

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062472.D
 Acq On : 11 May 2019 20:51
 Operator : FY/SY
 Sample : K2734-20
 Misc : 5.94/5mL/MSVOA F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:49:45 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	142103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	217948	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	172639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	85006	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	101955	75.92	ug/l	0.02
Spiked Amount			Recovery	=	151.84%	
35) Dibromofluoromethane	4.31	113	117582	67.72	ug/l	0.00
Spiked Amount			Recovery	=	135.44%	
50) Toluene-d8	7.71	98	145011	34.50	ug/l	0.00
Spiked Amount			Recovery	=	69.00%	
62) 4-Bromofluorobenzene	11.50	95	63912	33.70	ug/l	0.00
Spiked Amount			Recovery	=	67.40%	

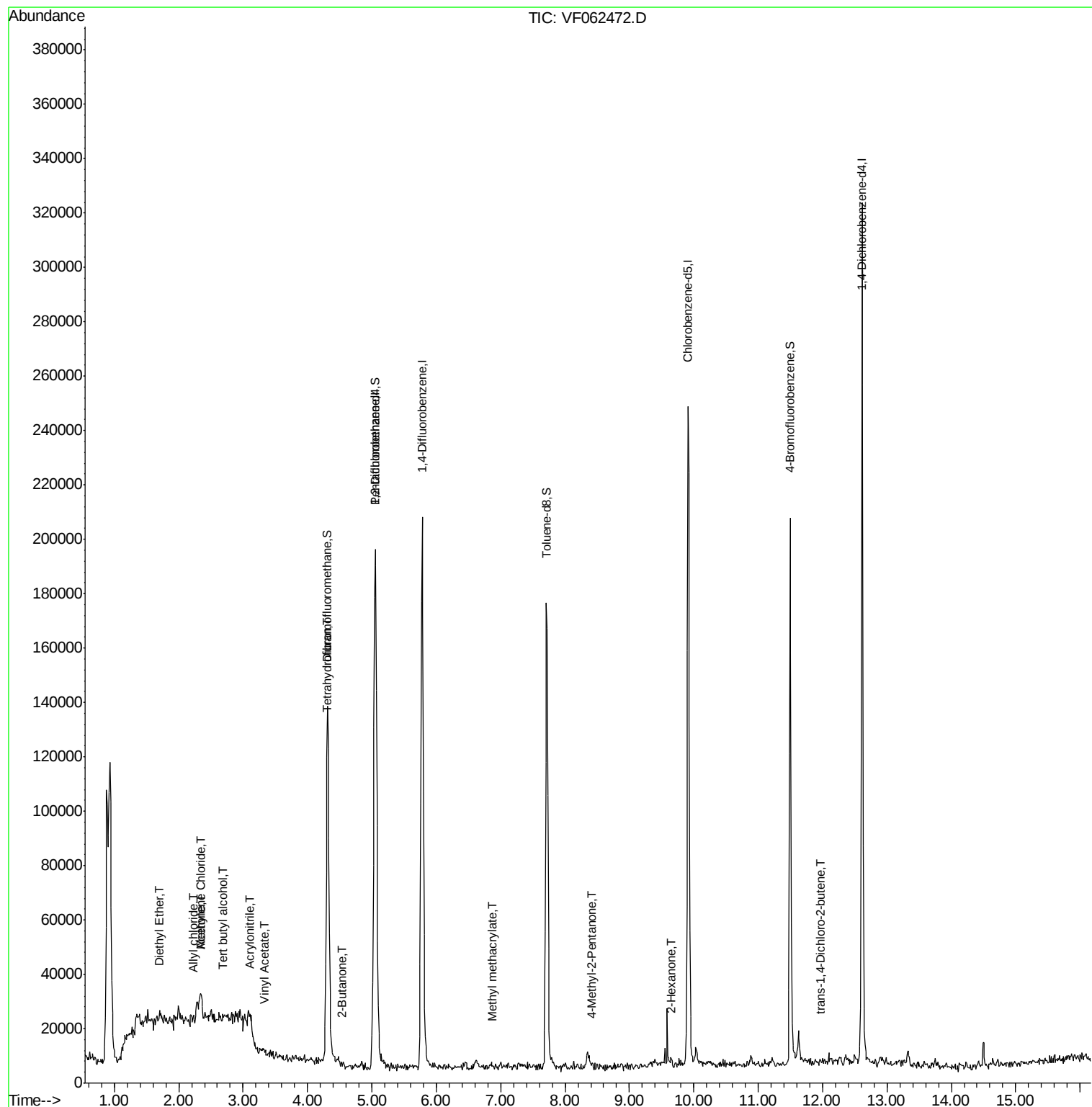
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	325	Below Cal	#	70
8) Diethyl Ether	1.69	74	416	1.225	ug/l	72
11) Tert butyl alcohol	2.69	59	564	7.431	ug/l #	70
13) Acrolein	2.11	56	336	Below Cal	#	13
14) Allyl chloride	2.21	41	970	1.008	ug/l #	55
15) Acrylonitrile	3.10	53	320	2.226	ug/l #	1
16) Acetone	2.35	43	6058	22.299	ug/l #	90
20) Methylene Chloride	2.33	84	3846	3.913	ug/l #	79
23) Vinyl Acetate	3.34	43	1378	1.028	ug/l #	79
25) 2-Butanone	4.53	43	671	1.966	ug/l #	86
29) Tetrahydrofuran	4.29	42	288	1.836	ug/l #	85
37) Ethyl Acetate	4.30	43	975	Below Cal	#	73
38) Carbon Tetrachloride	4.17	117	102	Below Cal	#	75
48) Methyl methacrylate	6.87	41	676	1.123	ug/l #	30
49) 1,4-Dioxane	6.75	88	71	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.42	43	738	1.144	ug/l #	60
59) 2-Hexanone	9.64	43	939	2.104	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.95	75	254	1.122	ug/l #	46

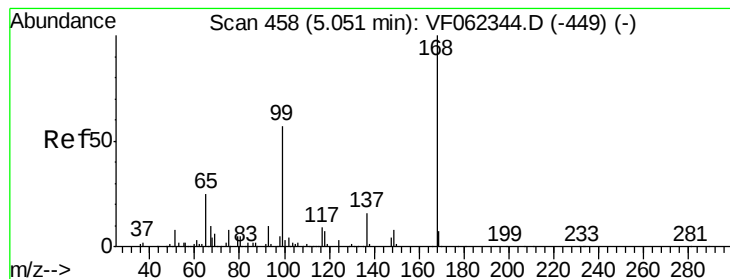
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051119\
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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

Instrument :

MSVOA_F

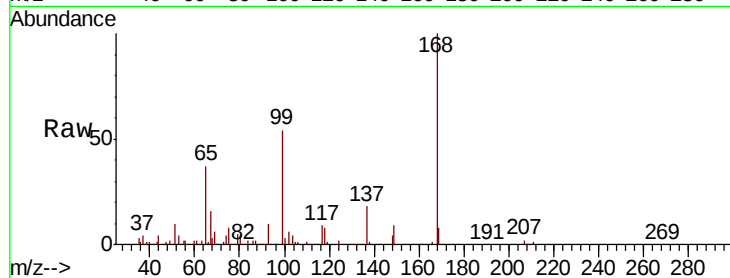
ClientSampled :

Tot Ion:168 Resp: 142103

Ion Ratio Lower Upper

168 100

99 53.7 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

40000

30000

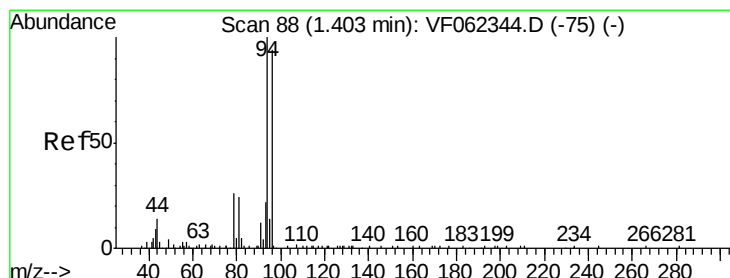
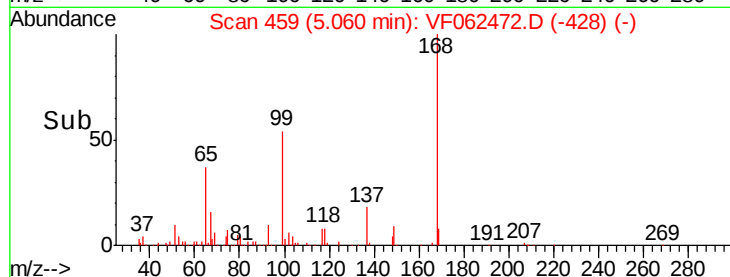
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062472.D

