

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062292.D
 Acq On : 25 Apr 2019 15:18
 Operator : FY/SY
 Sample : K2203-17RE
 Misc : 6.77g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-03-042419-ARE

Quant Time: Apr 26 01:08:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	388965	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	570350	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	361817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	184710	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	198572	63.03	ug/l	0.00
Spiked Amount			Recovery	=	126.06%	
35) Dibromofluoromethane	4.30	113	237843	56.24	ug/l	-0.02
Spiked Amount			Recovery	=	112.48%	
50) Toluene-d8	7.72	98	451913	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	
62) 4-Bromofluorobenzene	11.50	95	175963	41.33	ug/l	0.00
Spiked Amount			Recovery	=	82.66%	

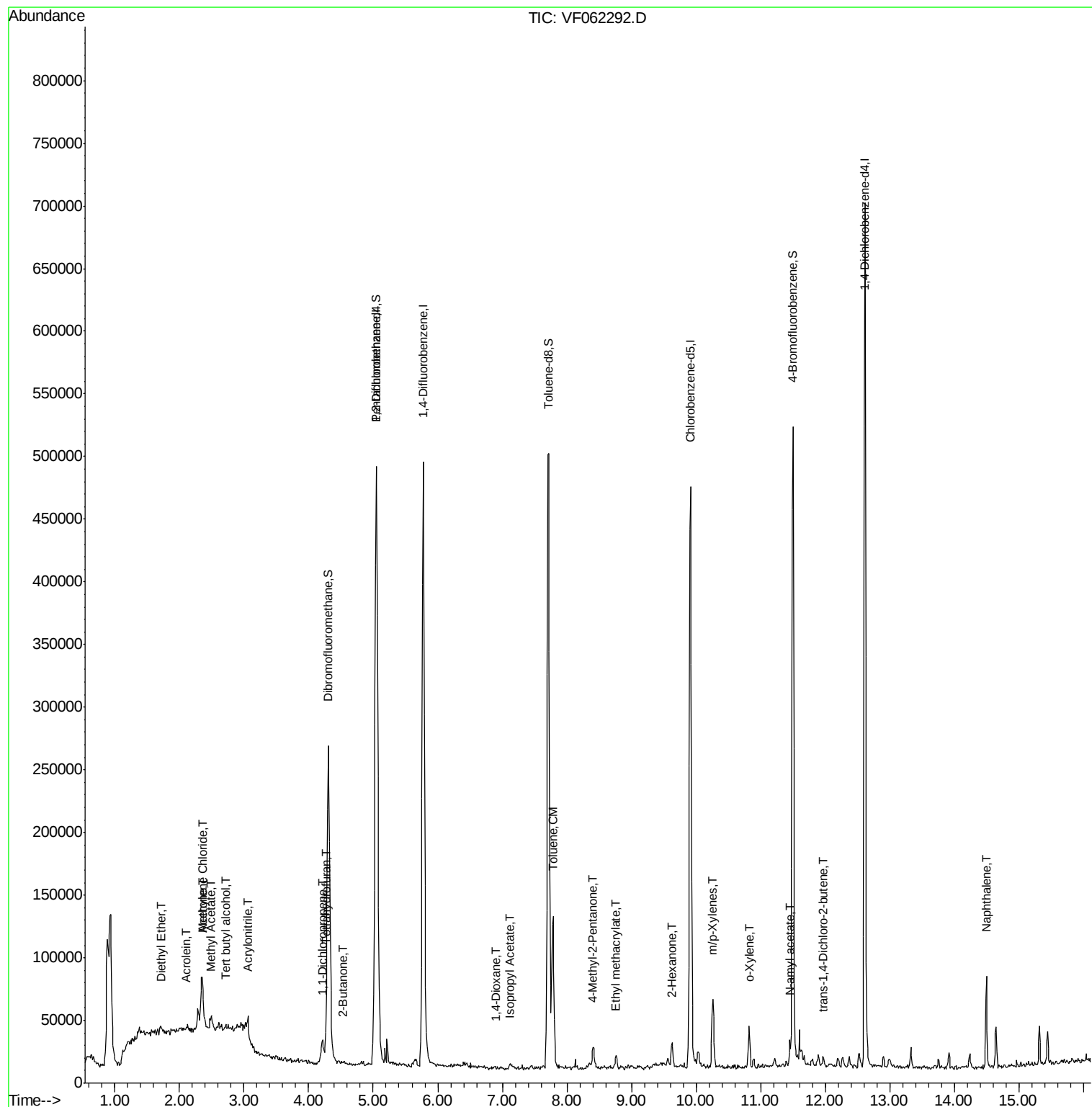
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.71	74	1843	1.736	ug/l	89
11) Tert butyl alcohol	2.72	59	700	3.673	ug/l #	71
13) Acrolein	2.11	56	657	11.805	ug/l #	58
15) Acrylonitrile	3.05	53	1037	1.965	ug/l #	41
16) Acetone	2.35	43	30213	42.830	ug/l #	85
18) Methyl Acetate	2.50	43	5778	1.501	ug/l #	80
20) Methylene Chloride	2.34	84	19204	1.230	ug/l	96
25) 2-Butanone	4.53	43	8891	7.949	ug/l #	79
29) Tetrahydrofuran	4.27	42	563	1.146	ug/l #	1
36) 1,1-Dichloropropene	4.22	75	26227	4.984	ug/l #	44
43) Isopropyl Acetate	7.12	43	5392	2.175	ug/l #	95
49) 1,4-Dioxane	6.90	88	218	11.673	ug/l #	24
51) 4-Methyl-2-Pentanone	8.41	43	16818	9.642	ug/l	94
52) Toluene	7.78	92	64795	8.833	ug/l	98
56) Ethyl methacrylate	8.76	69	5707	2.493	ug/l #	85
59) 2-Hexanone	9.63	43	19612	4.483	ug/l	90
68) m/p-Xylenes	10.26	106	18726	4.376	ug/l	86
69) o-Xylene	10.82	106	9624	2.013	ug/l	89
74) N-amyl acetate	11.45	43	10637	3.648	ug/l #	90
81) trans-1,4-Dichloro-2-buten	11.96	75	833	1.306	ug/l #	16
95) Naphthalene	14.50	128	52306	7.153	ug/l	99

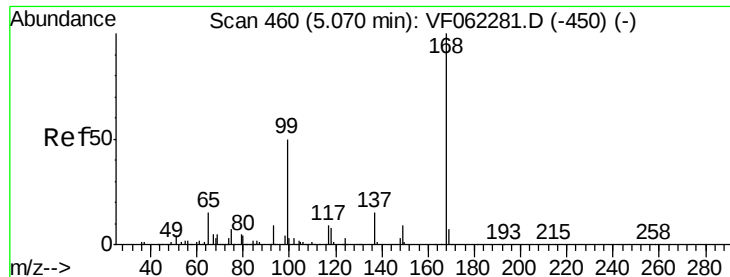
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. -0.02 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

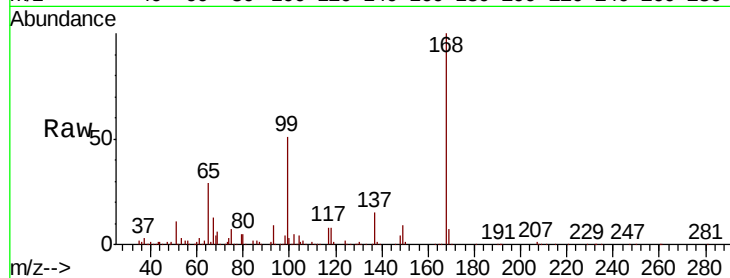
SU-03-042419-ARE

Tot Ion:168 Resp: 388965

Ion Ratio Lower Upper

168 100

99 51.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

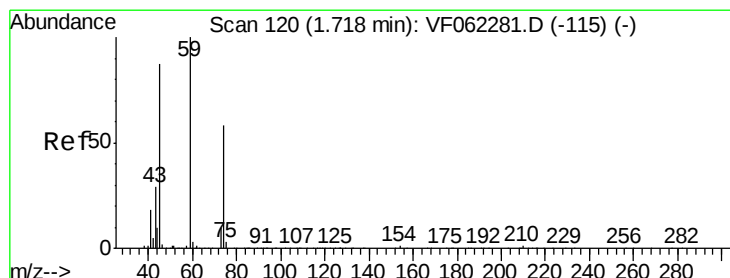
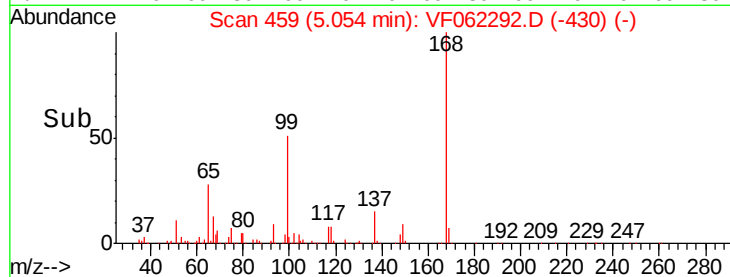
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.736 ug/l

