

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061942.D
 Acq On : 14 Mar 2019 16:54
 Operator : VA/AP
 Sample : K1922-01
 Misc : 6.53g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ORG-031419

Quant Time: Mar 15 01:17:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	270	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	565	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	166	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.39	152	66	50.00	ug/l	-0.16

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.90	65	61	31.02	ug/l	0.05
Spiked Amount	50.000		Recovery	=	62.04%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.54	98	530	45.22	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	90.44%	
62) 4-Bromofluorobenzene	11.41	95	112	24.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	48.80%	

Target Compounds

						Qvalue
3) Chloromethane	1.08	50	306	95.252	ug/l #	45
4) Vinyl Chloride	1.24	62	87	28.528	ug/l #	1
5) Bromomethane	1.33	94	496	238.651	ug/l #	3
6) Chloroethane	1.49	64	62	42.770	ug/l #	1
8) Diethyl Ether	1.65	74	67	79.104	ug/l	54
9) 1,1,2-Trichlorotrifluoroet	1.91	101	62	24.512	ug/l #	21
10) Methyl Iodide	1.97	142	67	13.920	ug/l #	1
11) Tert butyl alcohol	2.58	59	86	770.586	ug/l #	1
12) 1,1-Dichloroethene	1.78	96	237	102.635	ug/l #	1
13) Acrolein	2.04	56	451	3189.217	ug/l	86
14) Allyl chloride	2.05	41	776	305.041	ug/l #	74
15) Acrylonitrile	2.96	53	632	1778.407	ug/l #	5
16) Acetone	2.25	43	1369	3323.822	ug/l #	88
17) Carbon Disulfide	1.87	76	86	11.965	ug/l #	1
18) Methyl Acetate	2.35	43	3692	904.194	ug/l #	62
19) Methyl tert-butyl Ether	2.43	73	218	55.807	ug/l #	1
20) Methylene Chloride	2.18	84	110	47.855	ug/l #	10
21) trans-1,2-Dichloroethene	2.32	96	159	73.161	ug/l #	1
22) Diisopropyl ether	2.82	45	661	99.888	ug/l #	37
23) Vinyl Acetate	3.19	43	839	283.809	ug/l #	76
24) 1,1-Dichloroethane	2.89	63	78	19.720	ug/l #	85
25) 2-Butanone	4.31	43	1091	1302.233	ug/l #	56
26) 2,2-Dichloropropane	3.60	77	78	44.176	ug/l #	55
29) Tetrahydrofuran	4.05	42	172	476.040	ug/l #	33
31) Cyclohexane	3.71	56	445	107.416	ug/l #	15
32) 1,1,1-Trichloroethane	4.19	97	61	21.905	ug/l #	22
36) 1,1-Dichloropropene	4.19	75	66	12.366	ug/l #	41
37) Ethyl Acetate	4.16	43	300	133.920	ug/l #	20
39) Methylcyclohexane	5.46	83	2611	414.191	ug/l #	59
40) Benzene	4.63	78	144	10.322	ug/l #	51
41) Methacrylonitrile	4.74	41	260	211.839	ug/l #	46
43) Isopropyl Acetate	6.95	43	183	66.272	ug/l #	42
45) 1,2-Dichloropropane	6.25	63	61	18.388	ug/l #	45
46) Dibromomethane	6.07	93	62	29.696	ug/l #	2

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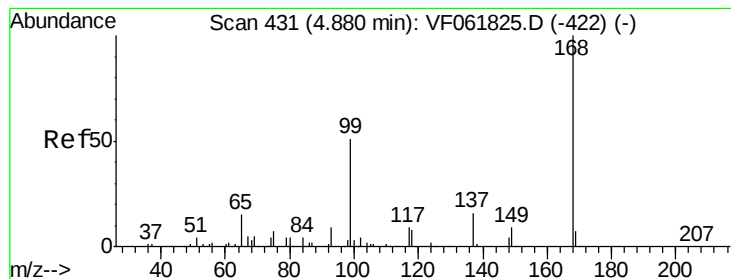
Instrument :
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Quant Time: Mar 15 01:17:59 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

47) Bromodichloromethane	6.42	83	91	19.729	ug/l #	56
48) Methyl methacrylate	6.75	41	533	304.992	ug/l #	18
51) 4-Methyl-2-Pentanone	8.28	43	2218	1162.189	ug/l #	35
52) Toluene	7.61	92	70	8.482	ug/l	97
55) 1,1,2-Trichloroethane	8.37	97	252	105.979	ug/l #	44
56) Ethyl methacrylate	8.62	69	1984	740.354	ug/l #	82
57) 1,3-Dichloropropane	8.96	76	68	17.487	ug/l #	43
59) 2-Hexanone	9.46	43	104	75.538	ug/l #	22
68) m/p-Xylenes	10.18	106	75	37.037	ug/l #	1
74) N-amyl acetate	11.41	43	211	201.714	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	11.79	83	70	92.693	ug/l #	23
76) 1,2,3-Trichloropropane	11.69	75	72	139.693	ug/l #	39
78) n-propylbenzene	11.71	91	88	17.150	ug/l #	54
79) 2-Chlorotoluene	11.71	91	88	29.997	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.83	105	66	18.092	ug/l #	24
81) trans-1,4-Dichloro-2-buten	12.00	75	92	390.354	ug/l #	18
82) 4-Chlorotoluene	11.82	91	69	22.995	ug/l #	41
86) p-Isopropyltoluene	12.35	119	62	14.469	ug/l #	50
89) n-Butylbenzene	12.88	91	89	21.734	ug/l #	26
92) 1,2-Dibromo-3-Chloropropan	13.78	75	65	462.082	ug/l #	1
95) Naphthalene	14.44	128	65	26.461	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

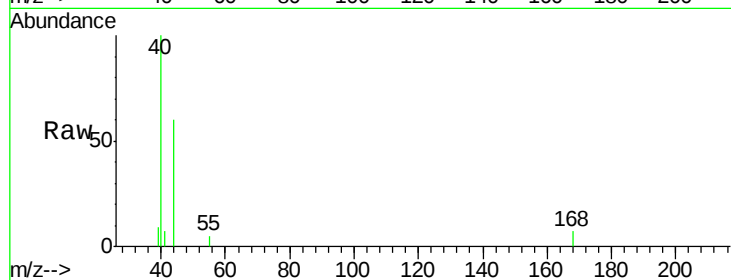
ORG-031419

Tot Ion:168 Resp: 270

Ion Ratio Lower Upper

168 100

99 0.0 40.8 61.2#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

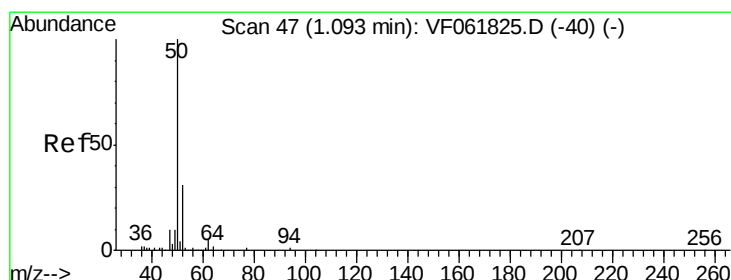
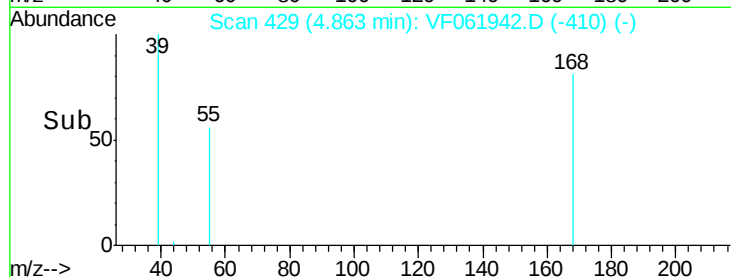
150

100

50

0

Time-->



#3

Chloromethane

Concen: 95.252 ug/l

RT: 1.08 min Scan# 45

Delta R.T. -0.02 min

Lab File: VF061942.D

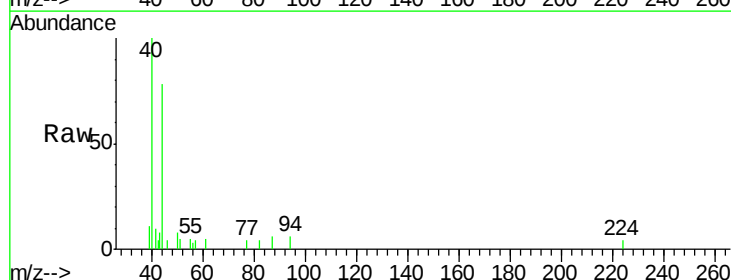
Acq: 14 Mar 2019 16:54

Tgt Ion: 50 Resp: 306

Ion Ratio Lower Upper

50 100

52 0.0 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

300

250

200

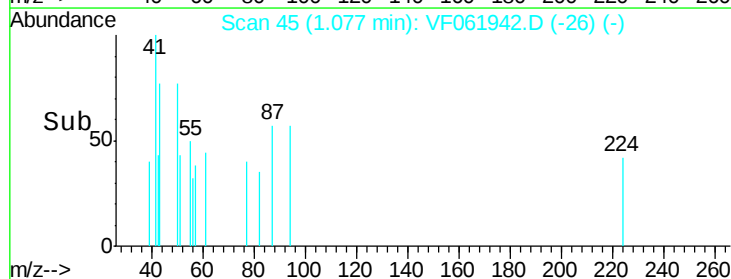
150

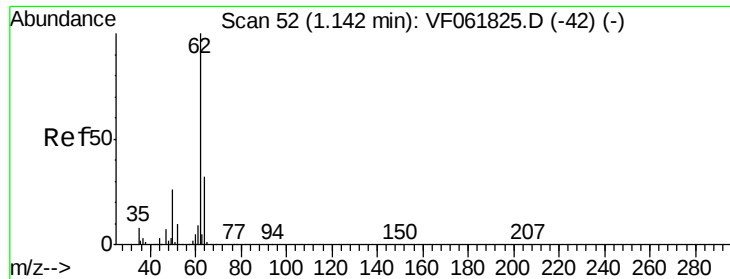
100

50

0

Time-->





#4

Vinyl Chloride

Concen: 28.528 ug/l

RT: 1.24 min Scan# 62

Delta R.T. 0.10 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

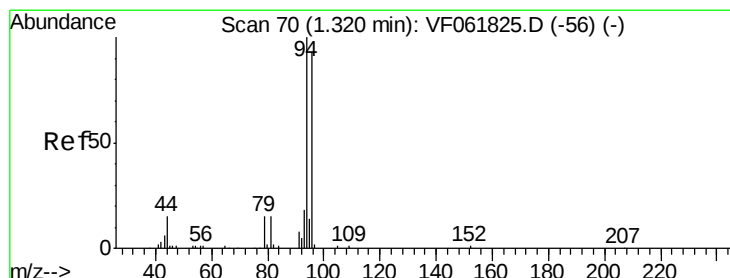
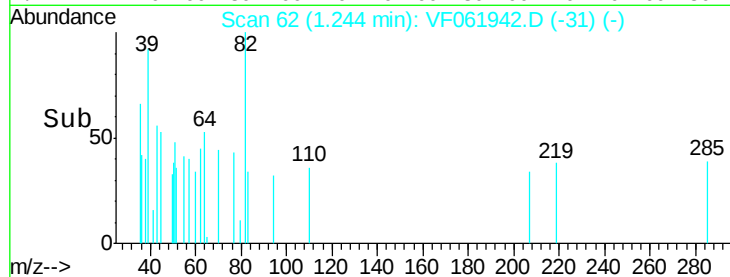
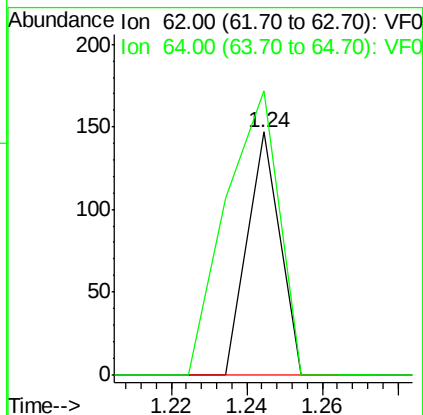
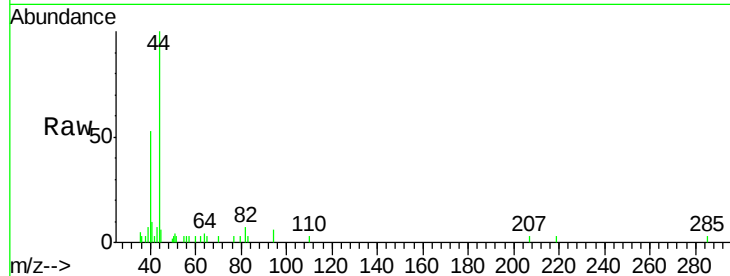
ORG-031419

Tot Ion: 62 Resp: 87

Ion Ratio Lower Upper

62 100

64 117.0 25.2 37.8#



#5

Bromomethane

Concen: 238.651 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061942.D

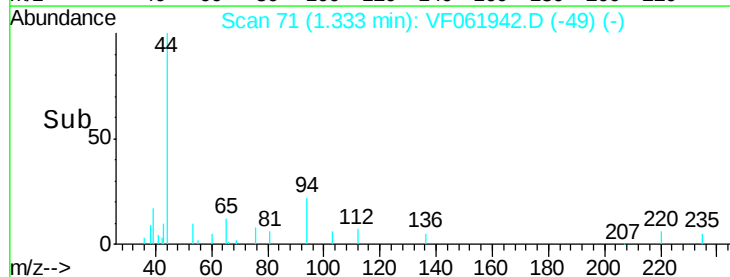
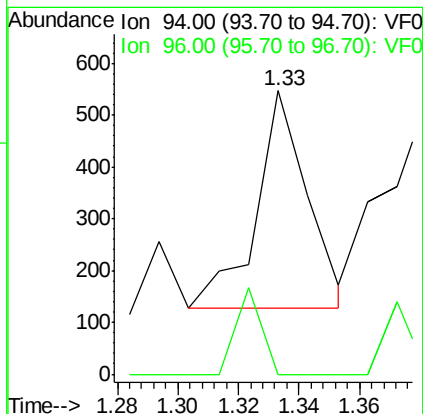
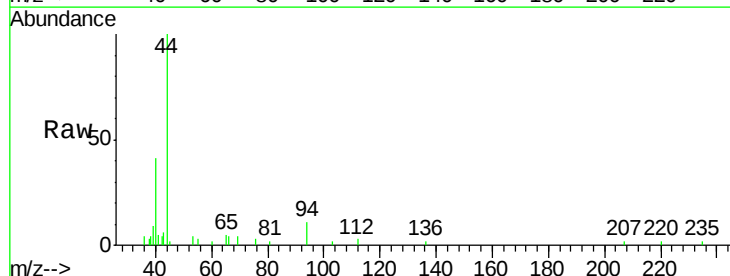
Acq: 14 Mar 2019 16:54

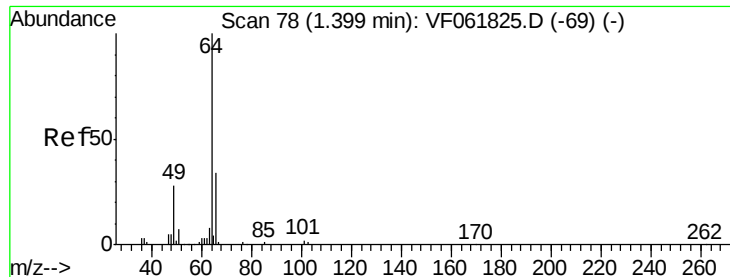
Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#





#6

Chloroethane

Concen: 42.770 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.09 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

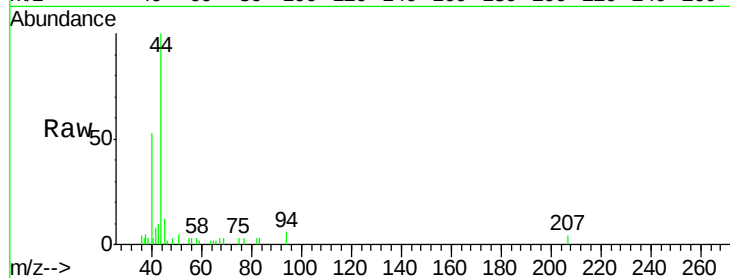
ORG-031419

Tot Ion: 64 Resp: 62

Ion Ratio Lower Upper

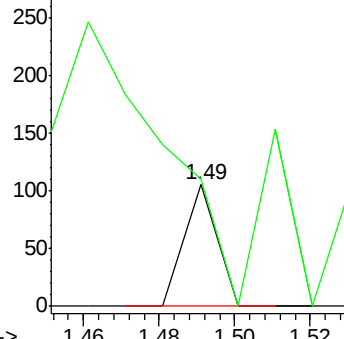
64 100

66 104.8 27.0 40.4#

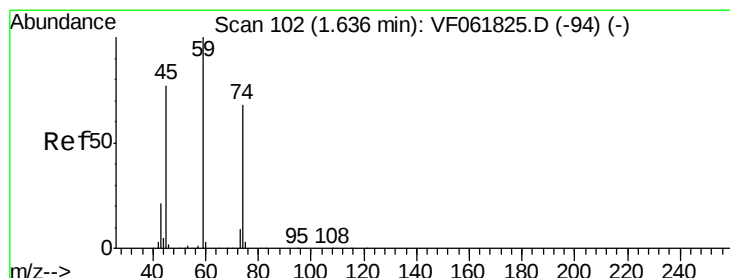
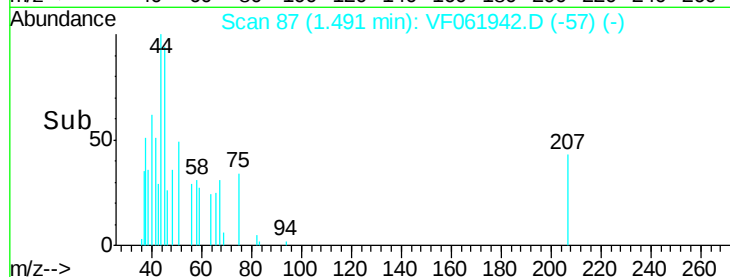


Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



Time-->



#8

Diethyl Ether

Concen: 79.104 ug/l

RT: 1.65 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF061942.D

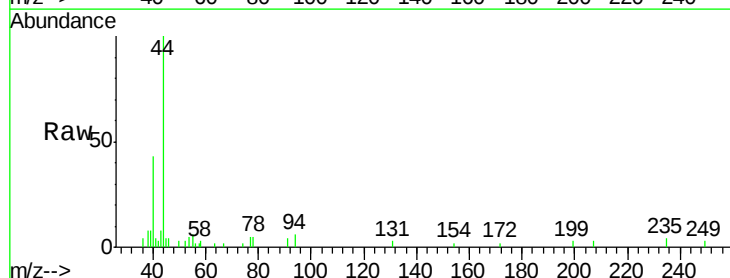
Acq: 14 Mar 2019 16:54

Tgt Ion: 74 Resp: 67

Ion Ratio Lower Upper

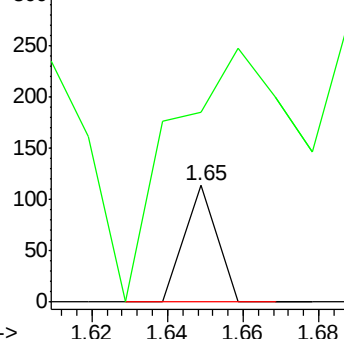
74 100

45 163.7 57.2 171.6

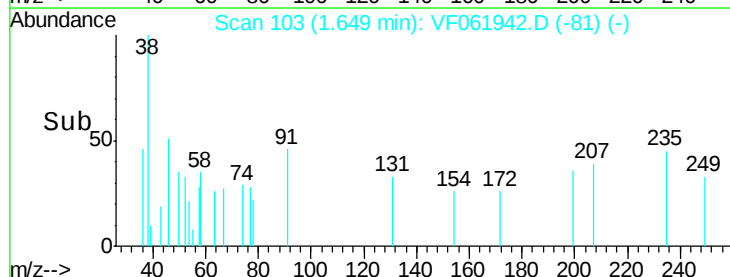


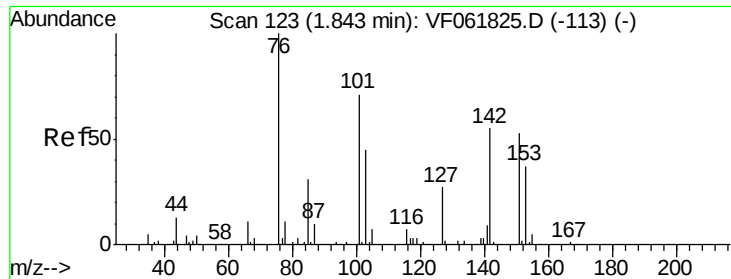
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->

