

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005032.D
 Acq On : 04 Oct 2018 21:22
 Operator : JC/MD
 Sample : J5207-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:24:37 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

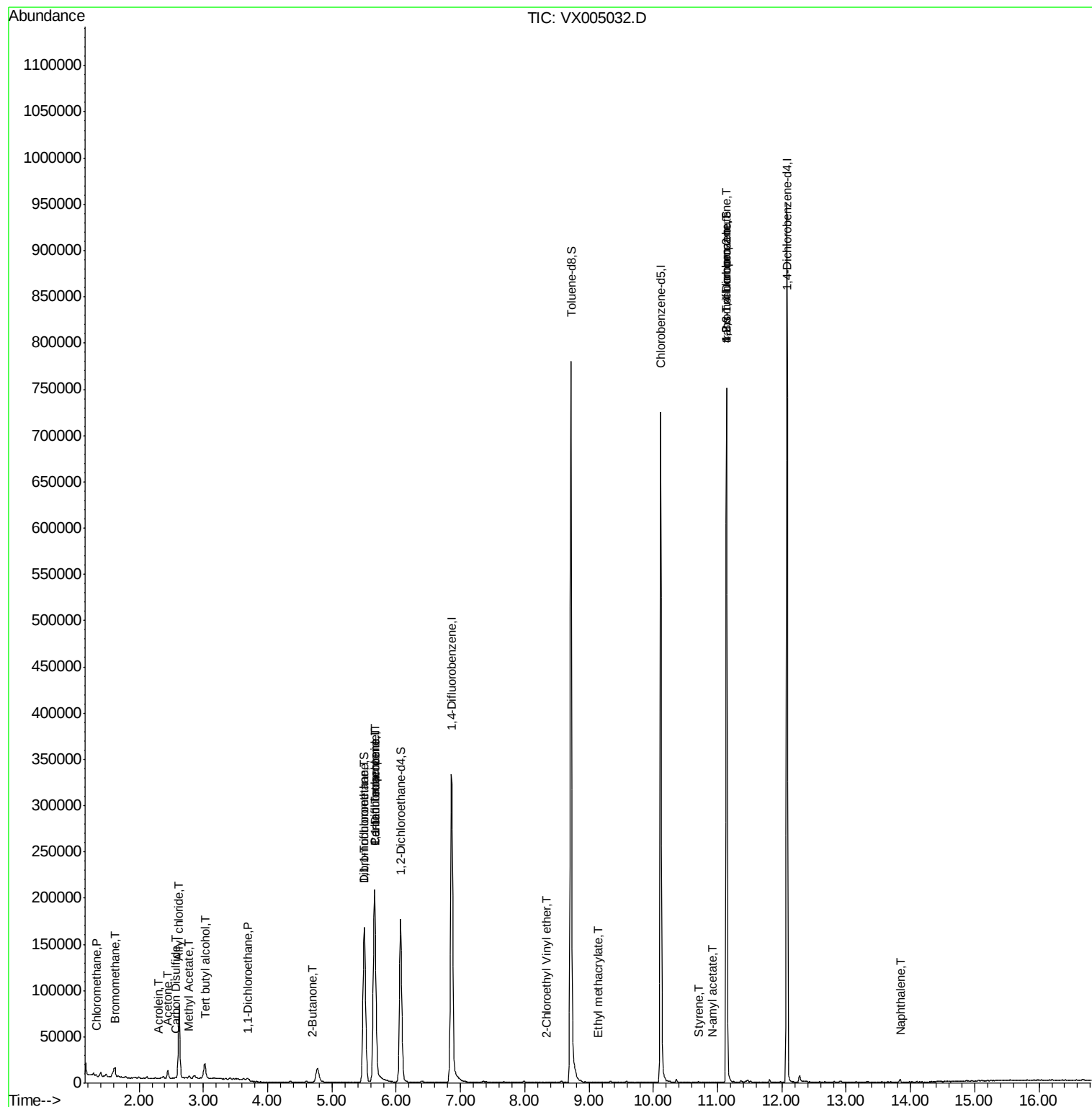
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222415	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	361463	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196395	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	165555	52.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.22%	
35) Dibromofluoromethane	5.50	113	142005	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	
50) Toluene-d8	8.72	98	517949	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
62) 4-Bromofluorobenzene	11.14	95	187830	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	919	0.250	ug/l	92
5) Bromomethane	1.64	94	633	0.309	ug/l #	76
6) Chloroethane	1.74	64	23	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	11192	12.598	ug/l #	76
13) Acrolein	2.31	56	245	0.388	ug/l #	11
14) Allyl chloride	2.62	41	7725	1.469	ug/l #	58
16) Acetone	2.45	43	9161	4.939	ug/l	91
17) Carbon Disulfide	2.57	76	1543	0.213	ug/l #	95
18) Methyl Acetate	2.78	43	2513	0.535	ug/l	96
20) Methylene Chloride	2.86	84	1376	Below Cal	#	93
24) 1,1-Dichloroethane	3.70	63	1075	0.204	ug/l #	84
25) 2-Butanone	4.70	43	578	0.211	ug/l	91
32) 1,1,1-Trichloroethane	5.49	97	3370	0.827	ug/l #	49
36) 1,1-Dichloropropene	5.67	75	14649	3.505	ug/l #	46
38) Carbon Tetrachloride	5.67	117	19733	4.491	ug/l #	16
56) Ethyl methacrylate	9.15	69	19	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.34	63	22	14.250	ug/l #	49
70) Styrene	10.71	104	56	2.146	ug/l #	1
74) N-amyl acetate	10.91	43	260	1.785	ug/l #	83
76) 1,2,3-Trichloropropane	11.14	75	92851	21.093	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	416	Below Cal		98
81) trans-1,4-Dichloro-2-buten	11.14	75	92851	57.230	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	1114	Below Cal		92
95) Naphthalene	13.84	128	1989	0.839	ug/l	97

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

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QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

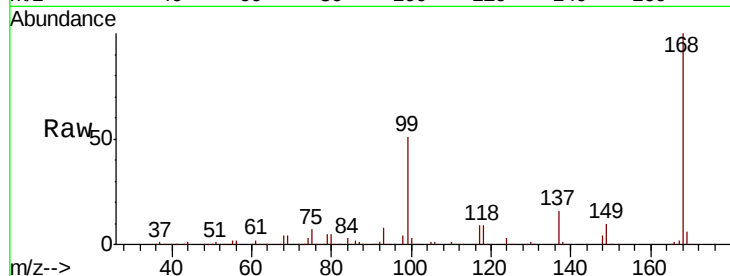
ClientSampled :

Tot Ion:168 Resp: 222415

Ion Ratio Lower Upper

168 100

99 50.7 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

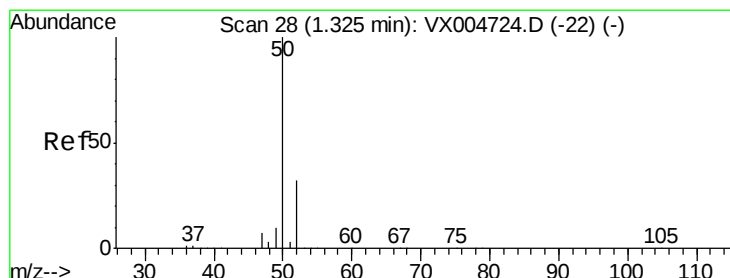
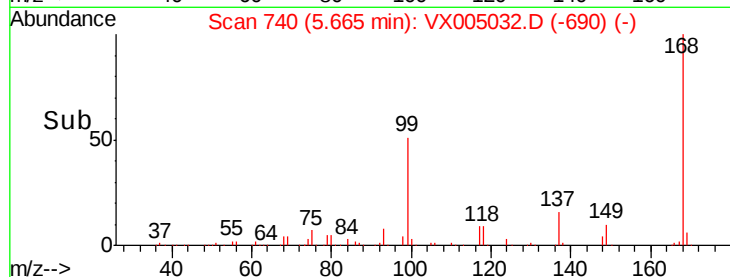
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.250 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005032.D

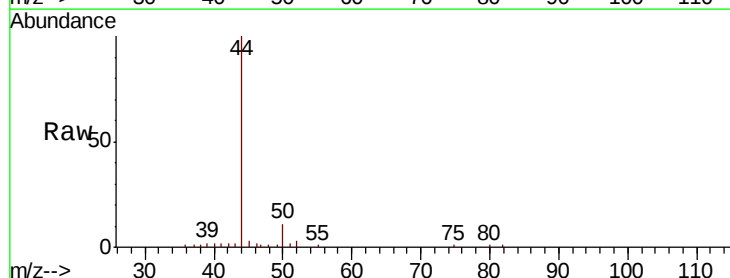
Acq: 04 Oct 2018 21:22

Tgt Ion: 50 Resp: 919

Ion Ratio Lower Upper

50 100

52 27.7 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

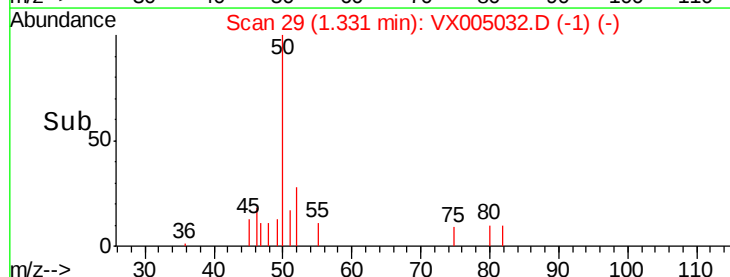
400

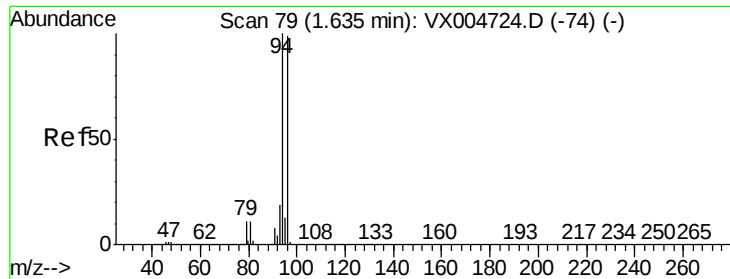
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.309 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

