

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009760.D
 Acq On : 21 May 2019 20:04
 Operator : JC/SP
 Sample : K2973-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0159

Quant Time: May 22 07:08:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	172378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	274607	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	101844	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	115694	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
35) Dibromofluoromethane	5.50	113	83386	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	8.71	98	346000	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
62) 4-Bromofluorobenzene	11.13	95	114092	45.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.10%	

Target Compounds

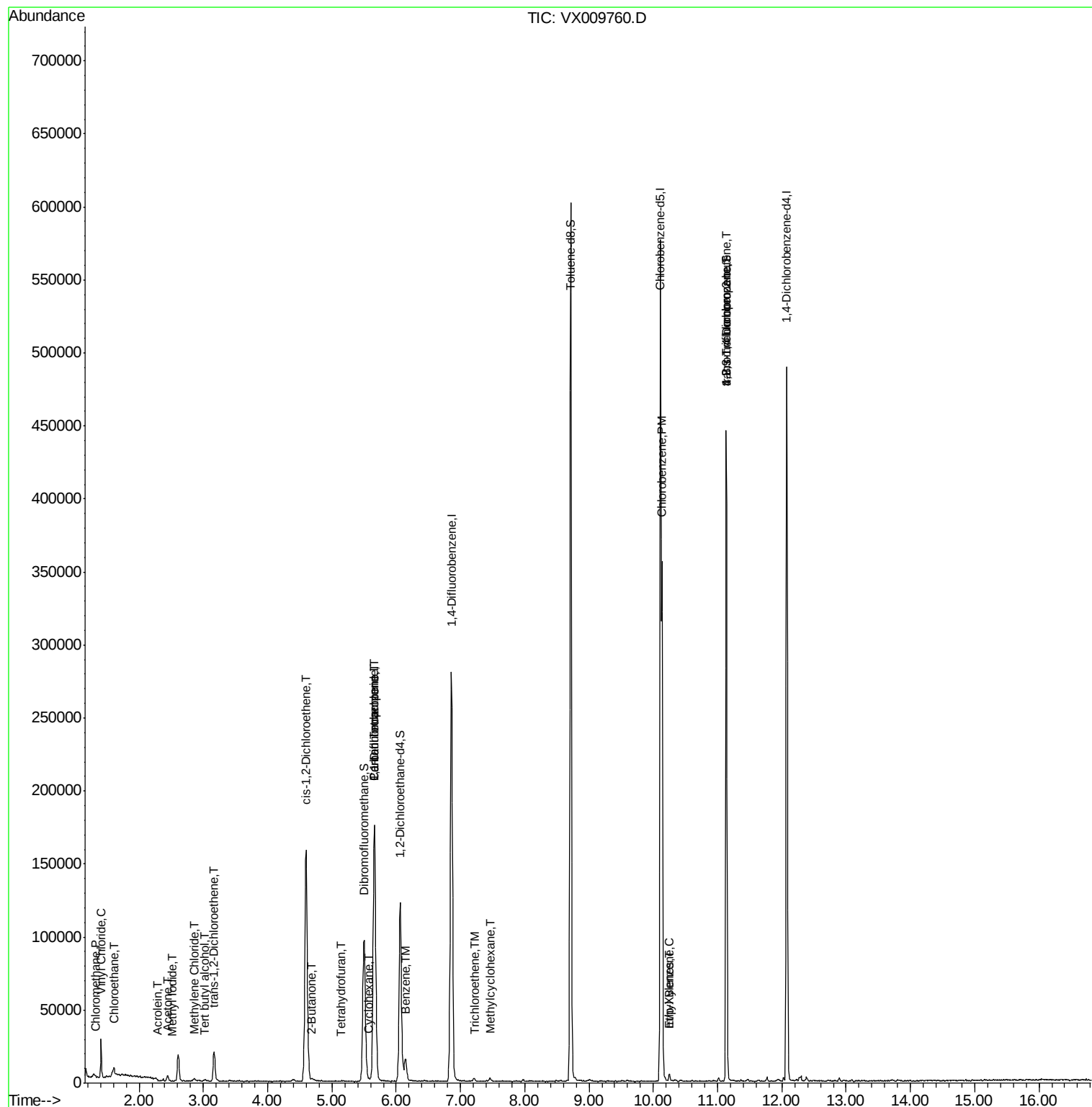
						Qvalue
3) Chloromethane	1.32	50	541	0.249	ug/l #	70
4) Vinyl Chloride	1.40	62	18240	8.625	ug/l	98
6) Chloroethane	1.62	64	4010	2.953	ug/l #	57
10) Methyl Iodide	2.52	142	19	4.603	ug/l #	42
11) Tert butyl alcohol	3.02	59	935	1.717	ug/l #	73
13) Acrolein	2.29	56	107	0.217	ug/l #	14
16) Acetone	2.44	43	4006	3.170	ug/l	98
20) Methylene Chloride	2.85	84	696	0.340	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	7906	4.507	ug/l	94
25) 2-Butanone	4.69	43	450	0.229	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	97580	46.607	ug/l	90
28) Bromochloromethane	5.01	49	53	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	334	0.264	ug/l	94
31) Cyclohexane	5.57	56	968	0.278	ug/l	86
36) 1,1-Dichloropropene	5.66	75	13831	5.420	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16010	6.905	ug/l #	16
39) Methylcyclohexane	7.46	83	676	0.216	ug/l #	84
40) Benzene	6.15	78	16990	2.151	ug/l	99
44) Trichloroethene	7.22	130	620	0.325	ug/l	85
65) Chlorobenzene	10.14	112	141125	29.287	ug/l	99
67) Ethyl Benzene	10.25	91	2592	0.292	ug/l	96
68) m/p-Xylenes	10.25	106	781	0.241	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	59130	25.029	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59130	64.041	ug/l #	10

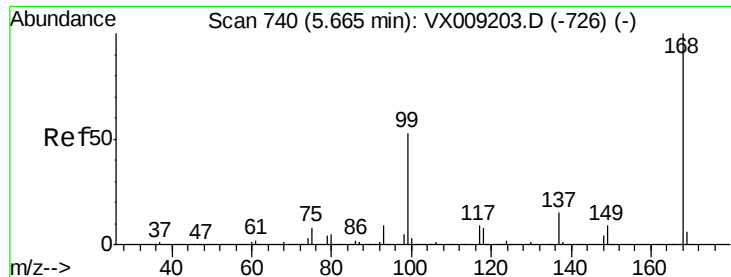
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052119\
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ClientSampleId :
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Quant Time: May 22 07:08:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
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: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

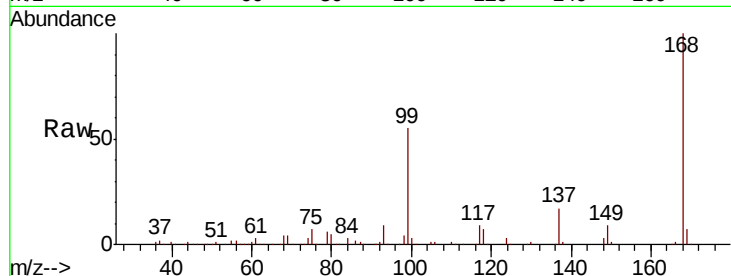
S36-0159

Tot Ion:168 Resp: 172378

Ion Ratio Lower Upper

168 100

99 54.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

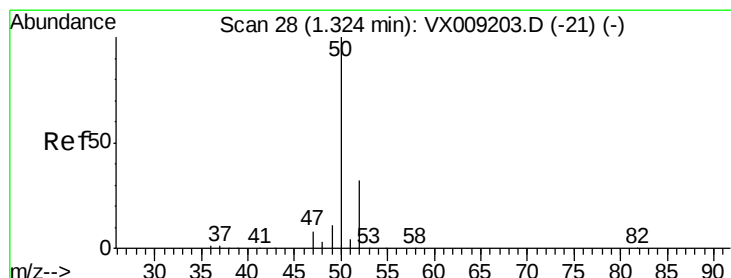
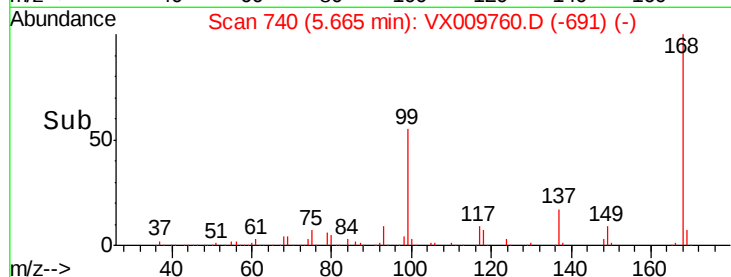
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009760.D

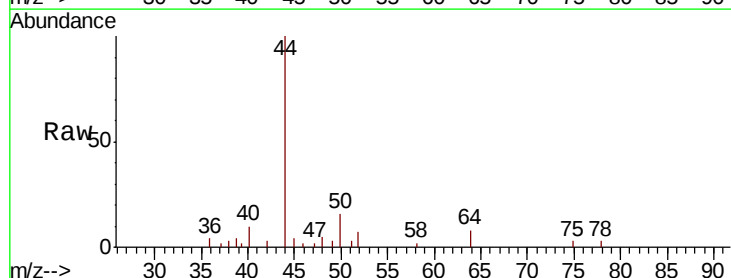
Acq: 21 May 2019 20:04

Tgt Ion: 50 Resp: 541

Ion Ratio Lower Upper

50 100

52 49.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

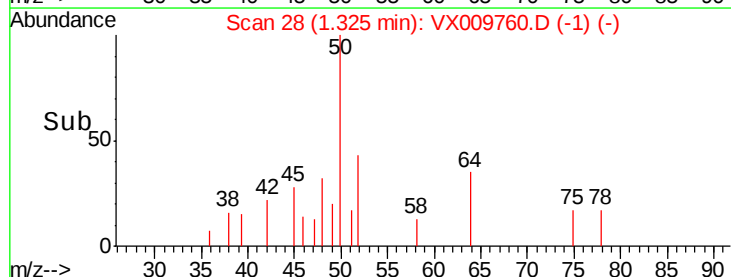
300

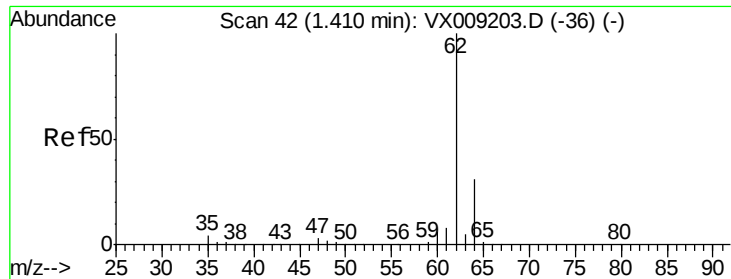
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 8.625 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampled :

