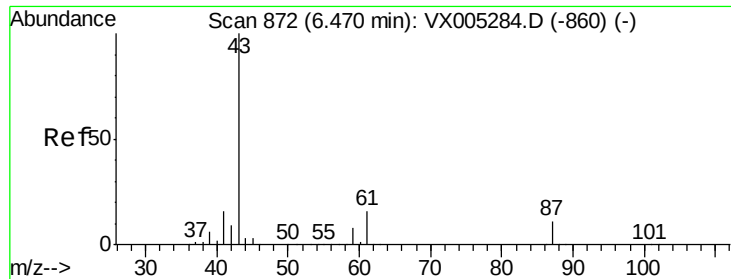
#38
 Carbon Tetrachloride
 Concen: 6.403 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Tgt Ion	117	Resp	21263
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	5.2	78.8	118.2#
121	0.0	24.9	37.3#



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



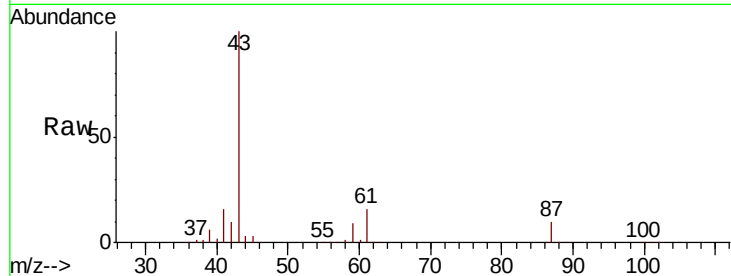


#43

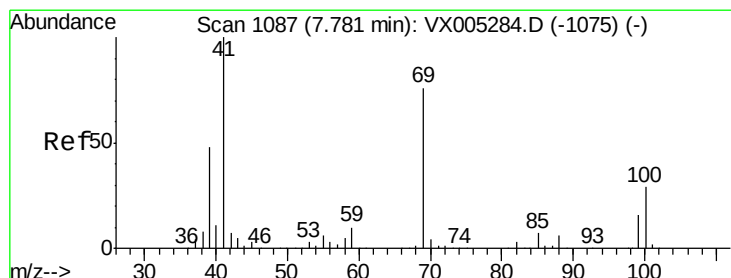
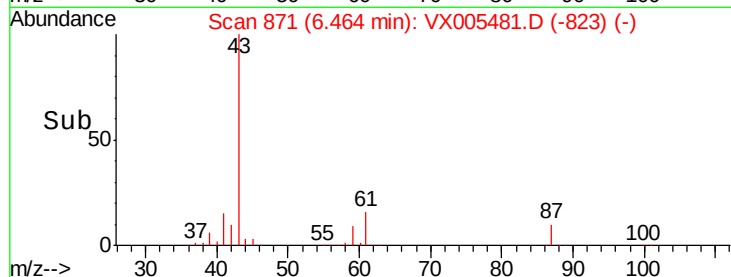
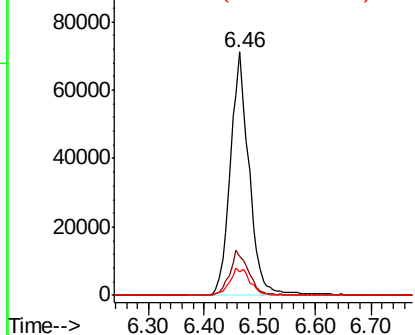
Isopropyl Acetate
 Concen: 29.263 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-B

Tot Ion	43	Resp	165684
Ion Ratio	Lower	Upper	
43	100		
61	18.4	17.0	25.4
87	12.1	11.4	17.2



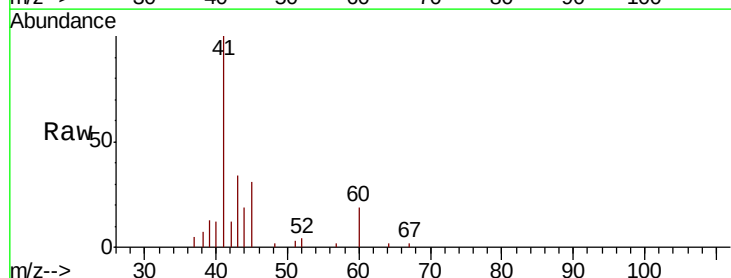
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



