

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF020819\
 Data File : VF061569.D
 Acq On : 8 Feb 2019 20:40
 Operator : VA/AP
 Sample : K1356-05
 Misc : 7.05g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-03-020819-A

Quant Time: Feb 09 04:33:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	2410	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	3416	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	2622	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	676	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	320	10.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.50%	
35) Dibromofluoromethane	4.12	113	738	27.38	ug/l	0.02
Spiked Amount	50.000		Recovery	=	54.76%	
50) Toluene-d8	7.55	98	2905	39.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.68%	
62) 4-Bromofluorobenzene	11.41	95	824	23.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.76%	

Target Compounds						Qvalue
3) Chloromethane	1.11	50	75	2.160	ug/l #	1
4) Vinyl Chloride	1.14	62	88	2.849	ug/l #	43
5) Bromomethane	1.32	94	351	17.427	ug/l #	2
6) Chloroethane	1.44	64	78	5.699	ug/l #	41
8) Diethyl Ether	1.56	74	62	8.059	ug/l #	1
10) Methyl Iodide	1.95	142	92	2.057	ug/l #	27
11) Tert butyl alcohol	2.68	59	60	47.640	ug/l #	1
12) 1,1-Dichloroethene	1.79	96	83	3.872	ug/l #	1
13) Acrolein	1.84	56	120	116.380	ug/l	88
14) Allyl chloride	2.09	41	138	Below Cal	#	57
15) Acrylonitrile	2.95	53	647	200.552	ug/l #	14
16) Acetone	2.25	43	352	58.970	ug/l #	61
17) Carbon Disulfide	1.70	76	154	2.304	ug/l #	69
18) Methyl Acetate	2.33	43	143	12.080	ug/l #	61
19) Methyl tert-butyl Ether	2.42	73	63	1.311	ug/l #	59
20) Methylene Chloride	2.19	84	130	4.828	ug/l #	1
21) trans-1,2-Dichloroethene	2.31	96	263	11.152	ug/l #	7
22) Diisopropyl ether	2.78	45	551	7.224	ug/l #	7
23) Vinyl Acetate	3.16	43	137	7.225	ug/l #	78
24) 1,1-Dichloroethane	2.87	63	59	1.232	ug/l #	85
25) 2-Butanone	4.31	43	88	8.865	ug/l #	57
26) 2,2-Dichloropropane	3.52	77	138	4.692	ug/l #	61
27) cis-1,2-Dichloroethene	3.39	96	67	1.925	ug/l	1
28) Bromochloromethane	3.71	49	91	4.229	ug/l #	8
29) Tetrahydrofuran	4.04	42	128	29.947	ug/l #	38
31) Cyclohexane	3.68	56	61	1.276	ug/l #	13
32) 1,1,1-Trichloroethane	4.19	97	63	1.330	ug/l #	22
37) Ethyl Acetate	4.10	43	119	7.516	ug/l #	5
39) Methylcyclohexane	5.43	83	65	1.514	ug/l #	15
41) Methacrylonitrile	4.75	41	229	27.183	ug/l #	29
43) Isopropyl Acetate	6.95	43	98	4.932	ug/l #	51
45) 1,2-Dichloropropane	6.16	63	73	3.156	ug/l #	44
47) Bromodichloromethane	6.48	83	69	1.813	ug/l #	24
48) Methyl methacrylate	6.70	41	74	5.546	ug/l #	19

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

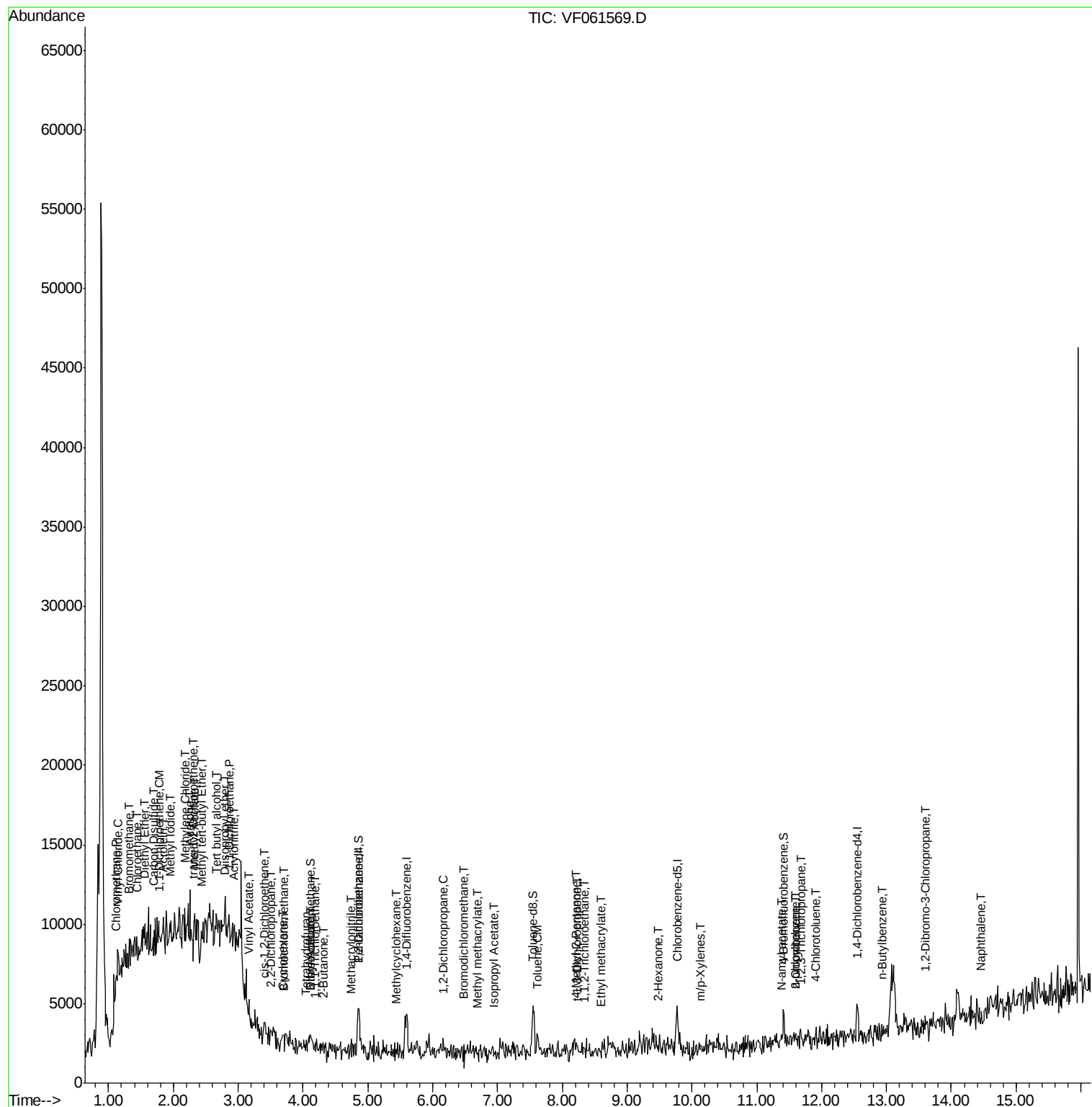
51) 4-Methyl-2-Pentanone	8.21	43	135	9.242	ug/l #	39
52) Toluene	7.62	92	554	9.545	ug/l #	29
53) t-1,3-Dichloropropene	8.23	75	66	2.184	ug/l #	44
55) 1,1,2-Trichloroethane	8.34	97	80	4.854	ug/l #	14
56) Ethyl methacrylate	8.59	69	59	3.077	ug/l #	21
59) 2-Hexanone	9.47	43	247	24.248	ug/l #	26
68) m/p-Xylenes	10.13	106	134	3.824	ug/l #	1
74) N-amyl acetate	11.37	43	102	7.846	ug/l #	47
76) 1,2,3-Trichloropropane	11.69	75	66	9.378	ug/l #	42
78) n-propylbenzene	11.60	91	64	1.073	ug/l #	54
79) 2-Chlorotoluene	11.60	91	64	1.678	ug/l #	45
82) 4-Chlorotoluene	11.92	91	62	1.611	ug/l #	43
89) n-Butylbenzene	12.93	91	87	1.648	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.60	75	65	37.415	ug/l #	1
95) Naphthalene	14.45	128	392	13.560	ug/l #	71

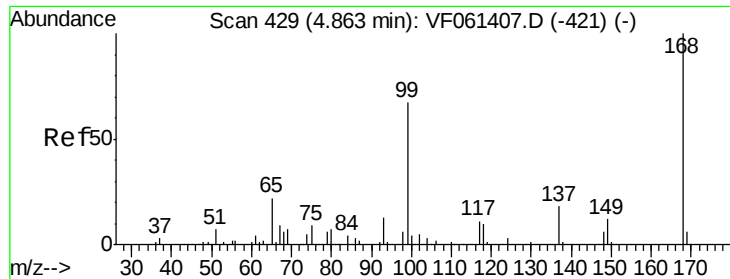
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

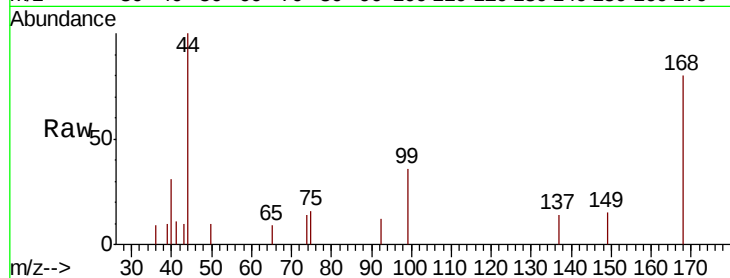
SU-03-020819-A

Tgt Ion:168 Resp: 2410

Ion Ratio Lower Upper

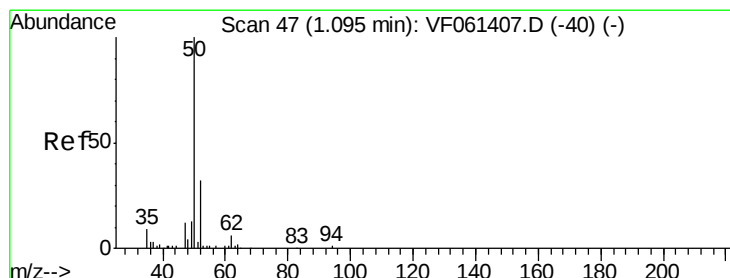
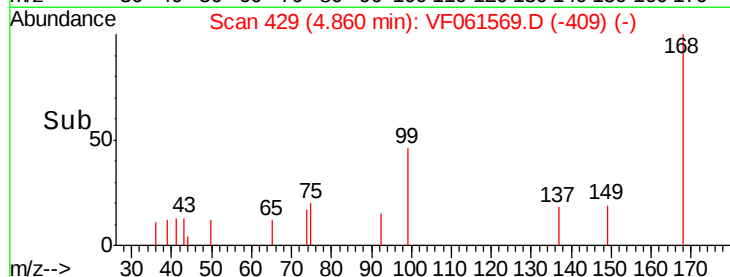
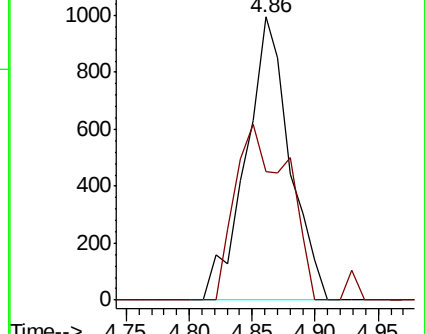
168 100

99 45.6 53.5 80.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 2.160 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.02 min

Lab File: VF061569.D

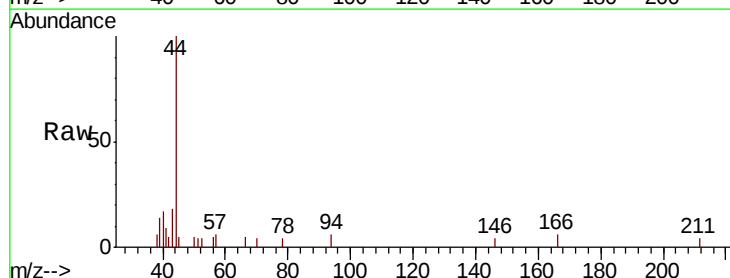
Acq: 8 Feb 2019 20:40

Tgt Ion: 50 Resp: 75

Ion Ratio Lower Upper

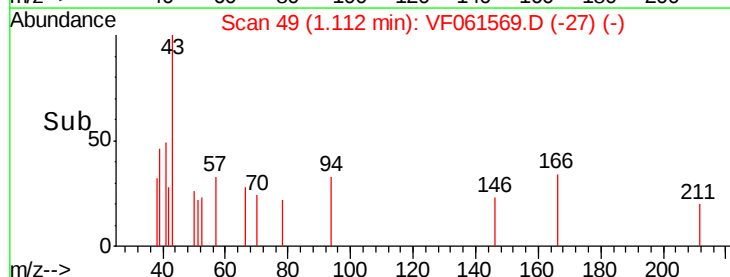
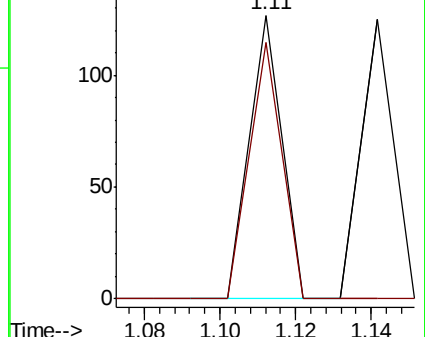
50 100

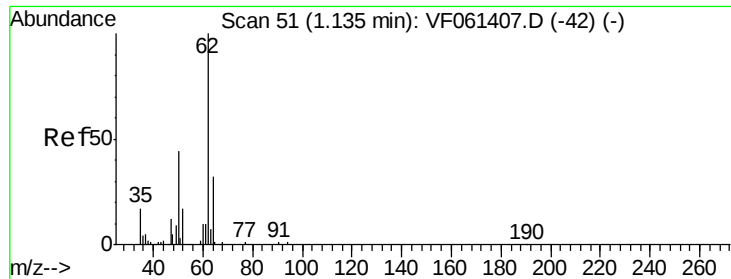
52 90.6 24.6 36.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#4

Vinyl Chloride

Concen: 2.849 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

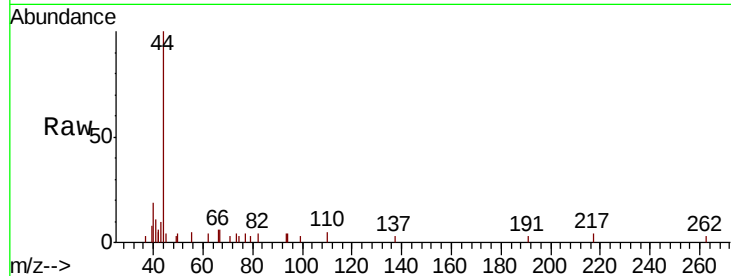
SU-03-020819-A

Tgt Ion: 62 Resp: 88

Ion Ratio Lower Upper

62 100

64 0.0 25.6 38.4#



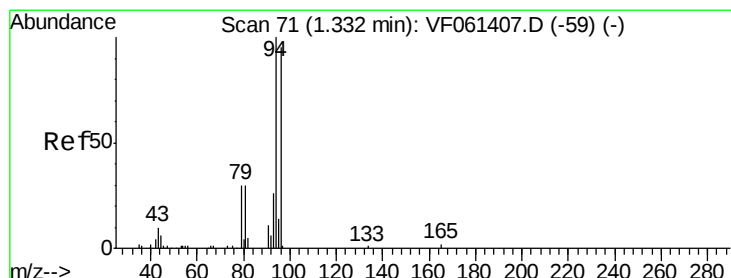
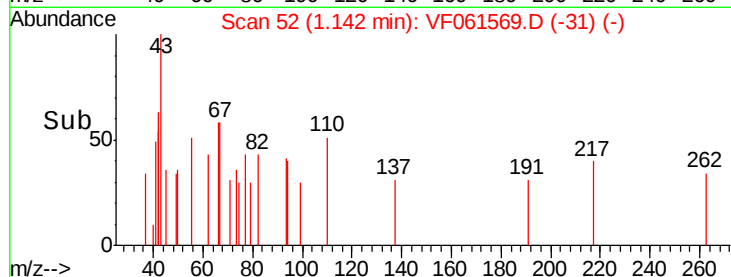
Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.14

1.16

Time-->



#5

Bromomethane

Concen: 17.427 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061569.D

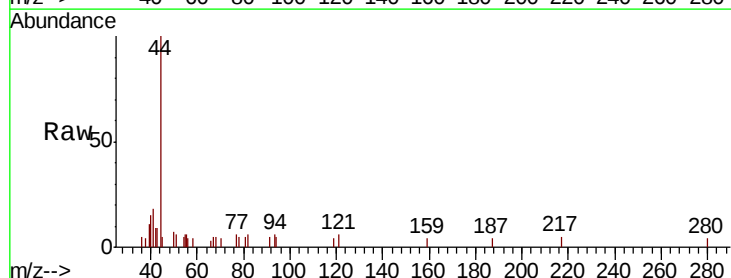
Acq: 8 Feb 2019 20:40

Tgt Ion: 94 Resp: 351

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



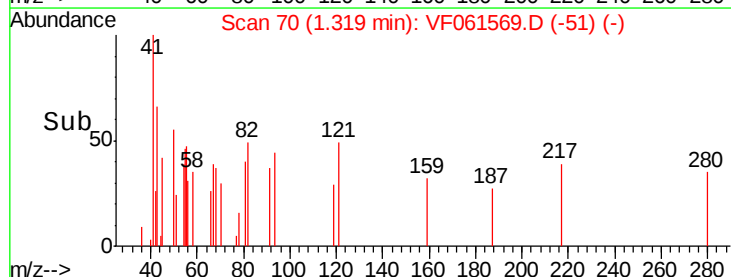
Abundance Ion 94.00 (93.70 to 94.70): VF0

