

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014197.D
 Acq On : 23 Dec 2019 13:16
 Operator : JC/SP
 Sample : K6117-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-04-121919

Quant Time: Dec 24 01:28:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	583872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	896575	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	807197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	366980	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	321332	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
35) Dibromofluoromethane	5.49	113	265576	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
50) Toluene-d8	8.71	98	1066733	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	371777	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	

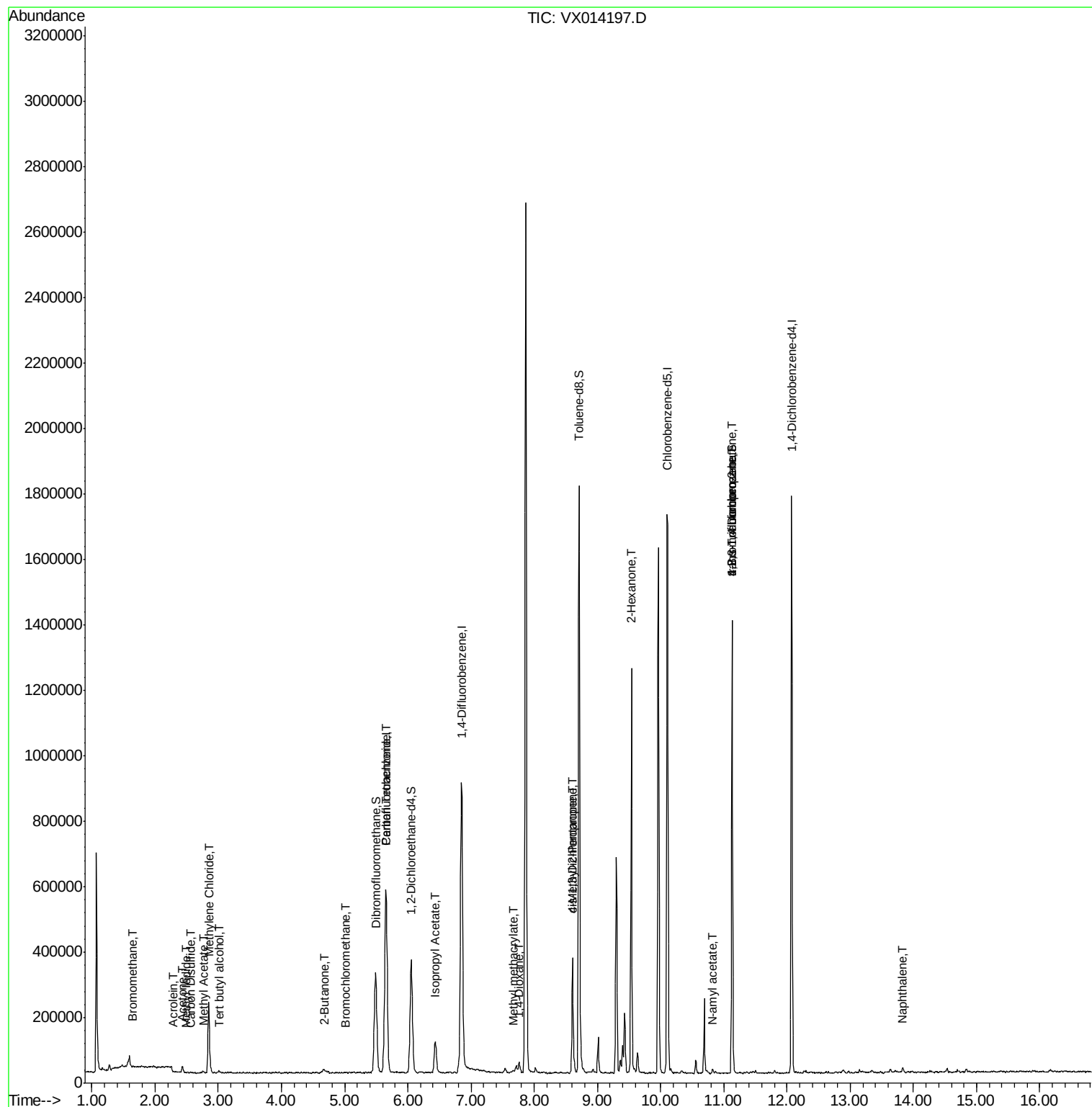
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1260	0.240	ug/l #	56
10) Methyl Iodide	2.48	142	251	2.653	ug/l #	1
11) Tert butyl alcohol	3.02	59	4707	3.292	ug/l #	74
13) Acrolein	2.29	56	852	1.041	ug/l #	14
16) Acetone	2.44	43	21858	5.088	ug/l	98
17) Carbon Disulfide	2.56	76	2020	0.878	ug/l #	75
18) Methyl Acetate	2.76	43	6543	0.769	ug/l #	82
20) Methylene Chloride	2.85	84	98117	14.503	ug/l	98
25) 2-Butanone	4.67	43	8230	1.554	ug/l	91
28) Bromochloromethane	5.01	49	372	0.540	ug/l #	67
38) Carbon Tetrachloride	5.65	117	51746	6.905	ug/l #	16
43) Isopropyl Acetate	6.44	43	132947	8.843	ug/l	100
48) Methyl methacrylate	7.67	41	6875	0.934	ug/l #	16
49) 1,4-Dioxane	7.76	88	621	4.145	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	125080	13.247	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	57675	5.844	ug/l #	53
59) 2-Hexanone	9.54	43	147165	19.362	ug/l #	50
74) N-amyl acetate	10.82	43	6002	0.496	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	179946	22.586	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	179946	63.750	ug/l #	12
95) Naphthalene	13.83	128	10014	0.418	ug/l #	85

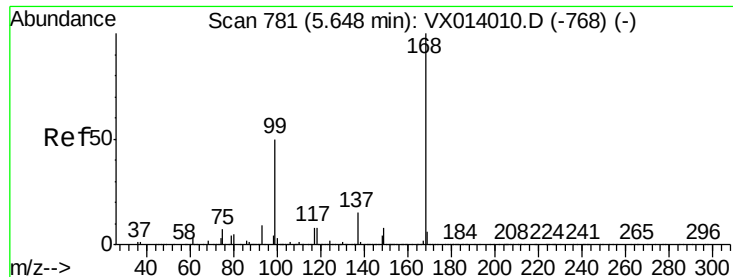
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 17 03:01:07 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

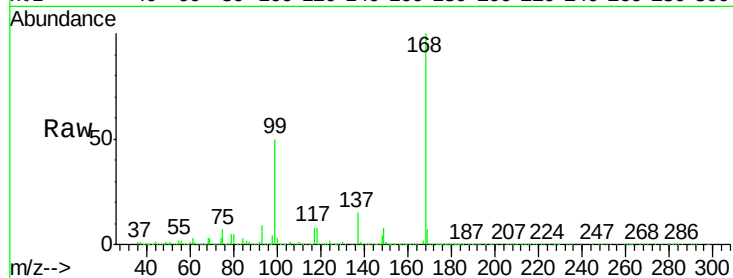
TR-04-121919

Tgt Ion:168 Resp: 583872

Ion Ratio Lower Upper

168 100

99 49.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

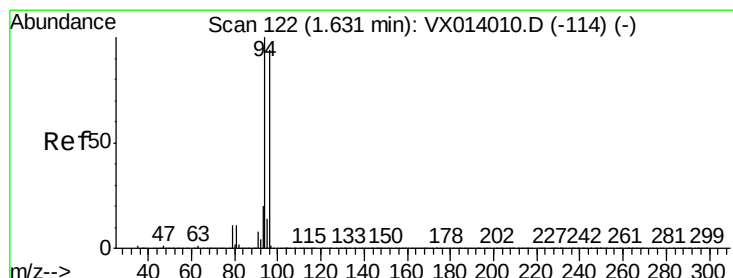
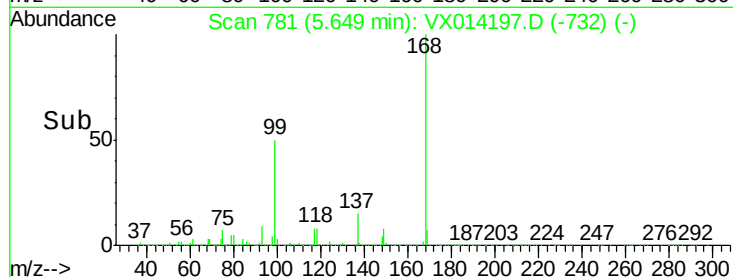
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014197.D

