

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\
 Data File : VX005758.D
 Acq On : 02 Nov 2018 16:02
 Operator : JC/MD
 Sample : PB114401ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#09

Quant Time: Nov 03 01:28:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	110428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	181473	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	169674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	71136	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	85879	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
35) Dibromofluoromethane	5.51	113	64606	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	8.72	98	232653	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
62) 4-Bromofluorobenzene	11.14	95	71132	43.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.46%	

Target Compounds

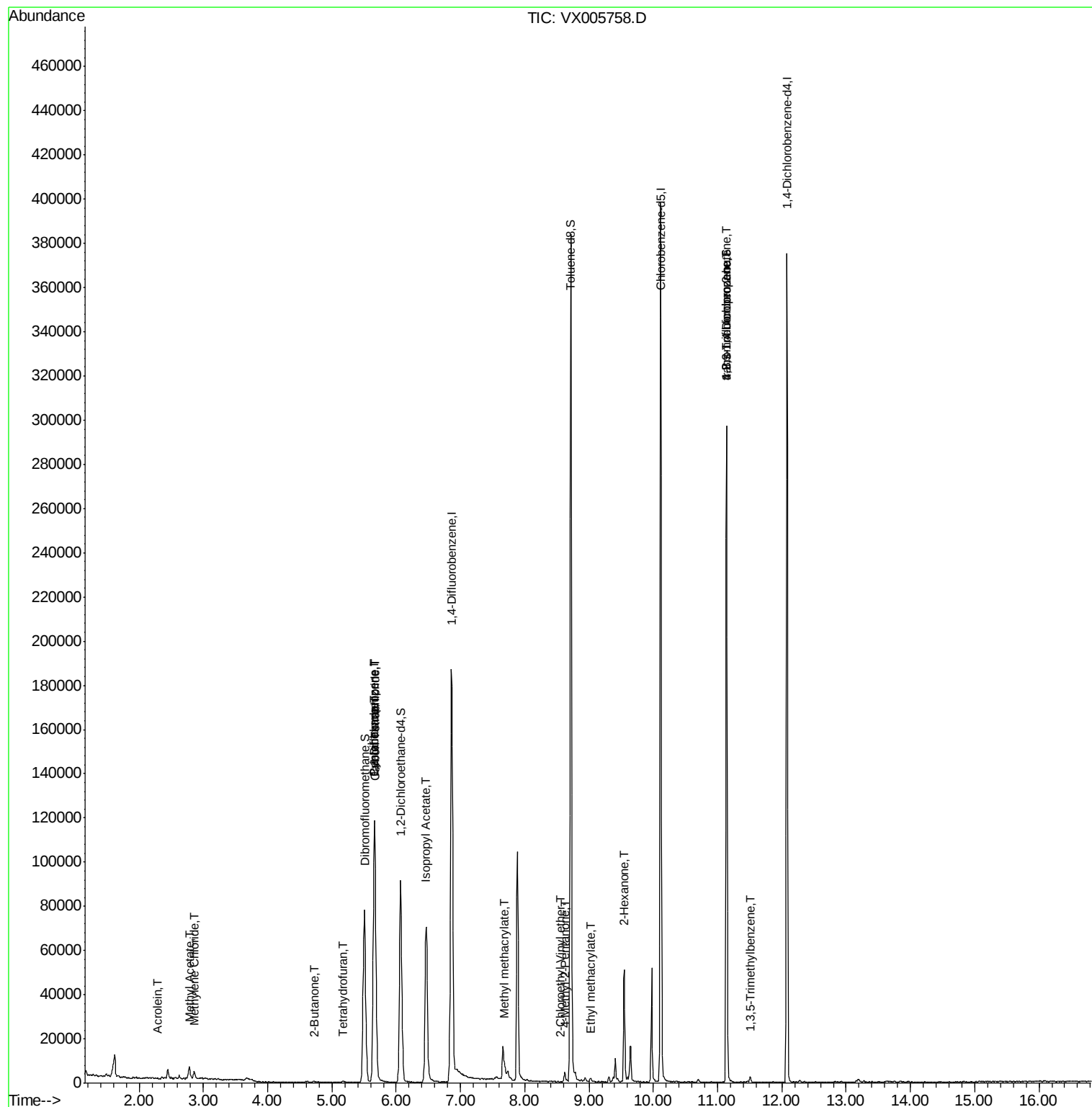
						Qvalue
6) Chloroethane	1.73	64	53	Below Cal	#	42
13) Acrolein	2.28	56	22	12.250	ug/l #	14
16) Acetone	2.45	43	4364	Below Cal		96
18) Methyl Acetate	2.78	43	7386	3.188	ug/l	98
20) Methylene Chloride	2.85	84	1342	0.964	ug/l	91
25) 2-Butanone	4.72	43	852	0.626	ug/l	99
29) Tetrahydrofuran	5.17	42	684	0.823	ug/l #	67
31) Cyclohexane	5.65	56	2680	1.242	ug/l #	3
36) 1,1-Dichloropropene	5.66	75	10203	5.277	ug/l #	48
38) Carbon Tetrachloride	5.67	117	11046	6.324	ug/l #	15
43) Isopropyl Acetate	6.46	43	95925	26.793	ug/l	98
48) Methyl methacrylate	7.69	41	4116	2.375	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	1623	0.665	ug/l #	45
56) Ethyl methacrylate	9.03	69	45	2.489	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.55	63	21	10.353	ug/l #	48
59) 2-Hexanone	9.55	43	5850	2.945	ug/l #	57
76) 1,2,3-Trichloropropane	11.14	75	38543	21.754	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	1062	0.267	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	38543	70.287	ug/l #	9

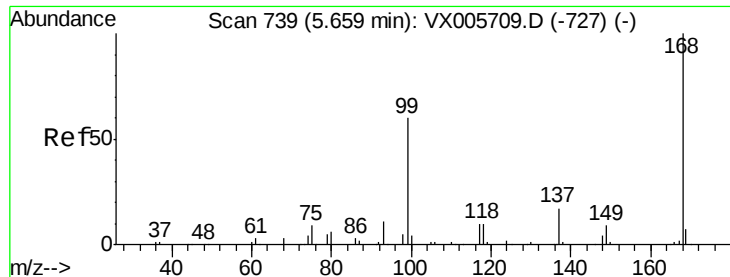
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 18:23:06 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

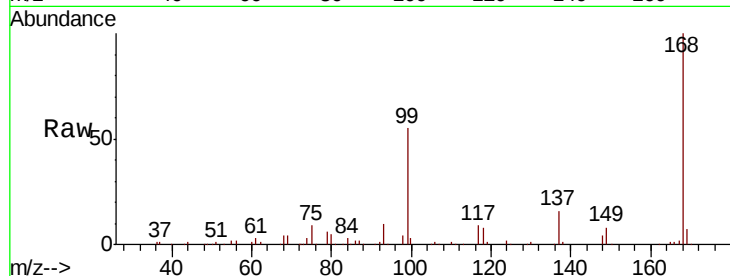
PB114401ZHE#09

Tot Ion:168 Resp: 110428

Ion Ratio Lower Upper

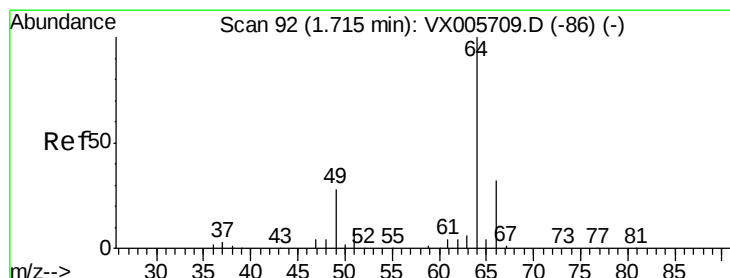
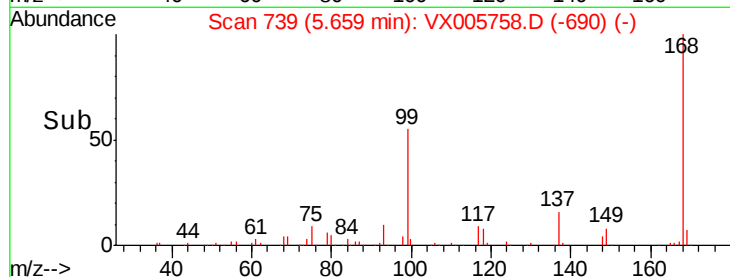
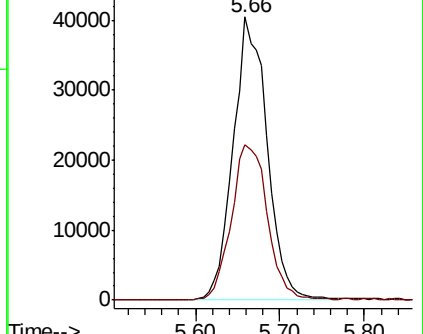
168 100