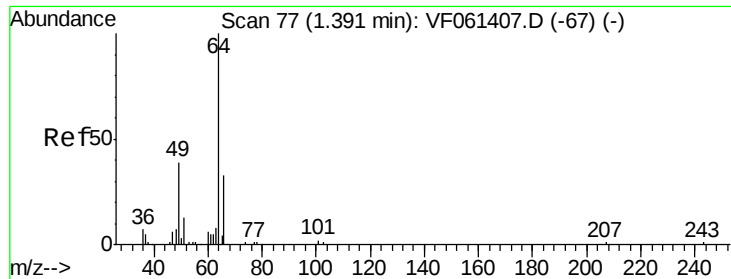
Ion 96.00 (95.70 to 96.70): VF0

1.32

1.34

Time-->





#6

Chloroethane

Concen: 5.699 ug/l

RT: 1.44 min Scan# 82

Delta R.T. 0.05 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

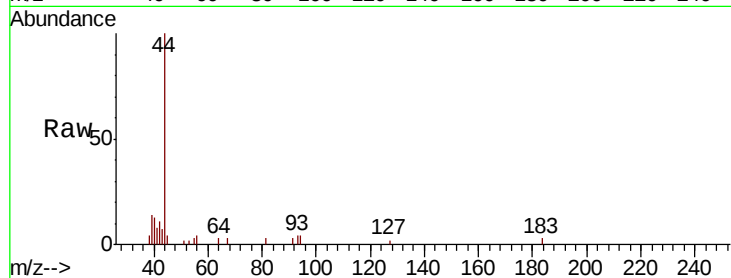
SU-03-020819-A

Tgt Ion: 64 Resp: 78

Ion Ratio Lower Upper

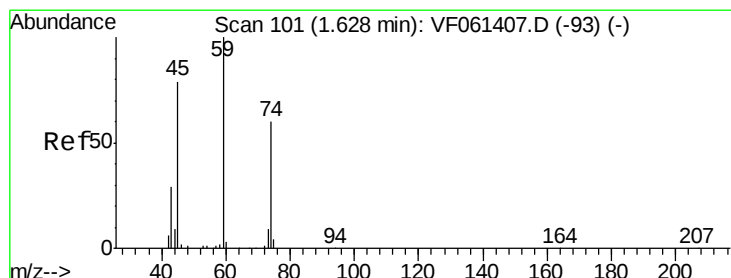
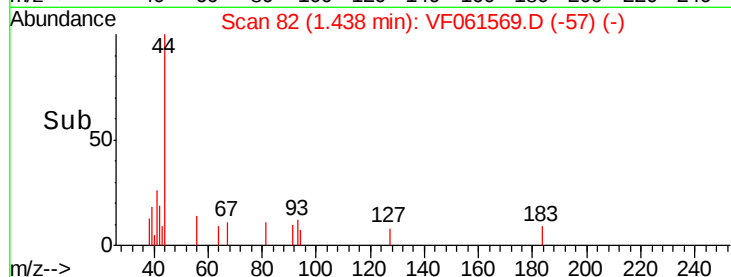
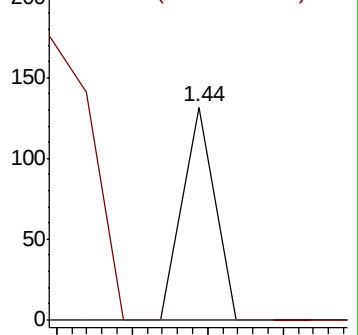
64 100

66 0.0 26.6 40.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 8.059 ug/l

RT: 1.56 min Scan# 94

Delta R.T. -0.07 min

Lab File: VF061569.D

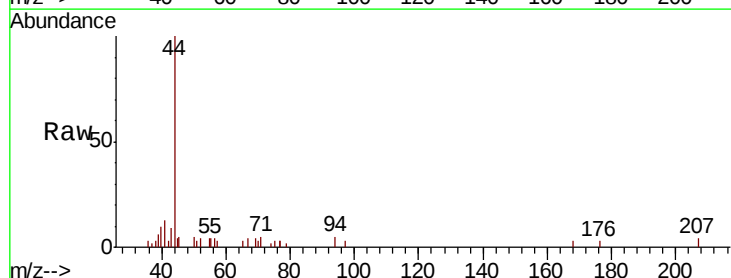
Acq: 8 Feb 2019 20:40

Tgt Ion: 74 Resp: 62

Ion Ratio Lower Upper

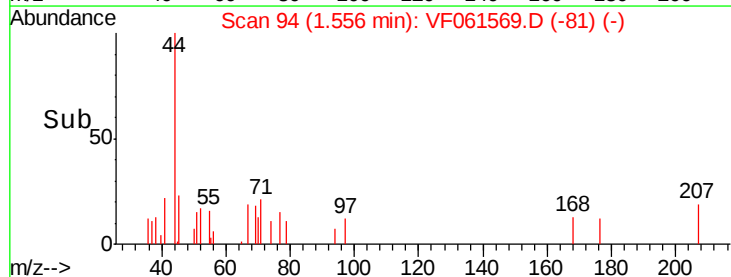
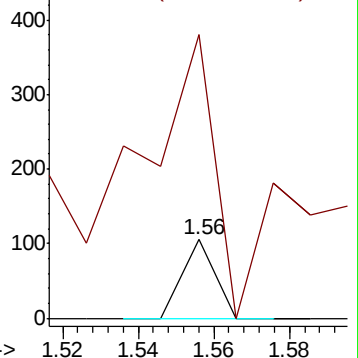
74 100

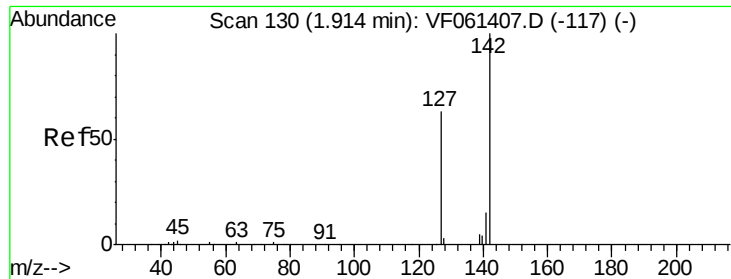
45 361.9 65.8 197.5#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

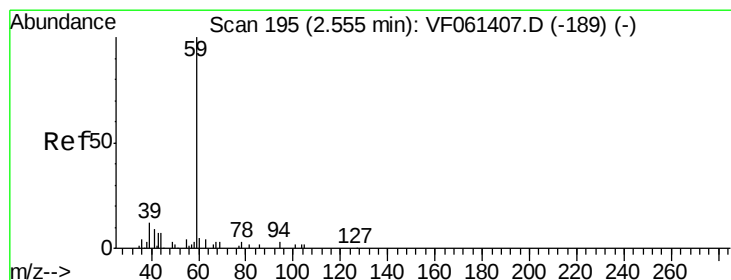
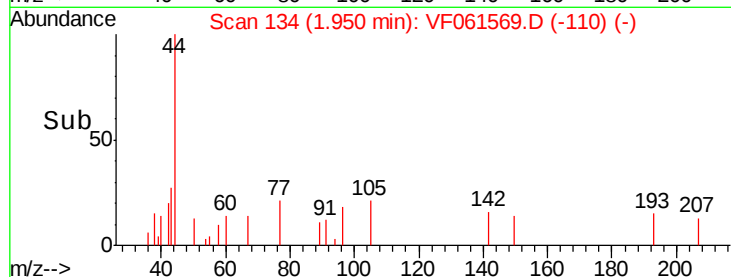
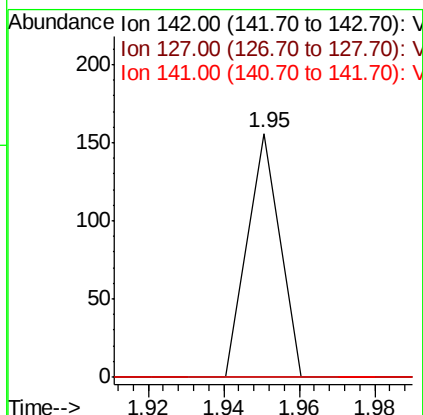
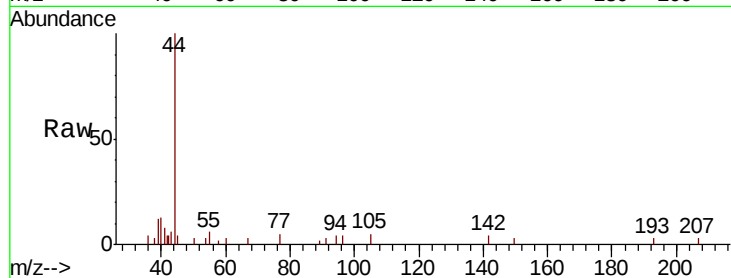




#10
Methyl Iodide
Concen: 2.057 ug/l
RT: 1.95 min Scan# 134
Delta R.T. 0.04 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

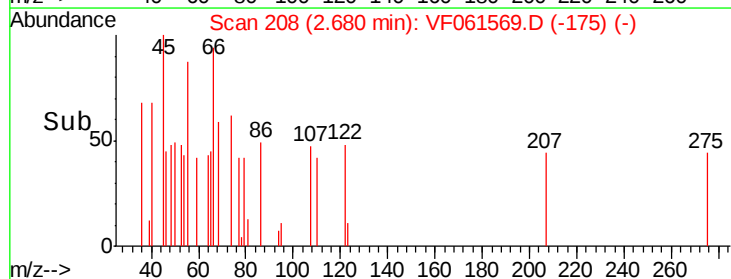
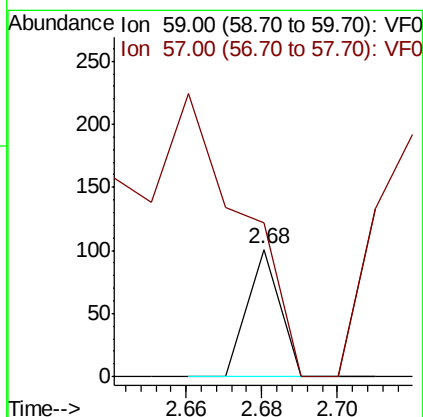
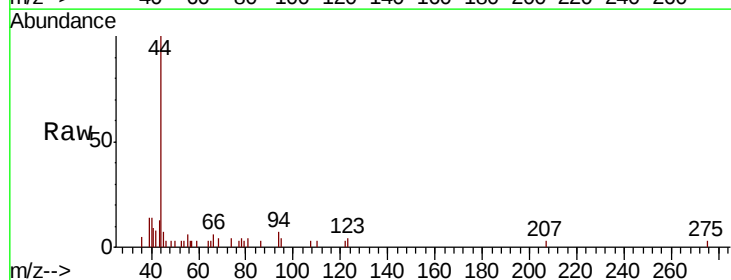
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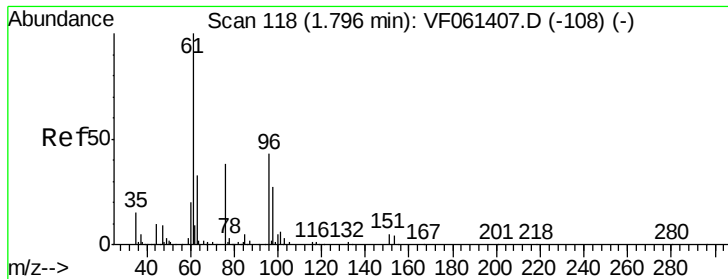
Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	50.7	76.1#
141	0.0	11.8	17.6#



#11
Tert butyl alcohol
Concen: 47.640 ug/l
RT: 2.68 min Scan# 208
Delta R.T. 0.13 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion	Ratio	Lower	Upper
59	100		
57	120.8	11.9	17.9#





#12

1,1-Dichloroethene

Concen: 3.872 ug/l

RT: 1.79 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

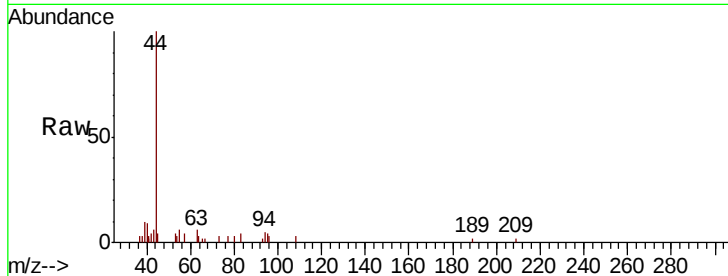
Tgt Ion: 96 Resp: 83

Ion Ratio Lower Upper

96 100

61 0.0 186.9 280.3#

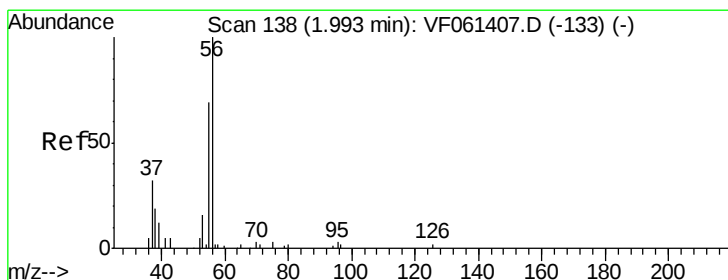
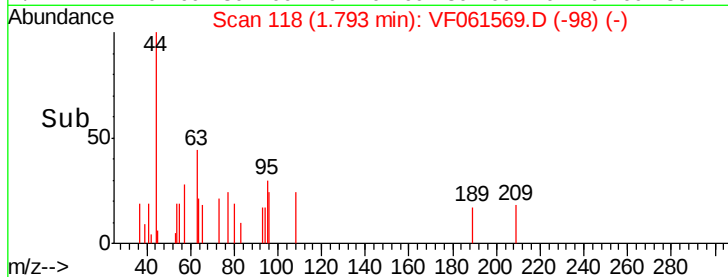
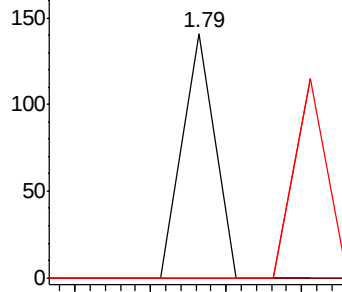
98 0.0 53.0 79.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 116.380 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.15 min

Lab File: VF061569.D

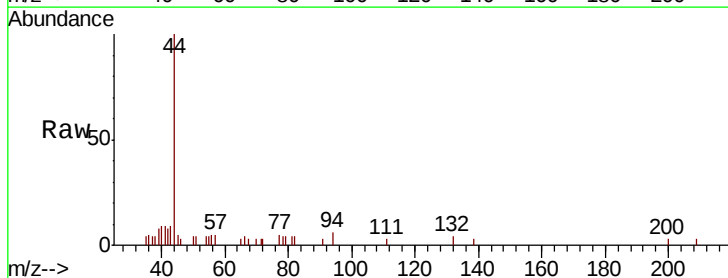
Acq: 8 Feb 2019 20:40

Tgt Ion: 56 Resp: 120

Ion Ratio Lower Upper

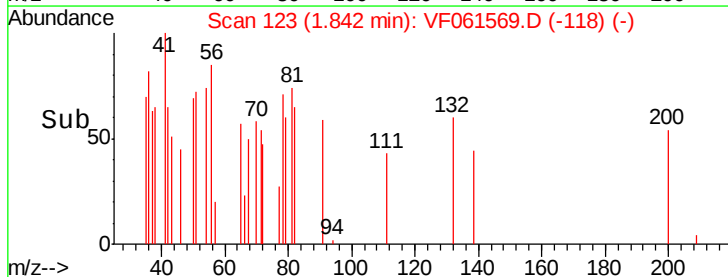
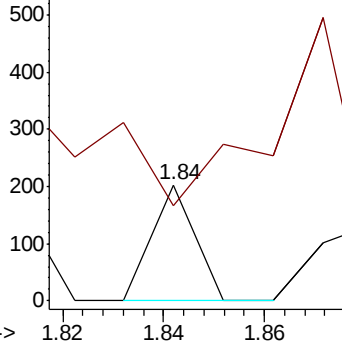
56 100

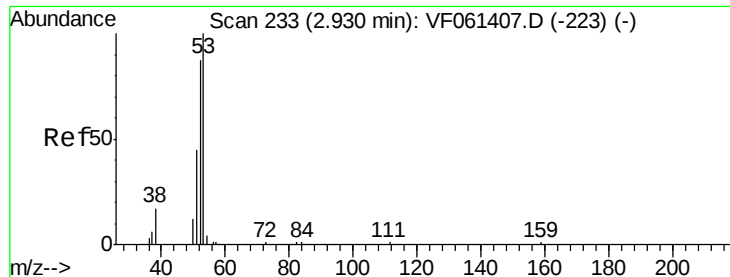
55 81.8 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 200.552 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061569.D

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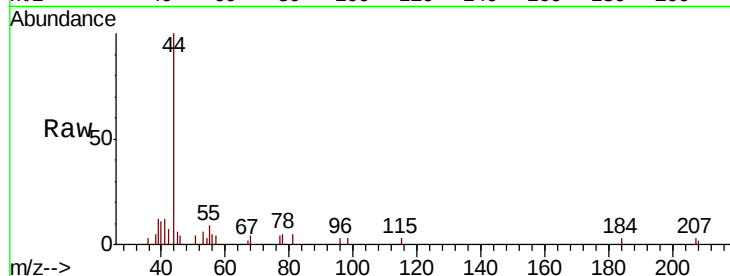
Tgt Ion: 53 Resp: 647

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 0.0 36.8 55.2#



Abundance Ion 53.00 (52.70 to 53.70): VF0

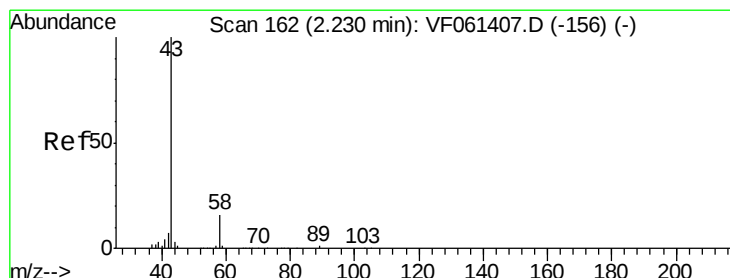
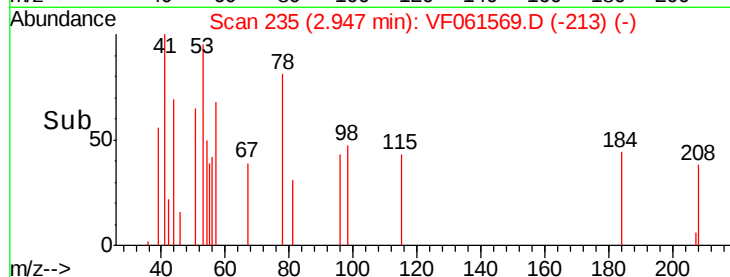
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

