

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005034.D
 Acq On : 04 Oct 2018 22:16
 Operator : JC/MD
 Sample : J5207-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:25:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	226071	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	354670	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187187	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	167523	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
35) Dibromofluoromethane	5.50	113	139918	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	8.72	98	511825	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.14	95	183245	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	

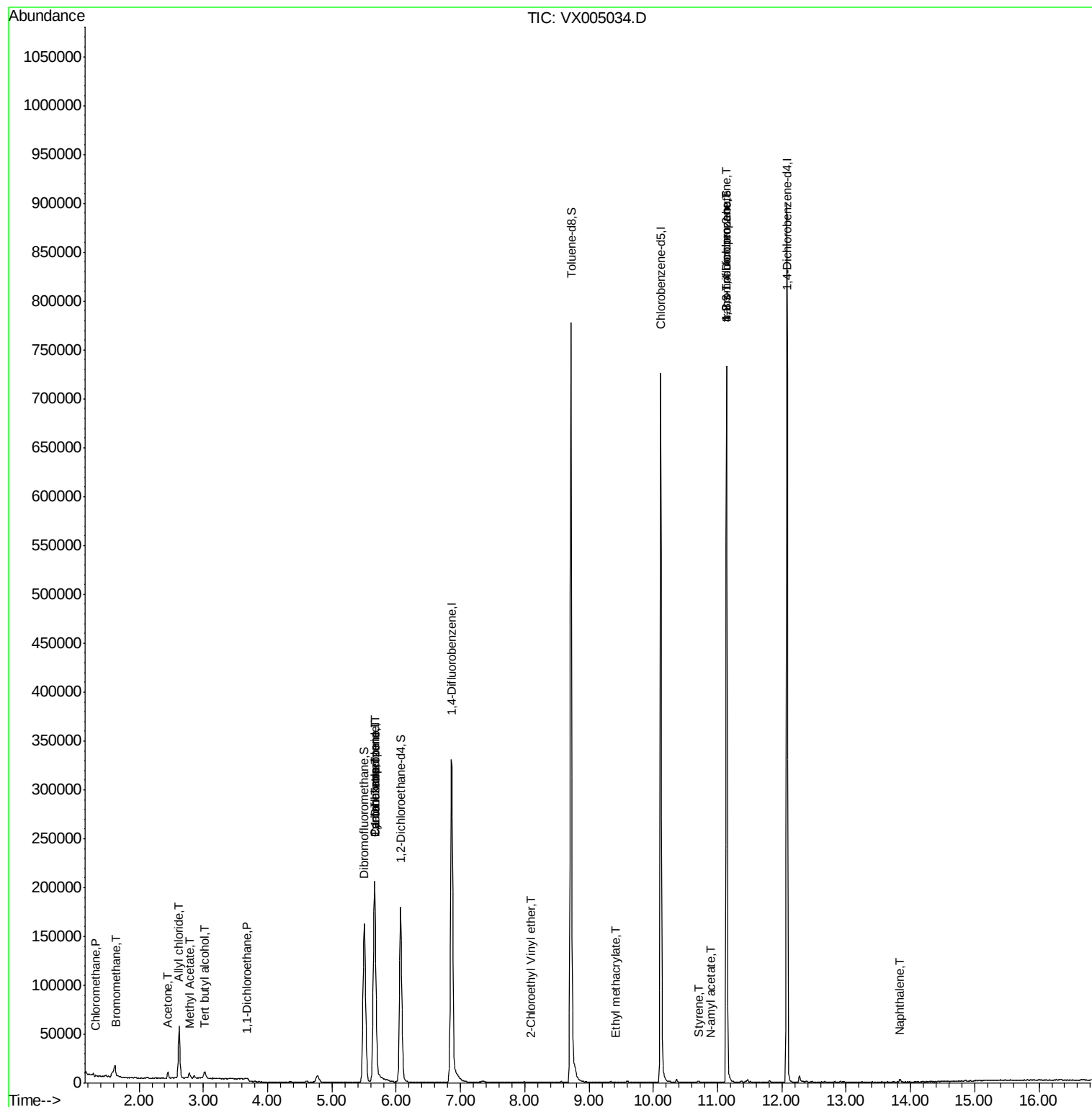
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	767	0.205	ug/l	95
5) Bromomethane	1.64	94	617	0.297	ug/l #	46
6) Chloroethane	1.69	64	123	Below Cal	#	1
11) Tert butyl alcohol	3.02	59	4308	4.771	ug/l #	81
14) Allyl chloride	2.62	41	5397	1.010	ug/l #	59
16) Acetone	2.45	43	6351	3.369	ug/l	90
18) Methyl Acetate	2.78	43	5933	1.242	ug/l	97
20) Methylene Chloride	2.86	84	981	Below Cal	#	77
24) 1,1-Dichloroethane	3.69	63	1110	0.207	ug/l #	81
31) Cyclohexane	5.66	56	3973	0.967	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14889	3.630	ug/l #	47
38) Carbon Tetrachloride	5.67	117	19342	4.487	ug/l #	18
56) Ethyl methacrylate	9.41	69	28	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.10	63	21	14.250	ug/l #	49
70) Styrene	10.71	104	74	2.148	ug/l #	6
74) N-amyl acetate	10.89	43	50	1.755	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	89821	21.409	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	374	Below Cal		91
81) trans-1,4-Dichloro-2-buten	11.14	75	89821	58.056	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1071	Below Cal		96
95) Naphthalene	13.83	128	1642	0.823	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

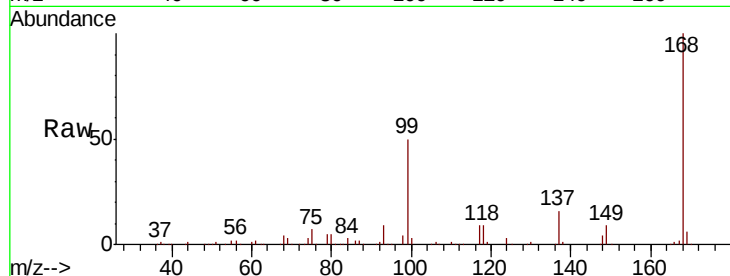
ClientSampled :

Tot Ion:168 Resp: 226071

Ion Ratio Lower Upper

168 100

99 50.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

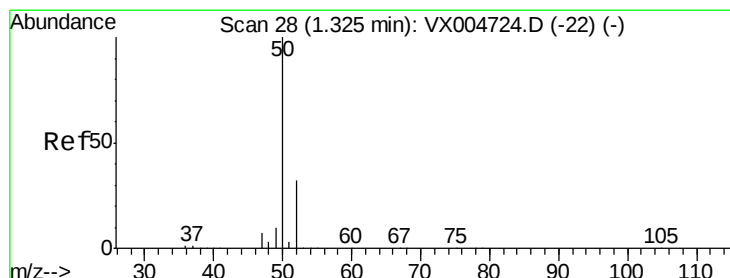
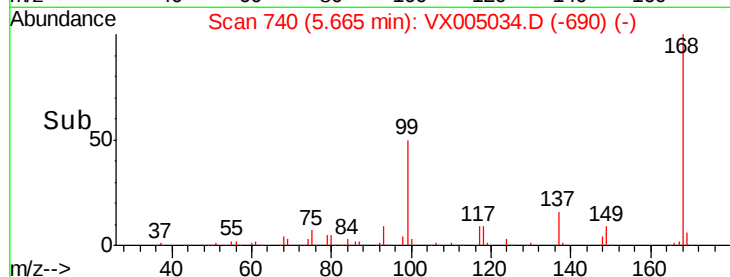
40000

20000

0

Time-->

5.60 5.80 6.00



#3

Chloromethane

Concen: 0.205 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005034.D

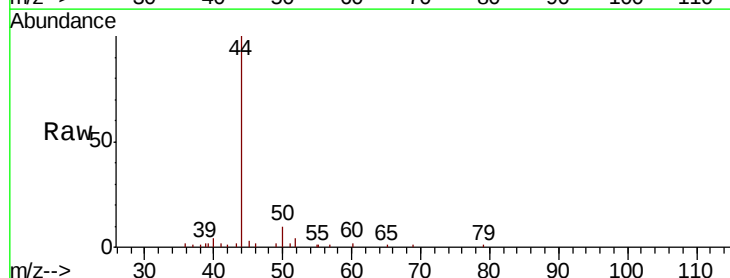
Acq: 04 Oct 2018 22:16

Tgt Ion: 50 Resp: 767

Ion Ratio Lower Upper

50 100

52 35.0 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

300

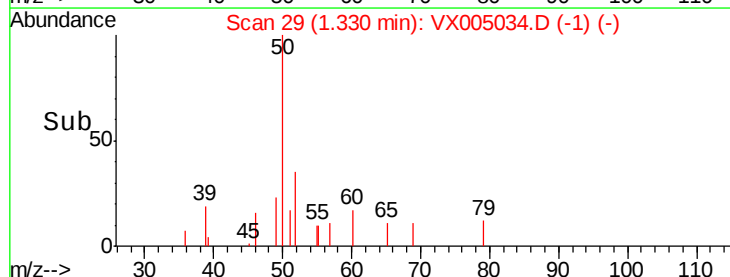
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.297 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

