

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051019\
 Data File : VF062424.D
 Acq On : 10 May 2019 15:35
 Operator : FY/SY
 Sample : K2641-07RE
 Misc : 6.20g/5mL/MSVOA_F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: May 10 16:00:57 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	5.06	168	383779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	540645	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	388601	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	210213	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	208788	57.57	ug/l	0.02
Spiked Amount 50.000			Recovery	=	115.14%	
35) Dibromofluoromethane	4.31	113	242601	56.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.64%	
50) Toluene-d8	7.72	98	455090	43.65	ug/l	0.02
Spiked Amount 50.000			Recovery	=	87.30%	
62) 4-Bromofluorobenzene	11.50	95	204221	43.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.82%	

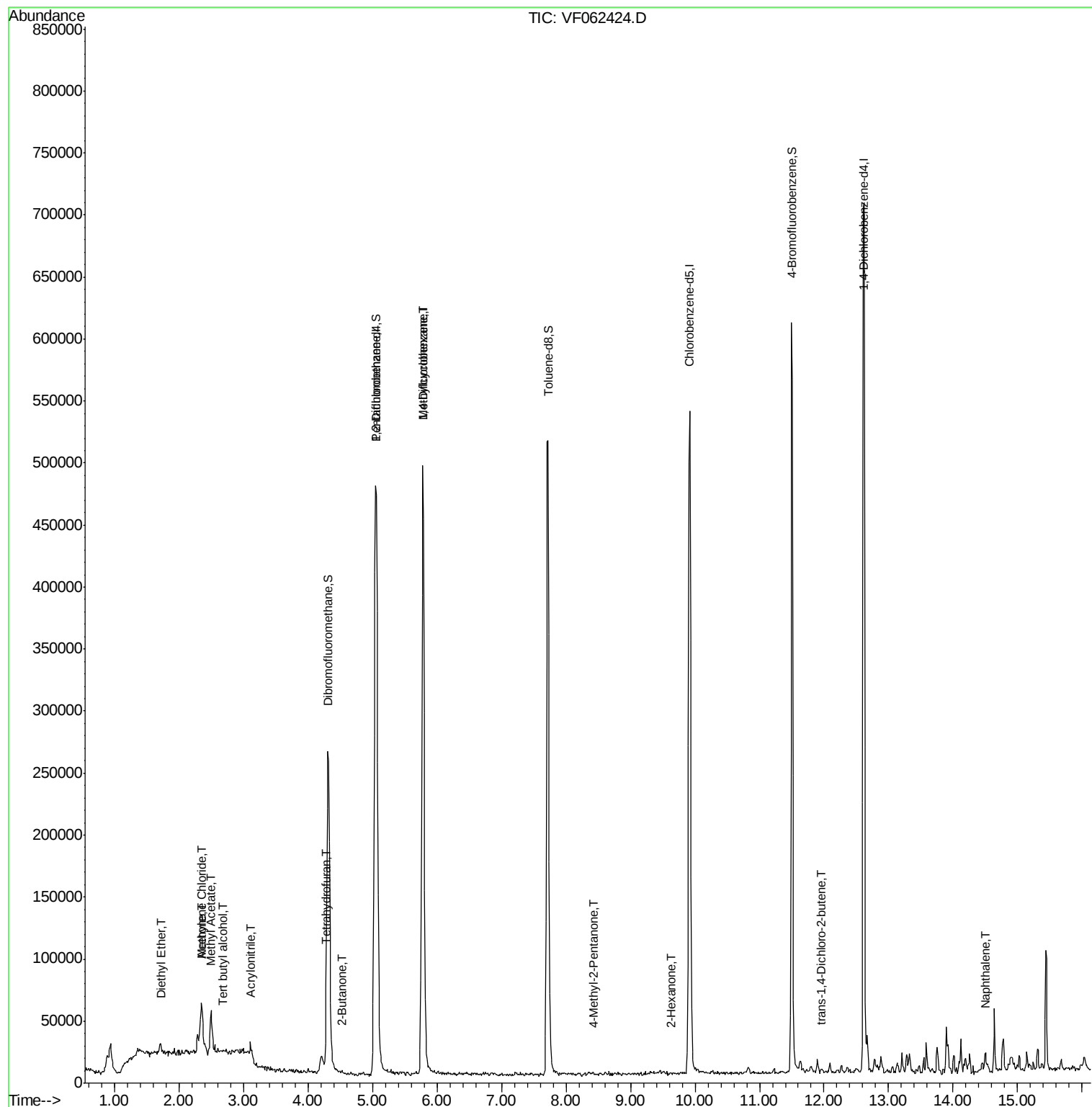
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	583	Below Cal	#	6
8) Diethyl Ether	1.71	74	3154	3.438	ug/l	89
11) Tert butyl alcohol	2.68	59	1297	6.327	ug/l #	70
13) Acrolein	2.10	56	620	Below Cal	#	60
15) Acrylonitrile	3.11	53	755	1.944	ug/l #	29
16) Acetone	2.35	43	40492	55.190	ug/l	96
18) Methyl Acetate	2.50	43	15918	9.350	ug/l #	60
20) Methylene Chloride	2.35	84	14239	5.364	ug/l #	92
25) 2-Butanone	4.52	43	1309	1.420	ug/l #	31
29) Tetrahydrofuran	4.27	42	1320	3.116	ug/l #	62
37) Ethyl Acetate	4.28	43	545	Below Cal	#	73
38) Carbon Tetrachloride	4.15	117	89	Below Cal	#	44
39) Methylcyclohexane	5.78	83	7695	1.652	ug/l #	43
49) 1,4-Dioxane	6.93	88	86	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	1771	1.106	ug/l #	59
59) 2-Hexanone	9.63	43	1528	1.380	ug/l #	49
81) trans-1,4-Dichloro-2-buten	11.95	75	798	1.426	ug/l #	28
95) Naphthalene	14.49	128	8120	1.041	ug/l #	74

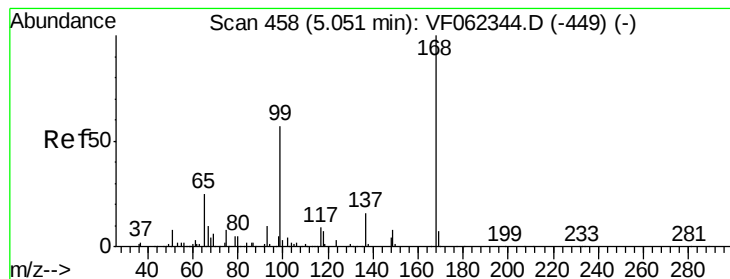
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

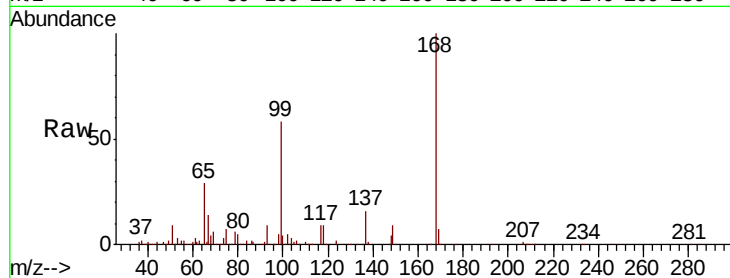
CL-02-050719-DRE

Tgt Ion:168 Resp: 383779

Ion Ratio Lower Upper

168 100

99 58.1 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

150000

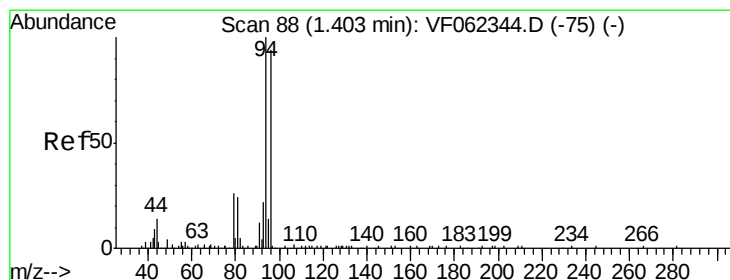
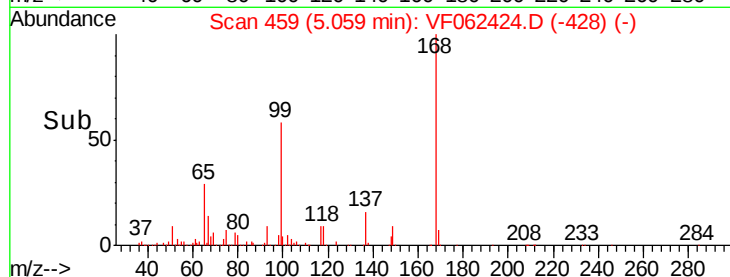
100000

