

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062479.D
 Acq On : 12 May 2019 1:31
 Operator : FY/SY
 Sample : K2733-17
 Misc : 5.29g/5mL/MSVOA F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS003-1218-01

Quant Time: May 12 03:53:15 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	235128	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	328031	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	271289	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	150702	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	113182	50.94	ug/l	0.03
Spiked Amount 50.000			Recovery	=	101.88%	
35) Dibromofluoromethane	4.32	113	139173	53.25	ug/l	0.02
Spiked Amount 50.000			Recovery	=	106.50%	
50) Toluene-d8	7.72	98	245840	38.86	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.72%	
62) 4-Bromofluorobenzene	11.51	95	110628	38.76	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.52%	

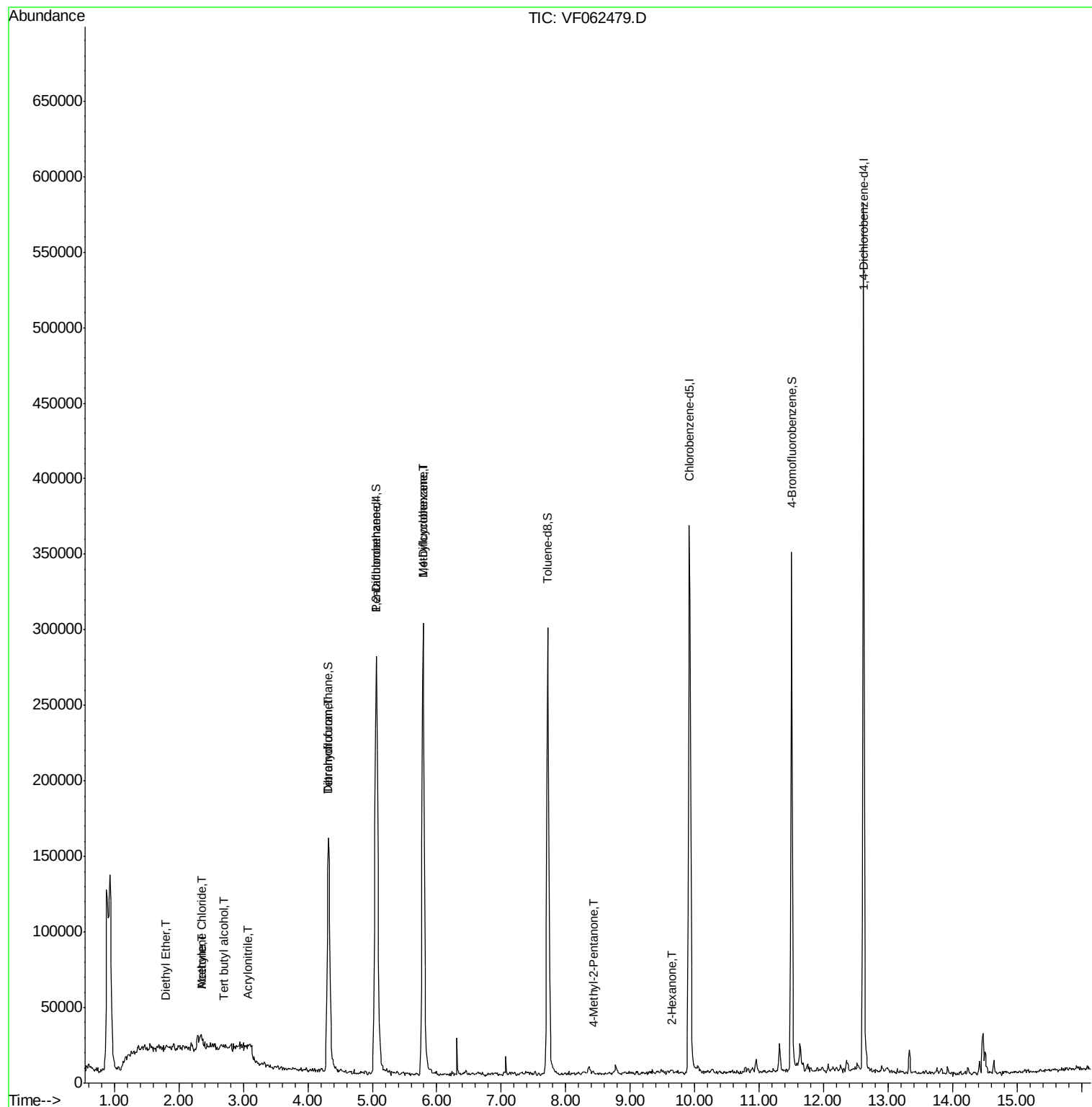
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	1153	Below Cal	#	3
8) Diethyl Ether	1.79	74	586	1.043	ug/l	93
11) Tert butyl alcohol	2.69	59	635	5.056	ug/l #	70
13) Acrolein	2.12	56	694	Below Cal	#	13
15) Acrylonitrile	3.08	53	811	3.409	ug/l #	65
16) Acetone	2.36	43	10351	23.028	ug/l #	81
18) Methyl Acetate	2.45	43	880	Below Cal	#	59
20) Methylene Chloride	2.34	84	7187	4.419	ug/l #	60
29) Tetrahydrofuran	4.31	42	1384	5.332	ug/l #	69
37) Ethyl Acetate	4.34	43	610	Below Cal	#	73
38) Carbon Tetrachloride	4.16	117	94	Below Cal	#	14
39) Methylcyclohexane	5.78	83	5124	1.813	ug/l #	38
49) 1,4-Dioxane	6.87	88	83	Below Cal	#	50
51) 4-Methyl-2-Pentanone	8.42	43	2069	2.130	ug/l #	61
59) 2-Hexanone	9.64	43	1746	2.599	ug/l #	62

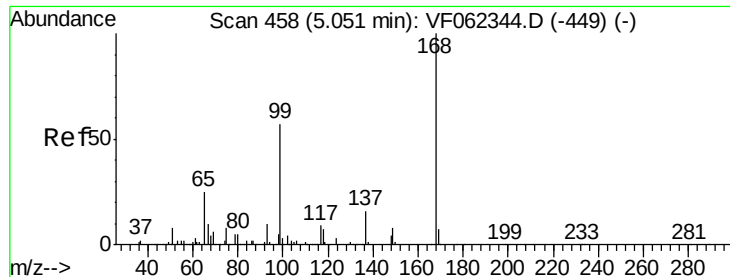
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

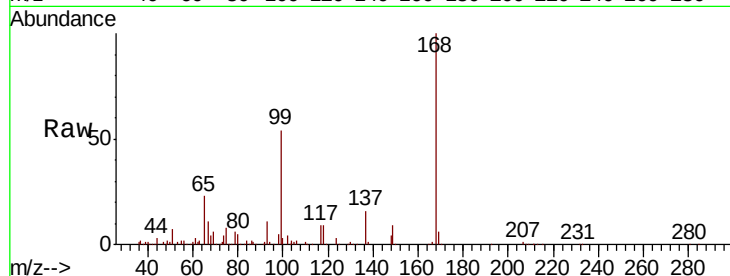
P021-SS003-1218-01

Tot Ion:168 Resp: 235128

Ion Ratio Lower Upper

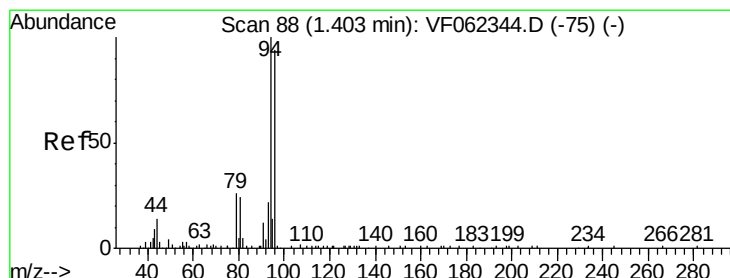
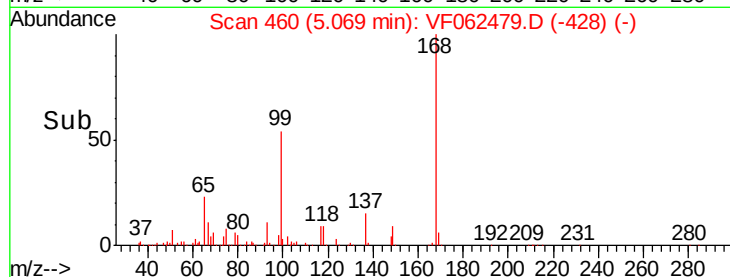
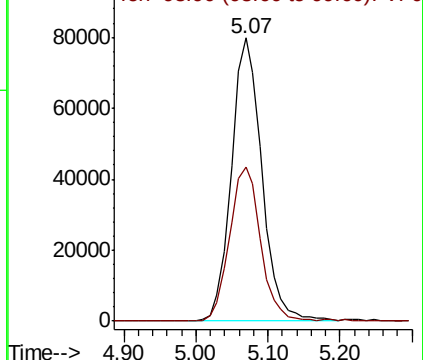
168 100

