

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012119\
 Data File : VF061472.D
 Acq On : 21 Jan 2019 14:31
 Operator : VA/AP
 Sample : K1009-01RE
 Misc : 6.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-011819-ARE

Quant Time: Jan 22 06:29:29 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	4.88	168	5009	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.60	114	4737	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	2915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	645	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	622	10.06	ug/l	0.03
Spiked Amount	50.000		Recovery	=	20.12%	
35) Dibromofluoromethane	4.11	113	1025	27.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.84%	
50) Toluene-d8	7.56	98	4259	41.59	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.18%	
62) 4-Bromofluorobenzene	11.41	95	940	19.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.28%	

Target Compounds						Qvalue
3) Chloromethane	1.09	50	79	1.095	ug/l #	44
4) Vinyl Chloride	1.18	62	123	1.916	ug/l #	43
5) Bromomethane	1.32	94	603	14.405	ug/l #	2
6) Chloroethane	1.38	64	62	2.180	ug/l #	1
8) Diethyl Ether	1.58	74	76	4.753	ug/l	87
11) Tert butyl alcohol	2.58	59	72	27.505	ug/l #	64
12) 1,1-Dichloroethene	1.82	96	185	4.153	ug/l #	1
13) Acrolein	2.06	56	114	58.807	ug/l	99
14) Allyl chloride	2.10	41	632	Below Cal	#	27
15) Acrylonitrile	2.93	53	75	11.185	ug/l #	26
16) Acetone	2.24	43	95	7.657	ug/l #	61
18) Methyl Acetate	2.36	43	1226	49.830	ug/l #	61
19) Methyl tert-butyl Ether	2.41	73	194	1.943	ug/l #	1
20) Methylene Chloride	2.18	84	392	7.826	ug/l #	40
21) trans-1,2-Dichloroethene	2.26	96	120	2.448	ug/l #	1
22) Diisopropyl ether	2.78	45	486	3.066	ug/l #	1
23) Vinyl Acetate	3.22	43	931	16.374	ug/l #	78
24) 1,1-Dichloroethane	2.88	63	143	1.437	ug/l #	85
25) 2-Butanone	4.31	43	244	11.827	ug/l #	57
26) 2,2-Dichloropropane	3.56	77	65	1.063	ug/l #	61
29) Tetrahydrofuran	4.10	42	71	7.992	ug/l #	38
37) Ethyl Acetate	4.09	43	240	10.932	ug/l #	5
41) Methacrylonitrile	4.79	41	105	8.988	ug/l #	29
43) Isopropyl Acetate	6.90	43	189	6.859	ug/l #	51
46) Dibromomethane	6.09	93	69	3.235	ug/l #	6
47) Bromodichloromethane	6.30	83	60	1.137	ug/l #	24
48) Methyl methacrylate	6.76	41	144	7.783	ug/l #	19
51) 4-Methyl-2-Pentanone	8.22	43	276	13.625	ug/l #	39
54) cis-1,3-Dichloropropene	7.24	75	70	1.336	ug/l #	28
58) 2-Chloroethyl Vinyl ether	7.36	63	62	47.306	ug/l #	47
59) 2-Hexanone	9.52	43	177	12.530	ug/l #	26
74) N-amyl acetate	11.37	43	257	20.718	ug/l #	47
78) n-propylbenzene	11.71	91	62	1.086	ug/l #	54
79) 2-Chlorotoluene	11.71	91	62	1.703	ug/l #	45

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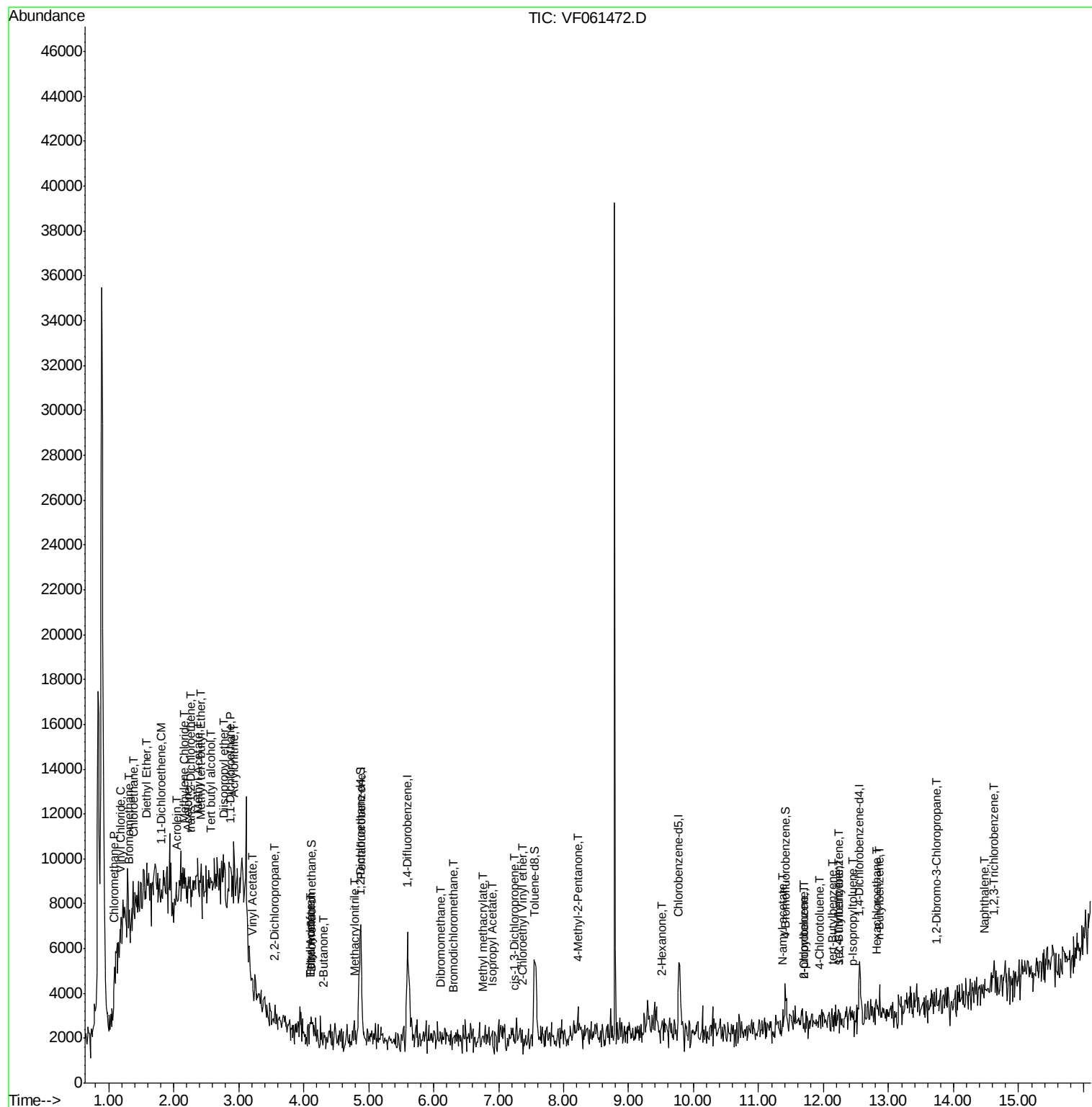
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 4-Chlorotoluene	11.93	91	75	2.042	ug/l #	43
83) tert-Butylbenzene	12.13	119	72	1.643	ug/l #	28
84) 1,2,4-Trimethylbenzene	12.23	105	79	1.812	ug/l #	28
85) sec-Butylbenzene	12.23	105	79	1.328	ug/l #	56
86) p-Isopropyltoluene	12.45	119	65	1.331	ug/l #	50
89) n-Butylbenzene	12.85	91	83	1.648	ug/l #	27
90) Hexachloroethane	12.82	117	62	5.384	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.73	75	94	56.709	ug/l #	1
95) Naphthalene	14.47	128	152	5.510	ug/l #	71
96) 1,2,3-Trichlorobenzene	14.62	180	60	4.464	ug/l #	13

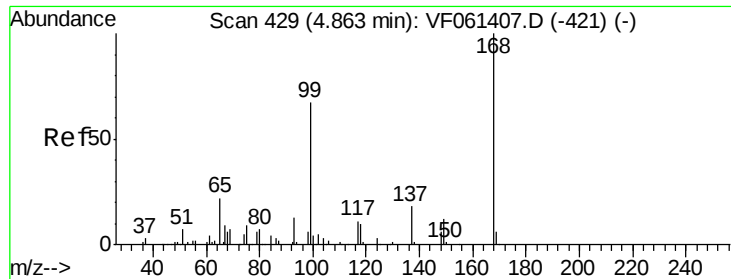
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

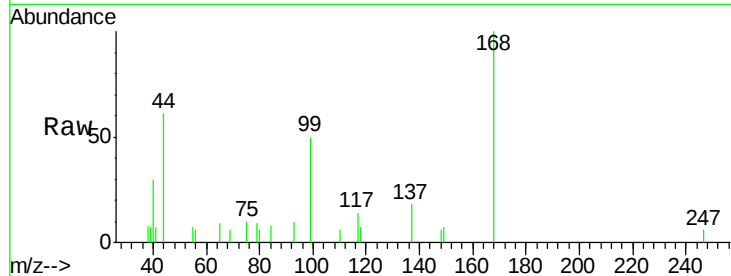
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-ARE

Tot Ion:168 Resp: 5009

Ion Ratio Lower Upper

168 100

99 49.9 53.5 80.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

1500

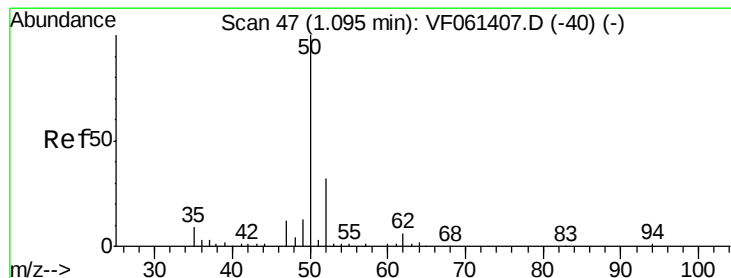
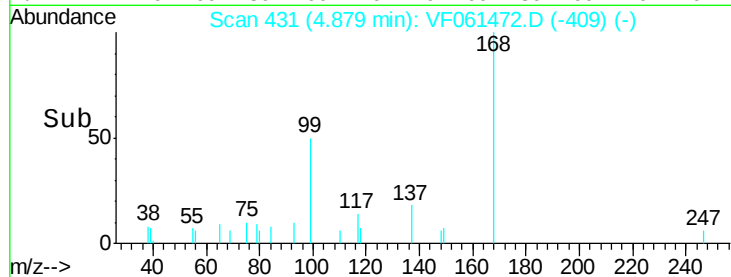
1000

500

0

Time-->

4.80 4.90 5.00



#3

Chloromethane

Concen: 1.095 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061472.D

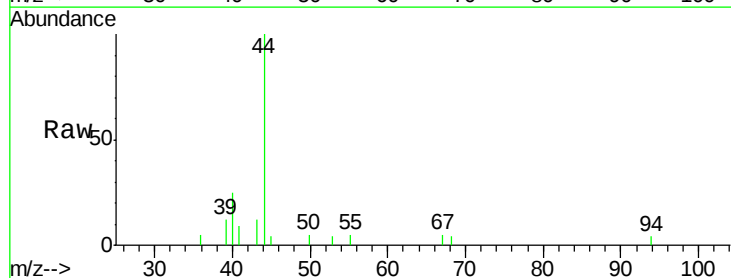
Acq: 21 Jan 2019 14:31

Tgt Ion: 50 Resp: 79

Ion Ratio Lower Upper

50 100

52 0.0 24.6 36.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

150

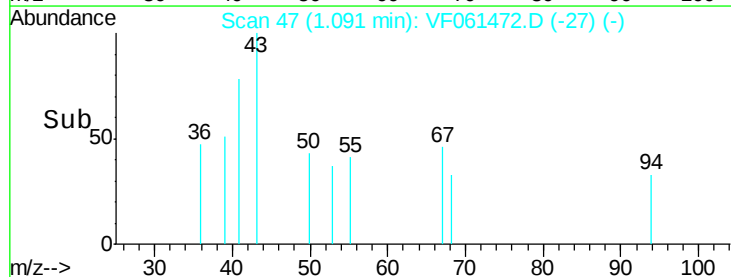
100

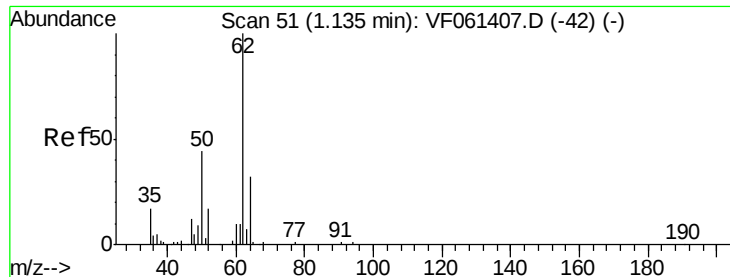
50

0

Time-->

1.06 1.08 1.10 1.12





#4

Vinyl Chloride

Concen: 1.916 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

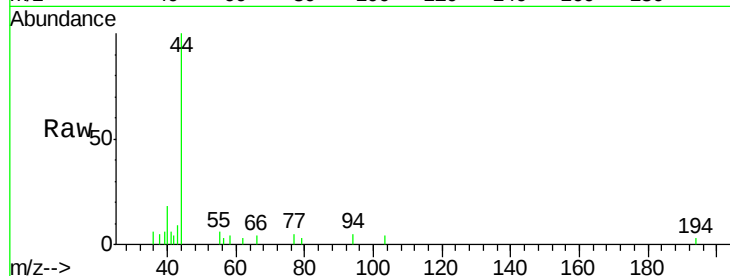
CL-01-011819-ARE

Tot Ion: 62 Resp: 123

Ion Ratio Lower Upper

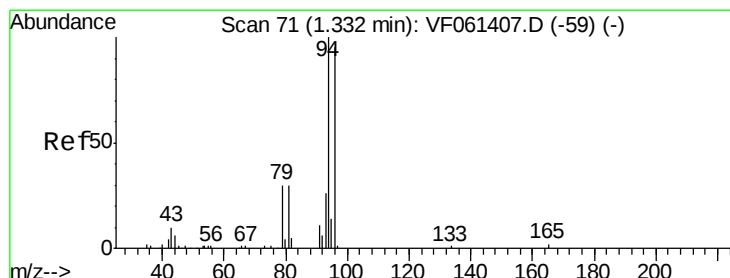
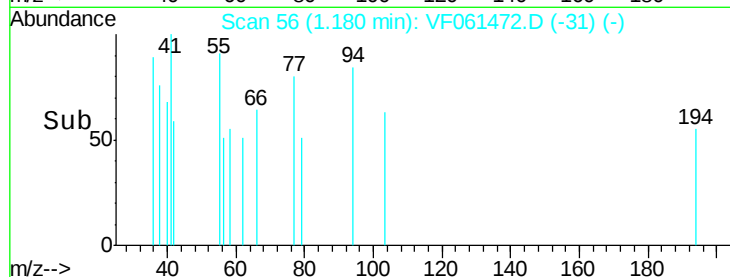
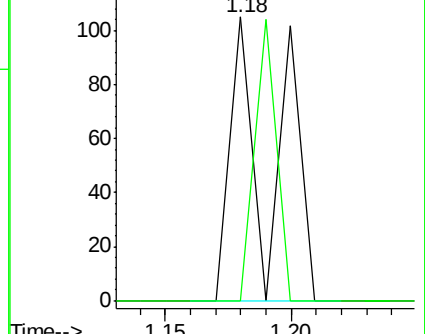
62 100

64 0.0 25.6 38.4#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



#5

Bromomethane

Concen: 14.405 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061472.D

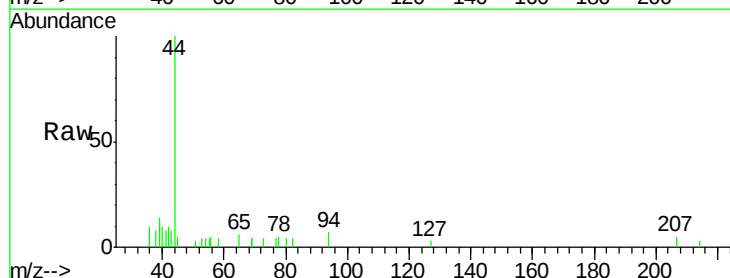
Acq: 21 Jan 2019 14:31

Tgt Ion: 94 Resp: 603

Ion Ratio Lower Upper

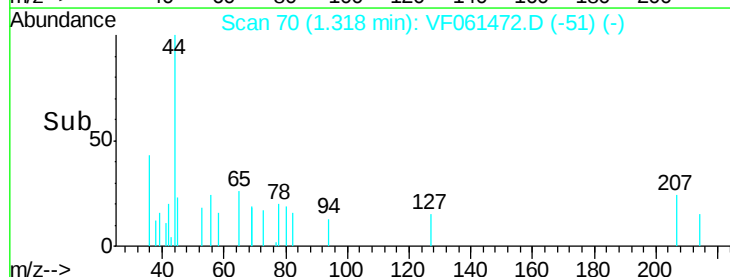
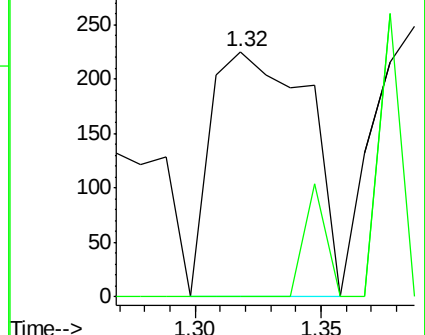
94 100

