

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061146.D
 Acq On : 22 Dec 2018 15:59
 Operator : VA/AP
 Sample : J6192-03RE
 Misc : 7.73g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

Quant Time: Dec 24 02:57:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	2146	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	3193	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	1350	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	276	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	653	23.66	ug/l	0.04
Spiked Amount	50.000		Recovery	=	47.32%	
35) Dibromofluoromethane	4.14	113	1223	47.81	ug/l	0.03
Spiked Amount	50.000		Recovery	=	95.62%	
50) Toluene-d8	7.59	98	3980	54.91	ug/l	0.03
Spiked Amount	50.000		Recovery	=	109.82%	
62) 4-Bromofluorobenzene	11.43	95	620	18.55	ug/l	0.02
Spiked Amount	50.000		Recovery	=	37.10%	

Target Compounds

						Qvalue
3) Chloromethane	1.13	50	164	6.002	ug/l #	42
4) Vinyl Chloride	1.15	62	73	2.880	ug/l #	37
5) Bromomethane	1.34	94	749	42.600	ug/l #	48
8) Diethyl Ether	1.76	74	95	14.333	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	1.76	101	65	2.590	ug/l #	21
11) Tert butyl alcohol	2.69	59	62	55.664	ug/l #	1
12) 1,1-Dichloroethene	1.85	96	133	7.031	ug/l #	1
13) Acrolein	2.07	56	658	817.551	ug/l	96
14) Allyl chloride	2.05	41	741	37.641	ug/l #	41
15) Acrylonitrile	2.92	53	903	350.599	ug/l #	34
16) Acetone	2.18	43	2030	367.901	ug/l	97
17) Carbon Disulfide	1.97	76	102	1.784	ug/l #	1
18) Methyl Acetate	2.38	43	1161	101.701	ug/l #	66
19) Methyl tert-butyl Ether	2.53	73	349	8.312	ug/l #	18
20) Methylene Chloride	2.21	84	186	6.655	ug/l #	12
21) trans-1,2-Dichloroethene	2.32	96	385	19.029	ug/l #	1
22) Diisopropyl ether	2.79	45	907	13.832	ug/l #	30
23) Vinyl Acetate	3.21	43	478	15.801	ug/l #	78
24) 1,1-Dichloroethane	2.85	63	304	7.824	ug/l #	88
25) 2-Butanone	4.37	43	283	31.624	ug/l #	57
26) 2,2-Dichloropropane	3.68	77	81	3.633	ug/l #	62
27) cis-1,2-Dichloroethene	3.48	96	72	2.324	ug/l	1
28) Bromochloromethane	3.82	49	63	3.196	ug/l #	10
29) Tetrahydrofuran	4.06	42	208	57.107	ug/l #	37
31) Cyclohexane	3.73	56	62	1.538	ug/l #	15
32) 1,1,1-Trichloroethane	4.22	97	74	2.119	ug/l #	23
36) 1,1-Dichloropropene	4.28	75	96	2.491	ug/l #	43
37) Ethyl Acetate	4.12	43	120	6.833	ug/l #	21
39) Methylcyclohexane	5.60	83	68	1.967	ug/l #	7
41) Methacrylonitrile	4.78	41	253	31.083	ug/l #	27
43) Isopropyl Acetate	6.97	43	82	4.406	ug/l #	45
48) Methyl methacrylate	6.75	41	102	7.851	ug/l #	19
51) 4-Methyl-2-Pentanone	8.29	43	355	27.815	ug/l #	38
52) Toluene	7.67	92	156	2.843	ug/l #	57

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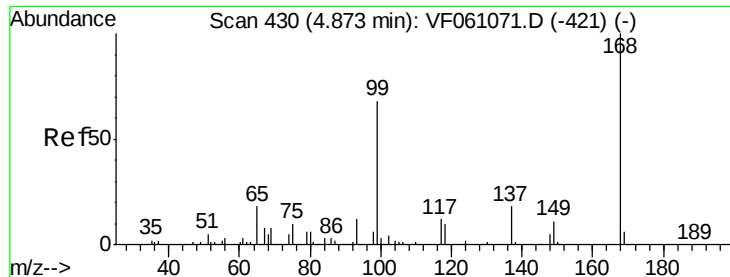
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) cis-1,3-Dichloropropene	7.40	75	76	1.975	ug/l #	27
59) 2-Hexanone	9.54	43	353	38.245	ug/l #	27
61) 1,2-Dibromoethane	8.95	107	59	3.359	ug/l #	4
67) Ethyl Benzene	10.02	91	79	1.555	ug/l #	47
74) N-amyl acetate	11.35	43	139	26.323	ug/l #	46
77) Bromobenzene	11.51	156	65	12.695	ug/l #	1
80) 1,3,5-Trimethylbenzene	11.68	105	61	3.115	ug/l #	27
82) 4-Chlorotoluene	12.01	91	92	5.451	ug/l #	43
84) 1,2,4-Trimethylbenzene	12.23	105	137	7.015	ug/l #	29
85) sec-Butylbenzene	12.35	105	145	5.513	ug/l #	58
86) p-Isopropyltoluene	12.46	119	73	3.344	ug/l #	9
87) 1,3-Dichlorobenzene	12.50	146	90	6.042	ug/l #	25
88) 1,4-Dichlorobenzene	12.50	146	90	9.573	ug/l #	25
89) n-Butylbenzene	12.87	91	86	3.474	ug/l #	26

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

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Instrument :

MSVOA_F

ClientSampleId :

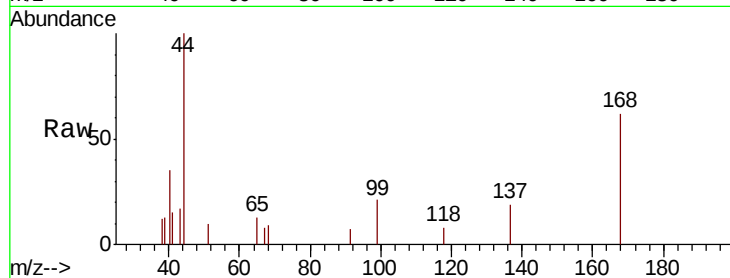
HD-01-122018RE

Tot Ion:168 Resp: 2146

Ion Ratio Lower Upper

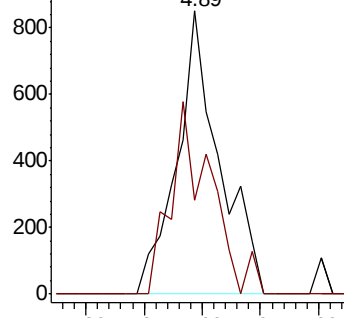
168 100

99 33.3 54.4 81.6#

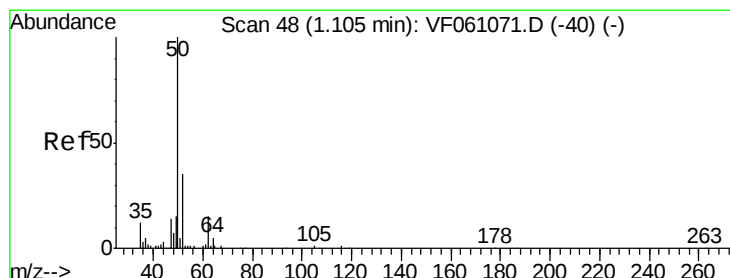
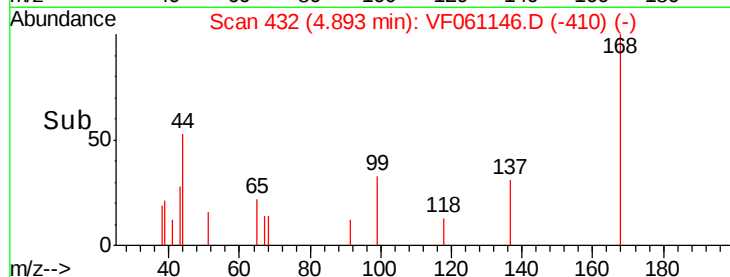


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



Time-->



#3

Chloromethane

Concen: 6.002 ug/l

RT: 1.13 min Scan# 50

Delta R.T. 0.02 min

Lab File: VF061146.D

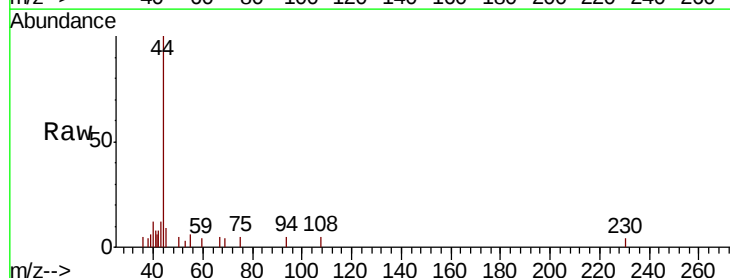
Acq: 22 Dec 2018 15:59

Tgt Ion: 50 Resp: 164

Ion Ratio Lower Upper

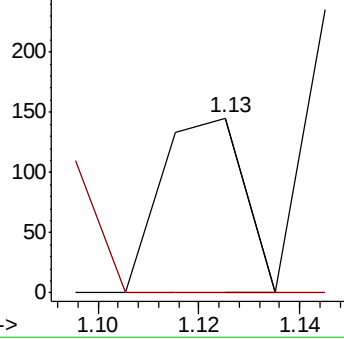
50 100

52 0.0 26.3 39.5#

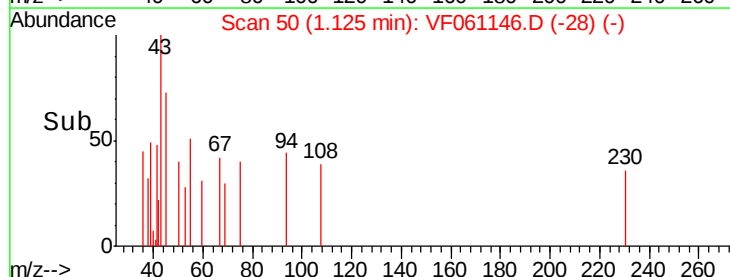


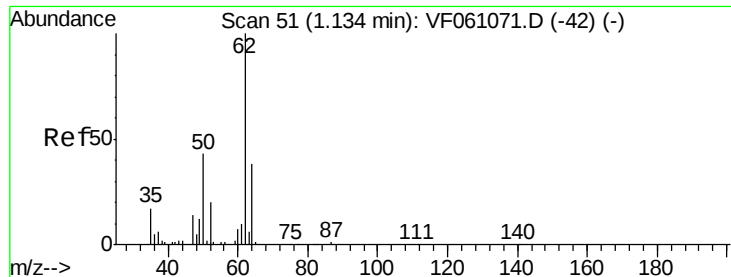
Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->





#4

Vinyl Chloride

Concen: 2.880 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

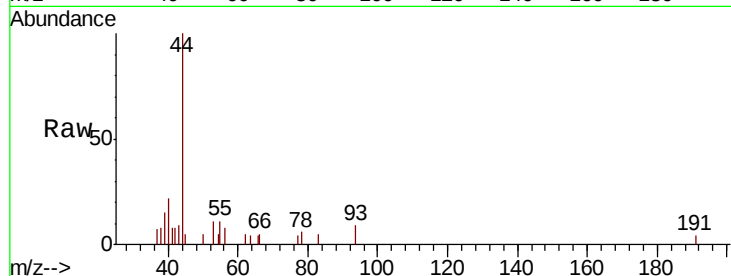
HD-01-122018RE

Tot Ion: 62 Resp: 73

Ion Ratio Lower Upper

62 100

64 0.0 30.4 45.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

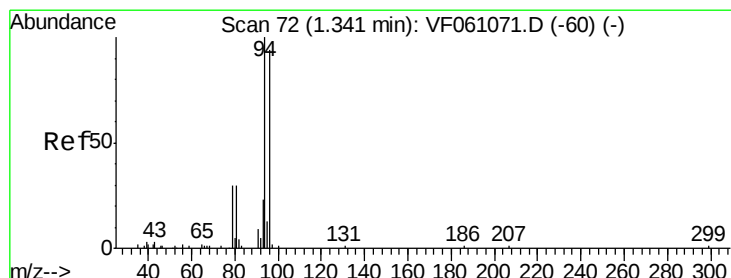
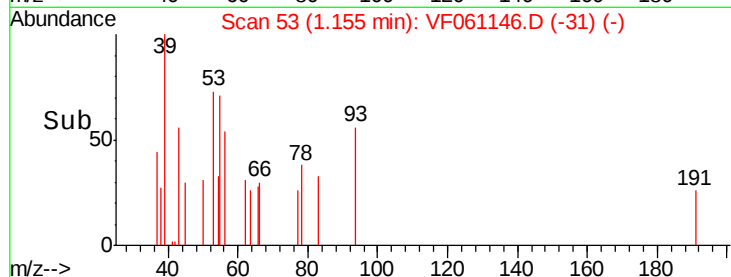
1.15

100

50

0

Time--> 1.12 1.14 1.16 1.18



#5

Bromomethane

Concen: 42.600 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF061146.D

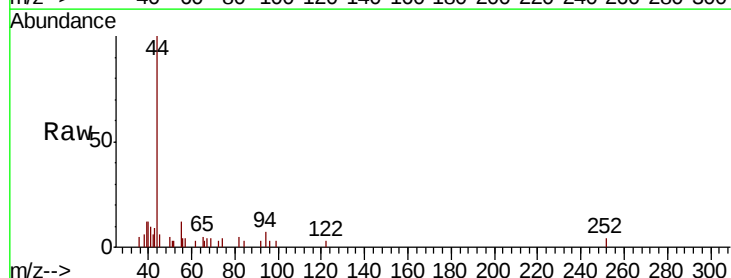
Acq: 22 Dec 2018 15:59

Tgt Ion: 94 Resp: 749

Ion Ratio Lower Upper

94 100

96 43.3 74.4 111.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

400

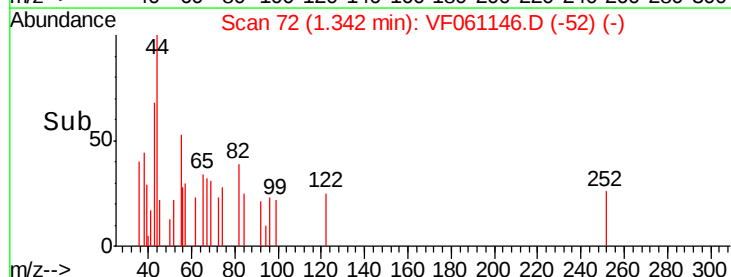
300

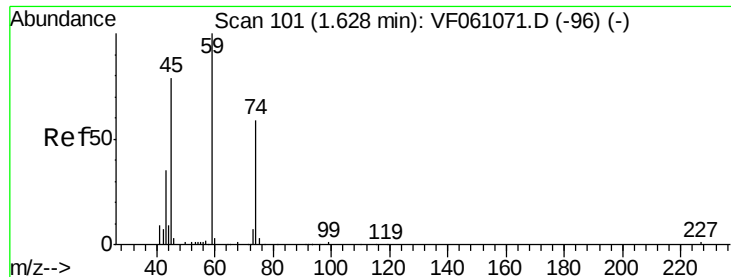
200

100

0

Time--> 1.30 1.35 1.40





#8

Diethyl Ether

Concen: 14.333 ug/l

RT: 1.76 min Scan# 114

Delta R.T. 0.13 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

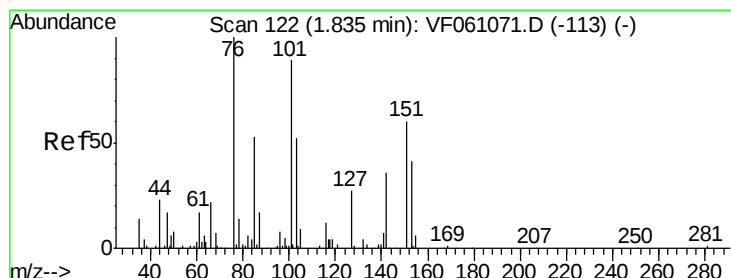
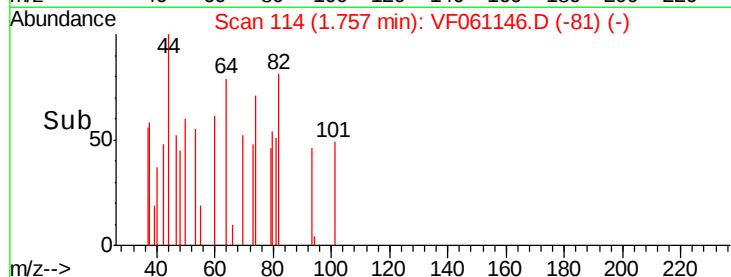
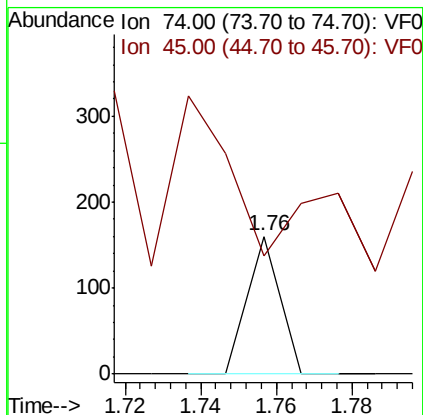
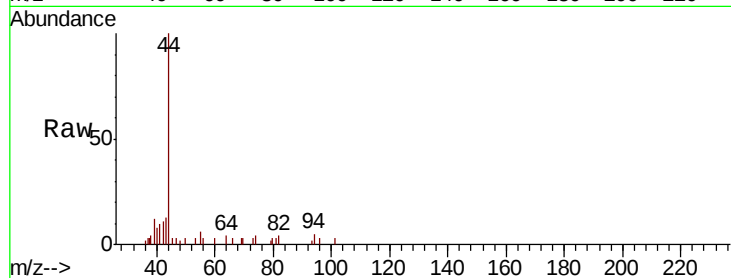
HD-01-122018RE

Tot Ion: 74 Resp: 95

Ion Ratio Lower Upper

74 100

45 86.3 67.8 203.4



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.590 ug/l

RT: 1.76 min Scan# 114

Delta R.T. -0.08 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

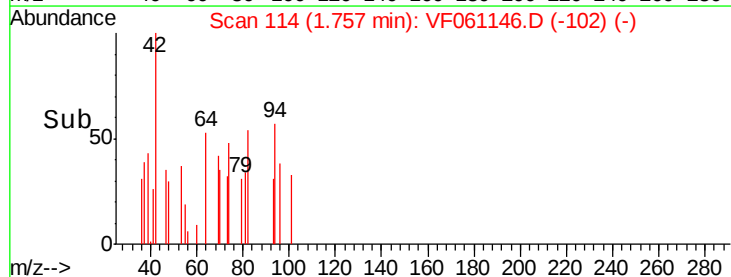
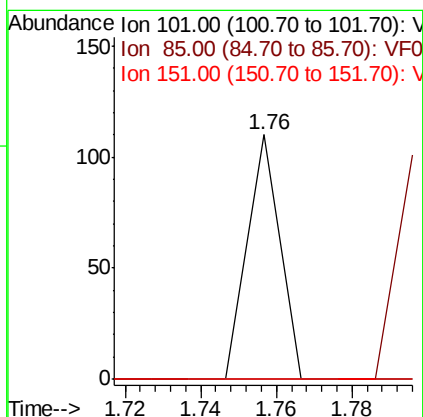
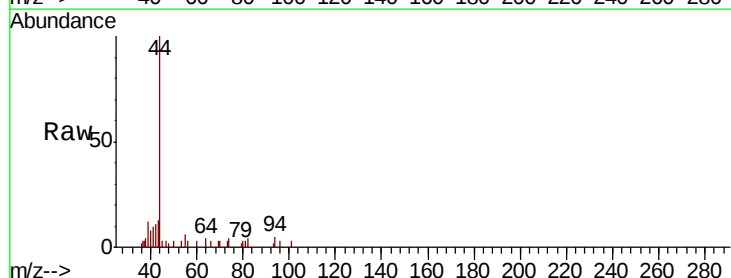
Tgt Ion: 101 Resp: 65

