

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062483.D
 Acq On : 12 May 2019 3:23
 Operator : FY/SY
 Sample : K2733-21
 Misc : 6.65g/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS004-0612-01

Quant Time: May 12 03:54:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	223323	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	317410	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	270637	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	149319	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	94665	44.85	ug/l	0.02
Spiked Amount			Recovery	=	89.70%	
35) Dibromofluoromethane	4.33	113	122187	48.32	ug/l	0.02
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	7.73	98	206741	33.77	ug/l	0.02
Spiked Amount			Recovery	=	67.54%	
62) 4-Bromofluorobenzene	11.50	95	93460	33.84	ug/l	0.01
Spiked Amount			Recovery	=	67.68%	

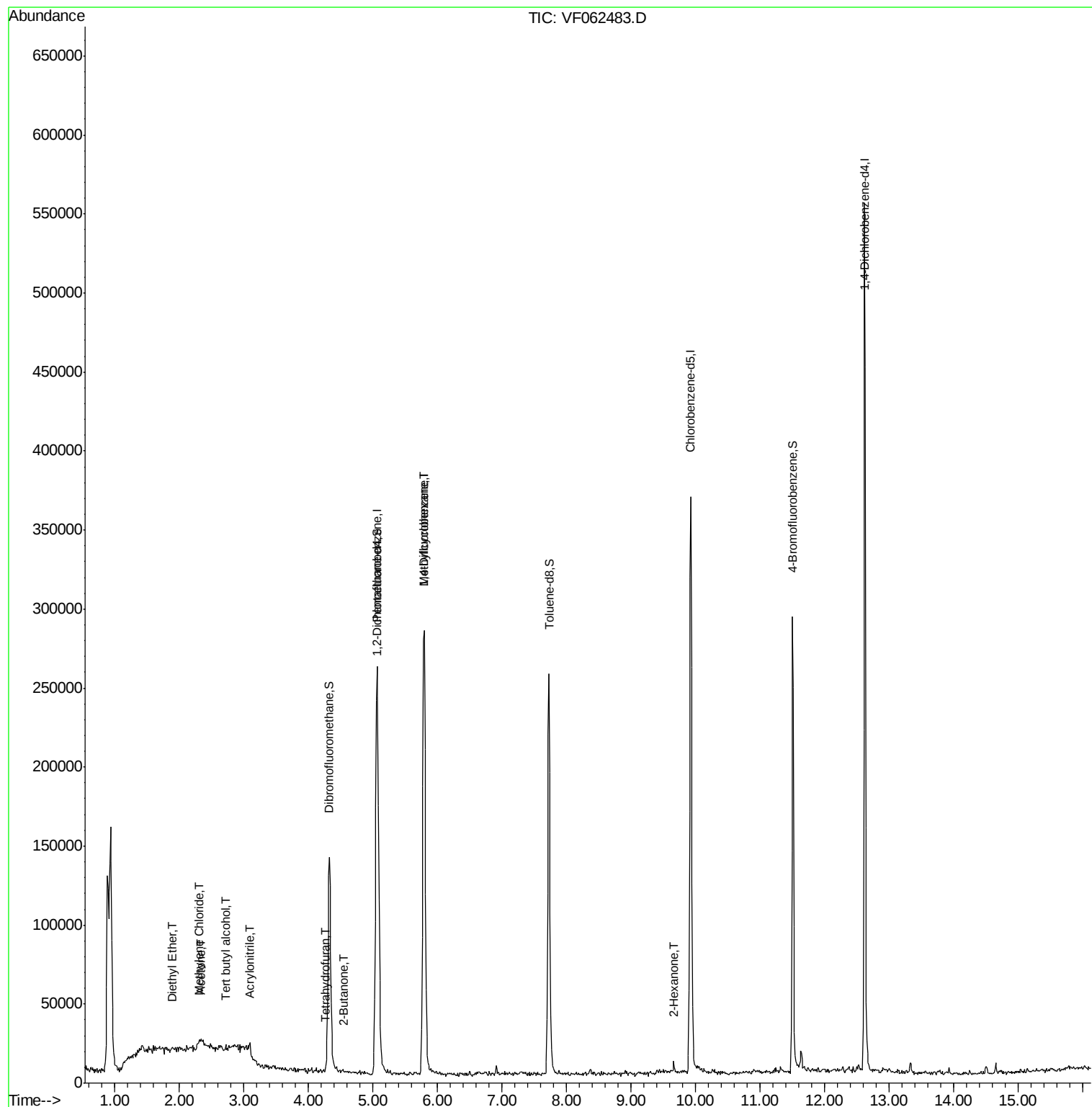
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	885	Below Cal	#	40
8) Diethyl Ether	1.90	74	597	1.118	ug/l	97
11) Tert butyl alcohol	2.72	59	504	4.225	ug/l #	1
13) Acrolein	2.11	56	209	Below Cal	#	1
15) Acrylonitrile	3.09	53	803	3.554	ug/l #	10
16) Acetone	2.34	43	7214	16.897	ug/l #	82
18) Methyl Acetate	2.46	43	1572	Below Cal	#	58
20) Methylene Chloride	2.29	84	1765	1.143	ug/l #	88
25) 2-Butanone	4.55	43	622	1.160	ug/l #	60
29) Tetrahydrofuran	4.26	42	260	1.055	ug/l #	56
37) Ethyl Acetate	4.35	43	521	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	121	Below Cal	#	53
39) Methylcyclohexane	5.78	83	4458	1.630	ug/l #	42
49) 1,4-Dioxane	6.86	88	73	Below Cal	#	1
59) 2-Hexanone	9.65	43	1382	2.126	ug/l #	36

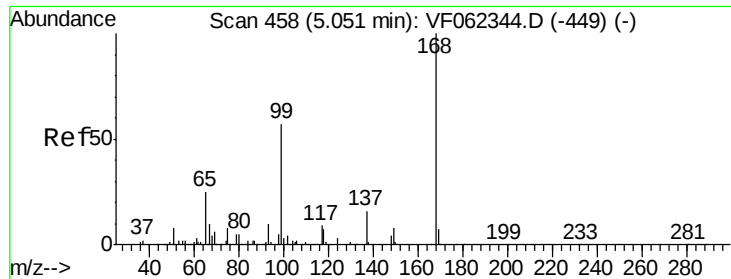
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

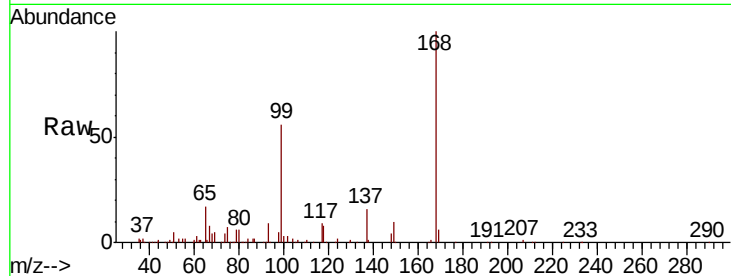
P021-SS004-0612-01

Tot Ion:168 Resp: 223323

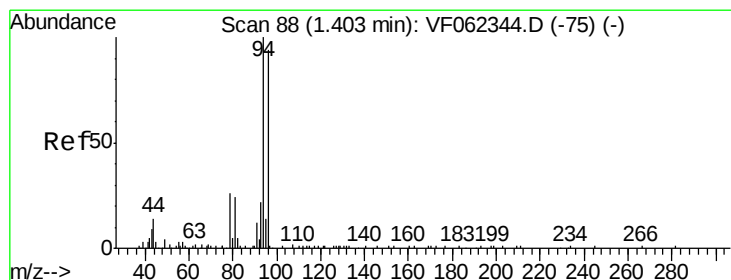
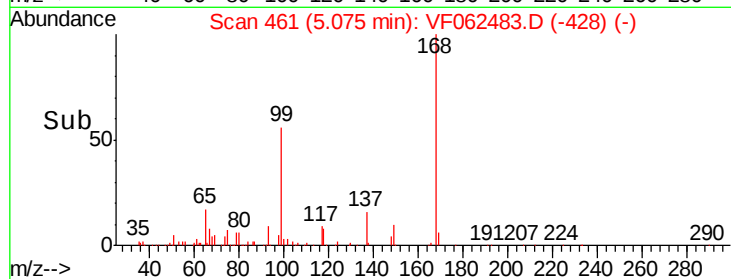
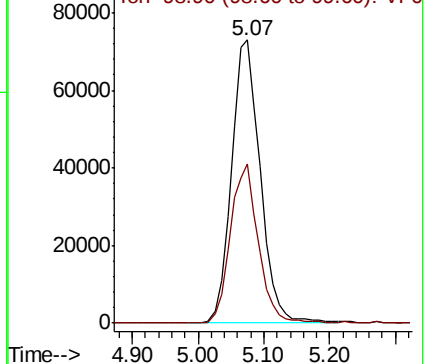
Ion Ratio Lower Upper

