

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004640.D
 Acq On : 18 Sep 2018 00:52
 Operator : JC/MD
 Sample : PB112894ZHE#15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 02:18:26 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	228886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	313618	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	184950	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	154856	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
35) Dibromofluoromethane	5.50	113	134456	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
50) Toluene-d8	8.71	98	444595	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
62) 4-Bromofluorobenzene	11.14	95	153194	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

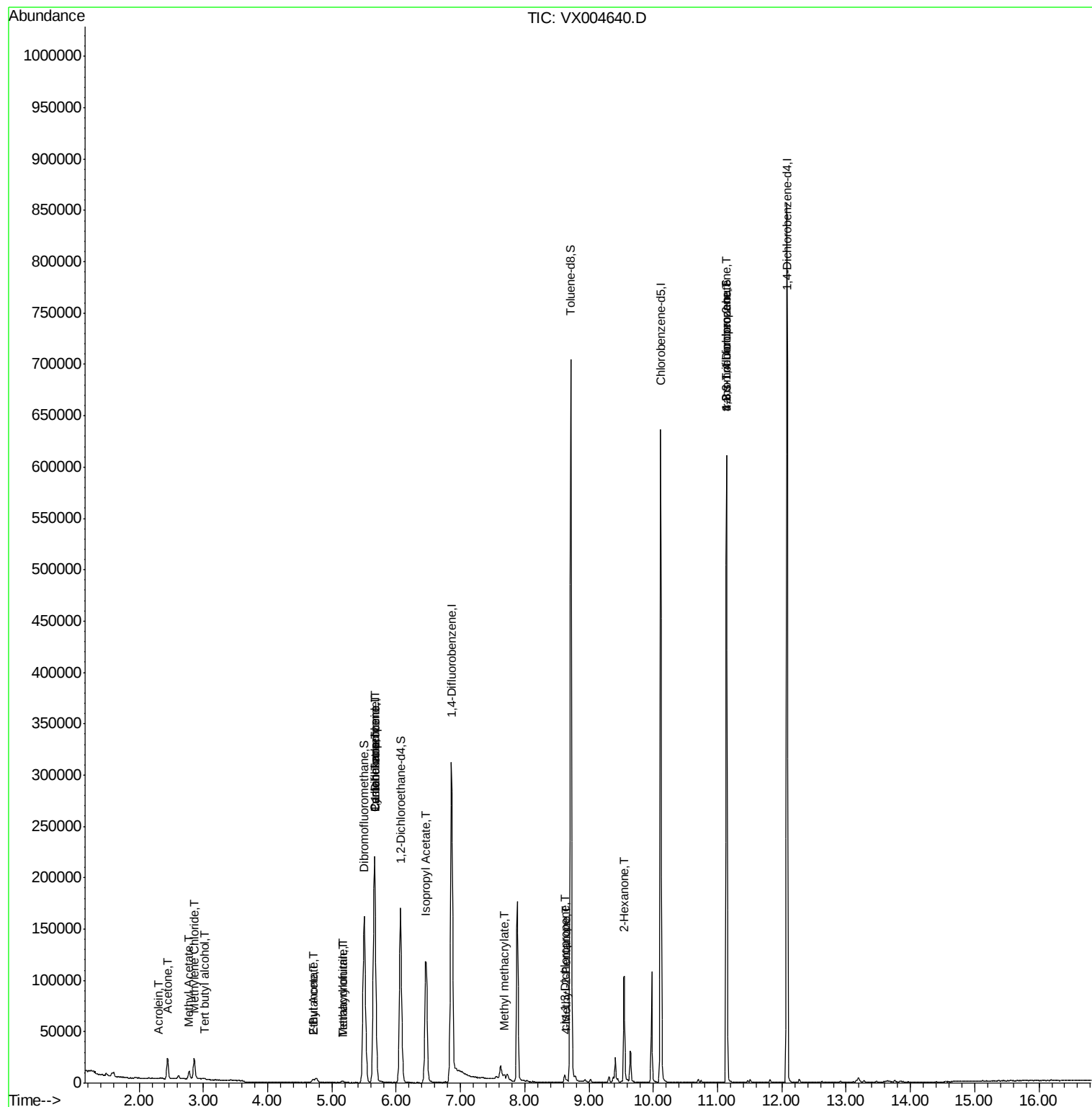
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	214	Below Cal		87
11) Tert butyl alcohol	3.03	59	886	1.26	ug/l #	78
13) Acrolein	2.31	56	67	0.24	ug/l	98
16) Acetone	2.44	43	22093	15.34	ug/l	96
18) Methyl Acetate	2.78	43	10417	2.58	ug/l	96
20) Methylene Chloride	2.85	84	9920	3.36	ug/l	95
25) 2-Butanone	4.70	43	5940	2.59	ug/l	100
29) Tetrahydrofuran	5.17	42	1489	1.08	ug/l #	83
31) Cyclohexane	5.66	56	3562	0.83	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14894	3.91	ug/l #	50
37) Ethyl Acetate	4.70	43	5940	1.37	ug/l #	67
38) Carbon Tetrachloride	5.67	117	19195	5.16	ug/l #	15
41) Methacrylonitrile	5.18	41	940	0.39	ug/l #	47
43) Isopropyl Acetate	6.46	43	159215	27.68	ug/l	99
48) Methyl methacrylate	7.68	41	5547	1.95	ug/l #	20
51) 4-Methyl-2-Pentanone	8.65	43	1581	0.39	ug/l #	74
54) cis-1,3-Dichloropropene	8.62	75	1155	0.30	ug/l #	66
59) 2-Hexanone	9.55	43	10841	3.48	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	71641	19.25	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	71641	61.37	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: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

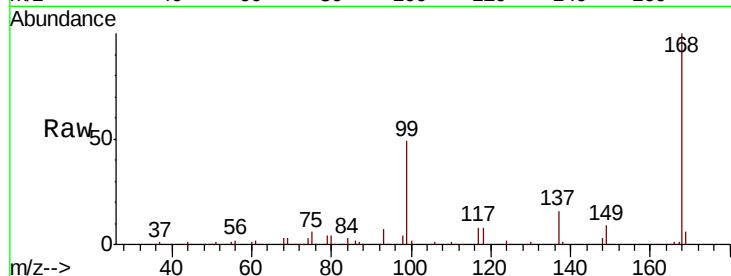
ClientSampled :

Tot Ion:168 Resp: 228886

Ion Ratio Lower Upper

168 100

99 48.7 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

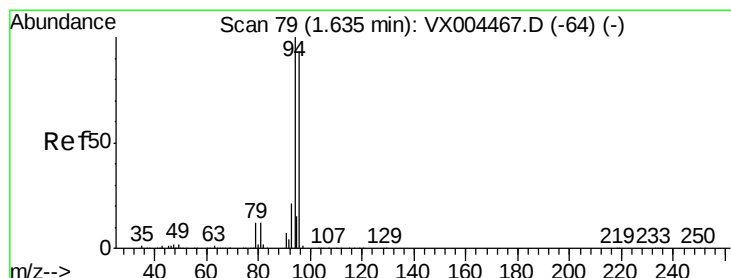
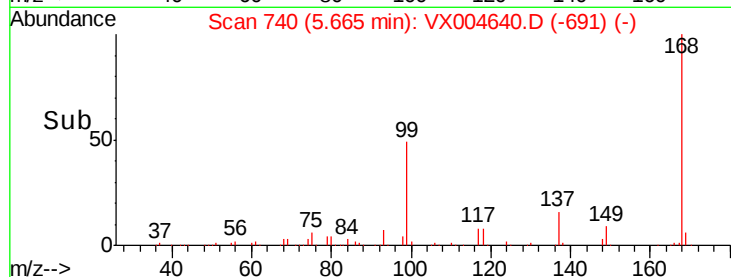
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004640.D

