

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062456.D
 Acq On : 11 May 2019 13:24
 Operator : FY/SY
 Sample : K2754-02
 Misc : 6.63g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-5

Quant Time: May 12 03:45:49 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

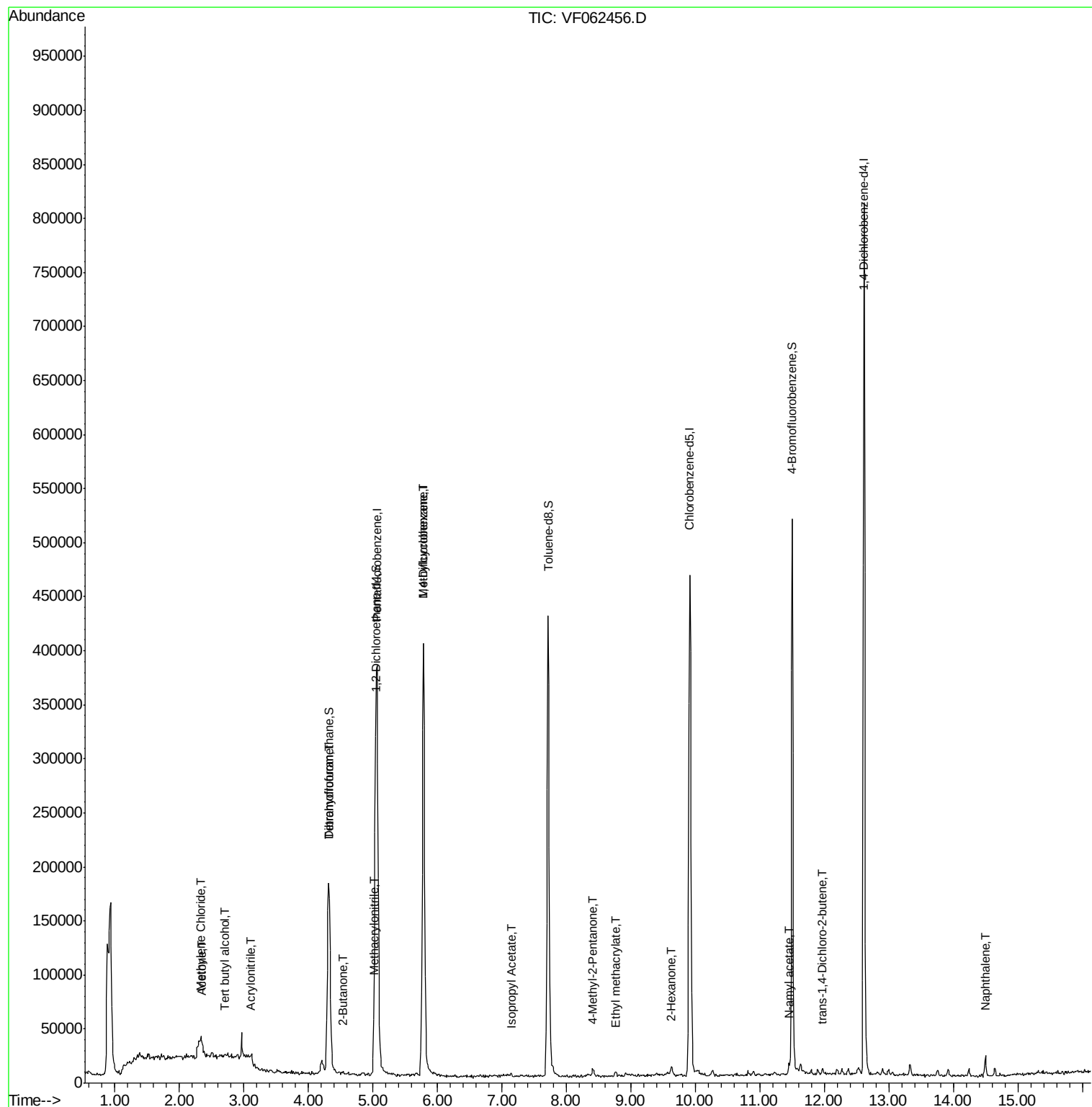
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	324026	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	425329	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	340765	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	211765	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	148592	48.52	ug/l	0.01
Spiked Amount 50.000			Recovery	=	97.04%	
35) Dibromofluoromethane	4.31	113	161812	47.75	ug/l	0.01
Spiked Amount 50.000			Recovery	=	95.50%	
50) Toluene-d8	7.72	98	342708	41.78	ug/l	0.01
Spiked Amount 50.000			Recovery	=	83.56%	
62) 4-Bromofluorobenzene	11.50	95	164175	44.36	ug/l	0.01
Spiked Amount 50.000			Recovery	=	88.72%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.38	94	214	Below Cal		90
11) Tert butyl alcohol	2.70	59	915	5.287 ug/l #		52
13) Acrolein	2.12	56	455	Below Cal #		17
15) Acrylonitrile	3.10	53	687	2.096 ug/l #		52
16) Acetone	2.35	43	13604	21.961 ug/l #		81
18) Methyl Acetate	2.45	43	1644	Below Cal		94
20) Methylene Chloride	2.33	84	15523	6.926 ug/l #		89
25) 2-Butanone	4.53	43	2097	2.695 ug/l #		60
29) Tetrahydrofuran	4.30	42	816	2.281 ug/l #		36
37) Ethyl Acetate	4.30	43	607	Below Cal #		1
38) Carbon Tetrachloride	4.20	117	71	Below Cal #		14
39) Methylcyclohexane	5.79	83	7197	1.964 ug/l #		41
41) Methacrylonitrile	5.00	41	999	1.140 ug/l #		18
43) Isopropyl Acetate	7.13	43	2654	1.597 ug/l #		57
49) 1,4-Dioxane	6.89	88	91	Below Cal #		35
51) 4-Methyl-2-Pentanone	8.41	43	7132	5.663 ug/l		91
56) Ethyl methacrylate	8.76	69	2140	1.287 ug/l #		69
59) 2-Hexanone	9.63	43	7014	8.053 ug/l		90
74) N-amyl acetate	11.45	43	7114	2.639 ug/l #		76
81) trans-1,4-Dichloro-2-buten	11.96	75	945	1.676 ug/l #		5
95) Naphthalene	14.50	128	13256	1.688 ug/l #		95

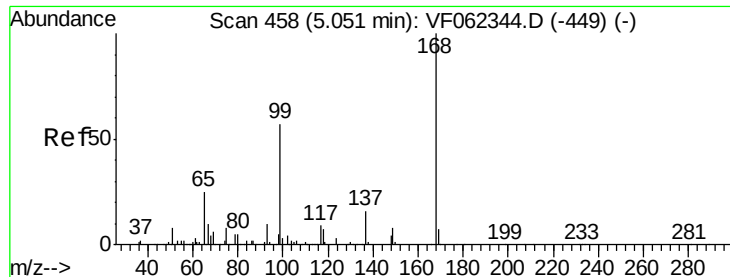
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 460

Delta R.T. 0.01 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

Instrument :

MSVOA_F

ClientSampled :

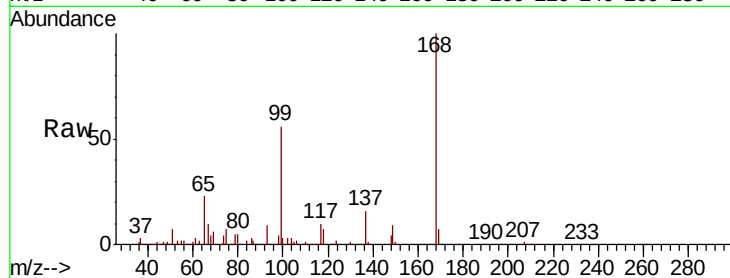
TP-5

Tot Ion:168 Resp: 324026

Ion Ratio Lower Upper

168 100

99 55.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

120000

100000

80000

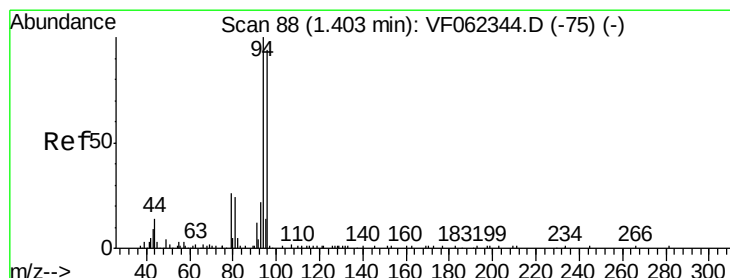
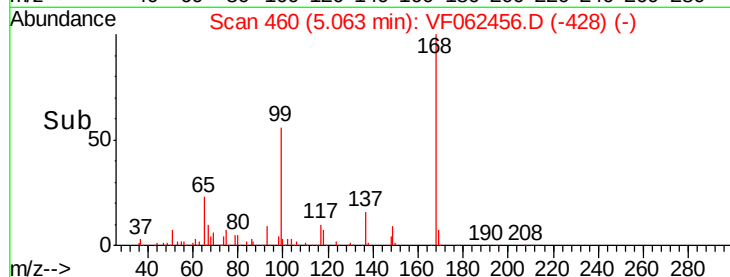
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.38 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF062456.D

