

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012764.D
 Acq On : 02 Oct 2019 16:49
 Operator : JC/SP
 Sample : K5154-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 03 01:33:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	167904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285542	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	88819	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116030	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
35) Dibromofluoromethane	5.49	113	87878	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	8.71	98	335909	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	11.14	95	109324	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	

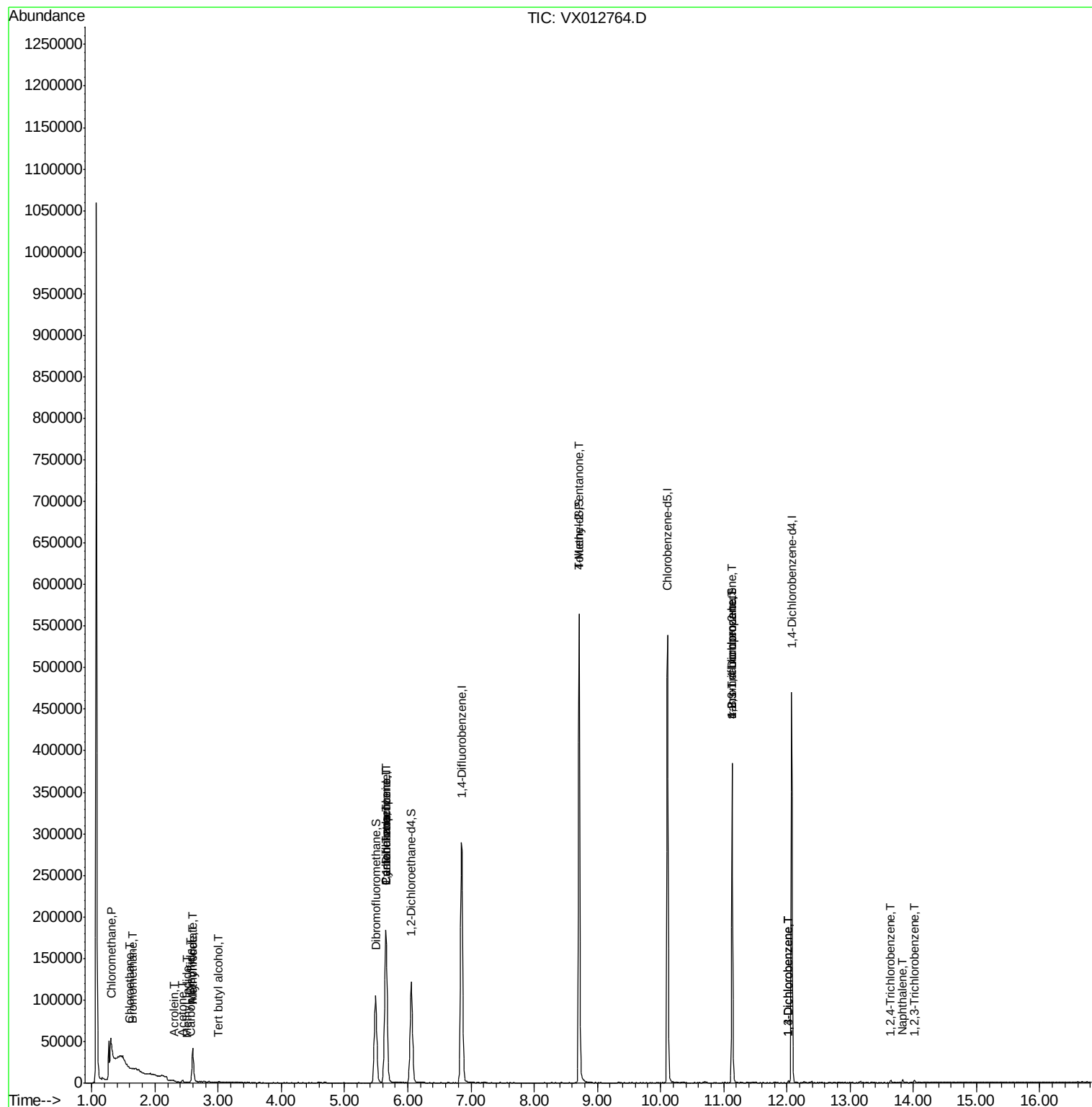
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1674	0.772	ug/l #	61
5) Bromomethane	1.64	94	416	0.491	ug/l #	71
6) Chloroethane	1.61	64	2313	1.591	ug/l #	45
10) Methyl Iodide	2.50	142	105	5.002	ug/l #	82
11) Tert butyl alcohol	3.00	59	450	0.737	ug/l #	72
13) Acrolein	2.30	56	25	10.303	ug/l #	15
14) Allyl chloride	2.59	41	4342	1.212	ug/l #	72
16) Acetone	2.43	43	2248	1.736	ug/l #	79
17) Carbon Disulfide	2.56	76	2062	0.407	ug/l #	82
18) Methyl Acetate	2.60	43	11824	3.877	ug/l #	54
31) Cyclohexane	5.65	56	3832	1.126	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13704	4.979	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17629	6.305	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1490	0.449	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	56387	24.000	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	56387	68.778	ug/l #	8
87) 1,3-Dichlorobenzene	12.02	146	744	0.253	ug/l	98
88) 1,4-Dichlorobenzene	12.02	146	744	0.250	ug/l	97
93) 1,2,4-Trichlorobenzene	13.65	180	768	0.427	ug/l	75
95) Naphthalene	13.83	128	2244	0.345	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	863	0.479	ug/l	83

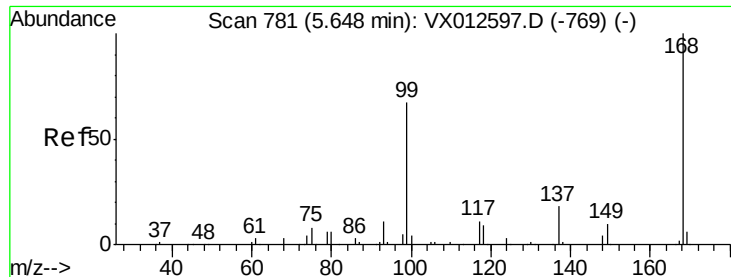
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

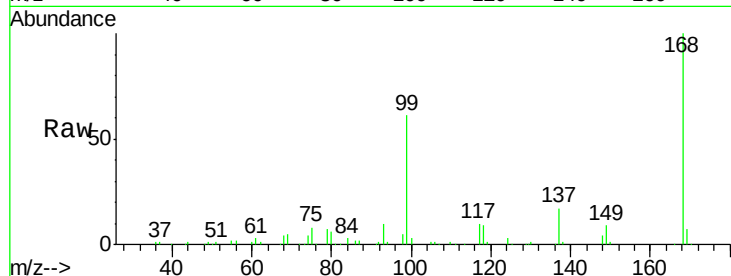
ClientSampleId :

Tot Ion:168 Resp: 167904

Ion Ratio Lower Upper

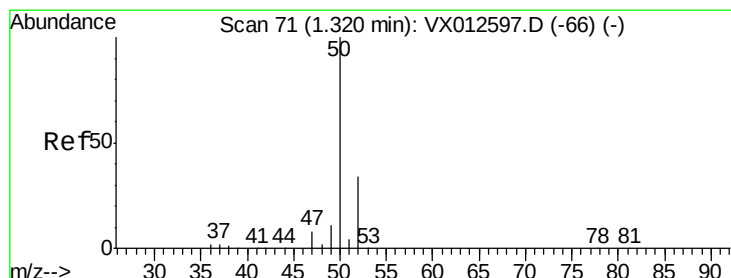
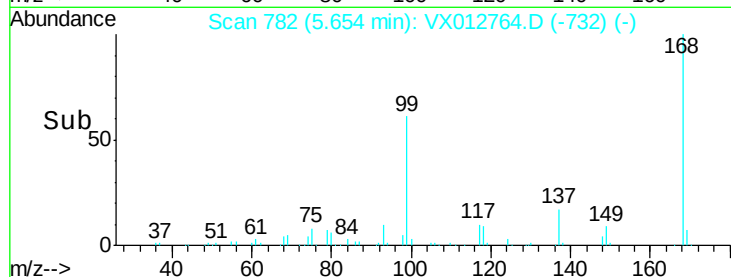
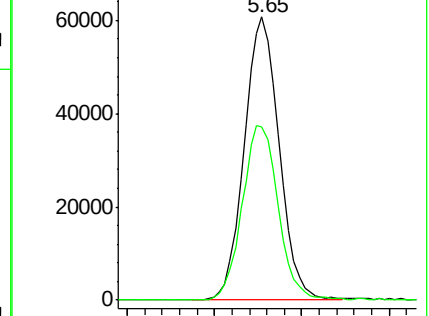
168 100

99 61.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.772 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012764.D

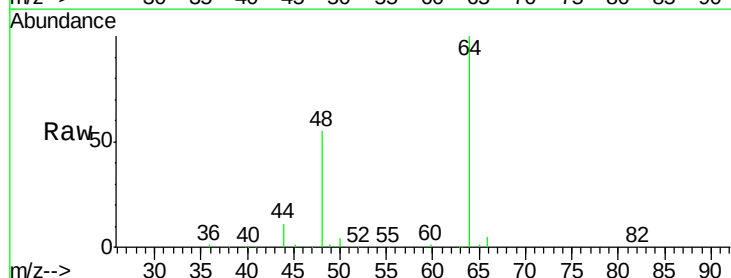
Acq: 02 Oct 2019 16:49

Tgt Ion: 50 Resp: 1674

Ion Ratio Lower Upper

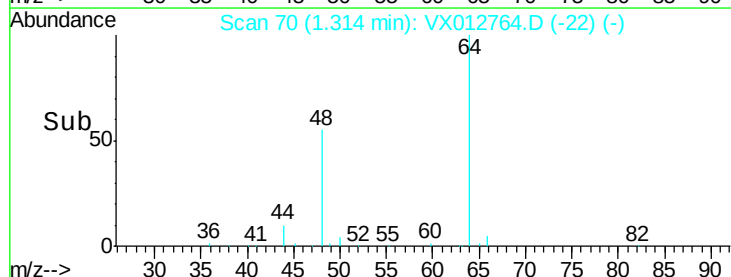
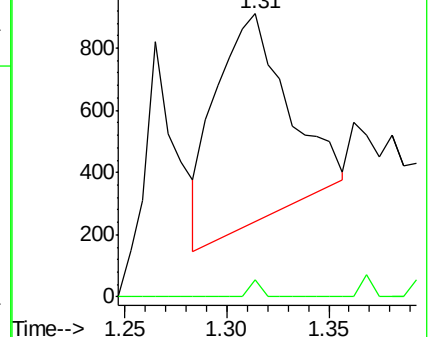
50 100

