

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011337.D
 Acq On : 05 Aug 2019 19:34
 Operator : JC/SP
 Sample : K4136-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:41:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	179755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	263703	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	107049	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	89077	49.21	ug/l	0.00
Spiked Amount						
			Recovery	=	98.42%	
35) Dibromofluoromethane	5.49	113	80326	46.66	ug/l	0.00
Spiked Amount						
			Recovery	=	93.32%	
50) Toluene-d8	8.71	98	317013	48.78	ug/l	0.00
Spiked Amount						
			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.13	95	99586	42.92	ug/l	0.00
Spiked Amount						
			Recovery	=	85.84%	

Target Compounds

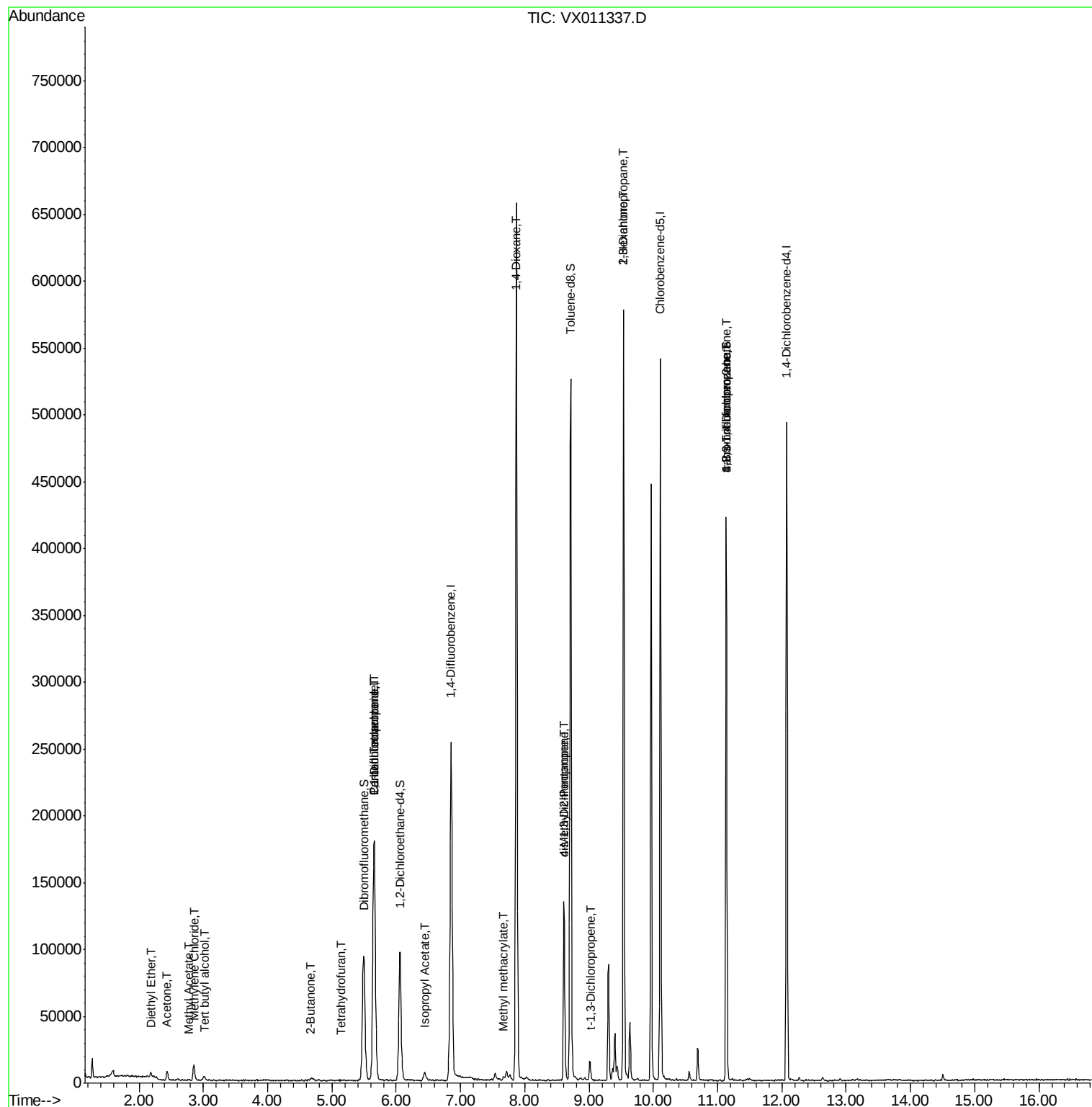
					Qvalue
6) Chloroethane	1.70	64	132	Below Cal	# 76
8) Diethyl Ether	2.18	74	1334	1.225	ug/l 95
11) Tert butyl alcohol	3.01	59	2009	5.588	ug/l # 75
13) Acrolein	2.29	56	59	Below Cal	# 1
16) Acetone	2.43	43	7416	8.607	ug/l 94
18) Methyl Acetate	2.78	43	931	0.473	ug/l 95
20) Methylene Chloride	2.85	84	5483	2.906	ug/l 92
25) 2-Butanone	4.67	43	316	0.258	ug/l 91
29) Tetrahydrofuran	5.13	42	265	0.353	ug/l # 86
36) 1,1-Dichloropropene	5.65	75	12716	5.523	ug/l # 48
38) Carbon Tetrachloride	5.65	117	17220	7.434	ug/l # 15
43) Isopropyl Acetate	6.44	43	8054	2.181	ug/l # 92
48) Methyl methacrylate	7.67	41	4368	2.514	ug/l # 11
49) 1,4-Dioxane	7.87	88	244	4.844	ug/l # 1
51) 4-Methyl-2-Pentanone	8.61	43	41962	17.610	ug/l # 49
53) t-1,3-Dichloropropene	9.04	75	59	2.860	ug/l # 43
54) cis-1,3-Dichloropropene	8.61	75	21341	8.307	ug/l # 68
57) 1,3-Dichloropropane	9.54	76	5366	1.817	ug/l # 43
59) 2-Hexanone	9.54	43	64495	34.944	ug/l # 51
76) 1,2,3-Trichloropropane	11.13	75	50574	25.942	ug/l # 35
81) trans-1,4-Dichloro-2-buten	11.13	75	50574	67.527	ug/l # 11

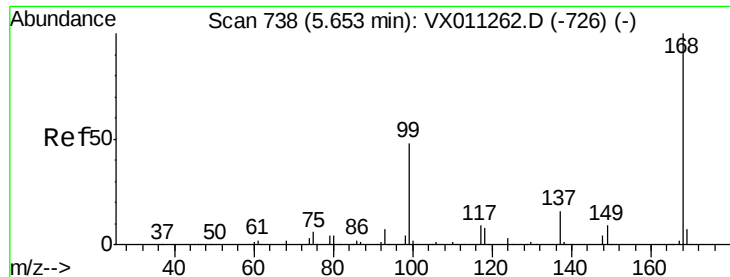
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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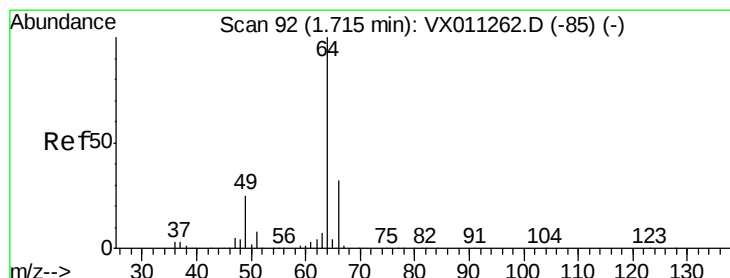
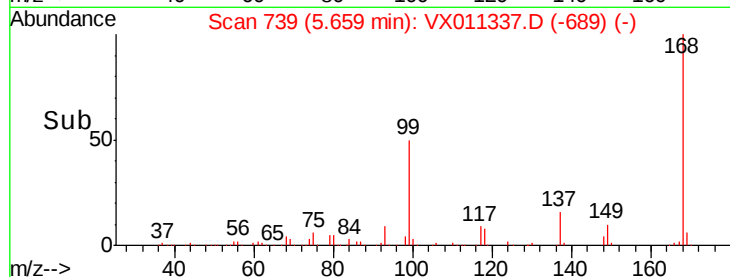
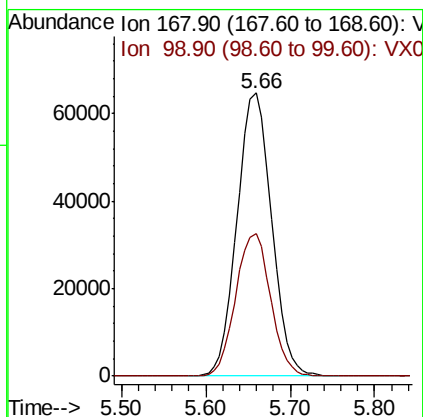
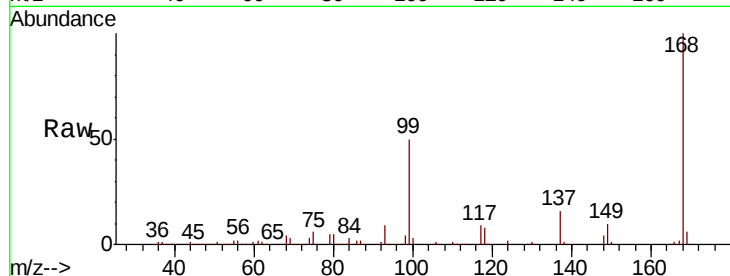




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.01 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

