

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062441.D
 Acq On : 11 May 2019 2:17
 Operator : FY/SY
 Sample : K2754-02
 Misc : 6.11q/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-5

Quant Time: May 11 05:41:02 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

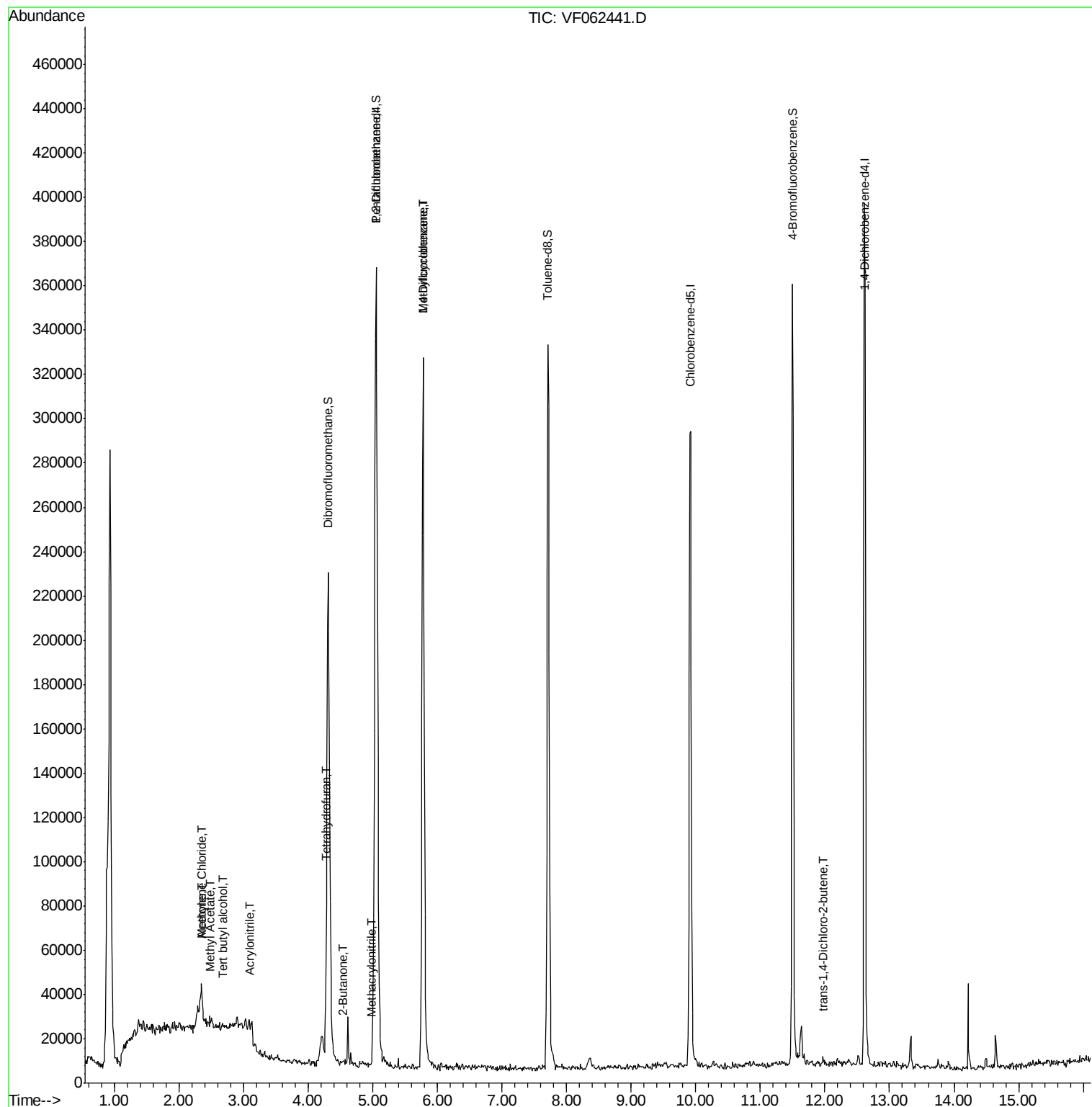
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	255645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	338857	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	215825	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	110591	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	188195	77.90	ug/l	0.02
Spiked Amount 50.000			Recovery	=	155.80%	
35) Dibromofluoromethane	4.31	113	195349	72.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	144.72%	
50) Toluene-d8	7.71	98	274834	42.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.12%	
62) 4-Bromofluorobenzene	11.50	95	112543	38.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	76.34%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.40	94	379	Below Cal	#	36
11) Tert butyl alcohol	2.68	59	305	2.234	ug/l #	70
13) Acrolein	2.11	56	280	Below Cal	#	56
15) Acrylonitrile	3.08	53	1096	4.237	ug/l #	54
16) Acetone	2.35	43	26891	55.022	ug/l #	85
18) Methyl Acetate	2.48	43	4175	1.656	ug/l #	84
20) Methylene Chloride	2.35	84	7107	4.019	ug/l #	87
25) 2-Butanone	4.53	43	4135	6.734	ug/l #	90
29) Tetrahydrofuran	4.27	42	840	2.977	ug/l #	67
37) Ethyl Acetate	4.29	43	324	Below Cal	#	1
38) Carbon Tetrachloride	4.15	117	85	Below Cal	#	68
39) Methylcyclohexane	5.77	83	5206	1.783	ug/l #	44
41) Methacrylonitrile	4.97	41	972	1.393	ug/l #	43
49) 1,4-Dioxane	7.02	88	66	Below Cal	#	1
81) trans-1,4-Dichloro-2-buten	11.98	75	464	1.576	ug/l #	21

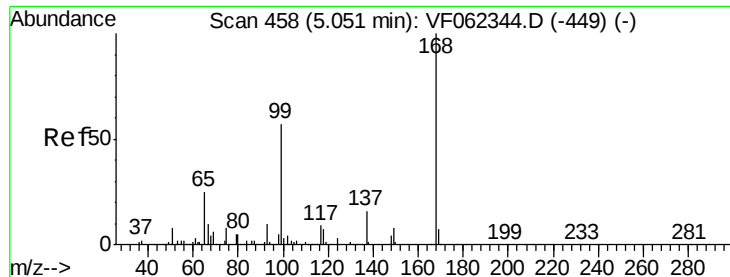
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampleId :

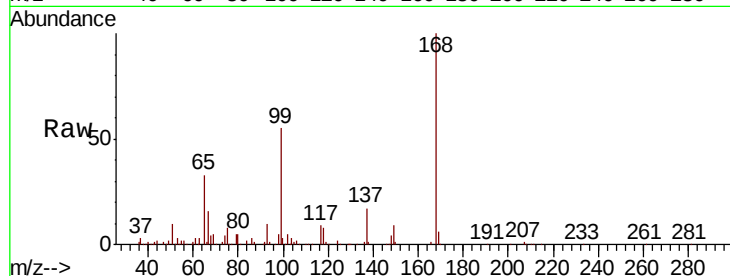
TP-5

Tot Ion:168 Resp: 255645

Ion Ratio Lower Upper

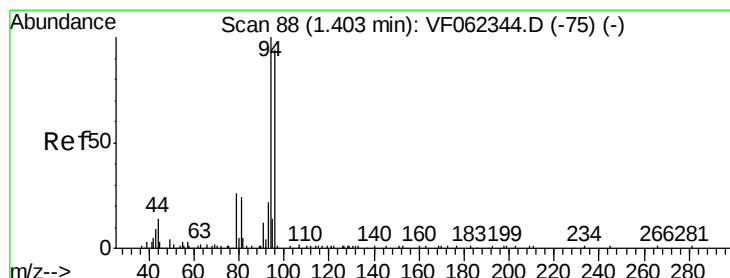
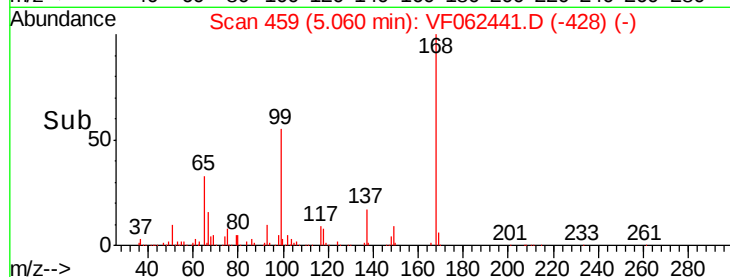
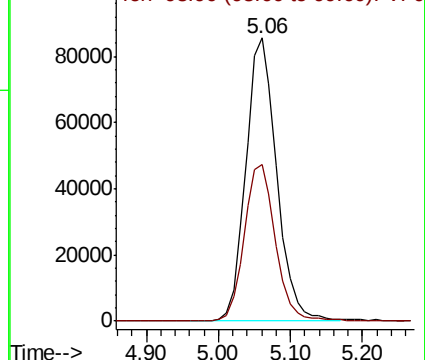
168 100

