

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\
 Data File : VX005759.D
 Acq On : 02 Nov 2018 16:29
 Operator : JC/MD
 Sample : PB114401ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#10

Quant Time: Nov 03 01:28:26 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	5.67	168	108188	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	179068	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	165936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	69262	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	83805	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
35) Dibromofluoromethane	5.51	113	63606	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	8.72	98	228689	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	11.14	95	70402	43.87	ug/l	0.00
Spiked Amount			Recovery	=	87.74%	

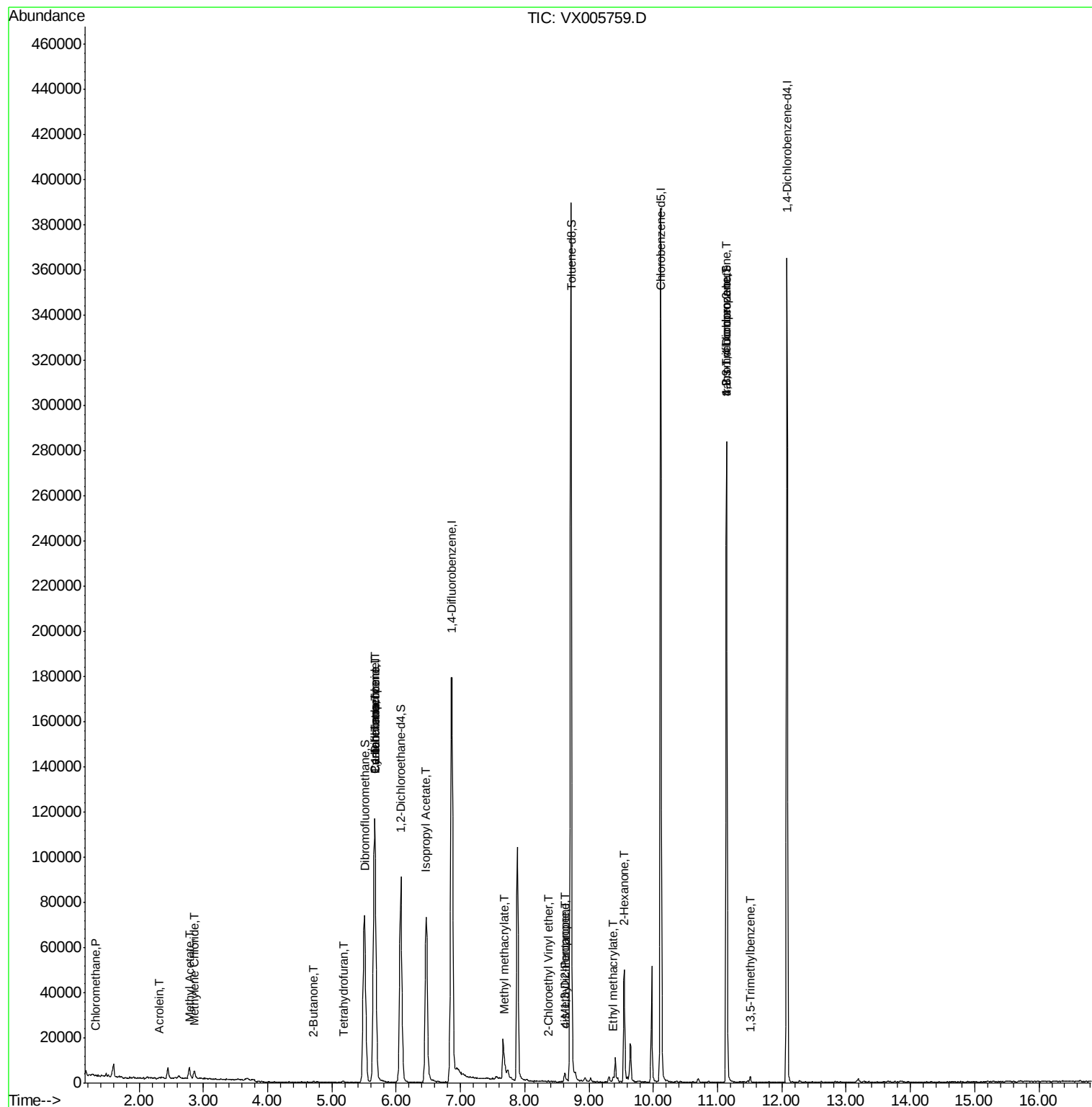
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	329	0.223	ug/l	94
6) Chloroethane	1.73	64	20	Below Cal	#	42
13) Acrolein	2.32	56	63	12.378	ug/l #	14
16) Acetone	2.45	43	4532	Below Cal		96
18) Methyl Acetate	2.78	43	6524	2.874	ug/l	100
20) Methylene Chloride	2.85	84	1316	0.965	ug/l #	81
25) 2-Butanone	4.71	43	447	0.335	ug/l #	46
29) Tetrahydrofuran	5.17	42	268	0.329	ug/l #	79
31) Cyclohexane	5.67	56	2810	1.330	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	9436	4.946	ug/l #	49
38) Carbon Tetrachloride	5.67	117	11084	6.431	ug/l #	18
43) Isopropyl Acetate	6.46	43	97304	27.544	ug/l	99
48) Methyl methacrylate	7.69	41	4582	2.680	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1746	0.725	ug/l #	53
54) cis-1,3-Dichloropropene	8.62	75	498	0.246	ug/l #	76
56) Ethyl methacrylate	9.38	69	80	2.504	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.37	63	23	10.355	ug/l #	48
59) 2-Hexanone	9.55	43	5556	2.834	ug/l #	63
76) 1,2,3-Trichloropropane	11.14	75	37176	21.551	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1040	0.268	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	37176	69.629	ug/l #	9

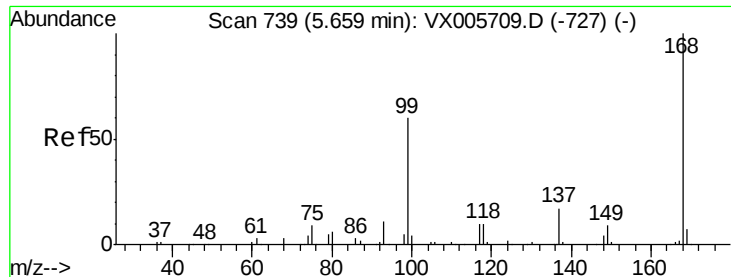
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 18:23:06 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

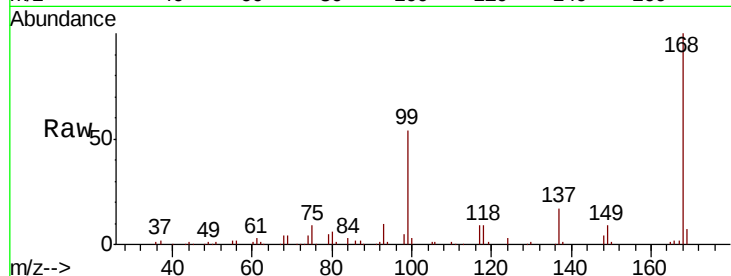
PB114401ZHE#10

Tot Ion:168 Resp: 108188

Ion Ratio Lower Upper

168 100

99 54.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

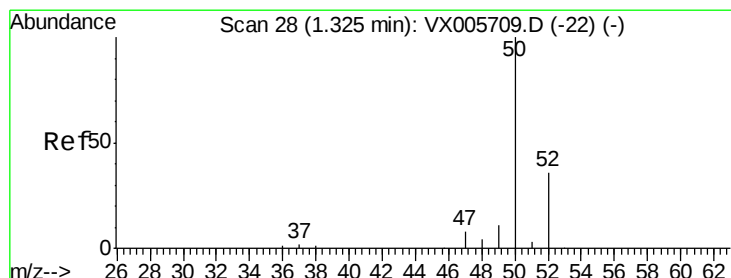
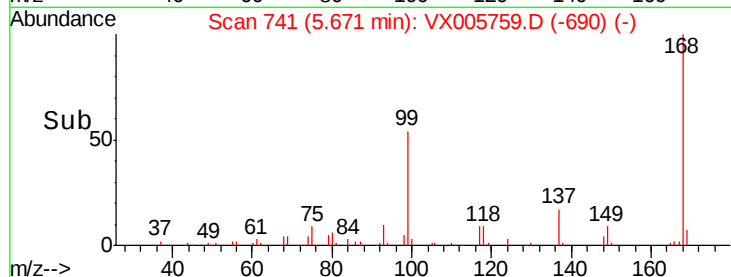
20000

10000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.223 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005759.D