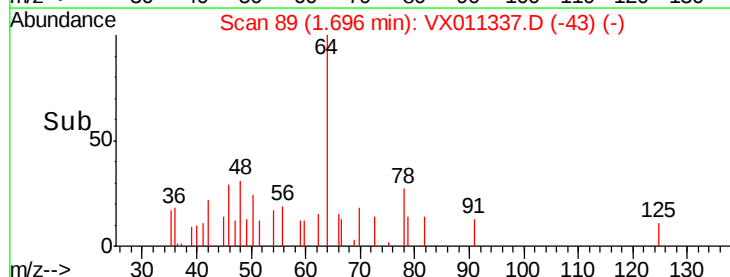
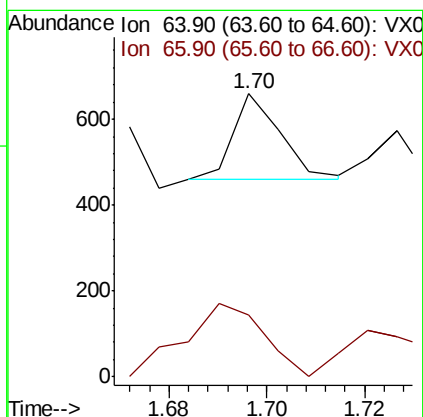
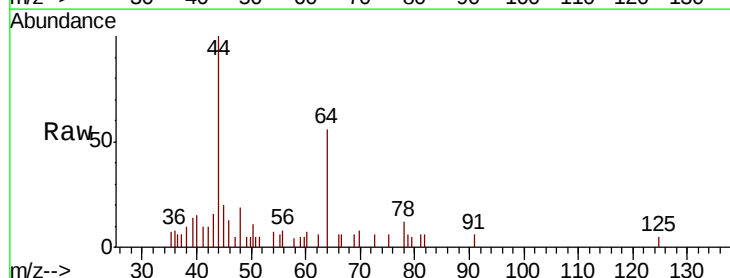
Instrument :
MSVOA_X
ClientSampleId :

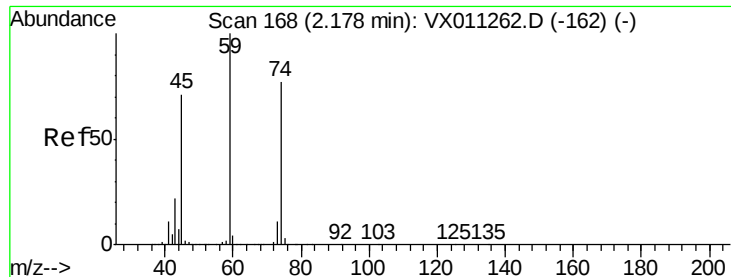
Tot Ion:168 Resp: 179755
Ion Ratio Lower Upper
168 100
99 50.1 38.5 57.7



#6
Chloroethane
Concen: Below Cal
RT: 1.70 min Scan# 89
Delta R.T. -0.02 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

Tgt Ion: 64 Resp: 132
Ion Ratio Lower Upper
64 100
66 44.4 25.1 37.7#





#8

Diethyl Ether

Concen: 1.225 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

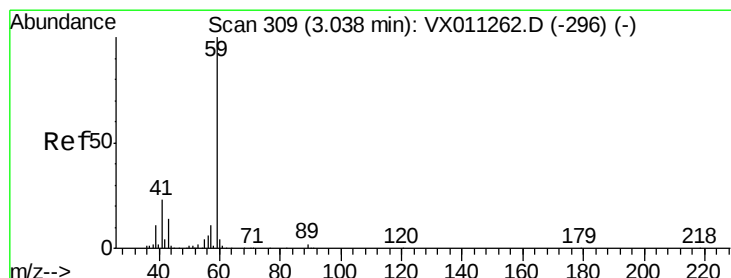
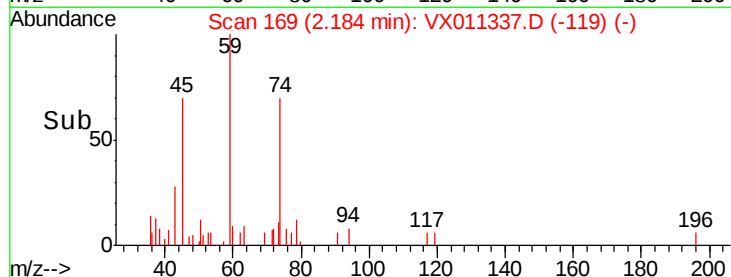
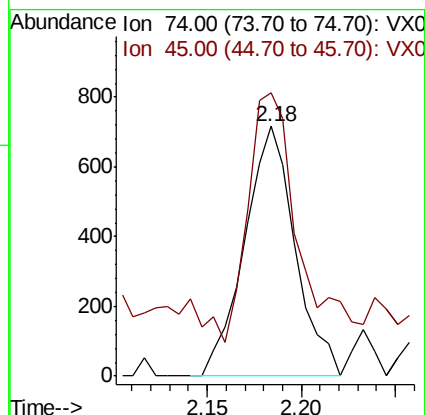
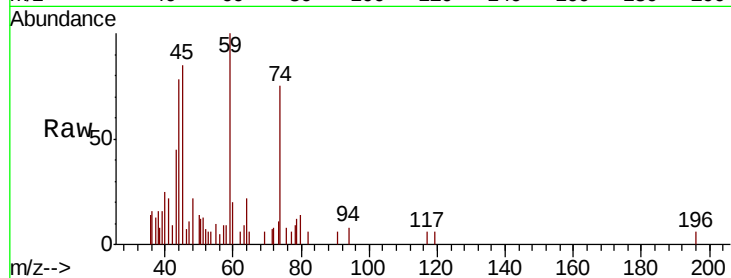
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 74 Resp: 1334

Ion Ratio Lower Upper

74 100

45 97.0 46.1 138.3



#11

Tert butyl alcohol

Concen: 5.588 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011337.D

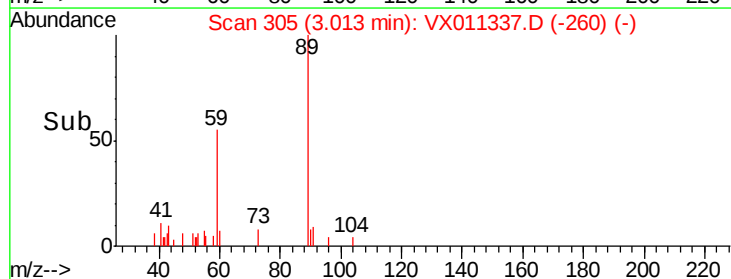
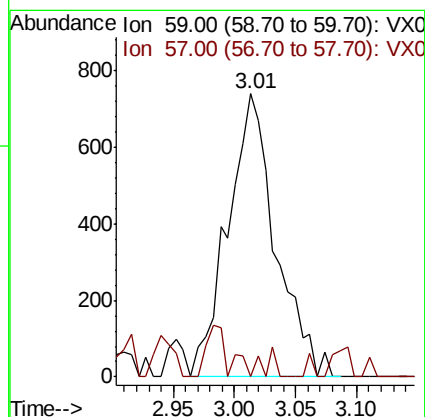
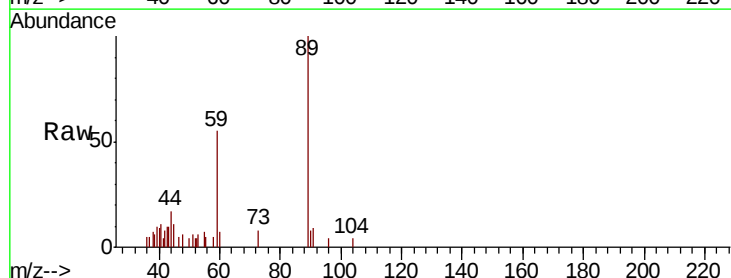
Acq: 05 Aug 2019 19:34

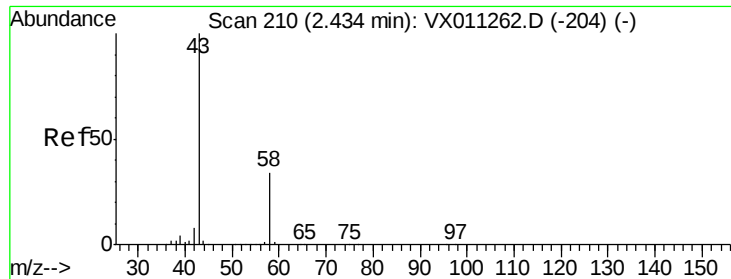
Tgt Ion: 59 Resp: 2009

Ion Ratio Lower Upper

59 100

57 1.0 8.3 12.5#





#16

Acetone

Concen: 8.607 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

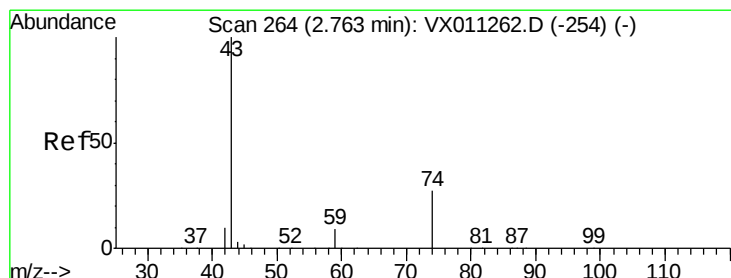
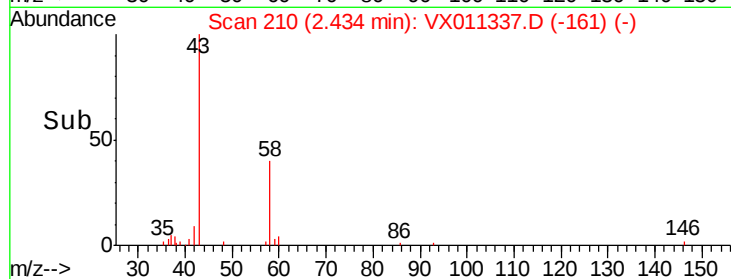
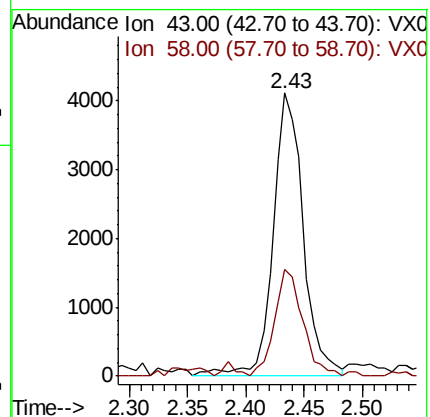
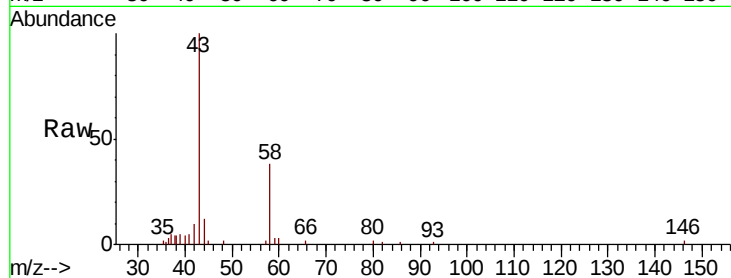
ClientSampleId :

