

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051119\
 Data File : VF062489.D
 Acq On : 12 May 2019 6:10
 Operator : FY/SY
 Sample : K2756-06
 Misc : 5.35g/5mL/MSVOA_F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

Quant Time: May 12 10:06:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	18687	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	12722	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	3560	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	76	50.00	ug/l	0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	1605	9.09	ug/l	0.01
Spiked Amount	50.000		Recovery	=	18.18%	
35) Dibromofluoromethane	4.31	113	3716	36.66	ug/l	0.01
Spiked Amount	50.000		Recovery	=	73.32%	
50) Toluene-d8	7.73	98	6163	25.12	ug/l	0.02
Spiked Amount	50.000		Recovery	=	50.24%	
62) 4-Bromofluorobenzene	11.53	95	334	3.02	ug/l	0.04
Spiked Amount	50.000		Recovery	=	6.04%	

Target Compounds					Qvalue
5) Bromomethane	1.40	94	206	Below Cal	# 78
8) Diethyl Ether	1.75	74	62	1.388	ug/l # 1
11) Tert butyl alcohol	2.68	59	185	18.535	ug/l # 70
12) 1,1-Dichloroethene	1.87	96	381	2.659	ug/l # 1
13) Acrolein	2.13	56	76	Below Cal	# 1
14) Allyl chloride	2.22	41	222	1.754	ug/l # 43
15) Acrylonitrile	3.03	53	61	3.226	ug/l # 1
16) Acetone	2.37	43	259	7.250	ug/l # 62
18) Methyl Acetate	2.47	43	449	4.011	ug/l # 90
20) Methylene Chloride	2.29	84	365	2.824	ug/l # 60
23) Vinyl Acetate	3.38	43	315	1.787	ug/l # 79
25) 2-Butanone	4.55	43	229	5.102	ug/l # 60
29) Tetrahydrofuran	4.31	42	358	17.355	ug/l # 36
37) Ethyl Acetate	4.31	43	288	1.675	ug/l # 73
38) Carbon Tetrachloride	4.21	117	133	Below Cal	# 1
41) Methacrylonitrile	4.98	41	503	19.195	ug/l # 35
43) Isopropyl Acetate	7.12	43	143	2.877	ug/l # 48
44) Trichloroethene	5.76	130	138	1.561	ug/l 2
45) 1,2-Dichloropropane	6.27	63	72	1.321	ug/l # 43
46) Dibromomethane	6.01	93	63	1.394	ug/l # 56
48) Methyl methacrylate	6.92	41	273	7.771	ug/l # 1
51) 4-Methyl-2-Pentanone	8.44	43	127	3.372	ug/l # 40
53) t-1,3-Dichloropropene	8.48	75	91	1.065	ug/l # 17
55) 1,1,2-Trichloroethane	8.84	97	65	1.379	ug/l # 14
56) Ethyl methacrylate	8.96	69	75	1.508	ug/l # 1
57) 1,3-Dichloropropane	9.02	76	73	1.025	ug/l # 1
58) 2-Chloroethyl Vinyl ether	7.44	63	229	15.310	ug/l # 42
59) 2-Hexanone	9.58	43	149	5.720	ug/l 96
61) 1,2-Dibromoethane	9.37	107	117	2.112	ug/l 85
64) Tetrachloroethene	8.54	164	71	2.457	ug/l # 1
65) Chlorobenzene	9.98	112	71	1.205	ug/l # 43
69) o-Xylene	11.06	106	72	1.751	ug/l # 29
70) Styrene	10.90	104	78	1.266	ug/l # 54
71) Bromoform	11.13	173	66	4.054	ug/l # 29

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051119\
 Data File : VF062489.D
 Acq On : 12 May 2019 6:10
 Operator : FY/SY
 Sample : K2756-06
 Misc : 5.35g/5mL/MSVOA_F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

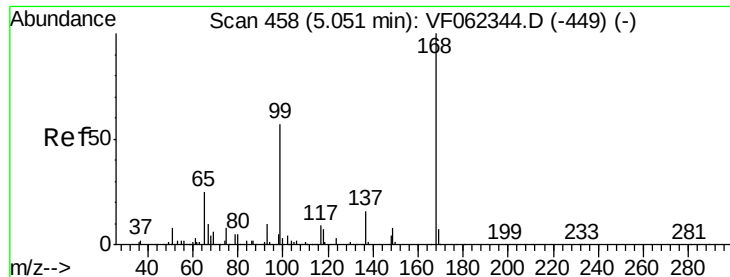
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

Quant Time: May 12 10:06:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

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

73) Isopropylbenzene	11.22	105	67	14.871	ug/l #	50
74) N-amyl acetate	11.23	43	358	370.108	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.67	83	85	120.489	ug/l #	22
76) 1,2,3-Trichloropropane	11.77	75	64	118.910	ug/l #	100
77) Bromobenzene	11.38	156	69	58.352	ug/l #	1
78) n-propylbenzene	11.88	91	66	13.759	ug/l #	52
79) 2-Chlorotoluene	11.88	91	66	22.127	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.74	105	64	16.206	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.97	75	117	578.318	ug/l #	59
82) 4-Chlorotoluene	11.91	91	125	42.430	ug/l #	39
83) tert-Butylbenzene	12.08	119	64	15.421	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.13	105	70	18.113	ug/l #	31
85) sec-Butylbenzene	12.50	105	63	12.471	ug/l #	57
86) p-Isopropyltoluene	12.55	119	164	34.942	ug/l #	47
87) 1,3-Dichlorobenzene	12.62	146	63	29.172	ug/l #	25
88) 1,4-Dichlorobenzene	12.62	146	63	30.225	ug/l #	25
89) n-Butylbenzene	12.77	91	67	16.045	ug/l #	29
90) Hexachloroethane	13.05	117	73	62.292	ug/l #	3
91) 1,2-Dichlorobenzene	12.93	146	74	35.401	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.70	75	70	442.912	ug/l #	35
93) 1,2,4-Trichlorobenzene	14.12	180	79	42.135	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

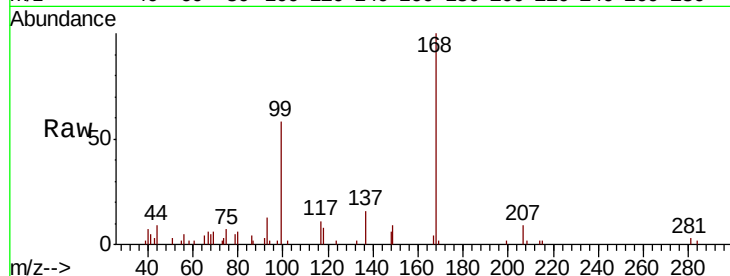
P021-SS006-0002-01

Tgt Ion:168 Resp: 18687

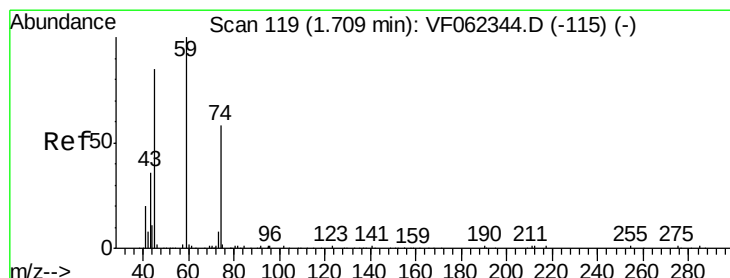
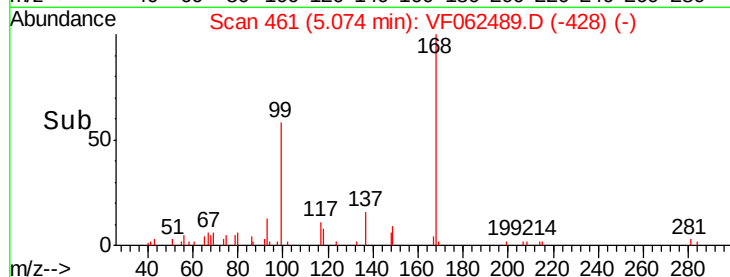
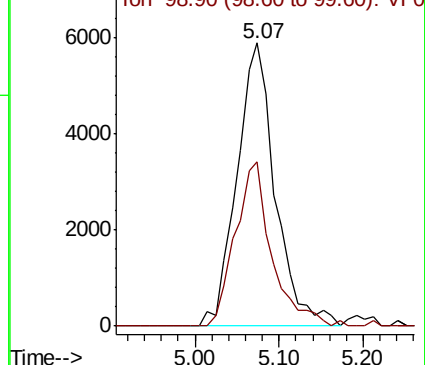
Ion Ratio Lower Upper

168 100

99 58.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#8

Diethyl Ether

Concen: 1.388 ug/l

RT: 1.75 min Scan# 124

Delta R.T. 0.04 min

Lab File: VF062489.D

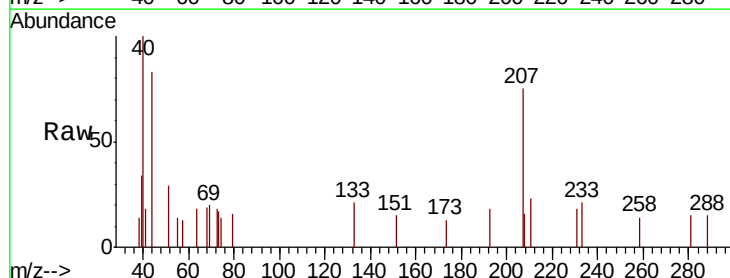
Acq: 12 May 2019 6:10

Tgt Ion: 74 Resp: 62

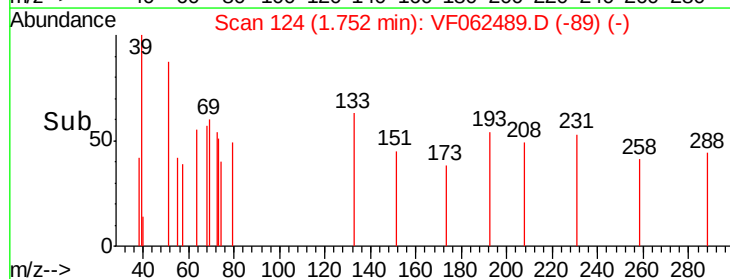
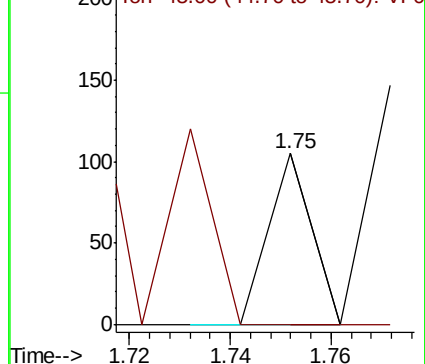
Ion Ratio Lower Upper

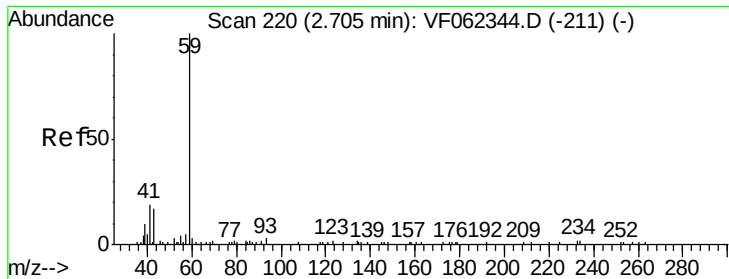
74 100

45 0.0 73.9 221.6#



Abundance Ion 74.00 (73.70 to 74.70): VF0



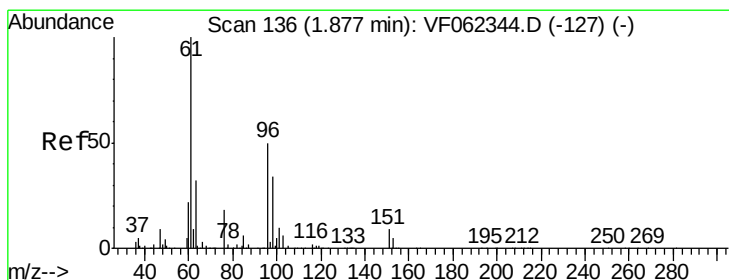
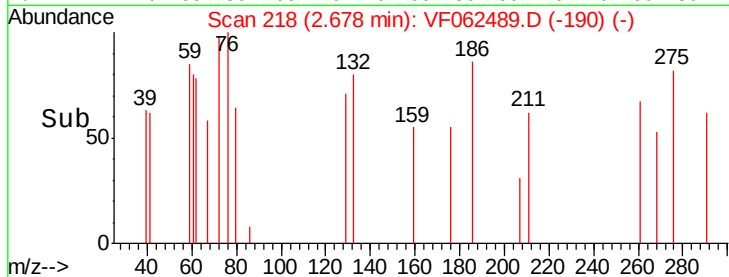
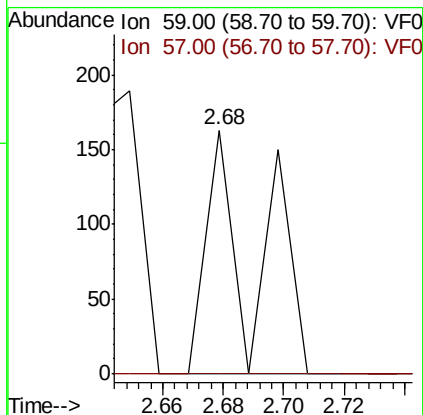
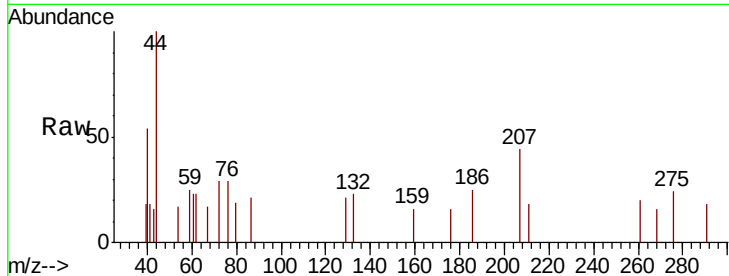


#11

Tert butyl alcohol
 Concen: 18.535 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. -0.03 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

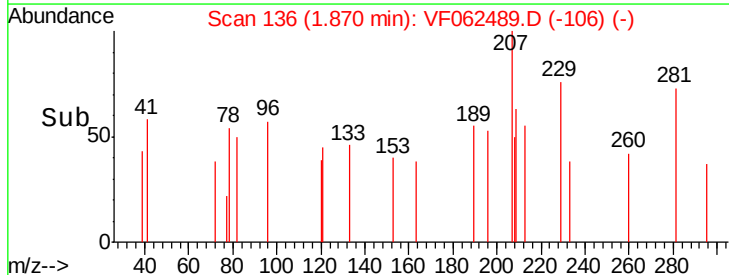
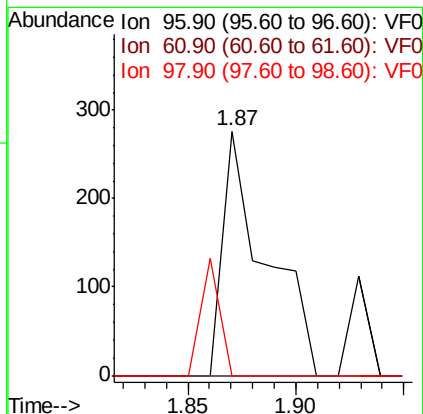
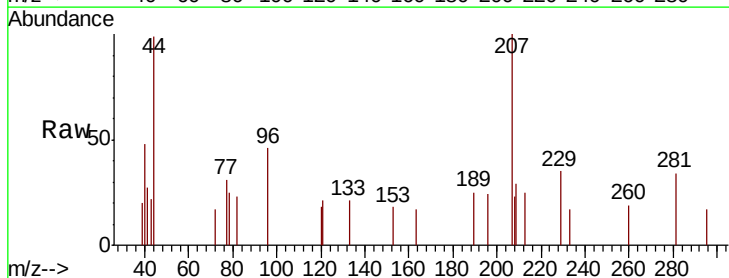
Tgt Ion: 59 Resp: 185
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

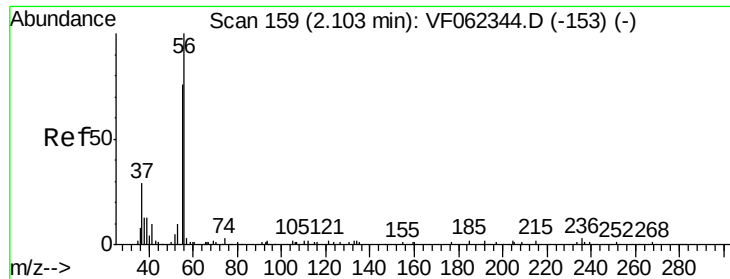


#12

1,1-Dichloroethene
 Concen: 2.659 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. -0.01 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

Tgt Ion: 96 Resp: 381
 Ion Ratio Lower Upper
 96 100
 61 0.0 163.2 244.8#
 98 0.0 55.2 82.8#





#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 162

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

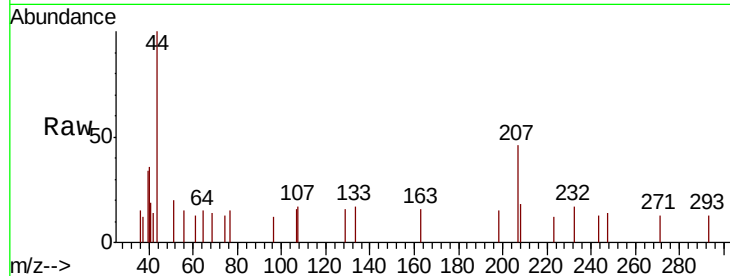
P021-SS006-0002-01

Tgt Ion: 56 Resp: 76

Ion Ratio Lower Upper

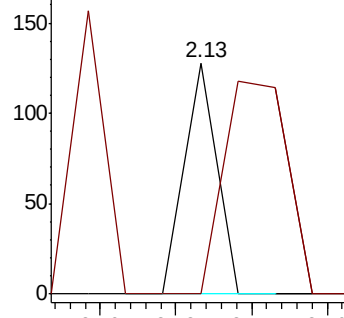
56 100

55 180.3 58.4 87.6#

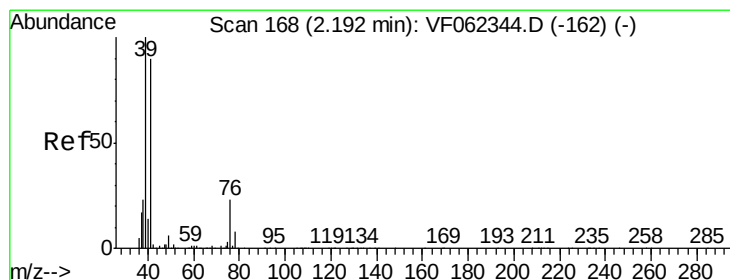
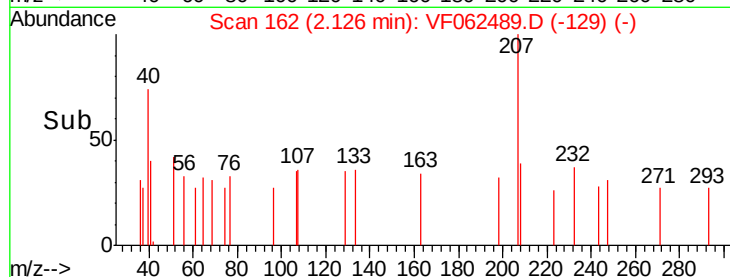


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 1.754 ug/l

RT: 2.22 min Scan# 171

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

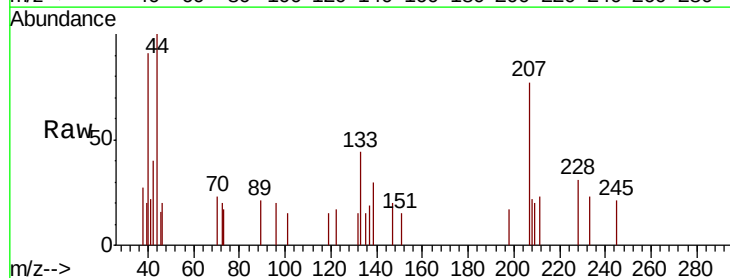
Tgt Ion: 41 Resp: 222

Ion Ratio Lower Upper

41 100

39 175.2 90.8 136.2#

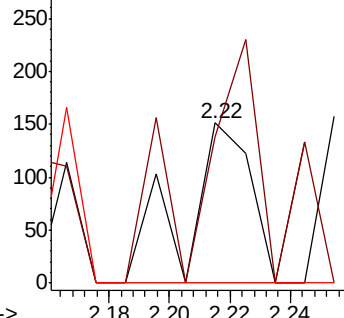
76 0.0 22.2 33.4#



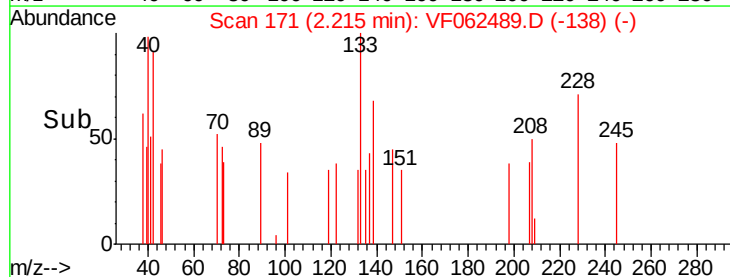
Abundance Ion 41.00 (40.70 to 41.70): VF0

