

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020819\
 Data File : VF061574.D
 Acq On : 8 Feb 2019 23:04
 Operator : VA/AP
 Sample : K1349-01RE
 Misc : 7.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

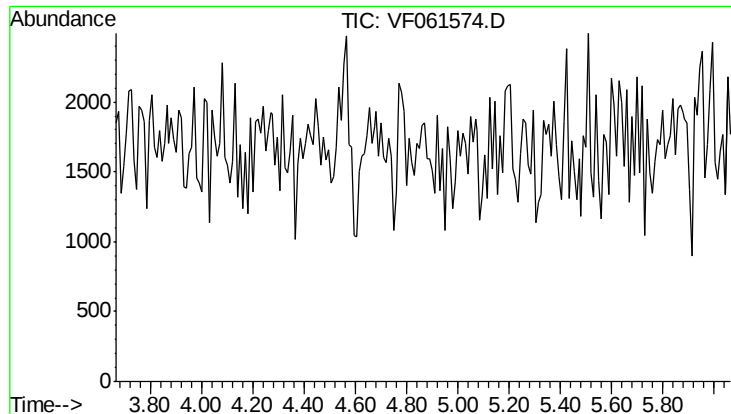
Quant Time: Feb 09 04:34:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.86
34) 1,4-Difluorobenzene	5.98	114	70	50.00	ug/l	0.39
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.77
72) 1,4-Dichlorobenzene-d4	12.55	152	67	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	4.41	43	210	647.291	ug/l #	5
39) Methylcyclohexane	5.87	83	94	106.872	ug/l #	15
41) Methacrylonitrile	5.01	41	70	405.491	ug/l #	29
42) 1,2-Dichloroethane	5.35	62	60	93.233	ug/l	76
43) Isopropyl Acetate	7.40	43	68	167.002	ug/l #	51
48) Methyl methacrylate	7.16	41	218	797.298	ug/l #	19
49) 1,4-Dioxane	6.97	88	68	38210.906	ug/l #	13
51) 4-Methyl-2-Pentanone	8.83	43	72	240.527	ug/l #	39
53) t-1,3-Dichloropropene	8.92	75	73	117.894	ug/l #	44
59) 2-Hexanone	10.10	43	236	1130.607	ug/l #	26
74) N-amyl acetate	11.39	43	165	128.051	ug/l #	47
78) n-propylbenzene	11.55	91	69	9.602	ug/l #	54
79) 2-Chlorotoluene	11.55	91	69	18.250	ug/l #	45
81) trans-1,4-Dichloro-2-buten	11.99	75	71	234.147	ug/l #	19
82) 4-Chlorotoluene	12.03	91	72	18.871	ug/l #	43
84) 1,2,4-Trimethylbenzene	12.22	105	60	13.246	ug/l #	28
85) sec-Butylbenzene	12.22	105	60	9.707	ug/l #	56
90) Hexachloroethane	12.98	117	88	73.572	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.77	75	138	801.471	ug/l #	1
95) Naphthalene	14.45	128	86	30.014	ug/l #	71

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.86 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Tot Ion: 168

Sig Exp Ratio

168 100

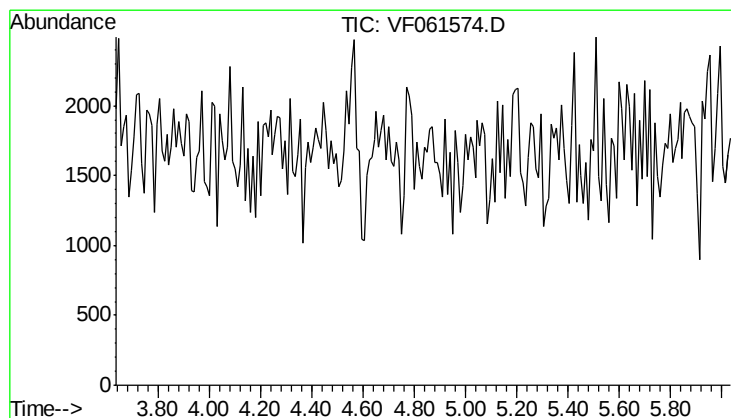
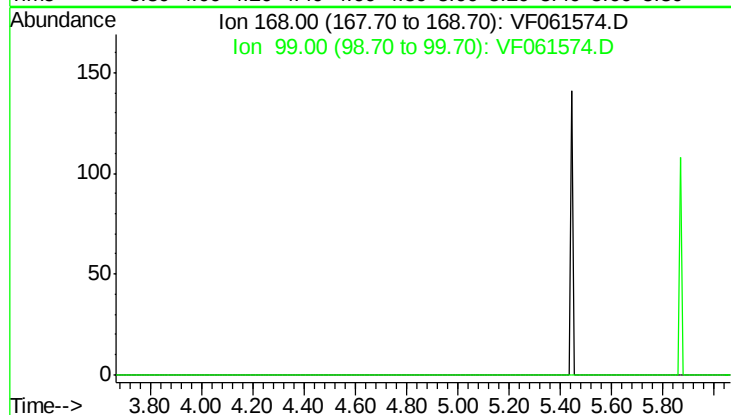
99 66.9

Instrument :

MSVOA_F

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OR-03-020719-ARE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.83 min

Lab File: VF061574.D

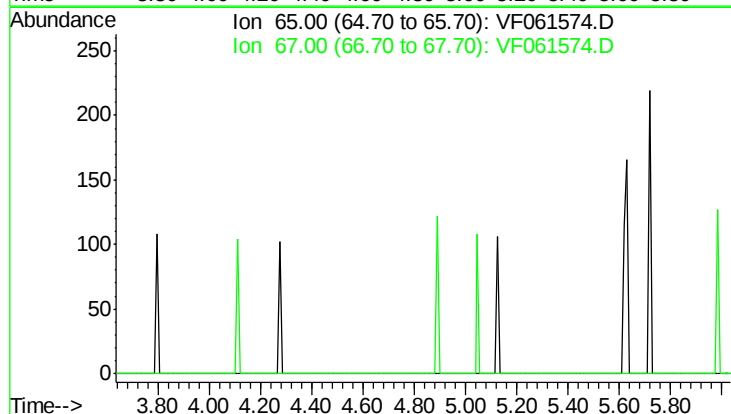
Acq: 8 Feb 2019 23:04

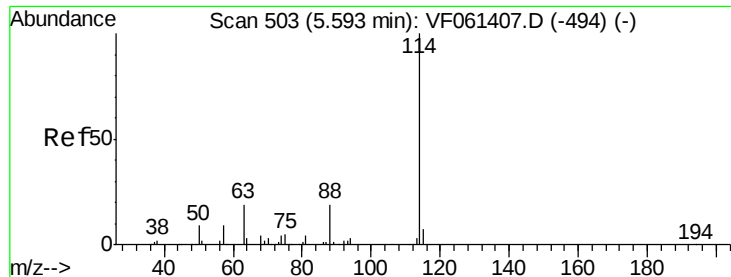
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.9





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.98 min Scan# 543

Delta R.T. 0.39 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

OR-03-020719-ARE

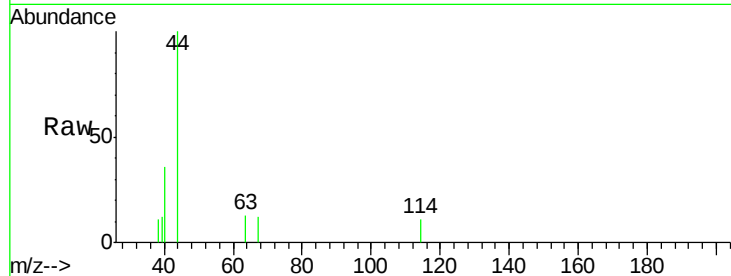
Tot Ion:114 Resp: 70

Ion Ratio Lower Upper

114 100

63 121.0 0.0 39.0#

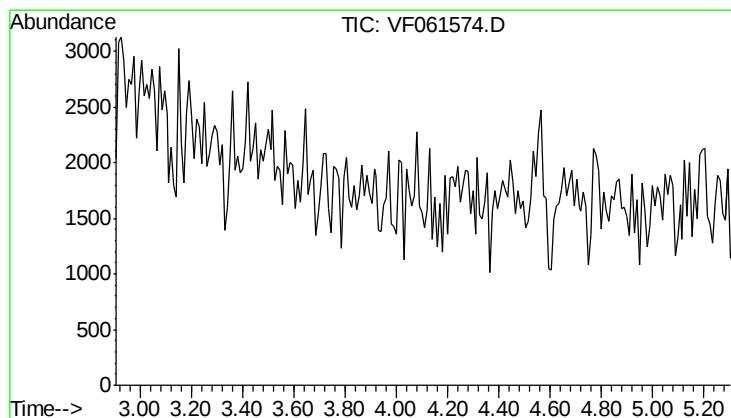
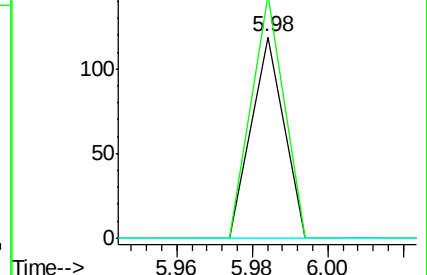
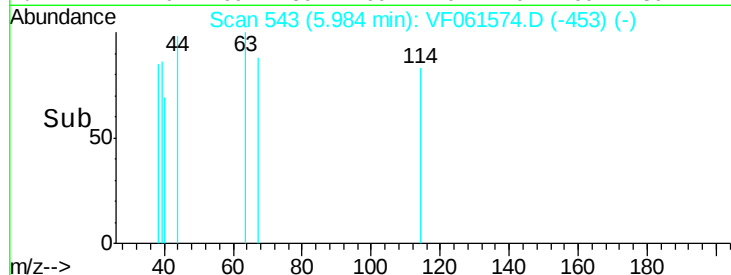
88 0.0 0.0 37.4



