

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062401.D
 Acq On : 9 May 2019 17:46
 Operator : FY/SY
 Sample : K2641-01
 Misc : 6.10g/5mL/MSVOA_F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-050719-A

Quant Time: May 10 01:53:55 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	5.05	168	267057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	347830	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	211693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	87278	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	221795	87.88	ug/l	0.00
Spiked Amount			Recovery	=	175.76%	
35) Dibromofluoromethane	4.30	113	215712	77.84	ug/l	0.00
Spiked Amount			Recovery	=	155.68%	
50) Toluene-d8	7.70	98	204283	30.45	ug/l	0.00
Spiked Amount			Recovery	=	60.90%	
62) 4-Bromofluorobenzene	11.48	95	108481	35.85	ug/l	0.00
Spiked Amount			Recovery	=	71.70%	

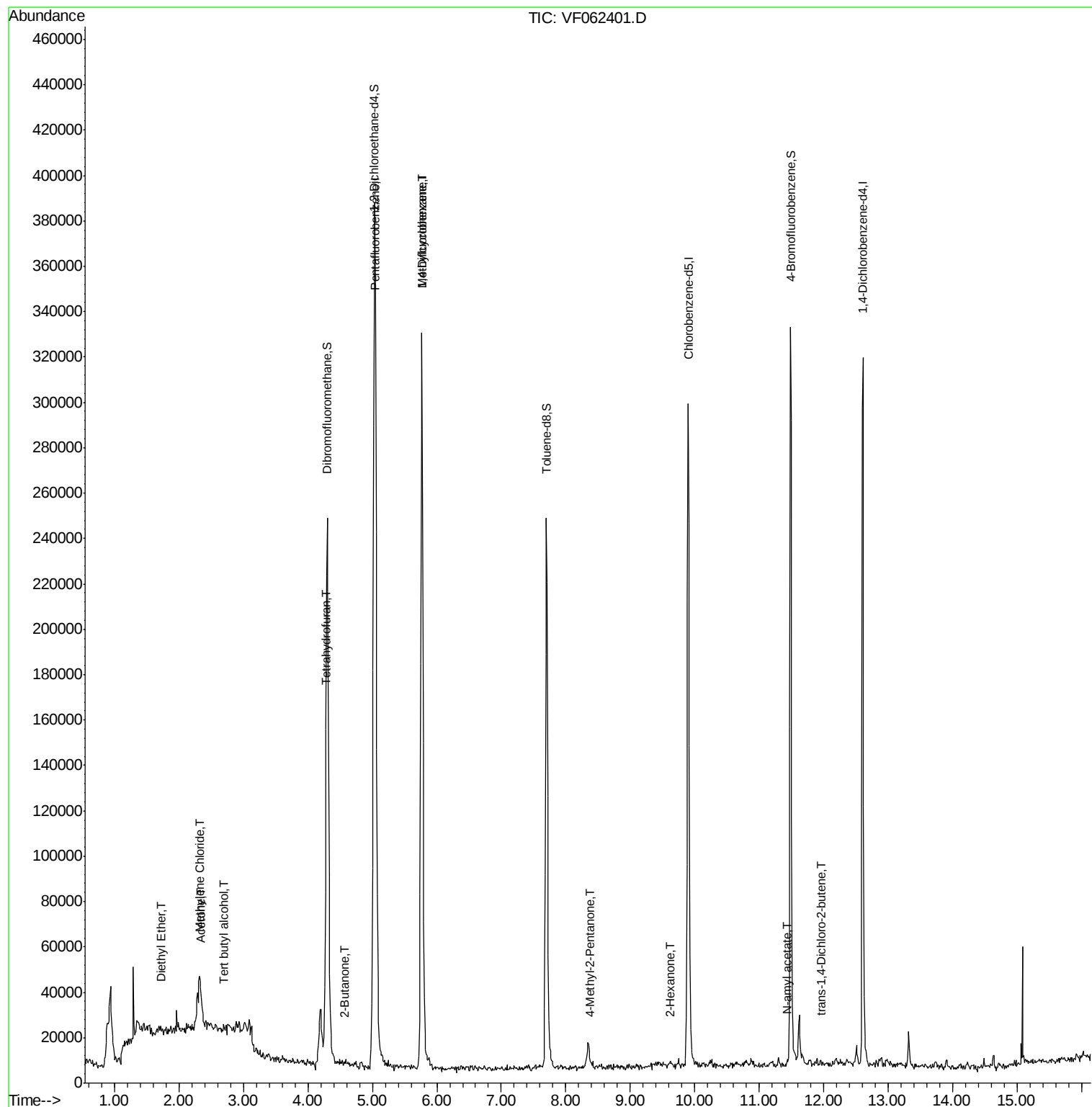
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	1250	Below Cal	#	4
8) Diethyl Ether	1.73	74	922	1.444	ug/l	70
11) Tert butyl alcohol	2.71	59	1496	10.488	ug/l #	70
13) Acrolein	2.12	56	789	Below Cal	#	13
16) Acetone	2.35	43	3057	5.988	ug/l	95
18) Methyl Acetate	2.48	43	2113	Below Cal	#	58
20) Methylene Chloride	2.33	84	21859	11.834	ug/l #	88
25) 2-Butanone	4.56	43	1266	1.974	ug/l #	60
29) Tetrahydrofuran	4.27	42	1875	6.360	ug/l #	70
37) Ethyl Acetate	4.33	43	523	Below Cal	#	73
38) Carbon Tetrachloride	4.17	117	62	Below Cal	#	14
39) Methylcyclohexane	5.76	83	4446	1.484	ug/l #	36
49) 1,4-Dioxane	6.87	88	83	Below Cal	#	16
51) 4-Methyl-2-Pentanone	8.39	43	1519	1.475	ug/l #	60
59) 2-Hexanone	9.62	43	2115	2.970	ug/l #	58
74) N-amyl acetate	11.44	43	1537	1.384	ug/l #	58
81) trans-1,4-Dichloro-2-buten	11.95	75	461	1.984	ug/l #	5

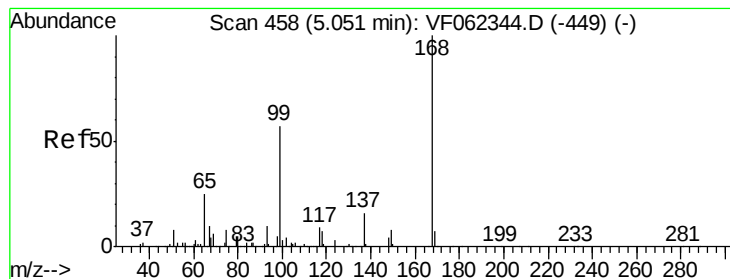
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

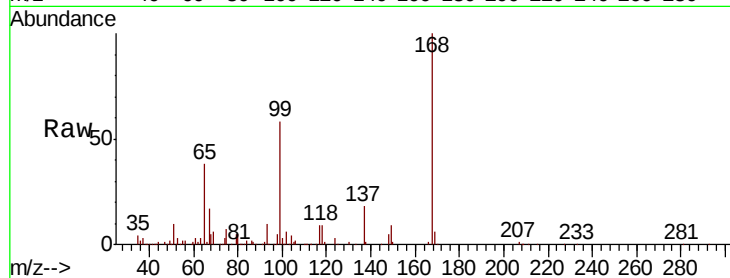
CL-02-050719-A

Tgt Ion:168 Resp: 267057

Ion Ratio Lower Upper

168 100

99 58.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

80000

60000

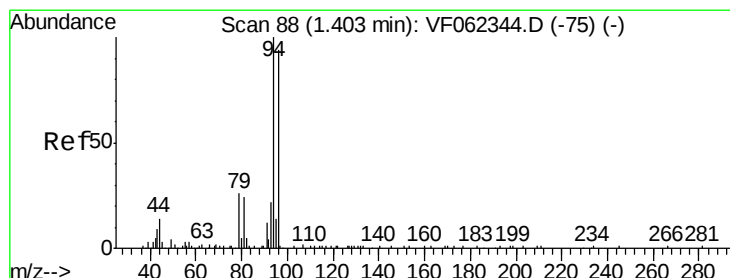
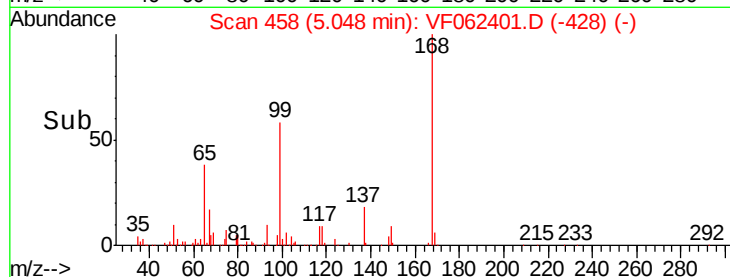
40000