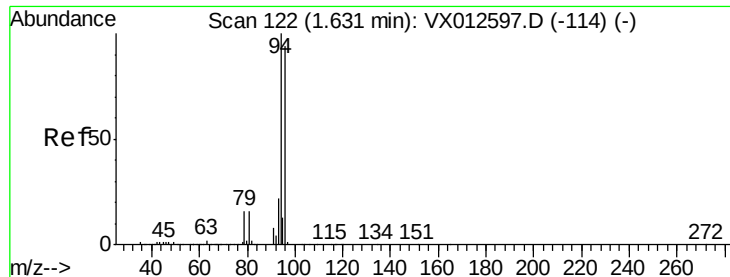
52 10.3 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.491 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

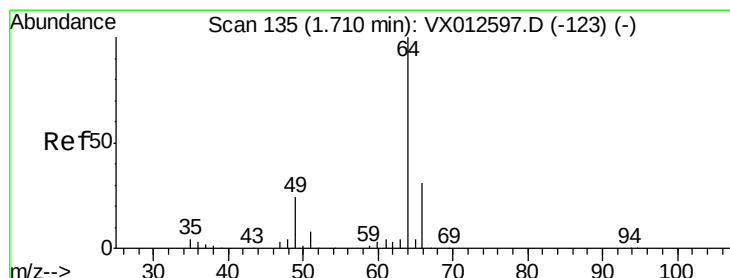
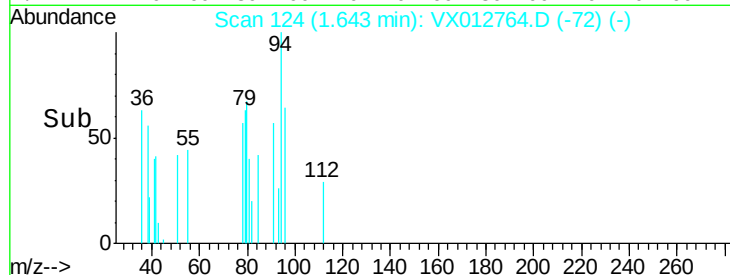
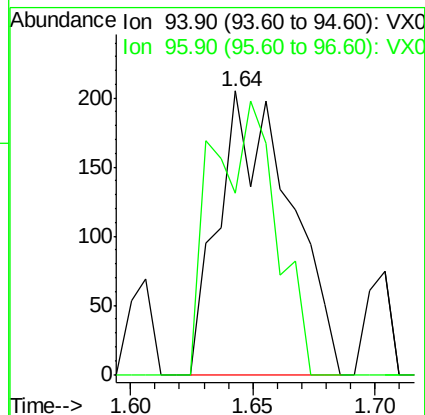
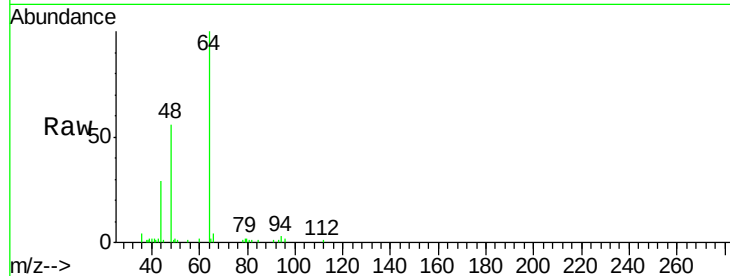
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 416

Ion Ratio Lower Upper

94 100

96 63.9 72.8 109.2#



#6

Chloroethane

Concen: 1.591 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.10 min

Lab File: VX012764.D

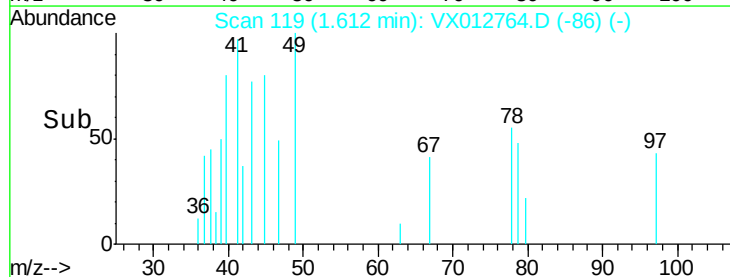
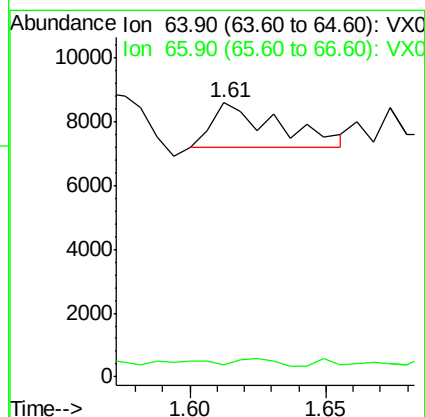
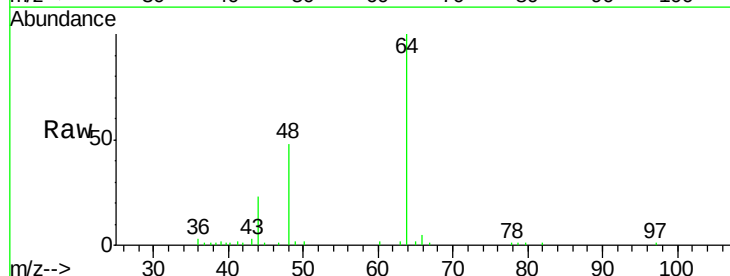
Acq: 02 Oct 2019 16:49

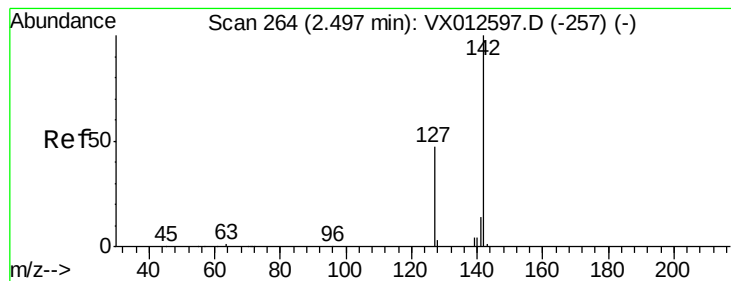
Tgt Ion: 64 Resp: 2313

Ion Ratio Lower Upper

64 100

66 0.4 24.0 36.0#





#10

Methyl Iodide

Concen: 5.002 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

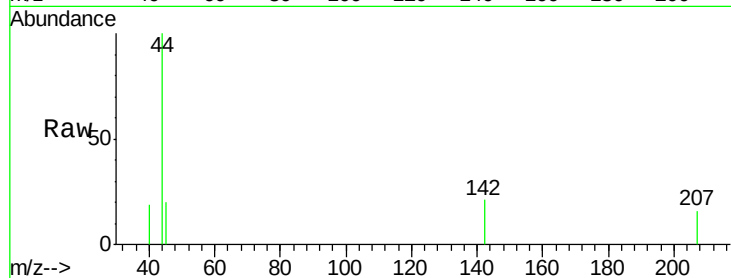
Tot Ion:142 Resp: 105

Ion Ratio Lower Upper

142 100

127 41.9 40.8 61.2

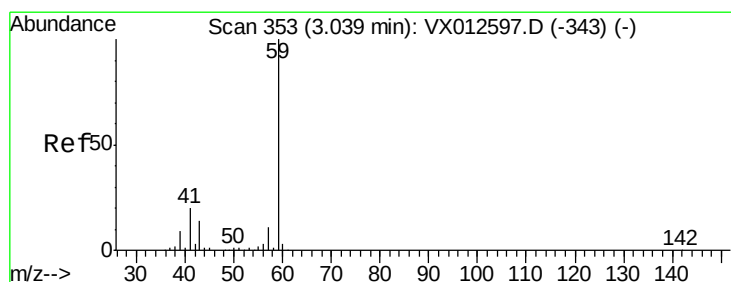
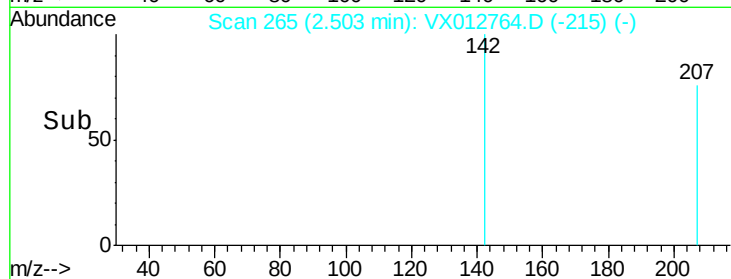
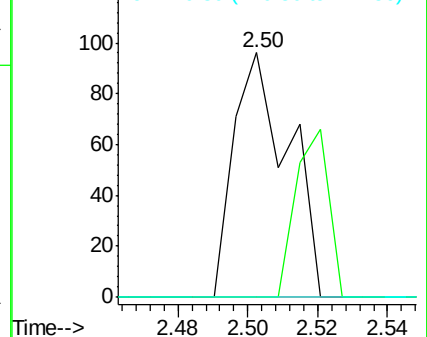
141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.737 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX012764.D