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: 4.10 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

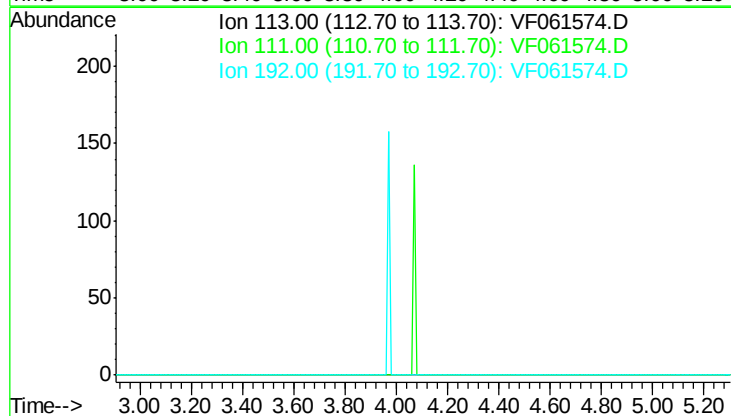
Tgt Ion: 113

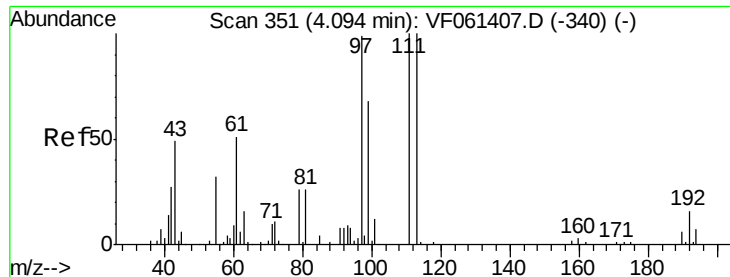
Sig Exp Ratio

113 100

111 99.2

192 15.5





#37

Ethyl Acetate

Concen: 647.291 ug/l

RT: 4.41 min Scan# 383

Delta R.T. 0.31 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

OR-03-020719-ARE

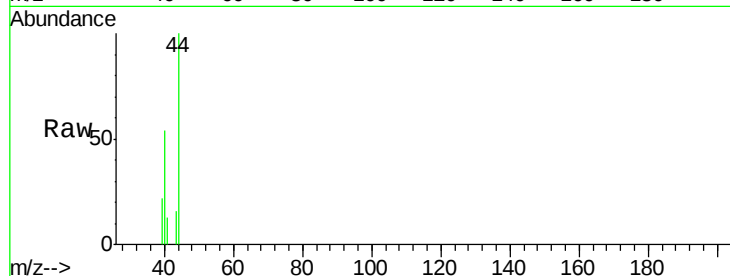
Tot Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

61 0.0 81.7 122.5#

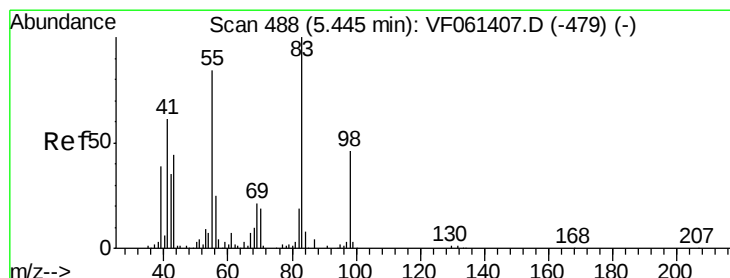
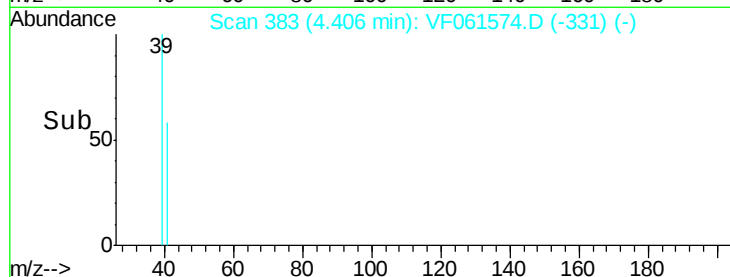
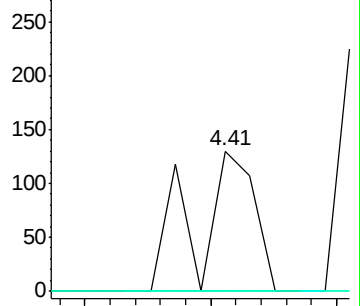
70 0.0 6.2 9.2#



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

Methylcyclohexane

Concen: 106.872 ug/l

RT: 5.87 min Scan# 531

Delta R.T. 0.42 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

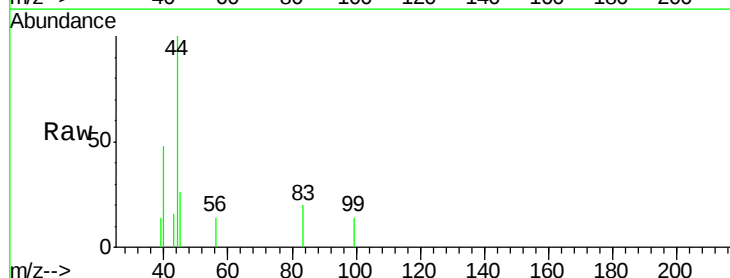
Tgt Ion: 83 Resp: 94

Ion Ratio Lower Upper

83 100

55 0.0 67.4 101.2#

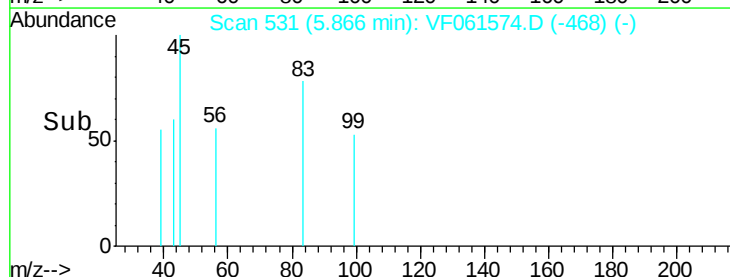
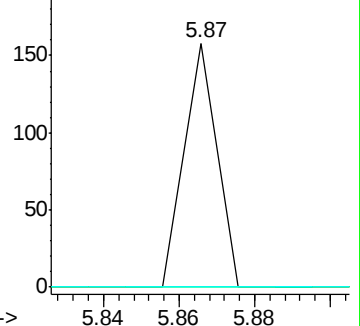
98 0.0 36.7 55.1#

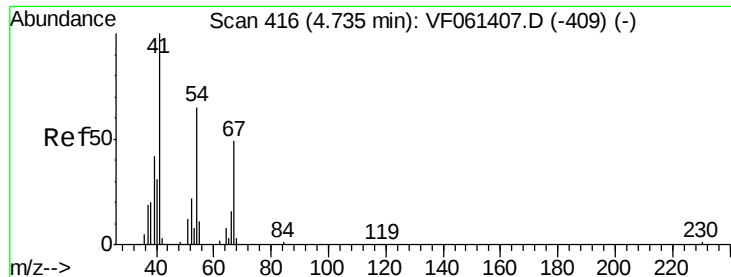


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 405.491 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.27 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

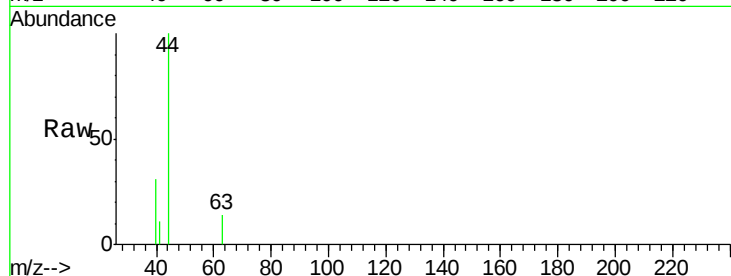
MSVOA_F

ClientSampleId :

OR-03-020719-ARE

Tot Ion: 41 Resp: 70

Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	0.0	38.8	58.2#
52	0.0	33.2	49.8#

