

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005433.D
 Acq On : 18 Oct 2018 16:36
 Operator : JC/MD
 Sample : J5202-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

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

Quant Time: Oct 19 03:34:05 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	5.67	168	304838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	446738	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	399344	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193960	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	170246	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
35) Dibromofluoromethane	5.50	113	138814	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	8.72	98	525003	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.14	95	174984	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	

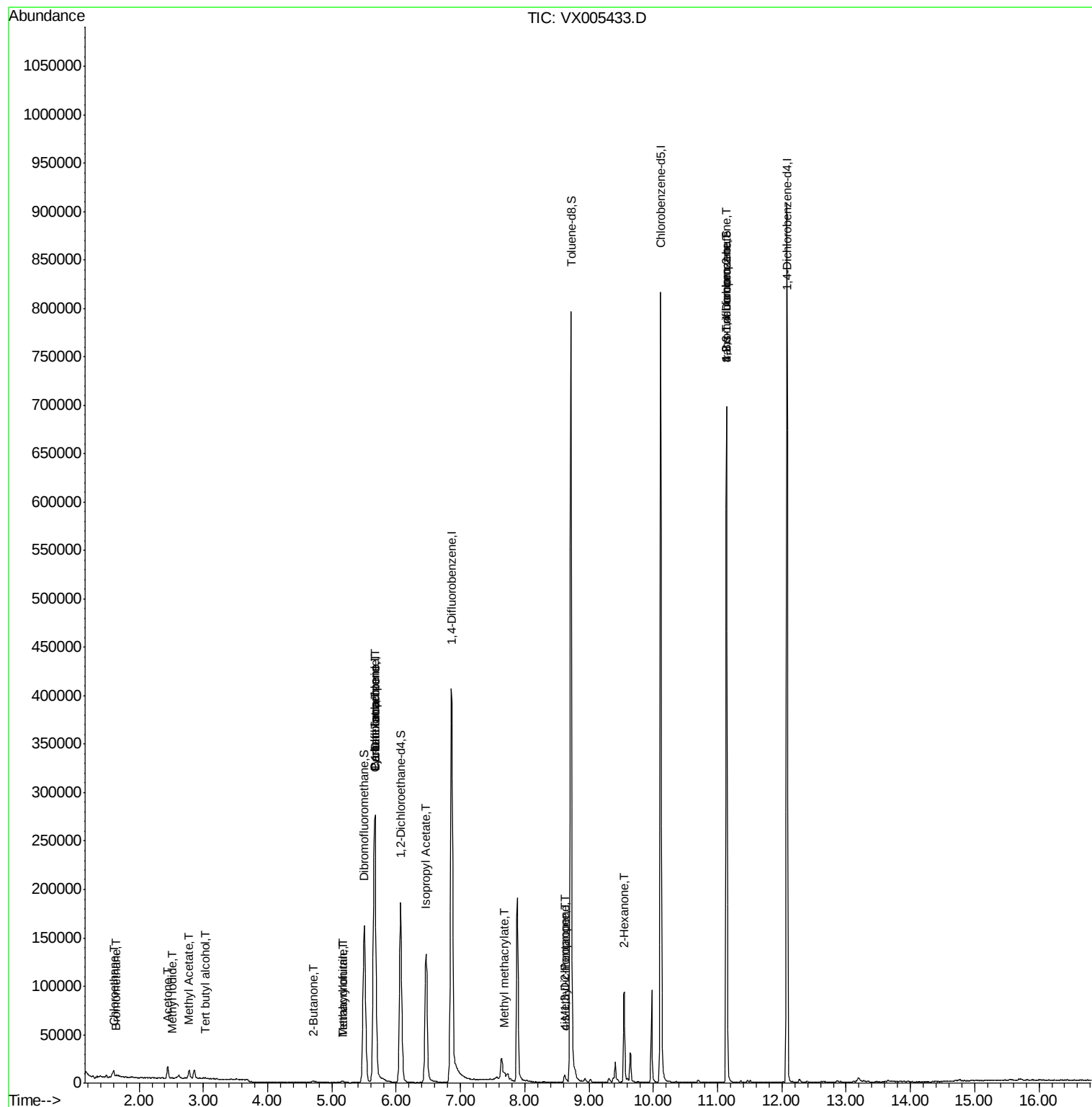
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	635	0.902	ug/l	89
6) Chloroethane	1.62	64	1296	0.901	ug/l #	74
10) Methyl Iodide	2.51	142	292	2.583	ug/l #	88
11) Tert butyl alcohol	3.02	59	848	0.889	ug/l	98
13) Acrolein	2.29	56	92	Below Cal	#	6
16) Acetone	2.45	43	12847	6.568	ug/l	96
18) Methyl Acetate	2.78	43	10805	1.942	ug/l	94
25) 2-Butanone	4.71	43	3112	1.087	ug/l	99
29) Tetrahydrofuran	5.16	42	1405	0.770	ug/l #	86
31) Cyclohexane	5.66	56	5023	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19441	4.493	ug/l #	50
38) Carbon Tetrachloride	5.67	117	26315	6.053	ug/l #	14
41) Methacrylonitrile	5.17	41	1008	0.338	ug/l #	28
43) Isopropyl Acetate	6.46	43	183684	24.782	ug/l	99
44) Trichloroethene	7.21	130	91	Below Cal		4
48) Methyl methacrylate	7.69	41	7064	1.838	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	3765	0.734	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1306	0.287	ug/l #	63
59) 2-Hexanone	9.54	43	11031	2.672	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	84587	22.483	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	84587	68.314	ug/l #	10

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

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QLast Update : Fri Oct 12 11:28:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

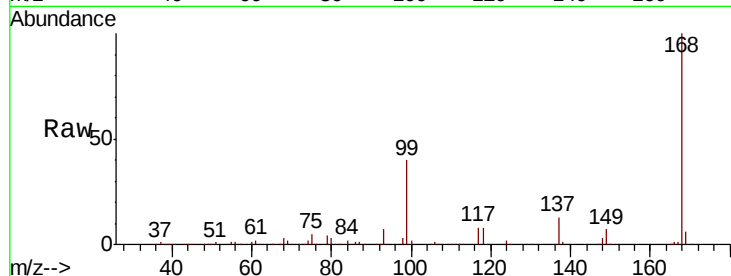
PL-03-101718-C

Tot Ion:168 Resp: 304838

Ion Ratio Lower Upper

168 100

99 39.8 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

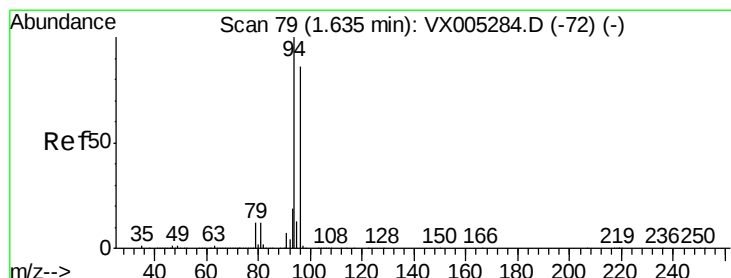
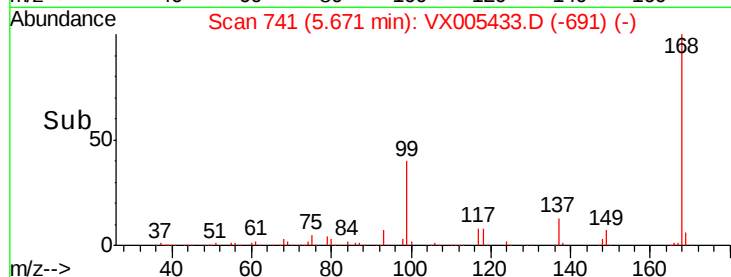
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.902 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005433.D

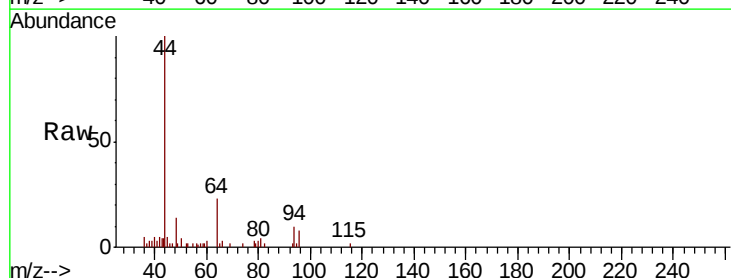
Acq: 18 Oct 2018 16:36

Tgt Ion: 94 Resp: 635

Ion Ratio Lower Upper

94 100

96 82.6 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

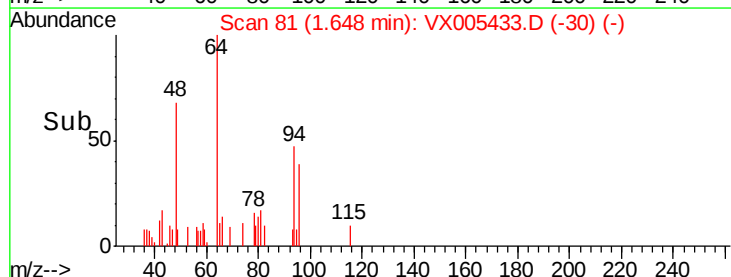
300

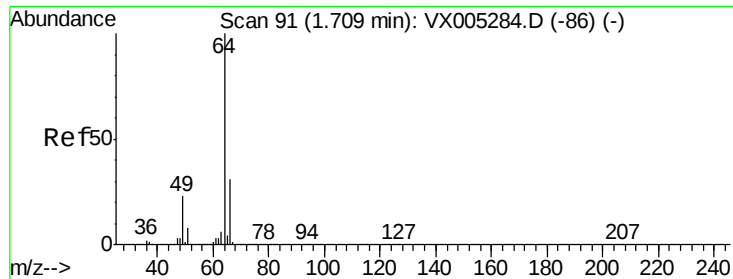
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.901 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.09 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

