

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091218\
 Data File : VX004485.D
 Acq On : 12 Sep 2018 10:59
 Operator : JC/MD
 Sample : VX0912WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912WBL01

Quant Time: Sep 13 00:58:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	184333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	289064	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	275577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146364	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	131576	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	
35) Dibromofluoromethane	5.50	113	116150	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	
50) Toluene-d8	8.71	98	421633	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	141590	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	

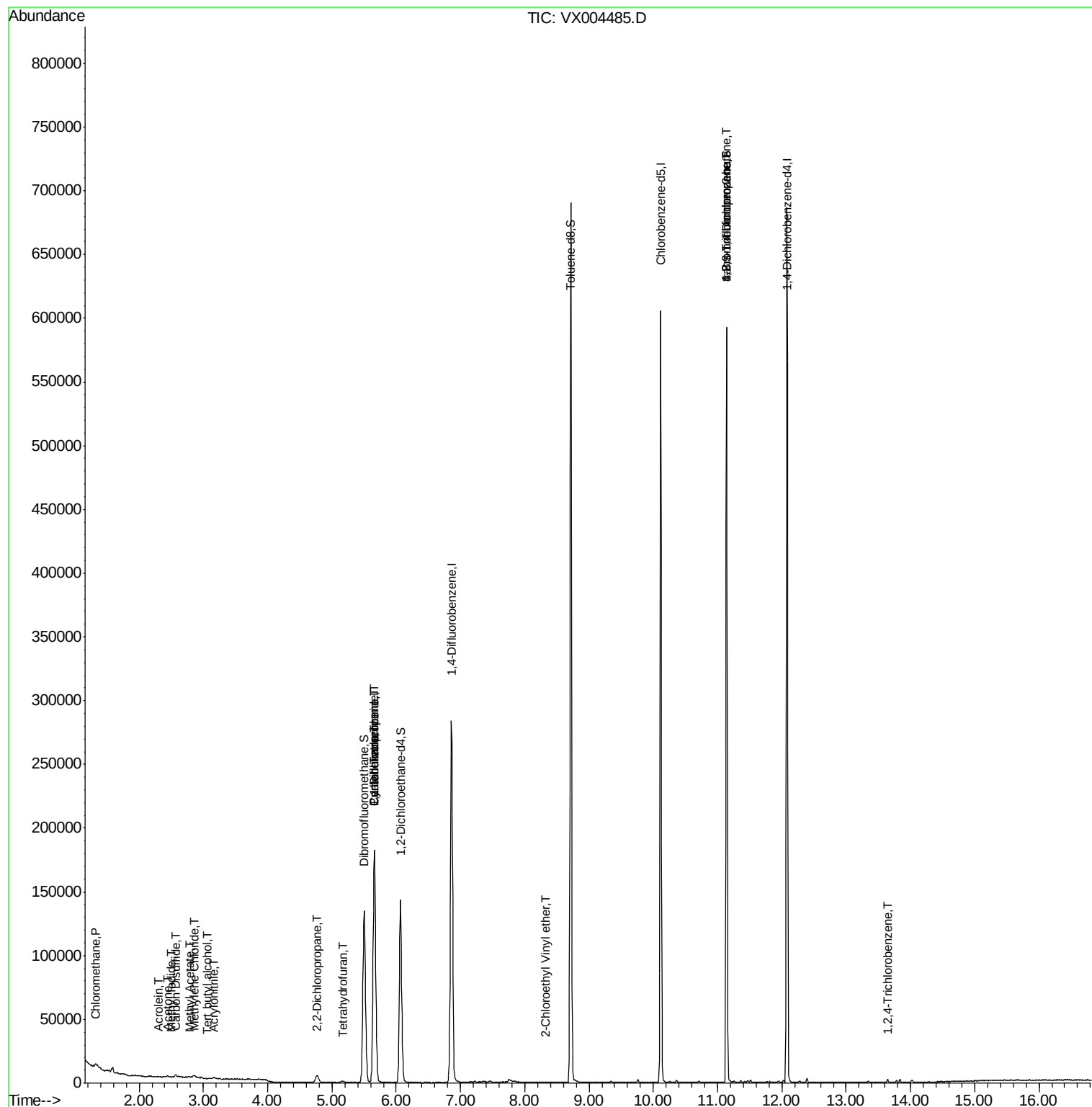
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	699	0.29	ug/l	# 73
5) Bromomethane	1.65	94	949	Below	Cal	81
10) Methyl Iodide	2.51	142	285	4.36	ug/l	# 91
11) Tert butyl alcohol	3.07	59	239	0.42	ug/l	# 72
13) Acrolein	2.29	56	332	1.48	ug/l	# 74
15) Acrylonitrile	3.16	53	541	0.40	ug/l	# 53
16) Acetone	2.44	43	995	0.86	ug/l	90
17) Carbon Disulfide	2.57	76	2269	0.41	ug/l	100
18) Methyl Acetate	2.78	43	880	0.27	ug/l	93
20) Methylene Chloride	2.86	84	615	0.26	ug/l	# 74
26) 2,2-Dichloropropane	4.76	77	592	0.21	ug/l	# 52
29) Tetrahydrofuran	5.17	42	865	0.78	ug/l	94
31) Cyclohexane	5.66	56	3244	0.94	ug/l	# 10
36) 1,1-Dichloropropene	5.66	75	12678	3.61	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	16748	4.89	ug/l	# 16
58) 2-Chloroethyl Vinyl ether	8.32	63	107	7.33	ug/l	# 45
76) 1,2,3-Trichloropropane	11.14	75	67713	22.99	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	67713	73.30	ug/l	# 10
93) 1,2,4-Trichlorobenzene	13.65	180	895	0.25	ug/l	94

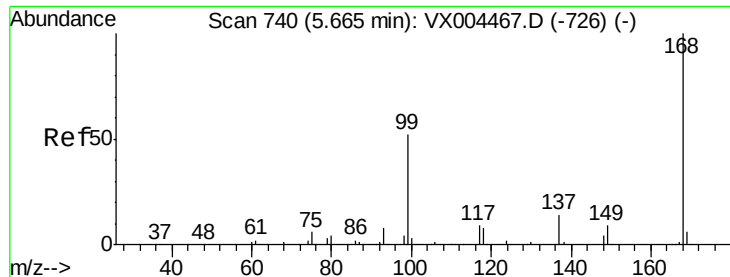
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

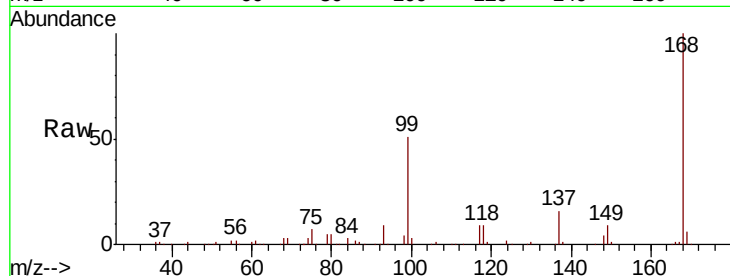
VX0912WBL01

Tot Ion:168 Resp: 184333

Ion Ratio Lower Upper

168 100

99 50.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

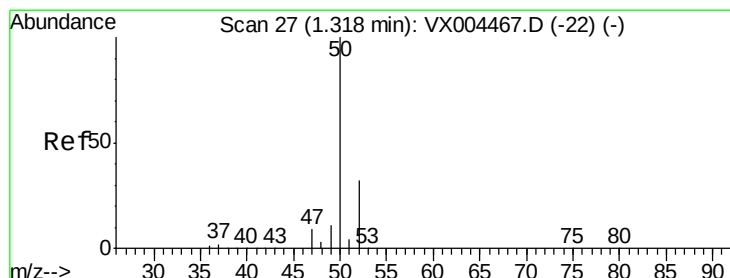
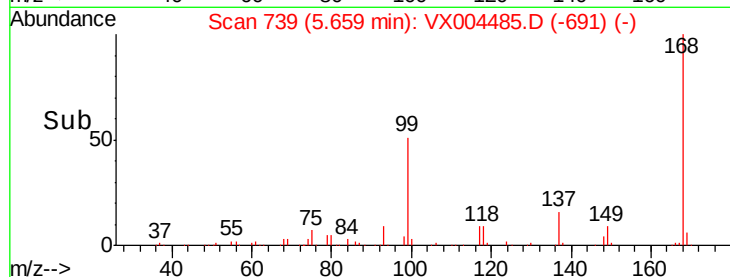
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.29 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004485.D

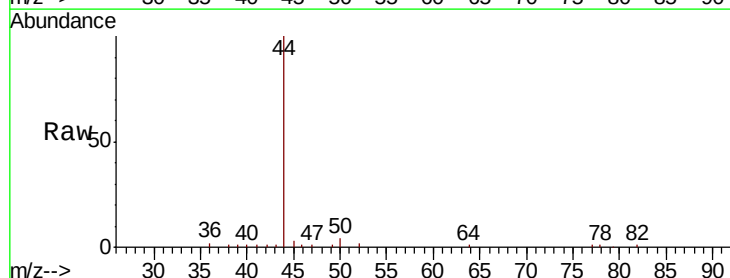
Acq: 12 Sep 2018 10:59

Tgt Ion: 50 Resp: 699

Ion Ratio Lower Upper

50 100

52 47.8 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

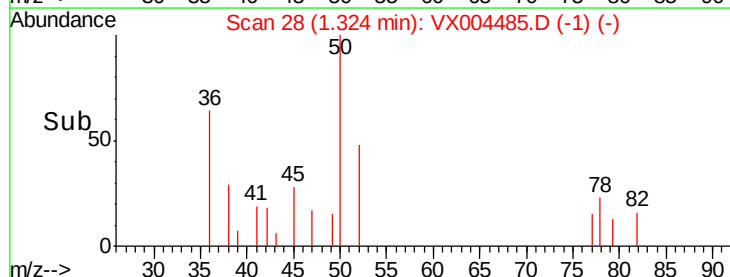
200

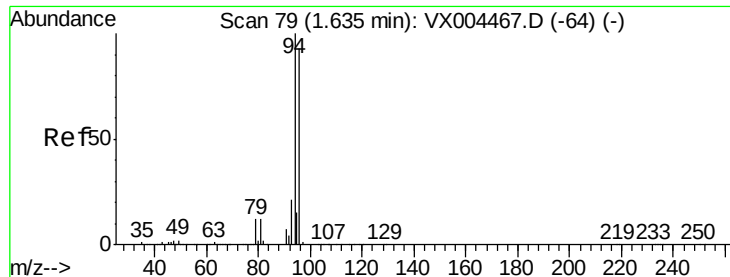
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