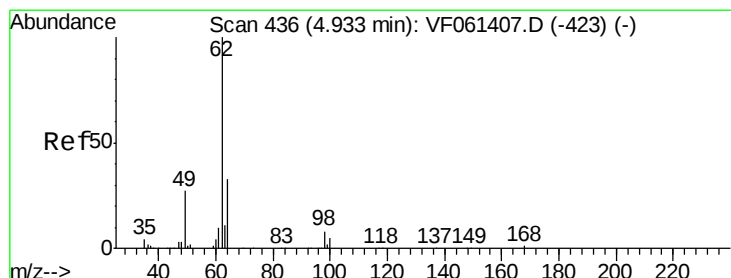
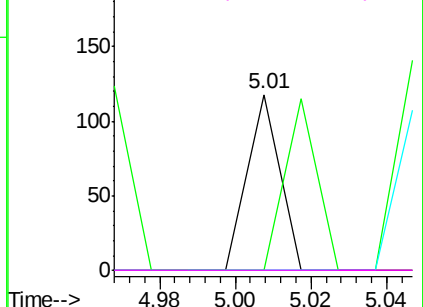
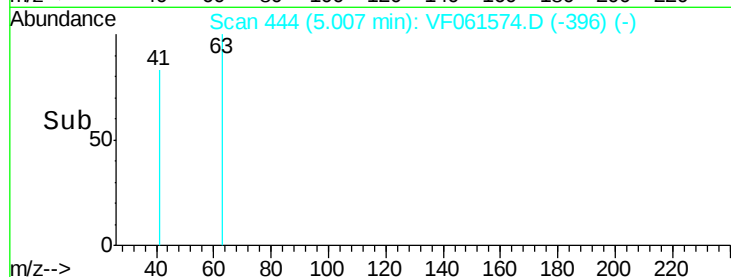


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 93.233 ug/l

RT: 5.35 min Scan# 479

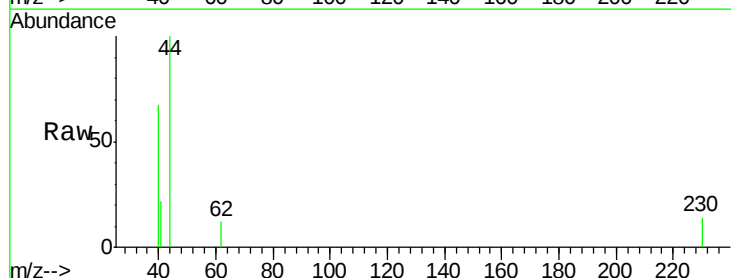
Delta R.T. 0.42 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

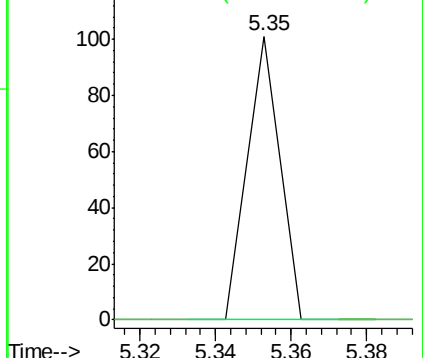
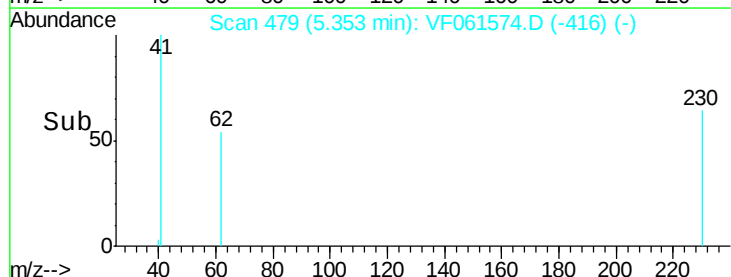
Tgt Ion: 62 Resp: 60

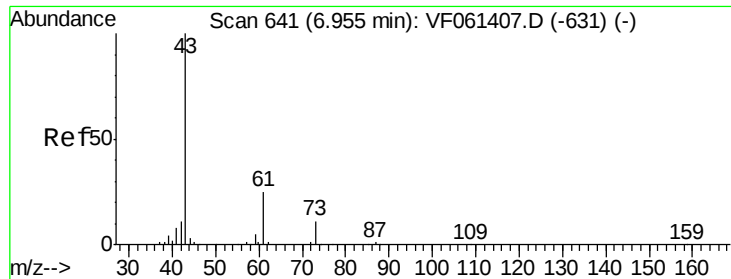
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



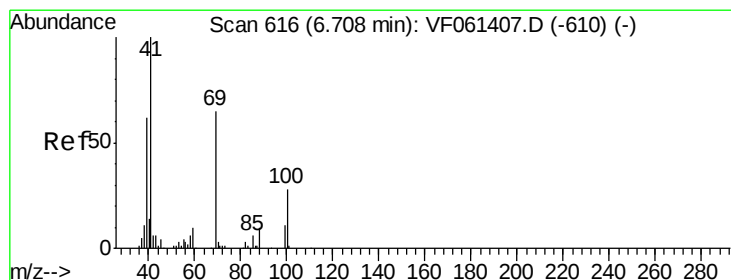
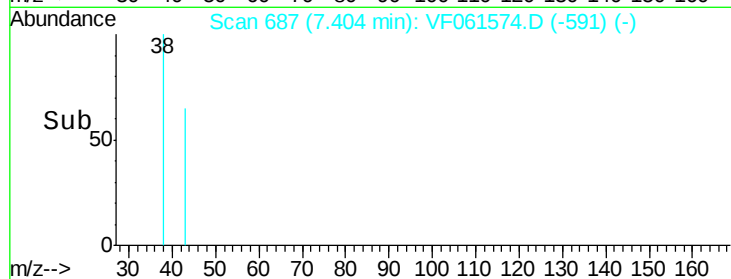
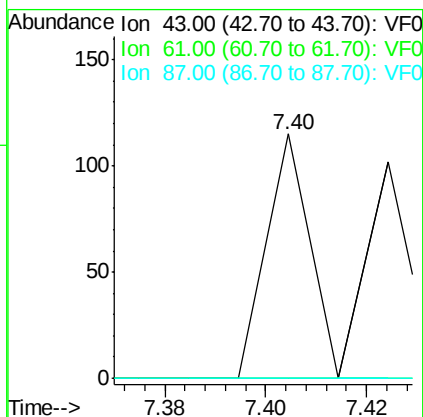
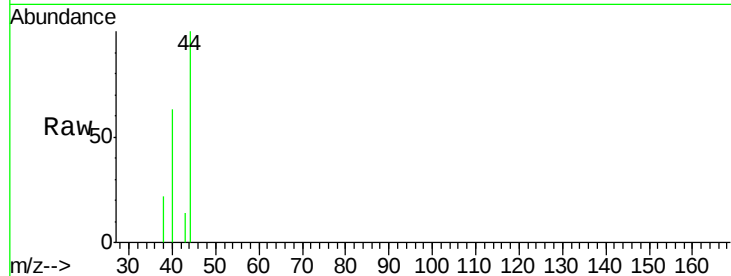


#43

Isopropyl Acetate
 Concen: 167.002 ug/l
 RT: 7.40 min Scan# 687
 Delta R.T. 0.45 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

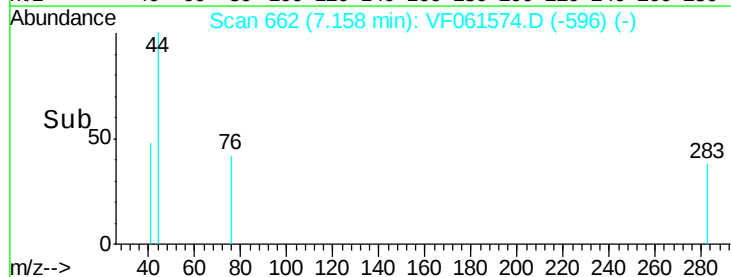
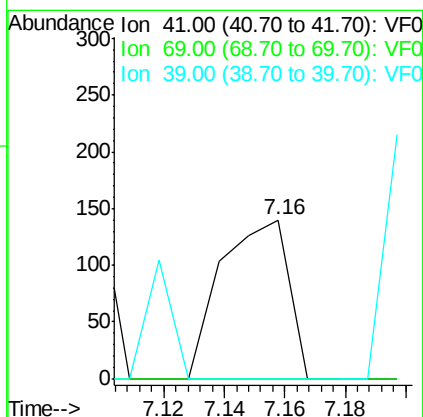
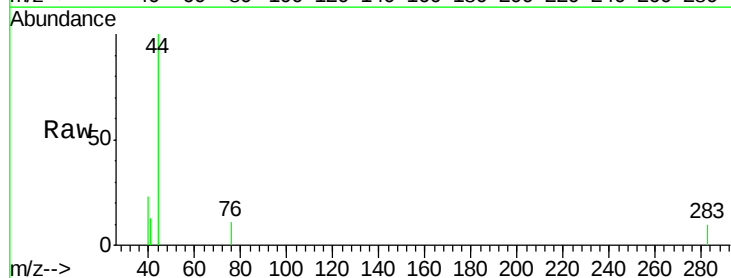
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.3	30.5#
87	0.0	0.5	0.7#

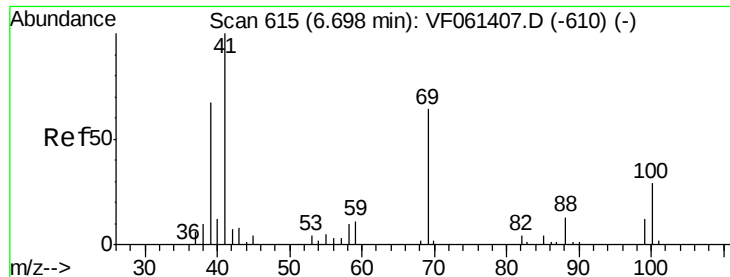


#48

Methyl methacrylate
 Concen: 797.298 ug/l
 RT: 7.16 min Scan# 662
 Delta R.T. 0.45 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	51.7	77.5#
39	0.0	49.2	73.8#