2.95

2.90 2.95 3.00

Time-->



#16

Acetone

Concen: 58.970 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061569.D

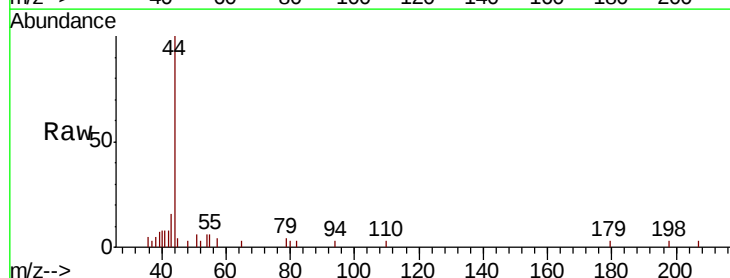
Acq: 8 Feb 2019 20:40

Tgt Ion: 43 Resp: 352

Ion Ratio Lower Upper

43 100

58 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1000

800

600

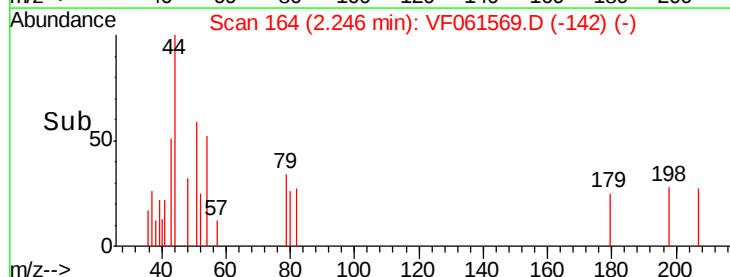
400

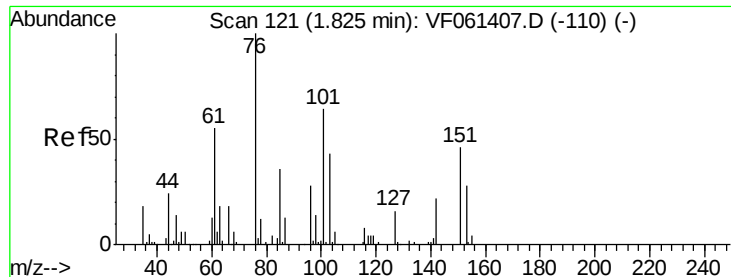
200

0

2.22 2.24 2.26 2.28

Time-->

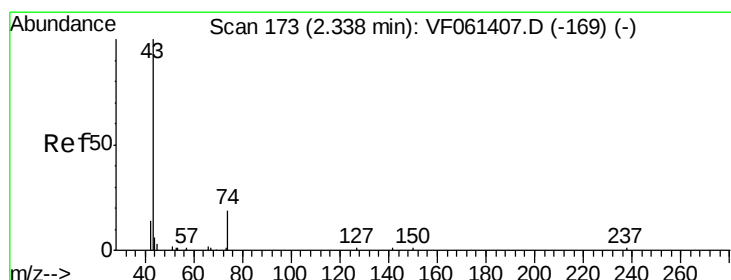
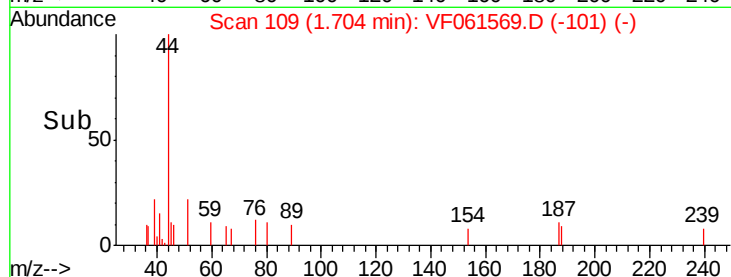
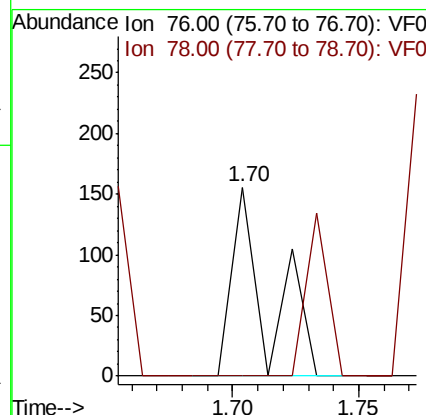
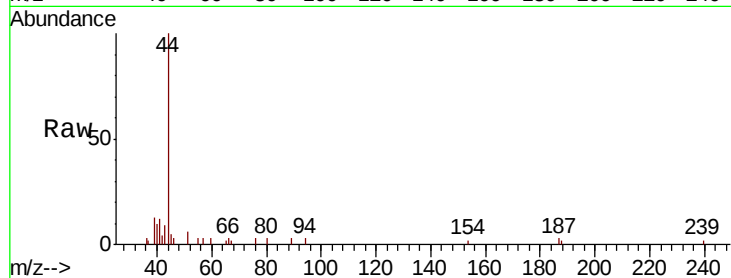




#17
Carbon Disulfide
Concen: 2.304 ug/l
RT: 1.70 min Scan# 109
Delta R.T. -0.12 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

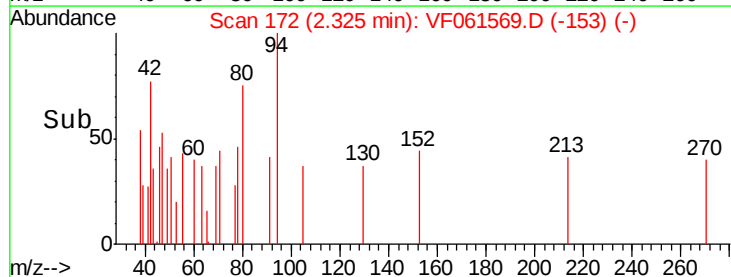
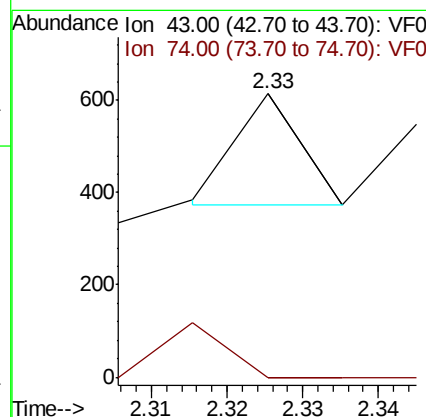
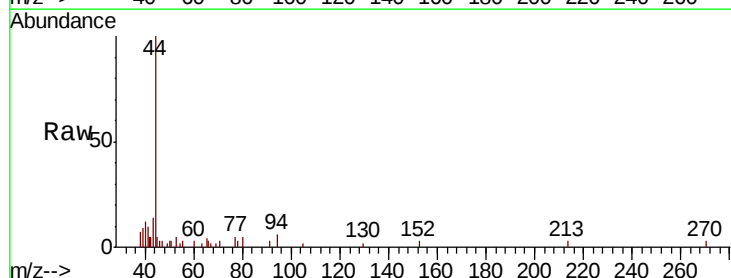
Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

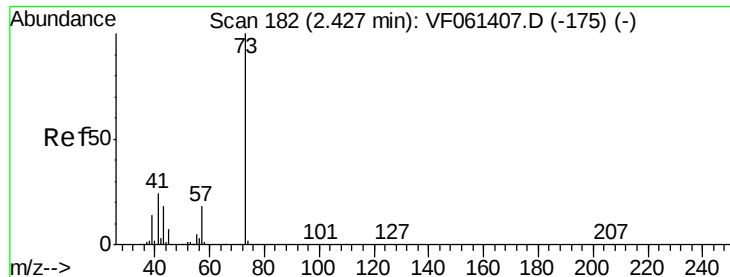
Tgt Ion: 76 Resp: 154
Ion Ratio Lower Upper
76 100
78 0.0 9.6 14.4#



#18
Methyl Acetate
Concen: 12.080 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion: 43 Resp: 143
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#19

Methyl tert-butyl Ether

Concen: 1.311 ug/l

RT: 2.42 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

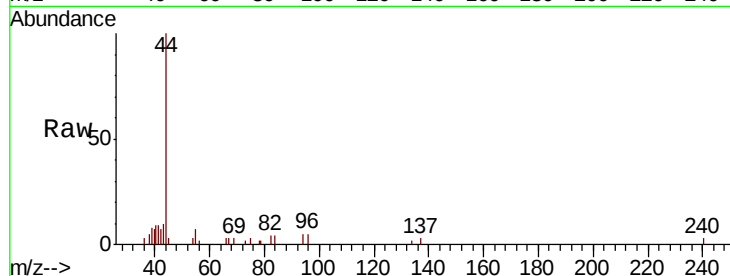
SU-03-020819-A

Tgt Ion: 73 Resp: 63

Ion Ratio Lower Upper

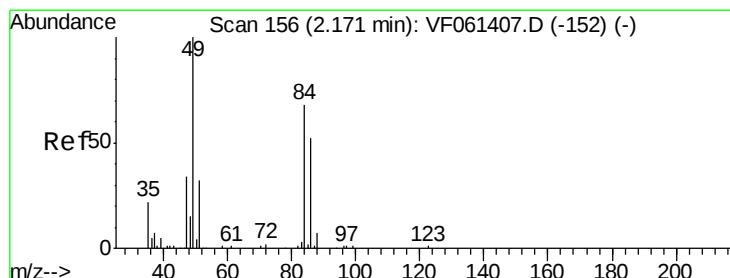
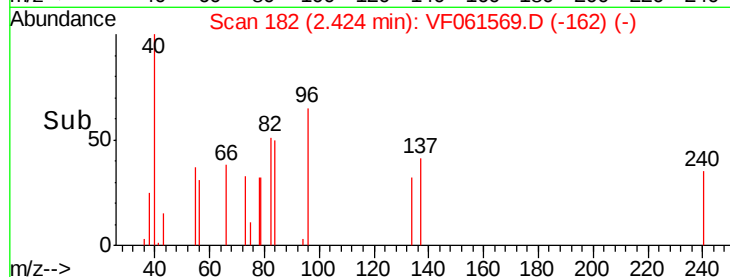
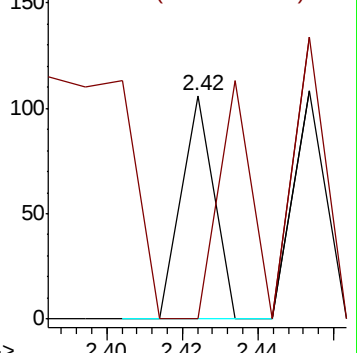
73 100

57 0.0 14.8 22.2#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 4.828 ug/l

RT: 2.19 min Scan# 158

Delta R.T. 0.02 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Tgt Ion: 84 Resp: 130

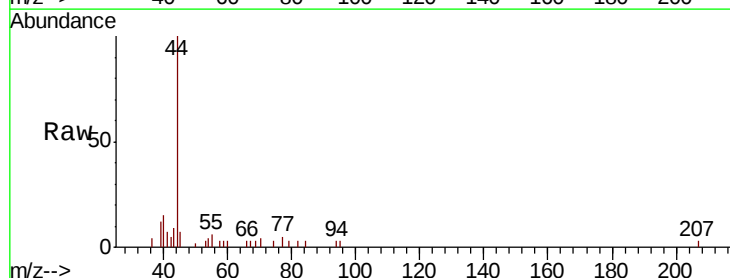
Ion Ratio Lower Upper

84 100

49 0.0 120.0 180.0#

51 0.0 38.6 58.0#

86 0.0 61.0 91.6#

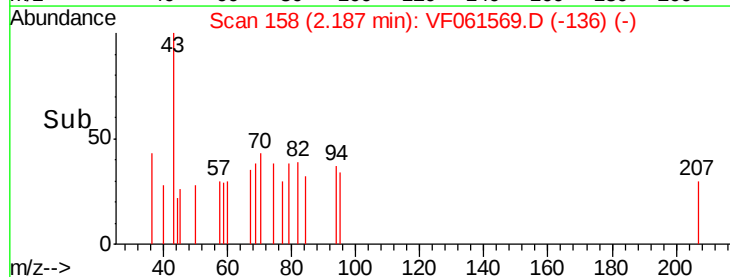
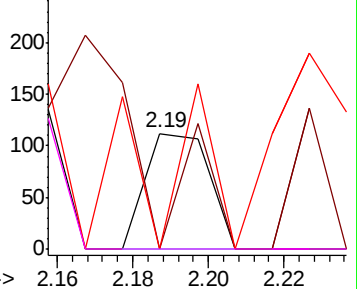


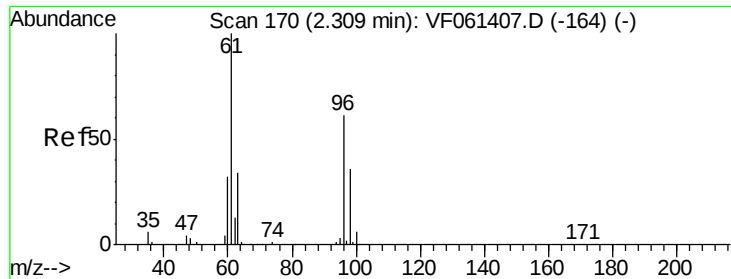
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#21

trans-1,2-Dichloroethene

Concen: 11.152 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

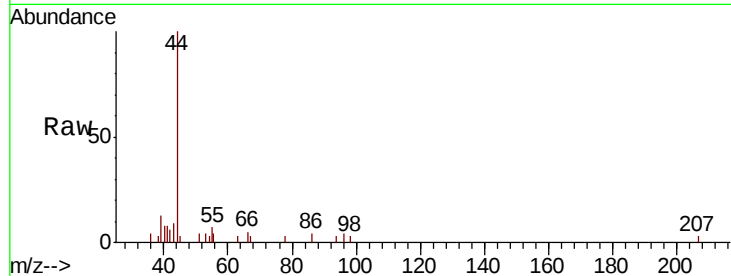
Tgt Ion: 96 Resp: 263

Ion Ratio Lower Upper

96 100

61 0.0 131.8 197.8#

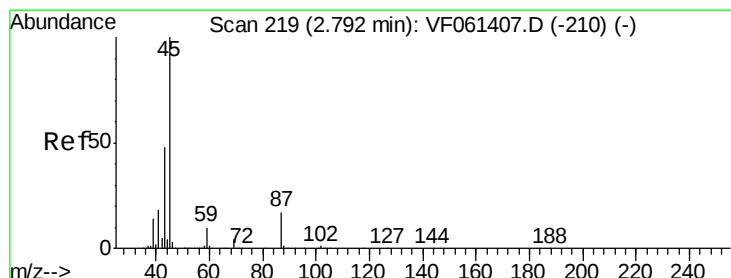
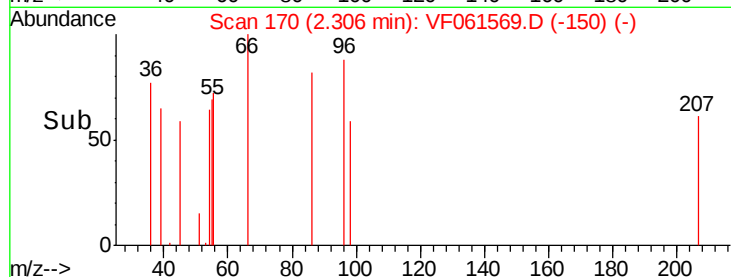
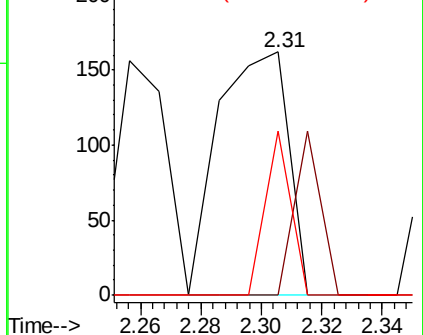
98 67.3 47.4 71.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 7.224 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Tgt Ion: 45 Resp: 551

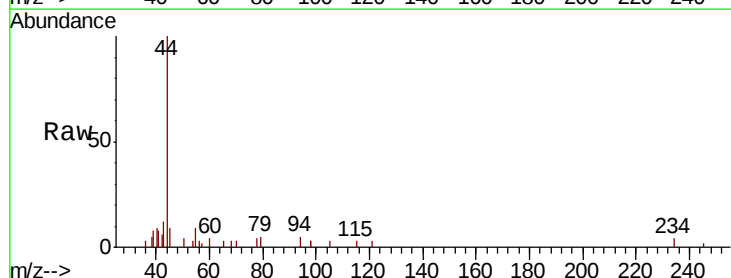
Ion Ratio Lower Upper

45 100

43 133.7 39.0 58.6#

87 0.0 13.9 20.9#

59 0.0 7.8 11.6#

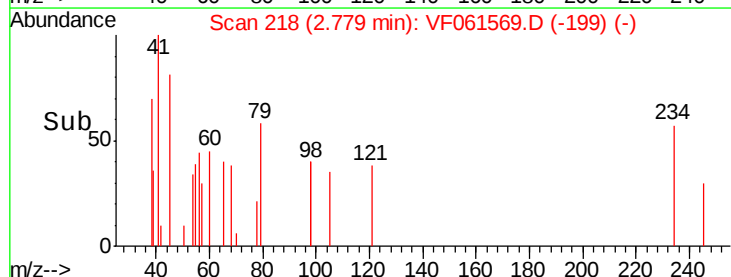
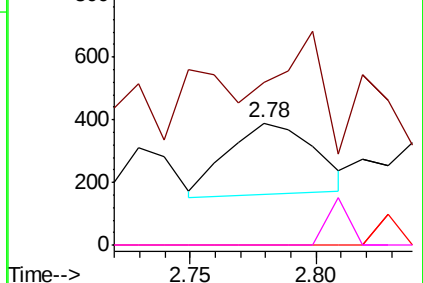


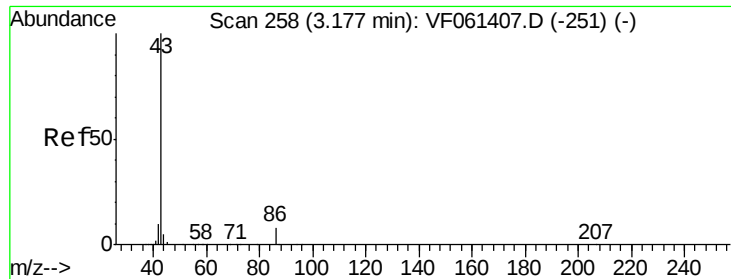
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 7.225 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

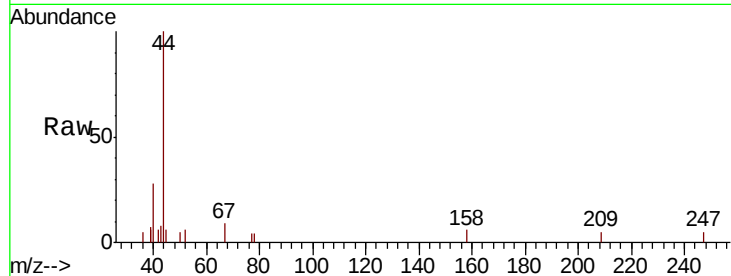
SU-03-020819-A

Tgt Ion: 43 Resp: 137

Ion Ratio Lower Upper

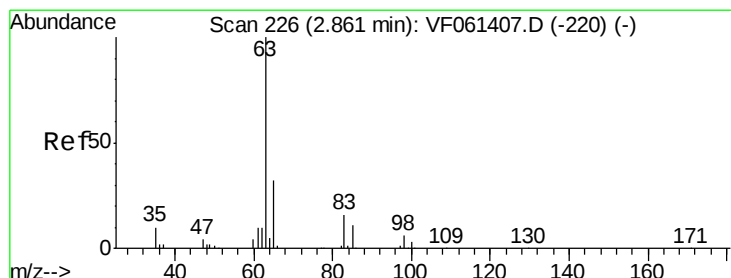
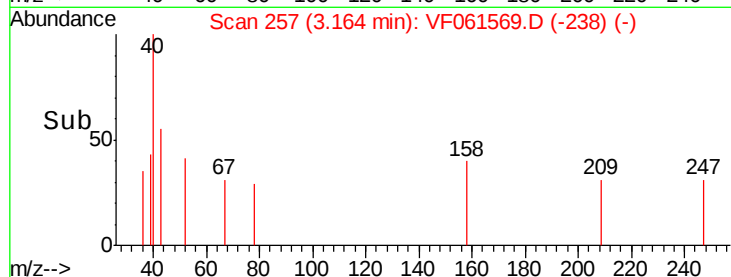
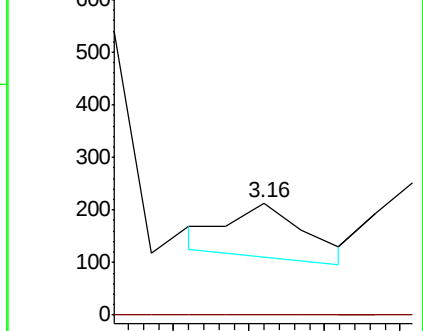
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 1.232 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