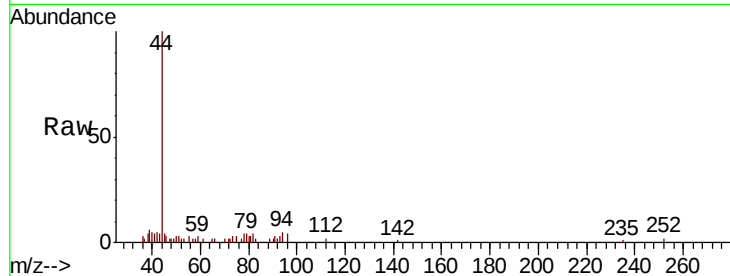
ClientSampled :

Tot Ion: 94 Resp: 617

Ion Ratio Lower Upper

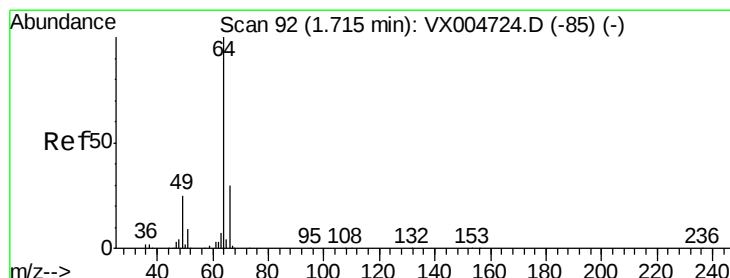
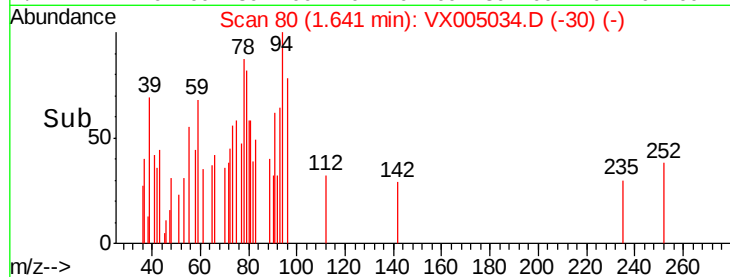
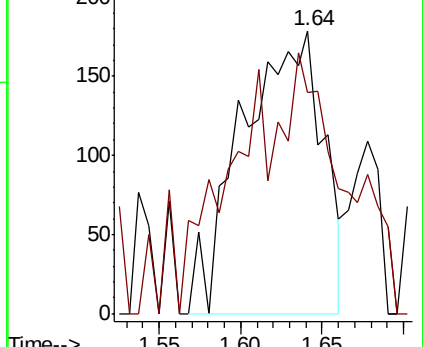
94 100

96 45.3 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX005034.D

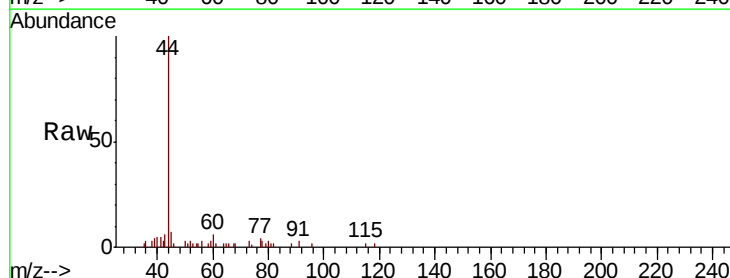
Acq: 04 Oct 2018 22:16

Tgt Ion: 64 Resp: 123

Ion Ratio Lower Upper

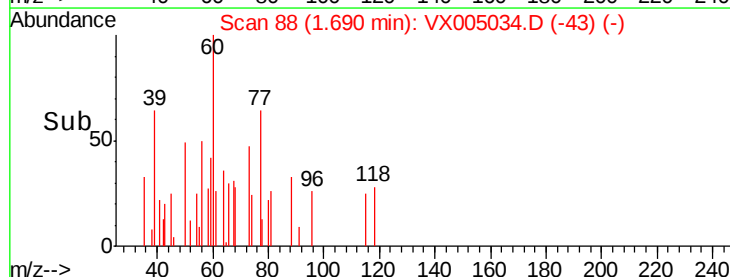
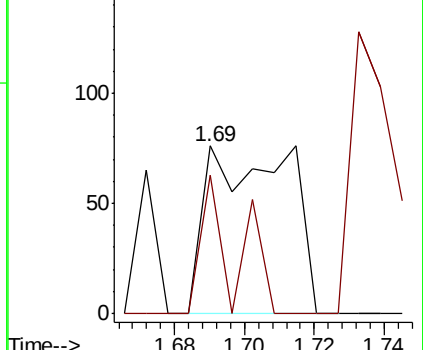
64 100

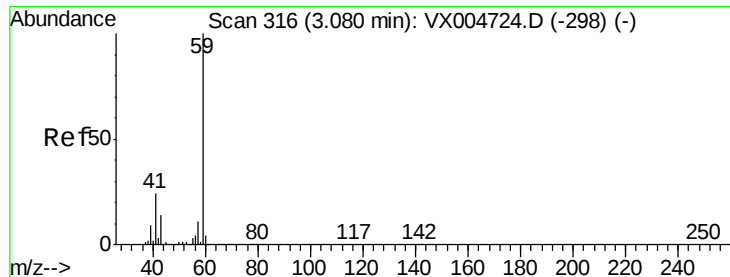
66 82.9 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



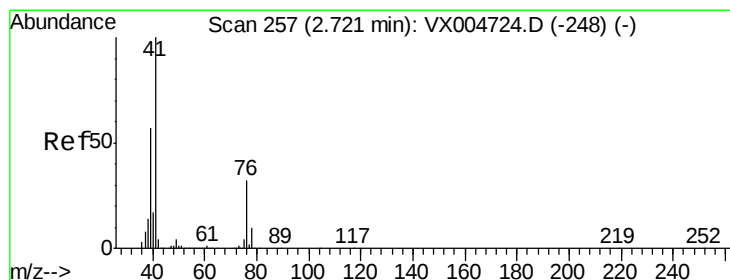
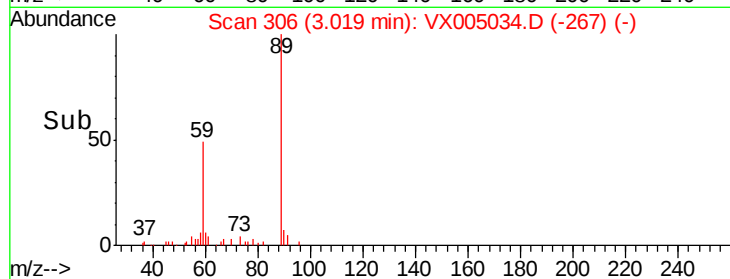
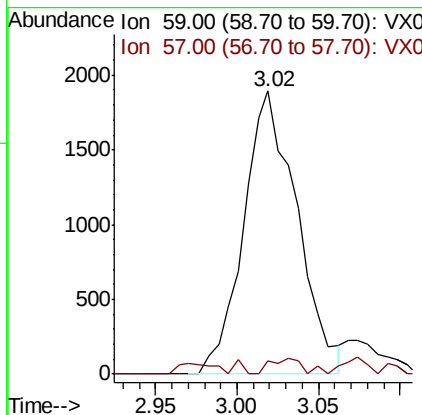
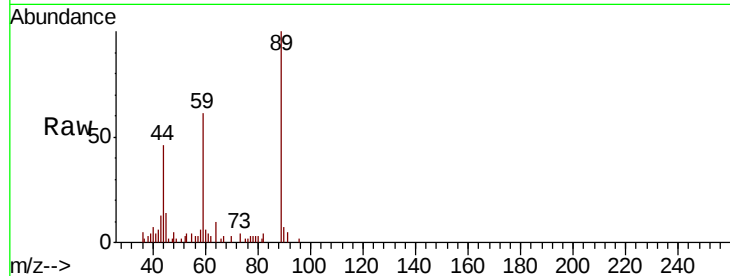


#11

Tert butyl alcohol
 Concen: 4.771 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005034.D
 Acq: 04 Oct 2018 22:16

Instrument :
 MSVOA_X
 ClientSampleId :

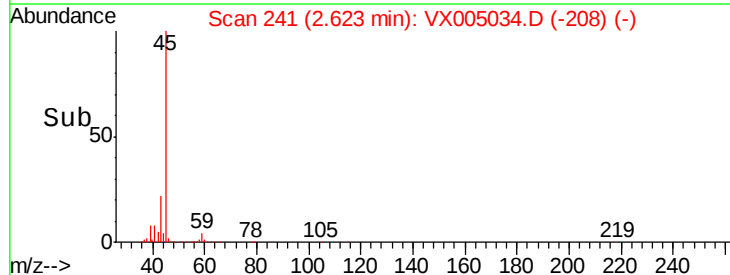
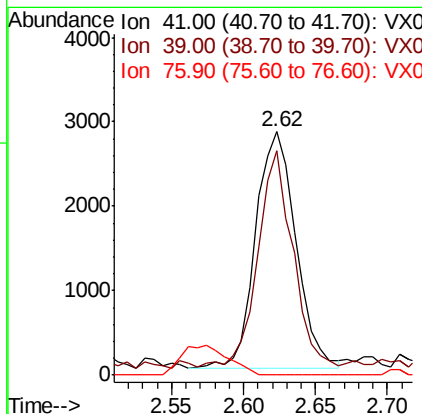
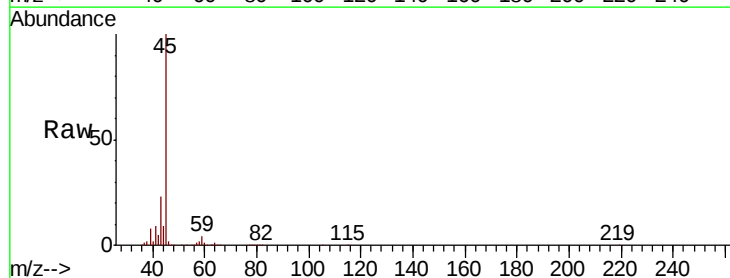
Tot Ion: 59 Resp: 4308
 Ion Ratio Lower Upper
 59 100
 57 3.5 8.6 12.8#

