

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110518\
 Data File : VX005792.D
 Acq On : 05 Nov 2018 21:24
 Operator : JC/MD
 Sample : J5812-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 00:48:41 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

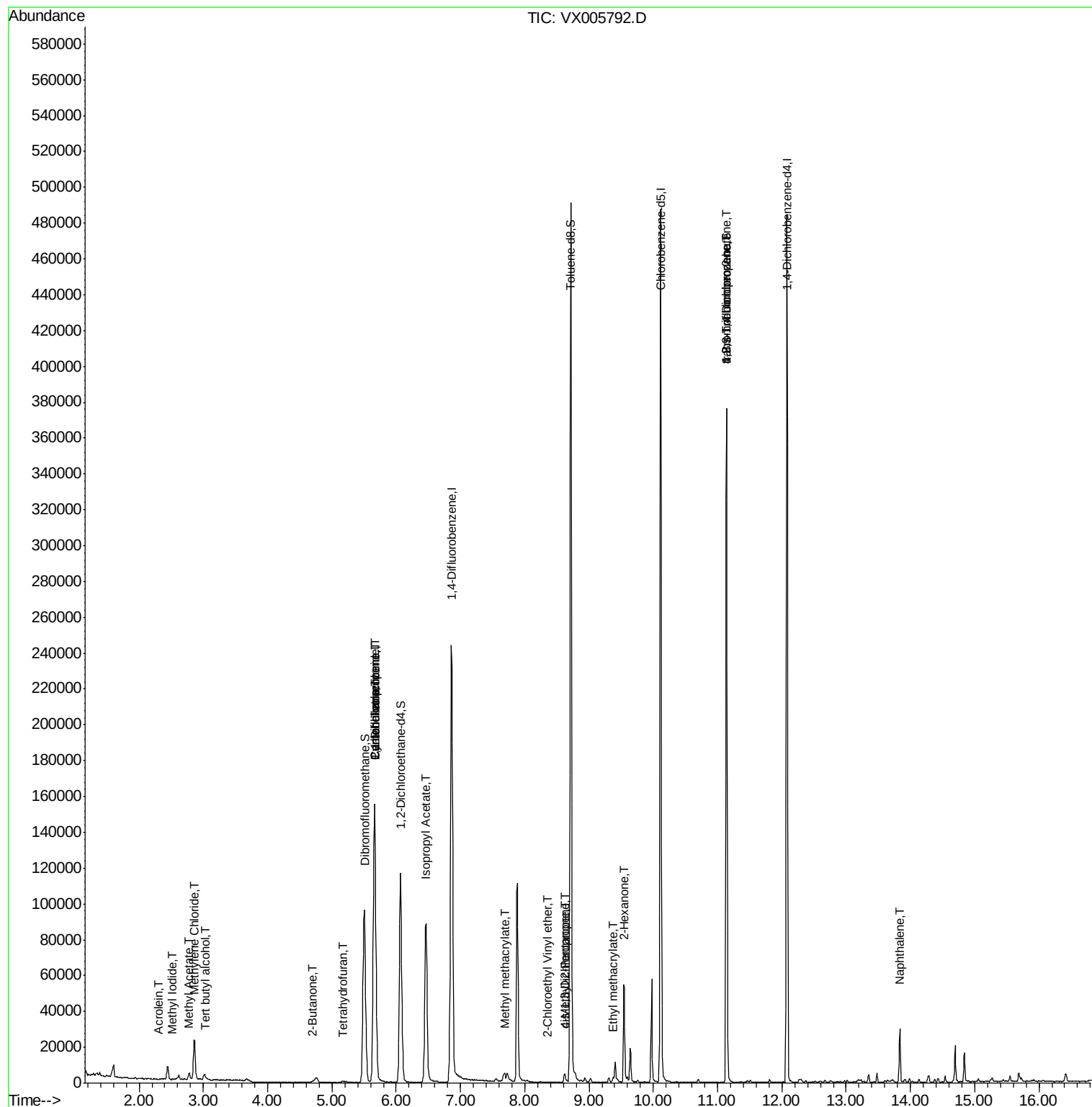
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	145273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	245570	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	217769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	94361	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	110422	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
35) Dibromofluoromethane	5.50	113	84398	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
50) Toluene-d8	8.71	98	300433	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
62) 4-Bromofluorobenzene	11.14	95	94775	43.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.12%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.76	64	42	Below Cal	#	42
10) Methyl Iodide	2.52	142	23	1.954	ug/l #	39
11) Tert butyl alcohol	3.03	59	2636	4.570	ug/l #	80
13) Acrolein	2.31	56	41	12.277	ug/l #	14
16) Acetone	2.45	43	7432	Below Cal		91
18) Methyl Acetate	2.78	43	4892	1.605	ug/l	99
20) Methylene Chloride	2.85	84	10153	5.543	ug/l	99
25) 2-Butanone	4.70	43	1749	0.976	ug/l #	90
29) Tetrahydrofuran	5.17	42	513	0.469	ug/l #	75
31) Cyclohexane	5.67	56	3577	1.260	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12220	4.671	ug/l #	49
38) Carbon Tetrachloride	5.66	117	14190	6.003	ug/l #	17
43) Isopropyl Acetate	6.46	43	119723	24.712	ug/l	97
48) Methyl methacrylate	7.69	41	4587	1.956	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2146	0.650	ug/l #	81
54) cis-1,3-Dichloropropene	8.62	75	871	0.314	ug/l #	58
56) Ethyl methacrylate	9.38	69	48	2.486	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.35	63	27	10.353	ug/l #	48
59) 2-Hexanone	9.54	43	6054	2.252	ug/l	65
76) 1,2,3-Trichloropropane	11.14	75	49613	21.110	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	49613	68.206	ug/l #	9
95) Naphthalene	13.83	128	17306	2.630	ug/l	98

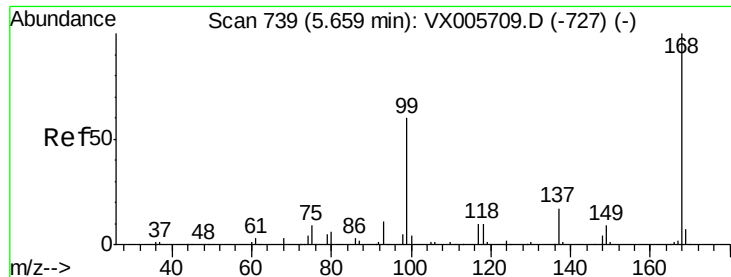
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

Instrument :

MSVOA_X

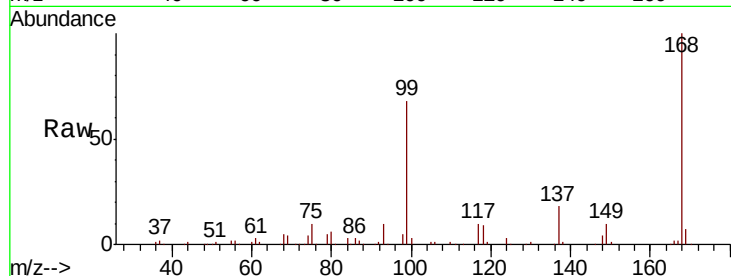
ClientSampleId :

Tot Ion:168 Resp: 145273

Ion Ratio Lower Upper

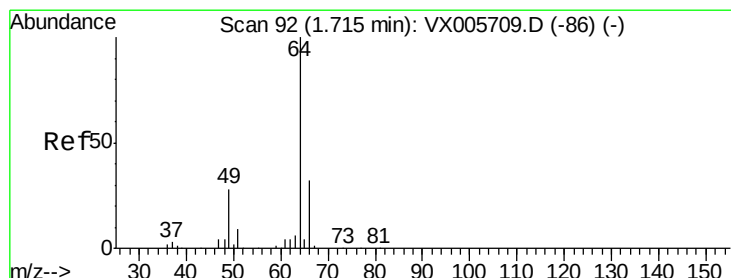
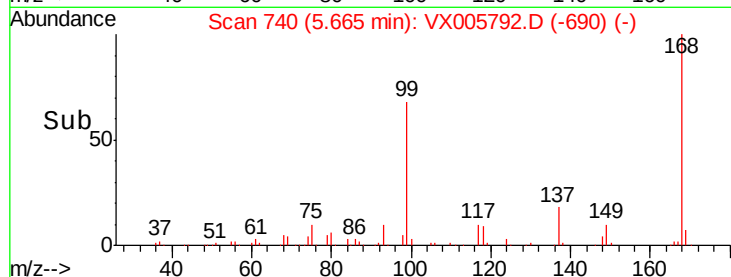
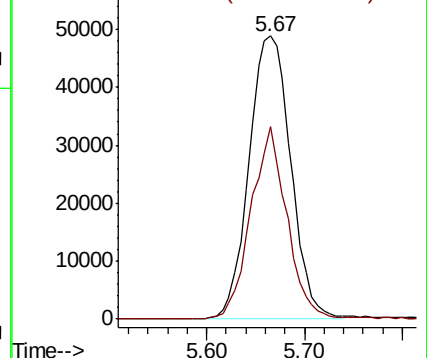
168 100

99 67.9 40.7 61.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX005792.D

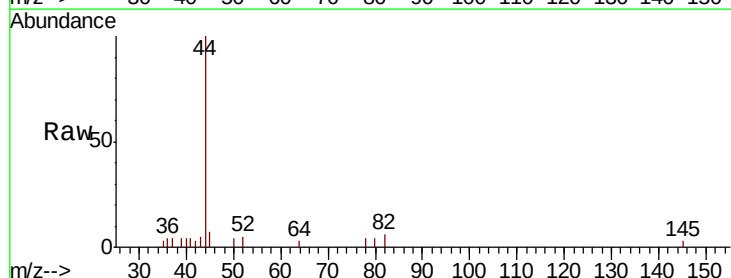
Acq: 05 Nov 2018 21:24

Tgt Ion: 64 Resp: 42

Ion Ratio Lower Upper

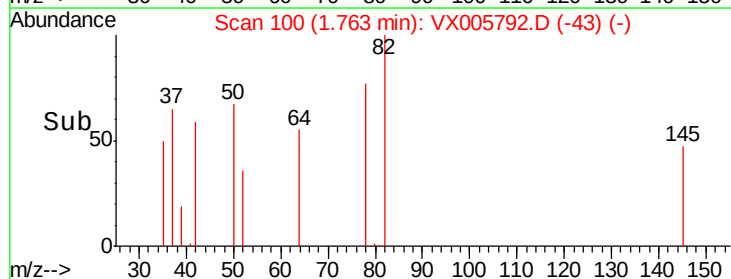
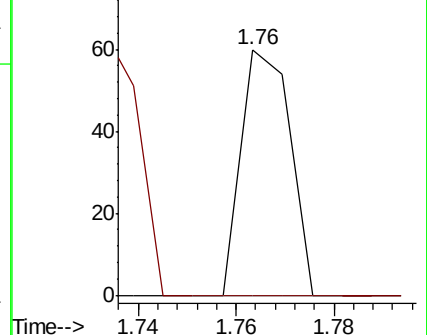
64 100