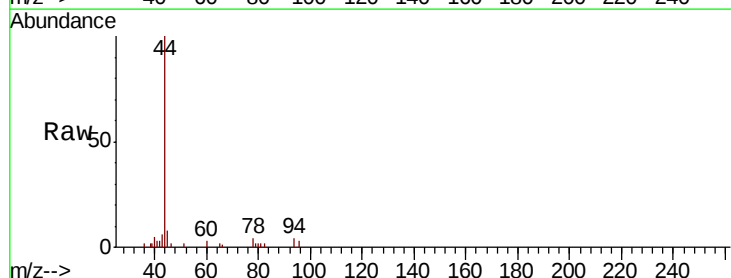
Acq: 18 Sep 2018 00:52

Tgt Ion: 94 Resp: 214

Ion Ratio Lower Upper

94 100

96 80.1 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

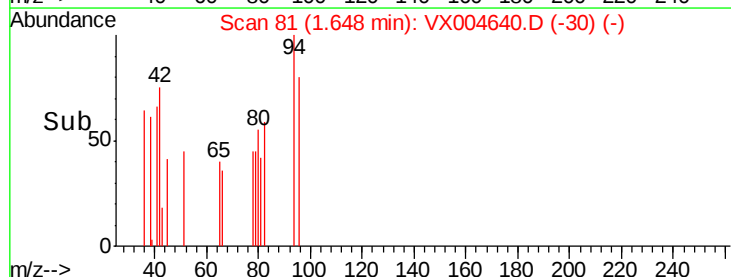
150

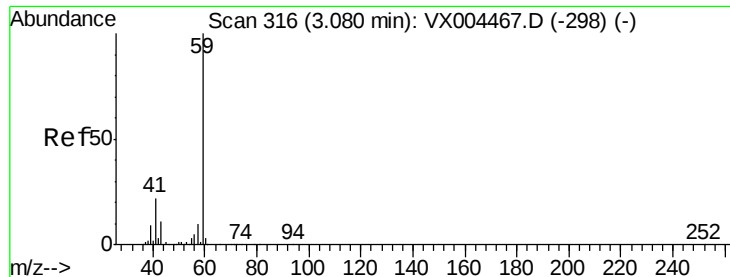
100

50

0

Time--> 1.62 1.64 1.66





#11

Tert butyl alcohol

Concen: 1.26 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

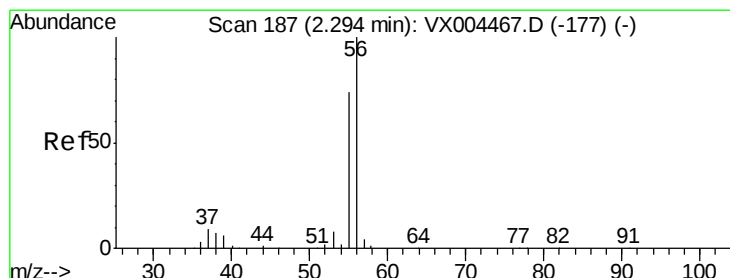
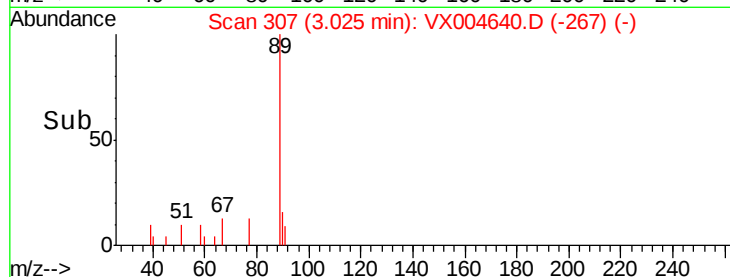
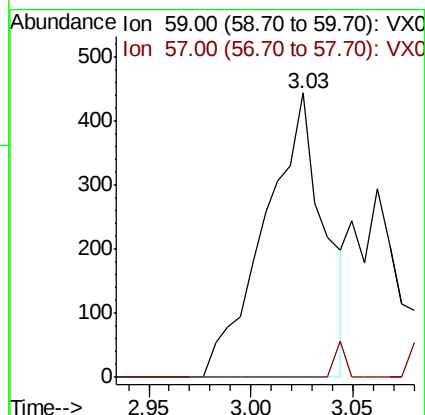
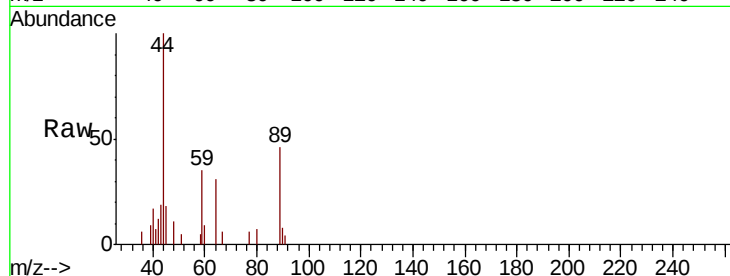
ClientSampleId :

Tot Ion: 59 Resp: 886

Ion Ratio Lower Upper

59 100

57 2.3 8.2 12.4#



#13

Acrolein

Concen: 0.24 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX004640.D

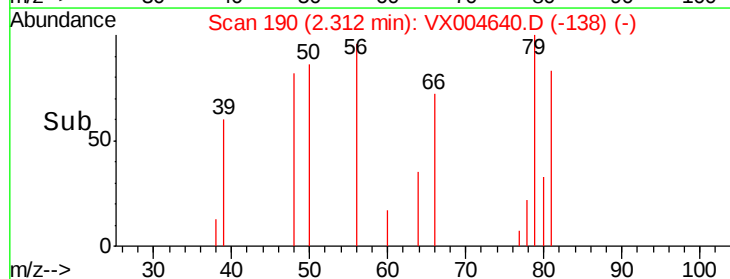
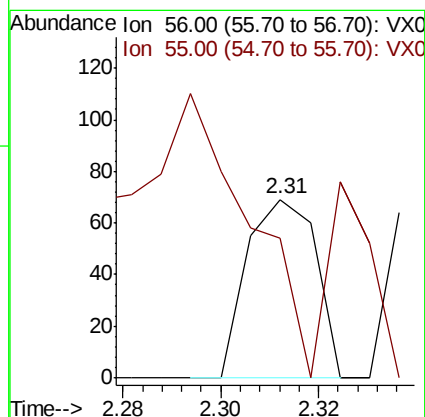
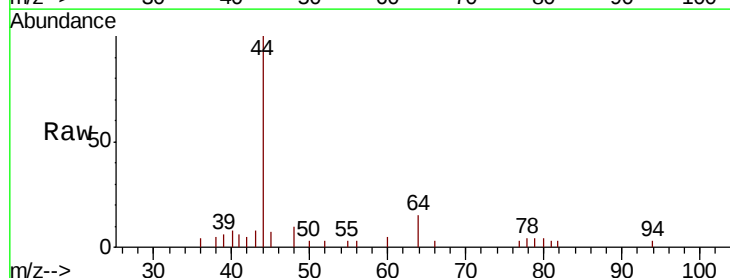
Acq: 18 Sep 2018 00:52

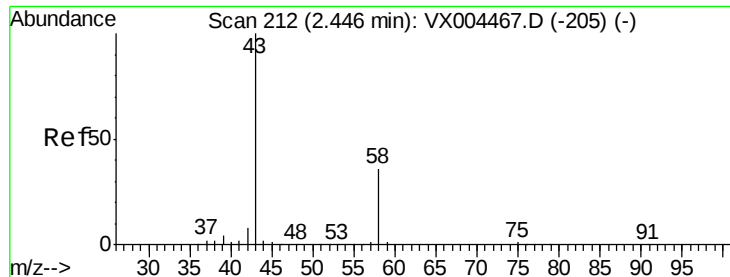
Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

55 70.1 54.7 82.1





#16

Acetone

Concen: 15.34 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

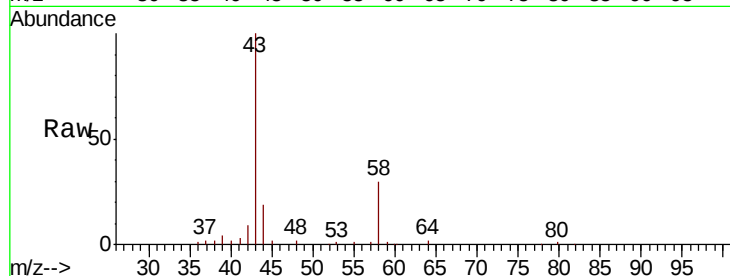
ClientSampled :

Tot Ion: 43 Resp: 22093

Ion Ratio Lower Upper

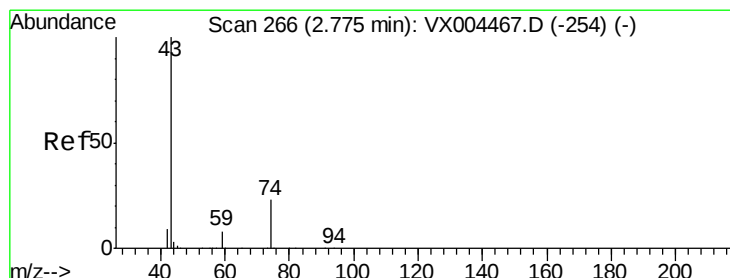
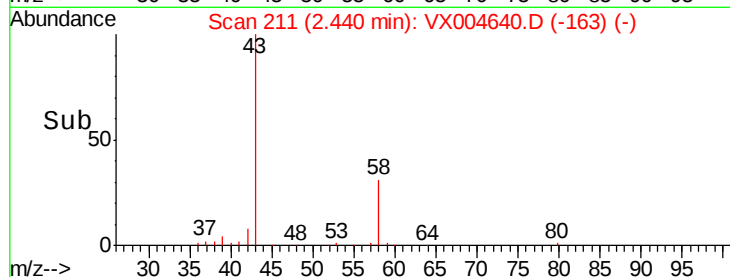
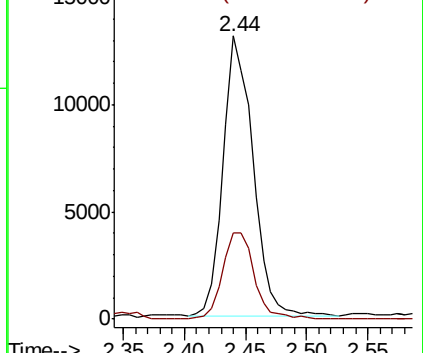
43 100

58 30.7 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: 2.58 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004640.D

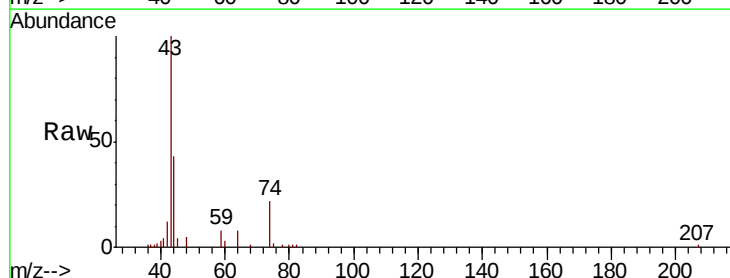
Acq: 18 Sep 2018 00:52

Tgt Ion: 43 Resp: 10417

Ion Ratio Lower Upper

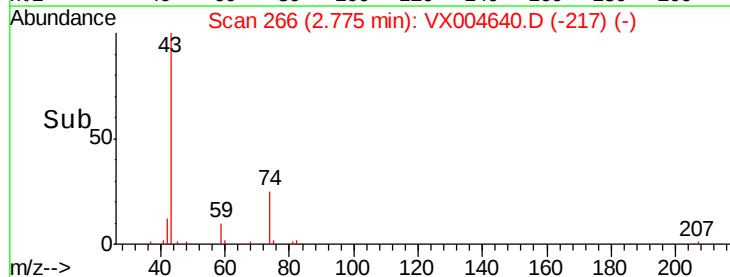
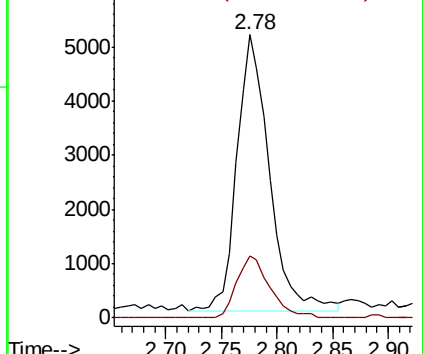
43 100