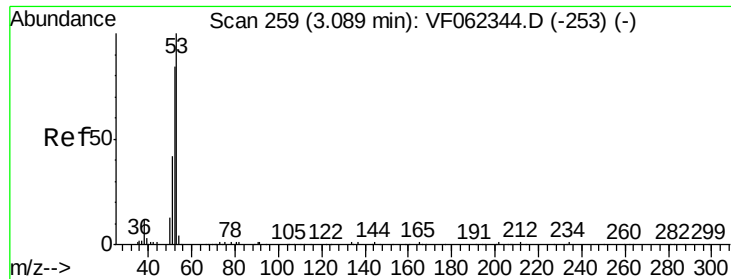
Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0



Time-->





#15

Acrylonitrile

Concen: 3.226 ug/l

RT: 3.03 min Scan# 254

Delta R.T. -0.06 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

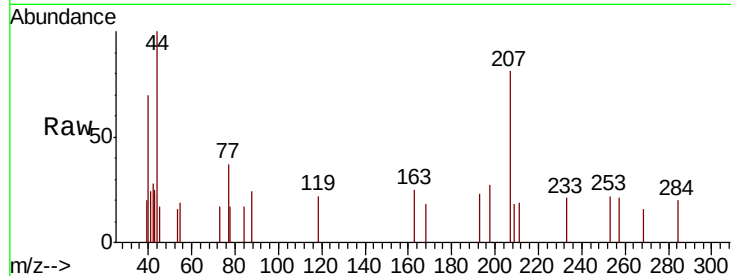
Tgt Ion: 53 Resp: 61

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

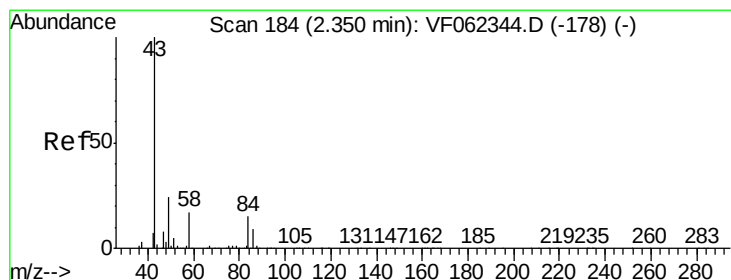
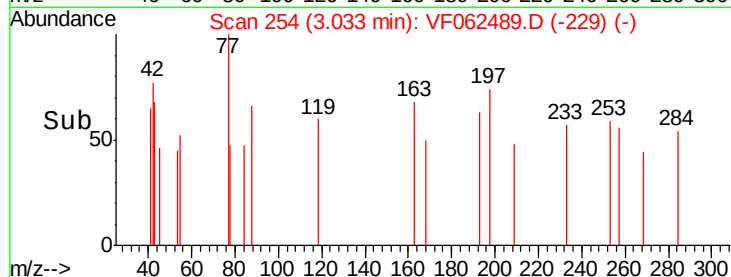
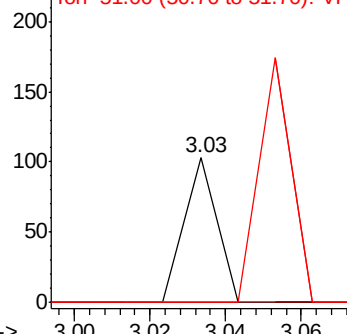
51 168.9 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 7.250 ug/l

RT: 2.37 min Scan# 187

Delta R.T. 0.02 min

Lab File: VF062489.D

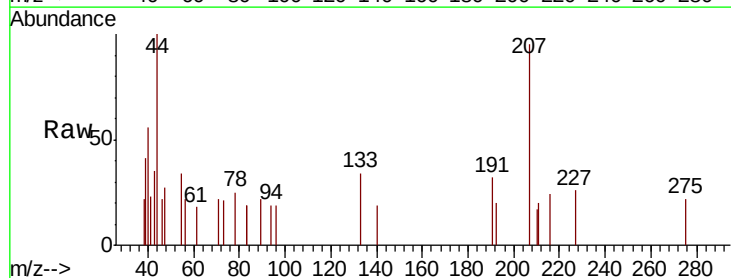
Acq: 12 May 2019 6:10

Tgt Ion: 43 Resp: 259

Ion Ratio Lower Upper

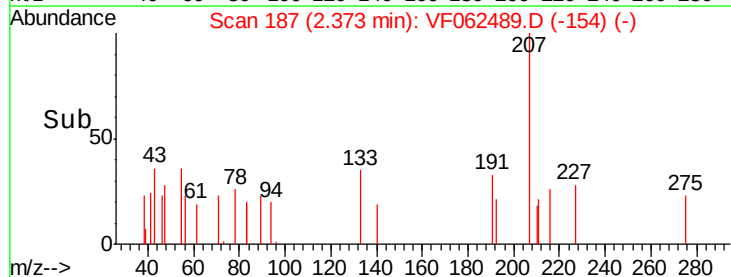
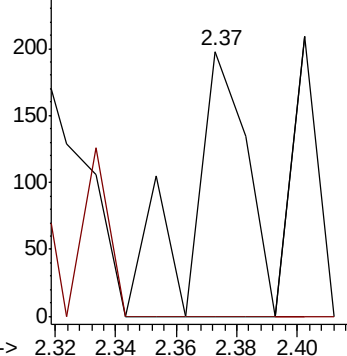
43 100

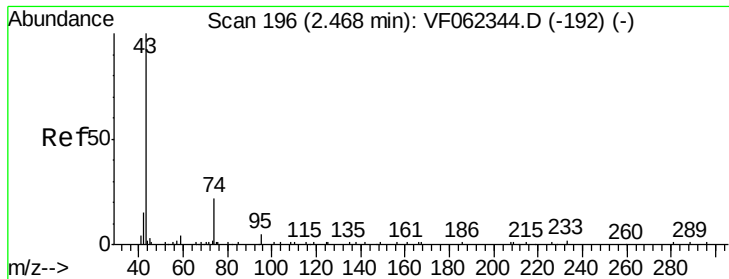
58 0.0 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

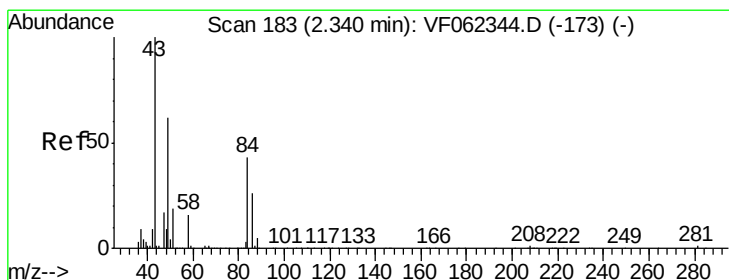
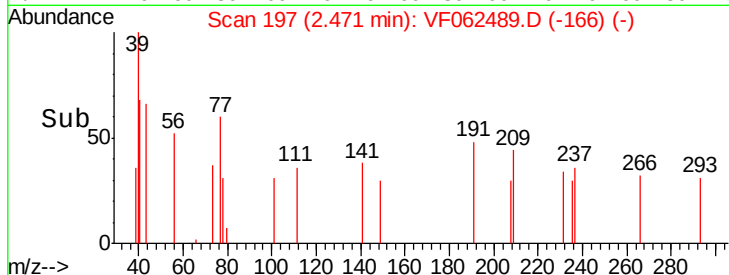
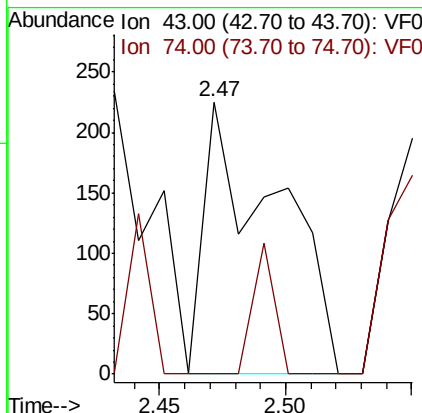
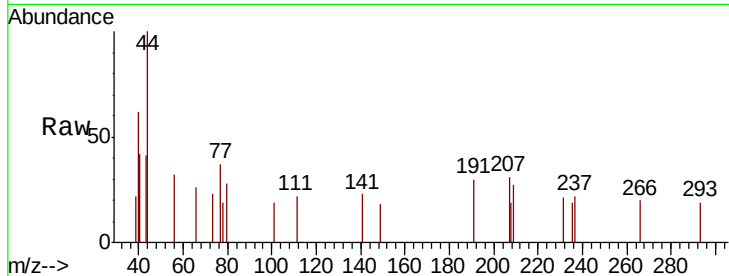




#18
Methyl Acetate
Concen: 4.011 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

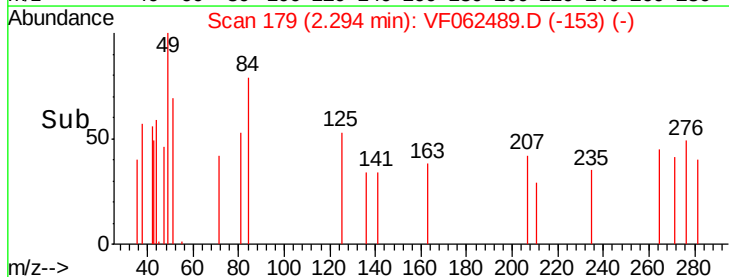
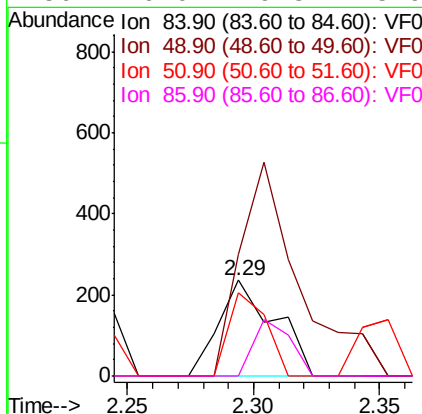
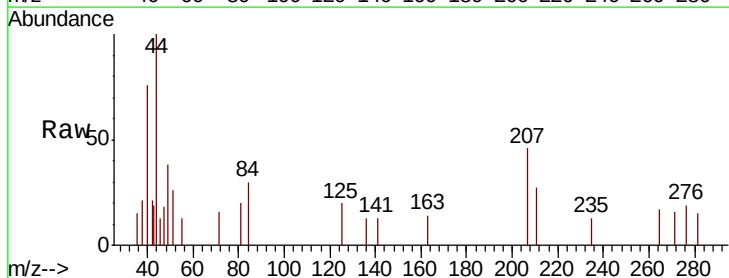
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

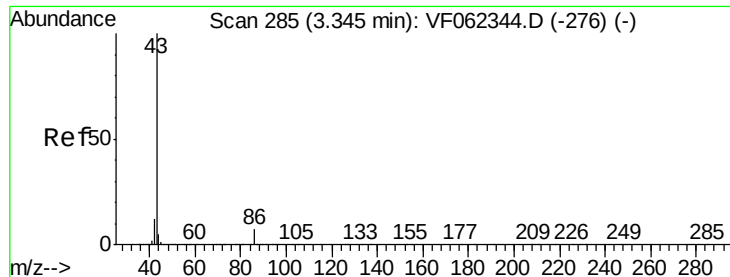
Tgt Ion: 43 Resp: 449
Ion Ratio Lower Upper
43 100
74 14.3 15.0 22.4#



#20
Methylene Chloride
Concen: 2.824 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.05 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion: 84 Resp: 365
Ion Ratio Lower Upper
84 100
49 126.7 117.5 176.3
51 86.9 37.0 55.4#
86 0.0 49.3 73.9#





#23

Vinyl Acetate

Concen: 1.787 ug/l

RT: 3.38 min Scan# 289

Delta R.T. 0.03 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

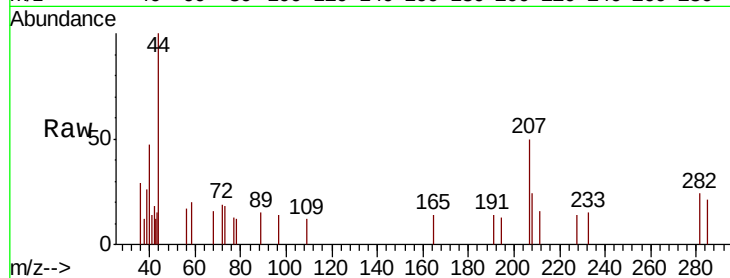
P021-SS006-0002-01

Tgt Ion: 43 Resp: 315

Ion Ratio Lower Upper

43 100

86 0.0 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

250

200

150

100

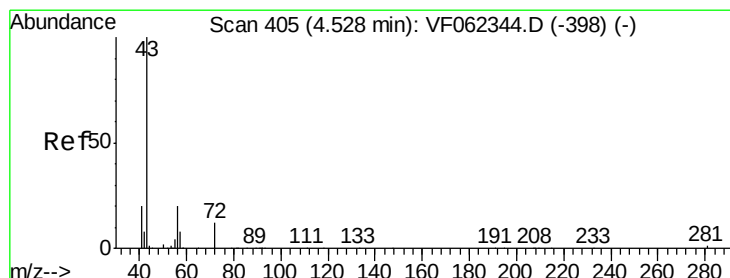
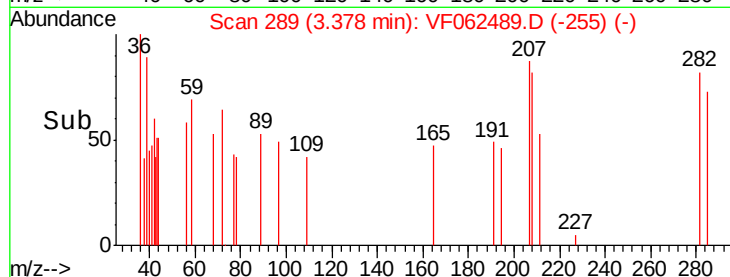
50

0

3.35

3.40

Time-->



#25

2-Butanone

Concen: 5.102 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF062489.D

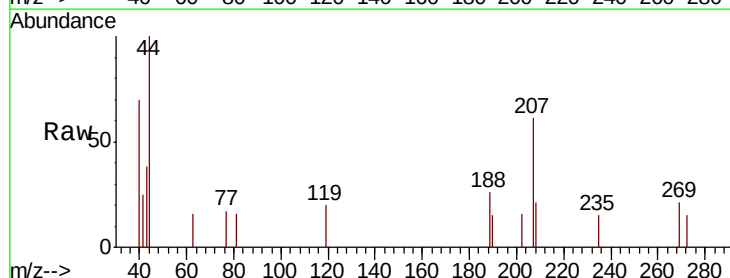
Acq: 12 May 2019 6:10

Tgt Ion: 43 Resp: 229

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

300

250

200

150

100

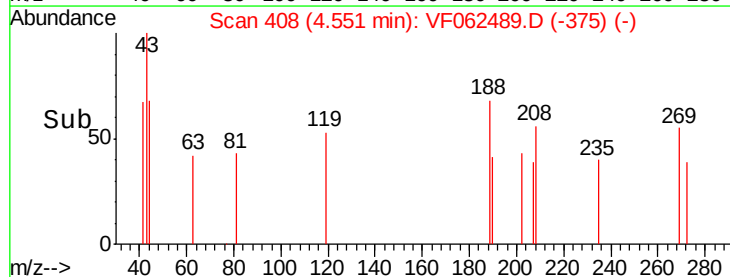
50

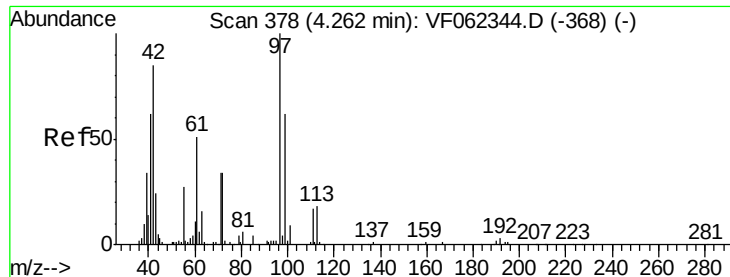
0

4.50

4.55

Time-->





#29

Tetrahydrofuran

Concen: 17.355 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.05 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

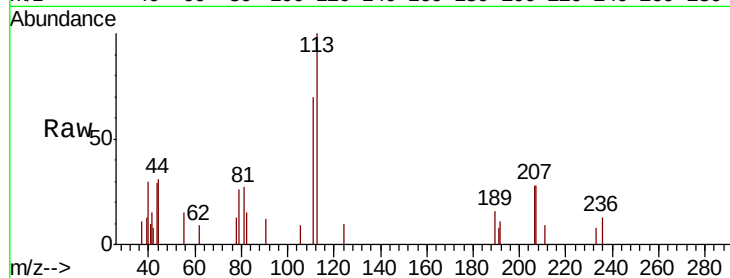
Tgt Ion: 42 Resp: 358

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

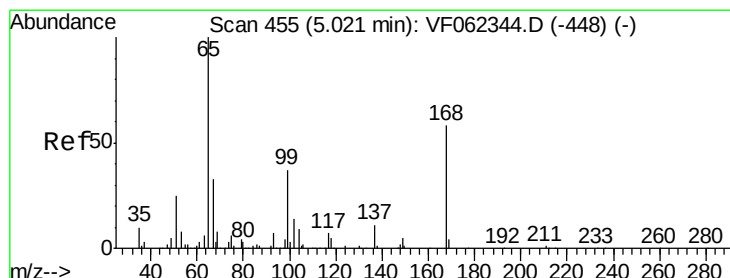
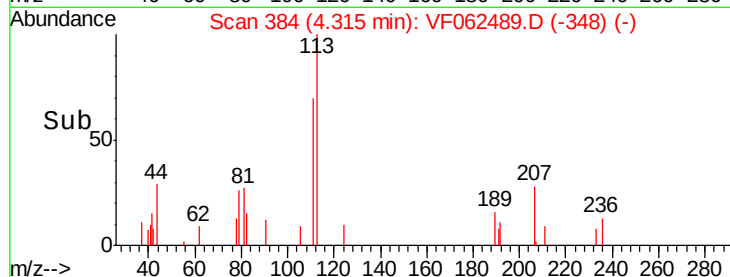
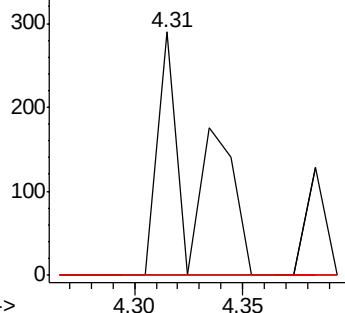
71 0.0 31.7 47.5#



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



#33

1,2-Dichloroethane-d4

Concen: 9.088 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062489.D

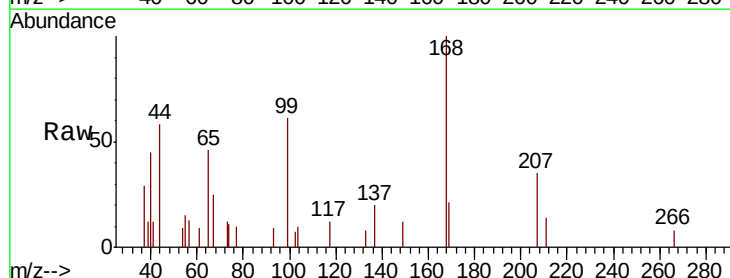
Acq: 12 May 2019 6:10

Tgt Ion: 65 Resp: 1605

Ion Ratio Lower Upper

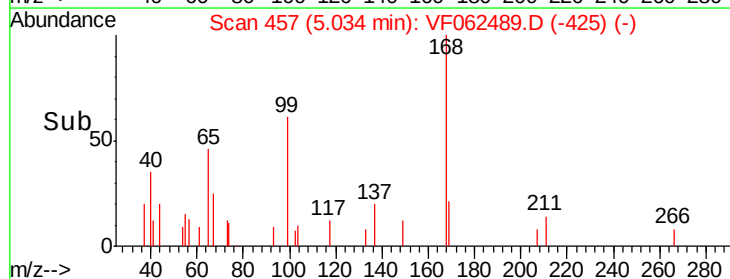
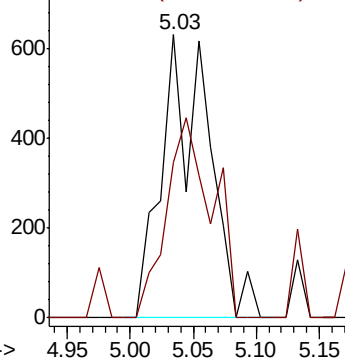
65 100