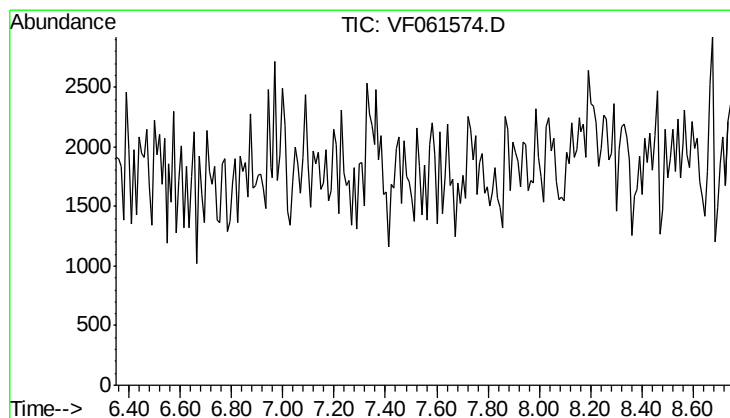
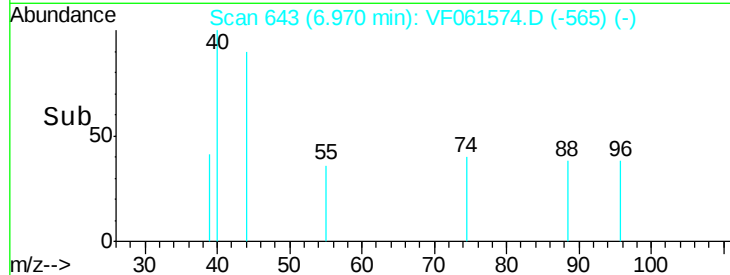
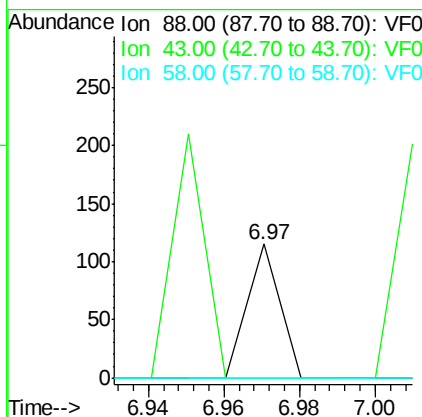
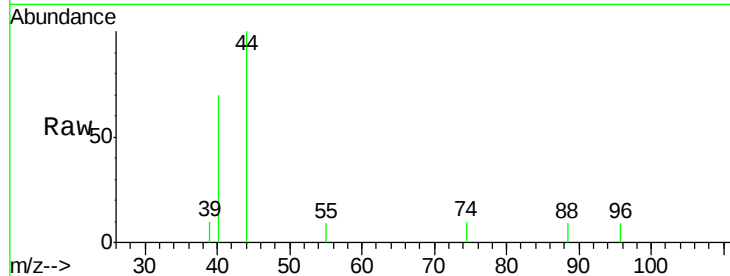




#49
 1,4-Dioxane
 Concen: 38210.906 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.27 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

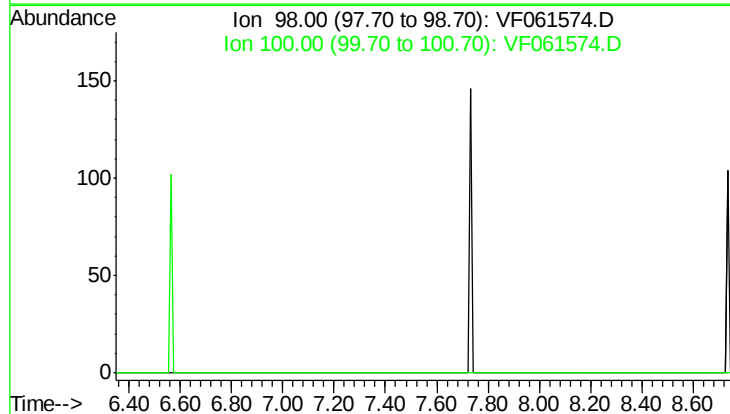
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

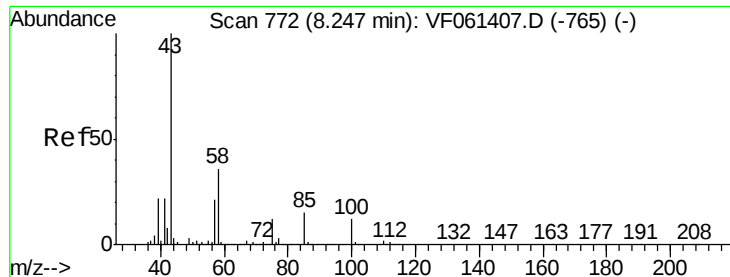
Tot Ion: 88 Resp: 68
 Ion Ratio Lower Upper
 88 100
 43 0.0 55.5 83.3#
 58 0.0 59.9 89.9#



#50
 Toluene-d8
 Concen: 0.000 ug/l
 Expected RT: 7.55 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Tgt Ion: 98
 Sig Exp Ratio
 98 100
 100 69.5





#51

4-Methyl-2-Pentanone

Concen: 240.527 ug/l

RT: 8.83 min Scan# 832

Delta R.T. 0.59 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

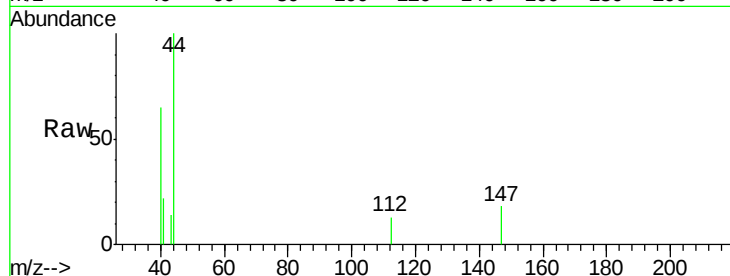
OR-03-020719-ARE

Tot Ion: 43 Resp: 72

Ion Ratio Lower Upper

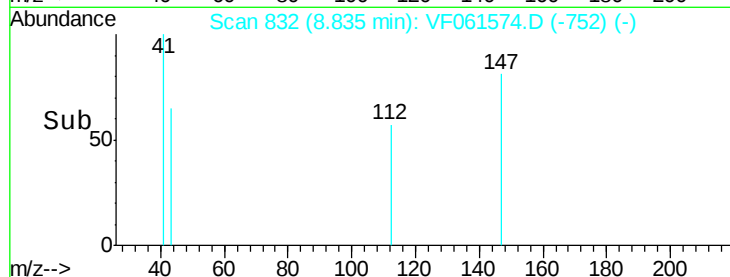
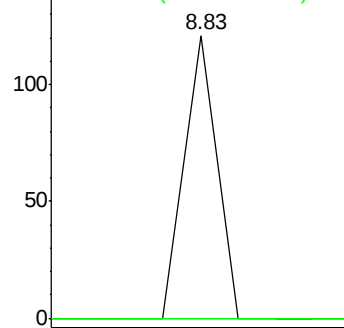
43 100

58 0.0 28.8 43.2#

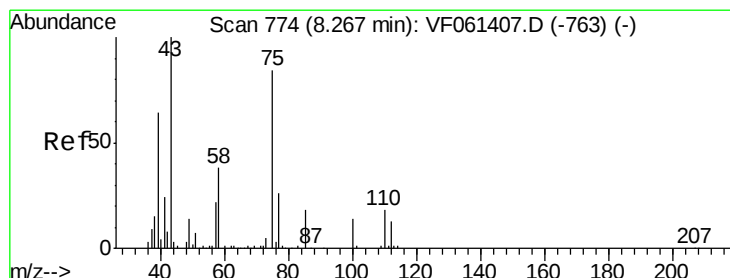


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#53

t-1,3-Dichloropropene

Concen: 117.894 ug/l

RT: 8.92 min Scan# 841

Delta R.T. 0.66 min

Lab File: VF061574.D

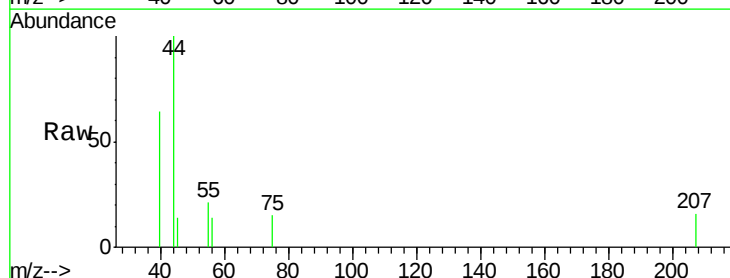
Acq: 8 Feb 2019 23:04

Tgt Ion: 75 Resp: 73

Ion Ratio Lower Upper

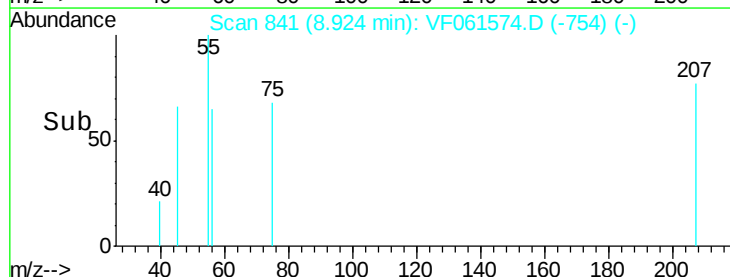
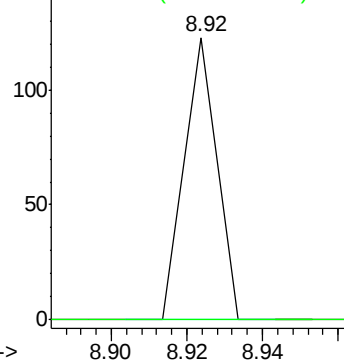
75 100