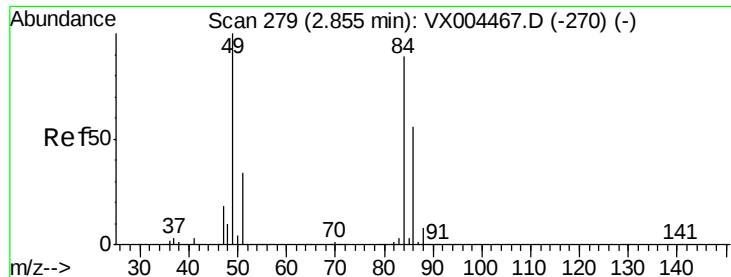
74 22.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

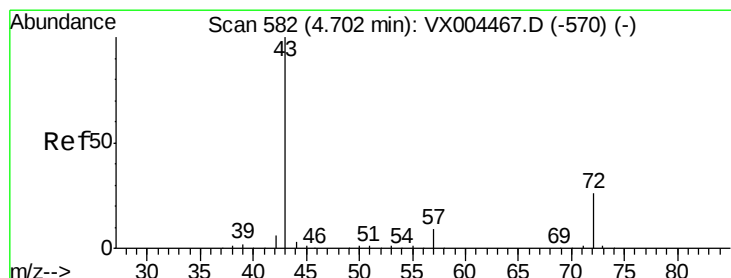
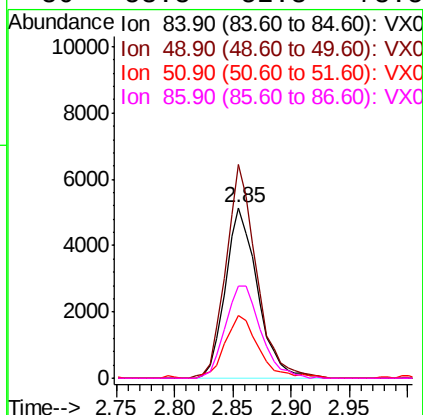
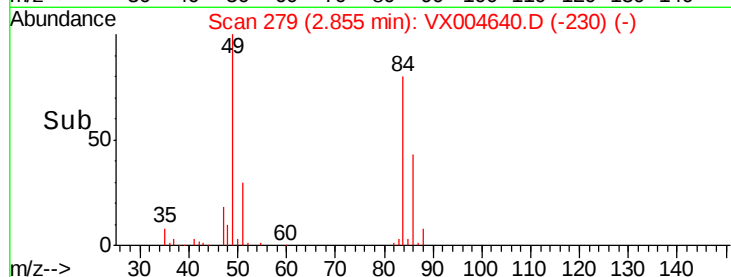
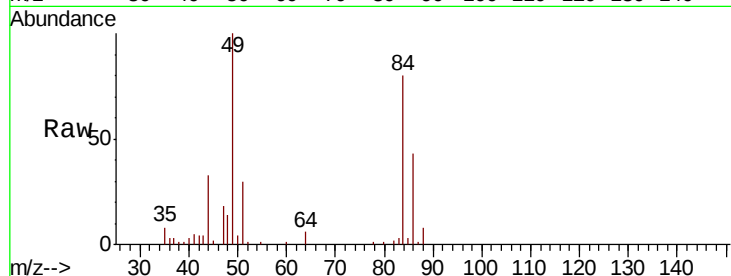




#20
Methvlene Chloride
Concen: 3.36 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

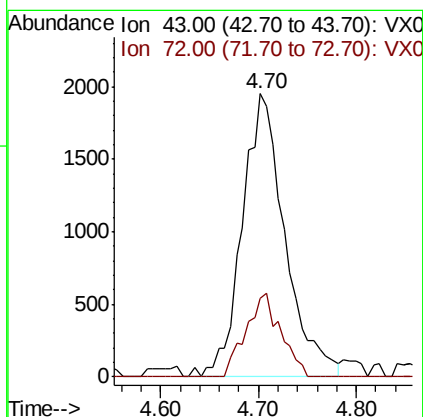
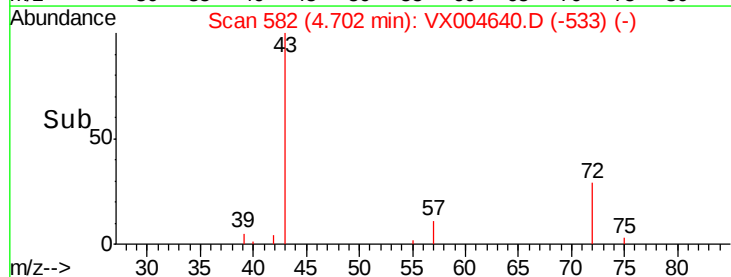
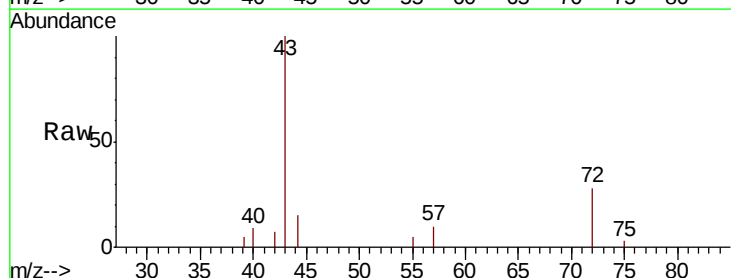
Instrument :
MSVOA_X
ClientSampleId :

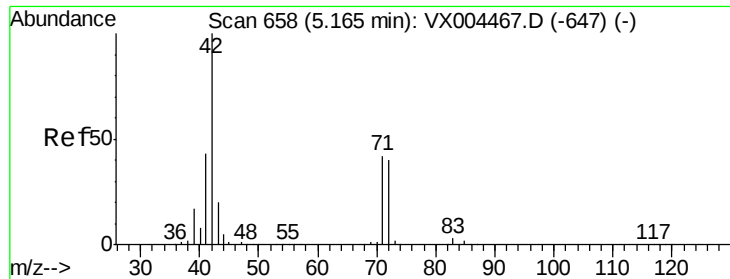
Tot Ion: 84 Resp: 9920
Ion Ratio Lower Upper
84 100
49 125.3 101.2 151.8
51 37.1 29.5 44.3
86 53.8 52.3 78.5



#25
2-Butanone
Concen: 2.59 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Tgt Ion: 43 Resp: 5940
Ion Ratio Lower Upper
43 100
72 27.7 22.0 33.0





#29

Tetrahydrofuran

Concen: 1.08 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

ClientSampleId :

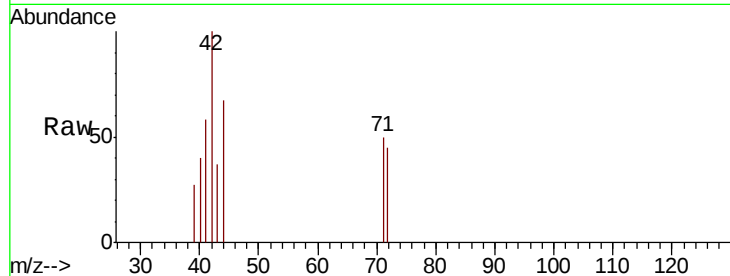
Tot Ion: 42 Resp: 1489

Ion Ratio Lower Upper

42 100

72 36.5 37.4 56.0#

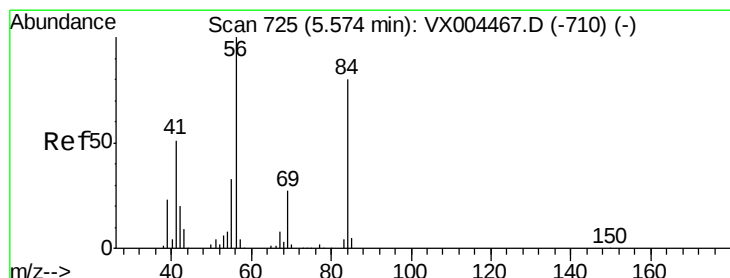
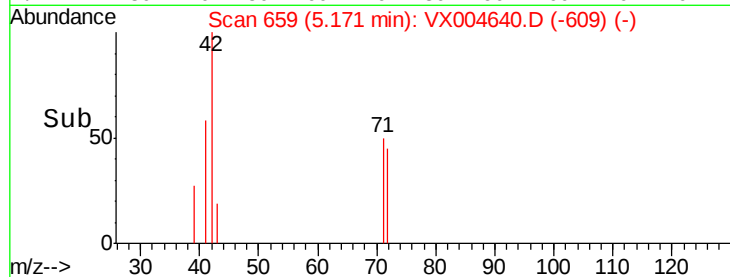
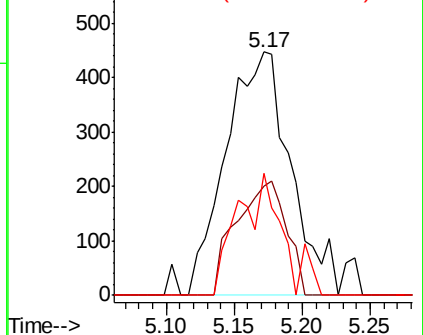
71 31.6 34.5 51.7#