20000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.03 min

Lab File: VF062401.D

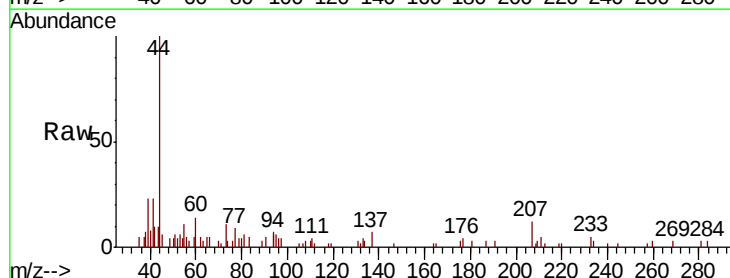
Acq: 9 May 2019 17:46

Tgt Ion: 94 Resp: 1250

Ion Ratio Lower Upper

94 100

96 1.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.43

600

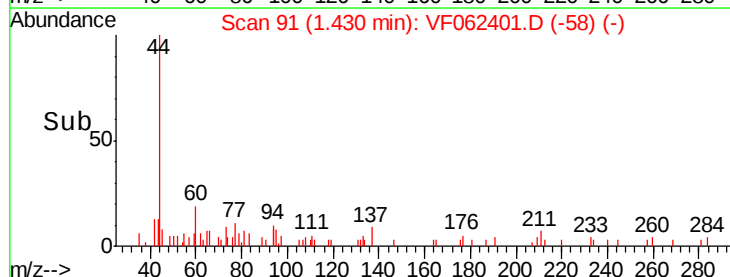
400

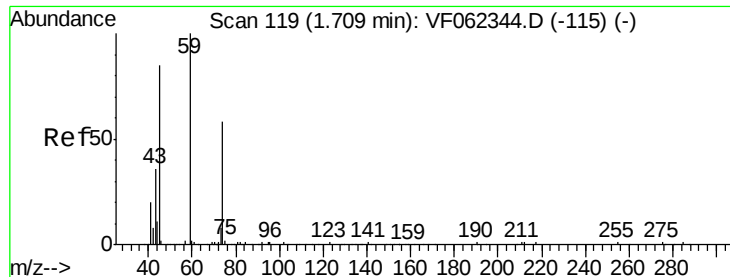
200

0

Time-->

1.40 1.45





#8

Diethyl Ether

Concen: 1.444 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.02 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

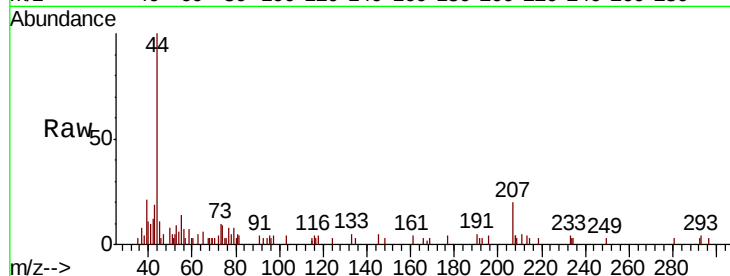
CL-02-050719-A

Tgt Ion: 74 Resp: 922

Ion Ratio Lower Upper

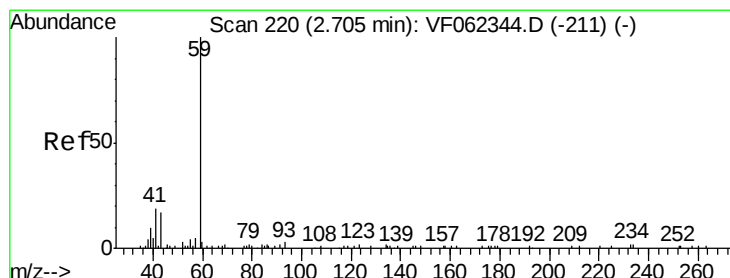
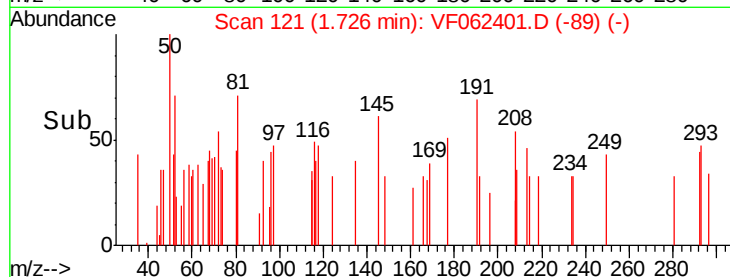
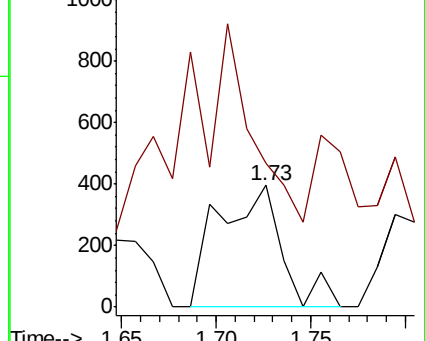
74 100

45 185.1 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 10.488 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062401.D

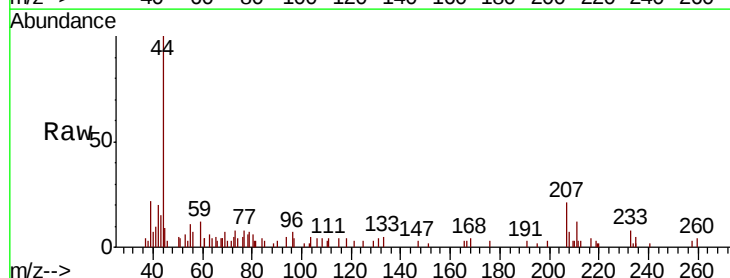
Acq: 9 May 2019 17:46

Tgt Ion: 59 Resp: 1496

Ion Ratio Lower Upper

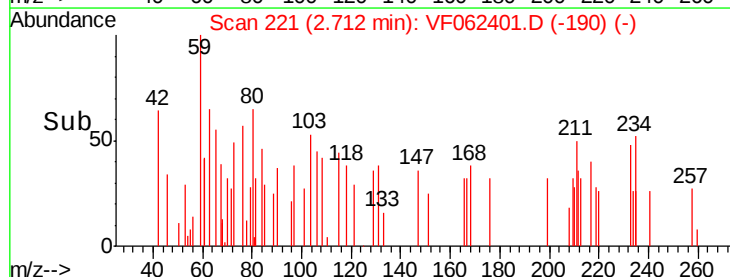
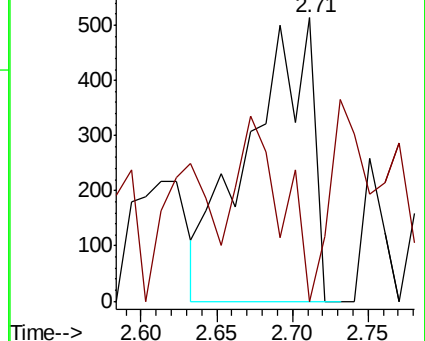
59 100

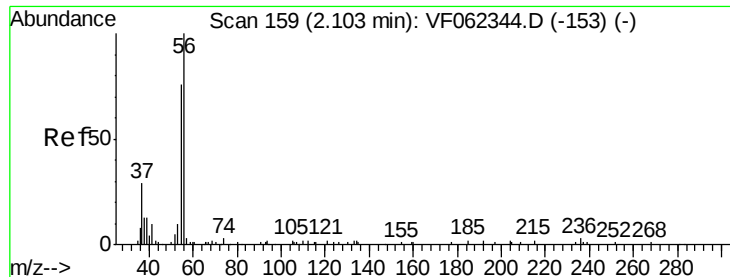
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.12 min Scan# 161