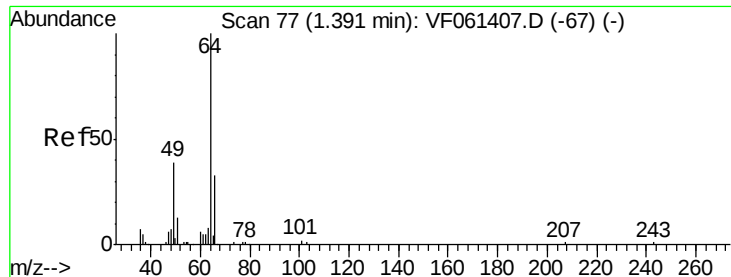
96 0.0 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 2.180 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

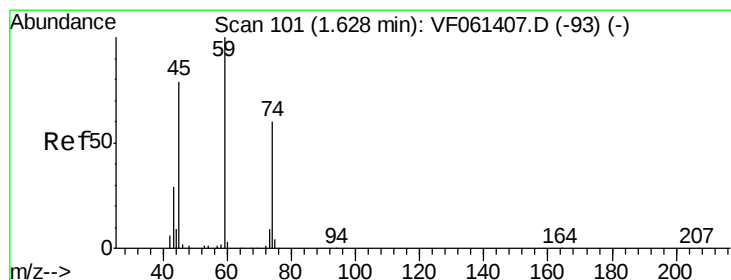
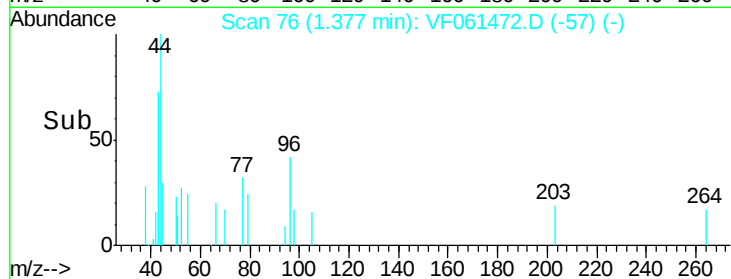
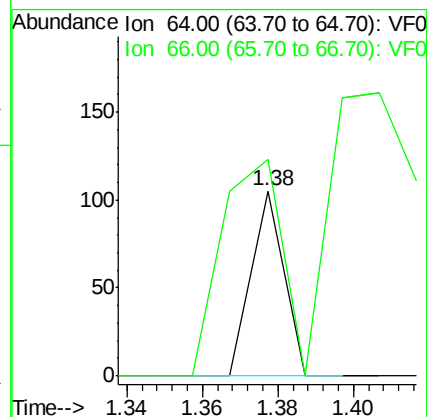
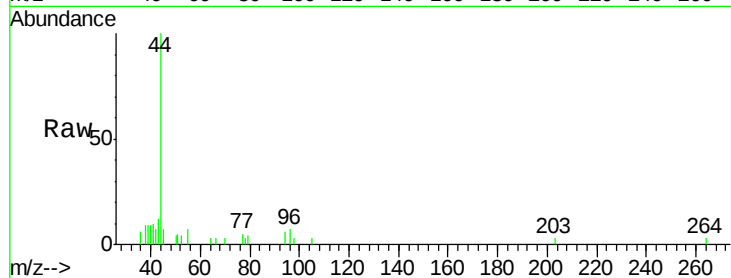
CL-01-011819-ARE

Tot Ion: 64 Resp: 62

Ion Ratio Lower Upper

64 100

66 117.1 26.6 40.0#



#8

Diethyl Ether

Concen: 4.753 ug/l

RT: 1.58 min Scan# 97

Delta R.T. -0.04 min

Lab File: VF061472.D

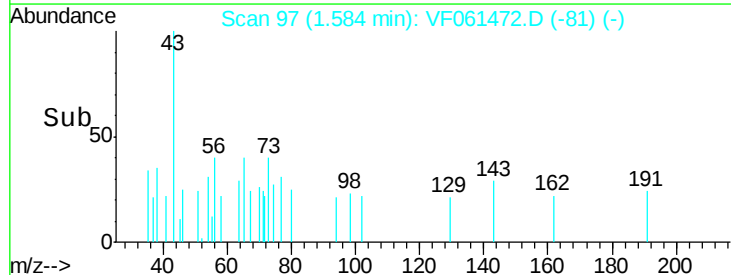
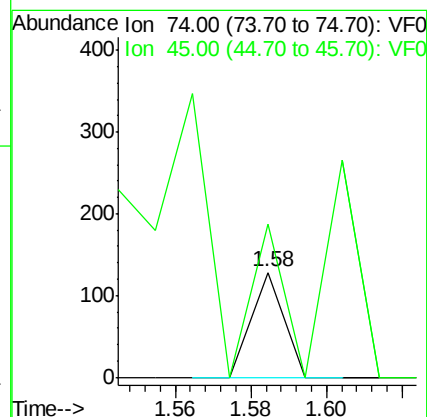
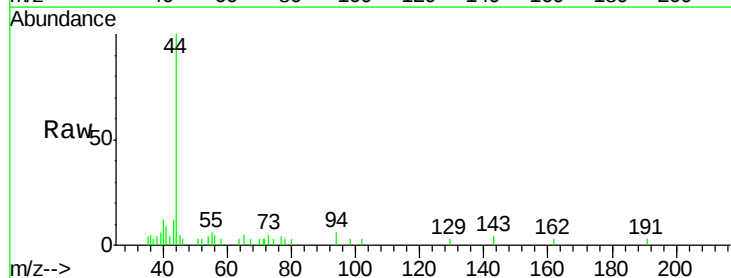
Acq: 21 Jan 2019 14:31

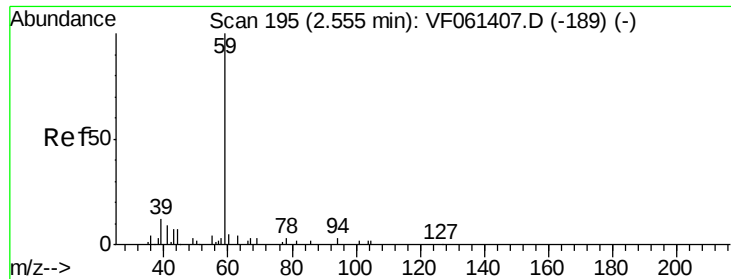
Tgt Ion: 74 Resp: 76

Ion Ratio Lower Upper

74 100

45 146.9 65.8 197.5



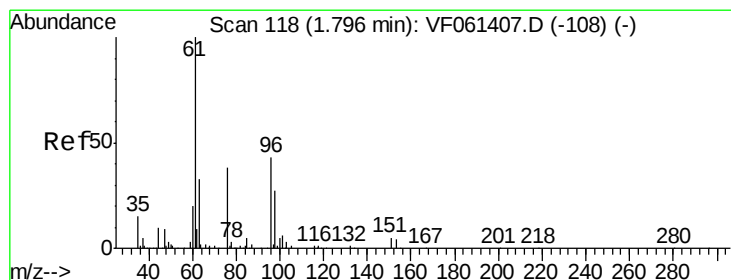
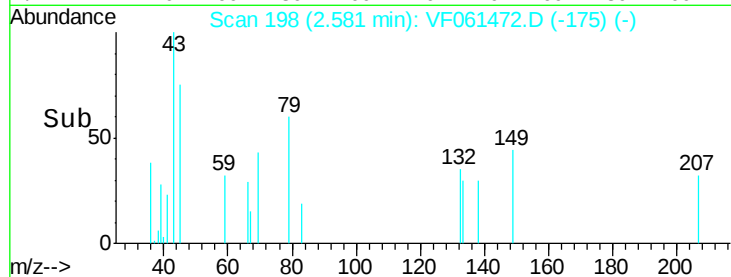
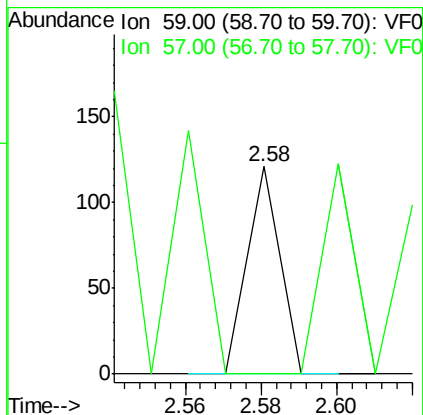
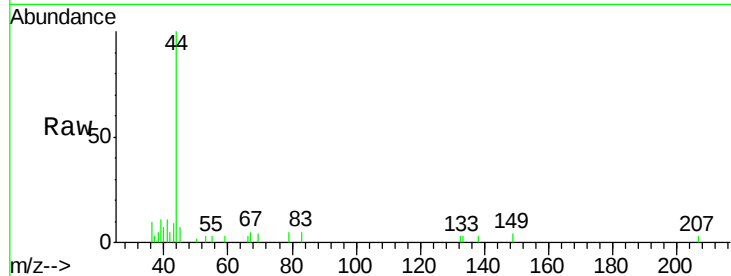


#11

Tert butyl alcohol
 Concen: 27.505 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. 0.03 min
 Lab File: VF061472.D
 Acq: 21 Jan 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-011819-ARE

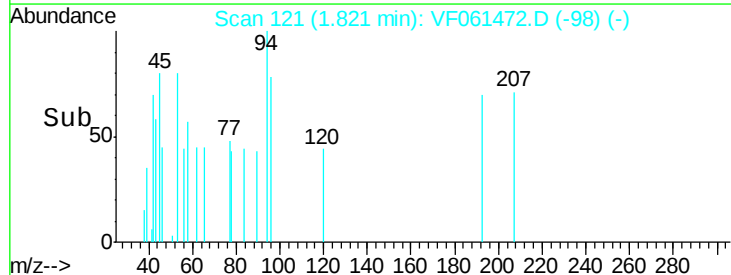
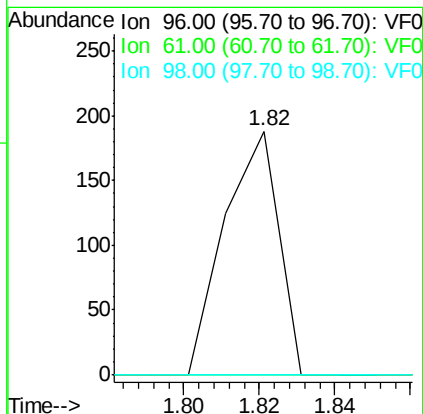
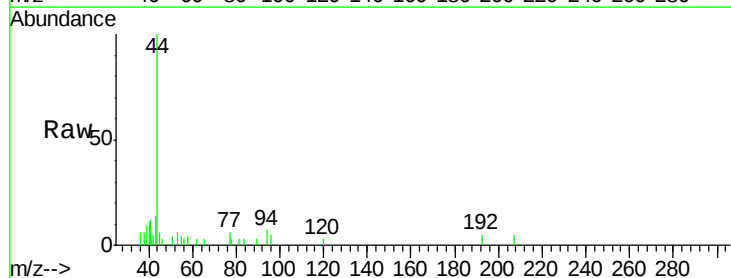
Tot Ion: 59 Resp: 72
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.9 17.9#

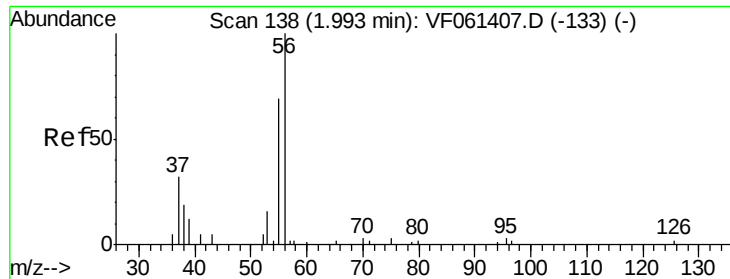


#12

1,1-Dichloroethene
 Concen: 4.153 ug/l
 RT: 1.82 min Scan# 121
 Delta R.T. 0.03 min
 Lab File: VF061472.D
 Acq: 21 Jan 2019 14:31

Tgt Ion: 96 Resp: 185
 Ion Ratio Lower Upper
 96 100
 61 0.0 186.9 280.3#
 98 0.0 53.0 79.4#





#13

Acrolein

Concen: 58.807 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.07 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

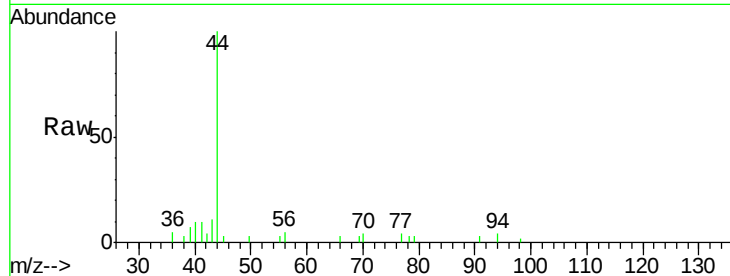
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-ARE

Tot Ion: 56 Resp: 114

Ion Ratio Lower Upper

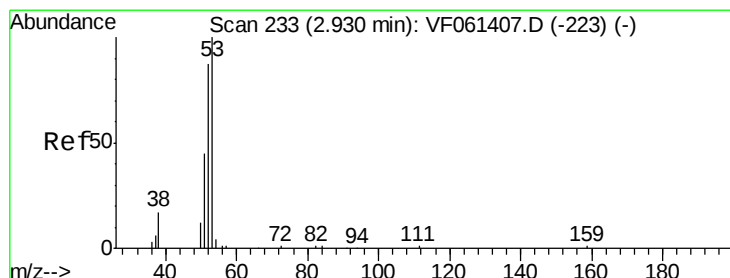
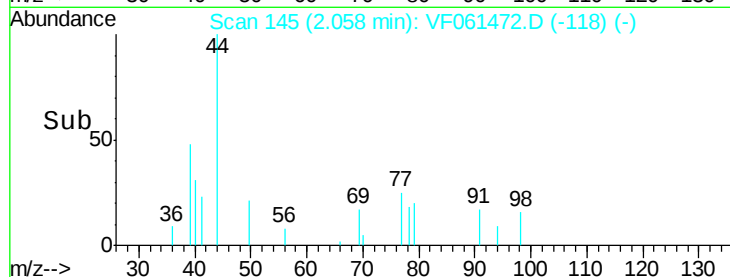
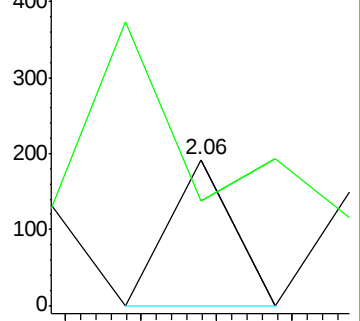
56 100

55 71.4 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 11.185 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

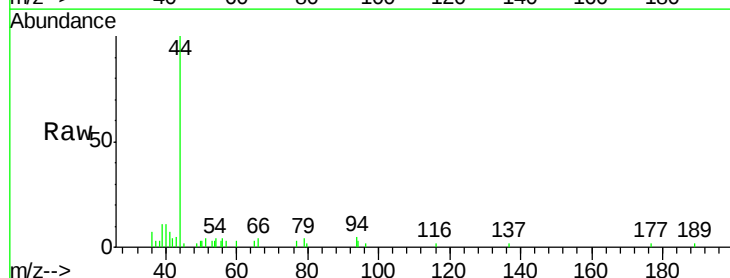
Tgt Ion: 53 Resp: 75

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

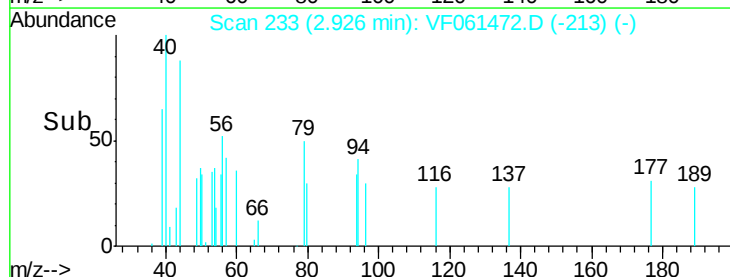
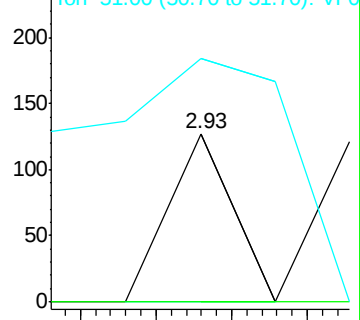
51 70.0 36.8 55.2#

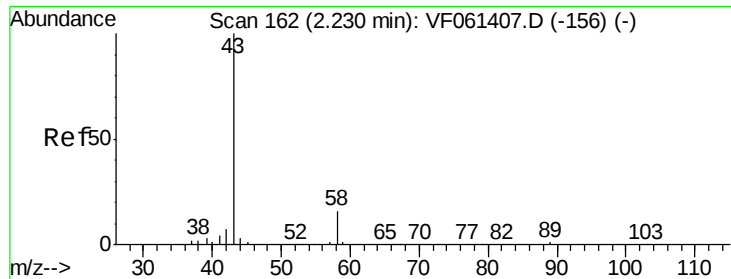


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 7.657 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

