

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022519\
 Data File : VF061729.D
 Acq On : 25 Feb 2019 14:40
 Operator : VA/AP
 Sample : K1348-03
 Misc : 6.41g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-022219-A

Quant Time: Feb 26 04:31:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	14234	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	15424	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	9520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	2806	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	2151	20.61	ug/l	-0.02
Spiked Amount			Recovery	=	41.22%	
35) Dibromofluoromethane	4.11	113	3657	31.93	ug/l	0.00
Spiked Amount			Recovery	=	63.86%	
50) Toluene-d8	7.55	98	11561	35.11	ug/l	0.00
Spiked Amount			Recovery	=	70.22%	
62) 4-Bromofluorobenzene	11.42	95	2659	19.96	ug/l	0.00
Spiked Amount			Recovery	=	39.92%	

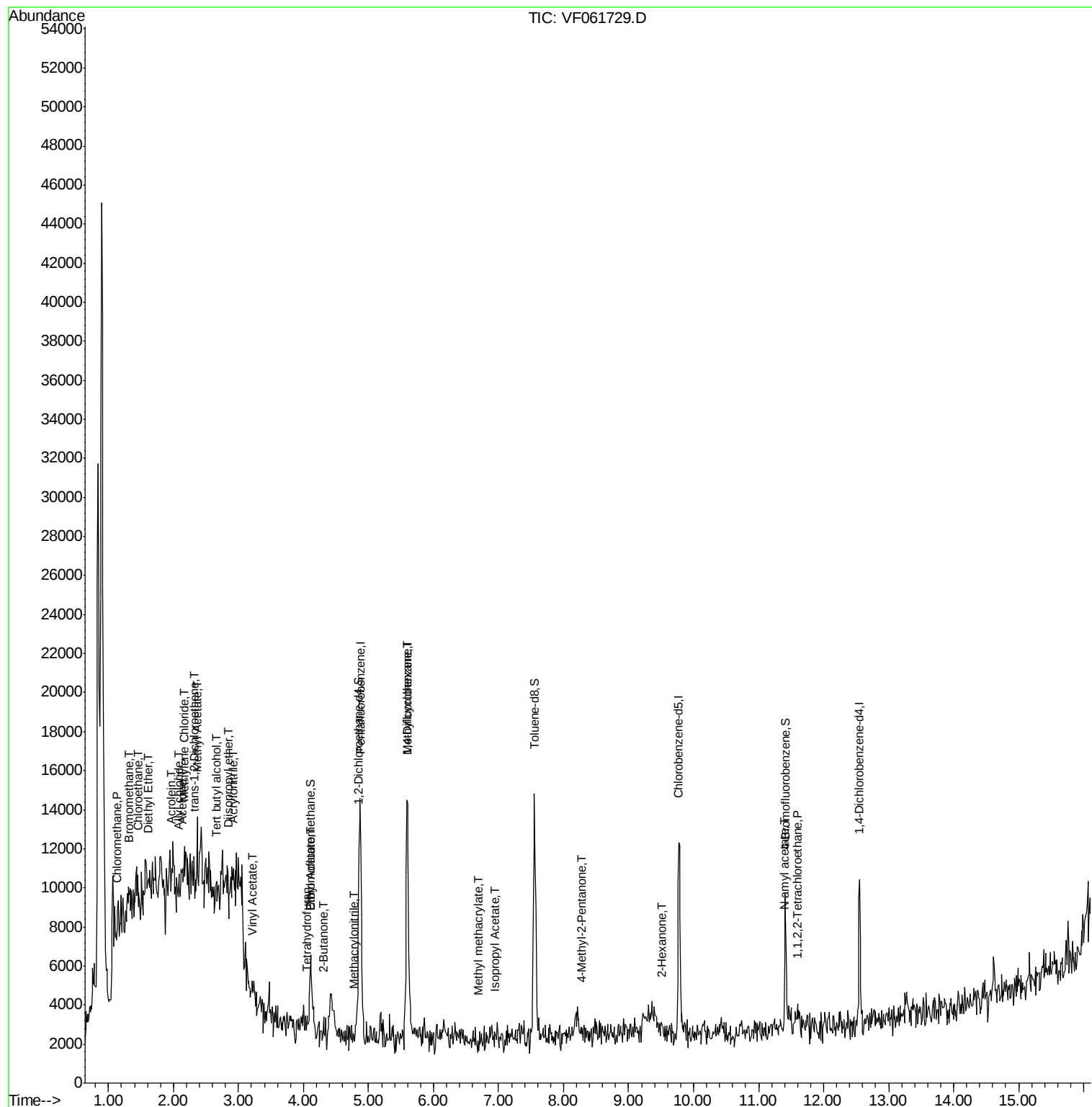
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.12	50	182	1.061	ug/l #	64
5) Bromomethane	1.32	94	409	3.727	ug/l #	3
6) Chloroethane	1.45	64	88	1.120	ug/l #	1
8) Diethyl Ether	1.62	74	75	1.548	ug/l #	1
11) Tert butyl alcohol	2.65	59	79	13.078	ug/l #	1
13) Acrolein	1.97	56	212	27.923	ug/l	91
14) Allyl chloride	2.09	41	287	1.918	ug/l #	73
15) Acrylonitrile	2.93	53	311	14.514	ug/l #	36
16) Acetone	2.13	43	789	35.231	ug/l	98
18) Methyl Acetate	2.37	43	418	8.285	ug/l	99
20) Methylene Chloride	2.18	84	604	2.646	ug/l #	67
21) trans-1,2-Dichloroethene	2.32	96	214	1.614	ug/l #	42
22) Diisopropyl ether	2.85	45	1022	2.845	ug/l #	1
23) Vinyl Acetate	3.20	43	294	1.675	ug/l #	74
25) 2-Butanone	4.30	43	454	9.281	ug/l #	55
29) Tetrahydrofuran	4.05	42	143	6.432	ug/l #	33
37) Ethyl Acetate	4.11	43	118	1.663	ug/l #	30
39) Methylcyclohexane	5.60	83	232	1.284	ug/l #	15
41) Methacrylonitrile	4.77	41	263	7.246	ug/l #	25
43) Isopropyl Acetate	6.96	43	91	1.083	ug/l #	43
48) Methyl methacrylate	6.69	41	62	1.226	ug/l #	17
51) 4-Methyl-2-Pentanone	8.28	43	336	5.598	ug/l #	34
59) 2-Hexanone	9.51	43	209	4.967	ug/l #	23
74) N-amyl acetate	11.39	43	170	3.545	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	11.61	83	60	1.676	ug/l #	26

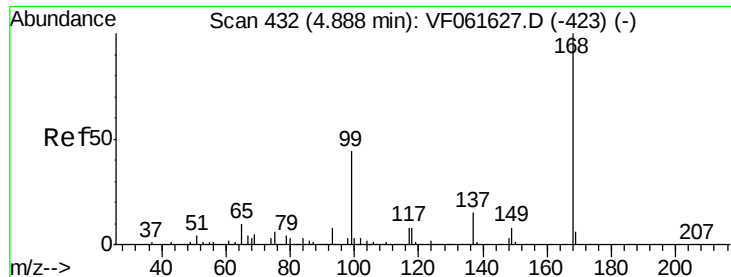
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

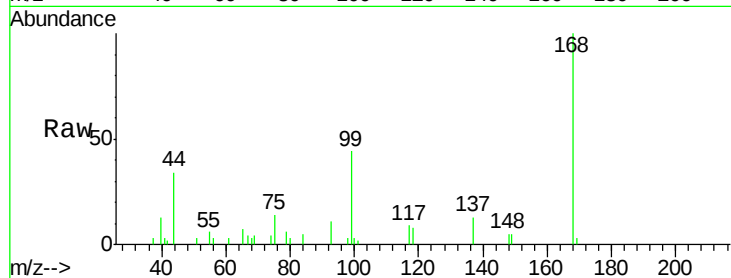
OK-03-022219-A

Tot Ion:168 Resp: 14234

Ion Ratio Lower Upper

168 100

99 44.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

5000

4000

3000

2000

1000

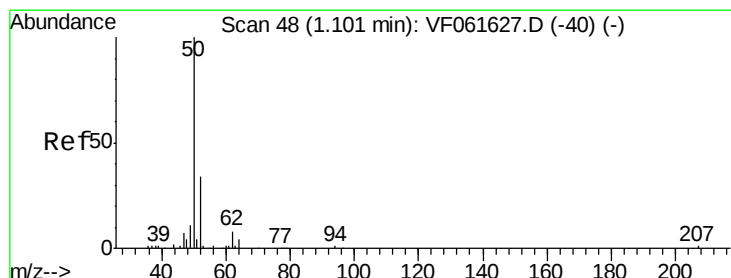
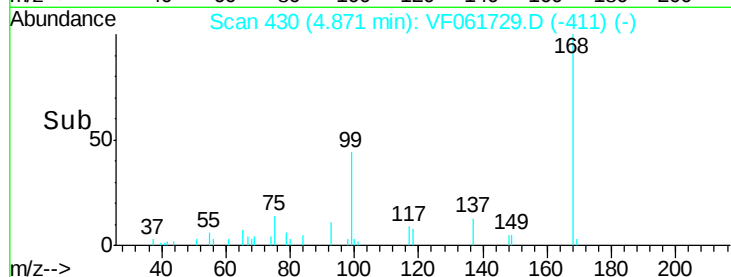
0

Time-->

4.80

4.90

5.00



#3

Chloromethane

Concen: 1.061 ug/l

RT: 1.12 min Scan# 50

Delta R.T. 0.02 min

Lab File: VF061729.D

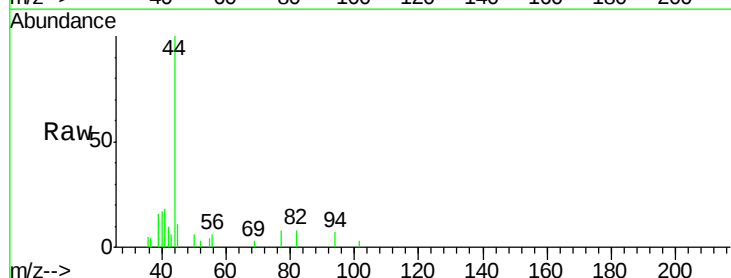
Acq: 25 Feb 2019 14:40

Tgt Ion: 50 Resp: 182

Ion Ratio Lower Upper

50 100

52 53.3 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.12

200

150

100

50

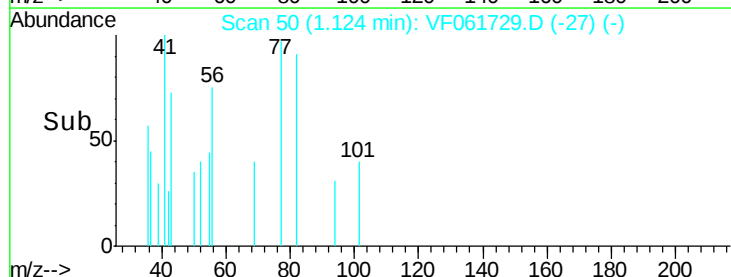
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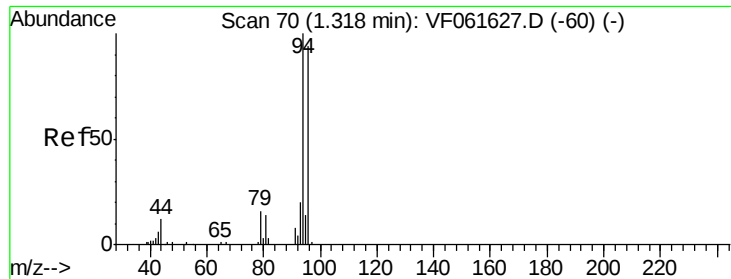
Time-->