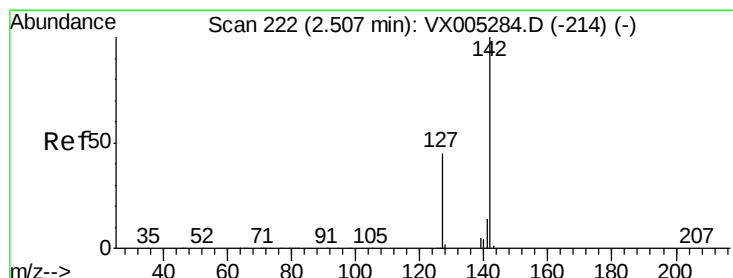
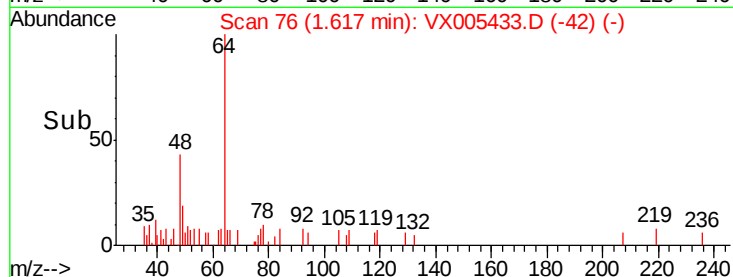
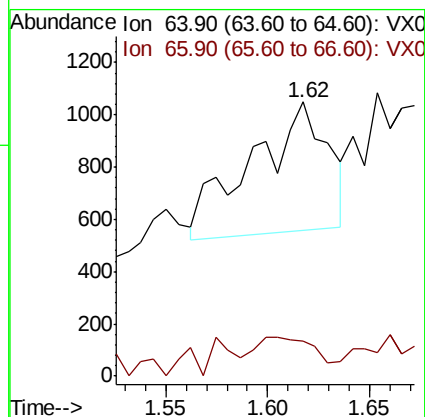
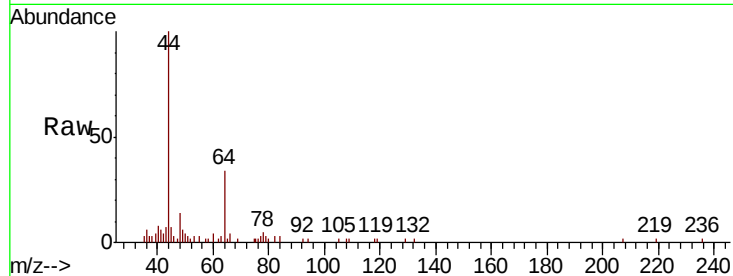
PL-03-101718-C

Tot Ion: 64 Resp: 1296

Ion Ratio Lower Upper

64 100

66 16.6 24.6 36.8#



#10

Methyl Iodide

Concen: 2.583 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

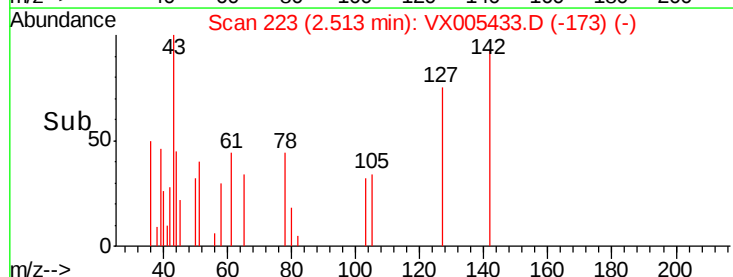
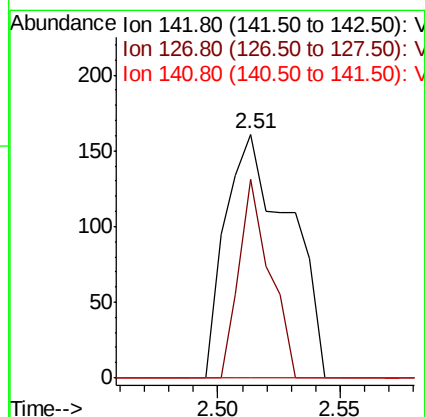
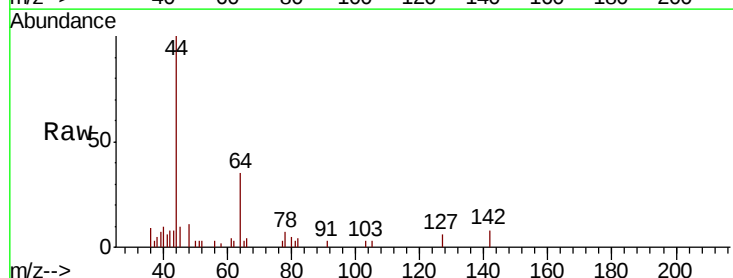
Tgt Ion: 142 Resp: 292

Ion Ratio Lower Upper

142 100

127 39.4 33.8 50.6

141 0.0 11.4 17.0#



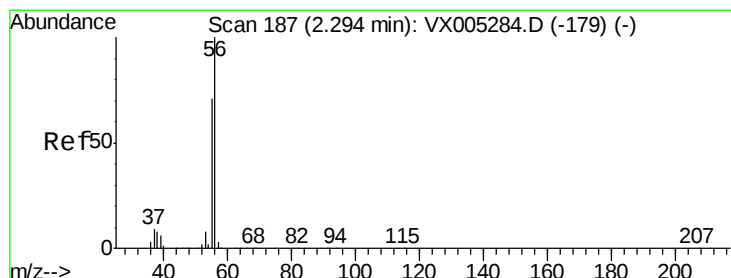
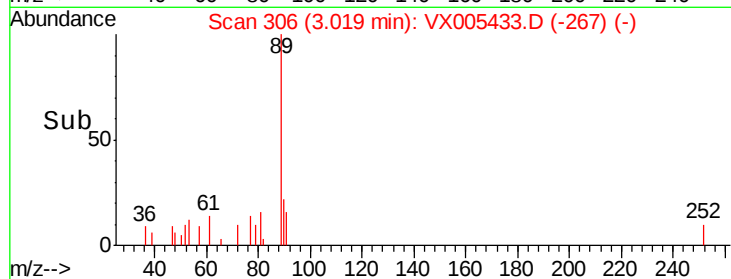
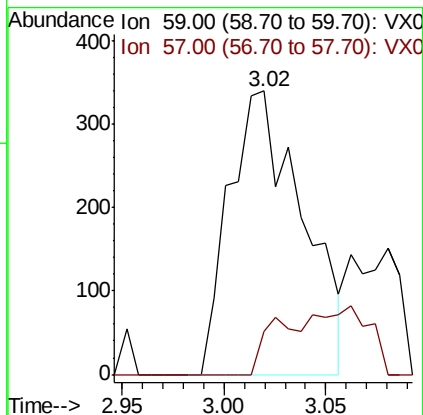
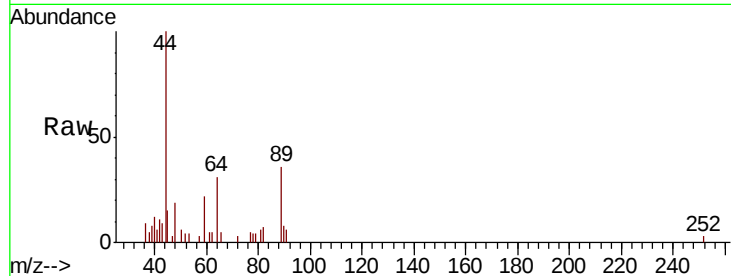


#11

Tert butyl alcohol
Concen: 0.889 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

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

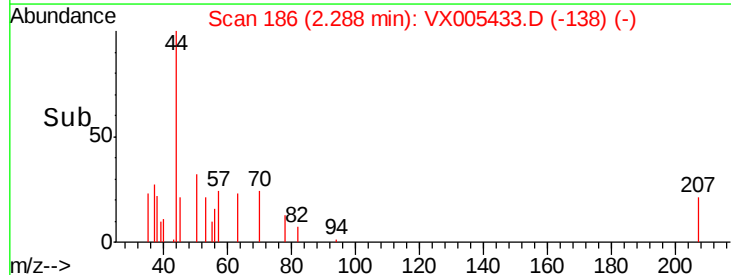
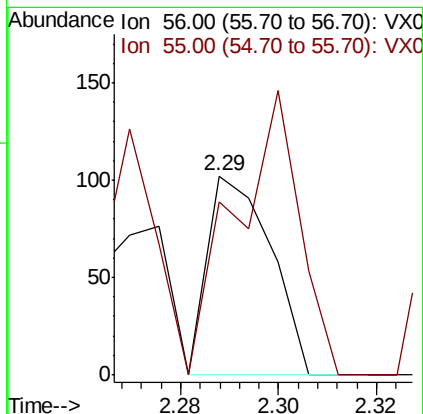
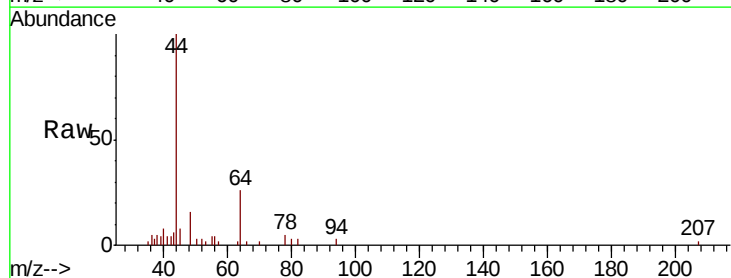
Tot Ion: 59 Resp: 848
Ion Ratio Lower Upper
59 100
57 9.7 8.2 12.4