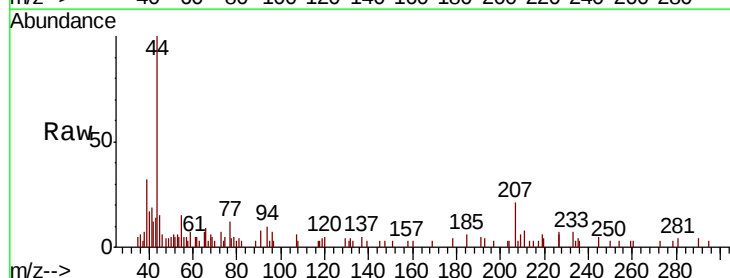
Acq: 11 May 2019 20:51

Tgt Ion: 94 Resp: 325

Ion Ratio Lower Upper

94 100

96 65.3 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

400

300

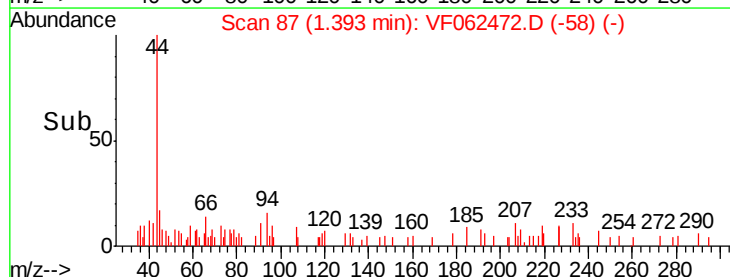
200

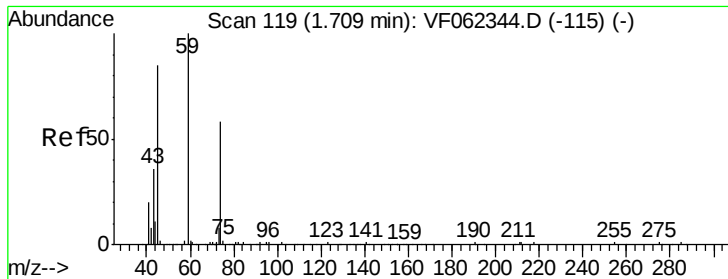
100

0

1.36 1.38 1.40 1.42

Time-->





#8

Diethyl Ether

Concen: 1.225 ug/l

RT: 1.69 min Scan# 117

Delta R.T. -0.02 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

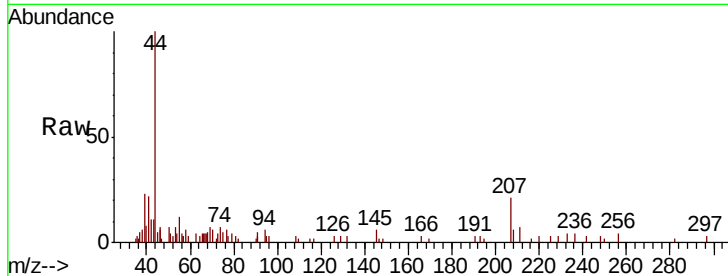
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 416

Ion Ratio Lower Upper

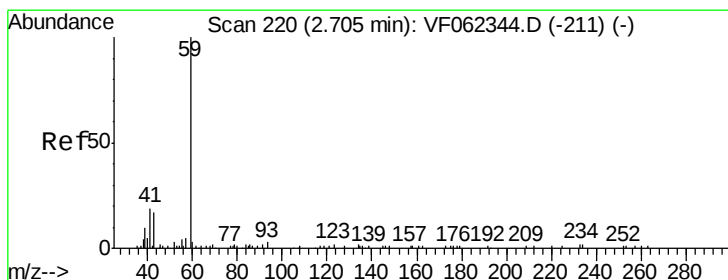
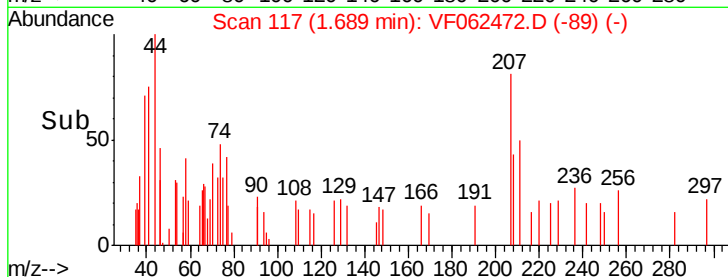
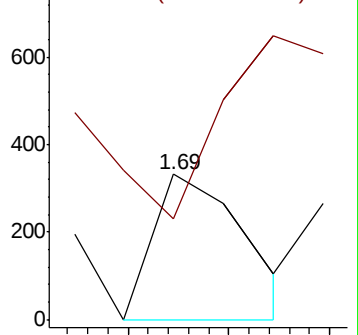
74 100

45 183.2 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: 7.431 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062472.D

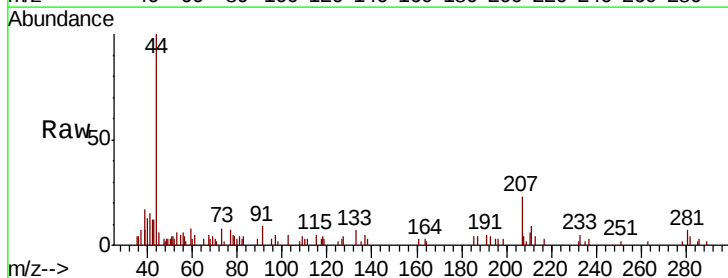
Acq: 11 May 2019 20:51

Tgt Ion: 59 Resp: 564

Ion Ratio Lower Upper

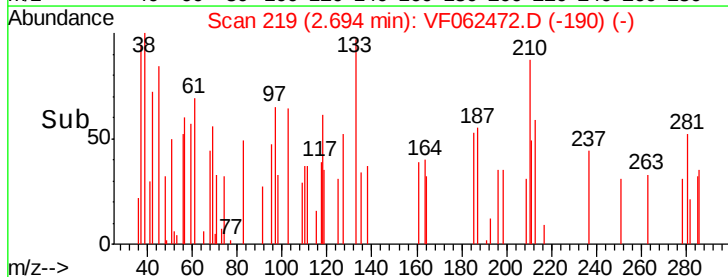
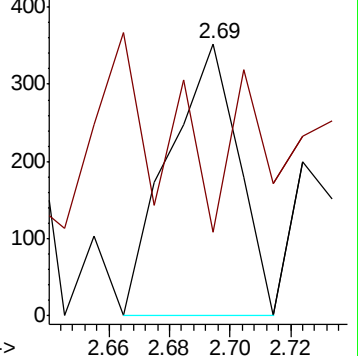
59 100

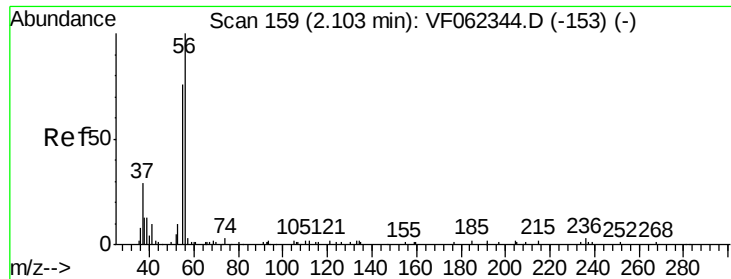
57 0.0 9.3 13.9#



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: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

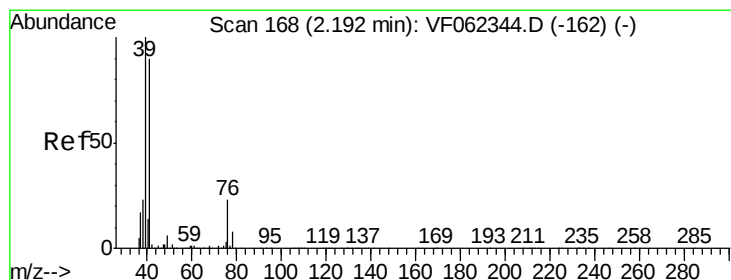
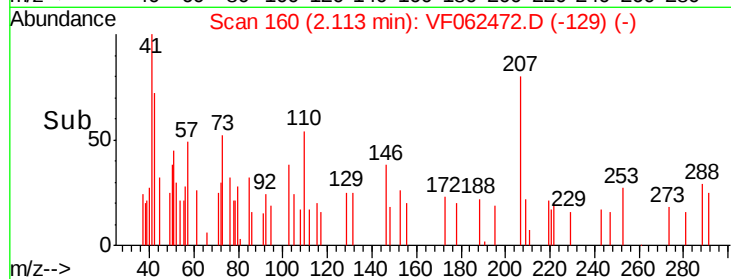
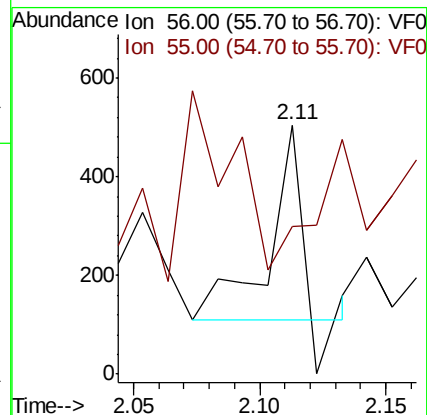
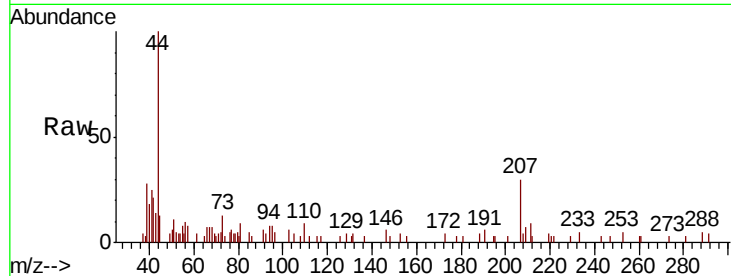
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 336

