

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\
 Data File : VF062155.D
 Acq On : 26 Mar 2019 19:35
 Operator : VA/AP
 Sample : K2086-03
 Misc : 6.59g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-13

Quant Time: Mar 27 05:18:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	6781	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	7625	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.76	117	4042	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	1128	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	619	12.27	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	24.54%	
35) Dibromofluoromethane	4.10	113	1449	28.09	ug/l	-0.05
Spiked Amount				50.000		
			Recovery	=	56.18%	
50) Toluene-d8	7.54	98	5354	34.77	ug/l	-0.05
Spiked Amount				50.000		
			Recovery	=	69.54%	
62) 4-Bromofluorobenzene	11.41	95	856	14.40	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	28.80%	

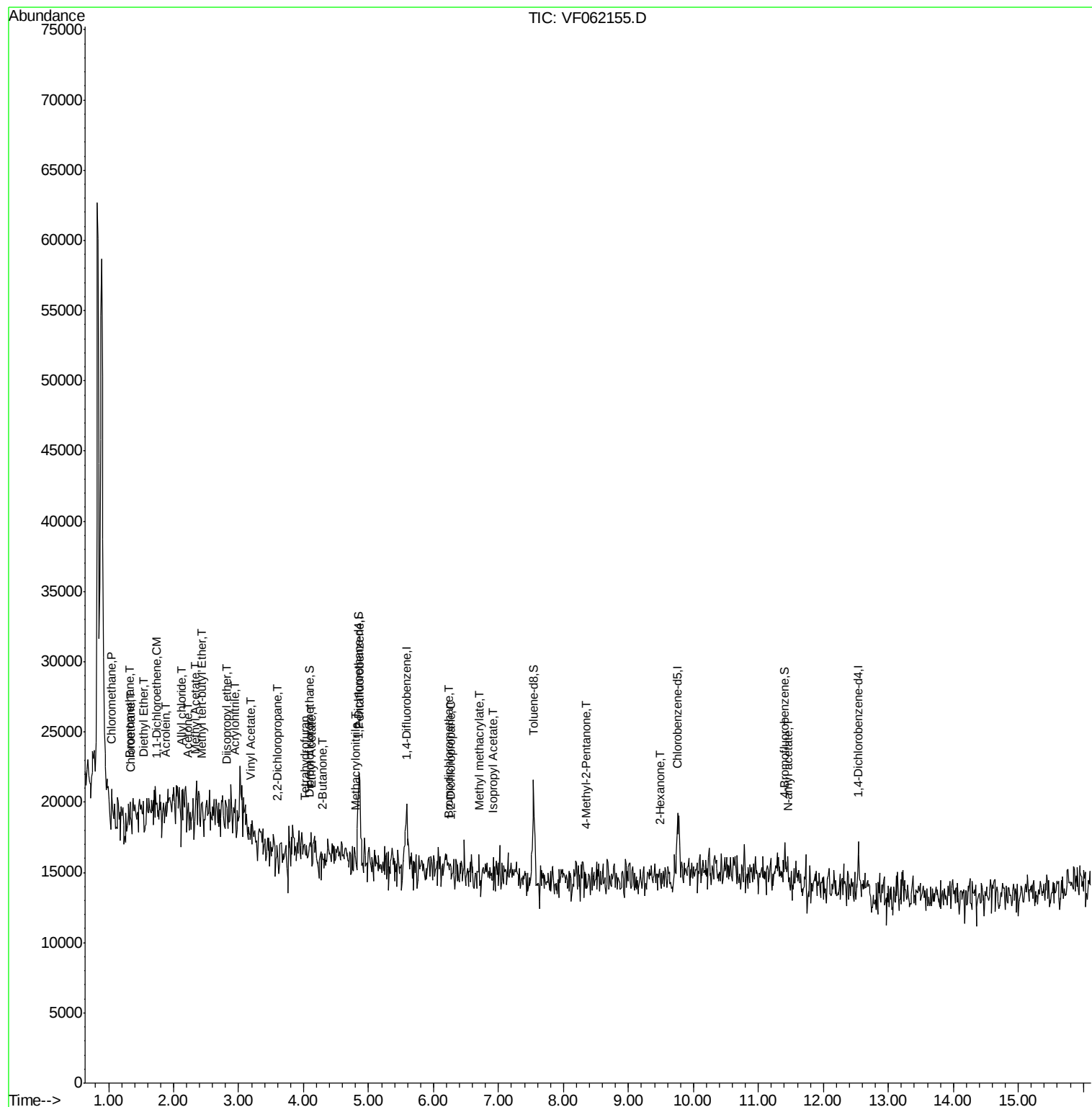
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.04	50	175	1.925	ug/l #	42
5) Bromomethane	1.33	94	761	12.591	ug/l #	5
6) Chloroethane	1.35	64	69	1.630	ug/l #	44
8) Diethyl Ether	1.54	74	73	3.147	ug/l #	23
12) 1,1-Dichloroethene	1.75	96	152	2.325	ug/l #	1
13) Acrolein	1.87	56	601	180.094	ug/l	94
14) Allyl chloride	2.13	41	454	6.506	ug/l #	21
15) Acrylonitrile	2.96	53	164	16.805	ug/l #	15
16) Acetone	2.24	43	217	20.442	ug/l #	49
18) Methyl Acetate	2.32	43	450	17.771	ug/l #	56
19) Methyl tert-butyl Ether	2.42	73	145	1.404	ug/l #	58
20) Methylene Chloride	2.19	84	92	Below Cal	#	6
22) Diisopropyl ether	2.83	45	536	2.929	ug/l #	49
23) Vinyl Acetate	3.18	43	211	2.817	ug/l #	76
25) 2-Butanone	4.30	43	193	8.709	ug/l #	55
26) 2,2-Dichloropropane	3.60	77	73	1.641	ug/l #	56
29) Tetrahydrofuran	4.03	42	65	6.746	ug/l #	33
37) Ethyl Acetate	4.11	43	150	4.726	ug/l #	24
41) Methacrylonitrile	4.81	41	79	4.704	ug/l #	24
43) Isopropyl Acetate	6.92	43	227	5.905	ug/l #	42
45) 1,2-Dichloropropane	6.27	63	78	1.680	ug/l #	44
47) Bromodichloromethane	6.24	83	99	1.574	ug/l #	26
48) Methyl methacrylate	6.71	41	80	3.655	ug/l #	14
51) 4-Methyl-2-Pentanone	8.35	43	164	6.374	ug/l #	33
59) 2-Hexanone	9.49	43	62	3.288	ug/l #	22
74) N-amyl acetate	11.45	43	207	10.945	ug/l #	43

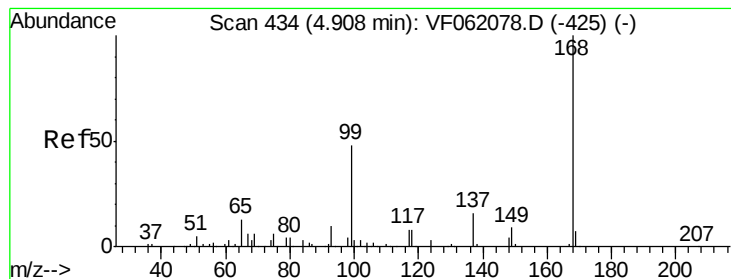
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

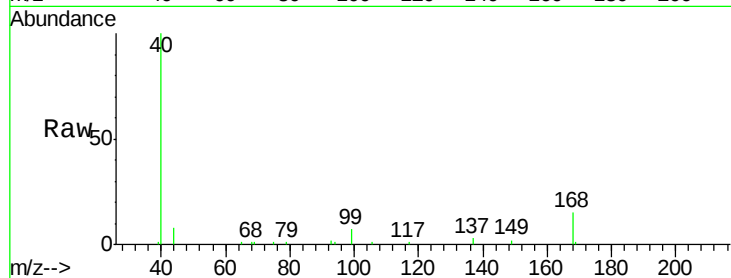
CS-13

Tot Ion:168 Resp: 6781

Ion Ratio Lower Upper

168 100

99 45.9 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

2500

2000

1500

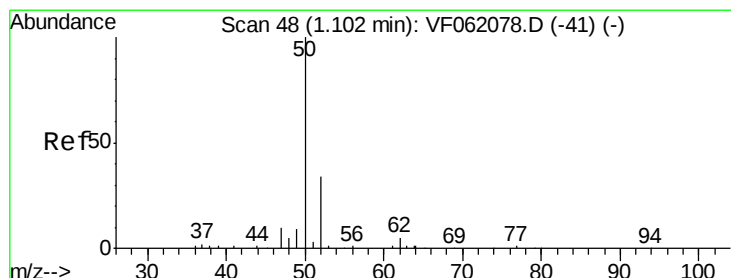
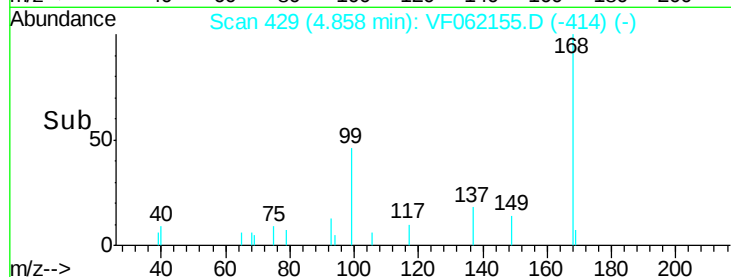
1000

500

0

4.80 4.90 5.00

Time-->



#3

Chloromethane

Concen: 1.925 ug/l

RT: 1.04 min Scan# 42

Delta R.T. -0.06 min

Lab File: VF062155.D

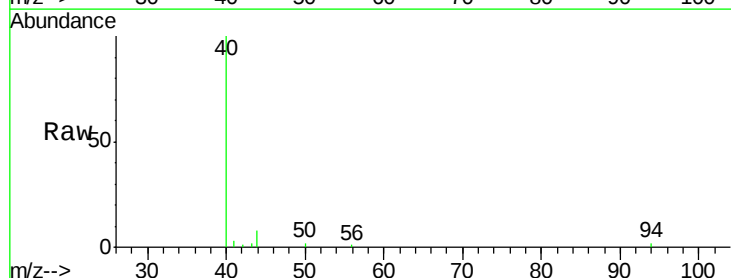
Acq: 26 Mar 2019 19:35

Tgt Ion: 50 Resp: 175

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.04

300

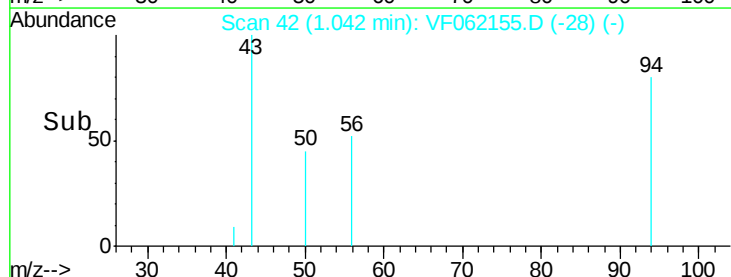
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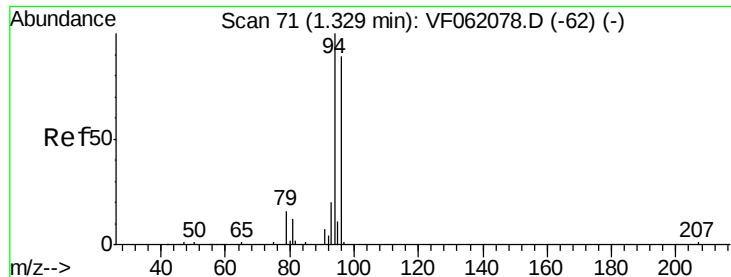
100