168 100

99 56.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062483.D

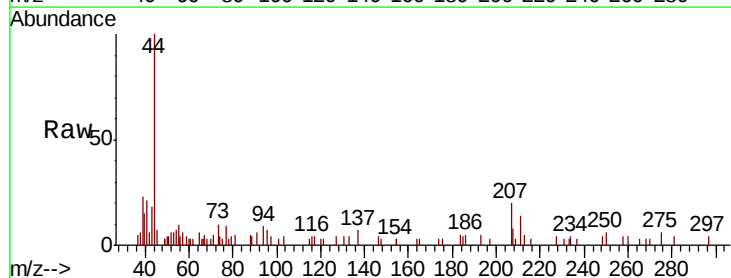
Acq: 12 May 2019 3:23

Tgt Ion: 94 Resp: 885

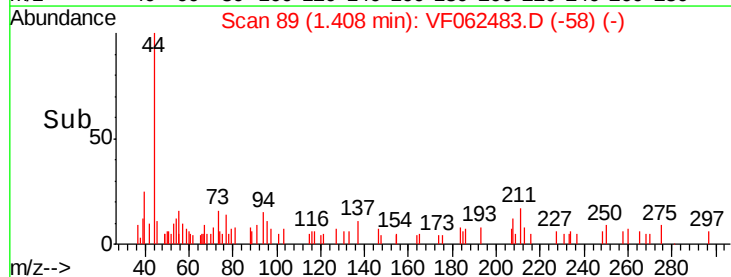
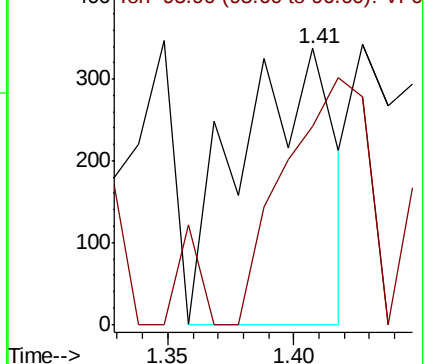
Ion Ratio Lower Upper

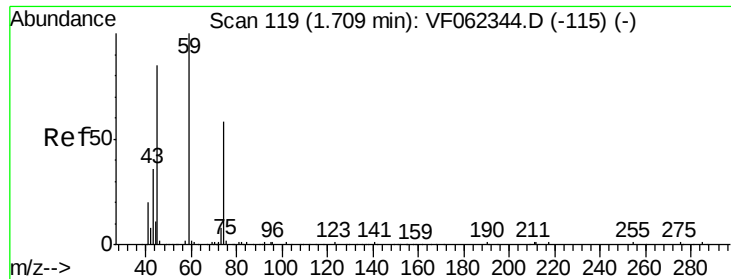
94 100

96 35.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0





#8

Diethyl Ether

Concen: 1.118 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.19 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

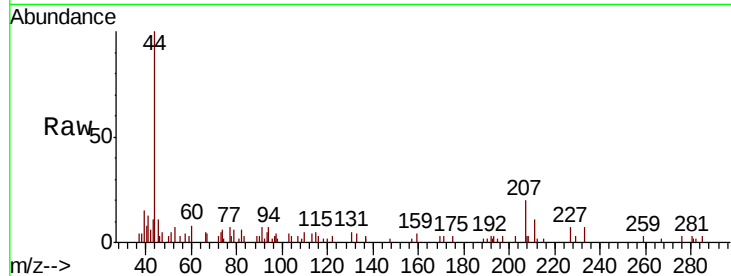
P021-SS004-0612-01

Tot Ion: 74 Resp: 597

Ion Ratio Lower Upper

74 100

45 150.9 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

600

500

400

300

200

100

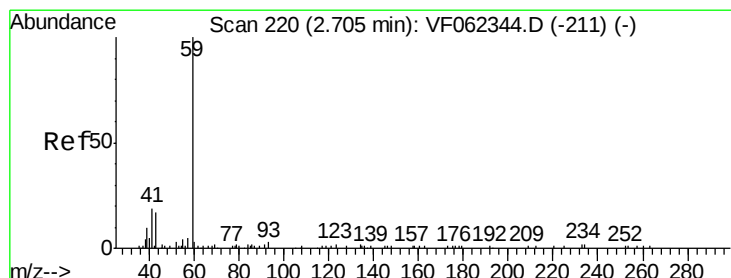
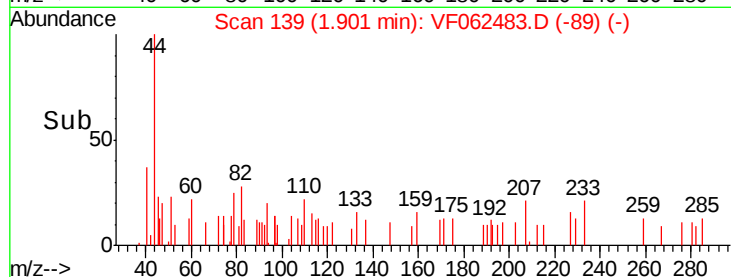
0