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#14

Allyl chloride

Concen: 1.008 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

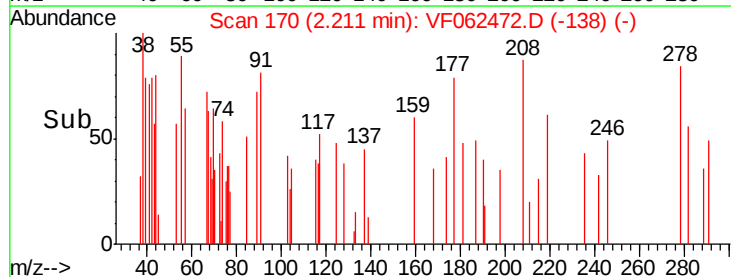
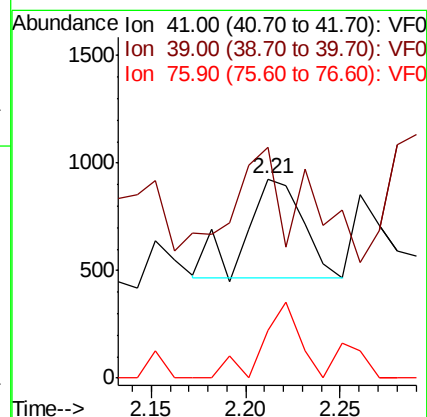
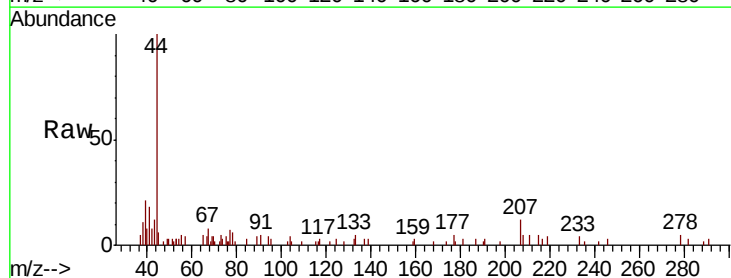
Tgt Ion: 41 Resp: 970

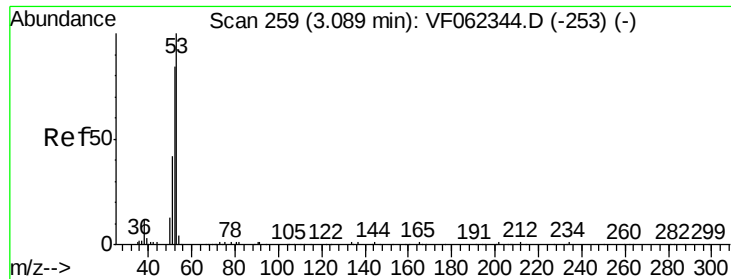
Ion Ratio Lower Upper

41 100

39 64.5 90.8 136.2#

76 49.3 22.2 33.4#





#15

Acrylonitrile

Concen: 2.226 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

Instrument :
MSVOA_F
ClientSampleId :

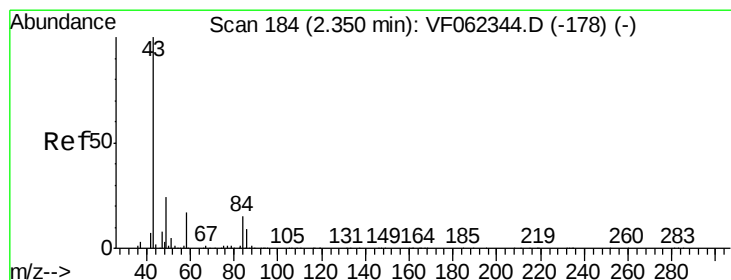
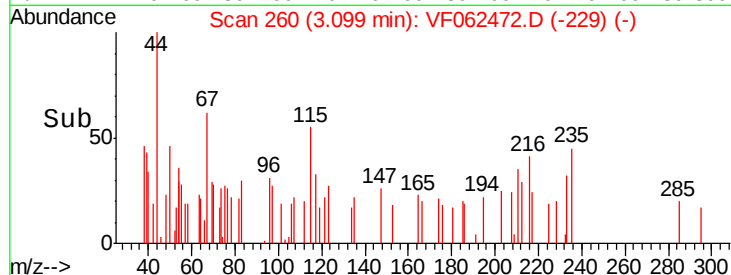
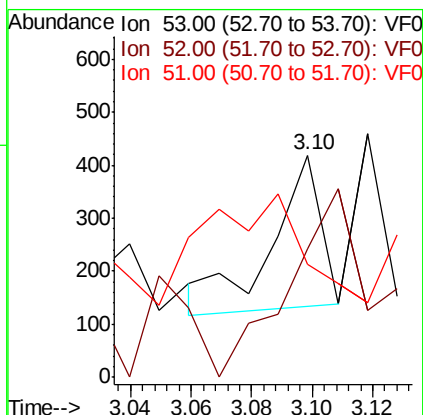
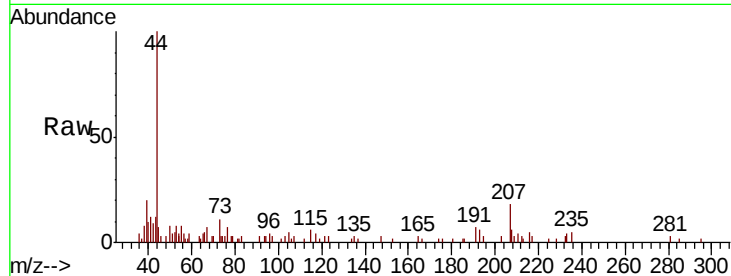
Tot Ion: 53 Resp: 320

Ion Ratio Lower Upper

53 100

52 206.6 77.2 115.8#

51 230.3 40.6 61.0#



#16

Acetone

Concen: 22.299 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062472.D

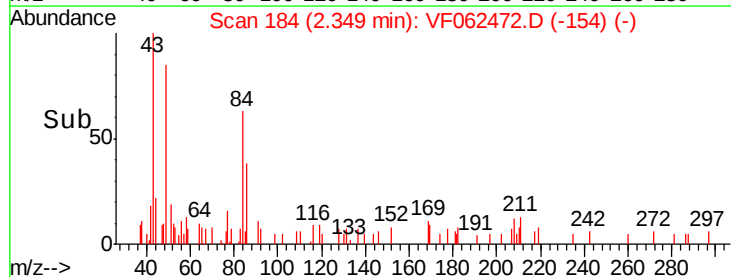
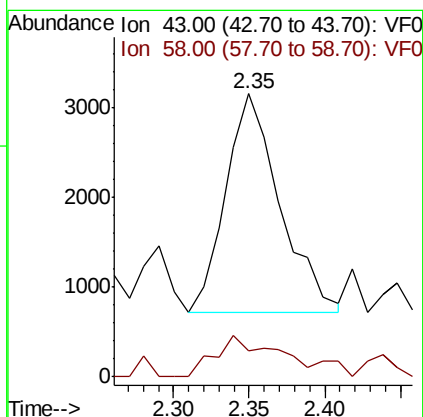
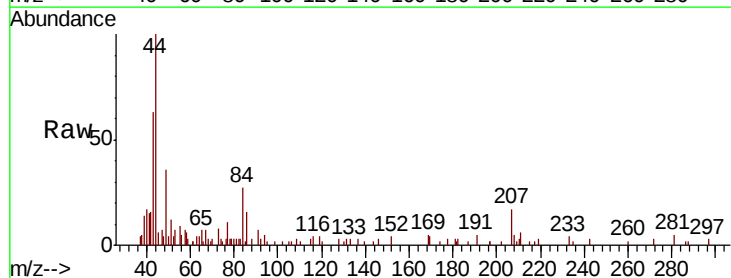
Acq: 11 May 2019 20:51

