

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004451.D
 Acq On : 10 Sep 2018 16:21
 Operator : JC/MD
 Sample : PB112704ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#08

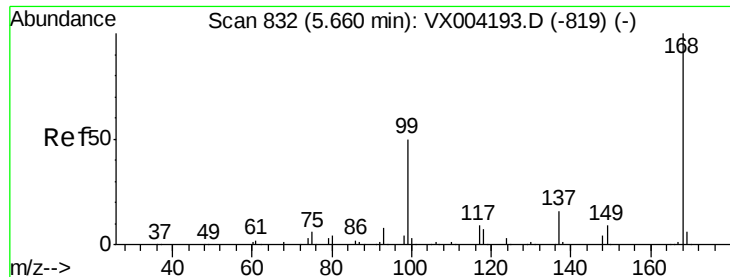
Quant Time: Sep 11 01:21:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	474897	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	442787	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	251200	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	205379	54.42	ug/l	0.00
Spiked Amount						
			Recovery	=	108.84%	
35) Dibromofluoromethane	5.50	113	182388	51.63	ug/l	0.00
Spiked Amount						
			Recovery	=	103.26%	
50) Toluene-d8	8.71	98	682375	51.17	ug/l	0.00
Spiked Amount						
			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	11.14	95	237311	47.69	ug/l	0.00
Spiked Amount						
			Recovery	=	95.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	554	0.44	ug/l	95
5) Bromomethane	1.65	94	533	Below Cal	#	39
6) Chloroethane	1.69	64	227	1.04	ug/l	# 44
10) Methyl Iodide	2.52	142	358	4.35	ug/l	# 88
11) Tert butyl alcohol	3.07	59	445	0.55	ug/l	98
13) Acrolein	2.31	56	257	1.33	ug/l	# 16
16) Acetone	2.45	43	26636	9.52	ug/l	97
17) Carbon Disulfide	2.57	76	682	0.88	ug/l	# 79
18) Methyl Acetate	2.78	43	11186	2.00	ug/l	97
20) Methylene Chloride	2.85	84	17856	4.92	ug/l	92
25) 2-Butanone	4.70	43	4022	Below Cal		96
29) Tetrahydrofuran	5.17	42	1815	1.12	ug/l	# 91
30) Chloroform	5.20	83	3458	0.56	ug/l	98
31) Cyclohexane	5.67	56	5028	0.95	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18894	3.54	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	24836	4.95	ug/l	# 15
41) Methacrylonitrile	5.16	41	1115	0.37	ug/l	# 37
43) Isopropyl Acetate	6.46	43	226839	28.11	ug/l	100
48) Methyl methacrylate	7.68	41	9481	2.20	ug/l	# 23
51) 4-Methyl-2-Pentanone	8.62	43	5024	0.86	ug/l	# 34
54) cis-1,3-Dichloropropene	8.62	75	1821	0.31	ug/l	# 72
59) 2-Hexanone	9.55	43	15091	3.37	ug/l	# 57
76) 1,2,3-Trichloropropane	11.14	75	111076	21.74	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	3378	0.25	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.14	75	111076	70.54	ug/l	# 10
92) 1,2-Dibromo-3-Chloropropan	12.97	75	217	0.21	ug/l	# 1
94) Hexachlorobutadiene	13.78	225	110	Below Cal	#	37

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004451.D

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Instrument :

MSVOA_X

ClientSampleId :

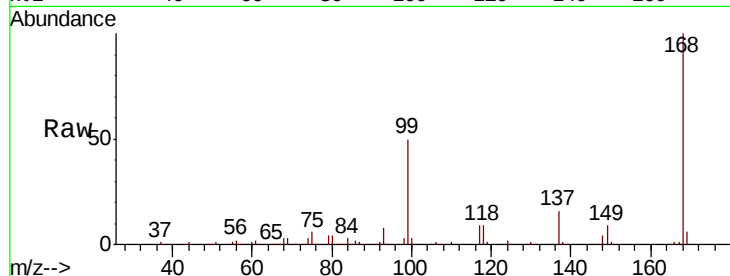
PB112704ZHE#08

Tot Ion:168 Resp: 289549

Ion Ratio Lower Upper

168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

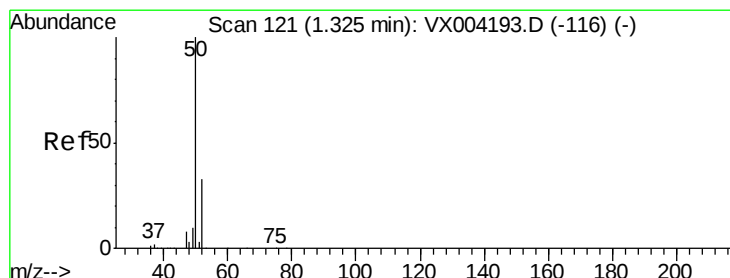
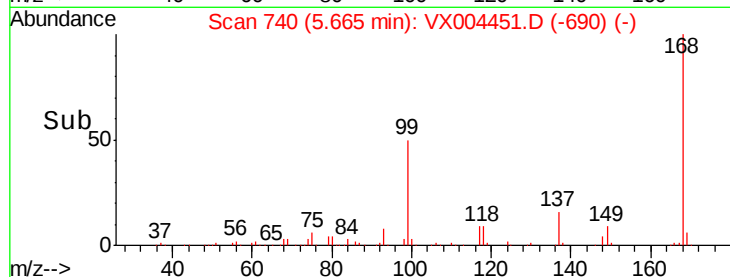
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004451.D

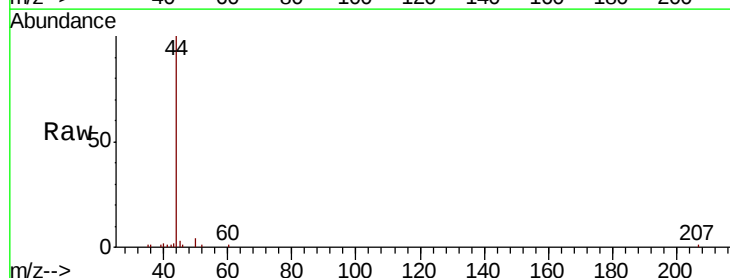
Acq: 10 Sep 2018 16:21

Tgt Ion: 50 Resp: 554

Ion Ratio Lower Upper

50 100

52 29.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

400

300

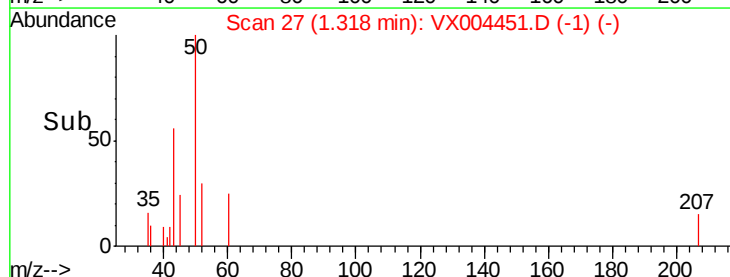
200

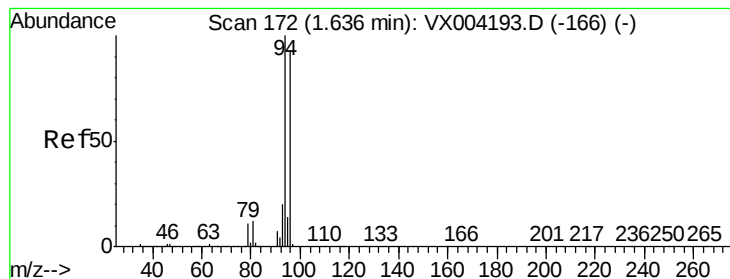
100

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

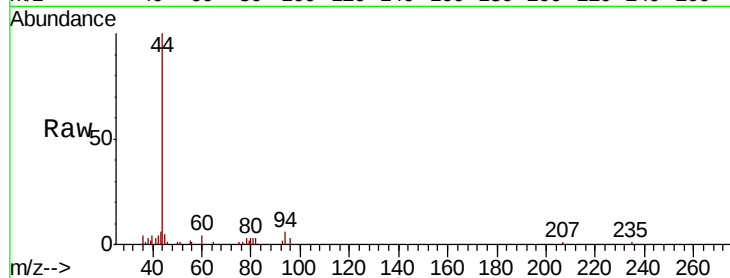
PB112704ZHE#08

Tot Ion: 94 Resp: 533

Ion Ratio Lower Upper

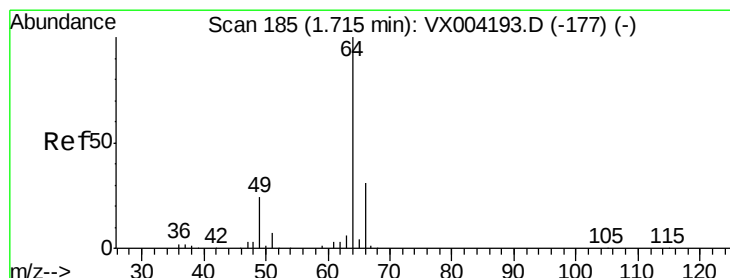
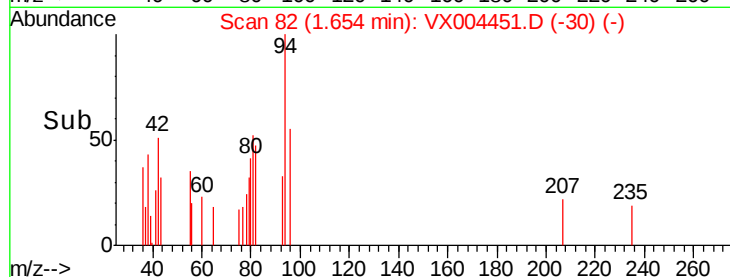
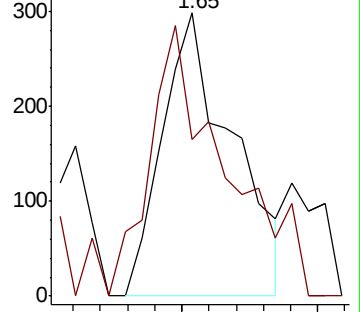
94 100

96 34.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.04 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX004451.D

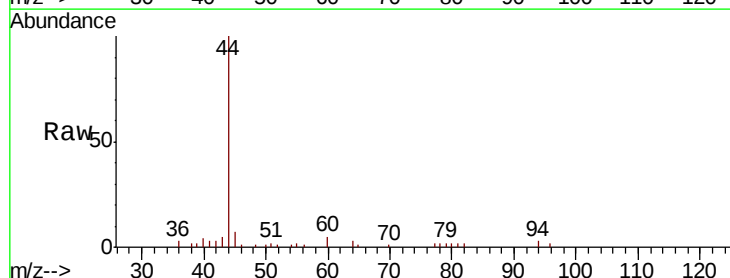
Acq: 10 Sep 2018 16:21

Tgt Ion: 64 Resp: 227

Ion Ratio Lower Upper

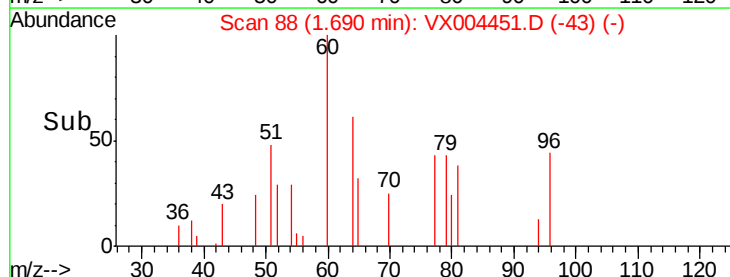
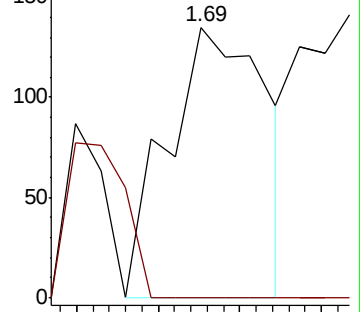
64 100