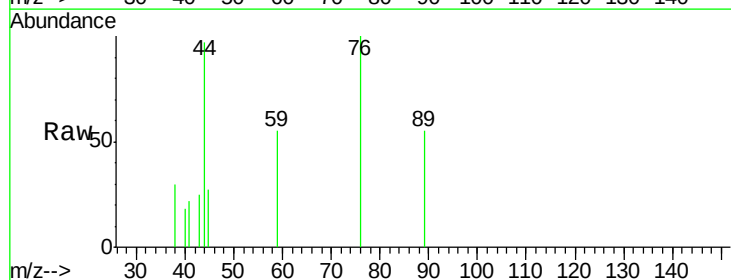
Acq: 02 Oct 2019 16:49

Tgt Ion: 59 Resp: 450

Ion Ratio Lower Upper

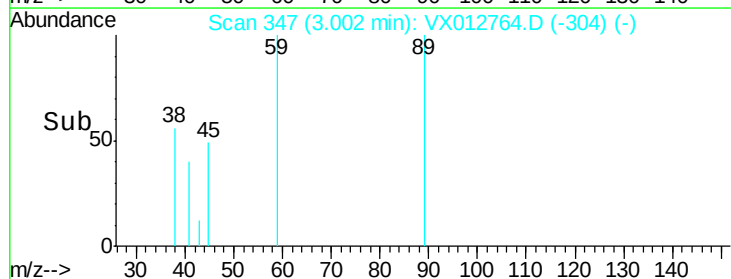
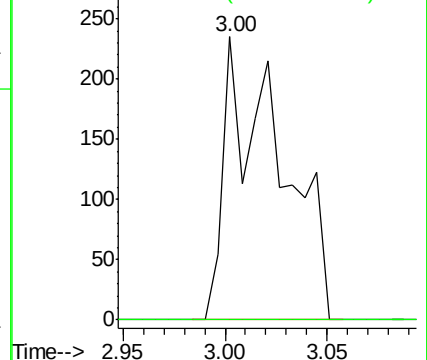
59 100

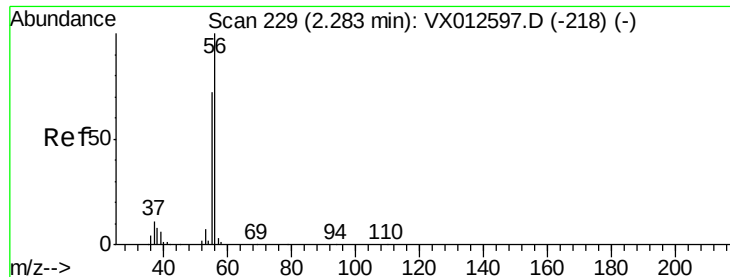
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.303 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

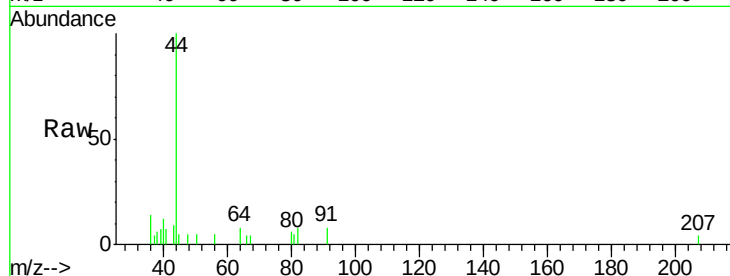
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 25

Ion Ratio Lower Upper

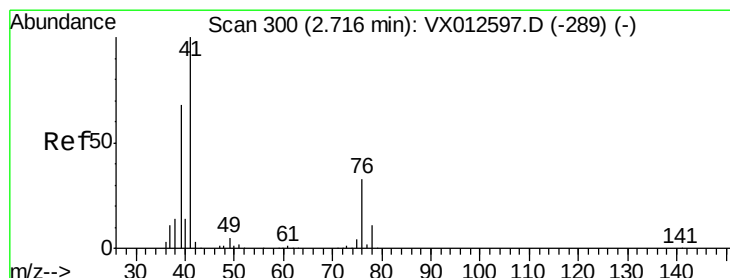
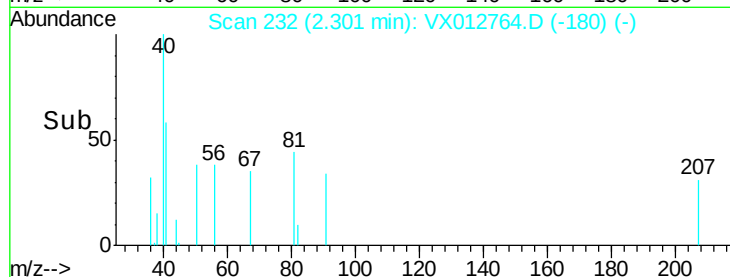
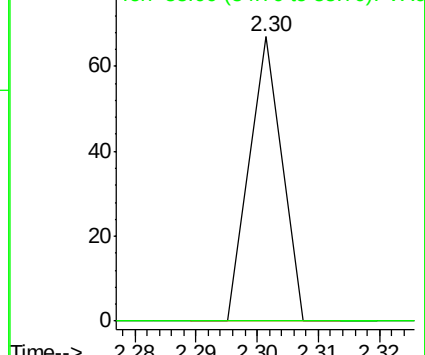
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 1.212 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

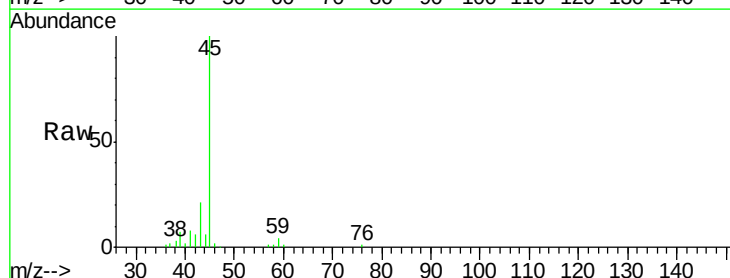
Tgt Ion: 41 Resp: 4342

Ion Ratio Lower Upper

41 100

39 82.5 51.3 76.9#

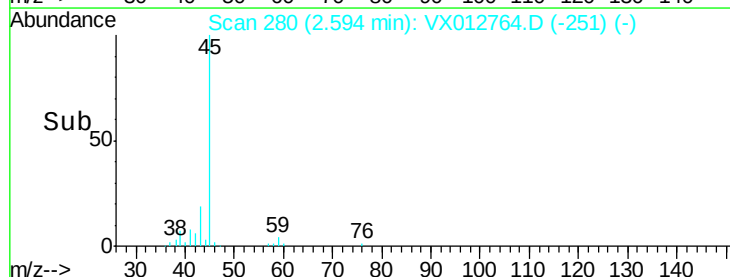
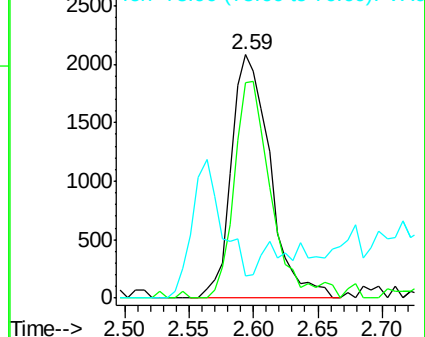
76 8.4 22.6 33.8#

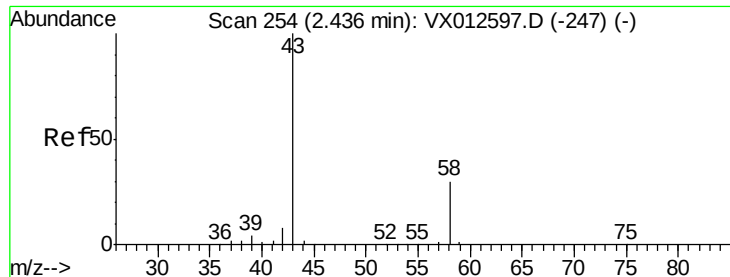


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 1.736 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

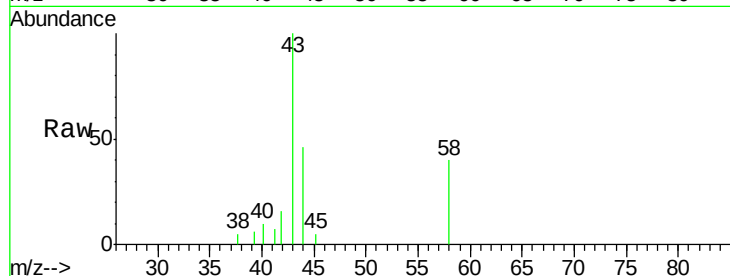
ClientSampled :

Tot Ion: 43 Resp: 2248

Ion Ratio Lower Upper

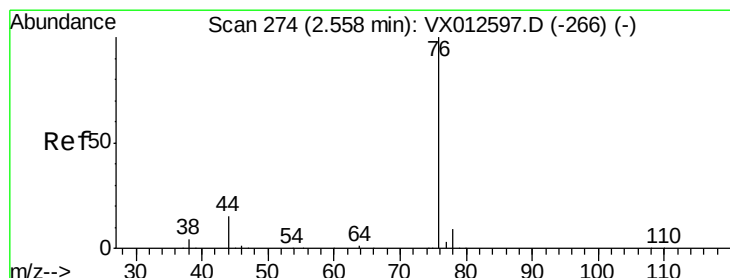
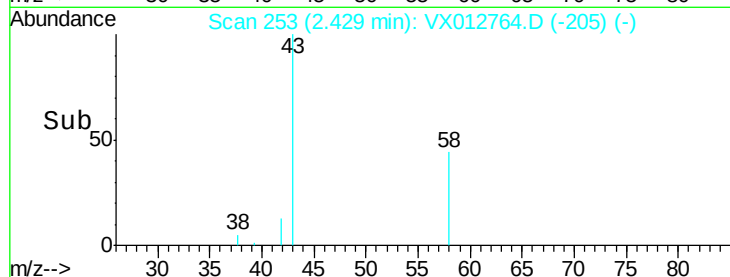
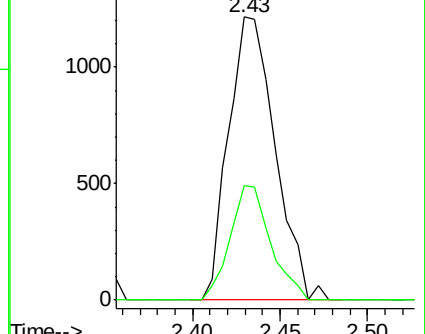
43 100

58 40.3 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.407 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012764.D