Delta R.T. 0.02 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

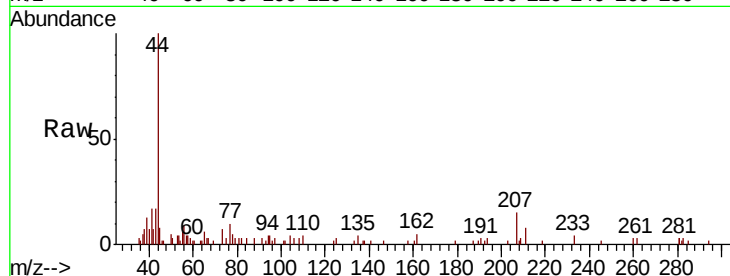
CL-02-050719-A

Tgt Ion: 56 Resp: 789

Ion Ratio Lower Upper

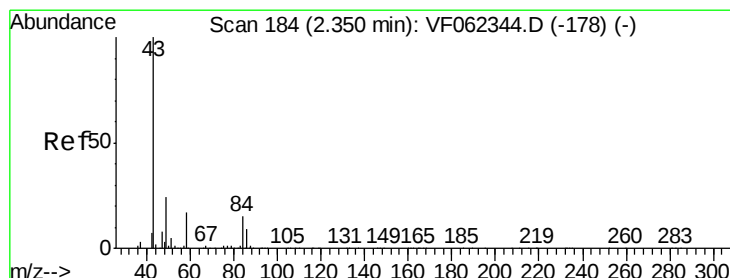
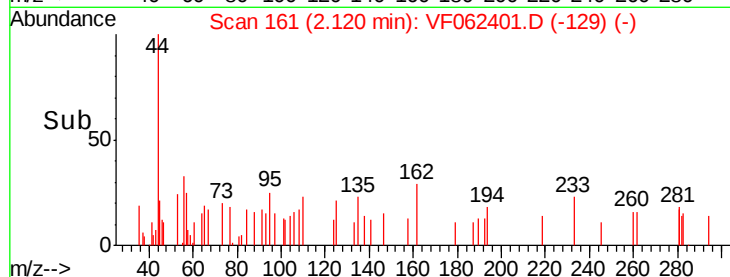
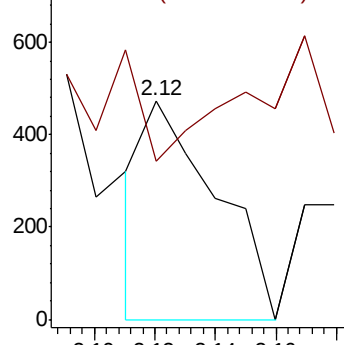
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 5.988 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062401.D

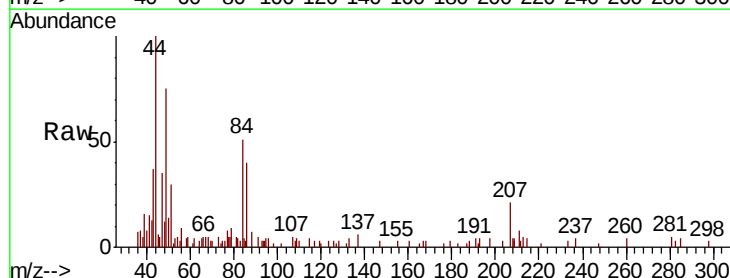
Acq: 9 May 2019 17:46

Tgt Ion: 43 Resp: 3057

Ion Ratio Lower Upper

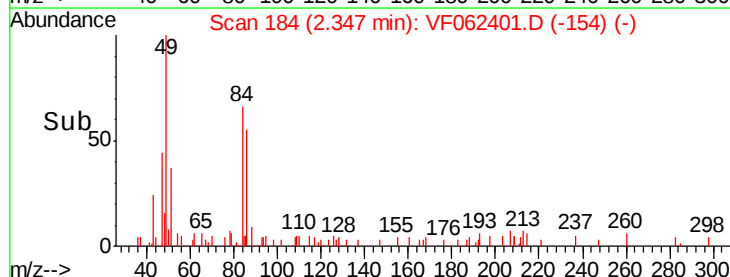
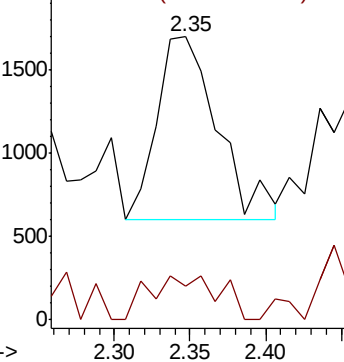
43 100

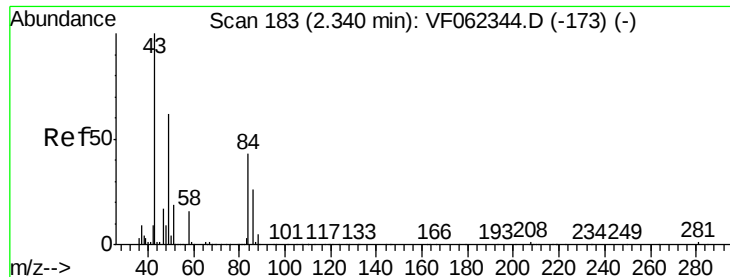
58 18.5 13.1 19.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

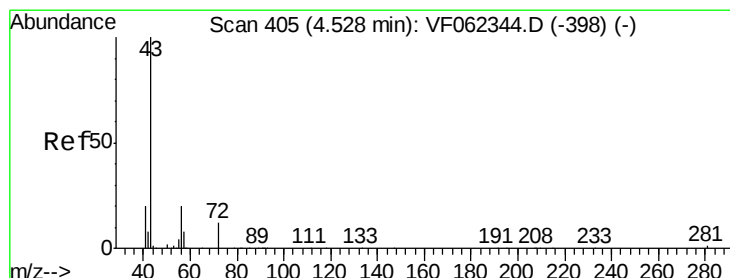
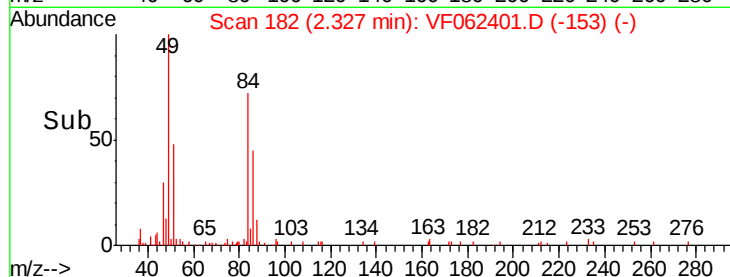
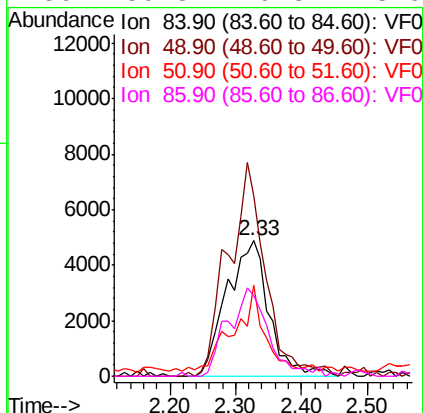
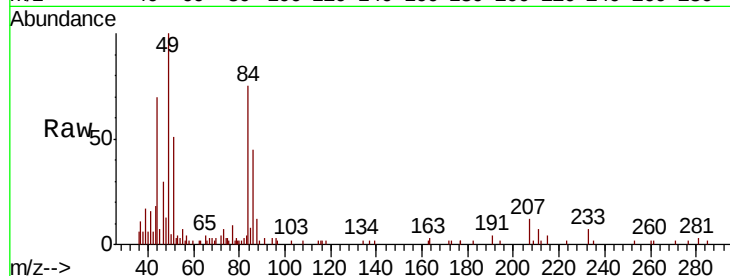




#20
Methylene Chloride
Concen: 11.834 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

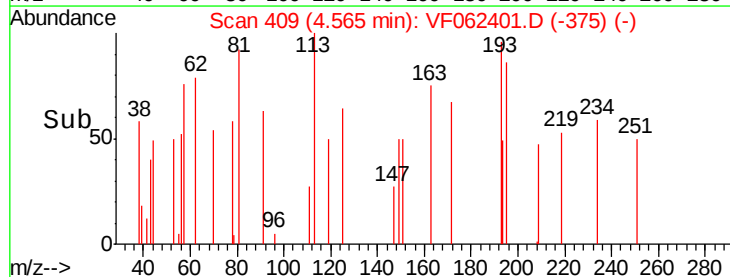
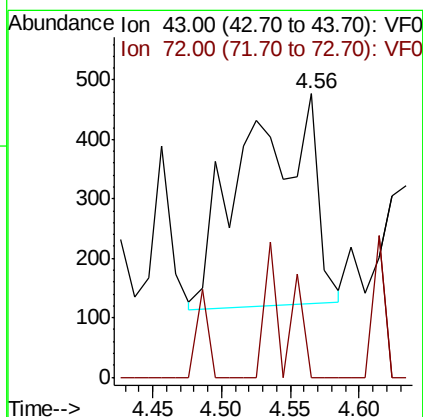
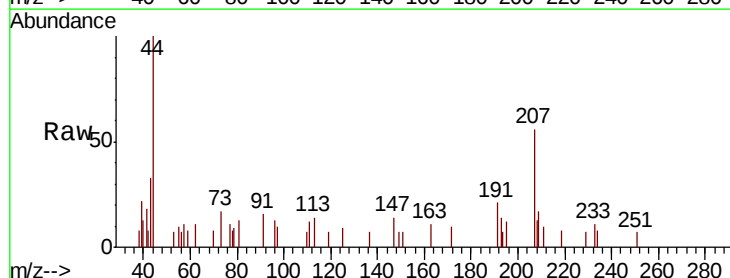
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-A