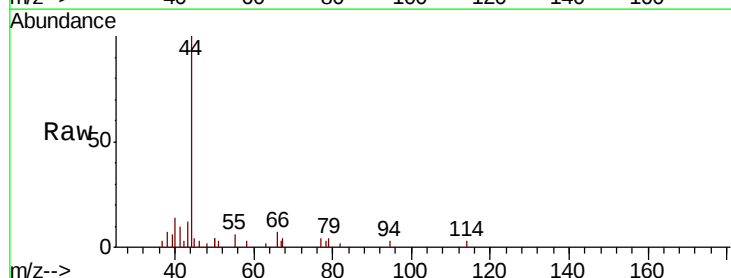
Tgt Ion: 63 Resp: 59

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

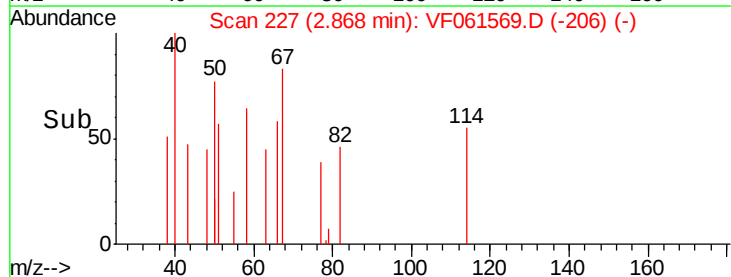
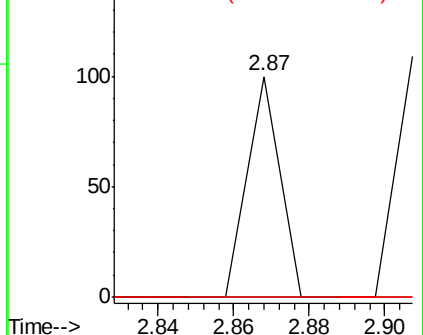
100 0.0 1.6 4.8#

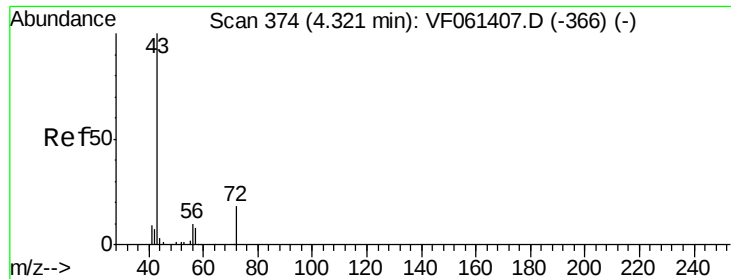


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 8.865 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

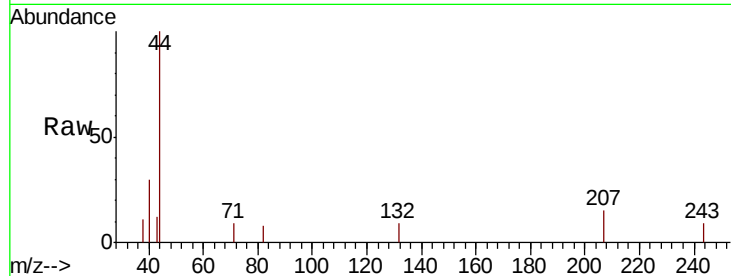
SU-03-020819-A

Tgt Ion: 43 Resp: 88

Ion Ratio Lower Upper

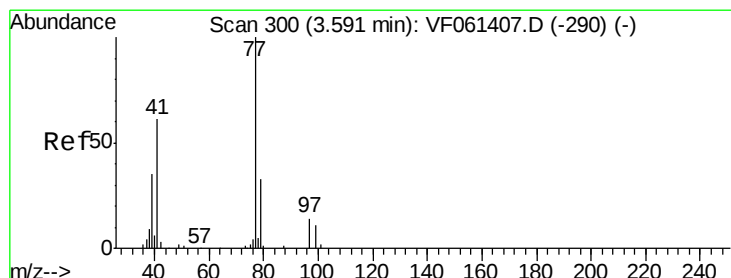
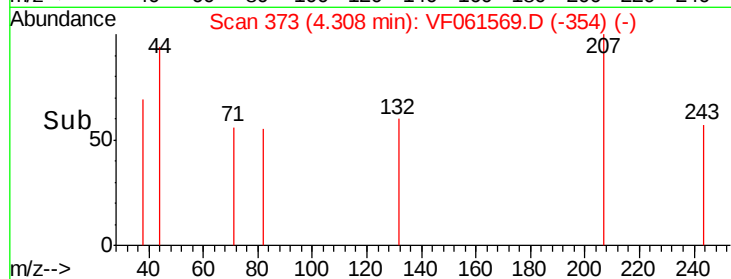
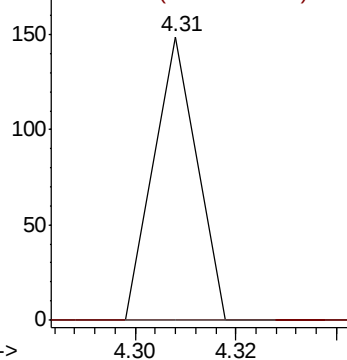
43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 4.692 ug/l

RT: 3.52 min Scan# 293

Delta R.T. -0.07 min

Lab File: VF061569.D

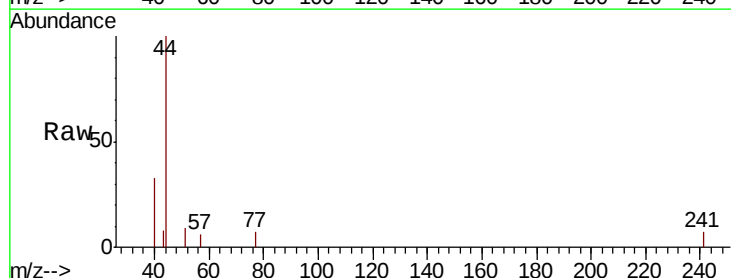
Acq: 8 Feb 2019 20:40

Tgt Ion: 77 Resp: 138

Ion Ratio Lower Upper

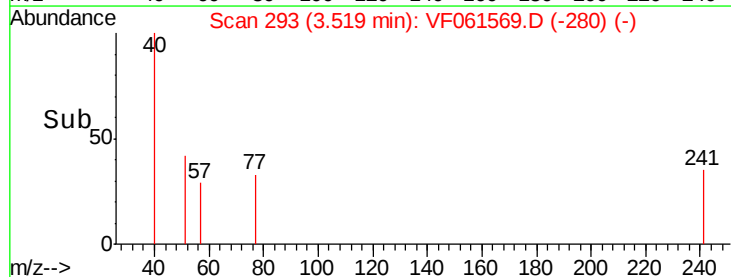
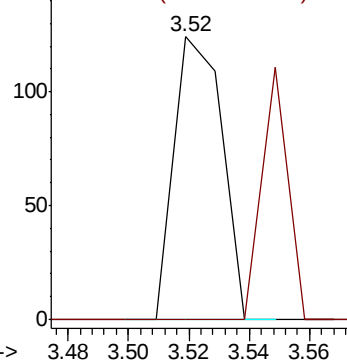
77 100

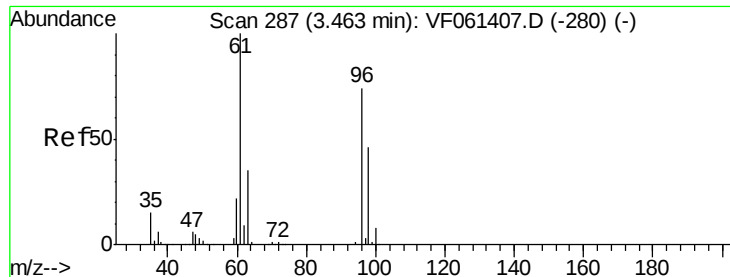
97 0.0 8.5 25.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



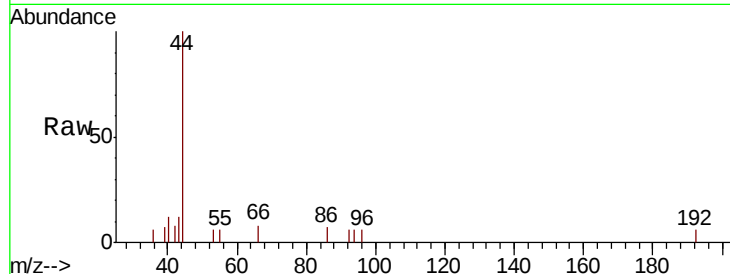


#27

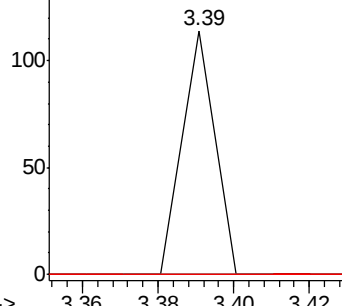
cis-1,2-Dichloroethene
Concen: 1.925 ug/l
RT: 3.39 min Scan# 280
Delta R.T. -0.07 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

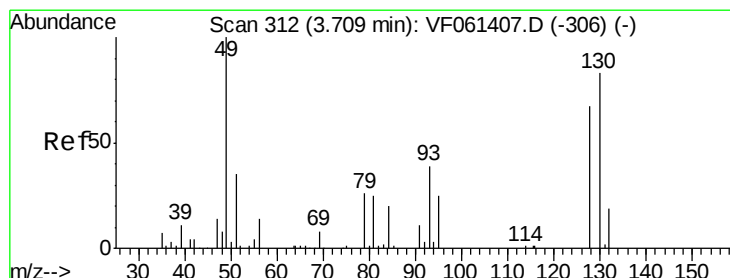
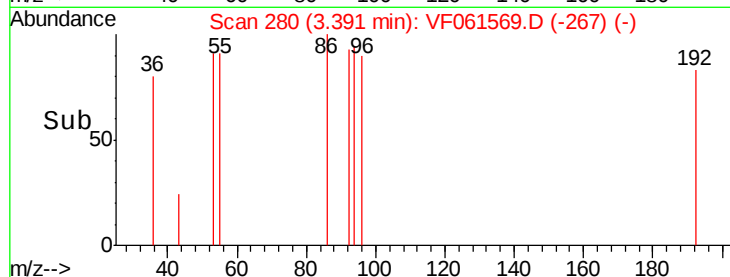
Tgt Ion: 96 Resp: 67
Ion Ratio Lower Upper
96 100
61 0.0 0.0 270.2
98 0.0 0.0 124.0



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



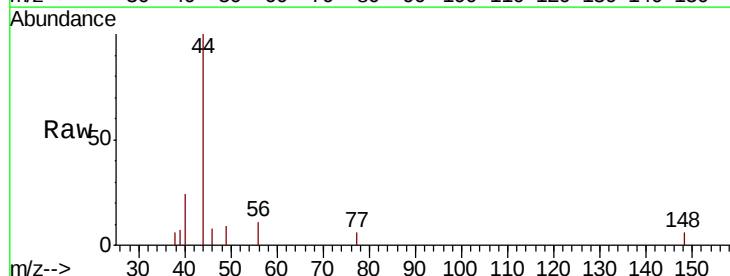
Time-->



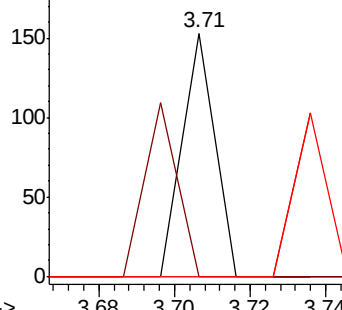
#28

Bromochloromethane
Concen: 4.229 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

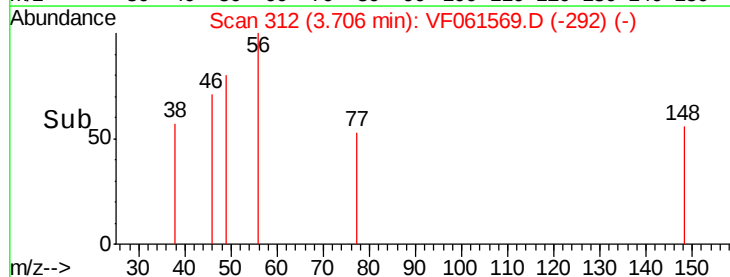
Tgt Ion: 49 Resp: 91
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 0.0 65.4 98.2#

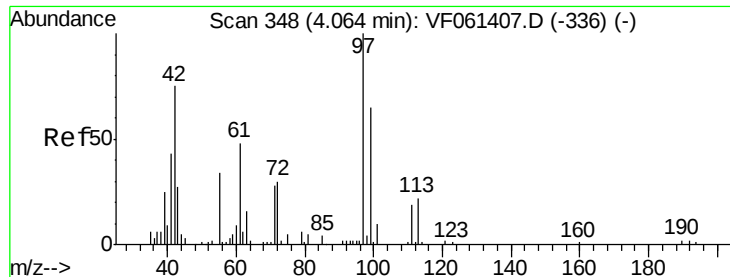


Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V



Time-->





#29

Tetrahydrofuran

Concen: 29.947 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.02 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

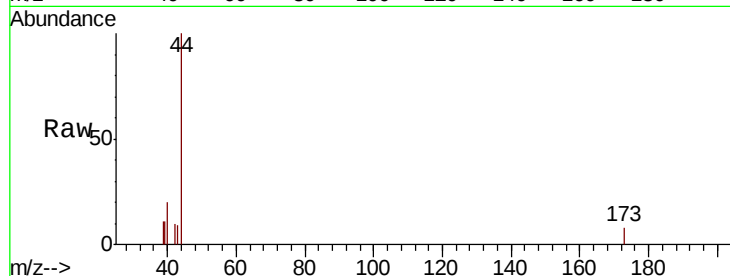
Tgt Ion: 42 Resp: 128

Ion Ratio Lower Upper

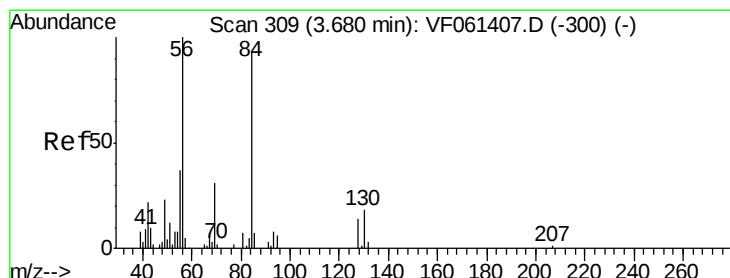
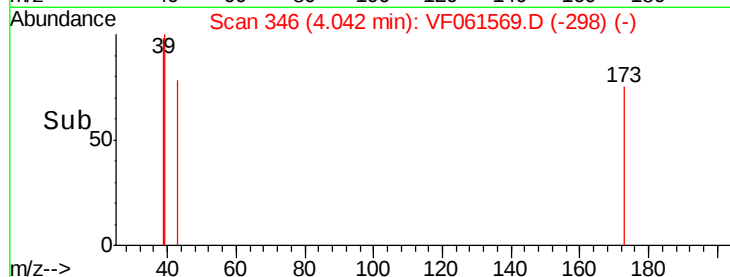
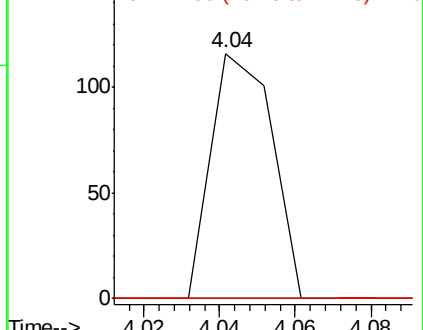
42 100

72 0.0 28.9 43.3#

71 0.0 29.6 44.4#



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



#31

Cyclohexane

Concen: 1.276 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

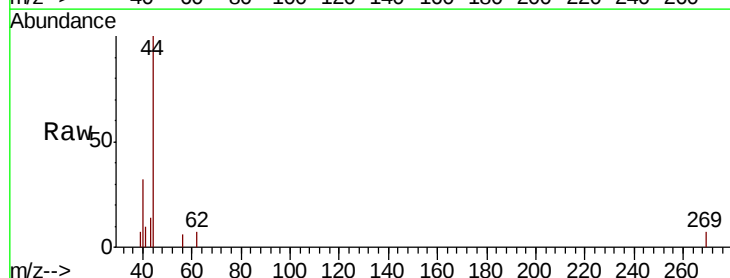
Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

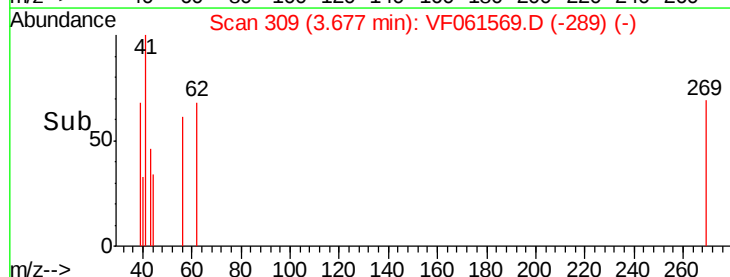
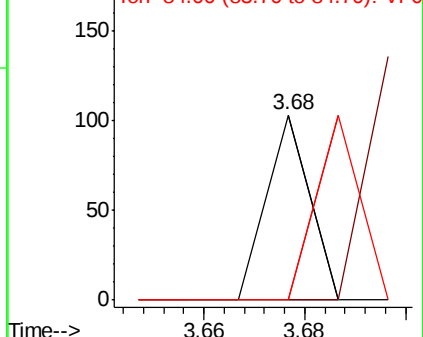
56 100