77 0.0 24.4 36.6#

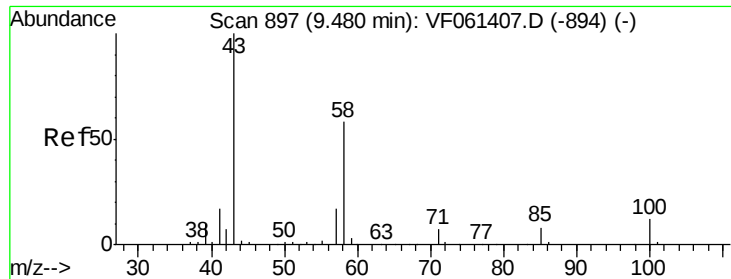


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



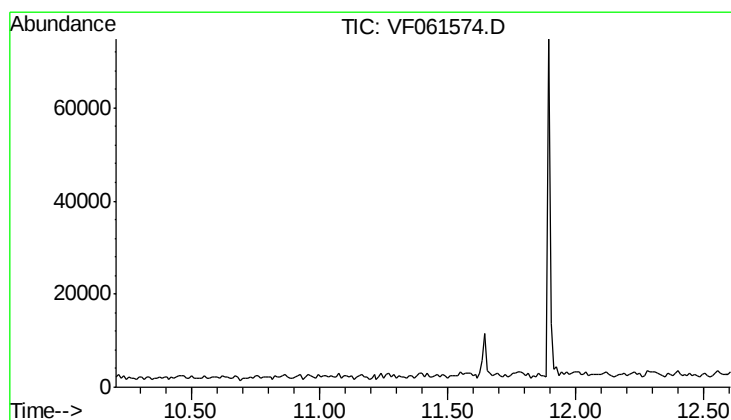
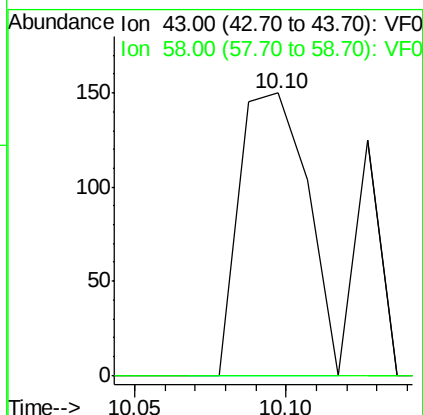
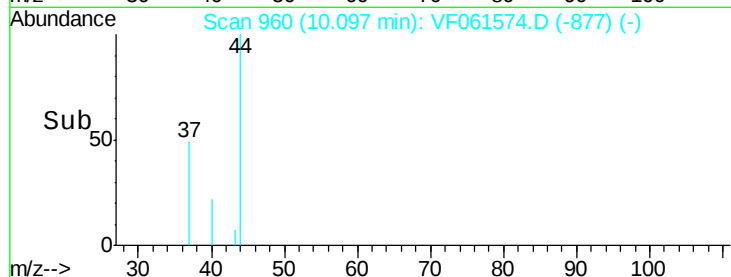
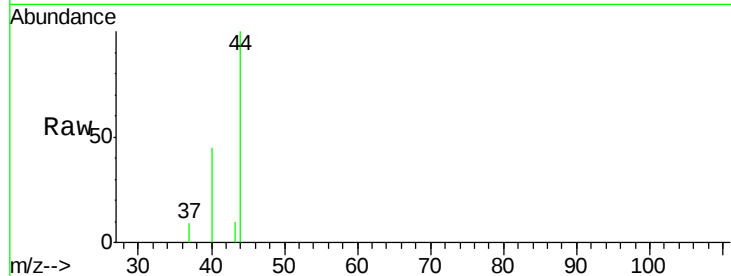
Time-->



#59
2-Hexanone
Concen: 1130.607 ug/l
RT: 10.10 min Scan# 960
Delta R.T. 0.62 min
Lab File: VF061574.D
Acq: 8 Feb 2019 23:04

Instrument :
MSVOA_F
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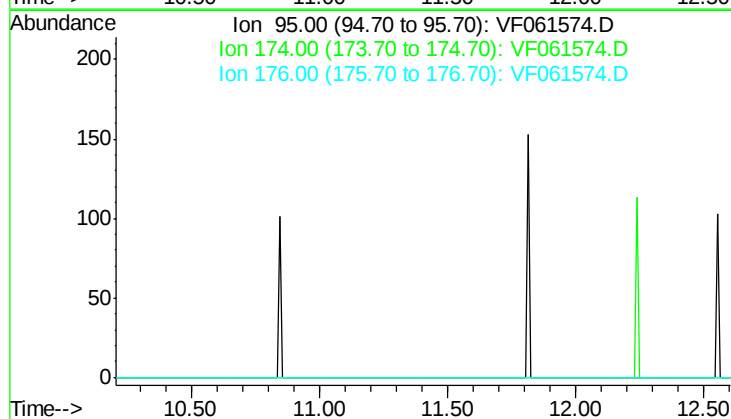
Tot Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#

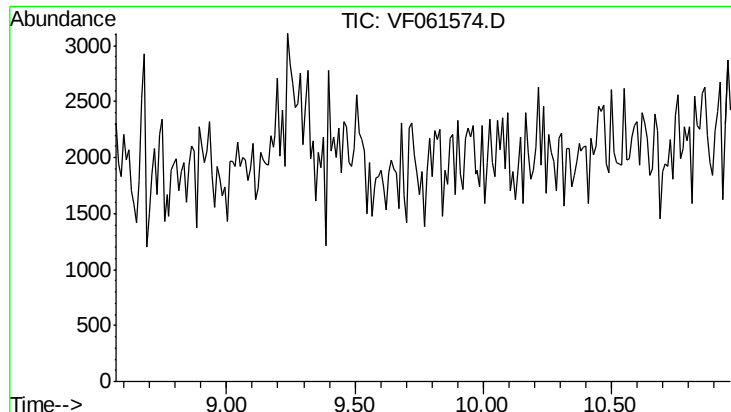


#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.40 min

Lab File: VF061574.D
Acq: 8 Feb 2019 23:04

Tgt Ion: 95
Sig Exp Ratio
95 100
174 65.2
176 63.1

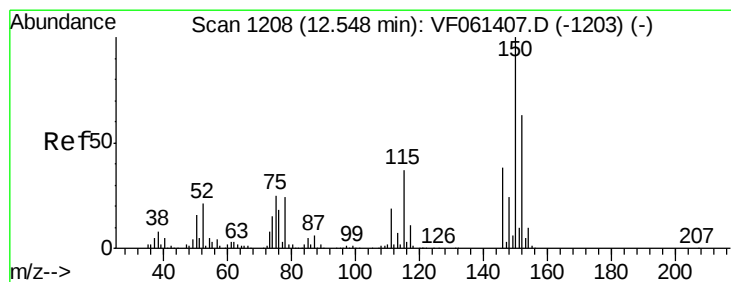
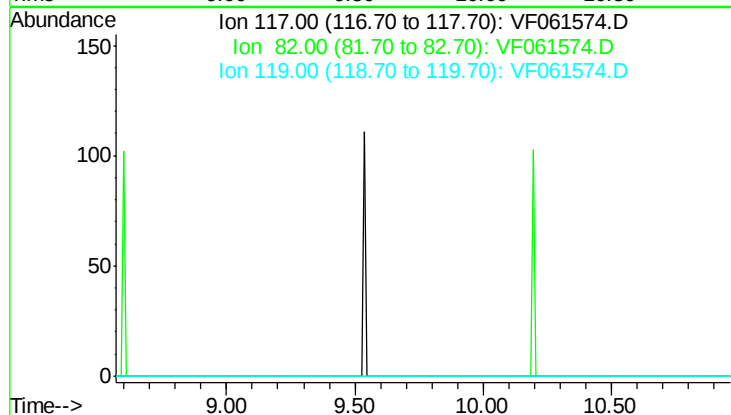




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.77 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

