

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042619\
 Data File : VF062308.D
 Acq On : 26 Apr 2019 16:31
 Operator : FY/SY
 Sample : K2582-04
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SSSI-0419-S-DH-6-B

Quant Time: Apr 27 00:36:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.09	168	428009	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.81	114	608088	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.95	117	472303	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.64	152	275017	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.07	65	206609	59.59	ug/l	0.03
Spiked Amount			Recovery	=	119.18%	
35) Dibromofluoromethane	4.35	113	239266	53.07	ug/l	0.03
Spiked Amount			Recovery	=	106.14%	
50) Toluene-d8	7.75	98	489856	44.48	ug/l	0.03
Spiked Amount			Recovery	=	88.96%	
62) 4-Bromofluorobenzene	11.52	95	226889	49.98	ug/l	0.02
Spiked Amount			Recovery	=	99.96%	

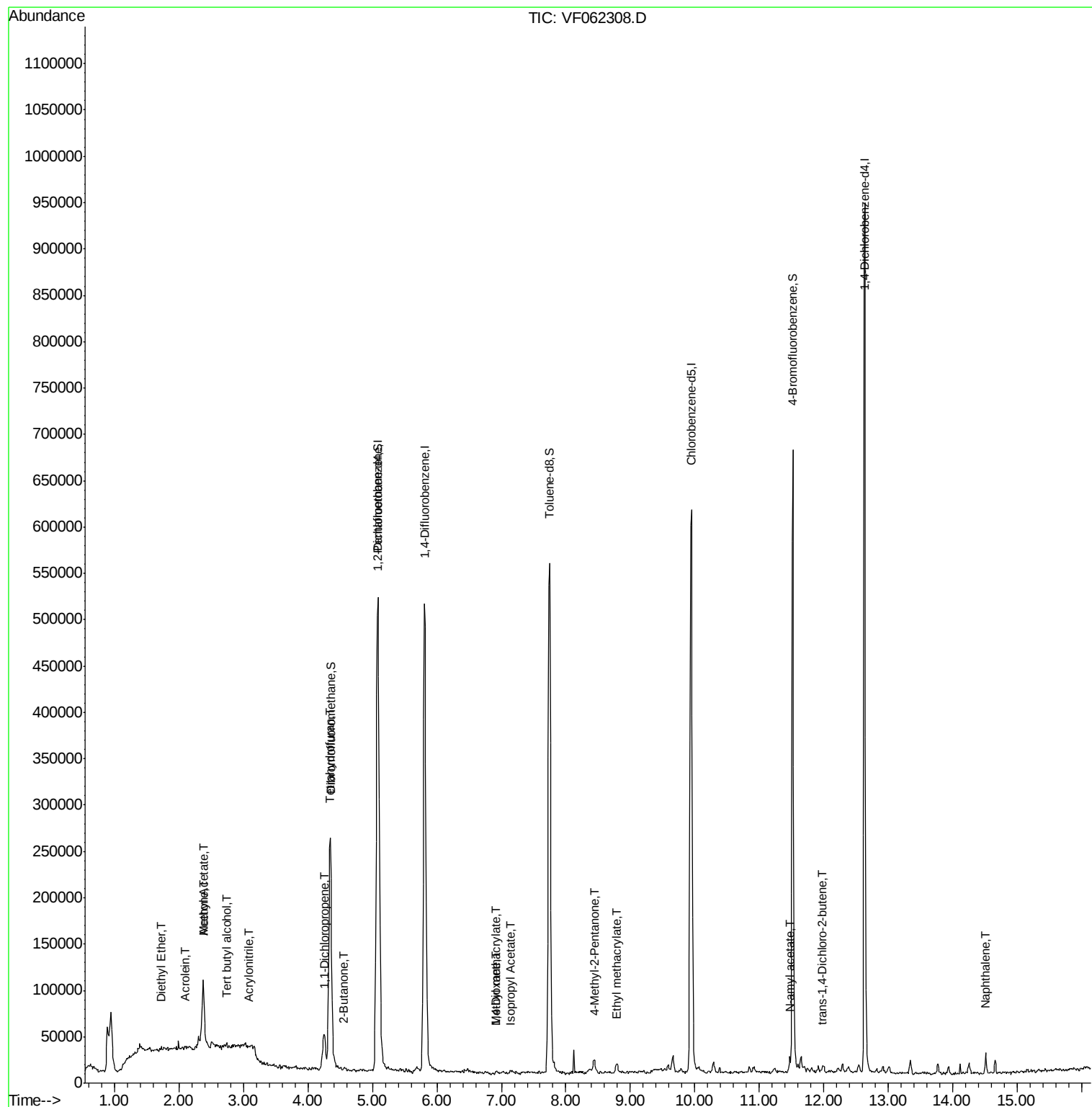
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.72	74	1511	1.293	ug/l	62
11) Tert butyl alcohol	2.74	59	3445	16.427	ug/l #	71
13) Acrolein	2.10	56	192	9.194	ug/l #	1
15) Acrylonitrile	3.10	53	677	1.166	ug/l #	11
16) Acetone	2.38	43	126597	163.092	ug/l	95
18) Methyl Acetate	2.38	43	126597	90.109	ug/l #	61
20) Methylene Chloride	2.35	84	5123	Below Cal	#	78
25) 2-Butanone	4.55	43	1309	1.064	ug/l #	82
29) Tetrahydrofuran	4.33	42	2144	3.964	ug/l #	43
36) 1,1-Dichloropropene	4.25	75	67724	12.072	ug/l #	44
43) Isopropyl Acetate	7.15	43	4977	1.854	ug/l #	85
48) Methyl methacrylate	6.91	41	1867	1.080	ug/l #	68
49) 1,4-Dioxane	6.92	88	321	16.122	ug/l #	1
51) 4-Methyl-2-Pentanone	8.44	43	14595	7.848	ug/l	99
56) Ethyl methacrylate	8.78	69	4934	2.022	ug/l #	66
74) N-amyl acetate	11.47	43	10231	2.357	ug/l #	91
81) trans-1,4-Dichloro-2-buten	11.97	75	1095	1.153	ug/l #	23
95) Naphthalene	14.51	128	15284	1.404	ug/l	98

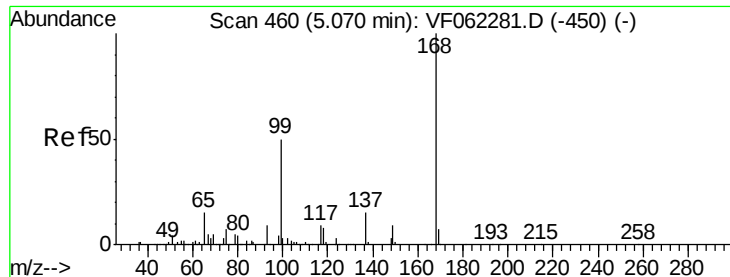
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 462

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

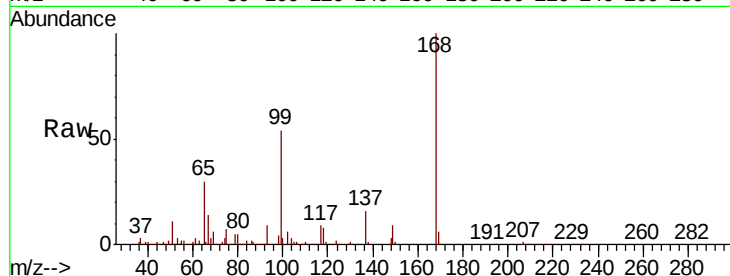
SSSI-0419-S-DH-6-B

Tot Ion:168 Resp: 428009

Ion Ratio Lower Upper

168 100

99 53.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.09

150000

100000

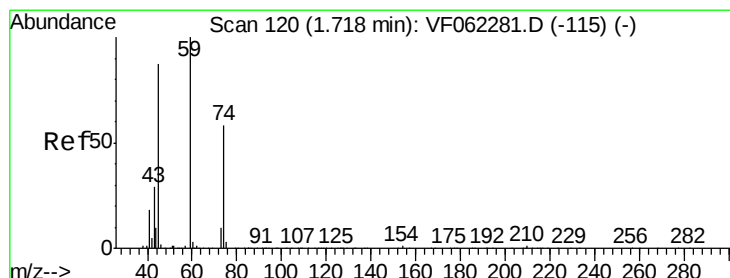
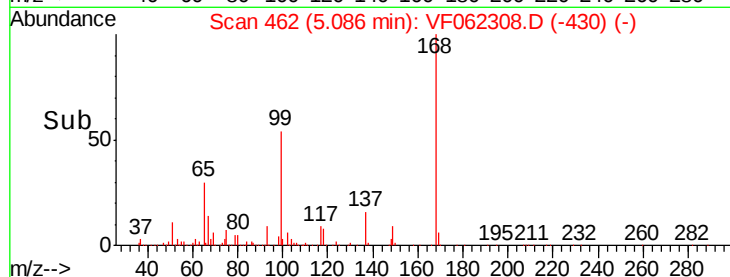
50000