99 54.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062479.D

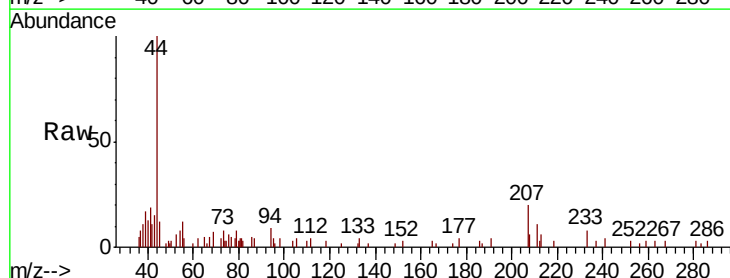
Acq: 12 May 2019 1:31

Tgt Ion: 94 Resp: 1153

Ion Ratio Lower Upper

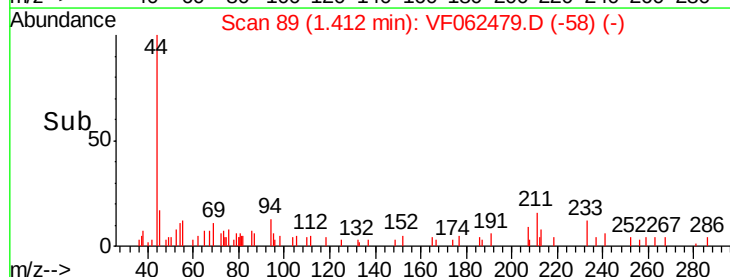
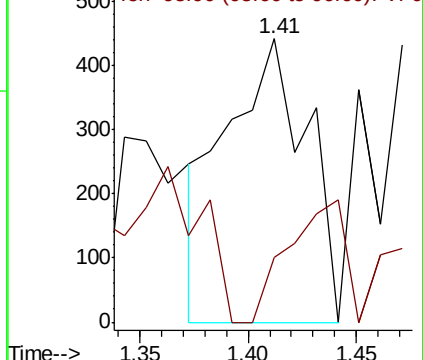
94 100

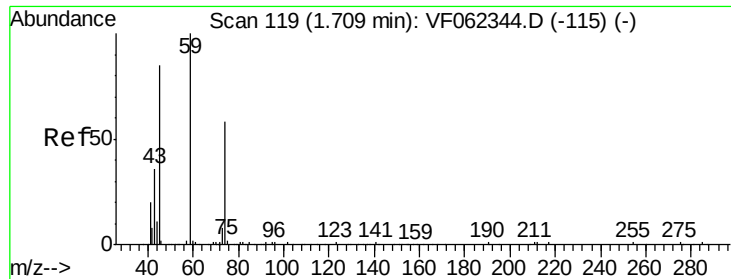
96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0





#8

Diethyl Ether

Concen: 1.043 ug/l

RT: 1.79 min Scan# 127

Delta R.T. 0.08 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

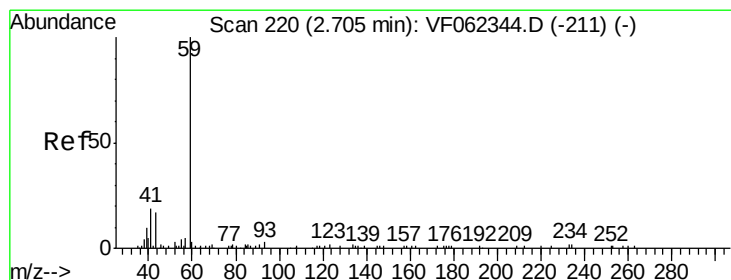
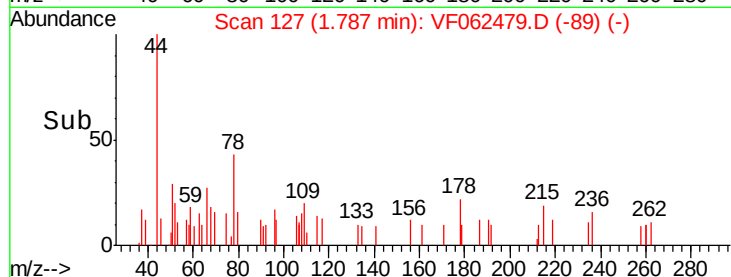
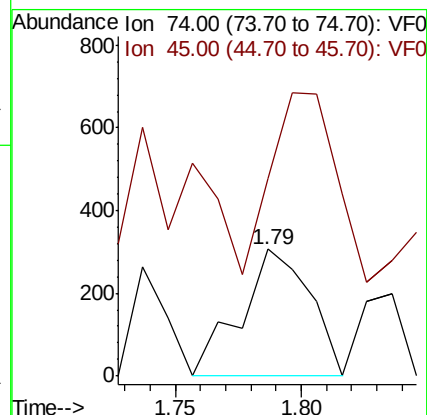
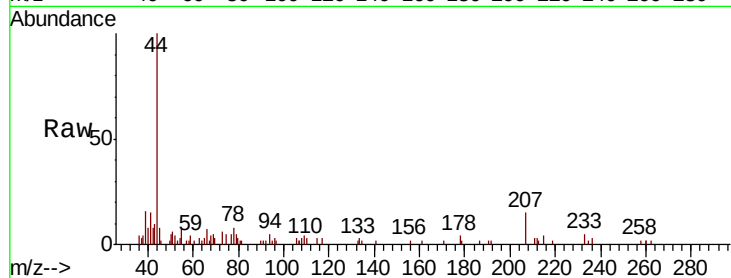
P021-SS003-1218-01

Tot Ion: 74 Resp: 586

Ion Ratio Lower Upper

74 100

45 138.7 73.9 221.6



#11

Tert butyl alcohol

Concen: 5.056 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062479.D

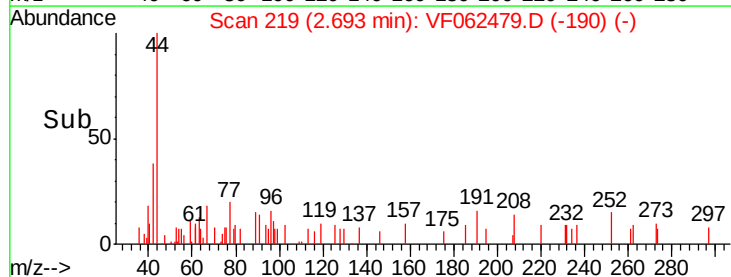
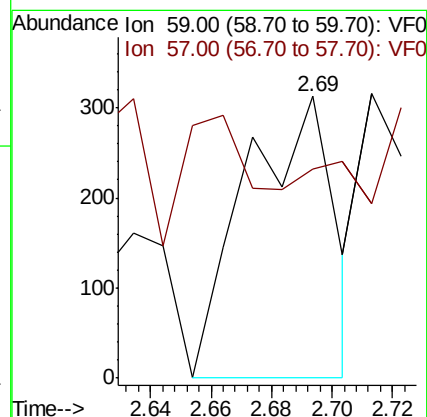
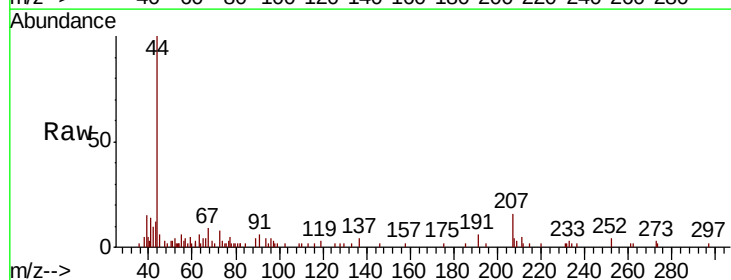
Acq: 12 May 2019 1:31