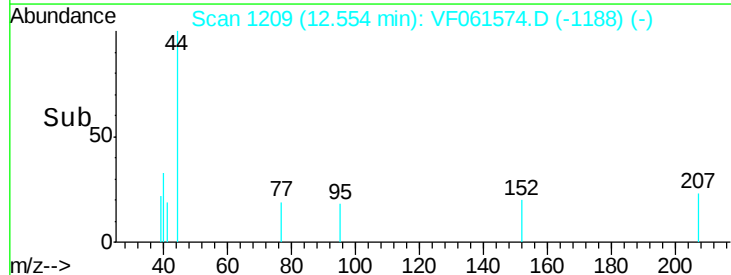
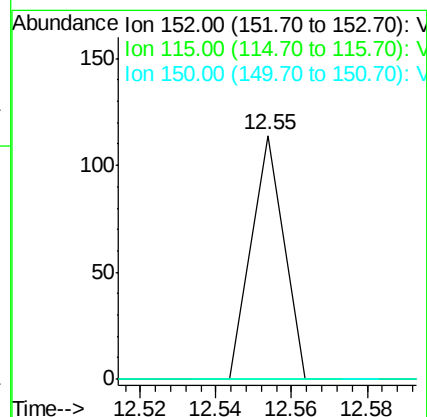
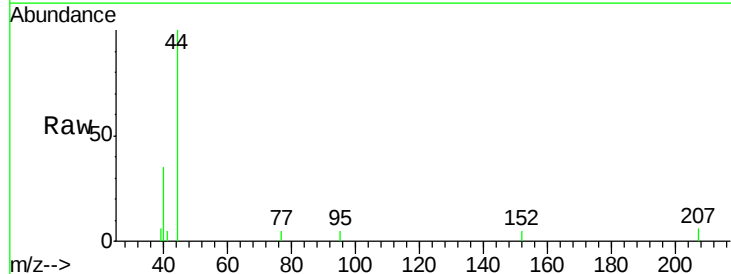
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

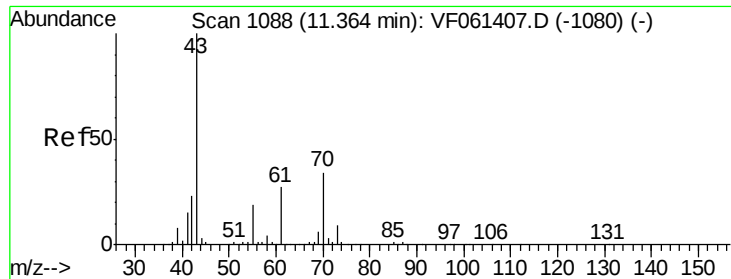
Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 58.0
 119 34.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. 0.01 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Tgt Ion:152 Resp: 67
 Ion Ratio Lower Upper
 152 100
 115 0.0 30.0 90.0#
 150 0.0 0.0 321.4





#74

N-amvl acetate

Concen: 128.051 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.03 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

OR-03-020719-ARE

Tot Ion: 43 Resp: 165

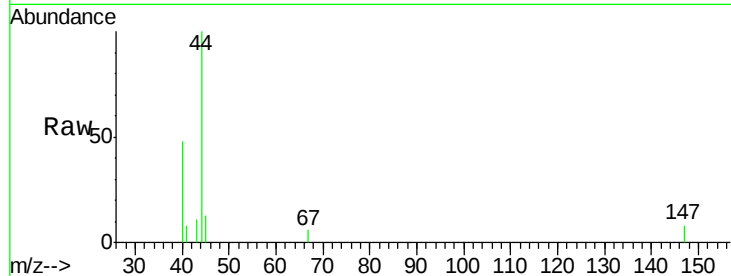
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 21.8 32.6#

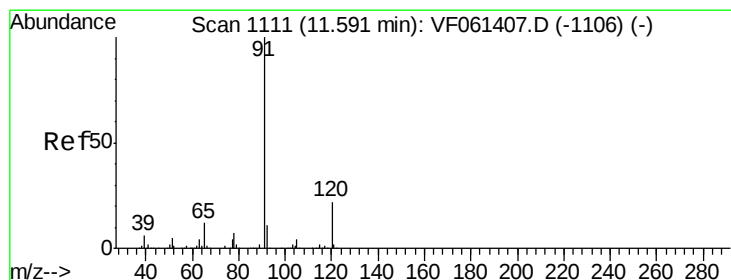
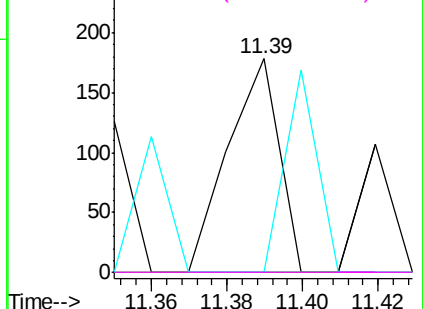
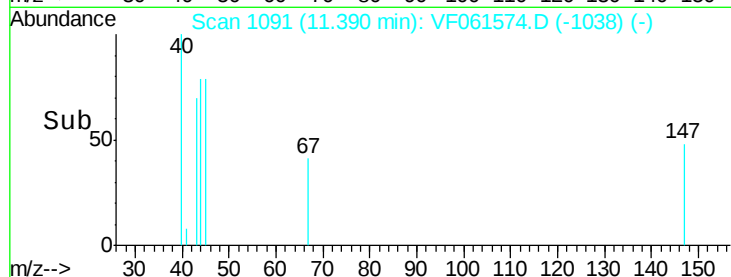


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#78

n-propylbenzene

Concen: 9.602 ug/l

RT: 11.55 min Scan# 1107

Delta R.T. -0.04 min

Lab File: VF061574.D

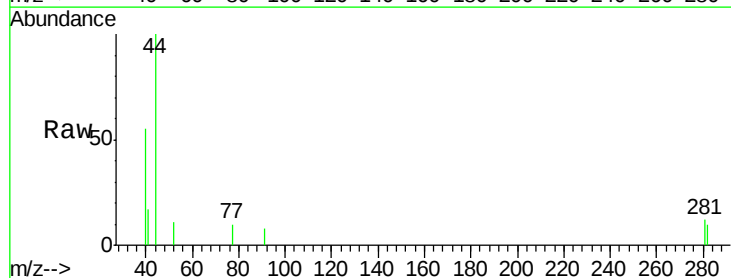
Acq: 8 Feb 2019 23:04

Tgt Ion: 91 Resp: 69

Ion Ratio Lower Upper

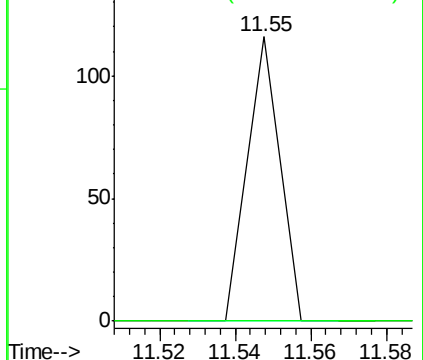
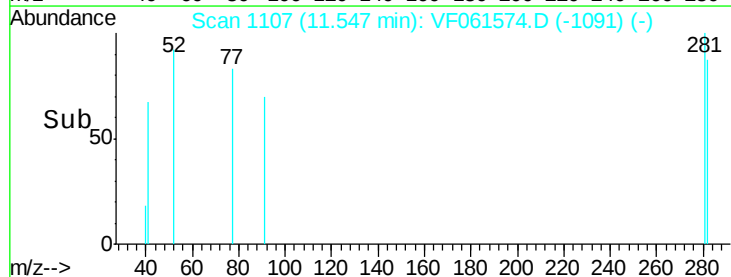
91 100

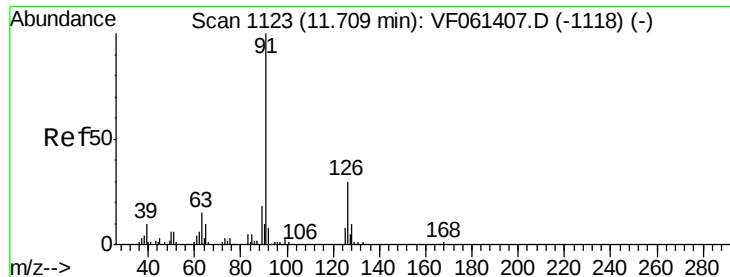
120 0.0 10.9 32.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.250 ug/l

RT: 11.55 min Scan# 1107

Delta R.T. -0.16 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

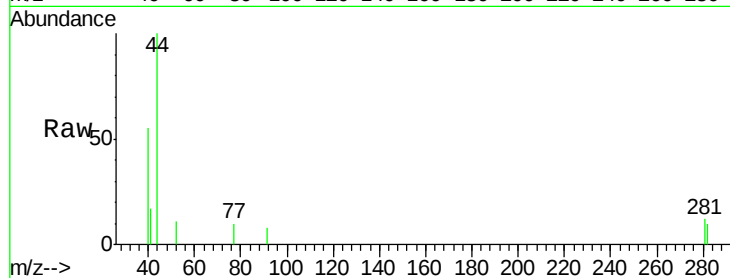
OR-03-020719-ARE

Tot Ion: 91 Resp: 69

Ion Ratio Lower Upper

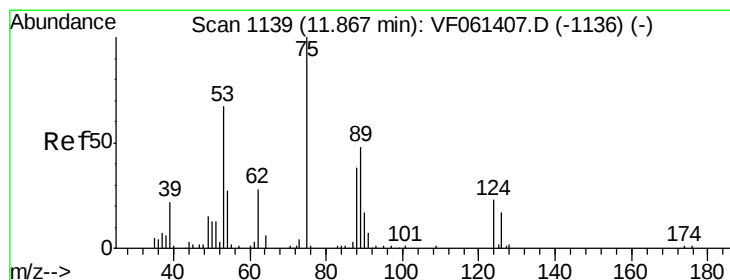
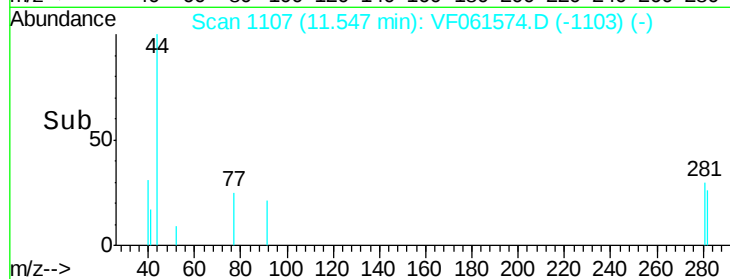
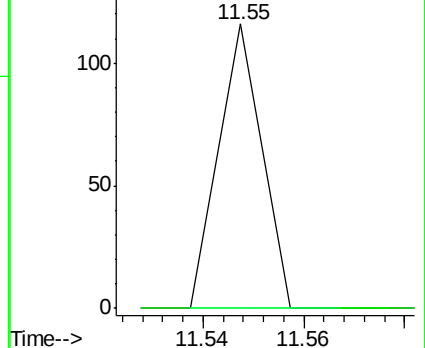
91 100