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



#31

Cyclohexane

Concen: 0.83 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

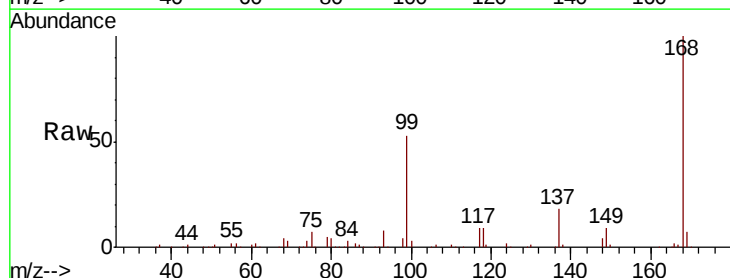
Tgt Ion: 56 Resp: 3562

Ion Ratio Lower Upper

56 100

69 183.3 25.4 38.2#

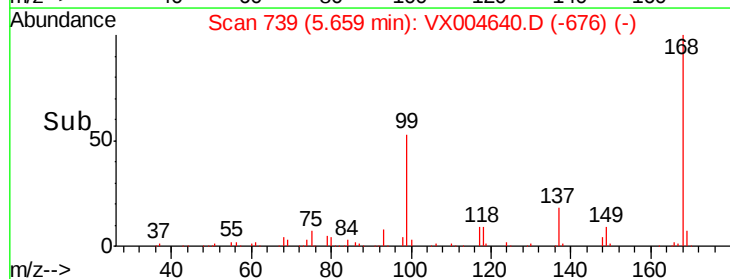
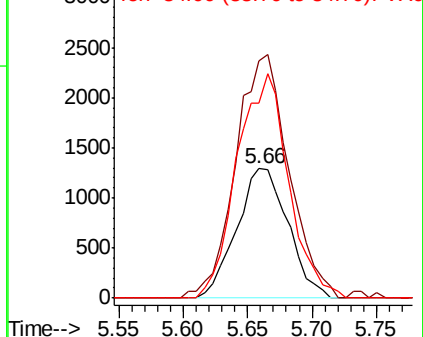
84 151.2 71.4 107.2#

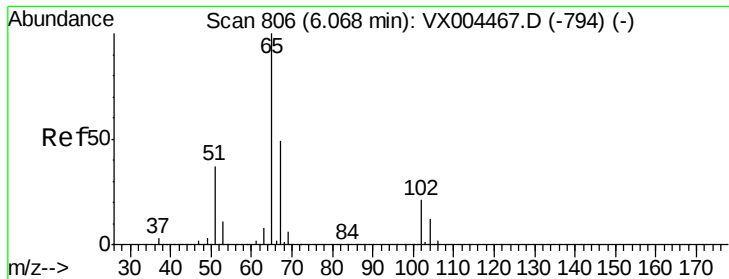


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

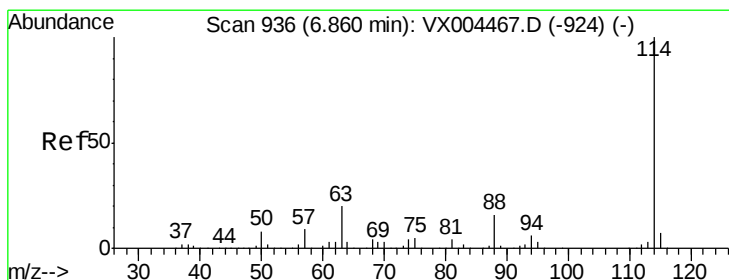
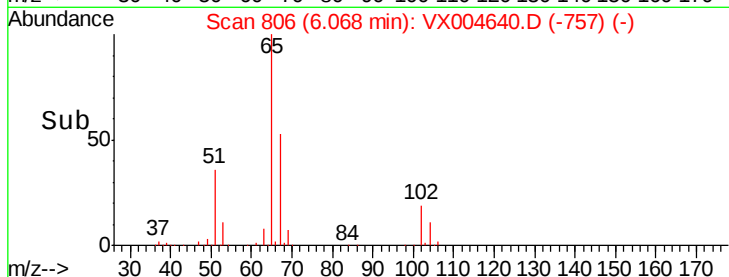
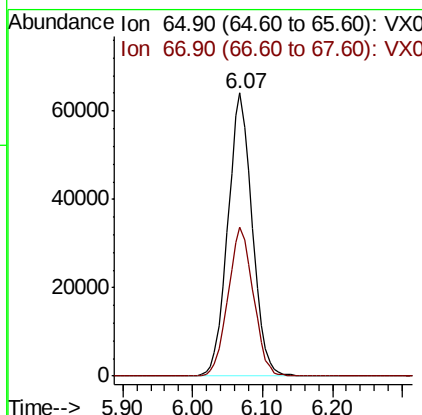
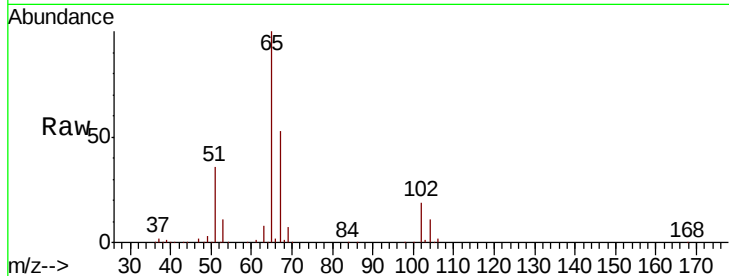




#33
 1,2-Dichloroethane-d4
 Concen: 52.47 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

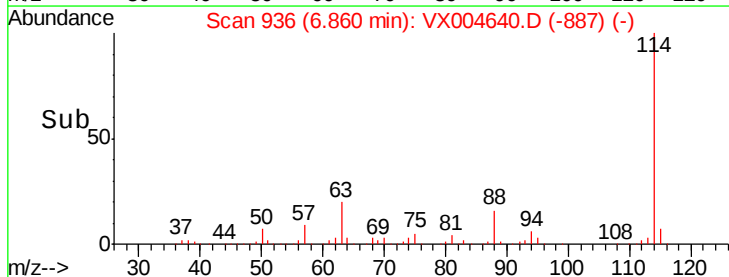
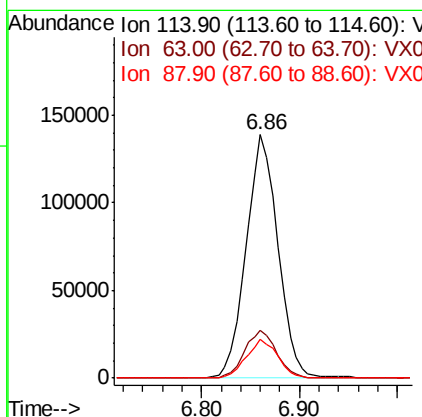
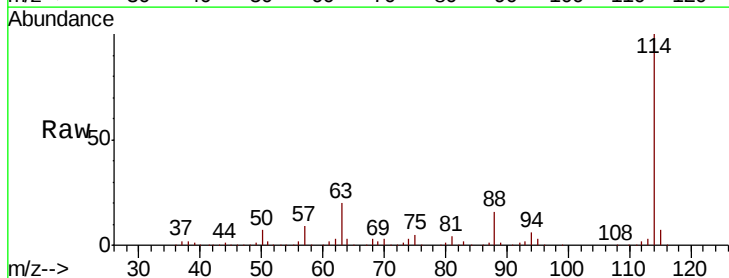
Instrument :
 MSVOA_X
 ClientSampleId :

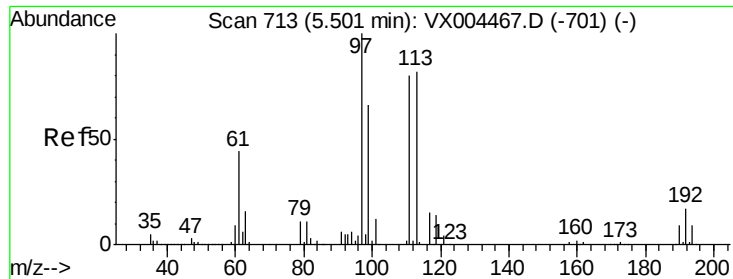
Tot Ion: 65 Resp: 154856
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

Tgt Ion: 114 Resp: 313618
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.8 0.0 30.4