99 54.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005758.D

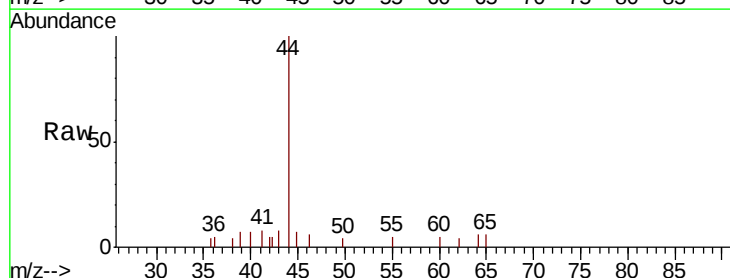
Acq: 02 Nov 2018 16:02

Tgt Ion: 64 Resp: 53

Ion Ratio Lower Upper

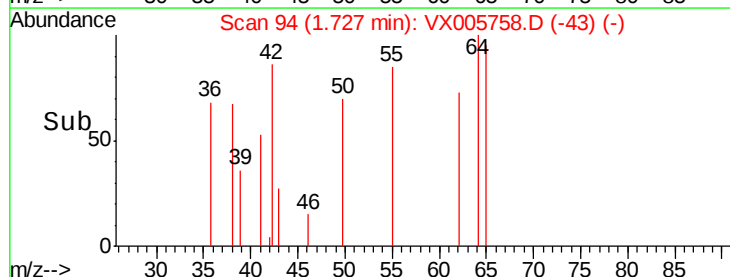
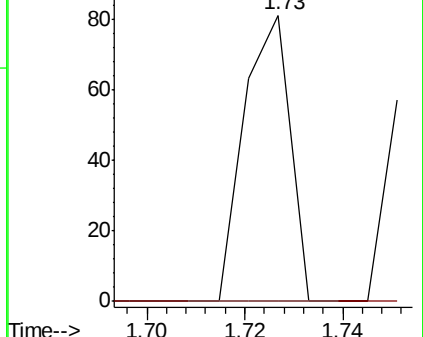
64 100

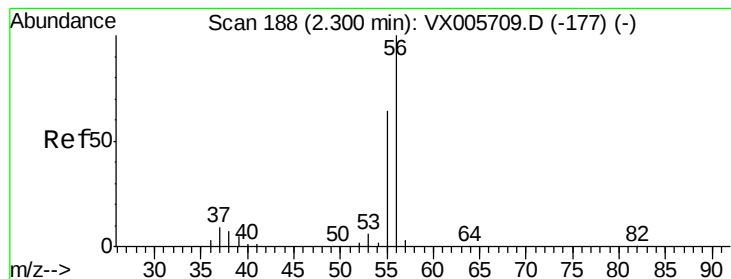
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#13

Acrolein

Concen: 12.250 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

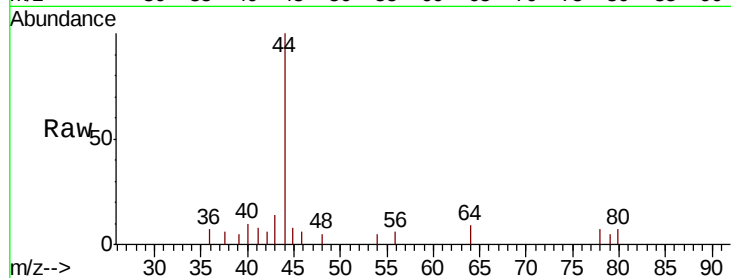
PB114401ZHE#09

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

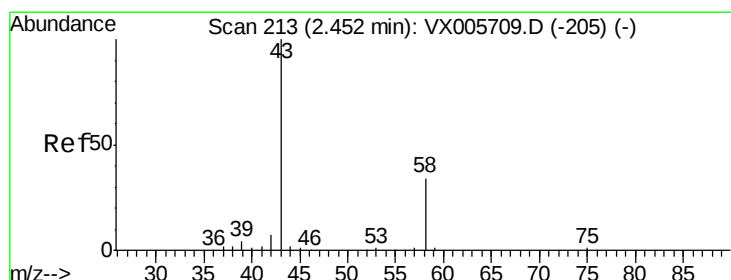
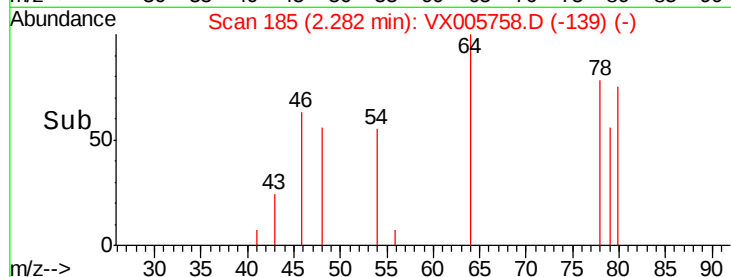
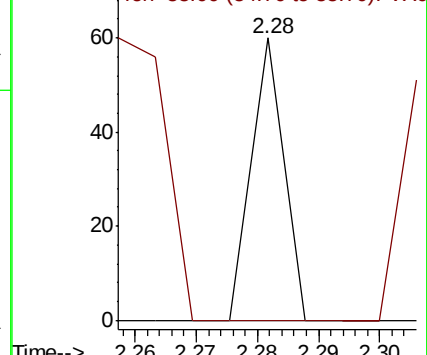
56 100

55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005758.D

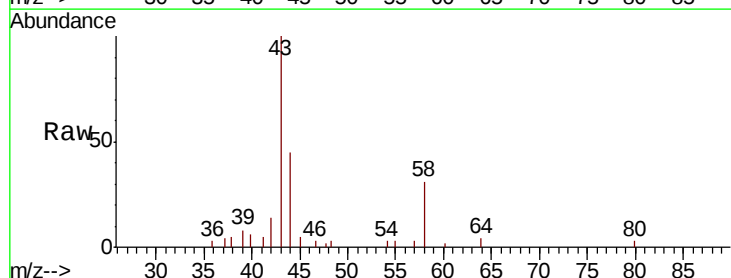
Acq: 02 Nov 2018 16:02

Tgt Ion: 43 Resp: 4364

Ion Ratio Lower Upper

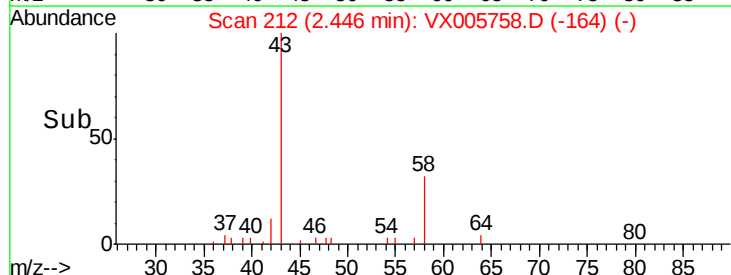
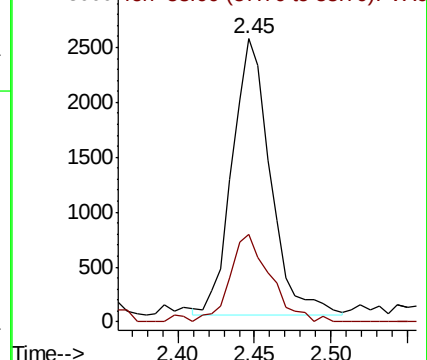
43 100

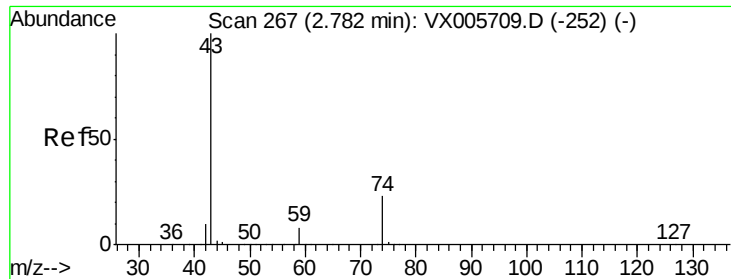
58 31.9 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

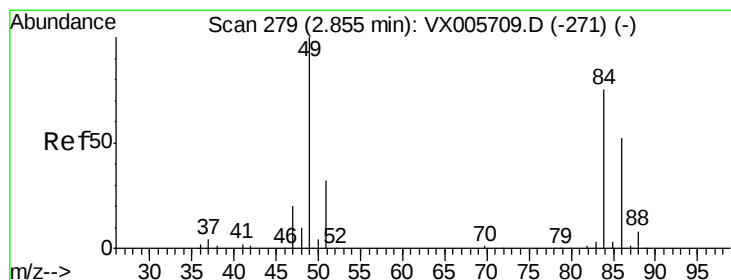
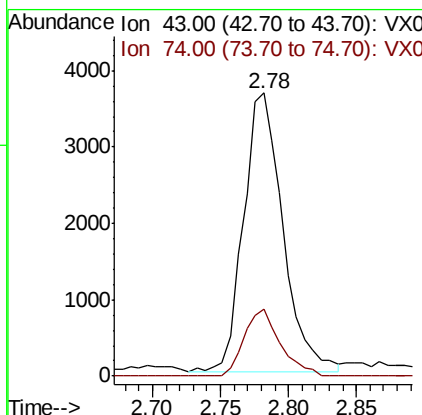
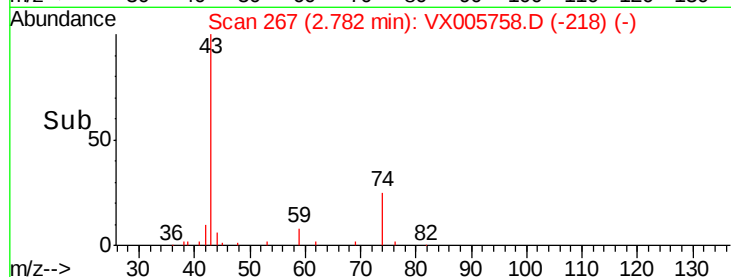
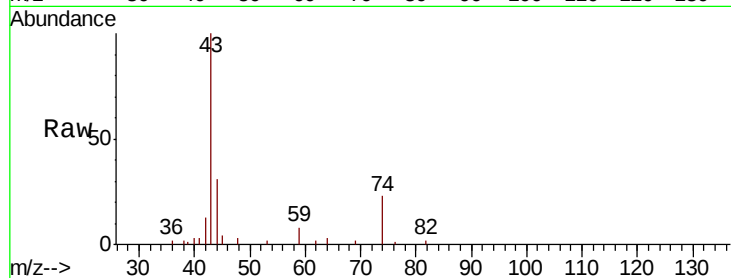