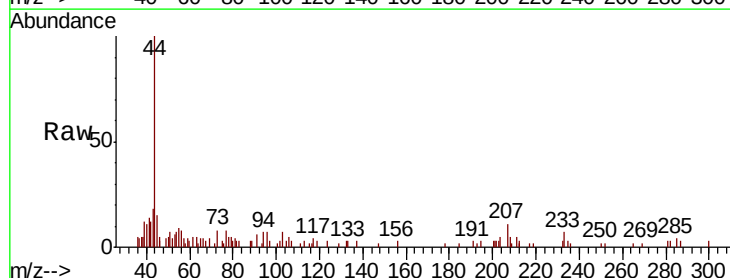
Acq: 11 May 2019 13:24

Tgt Ion: 94 Resp: 214

Ion Ratio Lower Upper

94 100

96 84.6 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.38

400

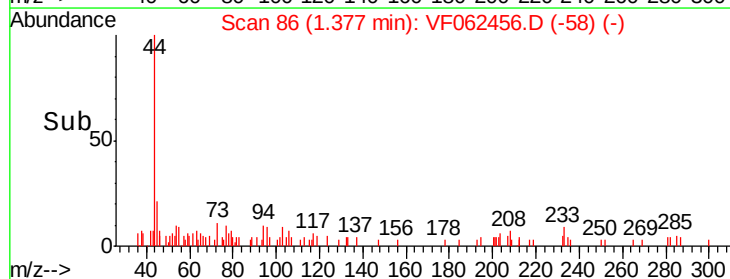
300

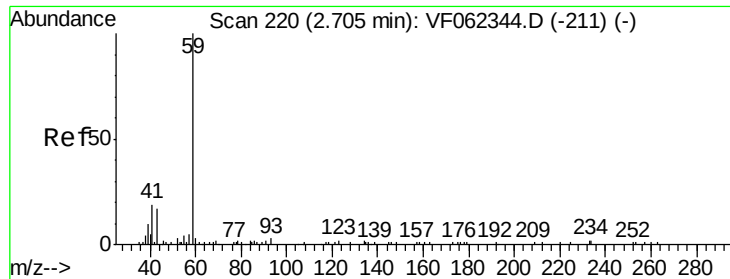
200

100

0

Time-->



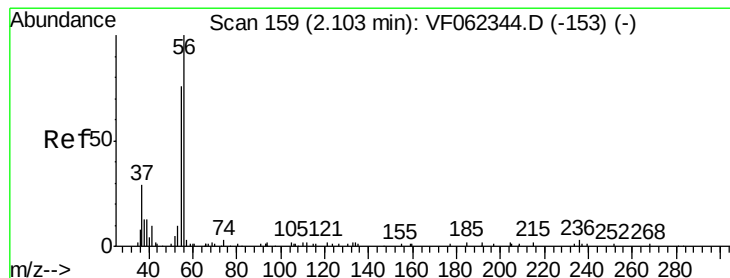
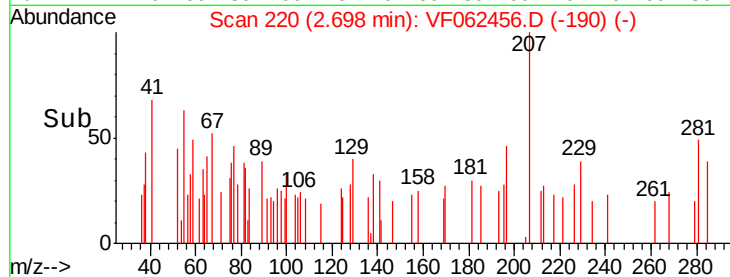
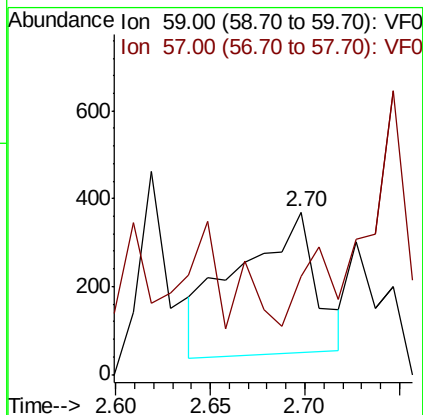
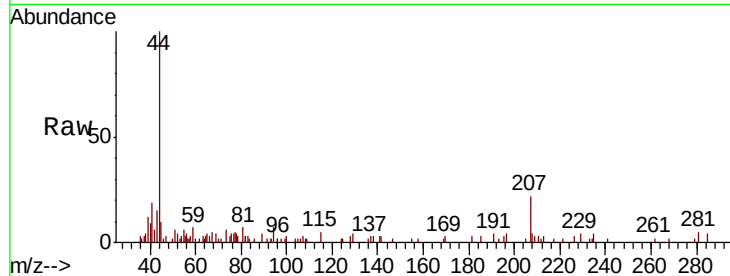


#11

Tert butyl alcohol
 Concen: 5.287 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062456.D
 Acq: 11 May 2019 13:24

Instrument :
 MSVOA_F
 ClientSampled :
 TP-5

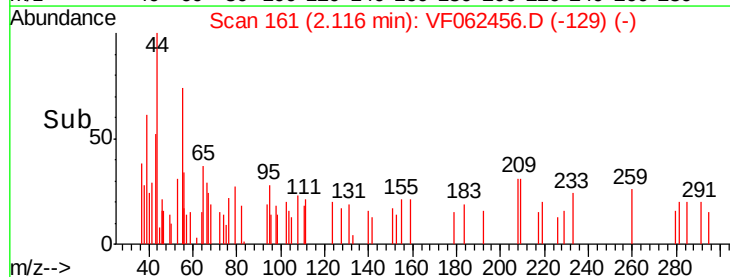
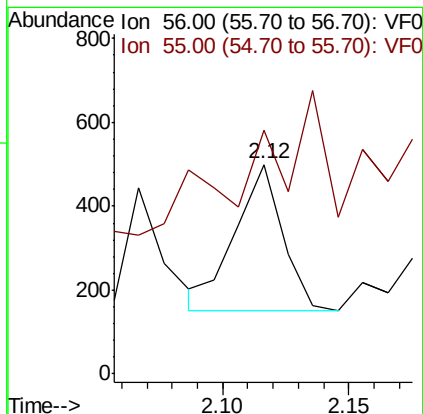
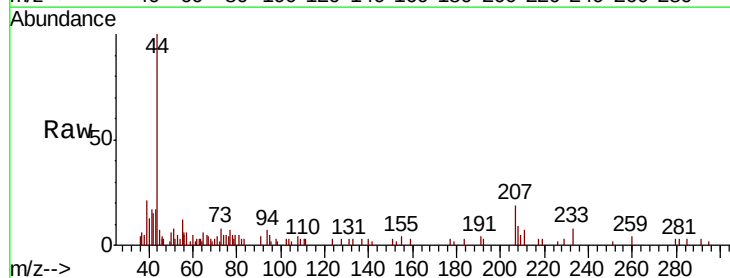
Tot Ion: 59 Resp: 915
 Ion Ratio Lower Upper
 59 100
 57 30.1 9.3 13.9#

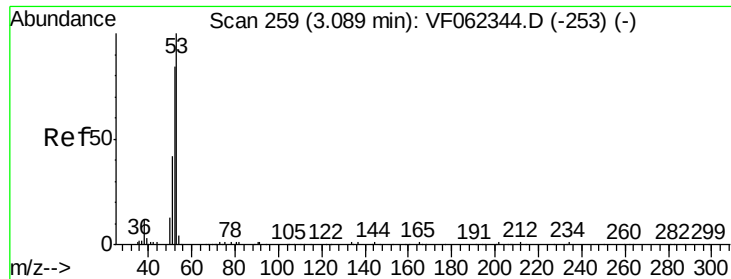


#13

Acrolein
 Concen: Below Cal
 RT: 2.12 min Scan# 161
 Delta R.T. 0.01 min
 Lab File: VF062456.D
 Acq: 11 May 2019 13:24

Tgt Ion: 56 Resp: 455
 Ion Ratio Lower Upper
 56 100
 55 142.6 58.4 87.6#





#15

Acrylonitrile

Concen: 2.096 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

Instrument :
MSVOA_F
ClientSampled :
TP-5

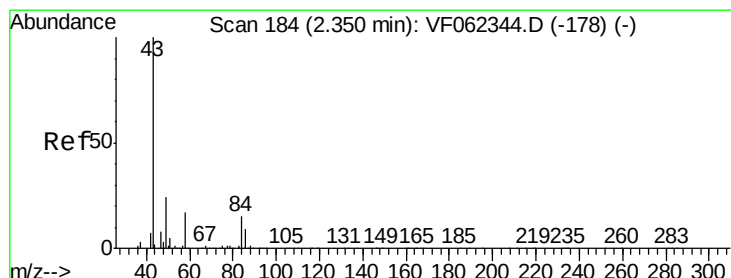
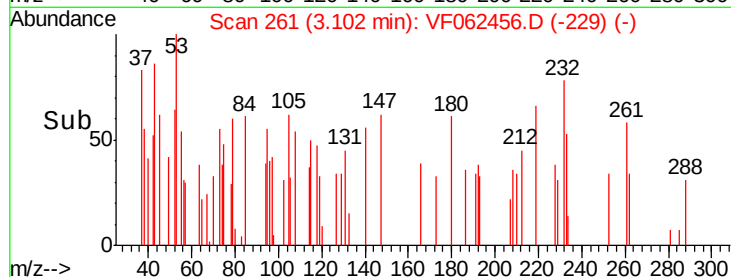
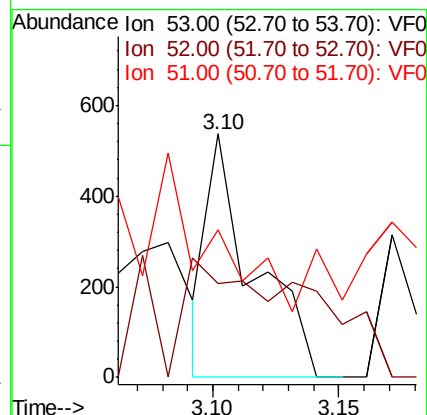
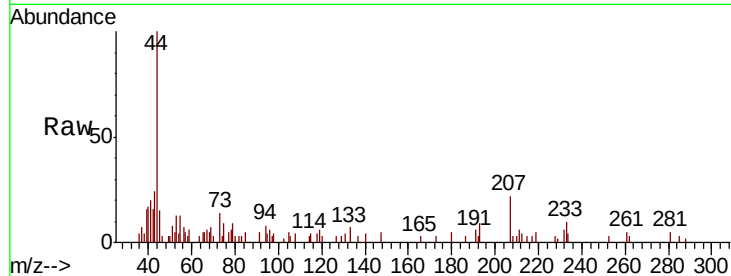
Tot Ion: 53 Resp: 687

Ion Ratio Lower Upper

53 100

52 130.6 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 21.961 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062456.D

