

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062544.D
 Acq On : 13 May 2019 16:23
 Operator : FY/SY
 Sample : K2760-02RE
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-0D015-03-005RE

Quant Time: May 14 07:02:58 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	5.07	168	384106	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.80	114	502032	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	432758	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	241017	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.06	65	155381	42.81	ug/l	0.04
Spiked Amount	50.000		Recovery	=	85.62%	
35) Dibromofluoromethane	4.32	113	7160	1.79	ug/l	0.02
Spiked Amount	50.000		Recovery	=	3.58%	
50) Toluene-d8	7.74	98	373734	38.60	ug/l	0.03
Spiked Amount	50.000		Recovery	=	77.20%	
62) 4-Bromofluorobenzene	11.51	95	180535	41.33	ug/l	0.02
Spiked Amount	50.000		Recovery	=	82.66%	

Target Compounds

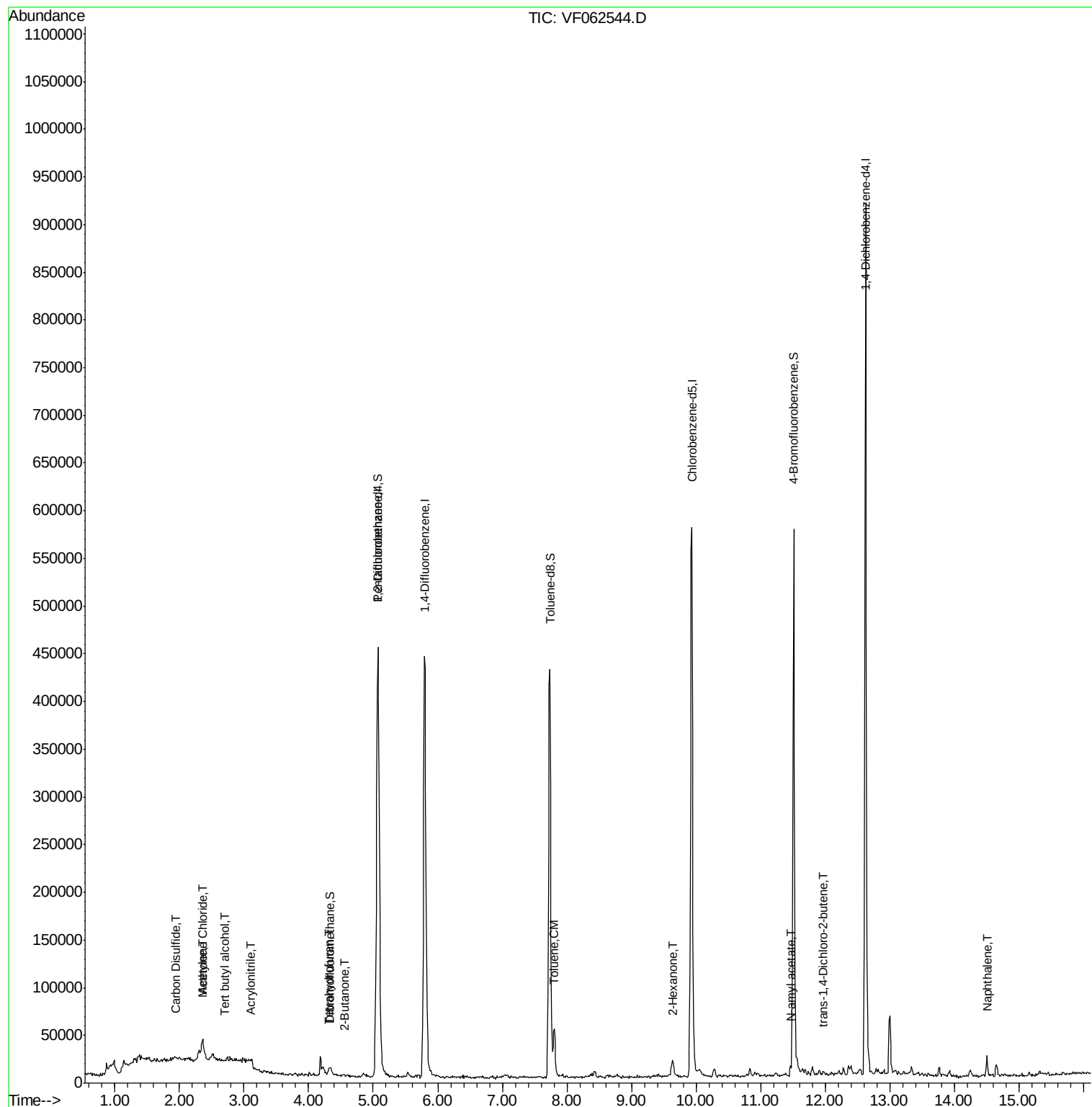
					Qvalue	
5) Bromomethane	1.44	94	546	Below Cal	#	66
11) Tert butyl alcohol	2.70	59	601	2.929	ug/l #	1
13) Acrolein	2.11	56	286	Below Cal	#	1
15) Acrylonitrile	3.09	53	1601	4.120	ug/l #	59
16) Acetone	2.36	43	28944	39.416	ug/l	94
17) Carbon Disulfide	1.95	76	8409	1.310	ug/l #	84
18) Methyl Acetate	2.51	43	3217	Below Cal	#	58
20) Methylene Chloride	2.34	84	4523	1.702	ug/l #	70
25) 2-Butanone	4.55	43	4171	4.521	ug/l	100
29) Tetrahydrofuran	4.31	42	2479	5.847	ug/l #	58
37) Ethyl Acetate	4.30	43	415	Below Cal	#	47
38) Carbon Tetrachloride	4.11	117	61	Below Cal	#	14
49) 1,4-Dioxane	6.90	88	64	Below Cal	#	1
52) Toluene	7.80	92	23765	4.056	ug/l	100
59) 2-Hexanone	9.64	43	11124	10.821	ug/l	76
74) N-amyl acetate	11.46	43	6609	2.155	ug/l #	74
81) trans-1,4-Dichloro-2-buten	11.96	75	820	1.278	ug/l #	5
95) Naphthalene	14.51	128	15720	1.759	ug/l	98

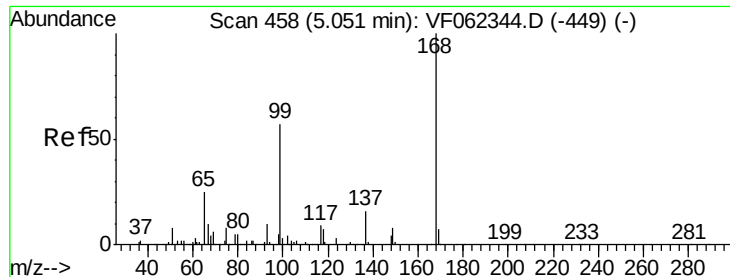
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

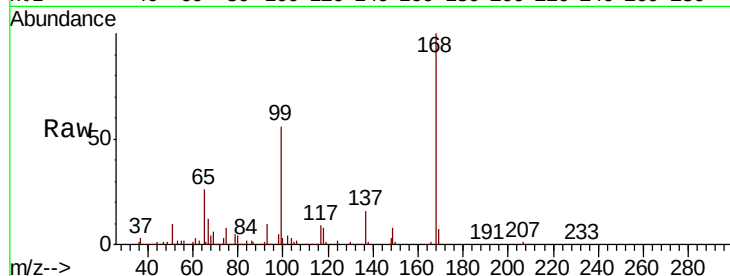
FK-0D015-03-005RE

Tot Ion:168 Resp: 384106

Ion Ratio Lower Upper

168 100

99 55.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

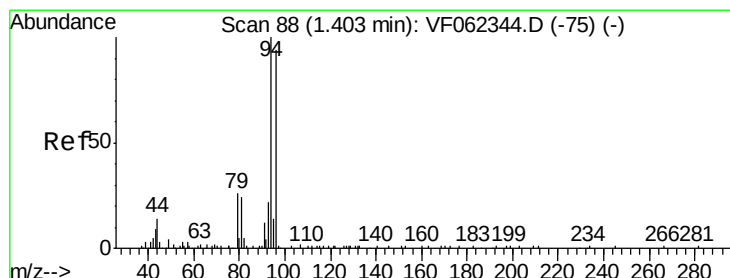
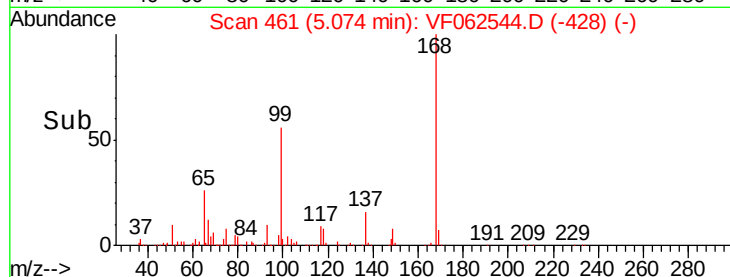
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.44 min Scan# 92