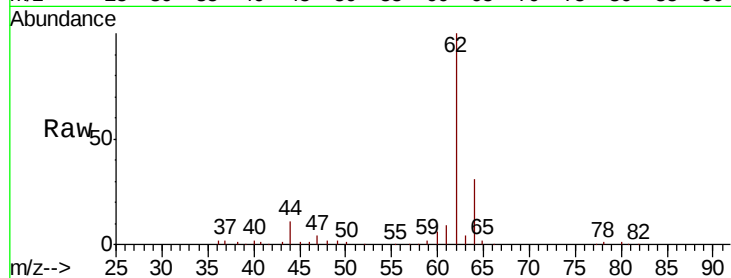
S36-0159

Tot Ion: 62 Resp: 18240

Ion Ratio Lower Upper

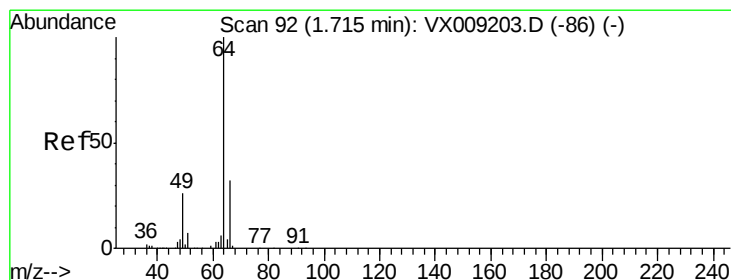
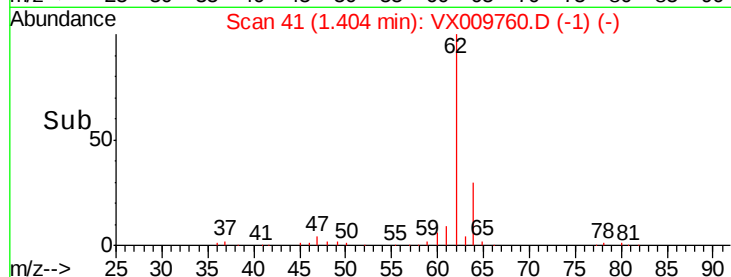
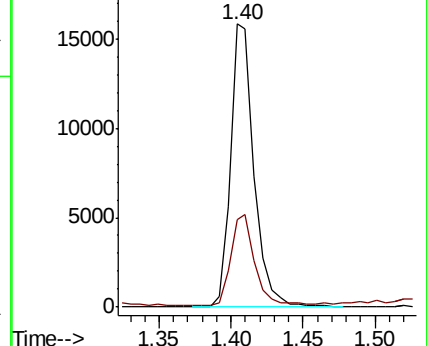
62 100

64 29.7 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 2.953 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX009760.D

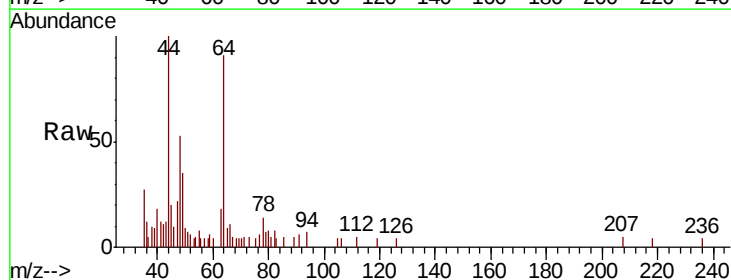
Acq: 21 May 2019 20:04

Tgt Ion: 64 Resp: 4010

Ion Ratio Lower Upper

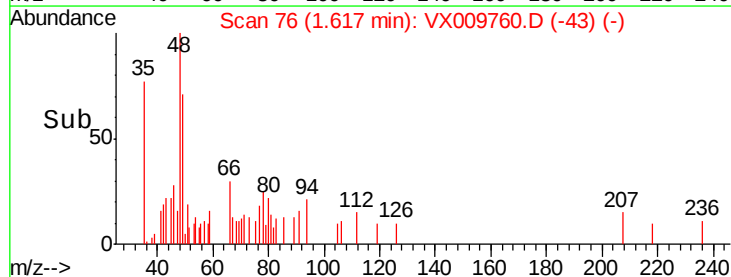
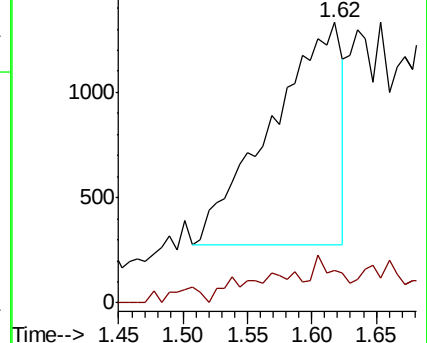
64 100

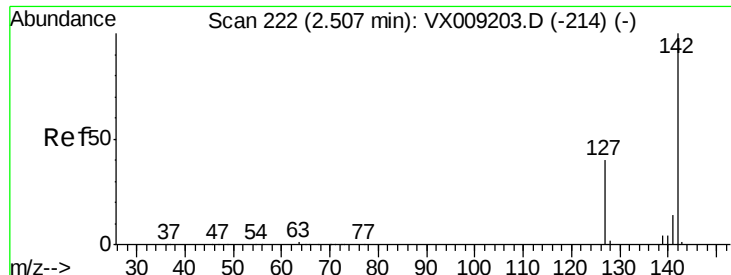
66 7.7 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

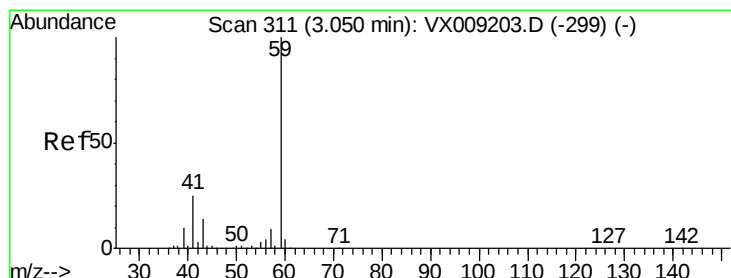
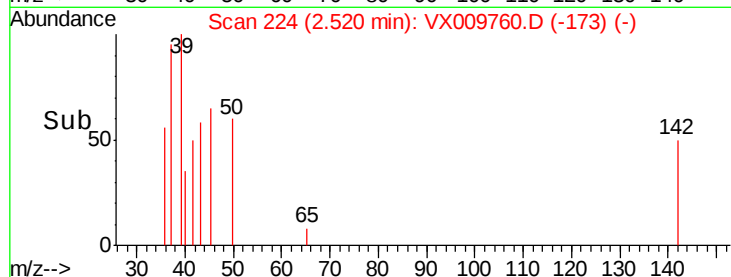
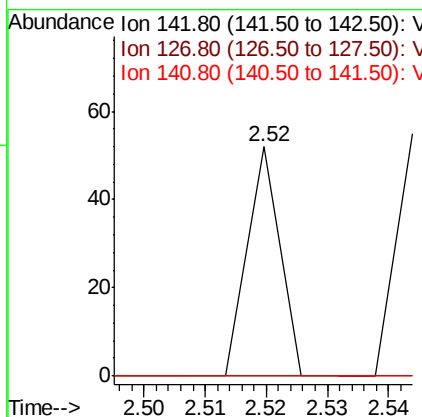
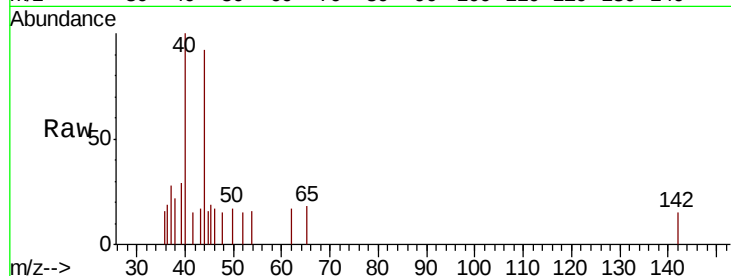




#10
Methvl Iodide
Concen: 4.603 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

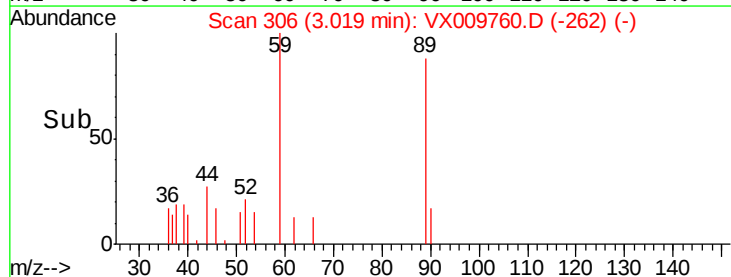
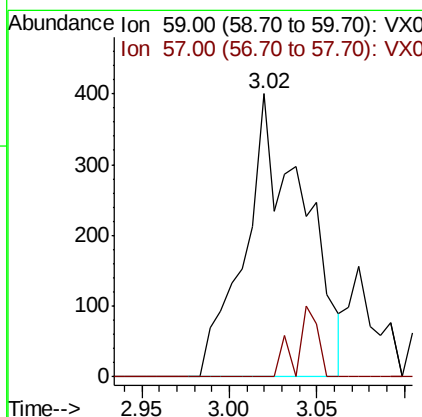
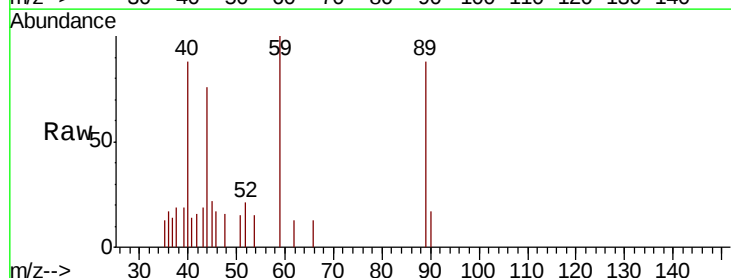
Instrument :
MSVOA_X
ClientSampleId :
S36-0159

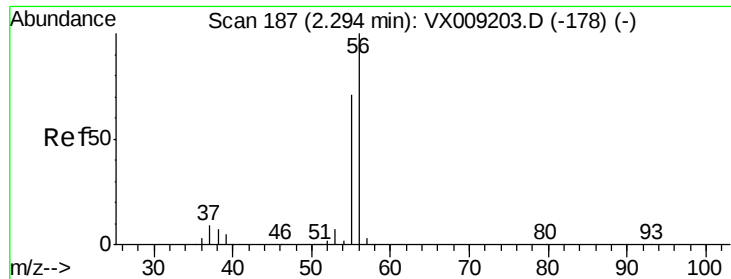
Tot Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.717 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion: 59 Resp: 935
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

