

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062301.D
 Acq On : 25 Apr 2019 19:26
 Operator : FY/SY
 Sample : K2198-07
 Misc : 6.10a/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-01-042519

Quant Time: Apr 26 01:11:33 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	327562	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	485104	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	313331	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	158212	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	176232	66.42	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	132.84%	
35) Dibromofluoromethane	4.30	113	211194	58.72	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	117.44%	
50) Toluene-d8	7.70	98	387543	44.11	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	88.22%	
62) 4-Bromofluorobenzene	11.49	95	158322	43.72	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.44%	

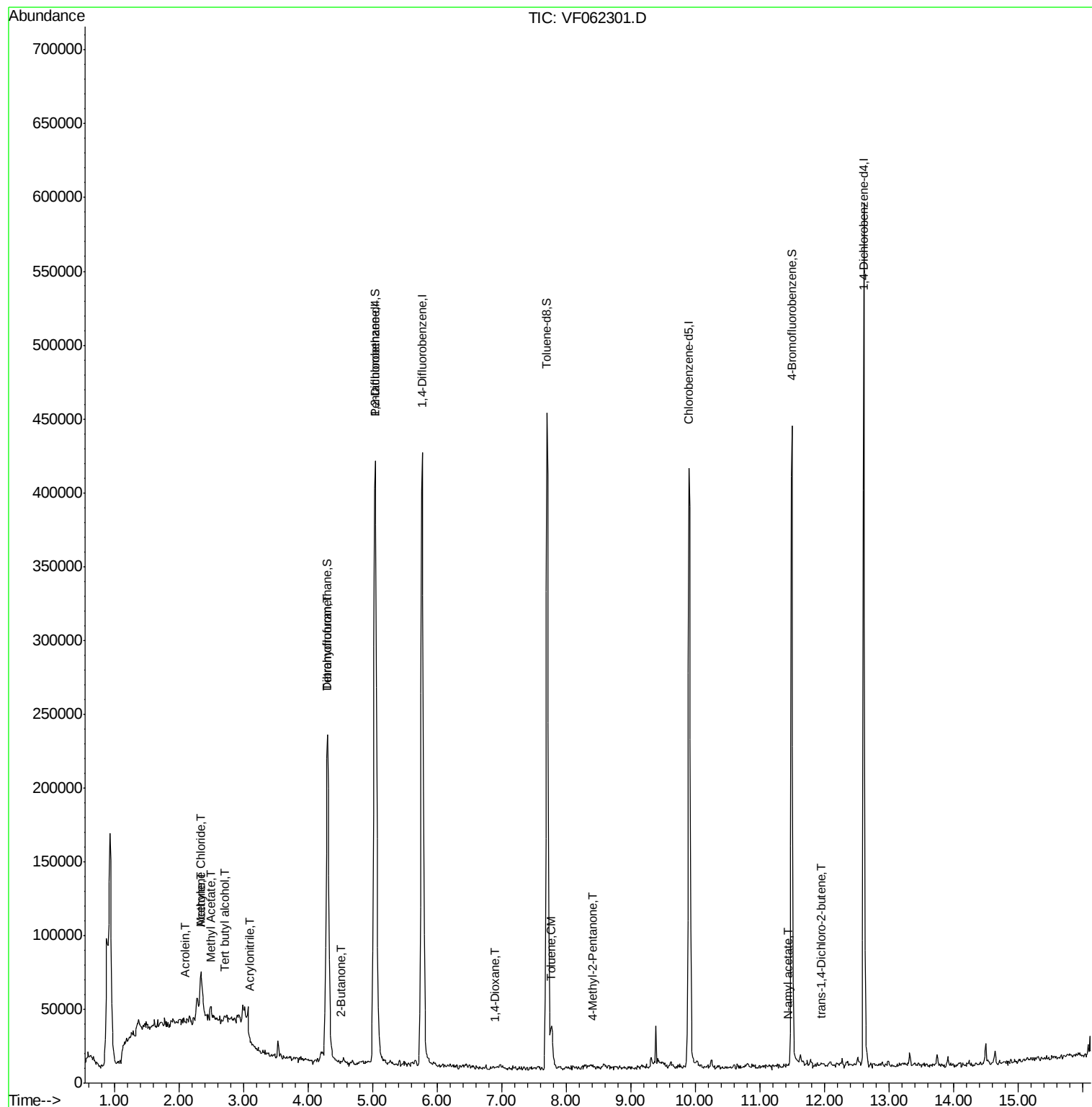
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.70	59	568	3.539	ug/l #	71
13) Acrolein	2.10	56	763	13.153	ug/l #	69
15) Acrylonitrile	3.10	53	1047	2.355	ug/l #	35
16) Acetone	2.35	43	20190	33.986	ug/l #	88
18) Methyl Acetate	2.50	43	4888	1.523	ug/l #	84
20) Methylene Chloride	2.34	84	16515	1.381	ug/l	96
25) 2-Butanone	4.52	43	1496	1.588	ug/l #	57
29) Tetrahydrofuran	4.29	42	1180	2.851	ug/l #	50
49) 1,4-Dioxane	6.89	88	194	12.213	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	1742	1.174	ug/l #	74
52) Toluene	7.77	92	13600	2.180	ug/l	95
59) 2-Hexanone	9.62	43	3216	Below Cal		98
74) N-amyl acetate	11.44	43	2659	1.065	ug/l #	53
81) trans-1,4-Dichloro-2-buten	11.96	75	559	1.023	ug/l #	65

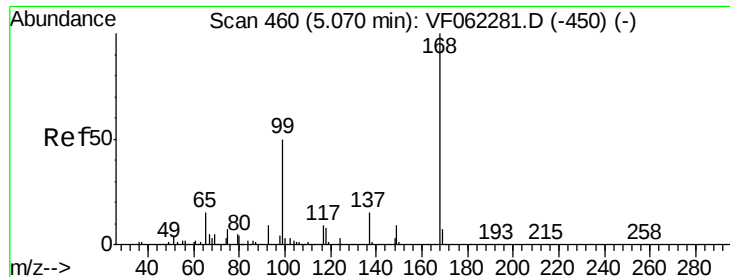
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 458

Delta R.T. -0.02 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

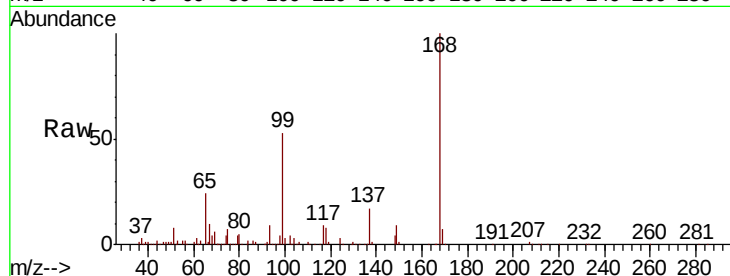
OK-01-042519

Tot Ion:168 Resp: 327562

Ion Ratio Lower Upper

168 100

99 53.0 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

120000

100000

80000

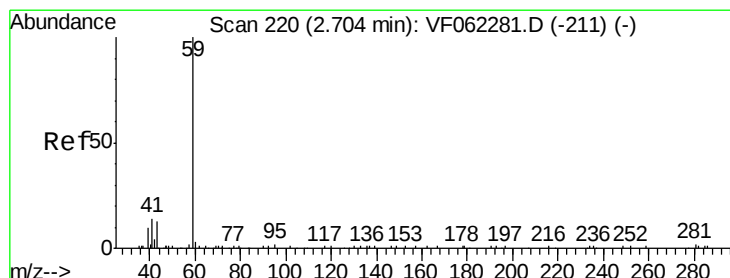
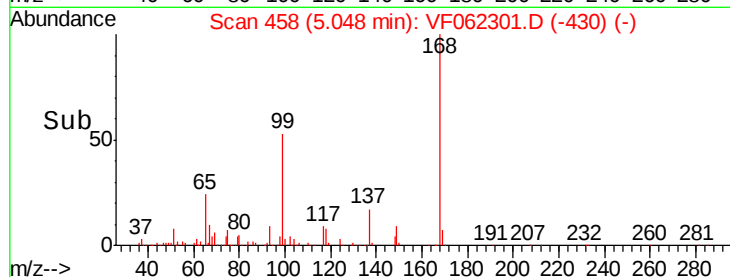
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.539 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062301.D