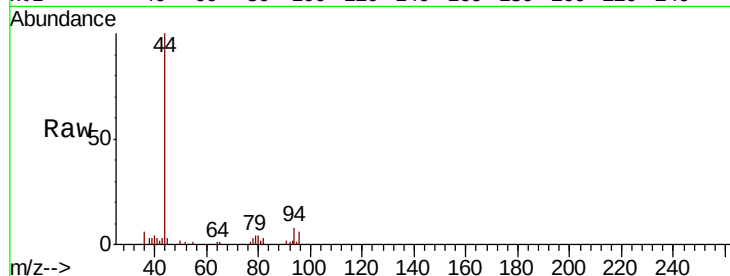
VX0912WBL01

Tot Ion: 94 Resp: 949

Ion Ratio Lower Upper

94 100

96 74.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

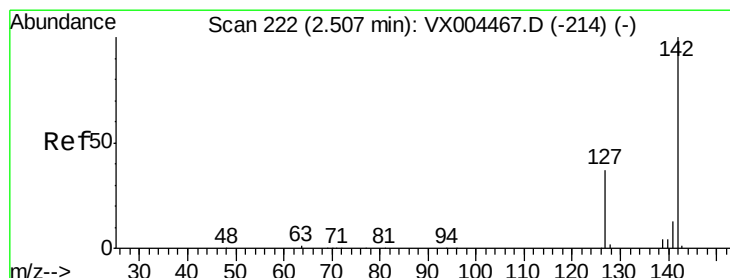
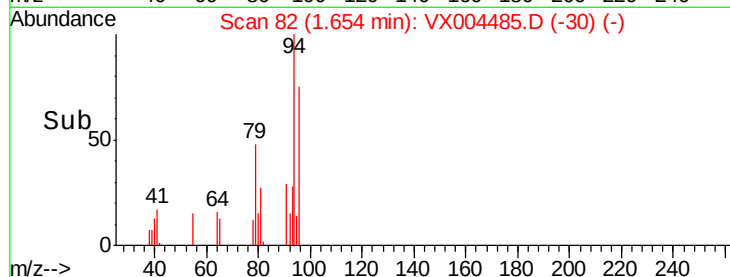
200

100

0

1.55 1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 4.36 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

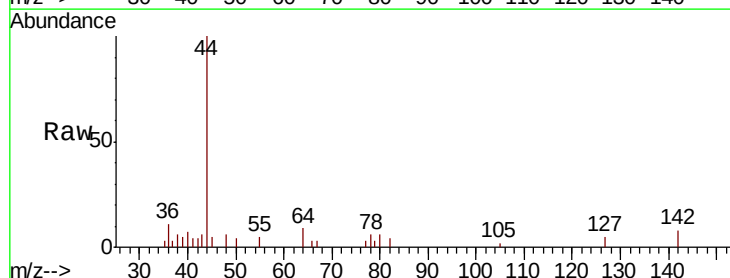
Tgt Ion: 142 Resp: 285

Ion Ratio Lower Upper

142 100

127 42.1 33.8 50.6

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

150

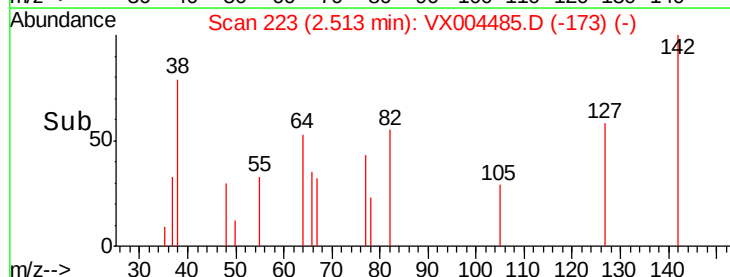
100

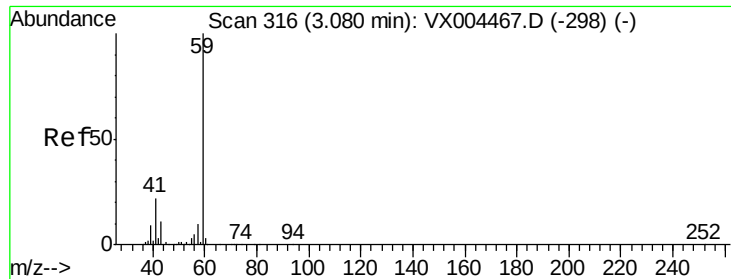
50

0

2.50 2.55

Time-->

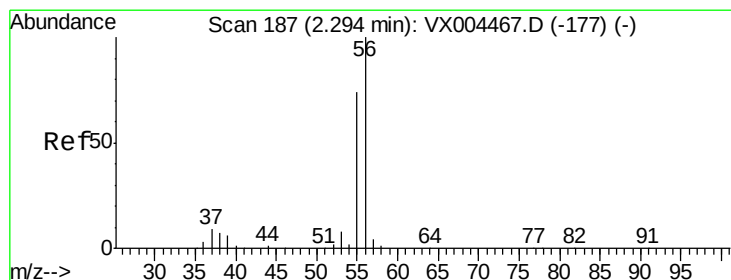
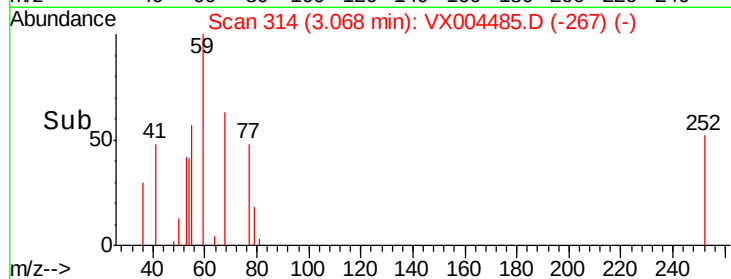
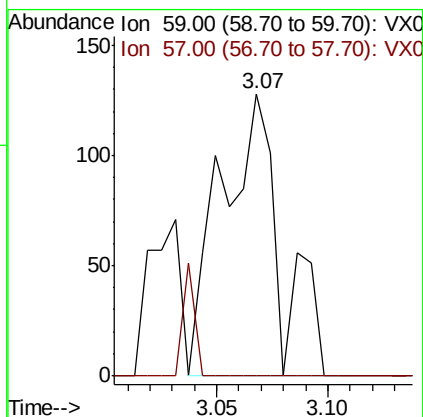
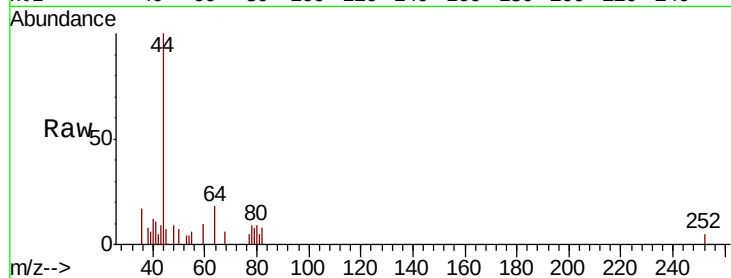




#11
Tert butyl alcohol
Concen: 0.42 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

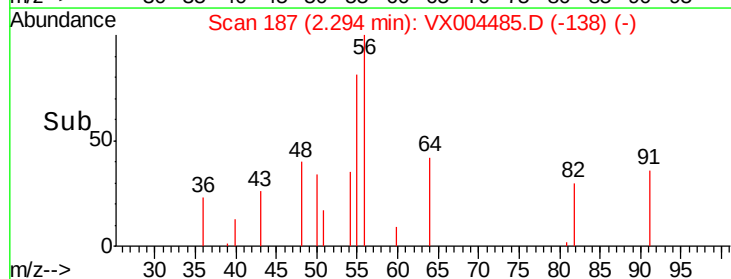
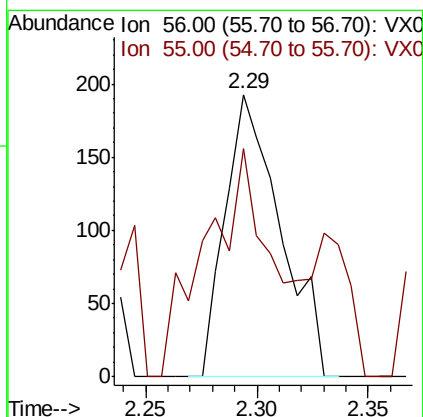
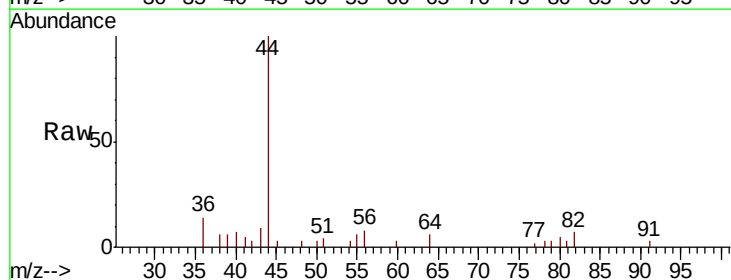
Instrument :
MSVOA_X
ClientSampled :
VX0912WBL01

