

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005636.D
 Acq On : 27 Oct 2018 06:01
 Operator : JC/MD
 Sample : J5692-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20181024

Quant Time: Oct 29 00:48:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241129	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	348305	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151617	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	144030	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	5.50	113	112093	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
50) Toluene-d8	8.71	98	399532	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
62) 4-Bromofluorobenzene	11.14	95	136344	42.60	ug/l	0.00
Spiked Amount			Recovery	=	85.20%	

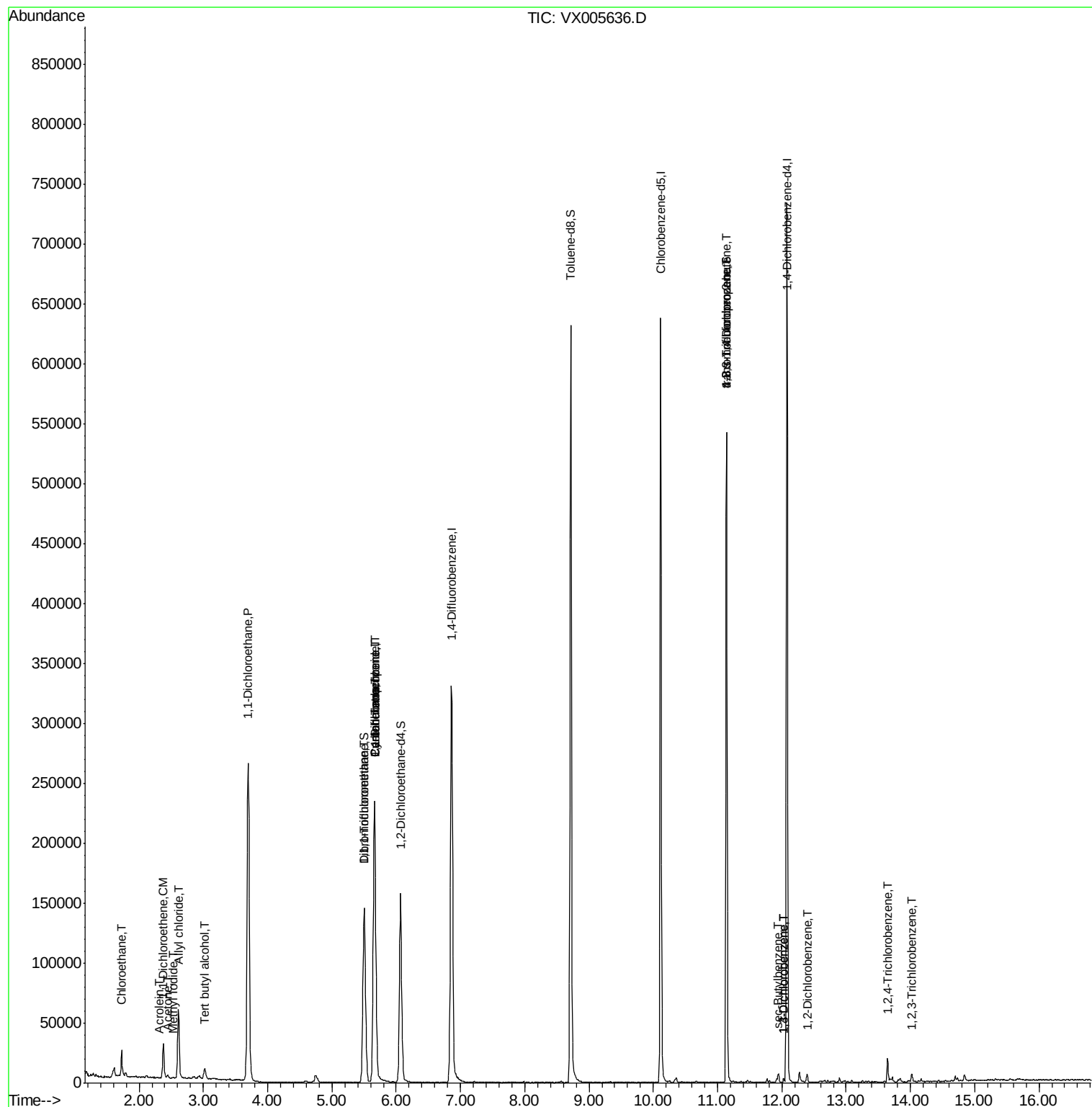
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	13011	6.834	ug/l	90
10) Methyl Iodide	2.53	142	114	2.769	ug/l #	39
11) Tert butyl alcohol	3.02	59	5429	6.854	ug/l #	76
12) 1,1-Dichloroethene	2.38	96	9389	4.148	ug/l	97
13) Acrolein	2.31	56	86	0.213	ug/l #	14
14) Allyl chloride	2.61	41	5364	1.062	ug/l #	65
16) Acetone	2.45	43	2720	1.749	ug/l	94
18) Methyl Acetate	2.85	43	961	Below Cal	#	55
24) 1,1-Dichloroethane	3.70	63	312477	65.152	ug/l	98
31) Cyclohexane	5.66	56	4399	1.109	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	11650	2.942	ug/l	100
36) 1,1-Dichloropropene	5.66	75	16303	4.823	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21228	5.963	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	68708	21.388	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	68708	69.887	ug/l #	9
85) sec-Butylbenzene	11.95	105	3952	0.419	ug/l #	78
87) 1,3-Dichlorobenzene	12.02	146	1131	0.233	ug/l	98
88) 1,4-Dichlorobenzene	12.02	146	1131	0.223	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	2043	0.416	ug/l	96
93) 1,2,4-Trichlorobenzene	13.65	180	4790	1.345	ug/l	94
96) 1,2,3-Trichlorobenzene	14.02	180	1516	0.420	ug/l #	77

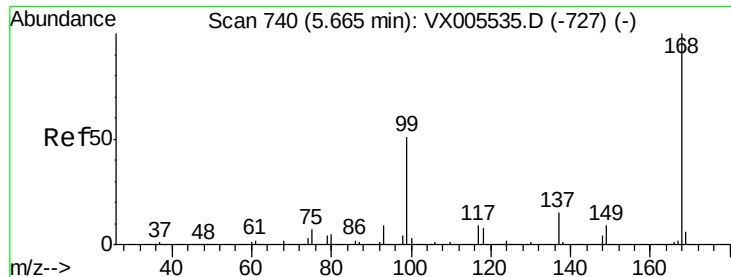
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

Instrument :

MSVOA_X

ClientSampleId :

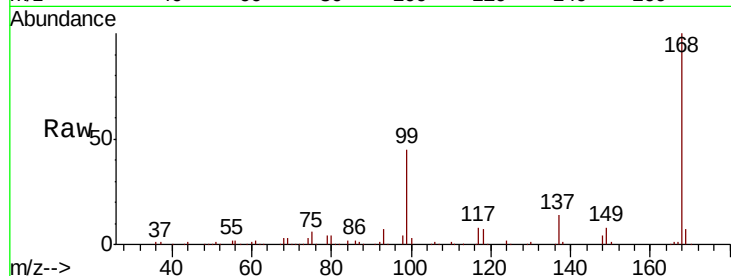
SA-DUP01-20181024

Tot Ion:168 Resp: 241129

Ion Ratio Lower Upper

168 100

99 44.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

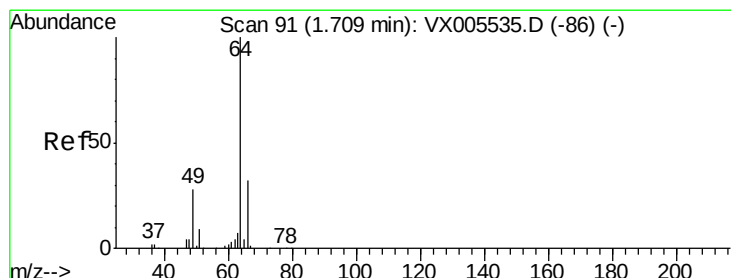
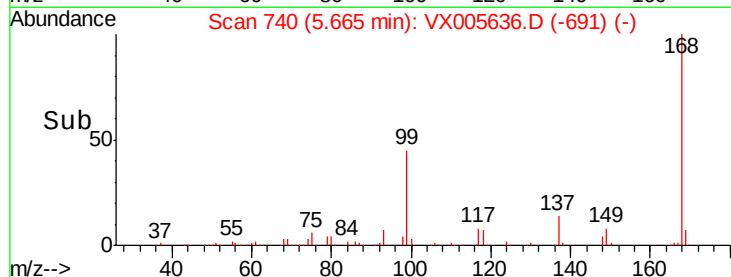
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 6.834 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005636.D

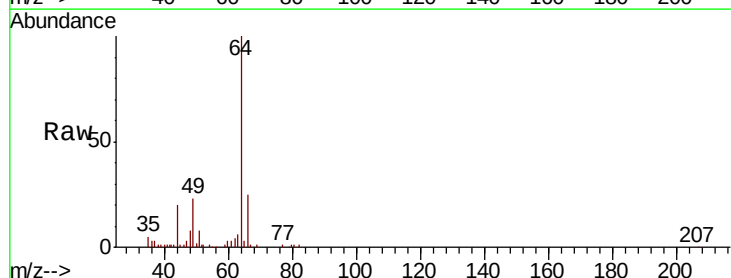
Acq: 27 Oct 2018 06:01

Tgt Ion: 64 Resp: 13011

Ion Ratio Lower Upper

64 100

66 26.8 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

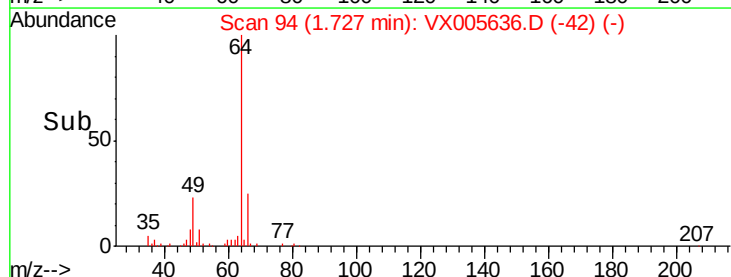
1.73

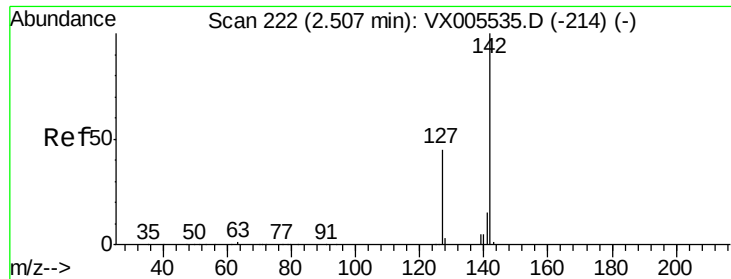
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Time-->

