

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005439.D
 Acq On : 18 Oct 2018 19:17
 Operator : JC/MD
 Sample : J5202-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PL-03-101718-A

Quant Time: Oct 19 03:35:35 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	298466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	436559	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	382108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181864	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	170988	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	5.50	113	137160	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	8.71	98	505492	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.14	95	165604	44.41	ug/l	0.00
Spiked Amount			Recovery	=	88.82%	

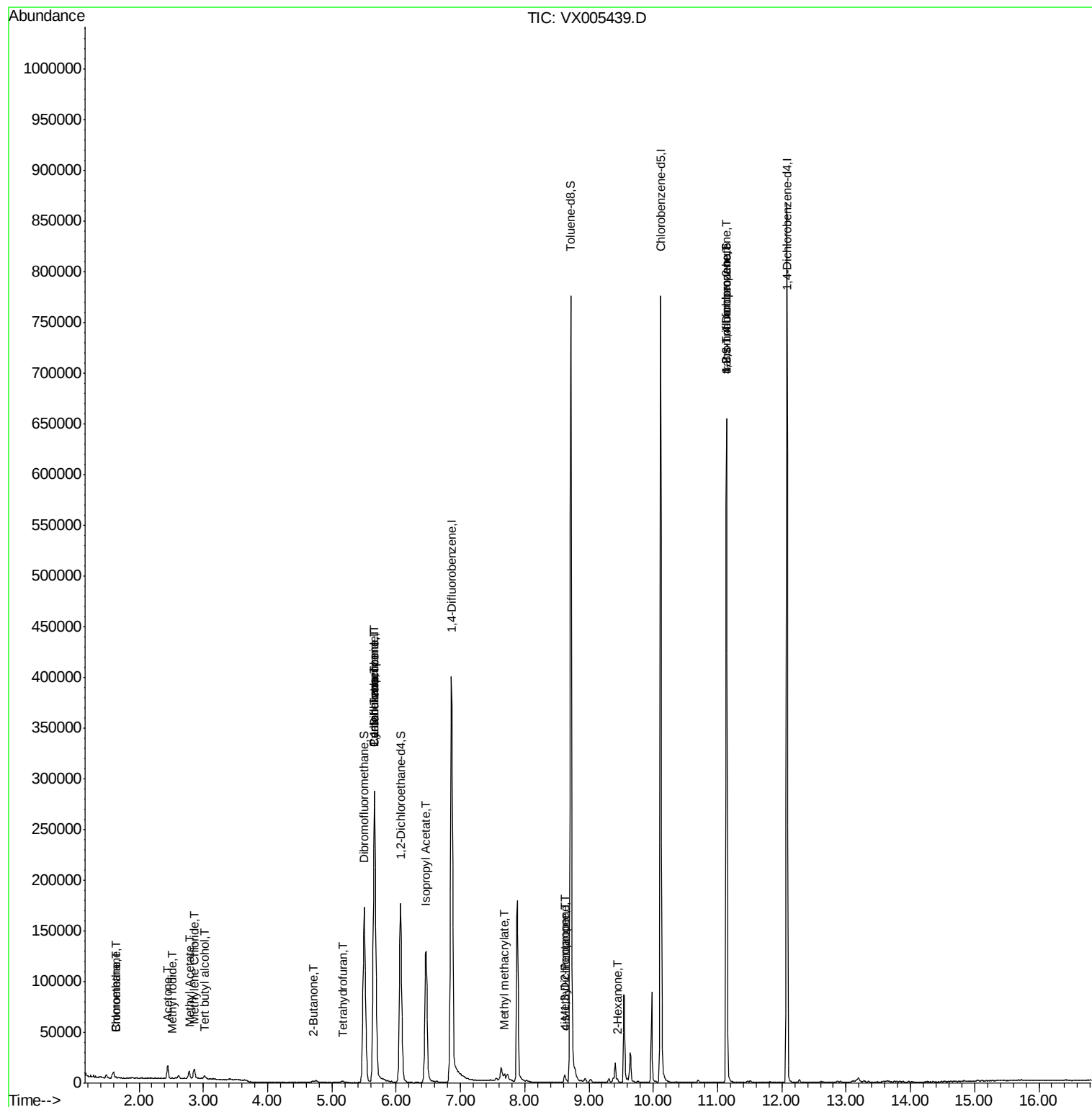
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	231	0.702	ug/l #	10
6) Chloroethane	1.64	64	270	0.455	ug/l #	44
10) Methyl Iodide	2.51	142	22	2.496	ug/l #	41
11) Tert butyl alcohol	3.03	59	2011	2.152	ug/l #	78
13) Acrolein	2.29	56	44	Below Cal	#	1
16) Acetone	2.45	43	12971	6.772	ug/l #	88
18) Methyl Acetate	2.78	43	9117	1.673	ug/l	99
20) Methylene Chloride	2.85	84	4315	0.244	ug/l	93
25) 2-Butanone	4.71	43	3014	1.076	ug/l #	87
29) Tetrahydrofuran	5.16	42	1470	0.822	ug/l #	74
31) Cyclohexane	5.66	56	5002	1.099	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18683	4.419	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25755	6.062	ug/l #	15
43) Isopropyl Acetate	6.46	43	177375	24.489	ug/l	97
44) Trichloroethene	7.21	130	46	Below Cal		4
48) Methyl methacrylate	7.69	41	6652	1.771	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	3094	0.617	ug/l #	43
54) cis-1,3-Dichloropropene	8.62	75	1121	0.252	ug/l #	68
59) 2-Hexanone	9.45	43	1246	0.309	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	81294	23.045	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	81294	70.021	ug/l #	10

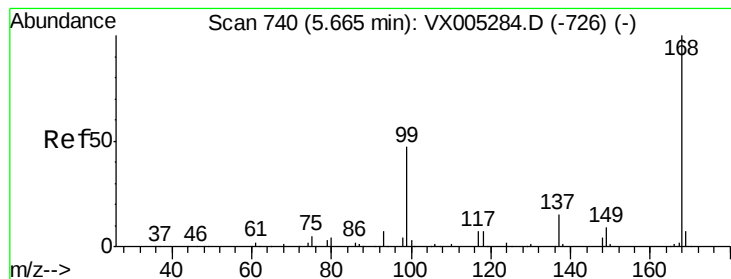
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

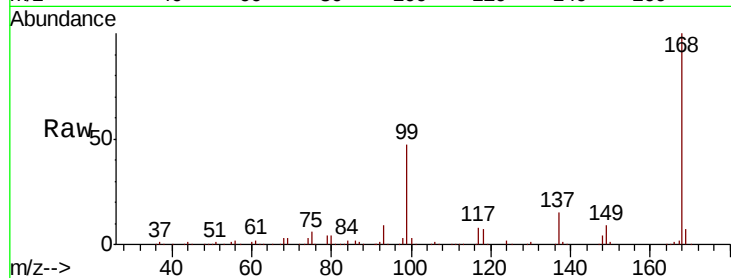
PL-03-101718-A

Tot Ion:168 Resp: 298466

Ion Ratio Lower Upper

168 100

99 46.8 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

120000

100000

80000

60000

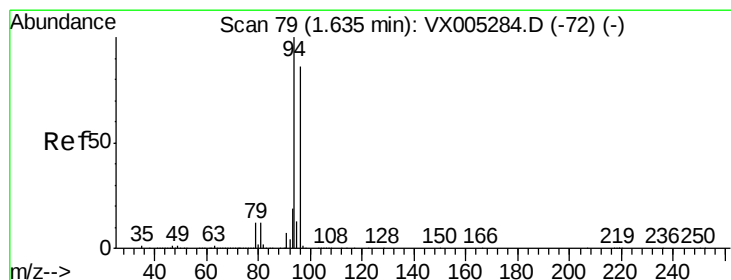
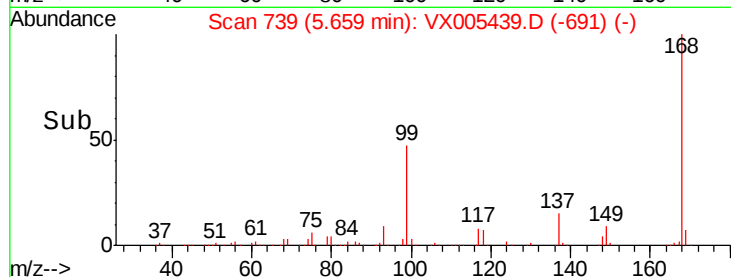
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.702 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005439.D

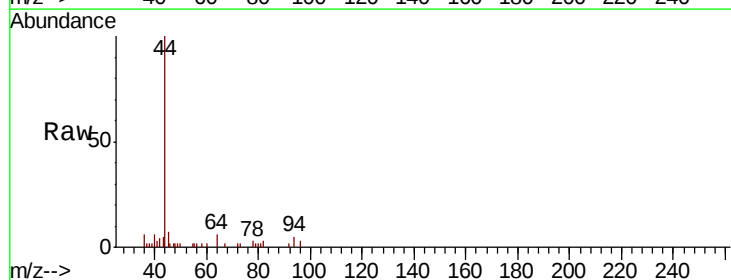
Acq: 18 Oct 2018 19:17

Tgt Ion: 94 Resp: 231

Ion Ratio Lower Upper

94 100

96 6.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

150

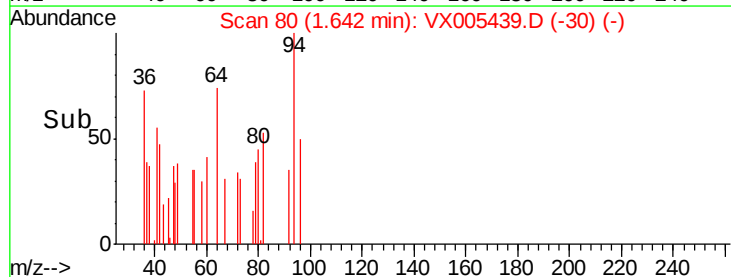
100

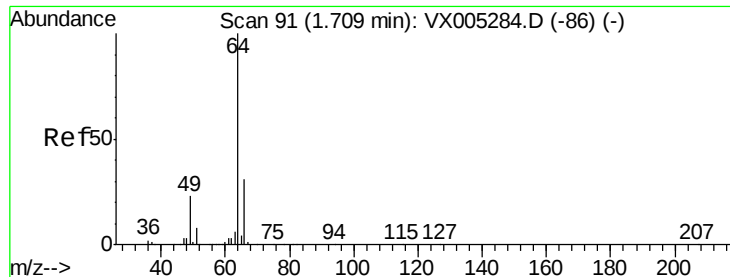
50

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 0.455 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.07 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