Tot Ion: 43 Resp: 7416

Ion Ratio Lower Upper

43 100

58 37.8 27.4 41.0



#18

Methyl Acetate

Concen: 0.473 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX011337.D

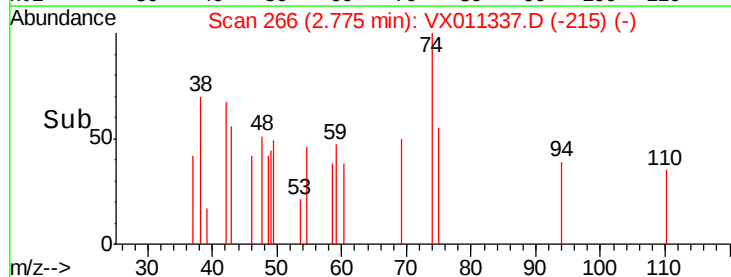
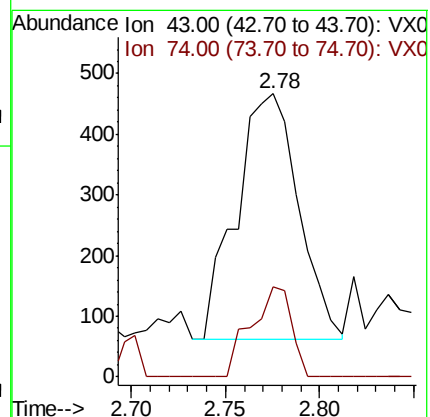
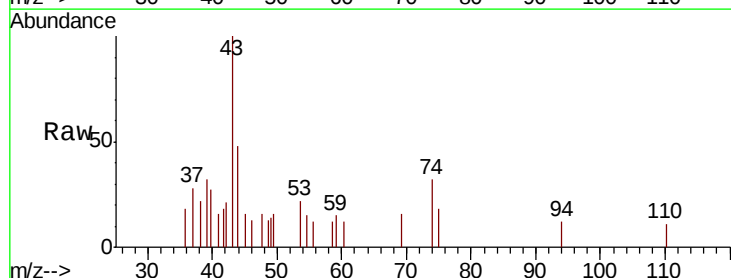
Acq: 05 Aug 2019 19:34

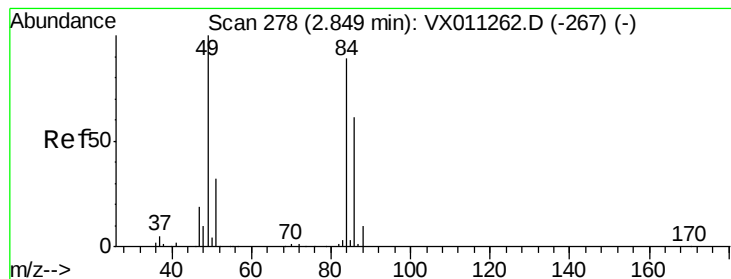
Tgt Ion: 43 Resp: 931

Ion Ratio Lower Upper

43 100

74 23.6 21.0 31.6





#20

Methvlene Chloride

Concen: 2.906 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

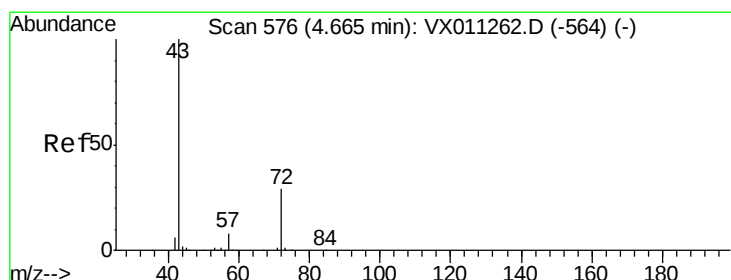
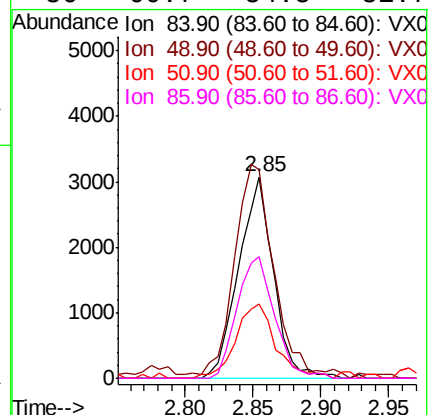
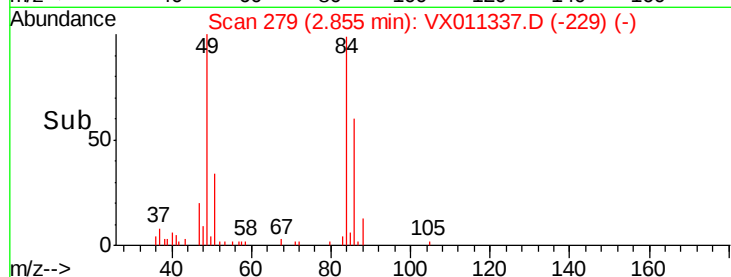
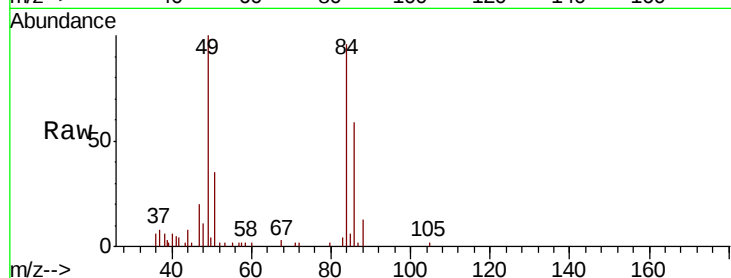
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 5483

Ion	Ratio	Lower	Upper
84	100		
49	101.1	89.3	133.9
51	36.7	28.3	42.5
86	60.7	54.5	81.7



#25

2-Butanone

Concen: 0.258 ug/l

RT: 4.67 min Scan# 576

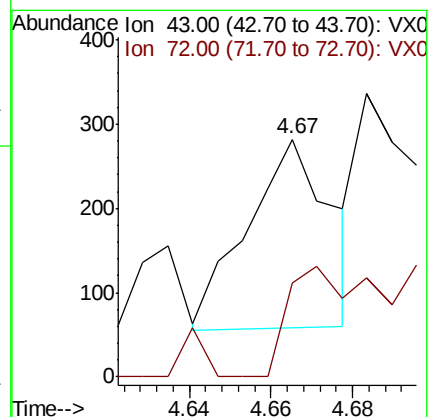
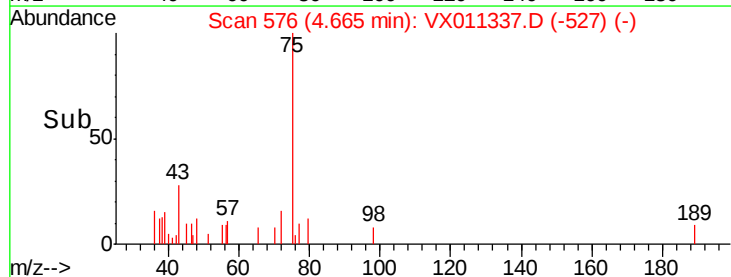
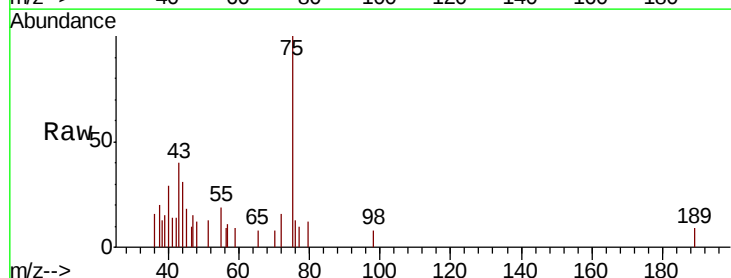
Delta R.T. -0.00 min

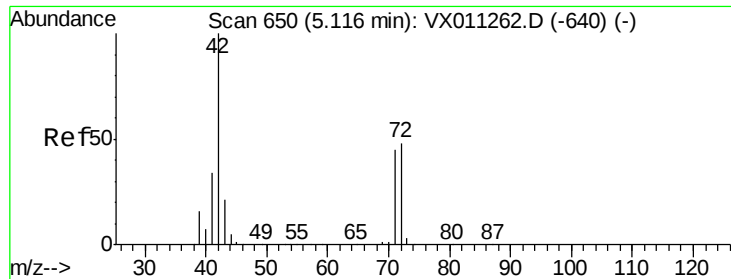
Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Tgt Ion: 43 Resp: 316