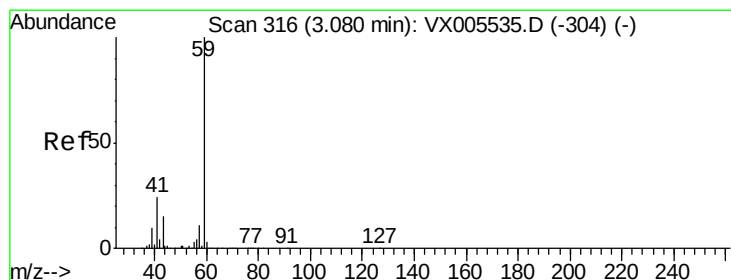
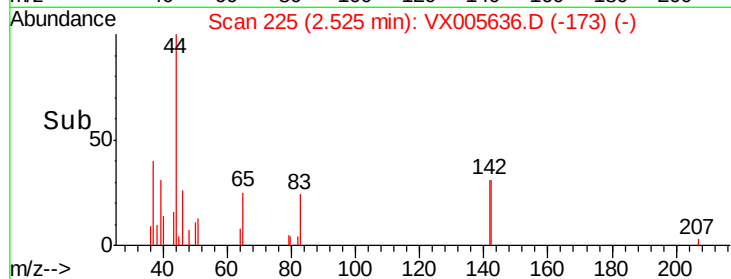
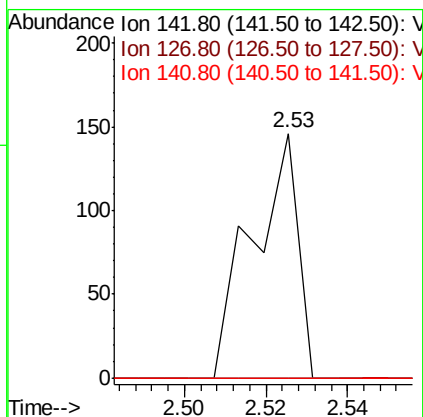
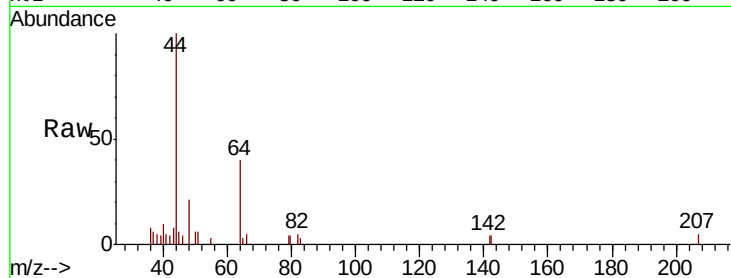




#10
Methvl Iodide
Concen: 2.769 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

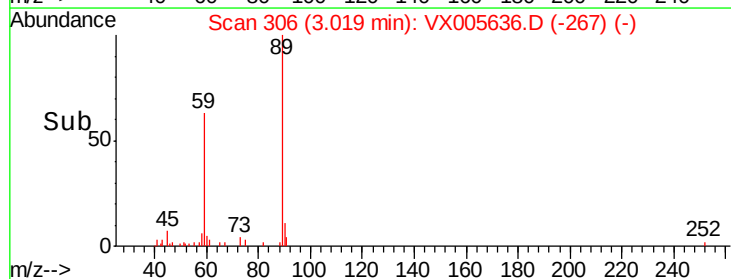
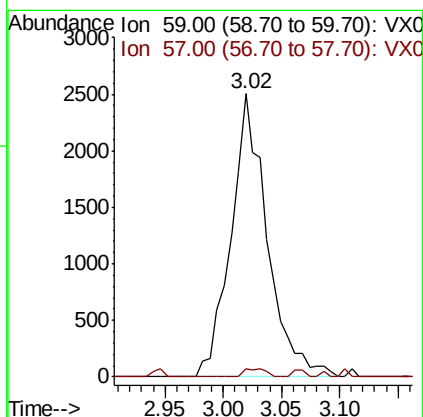
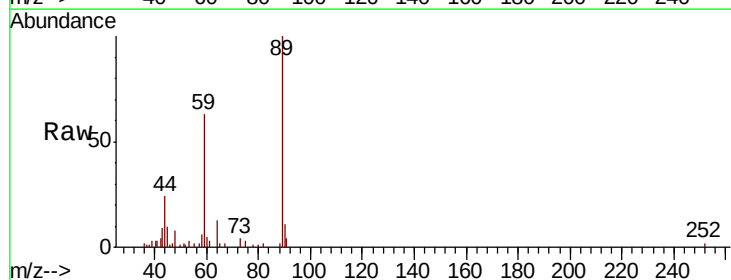
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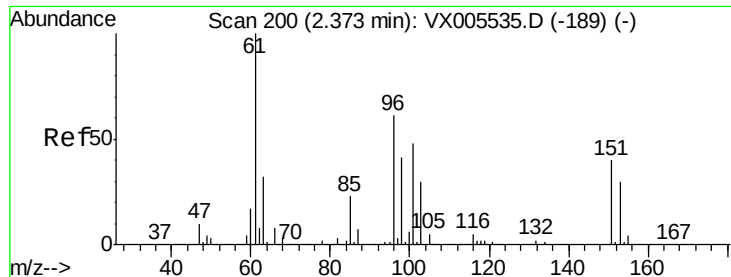
Tot Ion:142 Resp: 114
Ion Ratio Lower Upper
142 100
127 0.0 36.0 54.0#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 6.854 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 59 Resp: 5429
Ion Ratio Lower Upper
59 100
57 1.7 8.5 12.7#

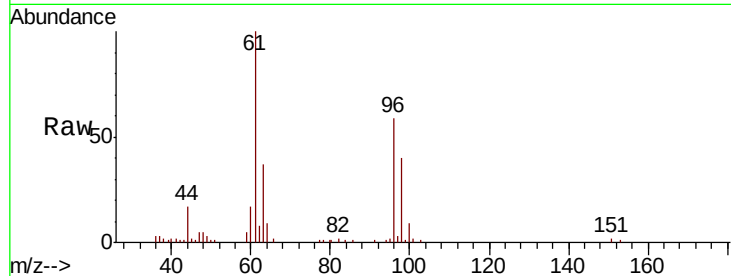




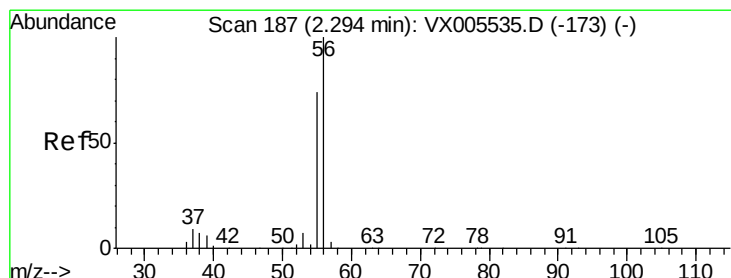
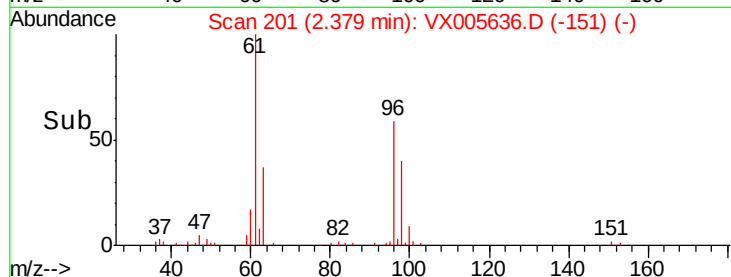
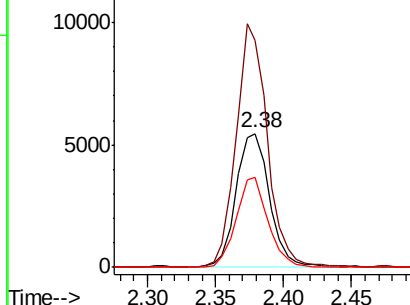
#12
 1,1-Dichloroethene
 Concen: 4.148 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20181024

Tot Ion	96	Resp	9389
Ion	Ratio	Lower	Upper
96	100		
61	169.1	131.8	197.8
98	67.5	53.4	80.2

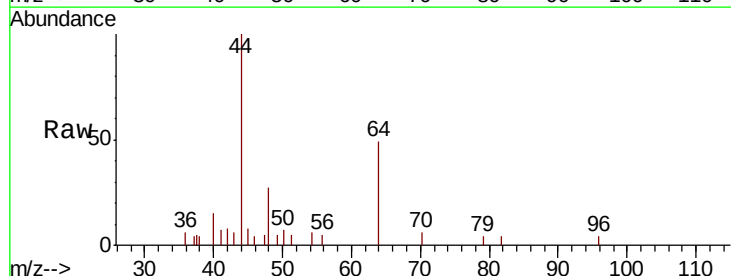


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

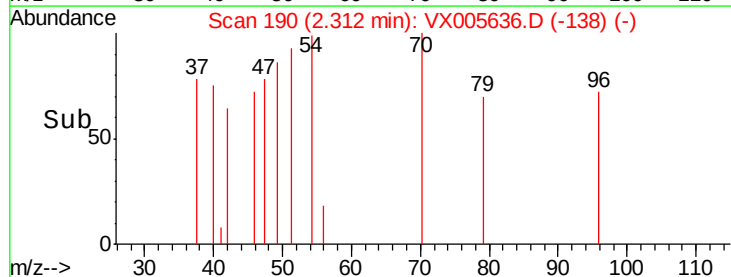
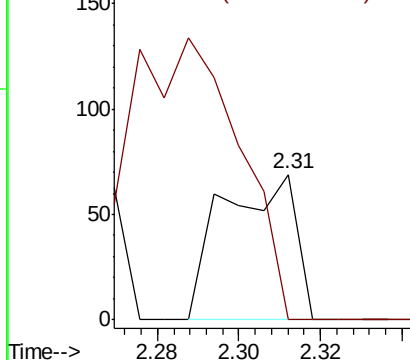