1.10

1.12

1.14





#5

Bromomethane

Concen: 3.727 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

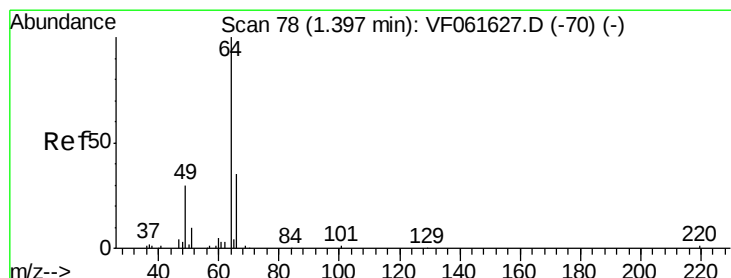
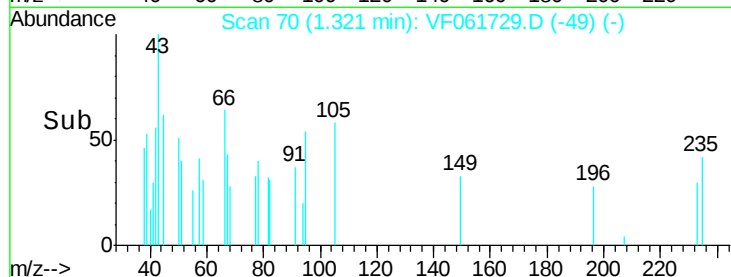
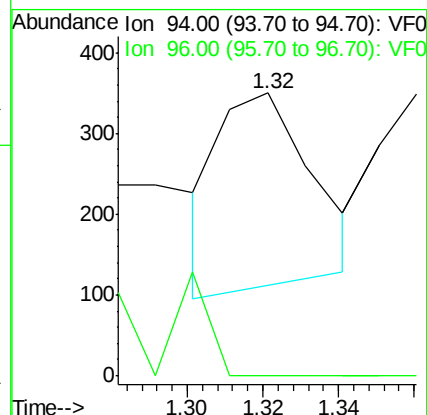
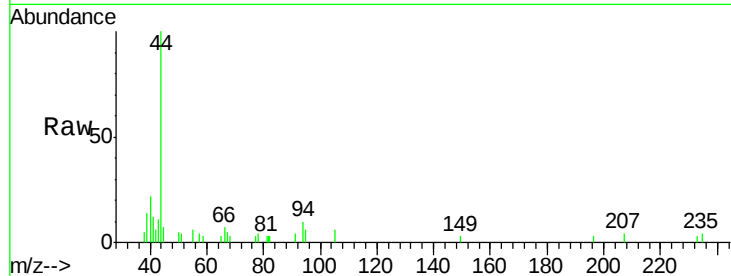
OK-03-022219-A

Tot Ion: 94 Resp: 409

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



#6

Chloroethane

Concen: 1.120 ug/l

RT: 1.45 min Scan# 83

Delta R.T. 0.05 min

Lab File: VF061729.D

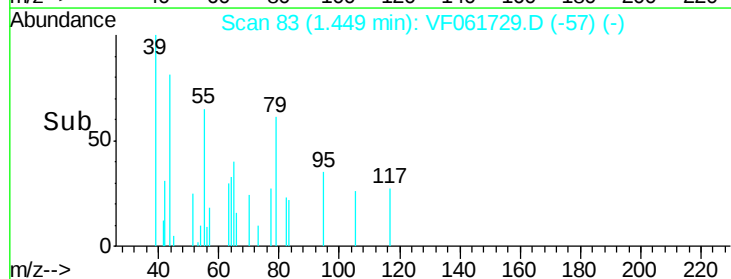
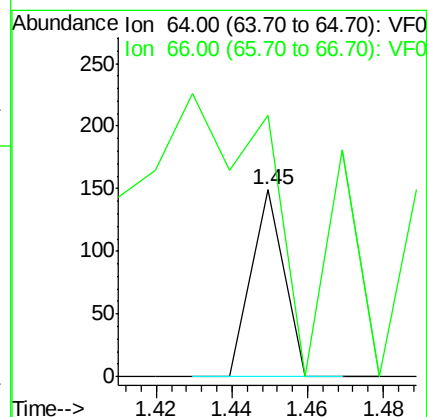
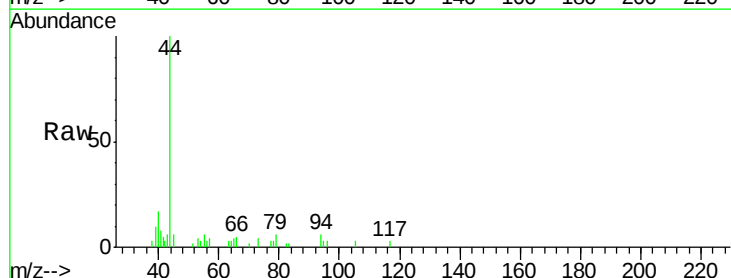
Acq: 25 Feb 2019 14:40

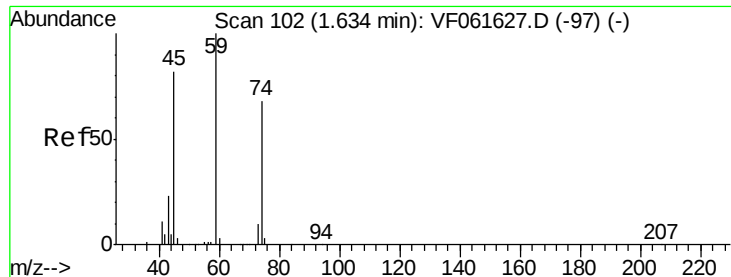
Tgt Ion: 64 Resp: 88

Ion Ratio Lower Upper

64 100

66 140.3 27.9 41.9#





#8

Diethyl Ether

Concen: 1.548 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

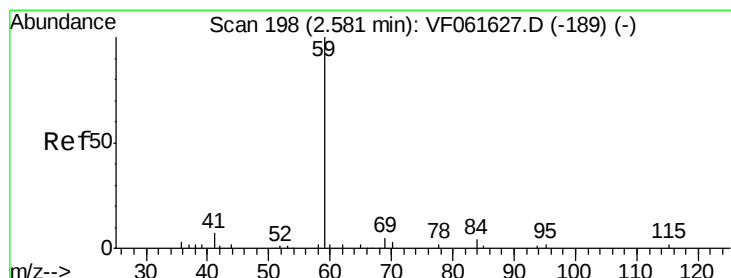
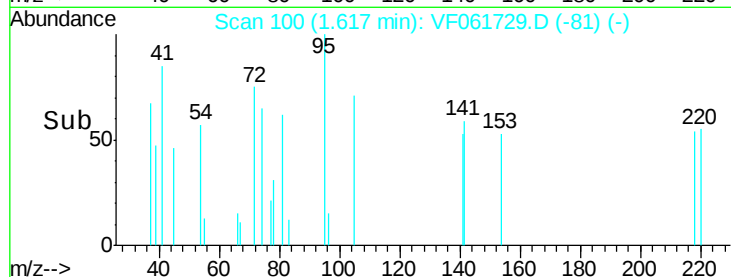
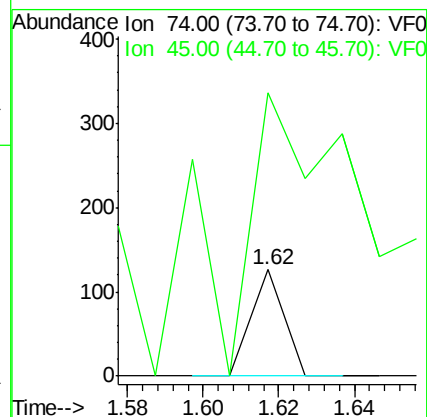
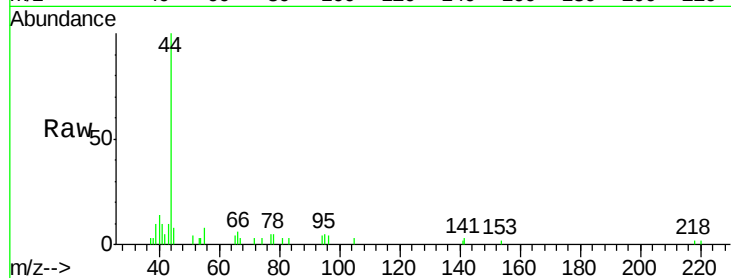
OK-03-022219-A

Tot Ion: 74 Resp: 75

Ion Ratio Lower Upper

74 100

45 266.7 60.8 182.3#



#11

Tert butyl alcohol

Concen: 13.078 ug/l

RT: 2.65 min Scan# 205

Delta R.T. 0.07 min

Lab File: VF061729.D

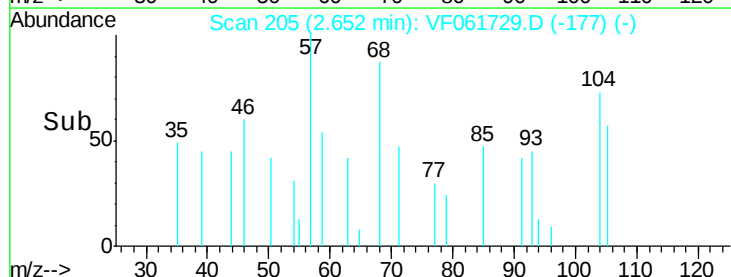
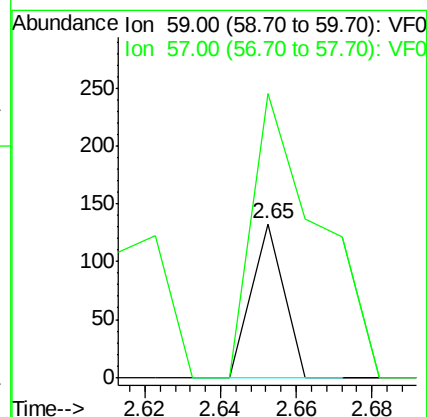
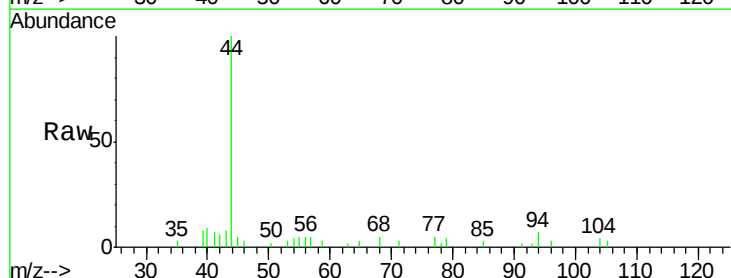
Acq: 25 Feb 2019 14:40

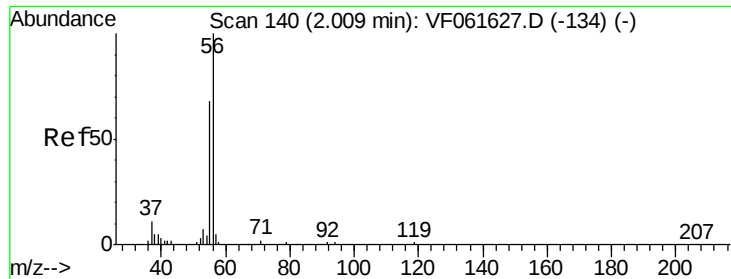
Tgt Ion: 59 Resp: 79

Ion Ratio Lower Upper

59 100

57 184.2 12.5 18.7#





#13

Acrolein

Concen: 27.923 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.04 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