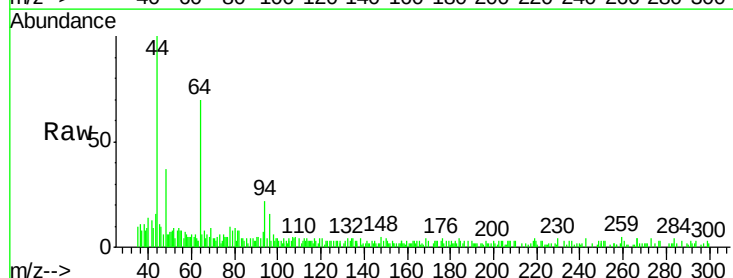
Acq: 23 Dec 2019 13:16

Tgt Ion: 94 Resp: 1260

Ion Ratio Lower Upper

94 100

96 51.3 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

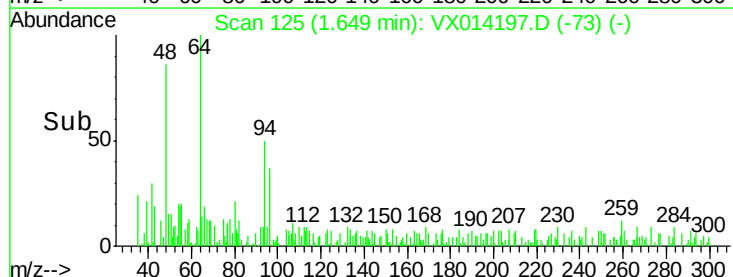
600

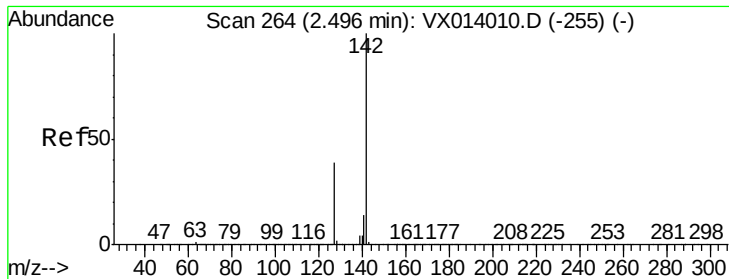
400

200

0

Time-->





#10

Methyl Iodide

Concen: 2.653 ug/l

RT: 2.48 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

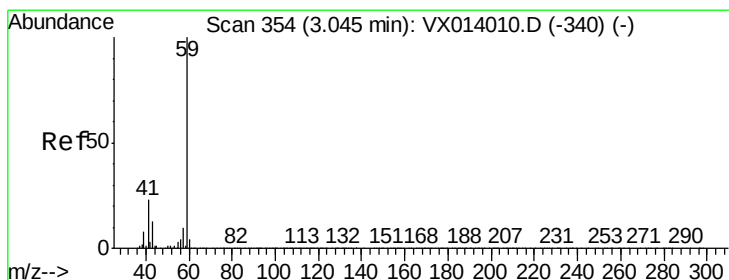
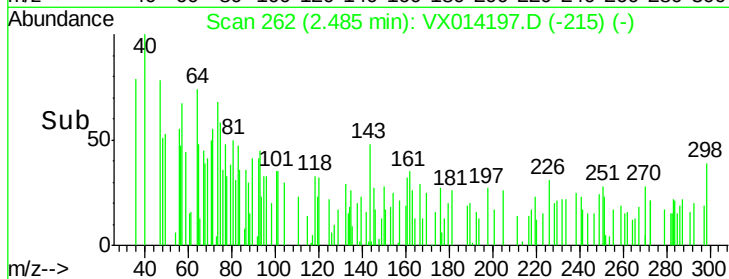
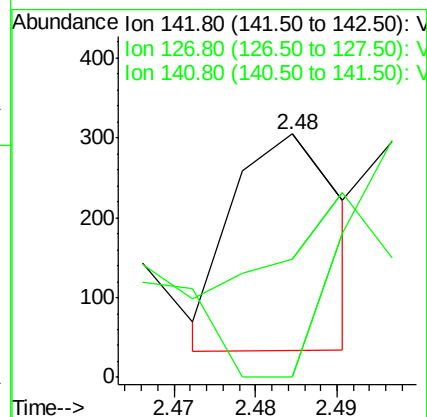
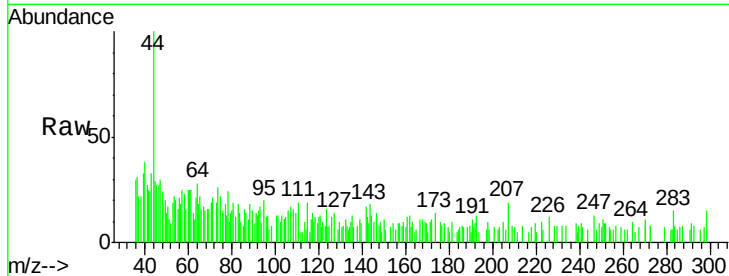
Instrument :

MSVOA_X

ClientSampleId :

TR-04-121919

Tgt Ion:	142	Resp:	251
Ion	Ratio	Lower	Upper
142	100		
127	0.0	31.6	47.4#
141	94.4	11.6	17.4#



#11

Tert butyl alcohol

Concen: 3.292 ug/l

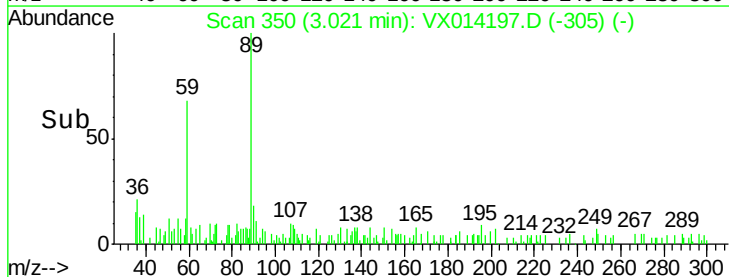
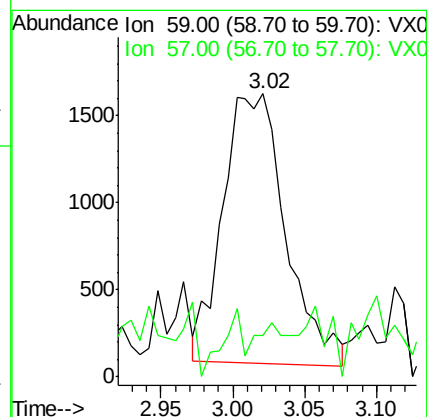
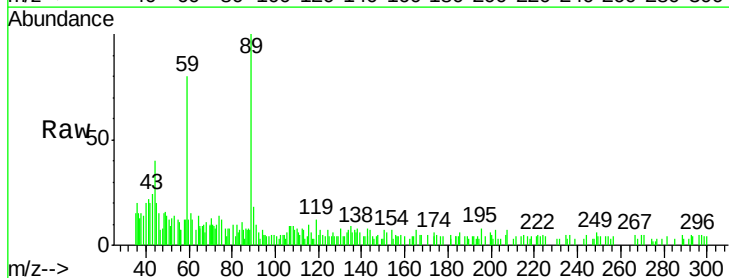
RT: 3.02 min Scan# 350

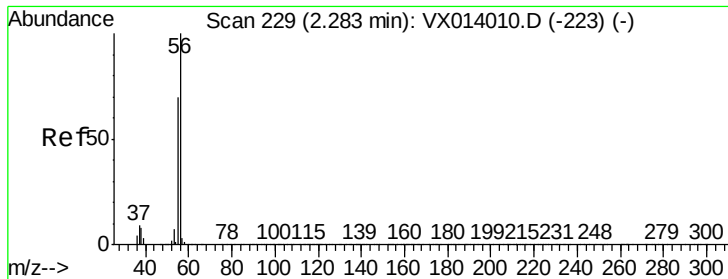
Delta R.T. -0.02 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Tgt Ion:	59	Resp:	4707
Ion	Ratio	Lower	Upper
59	100		
57	0.6	8.4	12.6#





#13

Acrolein

Concen: 1.041 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampled :

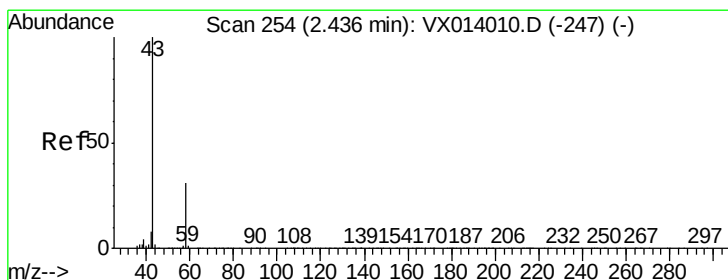
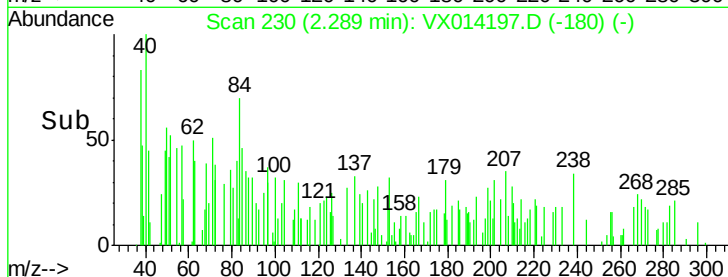
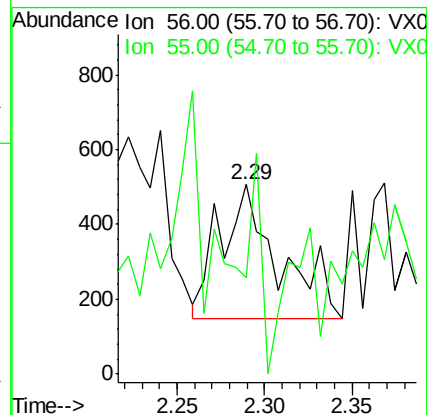
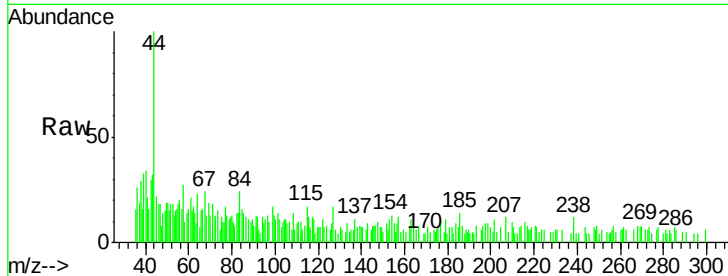
TR-04-121919

Tgt Ion: 56 Resp: 852

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 5.088 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014197.D

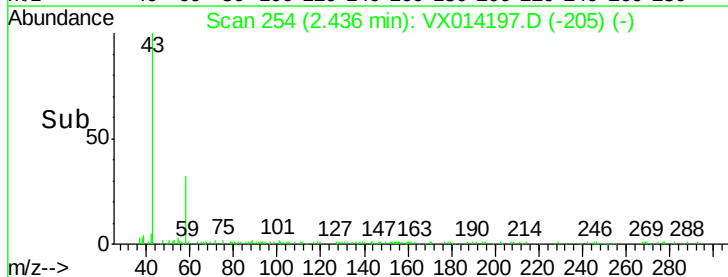
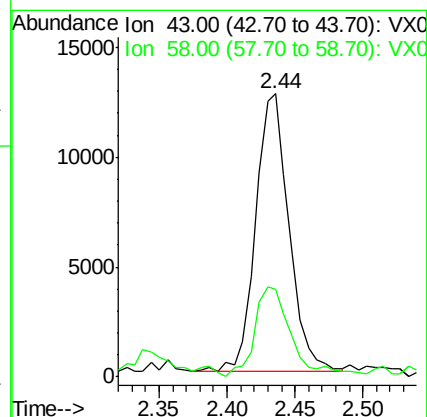
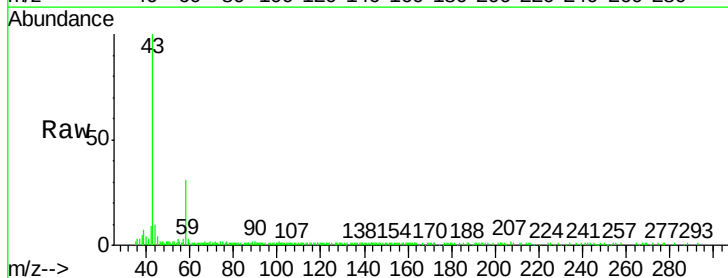
Acq: 23 Dec 2019 13:16