1.85

1.90

1.95

Time-->



#11

Tert butyl alcohol

Concen: 4.225 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062483.D

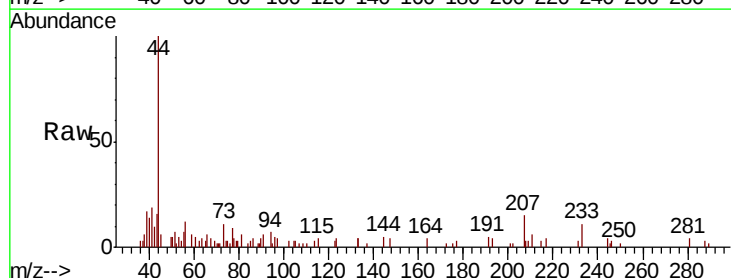
Acq: 12 May 2019 3:23

Tgt Ion: 59 Resp: 504

Ion Ratio Lower Upper

59 100

57 85.7 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

200

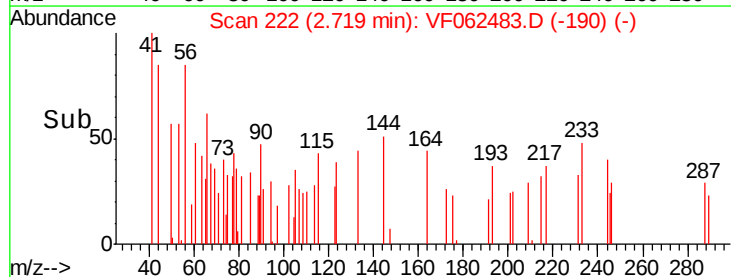
100

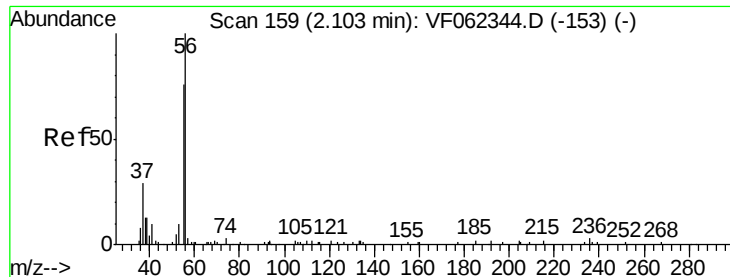
0

2.70

2.75

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

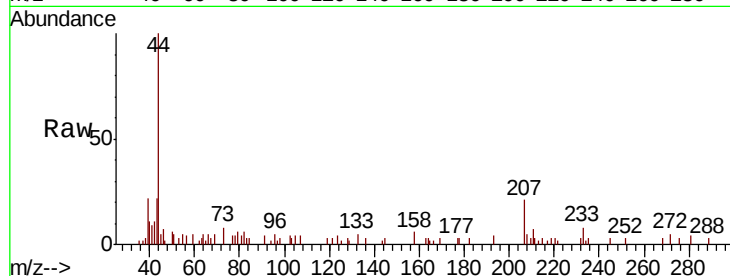
P021-SS004-0612-01

Tot Ion: 56 Resp: 209

Ion Ratio Lower Upper

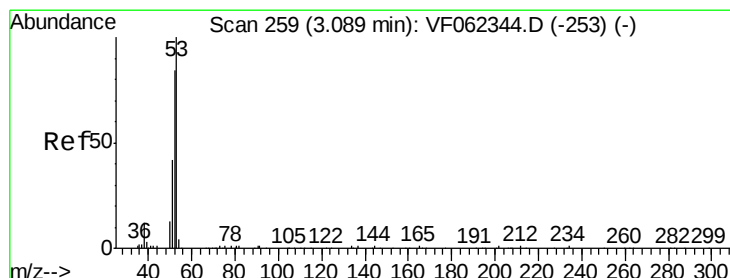
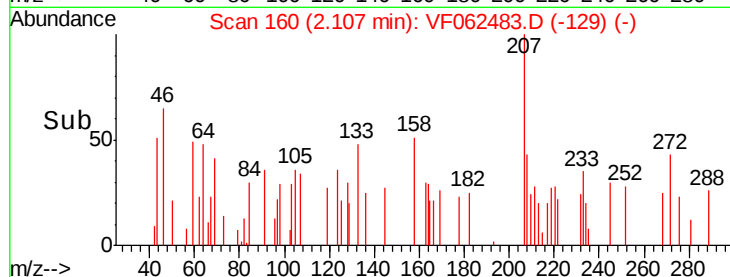
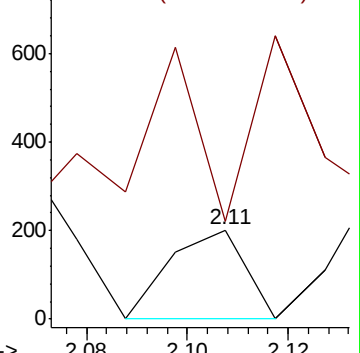
56 100

55 174.2 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 3.554 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

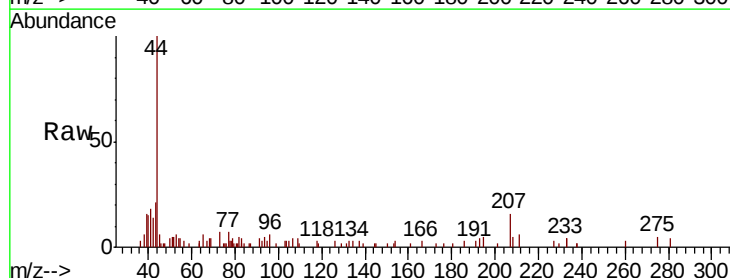
Tgt Ion: 53 Resp: 803

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

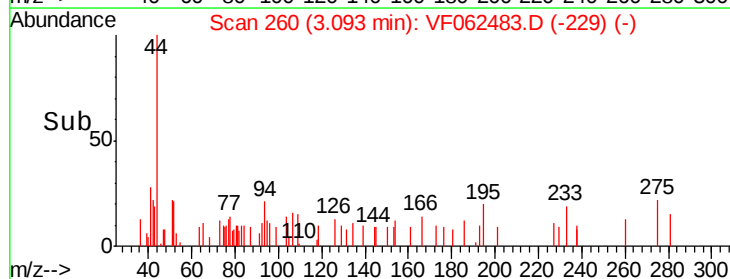
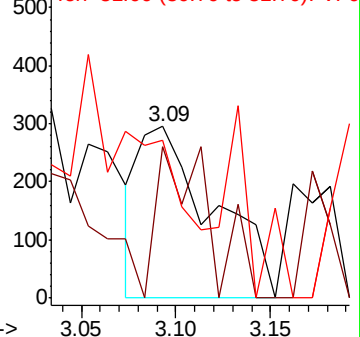
51 0.0 40.6 61.0#

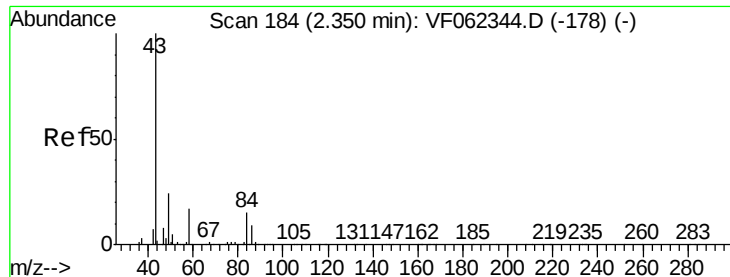


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

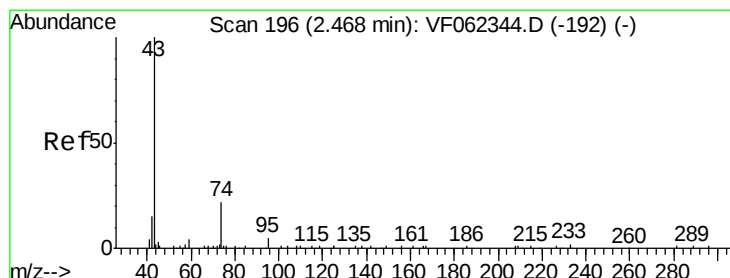
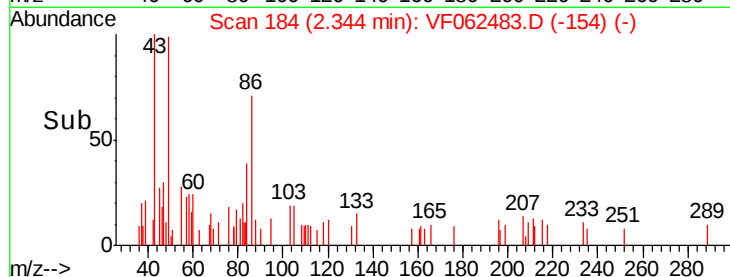
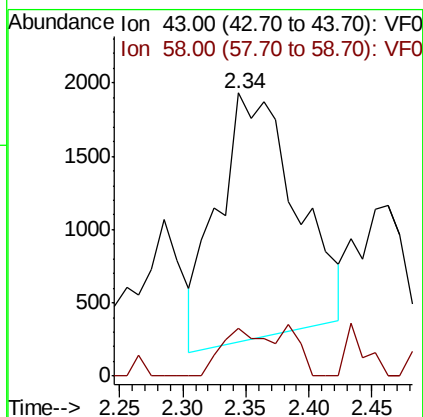
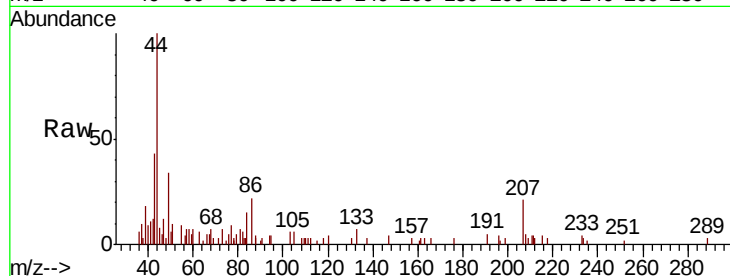




#16
Acetone
Concen: 16.897 ug/l
RT: 2.34 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