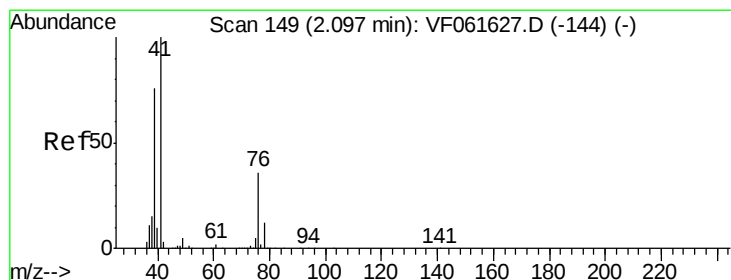
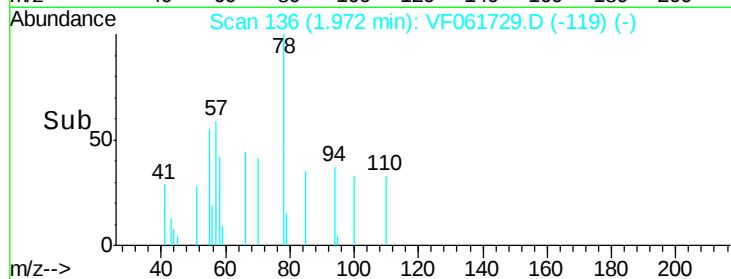
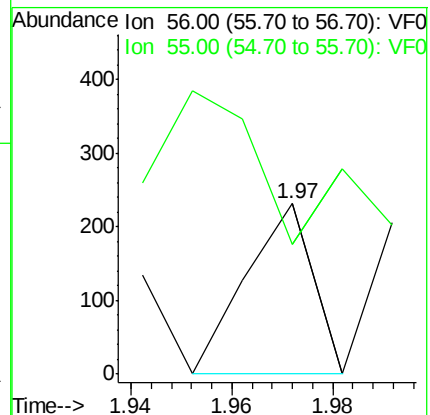
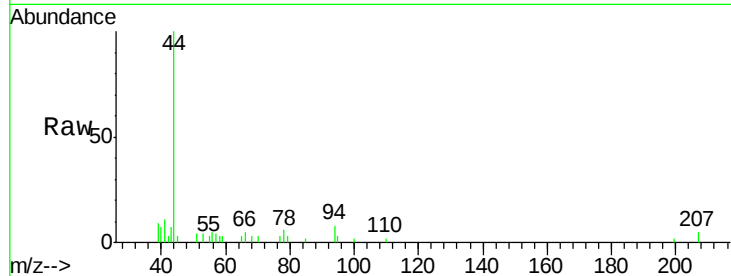
OK-03-022219-A

Tot Ion: 56 Resp: 212

Ion Ratio Lower Upper

56 100

55 75.8 55.0 82.6



#14

Allyl chloride

Concen: 1.918 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

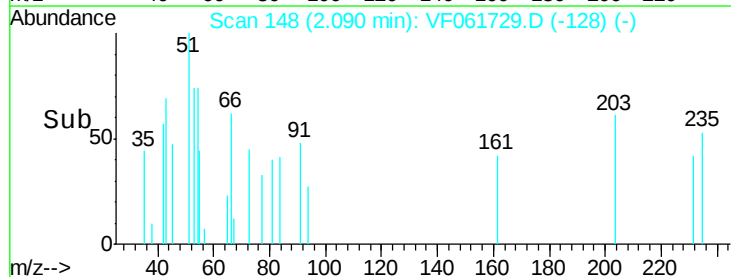
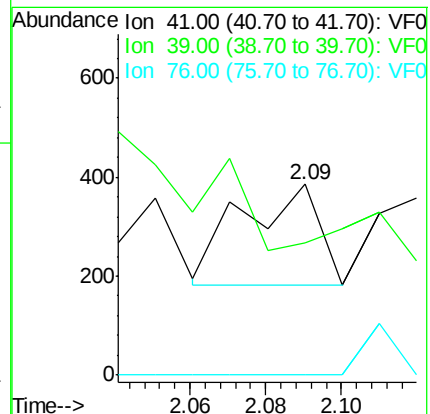
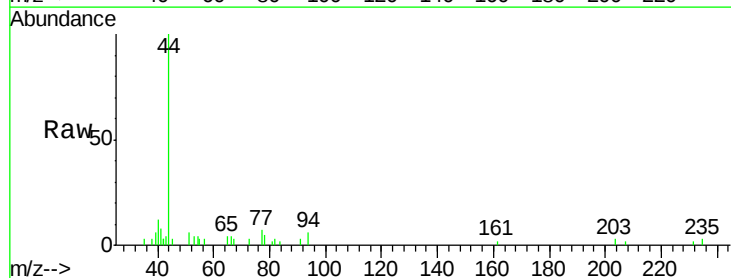
Tgt Ion: 41 Resp: 287

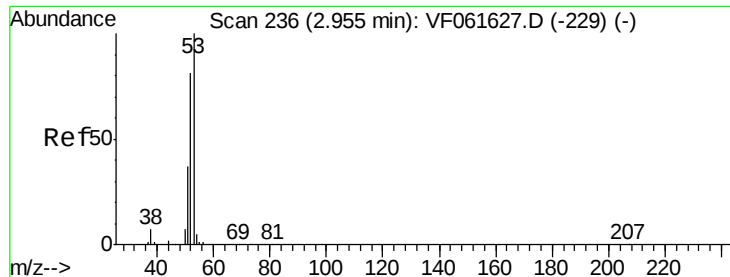
Ion Ratio Lower Upper

41 100

39 69.4 61.6 92.4

76 0.0 30.3 45.5#





#15

Acrylonitrile

Concen: 14.514 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

OK-03-022219-A

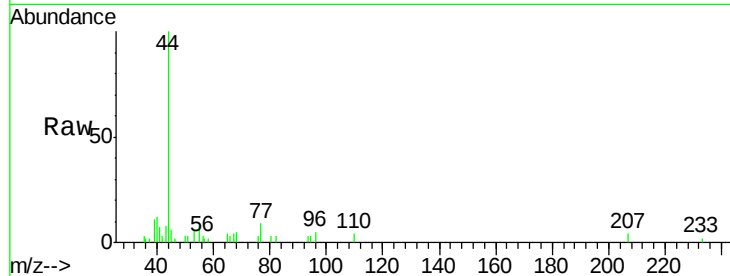
Tot Ion: 53 Resp: 311

Ion Ratio Lower Upper

53 100

52 0.0 64.6 97.0#

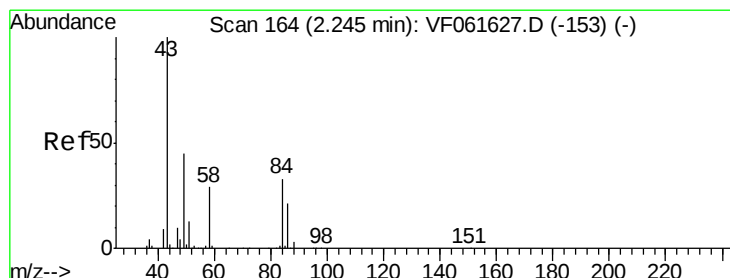
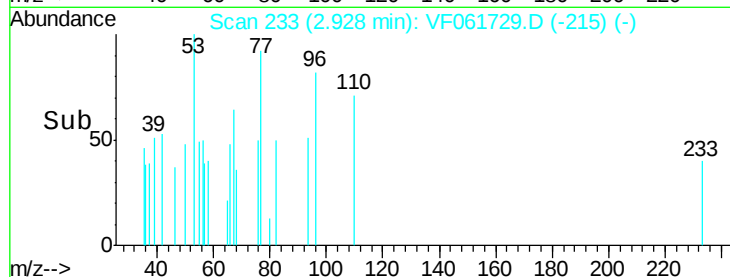
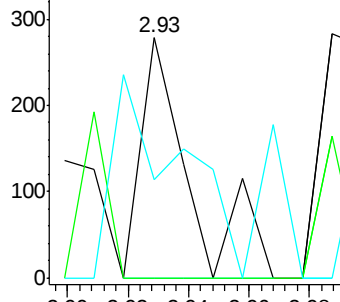
51 41.0 29.8 44.8



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: 35.231 ug/l

RT: 2.13 min Scan# 152

Delta R.T. -0.12 min

Lab File: VF061729.D

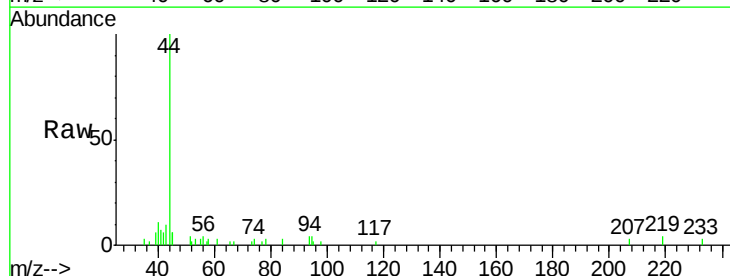
Acq: 25 Feb 2019 14:40

Tgt Ion: 43 Resp: 789

Ion Ratio Lower Upper

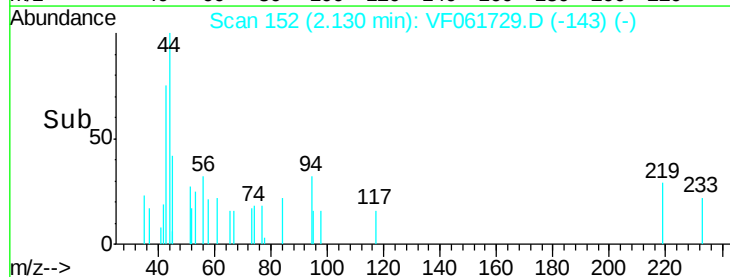
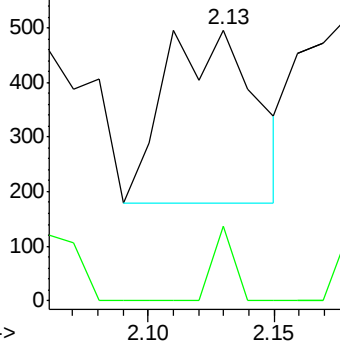
43 100

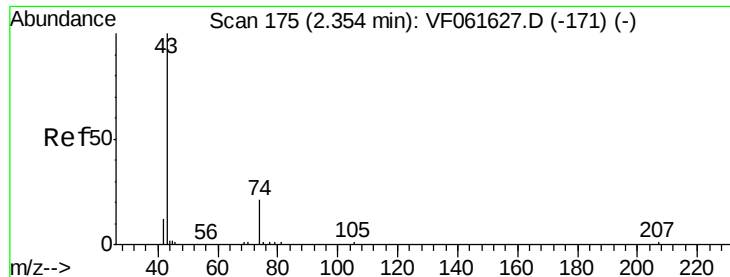
58 27.4 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

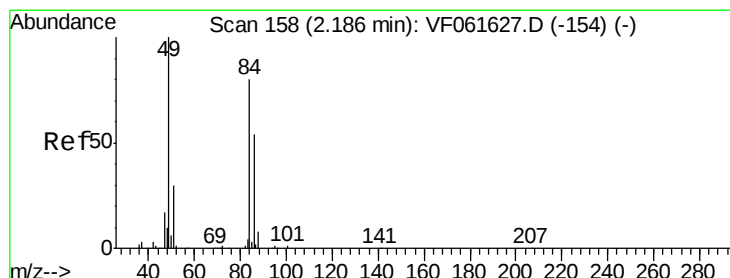
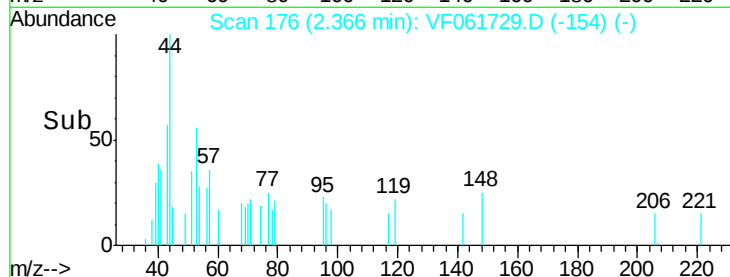
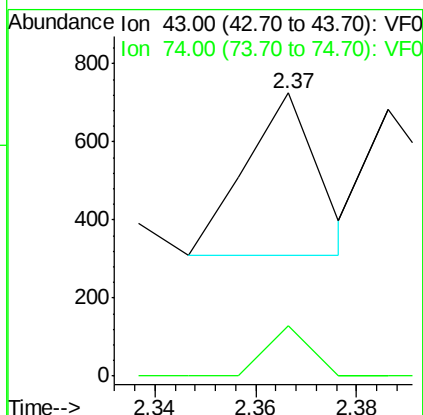
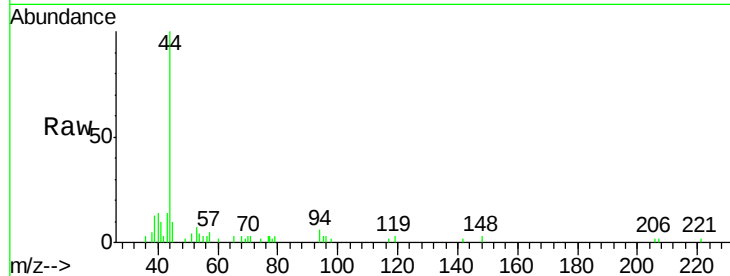