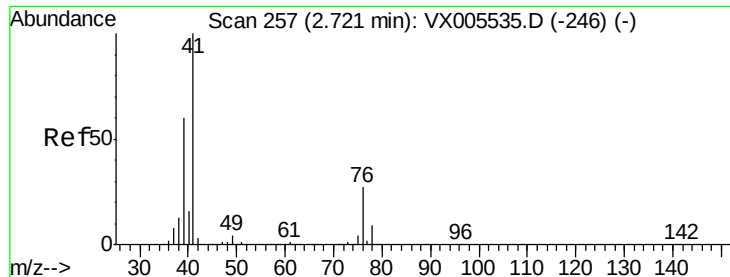
#13
 Acrolein
 Concen: 0.213 ug/l
 RT: 2.31 min Scan# 190
 Delta R.T. 0.02 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Tgt Ion	56	Resp	86
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

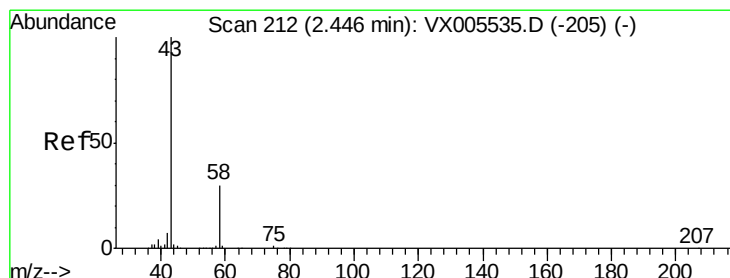
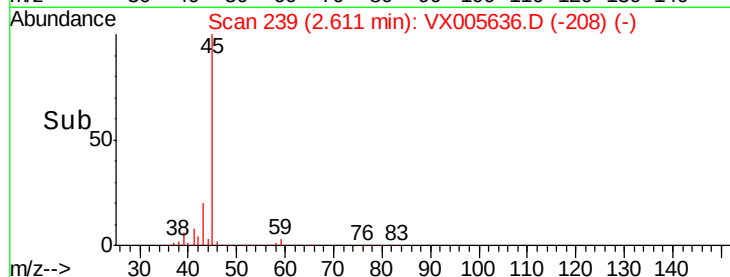
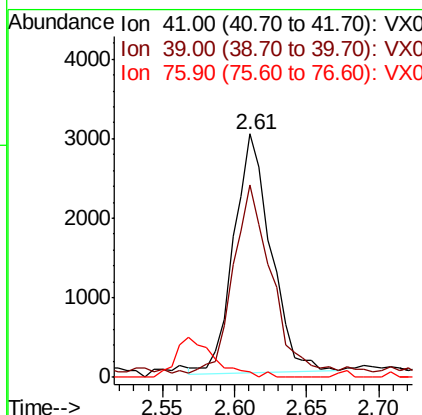
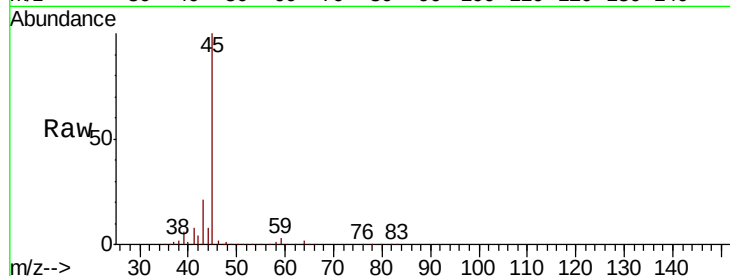




#14
Allvl chloride
Concen: 1.062 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.11 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

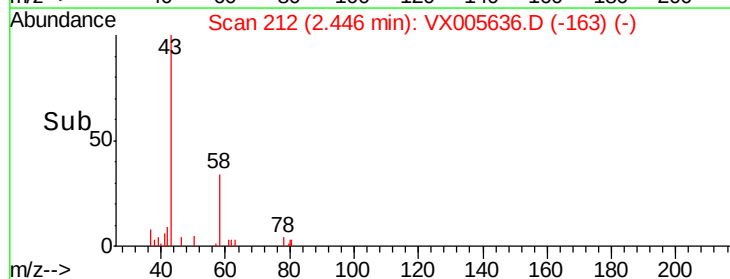
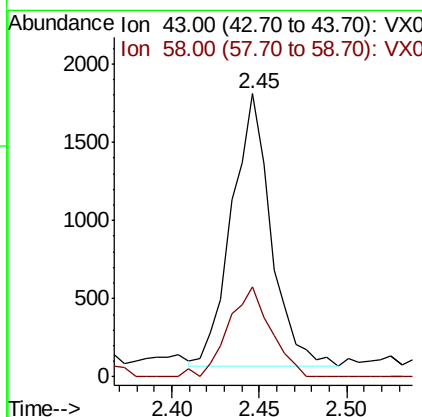
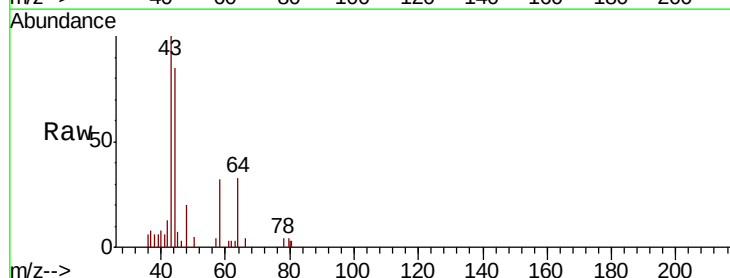
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20181024

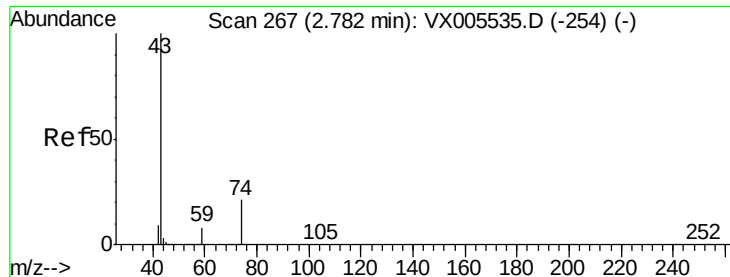
Tot Ion: 41 Resp: 5364
Ion Ratio Lower Upper
41 100
39 80.4 48.2 72.4#
76 0.0 21.9 32.9#



#16
Acetone
Concen: 1.749 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 43 Resp: 2720
Ion Ratio Lower Upper
43 100
58 32.9 23.8 35.6

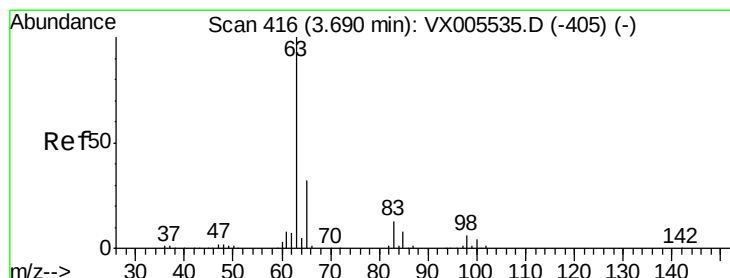
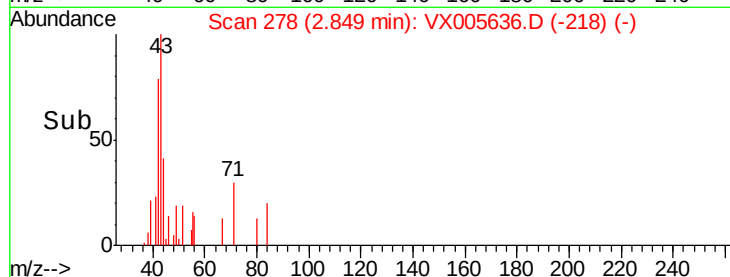
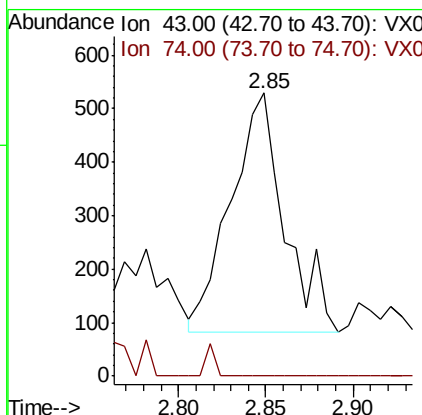
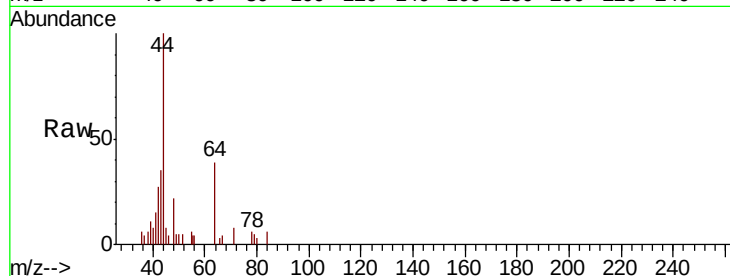




#18
Methyl Acetate
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. 0.07 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