50000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062424.D

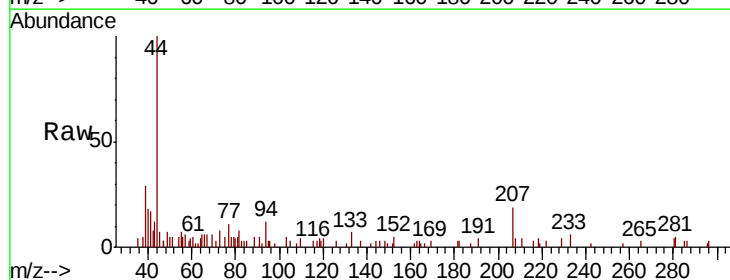
Acq: 10 May 2019 15:35

Tgt Ion: 94 Resp: 583

Ion Ratio Lower Upper

94 100

96 3.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.40

600

500

400

300

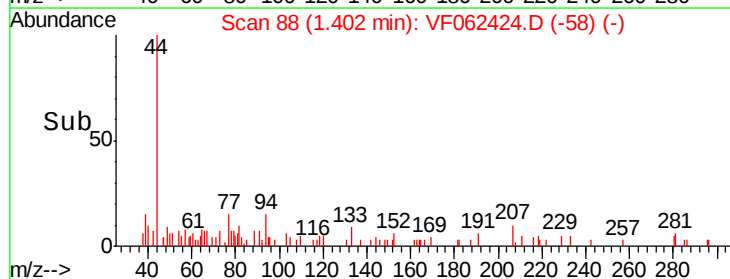
200

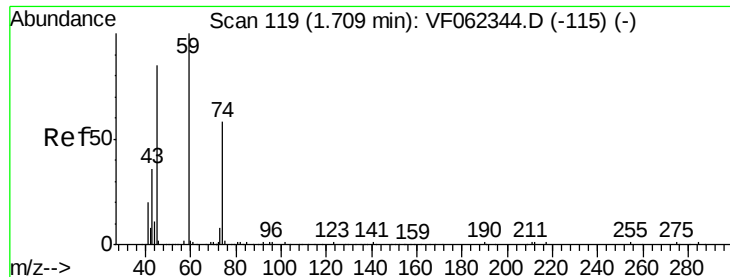
100

0

1.40 1.45

Time-->





#8

Diethyl Ether

Concen: 3.438 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

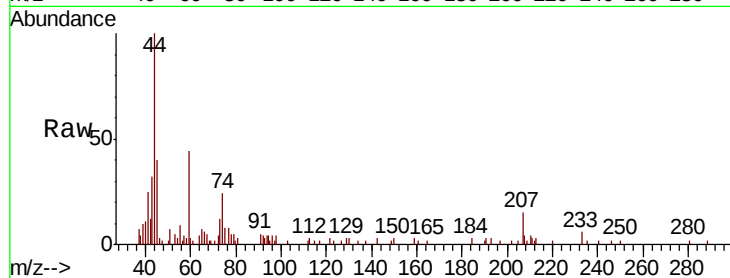
CL-02-050719-DRE

Tgt Ion: 74 Resp: 3154

Ion Ratio Lower Upper

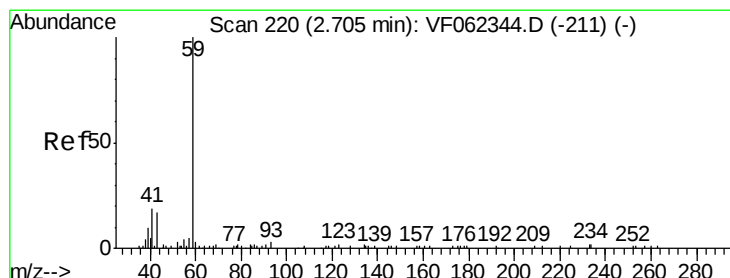
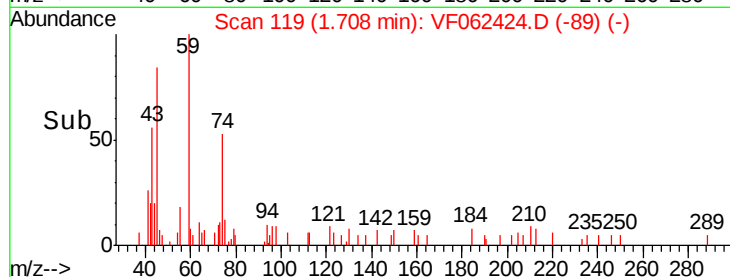
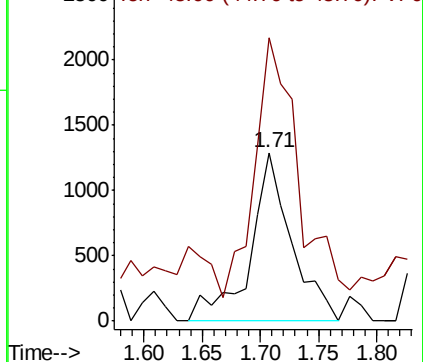
74 100

45 161.2 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: 6.327 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.02 min

Lab File: VF062424.D

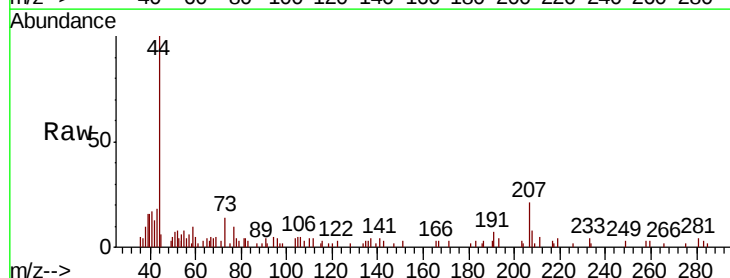
Acq: 10 May 2019 15:35

Tgt Ion: 59 Resp: 1297

Ion Ratio Lower Upper

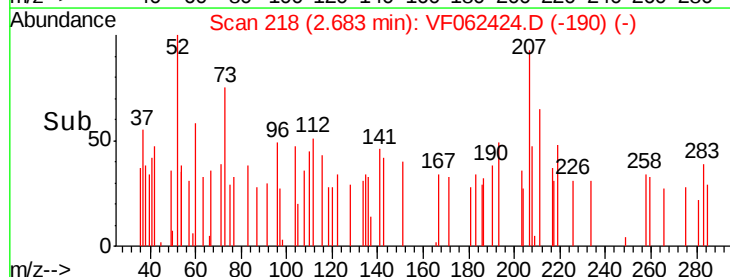
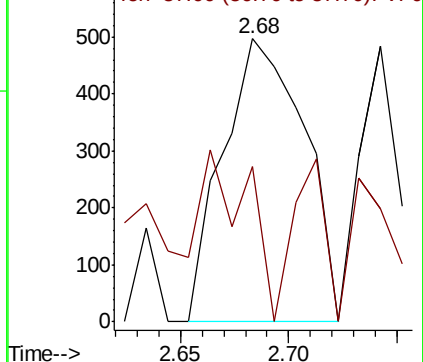
59 100

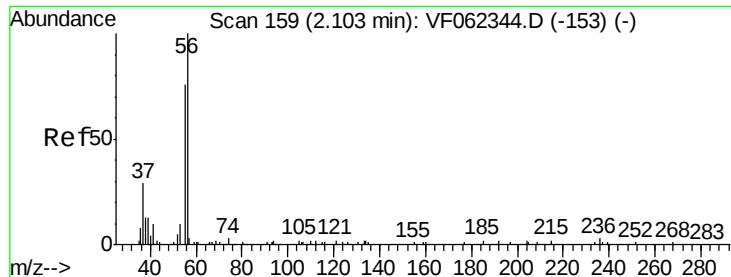
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

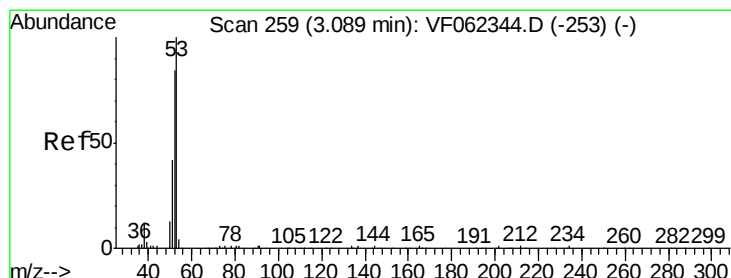
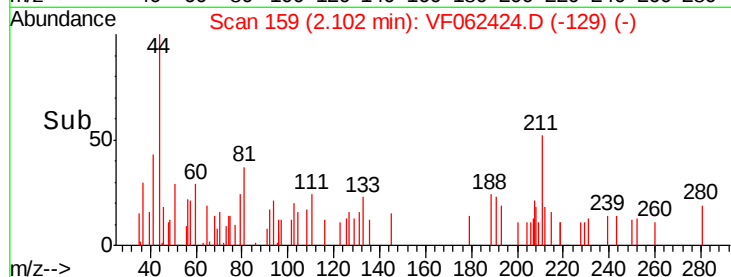
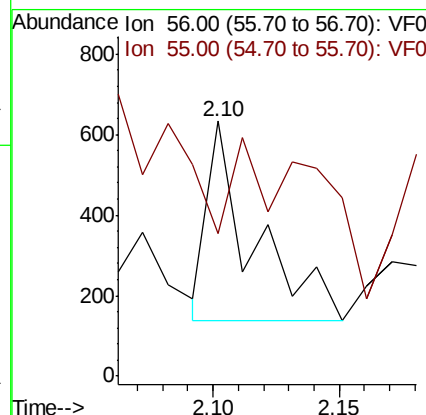
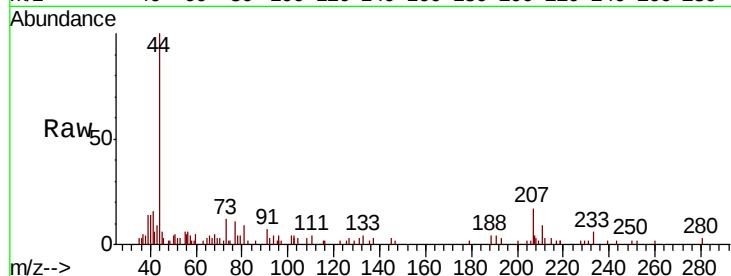