0

1.02 1.04 1.06

Time-->





#5

Bromomethane

Concen: 12.591 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

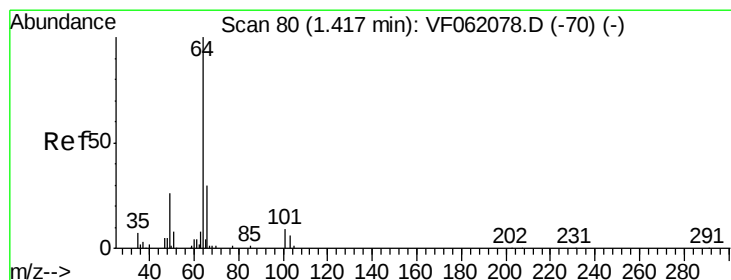
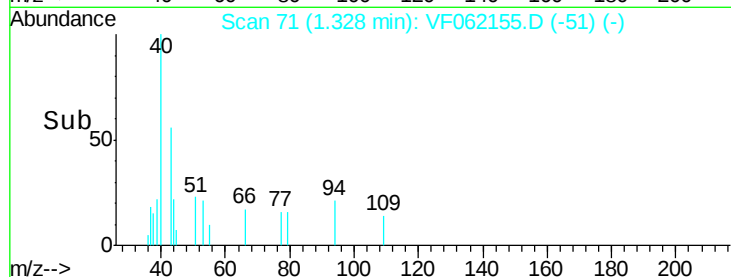
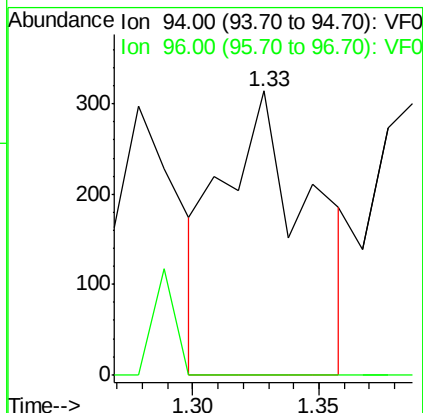
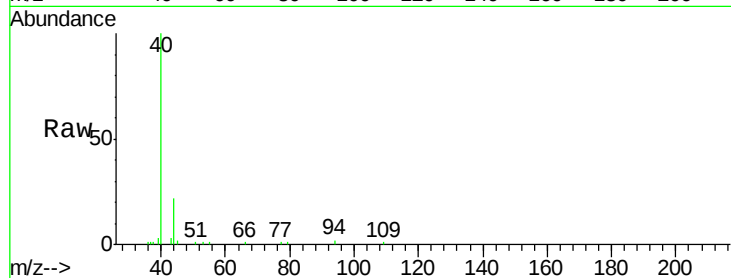
CS-13

Tot Ion: 94 Resp: 761

Ion Ratio Lower Upper

94 100

96 0.0 70.9 106.3#



#6

Chloroethane

Concen: 1.630 ug/l

RT: 1.35 min Scan# 73

Delta R.T. -0.07 min

Lab File: VF062155.D

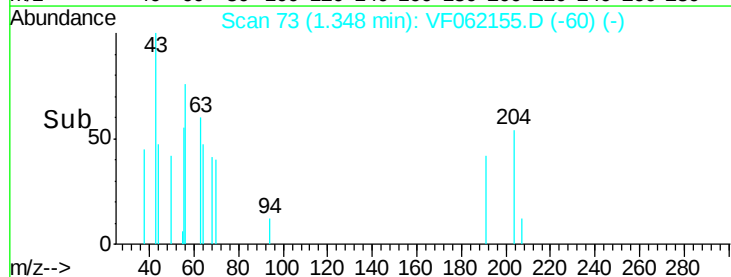
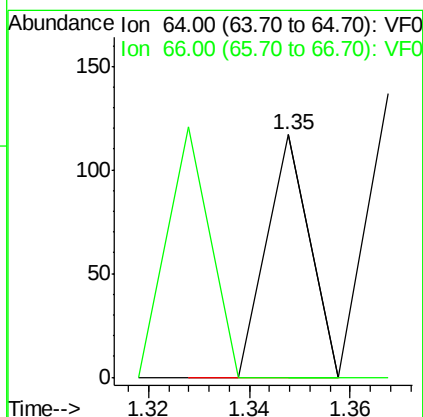
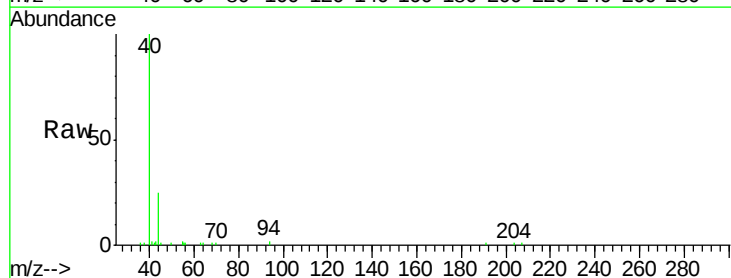
Acq: 26 Mar 2019 19:35

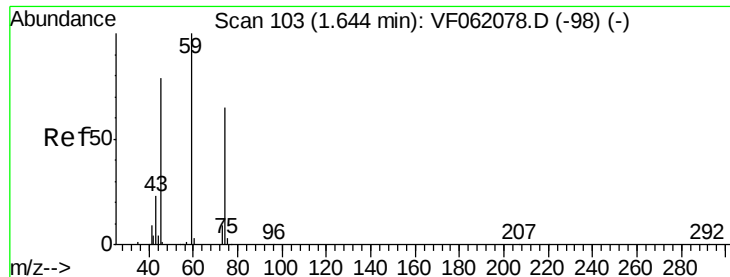
Tgt Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 0.0 24.5 36.7#





#8

Diethyl Ether

Concen: 3.147 ug/l

RT: 1.54 min Scan# 92

Delta R.T. -0.11 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

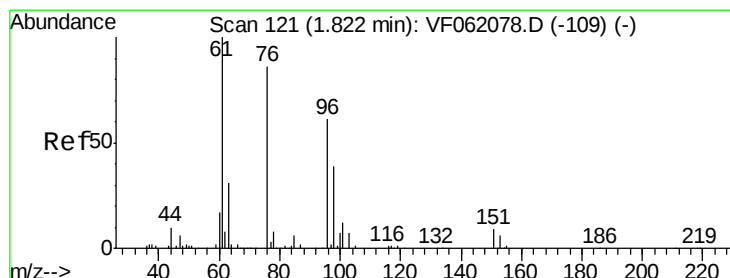
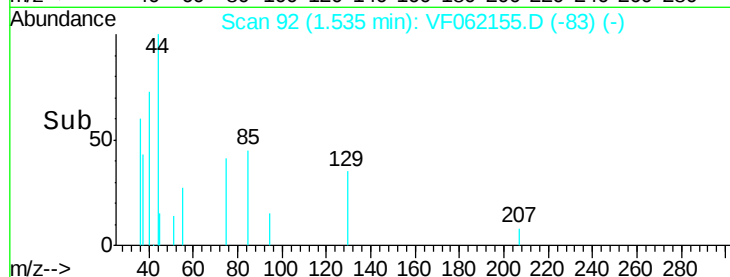
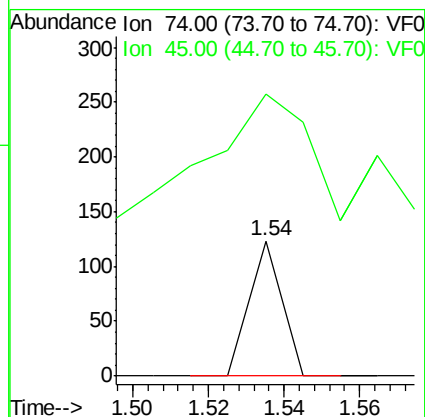
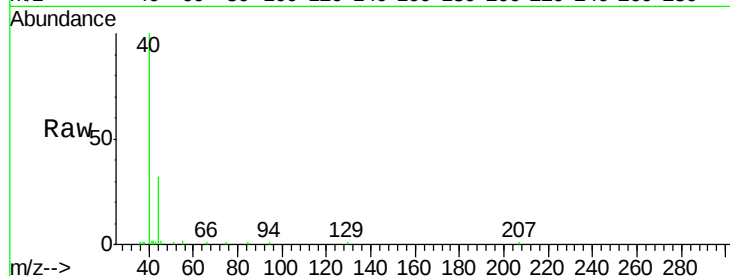
CS-13

Tot Ion: 74 Resp: 73

Ion Ratio Lower Upper

74 100

45 209.8 61.4 184.2#



#12

1,1-Dichloroethene

Concen: 2.325 ug/l

RT: 1.75 min Scan# 114

Delta R.T. -0.07 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

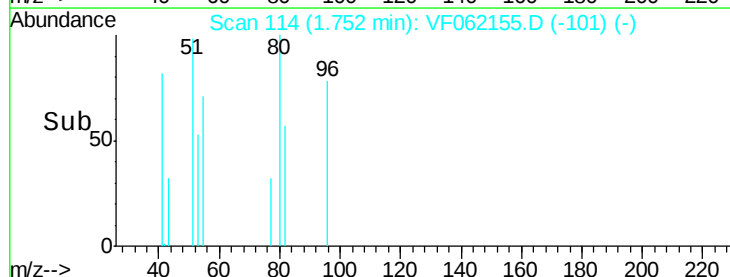
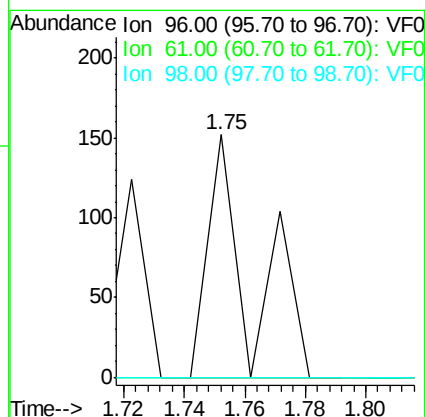
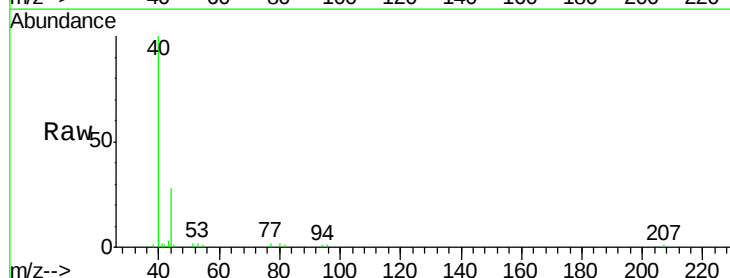
Tgt Ion: 96 Resp: 152

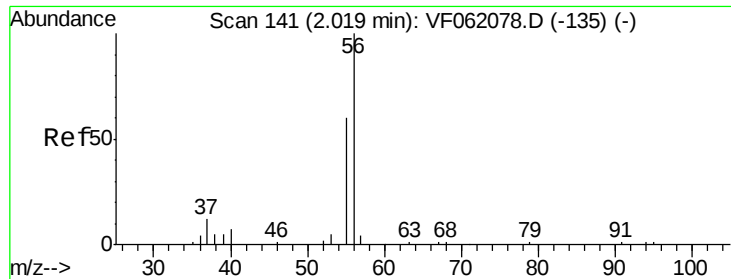
Ion Ratio Lower Upper

96 100

61 0.0 131.0 196.6#

98 0.0 51.5 77.3#

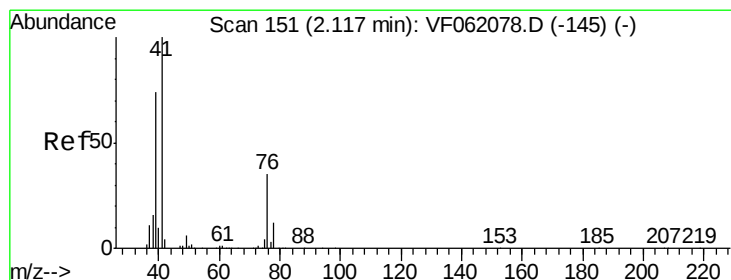
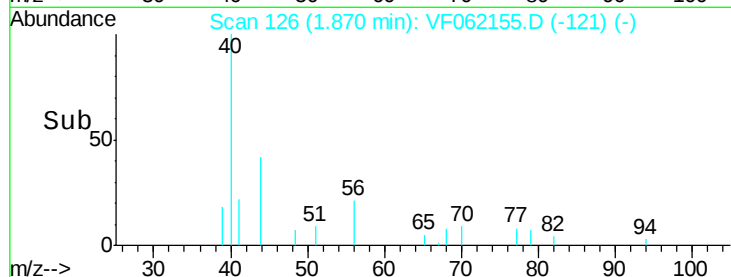
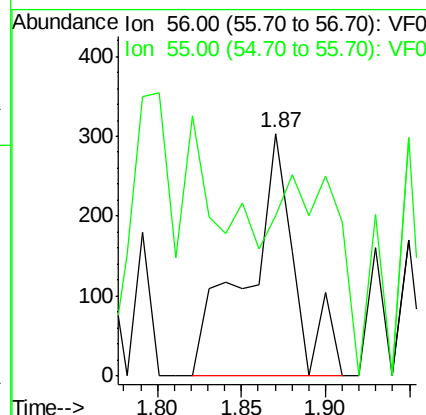
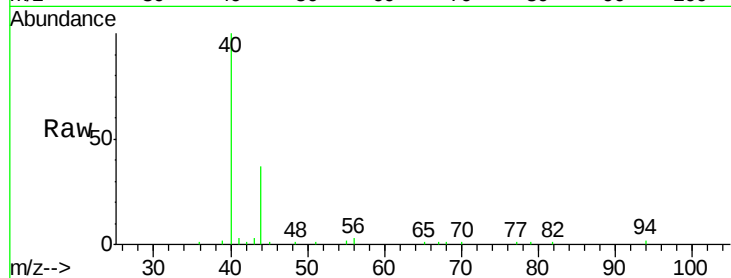