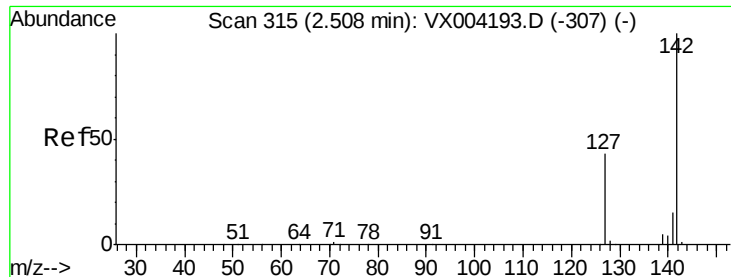
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

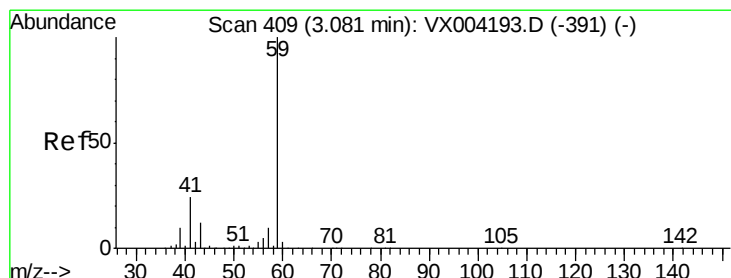
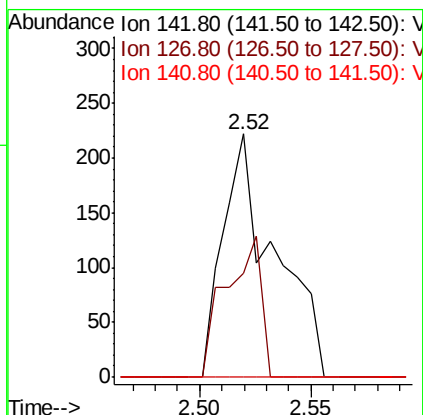
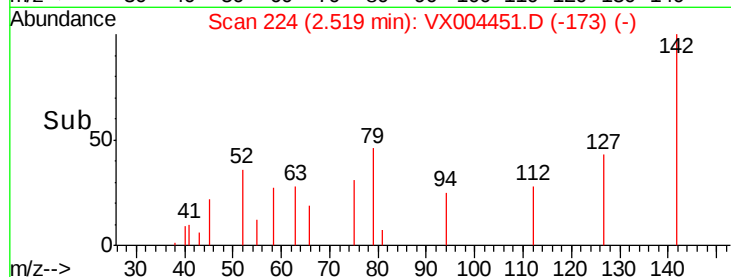
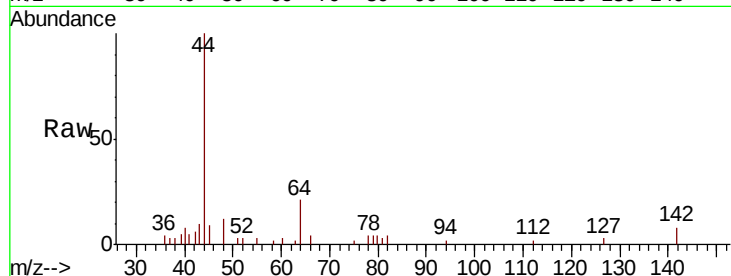




#10
Methvl Iodide
Concen: 4.35 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

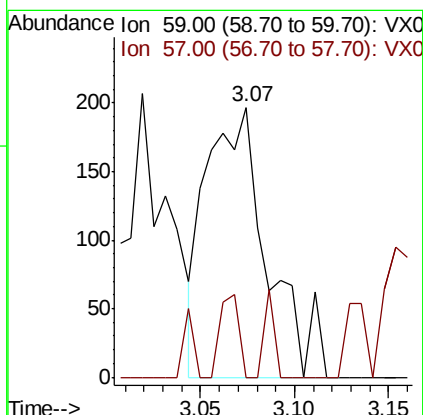
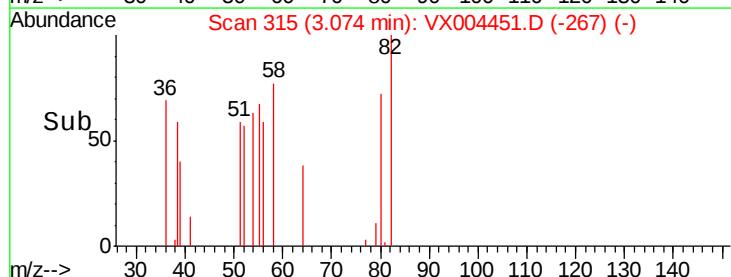
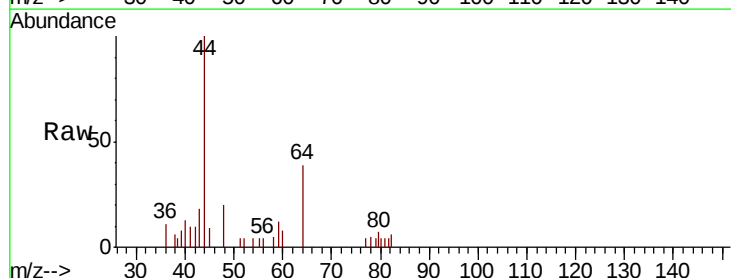
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

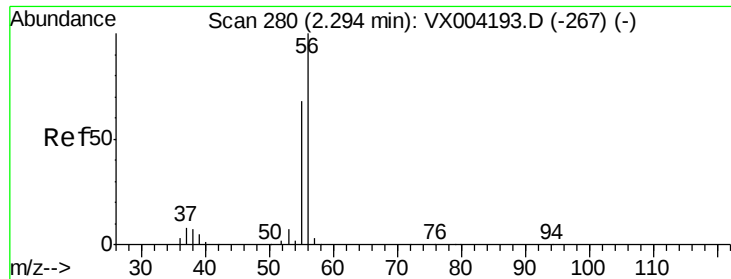
Tot Ion:142 Resp: 358
Ion Ratio Lower Upper
142 100
127 39.7 33.8 50.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.55 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 59 Resp: 445
Ion Ratio Lower Upper
59 100
57 9.4 8.2 12.4

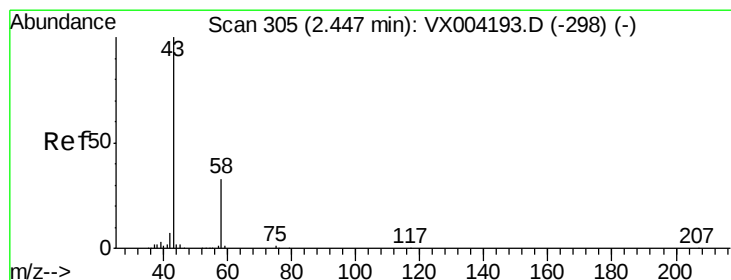
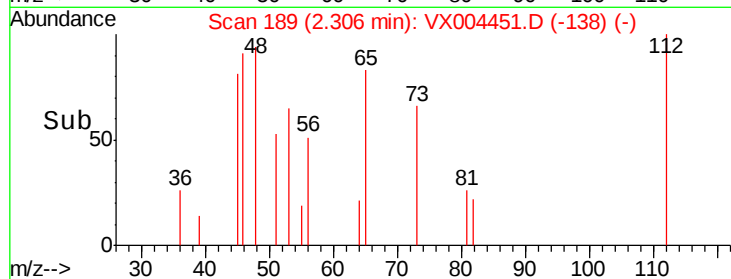
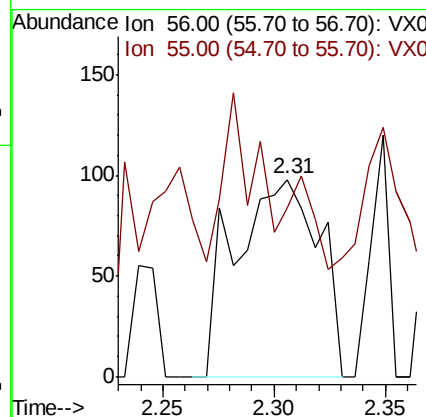
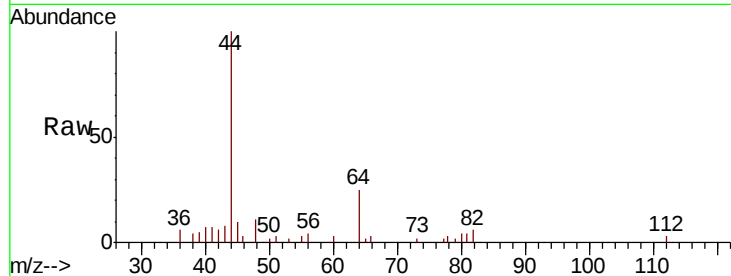




#13
Acrolein
Concen: 1.33 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

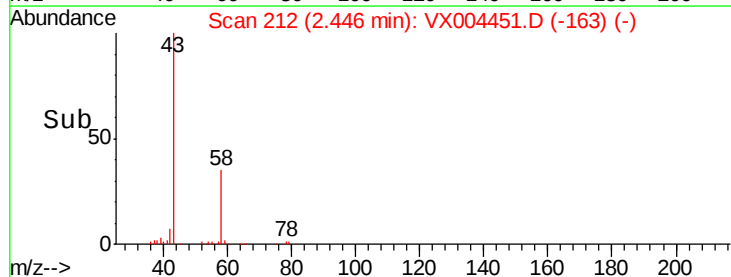
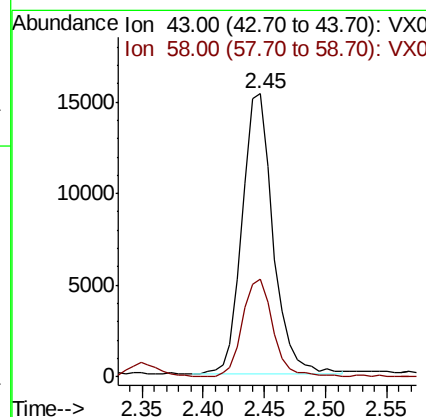
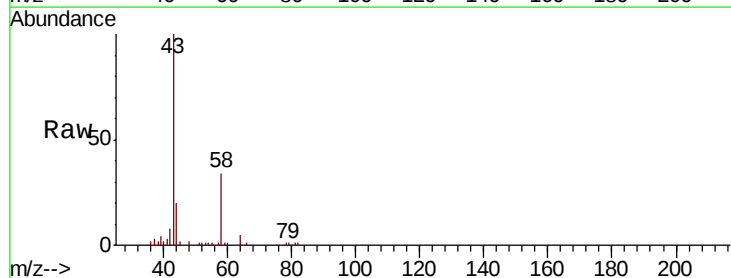
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

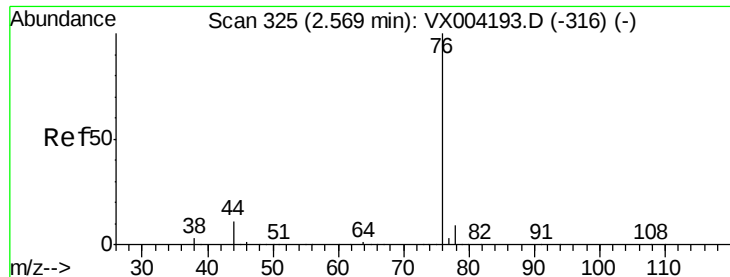
Tot Ion: 56 Resp: 257
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#