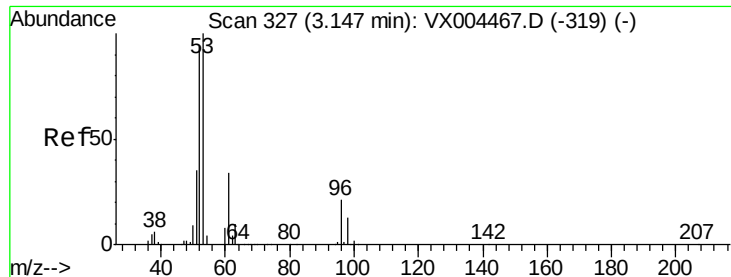
Tot Ion: 59 Resp: 239
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 1.48 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

Tgt Ion: 56 Resp: 332
Ion Ratio Lower Upper
56 100
55 89.5 54.7 82.1#





#15

Acrylonitrile

Concen: 0.40 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

VX0912WBL01

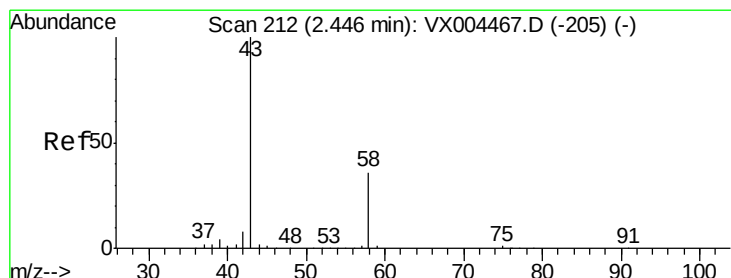
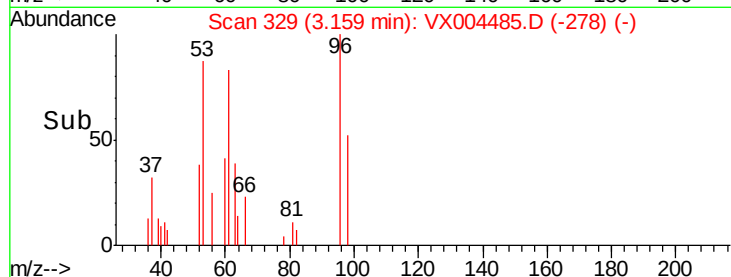
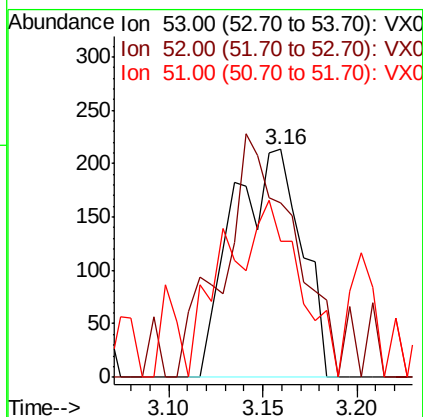
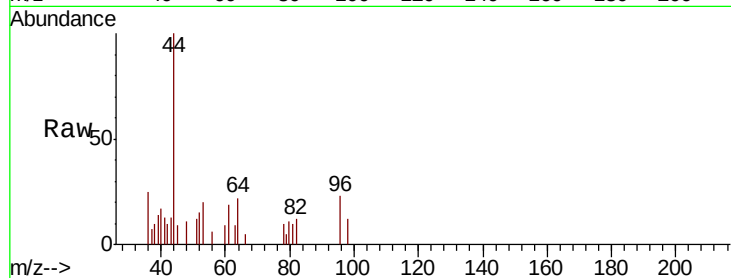
Tot Ion: 53 Resp: 541

Ion Ratio Lower Upper

53 100

52 108.5 65.2 97.8#

51 84.5 28.2 42.2#



#16

Acetone

Concen: 0.86 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004485.D

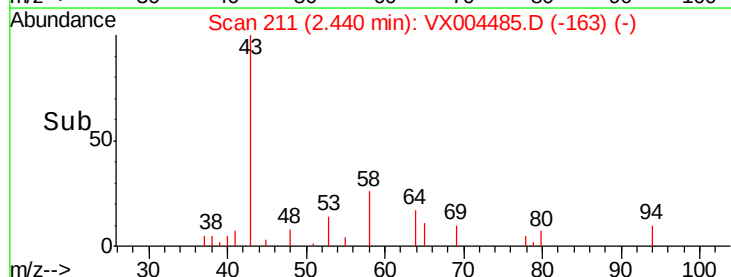
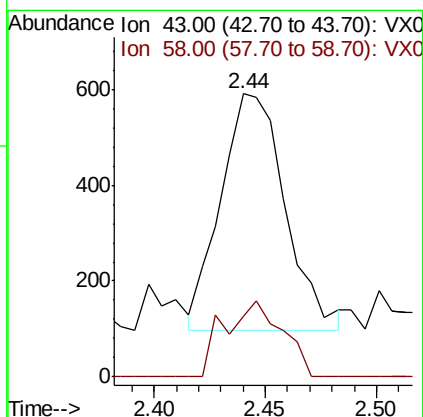
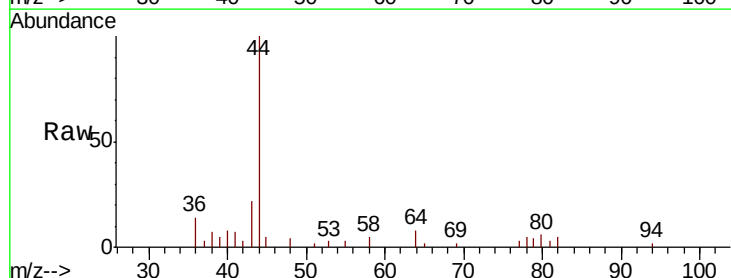
Acq: 12 Sep 2018 10:59

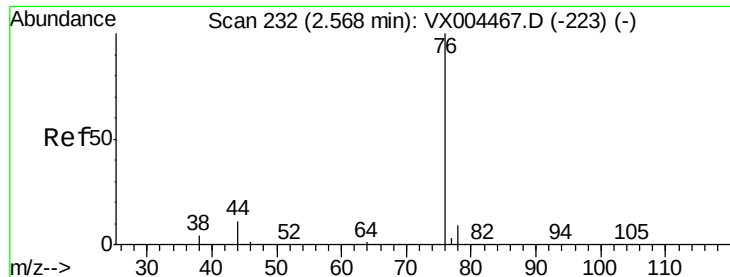
Tgt Ion: 43 Resp: 995

Ion Ratio Lower Upper

43 100

58 27.4 26.2 39.4





#17

Carbon Disulfide

Concen: 0.41 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

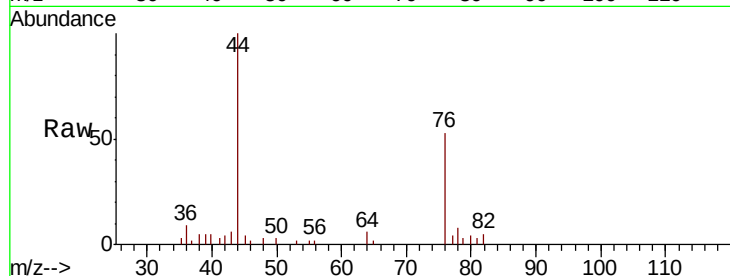
VX0912WBL01

Tot Ion: 76 Resp: 2269

Ion Ratio Lower Upper

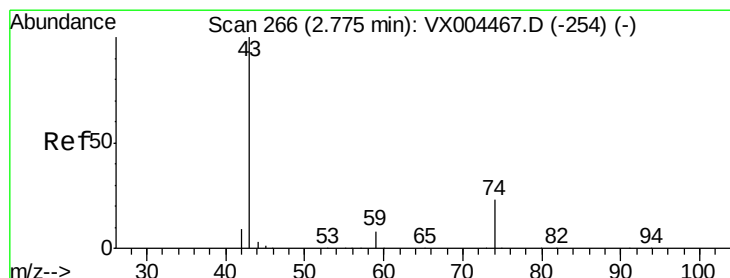
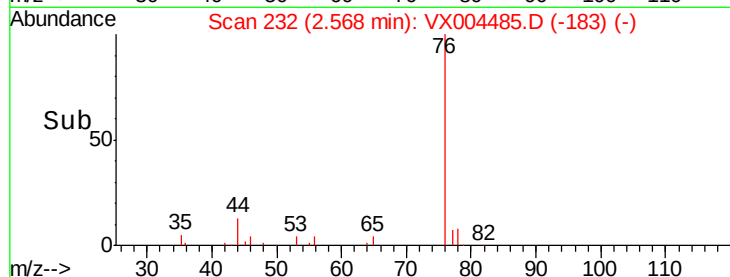
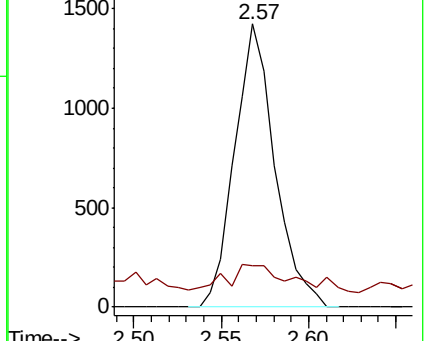
76 100