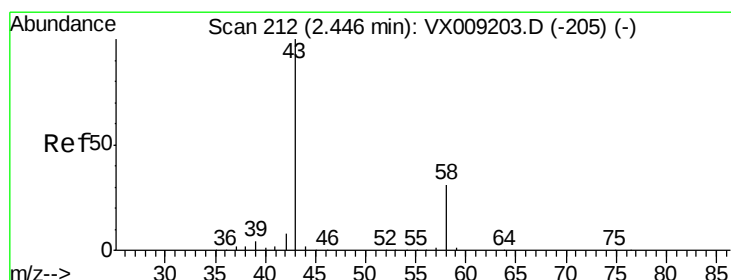
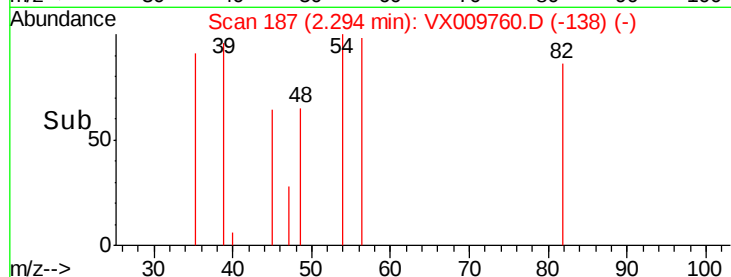
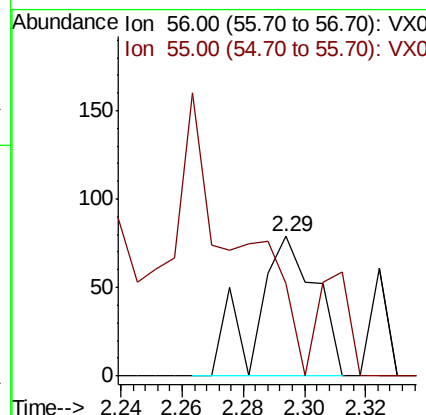
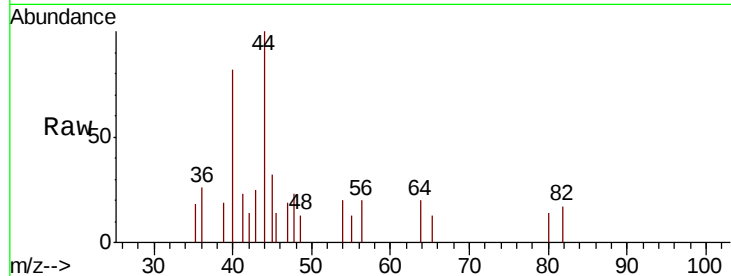




#13
Acrolein
Concen: 0.217 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

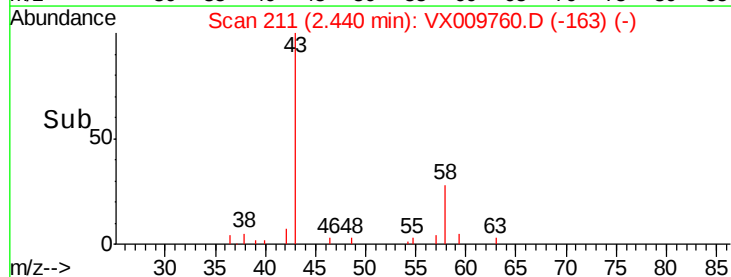
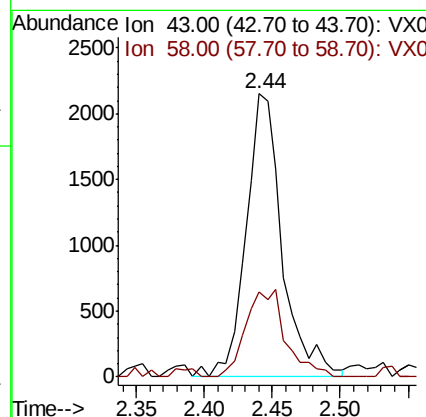
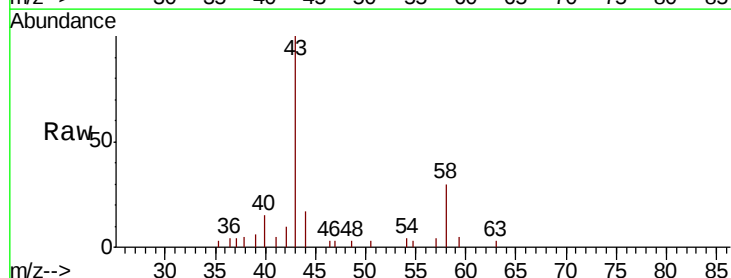
Instrument :
MSVOA_X
ClientSampled :
S36-0159

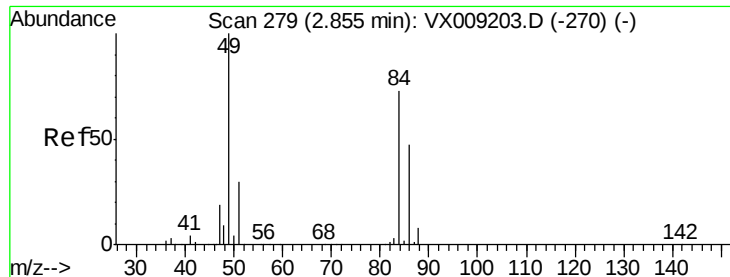
Tot Ion: 56 Resp: 107
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#



#16
Acetone
Concen: 3.170 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion: 43 Resp: 4006
Ion Ratio Lower Upper
43 100
58 29.9 24.9 37.3

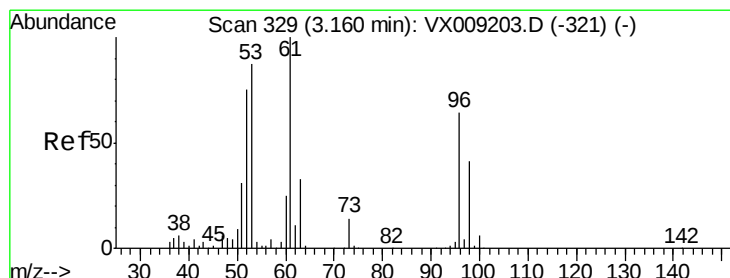
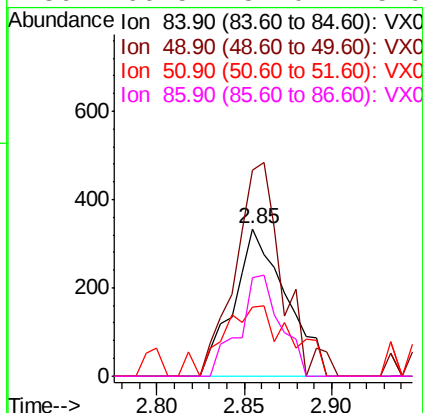
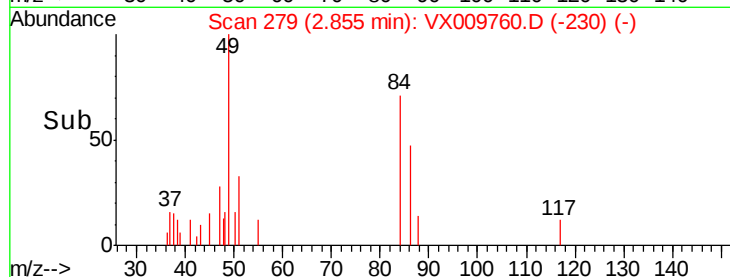
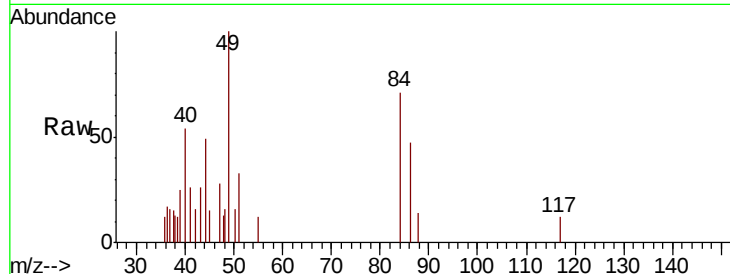




#20
Methylene Chloride
Concen: 0.340 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

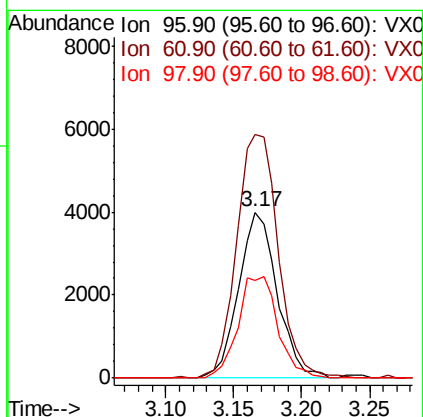
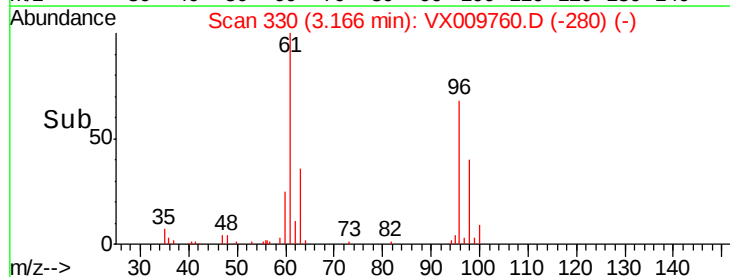
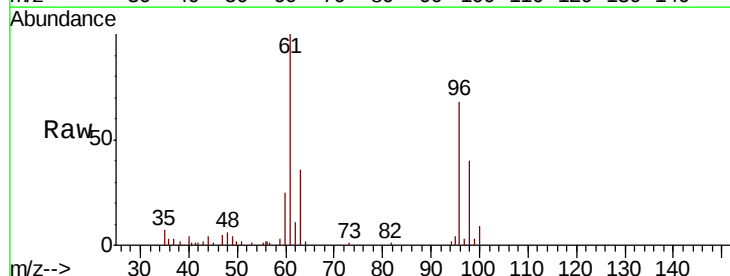
Instrument :
MSVOA_X
ClientSampled :
S36-0159

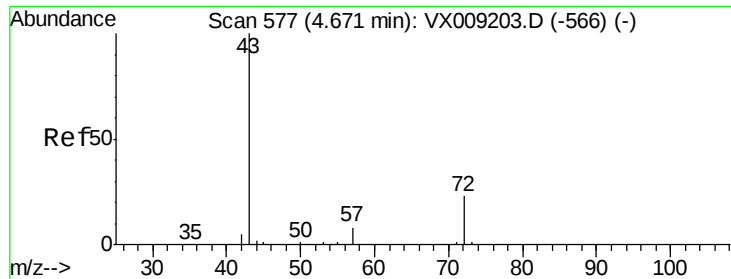
Tot Ion:	84	Resp:	696
Ion	Ratio	Lower	Upper
84	100		
49	140.1	109.9	164.9
51	46.4	32.7	49.1
86	66.5	52.0	78.0



#21
trans-1,2-Dichloroethene
Concen: 4.507 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion:	96	Resp:	7906
Ion	Ratio	Lower	Upper
96	100		
61	147.1	124.5	186.7
98	58.7	50.4	75.6





#25

2-Butanone

Concen: 0.229 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampled :