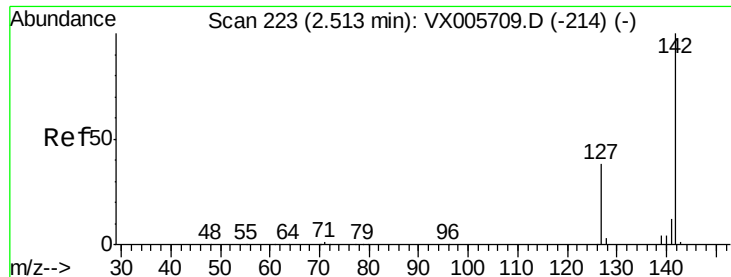
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

80 Ion 65.90 (65.60 to 66.60): VX0

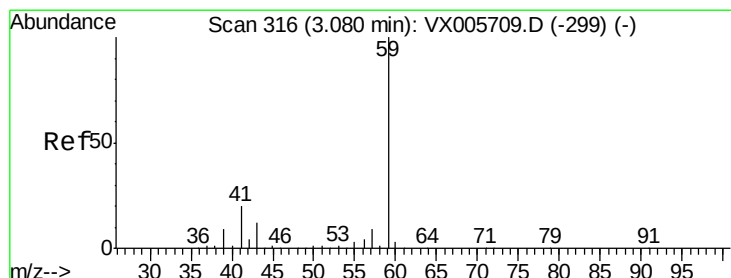
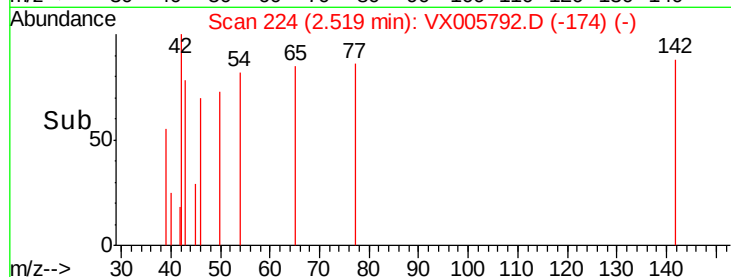
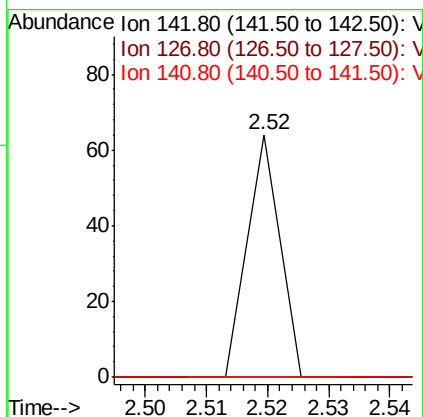
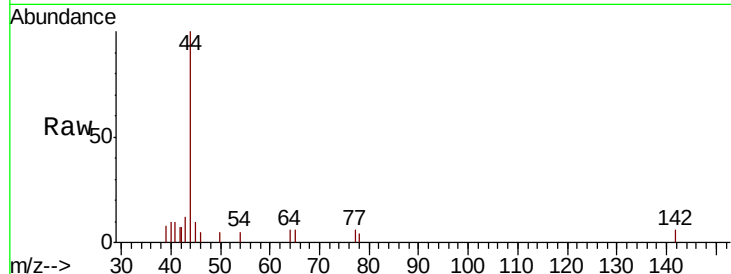




#10
Methyl Iodide
Concen: 1.954 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

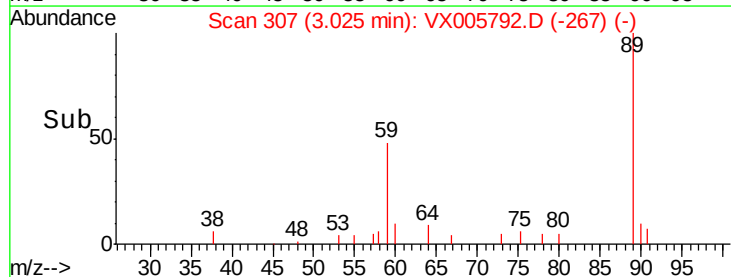
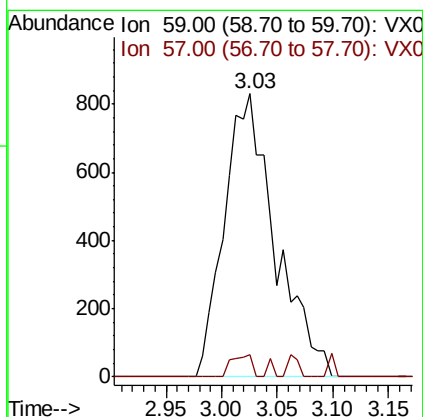
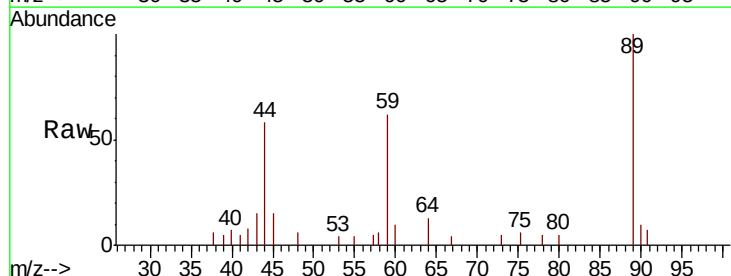
Instrument :
MSVOA_X
ClientSampleId :

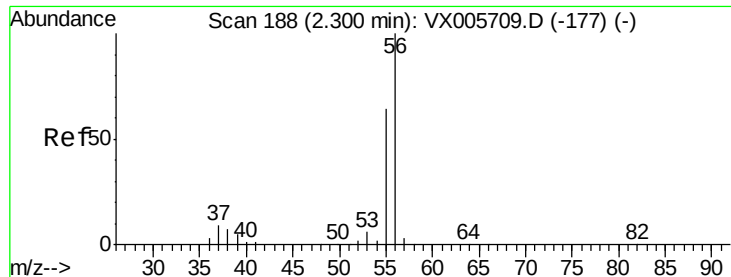
Tot Ion:142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 36.0 54.0#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 4.570 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.06 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Tgt Ion: 59 Resp: 2636
Ion Ratio Lower Upper
59 100
57 3.1 8.5 12.7#





#13

Acrolein

Concen: 12.277 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

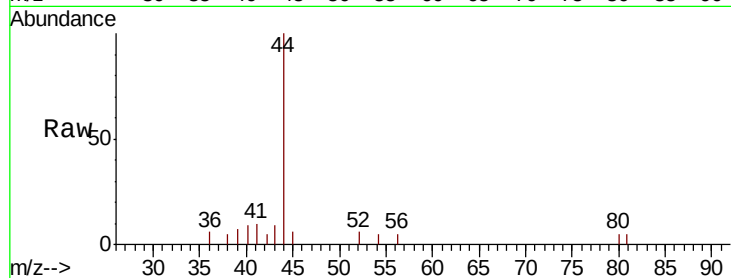
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 41

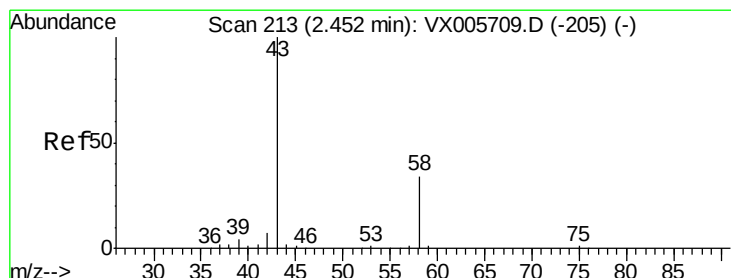
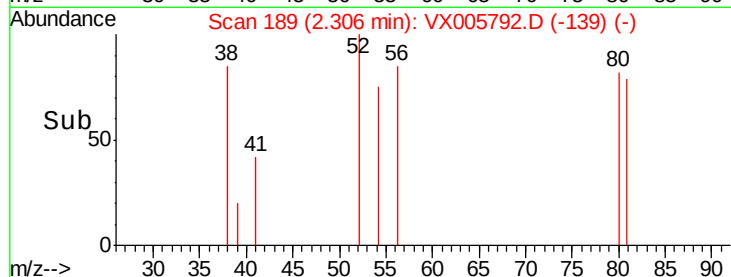
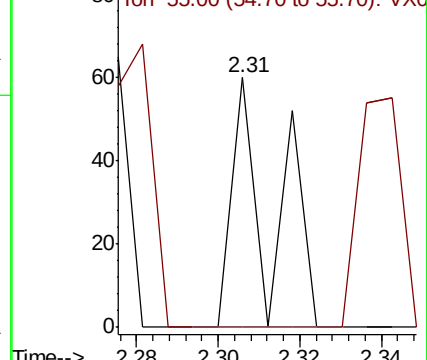
Ion Ratio Lower Upper

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: VX005792.D

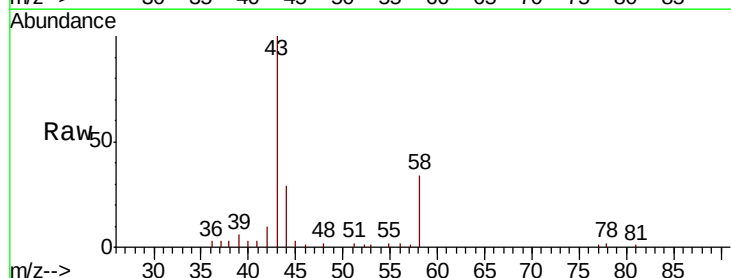
Acq: 05 Nov 2018 21:24

Tgt Ion: 43 Resp: 7432

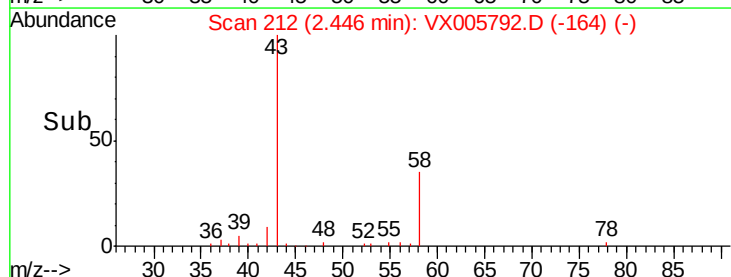
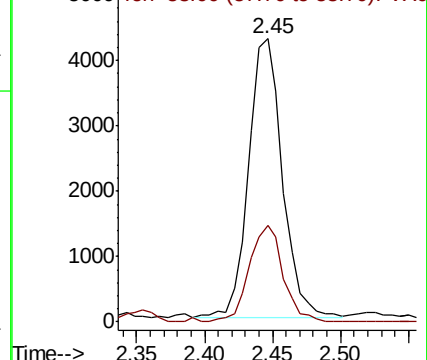
Ion Ratio Lower Upper