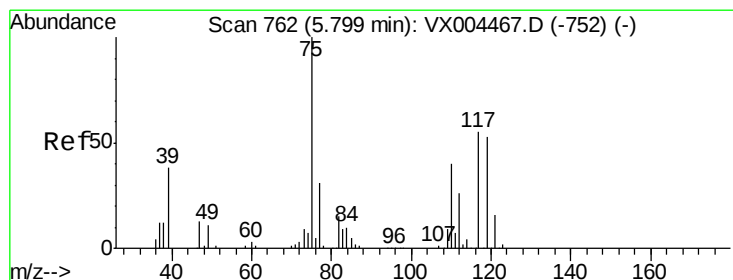
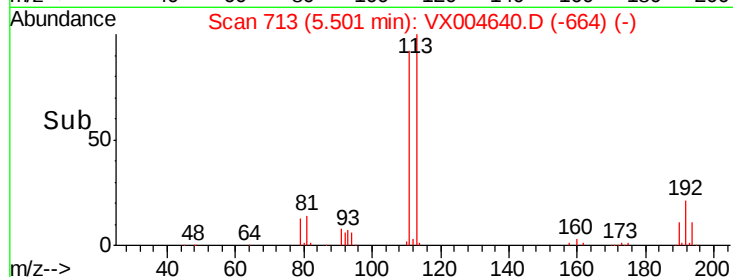
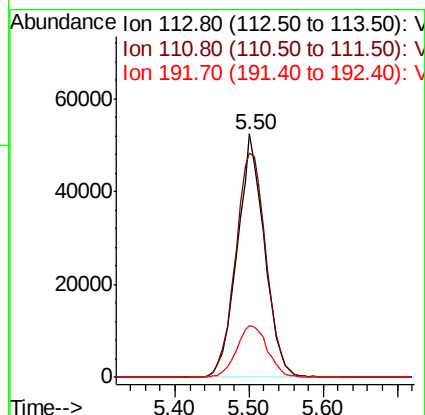
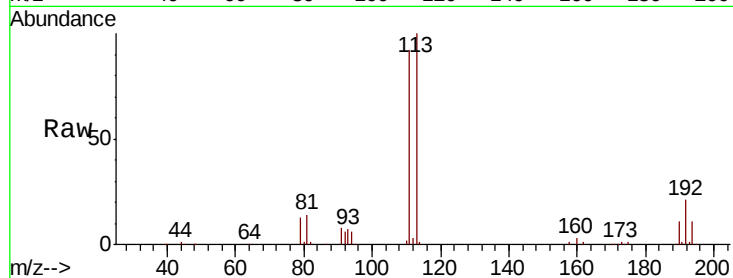




#35
 Dibromofluoromethane
 Concen: 46.85 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

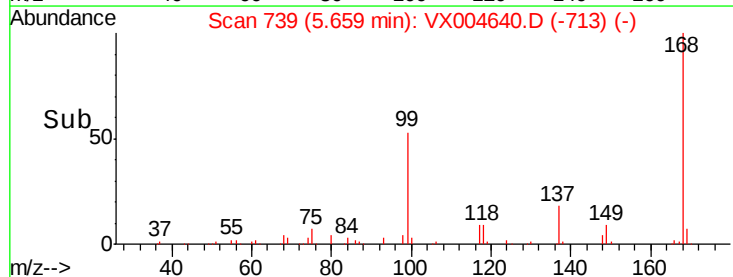
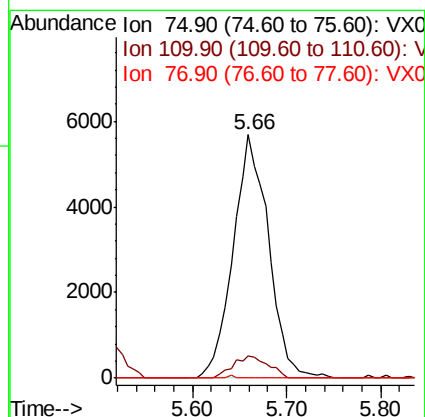
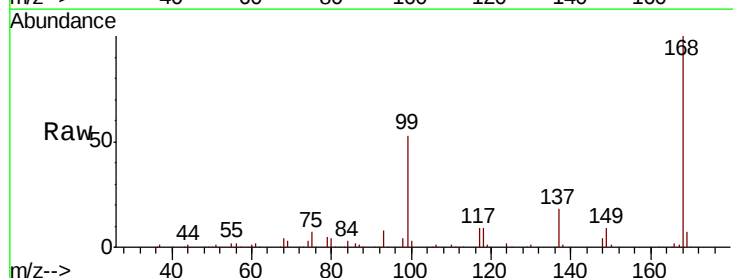
Instrument :
 MSVOA_X
 ClientSampleId :

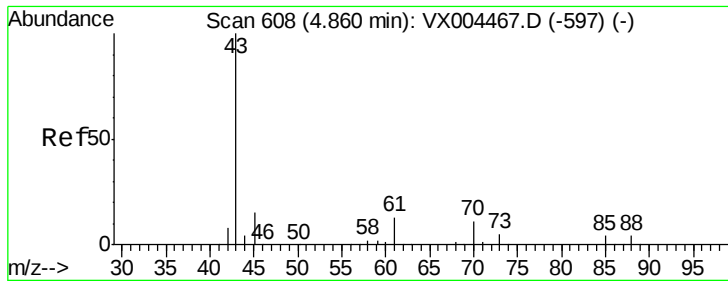
Tot Ion:113 Resp: 134456
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 24.1 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.91 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

Tgt Ion: 75 Resp: 14894
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.0 54.0#
 77 0.2 24.6 36.8#





#37

Ethyl Acetate

Concen: 1.37 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

ClientSampled :

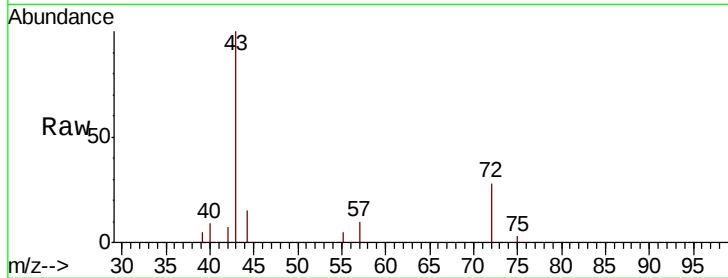
Tot Ion: 43 Resp: 5940

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

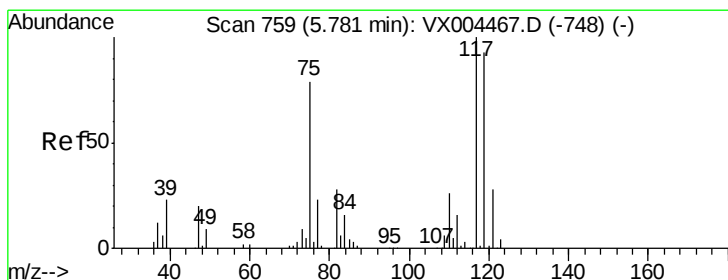
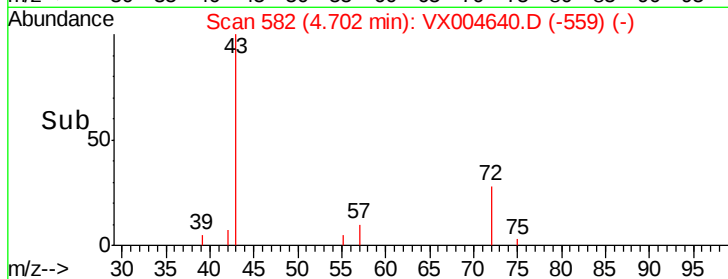
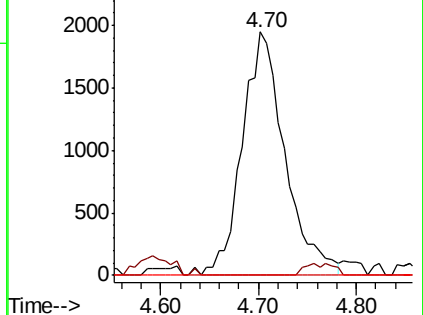
70 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.16 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

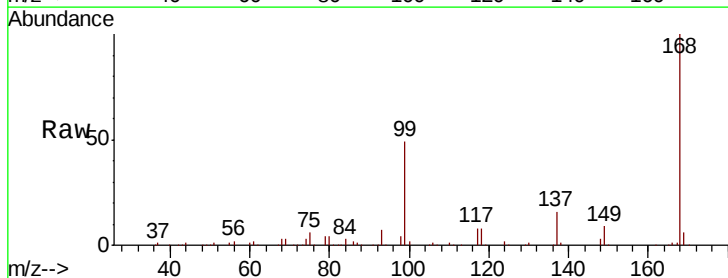
Tgt Ion: 117 Resp: 19195

Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

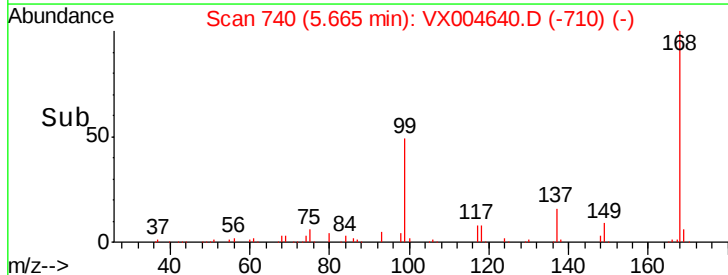
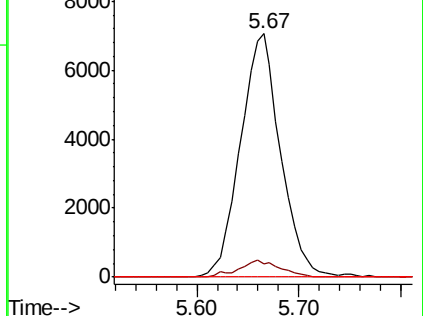
121 0.0 24.9 37.3#