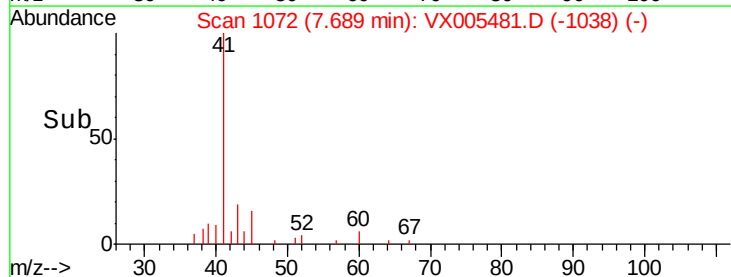
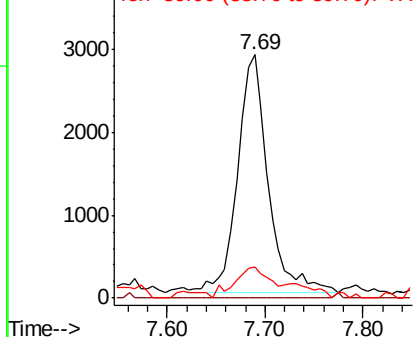
#48

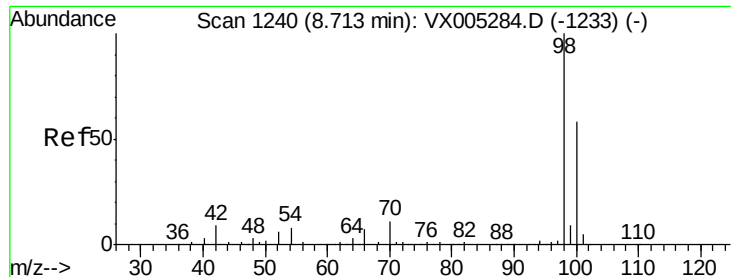
Methyl methacrylate
 Concen: 2.116 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Tgt Ion	41	Resp	6214
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	14.7	42.7	64.1#



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: 51.523 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