78 8.7 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.27 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX004485.D

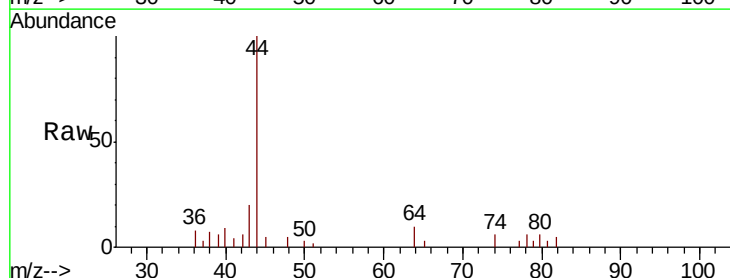
Acq: 12 Sep 2018 10:59

Tgt Ion: 43 Resp: 880

Ion Ratio Lower Upper

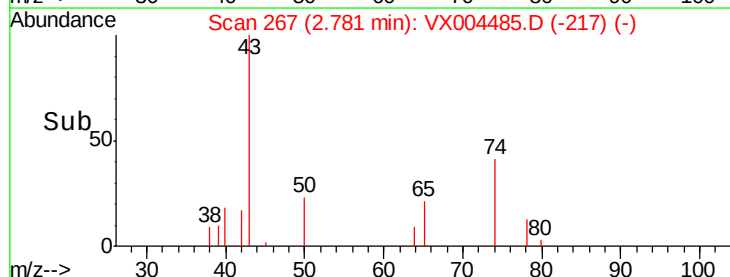
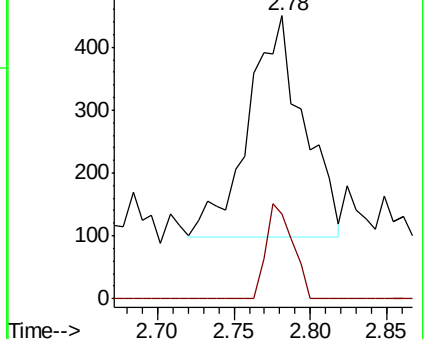
43 100

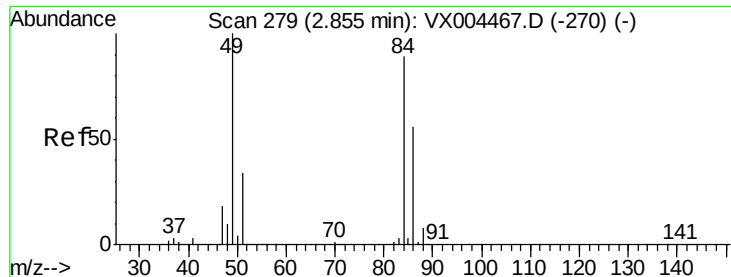
74 20.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

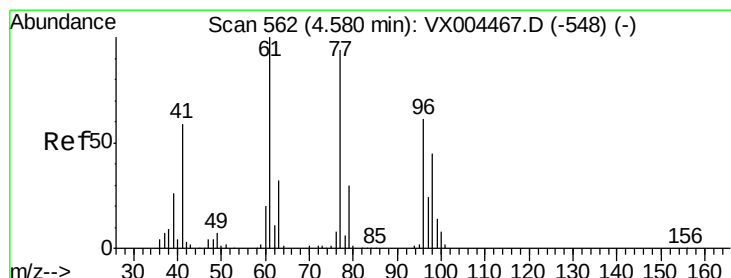
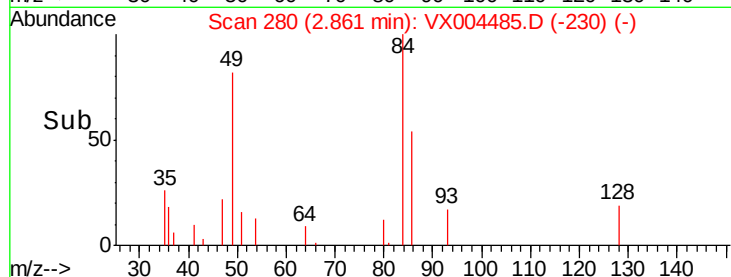
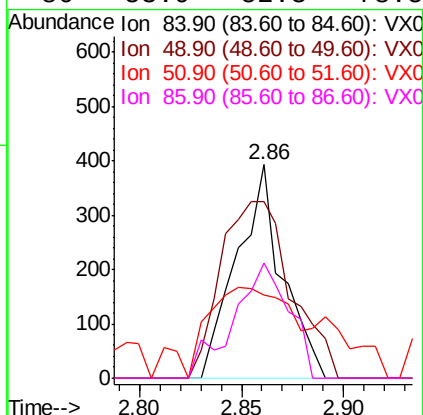
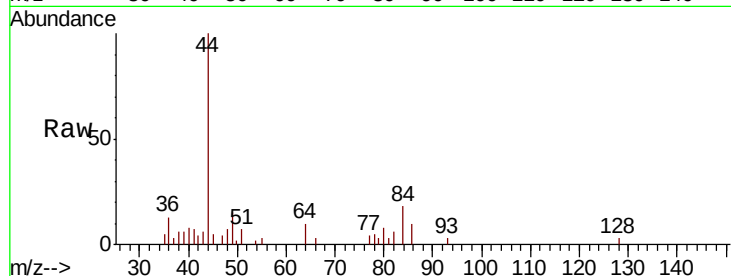




#20
Methylene Chloride
Concen: 0.26 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

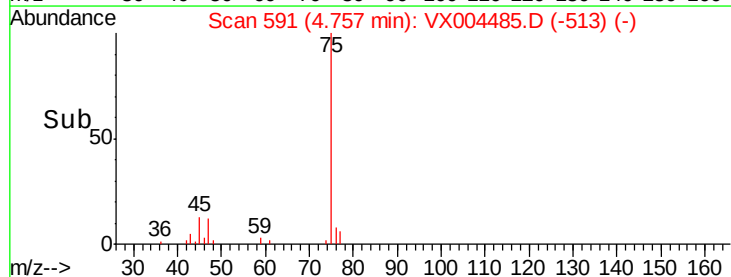
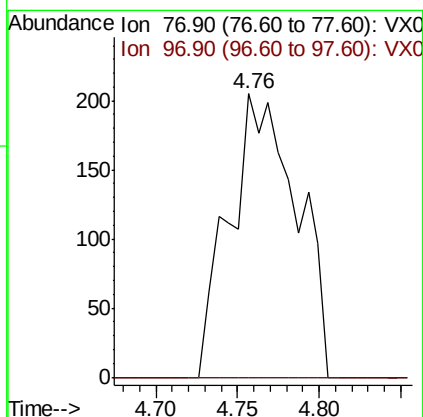
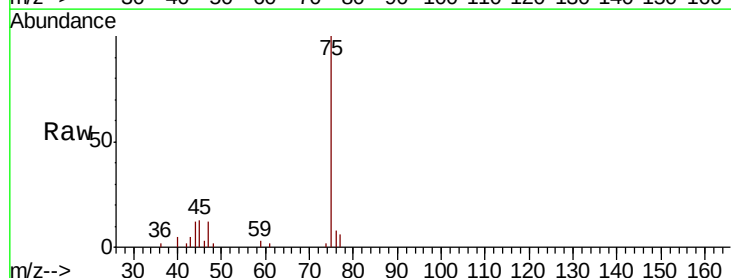
Instrument :
MSVOA_X
ClientSampleId :
VX0912WBL01

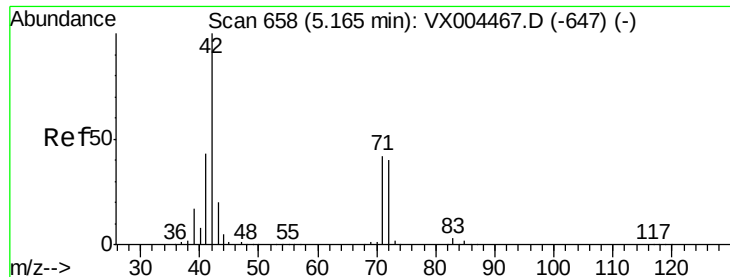
Tot Ion:	84	Resp:	615
Ion	Ratio	Lower	Upper
84	100		
49	82.4	101.2	151.8#
51	38.9	29.5	44.3
86	53.9	52.3	78.5



#26
2,2-Dichloropropane
Concen: 0.21 ug/l
RT: 4.76 min Scan# 591
Delta R.T. 0.18 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