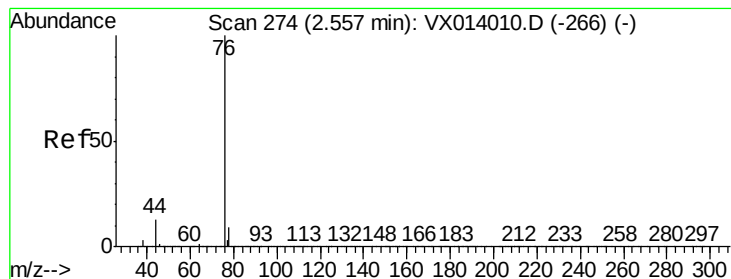
Tgt Ion: 43 Resp: 21858

Ion Ratio Lower Upper

43 100

58 29.8 24.9 37.3





#17

Carbon Disulfide

Concen: 0.878 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampled :

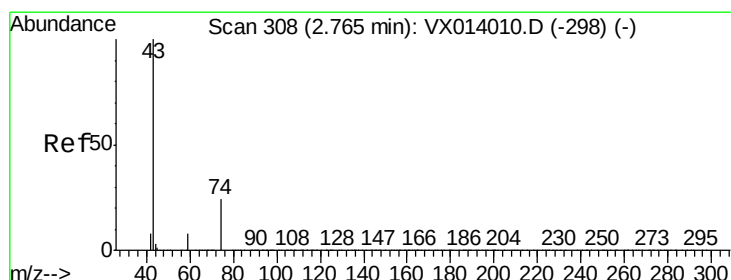
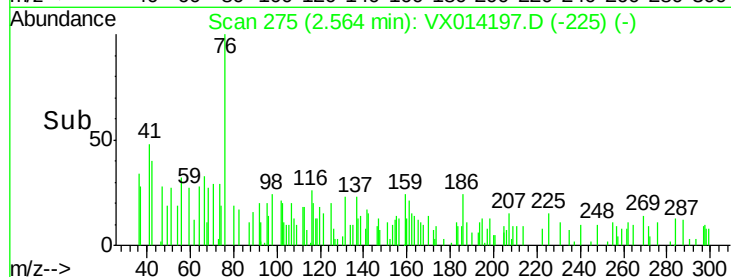
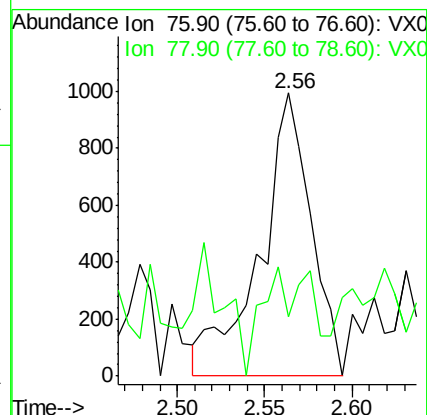
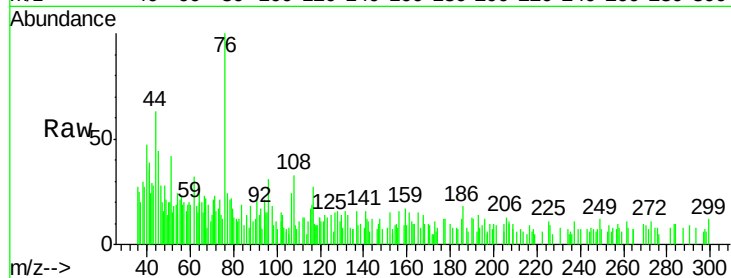
TR-04-121919

Tgt Ion: 76 Resp: 2020

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.769 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX014197.D

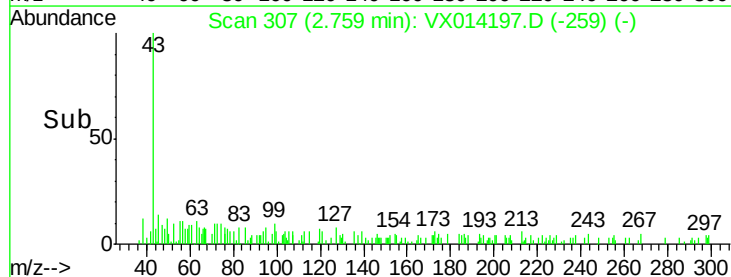
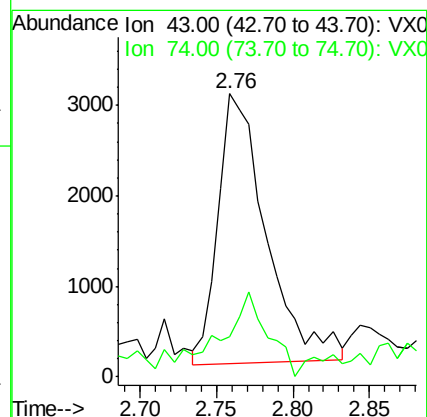
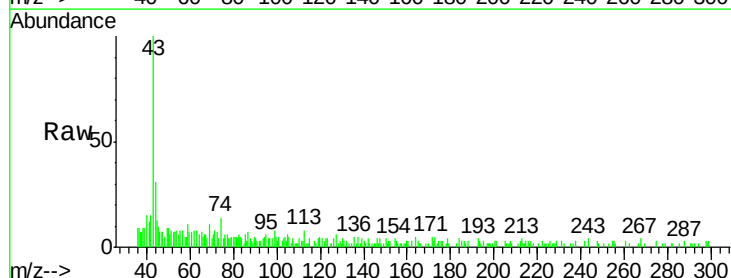
Acq: 23 Dec 2019 13:16

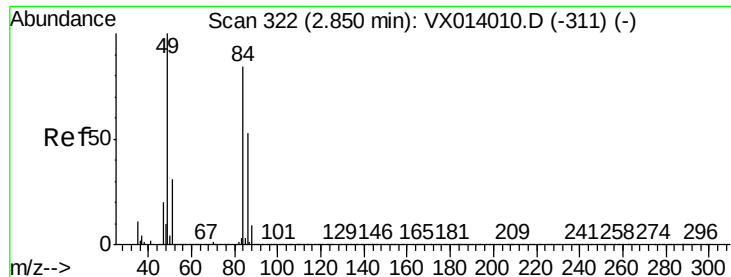
Tgt Ion: 43 Resp: 6543

Ion Ratio Lower Upper

43 100

74 33.5 19.5 29.3#

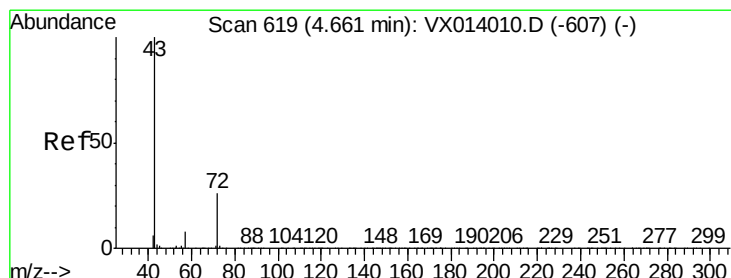
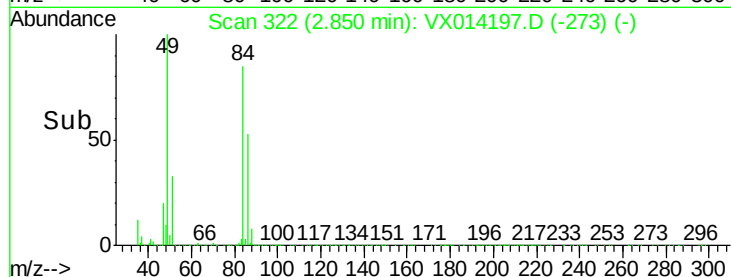
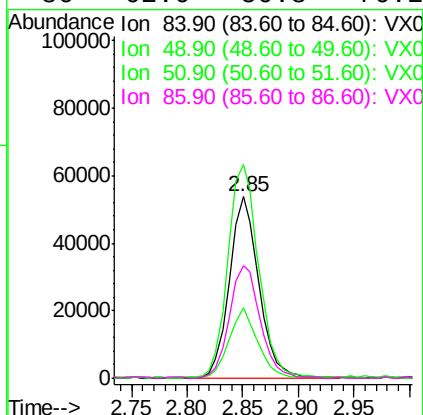
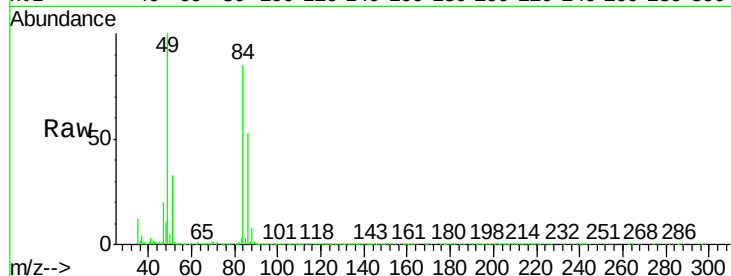




#20
Methylene Chloride
Concen: 14.503 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