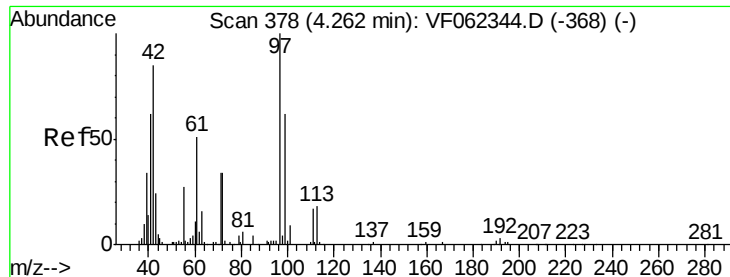
Tgt Ion: 84 Resp: 21859
Ion Ratio Lower Upper
84 100
49 133.3 117.5 176.3
51 64.0 37.0 55.4#
86 59.8 49.3 73.9



#25
2-Butanone
Concen: 1.974 ug/l
RT: 4.56 min Scan# 409
Delta R.T. 0.04 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

Tgt Ion: 43 Resp: 1266
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 6.360 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-A

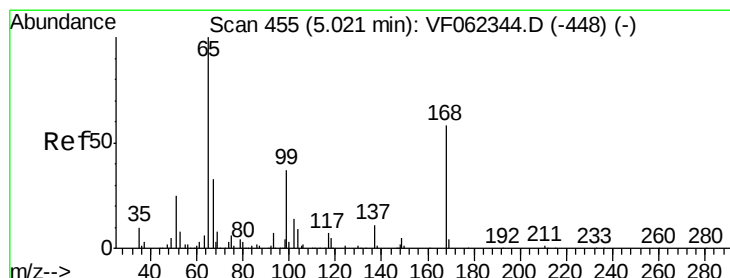
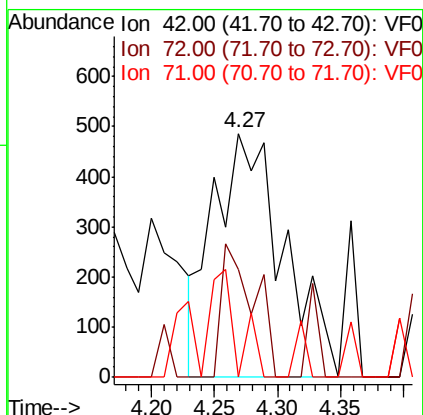
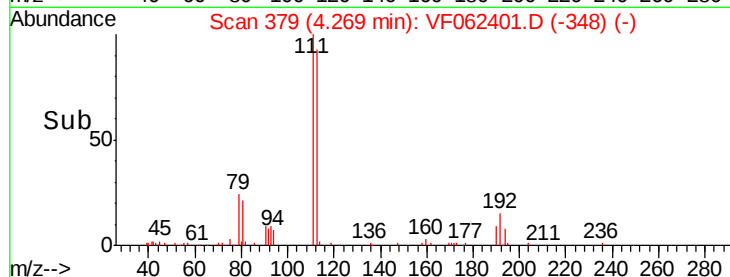
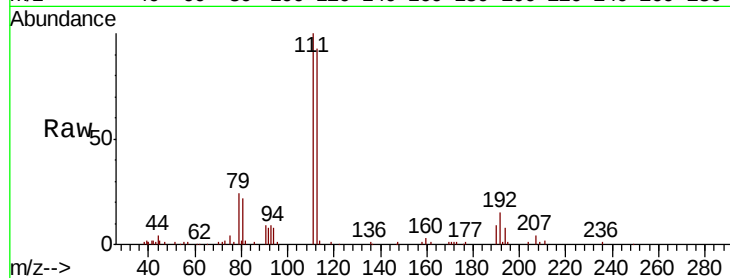
Tgt Ion: 42 Resp: 1875

Ion Ratio Lower Upper

42 100

72 25.5 31.4 47.0#

71 16.9 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 87.881 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.00 min

Lab File: VF062401.D

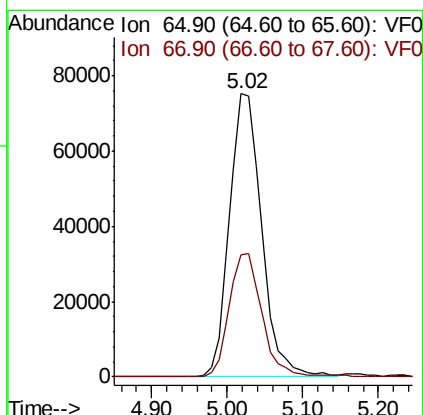
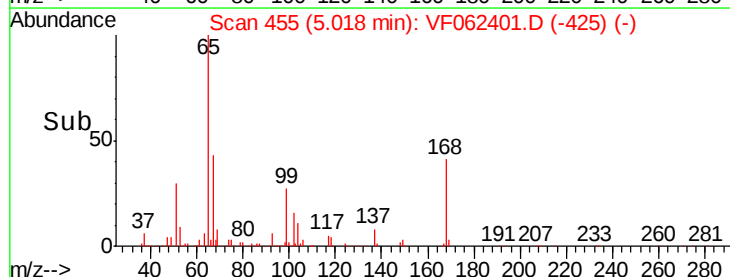
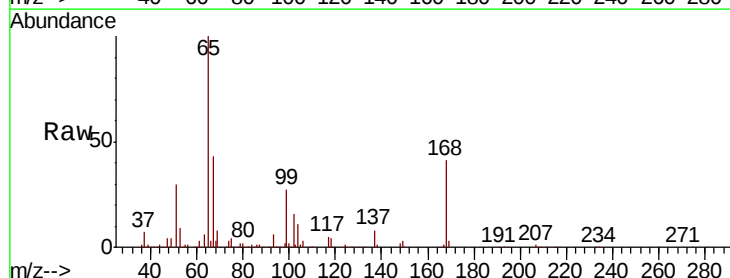
Acq: 9 May 2019 17:46

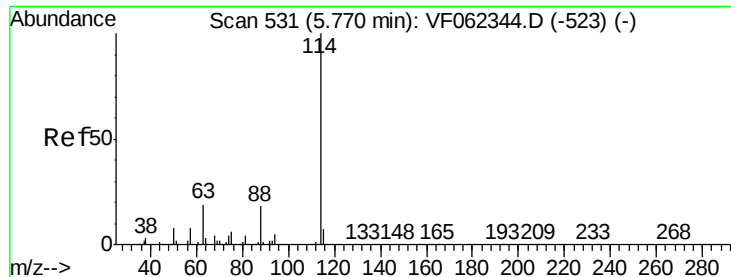
Tgt Ion: 65 Resp: 221795

Ion Ratio Lower Upper

65 100

67 44.5 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

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ClientSampleId :

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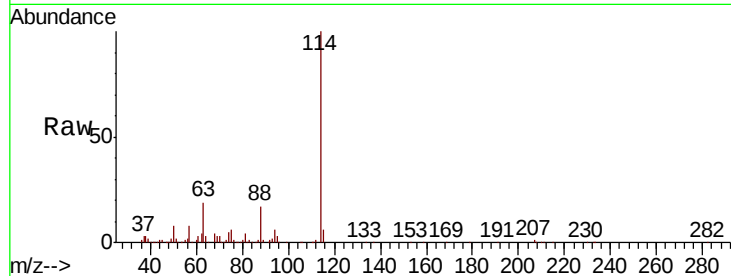
Tgt Ion:114 Resp: 347830