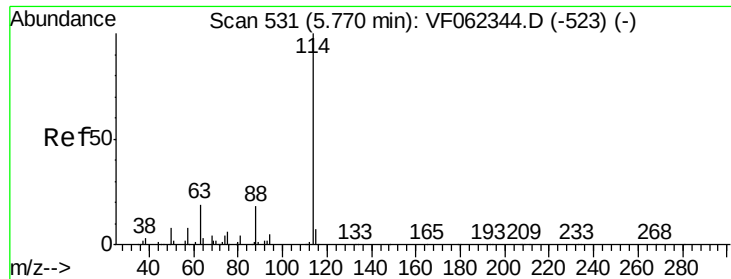
67 69.8 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

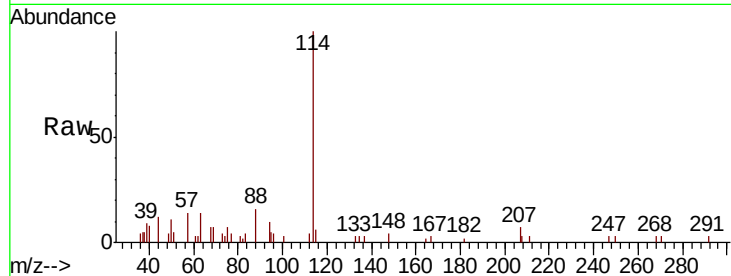
Tgt Ion:114 Resp: 12722

Ion Ratio Lower Upper

114 100

63 13.8 0.0 37.4

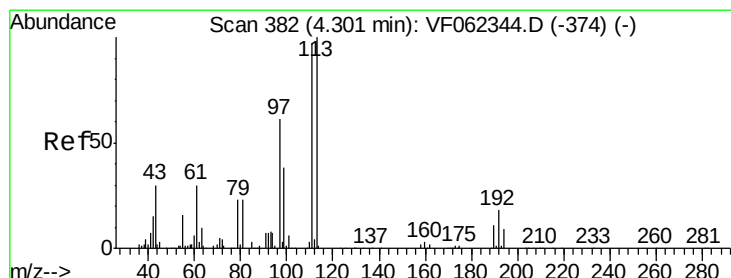
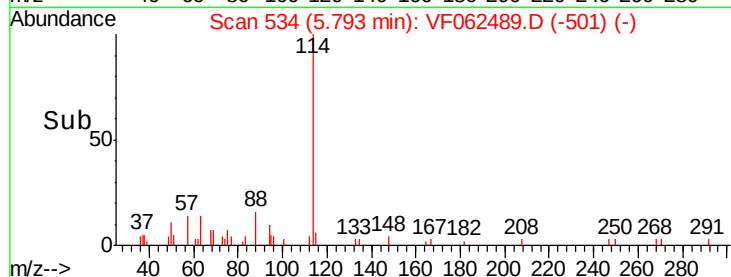
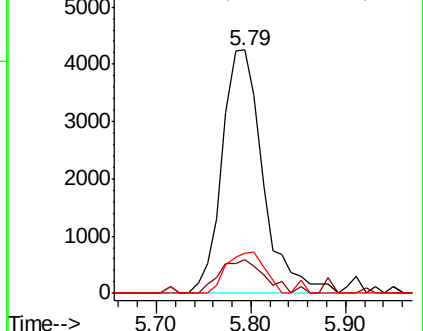
88 16.2 0.0 36.4



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



#35

Dibromofluoromethane

Concen: 36.664 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

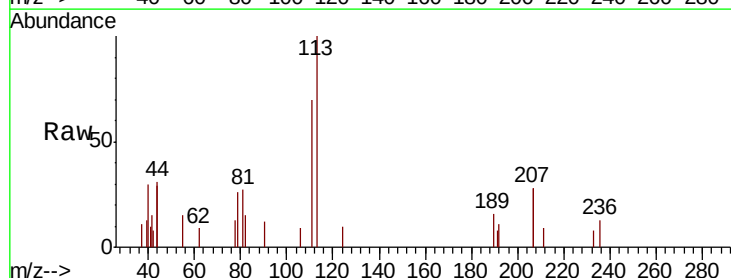
Tgt Ion:113 Resp: 3716

Ion Ratio Lower Upper

113 100

111 81.8 79.4 119.0

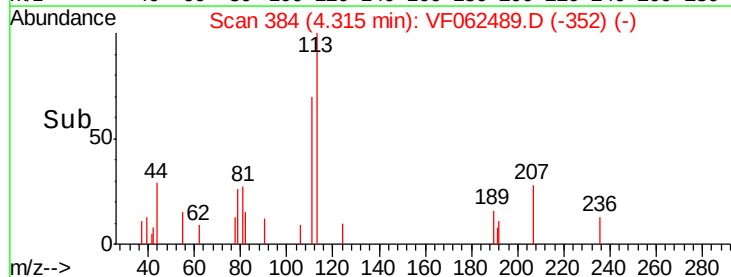
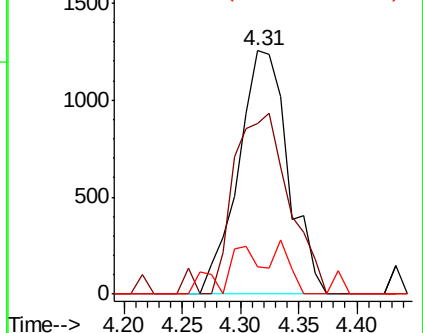
192 15.4 16.0 24.0#

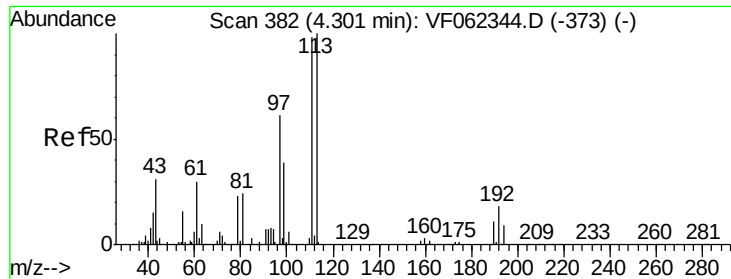


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

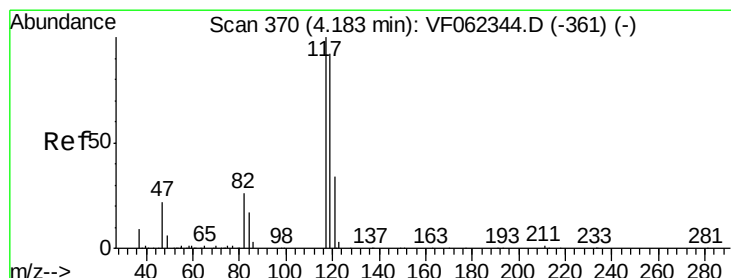
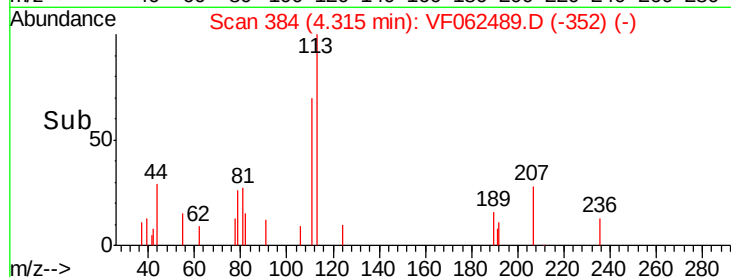
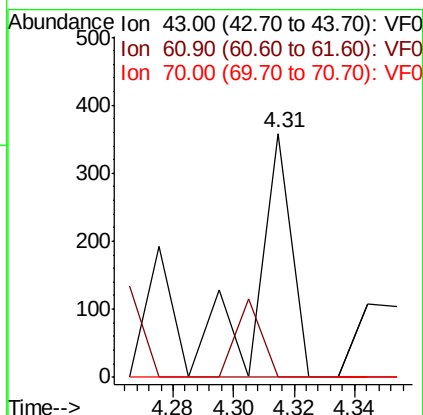
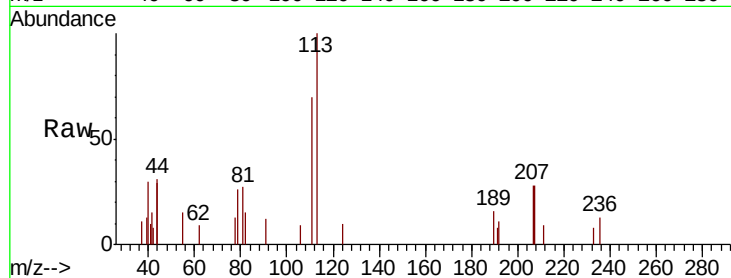




#37
Ethyl Acetate
Concen: 1.675 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

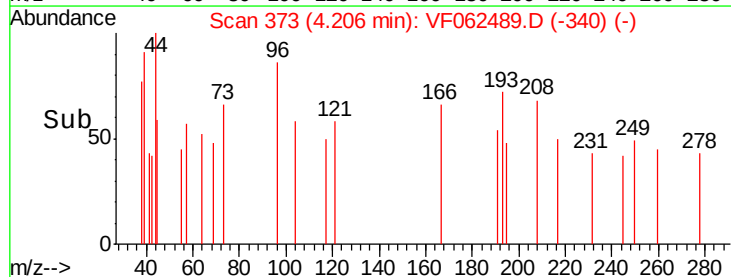
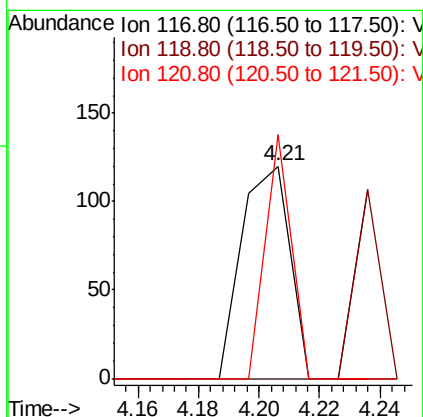
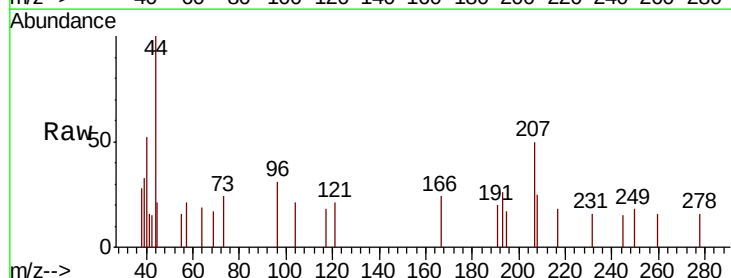
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

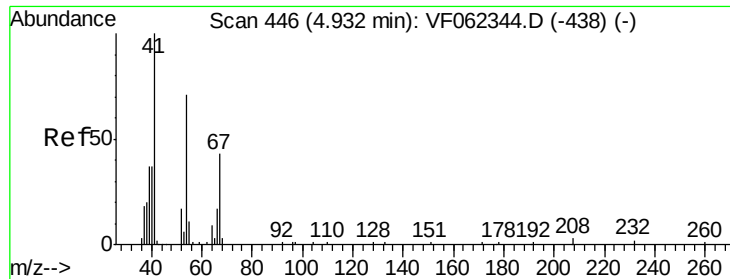
Tgt Ion: 43 Resp: 288
Ion Ratio Lower Upper
43 100
61 24.0 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.21 min Scan# 373
Delta R.T. 0.02 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion: 117 Resp: 133
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 115.0 27.4 41.0#





#41

Methacrylonitrile

Concen: 19.195 ug/l

RT: 4.98 min Scan# 451

Delta R.T. 0.04 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

Tgt Ion: 41 Resp: 503

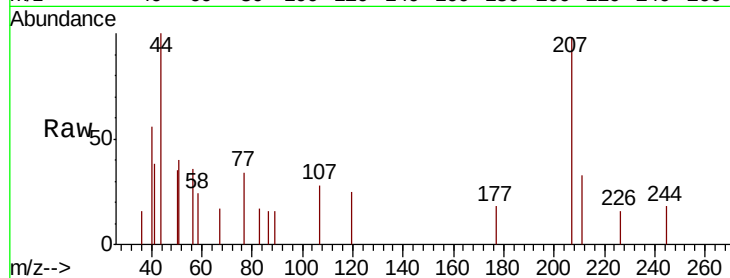
Ion Ratio Lower Upper

41 100

39 0.0 54.3 81.5#

67 13.3 37.8 56.8#

52 24.9 58.2 87.4#

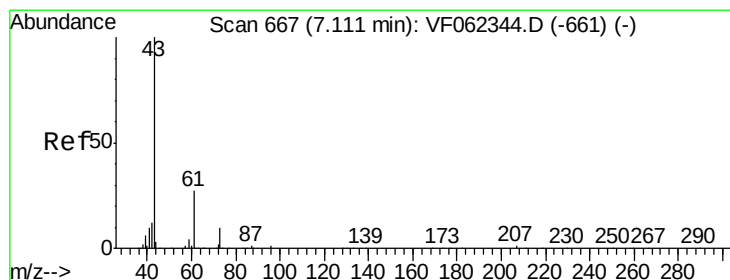
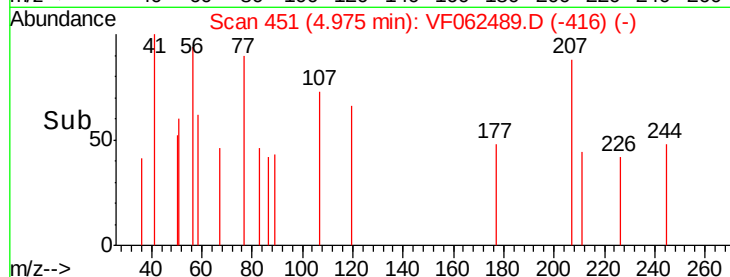
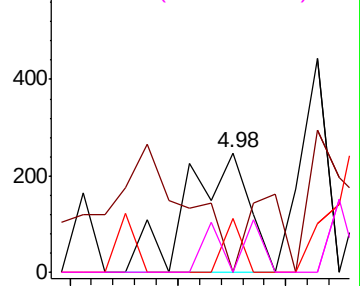


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 2.877 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

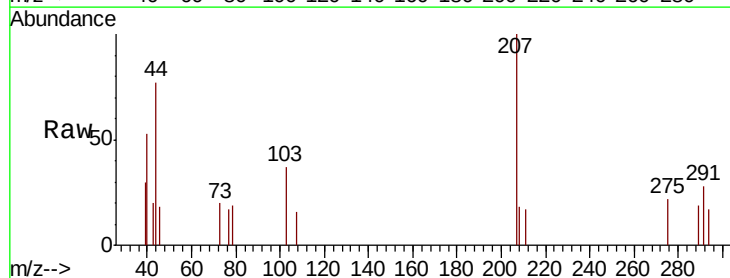
Tgt Ion: 43 Resp: 143

Ion Ratio Lower Upper

43 100

61 0.0 22.8 34.2#

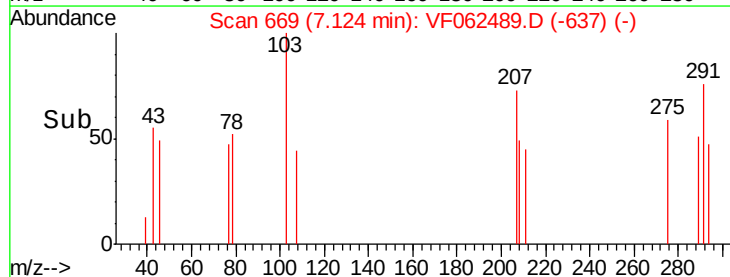
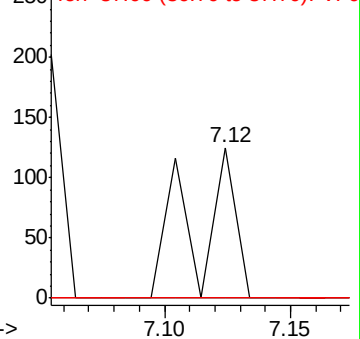
87 0.0 0.6 1.0#

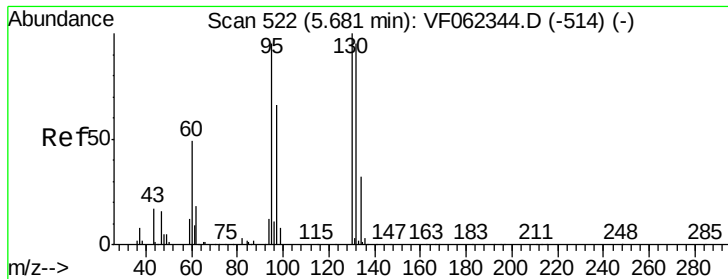


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#44

Trichloroethene

Concen: 1.561 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.08 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

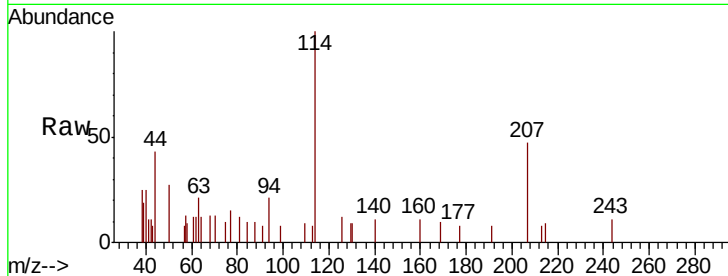
P021-SS006-0002-01

Tgt Ion:130 Resp: 138

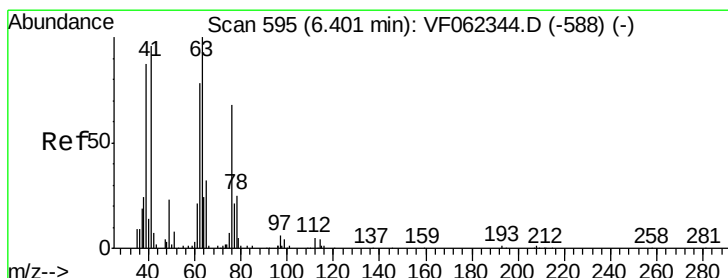
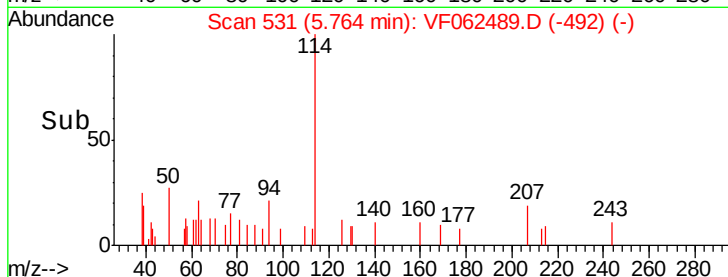
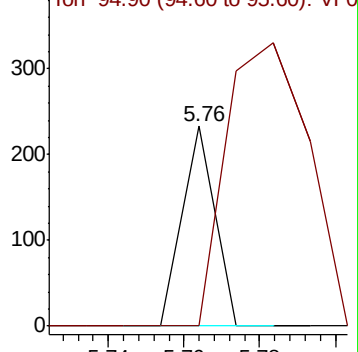
Ion Ratio Lower Upper

130 100

95 0.0 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): VF0



#45

1,2-Dichloropropane

Concen: 1.321 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.13 min

Lab File: VF062489.D

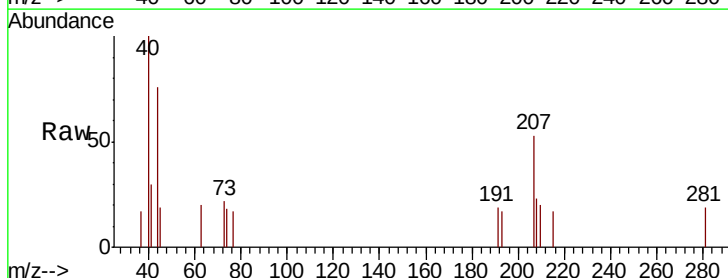
Acq: 12 May 2019 6:10

Tgt Ion: 63 Resp: 72

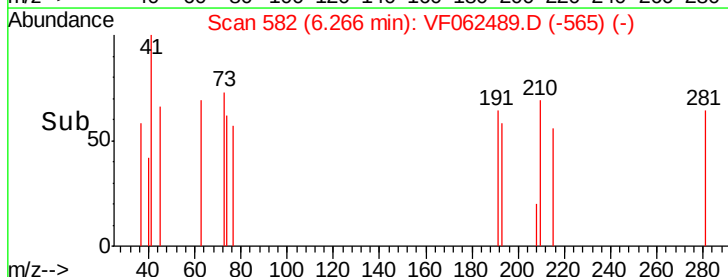
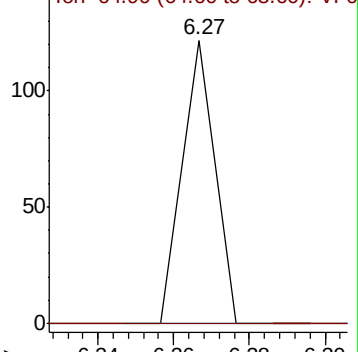
Ion Ratio Lower Upper