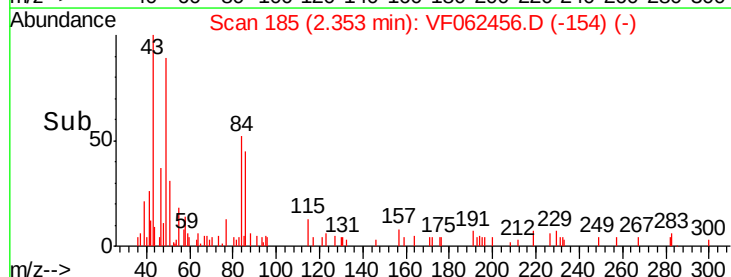
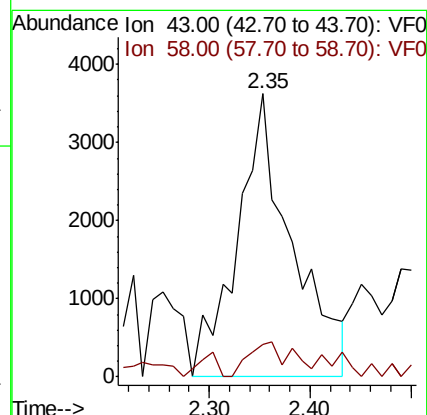
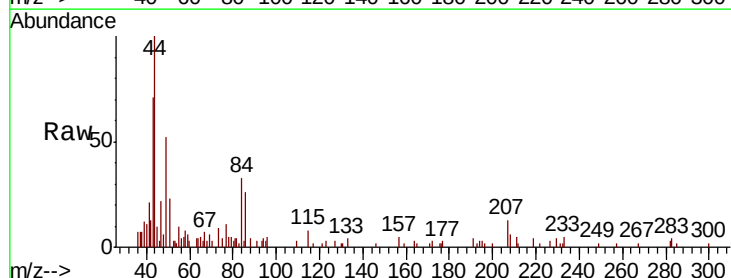
Acq: 11 May 2019 13:24

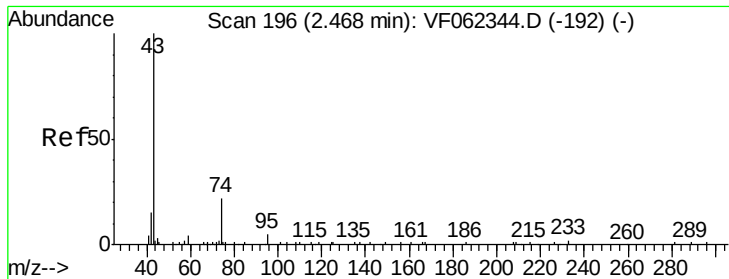
Tgt Ion: 43 Resp: 13604

Ion Ratio Lower Upper

43 100

58 8.3 13.1 19.7#

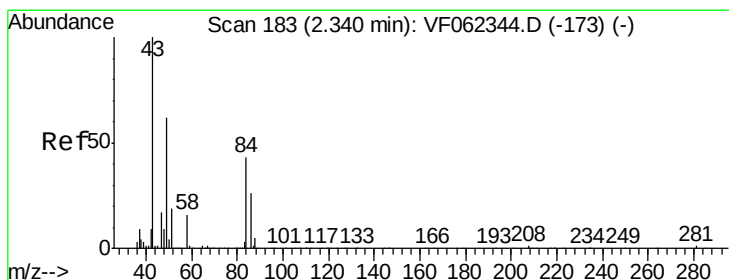
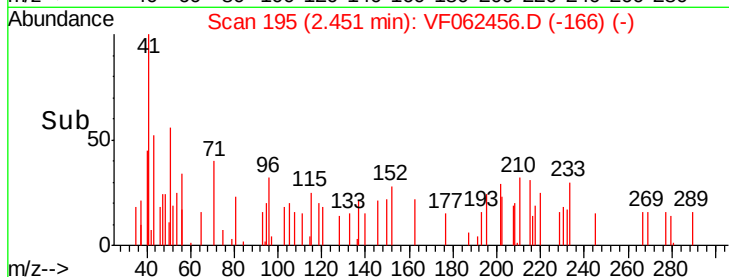
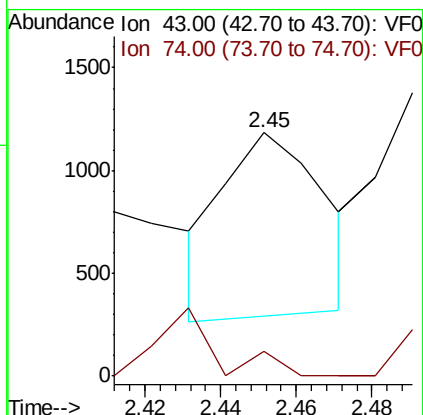
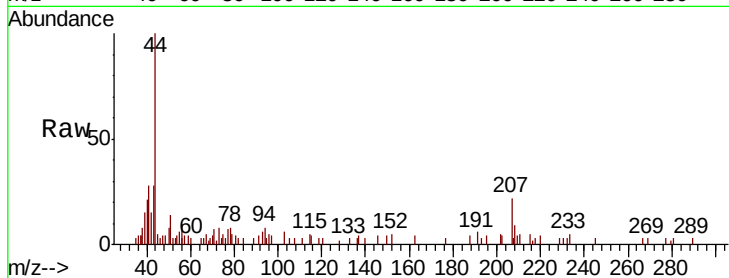




#18
Methvl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

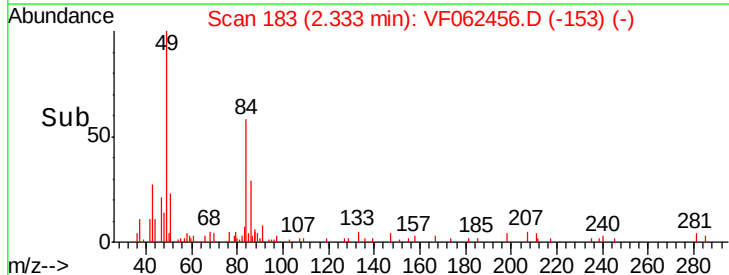
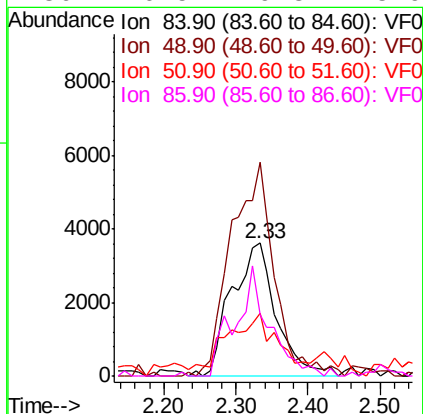
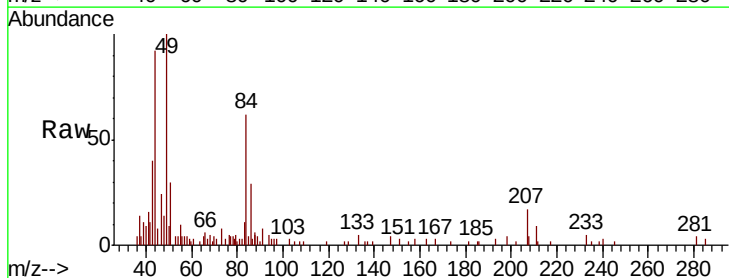
Instrument :
MSVOA_F
ClientSampled :
TP-5

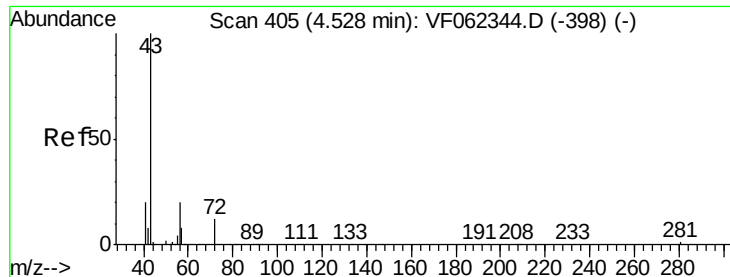
Tot Ion: 43 Resp: 1644
Ion Ratio Lower Upper
43 100
74 21.6 15.0 22.4



#20
Methylene Chloride
Concen: 6.926 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion: 84 Resp: 15523
Ion Ratio Lower Upper
84 100
49 157.6 117.5 176.3
51 42.6 37.0 55.4
86 46.5 49.3 73.9#





#25

2-Butanone

Concen: 2.695 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

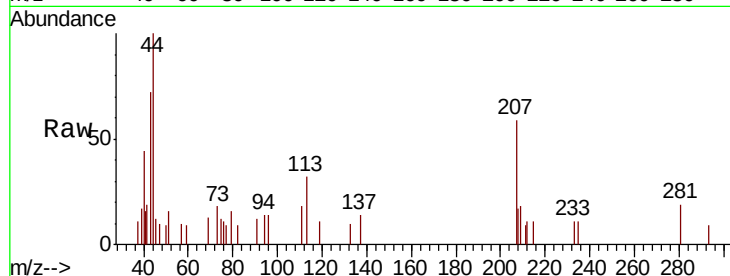
Instrument :
MSVOA_F
ClientSampled :
TP-5

Tot Ion: 43 Resp: 2097

Ion Ratio Lower Upper

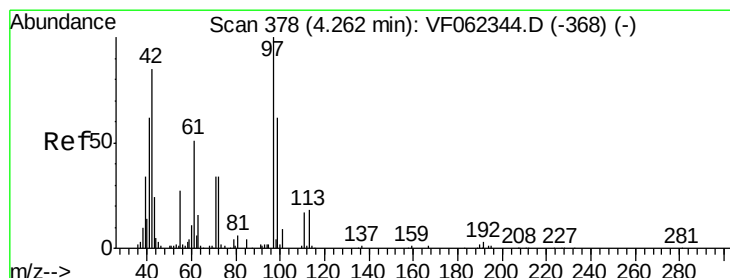
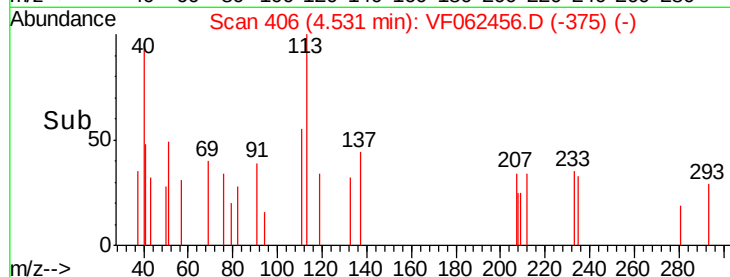
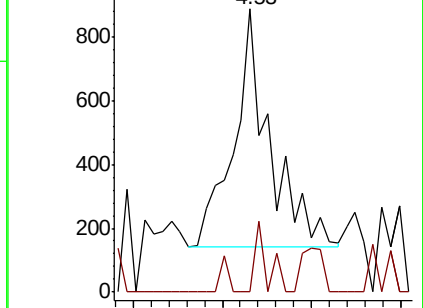
43 100

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: 2.281 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.04 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