#18
Methyl Acetate
Concen: 8.285 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

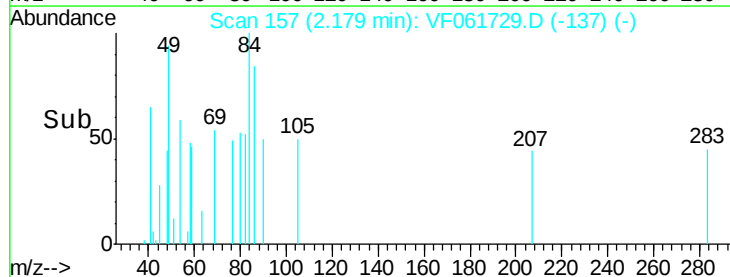
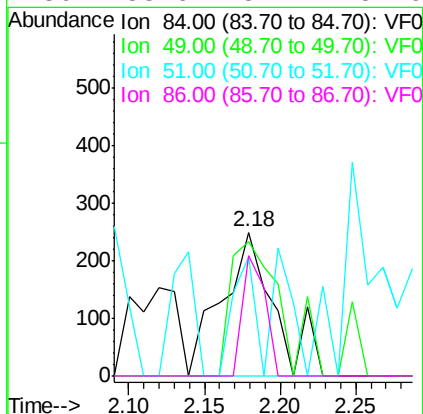
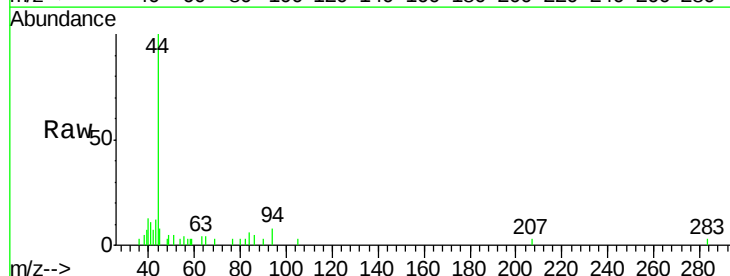
Instrument :
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OK-03-022219-A

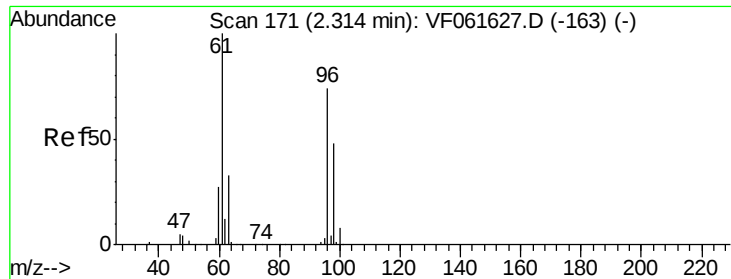
Tot Ion: 43 Resp: 418
Ion Ratio Lower Upper
43 100
74 17.8 14.6 21.8



#20
Methylene Chloride
Concen: 2.646 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion: 84 Resp: 604
Ion Ratio Lower Upper
84 100
49 93.6 101.8 152.8#
51 82.4 31.1 46.7#
86 83.6 54.4 81.6#





#21

trans-1,2-Dichloroethene

Concen: 1.614 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

OK-03-022219-A

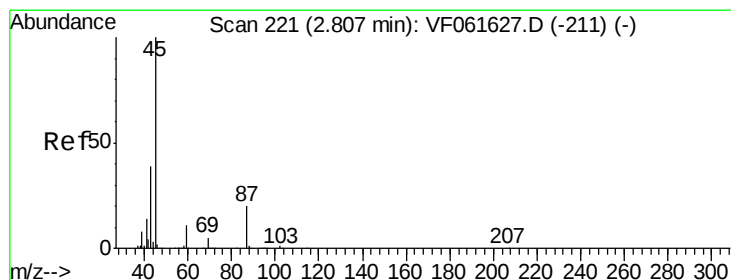
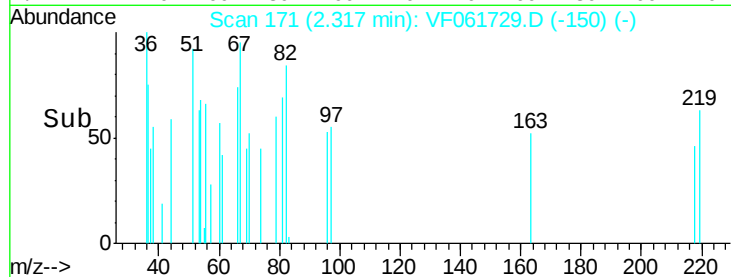
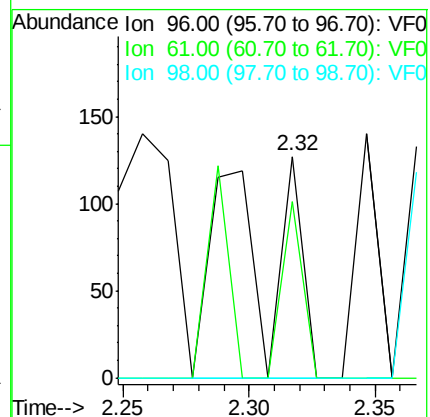
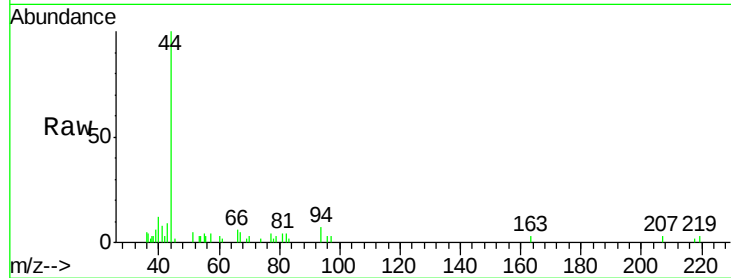
Tot Ion: 96 Resp: 214

Ion Ratio Lower Upper

96 100

61 79.5 108.2 162.4#

98 0.0 52.2 78.2#



#22

Diisopropyl ether

Concen: 2.845 ug/l

RT: 2.85 min Scan# 225

Delta R.T. 0.04 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Tgt Ion: 45 Resp: 1022

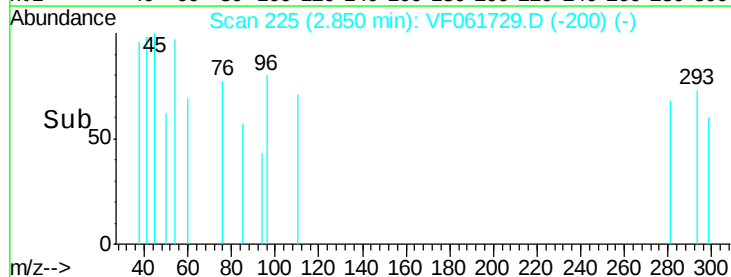
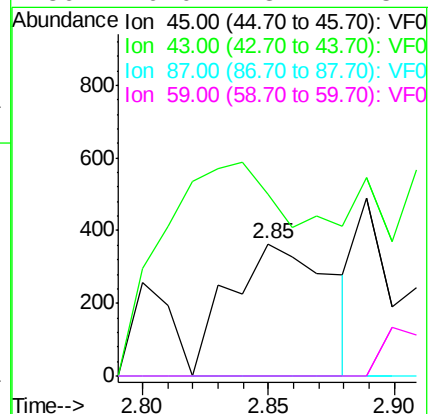
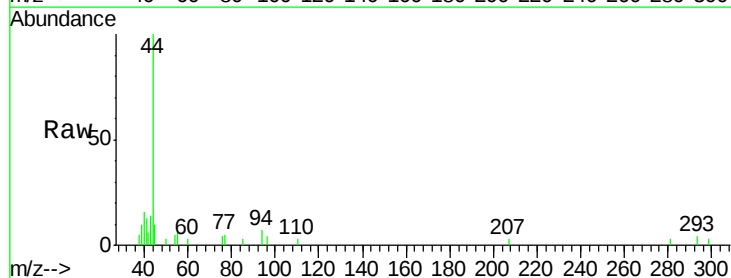
Ion Ratio Lower Upper

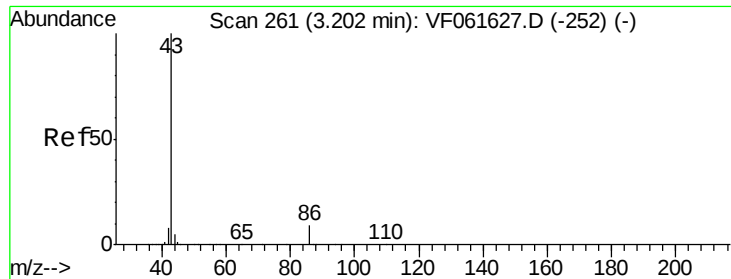
45 100

43 137.7 31.4 47.2#

87 0.0 16.3 24.5#

59 0.0 8.7 13.1#





#23

Vinyl Acetate

Concen: 1.675 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

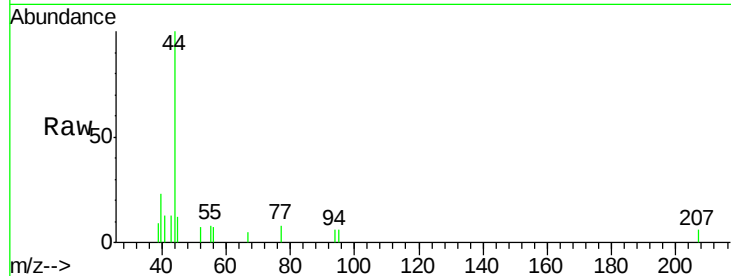
OK-03-022219-A

Tot Ion: 43 Resp: 294

Ion Ratio Lower Upper

43 100

86 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

250

200

150

100

50

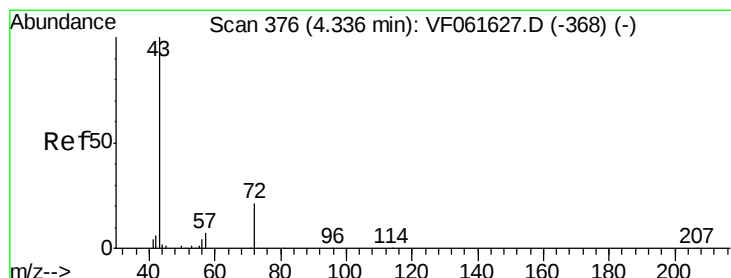
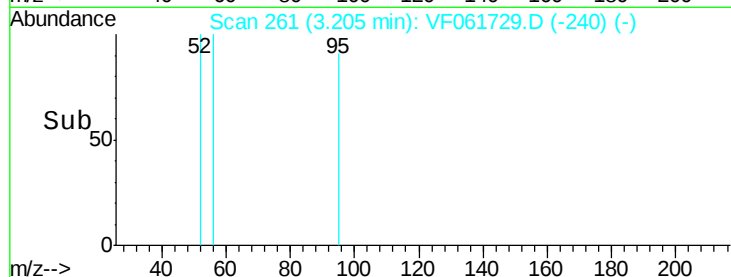
0