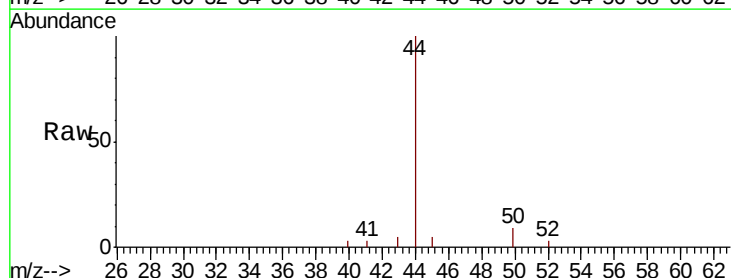
Acq: 02 Nov 2018 16:29

Tgt Ion: 50 Resp: 329

Ion Ratio Lower Upper

50 100

52 29.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

150

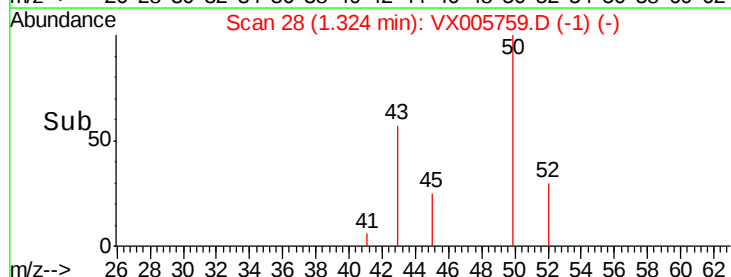
100

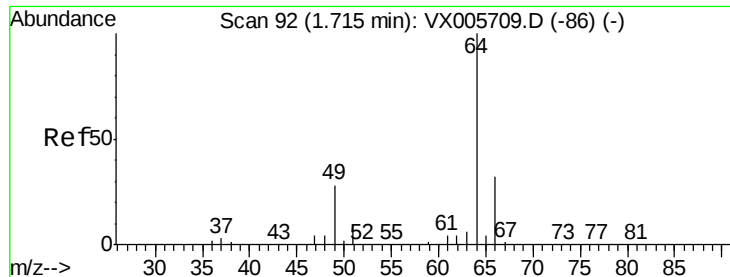
50

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

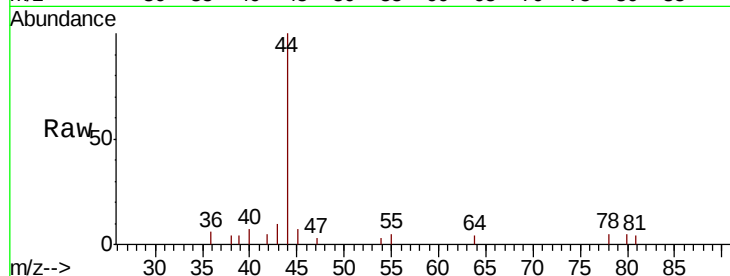
PB114401ZHE#10

Tot Ion: 64 Resp: 20

Ion Ratio Lower Upper

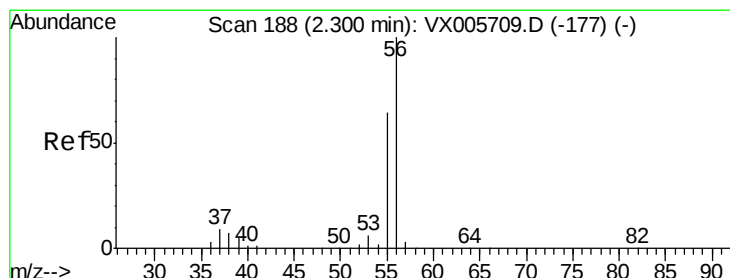
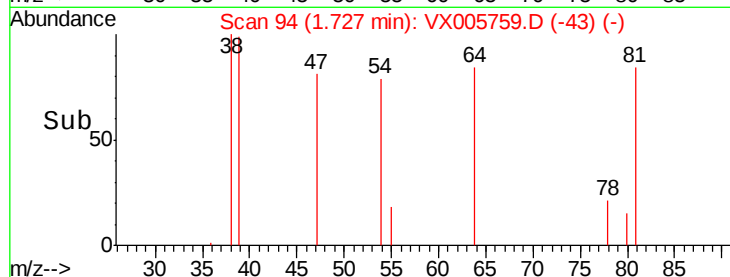
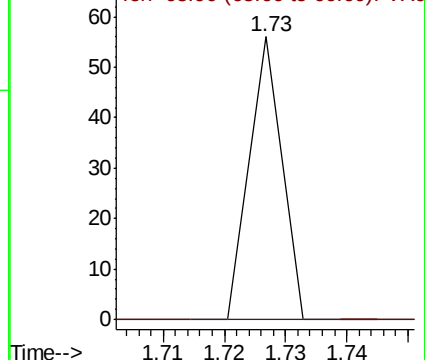
64 100

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: 12.378 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX005759.D

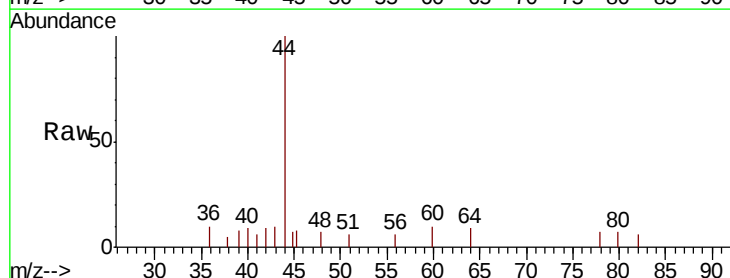
Acq: 02 Nov 2018 16:29

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

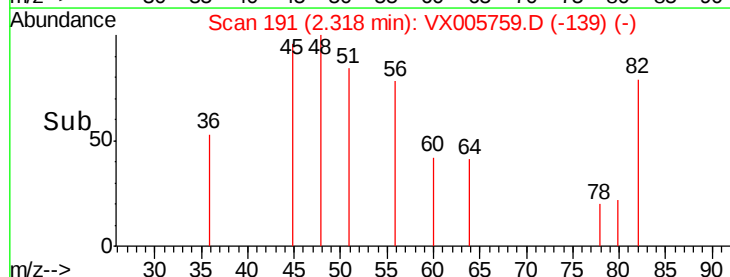
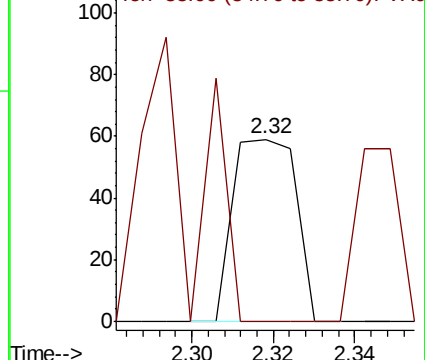
56 100

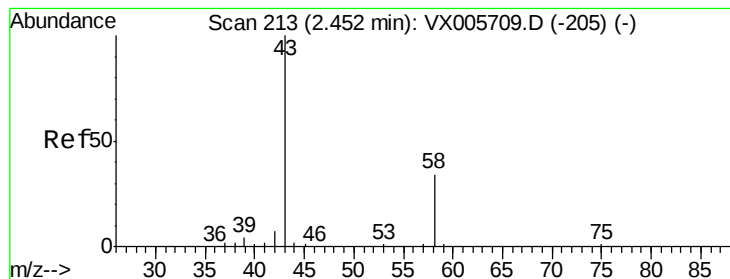
55 0.0 57.3 85.9#



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: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

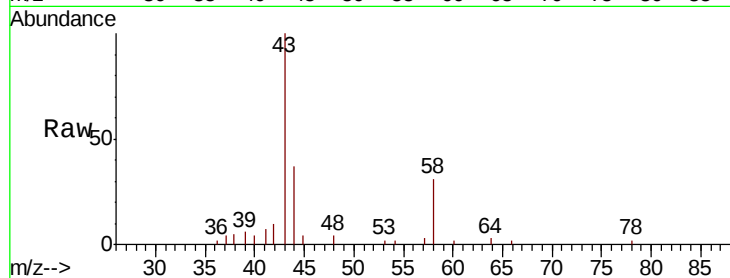
PB114401ZHE#10

Tot Ion: 43 Resp: 4532

Ion Ratio Lower Upper

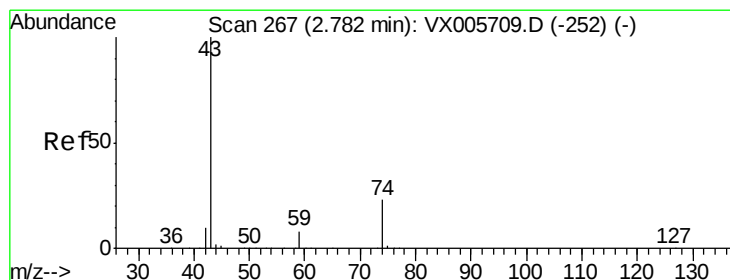
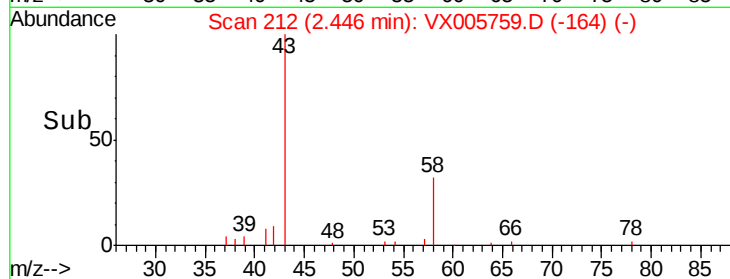
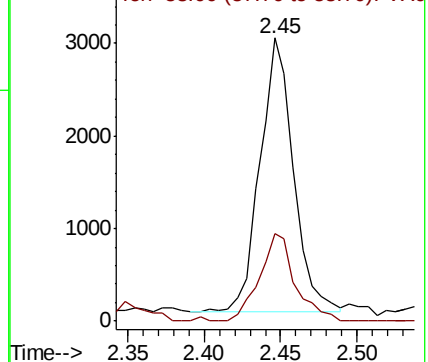
43 100

58 31.8 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 2.874 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005759.D

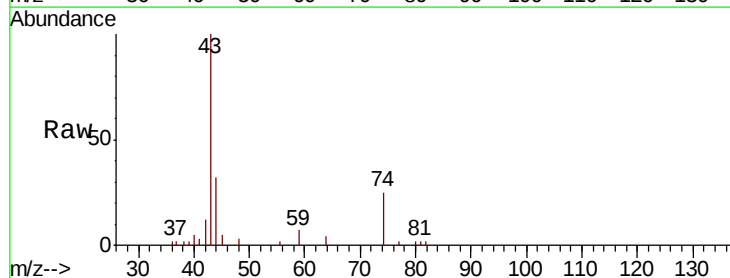
Acq: 02 Nov 2018 16:29

Tgt Ion: 43 Resp: 6524

Ion Ratio Lower Upper

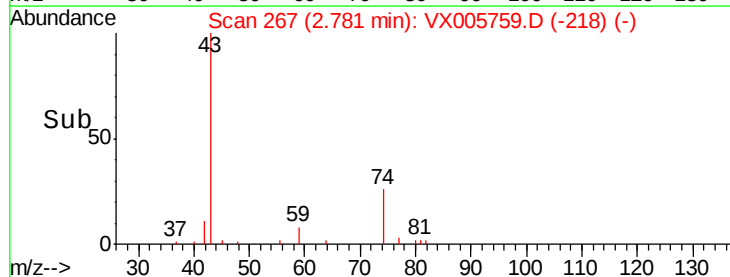
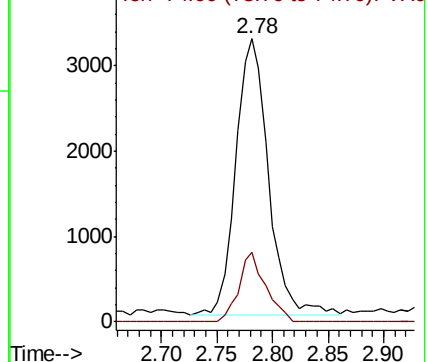
43 100