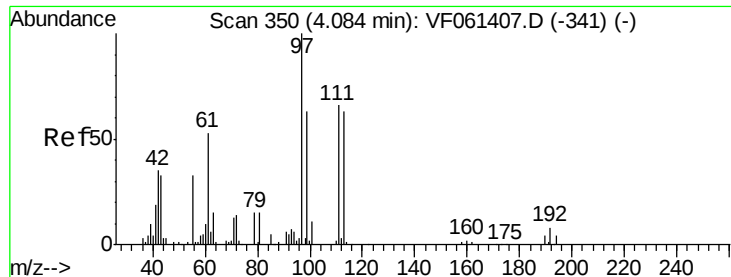
69 0.0 24.6 36.8#

84 0.0 74.2 111.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 1.330 ug/l

RT: 4.19 min Scan# 361

Delta R.T. 0.11 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

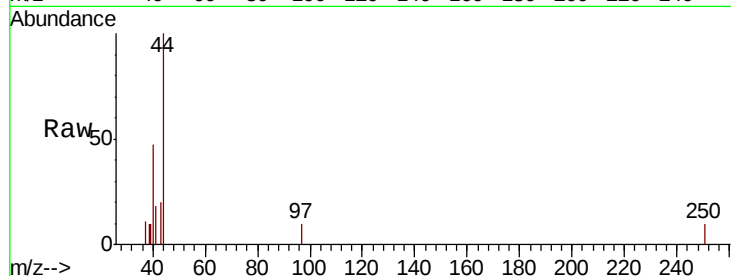
Tgt Ion: 97 Resp: 63

Ion Ratio Lower Upper

97 100

99 0.0 50.1 75.1#

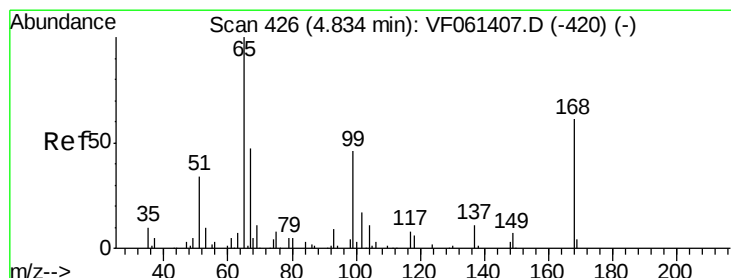
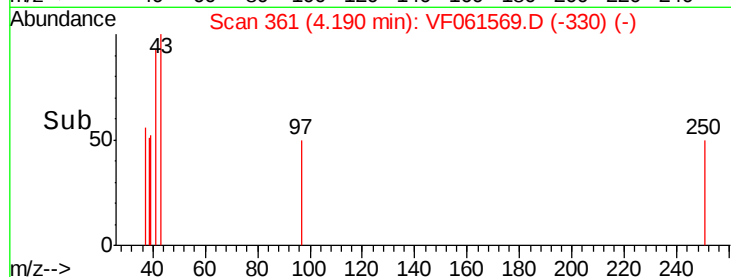
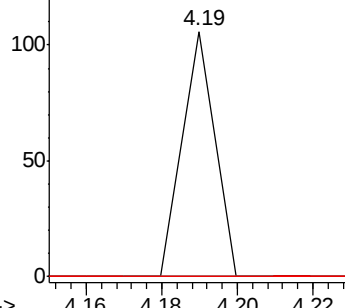
61 0.0 43.1 64.7#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 10.755 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061569.D

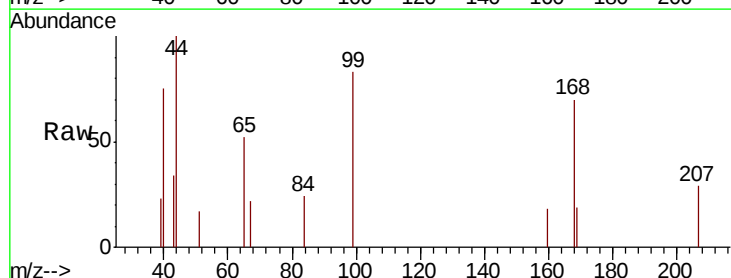
Acq: 8 Feb 2019 20:40

Tgt Ion: 65 Resp: 320

Ion Ratio Lower Upper

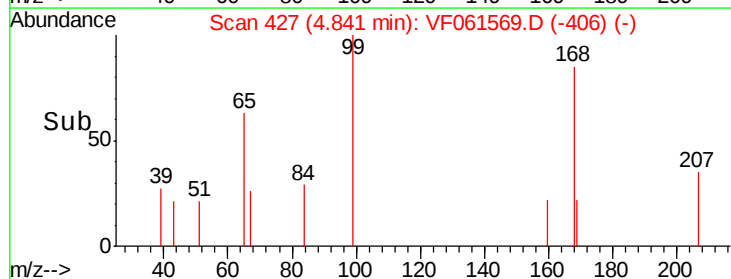
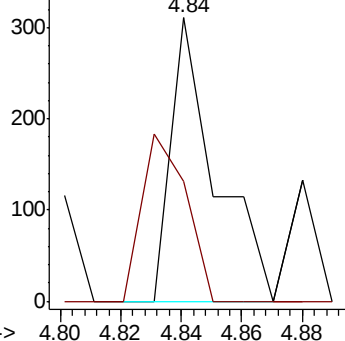
65 100

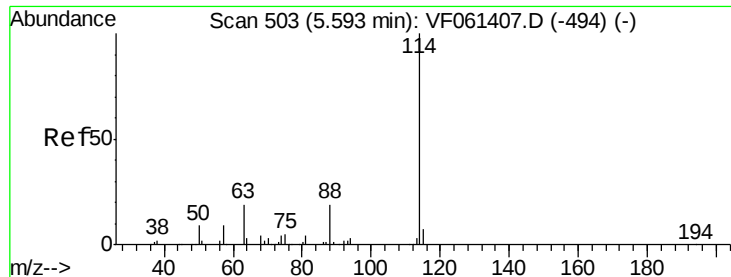
67 42.1 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

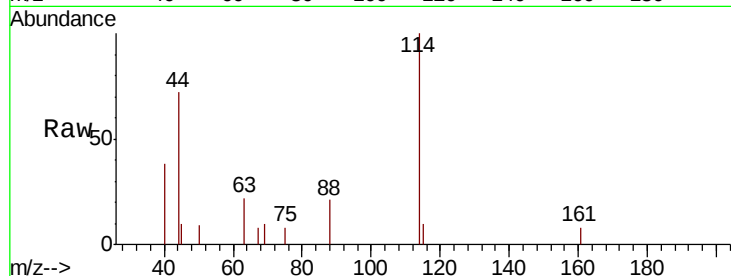
Tgt Ion:114 Resp: 3416

Ion Ratio Lower Upper

114 100

63 22.2 0.0 39.0

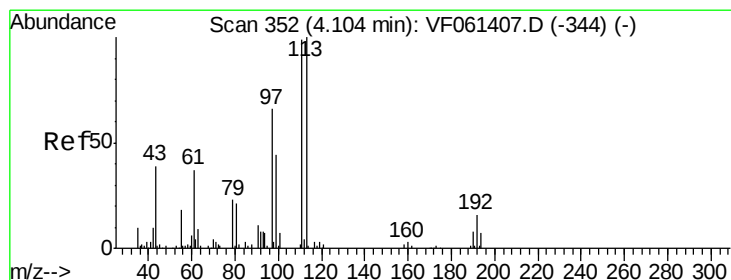
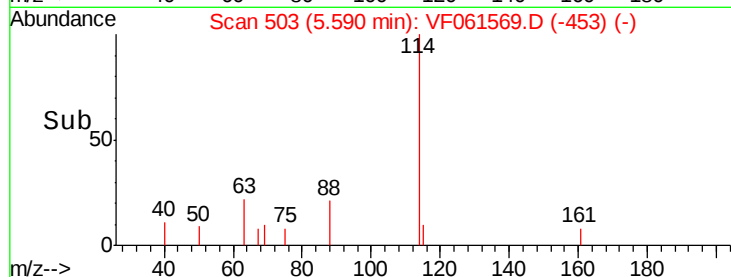
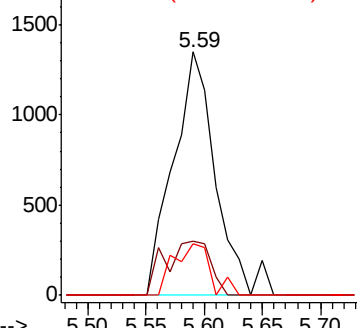
88 21.0 0.0 37.4



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: 27.379 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.02 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

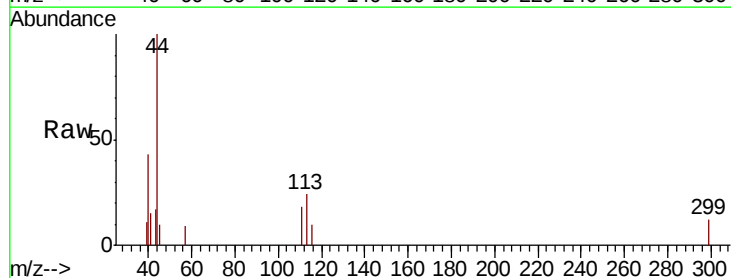
Tgt Ion:113 Resp: 738

Ion Ratio Lower Upper

113 100

111 76.7 79.4 119.0#

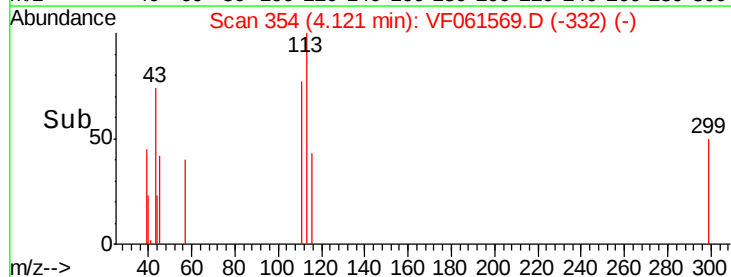
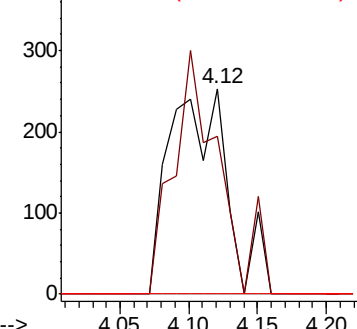
192 0.0 12.4 18.6#

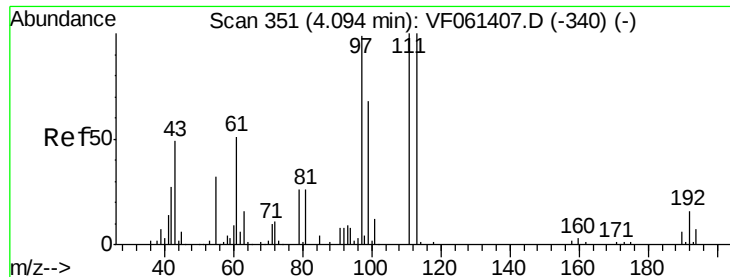


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 7.516 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

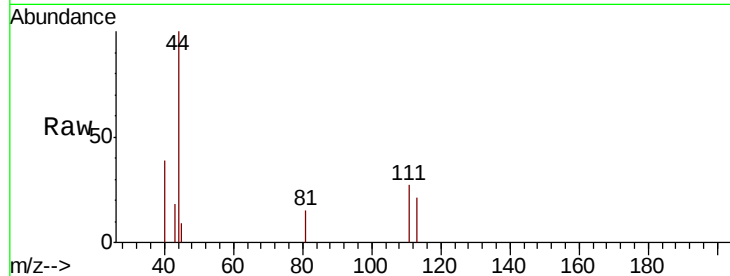
Tgt Ion: 43 Resp: 119

Ion Ratio Lower Upper

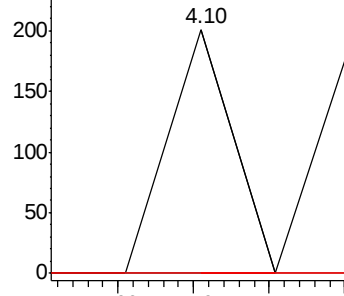
43 100

61 0.0 81.7 122.5#

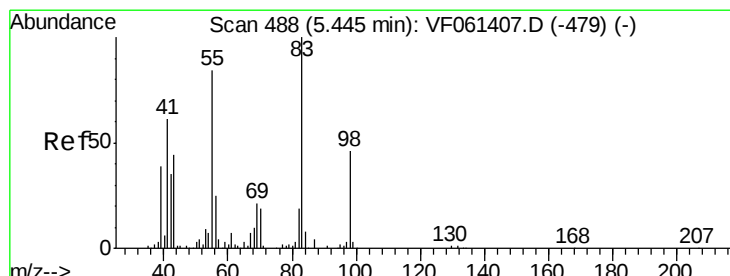
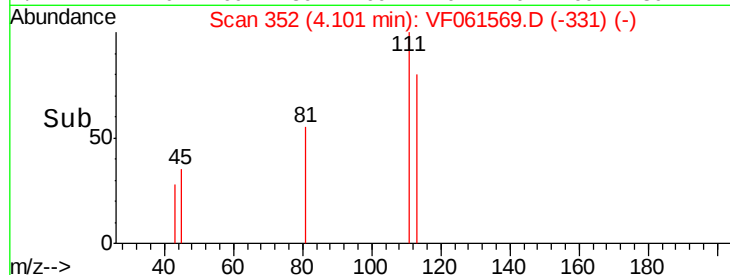
70 0.0 6.2 9.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



Time-->



#39

Methylcyclohexane

Concen: 1.514 ug/l

RT: 5.43 min Scan# 487

Delta R.T. -0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

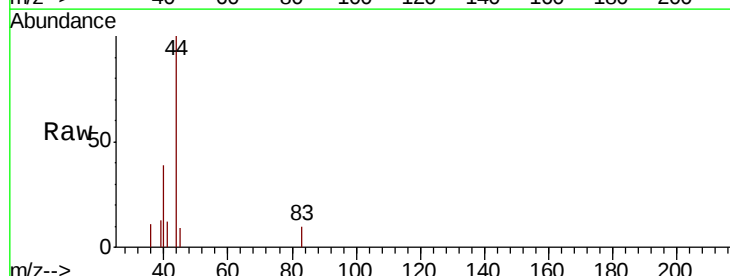
Tgt Ion: 83 Resp: 65

Ion Ratio Lower Upper

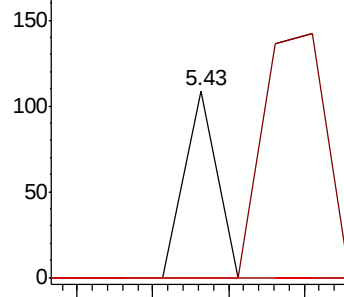
83 100

55 0.0 67.4 101.2#

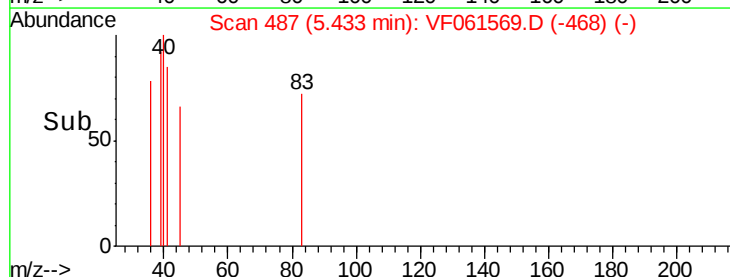
98 0.0 36.7 55.1#

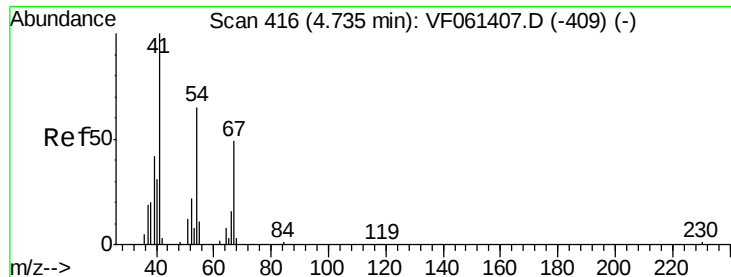


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



Time-->





#41

Methacrylonitrile

Concen: 27.183 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.02 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

Tgt Ion: 41 Resp: 229

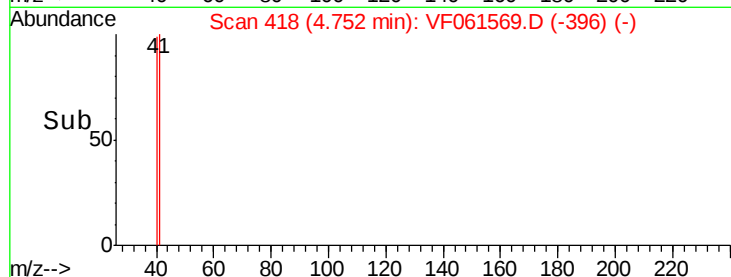
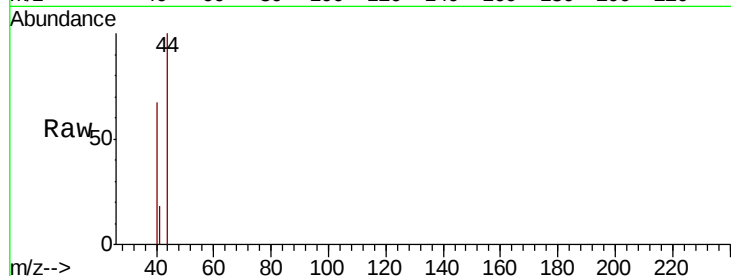
Ion Ratio Lower Upper

41 100

39 0.0 43.1 64.7#

67 0.0 38.8 58.2#

52 0.0 33.2 49.8#

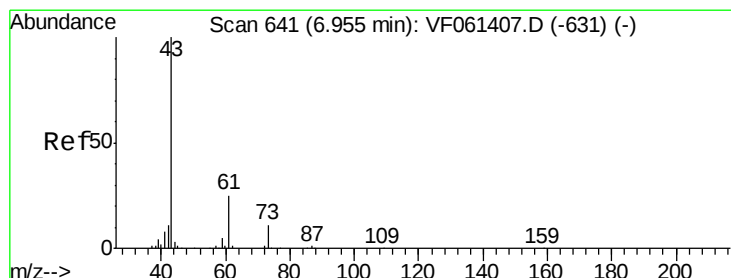
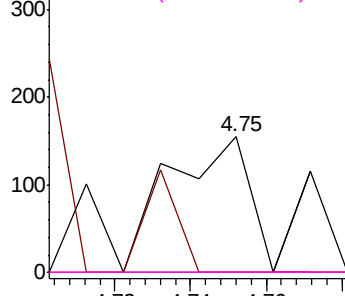


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 4.932 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

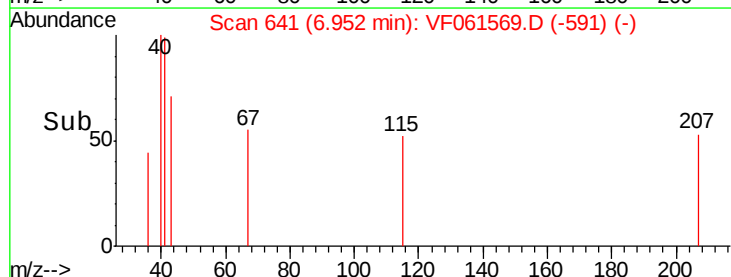
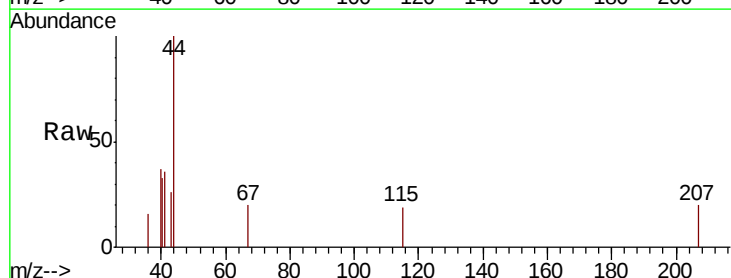
Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