#16
Acetone
Concen: 9.52 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 43 Resp: 26636
Ion Ratio Lower Upper
43 100
58 34.7 26.2 39.4

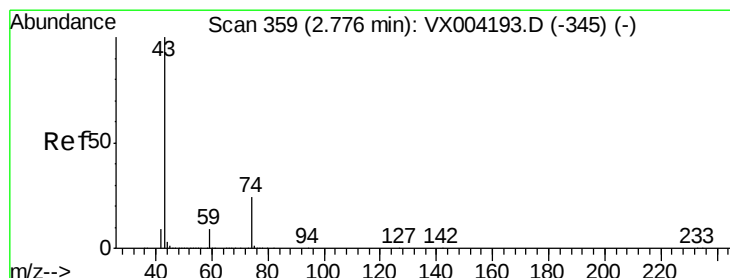
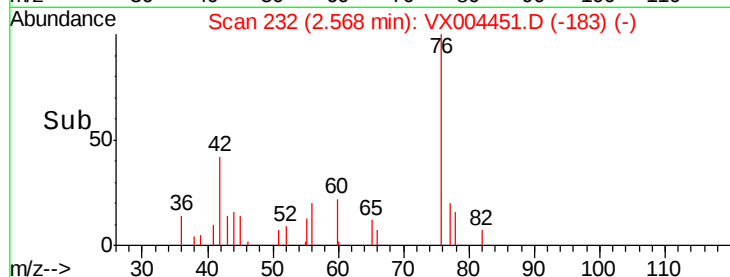
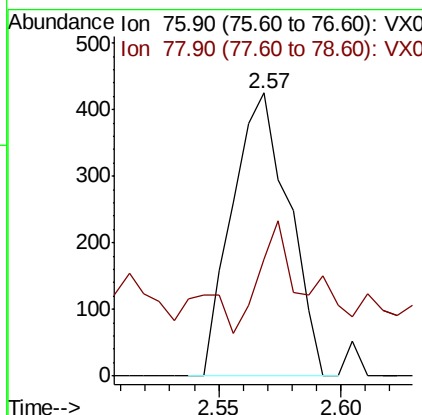
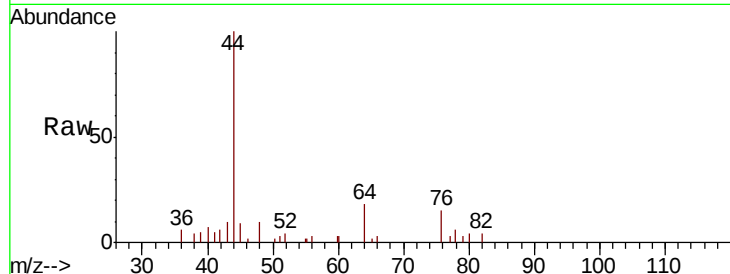




#17
Carbon Disulfide
Concen: 0.88 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

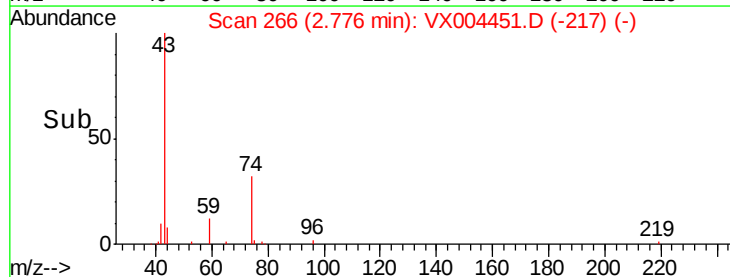
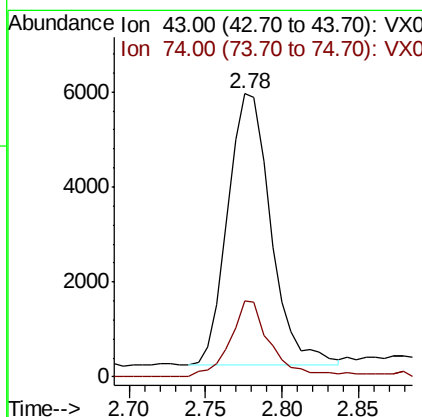
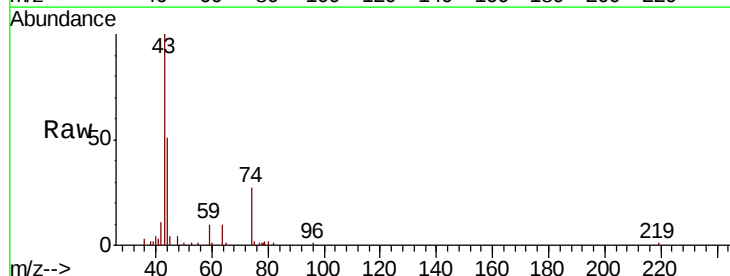
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

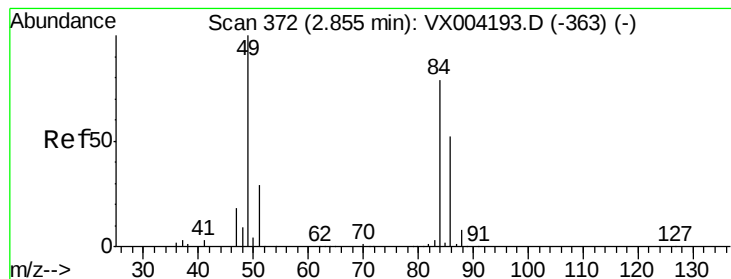
Tot Ion: 76 Resp: 682
Ion Ratio Lower Upper
76 100
78 16.5 7.0 10.6#



#18
Methyl Acetate
Concen: 2.00 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 43 Resp: 11186
Ion Ratio Lower Upper
43 100
74 25.9 19.4 29.2





#20

Methvlene Chloride

Concen: 4.92 ua/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#08

Tot Ion: 84 Resp: 17856

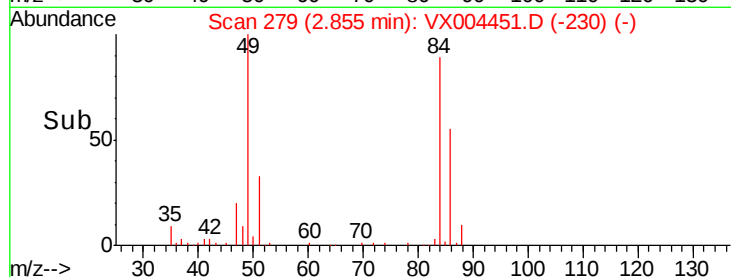
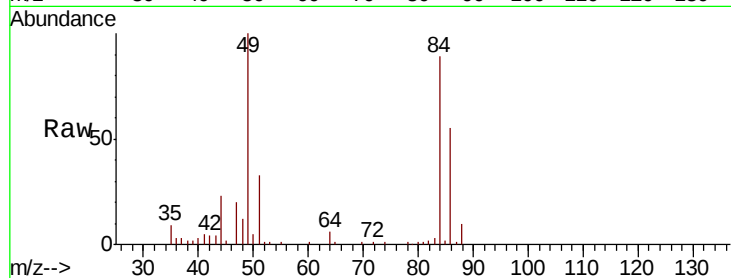
Ion Ratio Lower Upper

84 100

49 112.6 101.2 151.8

51 37.4 29.5 44.3

86 61.9 52.3 78.5

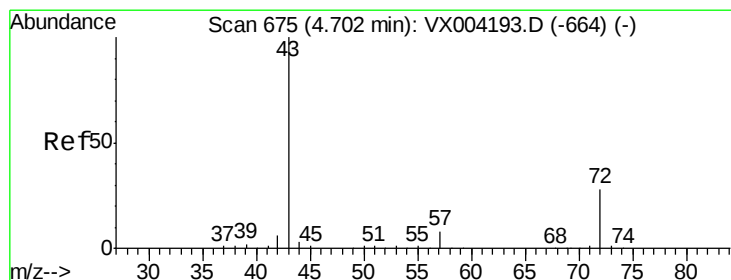
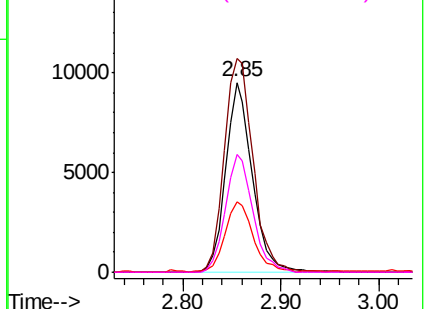


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004451.D

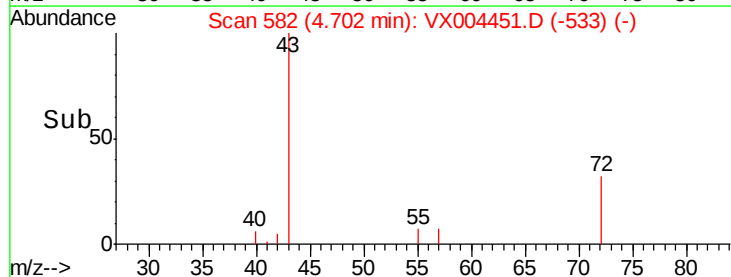
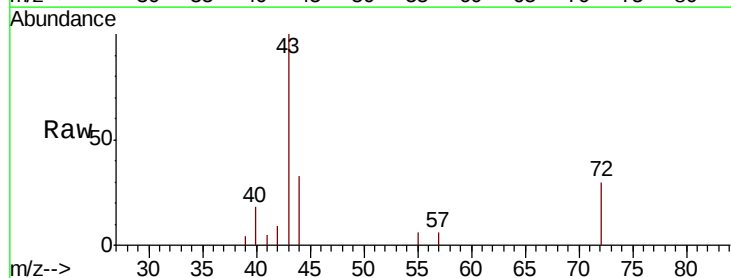
Acq: 10 Sep 2018 16:21

Tgt Ion: 43 Resp: 4022

Ion Ratio Lower Upper

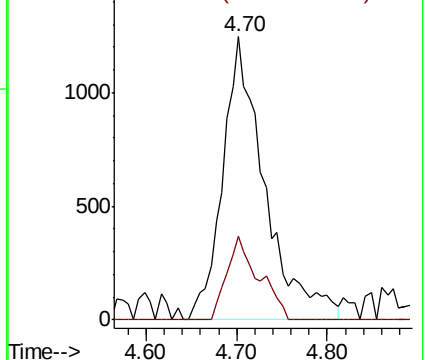
43 100

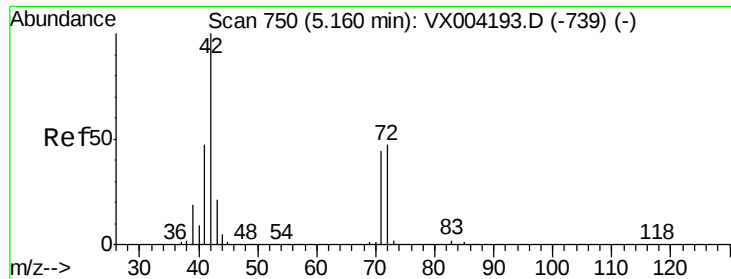
72 29.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