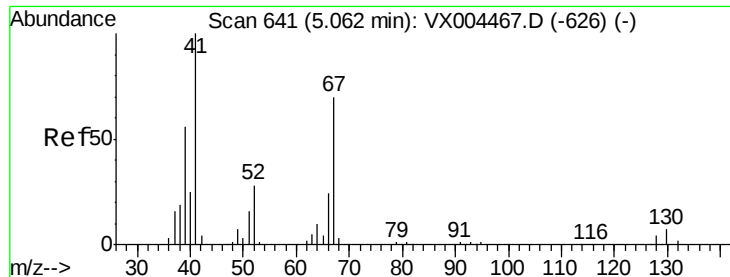


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

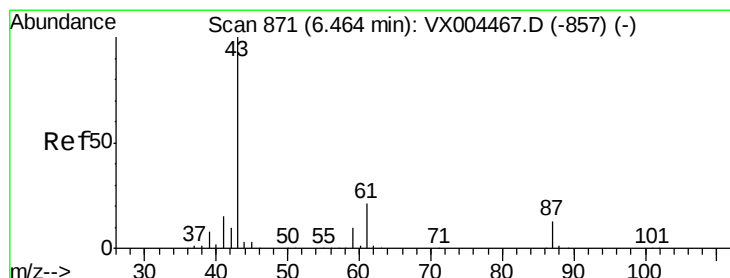
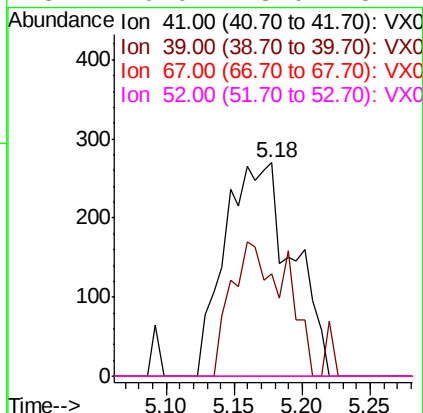
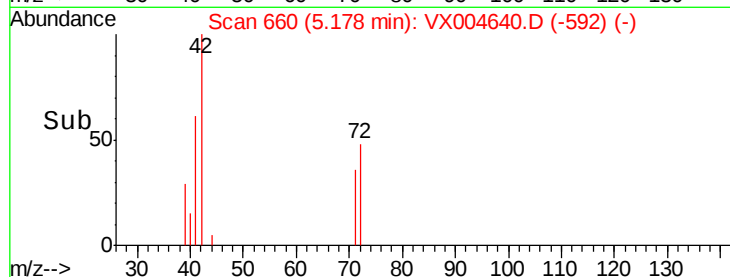
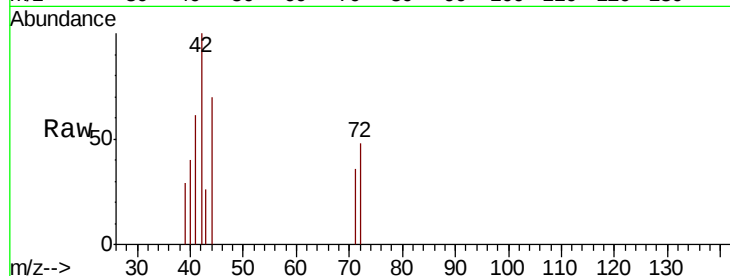




#41
Methacrylonitrile
Concen: 0.39 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.12 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

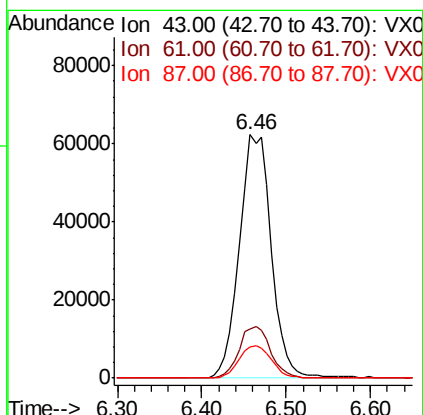
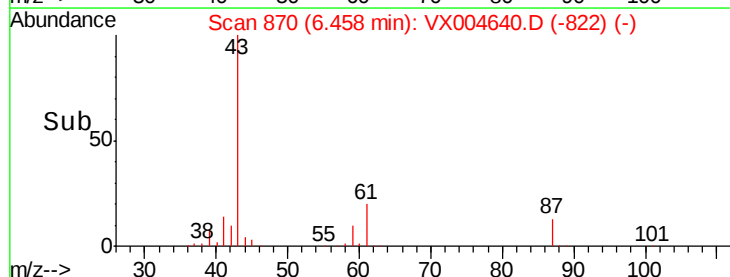
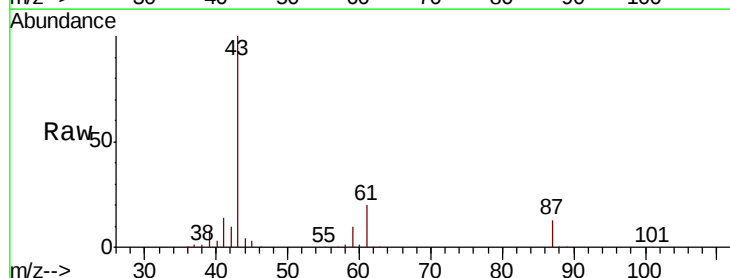
Instrument :
MSVOA_X
ClientSampleId :

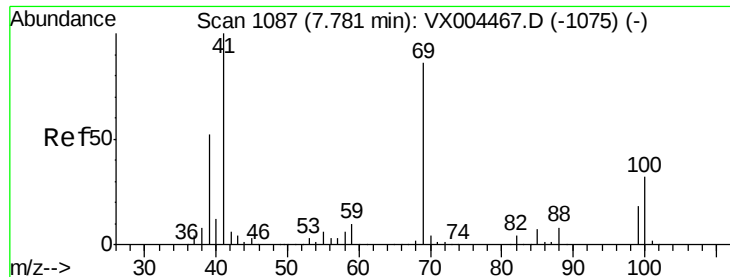
Tot Ion: 41 Resp: 940
Ion Ratio Lower Upper
41 100
39 50.3 42.4 63.6
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#



#43
Isopropyl Acetate
Concen: 27.68 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Tgt Ion: 43 Resp: 159215
Ion Ratio Lower Upper
43 100
61 21.1 17.0 25.4
87 13.5 11.4 17.2

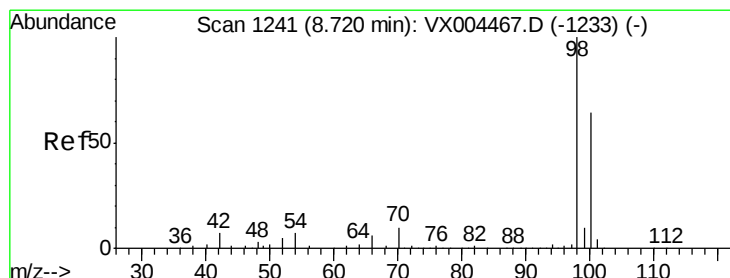
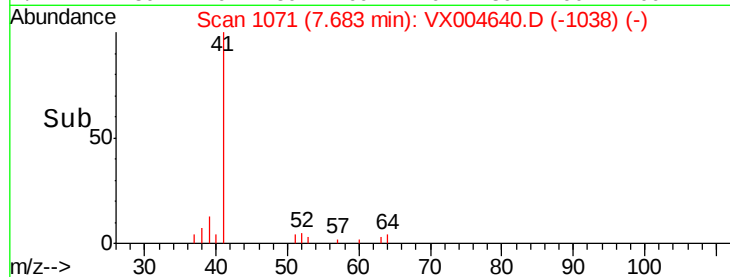
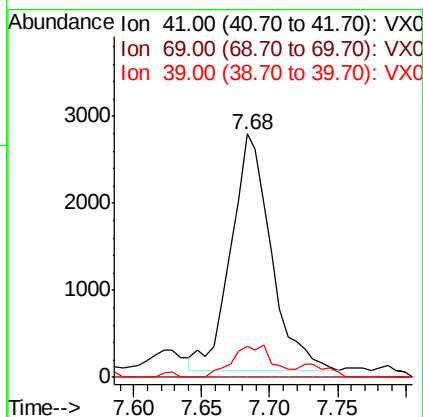
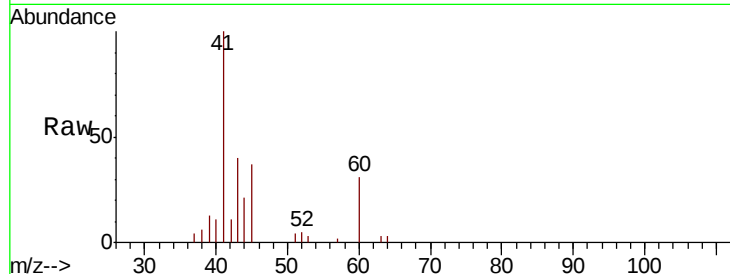




#48
Methvl methacrylate
Concen: 1.95 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

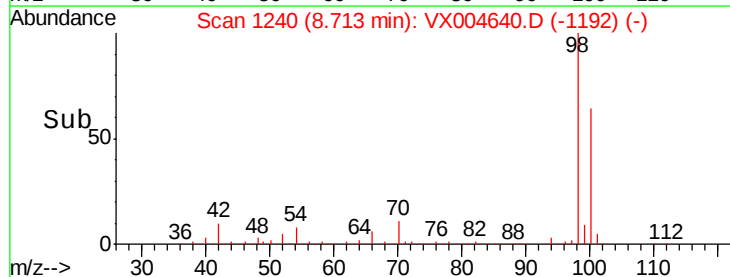
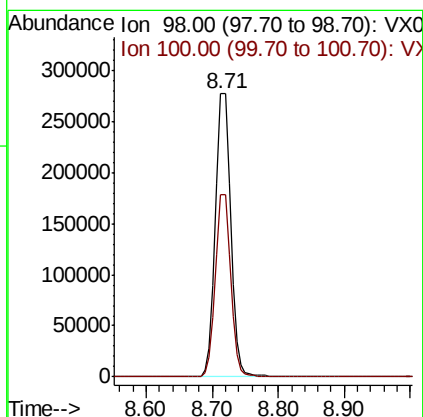
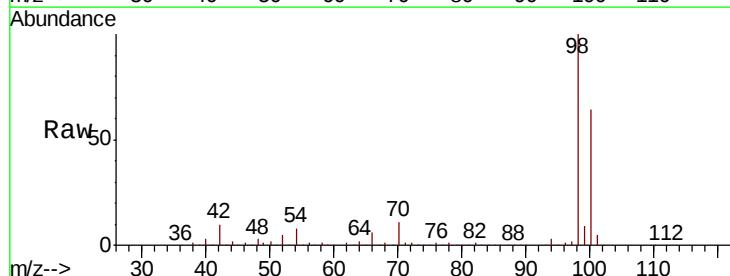
Instrument :
MSVOA_X
ClientSampleId :