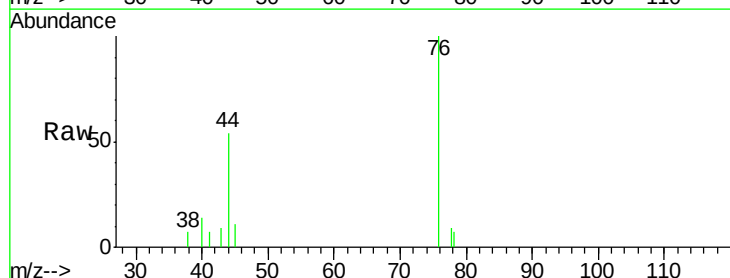
Acq: 02 Oct 2019 16:49

Tgt Ion: 76 Resp: 2062

Ion Ratio Lower Upper

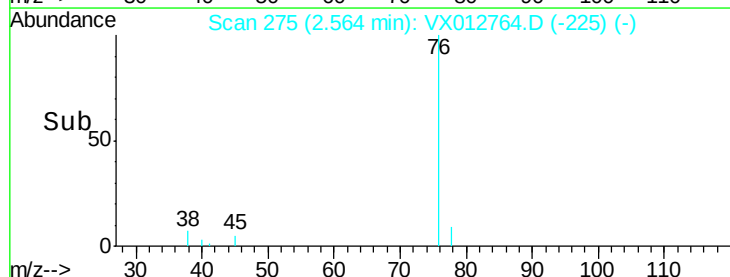
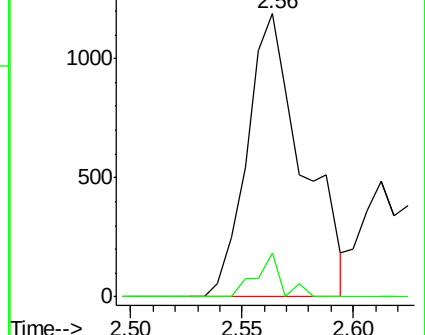
76 100

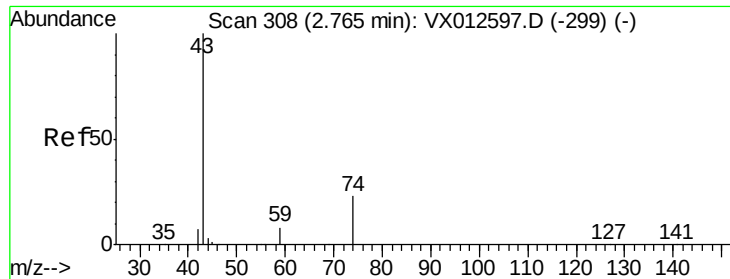
78 15.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

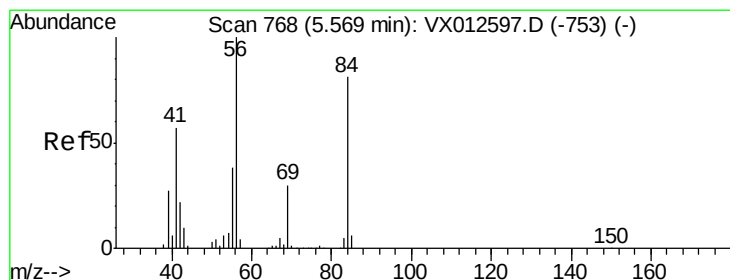
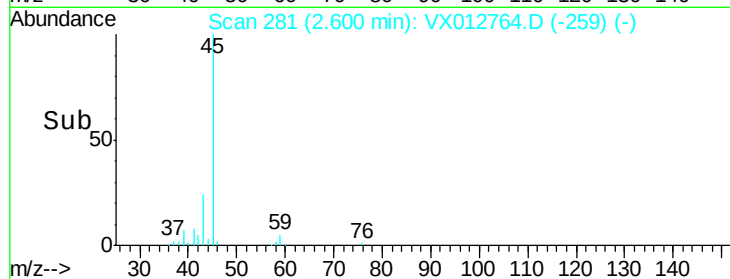
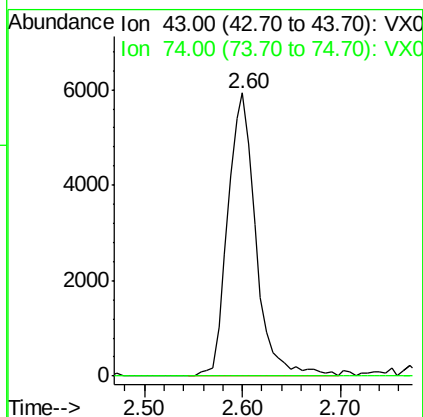
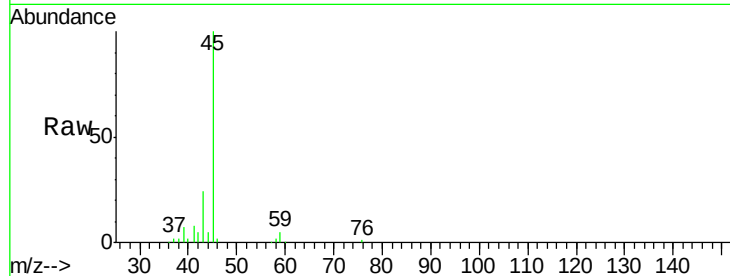




#18
Methvl Acetate
Concen: 3.877 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.16 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

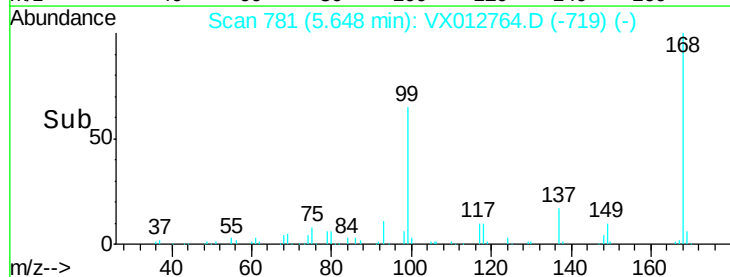
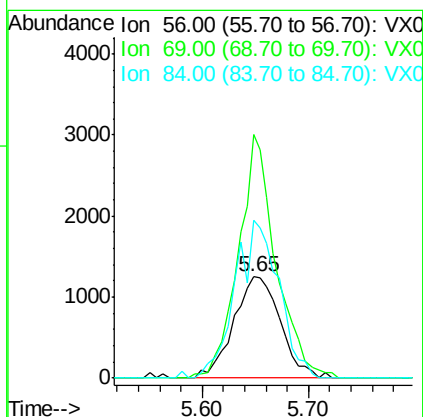
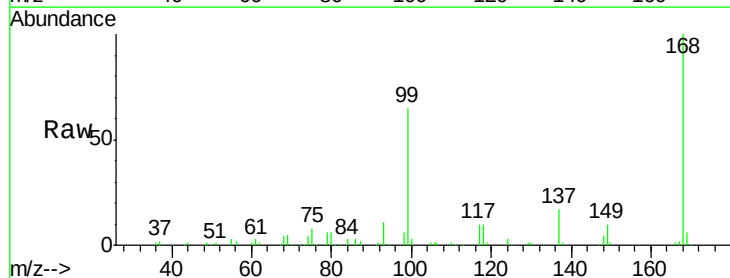
Instrument :
MSVOA_X
ClientSampleId :

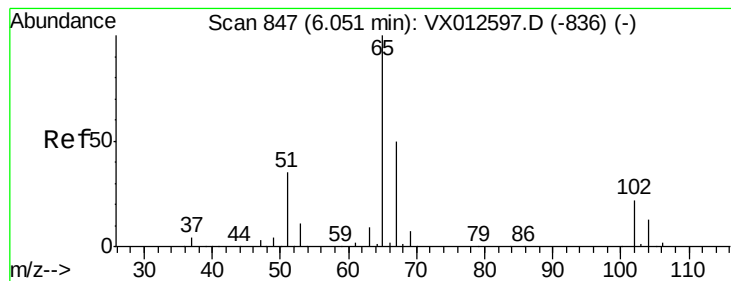
Tot Ion: 43 Resp: 11824
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#31
Cyclohexane
Concen: 1.126 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

Tgt Ion: 56 Resp: 3832
Ion Ratio Lower Upper
56 100
69 240.3 25.0 37.6#
84 156.0 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.456 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

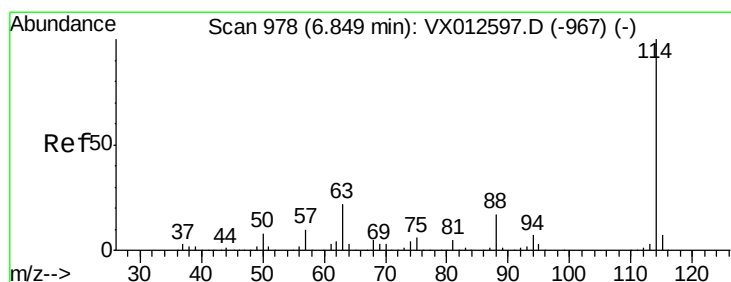
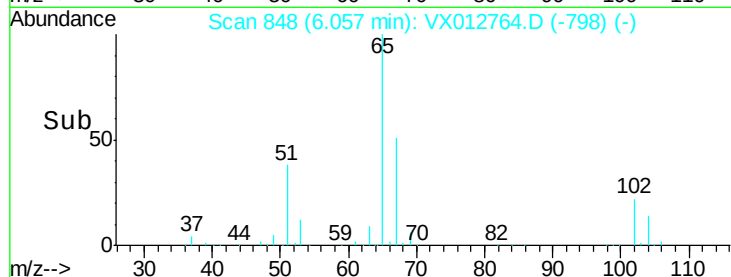
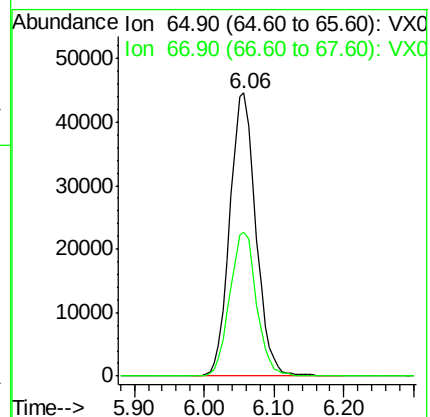
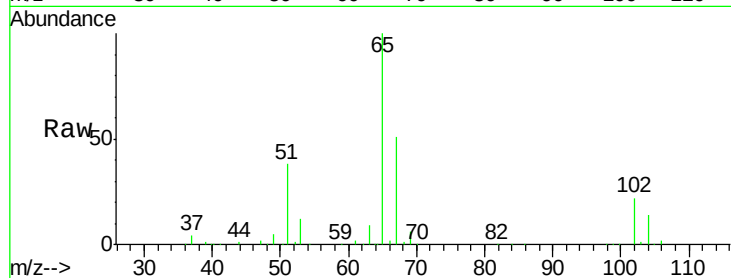
ClientSampleId :