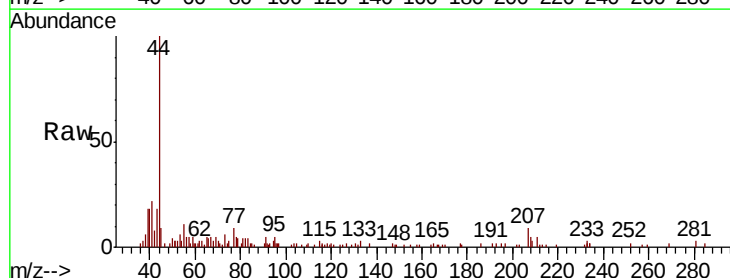
Acq: 25 Apr 2019 19:26

Tgt Ion: 59 Resp: 568

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

800

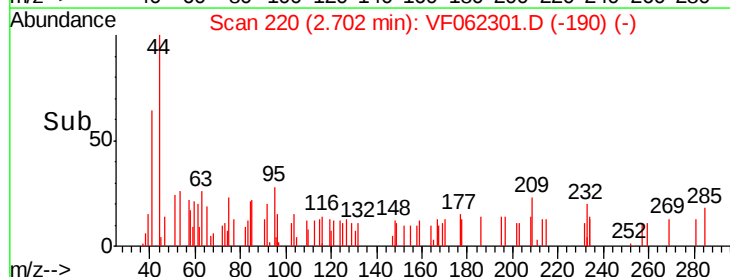
600

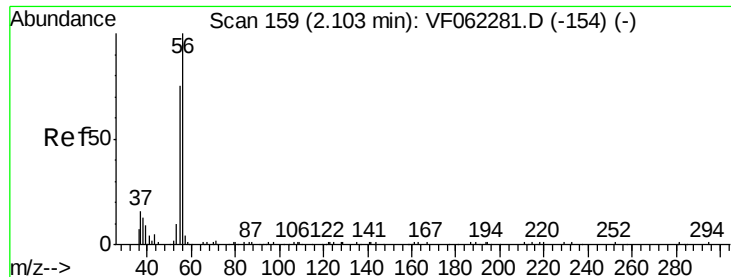
400

200

0

Time-->





#13

Acrolein

Concen: 13.153 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.00 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

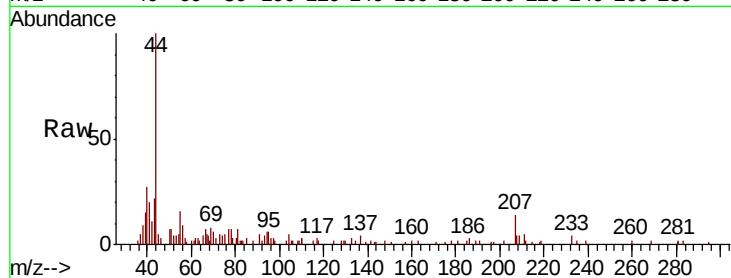
OK-01-042519

Tot Ion: 56 Resp: 763

Ion Ratio Lower Upper

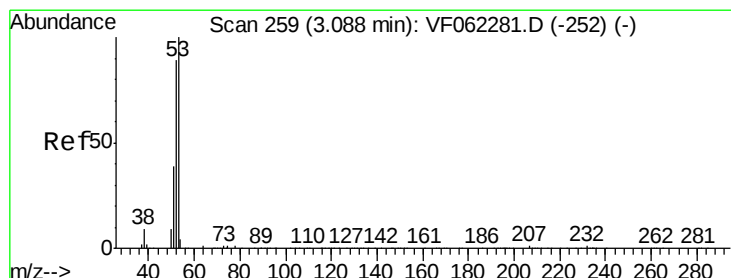
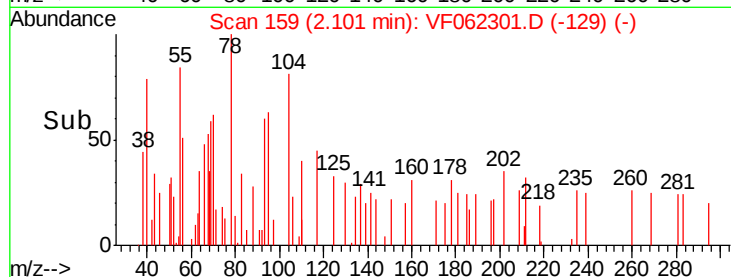
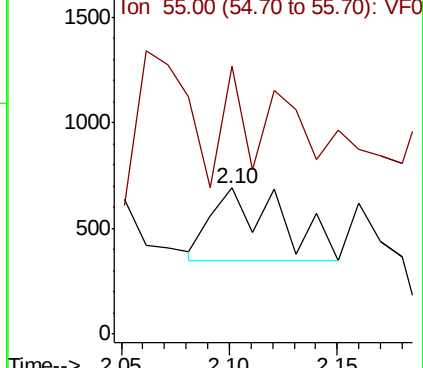
56 100

55 51.2 62.3 93.5#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 2.355 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

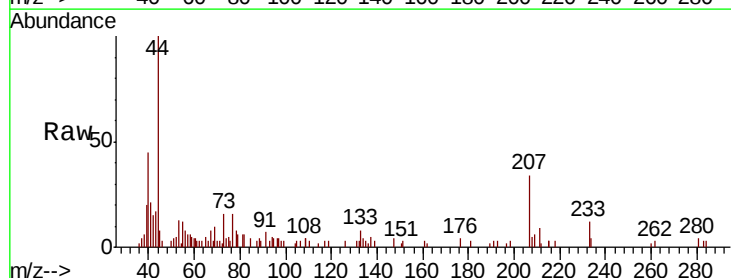
Tgt Ion: 53 Resp: 1047

Ion Ratio Lower Upper

53 100

52 27.7 70.6 105.8#

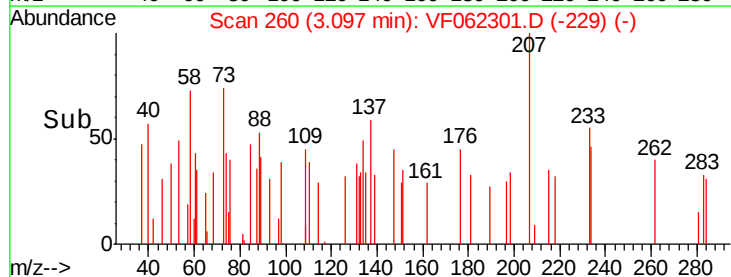
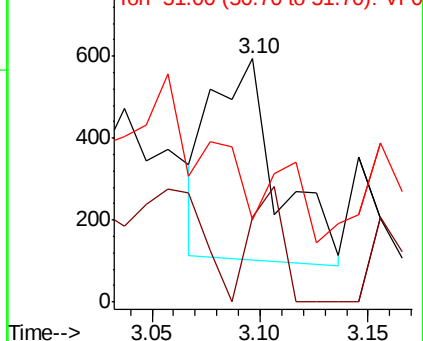
51 0.0 32.6 48.8#

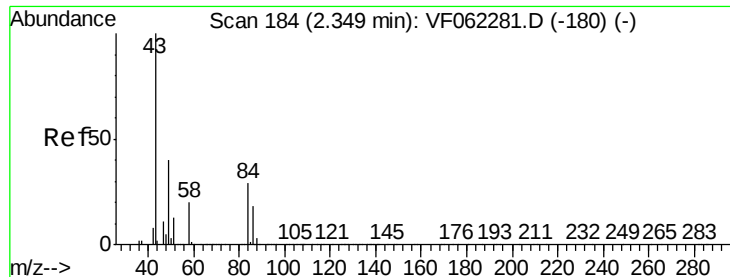


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 33.986 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