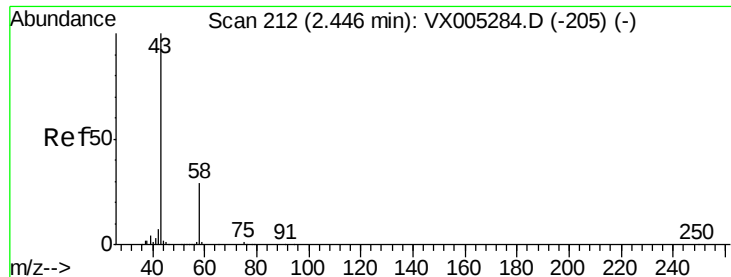


#13

Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

Tgt Ion: 56 Resp: 92
Ion Ratio Lower Upper
56 100
55 144.6 54.7 82.1#





#16

Acetone

Concen: 6.568 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

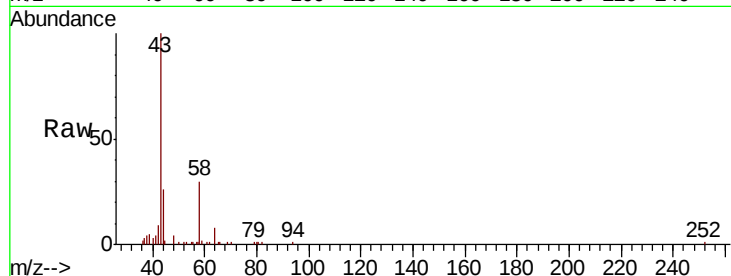
PL-03-101718-C

Tot Ion: 43 Resp: 12847

Ion Ratio Lower Upper

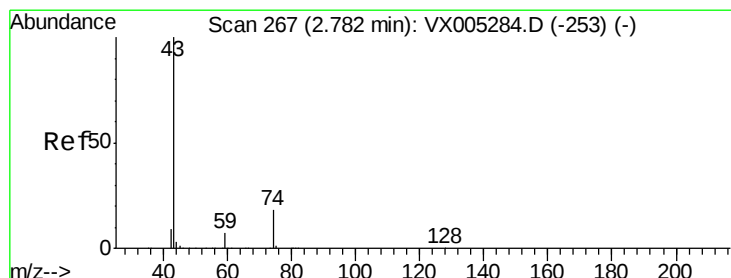
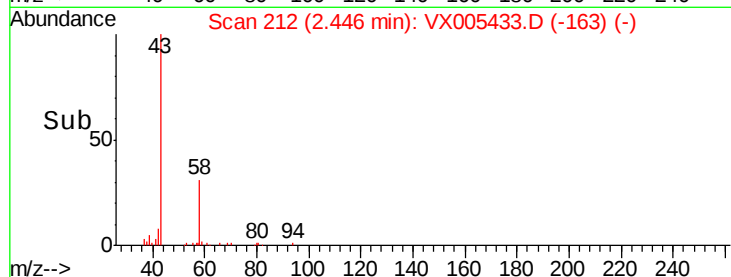
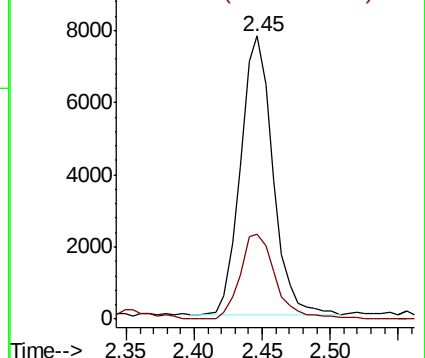
43 100

58 30.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.942 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005433.D

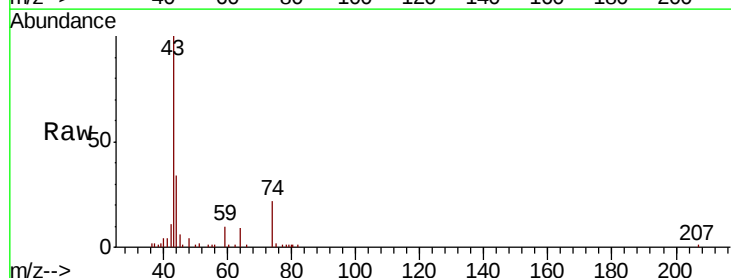
Acq: 18 Oct 2018 16:36

Tgt Ion: 43 Resp: 10805

Ion Ratio Lower Upper

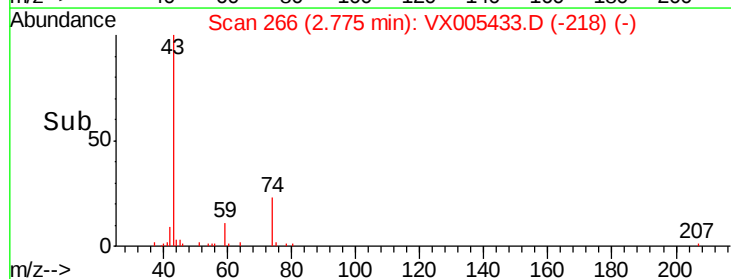
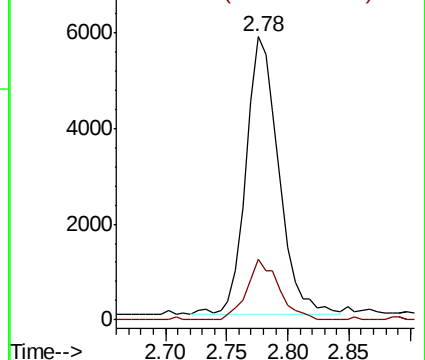
43 100

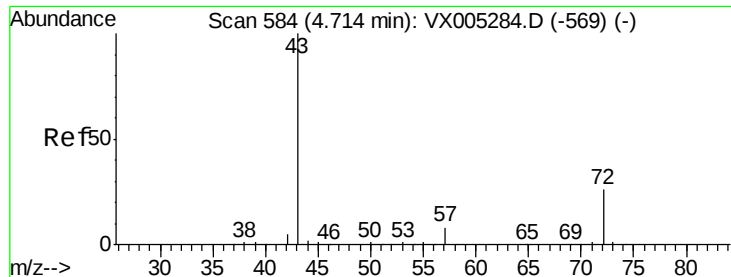
74 21.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 1.087 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

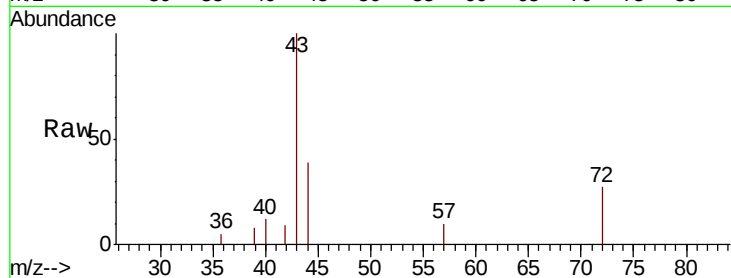
PL-03-101718-C

Tot Ion: 43 Resp: 3112

Ion Ratio Lower Upper

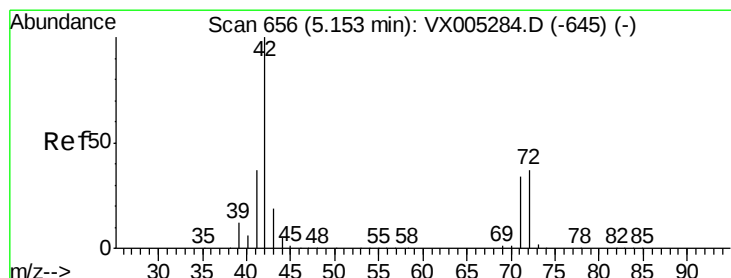
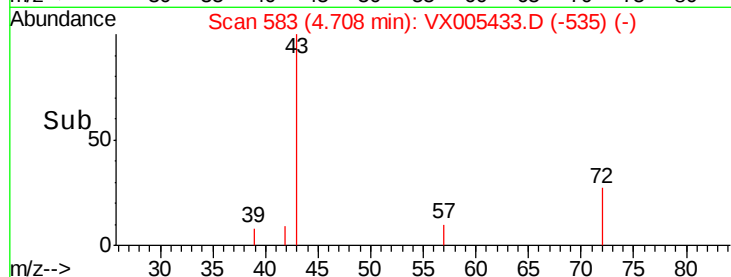
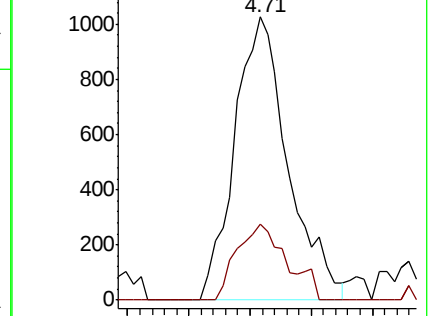
43 100

72 26.9 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.770 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

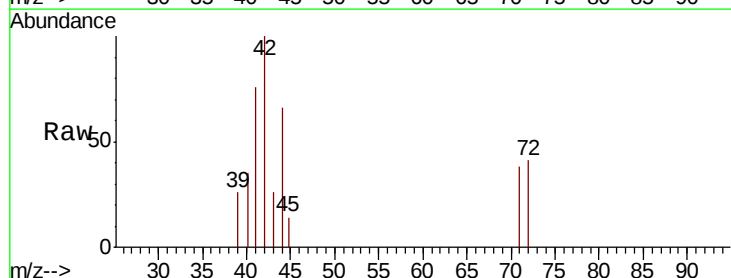
Tgt Ion: 42 Resp: 1405

Ion Ratio Lower Upper

42 100

72 33.7 37.4 56.0#

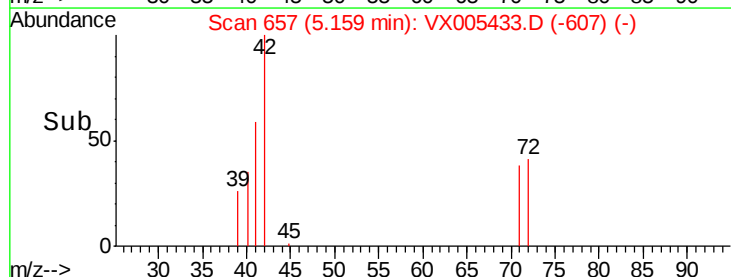
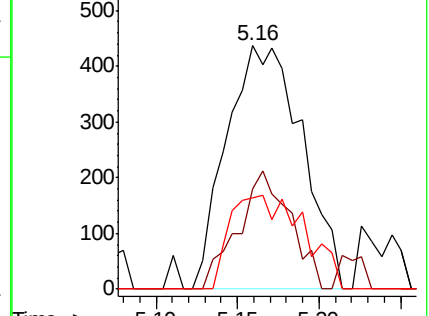
71 38.0 34.5 51.7