0

Time-->

5.00

5.20



#8

Diethyl Ether

Concen: 1.293 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062308.D

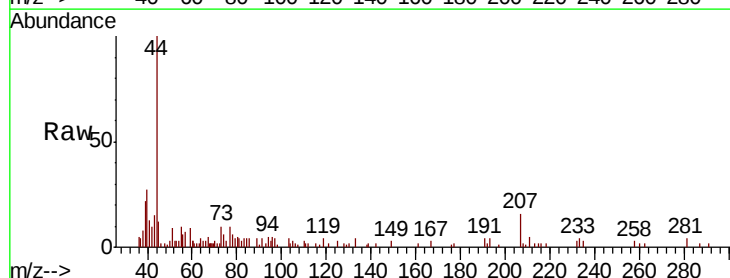
Acq: 26 Apr 2019 16:31

Tgt Ion: 74 Resp: 1511

Ion Ratio Lower Upper

74 100

45 100.3 74.0 222.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

1000

500

0

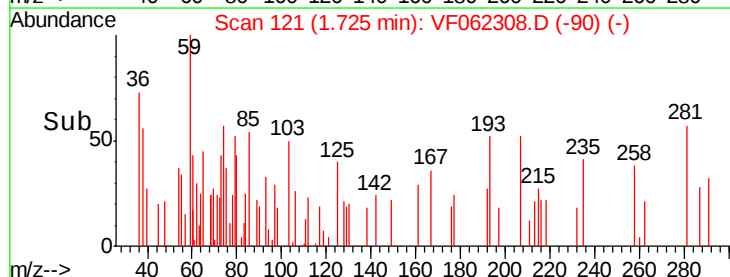
Time-->

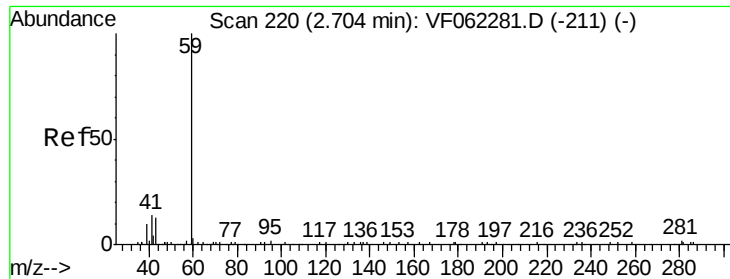
1.65

1.70

1.75

1.80



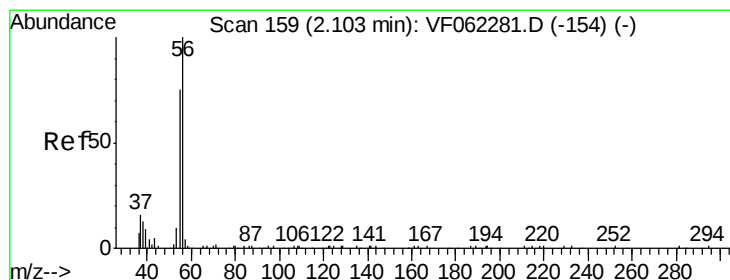
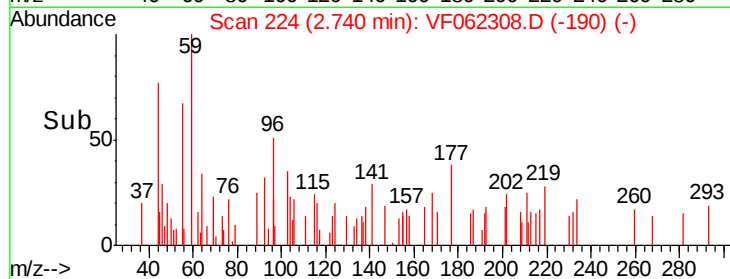
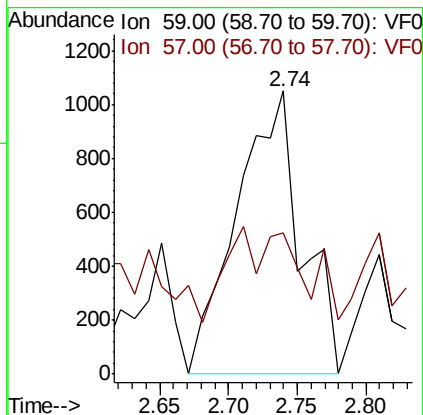
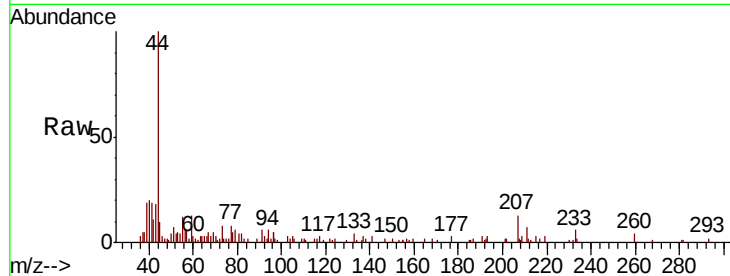


#11

Tert butyl alcohol
 Concen: 16.427 ug/l
 RT: 2.74 min Scan# 224
 Delta R.T. 0.04 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

Instrument :
 MSVOA_F
 ClientSampleId :
 SSSI-0419-S-DH-6-B

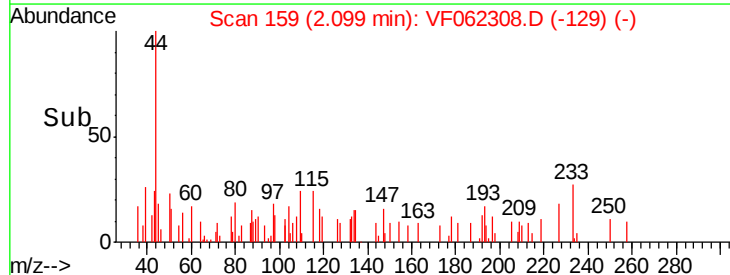
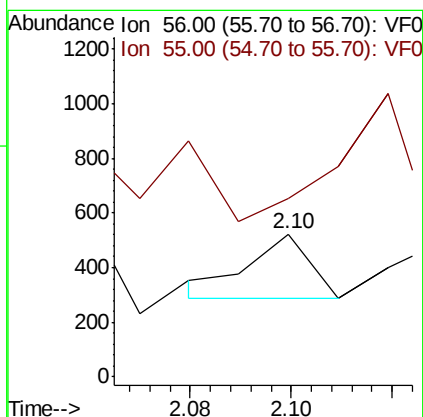
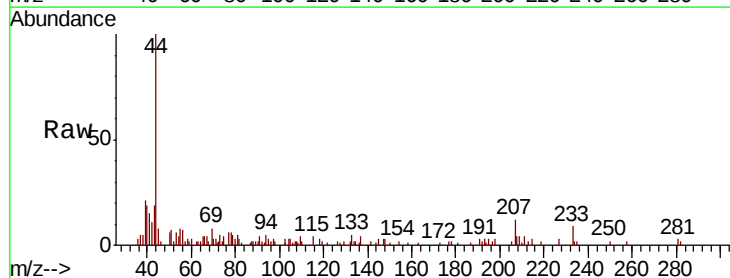
Tot Ion: 59 Resp: 3445
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

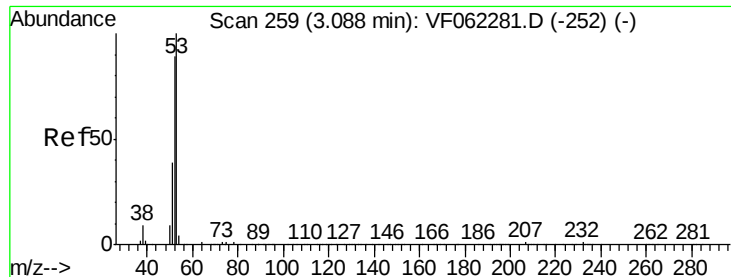


#13

Acrolein
 Concen: 9.194 ug/l
 RT: 2.10 min Scan# 159
 Delta R.T. -0.00 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

Tgt Ion: 56 Resp: 192
 Ion Ratio Lower Upper
 56 100
 55 307.8 62.3 93.5#





#15

Acrylonitrile

Concen: 1.166 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

SSSI-0419-S-DH-6-B

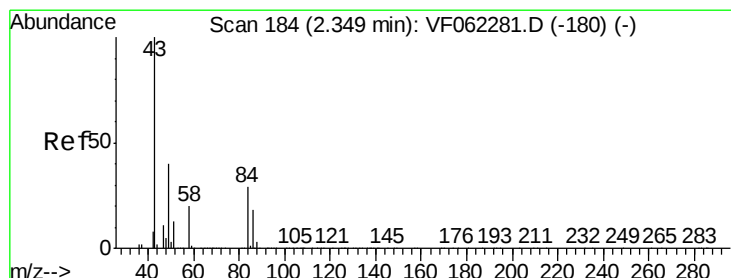
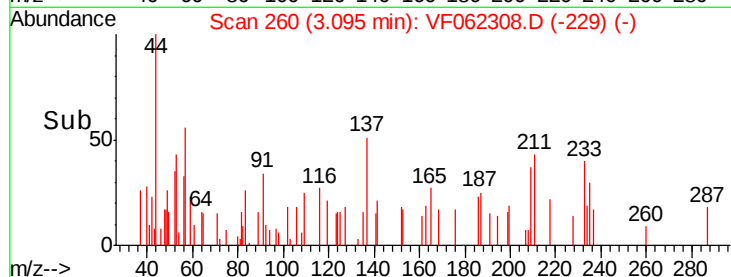
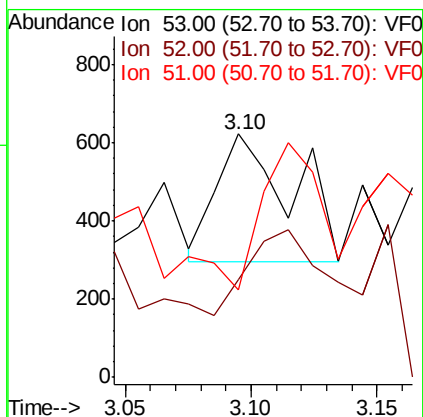
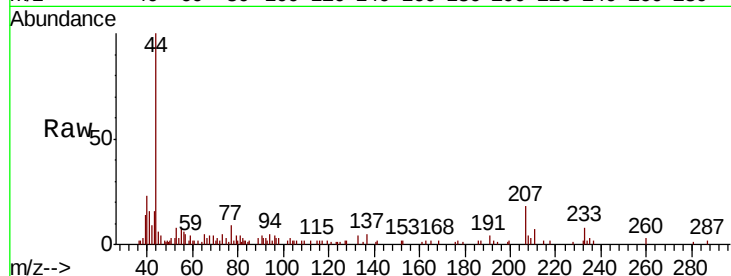
Tot Ion: 53 Resp: 677