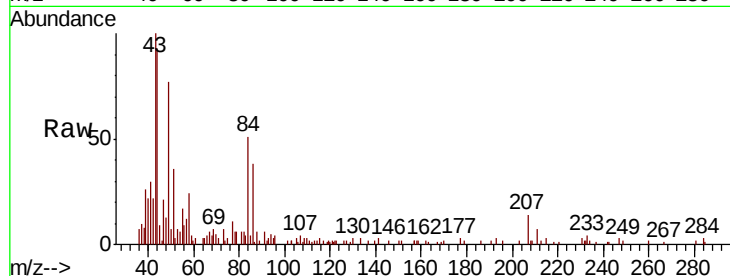
OK-01-042519

Tot Ion: 43 Resp: 20190

Ion Ratio Lower Upper

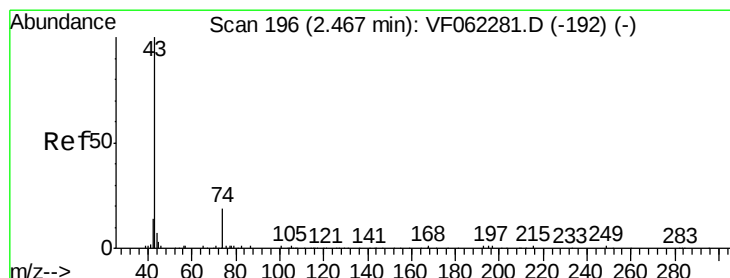
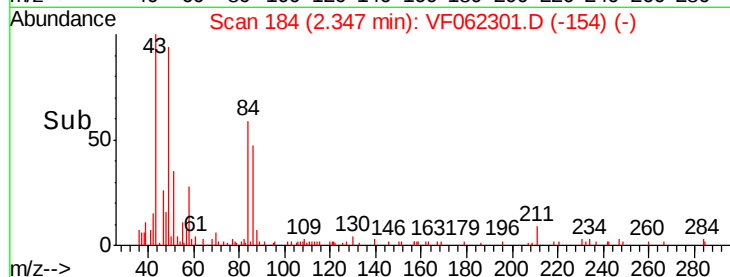
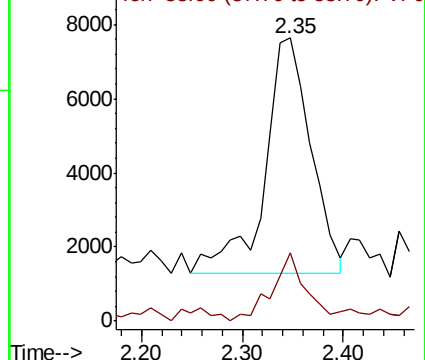
43 100

58 26.0 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: 1.523 ug/l

RT: 2.50 min Scan# 199

Delta R.T. 0.03 min

Lab File: VF062301.D

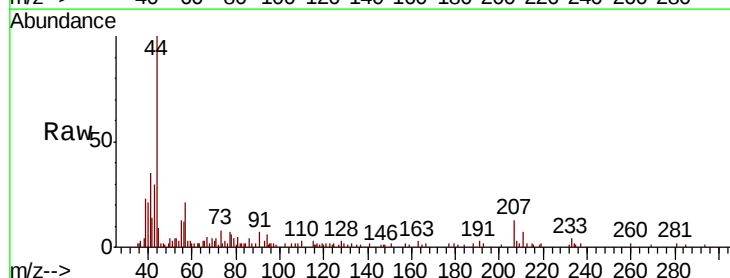
Acq: 25 Apr 2019 19:26

Tgt Ion: 43 Resp: 4888

Ion Ratio Lower Upper

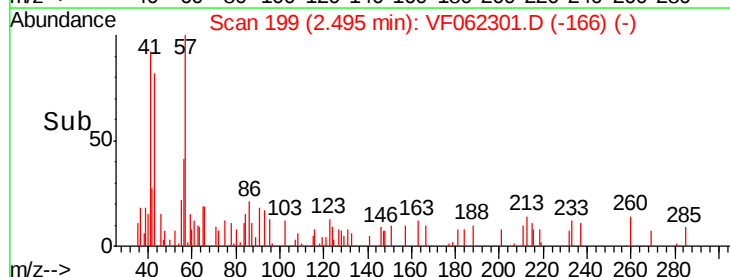
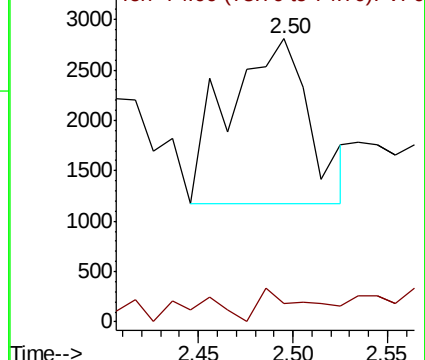
43 100

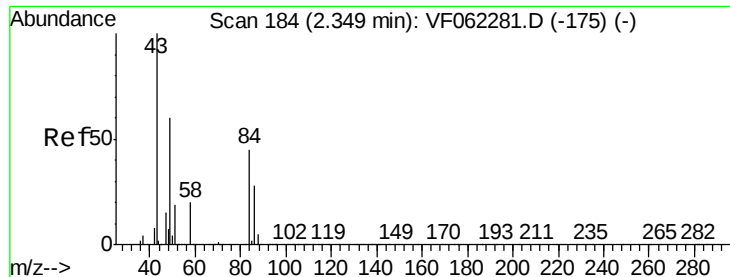
74 10.8 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

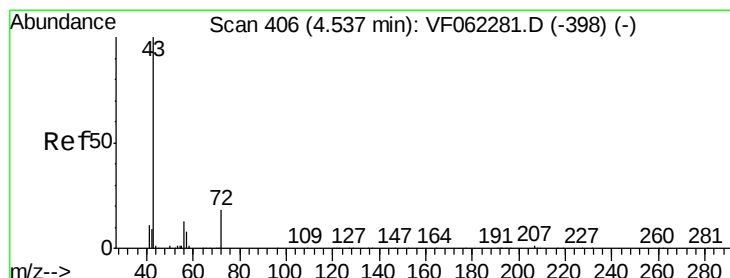
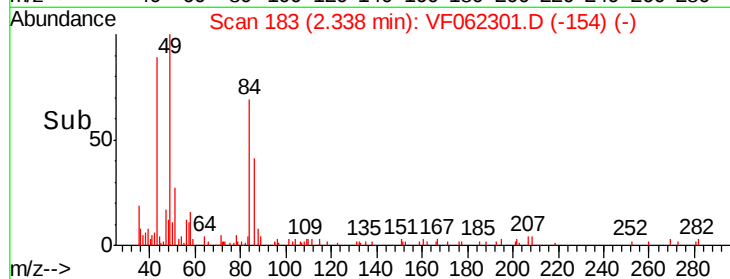
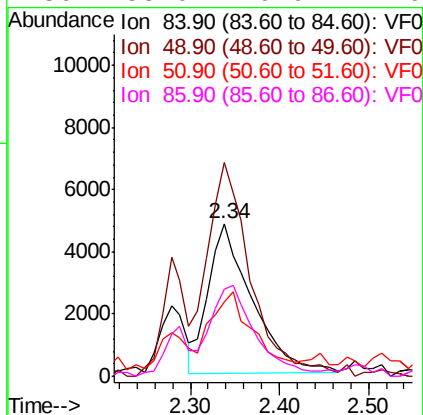
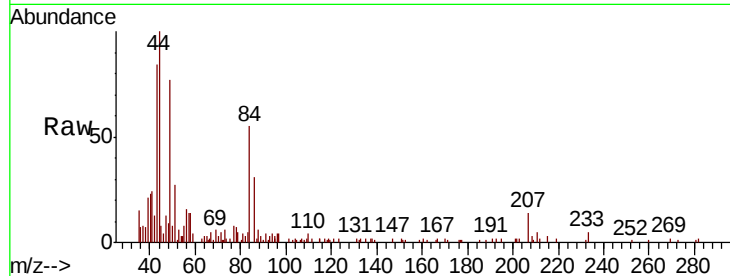