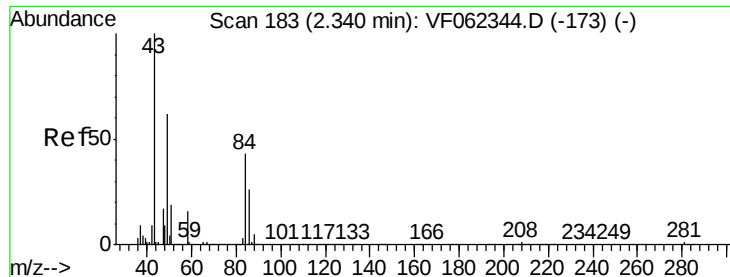
Tgt Ion: 43 Resp: 6058

Ion Ratio Lower Upper

43 100

58 12.0 13.1 19.7#

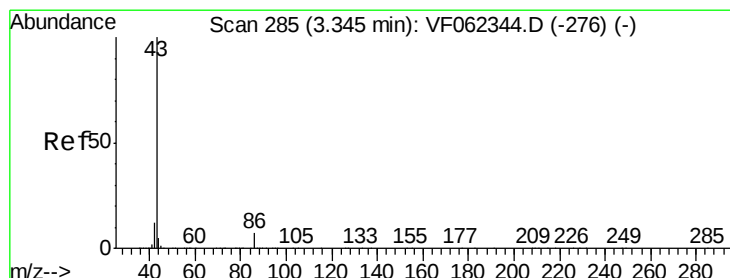
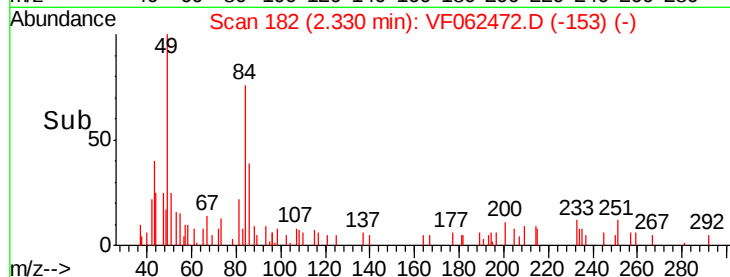
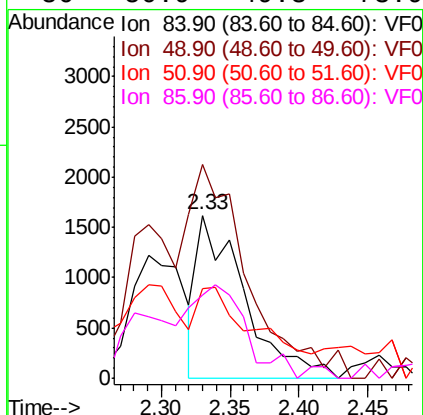
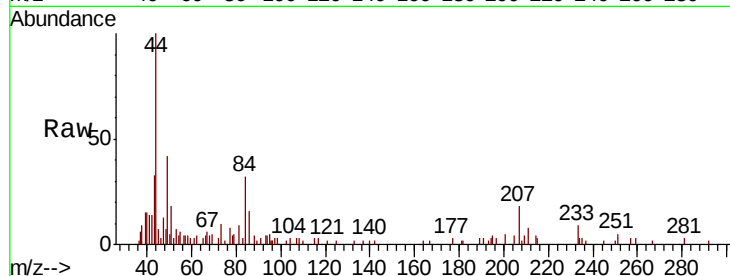




#20
Methvlene Chloride
Concen: 3.913 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062472.D
Acq: 11 May 2019 20:51

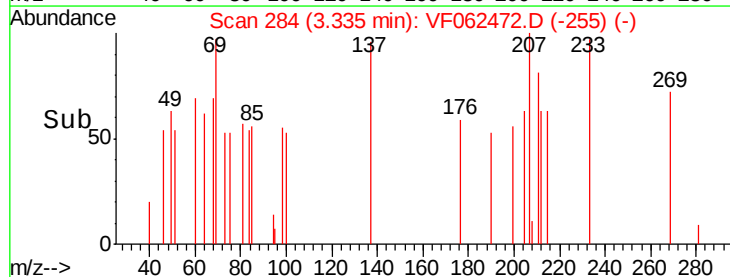
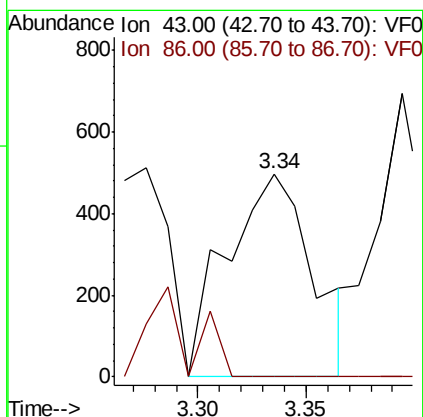
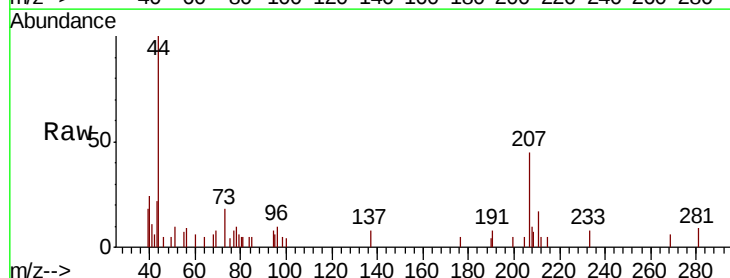
Instrument :
MSVOA_F
ClientSampled :

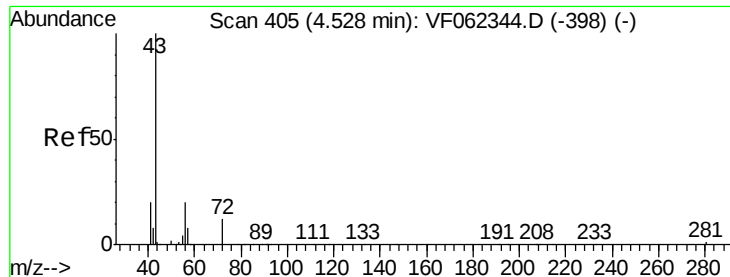
Tot Ion: 84 Resp: 3846
Ion Ratio Lower Upper
84 100
49 114.0 117.5 176.3#
51 36.6 37.0 55.4#
86 50.9 49.3 73.9



#23
Vinyl Acetate
Concen: 1.028 ug/l
RT: 3.34 min Scan# 284
Delta R.T. -0.01 min
Lab File: VF062472.D
Acq: 11 May 2019 20:51

Tgt Ion: 43 Resp: 1378
Ion Ratio Lower Upper
43 100
86 0.0 5.7 8.5#





#25

2-Butanone

Concen: 1.966 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

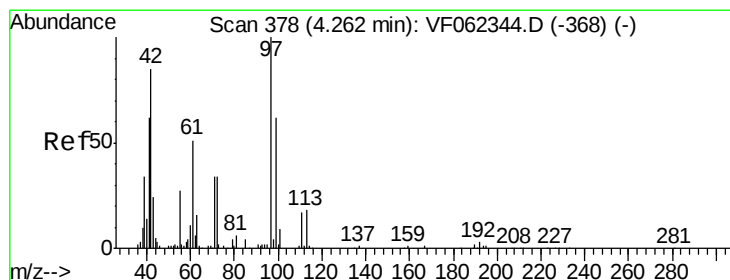
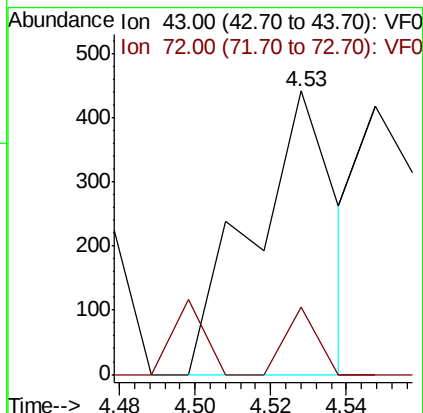
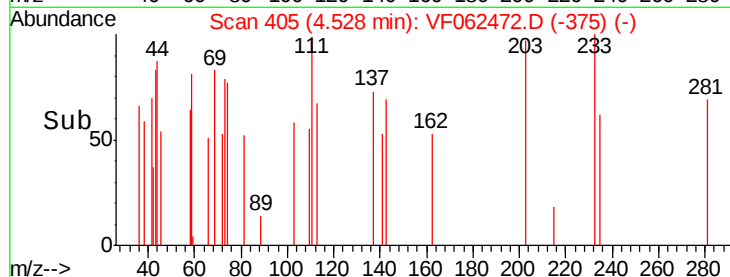
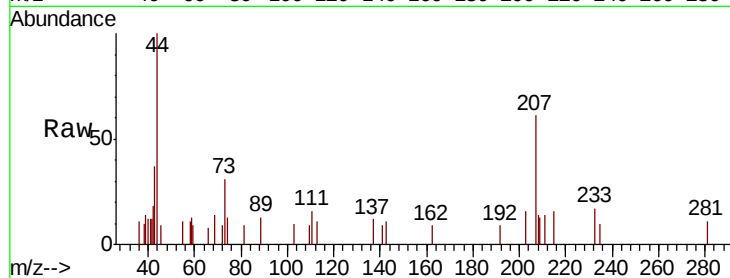
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 671

Ion Ratio Lower Upper

43 100

72 23.8 14.2 21.4#



#29

Tetrahydrofuran

Concen: 1.836 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

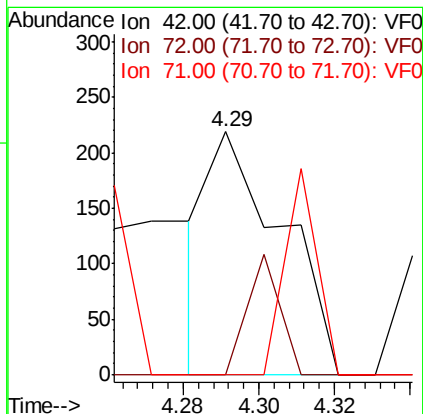
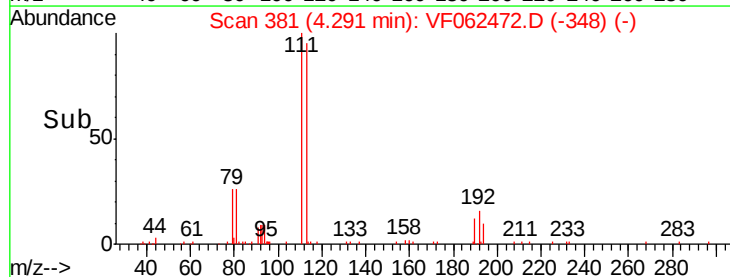
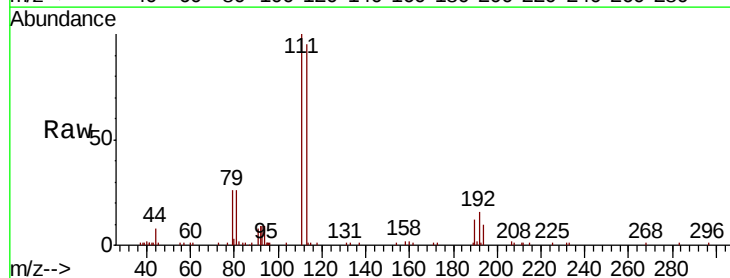
Tgt Ion: 42 Resp: 288