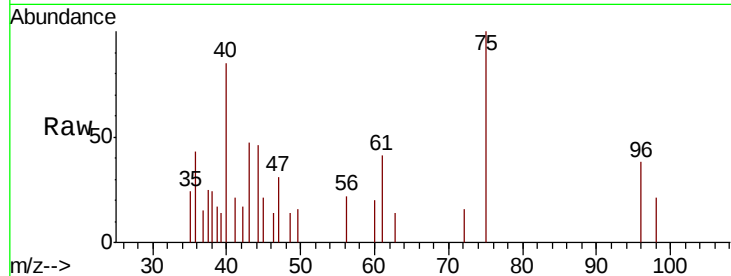
S36-0159

Tot Ion: 43 Resp: 450

Ion Ratio Lower Upper

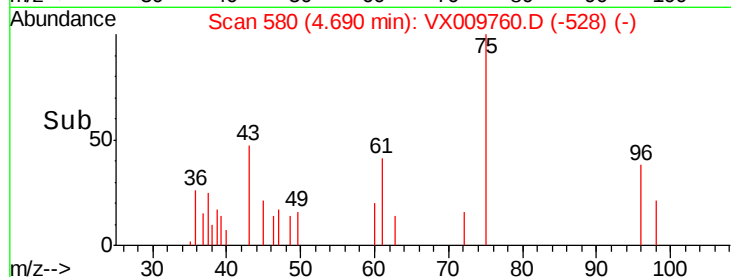
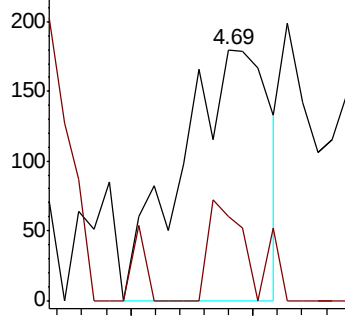
43 100

72 33.3 18.2 27.2#

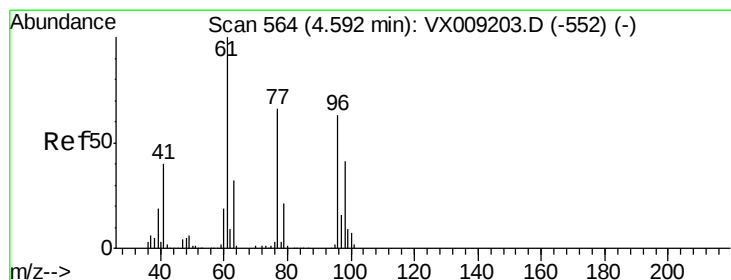


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 46.607 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

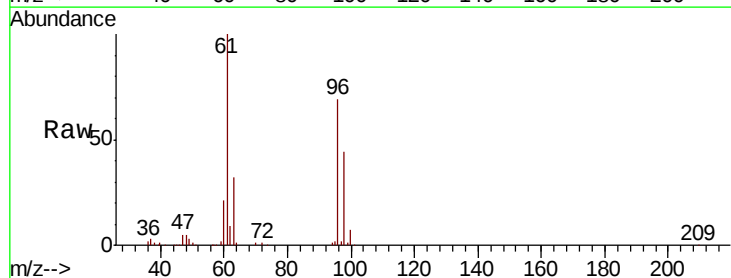
Tgt Ion: 96 Resp: 97580

Ion Ratio Lower Upper

96 100

61 144.9 0.0 324.0

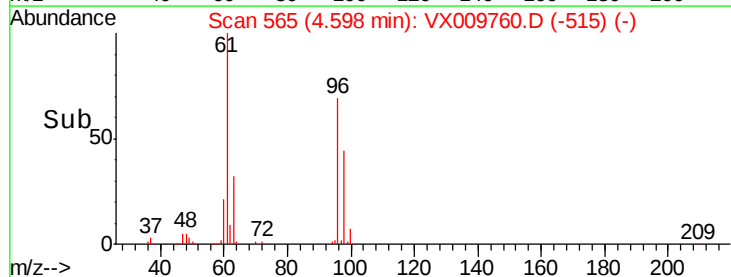
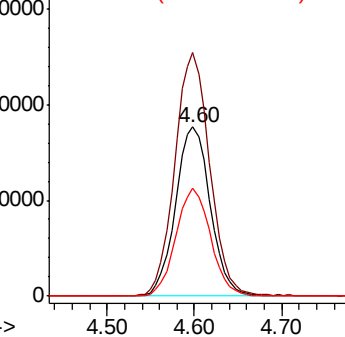
98 63.7 0.0 130.4



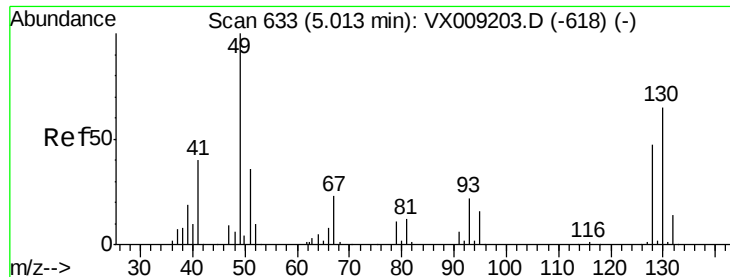
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

S36-0159

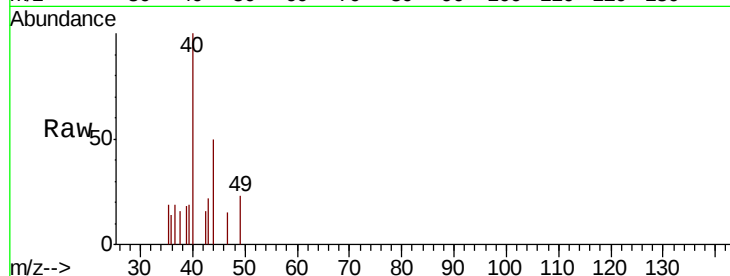
Tot Ion: 49 Resp: 53

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

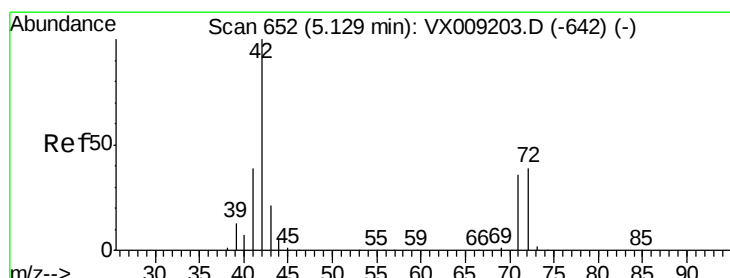
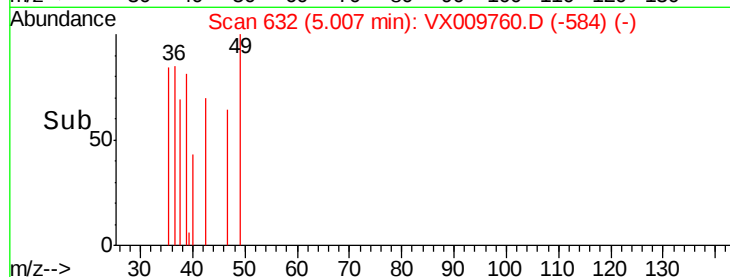
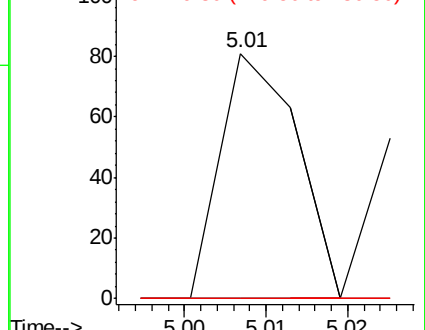
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.264 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

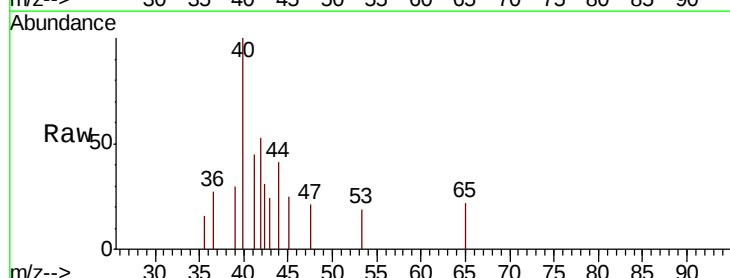
Tgt Ion: 42 Resp: 334

Ion Ratio Lower Upper

42 100

72 38.6 30.4 45.6

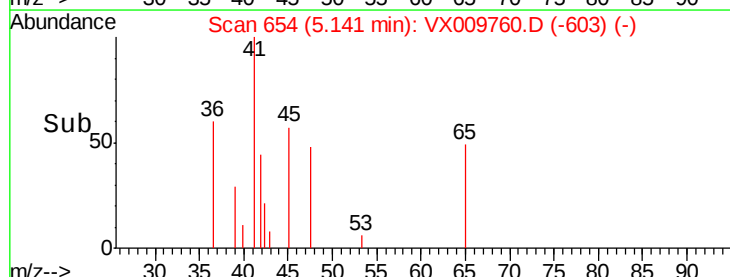
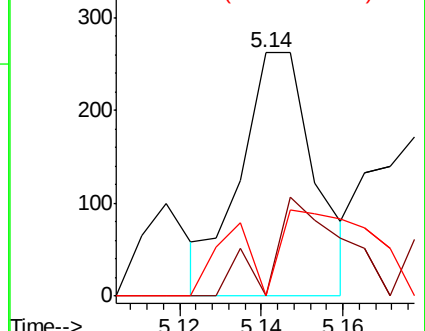
71 42.5 28.6 43.0

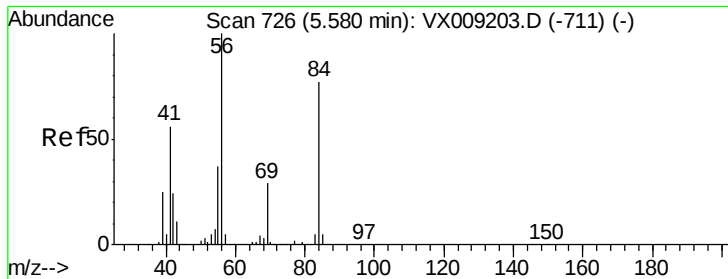


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.278 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