Delta R.T. 0.03 min

Lab File: VF062544.D

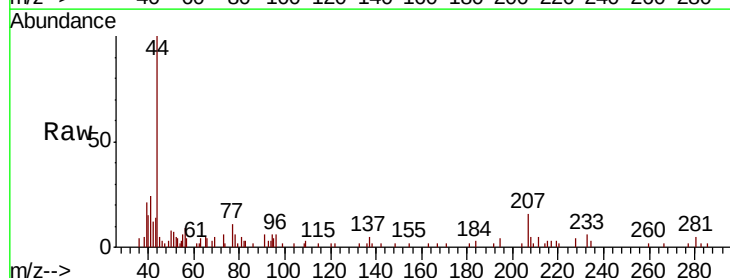
Acq: 13 May 2019 16:23

Tgt Ion: 94 Resp: 546

Ion Ratio Lower Upper

94 100

96 61.4 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.44

500

400

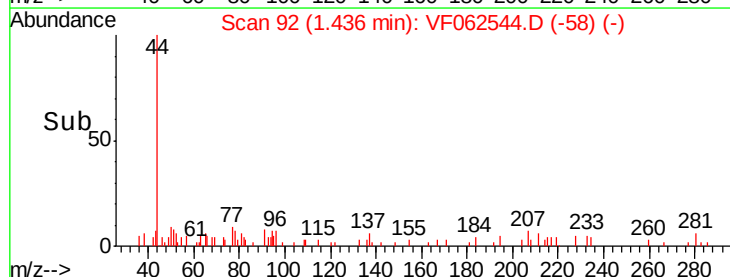
300

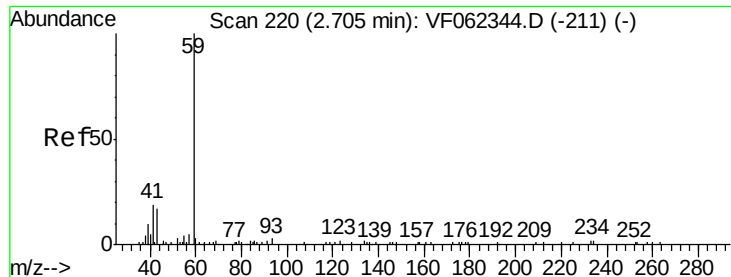
200

100

0

Time--> 1.40 1.42 1.44 1.46



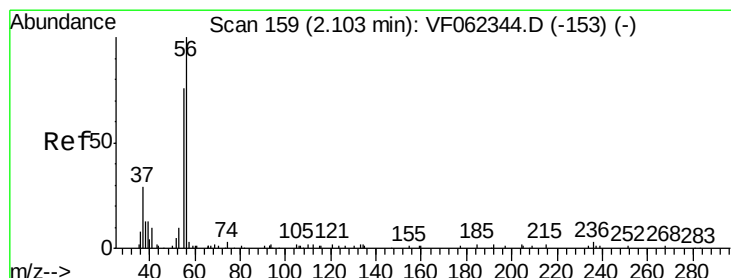
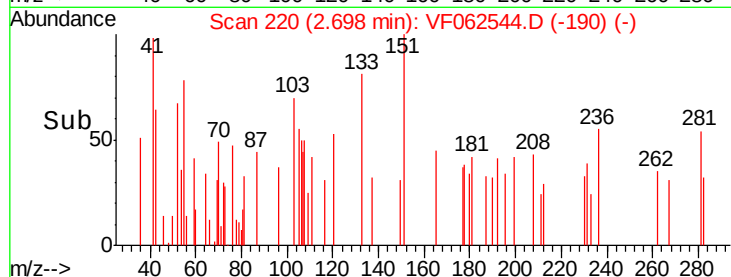
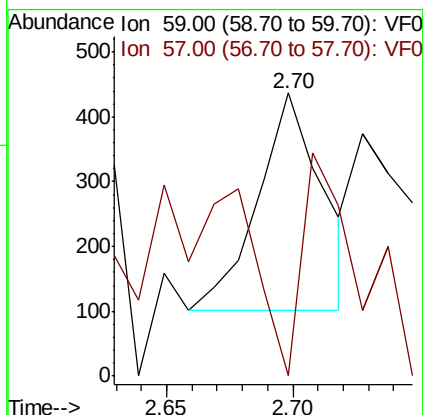
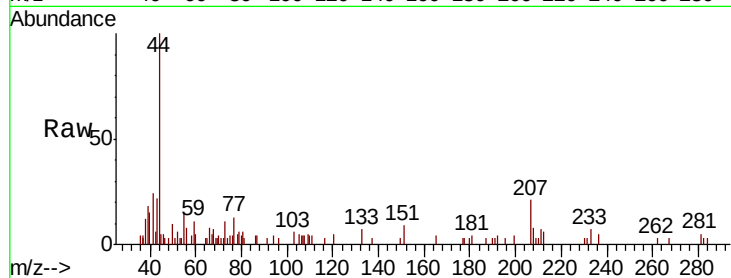


#11

Tert butyl alcohol
 Concen: 2.929 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-0D015-03-005RE

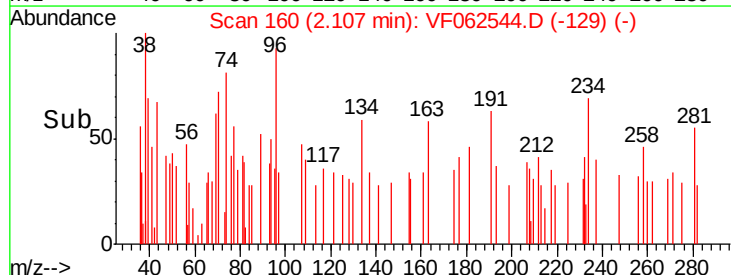
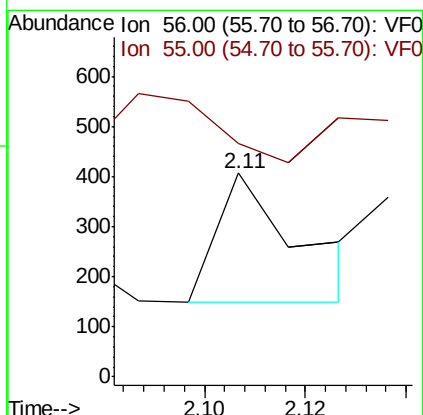
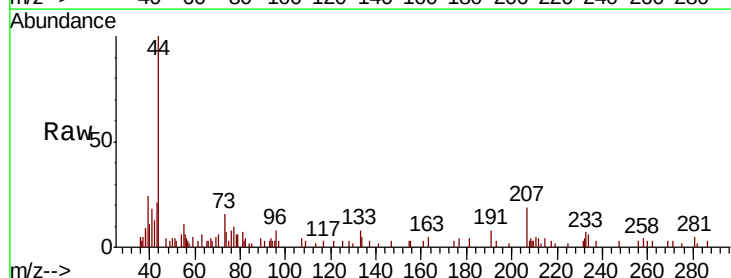
Tot Ion: 59 Resp: 601
 Ion Ratio Lower Upper
 59 100
 57 89.7 9.3 13.9#

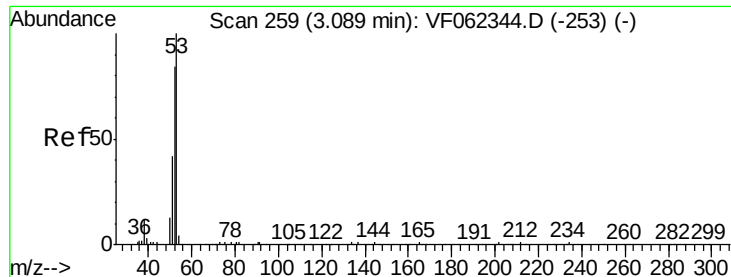


#13

Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 160
 Delta R.T. 0.00 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

Tgt Ion: 56 Resp: 286
 Ion Ratio Lower Upper
 56 100
 55 177.6 58.4 87.6#





#15

Acrylonitrile

Concen: 4.120 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

FK-0D015-03-005RE

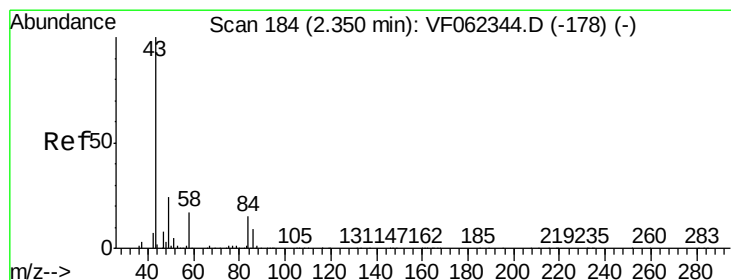
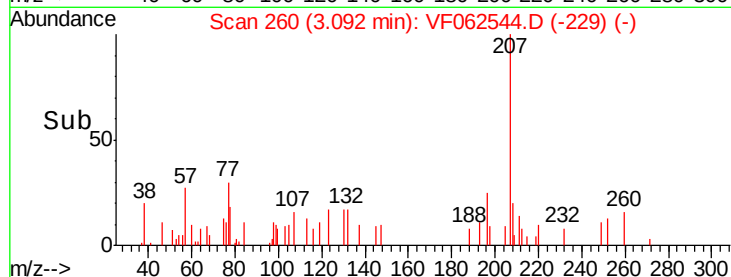
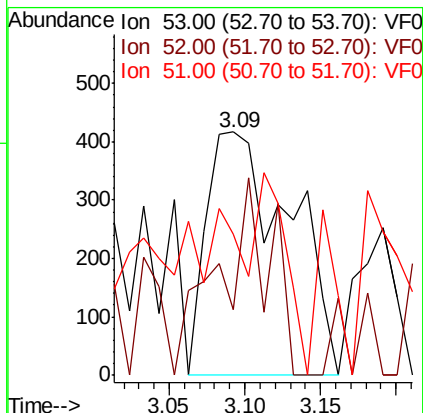
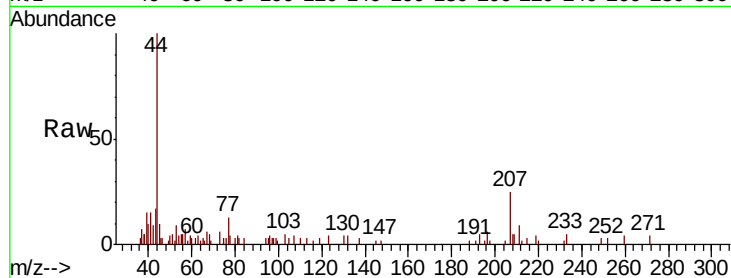
Tot Ion: 53 Resp: 1601