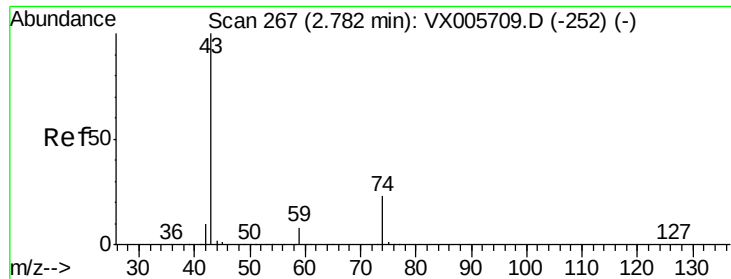
43 100

58 34.7 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

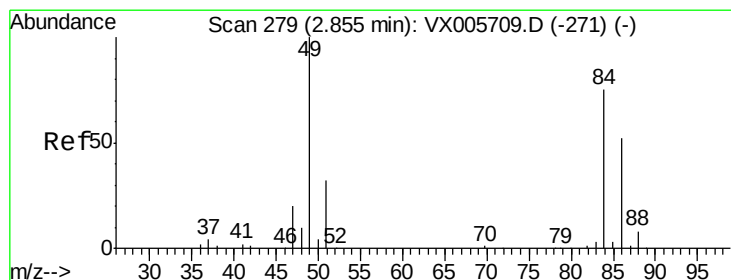
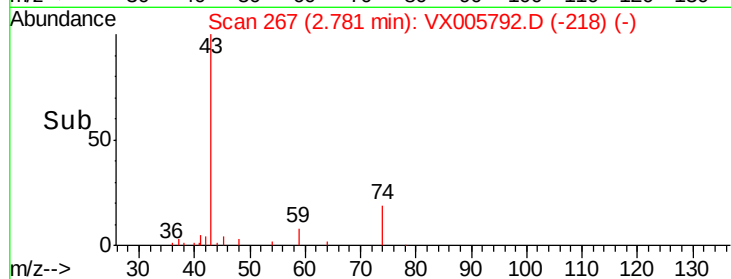
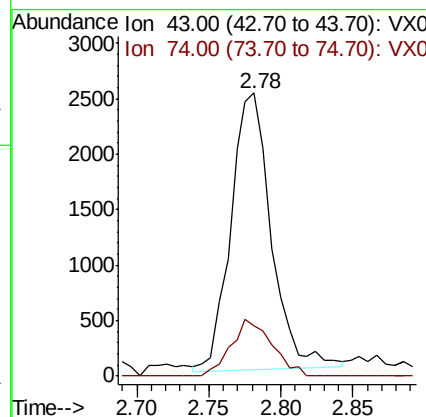
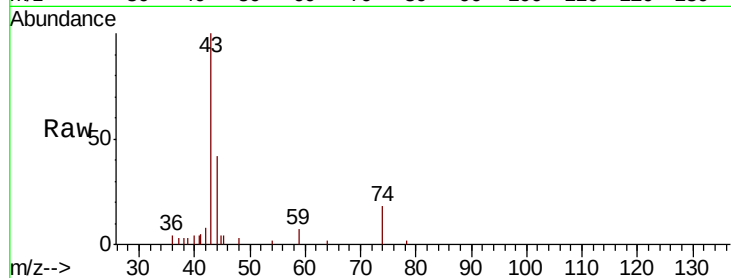




#18
Methvl Acetate
Concen: 1.605 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

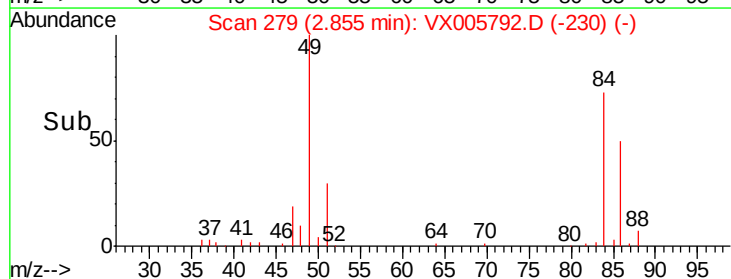
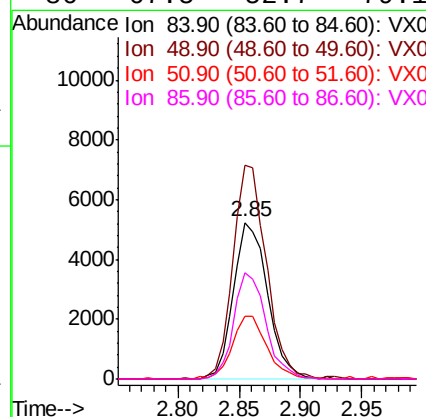
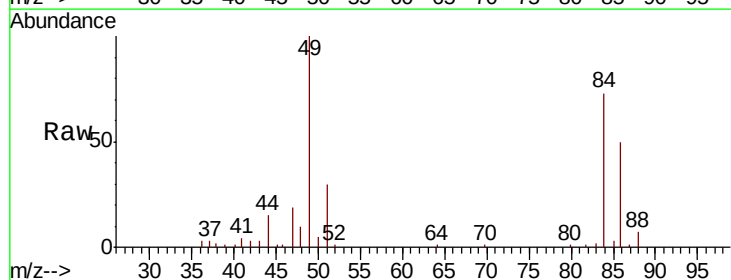
Instrument :
MSVOA_X
ClientSampleId :

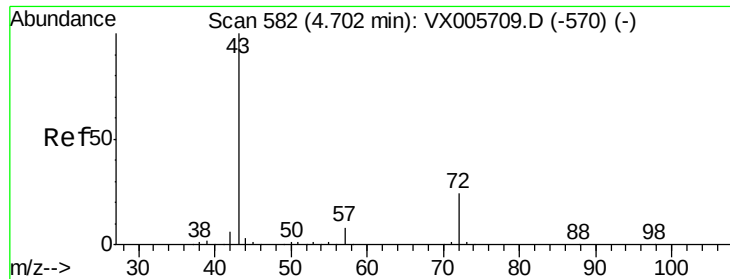
Tot Ion: 43 Resp: 4892
Ion Ratio Lower Upper
43 100
74 20.7 16.8 25.2



#20
Methylene Chloride
Concen: 5.543 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Tgt Ion: 84 Resp: 10153
Ion Ratio Lower Upper
84 100
49 136.2 109.5 164.3
51 40.3 33.3 49.9
86 67.5 52.7 79.1





#25

2-Butanone

Concen: 0.976 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

Instrument :

MSVOA_X

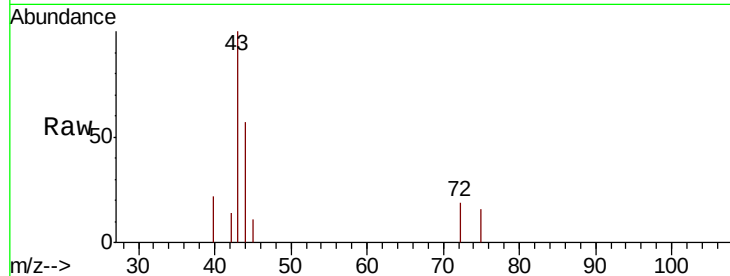
ClientSampled :

Tot Ion: 43 Resp: 1749

Ion Ratio Lower Upper

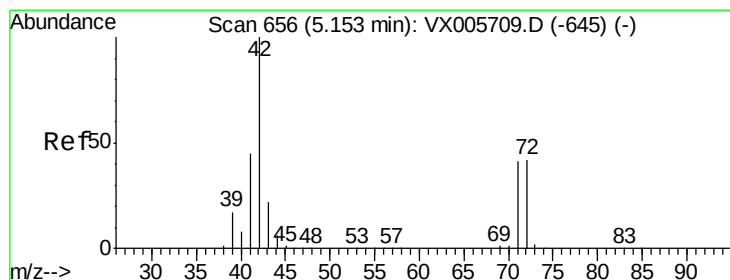
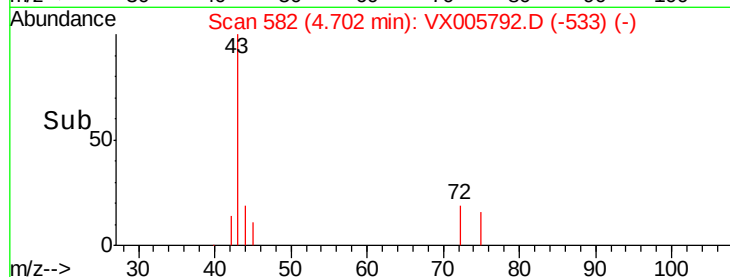
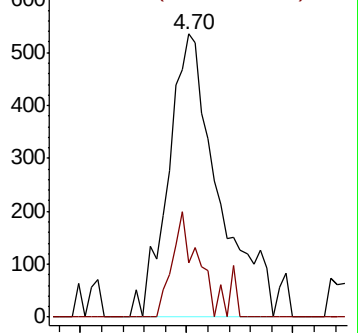
43 100

72 19.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.469 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

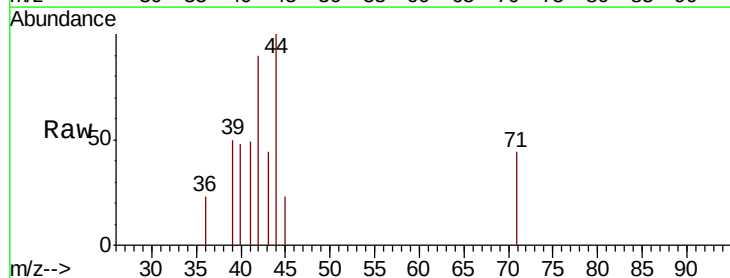
Tgt Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