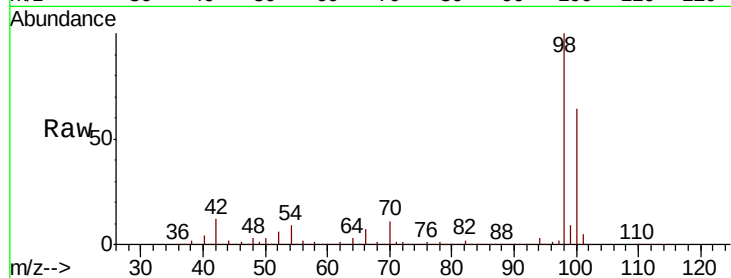
TP-B

Tot Ion: 98 Resp: 399800

Ion Ratio Lower Upper

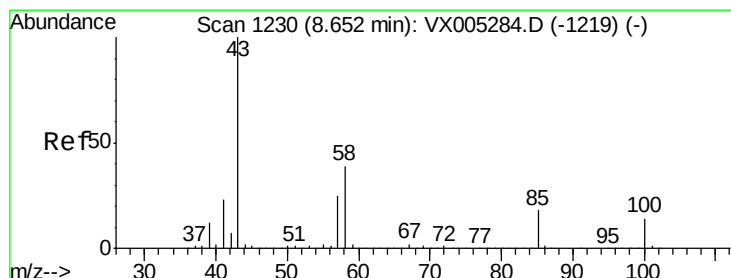
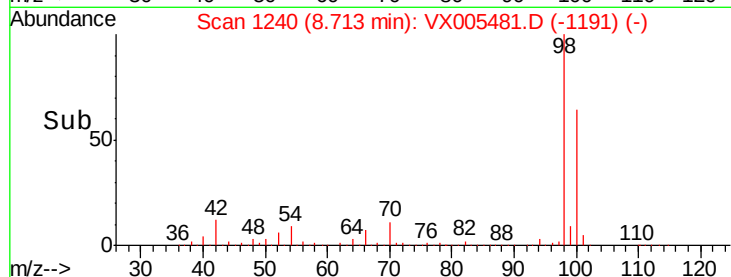
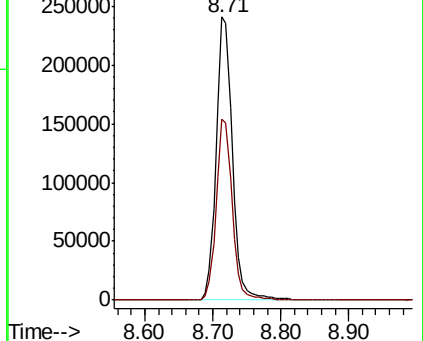
98 100

100 63.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.734 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005481.D

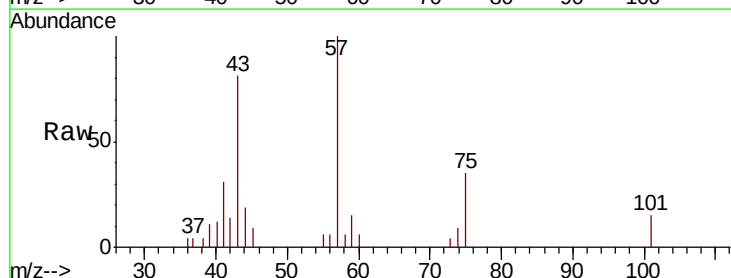
Acq: 22 Oct 2018 20:07

Tgt Ion: 43 Resp: 2879

Ion Ratio Lower Upper

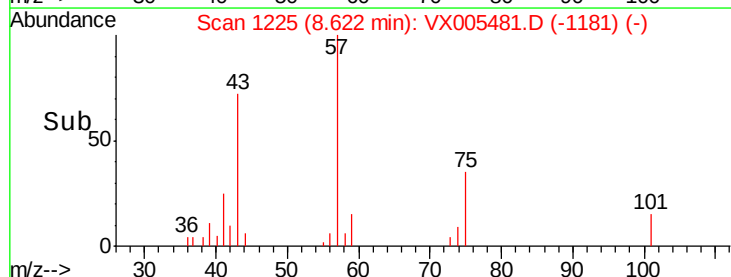
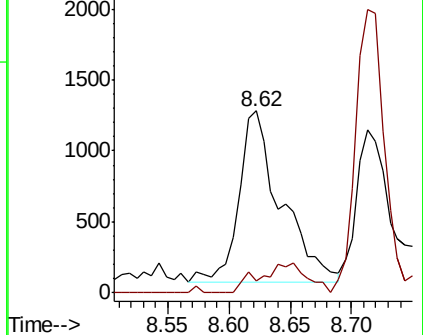
43 100

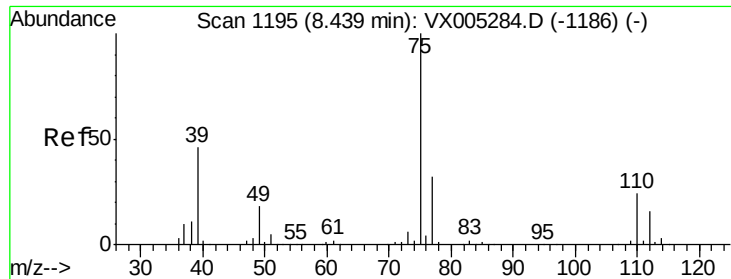
58 4.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