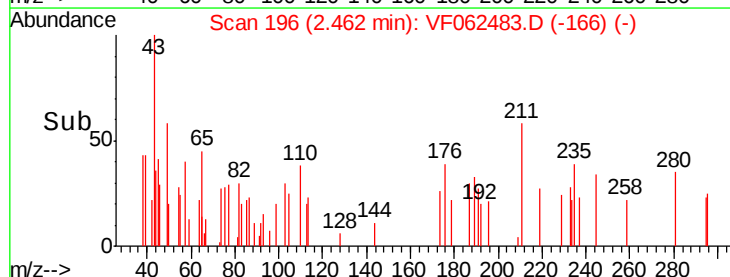
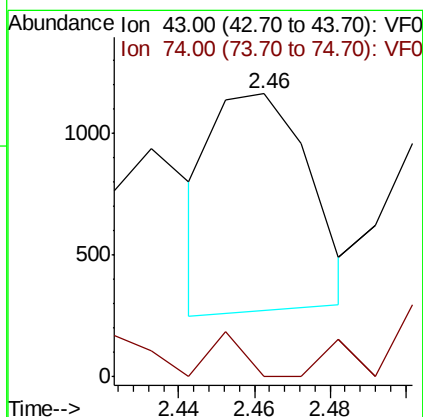
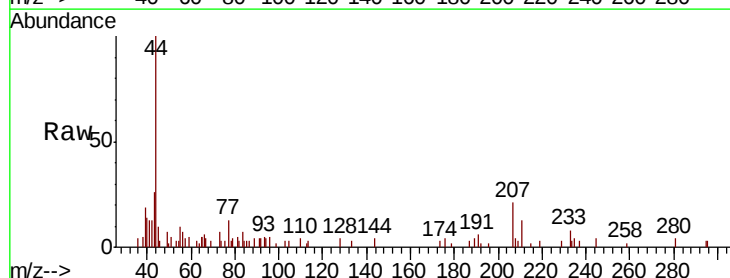
Instrument :
MSVOA_F
ClientSampleId :
P021-SS004-0612-01

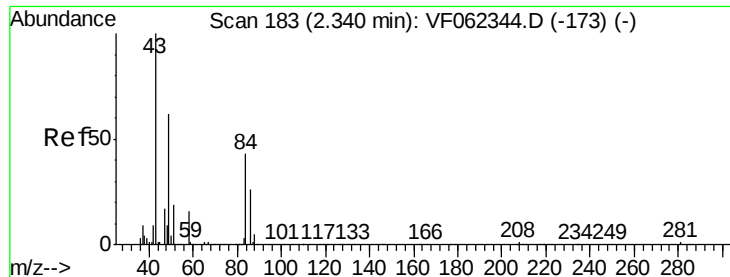
Tot Ion: 43 Resp: 7214
Ion Ratio Lower Upper
43 100
58 24.2 13.1 19.7#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

Tgt Ion: 43 Resp: 1572
Ion Ratio Lower Upper
43 100
74 0.0 15.0 22.4#

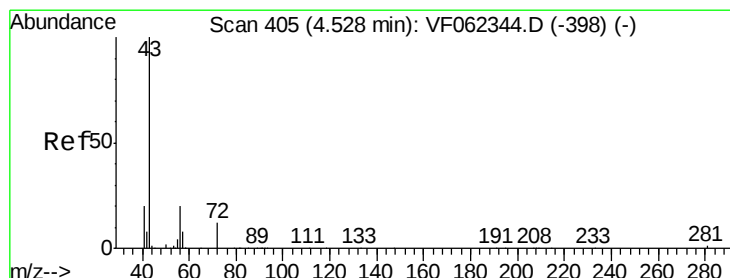
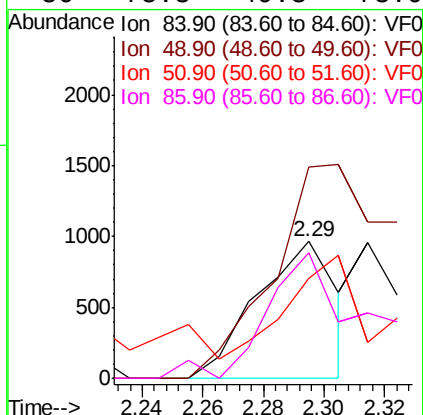
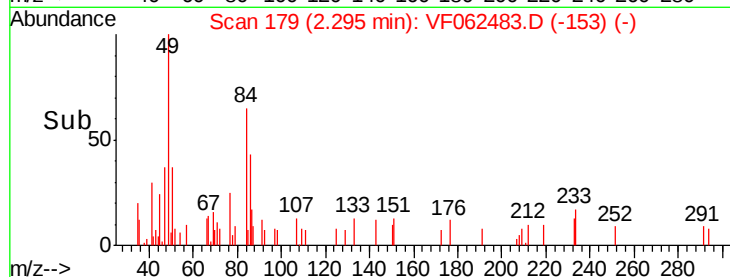
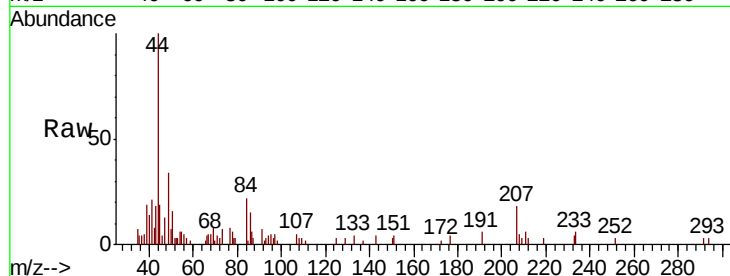




#20
Methvlene Chloride
Concen: 1.143 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.05 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

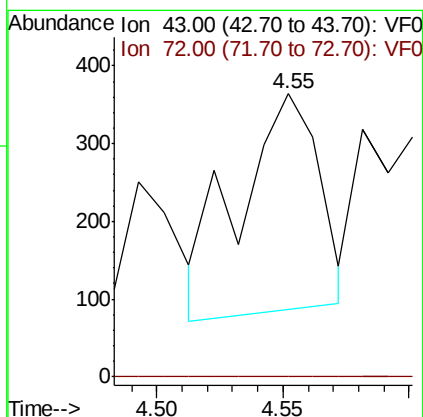
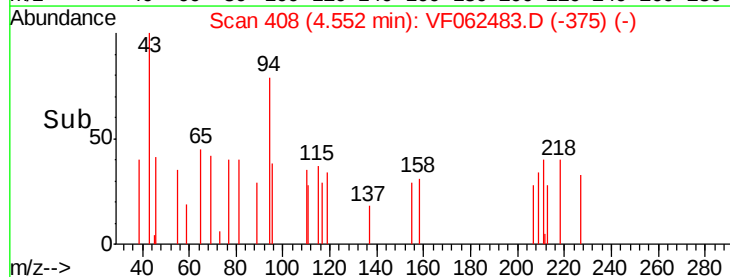
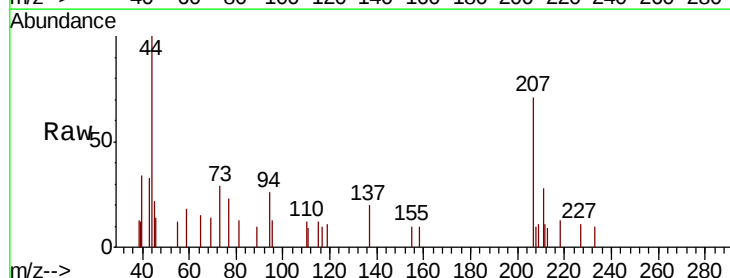
Instrument :
MSVOA_F
ClientSampleId :
P021-SS004-0612-01

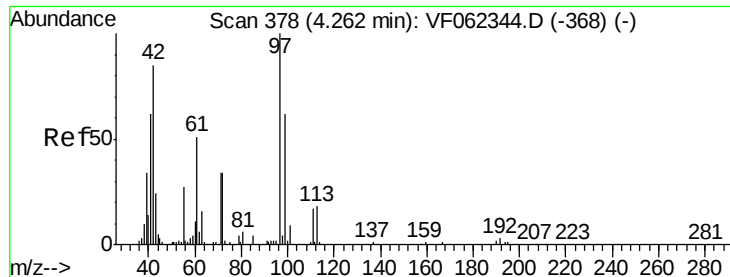
Tot Ion: 84 Resp: 1765
Ion Ratio Lower Upper
84 100
49 154.1 117.5 176.3
51 33.8 37.0 55.4#
86 78.3 49.3 73.9#



#25
2-Butanone
Concen: 1.160 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.02 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

Tgt Ion: 43 Resp: 622
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 1.055 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