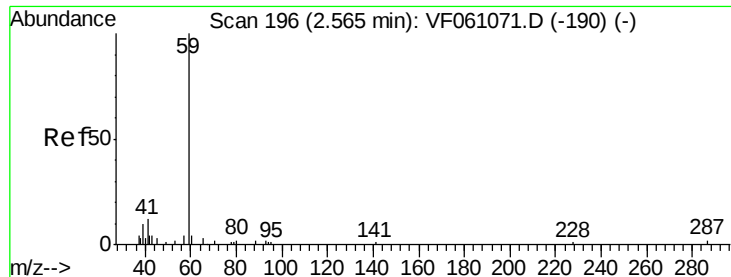
Ion Ratio Lower Upper

101 100

85 0.0 44.5 66.7#

151 0.0 49.9 74.9#



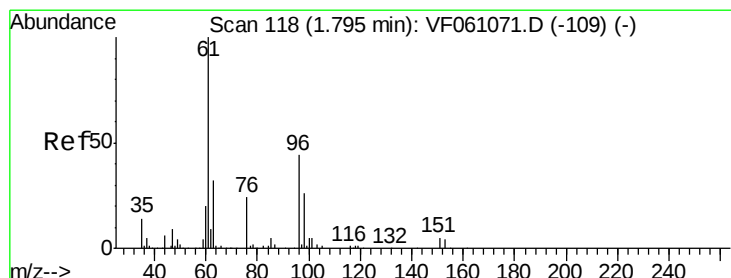
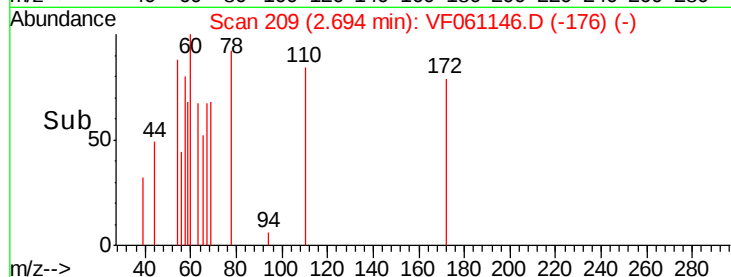
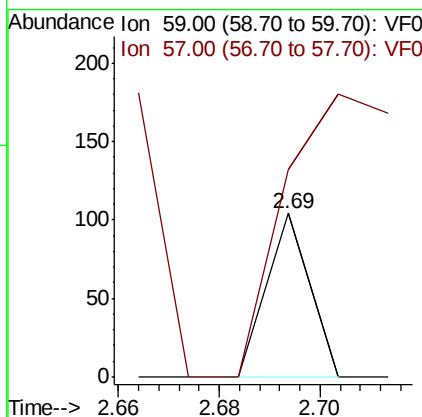
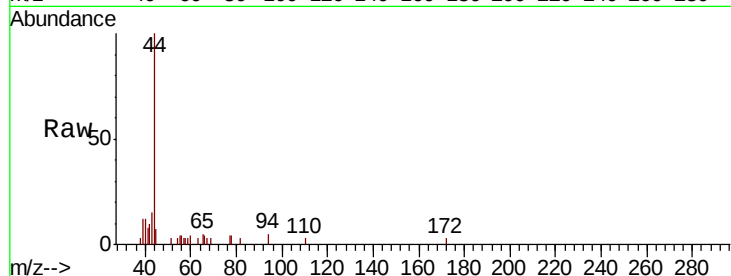


#11

Tert butyl alcohol
 Concen: 55.664 ug/l
 RT: 2.69 min Scan# 209
 Delta R.T. 0.13 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

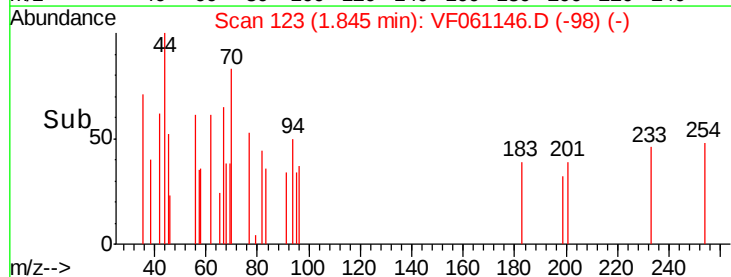
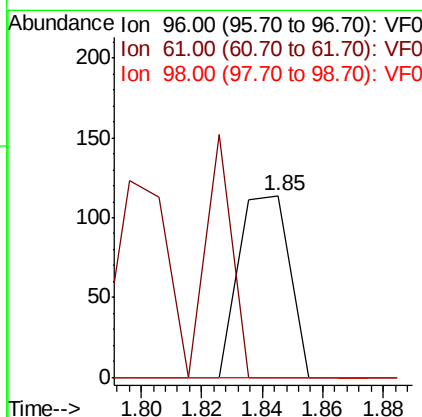
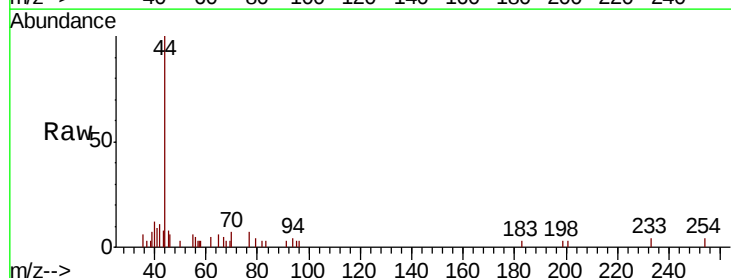
Tot Ion: 59 Resp: 62
 Ion Ratio Lower Upper
 59 100
 57 245.2 11.5 17.3#

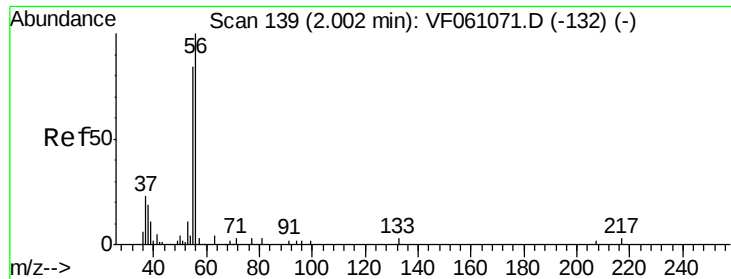


#12

1,1-Dichloroethene
 Concen: 7.031 ug/l
 RT: 1.85 min Scan# 123
 Delta R.T. 0.05 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion: 96 Resp: 133
 Ion Ratio Lower Upper
 96 100
 61 0.0 182.0 273.0#
 98 0.0 46.5 69.7#





#13

Acrolein

Concen: 817.551 ug/l

RT: 2.07 min Scan# 146

Delta R.T. 0.07 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

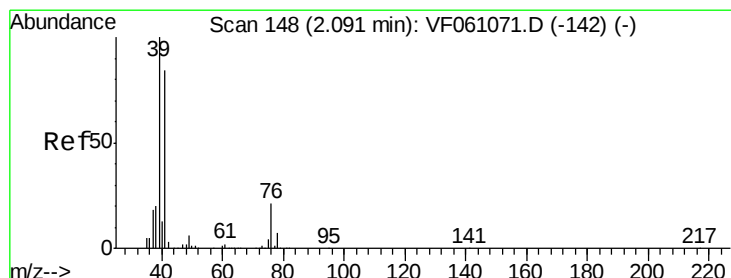
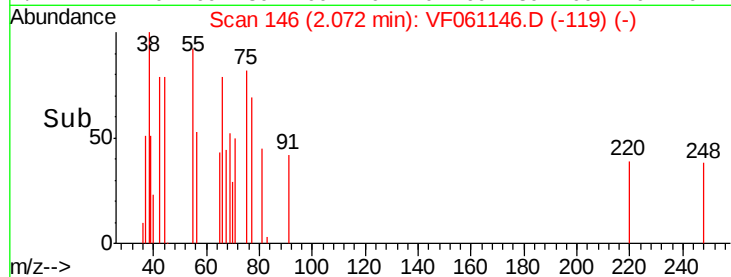
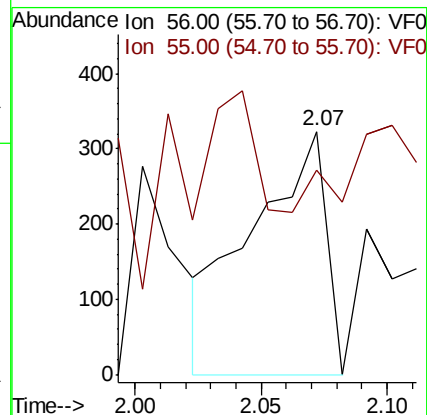
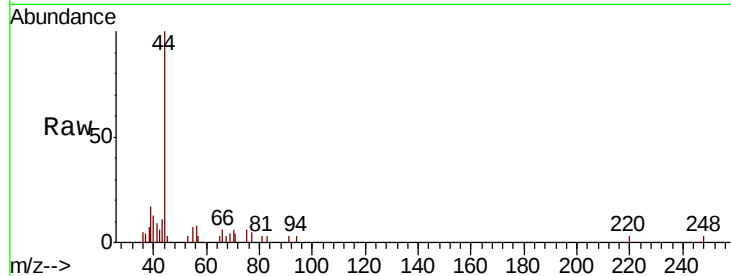
HD-01-122018RE

Tot Ion: 56 Resp: 658

Ion Ratio Lower Upper

56 100

55 83.9 70.2 105.2



#14

Allyl chloride

Concen: 37.641 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.04 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

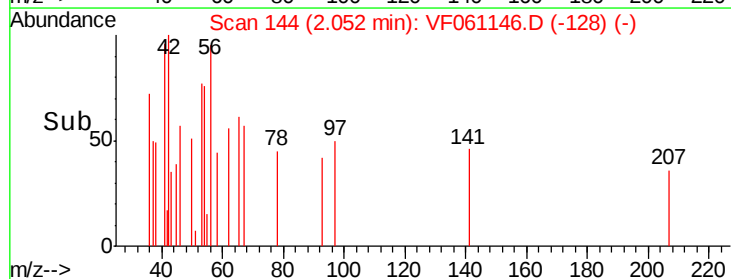
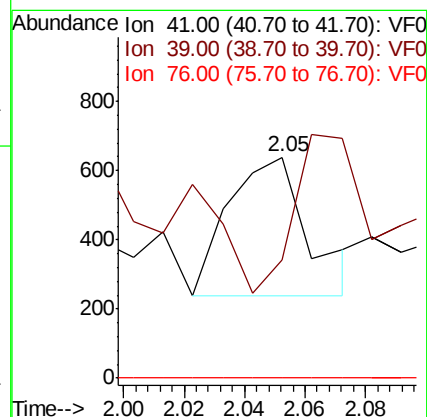
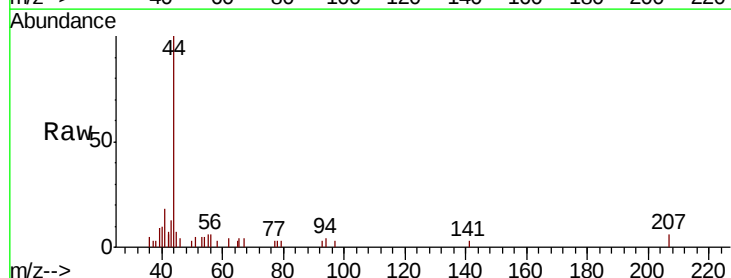
Tgt Ion: 41 Resp: 741

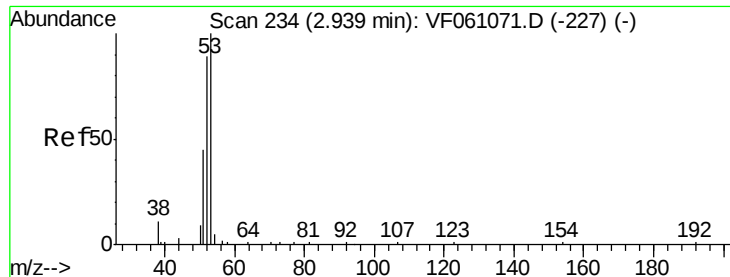
Ion Ratio Lower Upper

41 100

39 53.5 96.4 144.6#

76 0.0 25.4 38.0#





#15

Acrylonitrile

Concen: 350.599 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

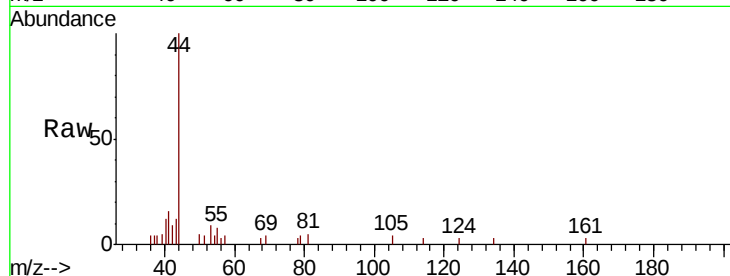
Tot Ion: 53 Resp: 903

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

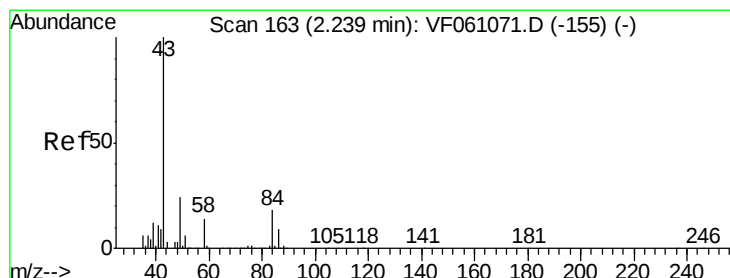
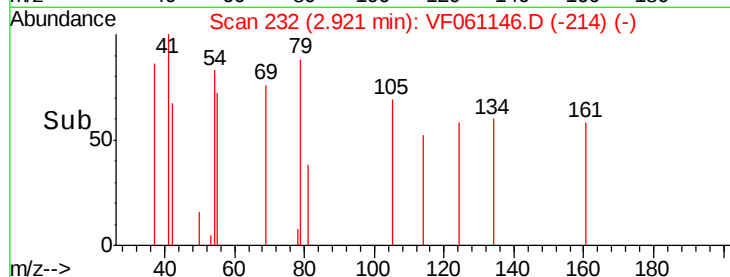
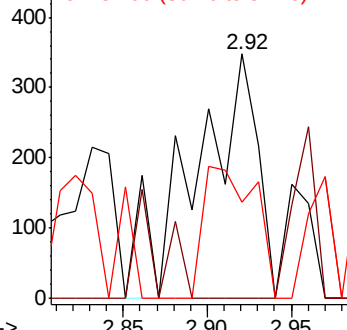
51 39.4 36.8 55.2



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



#16

Acetone

Concen: 367.901 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.06 min

Lab File: VF061146.D

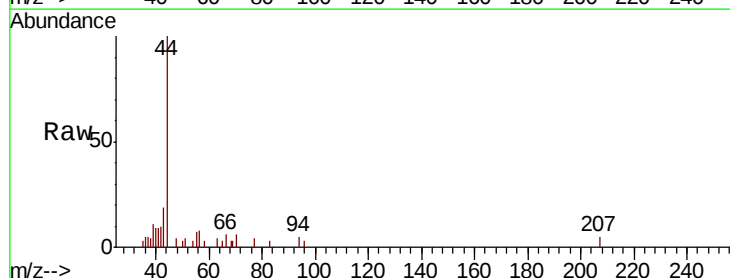
Acq: 22 Dec 2018 15:59

Tgt Ion: 43 Resp: 2030

Ion Ratio Lower Upper

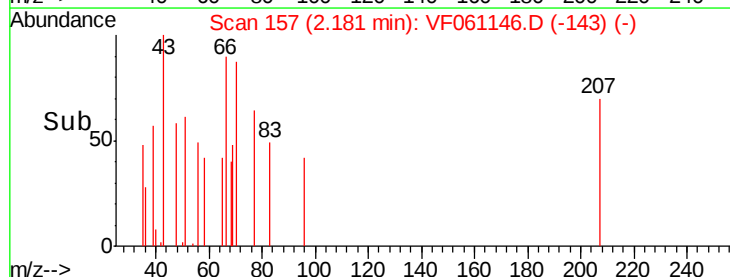
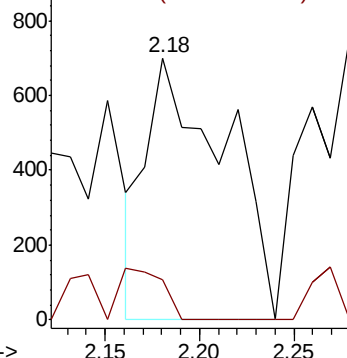
43 100

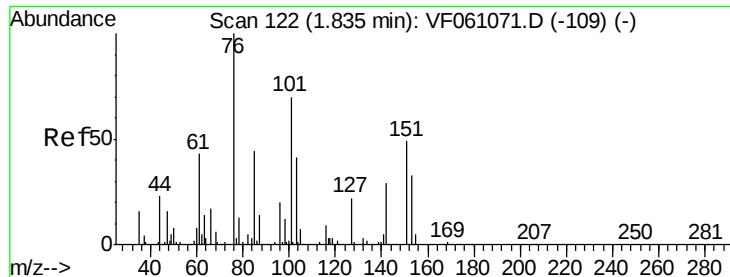
58 15.1 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 1.784 ug/l