RT: 1.71 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF062292.D

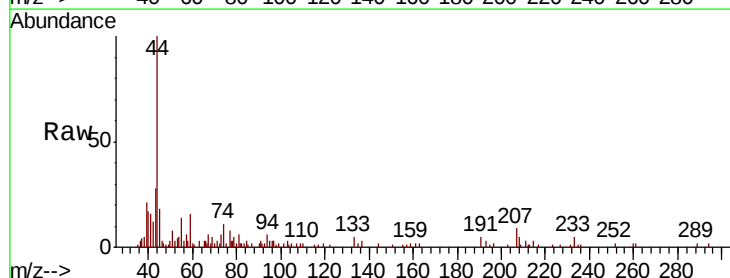
Acq: 25 Apr 2019 15:18

Tgt Ion: 74 Resp: 1843

Ion Ratio Lower Upper

74 100

45 134.3 74.0 222.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

2000

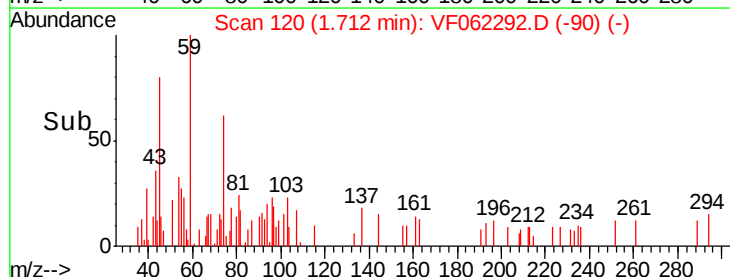
1500

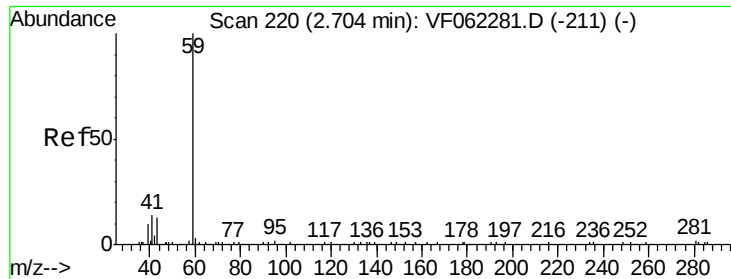
1000

500

0

Time-->

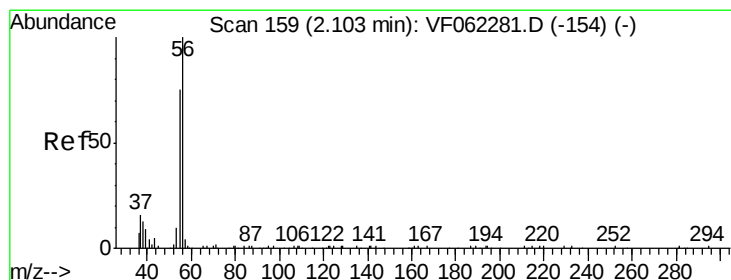
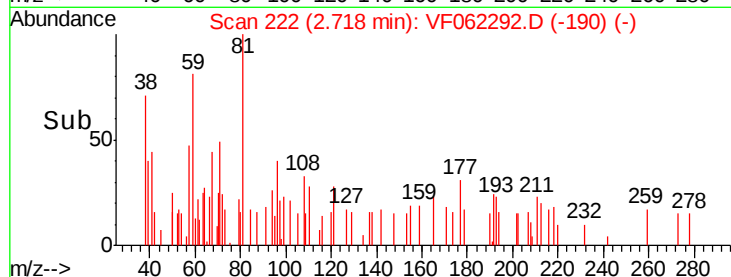
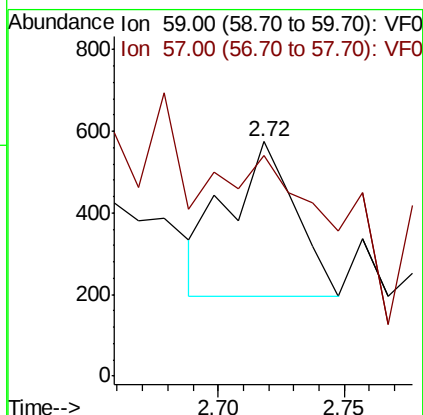
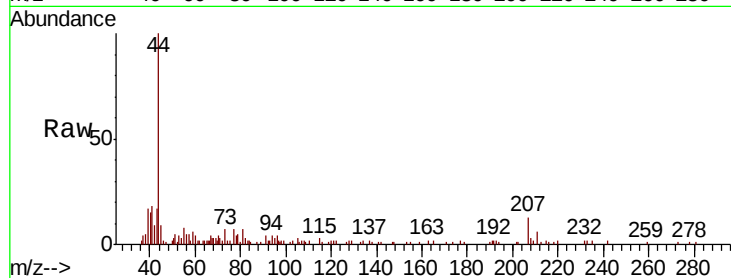




#11
Tert butyl alcohol
Concen: 3.673 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

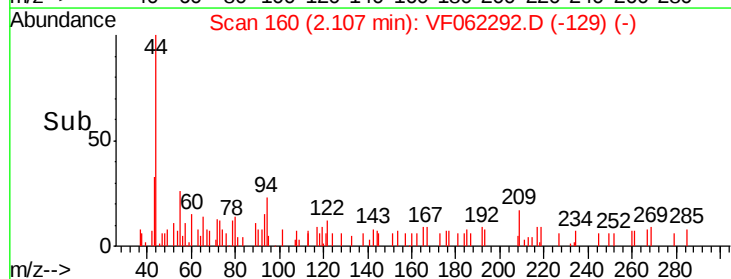
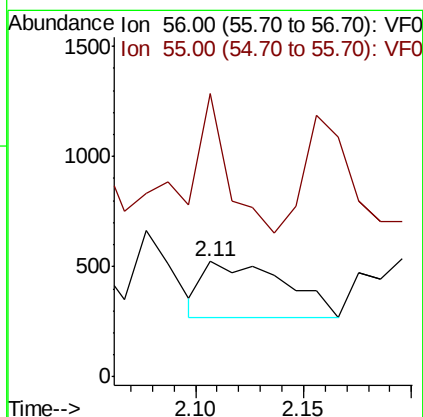
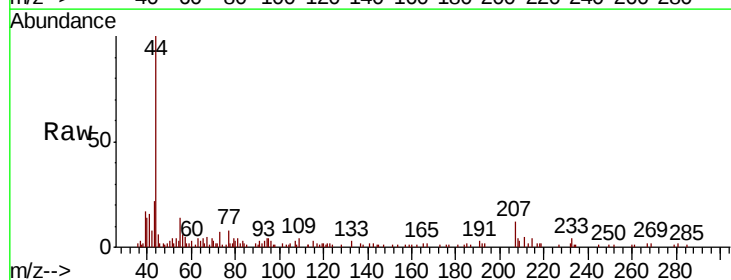
Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

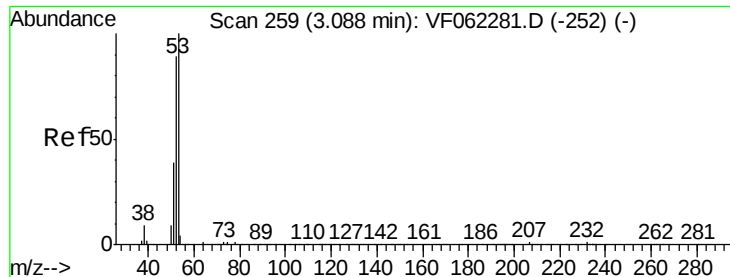
Tot Ion: 59 Resp: 700
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#13
Acrolein
Concen: 11.805 ug/l
RT: 2.11 min Scan# 160
Delta R.T. 0.00 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Tgt Ion: 56 Resp: 657
Ion Ratio Lower Upper
56 100
55 114.0 62.3 93.5#





#15

Acrylonitrile

Concen: 1.965 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.04 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

SU-03-042419-ARE

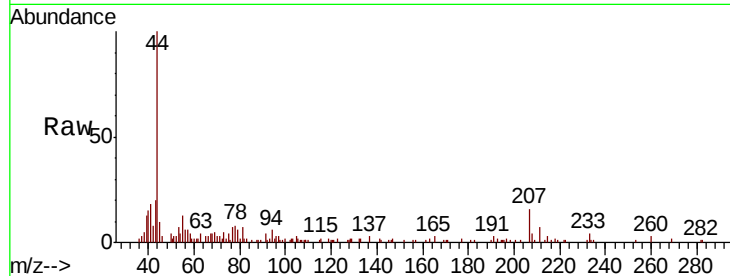
Tot Ion: 53 Resp: 1037

Ion Ratio Lower Upper

53 100

52 36.4 70.6 105.8#

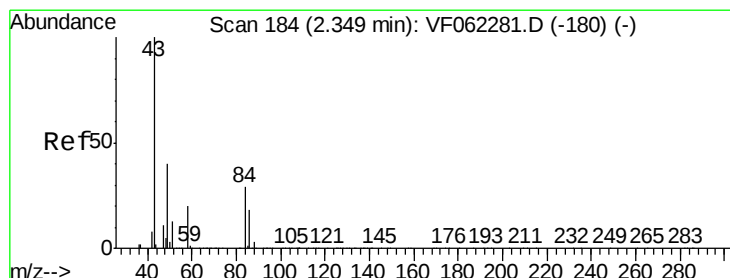
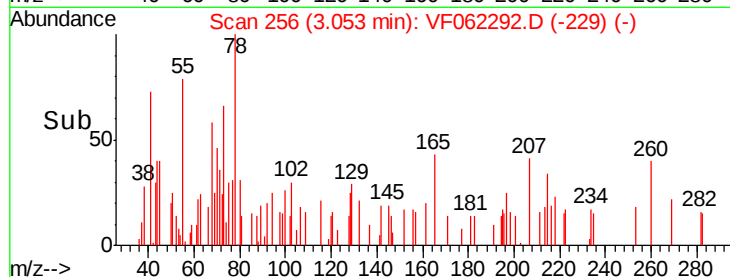
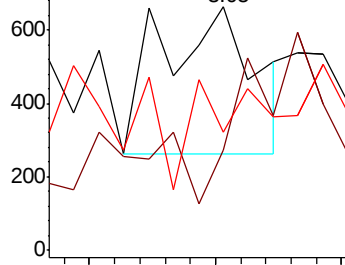
51 0.0 32.6 48.8#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 42.830 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062292.D

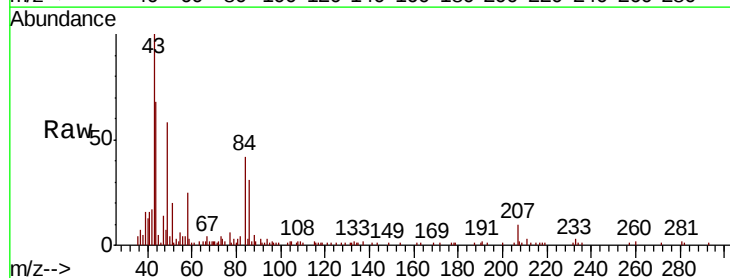
Acq: 25 Apr 2019 15:18

Tgt Ion: 43 Resp: 30213

Ion Ratio Lower Upper

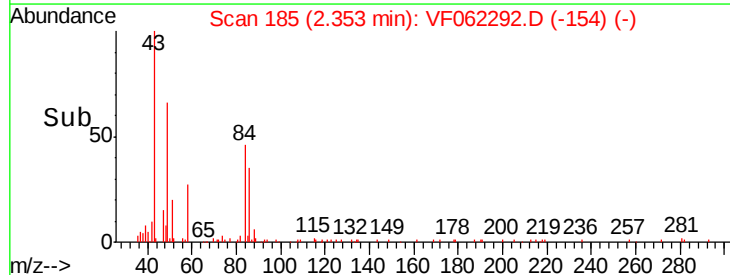
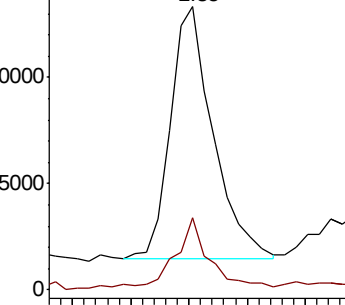
43 100