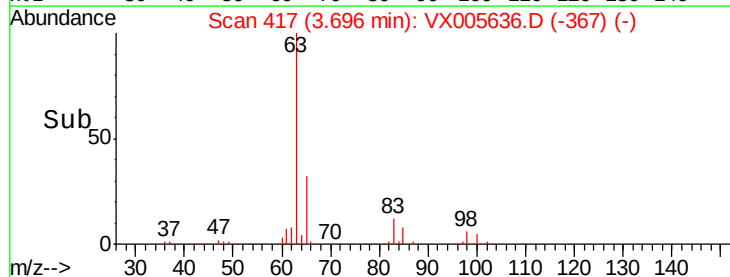
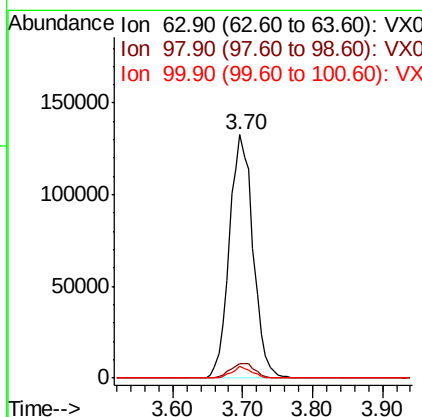
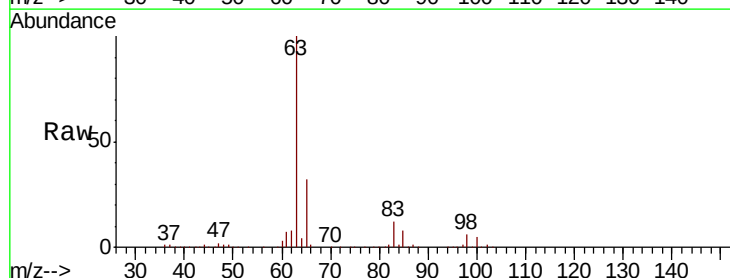
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MSVOA_X
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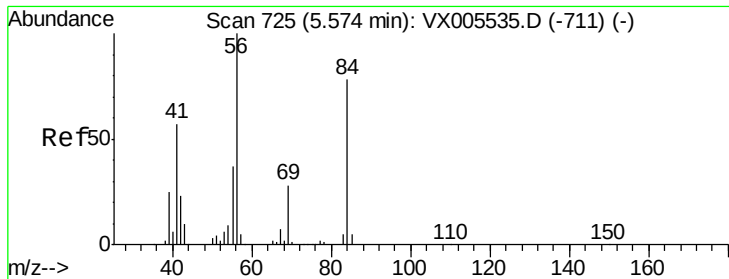
Tot Ion: 43 Resp: 961
Ion Ratio Lower Upper
43 100
74 0.0 16.8 25.2#



#24
1,1-Dichloroethane
Concen: 65.152 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.01 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 63 Resp: 312477
Ion Ratio Lower Upper
63 100
98 5.8 3.2 9.6
100 4.7 2.1 6.2

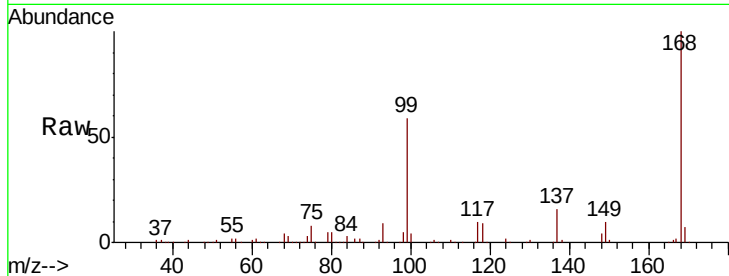




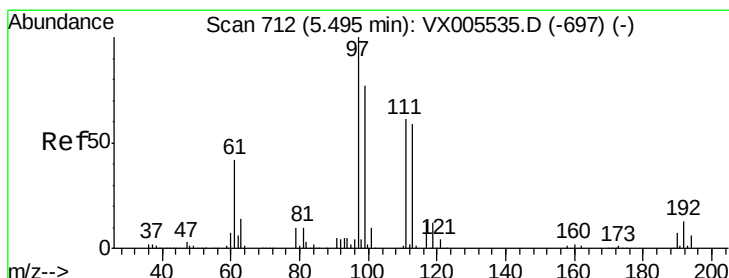
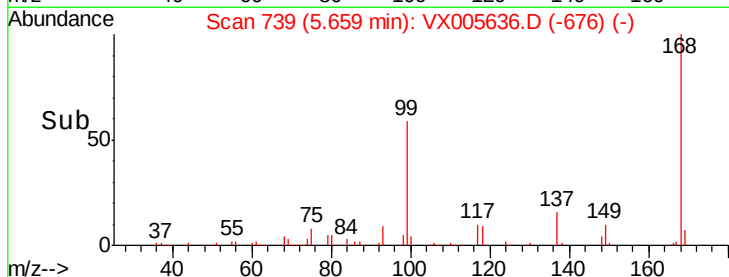
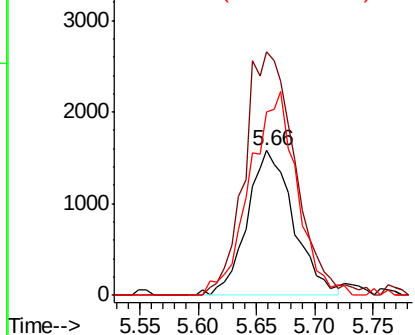
#31
Cyclohexane
Concen: 1.109 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20181024

Tot Ion: 56 Resp: 4399
Ion Ratio Lower Upper
56 100
69 168.2 22.6 34.0#
84 126.4 62.7 94.1#

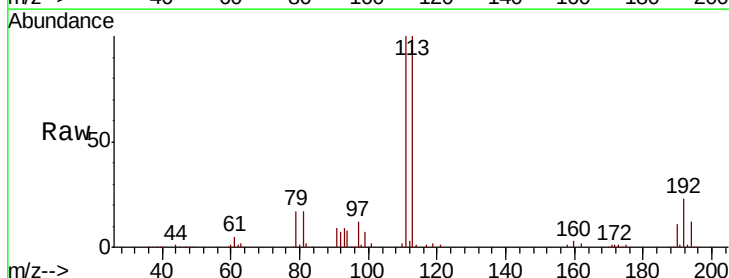


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

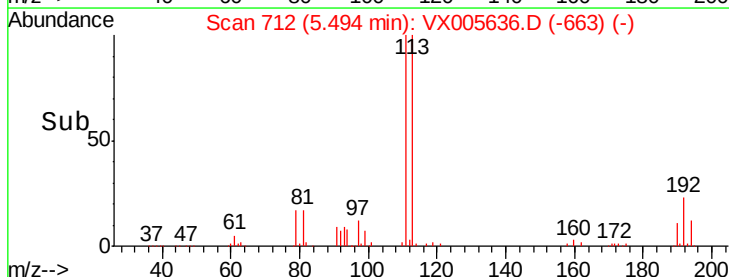
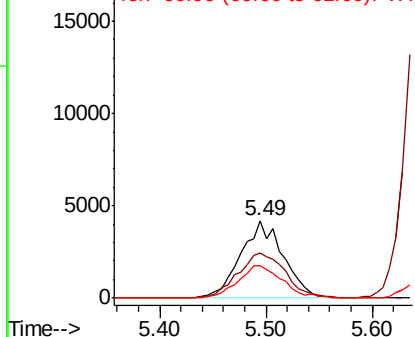


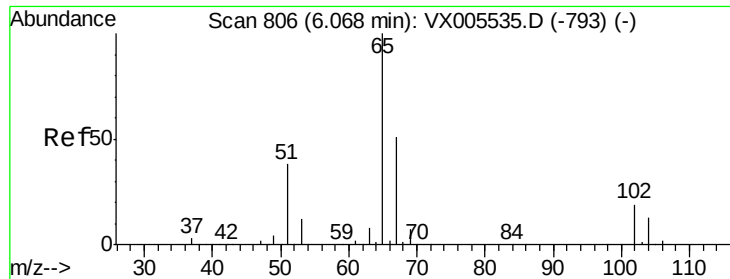
#32
1,1,1-Trichloroethane
Concen: 2.942 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 97 Resp: 11650
Ion Ratio Lower Upper
97 100
99 65.5 52.3 78.5
61 44.4 35.2 52.8



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

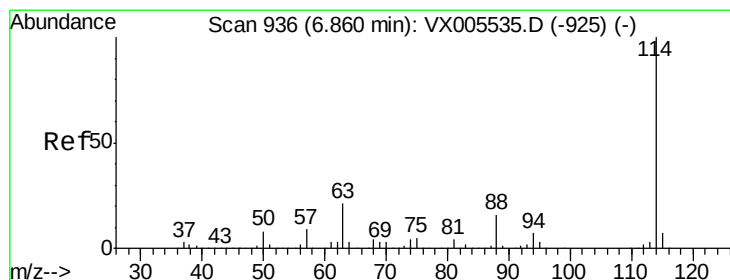
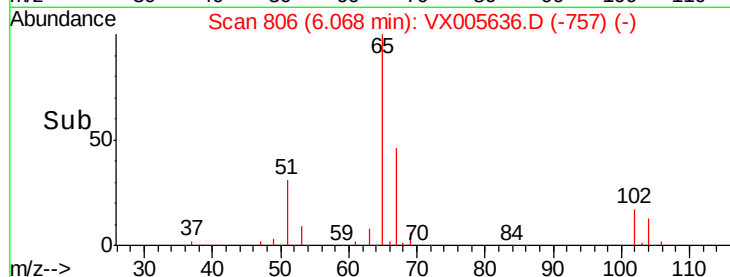
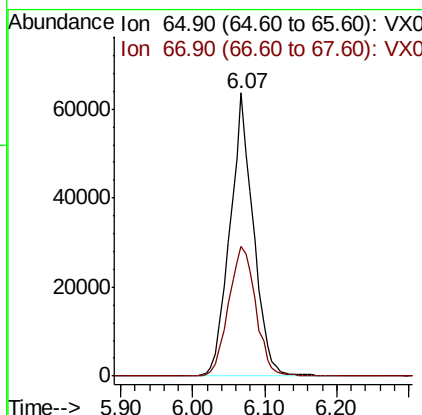
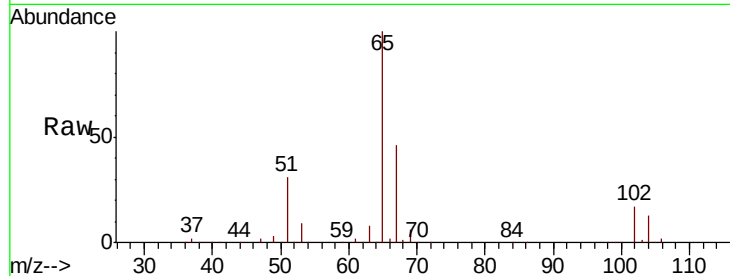




#33
 1,2-Dichloroethane-d4
 Concen: 48.933 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