72 10.1 32.0 48.0#

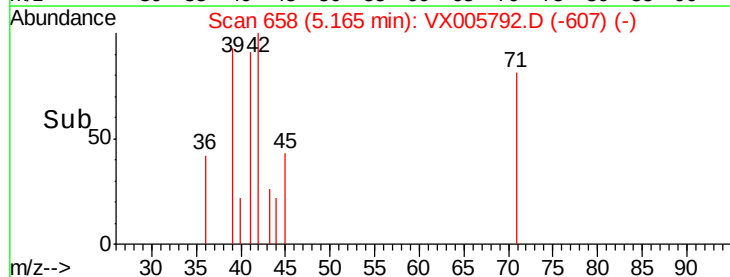
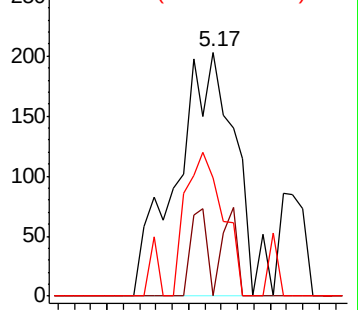
71 37.8 29.8 44.8

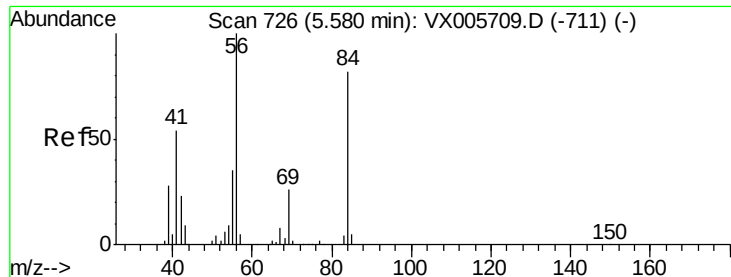


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

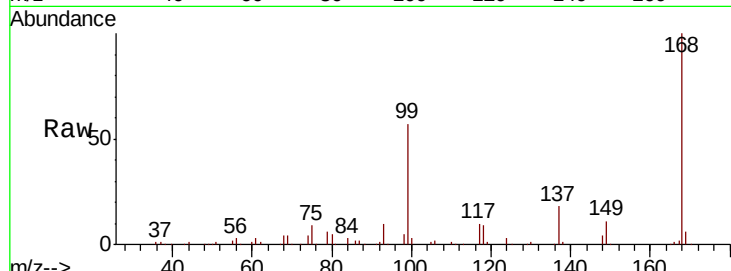




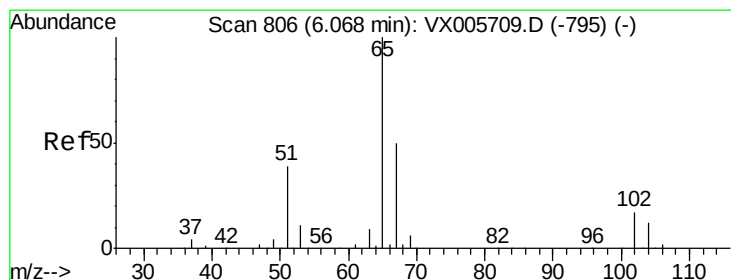
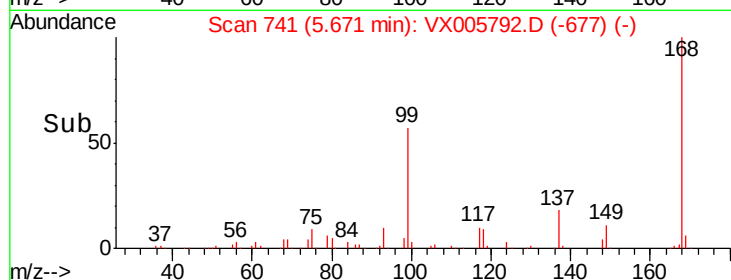
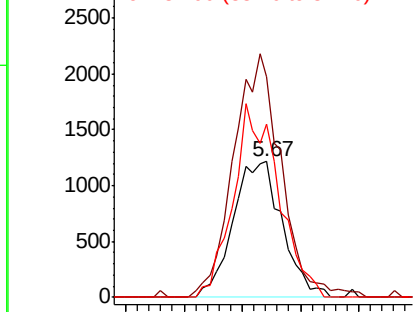
#31
Cyclohexane
Concen: 1.260 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.09 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3577
Ion Ratio Lower Upper
56 100
69 162.6 22.6 34.0#
84 128.0 62.7 94.1#

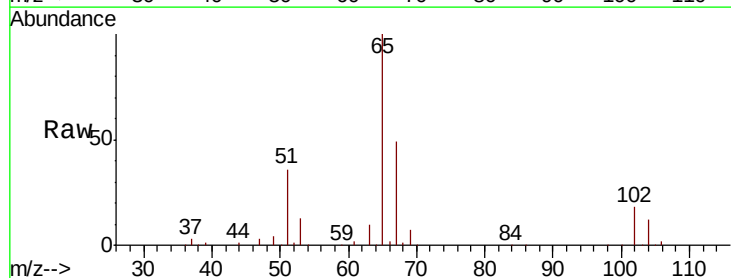


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

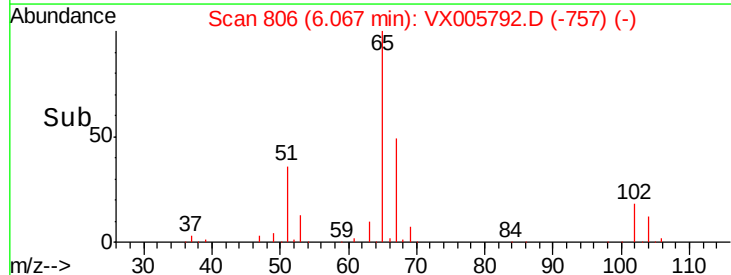
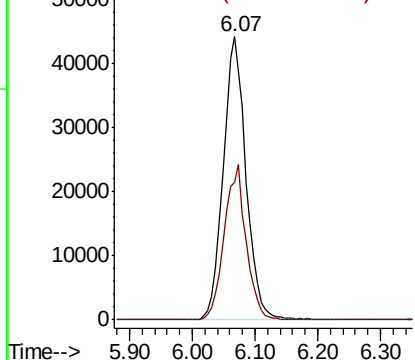


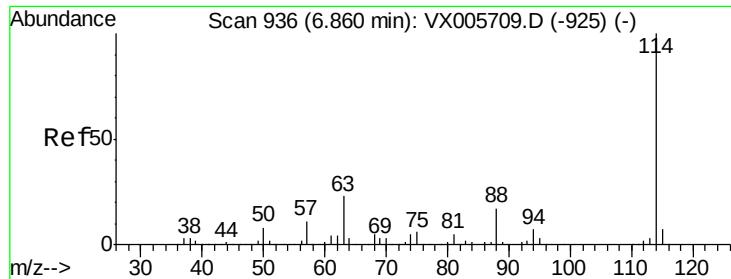
#33
1,2-Dichloroethane-d4
Concen: 51.990 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Tgt Ion: 65 Resp: 110422
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.0



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

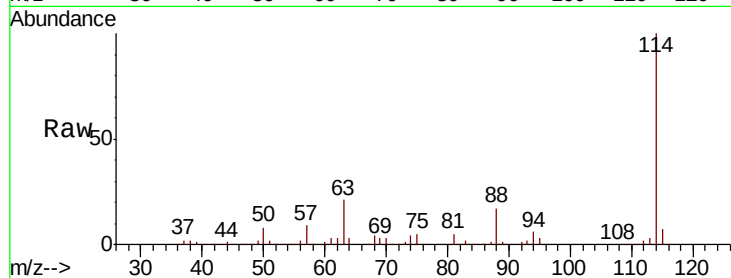




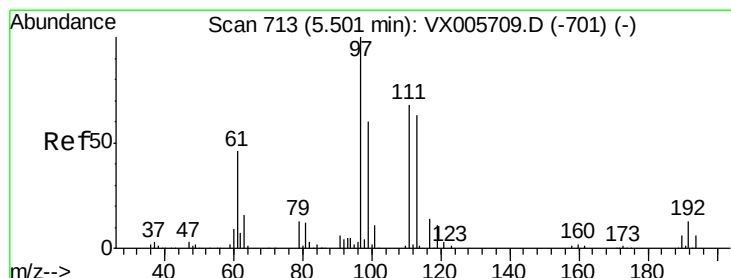
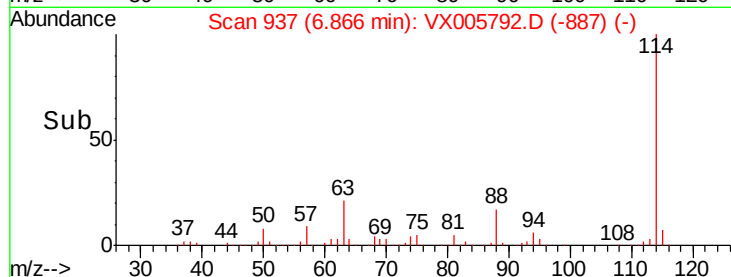
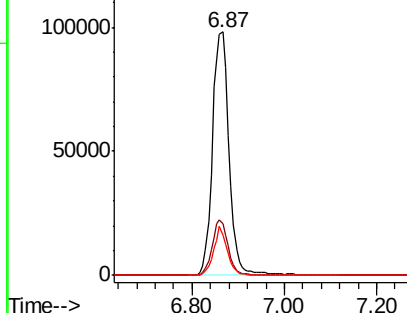
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 245570
Ion Ratio Lower Upper
114 100
63 21.3 0.0 42.8
88 16.6 0.0 31.2

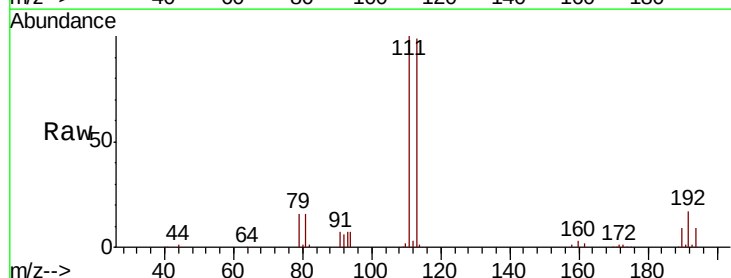


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

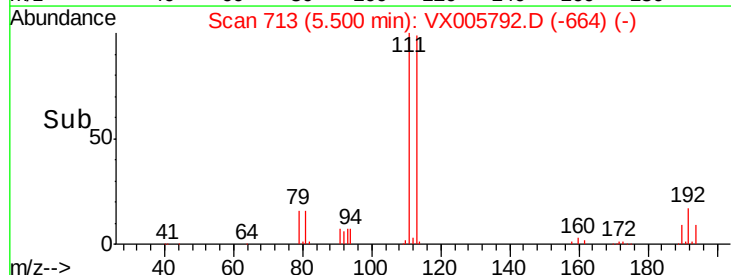
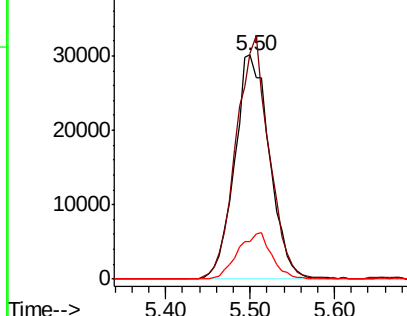