#18
Methvl Acetate
Concen: 3.188 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

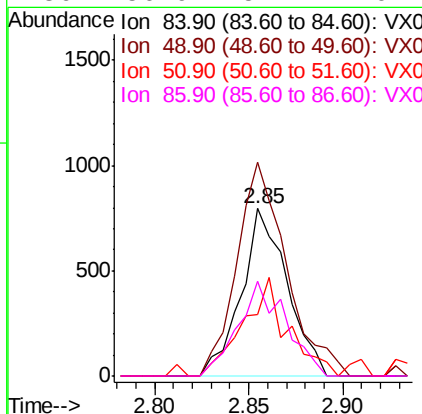
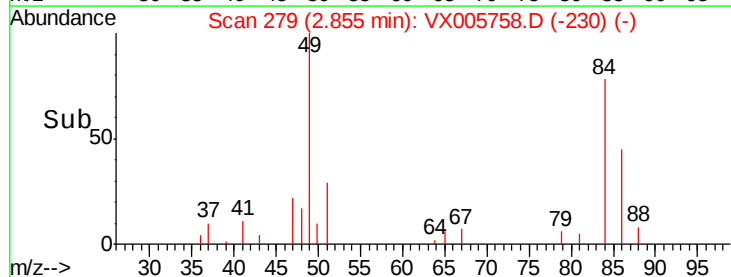
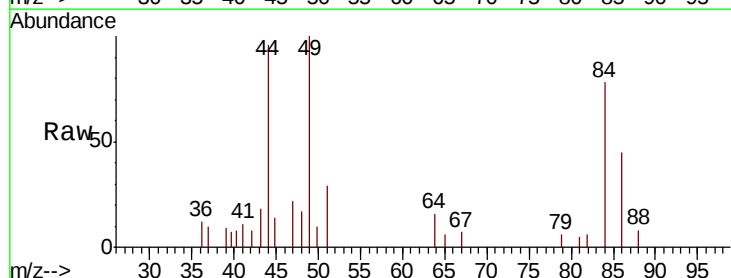
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#09

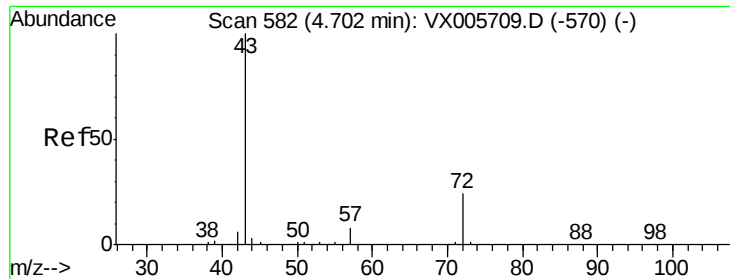
Tot Ion: 43 Resp: 7386
Ion Ratio Lower Upper
43 100
74 21.9 16.8 25.2



#20
Methylene Chloride
Concen: 0.964 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Tgt Ion: 84 Resp: 1342
Ion Ratio Lower Upper
84 100
49 127.5 109.5 164.3
51 36.6 33.3 49.9
86 56.9 52.7 79.1





#25

2-Butanone

Concen: 0.626 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

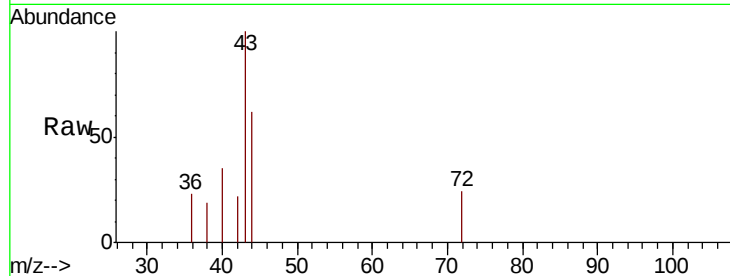
PB114401ZHE#09

Tot Ion: 43 Resp: 852

Ion Ratio Lower Upper

43 100

72 24.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

300

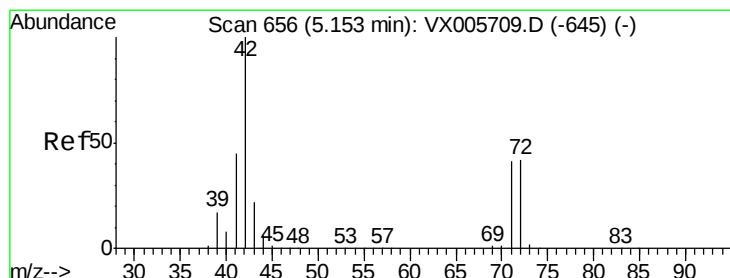
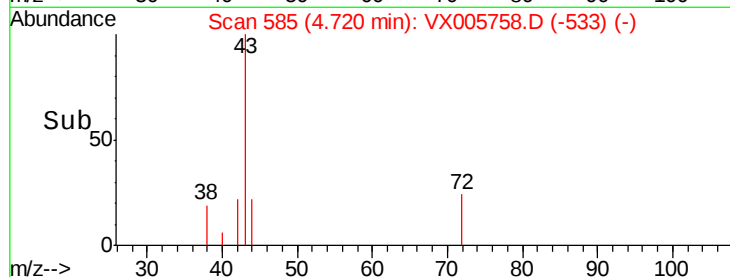
200