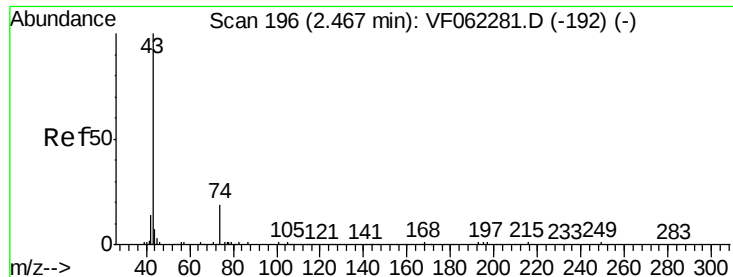
58 27.3 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

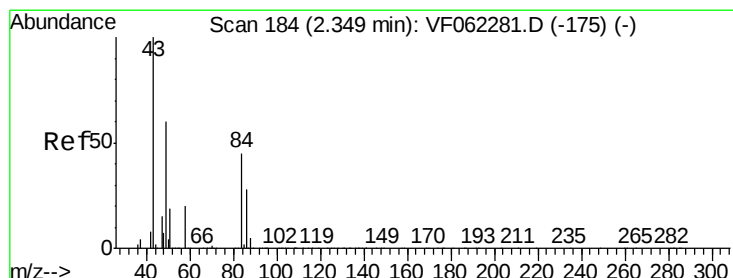
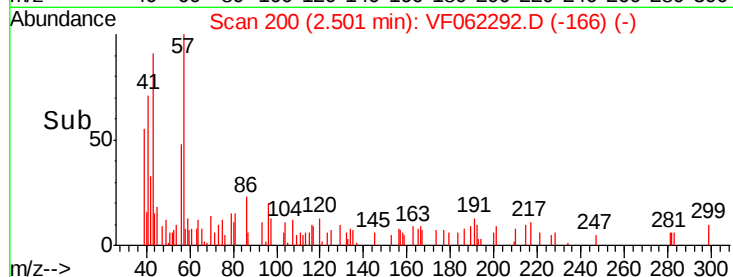
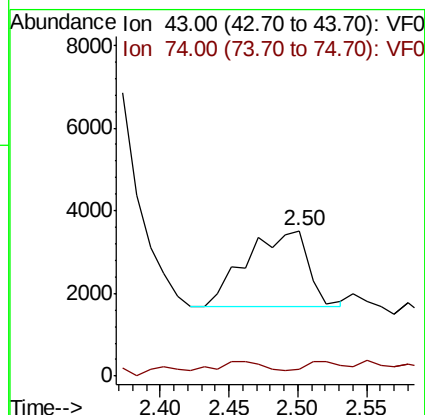
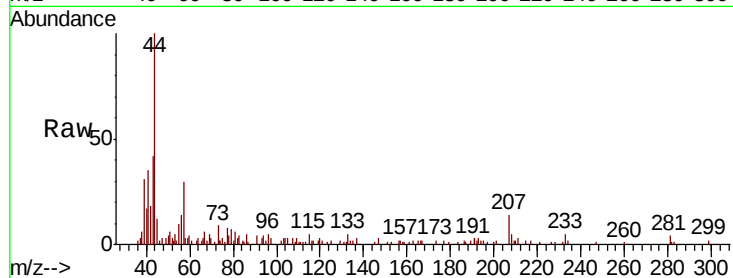




#18
Methyl Acetate
Concen: 1.501 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

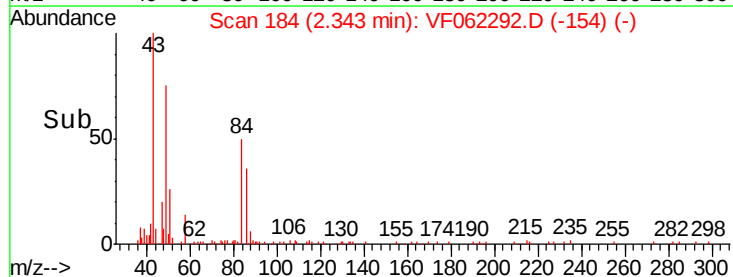
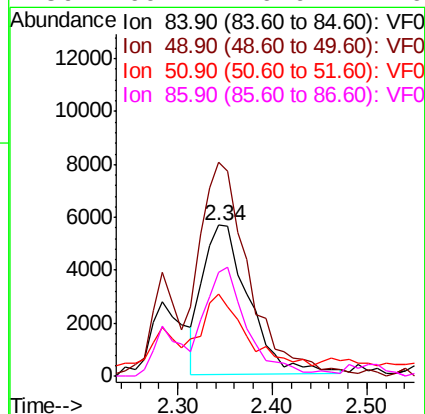
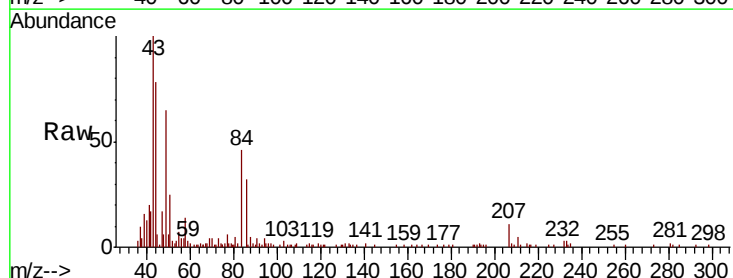
Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

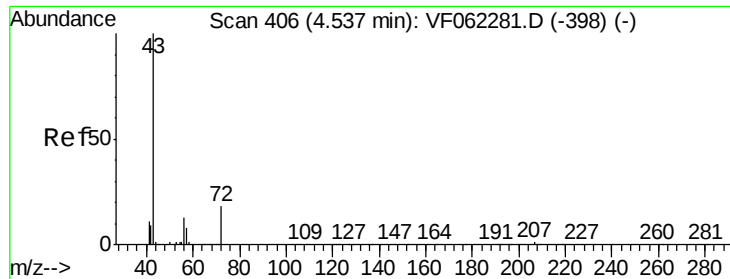
Tot Ion: 43 Resp: 5778
Ion Ratio Lower Upper
43 100
74 9.4 14.4 21.6#



#20
Methylene Chloride
Concen: 1.230 ug/l
RT: 2.34 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Tgt Ion: 84 Resp: 19204
Ion Ratio Lower Upper
84 100
49 143.2 112.1 168.1
51 45.9 35.9 53.9
86 69.4 49.9 74.9





#25

2-Butanone

Concen: 7.949 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

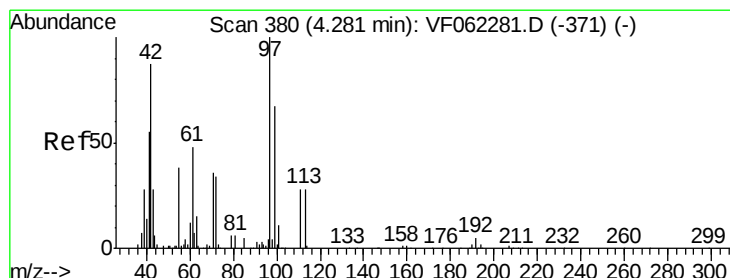
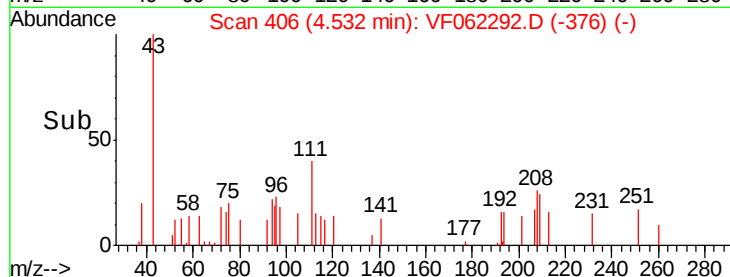
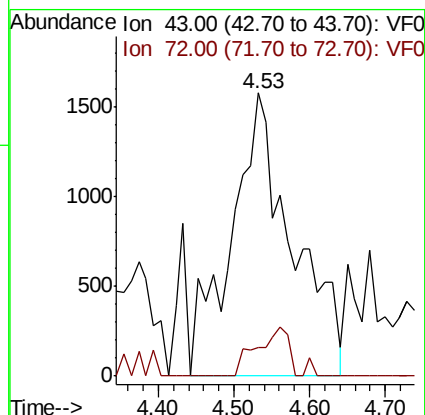
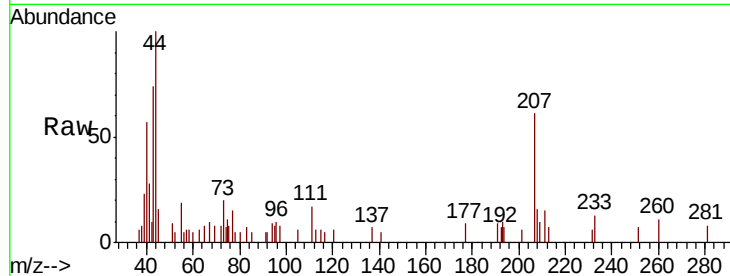
SU-03-042419-ARE

Tot Ion: 43 Resp: 8891

Ion Ratio Lower Upper

43 100

72 10.2 15.8 23.6#



#29

Tetrahydrofuran

Concen: 1.146 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.02 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