#13
Acrolein
Concen: 180.094 ug/l
RT: 1.87 min Scan# 126
Delta R.T. -0.15 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

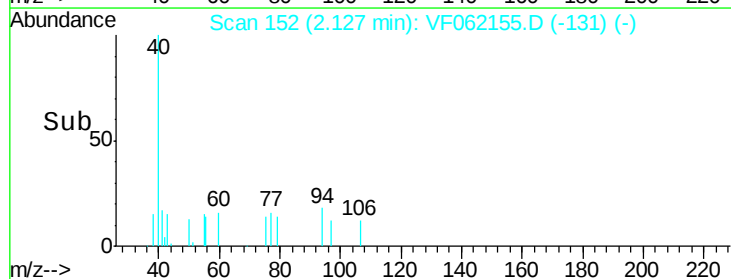
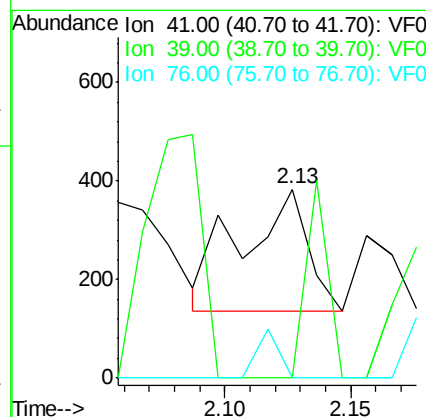
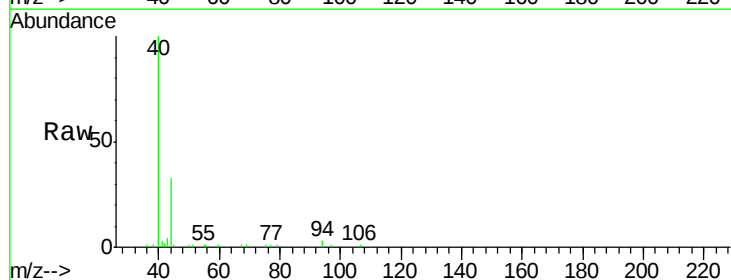
Instrument :
MSVOA_F
ClientSampleId :
CS-13

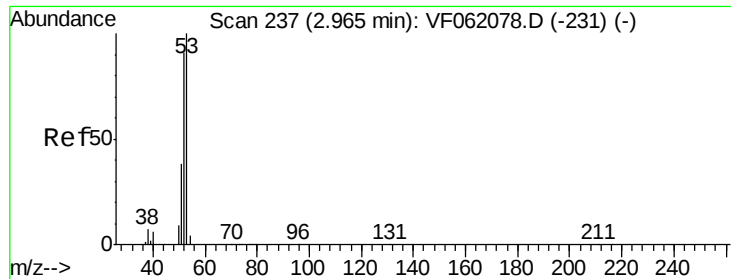
Tot Ion: 56 Resp: 601
Ion Ratio Lower Upper
56 100
55 66.1 49.0 73.4



#14
Allyl chloride
Concen: 6.506 ug/l
RT: 2.13 min Scan# 152
Delta R.T. 0.01 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 41 Resp: 454
Ion Ratio Lower Upper
41 100
39 0.0 59.8 89.8#
76 0.0 30.0 45.0#





#15

Acrylonitrile

Concen: 16.805 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampleId :

CS-13

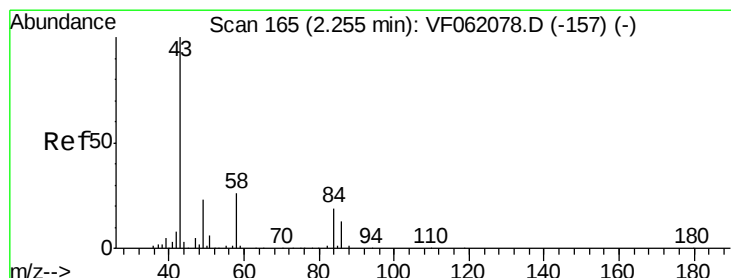
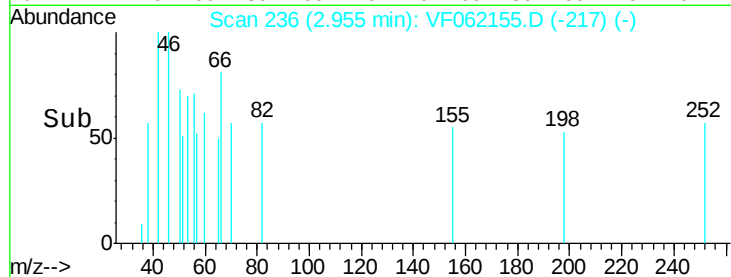
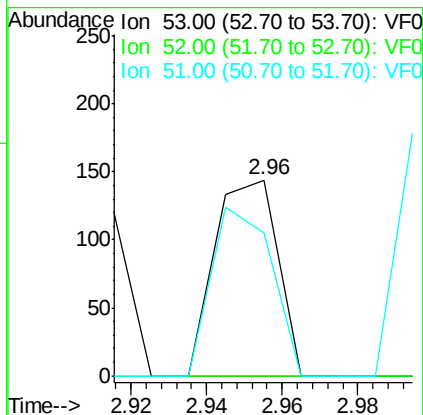
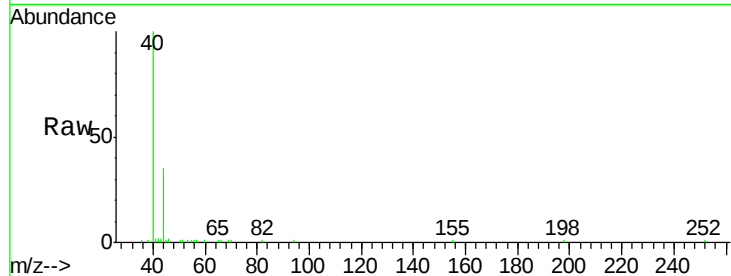
Tot Ion: 53 Resp: 164

Ion Ratio Lower Upper

53 100

52 0.0 72.3 108.5#

51 72.9 30.4 45.6#



#16

Acetone

Concen: 20.442 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062155.D

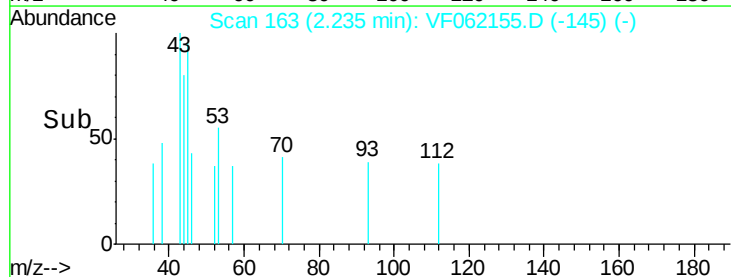
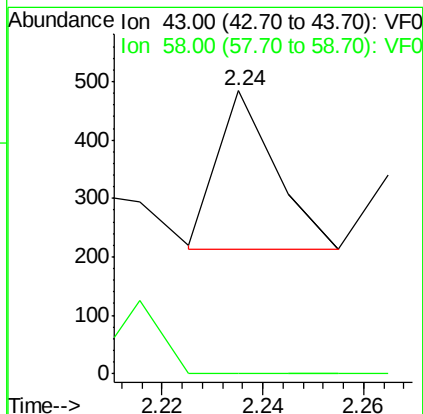
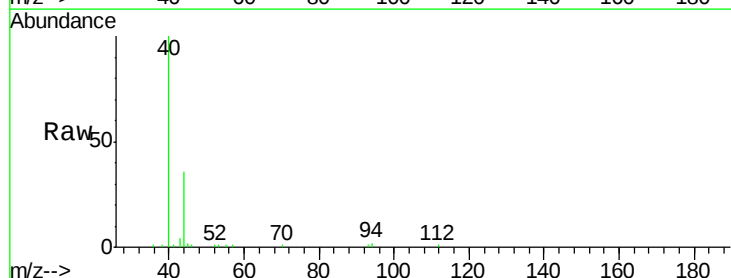
Acq: 26 Mar 2019 19:35

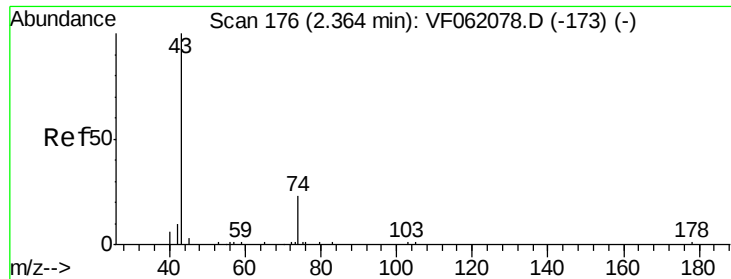
Tgt Ion: 43 Resp: 217

Ion Ratio Lower Upper

43 100

58 0.0 20.8 31.2#

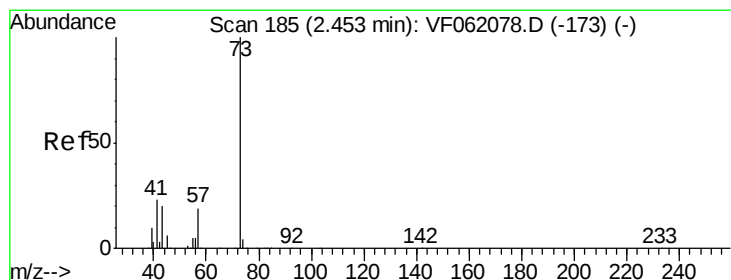
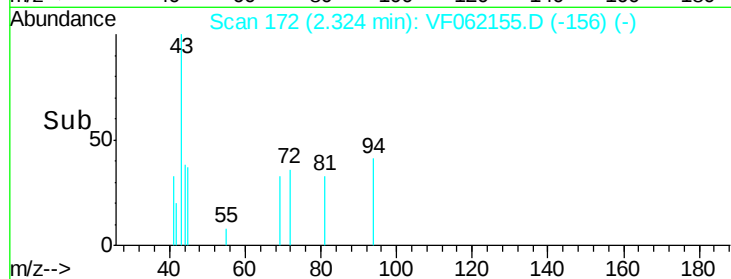
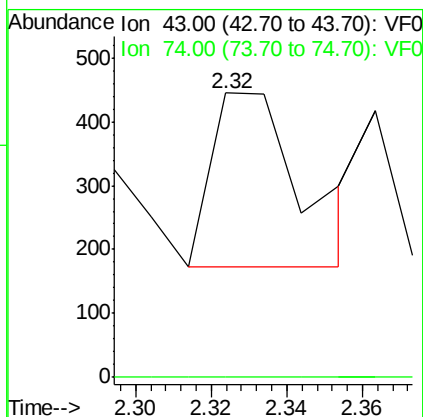
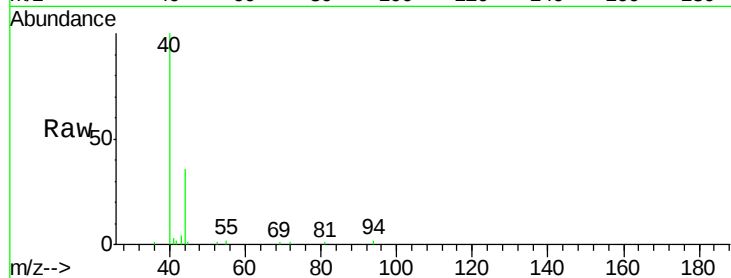




#18
Methyl Acetate
Concen: 17.771 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.04 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