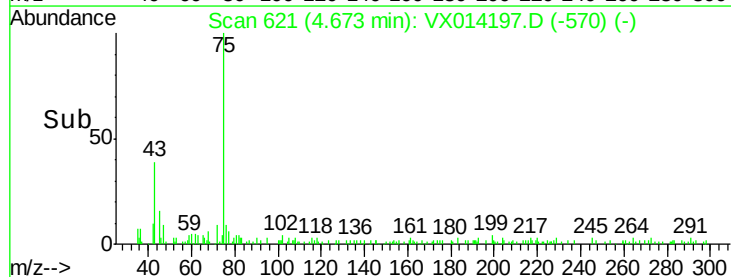
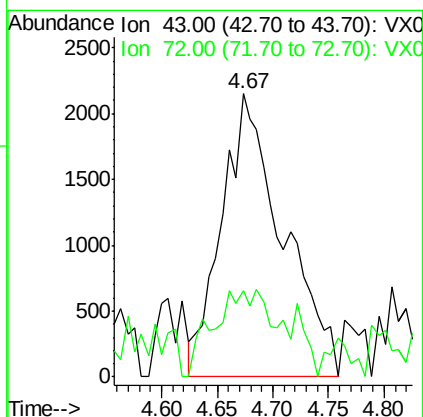
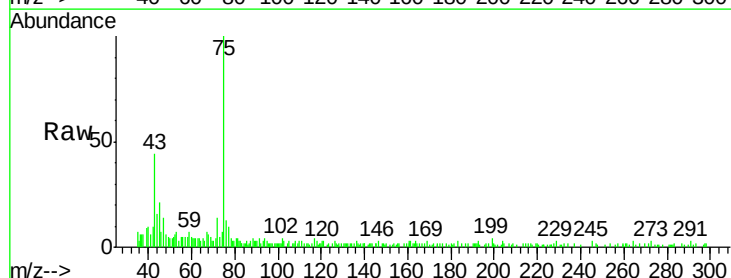
Instrument :
MSVOA_X
ClientSampleId :
TR-04-121919

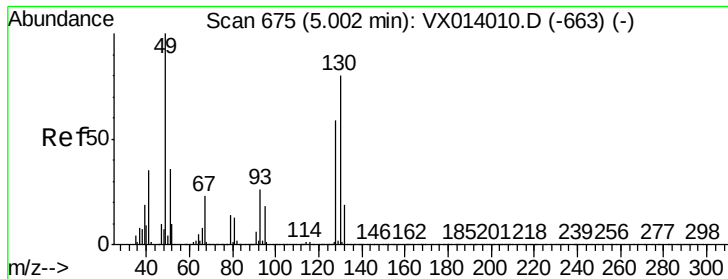
Tgt Ion:	84	Resp:	98117
Ion	Ratio	Lower	Upper
84	100		
49	117.5	95.8	143.6
51	38.7	29.8	44.8
86	62.0	50.8	76.2



#25
2-Butanone
Concen: 1.554 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

Tgt Ion:	43	Resp:	8230
Ion	Ratio	Lower	Upper
43	100		
72	30.6	21.0	31.4





#28

Bromochloromethane

Concen: 0.540 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampled :

TR-04-121919

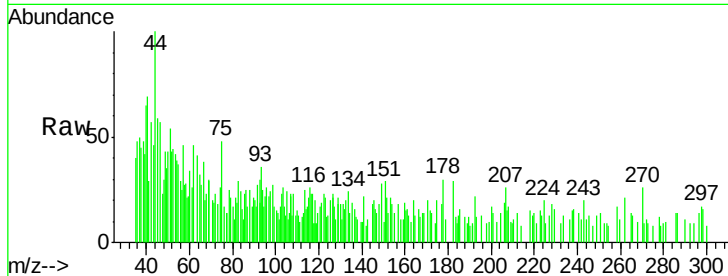
Tgt Ion: 49 Resp: 372

Ion Ratio Lower Upper

49 100

129 179.8 0.0 5.0#

130 64.8 64.6 97.0

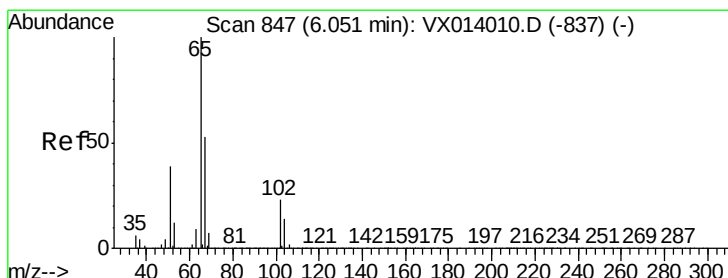
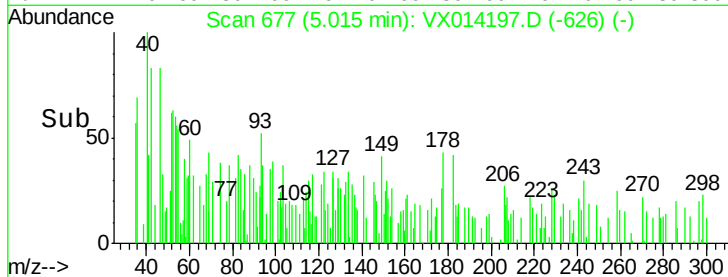
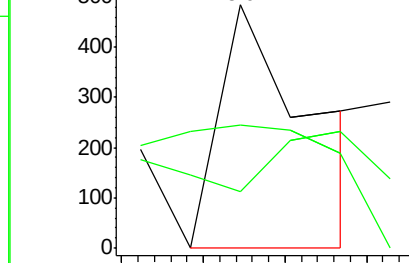


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01



#33

1,2-Dichloroethane-d4

Concen: 48.559 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014197.D

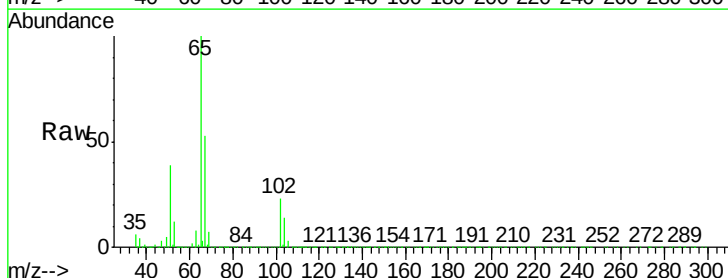
Acq: 23 Dec 2019 13:16

Tgt Ion: 65 Resp: 321332

Ion Ratio Lower Upper

65 100

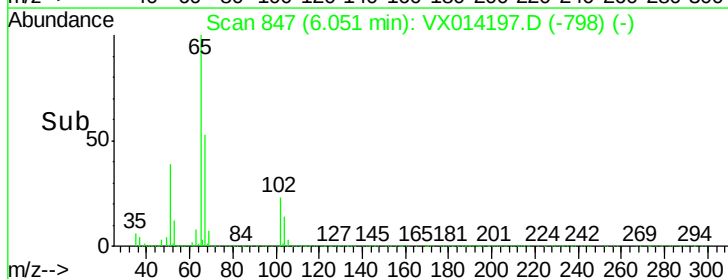
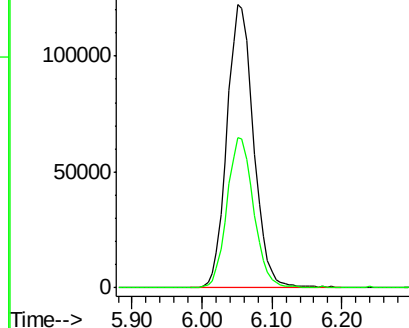
67 53.1 0.0 106.4

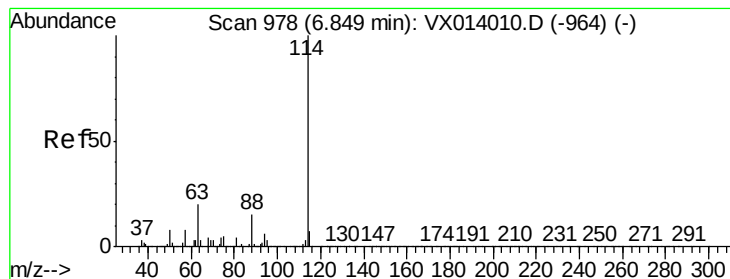


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

TR-04-121919

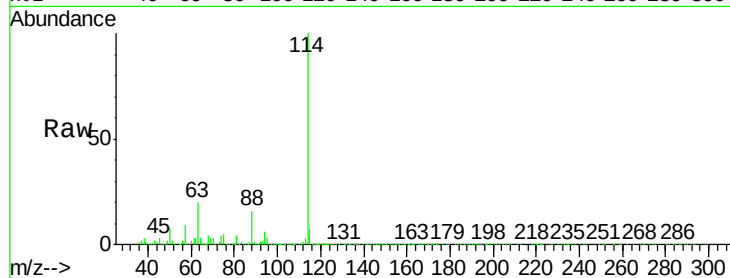
Tgt Ion:114 Resp: 896575

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.8

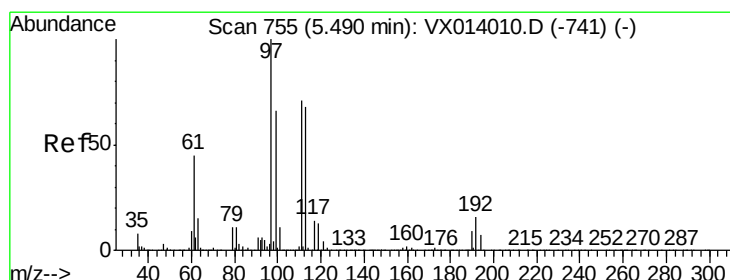
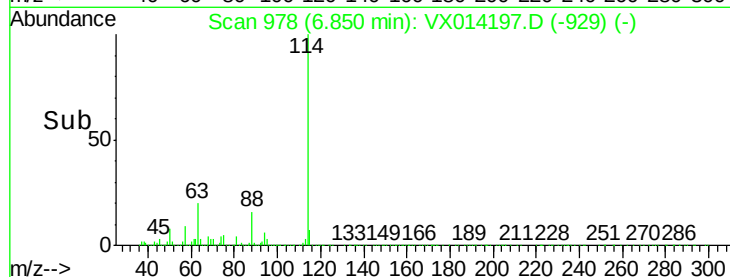
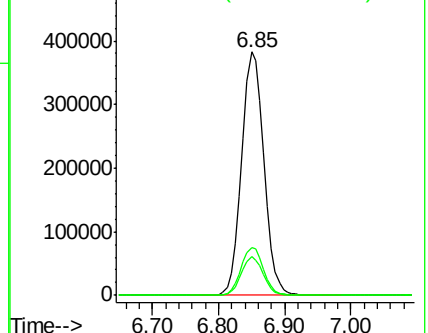
88 15.8 0.0 30.4



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: 48.728 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

