

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004455.D
 Acq On : 10 Sep 2018 18:08
 Operator : JC/MD
 Sample : PB112704ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#12

Quant Time: Sep 11 01:22:19 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	295246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	486943	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	458586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	261254	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	211681	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
35) Dibromofluoromethane	5.50	113	187845	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
50) Toluene-d8	8.72	98	707031	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.14	95	249141	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	

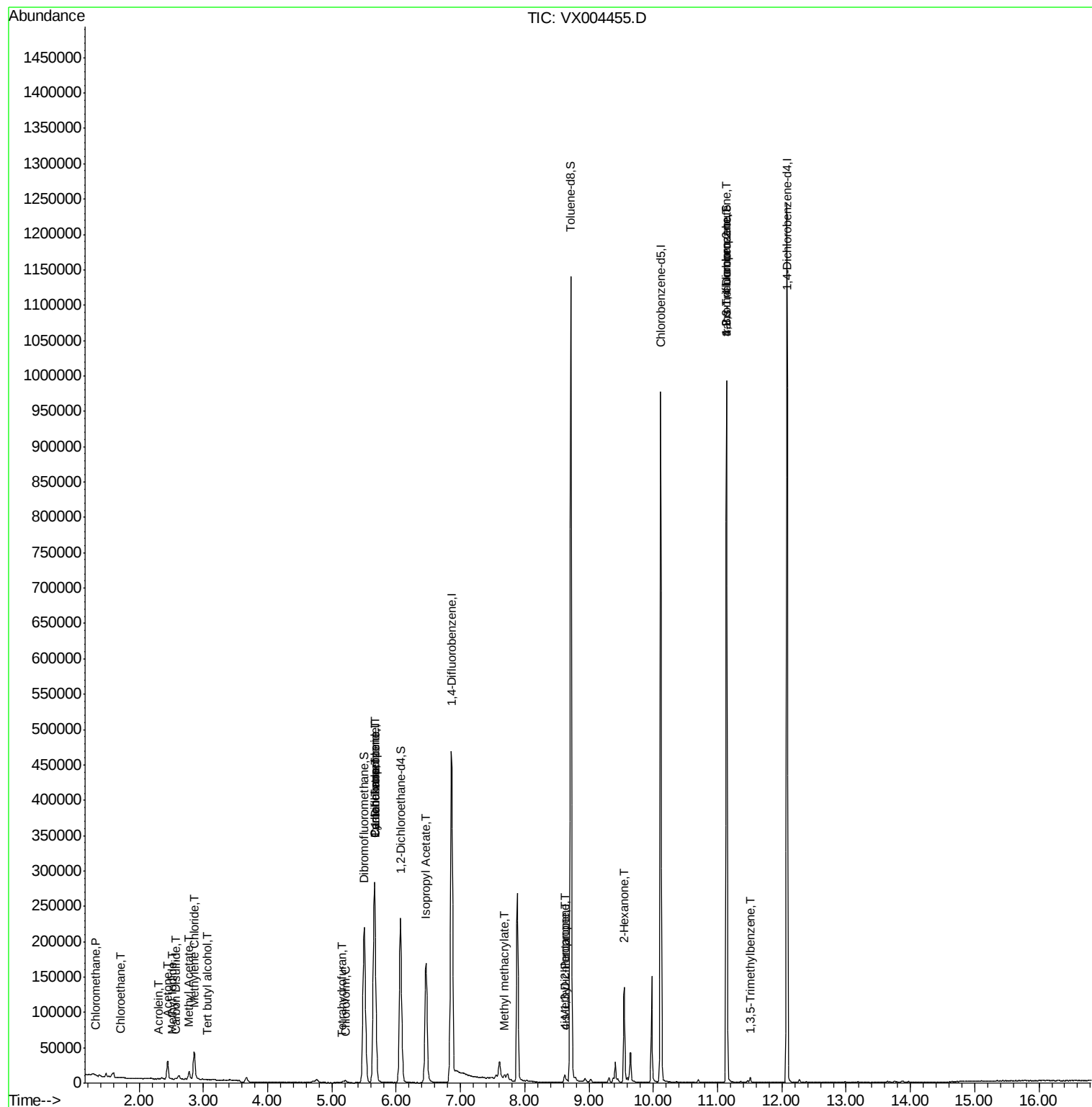
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	687	0.47	ug/l	# 82
5) Bromomethane	1.65	94	571	Below Cal		# 58
6) Chloroethane	1.71	64	150	1.02	ug/l	# 44
10) Methyl Iodide	2.52	142	158	4.30	ug/l	# 41
11) Tert butyl alcohol	3.06	59	370	0.45	ug/l	# 88
13) Acrolein	2.29	56	131	0.66	ug/l	95
16) Acetone	2.45	43	27729	9.90	ug/l	92
17) Carbon Disulfide	2.57	76	431	0.85	ug/l	# 76
18) Methyl Acetate	2.78	43	13108	2.30	ug/l	99
20) Methylene Chloride	2.85	84	18609	5.02	ug/l	98
25) 2-Butanone	4.70	43	3149	Below Cal		95
29) Tetrahydrofuran	5.15	42	605	0.37	ug/l	# 10
30) Chloroform	5.21	83	3299	0.53	ug/l	99
31) Cyclohexane	5.66	56	4877	0.90	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18815	3.44	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	25132	4.88	ug/l	# 16
43) Isopropyl Acetate	6.46	43	216512	26.17	ug/l	99
48) Methyl methacrylate	7.69	41	9077	2.05	ug/l	# 20
51) 4-Methyl-2-Pentanone	8.62	43	3262	0.54	ug/l	# 34
54) cis-1,3-Dichloropropene	8.62	75	1668	0.27	ug/l	# 70
59) 2-Hexanone	9.55	43	14528	3.17	ug/l	# 54
76) 1,2,3-Trichloropropane	11.14	75	115741	21.78	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	2965	0.21	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	115741	70.68	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	118	Below Cal		# 20

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

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

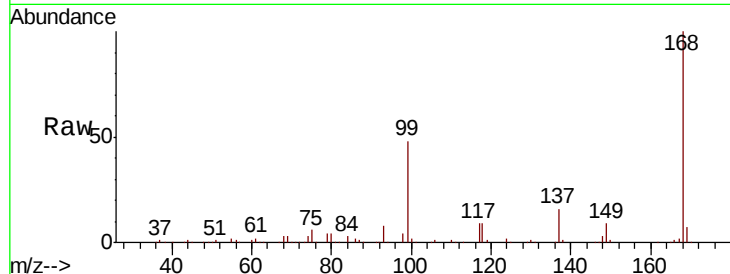
PB112704ZHE#12

Tot Ion:168 Resp: 295246

Ion Ratio Lower Upper

168 100

99 47.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

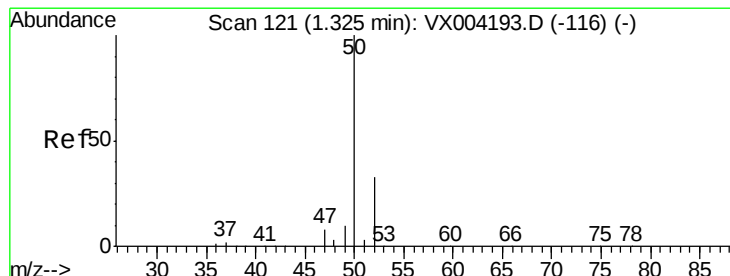
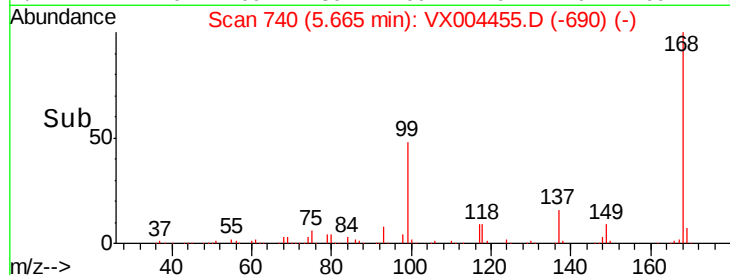
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.47 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004455.D

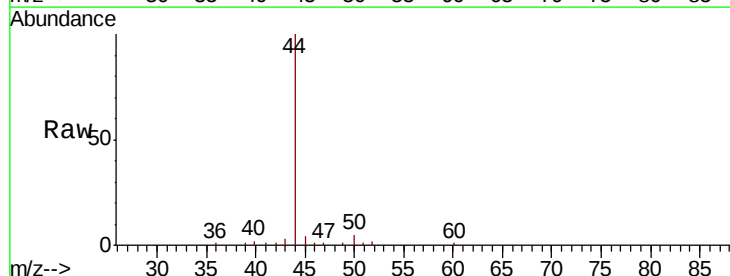
Acq: 10 Sep 2018 18:08

Tgt Ion: 50 Resp: 687

Ion Ratio Lower Upper

50 100

52 42.6 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

500

400

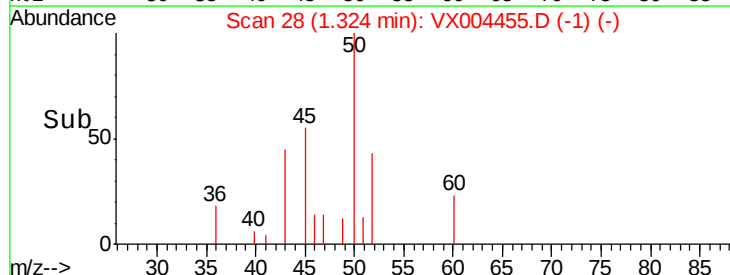
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

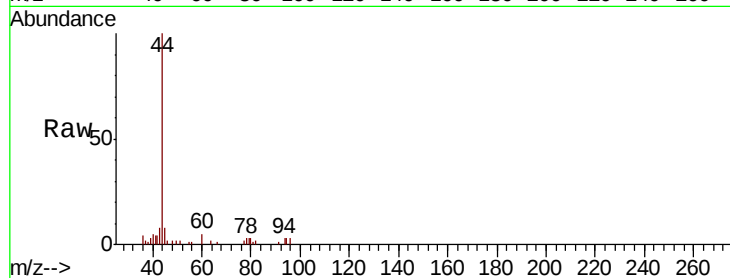
PB112704ZHE#12

Tot Ion: 94 Resp: 571

Ion Ratio Lower Upper

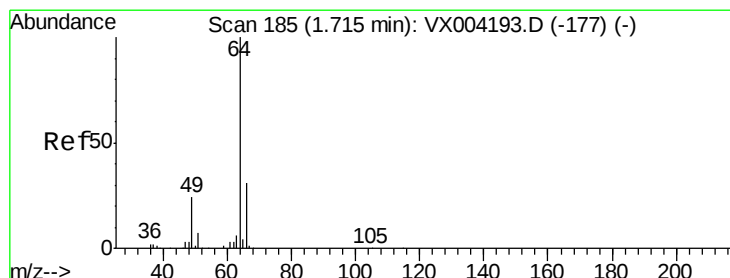
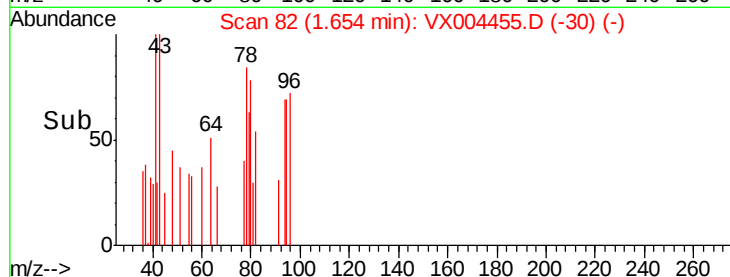
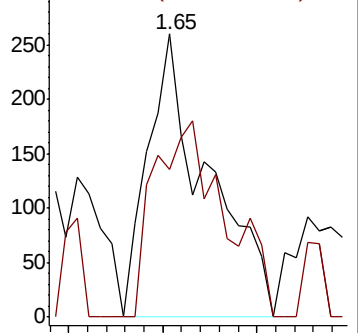
94 100