#13
Acrolein
Concen: Below Cal
RT: 2.10 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

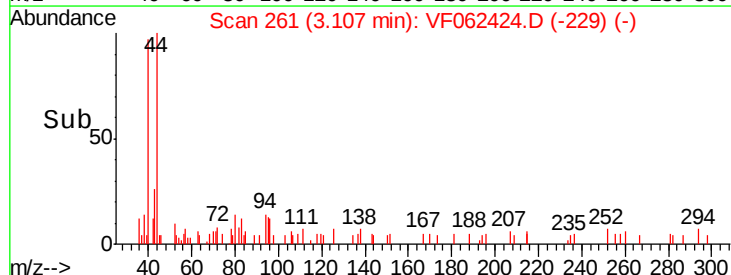
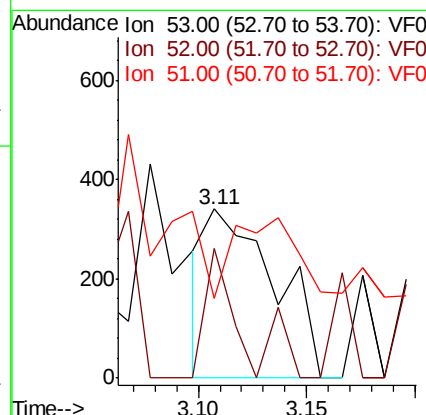
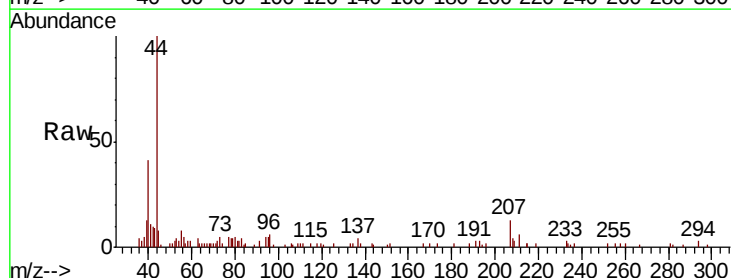
Instrument :
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CL-02-050719-DRE

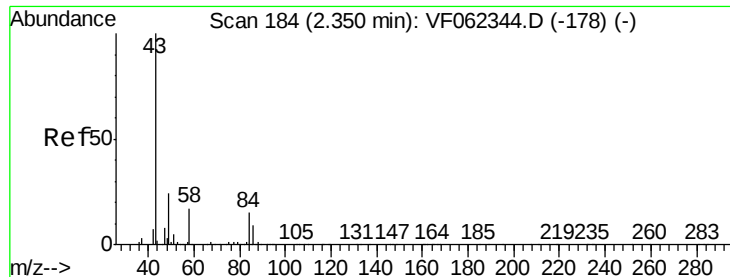
Tgt Ion: 56 Resp: 620
Ion Ratio Lower Upper
56 100
55 39.4 58.4 87.6#



#15
Acrylonitrile
Concen: 1.944 ug/l
RT: 3.11 min Scan# 261
Delta R.T. 0.02 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 53 Resp: 755
Ion Ratio Lower Upper
53 100
52 28.5 77.2 115.8#
51 0.0 40.6 61.0#

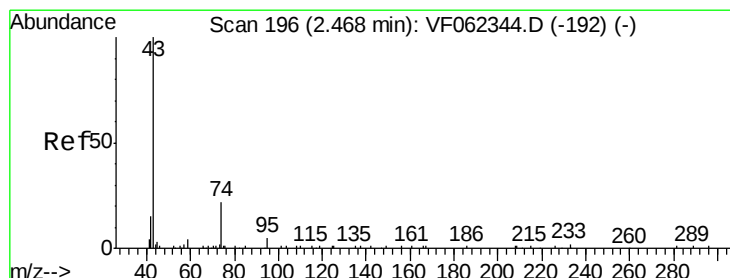
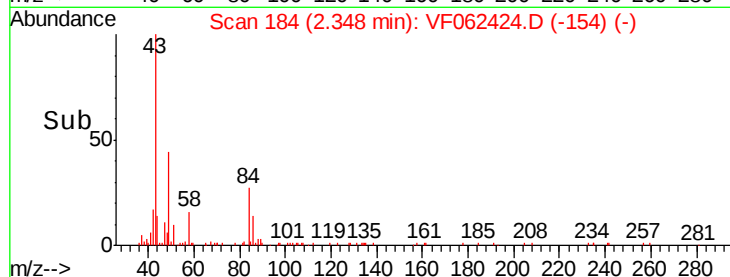
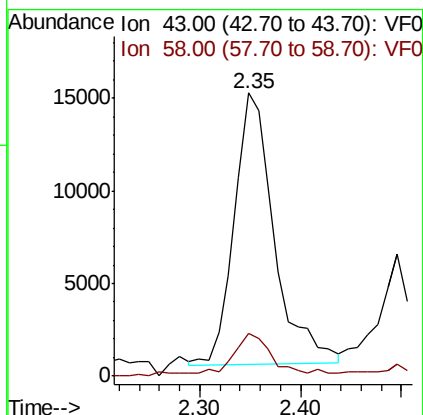
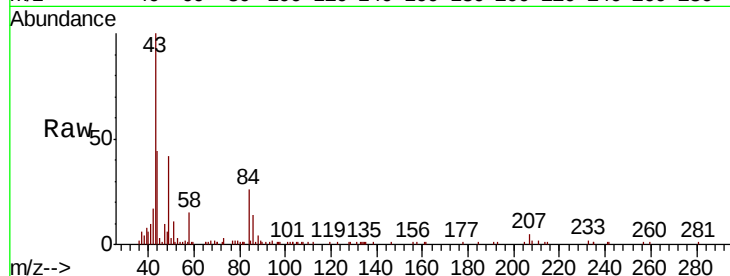




#16
Acetone
Concen: 55.190 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.00 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

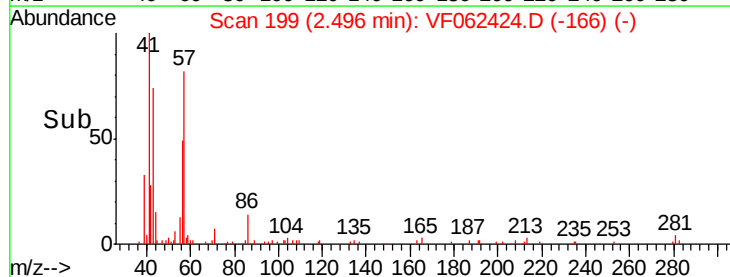
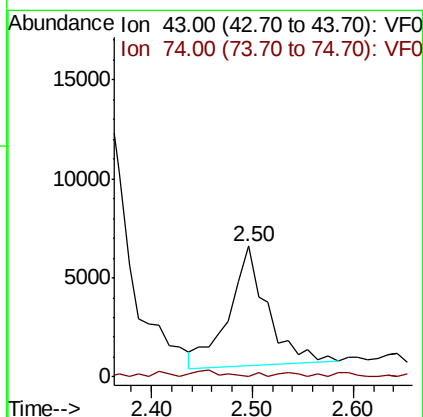
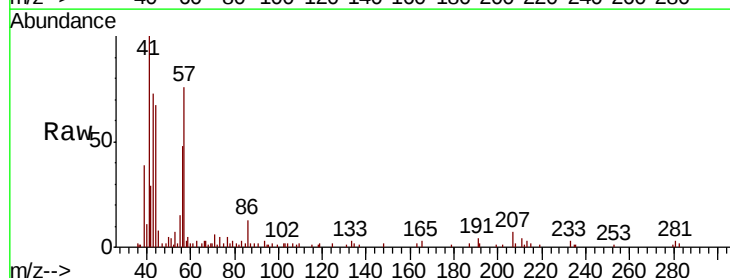
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-DRE

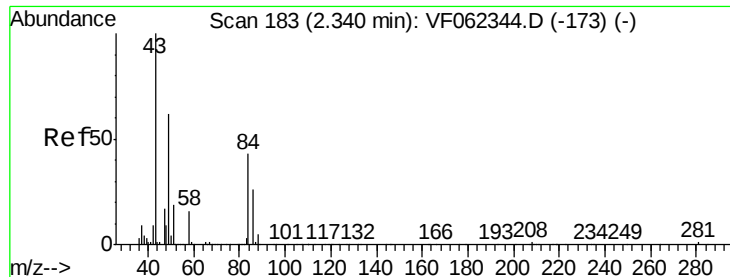
Tgt Ion: 43 Resp: 40492
Ion Ratio Lower Upper
43 100
58 14.8 13.1 19.7



#18
Methyl Acetate
Concen: 9.350 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 43 Resp: 15918
Ion Ratio Lower Upper
43 100
74 0.7 15.0 22.4#