3.18

3.20

3.22

Time-->



#25

2-Butanone

Concen: 9.281 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.04 min

Lab File: VF061729.D

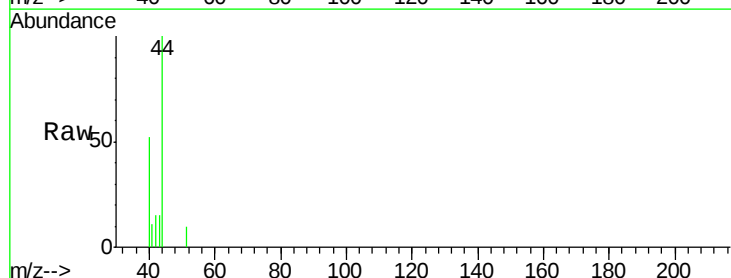
Acq: 25 Feb 2019 14:40

Tgt Ion: 43 Resp: 454

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.30

200

150

100

50

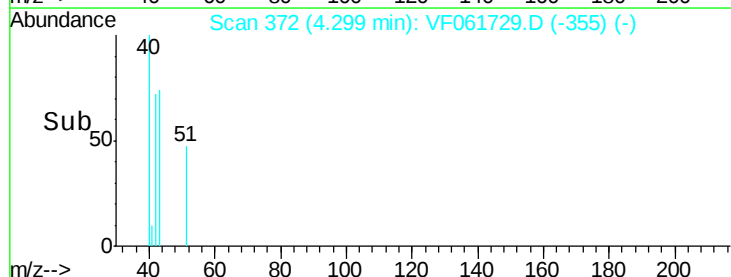
0

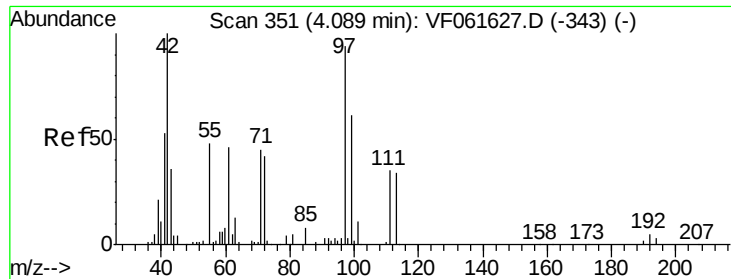
4.25

4.30

4.35

Time-->

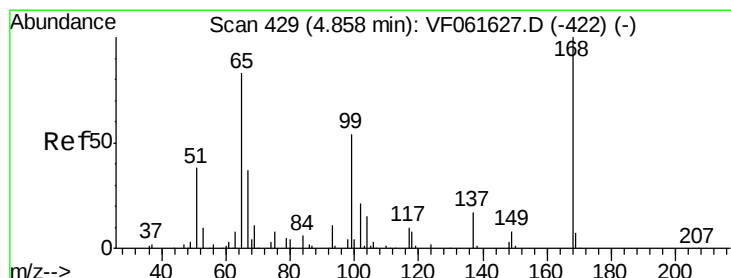
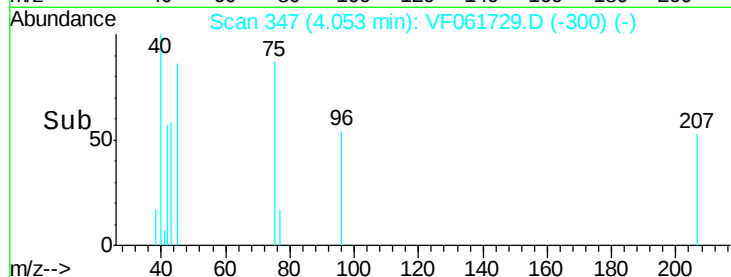
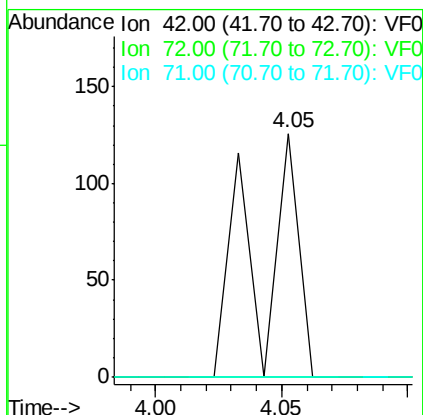
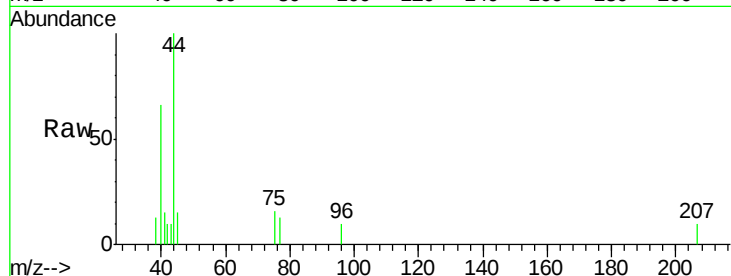




#29
Tetrahydrofuran
Concen: 6.432 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

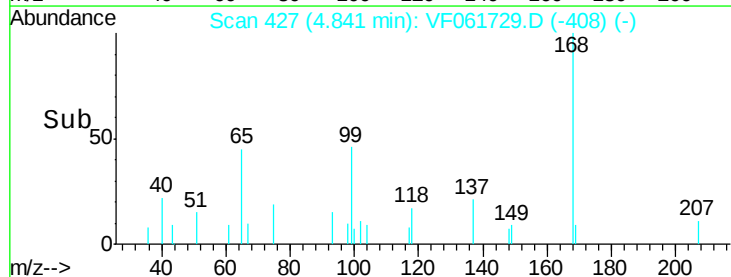
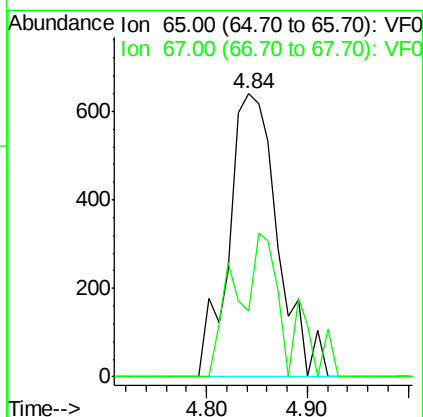
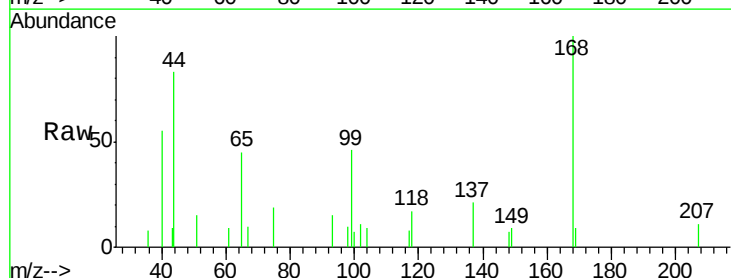
Instrument :
MSVOA_F
ClientSampleId :
OK-03-022219-A

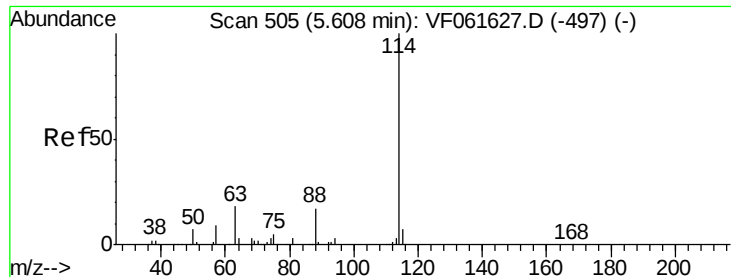
Tot Ion: 42 Resp: 143
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 0.0 32.9 49.3#



#33
1,2-Dichloroethane-d4
Concen: 20.607 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.02 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion: 65 Resp: 2151
Ion Ratio Lower Upper
65 100
67 23.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

OK-03-022219-A

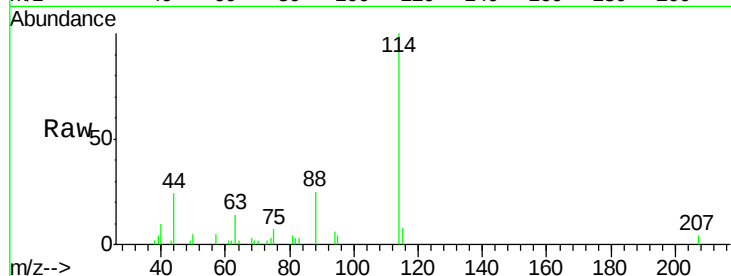
Tot Ion:114 Resp: 15424

Ion Ratio Lower Upper

114 100

63 14.3 0.0 36.6

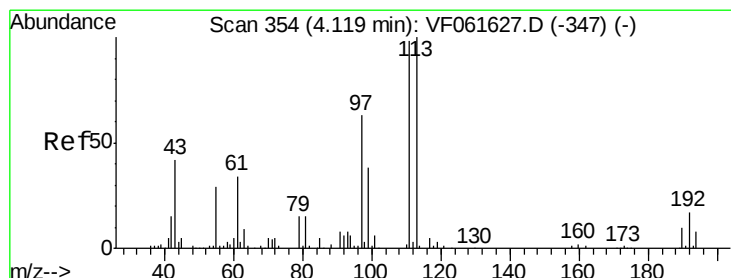
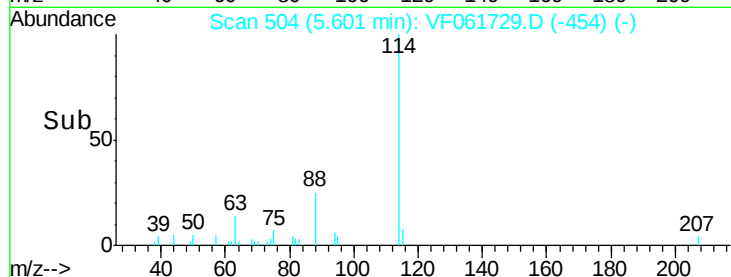
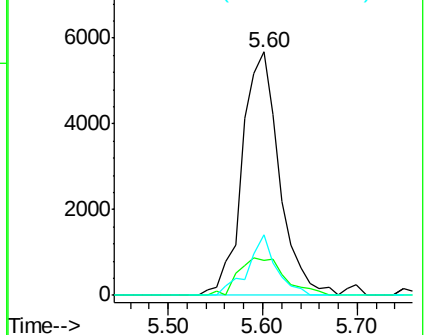
88 24.7 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 31.928 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

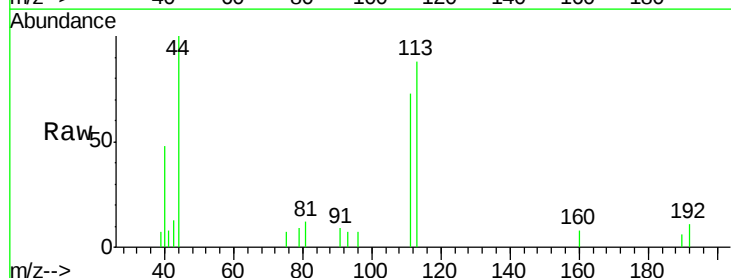
Tgt Ion:113 Resp: 3657

Ion Ratio Lower Upper

113 100

111 82.3 78.8 118.2

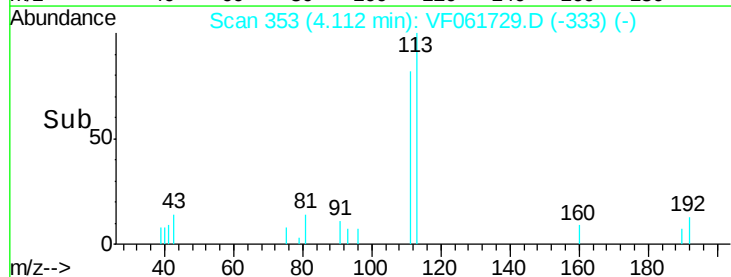
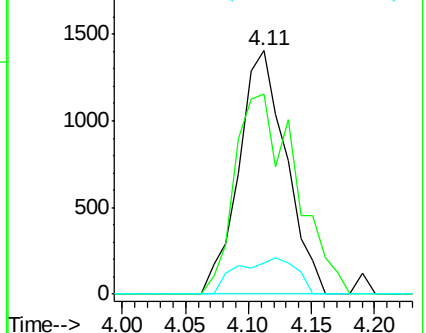
192 12.8 13.4 20.0#