Ion	Ratio	Lower	Upper
43	100		
72	24.2	23.2	34.8

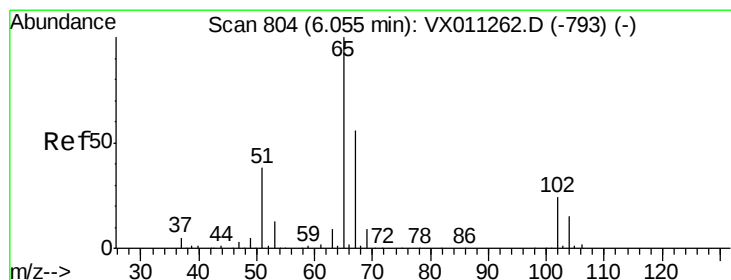
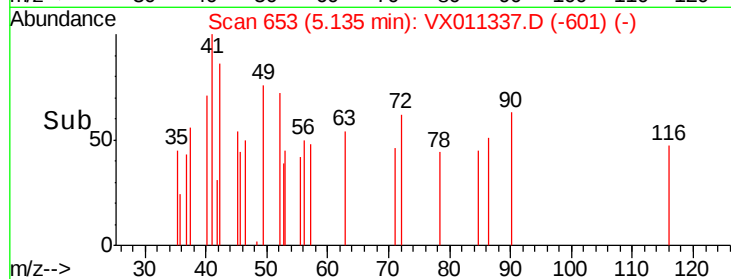
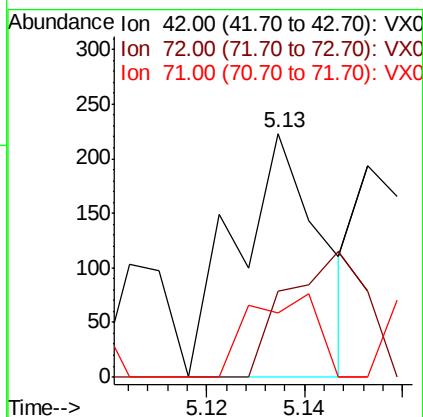
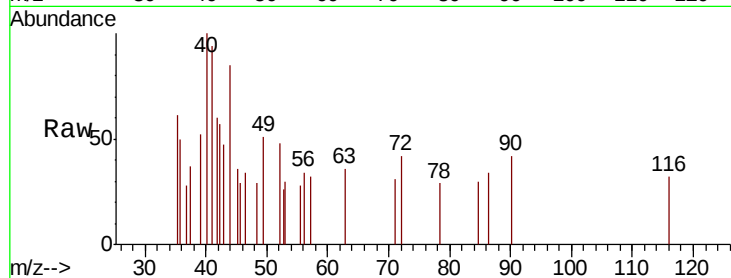




#29
Tetrahydrofuran
Concen: 0.353 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.02 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

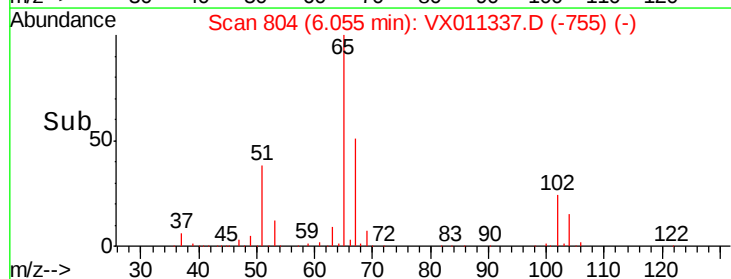
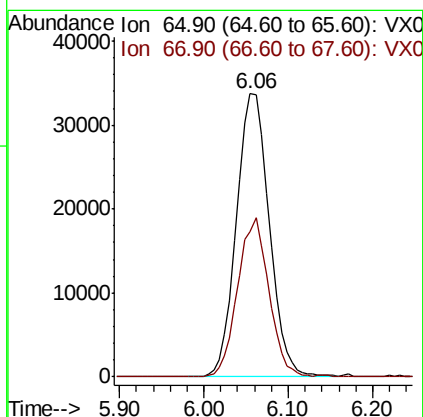
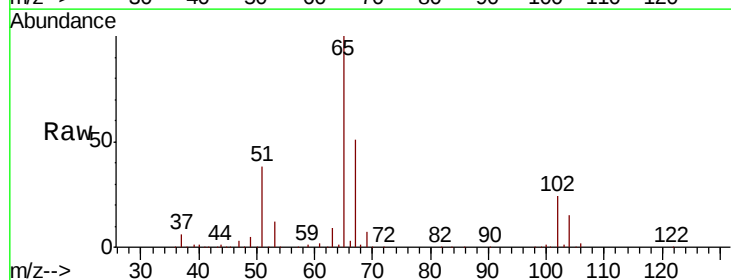
Instrument :
MSVOA_X
ClientSampled :

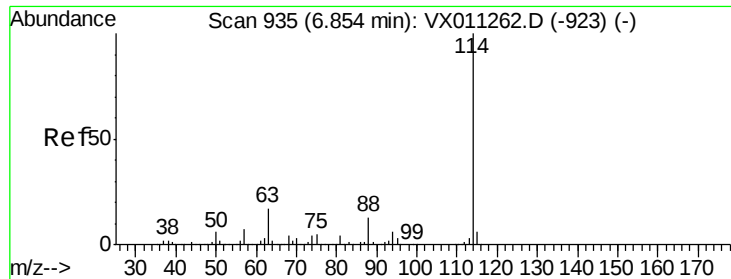
Tot Ion: 42 Resp: 265
Ion Ratio Lower Upper
42 100
72 49.4 39.9 59.9
71 27.9 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 49.208 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

Tgt Ion: 65 Resp: 89077
Ion Ratio Lower Upper
65 100
67 53.5 0.0 110.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

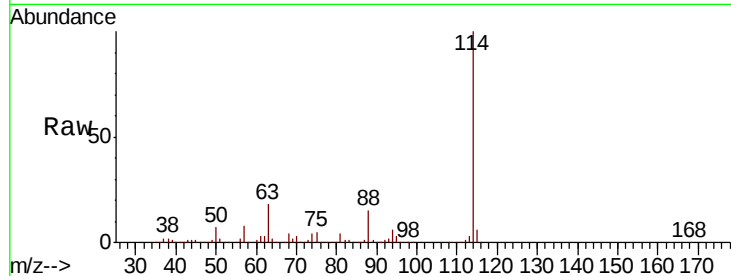
Tot Ion:114 Resp: 263703

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.0

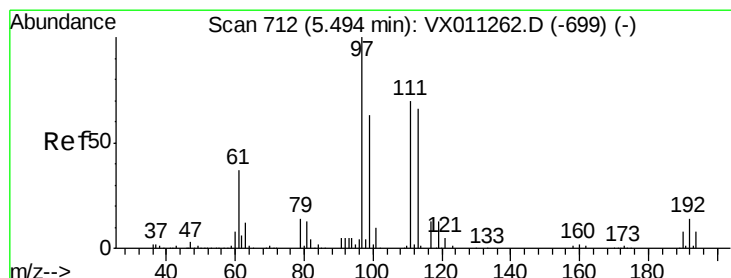
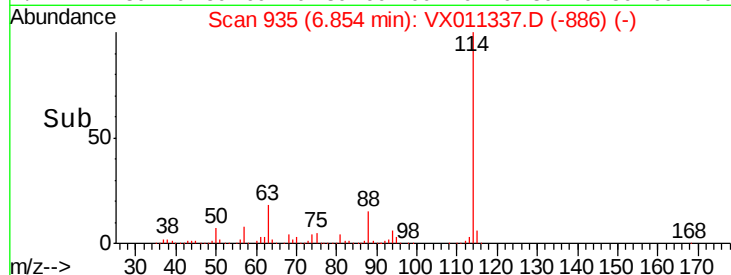
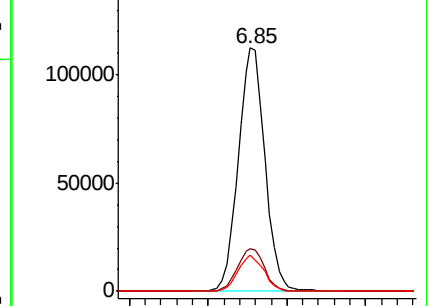
88 14.9 0.0 26.4



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: 46.656 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

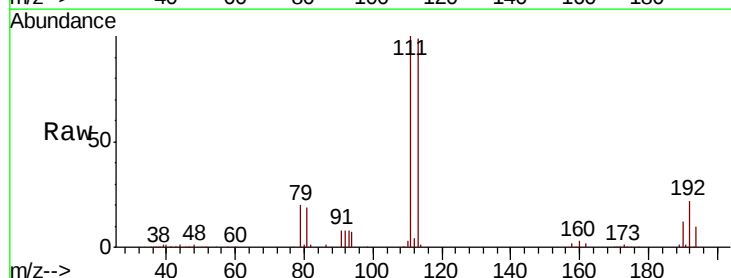
Tgt Ion:113 Resp: 80326

Ion Ratio Lower Upper

113 100

111 100.6 81.9 122.9

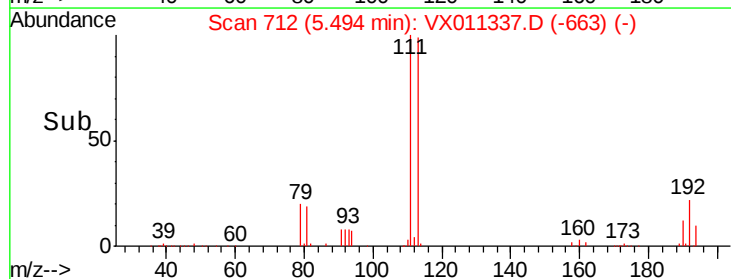
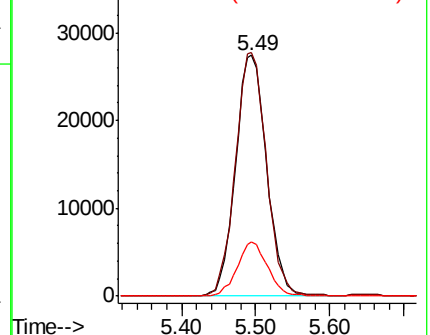
192 21.9 17.8 26.8

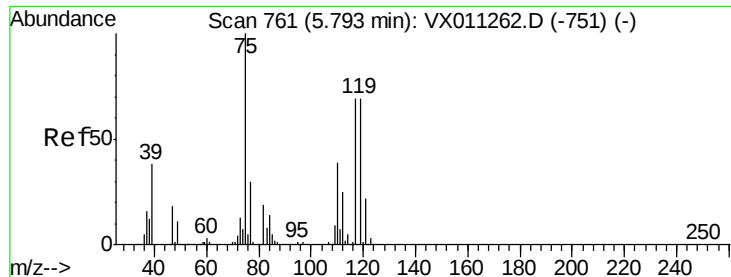


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.523 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