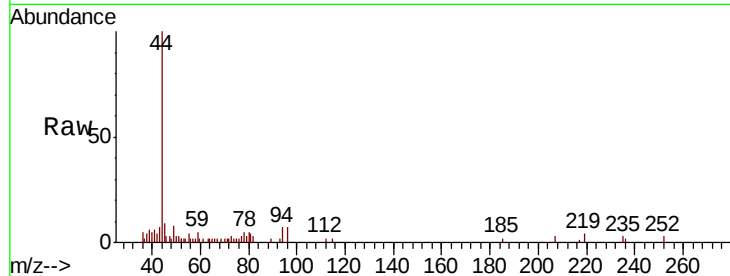
ClientSampleId :

Tot Ion: 94 Resp: 633

Ion Ratio Lower Upper

94 100

96 75.0 79.5 119.3#

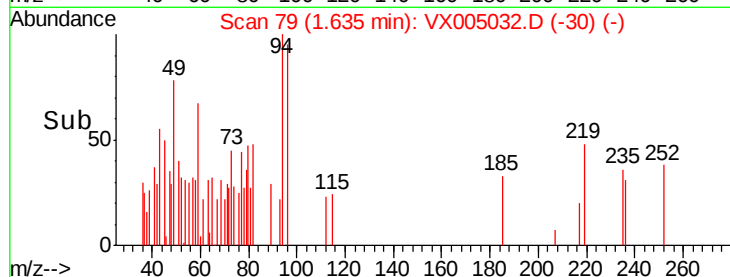


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->

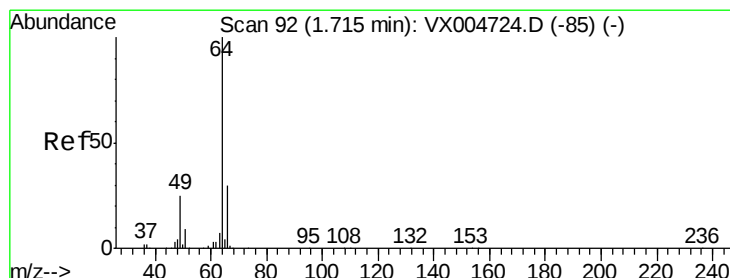


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX005032.D

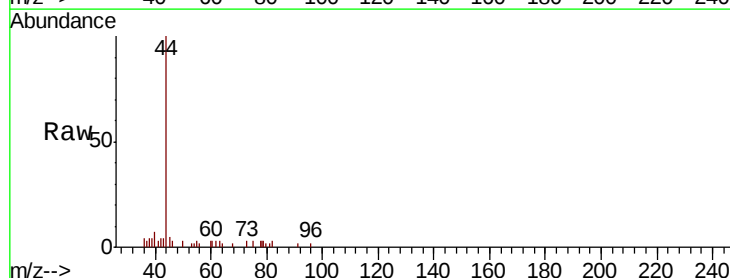
Acq: 04 Oct 2018 21:22

Tgt Ion: 64 Resp: 23

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#

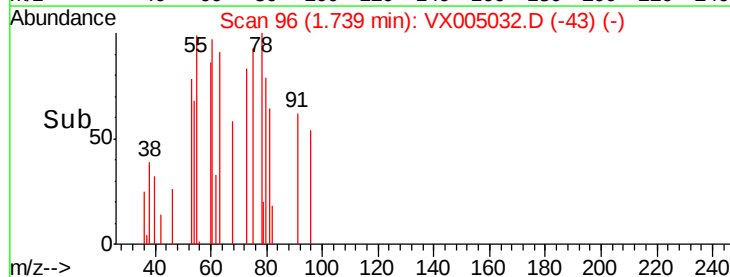


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

Time-->

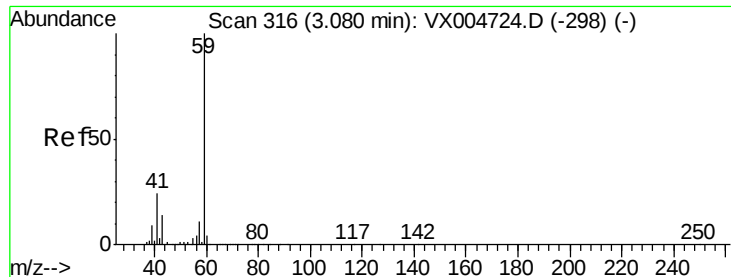


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

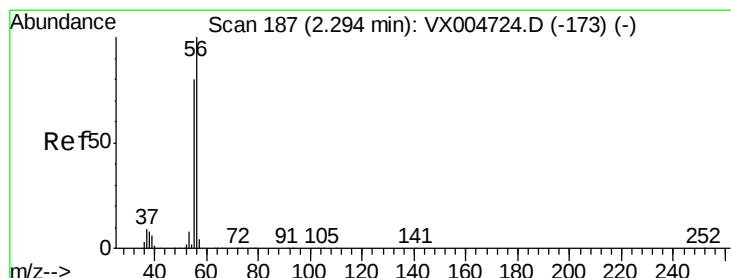
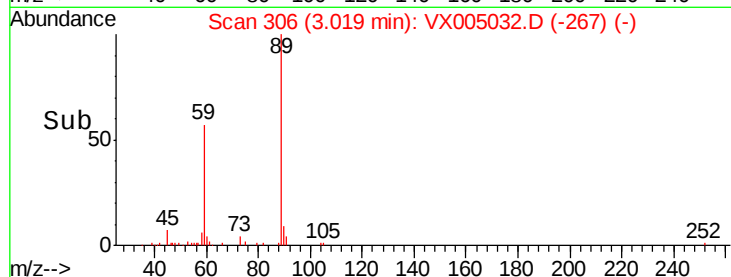
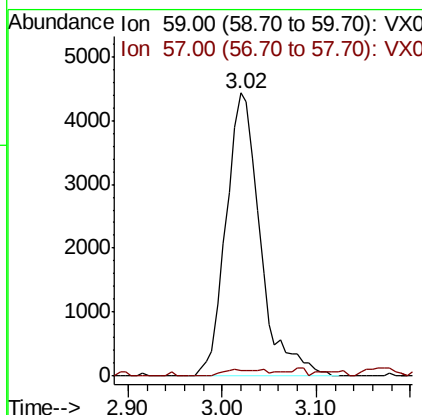
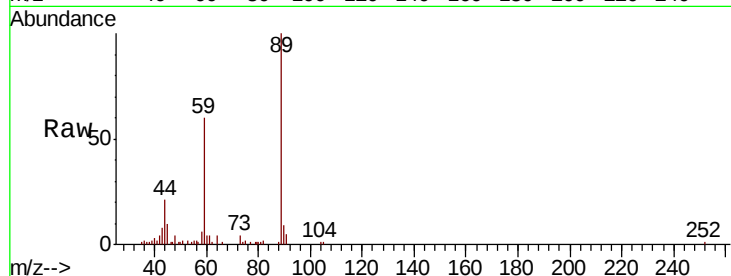
Time-->



#11
Tert butyl alcohol
Concen: 12.598 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

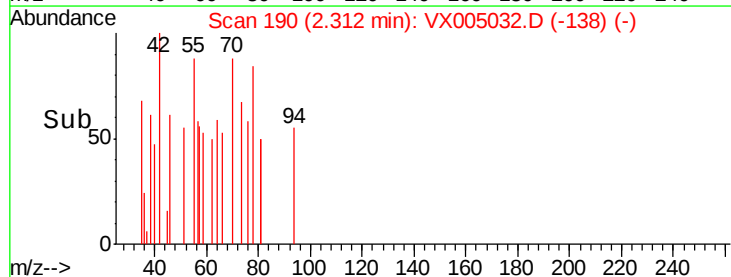
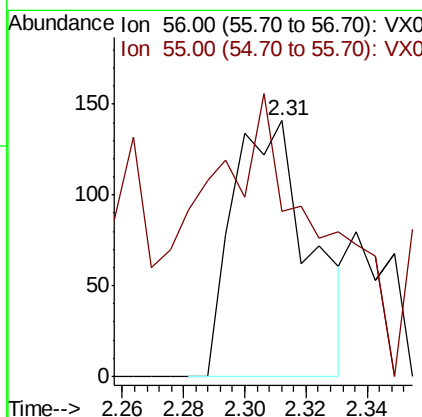
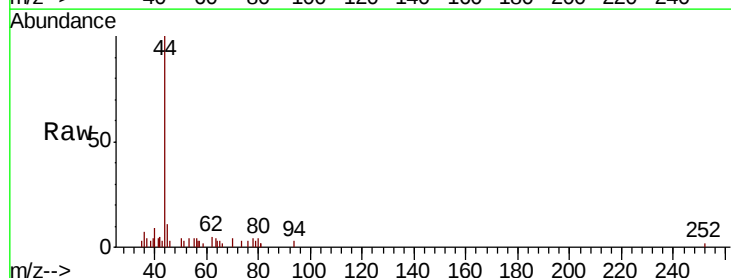
Instrument :
MSVOA_X
ClientSampleId :

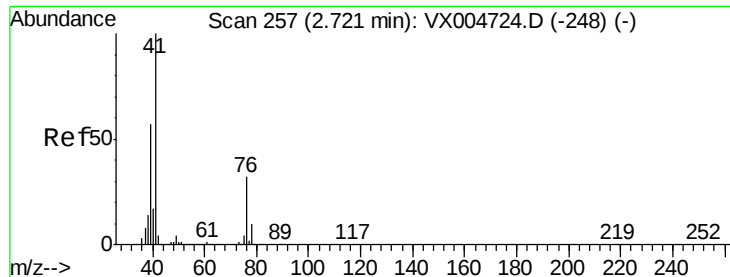
Tot Ion: 59 Resp: 11192
Ion Ratio Lower Upper
59 100
57 1.8 8.6 12.8#



#13
Acrolein
Concen: 0.388 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

Tgt Ion: 56 Resp: 245
Ion Ratio Lower Upper
56 100
55 157.6 63.4 95.2#





#14

Allvl chloride

Concen: 1.469 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

ClientSampled :