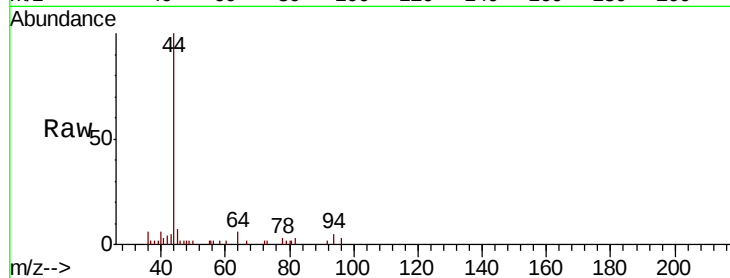
PL-03-101718-A

Tot Ion: 64 Resp: 270

Ion Ratio Lower Upper

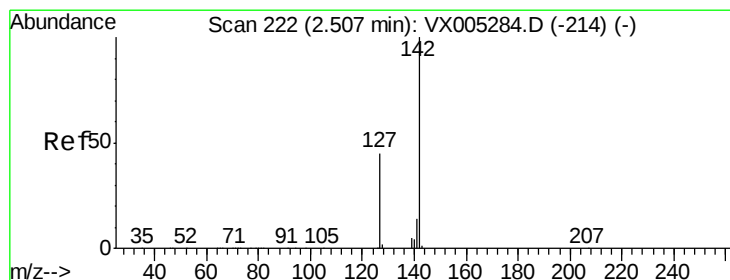
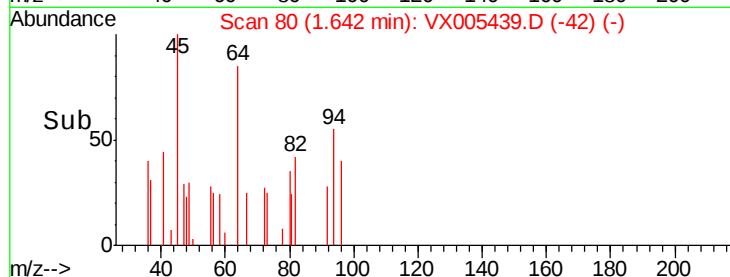
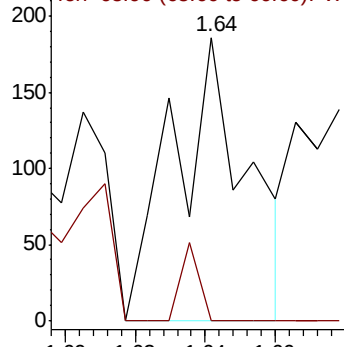
64 100

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



#10

Methyl Iodide

Concen: 2.496 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

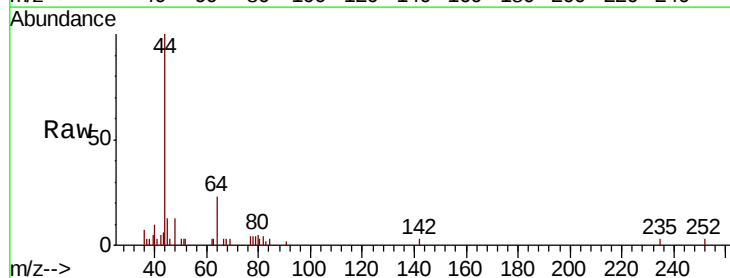
Tgt Ion:142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

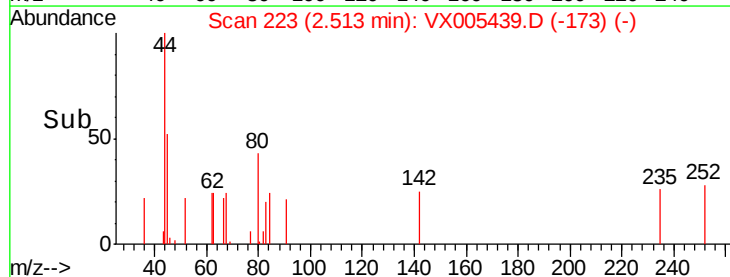
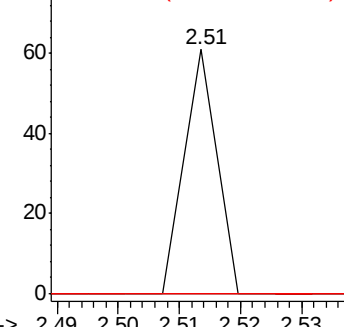
141 0.0 11.4 17.0#



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



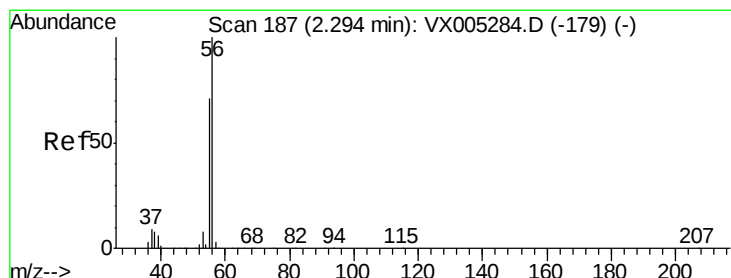
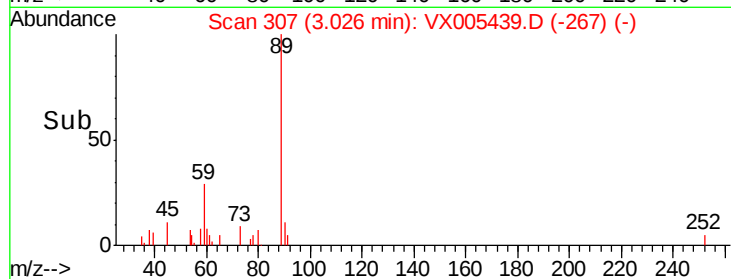
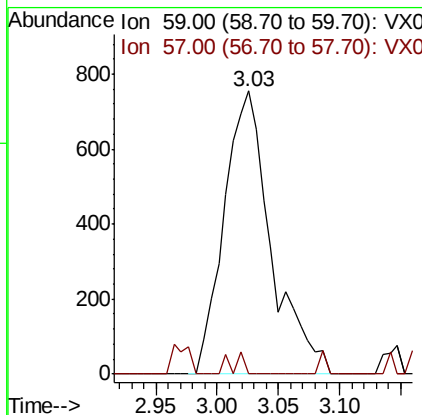
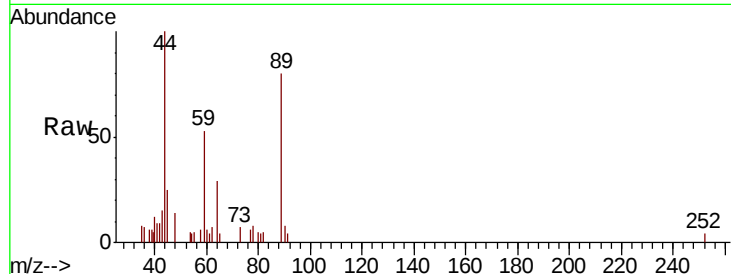


#11

Tert butyl alcohol
 Concen: 2.152 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX005439.D
 Acq: 18 Oct 2018 19:17

Instrument :
 MSVOA_X
 ClientSampleId :
 PL-03-101718-A

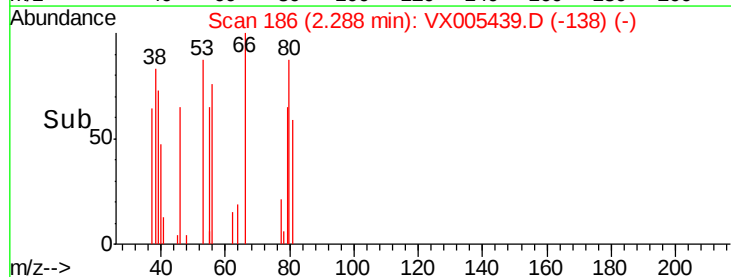
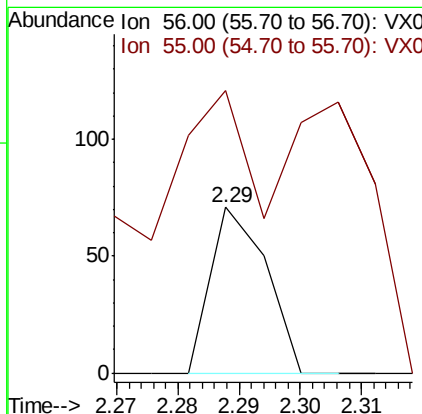
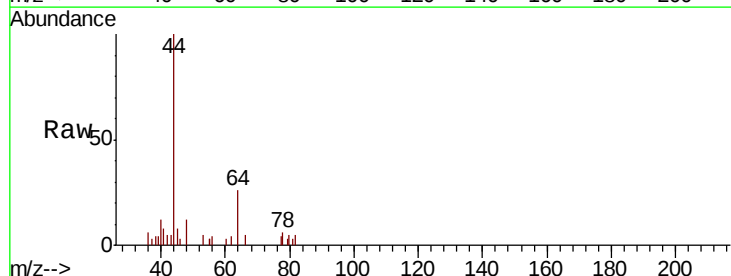
Tot Ion: 59 Resp: 2011
 Ion Ratio Lower Upper
 59 100
 57 2.0 8.2 12.4#

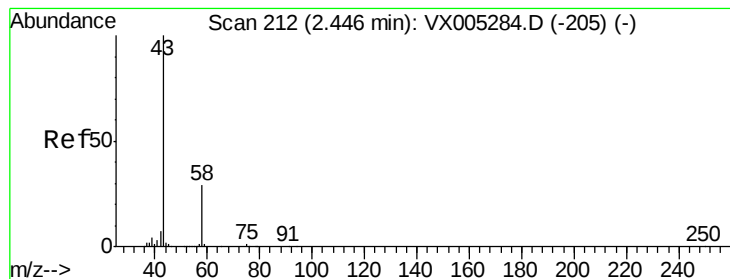


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005439.D
 Acq: 18 Oct 2018 19:17