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.4

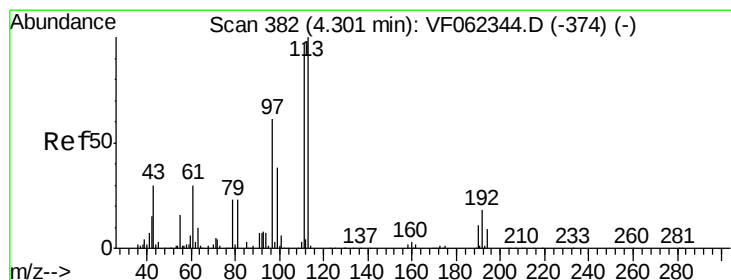
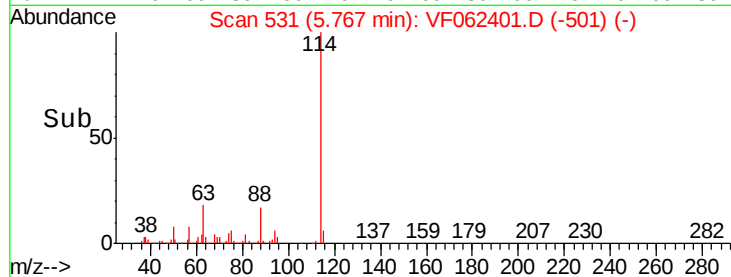
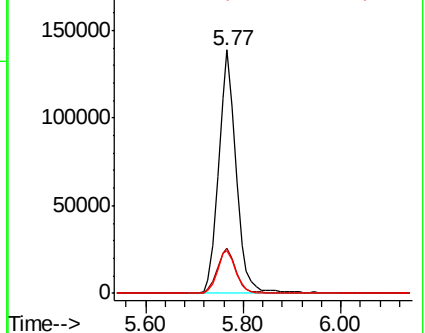
88 17.4 0.0 36.4



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: 77.843 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

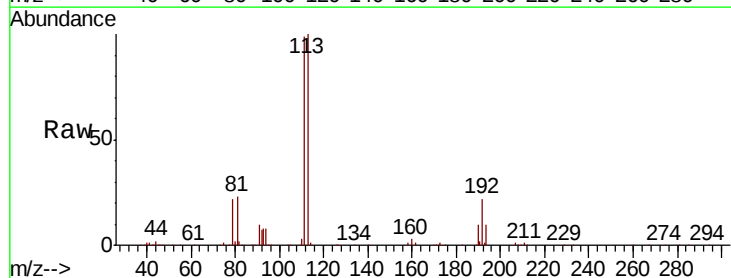
Tgt Ion:113 Resp: 215712

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

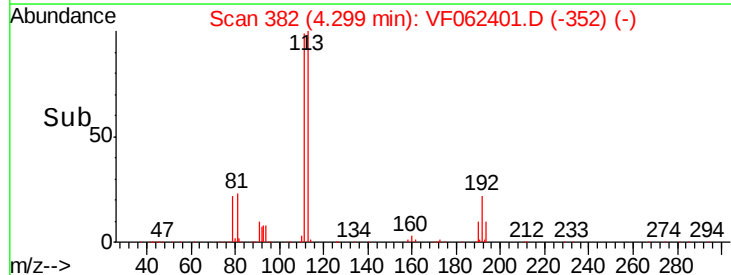
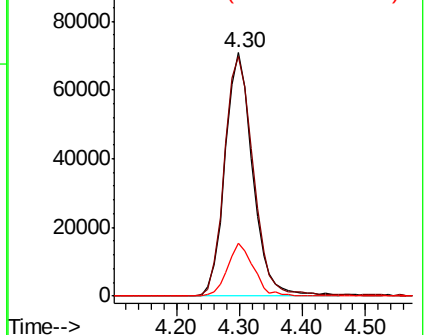
192 20.4 16.0 24.0

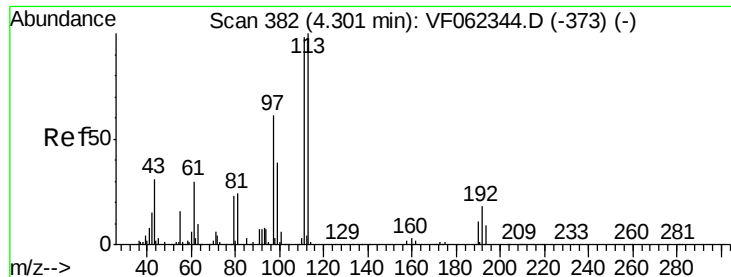


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

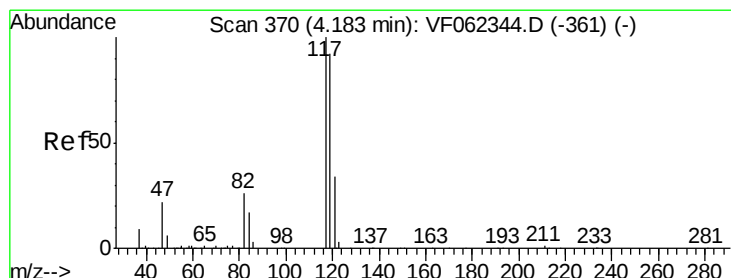
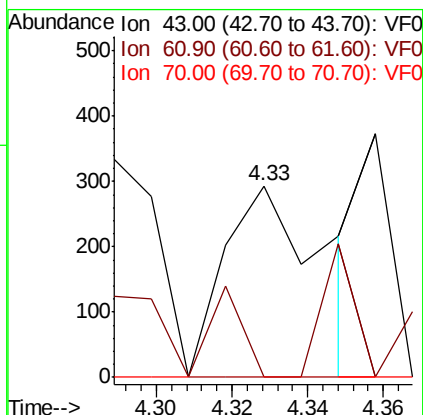
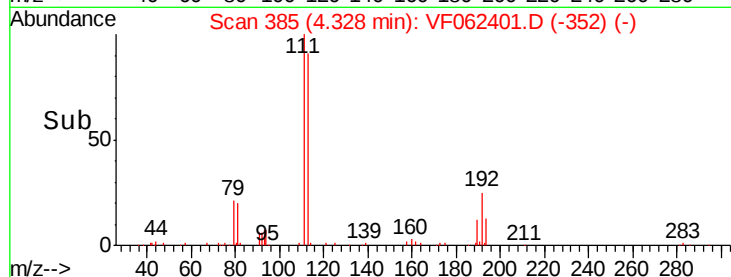
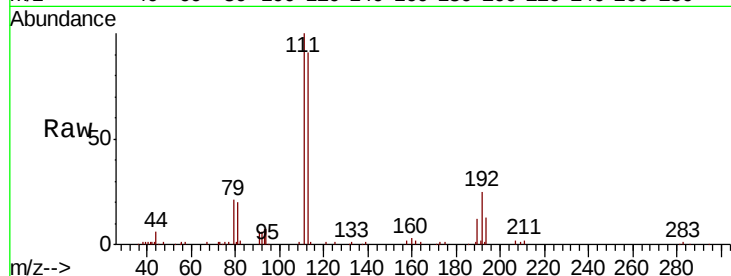




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

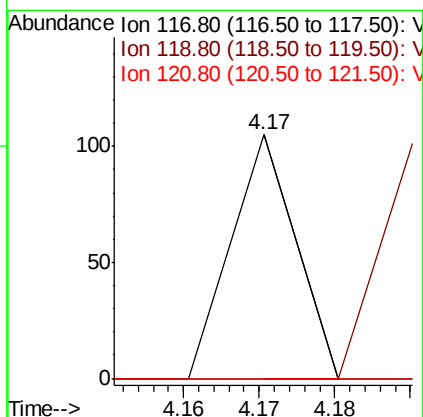
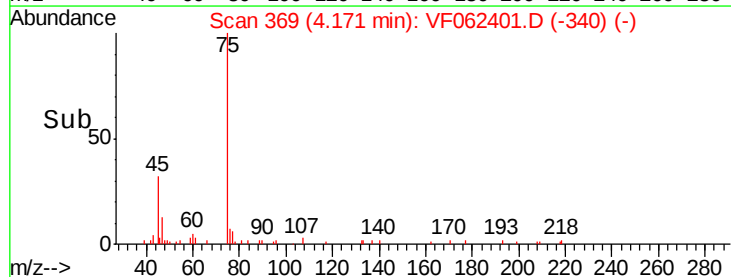
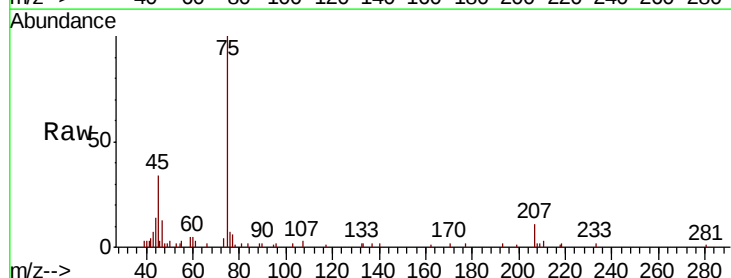
Instrument :
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CL-02-050719-A