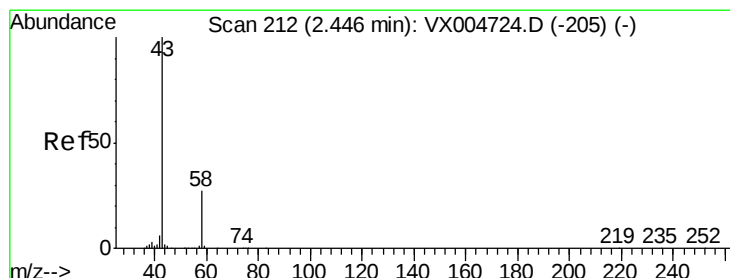
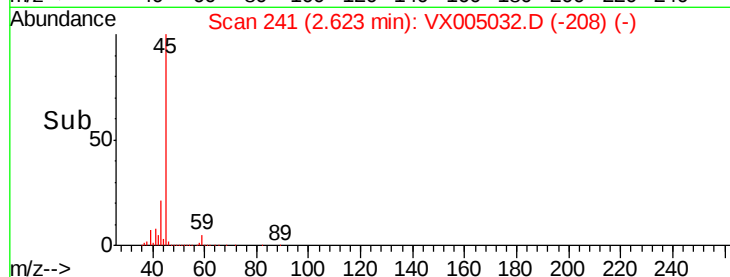
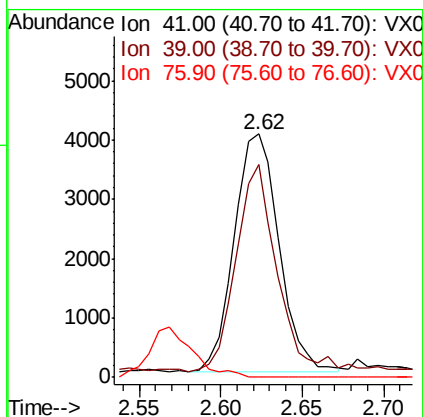
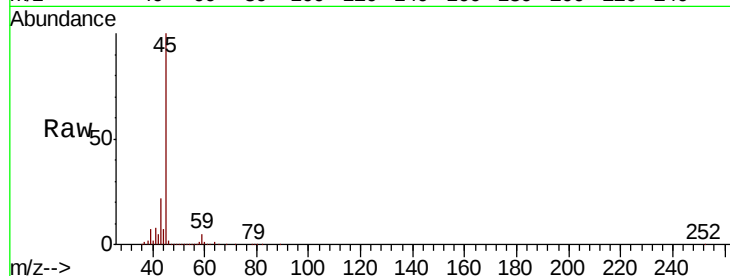
Tot Ion: 41 Resp: 7725

Ion Ratio Lower Upper

41 100

39 80.1 44.1 66.1#

76 0.0 25.0 37.4#



#16

Acetone

Concen: 4.939 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005032.D

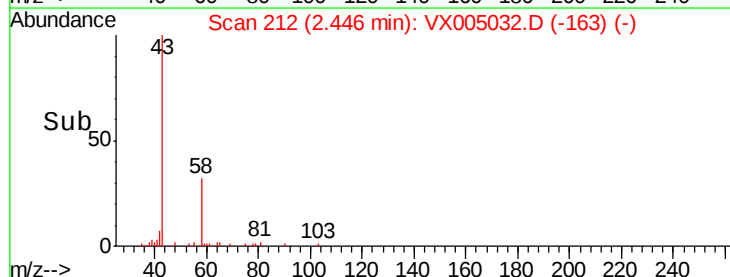
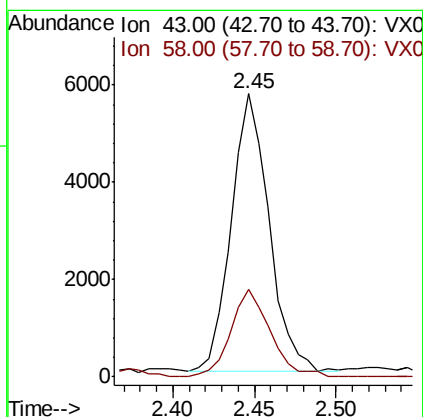
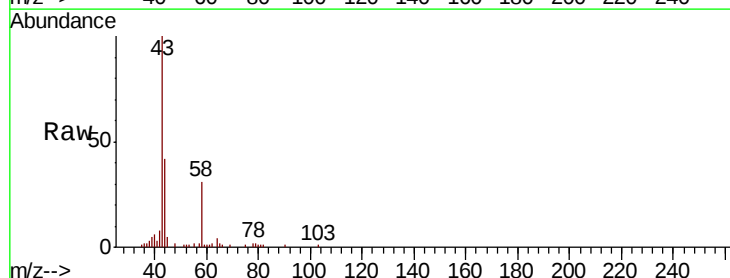
Acq: 04 Oct 2018 21:22

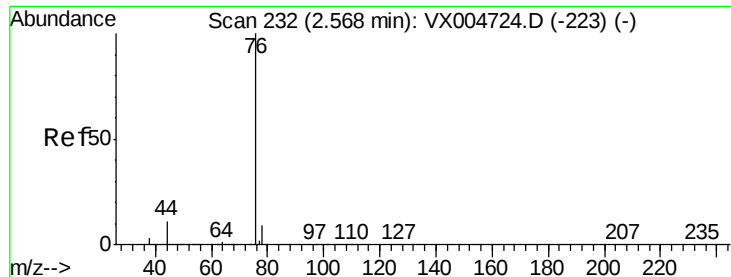
Tgt Ion: 43 Resp: 9161

Ion Ratio Lower Upper

43 100

58 31.7 21.8 32.6





#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

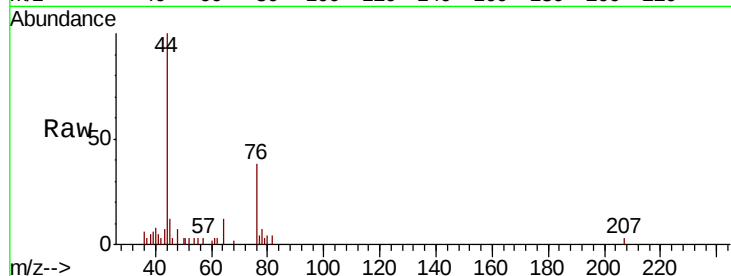
ClientSampled :