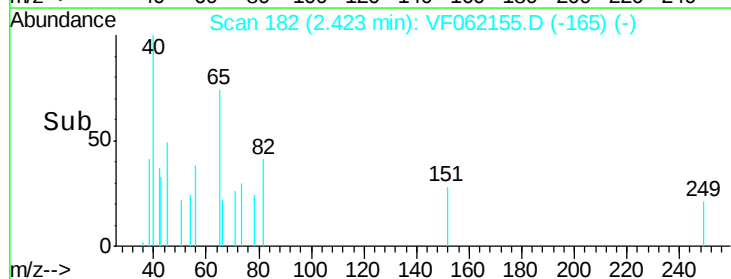
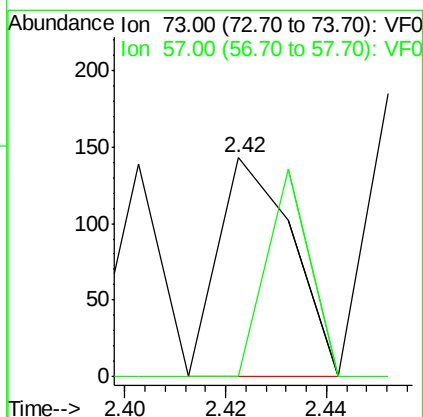
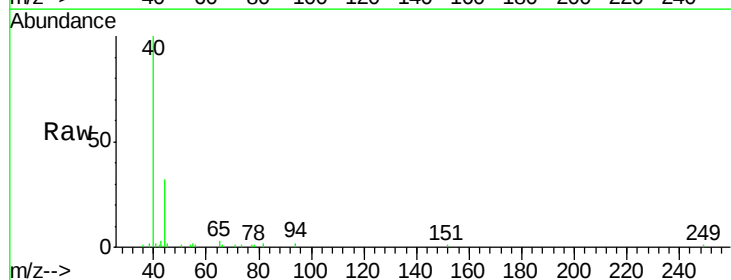
Instrument :
MSVOA_F
ClientSampled :
CS-13

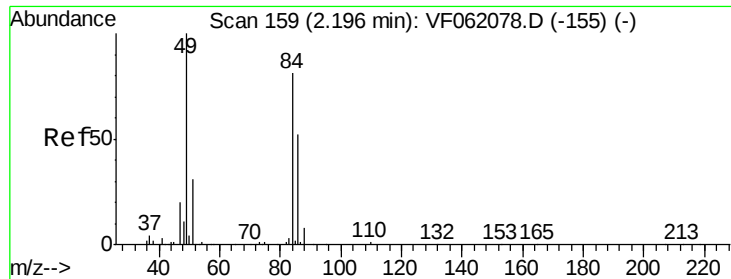
Tot Ion: 43 Resp: 450
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#19
Methyl tert-butyl Ether
Concen: 1.404 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 73 Resp: 145
Ion Ratio Lower Upper
73 100
57 0.0 15.1 22.7#

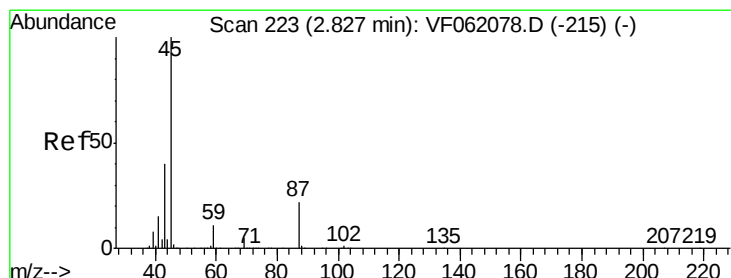
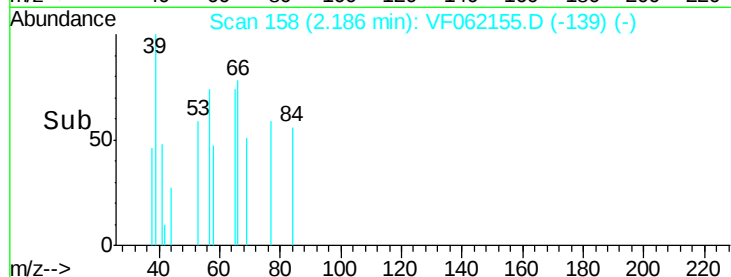
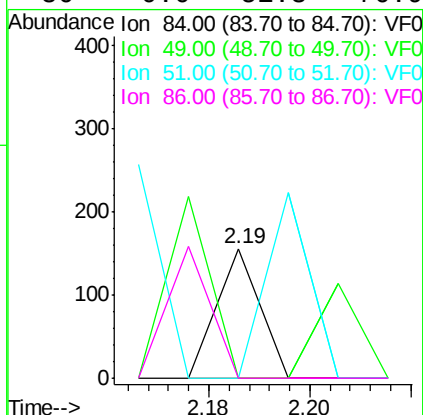
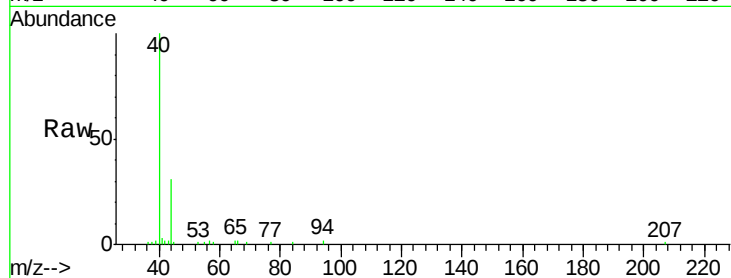




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

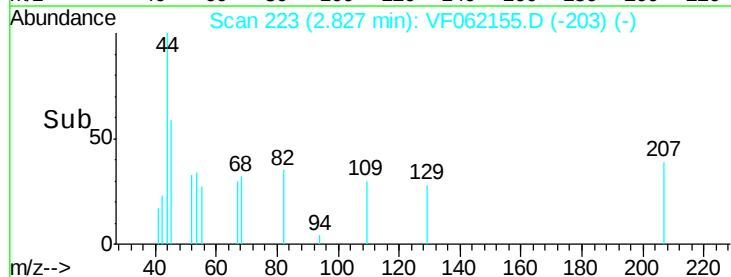
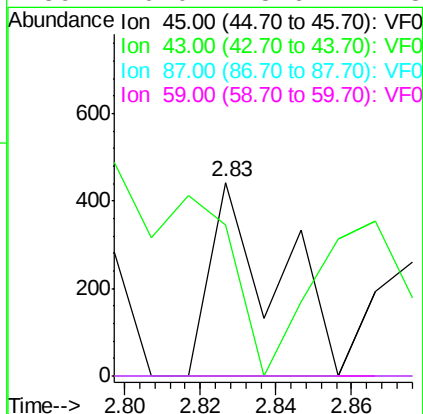
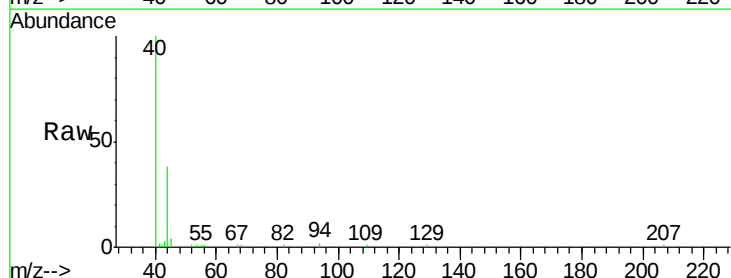
Instrument :
MSVOA_F
ClientSampled :
CS-13

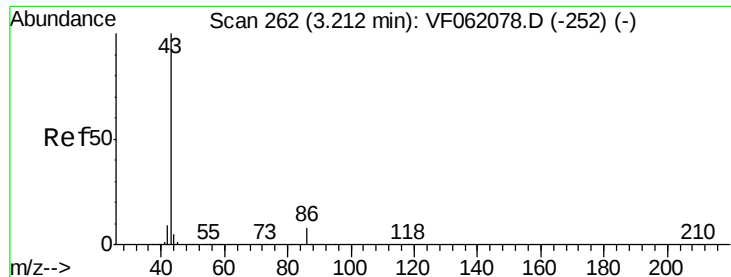
Tot Ion: 84 Resp: 92
Ion Ratio Lower Upper
84 100
49 0.0 100.4 150.6#
51 0.0 31.0 46.6#
86 0.0 51.3 76.9#



#22
Diisopropyl ether
Concen: 2.929 ug/l
RT: 2.83 min Scan# 223
Delta R.T. -0.00 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 45 Resp: 536
Ion Ratio Lower Upper
45 100
43 78.1 32.5 48.7#
87 0.0 17.4 26.2#
59 0.0 8.6 12.8#





#23

Vinyl Acetate

Concen: 2.817 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampleId :

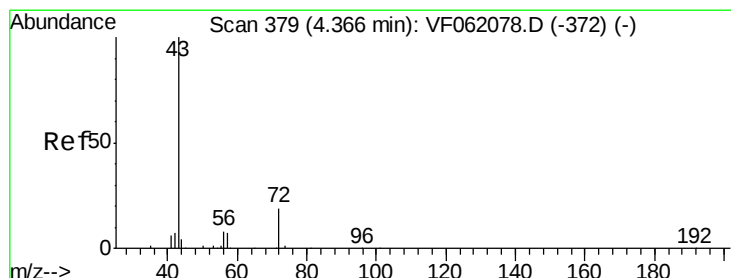
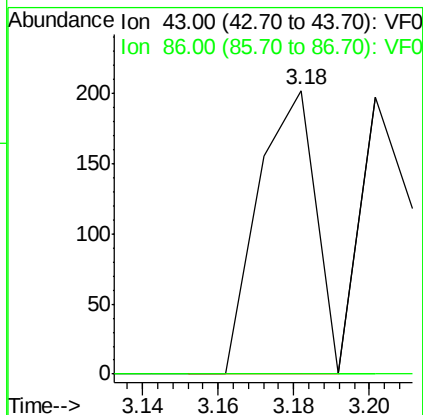
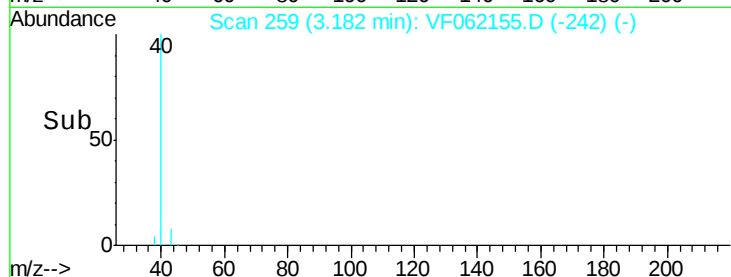
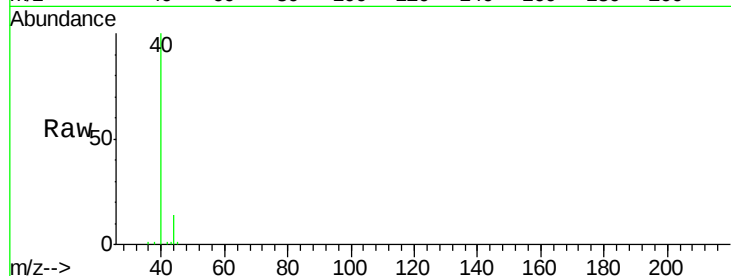
CS-13

Tot Ion: 43 Resp: 211

Ion Ratio Lower Upper

43 100

86 0.0 6.8 10.2#



#25

2-Butanone

Concen: 8.709 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.07 min

Lab File: VF062155.D

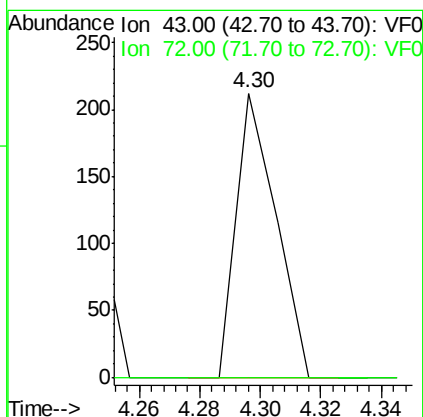
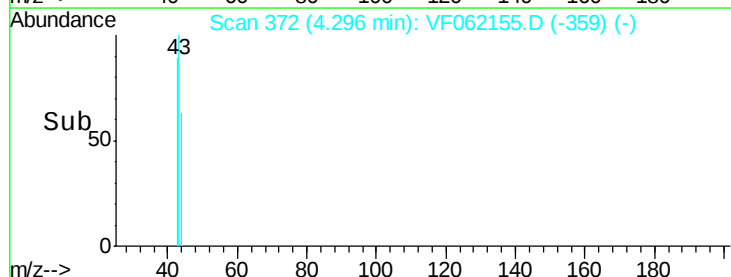
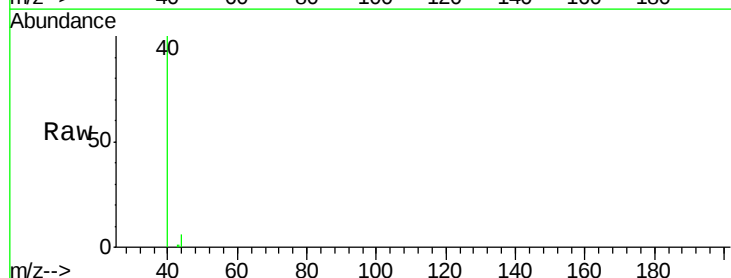
Acq: 26 Mar 2019 19:35