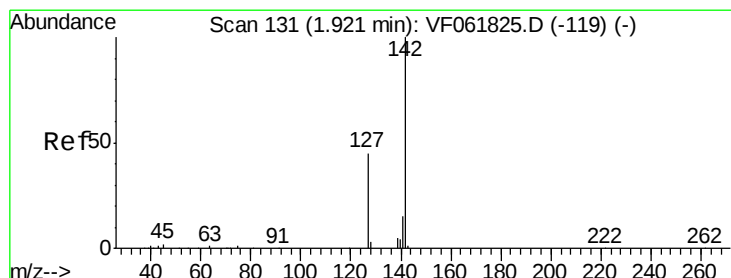
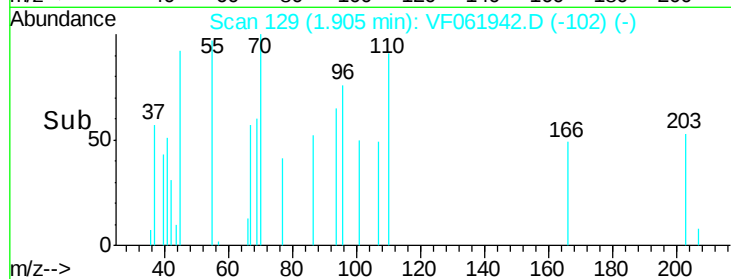
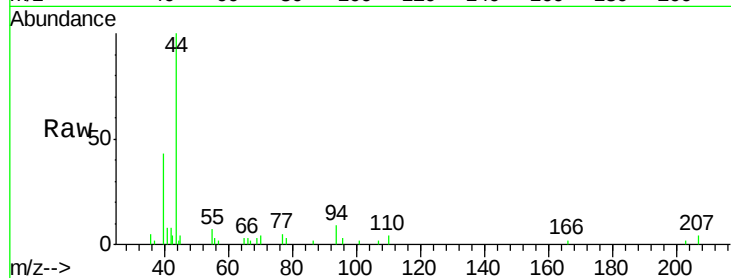
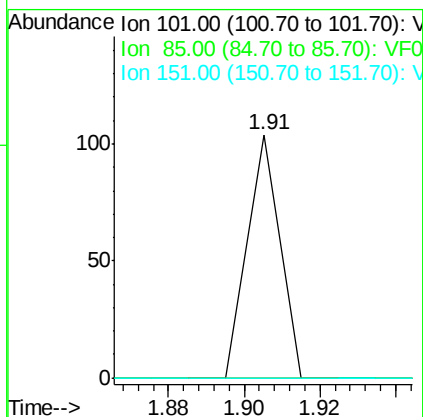




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 24.512 ug/l
 RT: 1.91 min Scan# 129
 Delta R.T. 0.06 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

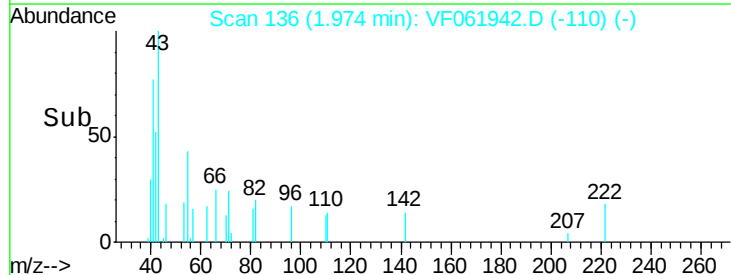
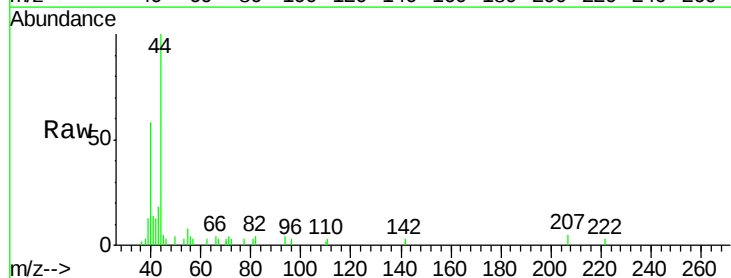
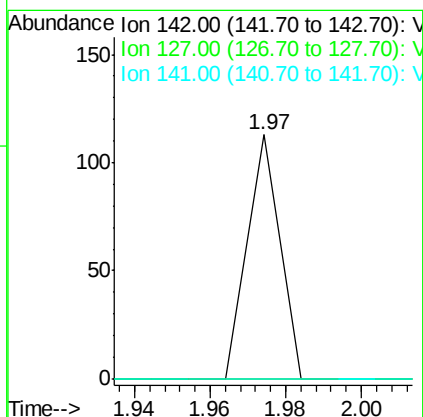
Instrument :
 MSVOA_F
 ClientSampleId :
 ORG-031419

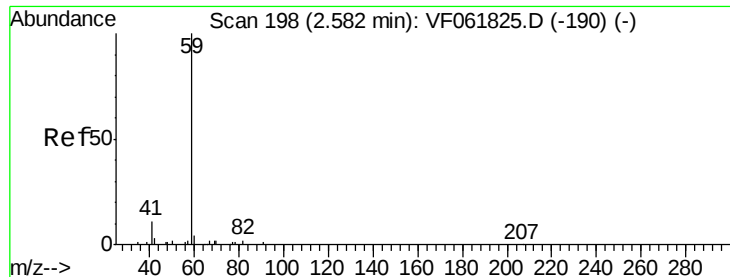
Tot Ion	Ratio	Lower	Upper
101	100		
85	0.0	34.0	51.0#
151	0.0	57.3	85.9#



#10
 Methyl Iodide
 Concen: 13.920 ug/l
 RT: 1.97 min Scan# 136
 Delta R.T. 0.05 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.8	53.6#
141	100.0	11.7	17.5#



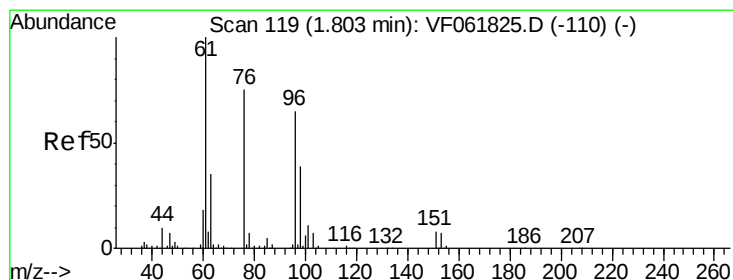
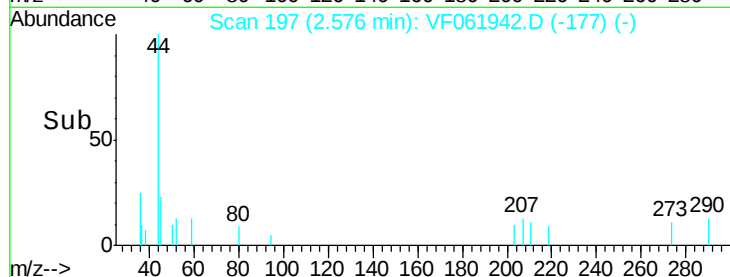
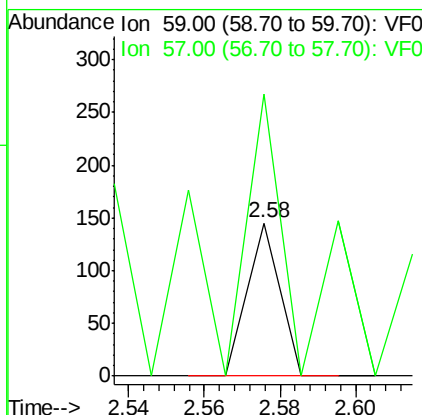
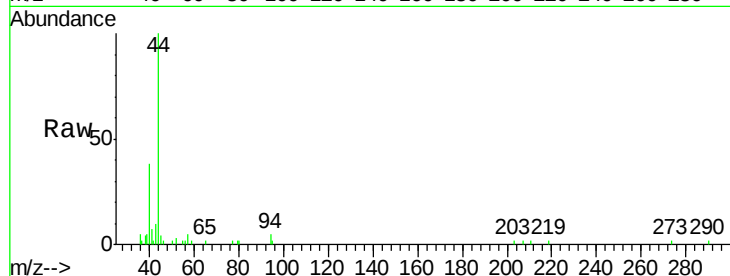


#11

Tert butyl alcohol
Concen: 770.586 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Instrument :
MSVOA_F
ClientSampled :
ORG-031419

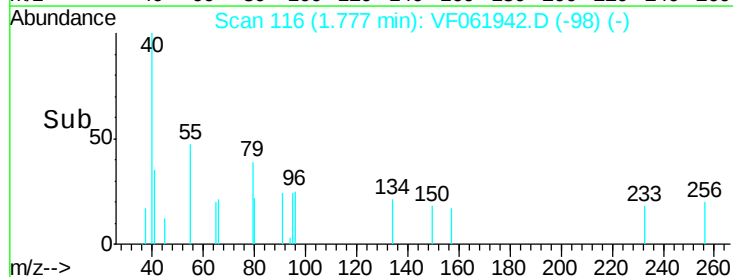
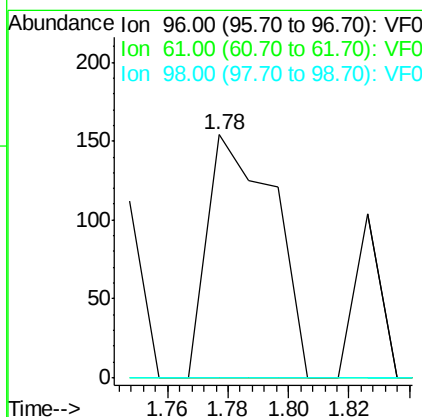
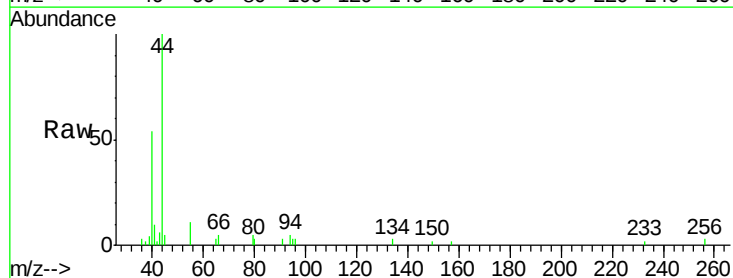
Tot Ion: 59 Resp: 86
Ion Ratio Lower Upper
59 100
57 184.8 11.8 17.6#

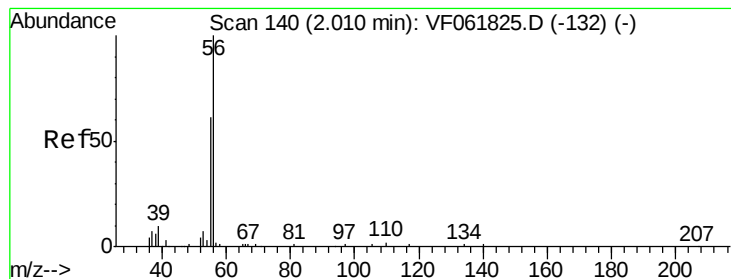


#12

1,1-Dichloroethene
Concen: 102.635 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.03 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Tgt Ion: 96 Resp: 237
Ion Ratio Lower Upper
96 100
61 0.0 122.5 183.7#
98 0.0 47.1 70.7#





#13

Acrolein

Concen: 3189.217 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

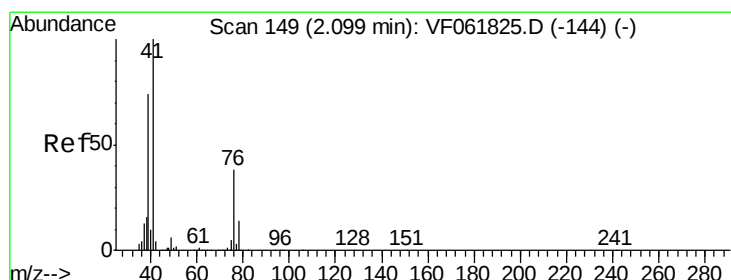
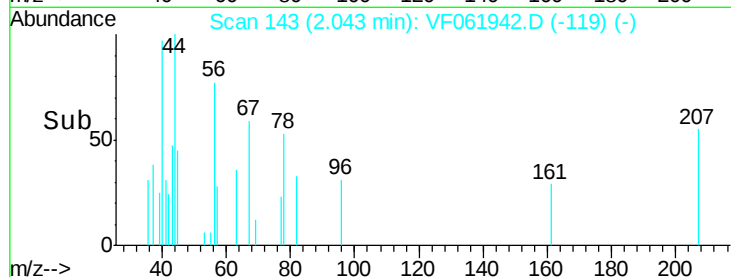
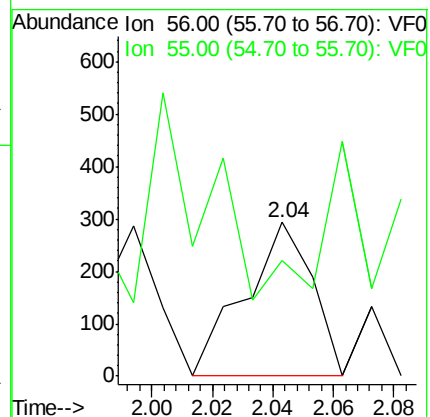
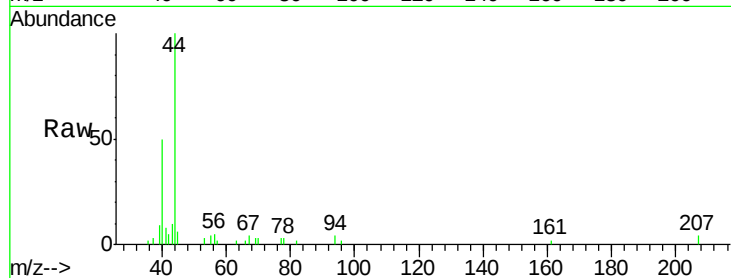
ORG-031419

Tot Ion: 56 Resp: 451

Ion Ratio Lower Upper

56 100

55 75.4 51.3 76.9



#14

Allyl chloride

Concen: 305.041 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.05 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

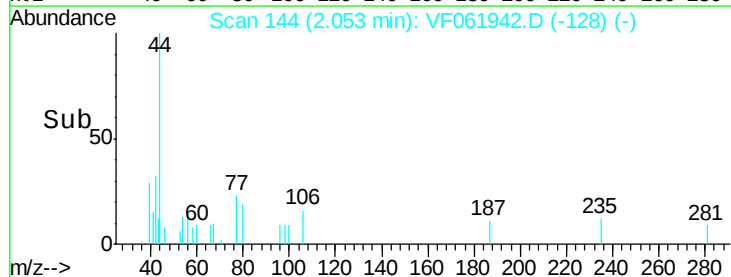
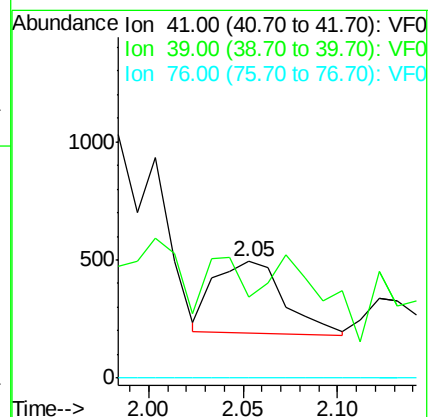
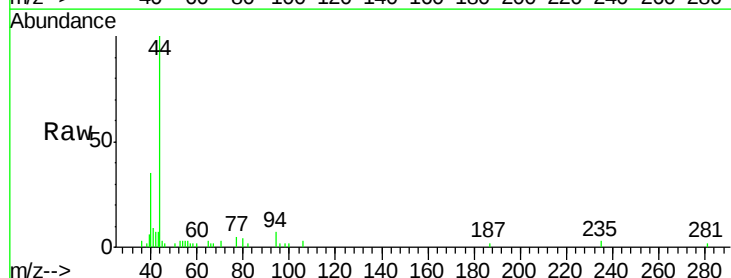
Tgt Ion: 41 Resp: 776

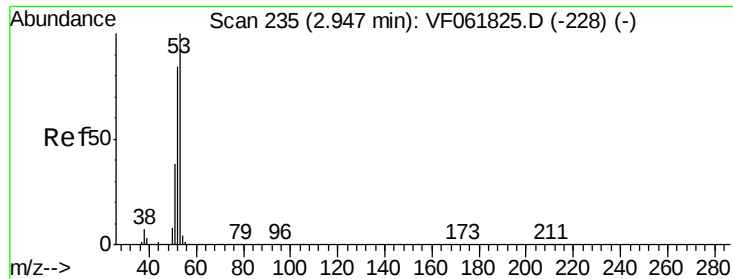
Ion Ratio Lower Upper

41 100

39 69.8 59.6 89.4

76 0.0 32.3 48.5#





#15

Acrylonitrile

Concen: 1778.407 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

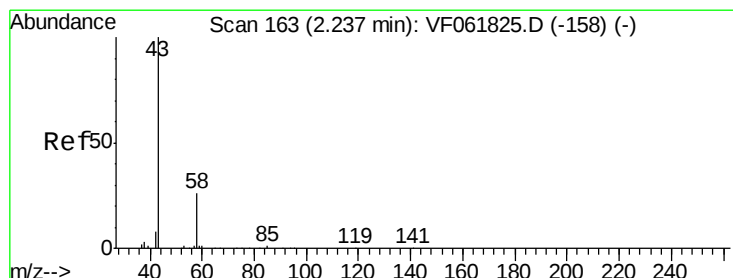
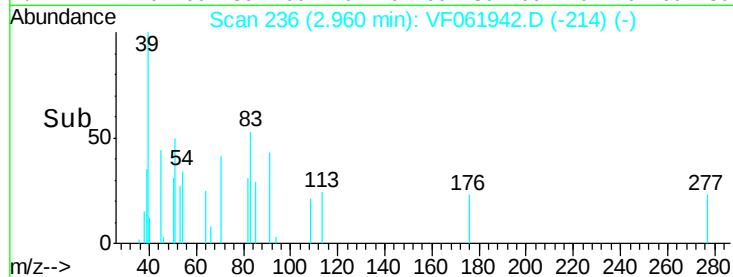
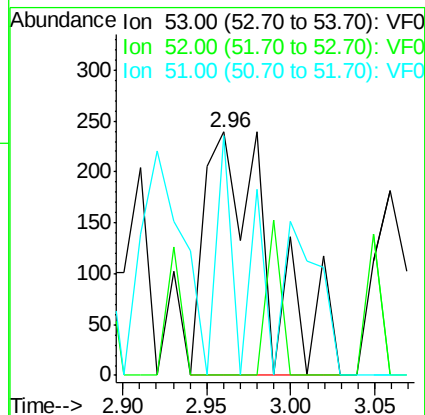
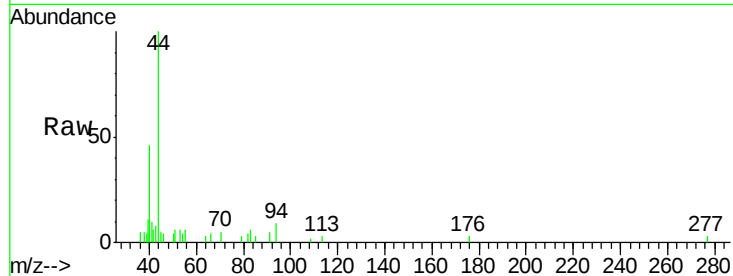
Tot Ion: 53 Resp: 632

Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 98.7 30.7 46.1#



#16

Acetone

Concen: 3323.822 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061942.D

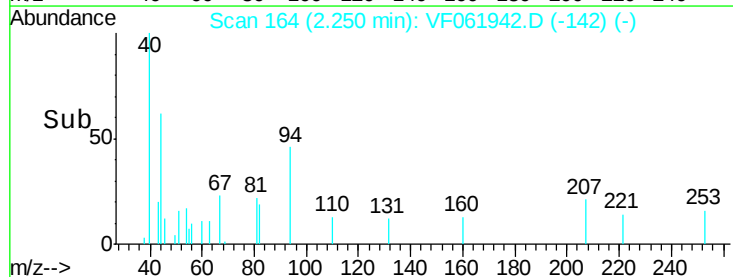
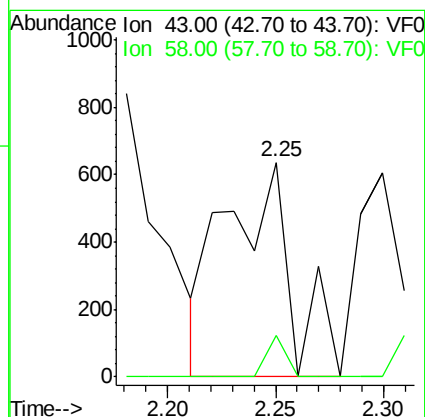
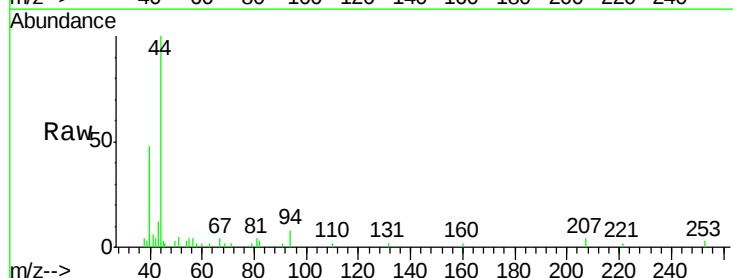
Acq: 14 Mar 2019 16:54