Tot Ion: 76 Resp: 1543

Ion Ratio Lower Upper

76 100

78 10.6 7.0 10.6#

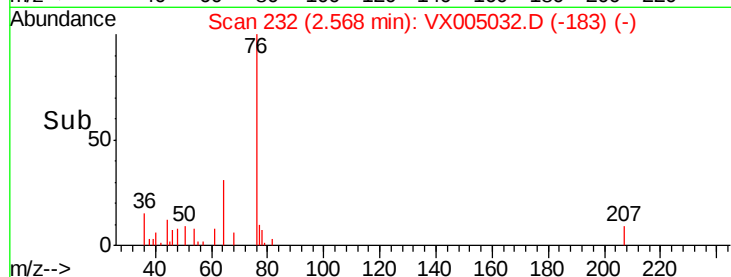


Abundance Ion 75.90 (75.60 to 76.60): VX0

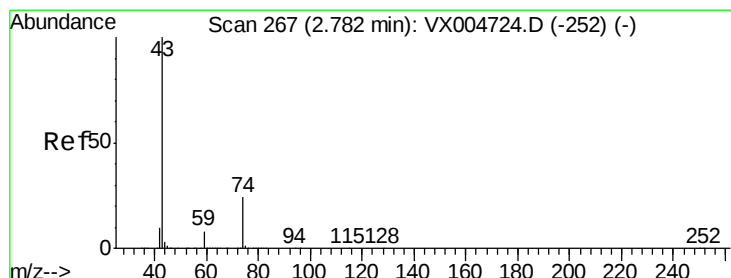
Ion 77.90 (77.60 to 78.60): VX0

2.57

Time-->



Time-->



#18

Methyl Acetate

Concen: 0.535 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005032.D

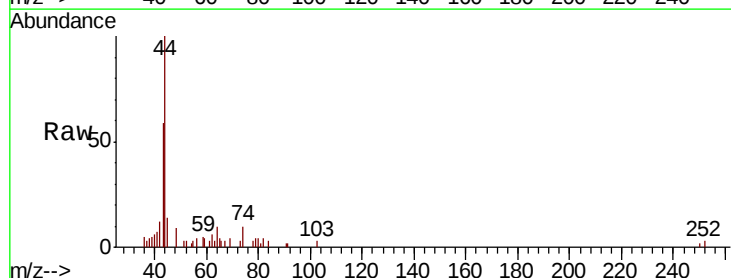
Acq: 04 Oct 2018 21:22

Tgt Ion: 43 Resp: 2513

Ion Ratio Lower Upper

43 100

74 24.4 17.8 26.8

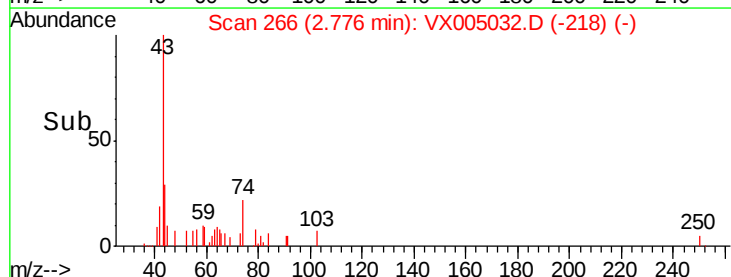


Abundance Ion 43.00 (42.70 to 43.70): VX0

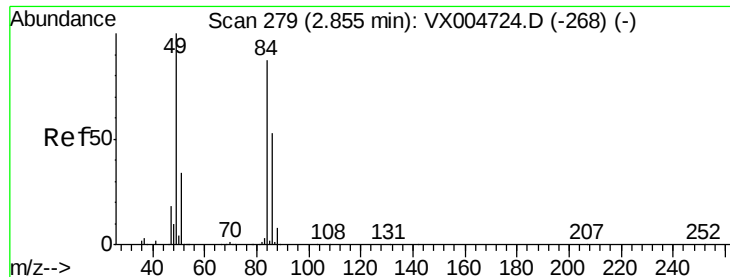
Ion 74.00 (73.70 to 74.70): VX0

2.78

Time-->



Time-->



#20

Methvlene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

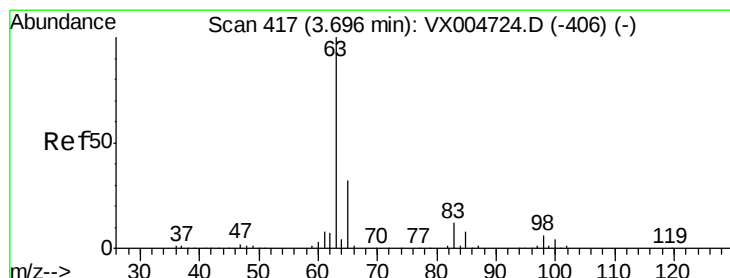
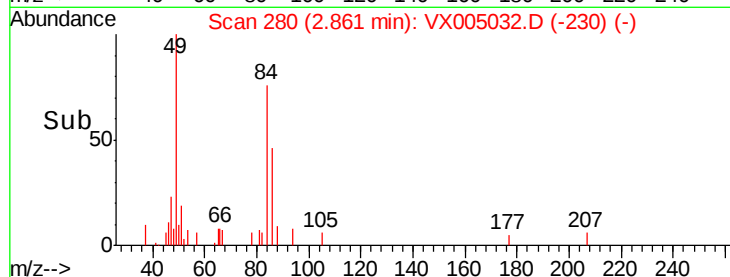
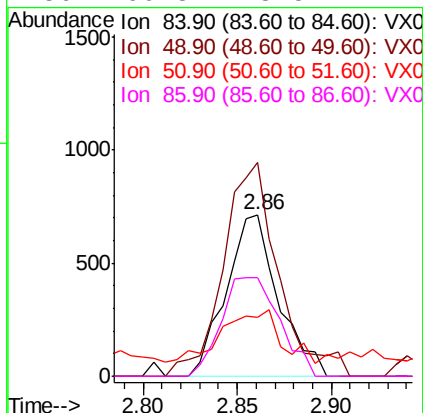
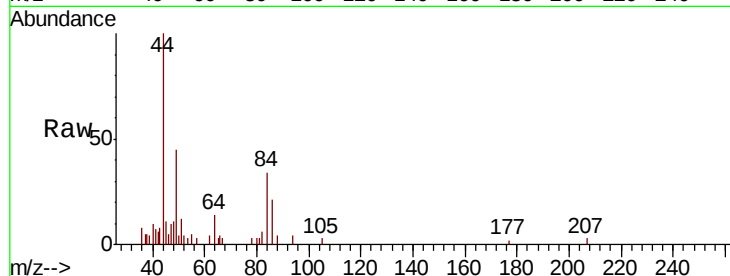
Delta R.T. 0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	1376
Ion	Ratio	Lower	Upper
84	100		
49	121.5	92.3	138.5
51	25.2	31.8	47.6#
86	60.8	48.5	72.7



#24

1,1-Dichloroethane

Concen: 0.204 ug/l

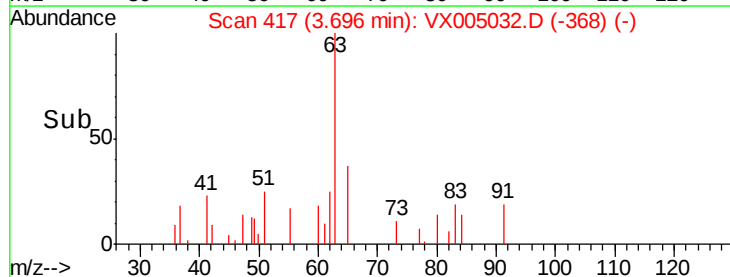
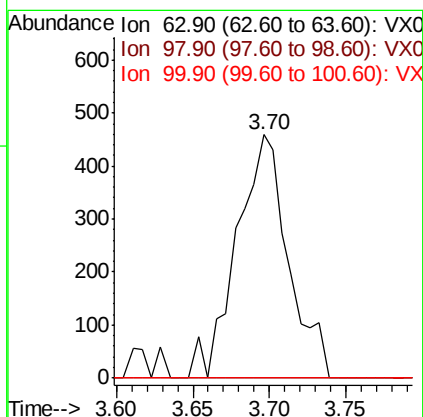
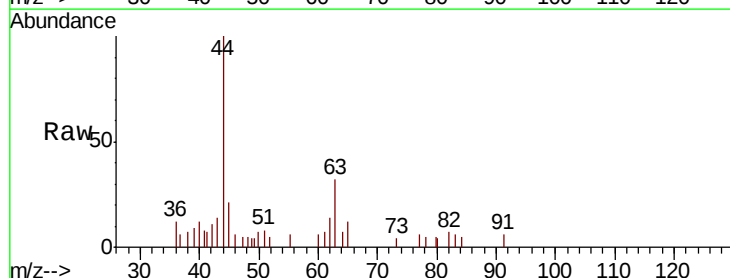
RT: 3.70 min Scan# 417

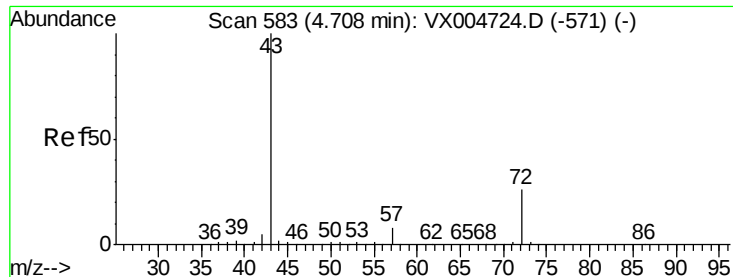
Delta R.T. 0.00 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Tgt Ion:	63	Resp:	1075
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.0	9.2#
100	0.0	2.0	5.8#





#25

2-Butanone

Concen: 0.211 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

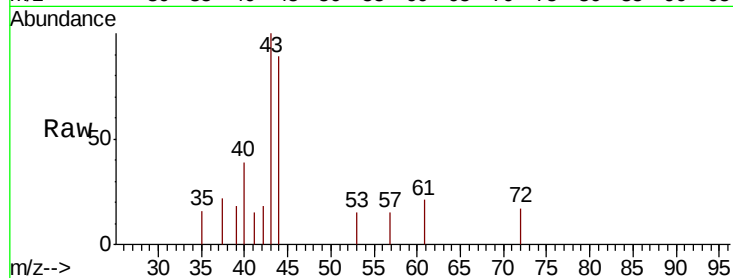
ClientSampled :

Tot Ion: 43 Resp: 578

Ion Ratio Lower Upper

43 100

72 21.5 20.8 31.2

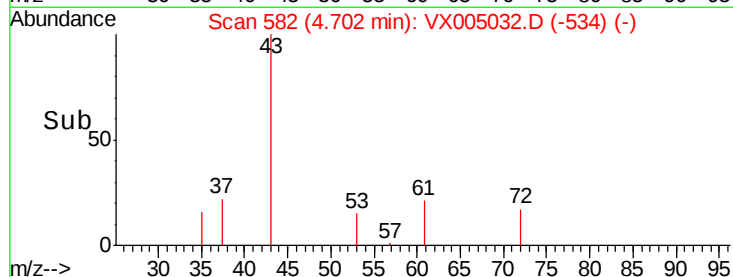


Abundance Ion 43.00 (42.70 to 43.70): VX0

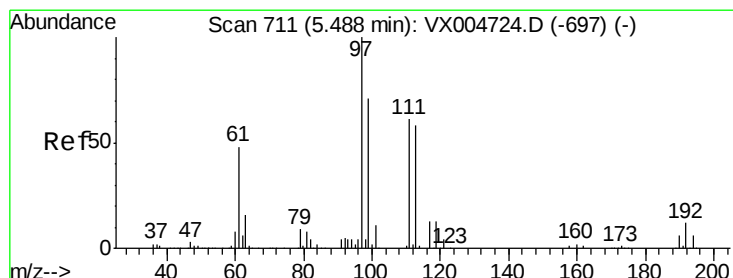
Ion 72.00 (71.70 to 72.70): VX0

4.70

4.75



Time-->



#32

1,1,1-Trichloroethane

Concen: 0.827 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

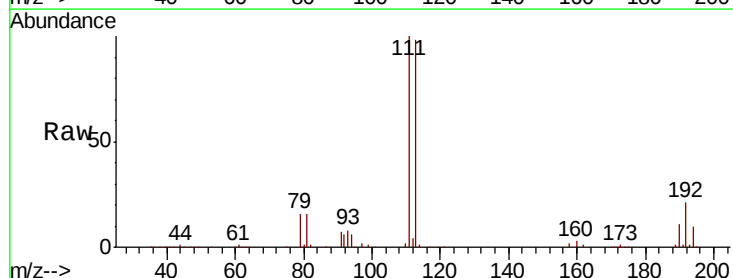
Tgt Ion: 97 Resp: 3370

Ion Ratio Lower Upper

97 100

99 0.0 54.6 82.0#

61 49.1 37.5 56.3



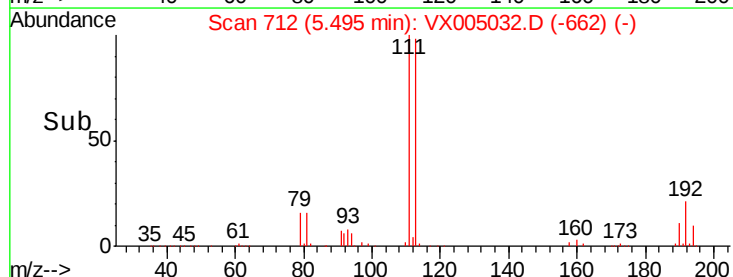
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

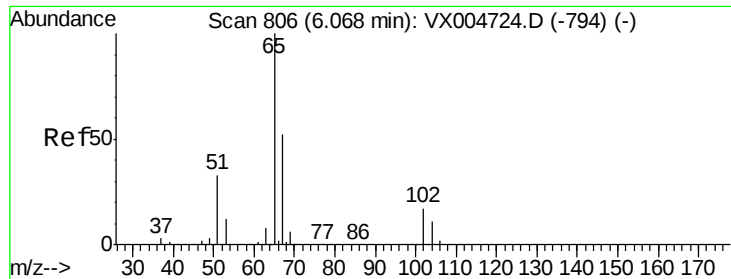
Ion 60.90 (60.60 to 61.60): VX0

5.49

5.55



Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.107 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