Tgt Ion: 56 Resp: 44
 Ion Ratio Lower Upper
 56 100
 55 240.9 54.7 82.1#





#16

Acetone

Concen: 6.772 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

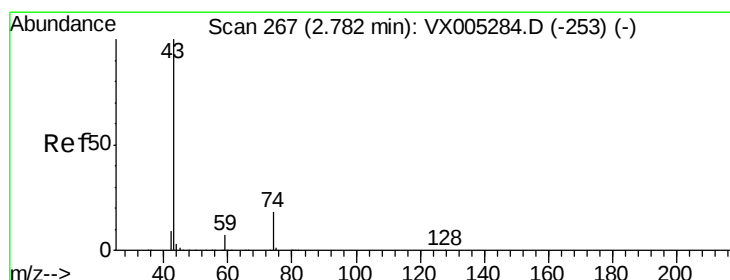
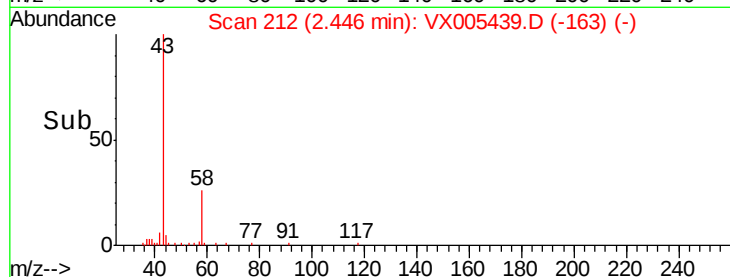
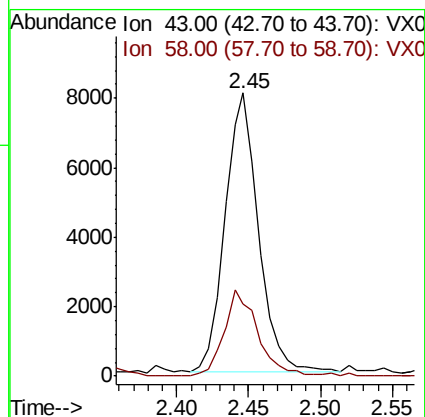
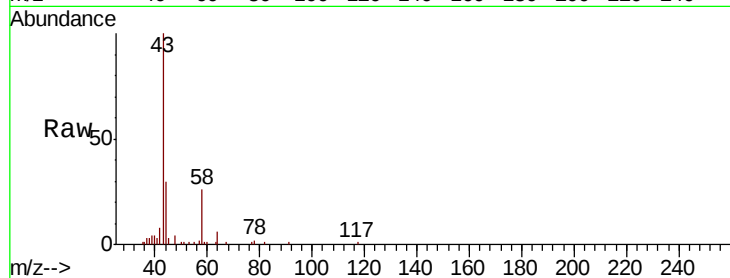
PL-03-101718-A

Tot Ion: 43 Resp: 12971

Ion Ratio Lower Upper

43 100

58 26.1 26.2 39.4#



#18

Methyl Acetate

Concen: 1.673 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005439.D

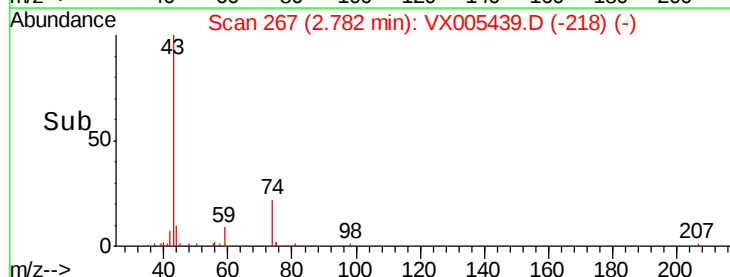
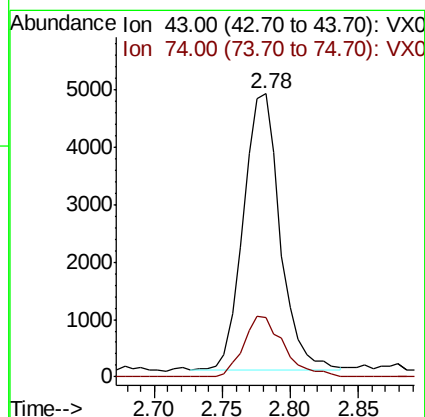
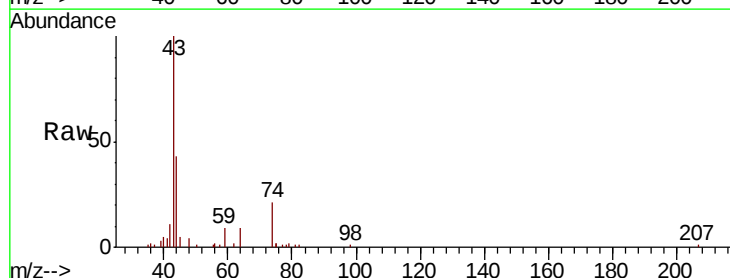
Acq: 18 Oct 2018 19:17

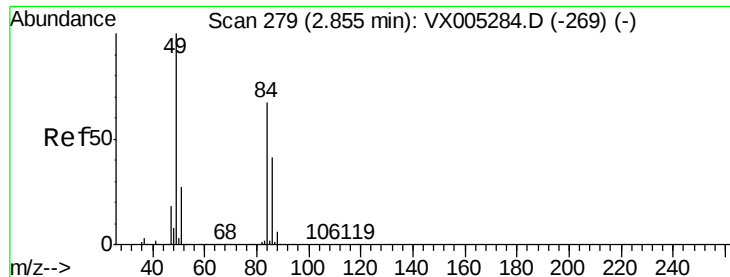
Tgt Ion: 43 Resp: 9117

Ion Ratio Lower Upper

43 100

74 23.9 19.4 29.2

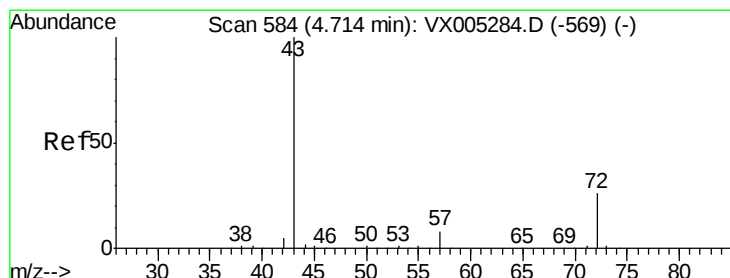
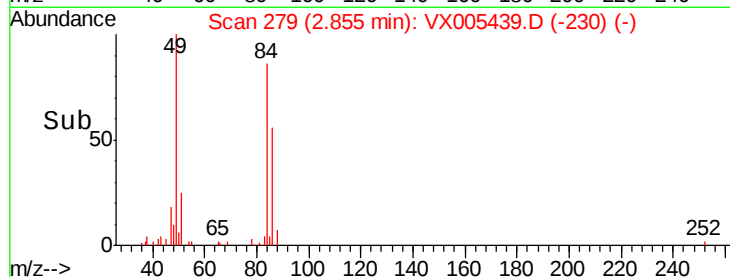
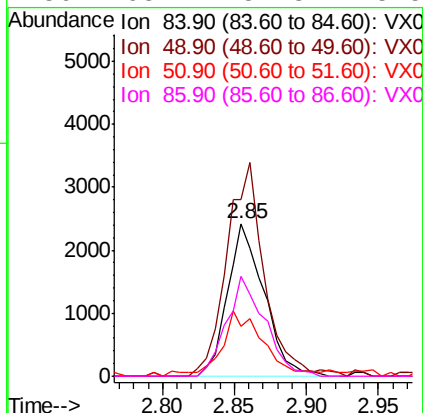
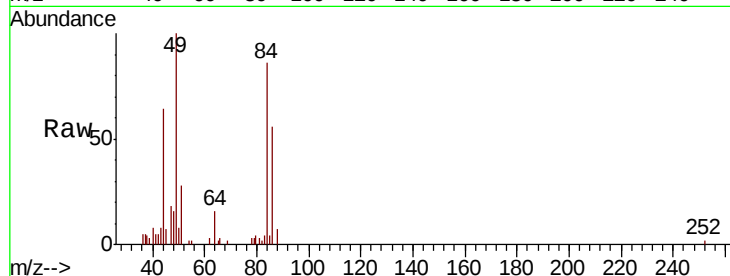




#20
Methylene Chloride
Concen: 0.244 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005439.D
Acq: 18 Oct 2018 19:17

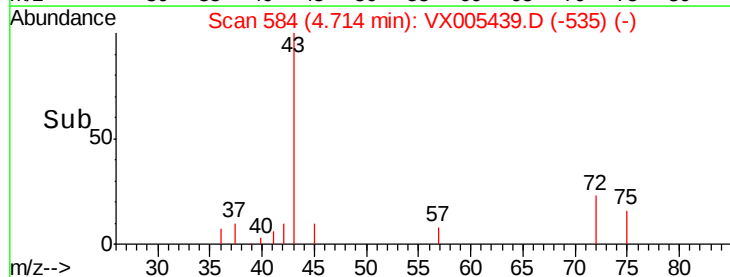
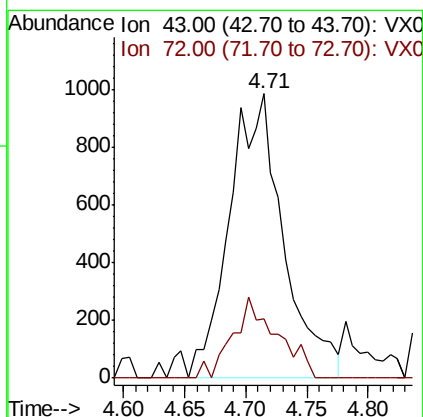
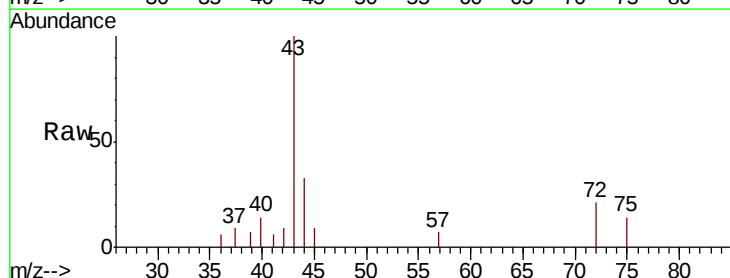
Instrument :
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PL-03-101718-A