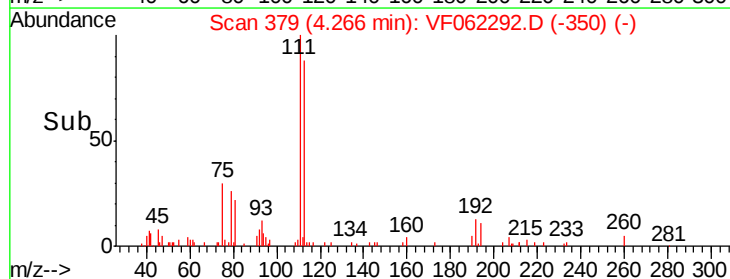
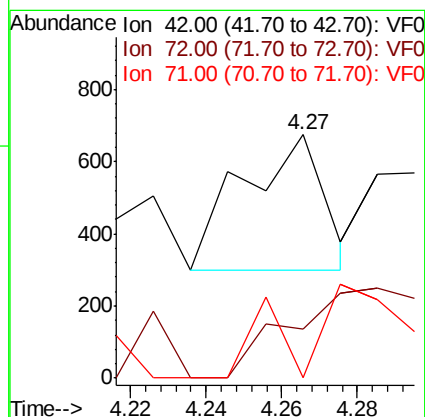
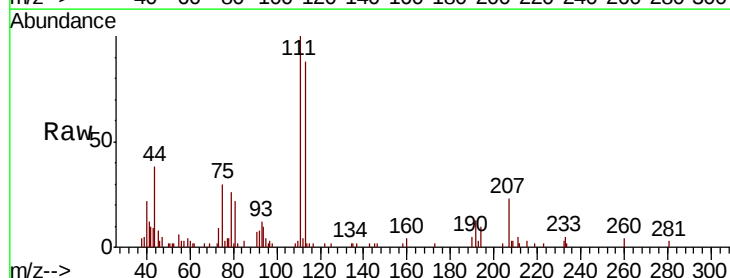
Tgt Ion: 42 Resp: 563

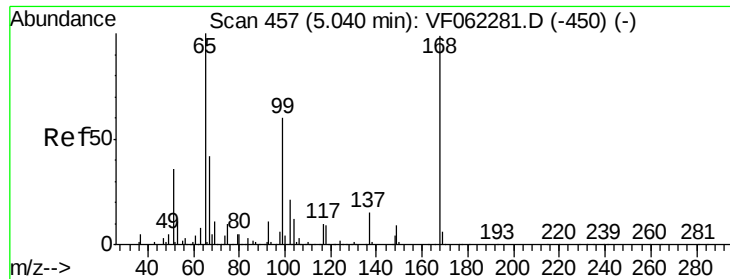
Ion Ratio Lower Upper

42 100

72 147.8 29.3 43.9#

71 137.7 31.2 46.8#





#33

1,2-Dichloroethane-d4

Concen: 63.026 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

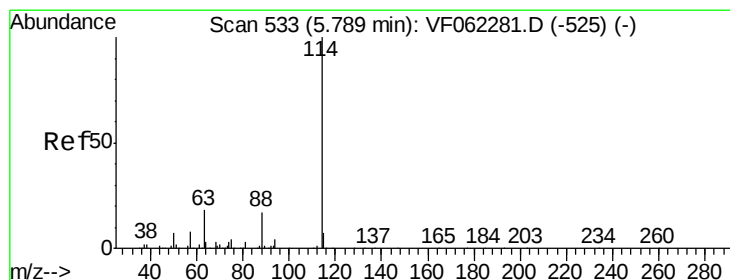
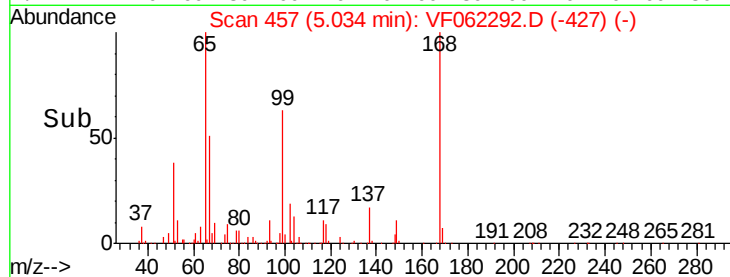
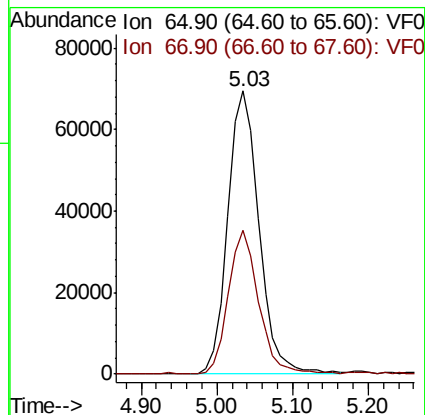
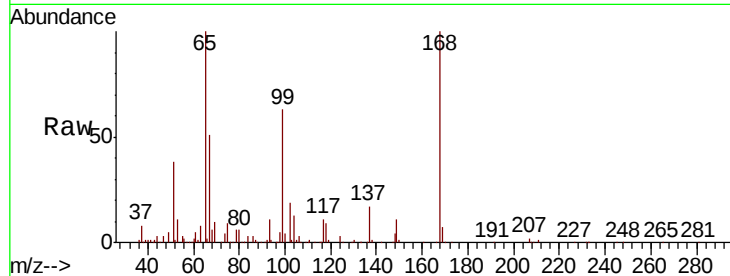
Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

Tot Ion: 65 Resp: 198572

Ion Ratio Lower Upper

65 100

67 49.4 0.0 98.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. -0.02 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

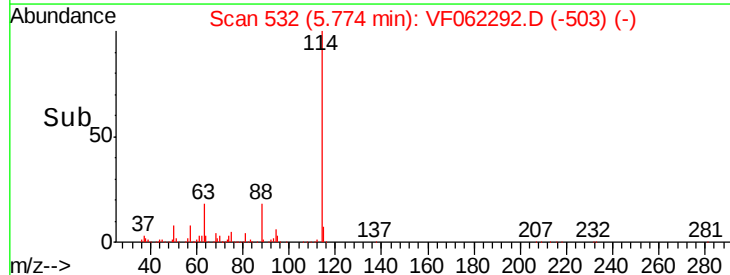
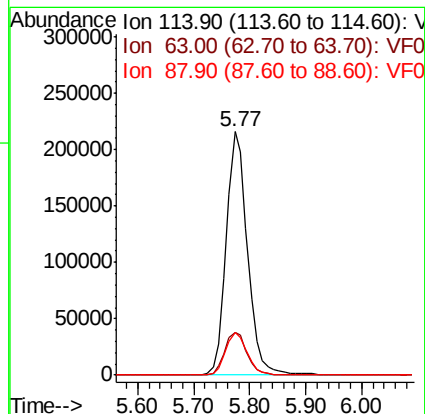
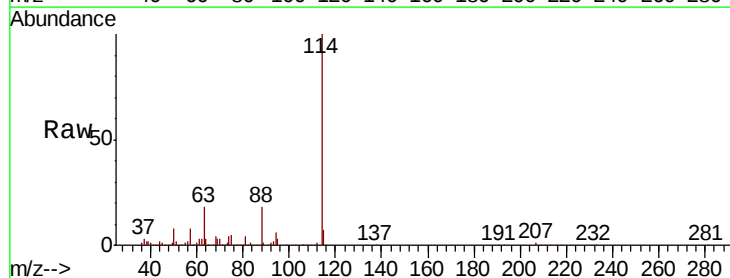
Tgt Ion: 114 Resp: 570350

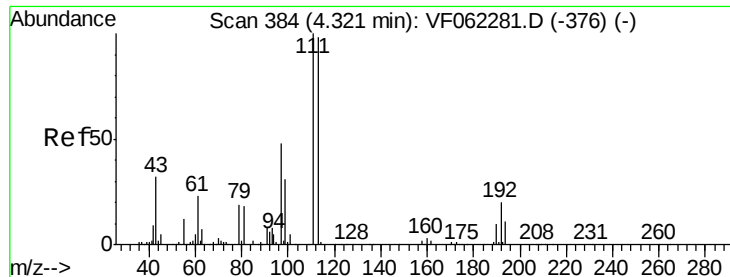
Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.6

88 17.6 0.0 34.6

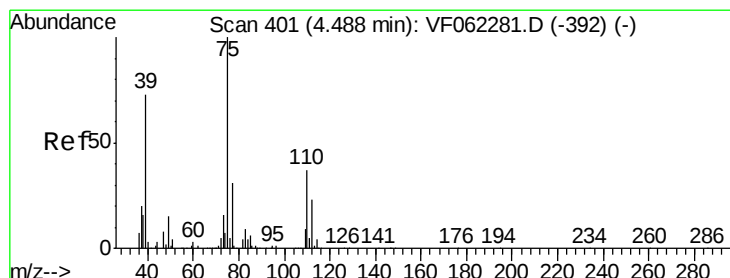
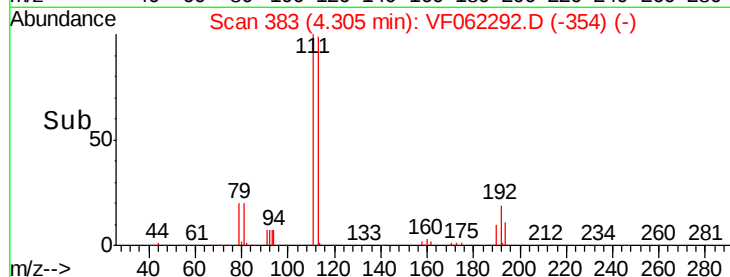
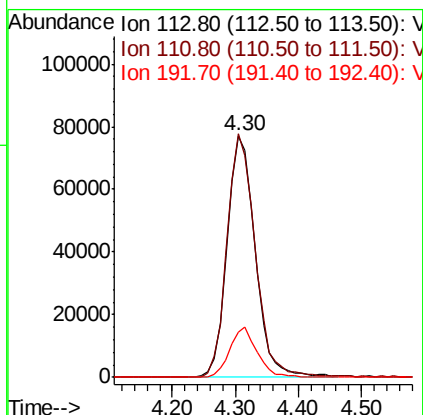
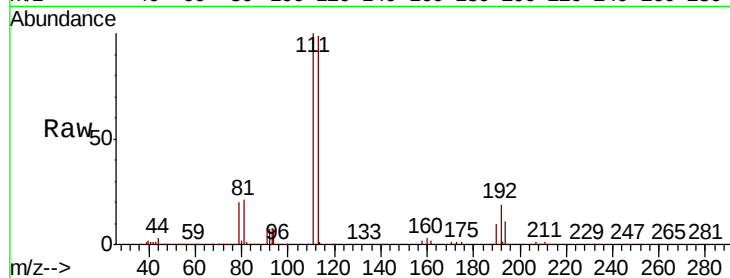