S36-0159

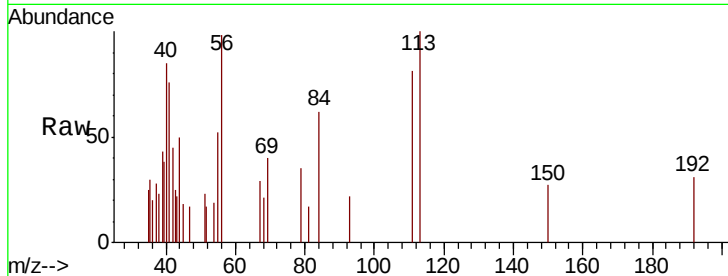
Tot Ion: 56 Resp: 968

Ion Ratio Lower Upper

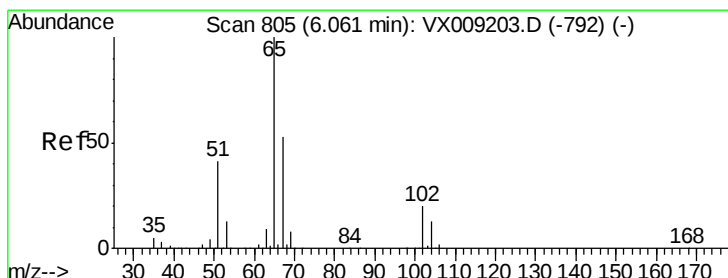
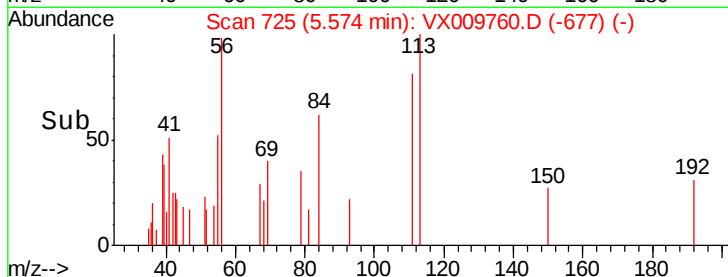
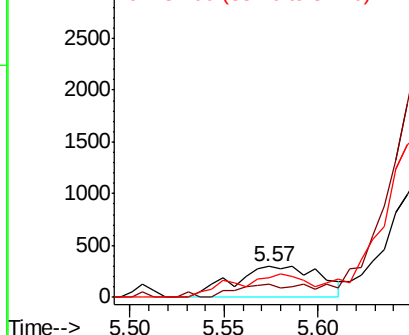
56 100

69 24.1 23.4 35.0

84 63.7 61.9 92.9



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: 49.165 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009760.D

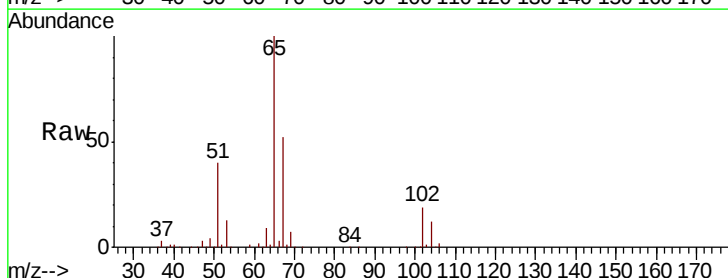
Acq: 21 May 2019 20:04

Tgt Ion: 65 Resp: 115694

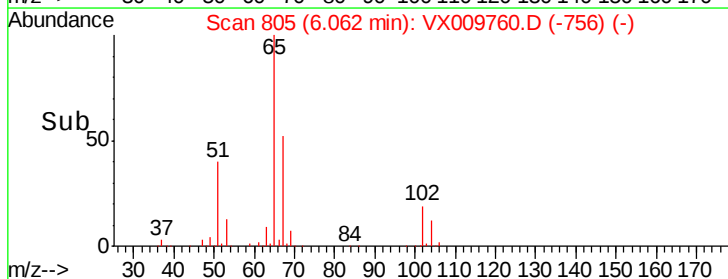
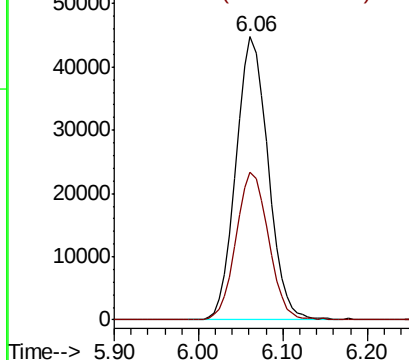
Ion Ratio Lower Upper

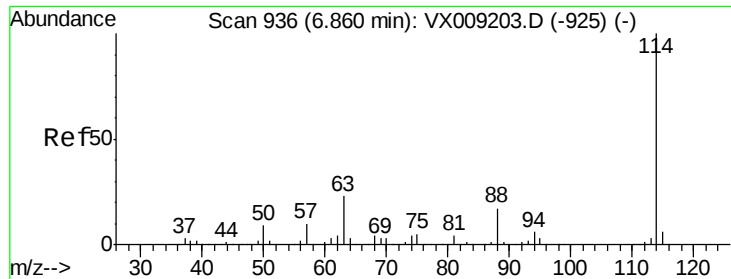
65 100

67 52.8 0.0 106.6



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

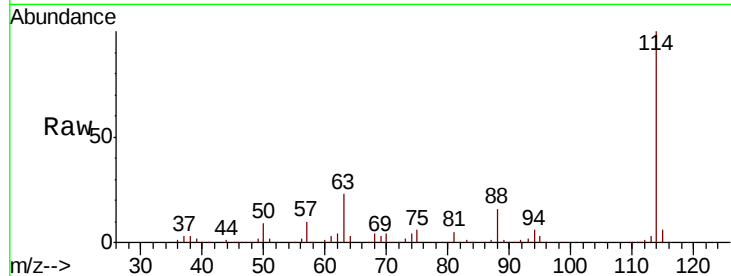




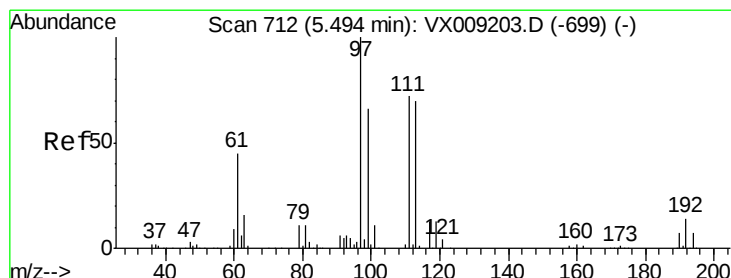
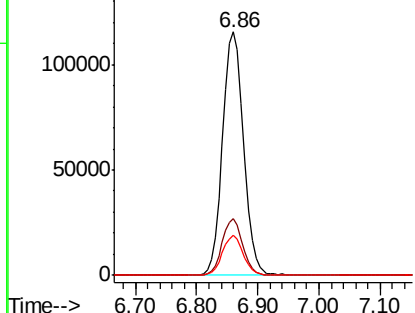
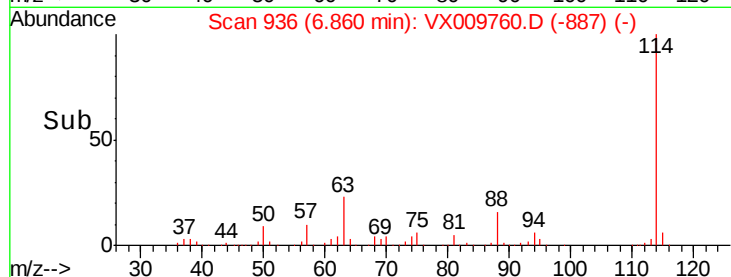
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009760.D
 Acq: 21 May 2019 20:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0159

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	45.6
88	16.4	0.0	33.2

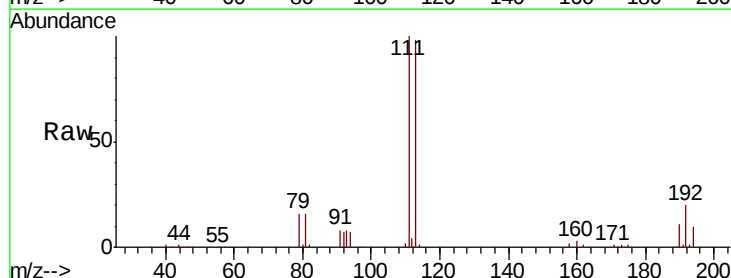


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

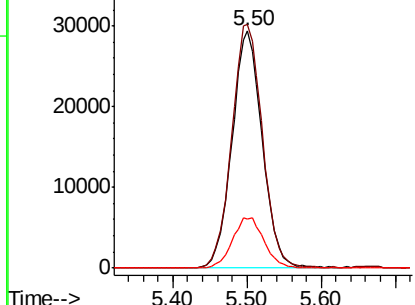
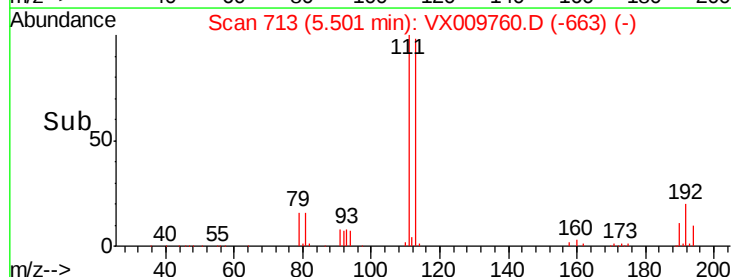


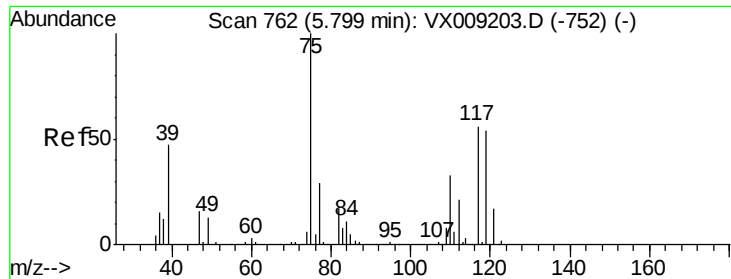
#35
 Dibromofluoromethane
 Concen: 48.304 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009760.D
 Acq: 21 May 2019 20:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.8	124.2
192	22.3	17.0	25.6



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: 5.420 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

S36-0159

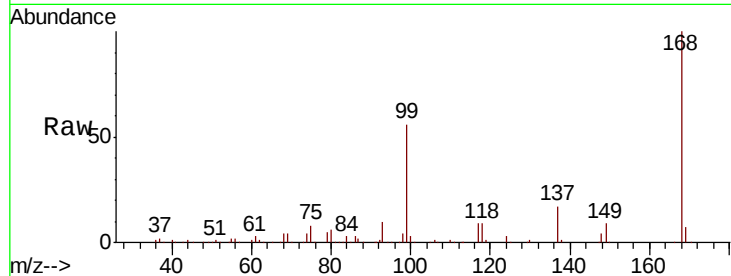
Tot Ion: 75 Resp: 13831

Ion Ratio Lower Upper

75 100

110 8.4 16.9 50.6#

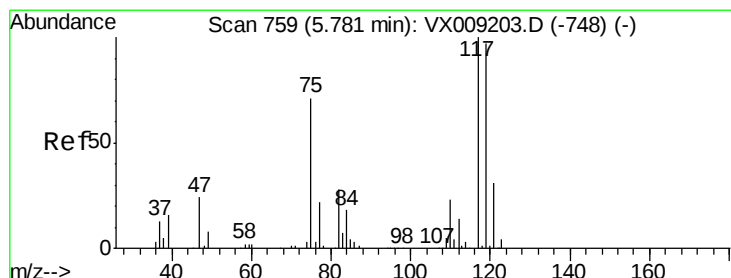
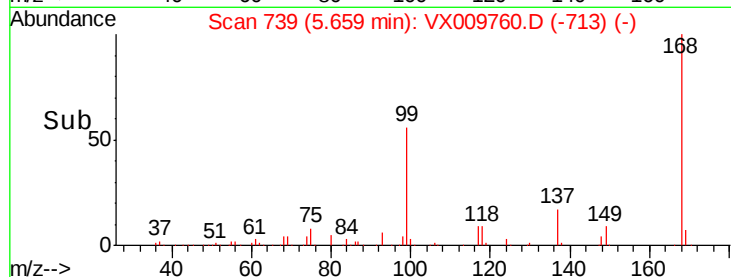
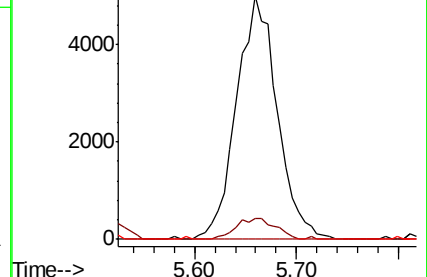
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX009203.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX009203.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX009203.D (-752) (-)