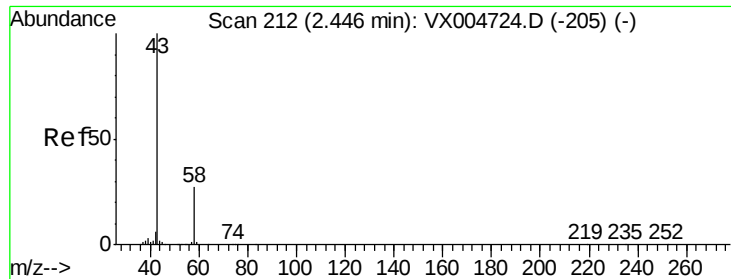


#14

Allyl chloride
 Concen: 1.010 ug/l
 RT: 2.62 min Scan# 241
 Delta R.T. -0.10 min
 Lab File: VX005034.D
 Acq: 04 Oct 2018 22:16

Tgt Ion: 41 Resp: 5397
 Ion Ratio Lower Upper
 41 100
 39 78.8 44.1 66.1#
 76 0.0 25.0 37.4#





#16

Acetone

Concen: 3.369 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

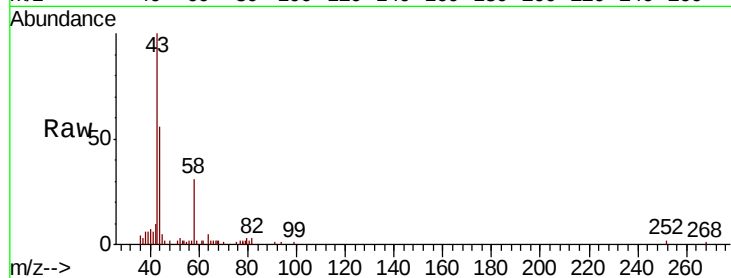
ClientSampleId :

Tot Ion: 43 Resp: 6351

Ion Ratio Lower Upper

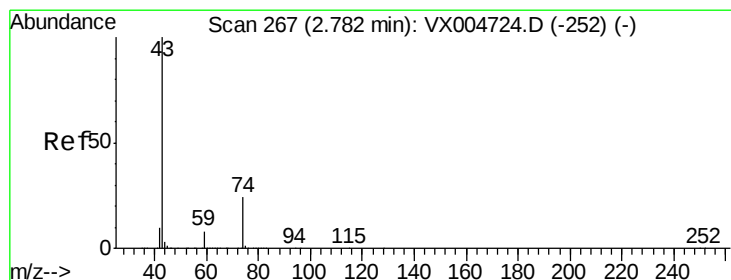
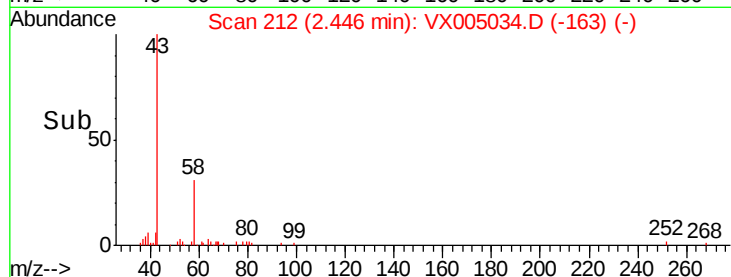
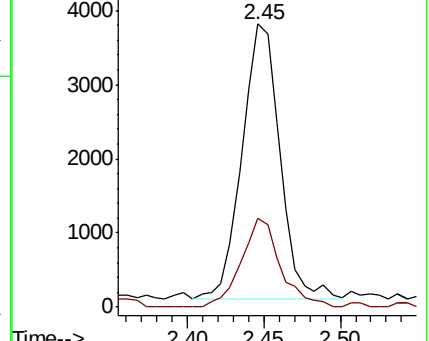
43 100

58 32.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.242 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005034.D

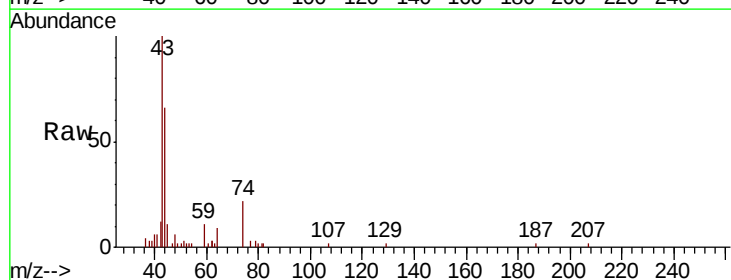
Acq: 04 Oct 2018 22:16

Tgt Ion: 43 Resp: 5933

Ion Ratio Lower Upper

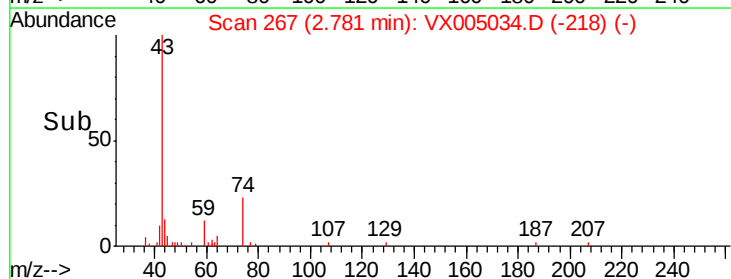
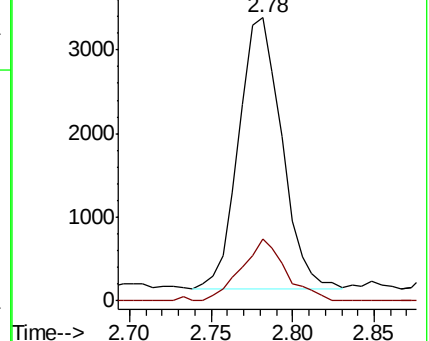
43 100

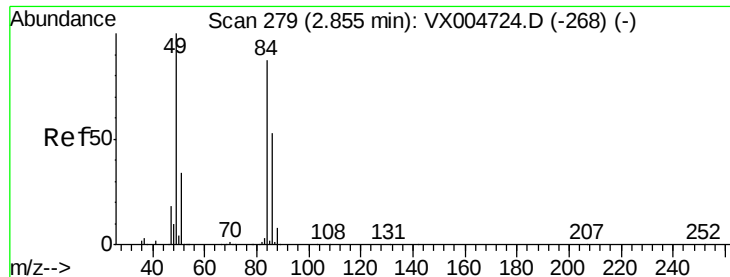
74 23.6 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

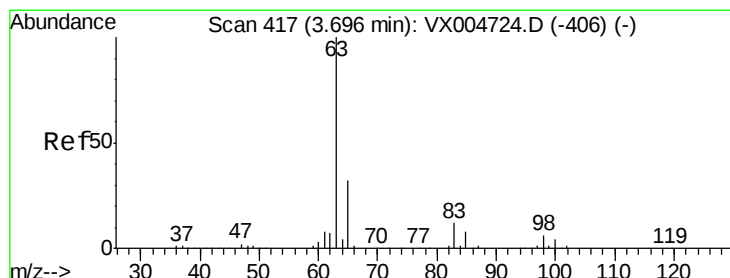
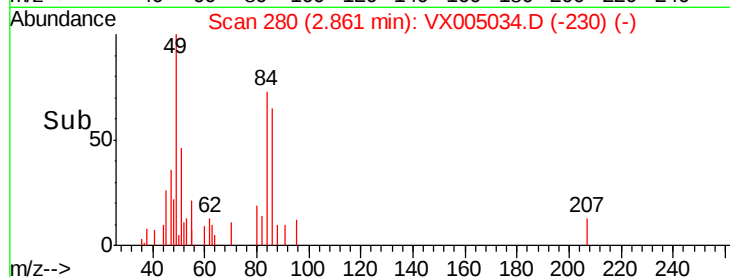
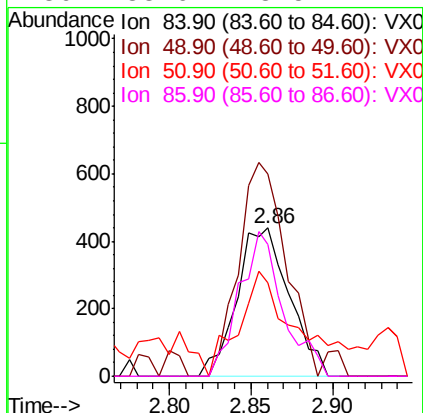
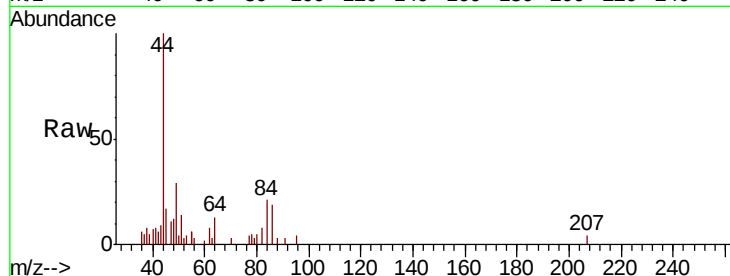