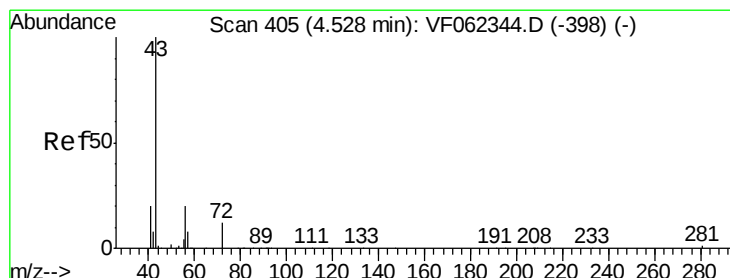
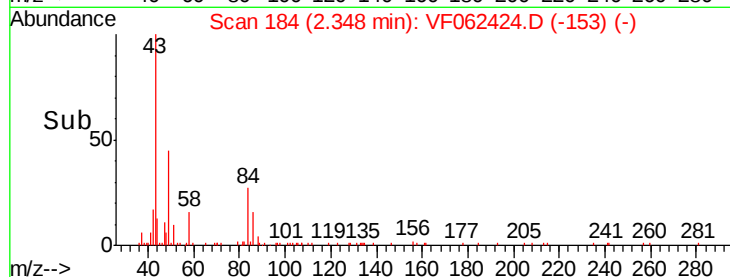
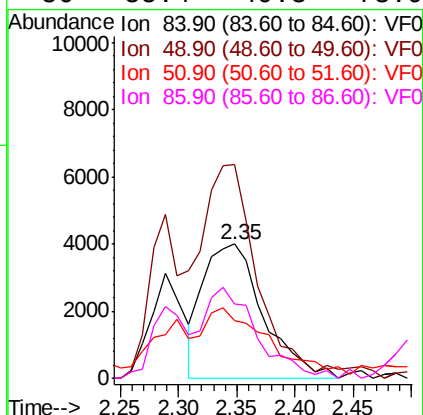
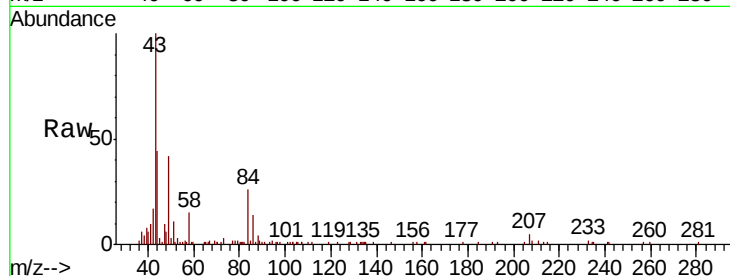




#20
Methylene Chloride
Concen: 5.364 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

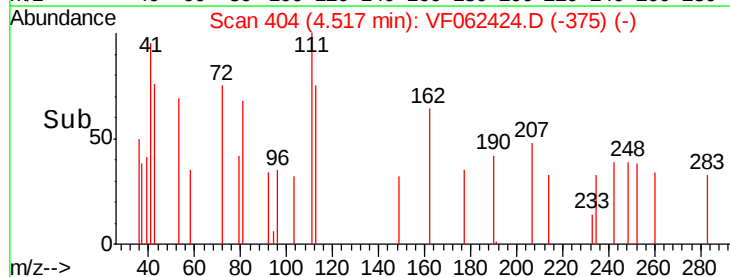
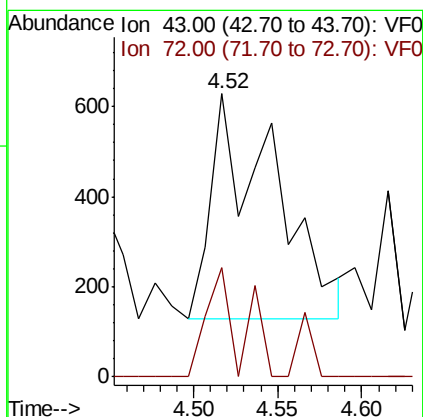
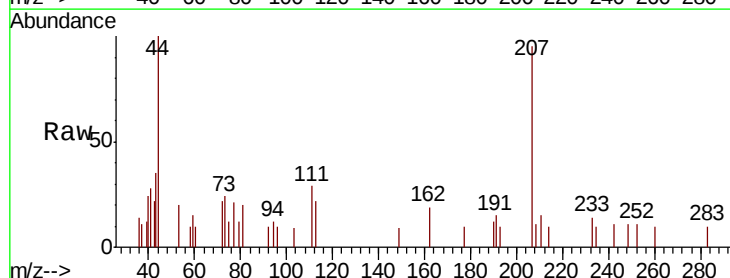
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-DRE

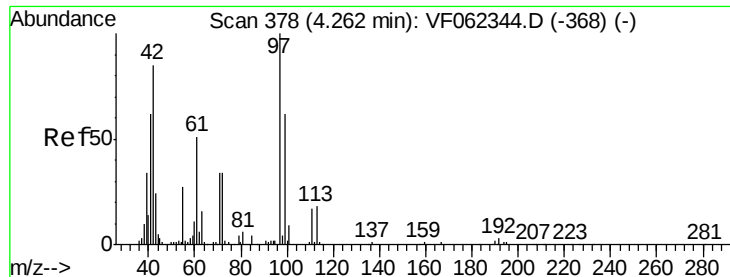
Tgt Ion: 84 Resp: 14239
Ion Ratio Lower Upper
84 100
49 153.1 117.5 176.3
51 33.9 37.0 55.4#
86 55.4 49.3 73.9



#25
2-Butanone
Concen: 1.420 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
72 48.4 14.2 21.4#





#29

Tetrahydrofuran

Concen: 3.116 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-DRE

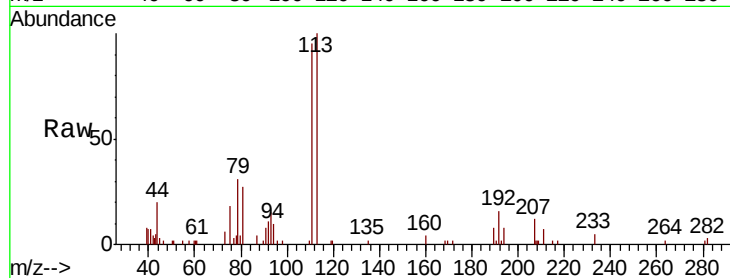
Tgt Ion: 42 Resp: 1320

Ion Ratio Lower Upper

42 100

72 27.5 31.4 47.0#

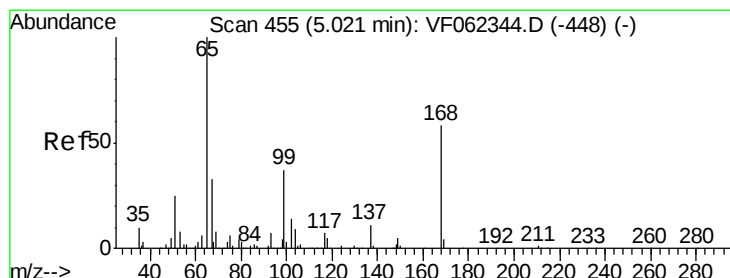
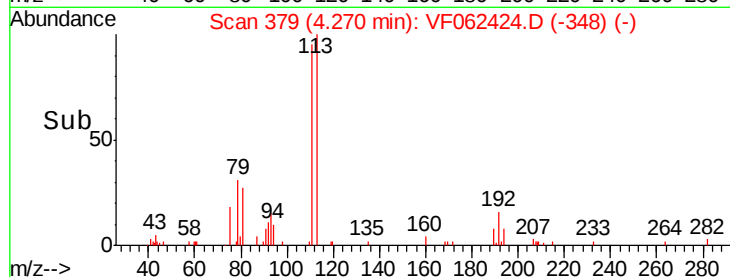
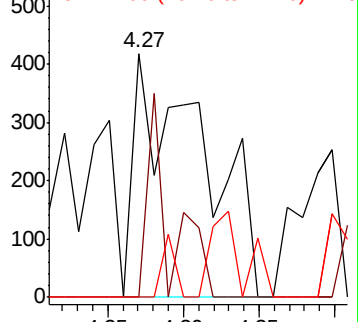
71 4.8 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 57.567 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062424.D

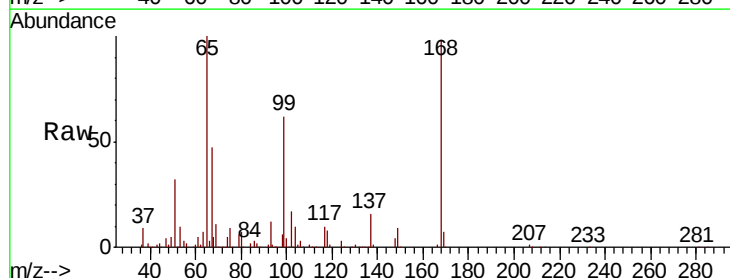
Acq: 10 May 2019 15:35

Tgt Ion: 65 Resp: 208788

Ion Ratio Lower Upper

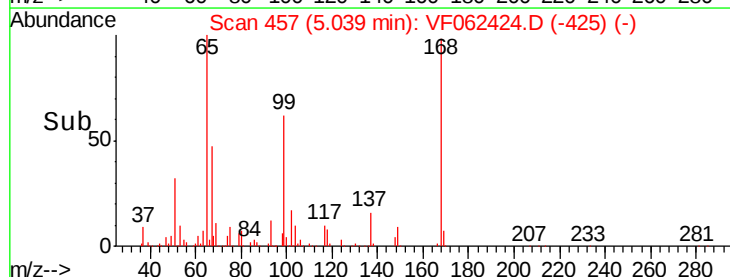
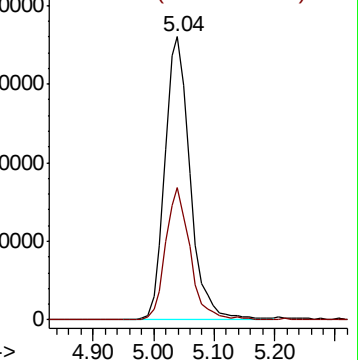
65 100