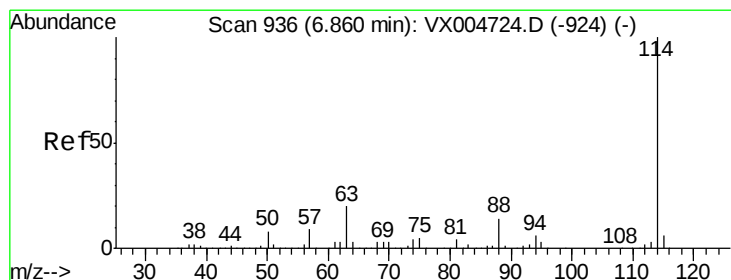
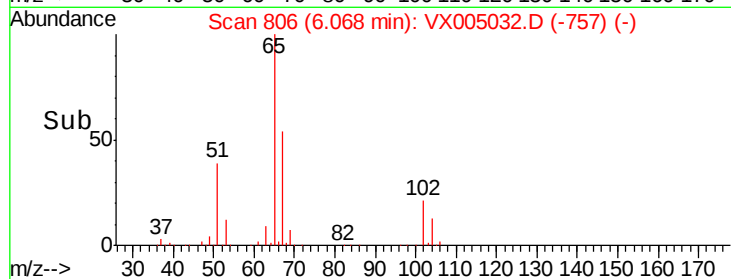
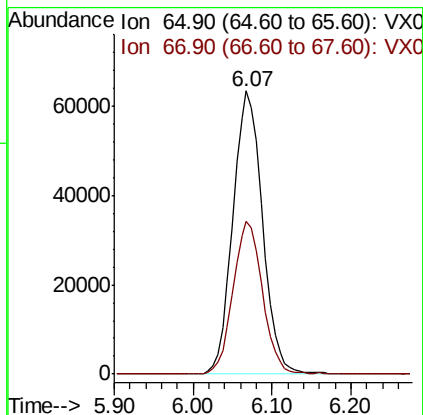
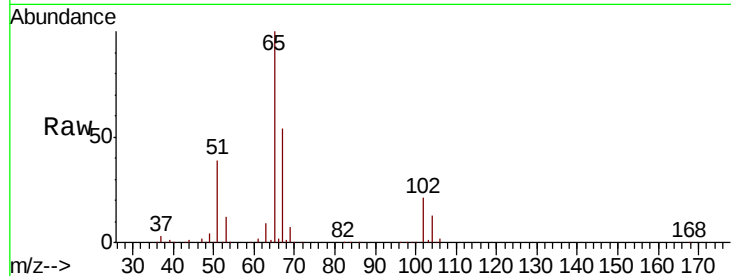
ClientSampleId :

Tot Ion: 65 Resp: 165555

Ion Ratio Lower Upper

65 100

67 53.8 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: VX005032.D

Acq: 04 Oct 2018 21:22

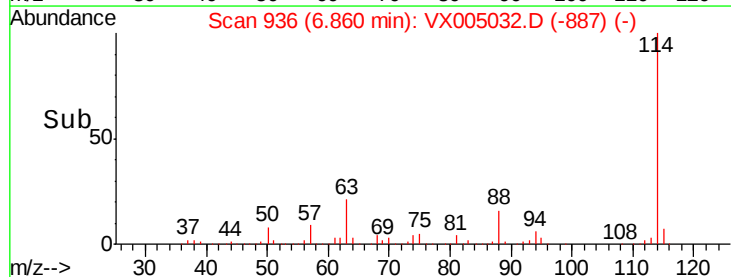
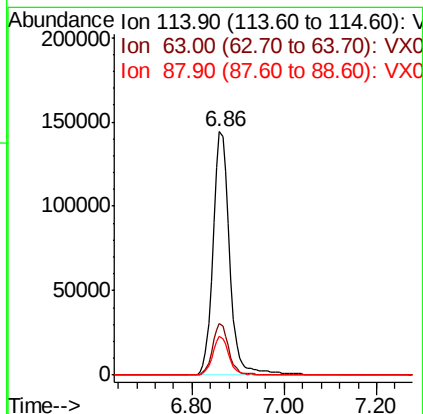
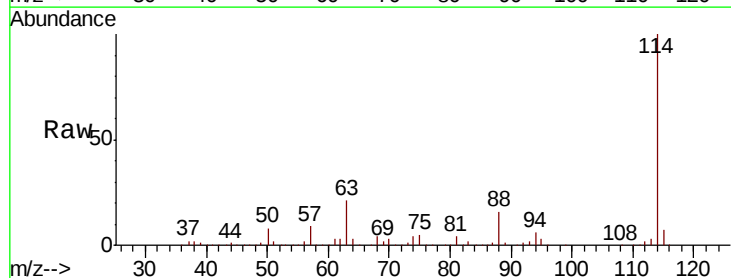
Tgt Ion: 114 Resp: 361463

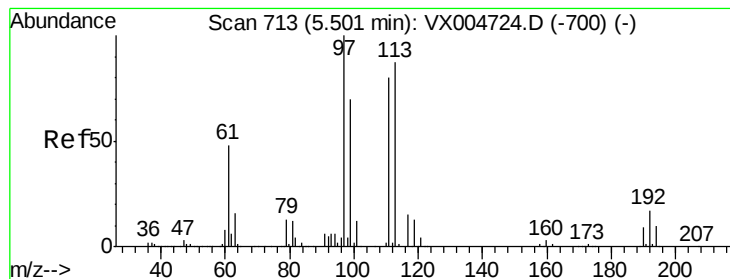
Ion Ratio Lower Upper

114 100

63 21.4 0.0 39.8

88 15.8 0.0 27.0





#35

Dibromofluoromethane

Concen: 46.355 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

ClientSampleId :

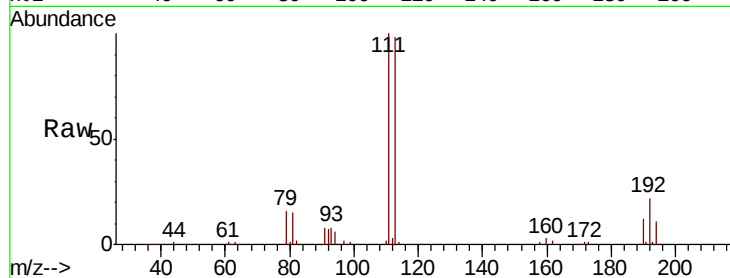
Tot Ion:113 Resp: 142005

Ion Ratio Lower Upper

113 100

111 102.0 77.0 115.4

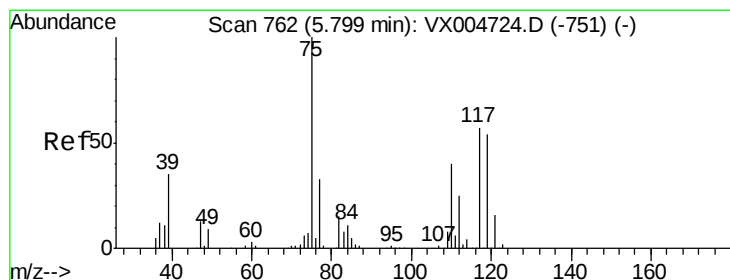
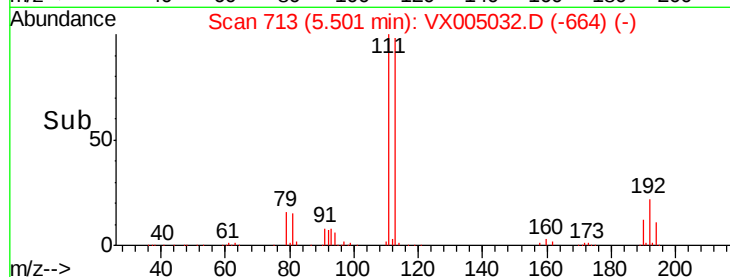
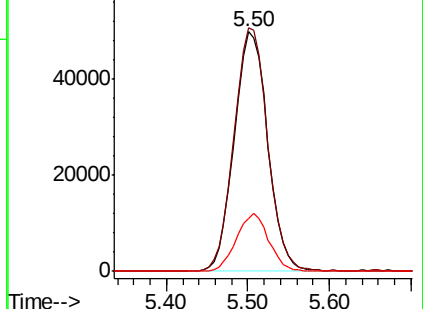
192 23.3 17.0 25.6



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: 3.505 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

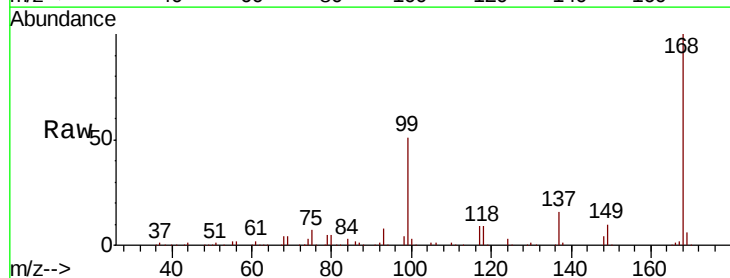
Tgt Ion: 75 Resp: 14649

Ion Ratio Lower Upper

75 100

110 9.5 20.0 59.9#

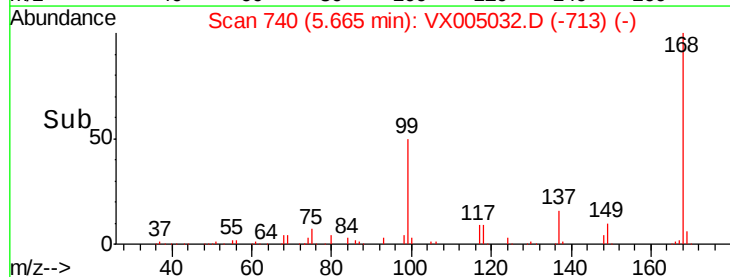
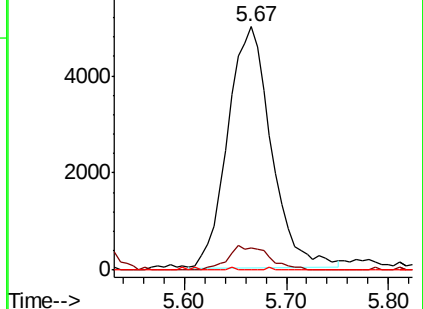
77 0.2 27.1 40.7#