Tot Ion: 65 Resp: 116030

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

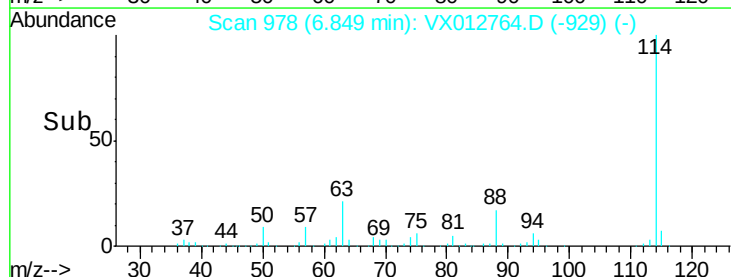
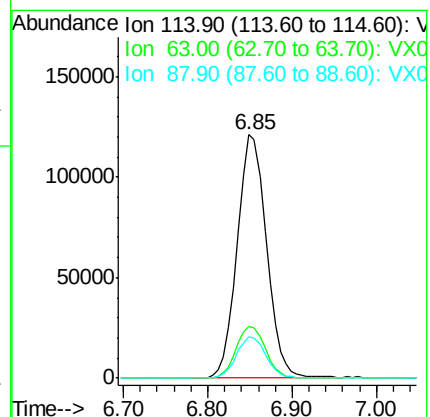
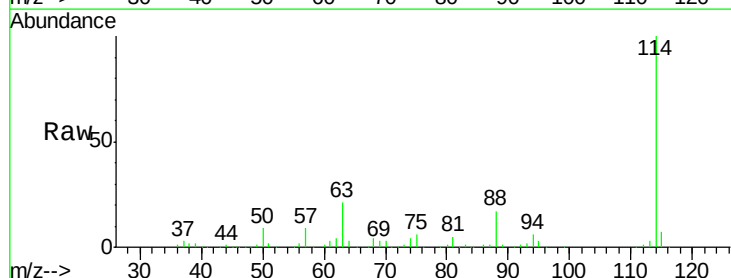
Tgt Ion: 114 Resp: 285542

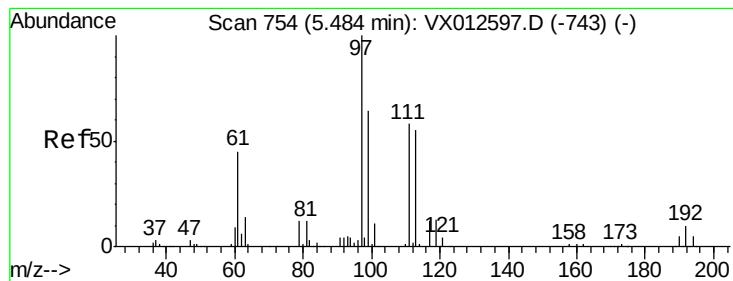
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

88 17.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.677 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

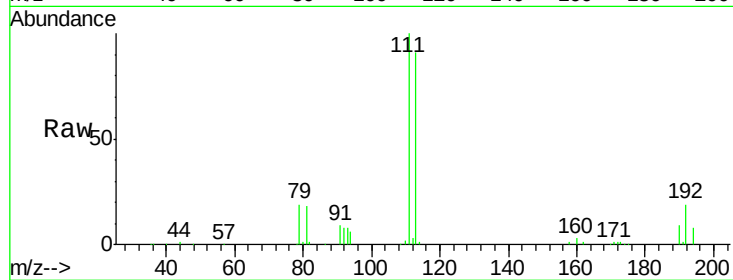
Tot Ion:113 Resp: 87878

Ion Ratio Lower Upper

113 100

111 103.4 83.4 125.2

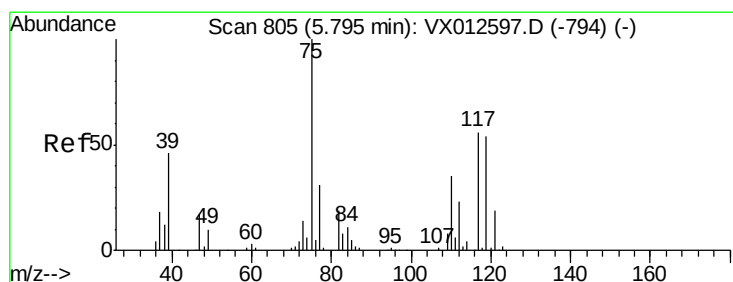
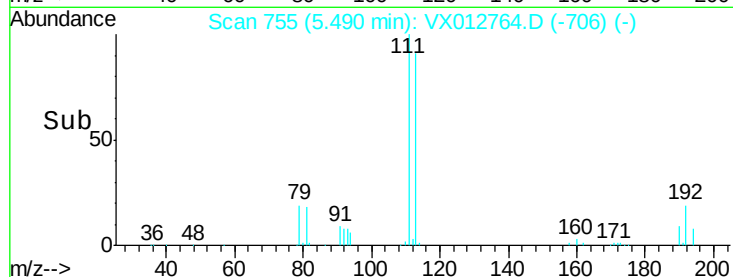
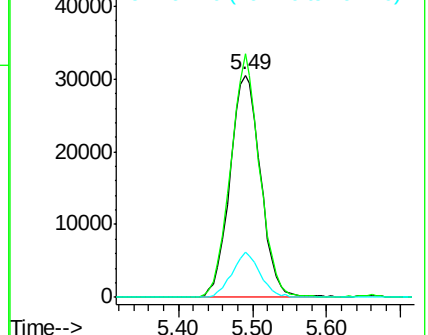
192 18.6 14.4 21.6



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: 4.979 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

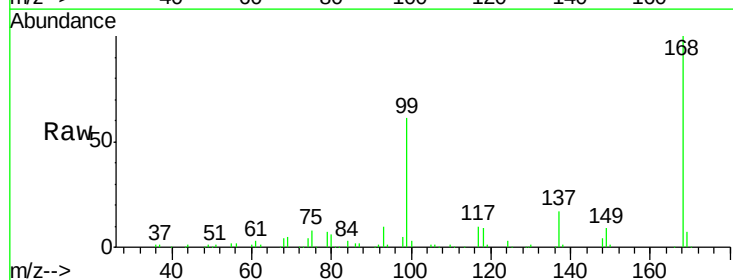
Tgt Ion: 75 Resp: 13704

Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.0#

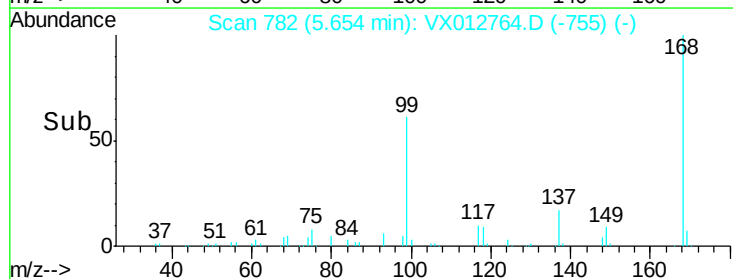
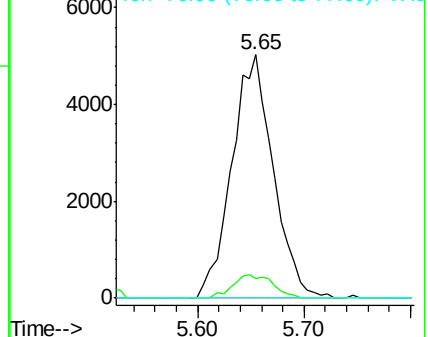
77 0.0 24.2 36.2#

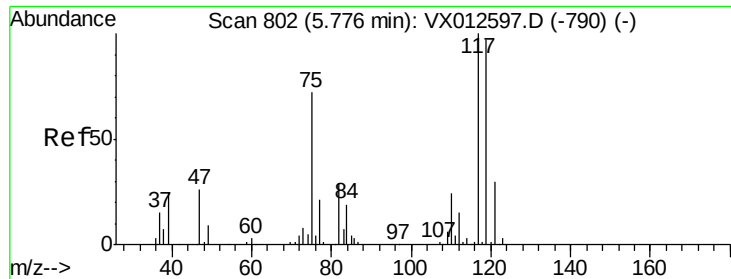


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

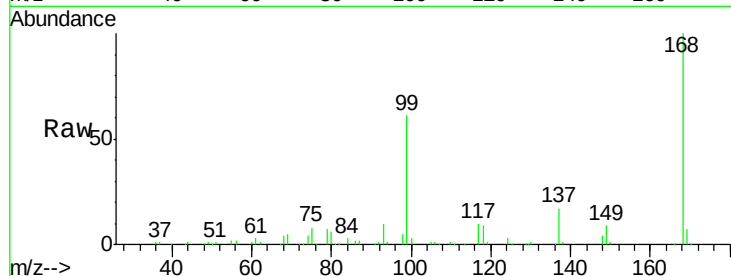




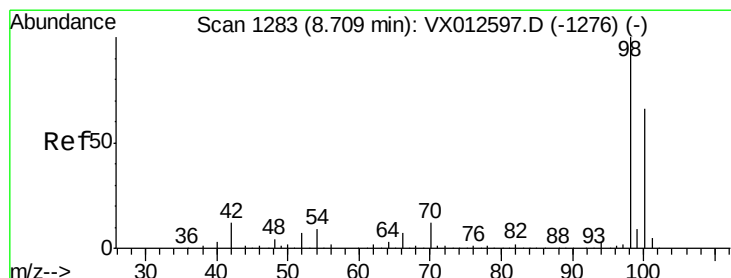
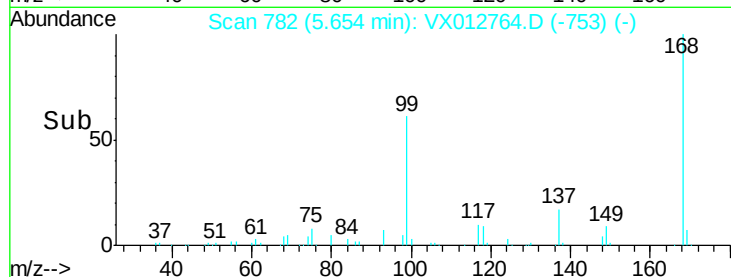
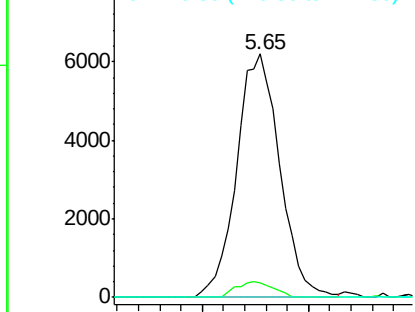
#38
Carbon Tetrachloride
Concen: 6.305 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 17629
Ion Ratio Lower Upper
117 100
119 5.7 75.7 113.5#
121 0.0 24.2 36.4#