#20
Methvlene Chloride
Concen: 1.381 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

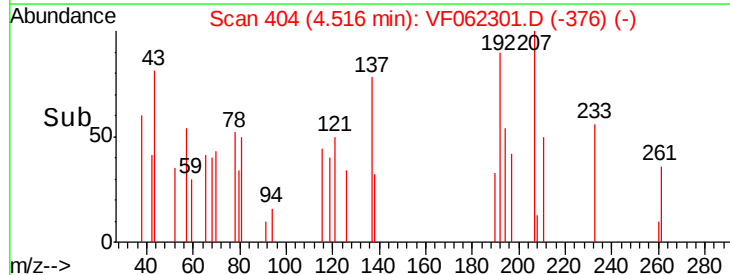
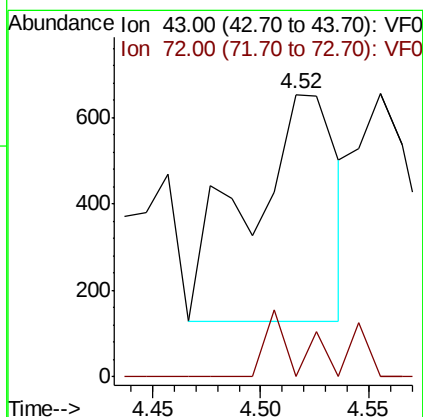
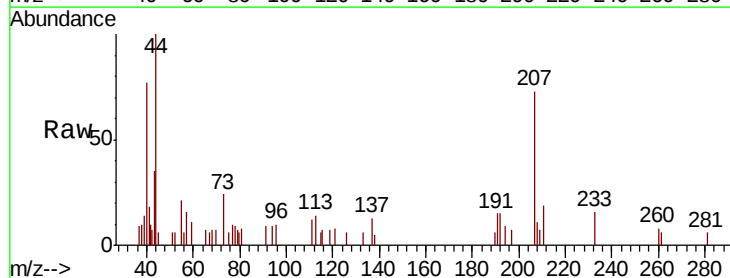
Instrument :
MSVOA_F
ClientSampleId :
OK-01-042519

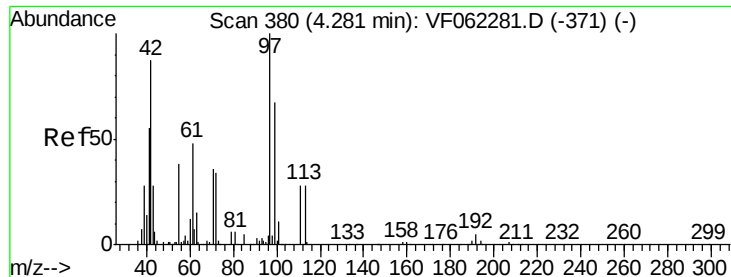
Tot Ion:	84	Resp:	16515
Ion	Ratio	Lower	Upper
84	100		
49	142.1	112.1	168.1
51	42.2	35.9	53.9
86	55.0	49.9	74.9



#25
2-Butanone
Concen: 1.588 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

Tgt Ion:	43	Resp:	1496
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.8	23.6#





#29

Tetrahydrofuran

Concen: 2.851 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

OK-01-042519

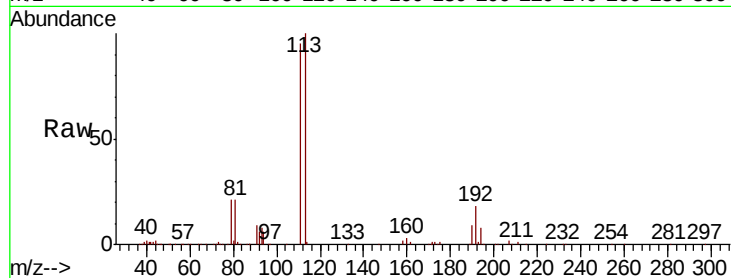
Tot Ion: 42 Resp: 1180

Ion Ratio Lower Upper

42 100

72 15.4 29.3 43.9#

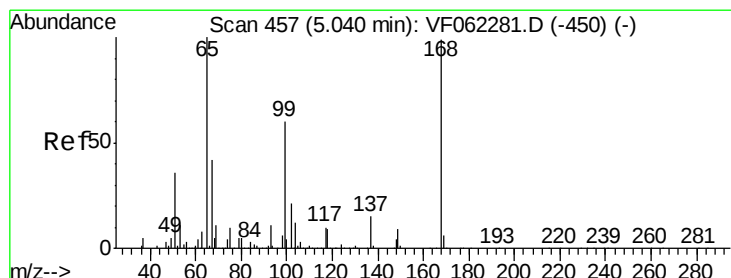
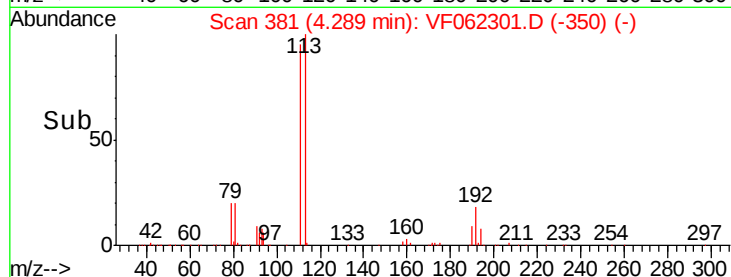
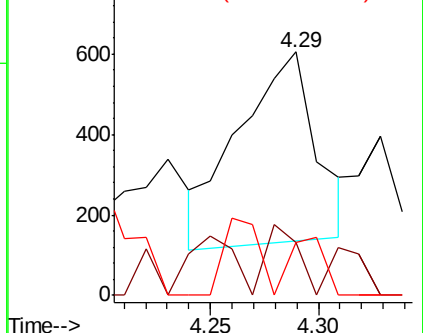
71 0.0 31.2 46.8#



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: 66.420 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF062301.D

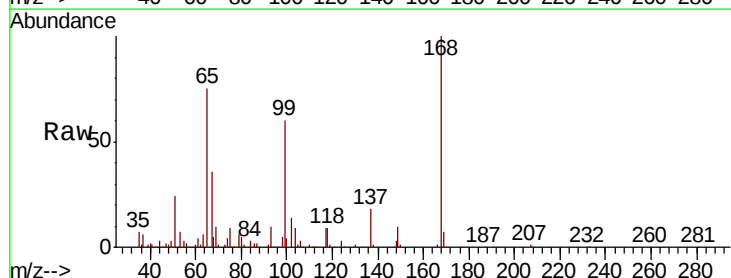
Acq: 25 Apr 2019 19:26

Tgt Ion: 65 Resp: 176232

Ion Ratio Lower Upper

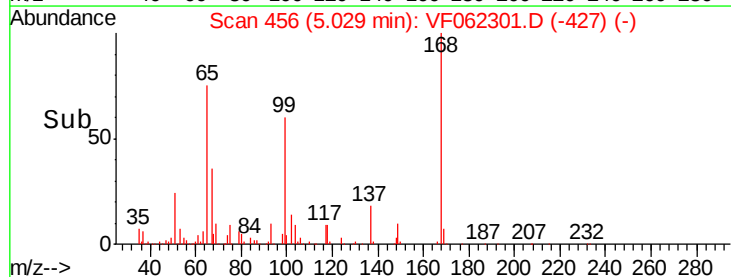
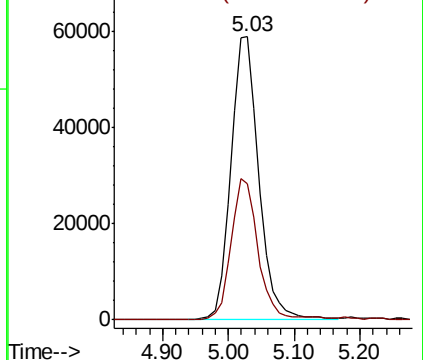
65 100