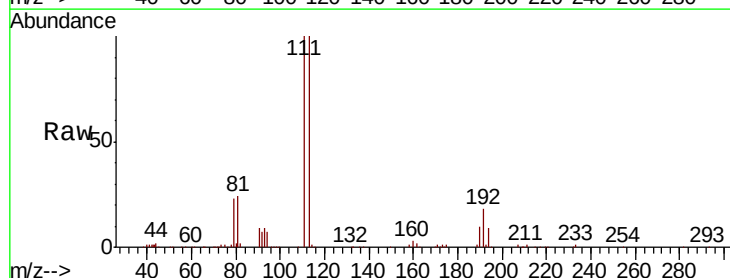
Tgt Ion: 42 Resp: 816

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

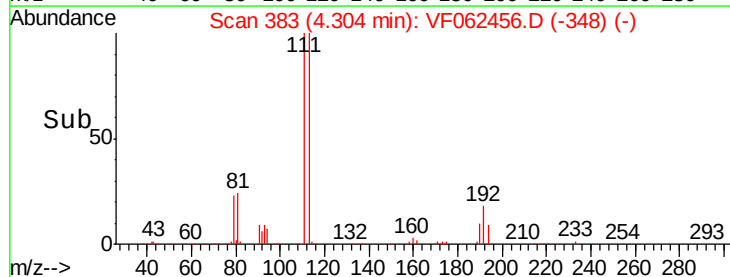
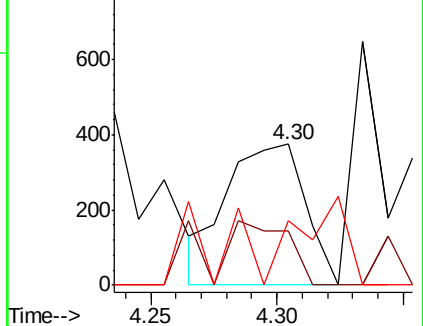
71 0.0 31.7 47.5#

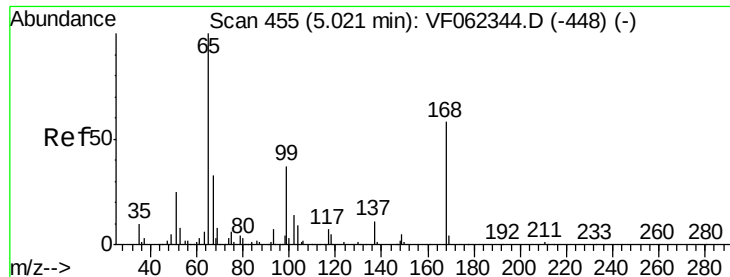


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

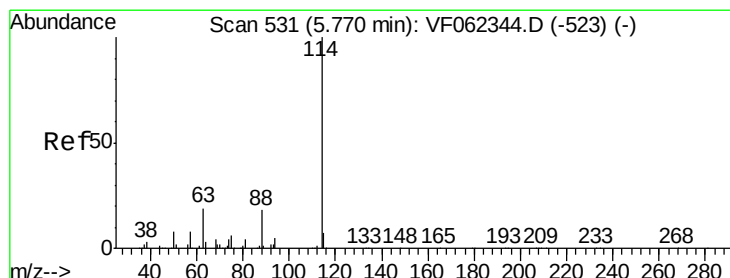
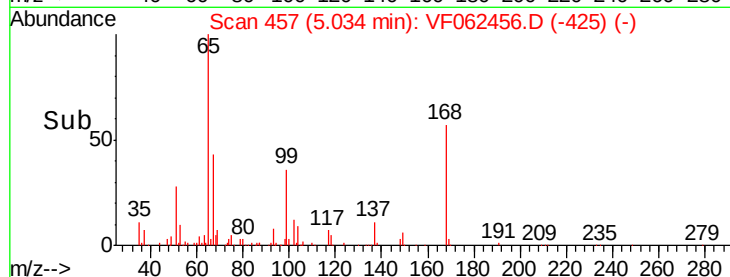
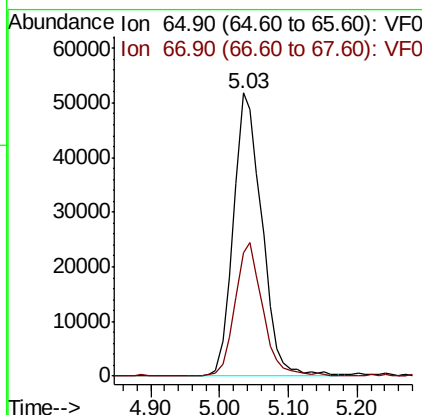
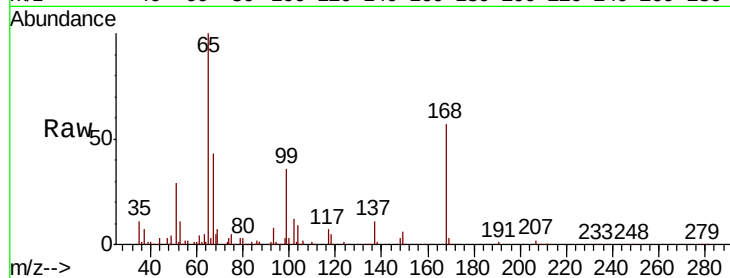




#33
 1,2-Dichloroethane-d4
 Concen: 48.525 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062456.D
 Acq: 11 May 2019 13:24

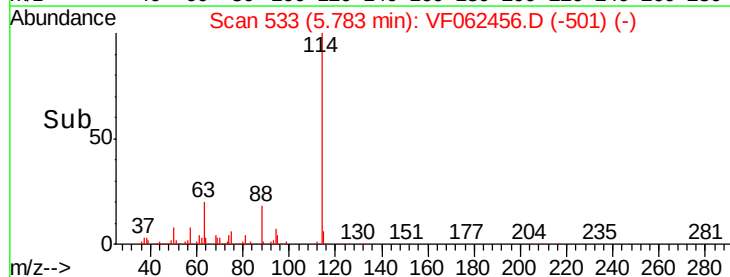
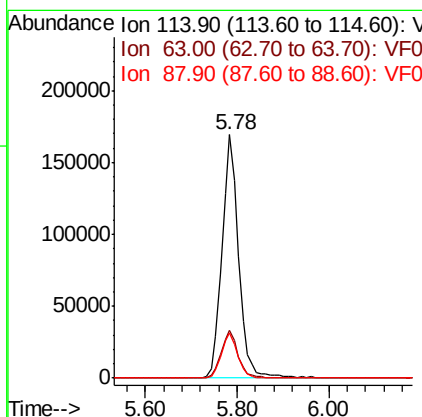
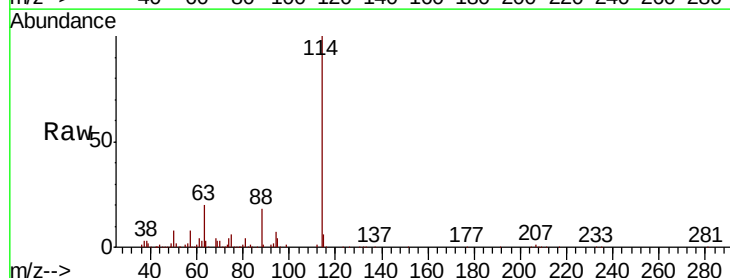
Instrument :
 MSVOA_F
 ClientSampled :
 TP-5

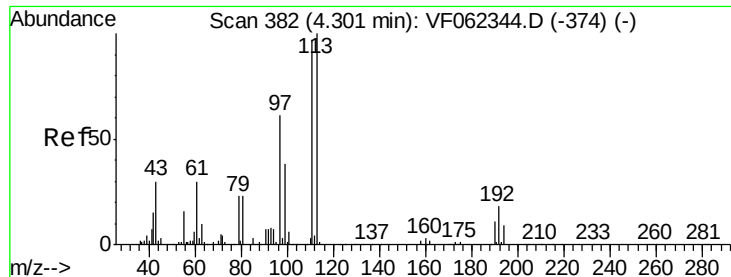
Tot Ion: 65 Resp: 148592
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062456.D
 Acq: 11 May 2019 13:24

Tgt Ion: 114 Resp: 425329
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 37.4
 88 18.5 0.0 36.4

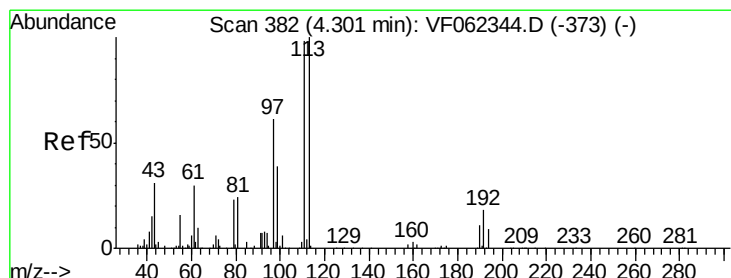
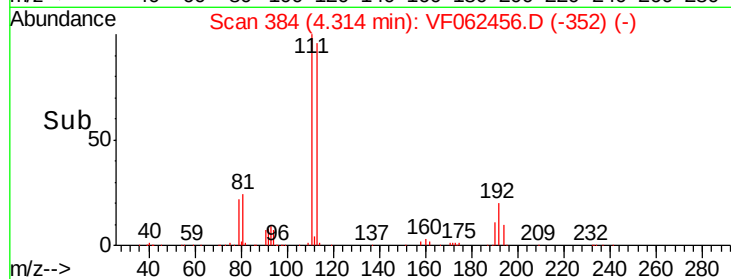
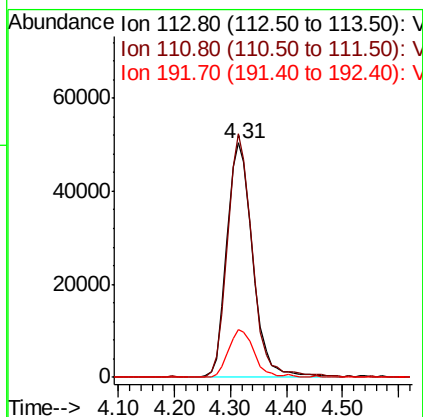
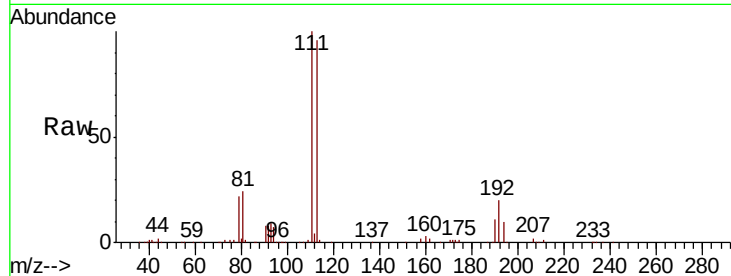