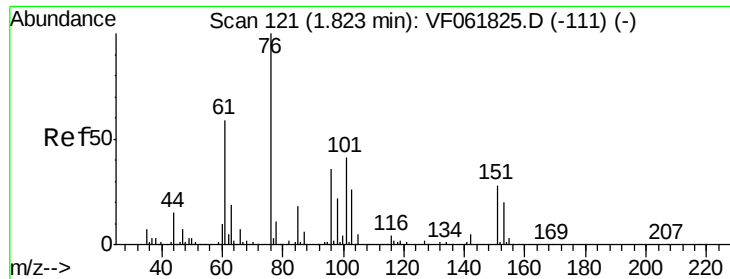
Tgt Ion: 43 Resp: 1369

Ion Ratio Lower Upper

43 100

58 19.2 20.3 30.5#





#17

Carbon Disulfide

Concen: 11.965 ug/l

RT: 1.87 min Scan# 125

Delta R.T. 0.04 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

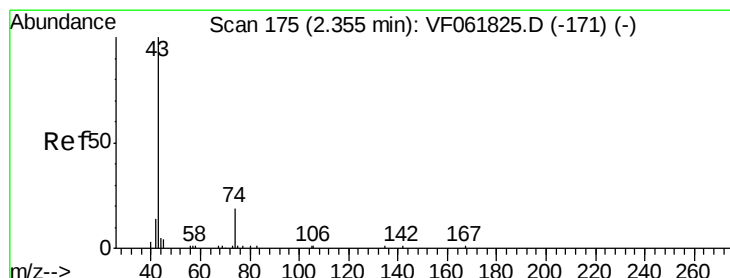
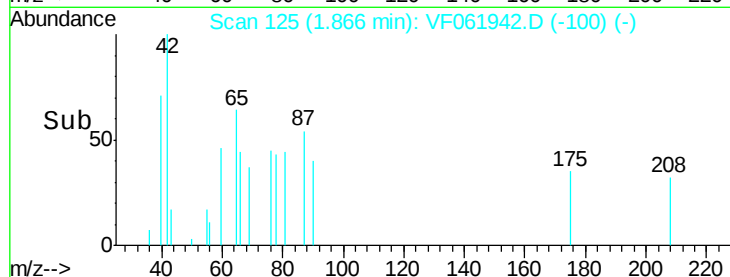
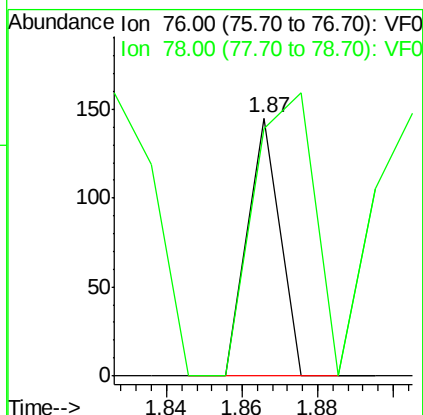
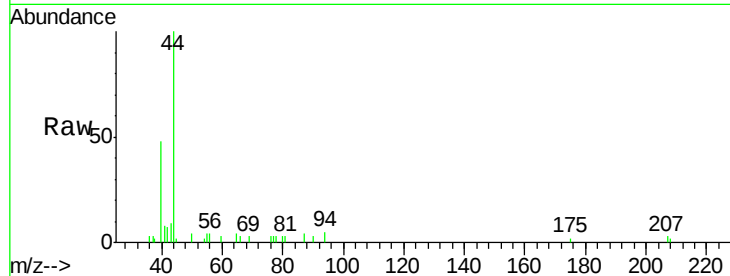
ORG-031419

Tot Ion: 76 Resp: 86

Ion Ratio Lower Upper

76 100

78 95.9 9.1 13.7#



#18

Methyl Acetate

Concen: 904.194 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061942.D

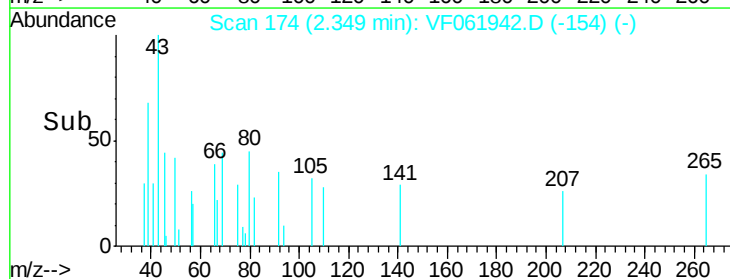
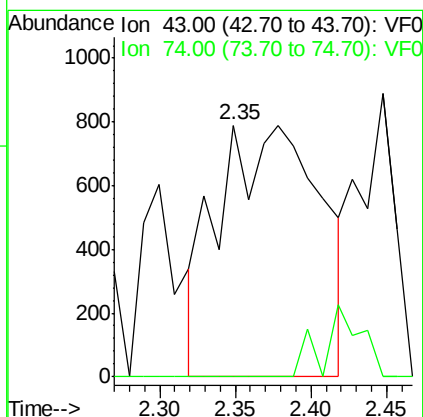
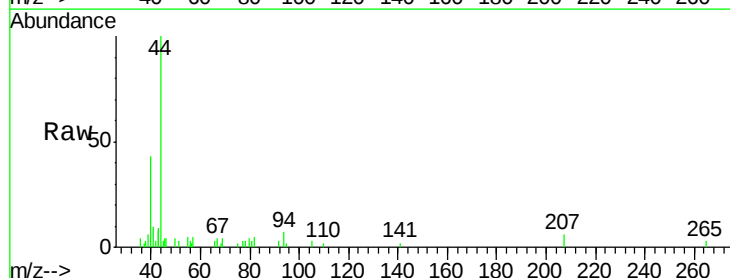
Acq: 14 Mar 2019 16:54

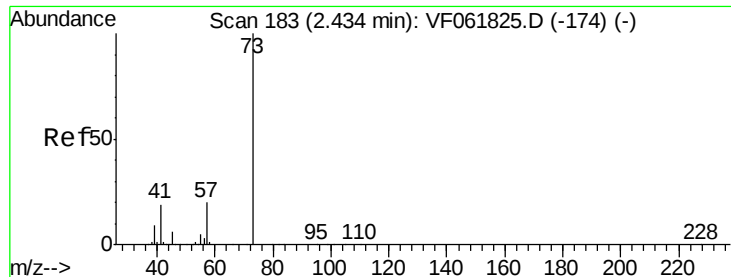
Tgt Ion: 43 Resp: 3692

Ion Ratio Lower Upper

43 100

74 0.0 13.2 19.8#



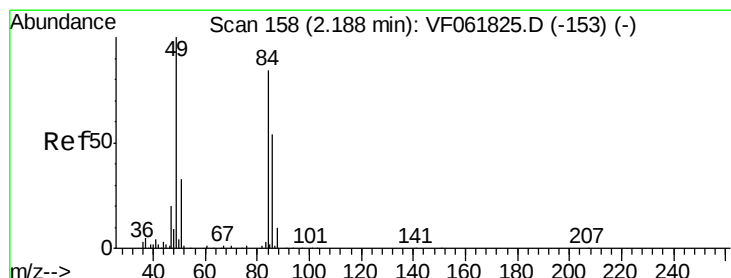
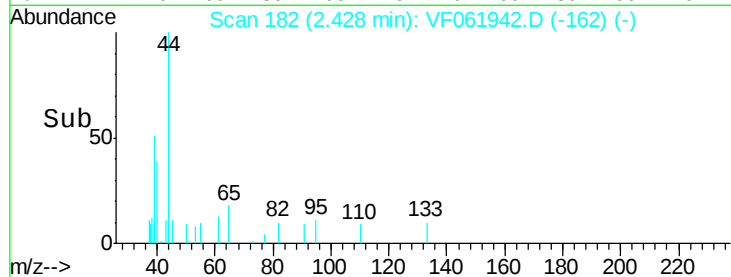
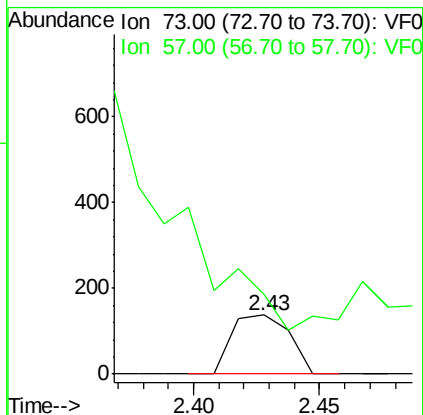
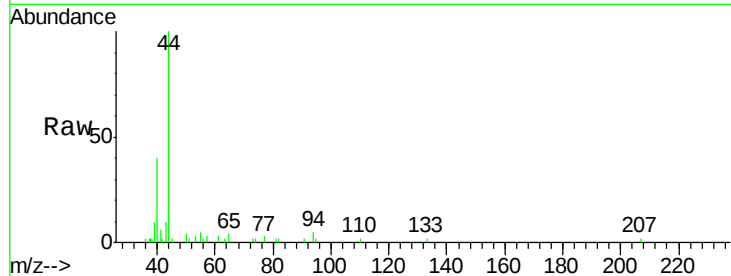


#19

Methyl tert-butyl Ether
 Concen: 55.807 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

Instrument :
 MSVOA_F
 ClientSampleId :
 ORG-031419

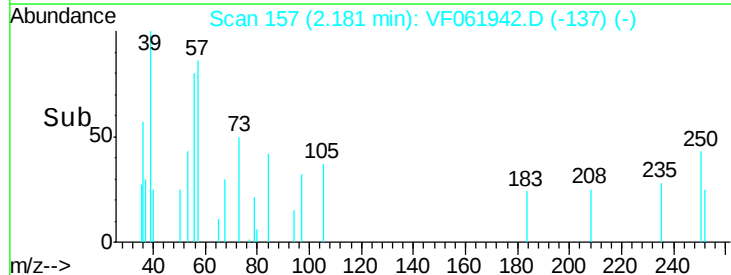
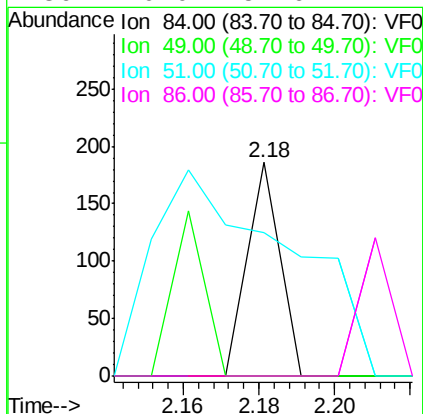
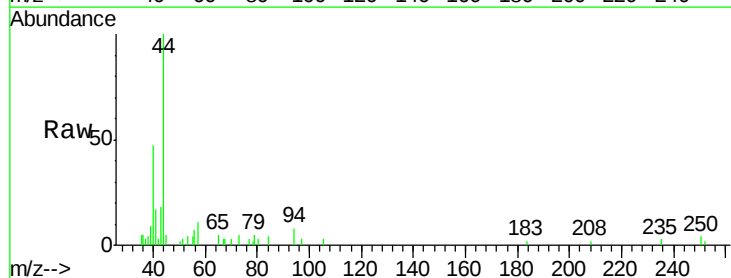
Tot Ion: 73 Resp: 218
 Ion Ratio Lower Upper
 73 100
 57 135.0 16.1 24.1#

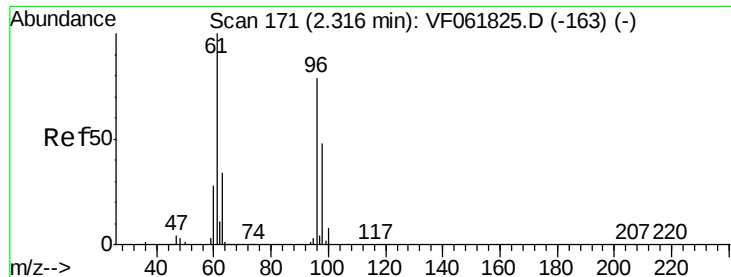


#20

Methylene Chloride
 Concen: 47.855 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

Tgt Ion: 84 Resp: 110
 Ion Ratio Lower Upper
 84 100
 49 0.0 96.8 145.2#
 51 67.2 31.8 47.6#
 86 0.0 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 73.161 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

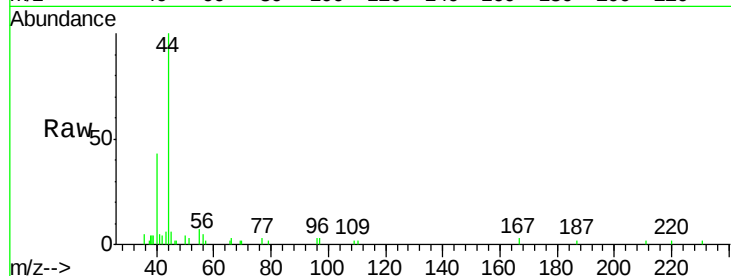
Tot Ion: 96 Resp: 159

Ion Ratio Lower Upper

96 100

61 0.0 101.0 151.6#

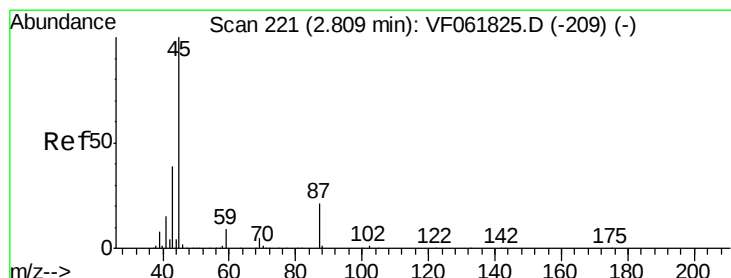
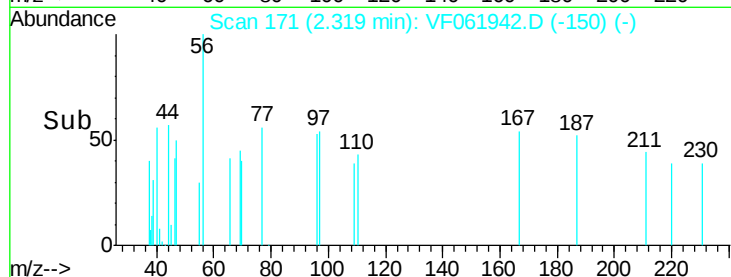
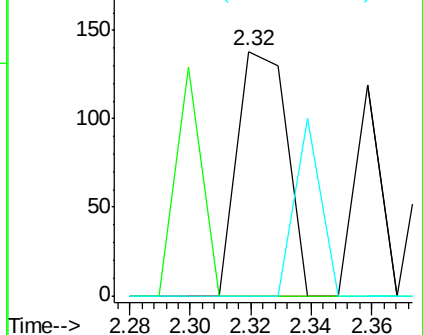
98 0.0 48.8 73.2#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 99.888 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Tgt Ion: 45 Resp: 661

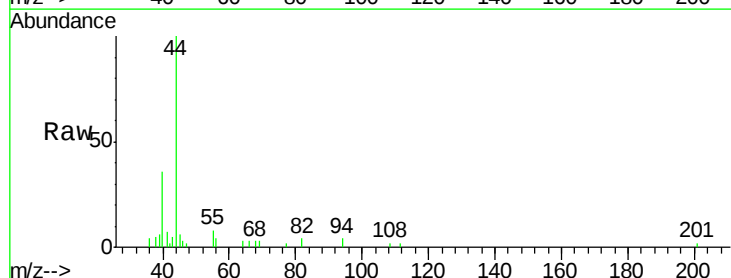
Ion Ratio Lower Upper

45 100

43 90.4 31.8 47.8#

87 0.0 17.1 25.7#

59 0.0 7.8 11.6#

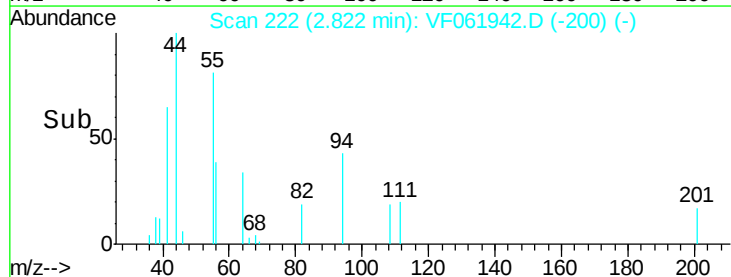
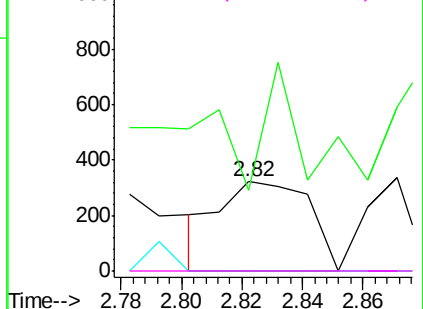


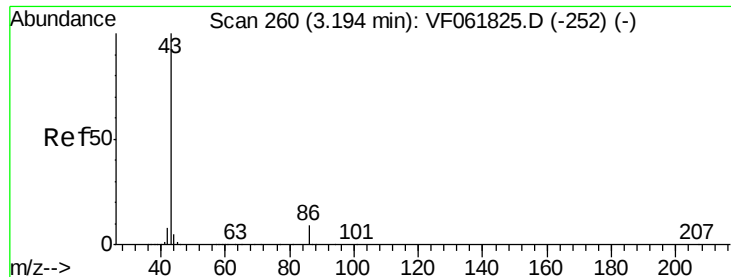
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 283.809 ug/l

RT: 3.19 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

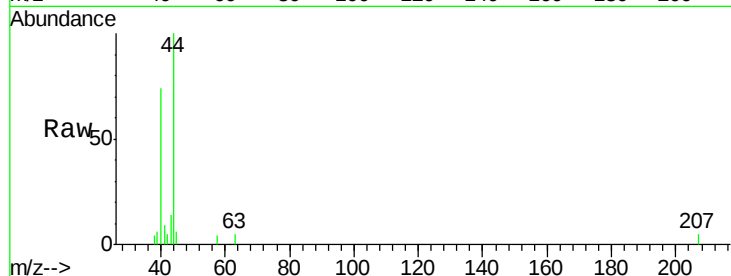
ORG-031419

Tot Ion: 43 Resp: 839

Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

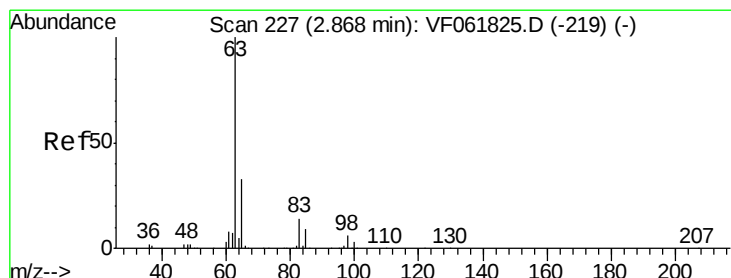
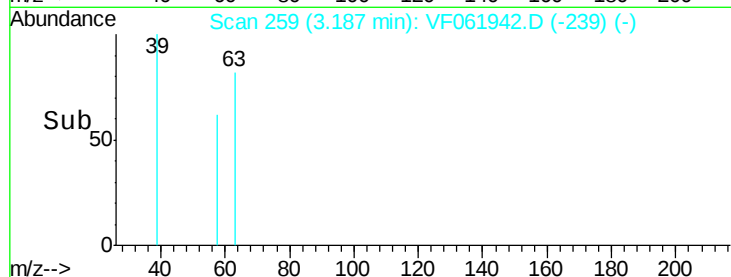
Ion 86.00 (85.70 to 86.70): VF0

3.19

3.15

3.20

Time-->



#24

1,1-Dichloroethane

Concen: 19.720 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

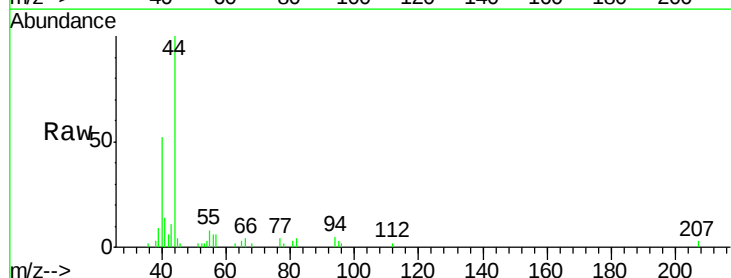
Tgt Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

