

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062453.D
 Acq On : 11 May 2019 11:52
 Operator : FY/SY
 Sample : VF0511SBL01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:44:42 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	333115	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	445270	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	411700	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	268175	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	167649	53.25	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.50%	
35) Dibromofluoromethane	4.32	113	210772	59.42	ug/l	0.02
Spiked Amount	50.000		Recovery	=	118.84%	
50) Toluene-d8	7.72	98	515107	59.99	ug/l	0.02
Spiked Amount	50.000		Recovery	=	119.98%	
62) 4-Bromofluorobenzene	11.50	95	221145	57.08	ug/l	0.02
Spiked Amount	50.000		Recovery	=	114.16%	

Target Compounds

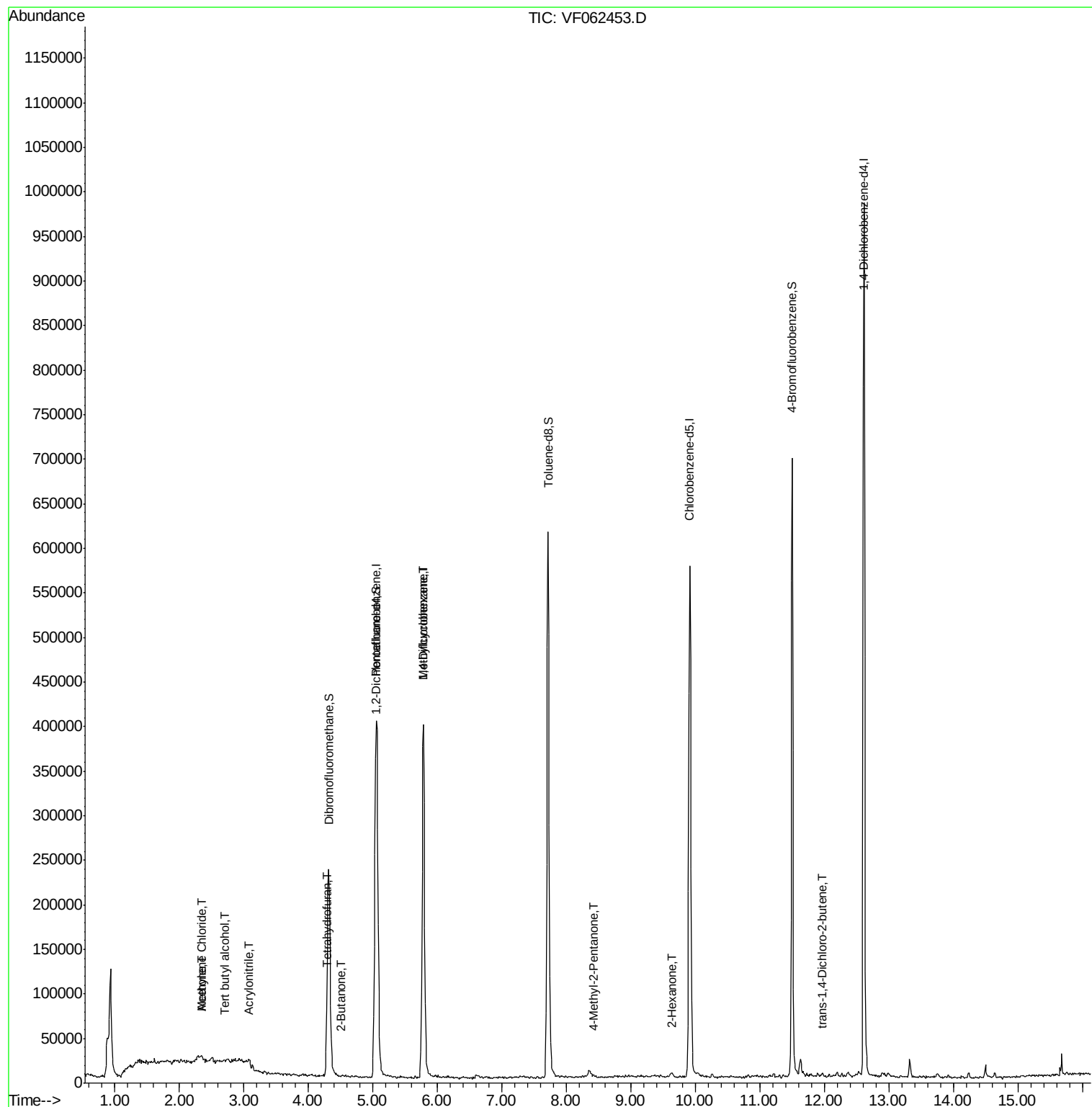
					Qvalue	
5) Bromomethane	1.43	94	528	Below Cal	#	31
11) Tert butyl alcohol	2.71	59	420	2.361	ug/l #	70
13) Acrolein	2.14	56	953	Below Cal	#	76
15) Acrylonitrile	3.06	53	1437	4.264	ug/l #	57
16) Acetone	2.35	43	4905	7.702	ug/l #	75
20) Methylene Chloride	2.34	84	2688	1.167	ug/l #	89
25) 2-Butanone	4.51	43	1203	1.504	ug/l #	60
29) Tetrahydrofuran	4.28	42	411	1.118	ug/l #	82
37) Ethyl Acetate	4.32	43	451	Below Cal	#	73
38) Carbon Tetrachloride	4.29	117	63	Below Cal	#	14
39) Methylcyclohexane	5.78	83	6553	1.708	ug/l #	37
49) 1,4-Dioxane	6.92	88	64	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.42	43	2145	1.627	ug/l	96
59) 2-Hexanone	9.63	43	3915	4.294	ug/l	68
81) trans-1,4-Dichloro-2-buten	11.96	75	886	1.241	ug/l #	5

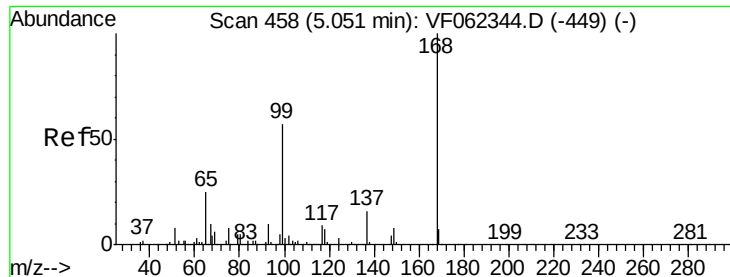
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 460

Delta R.T. 0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

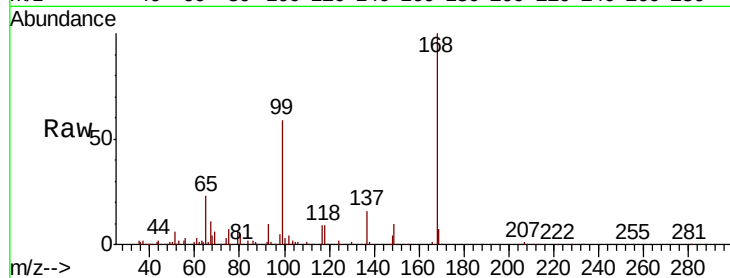
ClientSampleId :

Tot Ion:168 Resp: 333115

Ion Ratio Lower Upper

168 100

99 58.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

120000

100000

80000

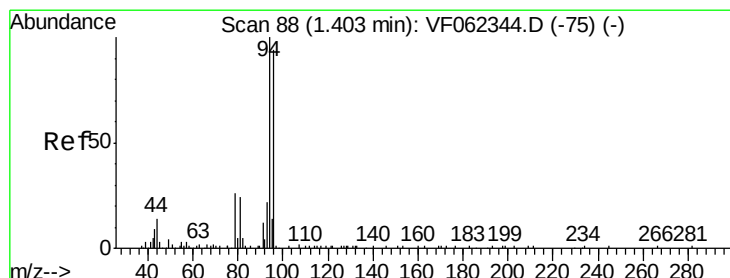
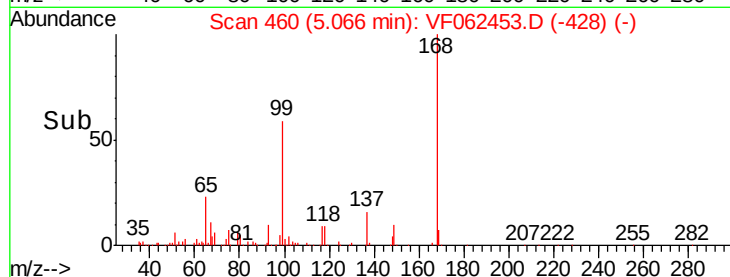
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.03 min