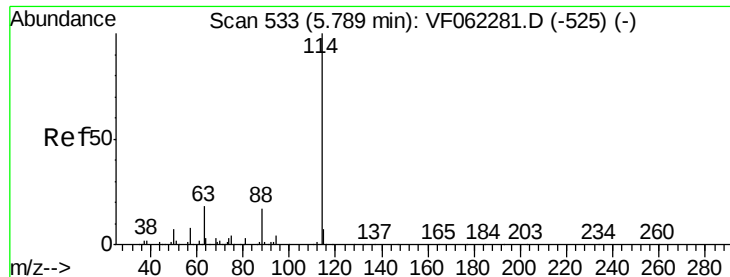
67 48.6 0.0 98.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

OK-01-042519

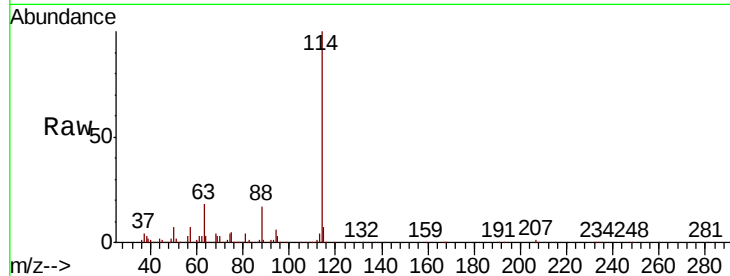
Tot Ion:114 Resp: 485104

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

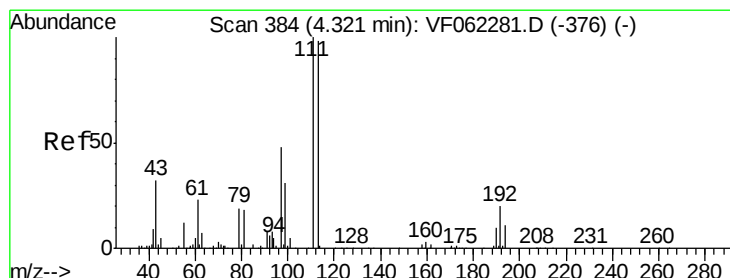
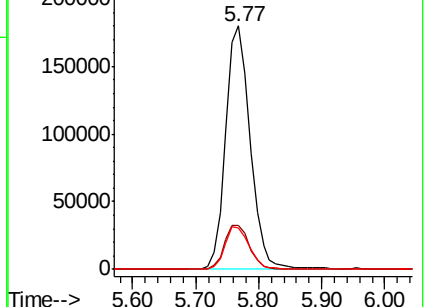
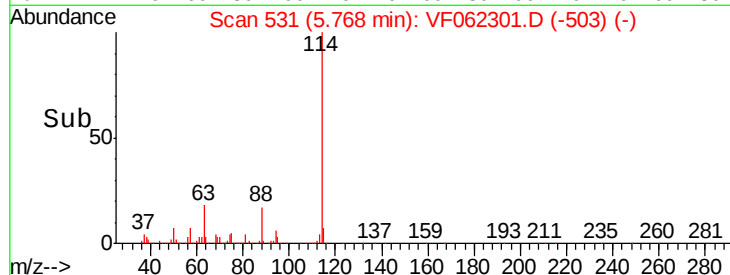
88 16.9 0.0 34.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 58.717 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

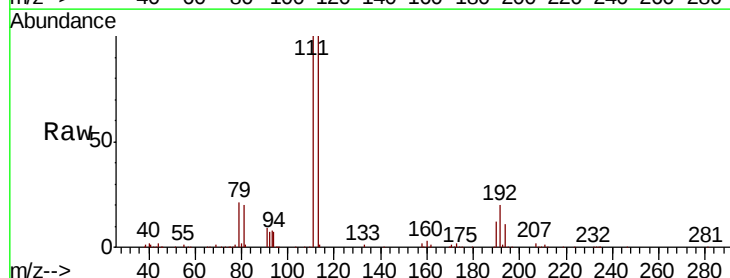
Tgt Ion:113 Resp: 211194

Ion Ratio Lower Upper

113 100

111 99.6 81.4 122.2

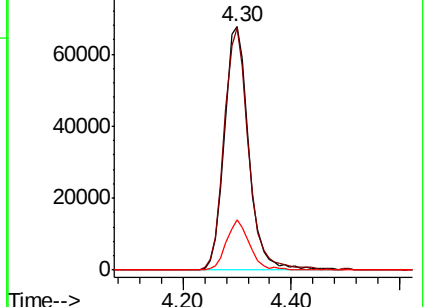
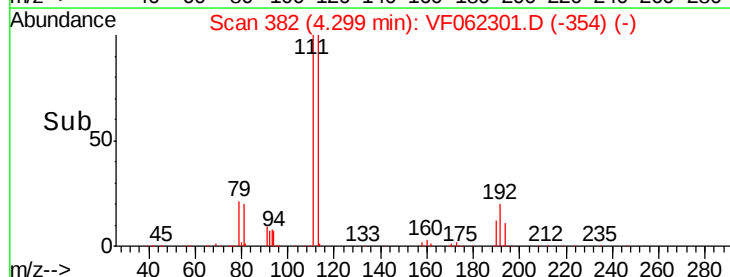
192 19.9 17.0 25.4

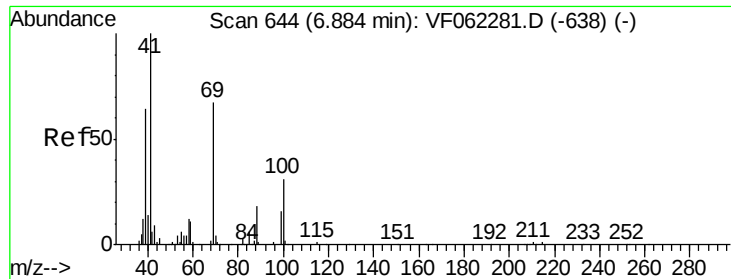


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

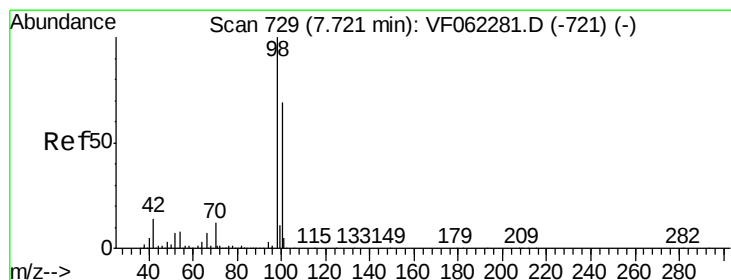
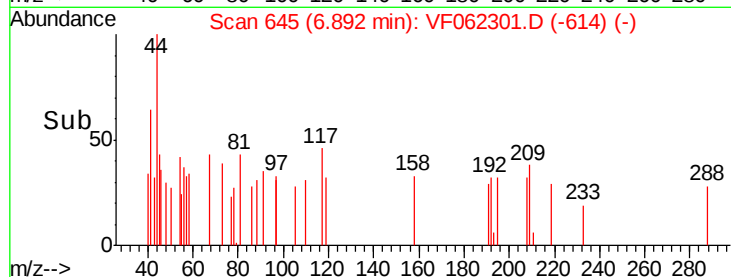
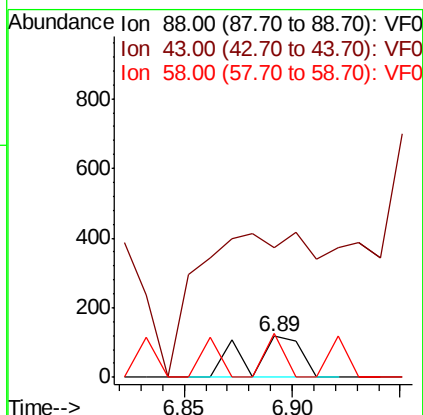
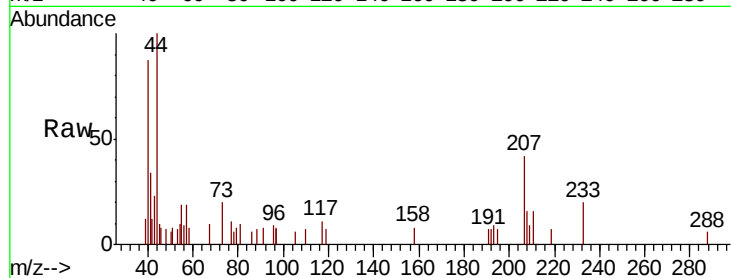