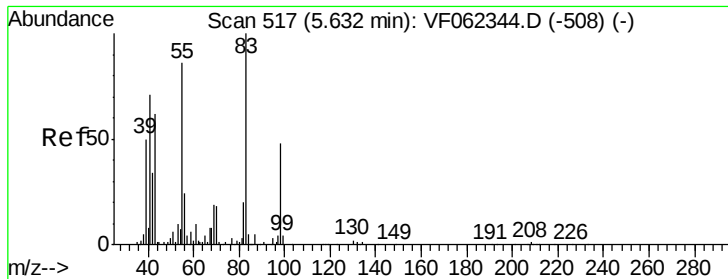
Tgt Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
61 34.8 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.17 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

Tgt Ion: 117 Resp: 62
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 1.484 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.13 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-A

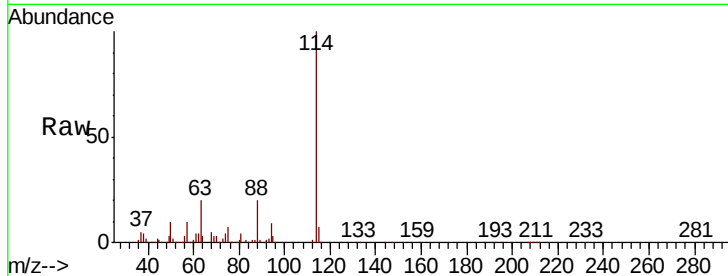
Tgt Ion: 83 Resp: 4446

Ion Ratio Lower Upper

83 100

55 31.6 69.0 103.6#

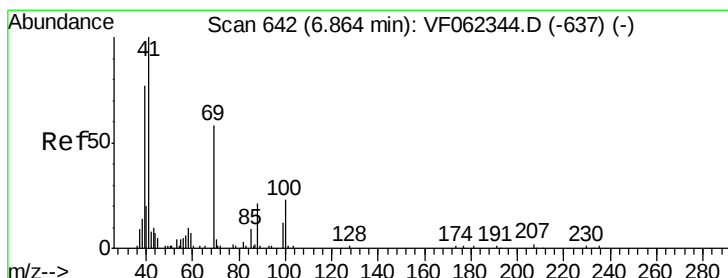
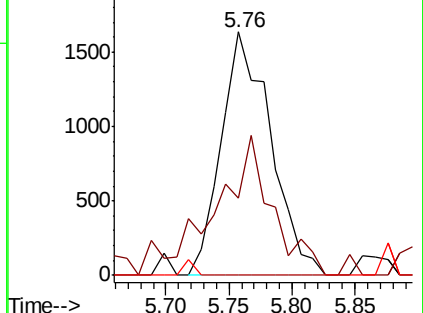
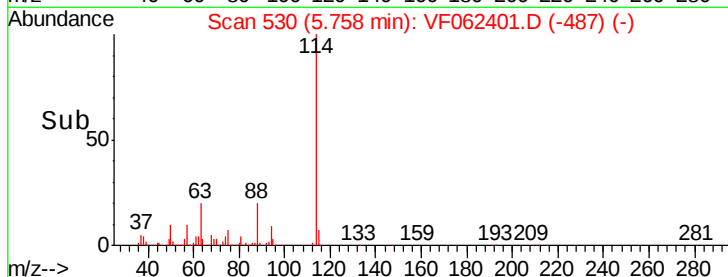
98 0.0 38.6 58.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

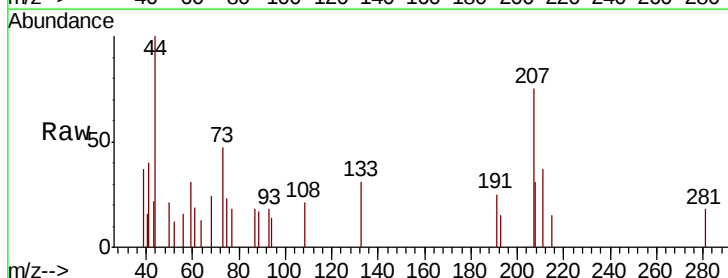
Tgt Ion: 88 Resp: 83

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

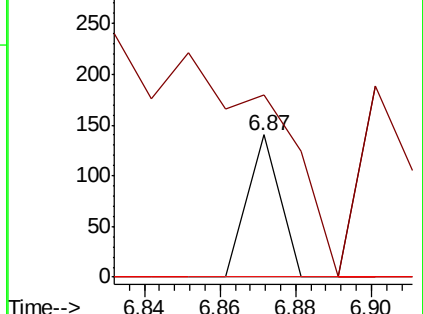
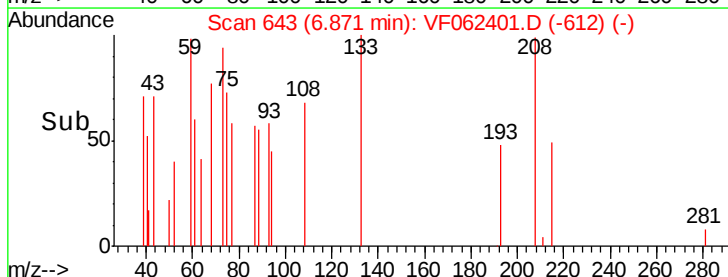
58 0.0 52.8 79.2#

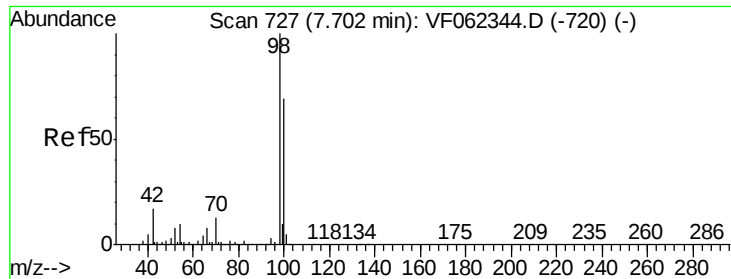


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

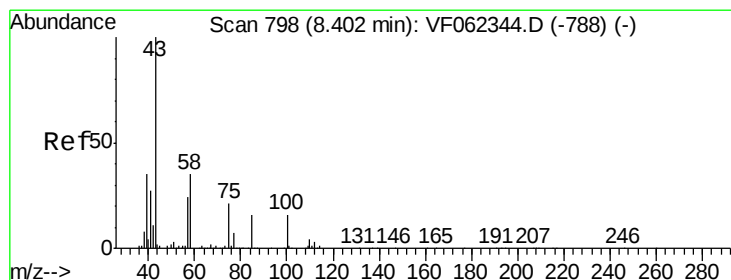
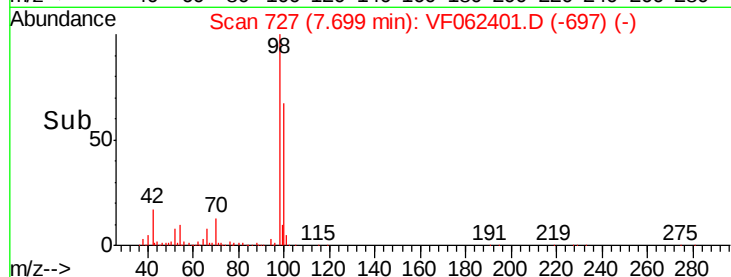
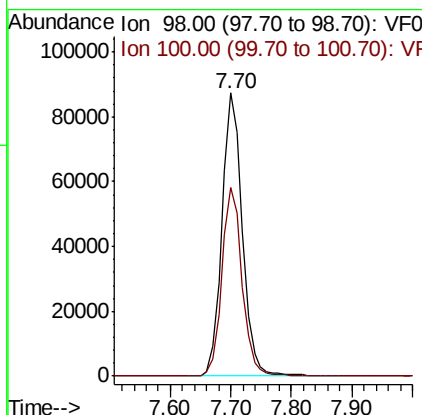
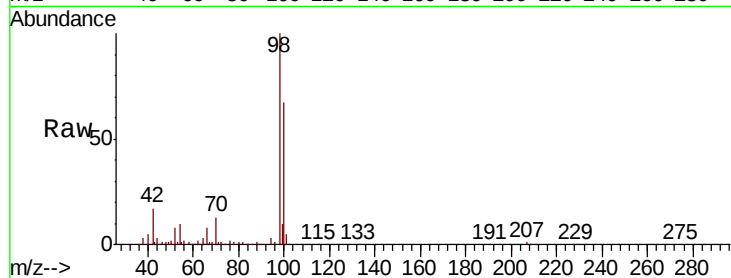




#50
Toluene-d8
Concen: 30.454 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