Lab File: VF062453.D

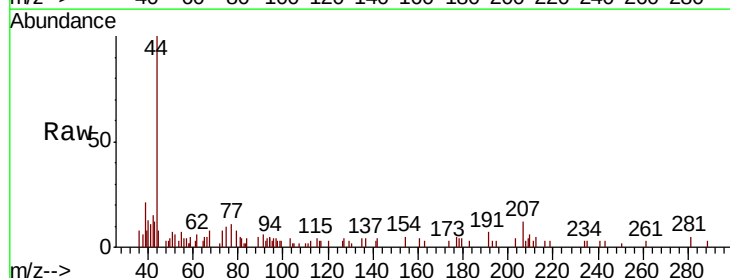
Acq: 11 May 2019 11:52

Tgt Ion: 94 Resp: 528

Ion Ratio Lower Upper

94 100

96 27.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

500

400

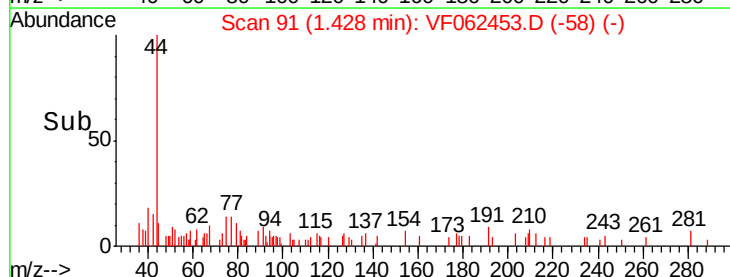
300

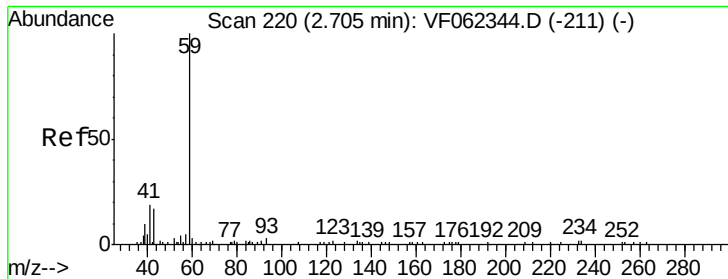
200

100

0

Time-->



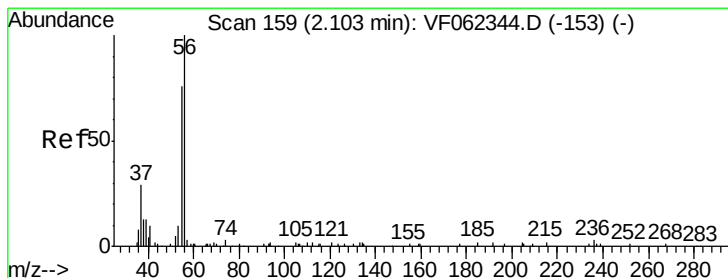
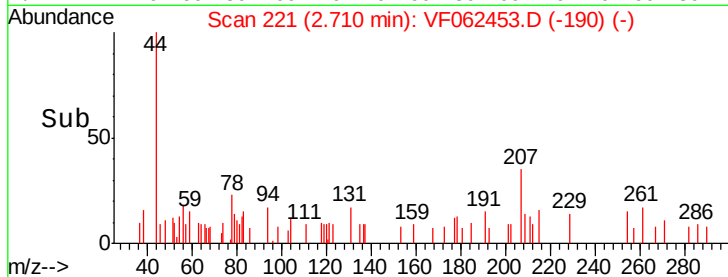
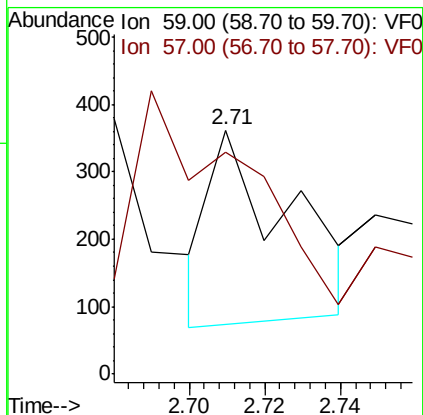
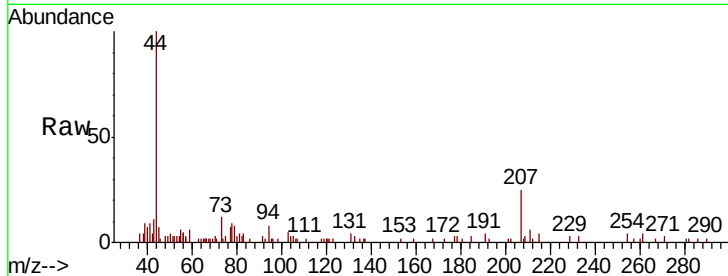


#11

Tert butyl alcohol
Concen: 2.361 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Instrument :
MSVOA_F
ClientSampled :

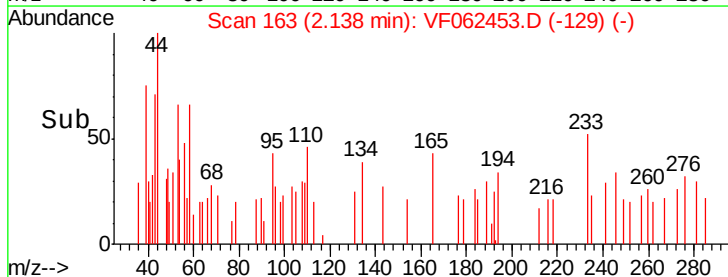
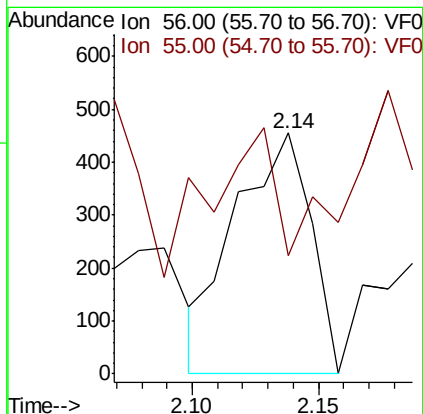
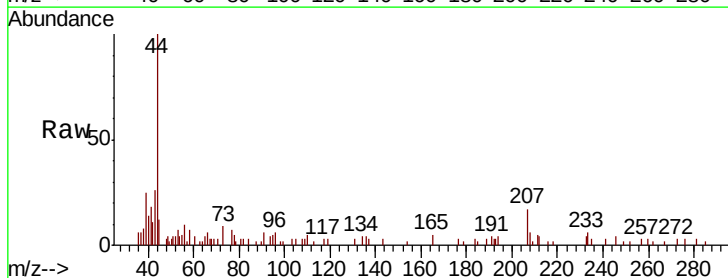
Tot Ion: 59 Resp: 420
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#

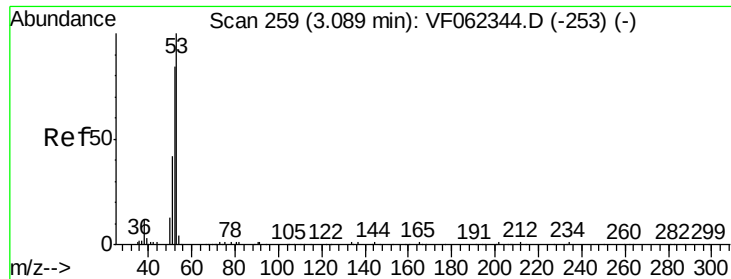


#13

Acrolein
Concen: Below Cal
RT: 2.14 min Scan# 163
Delta R.T. 0.04 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Tgt Ion: 56 Resp: 953
Ion Ratio Lower Upper
56 100
55 52.6 58.4 87.6#