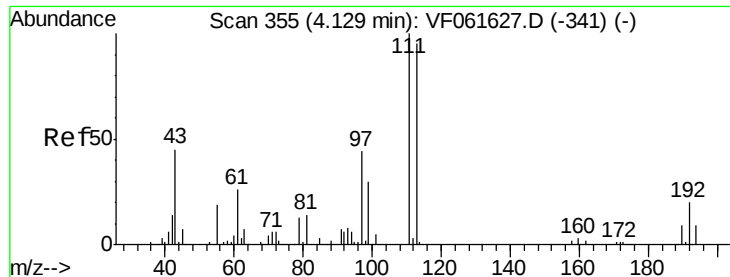


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

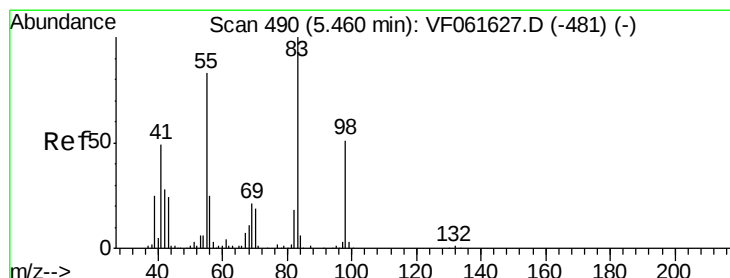
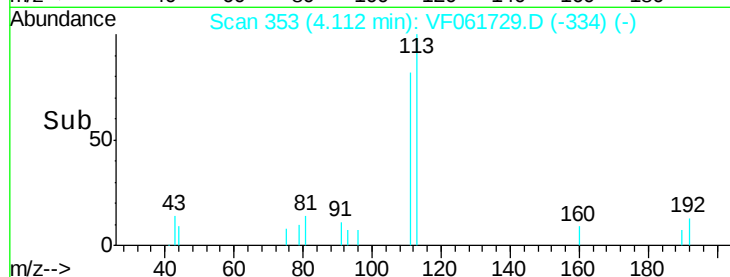
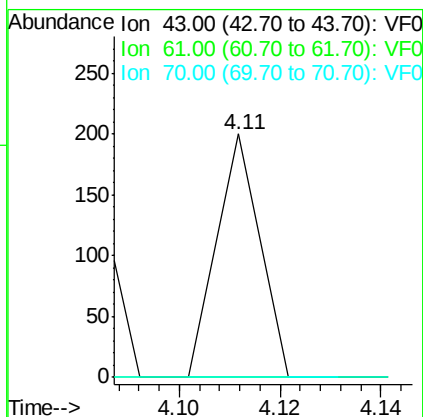
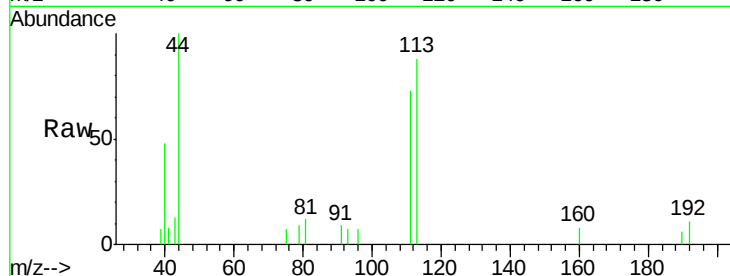




#37
Ethyl Acetate
Concen: 1.663 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.02 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

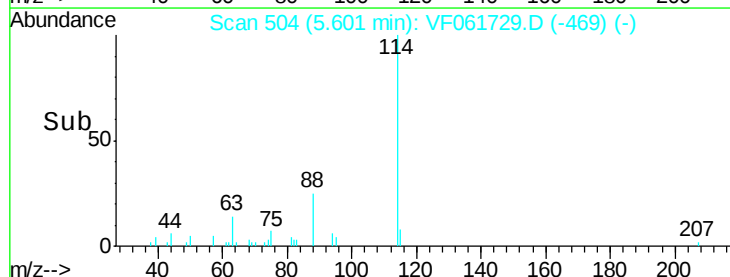
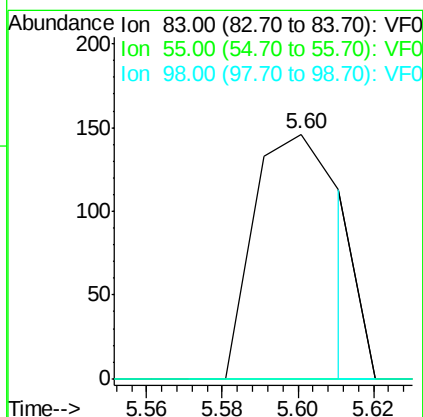
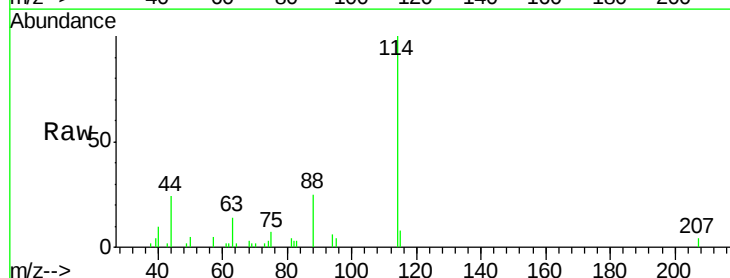
Instrument :
MSVOA_F
ClientSampleId :
OK-03-022219-A

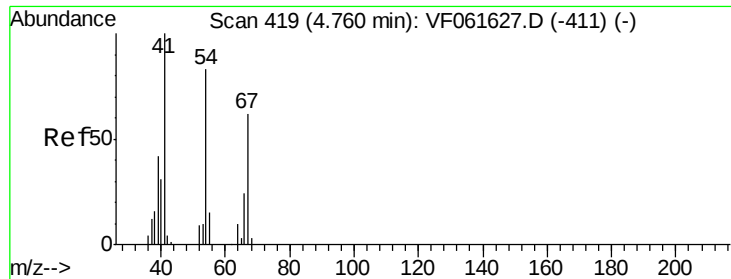
Tot Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
61 0.0 45.7 68.5#
70 0.0 8.5 12.7#



#39
Methylcyclohexane
Concen: 1.284 ug/l
RT: 5.60 min Scan# 504
Delta R.T. 0.14 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion: 83 Resp: 232
Ion Ratio Lower Upper
83 100
55 0.0 66.6 99.8#
98 0.0 40.4 60.6#

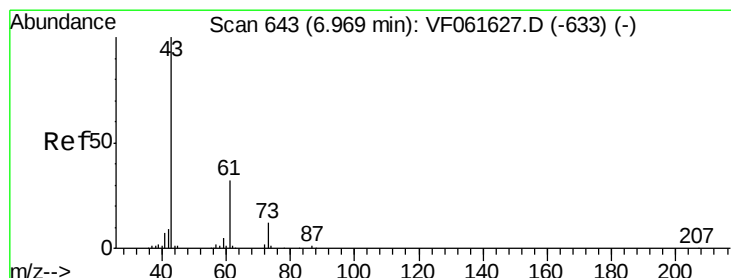
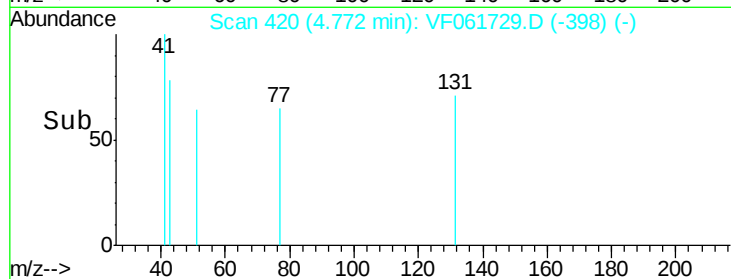
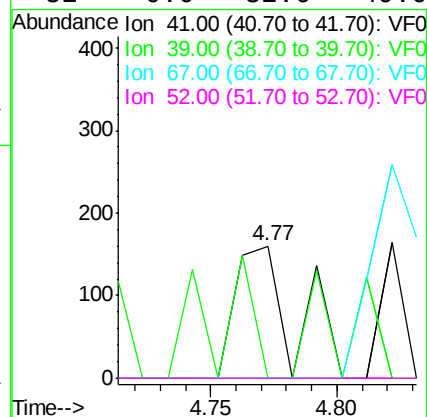
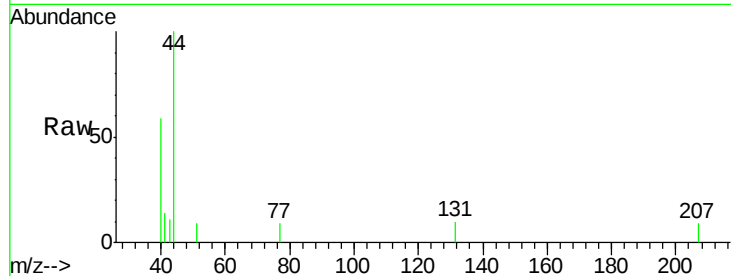




#41
Methacrylonitrile
Concen: 7.246 ug/l
RT: 4.77 min Scan# 420
Delta R.T. 0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

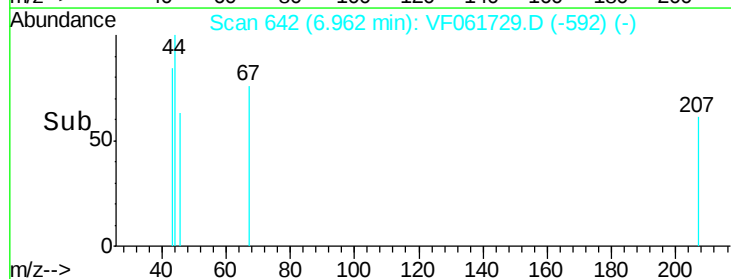
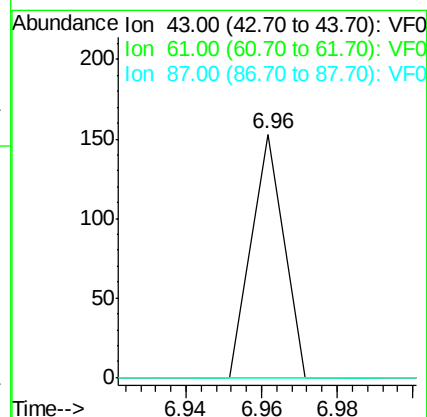
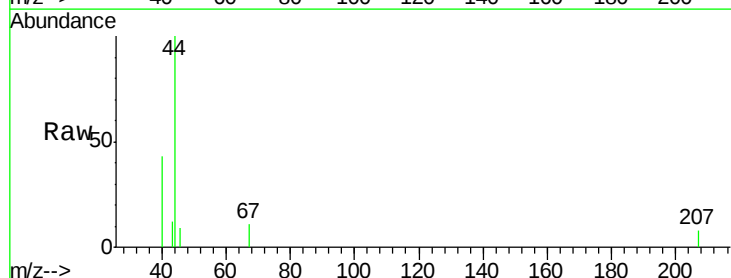
Instrument :
MSVOA_F
ClientSampleId :
OK-03-022219-A