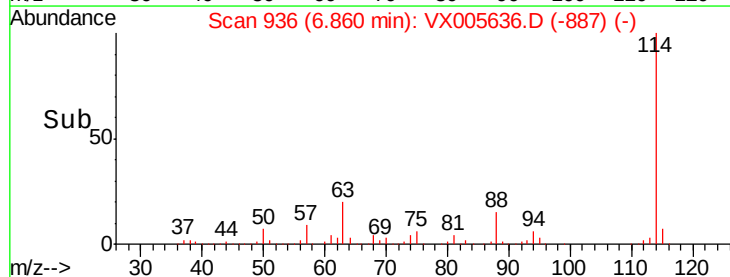
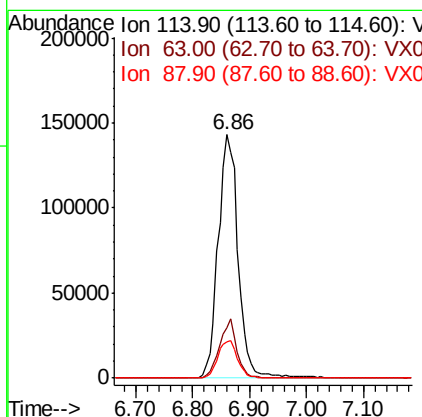
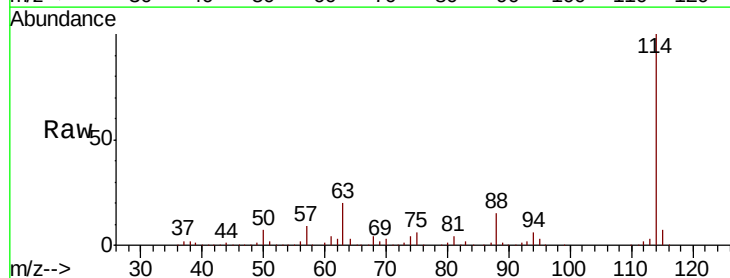
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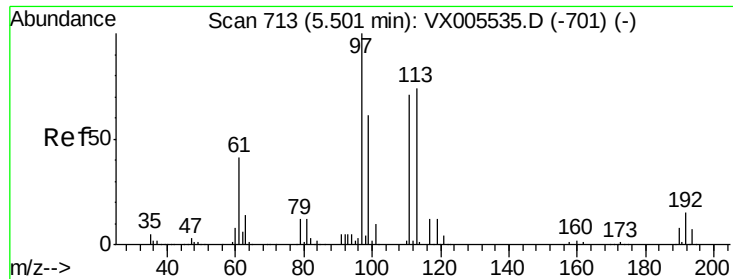
Tot Ion: 65 Resp: 144030
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Tgt Ion: 114 Resp: 348305
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.8
 88 15.1 0.0 31.2

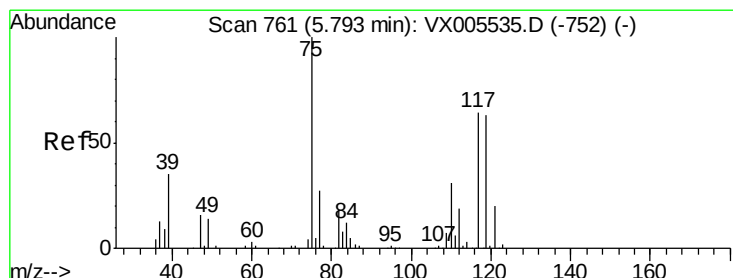
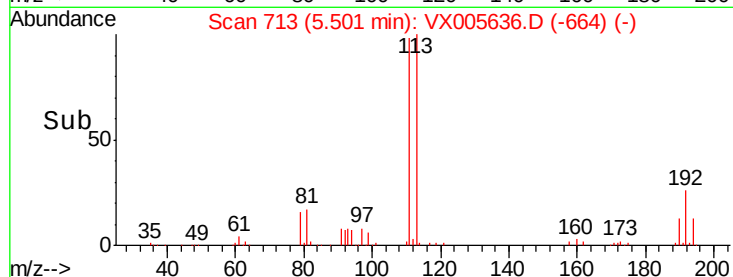
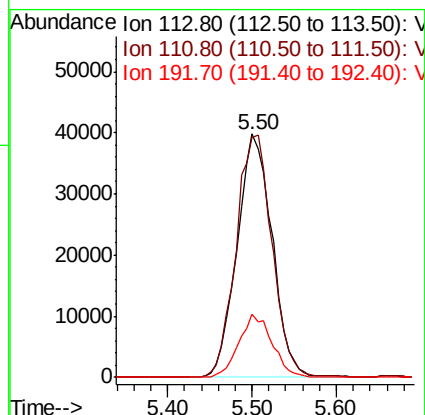
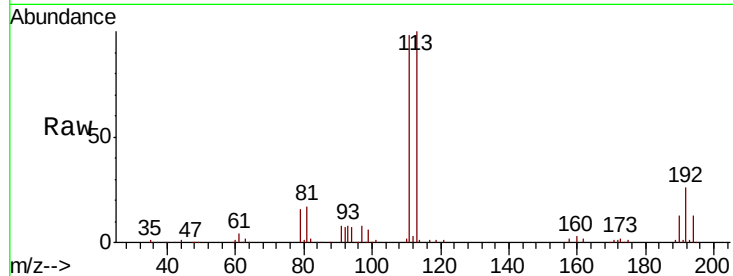




#35
Dibromofluoromethane
Concen: 47.529 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

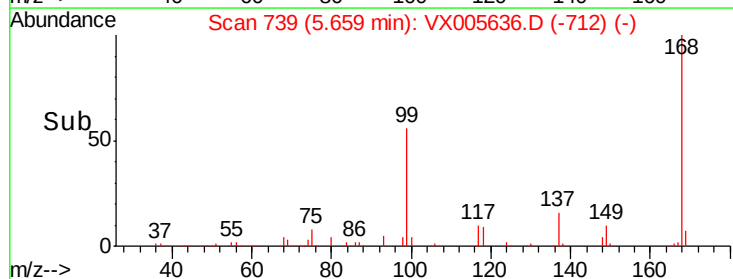
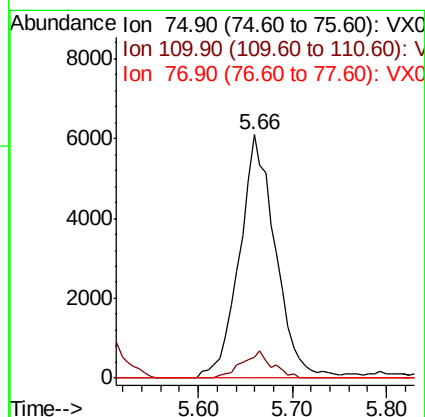
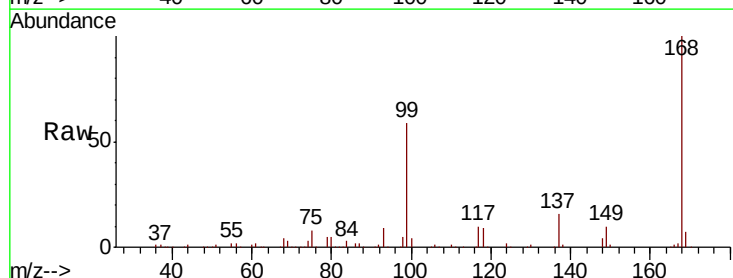
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20181024

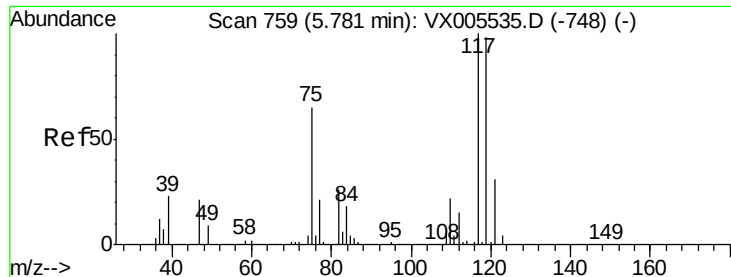
Tot Ion:113 Resp: 112093
Ion Ratio Lower Upper
113 100
111 101.9 82.3 123.5
192 24.5 17.9 26.9



#36
1,1-Dichloropropene
Concen: 4.823 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 75 Resp: 16303
Ion Ratio Lower Upper
75 100
110 9.3 17.4 52.2#
77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.963 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20181024

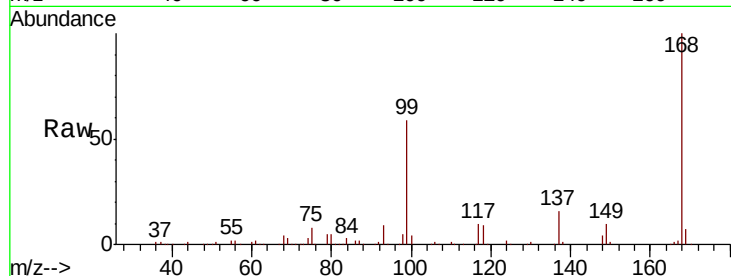
Tot Ion:117 Resp: 21228

Ion Ratio Lower Upper

117 100

119 4.6 78.1 117.1#

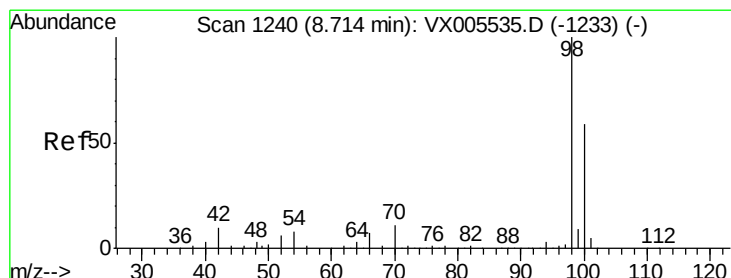
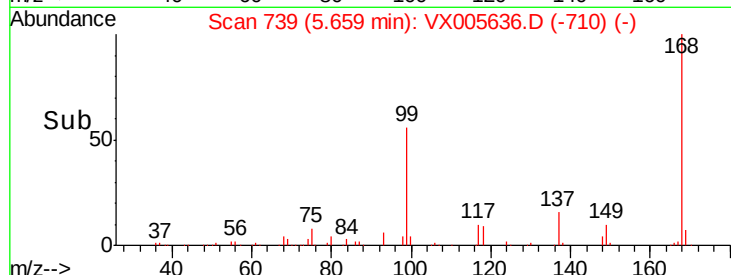
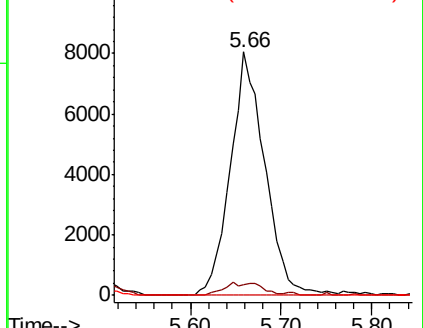
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 47.146 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005636.D