100

0

4.65 4.70 4.75 4.80

Time-->



#29

Tetrahydrofuran

Concen: 0.823 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

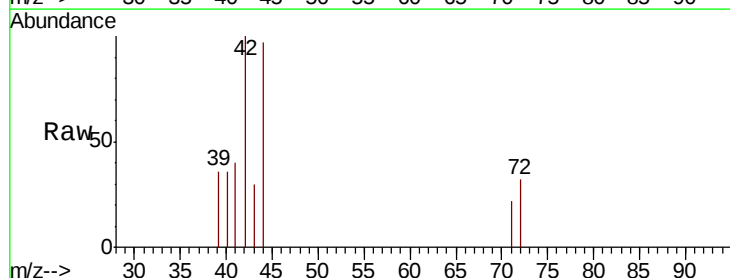
Tgt Ion: 42 Resp: 684

Ion Ratio Lower Upper

42 100

72 18.3 32.0 48.0#

71 18.9 29.8 44.8#



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

300

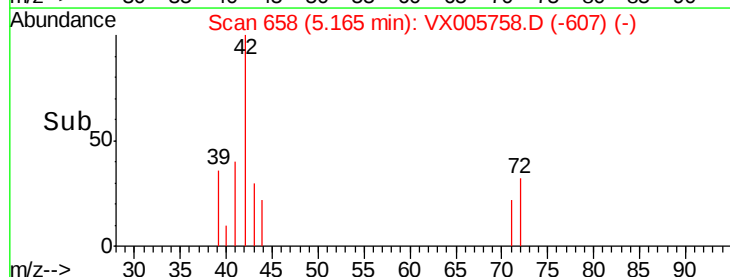
200

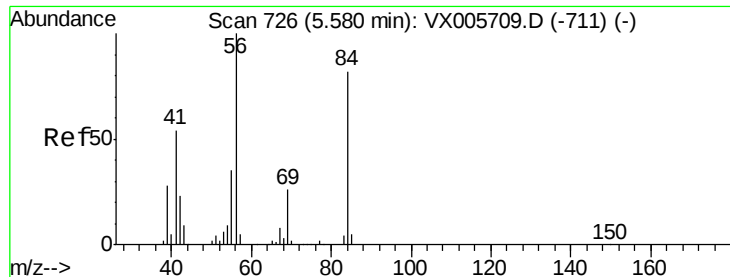
100

0

5.10 5.15 5.20 5.25

Time-->

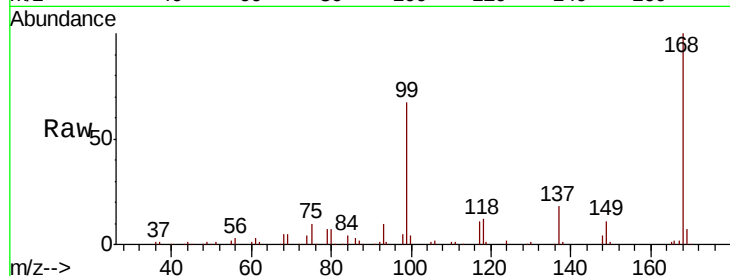




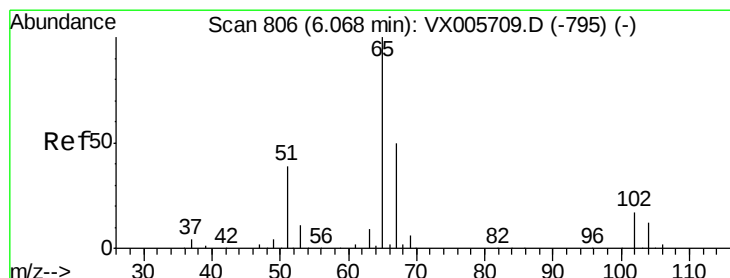
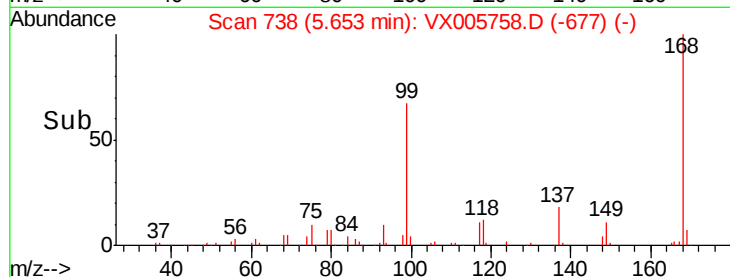
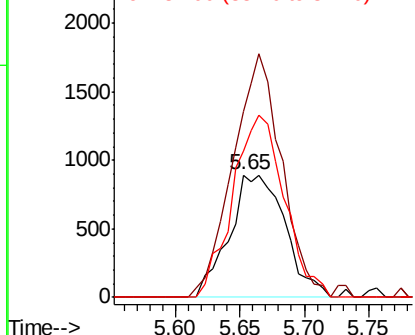
#31
Cyclohexane
Concen: 1.242 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#09

Tot Ion: 56 Resp: 2680
Ion Ratio Lower Upper
56 100
69 152.5 22.6 34.0#
84 119.3 62.7 94.1#

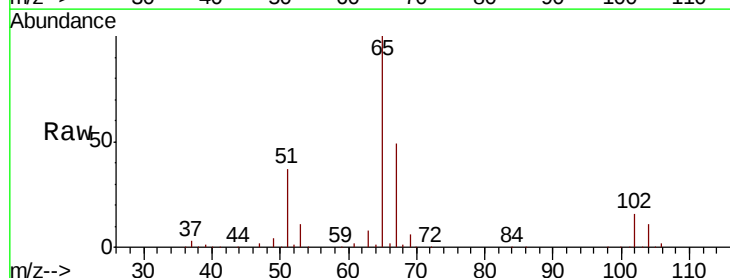


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

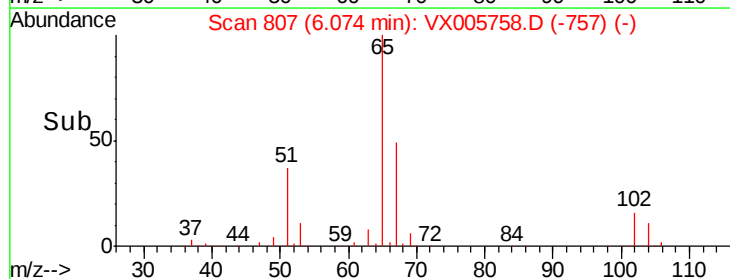
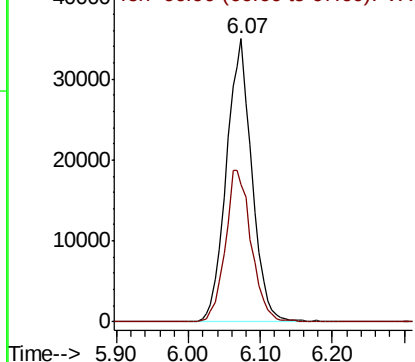


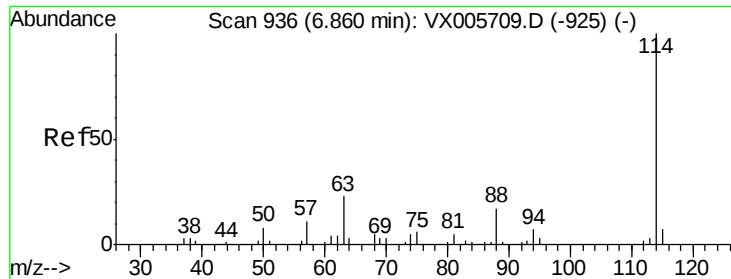
#33
1,2-Dichloroethane-d4
Concen: 53.193 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Tgt Ion: 65 Resp: 85879
Ion Ratio Lower Upper
65 100
67 54.7 0.0 105.0



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

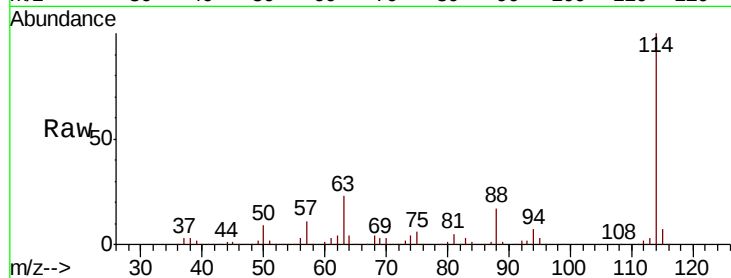




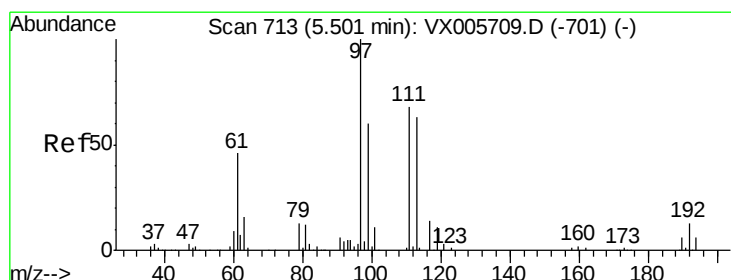
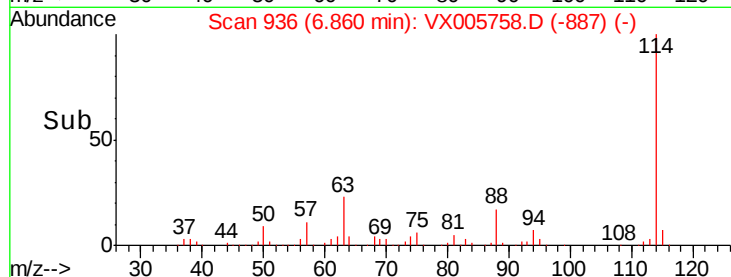
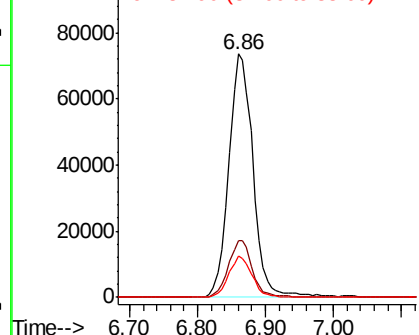
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#09

Tot Ion:114 Resp: 181473
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 42.8
 88 16.8 0.0 31.2

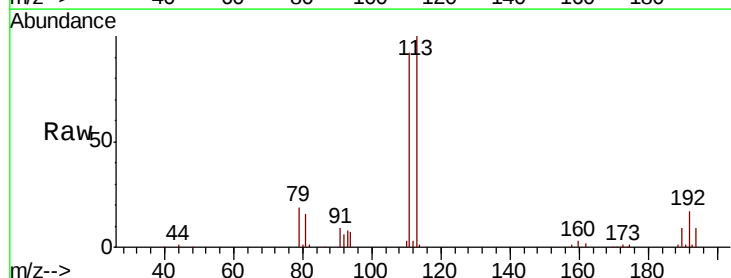


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

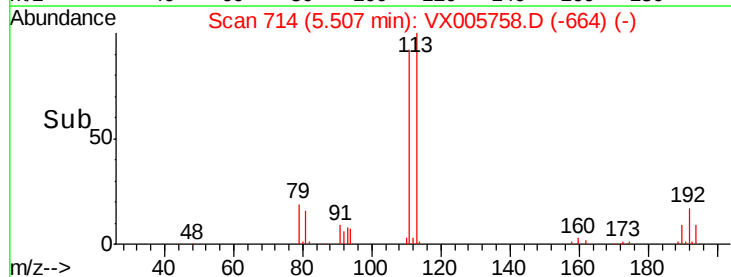
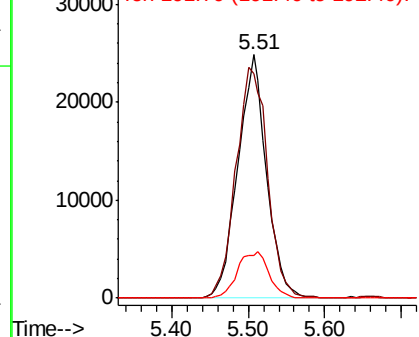


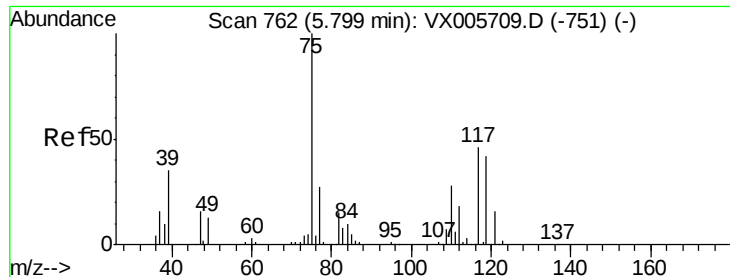
#35
 Dibromofluoromethane
 Concen: 51.416 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