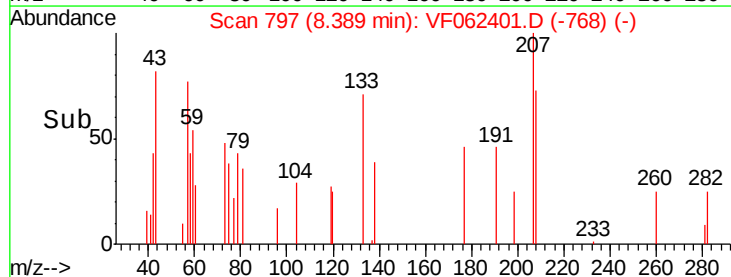
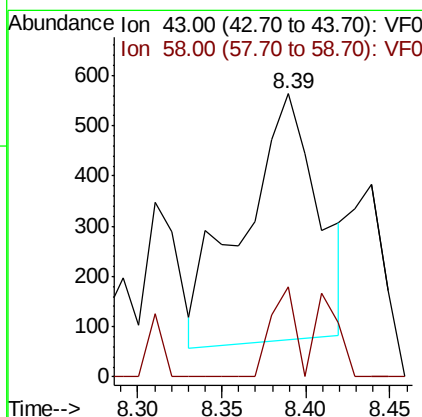
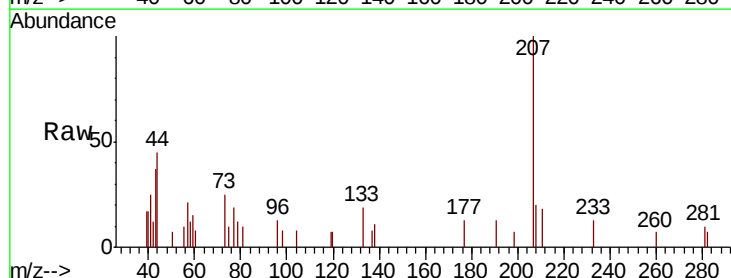
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-A

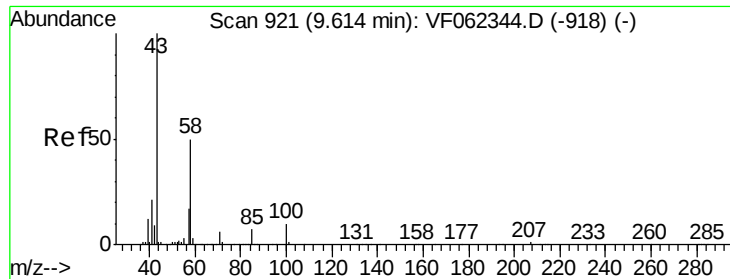
Tgt Ion: 98 Resp: 204283
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 1.475 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.01 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

Tgt Ion: 43 Resp: 1519
Ion Ratio Lower Upper
43 100
58 11.8 27.8 41.6#

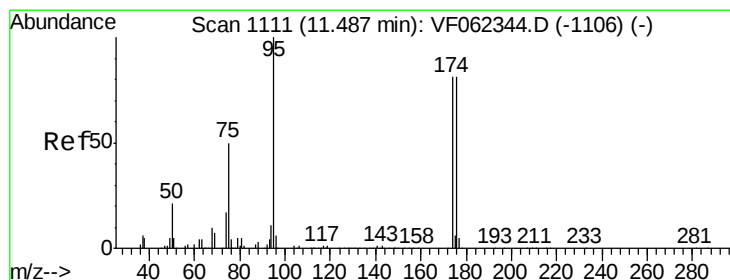
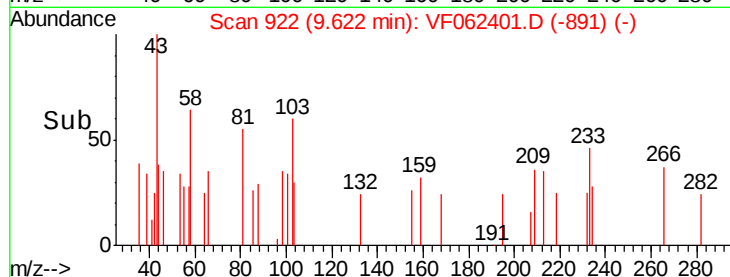
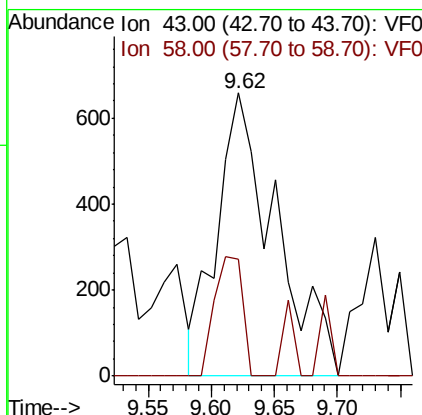
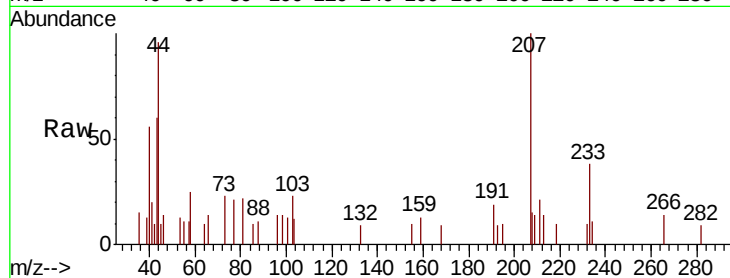




#59
2-Hexanone
Concen: 2.970 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

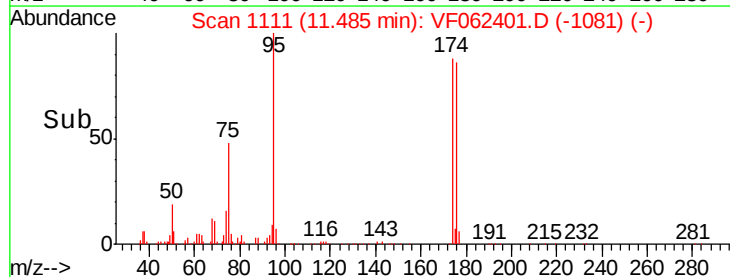
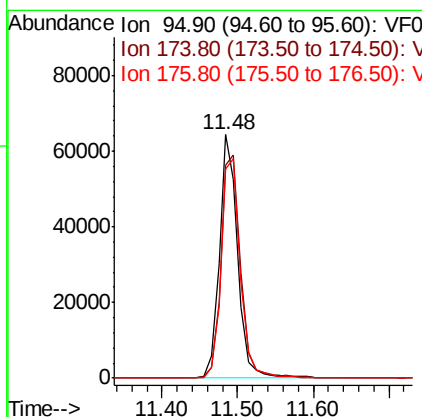
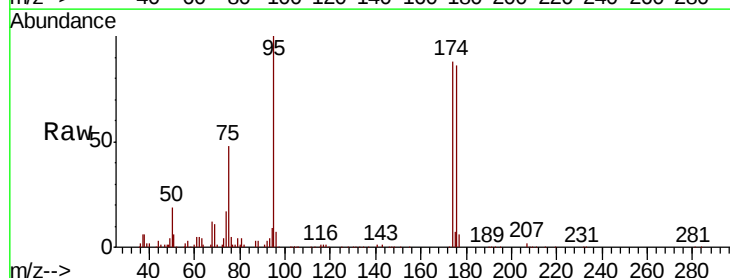
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-A

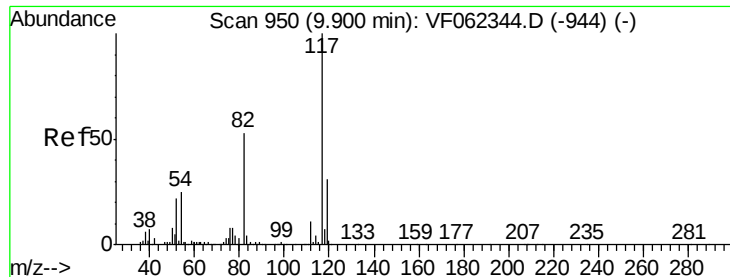
Tgt Ion: 43 Resp: 2115
Ion Ratio Lower Upper
43 100
58 20.3 24.3 73.0#



#62
4-Bromofluorobenzene
Concen: 35.846 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

Tgt Ion: 95 Resp: 108481
Ion Ratio Lower Upper
95 100
174 98.5 0.0 191.8
176 94.9 0.0 193.2