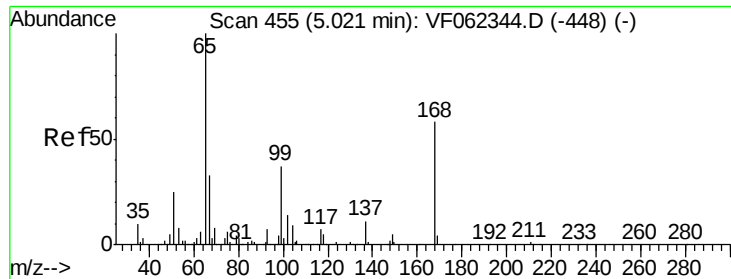
Ion Ratio Lower Upper

42 100

72 22.2 31.4 47.0#

71 38.2 31.7 47.5





#33

1,2-Dichloroethane-d4

Concen: 75.920 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

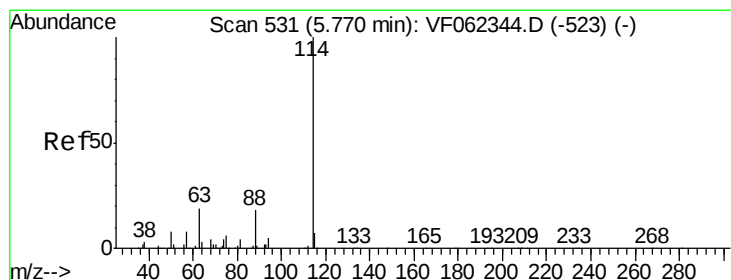
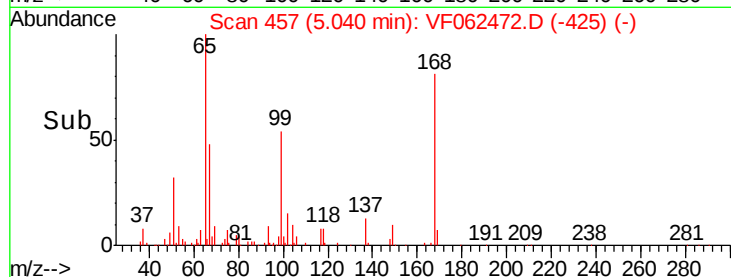
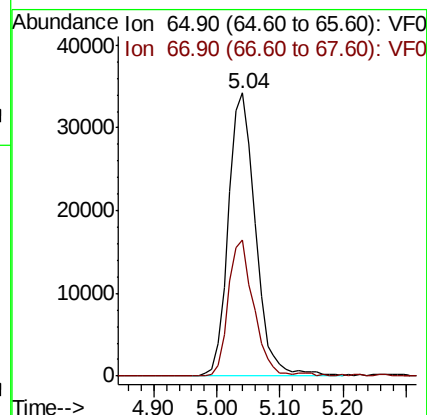
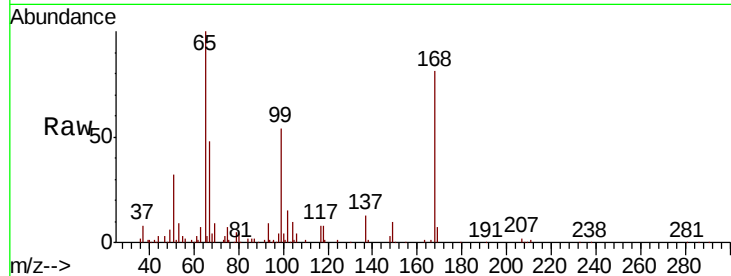
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 101955

Ion Ratio Lower Upper

65 100

67 44.9 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

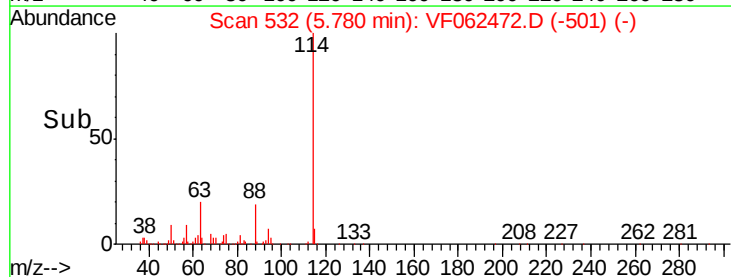
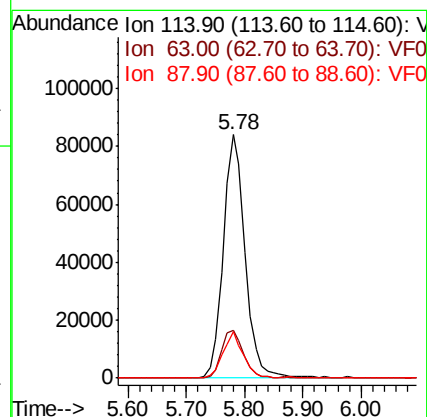
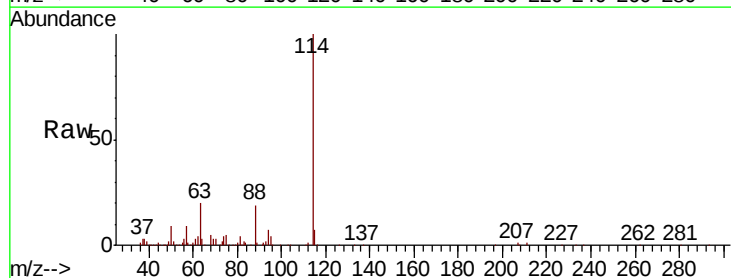
Tgt Ion:114 Resp: 217948

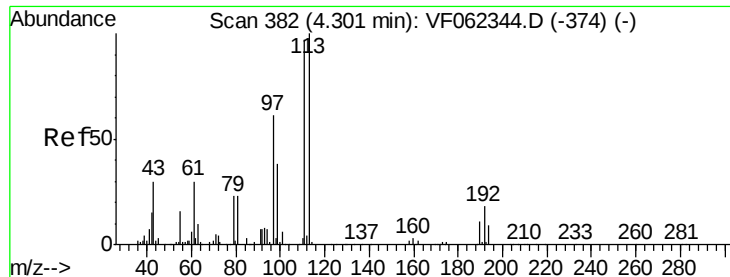
Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.4

88 19.3 0.0 36.4

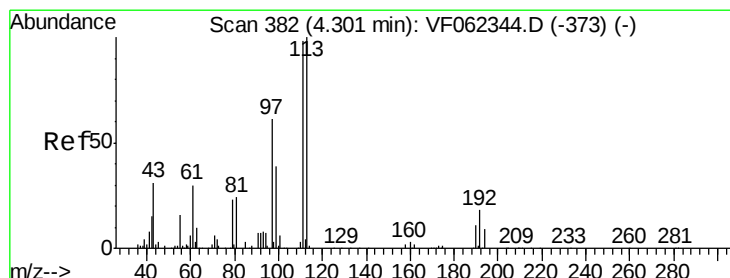
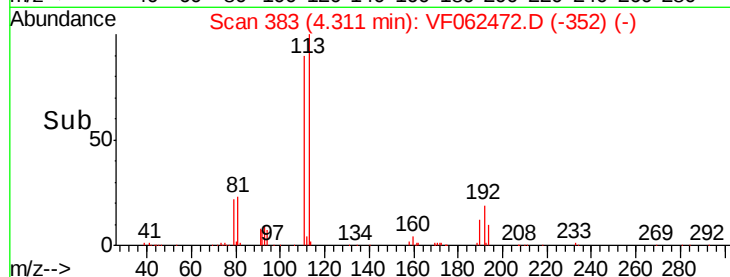
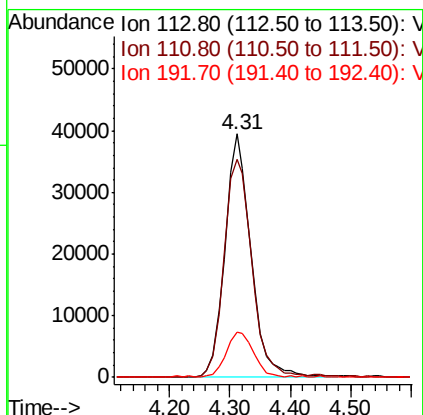
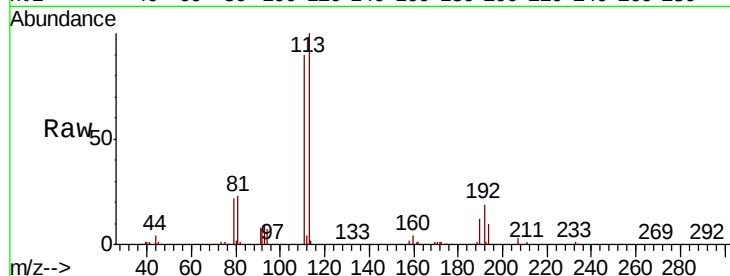