Ion Ratio Lower Upper

53 100

52 0.0 70.6 105.8#

51 88.5 32.6 48.8#



#16

Acetone

Concen: 163.092 ug/l

RT: 2.38 min Scan# 187

Delta R.T. 0.03 min

Lab File: VF062308.D

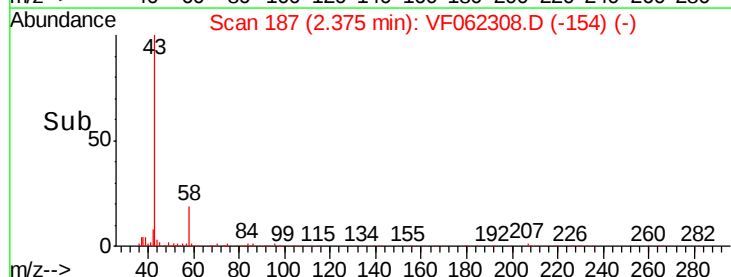
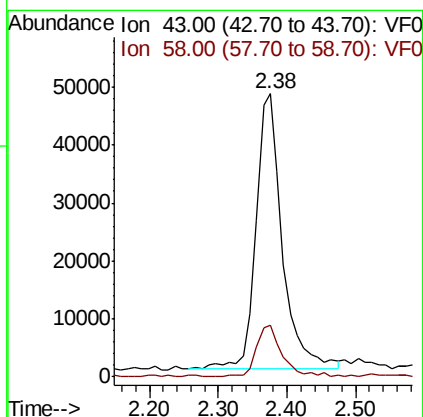
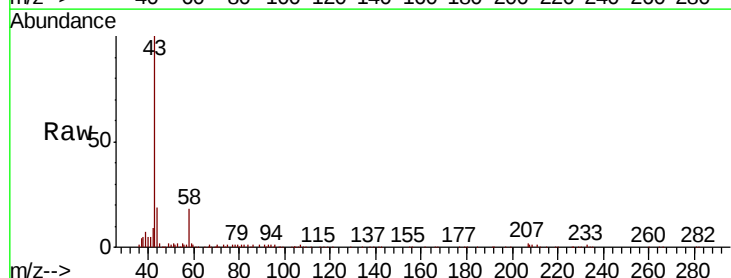
Acq: 26 Apr 2019 16:31

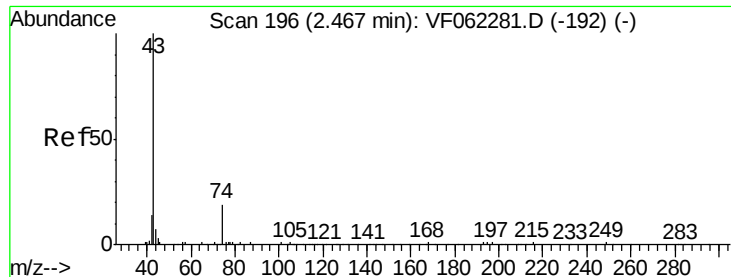
Tgt Ion: 43 Resp: 126597

Ion Ratio Lower Upper

43 100

58 18.2 16.4 24.6





#18

Methyl Acetate

Concen: 90.109 ug/l

RT: 2.38 min Scan# 187

Delta R.T. -0.09 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

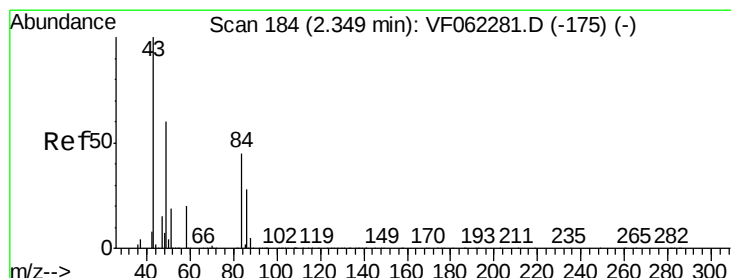
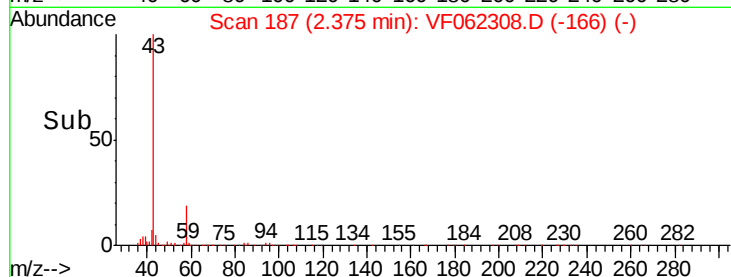
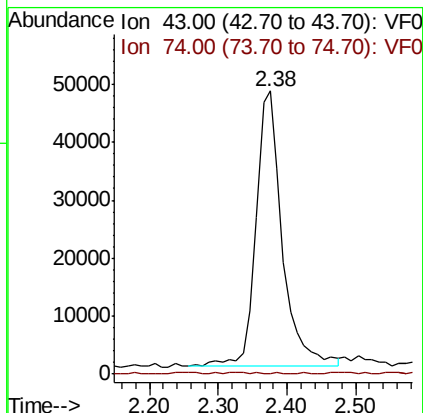
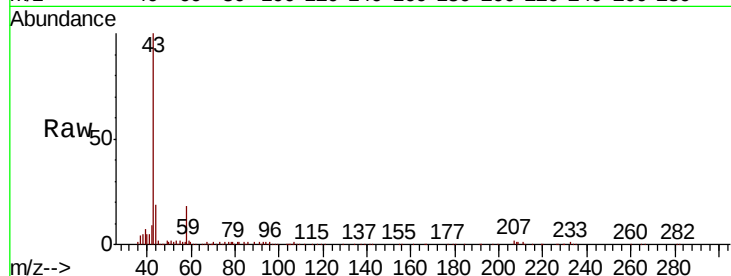
SSSI-0419-S-DH-6-B

Tot Ion: 43 Resp: 126597

Ion Ratio Lower Upper

43 100

74 0.8 14.4 21.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Tgt Ion: 84 Resp: 5123

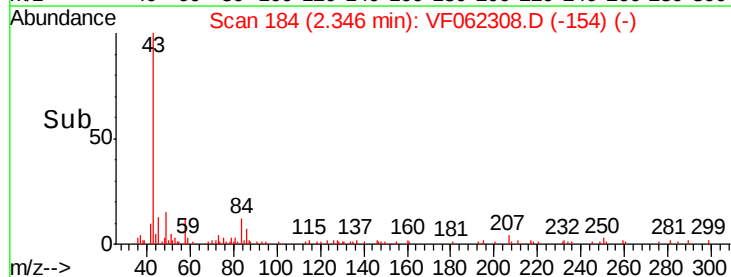
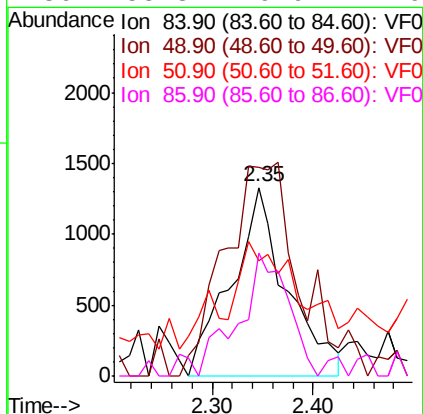
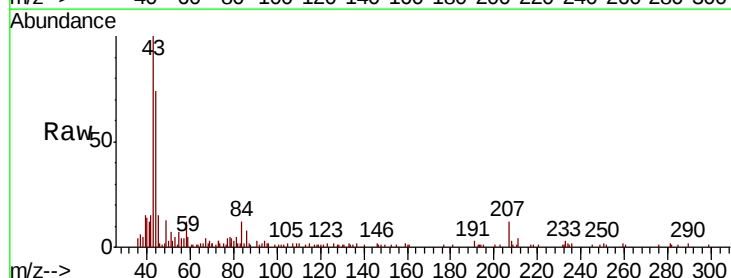
Ion Ratio Lower Upper