#35
 Dibromofluoromethane
 Concen: 56.243 ug/l
 RT: 4.30 min Scan# 383
 Delta R.T. -0.02 min
 Lab File: VF062292.D
 Acq: 25 Apr 2019 15:18

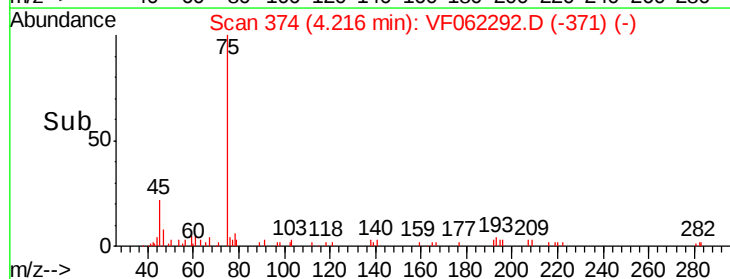
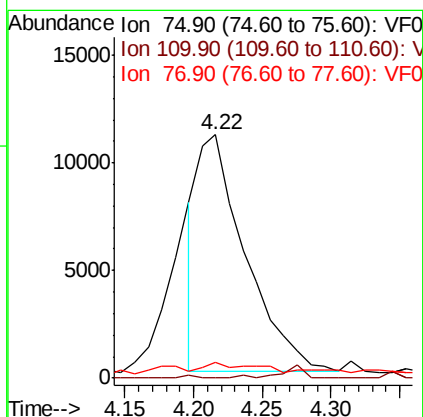
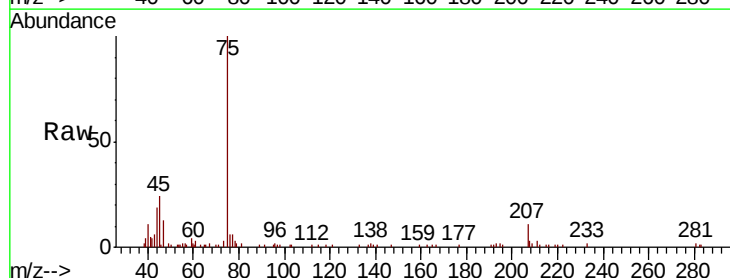
Instrument :
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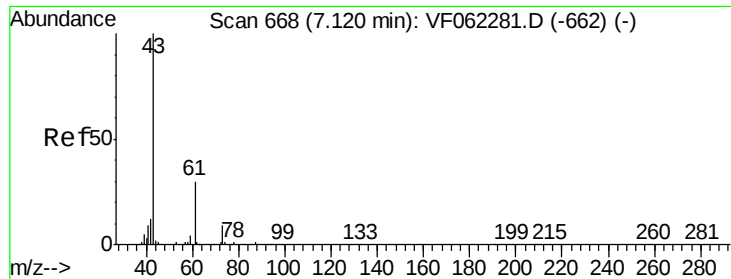
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.4	122.2
192	20.0	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.984 ug/l
 RT: 4.22 min Scan# 374
 Delta R.T. -0.27 min
 Lab File: VF062292.D
 Acq: 25 Apr 2019 15:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	3.1	24.6	36.8#





#43

Isopropyl Acetate

Concen: 2.175 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.00 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

SU-03-042419-ARE

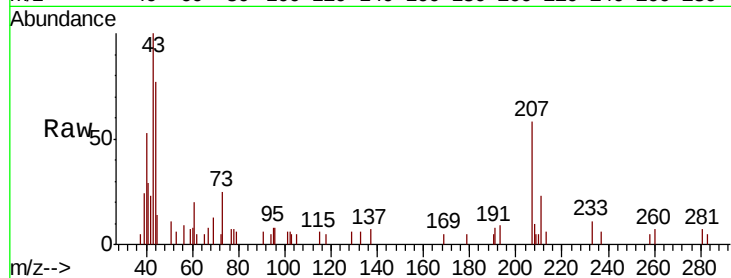
Tot Ion: 43 Resp: 5392

Ion Ratio Lower Upper

43 100

61 27.0 23.8 35.6

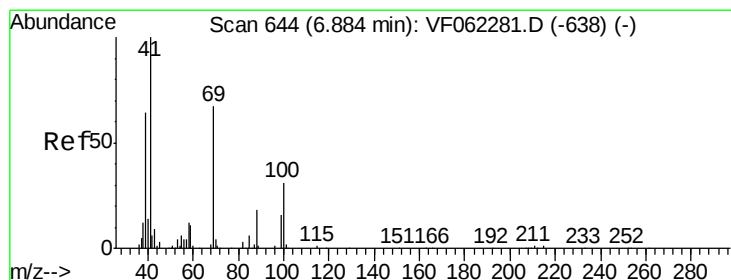
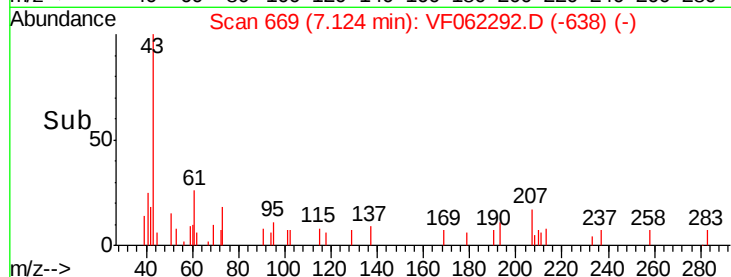
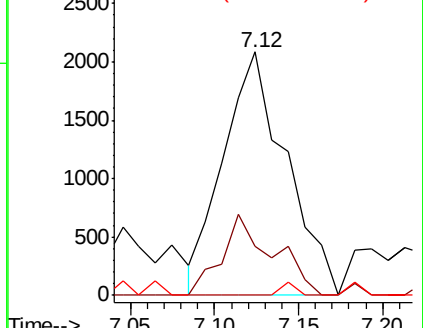
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#49

1,4-Dioxane

Concen: 11.673 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

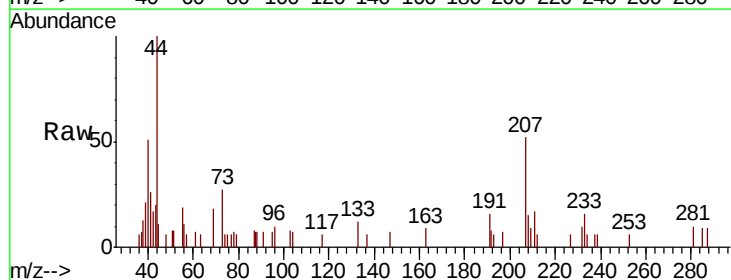
Tgt Ion: 88 Resp: 218

Ion Ratio Lower Upper

88 100

43 0.0 34.2 51.4#

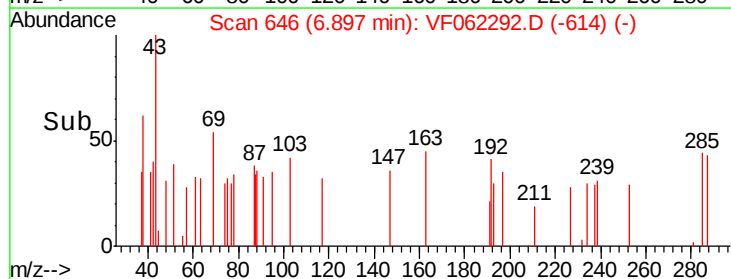
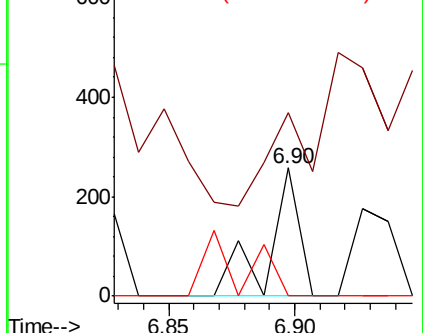
58 0.0 50.7 76.1#

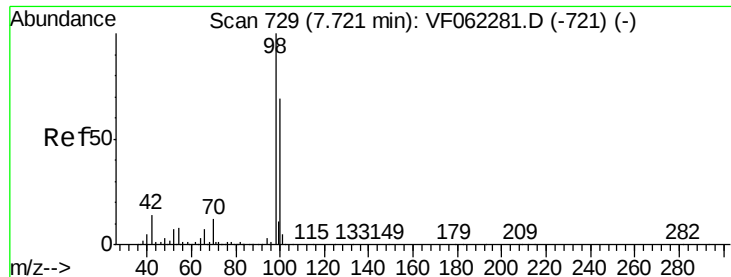


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 43.750 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

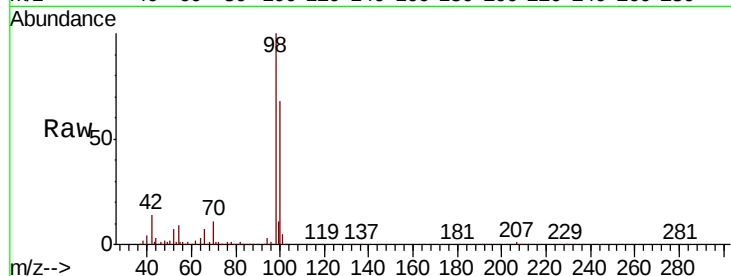
SU-03-042419-ARE

Tot Ion: 98 Resp: 451913

Ion Ratio Lower Upper

98 100

100 67.7 54.4 81.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.72

200000

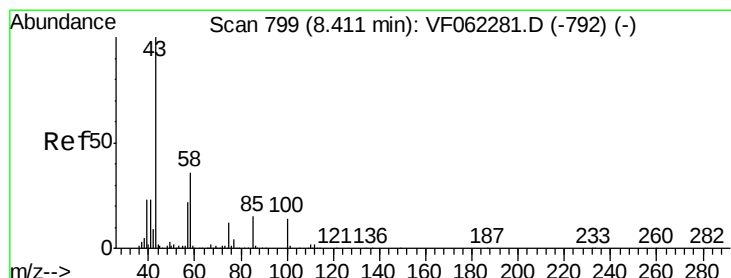
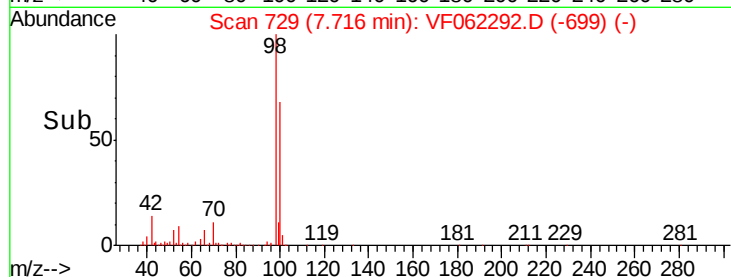
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 9.642 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF062292.D

