

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012896.D
 Acq On : 08 Oct 2019 17:50
 Operator : JC/SP
 Sample : K5122-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 09 02:10:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	176027	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	297140	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	104001	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	114483	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
35) Dibromofluoromethane	5.48	113	89282	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
50) Toluene-d8	8.71	98	347719	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	11.14	95	122590	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	

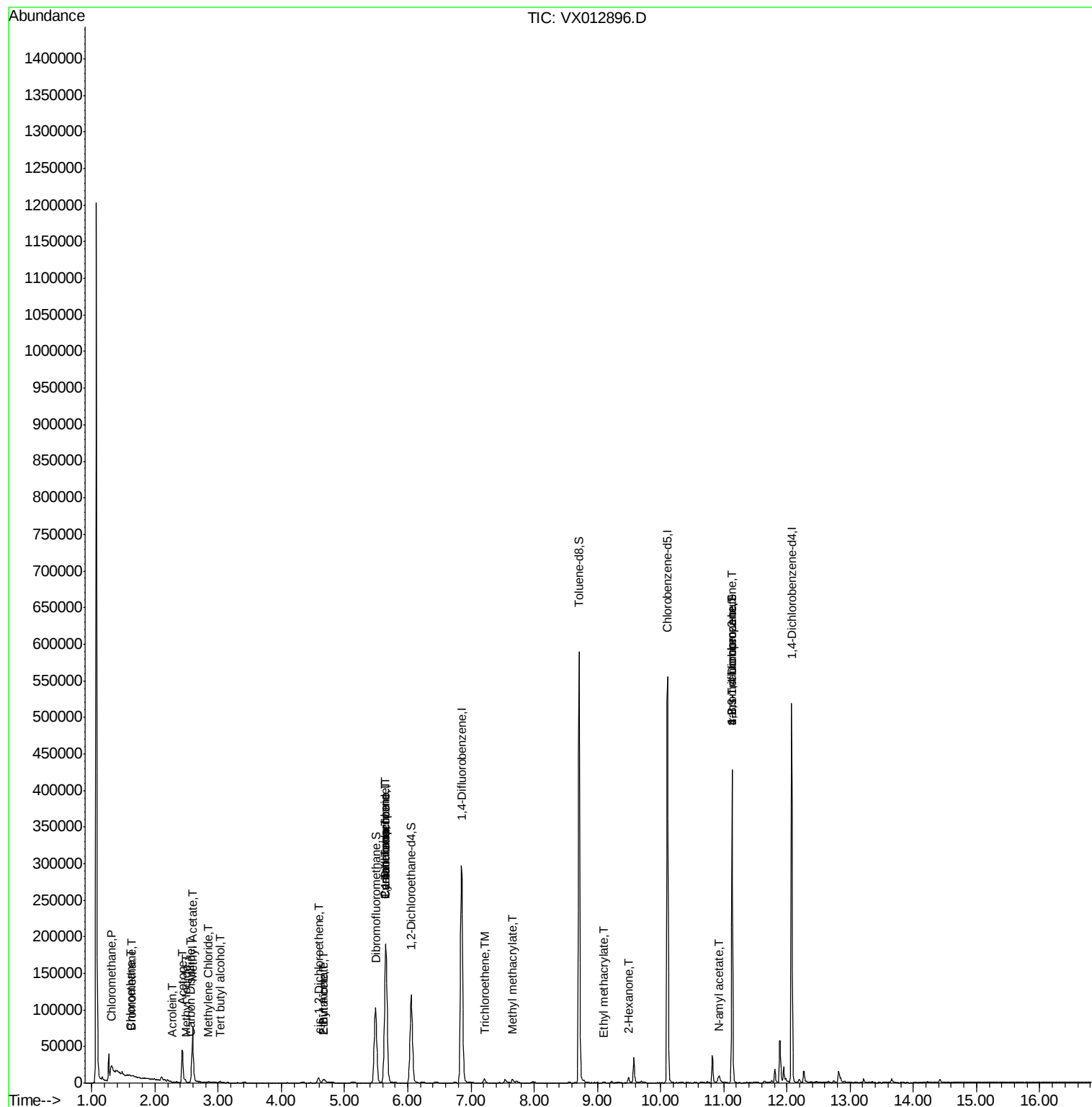
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1154	0.591	ug/l #	83
5) Bromomethane	1.64	94	443	0.529	ug/l #	60
6) Chloroethane	1.62	64	1900	1.900	ug/l #	47
10) Methyl Iodide	2.50	142	90	5.122	ug/l #	40
11) Tert butyl alcohol	3.03	59	1552	2.661	ug/l #	72
13) Acrolein	2.28	56	224	0.540	ug/l #	41
16) Acetone	2.43	43	47140	40.649	ug/l	98
17) Carbon Disulfide	2.56	76	2774	0.547	ug/l #	93
18) Methyl Acetate	2.59	43	18698	6.802	ug/l #	51
20) Methylene Chloride	2.84	84	465	0.218	ug/l #	84
25) 2-Butanone	4.67	43	10325	6.417	ug/l #	85
27) cis-1,2-Dichloroethene	4.59	96	3830	1.743	ug/l	98
31) Cyclohexane	5.65	56	3715	1.163	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13978	5.350	ug/l #	50
37) Ethyl Acetate	4.67	43	10325	3.534	ug/l #	67
38) Carbon Tetrachloride	5.65	117	18747	7.373	ug/l #	16
44) Trichloroethene	7.21	130	2000	0.935	ug/l	73
48) Methyl methacrylate	7.65	41	1891	0.828	ug/l #	31
56) Ethyl methacrylate	9.11	69	46	1.844	ug/l #	1
59) 2-Hexanone	9.50	43	4173	1.834	ug/l	97
74) N-amyl acetate	10.93	43	2709	0.823	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	61717	26.755	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	61717	67.265	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

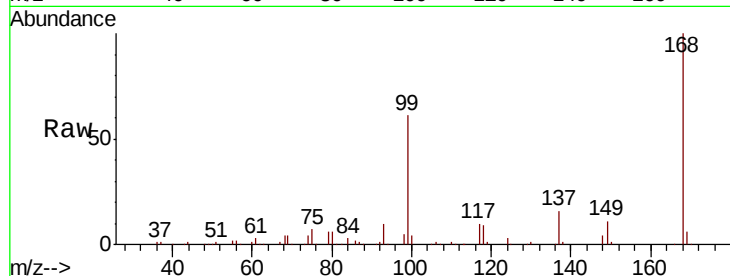
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 176027

Ion Ratio Lower Upper

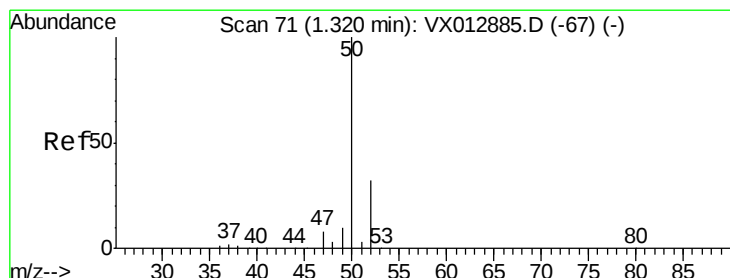
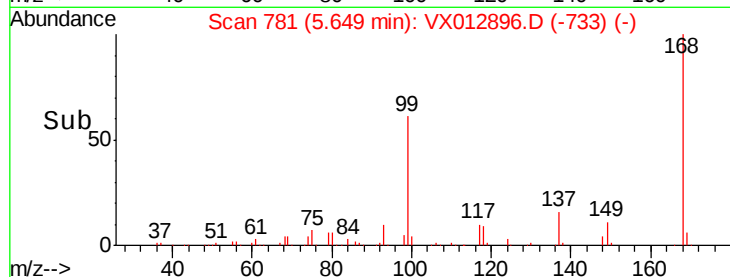
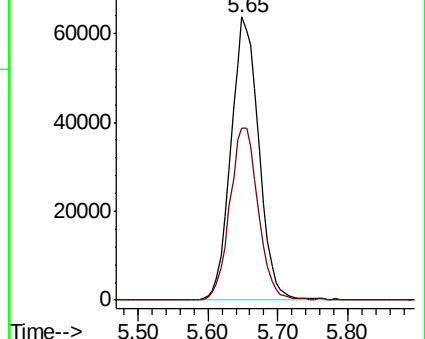
168 100

99 60.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.591 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012896.D

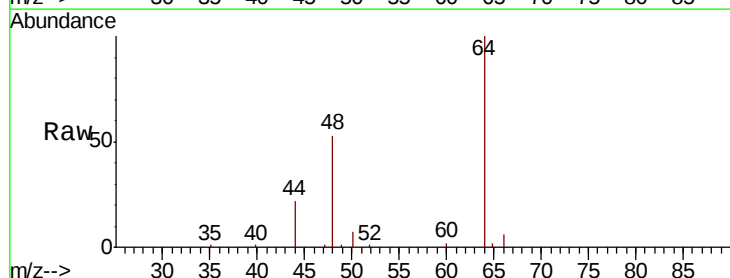
Acq: 08 Oct 2019 17:50

Tgt Ion: 50 Resp: 1154

Ion Ratio Lower Upper

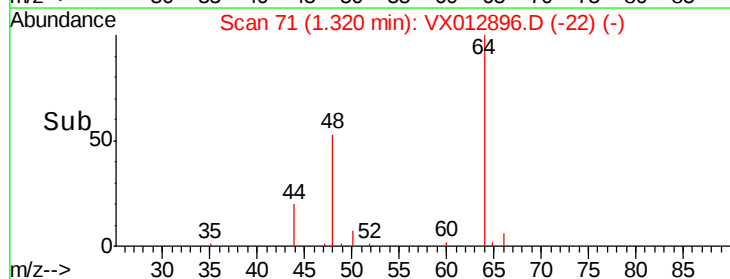
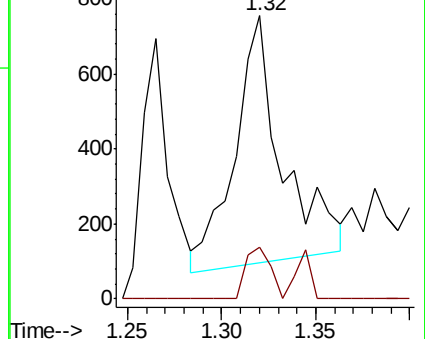
50 100

52 22.1 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.529 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

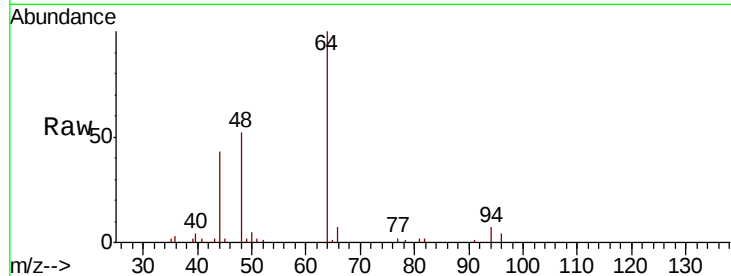
ClientSampleId :