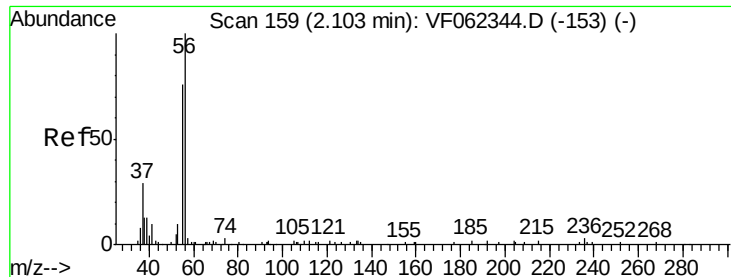
Tgt Ion: 59 Resp: 635

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.12 min Scan# 161

Delta R.T. 0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

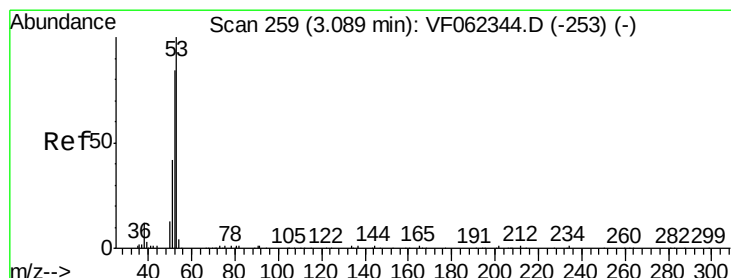
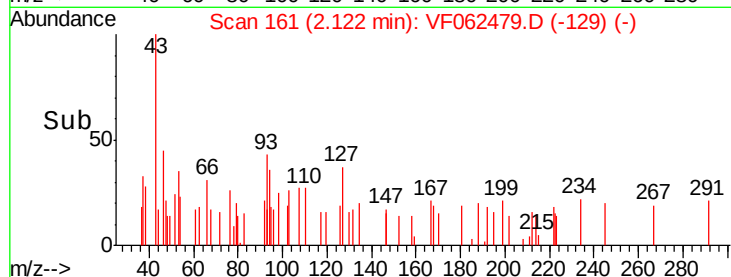
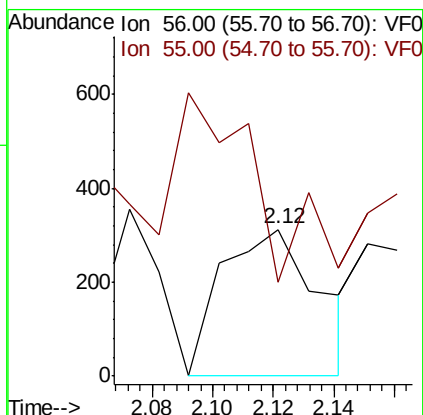
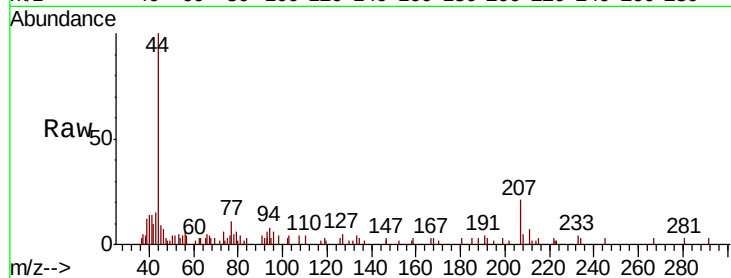
P021-SS003-1218-01

Tot Ion: 56 Resp: 694

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#15

Acrylonitrile

Concen: 3.409 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

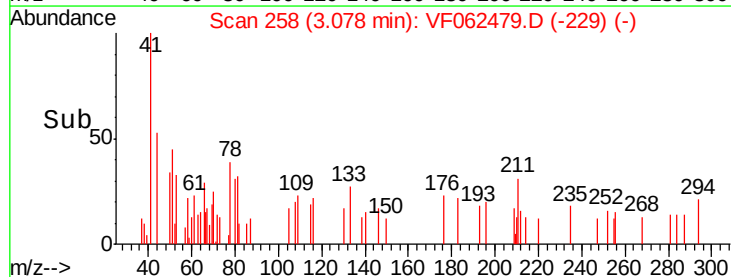
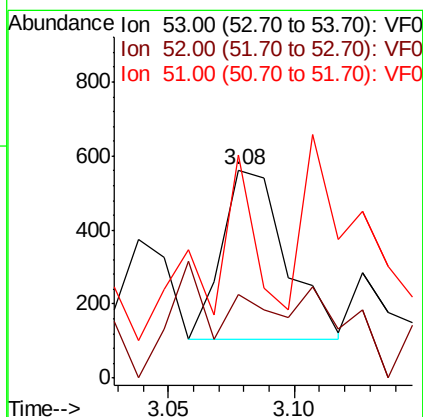
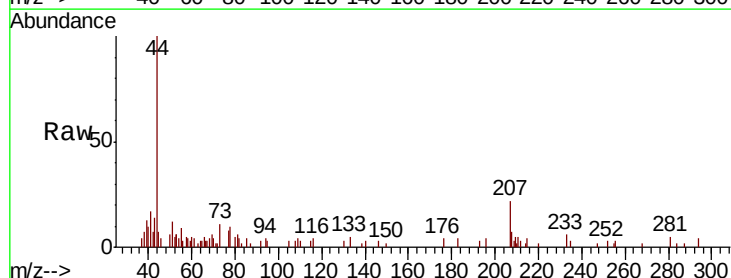
Tgt Ion: 53 Resp: 811

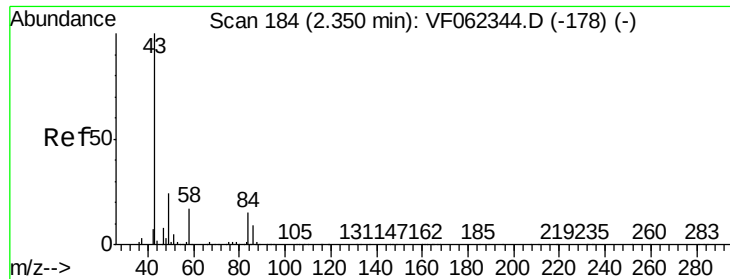
Ion Ratio Lower Upper

53 100

52 70.4 77.2 115.8#

51 86.1 40.6 61.0#





#16

Acetone

Concen: 23.028 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

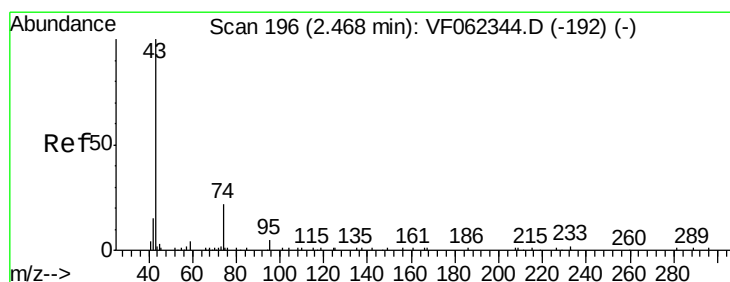
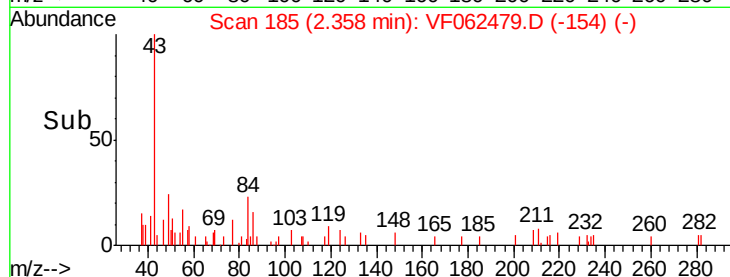
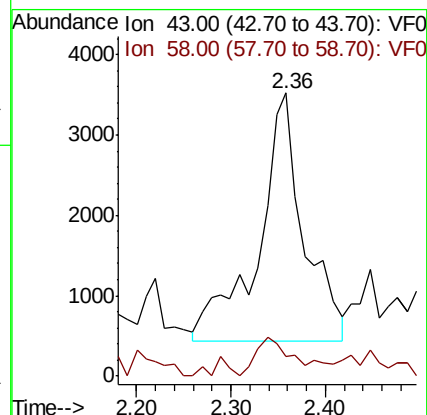
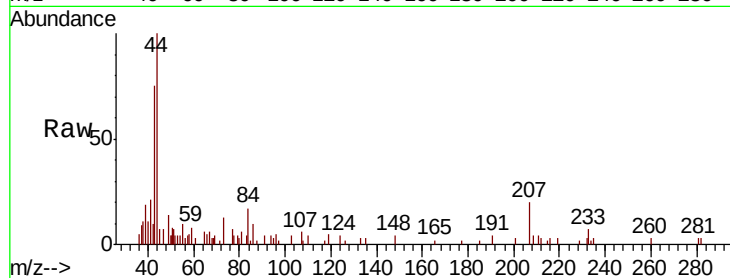
P021-SS003-1218-01