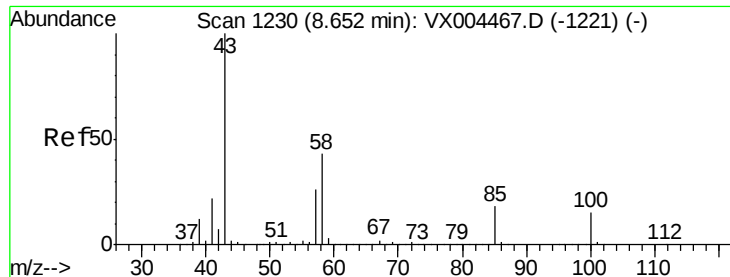
Tot Ion: 41 Resp: 5547
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 13.6 42.7 64.1#



#50
Toluene-d8
Concen: 46.20 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Tgt Ion: 98 Resp: 444595
Ion Ratio Lower Upper
98 100
100 63.9 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

Instrument :

MSVOA_X

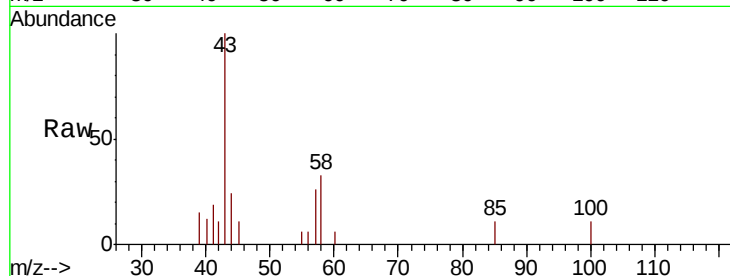
ClientSampled :

Tot Ion: 43 Resp: 1581

Ion Ratio Lower Upper

43 100

58 57.4 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

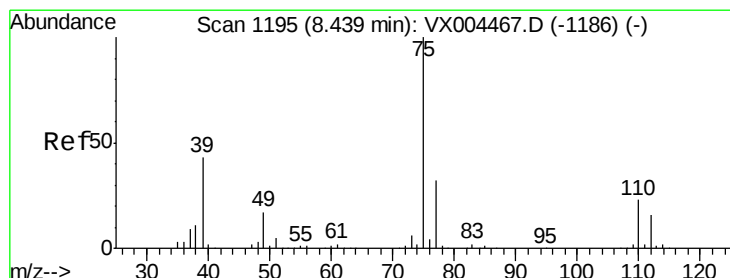
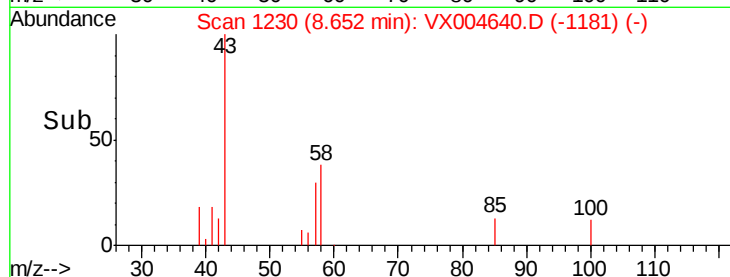
1500

1000

500

0

Time--> 8.62 8.64 8.66 8.68 8.70



#54

cis-1,3-Dichloropropene

Concen: 0.30 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004640.D

Acq: 18 Sep 2018 00:52

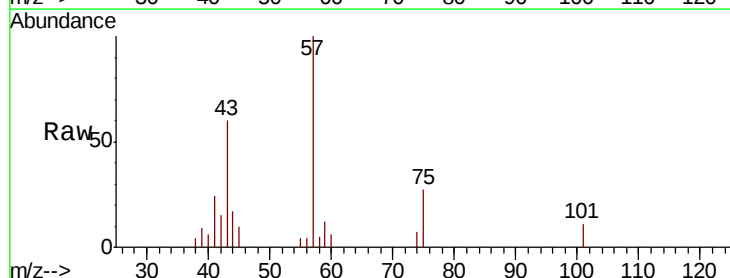
Tgt Ion: 75 Resp: 1155

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 34.3 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

800

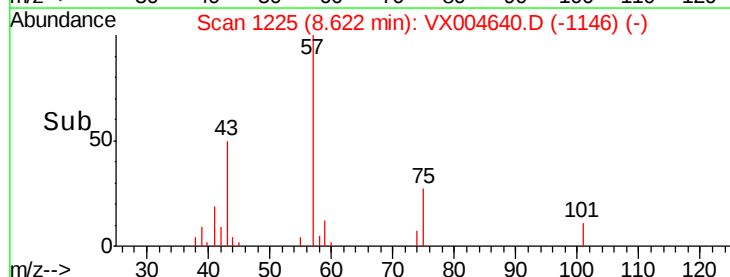
600

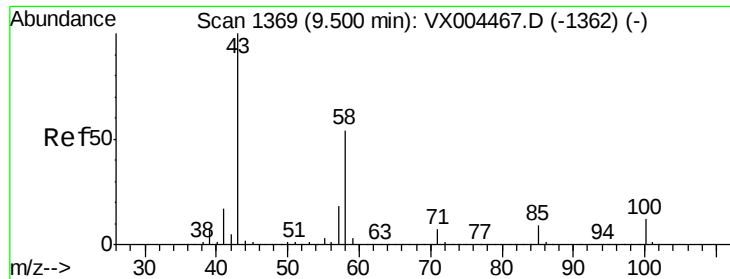
400

200

0

Time--> 8.55 8.60 8.65

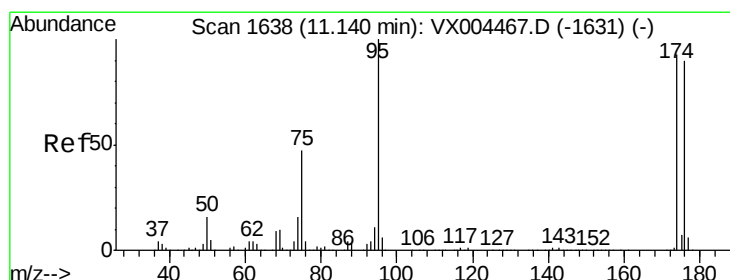
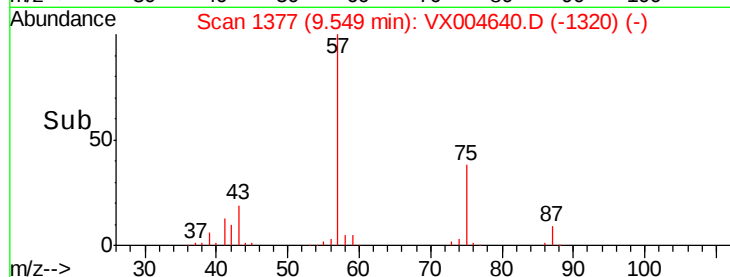
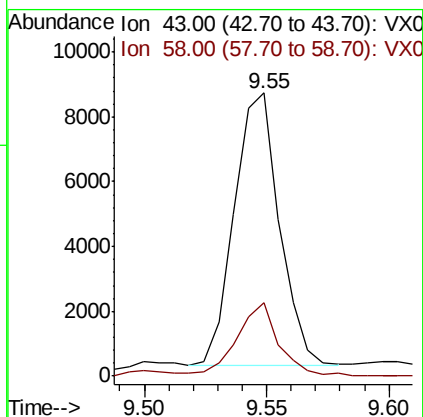
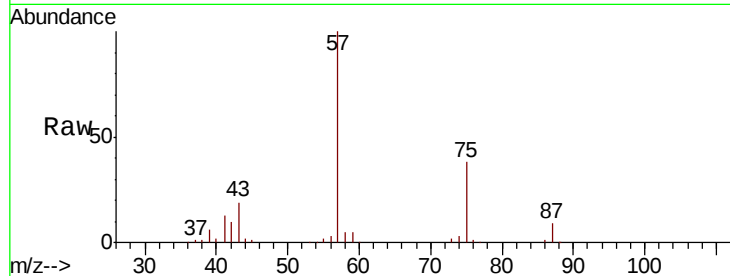




#59
2-Hexanone
Concen: 3.48 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

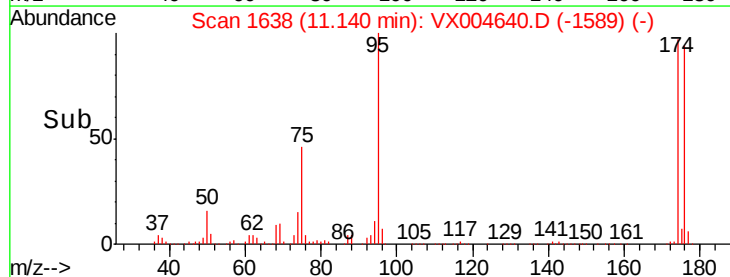
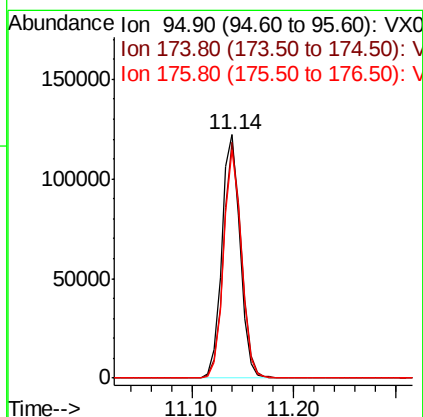
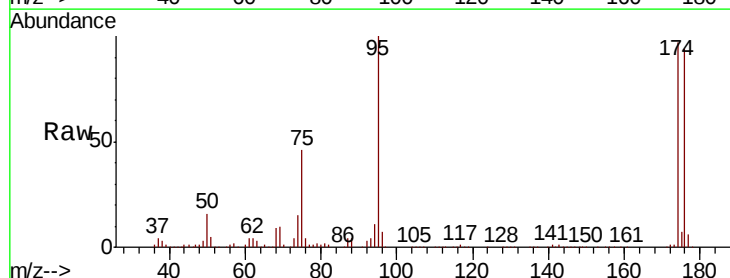
Instrument :
MSVOA_X
ClientSampleId :