126 0.0 15.0 45.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 234.147 ug/l

RT: 11.99 min Scan# 1152

Delta R.T. 0.12 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

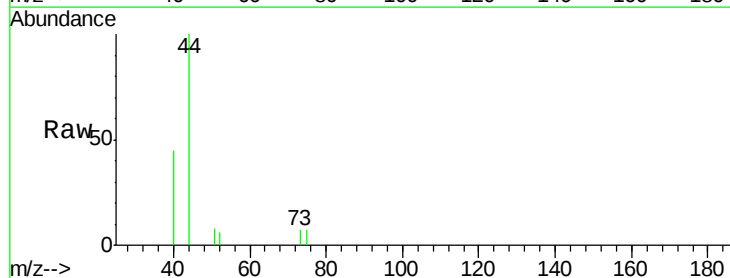
Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

53 0.0 57.8 86.6#

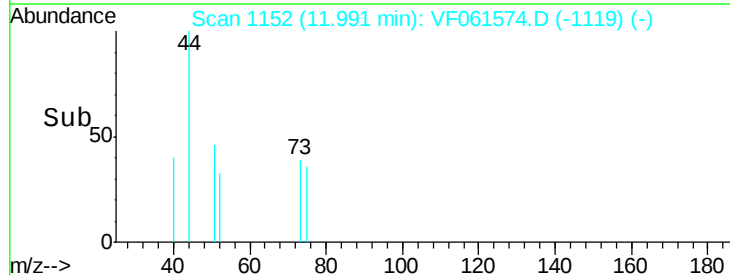
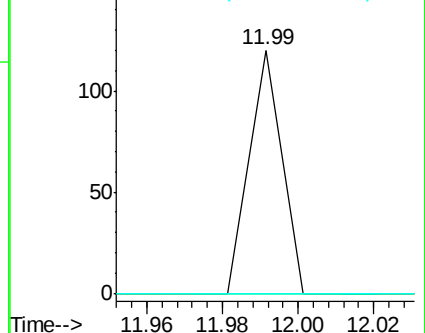
89 0.0 40.7 61.1#

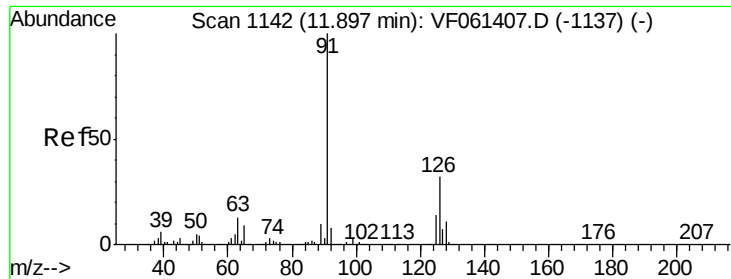


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

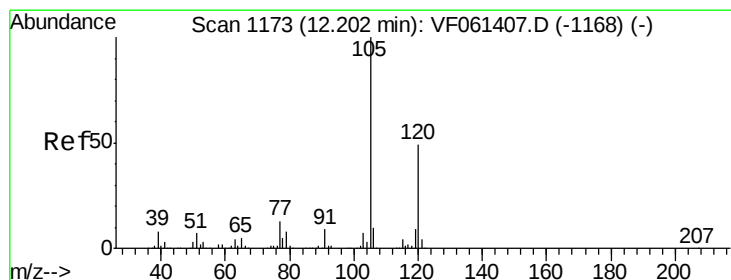
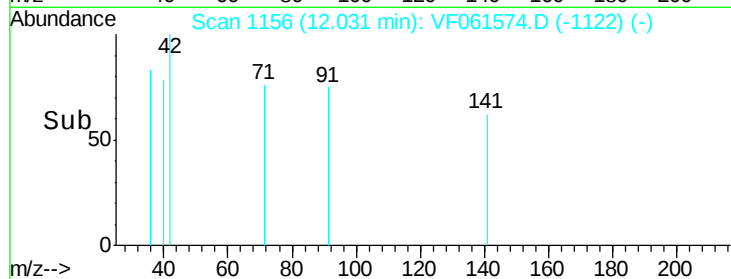
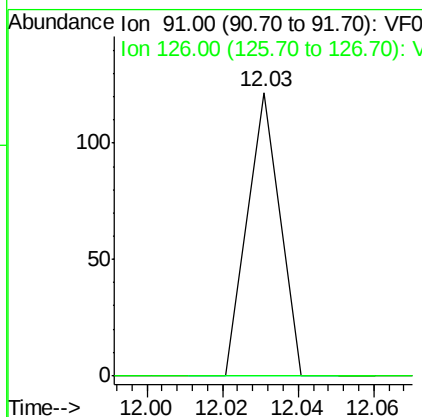
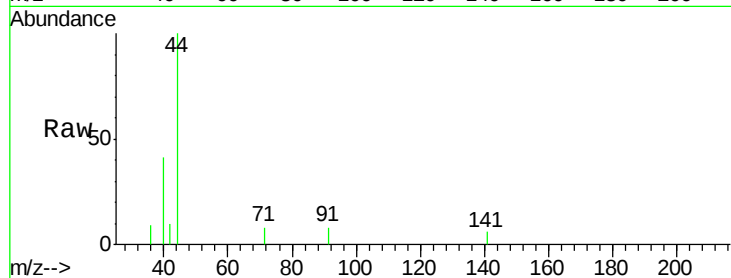




#82
 4-Chlorotoluene
 Concen: 18.871 ug/l
 RT: 12.03 min Scan# 1156
 Delta R.T. 0.13 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

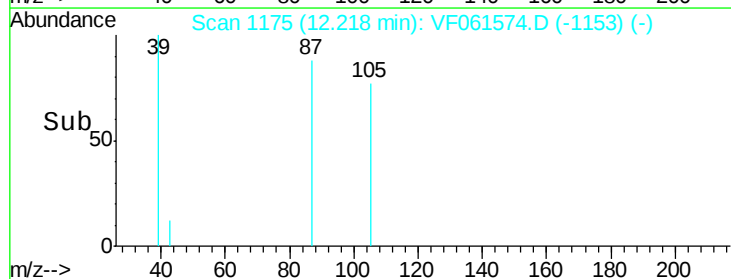
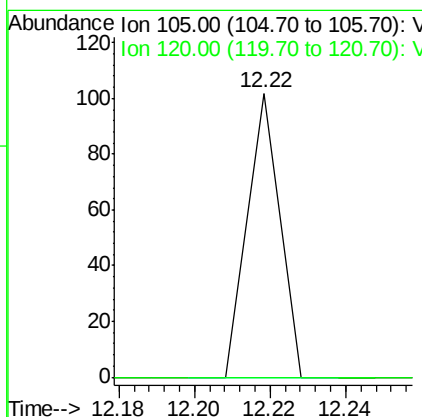
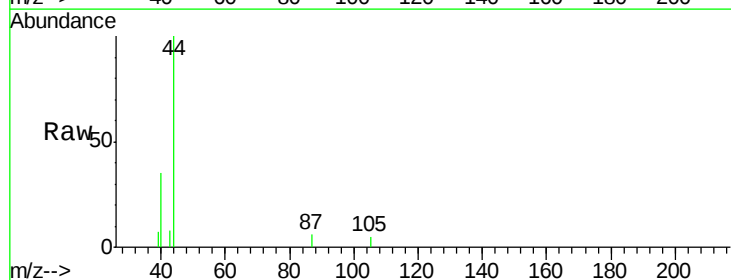
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

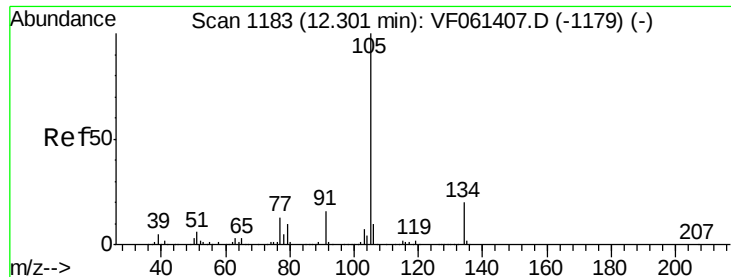
Tot Ion: 91 Resp: 72
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.0 47.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 13.246 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. 0.02 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Tgt Ion: 105 Resp: 60
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.9 74.6#