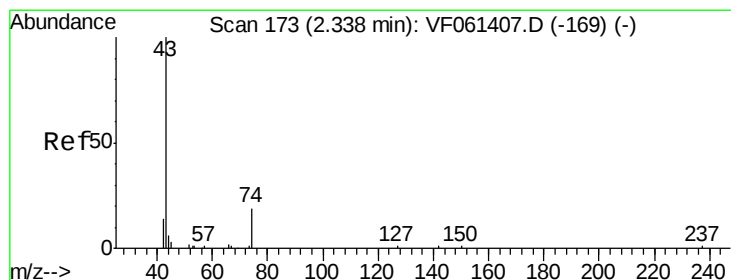
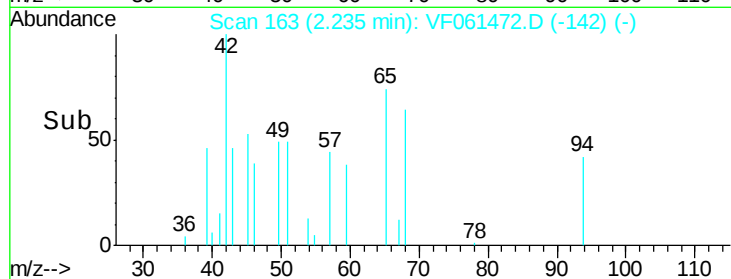
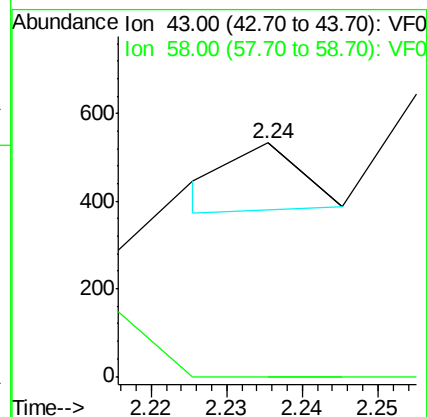
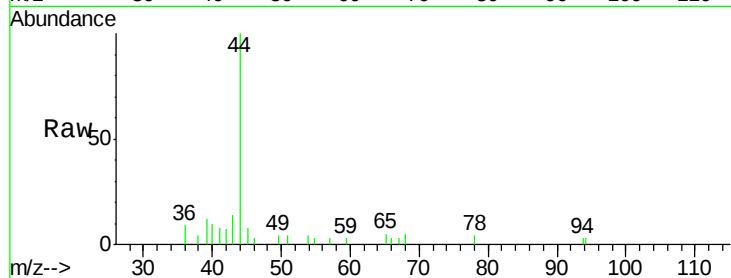
CL-01-011819-ARE

Tot Ion: 43 Resp: 95

Ion Ratio Lower Upper

43 100

58 0.0 13.3 19.9#



#18

Methyl Acetate

Concen: 49.830 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF061472.D

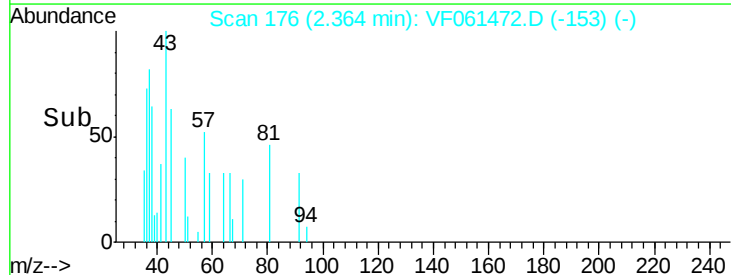
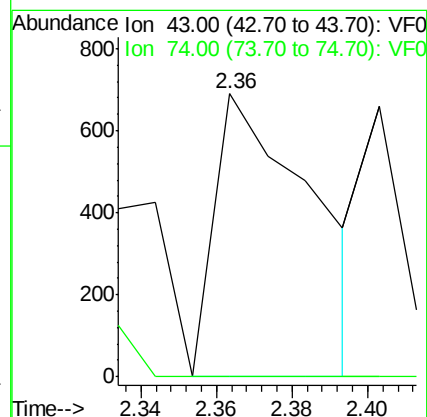
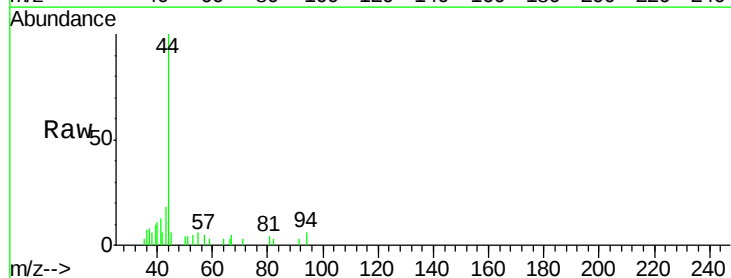
Acq: 21 Jan 2019 14:31

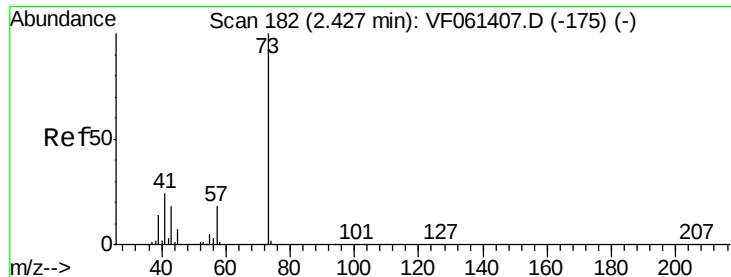
Tgt Ion: 43 Resp: 1226

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#



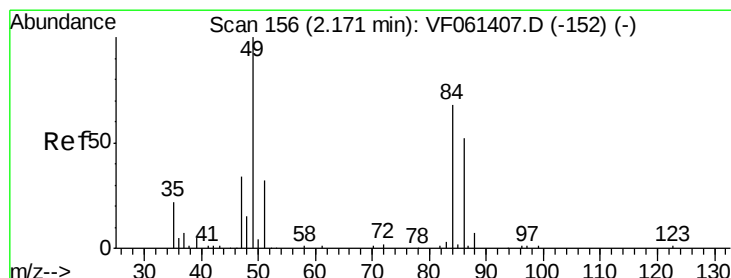
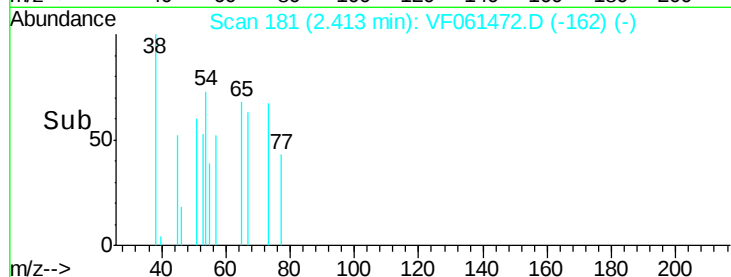
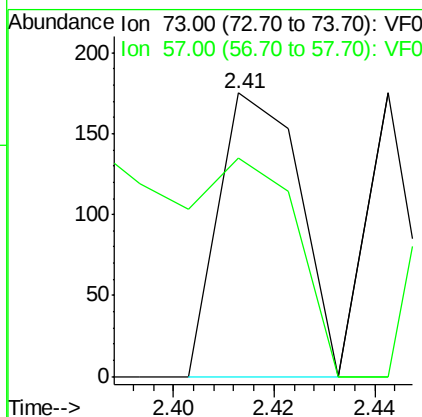
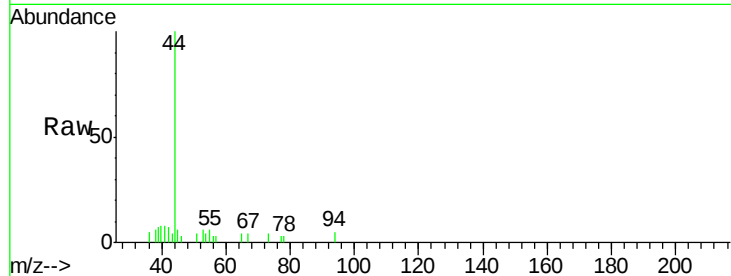


#19

Methyl tert-butyl Ether
 Concen: 1.943 ug/l
 RT: 2.41 min Scan# 181
 Delta R.T. -0.01 min
 Lab File: VF061472.D
 Acq: 21 Jan 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-011819-ARE

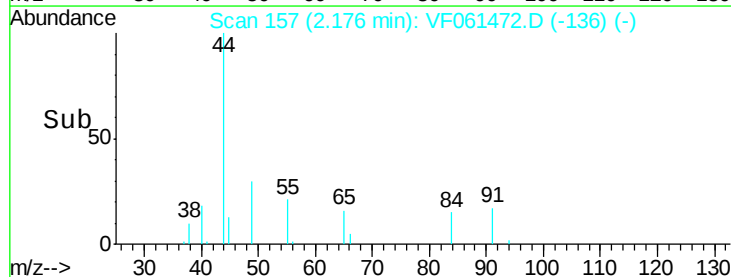
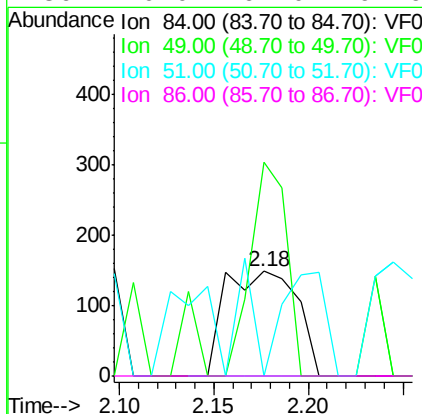
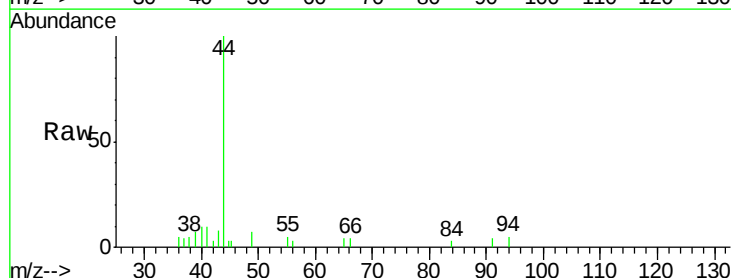
Tot Ion: 73 Resp: 194
 Ion Ratio Lower Upper
 73 100
 57 77.1 14.8 22.2#

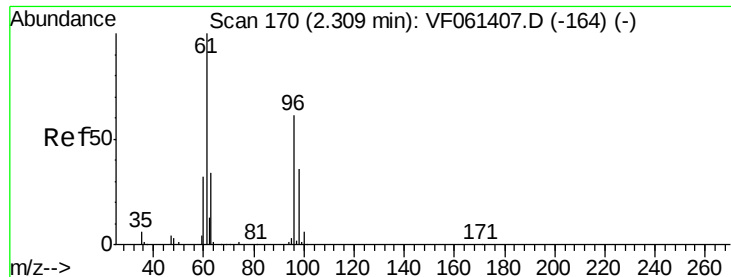


#20

Methylene Chloride
 Concen: 7.826 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. 0.01 min
 Lab File: VF061472.D
 Acq: 21 Jan 2019 14:31

Tgt Ion: 84 Resp: 392
 Ion Ratio Lower Upper
 84 100
 49 203.4 120.0 180.0#
 51 0.0 38.6 58.0#
 86 0.0 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 2.448 ug/l

RT: 2.26 min Scan# 165

Delta R.T. -0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

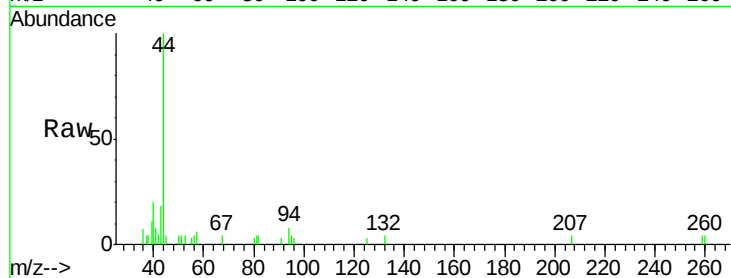
Tot Ion: 96 Resp: 120

Ion Ratio Lower Upper

96 100

61 0.0 131.8 197.8#

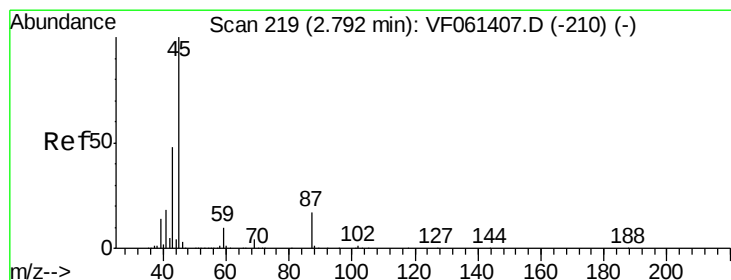
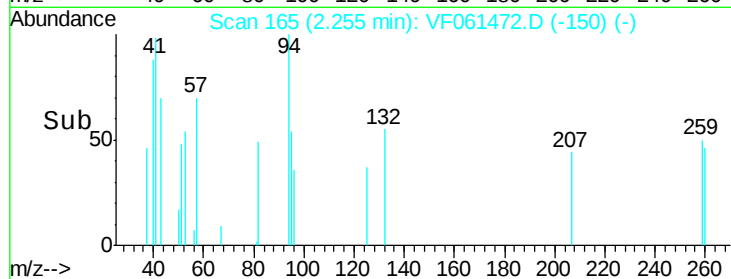
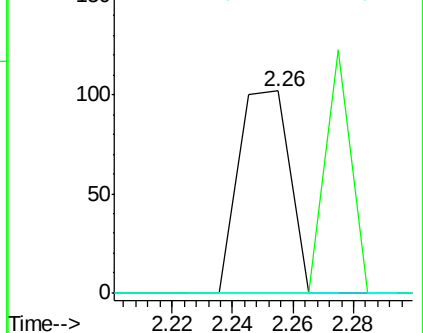
98 0.0 47.4 71.0#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 3.066 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Tgt Ion: 45 Resp: 486

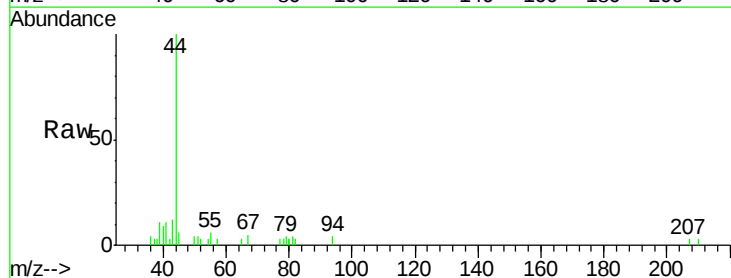
Ion Ratio Lower Upper

45 100

43 202.2 39.0 58.6#

87 0.0 13.9 20.9#

59 0.0 7.8 11.6#

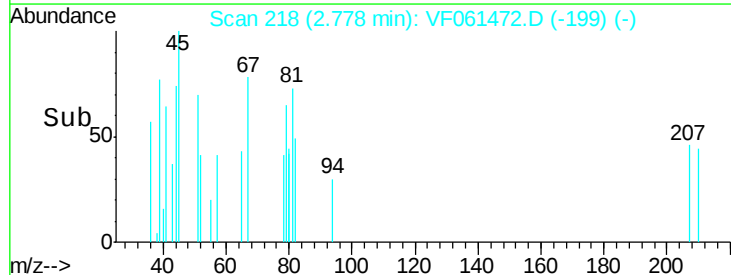
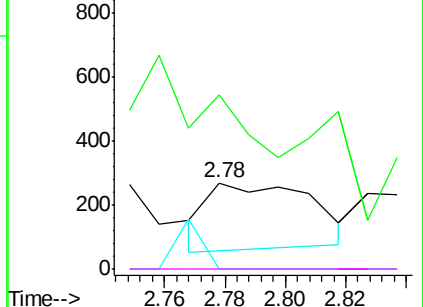


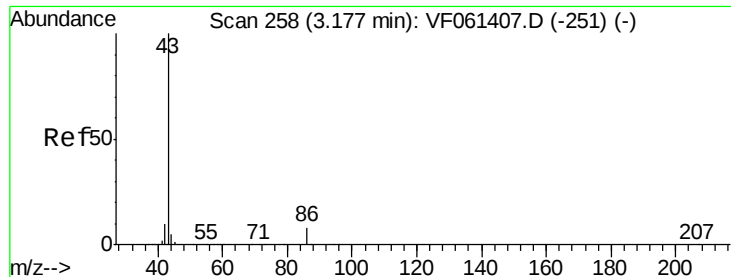
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 16.374 ug/l