RT: 1.97 min Scan# 136

Delta R.T. 0.14 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

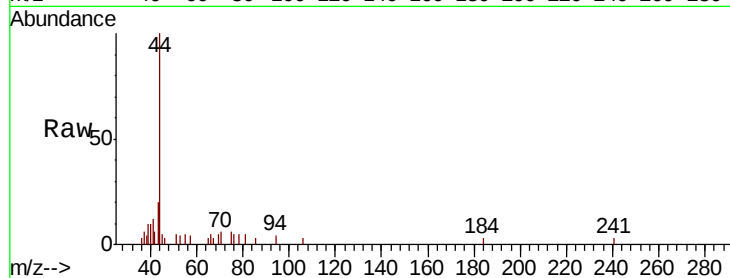
HD-01-122018RE

Tot Ion: 76 Resp: 102

Ion Ratio Lower Upper

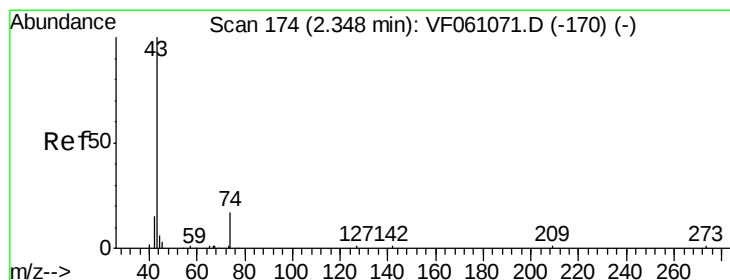
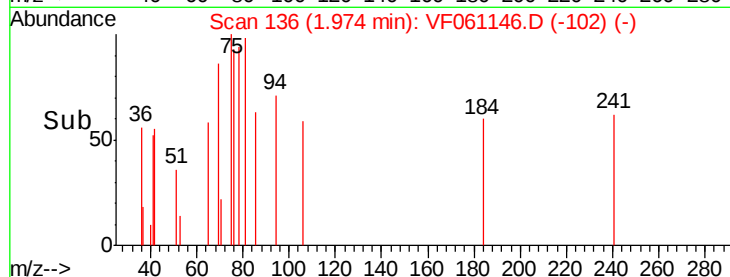
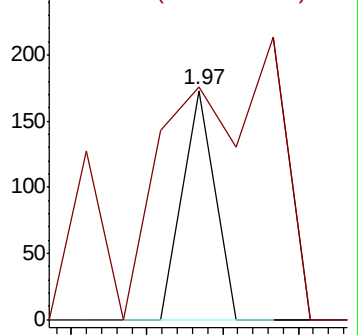
76 100

78 101.7 10.2 15.4#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 101.701 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF061146.D

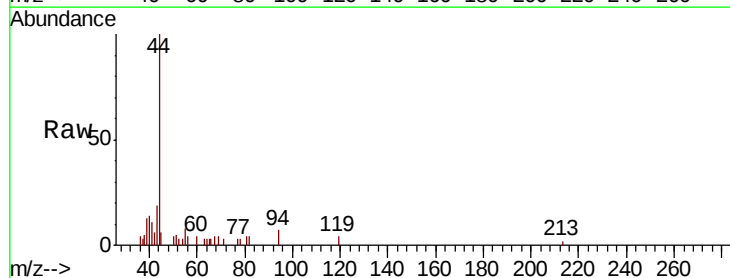
Acq: 22 Dec 2018 15:59

Tgt Ion: 43 Resp: 1161

Ion Ratio Lower Upper

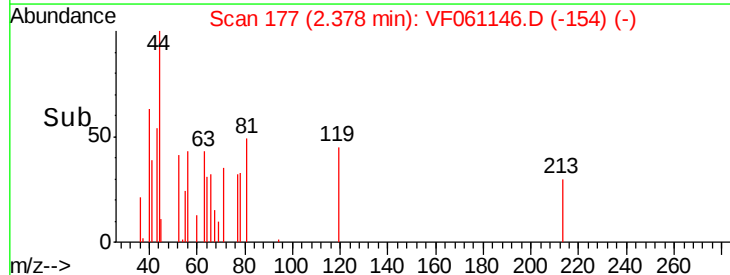
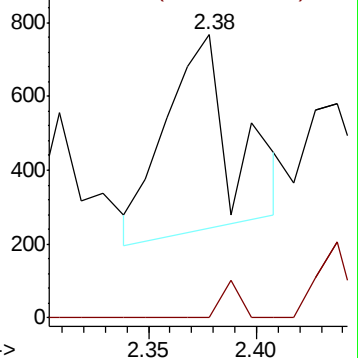
43 100

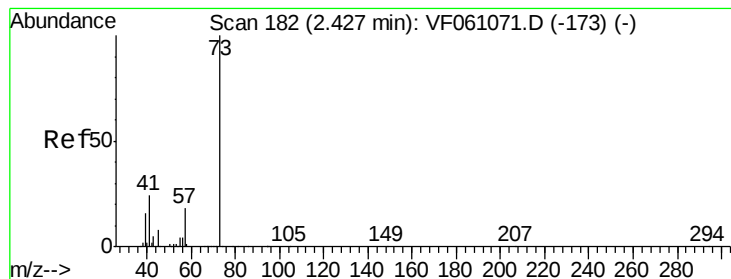
74 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#19

Methyl tert-butyl Ether

Concen: 8.312 ug/l

RT: 2.53 min Scan# 192

Delta R.T. 0.10 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

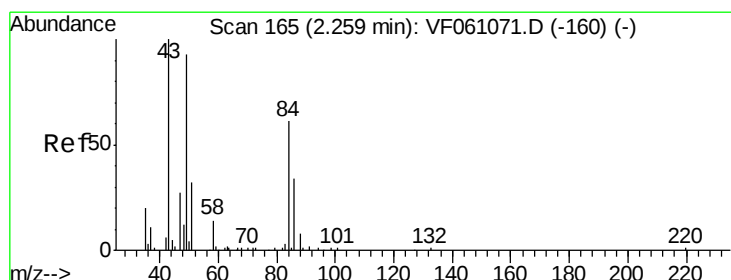
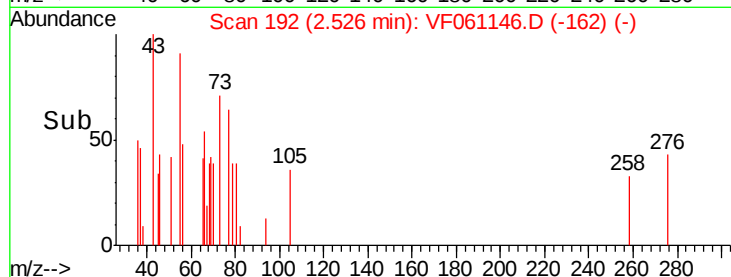
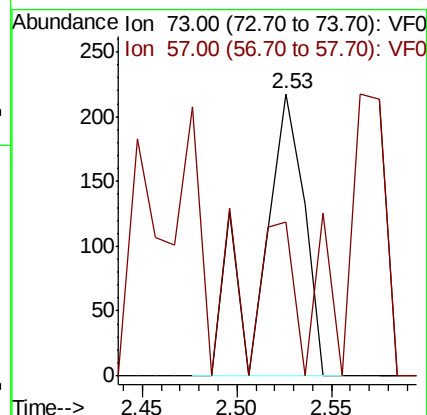
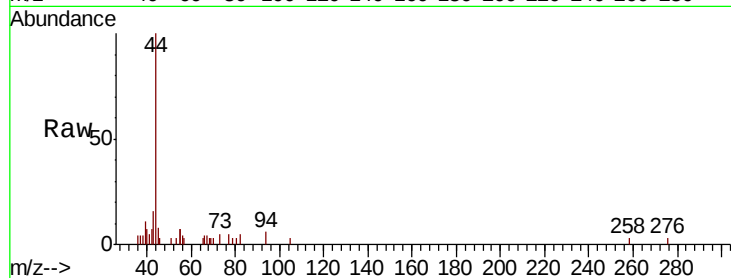
HD-01-122018RE

Tot Ion: 73 Resp: 349

Ion Ratio Lower Upper

73 100

57 54.6 14.5 21.7#



#20

Methylene Chloride

Concen: 6.655 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.05 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Tgt Ion: 84 Resp: 186

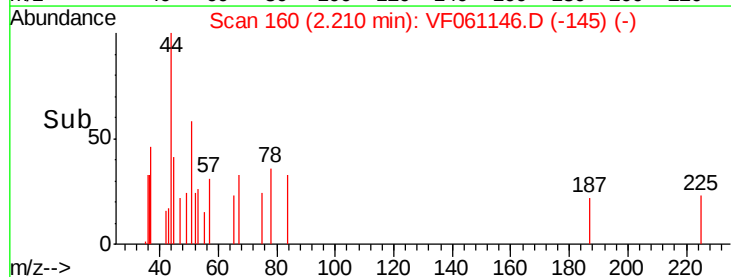
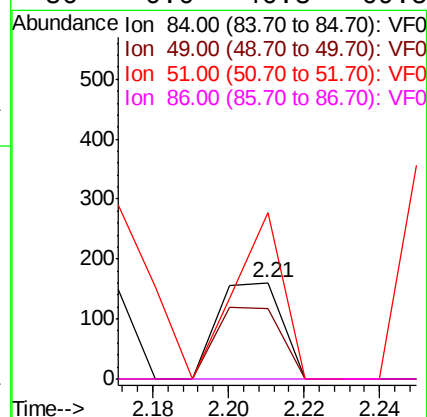
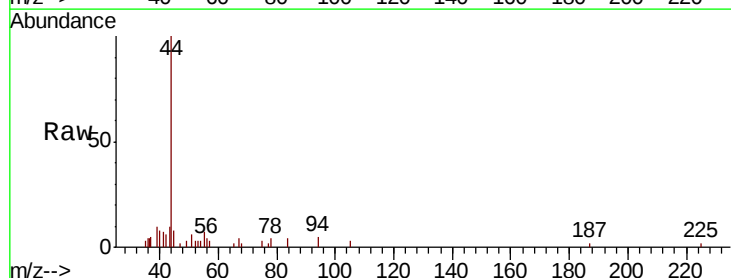
Ion Ratio Lower Upper

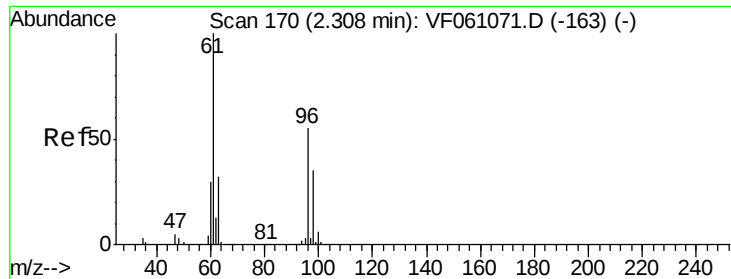
84 100

49 73.1 129.4 194.2#

51 173.1 44.0 66.0#

86 0.0 46.3 69.5#





#21

trans-1,2-Dichloroethene

Concen: 19.029 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

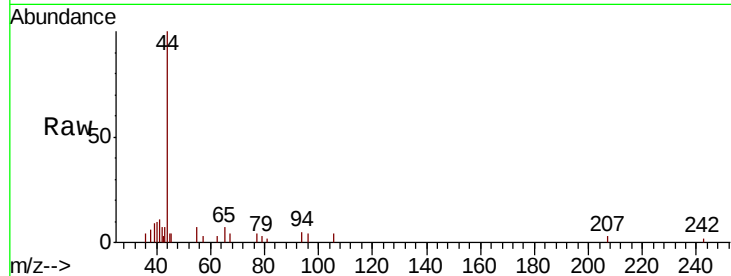
Tot Ion: 96 Resp: 385

Ion Ratio Lower Upper

96 100

61 0.0 146.0 219.0#

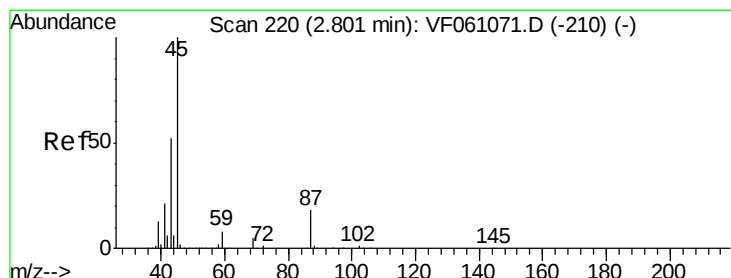
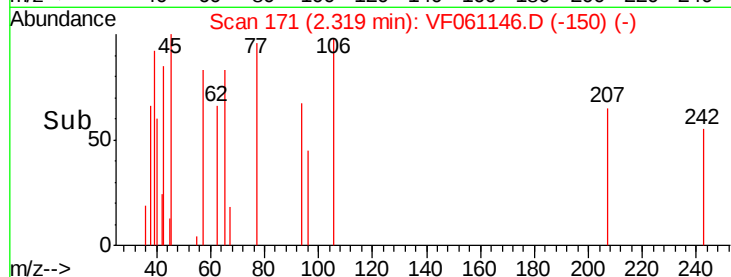
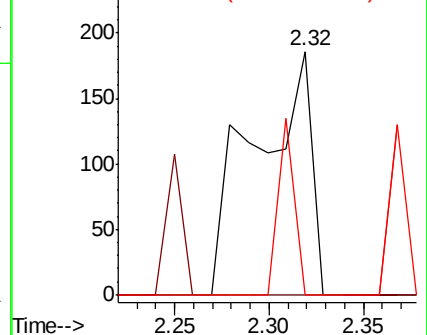
98 0.0 51.6 77.4#



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



#22

Diisopropyl ether

Concen: 13.832 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Tgt Ion: 45 Resp: 907

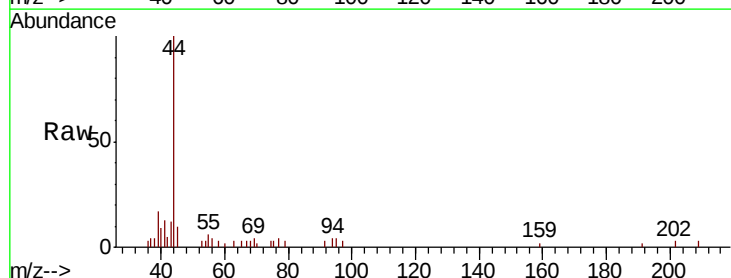
Ion Ratio Lower Upper

45 100

43 114.8 42.2 63.2#

87 0.0 14.6 22.0#

59 0.0 7.0 10.4#

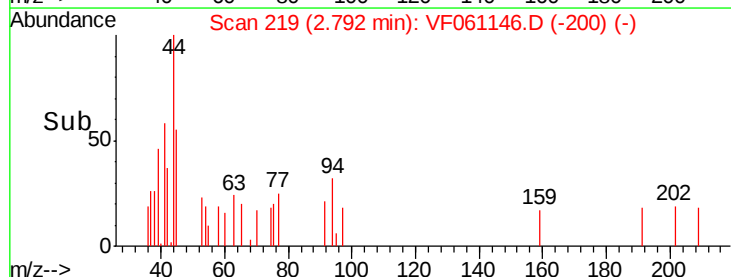
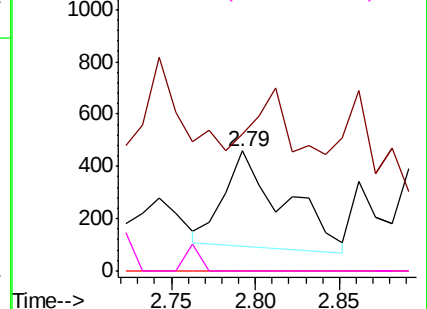


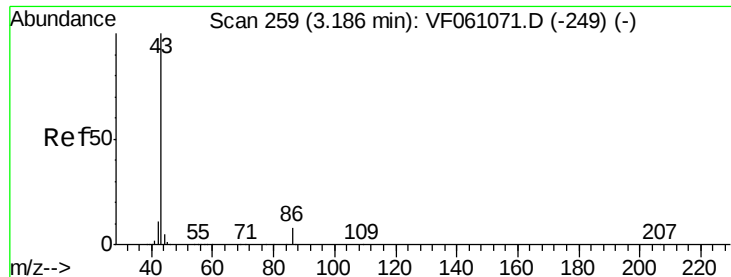
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 15.801 ug/l

RT: 3.21 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

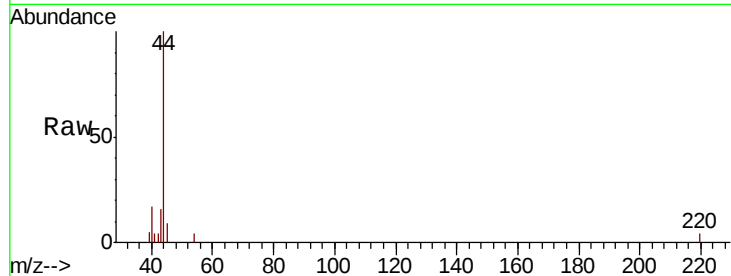
HD-01-122018RE

Tot Ion: 43 Resp: 478

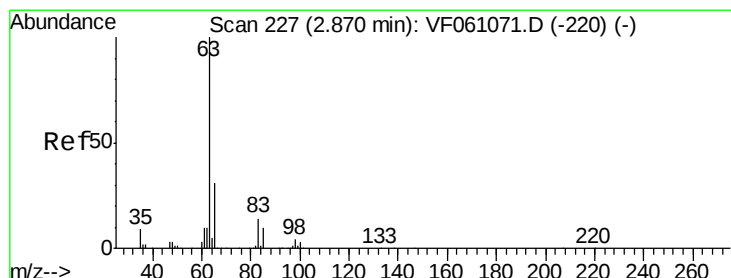
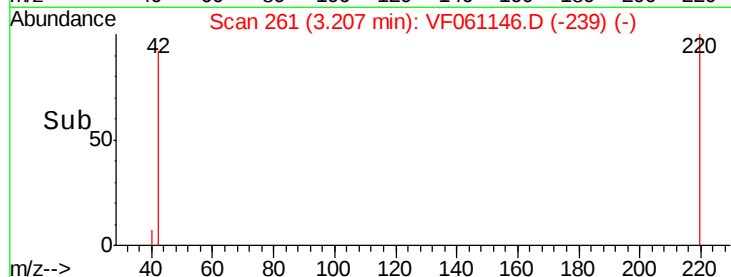
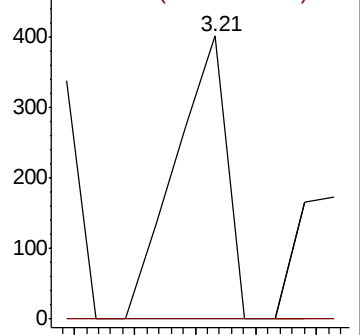
Ion Ratio Lower Upper

43 100

86 0.0 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#24

1,1-Dichloroethane

Concen: 7.824 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

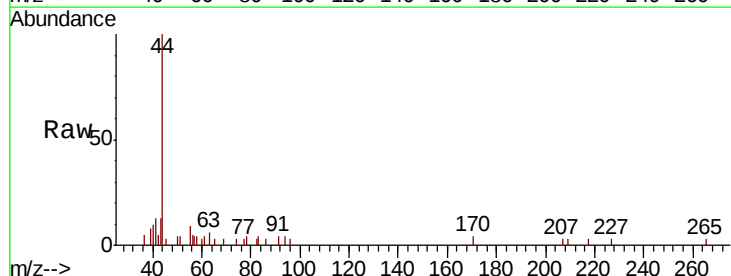
Tgt Ion: 63 Resp: 304

Ion Ratio Lower Upper

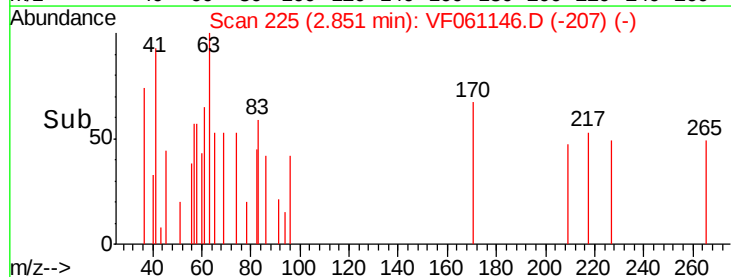
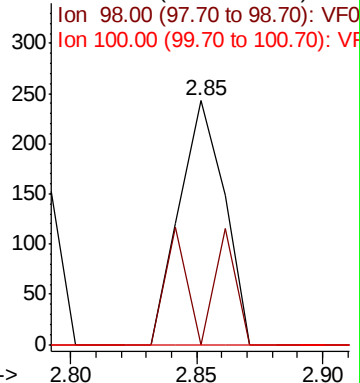
63 100