Tgt Ion:113 Resp: 64606
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.3 123.5
 192 20.8 17.9 26.9



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: 5.277 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#09

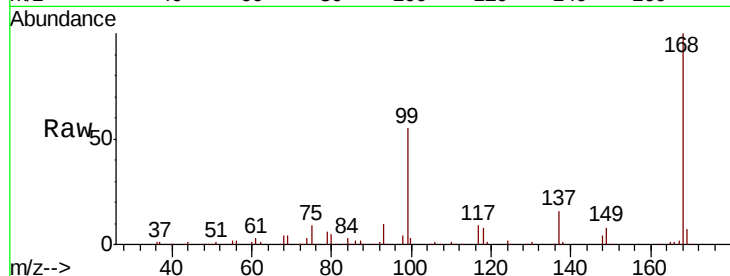
Tot Ion: 75 Resp: 10203

Ion Ratio Lower Upper

75 100

110 7.6 17.4 52.2#

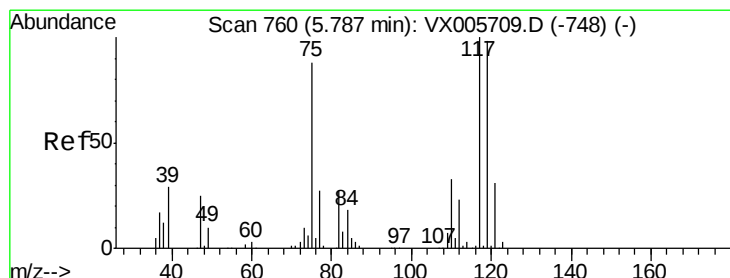
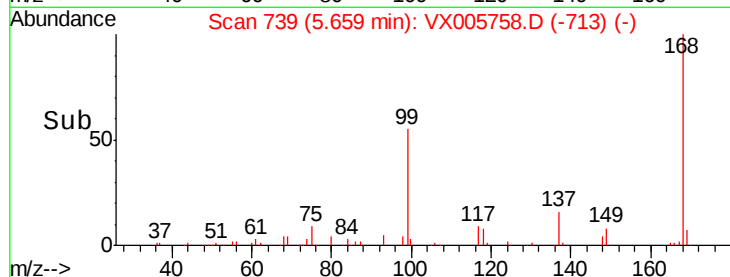
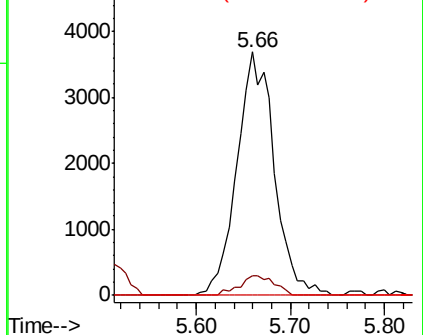
77 0.0 25.8 38.6#



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: 6.324 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

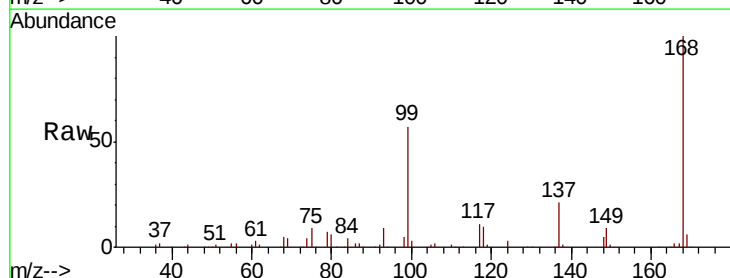
Tgt Ion: 117 Resp: 11046

Ion Ratio Lower Upper

117 100

119 4.9 78.1 117.1#

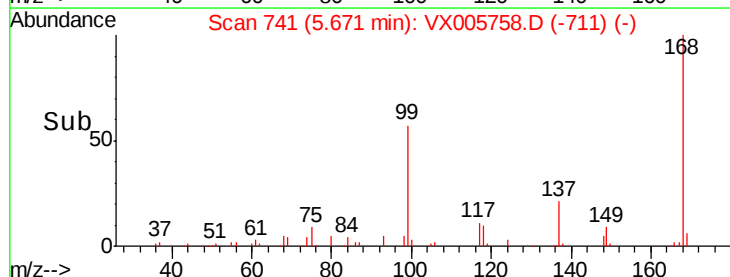
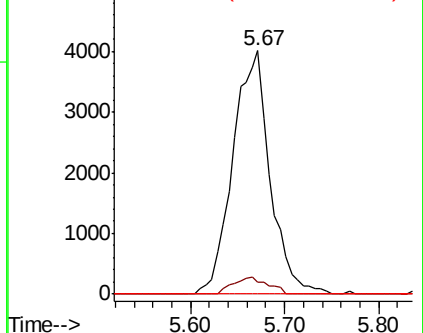
121 0.0 24.6 36.8#

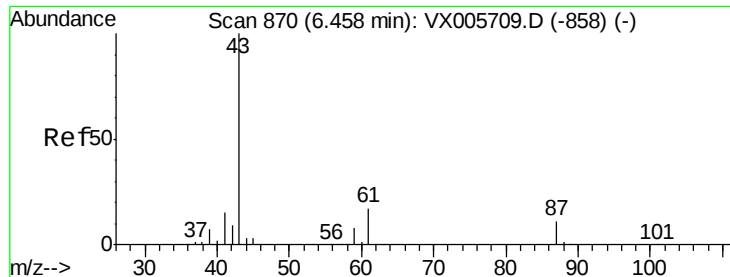


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



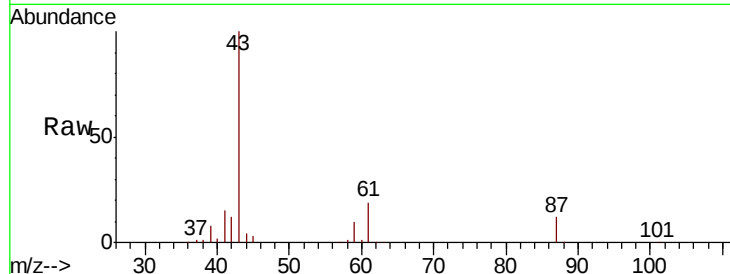


#43

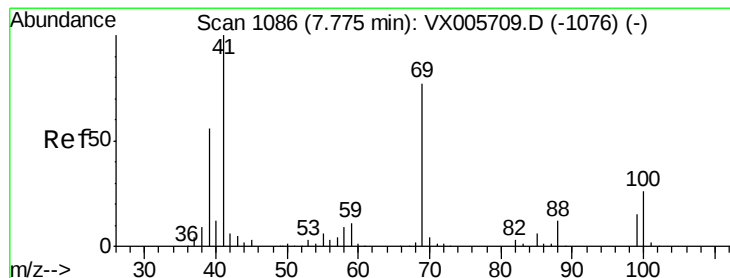
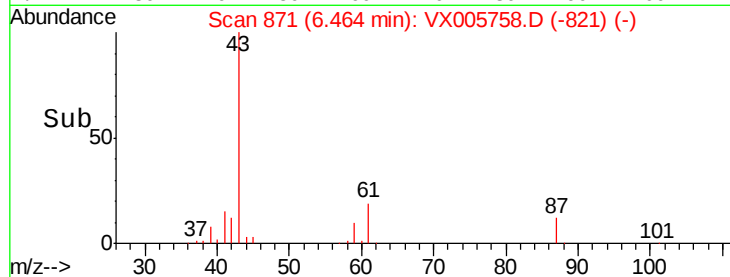
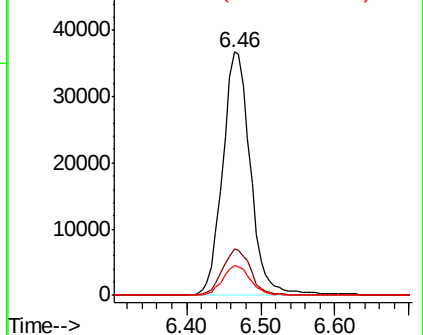
Isopropyl Acetate
 Concen: 26.793 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#09

Tot Ion	43	61	87	Resp	Lower	Upper
43	100					
61	19.5	14.6	22.0			
87	12.3	9.6	14.4			



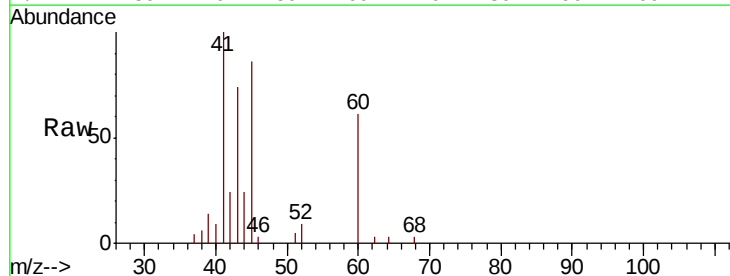
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