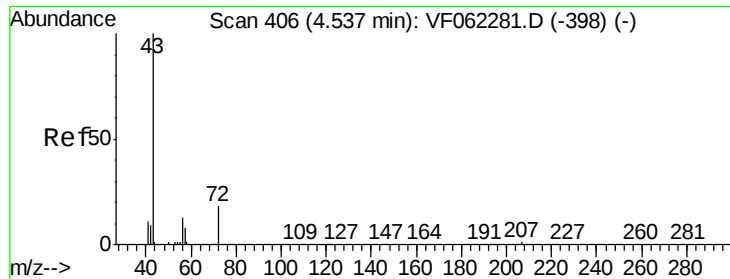
84 100

49 99.8 112.1 168.1#

51 39.9 35.9 53.9

86 55.3 49.9 74.9





#25

2-Butanone

Concen: 1.064 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

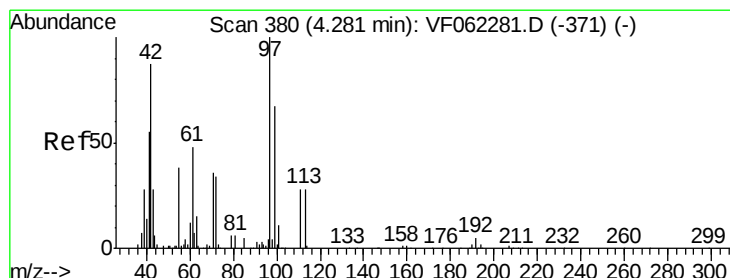
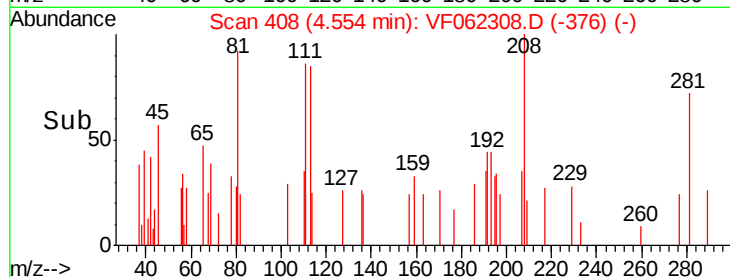
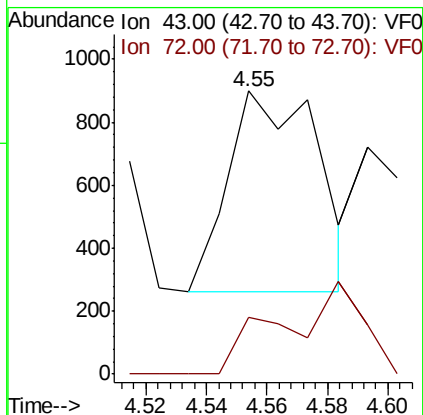
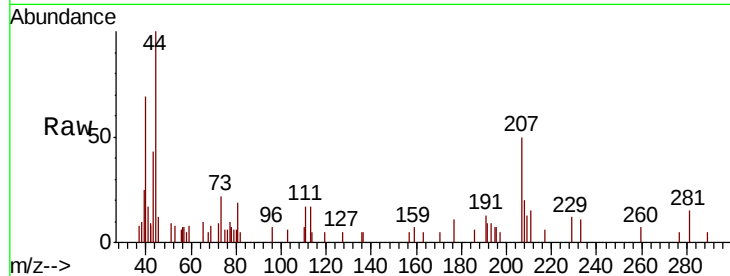
SSSI-0419-S-DH-6-B

Tot Ion: 43 Resp: 1309

Ion Ratio Lower Upper

43 100

72 28.1 15.8 23.6#



#29

Tetrahydrofuran

Concen: 3.964 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.05 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

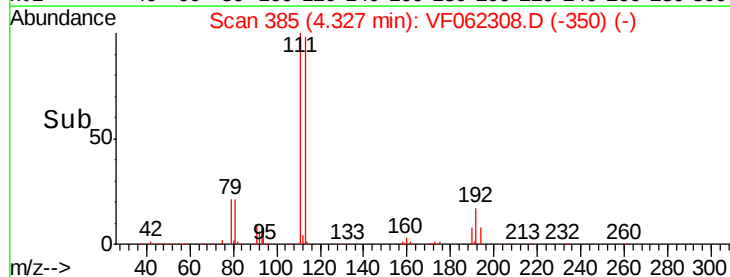
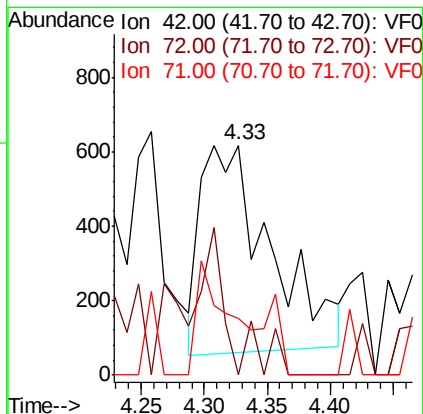
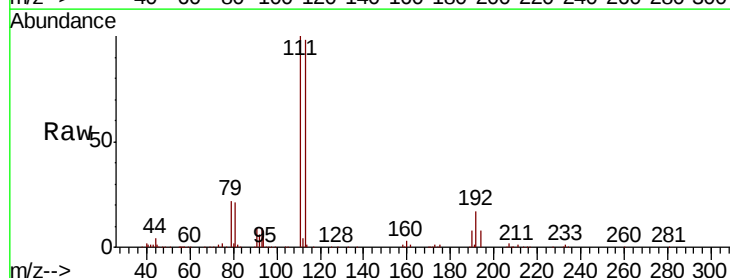
Tgt Ion: 42 Resp: 2144

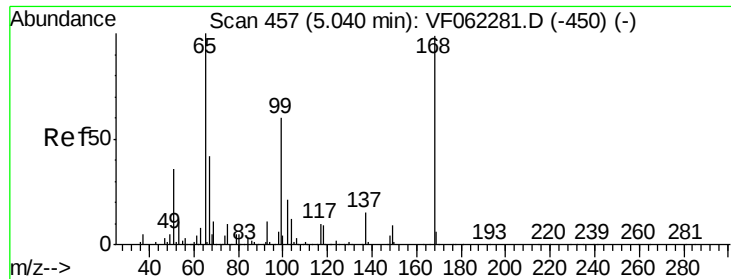
Ion Ratio Lower Upper

42 100

72 7.5 29.3 43.9#

71 0.0 31.2 46.8#





#33

1,2-Dichloroethane-d4

Concen: 59.594 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

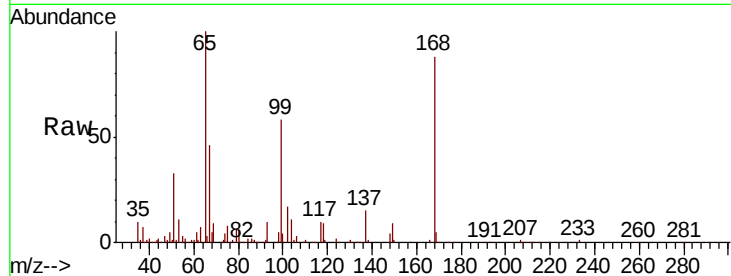
SSSI-0419-S-DH-6-B

Tot Ion: 65 Resp: 206609

Ion Ratio Lower Upper

65 100

67 47.3 0.0 98.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.07

80000

60000

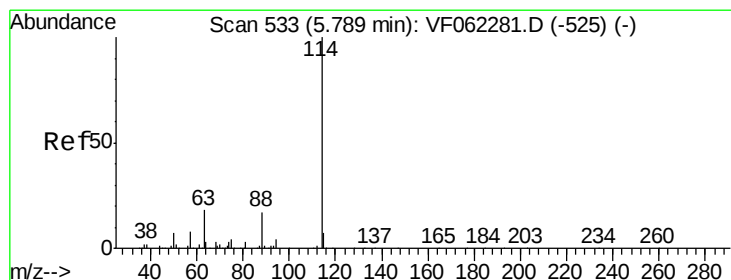
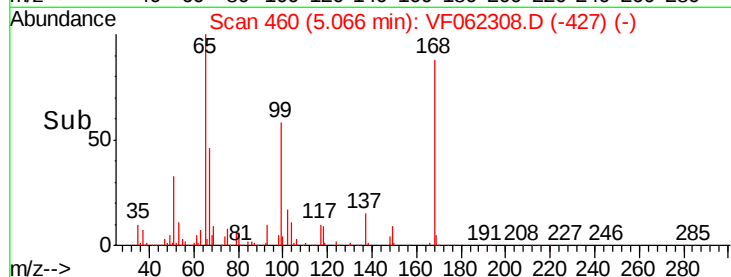
40000