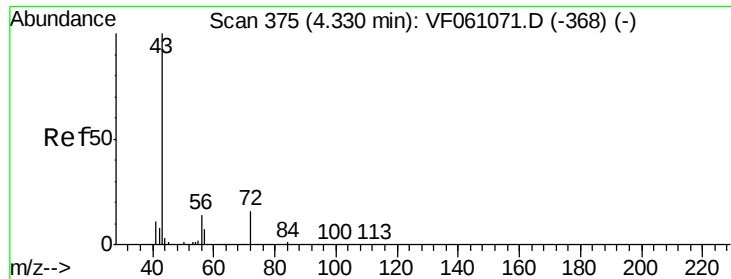
98 0.0 2.1 6.5#

100 0.0 1.7 5.1#



Abundance Ion 63.00 (62.70 to 63.70): VF0





#25

2-Butanone

Concen: 31.624 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.04 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

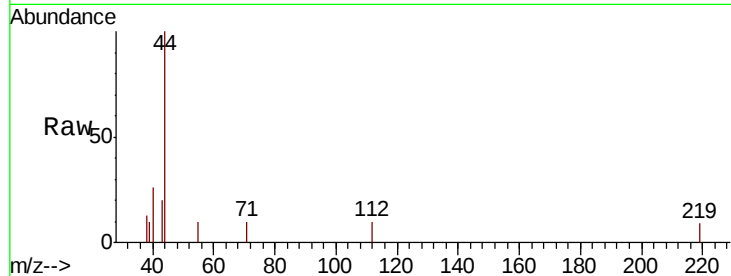
HD-01-122018RE

Tot Ion: 43 Resp: 283

Ion Ratio Lower Upper

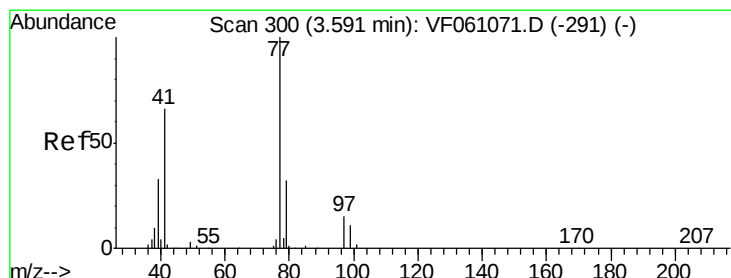
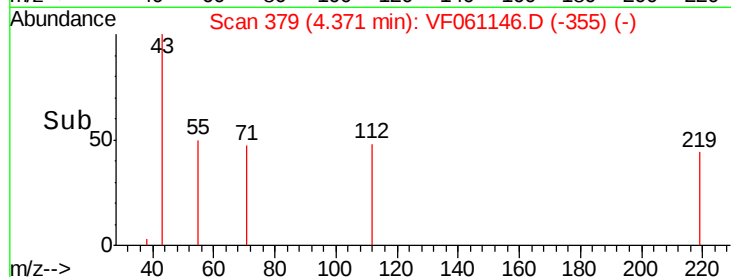
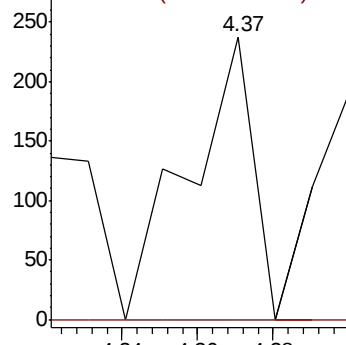
43 100

72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 3.633 ug/l

RT: 3.68 min Scan# 309

Delta R.T. 0.09 min

Lab File: VF061146.D

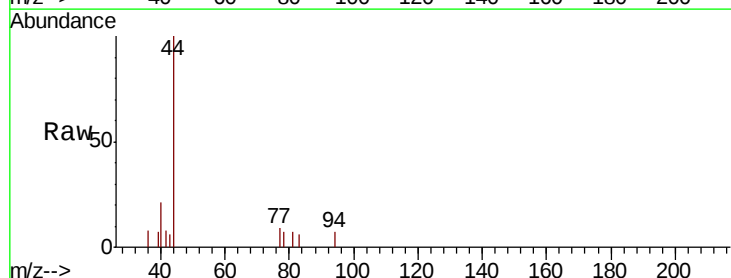
Acq: 22 Dec 2018 15:59

Tgt Ion: 77 Resp: 81

Ion Ratio Lower Upper

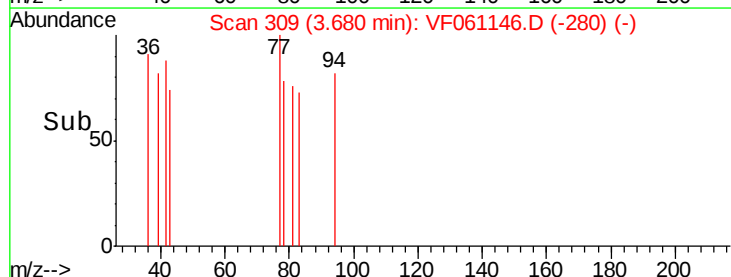
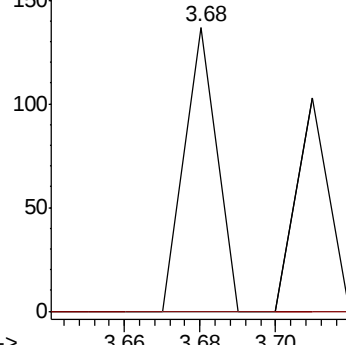
77 100

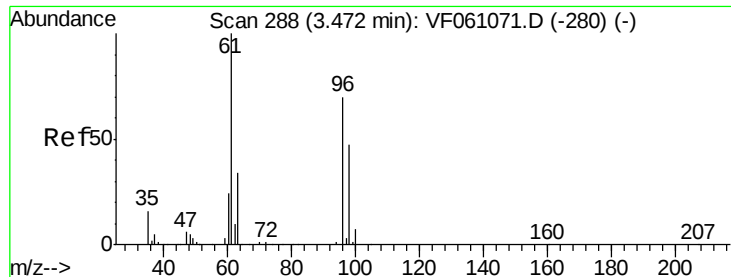
97 0.0 8.2 24.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



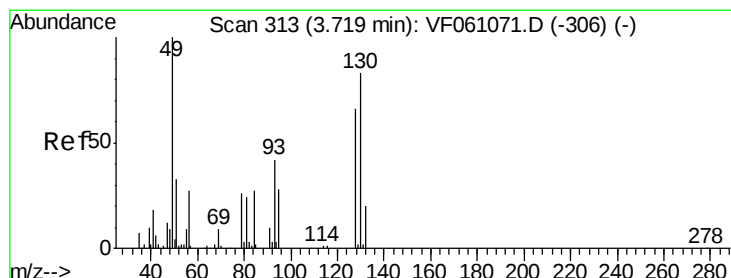
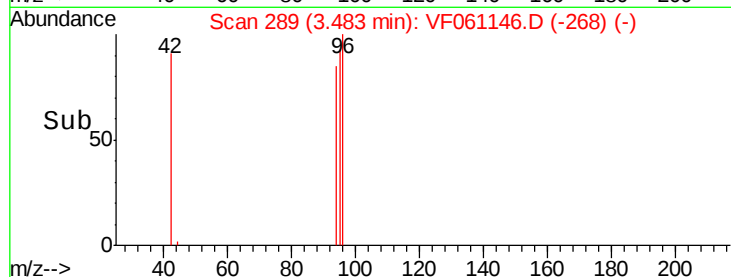
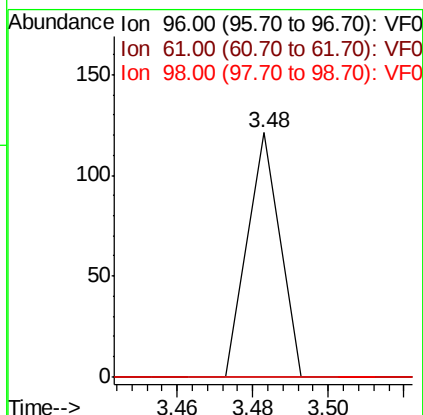
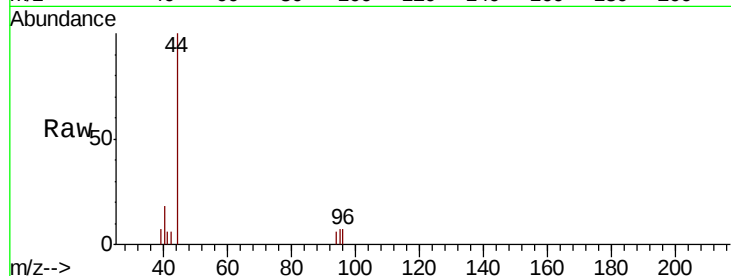


#27

cis-1,2-Dichloroethene
 Concen: 2.324 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

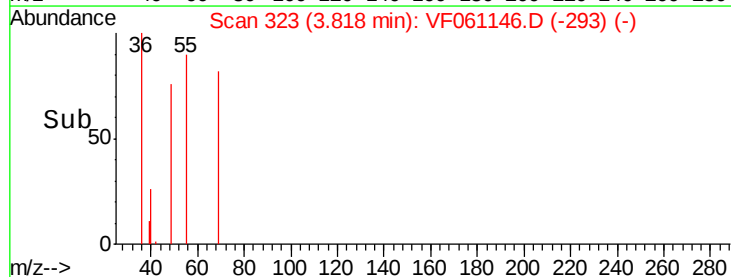
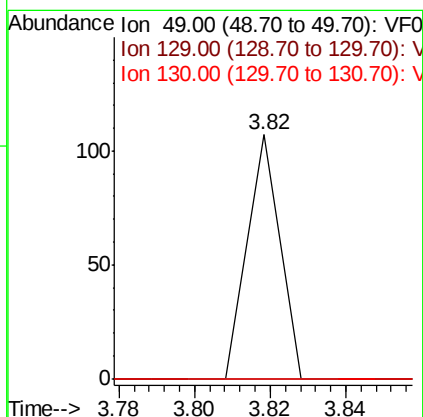
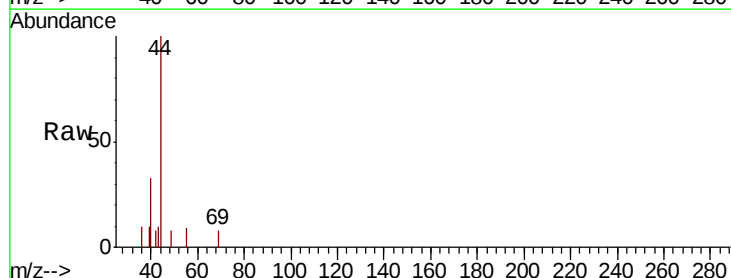
Tot Ion:	96	Resp:	72
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	287.8
98	0.0	0.0	134.2

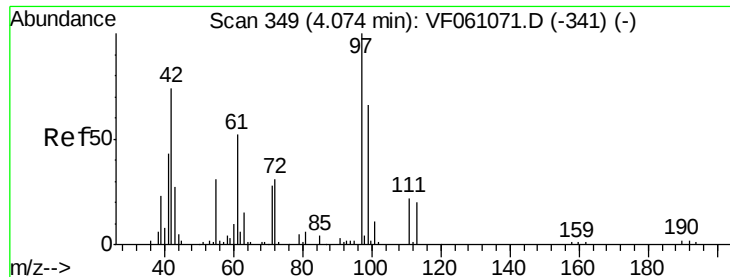


#28

Bromochloromethane
 Concen: 3.196 ug/l
 RT: 3.82 min Scan# 323
 Delta R.T. 0.10 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion:	49	Resp:	63
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	65.8	98.6#





#29

Tetrahydrofuran

Concen: 57.107 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

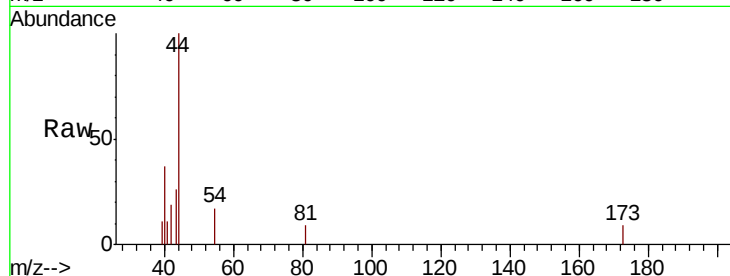
Tot Ion: 42 Resp: 208

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

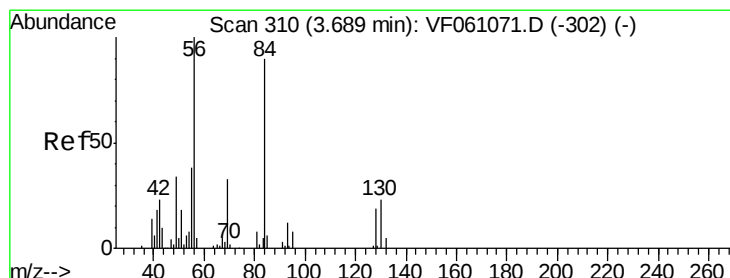
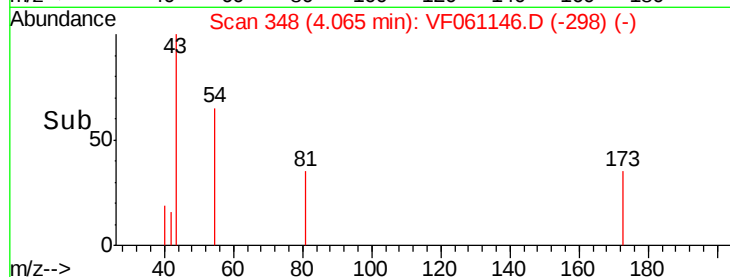
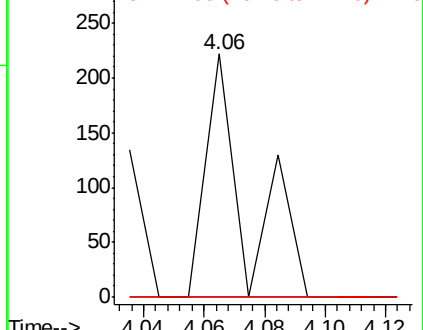
71 0.0 29.7 44.5#



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



#31

Cyclohexane

Concen: 1.538 ug/l

RT: 3.73 min Scan# 314

Delta R.T. 0.04 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

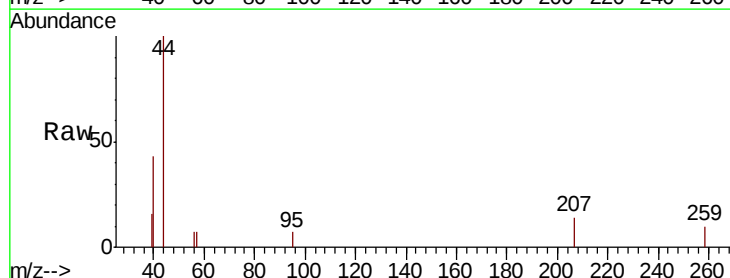
Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

69 0.0 26.0 39.0#

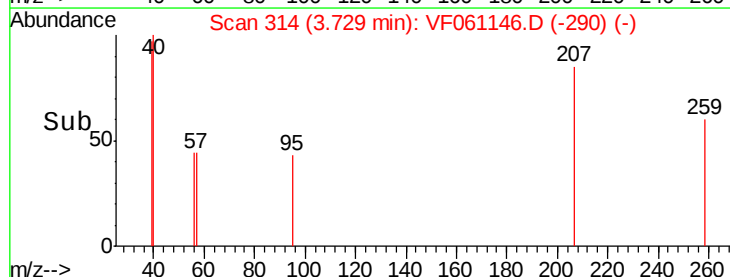
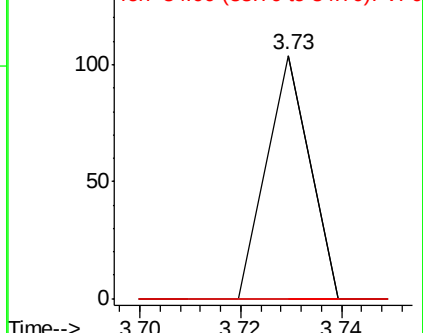
84 0.0 71.4 107.2#

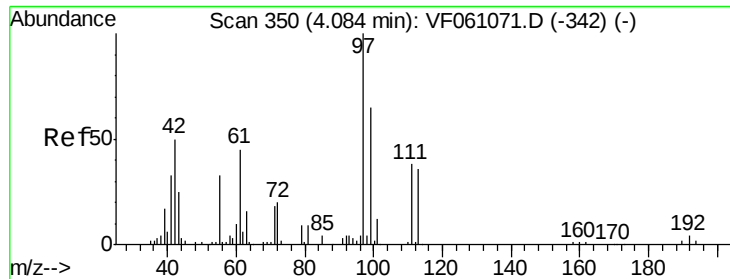


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 2.119 ug/l

RT: 4.22 min Scan# 364

Delta R.T. 0.14 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

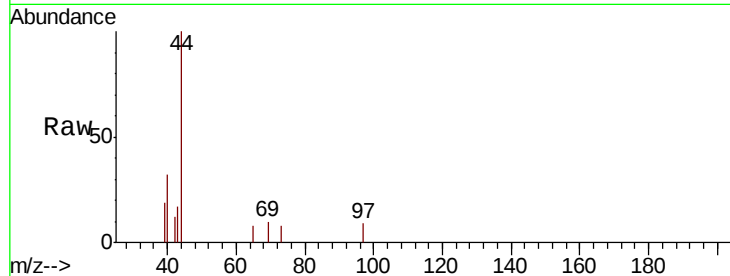
Tot Ion: 97 Resp: 74

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

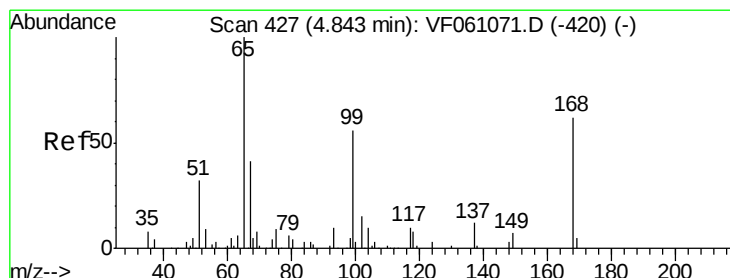
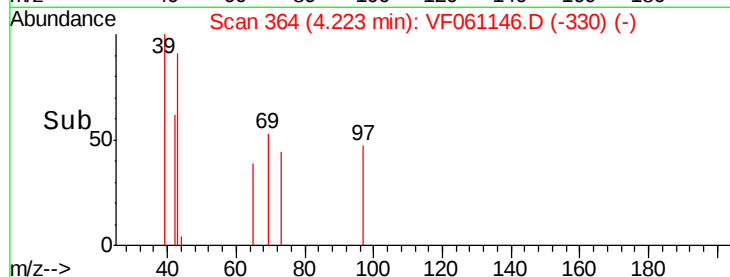
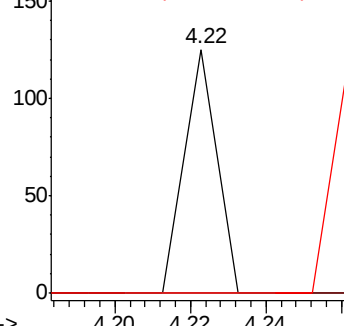
61 0.0 36.2 54.2#