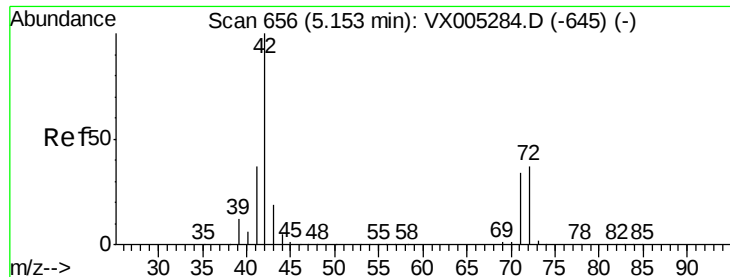
Tot Ion:	84	Resp:	4315
Ion	Ratio	Lower	Upper
84	100		
49	115.7	101.2	151.8
51	29.9	29.5	44.3
86	65.2	52.3	78.5



#25
2-Butanone
Concen: 1.076 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.00 min
Lab File: VX005439.D
Acq: 18 Oct 2018 19:17

Tgt Ion:	43	Resp:	3014
Ion	Ratio	Lower	Upper
43	100		
72	20.5	22.0	33.0#





#29

Tetrahydrofuran

Concen: 0.822 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

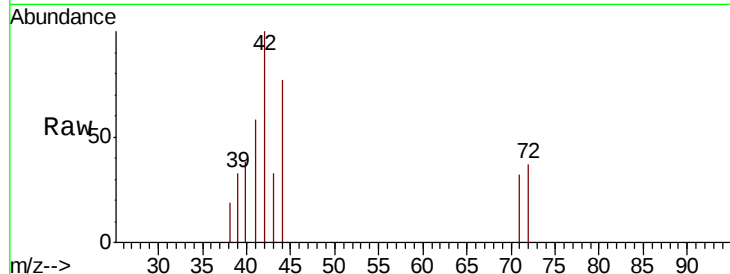
Tot Ion: 42 Resp: 1470

Ion Ratio Lower Upper

42 100

72 33.5 37.4 56.0#

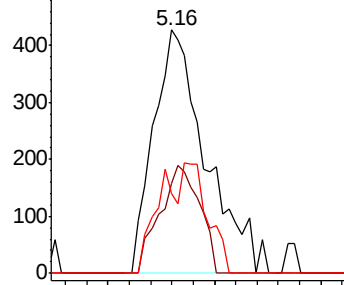
71 22.6 34.5 51.7#



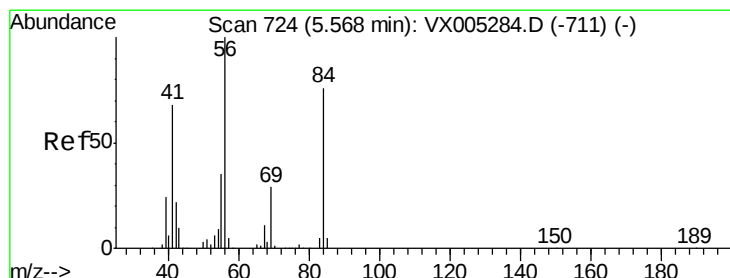
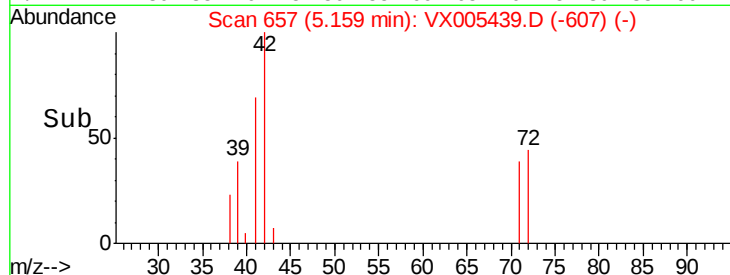
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.099 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

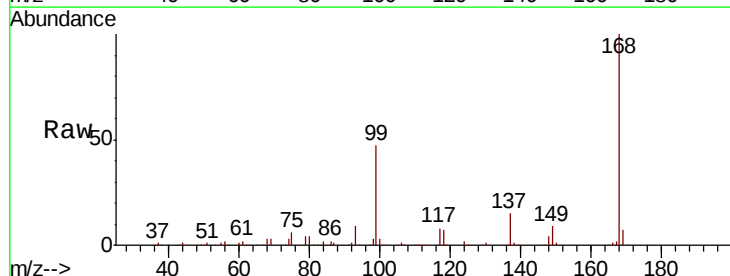
Tgt Ion: 56 Resp: 5002

Ion Ratio Lower Upper

56 100

69 182.3 25.4 38.2#

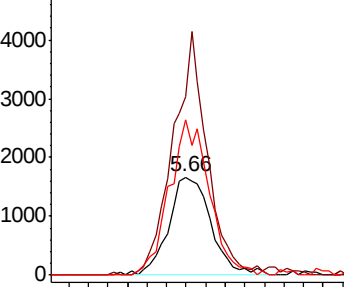
84 158.5 71.4 107.2#



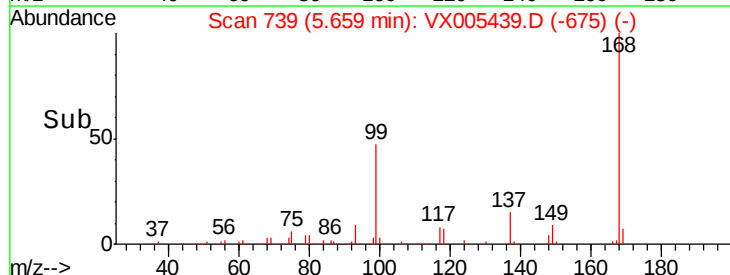
Abundance Ion 56.00 (55.70 to 56.70): VX0

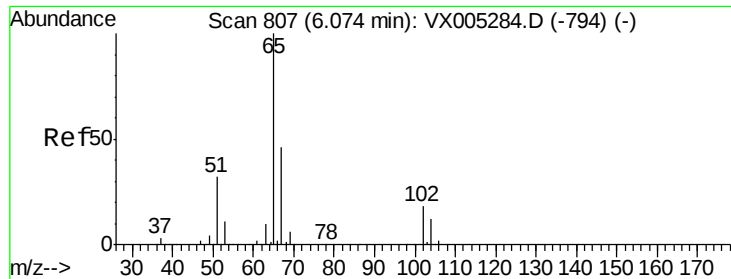
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.619 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

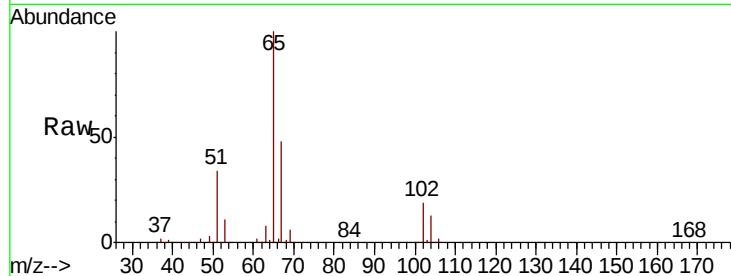
PL-03-101718-A

Tot Ion: 65 Resp: 170988

Ion Ratio Lower Upper

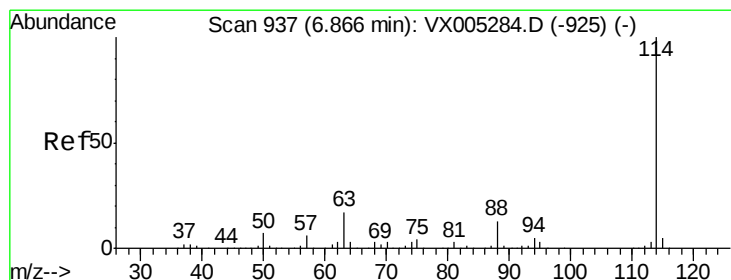
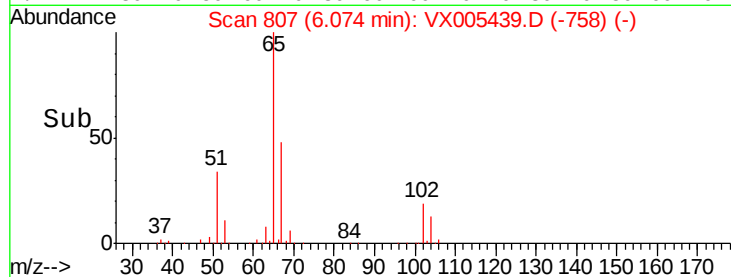
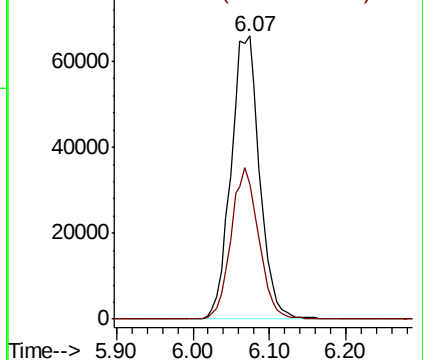
65 100

67 51.7 0.0 106.8



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. -0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