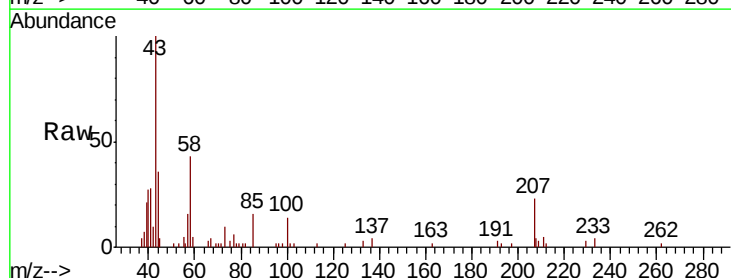
Acq: 25 Apr 2019 15:18

Tgt Ion: 43 Resp: 16818

Ion Ratio Lower Upper

43 100

58 32.6 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

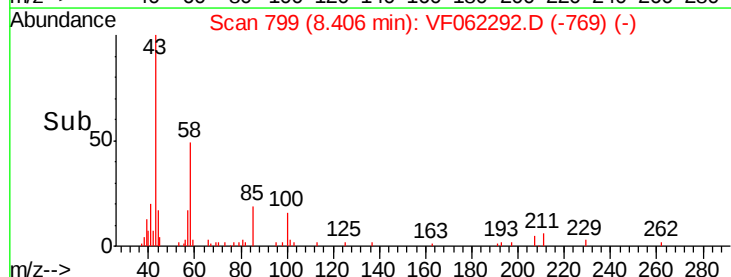
6000

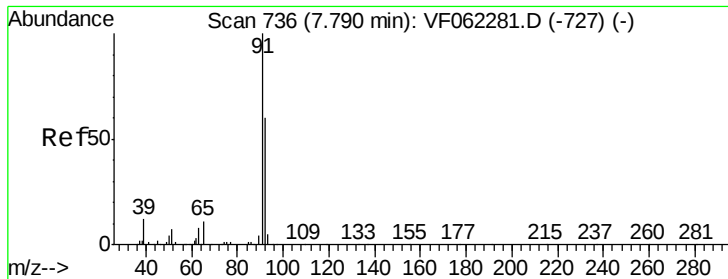
4000

2000

0

Time-->





#52

Toluene

Concen: 8.833 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

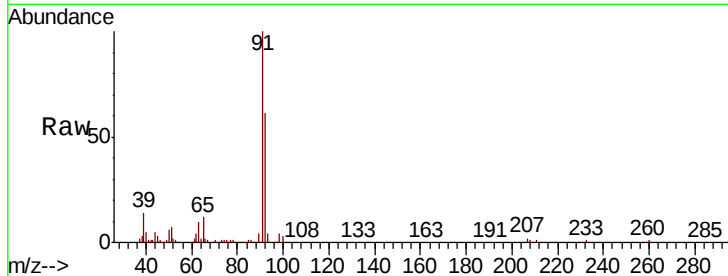
SU-03-042419-ARE

Tot Ion: 92 Resp: 64795

Ion Ratio Lower Upper

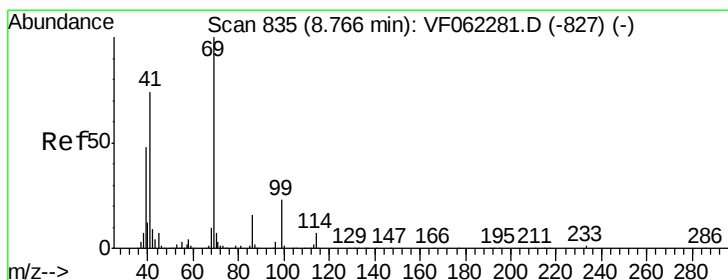
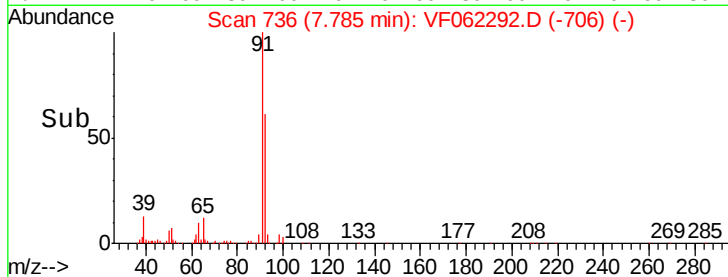
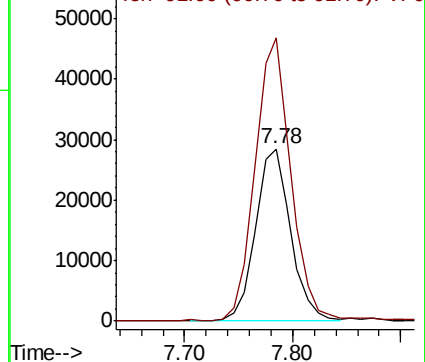
92 100

91 167.8 132.5 198.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#56

Ethyl methacrylate

Concen: 2.493 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

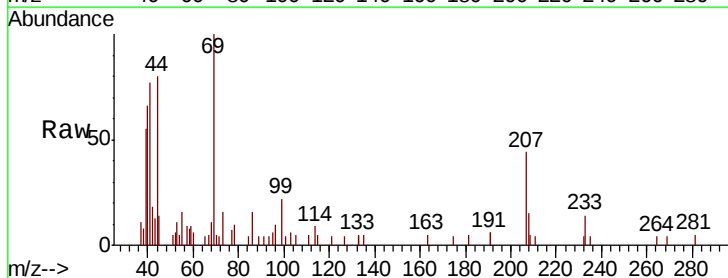
Tgt Ion: 69 Resp: 5707

Ion Ratio Lower Upper

69 100

41 77.2 61.5 92.3

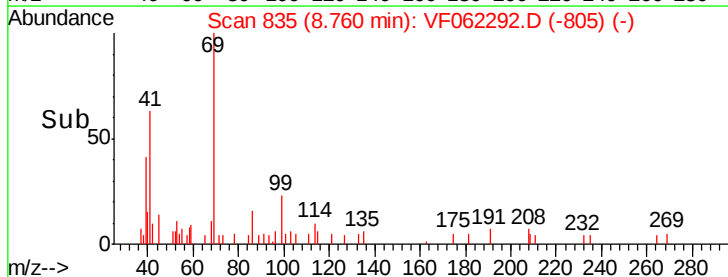
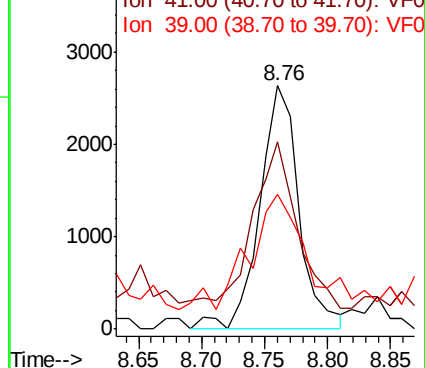
39 72.7 37.9 56.9#

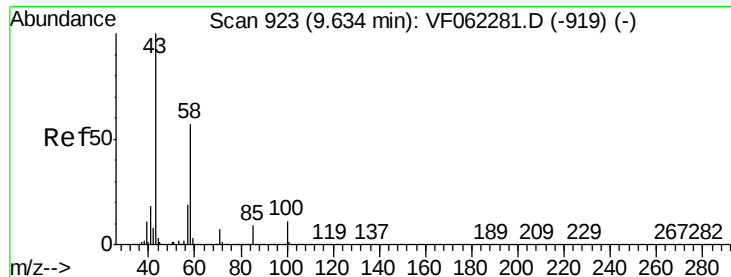


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

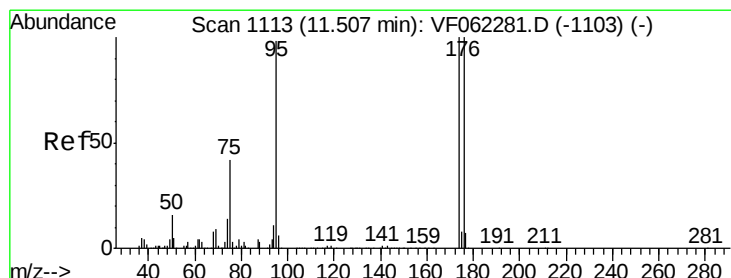
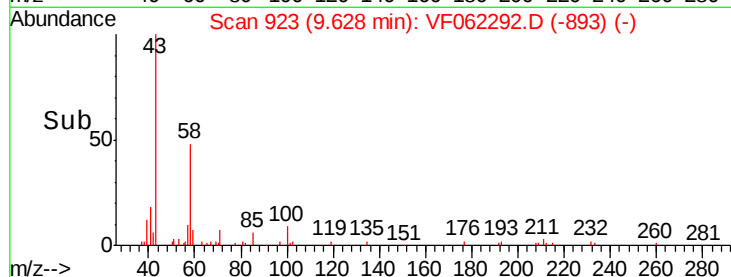
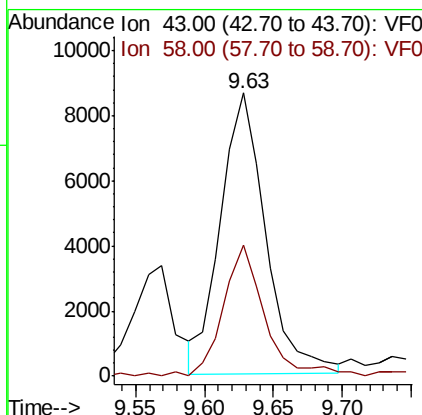
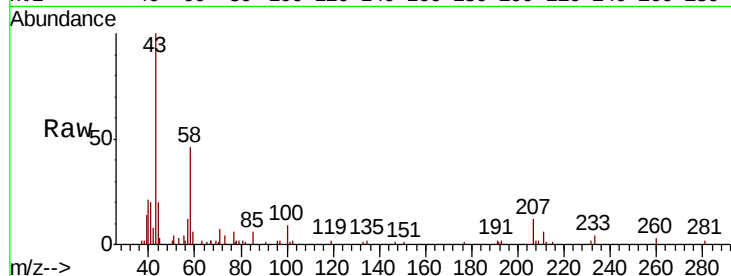