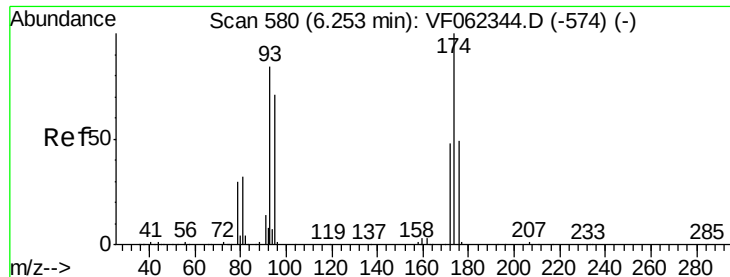
63 100

65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0





#46

Dibromomethane

Concen: 1.394 ug/l

RT: 6.01 min Scan# 556

Delta R.T. -0.24 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

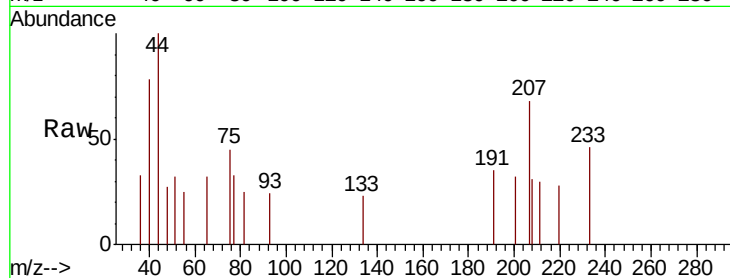
Tgt Ion: 93 Resp: 63

Ion Ratio Lower Upper

93 100

95 0.0 68.4 102.6#

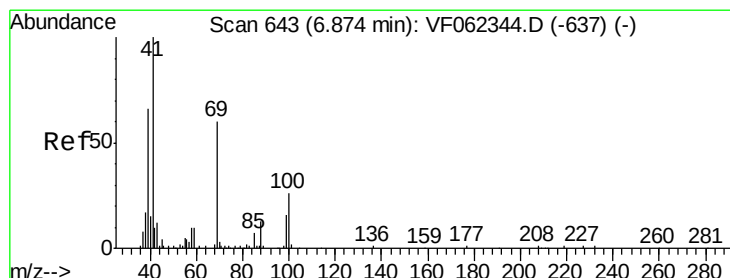
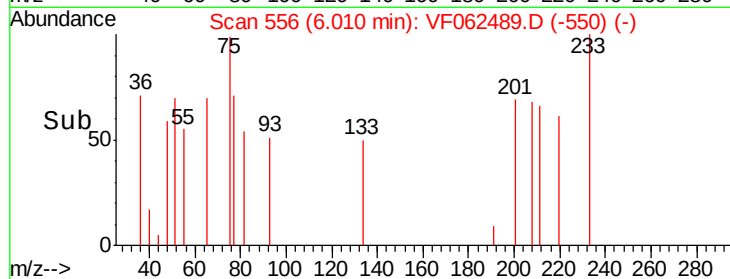
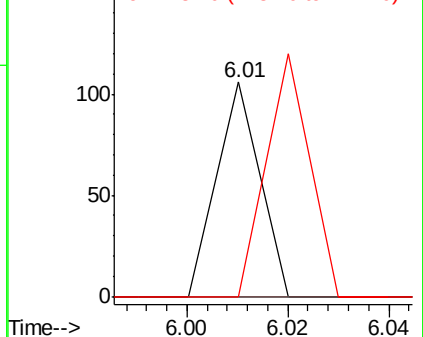
174 112.7 99.6 149.4



Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V



#48

Methyl methacrylate

Concen: 7.771 ug/l

RT: 6.92 min Scan# 648

Delta R.T. 0.04 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

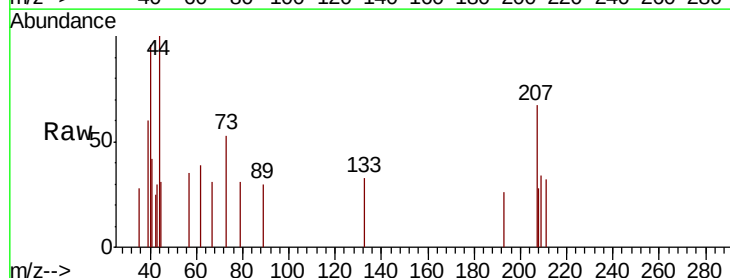
Tgt Ion: 41 Resp: 273

Ion Ratio Lower Upper

41 100

69 0.0 48.6 72.8#

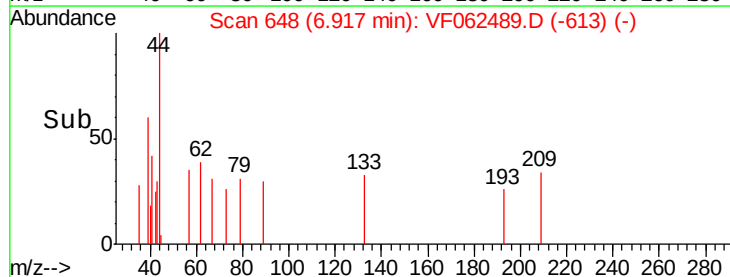
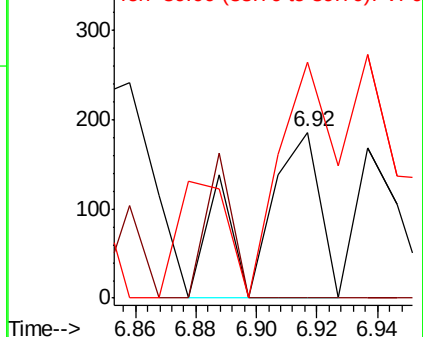
39 243.6 56.1 84.1#

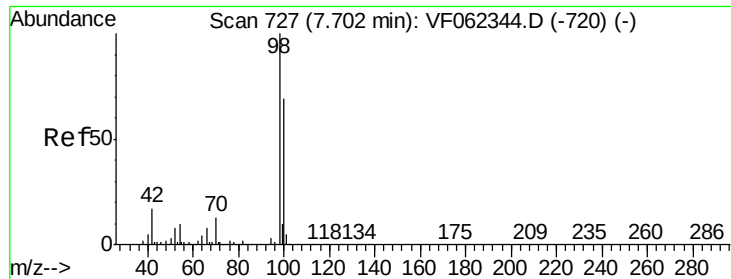


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 25.120 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

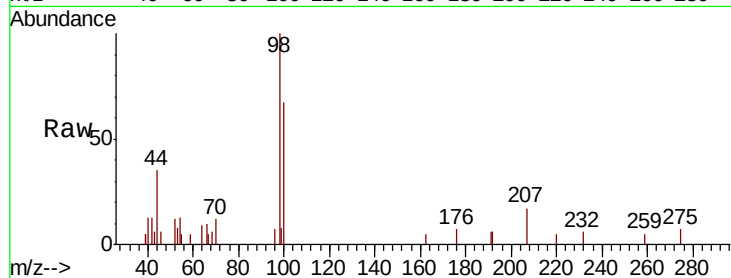
P021-SS006-0002-01

Tgt Ion: 98 Resp: 6163

Ion Ratio Lower Upper

98 100

100 62.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.73

2500

2000

1500

1000

500

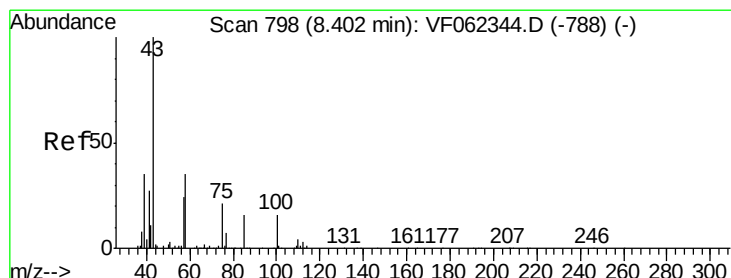
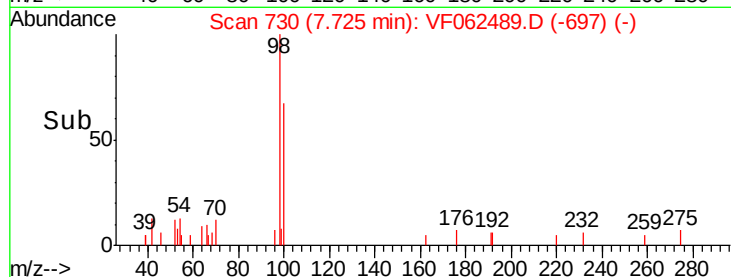
0

Time-->

7.60

7.70

7.80



#51

4-Methyl-2-Pentanone

Concen: 3.372 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF062489.D

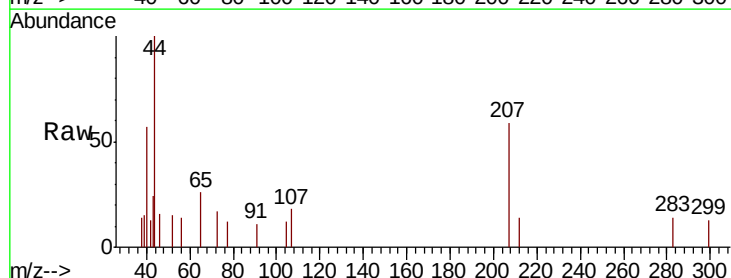
Acq: 12 May 2019 6:10

Tgt Ion: 43 Resp: 127

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.44

250

200

150

100

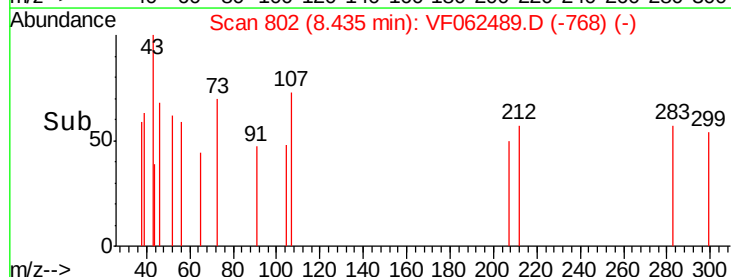
50

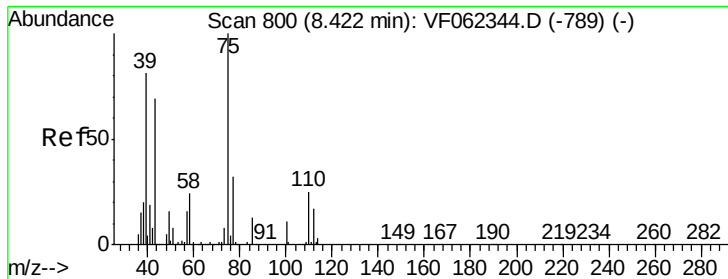
0

Time-->

8.42

8.44





#53

t-1,3-Dichloropropene

Concen: 1.065 ug/l

RT: 8.48 min Scan# 807

Delta R.T. 0.06 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

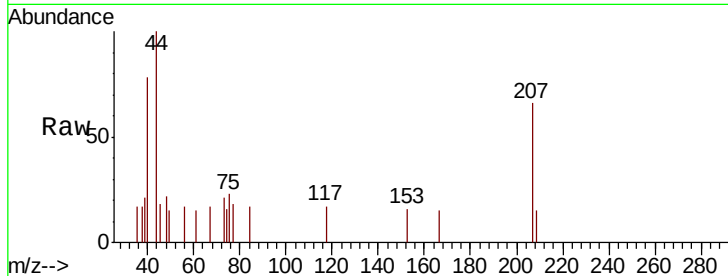
P021-SS006-0002-01

Tgt Ion: 75 Resp: 91

Ion Ratio Lower Upper

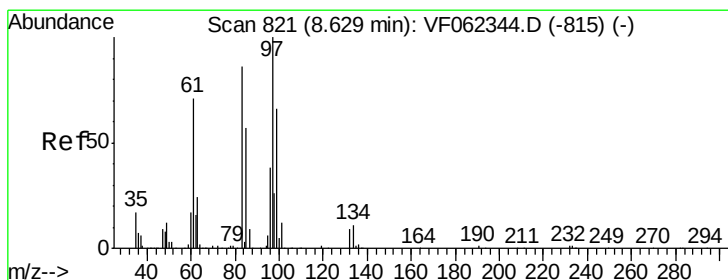
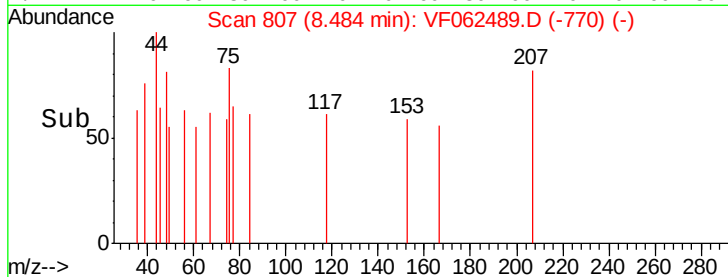
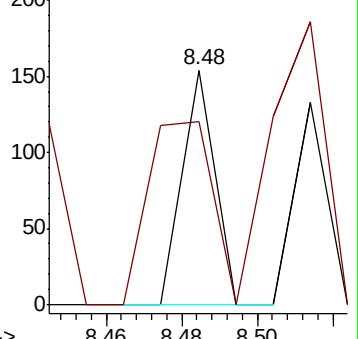
75 100

77 77.9 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#55

1,1,2-Trichloroethane

Concen: 1.379 ug/l

RT: 8.84 min Scan# 843

Delta R.T. 0.21 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Tgt Ion: 97 Resp: 65

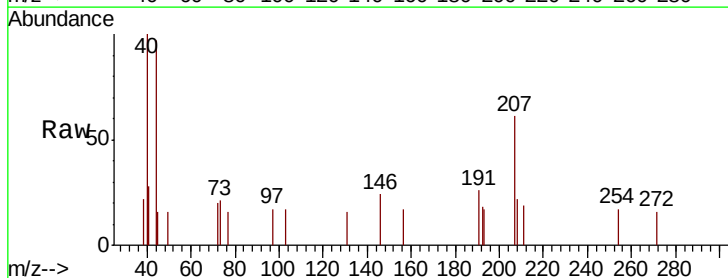
Ion Ratio Lower Upper

97 100

83 0.0 68.5 102.7#

85 0.0 45.4 68.2#

99 0.0 52.7 79.1#

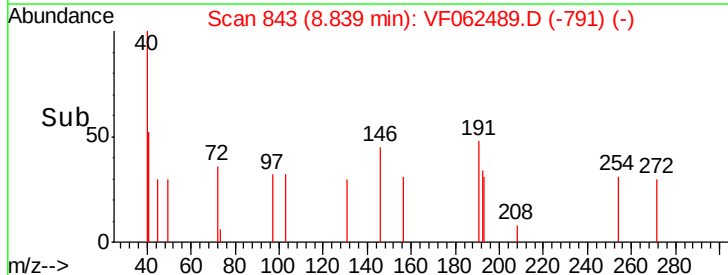
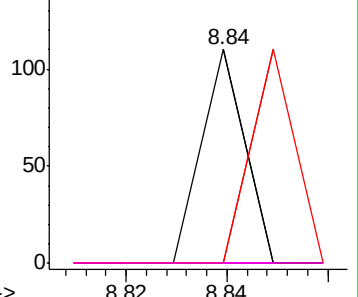


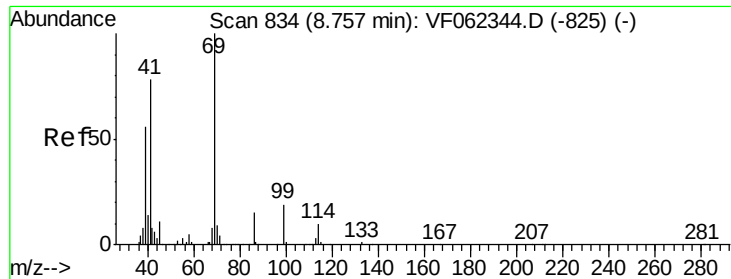
Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0





#56

Ethyl methacrylate

Concen: 1.508 ug/l

RT: 8.96 min Scan# 855

Delta R.T. 0.20 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

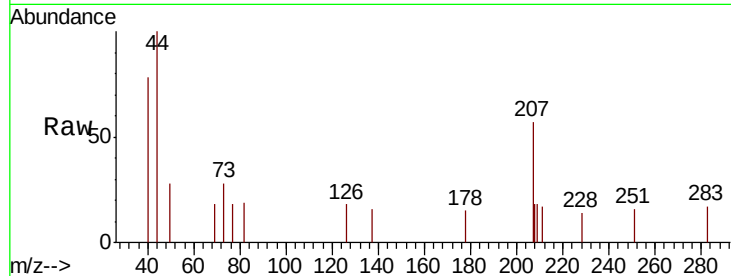
Tgt Ion: 69 Resp: 75

Ion Ratio Lower Upper

69 100

41 313.3 66.3 99.5#

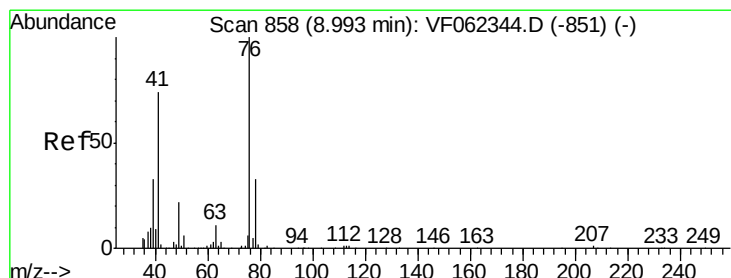
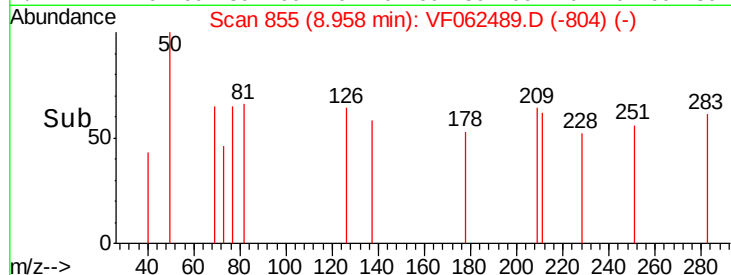
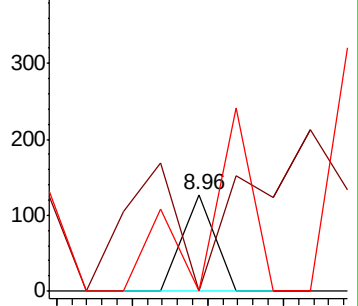
39 276.0 50.1 75.1#



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: 1.025 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.02 min

Lab File: VF062489.D

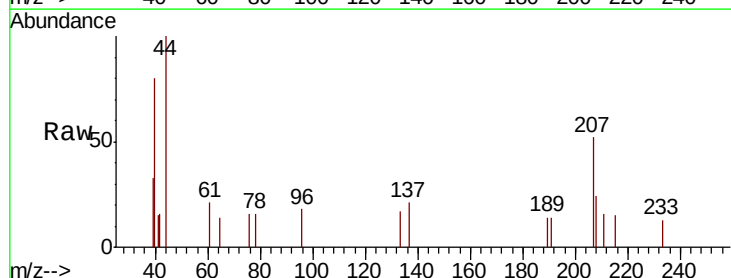
Acq: 12 May 2019 6:10

Tgt Ion: 76 Resp: 73

Ion Ratio Lower Upper

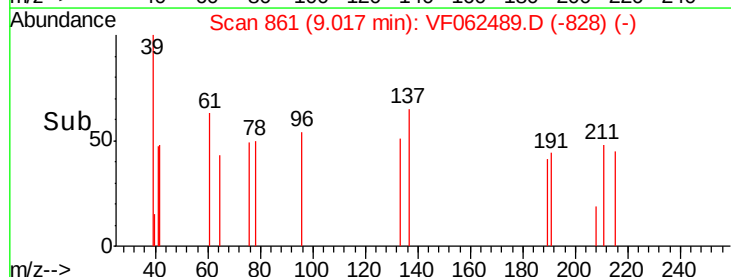
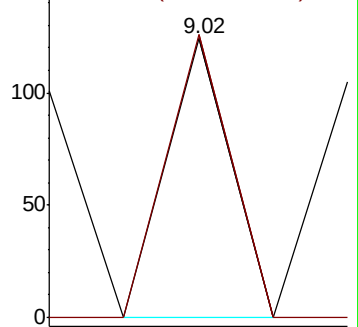
76 100