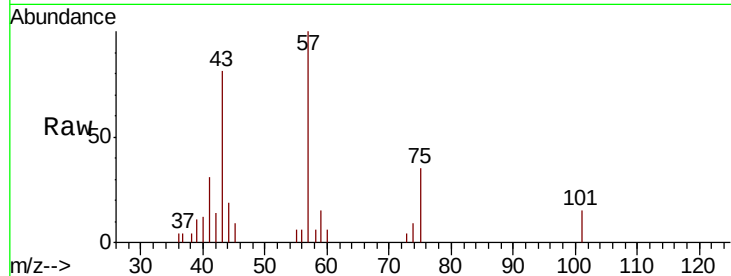


#54

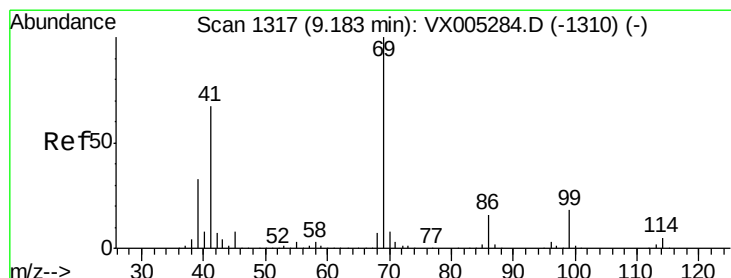
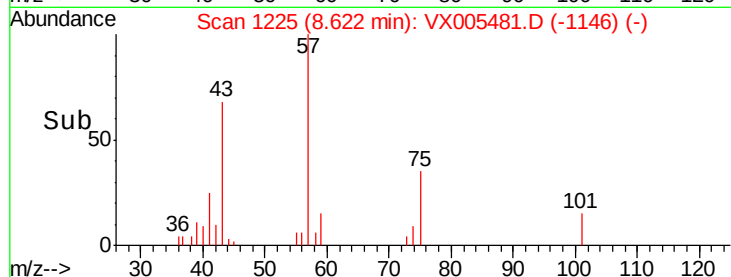
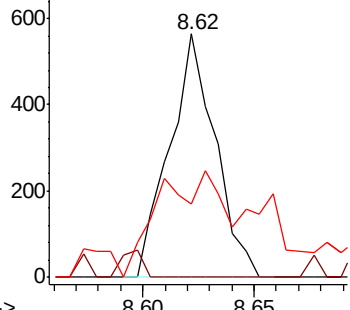
cis-1,3-Dichloropropene
 Concen: 0.232 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-B

Tot Ion: 75 Resp: 806
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 30.3 36.4 54.6#



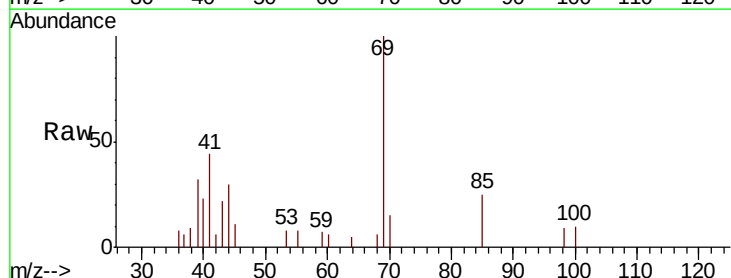
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



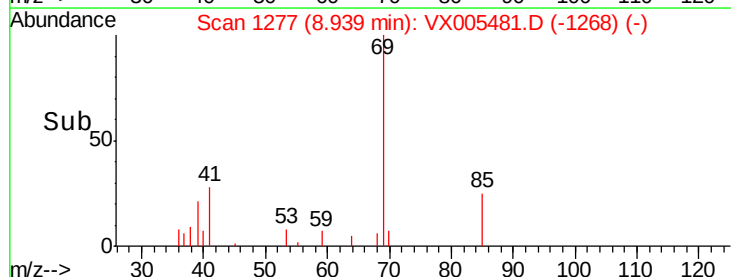
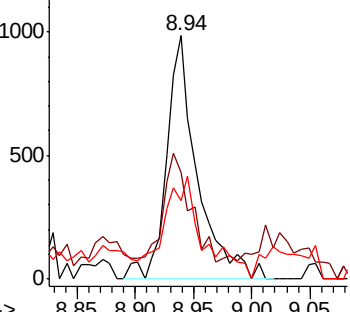
#56