20000

0

5.00 5.20 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.81 min Scan# 535

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

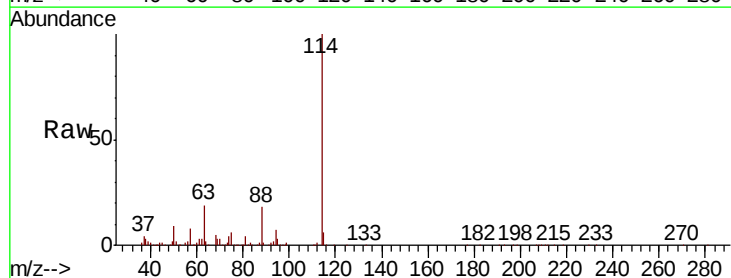
Tgt Ion: 114 Resp: 608088

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.6

88 18.2 0.0 34.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

300000

250000

200000

150000

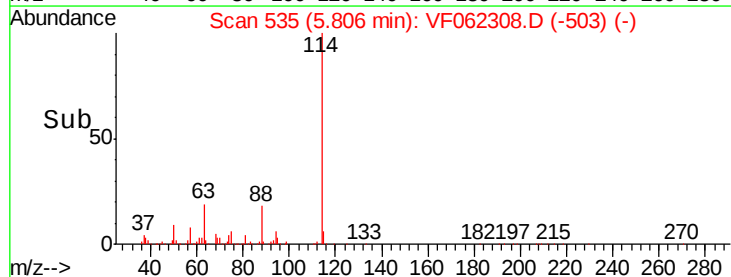
100000

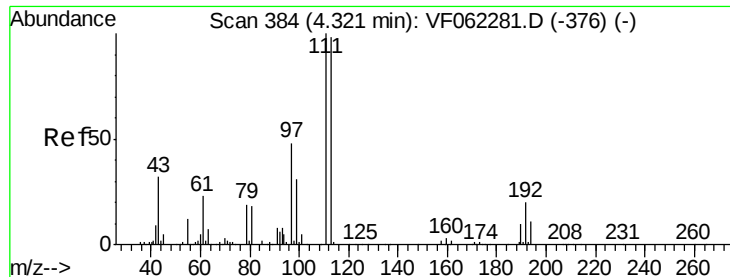
50000

0

5.60 5.80 6.00

Time-->

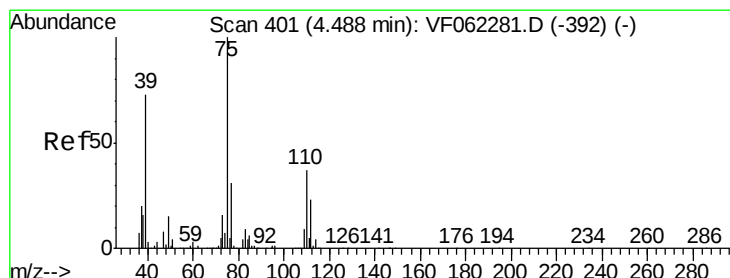
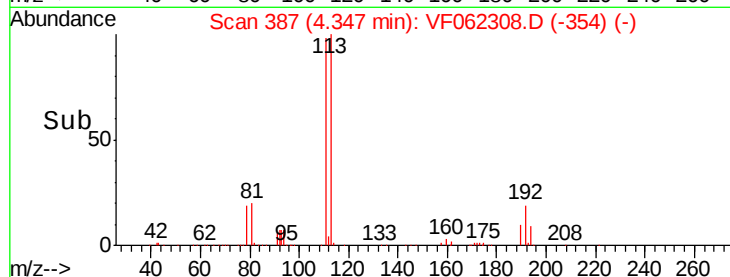
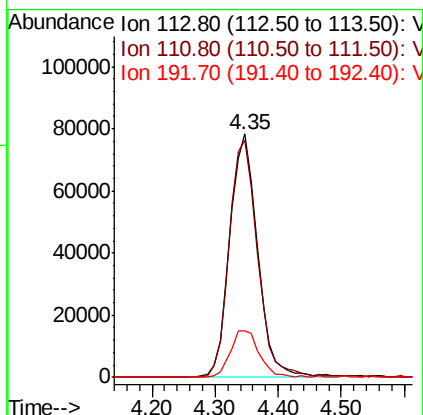
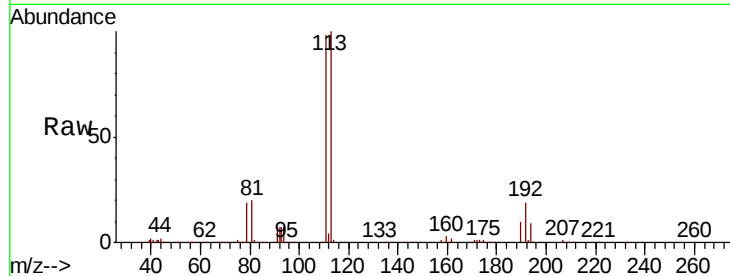




#35
 Dibromofluoromethane
 Concen: 53.068 ug/l
 RT: 4.35 min Scan# 387
 Delta R.T. 0.03 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

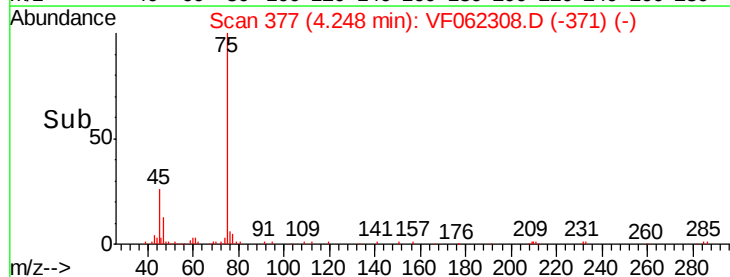
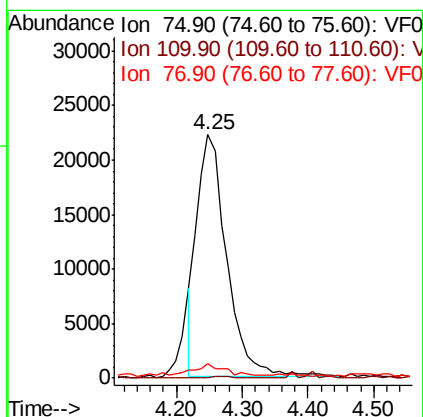
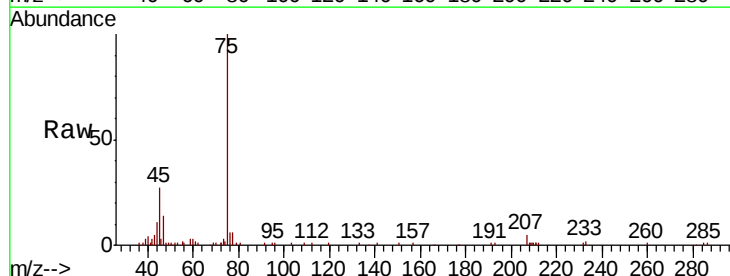
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 SSSI-0419-S-DH-6-B

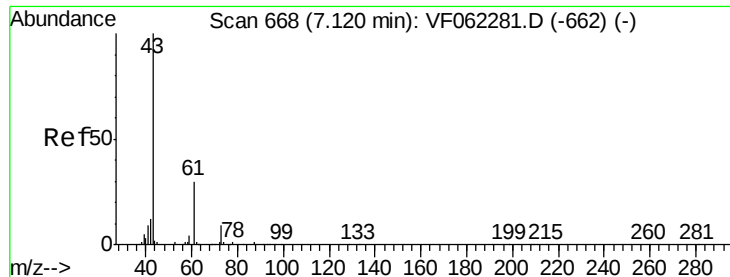
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.7	81.4	122.2
192	20.0	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 12.072 ug/l
 RT: 4.25 min Scan# 377
 Delta R.T. -0.24 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	3.7	24.6	36.8#



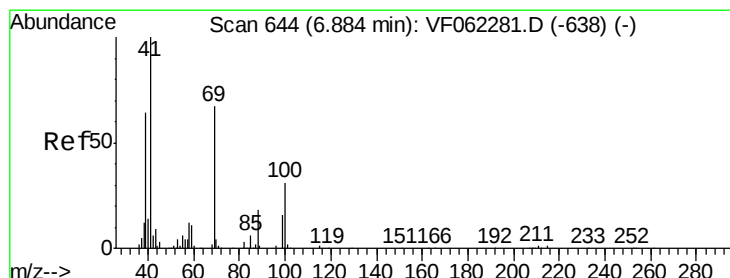
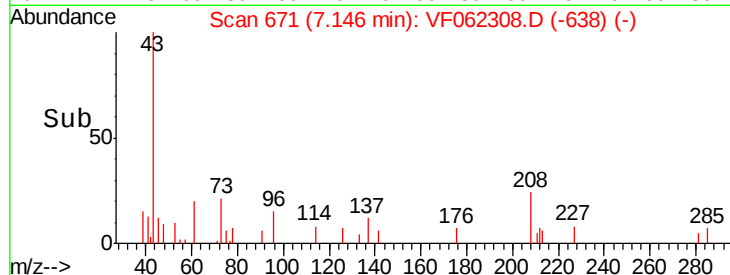
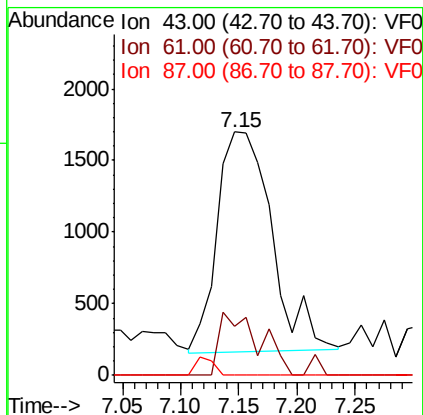
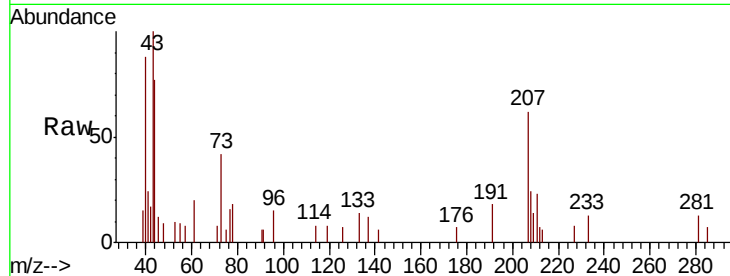


#43

Isopropyl Acetate
 Concen: 1.854 ug/l
 RT: 7.15 min Scan# 671
 Delta R.T. 0.03 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