#15

Acrylonitrile

Concen: 4.264 ug/l

RT: 3.06 min Scan# 257

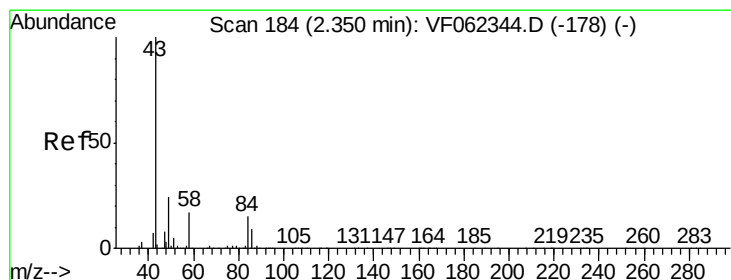
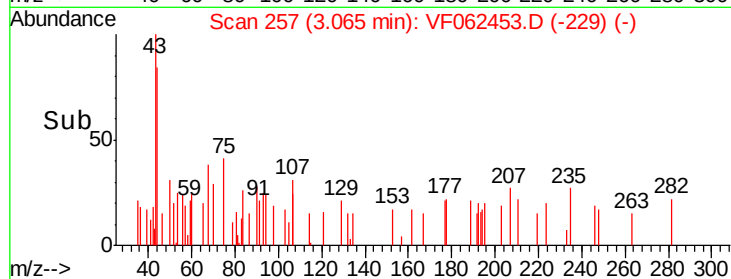
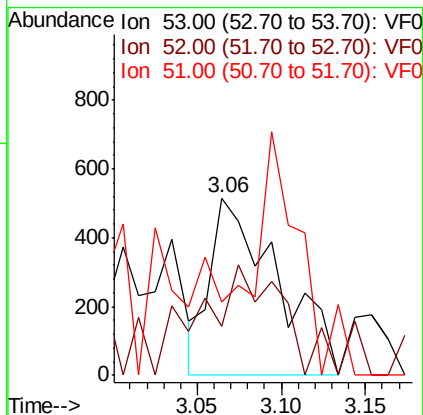
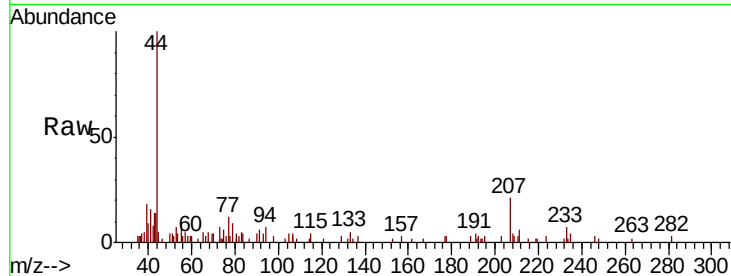
Delta R.T. -0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	1437
Ion	Ratio	Lower	Upper
53	100		
52	70.5	77.2	115.8#
51	0.0	40.6	61.0#



#16

Acetone

Concen: 7.702 ug/l

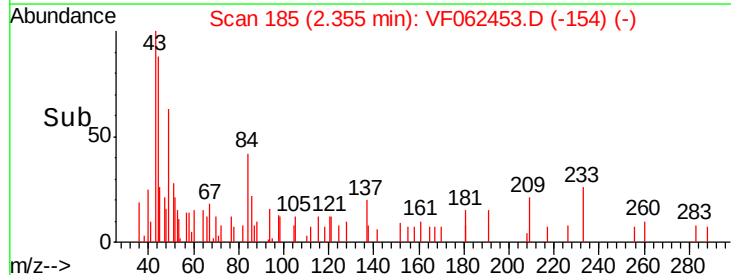
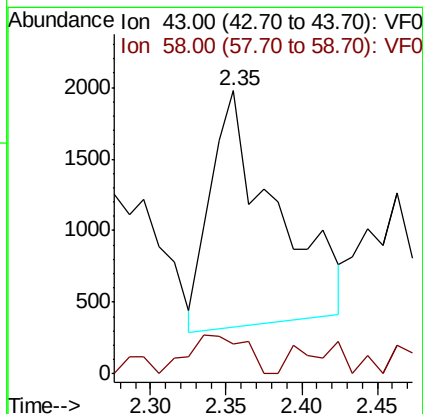
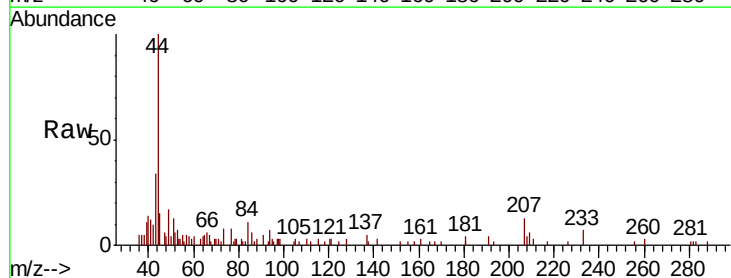
RT: 2.35 min Scan# 185

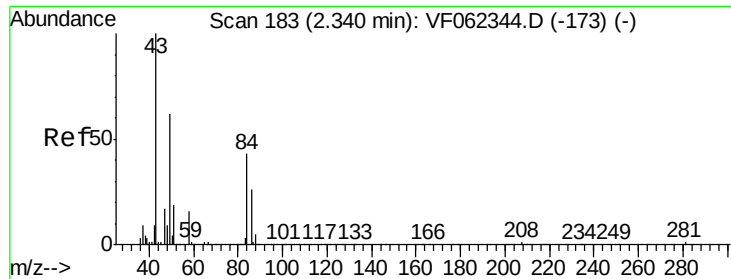
Delta R.T. 0.01 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Tgt Ion:	43	Resp:	4905
Ion	Ratio	Lower	Upper
43	100		
58	5.8	13.1	19.7#

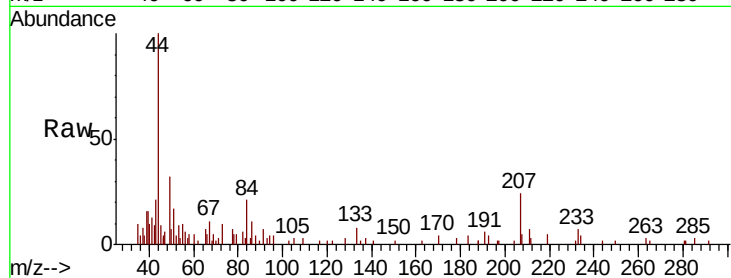




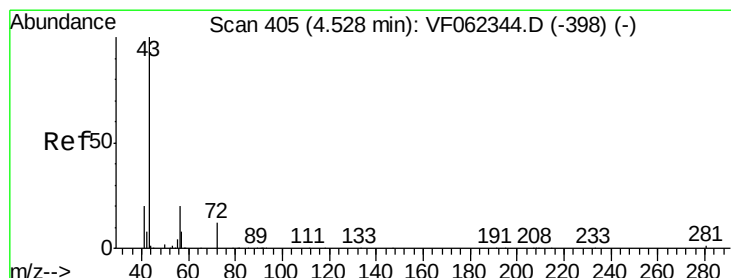
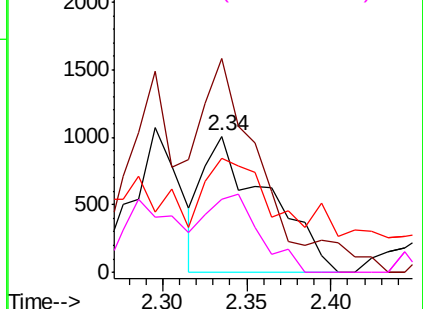
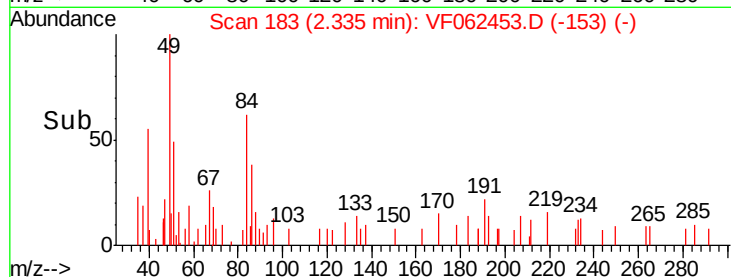
#20
Methylene Chloride
Concen: 1.167 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 2688
Ion Ratio Lower Upper
84 100
49 135.2 117.5 176.3
51 57.5 37.0 55.4#
86 53.2 49.3 73.9