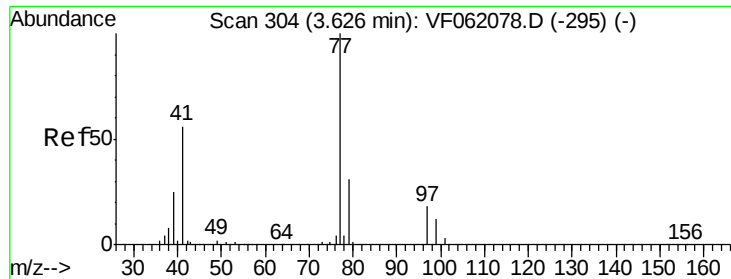
Tgt Ion: 43 Resp: 193

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#





#26

2,2-Dichloropropane

Concen: 1.641 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.03 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

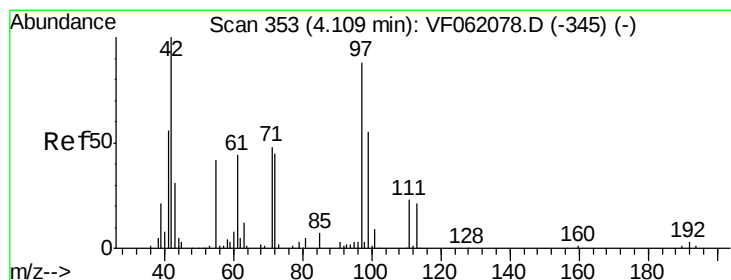
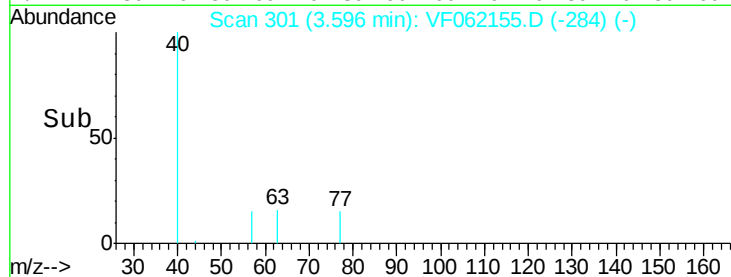
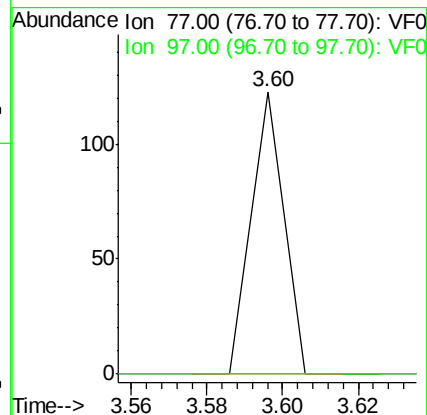
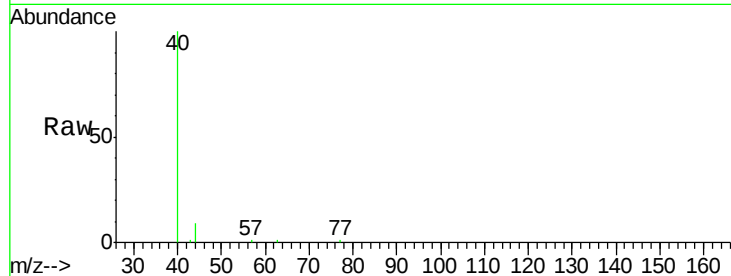
CS-13

Tot Ion: 77 Resp: 73

Ion Ratio Lower Upper

77 100

97 0.0 10.3 30.9#



#29

Tetrahydrofuran

Concen: 6.746 ug/l

RT: 4.03 min Scan# 345

Delta R.T. -0.08 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

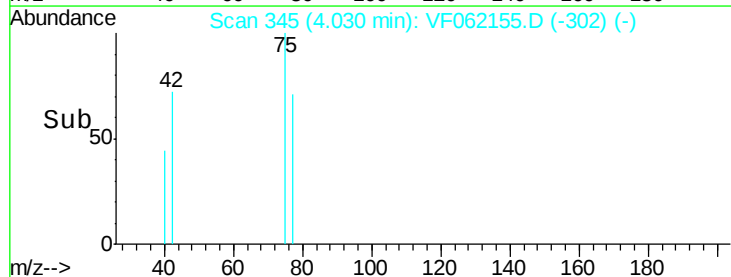
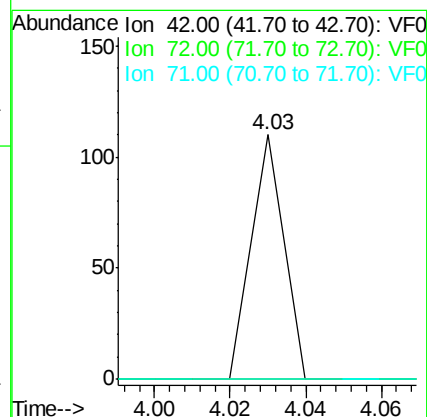
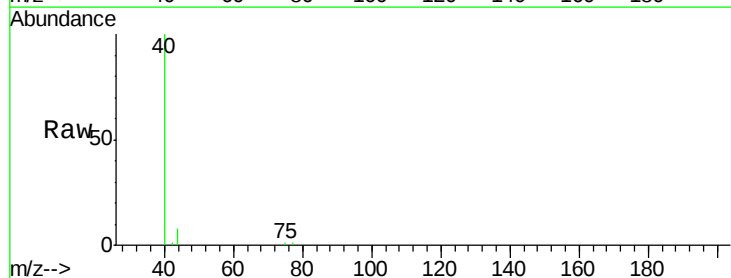
Tgt Ion: 42 Resp: 65

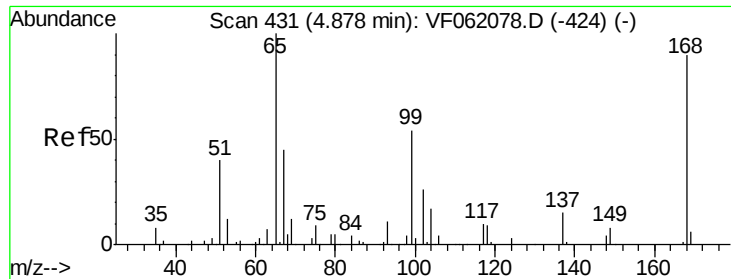
Ion Ratio Lower Upper

42 100

72 0.0 33.3 49.9#

71 0.0 35.0 52.4#

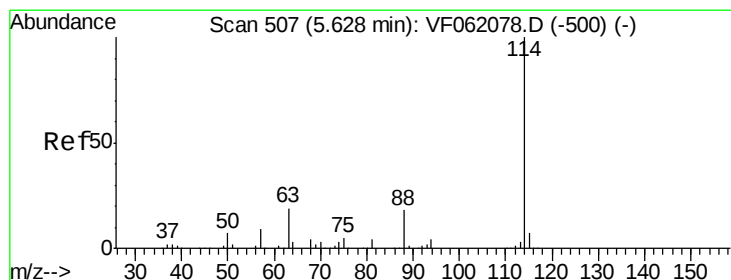
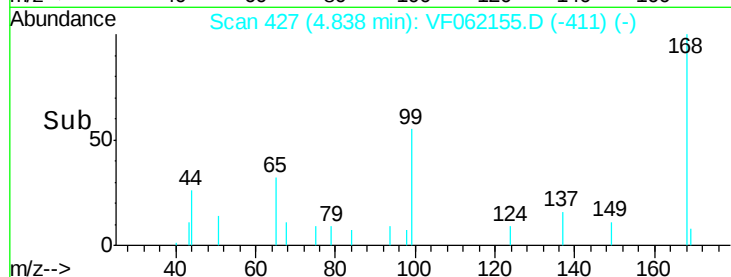
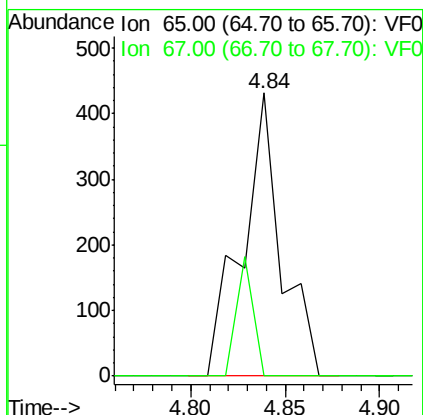
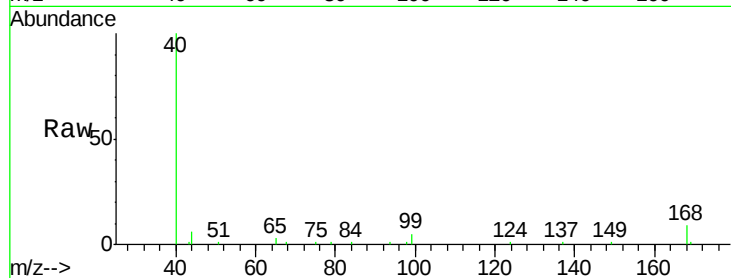




#33
 1,2-Dichloroethane-d4
 Concen: 12.273 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF062155.D
 Acq: 26 Mar 2019 19:35

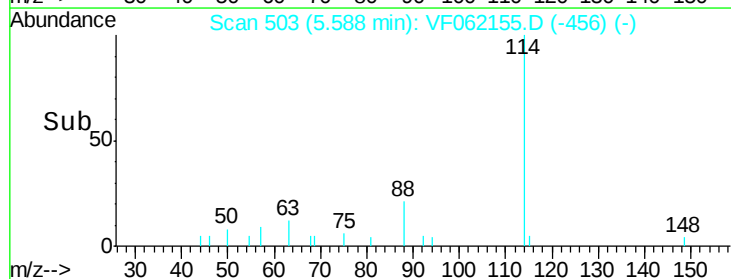
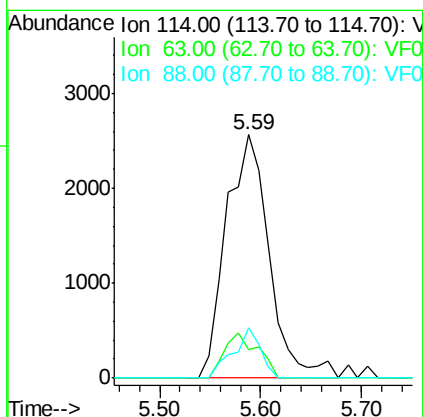
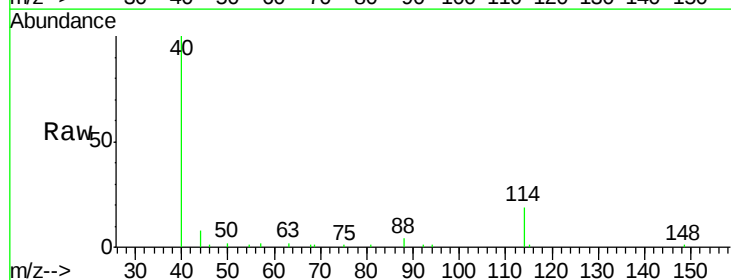
Instrument :
 MSVOA_F
 ClientSampleID :
 CS-13

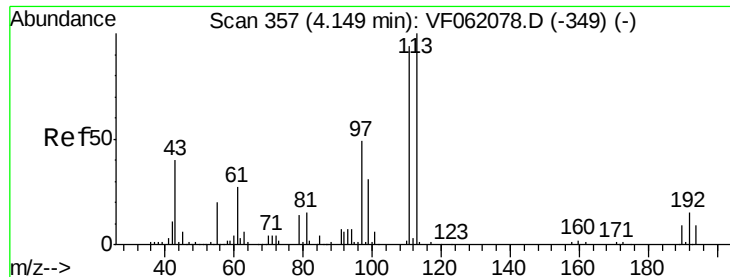
Tot Ion: 65 Resp: 619
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.04 min
 Lab File: VF062155.D
 Acq: 26 Mar 2019 19:35