Tgt Ion:	77	Resp:	592
Ion	Ratio	Lower	Upper
77	100		
97	0.0	11.7	35.0#





#29

Tetrahydrofuran

Concen: 0.78 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

VX0912WBL01

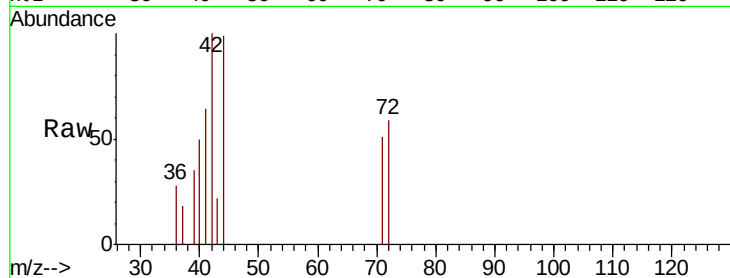
Tot Ion: 42 Resp: 865

Ion Ratio Lower Upper

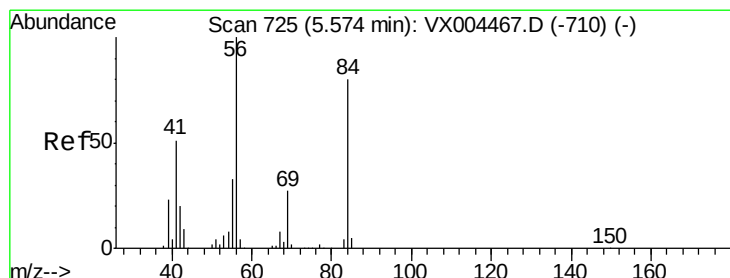
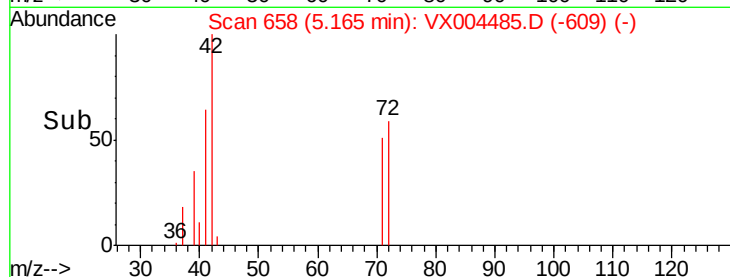
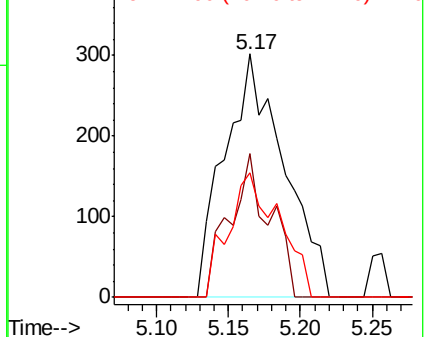
42 100

72 40.1 37.4 56.0

71 44.2 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

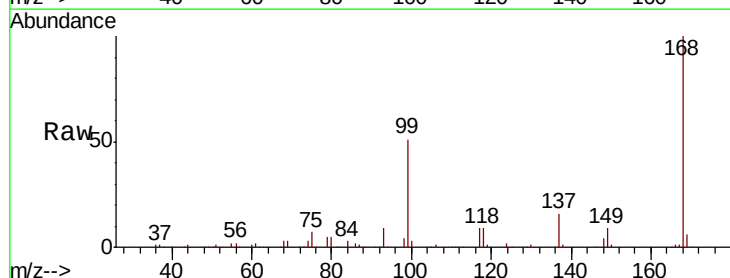
Tgt Ion: 56 Resp: 3244

Ion Ratio Lower Upper

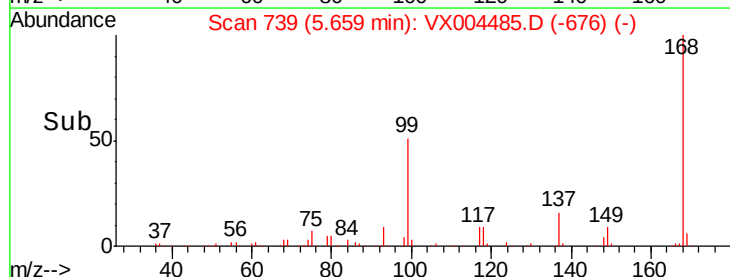
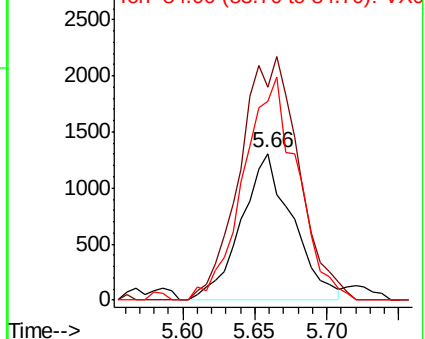
56 100

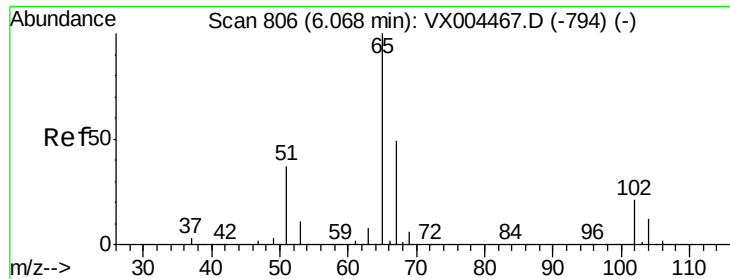
69 145.1 25.4 38.2#

84 135.7 71.4 107.2#



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

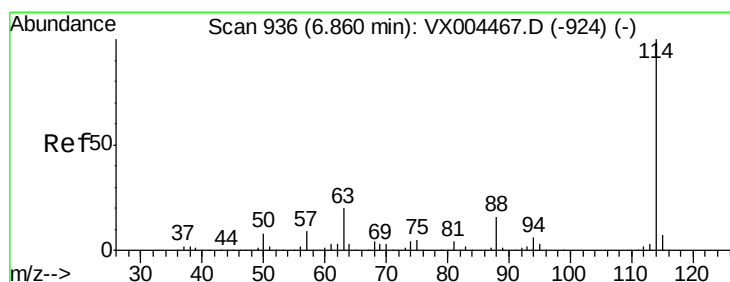
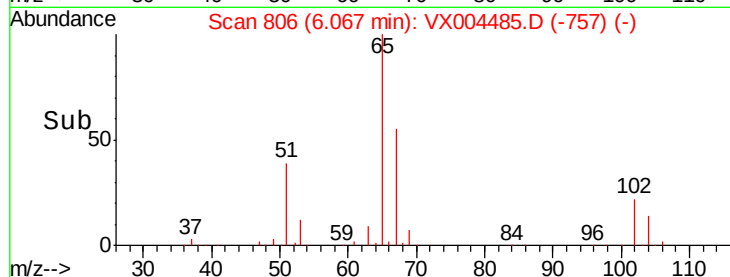
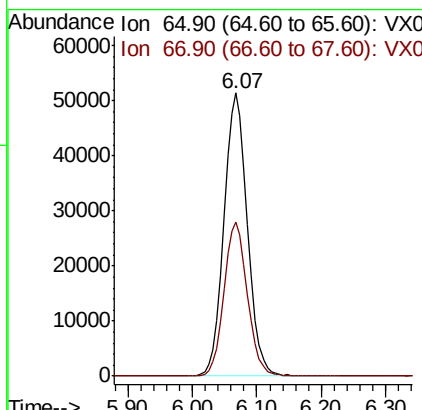
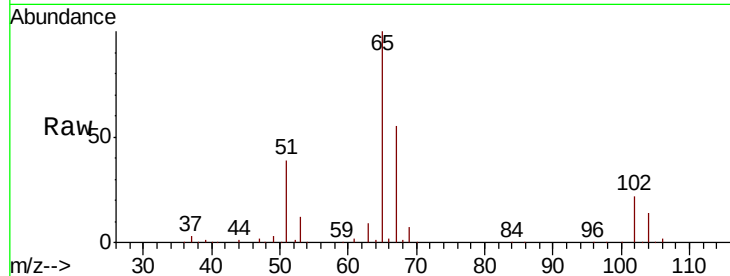




#33
 1,2-Dichloroethane-d4
 Concen: 55.36 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004485.D
 Acq: 12 Sep 2018 10:59

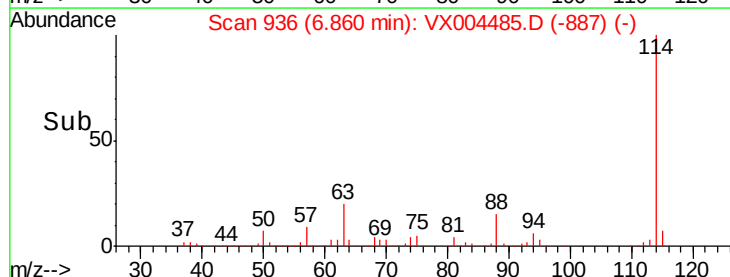
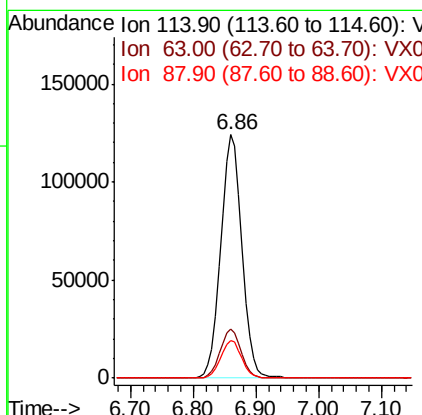
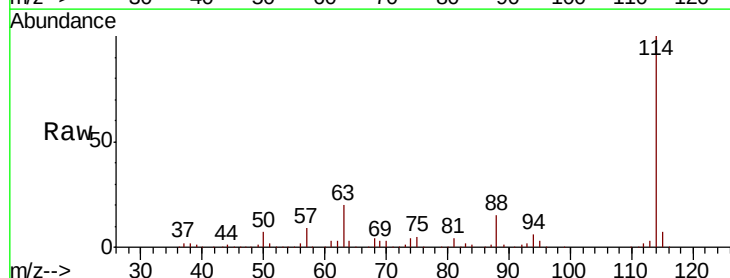
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912WBL01

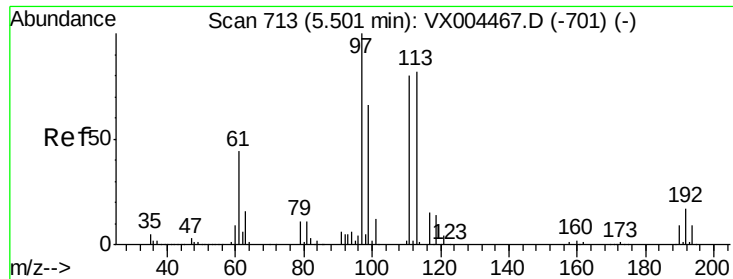
Tot Ion: 65 Resp: 131576
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004485.D
 Acq: 12 Sep 2018 10:59