Tot Ion: 94 Resp: 443

Ion Ratio Lower Upper

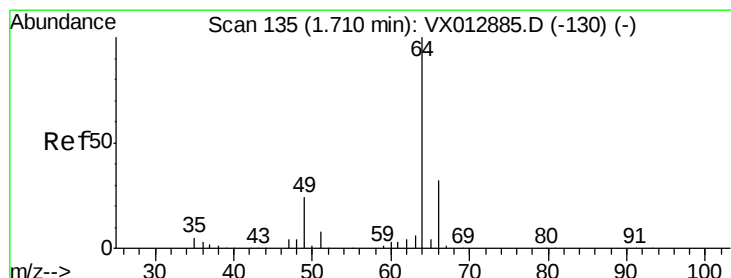
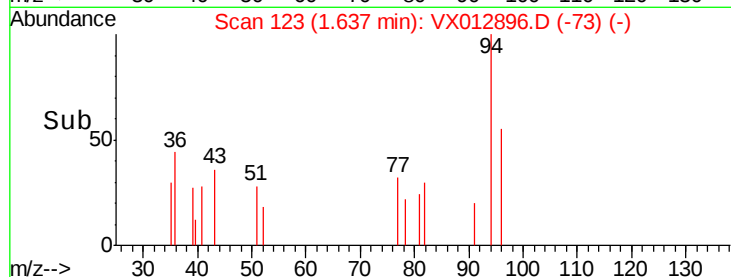
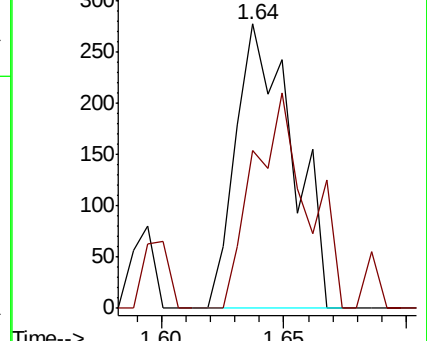
94 100

96 55.2 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.900 ug/l

RT: 1.62 min Scan# 120

Delta R.T. -0.09 min

Lab File: VX012896.D

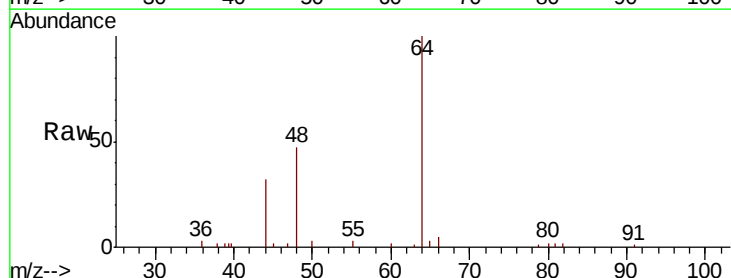
Acq: 08 Oct 2019 17:50

Tgt Ion: 64 Resp: 1900

Ion Ratio Lower Upper

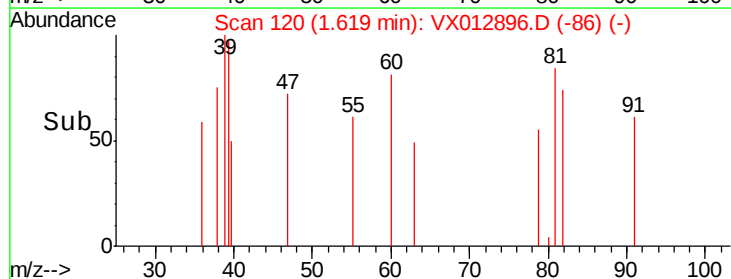
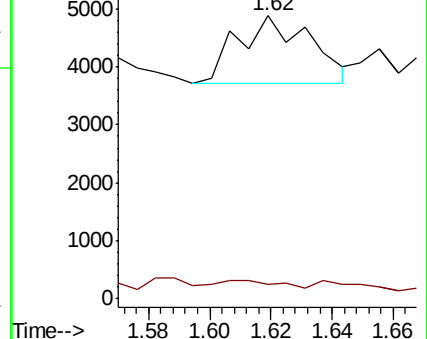
64 100

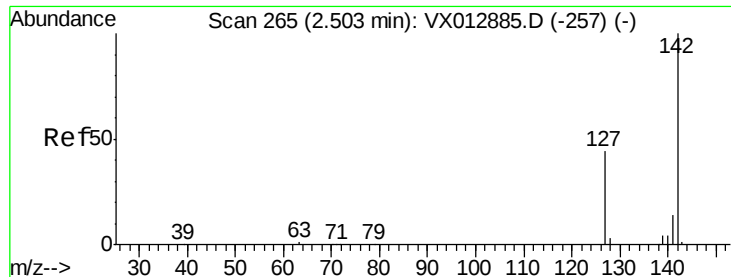
66 2.7 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

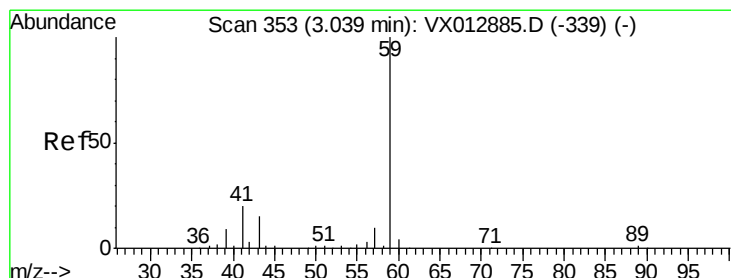
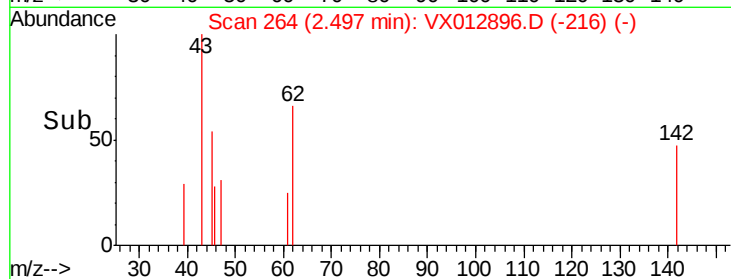
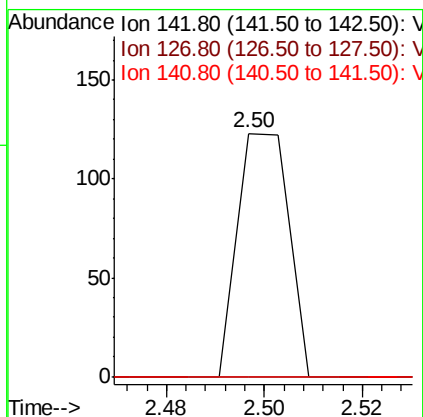
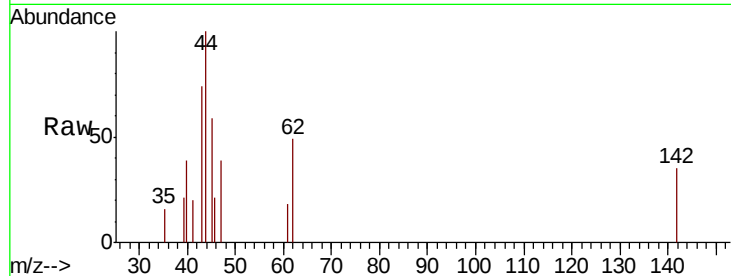




#10
Methyl Iodide
Concen: 5.122 ug/l
RT: 2.50 min Scan# 264
Delta R.T. -0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

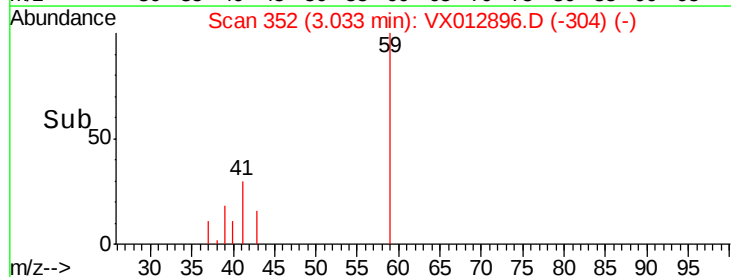
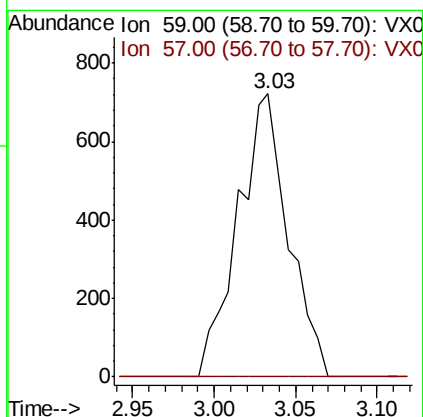
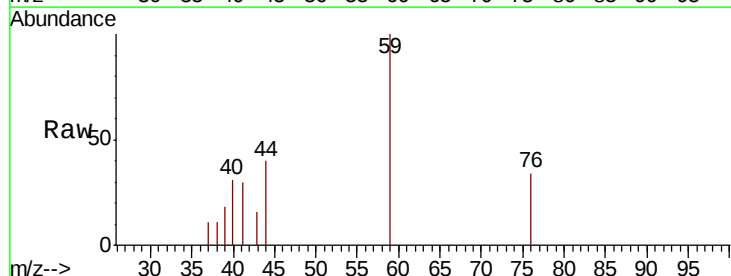
Instrument :
MSVOA_X
ClientSampleId :

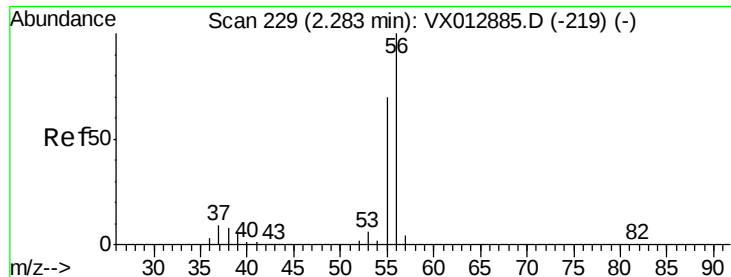
Tot Ion:142 Resp: 90
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 2.661 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 59 Resp: 1552
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.540 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