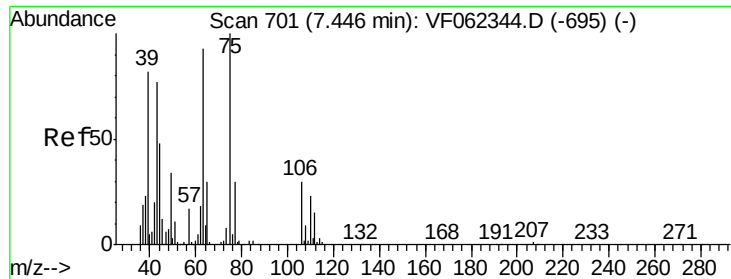
78 102.7 26.4 39.6#



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

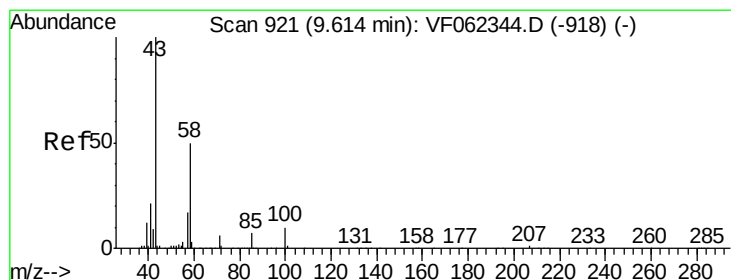
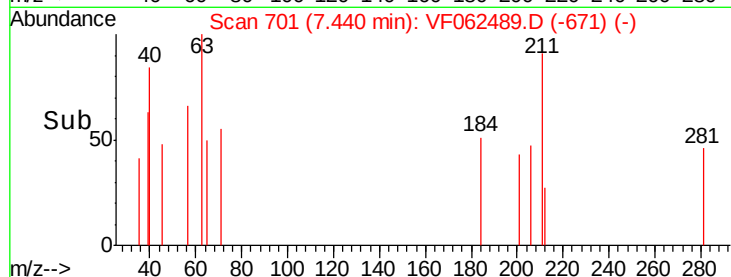
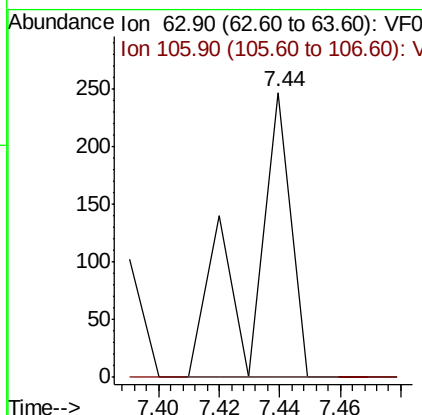
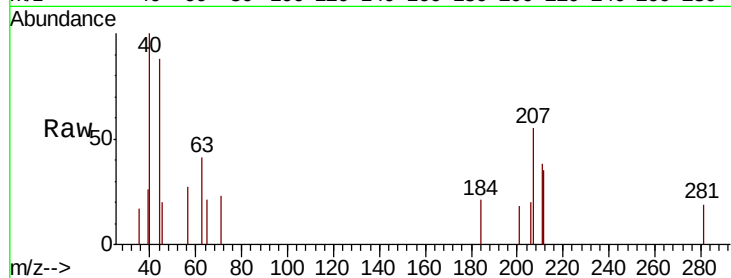




#58
 2-Chloroethyl Vinyl ether
 Concen: 15.310 ug/l
 RT: 7.44 min Scan# 701
 Delta R.T. -0.01 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

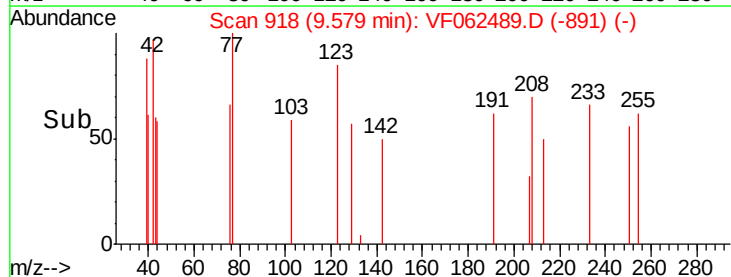
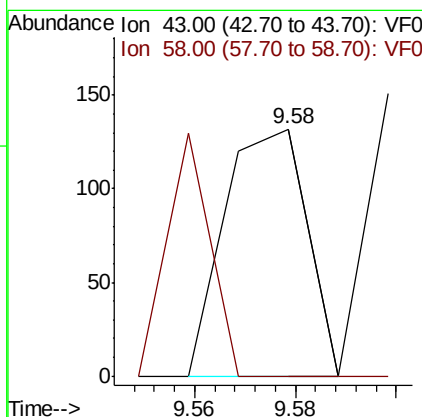
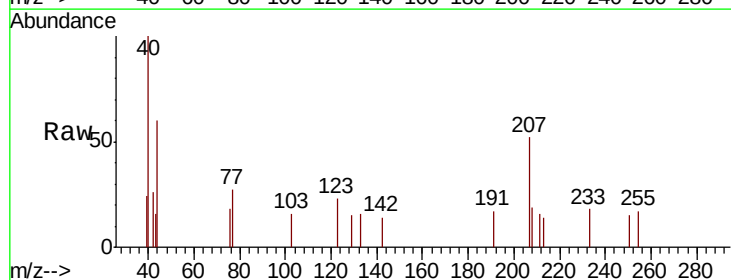
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

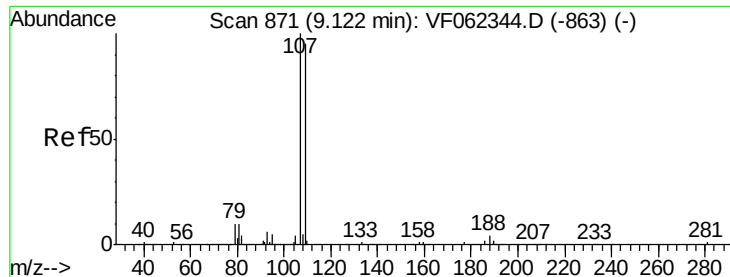
Tgt Ion: 63 Resp: 229
 Ion Ratio Lower Upper
 63 100
 106 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 5.720 ug/l
 RT: 9.58 min Scan# 918
 Delta R.T. -0.04 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

Tgt Ion: 43 Resp: 149
 Ion Ratio Lower Upper
 43 100
 58 51.7 24.3 73.0

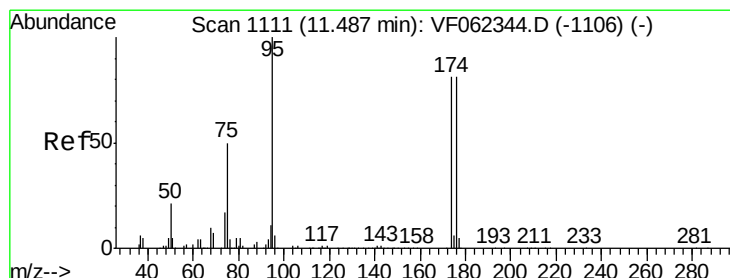
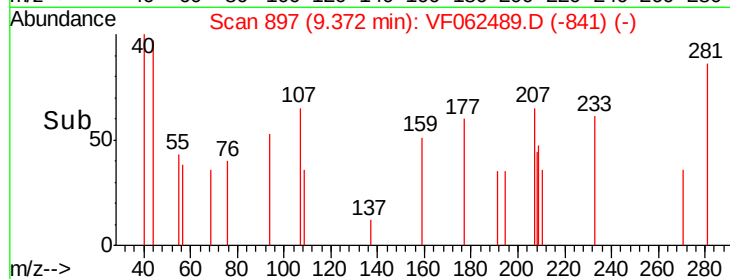
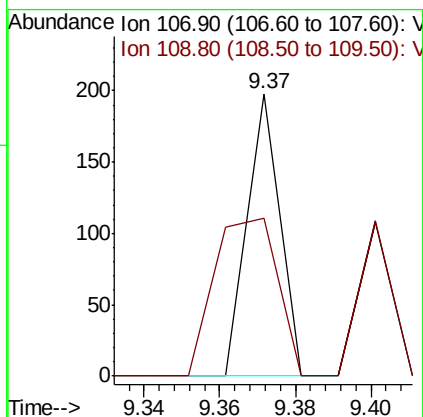
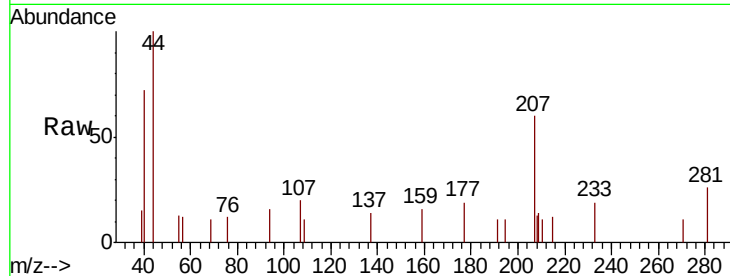




#61
 1,2-Dibromoethane
 Concen: 2.112 ug/l
 RT: 9.37 min Scan# 897
 Delta R.T. 0.25 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

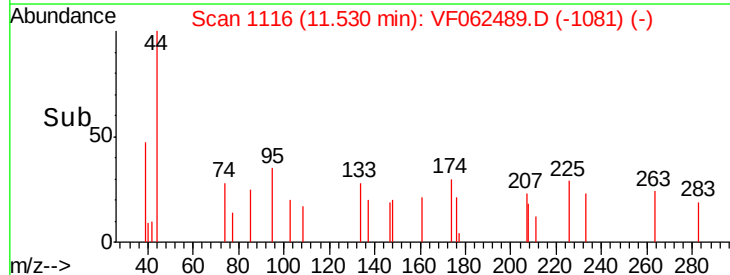
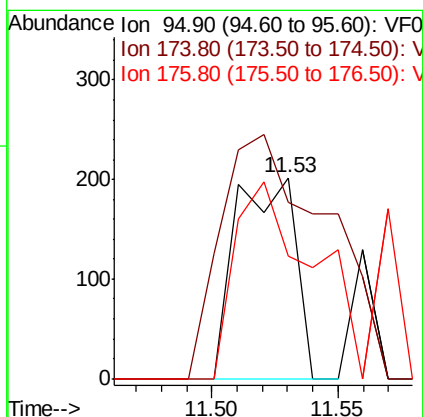
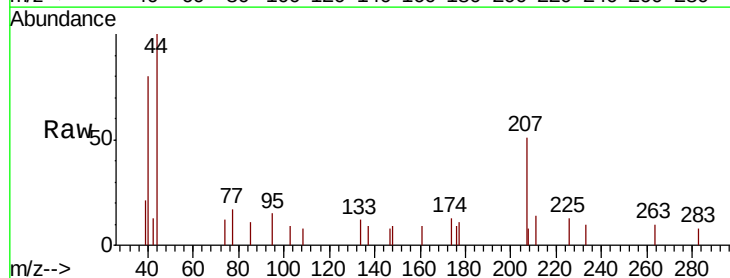
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

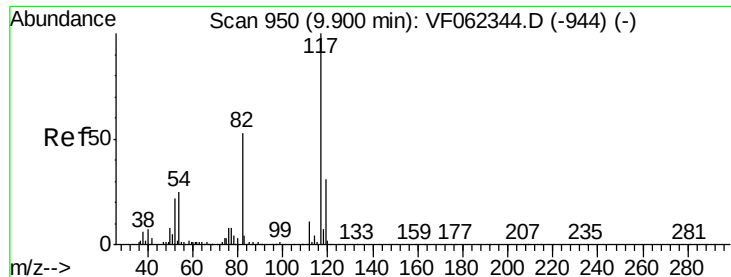
Tgt Ion: 107 Resp: 117
 Ion Ratio Lower Upper
 107 100
 109 108.5 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 3.017 ug/l
 RT: 11.53 min Scan# 1116
 Delta R.T. 0.04 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

Tgt Ion: 95 Resp: 334
 Ion Ratio Lower Upper
 95 100
 174 214.4 0.0 191.8#
 176 127.8 0.0 193.2

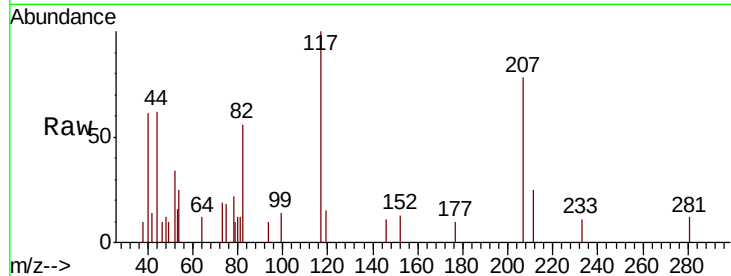




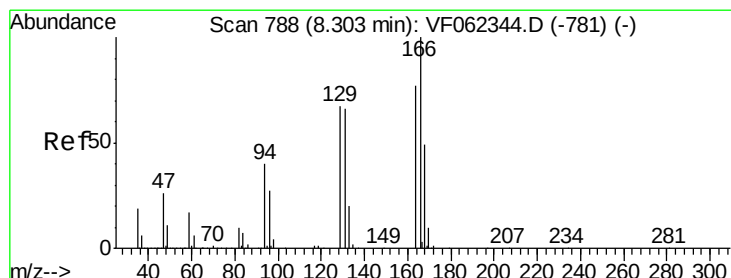
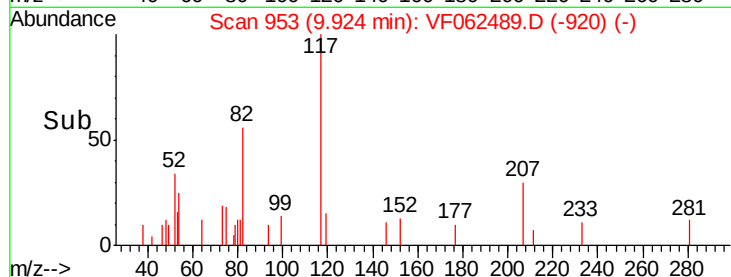
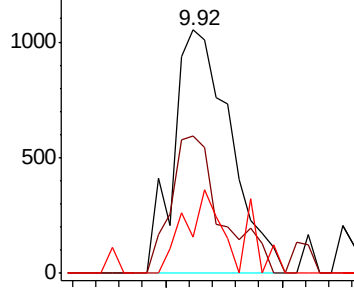
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

Tgt Ion:117 Resp: 3560
Ion Ratio Lower Upper
117 100
82 56.5 42.2 63.2
119 14.6 25.0 37.4#

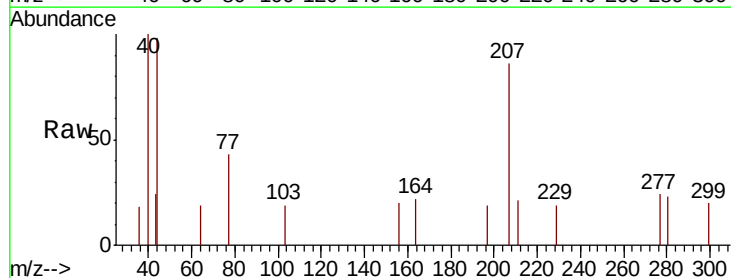


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

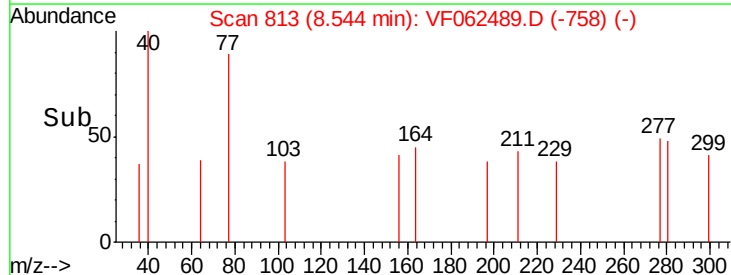
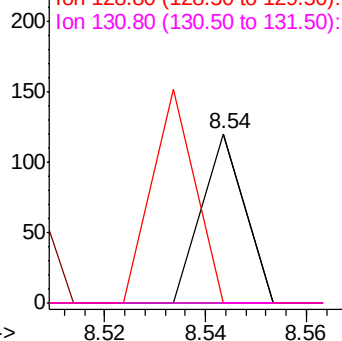


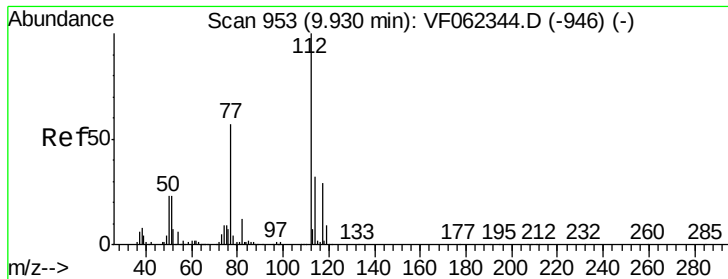
#64
Tetrachloroethene
Concen: 2.457 ug/l
RT: 8.54 min Scan# 813
Delta R.T. 0.24 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion:164 Resp: 71
Ion Ratio Lower Upper
164 100
166 0.0 104.2 156.4#
129 0.0 69.6 104.4#
131 0.0 68.8 103.2#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

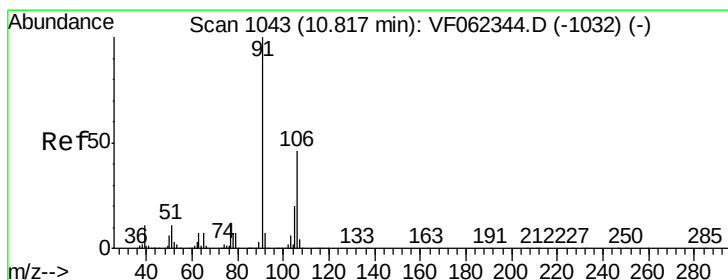
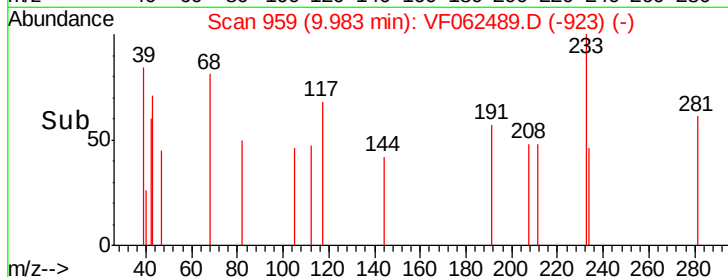
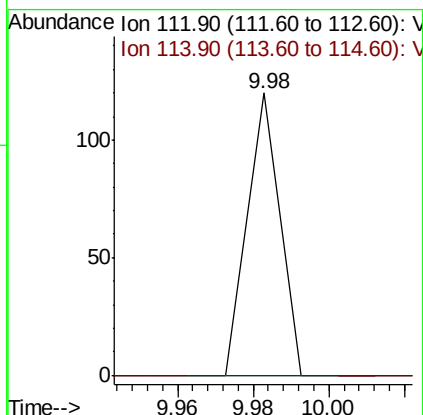
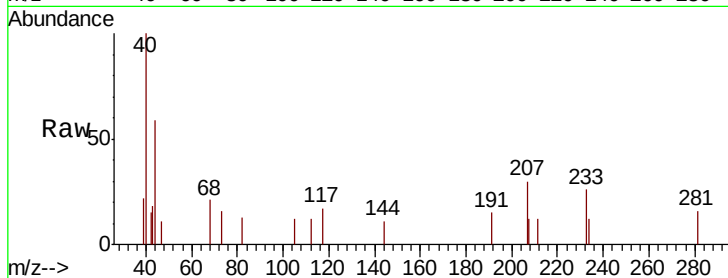




#65
Chlorobenzene
Concen: 1.205 ug/l
RT: 9.98 min Scan# 959
Delta R.T. 0.05 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

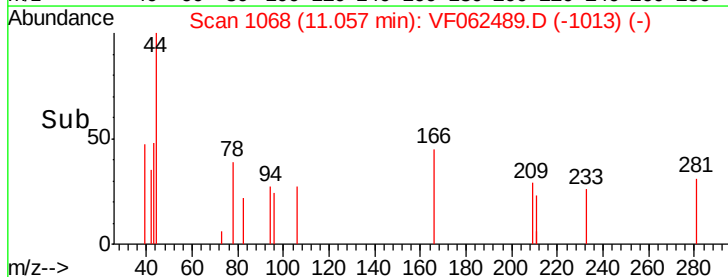
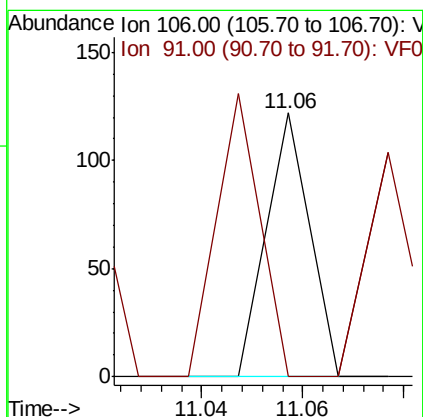
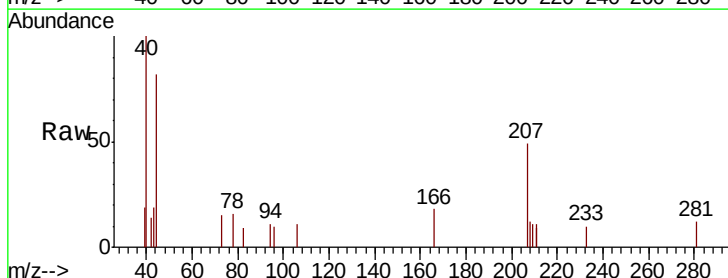
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