P021-SS004-0612-01

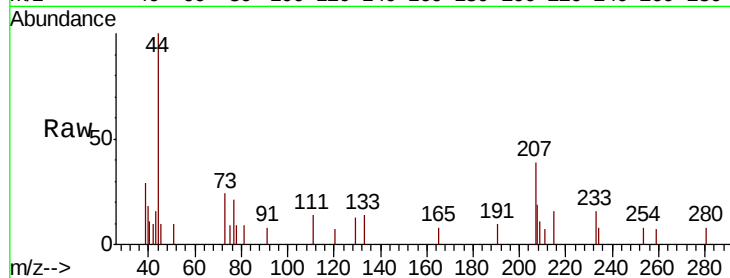
Tot Ion: 42 Resp: 260

Ion Ratio Lower Upper

42 100

72 25.4 31.4 47.0#

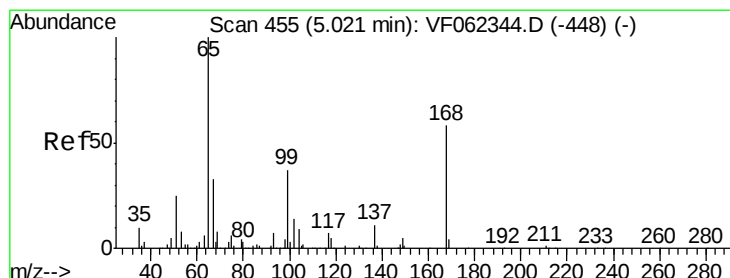
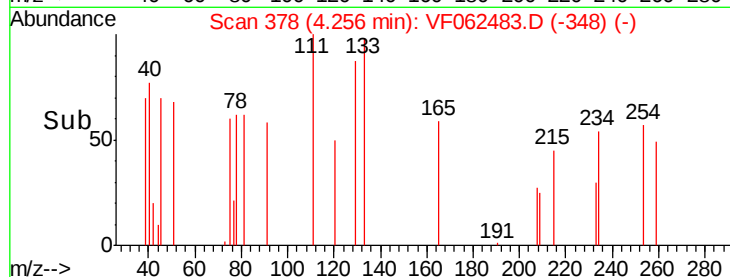
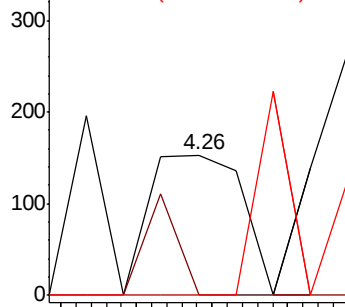
71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 44.854 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062483.D

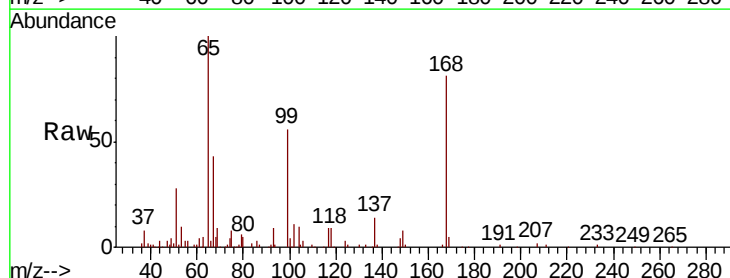
Acq: 12 May 2019 3:23

Tgt Ion: 65 Resp: 94665

Ion Ratio Lower Upper

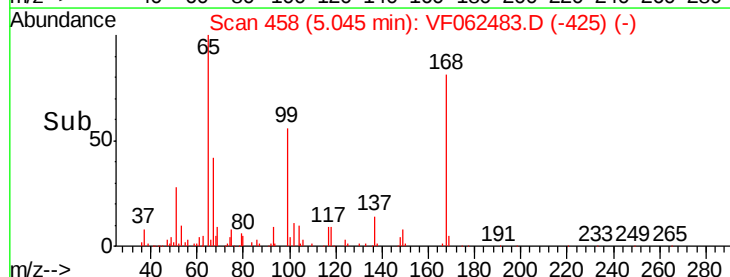
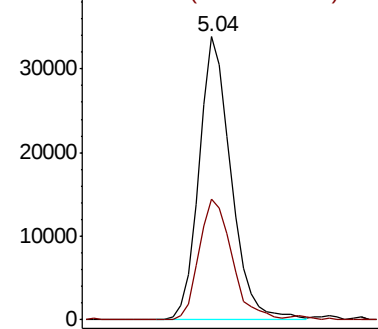
65 100

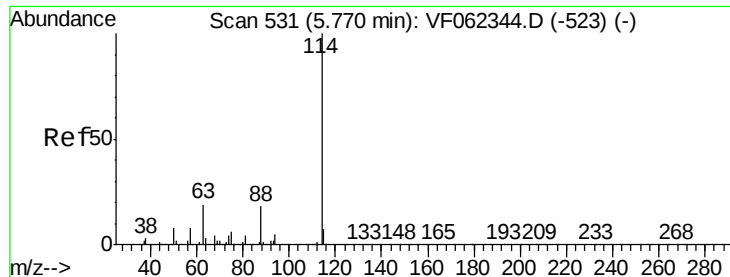
67 43.7 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

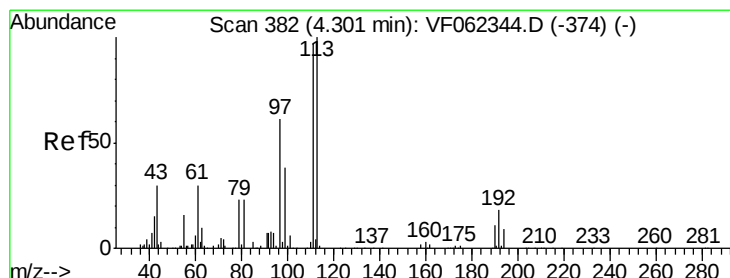
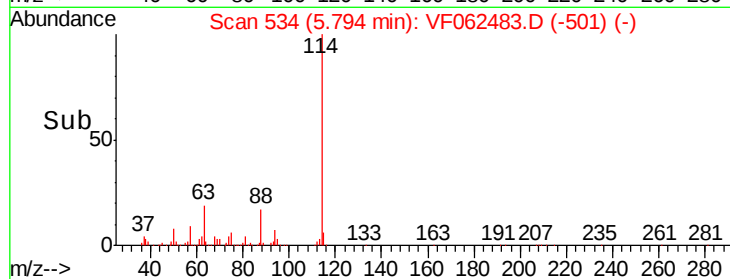
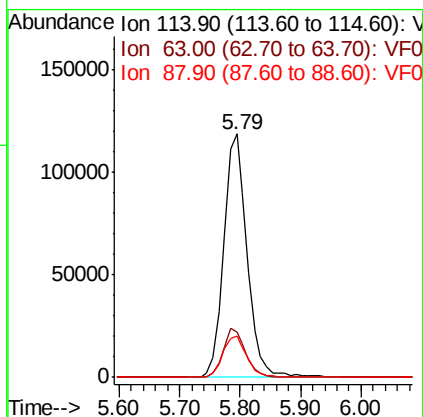
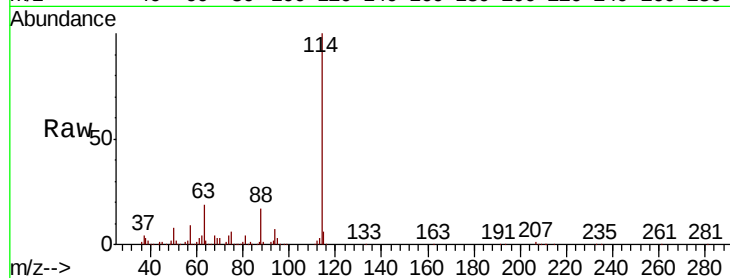




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VF062483.D
 Acq: 12 May 2019 3:23