99 55.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062441.D

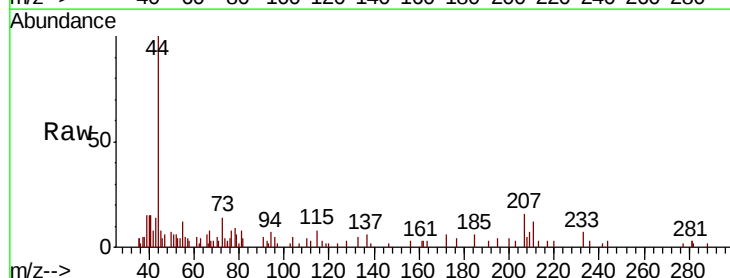
Acq: 11 May 2019 2:17

Tgt Ion: 94 Resp: 379

Ion Ratio Lower Upper

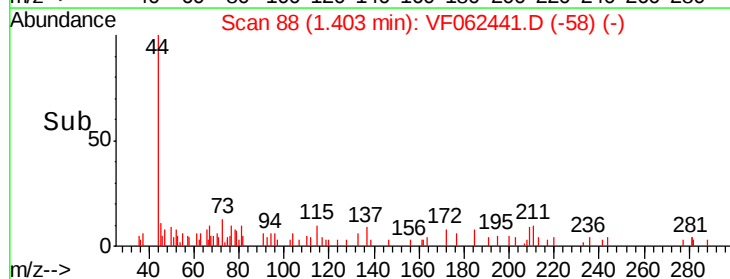
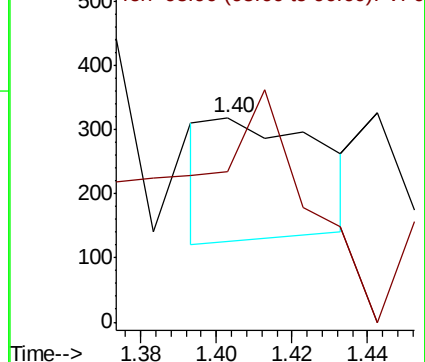
94 100

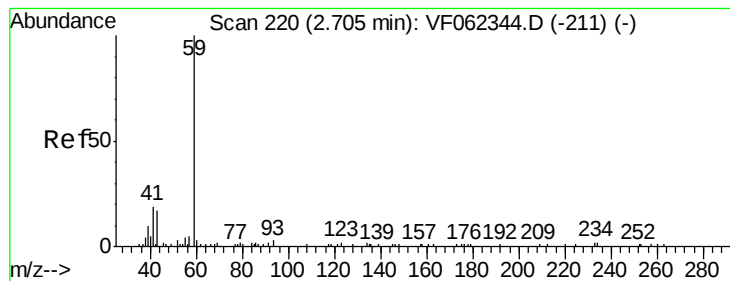
96 156.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



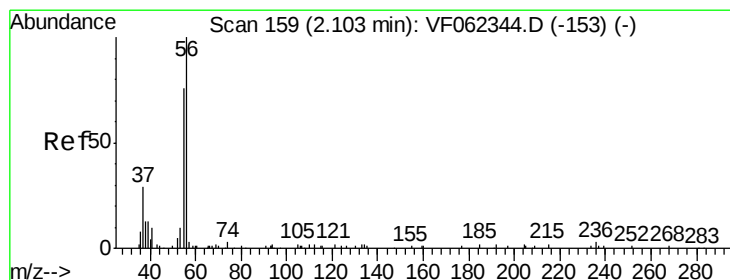
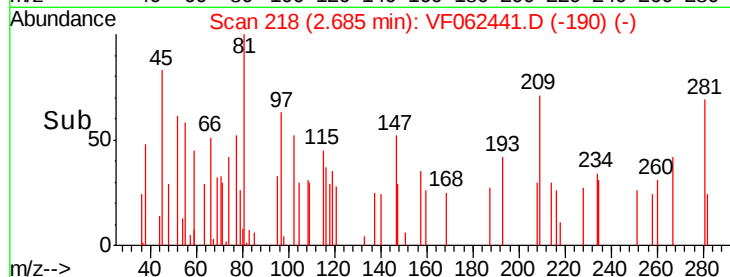
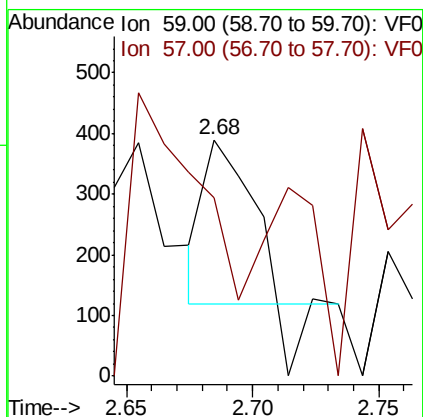
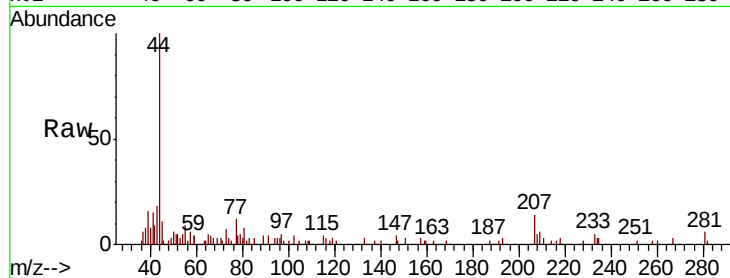


#11

Tert butyl alcohol
Concen: 2.234 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

Instrument :
MSVOA_F
ClientSampled :
TP-5

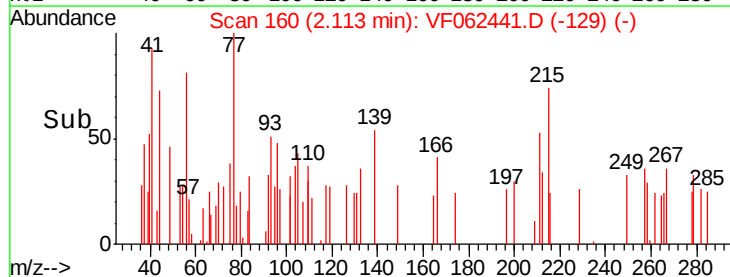
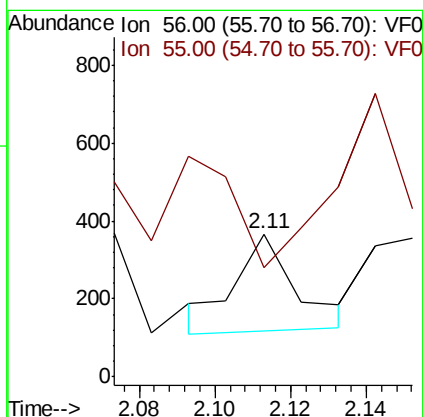
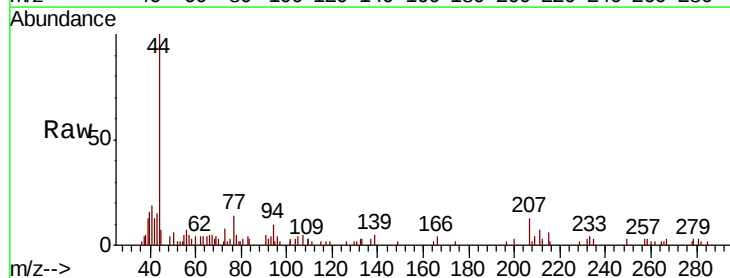
Tot Ion: 59 Resp: 305
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#13

Acrolein
Concen: Below Cal
RT: 2.11 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