#35
Dibromofluoromethane
Concen: 47.753 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

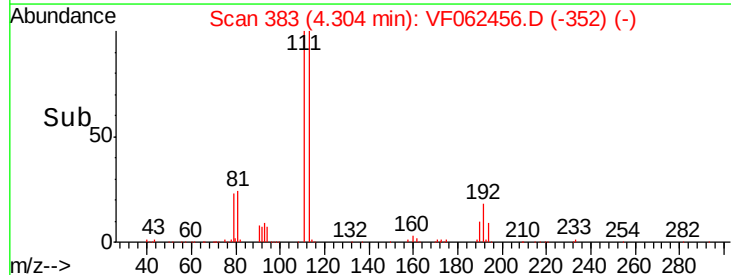
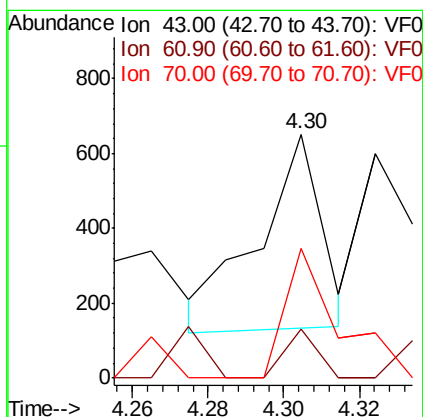
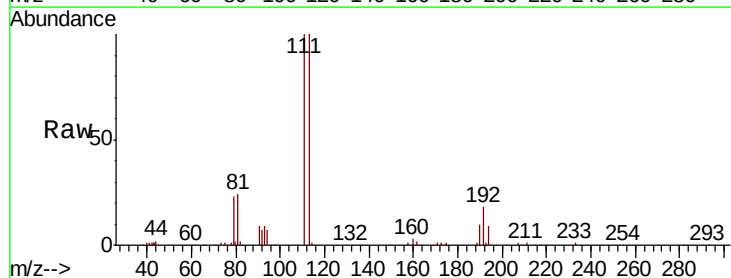
Instrument :
MSVOA_F
ClientSampleId :
TP-5

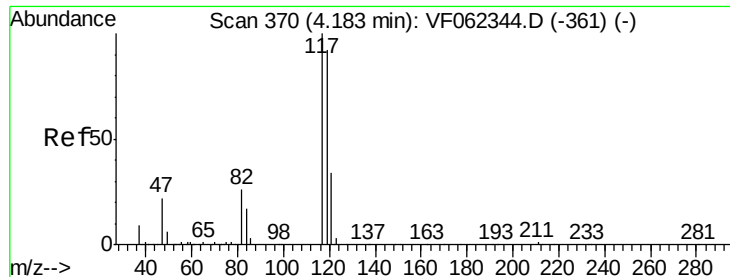
Tot Ion:113 Resp: 161812
Ion Ratio Lower Upper
113 100
111 100.0 79.4 119.0
192 19.8 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 383
Delta R.T. 0.00 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
61 12.5 0.0 0.0#
70 56.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.20 min Scan# 372

Delta R.T. 0.01 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

Instrument :

MSVOA_F

ClientSampled :

TP-5

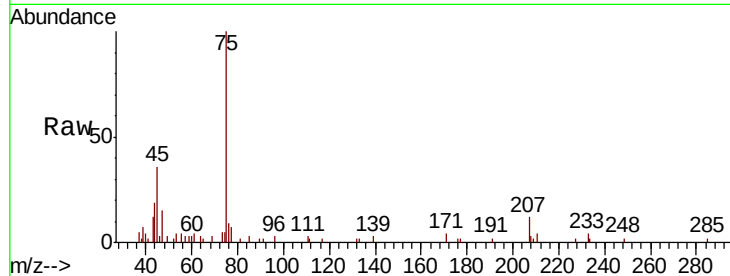
Tot Ion:117 Resp: 71

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

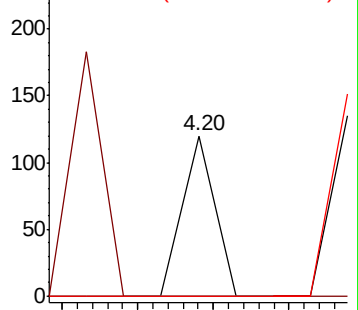
121 0.0 27.4 41.0#



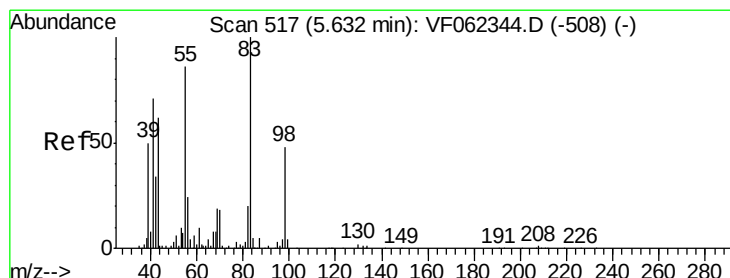
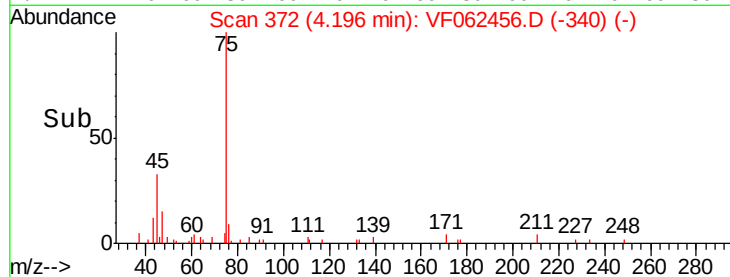
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#39

Methylcyclohexane

Concen: 1.964 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

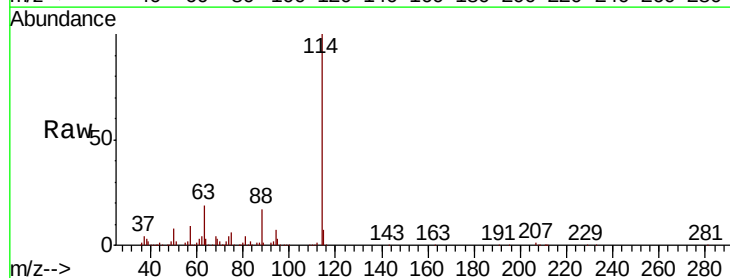
Tgt Ion: 83 Resp: 7197

Ion Ratio Lower Upper

83 100

55 38.4 69.0 103.6#

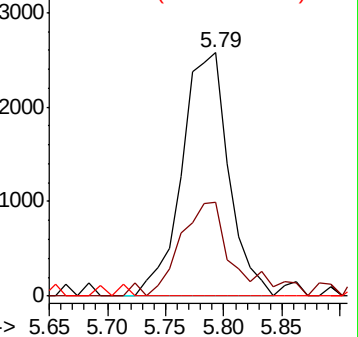
98 0.0 38.6 58.0#



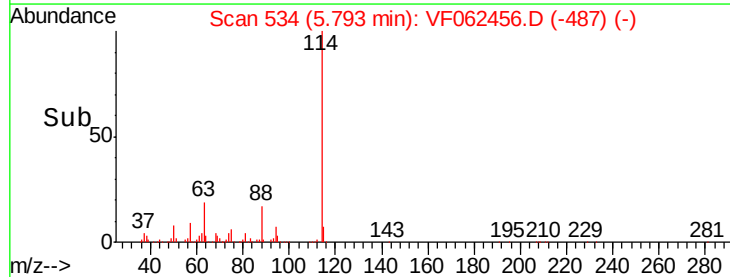
Abundance Ion 83.00 (82.70 to 83.70): VF0

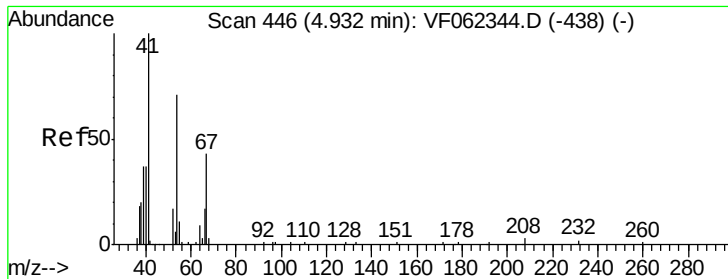
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->

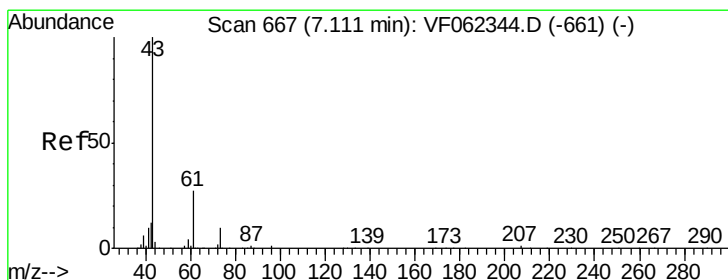
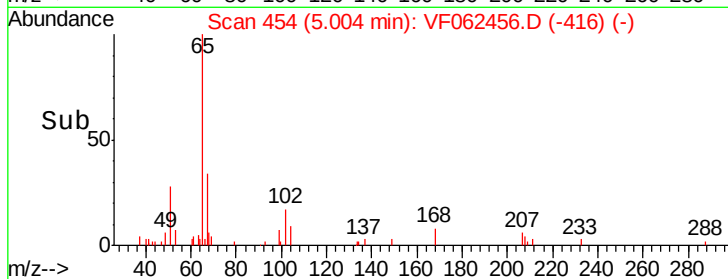
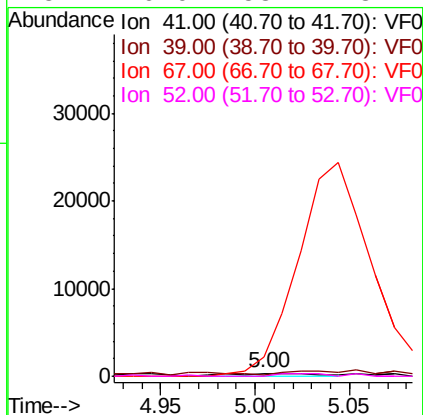
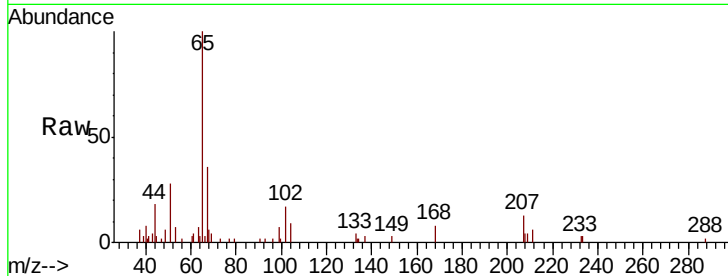