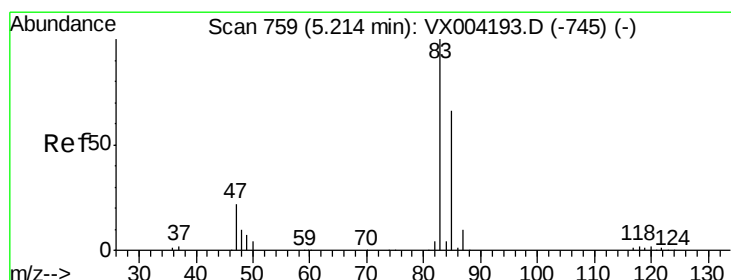
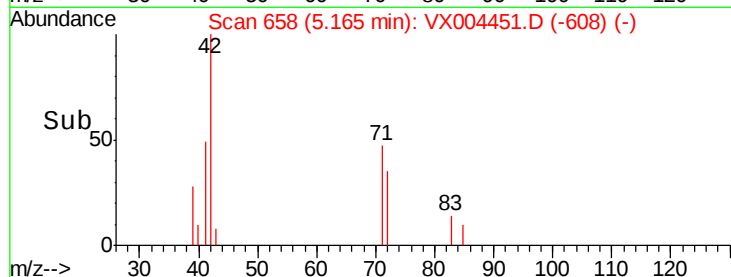
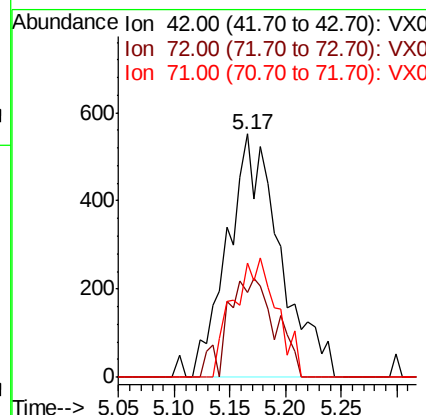
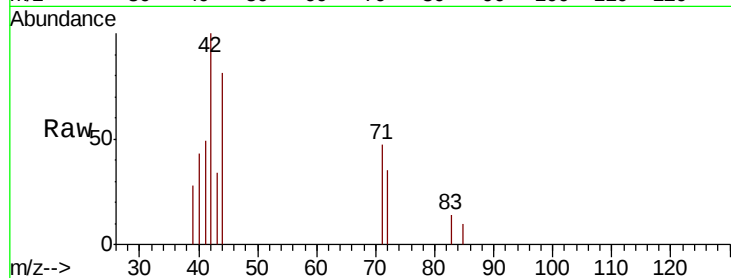




#29
Tetrahydrofuran
Concen: 1.12 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

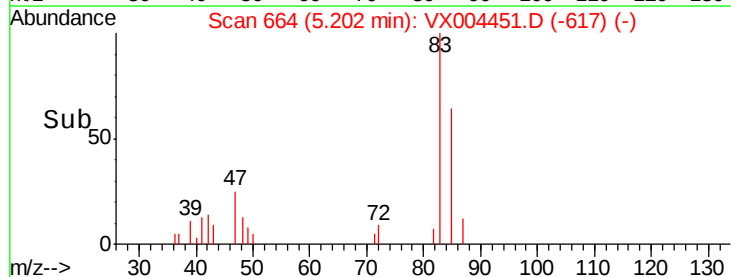
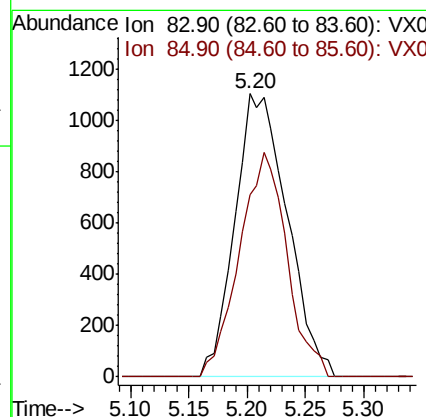
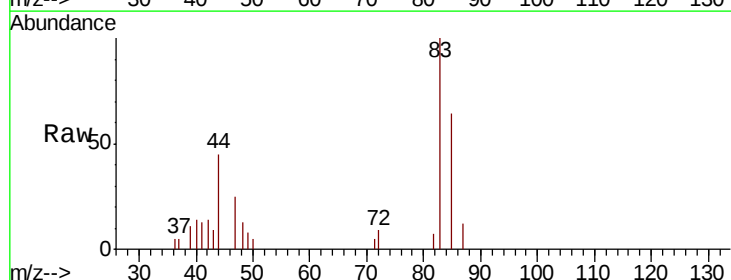
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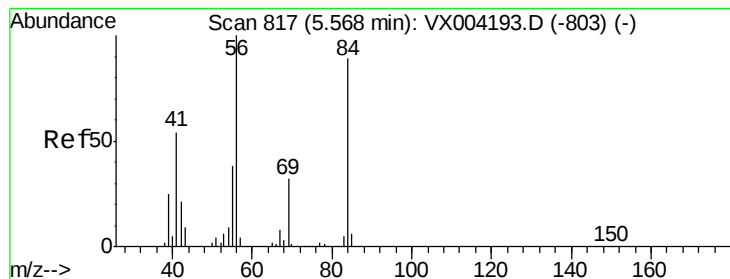
Tot Ion: 42 Resp: 1815
Ion Ratio Lower Upper
42 100
72 36.9 37.4 56.0#
71 40.7 34.5 51.7



#30
Chloroform
Concen: 0.56 ug/l
RT: 5.20 min Scan# 664
Delta R.T. -0.01 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 83 Resp: 3458
Ion Ratio Lower Upper
83 100
85 64.4 52.6 79.0





#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#08

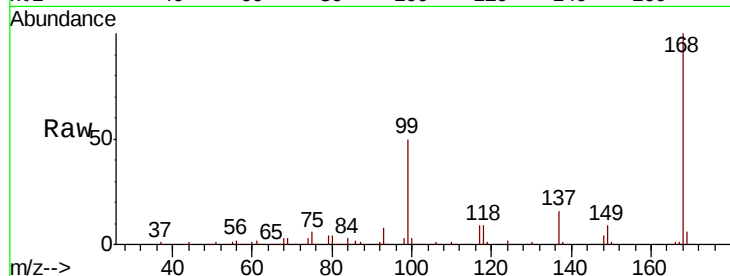
Tot Ion: 56 Resp: 5028

Ion Ratio Lower Upper

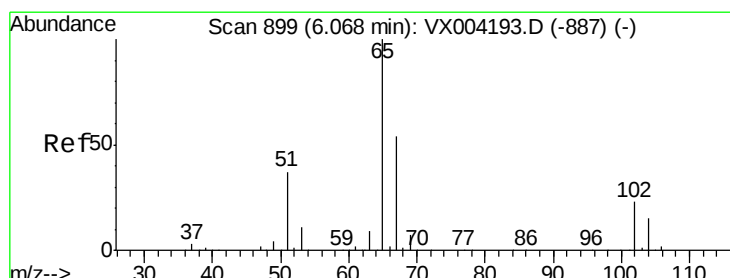
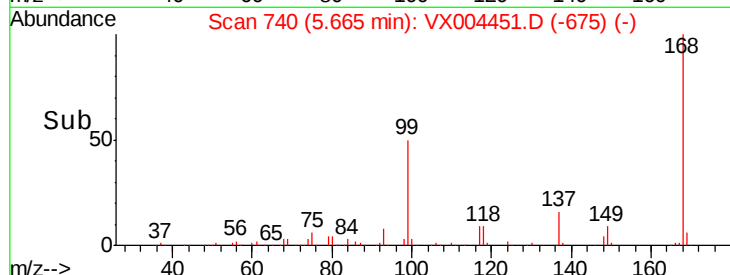
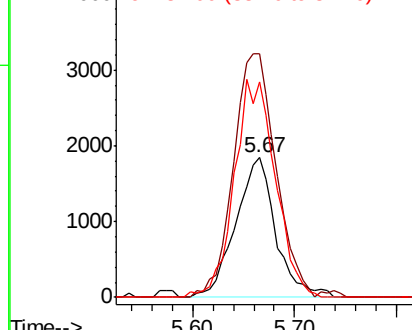
56 100

69 174.1 25.4 38.2#

84 153.8 71.4 107.2#



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



#33

1,2-Dichloroethane-d4

Concen: 54.42 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004451.D

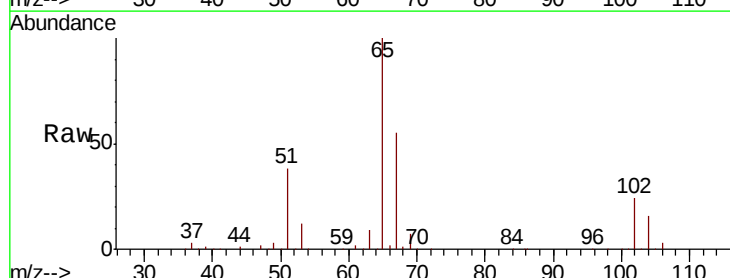
Acq: 10 Sep 2018 16:21

Tgt Ion: 65 Resp: 205379

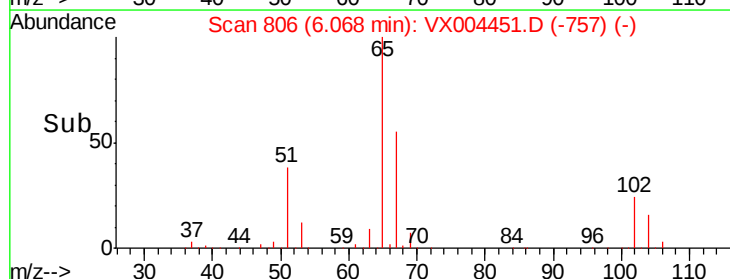
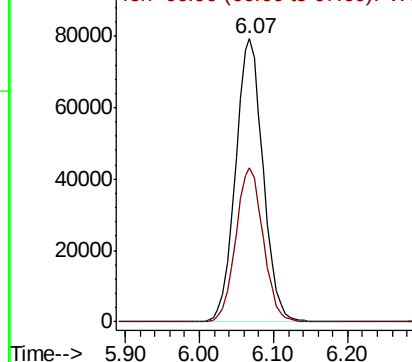
Ion Ratio Lower Upper