96 52.3 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: 1.02 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX004455.D

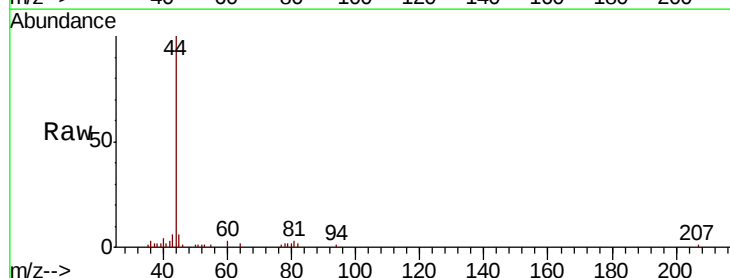
Acq: 10 Sep 2018 18:08

Tgt Ion: 64 Resp: 150

Ion Ratio Lower Upper

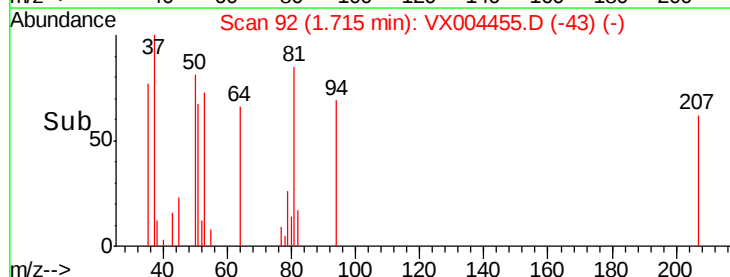
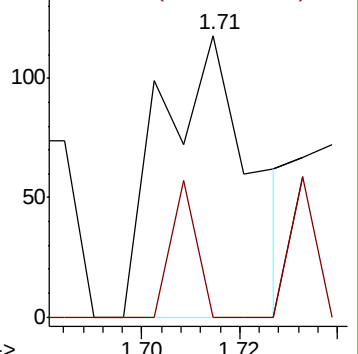
64 100

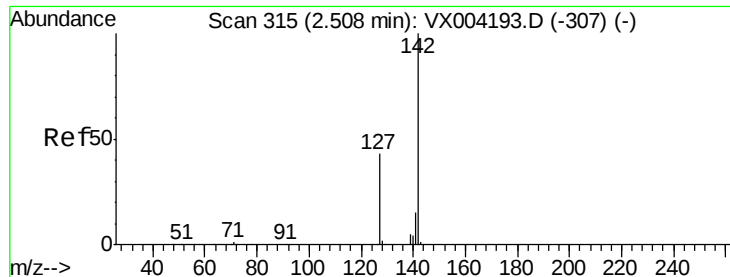
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

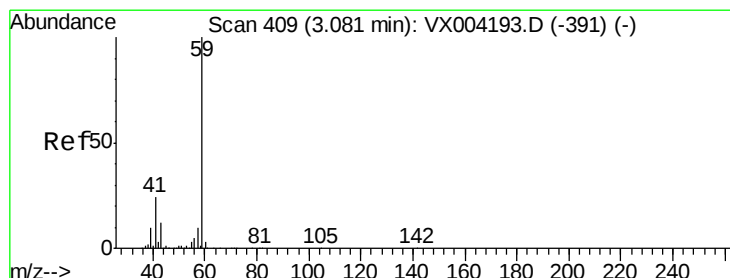
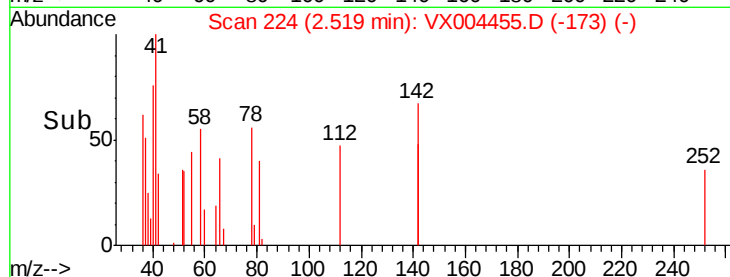
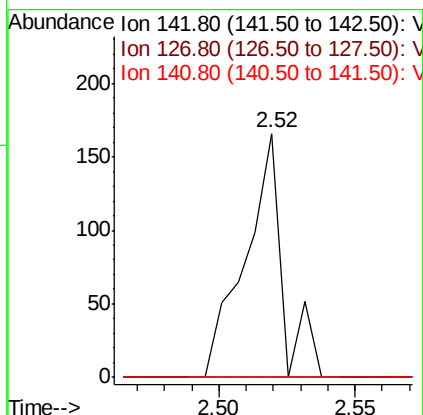
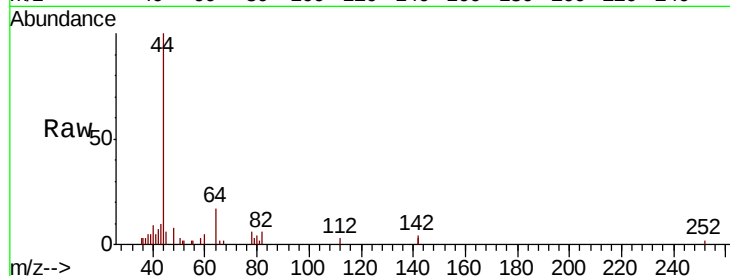




#10
Methyl Iodide
Concen: 4.30 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

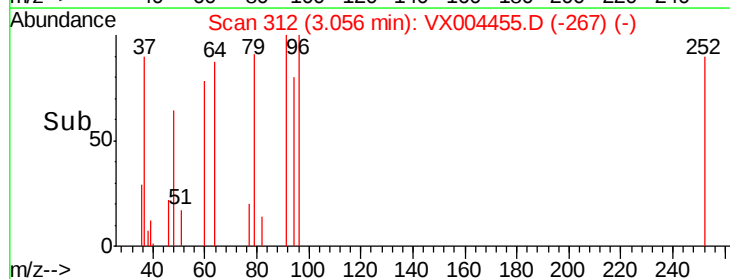
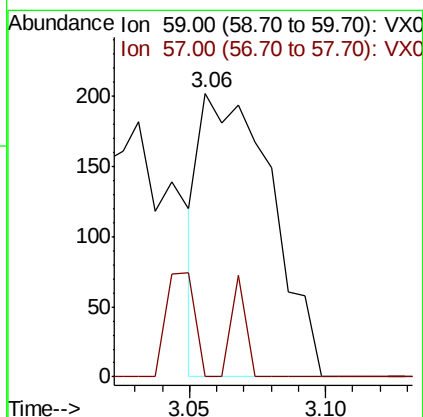
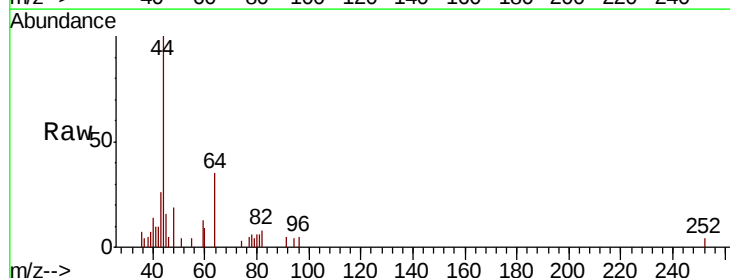
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#12

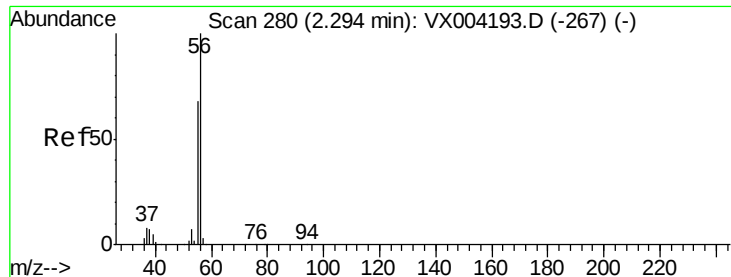
Tot Ion:142 Resp: 158
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.45 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

Tgt Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
57 14.6 8.2 12.4#





#13

Acrolein

Concen: 0.66 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

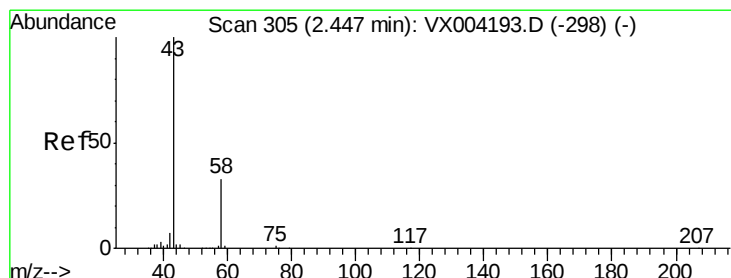
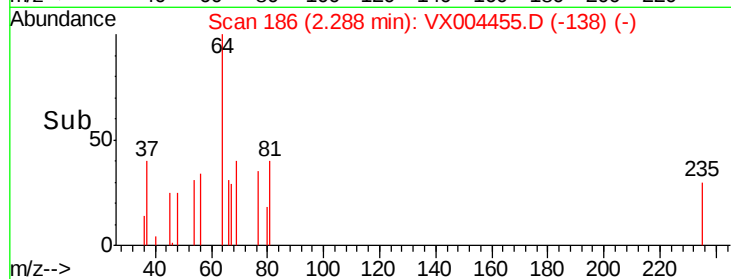
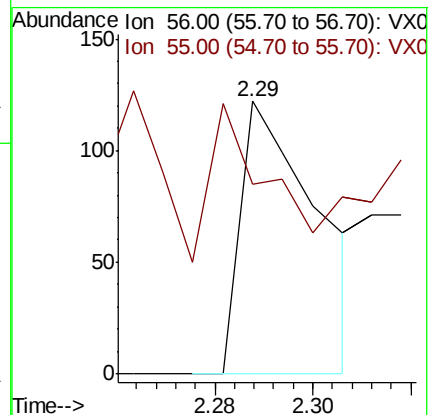
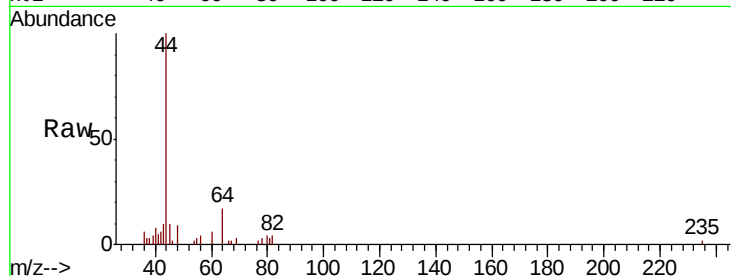
PB112704ZHE#12