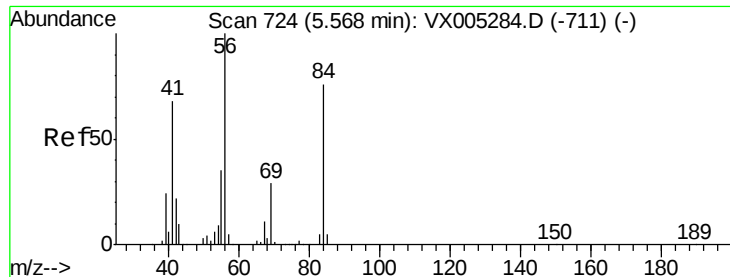


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

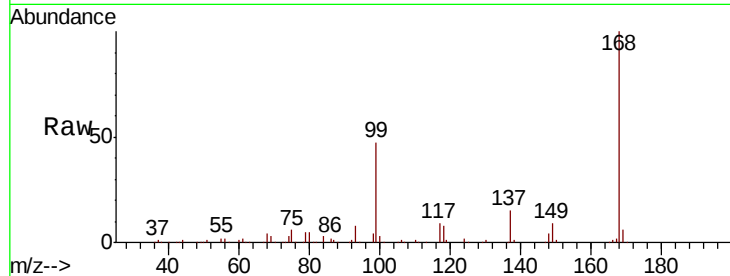




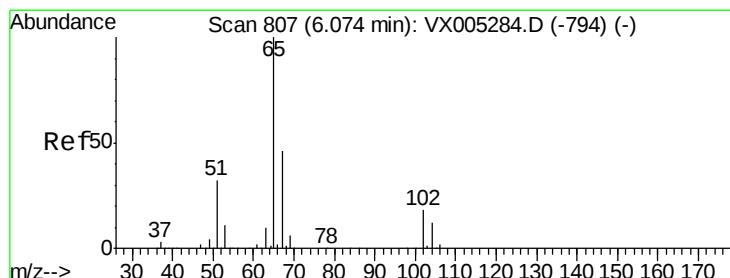
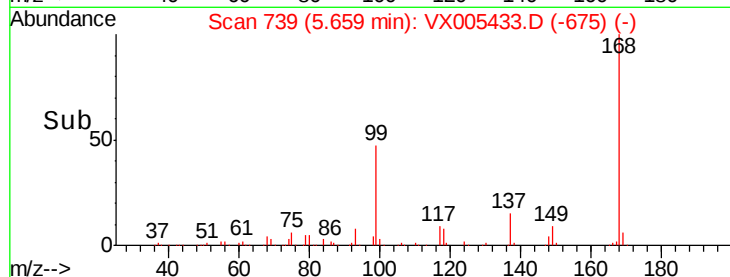
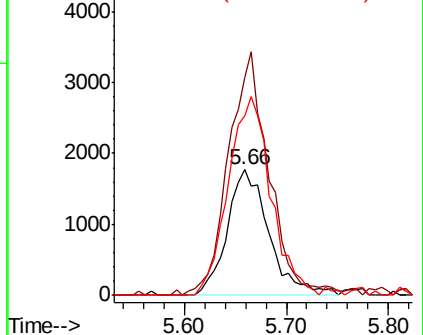
#31
Cyclohexane
Concen: 1.080 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

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

Tot Ion: 56 Resp: 5023
Ion Ratio Lower Upper
56 100
69 170.1 25.4 38.2#
84 143.6 71.4 107.2#

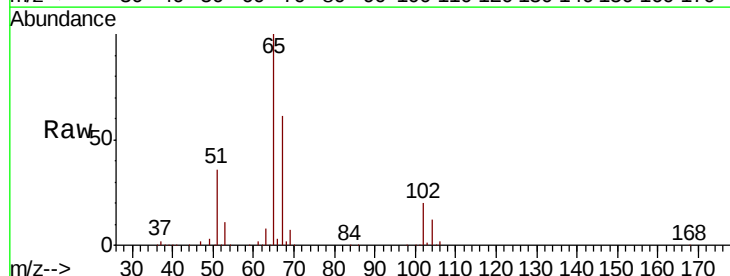


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

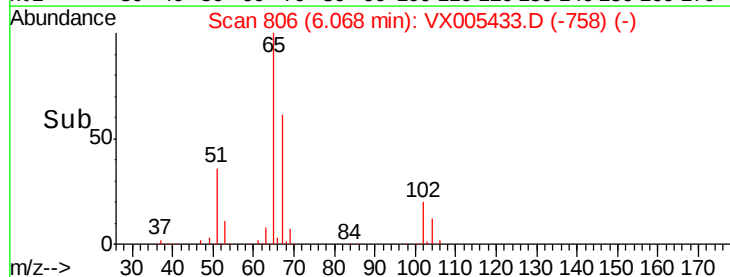
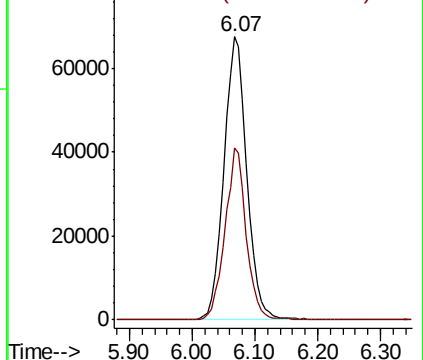


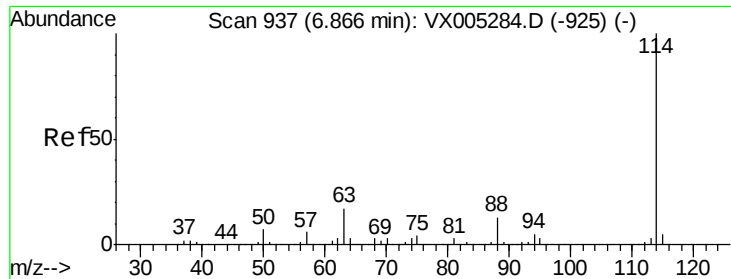
#33
1,2-Dichloroethane-d4
Concen: 50.320 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

Tgt Ion: 65 Resp: 170246
Ion Ratio Lower Upper
65 100
67 56.3 0.0 106.8



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

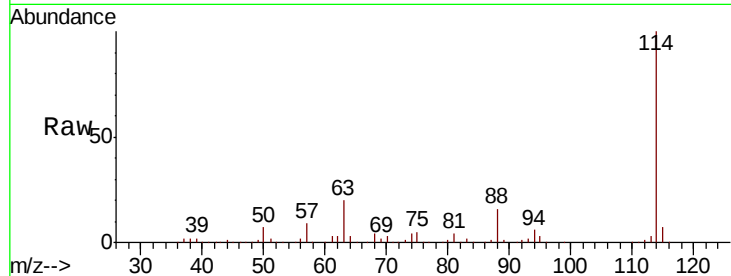




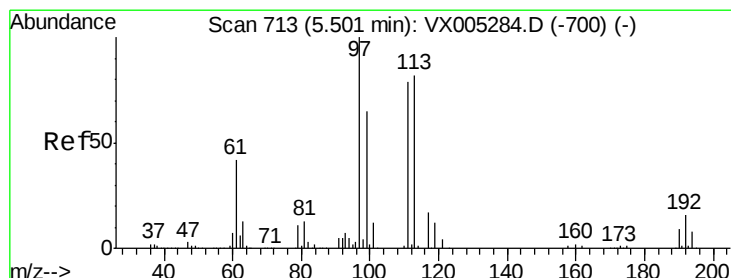
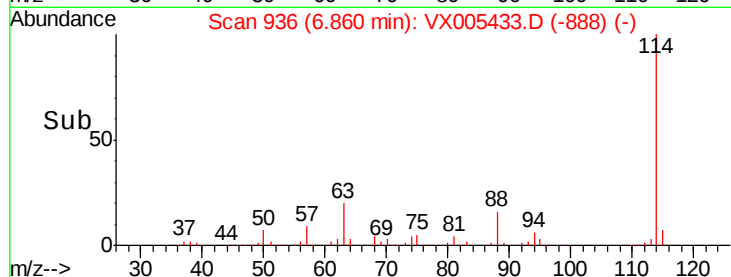
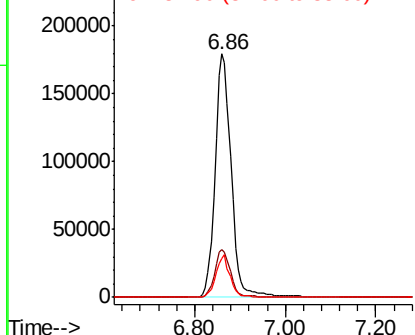
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

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

Tot Ion:114 Resp: 446738
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 16.0 0.0 30.4

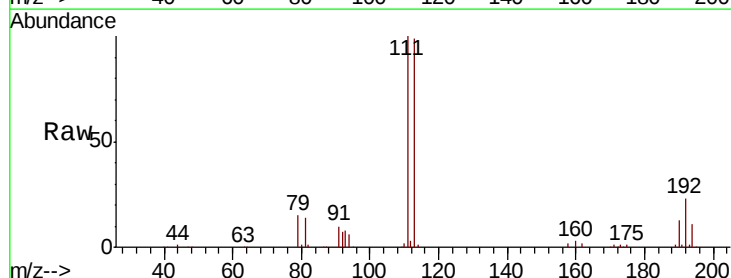


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

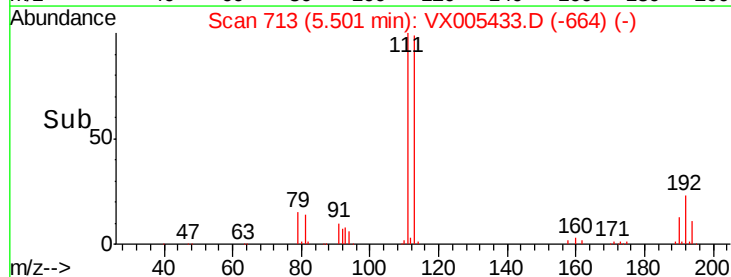
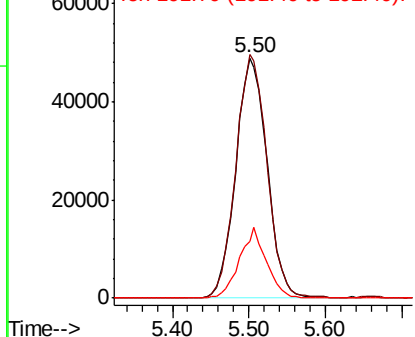