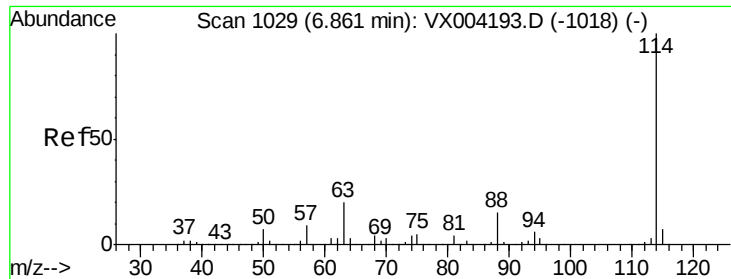
65 100

67 54.3 0.0 106.8



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

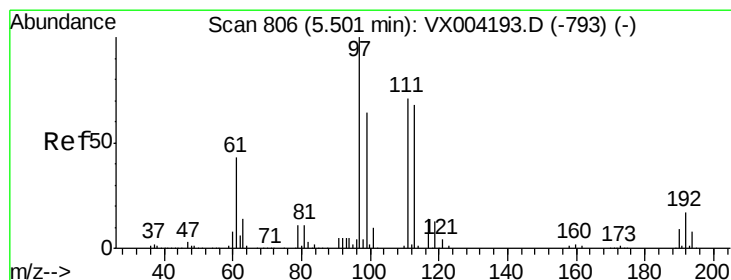
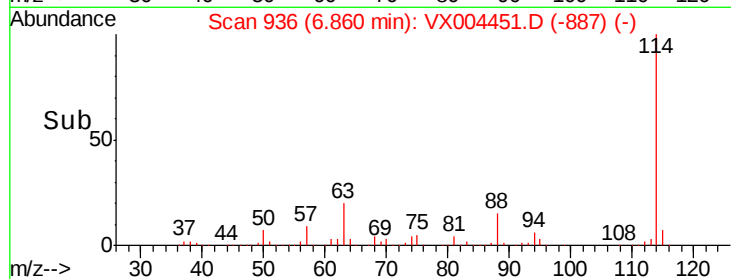
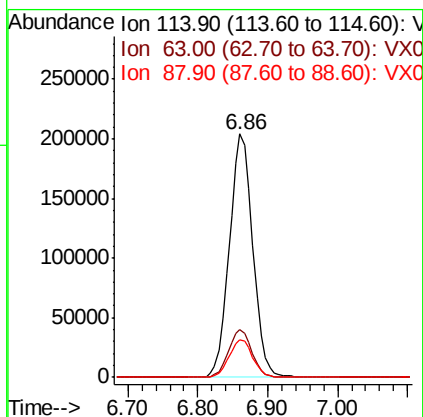
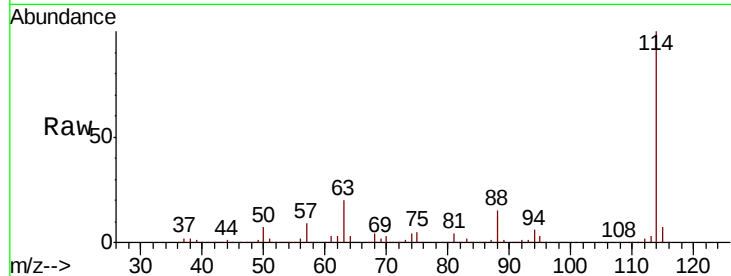




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004451.D
 Acq: 10 Sep 2018 16:21

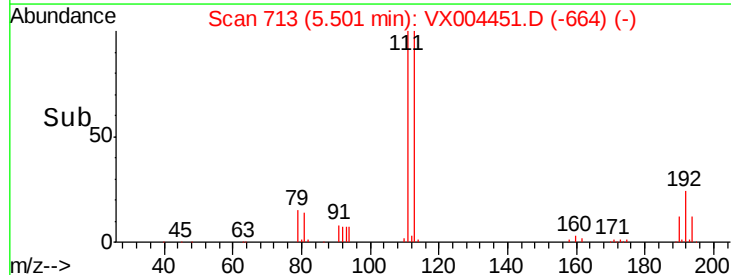
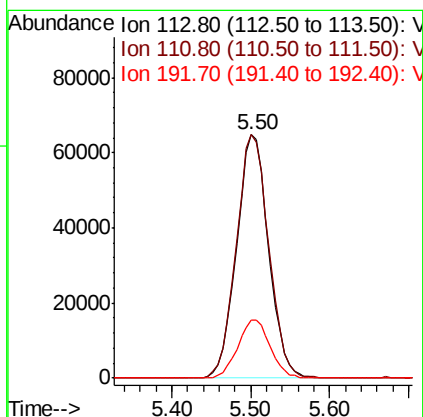
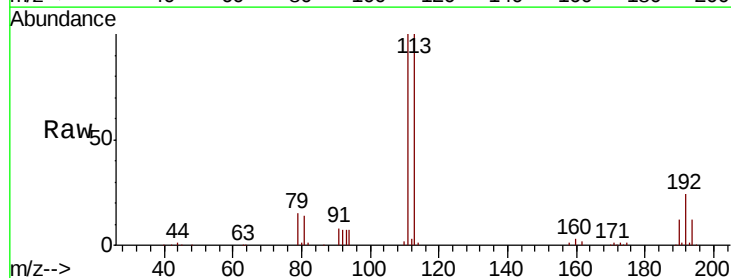
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#08

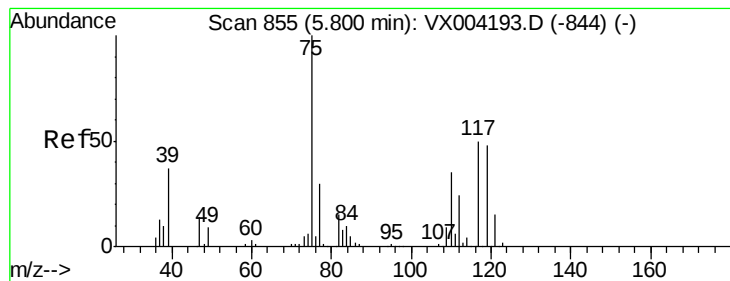
Tot Ion:114 Resp: 474897
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.4 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 51.63 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004451.D
 Acq: 10 Sep 2018 16:21

Tgt Ion:113 Resp: 182388
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.4 123.6
 192 24.3 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.54 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#08

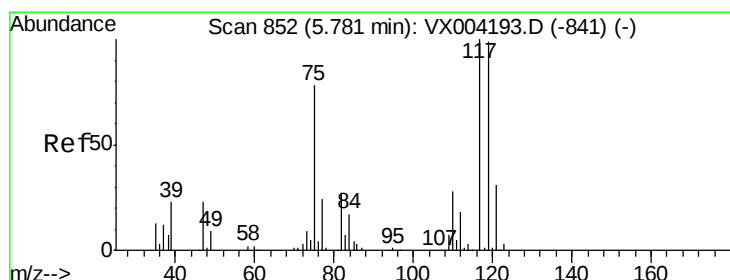
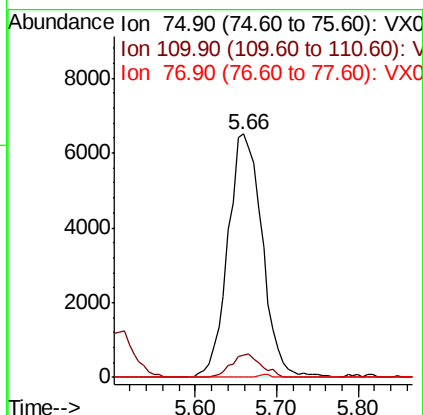
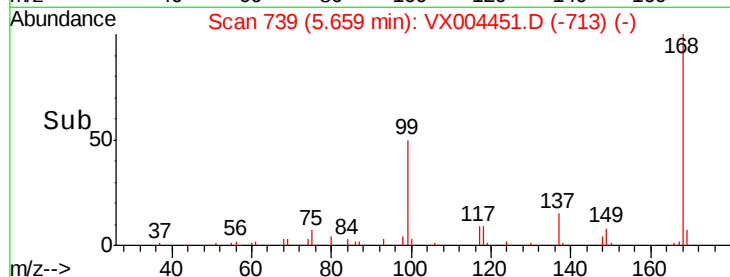
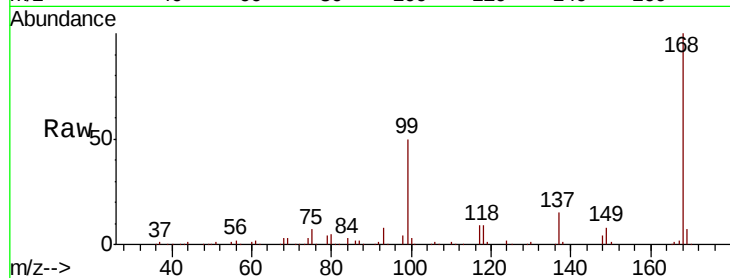
Tot Ion: 75 Resp: 18894

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 4.95 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

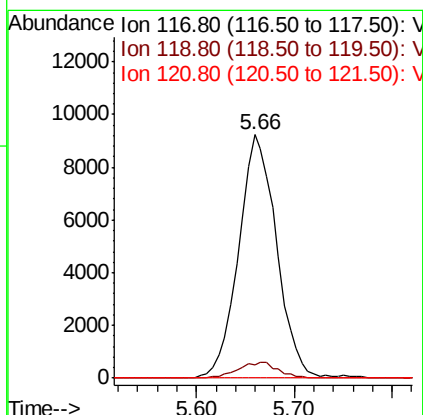
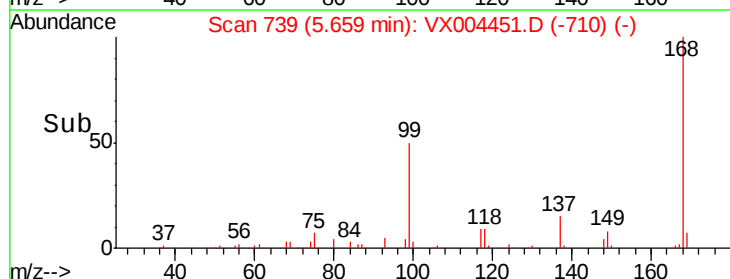
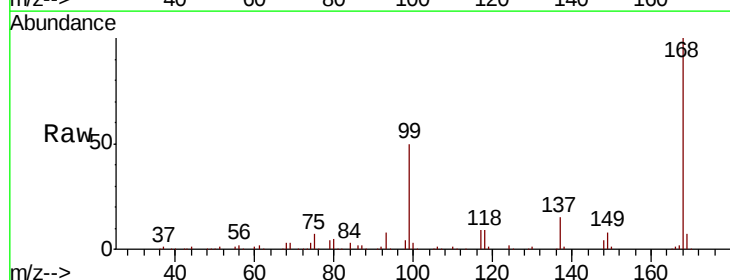
Tgt Ion: 117 Resp: 24836

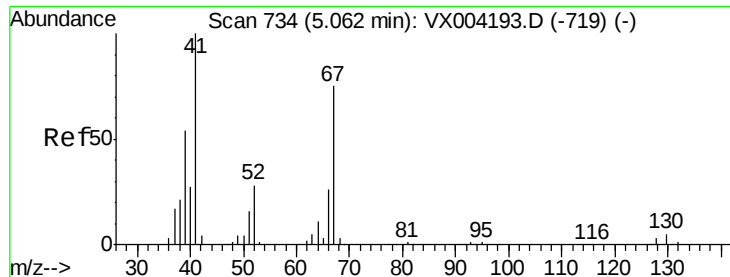
Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

121 0.0 24.9 37.3#

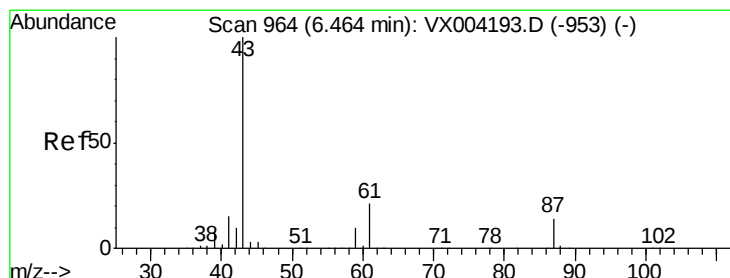
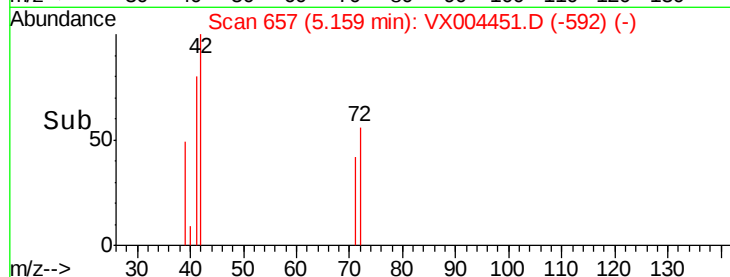
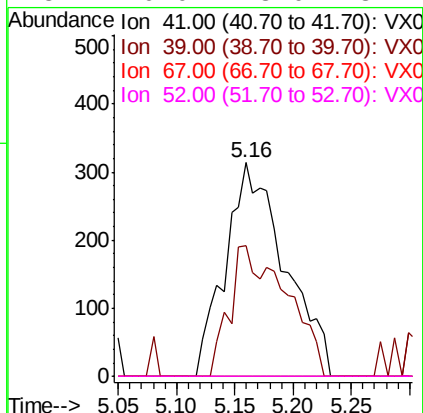
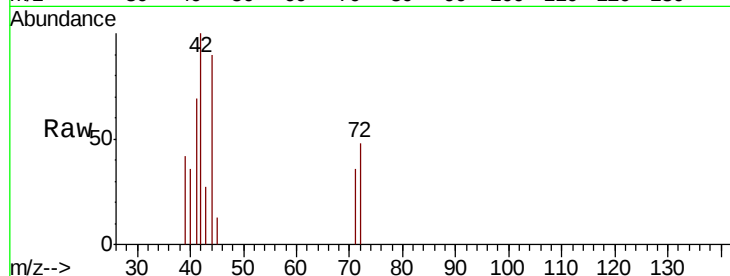