#59
2-Hexanone
Concen: 4.483 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

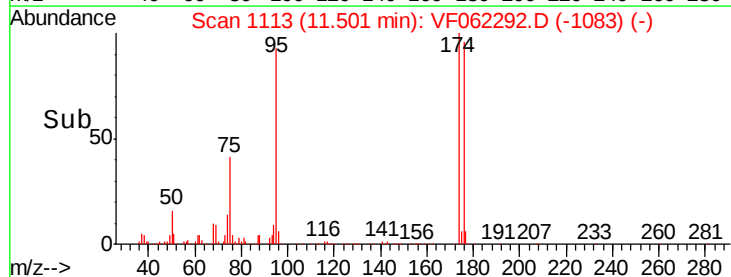
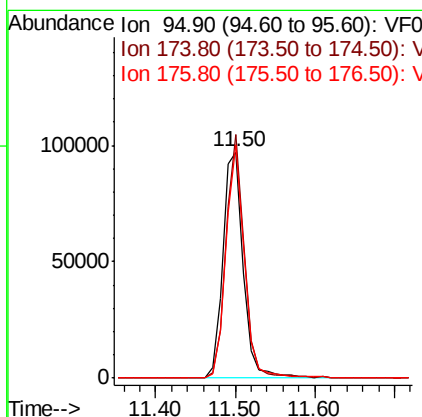
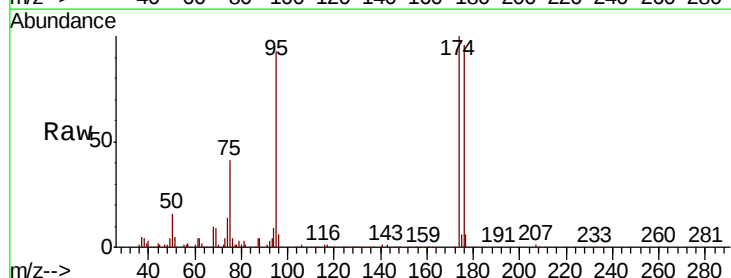
Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

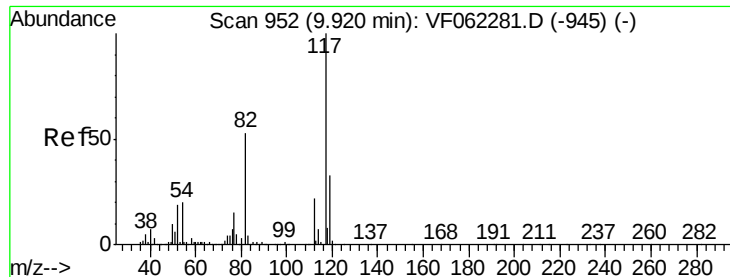
Tot Ion: 43 Resp: 19612
Ion Ratio Lower Upper
43 100
58 42.8 24.9 74.7



#62
4-Bromofluorobenzene
Concen: 41.329 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Tgt Ion: 95 Resp: 175963
Ion Ratio Lower Upper
95 100
174 96.9 0.0 185.2
176 93.9 0.0 184.8

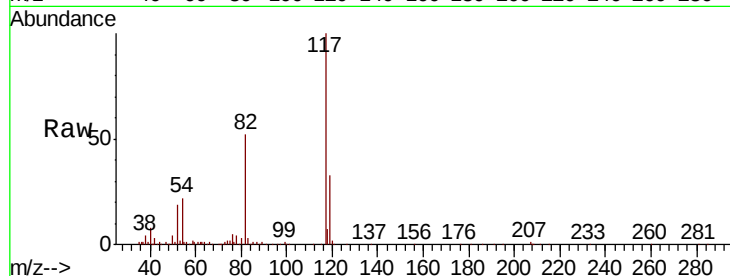




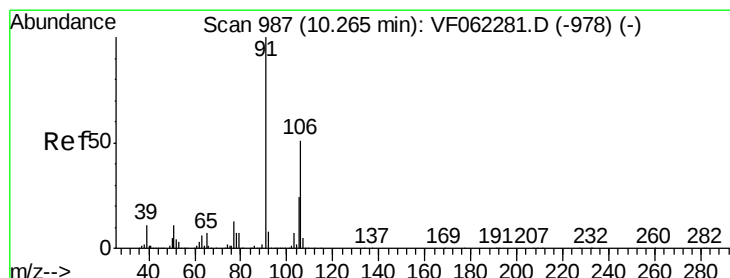
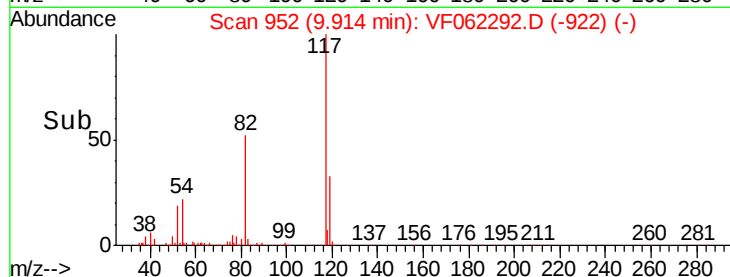
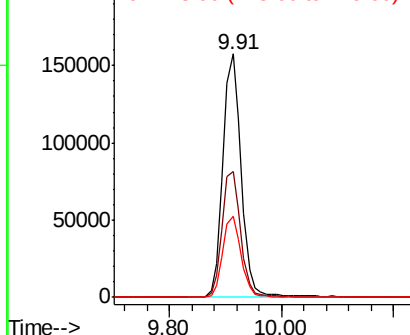
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.6	64.0
119	33.3	26.1	39.1

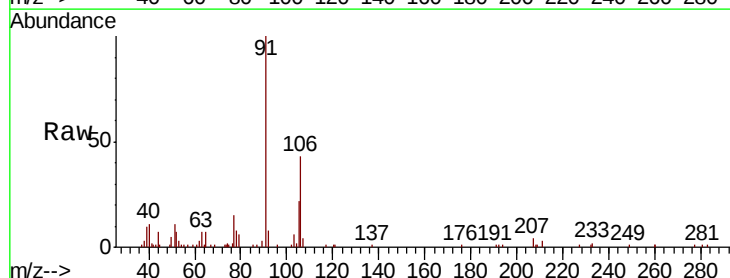


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

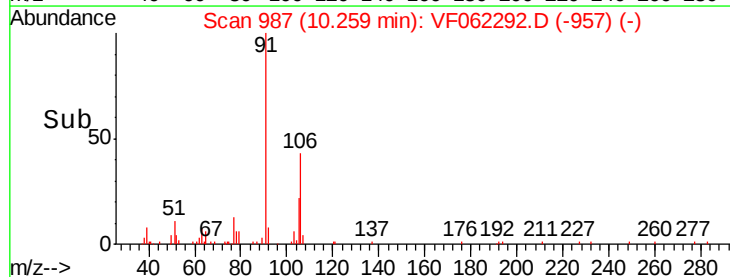
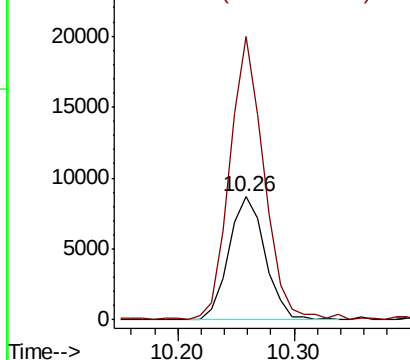


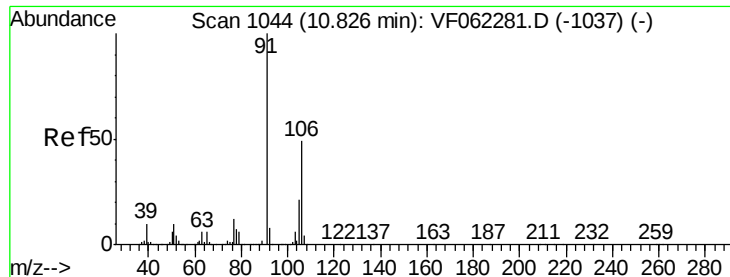
#68
m/p-Xylenes
Concen: 4.376 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Tgt Ion	Ratio	Lower	Upper
106	100		
91	218.7	158.3	237.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

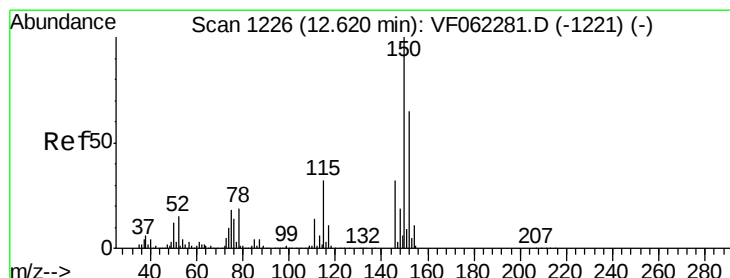
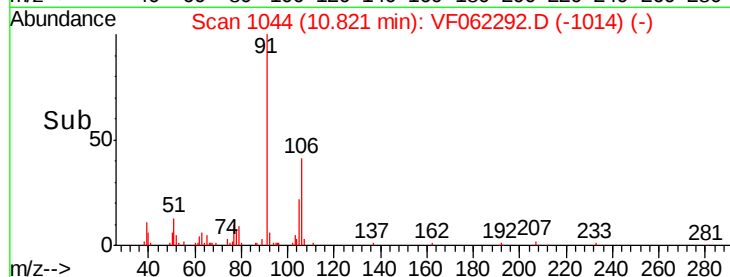
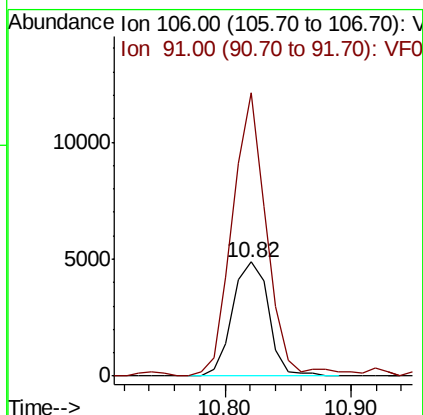
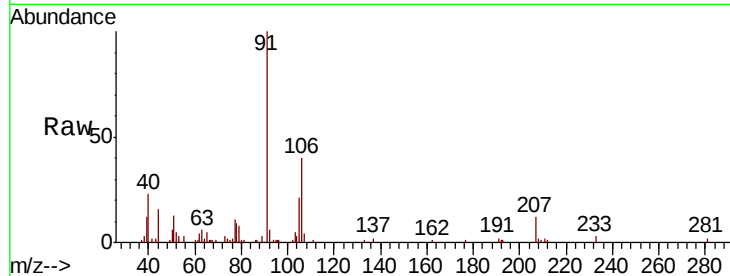