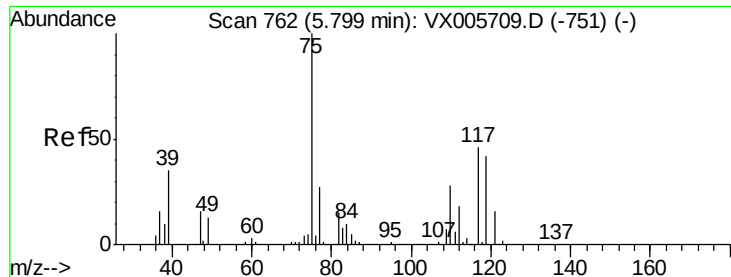
#35
Dibromofluoromethane
Concen: 49.636 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Tgt Ion:113 Resp: 84398
Ion Ratio Lower Upper
113 100
111 102.5 82.3 123.5
192 20.0 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

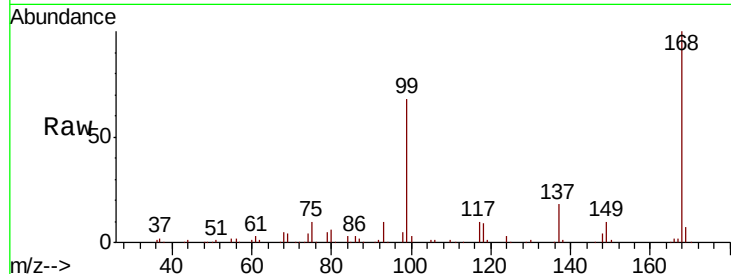




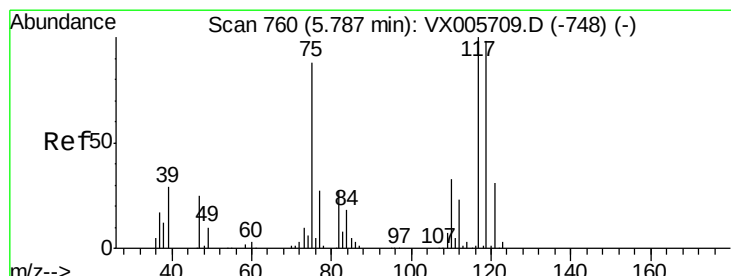
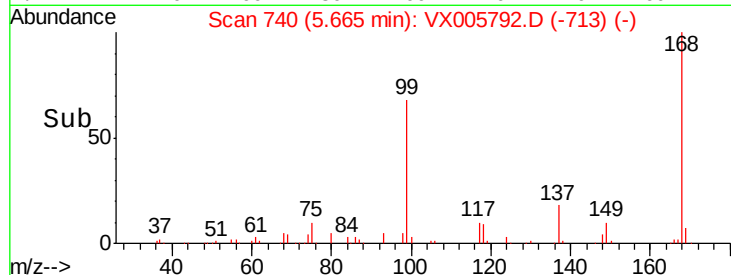
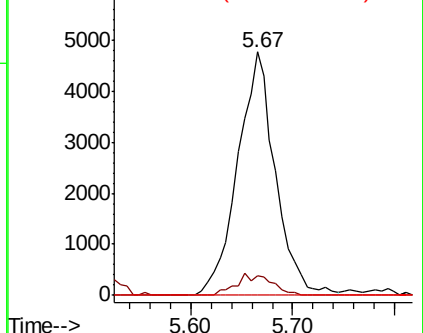
#36
 1,1-Dichloropropene
 Concen: 4.671 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	12220
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	17.4	52.2#
77	0.0	25.8	38.6#

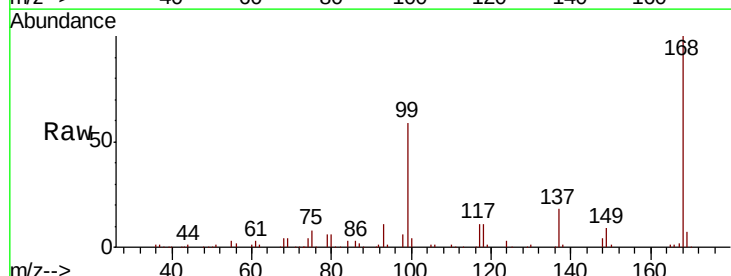


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

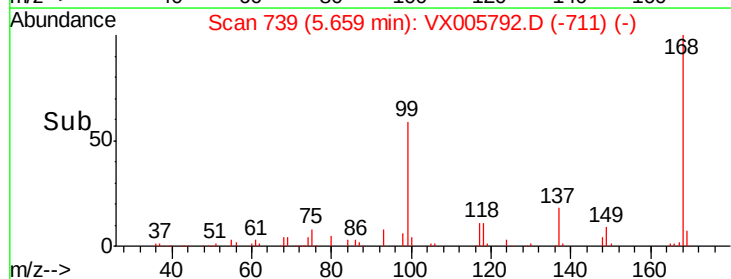
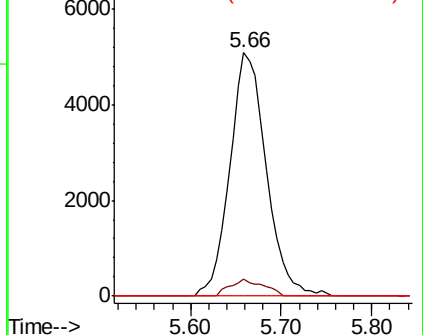


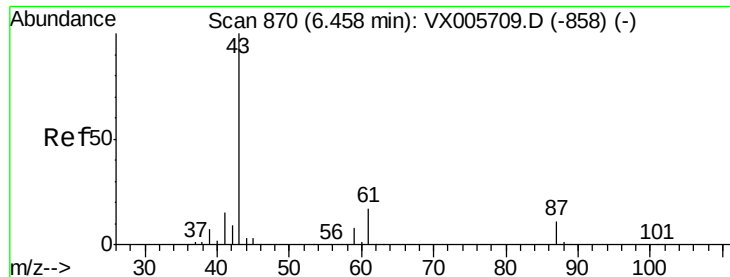
#38
 Carbon Tetrachloride
 Concen: 6.003 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Tgt Ion	117	Resp	14190
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	7.1	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



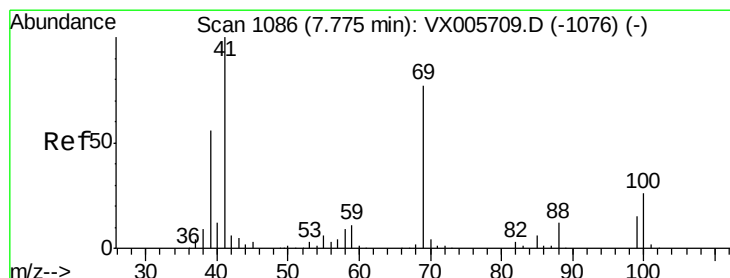
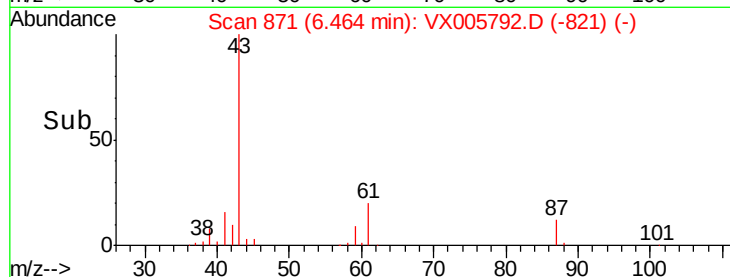
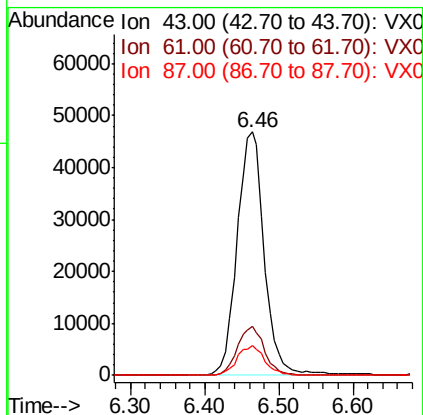
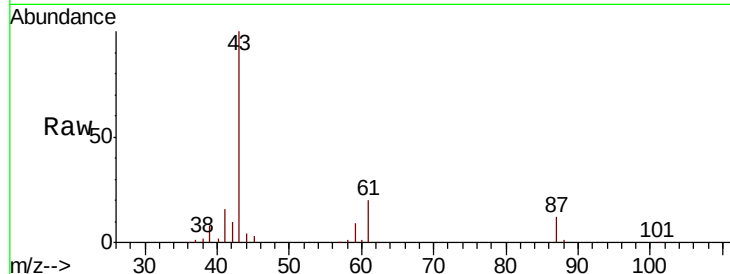


#43

Isopropyl Acetate
 Concen: 24.712 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Instrument :
 MSVOA_X
 ClientSampleId :