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 64.1 54.7 82.1



#16

Acetone

Concen: 9.90 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004455.D

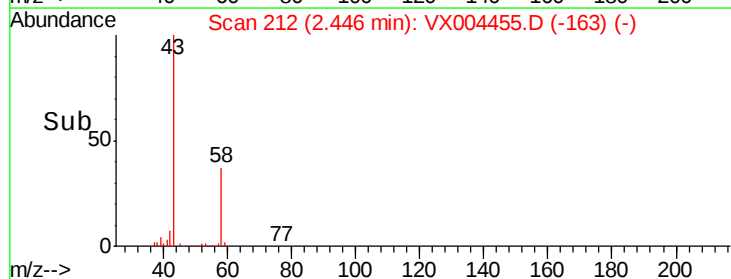
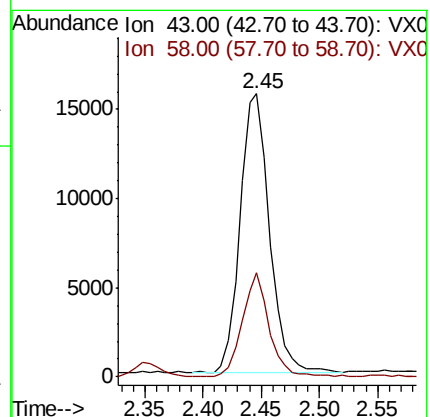
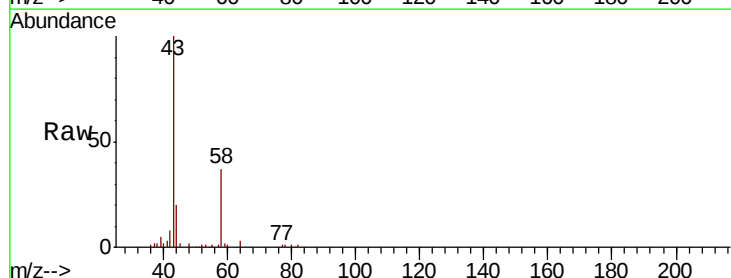
Acq: 10 Sep 2018 18:08

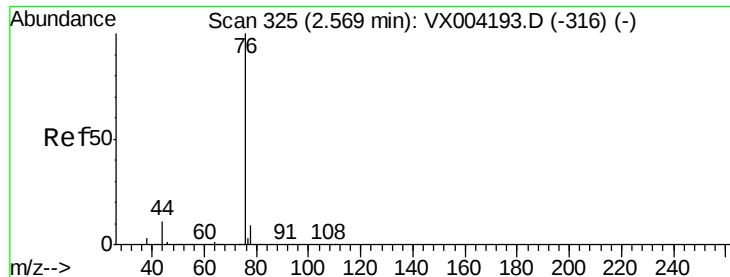
Tgt Ion: 43 Resp: 27729

Ion Ratio Lower Upper

43 100

58 37.2 26.2 39.4

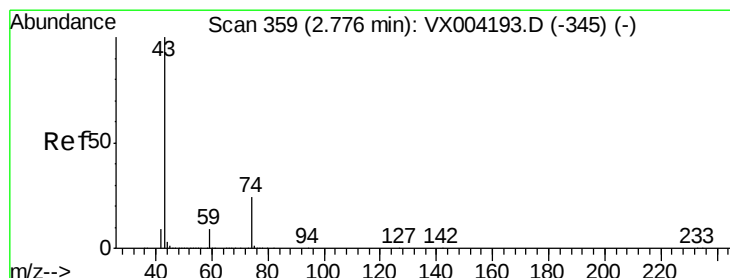
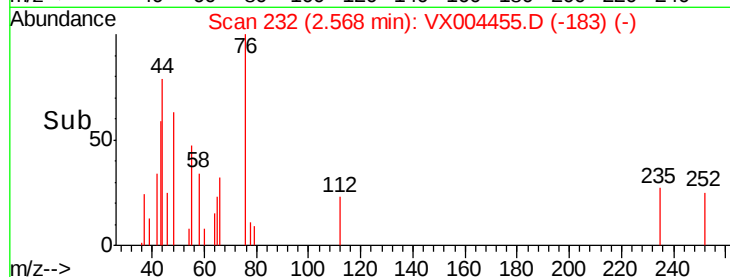
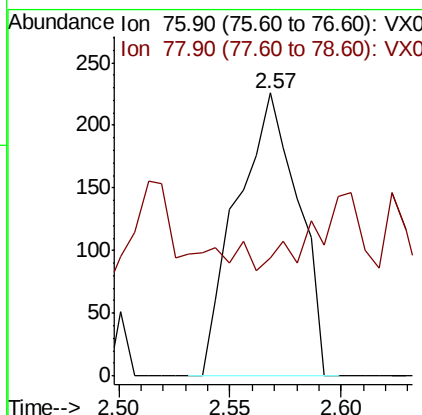
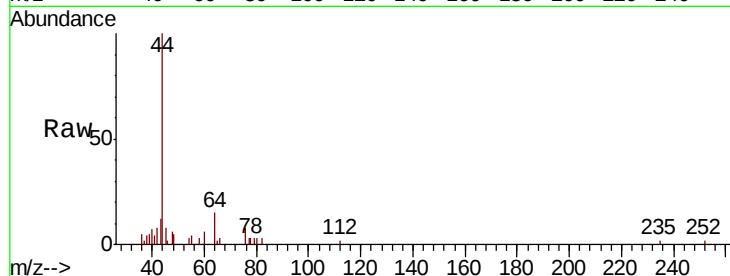




#17
Carbon Disulfide
Concen: 0.85 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

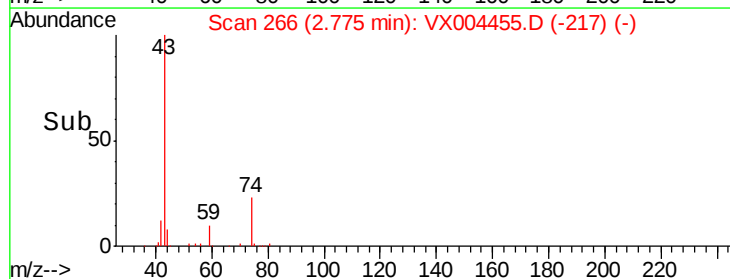
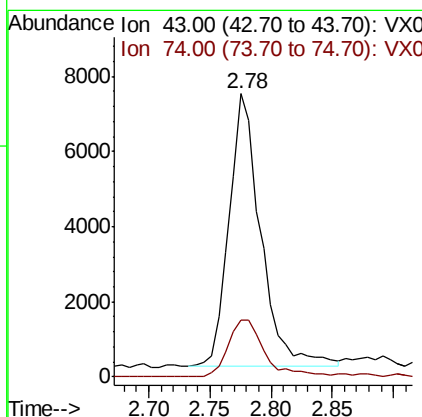
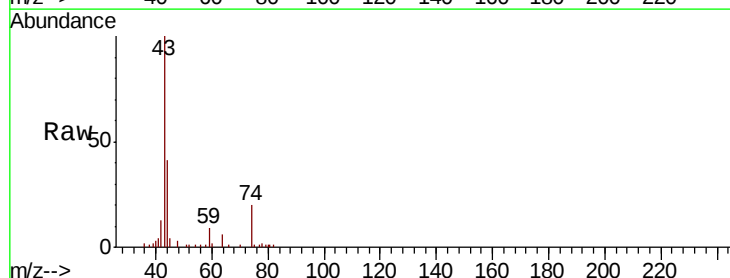
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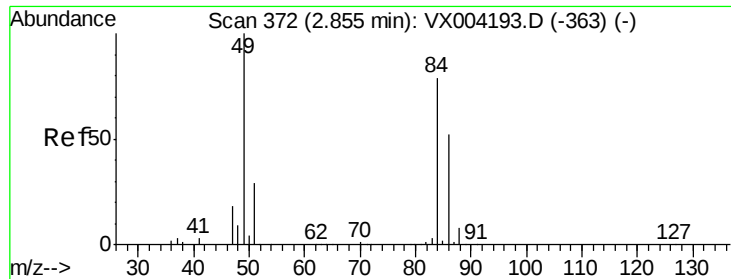
Tot Ion: 76 Resp: 431
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 2.30 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

Tgt Ion: 43 Resp: 13108
Ion Ratio Lower Upper
43 100
74 23.9 19.4 29.2

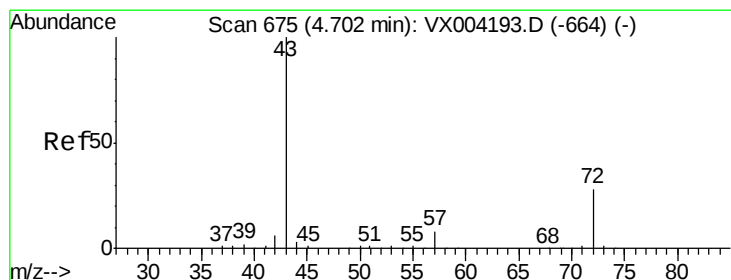
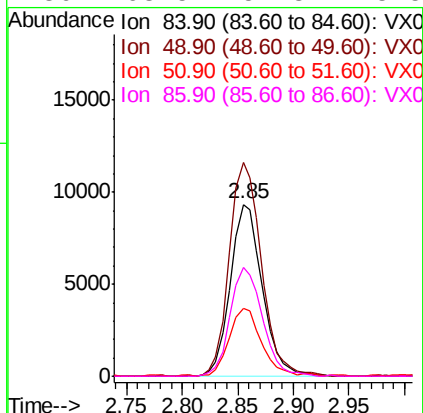
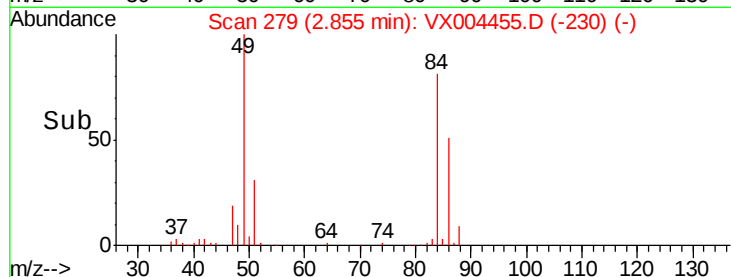
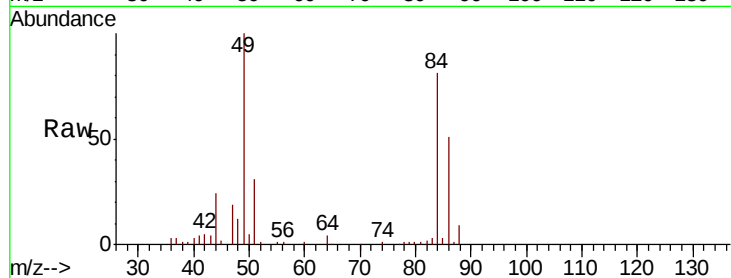