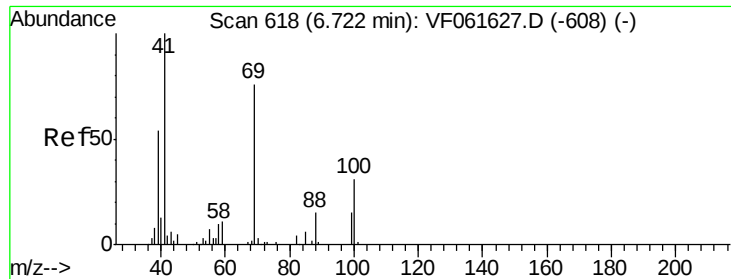
Tot Ion:	41	Resp:	263
Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.3	67.9#
67	0.0	49.3	73.9#
52	0.0	32.6	49.0#



#43
Isopropyl Acetate
Concen: 1.083 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion:	43	Resp:	91
Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.8	38.6#
87	0.0	0.4	0.6#

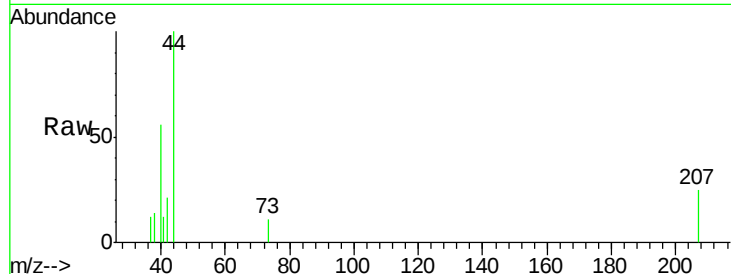




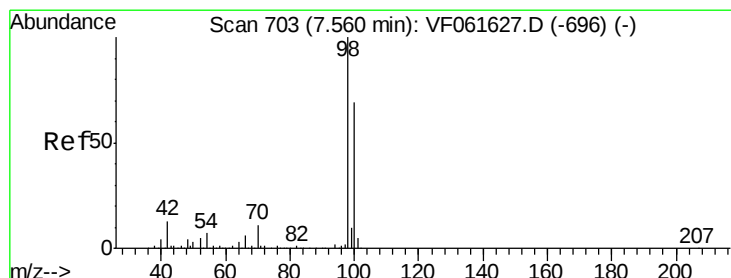
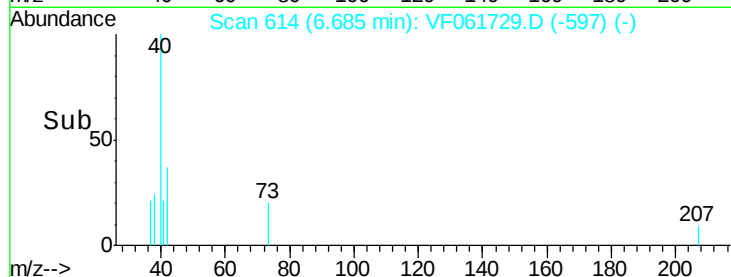
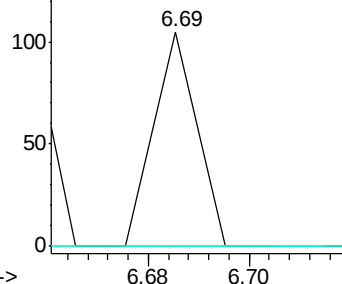
#48
Methyl methacrylate
Concen: 1.226 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.04 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :
OK-03-022219-A

Tot Ion: 41 Resp: 62
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 43.7 65.5#

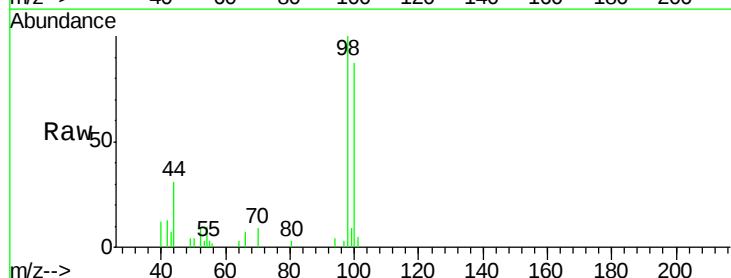


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

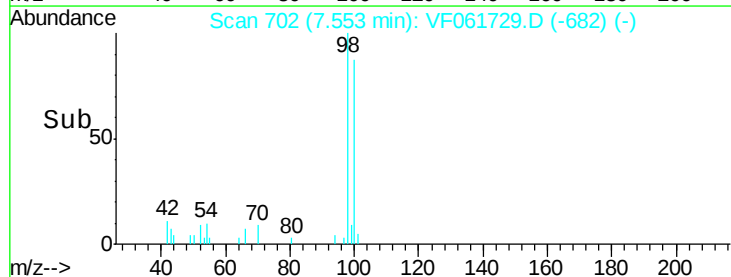
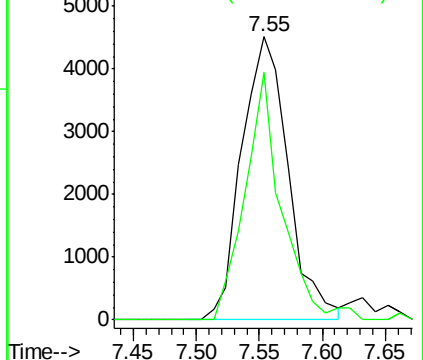


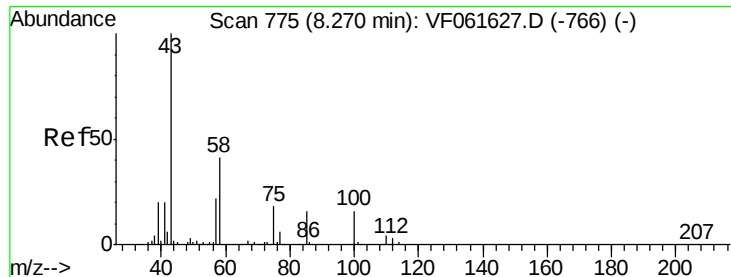
#50
Toluene-d8
Concen: 35.111 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion: 98 Resp: 11561
Ion Ratio Lower Upper
98 100
100 87.5 55.4 83.2#



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: 5.598 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

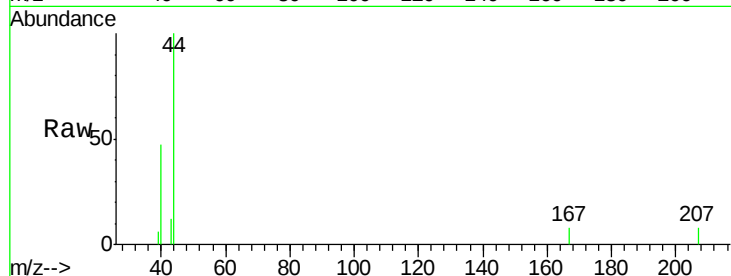
OK-03-022219-A

Tot Ion: 43 Resp: 336

Ion Ratio Lower Upper

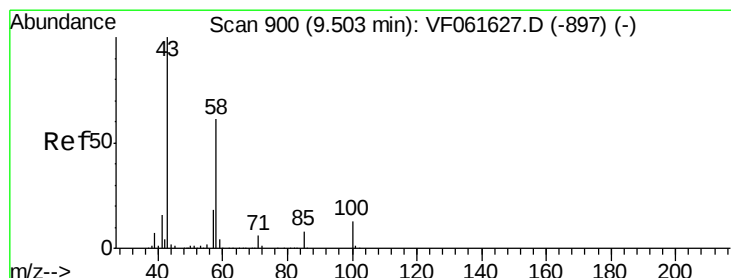
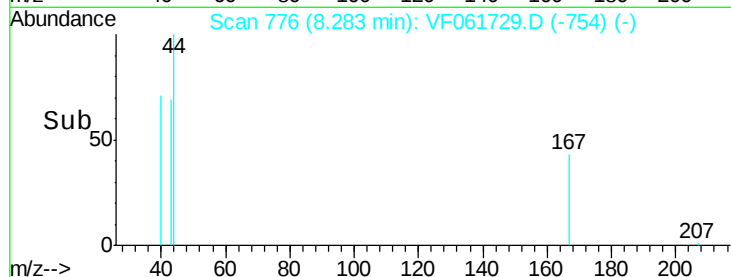
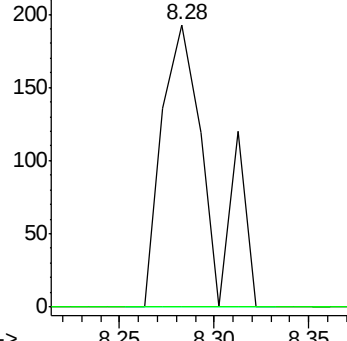
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 4.967 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.00 min

Lab File: VF061729.D

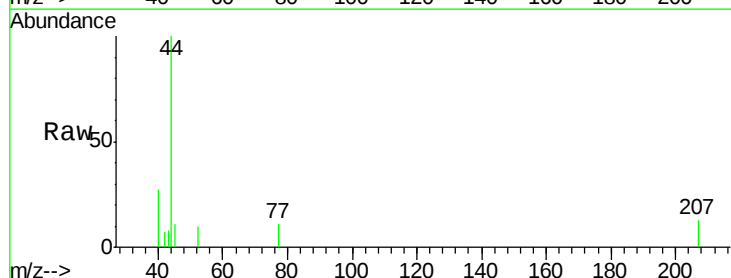
Acq: 25 Feb 2019 14:40

Tgt Ion: 43 Resp: 209

Ion Ratio Lower Upper

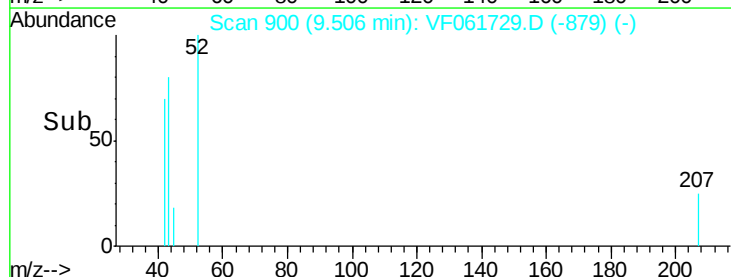
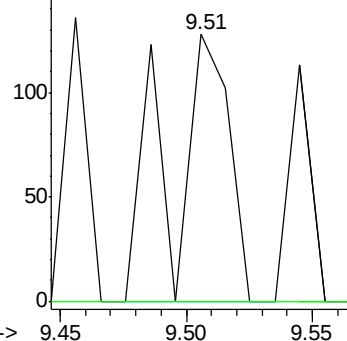
43 100

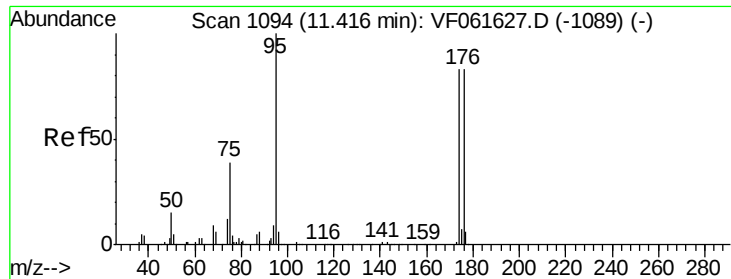
58 0.0 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 19.958 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