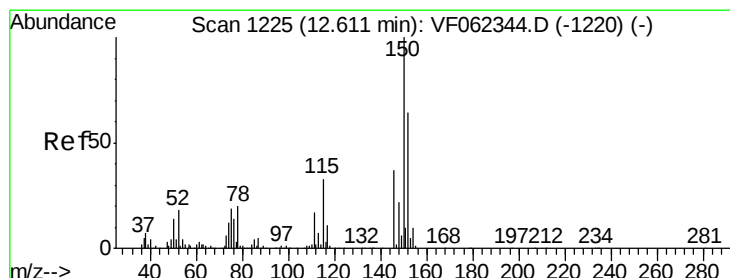
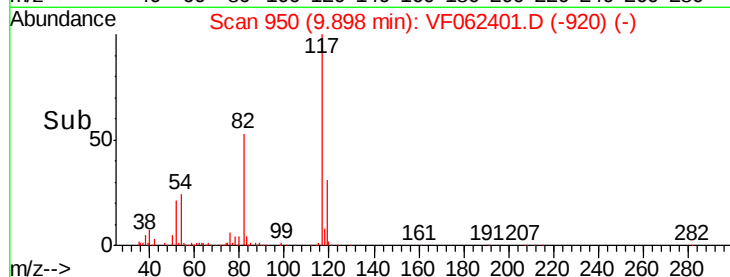
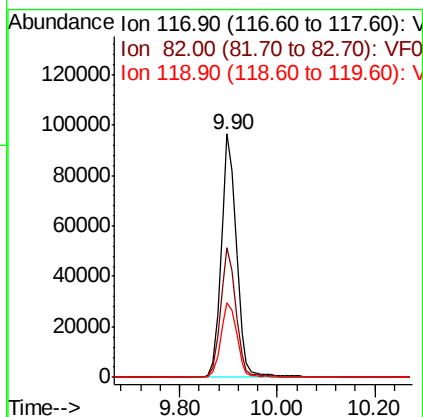
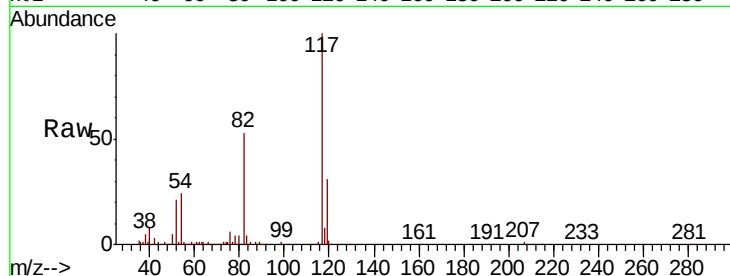




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.00 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

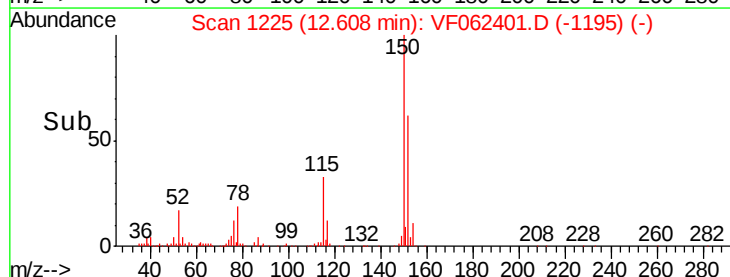
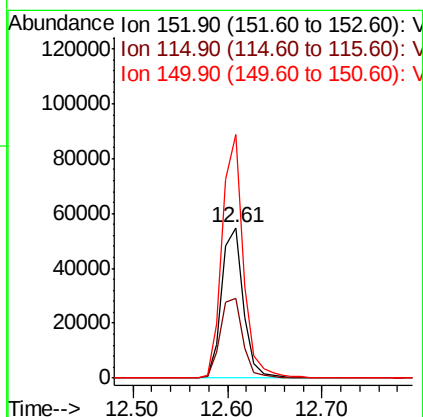
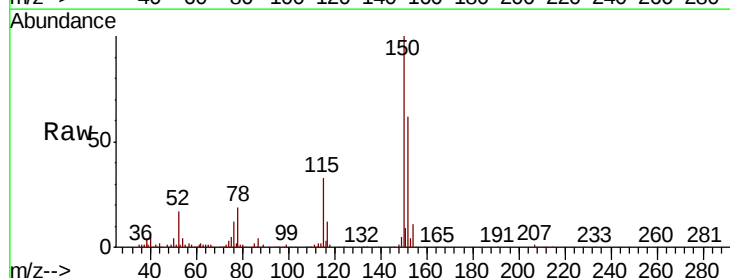
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-A

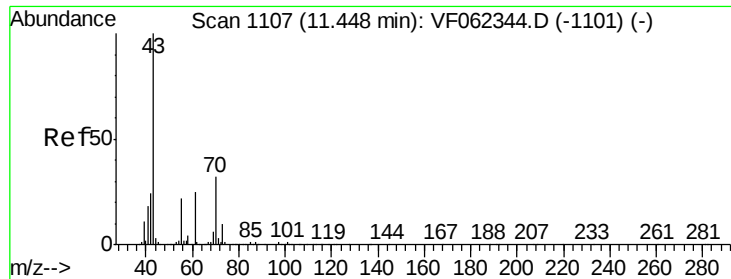
Tgt Ion:117 Resp: 211693
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.2
119 30.8 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VF062401.D
Acq: 9 May 2019 17:46

Tgt Ion:152 Resp: 87278
Ion Ratio Lower Upper
152 100
115 56.0 26.4 79.2
150 156.9 0.0 335.0





#74

N-ethyl acetate

Concen: 1.384 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

Instrument :

MSVOA_F

ClientSampleID :

CL-02-050719-A

Tgt Ion: 43 Resp: 1537

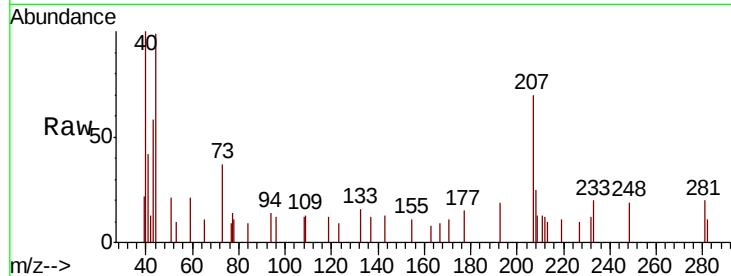
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 18.3 17.8 26.6

61 0.0 20.2 30.2#

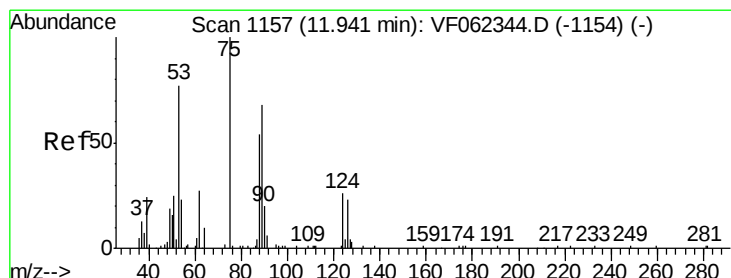
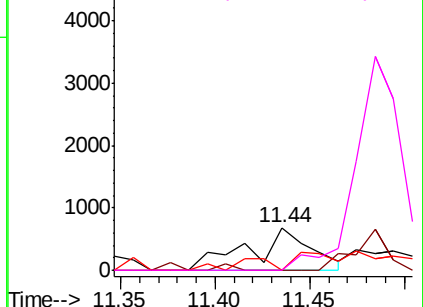
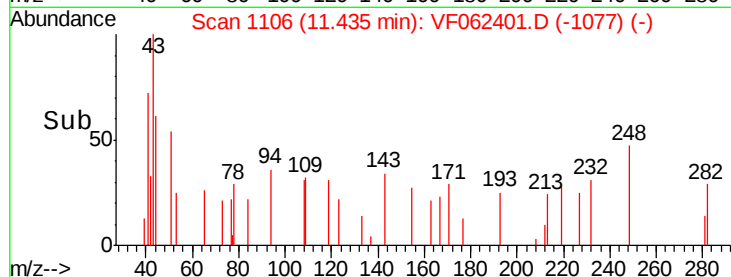


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.984 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062401.D

Acq: 9 May 2019 17:46

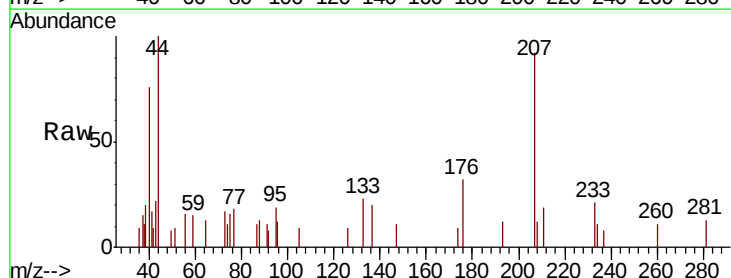
Tgt Ion: 75 Resp: 461

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 14.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