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

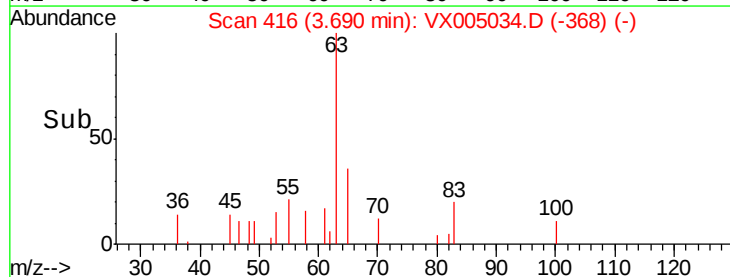
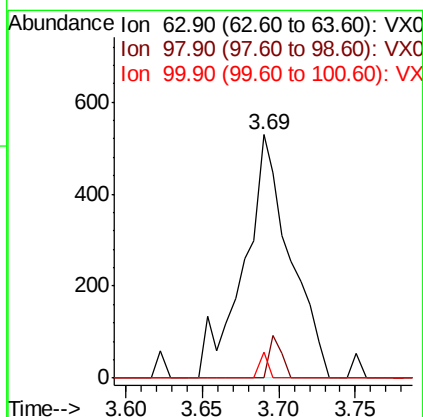
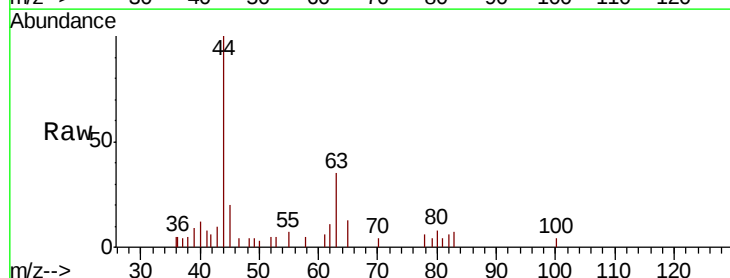
Instrument :
MSVOA_X
ClientSampleId :

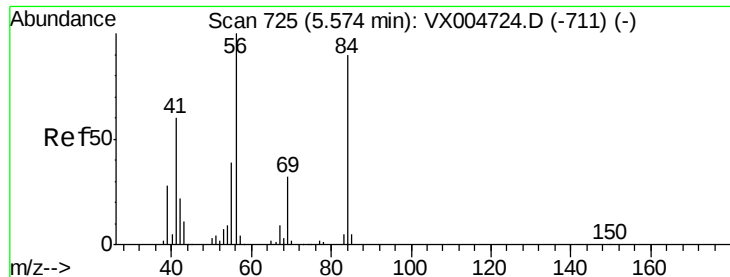
Tot Ion: 84 Resp: 981
Ion Ratio Lower Upper
84 100
49 136.1 92.3 138.5
51 46.8 31.8 47.6
86 88.6 48.5 72.7#



#24
1,1-Dichloroethane
Concen: 0.207 ug/l
RT: 3.69 min Scan# 416
Delta R.T. -0.01 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion: 63 Resp: 1110
Ion Ratio Lower Upper
63 100
98 0.0 3.0 9.2#
100 10.6 2.0 5.8#

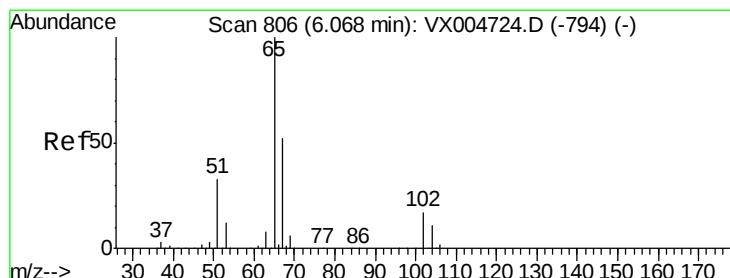
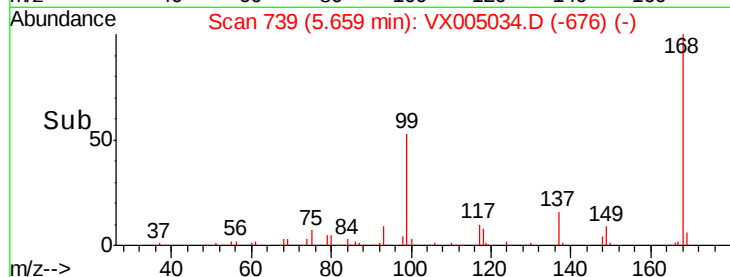
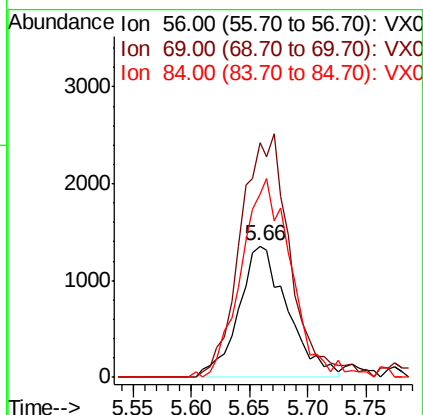
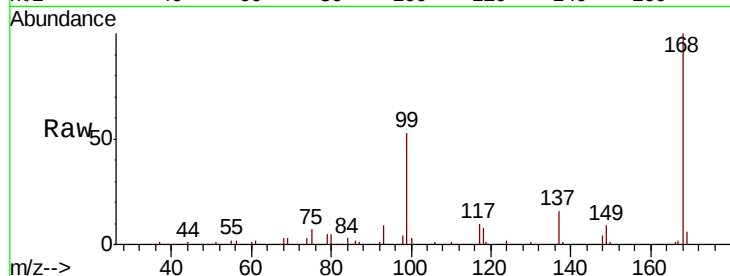




#31
Cyclohexane
Concen: 0.967 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

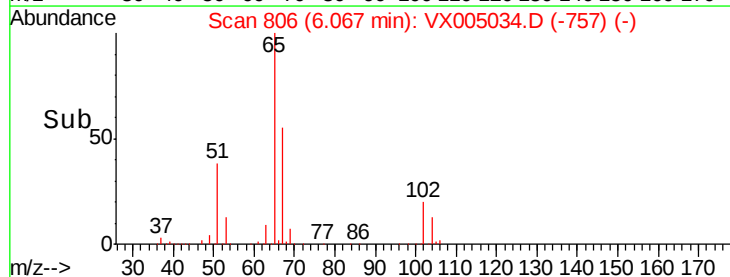
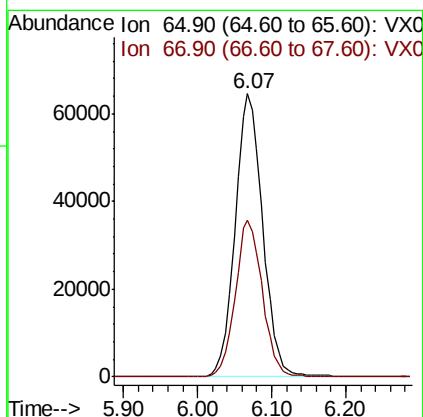
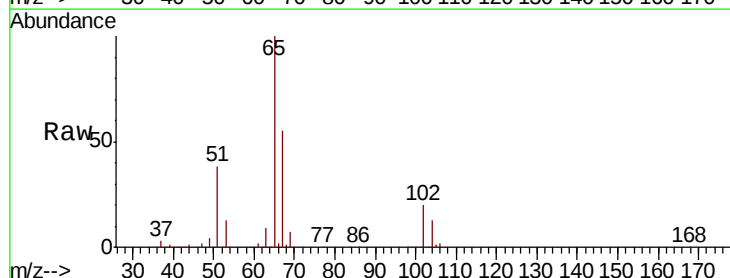
Instrument :
MSVOA_X
ClientSampled :

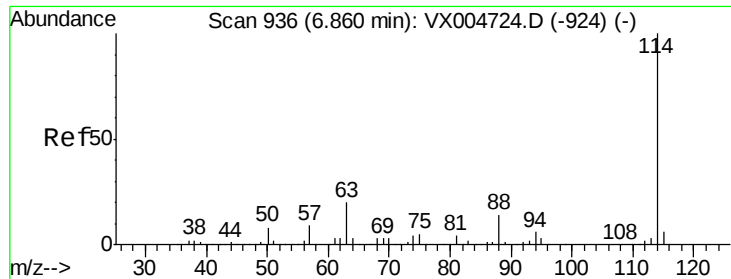
Tot Ion: 56 Resp: 3973
Ion Ratio Lower Upper
56 100
69 178.9 25.9 38.9#
84 139.4 71.9 107.9#



#33
1,2-Dichloroethane-d4
Concen: 51.874 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion: 65 Resp: 167523
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.4