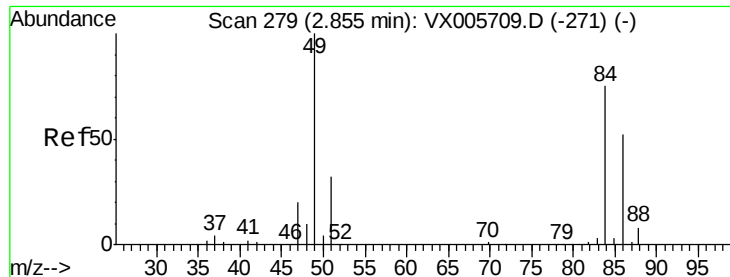
74 20.8 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

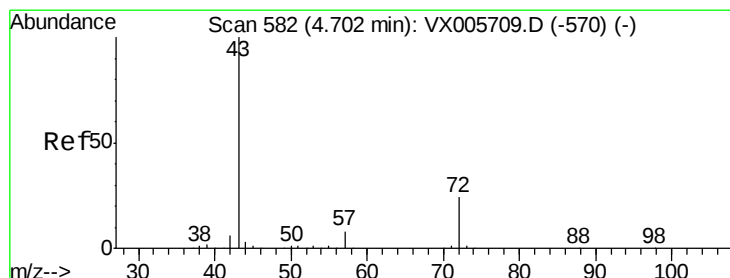
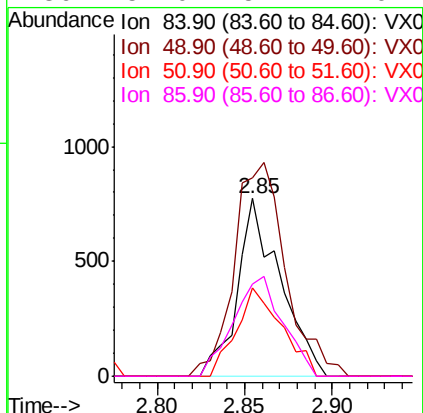
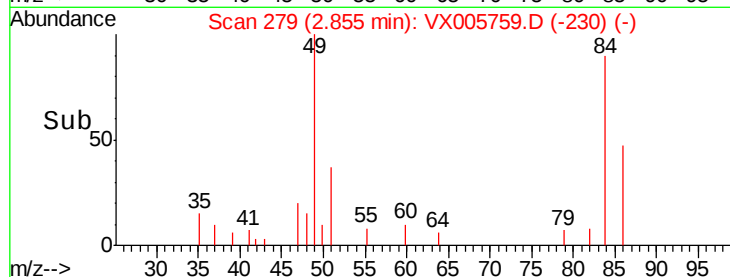
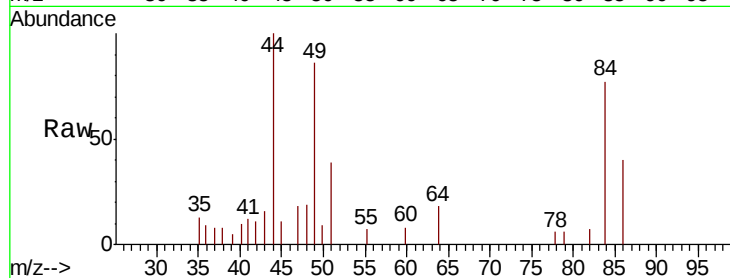




#20
Methylene Chloride
Concen: 0.965 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

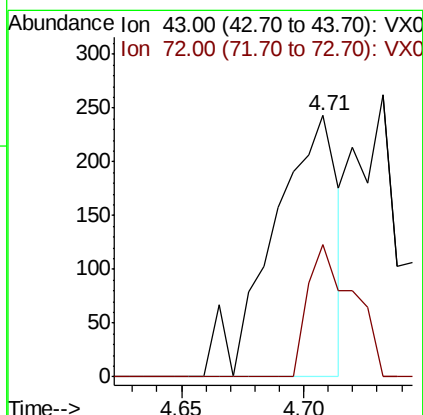
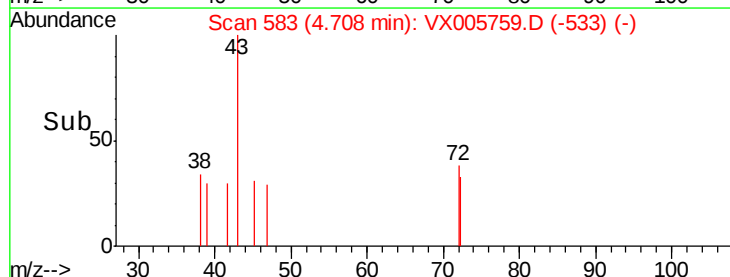
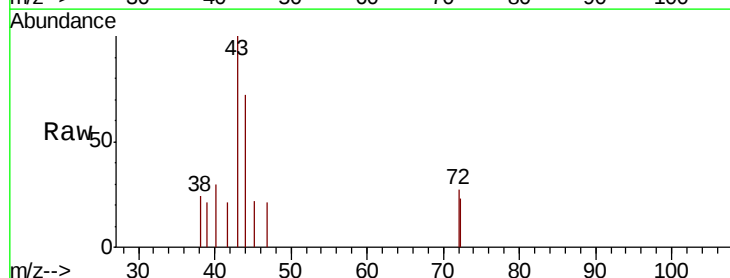
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#10

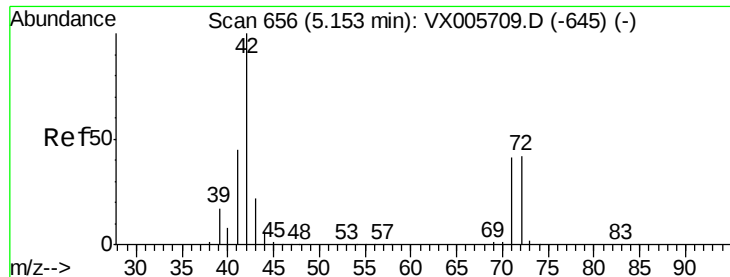
Tot Ion: 84 Resp: 1316
Ion Ratio Lower Upper
84 100
49 111.6 109.5 164.3
51 50.1 33.3 49.9#
86 52.0 52.7 79.1#



#25
2-Butanone
Concen: 0.335 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

Tgt Ion: 43 Resp: 447
Ion Ratio Lower Upper
43 100
72 50.6 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.329 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#10

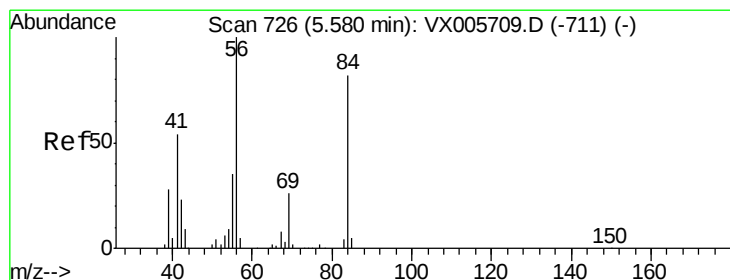
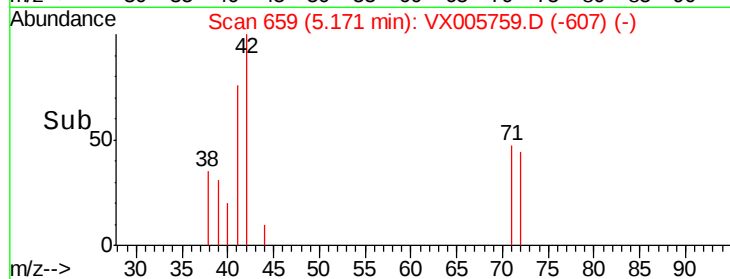
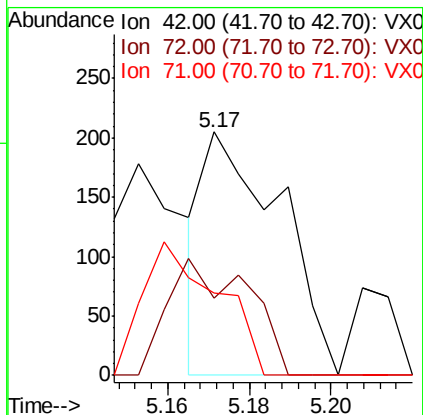
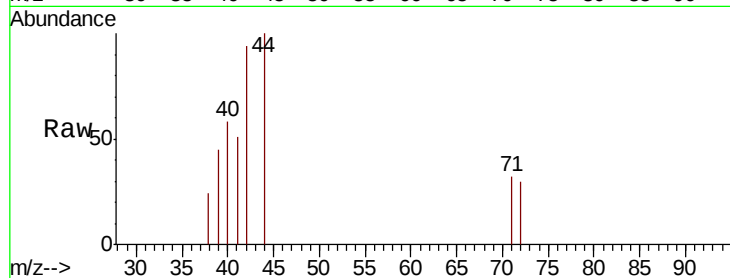
Tot Ion: 42 Resp: 268

Ion Ratio Lower Upper

42 100

72 49.6 32.0 48.0#

71 53.4 29.8 44.8#



#31

Cyclohexane

Concen: 1.330 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

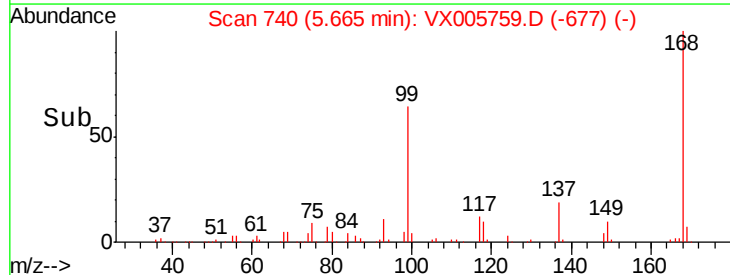
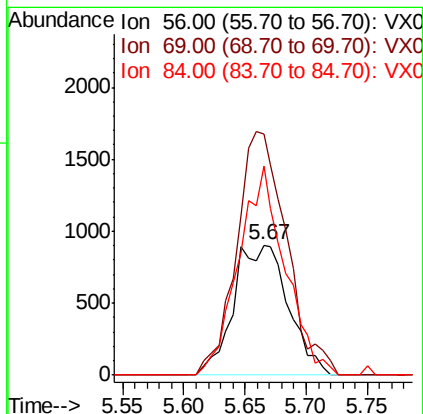
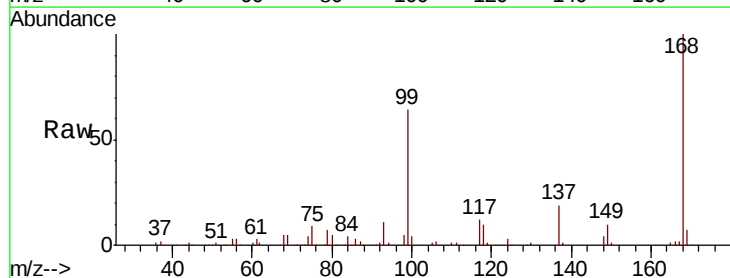
Tgt Ion: 56 Resp: 2810