#20
Methvlene Chloride
Concen: 5.02 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

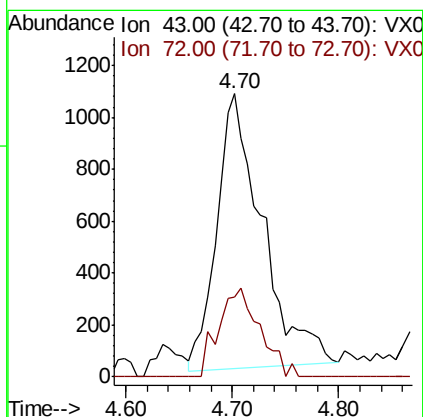
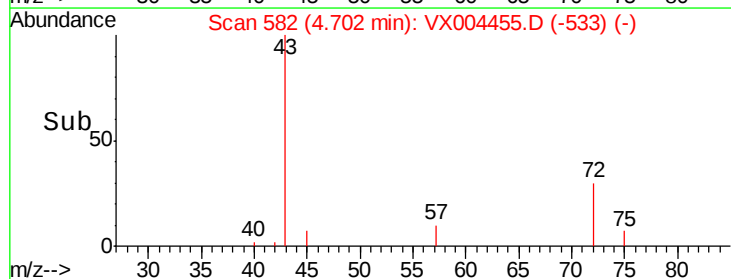
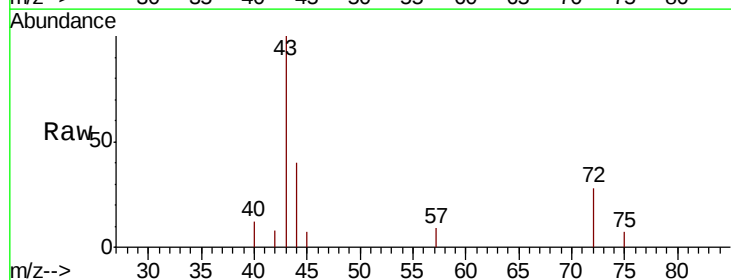
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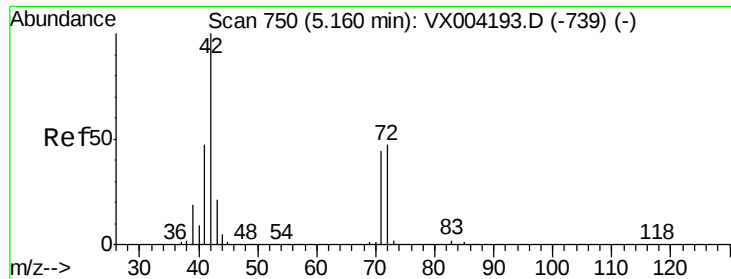
Tot Ion:	84	Resp:	18609
Ion	Ratio	Lower	Upper
84	100		
49	124.2	101.2	151.8
51	38.3	29.5	44.3
86	63.5	52.3	78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

Tgt Ion:	43	Resp:	3149
Ion	Ratio	Lower	Upper
43	100		
72	30.0	22.0	33.0

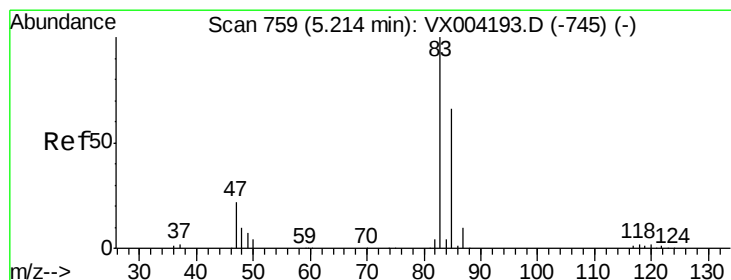
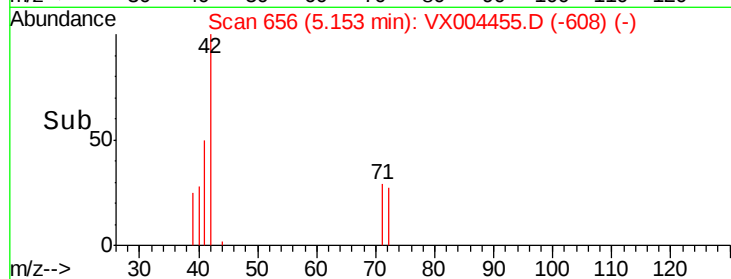
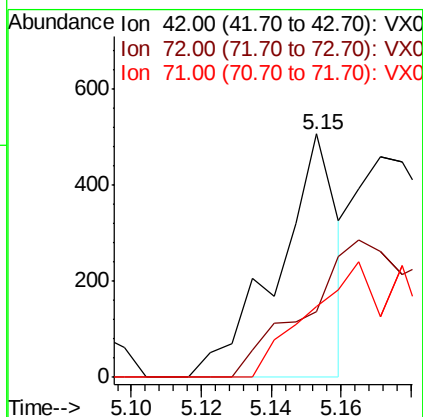
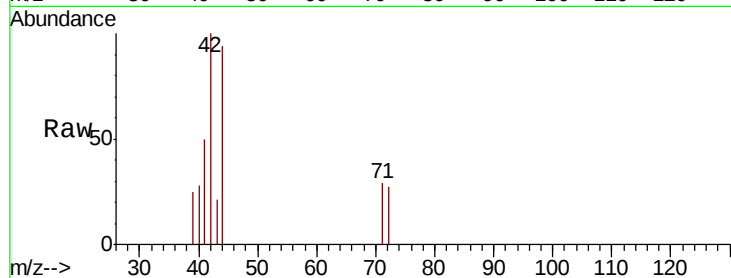




#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.01 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

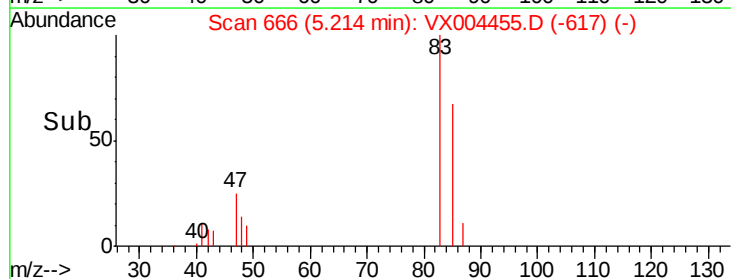
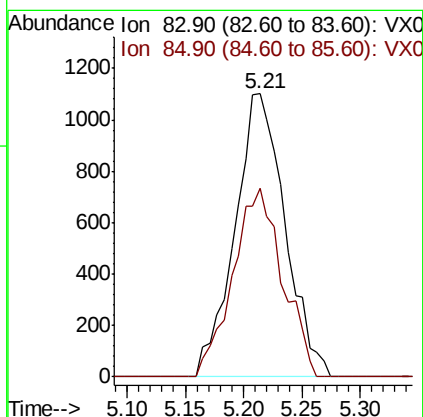
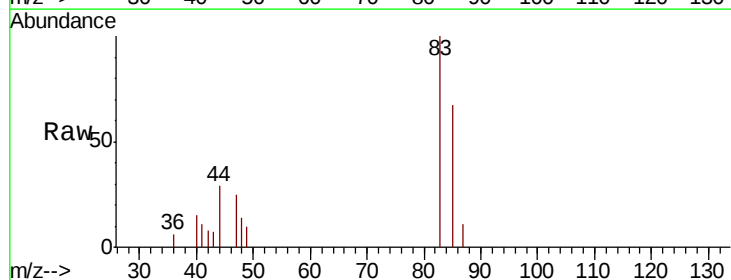
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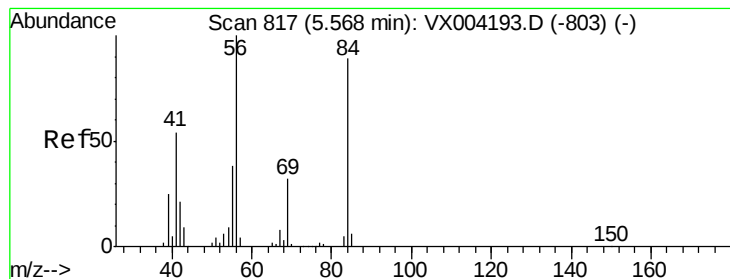
Tot Ion: 42 Resp: 605
Ion Ratio Lower Upper
42 100
72 116.9 37.4 56.0#
71 89.6 34.5 51.7#



#30
Chloroform
Concen: 0.53 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX004455.D
Acq: 10 Sep 2018 18:08

Tgt Ion: 83 Resp: 3299
Ion Ratio Lower Upper
83 100
85 66.8 52.6 79.0





#31

Cyclohexane

Concen: 0.90 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#12

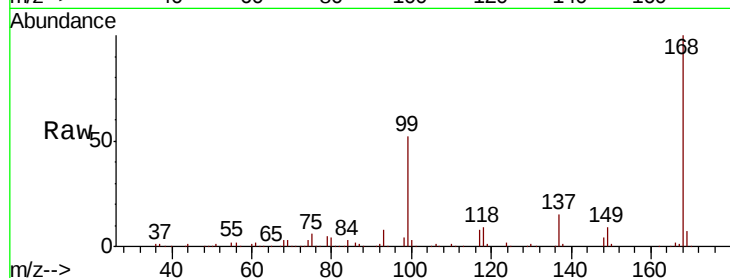
Tot Ion: 56 Resp: 4877

Ion Ratio Lower Upper

56 100

69 198.3 25.4 38.2#

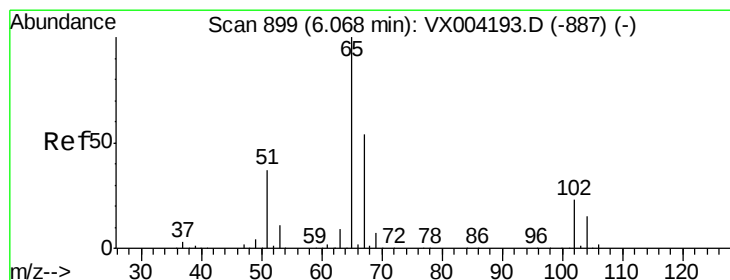
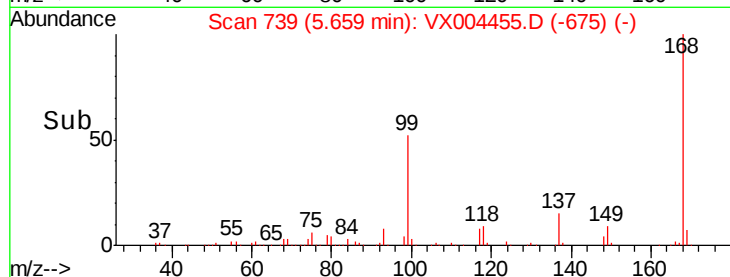
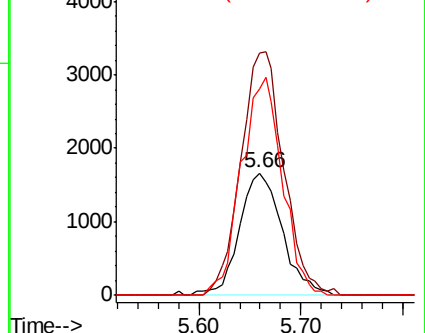
84 169.2 71.4 107.2#