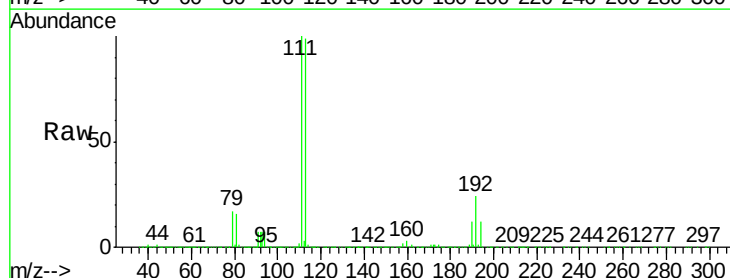
Tgt Ion:113 Resp: 265576

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

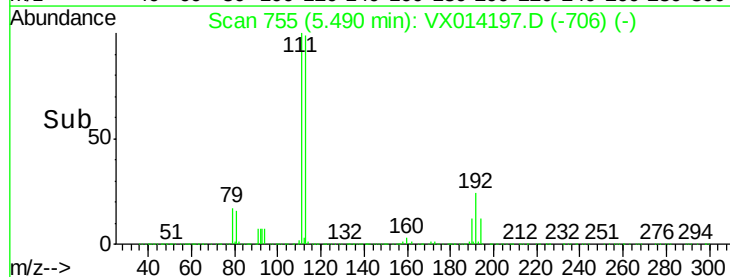
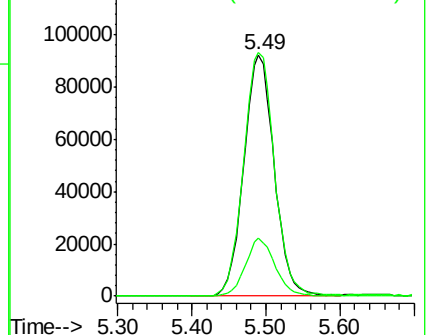
192 23.4 19.3 28.9

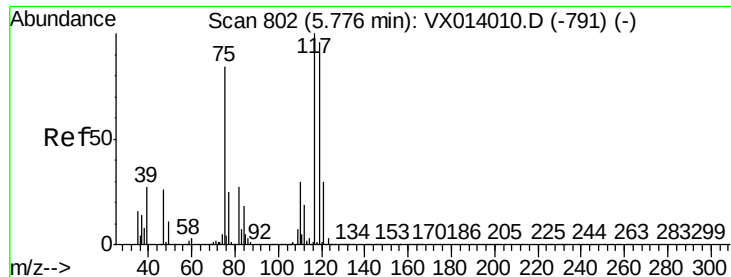


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

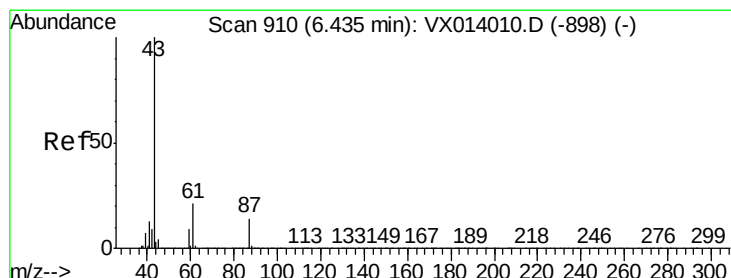
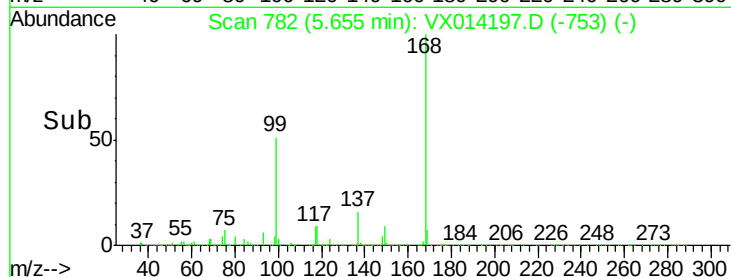
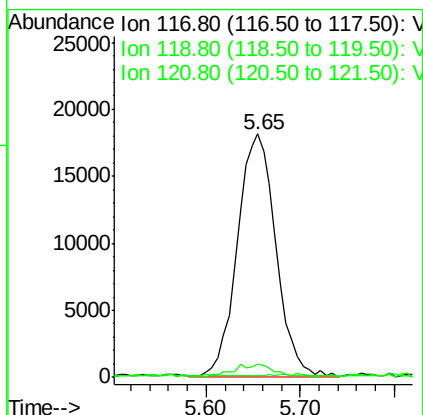
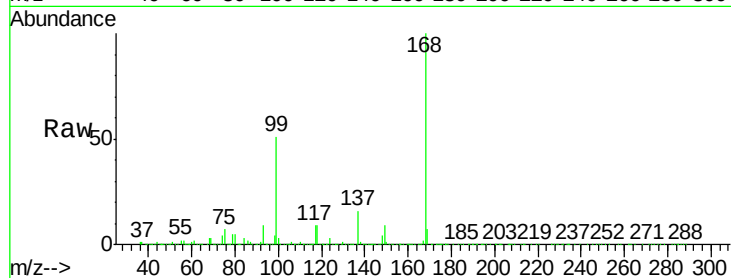




#38
Carbon Tetrachloride
Concen: 6.905 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

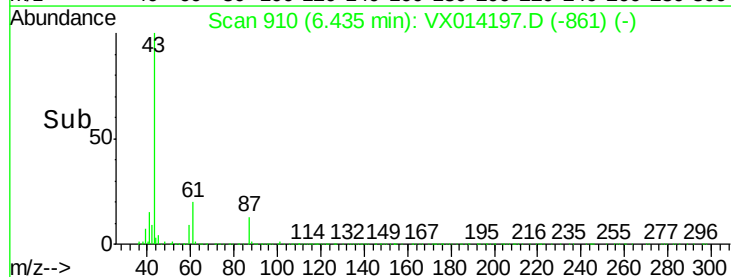
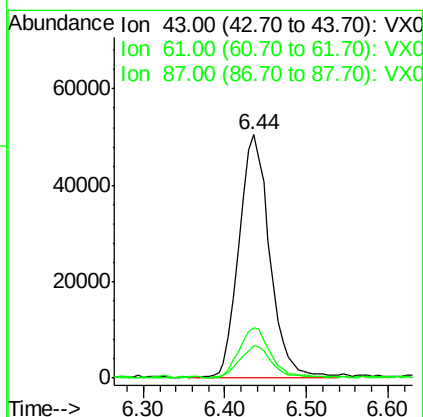
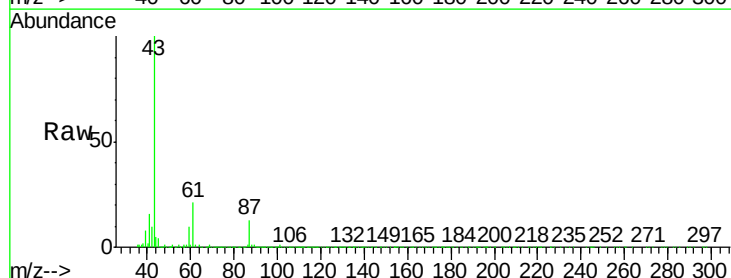
Instrument :
MSVOA_X
ClientSampleId :
TR-04-121919

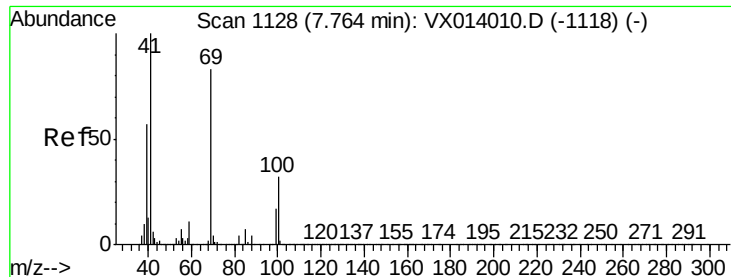
Tgt Ion:117 Resp: 51746
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.4#
121 0.3 23.6 35.4#



#43
Isopropyl Acetate
Concen: 8.843 ug/l
RT: 6.44 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

Tgt Ion: 43 Resp: 132947
Ion Ratio Lower Upper
43 100
61 20.4 16.4 24.6
87 13.6 10.7 16.1

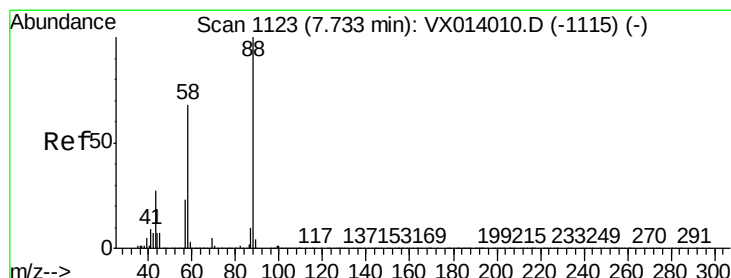
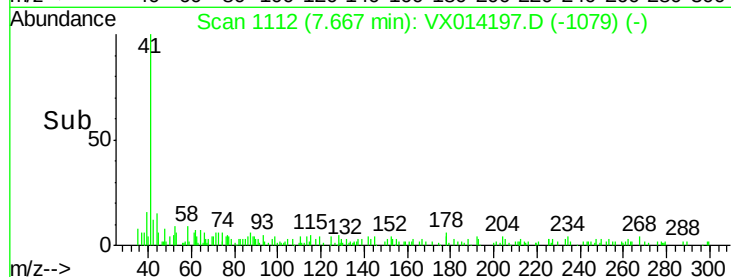
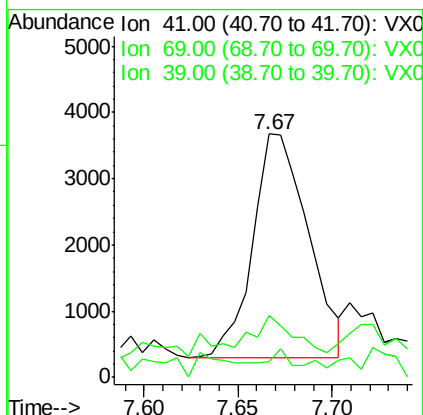
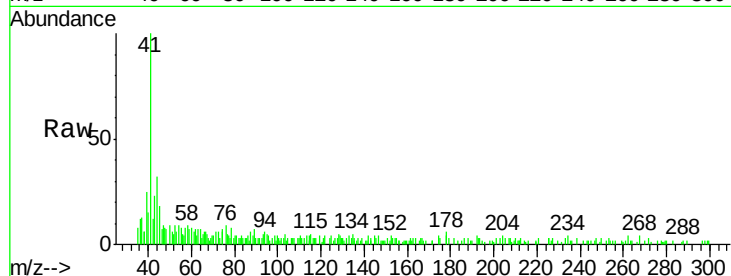