Tgt Ion: 114 Resp: 289064
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 43.91 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

VX0912WBL01

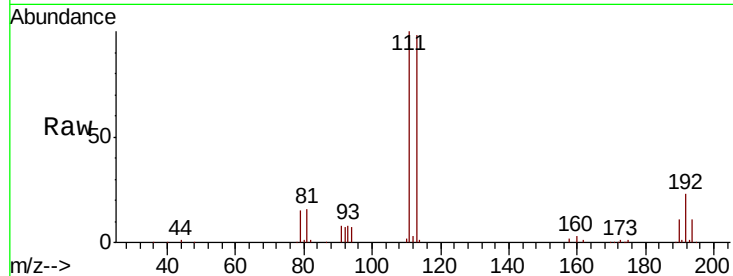
Tot Ion:113 Resp: 116150

Ion Ratio Lower Upper

113 100

111 101.1 82.4 123.6

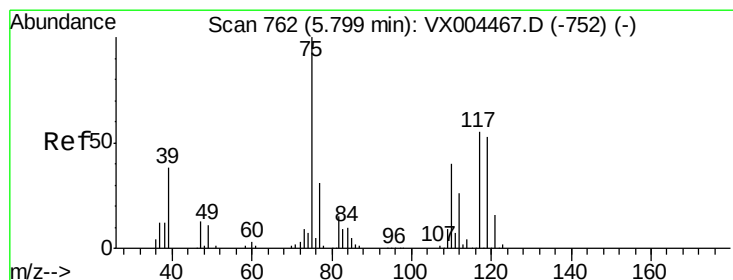
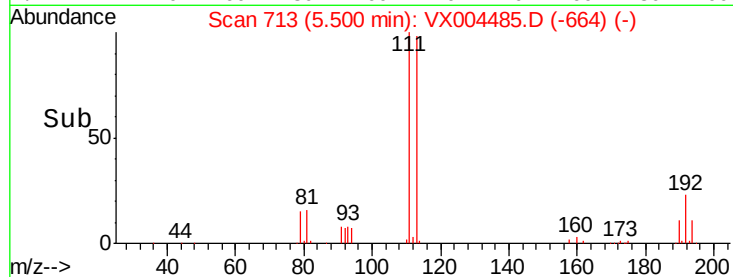
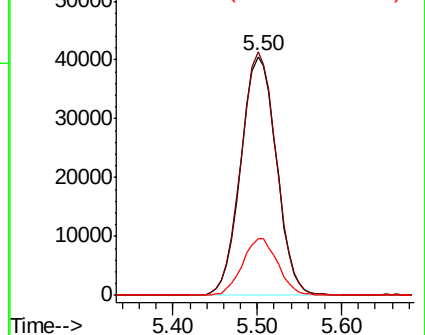
192 23.5 19.4 29.2



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: 3.61 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

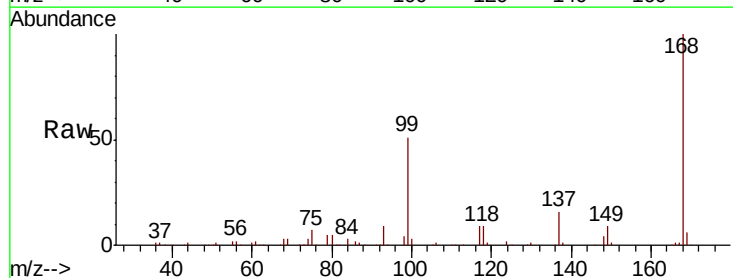
Tgt Ion: 75 Resp: 12678

Ion Ratio Lower Upper

75 100

110 8.3 18.0 54.0#

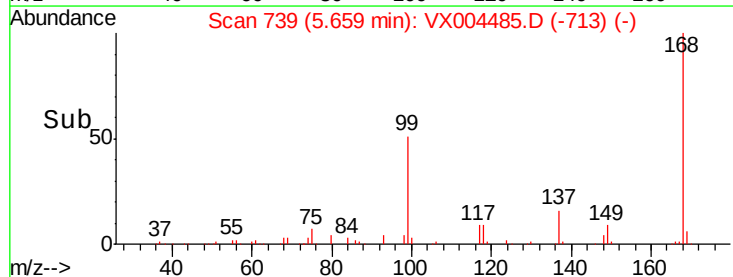
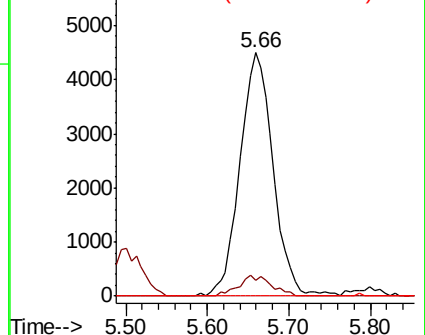
77 0.0 24.6 36.8#

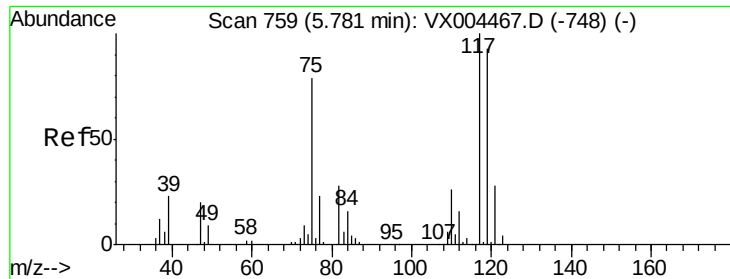


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

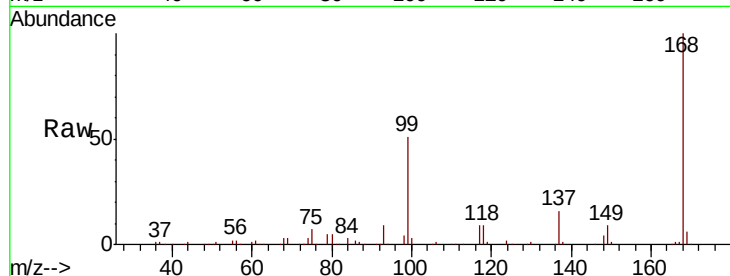




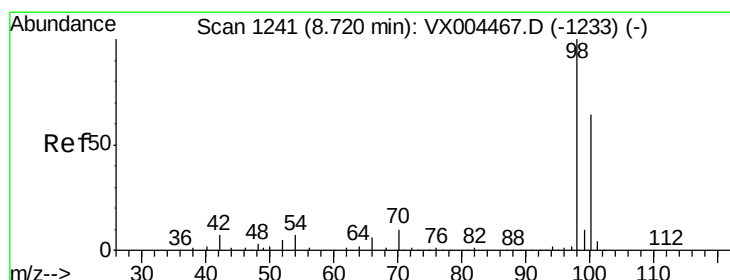
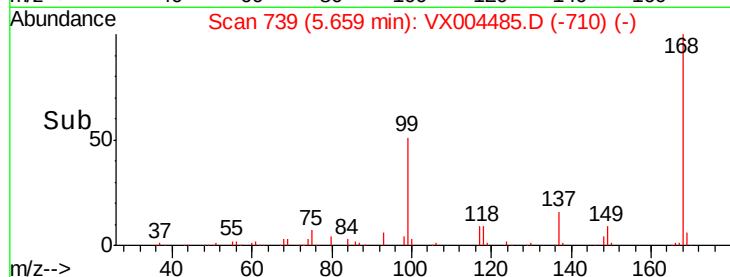
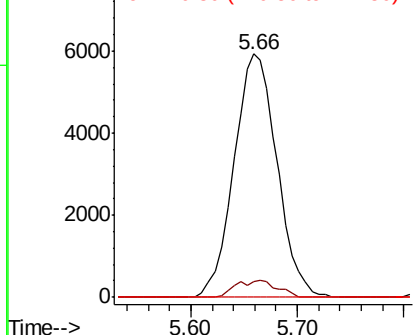
#38
Carbon Tetrachloride
Concen: 4.89 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

Instrument :
MSVOA_X
ClientSampleId :
VX0912WBL01

Tot Ion:117 Resp: 16748
Ion Ratio Lower Upper
117 100
119 6.5 78.8 118.2#
121 0.0 24.9 37.3#

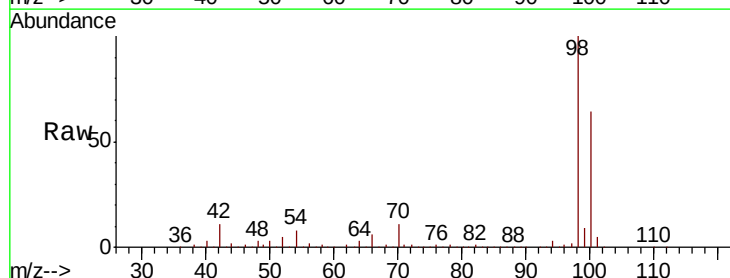


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

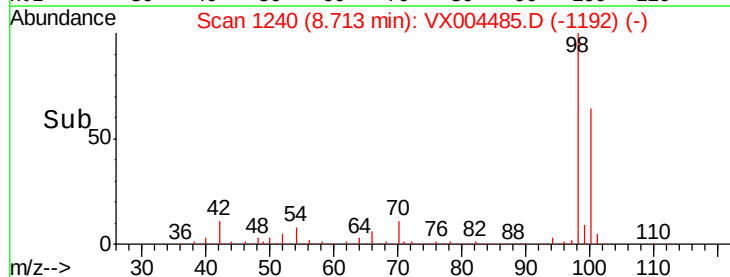
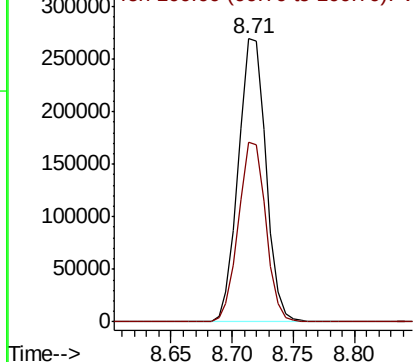