Tot Ion: 43 Resp: 10351

Ion Ratio Lower Upper

43 100

58 8.4 13.1 19.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.45 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF062479.D

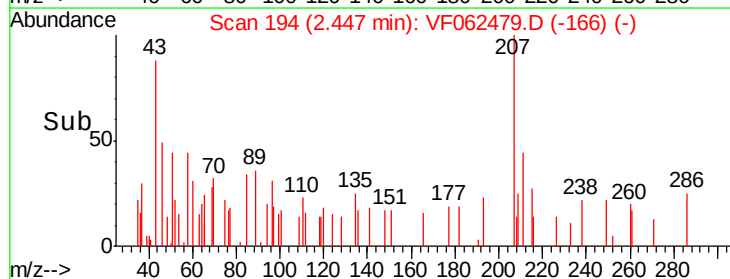
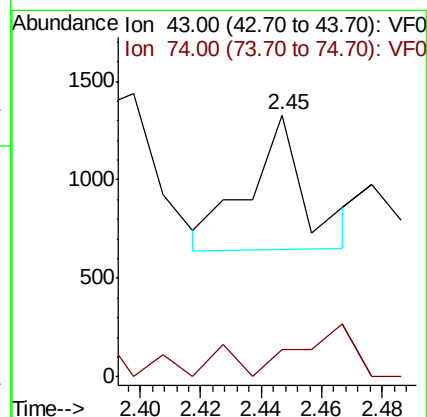
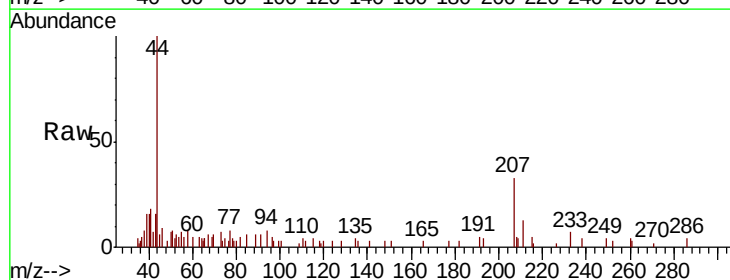
Acq: 12 May 2019 1:31

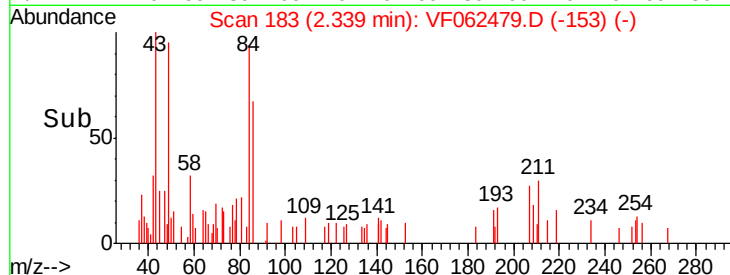
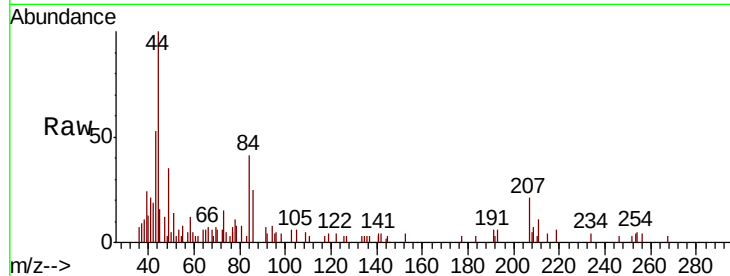
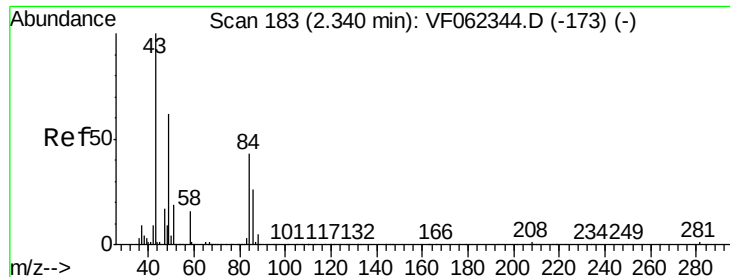
Tgt Ion: 43 Resp: 880

Ion Ratio Lower Upper

43 100

74 36.9 15.0 22.4#

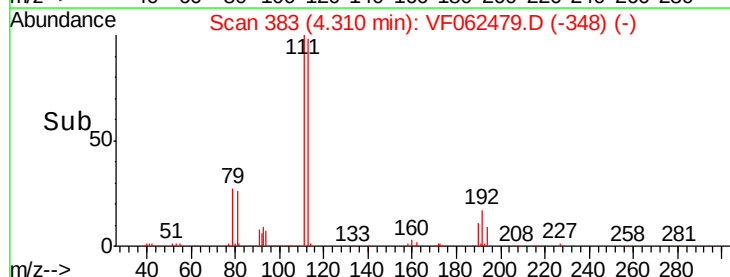
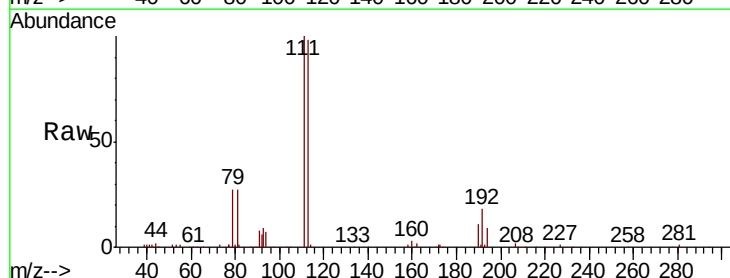
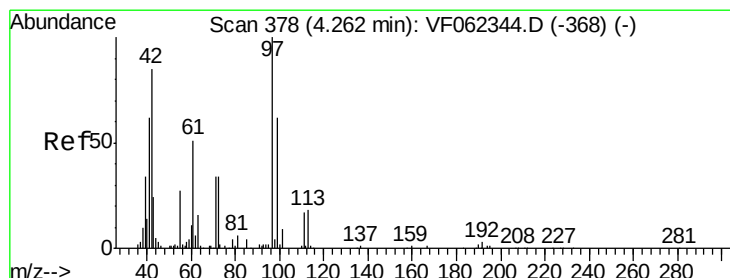
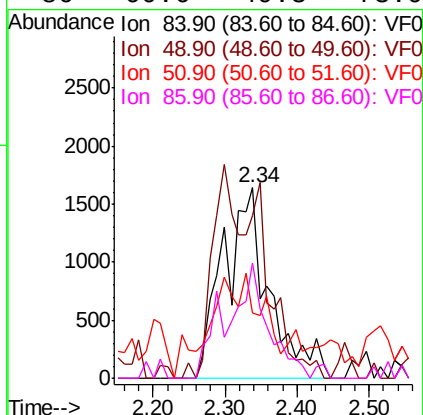




#20
Methylene Chloride
Concen: 4.419 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