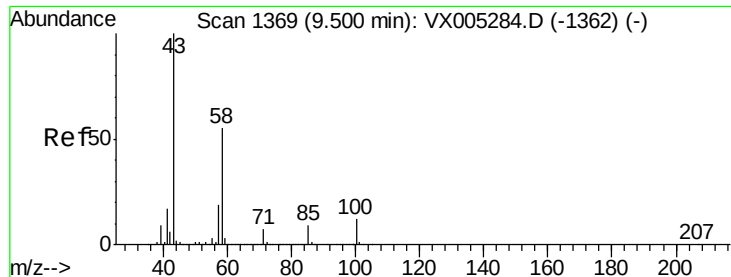
Ethyl methacrylate
 Concen: 0.538 ug/l
 RT: 8.94 min Scan# 1277
 Delta R.T. -0.24 min
 Lab File: VX005481.D
 Acq: 22 Oct 2018 20:07

Tgt Ion: 69 Resp: 1801
 Ion Ratio Lower Upper
 69 100
 41 35.5 51.0 76.4#
 39 53.8 26.1 39.1#



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

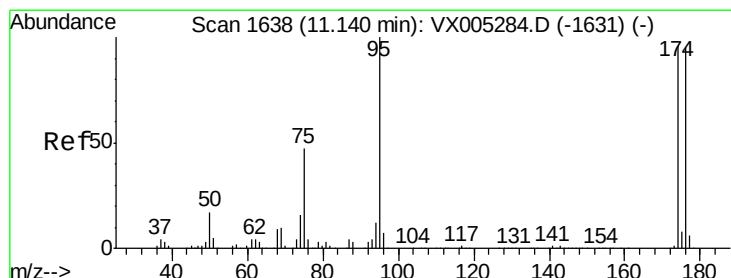
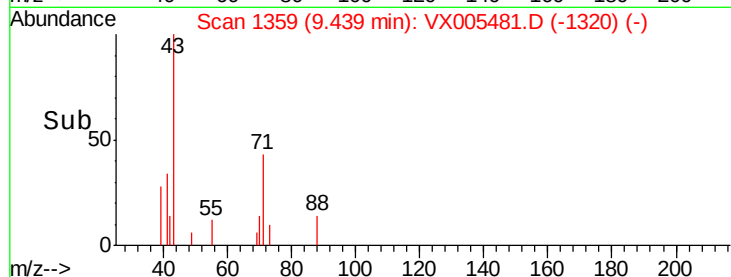
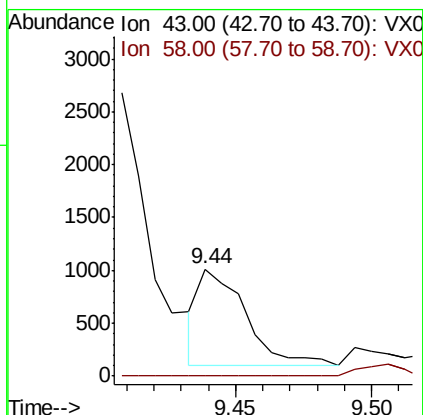
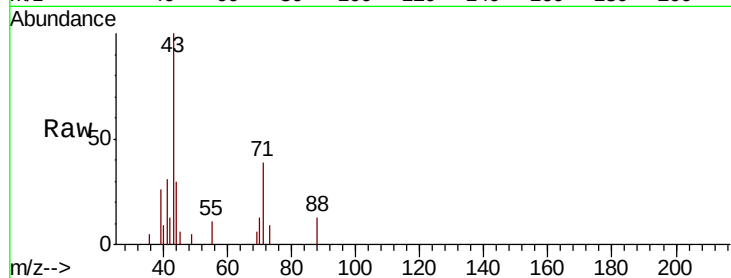




#59
2-Hexanone
Concen: 0.347 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.06 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