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: 55.01 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004455.D

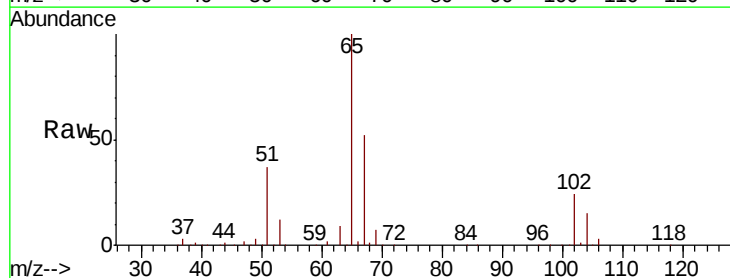
Acq: 10 Sep 2018 18:08

Tgt Ion: 65 Resp: 211681

Ion Ratio Lower Upper

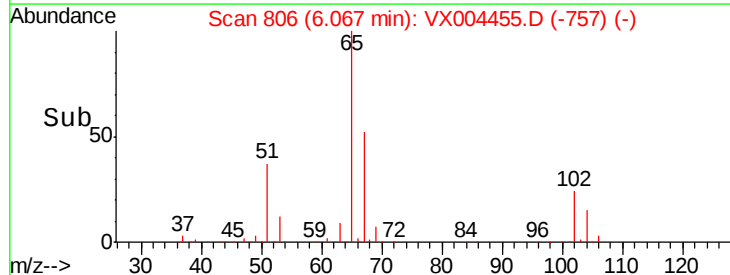
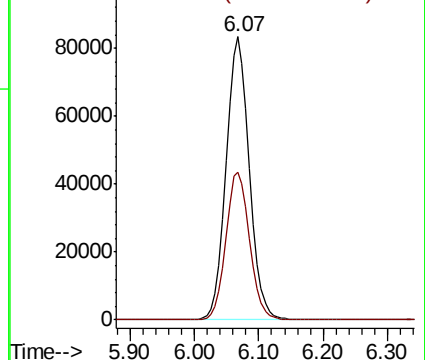
65 100

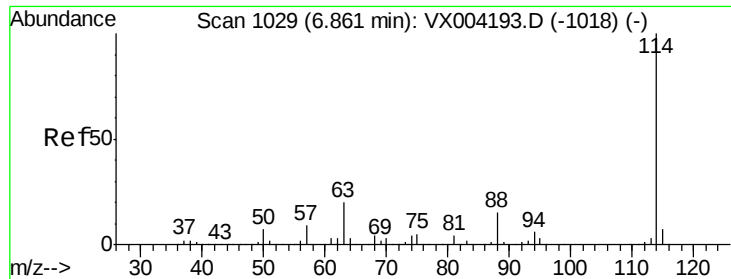
67 53.4 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

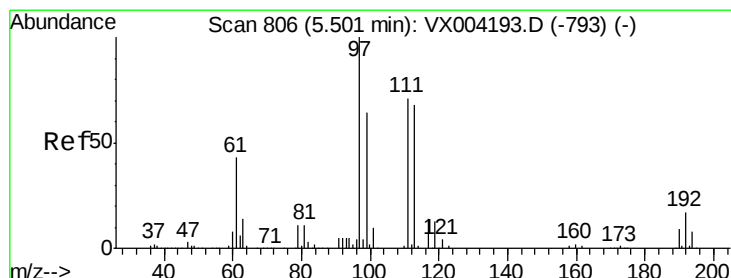
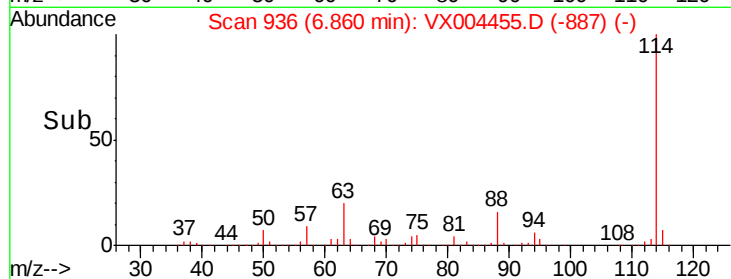
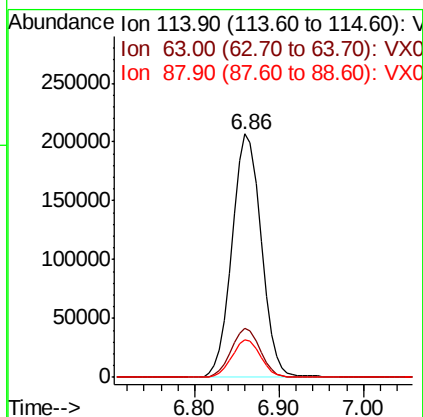
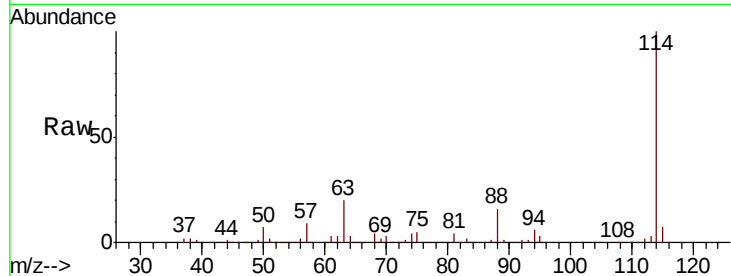




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

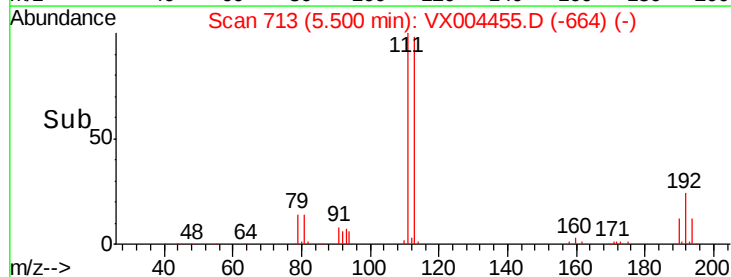
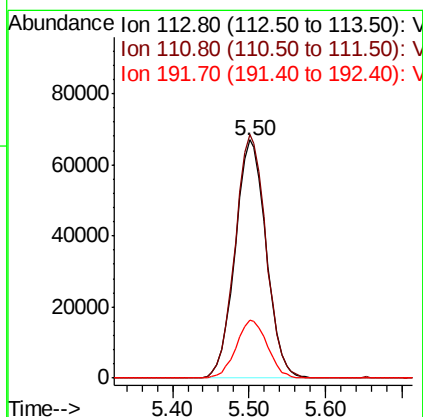
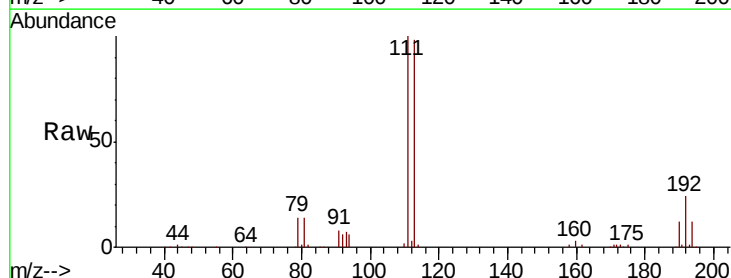
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#12

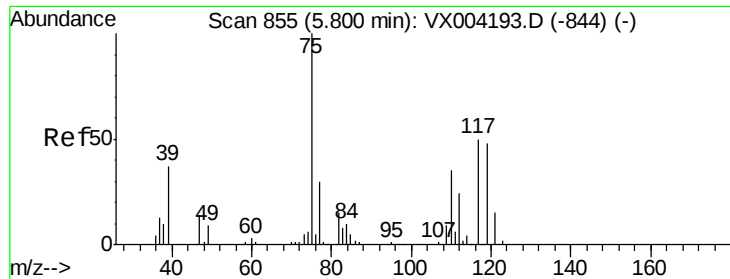
Tot Ion:114 Resp: 486943
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 51.85 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

Tgt Ion:113 Resp: 187845
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.4 123.6
 192 24.5 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.44 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#12

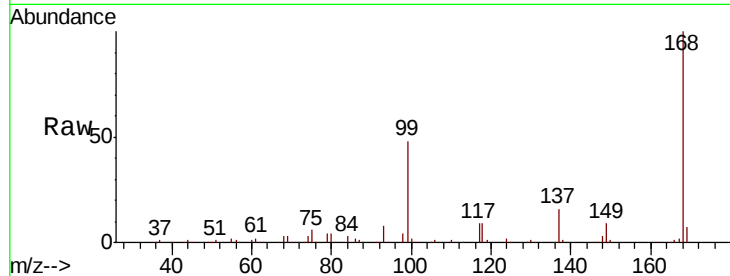
Tot Ion: 75 Resp: 18815

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

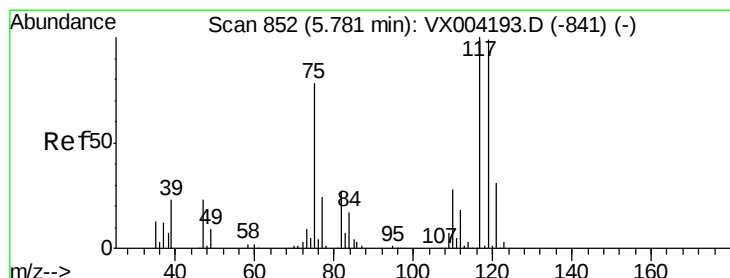
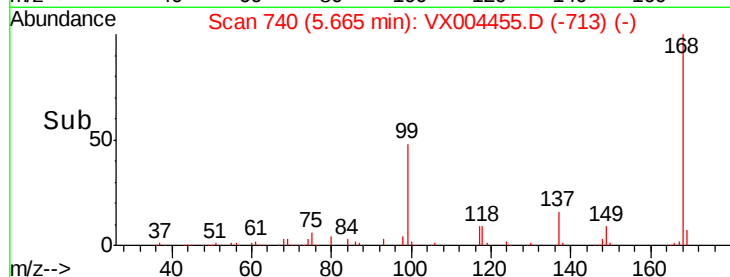
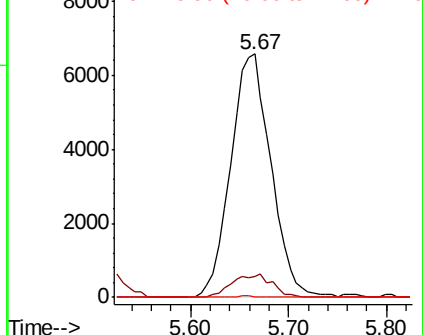
77 0.2 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.88 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