#49
 1,4-Dioxane
 Concen: 12.213 ug/l
 RT: 6.89 min Scan# 645
 Delta R.T. 0.01 min
 Lab File: VF062301.D
 Acq: 25 Apr 2019 19:26

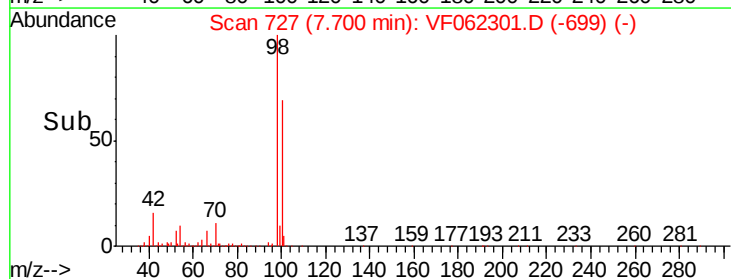
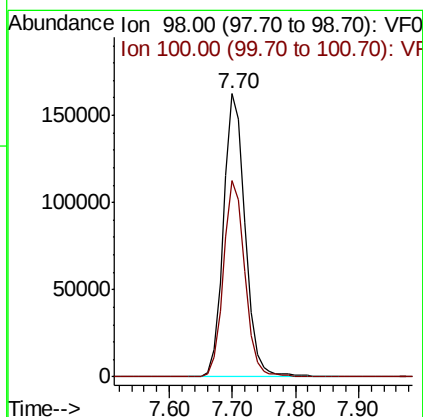
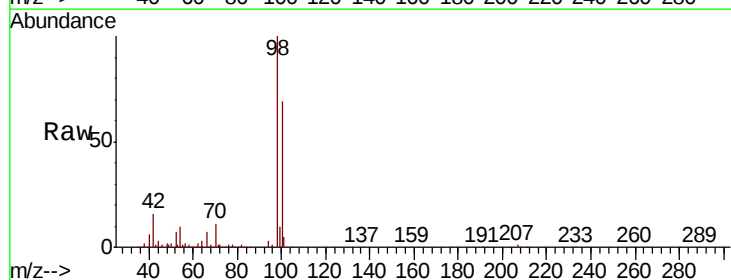
Instrument :
 MSVOA_F
 ClientSampleId :
 OK-01-042519

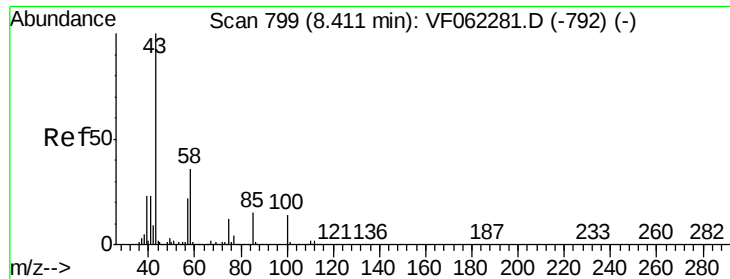
Tot Ion: 88 Resp: 194
 Ion Ratio Lower Upper
 88 100
 43 899.5 34.2 51.4#
 58 39.2 50.7 76.1#



#50
 Toluene-d8
 Concen: 44.111 ug/l
 RT: 7.70 min Scan# 727
 Delta R.T. -0.02 min
 Lab File: VF062301.D
 Acq: 25 Apr 2019 19:26

Tgt Ion: 98 Resp: 387543
 Ion Ratio Lower Upper
 98 100
 100 68.5 54.4 81.6





#51

4-Methyl-2-Pentanone

Concen: 1.174 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

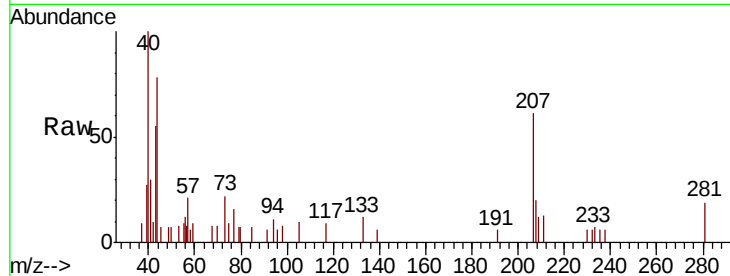
OK-01-042519

Tot Ion: 43 Resp: 1742

Ion Ratio Lower Upper

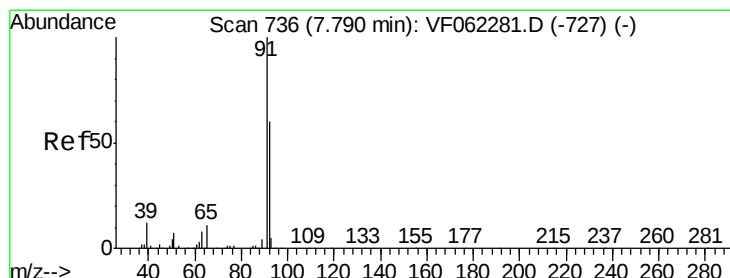
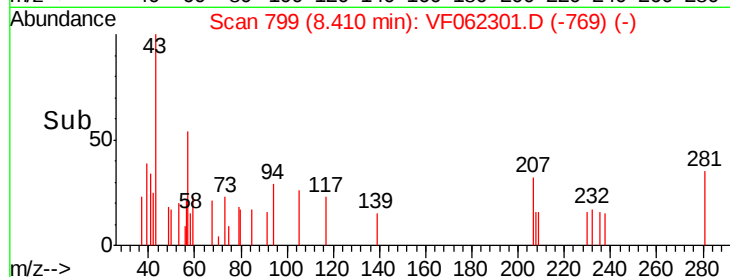
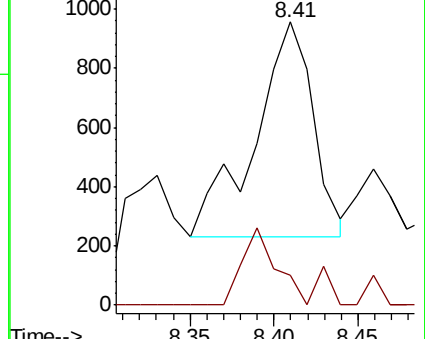
43 100

58 21.1 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.180 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF062301.D