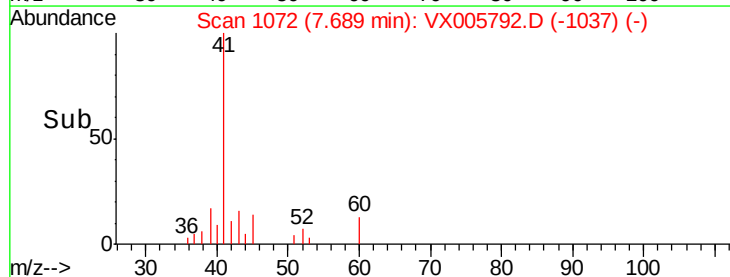
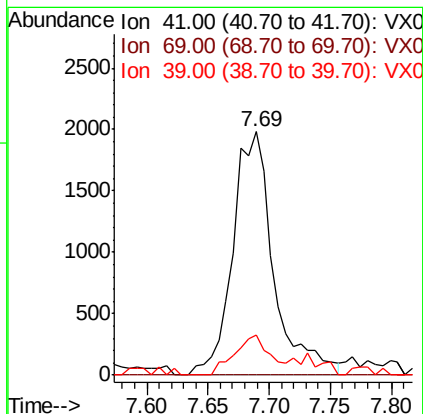
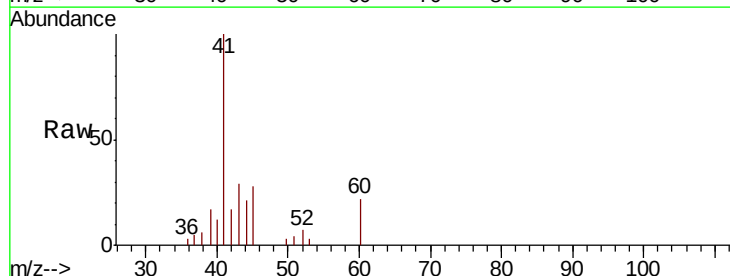
Tot Ion: 43 Resp: 119723
 Ion Ratio Lower Upper
 43 100
 61 20.0 14.6 22.0
 87 12.3 9.6 14.4

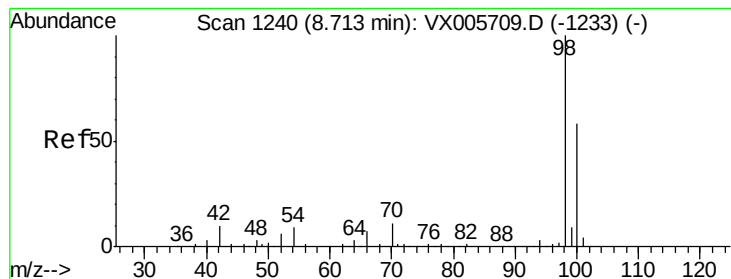


#48

Methyl methacrylate
 Concen: 1.956 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Tgt Ion: 41 Resp: 4587
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.2 94.8#
 39 14.4 42.2 63.2#





#50

Toluene-d8

Concen: 50.377 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

Instrument :

MSVOA_X

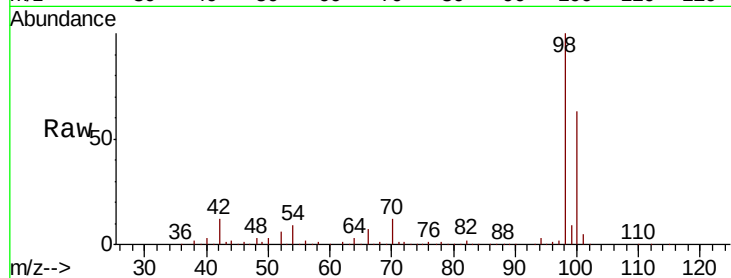
ClientSampled :

Tot Ion: 98 Resp: 300433

Ion Ratio Lower Upper

98 100

100 61.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

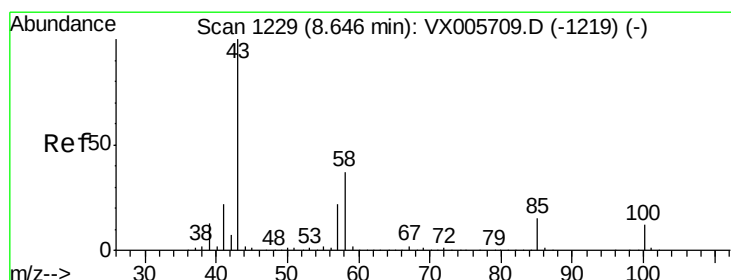
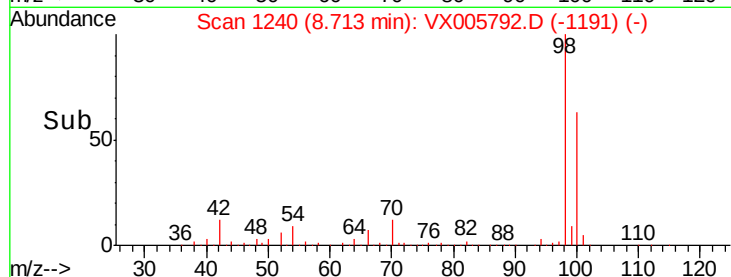
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.650 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005792.D

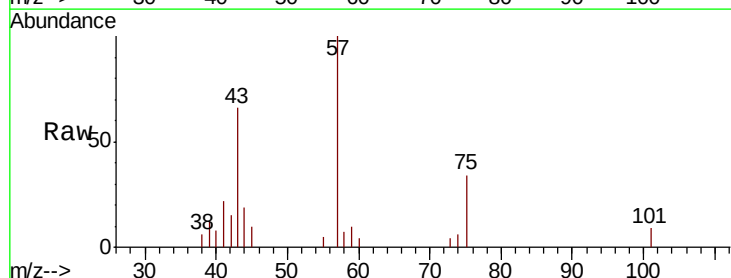
Acq: 05 Nov 2018 21:24

Tgt Ion: 43 Resp: 2146

Ion Ratio Lower Upper

43 100

58 26.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

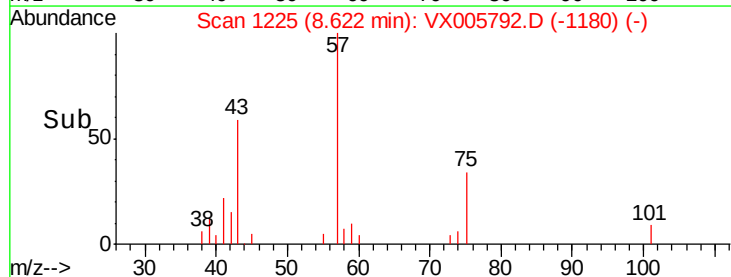
1500

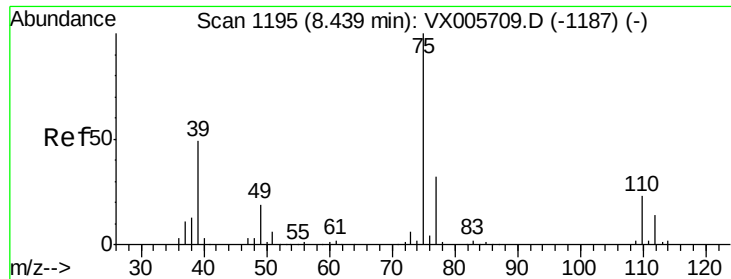
1000

500

0

Time-->



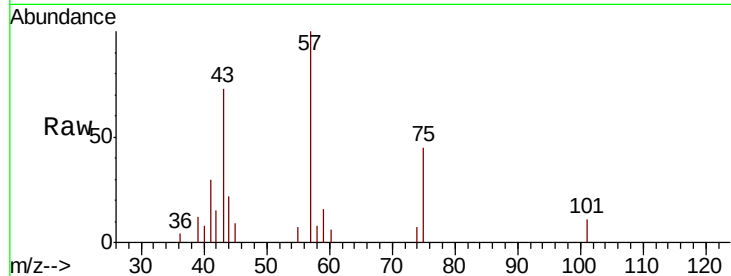


#54

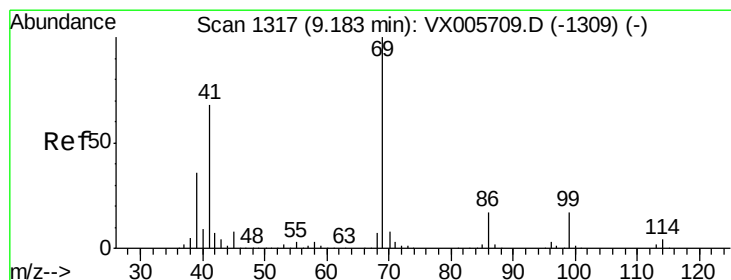
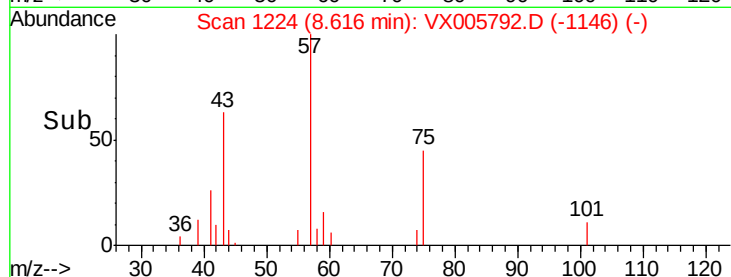
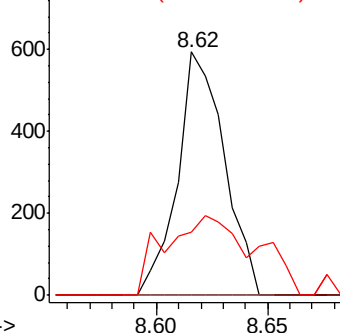
cis-1,3-Dichloropropene
 Concen: 0.314 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 871
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.9 38.2 57.2#



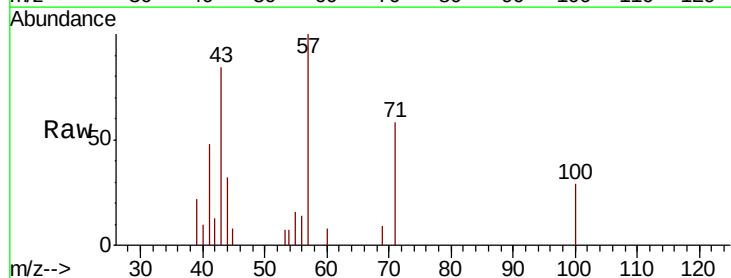
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



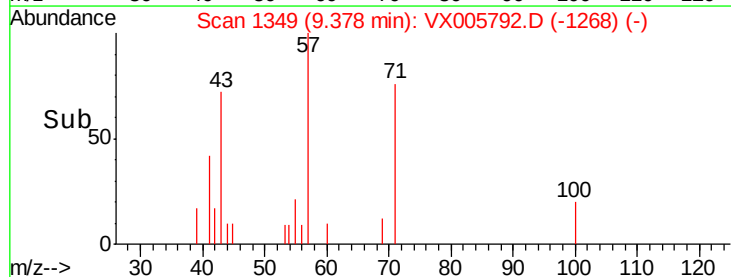
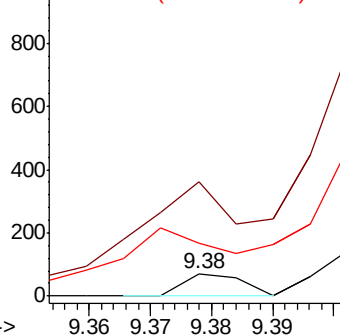
#56