RT: 3.22 min Scan# 263

Delta R.T. 0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

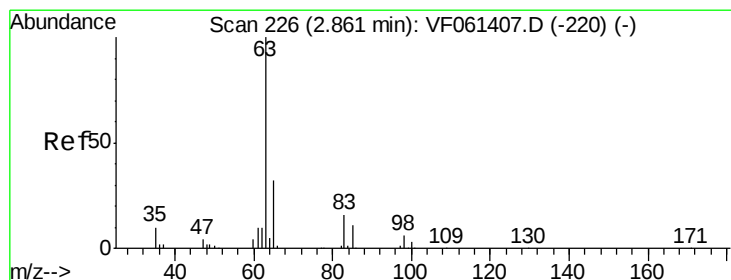
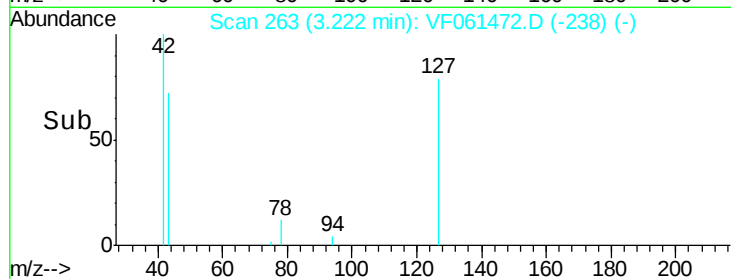
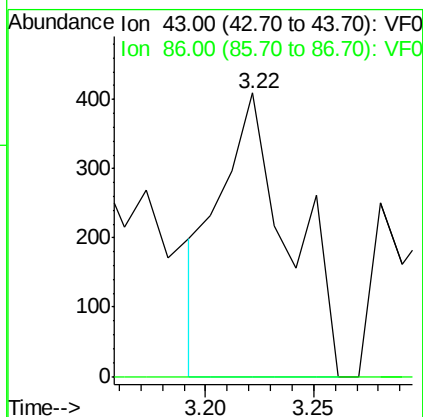
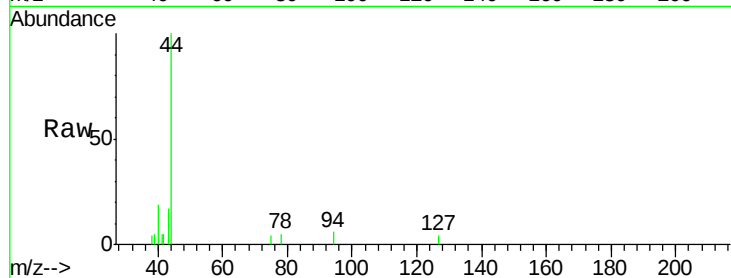
CL-01-011819-ARE

Tot Ion: 43 Resp: 931

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#24

1,1-Dichloroethane

Concen: 1.437 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

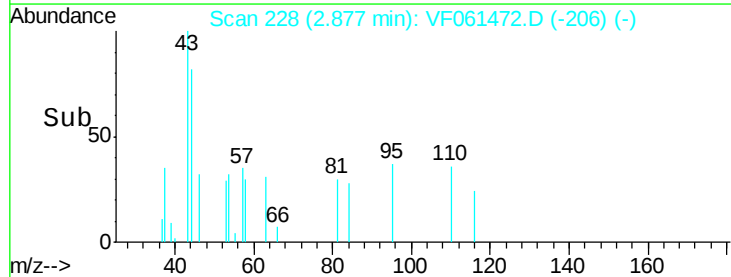
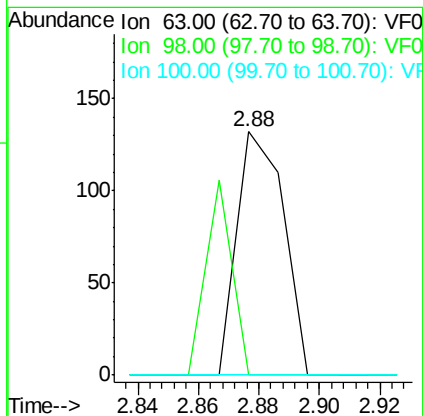
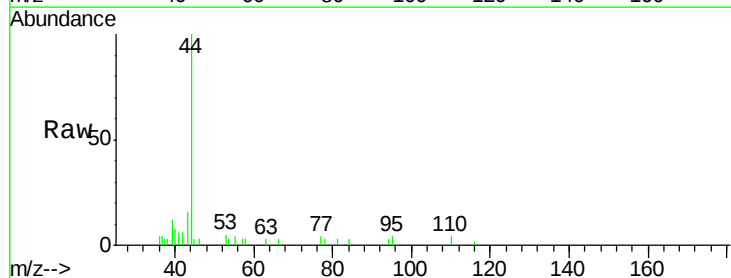
Tgt Ion: 63 Resp: 143

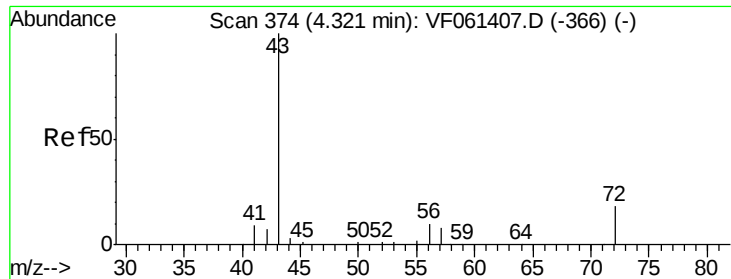
Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

100 0.0 1.6 4.8#





#25

2-Butanone

Concen: 11.827 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

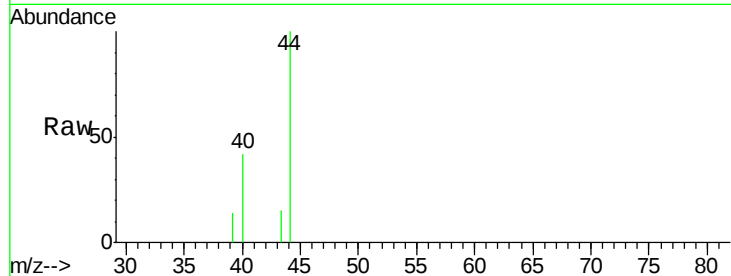
CL-01-011819-ARE

Tot Ion: 43 Resp: 244

Ion Ratio Lower Upper

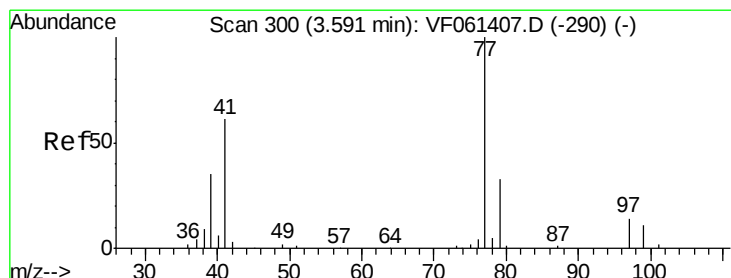
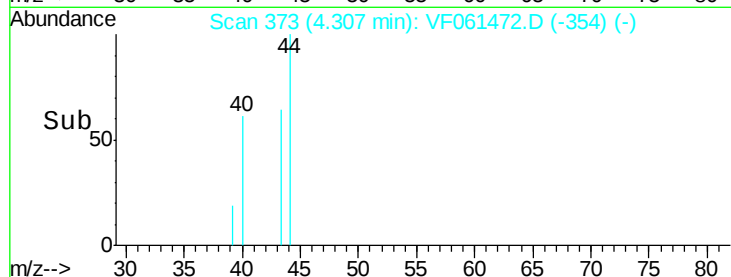
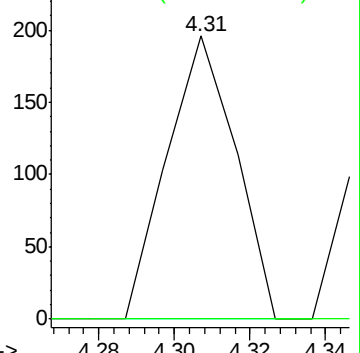
43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 1.063 ug/l

RT: 3.56 min Scan# 297

Delta R.T. -0.03 min

Lab File: VF061472.D

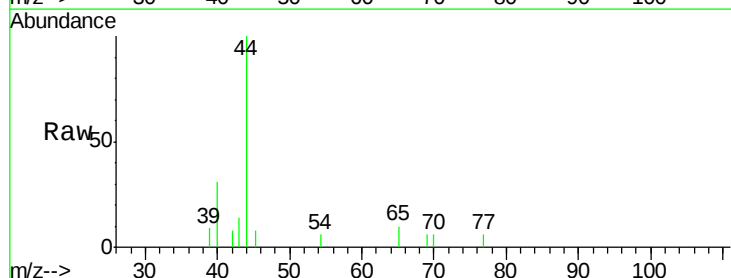
Acq: 21 Jan 2019 14:31

Tgt Ion: 77 Resp: 65

Ion Ratio Lower Upper

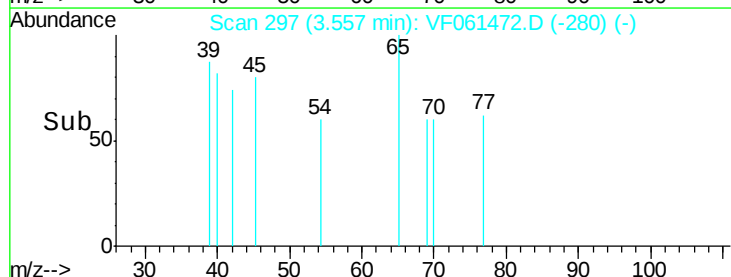
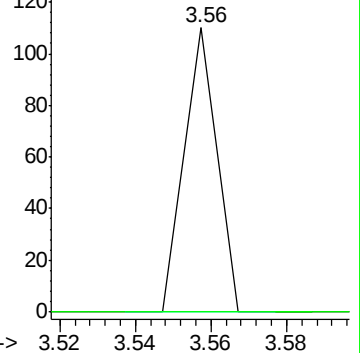
77 100

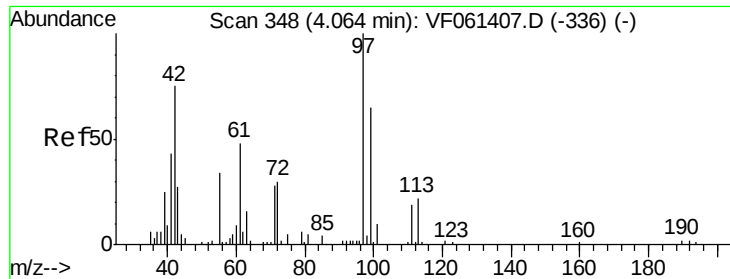
97 0.0 8.5 25.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#29

Tetrahydrofuran

Concen: 7.992 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.04 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

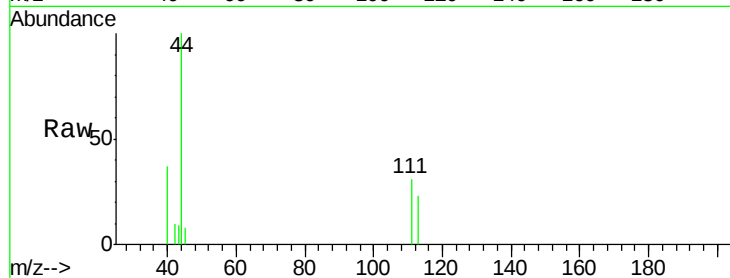
Tot Ion: 42 Resp: 71

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

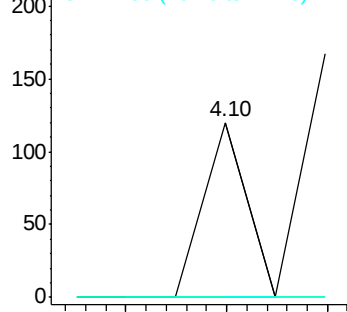
71 0.0 29.6 44.4#



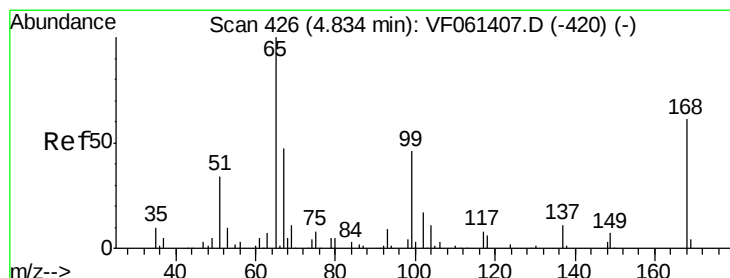
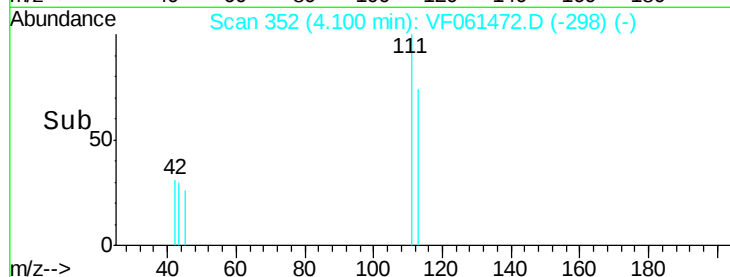
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 10.058 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.03 min

Lab File: VF061472.D

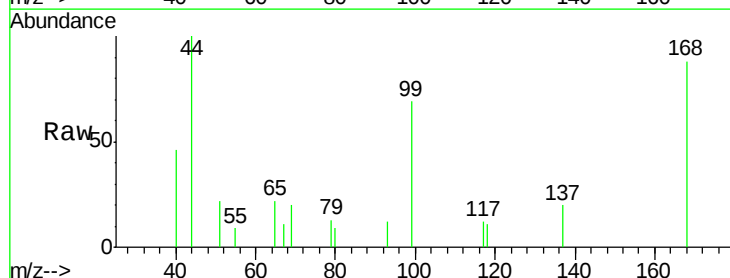
Acq: 21 Jan 2019 14:31

Tgt Ion: 65 Resp: 622

Ion Ratio Lower Upper

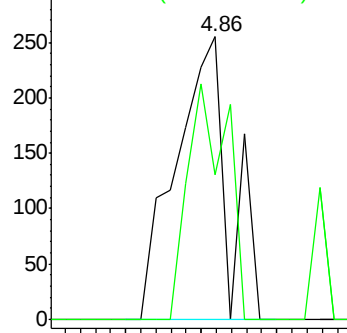
65 100

67 51.0 0.0 99.8

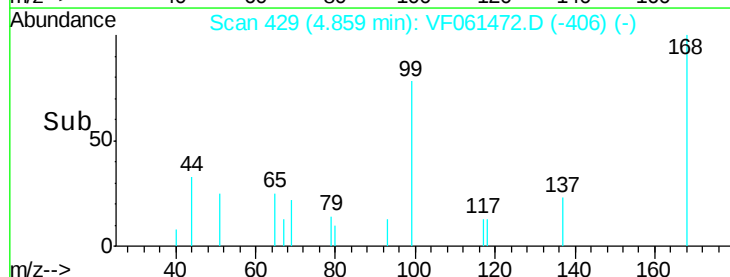


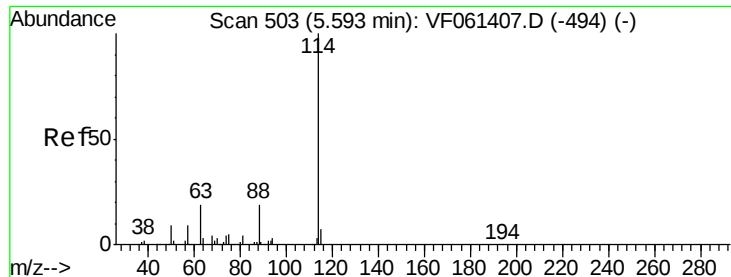
Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

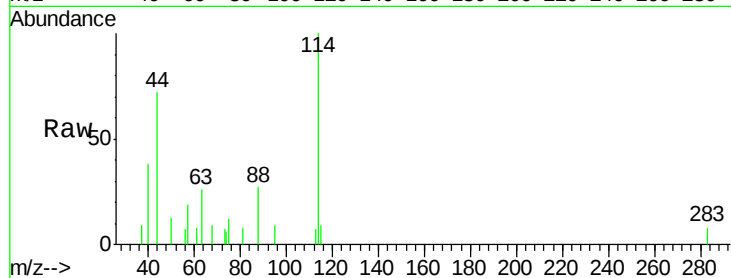
Tot Ion:114 Resp: 4737

Ion Ratio Lower Upper

114 100

63 25.9 0.0 39.0

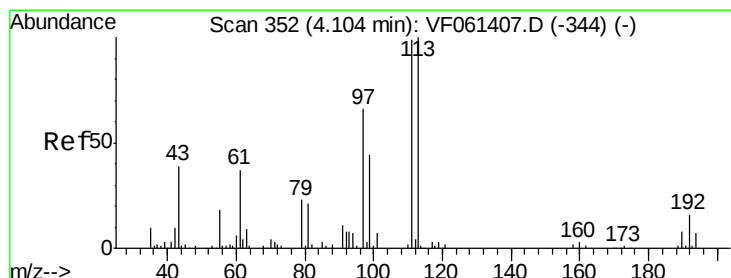
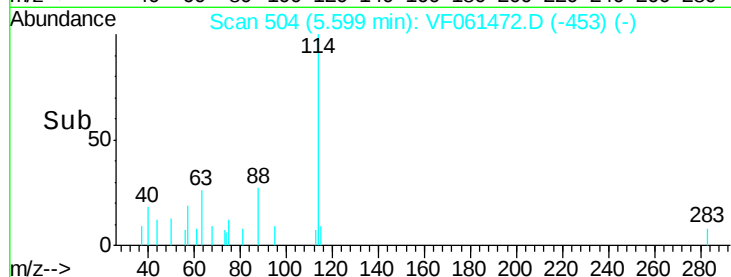
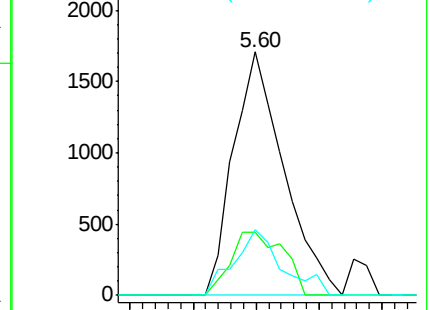
88 27.0 0.0 37.4