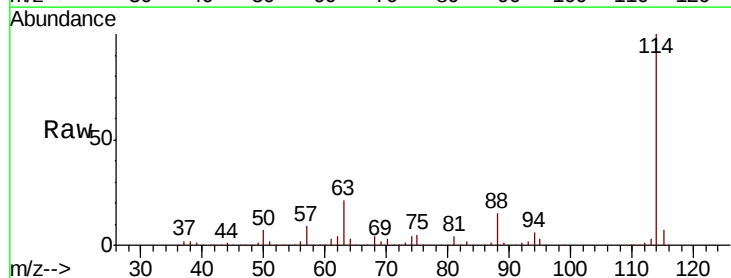
Tgt Ion: 114 Resp: 436559

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

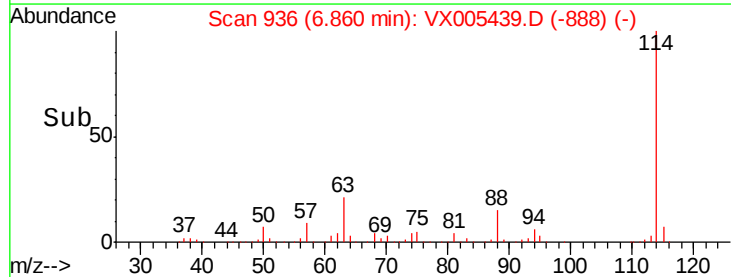
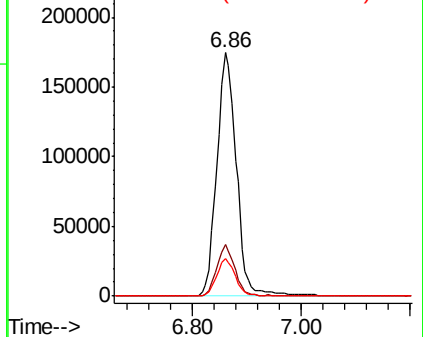
88 15.4 0.0 30.4

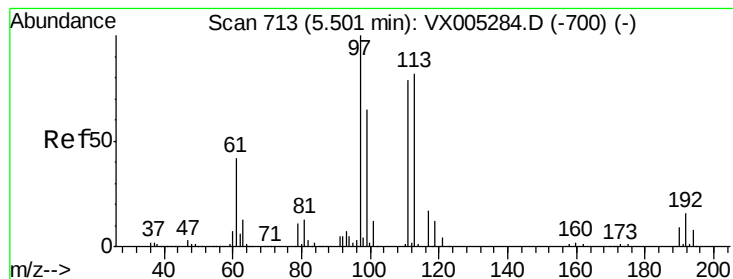


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.437 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

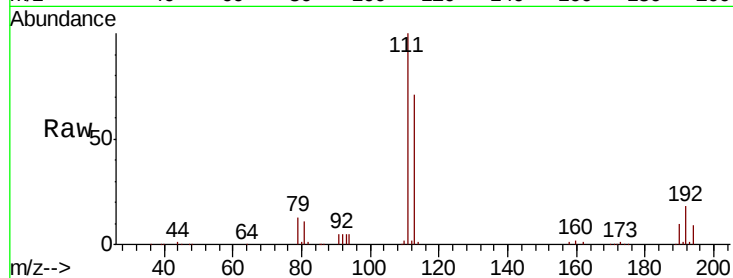
Tot Ion:113 Resp: 137160

Ion Ratio Lower Upper

113 100

111 106.3 82.4 123.6

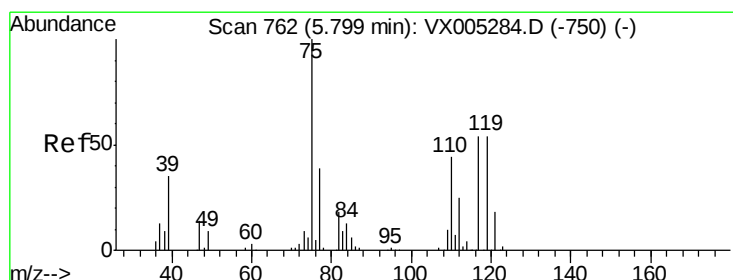
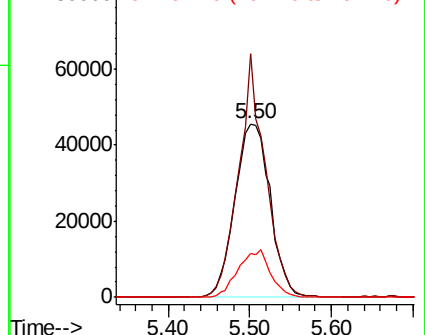
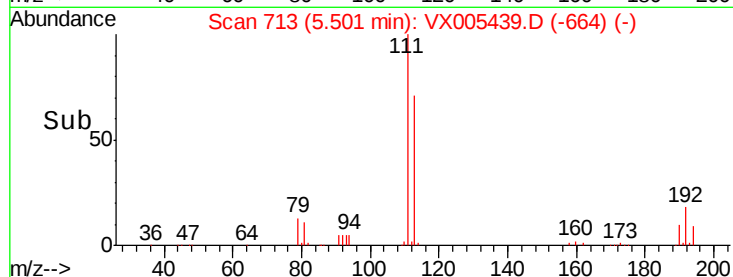
192 25.2 19.4 29.2



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: 4.419 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

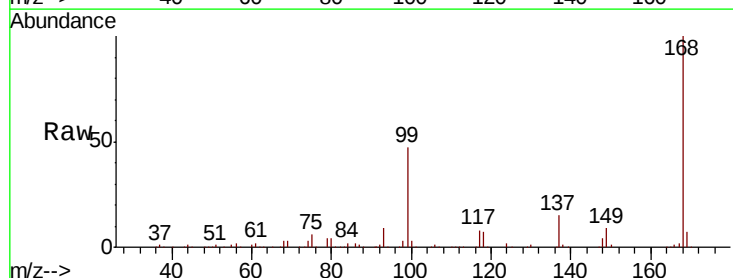
Tgt Ion: 75 Resp: 18683

Ion Ratio Lower Upper

75 100

110 9.4 18.0 54.0#

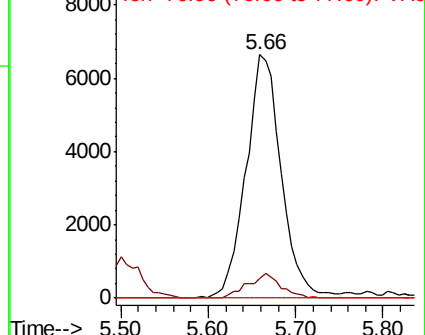
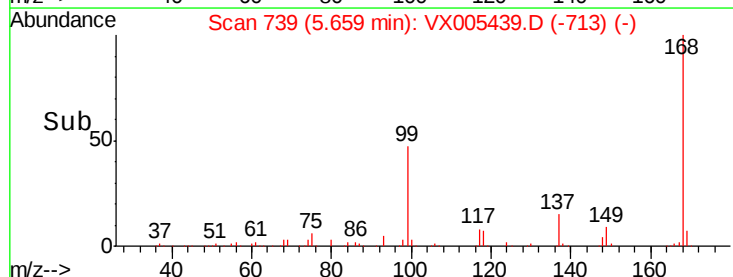
77 0.0 24.6 36.8#

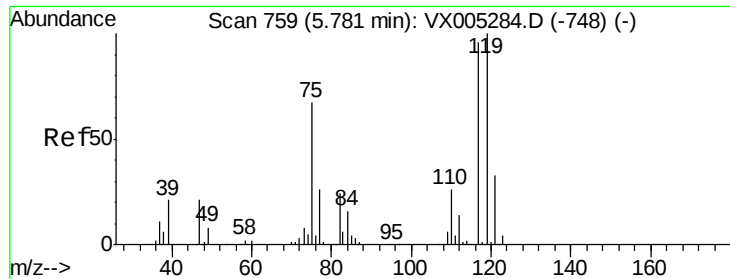


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.062 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

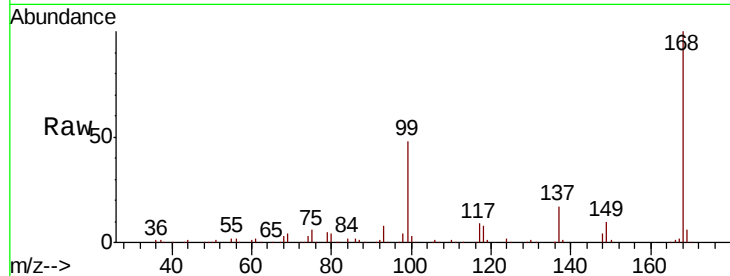
Tot Ion:117 Resp: 25755

Ion Ratio Lower Upper

117 100

119 5.4 78.8 118.2#

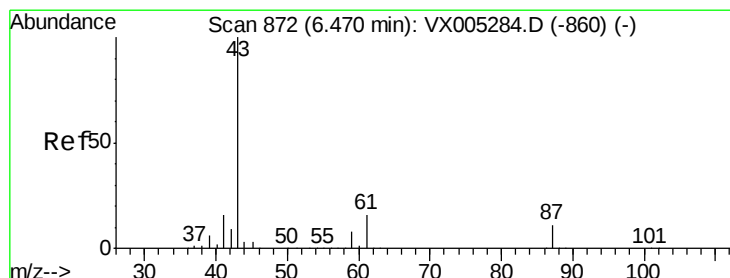
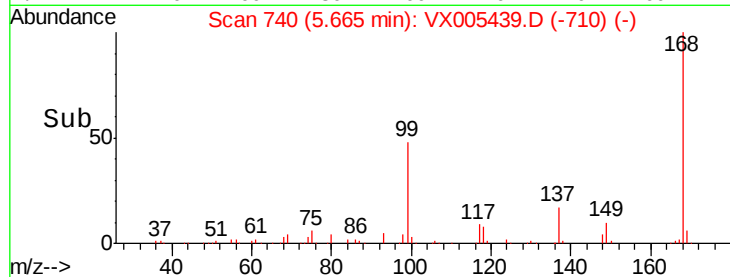
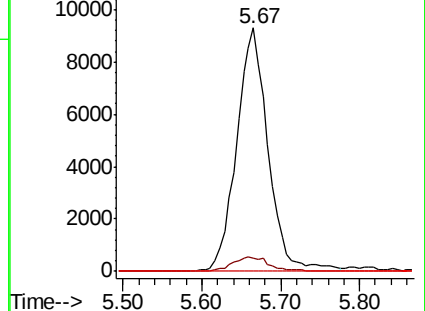
121 0.0 24.9 37.3#



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: 24.489 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