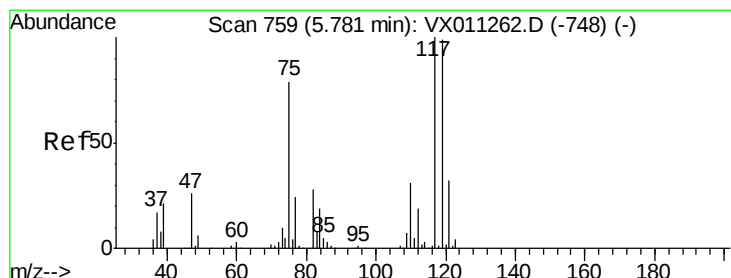
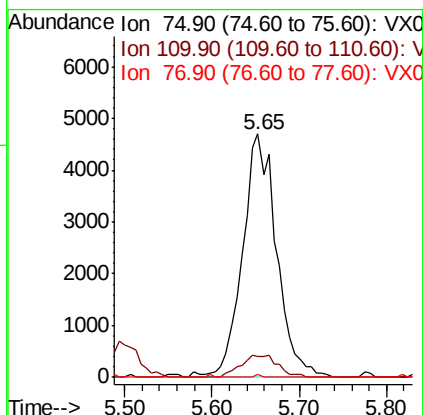
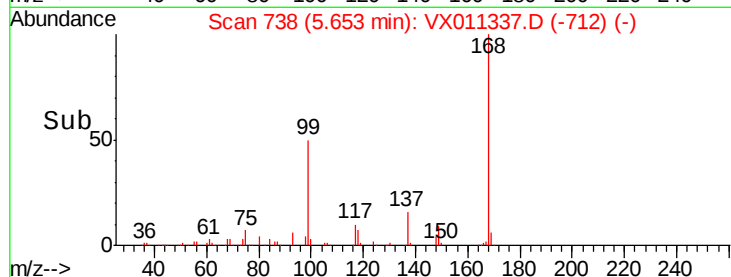
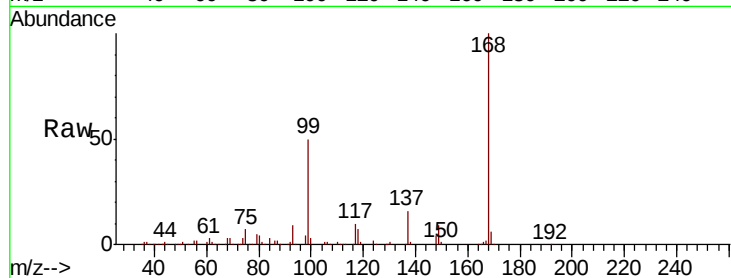
Tot Ion: 75 Resp: 12716

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.434 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

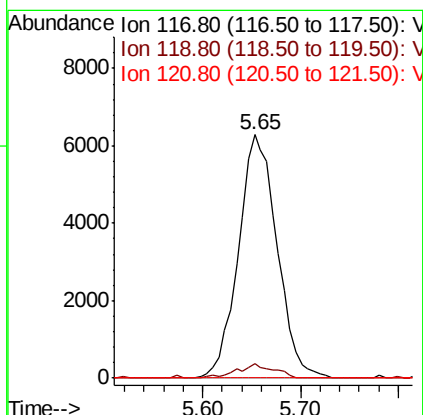
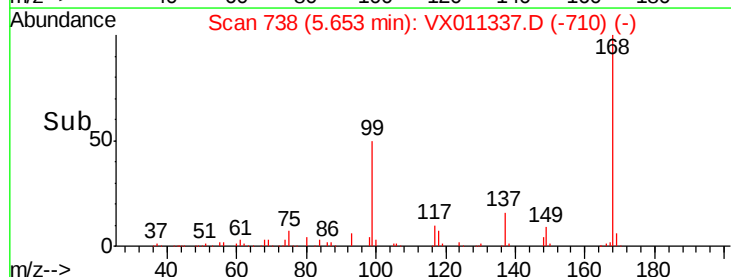
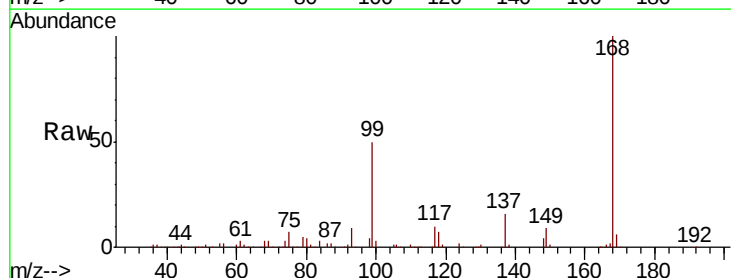
Tgt Ion: 117 Resp: 17220

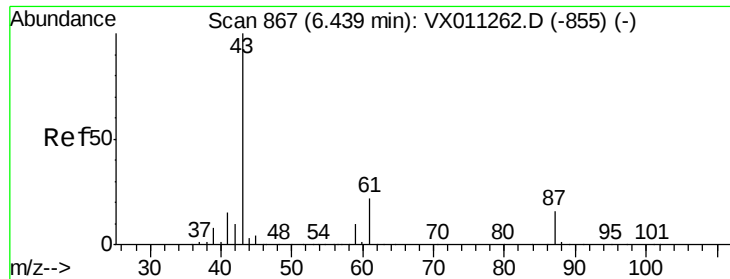
Ion Ratio Lower Upper

117 100

119 6.0 79.0 118.4#

121 0.0 25.9 38.9#





#43

Isopropyl Acetate

Concen: 2.181 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

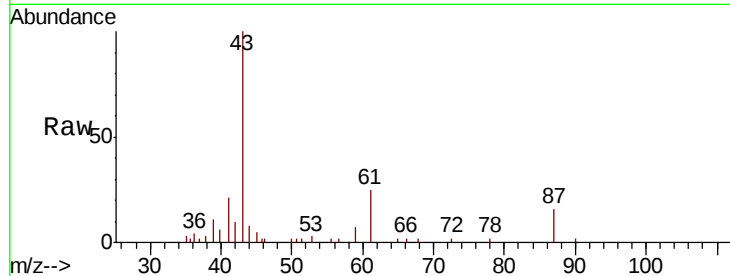
Tot Ion: 43 Resp: 8054

Ion Ratio Lower Upper

43 100

61 25.7 16.5 24.7#

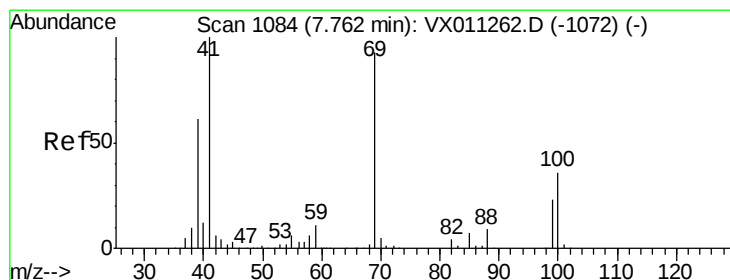
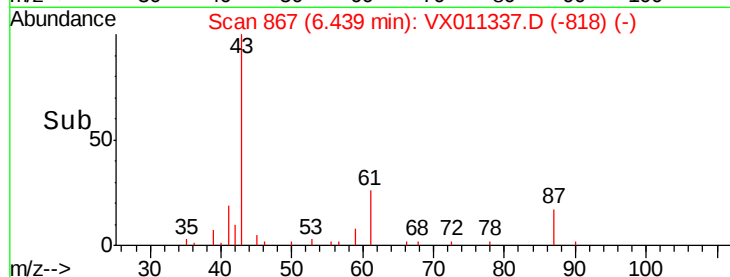
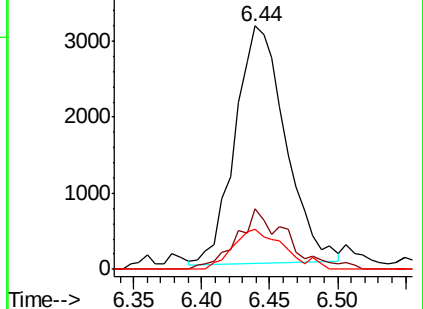
87 17.2 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.514 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

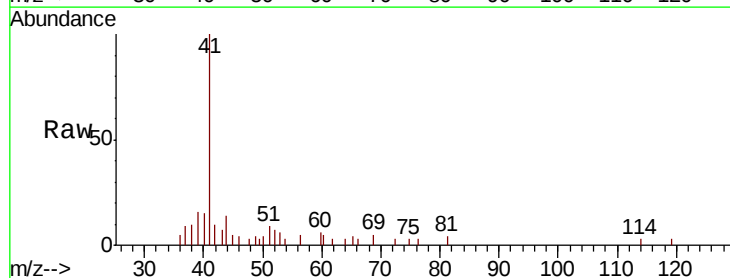
Tgt Ion: 41 Resp: 4368

Ion Ratio Lower Upper

41 100

69 1.9 74.5 111.7#

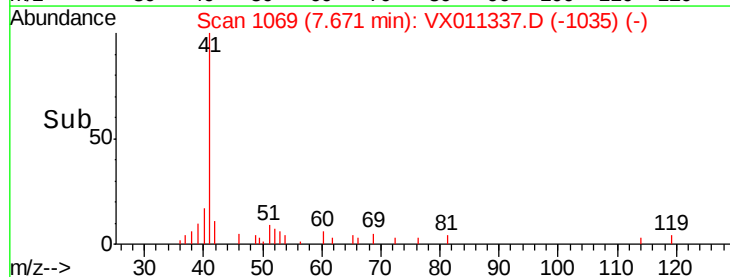
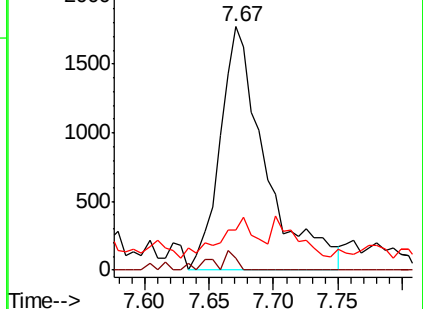
39 0.0 48.6 72.8#

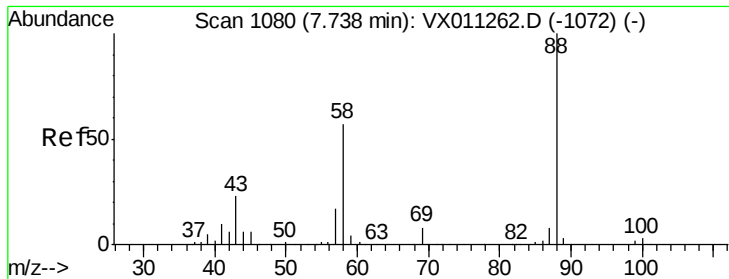


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 4.844 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