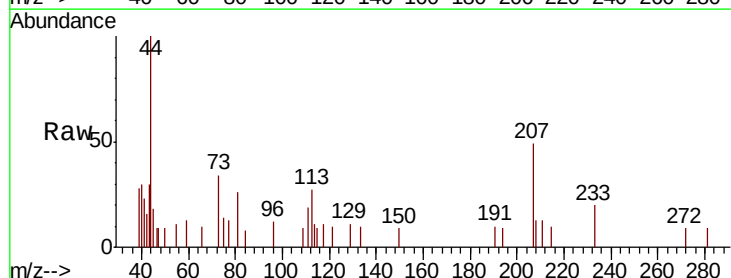


Abundance Ion 83.90 (83.60 to 84.60): VF0
Ion 48.90 (48.60 to 49.60): VF0
Ion 50.90 (50.60 to 51.60): VF0
Ion 85.90 (85.60 to 86.60): VF0

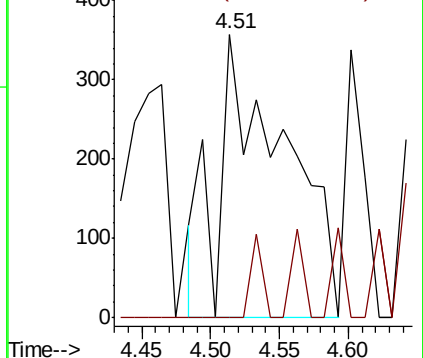
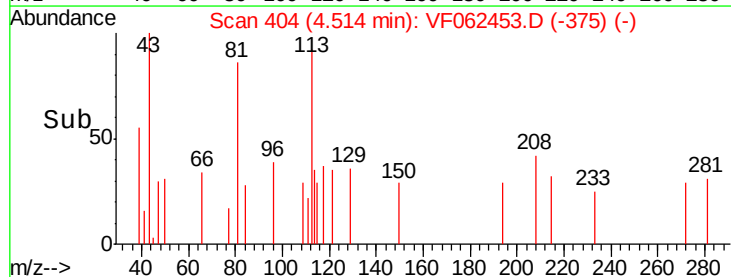


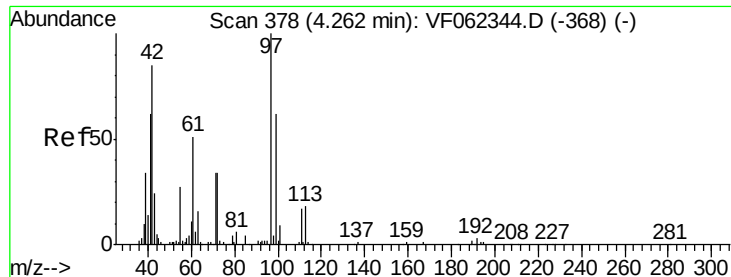
#25
2-Butanone
Concen: 1.504 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Tgt Ion: 43 Resp: 1203
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.118 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

ClientSampled :

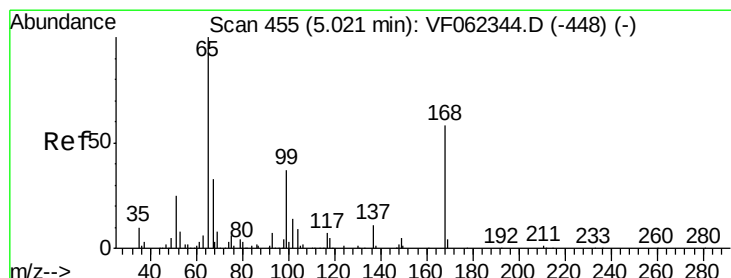
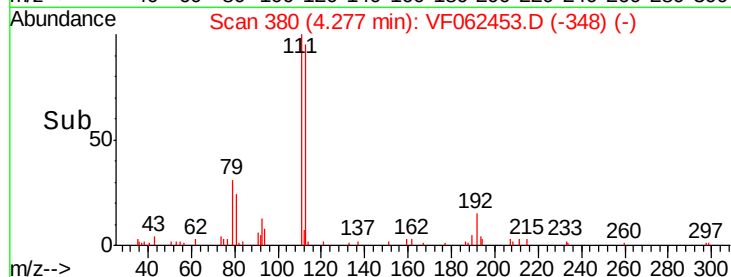
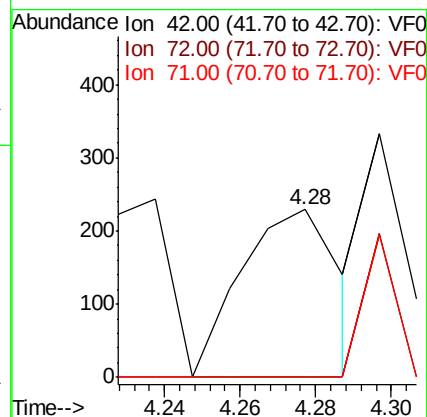
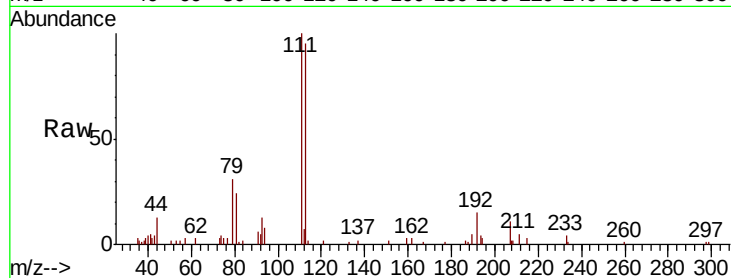
Tot Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 28.2 31.4 47.0#

71 28.0 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 53.254 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062453.D

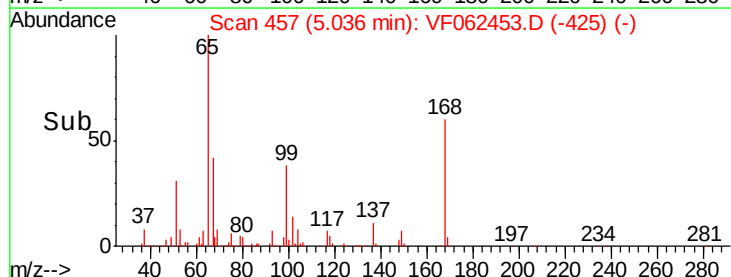
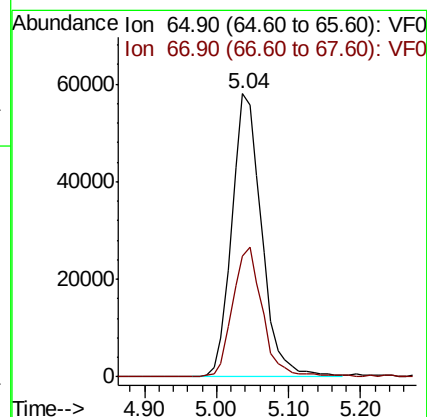
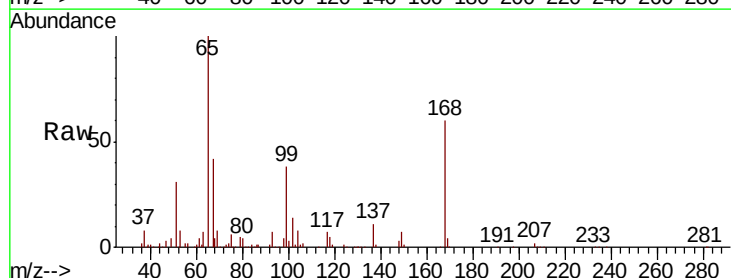
Acq: 11 May 2019 11:52