100 0.0 1.8 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

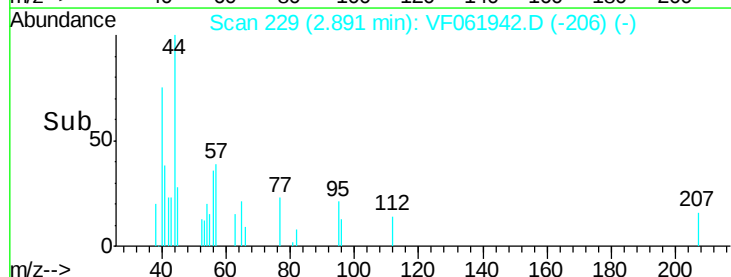
Ion 100.00 (99.70 to 100.70): VF0

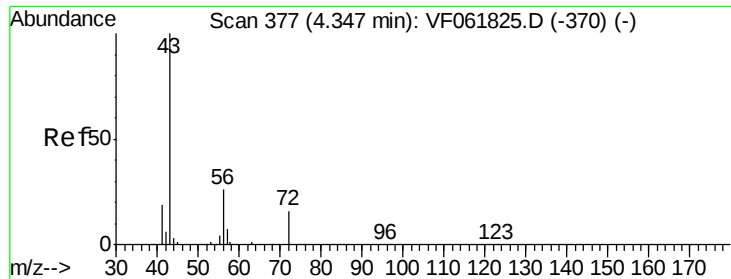
2.89

2.86

2.90

Time-->





#25

2-Butanone

Concen: 1302.233 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

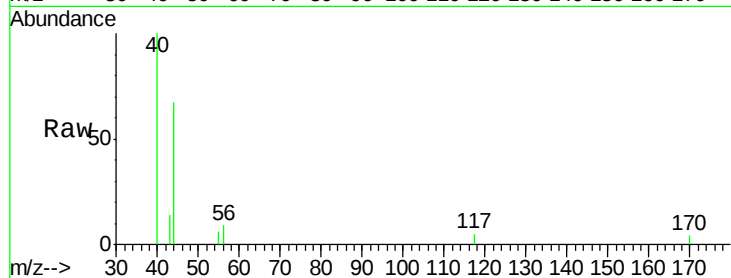
ORG-031419

Tot Ion: 43 Resp: 1091

Ion Ratio Lower Upper

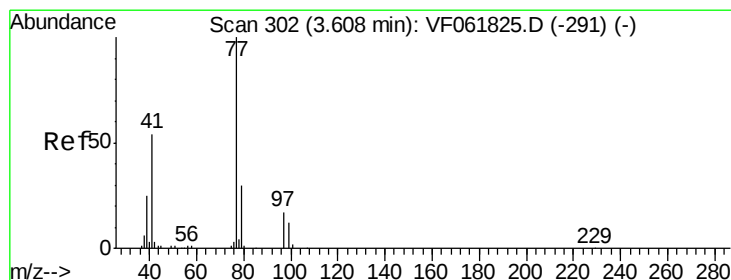
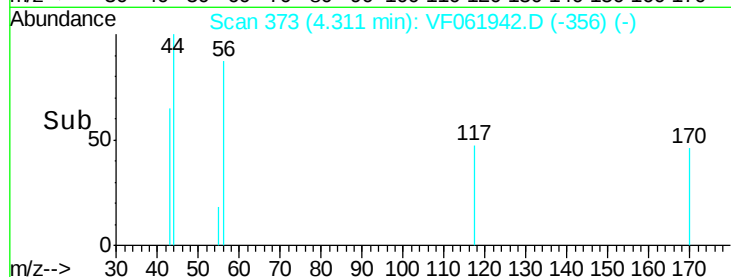
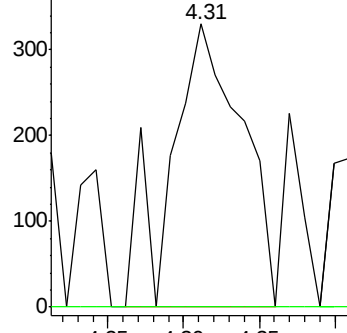
43 100

72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 44.176 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061942.D

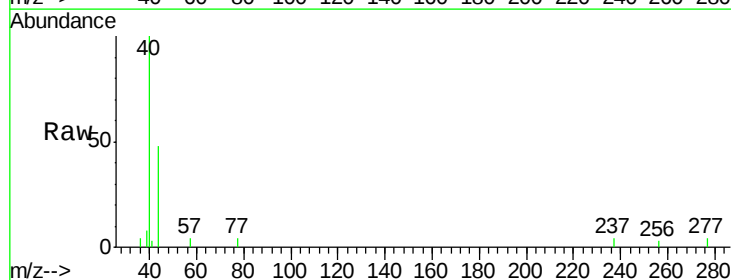
Acq: 14 Mar 2019 16:54

Tgt Ion: 77 Resp: 78

Ion Ratio Lower Upper

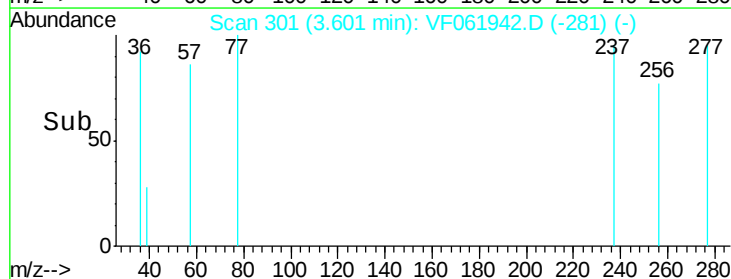
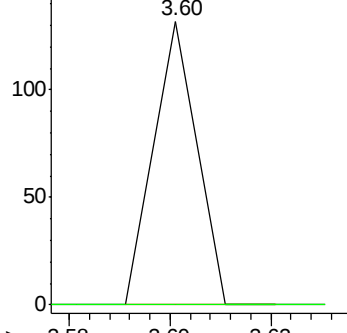
77 100

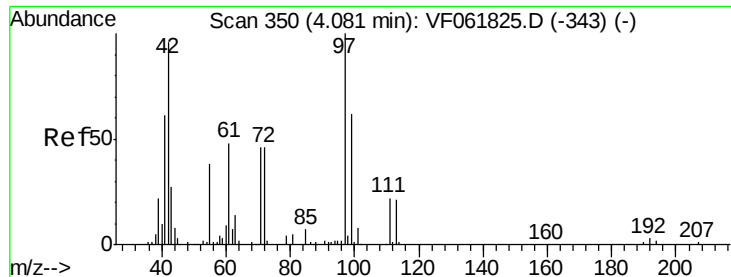
97 0.0 10.4 31.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#29

Tetrahydrofuran

Concen: 476.040 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

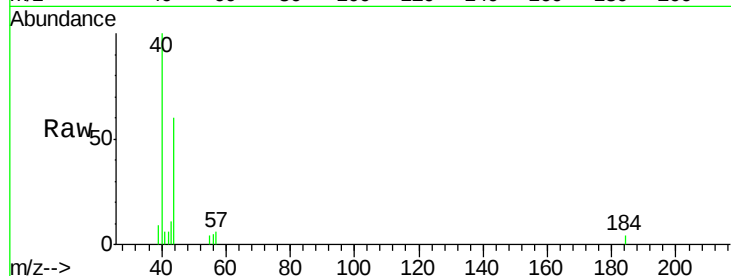
Tot Ion: 42 Resp: 172

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

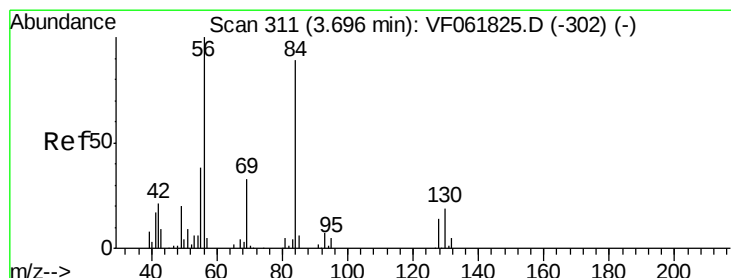
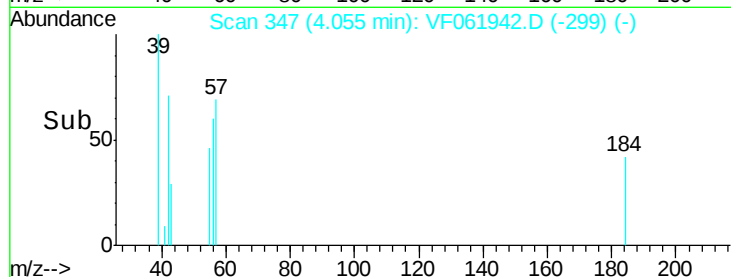
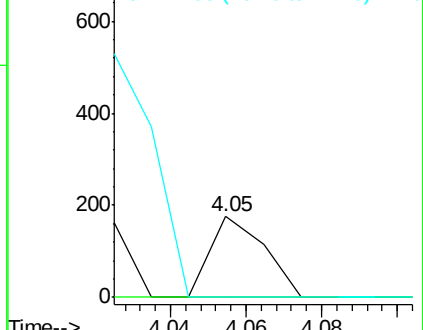
71 0.0 34.6 52.0#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#31

Cyclohexane

Concen: 107.416 ug/l

RT: 3.71 min Scan# 312

Delta R.T. 0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

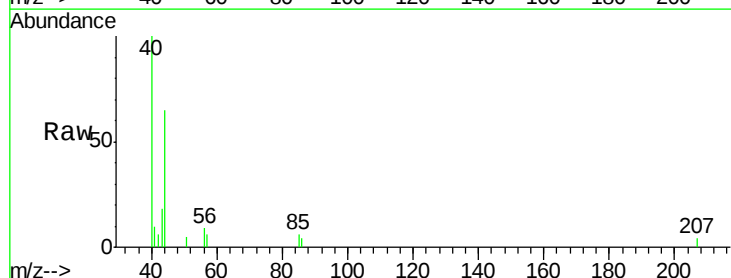
Tgt Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

69 0.0 26.0 39.0#

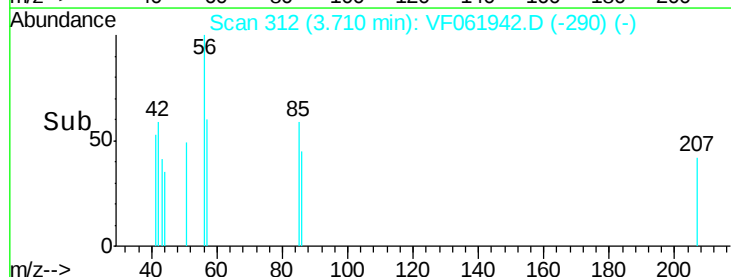
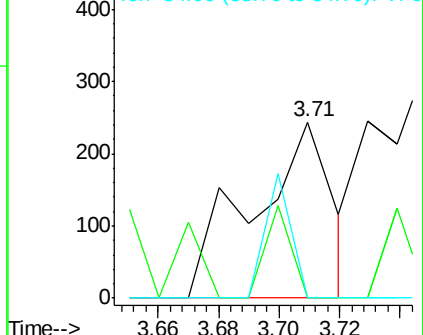
84 0.0 71.0 106.6#

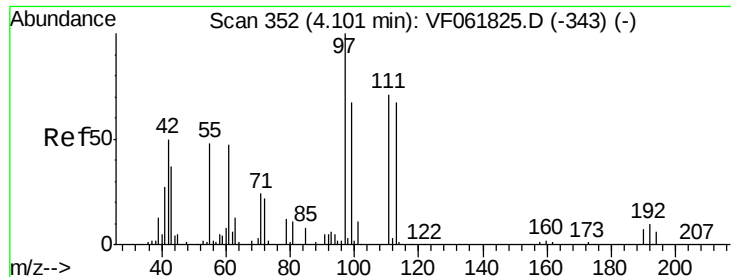


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 21.905 ug/l

RT: 4.19 min Scan# 361

Delta R.T. 0.09 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

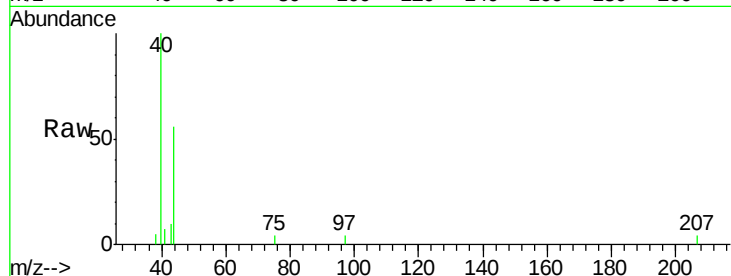
Tot Ion: 97 Resp: 61

Ion Ratio Lower Upper

97 100

99 0.0 53.8 80.8#

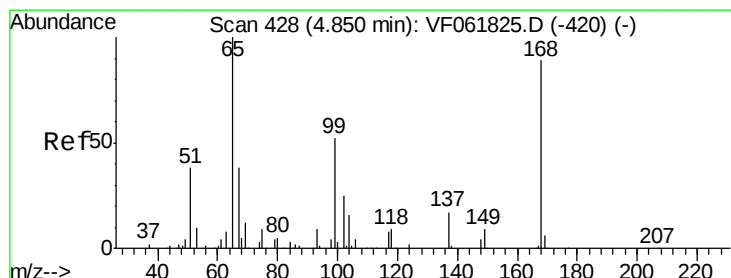
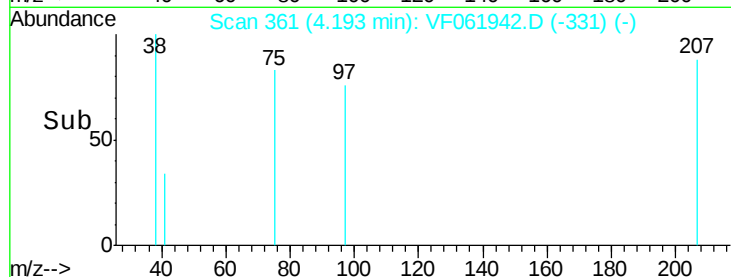
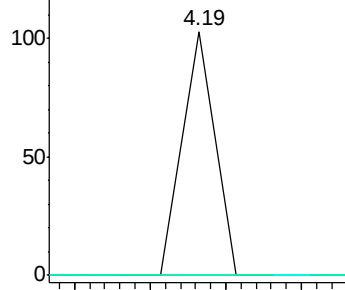
61 0.0 37.9 56.9#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 31.023 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.05 min

Lab File: VF061942.D

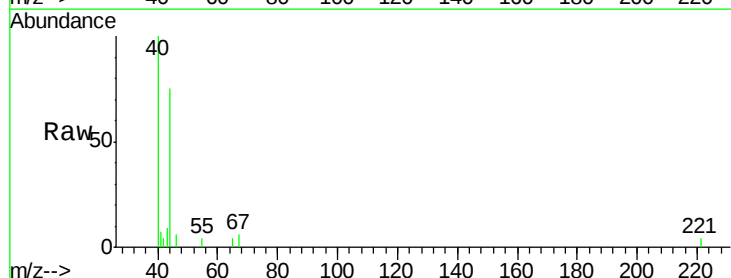
Acq: 14 Mar 2019 16:54

Tgt Ion: 65 Resp: 61

Ion Ratio Lower Upper

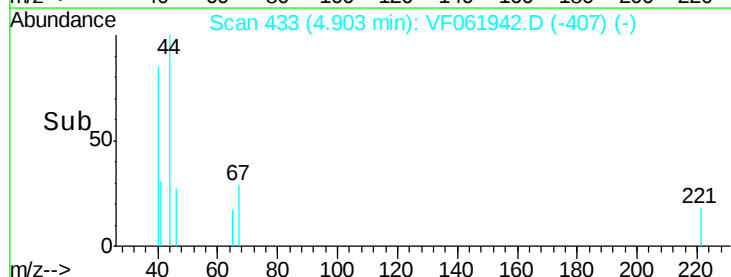
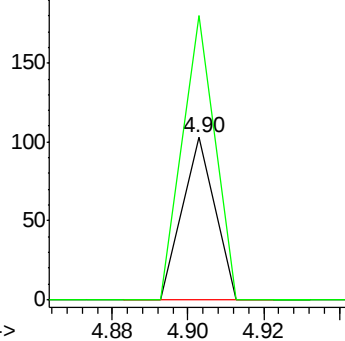
65 100

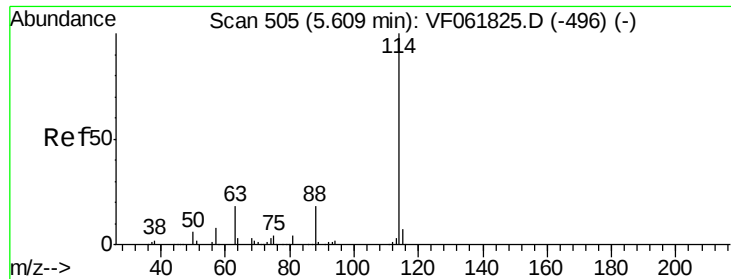
67 174.8 0.0 108.6#



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

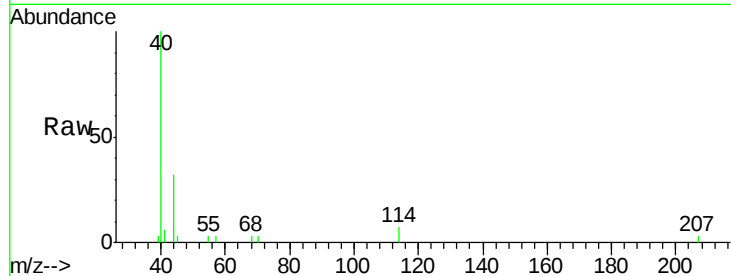
Tot Ion:114 Resp: 565

Ion Ratio Lower Upper

114 100

63 0.0 0.0 35.6

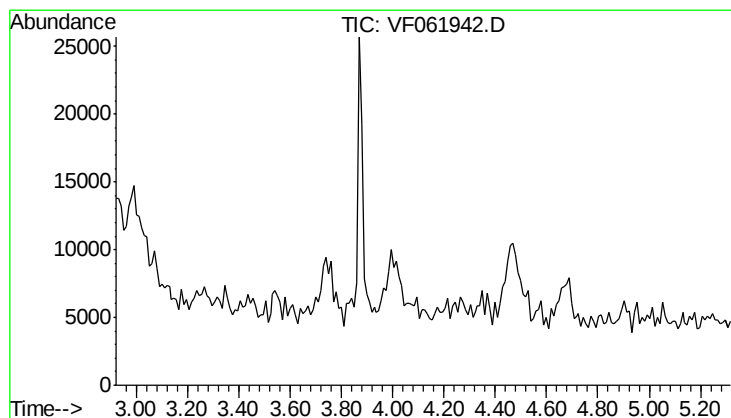
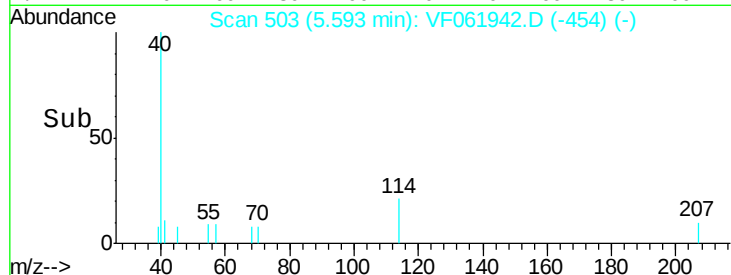
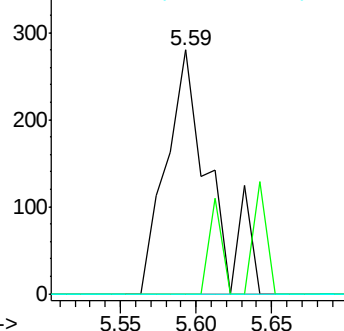
88 0.0 0.0 35.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.12 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

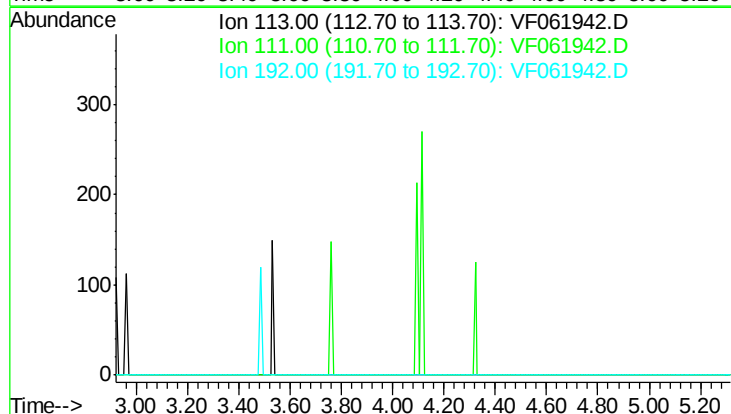
Tgt Ion: 113

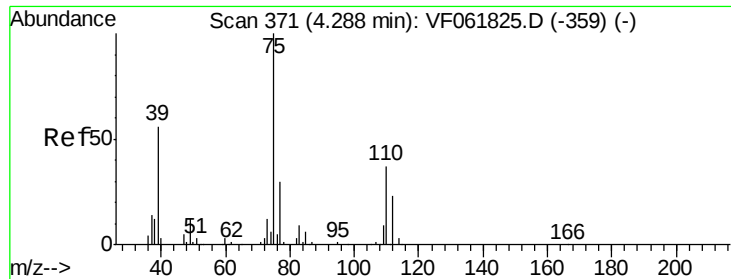
Sig Exp Ratio

113 100

111 97.0

192 19.9





#36

1,1-Dichloropropene

Concen: 12.366 ug/l

RT: 4.19 min Scan# 361

Delta R.T. -0.10 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

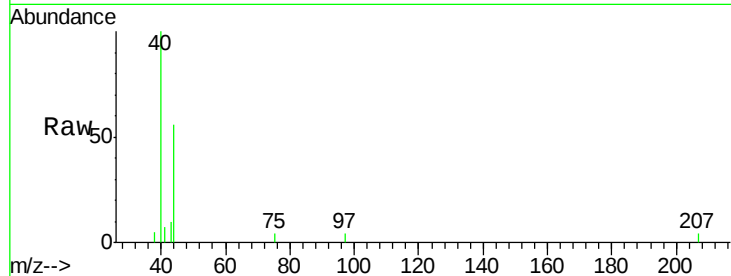
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.6#