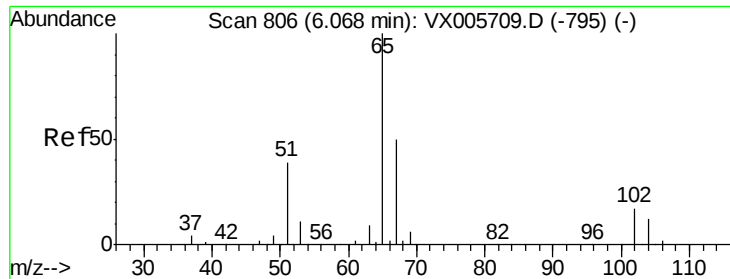
Ion Ratio Lower Upper

56 100

69 185.8 22.6 34.0#

84 161.0 62.7 94.1#

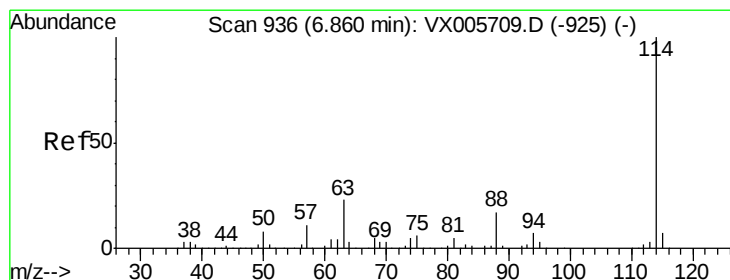
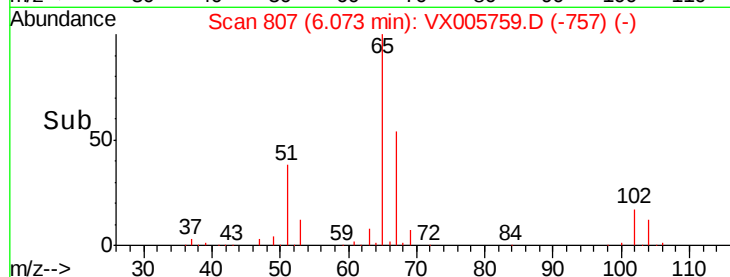
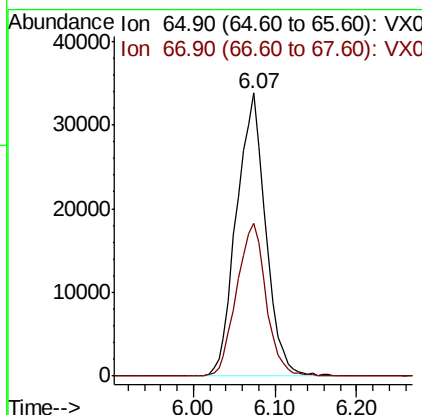
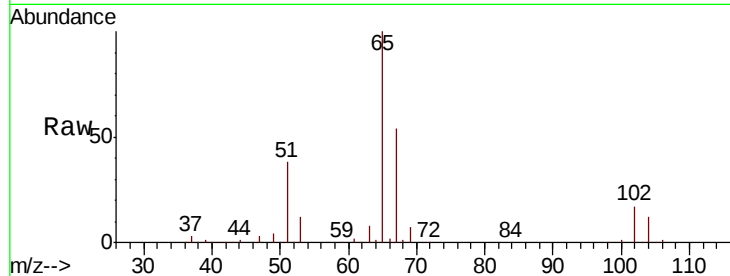




#33
 1,2-Dichloroethane-d4
 Concen: 52.983 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

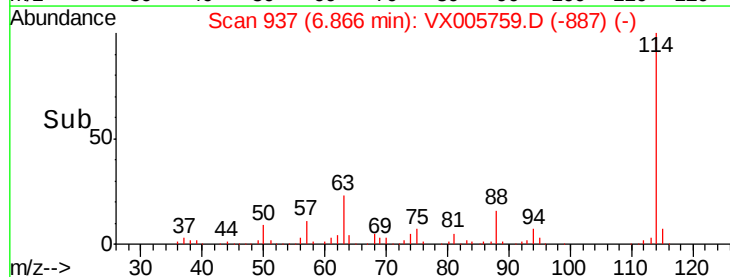
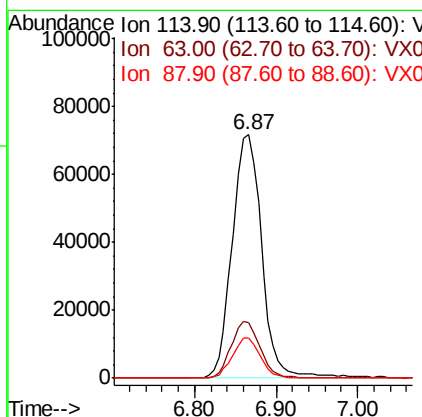
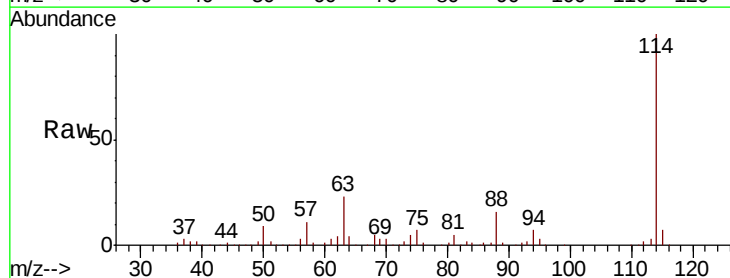
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 PB114401ZHE#10

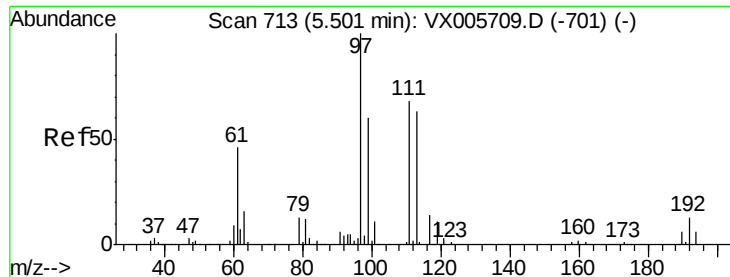
Tot Ion: 65 Resp: 83805
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

Tgt Ion: 114 Resp: 179068
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 42.8
 88 16.4 0.0 31.2

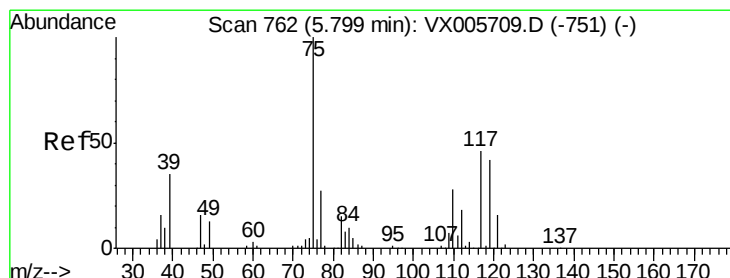
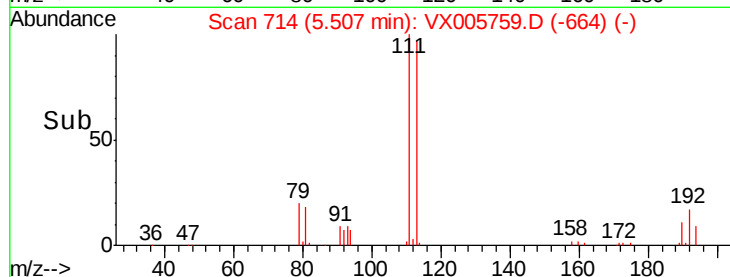
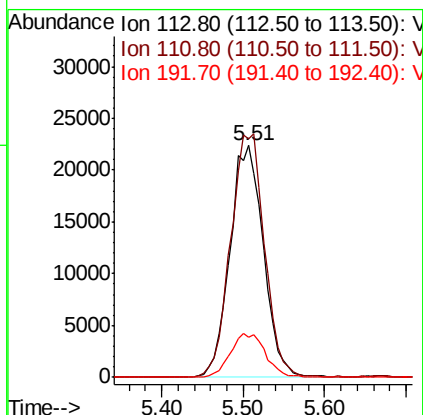
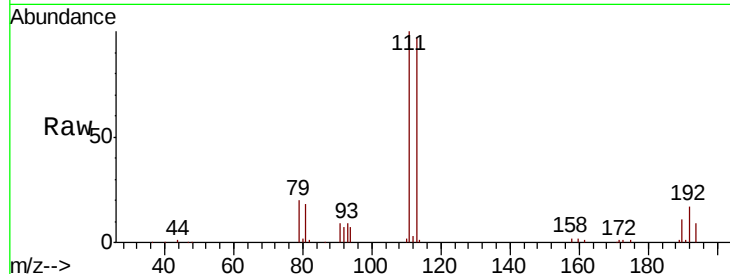




#35
 Dibromofluoromethane
 Concen: 51.300 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