#41
Methacrylonitrile
Concen: 1.140 ug/l
RT: 5.00 min Scan# 454
Delta R.T. 0.07 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

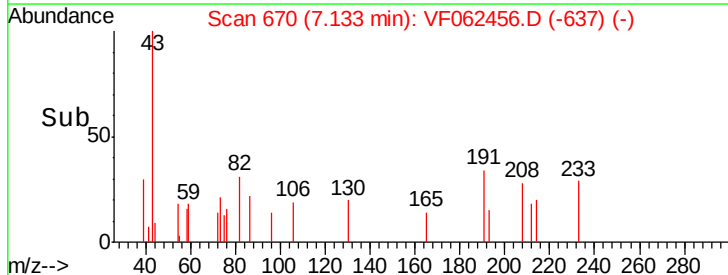
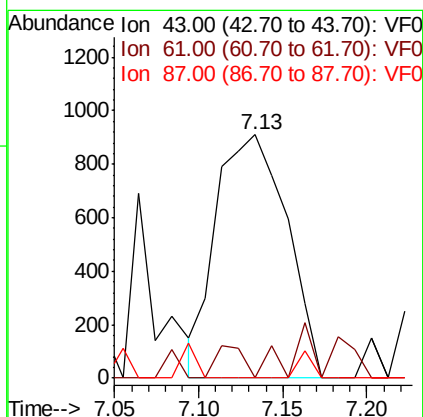
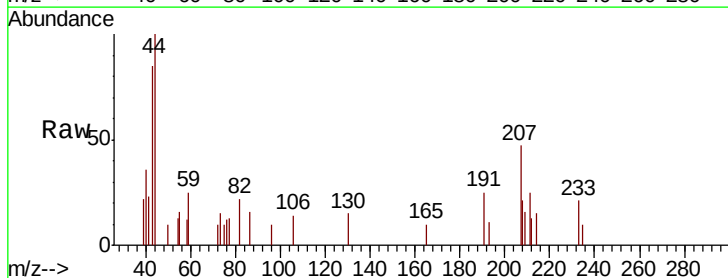
Instrument :
MSVOA_F
ClientSampled :
TP-5

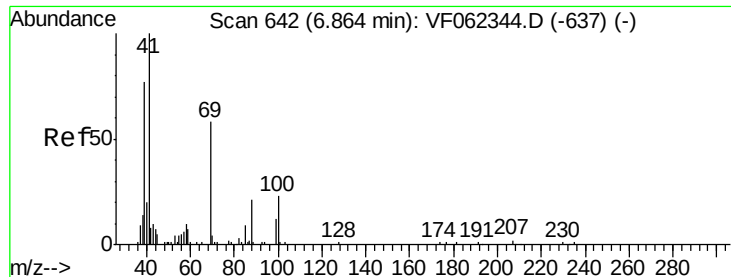
Tot Ion:	41	Resp:	999
Ion	Ratio	Lower	Upper
41	100		
39	0.0	54.3	81.5#
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#



#43
Isopropyl Acetate
Concen: 1.597 ug/l
RT: 7.13 min Scan# 670
Delta R.T. 0.02 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion:	43	Resp:	2654
Ion	Ratio	Lower	Upper
43	100		
61	5.2	22.8	34.2#
87	0.0	0.6	1.0#

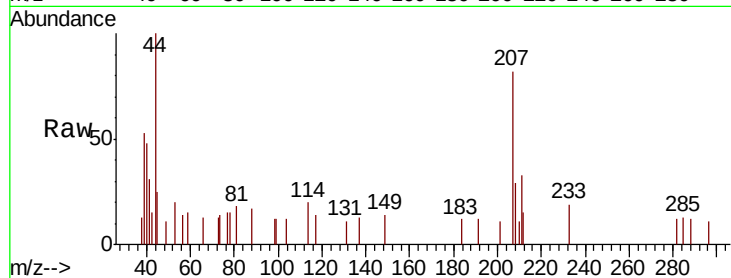




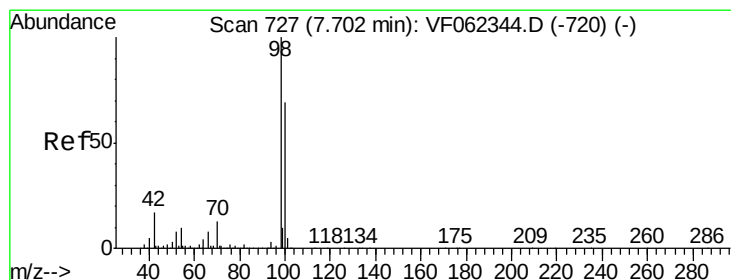
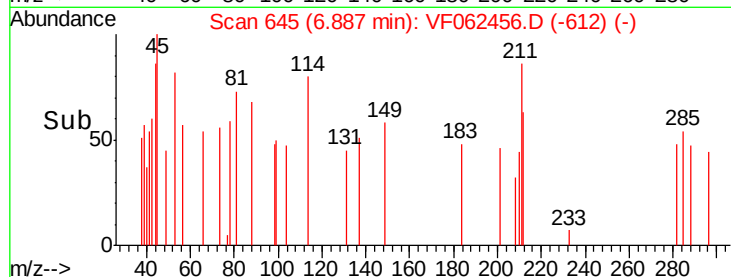
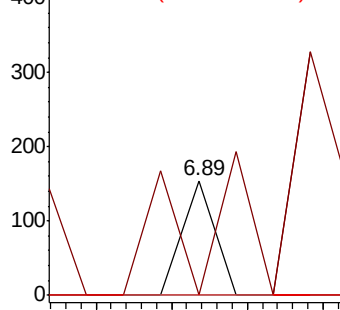
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.89 min Scan# 645
Delta R.T. 0.02 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Instrument :
MSVOA_F
ClientSampled :
TP-5

Tot Ion: 88 Resp: 91
Ion Ratio Lower Upper
88 100
43 108.8 55.6 83.4#
58 0.0 52.8 79.2#

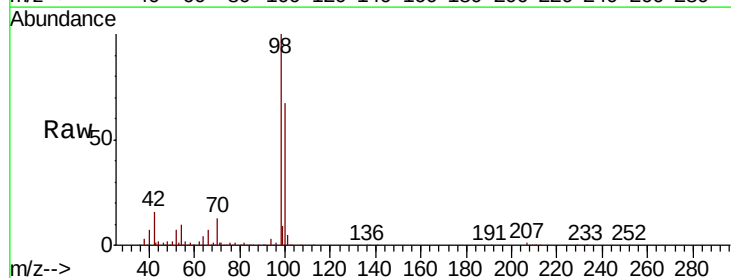


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

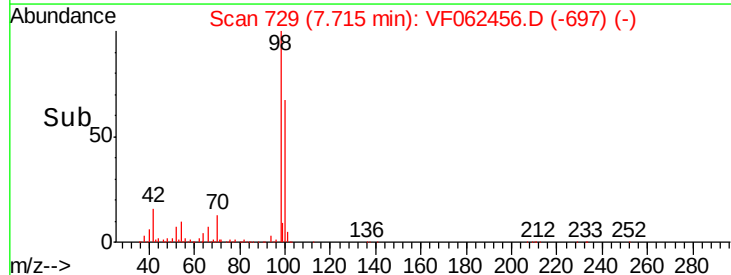
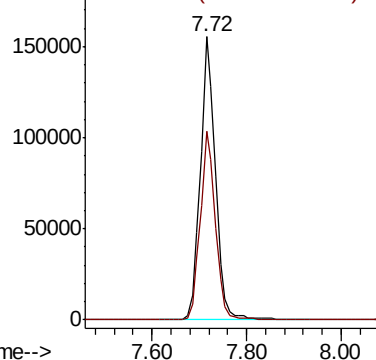


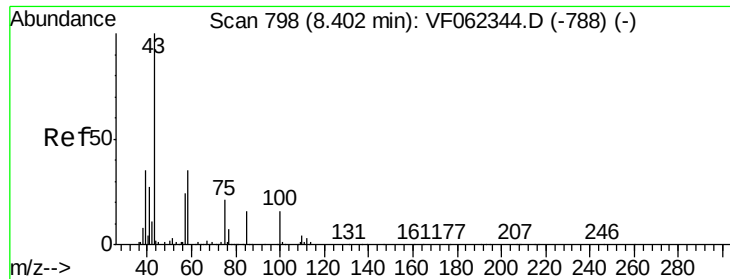
#50
Toluene-d8
Concen: 41.781 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion: 98 Resp: 342708
Ion Ratio Lower Upper
98 100
100 67.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 5.663 ug/l

RT: 8.41 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

Instrument :

MSVOA_F

ClientSampleId :

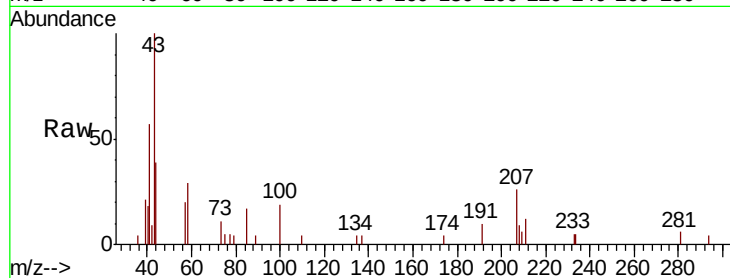
TP-5

Tot Ion: 43 Resp: 7132

Ion Ratio Lower Upper

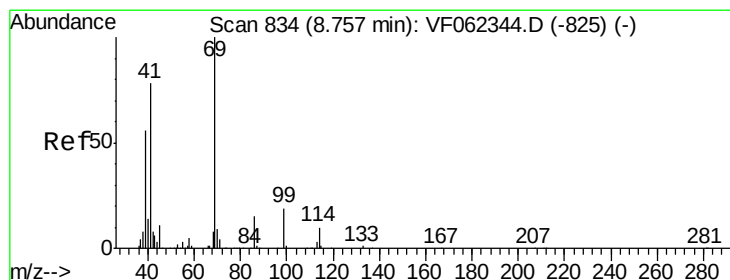
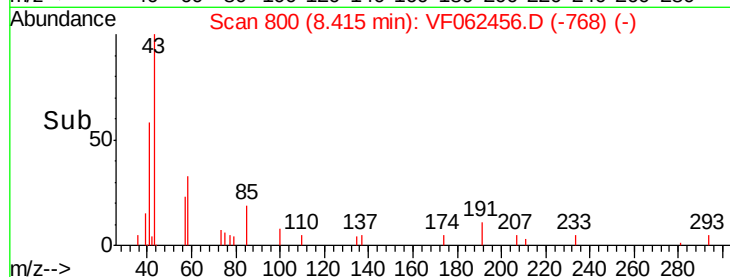
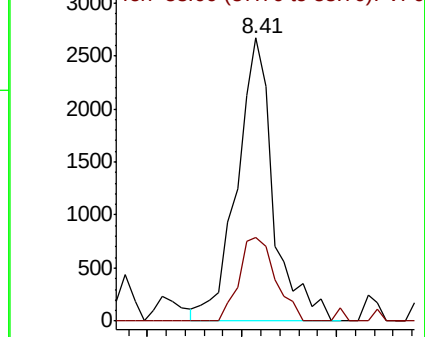
43 100