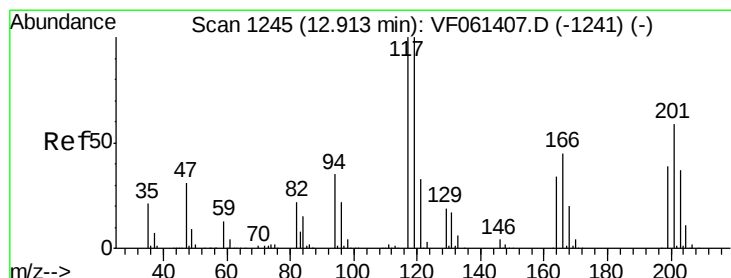
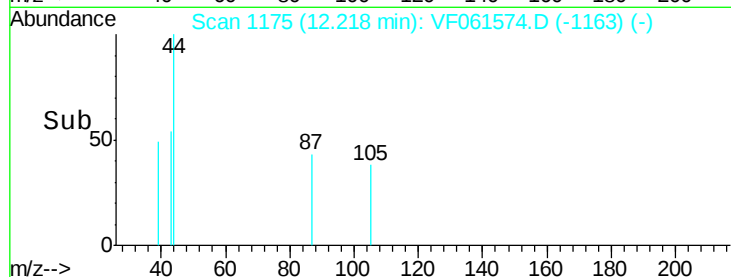
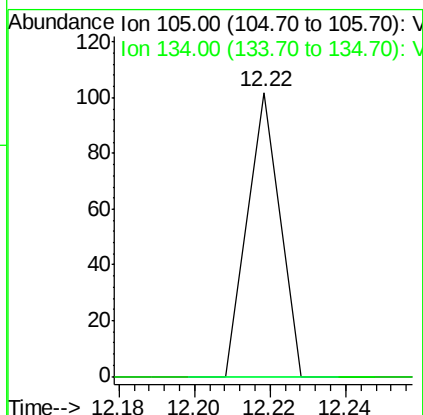
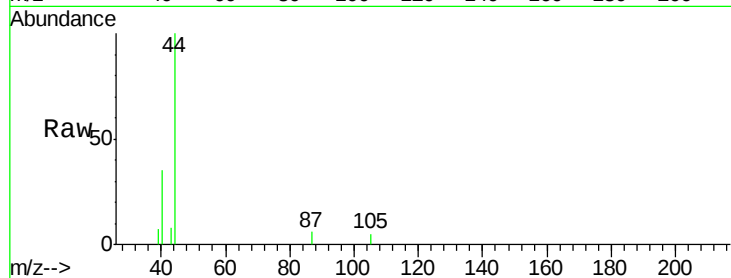




#85
 sec-Butylbenzene
 Concen: 9.707 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. -0.08 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

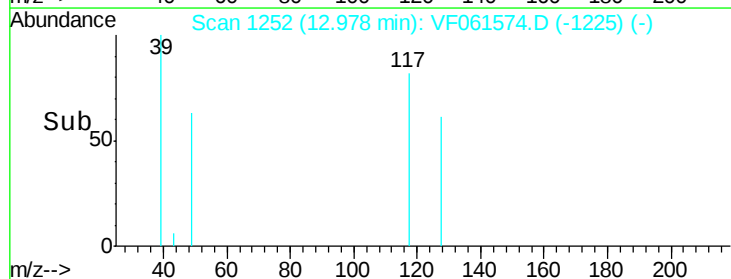
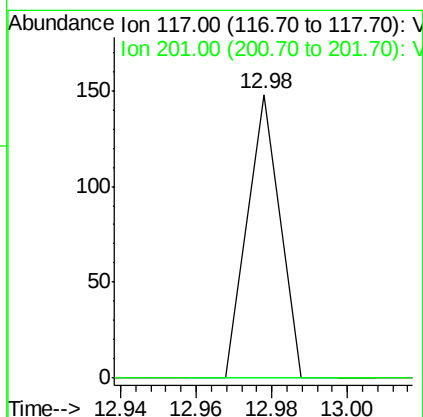
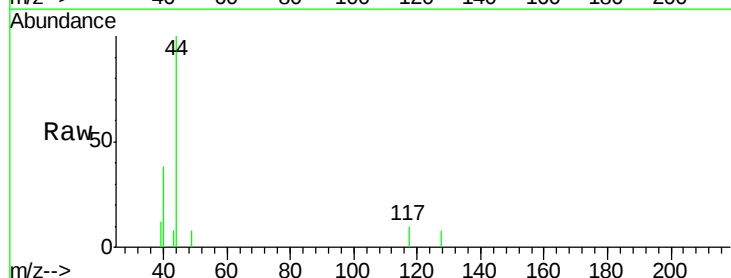
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-020719-ARE

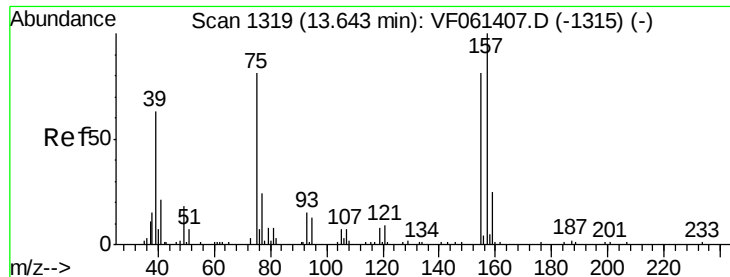
Tot Ion:105 Resp: 60
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 30.0#



#90
 Hexachloroethane
 Concen: 73.572 ug/l
 RT: 12.98 min Scan# 1252
 Delta R.T. 0.07 min
 Lab File: VF061574.D
 Acq: 8 Feb 2019 23:04

Tgt Ion:117 Resp: 88
 Ion Ratio Lower Upper
 117 100
 201 0.0 29.3 87.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 801.471 ug/l

RT: 13.77 min Scan# 1332

Delta R.T. 0.12 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

Instrument :

MSVOA_F

ClientSampleId :

OR-03-020719-ARE

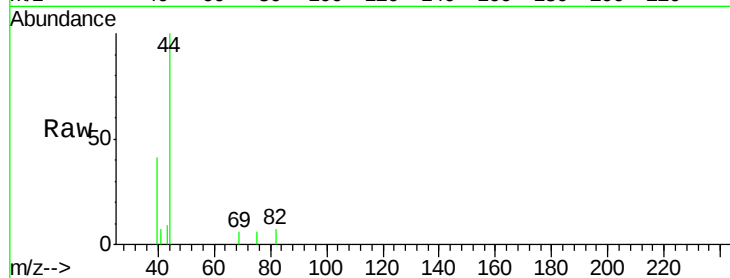
Tot Ion: 75 Resp: 138

Ion Ratio Lower Upper

75 100

155 0.0 49.7 149.1#

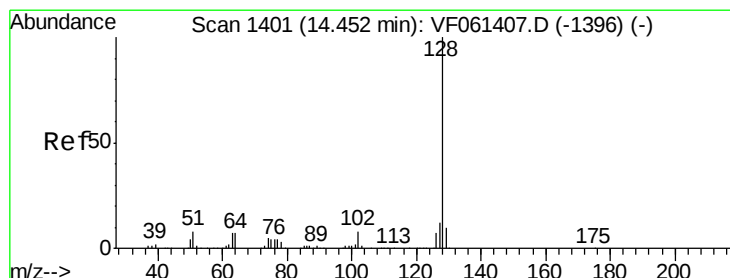
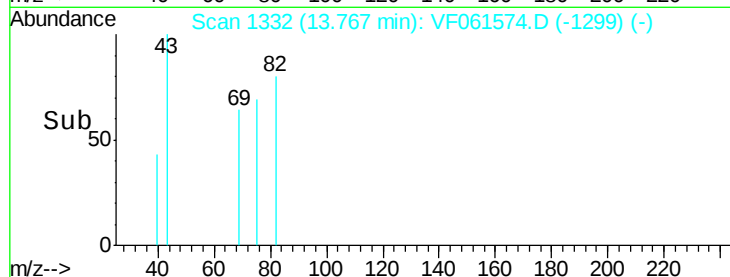
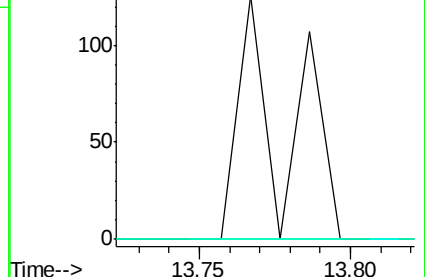
157 0.0 61.4 184.1#



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



#95

Naphthalene

Concen: 30.014 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061574.D

Acq: 8 Feb 2019 23:04

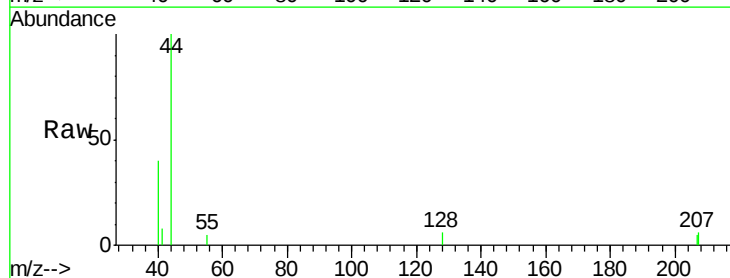
Tgt Ion: 128 Resp: 86

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

129 0.0 8.4 12.6#



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