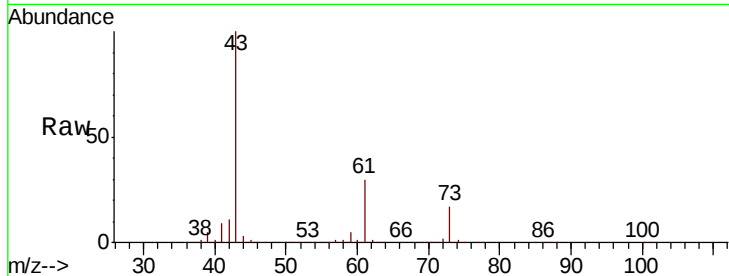
Tot Ion: 88 Resp: 244

Ion Ratio Lower Upper

88 100

43 240005.3 22.2 33.2#

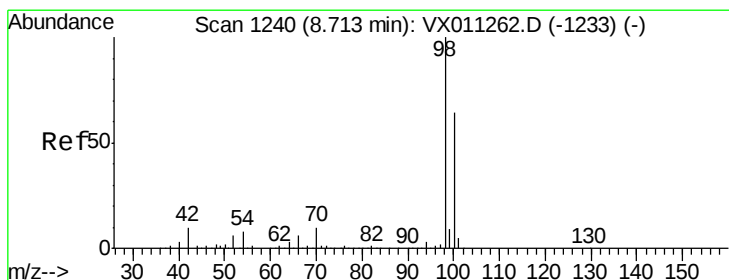
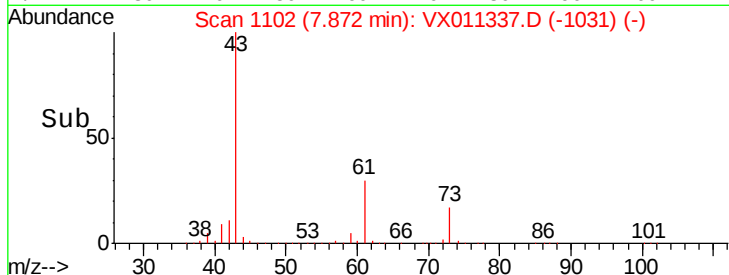
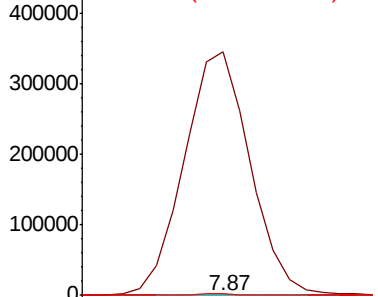
58 1315.2 47.8 71.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.781 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011337.D

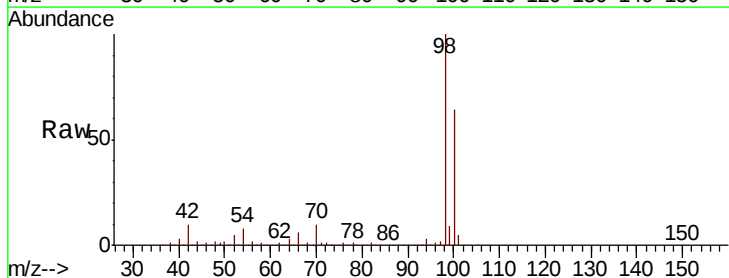
Acq: 05 Aug 2019 19:34

Tgt Ion: 98 Resp: 317013

Ion Ratio Lower Upper

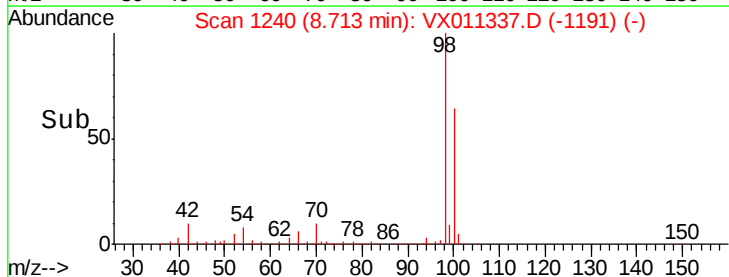
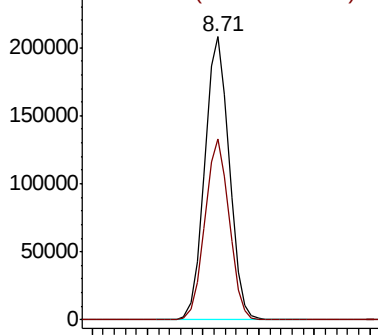
98 100

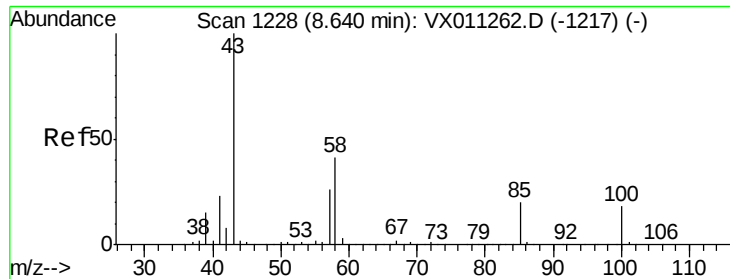
100 63.6 51.7 77.5



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: 17.610 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

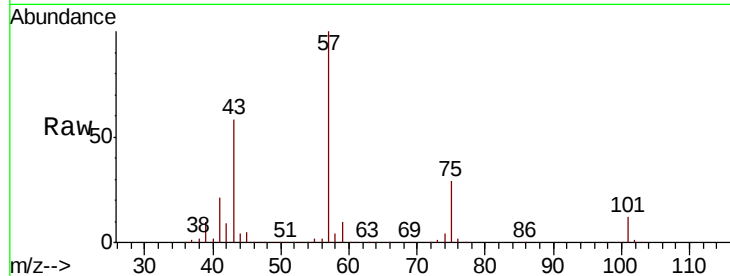
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 41962

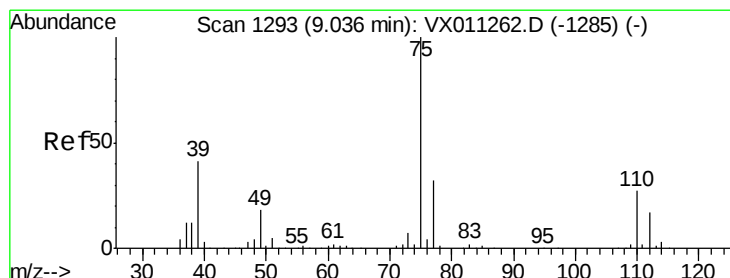
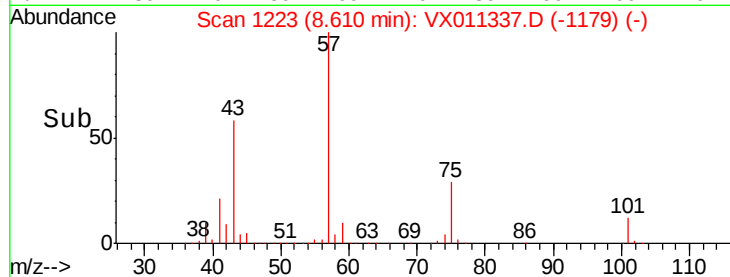
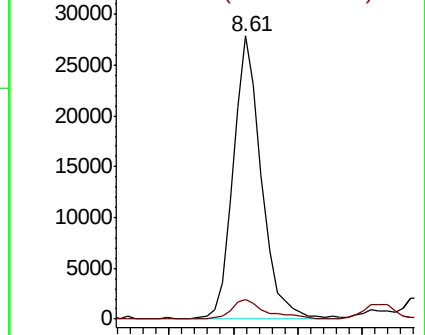
Ion Ratio Lower Upper

43 100

58 8.6 32.3 48.5#



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



#53

t-1,3-Dichloropropene

Concen: 2.860 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX011337.D

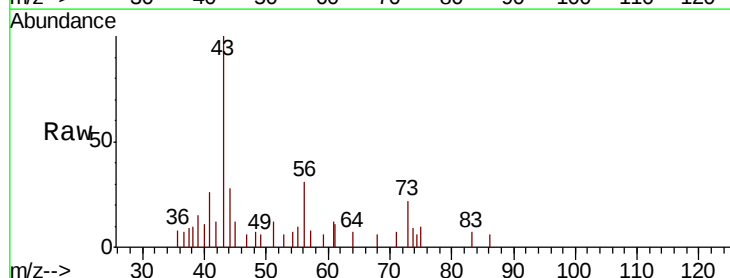
Acq: 05 Aug 2019 19:34

Tgt Ion: 75 Resp: 59

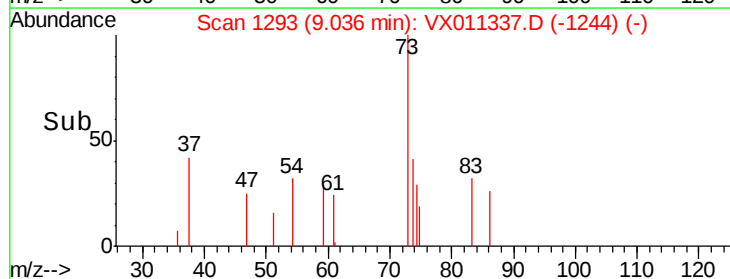
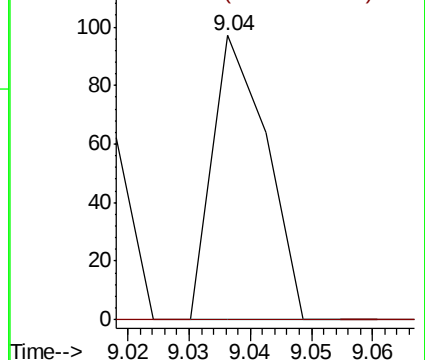
Ion Ratio Lower Upper