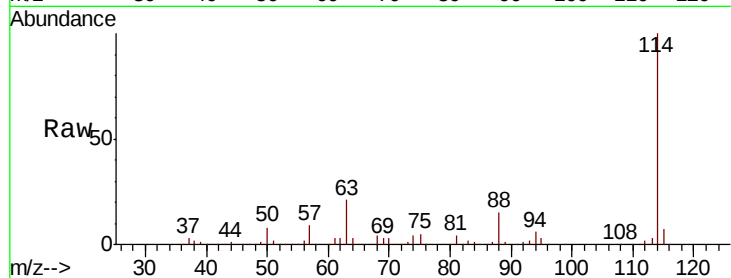




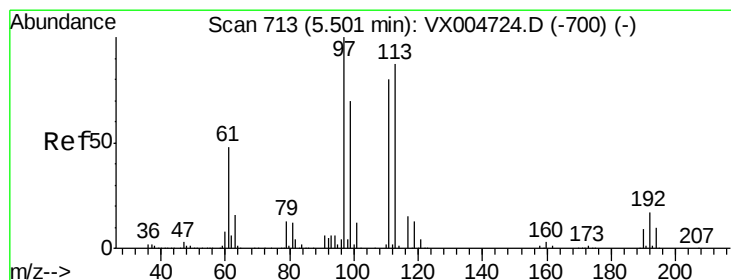
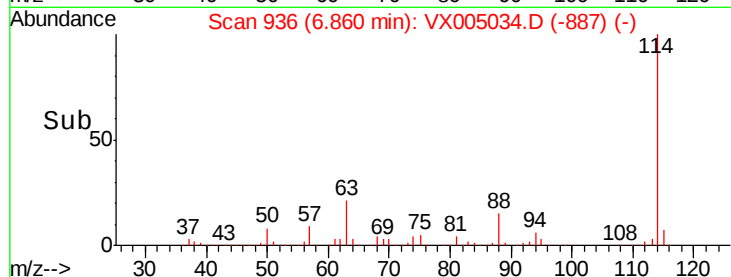
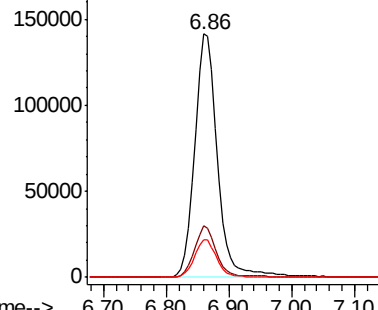
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 354670
Ion Ratio Lower Upper
114 100
63 21.1 0.0 39.8
88 15.4 0.0 27.0

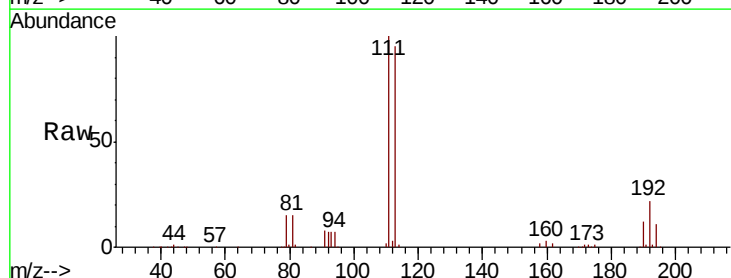


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

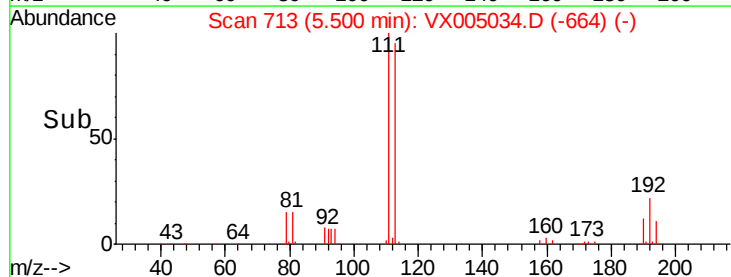
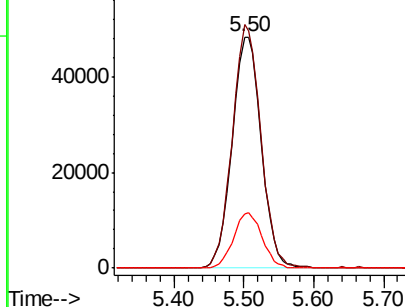


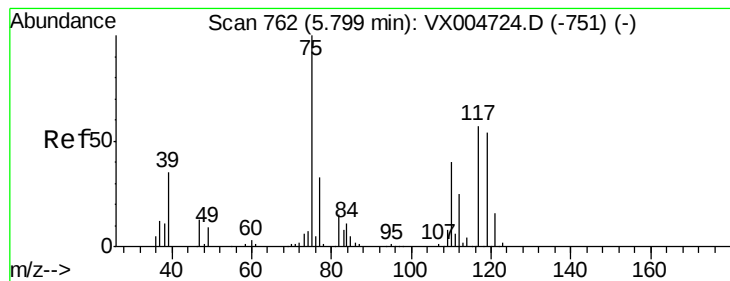
#35
Dibromofluoromethane
Concen: 46.548 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion:113 Resp: 139918
Ion Ratio Lower Upper
113 100
111 102.9 77.0 115.4
192 23.6 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.630 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

ClientSampleId :

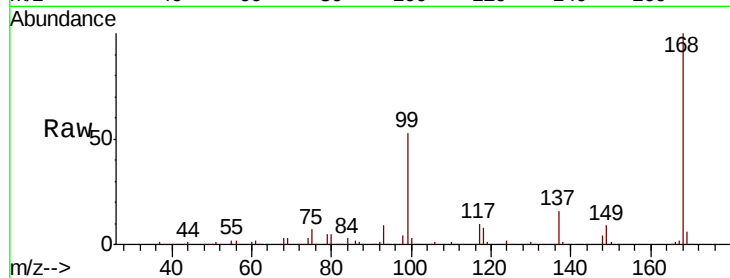
Tot Ion: 75 Resp: 14889

Ion Ratio Lower Upper

75 100

110 10.2 20.0 59.9#

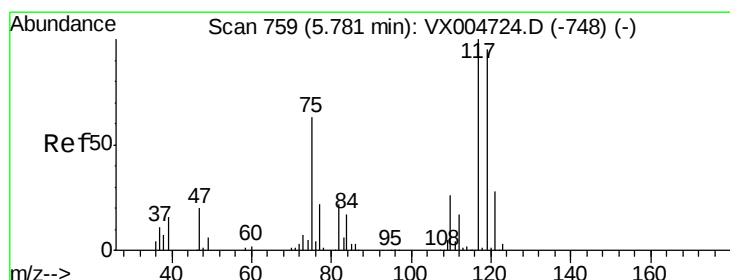
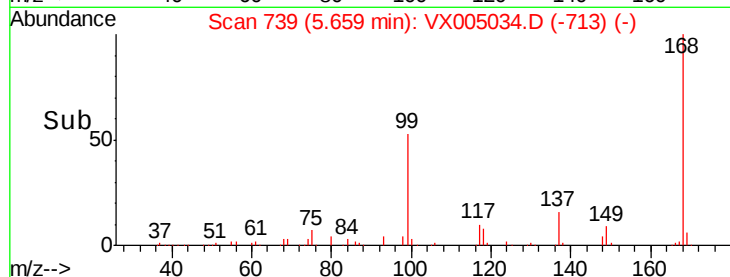
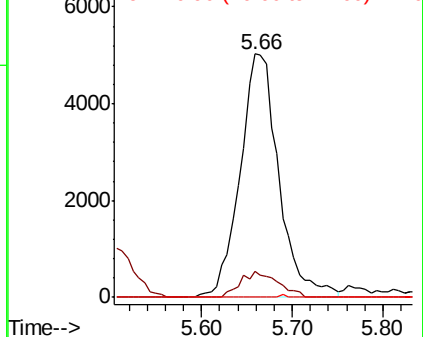
77 0.0 27.1 40.7#



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: 4.487 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

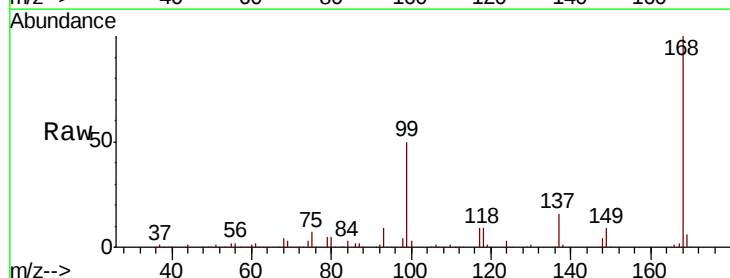
Tgt Ion: 117 Resp: 19342

Ion Ratio Lower Upper

117 100

119 6.0 75.2 112.8#

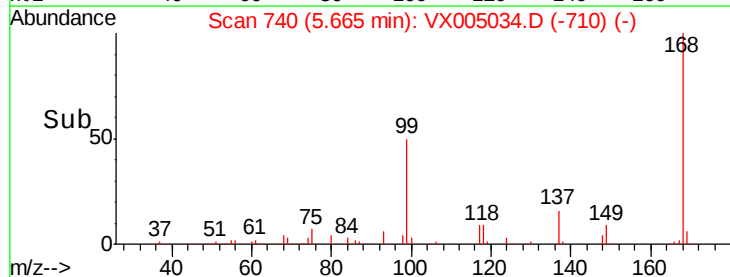
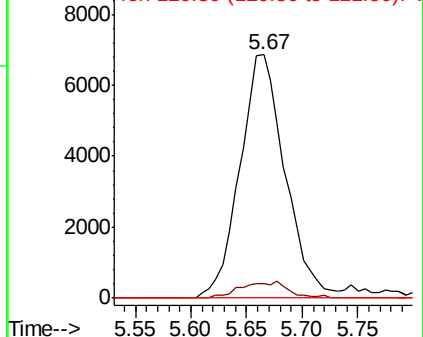
121 0.0 22.5 33.7#