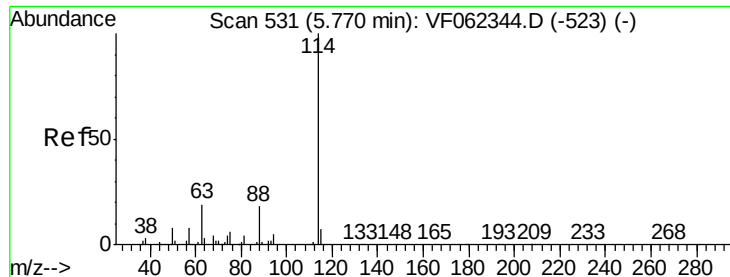
Tgt Ion: 65 Resp: 167649

Ion Ratio Lower Upper

65 100

67 46.0 0.0 85.8

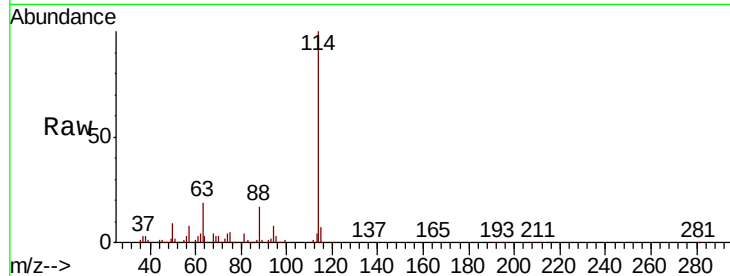




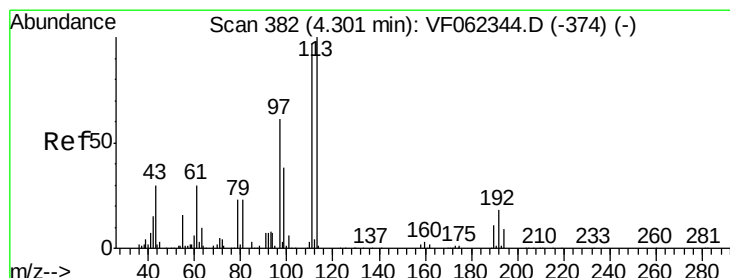
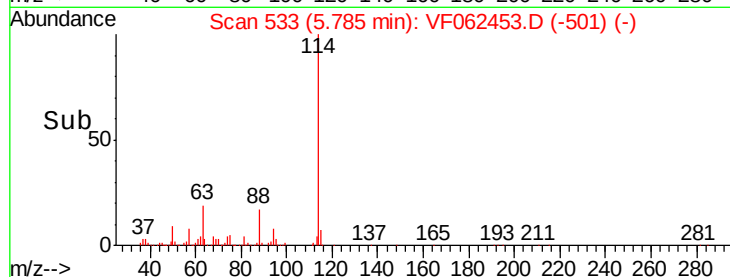
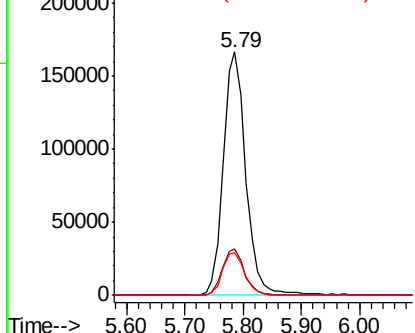
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062453.D
 Acq: 11 May 2019 11:52

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:114 Resp: 445270
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.4
 88 17.3 0.0 36.4

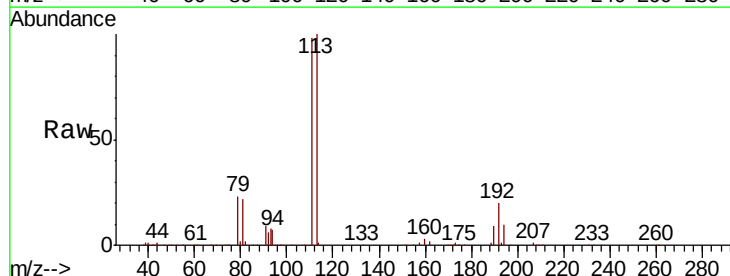


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 87.90 (87.60 to 88.60): VF0

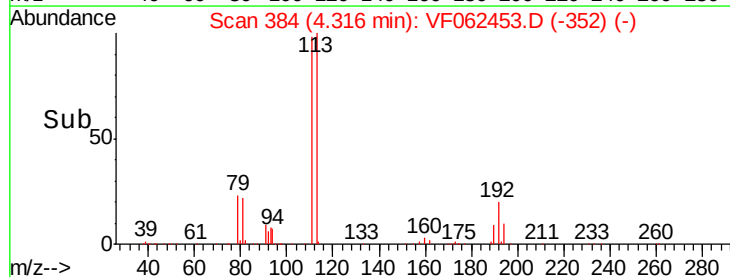
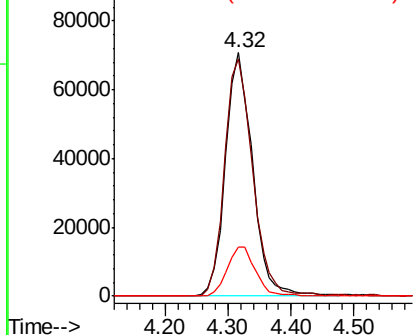


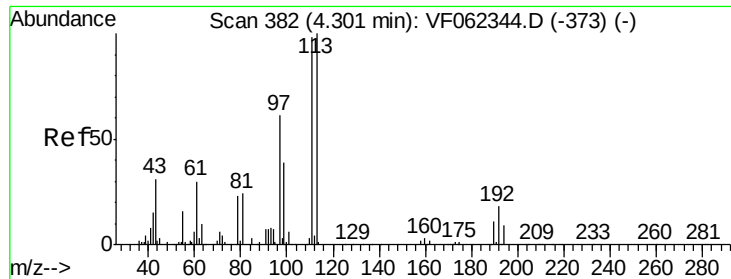
#35
 Dibromofluoromethane
 Concen: 59.416 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062453.D
 Acq: 11 May 2019 11:52

Tgt Ion:113 Resp: 210772
 Ion Ratio Lower Upper
 113 100
 111 101.2 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: 4.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

ClientSampleId :

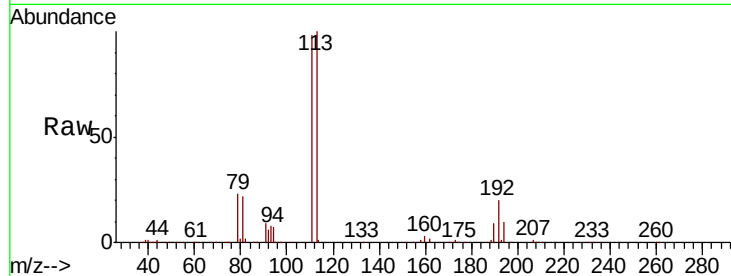
Tot Ion: 43 Resp: 451

Ion Ratio Lower Upper

43 100

61 14.2 0.0 0.0#

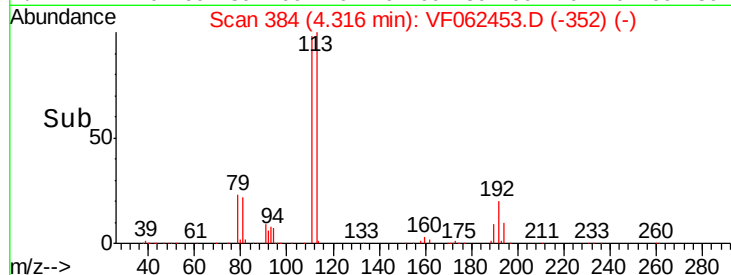
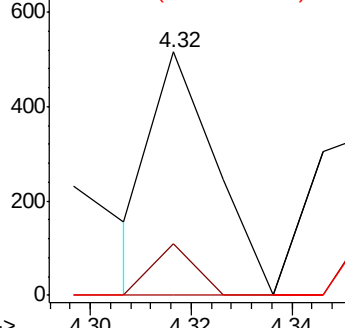
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.29 min Scan# 381

Delta R.T. 0.10 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

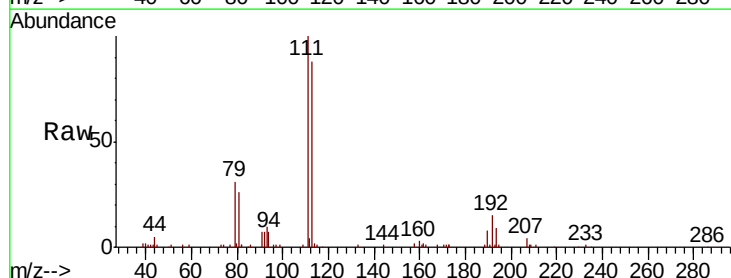
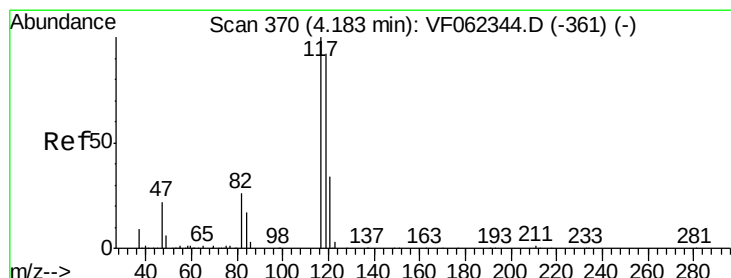
Tgt Ion: 117 Resp: 63