Ion Ratio Lower Upper

53 100

52 49.8 77.2 115.8#

51 70.5 40.6 61.0#



#16

Acetone

Concen: 39.416 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062544.D

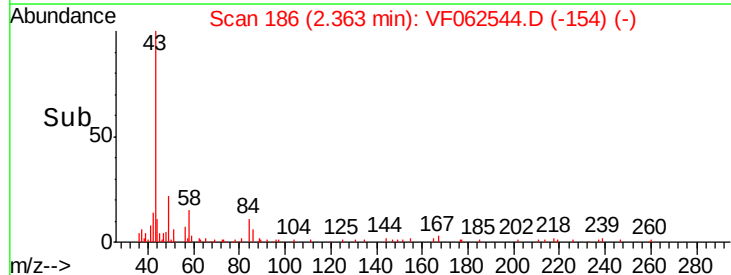
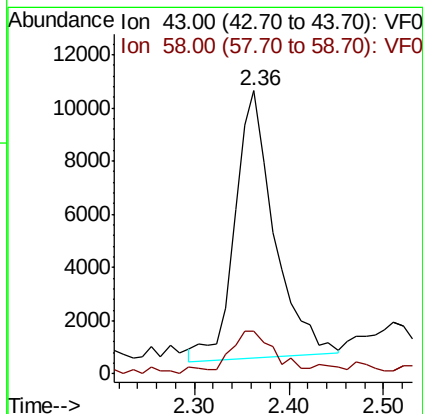
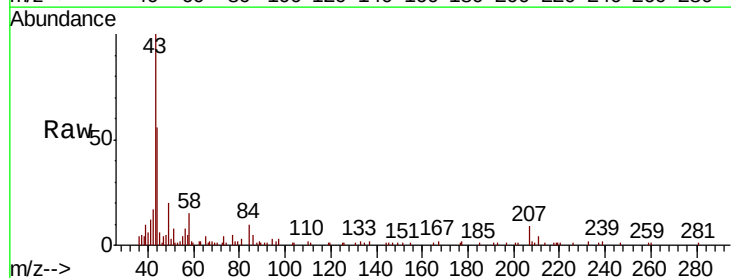
Acq: 13 May 2019 16:23

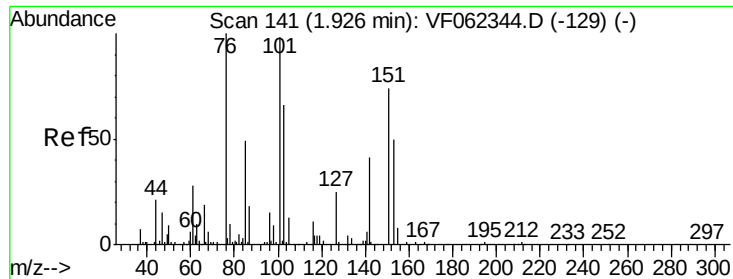
Tgt Ion: 43 Resp: 28944

Ion Ratio Lower Upper

43 100

58 13.9 13.1 19.7





#17

Carbon Disulfide

Concen: 1.310 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.02 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

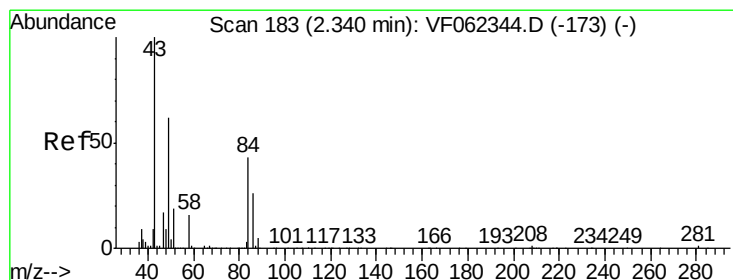
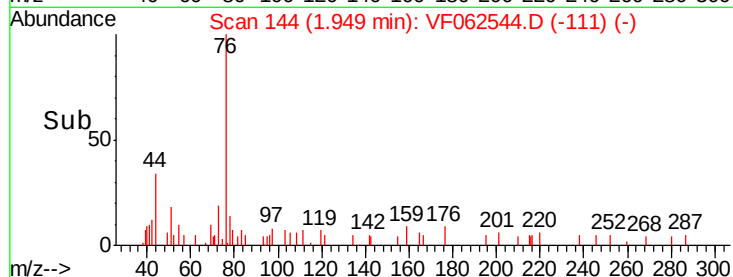
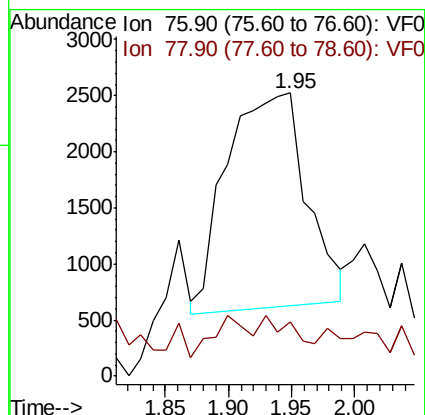
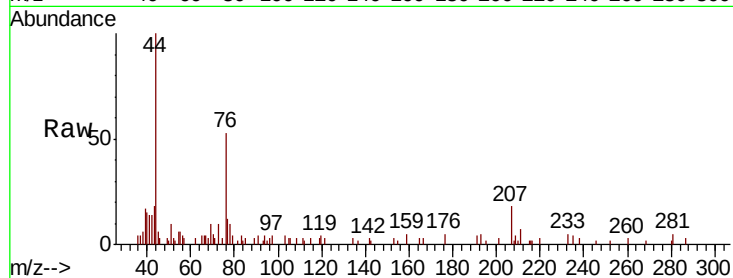
FK-0D015-03-005RE

Tot Ion: 76 Resp: 8409

Ion Ratio Lower Upper

76 100

78 17.2 9.0 13.4#



#20

Methylene Chloride

Concen: 1.702 ug/l

RT: 2.34 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Tgt Ion: 84 Resp: 4523

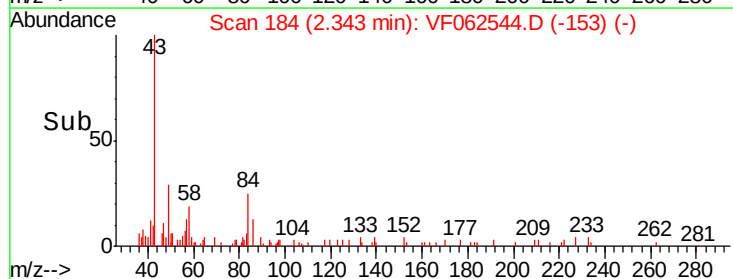
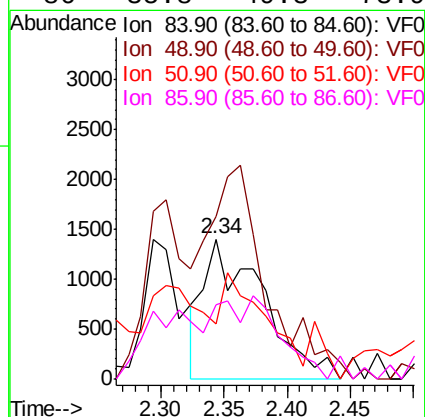
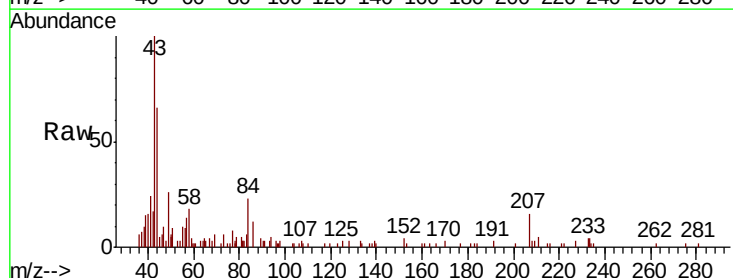
Ion Ratio Lower Upper