Tgt Ion: 114 Resp: 7625
 Ion Ratio Lower Upper
 114 100
 63 11.9 0.0 37.8
 88 20.9 0.0 36.4

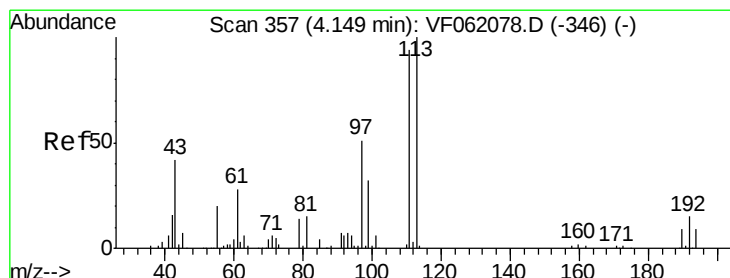
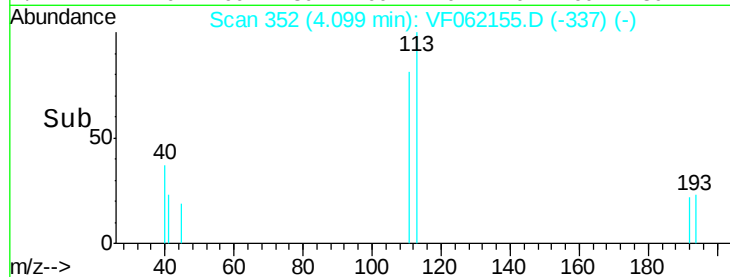
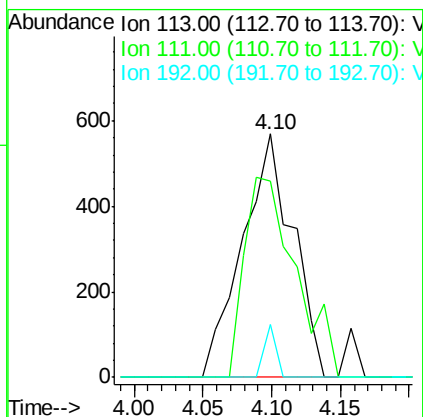
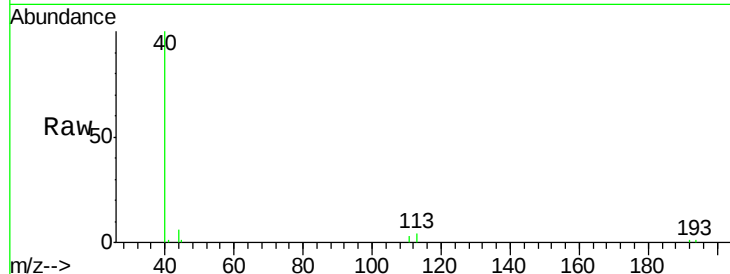




#35
 Dibromofluoromethane
 Concen: 28.092 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.05 min
 Lab File: VF062155.D
 Acq: 26 Mar 2019 19:35

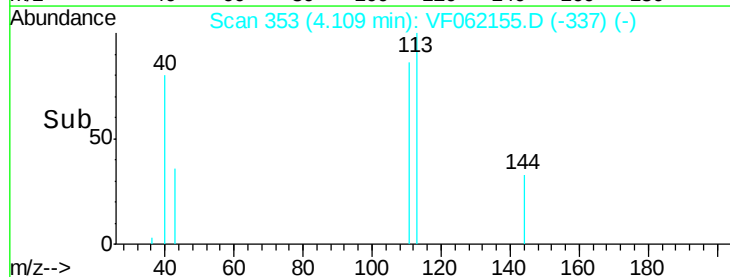
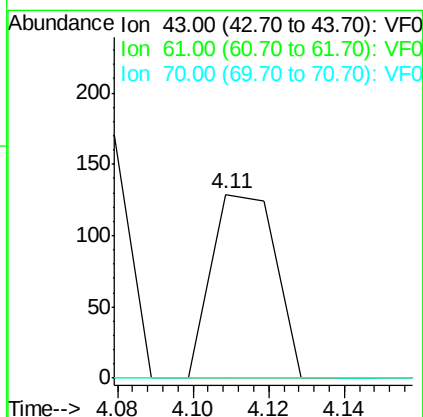
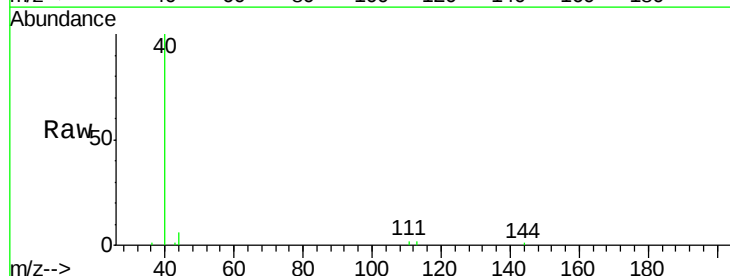
Instrument :
 MSVOA_F
 ClientSampleId :
 CS-13

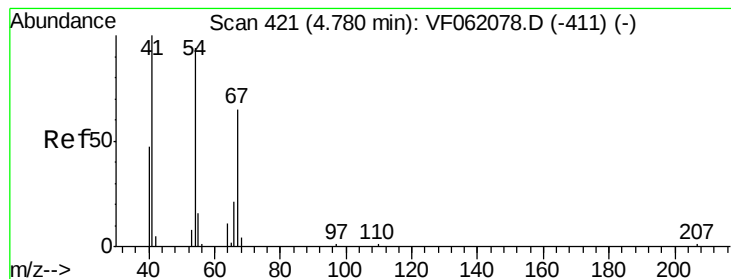
Tot Ion:113 Resp: 1449
 Ion Ratio Lower Upper
 113 100
 111 80.7 75.4 113.0
 192 22.0 12.3 18.5#



#37
 Ethyl Acetate
 Concen: 4.726 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF062155.D
 Acq: 26 Mar 2019 19:35

Tgt Ion: 43 Resp: 150
 Ion Ratio Lower Upper
 43 100
 61 0.0 53.6 80.4#
 70 0.0 9.0 13.6#





#41

Methacrylonitrile

Concen: 4.704 ug/l

RT: 4.81 min Scan# 424

Delta R.T. 0.03 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

CS-13

Tot Ion: 41 Resp: 79

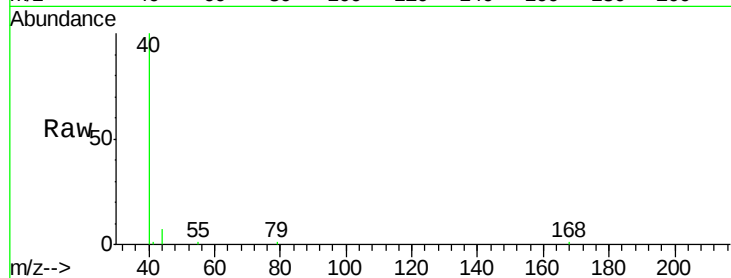
Ion Ratio Lower Upper

41 100

39 0.0 43.5 65.3#

67 0.0 51.6 77.4#

52 0.0 36.5 54.7#

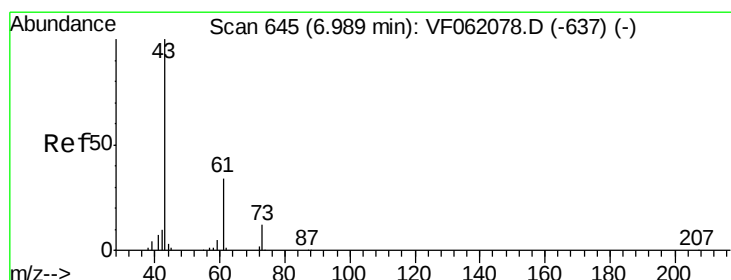
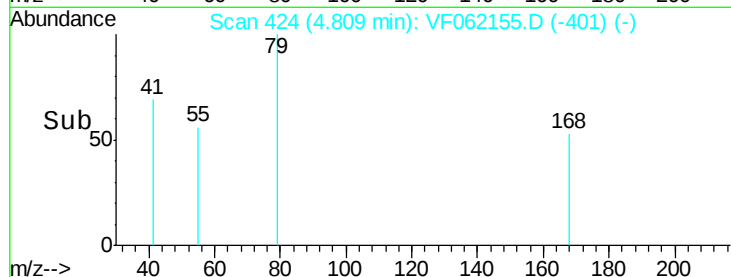
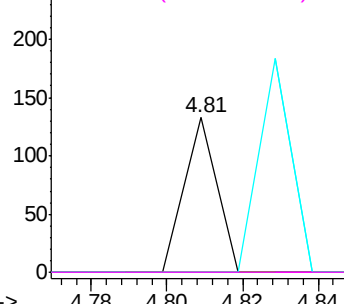


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 5.905 ug/l

RT: 6.92 min Scan# 638

Delta R.T. -0.07 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

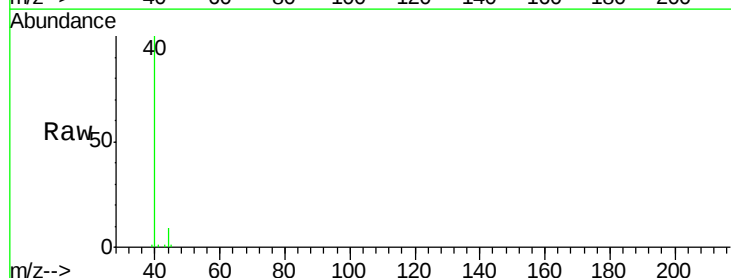
Tgt Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

61 0.0 27.0 40.4#

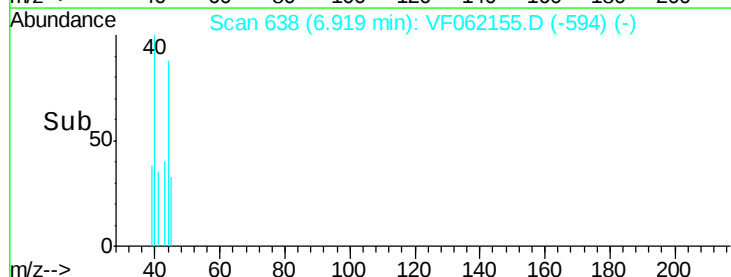
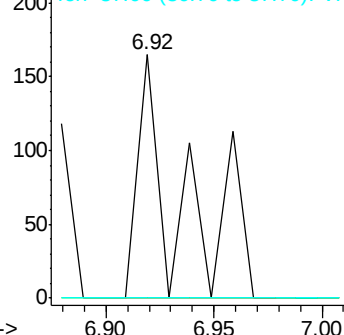
87 0.0 0.4 0.6#

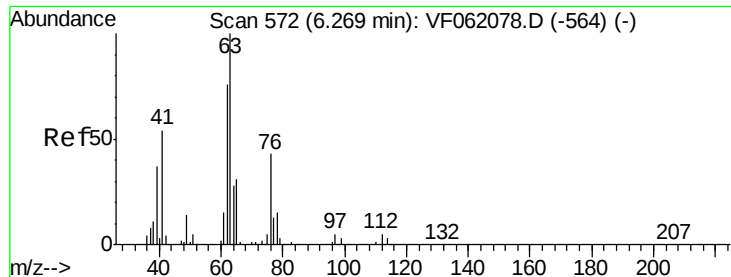


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 1.680 ug/l

RT: 6.27 min Scan# 572

Delta R.T. -0.00 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampled :

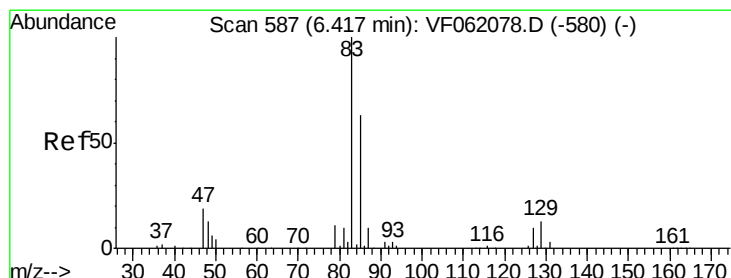
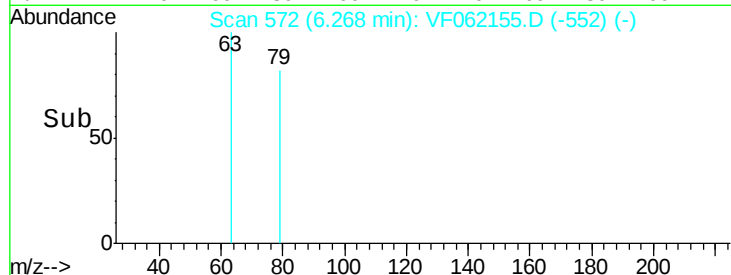
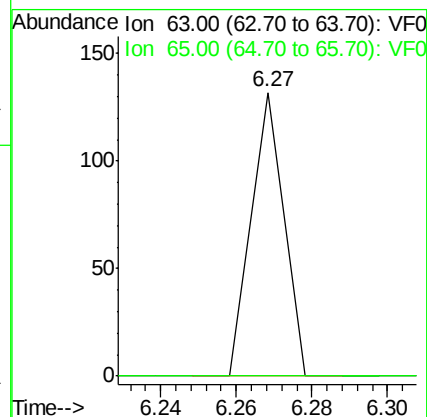
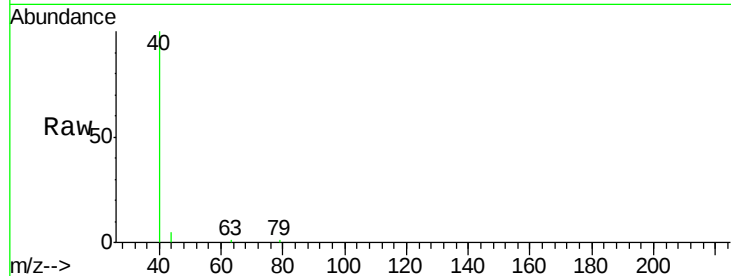
CS-13

Tot Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#47

Bromodichloromethane

Concen: 1.574 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.18 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

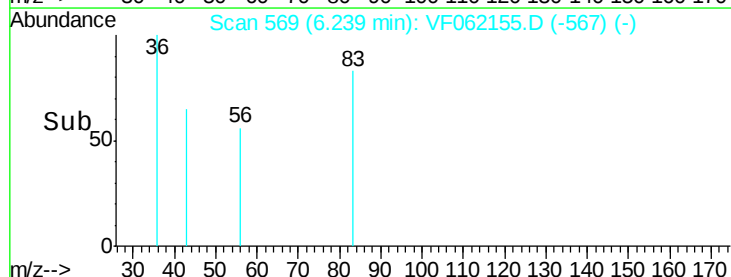
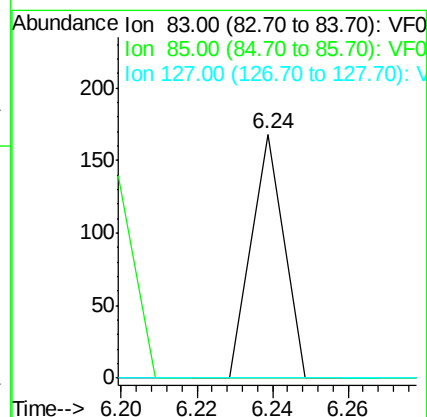
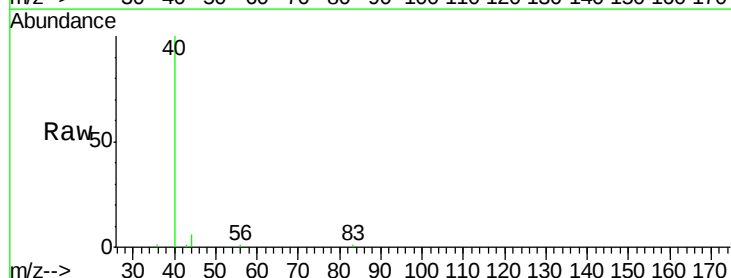
Tgt Ion: 83 Resp: 99

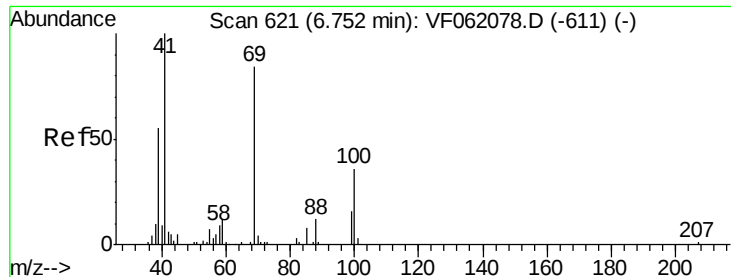
Ion Ratio Lower Upper

83 100

85 0.0 50.7 76.1#

127 0.0 7.8 11.6#

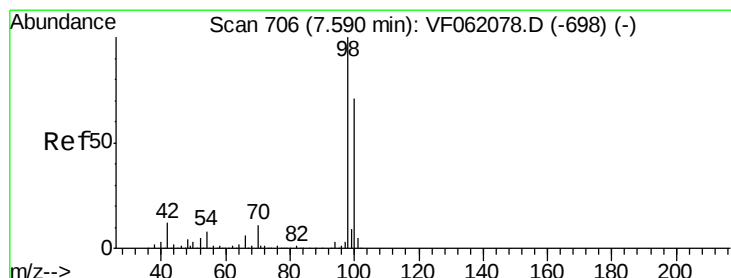
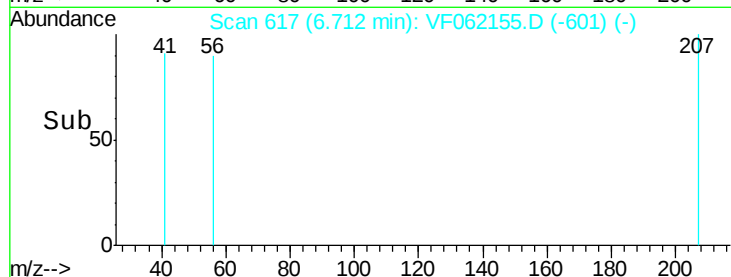
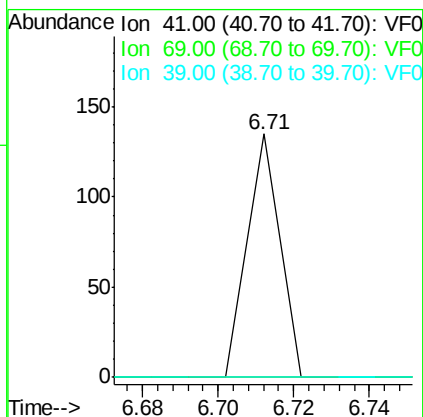
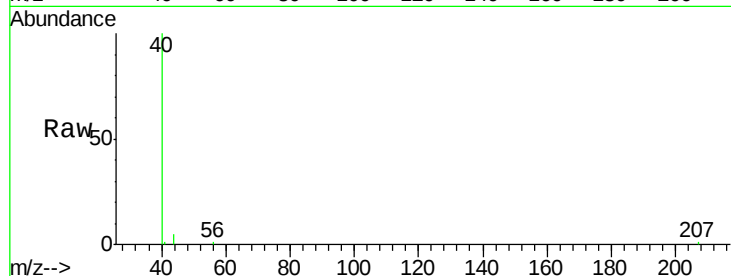




#48
Methvl methacrylate
Concen: 3.655 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.04 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

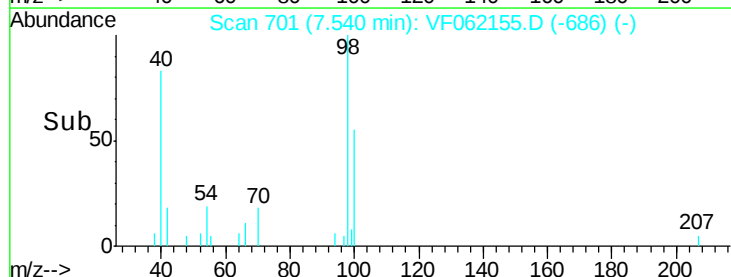
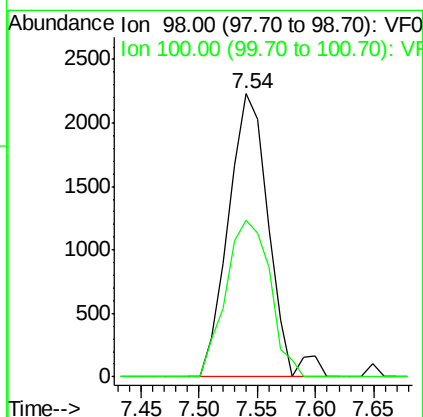
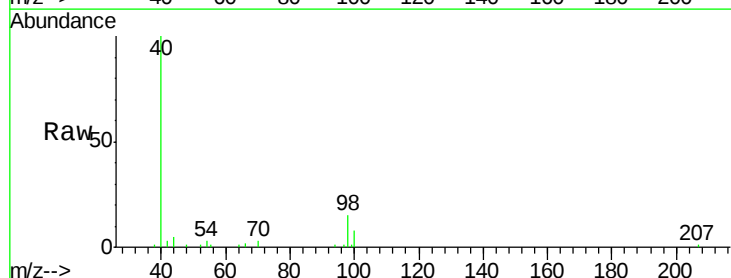
Instrument :
MSVOA_F
ClientSampleId :
CS-13

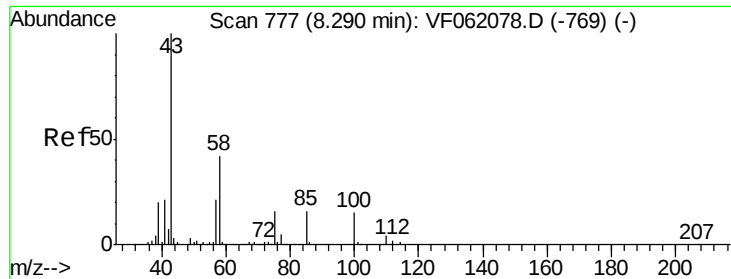
Tot Ion: 41 Resp: 80
Ion Ratio Lower Upper
41 100
69 0.0 66.6 100.0#
39 0.0 43.6 65.4#



#50
Toluene-d8
Concen: 34.774 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 98 Resp: 5354
Ion Ratio Lower Upper
98 100
100 55.3 57.0 85.6#





#51

4-Methyl-2-Pentanone

Concen: 6.374 ug/l

RT: 8.35 min Scan# 783

Delta R.T. 0.06 min

Lab File: VF062155.D

Acq: 26 Mar 2019 19:35

Instrument :

MSVOA_F

ClientSampleId :

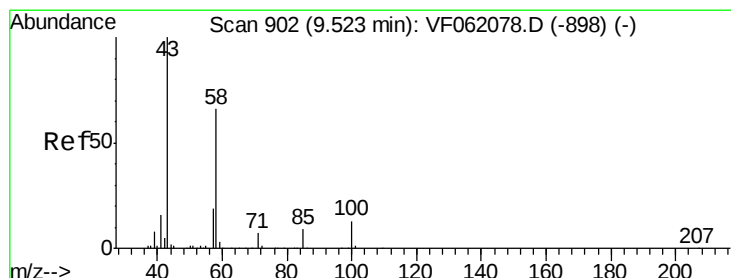
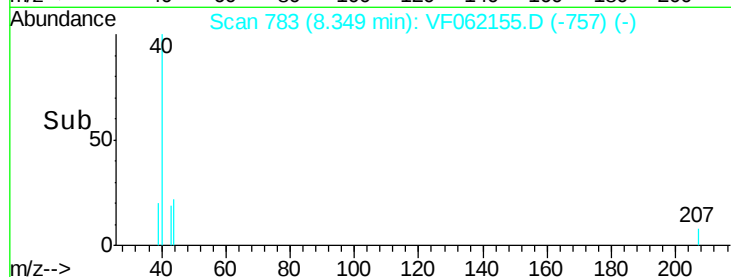
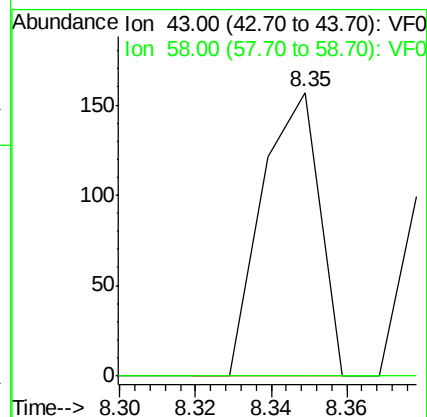
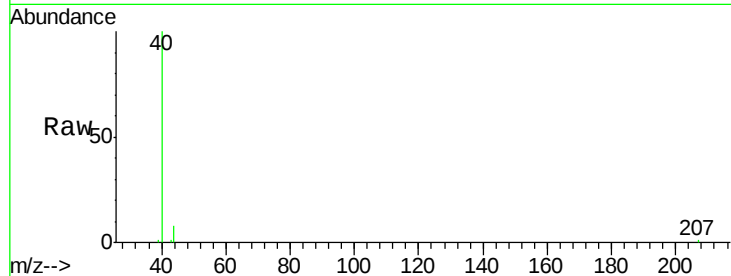
CS-13

