

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004631.D
 Acq On : 17 Sep 2018 20:52
 Operator : JC/MD
 Sample : PB112894ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:56:34 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	5.67	168	242479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355794	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198003	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	156236	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.50	113	145503	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	
50) Toluene-d8	8.72	98	489650	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
62) 4-Bromofluorobenzene	11.14	95	167636	43.01	ug/l	0.00
Spiked Amount			Recovery	=	86.02%	

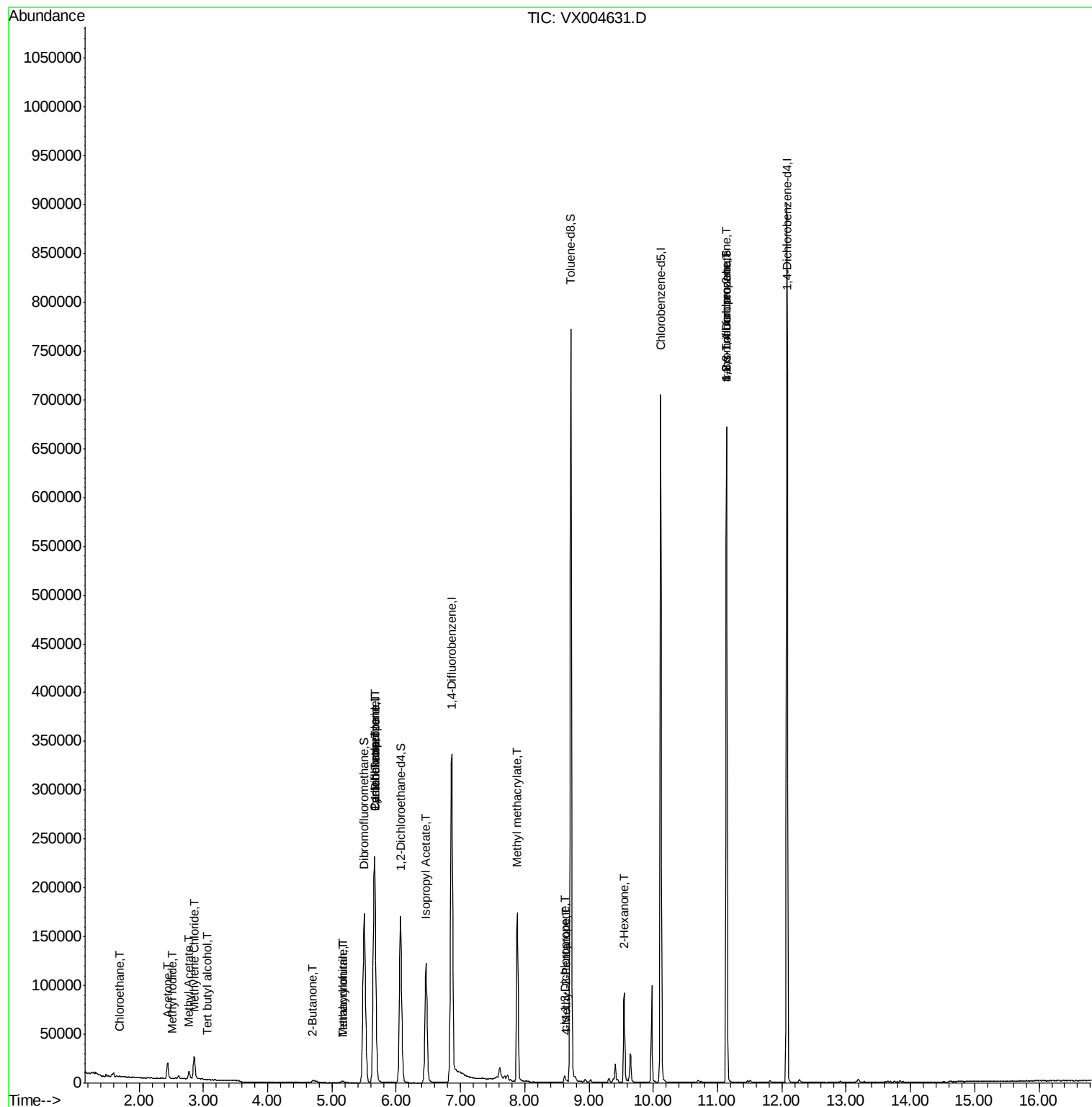
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	304	Below Cal		93
6) Chloroethane	1.70	64	5349	2.58	ug/l #	44
10) Methyl Iodide	2.51	142	138	4.30	ug/l #	41
11) Tert butyl alcohol	3.07	59	333	0.45	ug/l #	72
16) Acetone	2.45	43	18131	11.88	ug/l	98
18) Methyl Acetate	2.78	43	9882	2.31	ug/l	96
20) Methylene Chloride	2.85	84	11138	3.56	ug/l	94
25) 2-Butanone	4.70	43	4603	1.90	ug/l	94
29) Tetrahydrofuran	5.17	42	1703	1.16	ug/l #	85
31) Cyclohexane	5.66	56	4001	0.88	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15998	3.70	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20127	4.77	ug/l #	16
41) Methacrylonitrile	5.17	41	962	0.36	ug/l #	38
43) Isopropyl Acetate	6.46	43	150327	23.04	ug/l	99
48) Methyl methacrylate	7.88	41	15782	4.89	ug/l #	40
51) 4-Methyl-2-Pentanone	8.65	43	1116	0.24	ug/l #	59
54) cis-1,3-Dichloropropene	8.62	75	1145	0.26	ug/l #	64
59) 2-Hexanone	9.55	43	10405	2.95	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	78944	19.82	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	78944	63.17	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

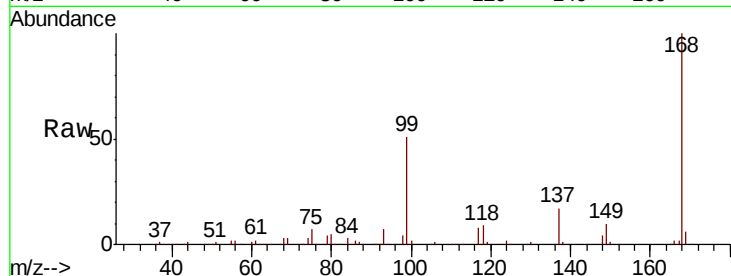
ClientSampled :

Tot Ion:168 Resp: 242479

Ion Ratio Lower Upper

168 100

99 50.7 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

80000

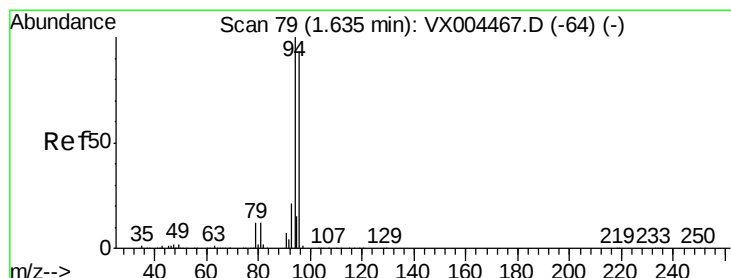
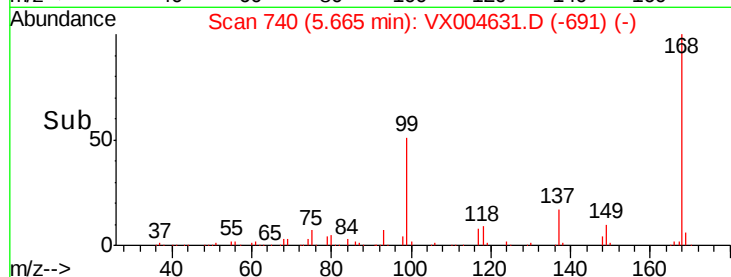
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004631.D

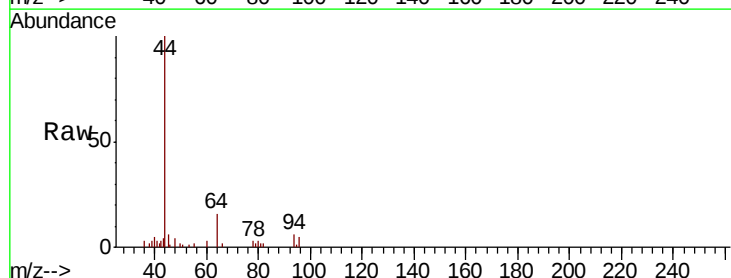
Acq: 17 Sep 2018 20:52

Tgt Ion: 94 Resp: 304

Ion Ratio Lower Upper

94 100

96 86.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

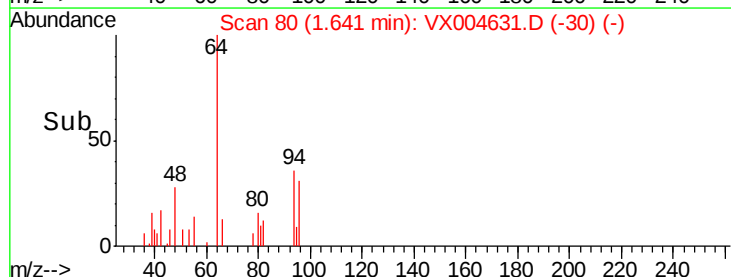
150

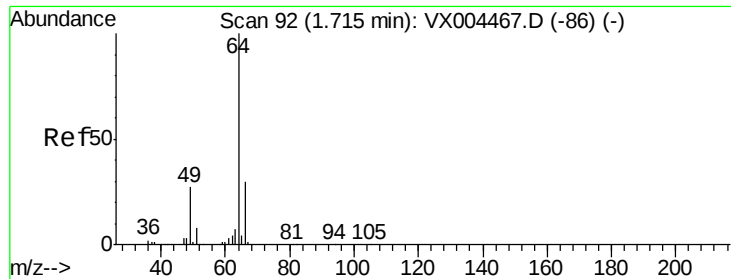
100

50

0

Time--> 1.62 1.64 1.66





#6

Chloroethane

Concen: 2.58 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

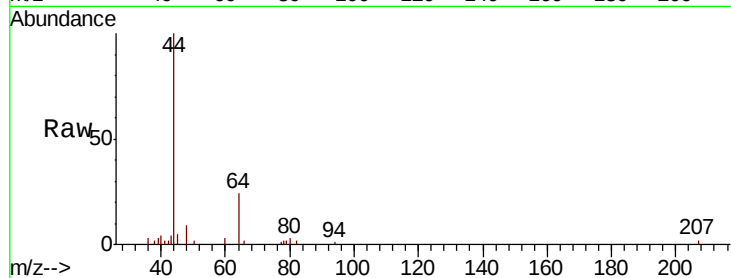
ClientSampleId :