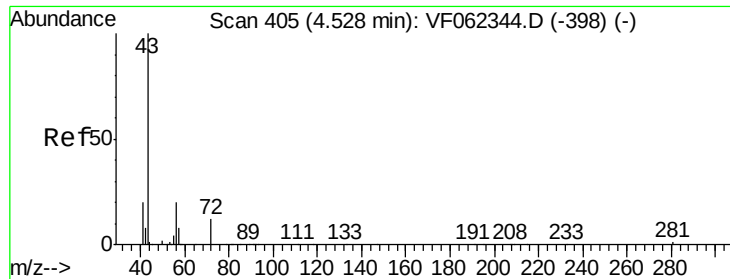
84 100

49 104.0 117.5 176.3#

51 39.0 37.0 55.4

86 35.8 49.3 73.9#





#25

2-Butanone

Concen: 4.521 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

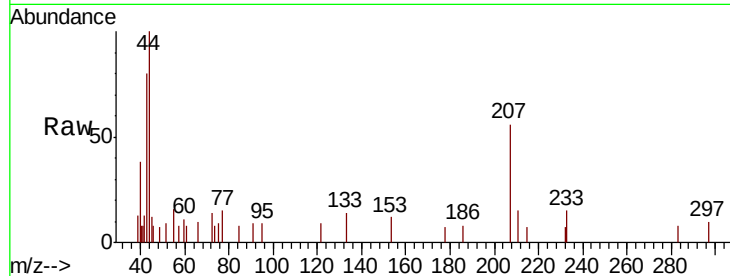
FK-0D015-03-005RE

Tot Ion: 43 Resp: 4171

Ion Ratio Lower Upper

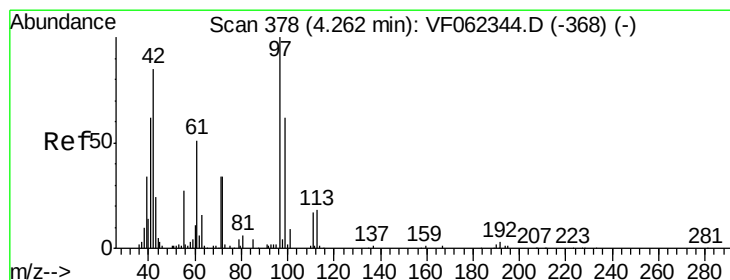
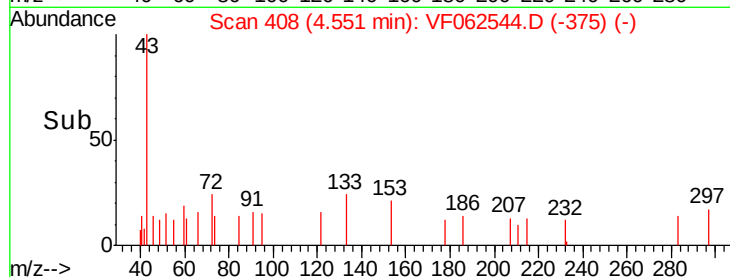
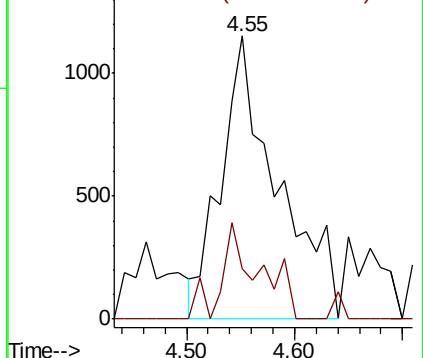
43 100

72 17.8 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: 5.847 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.05 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

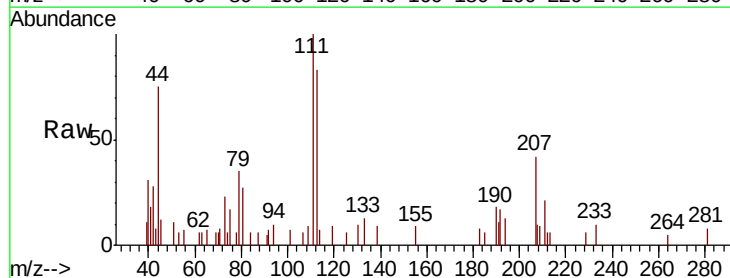
Tgt Ion: 42 Resp: 2479

Ion Ratio Lower Upper

42 100

72 12.6 31.4 47.0#

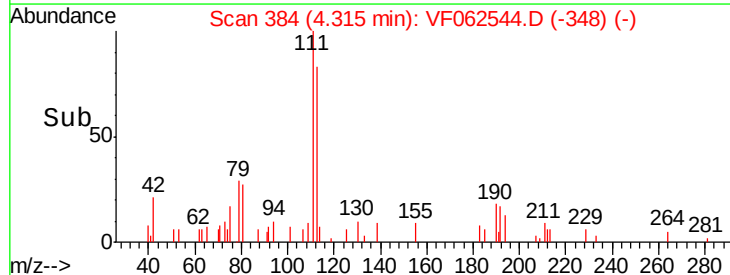
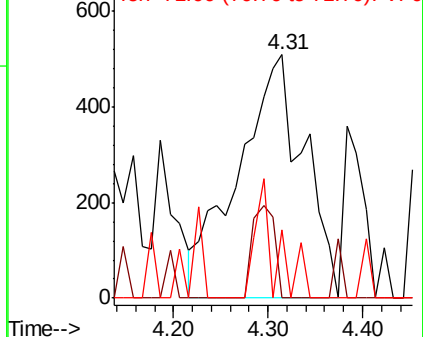
71 15.2 31.7 47.5#

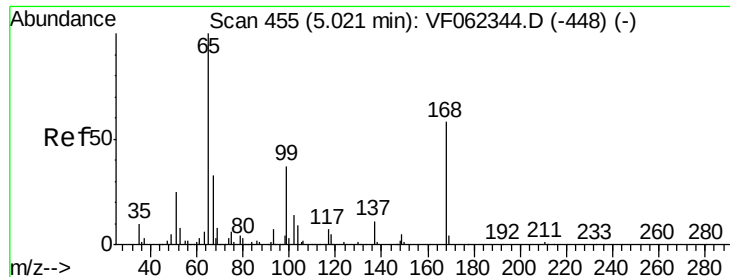


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

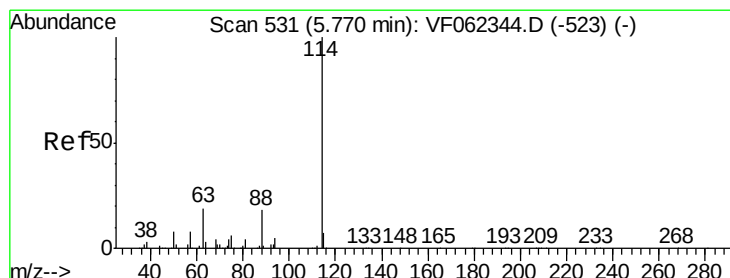
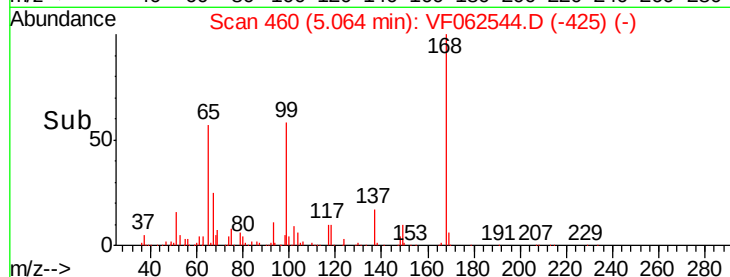
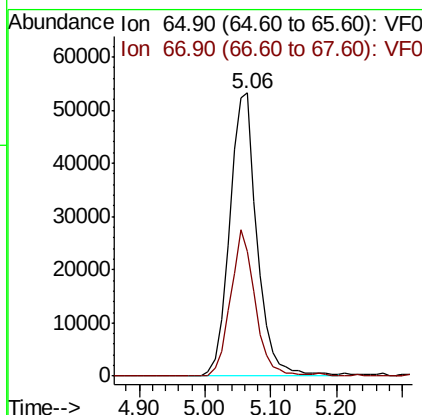
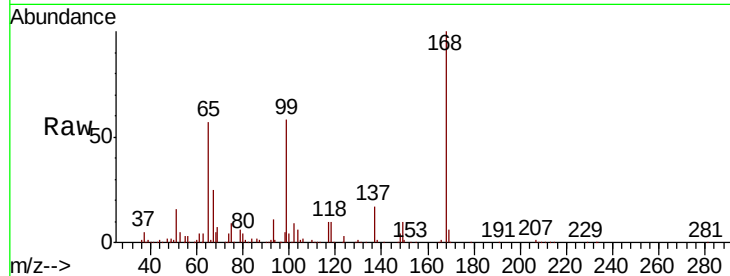




#33
 1,2-Dichloroethane-d4
 Concen: 42.805 ug/l
 RT: 5.06 min Scan# 460
 Delta R.T. 0.04 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