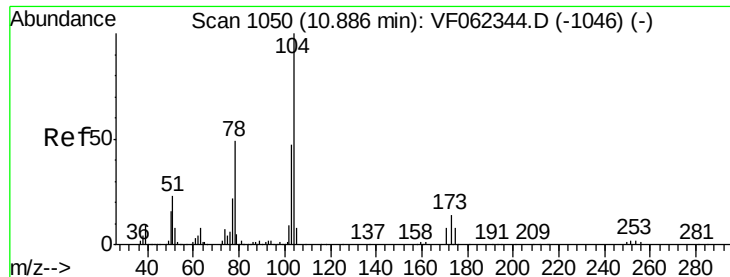
Tgt Ion:112 Resp: 71
Ion Ratio Lower Upper
112 100
114 0.0 25.4 38.0#



#69
o-Xylene
Concen: 1.751 ug/l
RT: 11.06 min Scan# 1068
Delta R.T. 0.24 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion:106 Resp: 72
Ion Ratio Lower Upper
106 100
91 106.9 111.3 333.8#





#70

Styrene

Concen: 1.266 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

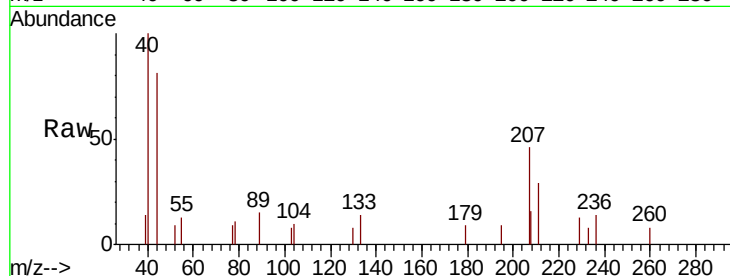
Tgt Ion:104 Resp: 78

Ion Ratio Lower Upper

104 100

78 79.5 39.5 59.3#

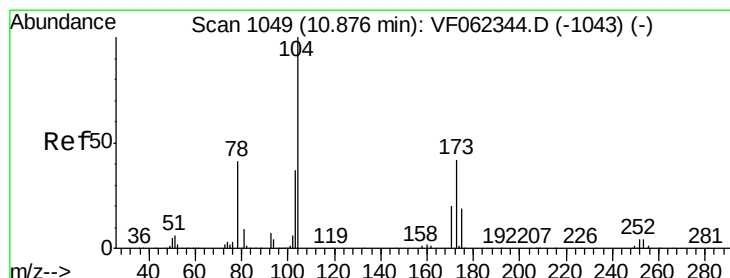
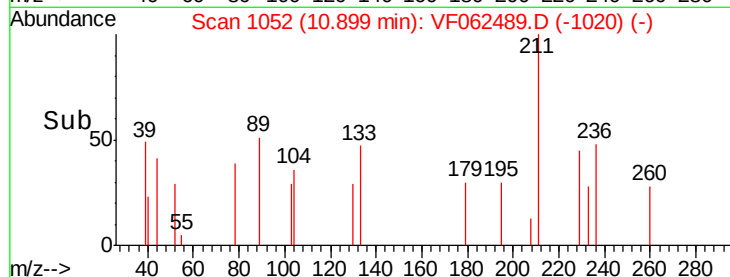
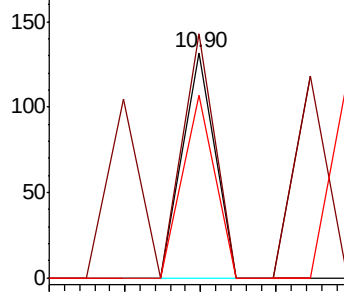
103 80.8 38.4 57.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 4.054 ug/l

RT: 11.13 min Scan# 1075

Delta R.T. 0.25 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

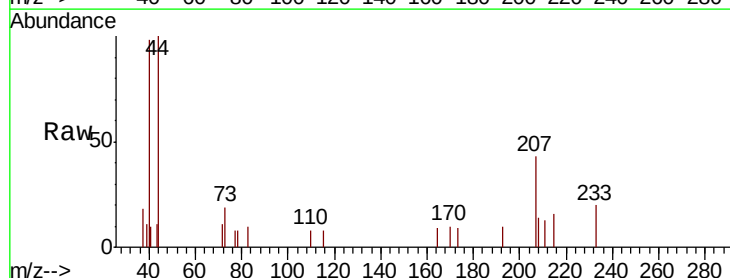
Tgt Ion:173 Resp: 66

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.2#

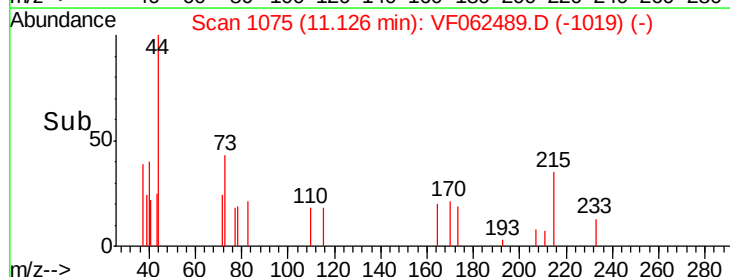
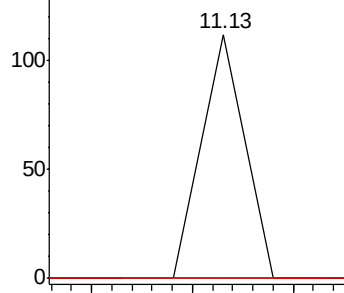
254 0.0 0.1 0.1#

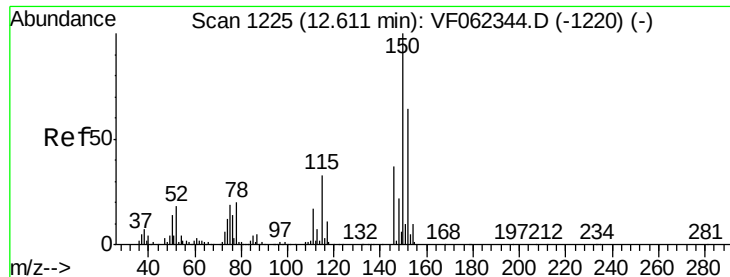


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.02 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

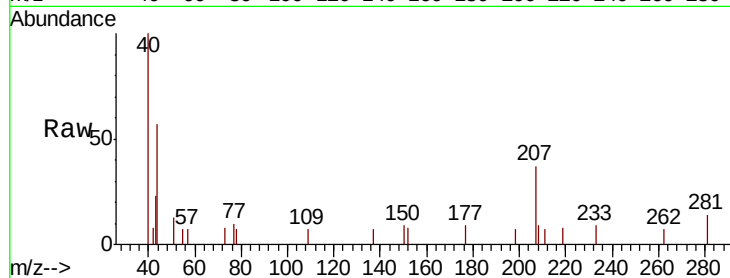
Tgt Ion:152 Resp: 76

Ion Ratio Lower Upper

152 100

115 78.9 26.4 79.2

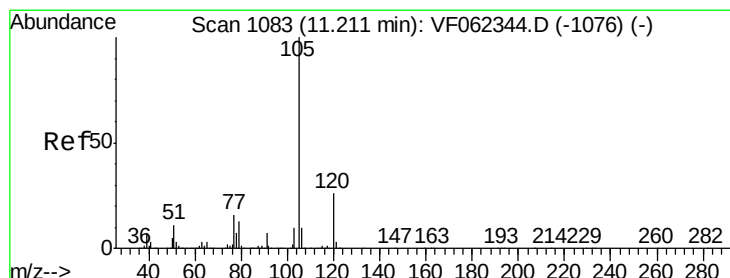
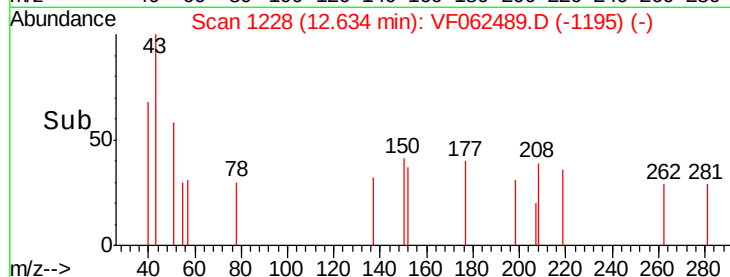
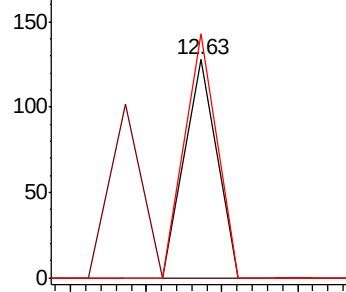
150 111.8 0.0 335.0



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



#73

Isopropylbenzene

Concen: 14.871 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062489.D

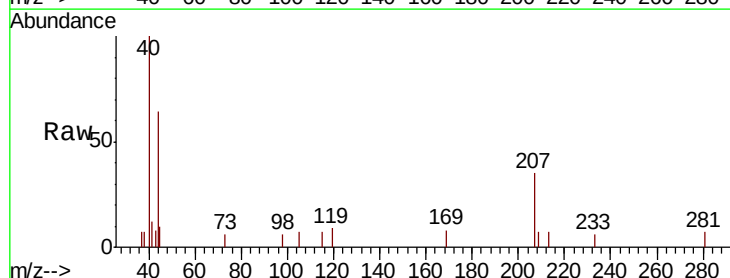
Acq: 12 May 2019 6:10

Tgt Ion:105 Resp: 67

Ion Ratio Lower Upper

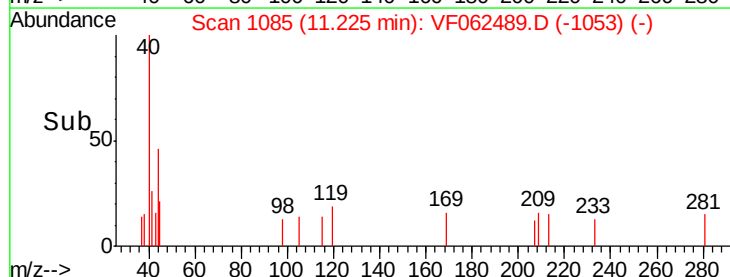
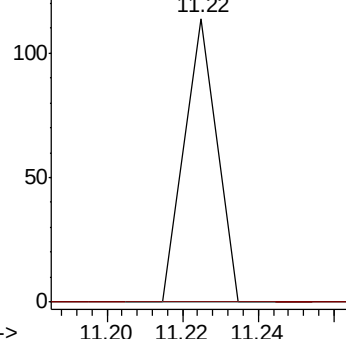
105 100

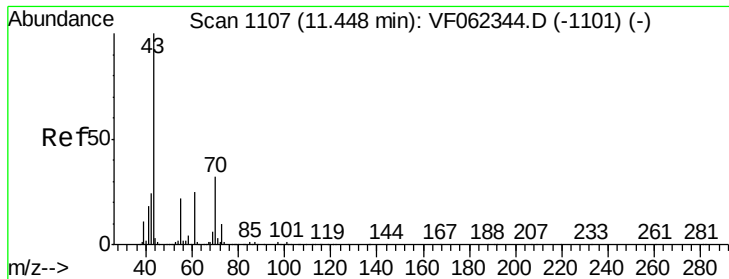
120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 370.108 ug/l

RT: 11.23 min Scan# 1086

Delta R.T. -0.21 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

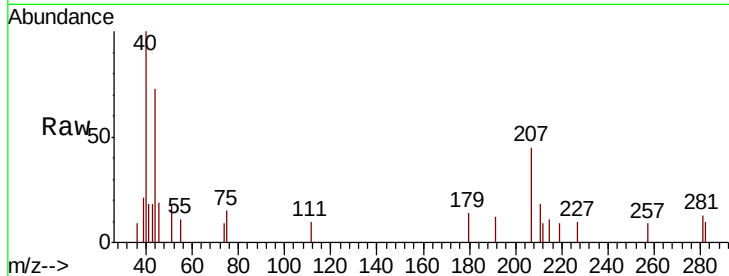
Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

Tgt Ion:	43	Resp:	358
Ion	Ratio	Lower	Upper
43	100		
70	29.6	26.5	39.7
55	22.3	17.8	26.6
61	20.4	20.2	30.2



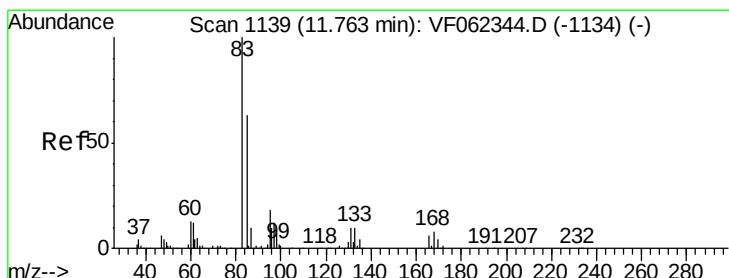
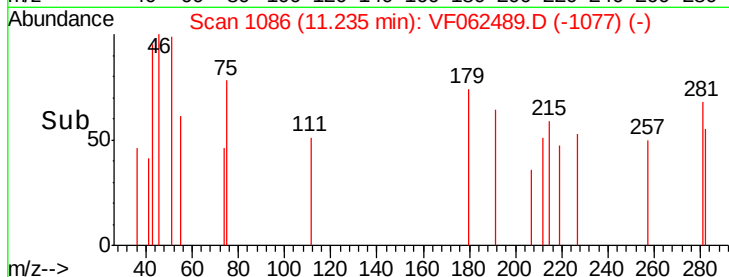
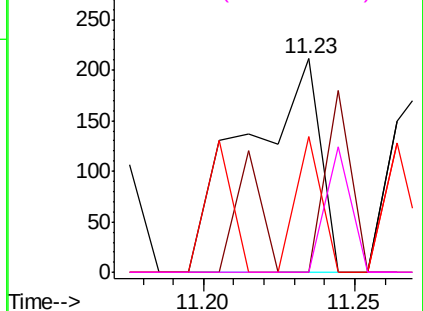
Abundance

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: 120.489 ug/l

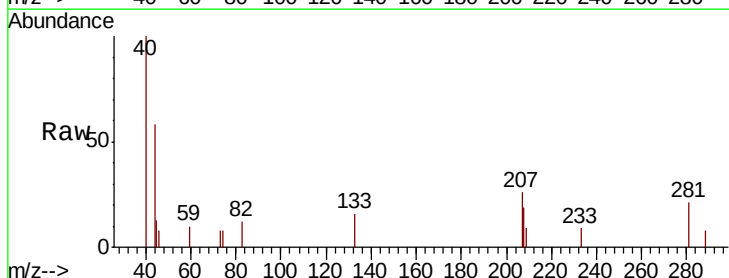
RT: 11.67 min Scan# 1130

Delta R.T. -0.10 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Tgt Ion:	83	Resp:	85
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.8	17.4#
85	0.0	35.3	105.7#

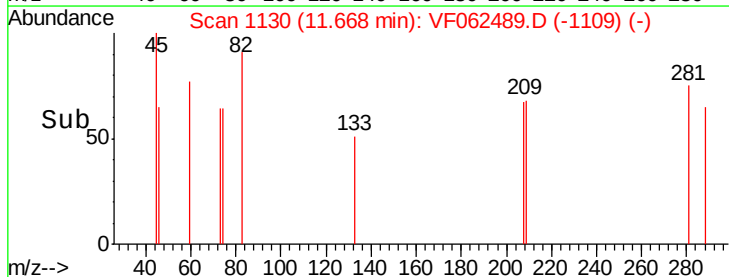
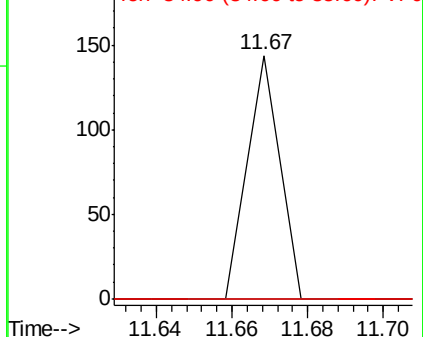


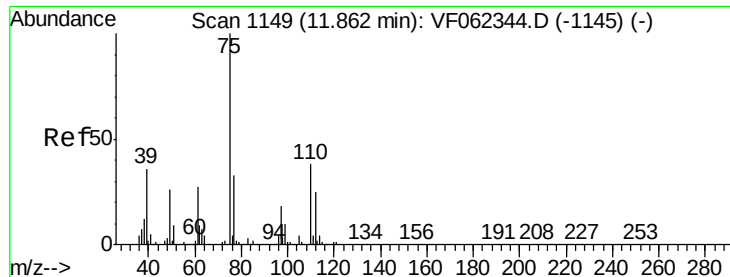
Abundance

Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0





#76

1,2,3-Trichloropropane

Concen: 118.910 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.10 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

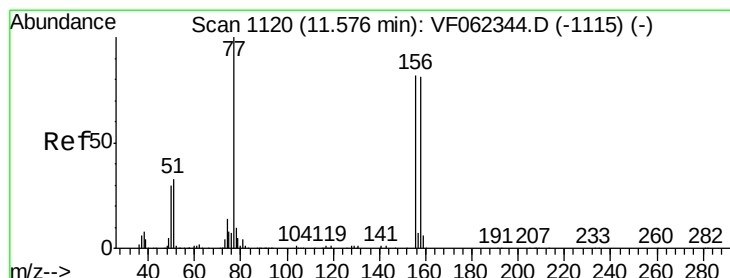
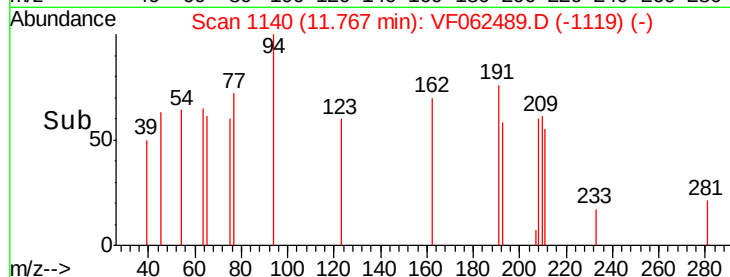
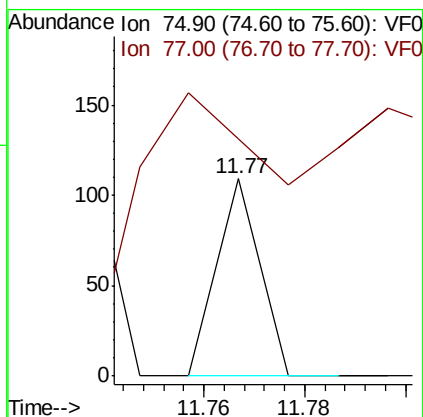
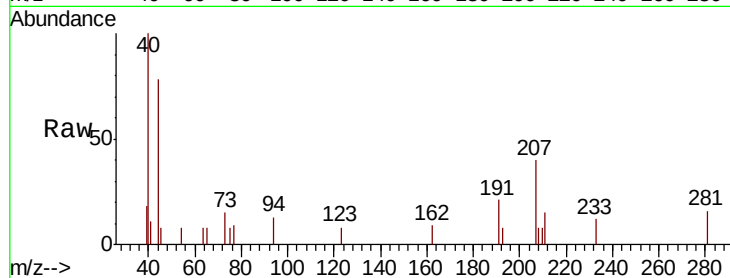
P021-SS006-0002-01

Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 471.9 0.0 0.0#



#77

Bromobenzene

Concen: 58.352 ug/l

RT: 11.38 min Scan# 1101

Delta R.T. -0.19 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

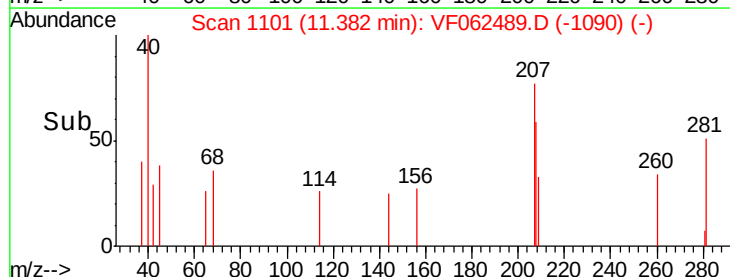
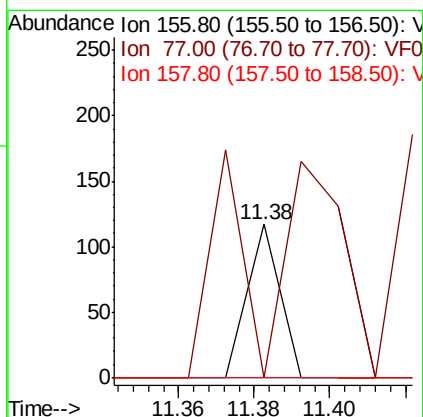
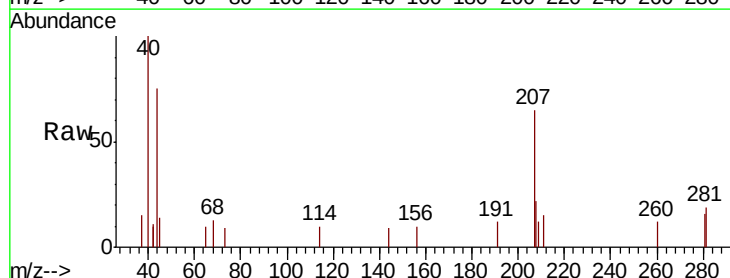
Tgt Ion: 156 Resp: 69