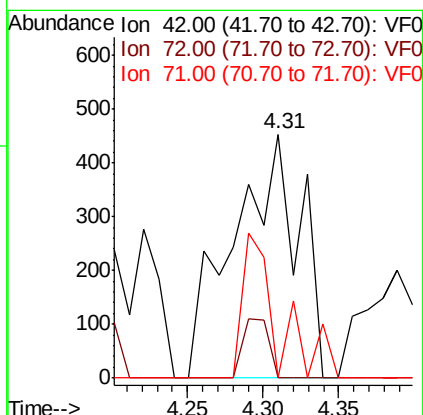
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MSVOA_F
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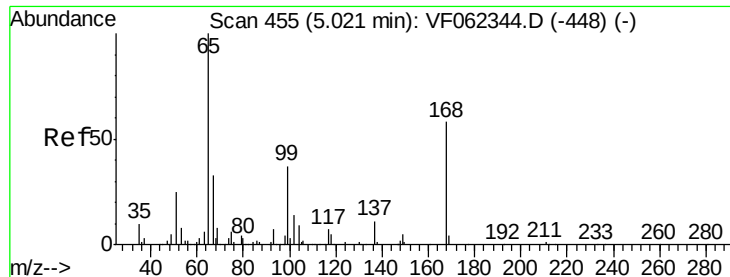
Tot Ion:	84	Resp:	7187
Ion	Ratio	Lower	Upper
84	100		
49	77.4	117.5	176.3#
51	19.1	37.0	55.4#
86	60.6	49.3	73.9



#29
Tetrahydrofuran
Concen: 5.332 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.05 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

Tgt Ion:	42	Resp:	1384
Ion	Ratio	Lower	Upper
42	100		
72	9.3	31.4	47.0#
71	31.4	31.7	47.5#

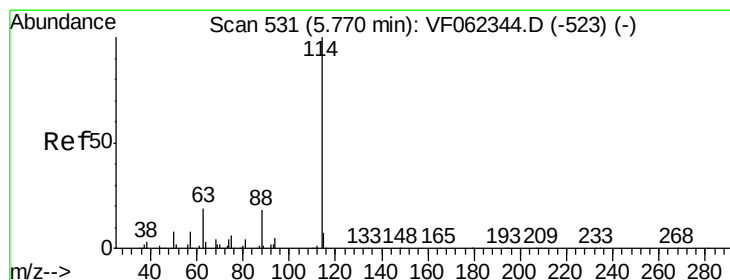
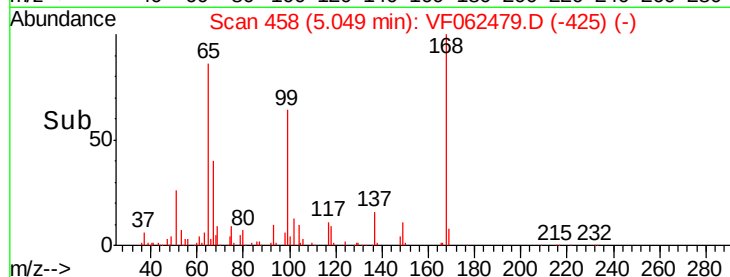
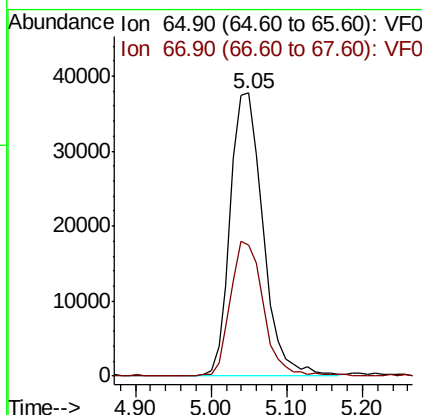
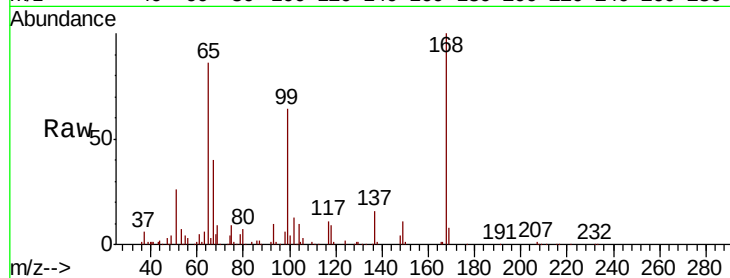




#33
 1,2-Dichloroethane-d4
 Concen: 50.936 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062479.D
 Acq: 12 May 2019 1:31

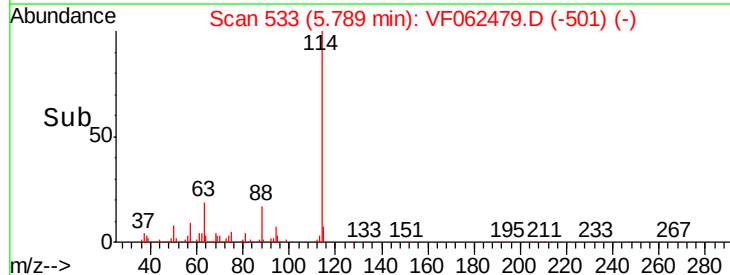
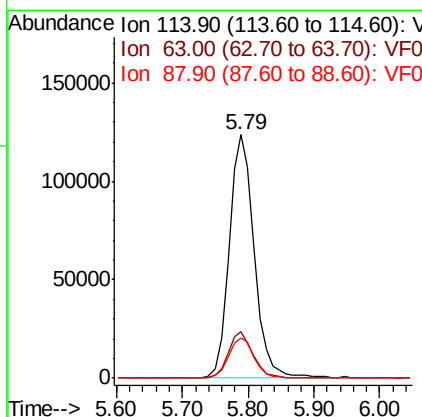
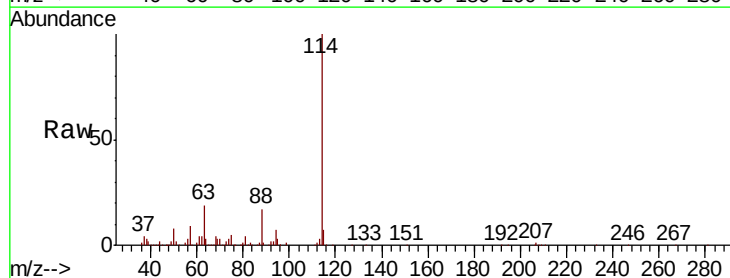
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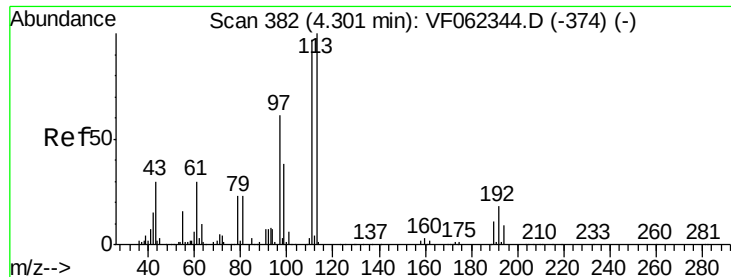
Tot Ion: 65 Resp: 113182
 Ion Ratio Lower Upper
 65 100
 67 48.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062479.D
 Acq: 12 May 2019 1:31

Tgt Ion: 114 Resp: 328031
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 37.4
 88 16.7 0.0 36.4

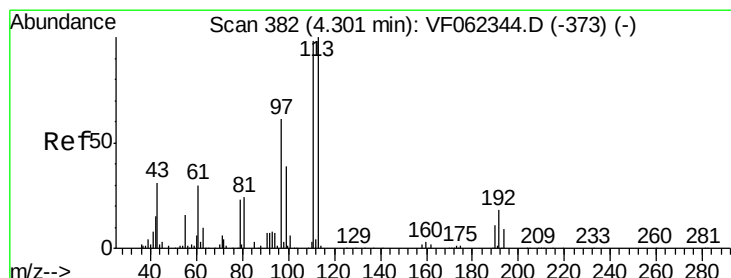
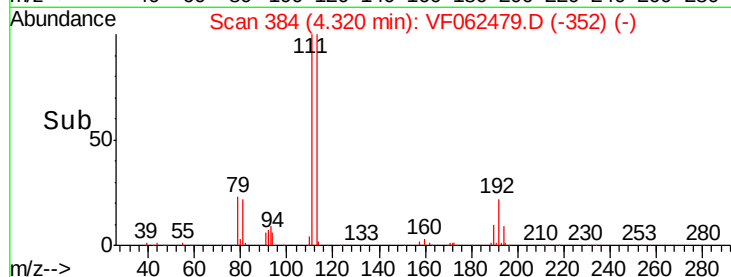
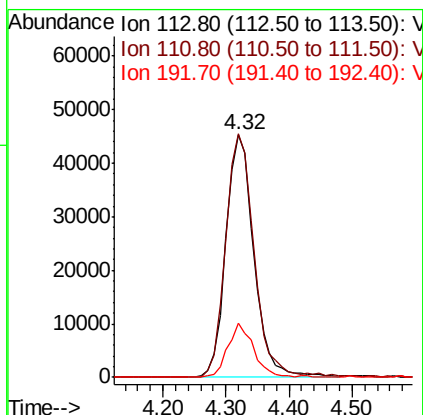
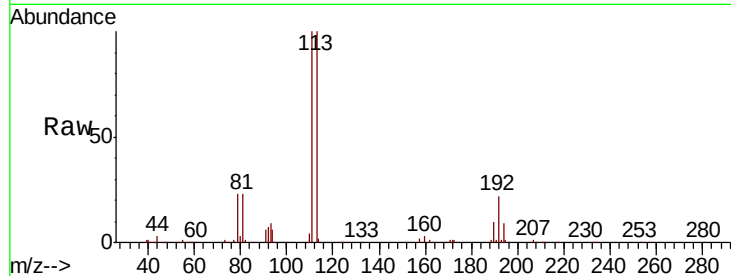