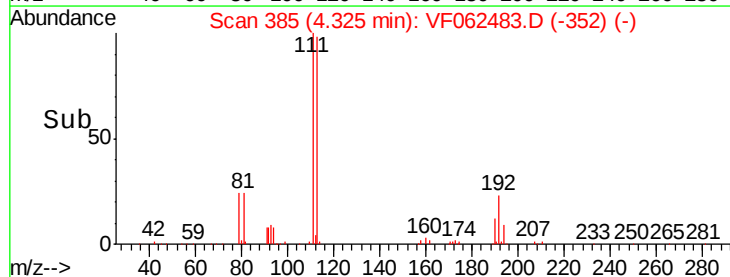
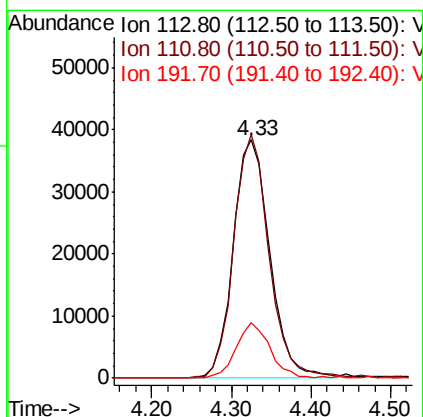
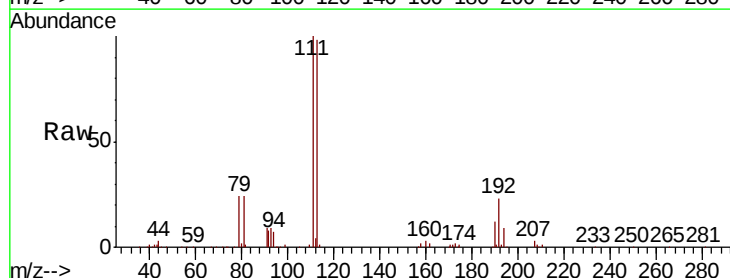
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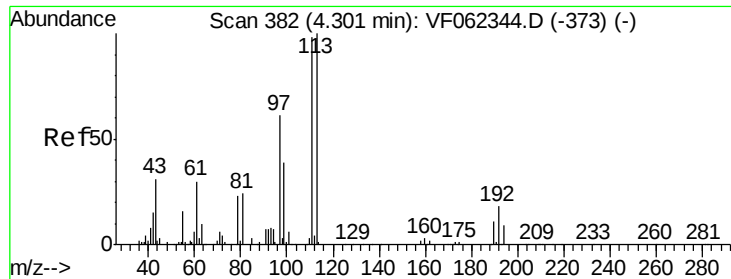
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	37.4
88	16.9	0.0	36.4



#35
 Dibromofluoromethane
 Concen: 48.319 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062483.D
 Acq: 12 May 2019 3:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.0	79.4	119.0
192	21.7	16.0	24.0

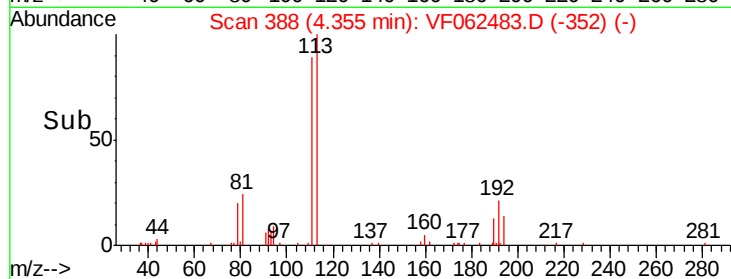
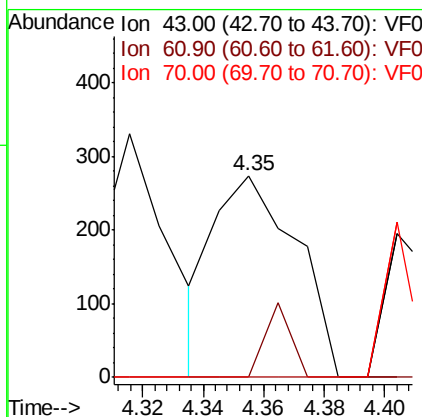
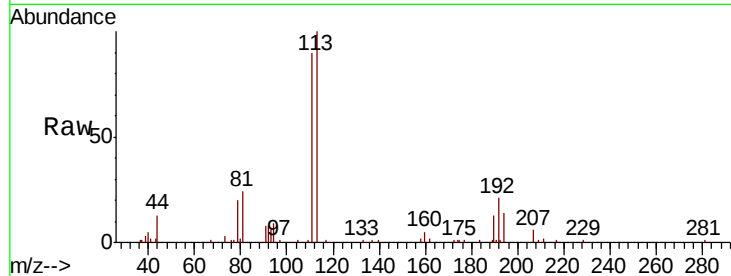




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 388
Delta R.T. 0.05 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

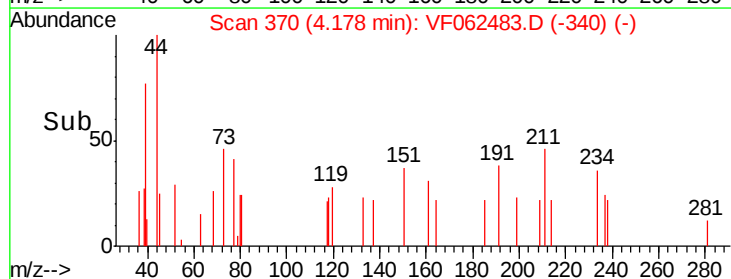
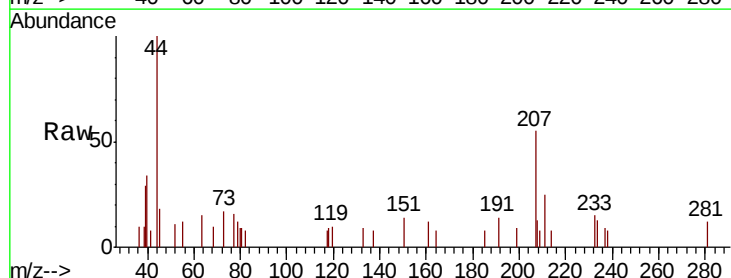
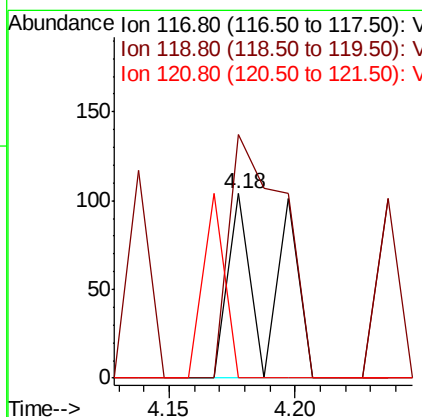
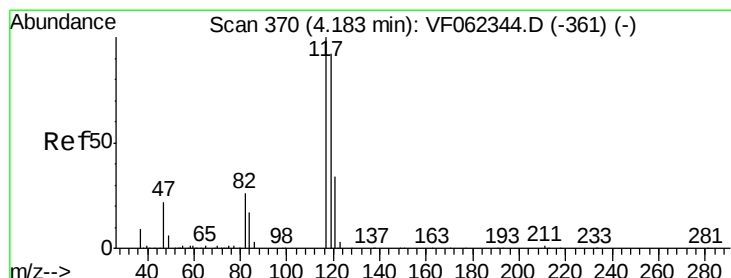
Instrument :
MSVOA_F
ClientSampleId :
P021-SS004-0612-01

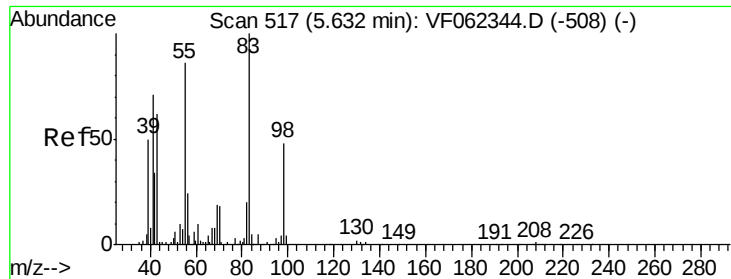
Tot Ion: 43 Resp: 521
Ion Ratio Lower Upper
43 100
61 11.5 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.18 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

Tgt Ion: 117 Resp: 121
Ion Ratio Lower Upper
117 100
119 131.7 73.4 110.2#
121 0.0 27.4 41.0#