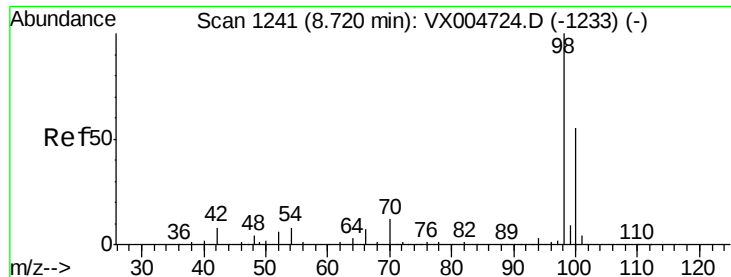


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

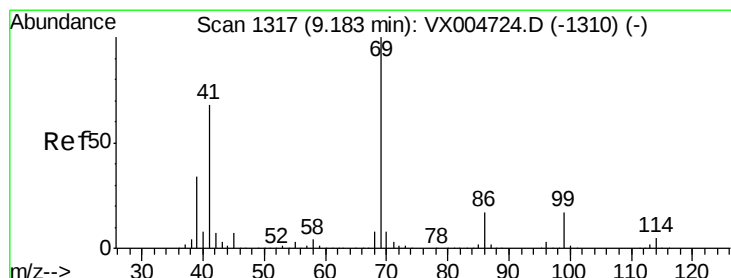
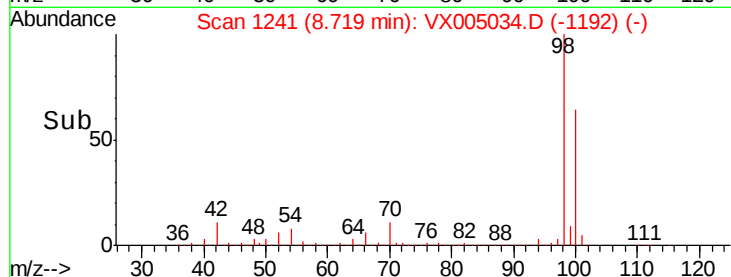
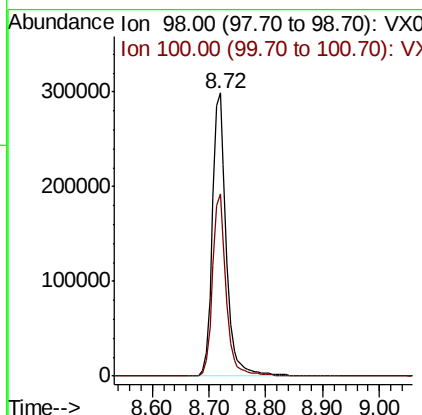
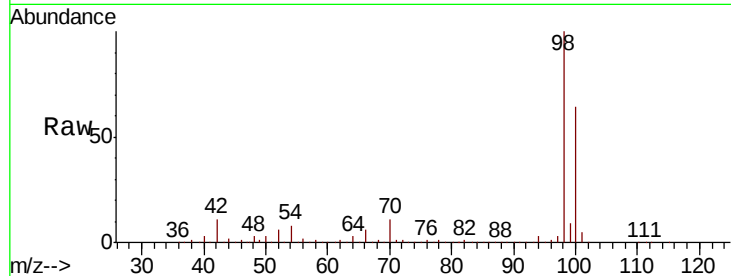




#50
Toluene-d8
Concen: 51.218 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

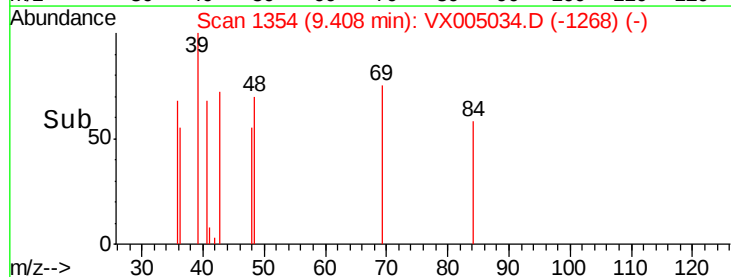
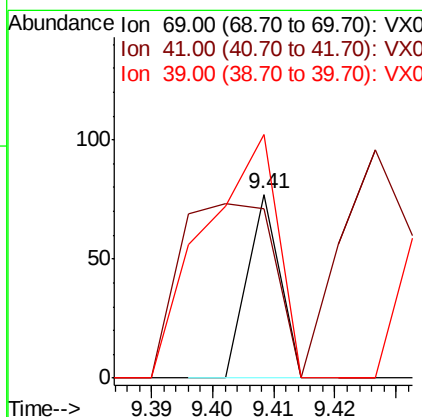
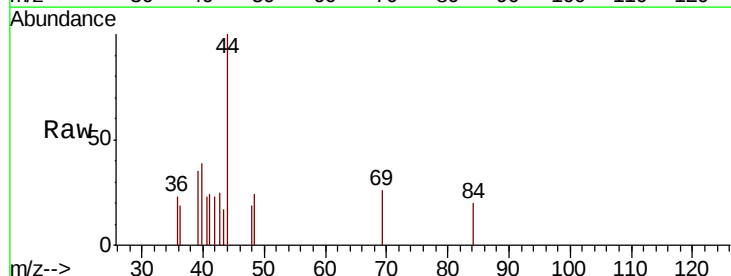
Instrument :
MSVOA_X
ClientSampleId :

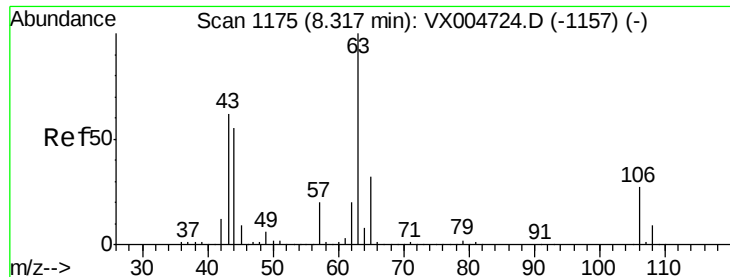
Tot Ion: 98 Resp: 511825
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.867 ug/l
RT: 9.41 min Scan# 1354
Delta R.T. 0.23 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion: 69 Resp: 28
Ion Ratio Lower Upper
69 100
41 278.6 56.9 85.3#
39 300.0 28.4 42.6#

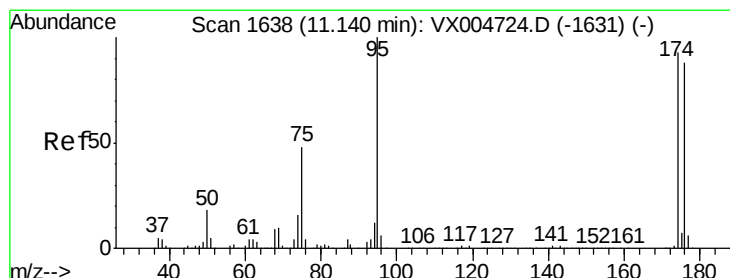
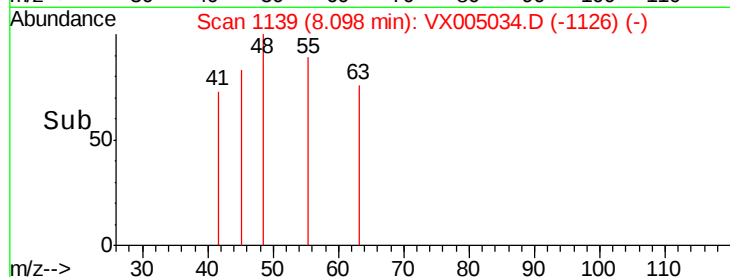
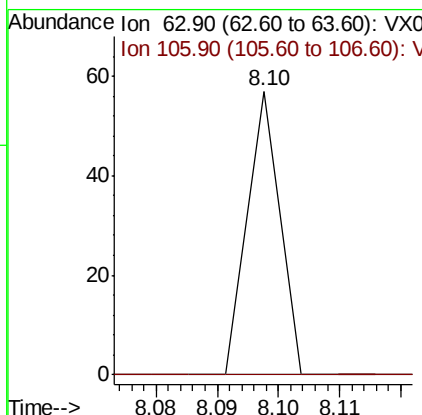
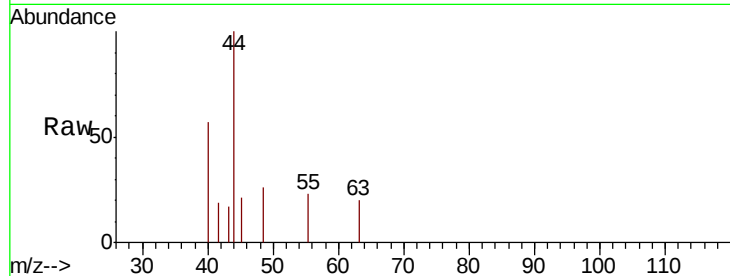




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.250 ug/l
 RT: 8.10 min Scan# 1139
 Delta R.T. -0.22 min
 Lab File: VX005034.D
 Acq: 04 Oct 2018 22:16