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

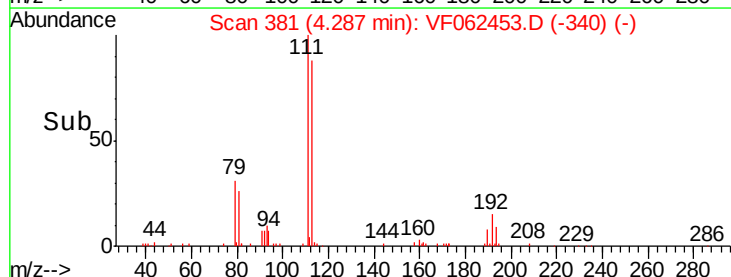
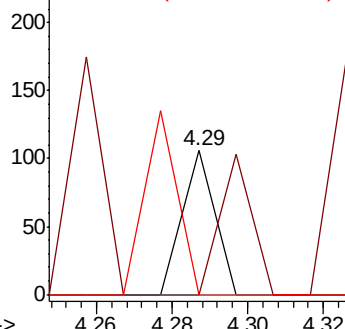
121 0.0 27.4 41.0#

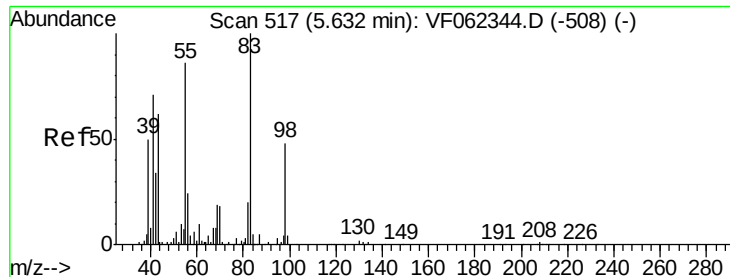


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 1.708 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.14 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

ClientSampleId :

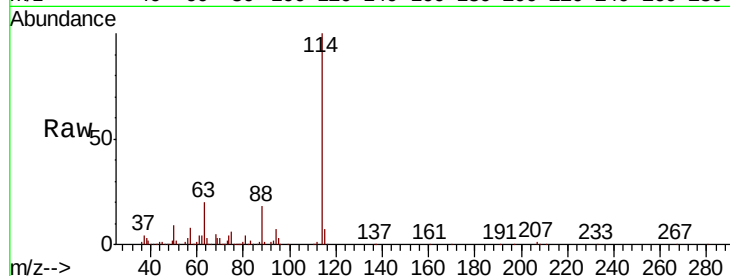
Tot Ion: 83 Resp: 6553

Ion Ratio Lower Upper

83 100

55 32.1 69.0 103.6#

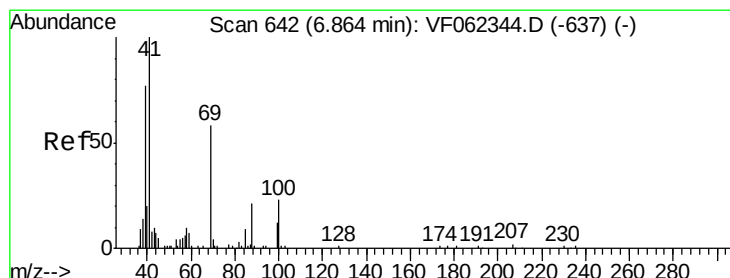
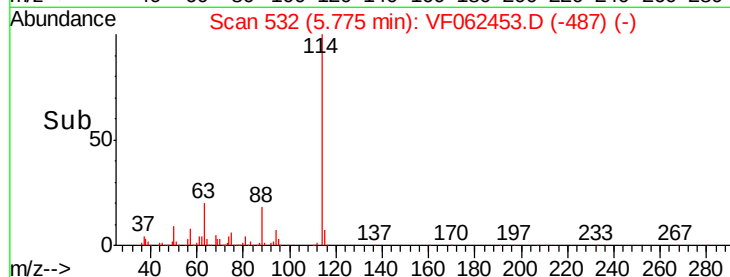
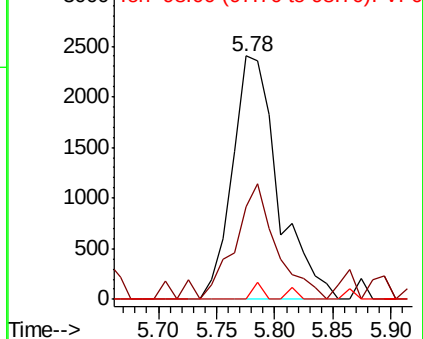
98 0.0 38.6 58.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.92 min Scan# 648

Delta R.T. 0.05 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

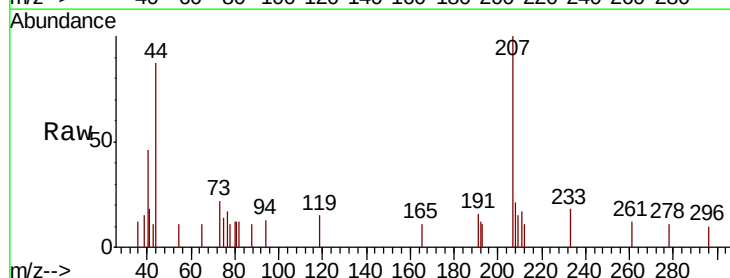
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 873.4 55.6 83.4#

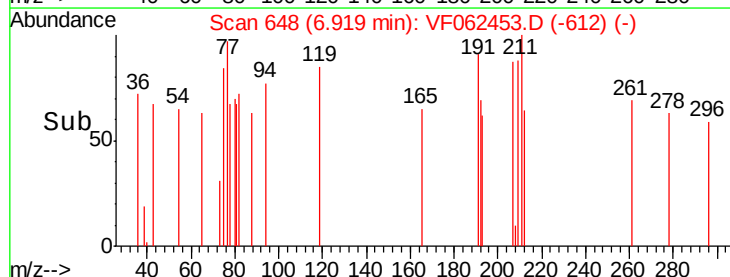
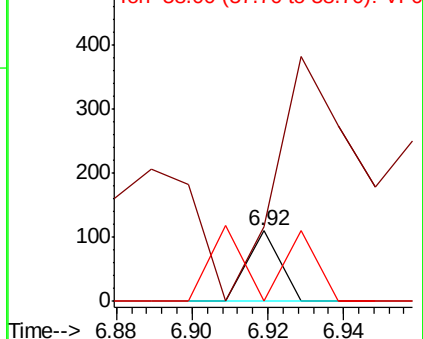
58 209.4 52.8 79.2#

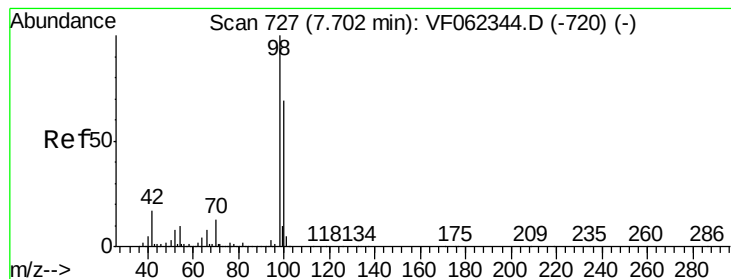


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 59.987 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

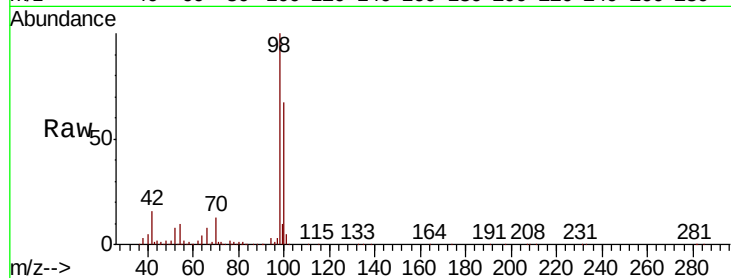
ClientSampled :