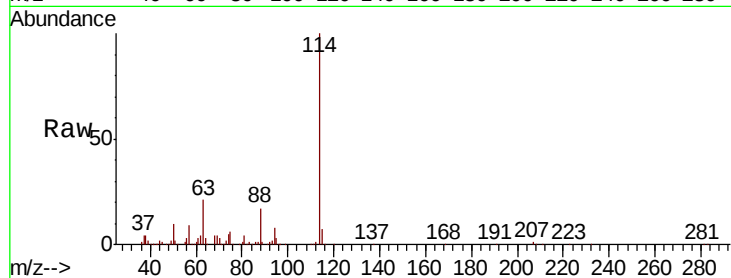




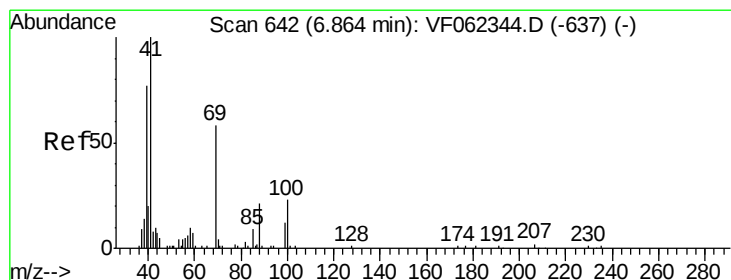
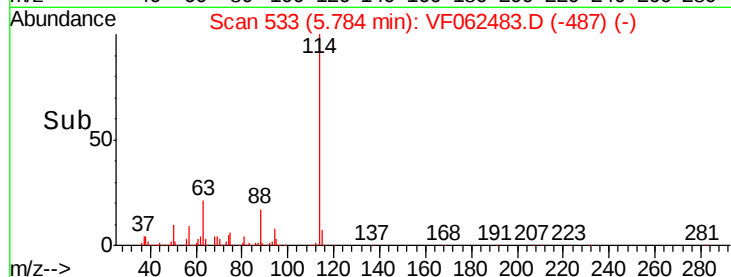
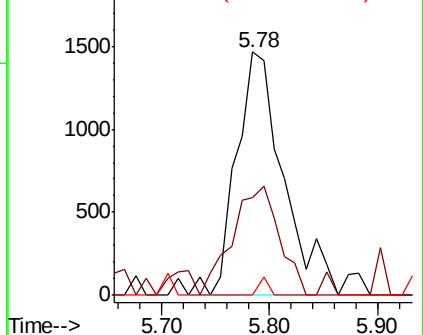
#39
Methylcyclohexane
Concen: 1.630 ug/l
RT: 5.78 min Scan# 533
Delta R.T. 0.15 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

Instrument :
MSVOA_F
ClientSampleId :
P021-SS004-0612-01

Tot Ion: 83 Resp: 4458
Ion Ratio Lower Upper
83 100
55 39.9 69.0 103.6#
98 0.0 38.6 58.0#

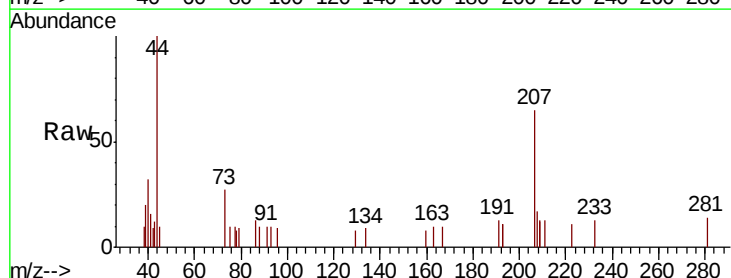


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

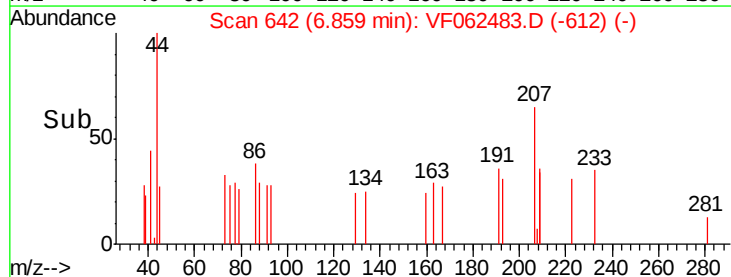
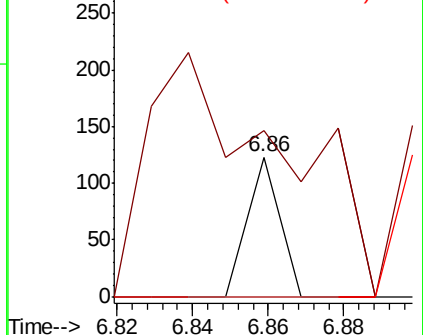


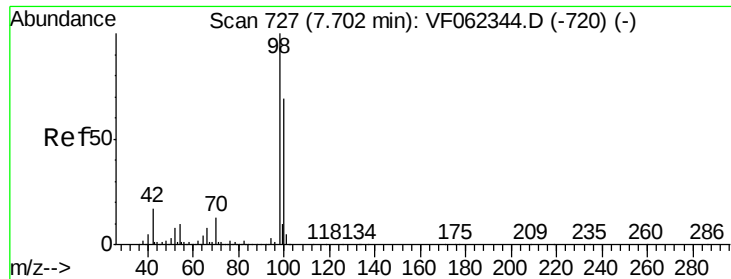
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF062483.D
Acq: 12 May 2019 3:23

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 730.1 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: 33.774 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

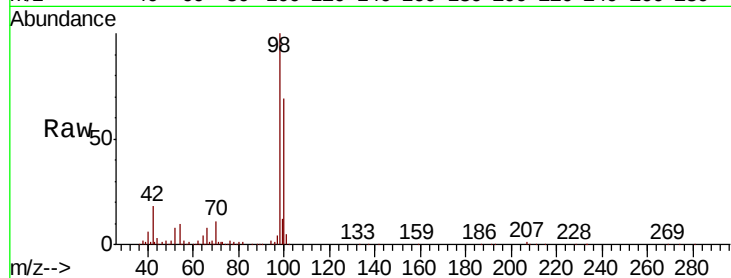
P021-SS004-0612-01

Tot Ion: 98 Resp: 206741

Ion Ratio Lower Upper

98 100

100 66.5 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.73

100000

80000

60000

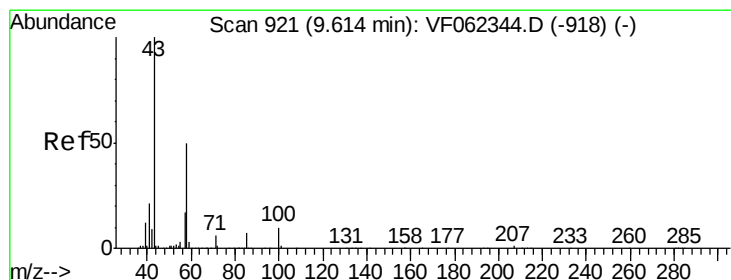
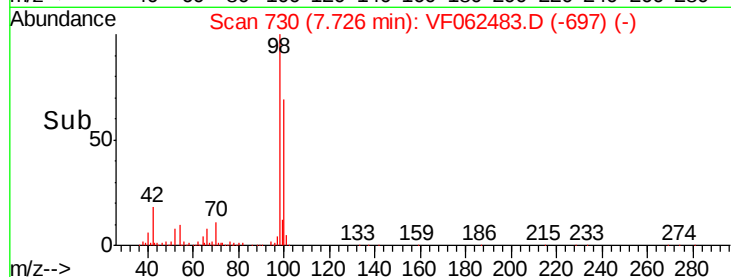
40000