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: 27.422 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

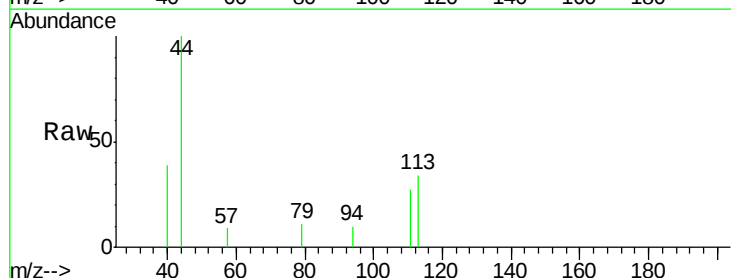
Tgt Ion:113 Resp: 1025

Ion Ratio Lower Upper

113 100

111 79.4 79.4 119.0

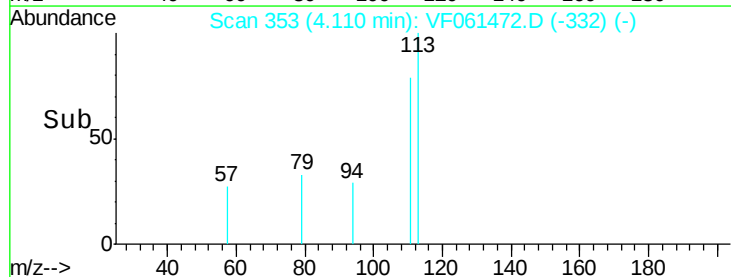
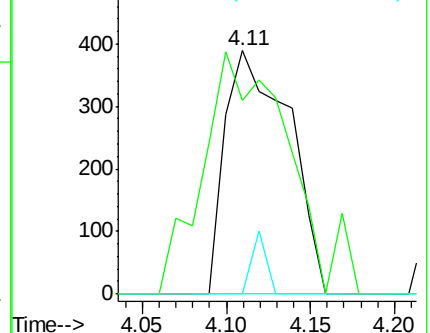
192 0.0 12.4 18.6#

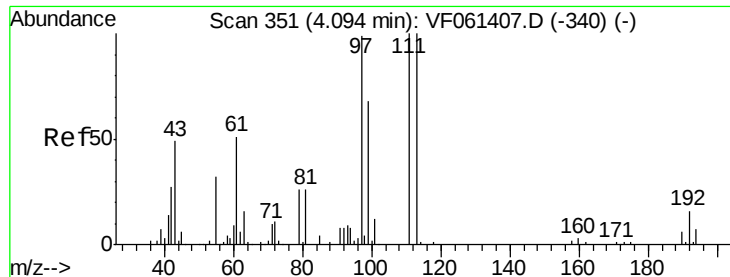


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 10.932 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

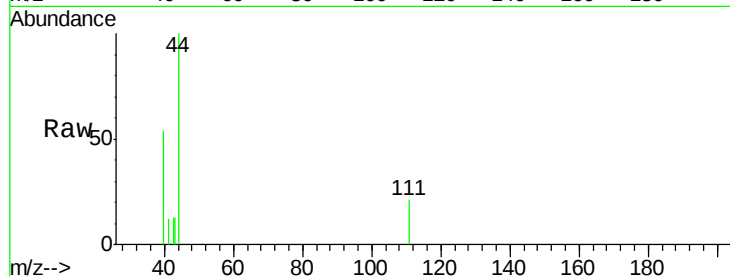
Tot Ion: 43 Resp: 240

Ion Ratio Lower Upper

43 100

61 0.0 81.7 122.5#

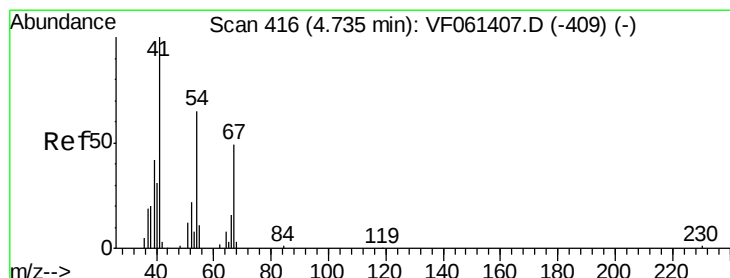
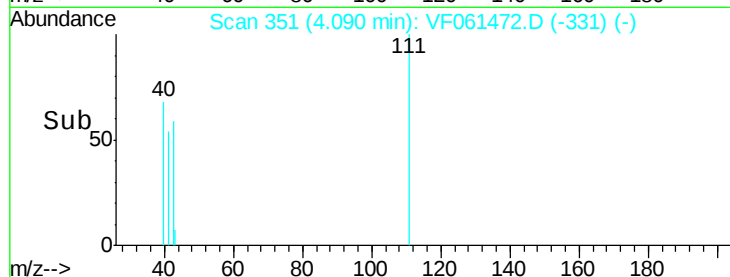
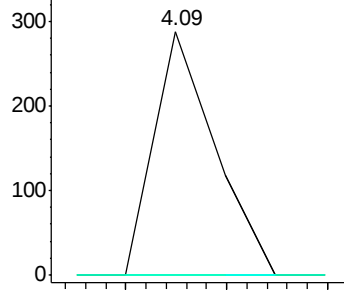
70 0.0 6.2 9.2#



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



#41

Methacrylonitrile

Concen: 8.988 ug/l

RT: 4.79 min Scan# 422

Delta R.T. 0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Tgt Ion: 41 Resp: 105

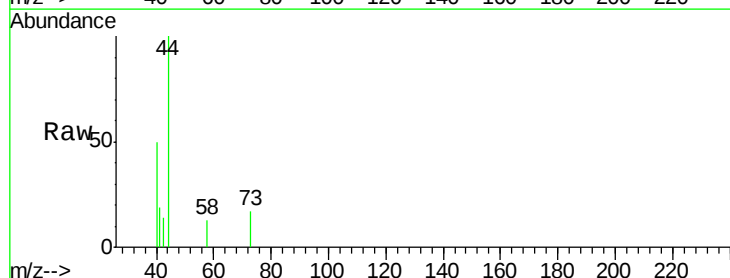
Ion Ratio Lower Upper

41 100

39 0.0 43.1 64.7#

67 0.0 38.8 58.2#

52 0.0 33.2 49.8#

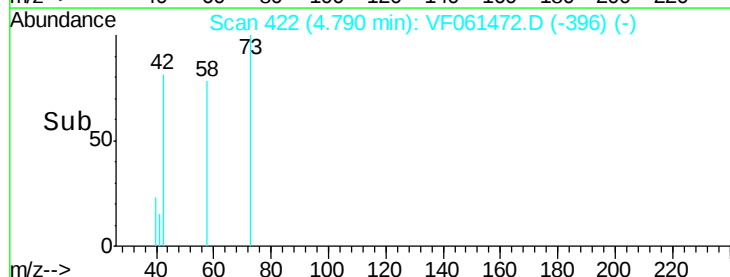
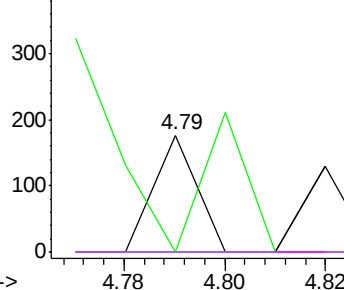


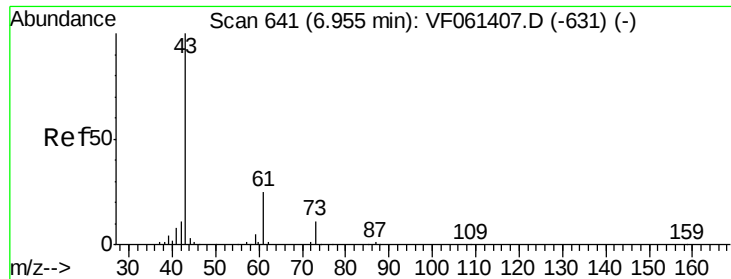
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#43

Isopropyl Acetate

Concen: 6.859 ug/l

RT: 6.90 min Scan# 636

Delta R.T. -0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

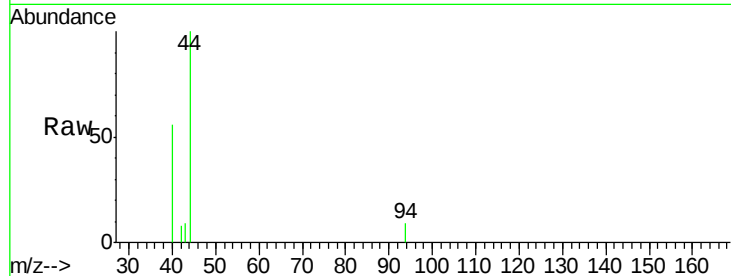
Tot Ion: 43 Resp: 189

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

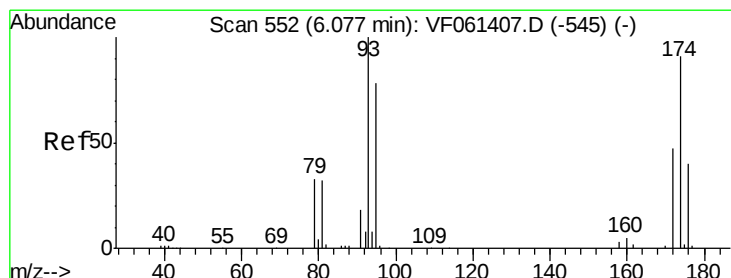
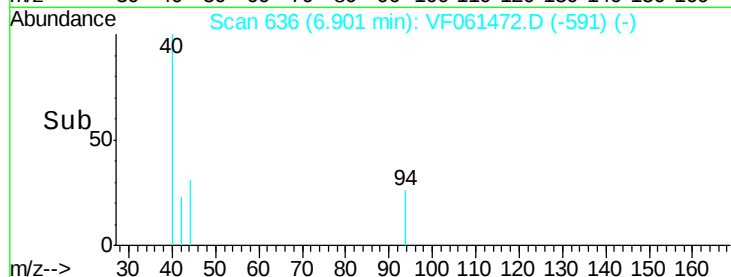
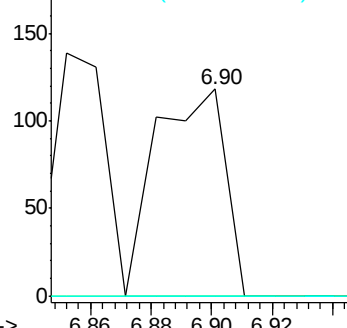
87 0.0 0.5 0.7#



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



#46

Dibromomethane

Concen: 3.235 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

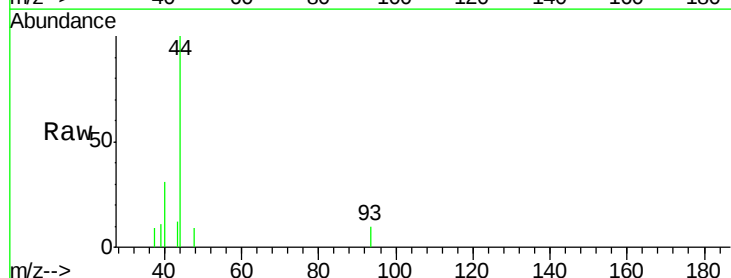
Tgt Ion: 93 Resp: 69

Ion Ratio Lower Upper

93 100

95 0.0 62.1 93.1#

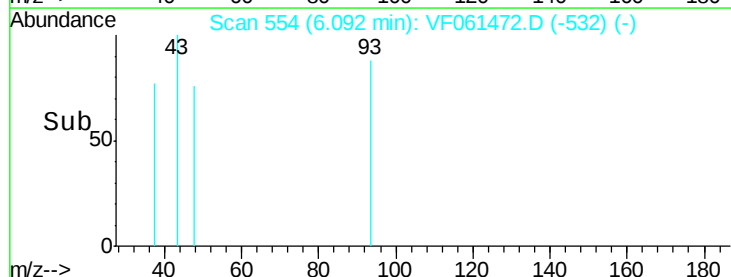
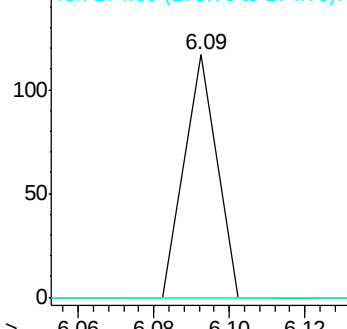
174 0.0 74.6 111.8#

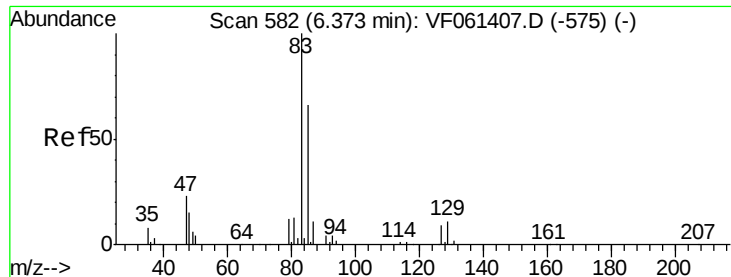


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 1.137 ug/l

RT: 6.30 min Scan# 575

Delta R.T. -0.07 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

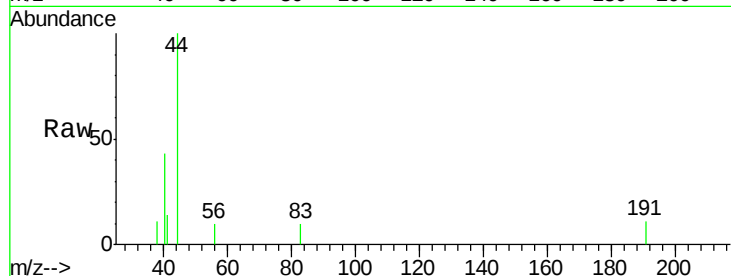
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

85 0.0 53.0 79.4#

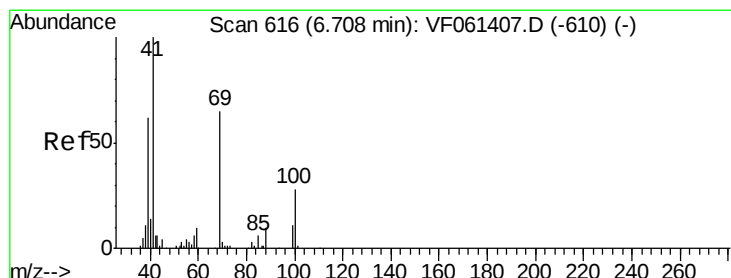
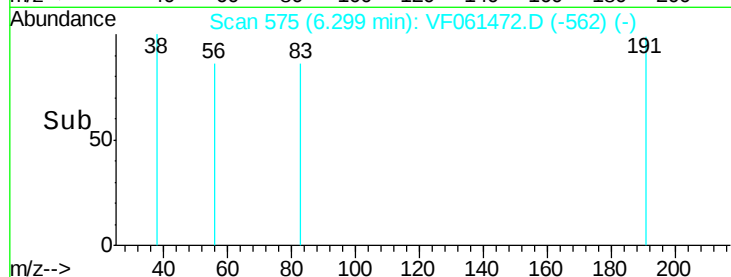
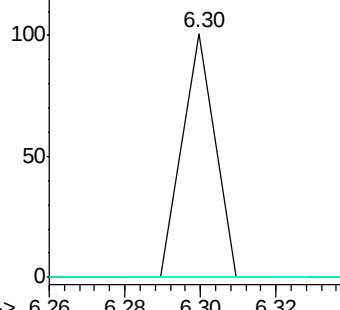
127 0.0 6.9 10.3#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 7.783 ug/l

RT: 6.76 min Scan# 622

Delta R.T. 0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

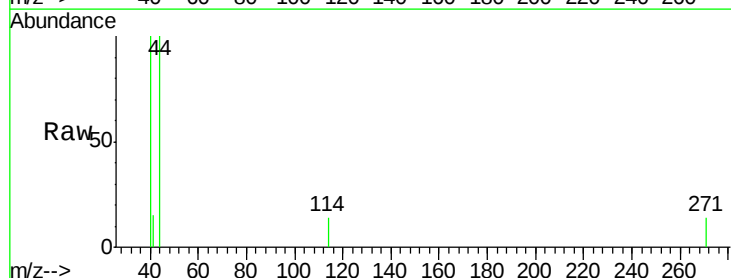
Tgt Ion: 41 Resp: 144

Ion Ratio Lower Upper

41 100

69 0.0 51.7 77.5#

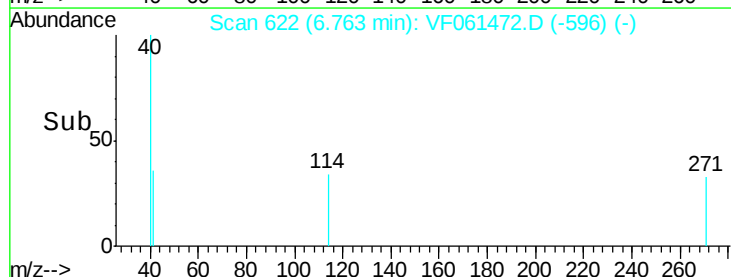
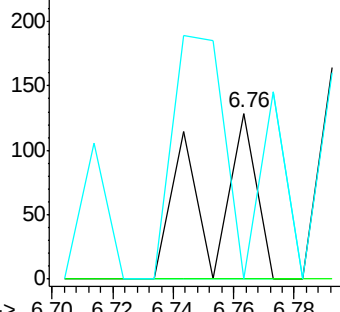
39 0.0 49.2 73.8#