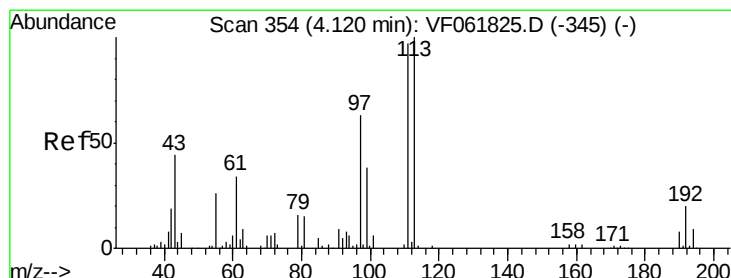
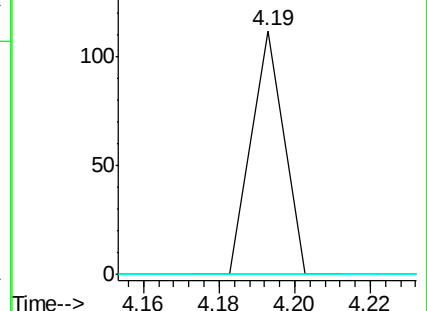
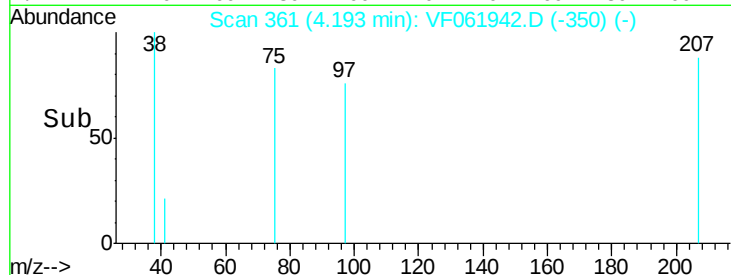
77 0.0 24.2 36.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 133.920 ug/l

RT: 4.16 min Scan# 358

Delta R.T. 0.04 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

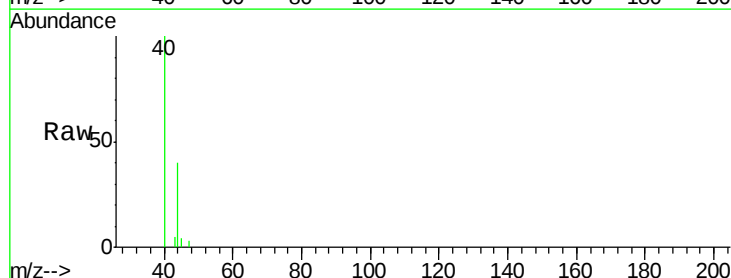
Tgt Ion: 43 Resp: 300

Ion Ratio Lower Upper

43 100

61 0.0 60.7 91.1#

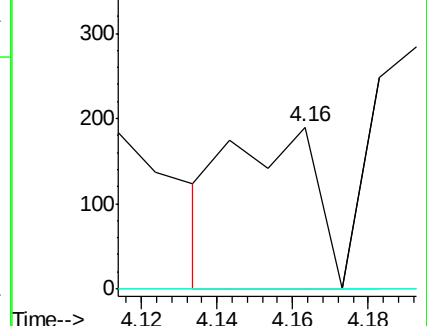
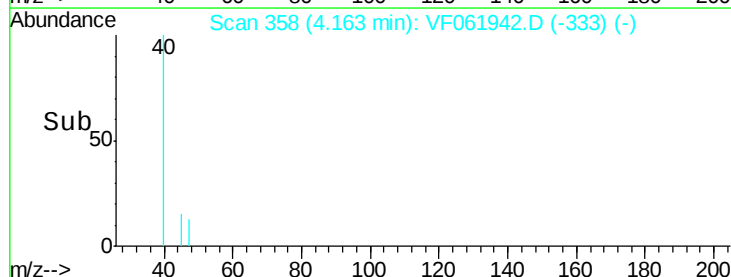
70 0.0 10.6 15.8#

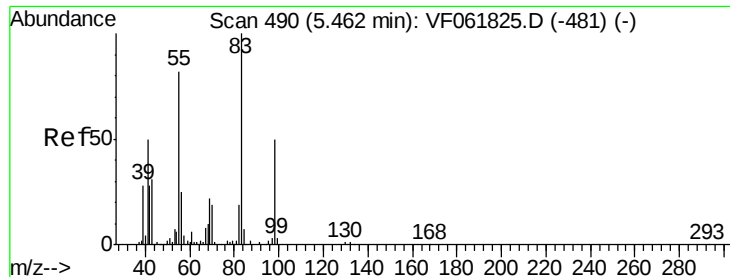


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

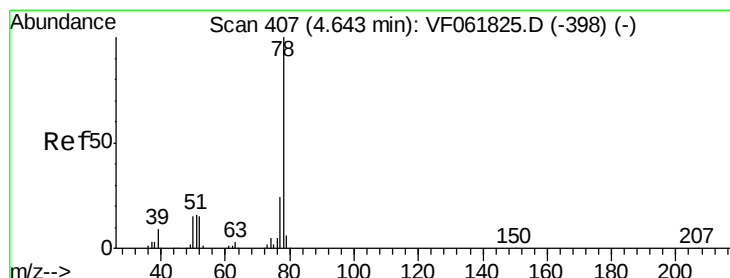
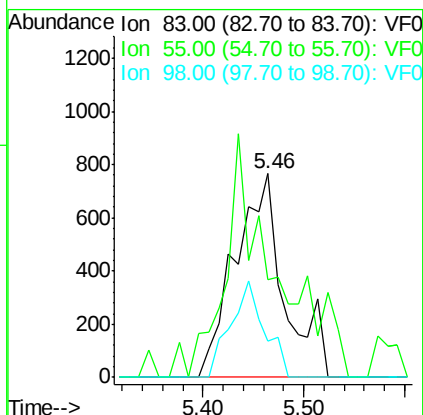
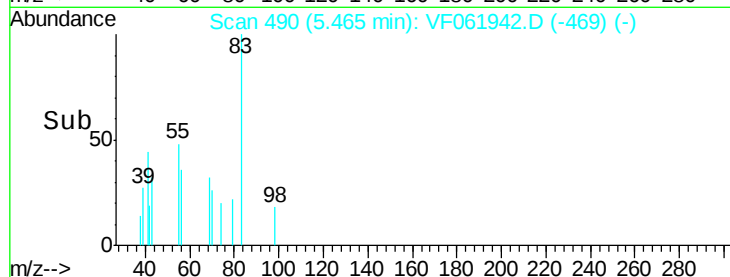
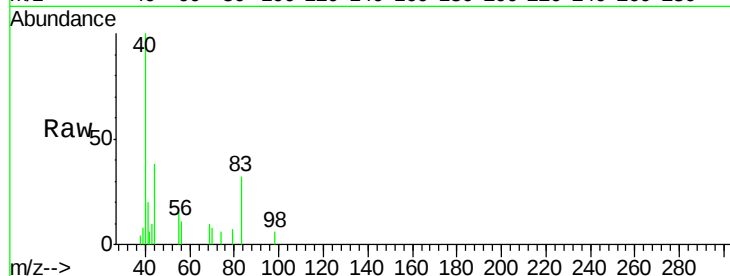




#39
Methvlcvclohexane
Concen: 414.191 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

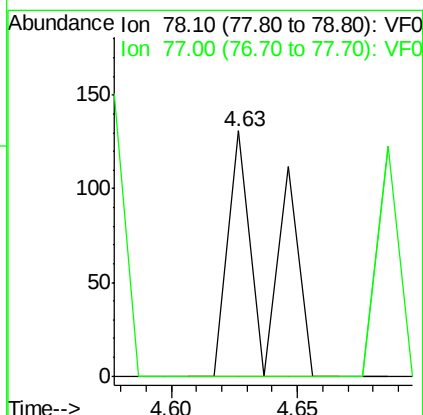
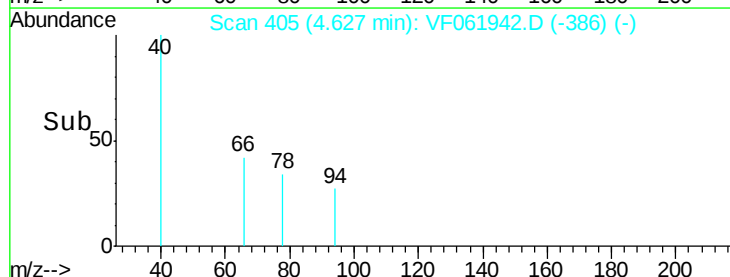
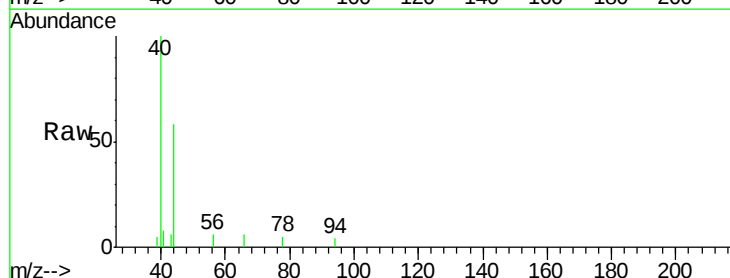
Instrument :
MSVOA_F
ClientSampleId :
ORG-031419

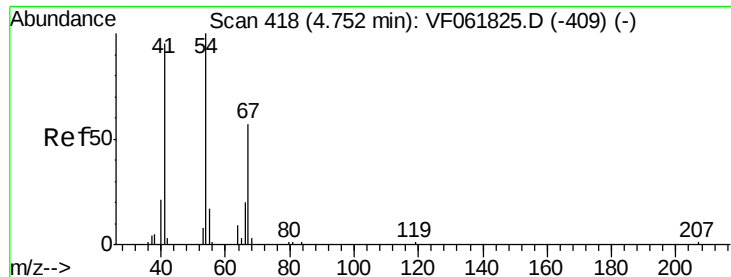
Tot Ion: 83 Resp: 2611
Ion Ratio Lower Upper
83 100
55 48.2 66.0 99.0#
98 17.8 39.8 59.6#



#40
Benzene
Concen: 10.322 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Tgt Ion: 78 Resp: 144
Ion Ratio Lower Upper
78 100
77 0.0 19.5 29.3#

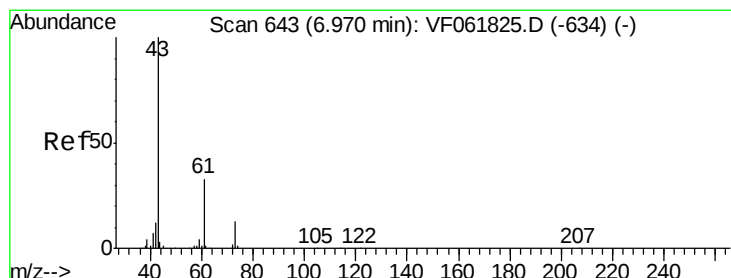
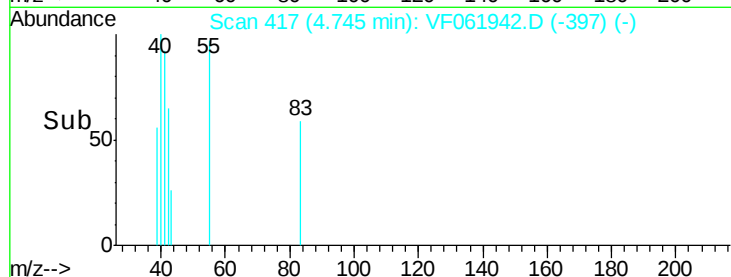
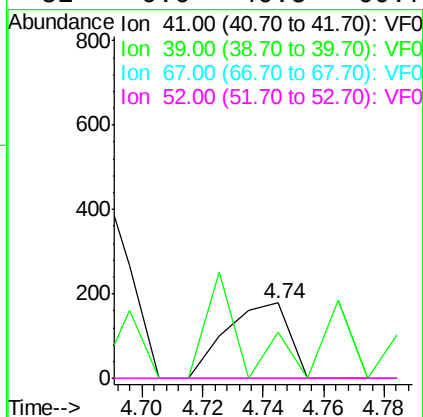
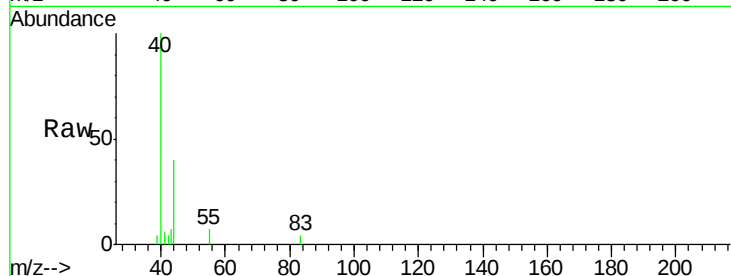




#41
Methacrylonitrile
Concen: 211.839 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

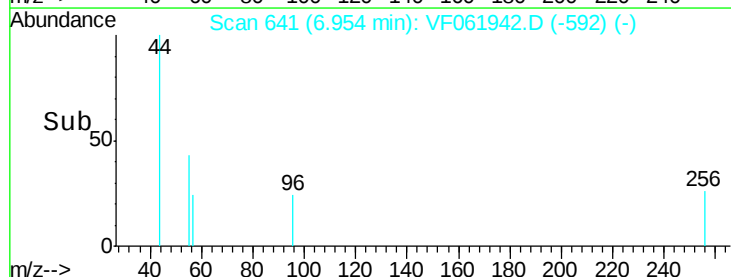
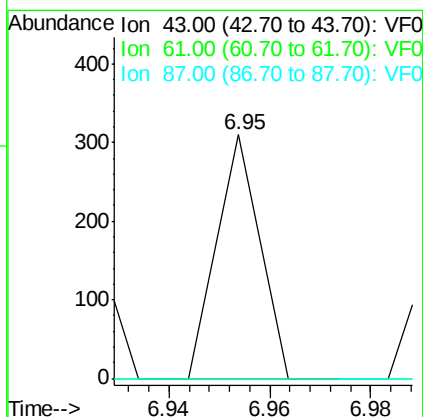
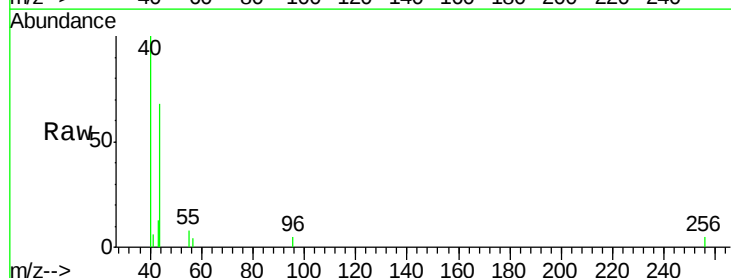
Instrument :
MSVOA_F
ClientSampleId :
ORG-031419

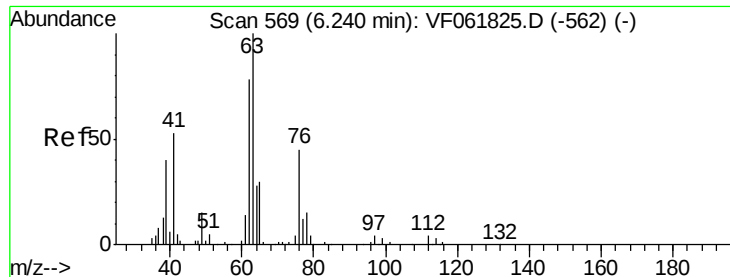
Tot Ion:	41	Resp:	260
Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.0	64.6
67	0.0	47.8	71.8#
52	0.0	40.5	60.7#



#43
Isopropyl Acetate
Concen: 66.272 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.02 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Tgt Ion:	43	Resp:	183
Ion	Ratio	Lower	Upper
43	100		
61	0.0	26.1	39.1#
87	0.0	0.0	0.0





#45

1,2-Dichloropropane

Concen: 18.388 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

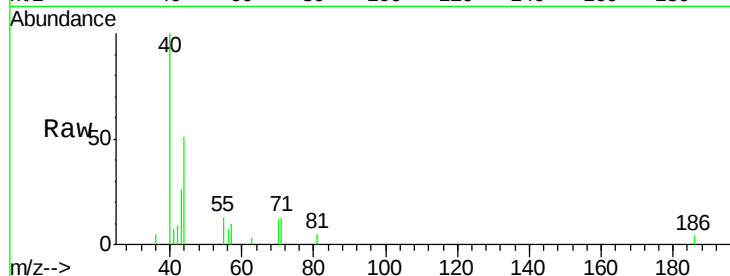
ORG-031419

Tot Ion: 63 Resp: 61

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.25

120

100

80

60

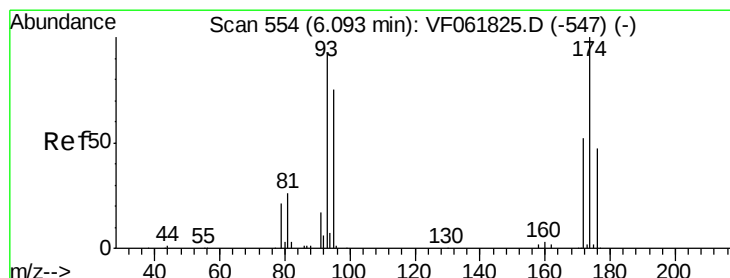
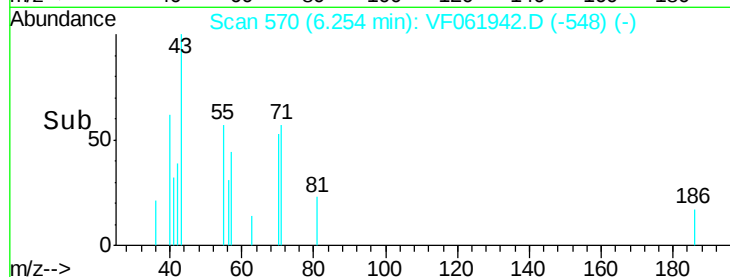
40

20

0

Time-->

6.22 6.24 6.26 6.28



#46

Dibromomethane

Concen: 29.696 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

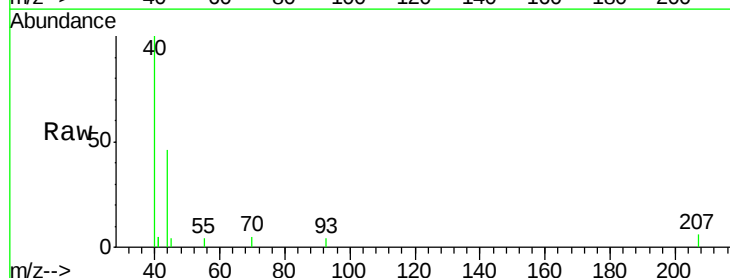
Tgt Ion: 93 Resp: 62

Ion Ratio Lower Upper

93 100

95 0.0 64.4 96.6#

174 0.0 85.8 128.6#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

6.07

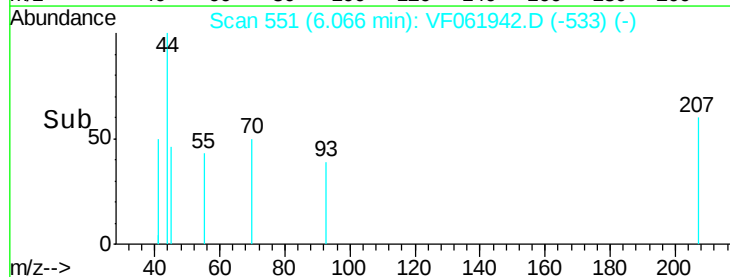
100

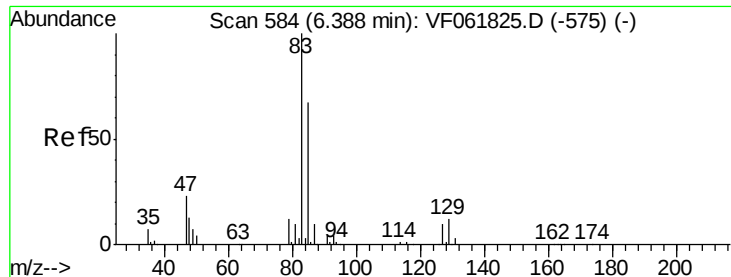
50

0

Time-->

6.04 6.06 6.08 6.10





#47

Bromodichloromethane

Concen: 19.729 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

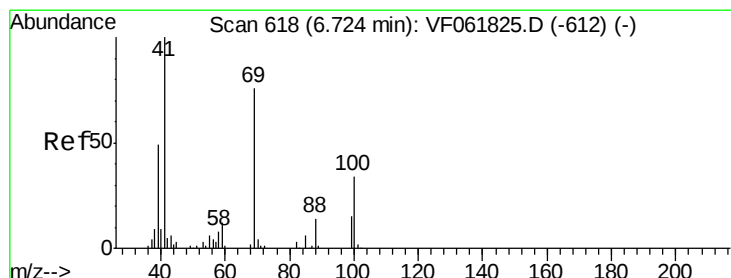
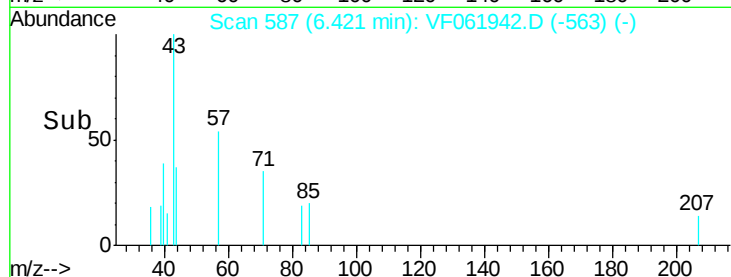
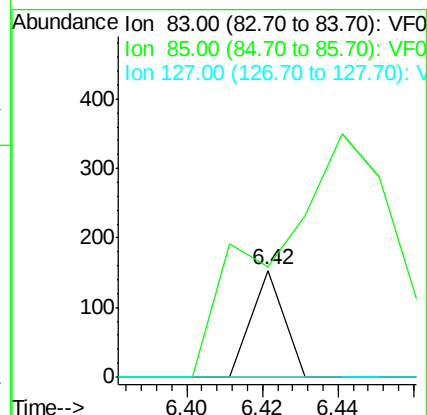
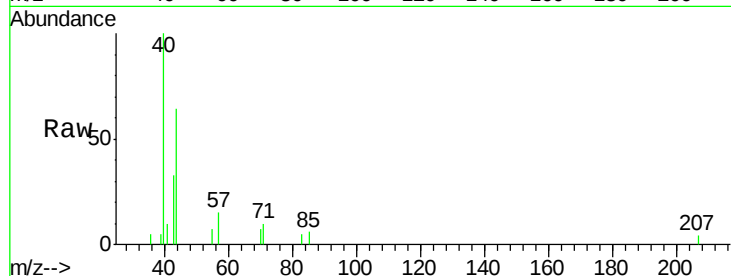
Tot Ion: 83 Resp: 91