20000

0

Time-->

7.60 7.70 7.80 7.90



#59

2-Hexanone

Concen: 2.126 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.03 min

Lab File: VF062483.D

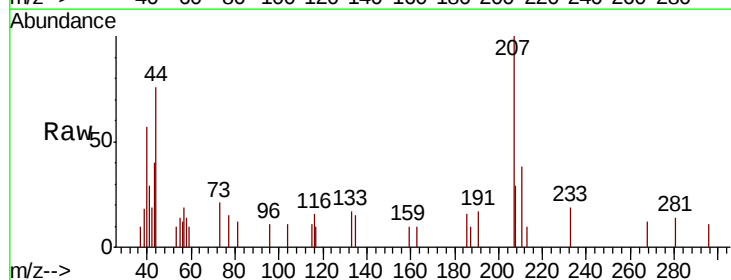
Acq: 12 May 2019 3:23

Tgt Ion: 43 Resp: 1382

Ion Ratio Lower Upper

43 100

58 5.2 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

300

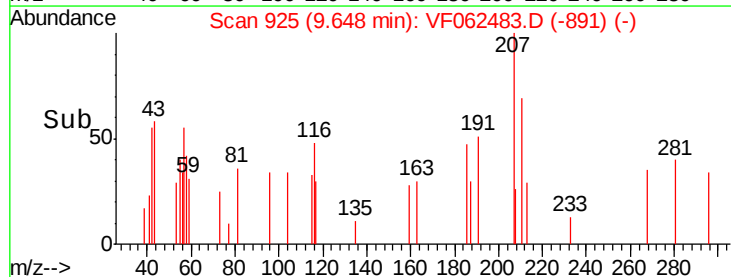
200

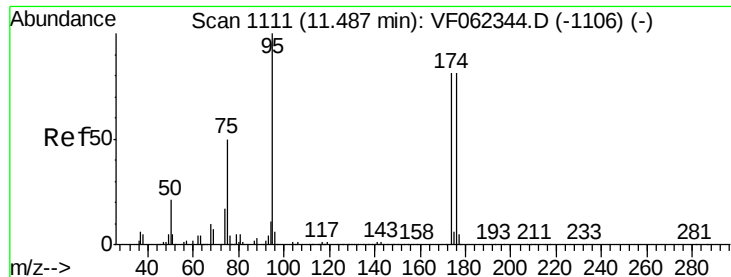
100

0

Time-->

9.60 9.65 9.70





#62

4-Bromofluorobenzene

Concen: 33.842 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

P021-SS004-0612-01

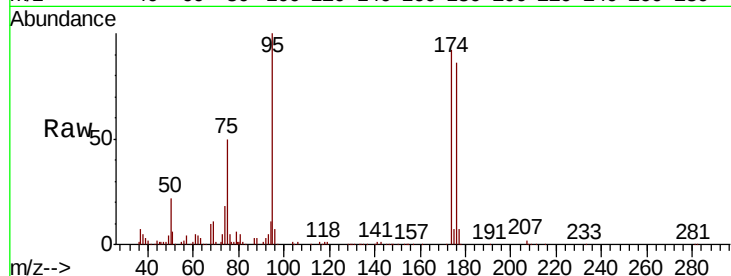
Tot Ion: 95 Resp: 93460

Ion Ratio Lower Upper

95 100

174 101.1 0.0 191.8

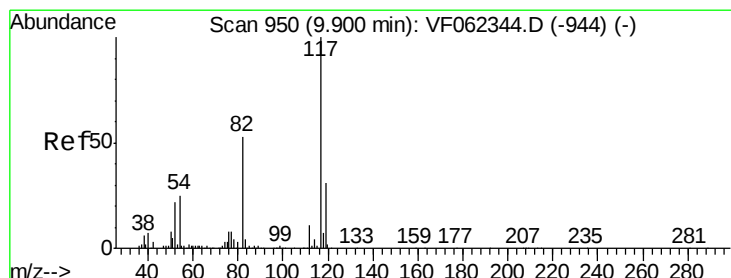
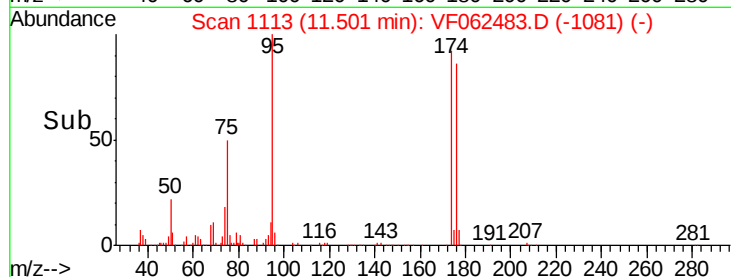
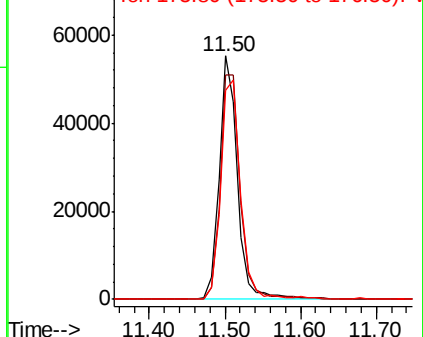
176 97.8 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

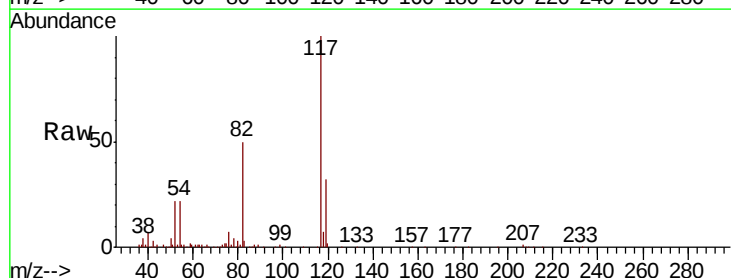
Tgt Ion: 117 Resp: 270637

Ion Ratio Lower Upper

117 100

82 49.5 42.2 63.2

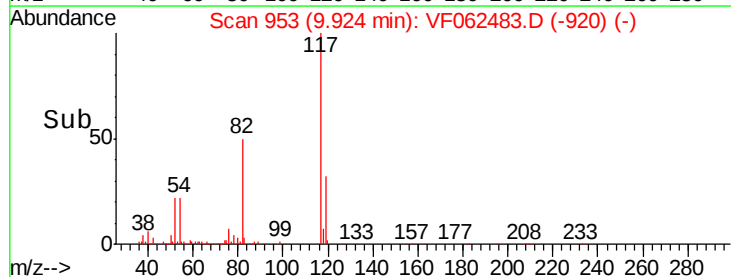
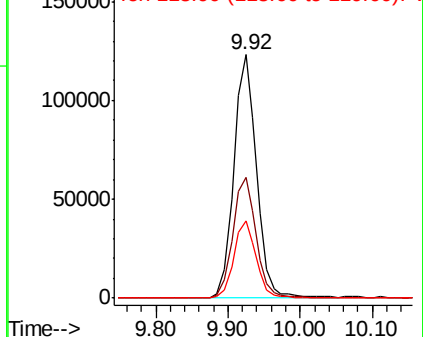
119 31.8 25.0 37.4

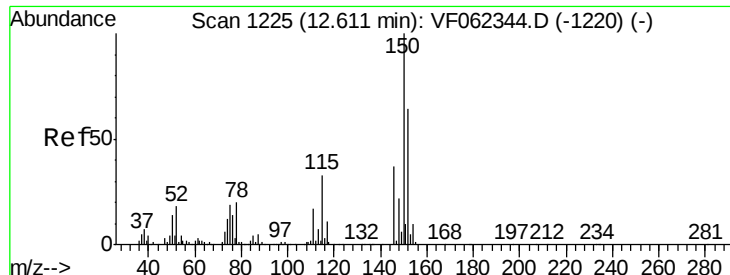


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062483.D

Acq: 12 May 2019 3:23

Instrument :

MSVOA_F

ClientSampleId :

P021-SS004-0612-01

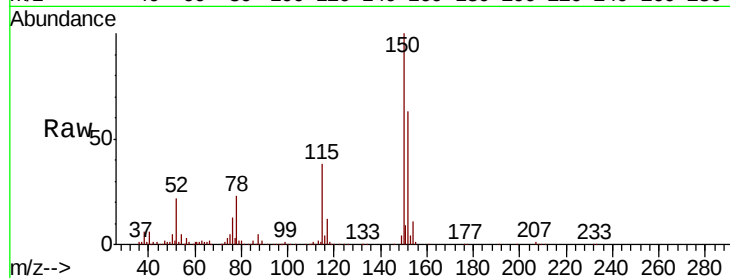
Tot Ion:152 Resp: 149319

Ion Ratio Lower Upper

152 100

115 54.0 26.4 79.2

150 155.9 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