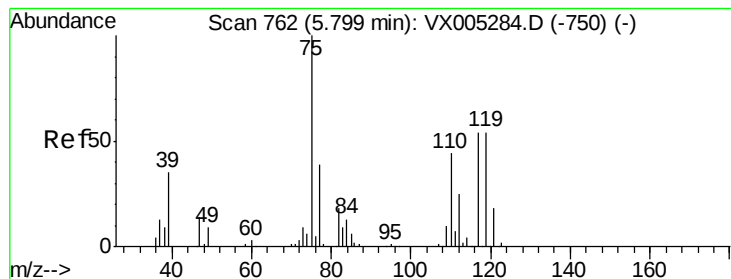
#35
 Dibromofluoromethane
 Concen: 46.915 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

Tgt Ion:113 Resp: 138814
 Ion Ratio Lower Upper
 113 100
 111 101.0 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: 4.493 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-C

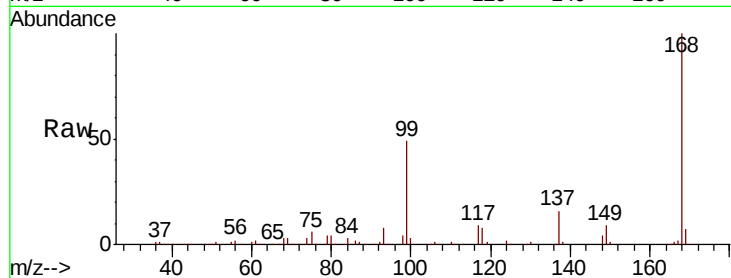
Tot Ion: 75 Resp: 19441

Ion Ratio Lower Upper

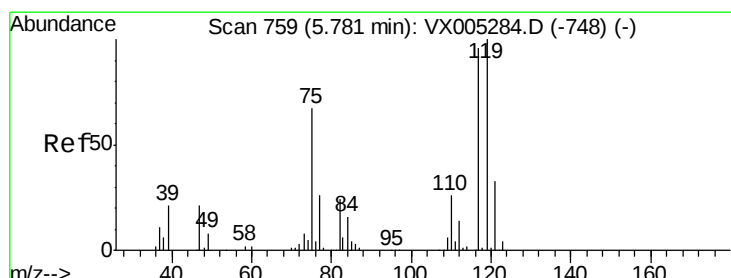
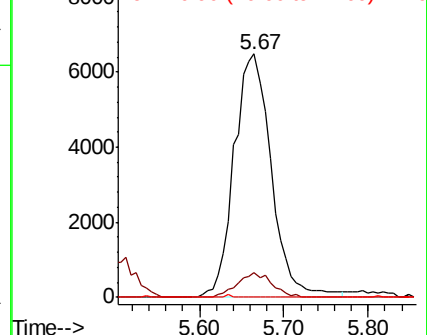
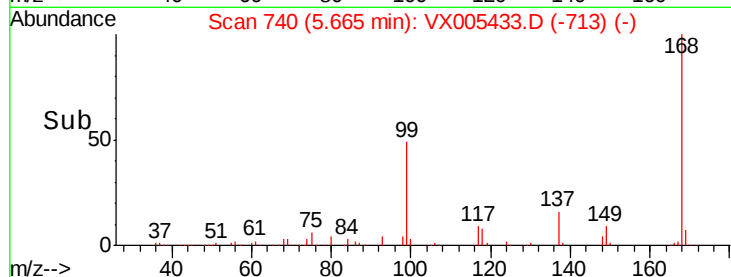
75 100

110 9.3 18.0 54.0#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX005433.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.053 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

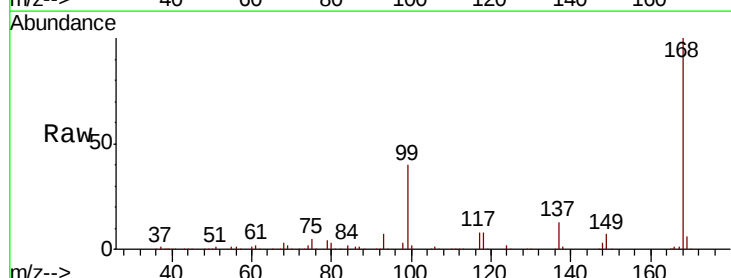
Tgt Ion: 117 Resp: 26315

Ion Ratio Lower Upper

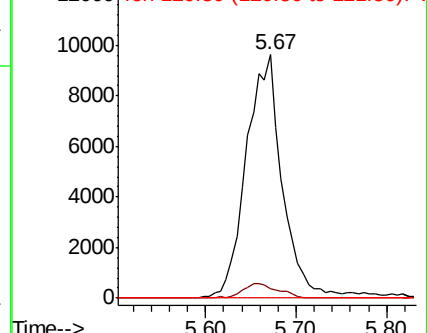
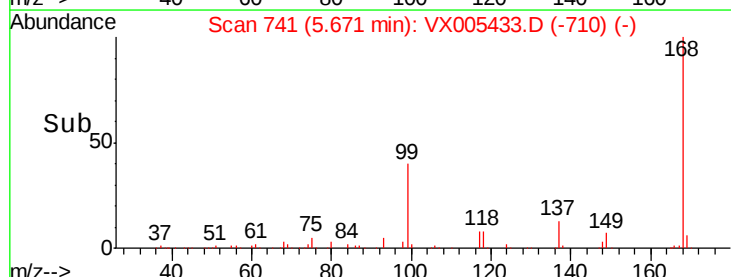
117 100

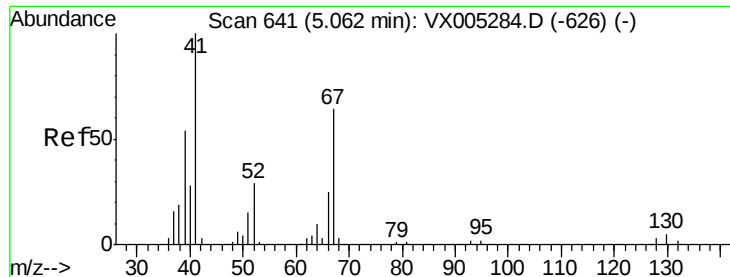
119 3.8 78.8 118.2#

121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): VX005433.D (-710) (-)





#41

Methacrylonitrile

Concen: 0.338 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampled :

PL-03-101718-C

Tot Ion: 41 Resp: 1008

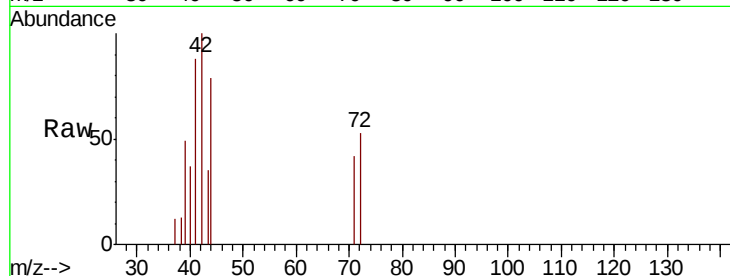
Ion Ratio Lower Upper

41 100

39 10.3 42.4 63.6#

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

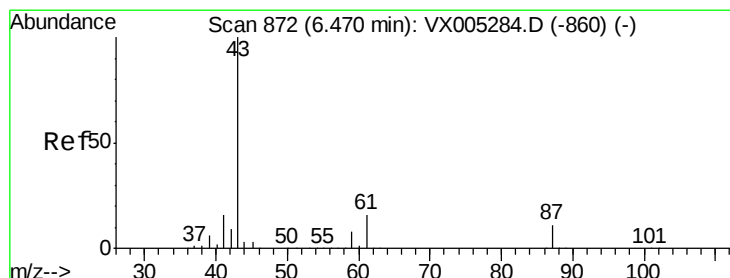
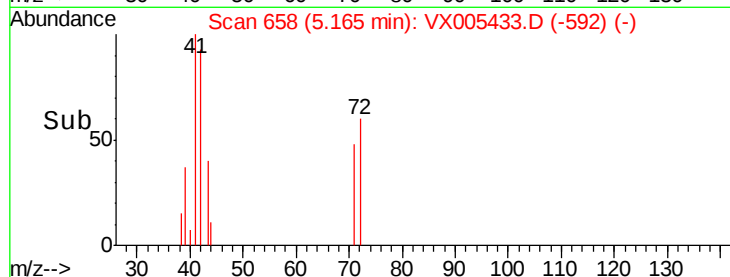
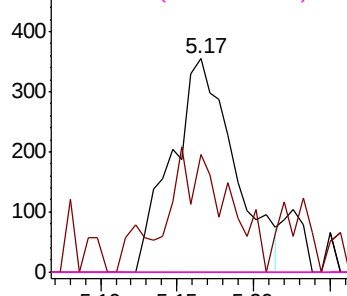