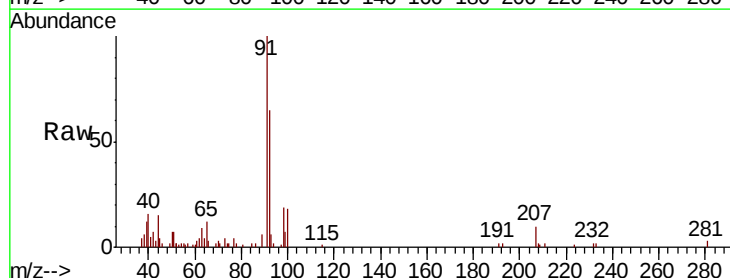
Acq: 25 Apr 2019 19:26

Tgt Ion: 92 Resp: 13600

Ion Ratio Lower Upper

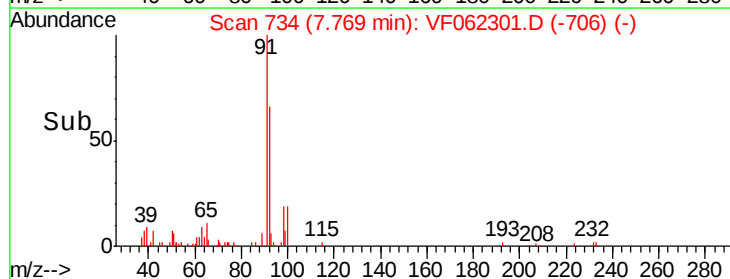
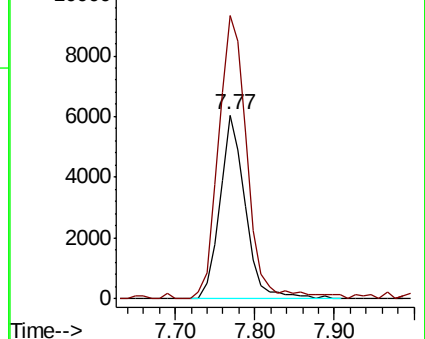
92 100

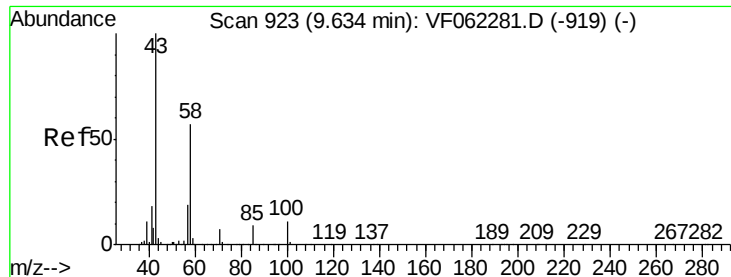
91 171.7 132.5 198.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

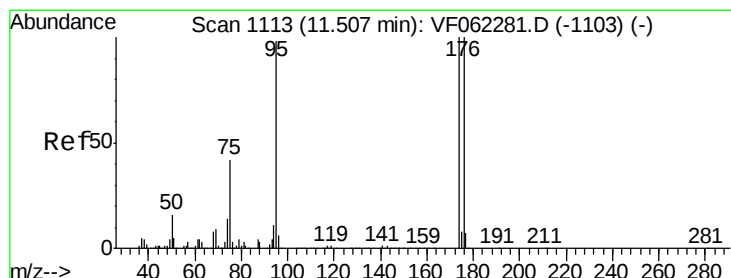
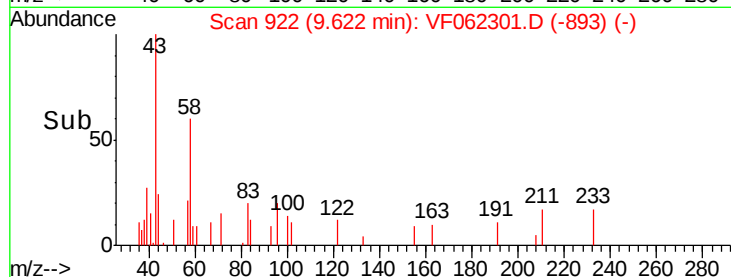
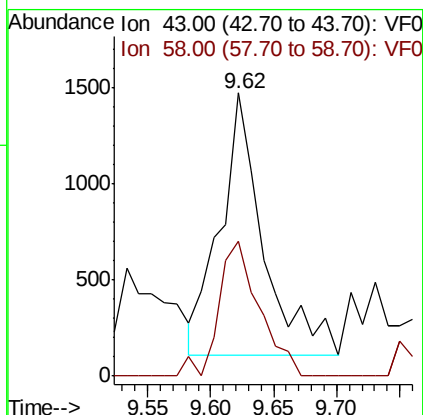
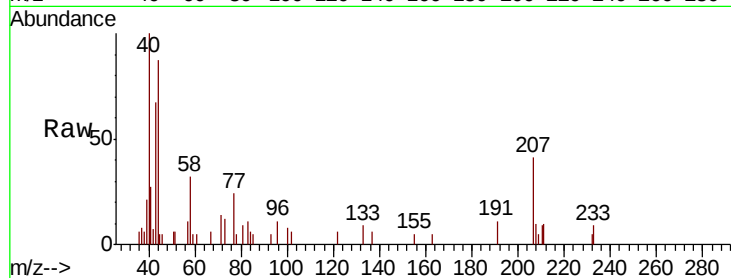




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

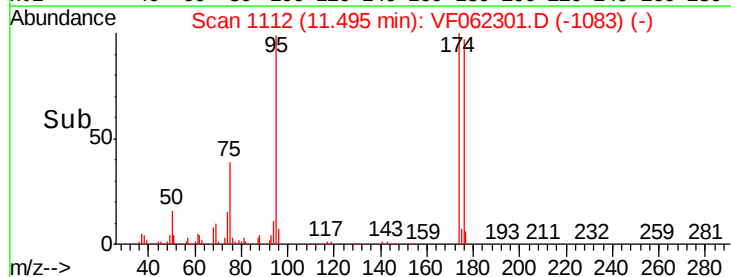
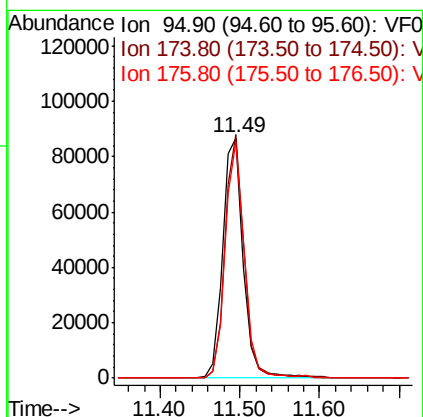
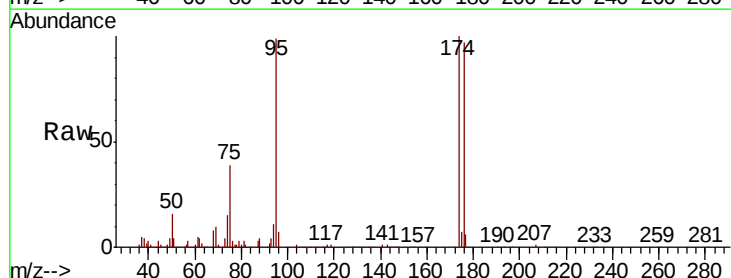
Instrument :
MSVOA_F
ClientSampleId :
OK-01-042519

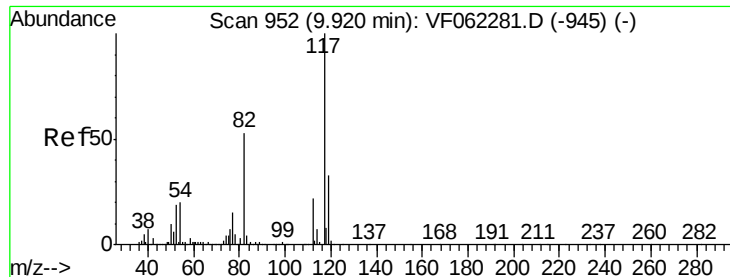
Tot Ion: 43 Resp: 3216
Ion Ratio Lower Upper
43 100
58 48.5 24.9 74.7



#62
4-Bromofluorobenzene
Concen: 43.720 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

Tgt Ion: 95 Resp: 158322
Ion Ratio Lower Upper
95 100
174 94.1 0.0 185.2
176 92.4 0.0 184.8