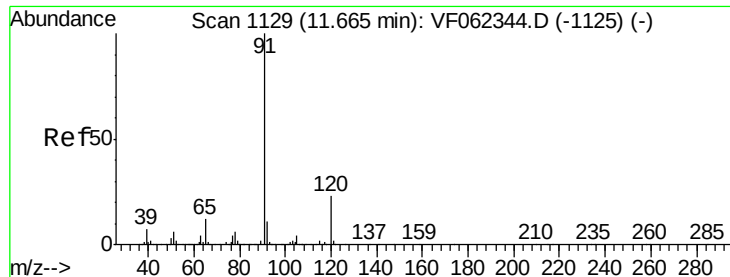
Ion Ratio Lower Upper

156 100

77 253.6 64.8 194.3#

158 0.0 49.1 147.3#





#78

n-propylbenzene

Concen: 13.759 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.21 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

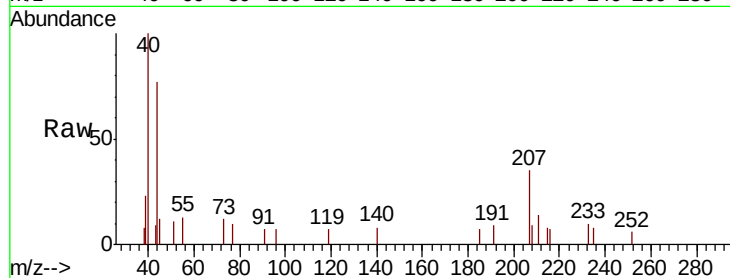
P021-SS006-0002-01

Tgt Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

120 0.0 11.9 35.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.88

100

80

60

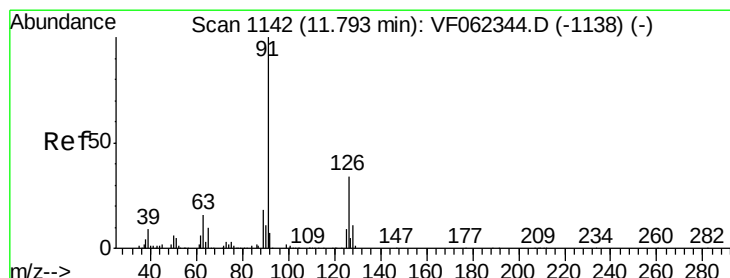
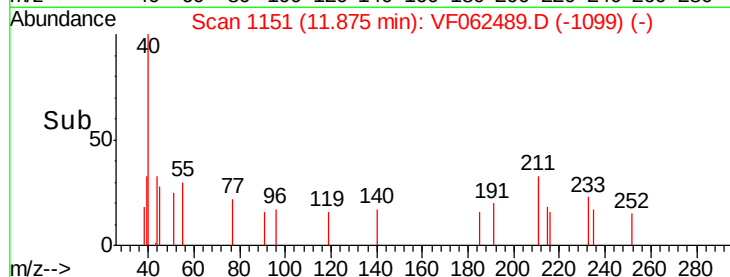
40

20

0

11.86 11.88

Time-->



#79

2-Chlorotoluene

Concen: 22.127 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.08 min

Lab File: VF062489.D

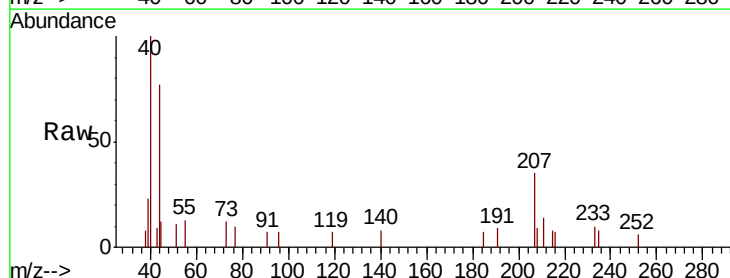
Acq: 12 May 2019 6:10

Tgt Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

11.88

100

80

60

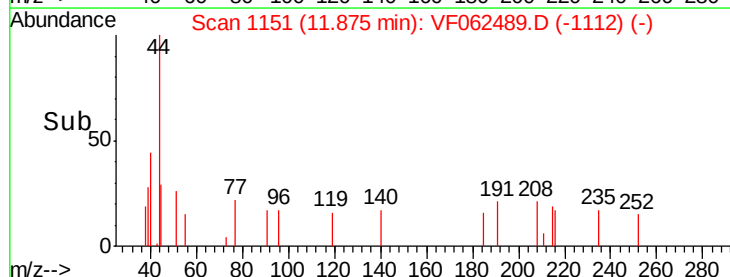
40

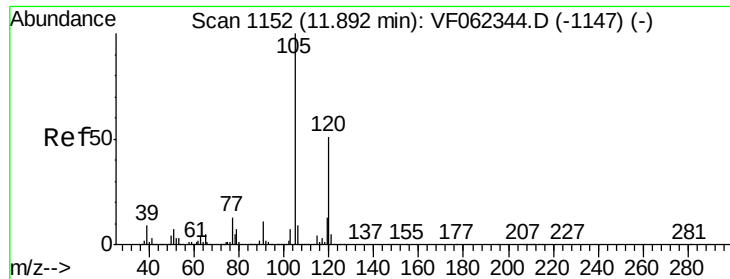
20

0

11.86 11.88

Time-->

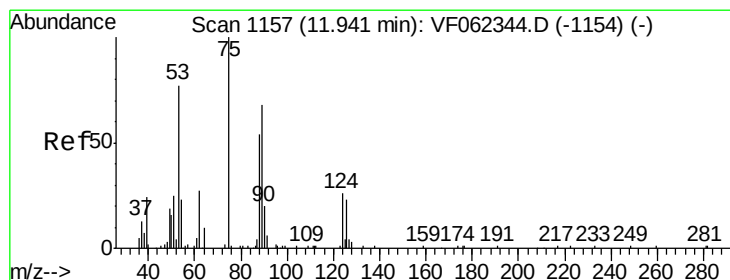
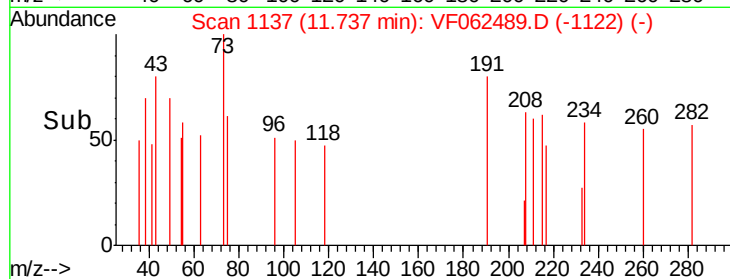
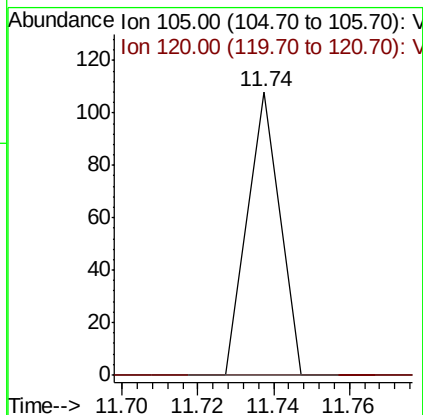
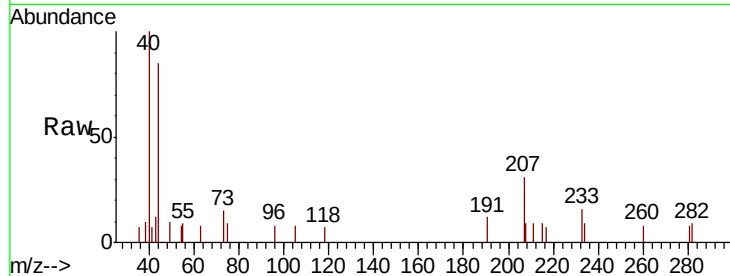




#80
 1,3,5-Trimethylbenzene
 Concen: 16.206 ug/l
 RT: 11.74 min Scan# 1137
 Delta R.T. -0.15 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

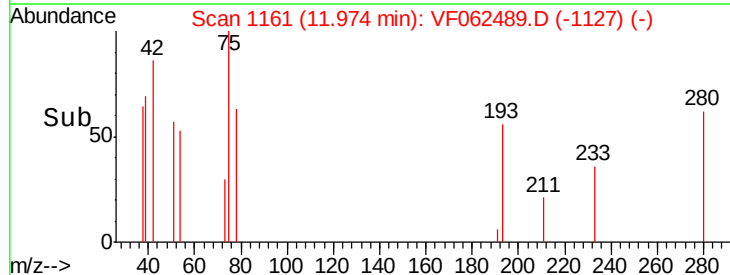
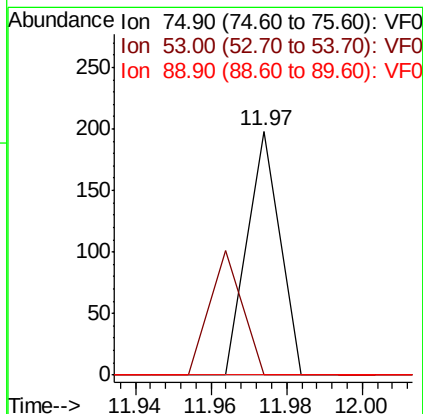
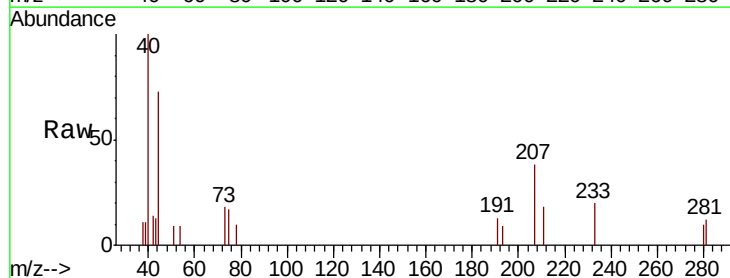
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0002-01

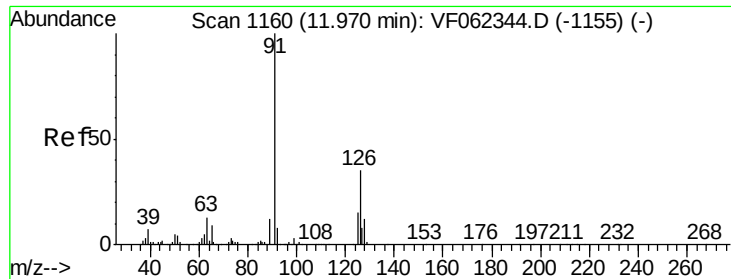
Tgt Ion: 105 Resp: 64
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.6 74.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 578.318 ug/l
 RT: 11.97 min Scan# 1161
 Delta R.T. 0.03 min
 Lab File: VF062489.D
 Acq: 12 May 2019 6:10

Tgt Ion: 75 Resp: 117
 Ion Ratio Lower Upper
 75 100
 53 51.3 71.9 107.9#
 89 0.0 0.0 0.0

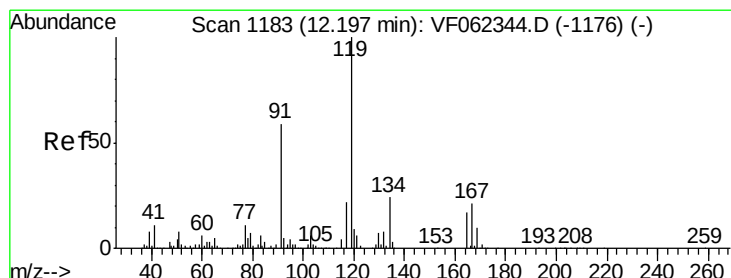
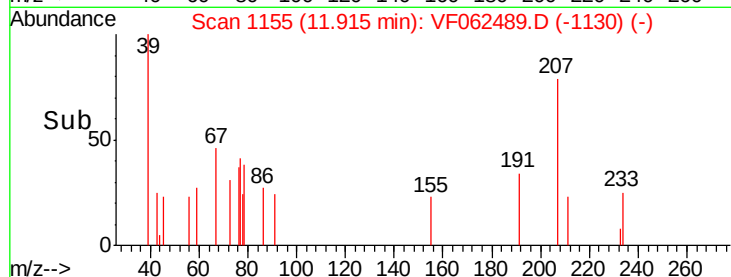
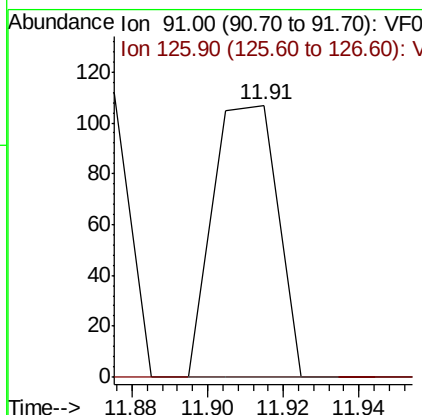
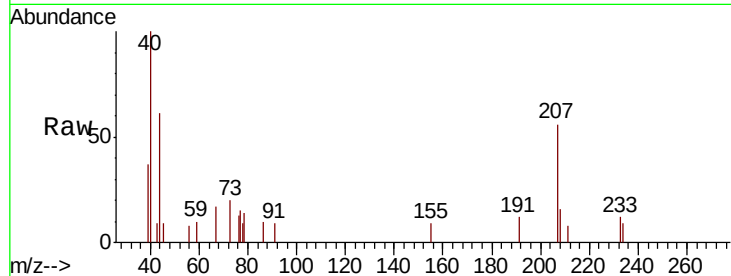




#82
4-Chlorotoluene
Concen: 42.430 ug/l
RT: 11.91 min Scan# 1155
Delta R.T. -0.06 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

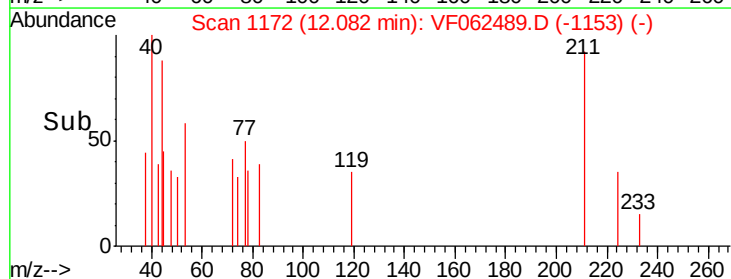
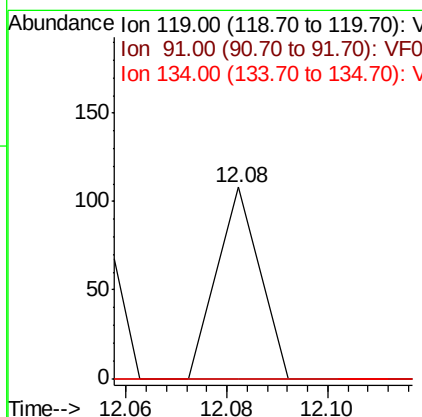
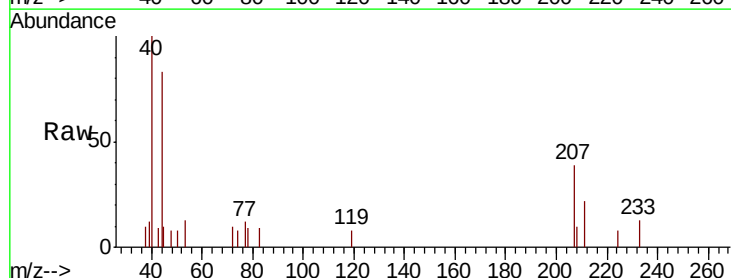
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

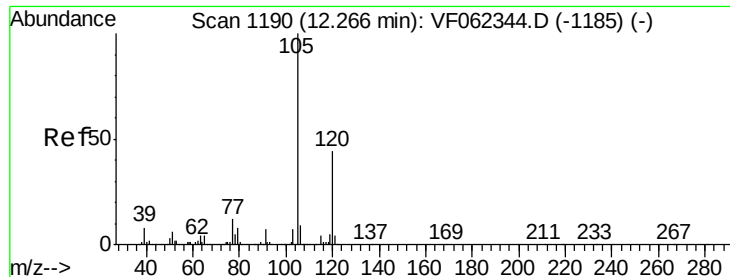
Tgt Ion: 91 Resp: 125
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#



#83
tert-Butylbenzene
Concen: 15.421 ug/l
RT: 12.08 min Scan# 1172
Delta R.T. -0.11 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion: 119 Resp: 64
Ion Ratio Lower Upper
119 100
91 0.0 30.4 91.3#
134 0.0 11.9 35.7#





#84

1,2,4-Trimethylbenzene

Concen: 18.113 ug/l

RT: 12.13 min Scan# 1177

Delta R.T. -0.13 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

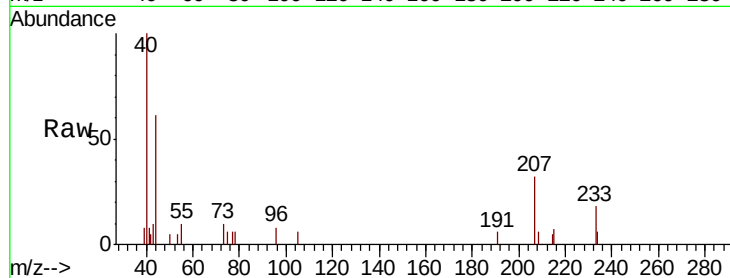
P021-SS006-0002-01

Tgt Ion:105 Resp: 70

Ion Ratio Lower Upper

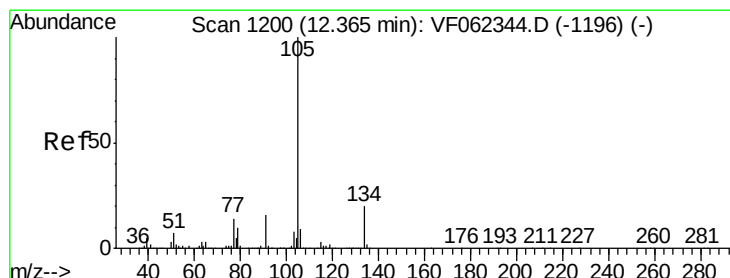
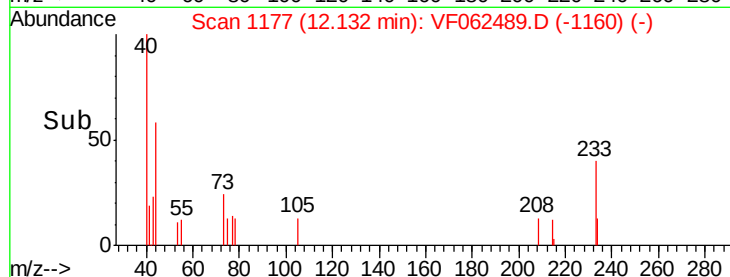
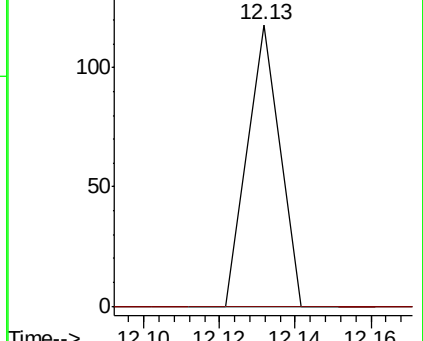
105 100

120 0.0 22.6 67.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 12.471 ug/l