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#43

Isopropyl Acetate

Concen: 24.782 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

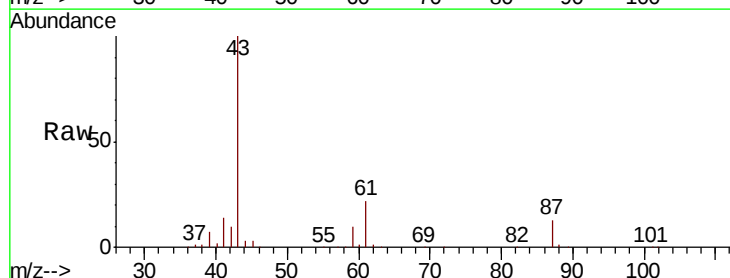
Tgt Ion: 43 Resp: 183684

Ion Ratio Lower Upper

43 100

61 20.9 17.0 25.4

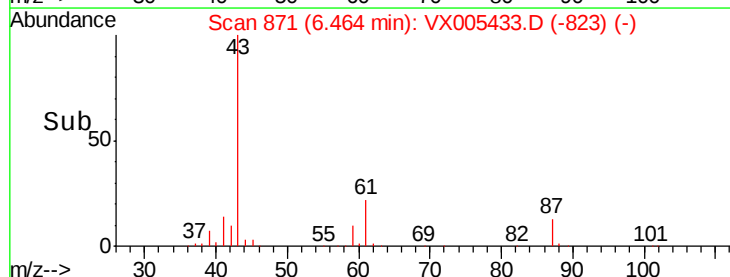
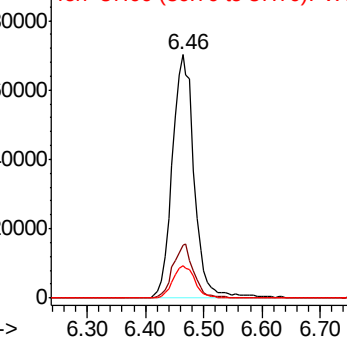
87 13.4 11.4 17.2

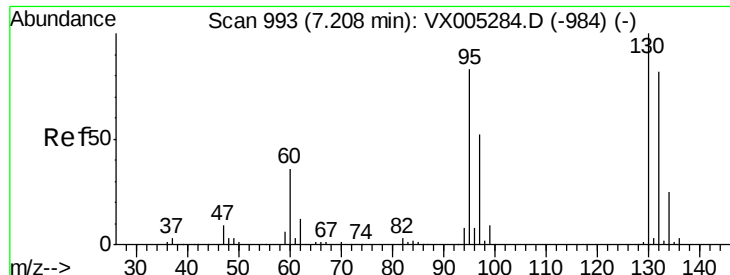


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

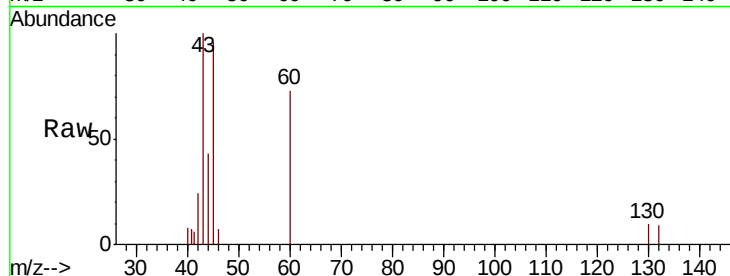




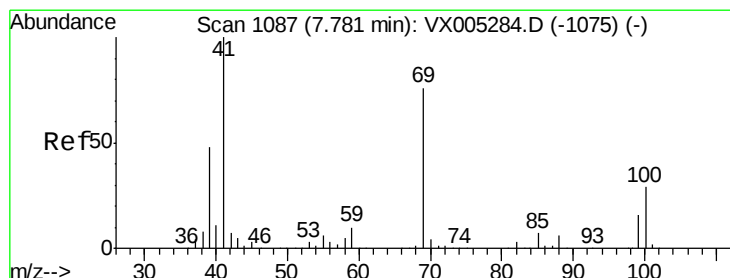
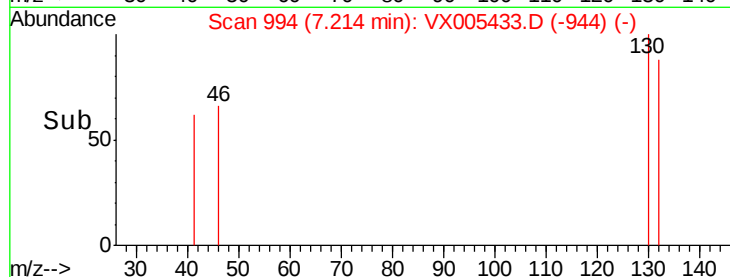
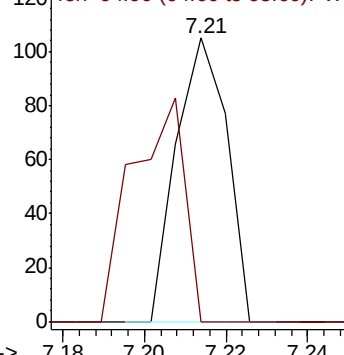
#44
 Trichloroethene
 Concen: Below Cal
 RT: 7.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

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

Tot Ion:130 Resp: 91
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 181.6

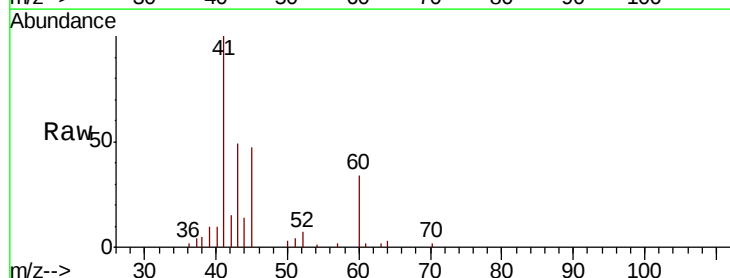


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

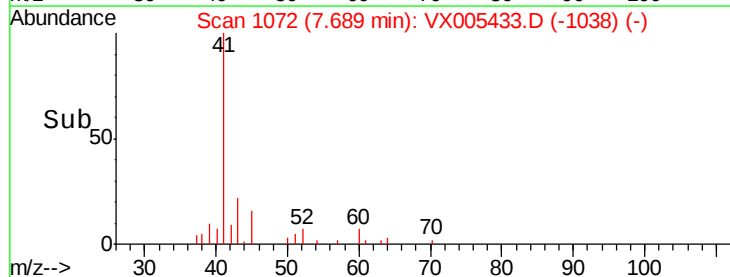
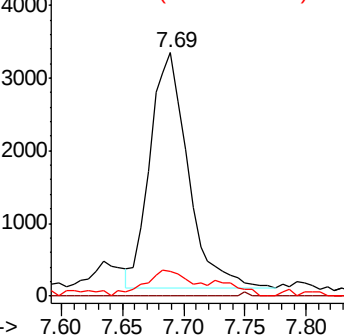


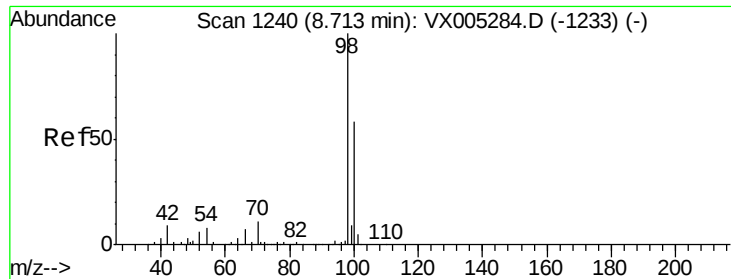
#48
 Methyl methacrylate
 Concen: 1.838 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

Tgt Ion: 41 Resp: 7064
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 13.3 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

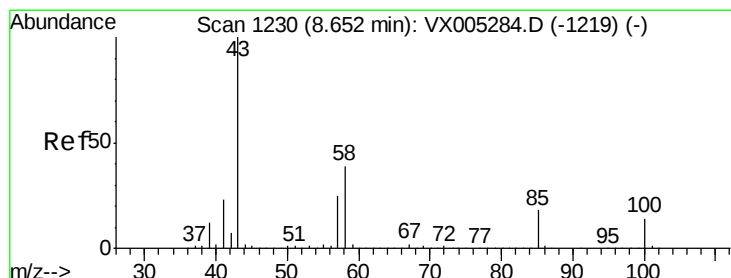
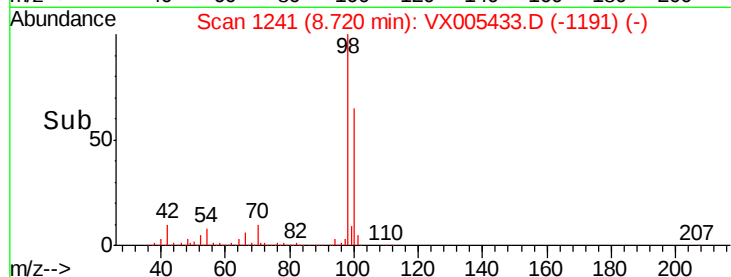
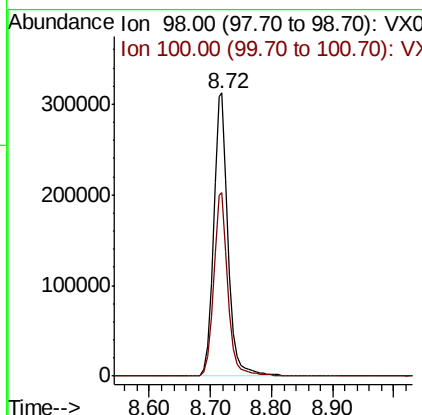
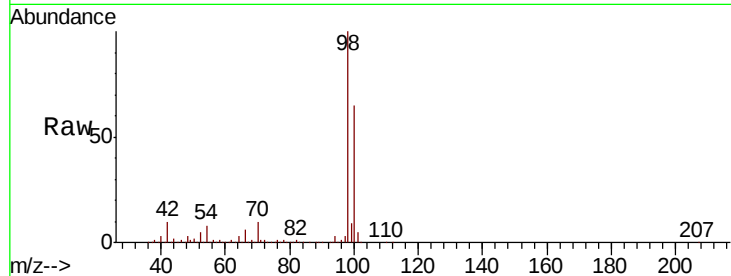




#50
Toluene-d8
Concen: 51.684 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