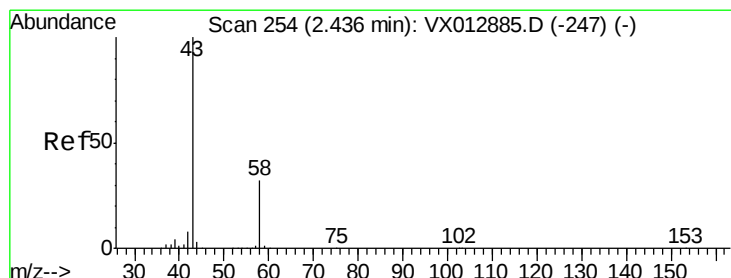
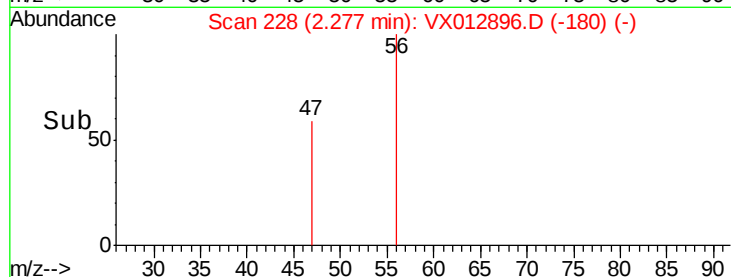
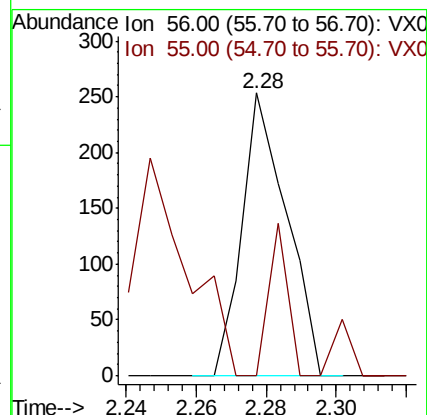
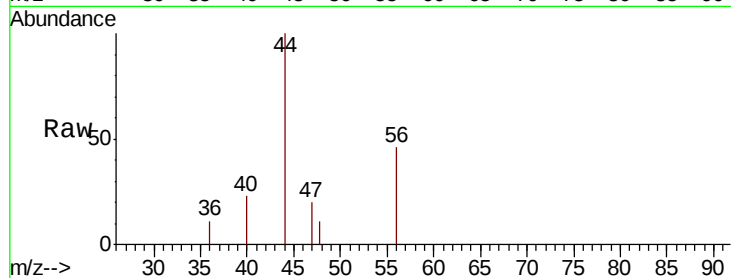
ClientSampled :

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 22.3 56.6 85.0#



#16

Acetone

Concen: 40.649 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012896.D

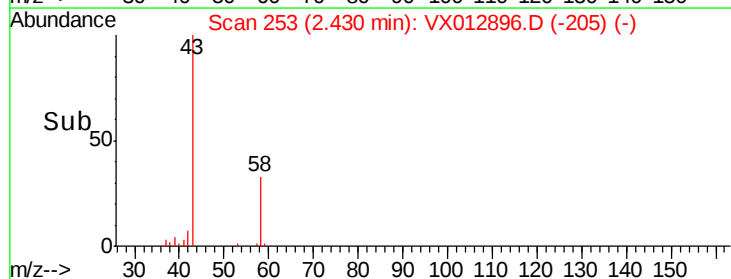
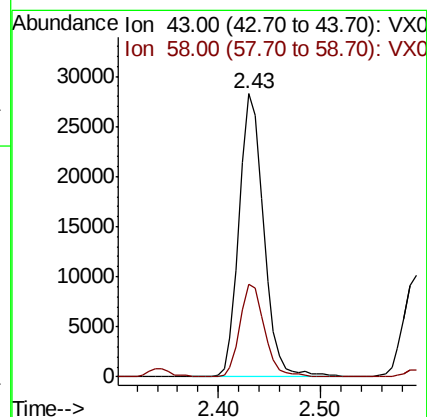
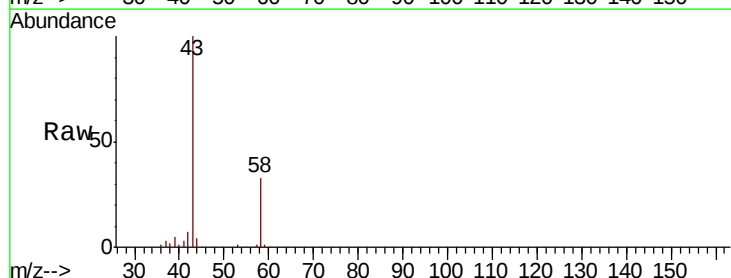
Acq: 08 Oct 2019 17:50

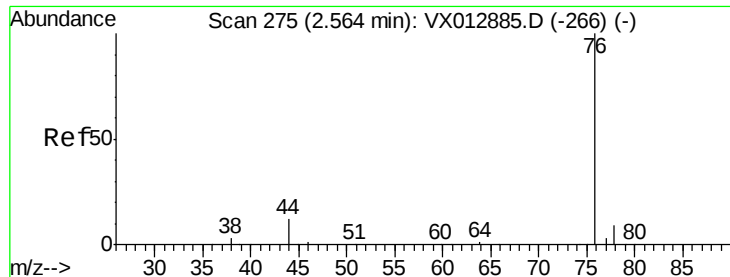
Tgt Ion: 43 Resp: 47140

Ion Ratio Lower Upper

43 100

58 32.7 25.4 38.2

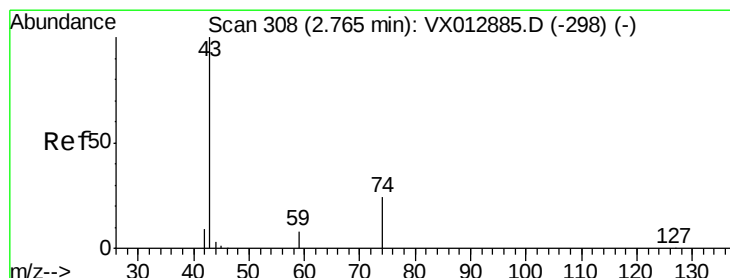
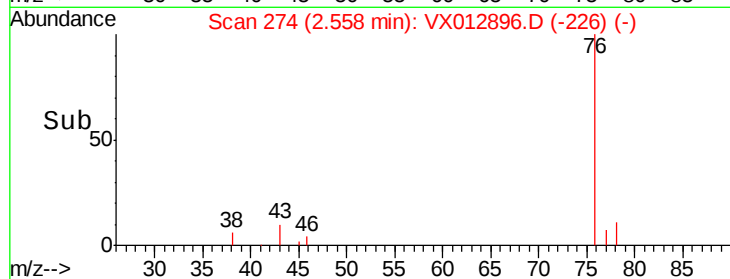
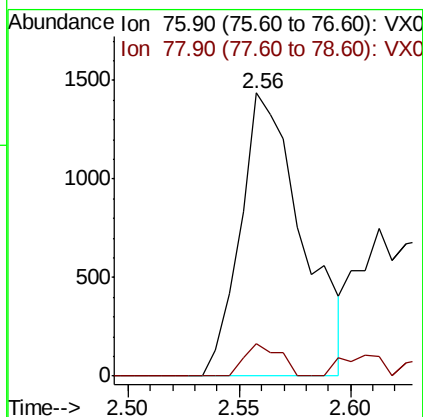
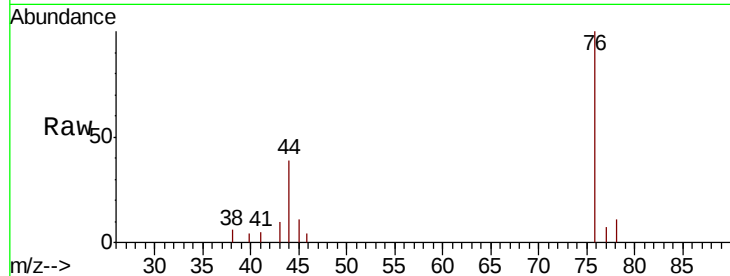




#17
Carbon Disulfide
Concen: 0.547 ug/l
RT: 2.56 min Scan# 274
Delta R.T. -0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

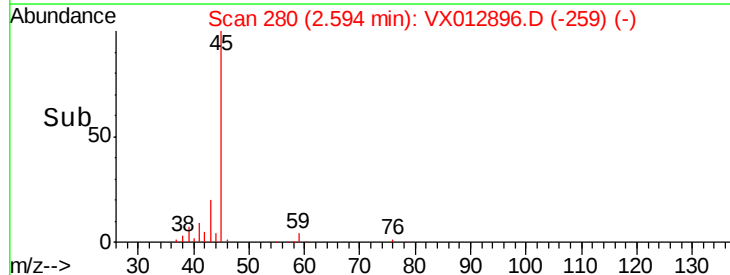
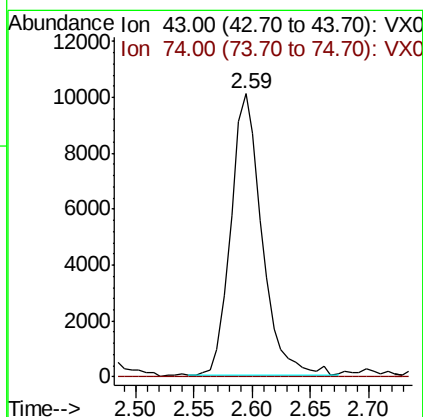
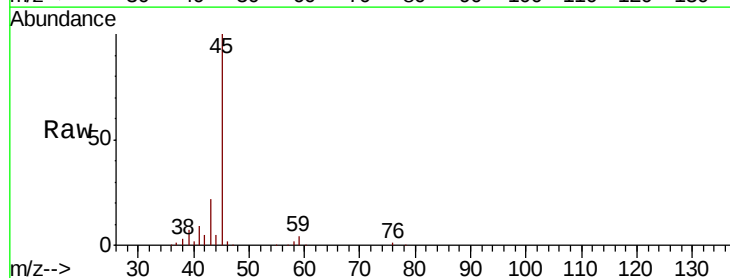
Instrument :
MSVOA_X
ClientSampleId :

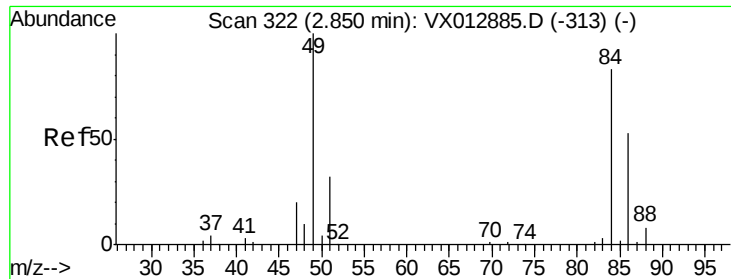
Tot Ion: 76 Resp: 2774
Ion Ratio Lower Upper
76 100
78 11.4 7.1 10.7#



#18
Methyl Acetate
Concen: 6.802 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 43 Resp: 18698
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#