RT: 12.50 min Scan# 1214

Delta R.T. 0.13 min

Lab File: VF062489.D

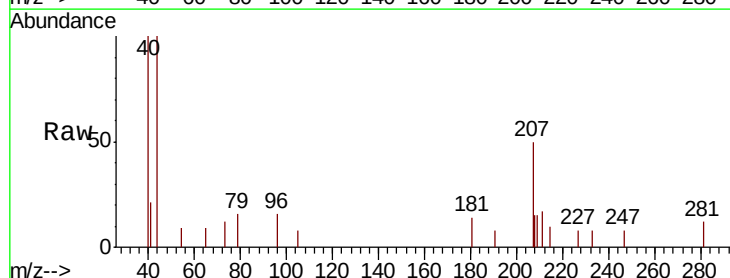
Acq: 12 May 2019 6:10

Tgt Ion:105 Resp: 63

Ion Ratio Lower Upper

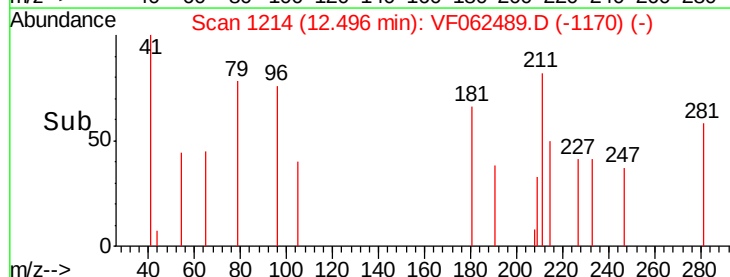
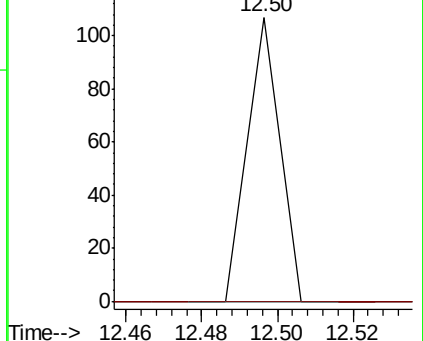
105 100

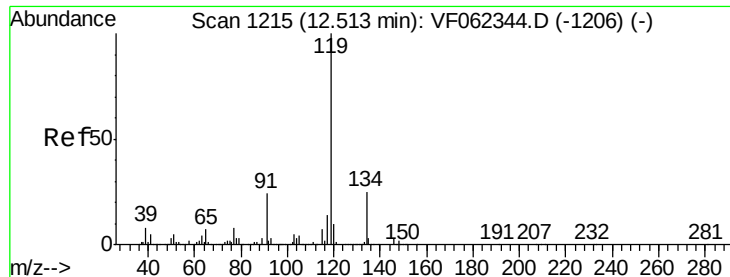
134 0.0 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

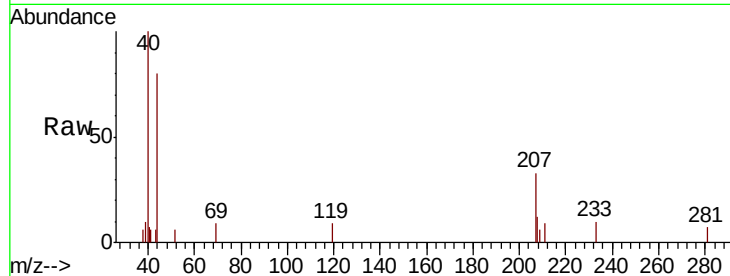




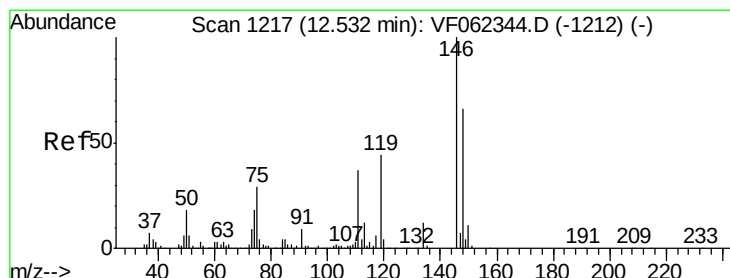
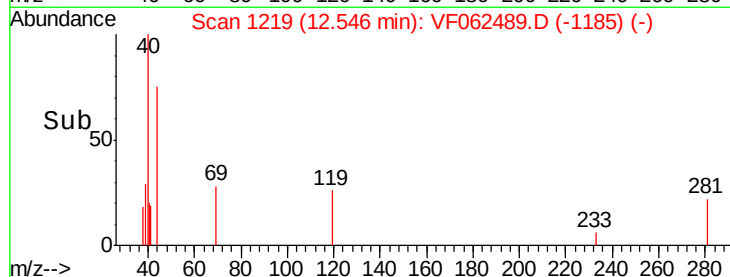
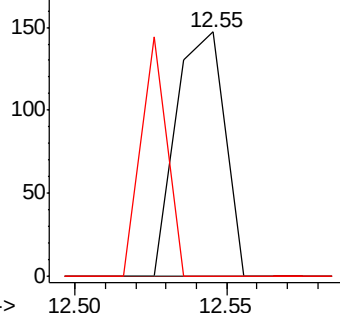
#86
p-Isopropyltoluene
Concen: 34.942 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.03 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0002-01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.9	38.7#
91	51.8	12.3	36.8#

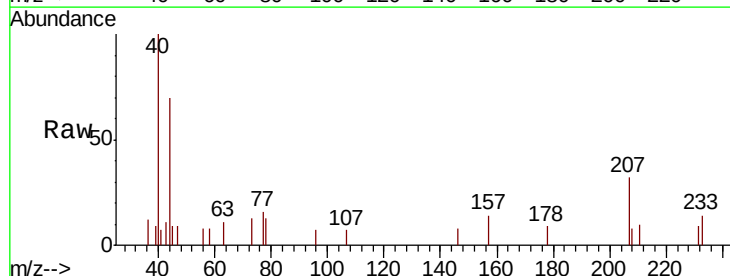


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

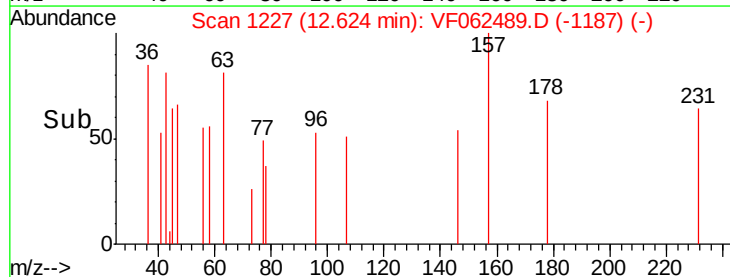
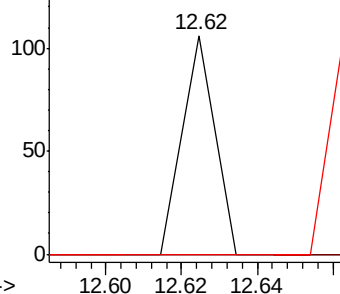


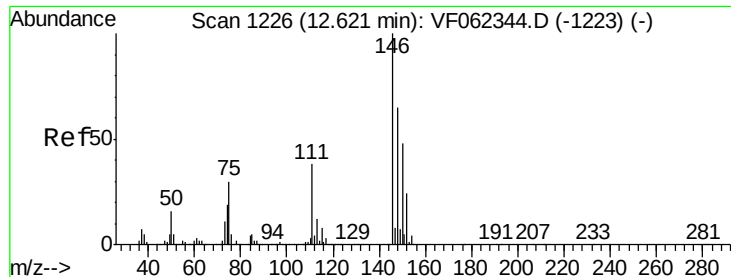
#87
1,3-Dichlorobenzene
Concen: 29.172 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.09 min
Lab File: VF062489.D
Acq: 12 May 2019 6:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.3	54.8#
148	0.0	32.3	96.9#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 30.225 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

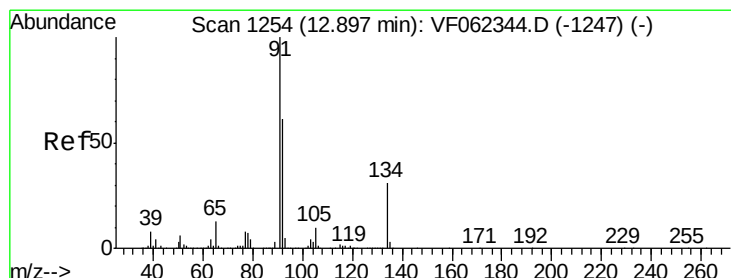
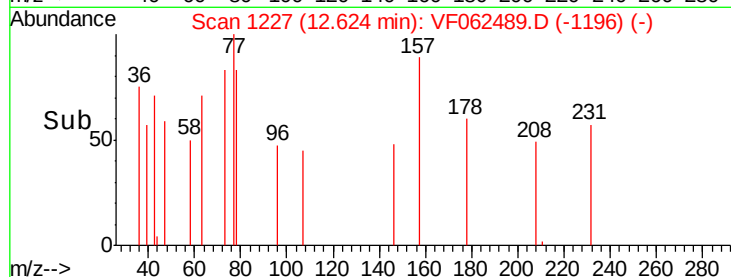
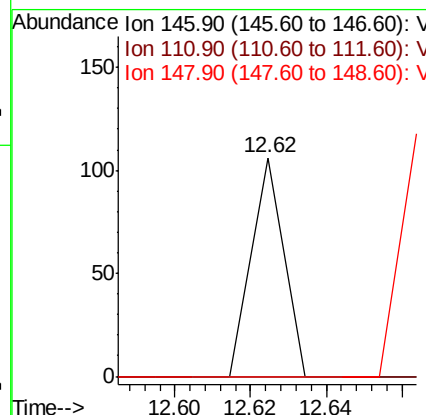
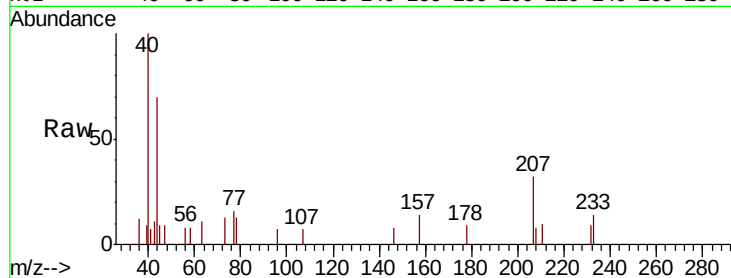
Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

Tgt Ion:	146	Resp:	63
Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.8	56.3#
148	0.0	32.2	96.6#



#89

n-Butylbenzene

Concen: 16.045 ug/l

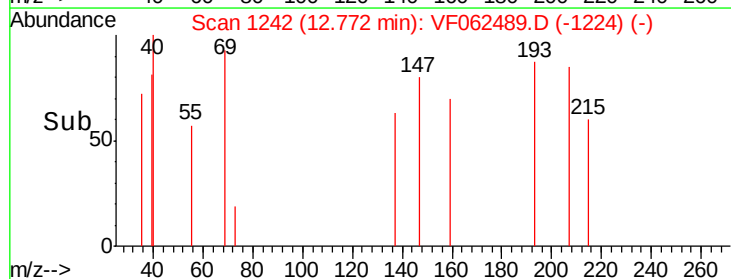
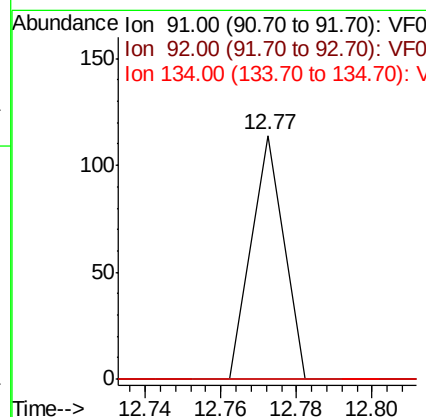
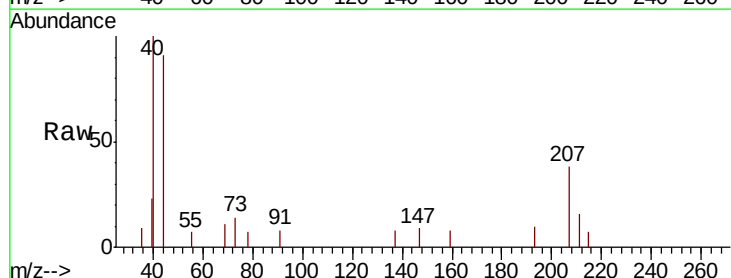
RT: 12.77 min Scan# 1242

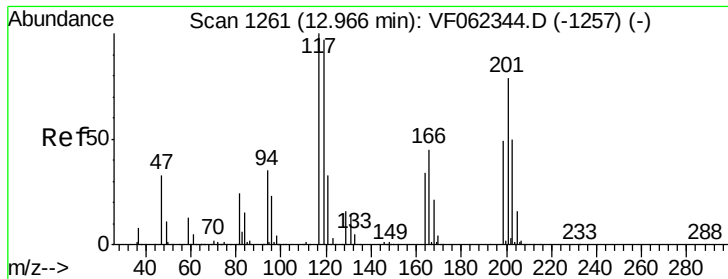
Delta R.T. -0.12 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Tgt Ion:	91	Resp:	67
Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.0	90.0#
134	0.0	14.1	42.4#





#90

Hexachloroethane

Concen: 62.292 ug/l

RT: 13.05 min Scan# 1270

Delta R.T. 0.08 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

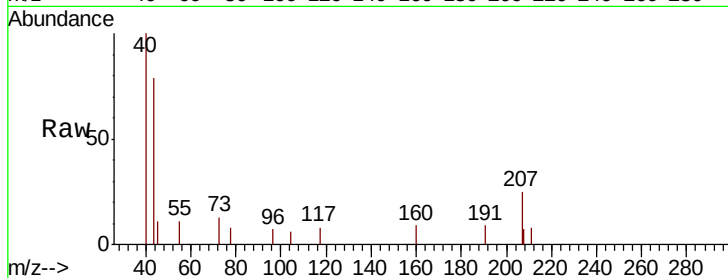
P021-SS006-0002-01

Tgt Ion:117 Resp: 73

Ion Ratio Lower Upper

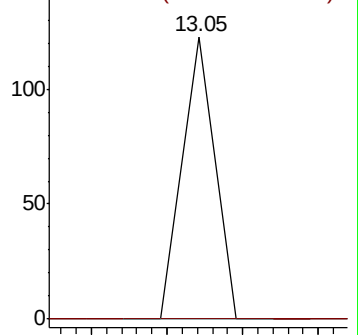
117 100

201 0.0 46.2 138.5#

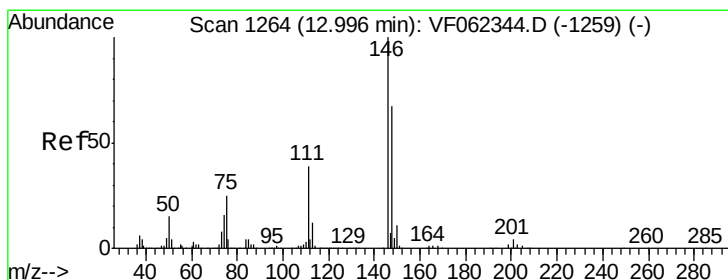
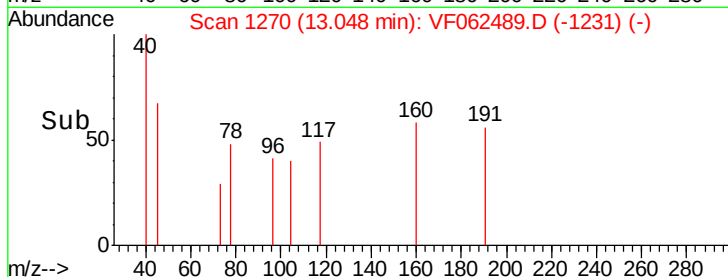


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->



#91

1,2-Dichlorobenzene

Concen: 35.401 ug/l

RT: 12.93 min Scan# 1258

Delta R.T. -0.07 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

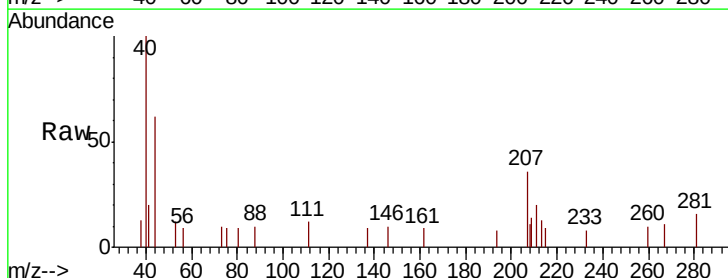
Tgt Ion:146 Resp: 74

Ion Ratio Lower Upper

146 100

111 124.3 20.0 60.0#

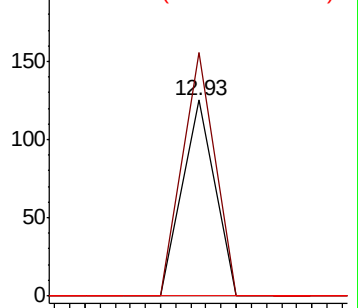
148 0.0 33.1 99.5#



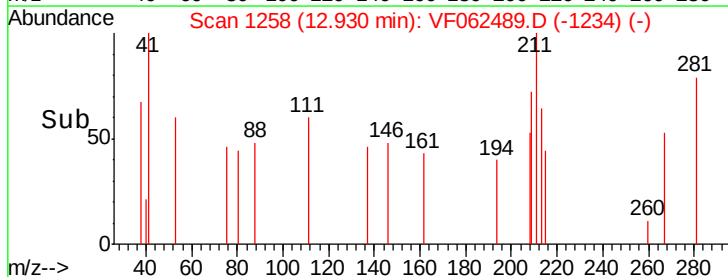
Abundance Ion 145.90 (145.60 to 146.60): V

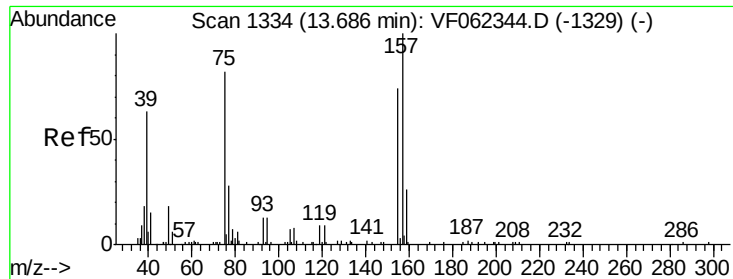
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 442.912 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.01 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0002-01

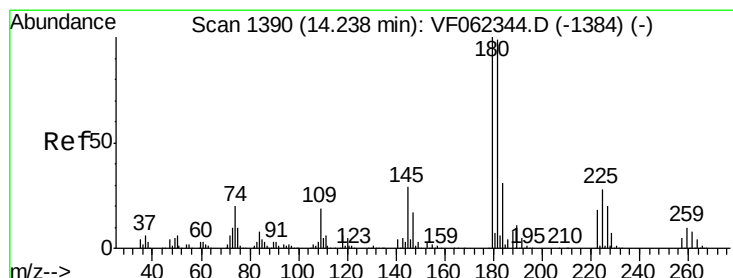
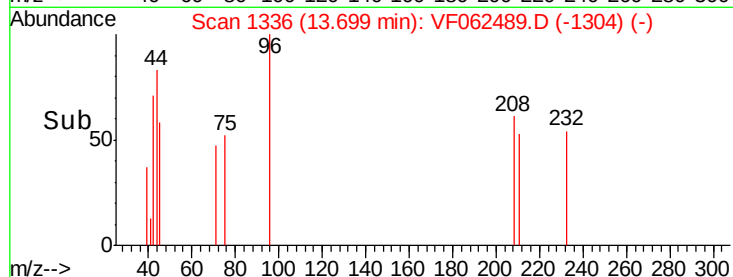
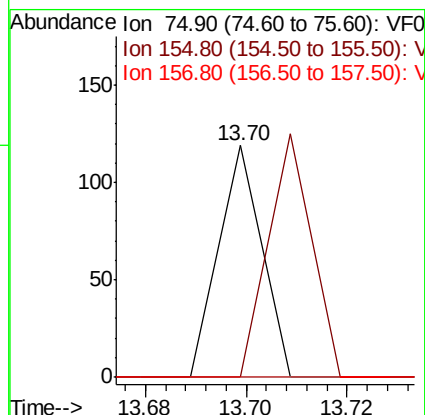
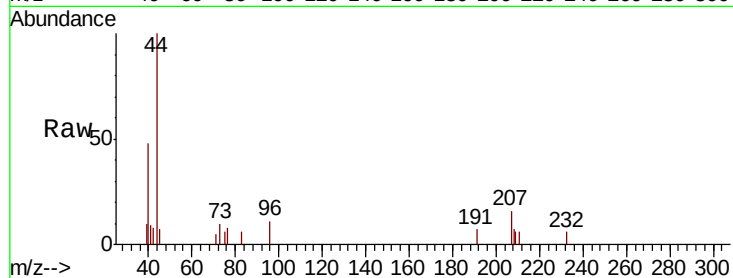
Tgt Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

155 105.7 51.8 155.4

157 0.0 67.3 201.8#



#93

1,2,4-Trichlorobenzene

Concen: 42.135 ug/l

RT: 14.12 min Scan# 1379

Delta R.T. -0.11 min

Lab File: VF062489.D

Acq: 12 May 2019 6:10

Tgt Ion: 180 Resp: 79

Ion Ratio Lower Upper

180 100

182 0.0 49.0 147.0#

145 0.0 16.7 50.1#