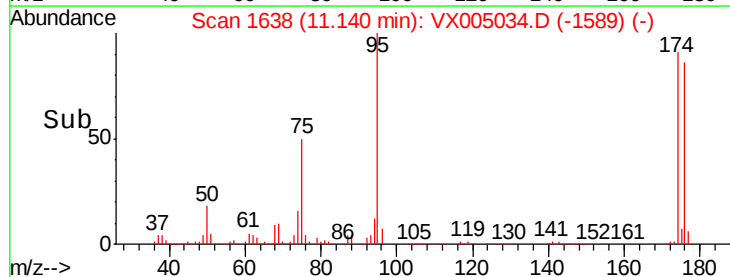
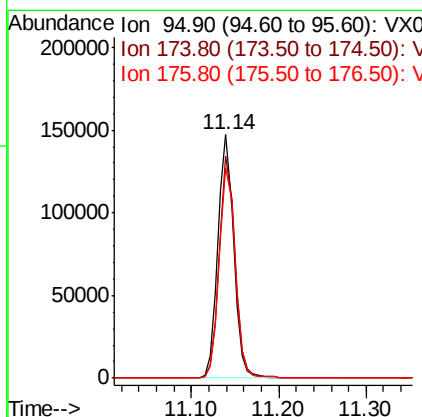
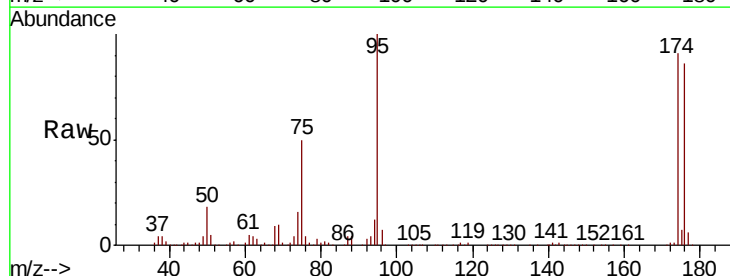
Instrument :
 MSVOA_X
 ClientSampleId :

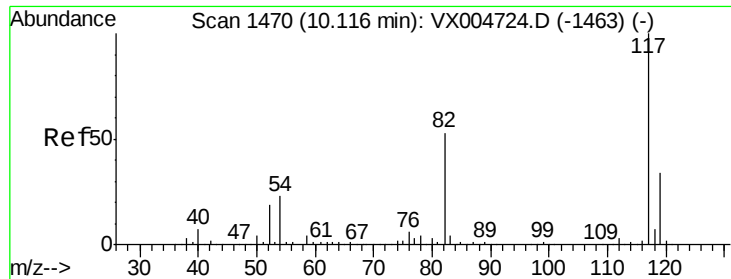
Tot Ion: 63 Resp: 21
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#62
 4-Bromofluorobenzene
 Concen: 50.901 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX005034.D
 Acq: 04 Oct 2018 22:16

Tgt Ion: 95 Resp: 183245
 Ion Ratio Lower Upper
 95 100
 174 91.3 0.0 185.0
 176 87.8 0.0 180.2

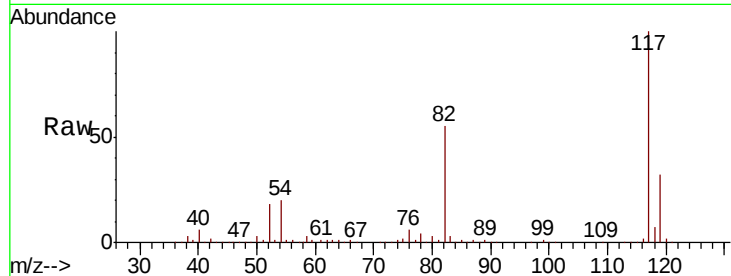




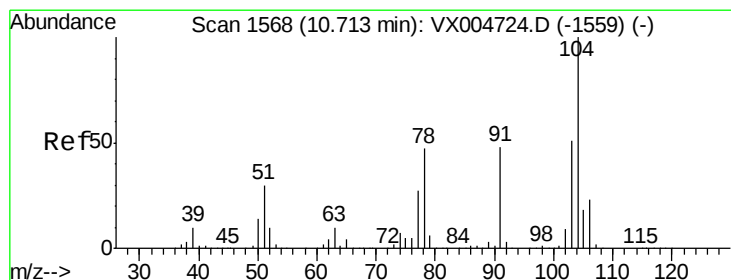
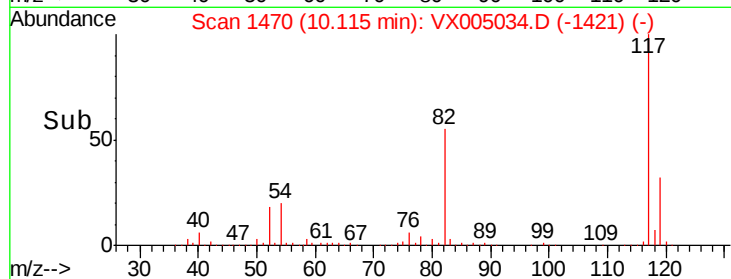
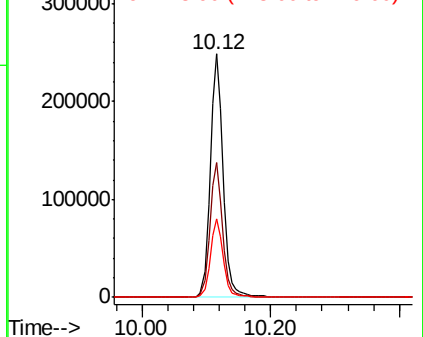
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 346369
Ion Ratio Lower Upper
117 100
82 55.3 42.2 63.4
119 32.3 27.4 41.0

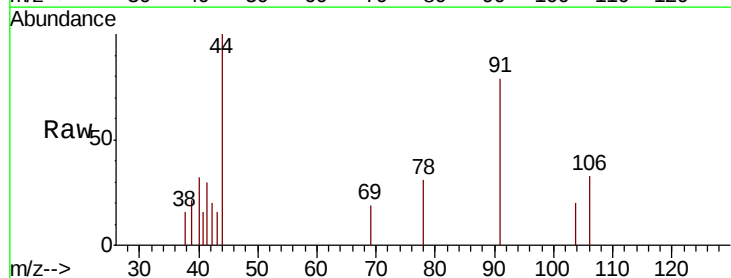


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

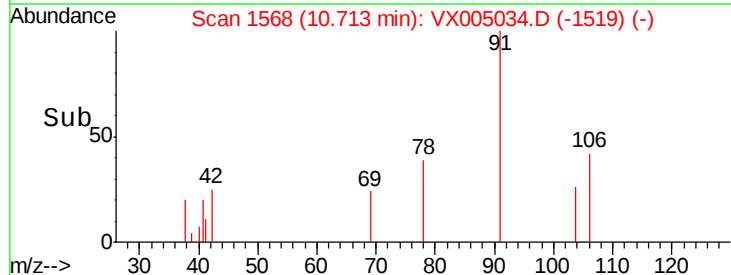
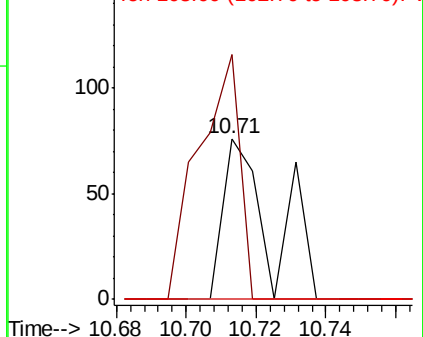


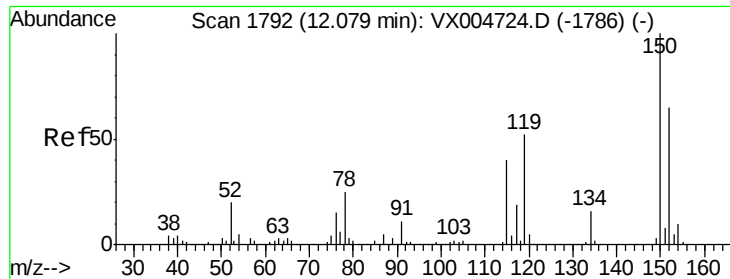
#70
Styrene
Concen: 2.148 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion:104 Resp: 74
Ion Ratio Lower Upper
104 100
78 128.4 40.0 60.0#
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V



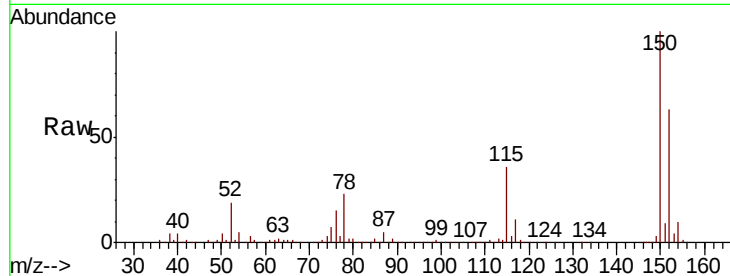


#72

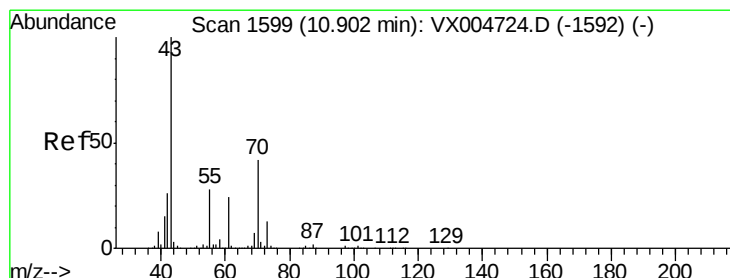
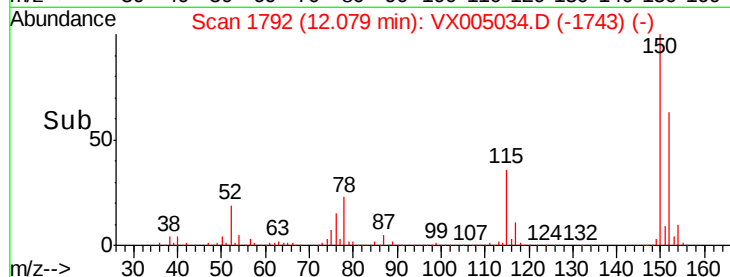
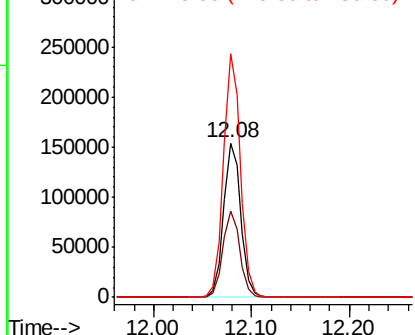
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 187187
Ion Ratio Lower Upper
152 100
115 55.8 40.2 120.6
150 156.3 0.0 351.0