#35
Dibromofluoromethane
Concen: 67.718 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062472.D
Acq: 11 May 2019 20:51

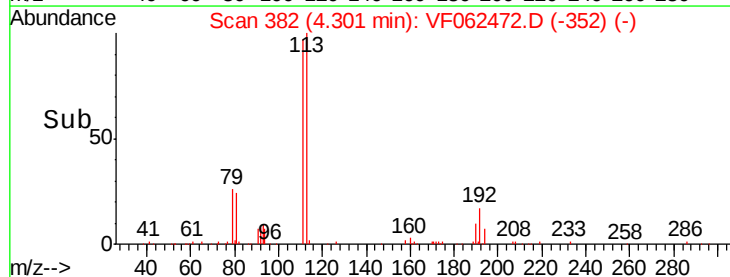
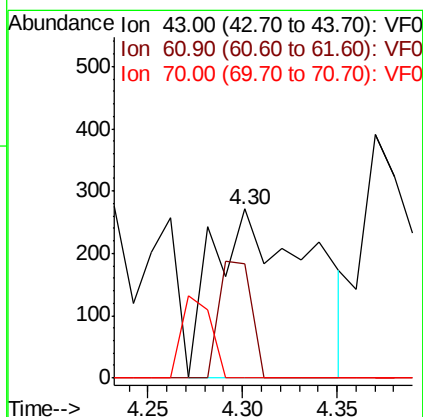
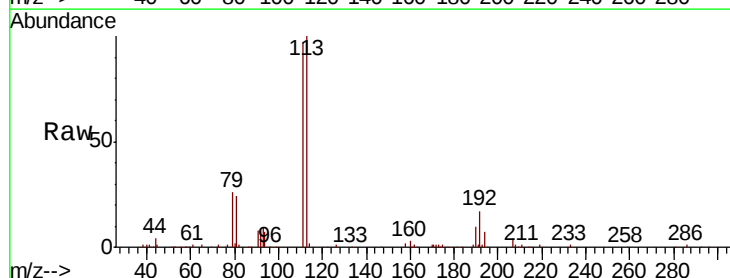
Instrument :
MSVOA_F
ClientSampleId :

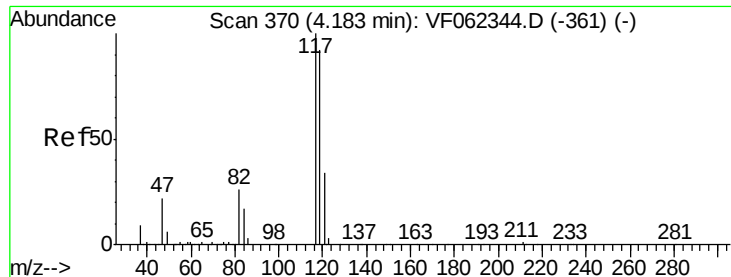
Tot Ion:113 Resp: 117582
Ion Ratio Lower Upper
113 100
111 96.6 79.4 119.0
192 20.0 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF062472.D
Acq: 11 May 2019 20:51

Tgt Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
61 22.5 0.0 0.0#
70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.17 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF062472.D

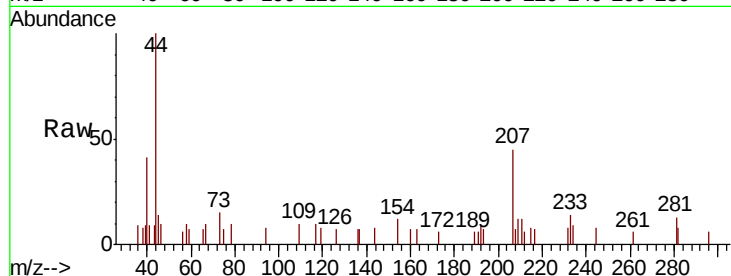
Acq: 11 May 2019 20:51

Instrument :

MSVOA_F

ClientSampleId :

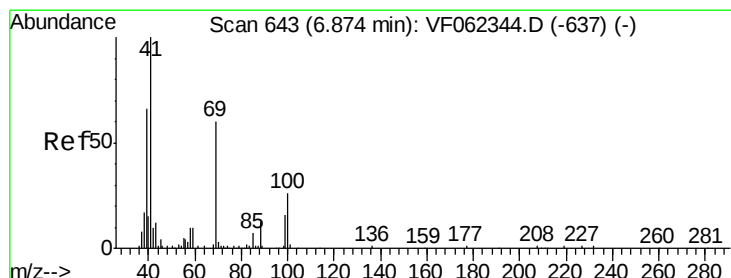
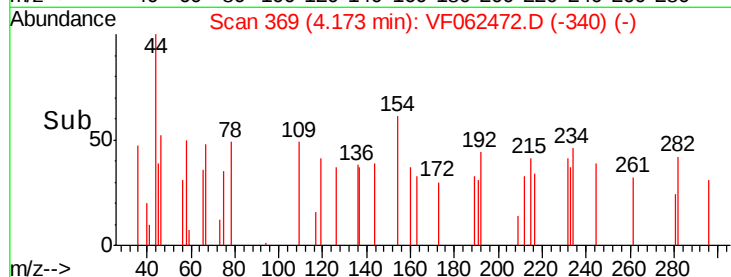
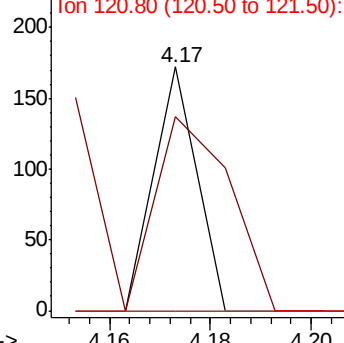
Tot Ion	Ratio	Lower	Upper
117	100		
119	79.7	73.4	110.2
121	0.0	27.4	41.0#



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



#48

Methyl methacrylate

Concen: 1.123 ug/l

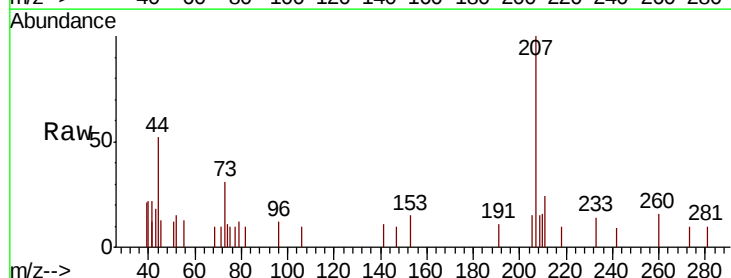
RT: 6.87 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

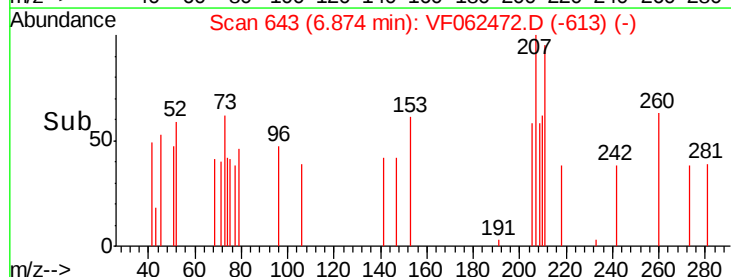
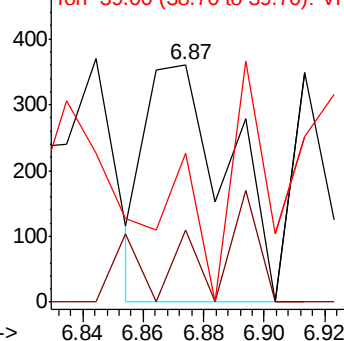
Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	48.6	72.8#
39	19.8	56.1	84.1#

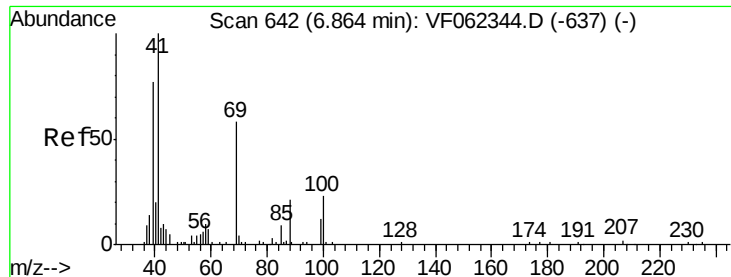


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.75 min Scan# 630

Delta R.T. -0.12 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

Instrument :

MSVOA_F

ClientSampled :

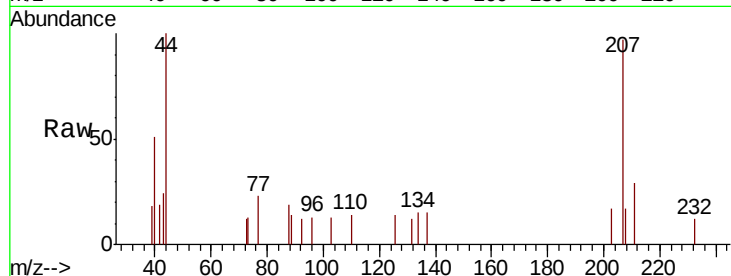
Tot Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 411.3 55.6 83.4#