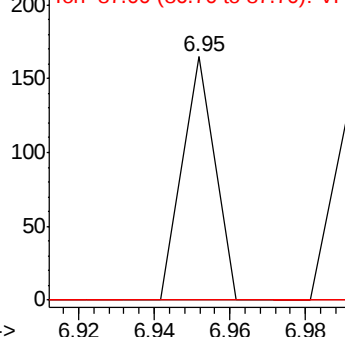
87 0.0 0.5 0.7#

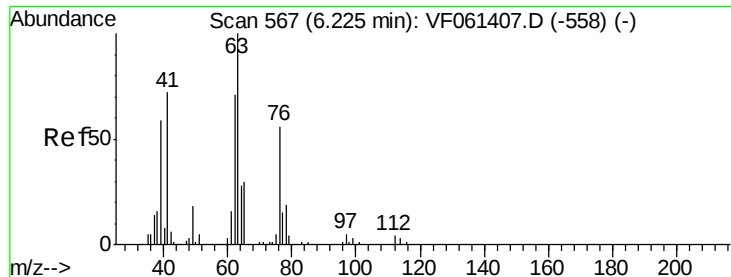


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 3.156 ug/l

RT: 6.16 min Scan# 561

Delta R.T. -0.06 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

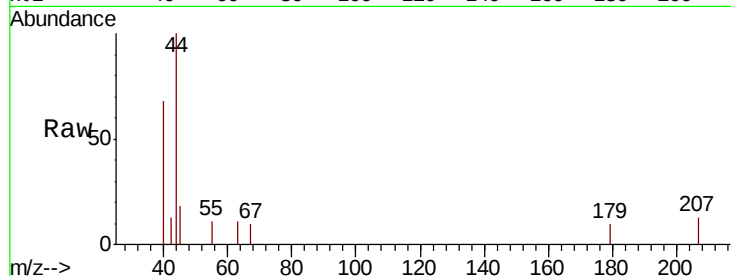
SU-03-020819-A

Tgt Ion: 63 Resp: 73

Ion Ratio Lower Upper

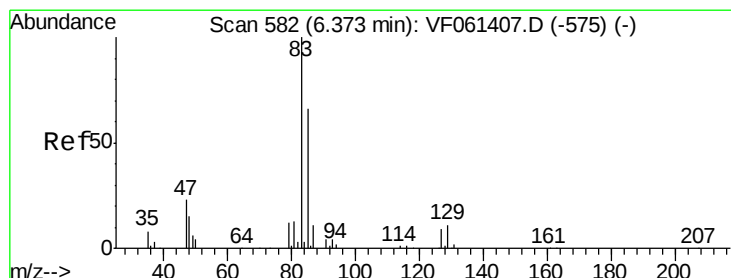
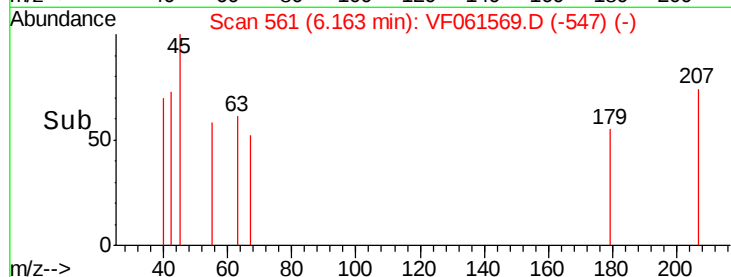
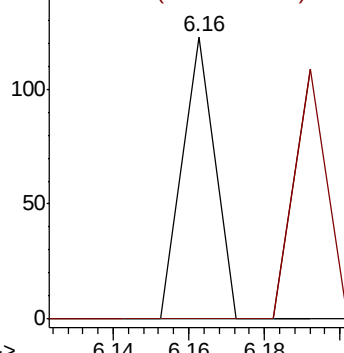
63 100

65 0.0 24.4 36.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#47

Bromodichloromethane

Concen: 1.813 ug/l

RT: 6.48 min Scan# 593

Delta R.T. 0.11 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

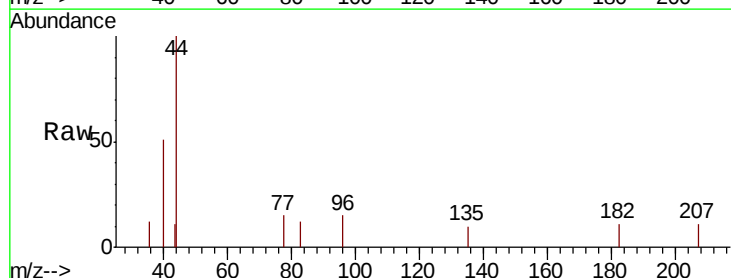
Tgt Ion: 83 Resp: 69

Ion Ratio Lower Upper

83 100

85 0.0 53.0 79.4#

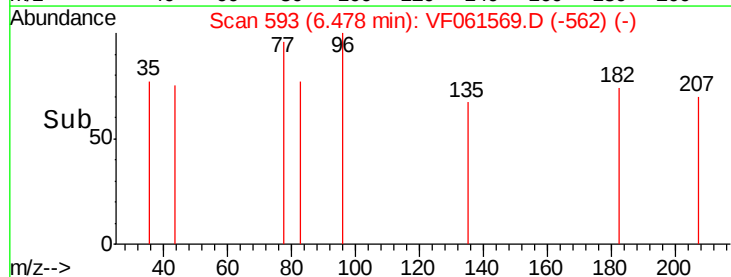
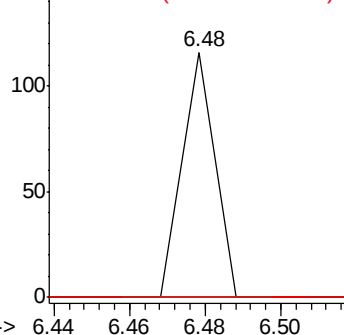
127 0.0 6.9 10.3#

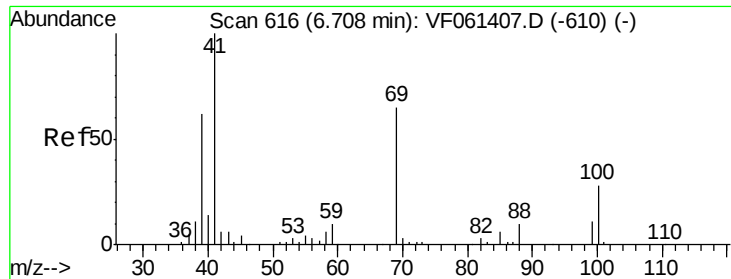


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

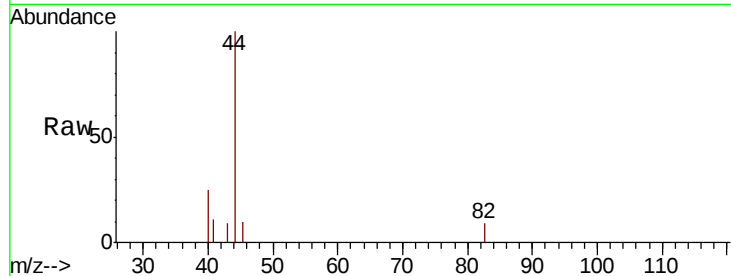




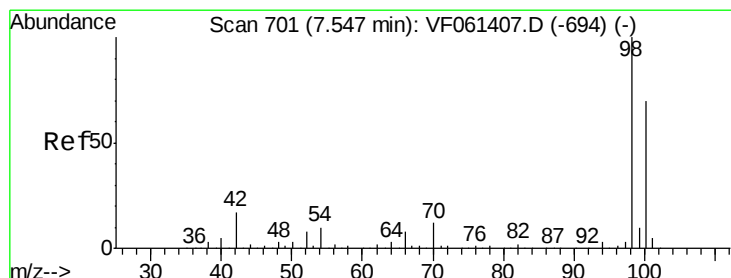
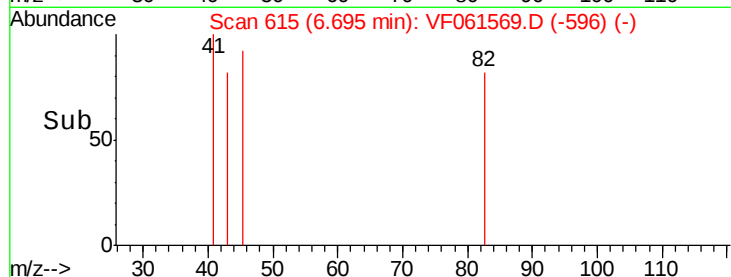
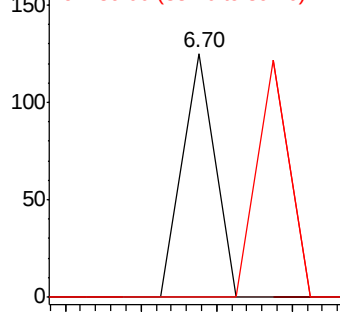
#48
Methyl methacrylate
Concen: 5.546 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.01 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

Tgt Ion: 41 Resp: 74
Ion Ratio Lower Upper
41 100
69 0.0 51.7 77.5#
39 0.0 49.2 73.8#

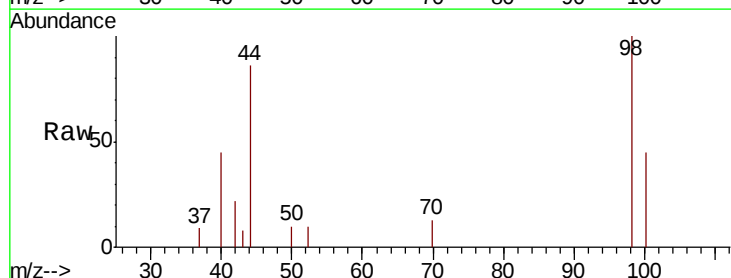


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

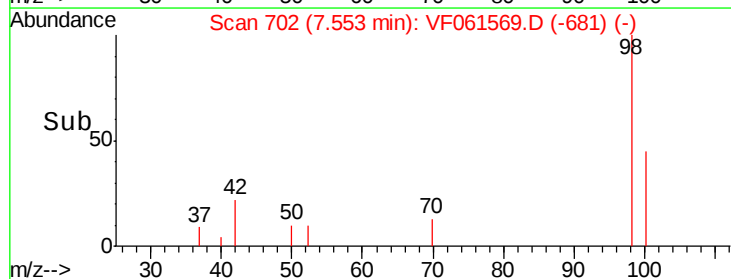
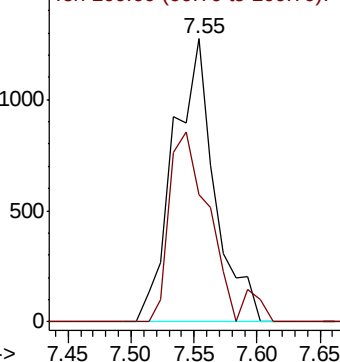


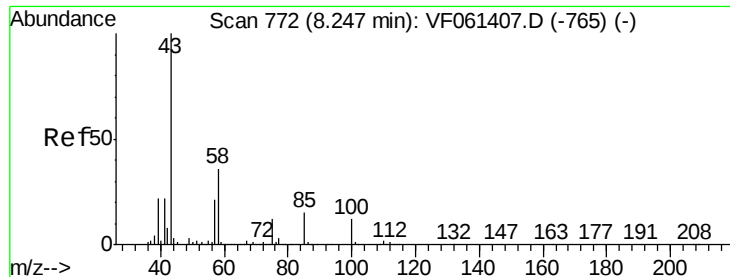
#50
Toluene-d8
Concen: 39.335 ug/l
RT: 7.55 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion: 98 Resp: 2905
Ion Ratio Lower Upper
98 100
100 44.8 55.6 83.4#



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: 9.242 ug/l

RT: 8.21 min Scan# 769

Delta R.T. -0.03 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

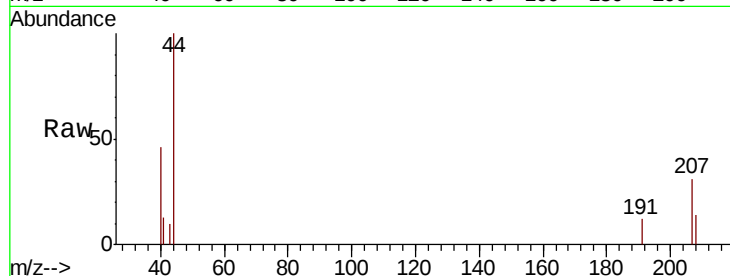
SU-03-020819-A

Tgt Ion: 43 Resp: 135

Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.21

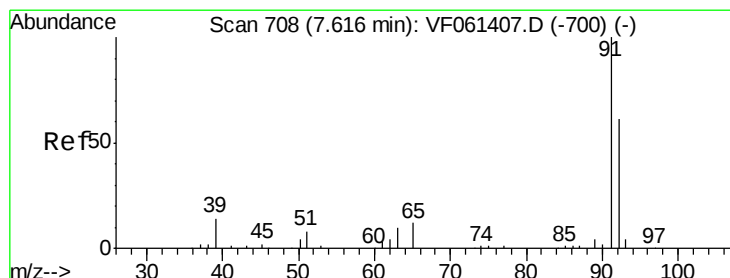
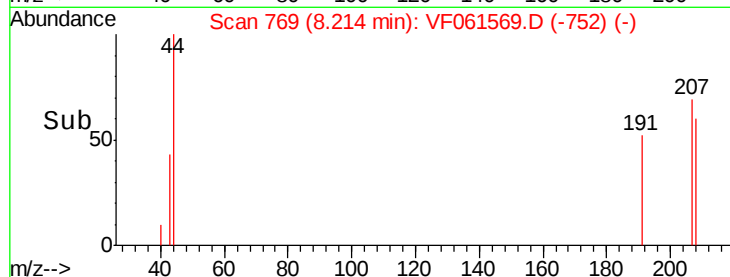
100

50

0

8.20 8.22 8.24

Time-->



#52

Toluene

Concen: 9.545 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061569.D

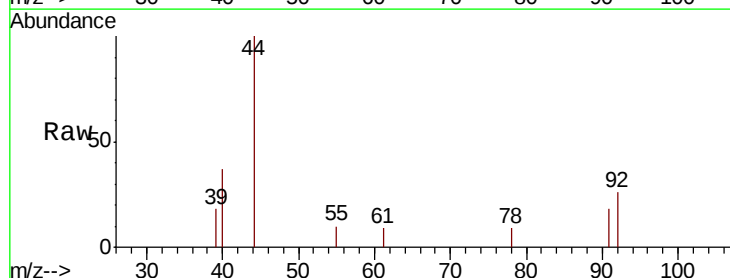
Acq: 8 Feb 2019 20:40

Tgt Ion: 92 Resp: 554

Ion Ratio Lower Upper

92 100

91 69.5 131.2 196.8#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

500

400

300

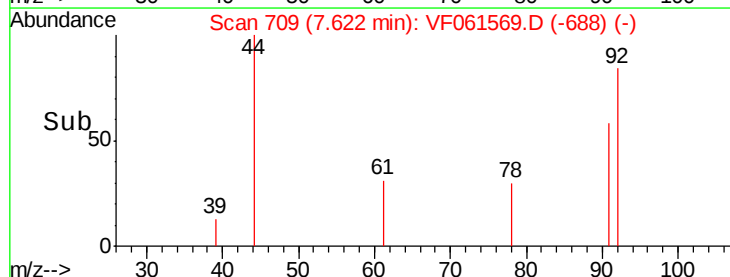
200

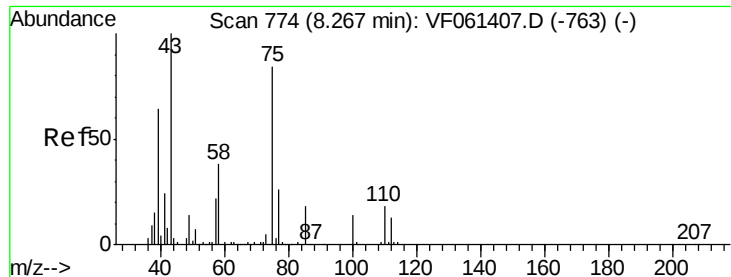
100

0

7.60 7.65 7.70

Time-->

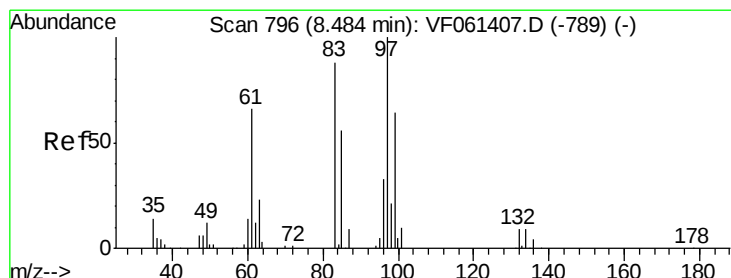
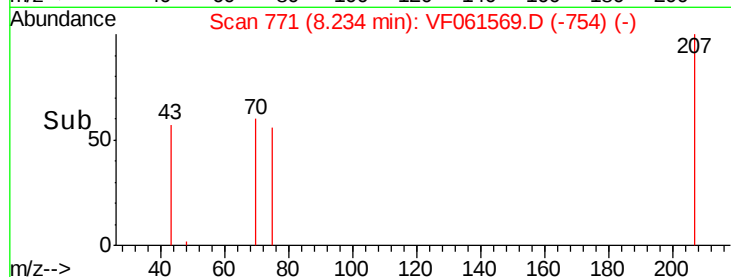
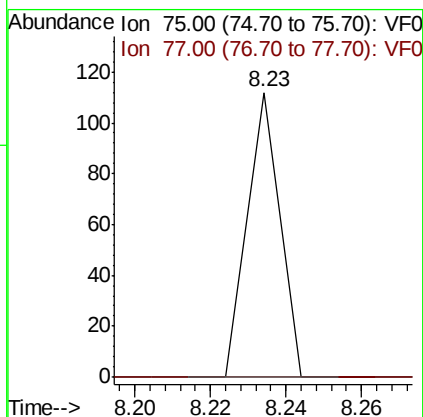
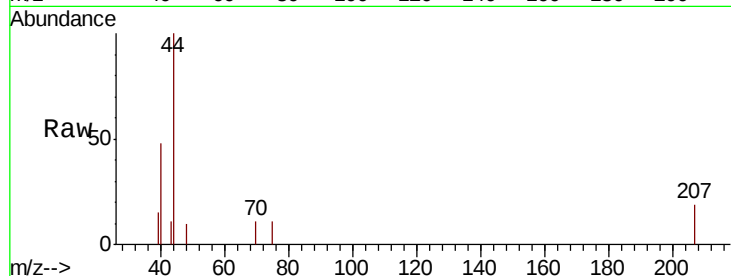




#53
t-1,3-Dichloropropene
Concen: 2.184 ug/l
RT: 8.23 min Scan# 771
Delta R.T. -0.03 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