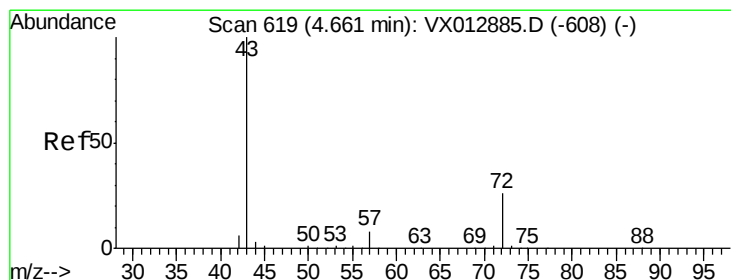
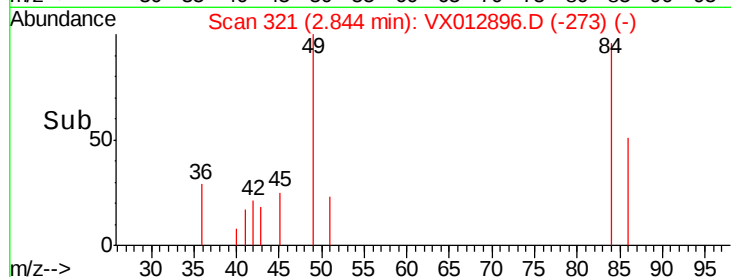
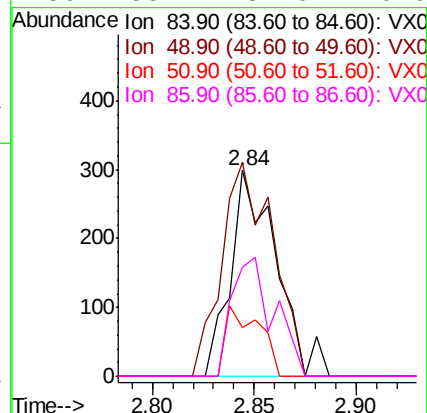
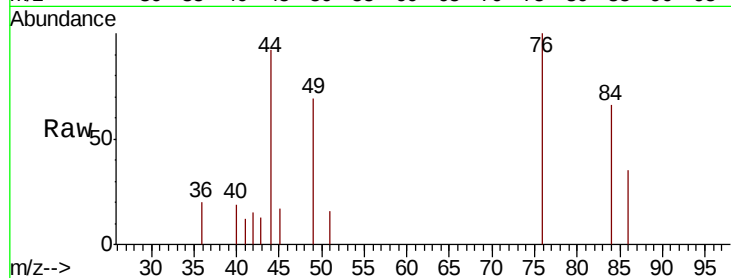




#20
Methvlene Chloride
Concen: 0.218 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

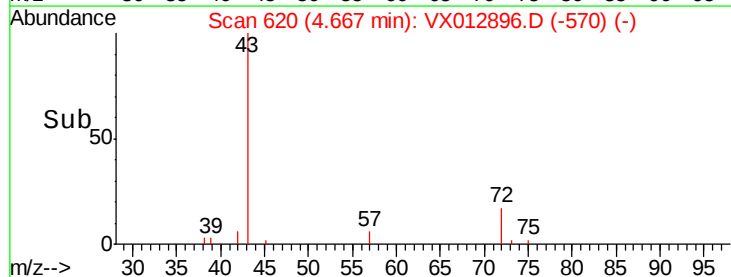
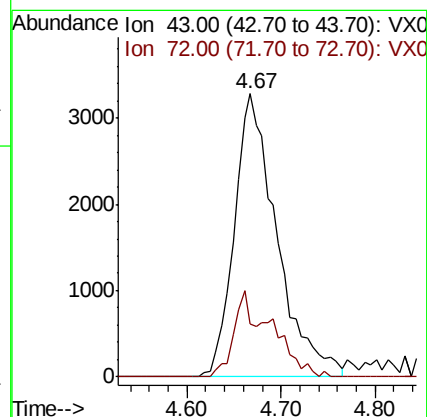
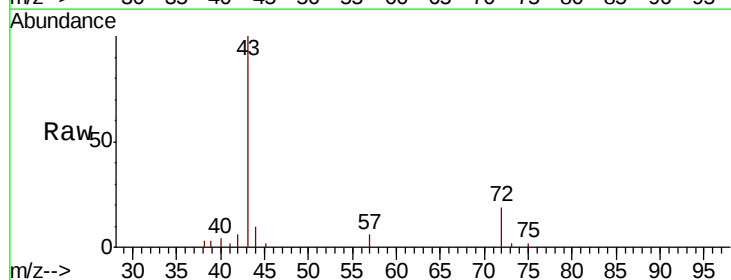
Instrument :
MSVOA_X
ClientSampleId :

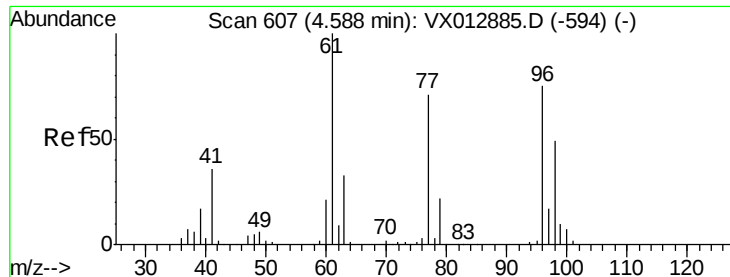
Tot Ion: 84 Resp: 465
Ion Ratio Lower Upper
84 100
49 103.7 96.6 144.8
51 23.7 30.7 46.1#
86 53.2 51.0 76.6



#25
2-Butanone
Concen: 6.417 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 43 Resp: 10325
Ion Ratio Lower Upper
43 100
72 18.7 21.0 31.6#



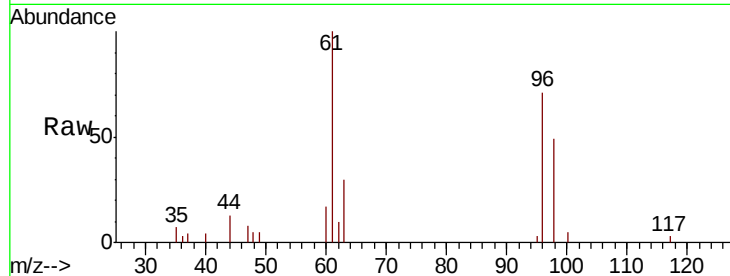


#27

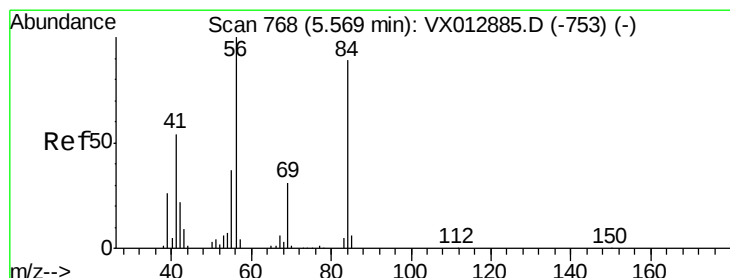
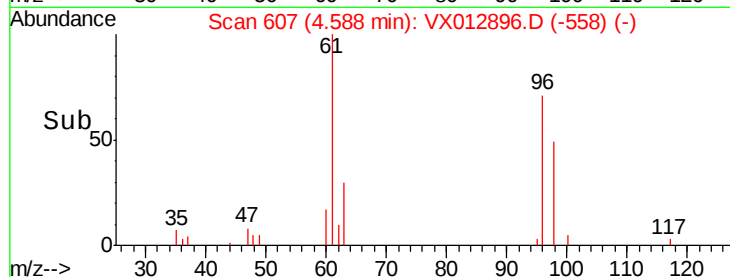
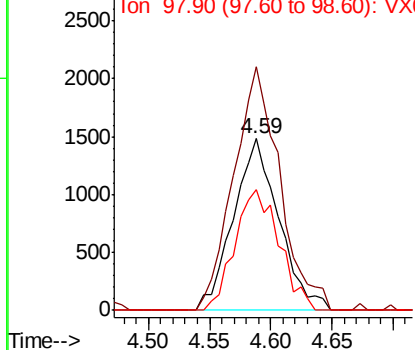
cis-1,2-Dichloroethene
Concen: 1.743 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.00 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 3830
Ion Ratio Lower Upper
96 100
61 144.0 0.0 290.6
98 68.6 0.0 128.8



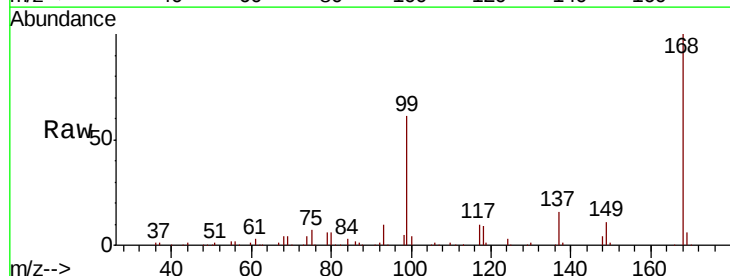
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



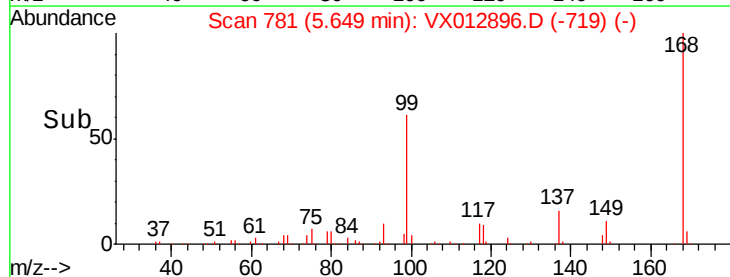
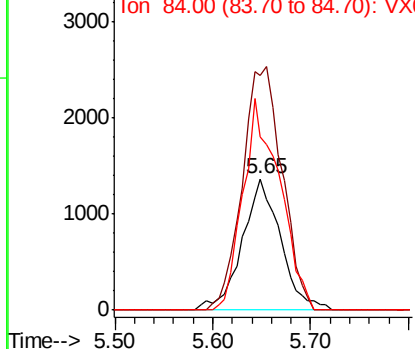
#31

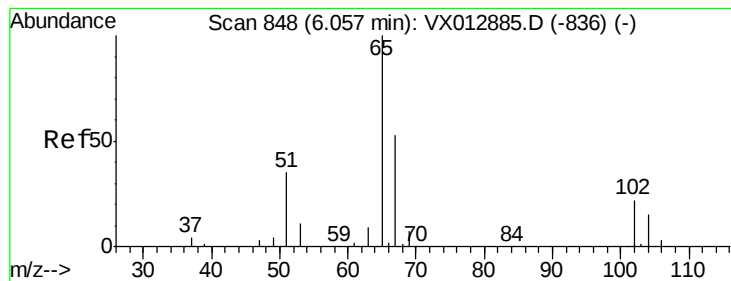
Cyclohexane
Concen: 1.163 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 56 Resp: 3715
Ion Ratio Lower Upper
56 100
69 179.0 25.2 37.8#
84 131.9 71.3 106.9#