Tot Ion: 98 Resp: 515107

Ion Ratio Lower Upper

98 100

100 66.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

250000

200000

150000

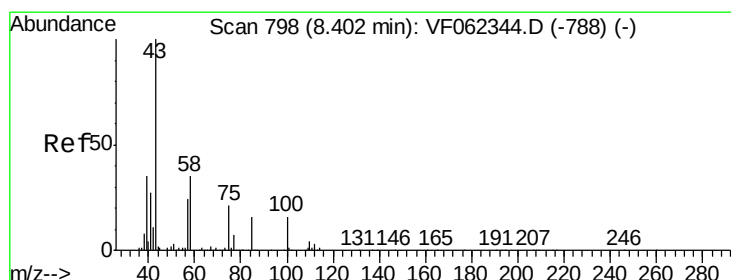
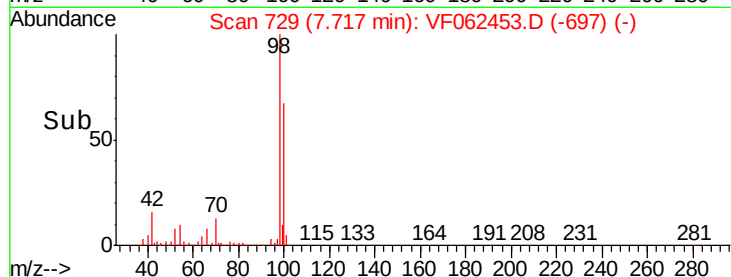
100000

50000

0

Time-->

7.60 7.70 7.80 7.90 8.00



#51

4-Methyl-2-Pentanone

Concen: 1.627 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062453.D

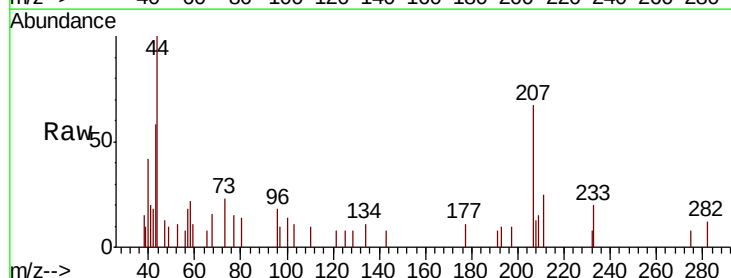
Acq: 11 May 2019 11:52

Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

58 32.4 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

800

600

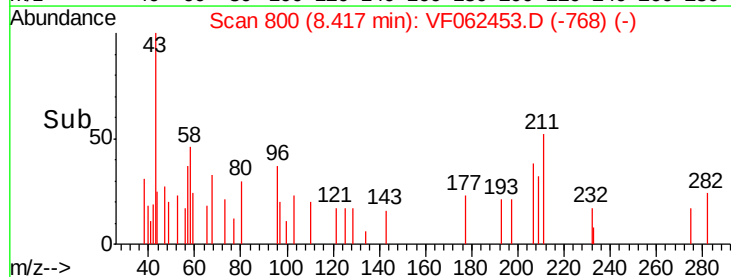
400

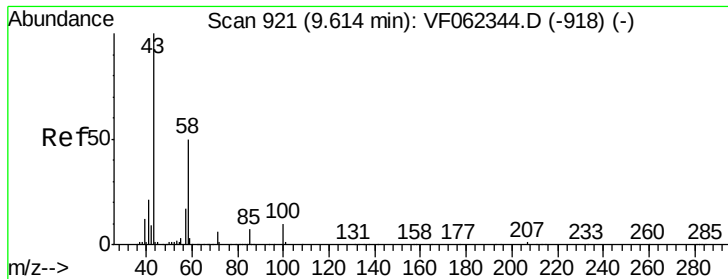
200

0

Time-->

8.35 8.40 8.45

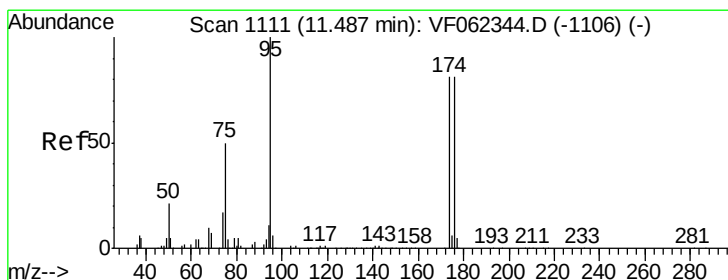
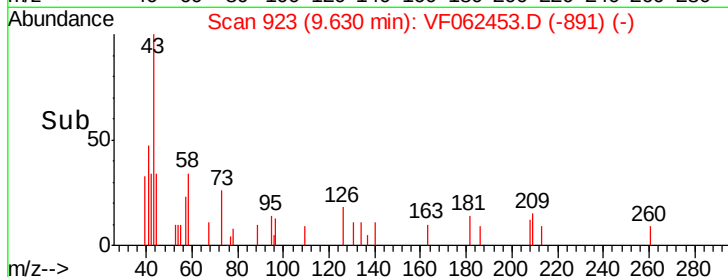
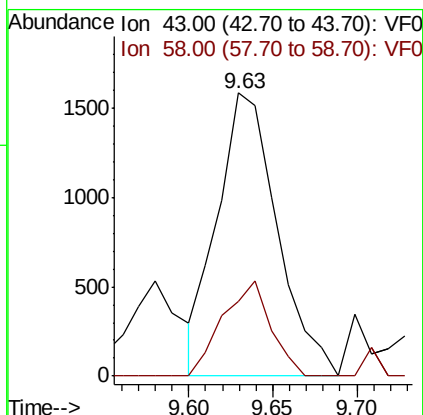
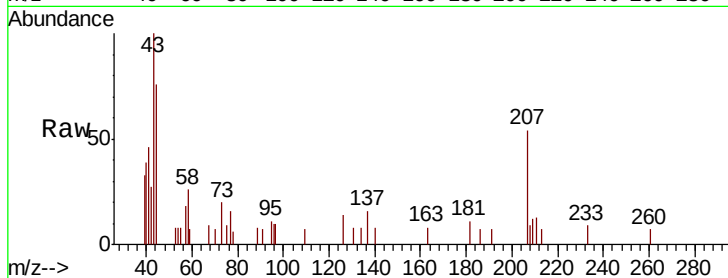




#59
2-Hexanone
Concen: 4.294 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

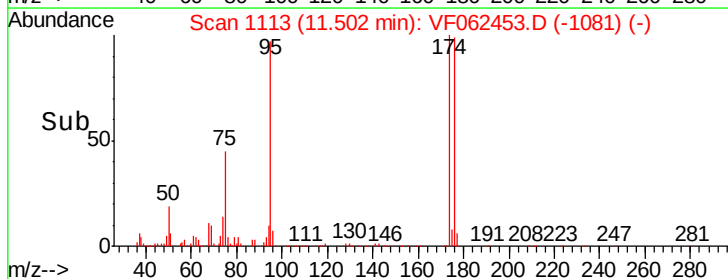
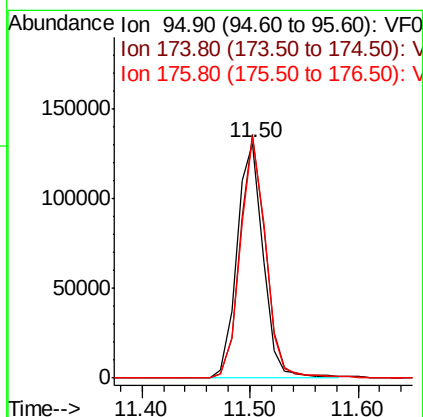
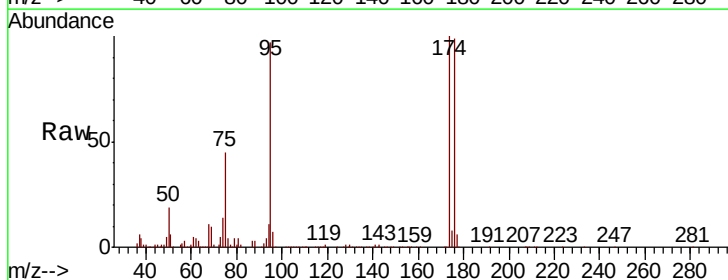
Instrument :
MSVOA_F
ClientSampleId :