#48
Methyl methacrylate
Concen: 0.934 ug/l
RT: 7.67 min Scan# 1112
Delta R.T. -0.10 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

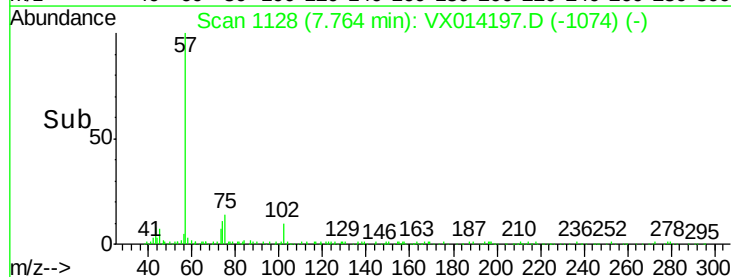
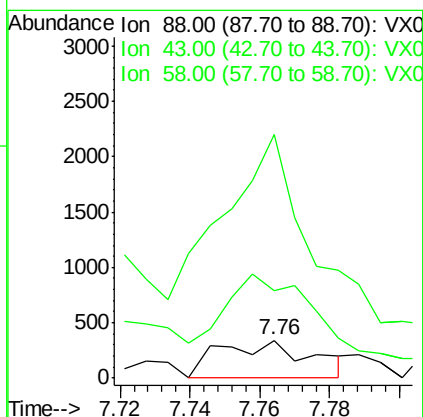
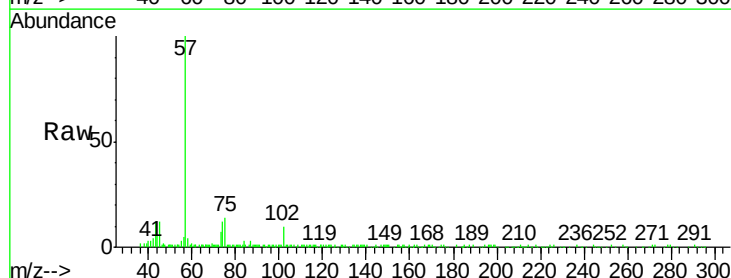
Instrument :
MSVOA_X
ClientSampleId :
TR-04-121919

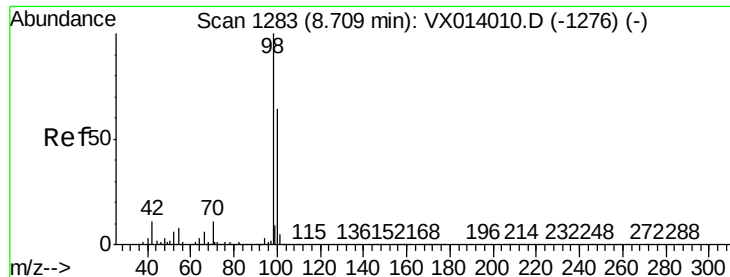
Tgt Ion: 41 Resp: 6875
Ion Ratio Lower Upper
41 100
69 2.7 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 4.145 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.03 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

Tgt Ion: 88 Resp: 621
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 334.1 56.8 85.2#





#50

Toluene-d8

Concen: 50.273 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

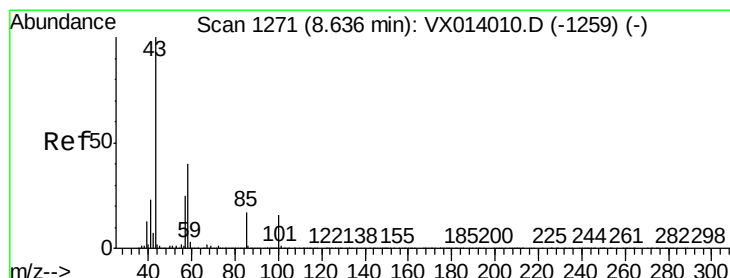
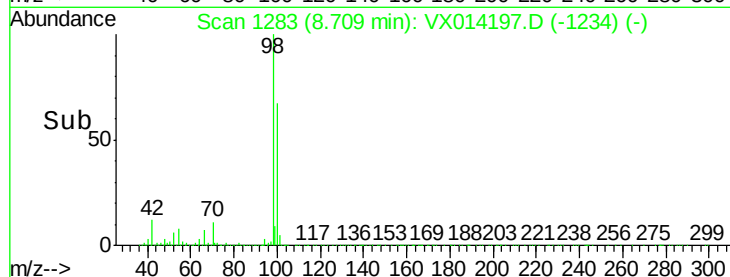
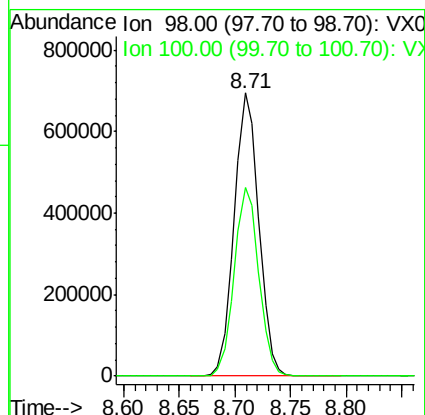
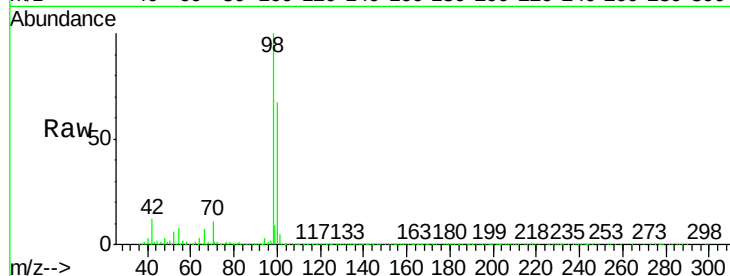
TR-04-121919

Tgt Ion: 98 Resp: 1066733

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 13.247 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014197.D

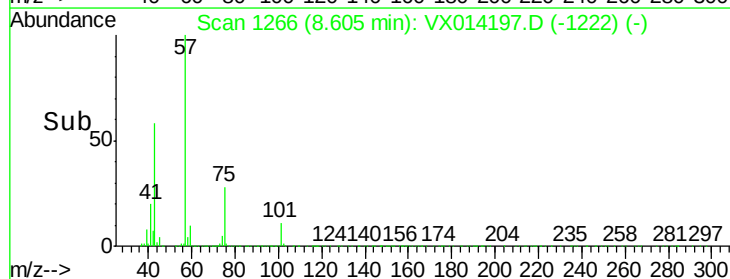
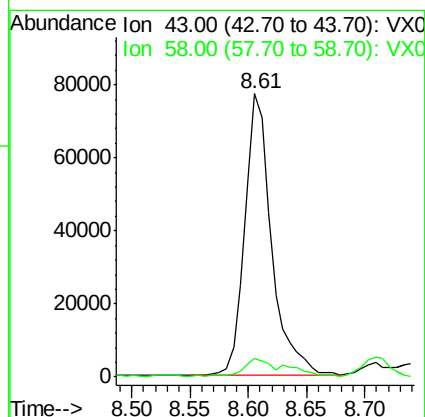
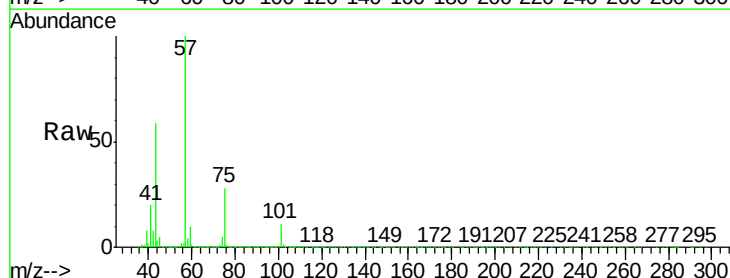
Acq: 23 Dec 2019 13:16

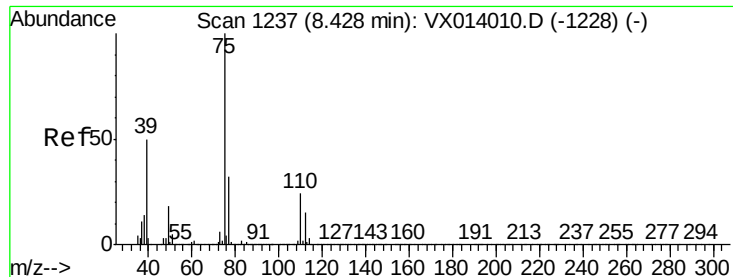
Tgt Ion: 43 Resp: 125080

Ion Ratio Lower Upper

43 100

58 6.2 32.2 48.2#



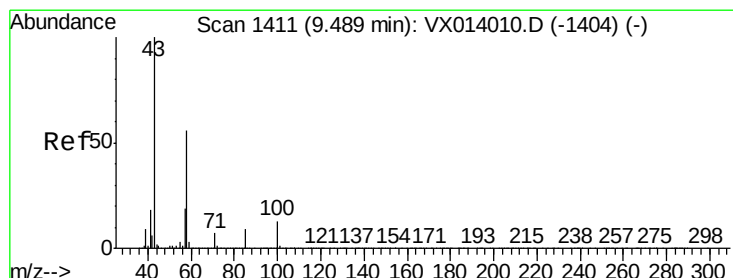
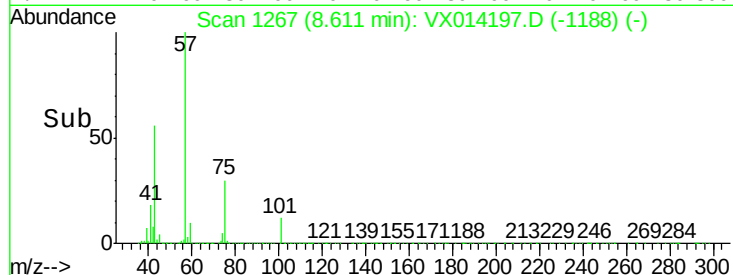
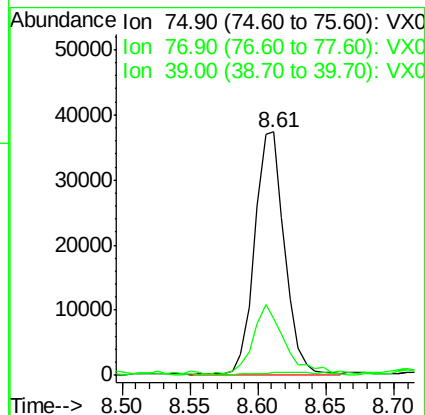
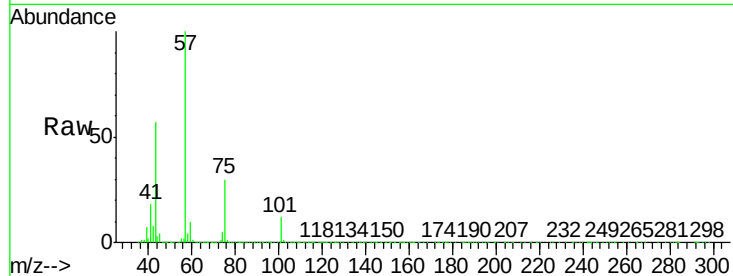