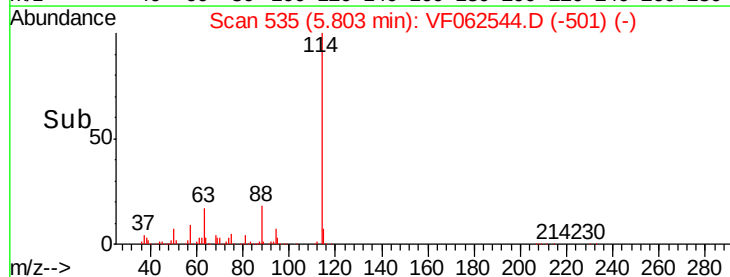
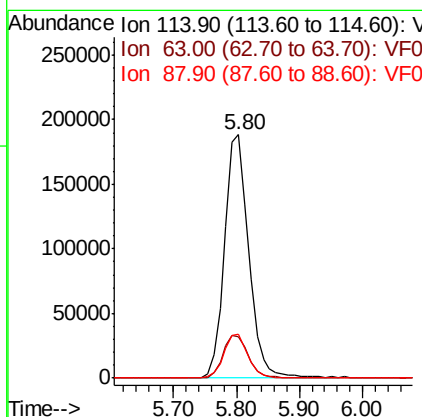
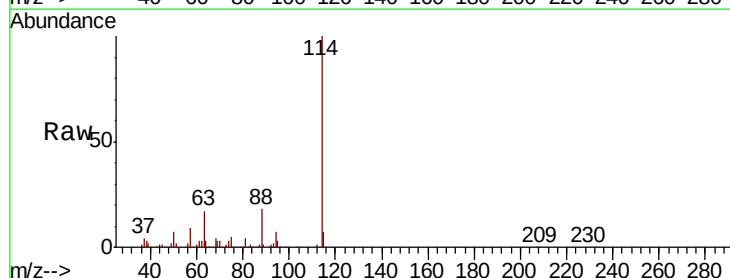
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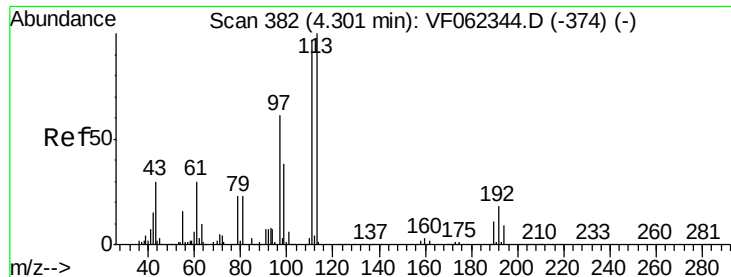
Tot Ion: 65 Resp: 155381
 Ion Ratio Lower Upper
 65 100
 67 46.4 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 535
 Delta R.T. 0.03 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

Tgt Ion: 114 Resp: 502032
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 37.4
 88 18.2 0.0 36.4

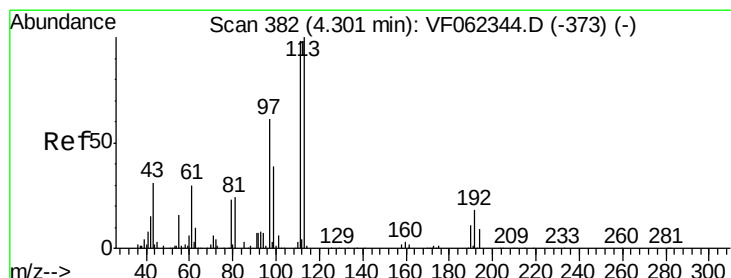
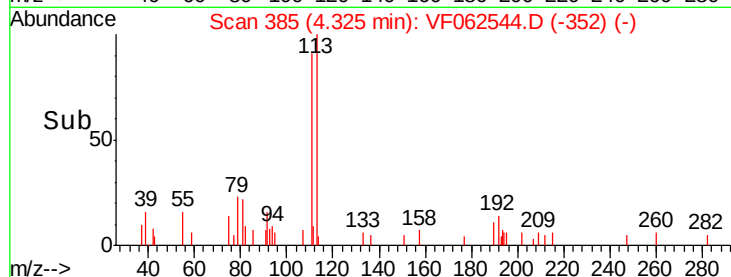
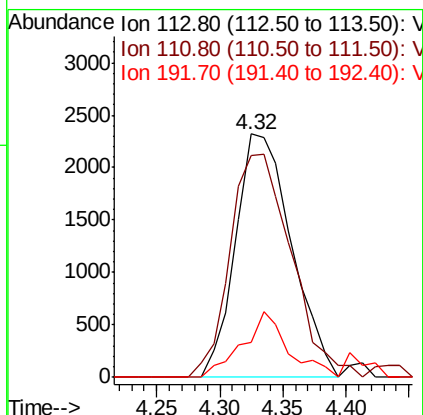
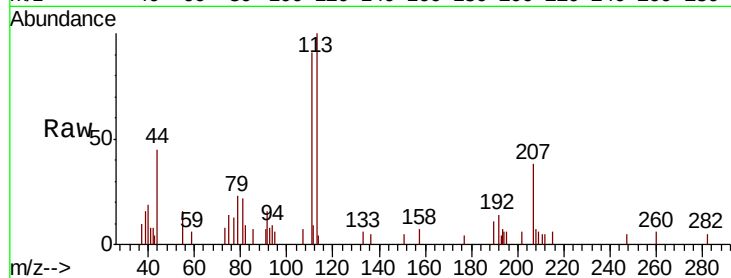




#35
 Dibromofluoromethane
 Concen: 1.790 ug/l
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

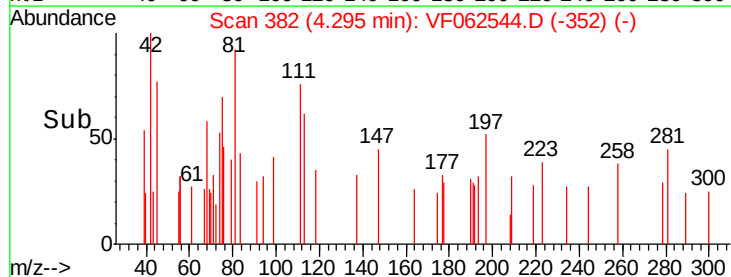
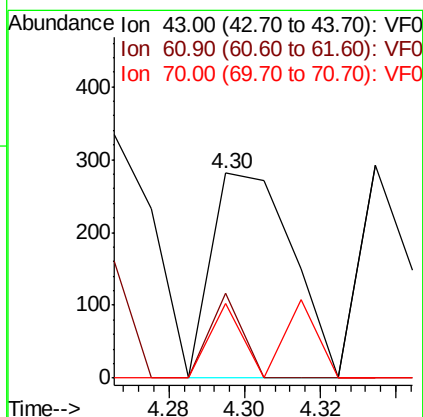
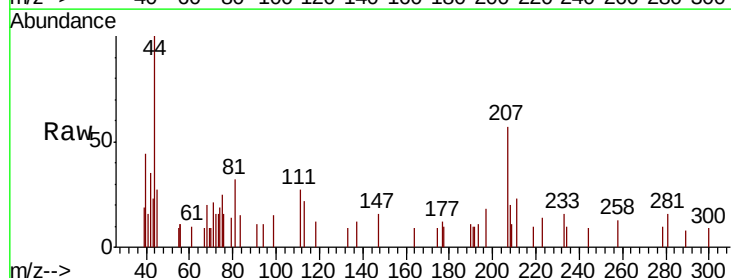
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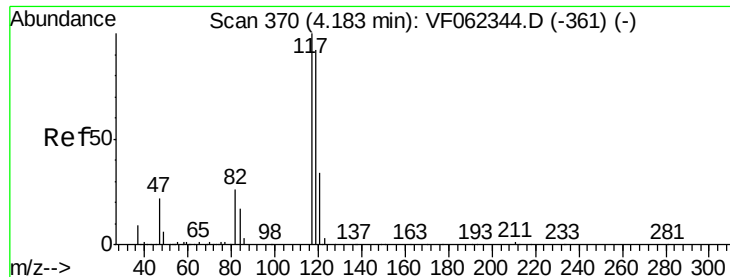
Tot Ion:113 Resp: 7160
 Ion Ratio Lower Upper
 113 100
 111 100.0 79.4 119.0
 192 22.1 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: VF062544.D
 Acq: 13 May 2019 16:23

Tgt Ion: 43 Resp: 415
 Ion Ratio Lower Upper
 43 100
 61 16.6 0.0 0.0#
 70 29.9 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.11 min Scan# 363

Delta R.T. -0.08 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

FK-0D015-03-005RE

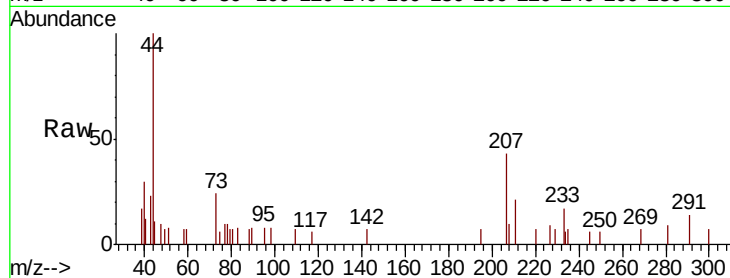
Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