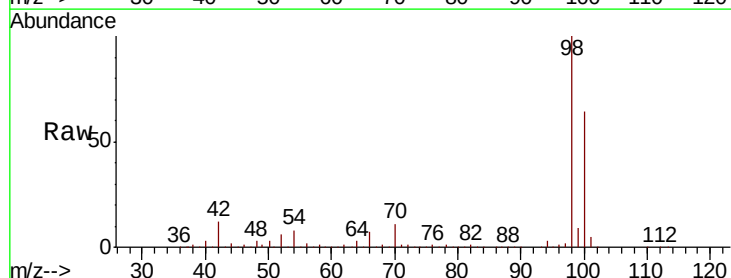
Acq: 27 Oct 2018 06:01

Tgt Ion: 98 Resp: 399532

Ion Ratio Lower Upper

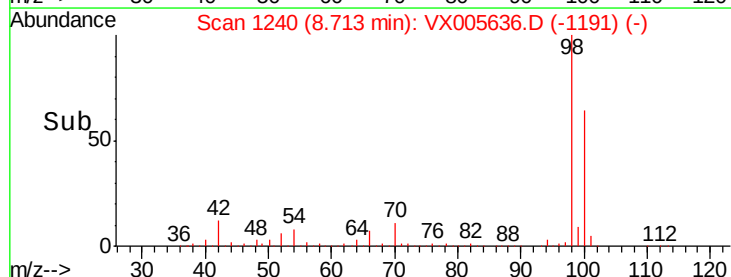
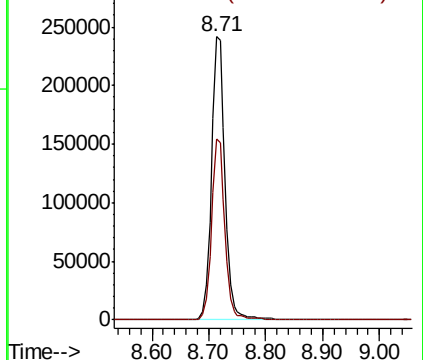
98 100

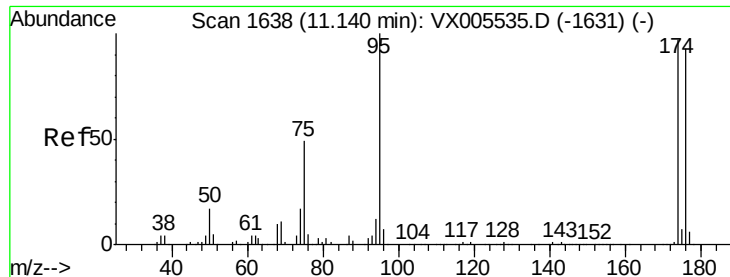
100 63.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.604 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20181024

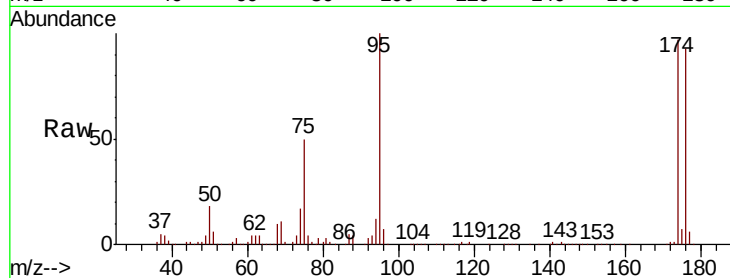
Tot Ion: 95 Resp: 136344

Ion Ratio Lower Upper

95 100

174 93.4 0.0 184.4

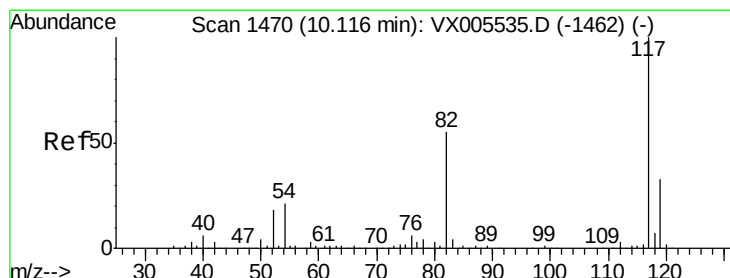
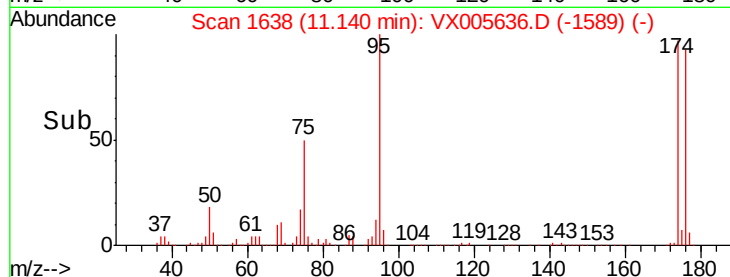
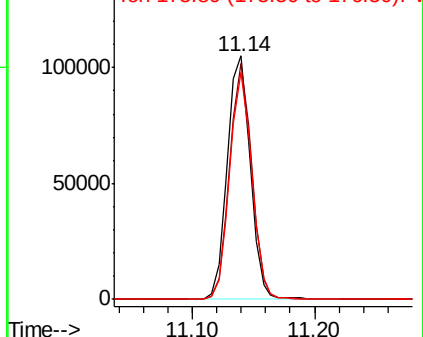
176 89.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX005535.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005535.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005535.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

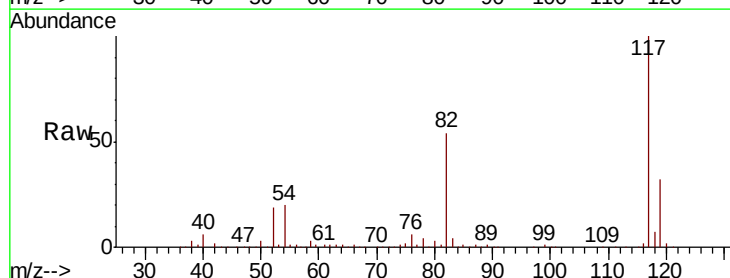
Tgt Ion: 117 Resp: 300416

Ion Ratio Lower Upper

117 100

82 53.8 44.1 66.1

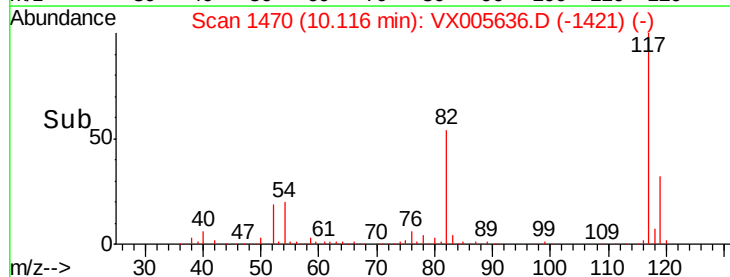
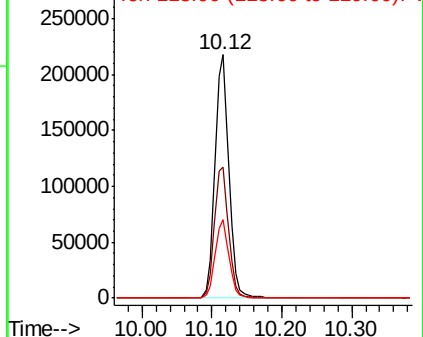
119 32.4 26.2 39.2

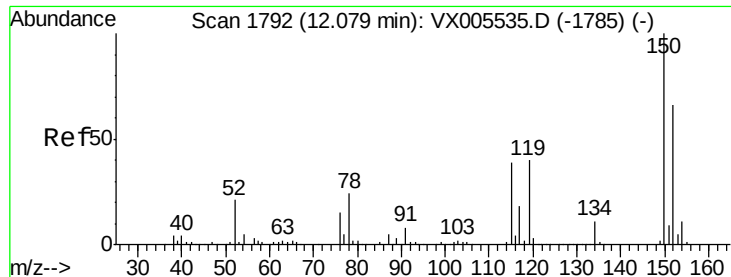


Abundance Ion 116.90 (116.60 to 117.60): VX005535.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005535.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005535.D (-1462) (-)



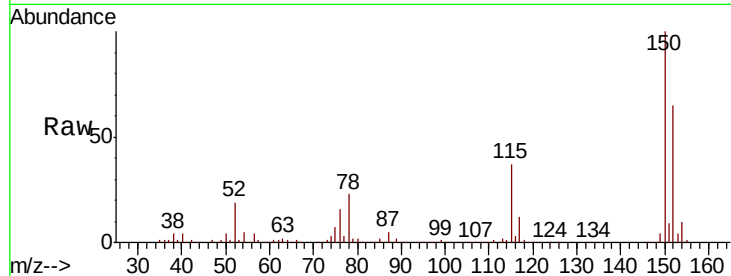


#72

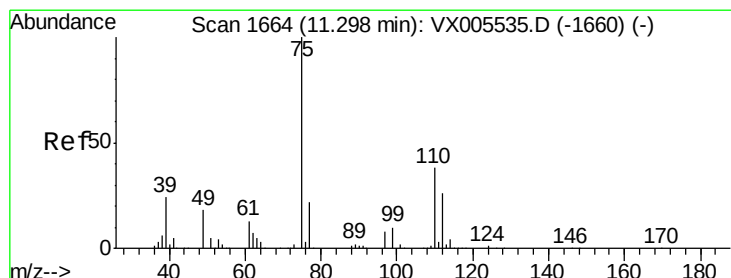
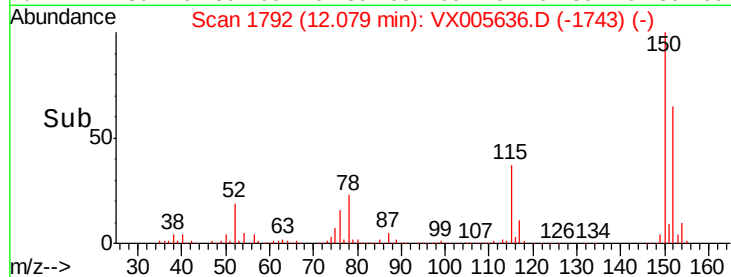
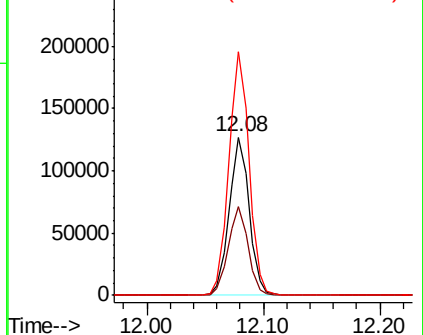
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20181024