Instrument :
 MSVOA_F
 ClientSampleId :
 SSSI-0419-S-DH-6-B

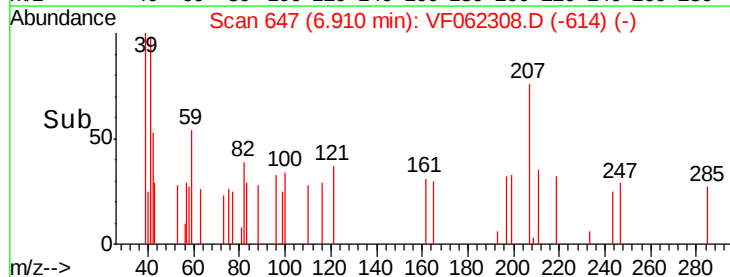
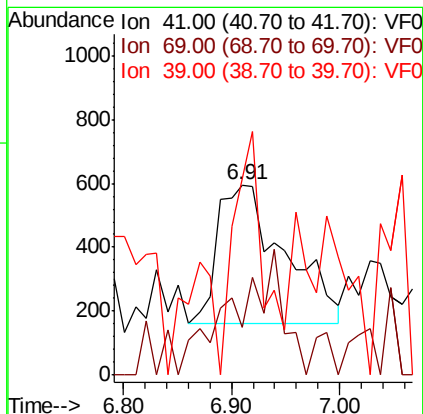
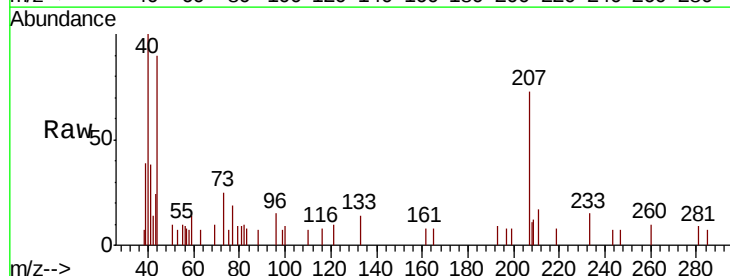
Tot Ion: 43 Resp: 4977
 Ion Ratio Lower Upper
 43 100
 61 21.3 23.8 35.6#
 87 0.0 0.5 0.7#

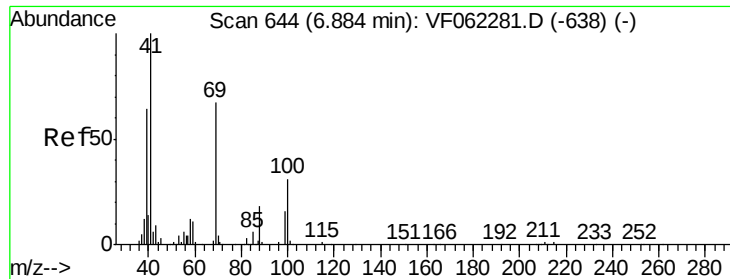


#48

Methyl methacrylate
 Concen: 1.080 ug/l
 RT: 6.91 min Scan# 647
 Delta R.T. 0.03 min
 Lab File: VF062308.D
 Acq: 26 Apr 2019 16:31

Tgt Ion: 41 Resp: 1867
 Ion Ratio Lower Upper
 41 100
 69 30.3 53.4 80.2#
 39 77.9 50.9 76.3#

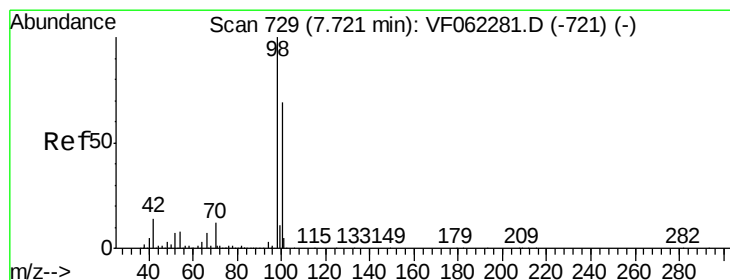
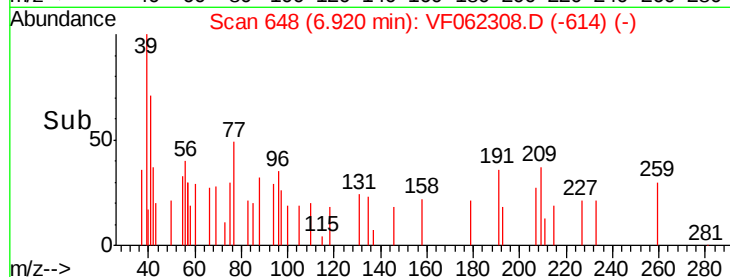
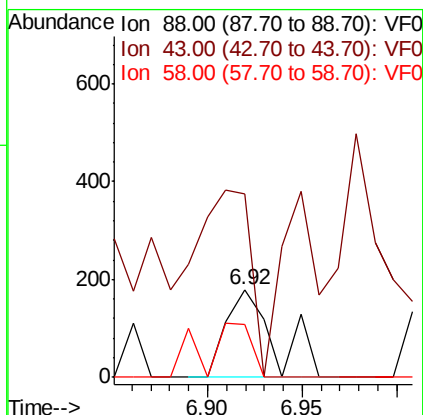
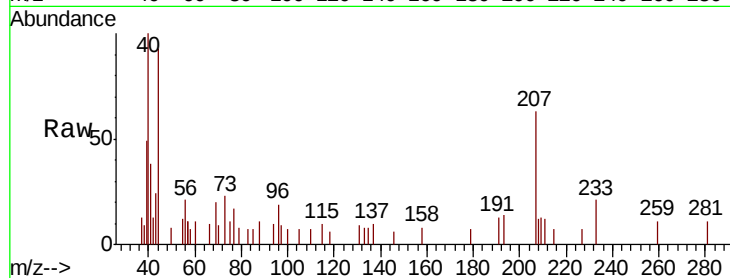




#49
1,4-Dioxane
Concen: 16.122 ug/l
RT: 6.92 min Scan# 648
Delta R.T. 0.04 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

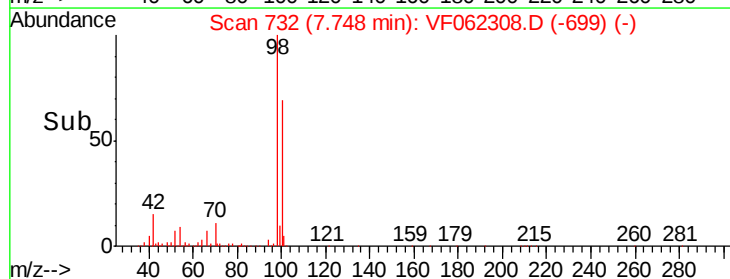
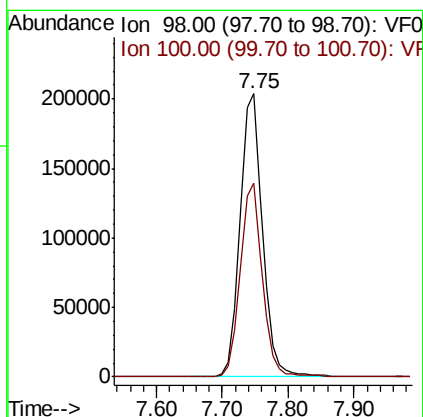
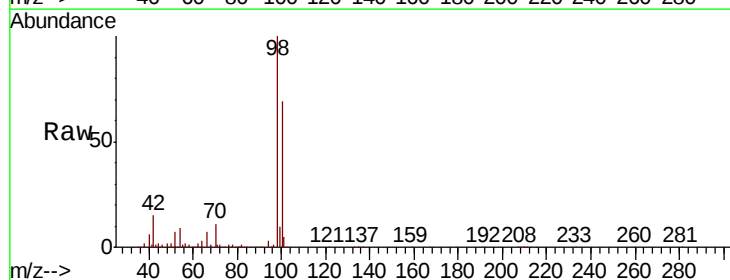
Instrument :
MSVOA_F
ClientSampleId :
SSSI-0419-S-DH-6-B

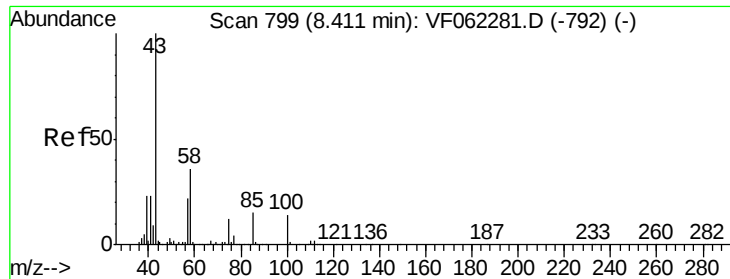
Tot Ion: 88 Resp: 321
Ion Ratio Lower Upper
88 100
43 242.1 34.2 51.4#
58 58.9 50.7 76.1



#50
Toluene-d8
Concen: 44.480 ug/l
RT: 7.75 min Scan# 732
Delta R.T. 0.03 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