#54

cis-1,3-Dichloropropene
 Concen: 5.844 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014197.D
 Acq: 23 Dec 2019 13:16

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-04-121919

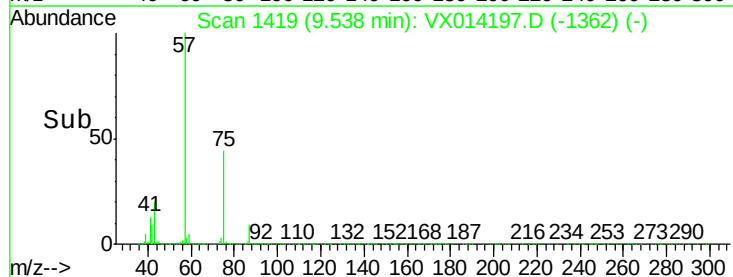
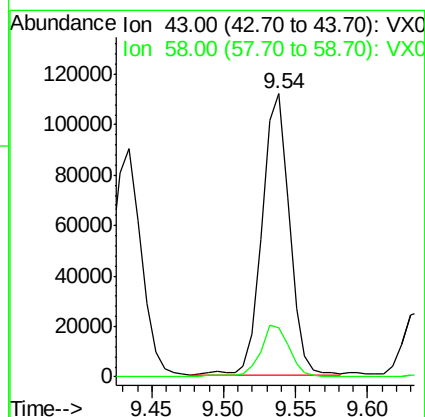
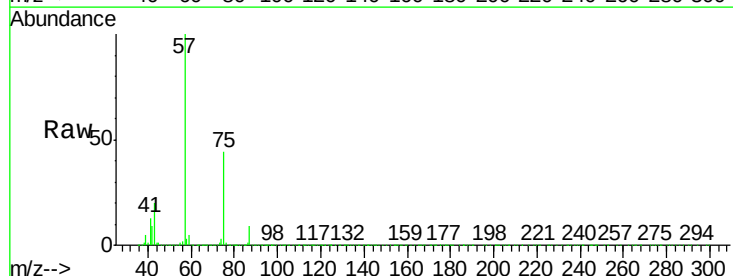
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.8	25.3	37.9#
39	21.8	39.9	59.9#

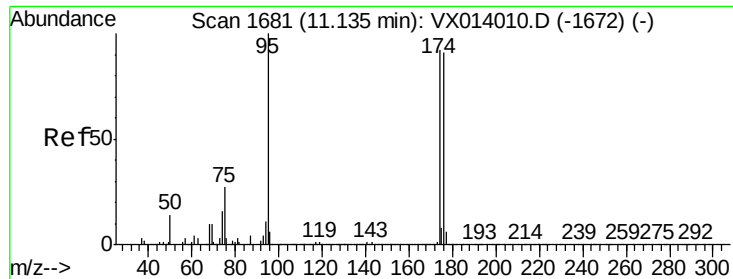


#59

2-Hexanone
 Concen: 19.362 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX014197.D
 Acq: 23 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.3	28.0	84.0#

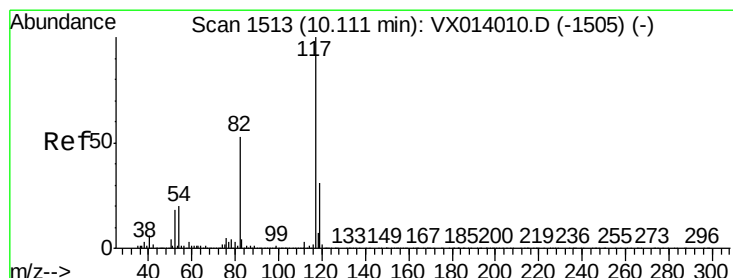
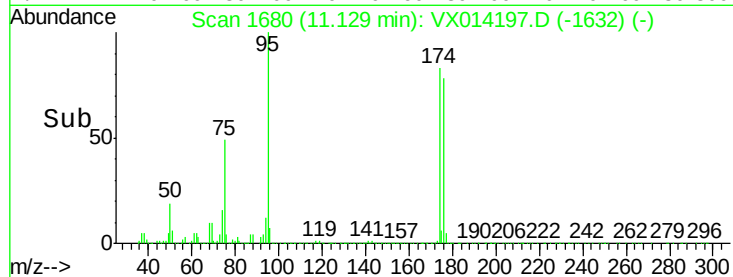
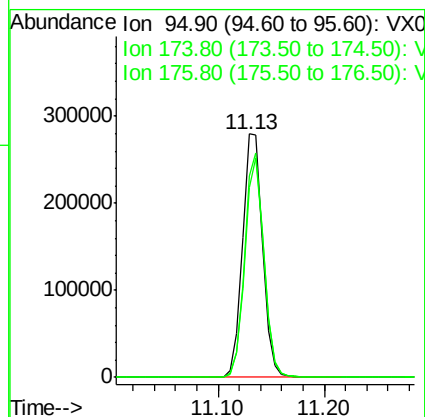
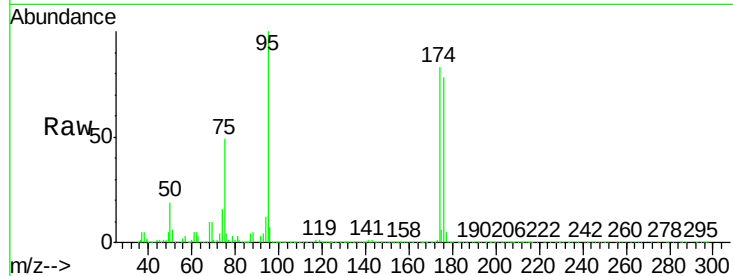




#62
4-Bromofluorobenzene
Concen: 47.931 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

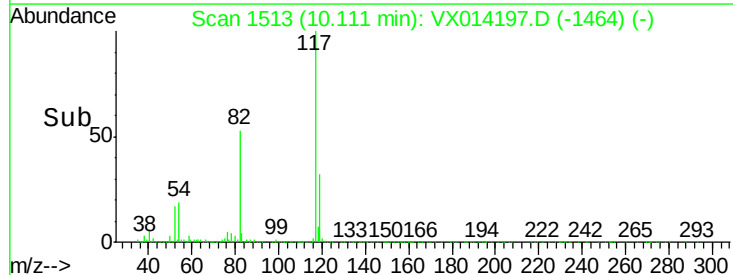
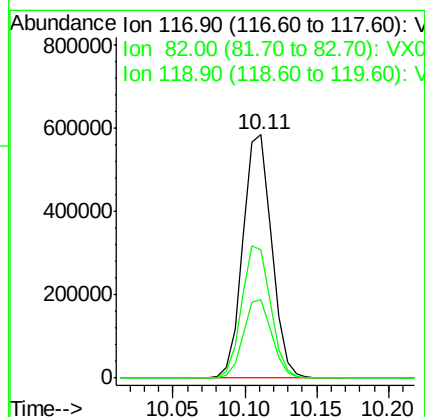
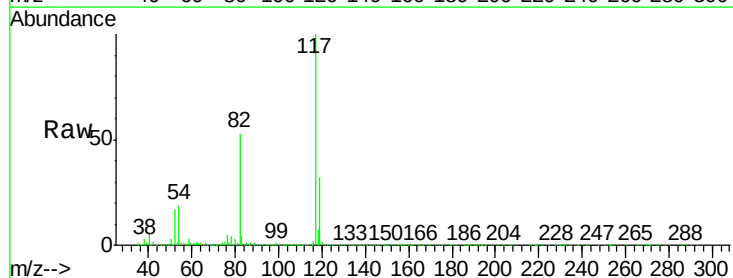
Instrument :
MSVOA_X
ClientSampleId :
TR-04-121919

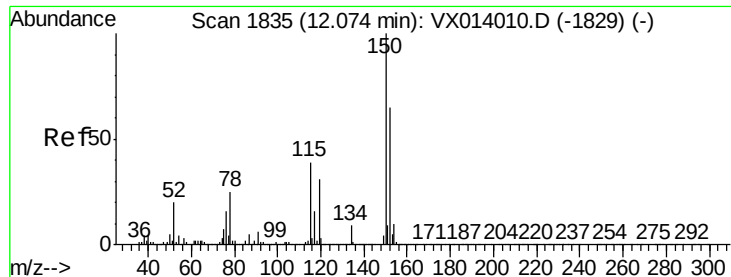
Tgt Ion: 95 Resp: 371777
Ion Ratio Lower Upper
95 100
174 88.2 0.0 175.8
176 85.4 0.0 173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

Tgt Ion: 117 Resp: 807197
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.4
119 32.4 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