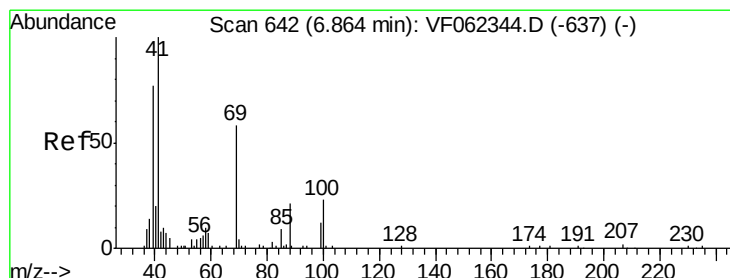
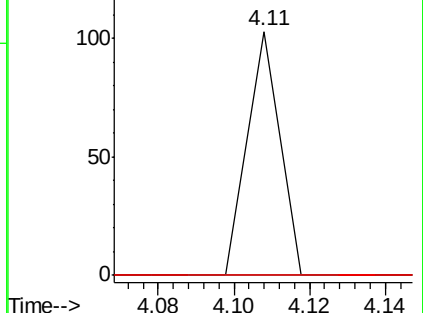
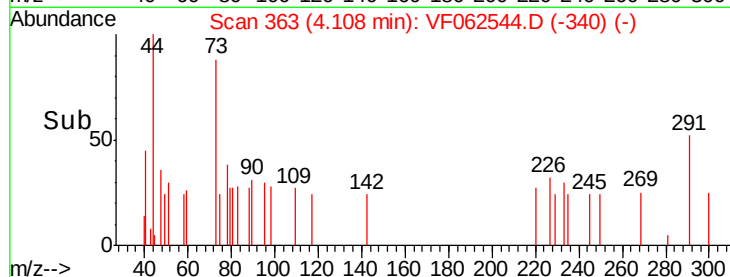
121 0.0 27.4 41.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.90 min Scan# 646

Delta R.T. 0.03 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

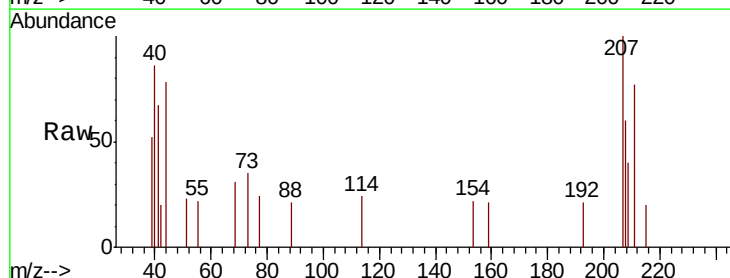
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 565.6 55.6 83.4#

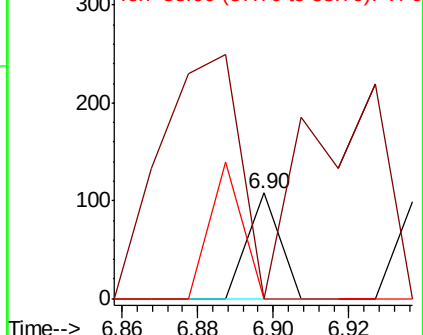
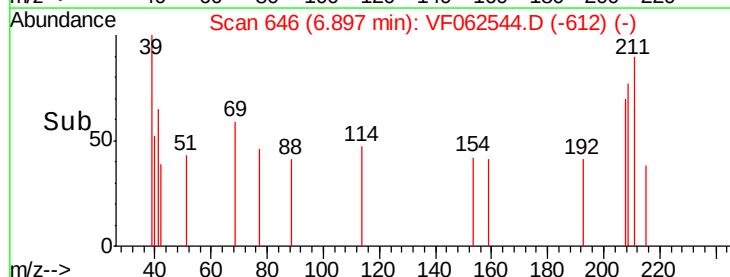
58 129.7 52.8 79.2#

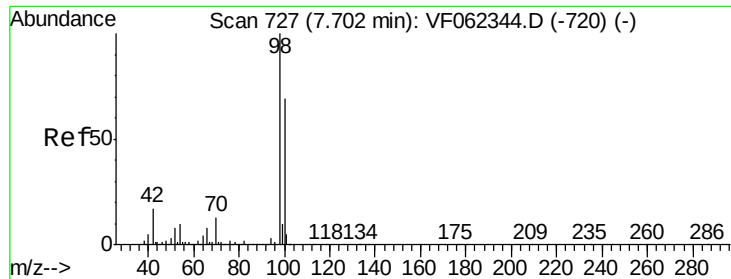


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

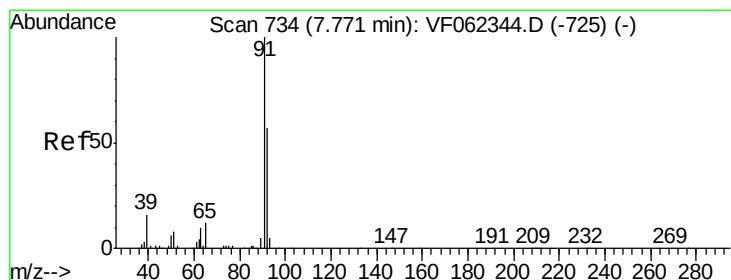
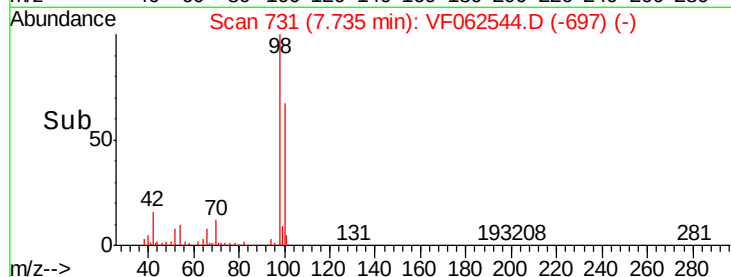
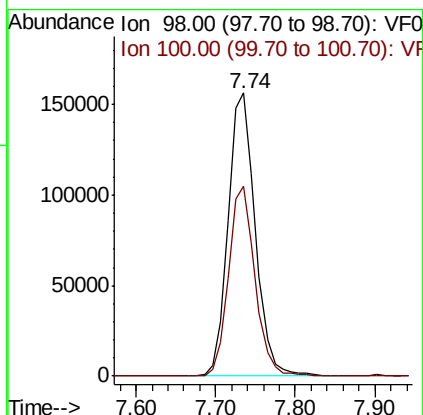
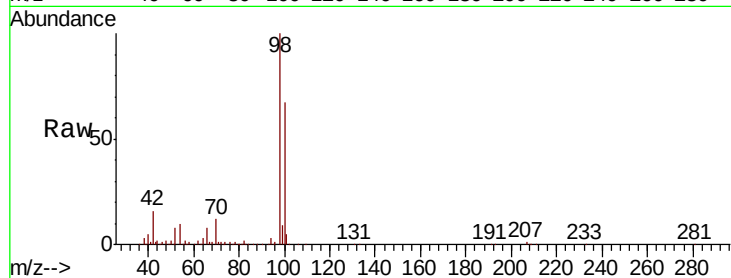




#50
Toluene-d8
Concen: 38.602 ug/l
RT: 7.74 min Scan# 731
Delta R.T. 0.03 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

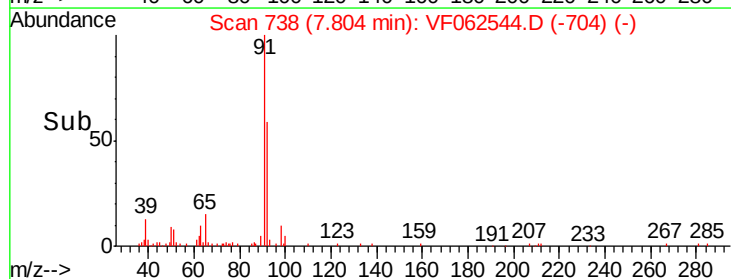
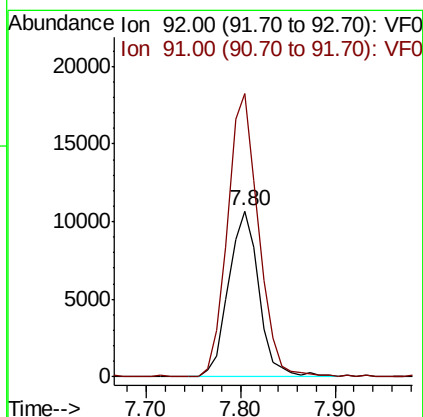
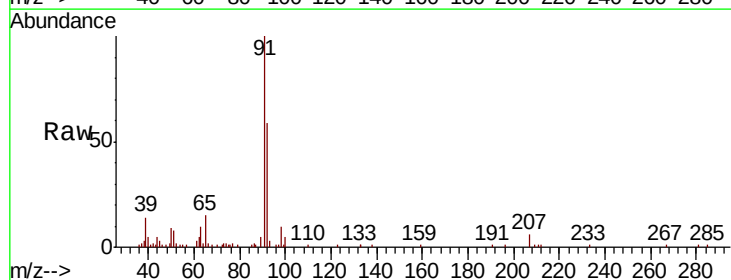
Instrument :
MSVOA_F
ClientSampleId :
FK-0D015-03-005RE