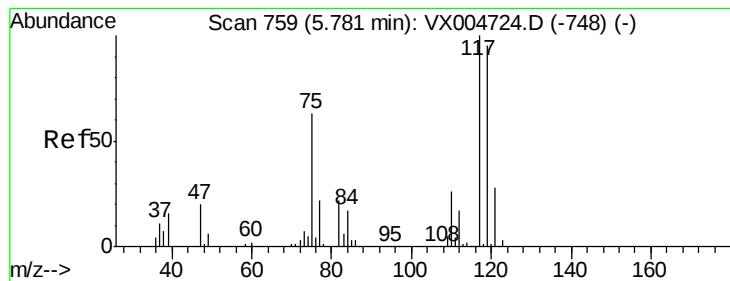


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.491 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

ClientSampleId :

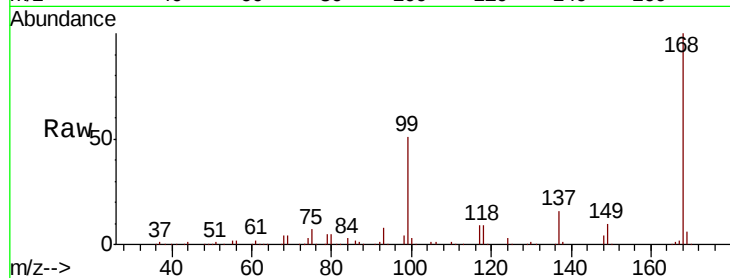
Tot Ion:117 Resp: 19733

Ion Ratio Lower Upper

117 100

119 4.4 75.2 112.8#

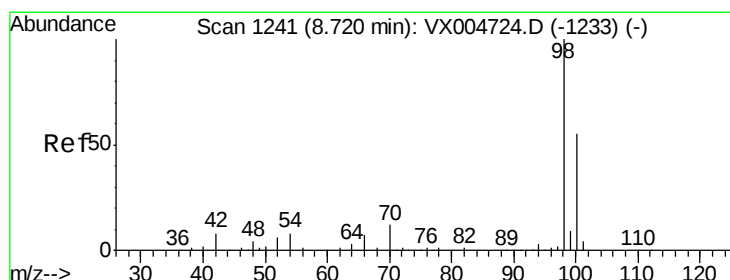
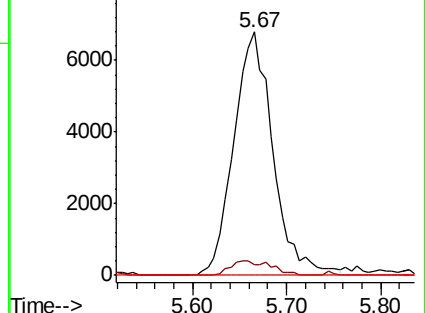
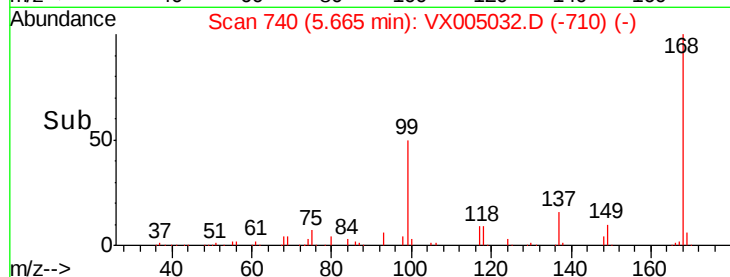
121 0.0 22.5 33.7#



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: 50.857 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005032.D

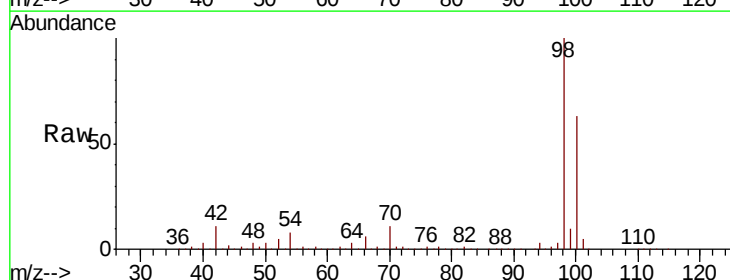
Acq: 04 Oct 2018 21:22

Tgt Ion: 98 Resp: 517949

Ion Ratio Lower Upper

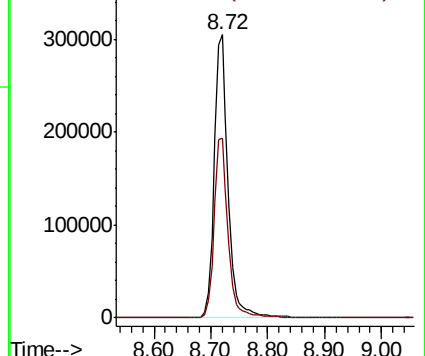
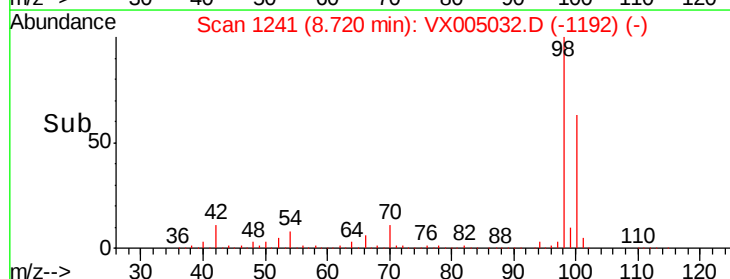
98 100

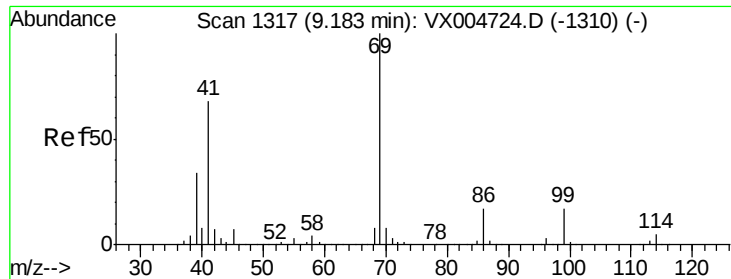
100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.15 min Scan# 1311

Delta R.T. -0.04 min

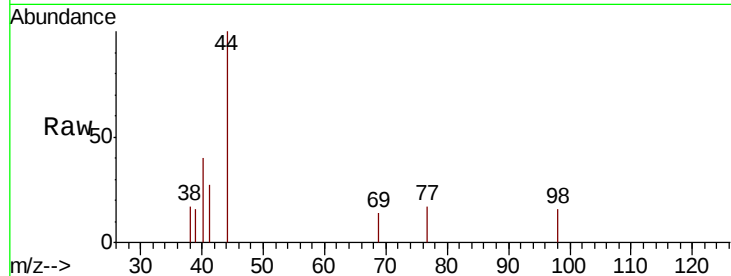
Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 69 Resp: 19

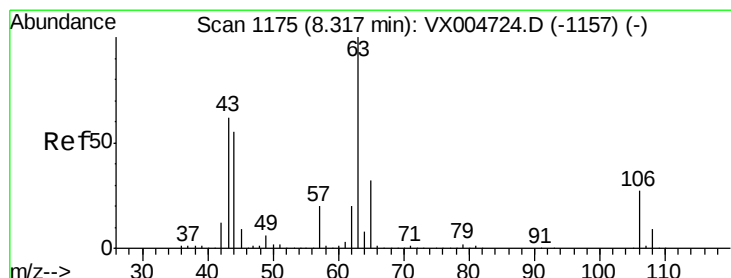
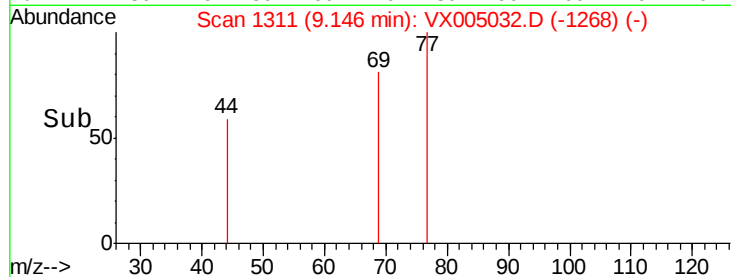
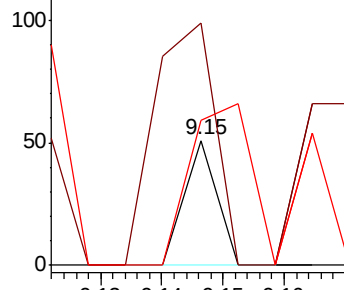
Ion	Ratio	Lower	Upper
69	100		
41	352.6	56.9	85.3#
39	342.1	28.4	42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.250 ug/l

RT: 8.34 min Scan# 1178

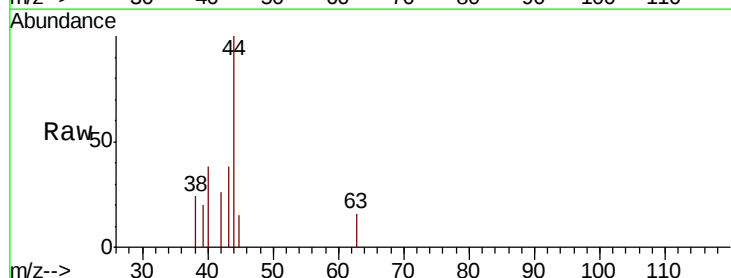
Delta R.T. 0.02 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