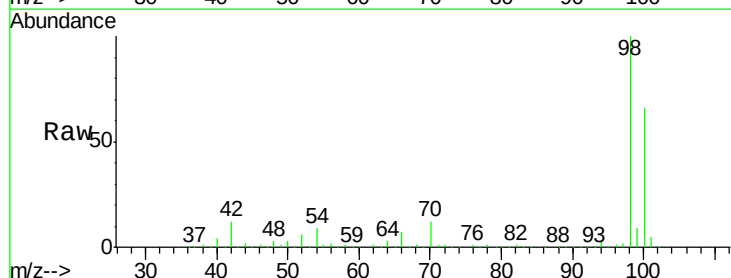


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

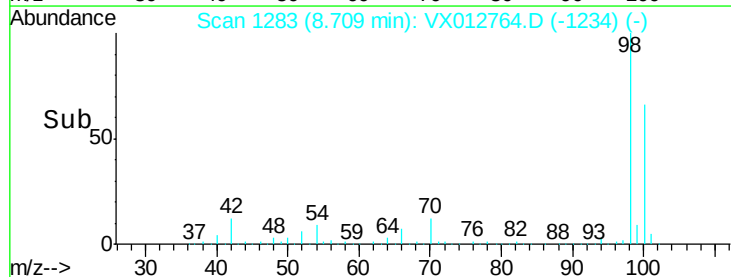
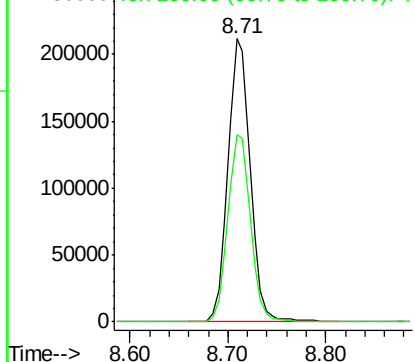


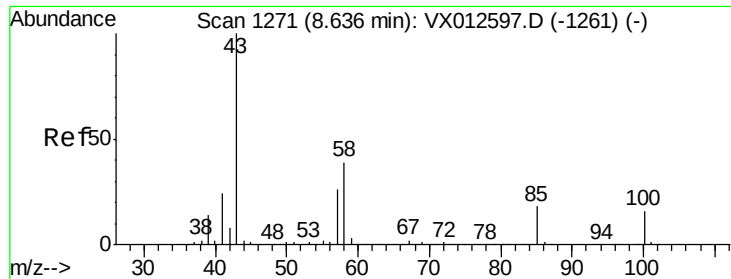
#50
Toluene-d8
Concen: 51.293 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

Tgt Ion: 98 Resp: 335909
Ion Ratio Lower Upper
98 100
100 67.4 53.4 80.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.449 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

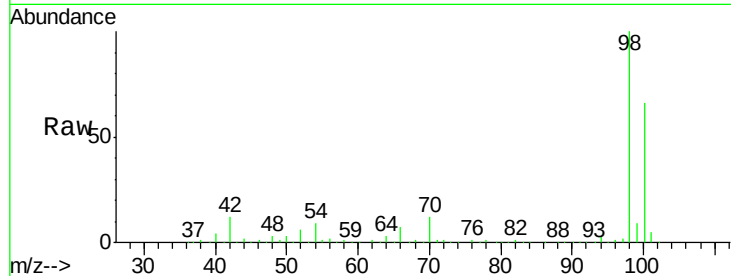
ClientSampled :

Tot Ion: 43 Resp: 1490

Ion Ratio Lower Upper

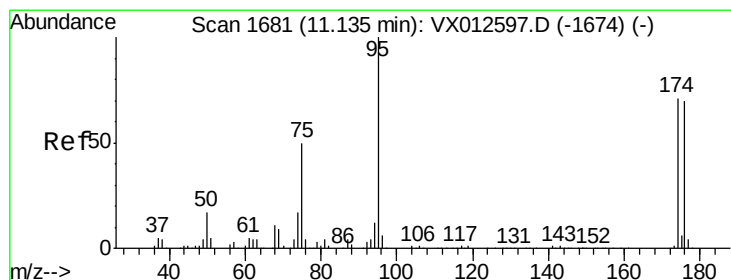
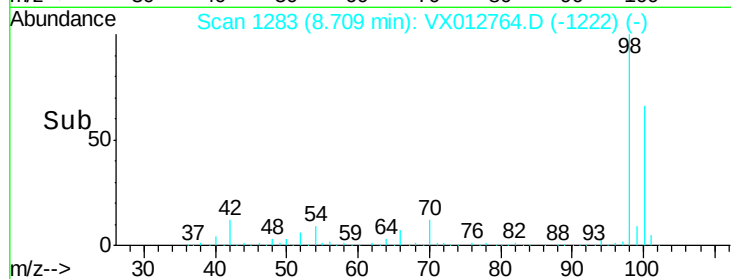
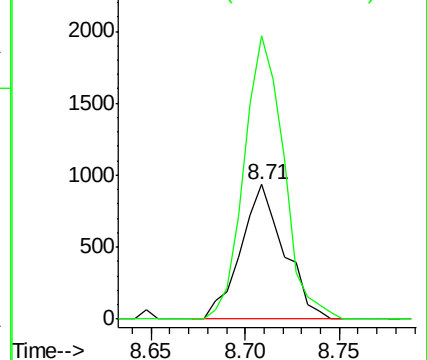
43 100

58 193.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.456 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

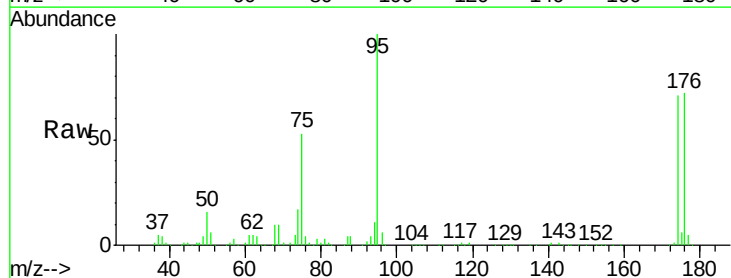
Tgt Ion: 95 Resp: 109324

Ion Ratio Lower Upper

95 100

174 69.9 0.0 140.0

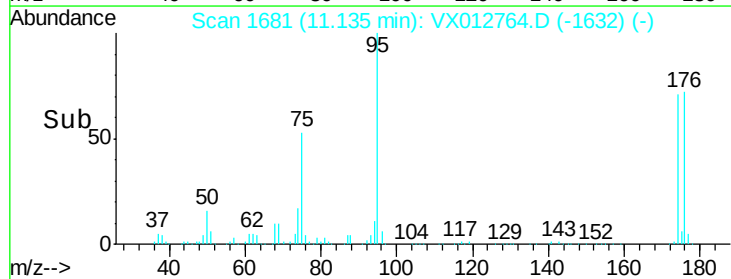
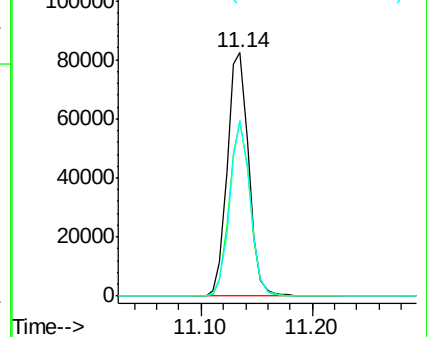
176 69.1 0.0 135.4

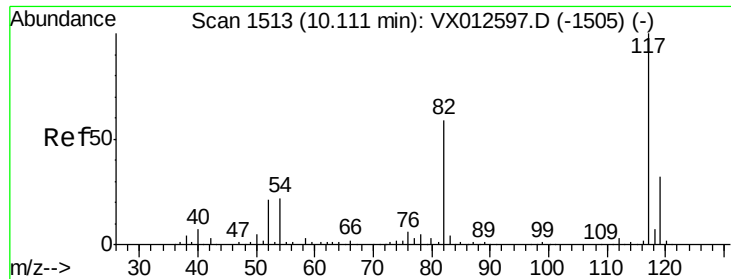


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

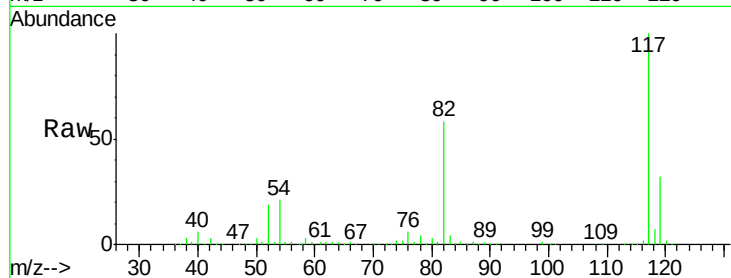




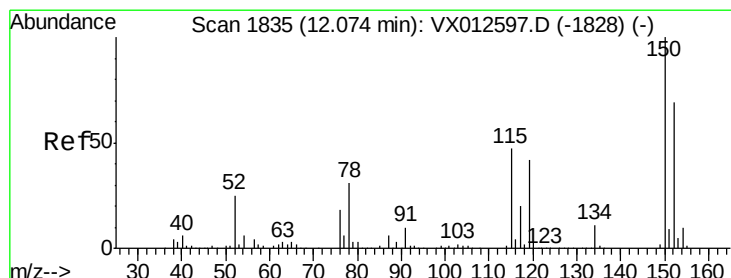
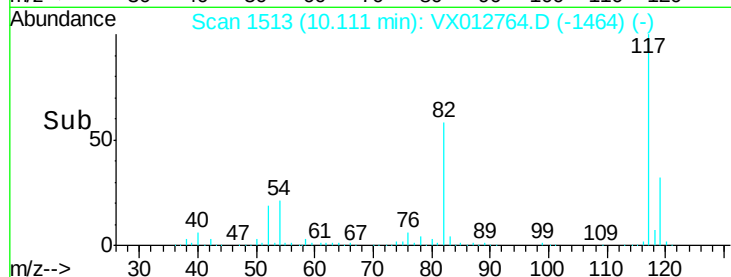
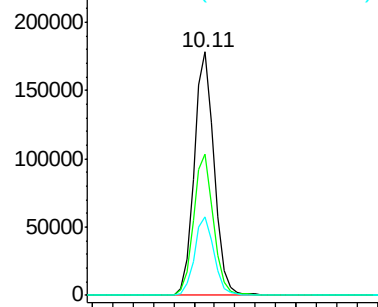
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 244377
Ion Ratio Lower Upper
117 100
82 58.0 45.9 68.9
119 32.5 25.3 37.9