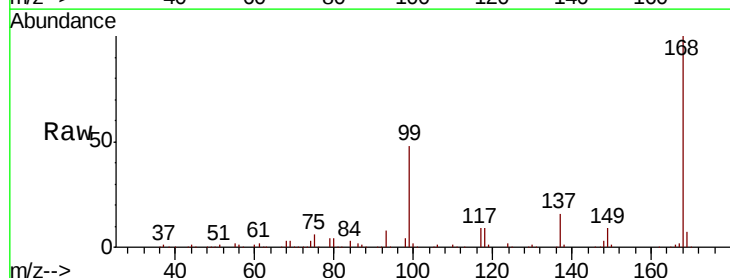
Tgt Ion: 117 Resp: 25132

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

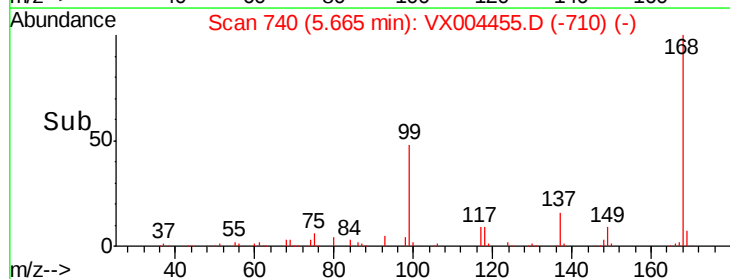
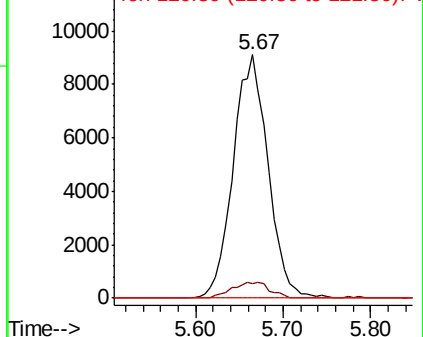
121 0.0 24.9 37.3#

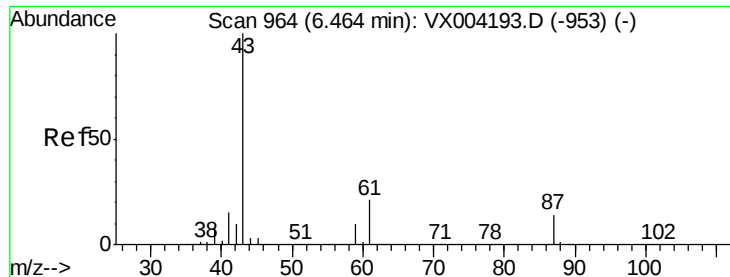


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



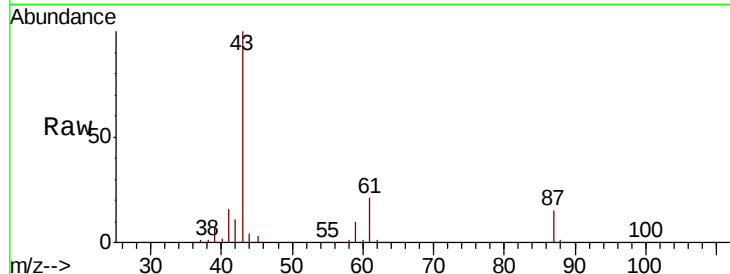


#43

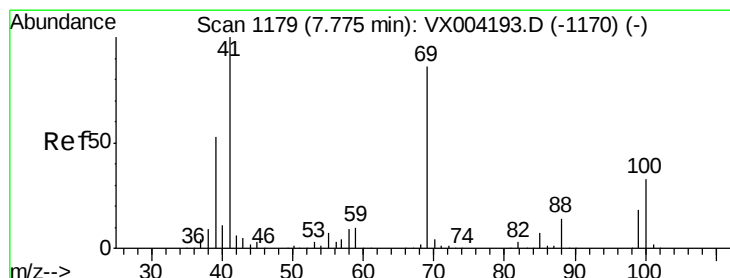
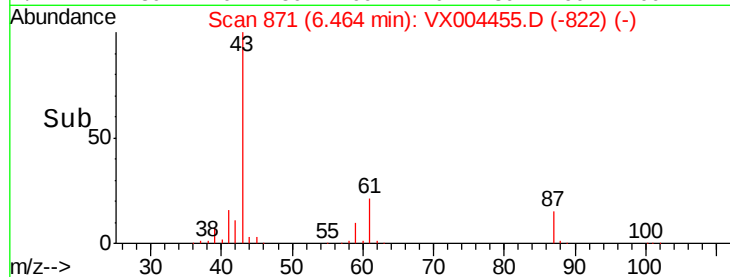
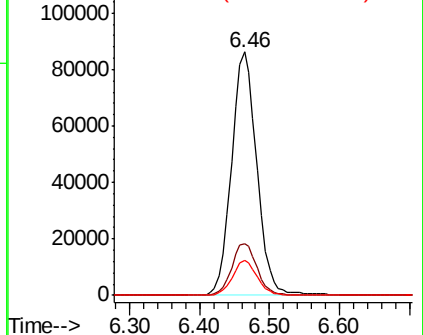
Isopropyl Acetate
 Concen: 26.17 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#12

Tot Ion	43	Resp	216512
Ion Ratio	Lower	Upper	
43	100		
61	21.4	17.0	25.4
87	13.9	11.4	17.2



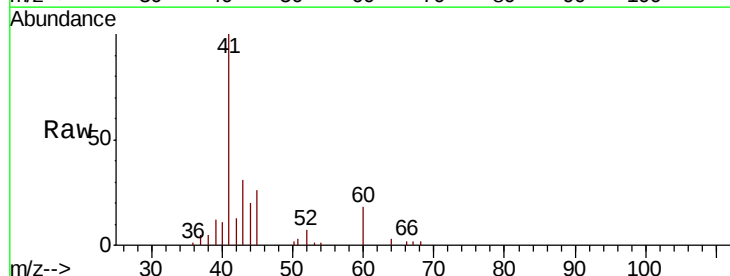
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



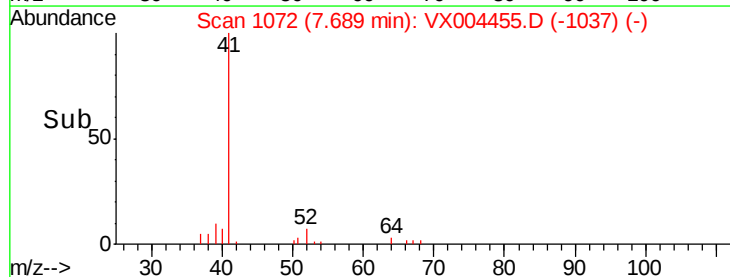
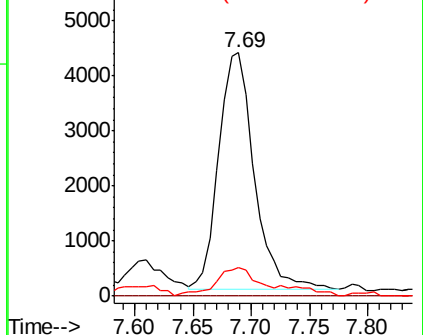
#48

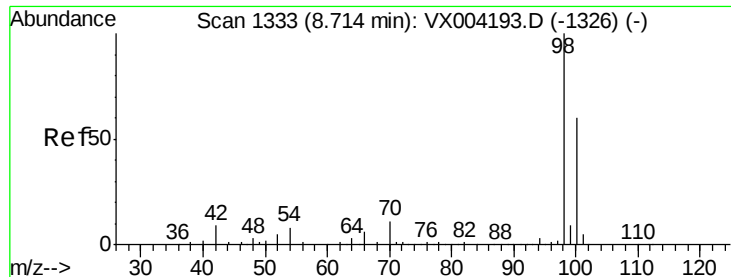
Methyl methacrylate
 Concen: 2.05 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

Tgt Ion	41	Resp	9077
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	14.0	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: 51.71 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

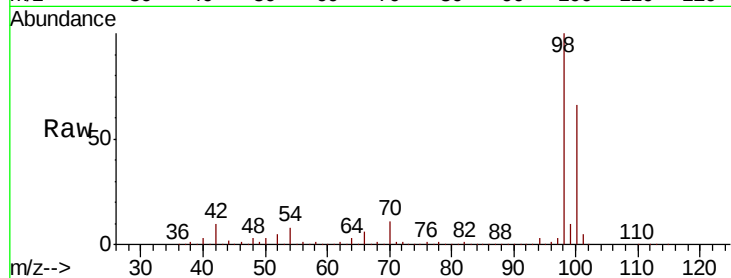
PB112704ZHE#12

Tot Ion: 98 Resp: 707031

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

300000

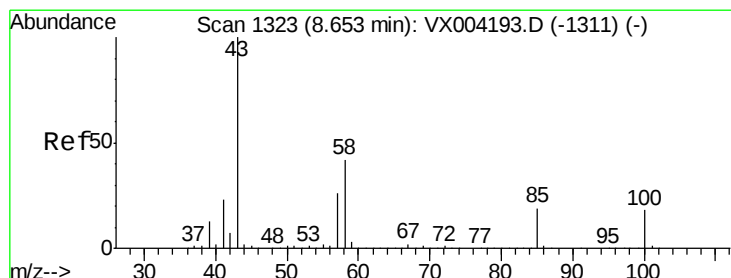
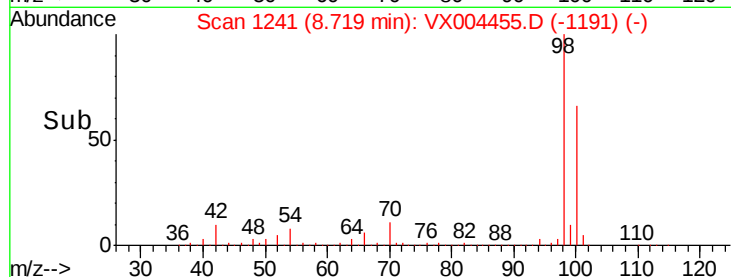
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.54 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX004455.D