Tgt Ion: 98 Resp: 489856
Ion Ratio Lower Upper
98 100
100 67.6 54.4 81.6





#51

4-Methyl-2-Pentanone

Concen: 7.848 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

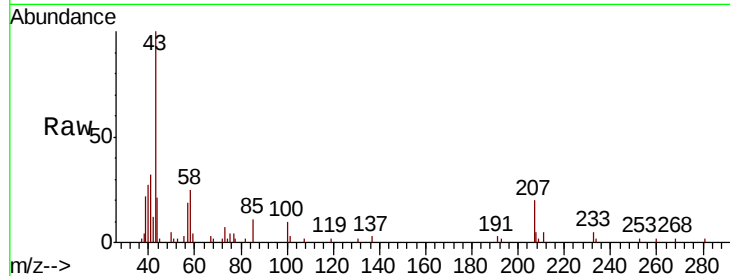
SSSI-0419-S-DH-6-B

Tot Ion: 43 Resp: 14595

Ion Ratio Lower Upper

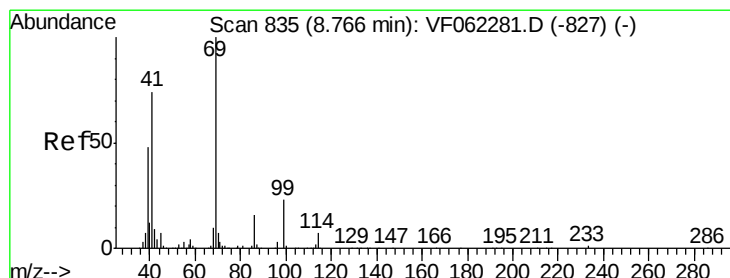
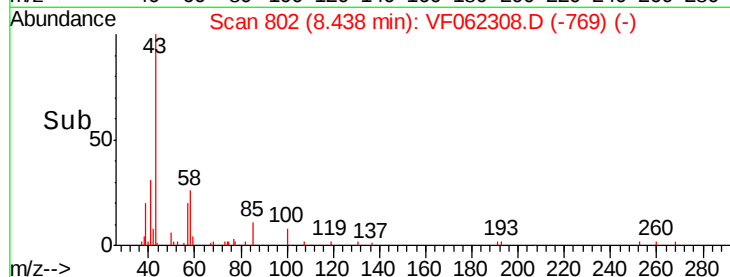
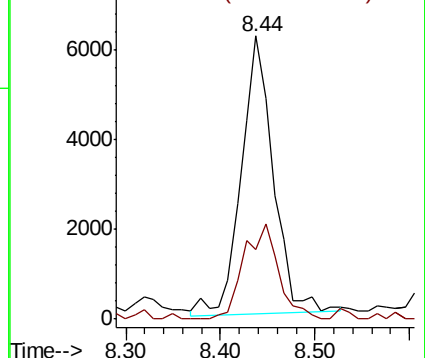
43 100

58 37.1 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 2.022 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

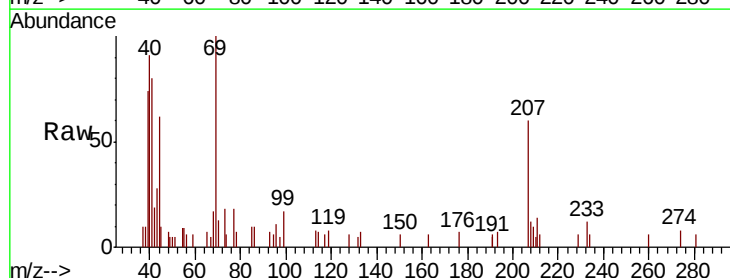
Tgt Ion: 69 Resp: 4934

Ion Ratio Lower Upper

69 100

41 103.2 61.5 92.3#

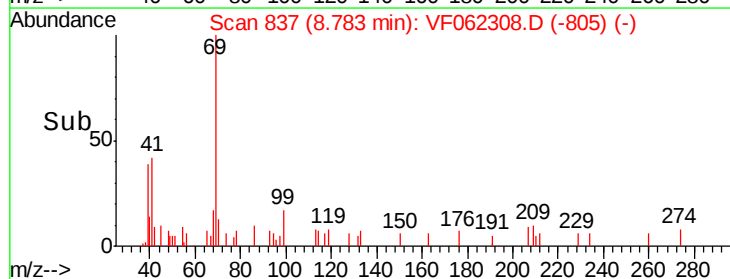
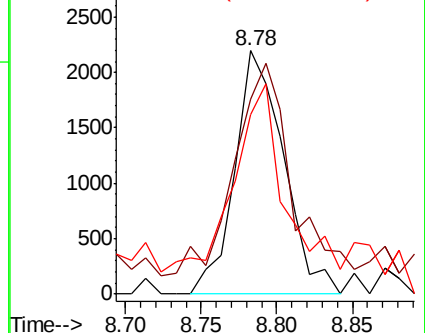
39 73.5 37.9 56.9#

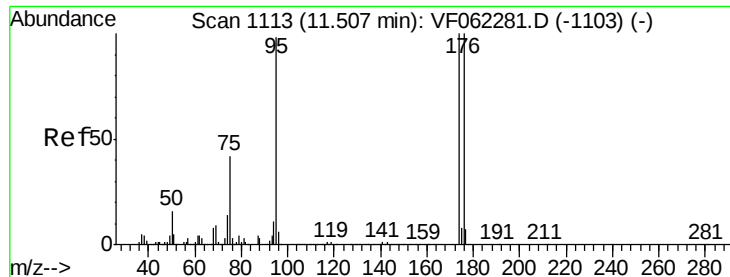


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

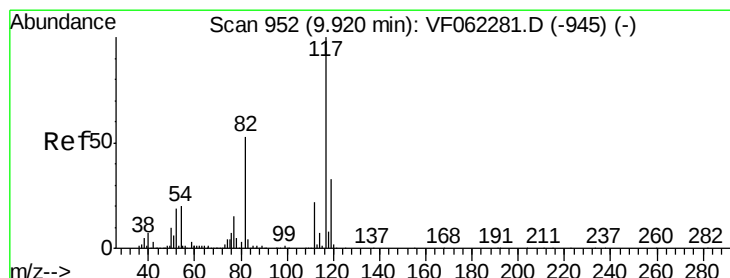
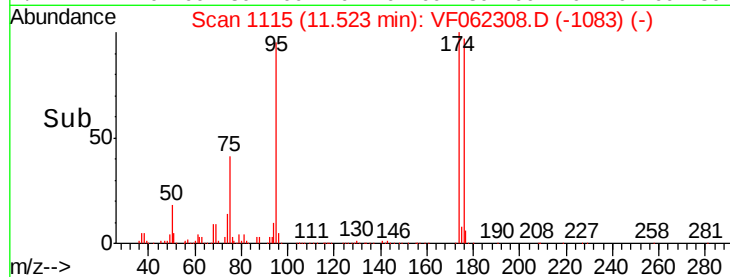
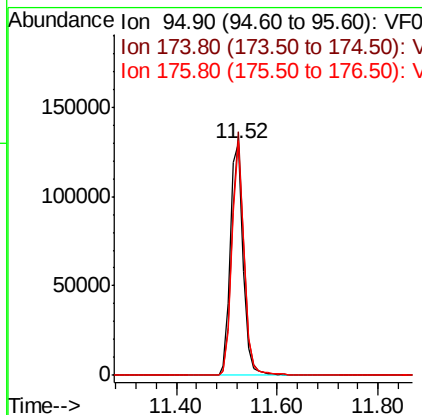
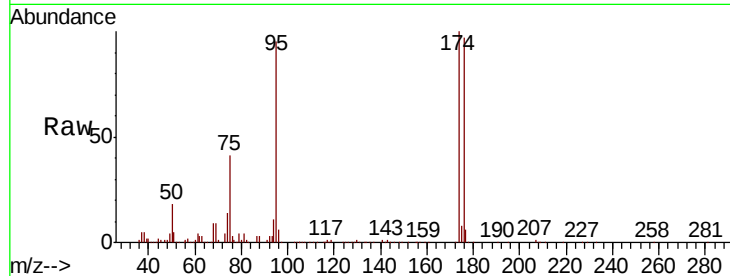




#62
4-Bromofluorobenzene
Concen: 49.983 ug/l
RT: 11.52 min Scan# 1115
Delta R.T. 0.02 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

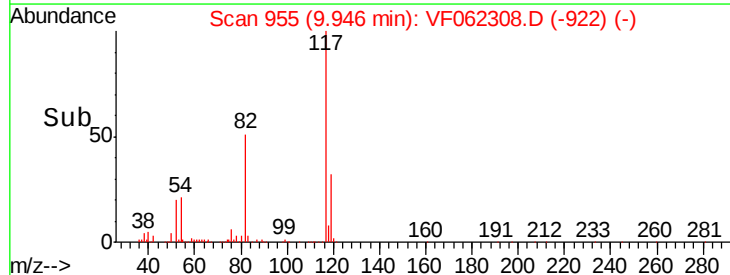
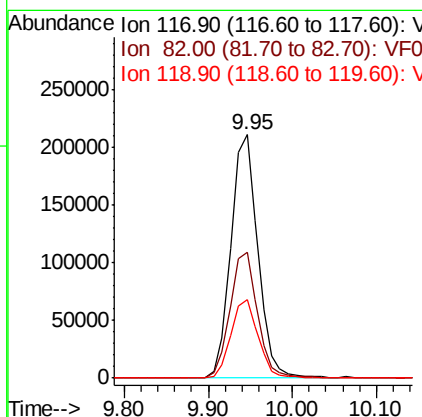
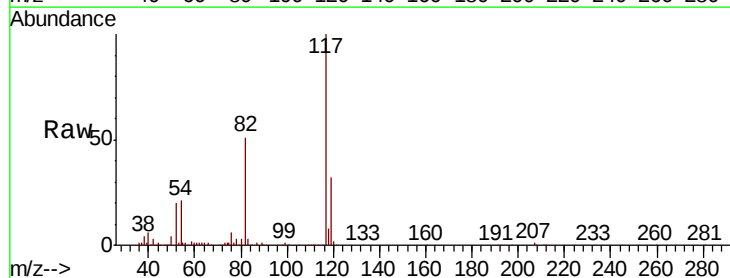
Instrument :
MSVOA_F
ClientSampleId :
SSSI-0419-S-DH-6-B