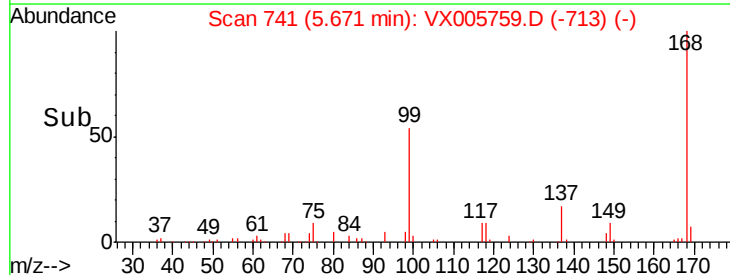
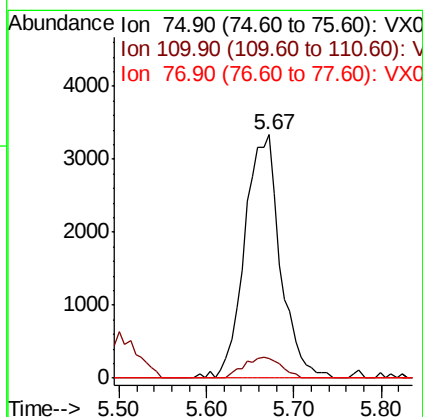
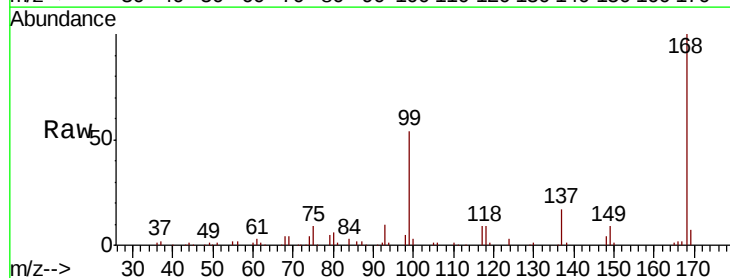
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 MSVOA_X
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 PB114401ZHE#10

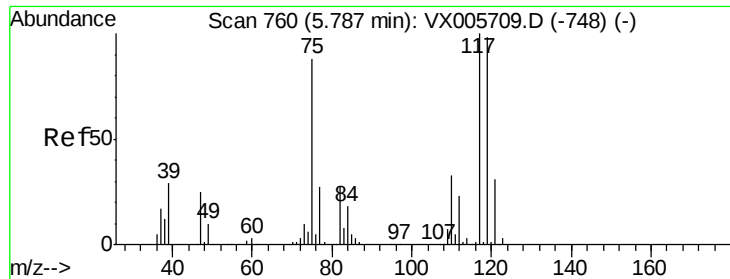
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.4	82.3	123.5
192	19.5	17.9	26.9



#36
 1,1-Dichloropropene
 Concen: 4.946 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.4	52.2#
77	0.0	25.8	38.6#





#38

Carbon Tetrachloride

Concen: 6.431 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#10

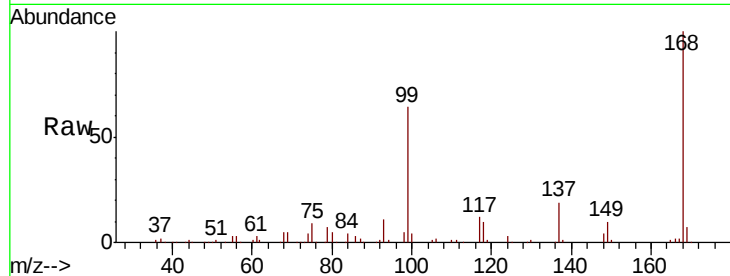
Tot Ion:117 Resp: 11084

Ion Ratio Lower Upper

117 100

119 8.2 78.1 117.1#

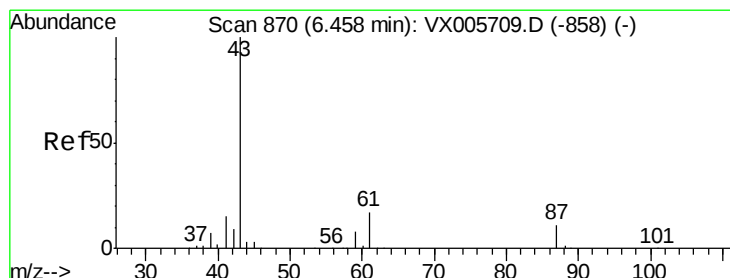
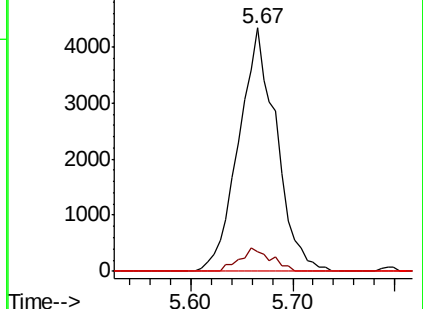
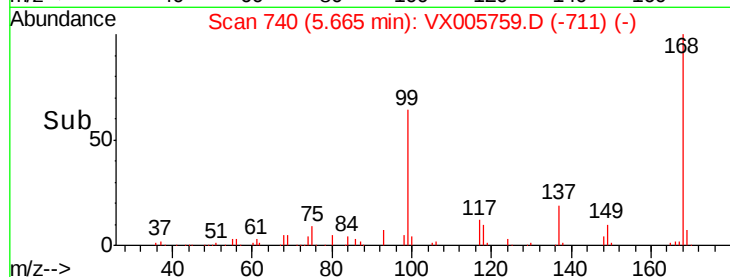
121 0.0 24.6 36.8#



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: 27.544 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

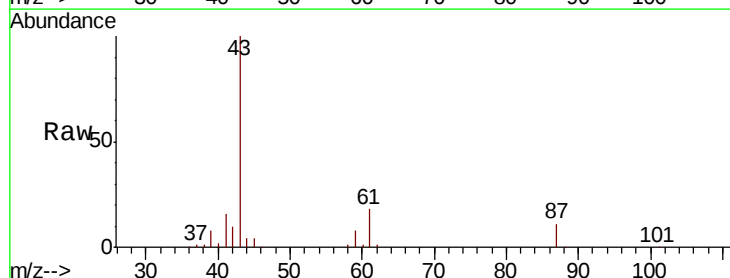
Tgt Ion: 43 Resp: 97304

Ion Ratio Lower Upper

43 100

61 19.0 14.6 22.0

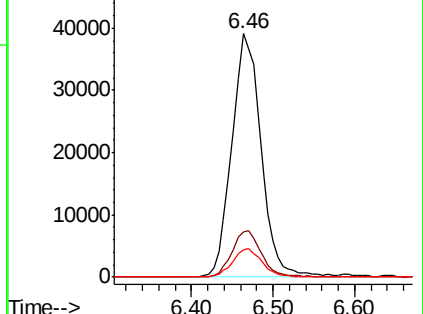
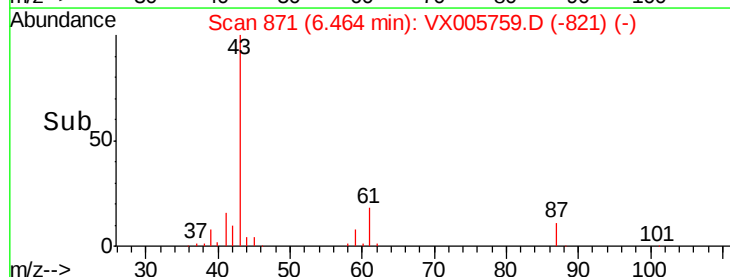
87 11.6 9.6 14.4

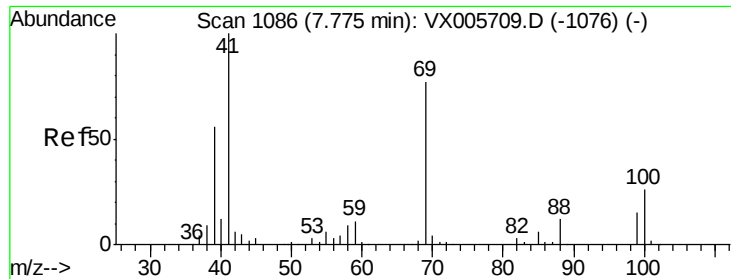


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 2.680 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#10

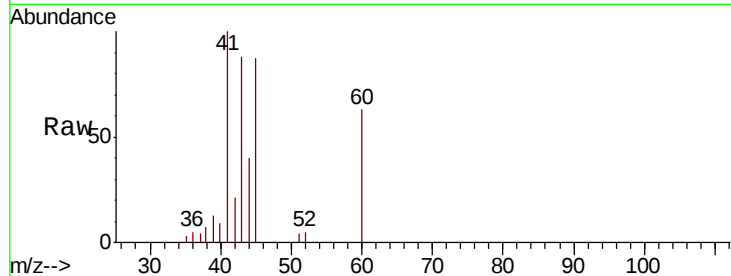
Tot Ion: 41 Resp: 4582

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

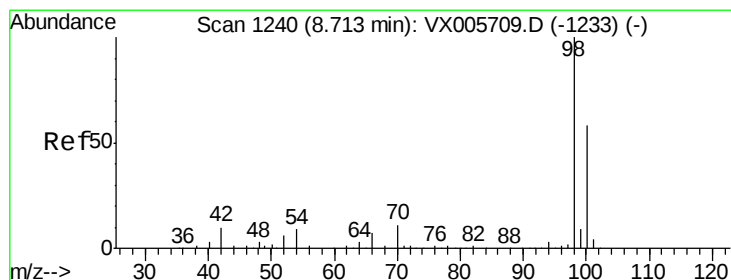
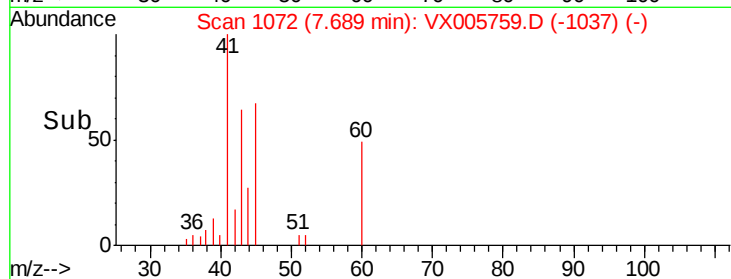
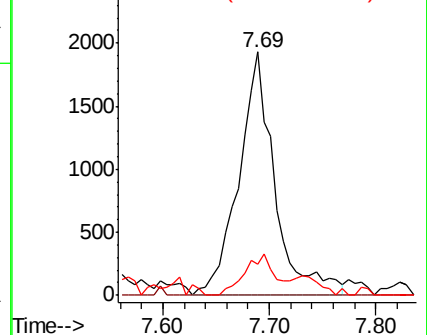
39 14.7 42.2 63.2#



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: 52.588 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005759.D