Tot Ion: 64 Resp: 5349

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

1200

1000

800

600

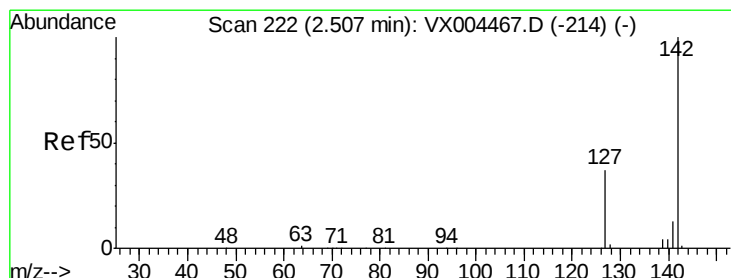
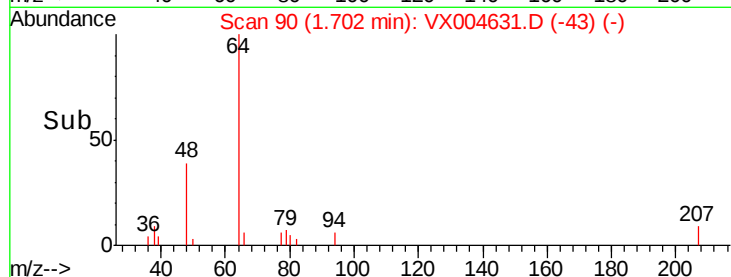
400

200

0

1.50 1.60 1.70

Time-->



#10

Methyl Iodide

Concen: 4.30 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

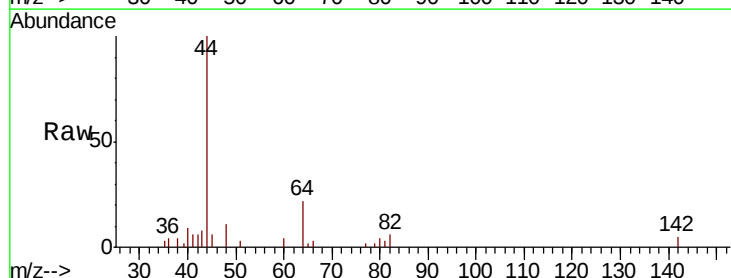
Tgt Ion: 142 Resp: 138

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

150

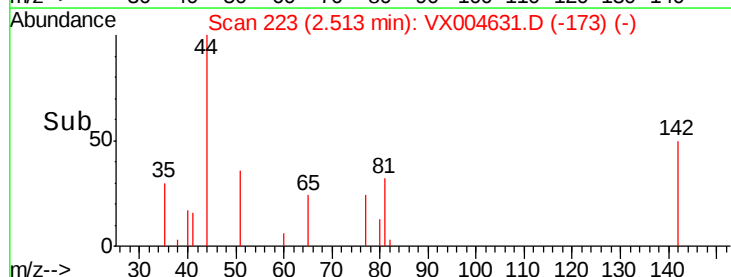
100

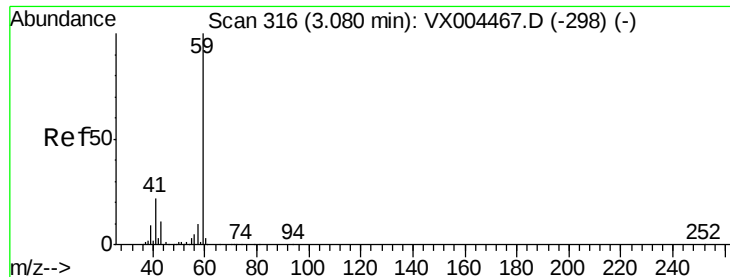
50

0

2.48 2.50 2.52 2.54

Time-->

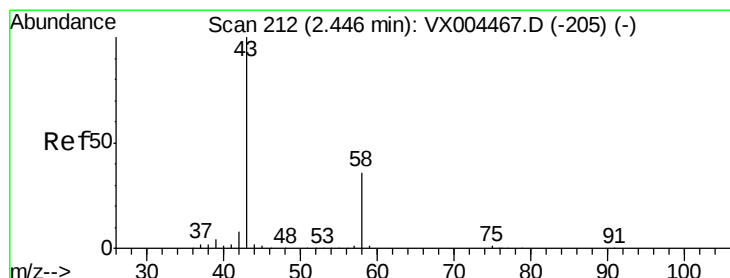
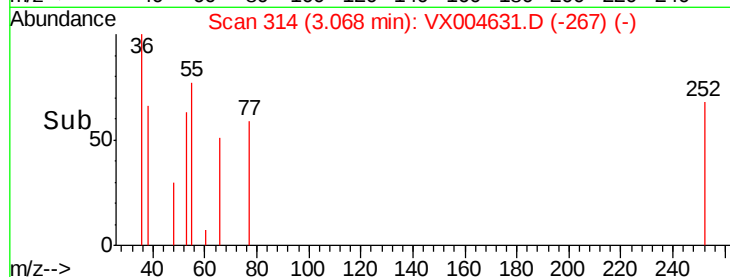
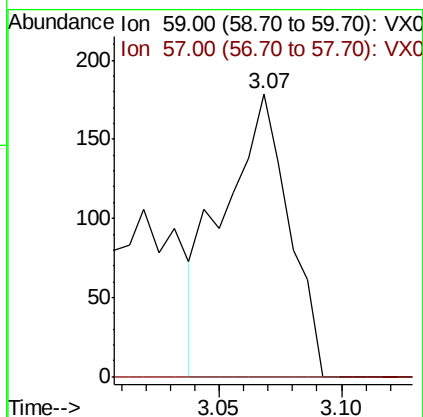
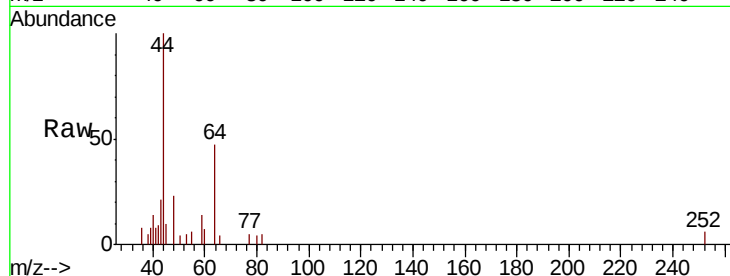




#11
Tert butvl alcohol
Concen: 0.45 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

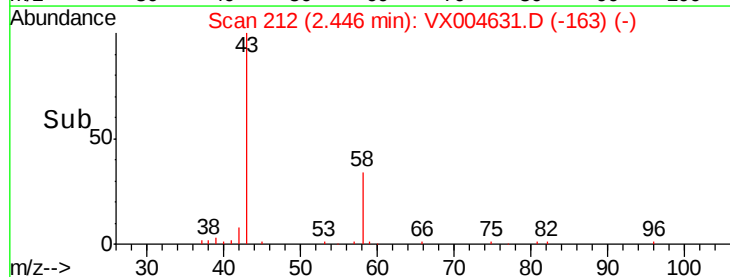
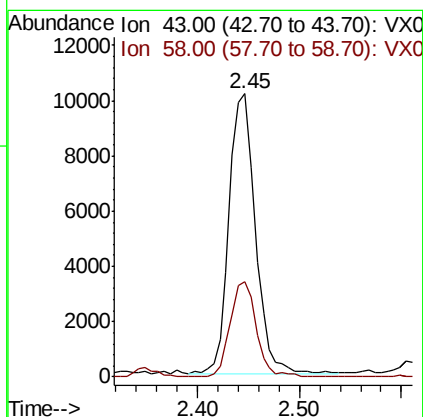
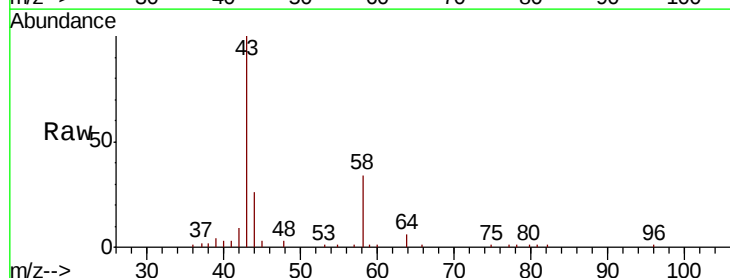
Instrument :
MSVOA_X
ClientSampled :