#38

Carbon Tetrachloride

Concen: 6.905 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

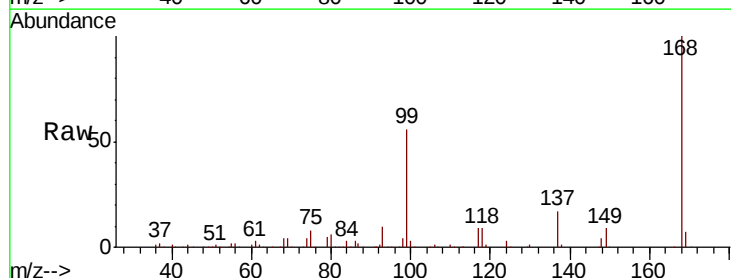
Tgt Ion: 117 Resp: 16010

Ion Ratio Lower Upper

117 100

119 5.9 77.5 116.3#

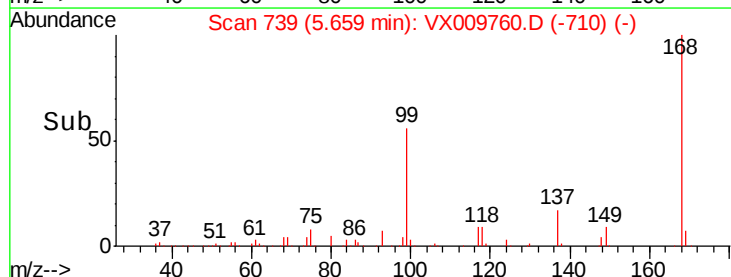
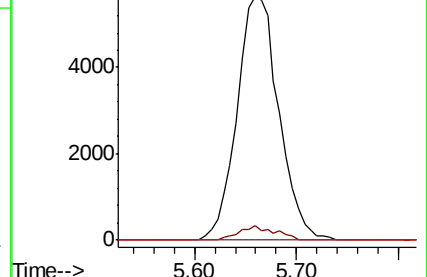
121 0.0 24.7 37.1#

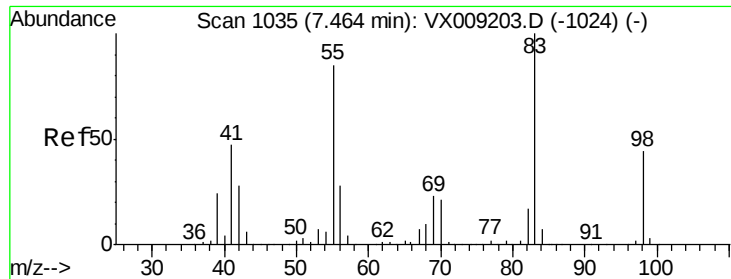


Abundance Ion 116.80 (116.50 to 117.50): VX009203.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX009203.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009203.D (-748) (-)

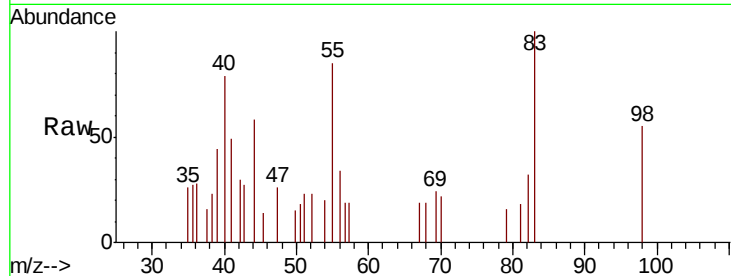




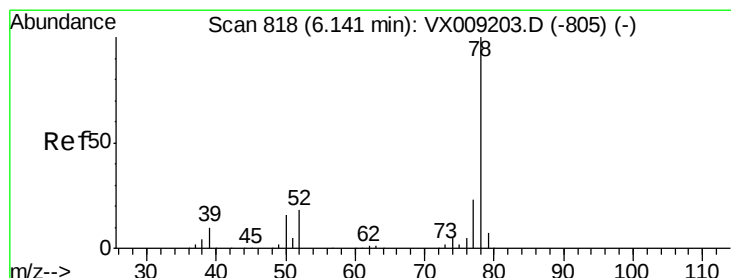
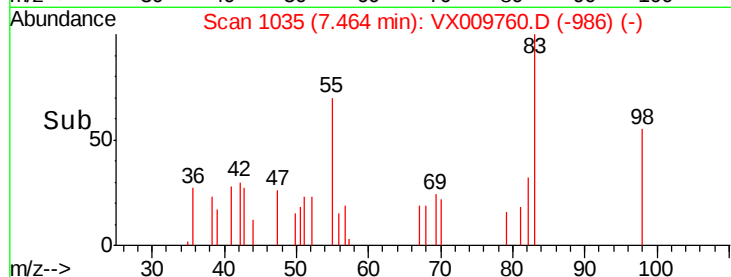
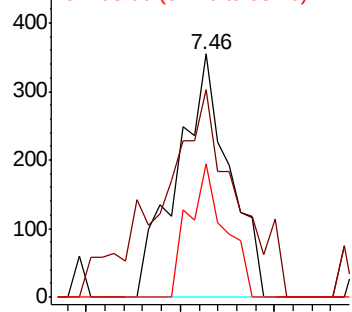
#39
Methvlcvclohexane
Concen: 0.216 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Instrument :
MSVOA_X
ClientSampled :
S36-0159

Tot Ion: 83 Resp: 676
Ion Ratio Lower Upper
83 100
55 70.4 67.7 101.5
98 54.6 35.5 53.3#

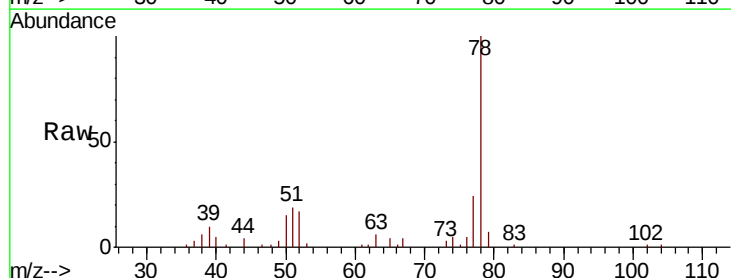


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

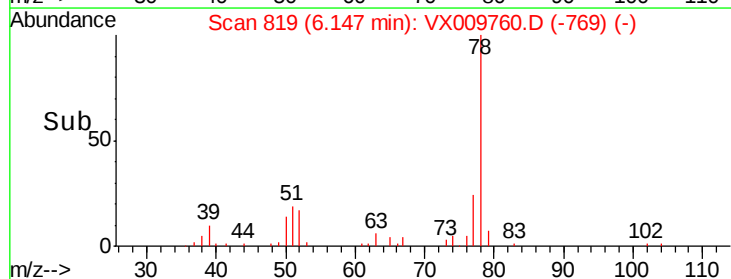
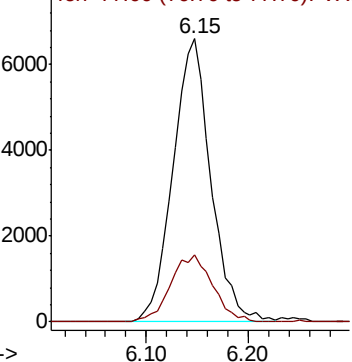


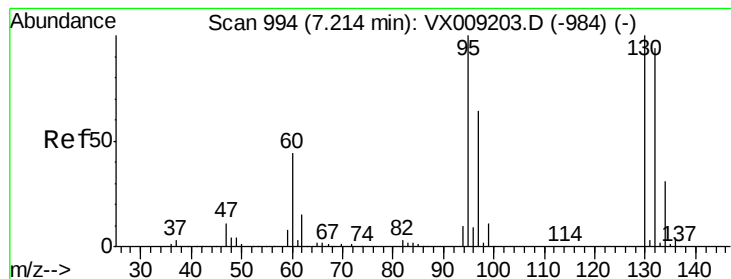
#40
Benzene
Concen: 2.151 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion: 78 Resp: 16990
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.325 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

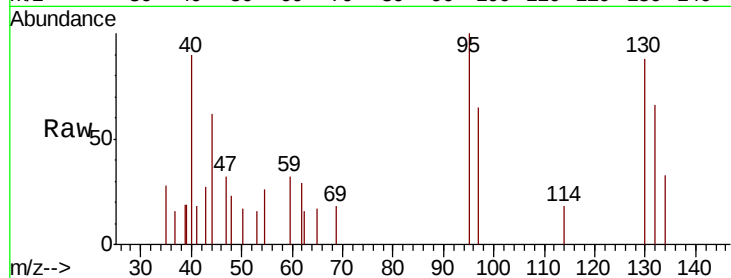
S36-0159

Tot Ion:130 Resp: 620

Ion Ratio Lower Upper

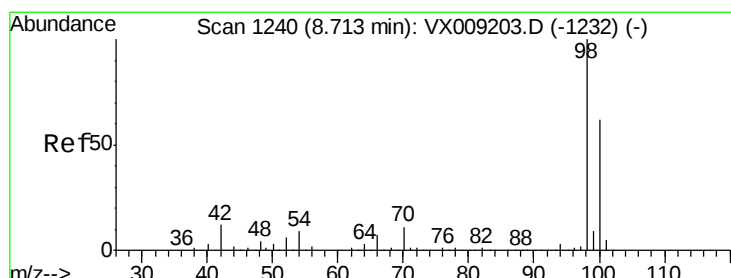
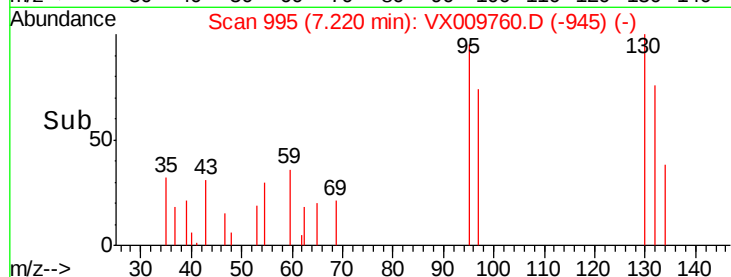
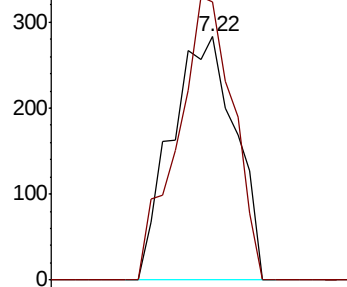
130 100