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: 52.035 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

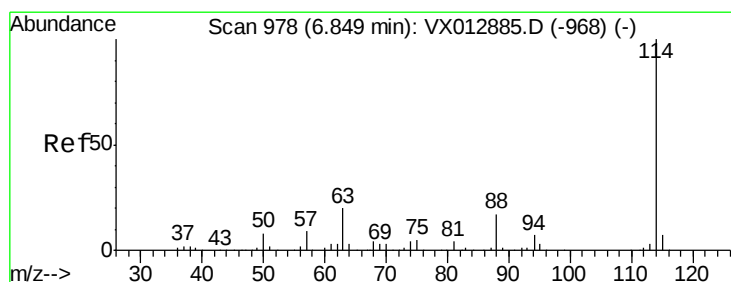
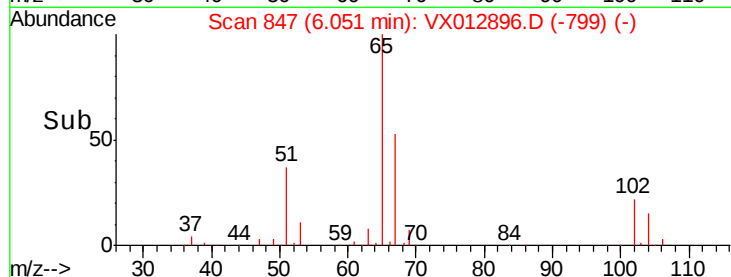
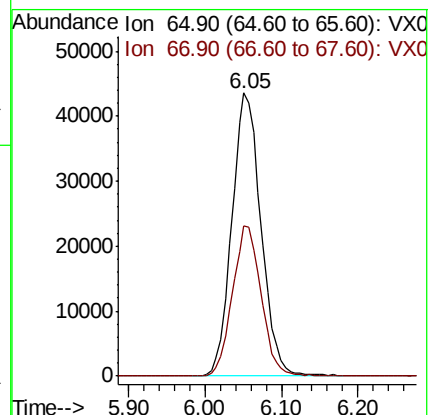
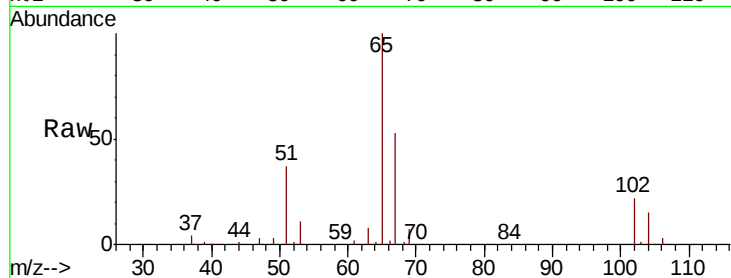
ClientSampleId :

Tot Ion: 65 Resp: 114483

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

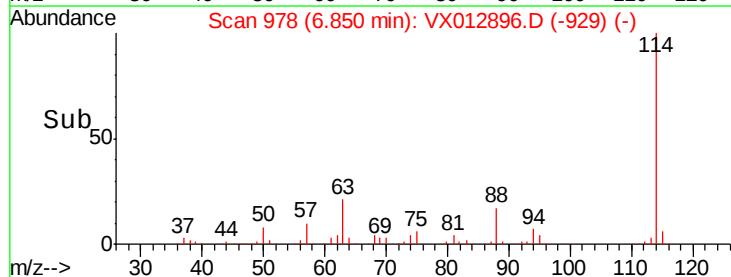
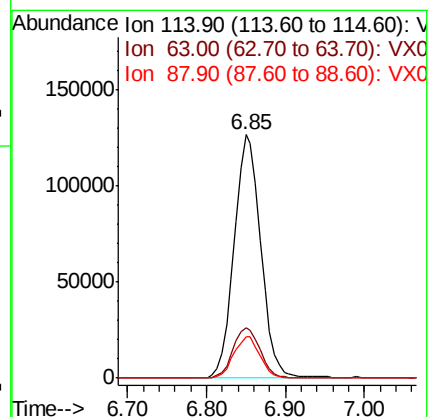
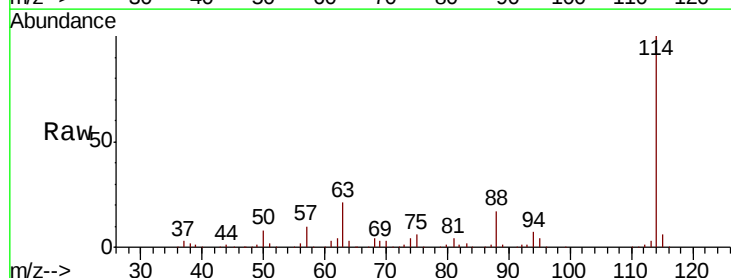
Tgt Ion: 114 Resp: 297140

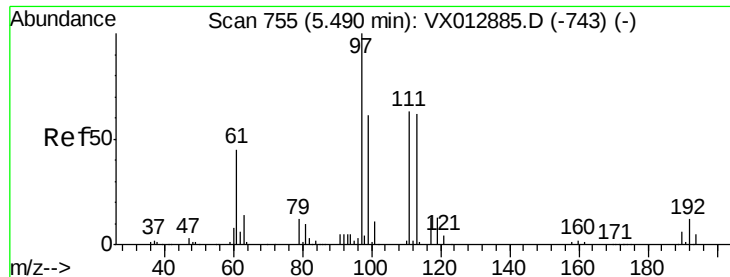
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 17.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.352 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

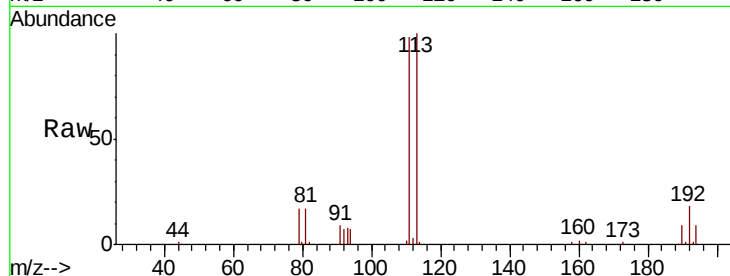
Tot Ion:113 Resp: 89282

Ion Ratio Lower Upper

113 100

111 100.7 83.2 124.8

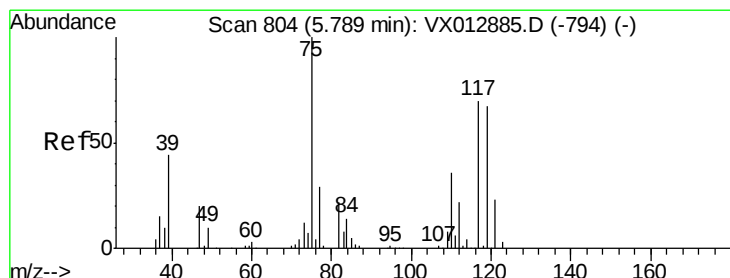
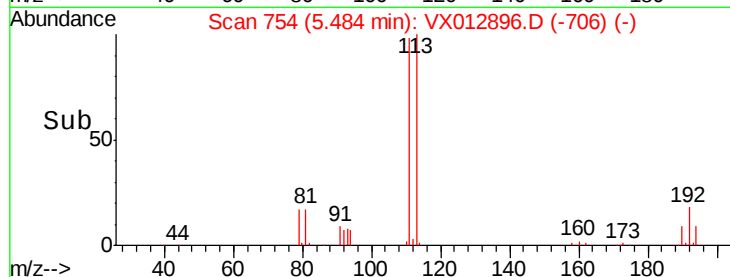
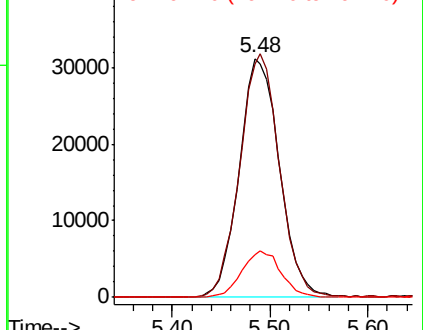
192 19.1 15.4 23.2



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: 5.350 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

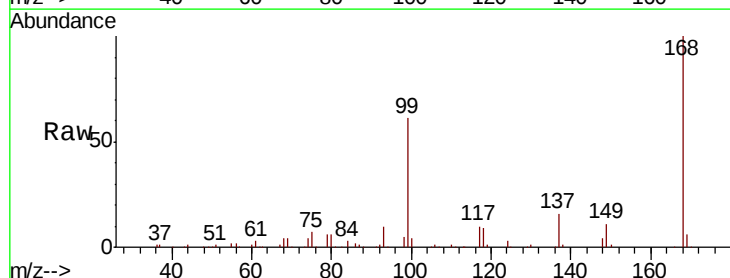
Tgt Ion: 75 Resp: 13978

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

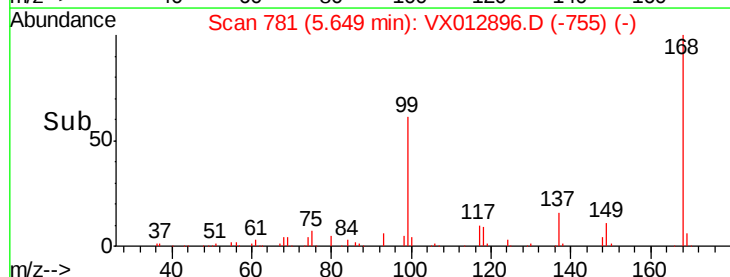
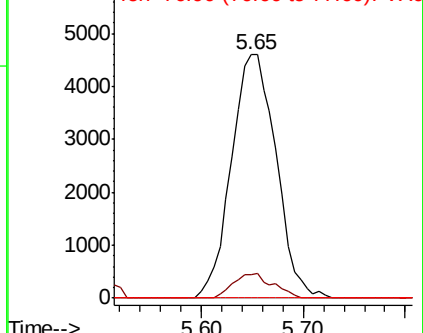
77 0.0 24.4 36.6#