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: 23.658 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.04 min

Lab File: VF061146.D

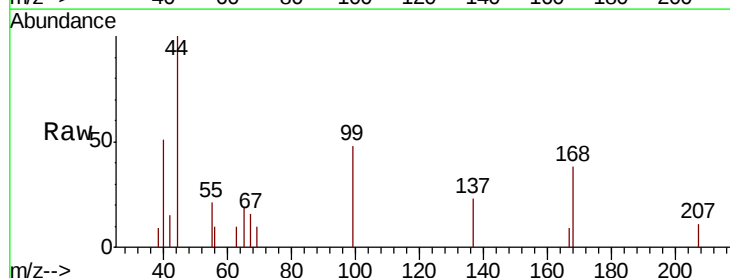
Acq: 22 Dec 2018 15:59

Tgt Ion: 65 Resp: 653

Ion Ratio Lower Upper

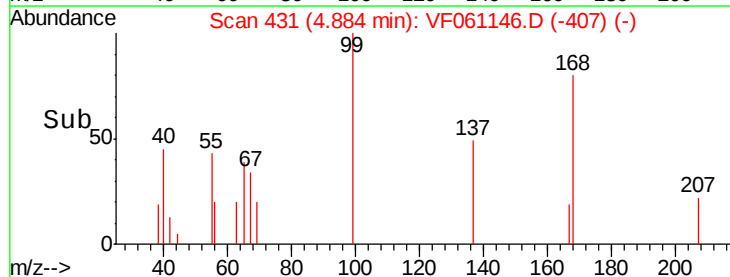
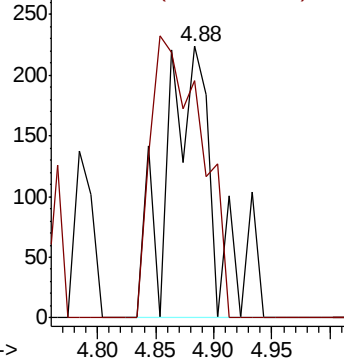
65 100

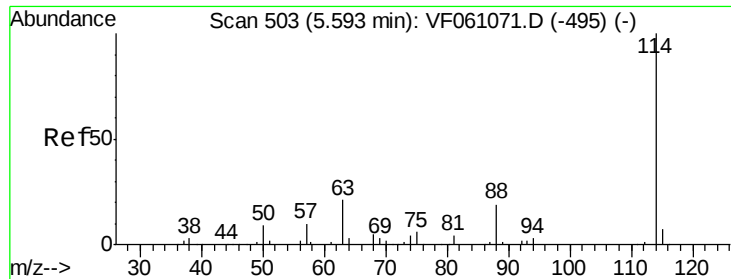
67 87.5 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

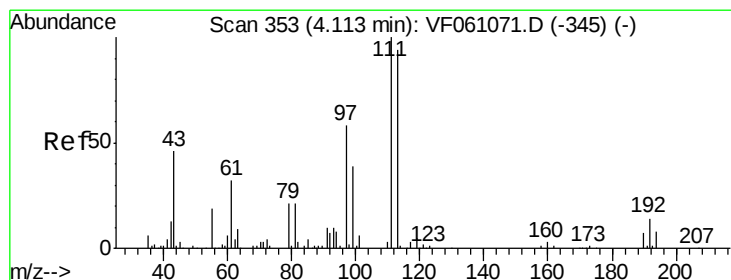
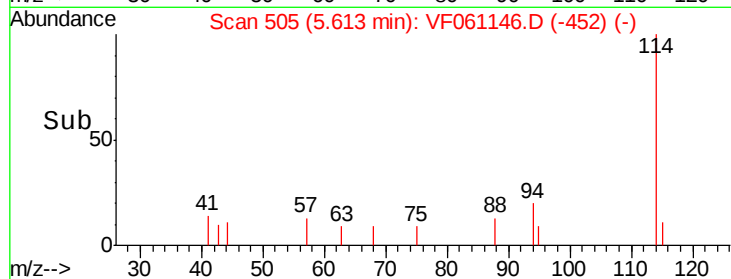
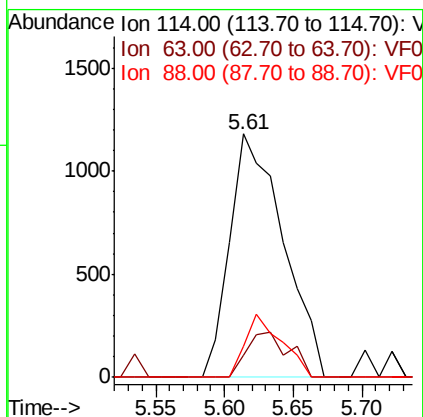
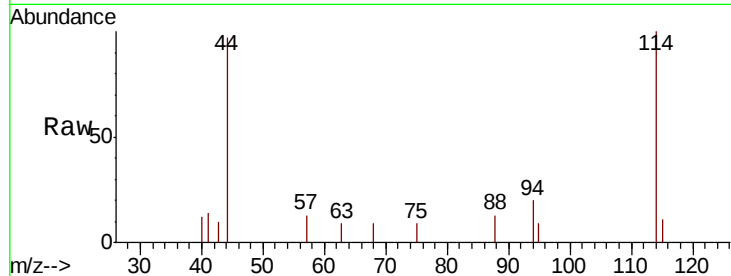




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

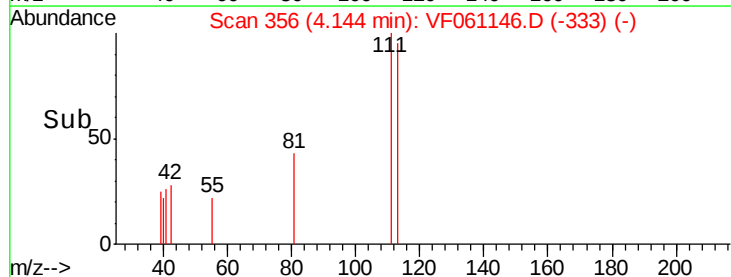
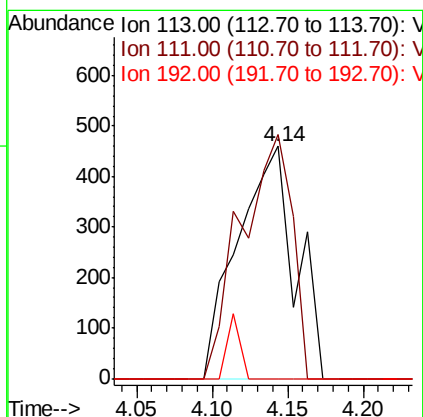
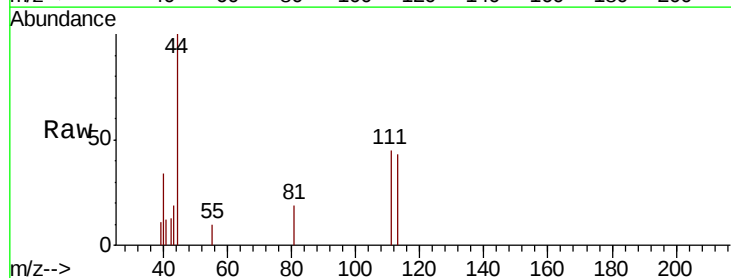
Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

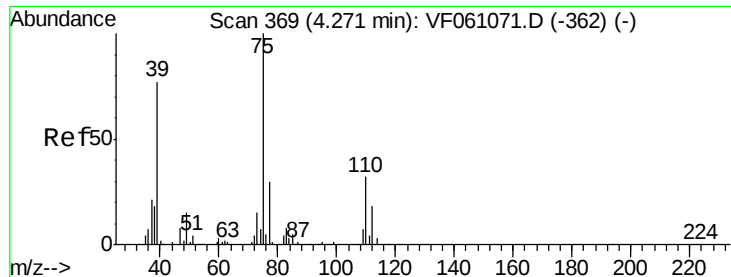
Tot Ion:114 Resp: 3193
 Ion Ratio Lower Upper
 114 100
 63 9.3 0.0 41.6
 88 12.9 0.0 38.0



#35
 Dibromofluoromethane
 Concen: 47.815 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion:113 Resp: 1223
 Ion Ratio Lower Upper
 113 100
 111 105.0 85.2 127.8
 192 0.0 12.8 19.2#





#36

1,1-Dichloropropene

Concen: 2.491 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

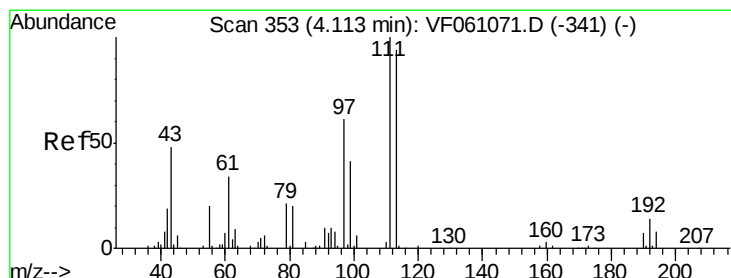
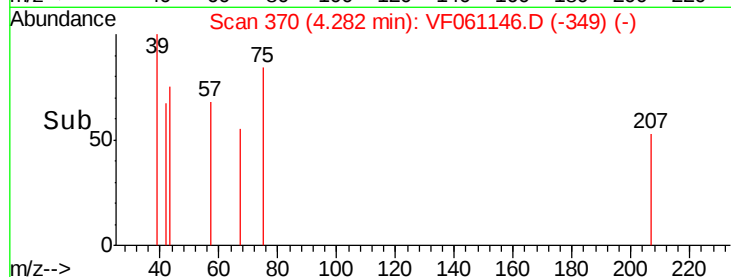
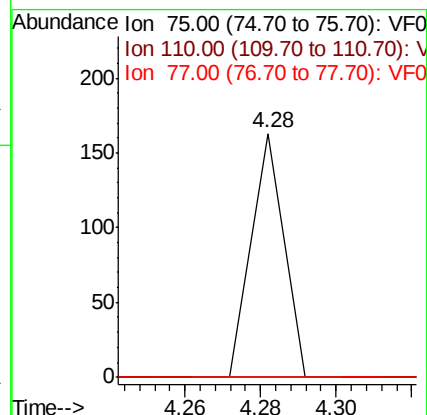
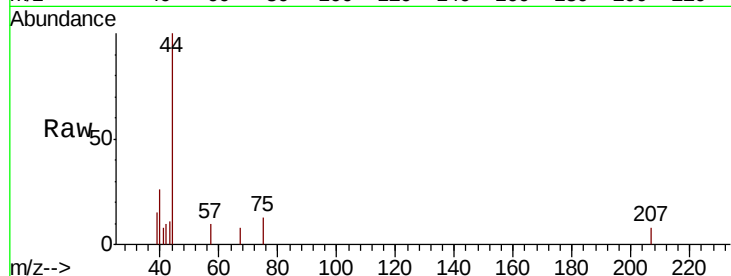
Tot Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 6.833 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

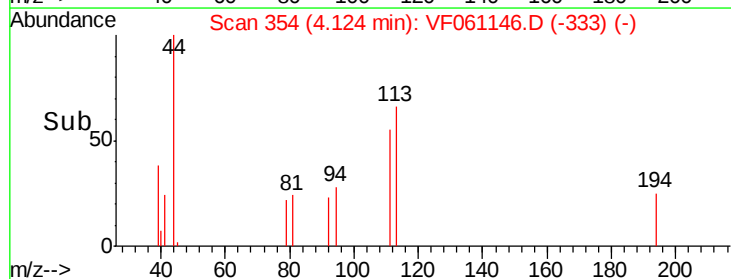
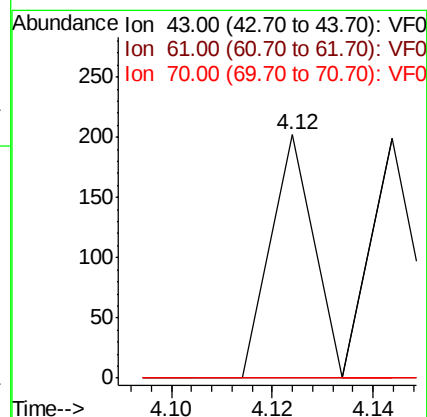
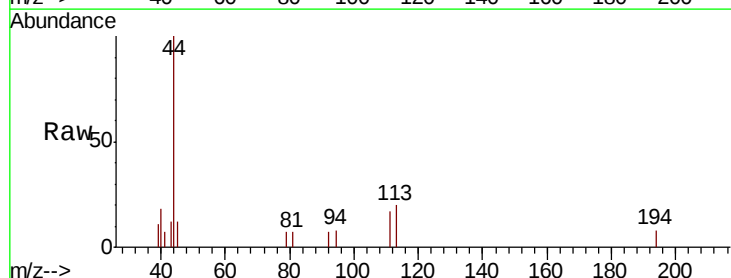
Tgt Ion: 43 Resp: 120

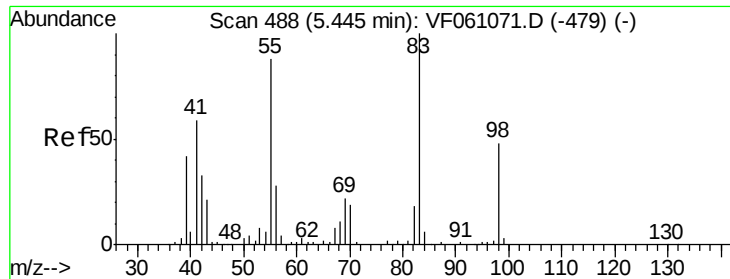
Ion Ratio Lower Upper

43 100

61 0.0 56.6 84.8#

70 0.0 6.3 9.5#

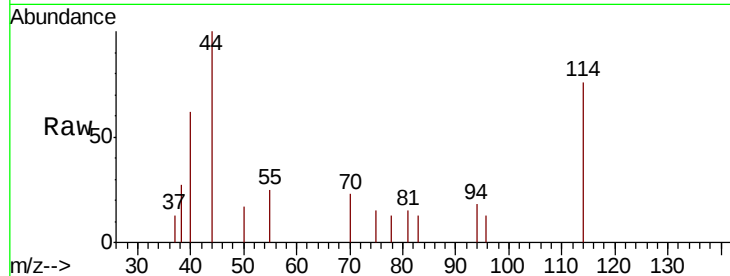




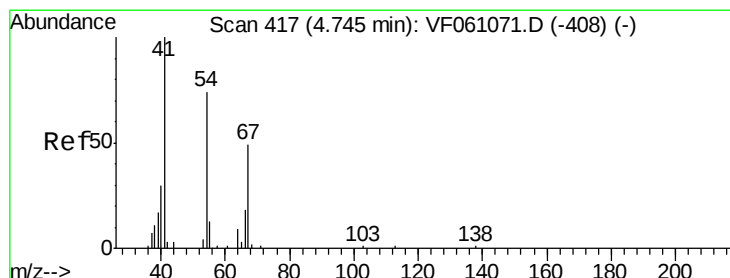
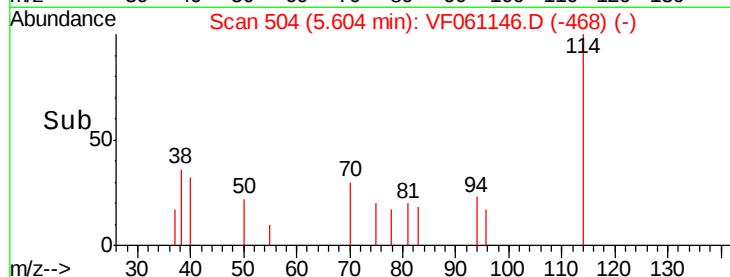
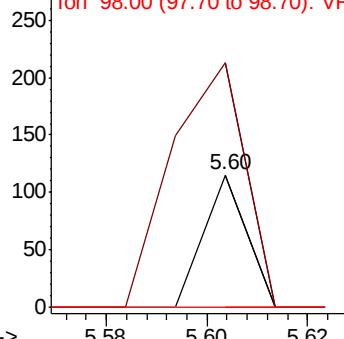
#39
Methylcyclohexane
Concen: 1.967 ug/l
RT: 5.60 min Scan# 504
Delta R.T. 0.16 min
Lab File: VF061146.D
Acq: 22 Dec 2018 15:59

Instrument :
MSVOA_F
ClientSampleId :
HD-01-122018RE

Tot Ion: 83 Resp: 68
Ion Ratio Lower Upper
83 100
55 185.2 70.6 105.8#
98 0.0 38.5 57.7#

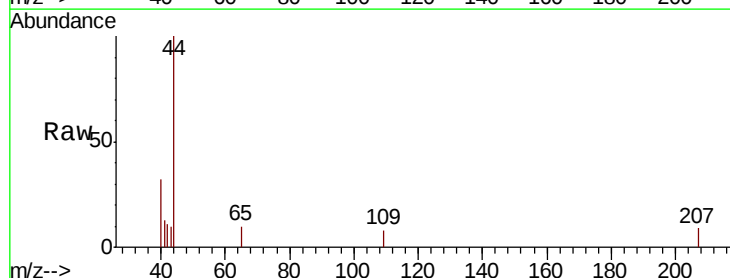


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

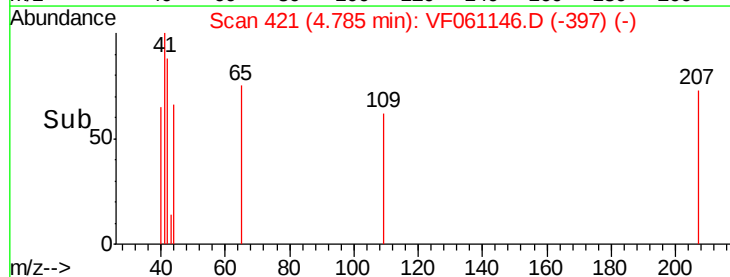
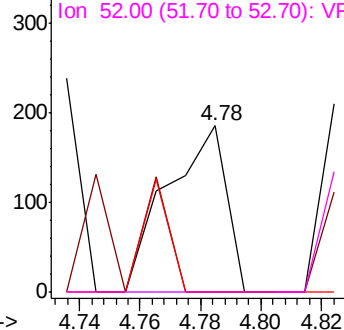


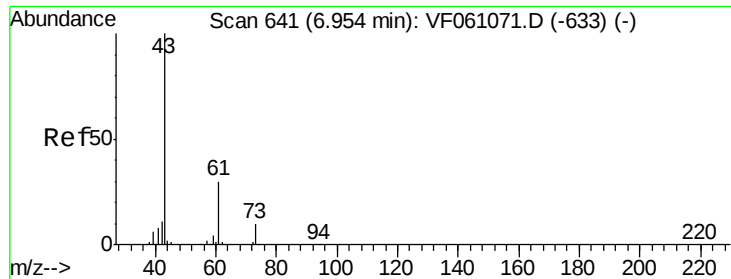
#41
Methacrylonitrile
Concen: 31.083 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.04 min
Lab File: VF061146.D
Acq: 22 Dec 2018 15:59