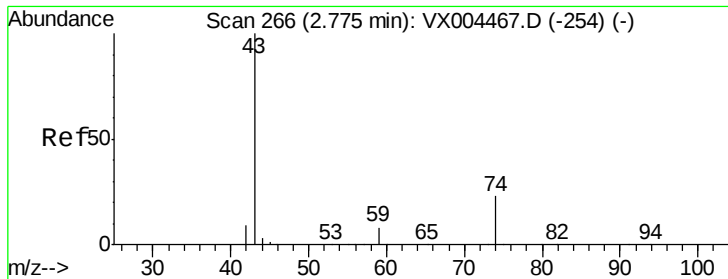
Tot Ion: 59 Resp: 333
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 11.88 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Tgt Ion: 43 Resp: 18131
Ion Ratio Lower Upper
43 100
58 34.1 26.2 39.4

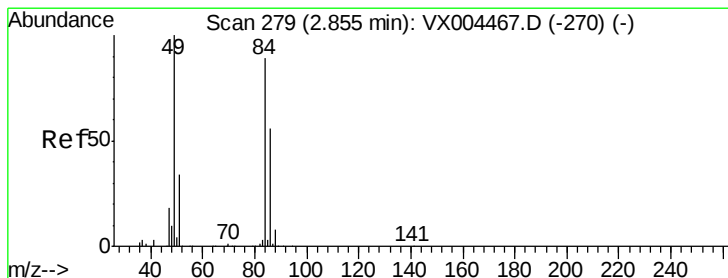
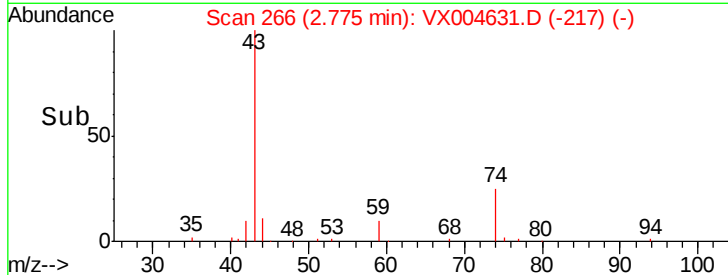
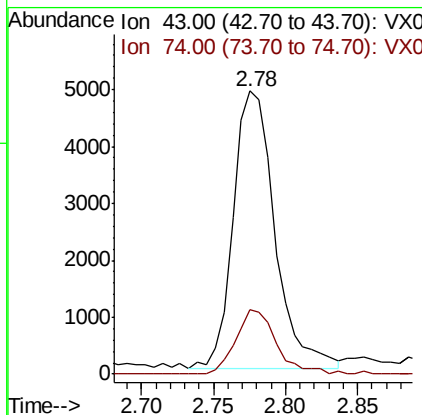
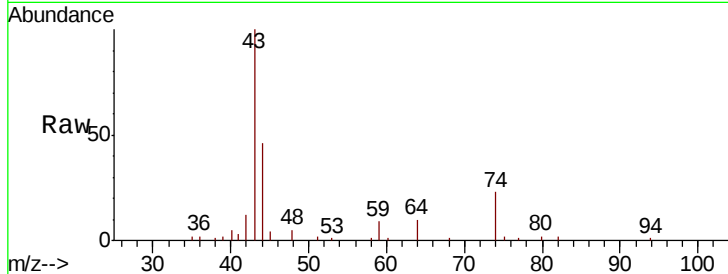




#18
Methvl Acetate
Concen: 2.31 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

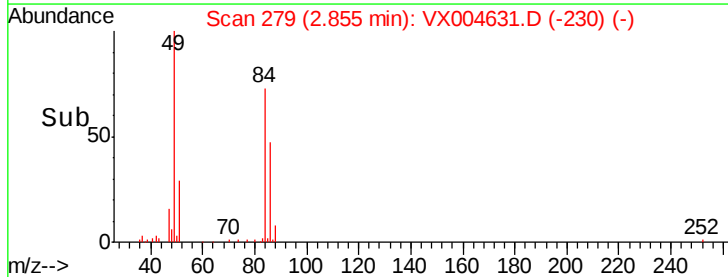
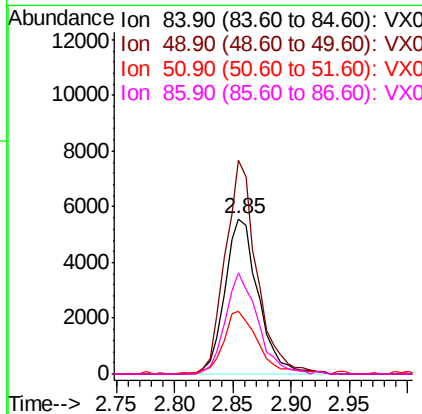
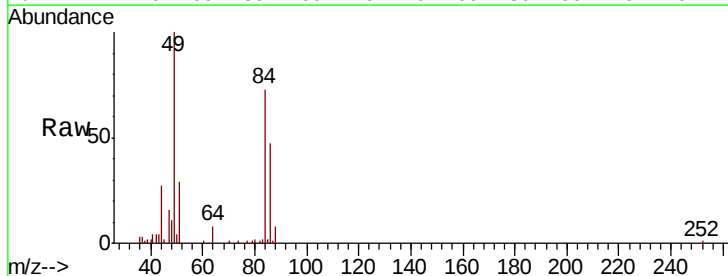
Instrument :
MSVOA_X
ClientSampled :

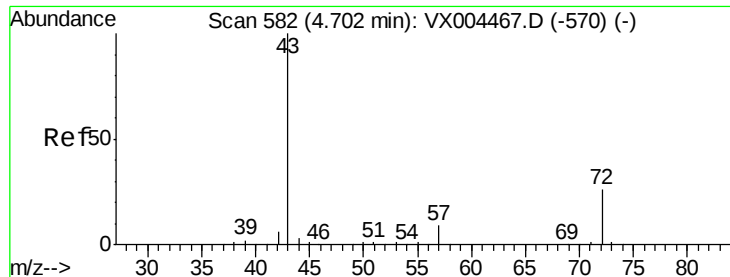
Tot Ion: 43 Resp: 9882
Ion Ratio Lower Upper
43 100
74 22.4 19.4 29.2



#20
Methylene Chloride
Concen: 3.56 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Tgt Ion: 84 Resp: 11138
Ion Ratio Lower Upper
84 100
49 137.6 101.2 151.8
51 39.1 29.5 44.3
86 65.3 52.3 78.5





#25

2-Butanone

Concen: 1.90 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

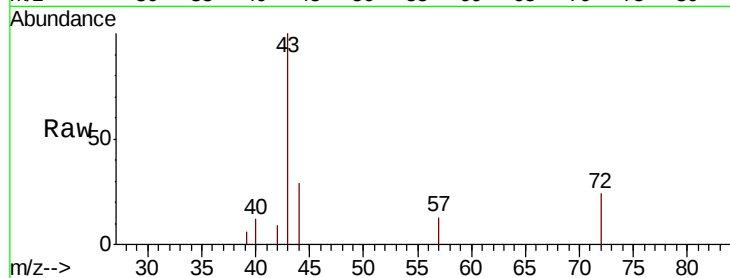
ClientSampleId :

Tot Ion: 43 Resp: 4603

Ion Ratio Lower Upper

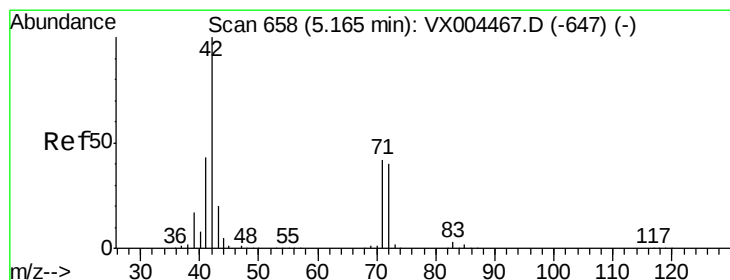
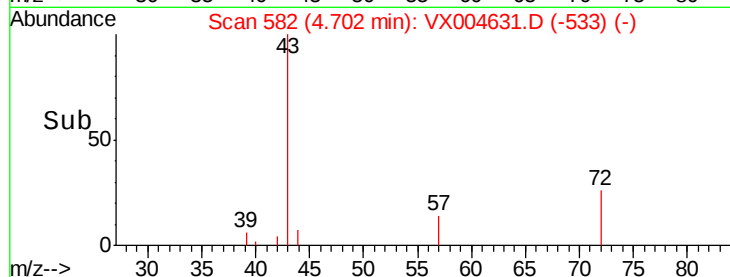
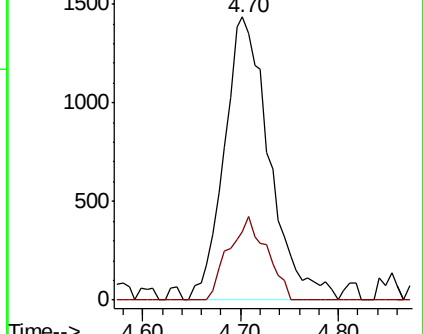
43 100

72 24.2 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: 1.16 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