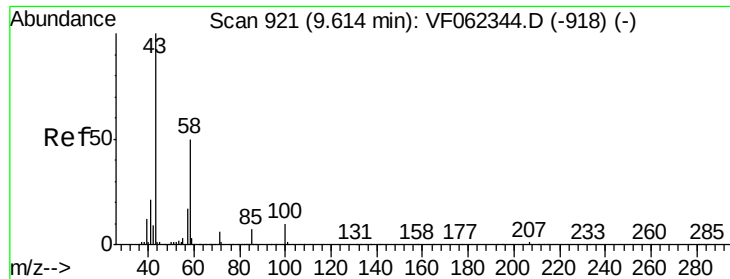
Tot Ion: 98 Resp: 373734
Ion Ratio Lower Upper
98 100
100 65.3 53.3 79.9



#52
Toluene
Concen: 4.056 ug/l
RT: 7.80 min Scan# 738
Delta R.T. 0.03 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

Tgt Ion: 92 Resp: 23765
Ion Ratio Lower Upper
92 100
91 173.7 138.7 208.1

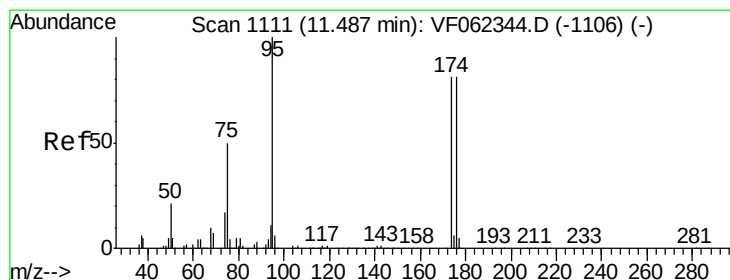
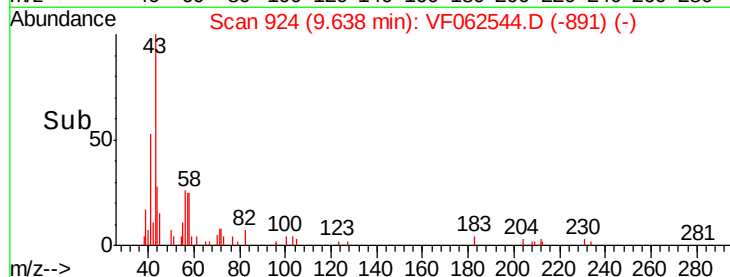
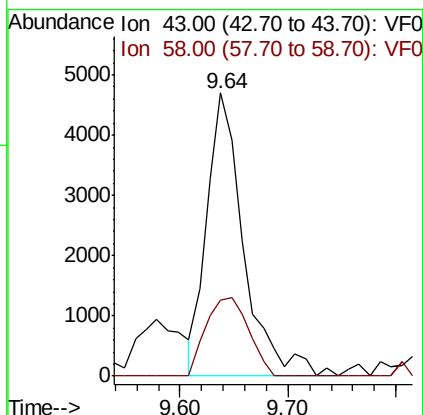
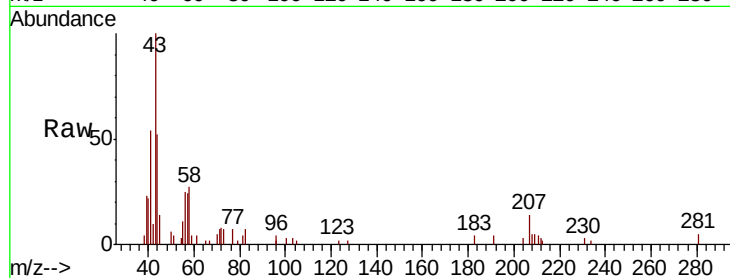




#59
2-Hexanone
Concen: 10.821 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

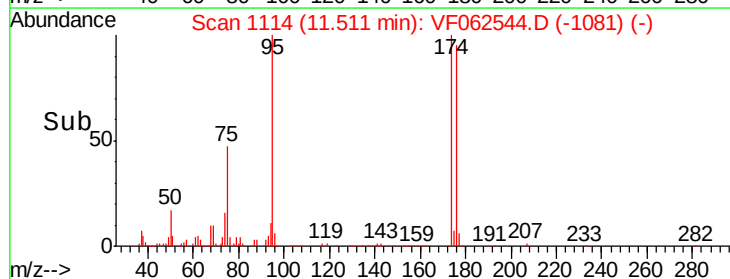
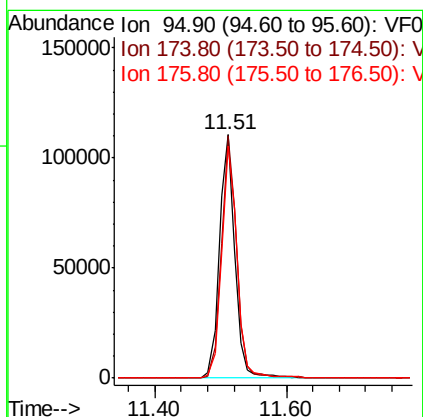
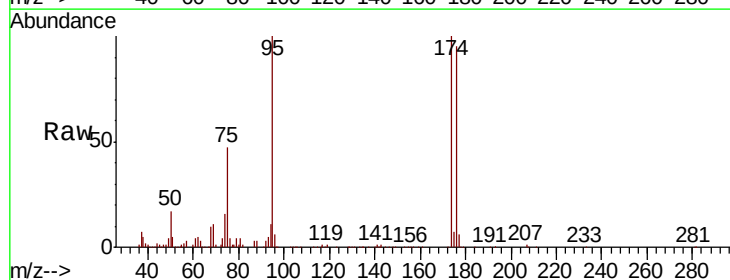
Instrument :
MSVOA_F
ClientSampleId :
FK-0D015-03-005RE

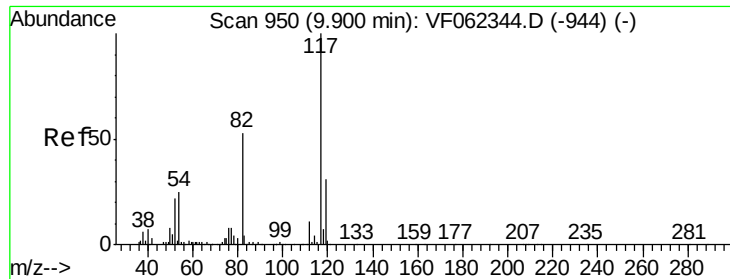
Tot Ion: 43 Resp: 11124
Ion Ratio Lower Upper
43 100
58 32.2 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 41.331 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

Tgt Ion: 95 Resp: 180535
Ion Ratio Lower Upper
95 100
174 98.6 0.0 191.8
176 95.5 0.0 193.2

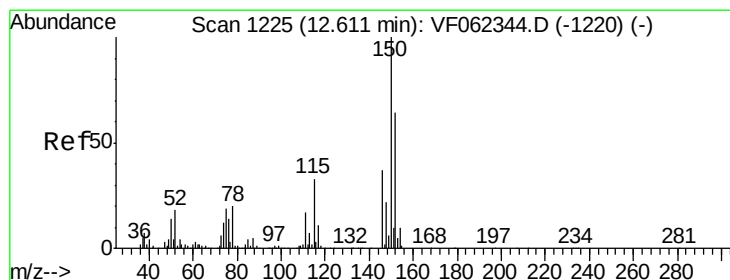
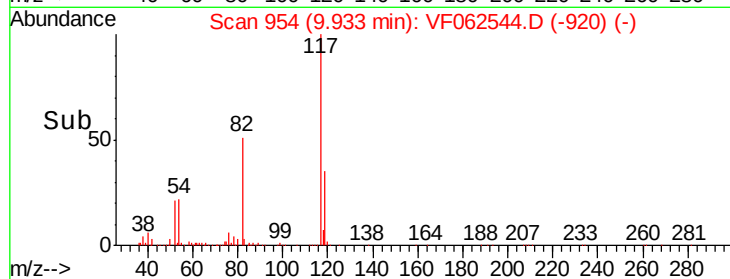
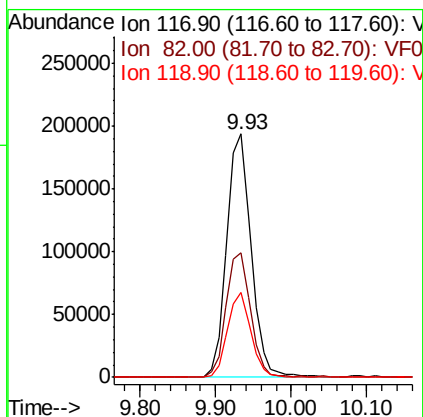
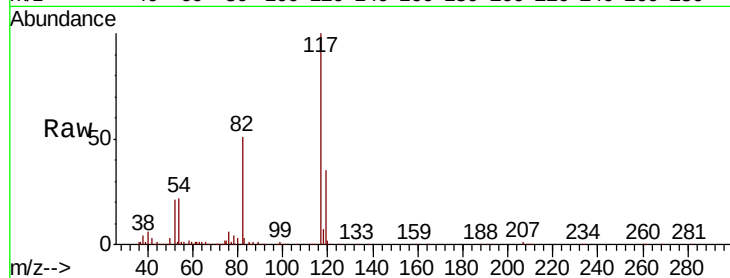




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.03 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