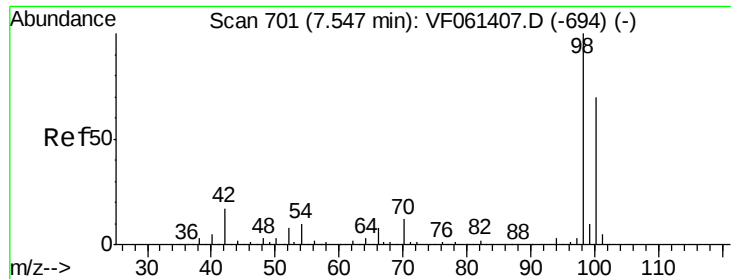


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 41.587 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

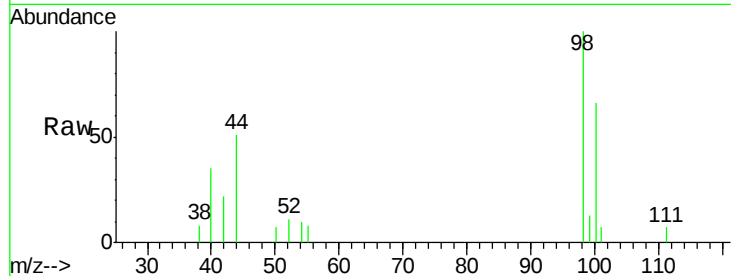
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-ARE

Tot Ion: 98 Resp: 4259

Ion Ratio Lower Upper

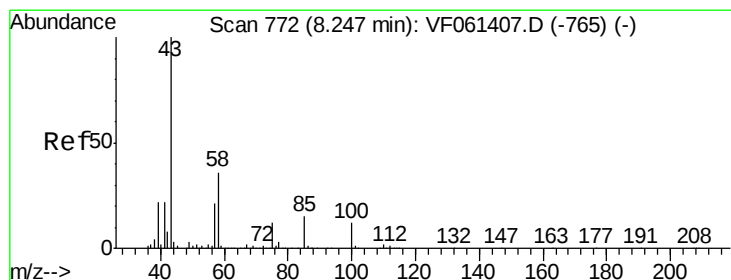
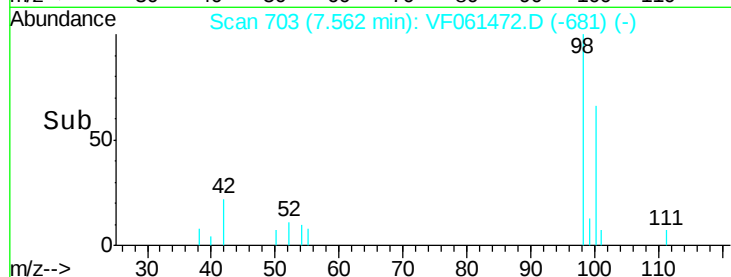
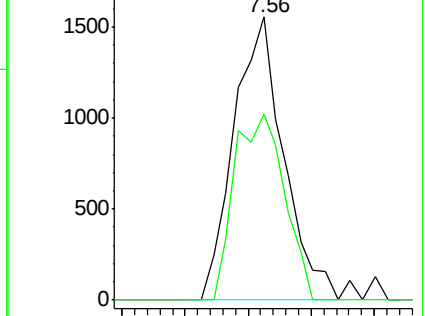
98 100

100 65.6 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 13.625 ug/l

RT: 8.22 min Scan# 770

Delta R.T. -0.02 min

Lab File: VF061472.D

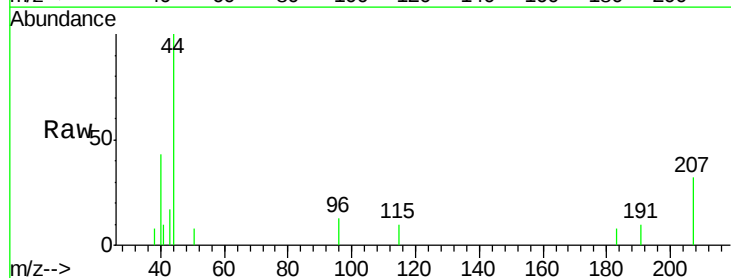
Acq: 21 Jan 2019 14:31

Tgt Ion: 43 Resp: 276

Ion Ratio Lower Upper

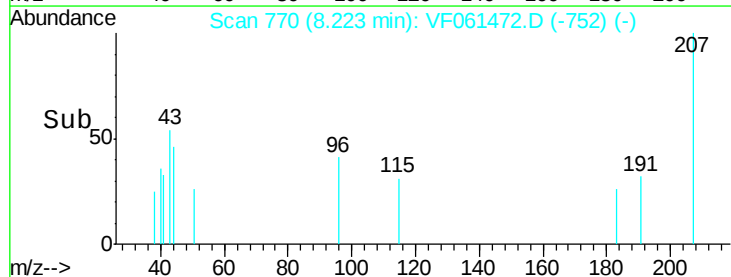
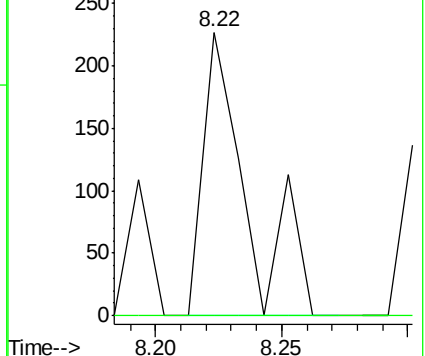
43 100

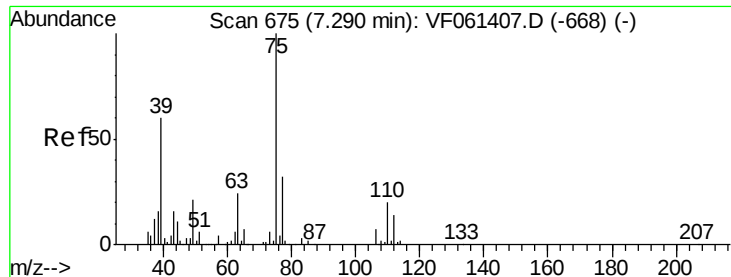
58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 1.336 ug/l

RT: 7.24 min Scan# 670

Delta R.T. -0.05 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

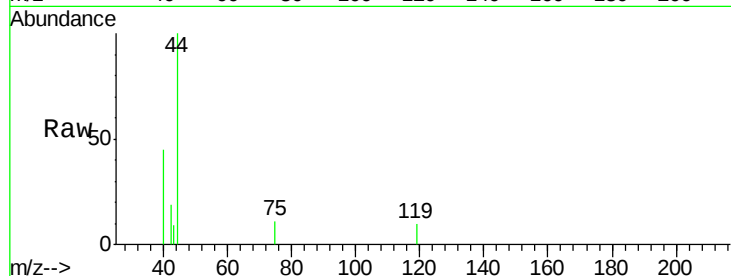
Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

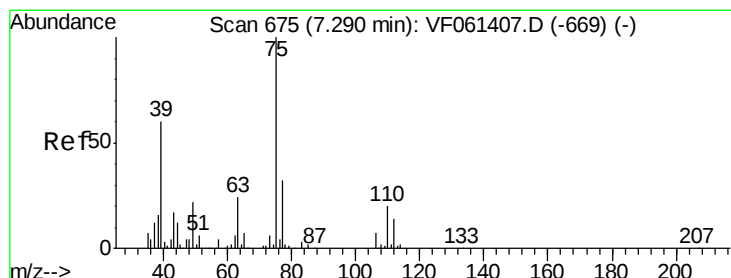
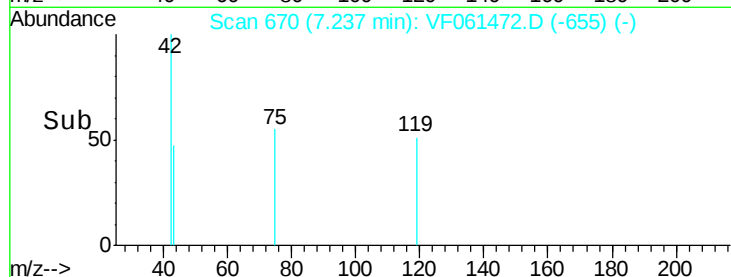
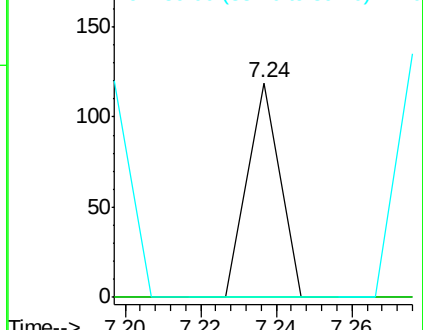
39 0.0 47.8 71.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 47.306 ug/l

RT: 7.36 min Scan# 683

Delta R.T. 0.07 min

Lab File: VF061472.D

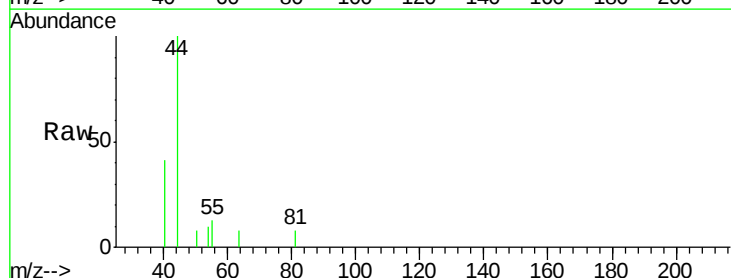
Acq: 21 Jan 2019 14:31

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

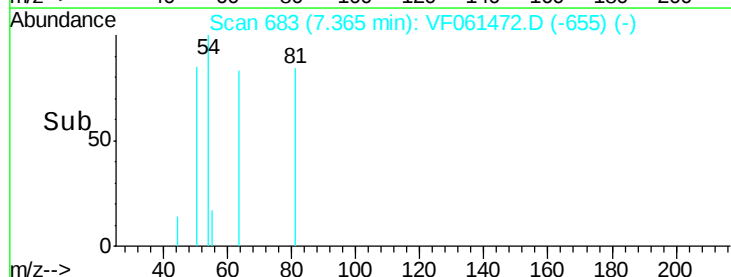
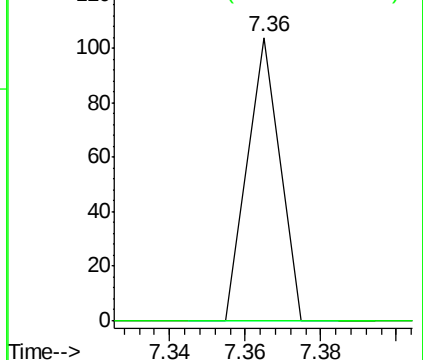
63 100

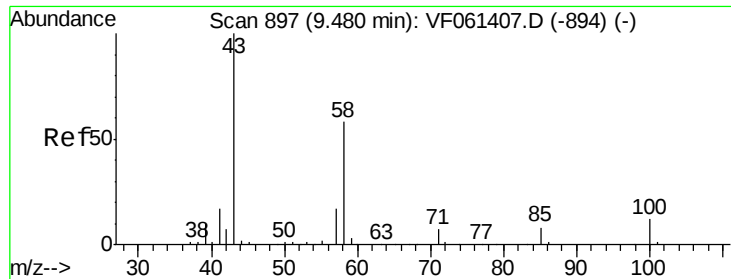
106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 12.530 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.04 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

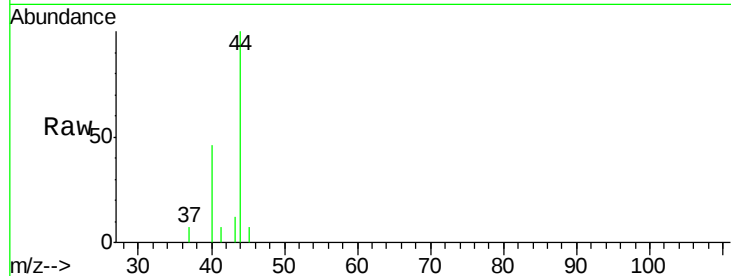
CL-01-011819-ARE

Tot Ion: 43 Resp: 177

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.52

150

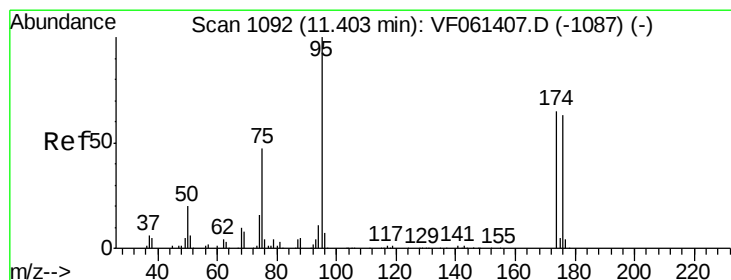
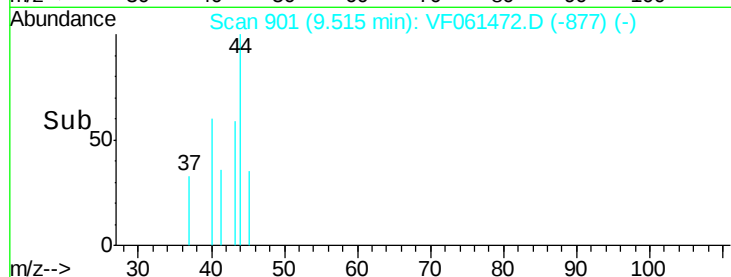
100

50

0

9.48 9.50 9.52 9.54

Time-->



#62

4-Bromofluorobenzene

Concen: 19.645 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

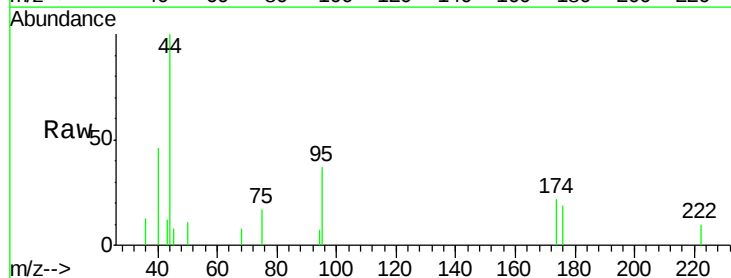
Tgt Ion: 95 Resp: 940

Ion Ratio Lower Upper

95 100

174 58.6 0.0 130.4

176 50.0 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

600

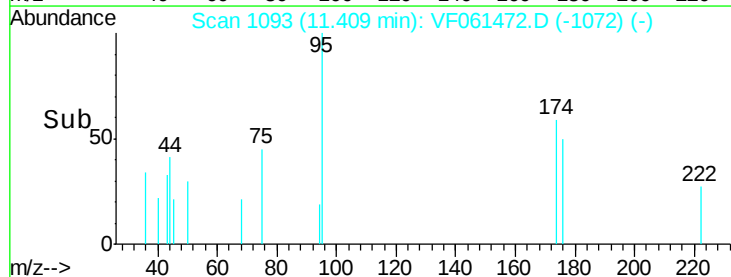
400

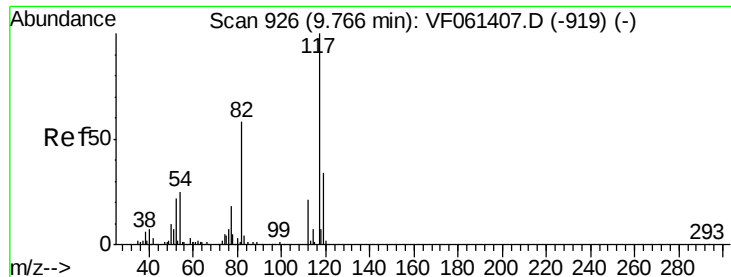
200

0

11.35 11.40 11.45

Time-->

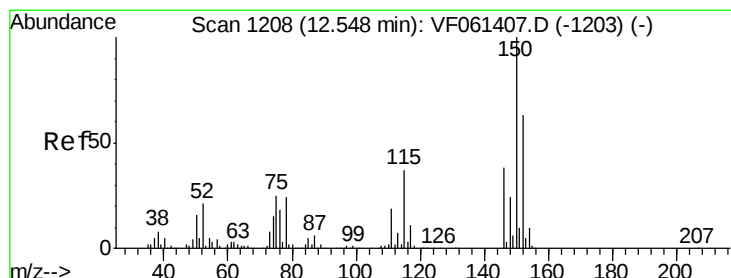
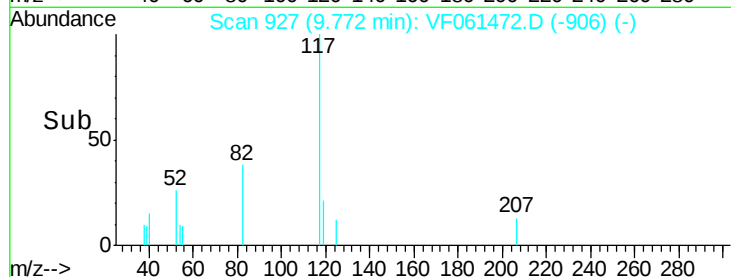
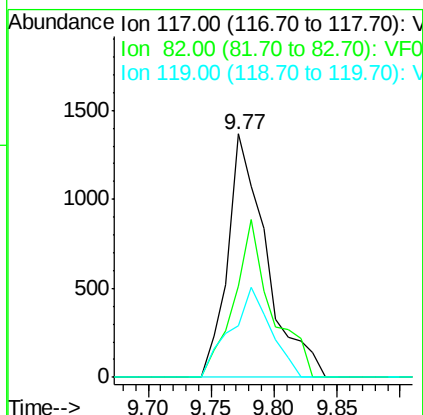
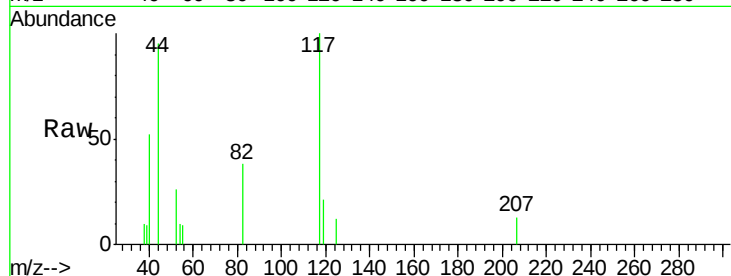