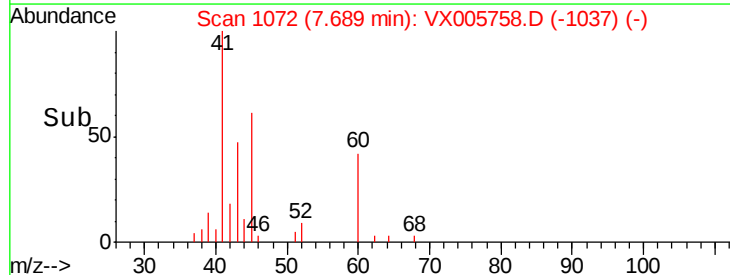
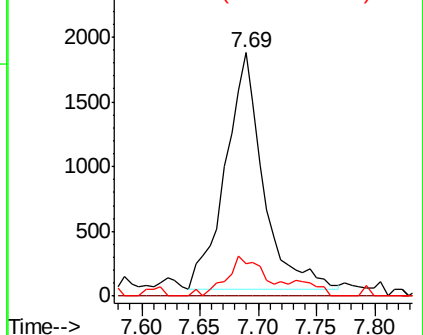
#48

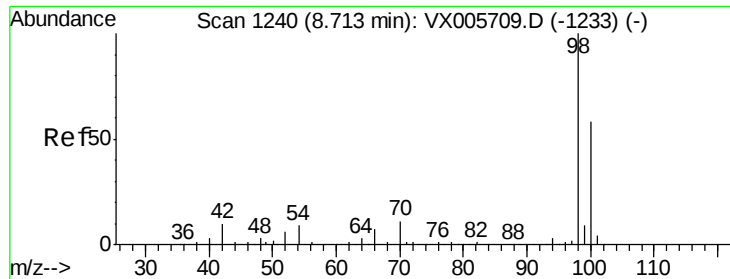
Methyl methacrylate
 Concen: 2.375 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

Tgt Ion	41	69	39	Resp	Lower	Upper
41	100					
69	0.0	63.2	94.8#			
39	15.5	42.2	63.2#			



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: 52.791 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

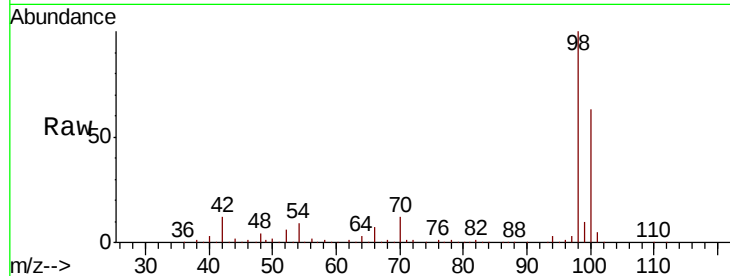
PB114401ZHE#09

Tot Ion: 98 Resp: 232653

Ion Ratio Lower Upper

98 100

100 61.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

150000

100000

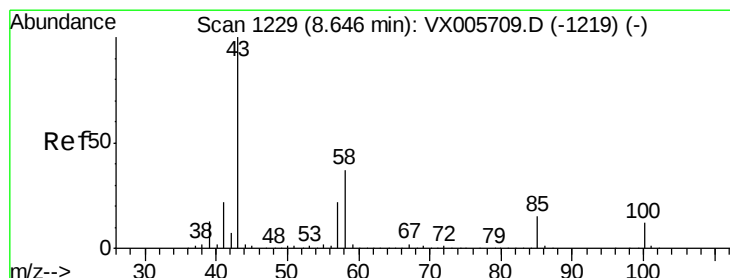
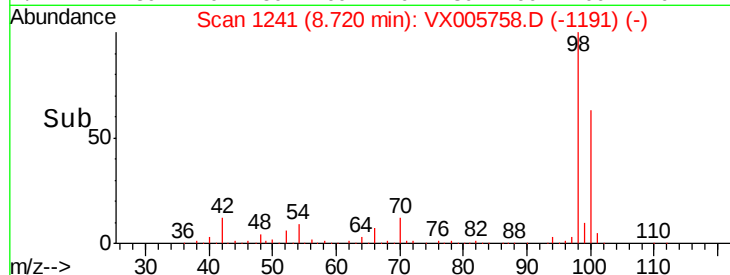
50000

0

8.60 8.70 8.80 8.90

8.72

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.665 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005758.D

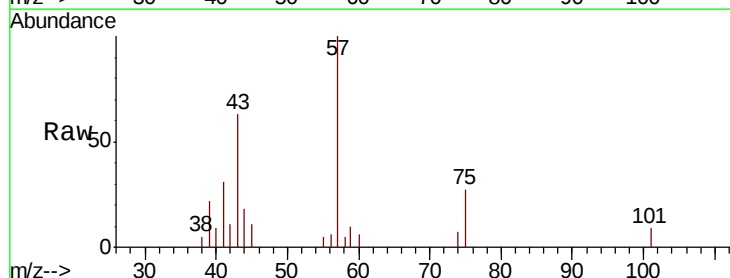
Acq: 02 Nov 2018 16:02

Tgt Ion: 43 Resp: 1623

Ion Ratio Lower Upper

43 100

58 4.1 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

1000

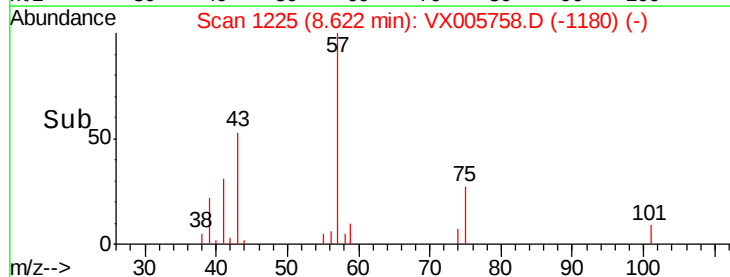
500

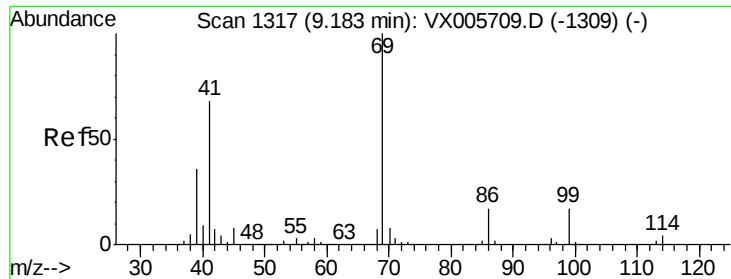
0

8.55 8.60 8.65 8.70

8.62

Time-->





#56

Ethyl methacrylate

Concen: 2.489 ug/l

RT: 9.03 min Scan# 1292

Delta R.T. -0.15 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#09

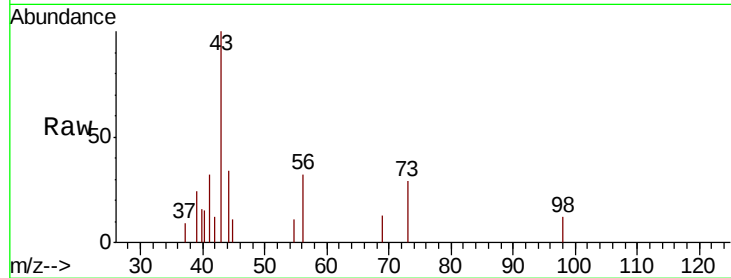
Tot Ion: 69 Resp: 45

Ion Ratio Lower Upper

69 100

41 840.0 57.0 85.6#

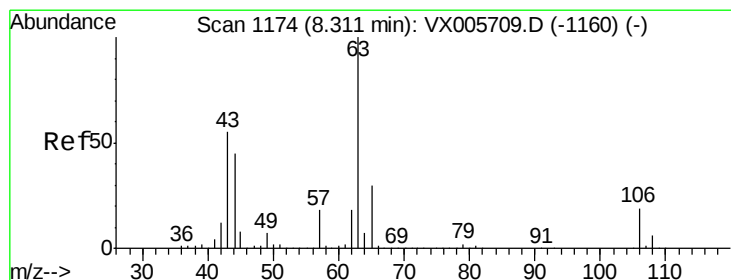
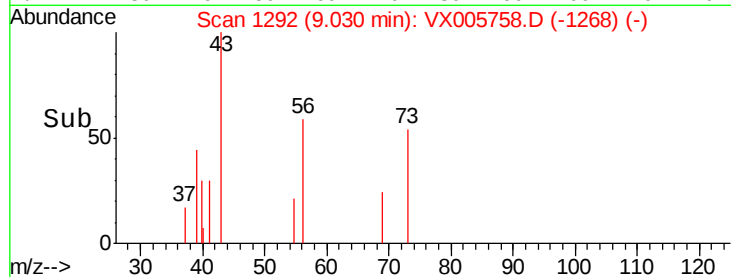
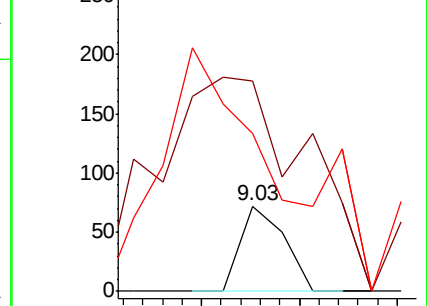
39 820.0 28.3 42.5#