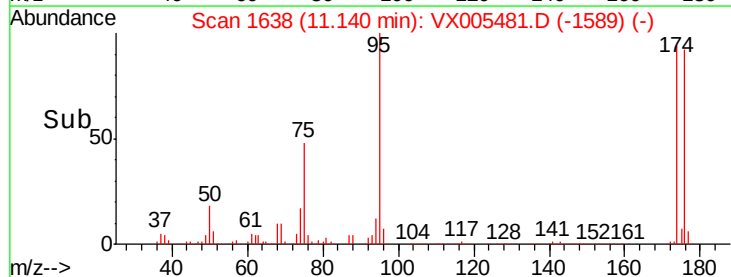
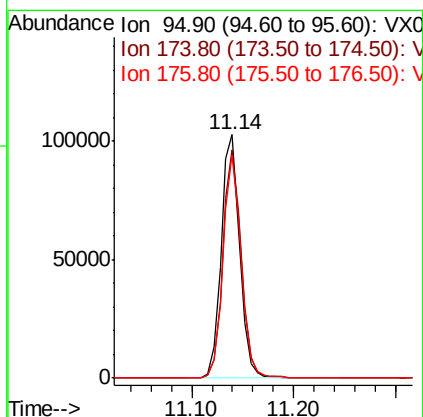
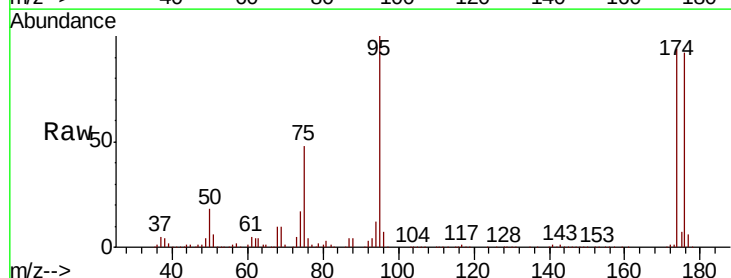
Instrument :
MSVOA_X
ClientSampled :
TP-B

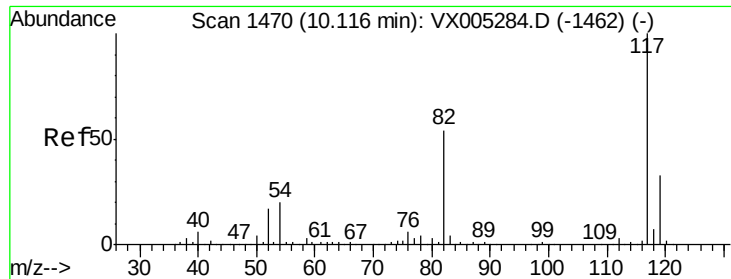
Tot Ion: 43 Resp: 1093
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 44.784 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

Tgt Ion: 95 Resp: 130545
Ion Ratio Lower Upper
95 100
174 92.6 0.0 185.2
176 88.9 0.0 178.6