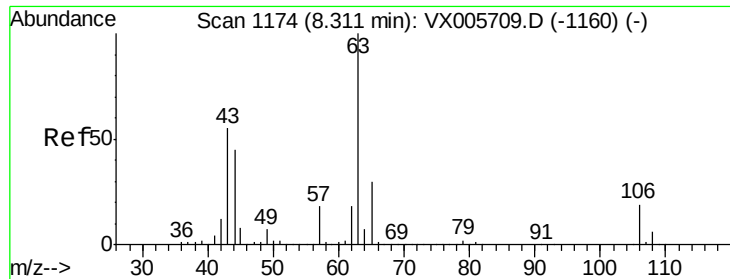
Ethyl methacrylate
 Concen: 2.486 ug/l
 RT: 9.38 min Scan# 1349
 Delta R.T. 0.20 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Tgt Ion: 69 Resp: 48
 Ion Ratio Lower Upper
 69 100
 41 914.6 57.0 85.6#
 39 585.4 28.3 42.5#



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

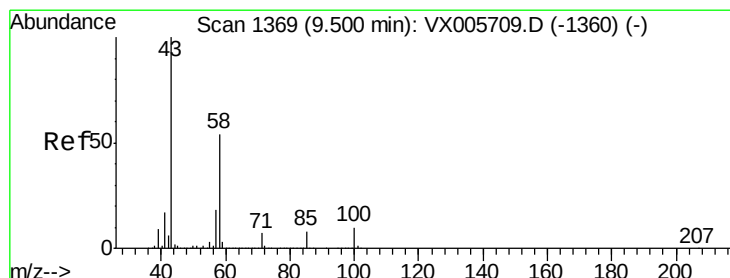
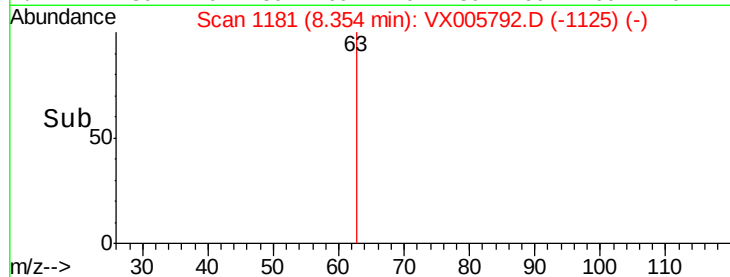
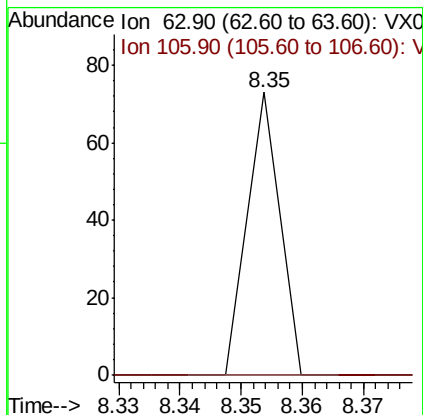
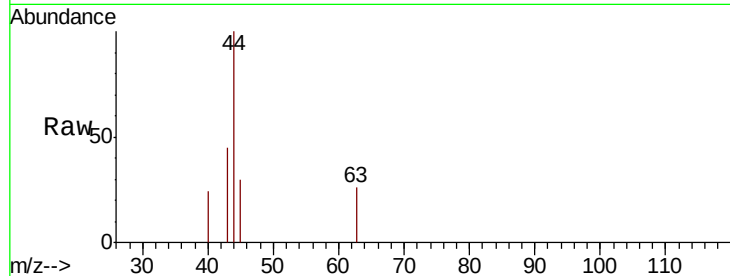




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.353 ug/l
 RT: 8.35 min Scan# 1181
 Delta R.T. 0.04 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

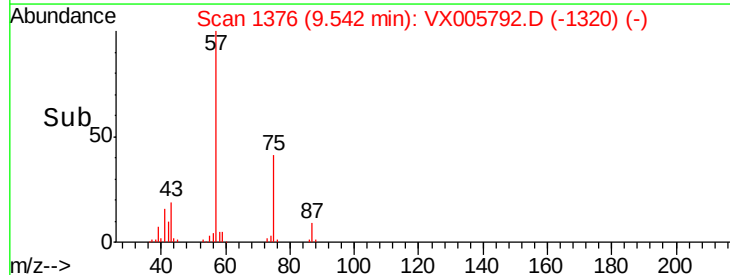
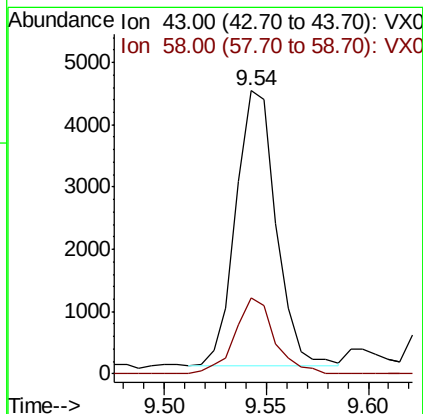
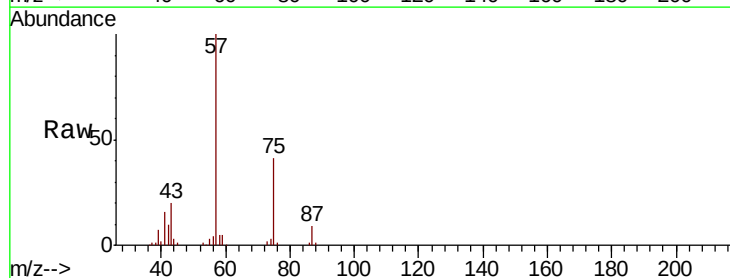
Instrument :
 MSVOA_X
 ClientSampleId :

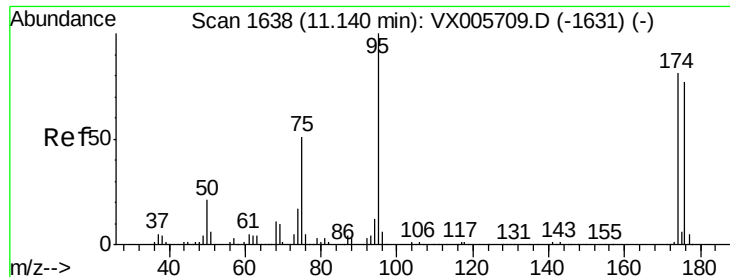
Tot Ion: 63 Resp: 27
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.3 31.9#



#59
 2-Hexanone
 Concen: 2.252 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX005792.D
 Acq: 05 Nov 2018 21:24

Tgt Ion: 43 Resp: 6054
 Ion Ratio Lower Upper
 43 100
 58 27.2 25.9 77.8





#62

4-Bromofluorobenzene

Concen: 43.060 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

Instrument :

MSVOA_X

ClientSampleId :

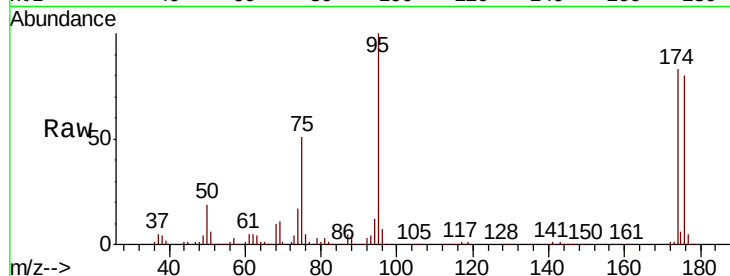
Tot Ion: 95 Resp: 94775

Ion Ratio Lower Upper

95 100

174 80.2 0.0 184.4

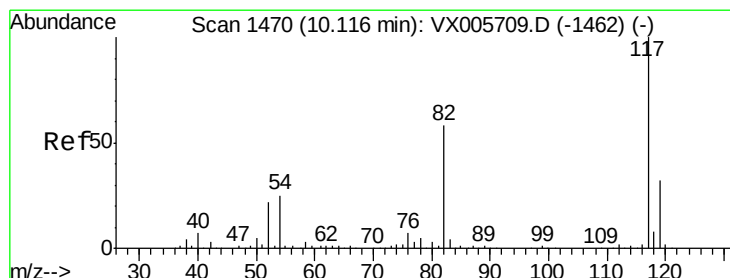
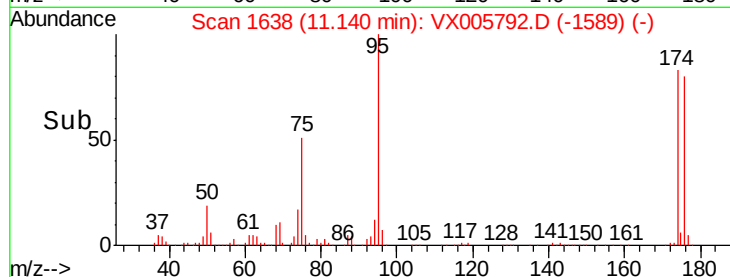
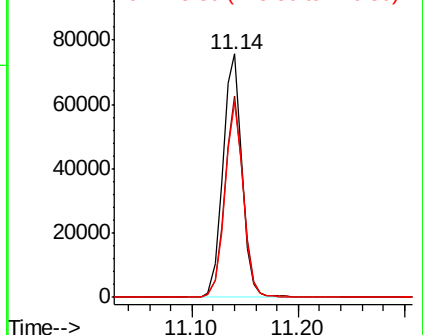
176 77.6 0.0 177.4



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

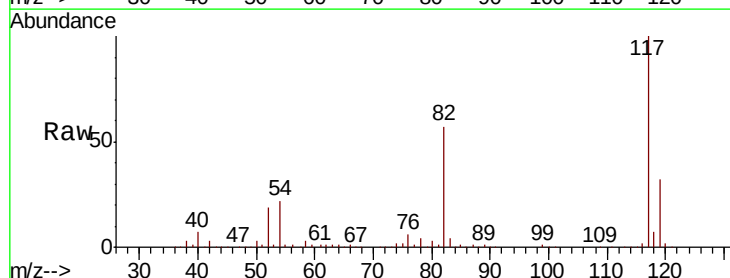
Tgt Ion: 117 Resp: 217769

Ion Ratio Lower Upper

117 100

82 57.2 44.1 66.1

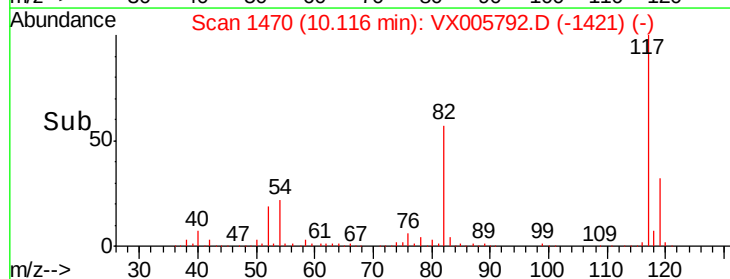
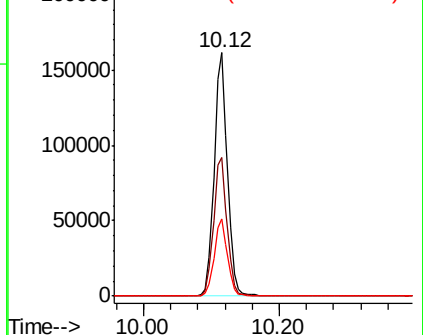
119 31.7 26.2 39.2