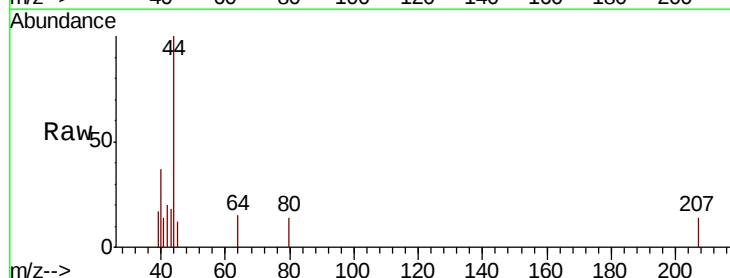
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



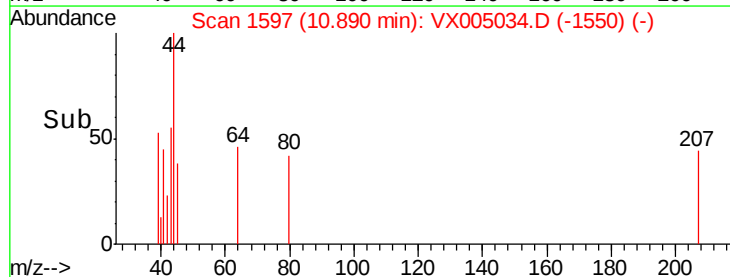
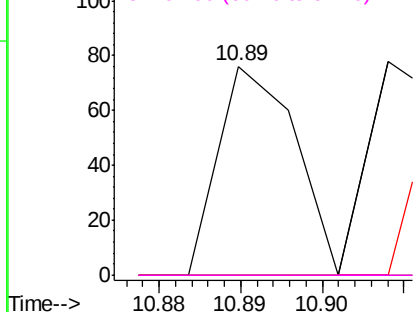
#74

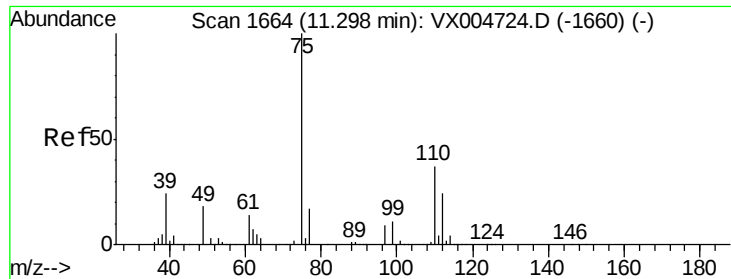
N-ethyl acetate
Concen: 1.755 ug/l
RT: 10.89 min Scan# 1597
Delta R.T. -0.01 min
Lab File: VX005034.D
Acq: 04 Oct 2018 22:16

Tgt Ion: 43 Resp: 50
Ion Ratio Lower Upper
43 100
70 0.0 32.6 48.8#
55 0.0 21.6 32.4#
61 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.409 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

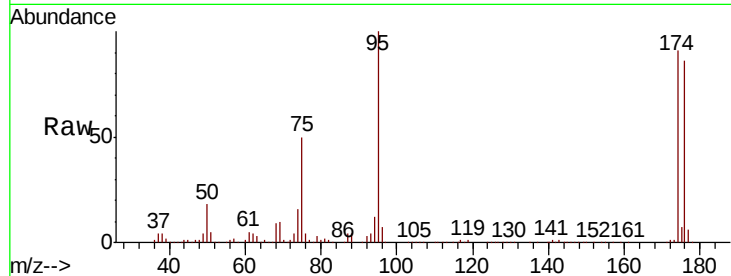
ClientSampleId :

Tot Ion: 75 Resp: 89821

Ion Ratio Lower Upper

75 100

77 1.4 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

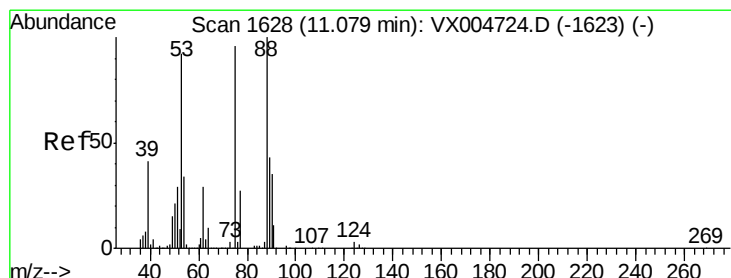
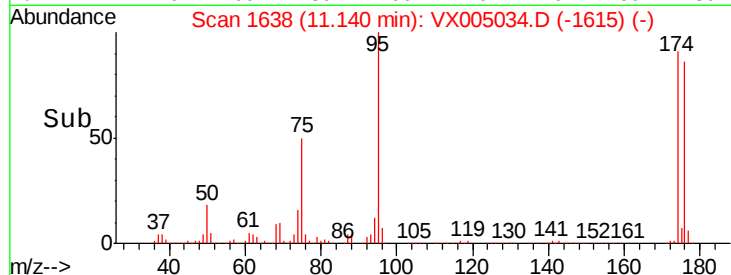
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 58.056 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

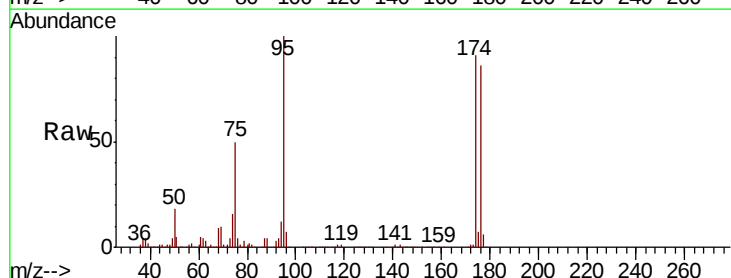
Tgt Ion: 75 Resp: 89821

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

89 0.0 37.1 55.7#



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

100000

80000

60000

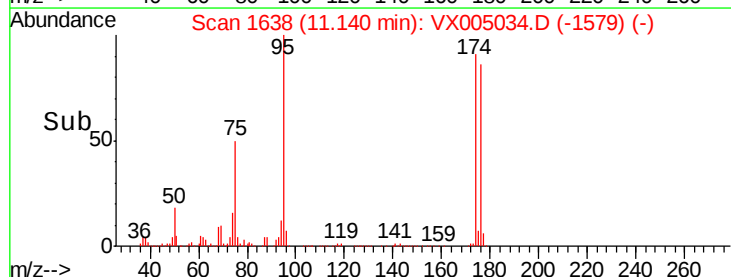
40000

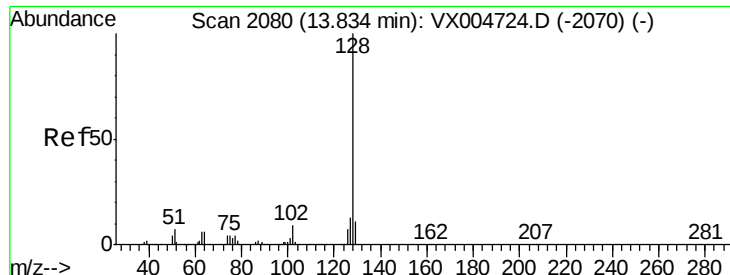
20000

0

11.10 11.20

Time-->





#95

Naphthalene

Concen: 0.823 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005034.D

Acq: 04 Oct 2018 22:16

Instrument :

MSVOA_X

ClientSampleId :

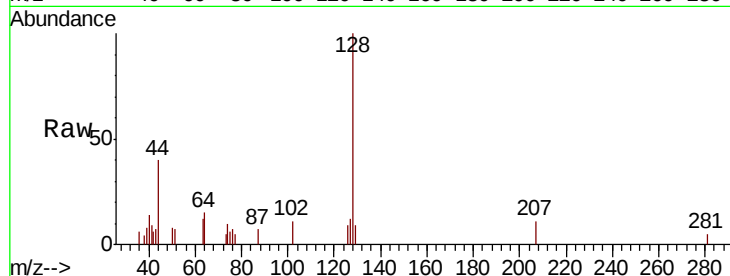
Tot Ion:128 Resp: 1642

Ion Ratio Lower Upper

128 100

127 11.9 10.4 15.6

129 10.1 8.7 13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