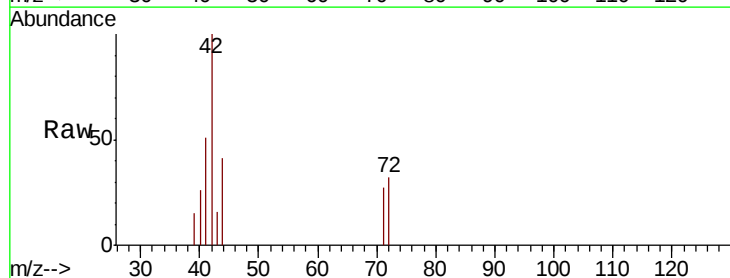
Tgt Ion: 42 Resp: 1703

Ion Ratio Lower Upper

42 100

72 34.6 37.4 56.0#

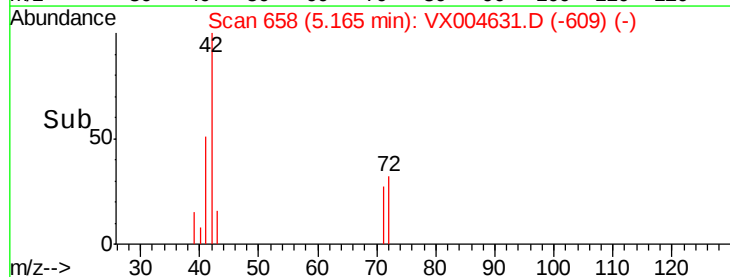
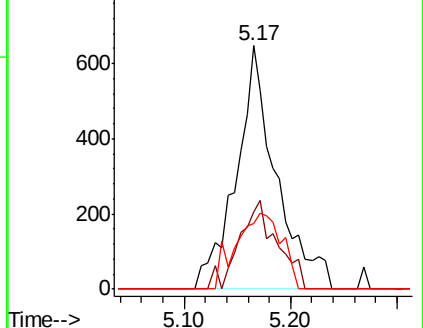
71 36.1 34.5 51.7

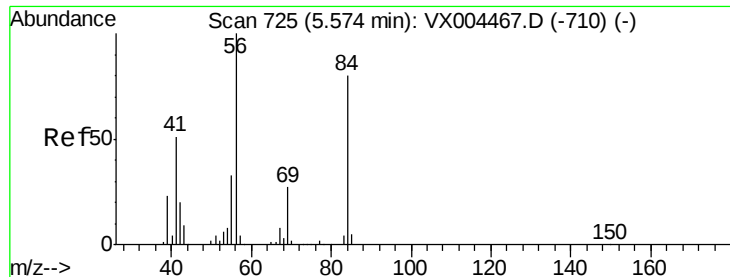


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

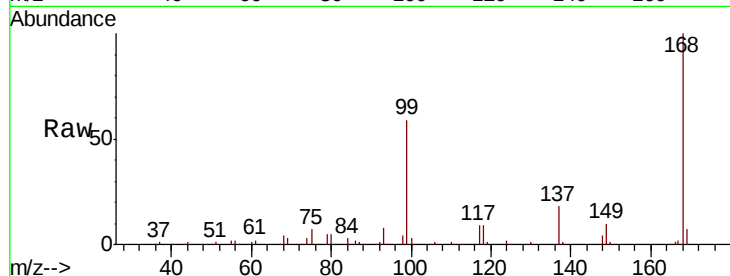




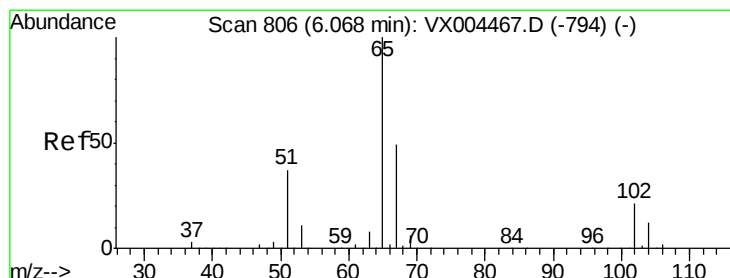
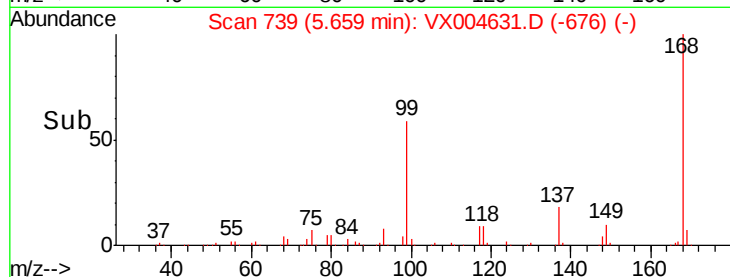
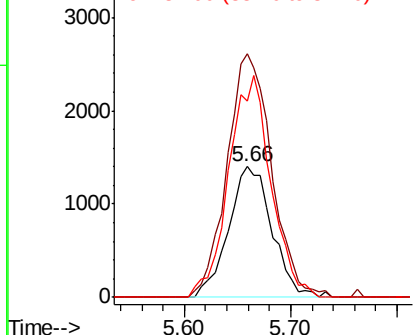
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4001
Ion Ratio Lower Upper
56 100
69 186.0 25.4 38.2#
84 149.6 71.4 107.2#

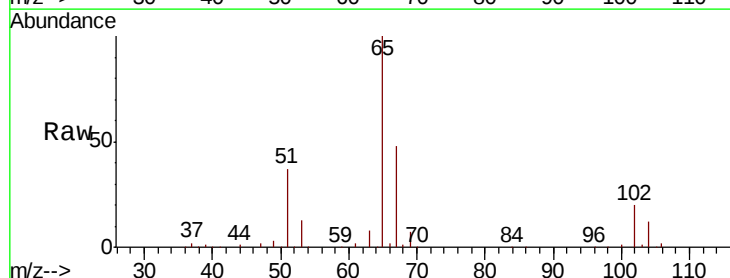


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

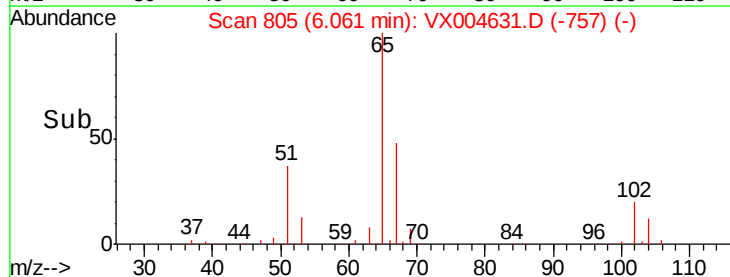
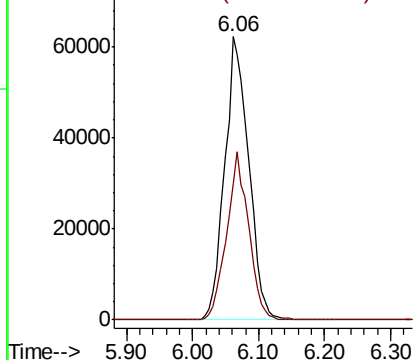


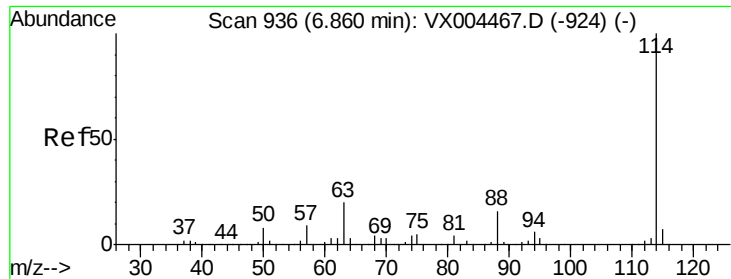
#33
1,2-Dichloroethane-d4
Concen: 49.97 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Tgt Ion: 65 Resp: 156236
Ion Ratio Lower Upper
65 100
67 54.5 0.0 106.8



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

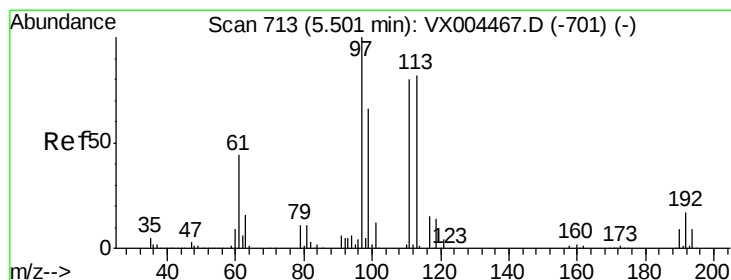
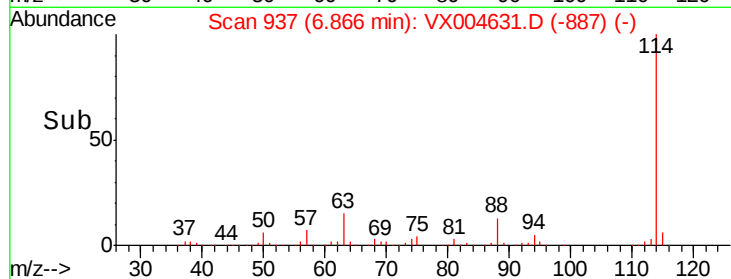
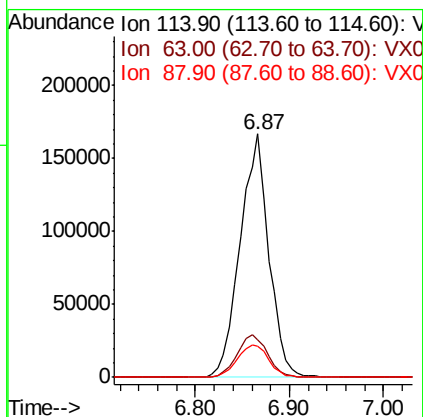
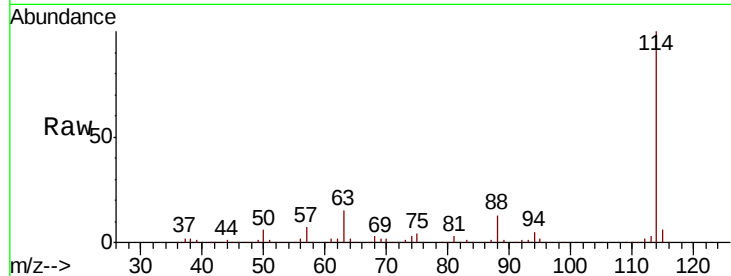