58 29.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 1.287 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

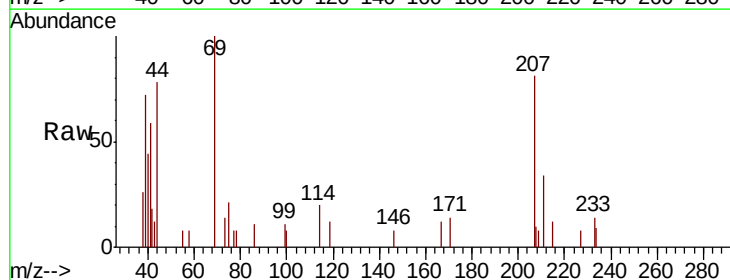
Tgt Ion: 69 Resp: 2140

Ion Ratio Lower Upper

69 100

41 107.6 66.3 99.5#

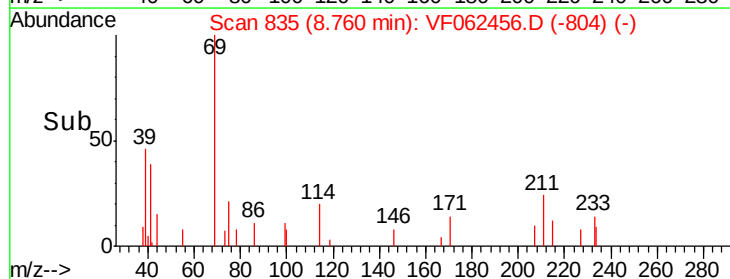
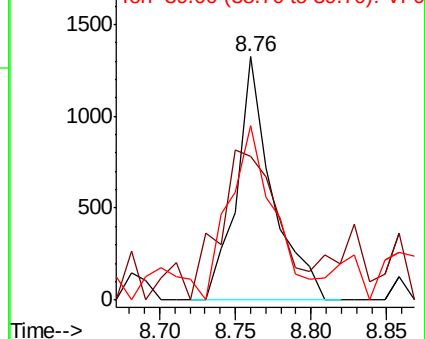
39 90.2 50.1 75.1#

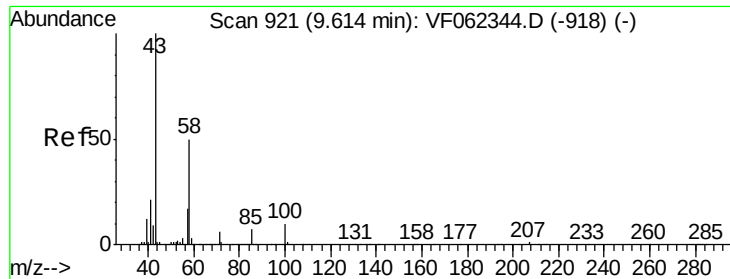


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

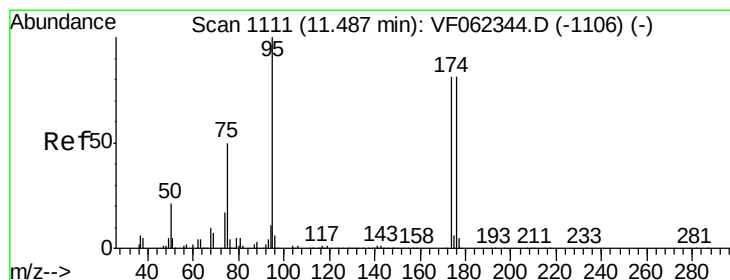
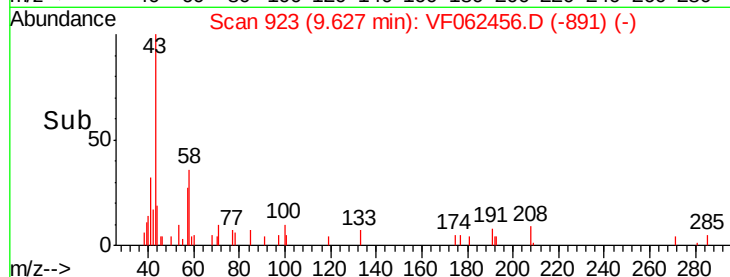
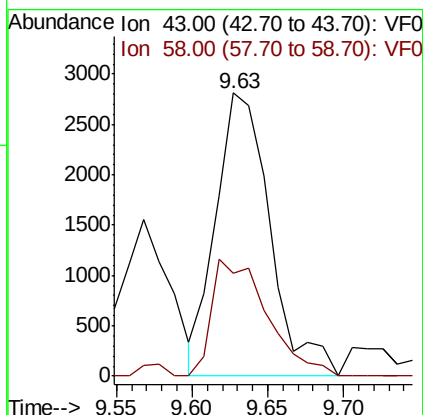
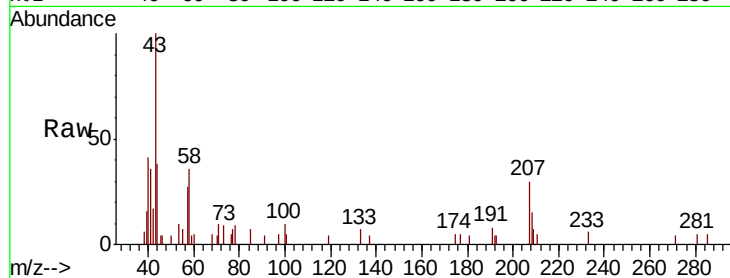




#59
2-Hexanone
Concen: 8.053 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

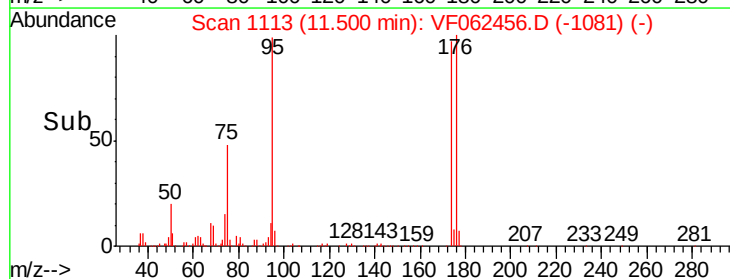
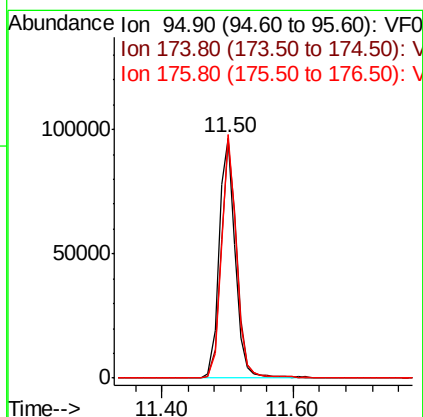
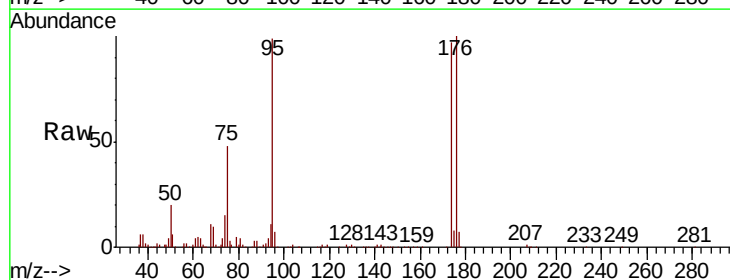
Instrument :
MSVOA_F
ClientSampled :
TP-5

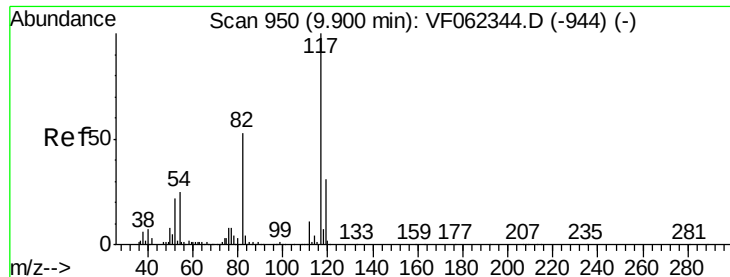
Tot Ion: 43 Resp: 7014
Ion Ratio Lower Upper
43 100
58 42.0 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 44.364 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion: 95 Resp: 164175
Ion Ratio Lower Upper
95 100
174 96.4 0.0 191.8
176 94.6 0.0 193.2