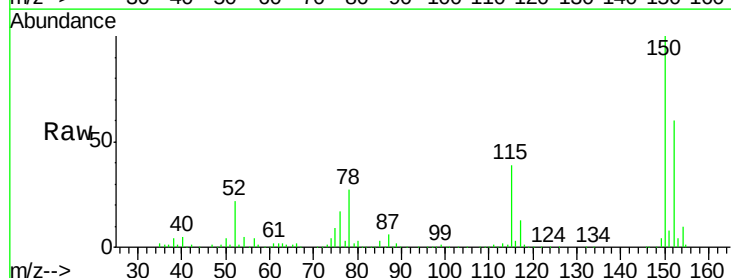


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

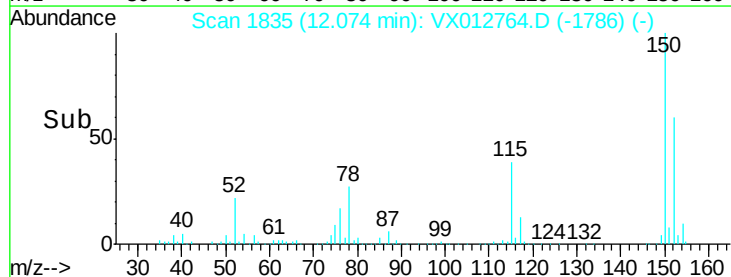
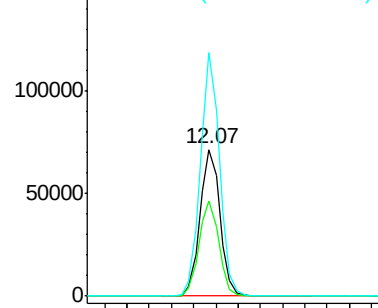


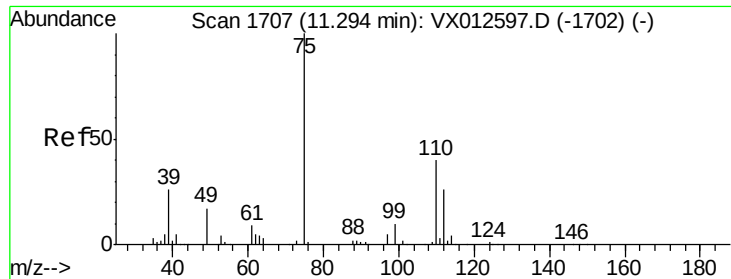
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012764.D
Acq: 02 Oct 2019 16:49

Tgt Ion:152 Resp: 88819
Ion Ratio Lower Upper
152 100
115 64.8 44.1 132.3
150 158.5 0.0 343.8



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: 24.000 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

Instrument :

MSVOA_X

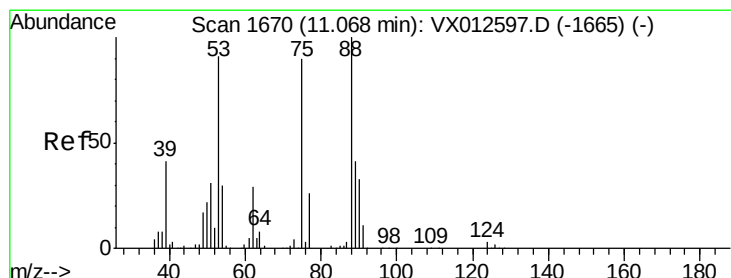
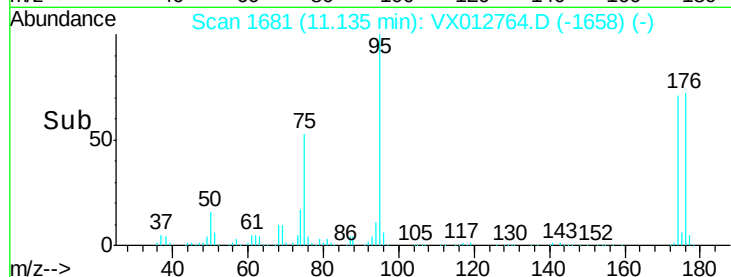
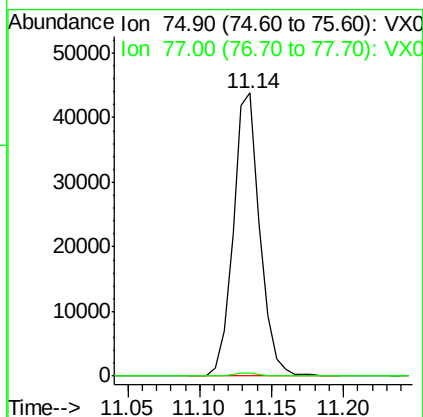
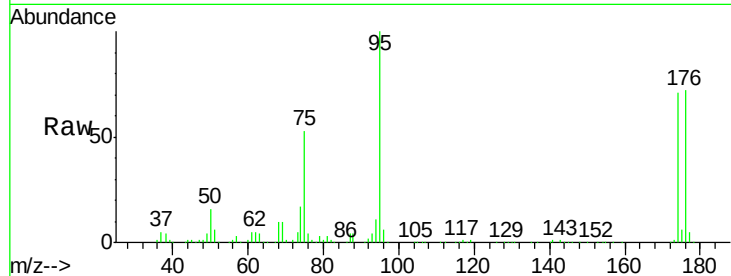
ClientSampleId :

Tot Ion: 75 Resp: 56387

Ion Ratio Lower Upper

75 100

77 1.0 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.778 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012764.D

Acq: 02 Oct 2019 16:49

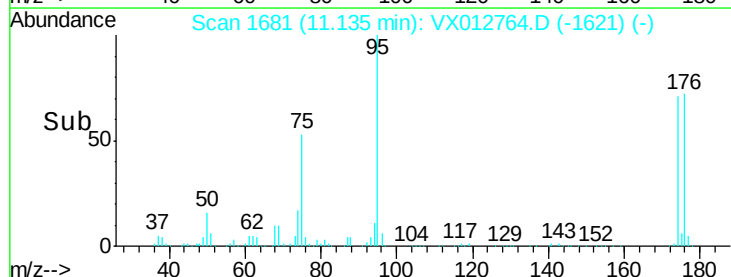
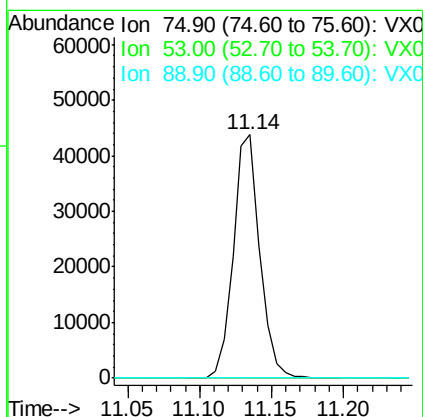
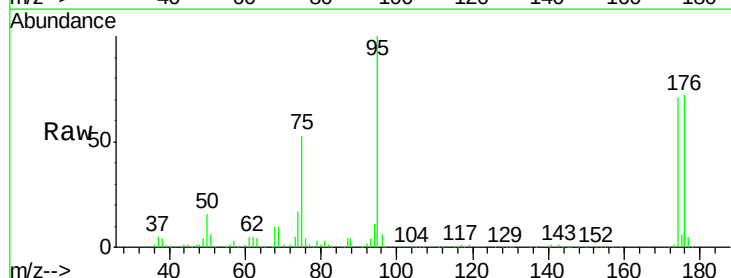
Tgt Ion: 75 Resp: 56387

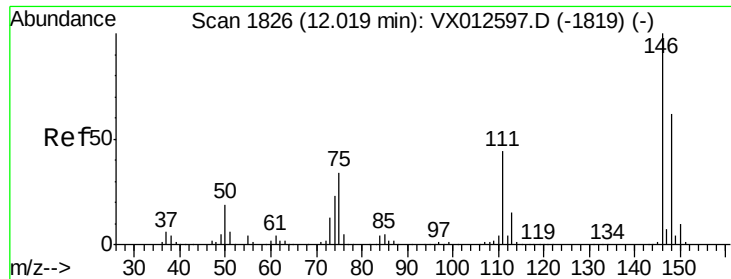
Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

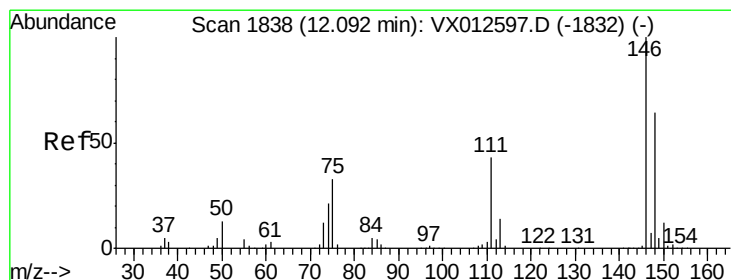
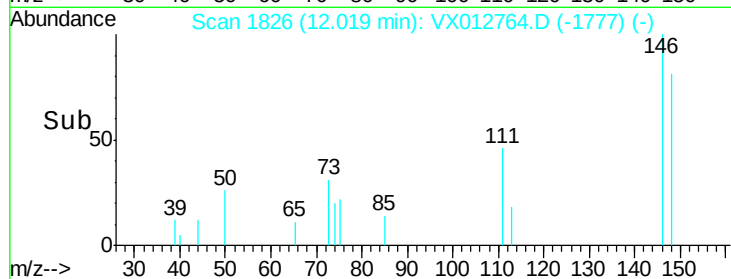
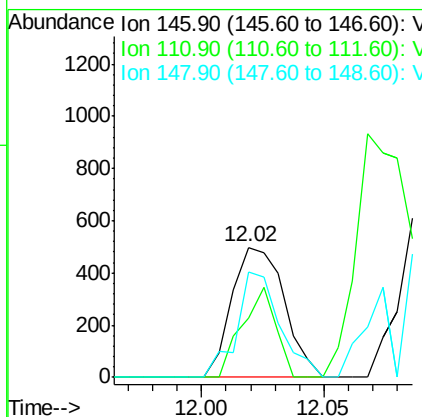
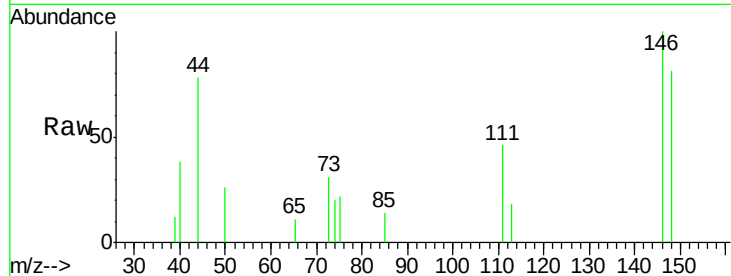