#69
o-Xylene
Concen: 2.013 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

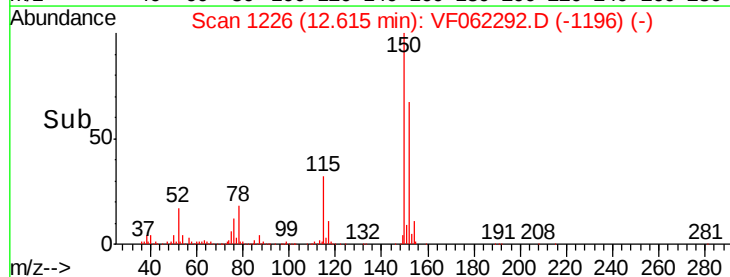
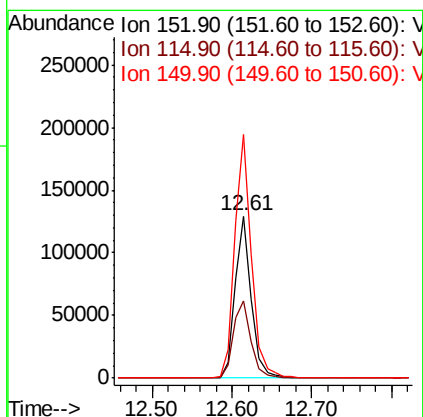
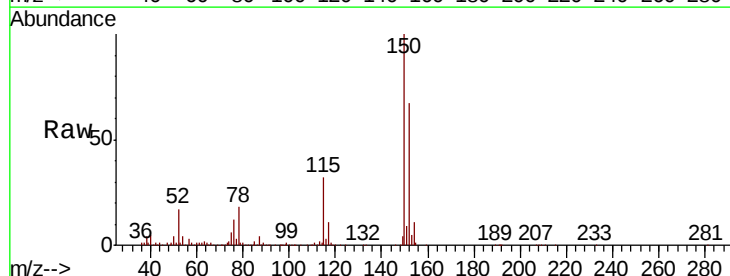
Instrument :
MSVOA_F
ClientSampleId :
SU-03-042419-ARE

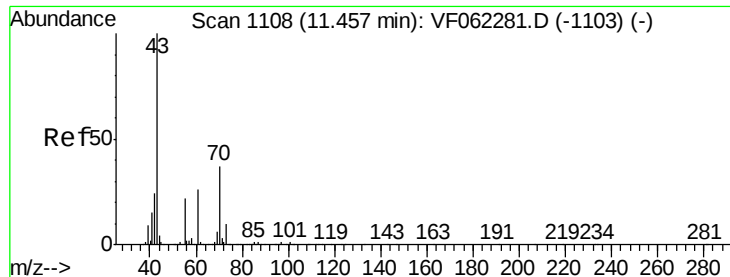
Tot Ion:106 Resp: 9624
Ion Ratio Lower Upper
106 100
91 237.0 110.0 330.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062292.D
Acq: 25 Apr 2019 15:18

Tgt Ion:152 Resp: 184710
Ion Ratio Lower Upper
152 100
115 52.2 25.6 76.8
150 155.1 0.0 330.6





#74

N-amvl acetate

Concen: 3.648 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

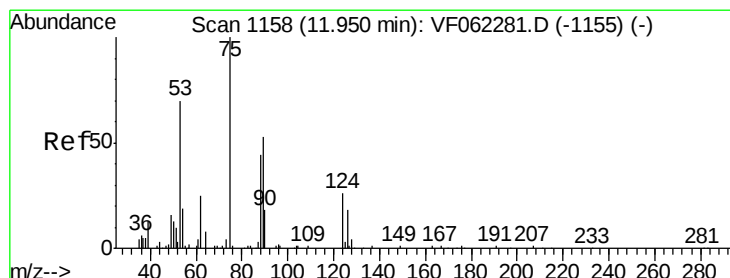
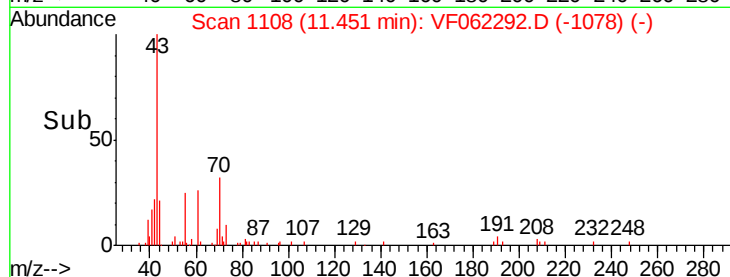
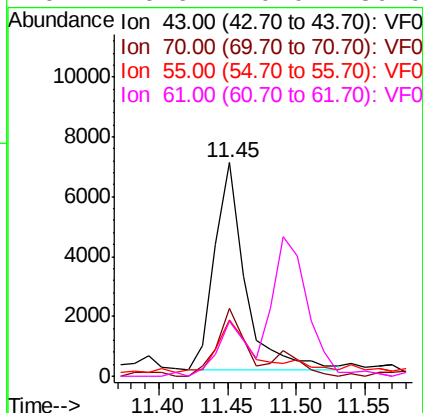
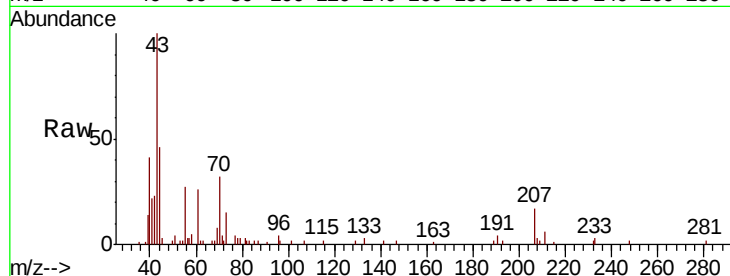
Instrument :

MSVOA_F

ClientSampleId :

SU-03-042419-ARE

Tot Ion:	43	Resp:	10637
Ion	Ratio	Lower	Upper
43	100		
70	30.9	27.8	41.8
55	32.1	16.6	24.8#
61	26.6	20.0	30.0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.306 ug/l

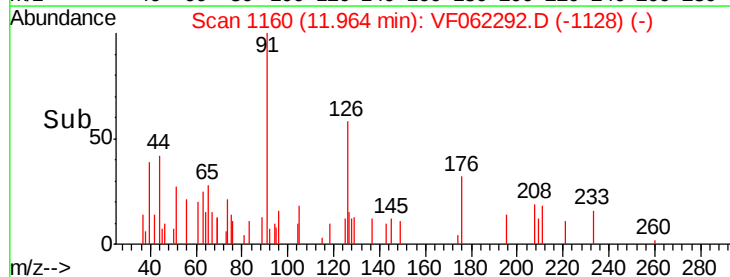
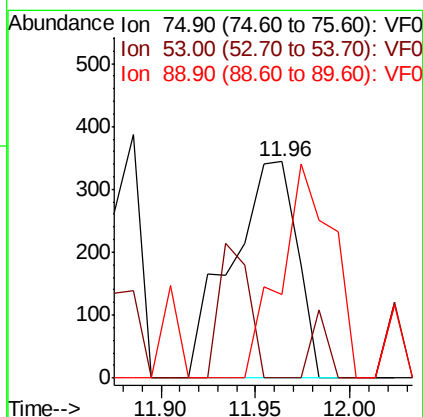
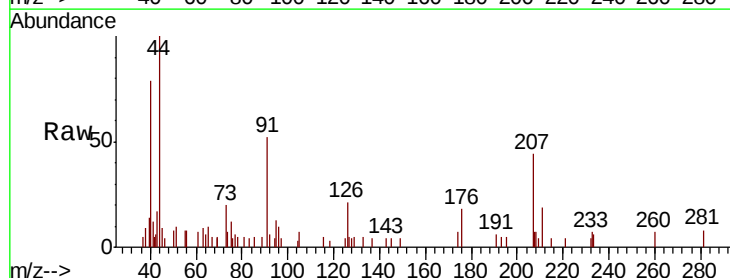
RT: 11.96 min Scan# 1160

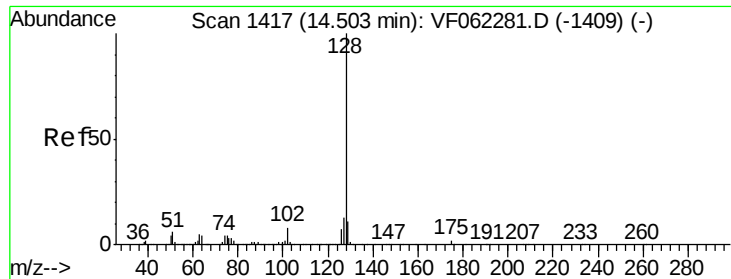
Delta R.T. 0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Tgt Ion:	75	Resp:	833
Ion	Ratio	Lower	Upper
75	100		
53	7.7	67.1	100.7#
89	78.2	0.0	0.0#





#95

Naphthalene

Concen: 7.153 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062292.D

Acq: 25 Apr 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

SU-03-042419-ARE

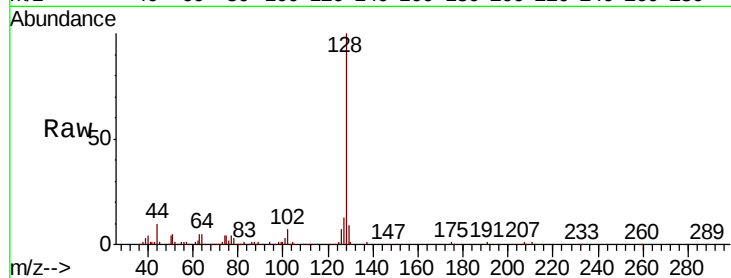
Tot Ion:128 Resp: 52306

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 10.8 8.9 13.3



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