OK-03-022219-A

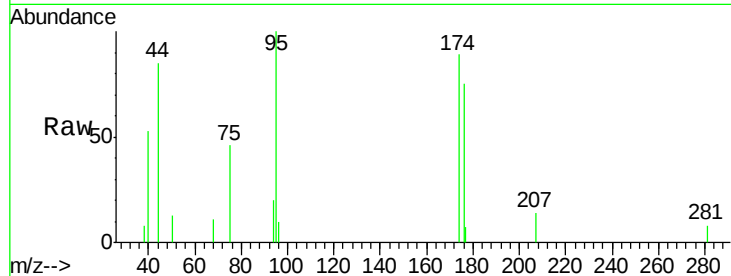
Tot Ion: 95 Resp: 2659

Ion Ratio Lower Upper

95 100

174 88.9 0.0 165.8

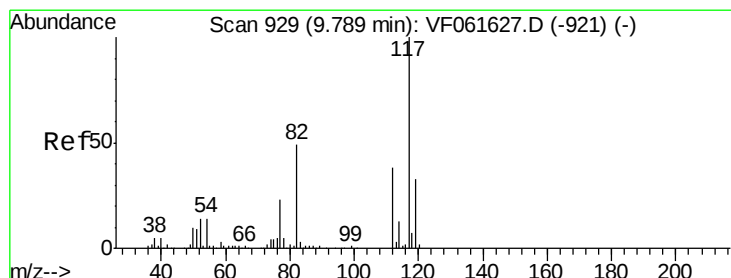
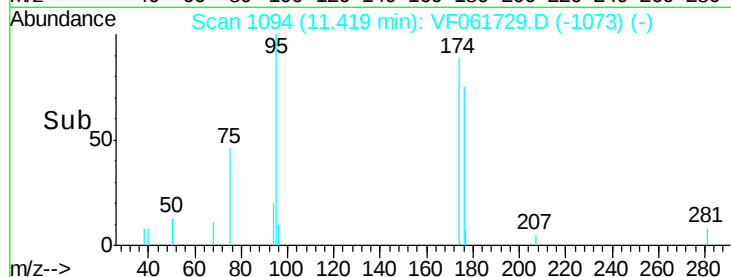
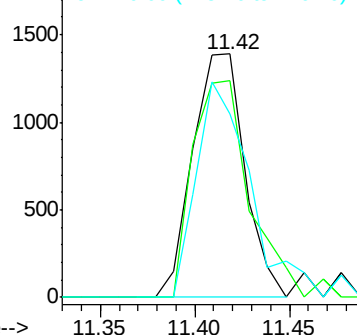
176 75.1 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF061627.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061627.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061627.D (-1089) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.01 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

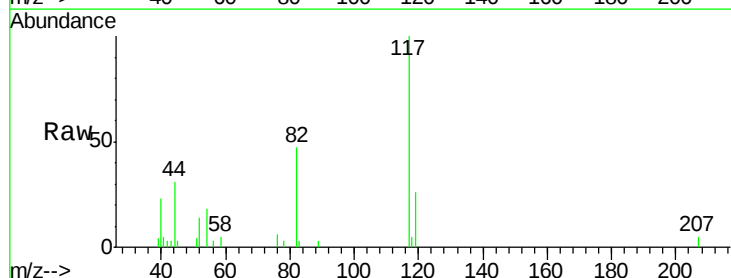
Tgt Ion: 117 Resp: 9520

Ion Ratio Lower Upper

117 100

82 46.7 39.3 58.9

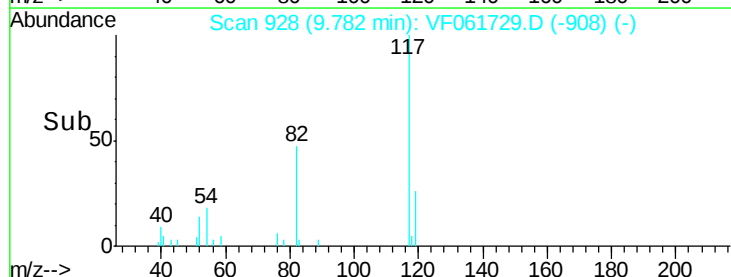
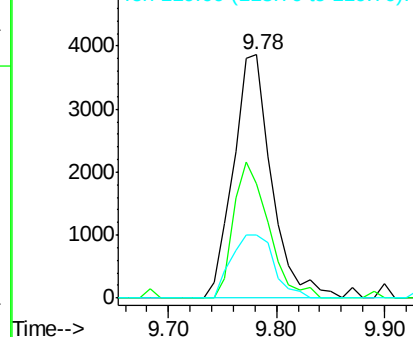
119 25.9 26.6 40.0#

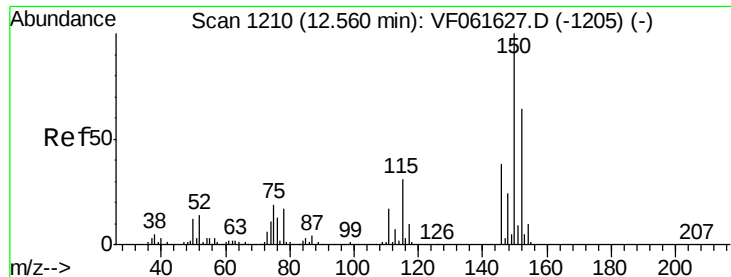


Abundance Ion 117.00 (116.70 to 117.70): VF061627.D (-921) (-)

Ion 82.00 (81.70 to 82.70): VF061627.D (-921) (-)

Ion 119.00 (118.70 to 119.70): VF061627.D (-921) (-)



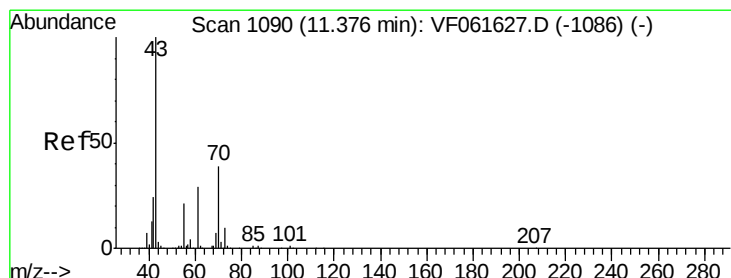
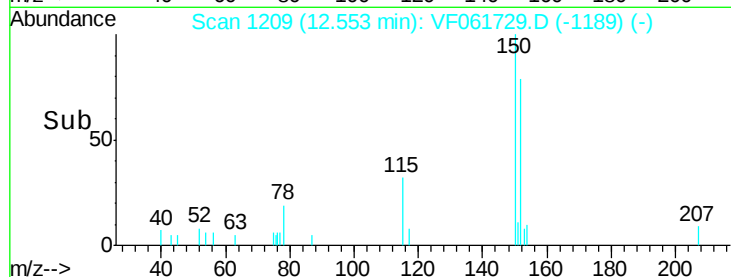
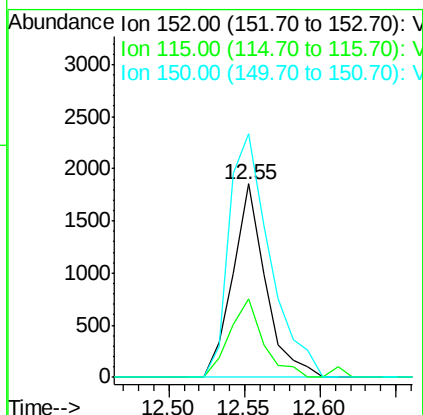
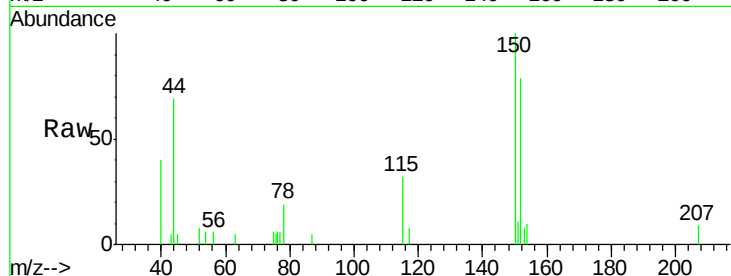


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Instrument :
MSVOA_F
ClientSampleId :
OK-03-022219-A

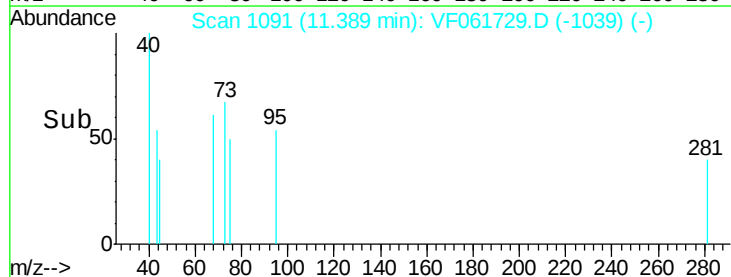
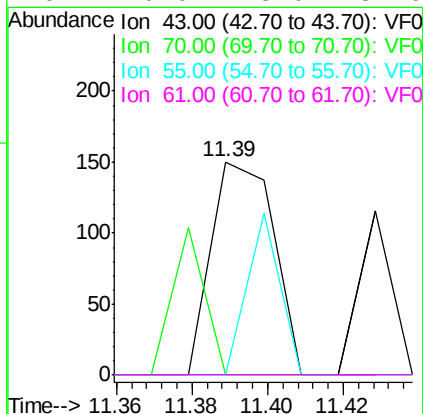
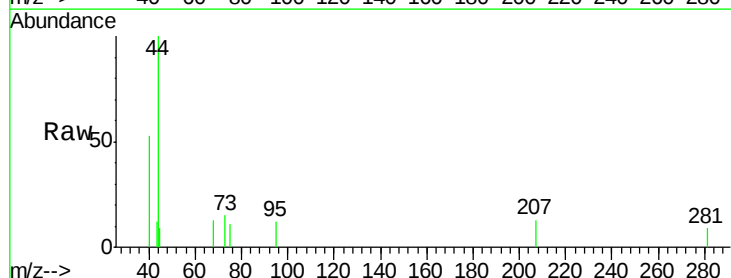
Tot Ion:152 Resp: 2806
Ion Ratio Lower Upper
152 100
115 40.6 24.3 72.8
150 126.1 0.0 312.0

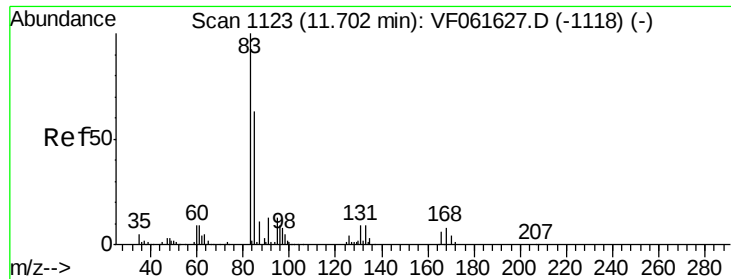


#74

N-ethyl acetate
Concen: 3.545 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VF061729.D
Acq: 25 Feb 2019 14:40

Tgt Ion: 43 Resp: 170
Ion Ratio Lower Upper
43 100
70 0.0 31.5 47.3#
55 0.0 16.7 25.1#
61 0.0 23.0 34.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.676 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. -0.10 min

Lab File: VF061729.D

Acq: 25 Feb 2019 14:40

Instrument :

MSVOA_F

ClientSampleId :

OK-03-022219-A

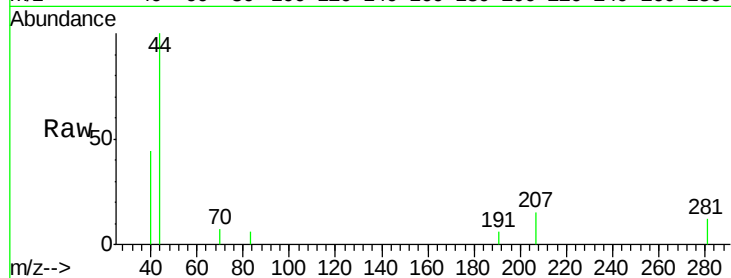
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 4.4 13.2#

85 0.0 31.5 94.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