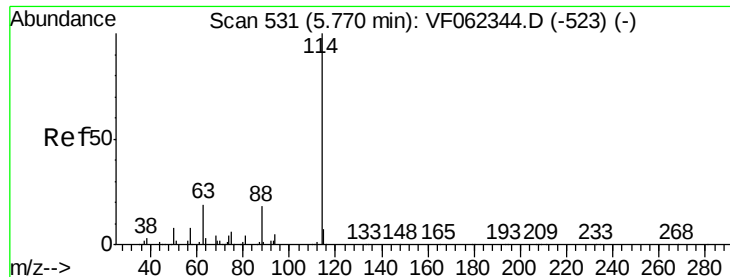
67 45.0 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

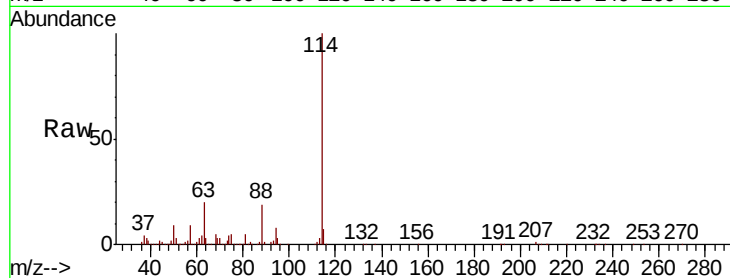




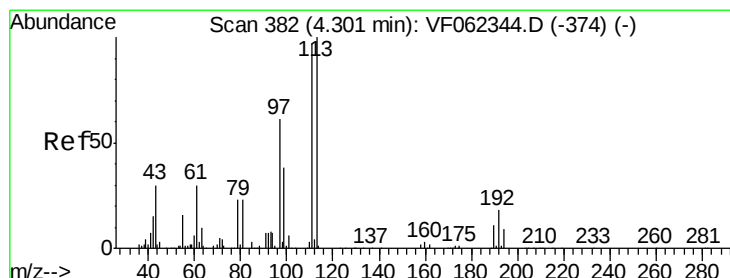
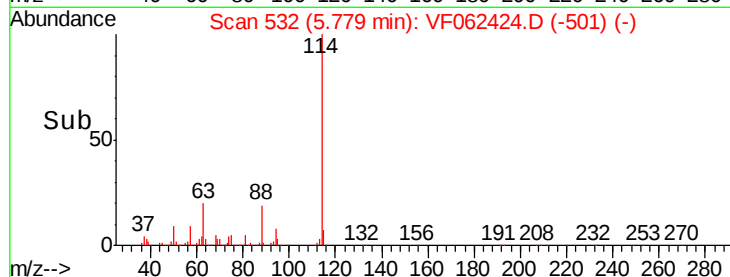
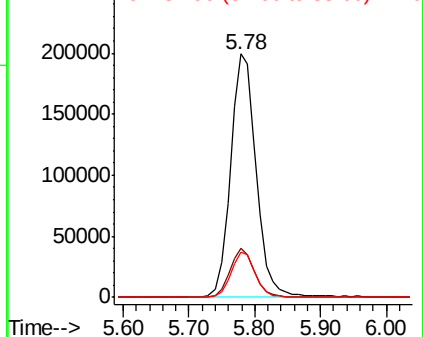
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062424.D
 Acq: 10 May 2019 15:35

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

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	37.4
88	18.6	0.0	36.4

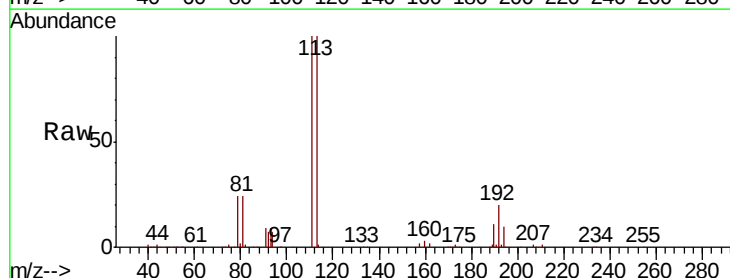


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 87.90 (87.60 to 88.60): VF0

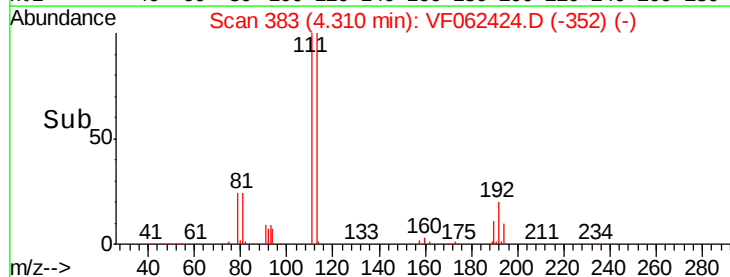
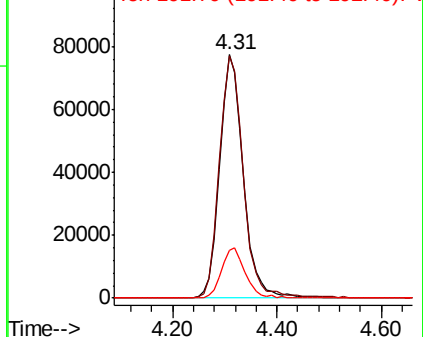


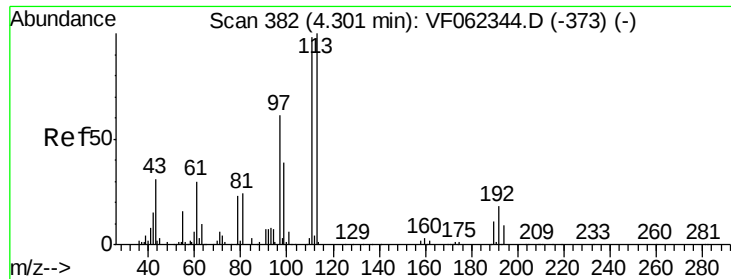
#35
 Dibromofluoromethane
 Concen: 56.324 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062424.D
 Acq: 10 May 2019 15:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.0	79.4	119.0
192	20.9	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

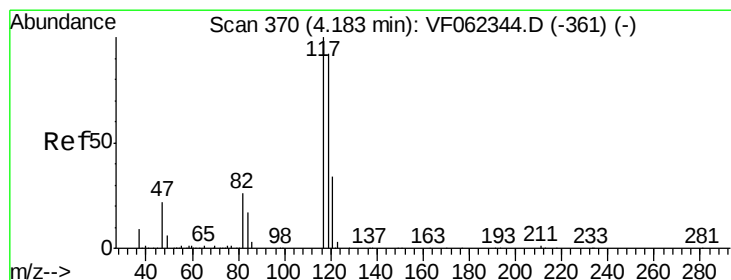
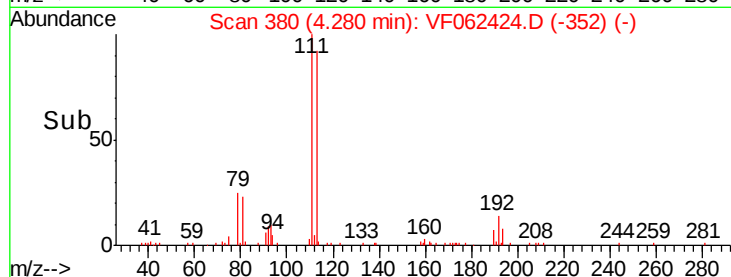
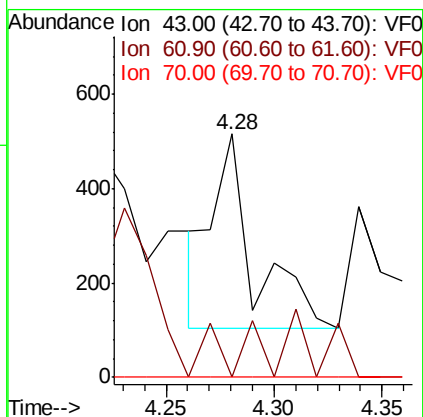
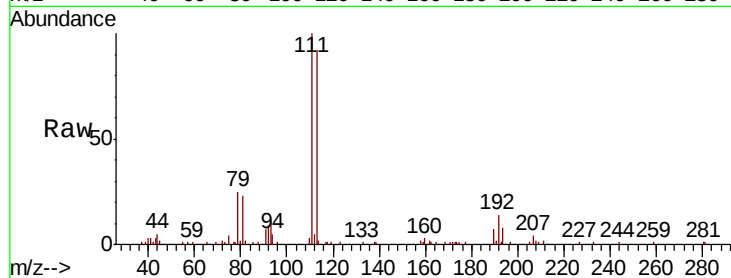