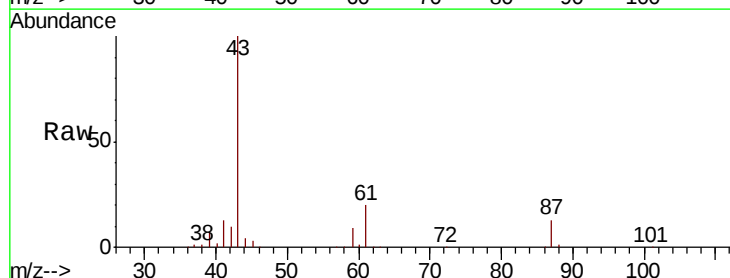
Tgt Ion: 43 Resp: 177375

Ion Ratio Lower Upper

43 100

61 19.9 17.0 25.4

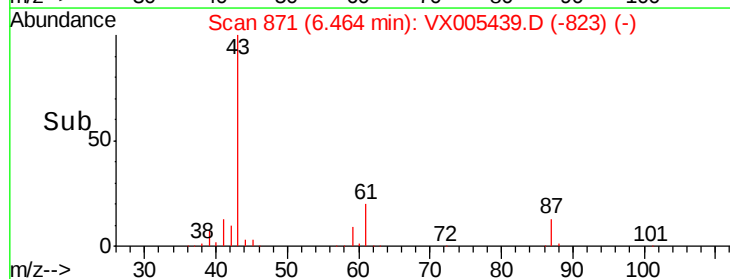
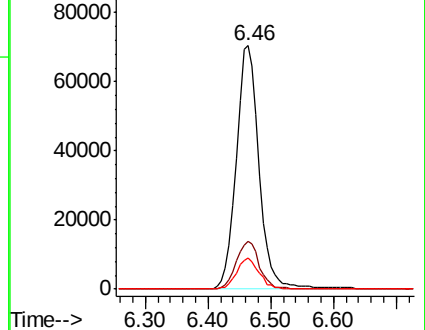
87 12.7 11.4 17.2

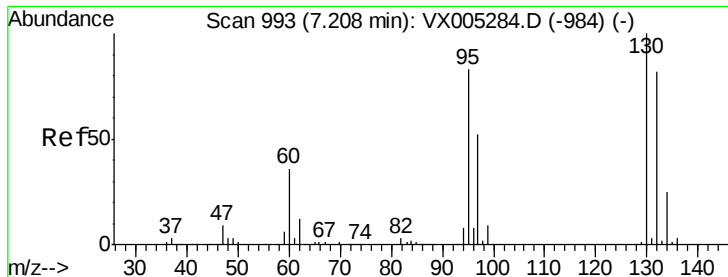


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

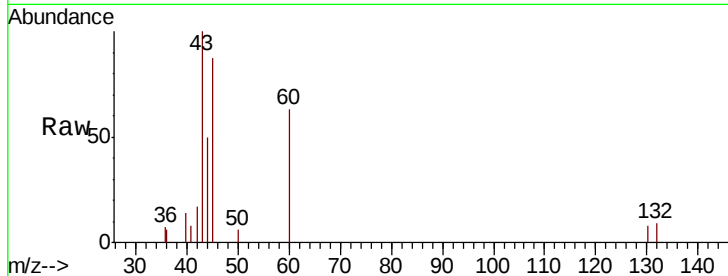
PL-03-101718-A

Tot Ion:130 Resp: 46

Ion Ratio Lower Upper

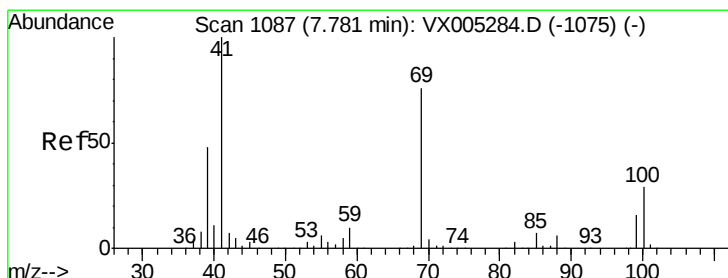
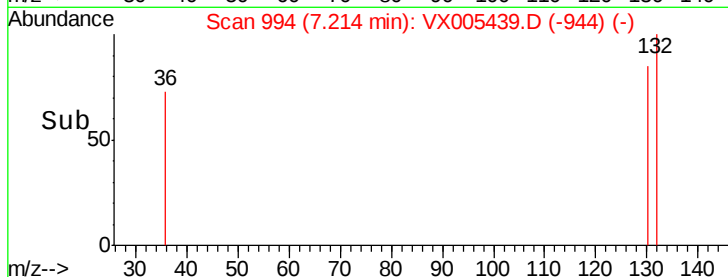
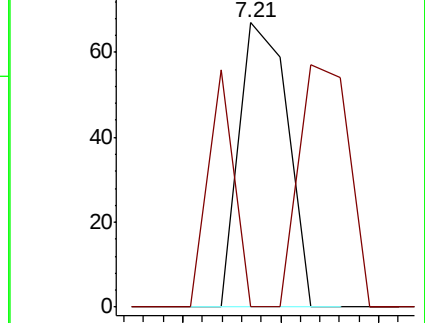
130 100

95 0.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.771 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

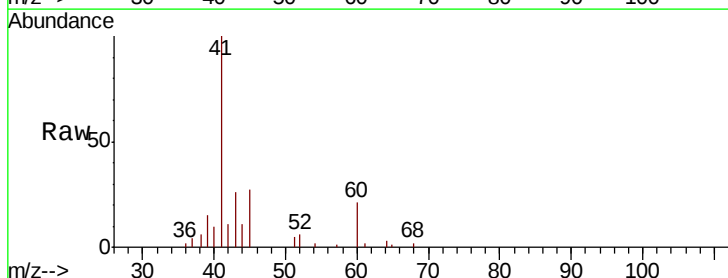
Tgt Ion: 41 Resp: 6652

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

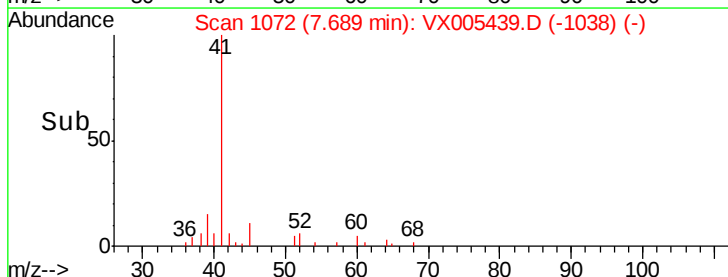
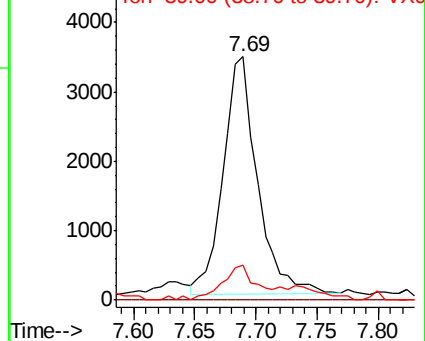
39 14.3 42.7 64.1#

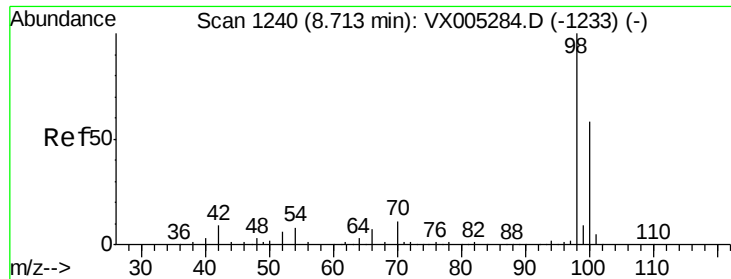


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 50.923 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

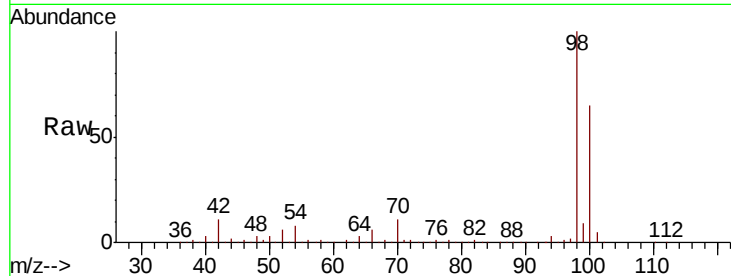
PL-03-101718-A

Tot Ion: 98 Resp: 505492

Ion Ratio Lower Upper

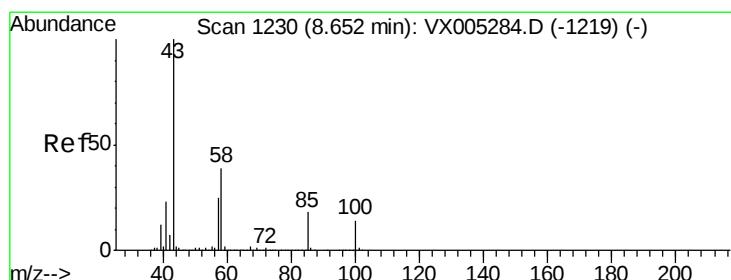
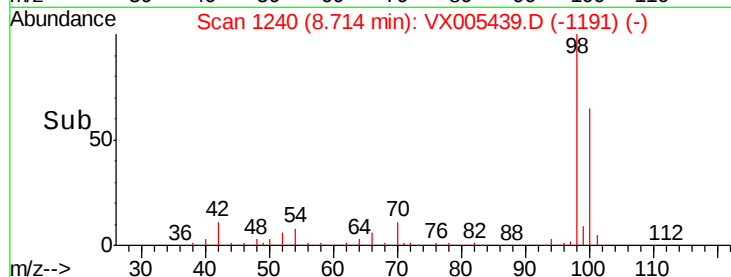
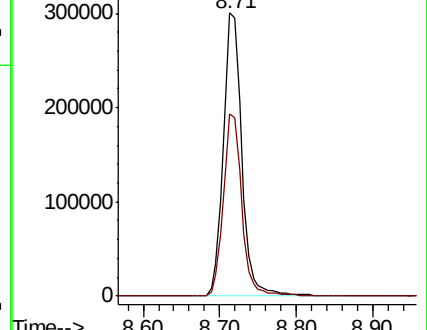
98 100