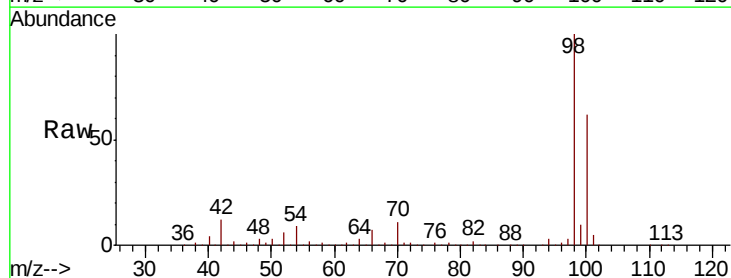
Acq: 02 Nov 2018 16:29

Tgt Ion: 98 Resp: 228689

Ion Ratio Lower Upper

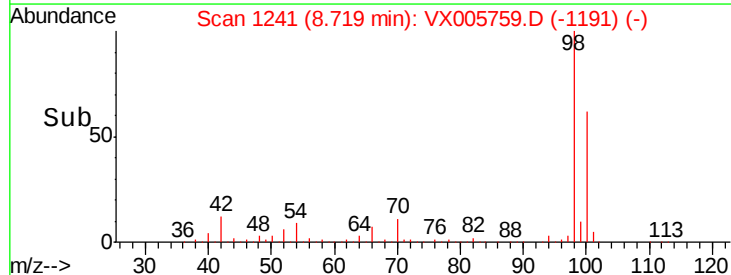
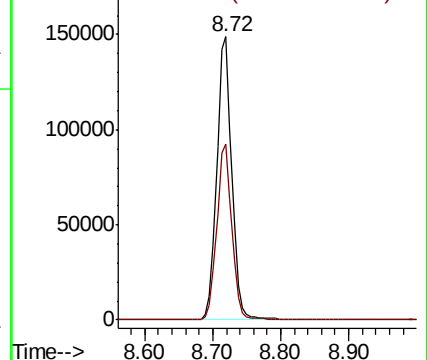
98 100

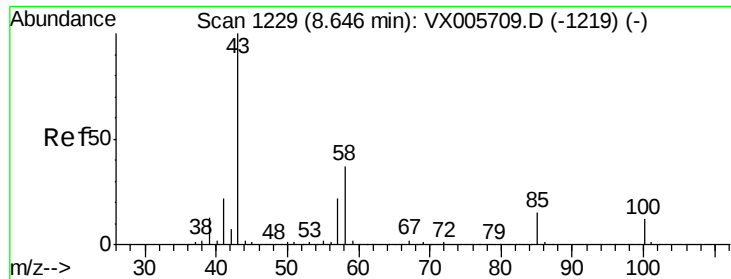
100 62.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.725 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

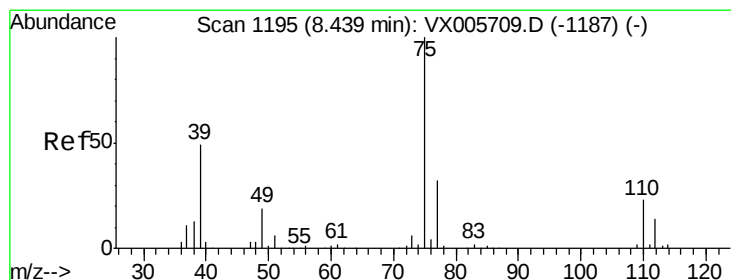
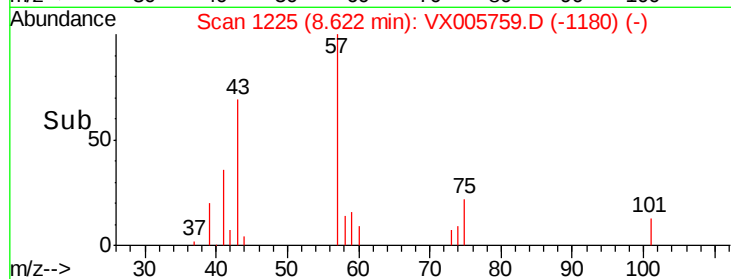
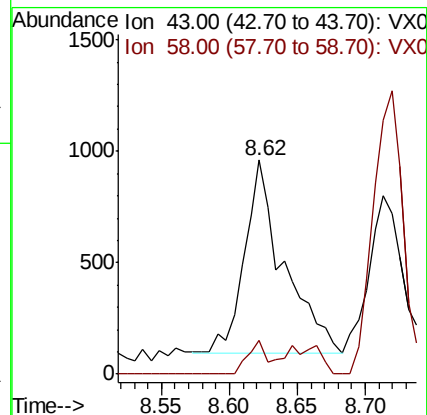
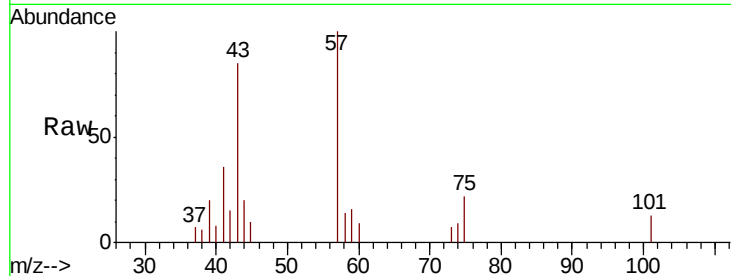
PB114401ZHE#10

Tot Ion: 43 Resp: 1746

Ion Ratio Lower Upper

43 100

58 9.0 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.246 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

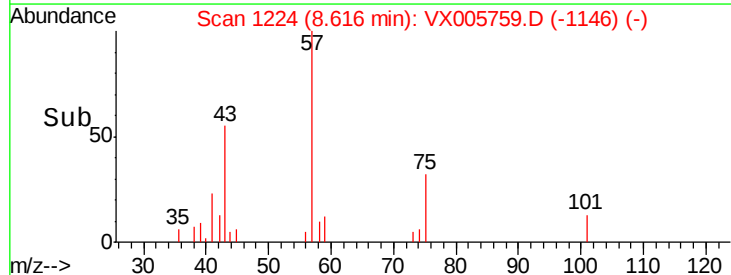
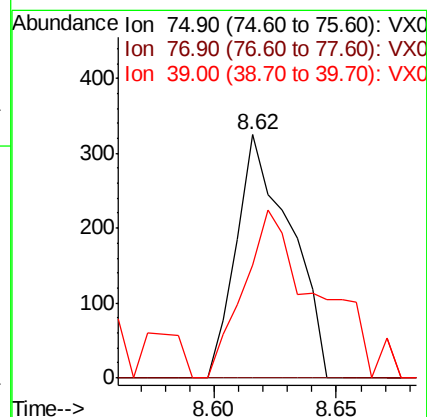
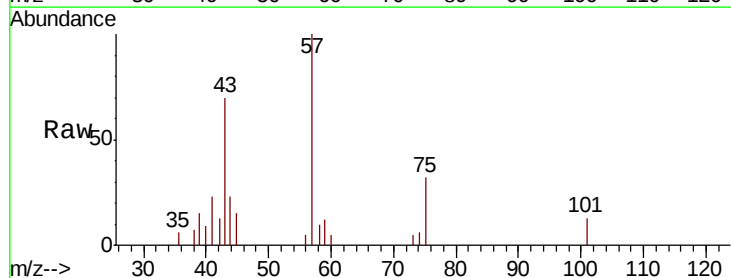
Tgt Ion: 75 Resp: 498

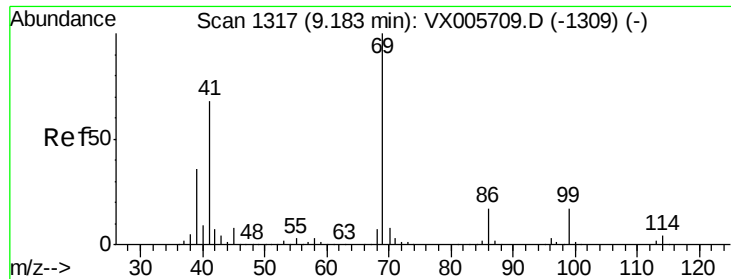
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 46.2 38.2 57.2





#56

Ethyl methacrylate

Concen: 2.504 ug/l

RT: 9.38 min Scan# 1349

Delta R.T. 0.20 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#10

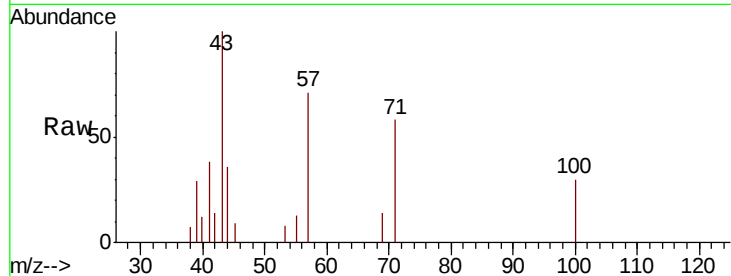
Tot Ion: 69 Resp: 80

Ion Ratio Lower Upper

69 100

41 0.0 57.0 85.6#

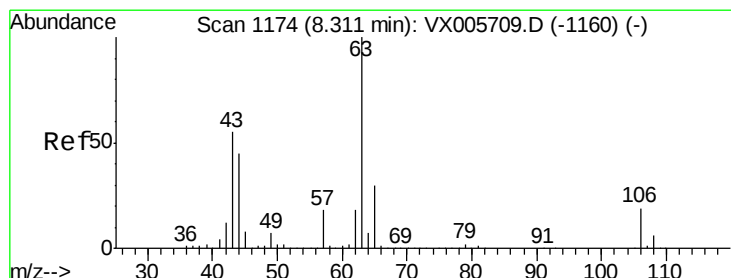
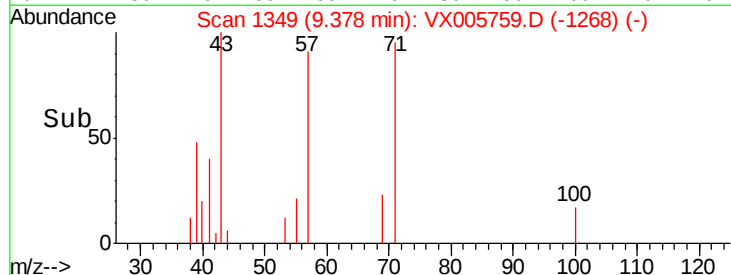
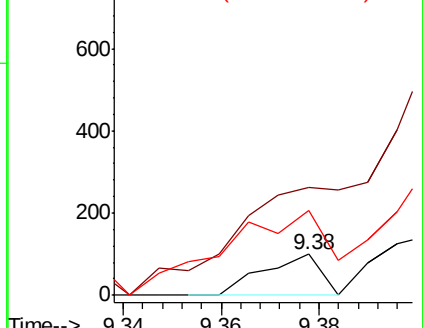
39 387.5 28.3 42.5#