Tgt Ion: 56 Resp: 280
Ion Ratio Lower Upper
56 100
55 110.0 58.4 87.6#





#15

Acrylonitrile

Concen: 4.237 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampleId :

TP-5

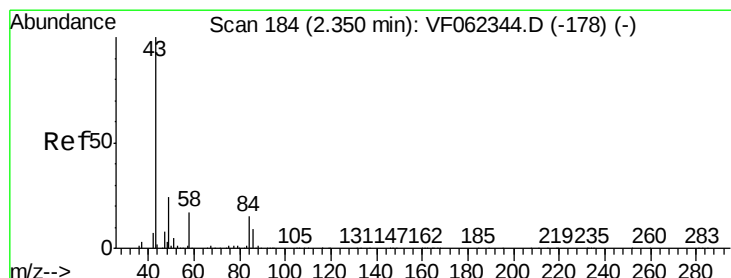
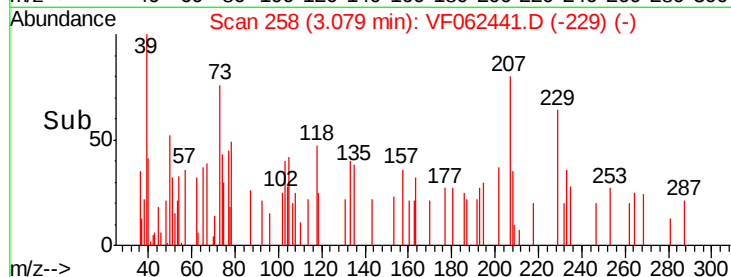
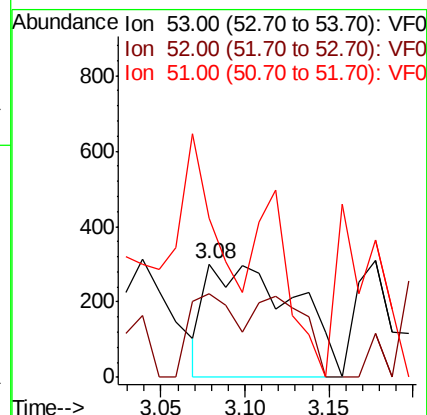
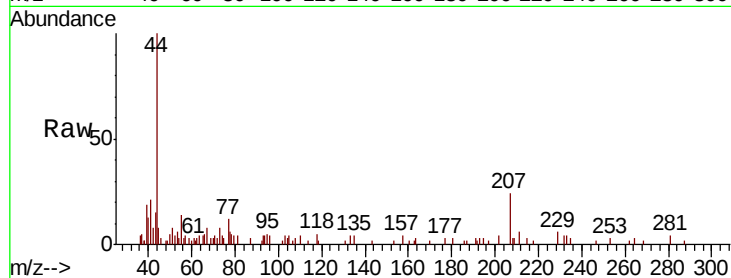
Tot Ion: 53 Resp: 1096

Ion Ratio Lower Upper

53 100

52 39.9 77.2 115.8#

51 66.8 40.6 61.0#



#16

Acetone

Concen: 55.022 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062441.D

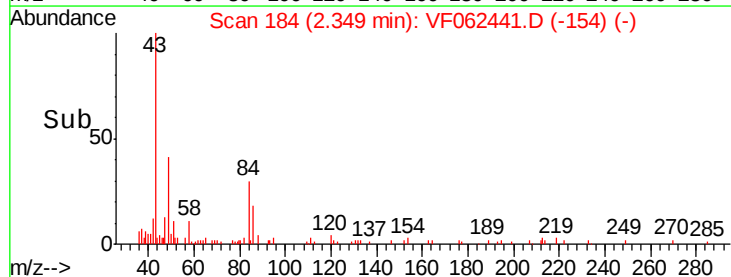
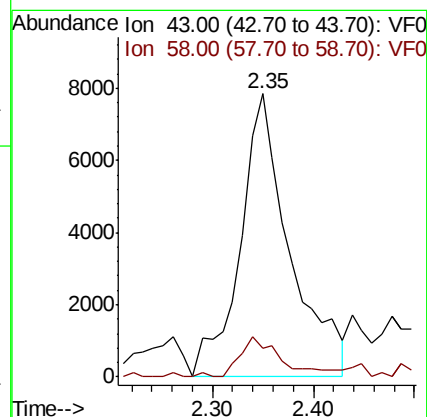
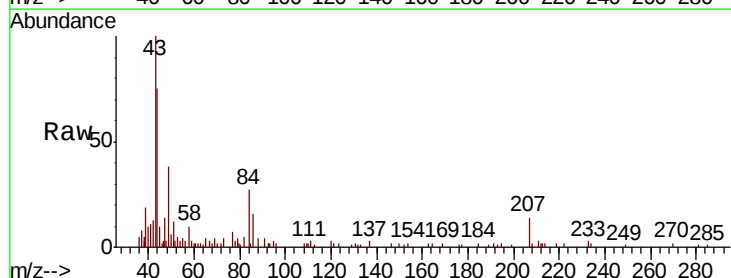
Acq: 11 May 2019 2:17

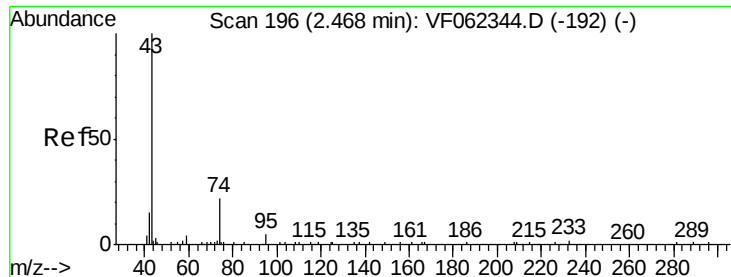
Tgt Ion: 43 Resp: 26891

Ion Ratio Lower Upper

43 100

58 10.0 13.1 19.7#

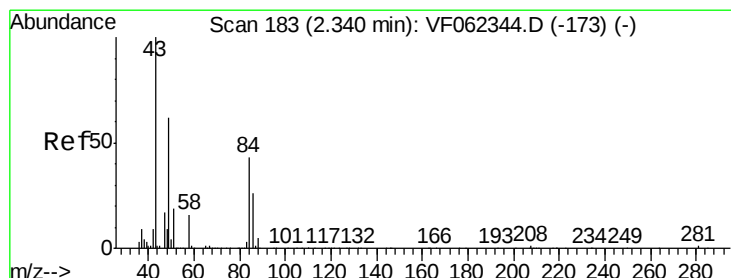
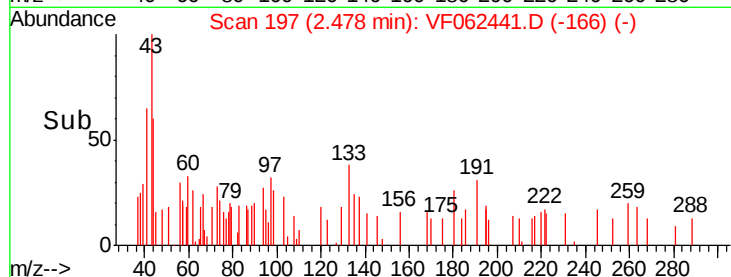
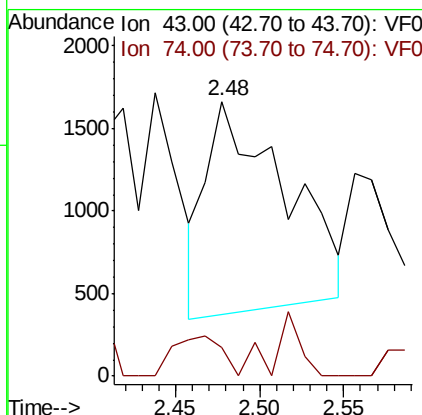
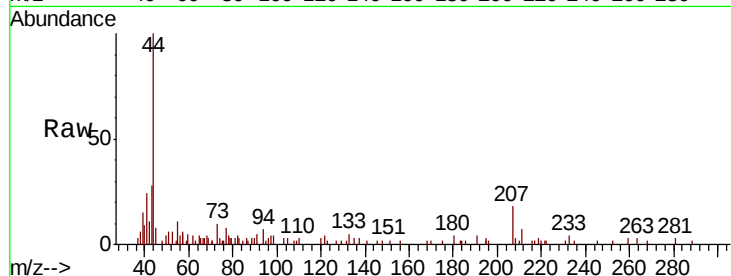