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: 10.353 ug/l

RT: 8.55 min Scan# 1214

Delta R.T. 0.24 min

Lab File: VX005758.D

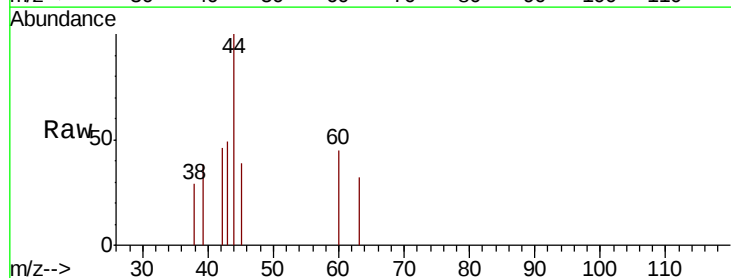
Acq: 02 Nov 2018 16:02

Tgt Ion: 63 Resp: 21

Ion Ratio Lower Upper

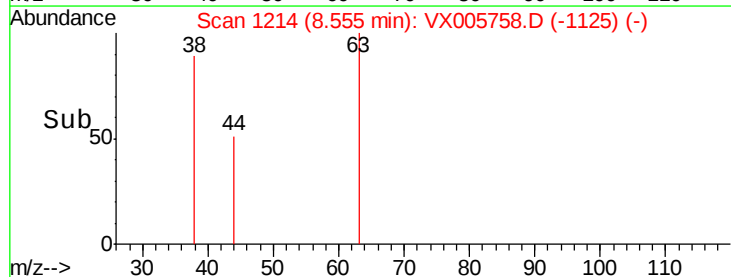
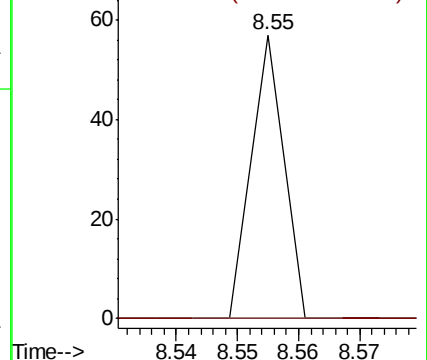
63 100

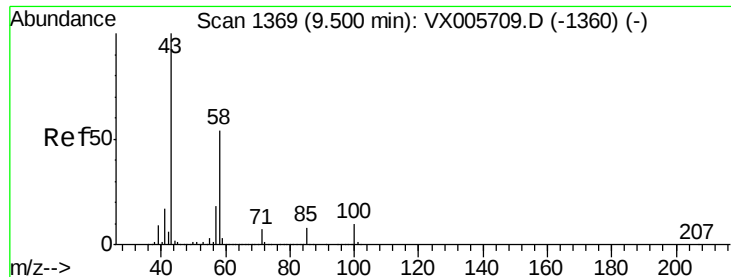
106 0.0 21.3 31.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

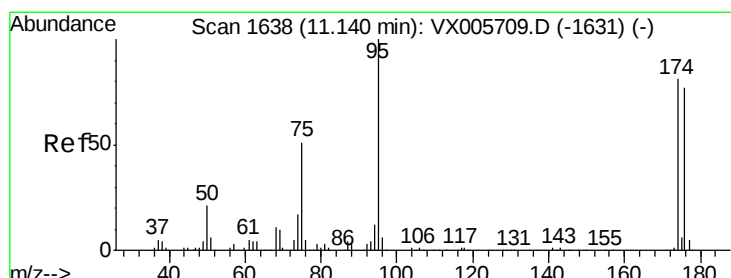
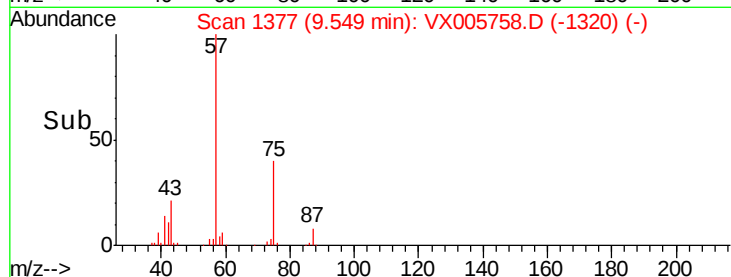
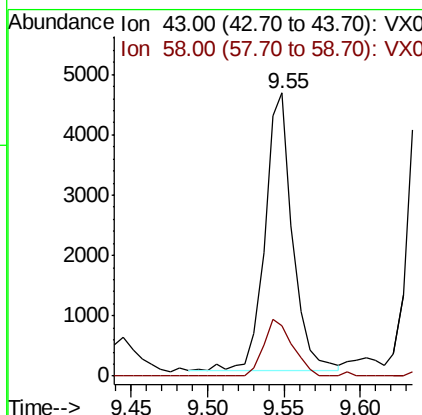
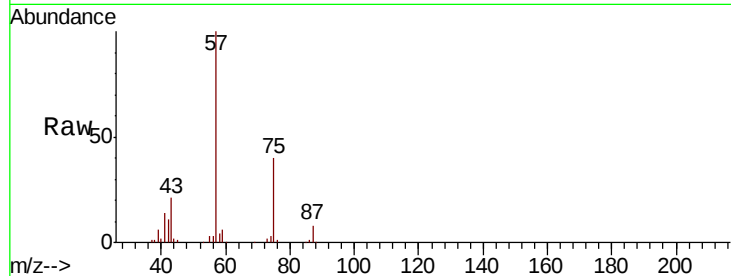




#59
2-Hexanone
Concen: 2.945 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

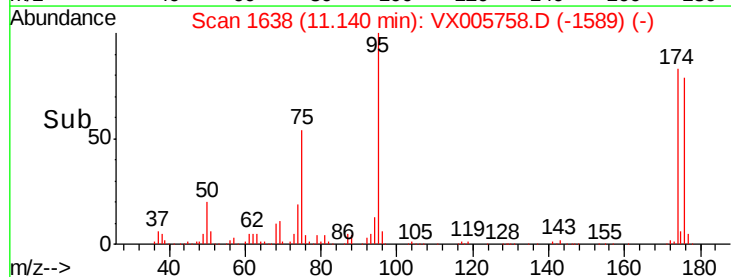
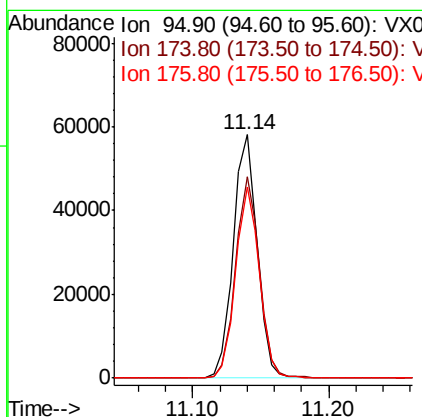
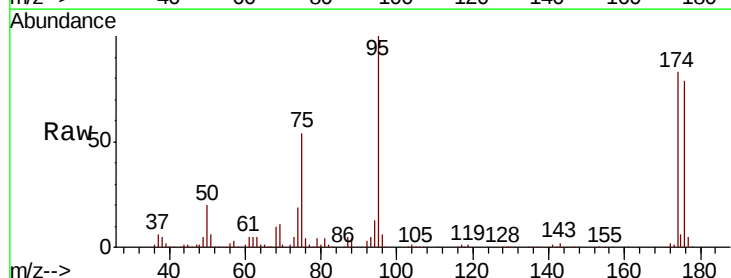
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#09

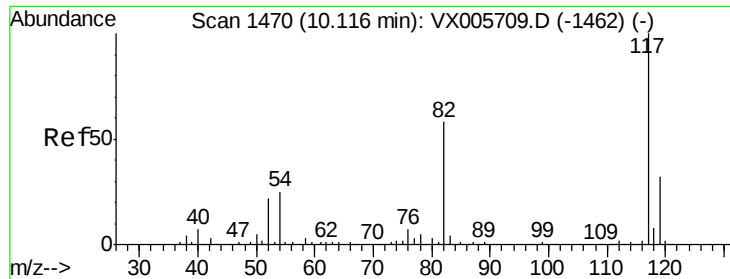
Tot Ion: 43 Resp: 5850
Ion Ratio Lower Upper
43 100
58 21.4 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 43.733 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Tgt Ion: 95 Resp: 71132
Ion Ratio Lower Upper
95 100
174 82.8 0.0 184.4
176 78.1 0.0 177.4

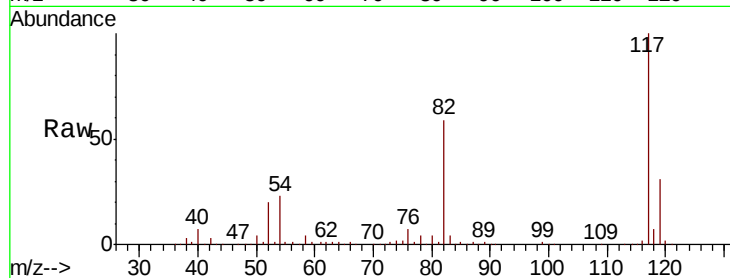




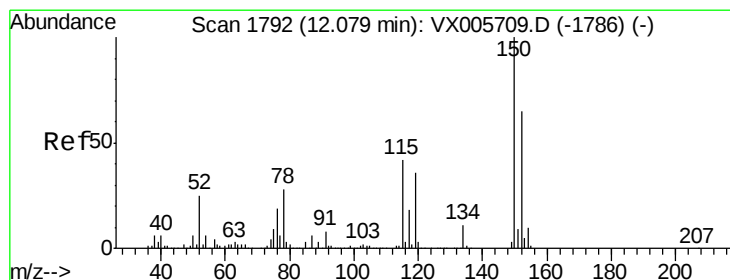
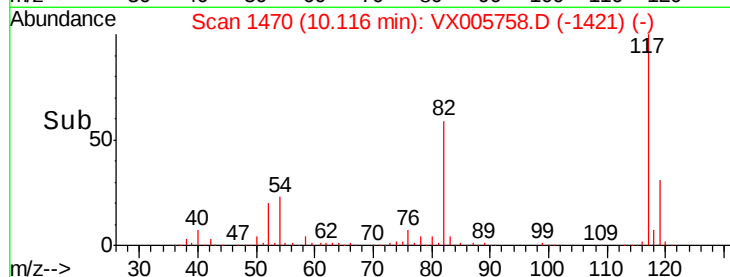
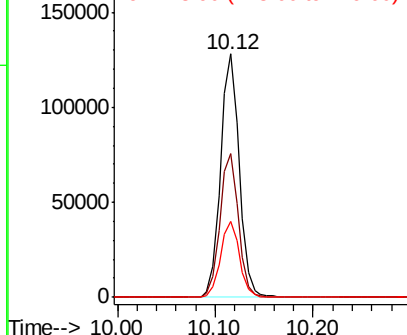
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#09