#41
Methacrylonitrile
Concen: 0.37 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

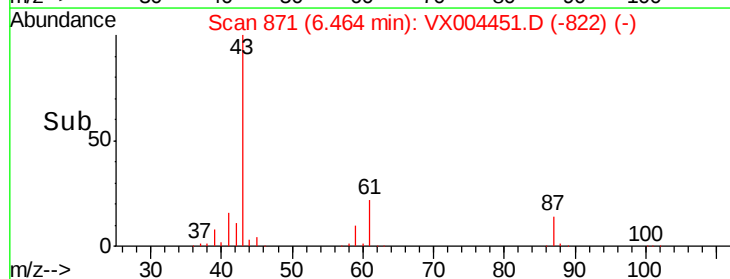
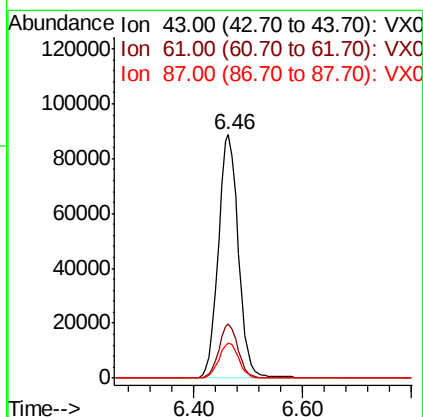
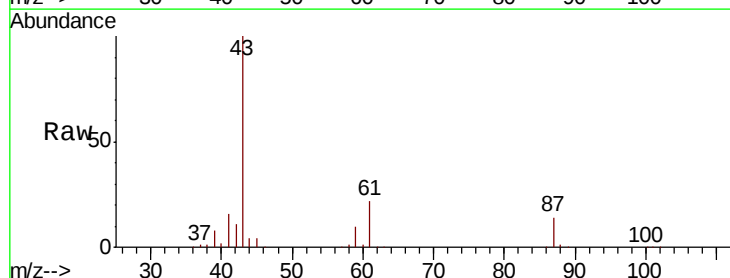
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

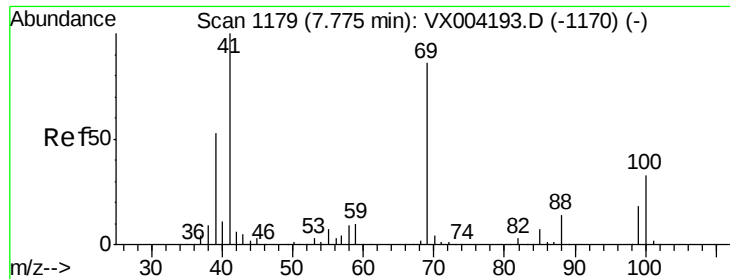
Tot Ion:	41	Resp:	1115
Ion	Ratio	Lower	Upper
41	100		
39	29.6	42.4	63.6#
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 28.11 ug/l
RT: 6.46 min Scan# 871
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion:	43	Resp:	226839
Ion	Ratio	Lower	Upper
43	100		
61	21.4	17.0	25.4
87	14.3	11.4	17.2

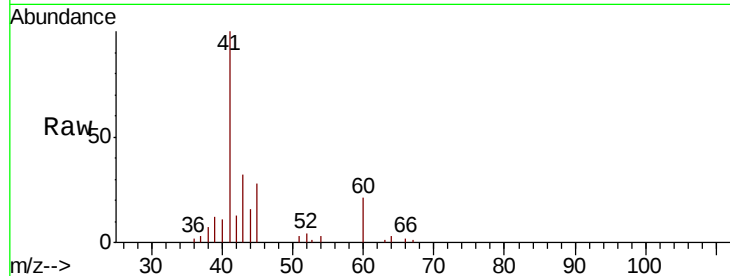




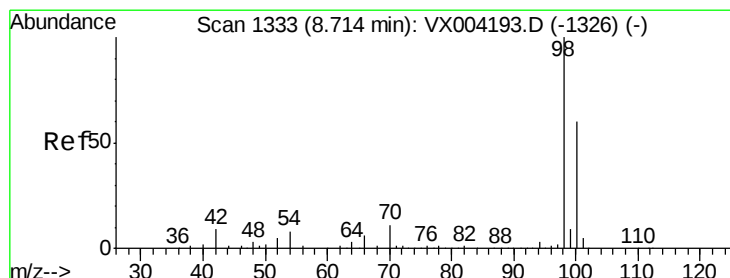
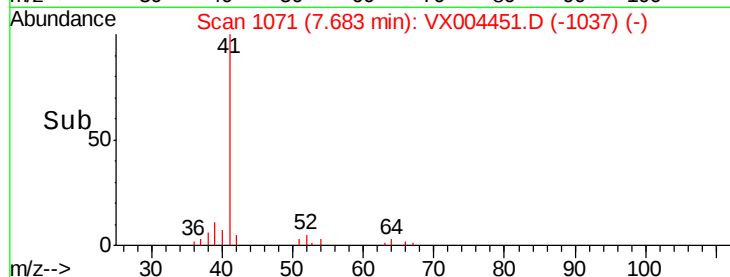
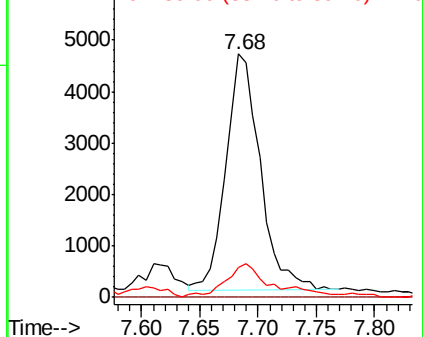
#48
Methvl methacrylate
Concen: 2.20 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

Tot Ion: 41 Resp: 9481
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 19.1 42.7 64.1#

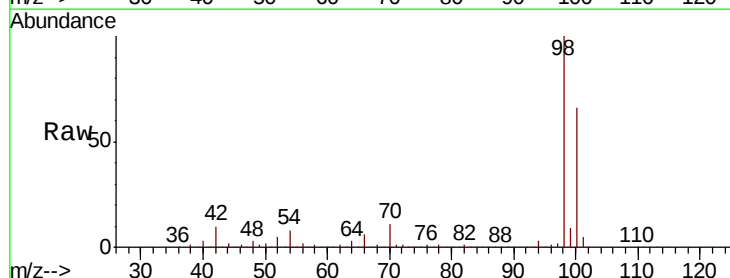


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

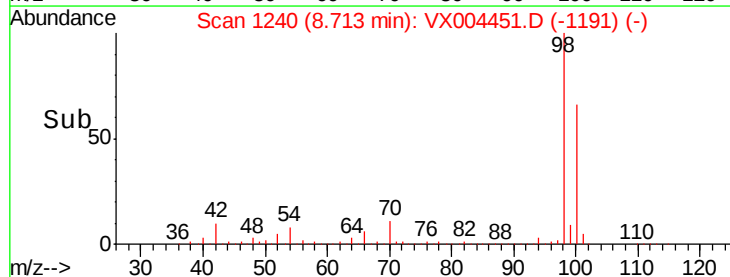
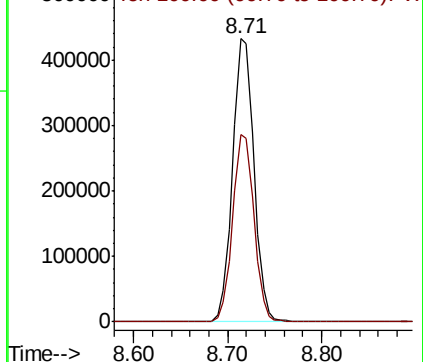


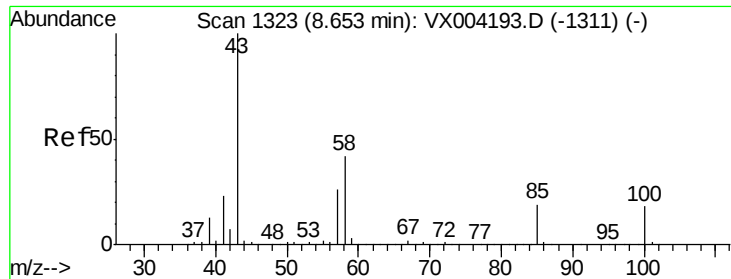
#50
Toluene-d8
Concen: 51.17 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 98 Resp: 682375
Ion Ratio Lower Upper
98 100
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.86 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

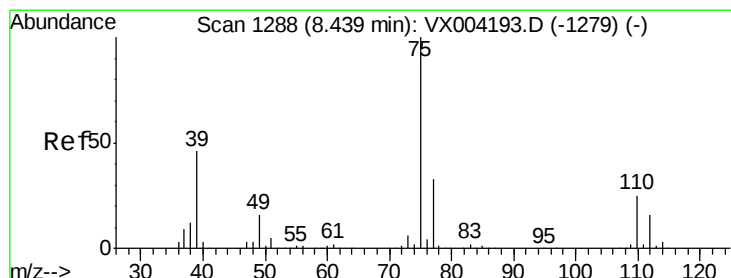
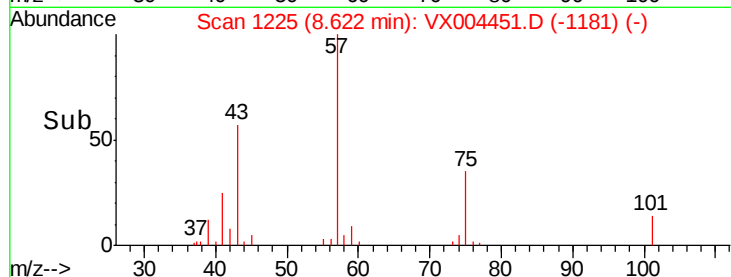
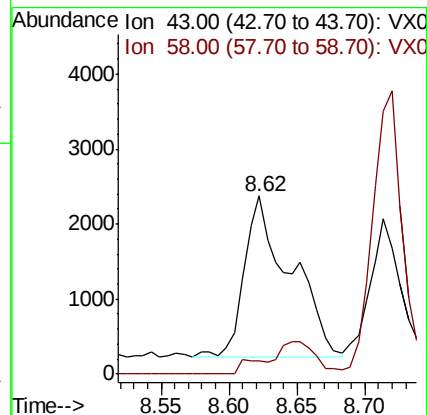
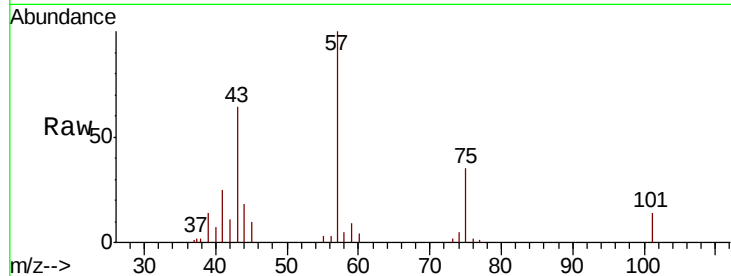
PB112704ZHE#08