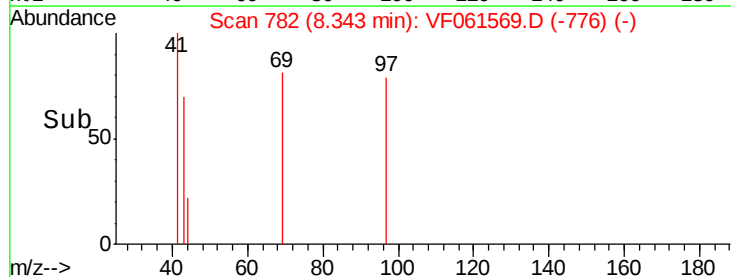
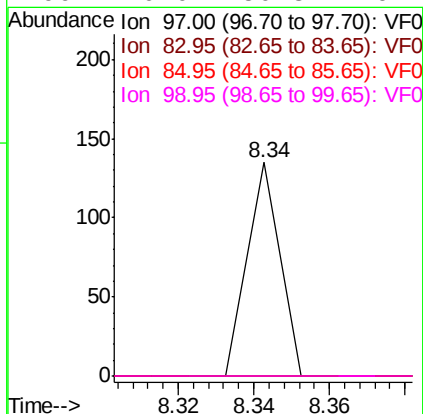
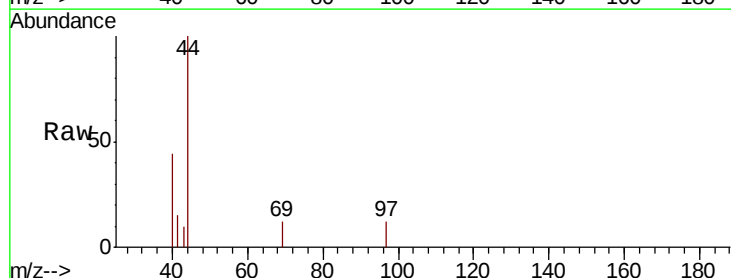
Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

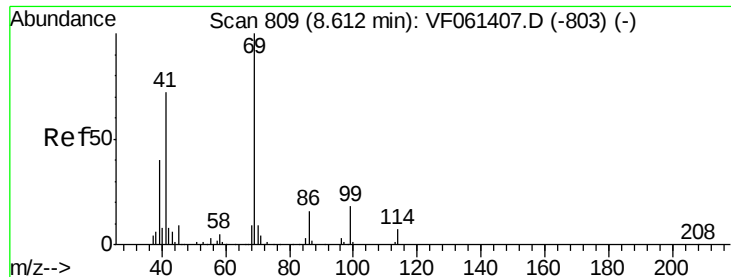
Tgt Ion: 75 Resp: 66
Ion Ratio Lower Upper
75 100
77 0.0 24.4 36.6#



#55
1,1,2-Trichloroethane
Concen: 4.854 ug/l
RT: 8.34 min Scan# 782
Delta R.T. -0.14 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion: 97 Resp: 80
Ion Ratio Lower Upper
97 100
83 0.0 70.4 105.6#
85 0.0 44.7 67.1#
99 0.0 50.8 76.2#





#56

Ethyl methacrylate

Concen: 3.077 ug/l

RT: 8.59 min Scan# 807

Delta R.T. -0.02 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

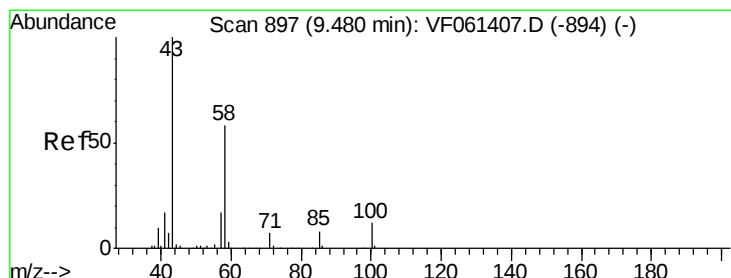
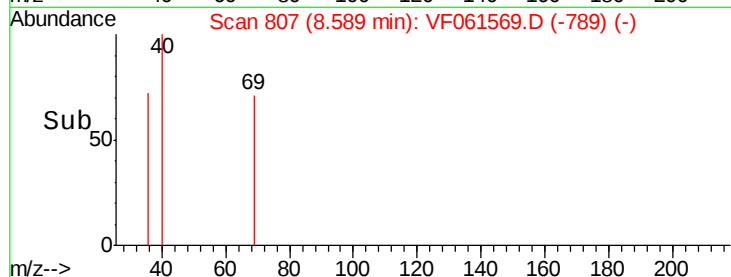
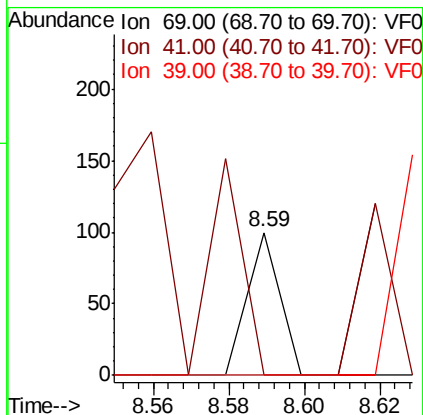
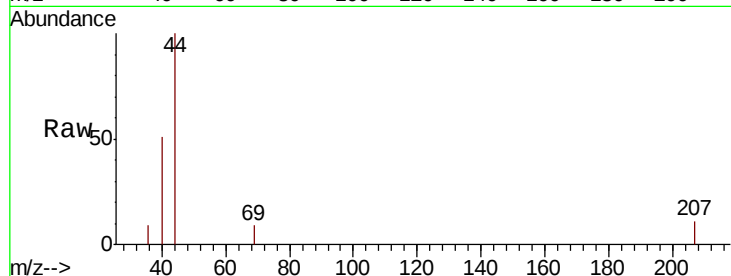
Tgt Ion: 69 Resp: 59

Ion Ratio Lower Upper

69 100

41 0.0 57.5 86.3#

39 0.0 32.0 48.0#



#59

2-Hexanone

Concen: 24.248 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.01 min

Lab File: VF061569.D

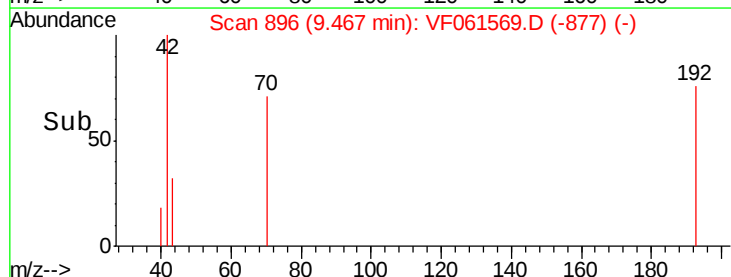
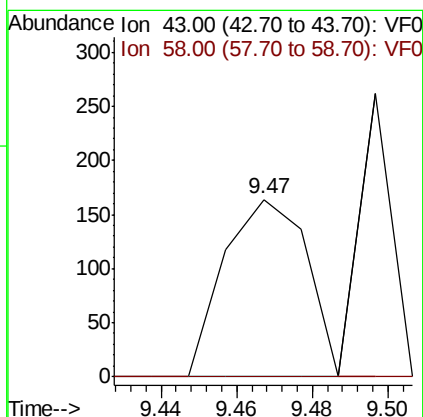
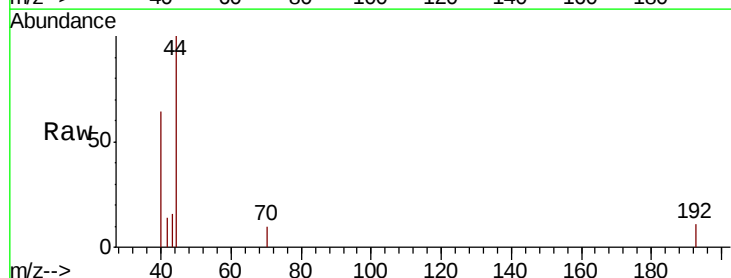
Acq: 8 Feb 2019 20:40

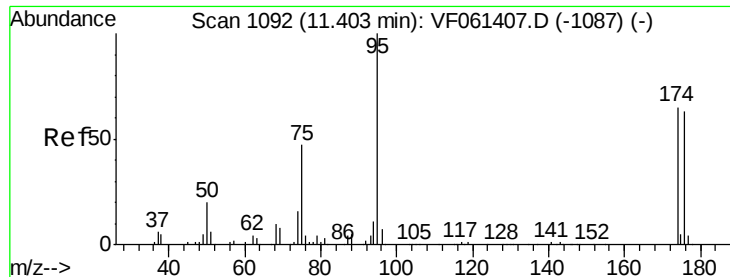
Tgt Ion: 43 Resp: 247

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#





#62

4-Bromofluorobenzene

Concen: 23.880 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

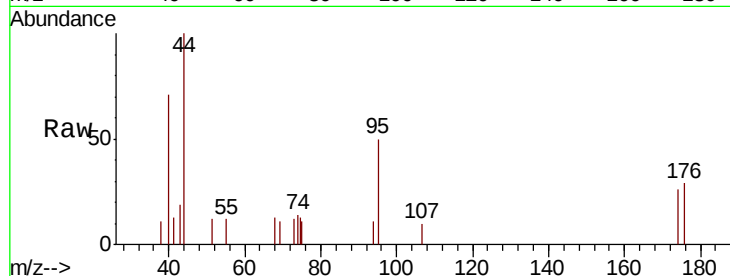
Tgt Ion: 95 Resp: 824

Ion Ratio Lower Upper

95 100

174 52.8 0.0 130.4

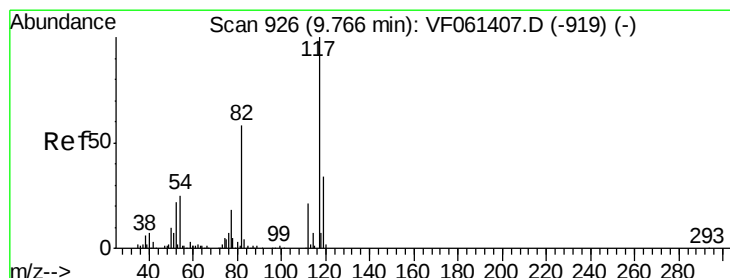
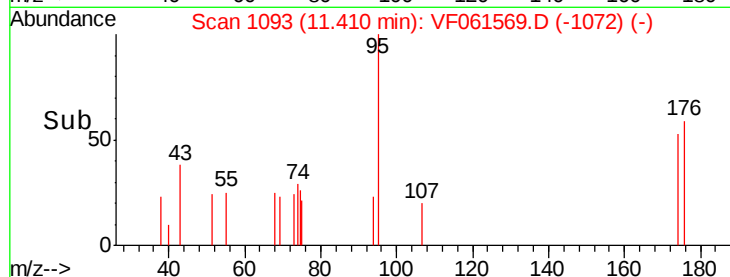
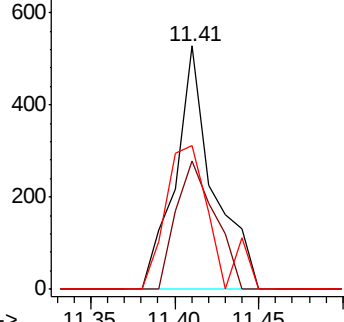
176 59.1 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

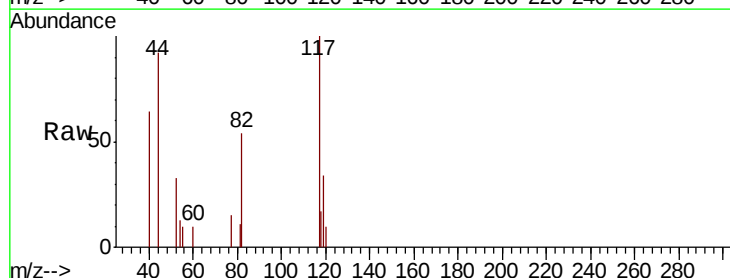
Tgt Ion: 117 Resp: 2622

Ion Ratio Lower Upper

117 100

82 54.0 46.4 69.6

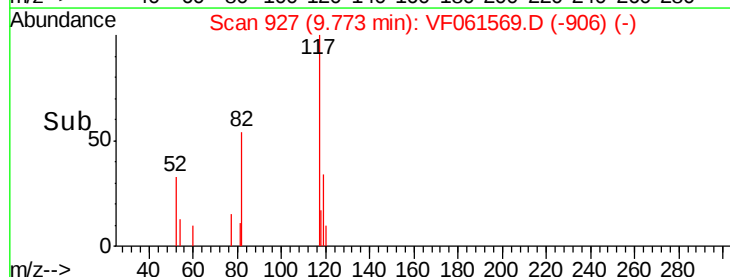
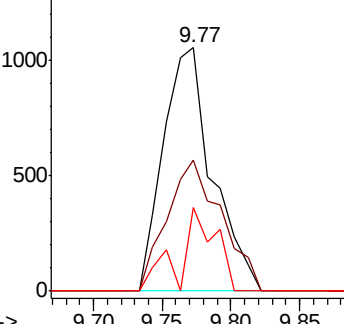
119 34.4 27.2 40.8

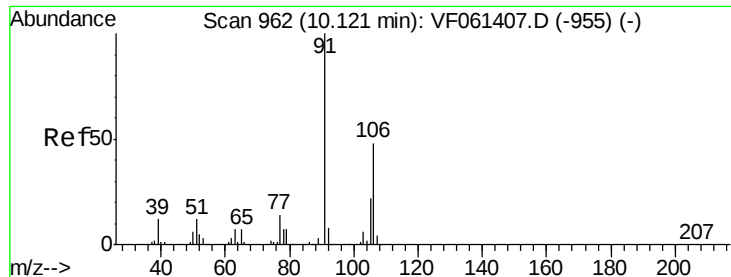


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

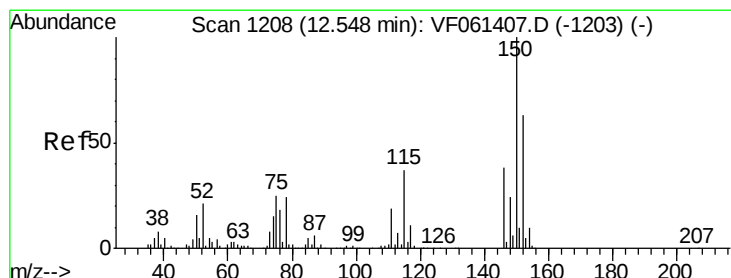
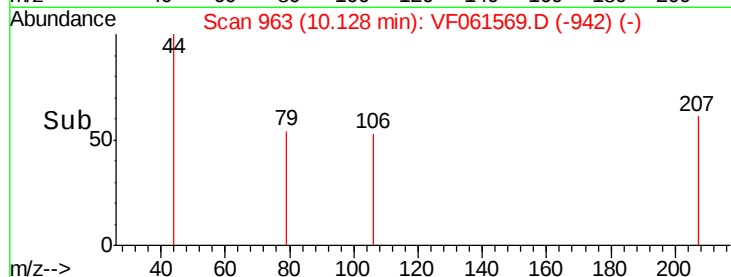
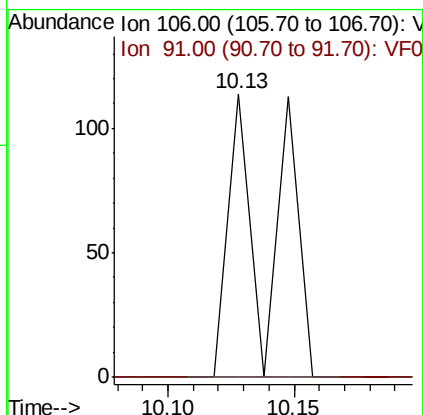
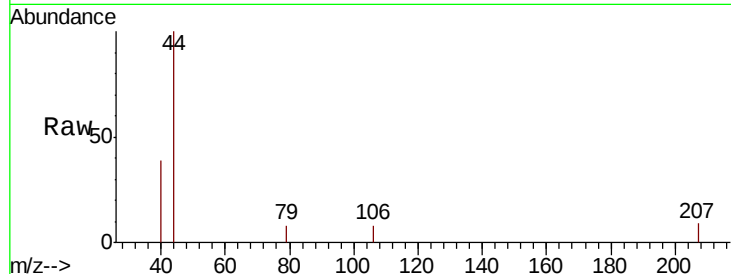




#68
m/p-Xylenes
Concen: 3.824 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

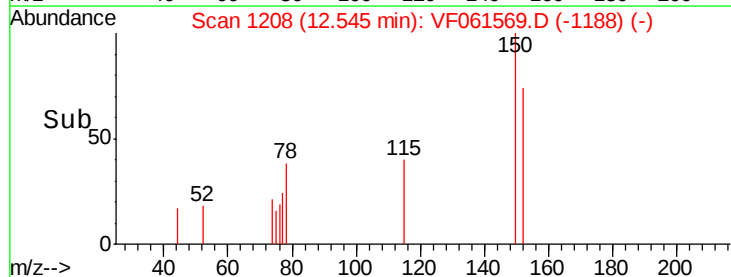
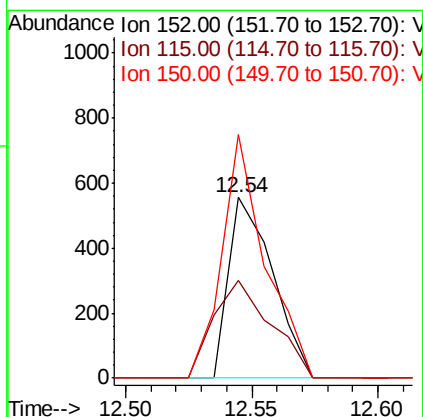
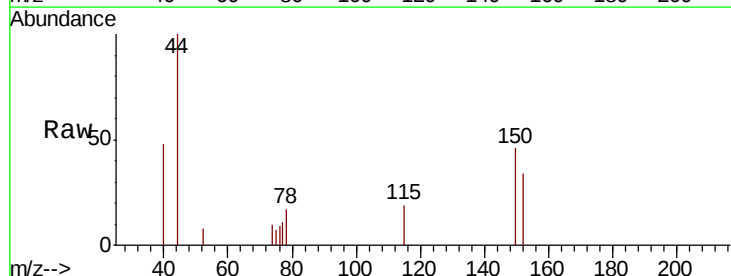
Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

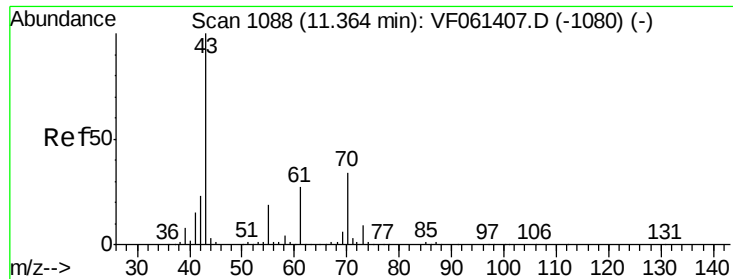
Tgt Ion:106 Resp: 134
Ion Ratio Lower Upper
106 100
91 0.0 166.2 249.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion:152 Resp: 676
Ion Ratio Lower Upper
152 100
115 54.2 30.0 90.0
150 135.0 0.0 321.4