Tot Ion:117 Resp: 169674
Ion Ratio Lower Upper
117 100
82 59.2 44.1 66.1
119 31.0 26.2 39.2

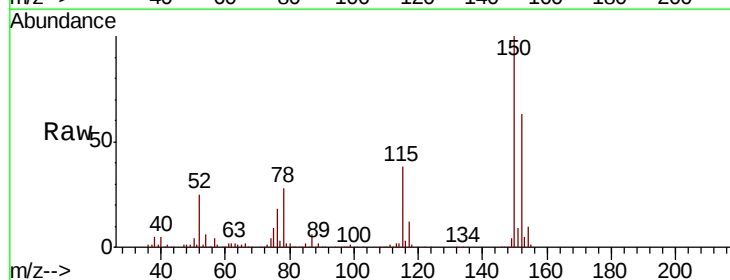


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

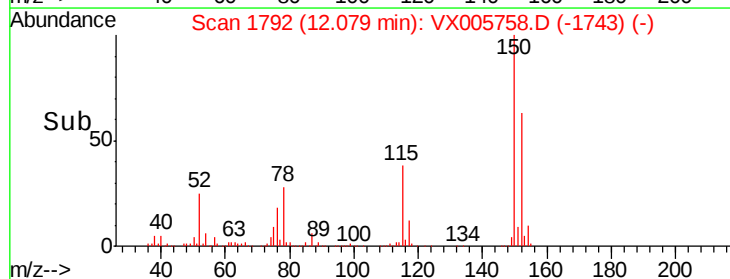
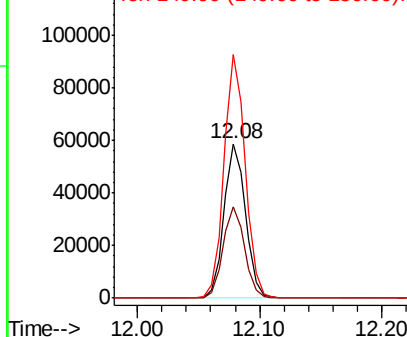


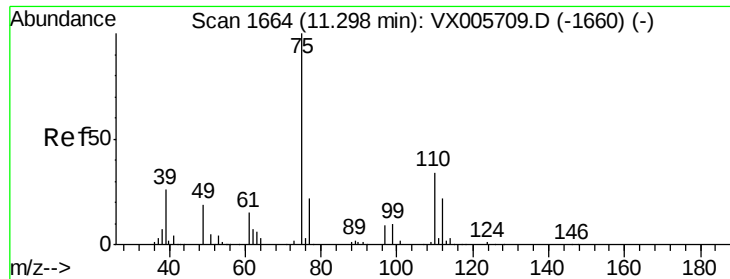
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005758.D
Acq: 02 Nov 2018 16:02

Tgt Ion:152 Resp: 71136
Ion Ratio Lower Upper
152 100
115 59.6 39.4 118.1
150 155.8 0.0 346.4



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

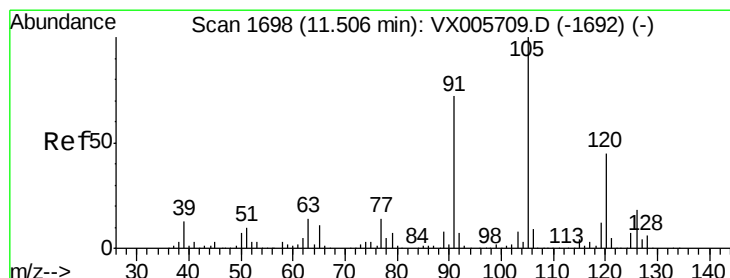
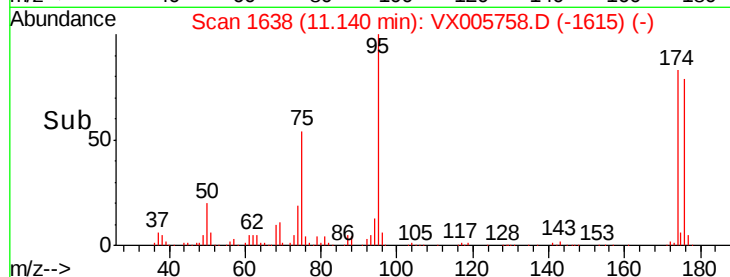
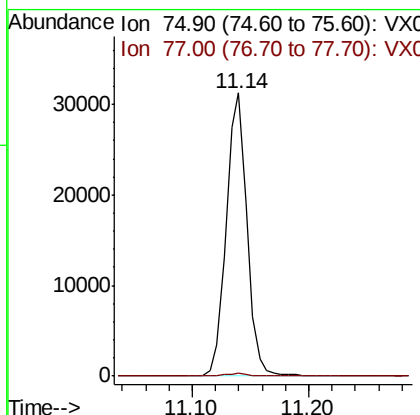
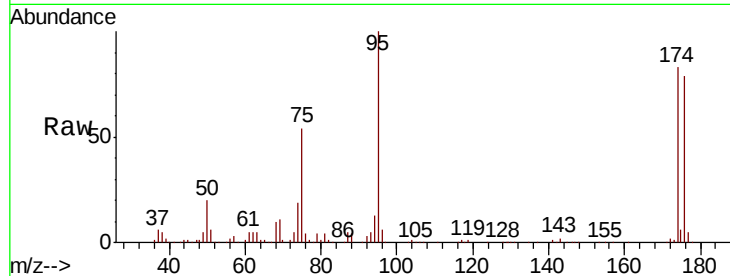




#76
 1,2,3-Trichloropropane
 Concen: 21.754 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

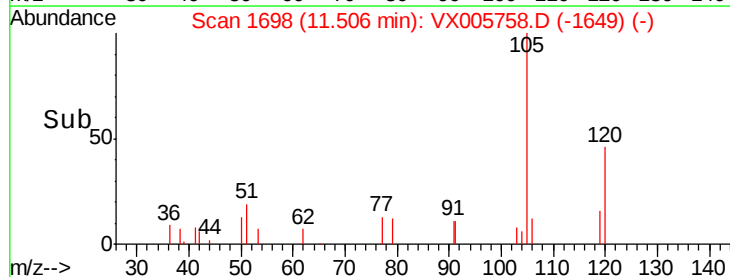
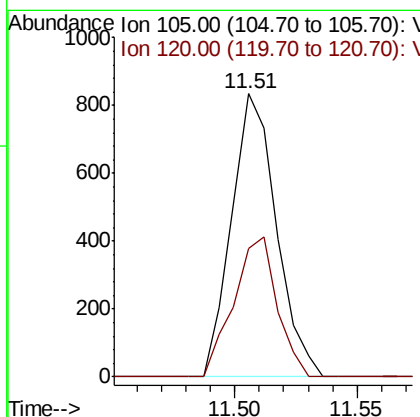
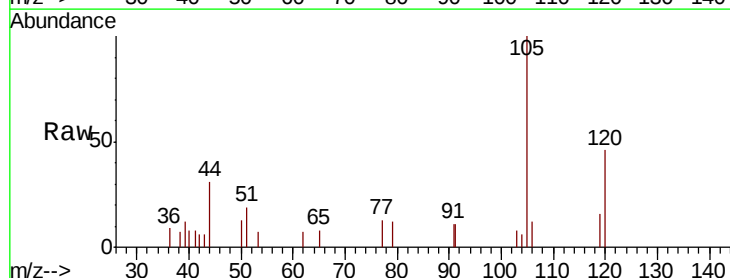
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#09

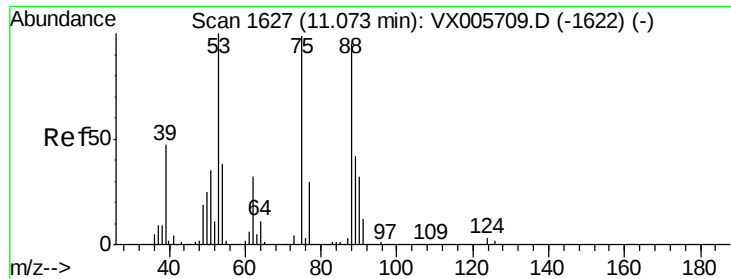
Tot Ion: 75 Resp: 38543
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.5 61.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.267 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005758.D
 Acq: 02 Nov 2018 16:02

Tgt Ion: 105 Resp: 1062
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 70.287 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005758.D

Acq: 02 Nov 2018 16:02

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#09

Tot Ion: 75 Resp: 38543

Ion Ratio Lower Upper

75 100

53 0.5 80.2 120.2#

89 0.0 39.8 59.8#