#35
Dibromofluoromethane
Concen: 53.254 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

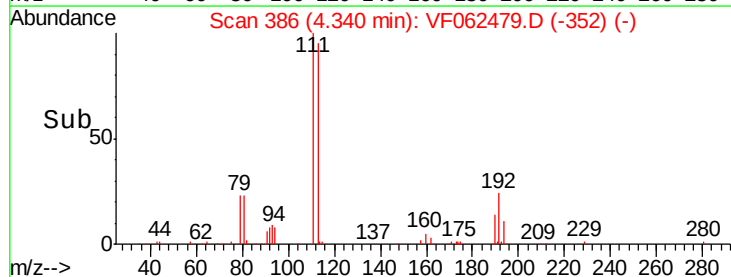
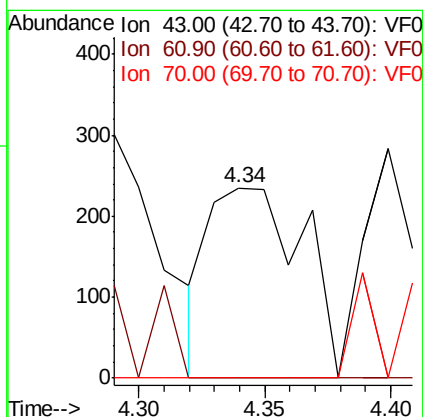
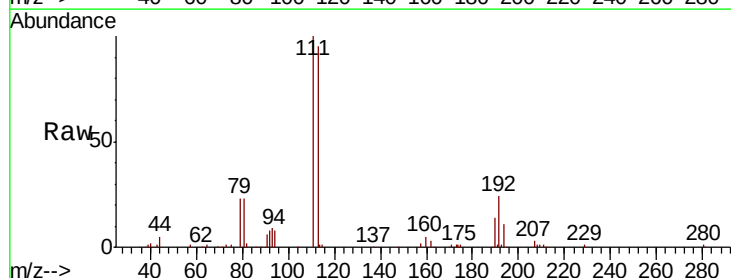
Instrument :
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P021-SS003-1218-01

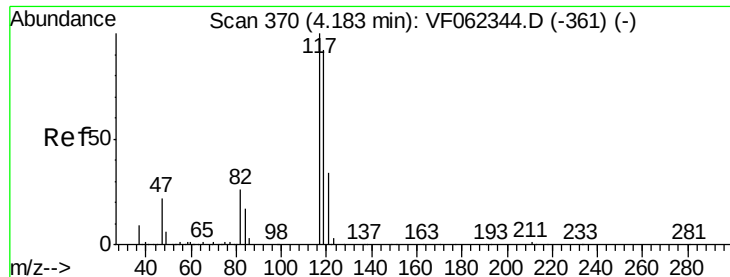
Tot Ion:113 Resp: 139173
Ion Ratio Lower Upper
113 100
111 101.0 79.4 119.0
192 20.7 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 386
Delta R.T. 0.04 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

Tgt Ion: 43 Resp: 610
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.16 min Scan# 368

Delta R.T. -0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

P021-SS003-1218-01

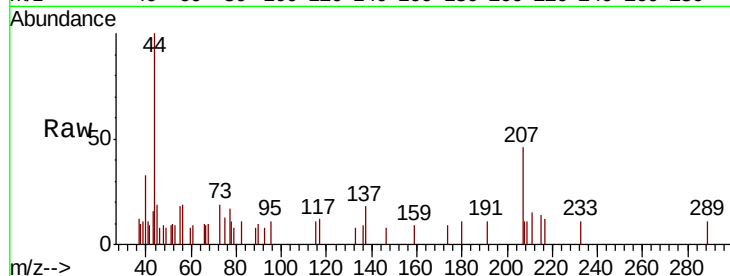
Tot Ion:117 Resp: 94

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

4.16

150

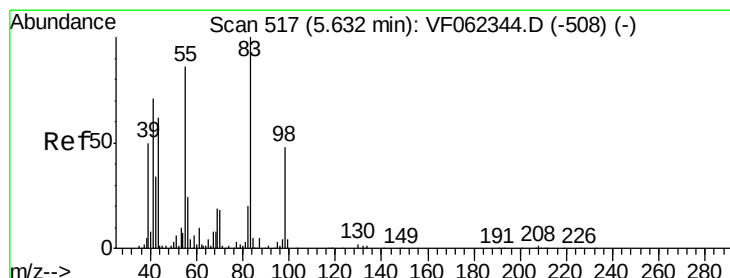
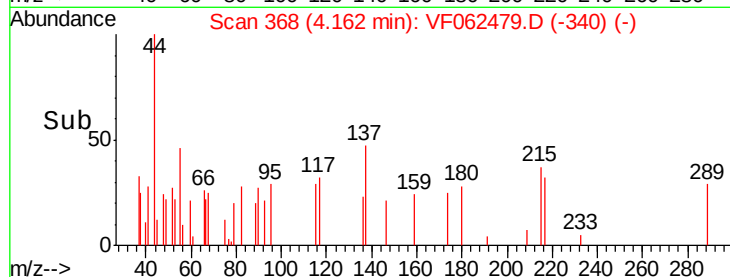
100

50

0

4.14 4.16 4.18

Time-->



#39

Methylcyclohexane

Concen: 1.813 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.15 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