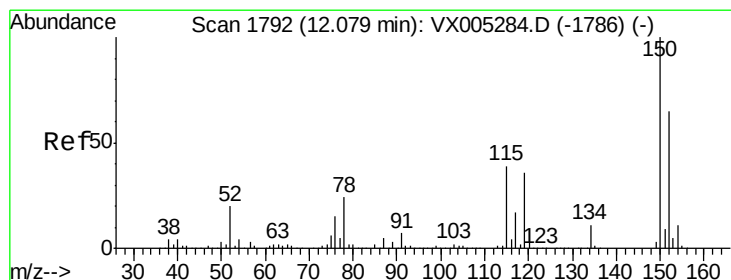
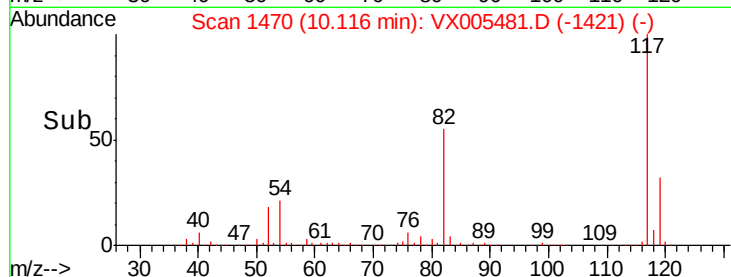
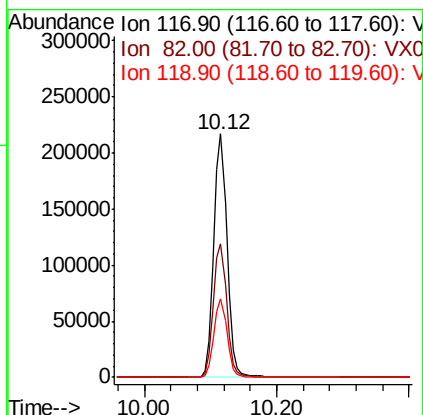
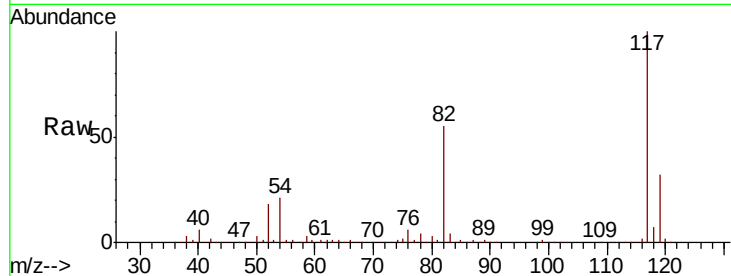




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

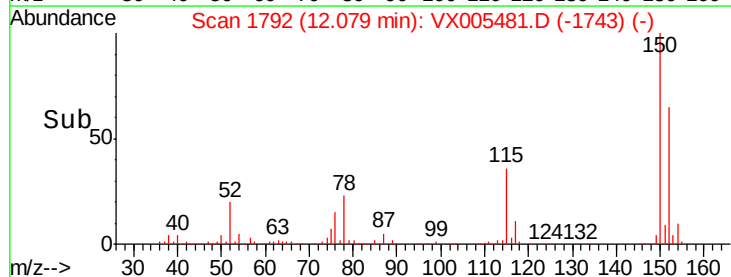
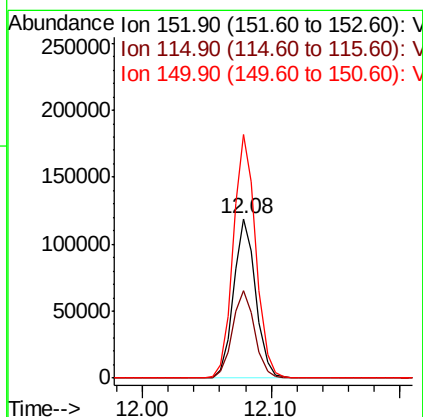
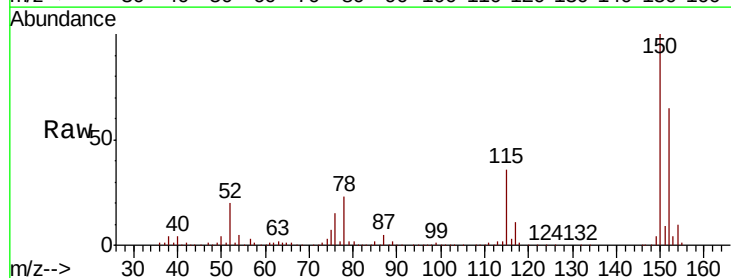
Instrument :
MSVOA_X
ClientSampled :
TP-B

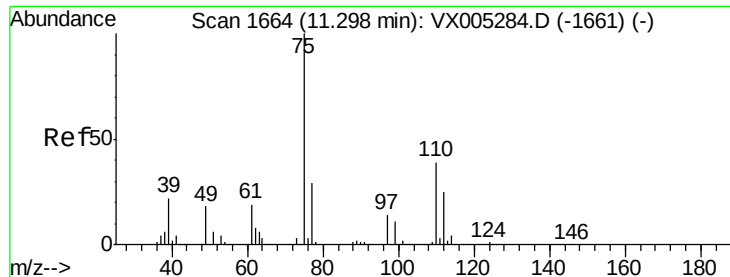
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	47.8	71.6
119	32.2	29.3	43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005481.D
Acq: 22 Oct 2018 20:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	39.0	117.0
150	156.2	0.0	351.0