#87
 1,3-Dichlorobenzene
 Concen: 0.253 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX012764.D
 Acq: 02 Oct 2019 16:49

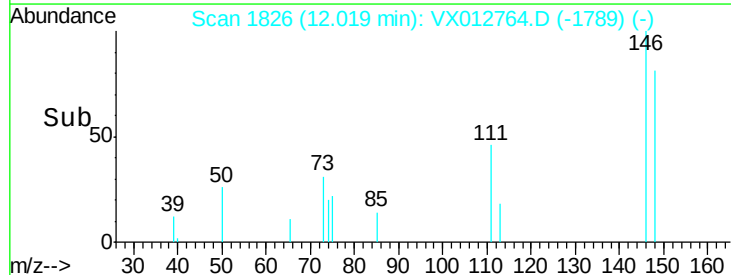
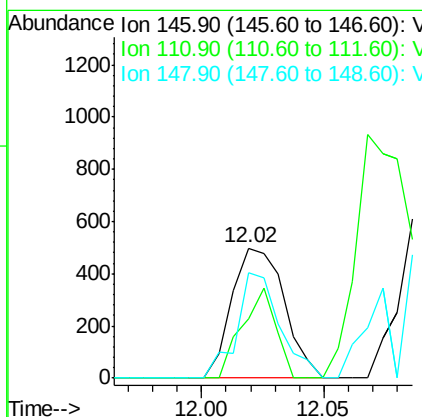
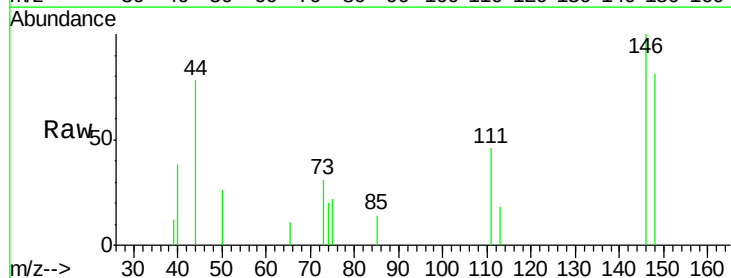
Instrument :
 MSVOA_X
 ClientSampled :

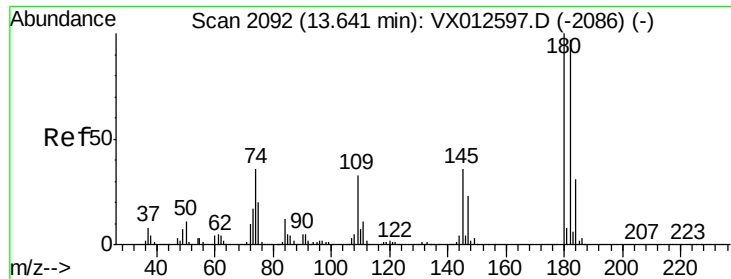
Tot Ion:146 Resp: 744
 Ion Ratio Lower Upper
 146 100
 111 44.4 21.3 64.0
 148 66.5 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 0.250 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.07 min
 Lab File: VX012764.D
 Acq: 02 Oct 2019 16:49

Tgt Ion:146 Resp: 744
 Ion Ratio Lower Upper
 146 100
 111 44.4 21.1 63.3
 148 66.5 32.1 96.5

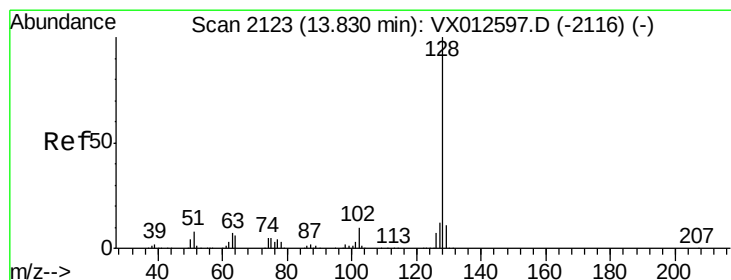
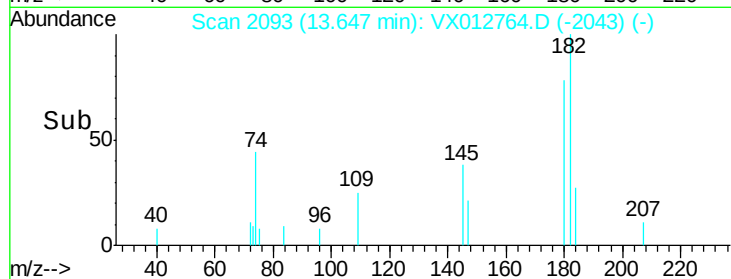
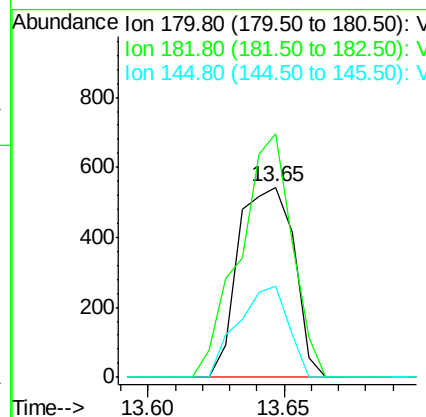
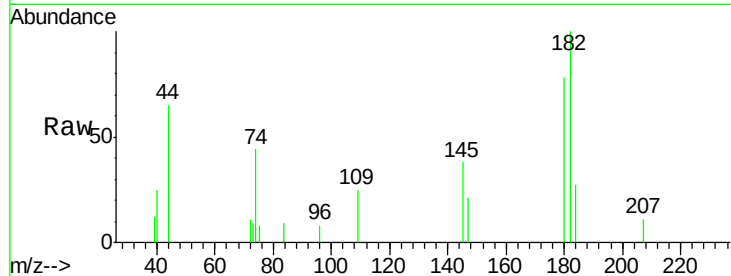




#93
 1,2,4-Trichlorobenzene
 Concen: 0.427 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX012764.D
 Acq: 02 Oct 2019 16:49

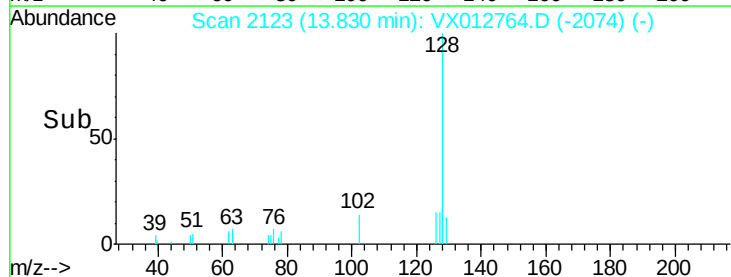
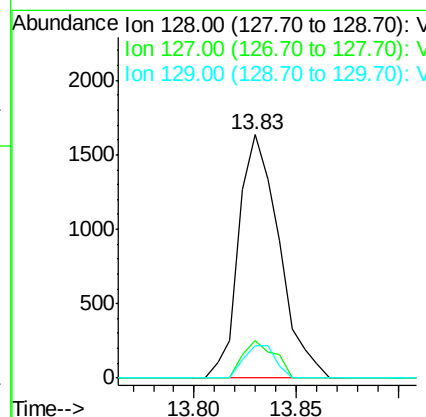
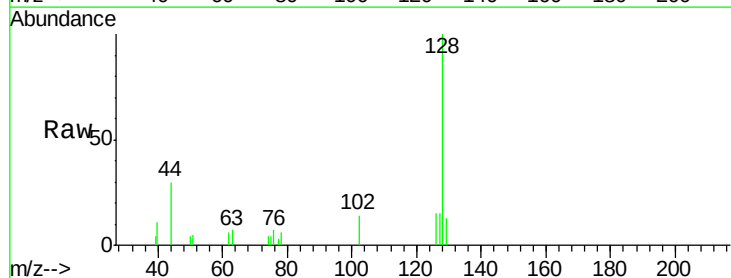
Instrument :
 MSVOA_X
 ClientSampled :

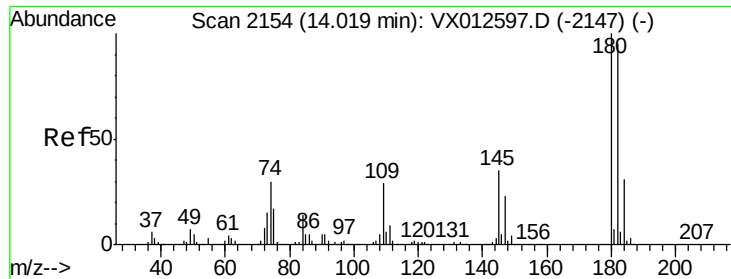
Tot Ion:180 Resp: 768
 Ion Ratio Lower Upper
 180 100
 182 120.7 47.0 141.0
 145 43.5 16.8 50.4



#95
 Naphthalene
 Concen: 0.345 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. -0.00 min
 Lab File: VX012764.D
 Acq: 02 Oct 2019 16:49

Tgt Ion:128 Resp: 2244
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.2 15.4
 129 10.4 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.479 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX012764.D
 Acq: 02 Oct 2019 16:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	74.6	47.1	141.3
145	40.7	18.0	54.0