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004631.D
 Acq: 17 Sep 2018 20:52

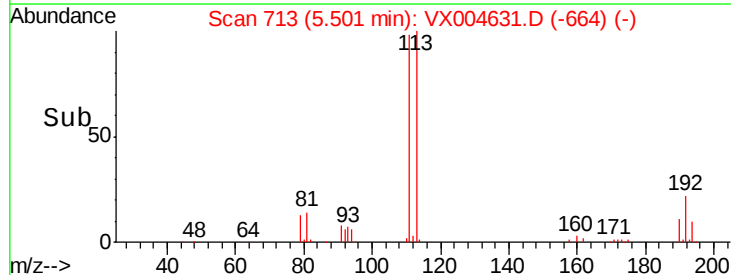
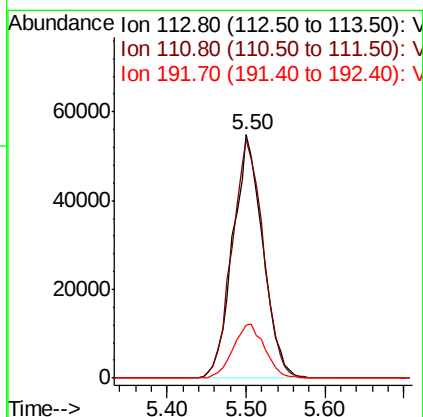
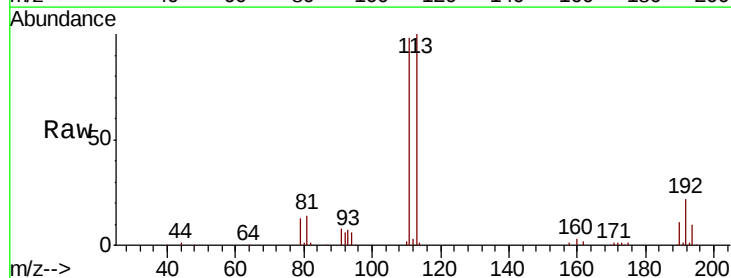
Instrument :
 MSVOA_X
 ClientSampleId :

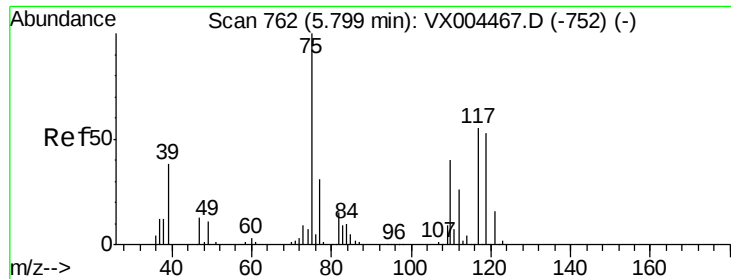
Tot Ion:114 Resp: 355794
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 39.0
 88 12.6 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 44.69 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004631.D
 Acq: 17 Sep 2018 20:52

Tgt Ion:113 Resp: 145503
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 23.2 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.70 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

ClientSampleId :

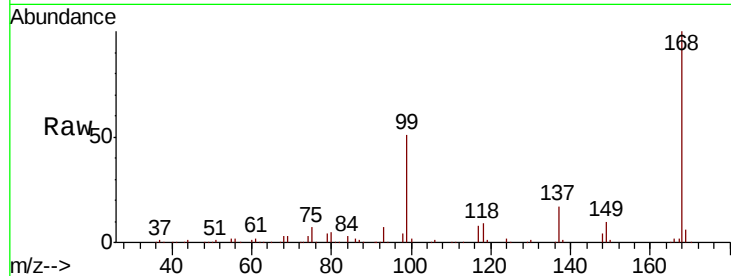
Tot Ion: 75 Resp: 15998

Ion Ratio Lower Upper

75 100

110 8.2 18.0 54.0#

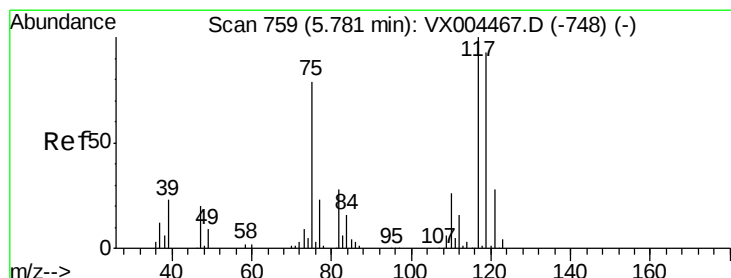
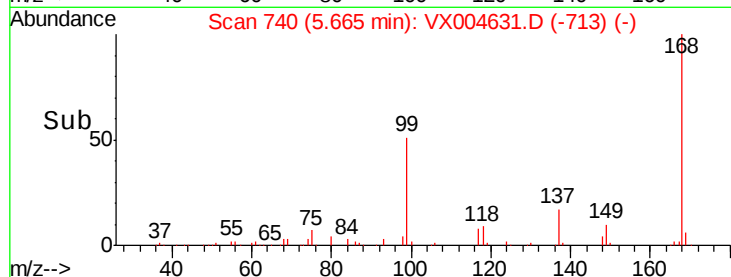
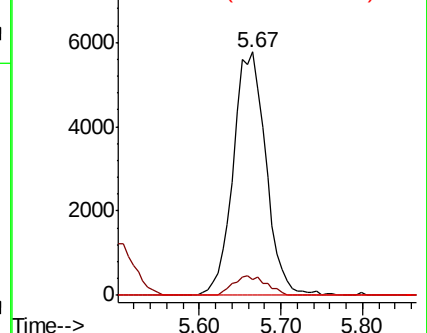
77 0.0 24.6 36.8#



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: 4.77 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

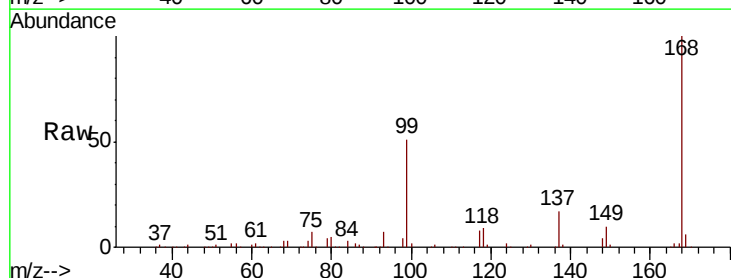
Tgt Ion: 117 Resp: 20127

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

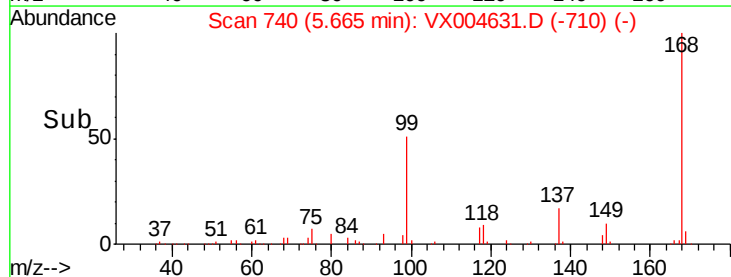
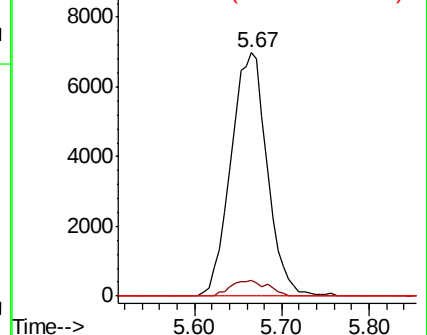
121 0.0 24.9 37.3#

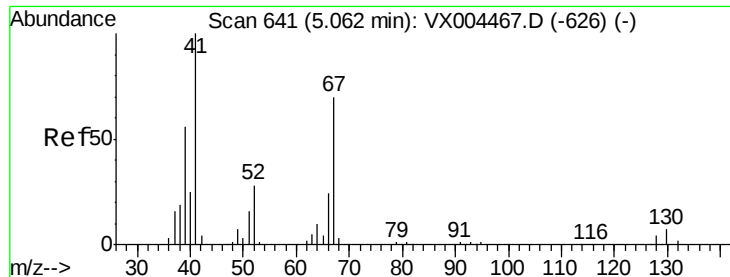


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.36 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 41 Resp: 962