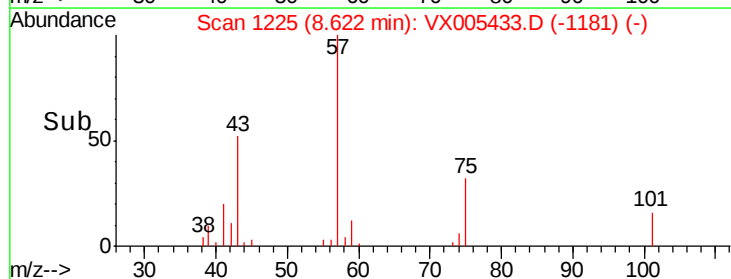
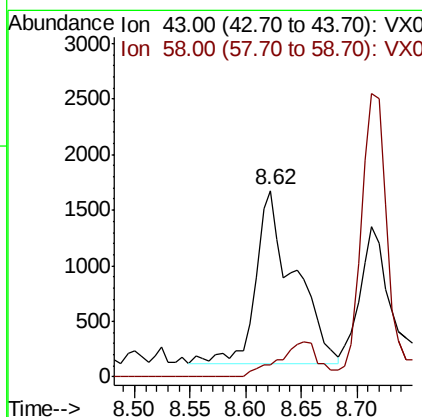
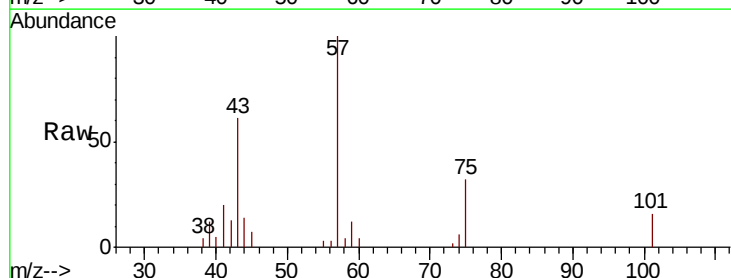
Instrument :
MSVOA_X
ClientSampleId :
PL-03-101718-C

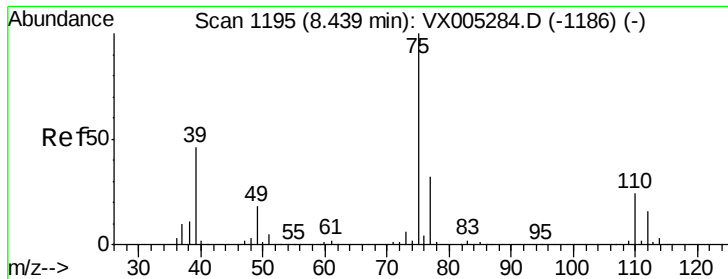
Tot Ion: 98 Resp: 525003
Ion Ratio Lower Upper
98 100
100 64.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.734 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

Tgt Ion: 43 Resp: 3765
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

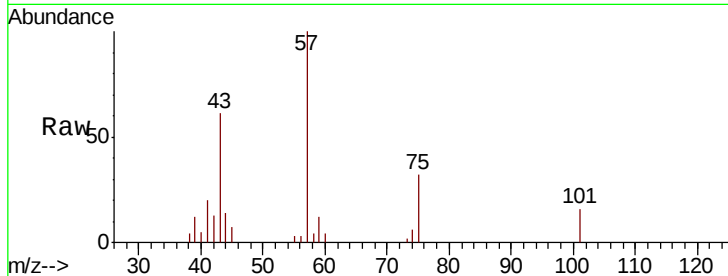




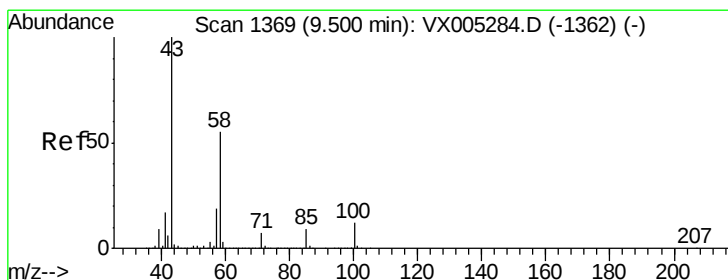
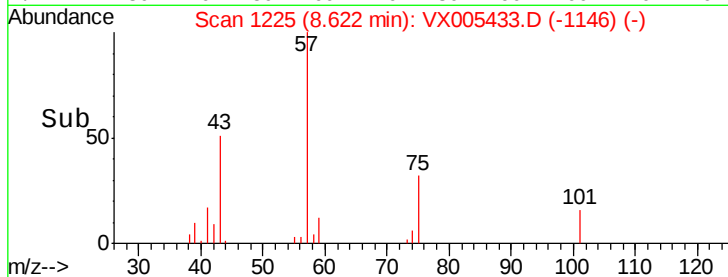
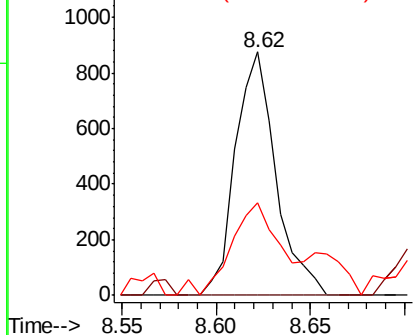
#54
 cis-1,3-Dichloropropene
 Concen: 0.287 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

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

Tot Ion: 75 Resp: 1306
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 31.4 36.4 54.6#

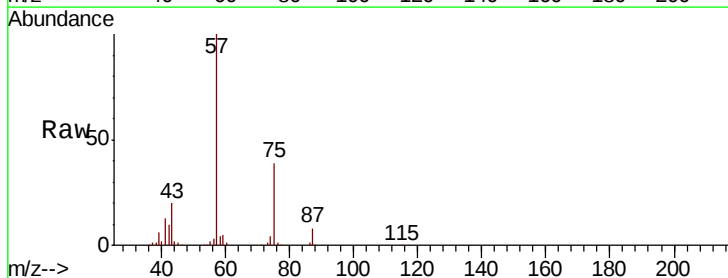


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

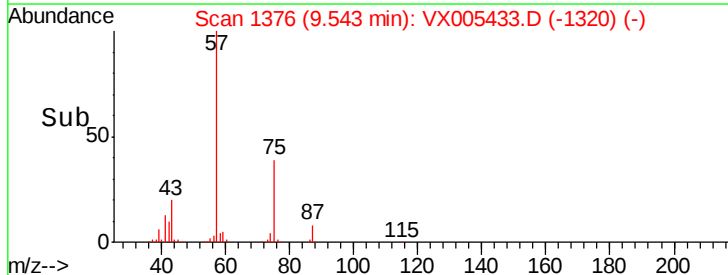
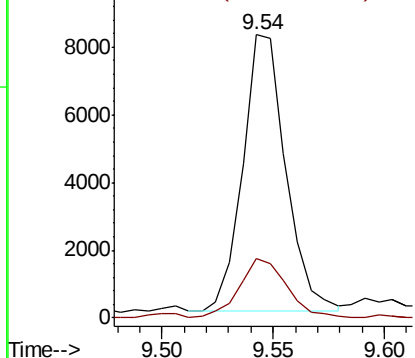


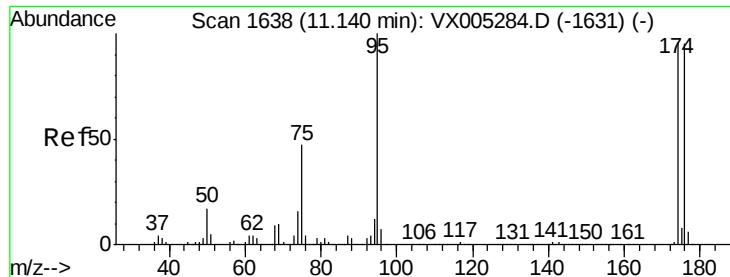
#59
 2-Hexanone
 Concen: 2.672 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX005433.D
 Acq: 18 Oct 2018 16:36

Tgt Ion: 43 Resp: 11031
 Ion Ratio Lower Upper
 43 100
 58 23.8 29.0 87.0#



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

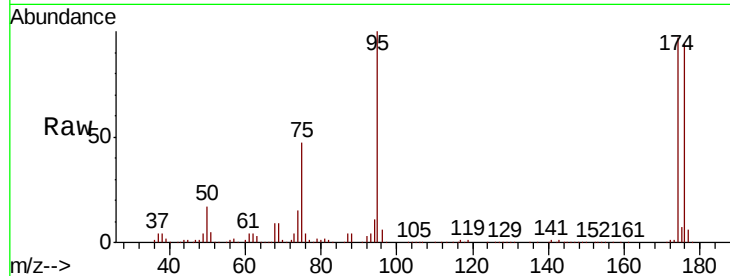




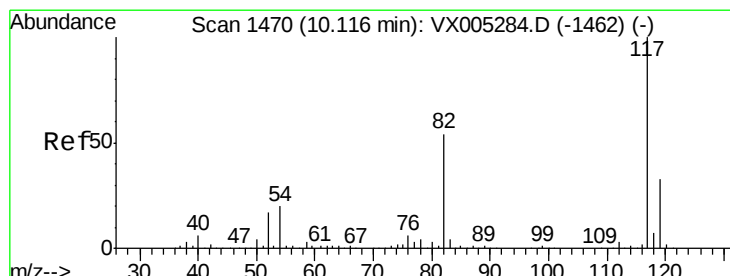
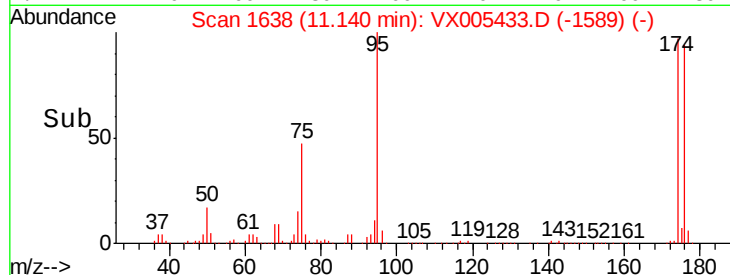
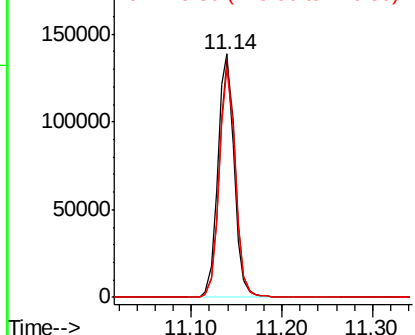
#62
4-Bromofluorobenzene
Concen: 45.856 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