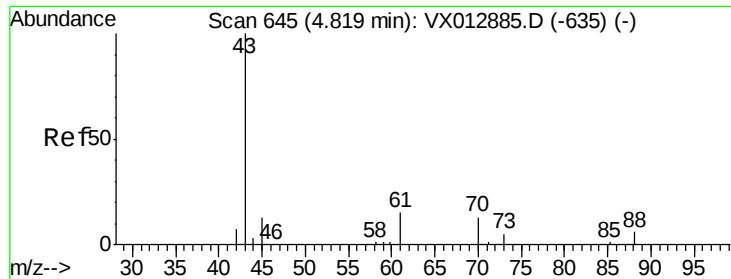


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

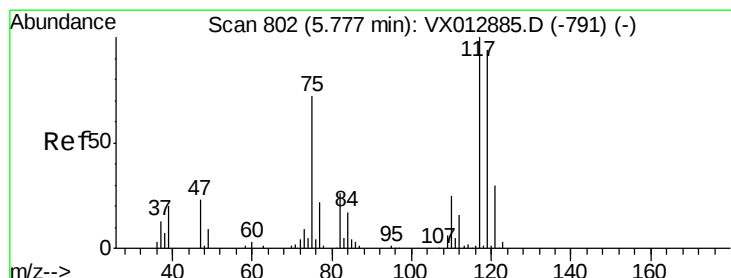
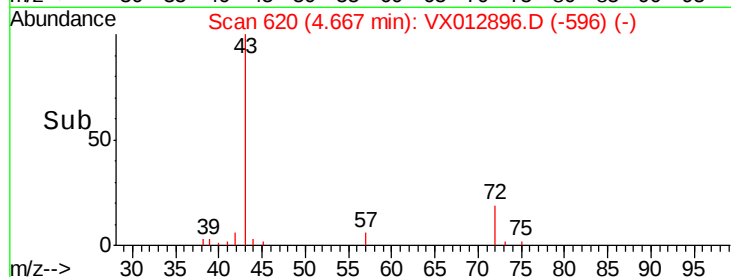
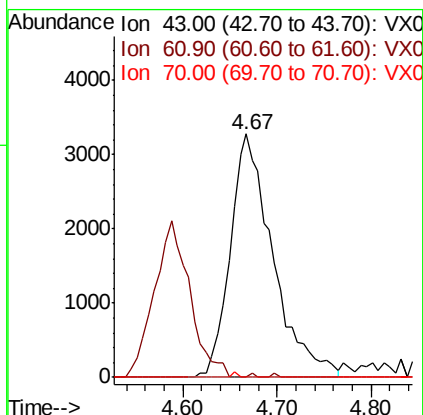
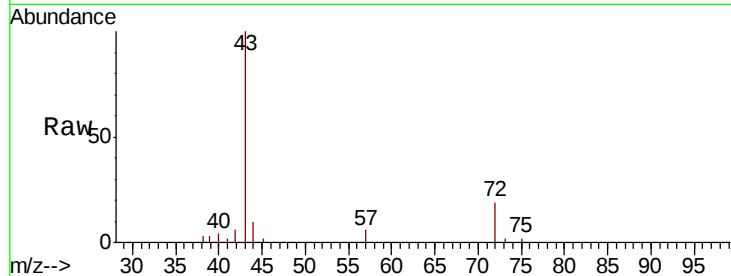




#37
Ethyl Acetate
Concen: 3.534 ug/l
RT: 4.67 min Scan# 620
Delta R.T. -0.15 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

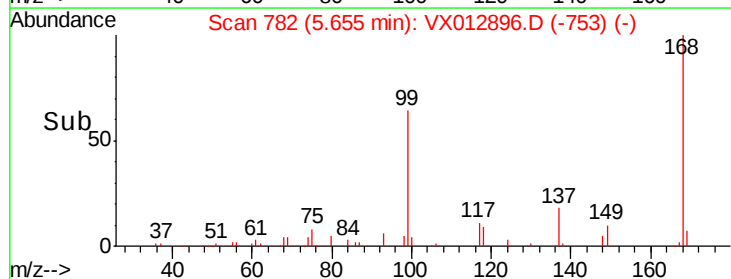
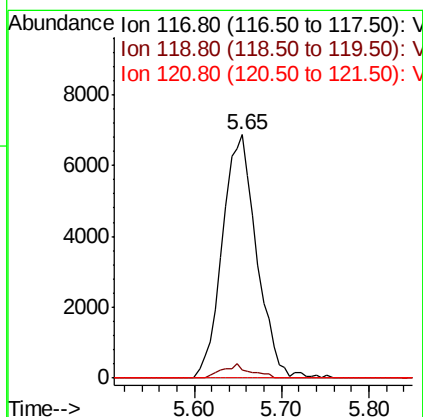
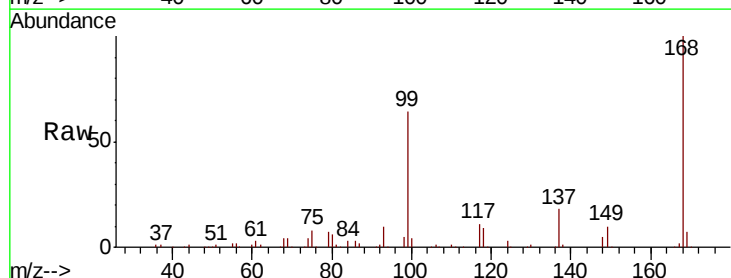
Instrument :
MSVOA_X
ClientSampleId :

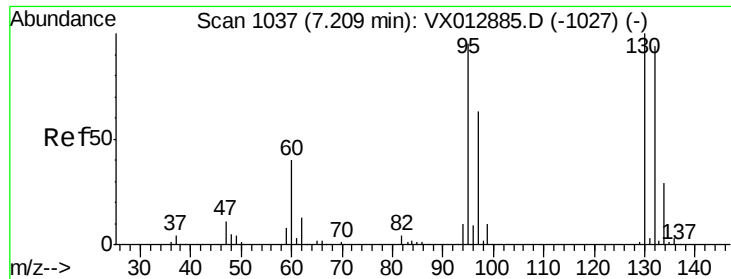
Tot Ion: 43 Resp: 10325
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.2 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 7.373 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 117 Resp: 18747
Ion Ratio Lower Upper
117 100
119 3.3 74.5 111.7#
121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 0.935 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

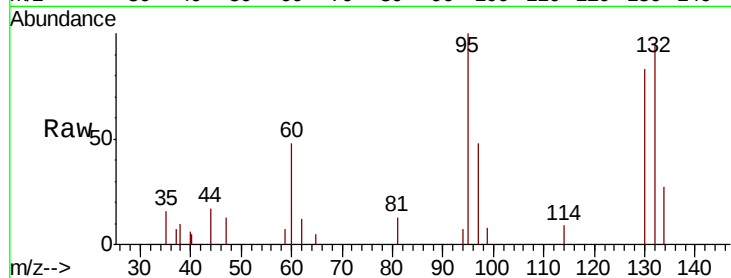
ClientSampleId :

Tot Ion:130 Resp: 2000

Ion Ratio Lower Upper

130 100

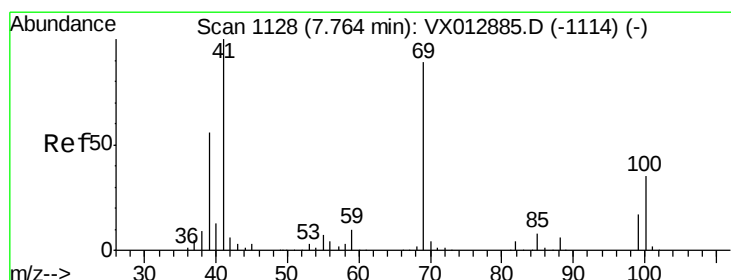
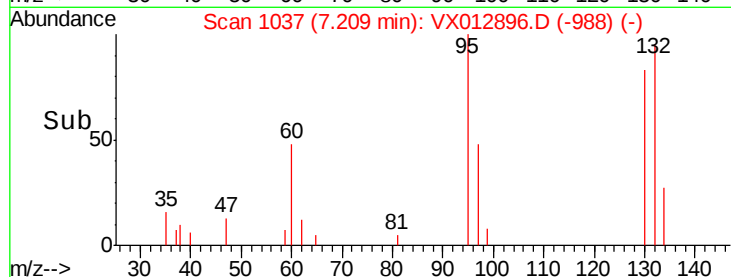
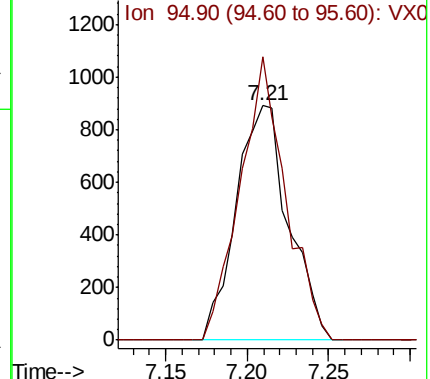
95 120.9 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21



#48

Methyl methacrylate

Concen: 0.828 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.11 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

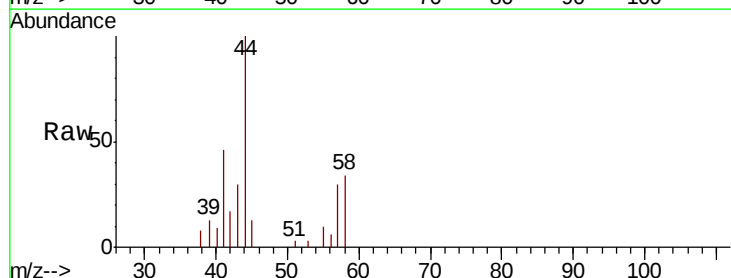
Tgt Ion: 41 Resp: 1891

Ion Ratio Lower Upper

41 100

69 0.0 68.7 103.1#

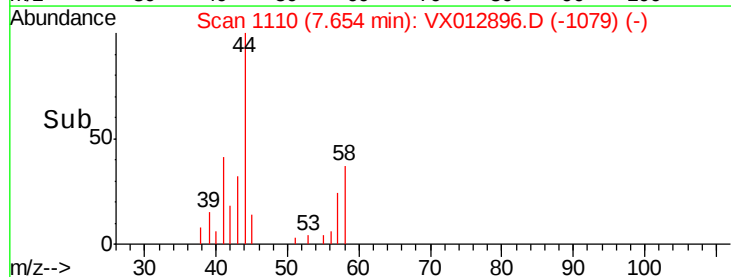
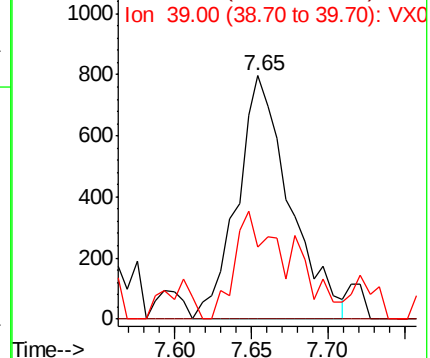
39 33.2 44.3 66.5#