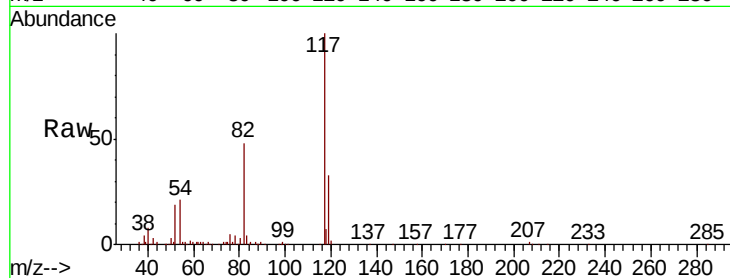




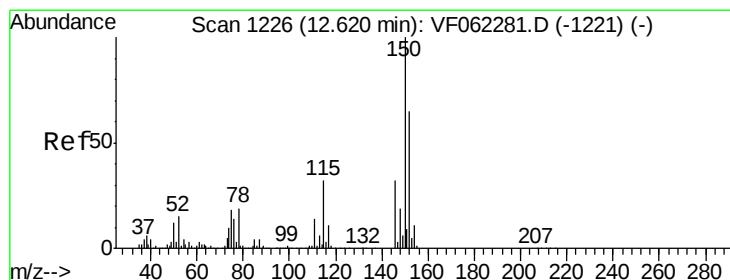
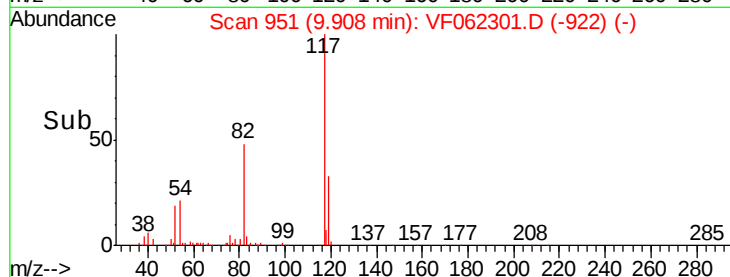
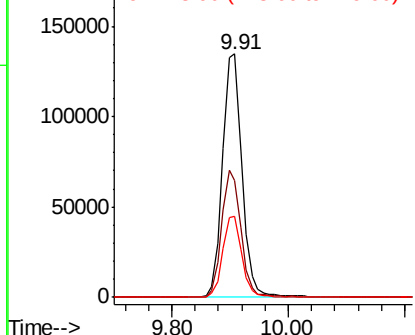
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

Instrument :
MSVOA_F
ClientSampleId :
OK-01-042519

Tot Ion:117 Resp: 313331
Ion Ratio Lower Upper
117 100
82 48.1 42.6 64.0
119 33.1 26.1 39.1

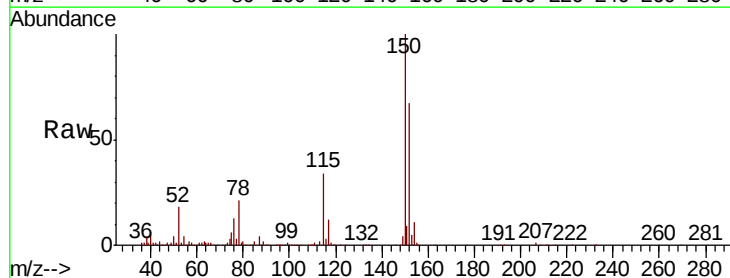


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

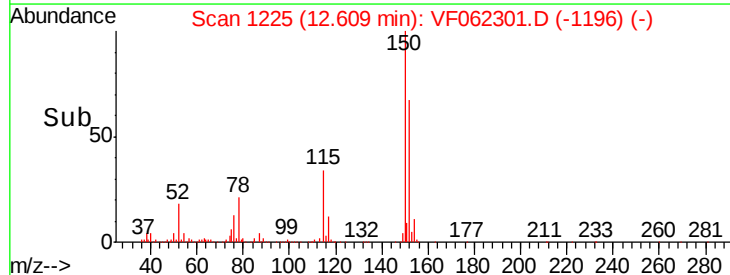
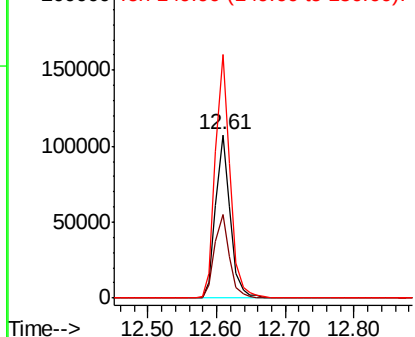


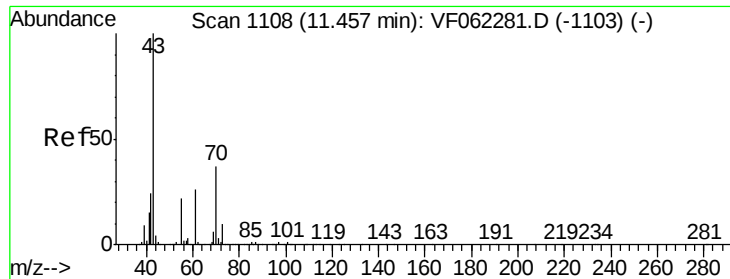
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062301.D
Acq: 25 Apr 2019 19:26

Tgt Ion:152 Resp: 158212
Ion Ratio Lower Upper
152 100
115 52.7 25.6 76.8
150 150.9 0.0 330.6



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





#74

N-amvl acetate

Concen: 1.065 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Instrument :

MSVOA_F

ClientSampleId :

OK-01-042519

Tot Ion: 43 Resp: 2659

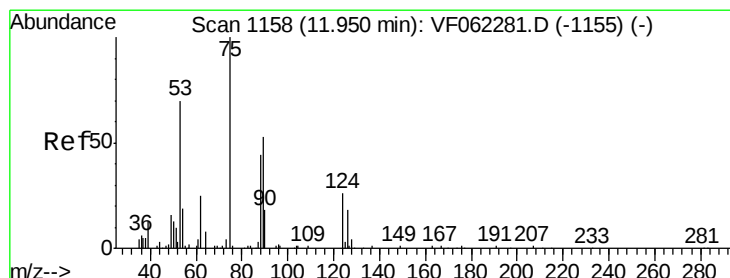
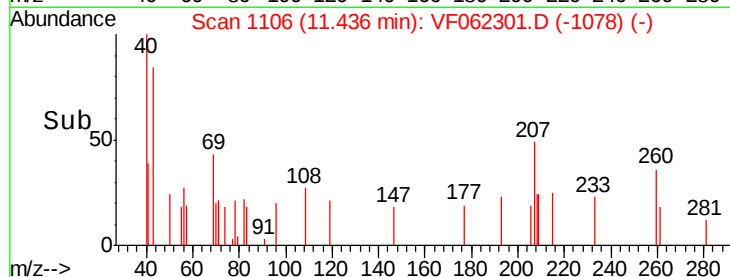
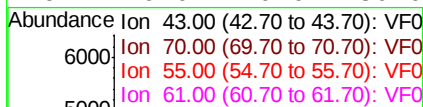
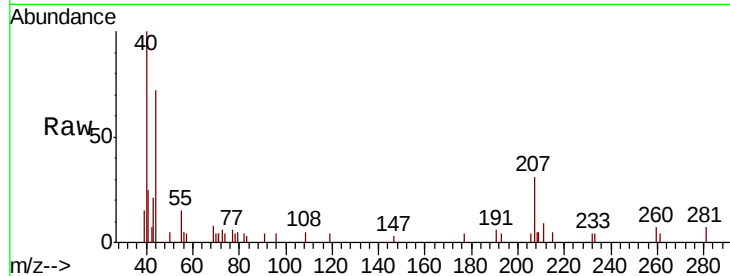
Ion Ratio Lower Upper

43 100

70 13.5 27.8 41.8#

55 48.3 16.6 24.8#

61 0.0 20.0 30.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.023 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062301.D

Acq: 25 Apr 2019 19:26

Tgt Ion: 75 Resp: 559

Ion Ratio Lower Upper

75 100

53 52.2 67.1 100.7#

89 41.7 0.0 0.0#