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: 10.355 ug/l

RT: 8.37 min Scan# 1183

Delta R.T. 0.05 min

Lab File: VX005759.D

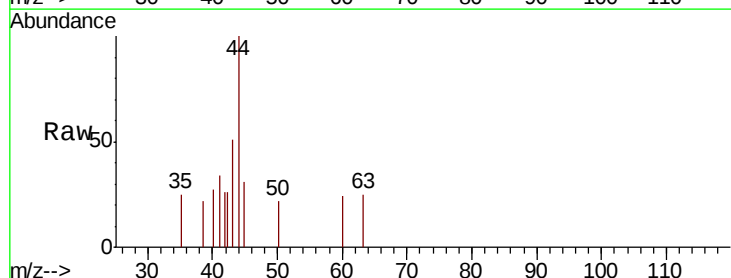
Acq: 02 Nov 2018 16:29

Tgt Ion: 63 Resp: 23

Ion Ratio Lower Upper

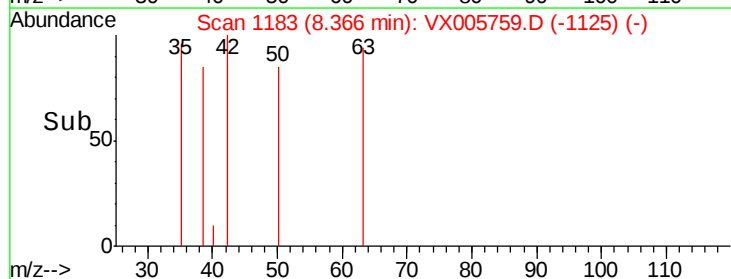
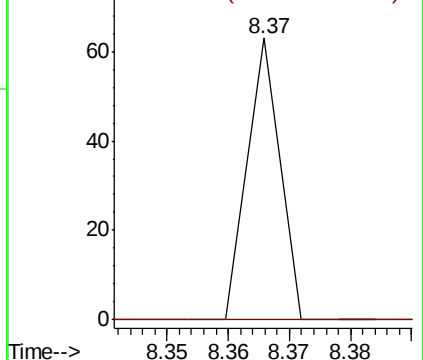
63 100

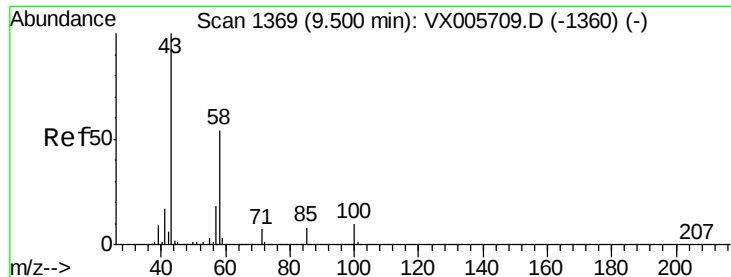
106 0.0 21.3 31.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

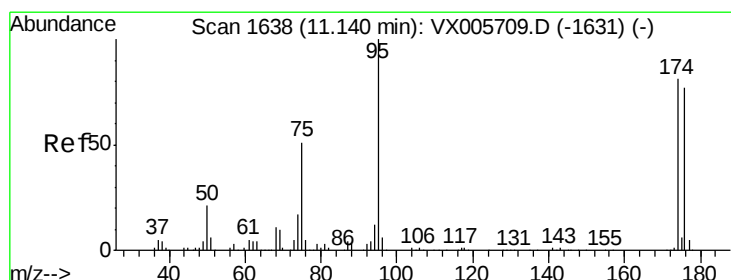
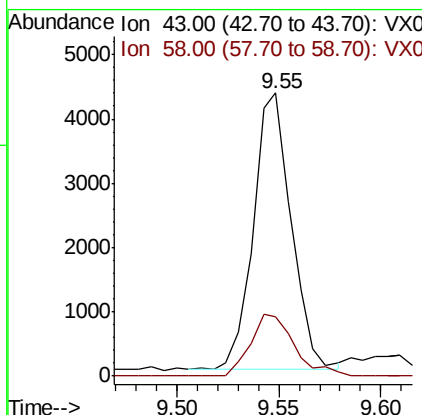
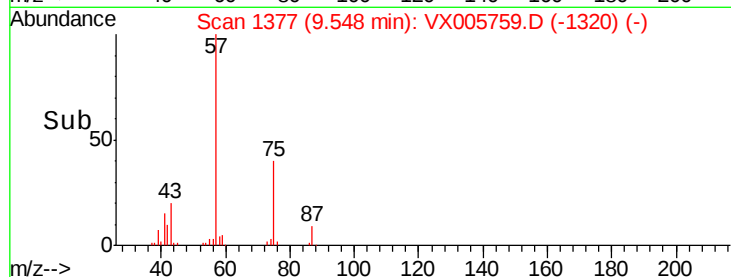
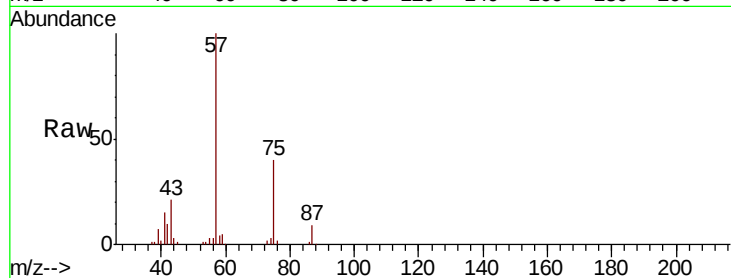




#59
2-Hexanone
Concen: 2.834 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

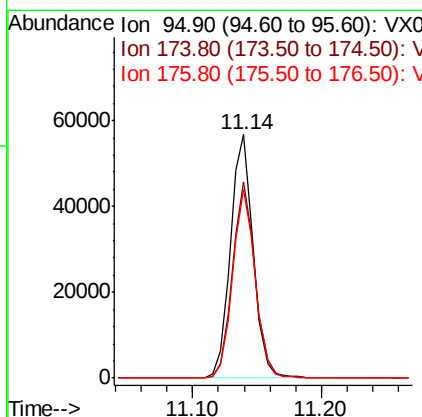
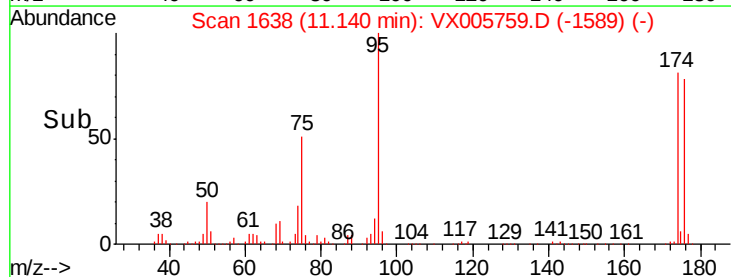
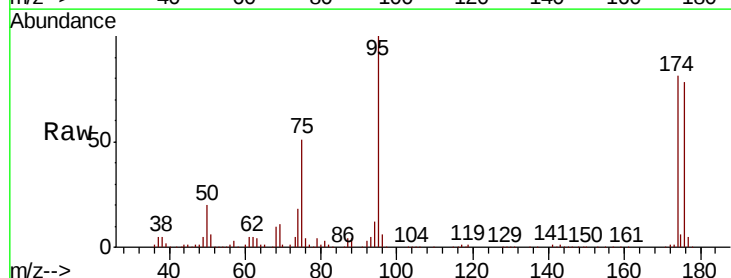
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#10

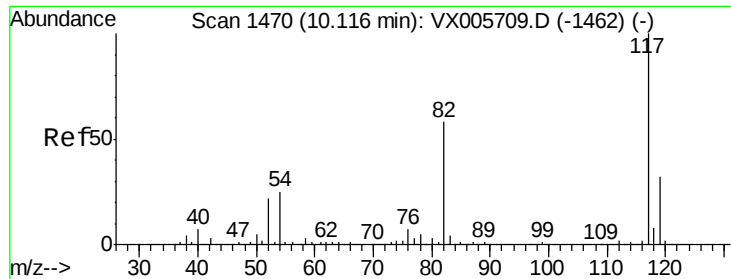
Tot Ion: 43 Resp: 5556
Ion Ratio Lower Upper
43 100
58 25.6 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 43.865 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

Tgt Ion: 95 Resp: 70402
Ion Ratio Lower Upper
95 100
174 80.3 0.0 184.4
176 77.0 0.0 177.4

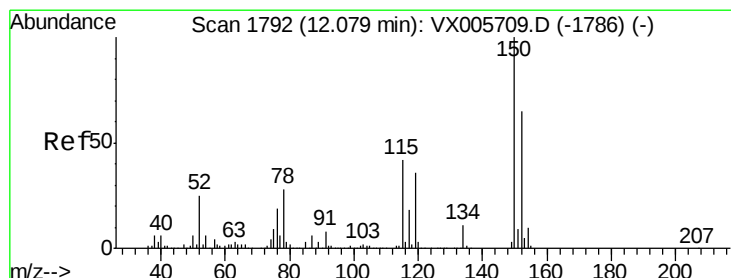
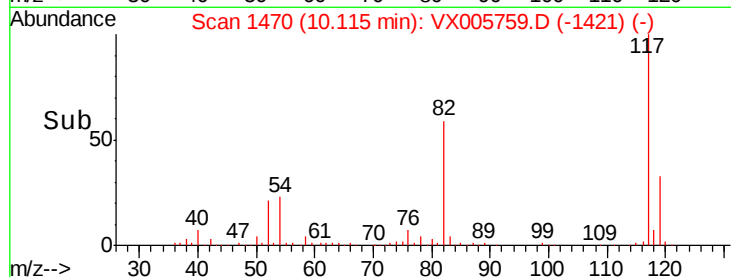
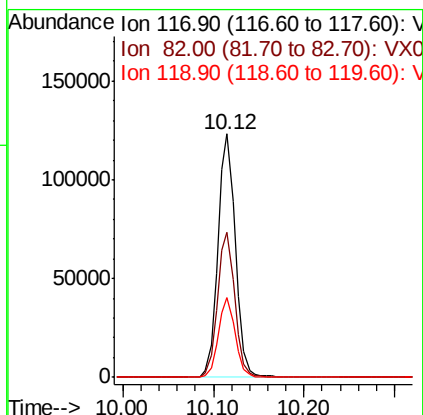
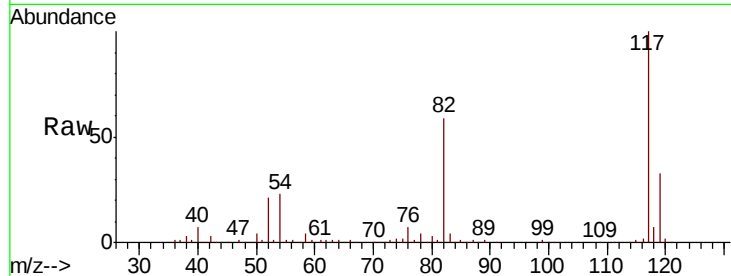