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

Tot Ion: 95 Resp: 174984
Ion Ratio Lower Upper
95 100
174 96.0 0.0 185.2
176 92.5 0.0 178.6

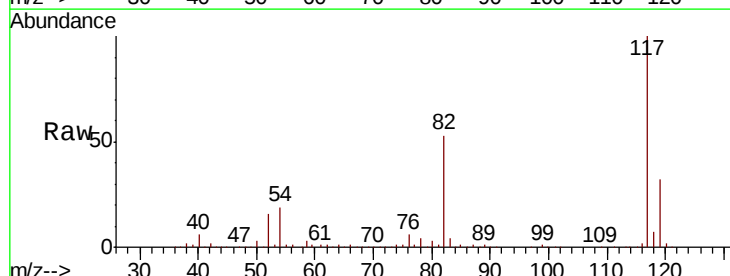


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

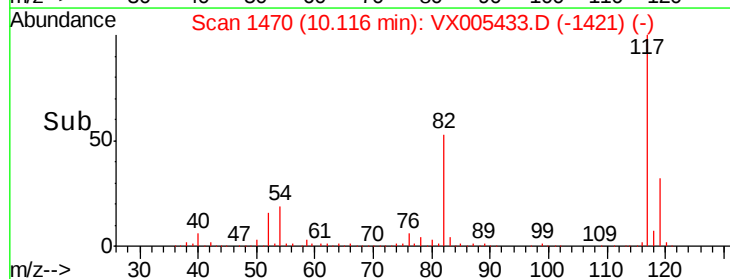
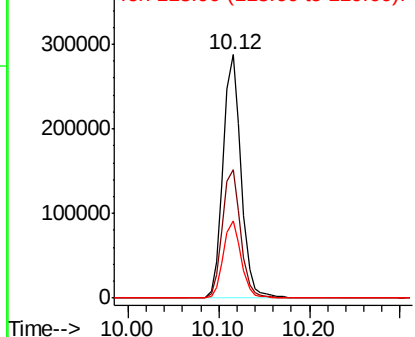


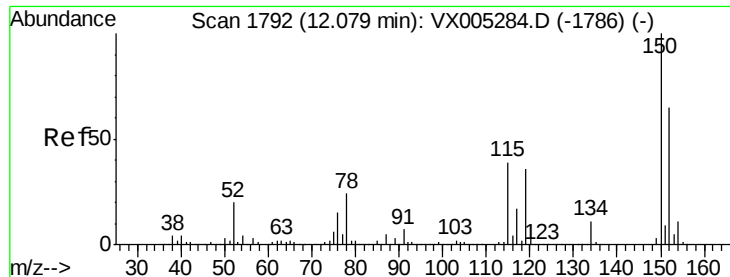
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005433.D
Acq: 18 Oct 2018 16:36

Tgt Ion: 117 Resp: 399344
Ion Ratio Lower Upper
117 100
82 52.6 47.8 71.6
119 31.7 29.3 43.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-C

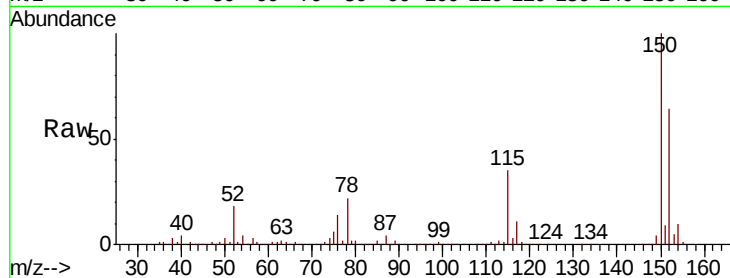
Tot Ion:152 Resp: 193960

Ion Ratio Lower Upper

152 100

115 53.9 39.0 117.0

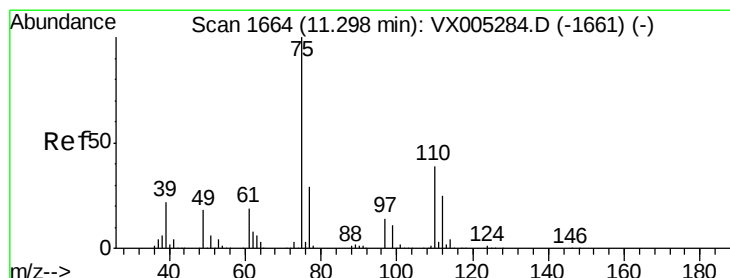
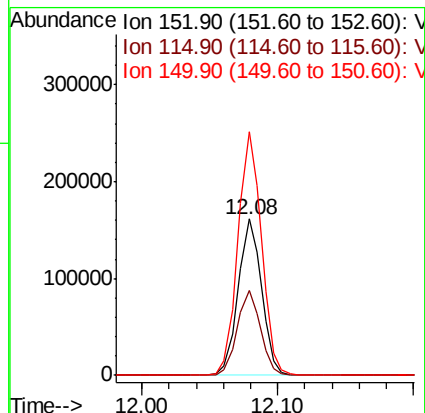
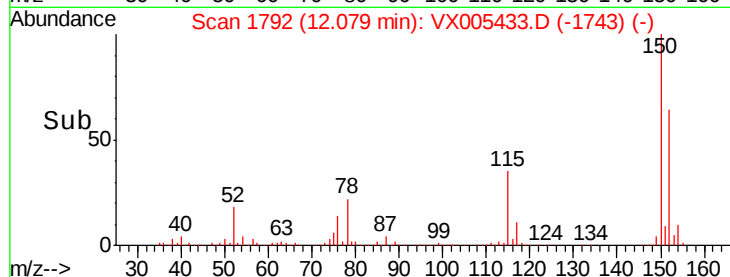
150 156.2 0.0 351.0



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: 22.483 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005433.D

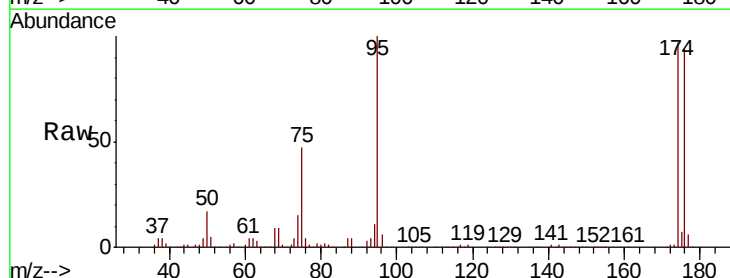
Acq: 18 Oct 2018 16:36

Tgt Ion: 75 Resp: 84587

Ion Ratio Lower Upper

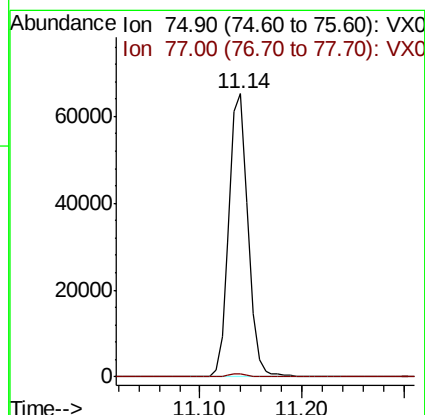
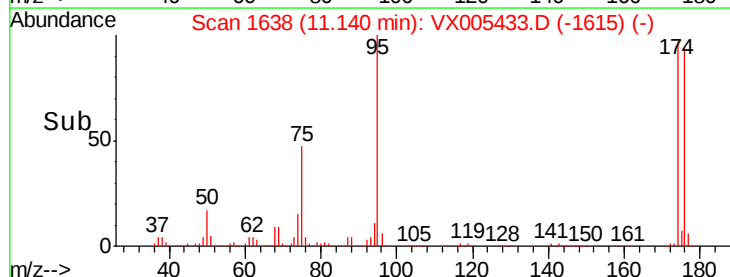
75 100

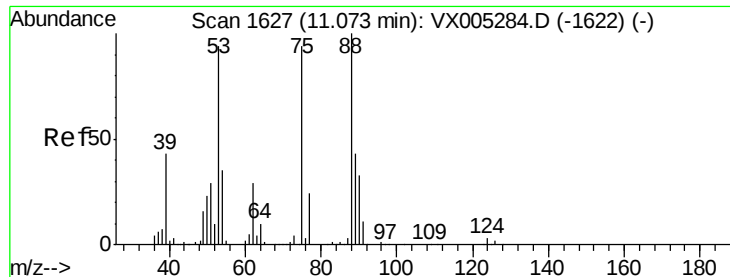
77 1.2 20.2 60.6#



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: 68.314 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005433.D

Acq: 18 Oct 2018 16:36

Instrument :

MSVOA_X

ClientSampleId :

PL-03-101718-C

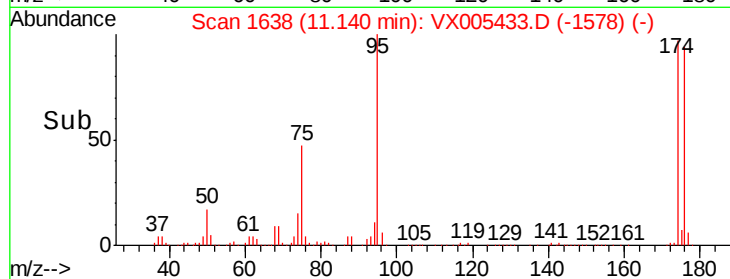
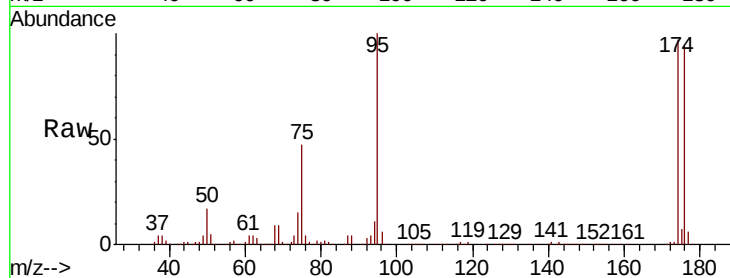
Tot Ion: 75 Resp: 84587

Ion Ratio Lower Upper

75 100

53 0.1 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