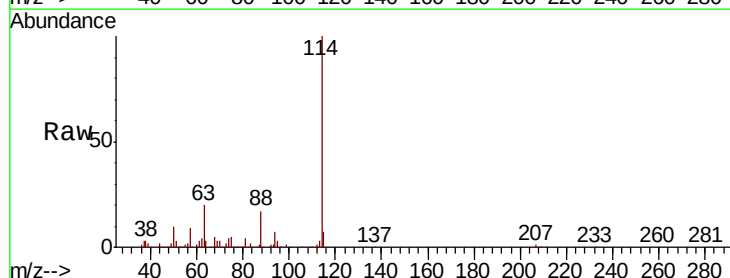
Tgt Ion: 83 Resp: 5124

Ion Ratio Lower Upper

83 100

55 34.1 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

2500

2000

1500

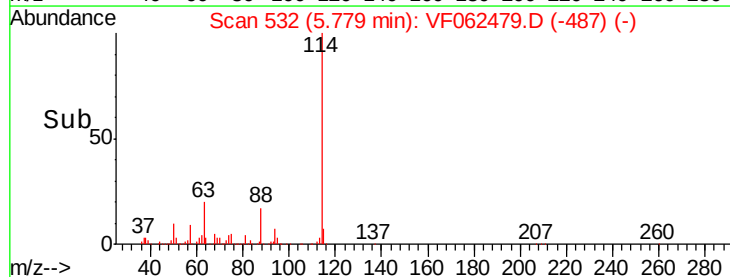
1000

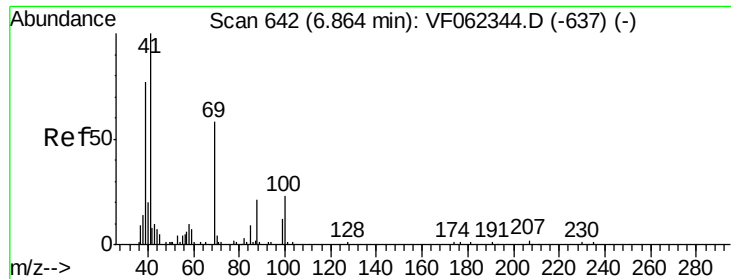
500

0

5.70 5.75 5.80 5.85

Time-->

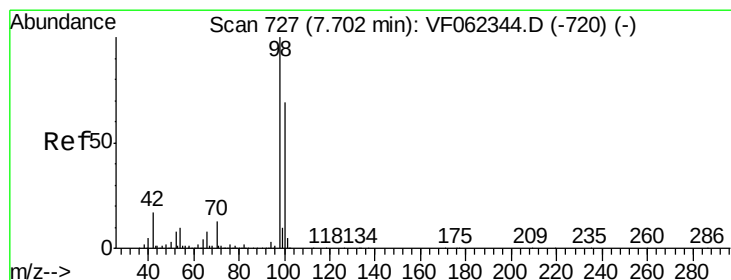
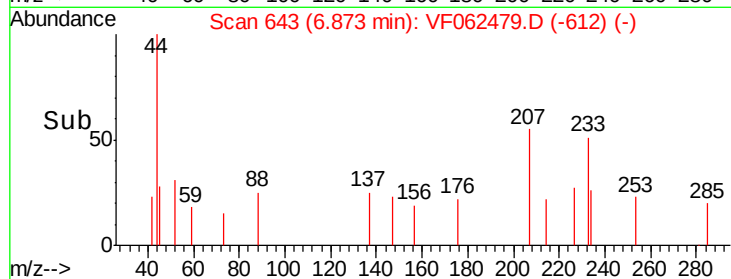
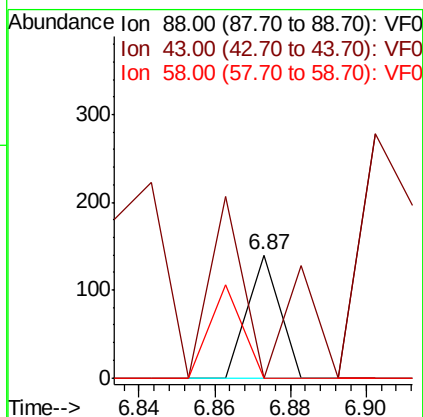
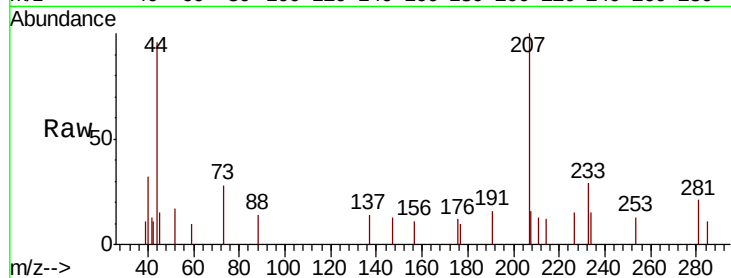




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

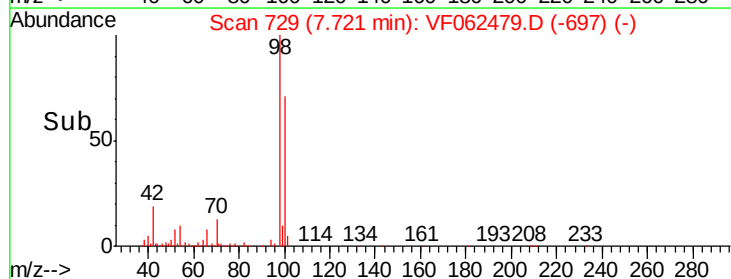
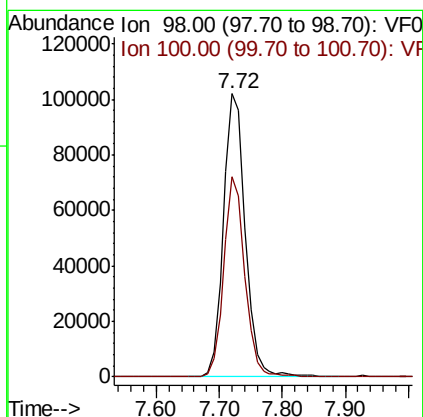
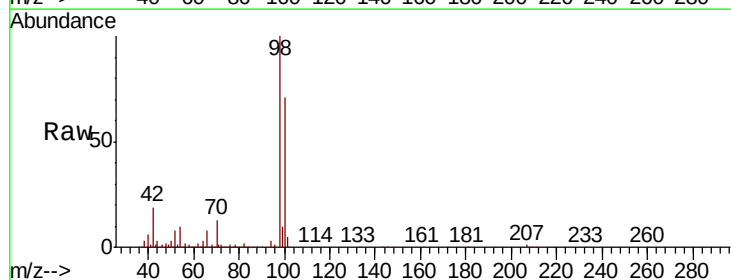
Instrument :
MSVOA_F
ClientSampleId :
P021-SS003-1218-01

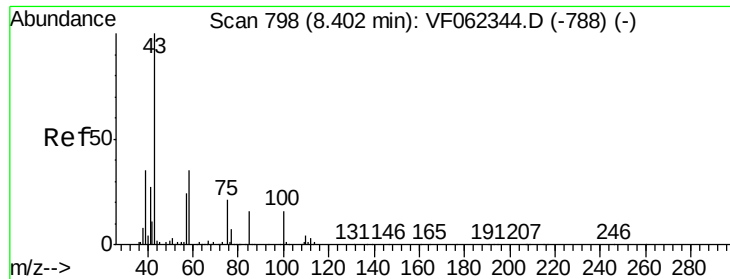
Tot Ion: 88 Resp: 83
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 75.9 52.8 79.2



#50
Toluene-d8
Concen: 38.862 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062479.D
Acq: 12 May 2019 1:31

Tgt Ion: 98 Resp: 245840
Ion Ratio Lower Upper
98 100
100 67.7 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 2.130 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

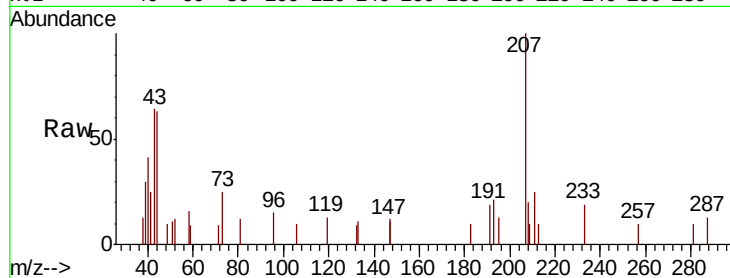
P021-SS003-1218-01

Tot Ion: 43 Resp: 2069

Ion Ratio Lower Upper

43 100

58 12.2 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

600

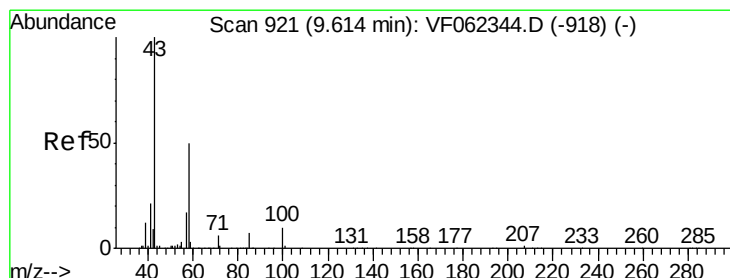
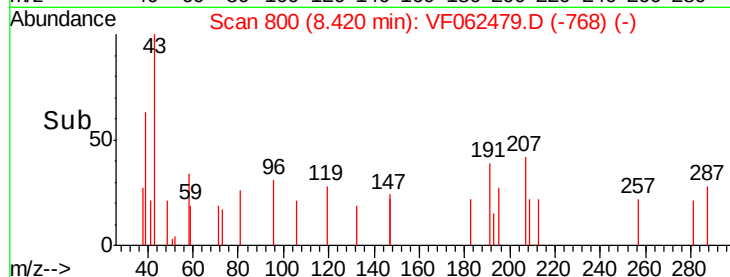
400