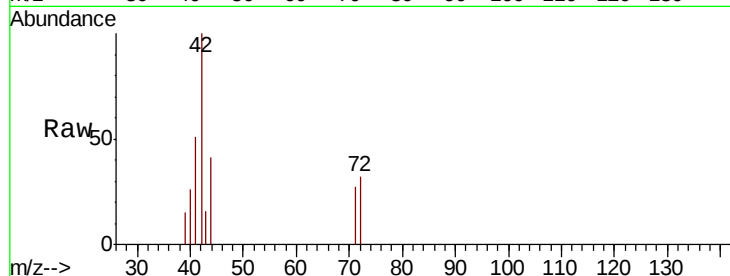
Ion Ratio Lower Upper

41 100

39 30.6 42.4 63.6#

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

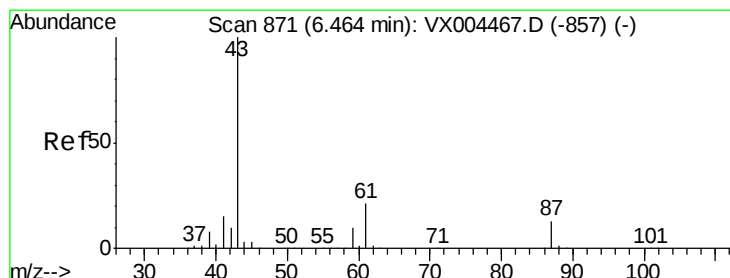
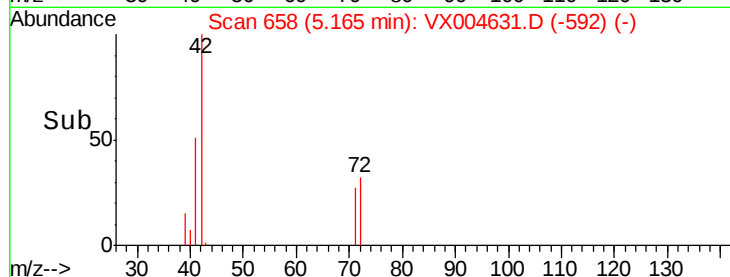
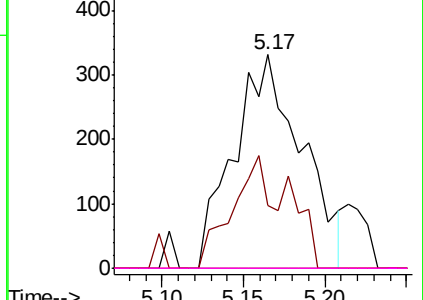


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 23.04 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

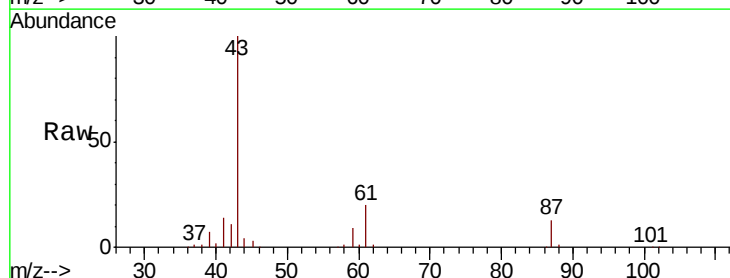
Tgt Ion: 43 Resp: 150327

Ion Ratio Lower Upper

43 100

61 21.0 17.0 25.4

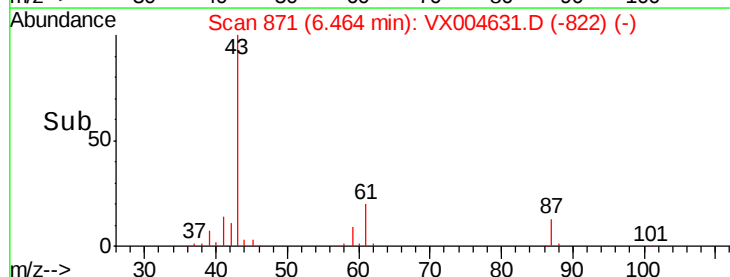
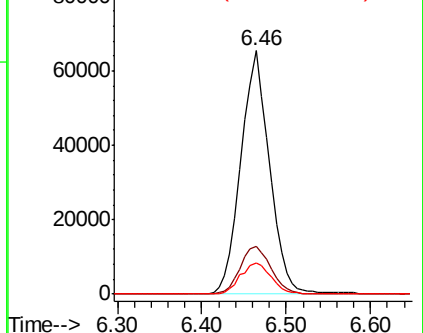
87 13.7 11.4 17.2

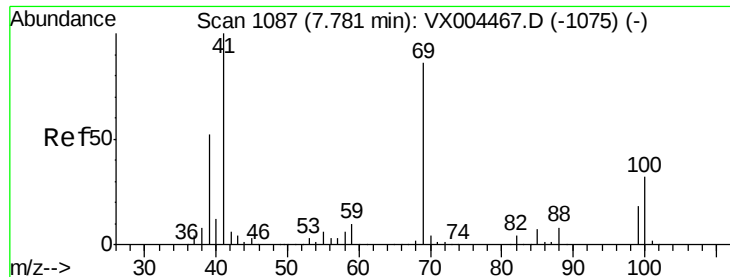


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 4.89 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.10 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

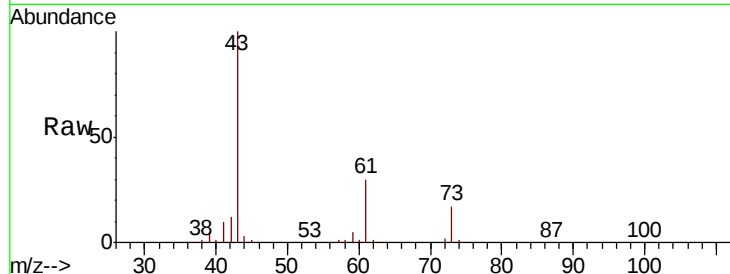
Tot Ion: 41 Resp: 15782

Ion Ratio Lower Upper

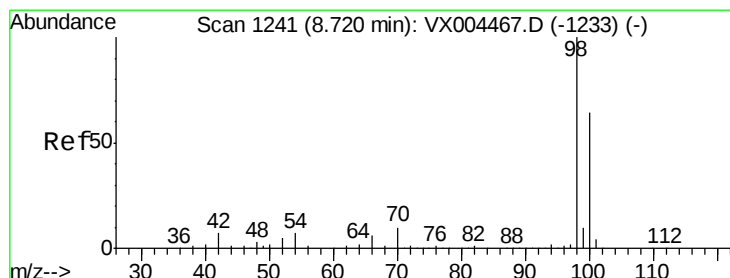
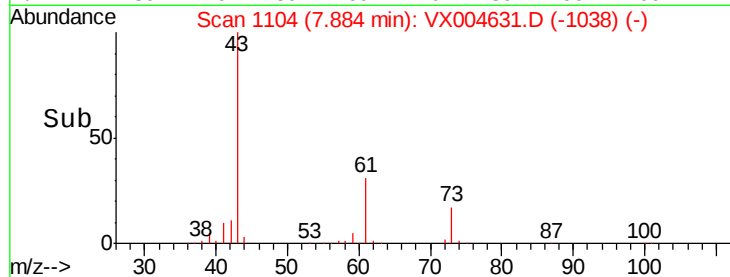
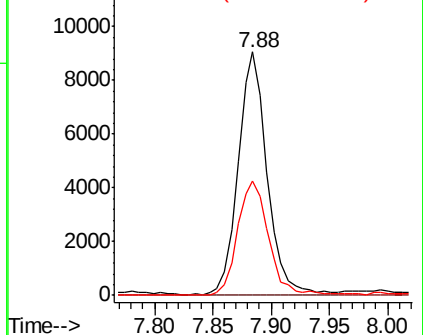
41 100

69 0.0 70.2 105.4#

39 50.3 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: 44.85 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004631.D

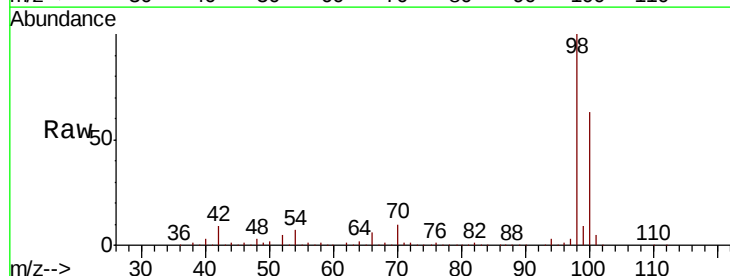
Acq: 17 Sep 2018 20:52

Tgt Ion: 98 Resp: 489650

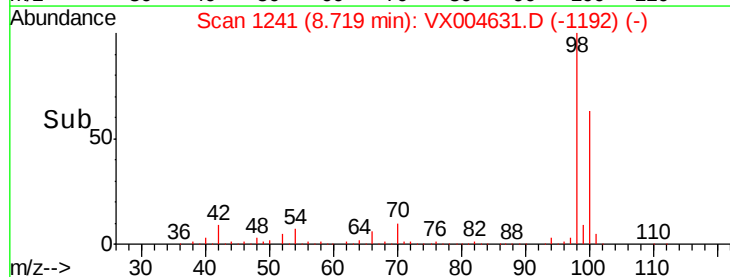
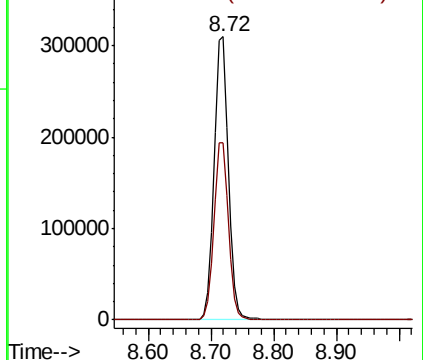
Ion Ratio Lower Upper