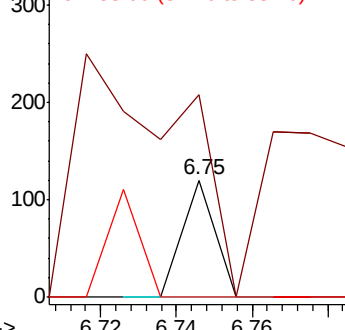
58 0.0 52.8 79.2#



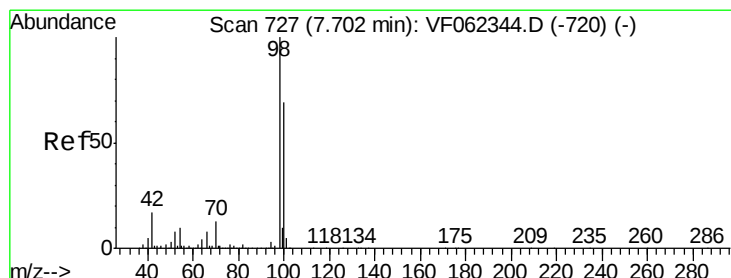
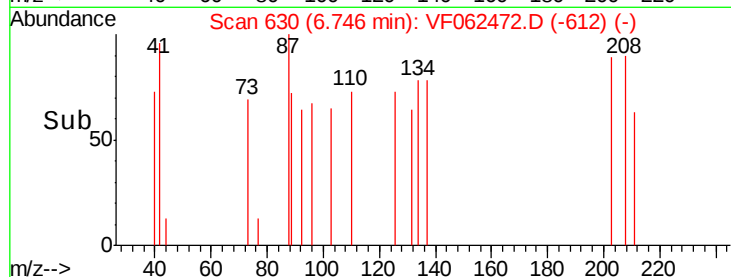
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 34.501 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF062472.D

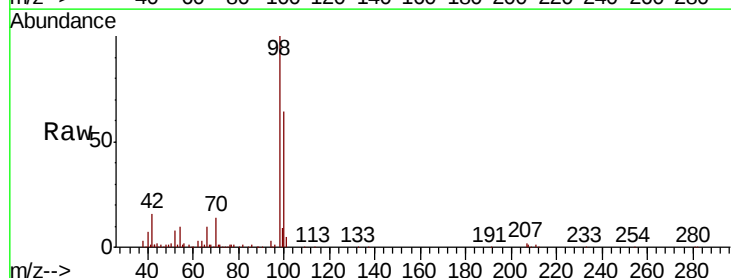
Acq: 11 May 2019 20:51

Tgt Ion: 98 Resp: 145011

Ion Ratio Lower Upper

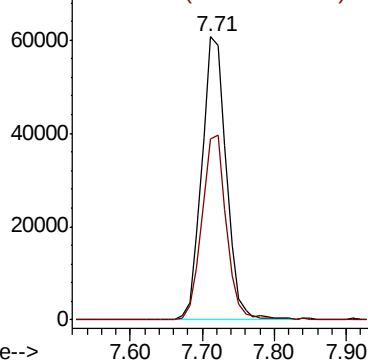
98 100

100 65.4 53.3 79.9

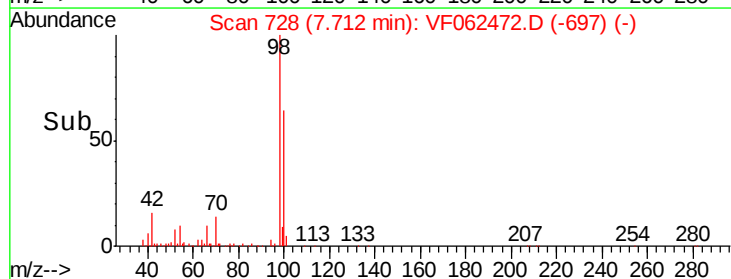


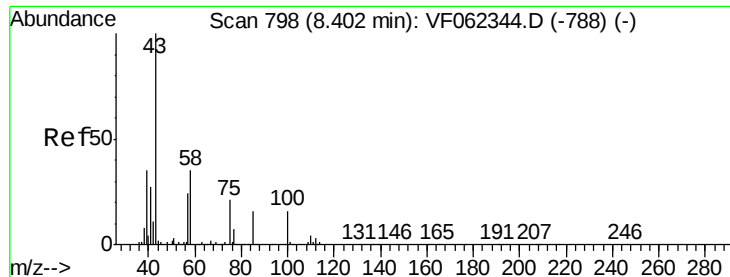
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.144 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

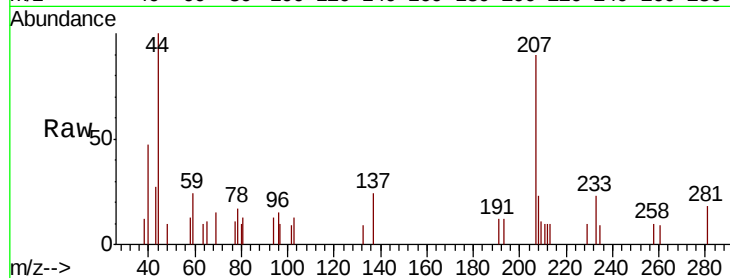
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 738

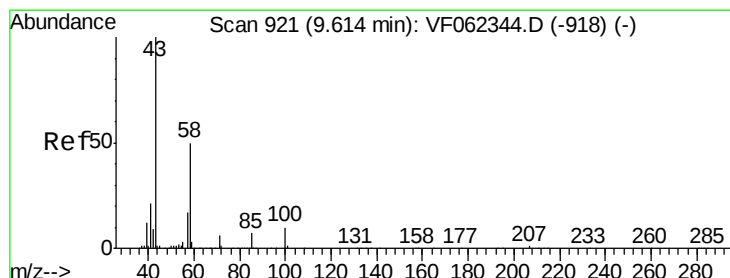
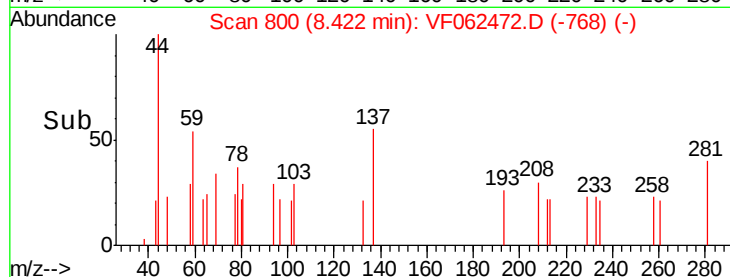
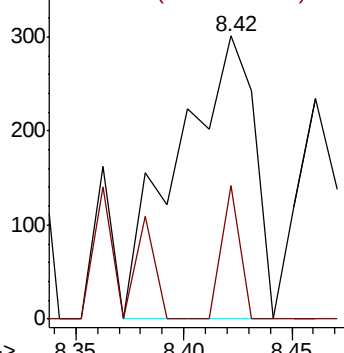
Ion Ratio Lower Upper

43 100

58 11.4 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.104 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.03 min

Lab File: VF062472.D

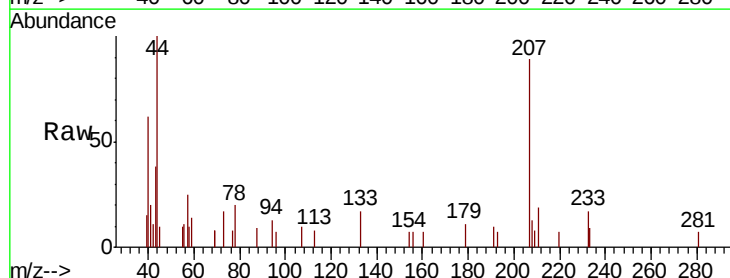
Acq: 11 May 2019 20:51

Tgt Ion: 43 Resp: 939

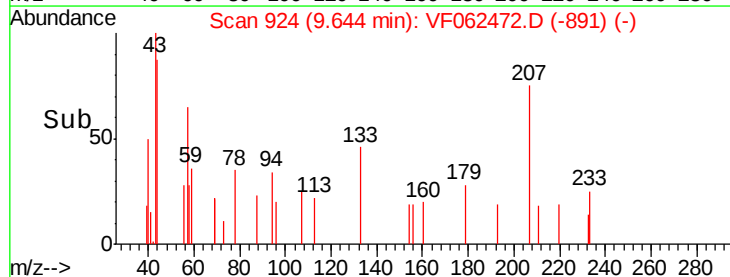
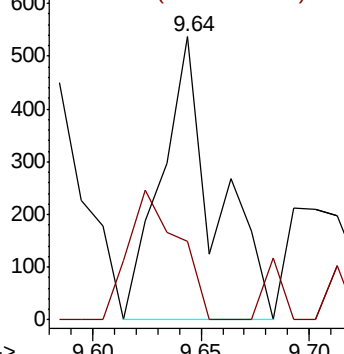
Ion Ratio Lower Upper

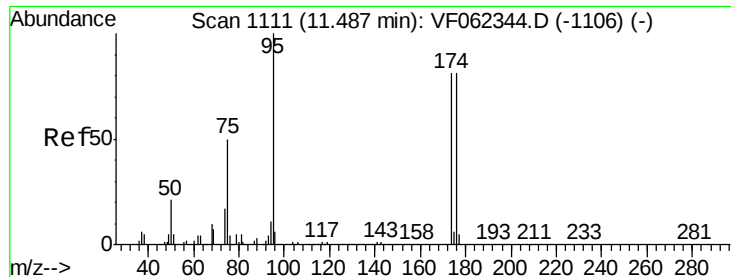
43 100

58 42.3 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 33.704 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