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

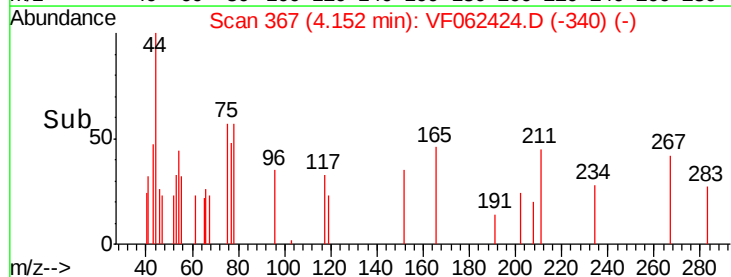
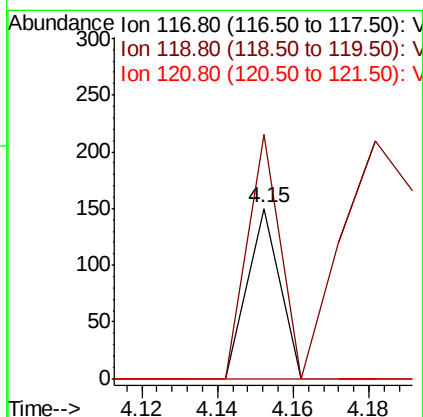
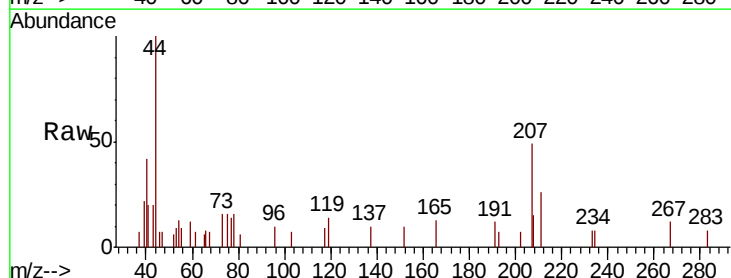
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-DRE

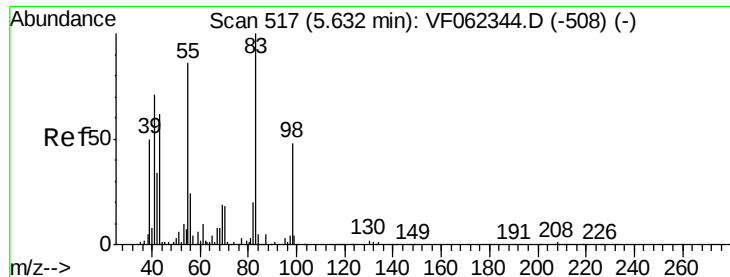
Tgt Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
61 13.0 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.15 min Scan# 367
Delta R.T. -0.03 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 117 Resp: 89
Ion Ratio Lower Upper
117 100
119 143.3 73.4 110.2#
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 1.652 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.15 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-DRE

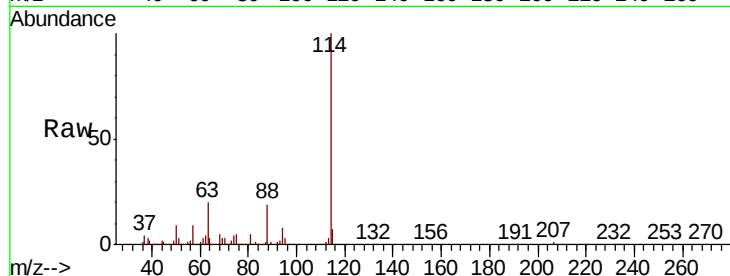
Tgt Ion: 83 Resp: 7695

Ion Ratio Lower Upper

83 100

55 41.6 69.0 103.6#

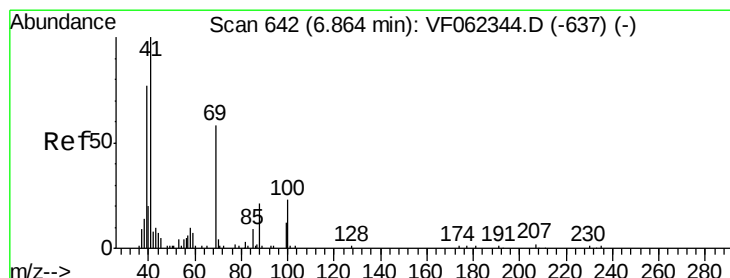
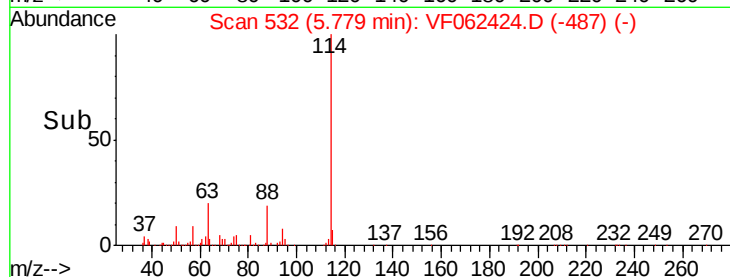
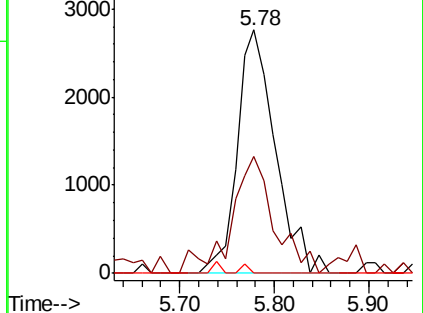
98 0.0 38.6 58.0#



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: 6.93 min Scan# 649

Delta R.T. 0.07 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

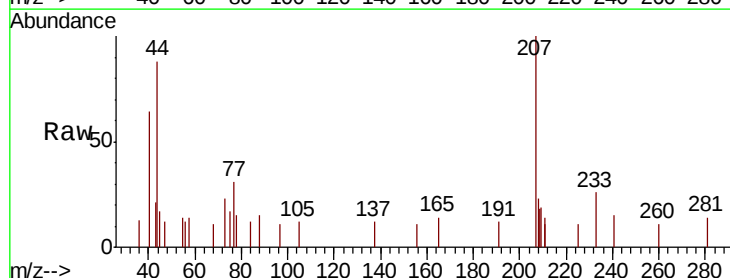
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 512.8 55.6 83.4#

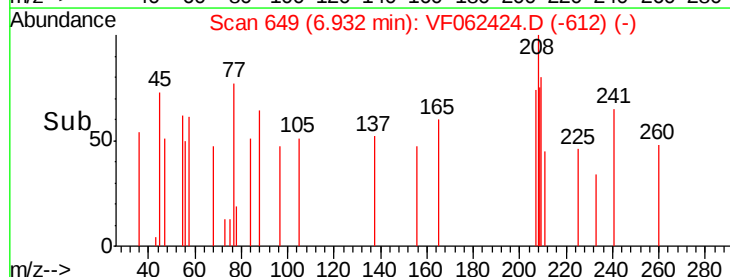
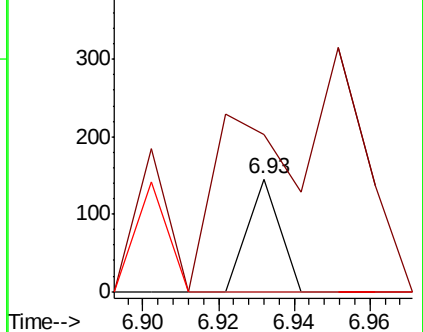
58 0.0 52.8 79.2#