95 114.1 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.645 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009760.D

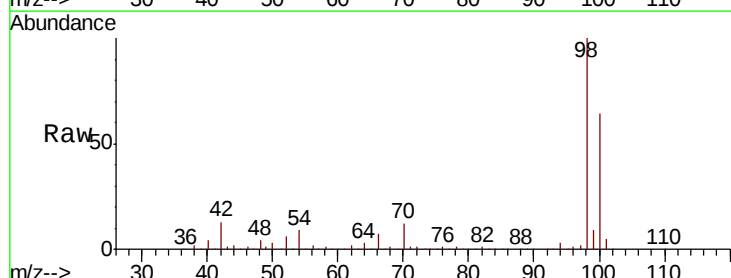
Acq: 21 May 2019 20:04

Tgt Ion: 98 Resp: 346000

Ion Ratio Lower Upper

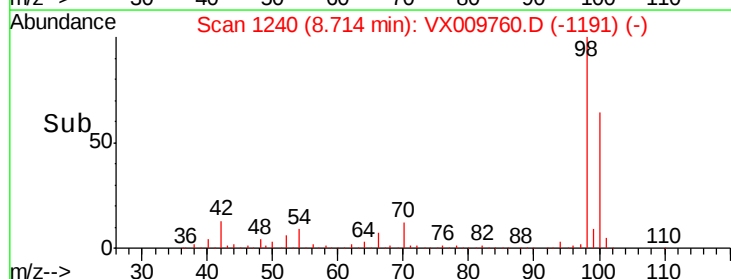
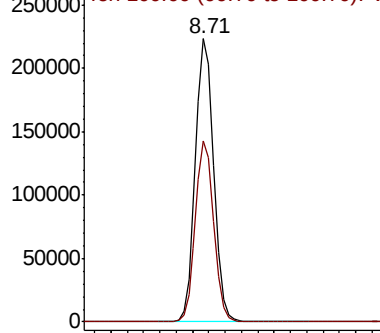
98 100

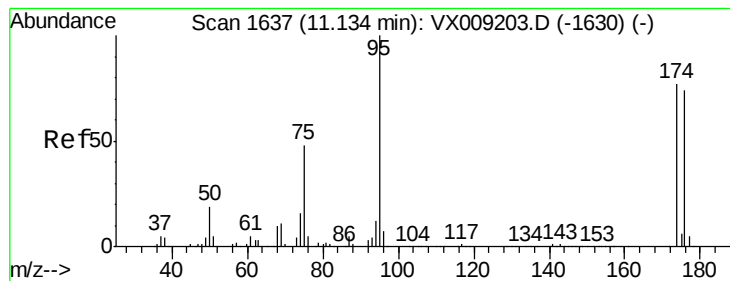
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.052 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

S36-0159

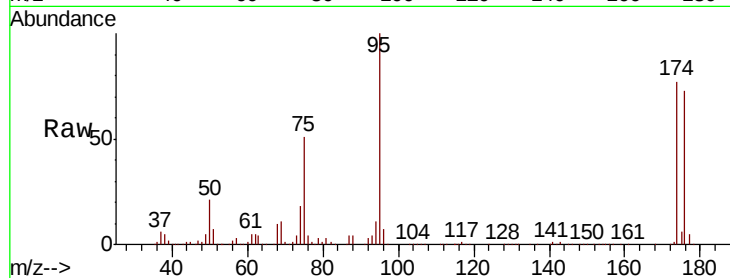
Tot Ion: 95 Resp: 114092

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

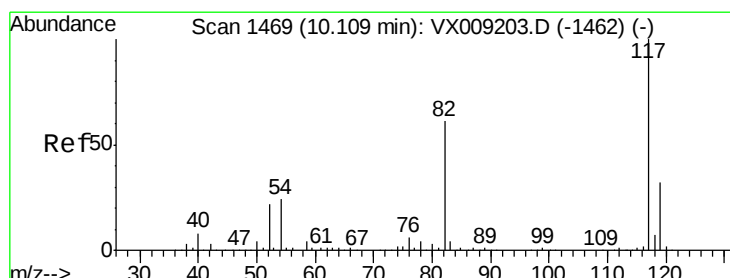
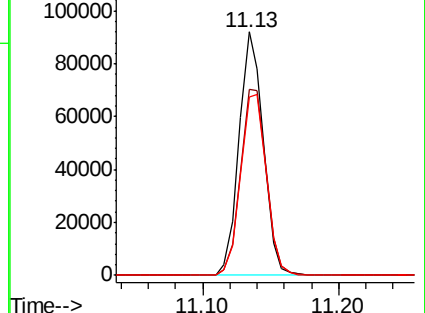
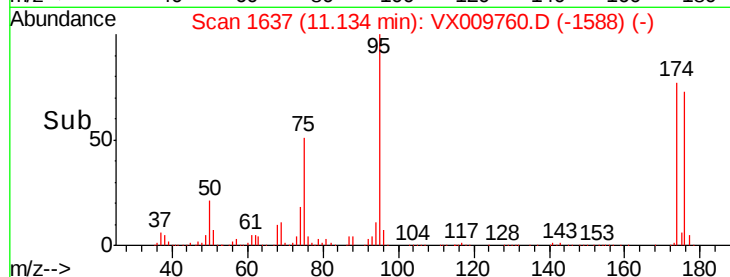
176 78.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009760.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009760.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009760.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009760.D

Acq: 21 May 2019 20:04

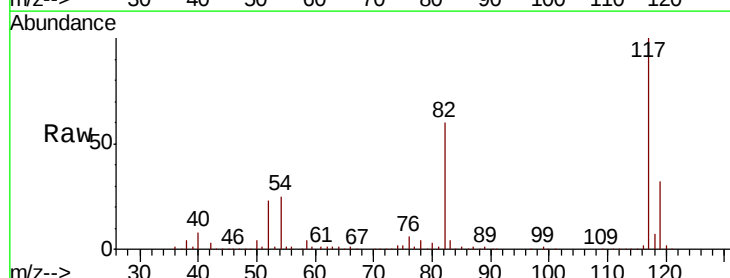
Tgt Ion: 117 Resp: 240879

Ion Ratio Lower Upper

117 100

82 60.5 48.8 73.2

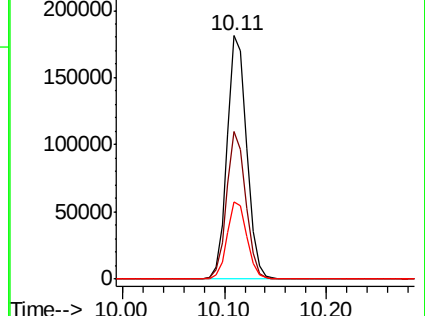
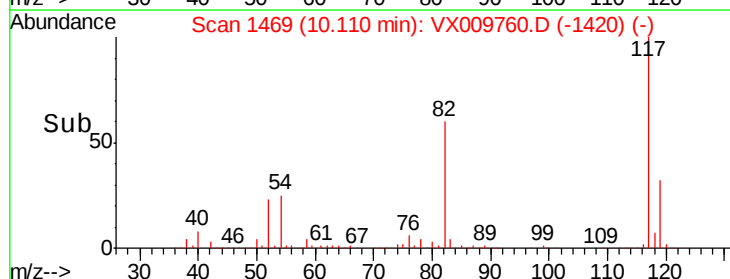
119 31.6 25.8 38.6

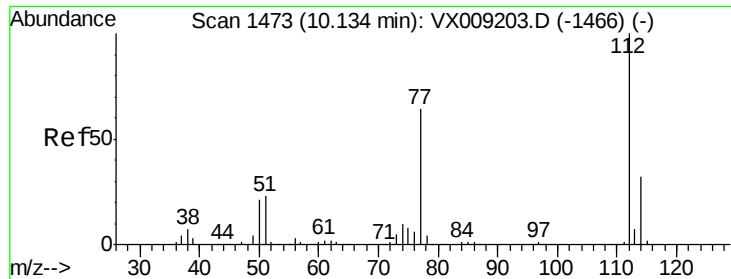


Abundance Ion 116.90 (116.60 to 117.60): VX009760.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009760.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009760.D (-1420) (-)

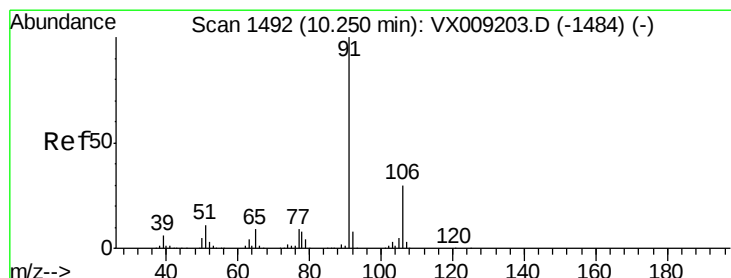
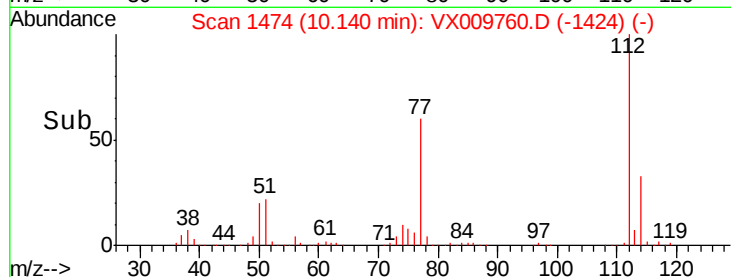
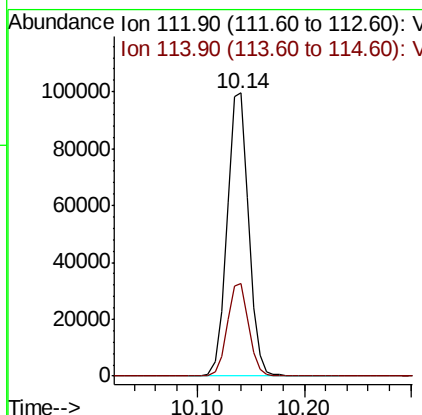
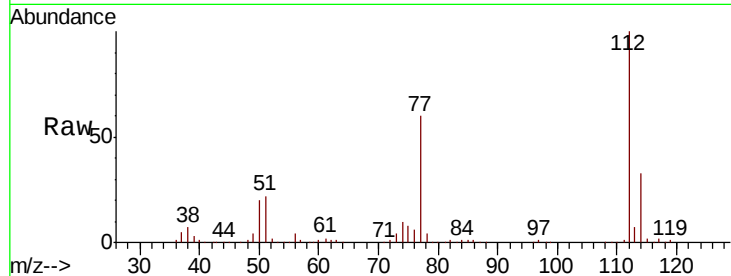




#65
Chlorobenzene
Concen: 29.287 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