Tgt Ion: 41 Resp: 253
Ion Ratio Lower Upper
41 100
39 0.0 45.7 68.5#
67 0.0 38.9 58.3#
52 0.0 35.2 52.8#



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: 4.406 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

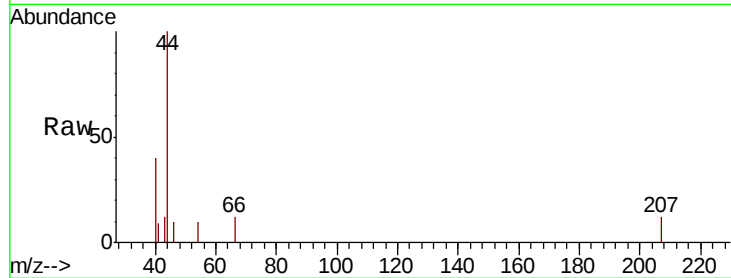
Tot Ion: 43 Resp: 82

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

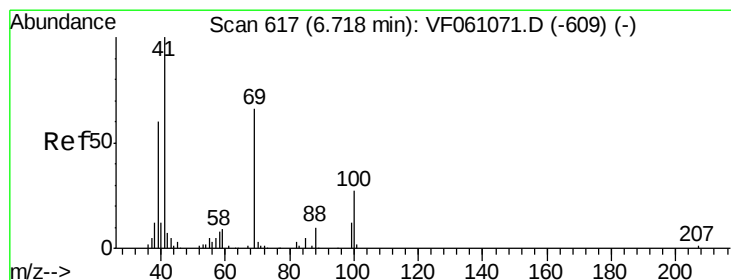
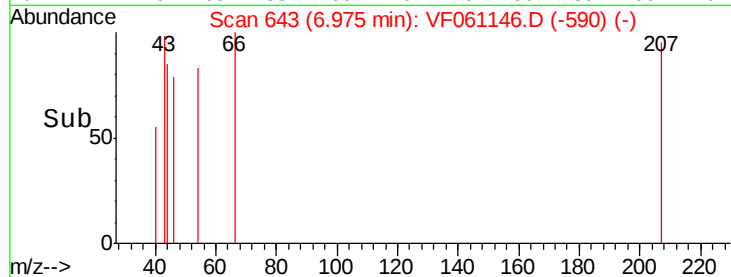
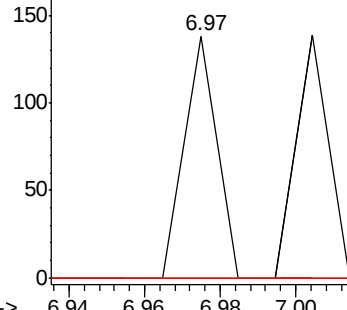
87 0.0 0.0 0.0



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



#48

Methyl methacrylate

Concen: 7.851 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.03 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

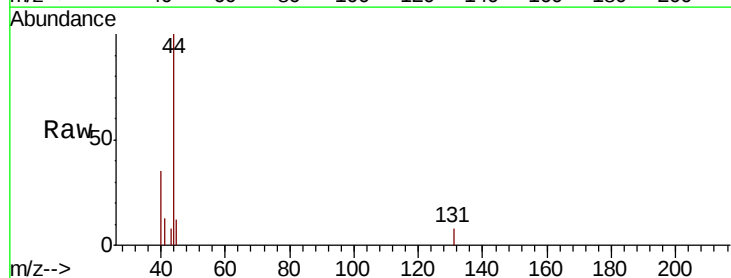
Tgt Ion: 41 Resp: 102

Ion Ratio Lower Upper

41 100

69 0.0 52.7 79.1#

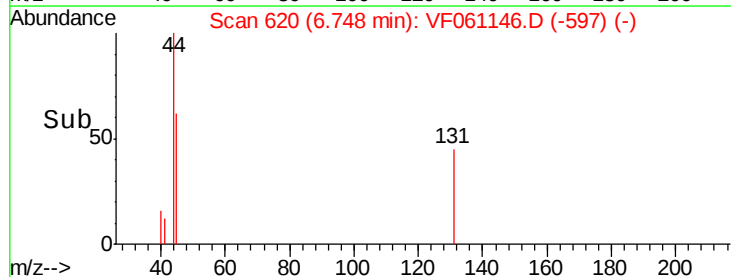
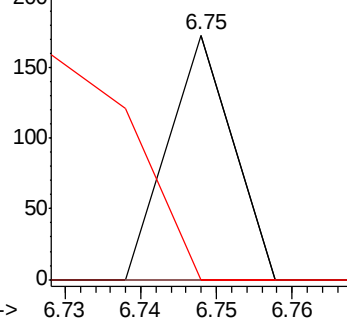
39 0.0 47.8 71.6#

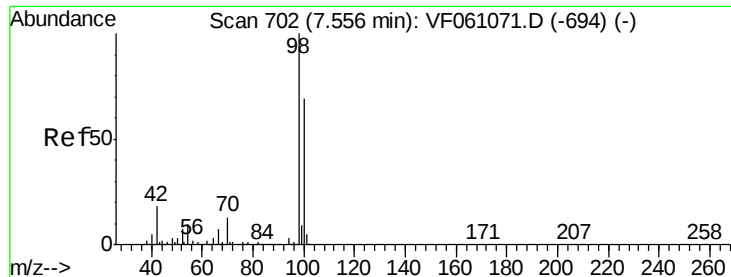


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 54.908 ug/l

RT: 7.59 min Scan# 705

Delta R.T. 0.03 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

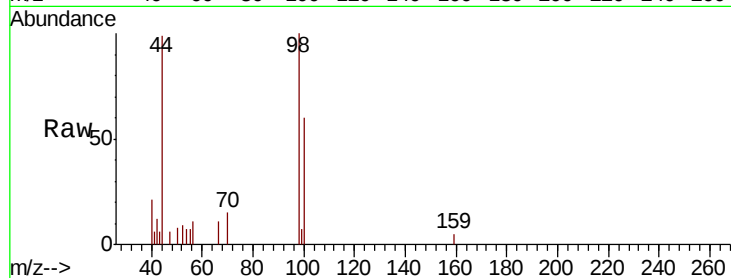
HD-01-122018RE

Tot Ion: 98 Resp: 3980

Ion Ratio Lower Upper

98 100

100 59.9 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

1500

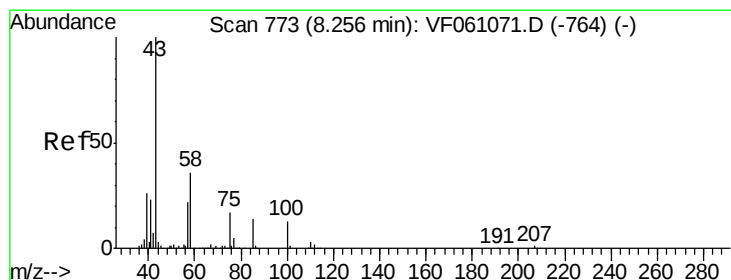
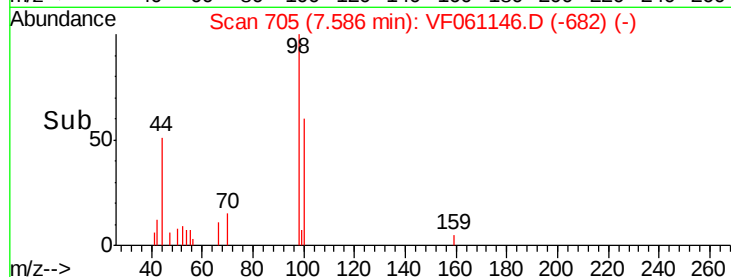
1000

500

0

7.50 7.55 7.60 7.65

Time-->



#51

4-Methyl-2-Pentanone

Concen: 27.815 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF061146.D

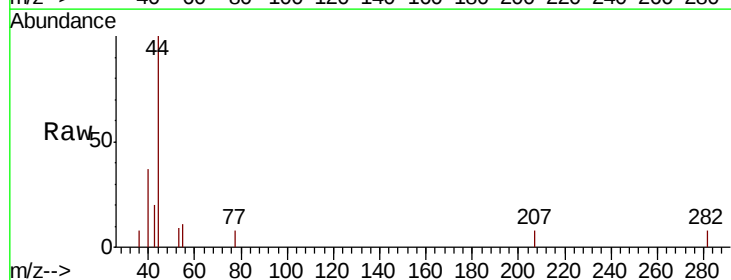
Acq: 22 Dec 2018 15:59

Tgt Ion: 43 Resp: 355

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

300

250

200

150

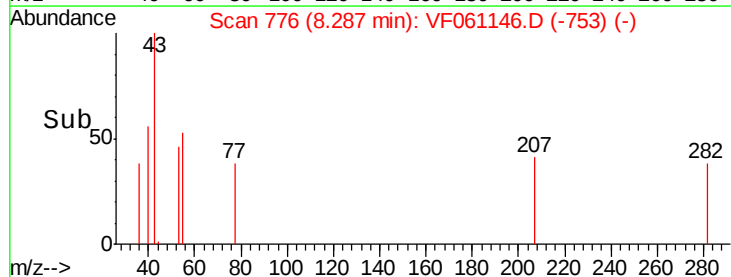
100

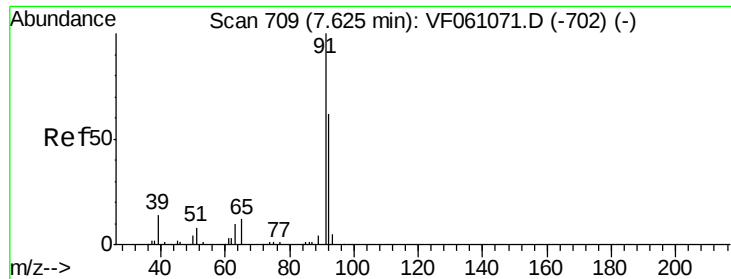
50

0

8.25 8.30

Time-->





#52

Toluene

Concen: 2.843 ug/l

RT: 7.67 min Scan# 713

Delta R.T. 0.04 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

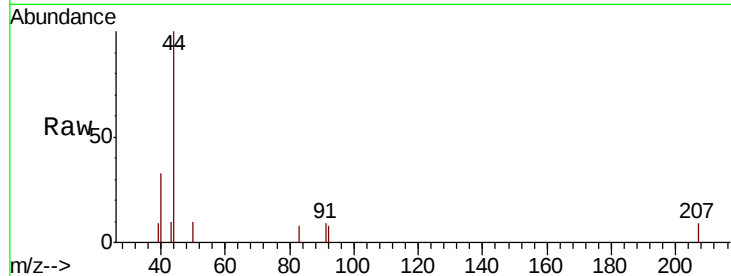
HD-01-122018RE

Tot Ion: 92 Resp: 156

Ion Ratio Lower Upper

92 100

91 104.5 128.8 193.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.67

150

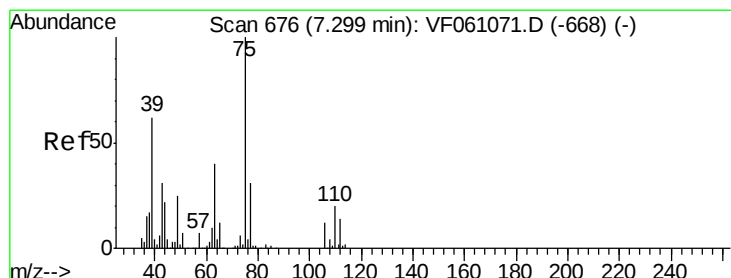
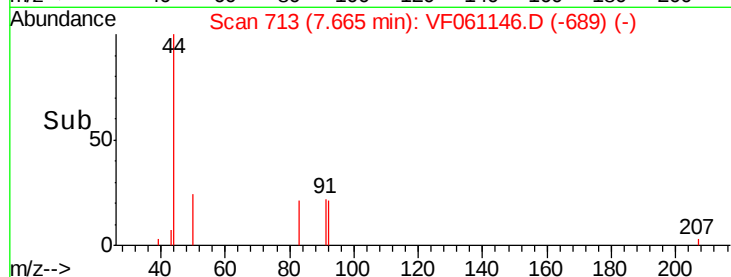
100

50

0

7.60 7.65 7.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 1.975 ug/l

RT: 7.40 min Scan# 686

Delta R.T. 0.10 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

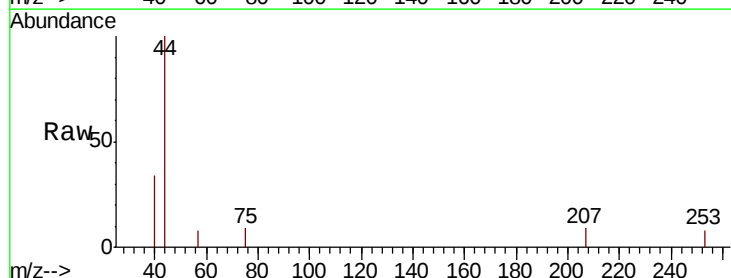
Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 0.0 50.1 75.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

200

150

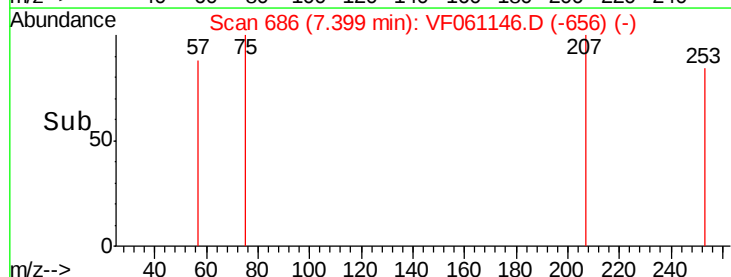
100

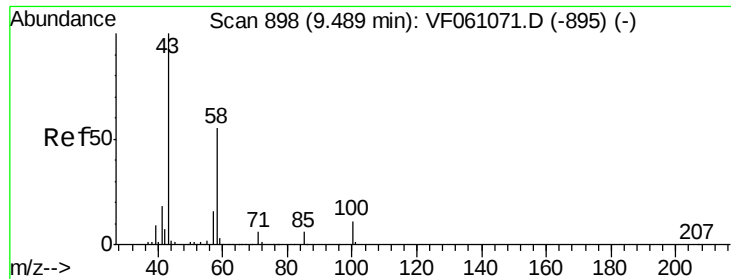
50

0

7.36 7.38 7.40 7.42

Time-->

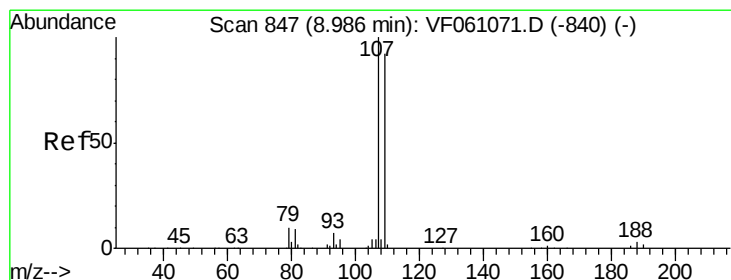
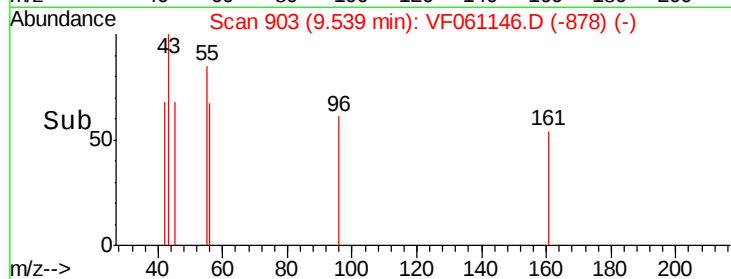
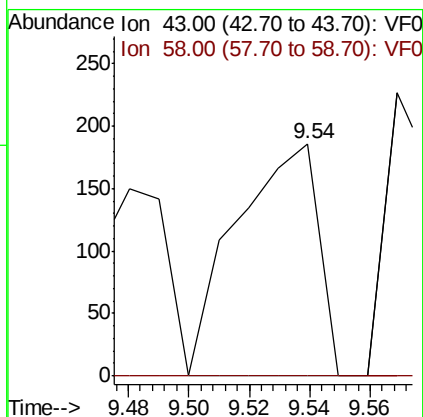
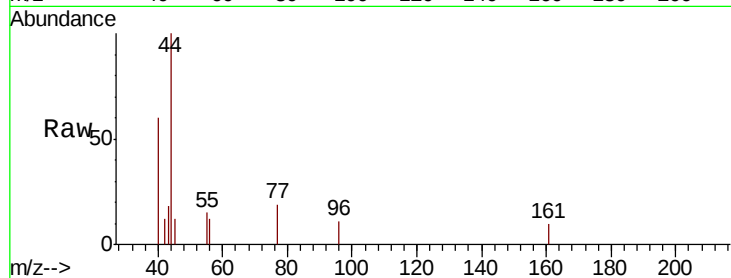




#59
2-Hexanone
Concen: 38.245 ug/l
RT: 9.54 min Scan# 903
Delta R.T. 0.05 min
Lab File: VF061146.D
Acq: 22 Dec 2018 15:59

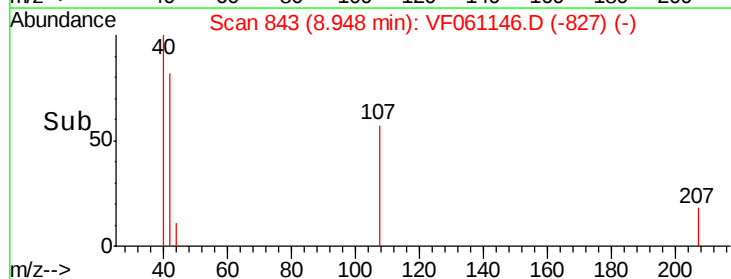
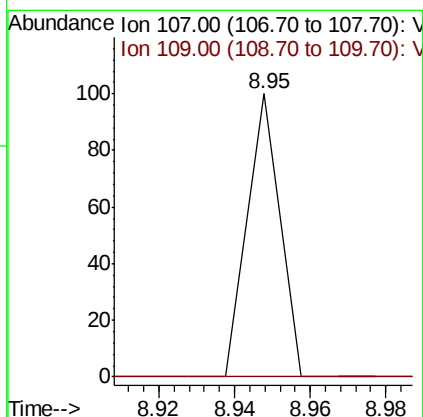
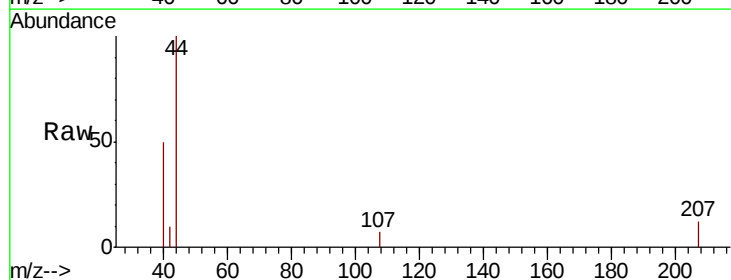
Instrument :
MSVOA_F
ClientSampleId :
HD-01-122018RE