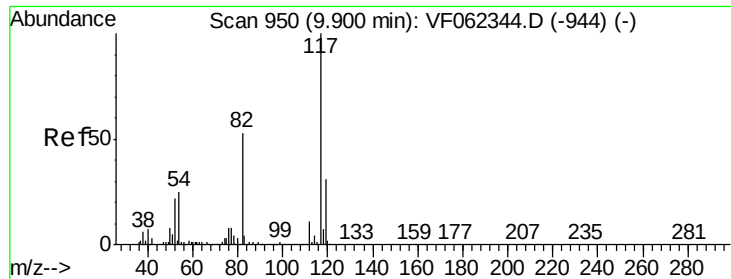
Tot Ion: 43 Resp: 3915
Ion Ratio Lower Upper
43 100
58 27.1 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 57.082 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Tgt Ion: 95 Resp: 221145
Ion Ratio Lower Upper
95 100
174 100.2 0.0 191.8
176 98.9 0.0 193.2

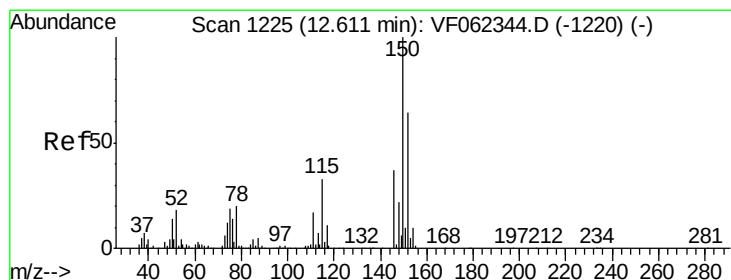
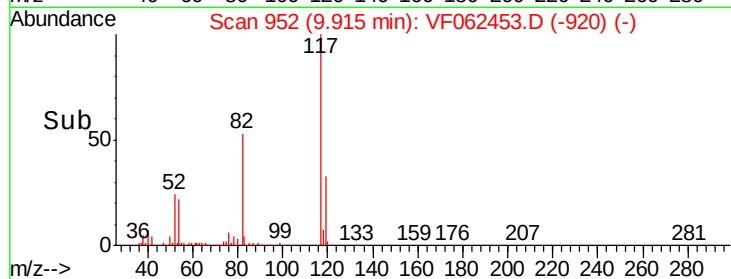
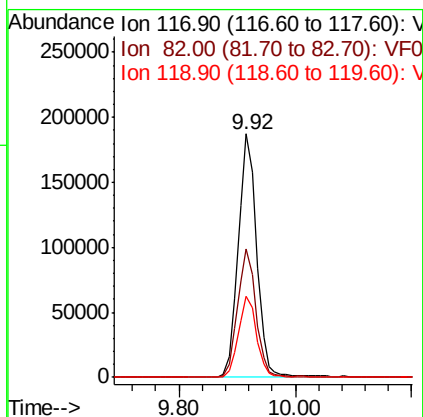
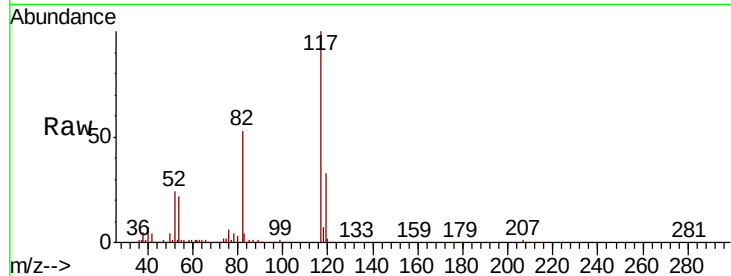




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

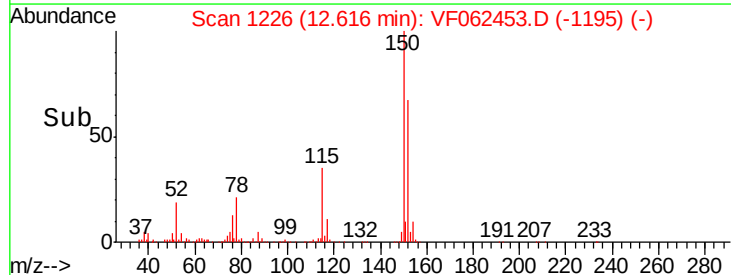
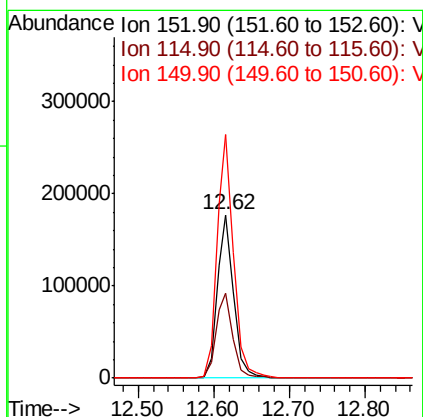
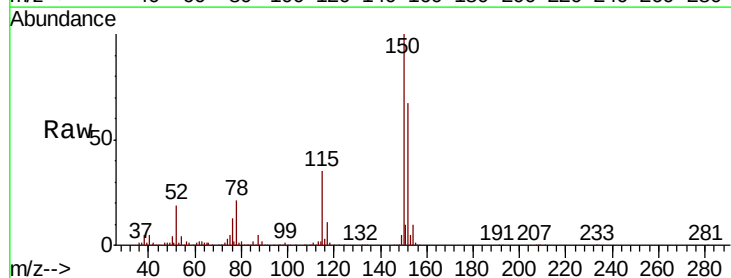
Instrument :
MSVOA_F
ClientSampleId :

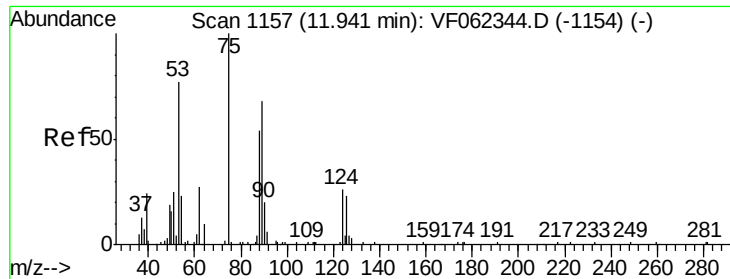
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.2
119	33.0	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062453.D
Acq: 11 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	26.4	79.2
150	151.3	0.0	335.0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.241 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062453.D

Acq: 11 May 2019 11:52

Instrument :

MSVOA_F

ClientSampleId :

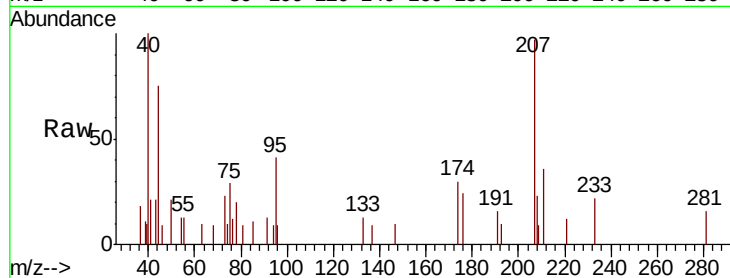
Tot Ion: 75 Resp: 886

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

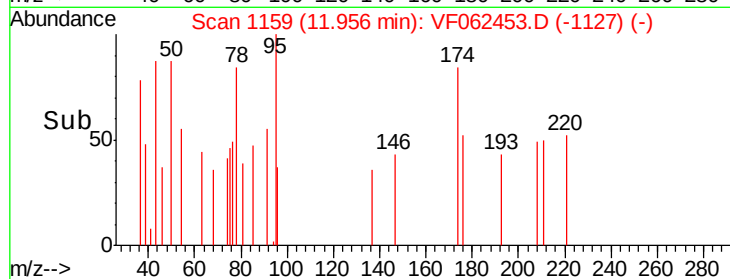
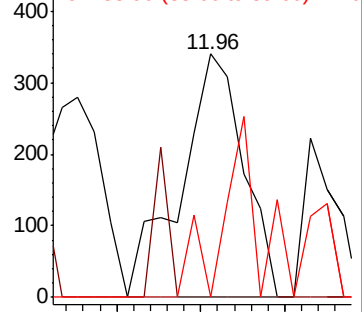
89 42.6 0.0 0.0#



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



Time-->