Tot Ion: 43 Resp: 164

Ion Ratio Lower Upper

43 100

58 0.0 33.8 50.8#



#59

2-Hexanone

Concen: 3.288 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF062155.D

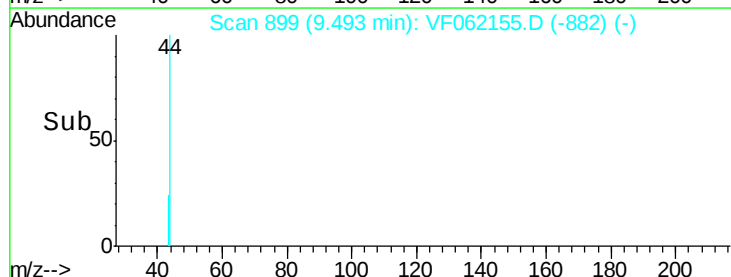
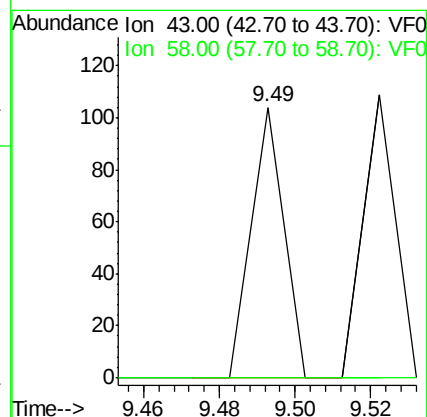
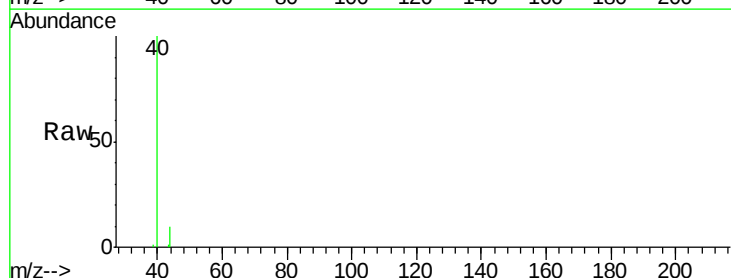
Acq: 26 Mar 2019 19:35

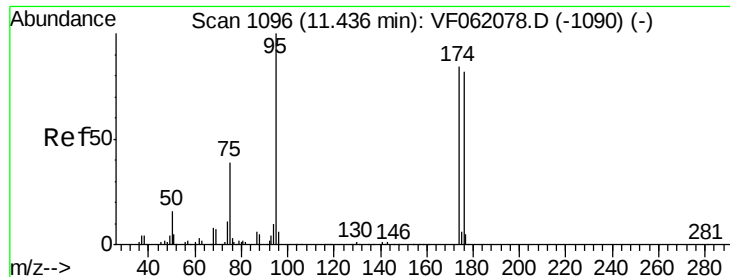
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

58 0.0 28.8 86.4#

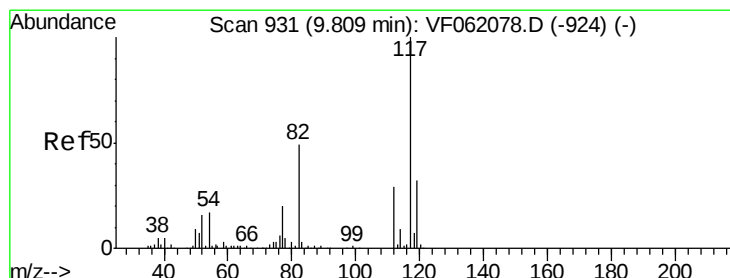
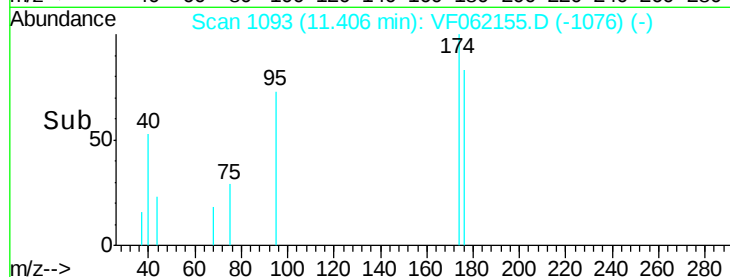
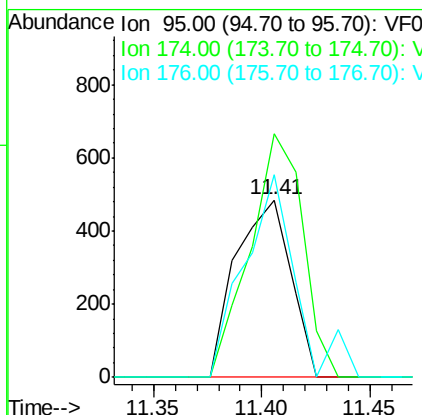
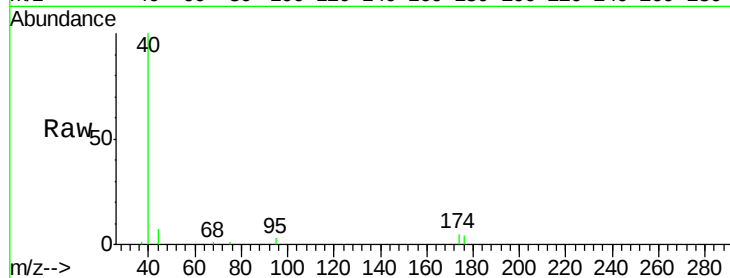




#62
4-Bromofluorobenzene
Concen: 14.401 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

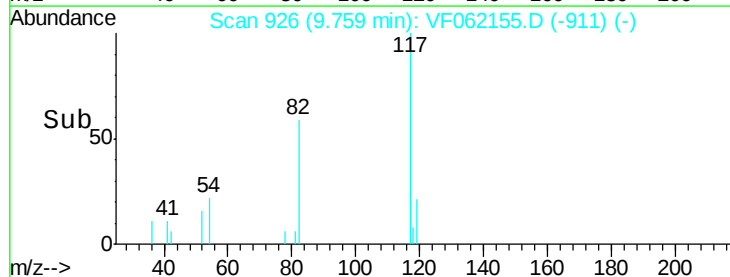
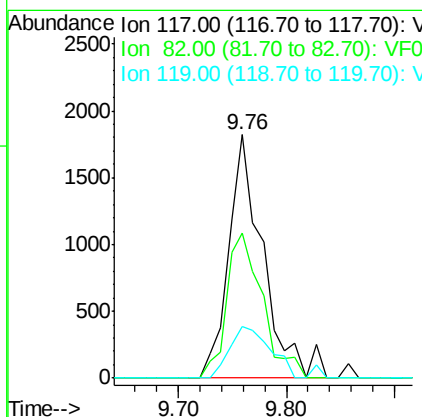
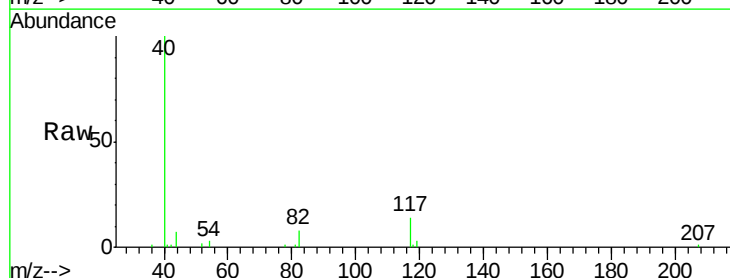
Instrument :
MSVOA_F
ClientSampled :
CS-13

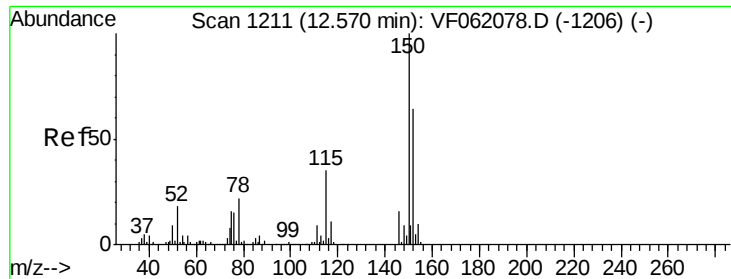
Tot Ion: 95 Resp: 856
Ion Ratio Lower Upper
95 100
174 137.3 0.0 168.2
176 114.4 0.0 164.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 117 Resp: 4042
Ion Ratio Lower Upper
117 100
82 59.4 39.2 58.8#
119 21.4 25.4 38.2#



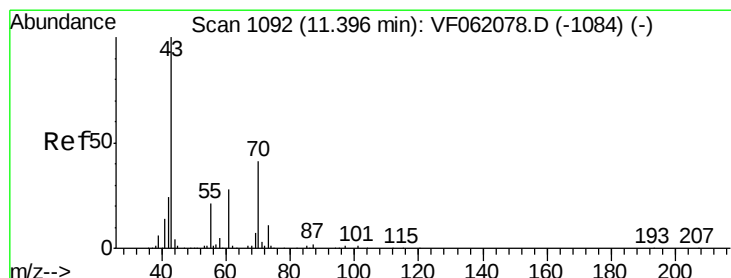
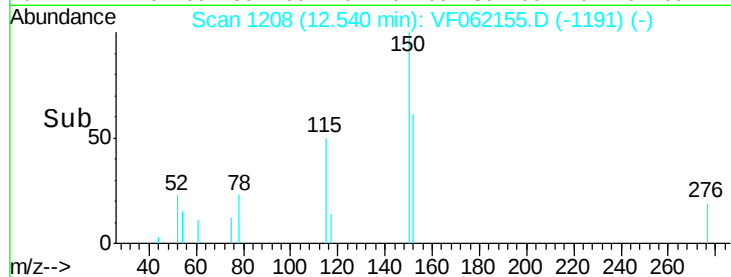
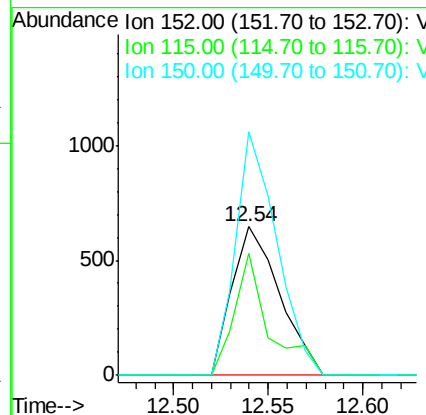
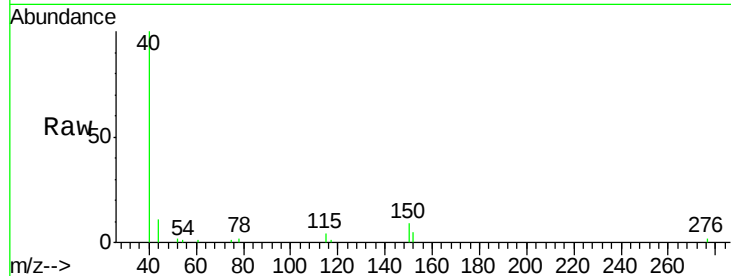


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Instrument :
MSVOA_F
ClientSampled :
CS-13

Tot Ion:152 Resp: 1128
Ion Ratio Lower Upper
152 100
115 81.9 27.7 83.1
150 164.2 0.0 313.2



#74

N-ethyl acetate
Concen: 10.945 ug/l
RT: 11.45 min Scan# 1098
Delta R.T. 0.06 min
Lab File: VF062155.D
Acq: 26 Mar 2019 19:35

Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
70 0.0 32.9 49.3#
55 0.0 17.1 25.7#
61 0.0 22.2 33.2#