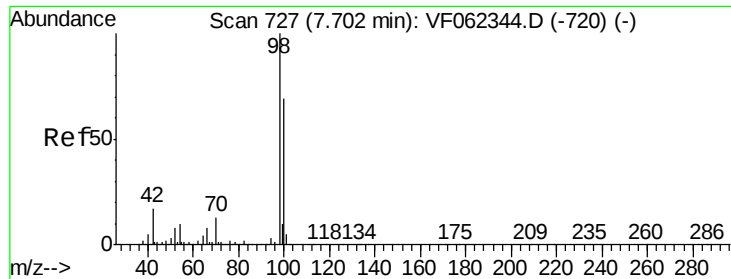


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

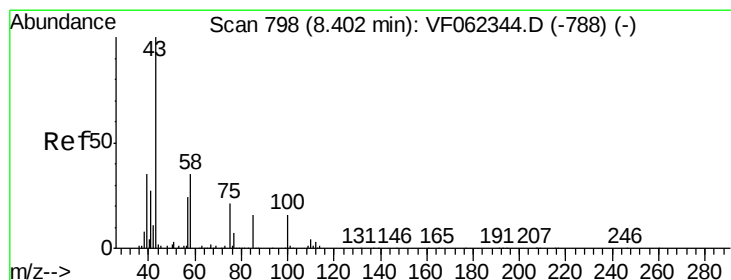
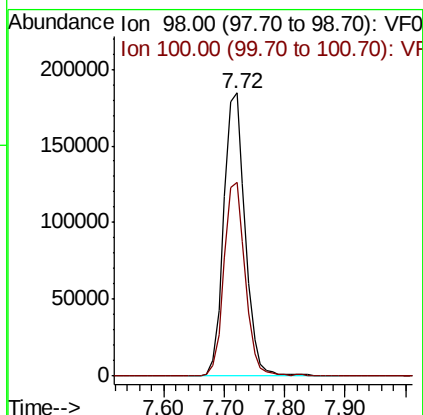
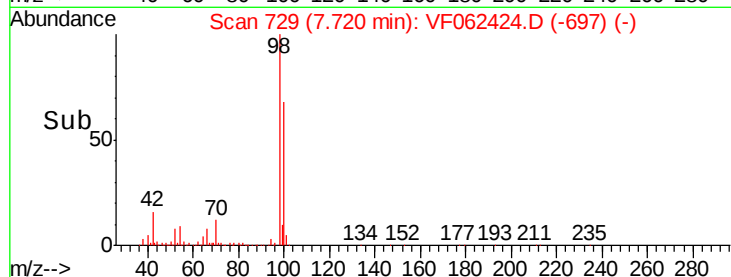
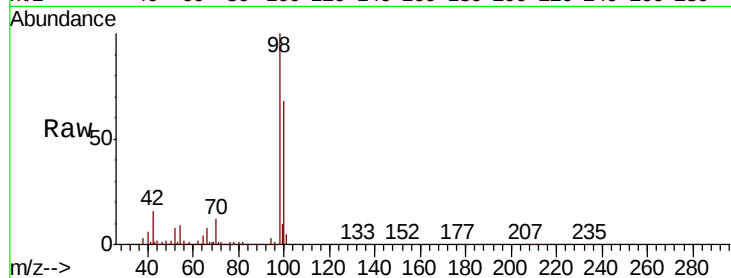




#50
Toluene-d8
Concen: 43.648 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

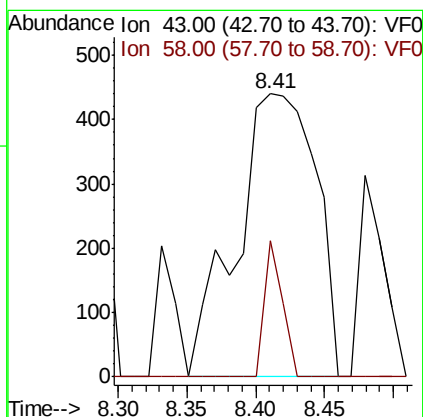
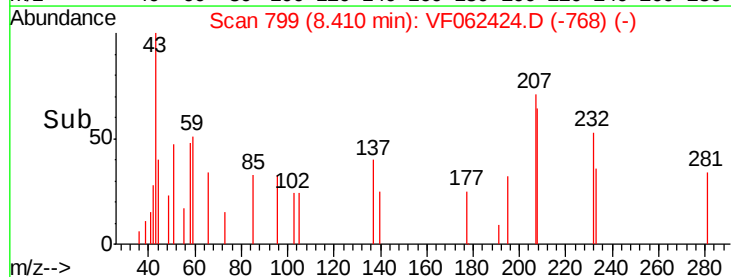
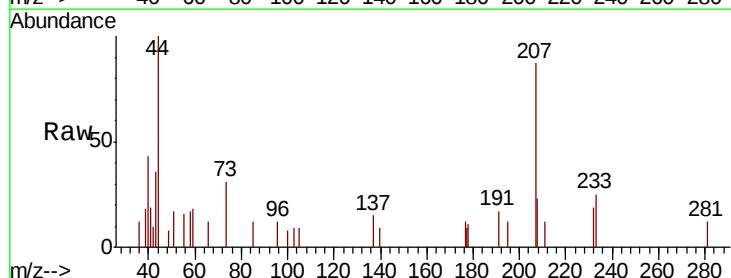
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-DRE

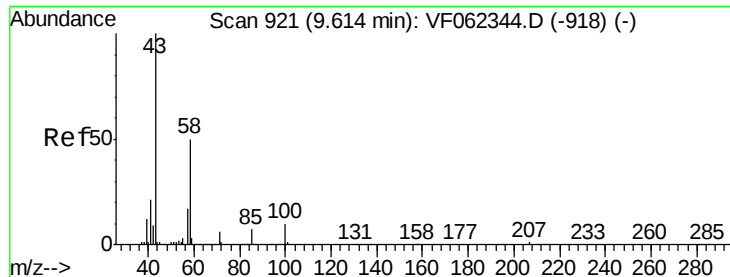
Tgt Ion: 98 Resp: 455090
Ion Ratio Lower Upper
98 100
100 68.0 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 1.106 ug/l
RT: 8.41 min Scan# 799
Delta R.T. 0.01 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 43 Resp: 1771
Ion Ratio Lower Upper
43 100
58 10.8 27.8 41.6#

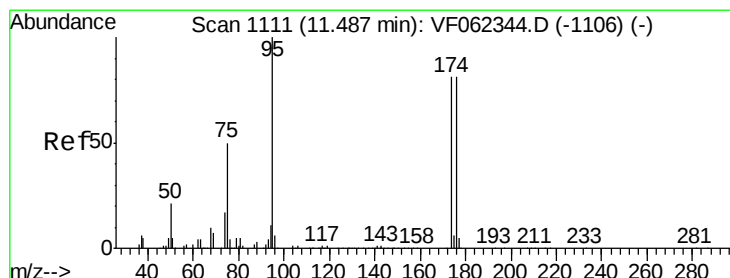
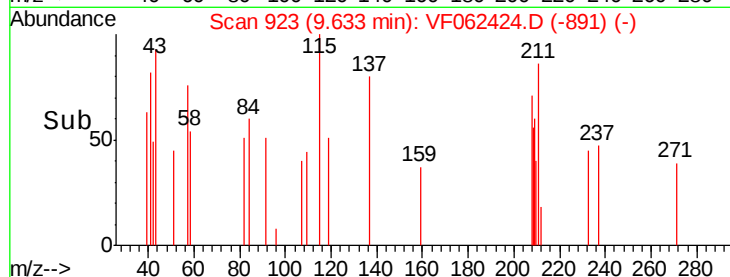
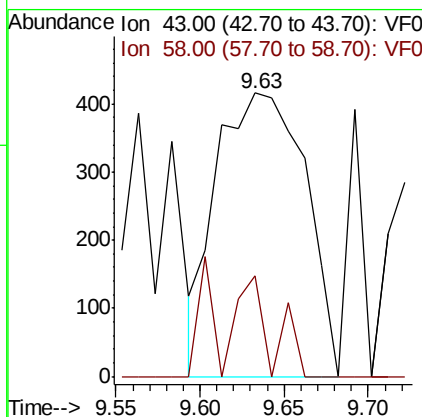
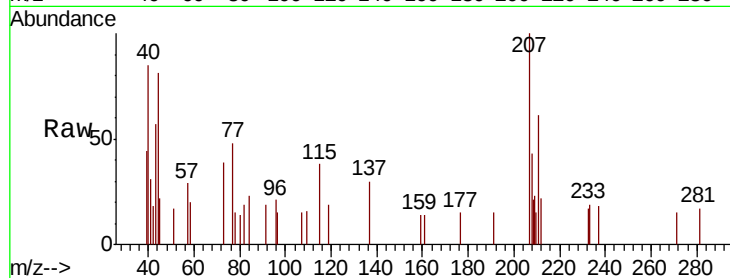




#59
2-Hexanone
Concen: 1.380 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

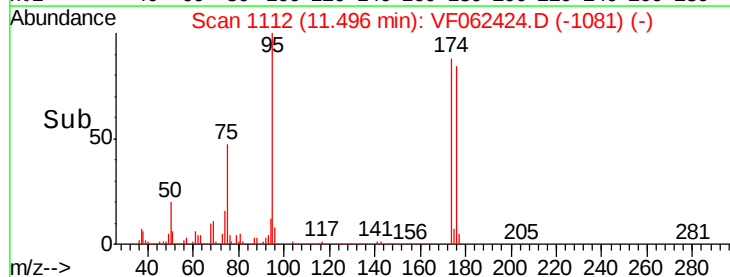
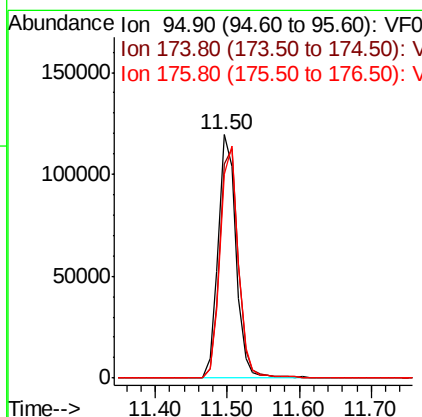
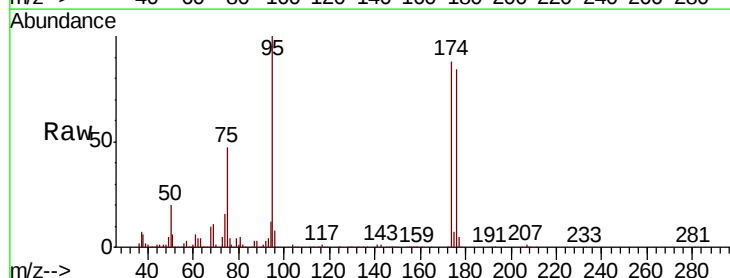
Instrument :
MSVOA_F
ClientSampleId :
CL-02-050719-DRE