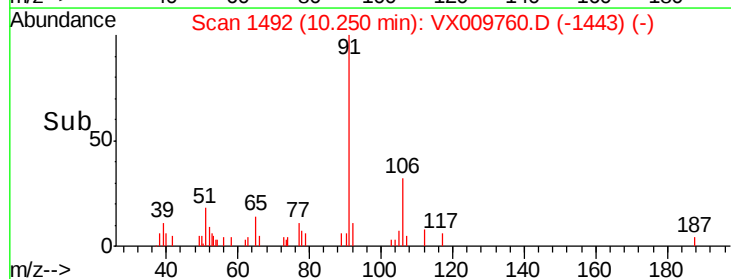
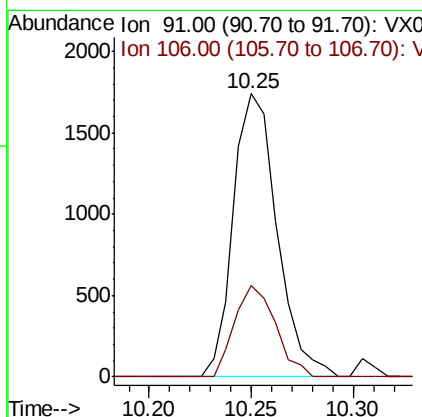
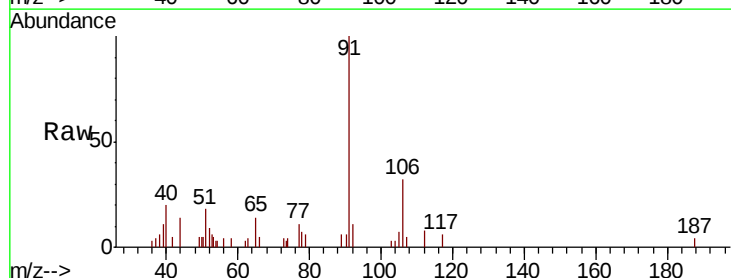
Instrument :
MSVOA_X
ClientSampled :
S36-0159

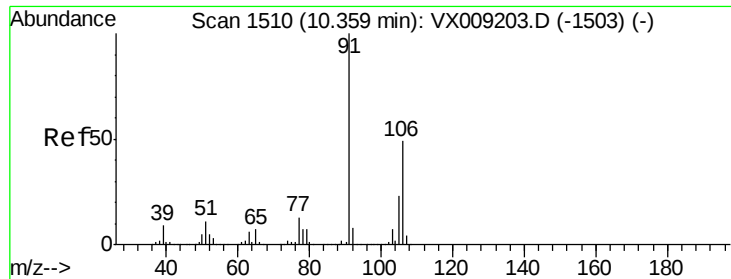
Tot Ion:112 Resp: 141125
Ion Ratio Lower Upper
112 100
114 32.7 25.5 38.3



#67
Ethyl Benzene
Concen: 0.292 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion: 91 Resp: 2592
Ion Ratio Lower Upper
91 100
106 32.2 24.0 36.0

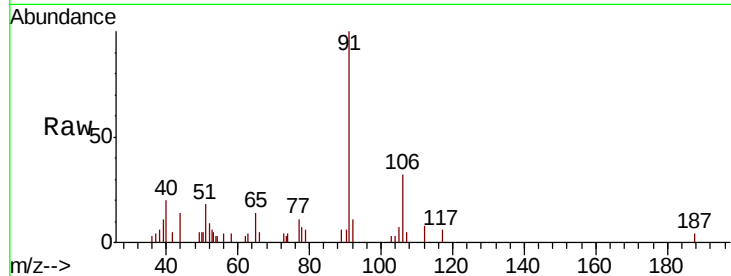




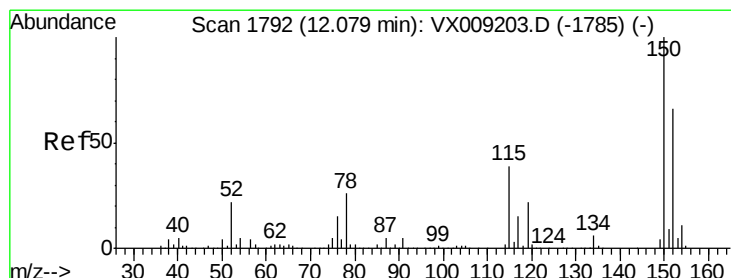
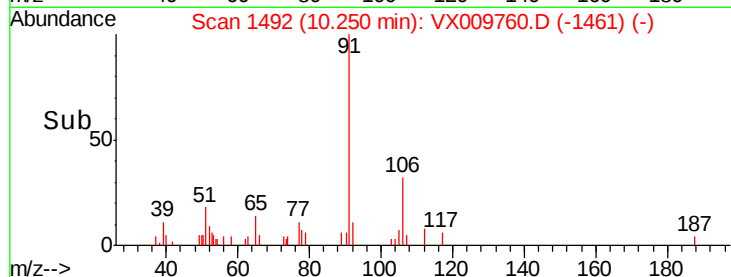
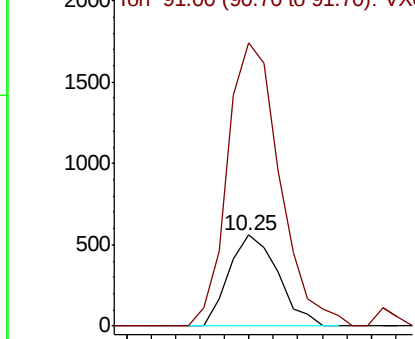
#68
m/p-Xvlenes
Concen: 0.241 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.11 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Instrument :
MSVOA_X
ClientSampled :
S36-0159

Tot Ion:106 Resp: 781
Ion Ratio Lower Upper
106 100
91 331.9 164.0 246.0#

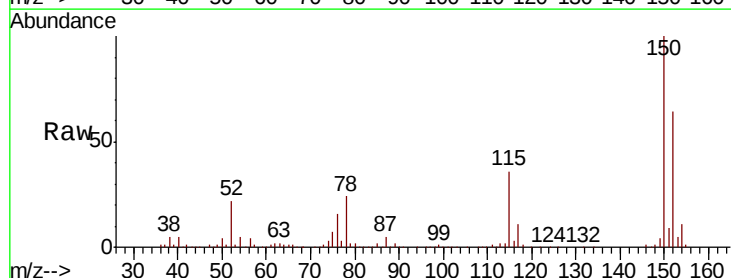


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

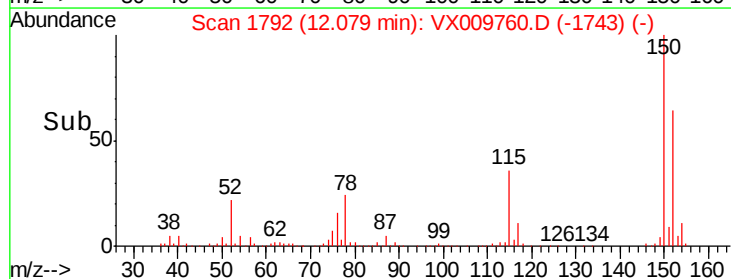
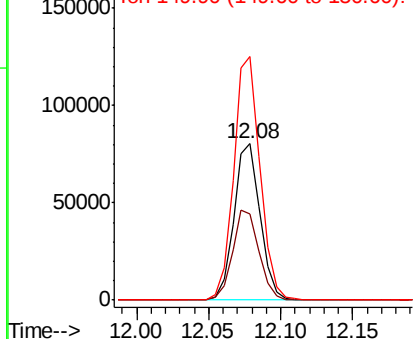


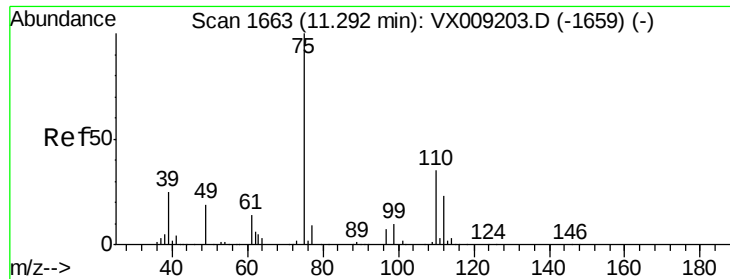
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009760.D
Acq: 21 May 2019 20:04

Tgt Ion:152 Resp: 101844
Ion Ratio Lower Upper
152 100
115 58.6 41.2 123.6
150 157.1 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

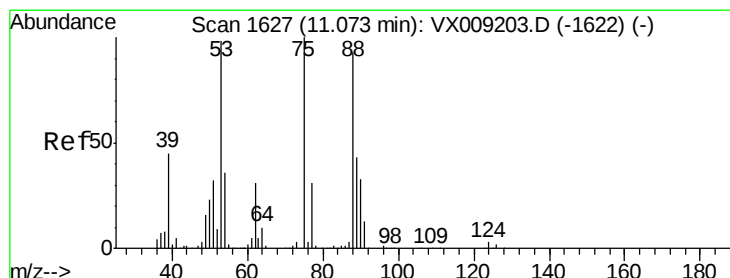
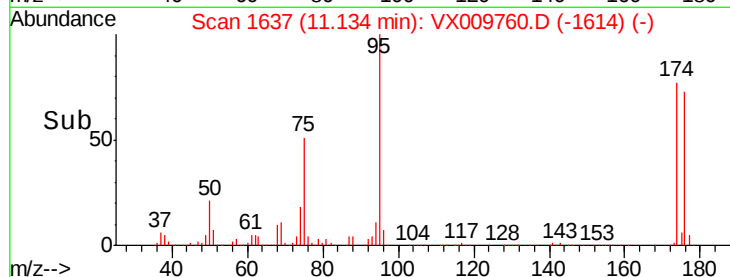
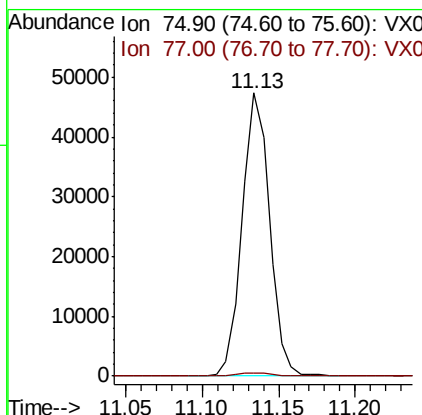
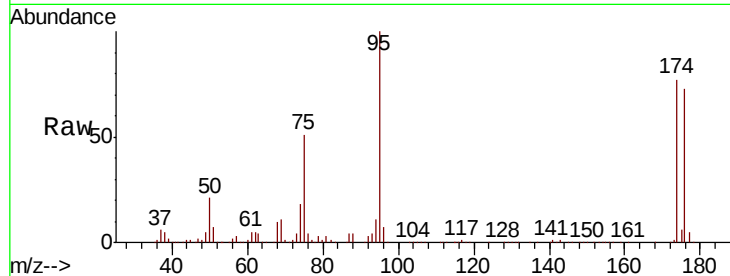




#76
 1,2,3-Trichloropropane
 Concen: 25.029 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009760.D
 Acq: 21 May 2019 20:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-0159

Tot Ion: 75 Resp: 59130
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.041 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009760.D
 Acq: 21 May 2019 20:04

Tgt Ion: 75 Resp: 59130
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.0 118.6#
 89 0.0 34.7 52.1#