TR-04-121919

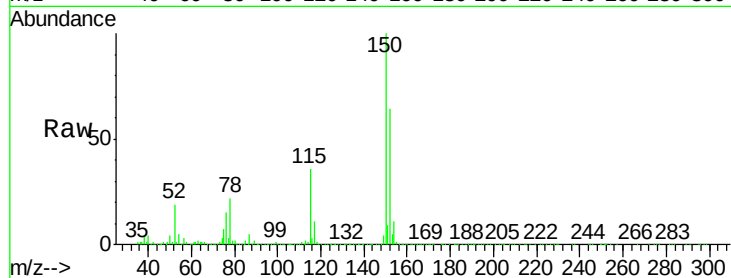
Tgt Ion: 152 Resp: 366980

Ion Ratio Lower Upper

152 100

115 56.0 38.3 114.9

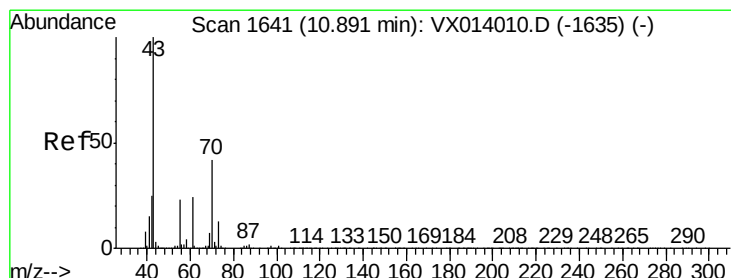
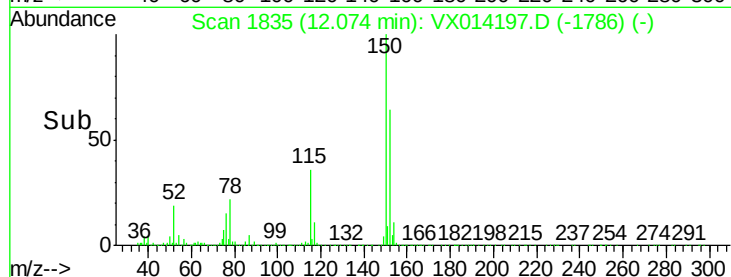
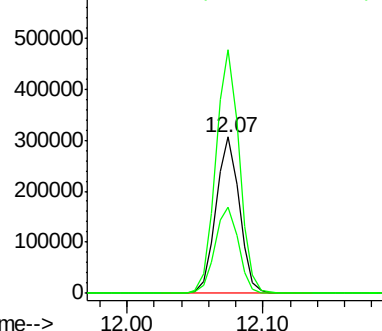
150 156.2 0.0 345.4



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-ethyl acetate

Concen: 0.496 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Tgt Ion: 43 Resp: 6002

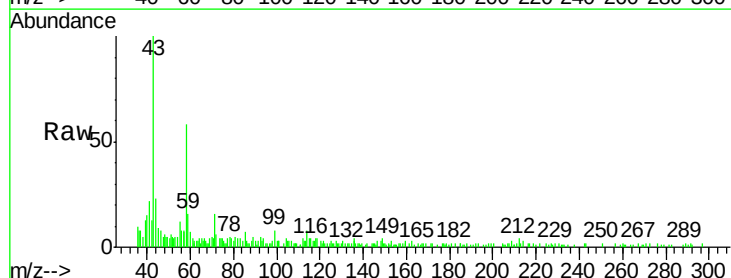
Ion Ratio Lower Upper

43 100

70 5.1 34.4 51.6#

55 9.2 19.1 28.7#

61 0.0 19.7 29.5#

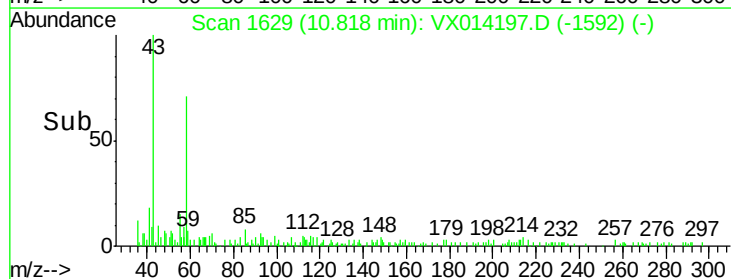
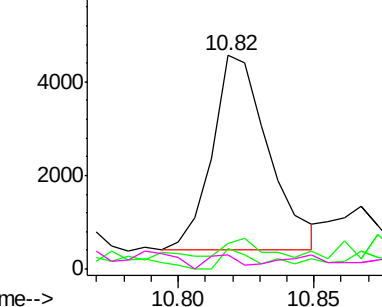


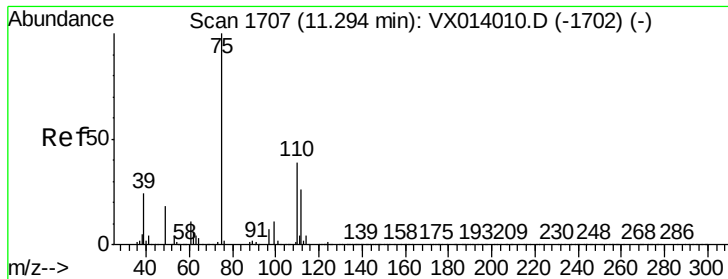
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.586 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

Instrument :

MSVOA_X

ClientSampleId :

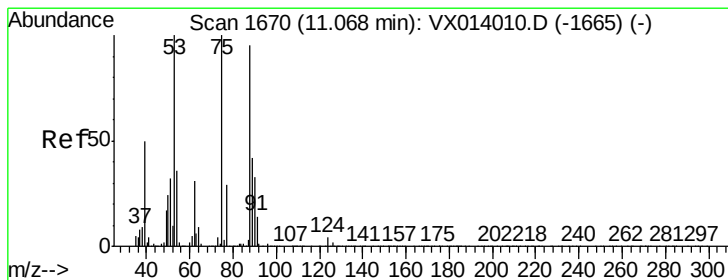
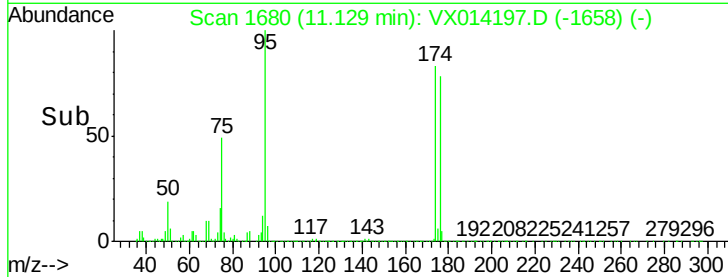
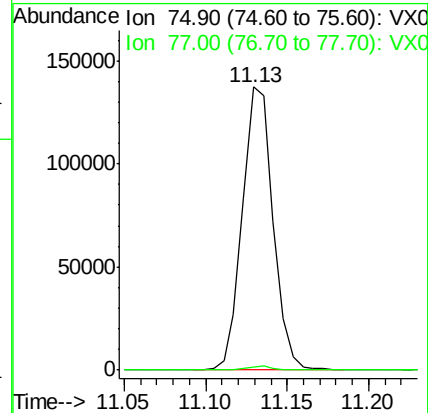
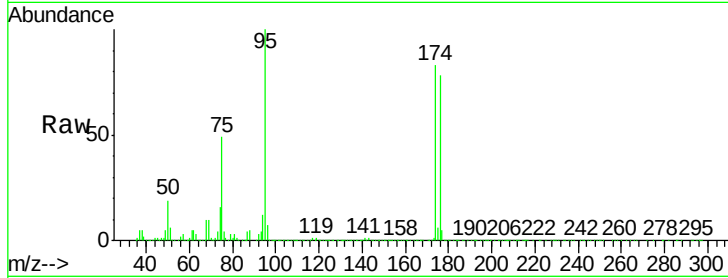
TR-04-121919

Tgt Ion: 75 Resp: 179946

Ion Ratio Lower Upper

75 100

77 1.5 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.750 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014197.D

Acq: 23 Dec 2019 13:16

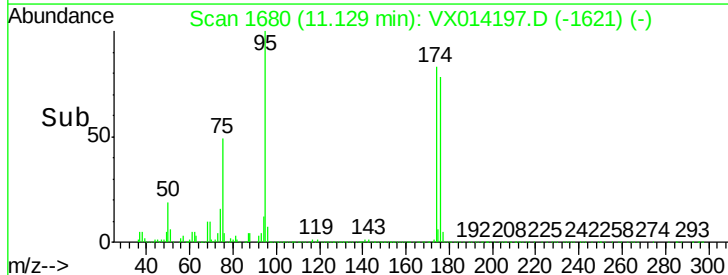
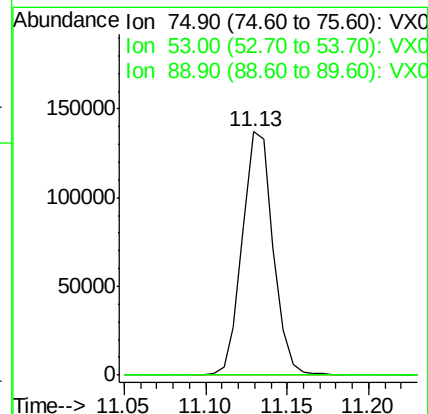
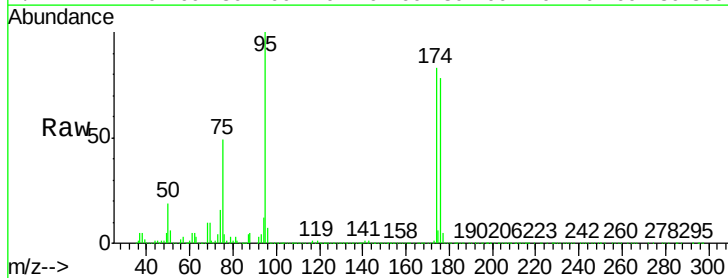
Tgt Ion: 75 Resp: 179946

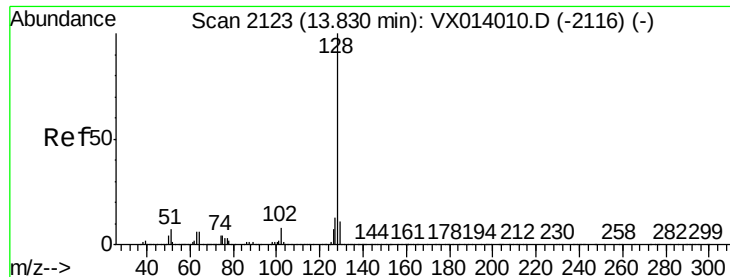
Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.1 34.6 51.8#





#95
Naphthalene
Concen: 0.418 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014197.D
Acq: 23 Dec 2019 13:16

Instrument :
MSVOA_X
ClientSampleId :
TR-04-121919

Tgt Ion	Ratio	Lower	Upper
128	100		
127	19.4	10.2	15.4#
129	15.9	8.7	13.1#