#76

1,2,3-Trichloropropane

Concen: 23.440 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

Instrument :

MSVOA_X

ClientSampled :

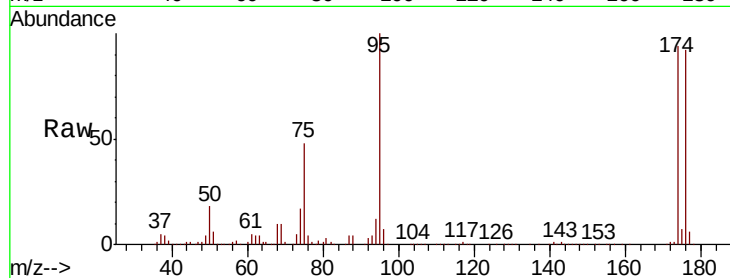
TP-B

Tot Ion: 75 Resp: 64648

Ion Ratio Lower Upper

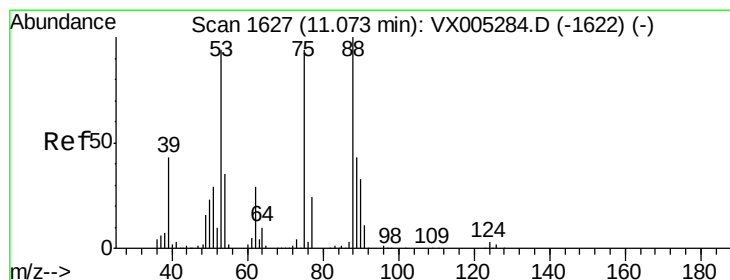
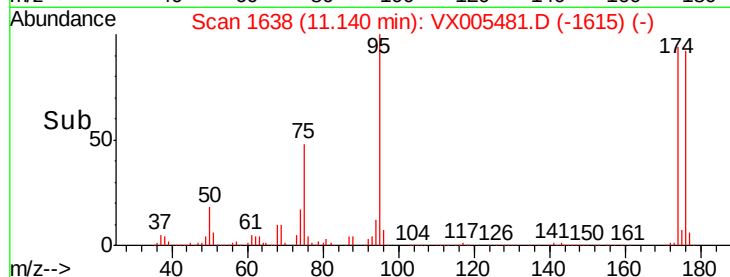
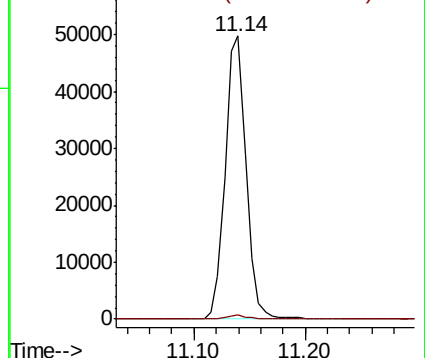
75 100

77 1.5 20.2 60.6#



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: 71.222 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005481.D

Acq: 22 Oct 2018 20:07

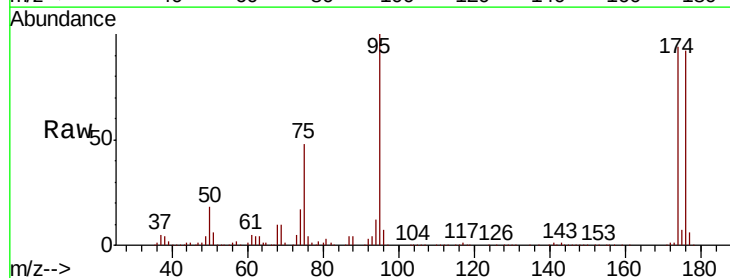
Tgt Ion: 75 Resp: 64648

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