Tot Ion: 43 Resp: 5024

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.31 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

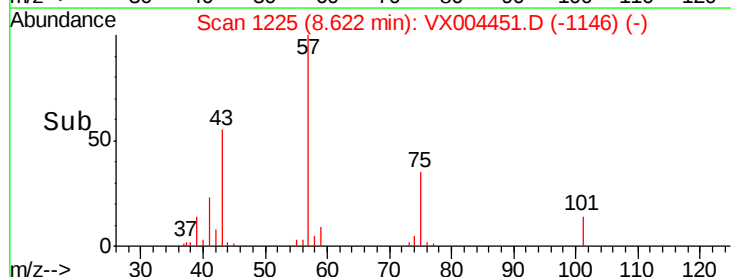
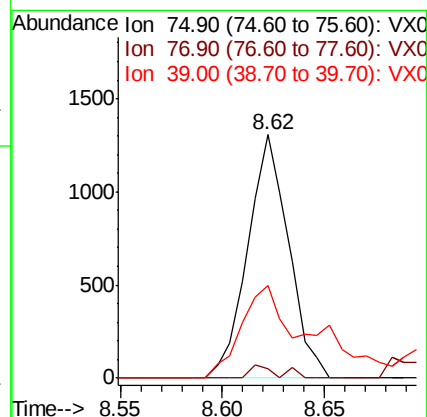
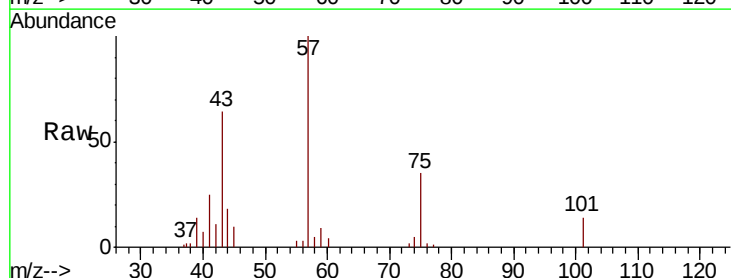
Tgt Ion: 75 Resp: 1821

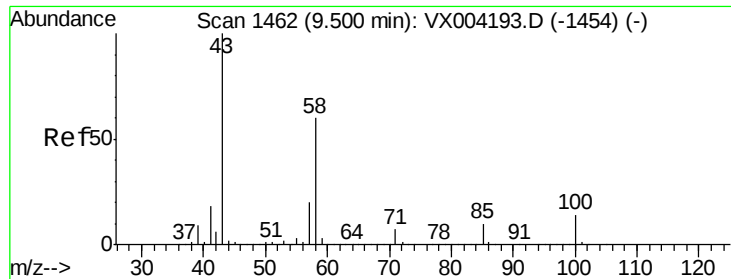
Ion Ratio Lower Upper

75 100

77 3.9 26.2 39.2#

39 38.1 36.4 54.6

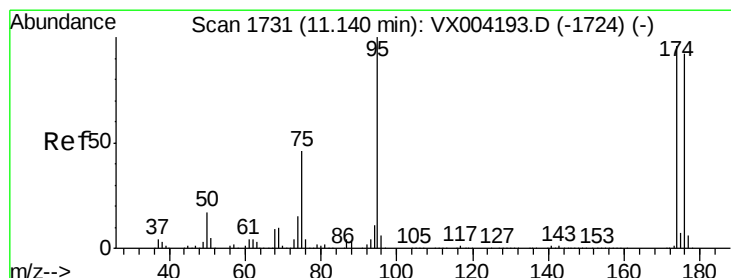
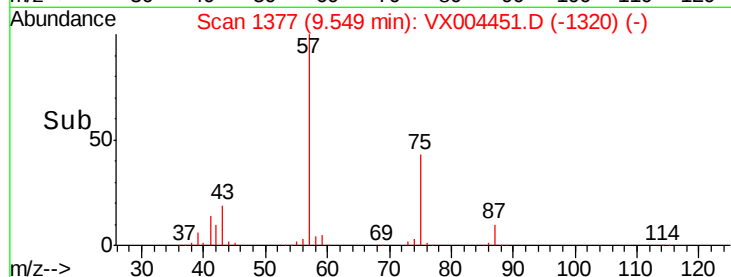
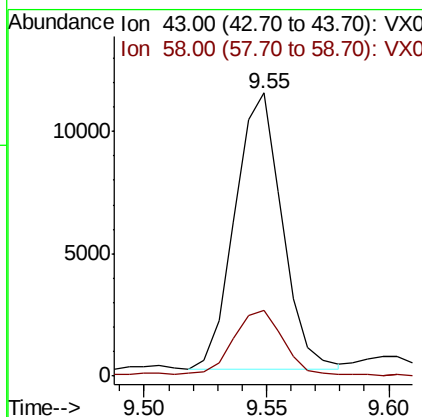
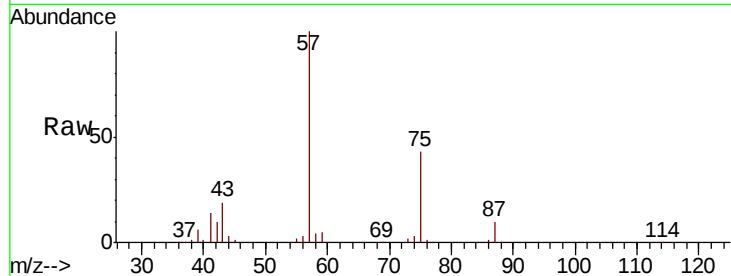




#59
2-Hexanone
Concen: 3.37 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

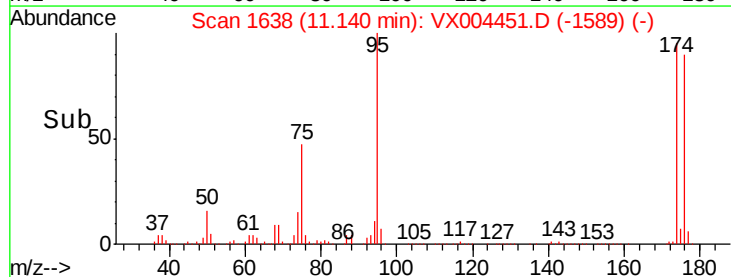
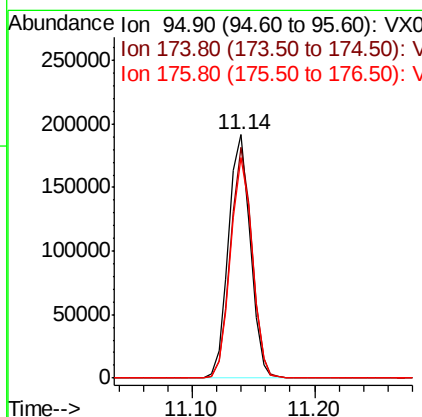
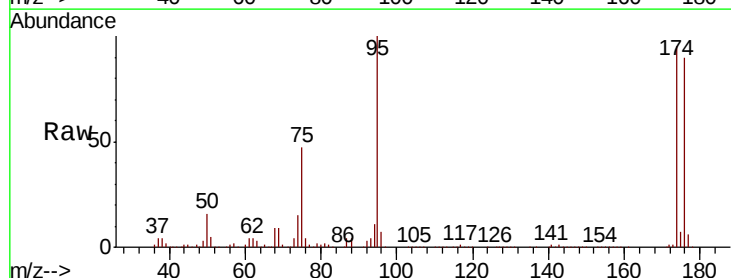
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

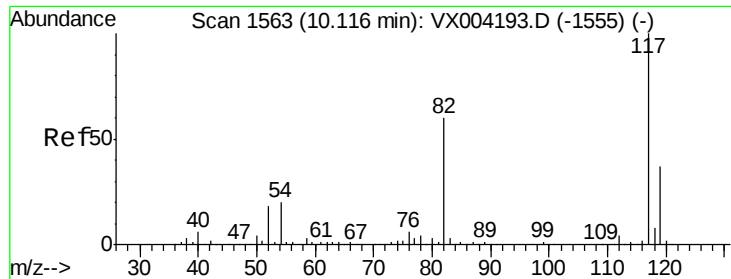
Tot Ion: 43 Resp: 15091
Ion Ratio Lower Upper
43 100
58 26.3 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 47.69 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion: 95 Resp: 237311
Ion Ratio Lower Upper
95 100
174 92.9 0.0 185.2
176 89.7 0.0 178.6

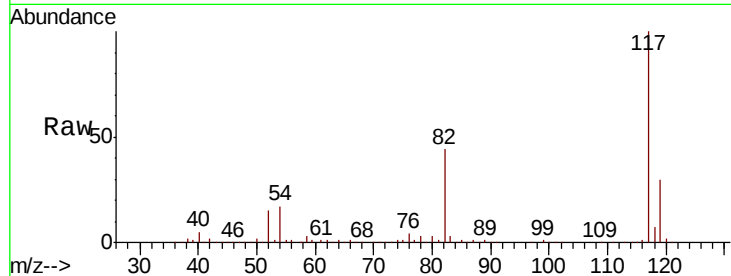




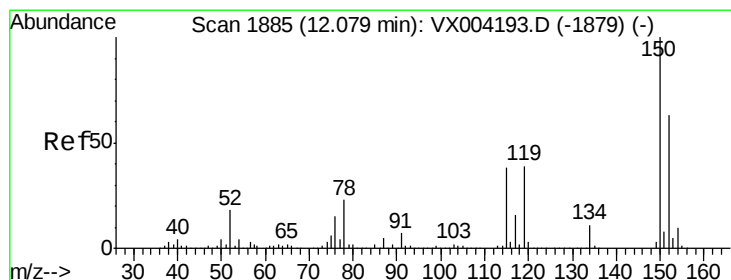
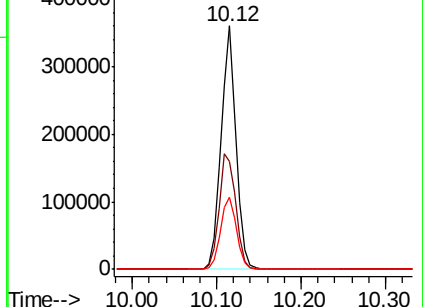
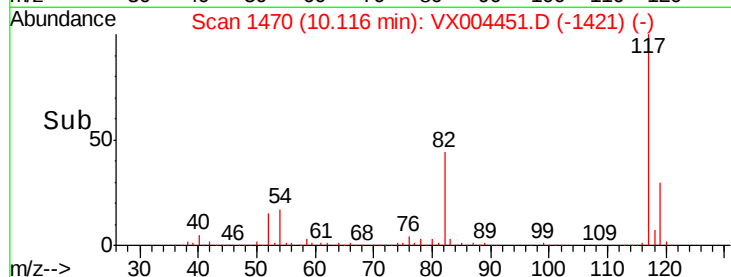
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#08

Tot Ion:117 Resp: 442787
Ion Ratio Lower Upper
117 100
82 44.2 47.8 71.6#
119 29.5 29.3 43.9