Tot Ion:152 Resp: 151617
Ion Ratio Lower Upper
152 100
115 55.4 39.4 118.1
150 155.7 0.0 346.4



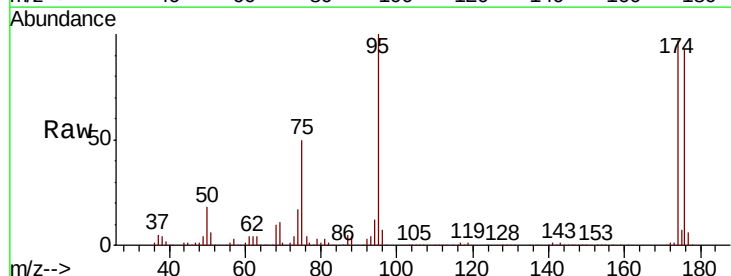
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



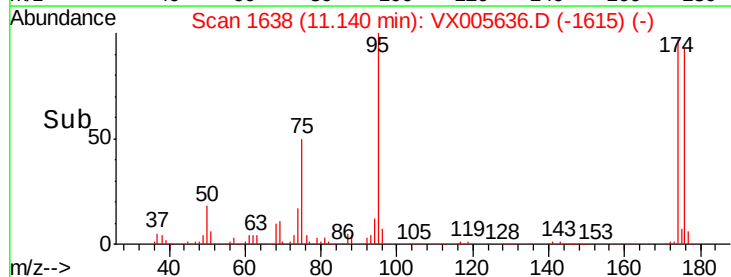
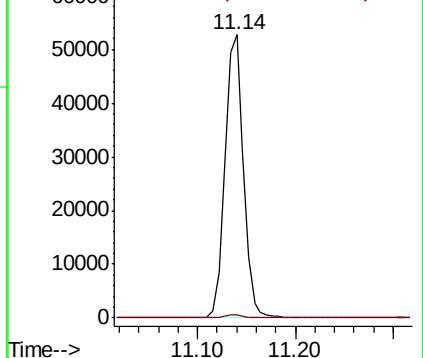
#76

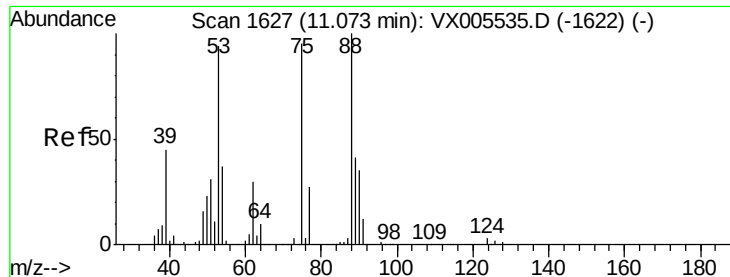
1,2,3-Trichloropropane
Concen: 21.388 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005636.D
Acq: 27 Oct 2018 06:01

Tgt Ion: 75 Resp: 68708
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: 69.887 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20181024

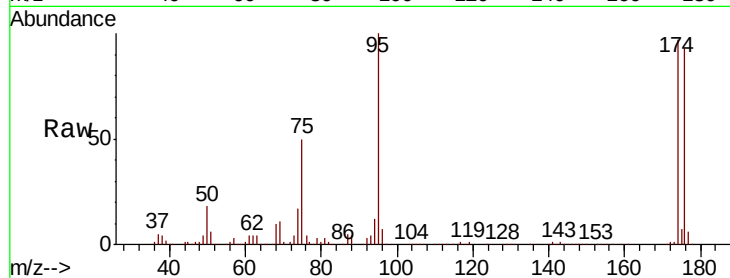
Tot Ion: 75 Resp: 68708

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

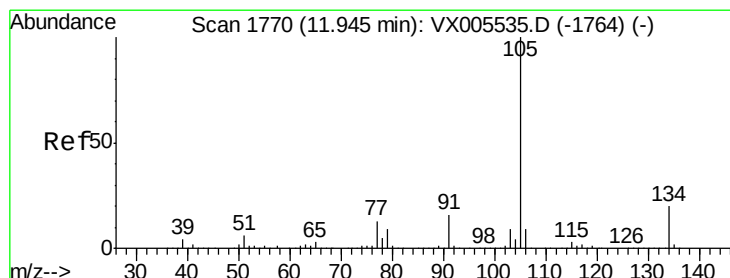
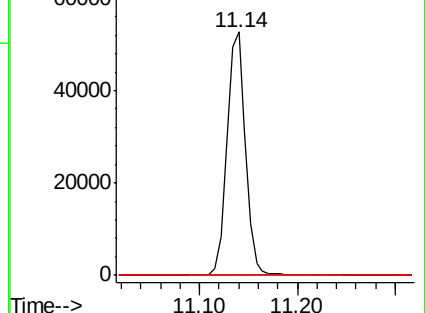
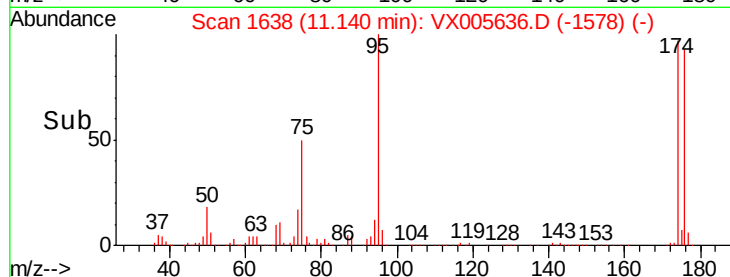
89 0.0 39.8 59.8#



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



#85

sec-Butylbenzene

Concen: 0.419 ug/l

RT: 11.95 min Scan# 1771

Delta R.T. 0.01 min

Lab File: VX005636.D

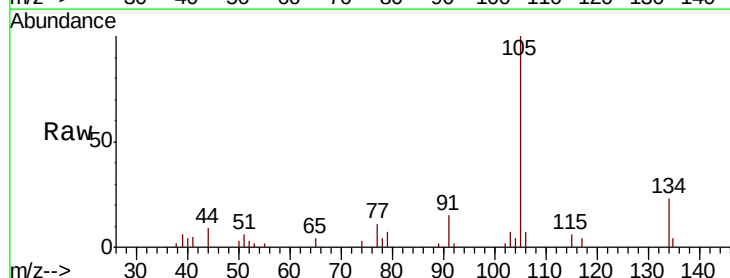
Acq: 27 Oct 2018 06:01

Tgt Ion: 105 Resp: 3952

Ion Ratio Lower Upper

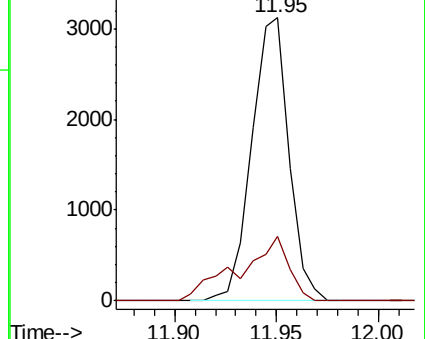
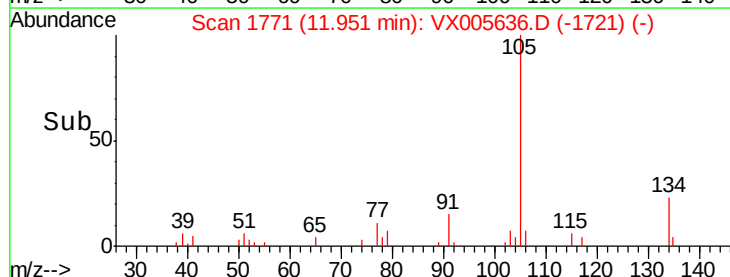
105 100

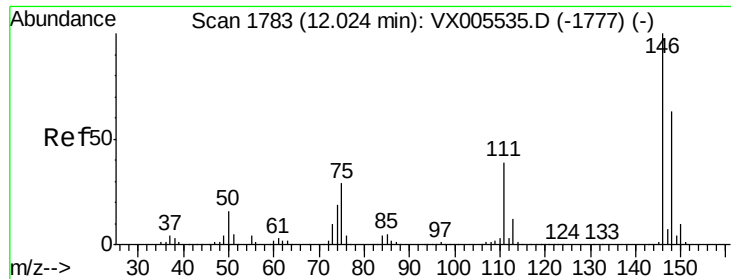
134 30.6 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

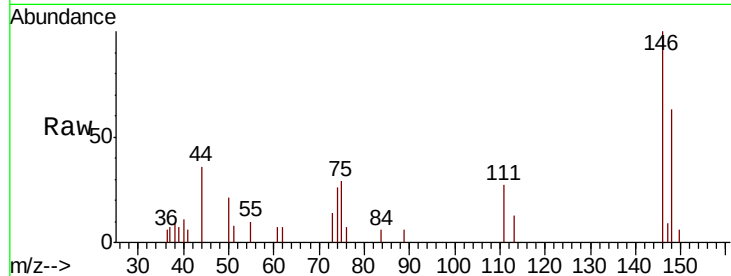




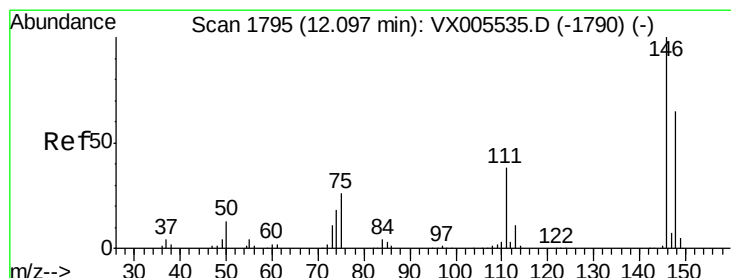
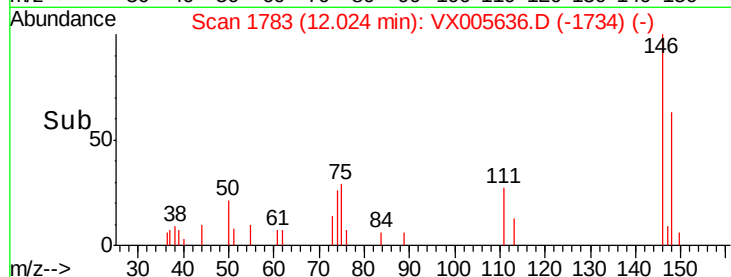
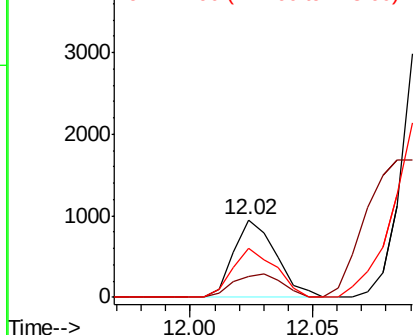
#87
 1,3-Dichlorobenzene
 Concen: 0.233 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20181024