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061472.D
Acq: 21 Jan 2019 14:31

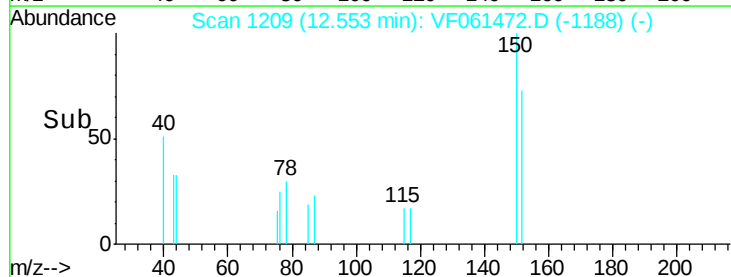
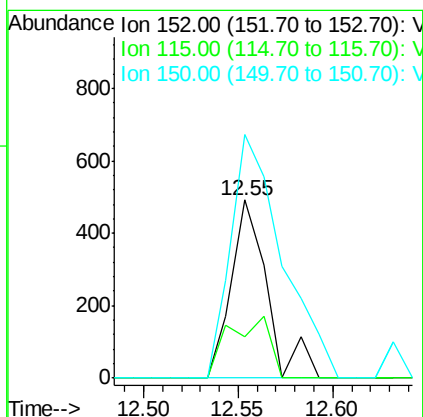
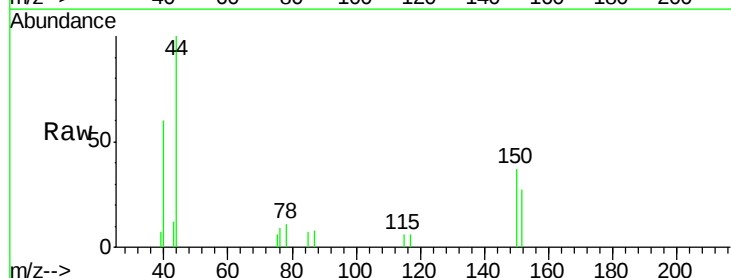
Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-ARE

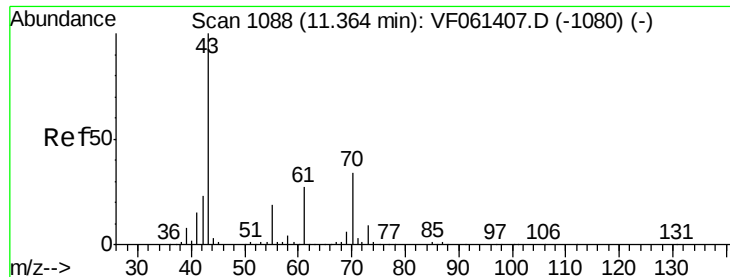
Tot Ion:117 Resp: 2915
Ion Ratio Lower Upper
117 100
82 37.7 46.4 69.6#
119 21.0 27.2 40.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061472.D
Acq: 21 Jan 2019 14:31

Tgt Ion:152 Resp: 645
Ion Ratio Lower Upper
152 100
115 23.4 30.0 90.0#
150 136.9 0.0 321.4





#74

N-amvl acetate

Concen: 20.718 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

Tot Ion: 43 Resp: 257

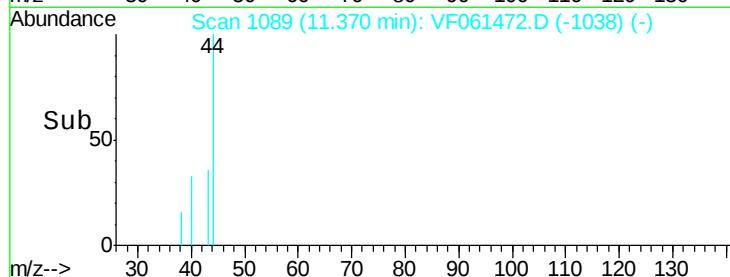
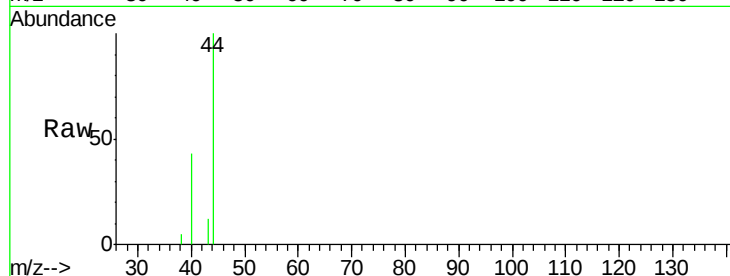
Ion Ratio Lower Upper

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

Time-->

11.34 11.36 11.38 11.40

11.37

11.38

11.39

11.40

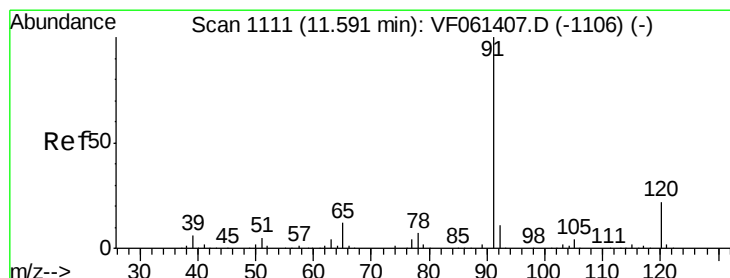
11.41

11.42

11.43

11.44

11.45



#78

n-propylbenzene

Concen: 1.086 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.12 min

Lab File: VF061472.D

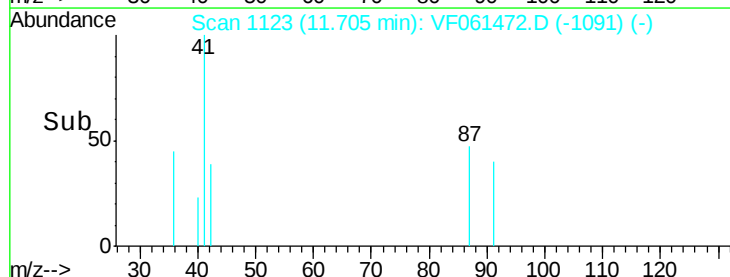
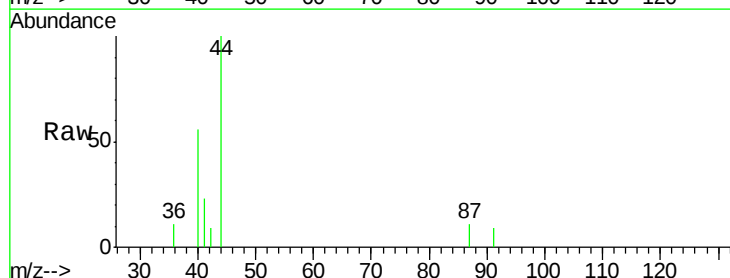
Acq: 21 Jan 2019 14:31

Tgt Ion: 91 Resp: 62

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): VF0

Time-->

11.68 11.70 11.72

11.71

11.72

11.73

11.74

11.75

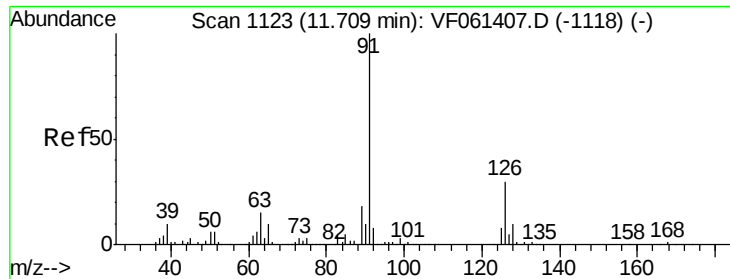
11.76

11.77

11.78

11.79

11.80



#79

2-Chlorotoluene

Concen: 1.703 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

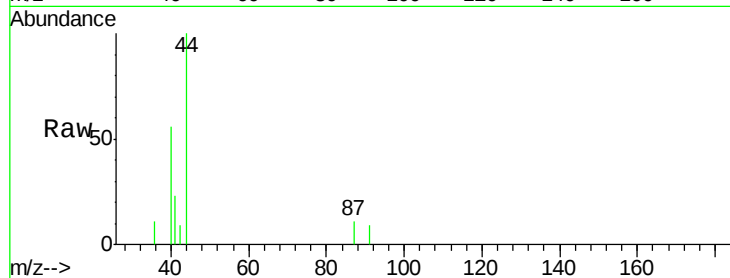
CL-01-011819-ARE

Tot Ion: 91 Resp: 62

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): V

11.71

100

80

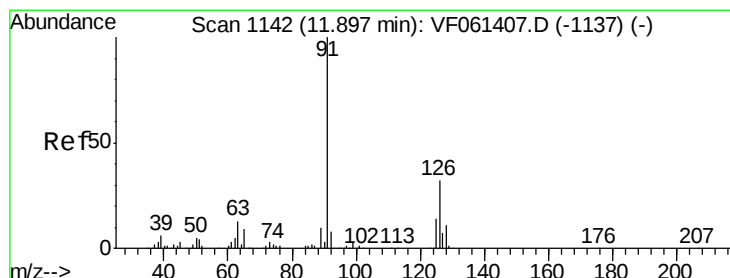
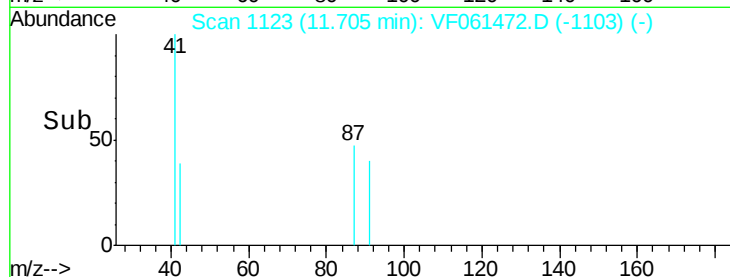
60

40

20

0

Time-->



#82

4-Chlorotoluene

Concen: 2.042 ug/l

RT: 11.93 min Scan# 1146

Delta R.T. 0.04 min

Lab File: VF061472.D

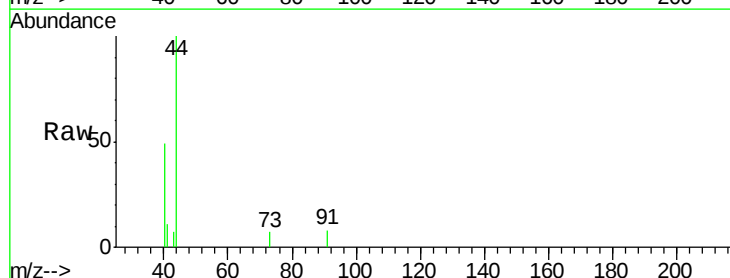
Acq: 21 Jan 2019 14:31

Tgt Ion: 91 Resp: 75

Ion Ratio Lower Upper

91 100

126 0.0 16.0 47.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.93

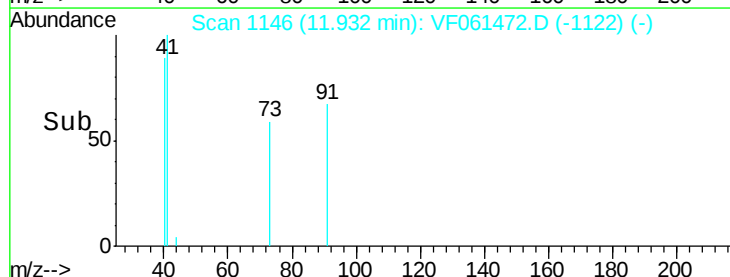
150

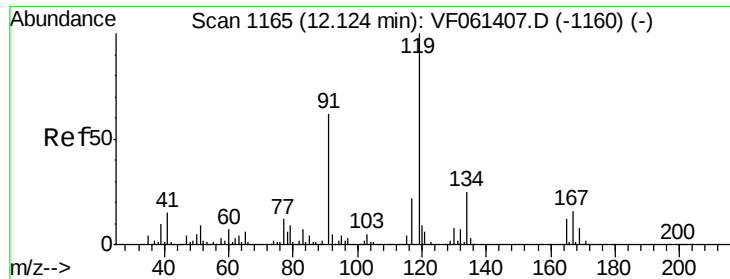
100

50

0

Time-->





#83

tert-Butylbenzene

Concen: 1.643 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. 0.01 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

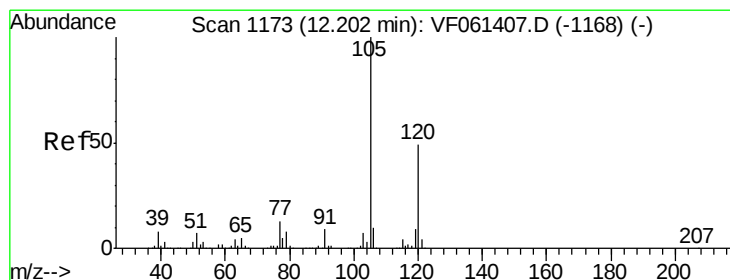
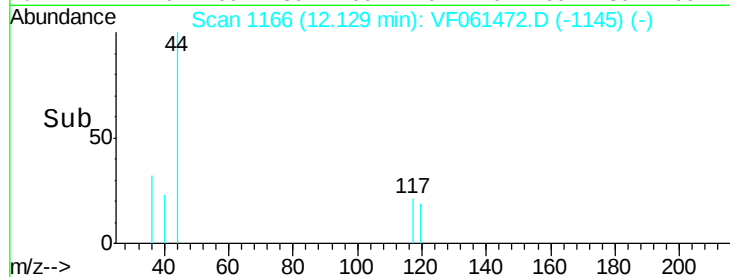
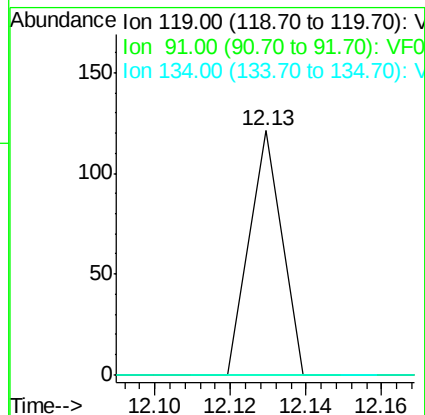
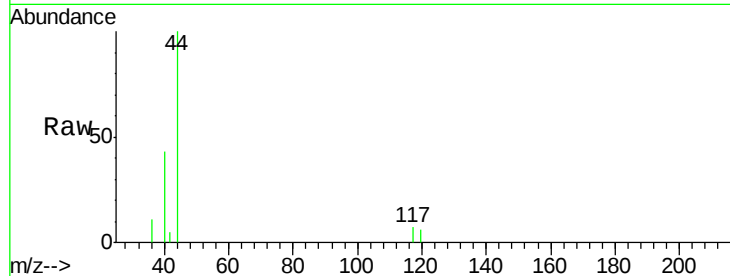
Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

Tot Ion:	119	Resp:	72
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.3	93.8#
134	0.0	12.4	37.0#



#84

1,2,4-Trimethylbenzene

Concen: 1.812 ug/l

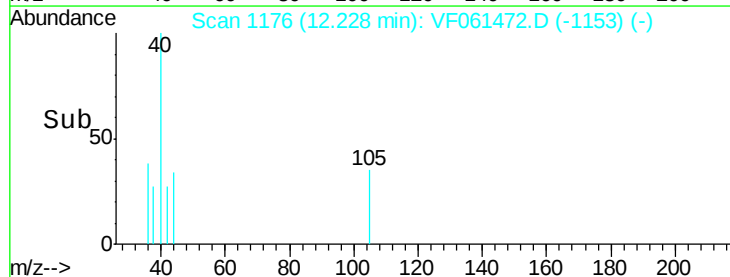
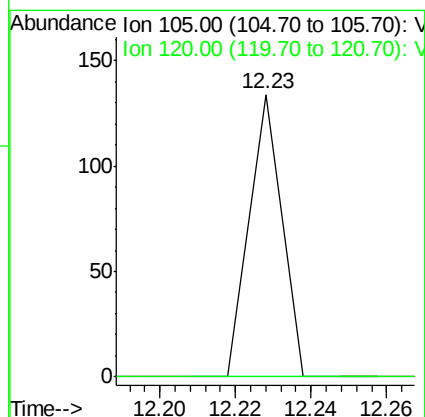
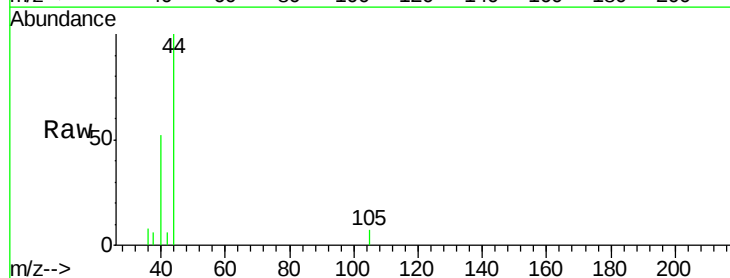
RT: 12.23 min Scan# 1176