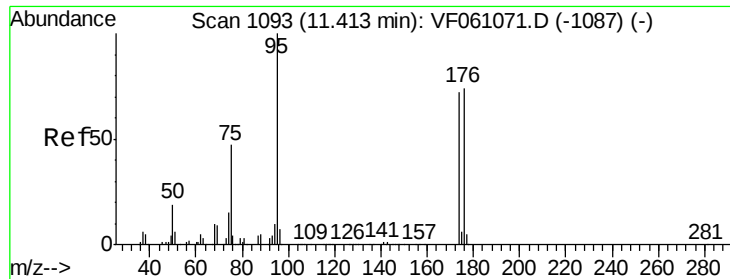
Tot Ion: 43 Resp: 353
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.2#



#61
1,2-Dibromoethane
Concen: 3.359 ug/l
RT: 8.95 min Scan# 843
Delta R.T. -0.04 min
Lab File: VF061146.D
Acq: 22 Dec 2018 15:59

Tgt Ion:107 Resp: 59
Ion Ratio Lower Upper
107 100
109 0.0 73.7 110.5#





#62

4-Bromofluorobenzene

Concen: 18.554 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

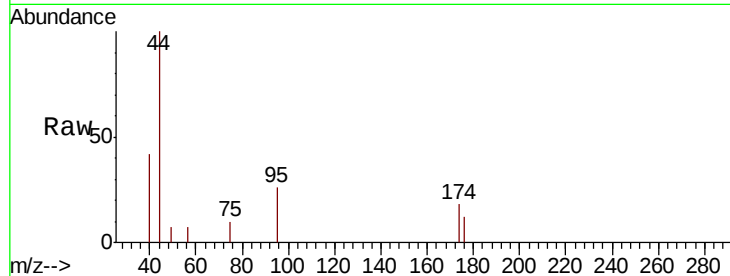
Tot Ion: 95 Resp: 620

Ion Ratio Lower Upper

95 100

174 68.4 0.0 143.8

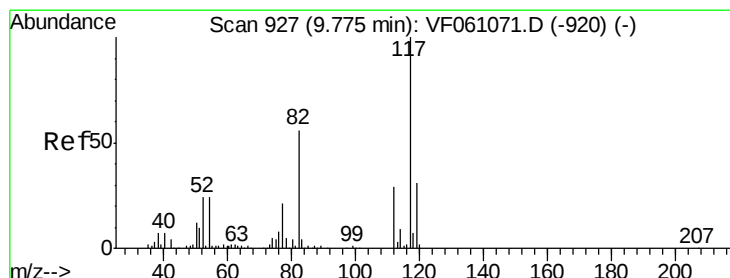
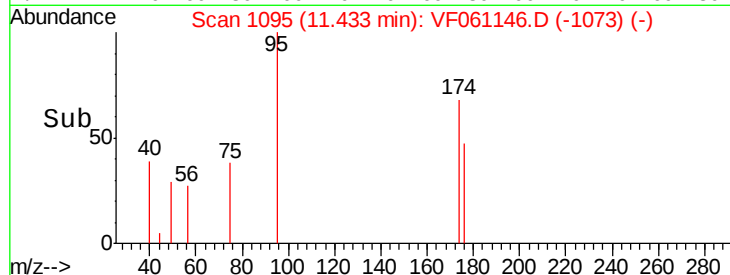
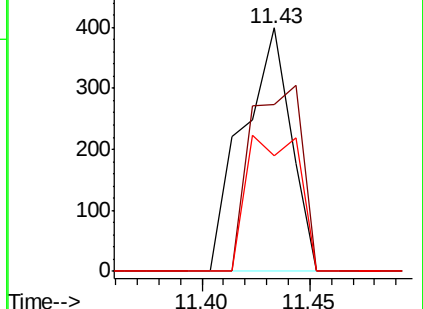
176 47.4 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 929

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

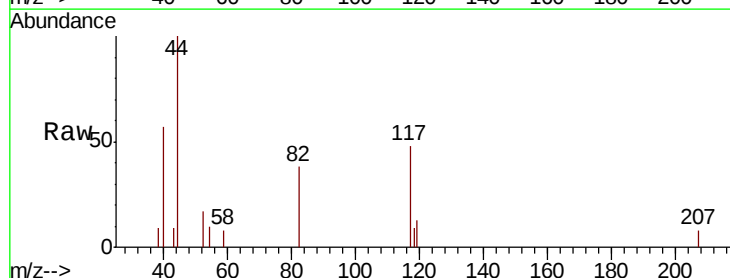
Tgt Ion: 117 Resp: 1350

Ion Ratio Lower Upper

117 100

82 78.5 45.0 67.4#

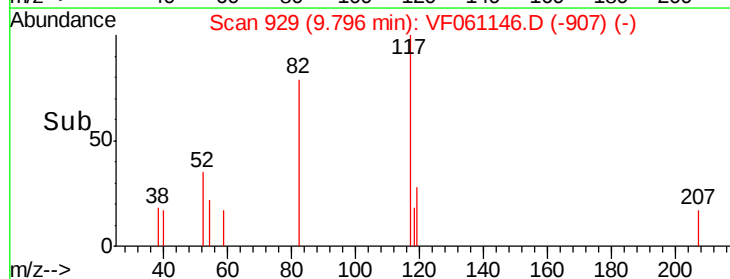
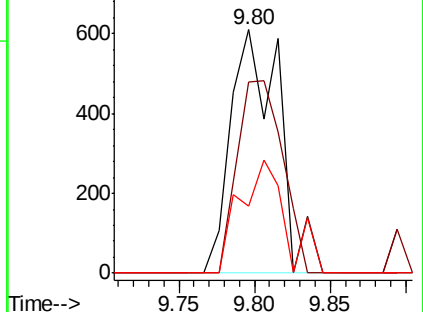
119 27.7 24.8 37.2

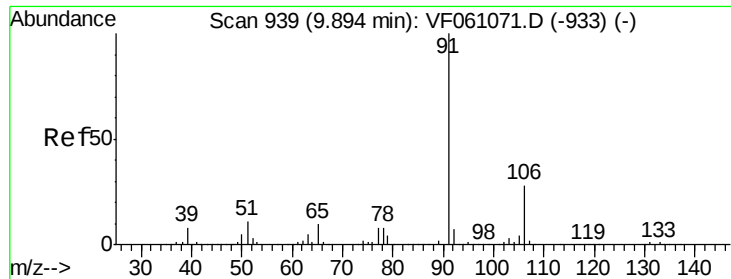


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

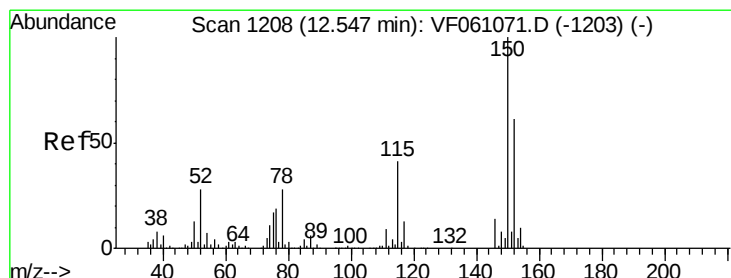
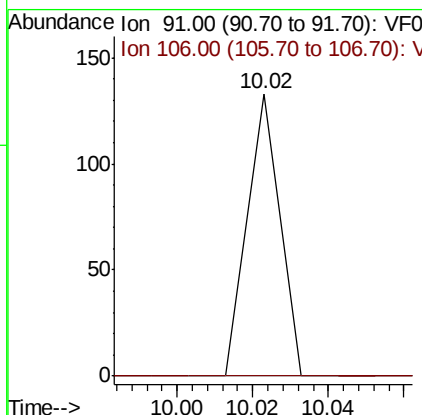
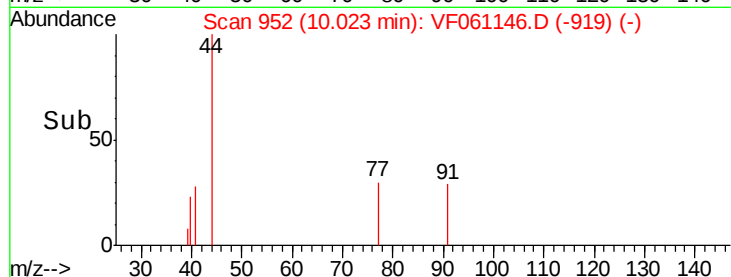
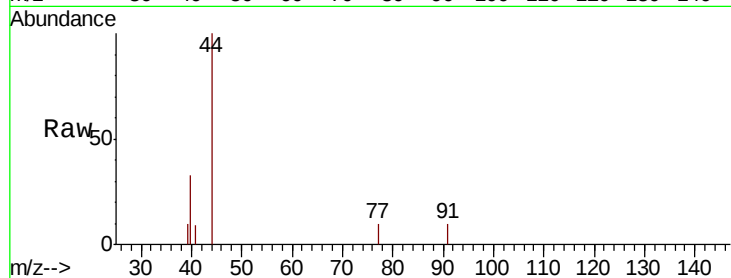




#67
 Ethyl Benzene
 Concen: 1.555 ug/l
 RT: 10.02 min Scan# 952
 Delta R.T. 0.13 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

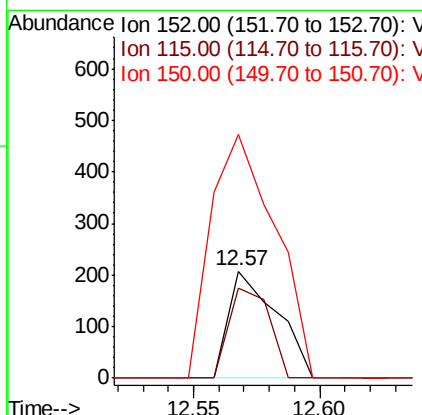
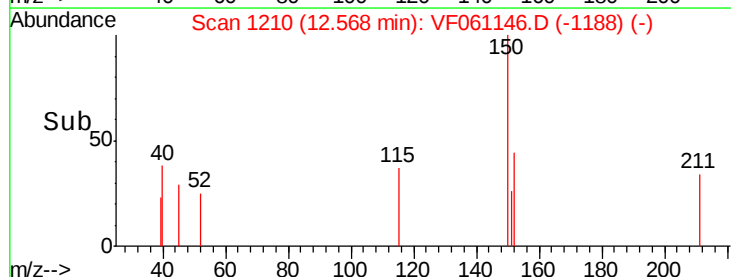
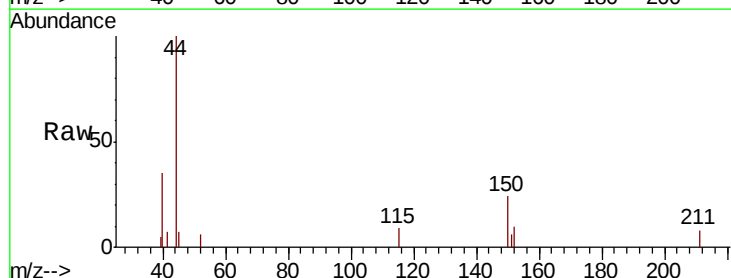
Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

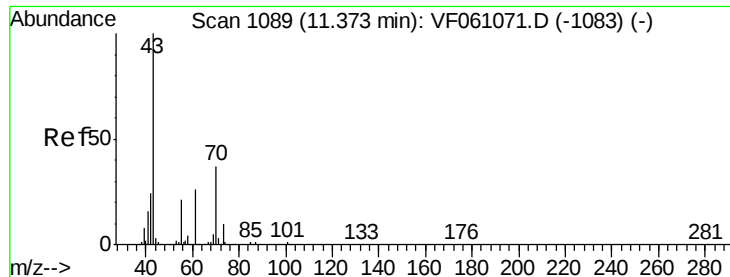
Tot Ion: 91 Resp: 79
 Ion Ratio Lower Upper
 91 100
 106 0.0 22.5 33.7#



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.02 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion: 152 Resp: 276
 Ion Ratio Lower Upper
 152 100
 115 84.1 33.3 99.9
 150 226.9 0.0 328.2





#74

N-amvl acetate

Concen: 26.323 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

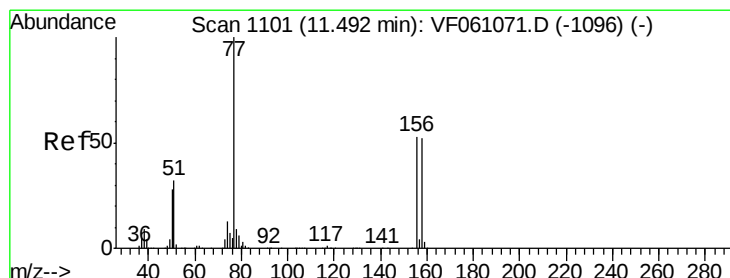
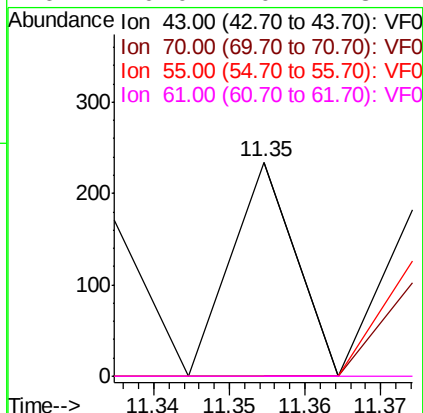
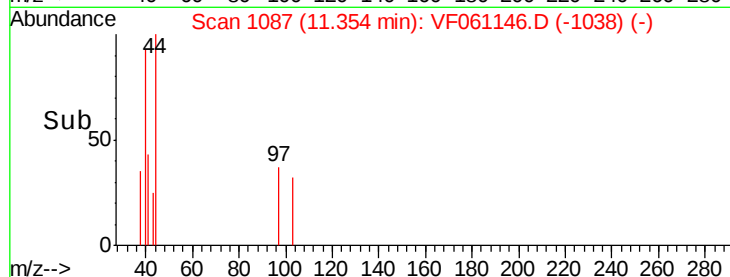
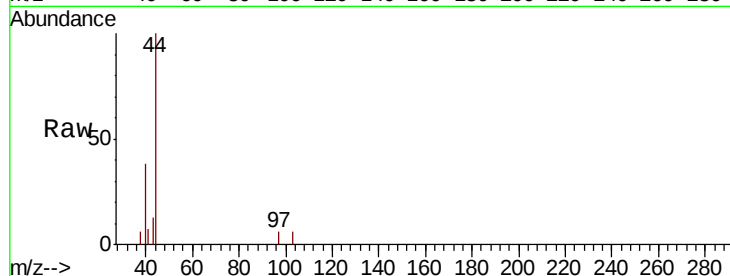
MSVOA_F

ClientSampleId :

HD-01-122018RE

Tot Ion: 43 Resp: 139

Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.2	43.8#
55	0.0	16.5	24.7#
61	0.0	20.7	31.1#



#77

Bromobenzene

Concen: 12.695 ug/l

RT: 11.51 min Scan# 1103

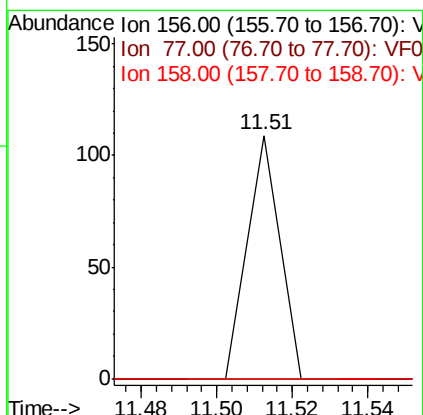
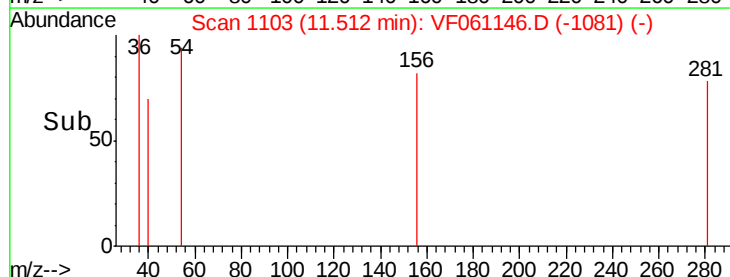
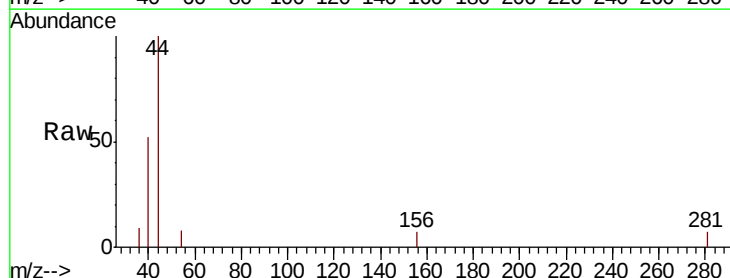
Delta R.T. 0.02 min

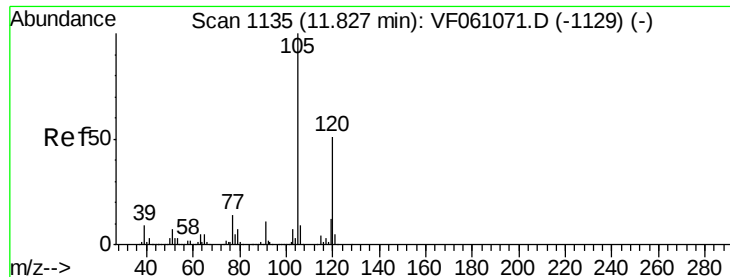
Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Tgt Ion: 156 Resp: 65

Ion	Ratio	Lower	Upper
156	100		
77	0.0	93.8	281.4#
158	0.0	48.9	146.8#

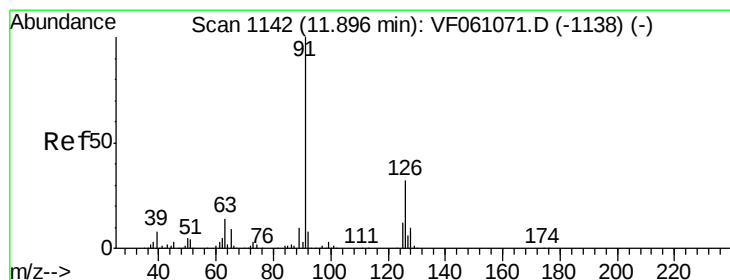
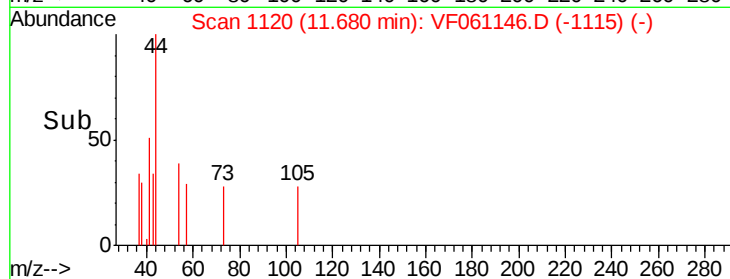
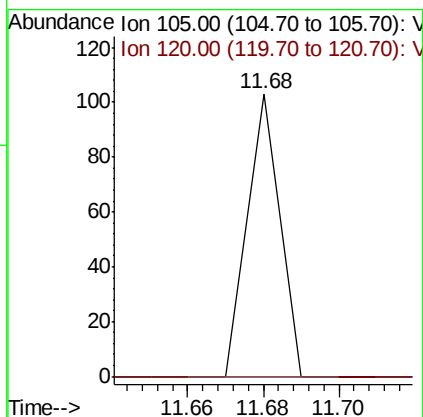
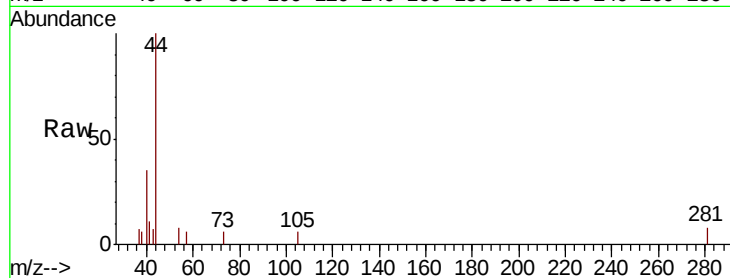