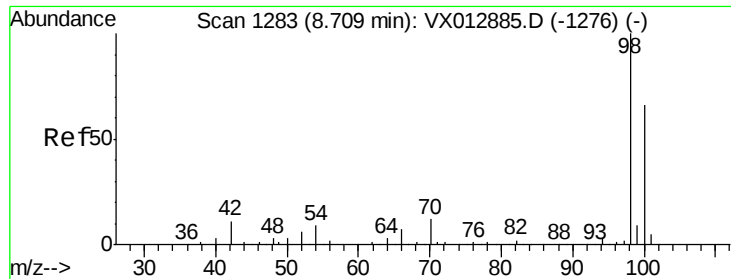


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 52.276 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

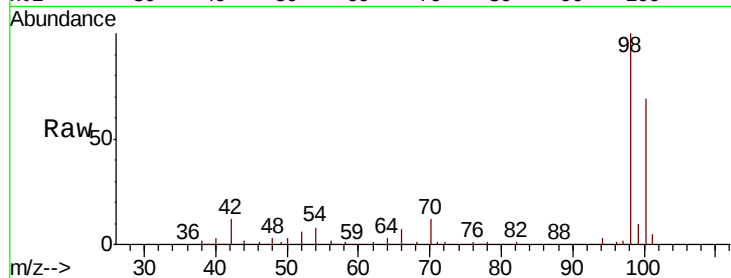
ClientSampleId :

Tot Ion: 98 Resp: 347719

Ion Ratio Lower Upper

98 100

100 68.0 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

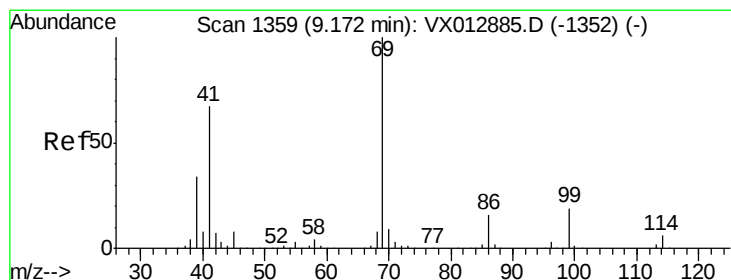
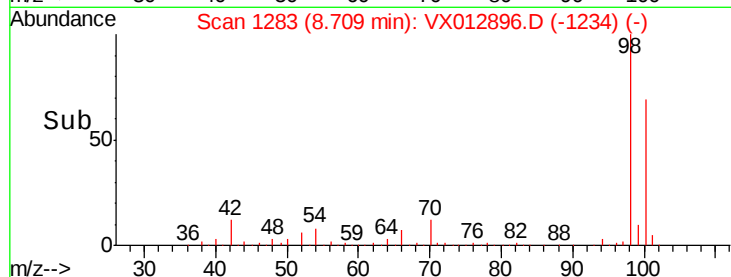
150000

100000

50000

0

Time-->



#56

Ethyl methacrylate

Concen: 1.844 ug/l

RT: 9.11 min Scan# 1349

Delta R.T. -0.06 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

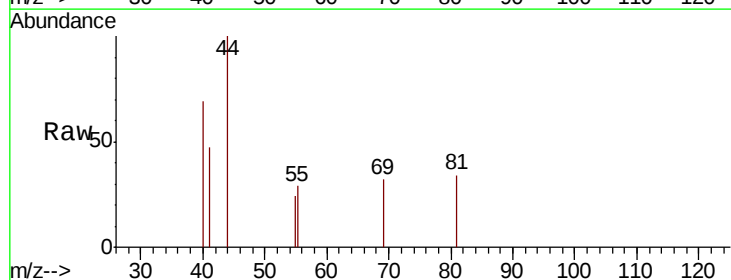
Tgt Ion: 69 Resp: 46

Ion Ratio Lower Upper

69 100

41 615.2 52.1 78.1#

39 260.9 27.8 41.8#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

250

200

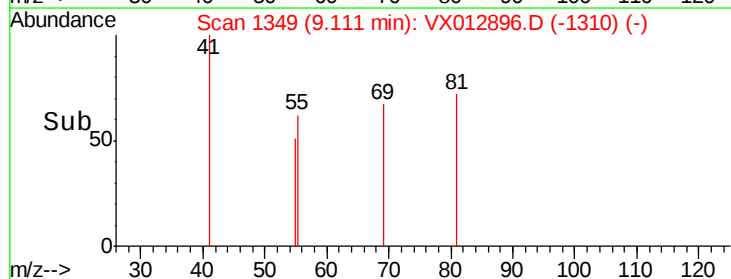
150

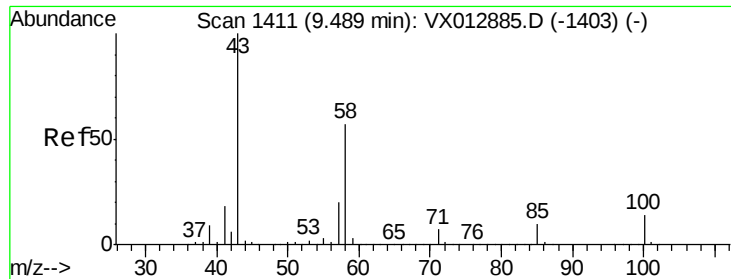
100

50

0

Time-->

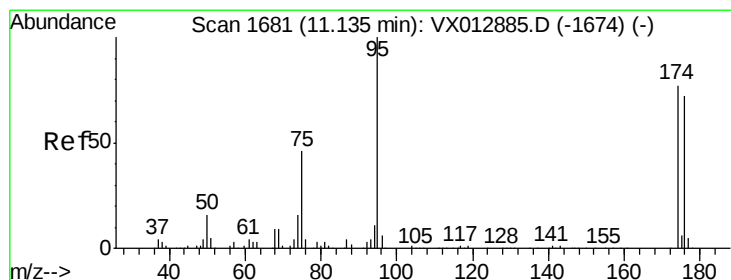
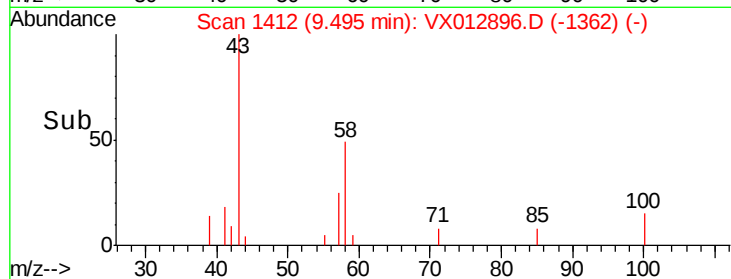
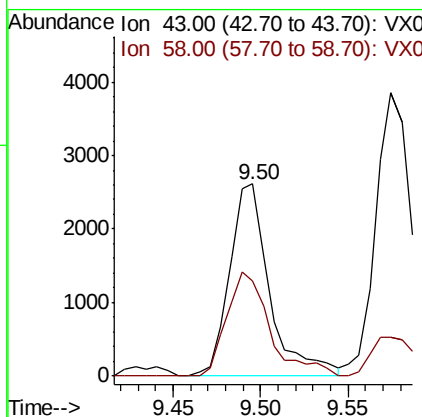
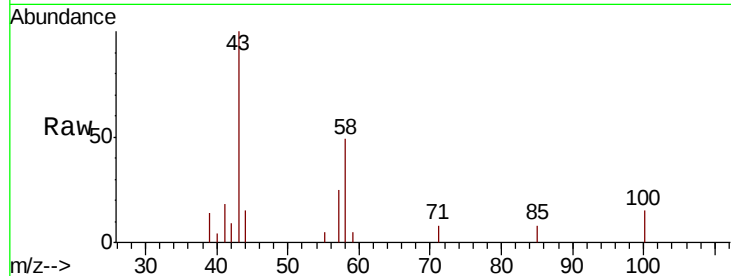




#59
2-Hexanone
Concen: 1.834 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

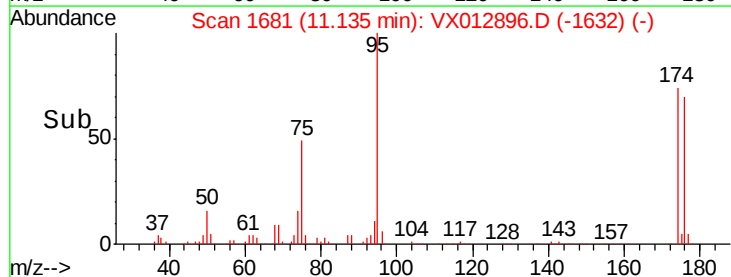
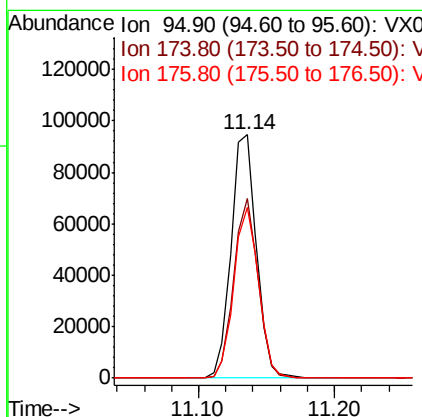
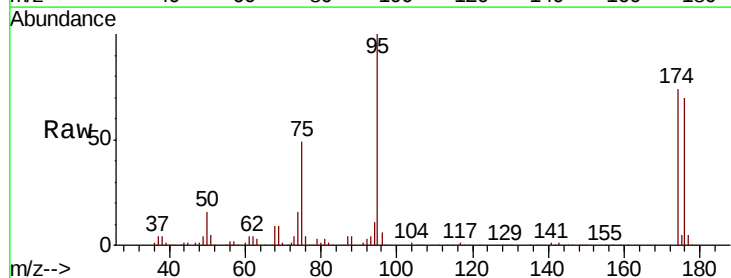
Instrument :
MSVOA_X
ClientSampled :

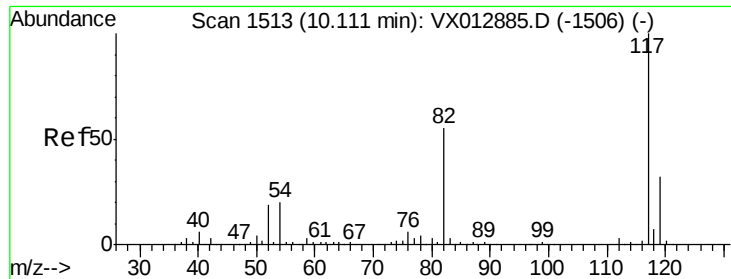
Tot Ion: 43 Resp: 4173
Ion Ratio Lower Upper
43 100
58 58.2 28.1 84.3



#62
4-Bromofluorobenzene
Concen: 47.432 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion: 95 Resp: 122590
Ion Ratio Lower Upper
95 100
174 71.1 0.0 143.4
176 68.9 0.0 136.0