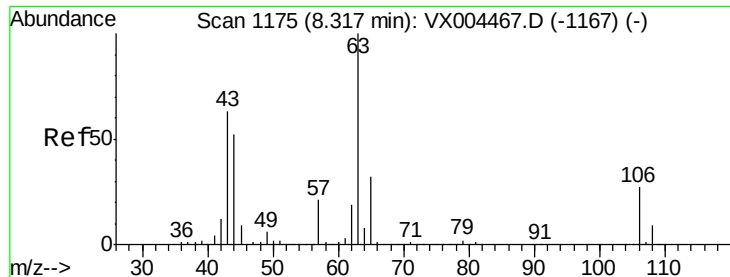
#50
Toluene-d8
Concen: 47.53 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

Tgt Ion: 98 Resp: 421633
Ion Ratio Lower Upper
98 100
100 63.1 52.9 79.3



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

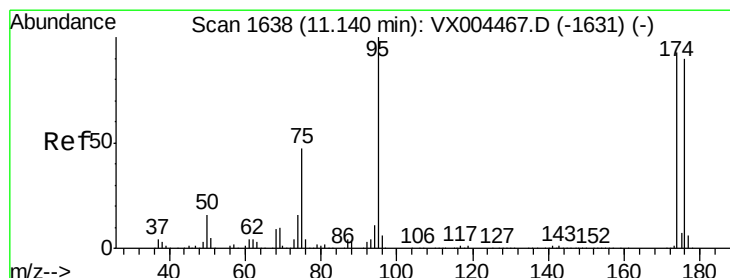
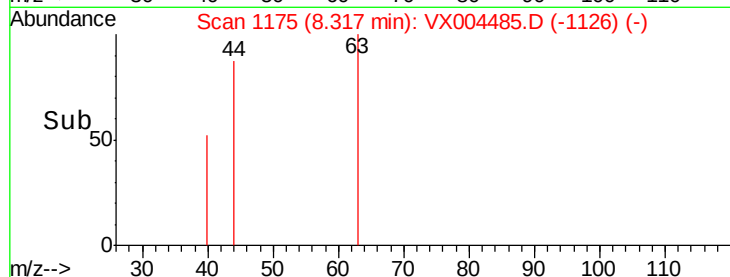
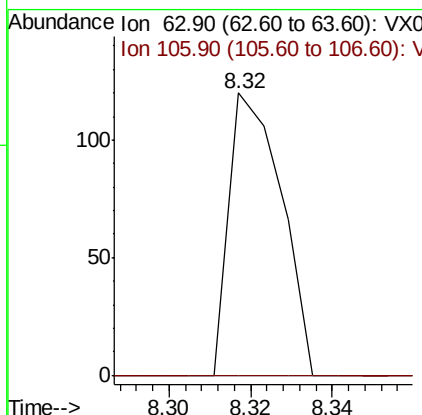
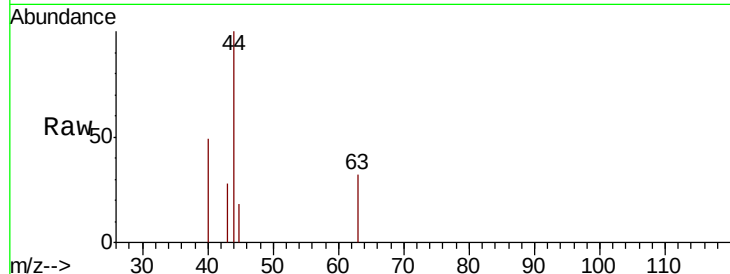




#58
 2-Chloroethyl Vinyl ether
 Concen: 7.33 ug/l
 RT: 8.32 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VX004485.D
 Acq: 12 Sep 2018 10:59

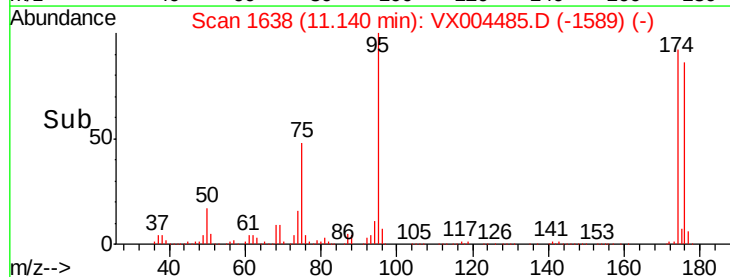
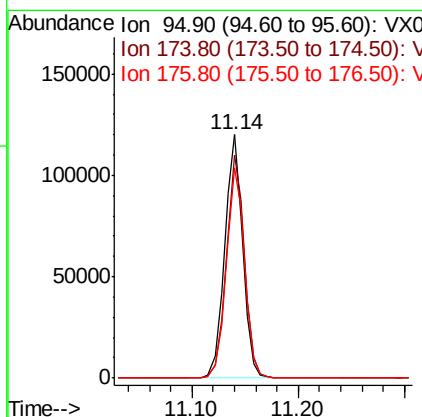
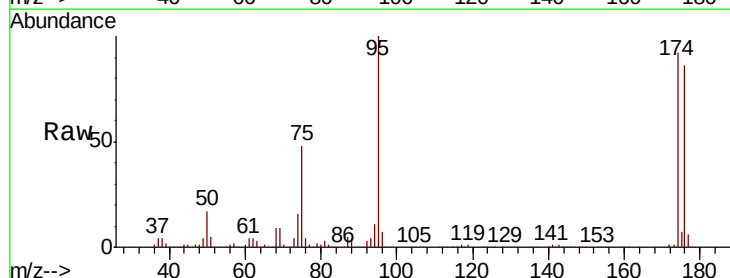
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0912WBL01

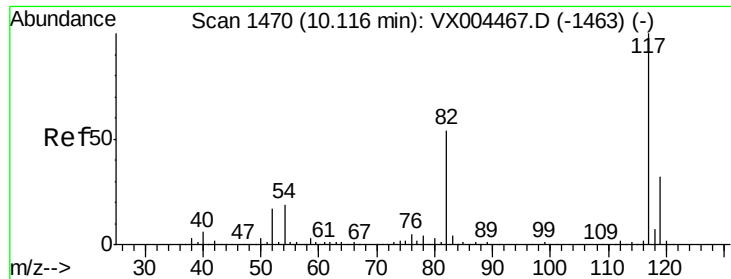
Tot Ion: 63 Resp: 107
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#62
 4-Bromofluorobenzene
 Concen: 44.72 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004485.D
 Acq: 12 Sep 2018 10:59

Tgt Ion: 95 Resp: 141590
 Ion Ratio Lower Upper
 95 100
 174 92.4 0.0 185.2
 176 88.3 0.0 178.6

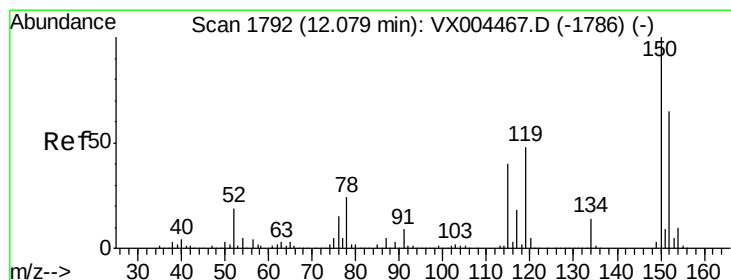
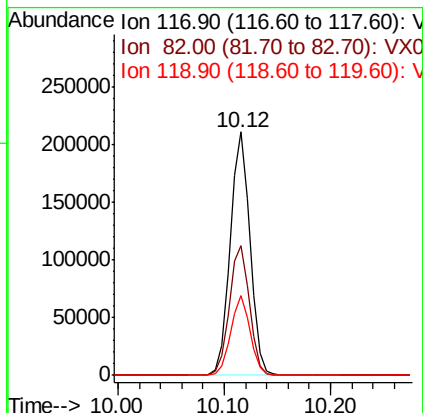
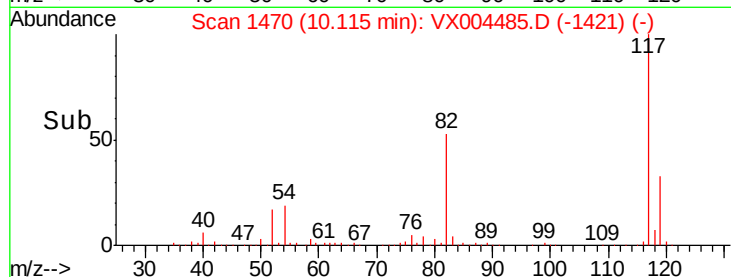
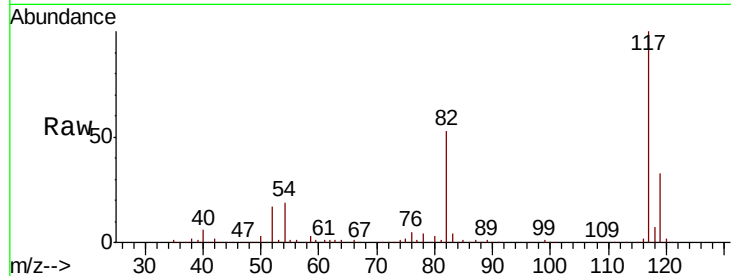