100 64.1 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: 0.617 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005439.D

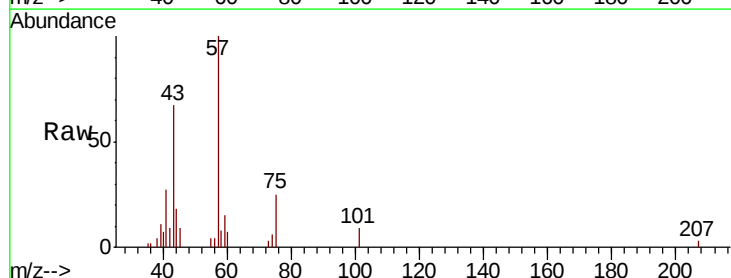
Acq: 18 Oct 2018 19:17

Tgt Ion: 43 Resp: 3094

Ion Ratio Lower Upper

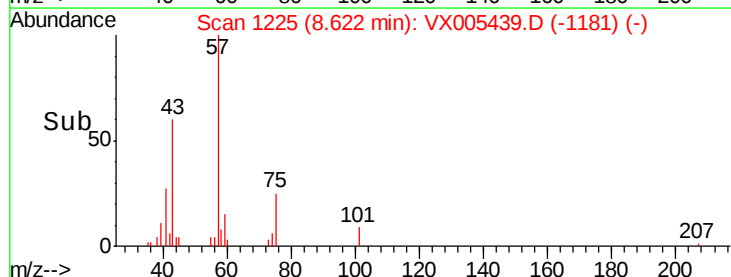
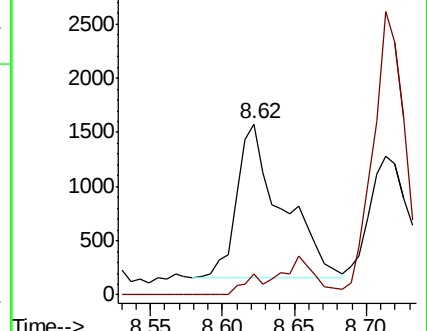
43 100

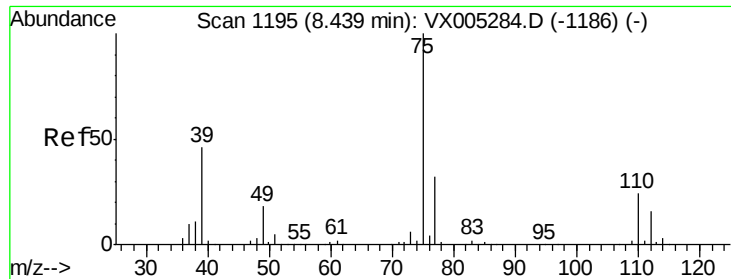
58 5.6 33.1 49.7#



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: 0.252 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

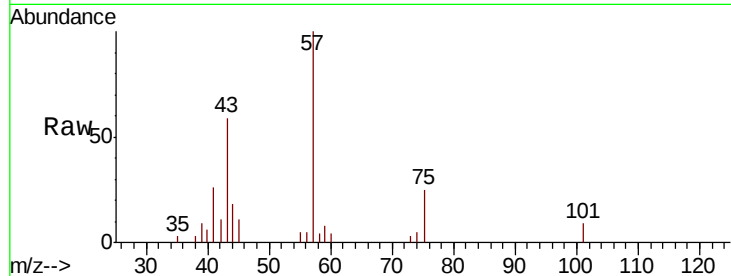
Tot Ion: 75 Resp: 1121

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

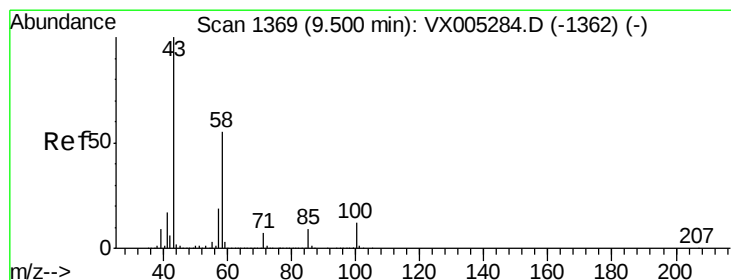
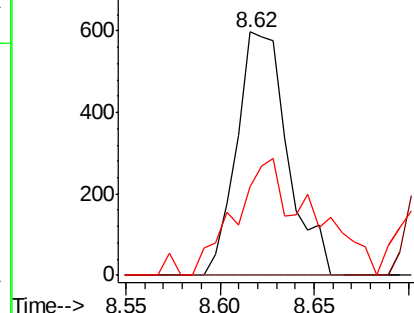
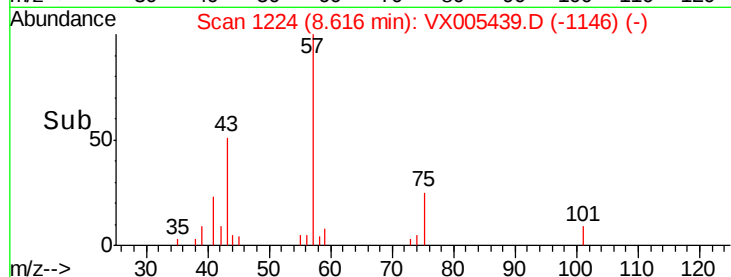
39 36.5 36.4 54.6



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



#59

2-Hexanone

Concen: 0.309 ug/l

RT: 9.45 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX005439.D

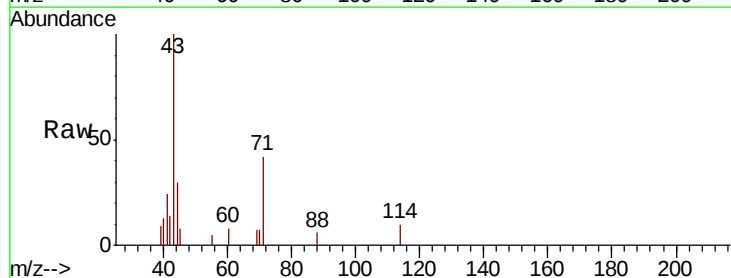
Acq: 18 Oct 2018 19:17

Tgt Ion: 43 Resp: 1246

Ion Ratio Lower Upper

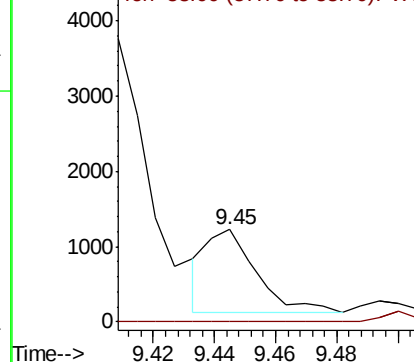
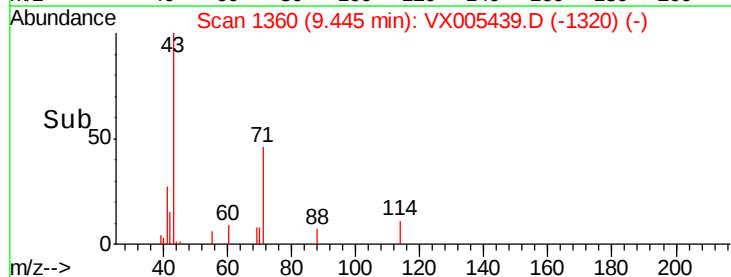
43 100

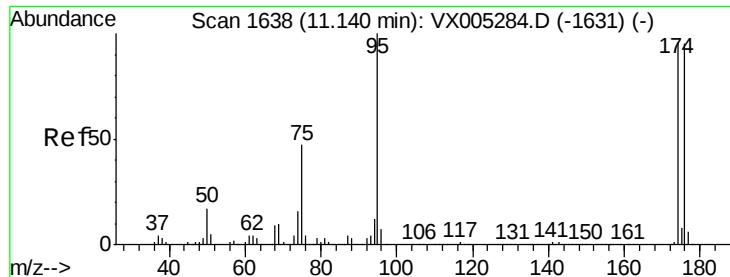
58 0.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

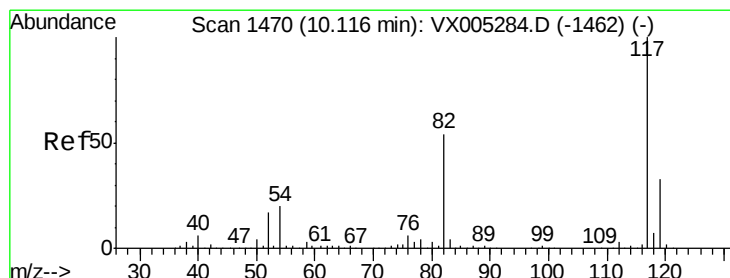
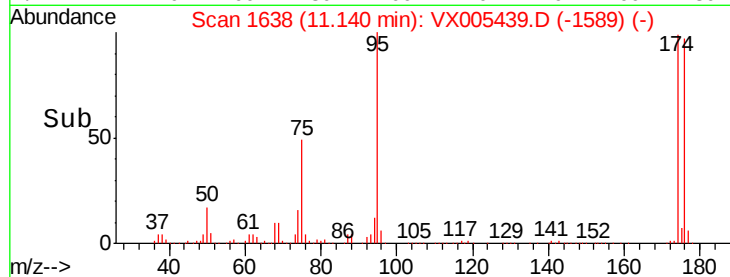
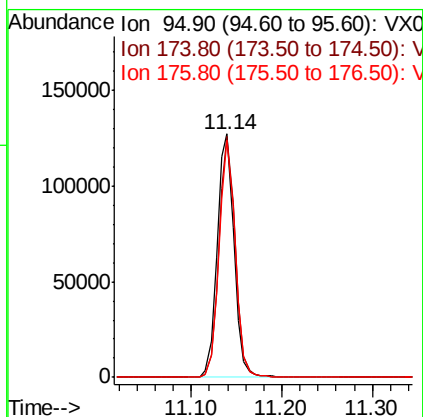
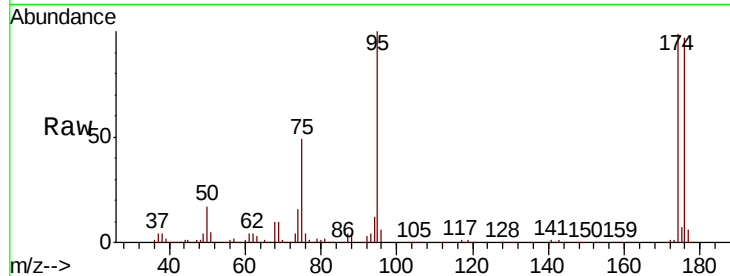