Ion Ratio Lower Upper

83 100

85 103.9 53.6 80.4#

127 0.0 8.1 12.1#



#48

Methyl methacrylate

Concen: 304.992 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.02 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

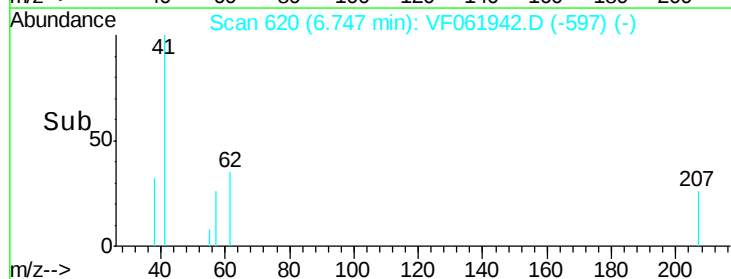
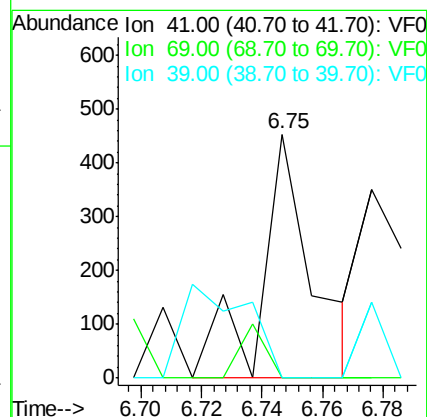
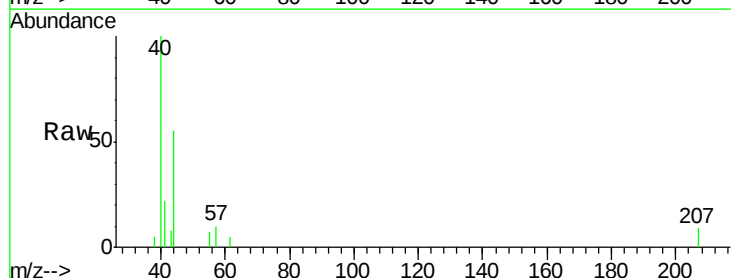
Tgt Ion: 41 Resp: 533

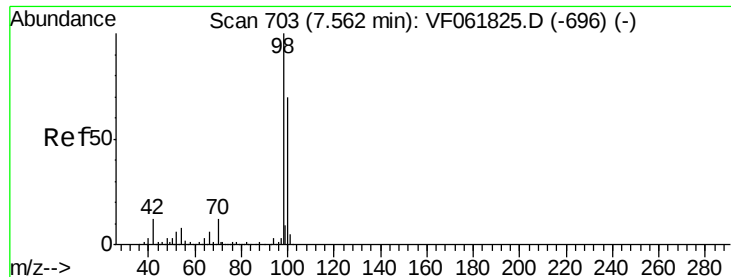
Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

39 0.0 39.7 59.5#





#50

Toluene-d8

Concen: 45.223 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

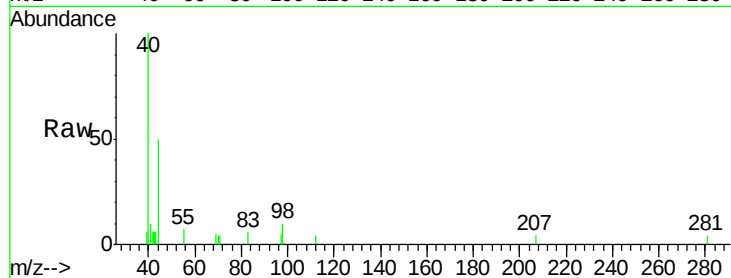
ORG-031419

Tot Ion: 98 Resp: 530

Ion Ratio Lower Upper

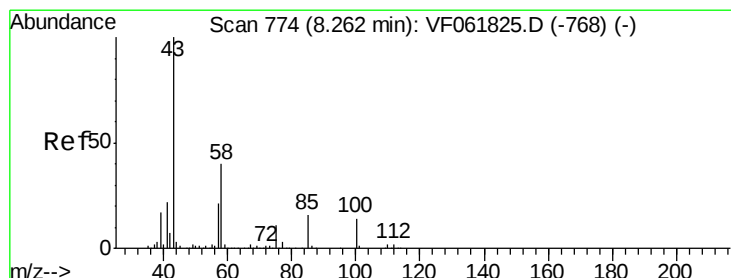
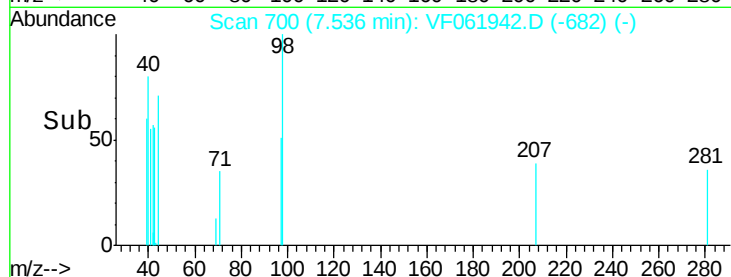
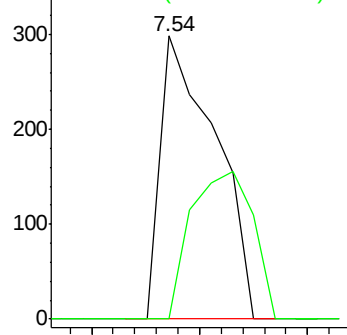
98 100

100 0.0 56.0 84.0#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 1162.189 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061942.D

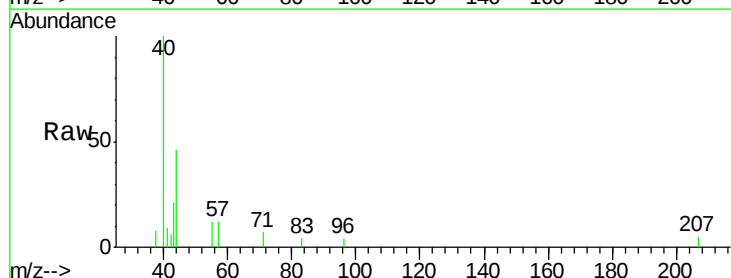
Acq: 14 Mar 2019 16:54

Tgt Ion: 43 Resp: 2218

Ion Ratio Lower Upper

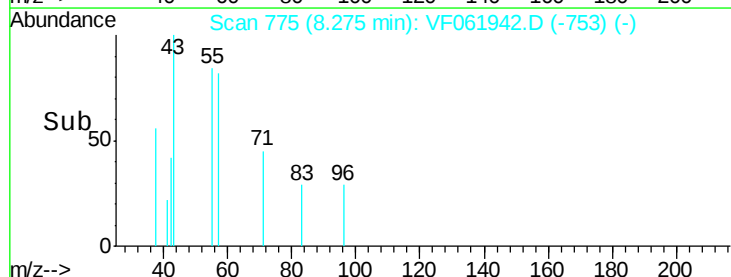
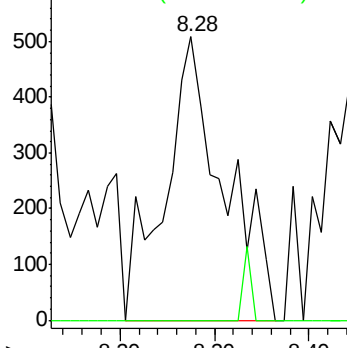
43 100

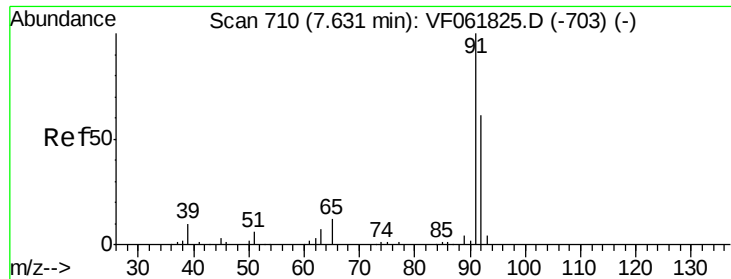
58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 8.482 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampled :

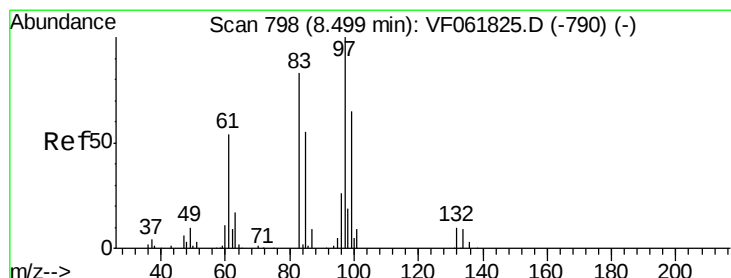
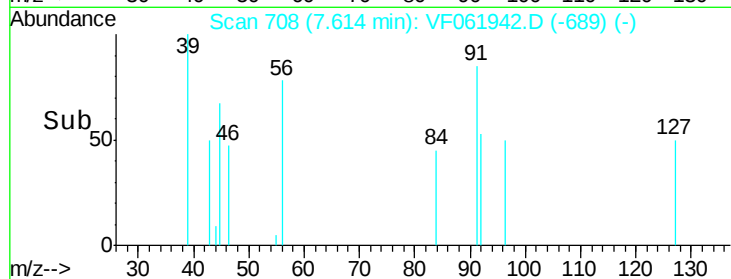
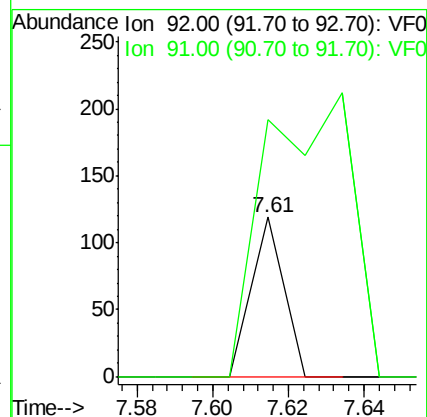
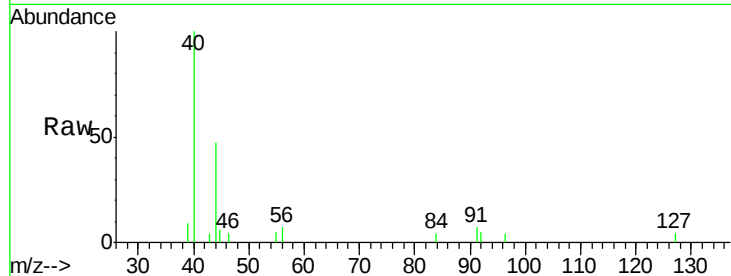
ORG-031419

Tot Ion: 92 Resp: 70

Ion Ratio Lower Upper

92 100

91 161.3 132.0 198.0



#55

1,1,2-Trichloroethane

Concen: 105.979 ug/l

RT: 8.37 min Scan# 785

Delta R.T. -0.12 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Tgt Ion: 97 Resp: 252

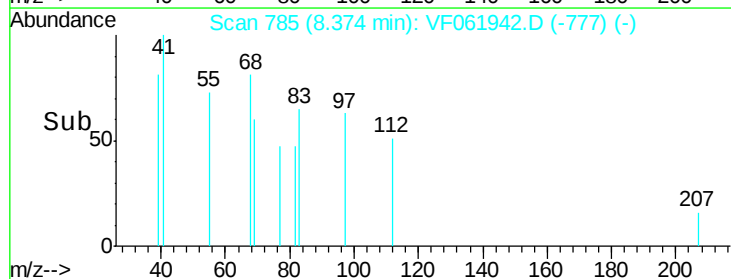
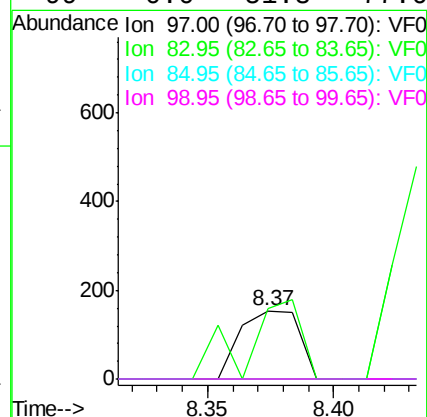
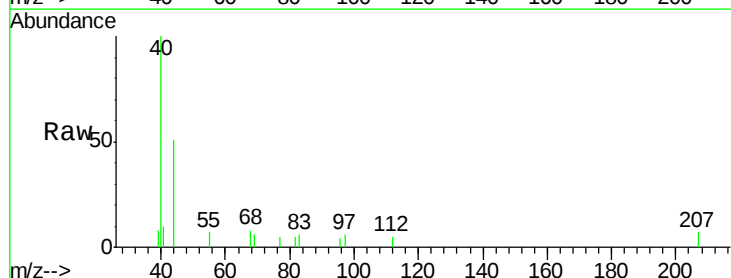
Ion Ratio Lower Upper

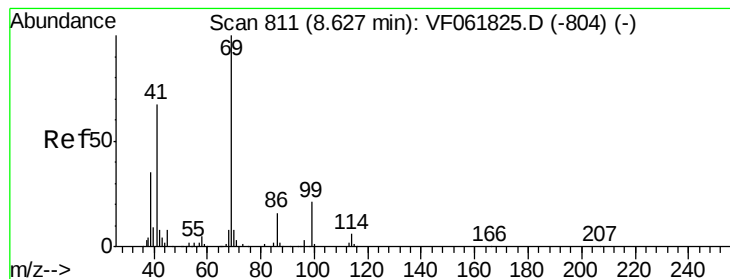
97 100

83 103.9 66.5 99.7#

85 0.0 44.2 66.2#

99 0.0 51.8 77.6#





#56

Ethyl methacrylate

Concen: 740.354 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

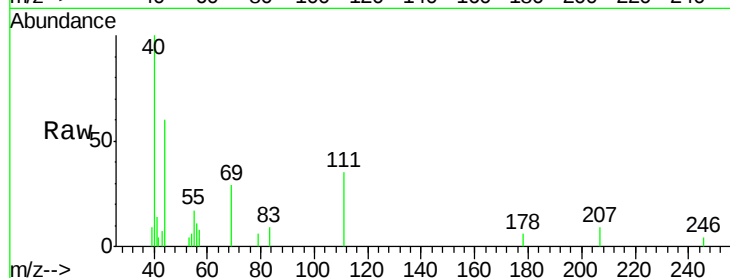
Tot Ion: 69 Resp: 1984

Ion Ratio Lower Upper

69 100

41 47.6 53.9 80.9#

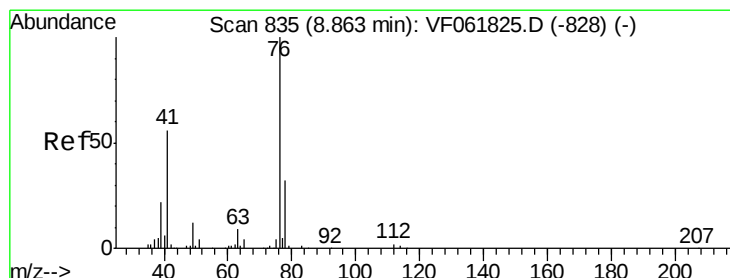
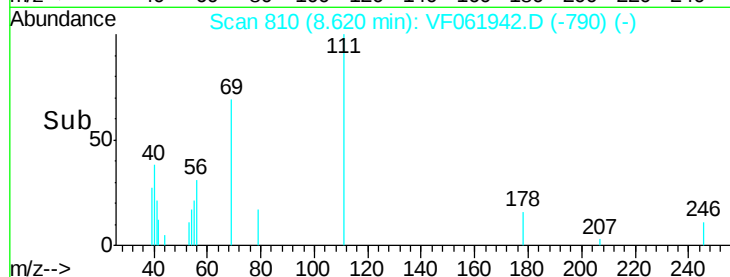
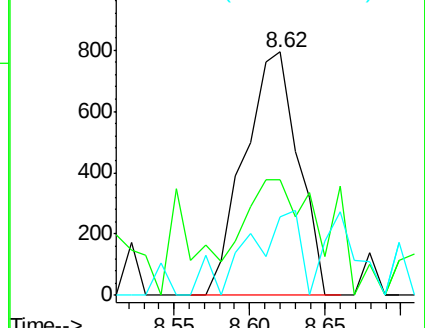
39 32.1 28.3 42.5



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



#57

1,3-Dichloropropane

Concen: 17.487 ug/l

RT: 8.96 min Scan# 844

Delta R.T. 0.09 min

Lab File: VF061942.D

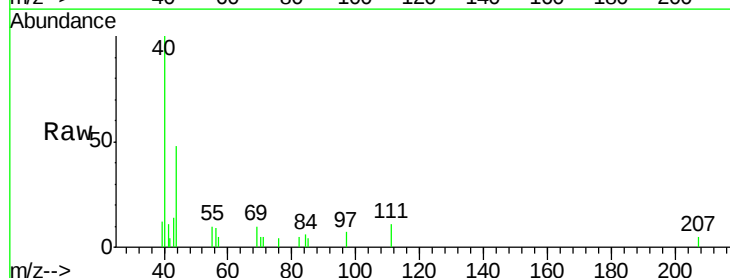
Acq: 14 Mar 2019 16:54

Tgt Ion: 76 Resp: 68

Ion Ratio Lower Upper

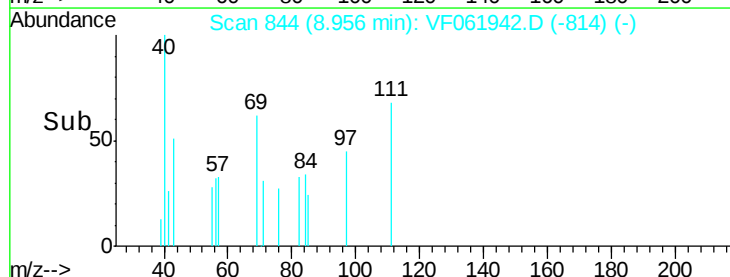
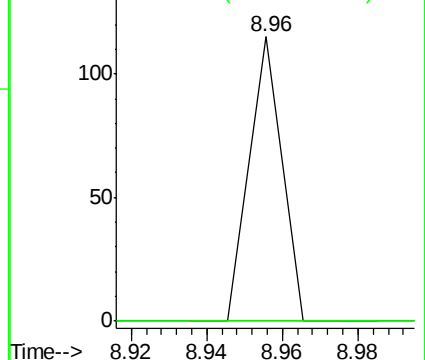
76 100

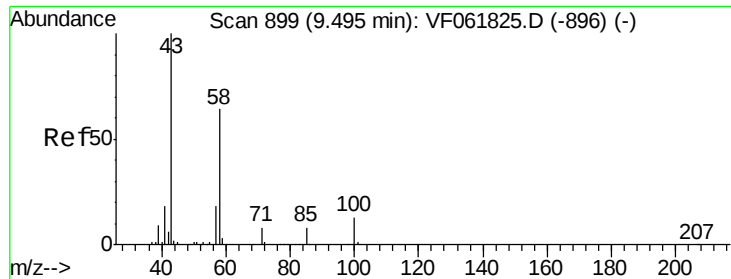
78 0.0 25.4 38.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

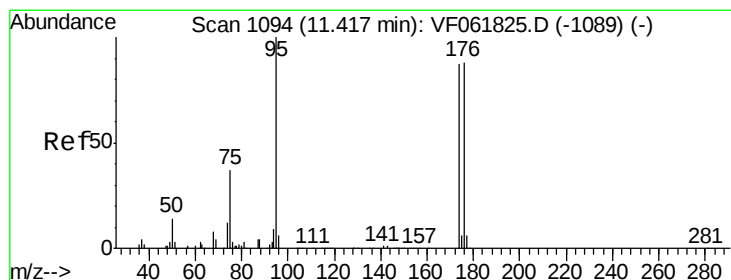
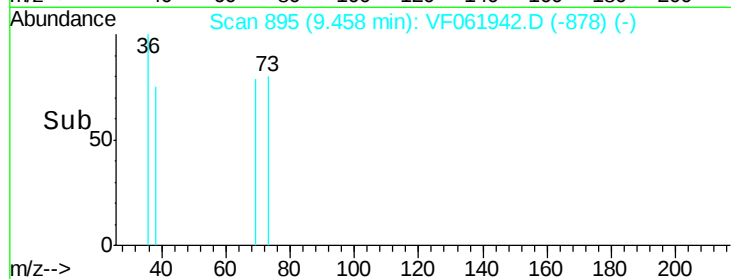
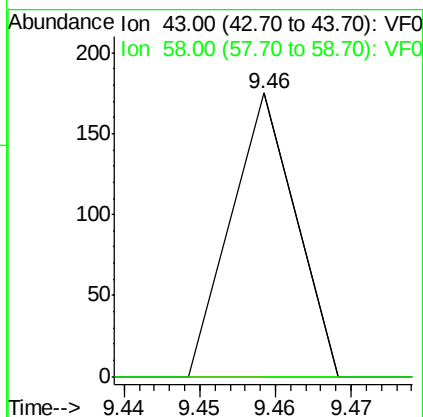
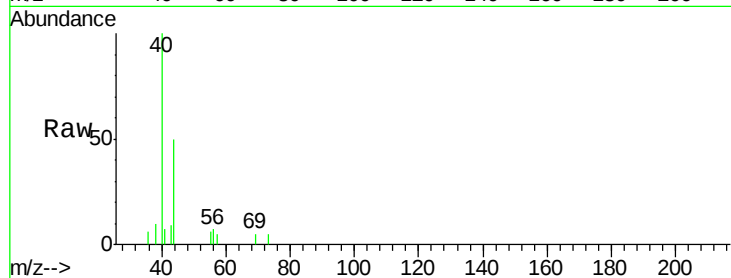