#18
Methyl Acetate
Concen: 1.656 ug/l
RT: 2.48 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

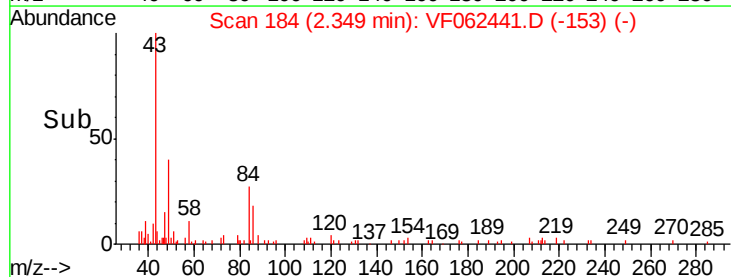
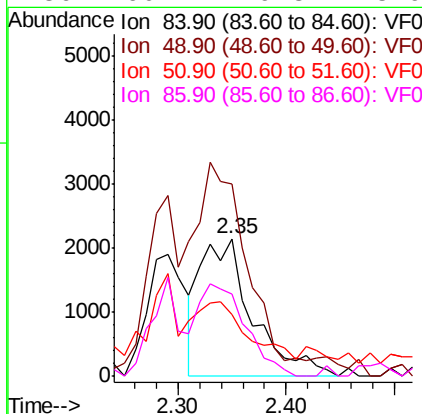
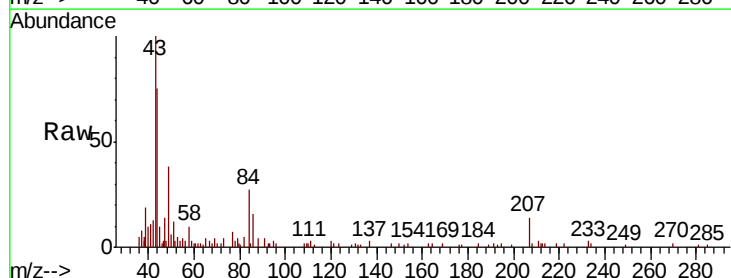
Instrument :
MSVOA_F
ClientSampled :
TP-5

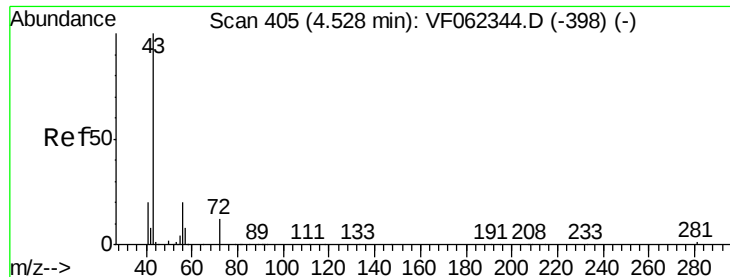
Tot Ion: 43 Resp: 4175
Ion Ratio Lower Upper
43 100
74 11.7 15.0 22.4#



#20
Methylene Chloride
Concen: 4.019 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

Tgt Ion: 84 Resp: 7107
Ion Ratio Lower Upper
84 100
49 131.8 117.5 176.3
51 26.2 37.0 55.4#
86 60.1 49.3 73.9





#25

2-Butanone

Concen: 6.734 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

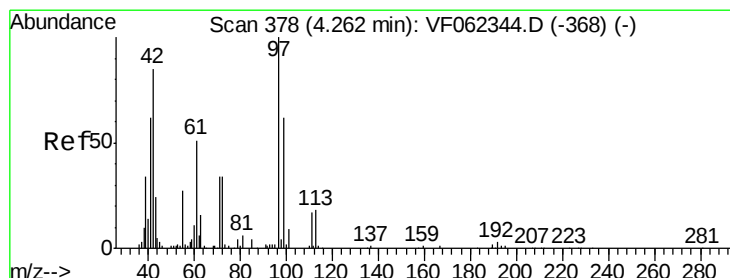
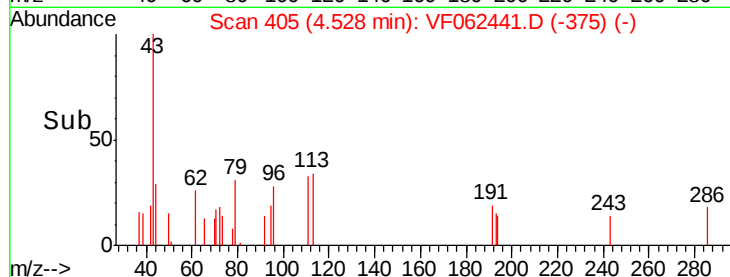
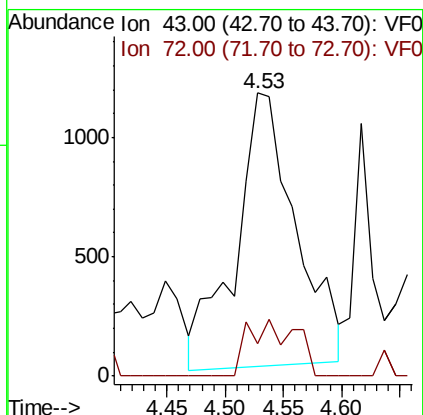
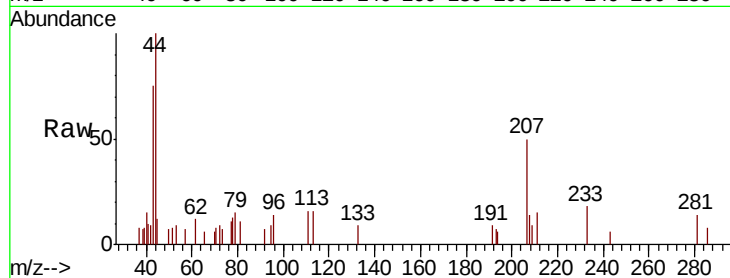
Instrument :
MSVOA_F
ClientSampled :
TP-5

Tot Ion: 43 Resp: 4135

Ion Ratio Lower Upper

43 100

72 13.3 14.2 21.4#



#29

Tetrahydrofuran

Concen: 2.977 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

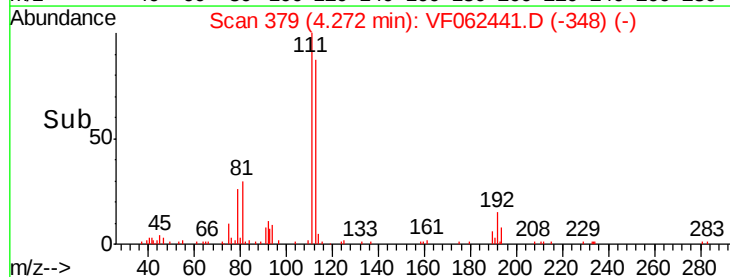
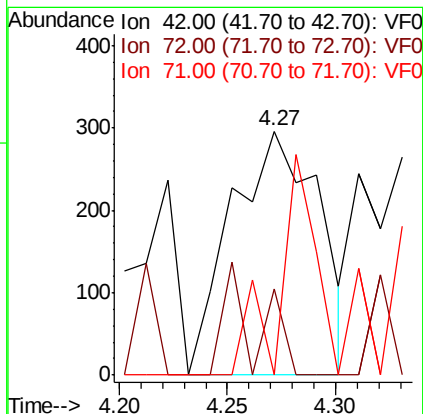
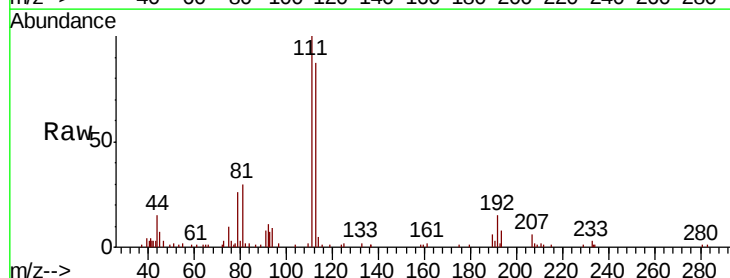
Tgt Ion: 42 Resp: 840