Tot Ion:146 Resp: 1131
 Ion Ratio Lower Upper
 146 100
 111 35.3 19.0 57.0
 148 64.8 31.9 95.9

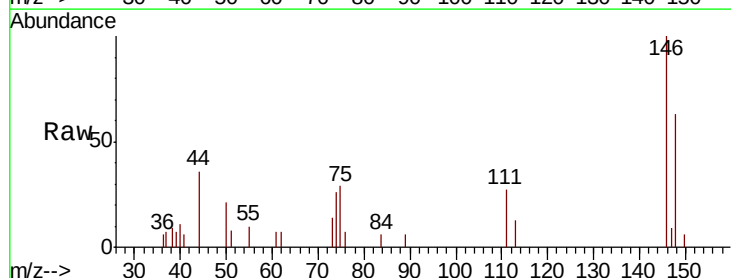


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

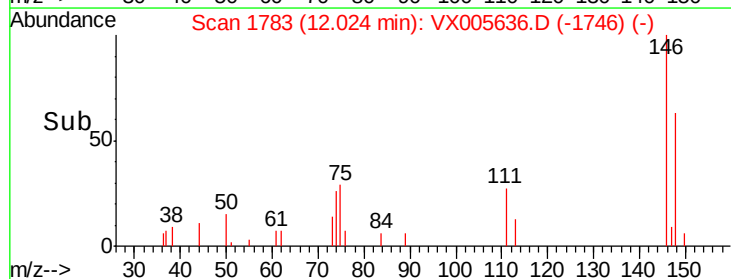
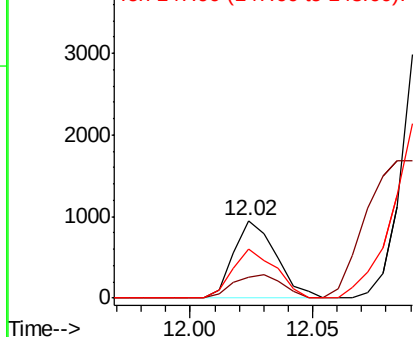


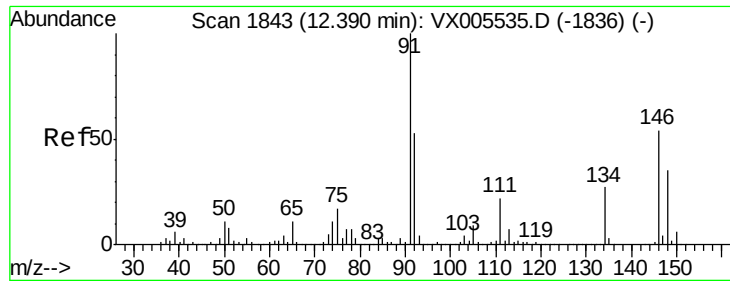
#88
 1,4-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Tgt Ion:146 Resp: 1131
 Ion Ratio Lower Upper
 146 100
 111 35.3 18.6 55.8
 148 64.8 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 0.416 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20181024

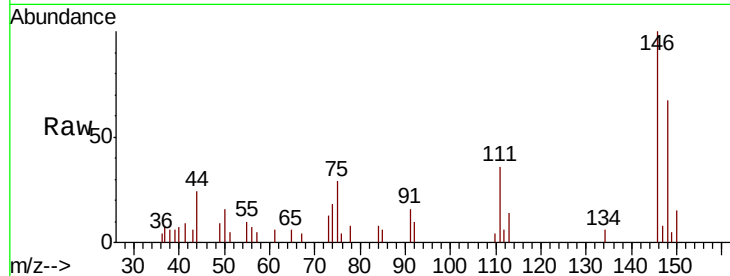
Tot Ion:146 Resp: 2043

Ion Ratio Lower Upper

146 100

111 38.5 20.0 59.9

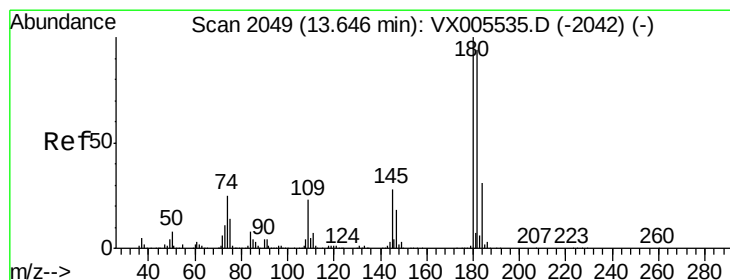
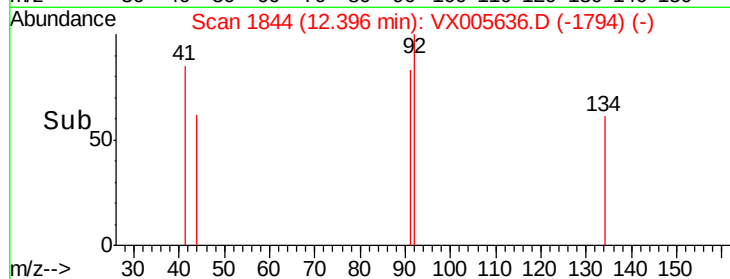
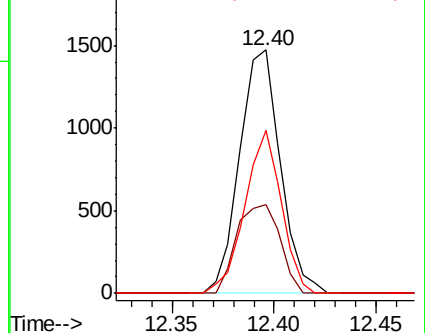
148 59.9 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 1.345 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX005636.D

Acq: 27 Oct 2018 06:01

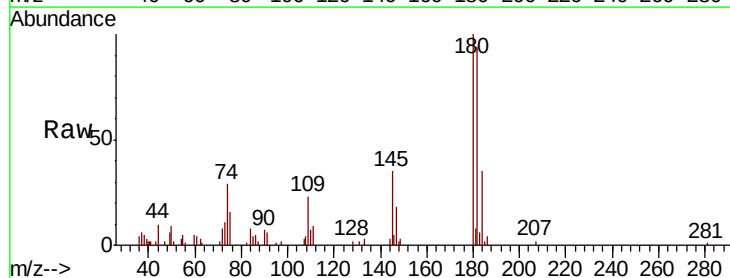
Tgt Ion:180 Resp: 4790

Ion Ratio Lower Upper

180 100

182 94.6 47.6 142.8

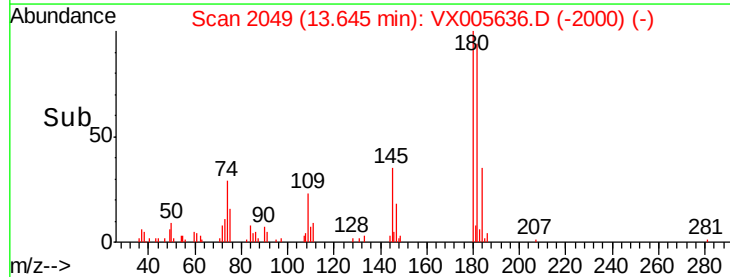
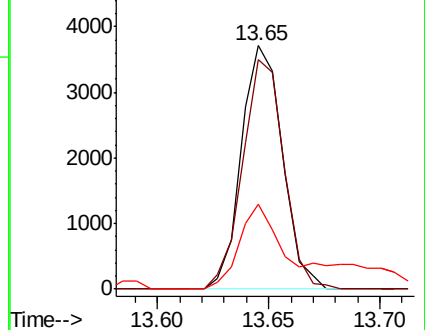
145 40.0 14.1 42.2

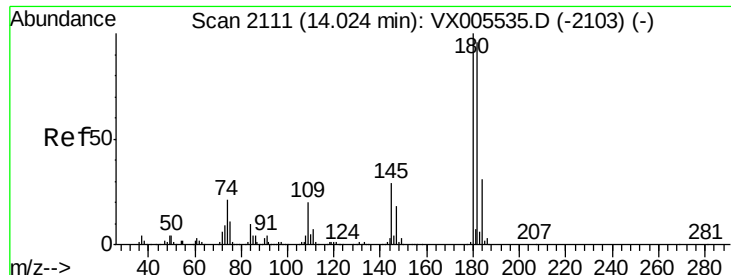


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

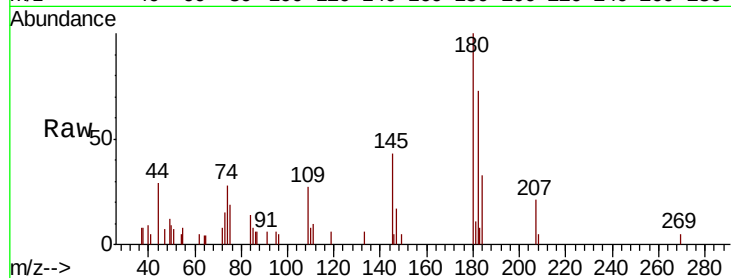




#96
 1,2,3-Trichlorobenzene
 Concen: 0.420 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. -0.01 min
 Lab File: VX005636.D
 Acq: 27 Oct 2018 06:01

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20181024

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.9	48.0	144.2
145	77.4	15.1	45.3#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