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

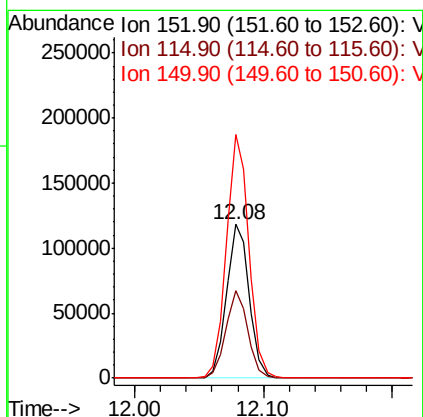
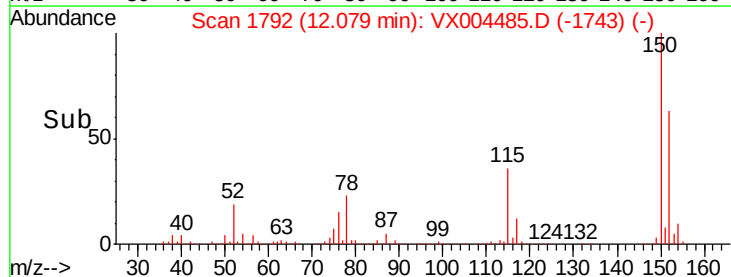
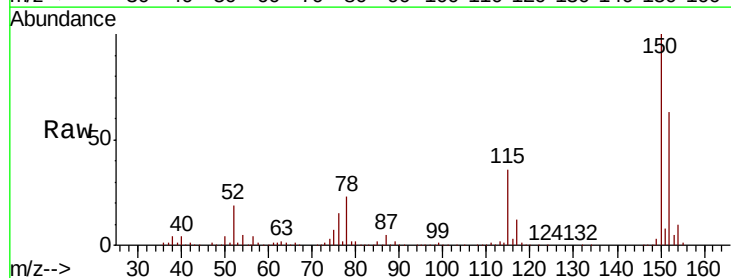
Instrument :
MSVOA_X
ClientSampled :
VX0912WBL01

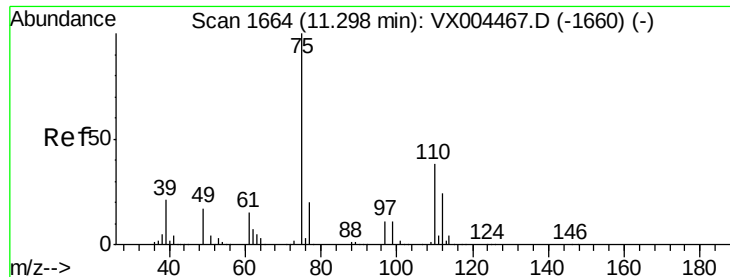
Tot Ion:117 Resp: 275577
Ion Ratio Lower Upper
117 100
82 53.4 47.8 71.6
119 32.6 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004485.D
Acq: 12 Sep 2018 10:59

Tgt Ion:152 Resp: 146364
Ion Ratio Lower Upper
152 100
115 55.3 39.0 117.0
150 156.9 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.99 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

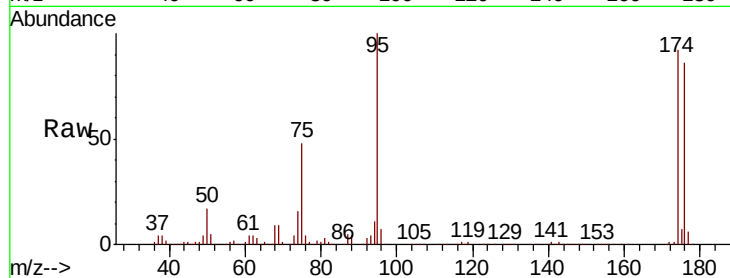
VX0912WBL01

Tot Ion: 75 Resp: 67713

Ion Ratio Lower Upper

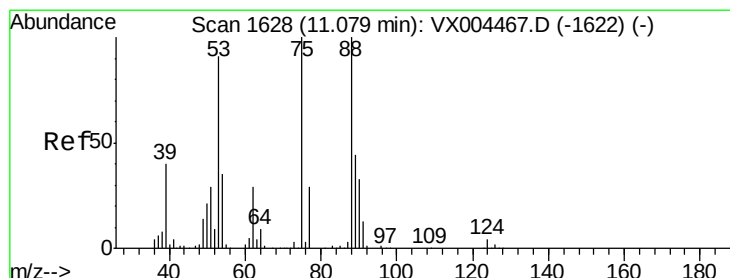
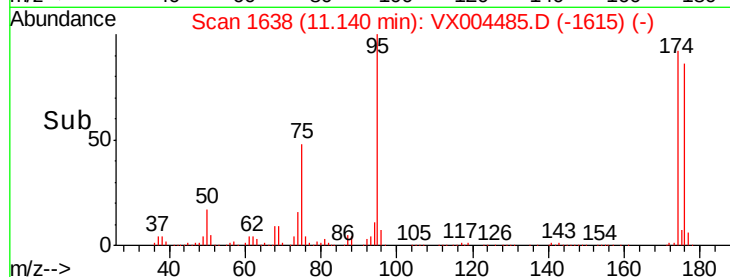
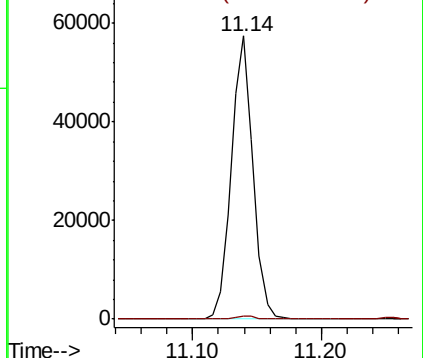
75 100

77 1.3 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: 73.30 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

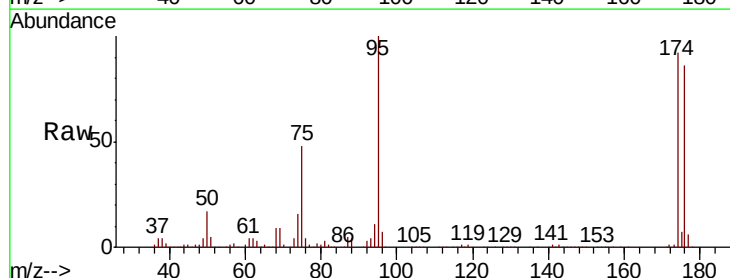
Tgt Ion: 75 Resp: 67713

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

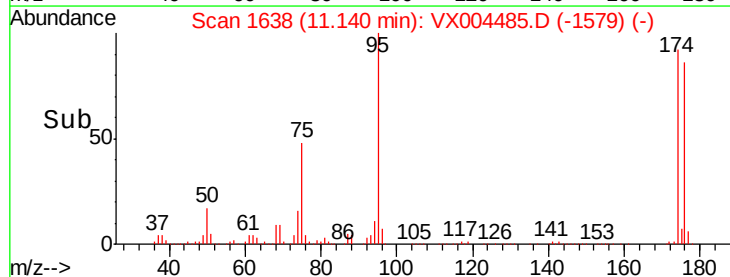
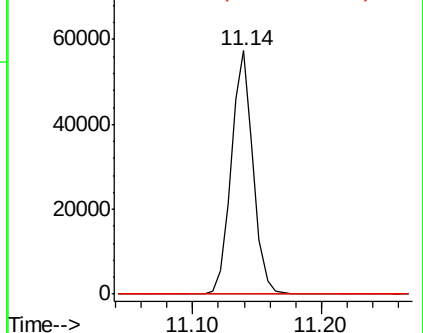
89 0.0 37.2 55.8#

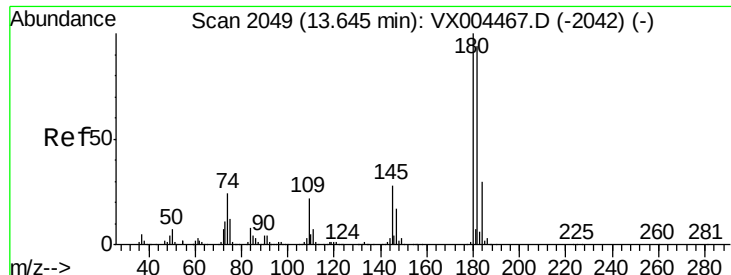


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.25 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX004485.D

Acq: 12 Sep 2018 10:59

Instrument :

MSVOA_X

ClientSampleId :

VX0912WBL01

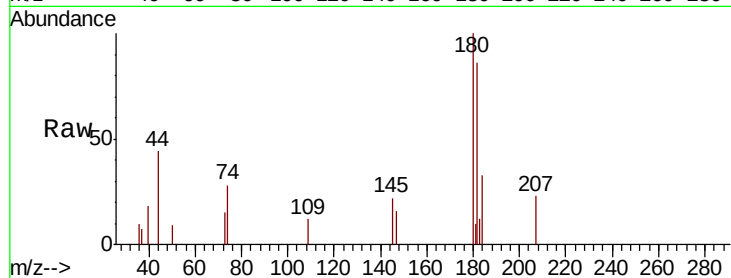
Tot Ion:180 Resp: 895

Ion Ratio Lower Upper

180 100

182 90.4 48.4 145.0

145 25.6 14.3 42.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