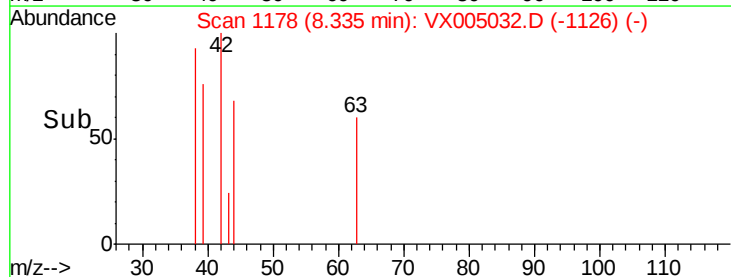
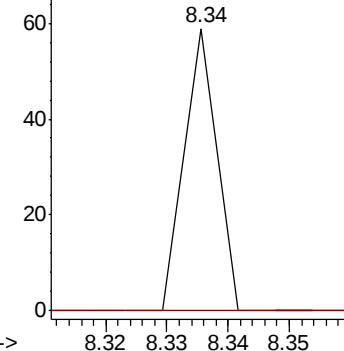
Tgt Ion: 63 Resp: 22

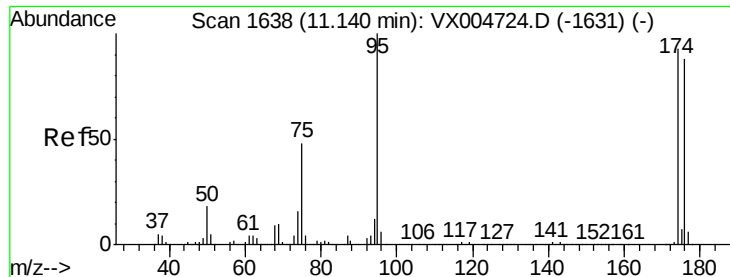
Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.0	31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

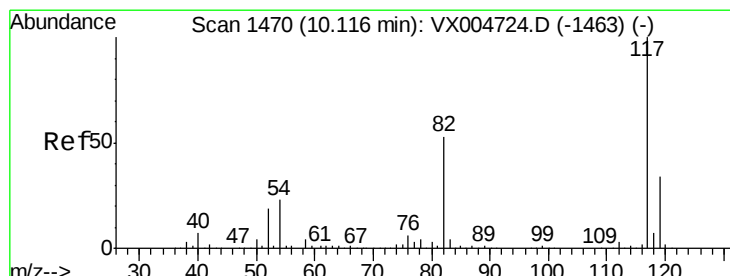
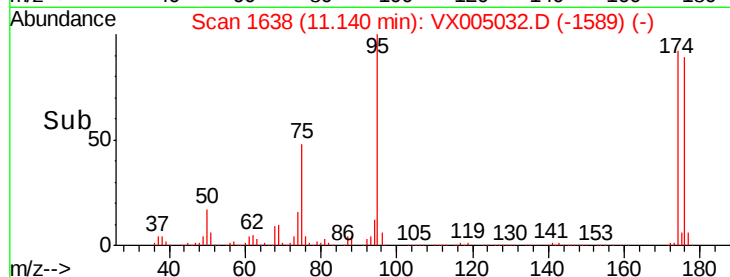
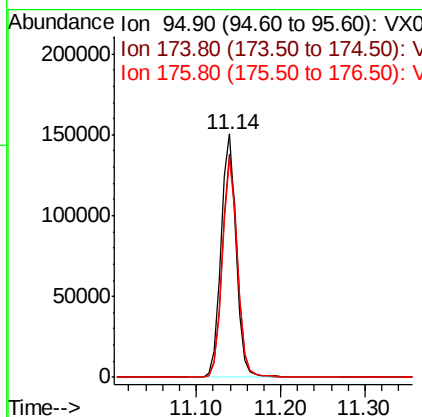
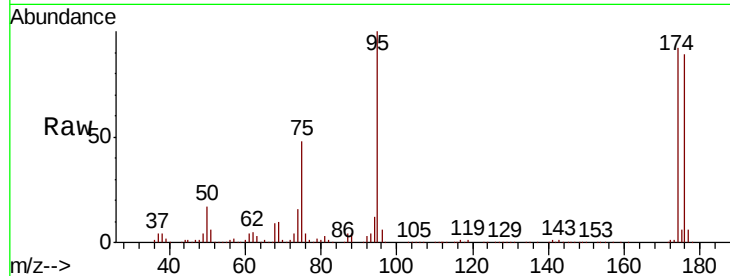




#62
4-Bromofluorobenzene
Concen: 51.194 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

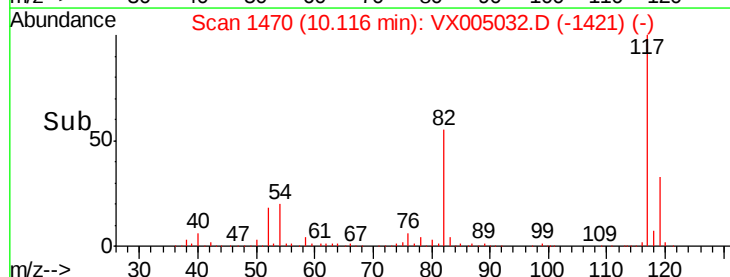
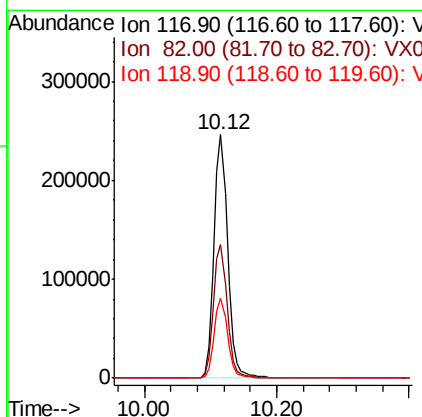
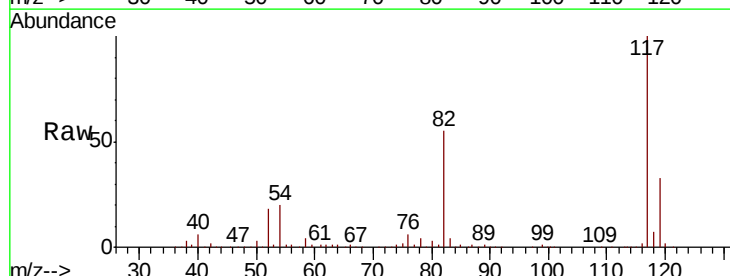
Instrument :
MSVOA_X
ClientSampleId :

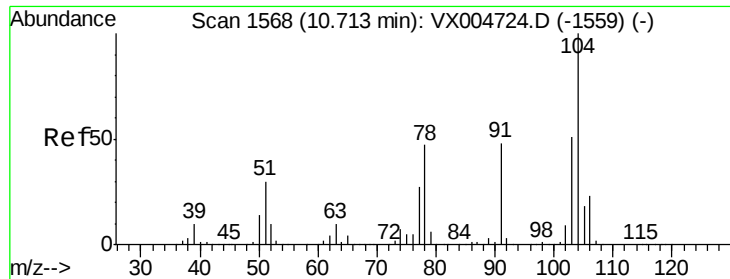
Tot Ion: 95 Resp: 187830
Ion Ratio Lower Upper
95 100
174 92.3 0.0 185.0
176 89.5 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

Tgt Ion: 117 Resp: 349956
Ion Ratio Lower Upper
117 100
82 55.1 42.2 63.4
119 32.7 27.4 41.0

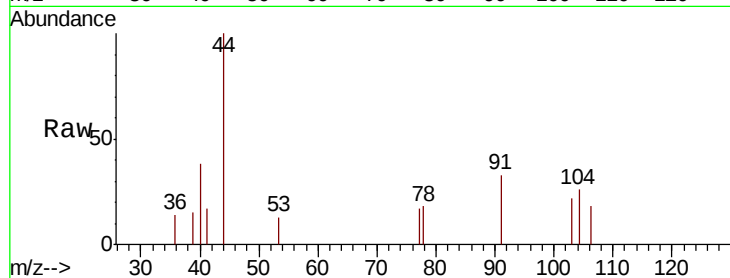




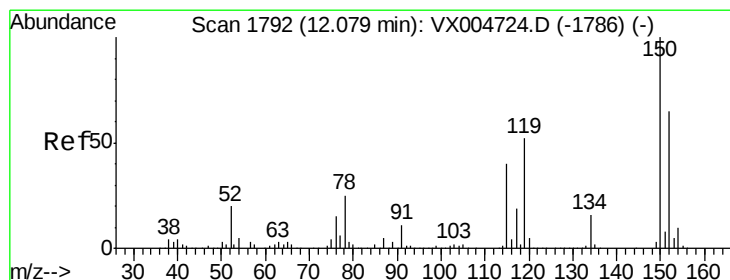
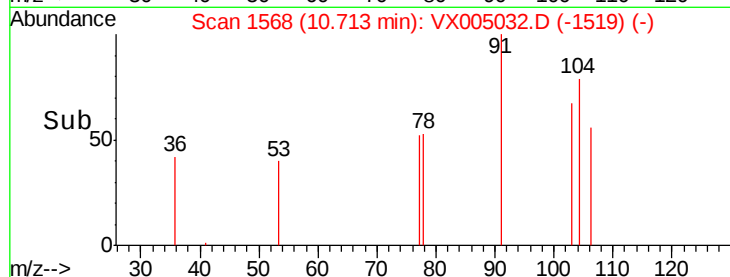
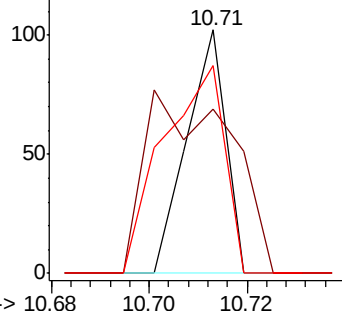
#70
Stvrene
Concen: 2.146 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:104 Resp: 56
Ion Ratio Lower Upper
104 100
78 166.1 40.0 60.0#
103 133.9 44.3 66.5#