#74

N-ethyl acetate

Concen: 7.846 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

Tgt Ion: 43 Resp: 102

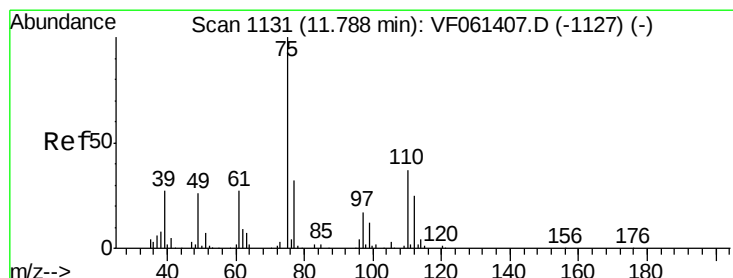
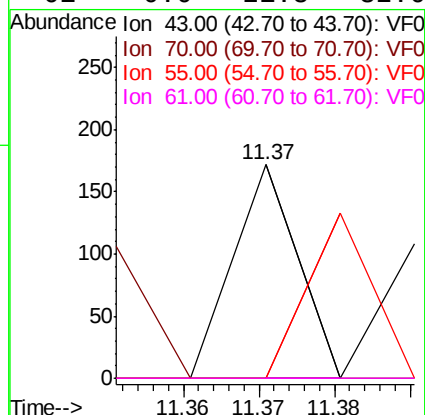
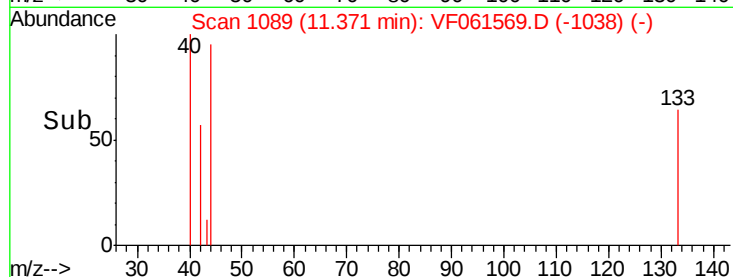
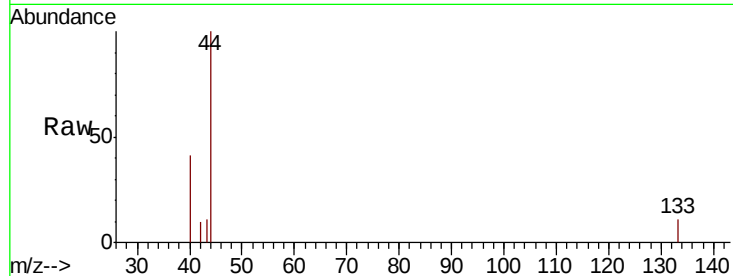
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 21.8 32.6#



#76

1,2,3-Trichloropropane

Concen: 9.378 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.10 min

Lab File: VF061569.D

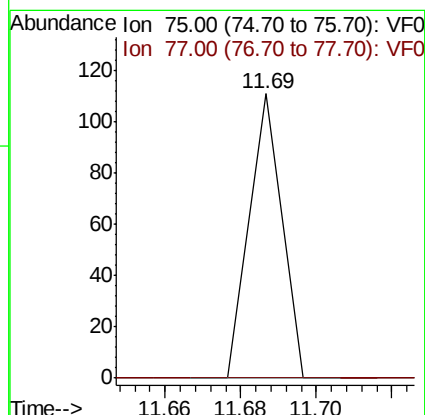
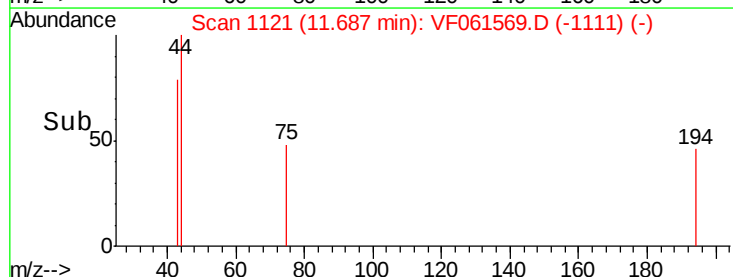
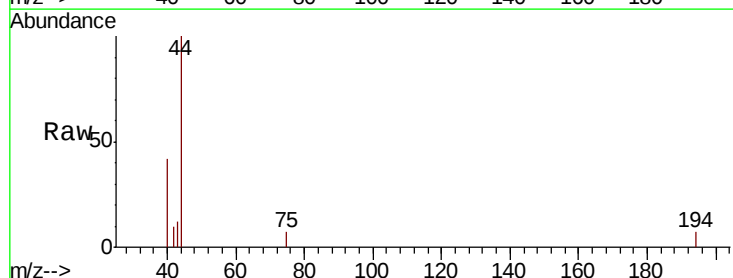
Acq: 8 Feb 2019 20:40

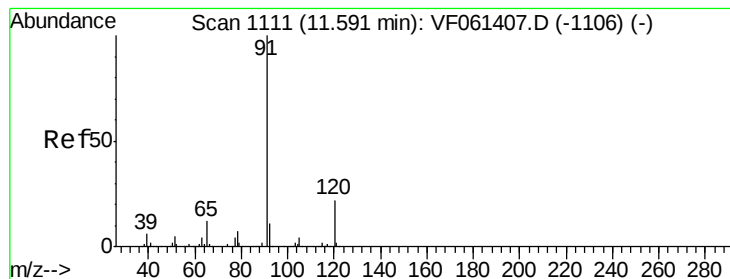
Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

77 0.0 16.1 48.3#





#78

n-propylbenzene

Concen: 1.073 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

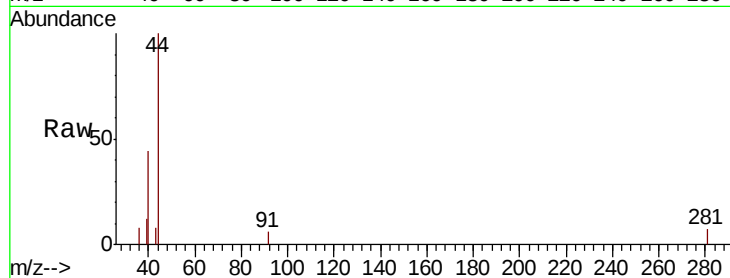
SU-03-020819-A

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

120 0.0 10.9 32.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.60

100

80

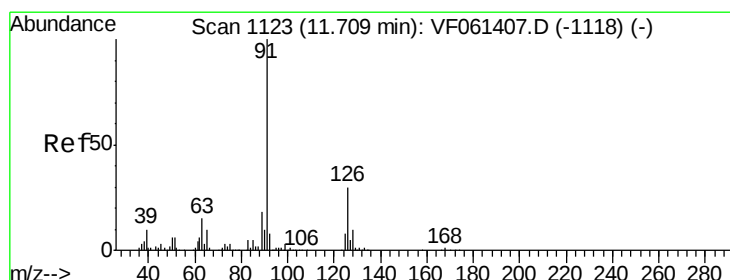
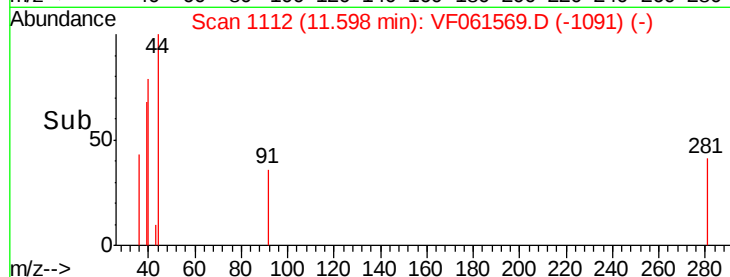
60

40

20

0

Time--> 11.56 11.58 11.60 11.62



#79

2-Chlorotoluene

Concen: 1.678 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.11 min

Lab File: VF061569.D

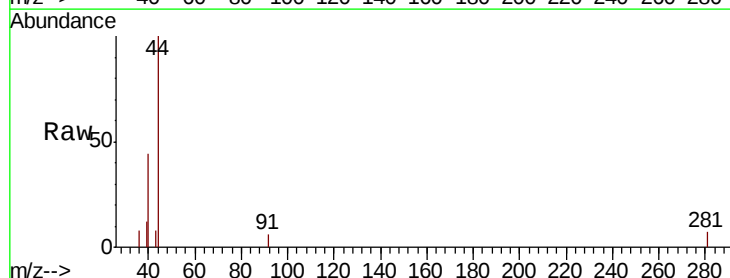
Acq: 8 Feb 2019 20:40

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

126 0.0 15.0 45.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.60

100

80

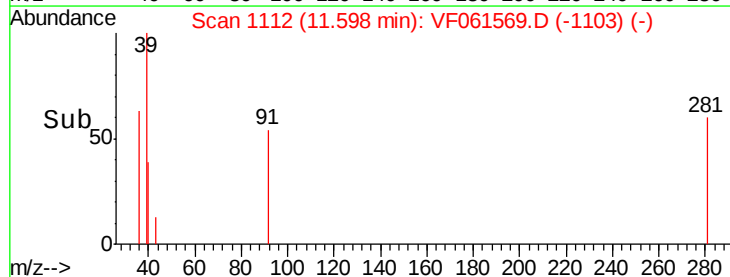
60

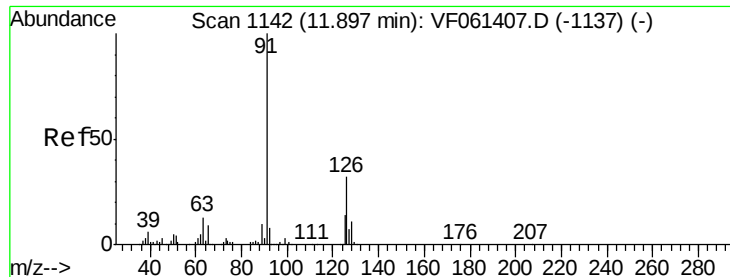
40

20

0

Time--> 11.56 11.58 11.60 11.62

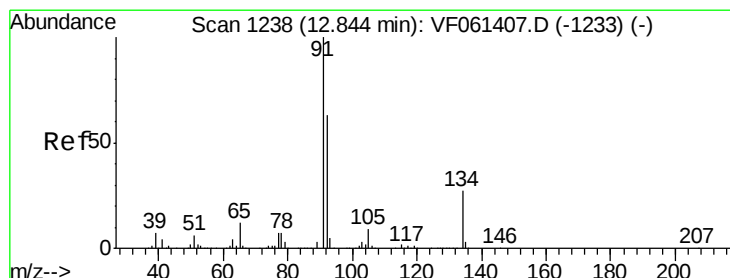
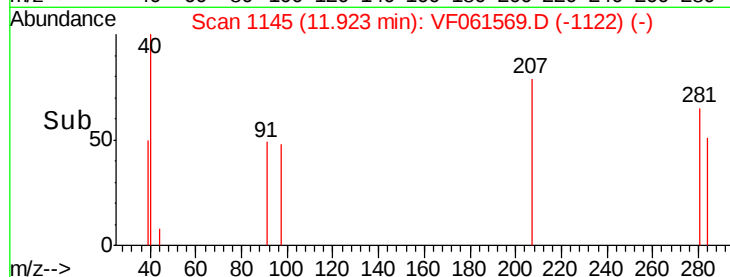
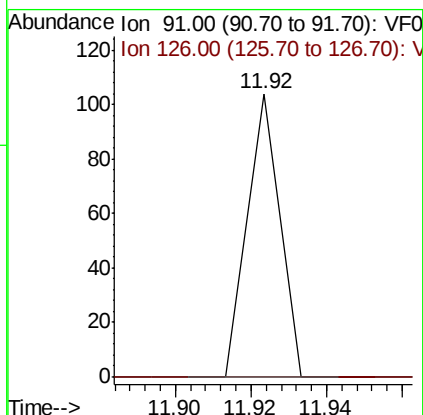
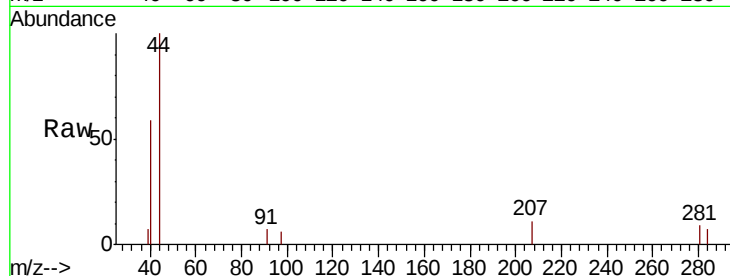




#82
4-Chlorotoluene
Concen: 1.611 ug/l
RT: 11.92 min Scan# 1145
Delta R.T. 0.03 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

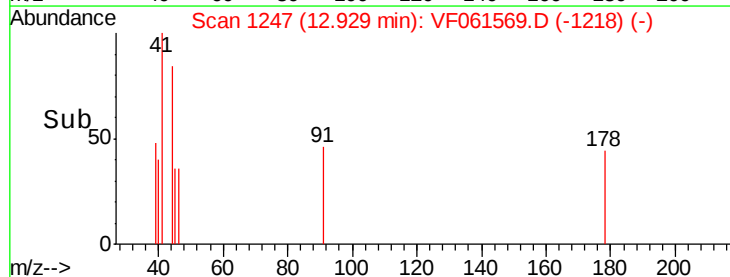
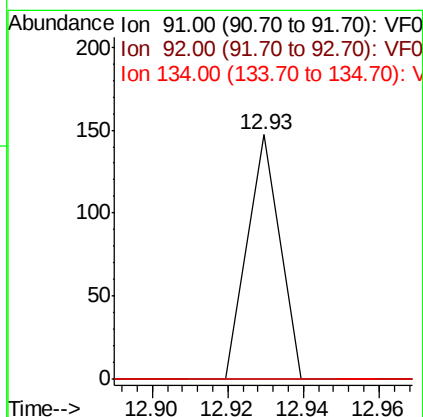
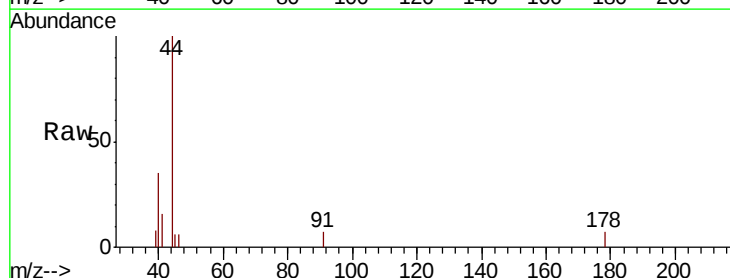
Instrument :
MSVOA_F
ClientSampleId :
SU-03-020819-A

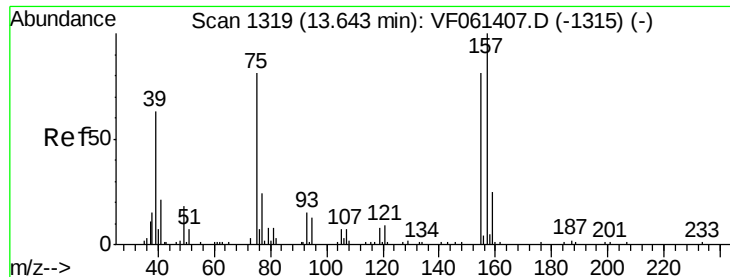
Tgt Ion: 91 Resp: 62
Ion Ratio Lower Upper
91 100
126 0.0 16.0 47.9#



#89
n-Butylbenzene
Concen: 1.648 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.09 min
Lab File: VF061569.D
Acq: 8 Feb 2019 20:40

Tgt Ion: 91 Resp: 87
Ion Ratio Lower Upper
91 100
92 0.0 31.6 94.7#
134 0.0 13.6 40.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 37.415 ug/l

RT: 13.60 min Scan# 1315

Delta R.T. -0.04 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

Instrument :

MSVOA_F

ClientSampleId :

SU-03-020819-A

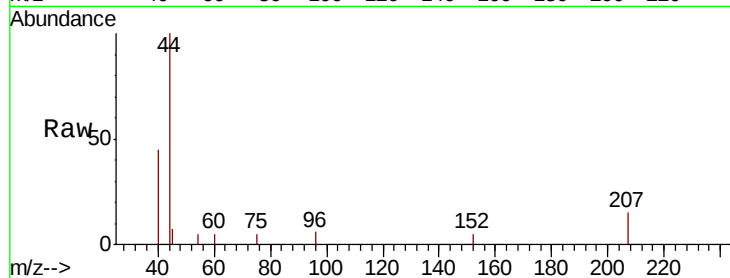
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 49.7 149.1#

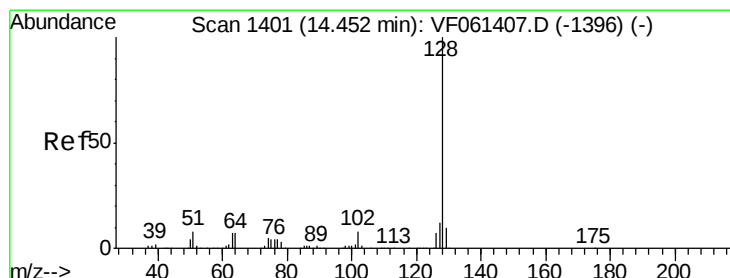
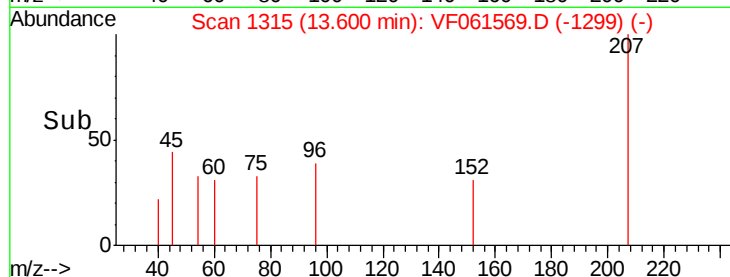
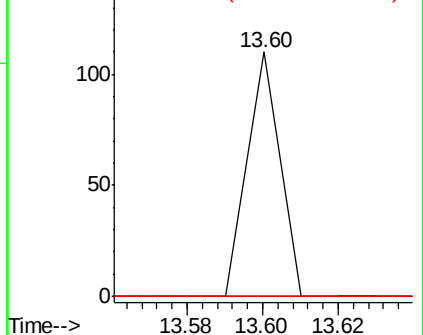
157 0.0 61.4 184.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#95

Naphthalene

Concen: 13.560 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061569.D

Acq: 8 Feb 2019 20:40

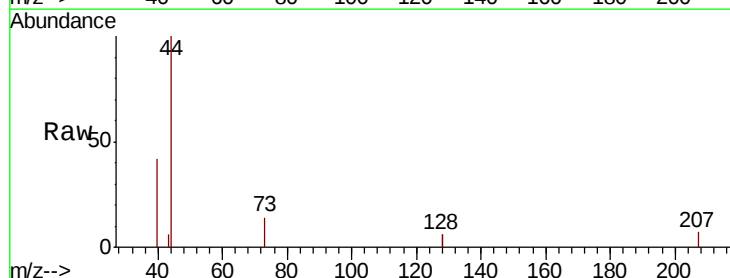
Tgt Ion: 128 Resp: 392

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

129 0.0 8.4 12.6#



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