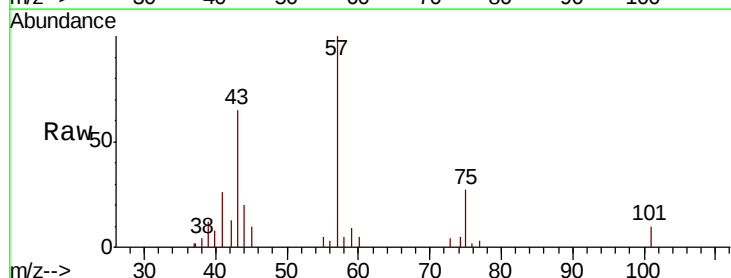
Acq: 10 Sep 2018 18:08

Tgt Ion: 43 Resp: 3262

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

2000

1500

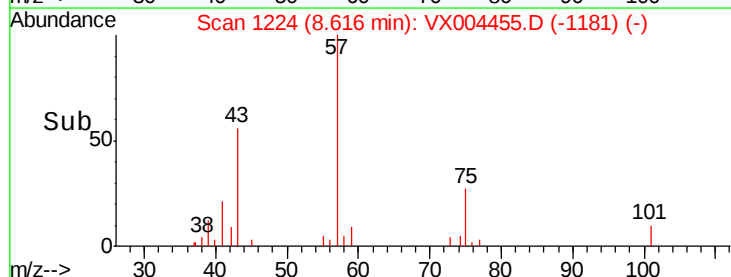
1000

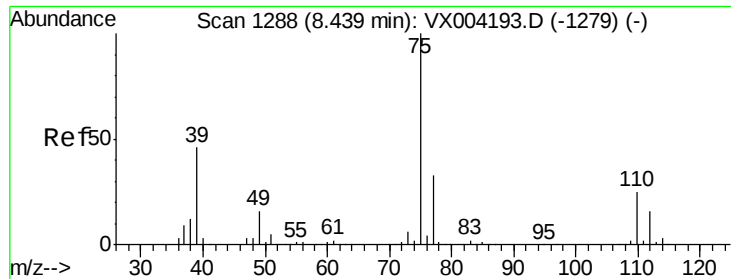
500

0

Time-->

8.60 8.65





#54

cis-1,3-Dichloropropene

Concen: 0.27 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#12

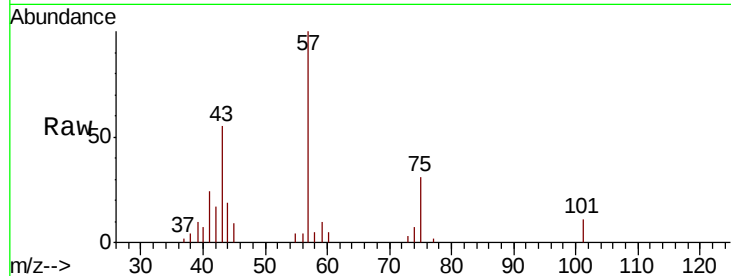
Tot Ion: 75 Resp: 1668

Ion Ratio Lower Upper

75 100

77 7.2 26.2 39.2#

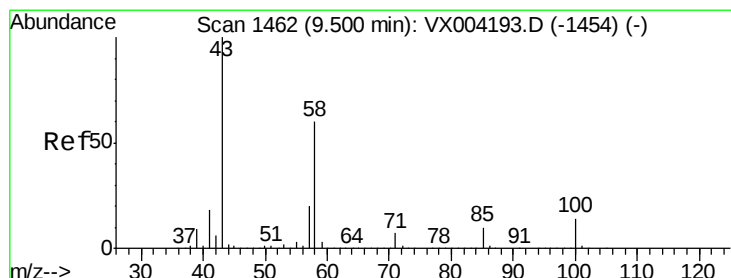
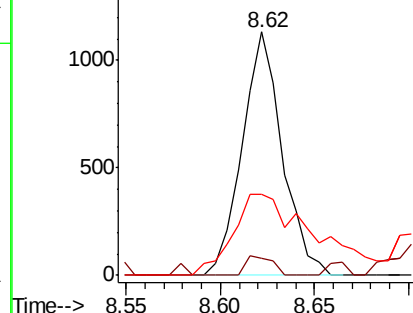
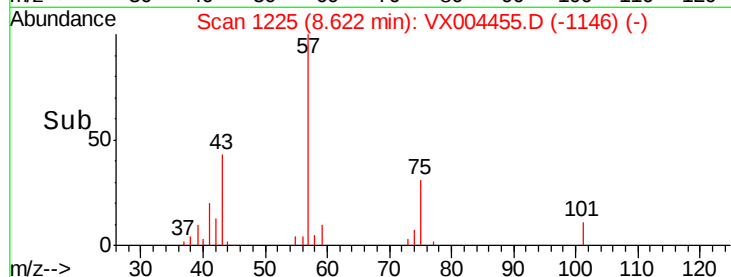
39 33.2 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 3.17 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004455.D

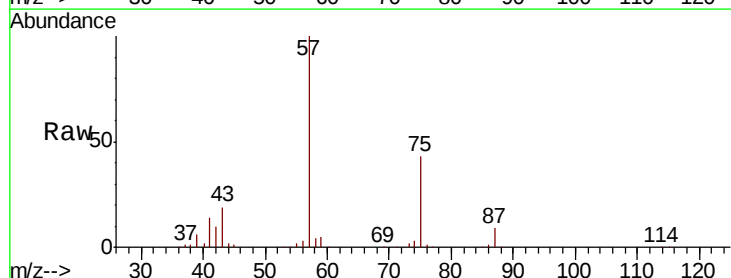
Acq: 10 Sep 2018 18:08

Tgt Ion: 43 Resp: 14528

Ion Ratio Lower Upper

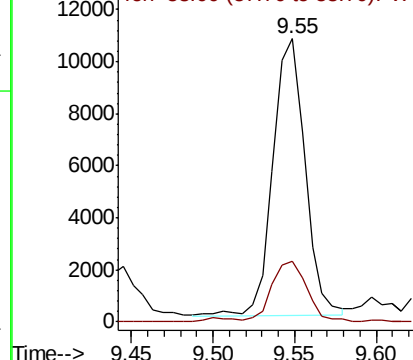
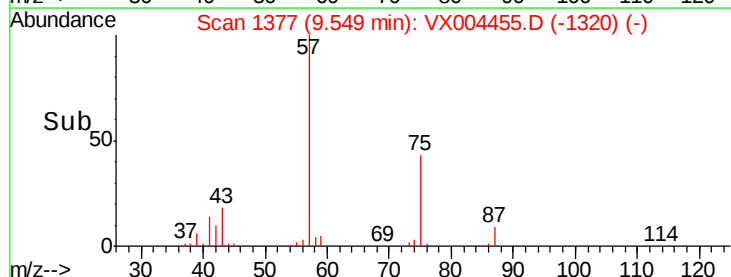
43 100

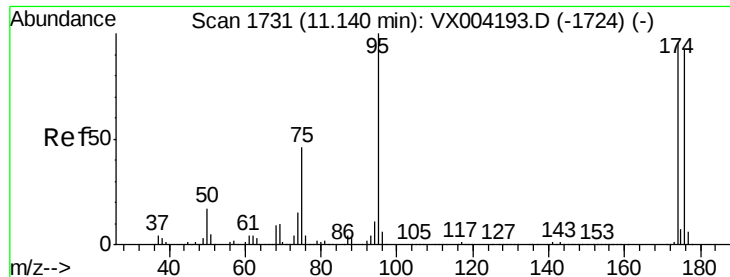
58 23.8 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#12

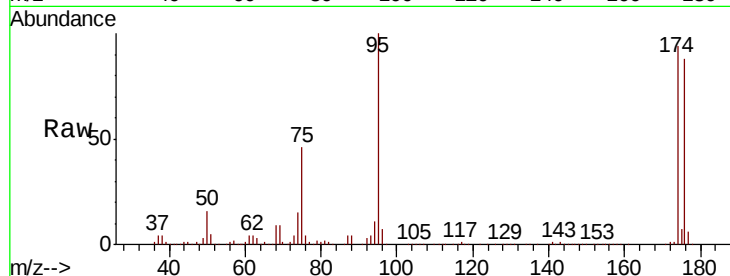
Tot Ion: 95 Resp: 249141

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.2

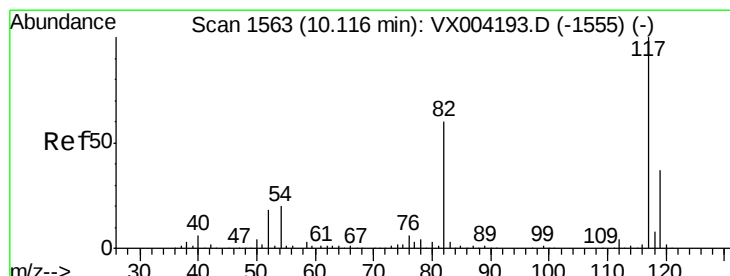
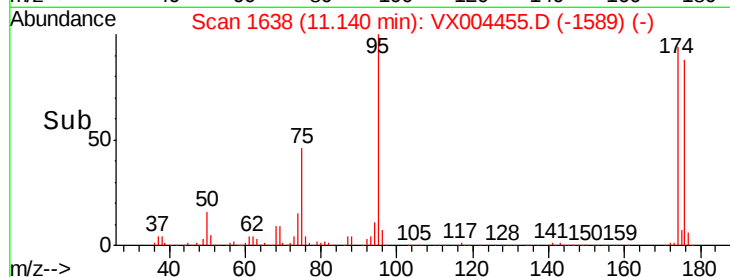
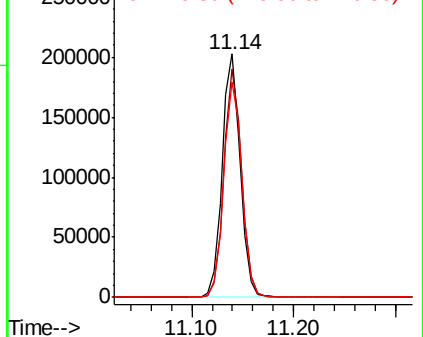
176 89.3 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004455.D