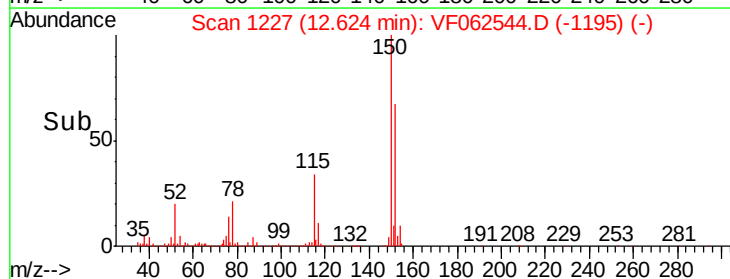
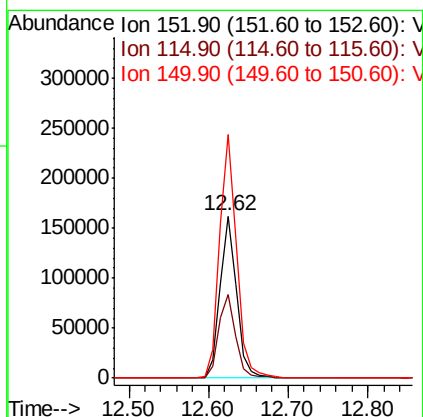
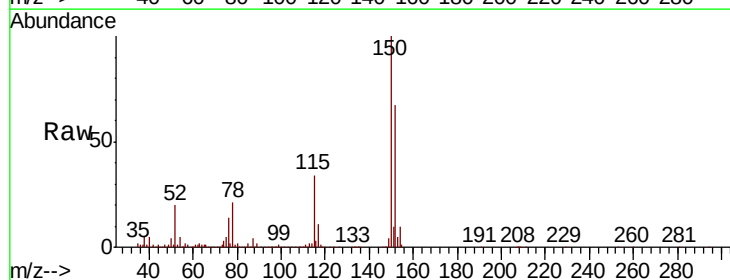
Instrument :
MSVOA_F
ClientSampleId :
FK-0D015-03-005RE

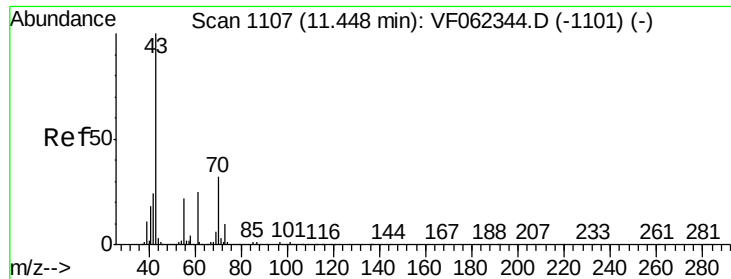
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.3	42.2	63.2
119	34.8	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062544.D
Acq: 13 May 2019 16:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.3	26.4	79.2
150	153.7	0.0	335.0





#74

N-amvl acetate

Concen: 2.155 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

FK-0D015-03-005RE

Tot Ion: 43 Resp: 6609

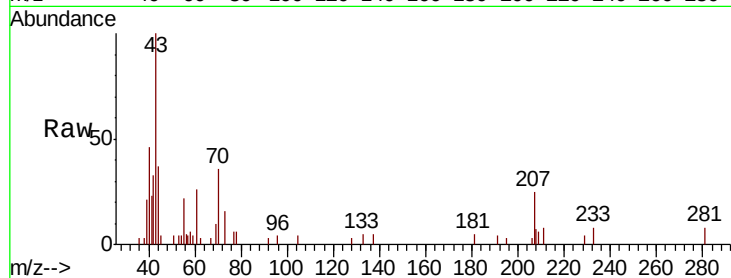
Ion Ratio Lower Upper

43 100

70 25.7 26.5 39.7#

55 30.9 17.8 26.6#

61 0.0 20.2 30.2#

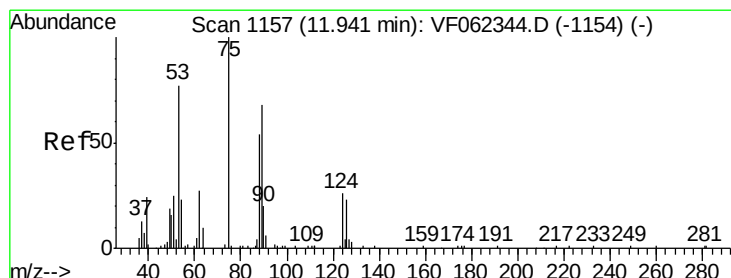
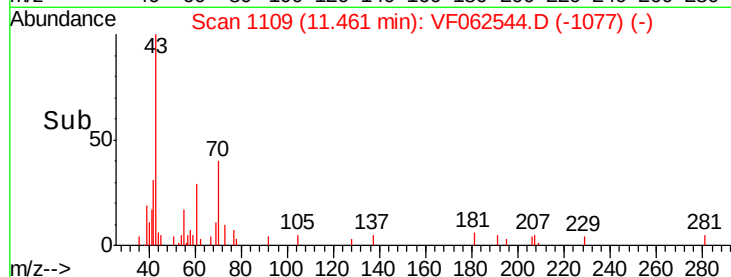
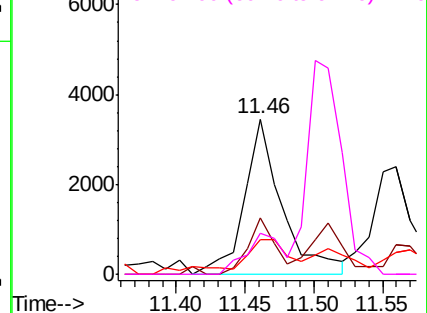


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 1.278 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

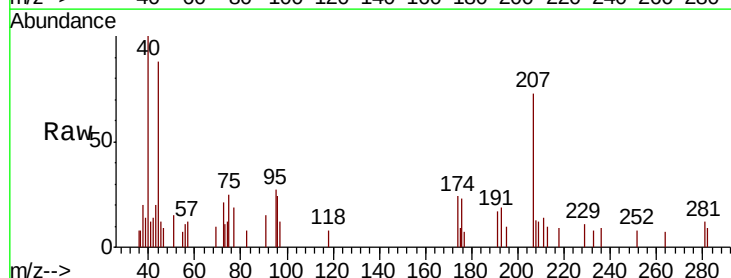
Tgt Ion: 75 Resp: 820

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

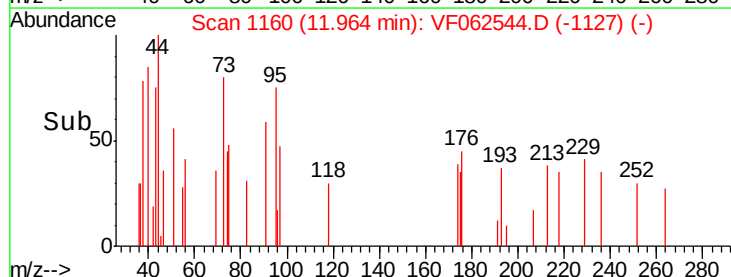
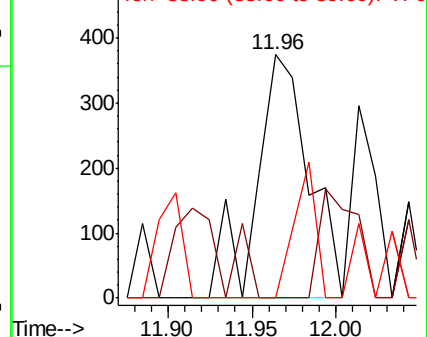
89 0.0 0.0 0.0

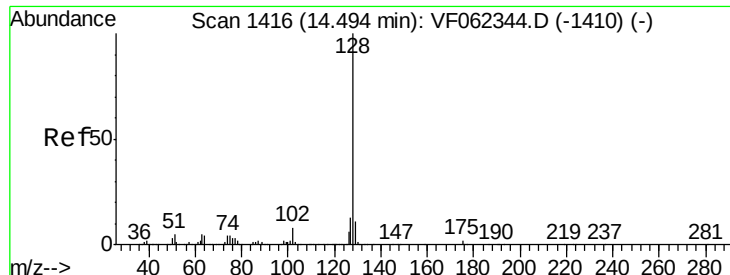


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0





#95

Naphthalene

Concen: 1.759 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062544.D

Acq: 13 May 2019 16:23

Instrument :

MSVOA_F

ClientSampleId :

FK-0D015-03-005RE

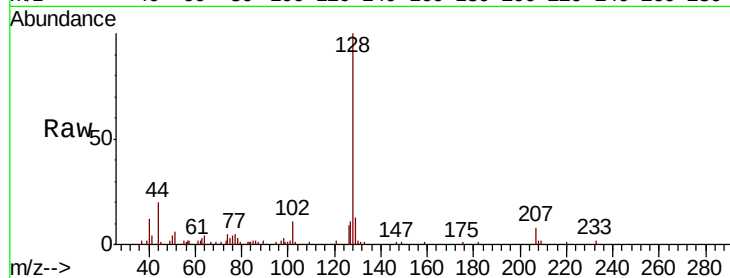
Tot Ion:128 Resp: 15720

Ion Ratio Lower Upper

128 100

127 14.5 10.5 15.7

129 10.4 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