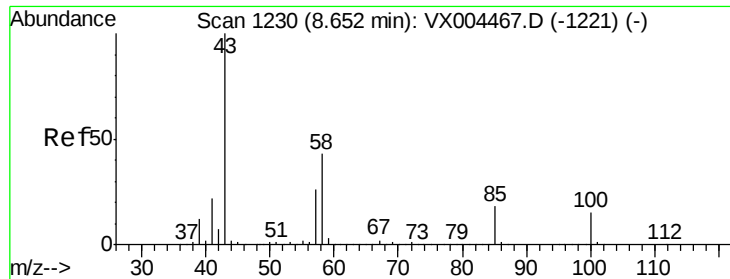
98 100

100 63.5 52.9 79.3



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

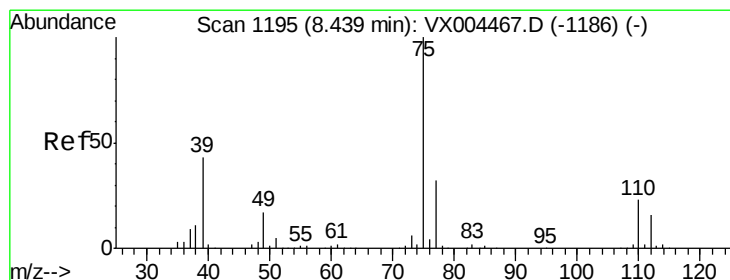
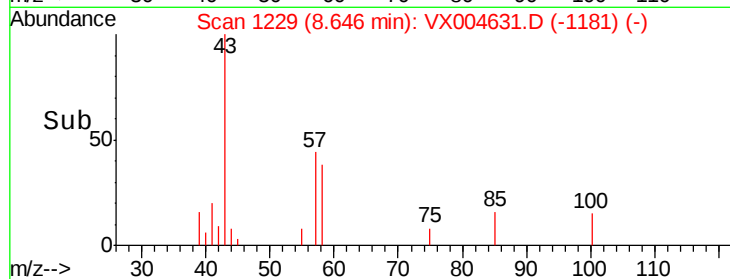
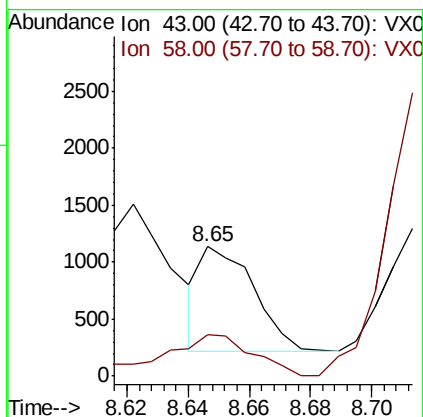
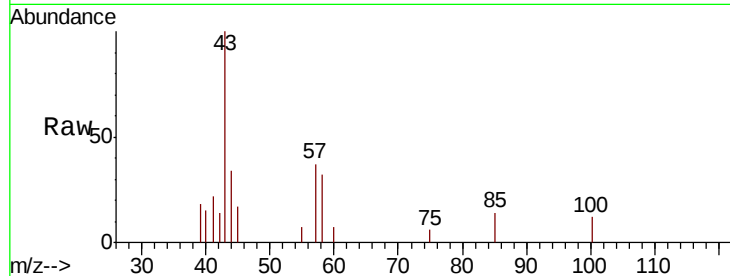




#51
 4-Methyl-2-Pentanone
 Concen: 0.24 ug/l
 RT: 8.65 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VX004631.D
 Acq: 17 Sep 2018 20:52

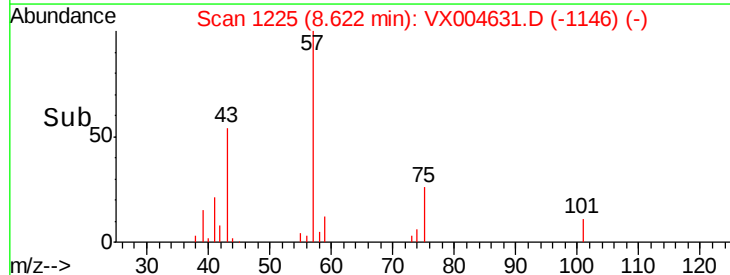
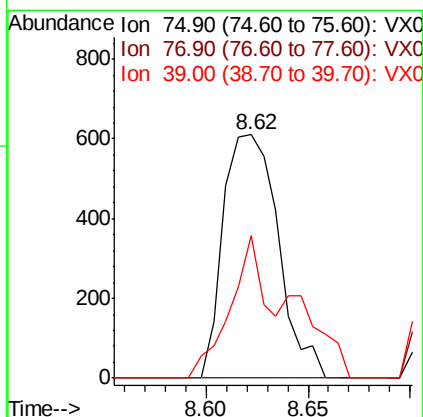
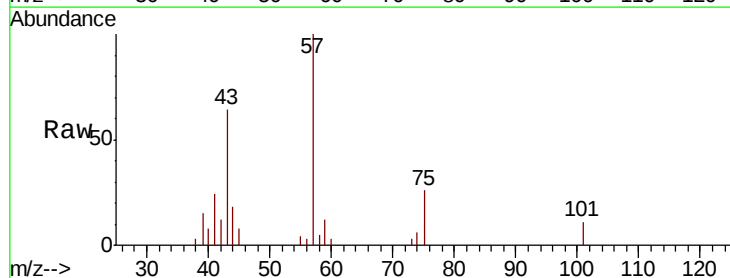
Instrument :
 MSVOA_X
 ClientSampleId :

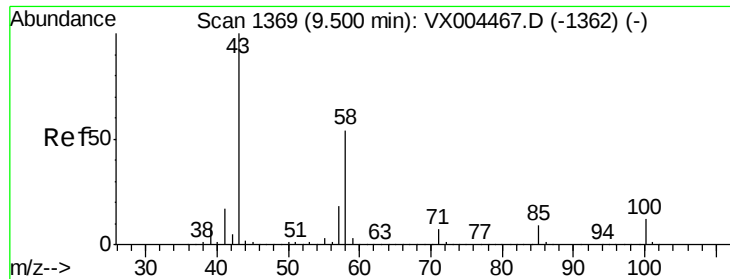
Tot Ion: 43 Resp: 1116
 Ion Ratio Lower Upper
 43 100
 58 67.2 33.1 49.7#



#54
 cis-1,3-Dichloropropene
 Concen: 0.26 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004631.D
 Acq: 17 Sep 2018 20:52

Tgt Ion: 75 Resp: 1145
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 58.8 36.4 54.6#

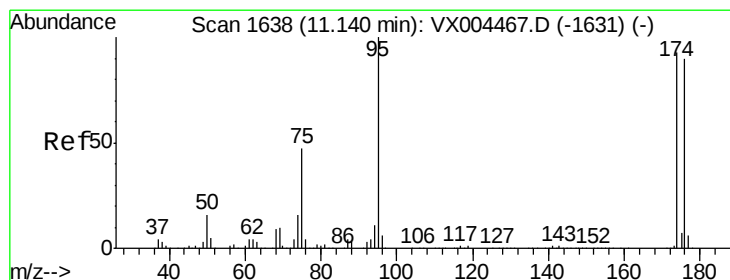
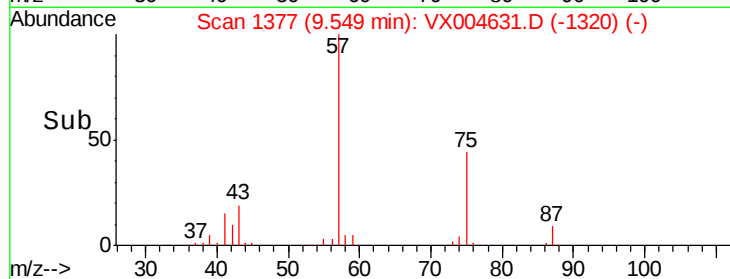
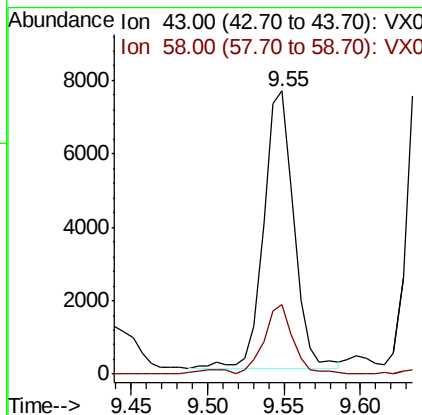
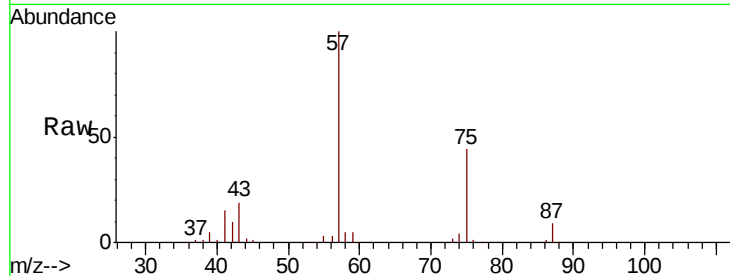




#59
2-Hexanone
Concen: 2.95 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

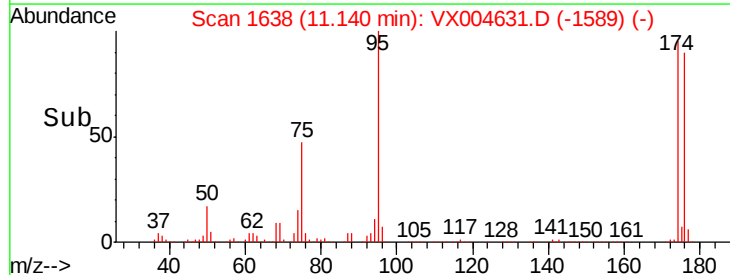
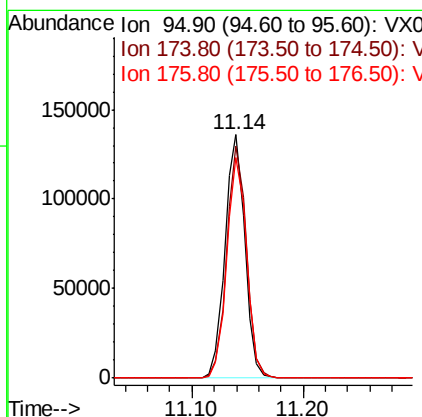
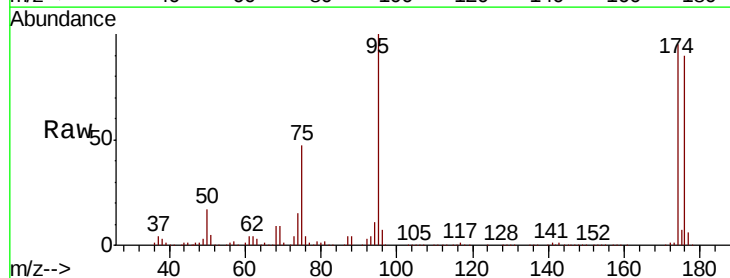
Instrument :
MSVOA_X
ClientSampled :