200

0

8.35 8.40 8.45 8.50

Time-->



#59

2-Hexanone

Concen: 2.599 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.03 min

Lab File: VF062479.D

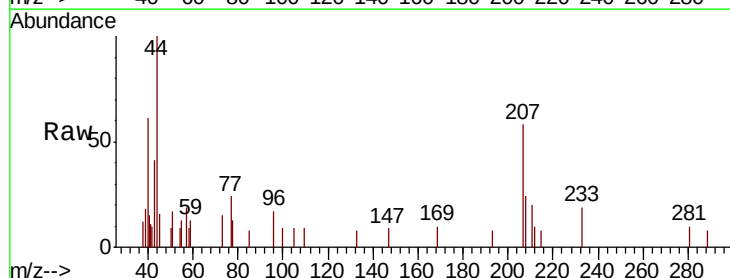
Acq: 12 May 2019 1:31

Tgt Ion: 43 Resp: 1746

Ion Ratio Lower Upper

43 100

58 22.6 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.64

600

500

400

300

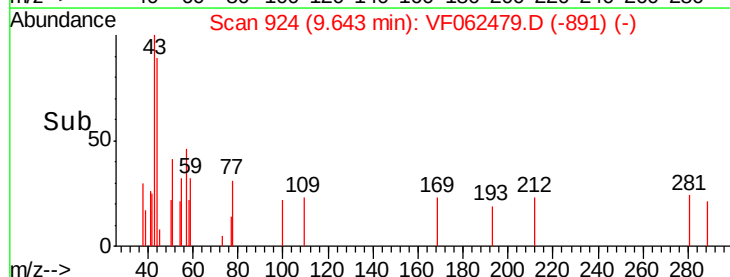
200

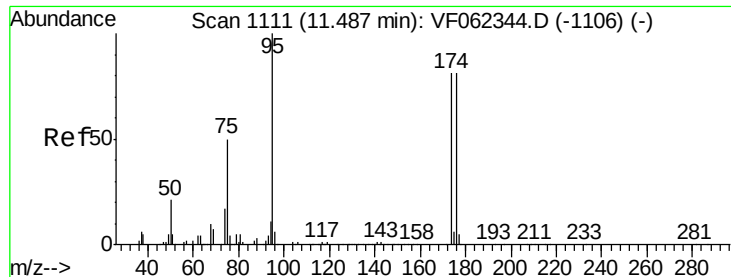
100

0

9.60 9.65 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 38.761 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

P021-SS003-1218-01

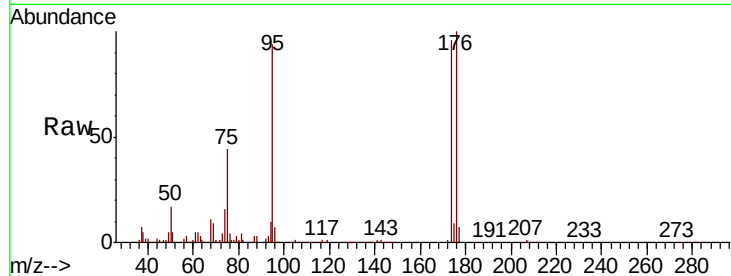
Tot Ion: 95 Resp: 110628

Ion Ratio Lower Upper

95 100

174 98.5 0.0 191.8

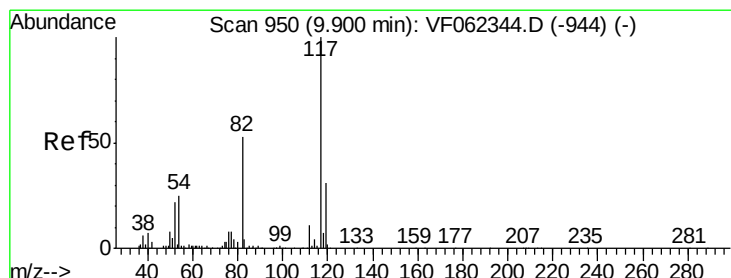
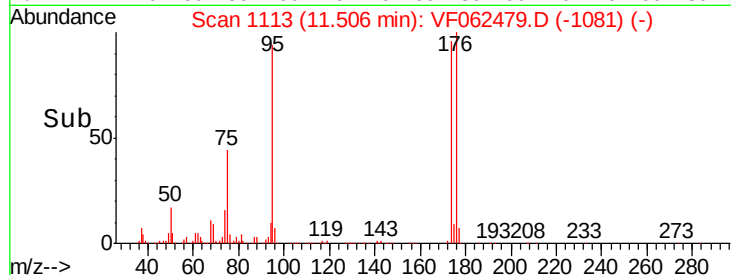
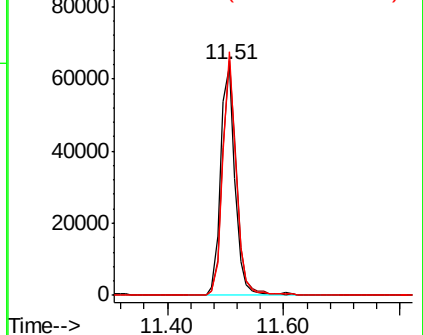
176 97.4 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062479.D

Acq: 12 May 2019 1:31

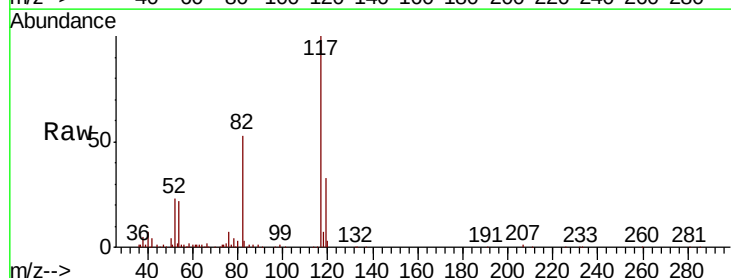
Tgt Ion: 117 Resp: 271289

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.2

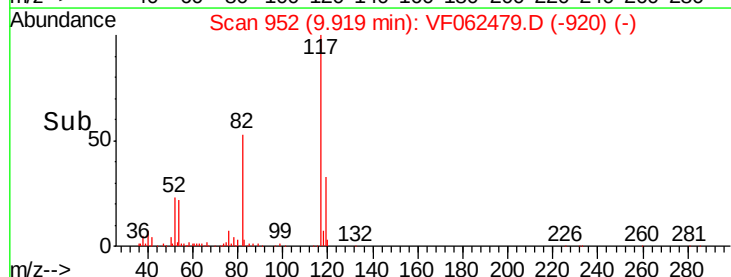
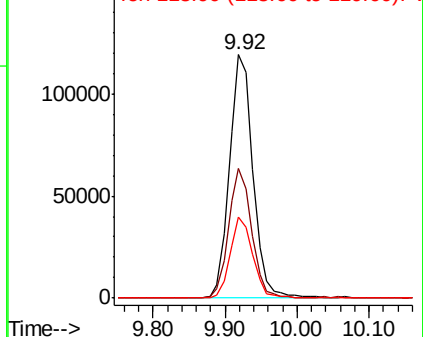
119 33.2 25.0 37.4

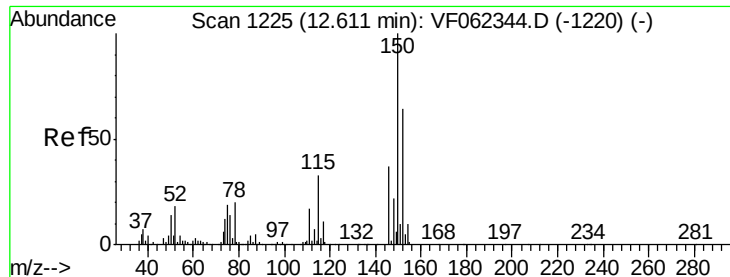


Abundance Ion 116.90 (116.60 to 117.60): V

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: VF062479.D

Acq: 12 May 2019 1:31

Instrument :

MSVOA_F

ClientSampleId :

P021-SS003-1218-01

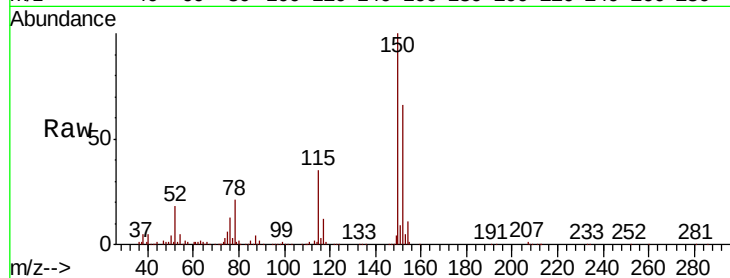
Tot Ion:152 Resp: 150702

Ion Ratio Lower Upper

152 100

115 55.1 26.4 79.2

150 158.2 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