Instrument :

MSVOA_F

ClientSampleId :

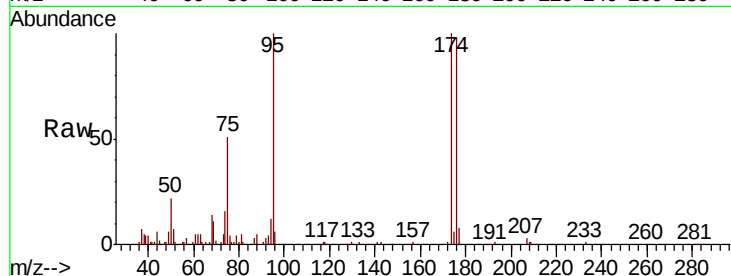
Tot Ion: 95 Resp: 63912

Ion Ratio Lower Upper

95 100

174 99.8 0.0 191.8

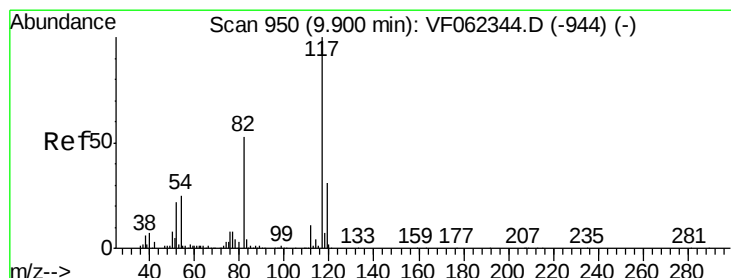
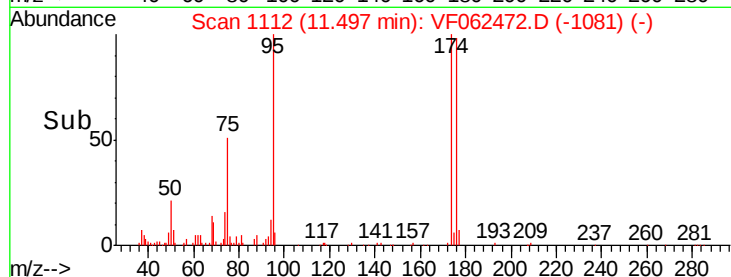
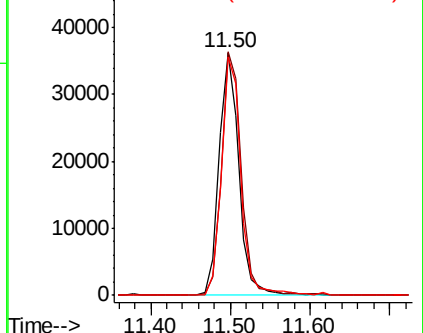
176 95.9 0.0 193.2



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: 9.91 min Scan# 951

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

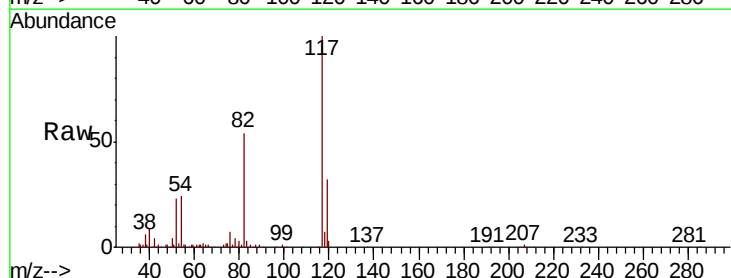
Tgt Ion: 117 Resp: 172639

Ion Ratio Lower Upper

117 100

82 53.6 42.2 63.2

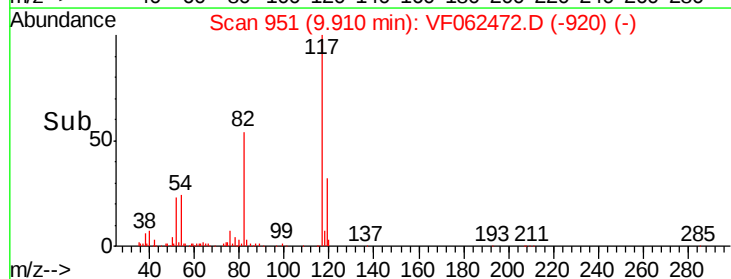
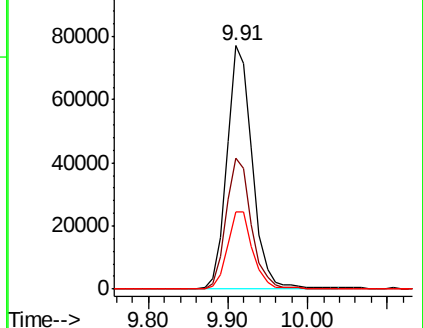
119 31.5 25.0 37.4

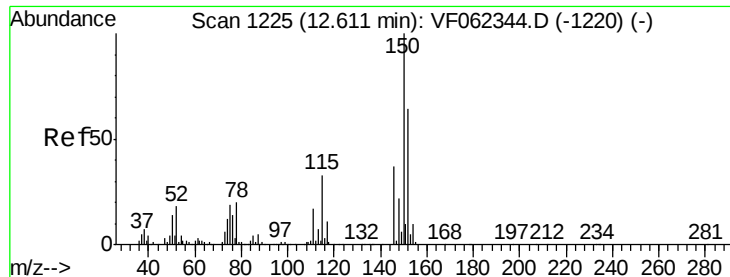


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

Instrument :

MSVOA_F

ClientSampleId :

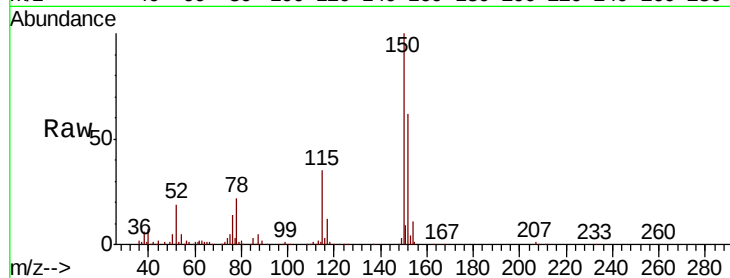
Tot Ion:152 Resp: 85006

Ion Ratio Lower Upper

152 100

115 53.5 26.4 79.2

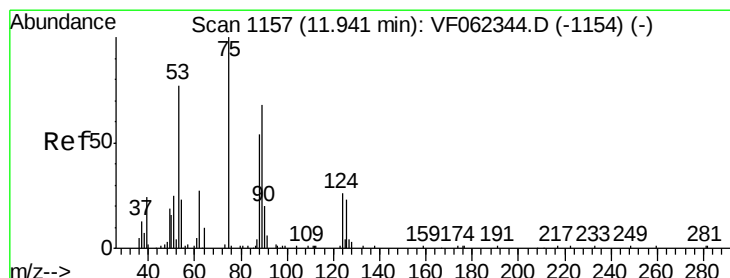
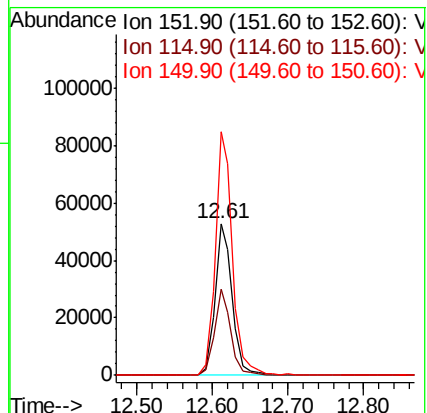
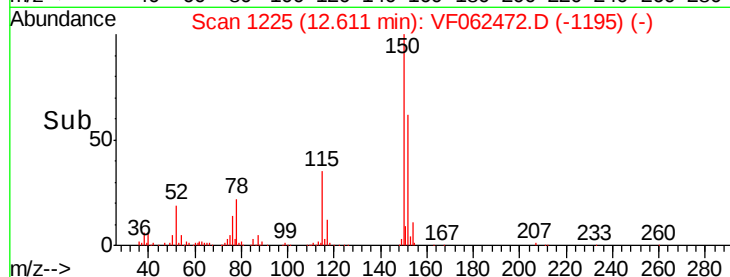
150 158.4 0.0 335.0



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: 1.122 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062472.D

Acq: 11 May 2019 20:51

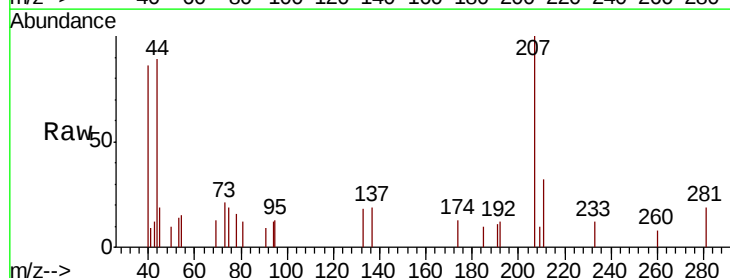
Tgt Ion: 75 Resp: 254

Ion Ratio Lower Upper

75 100

53 39.4 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