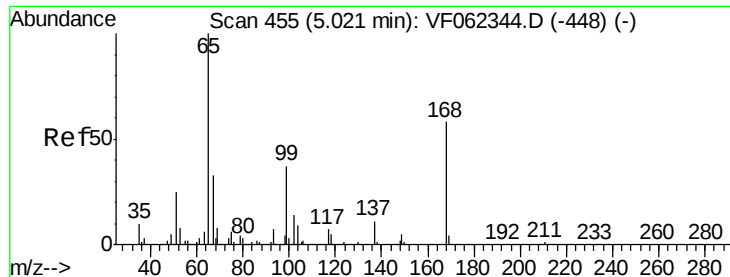
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 37.6 31.7 47.5





#33

1,2-Dichloroethane-d4

Concen: 77.897 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

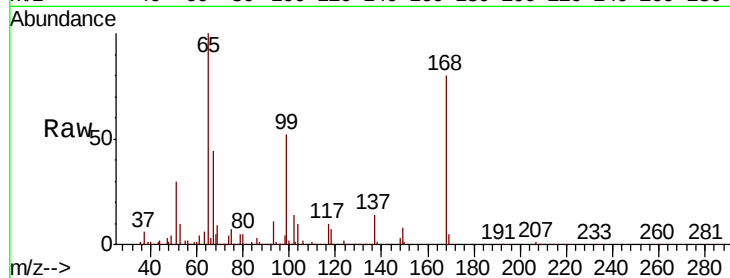
Instrument :
MSVOA_F
ClientSampled :
TP-5

Tot Ion: 65 Resp: 188195

Ion Ratio Lower Upper

65 100

67 45.8 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.04

60000

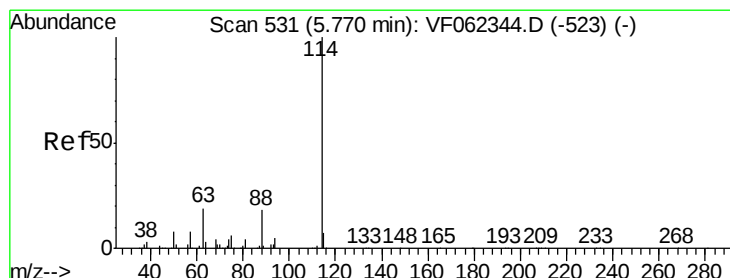
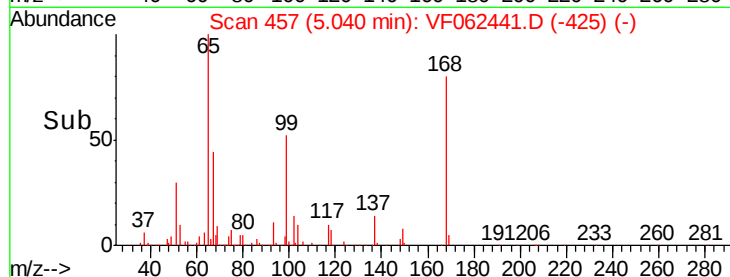
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

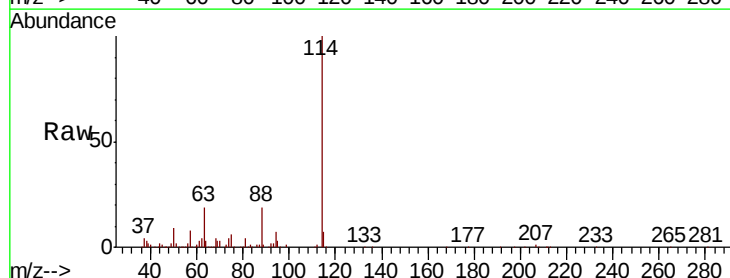
Tgt Ion:114 Resp: 338857

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

88 18.7 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

150000

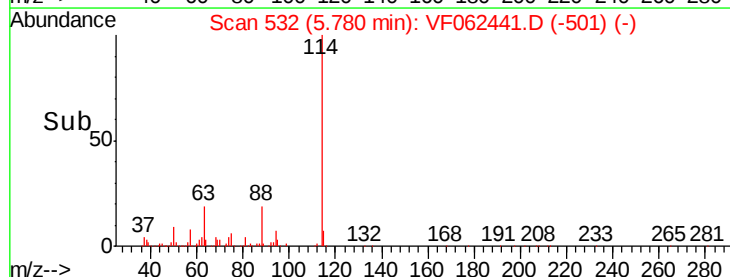
100000

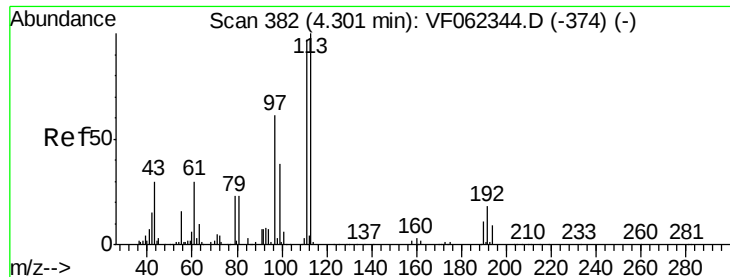
50000

0

Time-->

5.60 5.70 5.80 5.90 6.00

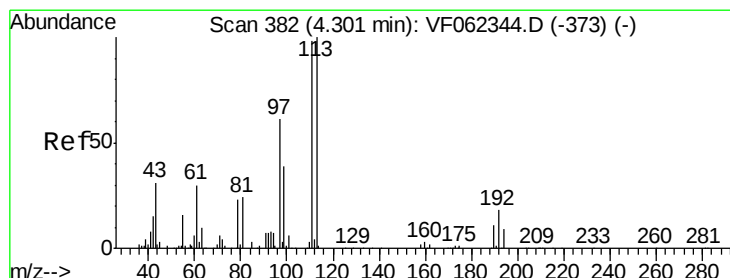
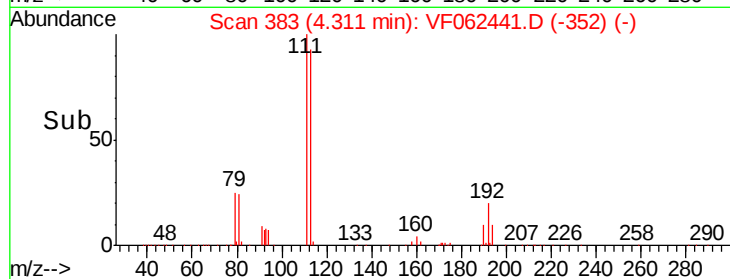
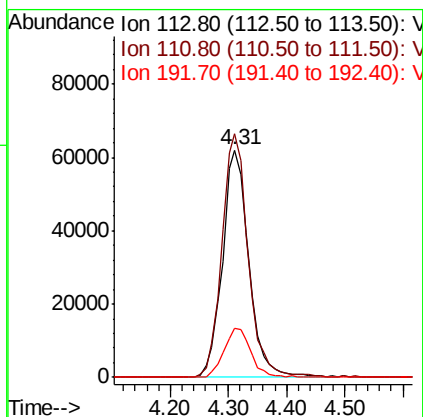
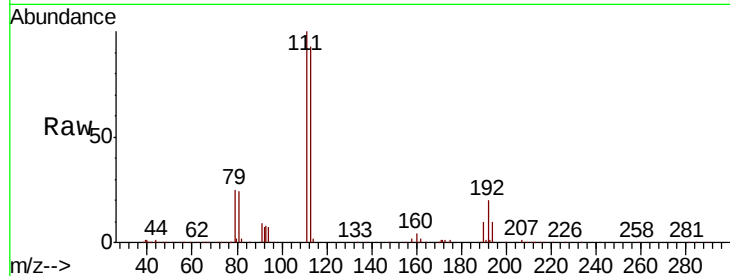




#35
Dibromofluoromethane
Concen: 72.362 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