#59
2-Hexanone
Concen: 75.538 ug/l
RT: 9.46 min Scan# 895
Delta R.T. -0.04 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

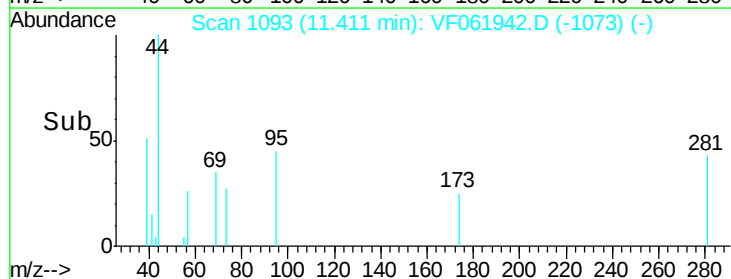
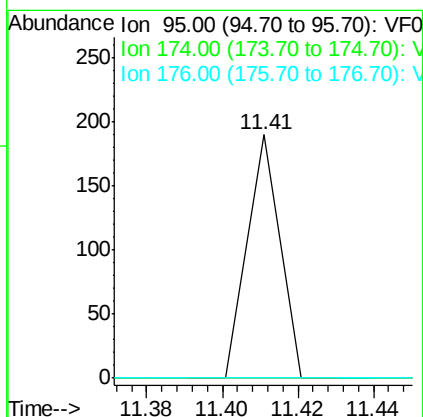
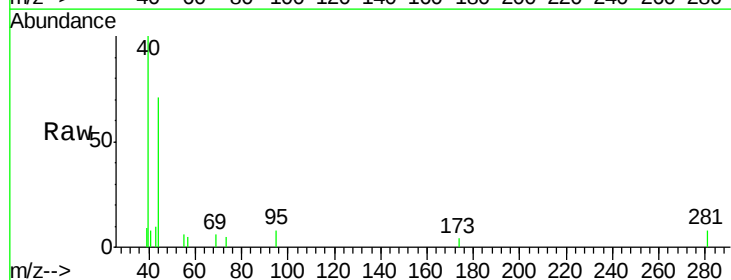
Instrument :
MSVOA_F
ClientSampleId :
ORG-031419

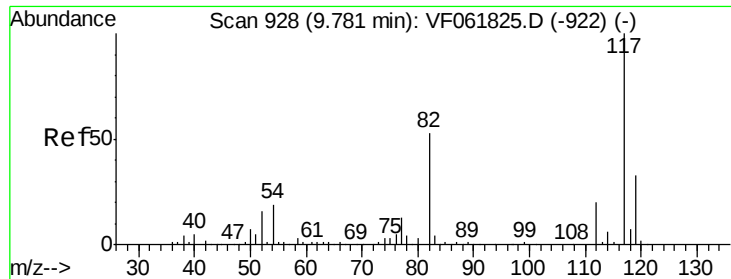
Tot Ion: 43 Resp: 104
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 24.396 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Tgt Ion: 95 Resp: 112
Ion Ratio Lower Upper
95 100
174 0.0 0.0 174.0
176 0.0 0.0 175.2

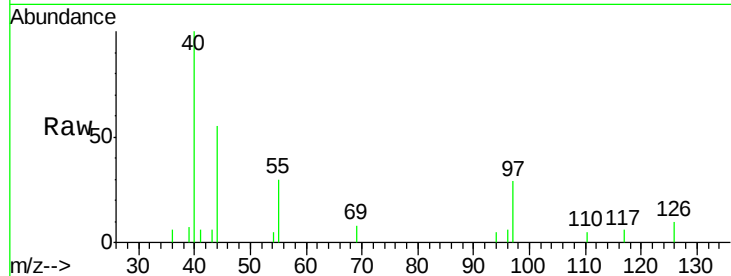




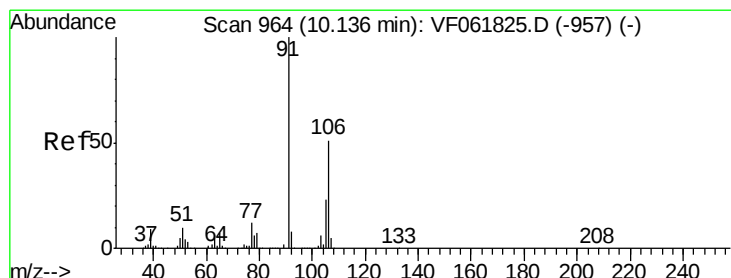
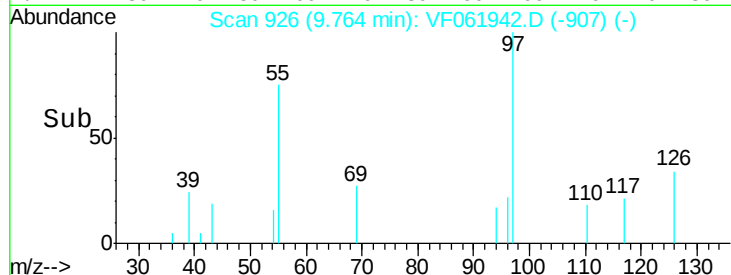
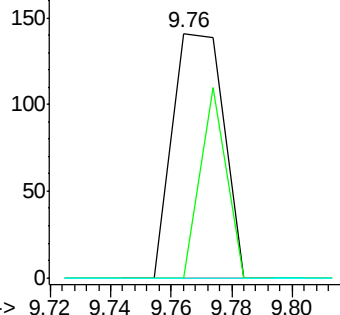
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Instrument :
MSVOA_F
ClientSampleId :
ORG-031419

Tot Ion:117 Resp: 166
Ion Ratio Lower Upper
117 100
82 0.0 42.6 63.8#
119 0.0 26.0 39.0#

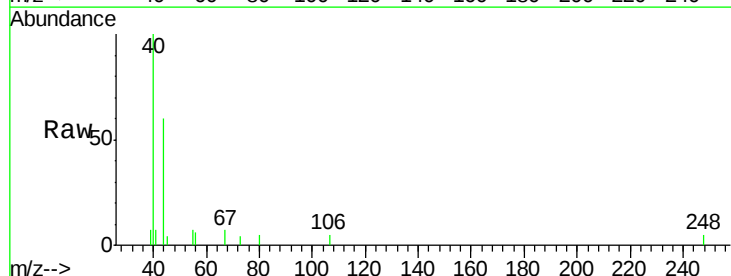


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

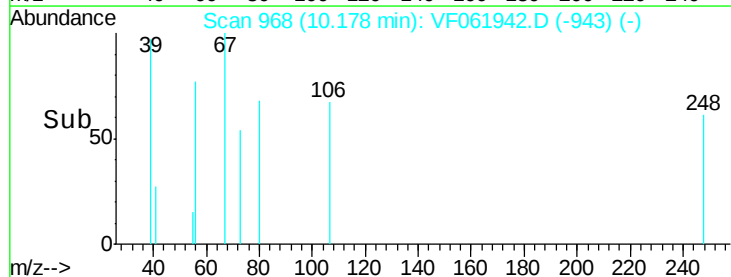
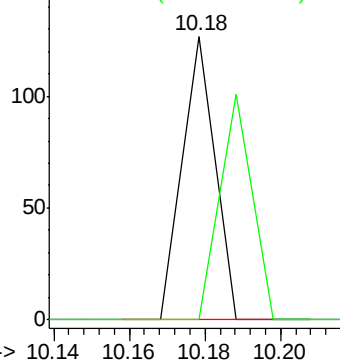


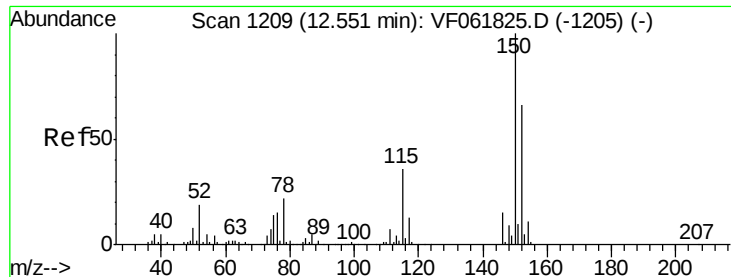
#68
m/p-Xylenes
Concen: 37.037 ug/l
RT: 10.18 min Scan# 968
Delta R.T. 0.04 min
Lab File: VF061942.D
Acq: 14 Mar 2019 16:54

Tgt Ion:106 Resp: 75
Ion Ratio Lower Upper
106 100
91 0.0 157.5 236.3#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1192

Delta R.T. -0.16 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

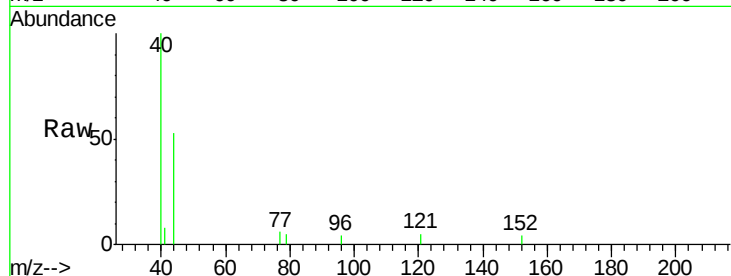
Tot Ion:152 Resp: 66

Ion Ratio Lower Upper

152 100

115 0.0 27.7 83.1#

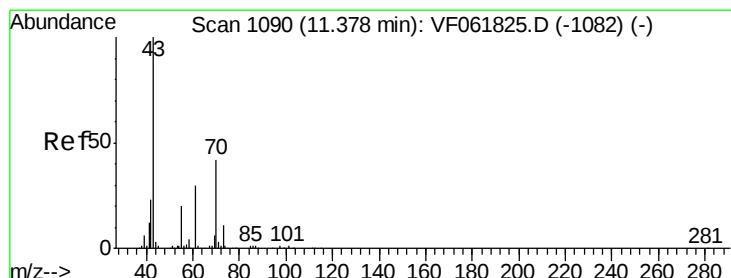
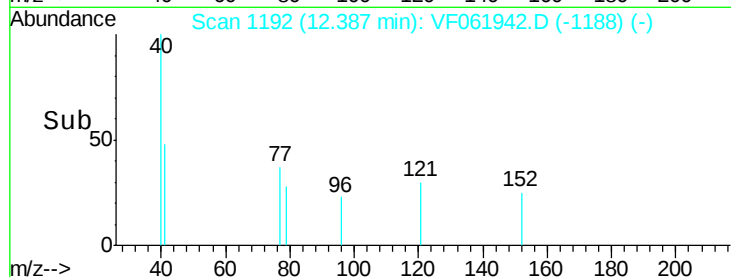
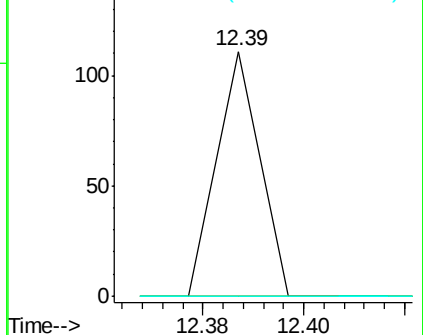
150 0.0 0.0 304.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 201.714 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Tgt Ion: 43 Resp: 211

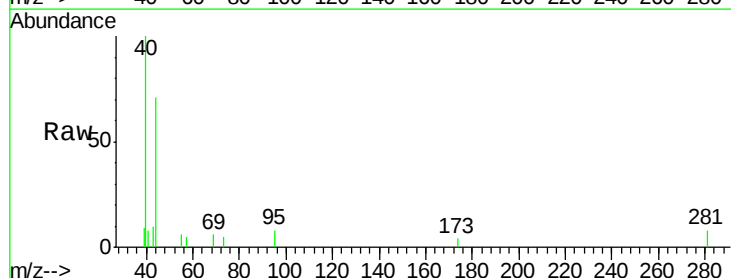
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 62.8 16.3 24.5#

61 0.0 24.0 36.0#

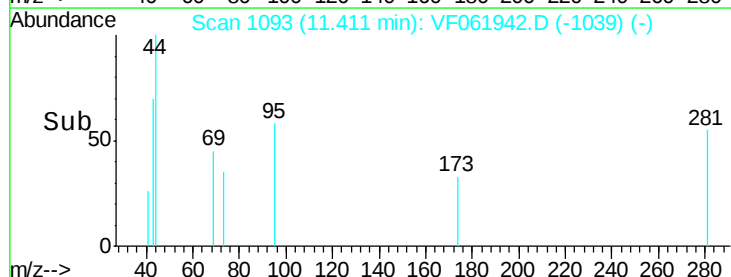
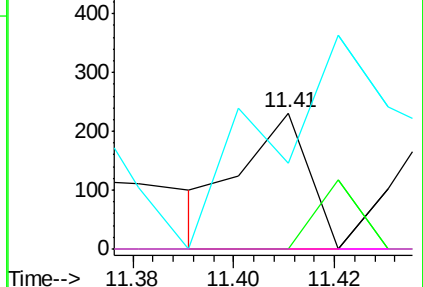


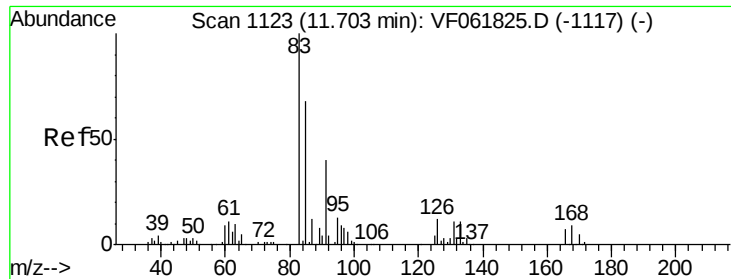
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 92.693 ug/l

RT: 11.79 min Scan# 1131

Delta R.T. 0.08 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

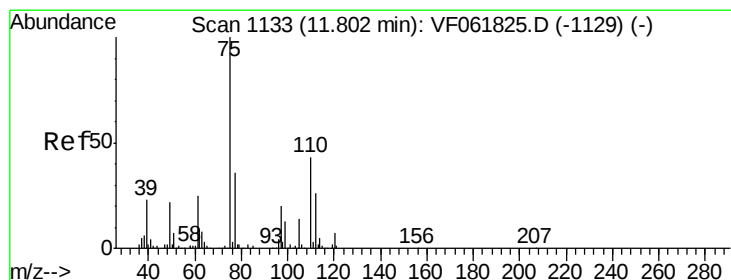
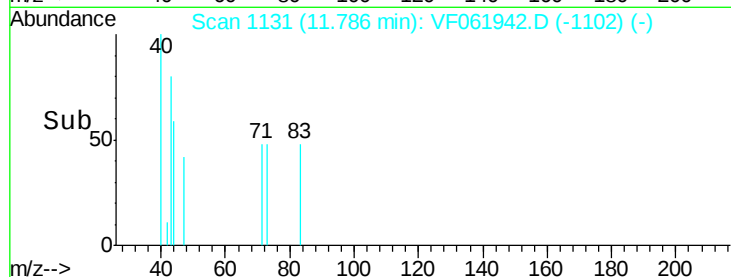
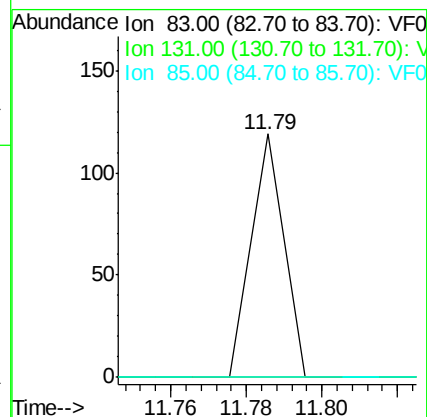
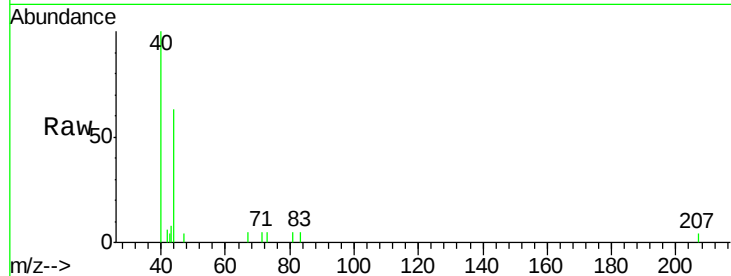
Tot Ion: 83 Resp: 70

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

85 0.0 34.2 102.6#



#76

1,2,3-Trichloropropane

Concen: 139.693 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.12 min

Lab File: VF061942.D

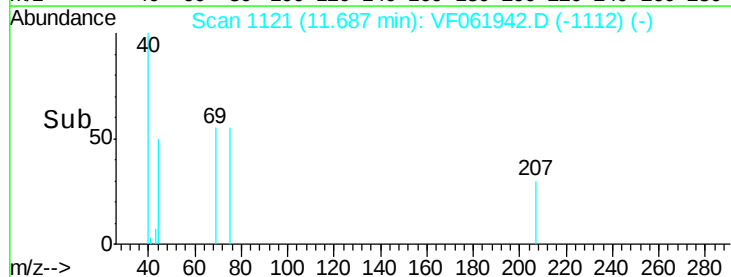
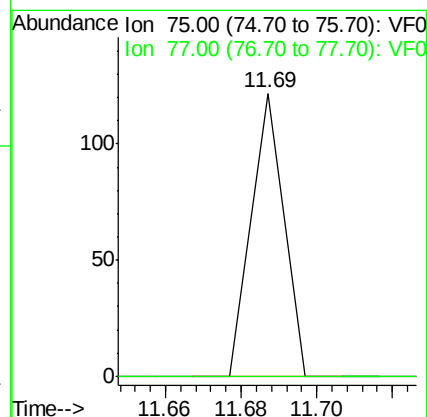
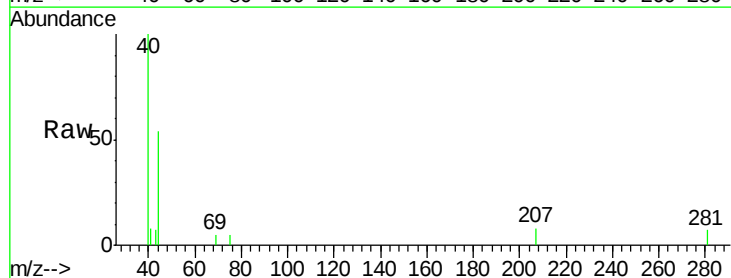
Acq: 14 Mar 2019 16:54

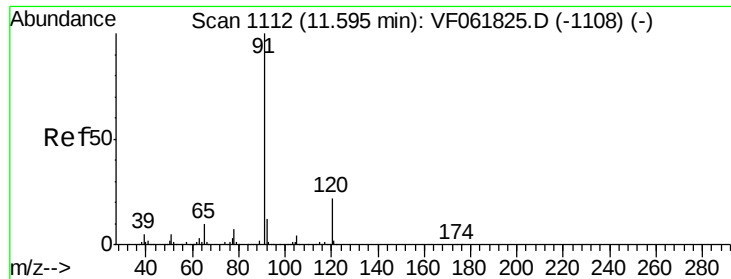
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 18.1 54.4#

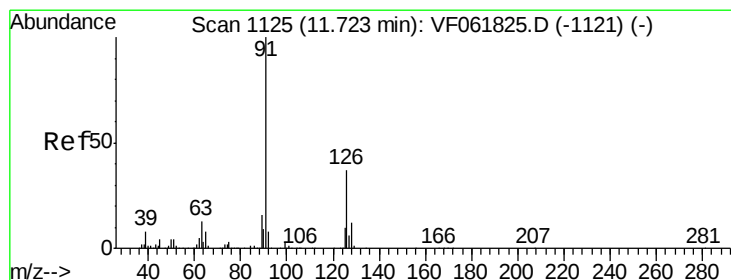
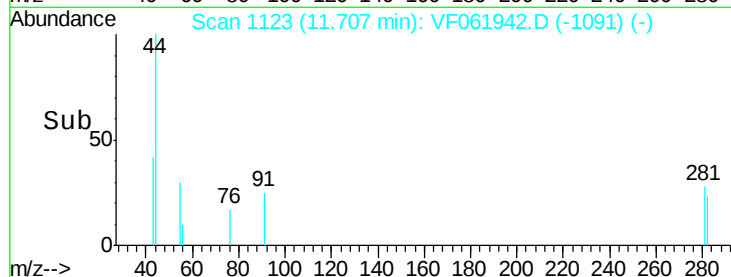
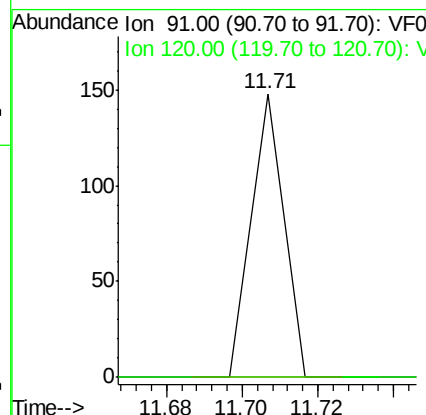
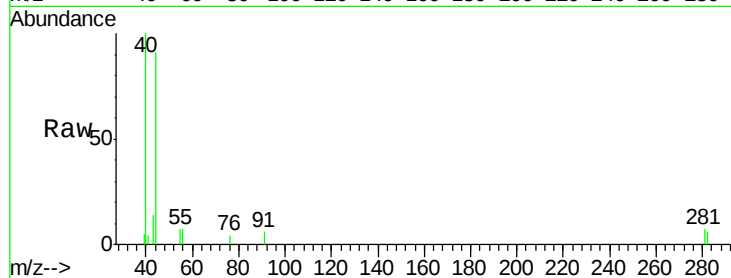