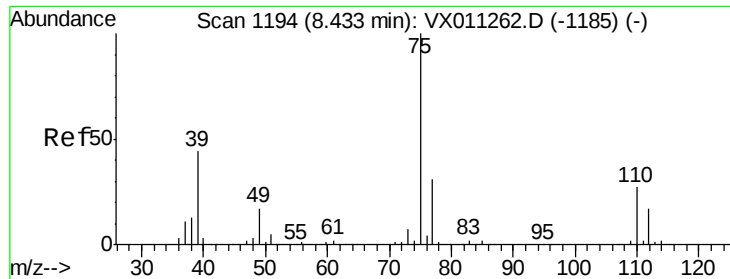
75 100

77 0.0 25.4 38.0#



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

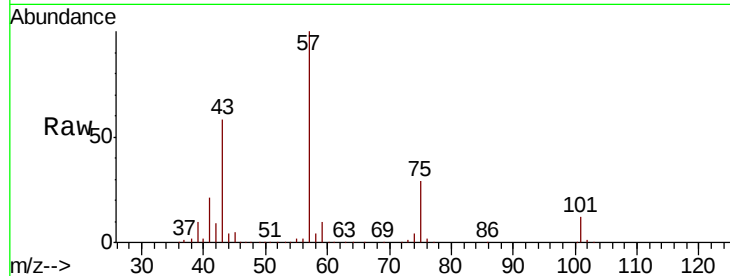




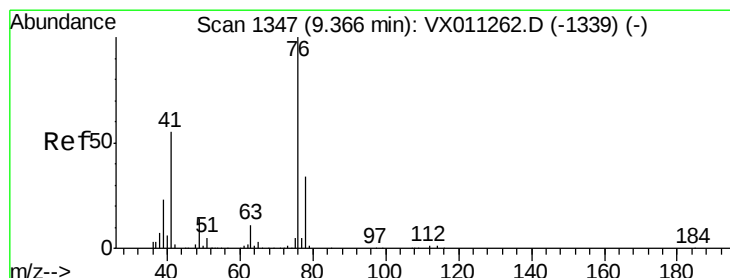
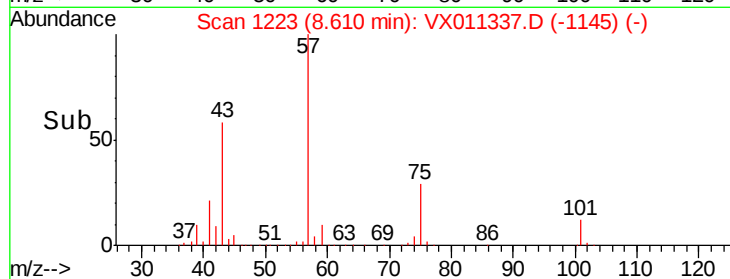
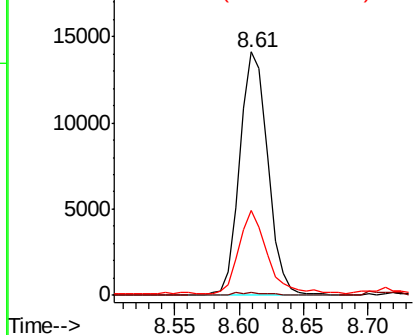
#54
 cis-1,3-Dichloropropene
 Concen: 8.307 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011337.D
 Acq: 05 Aug 2019 19:34

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 21341
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.6#
 39 33.8 35.3 52.9#

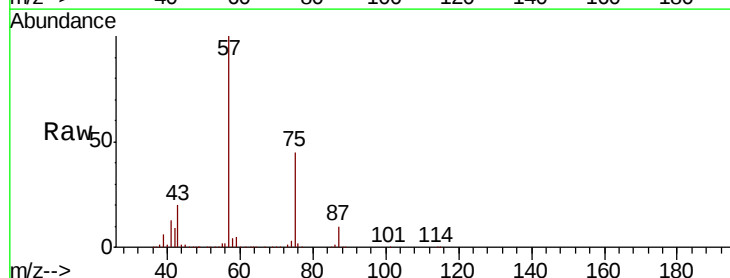


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

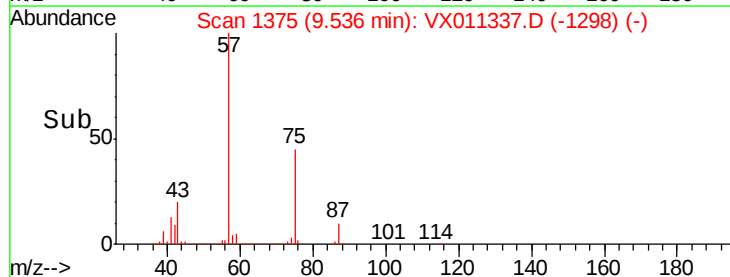
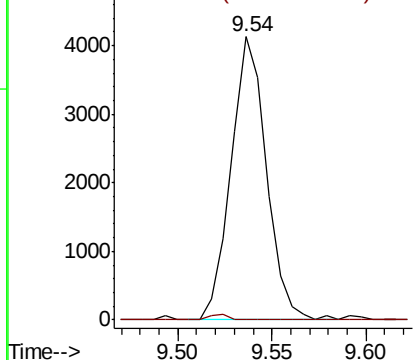


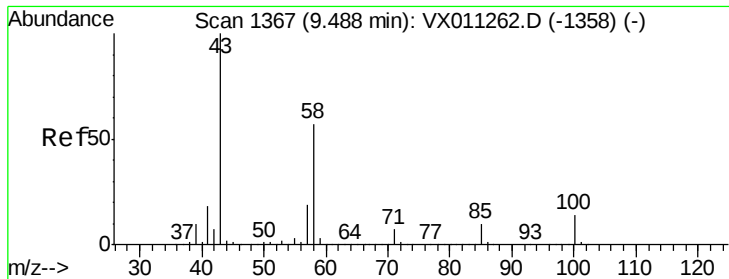
#57
 1,3-Dichloropropane
 Concen: 1.817 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011337.D
 Acq: 05 Aug 2019 19:34

Tgt Ion: 76 Resp: 5366
 Ion Ratio Lower Upper
 76 100
 78 0.9 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

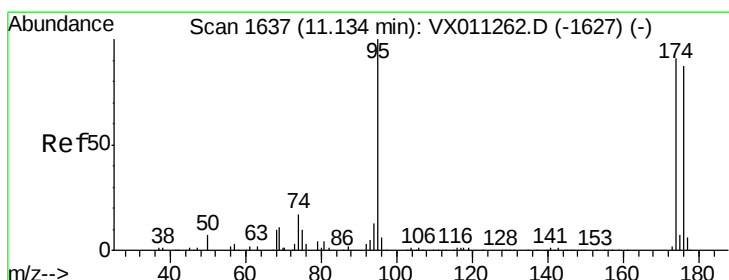
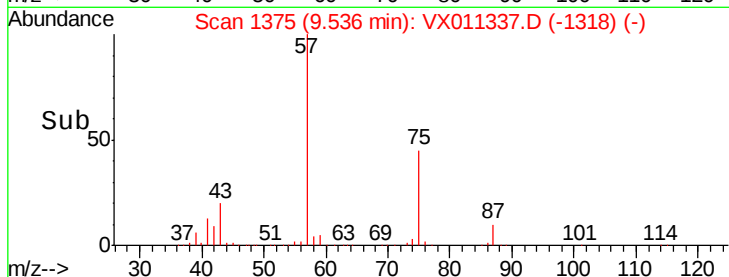
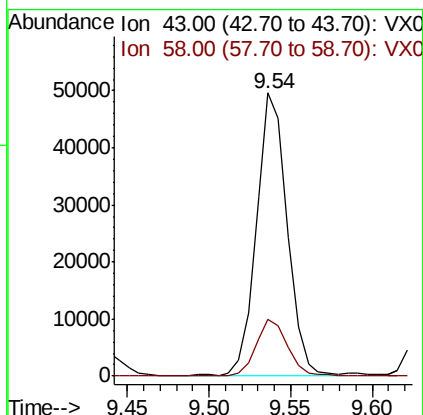
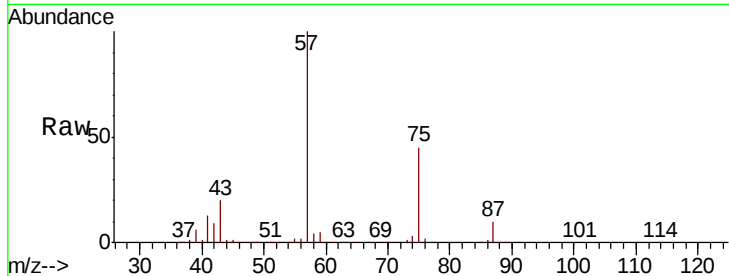




#59
2-Hexanone
Concen: 34.944 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

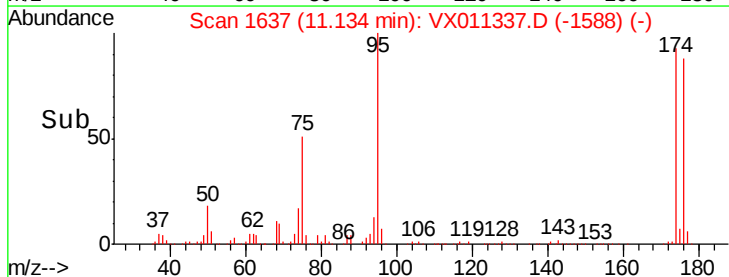
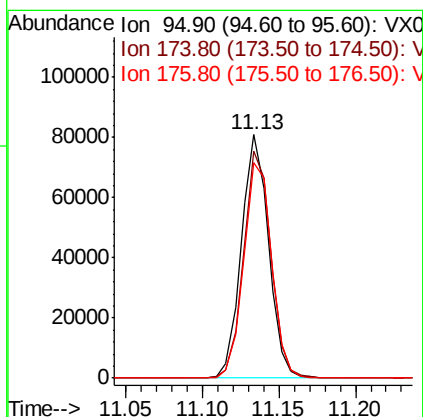
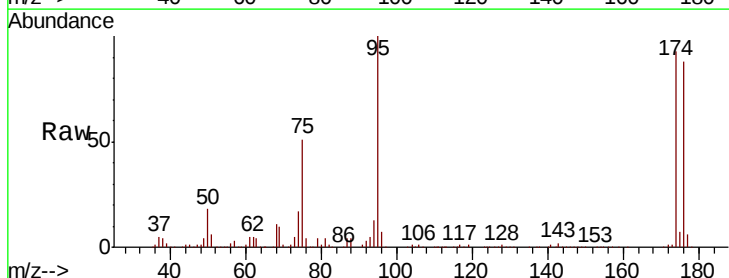
Instrument :
MSVOA_X
ClientSampled :