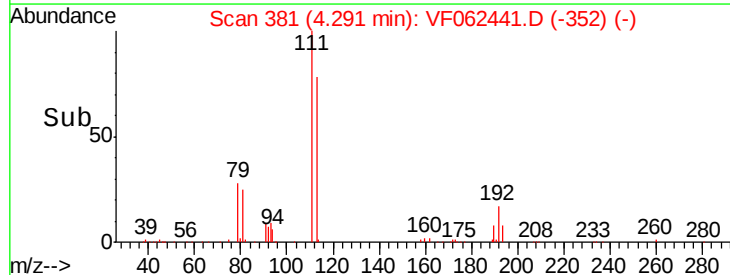
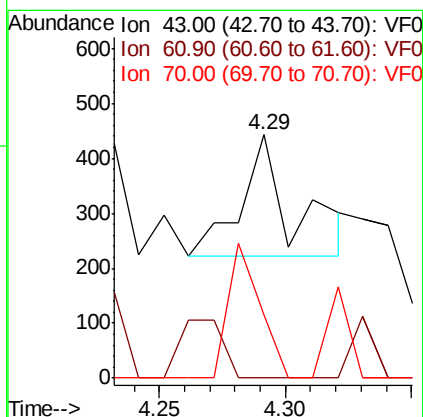
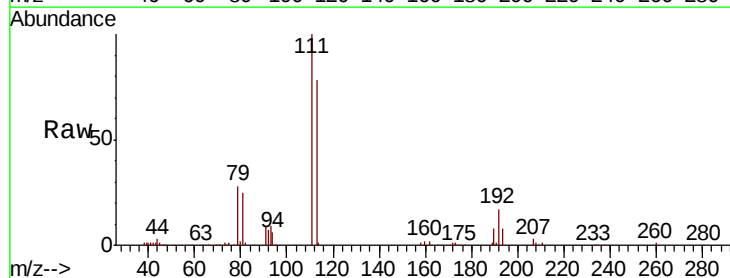
Instrument :
MSVOA_F
ClientSampleId :
TP-5

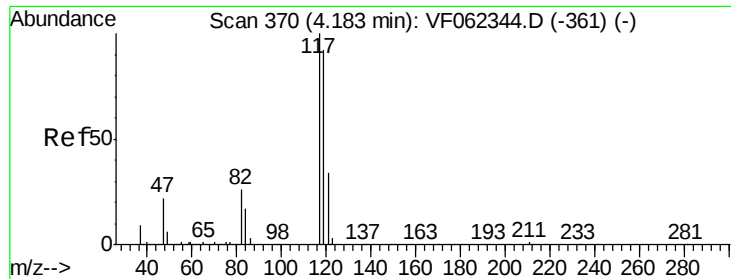
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.4	79.4	119.0
192	22.1	16.0	24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	65.7	8.2	12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.15 min Scan# 367

Delta R.T. -0.03 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampleId :

TP-5

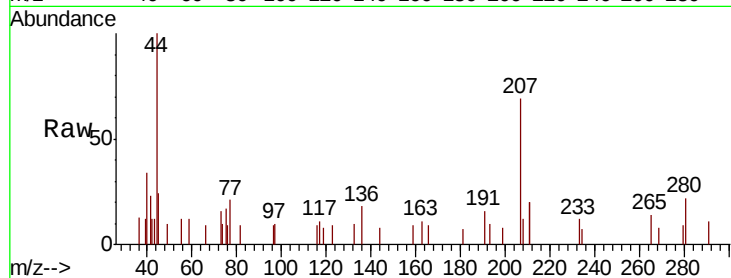
Tot Ion:117 Resp: 85

Ion Ratio Lower Upper

117 100

119 71.5 73.4 110.2#

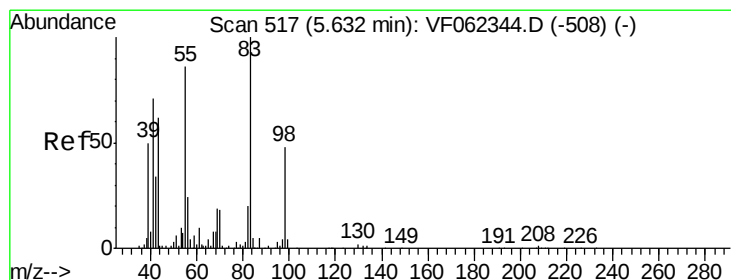
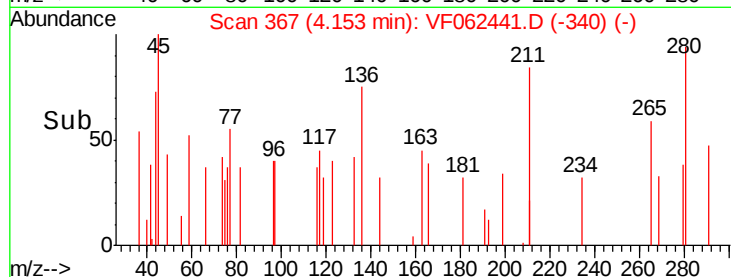
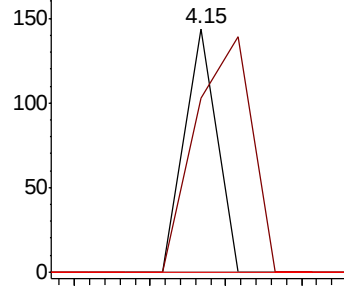
121 0.0 27.4 41.0#



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: 1.783 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.14 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

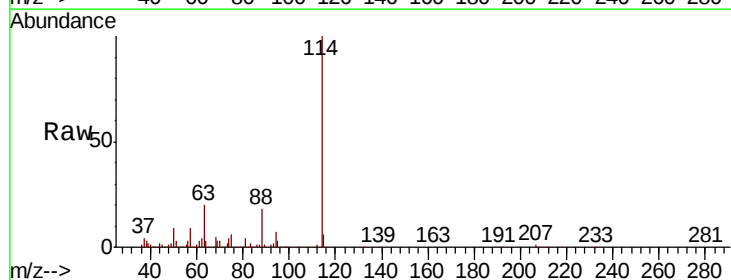
Tgt Ion: 83 Resp: 5206

Ion Ratio Lower Upper

83 100

55 38.4 69.0 103.6#

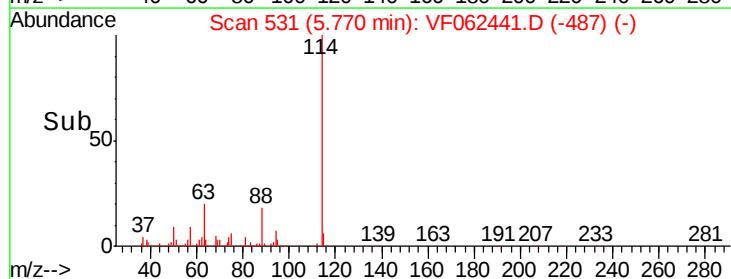
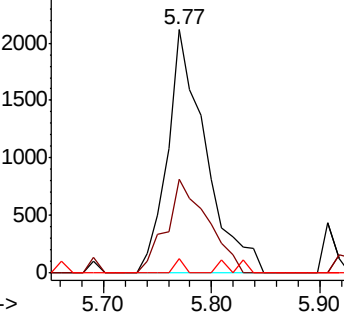
98 5.9 38.6 58.0#

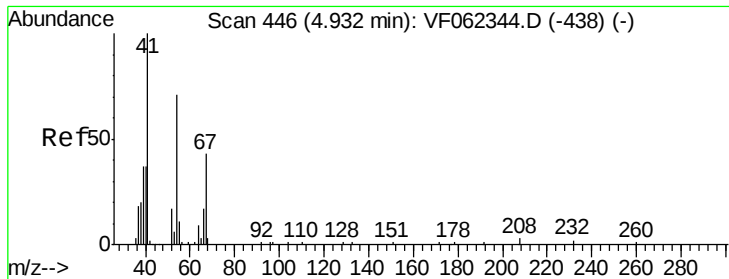


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.393 ug/l

RT: 4.97 min Scan# 450

Delta R.T. 0.04 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampleId :

TP-5

Tot Ion: 41 Resp: 972

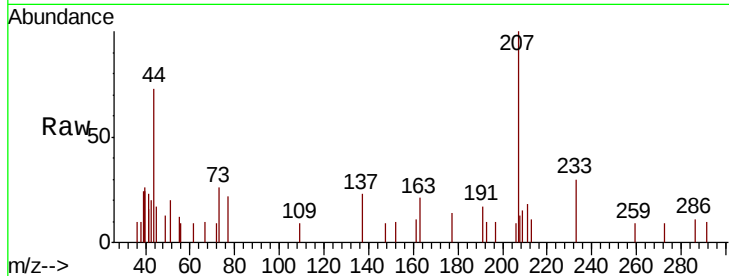
Ion Ratio Lower Upper

41 100

39 43.1 54.3 81.5#

67 0.0 37.8 56.8#

52 11.4 58.2 87.4#

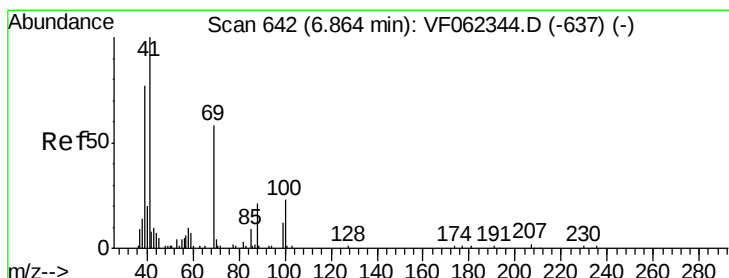
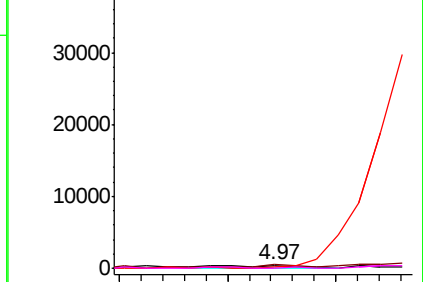
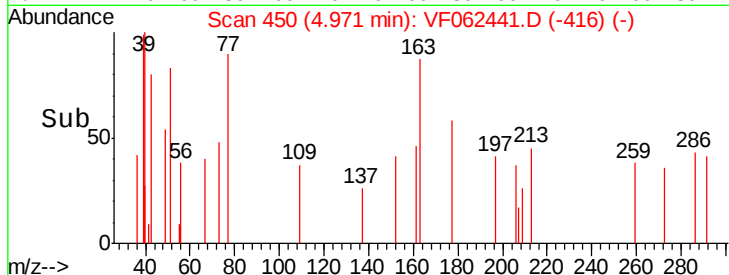


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.02 min Scan# 658

Delta R.T. 0.16 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

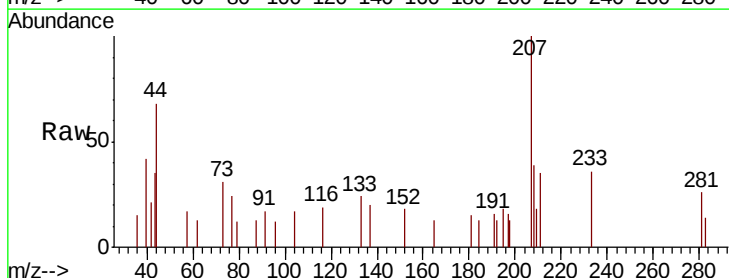
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 1093.9 55.6 83.4#

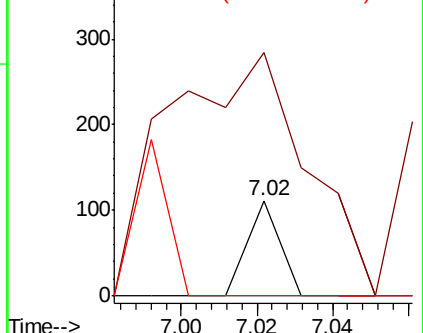
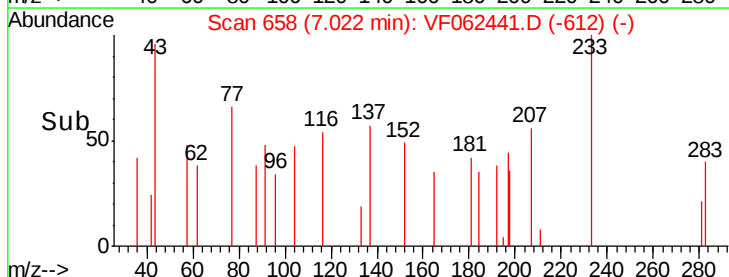
58 0.0 52.8 79.2#

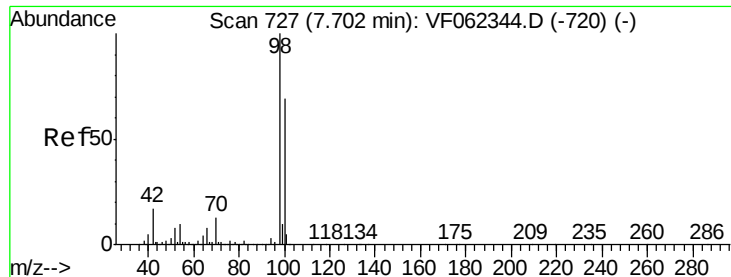


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 42.057 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampled :

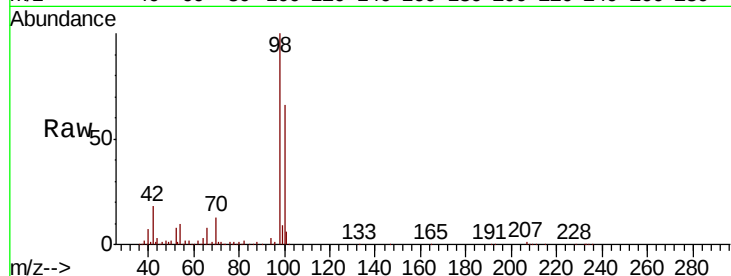
TP-5

Tot Ion: 98 Resp: 274834

Ion Ratio Lower Upper

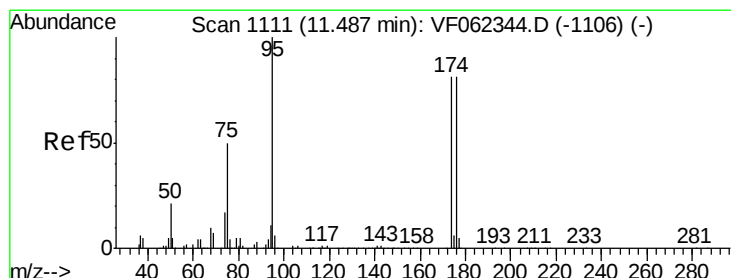
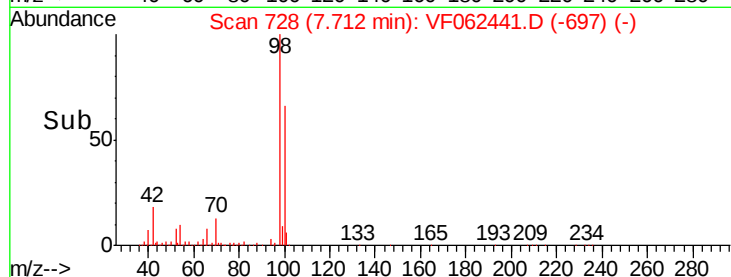
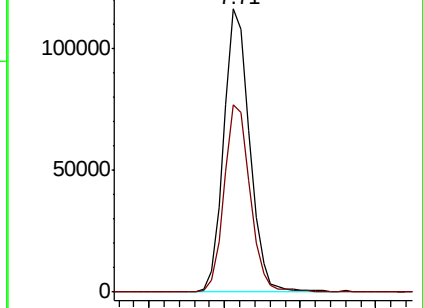
98 100