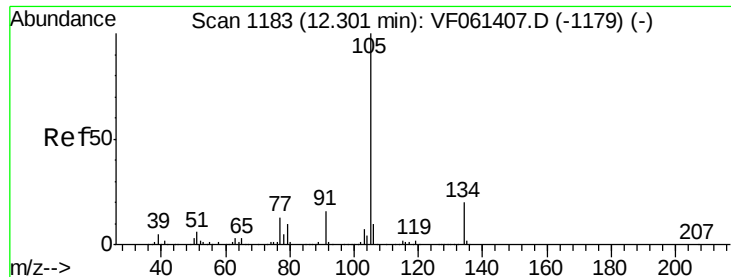
Delta R.T. 0.03 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Tgt Ion:	105	Resp:	79
Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.9	74.6#





#85

sec-Butylbenzene

Concen: 1.328 ug/l

RT: 12.23 min Scan# 1176

Delta R.T. -0.07 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

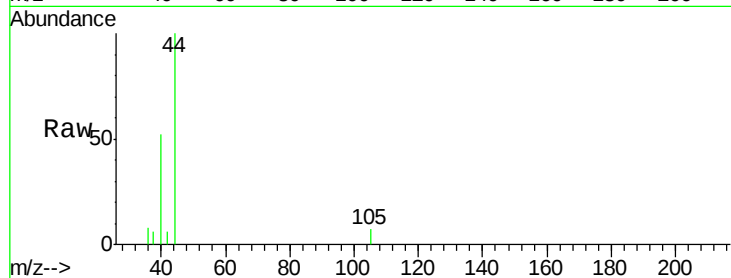
CL-01-011819-ARE

Tot Ion:105 Resp: 79

Ion Ratio Lower Upper

105 100

134 0.0 10.0 30.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

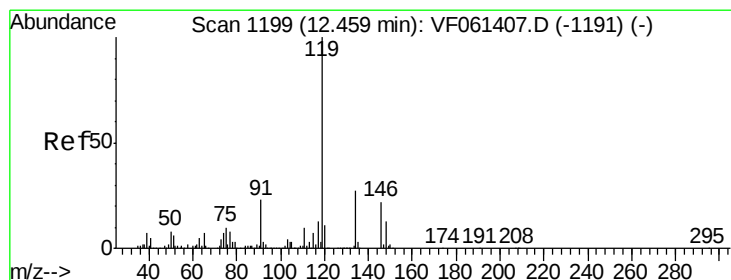
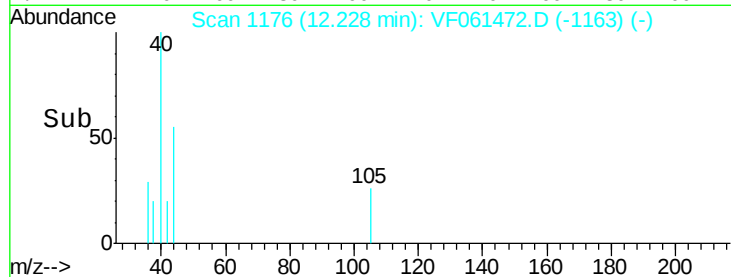
12.23

100

50

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.331 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

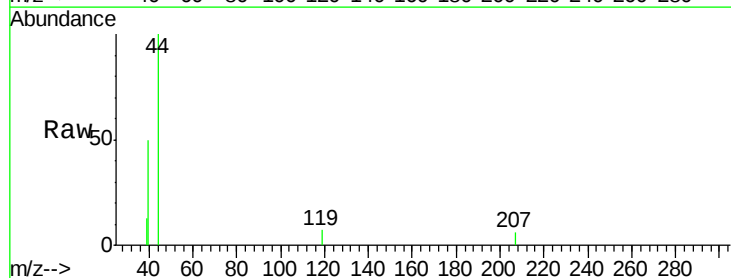
Tgt Ion:119 Resp: 65

Ion Ratio Lower Upper

119 100

134 0.0 13.4 40.2#

91 0.0 11.4 34.2#



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): VF0

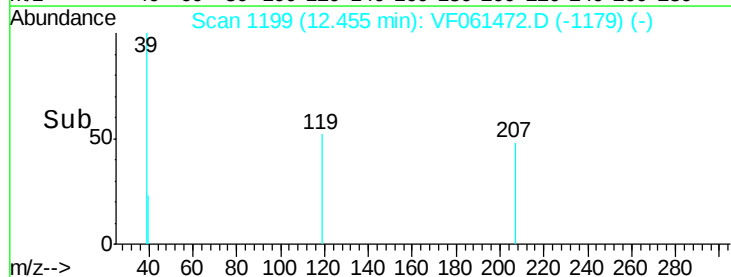
12.45

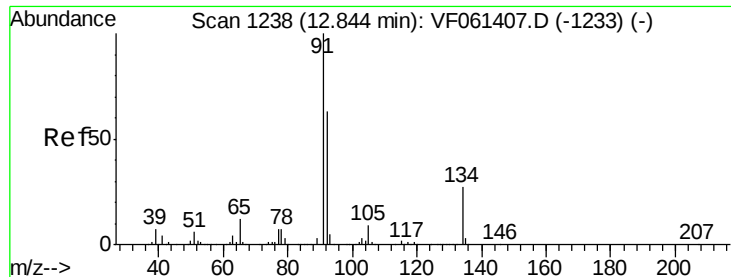
100

50

0

Time-->

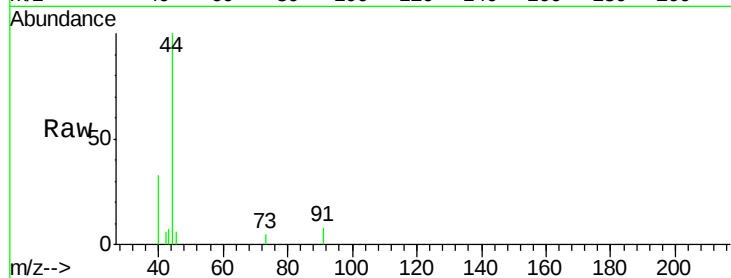




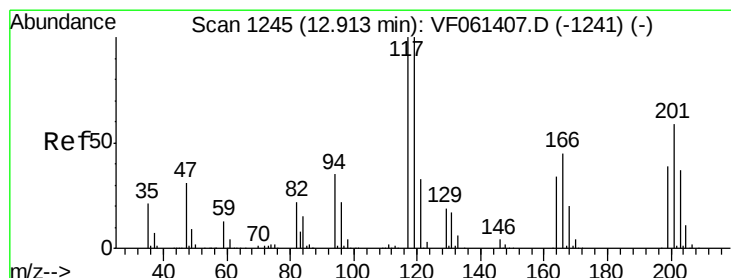
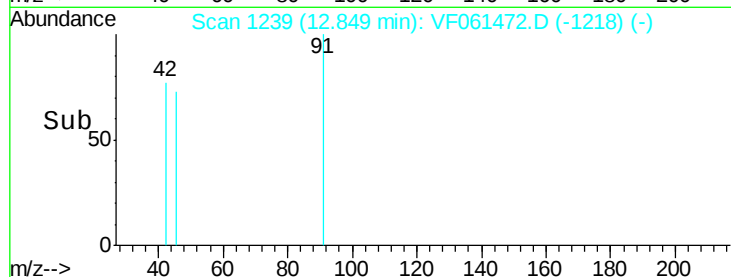
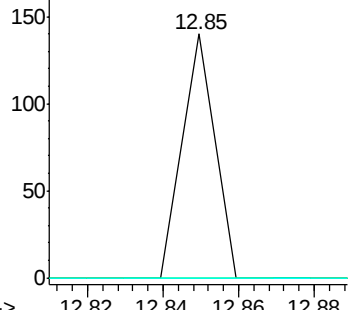
#89
n-Butylbenzene
Concen: 1.648 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VF061472.D
Acq: 21 Jan 2019 14:31

Instrument :
MSVOA_F
ClientSampleId :
CL-01-011819-ARE

Tot Ion: 91 Resp: 83
Ion Ratio Lower Upper
91 100
92 0.0 31.6 94.7#
134 0.0 13.6 40.8#

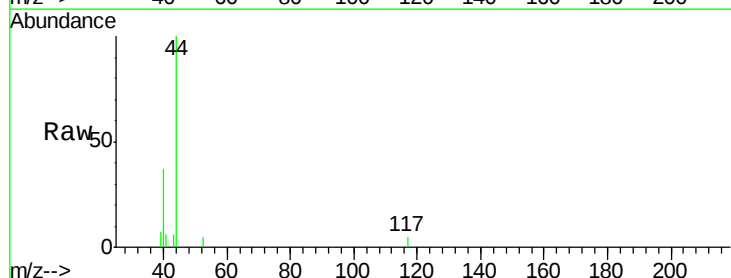


Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V

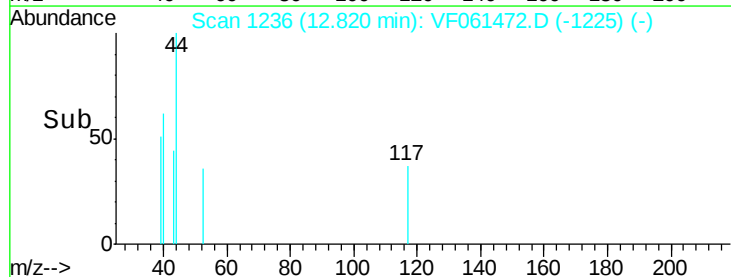
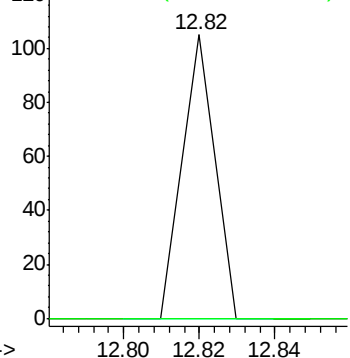


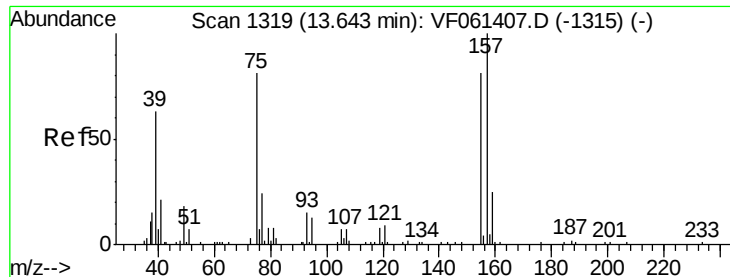
#90
Hexachloroethane
Concen: 5.384 ug/l
RT: 12.82 min Scan# 1236
Delta R.T. -0.09 min
Lab File: VF061472.D
Acq: 21 Jan 2019 14:31

Tgt Ion: 117 Resp: 62
Ion Ratio Lower Upper
117 100
201 0.0 29.3 87.8#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 56.709 ug/l

RT: 13.73 min Scan# 1328

Delta R.T. 0.08 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

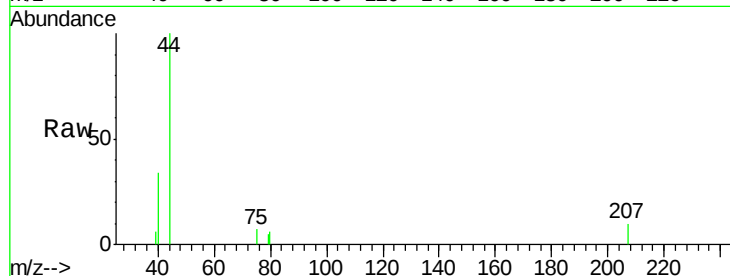
Tot Ion: 75 Resp: 94

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

13.73

150

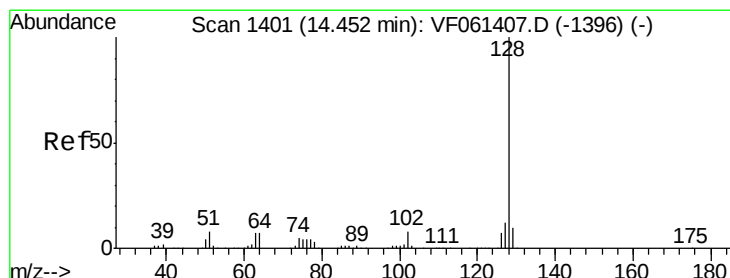
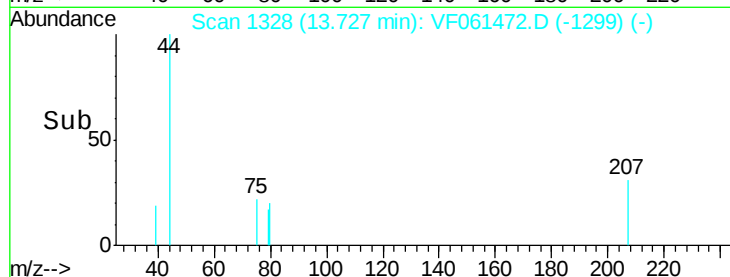
100

50

0

13.70 13.72 13.74

Time-->



#95

Naphthalene

Concen: 5.510 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

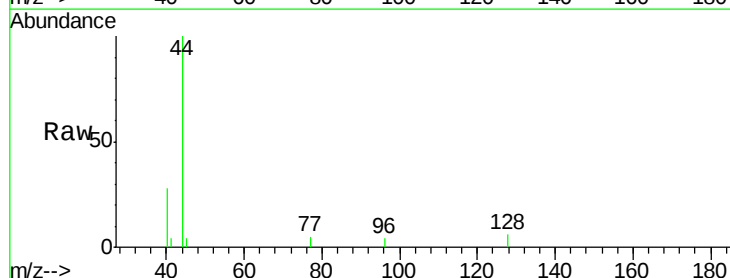
Tgt Ion: 128 Resp: 152

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

14.47

150

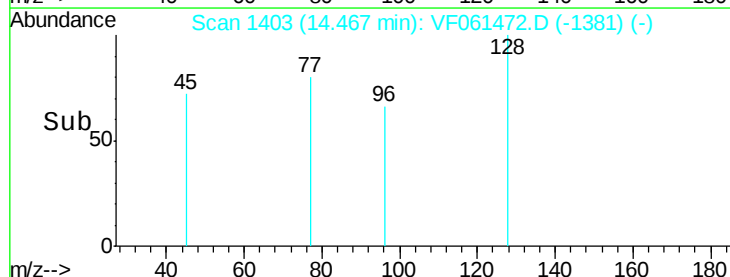
100

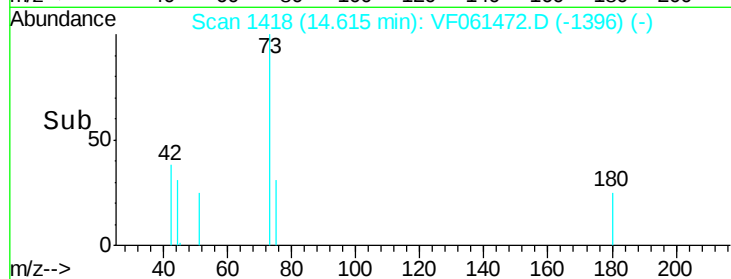
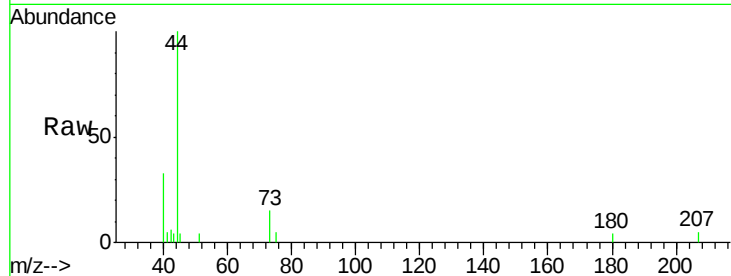
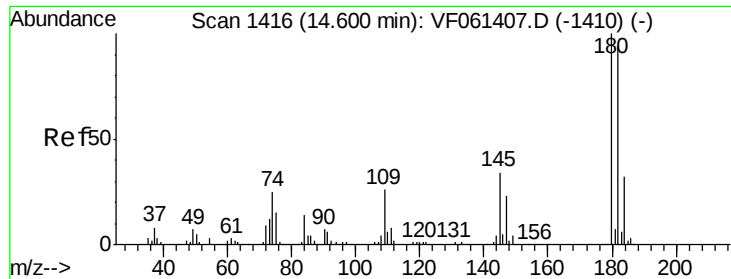
50

0

14.45 14.50

Time-->





#96

1,2,3-Trichlorobenzene

Concen: 4.464 ug/l

RT: 14.62 min Scan# 1418

Delta R.T. 0.02 min

Lab File: VF061472.D

Acq: 21 Jan 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

CL-01-011819-ARE

Tot Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 0.0 47.0 141.2#

145 0.0 17.1 51.2#