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

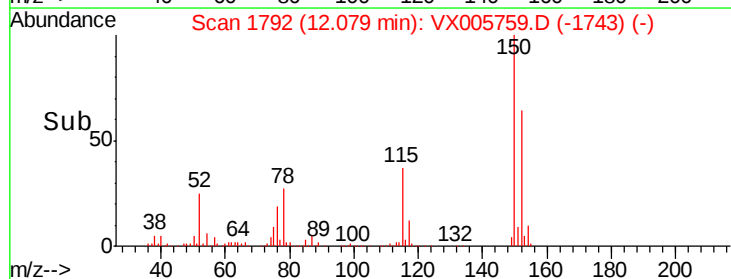
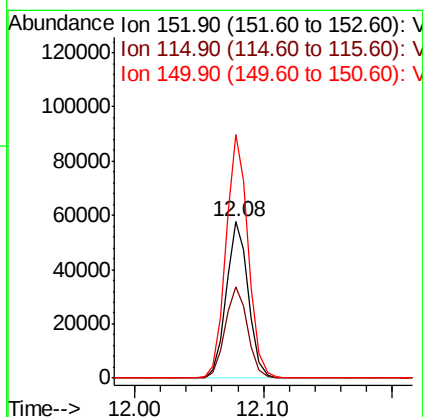
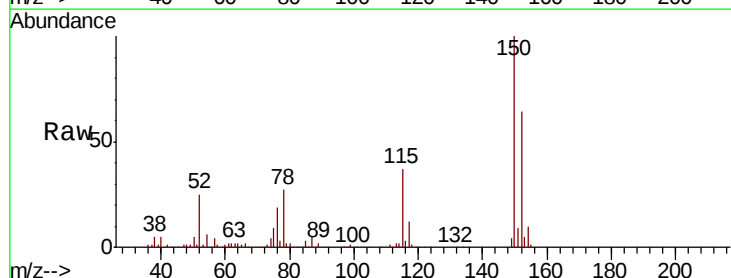
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#10

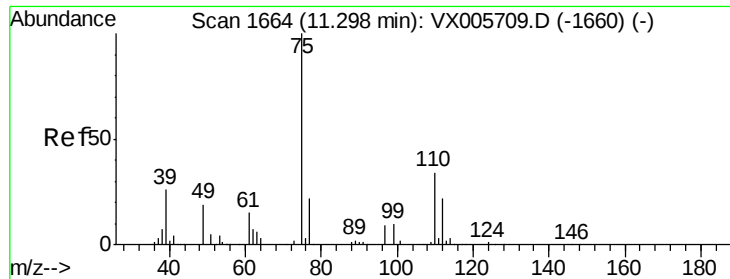
Tot Ion:117 Resp: 165936
Ion Ratio Lower Upper
117 100
82 59.4 44.1 66.1
119 32.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005759.D
Acq: 02 Nov 2018 16:29

Tgt Ion:152 Resp: 69262
Ion Ratio Lower Upper
152 100
115 59.4 39.4 118.1
150 156.8 0.0 346.4

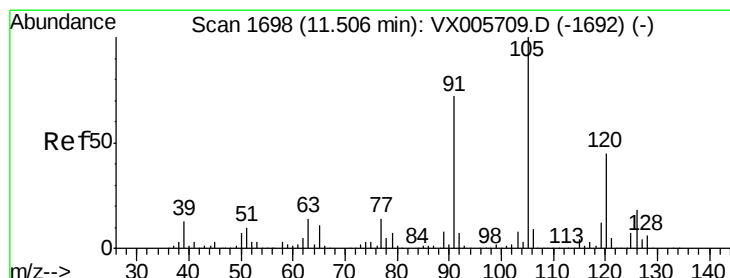
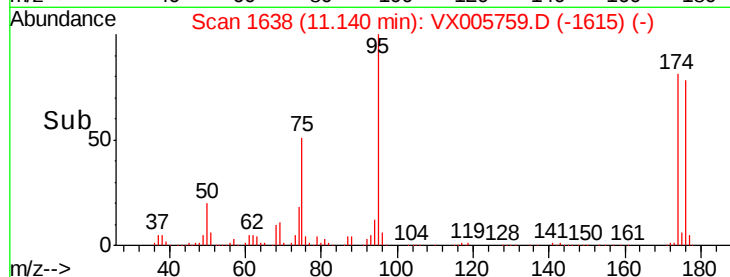
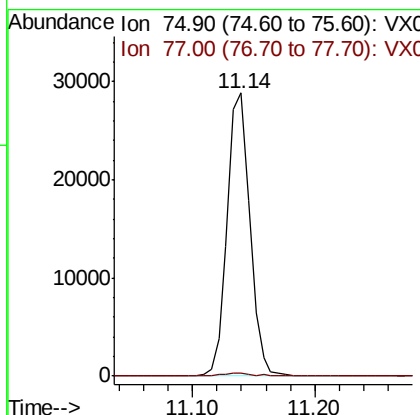
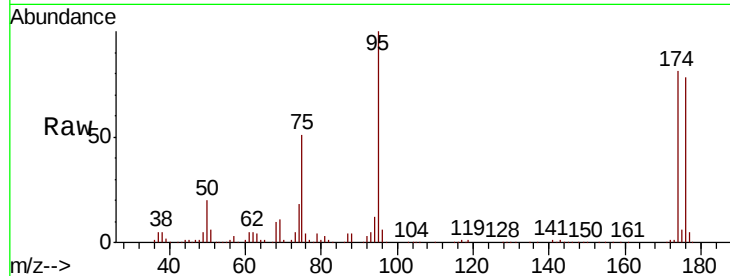




#76
 1,2,3-Trichloropropane
 Concen: 21.551 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

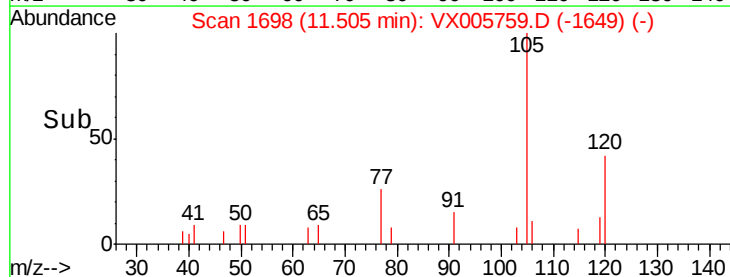
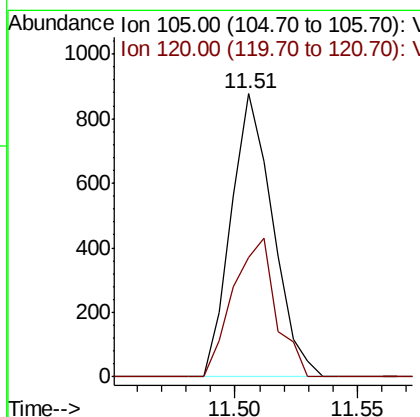
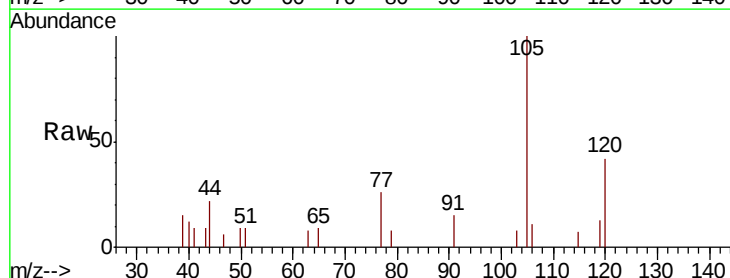
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#10

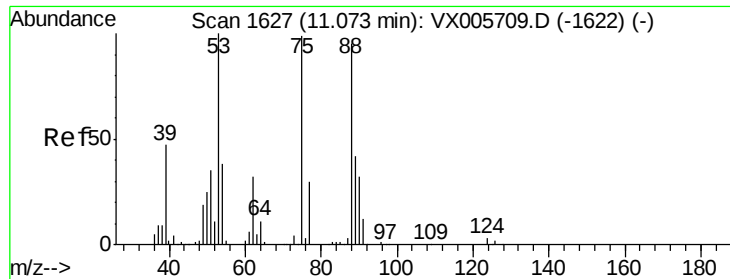
Tot Ion: 75 Resp: 37176
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.5 61.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.268 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005759.D
 Acq: 02 Nov 2018 16:29

Tgt Ion: 105 Resp: 1040
 Ion Ratio Lower Upper
 105 100
 120 50.9 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 69.629 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005759.D

Acq: 02 Nov 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#10

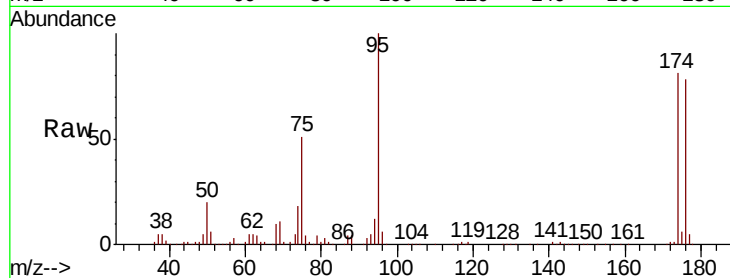
Tot Ion: 75 Resp: 37176

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.2#

89 0.0 39.8 59.8#



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