100 66.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#62

4-Bromofluorobenzene

Concen: 38.173 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

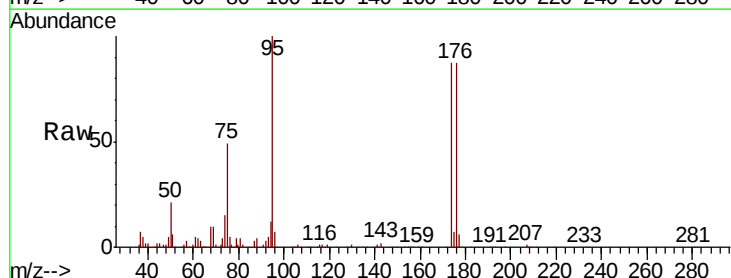
Tgt Ion: 95 Resp: 112543

Ion Ratio Lower Upper

95 100

174 100.6 0.0 191.8

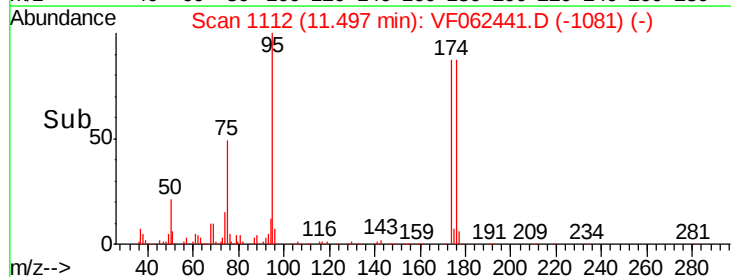
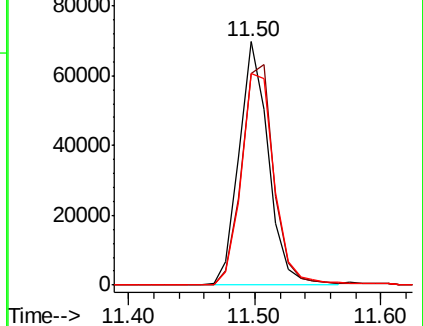
176 99.1 0.0 193.2

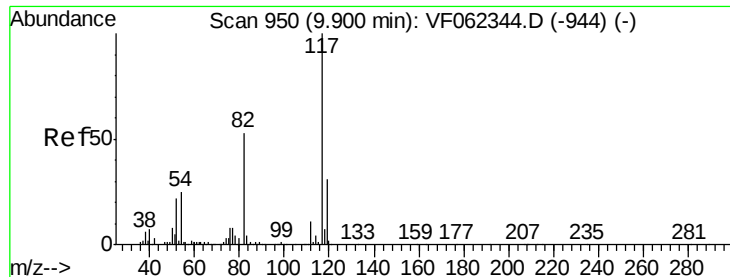


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

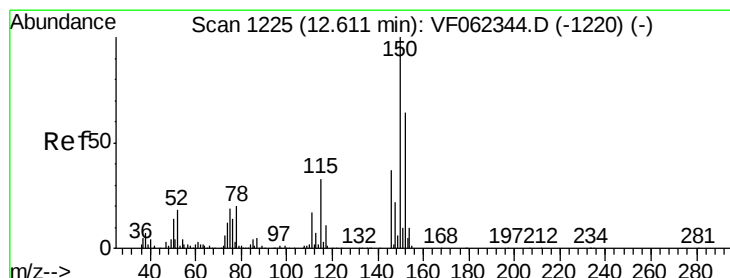
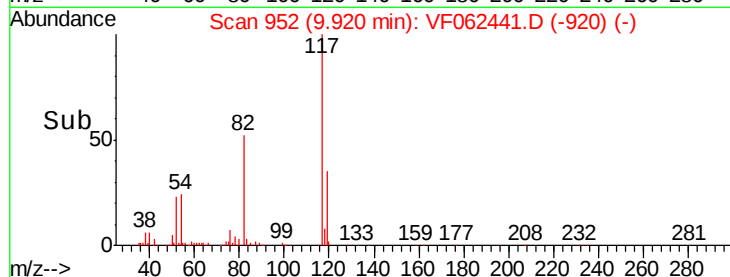
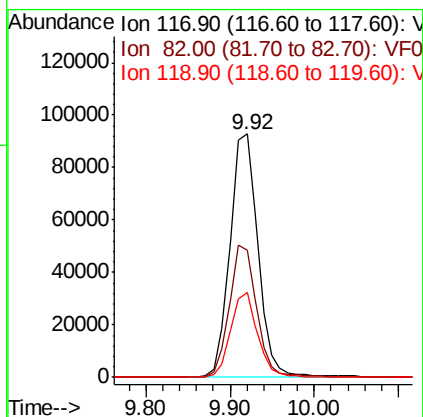
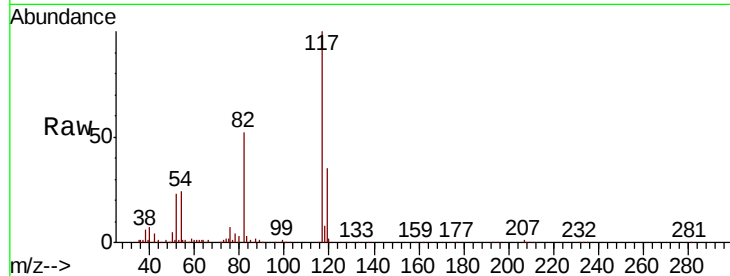




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

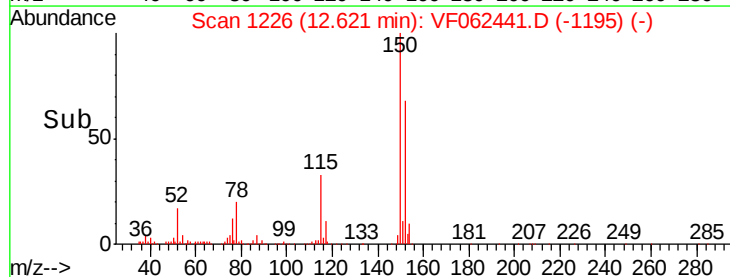
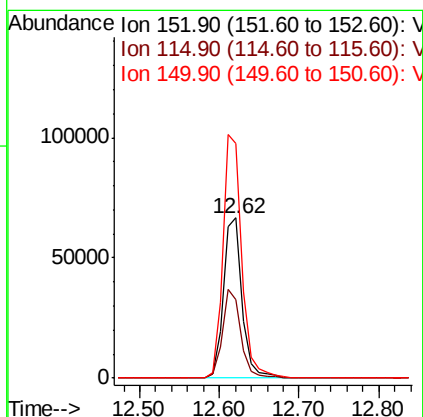
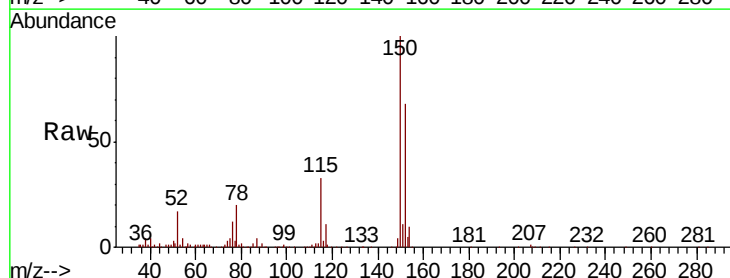
Instrument :
MSVOA_F
ClientSampleId :
TP-5

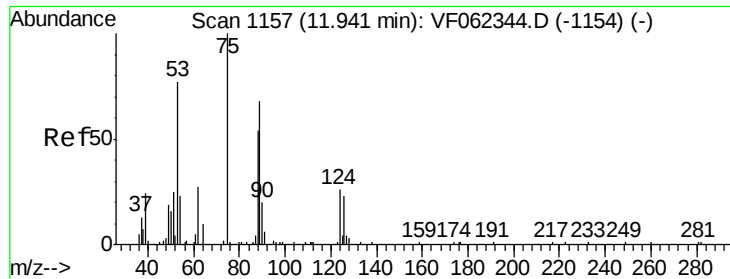
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.2	63.2
119	34.9	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062441.D
Acq: 11 May 2019 2:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	26.4	79.2
150	153.1	0.0	335.0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.576 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.04 min

Lab File: VF062441.D

Acq: 11 May 2019 2:17

Instrument :

MSVOA_F

ClientSampleId :

TP-5

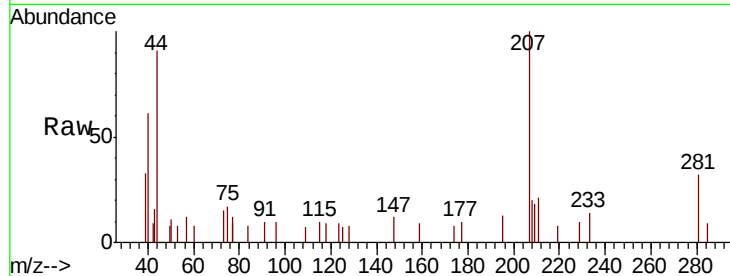
Tot Ion: 75 Resp: 464

Ion Ratio Lower Upper

75 100

53 15.3 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