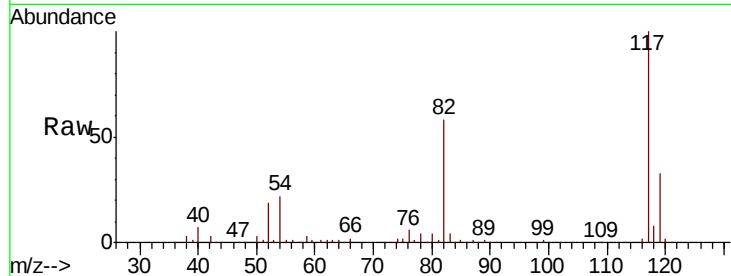




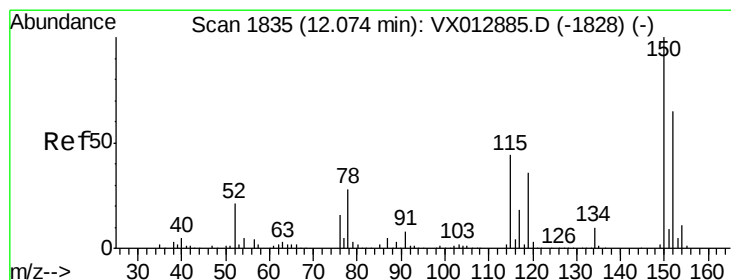
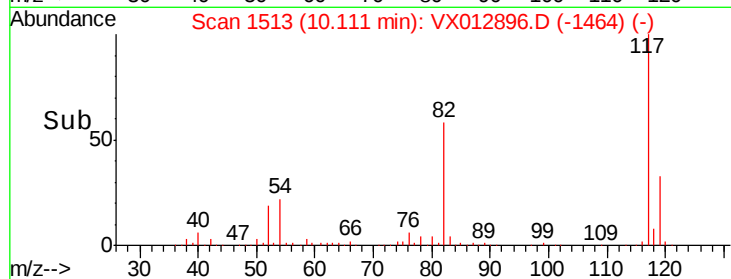
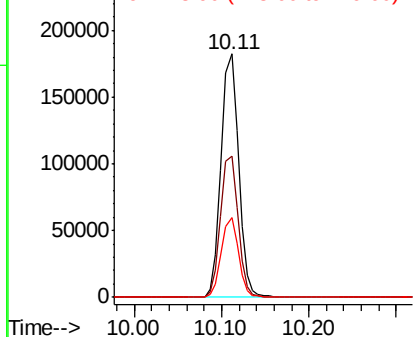
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 253043
Ion Ratio Lower Upper
117 100
82 58.1 44.1 66.1
119 32.6 25.8 38.8

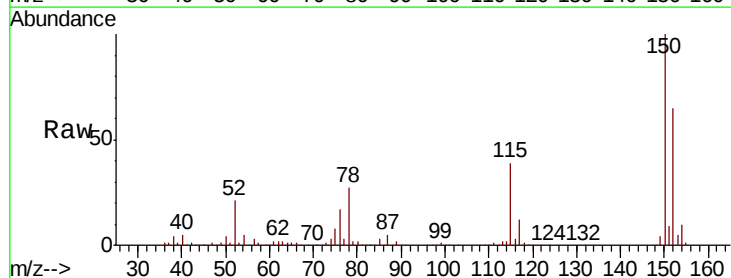


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

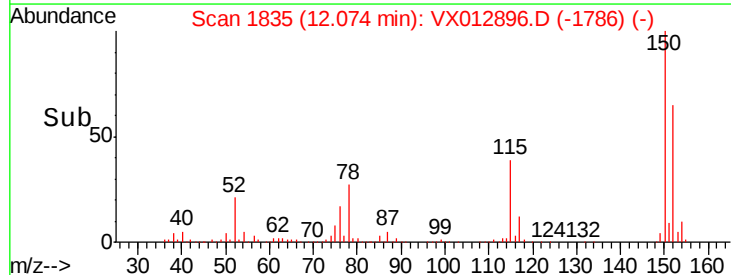
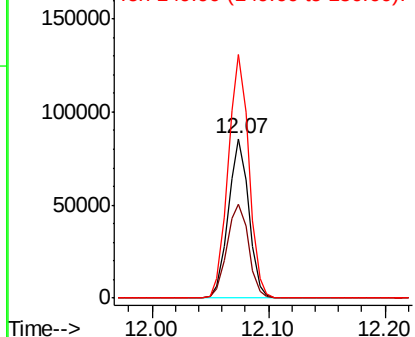


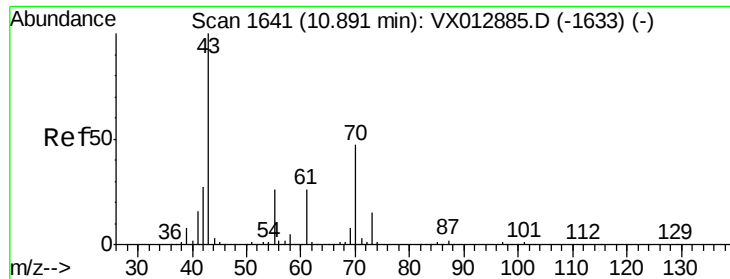
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012896.D
Acq: 08 Oct 2019 17:50

Tgt Ion:152 Resp: 104001
Ion Ratio Lower Upper
152 100
115 62.6 44.5 133.5
150 155.7 0.0 353.4



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





#74

N-amvl acetate

Concen: 0.823 ug/l

RT: 10.93 min Scan# 1647

Delta R.T. 0.04 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 2709

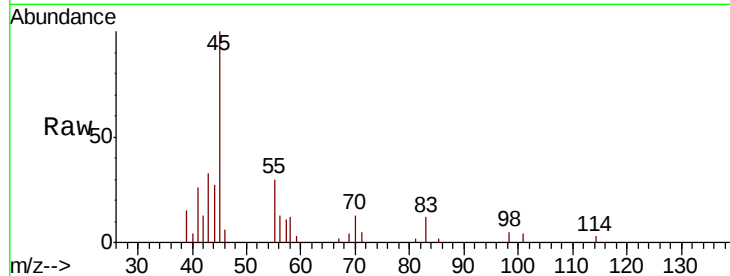
Ion Ratio Lower Upper

43 100

70 53.9 36.4 54.6

55 76.5 20.2 30.2#

61 0.0 20.5 30.7#

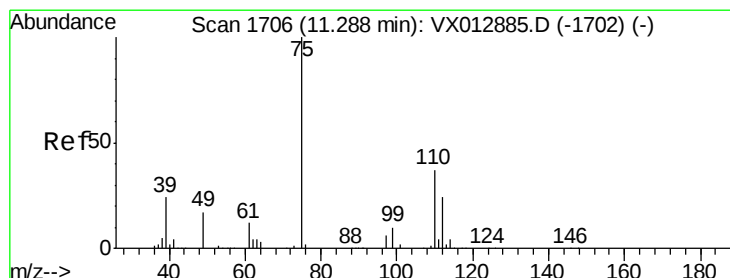
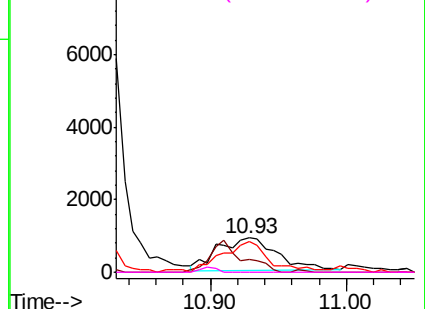
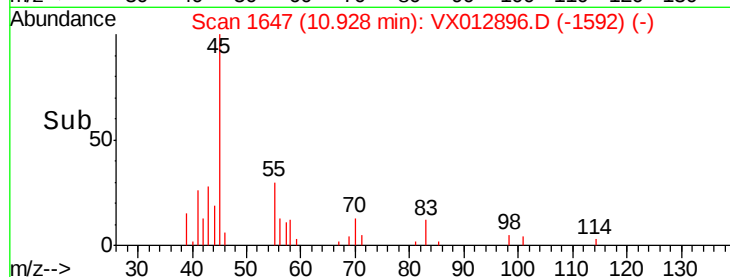


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 26.755 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX012896.D

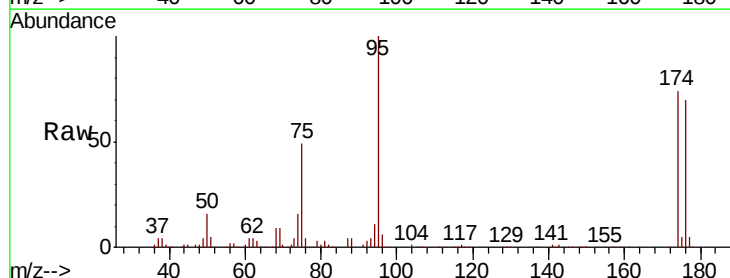
Acq: 08 Oct 2019 17:50

Tgt Ion: 75 Resp: 61717

Ion Ratio Lower Upper

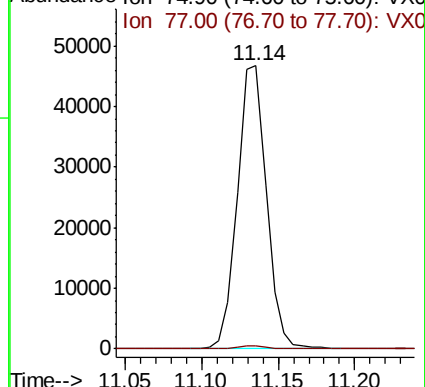
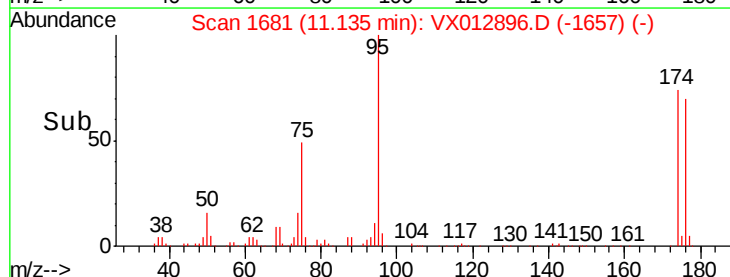
75 100

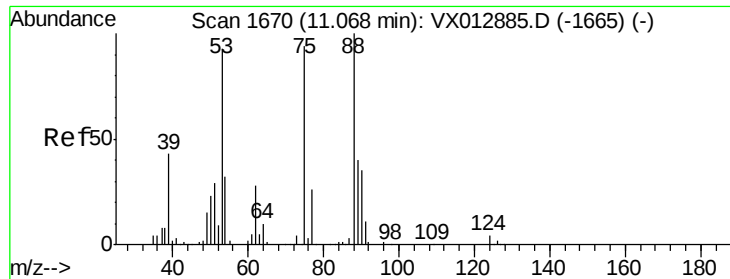
77 1.1 22.9 68.8#



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: 67.265 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012896.D

Acq: 08 Oct 2019 17:50

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 61717

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