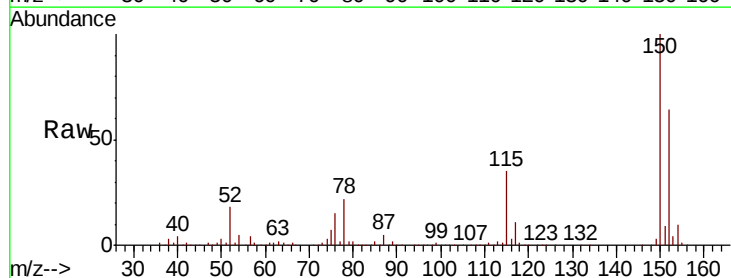


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

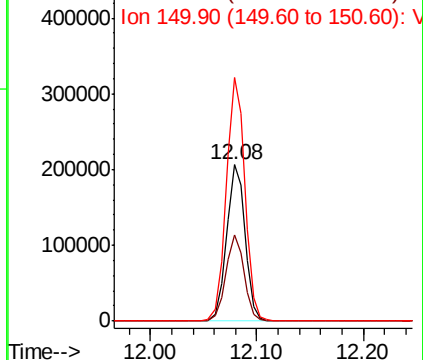
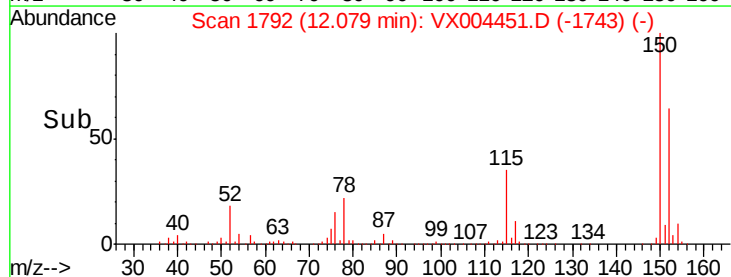


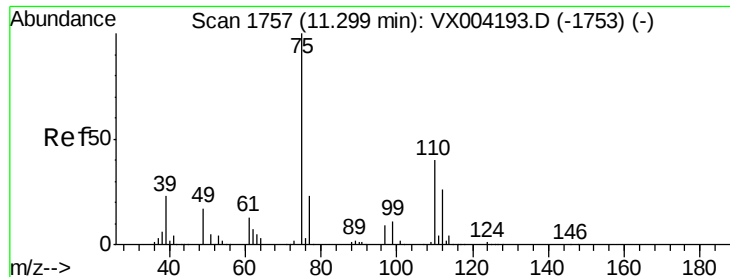
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004451.D
Acq: 10 Sep 2018 16:21

Tgt Ion:152 Resp: 251200
Ion Ratio Lower Upper
152 100
115 54.6 39.0 117.0
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

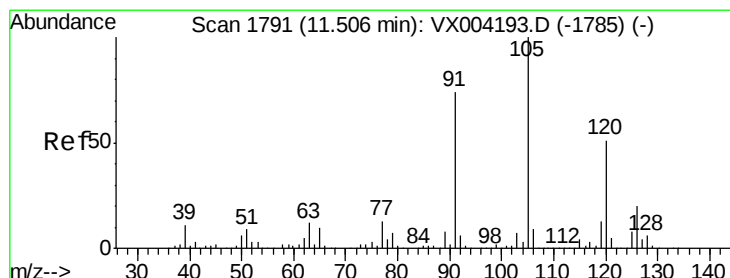
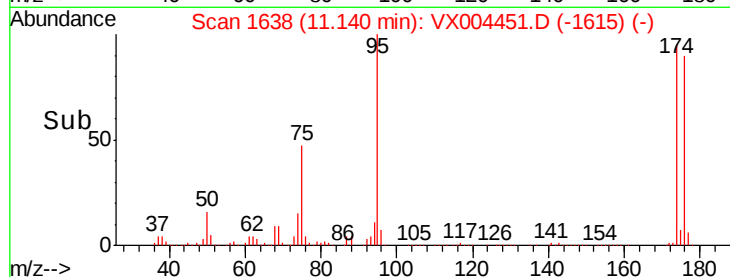
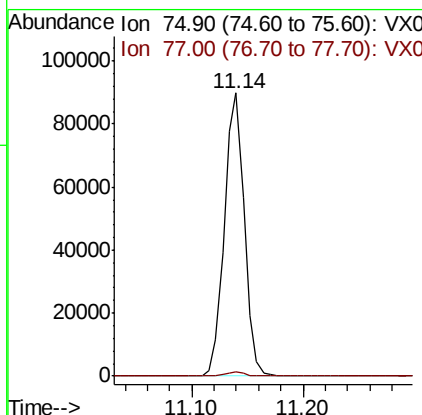
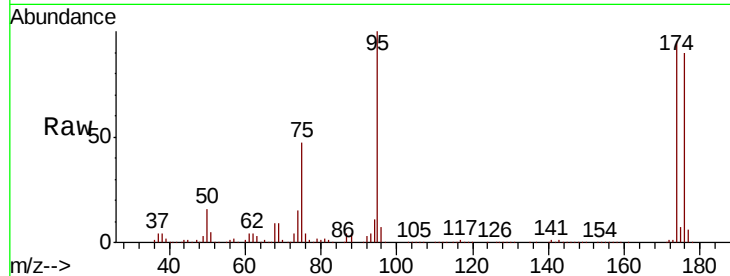




#76
 1,2,3-Trichloropropane
 Concen: 21.74 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004451.D
 Acq: 10 Sep 2018 16:21

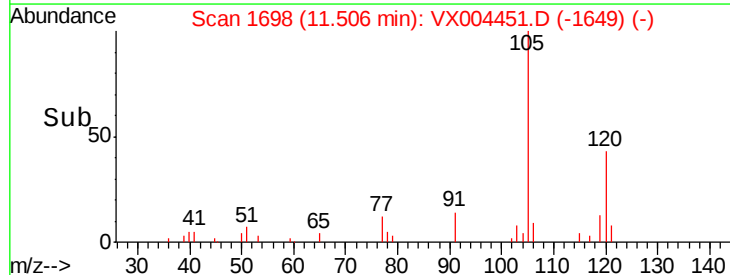
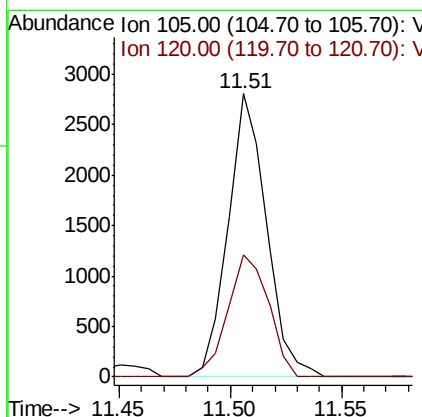
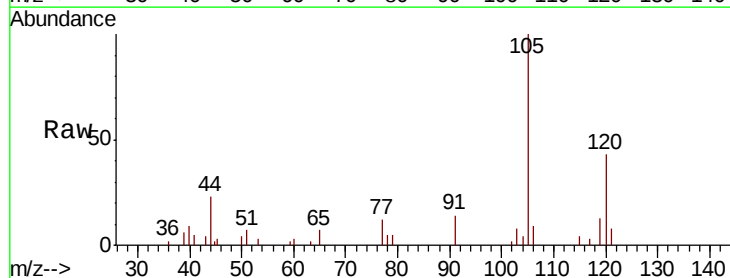
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#08

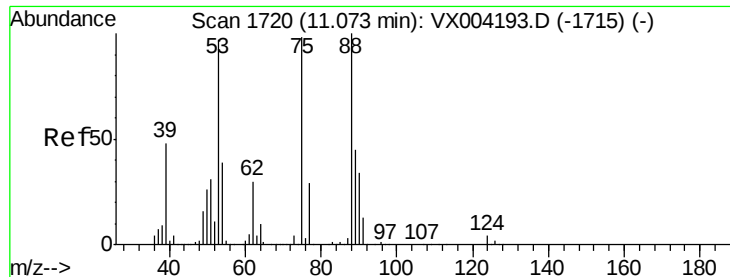
Tot Ion: 75 Resp: 111076
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004451.D
 Acq: 10 Sep 2018 16:21

Tgt Ion: 105 Resp: 3378
 Ion Ratio Lower Upper
 105 100
 120 45.9 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.54 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#08

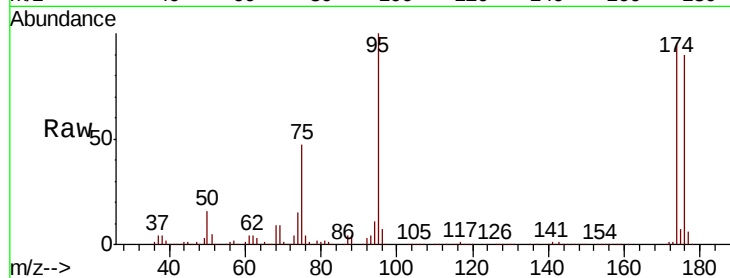
Tot Ion: 75 Resp: 111076

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

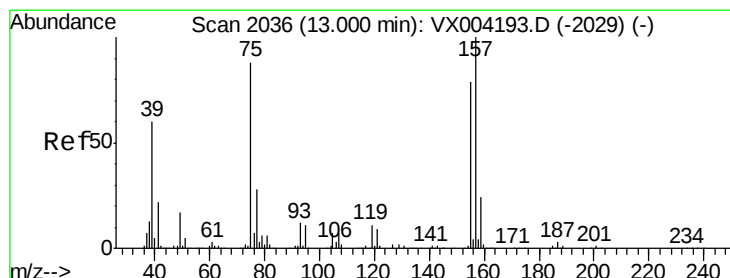
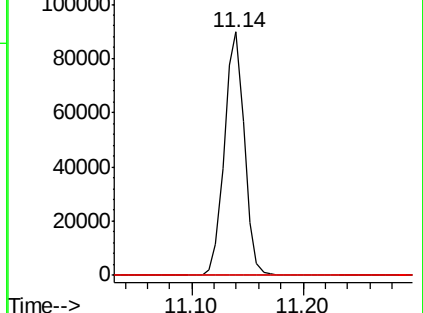
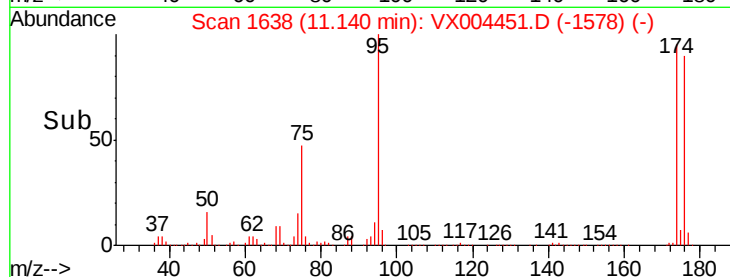
89 0.0 37.2 55.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.21 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX004451.D

Acq: 10 Sep 2018 16:21

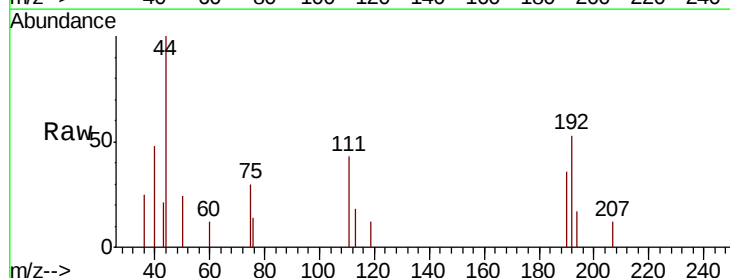
Tgt Ion: 75 Resp: 217

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

157 0.0 61.4 184.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