#62
4-Bromofluorobenzene
Concen: 44.409 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005439.D
Acq: 18 Oct 2018 19:17

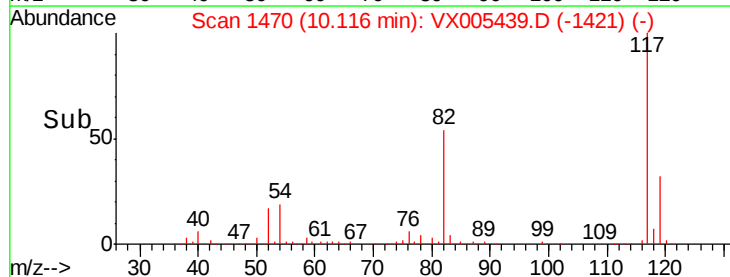
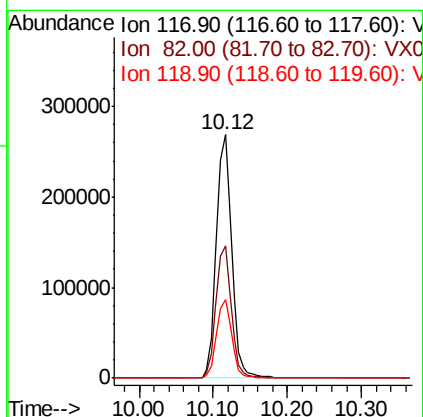
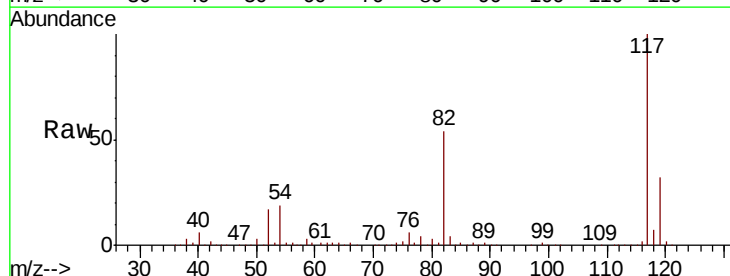
Instrument :
MSVOA_X
ClientSampleId :
PL-03-101718-A

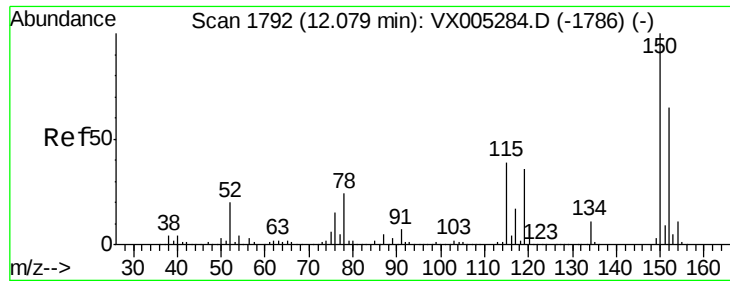
Tot Ion: 95 Resp: 165604
Ion Ratio Lower Upper
95 100
174 95.8 0.0 185.2
176 93.4 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005439.D
Acq: 18 Oct 2018 19:17

Tgt Ion: 117 Resp: 382108
Ion Ratio Lower Upper
117 100
82 54.2 47.8 71.6
119 32.4 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: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

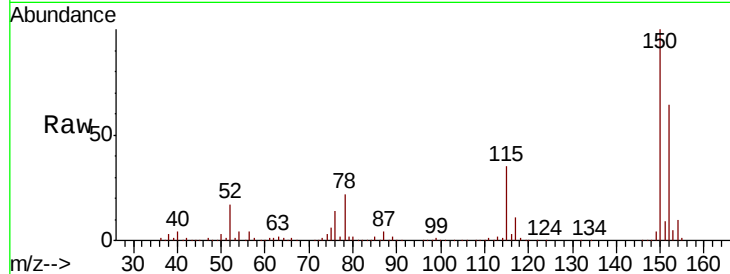
Tot Ion:152 Resp: 181864

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

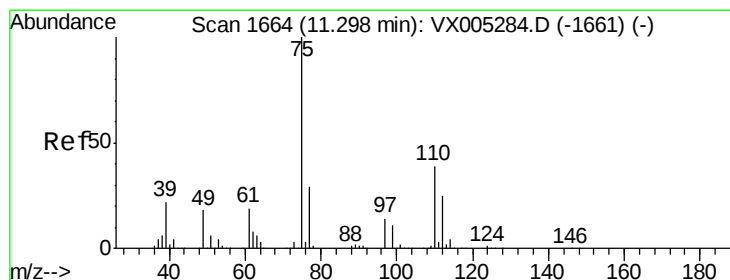
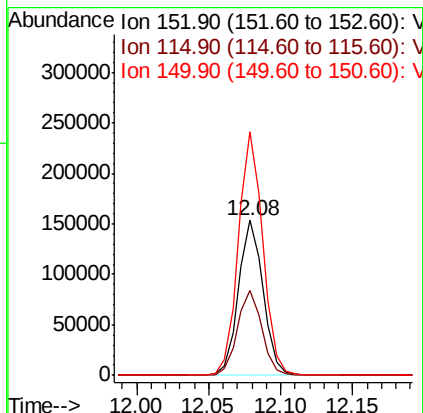
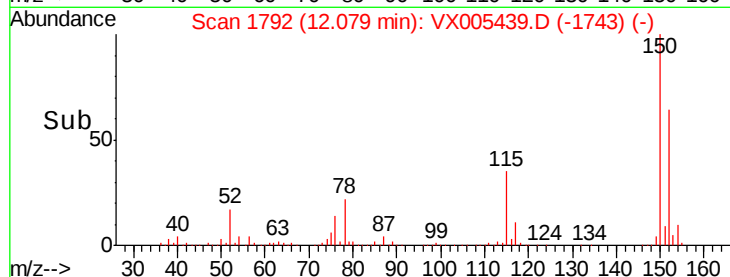
150 156.4 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 23.045 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005439.D

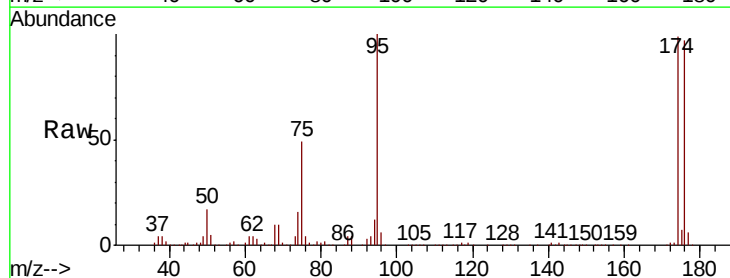
Acq: 18 Oct 2018 19:17

Tgt Ion: 75 Resp: 81294

Ion Ratio Lower Upper

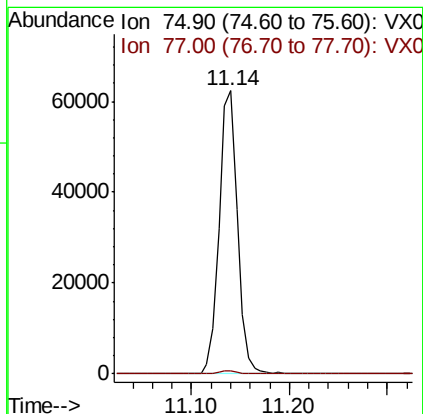
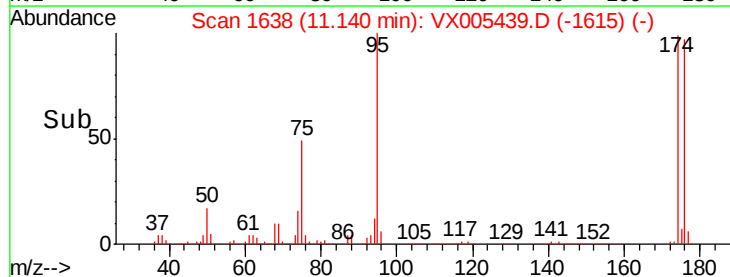
75 100

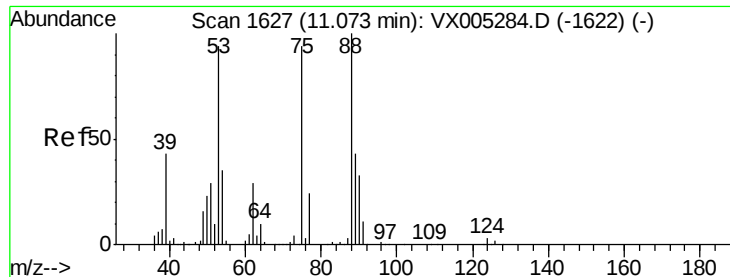
77 1.3 20.2 60.6#



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: 70.021 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005439.D

Acq: 18 Oct 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-A

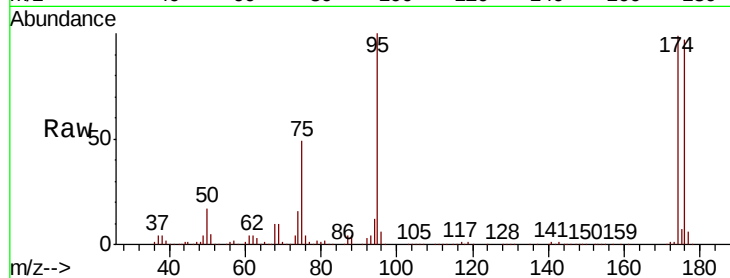
Tot Ion: 75 Resp: 81294

Ion Ratio Lower Upper

75 100

53 0.2 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