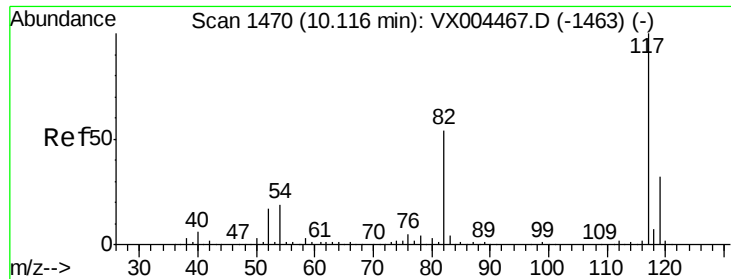
Tot Ion: 43 Resp: 10405
Ion Ratio Lower Upper
43 100
58 24.2 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 43.01 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Tgt Ion: 95 Resp: 167636
Ion Ratio Lower Upper
95 100
174 95.6 0.0 185.2
176 90.8 0.0 178.6

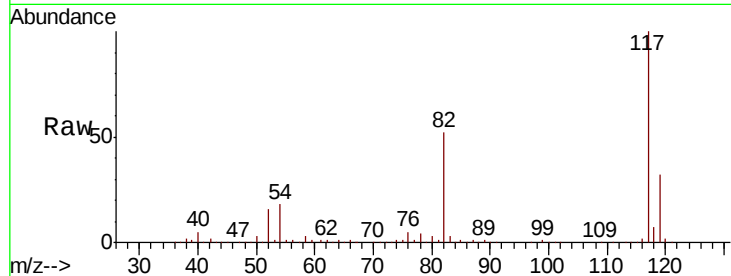




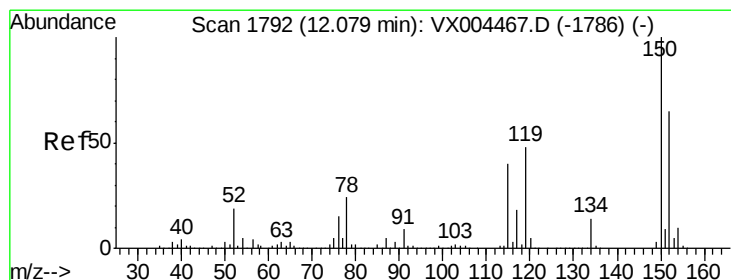
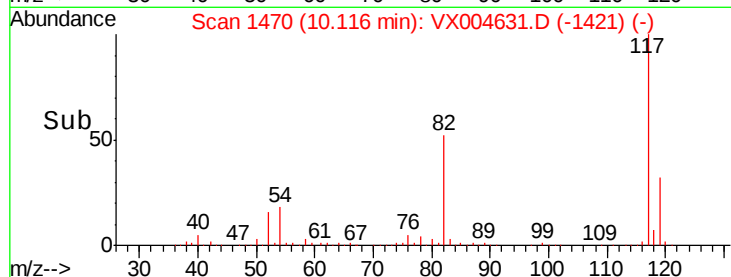
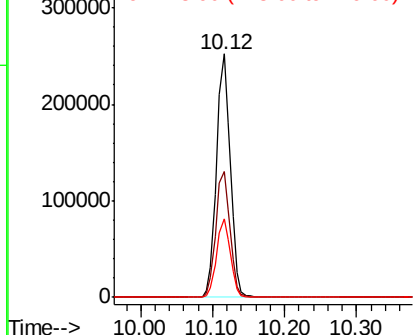
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 333724
Ion Ratio Lower Upper
117 100
82 51.8 47.8 71.6
119 32.3 29.3 43.9

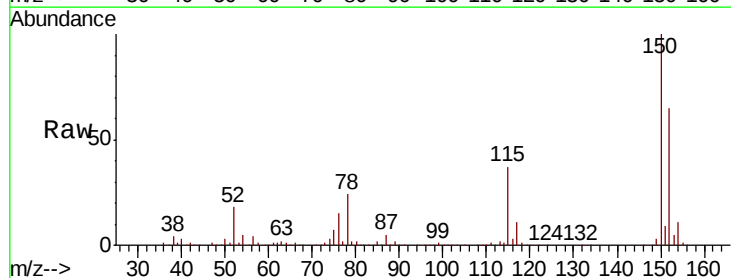


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

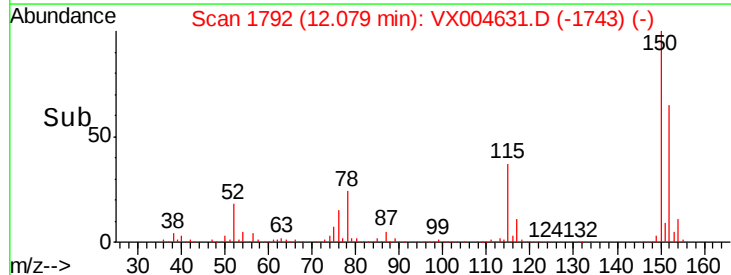
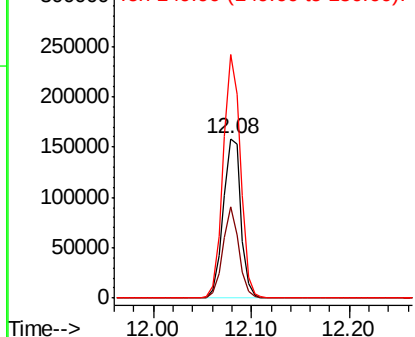


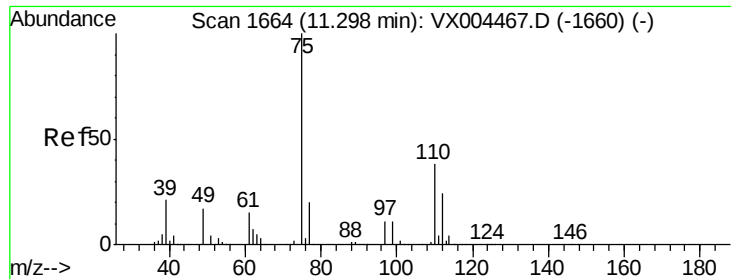
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004631.D
Acq: 17 Sep 2018 20:52

Tgt Ion:152 Resp: 198003
Ion Ratio Lower Upper
152 100
115 51.6 39.0 117.0
150 149.7 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: 19.82 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Instrument :

MSVOA_X

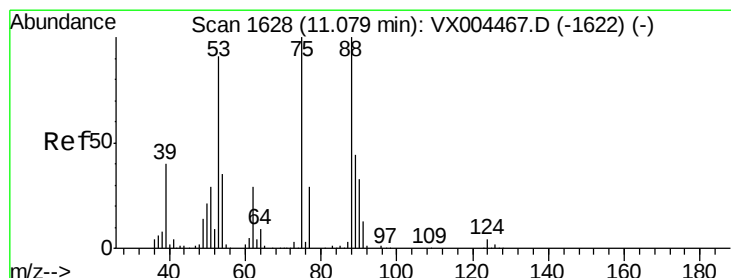
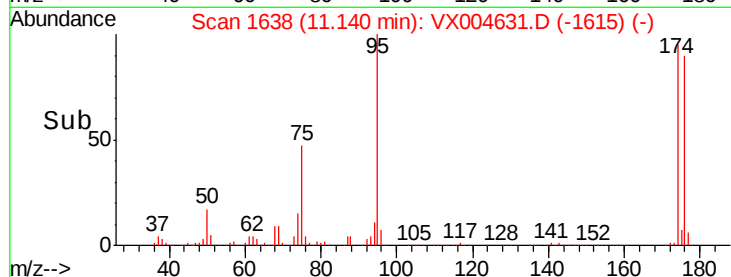
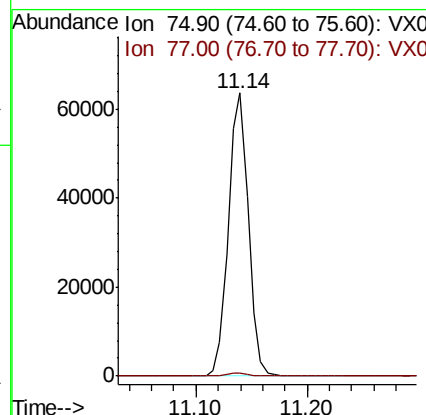
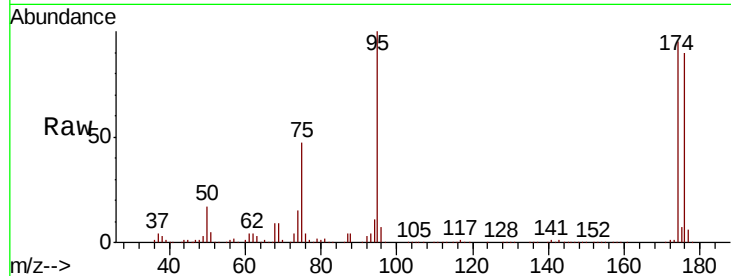
ClientSampleId :

Tot Ion: 75 Resp: 78944

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.17 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004631.D

Acq: 17 Sep 2018 20:52

Tgt Ion: 75 Resp: 78944

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