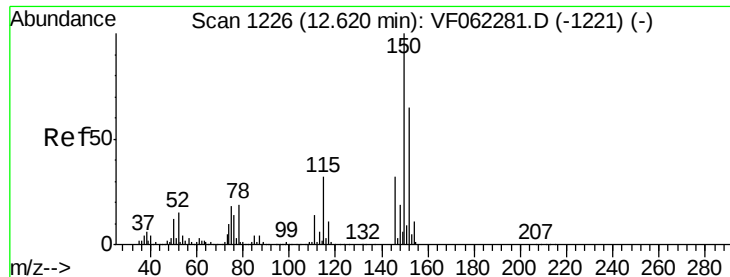
Tot Ion	95	Resp	226889
Ion Ratio	Lower	Upper	
95	100		
174	96.3	0.0	185.2
176	94.5	0.0	184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.03 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

Tgt Ion	117	Resp	472303
Ion Ratio	Lower	Upper	
117	100		
82	51.5	42.6	64.0
119	32.0	26.1	39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Instrument :

MSVOA_F

ClientSampleId :

SSSI-0419-S-DH-6-B

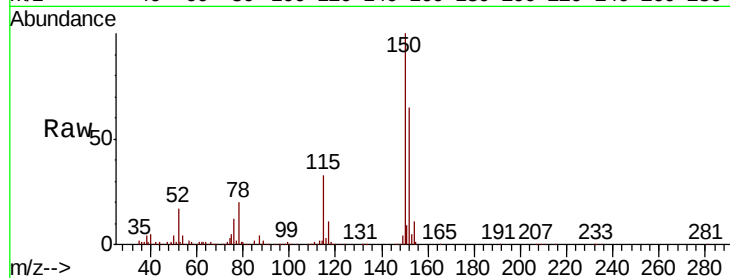
Tot Ion:152 Resp: 275017

Ion Ratio Lower Upper

152 100

115 53.1 25.6 76.8

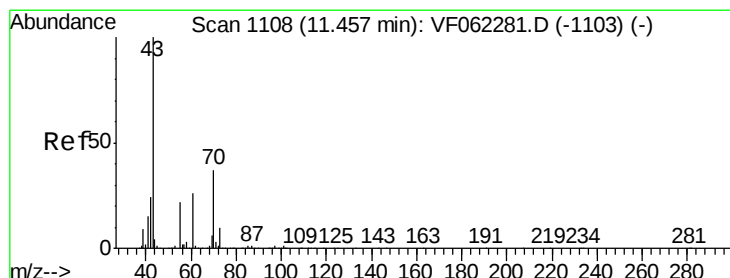
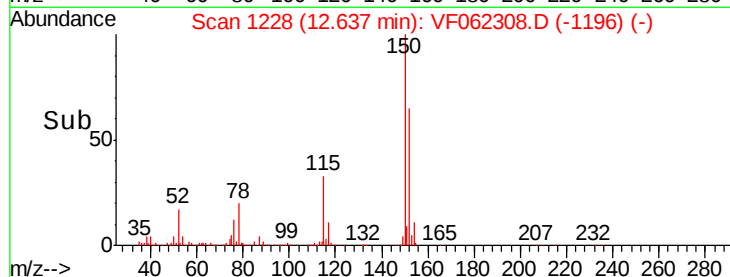
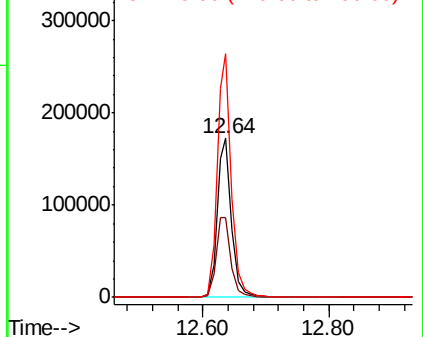
150 152.1 0.0 330.6



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: 2.357 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.02 min

Lab File: VF062308.D

Acq: 26 Apr 2019 16:31

Tgt Ion: 43 Resp: 10231

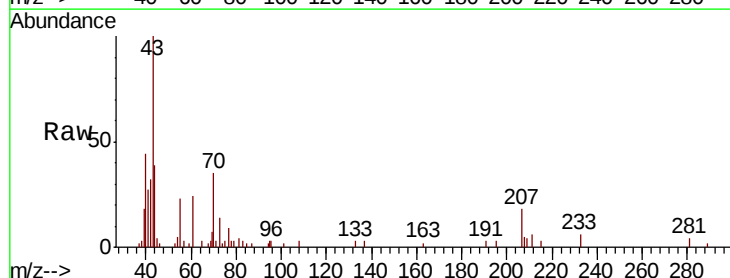
Ion Ratio Lower Upper

43 100

70 28.2 27.8 41.8

55 25.8 16.6 24.8#

61 22.2 20.0 30.0

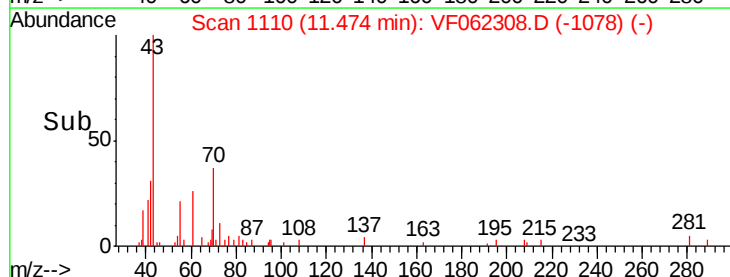
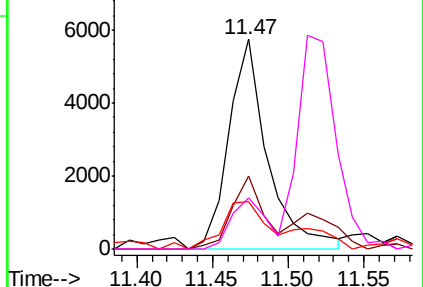


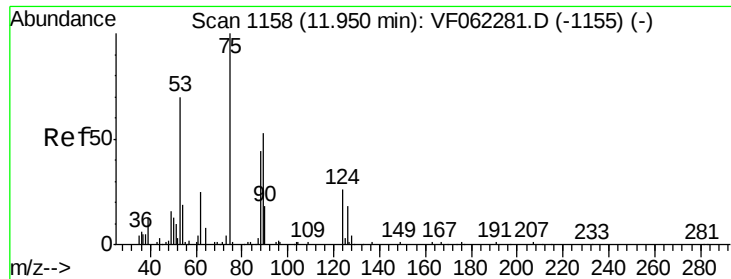
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

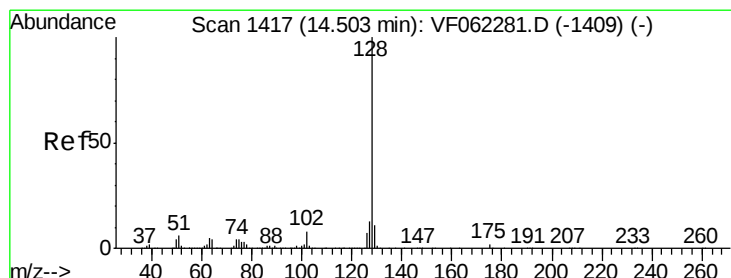
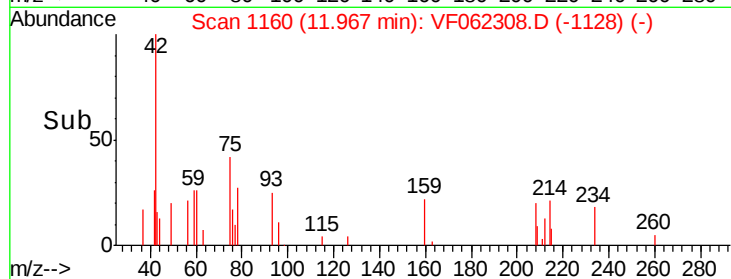
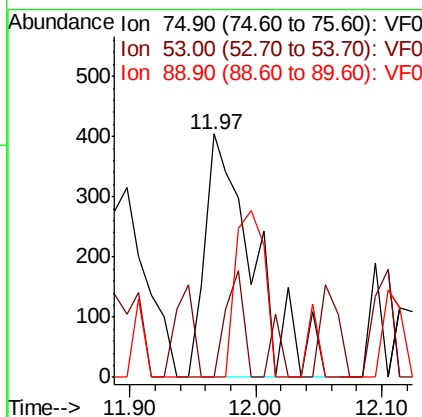
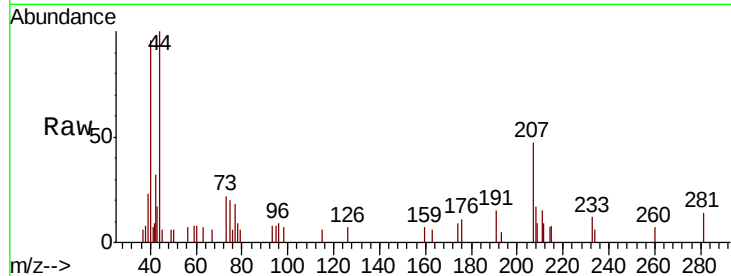




#81
trans-1,4-Dichloro-2-butene
Concen: 1.153 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. 0.02 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

Instrument :
MSVOA_F
ClientSampleId :
SSSI-0419-S-DH-6-B

Tot Ion: 75 Resp: 1095
Ion Ratio Lower Upper
75 100
53 14.3 67.1 100.7#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.404 ug/l
RT: 14.51 min Scan# 1418
Delta R.T. 0.01 min
Lab File: VF062308.D
Acq: 26 Apr 2019 16:31

Tgt Ion: 128 Resp: 15284
Ion Ratio Lower Upper
128 100
127 13.7 10.2 15.4
129 12.0 8.9 13.3