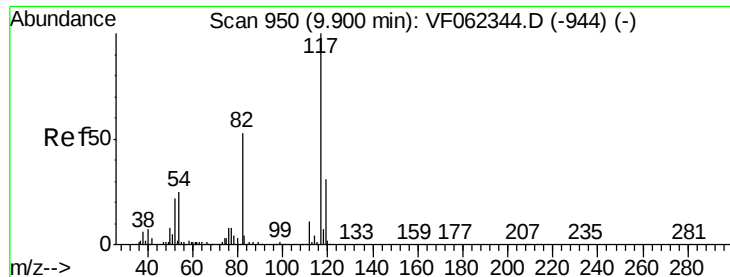
Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
58 14.3 24.3 73.0#



#62
4-Bromofluorobenzene
Concen: 43.415 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion: 95 Resp: 204221
Ion Ratio Lower Upper
95 100
174 98.1 0.0 191.8
176 97.0 0.0 193.2

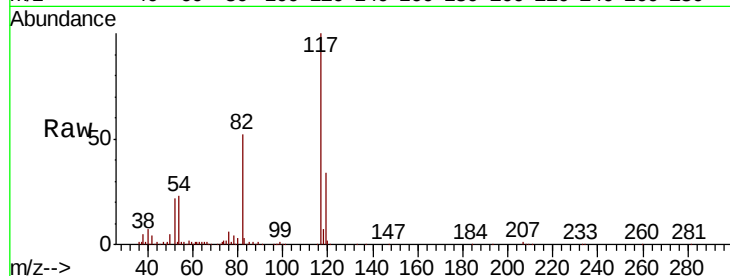




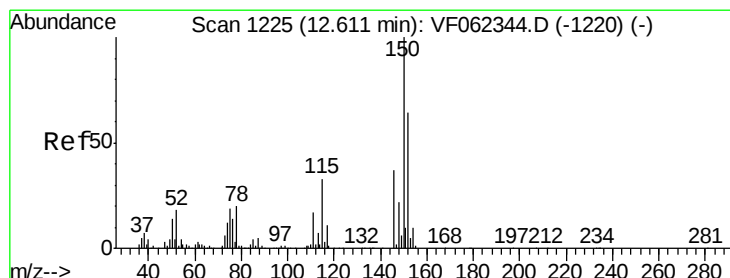
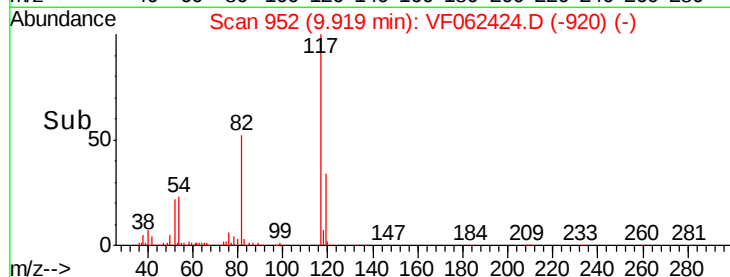
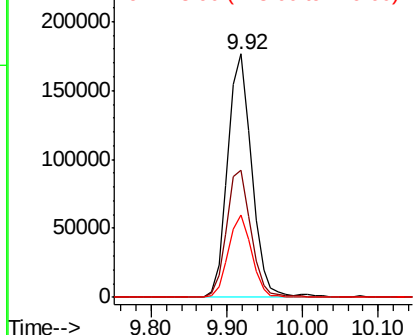
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

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

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.2	63.2
119	33.7	25.0	37.4

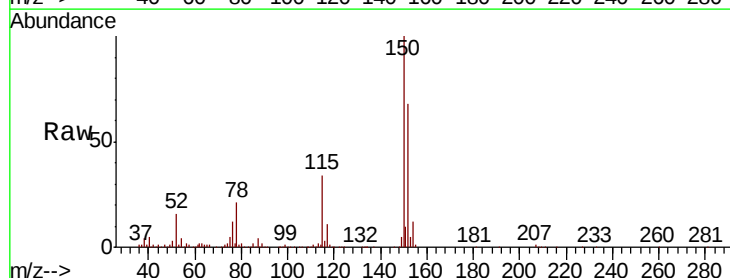


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

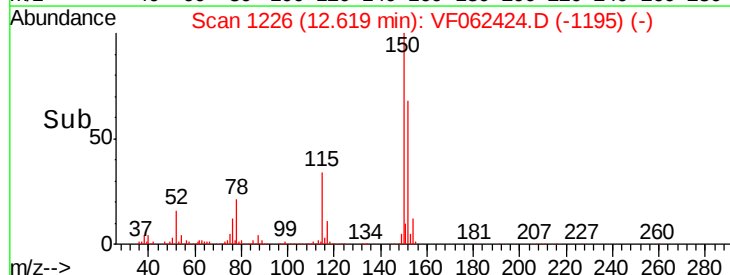
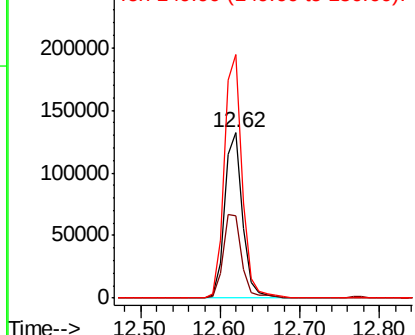


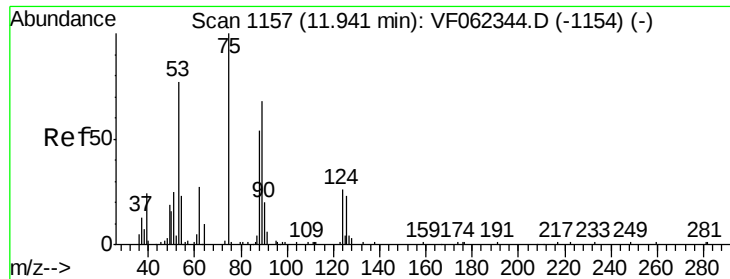
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062424.D
Acq: 10 May 2019 15:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.9	26.4	79.2
150	147.5	0.0	335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.426 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

CL-02-050719-DRE

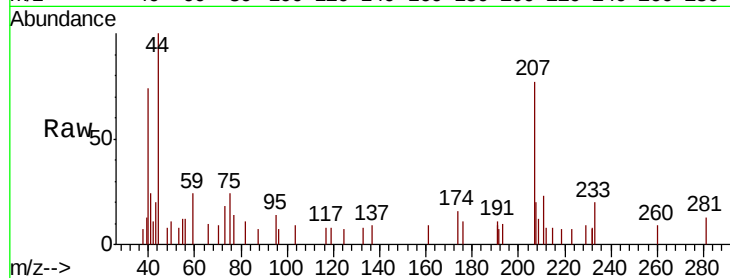
Tgt Ion: 75 Resp: 798

Ion Ratio Lower Upper

75 100

53 22.6 71.9 107.9#

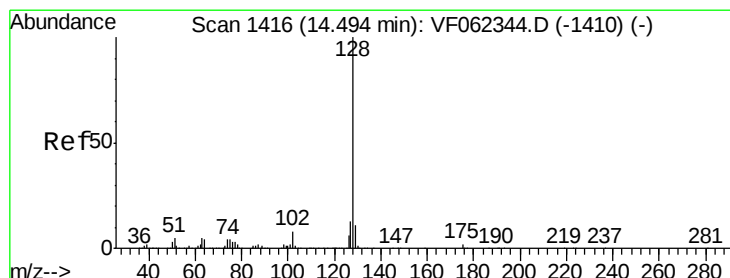
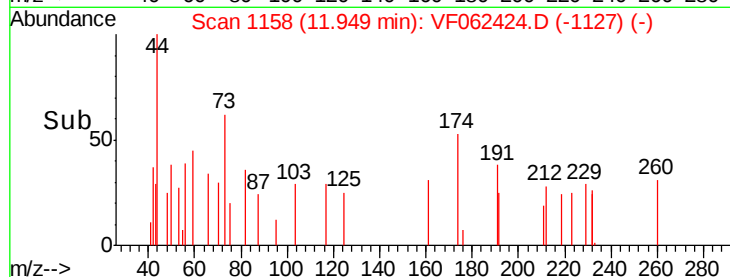
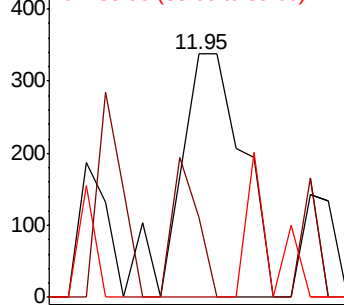
89 0.0 0.0 0.0



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



#95

Naphthalene

Concen: 1.041 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062424.D

Acq: 10 May 2019 15:35

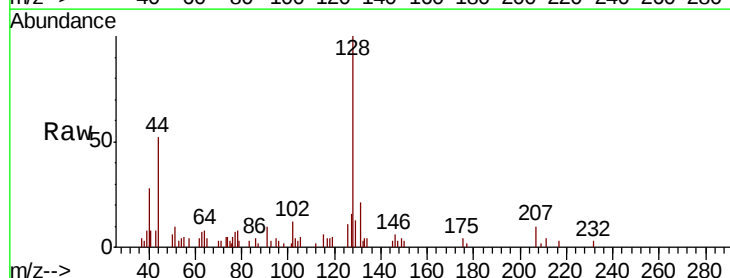
Tgt Ion: 128 Resp: 8120

Ion Ratio Lower Upper

128 100

127 14.5 10.5 15.7

129 30.4 8.6 12.8#



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