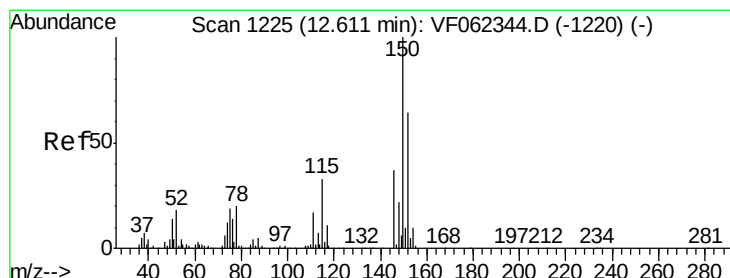
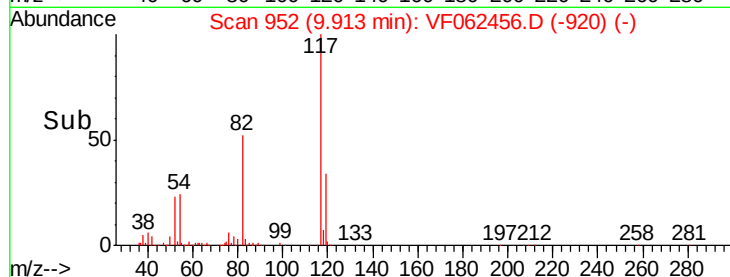
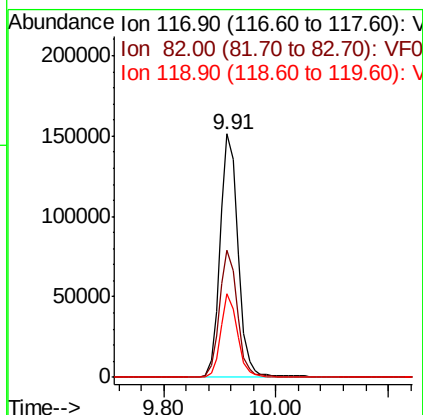
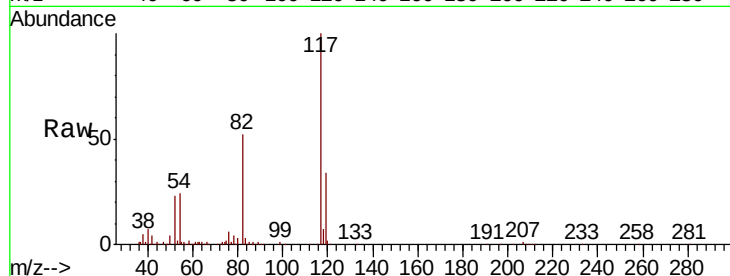




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

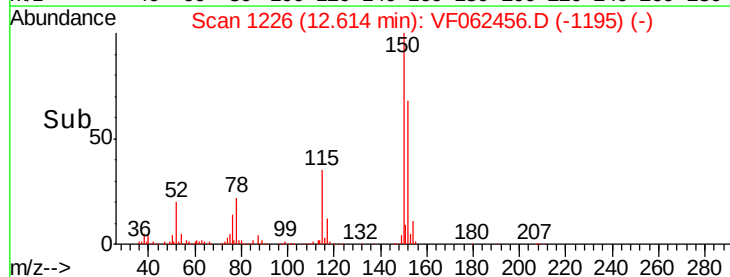
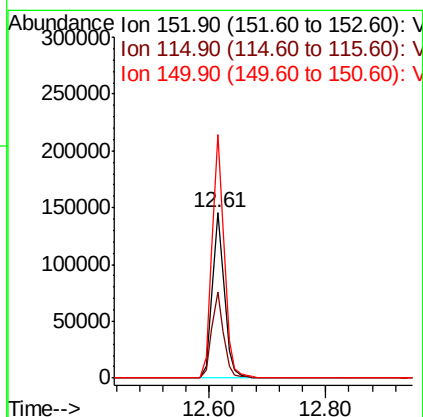
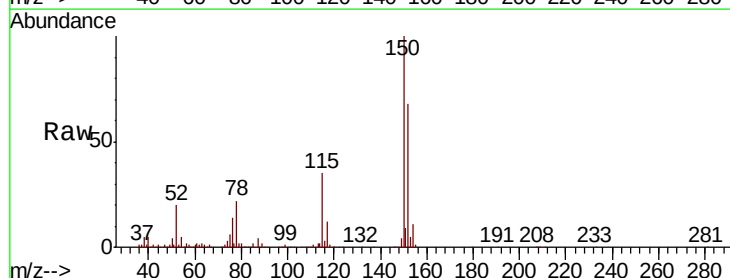
Instrument :
MSVOA_F
ClientSampleId :
TP-5

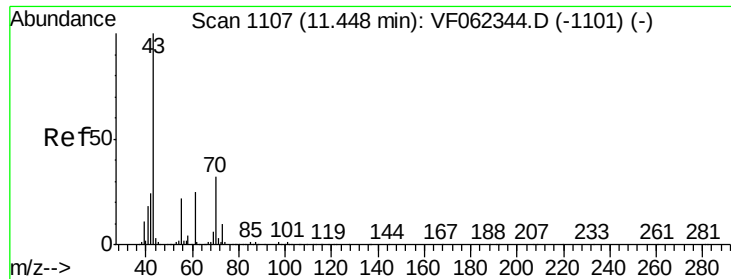
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.2	63.2
119	34.2	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.7	26.4	79.2
150	148.3	0.0	335.0





#74

N-amvl acetate

Concen: 2.639 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

Instrument :

MSVOA_F

ClientSampleId :

TP-5

Tot Ion: 43 Resp: 7114

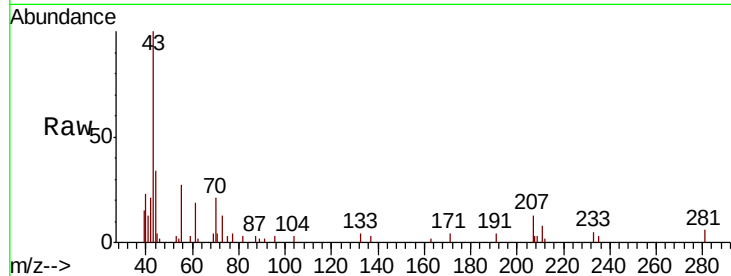
Ion Ratio Lower Upper

43 100

70 25.9 26.5 39.7#

55 27.5 17.8 26.6#

61 0.0 20.2 30.2#

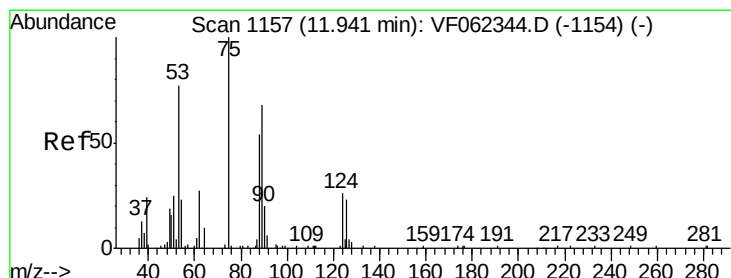
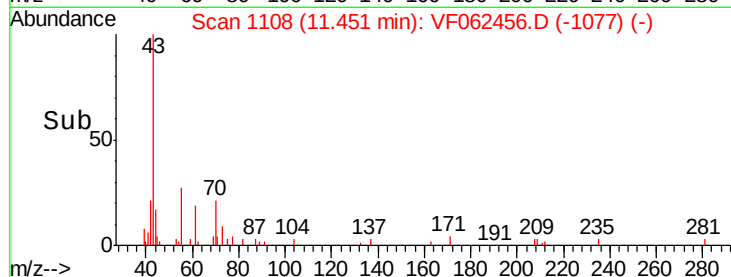
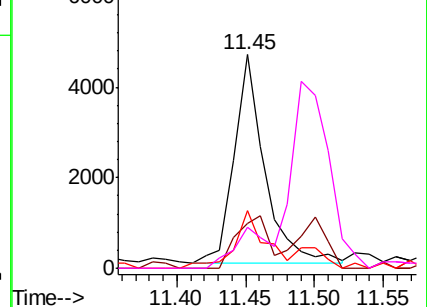


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.676 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062456.D

Acq: 11 May 2019 13:24

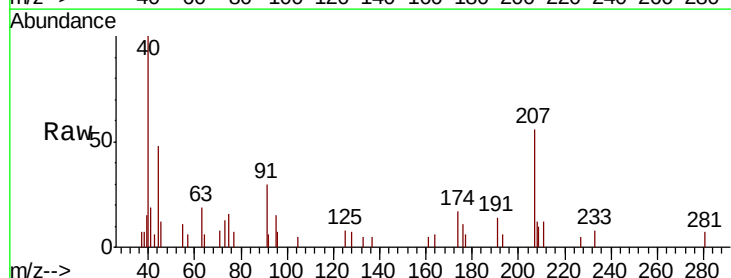
Tgt Ion: 75 Resp: 945

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

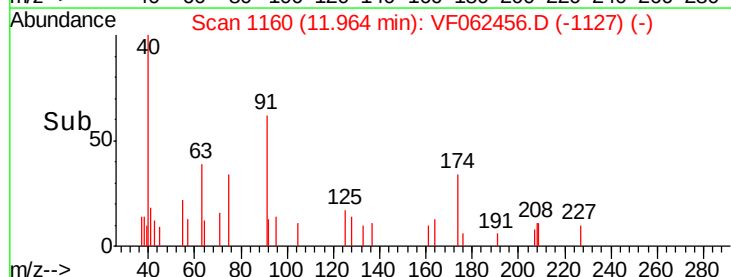
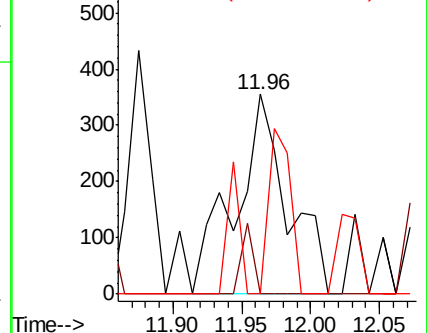
89 34.1 0.0 0.0#

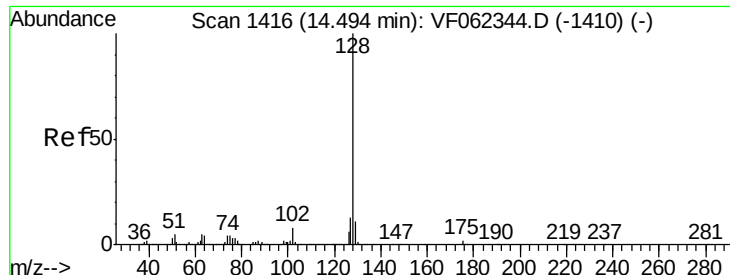


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

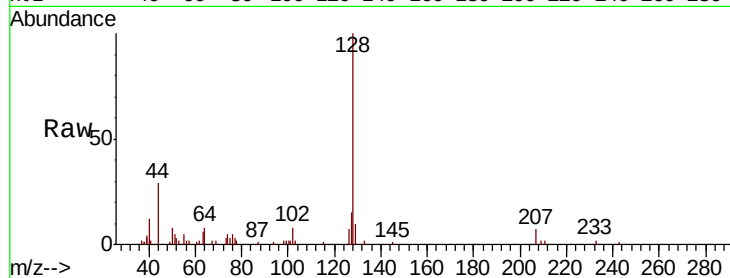




#95
Naphthalene
Concen: 1.688 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062456.D
Acq: 11 May 2019 13:24

Instrument :
MSVOA_F
ClientSampleId :
TP-5

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.5	15.7#
129	11.9	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