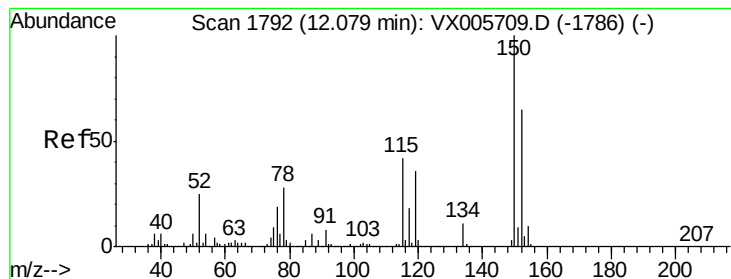


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



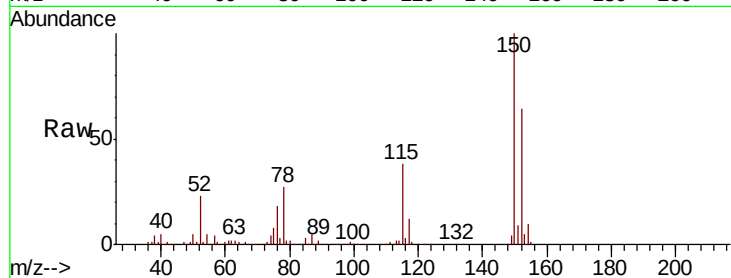


#72

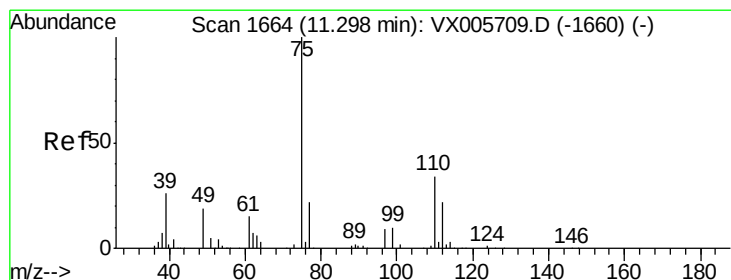
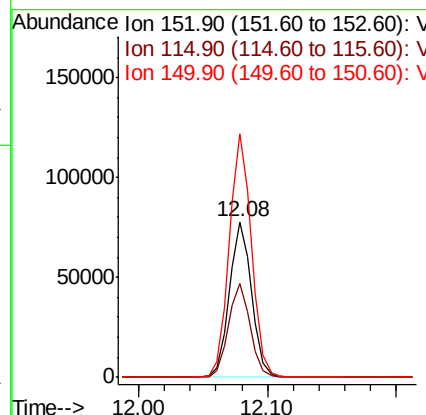
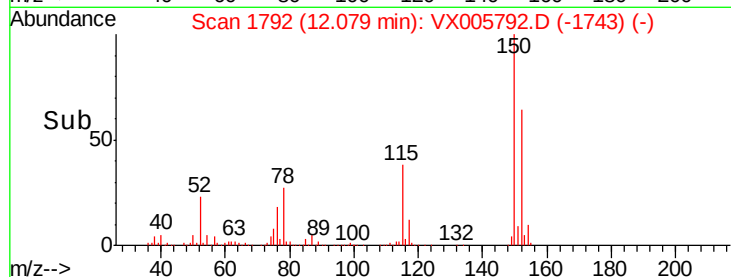
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 94361
Ion Ratio Lower Upper
152 100
115 59.5 39.4 118.1
150 156.4 0.0 346.4



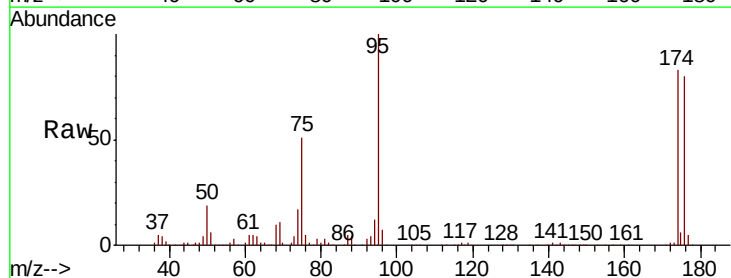
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



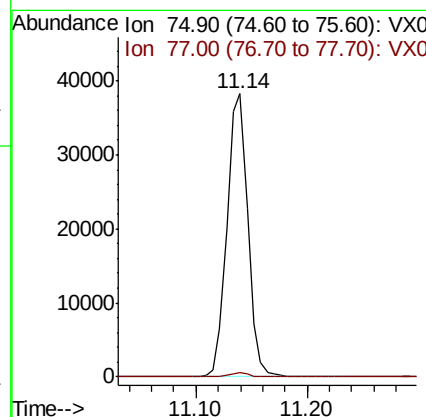
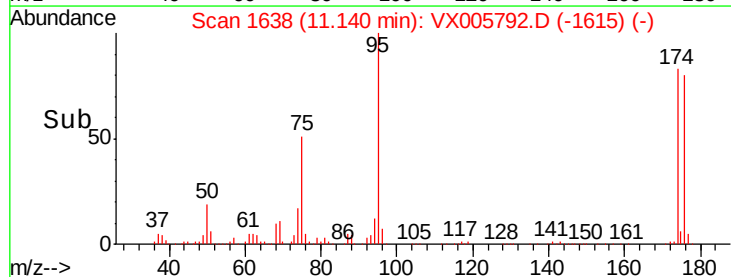
#76

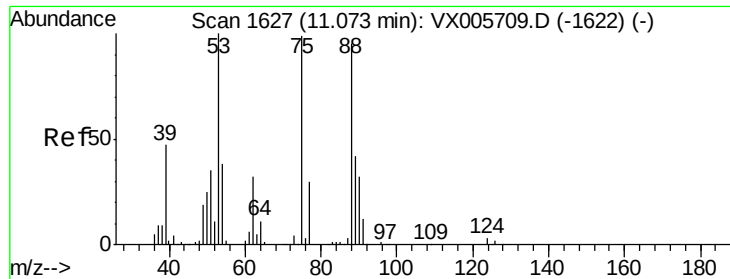
1,2,3-Trichloropropane
Concen: 21.110 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005792.D
Acq: 05 Nov 2018 21:24

Tgt Ion: 75 Resp: 49613
Ion Ratio Lower Upper
75 100
77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.206 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

Instrument :

MSVOA_X

ClientSampled :

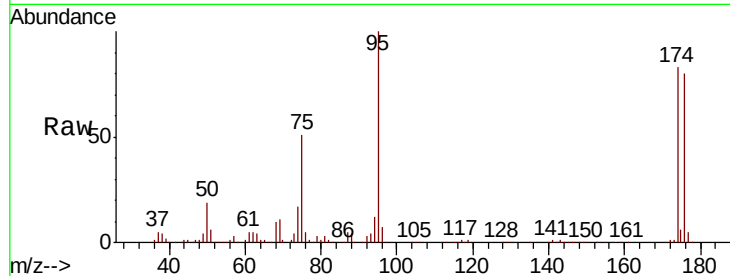
Tot Ion: 75 Resp: 49613

Ion Ratio Lower Upper

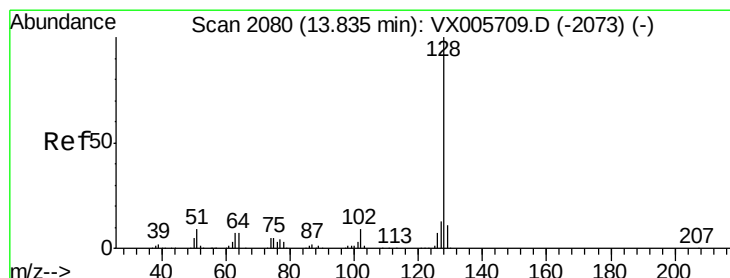
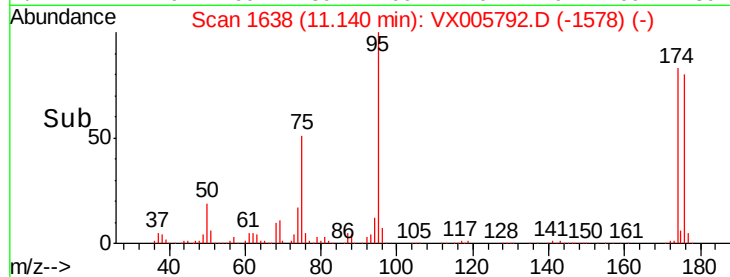
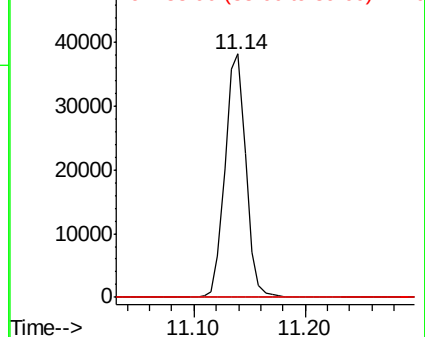
75 100

53 0.3 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



#95

Naphthalene

Concen: 2.630 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005792.D

Acq: 05 Nov 2018 21:24

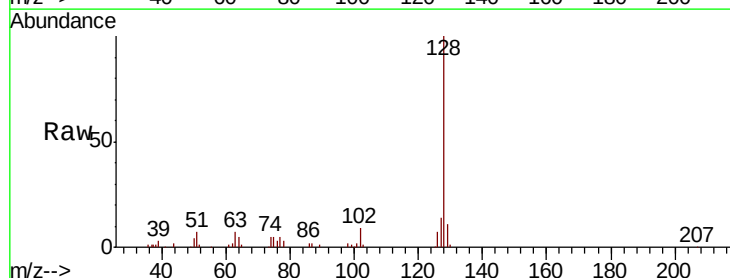
Tgt Ion: 128 Resp: 17306

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 11.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