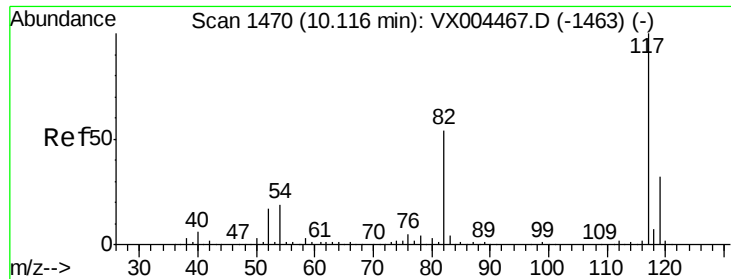
Tot Ion: 43 Resp: 10841
Ion Ratio Lower Upper
43 100
58 24.8 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 44.59 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Tgt Ion: 95 Resp: 153194
Ion Ratio Lower Upper
95 100
174 94.2 0.0 185.2
176 91.2 0.0 178.6

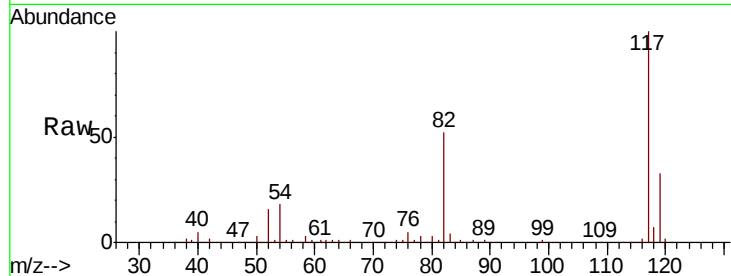




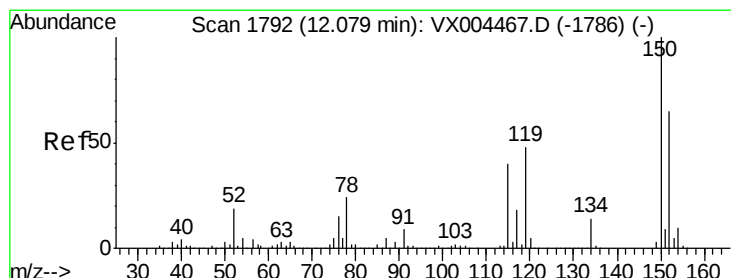
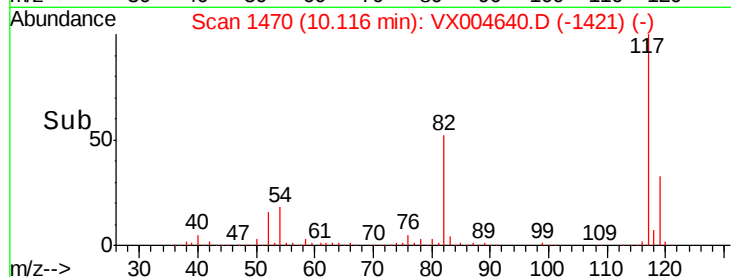
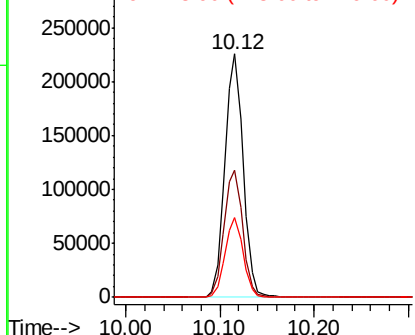
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 303996
Ion Ratio Lower Upper
117 100
82 52.3 47.8 71.6
119 32.6 29.3 43.9

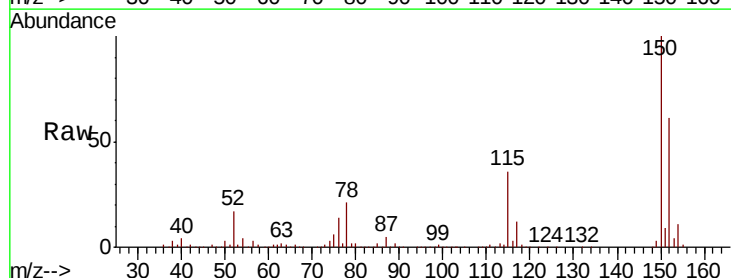


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

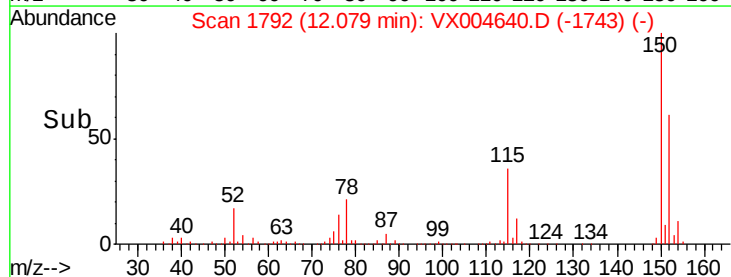
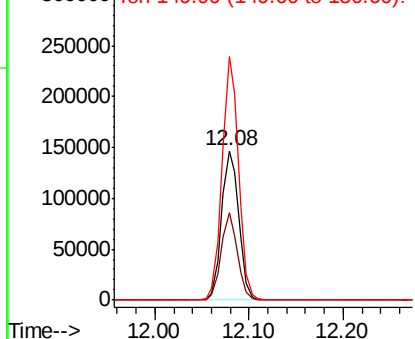


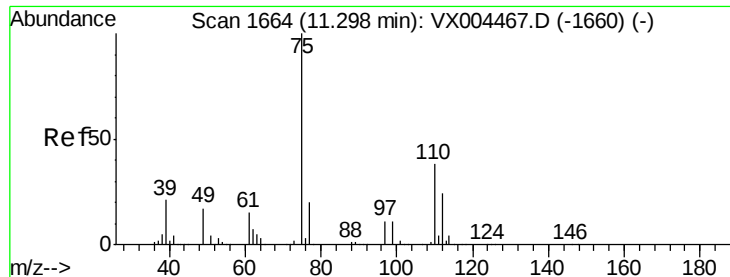
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004640.D
Acq: 18 Sep 2018 00:52

Tgt Ion:152 Resp: 184950
Ion Ratio Lower Upper
152 100
115 55.4 39.0 117.0
150 156.1 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

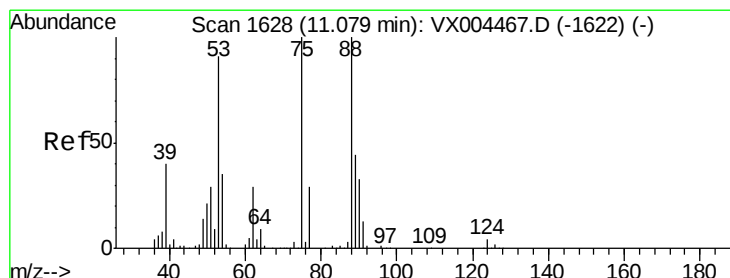
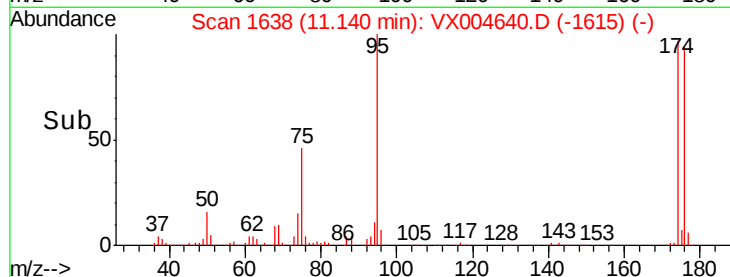
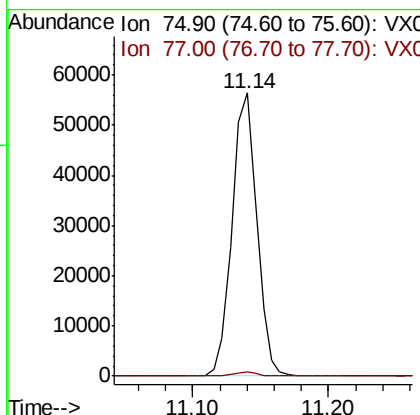
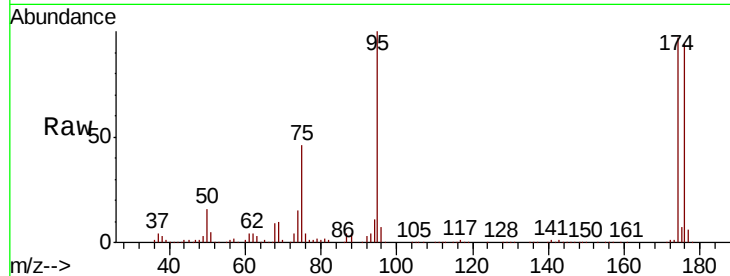




#76
 1,2,3-Trichloropropane
 Concen: 19.25 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 71641
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.37 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX004640.D
 Acq: 18 Sep 2018 00:52

Tgt Ion: 75 Resp: 71641
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