#78
 n-propylbenzene
 Concen: 17.150 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. 0.11 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

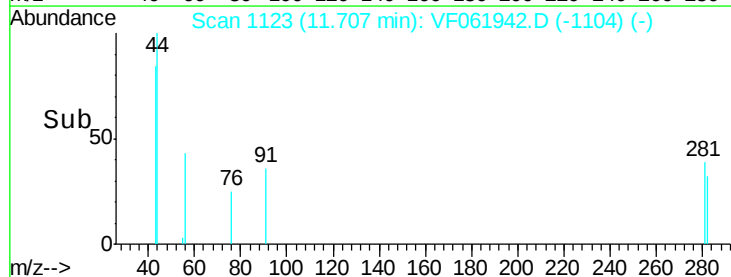
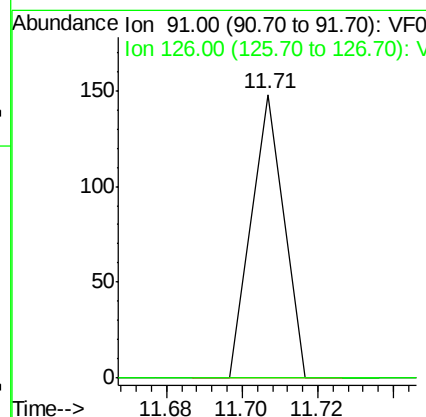
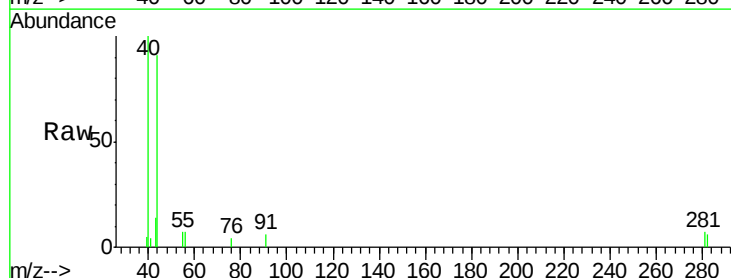
Instrument :
 MSVOA_F
 ClientSampleId :
 ORG-031419

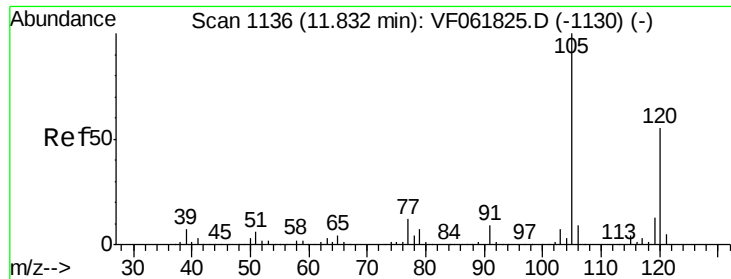
Tot Ion: 91 Resp: 88
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.1 33.1#



#79
 2-Chlorotoluene
 Concen: 29.997 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. -0.02 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

Tgt Ion: 91 Resp: 88
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#





#80

1,3,5-Trimethylbenzene

Concen: 18.092 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

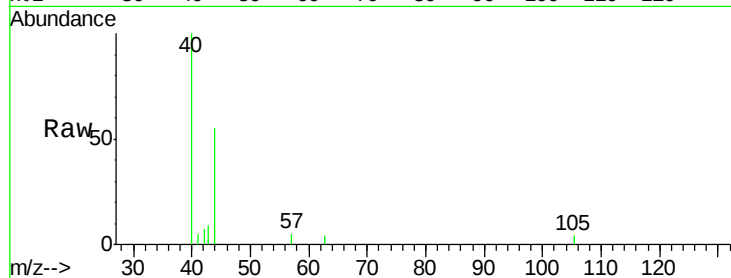
ORG-031419

Tot Ion:105 Resp: 66

Ion Ratio Lower Upper

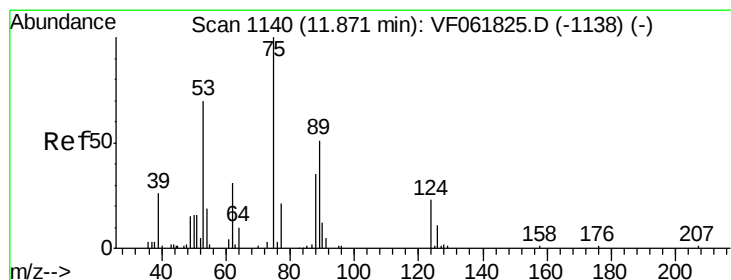
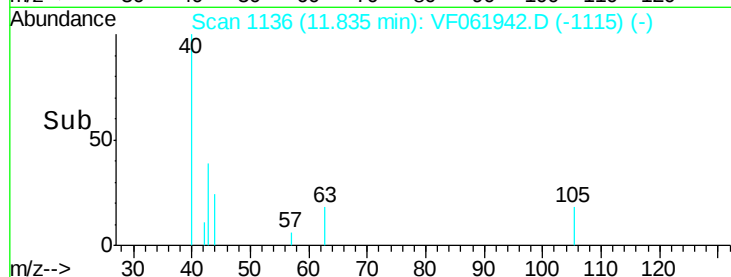
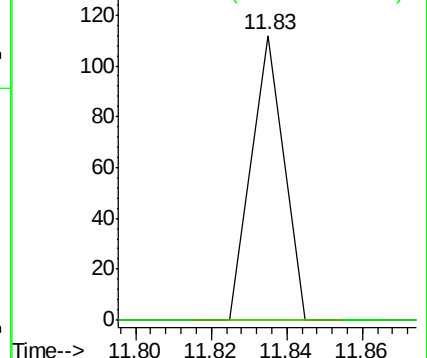
105 100

120 0.0 27.4 82.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 390.354 ug/l

RT: 12.00 min Scan# 1153

Delta R.T. 0.13 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

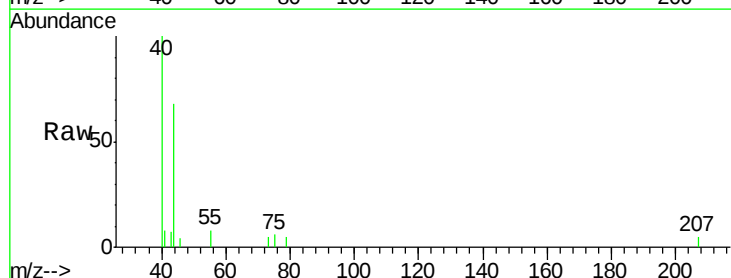
Tgt Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

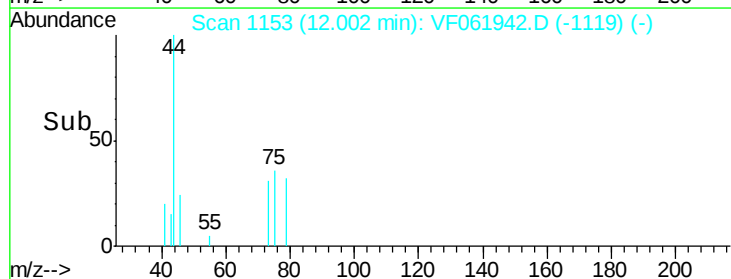
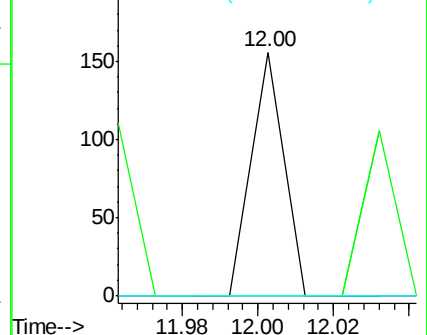
89 0.0 41.4 62.0#

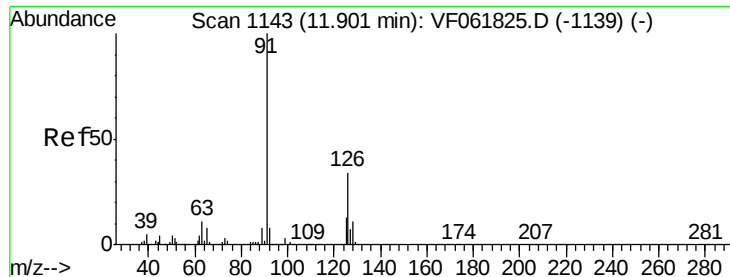


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

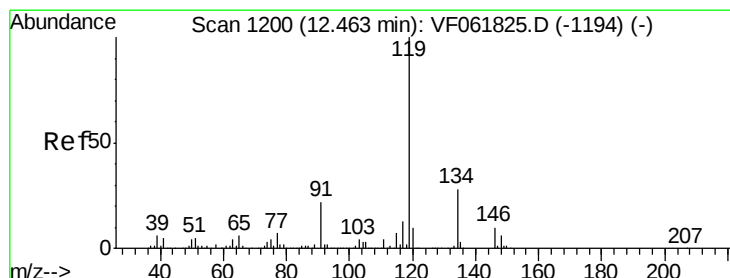
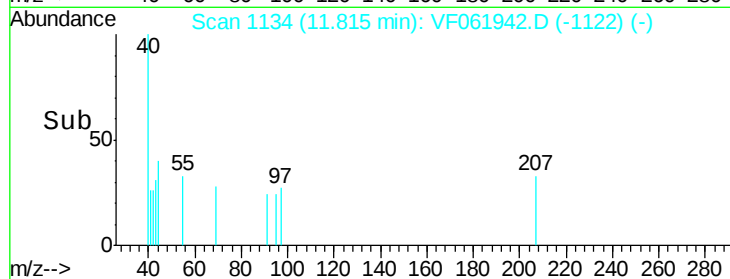
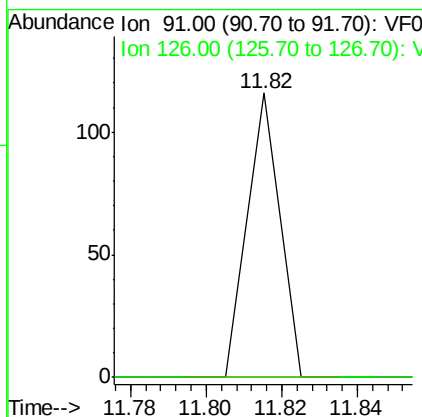
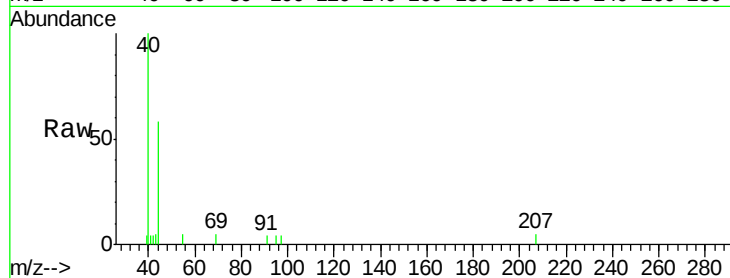




#82
 4-Chlorotoluene
 Concen: 22.995 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. -0.09 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

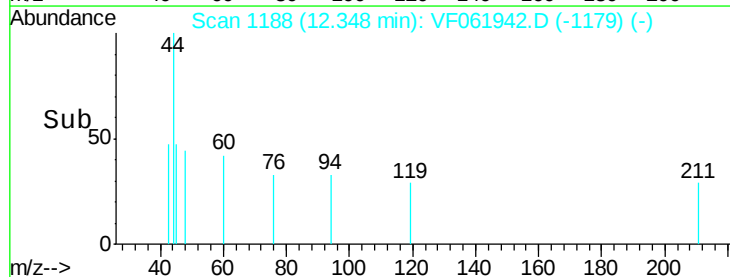
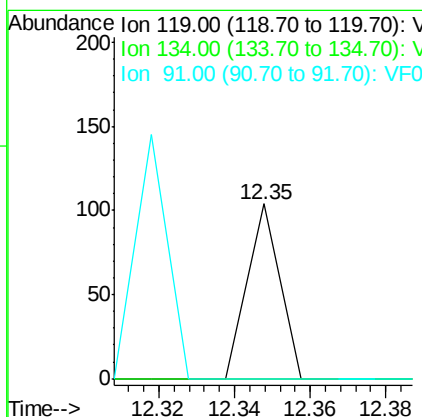
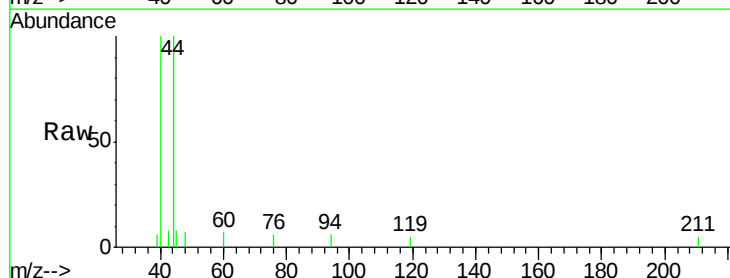
Instrument :
 MSVOA_F
 ClientSampleId :
 ORG-031419

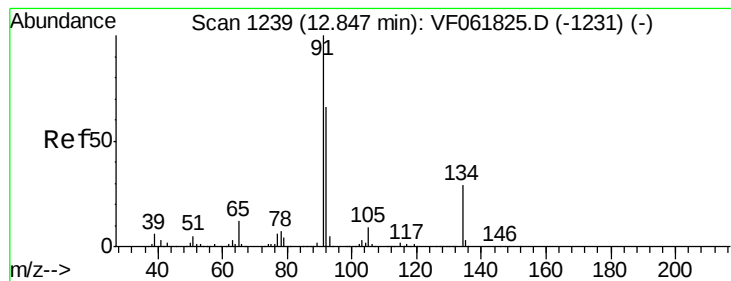
Tot Ion: 91 Resp: 69
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 50.9#



#86
 p-Isopropyltoluene
 Concen: 14.469 ug/l
 RT: 12.35 min Scan# 1188
 Delta R.T. -0.12 min
 Lab File: VF061942.D
 Acq: 14 Mar 2019 16:54

Tgt Ion: 119 Resp: 62
 Ion Ratio Lower Upper
 119 100
 134 0.0 14.0 42.0#
 91 0.0 11.1 33.3#





#89

n-Butylbenzene

Concen: 21.734 ug/l

RT: 12.88 min Scan# 1242

Delta R.T. 0.03 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419

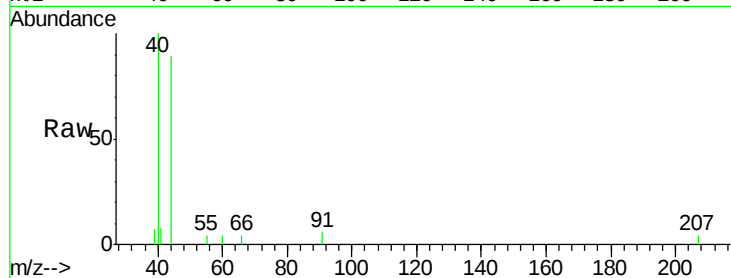
Tot Ion: 91 Resp: 89

Ion Ratio Lower Upper

91 100

92 0.0 32.9 98.6#

134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

12.88

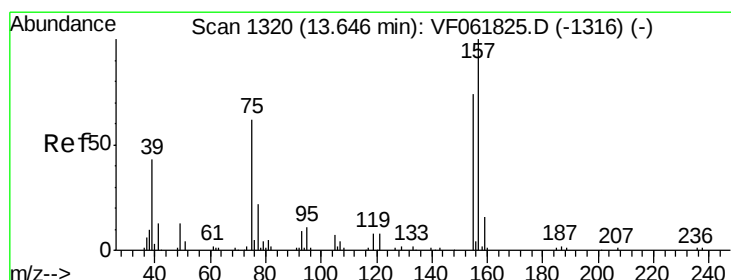
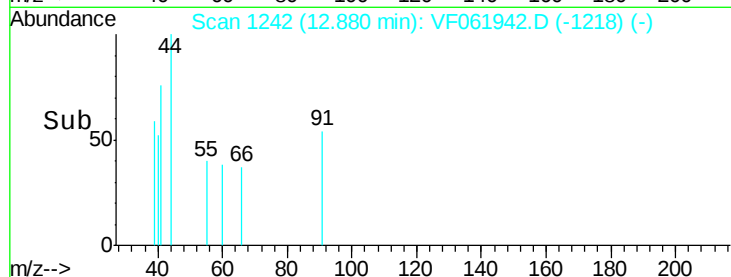
150

100

50

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 462.082 ug/l

RT: 13.78 min Scan# 1333

Delta R.T. 0.13 min

Lab File: VF061942.D

Acq: 14 Mar 2019 16:54

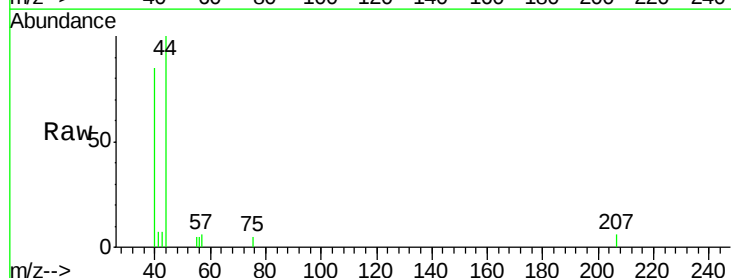
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 59.8 179.4#

157 0.0 81.2 243.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.78

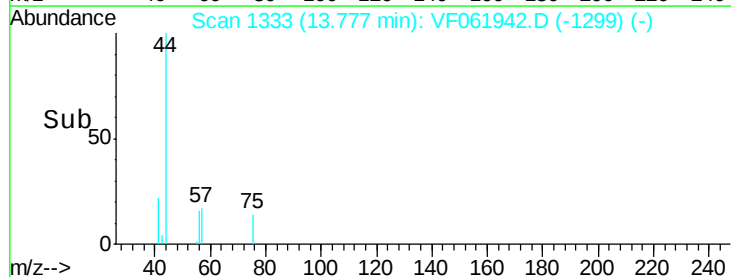
150

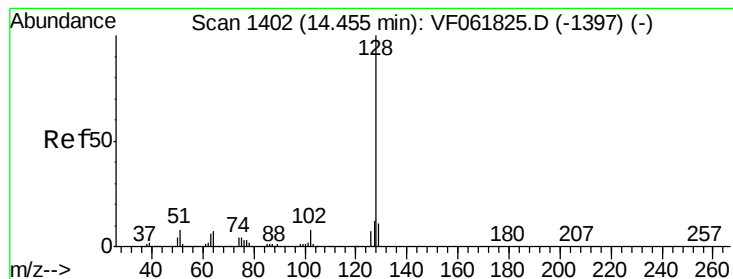
100

50

0

Time-->





#95

Naphthalene

Concen: 26.461 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF061942.D

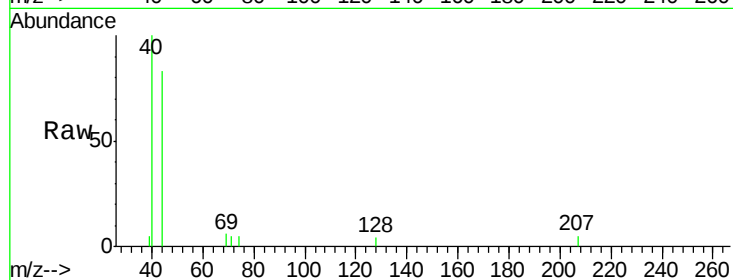
Acq: 14 Mar 2019 16:54

Instrument :

MSVOA_F

ClientSampleId :

ORG-031419



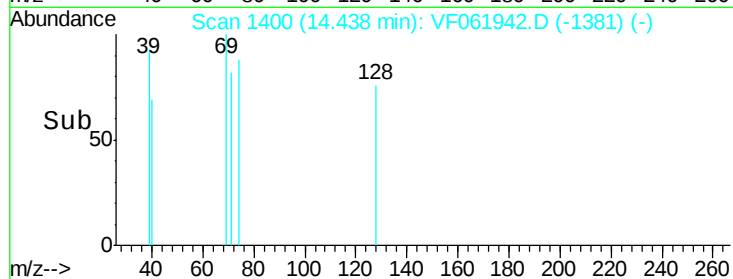
Tot Ion:128 Resp: 65

Ion Ratio Lower Upper

128 100

127 0.0 9.3 13.9#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