#80
 1,3,5-Trimethylbenzene
 Concen: 3.115 ug/l
 RT: 11.68 min Scan# 1120
 Delta R.T. -0.15 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

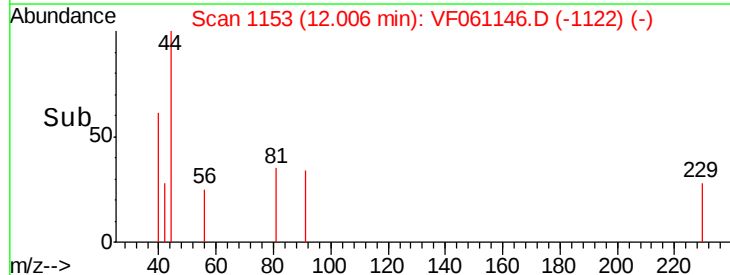
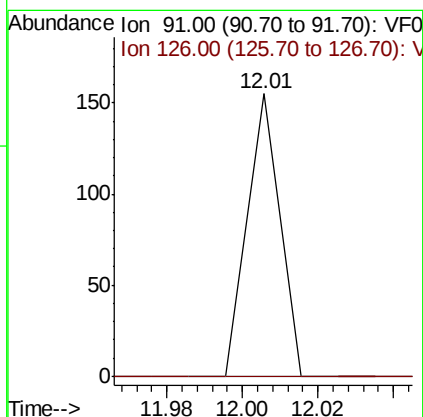
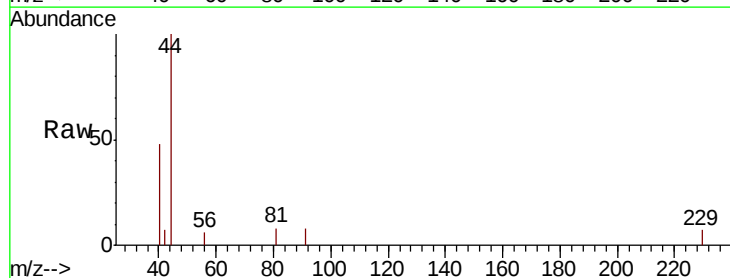
Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

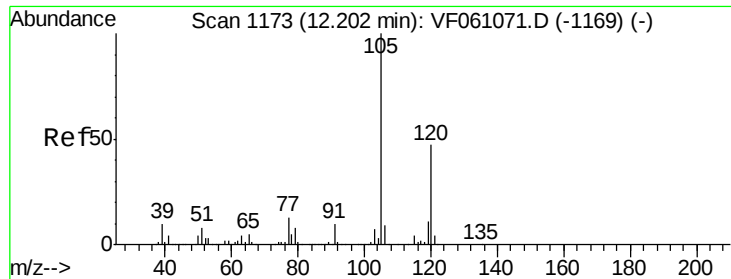
Tot Ion:105 Resp: 61
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.4 76.4#



#82
 4-Chlorotoluene
 Concen: 5.451 ug/l
 RT: 12.01 min Scan# 1153
 Delta R.T. 0.11 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion: 91 Resp: 92
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.0 47.9#

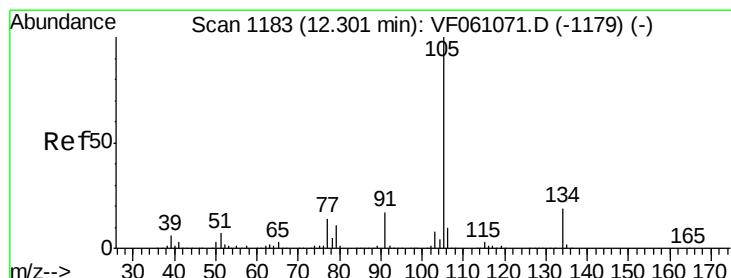
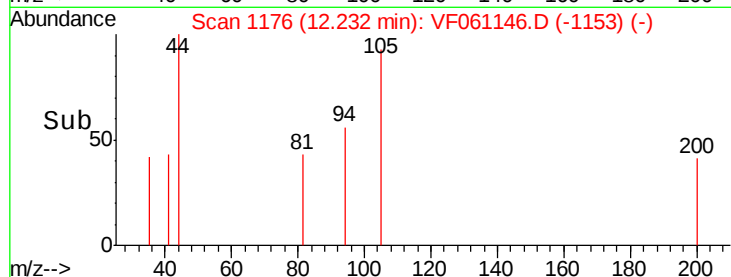
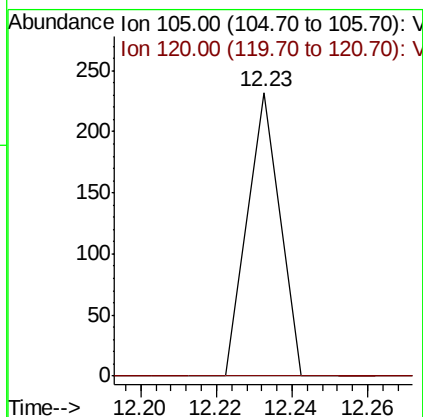
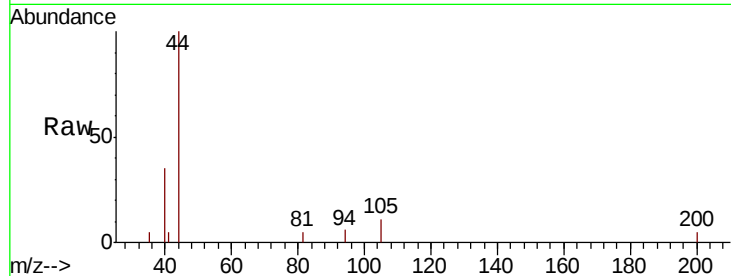




#84
 1,2,4-Trimethylbenzene
 Concen: 7.015 ug/l
 RT: 12.23 min Scan# 1176
 Delta R.T. 0.03 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

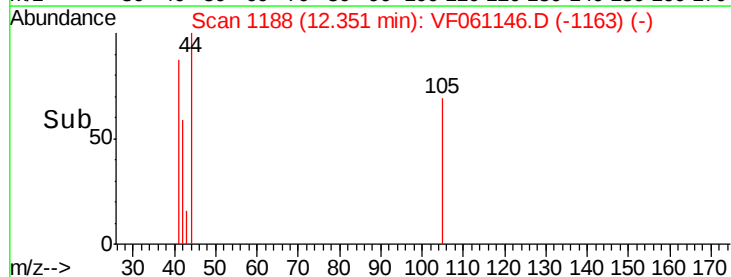
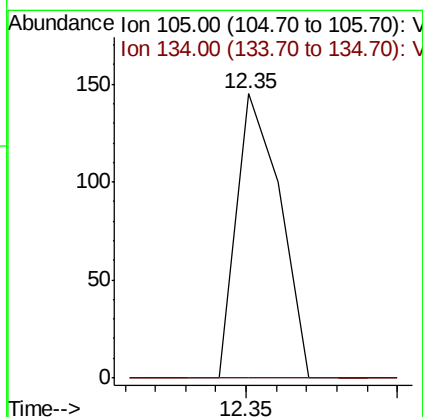
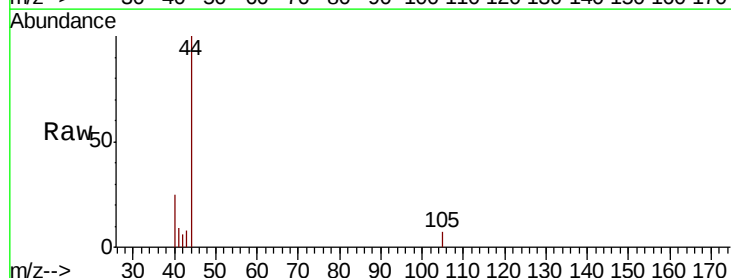
Instrument :
 MSVOA_F
 ClientSampleId :
 HD-01-122018RE

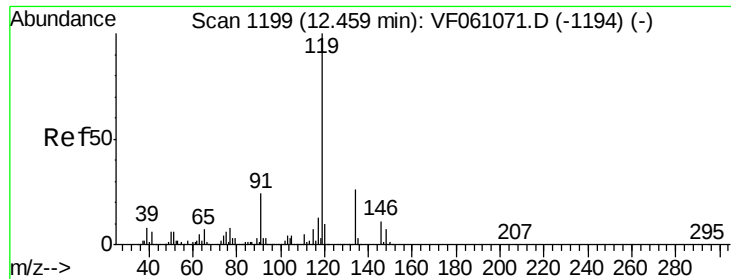
Tot Ion:105 Resp: 137
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.6 71.0#



#85
 sec-Butylbenzene
 Concen: 5.513 ug/l
 RT: 12.35 min Scan# 1188
 Delta R.T. 0.05 min
 Lab File: VF061146.D
 Acq: 22 Dec 2018 15:59

Tgt Ion:105 Resp: 145
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.2#





#86

p-Isopropyltoluene

Concen: 3.344 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

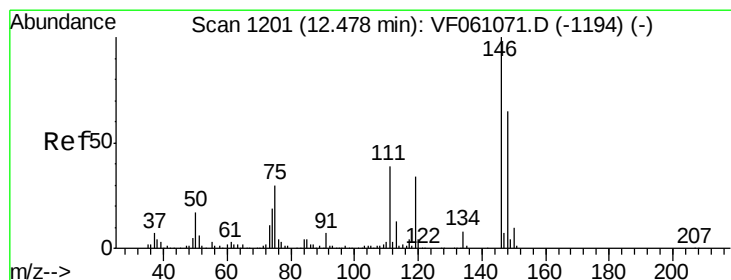
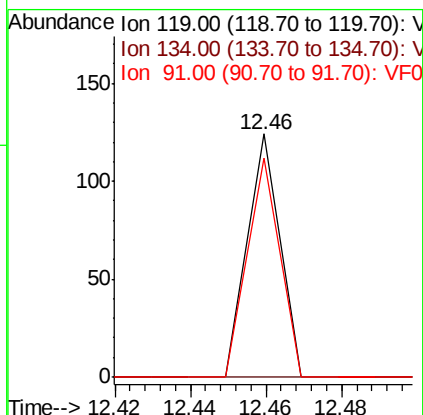
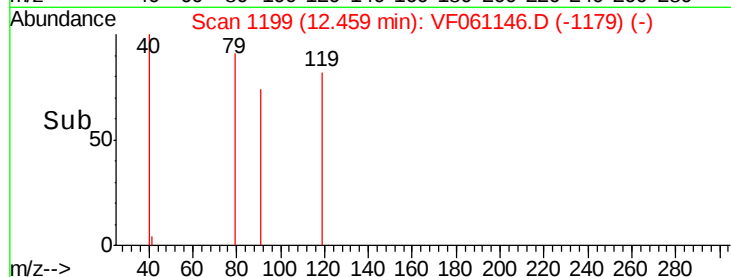
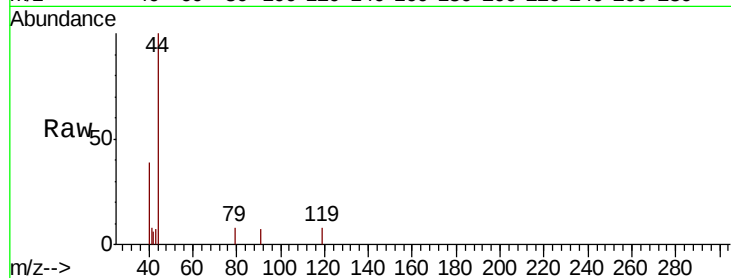
Tot Ion:119 Resp: 73

Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.4#

91 90.3 12.2 36.6#



#87

1,3-Dichlorobenzene

Concen: 6.042 ug/l

RT: 12.50 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

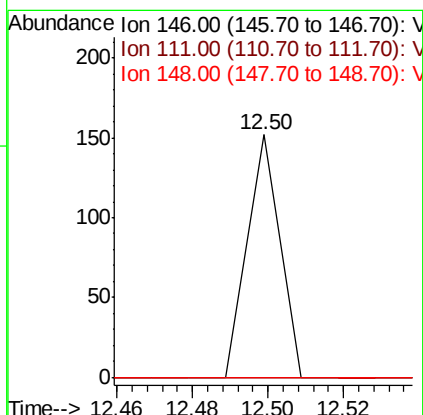
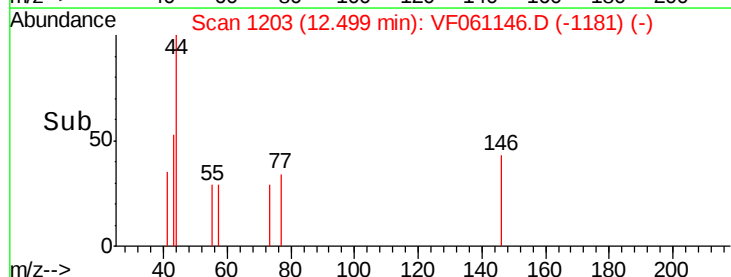
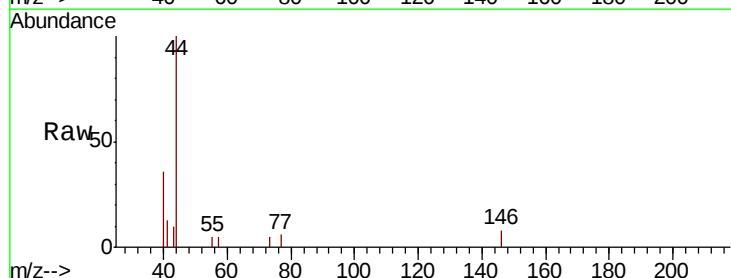
Tgt Ion:146 Resp: 90

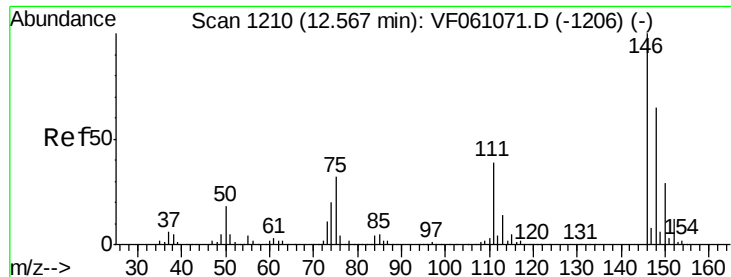
Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

148 0.0 32.4 97.2#





#88

1,4-Dichlorobenzene

Concen: 9.573 ug/l

RT: 12.50 min Scan# 1203

Delta R.T. -0.07 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

Instrument :

MSVOA_F

ClientSampleId :

HD-01-122018RE

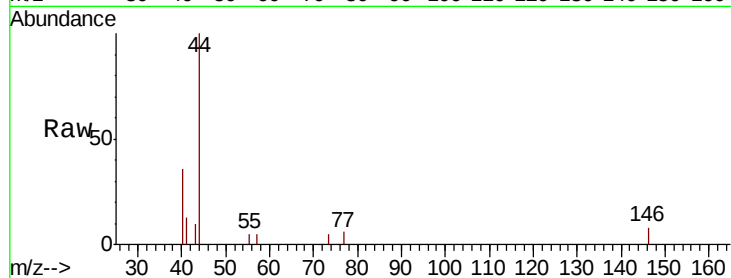
Tot Ion:146 Resp: 90

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.4#

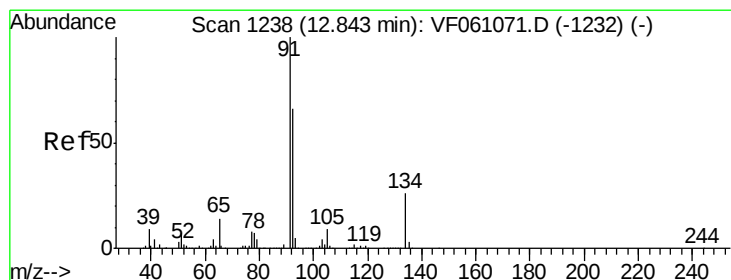
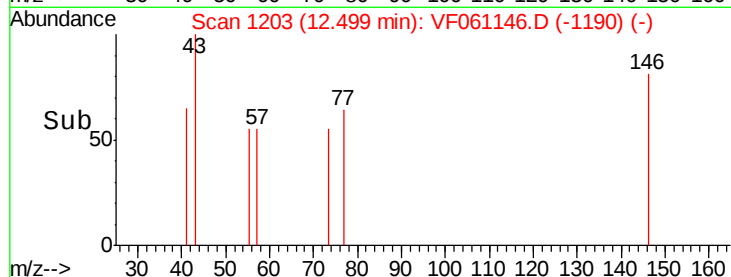
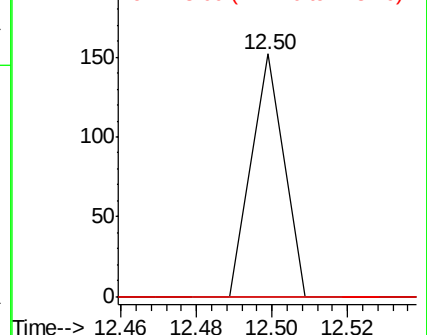
148 0.0 32.4 97.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

n-Butylbenzene

Concen: 3.474 ug/l

RT: 12.87 min Scan# 1241

Delta R.T. 0.03 min

Lab File: VF061146.D

Acq: 22 Dec 2018 15:59

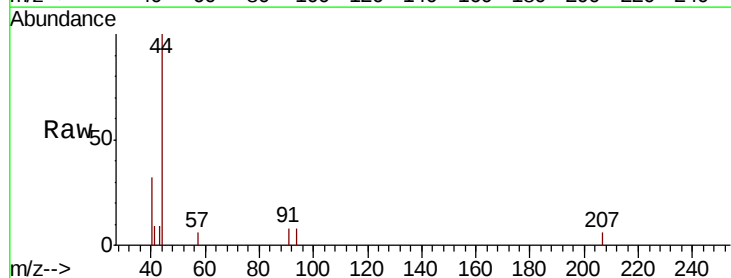
Tgt Ion: 91 Resp: 86

Ion Ratio Lower Upper

91 100

92 0.0 32.8 98.4#

134 0.0 13.2 39.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