Acq: 10 Sep 2018 18:08

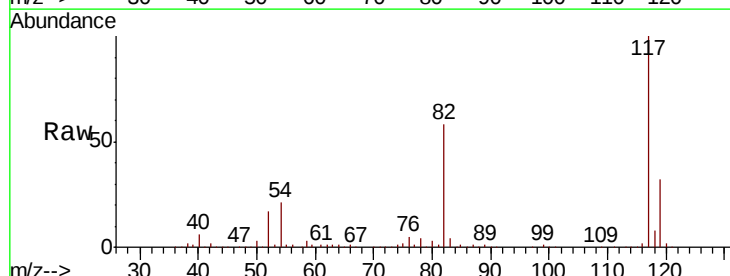
Tgt Ion: 117 Resp: 458586

Ion Ratio Lower Upper

117 100

82 58.0 47.8 71.6

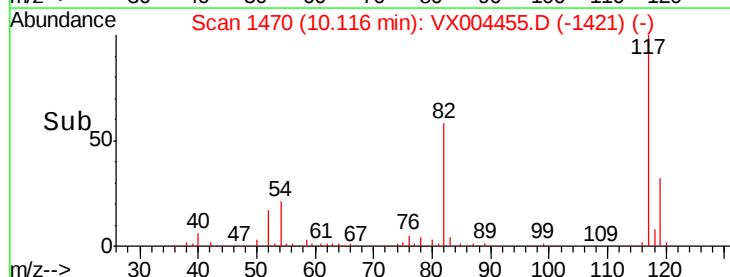
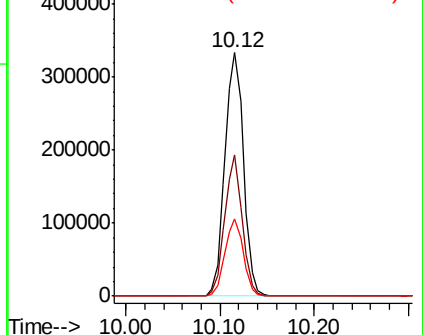
119 31.8 29.3 43.9

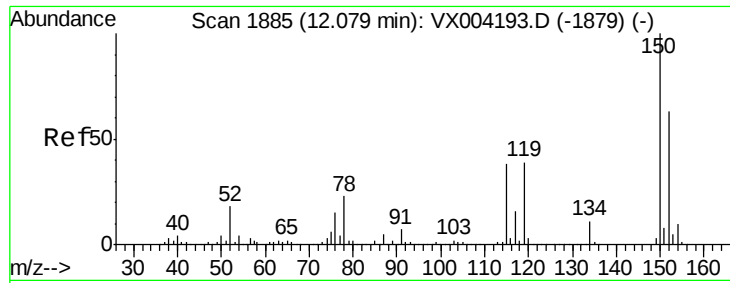


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX004455.D

Acq: 10 Sep 2018 18:08

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#12

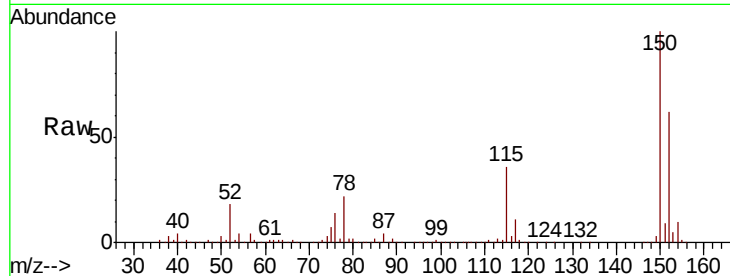
Tot Ion:152 Resp: 261254

Ion Ratio Lower Upper

152 100

115 55.1 39.0 117.0

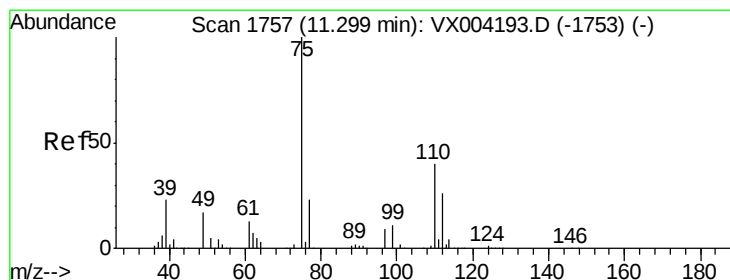
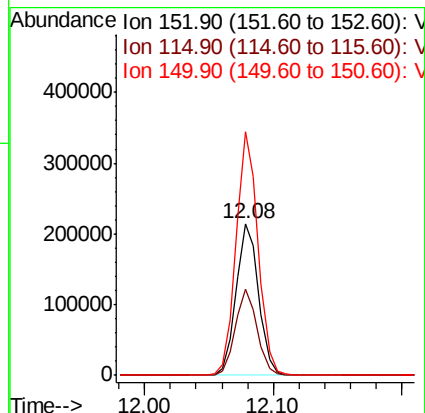
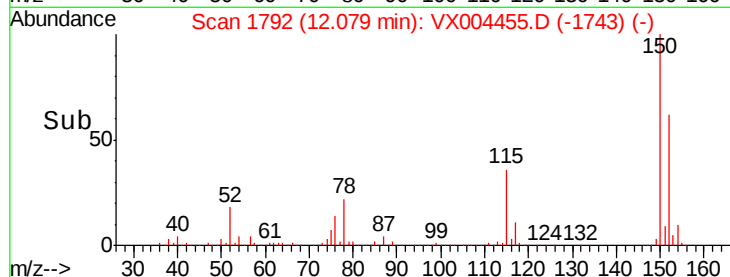
150 156.8 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.78 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004455.D

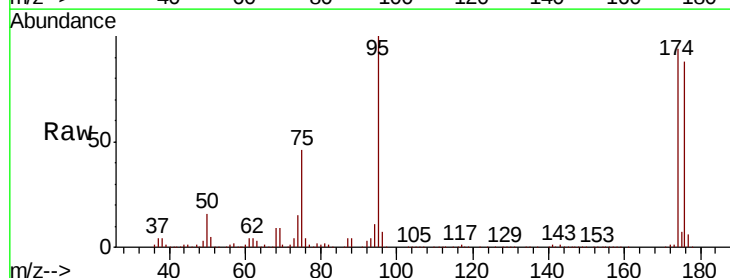
Acq: 10 Sep 2018 18:08

Tgt Ion: 75 Resp: 115741

Ion Ratio Lower Upper

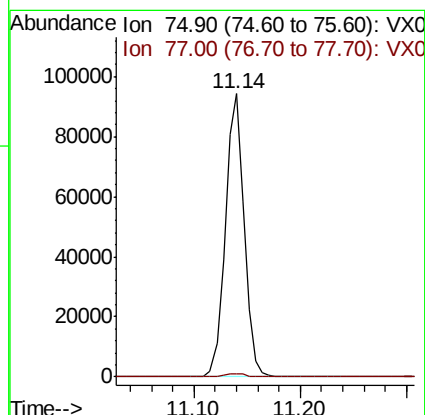
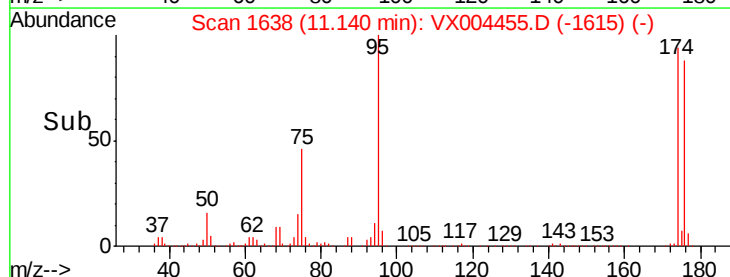
75 100

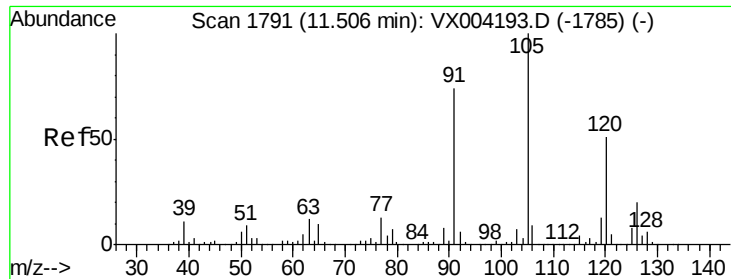
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

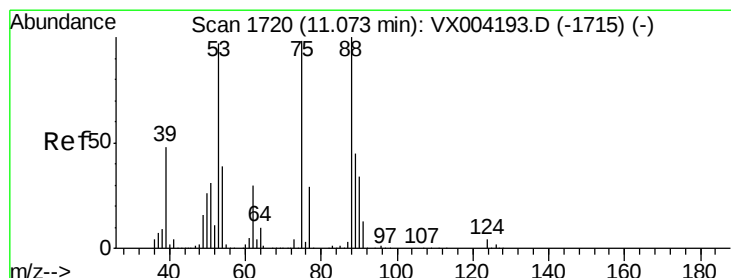
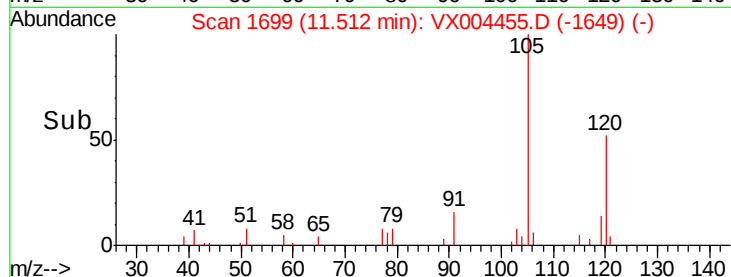
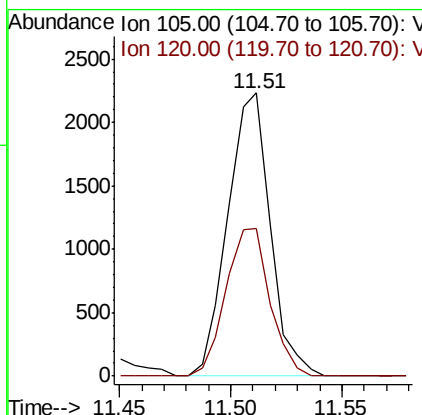
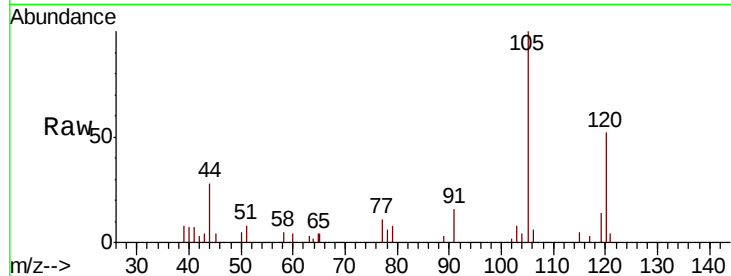




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.51 min Scan# 1699
 Delta R.T. 0.01 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#12

Tot Ion:105 Resp: 2965
 Ion Ratio Lower Upper
 105 100
 120 54.0 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.68 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004455.D
 Acq: 10 Sep 2018 18:08

Tgt Ion: 75 Resp: 115741
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