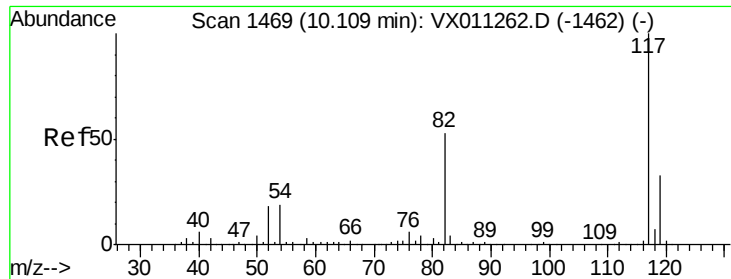
Tot Ion: 43 Resp: 64495
Ion Ratio Lower Upper
43 100
58 20.8 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 42.921 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

Tgt Ion: 95 Resp: 99586
Ion Ratio Lower Upper
95 100
174 94.0 0.0 191.2
176 91.2 0.0 184.8

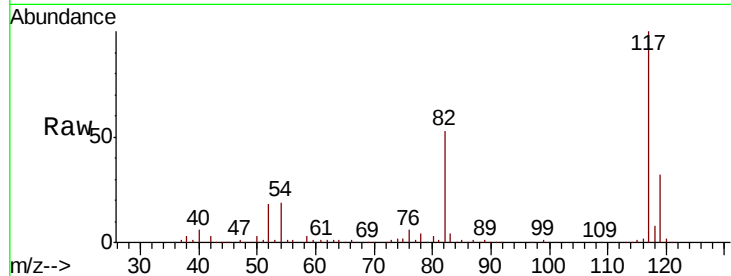




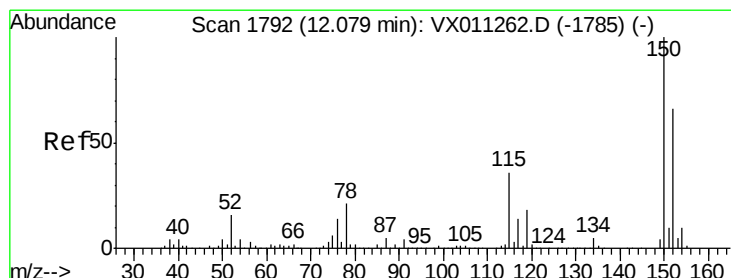
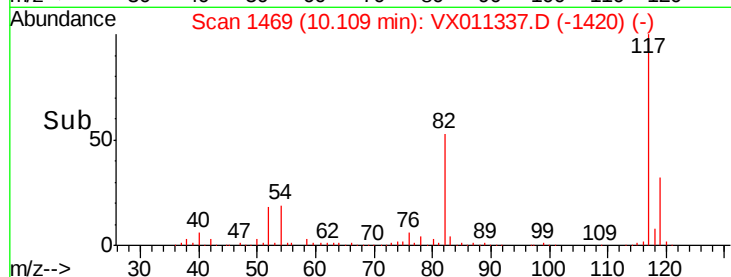
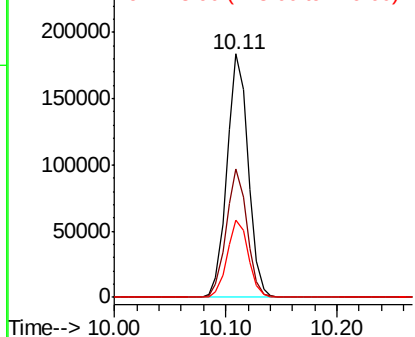
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 241142
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.2
119 31.9 26.6 39.8

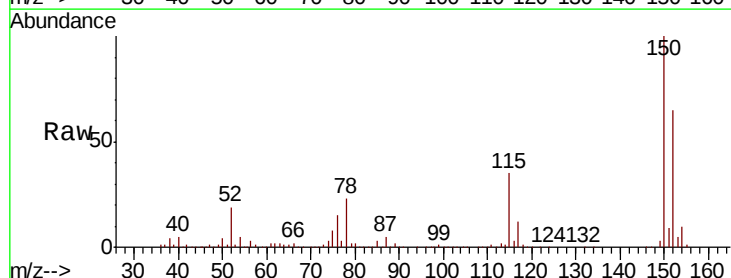


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

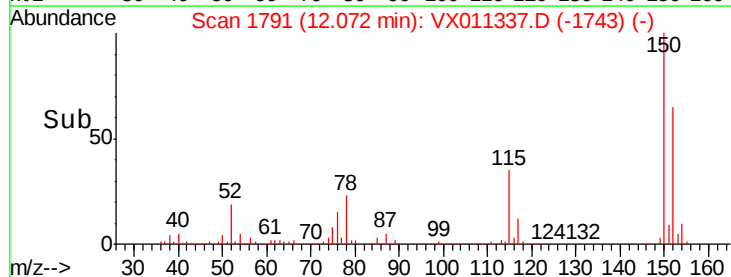
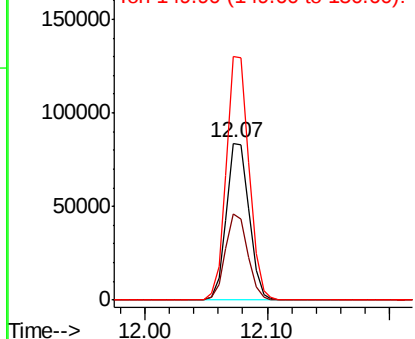


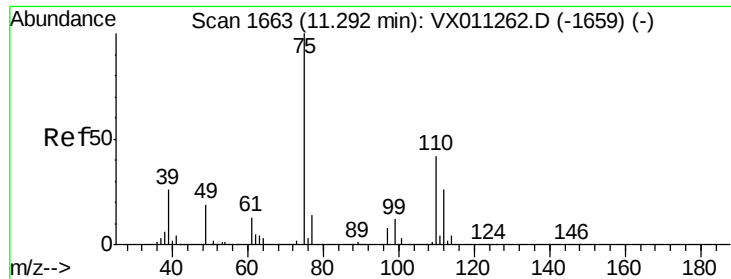
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011337.D
Acq: 05 Aug 2019 19:34

Tgt Ion:152 Resp: 107049
Ion Ratio Lower Upper
152 100
115 54.1 40.0 119.9
150 155.4 0.0 350.4



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: 25.942 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

Instrument :

MSVOA_X

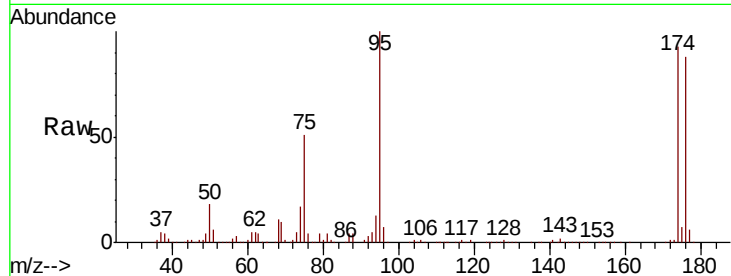
ClientSampled :

Tot Ion: 75 Resp: 50574

Ion Ratio Lower Upper

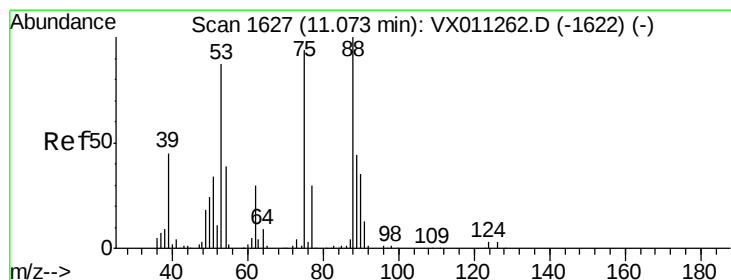
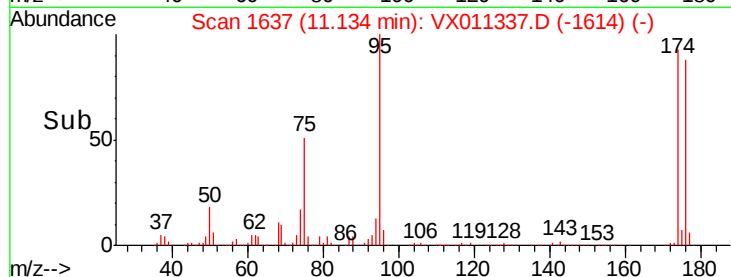
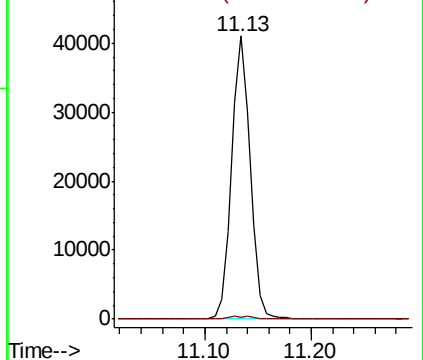
75 100

77 1.3 21.1 63.4#



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: 67.527 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011337.D

Acq: 05 Aug 2019 19:34

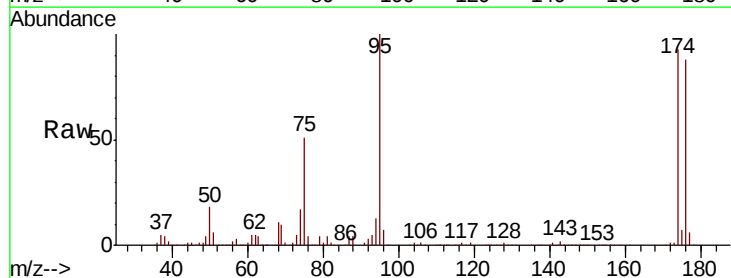
Tgt Ion: 75 Resp: 50574

Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