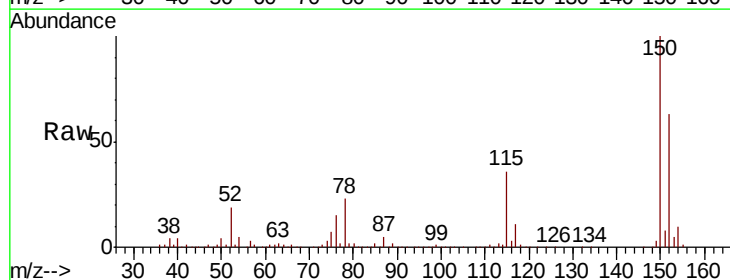


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

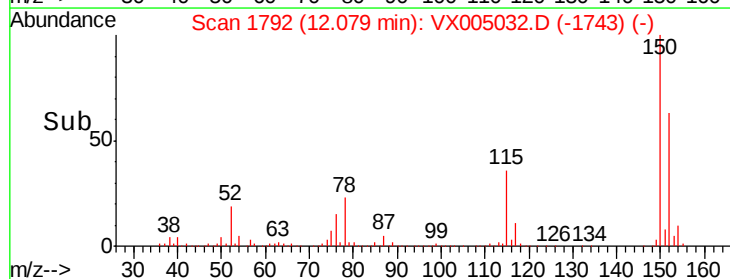
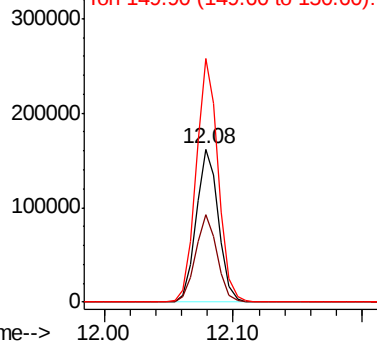


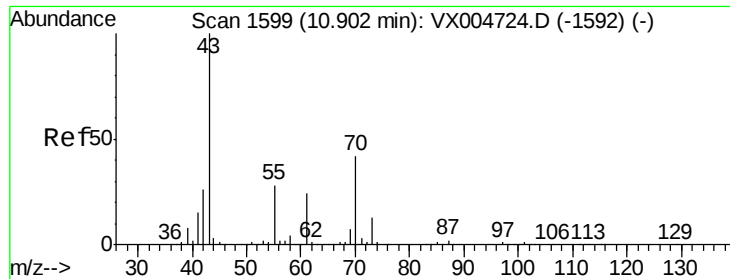
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005032.D
Acq: 04 Oct 2018 21:22

Tgt Ion:152 Resp: 196395
Ion Ratio Lower Upper
152 100
115 55.6 40.2 120.6
150 157.8 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-amvl acetate

Concen: 1.785 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 260

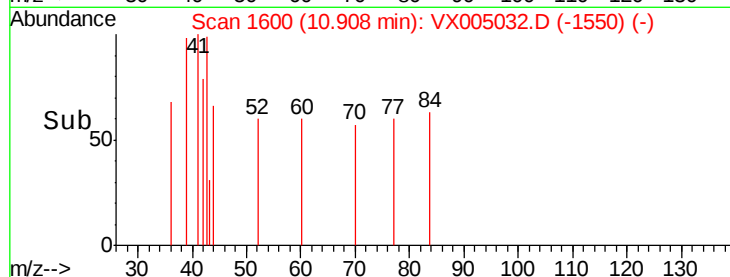
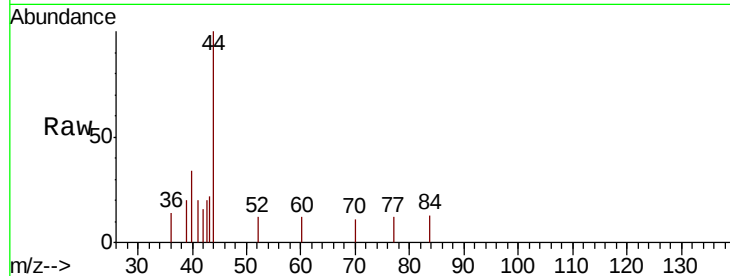
Ion Ratio Lower Upper

43 100

70 45.8 32.6 48.8

55 25.8 21.6 32.4

61 0.0 19.1 28.7#

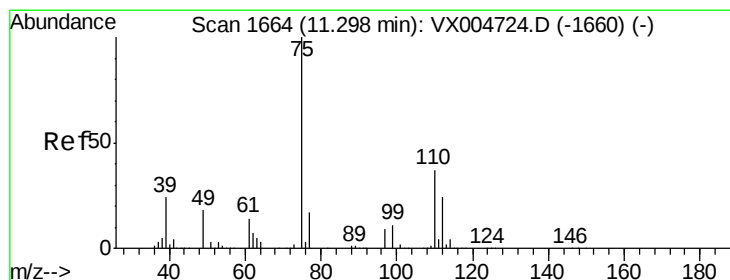
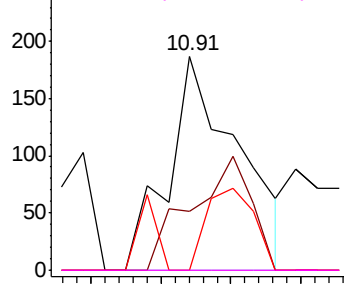


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.093 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005032.D

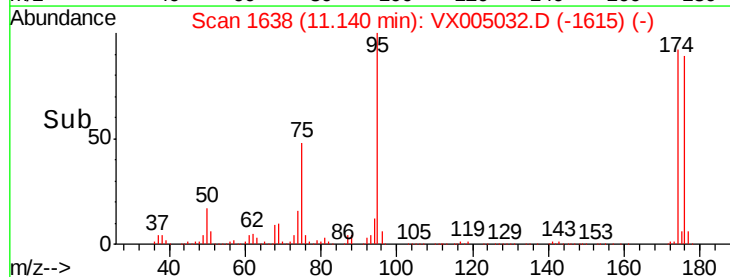
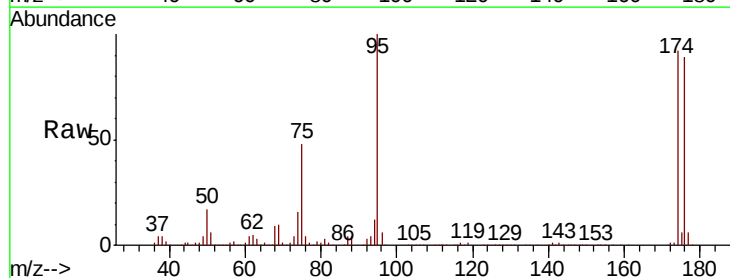
Acq: 04 Oct 2018 21:22

Tgt Ion: 75 Resp: 92851

Ion Ratio Lower Upper

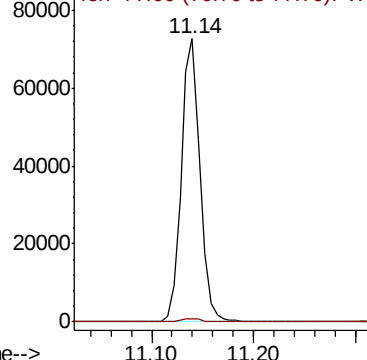
75 100

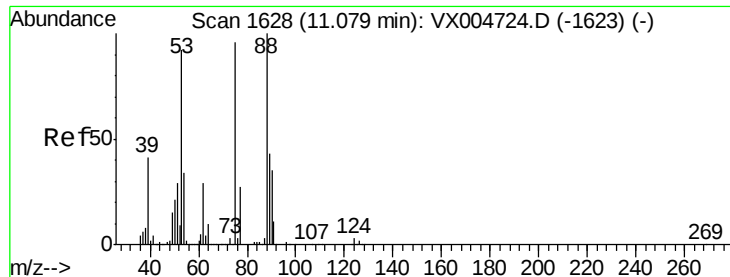
77 1.3 21.4 64.3#



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: 57.230 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Instrument :

MSVOA_X

ClientSampled :

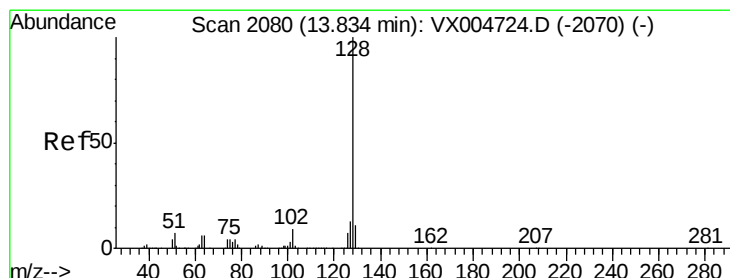
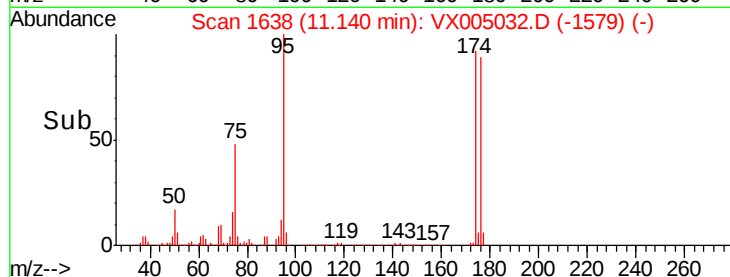
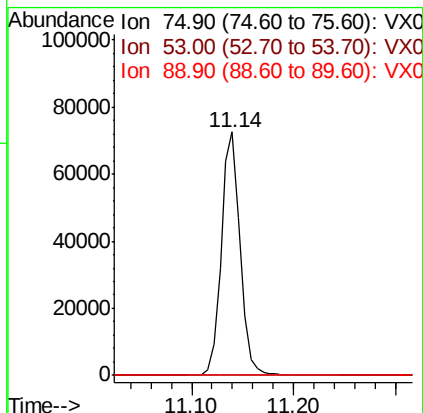
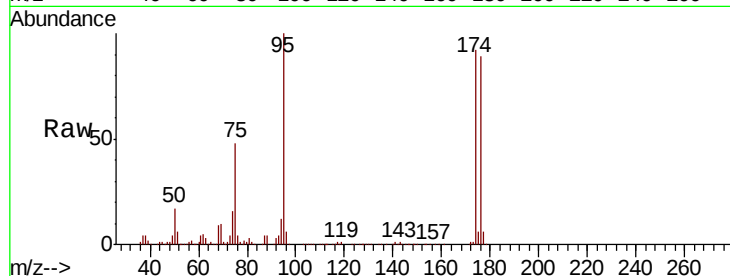
Tot Ion: 75 Resp: 92851

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

89 0.0 37.1 55.7#



#95

Naphthalene

Concen: 0.839 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005032.D

Acq: 04 Oct 2018 21:22

Tgt Ion: 128 Resp: 1989

Ion Ratio Lower Upper

128 100

127 15.1 10.4 15.6

129 10.5 8.7 13.1

