

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082818\
 Data File : VF060147.D
 Acq On : 28 Aug 2018 14:00
 Operator : VA/AP
 Sample : VF0828SBSD01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBSD01

Quant Time: Aug 28 14:55:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	153305	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.77	114	206773	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	229783	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	147125	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	93055	44.35	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	88.70%	
35) Dibromofluoromethane	4.29	113	90978	56.03	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	112.06%	
50) Toluene-d8	7.71	98	229584	49.79	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.50	95	128213	52.56	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	105.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	49825	24.686	ug/l	96
3) Chloromethane	1.08	50	30383	21.050	ug/l	96
4) Vinyl Chloride	1.12	62	23487	18.743	ug/l	92
5) Bromomethane	1.31	94	20525	21.554	ug/l	98
6) Chloroethane	1.39	64	12748	25.807	ug/l	96
7) Trichlorofluoromethane	1.48	101	74673	29.633	ug/l	94
8) Diethyl Ether	1.71	74	6006	13.331	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.86	101	27341	20.670	ug/l #	86
10) Methyl Iodide	1.93	142	25300	14.467	ug/l #	86
11) Tert butyl alcohol	2.67	59	8976	80.415	ug/l #	79
12) 1,1-Dichloroethene	1.82	96	19474	19.983	ug/l #	70
13) Acrolein	2.18	56	457	32.319	ug/l	85
14) Allyl chloride	2.19	41	34512	19.940	ug/l	89
15) Acrylonitrile	3.07	53	17413	79.052	ug/l	94
16) Acetone	2.34	43	46772	84.818	ug/l #	88
17) Carbon Disulfide	1.84	76	63690	20.874	ug/l	98
18) Methyl Acetate	2.45	43	16628	14.755	ug/l	95
19) Methyl tert-butyl Ether	2.53	73	59065	18.917	ug/l	99
20) Methylene Chloride	2.28	84	26953	21.942	ug/l	97
21) trans-1,2-Dichloroethene	2.42	96	23883	21.903	ug/l	97
22) Diisopropyl ether	2.92	45	74398	19.196	ug/l	93
23) Vinyl Acetate	3.32	43	152657	74.352	ug/l	98
24) 1,1-Dichloroethane	3.00	63	61540	25.704	ug/l	97
25) 2-Butanone	4.49	43	53081	74.106	ug/l #	92
26) 2,2-Dichloropropane	3.76	77	60566	24.451	ug/l	93
27) cis-1,2-Dichloroethene	3.63	96	30479	19.725	ug/l	91
28) Bromochloromethane	3.88	49	19635	19.425	ug/l	88
29) Tetrahydrofuran	4.24	42	18160	67.151	ug/l	97
30) Chloroform	4.03	83	71765	21.354	ug/l	90
31) Cyclohexane	3.85	56	35700	19.569	ug/l	91
32) 1,1,1-Trichloroethane	4.27	97	73910	25.682	ug/l	97
36) 1,1-Dichloropropene	4.46	75	44800	23.055	ug/l	98
37) Ethyl Acetate	4.28	43	17300	14.887	ug/l #	44
38) Carbon Tetrachloride	4.16	117	61176	27.188	ug/l	95

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 Misc : 5.00g/5mL/MSVOA F/SOIL
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Instrument :
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Quant Time: Aug 28 14:55:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	38904	21.353	ug/l	89
40) Benzene	4.80	78	89702	21.133	ug/l	99
41) Methacrylonitrile	4.91	41	9799	16.671	ug/l #	92
42) 1,2-Dichloroethane	5.12	62	50764	22.304	ug/l	95
43) Isopropyl Acetate	7.11	43	22085	15.099	ug/l #	97
44) Trichloroethene	5.67	130	31163	22.208	ug/l	94
45) 1,2-Dichloropropane	6.40	63	24504	20.409	ug/l	99
46) Dibromomethane	6.25	93	17997	19.155	ug/l	98
47) Bromodichloromethane	6.55	83	52054	22.938	ug/l #	95
48) Methyl methacrylate	6.86	41	13971	14.435	ug/l	94
49) 1,4-Dioxane	6.86	88	2451	263.797	ug/l	92
51) 4-Methyl-2-Pentanone	8.40	43	109212	86.466	ug/l	98
52) Toluene	7.78	92	73302	24.325	ug/l	95
53) t-1,3-Dichloropropene	8.42	75	42667	20.733	ug/l	93
54) cis-1,3-Dichloropropene	7.45	75	46198	20.115	ug/l	92
55) 1,1,2-Trichloroethane	8.64	97	21877	19.101	ug/l	96
56) Ethyl methacrylate	8.75	69	23182	16.722	ug/l	92
57) 1,3-Dichloropropane	8.99	76	37099	18.429	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.78	63	14045	127.632	ug/l	100
59) 2-Hexanone	9.62	43	95243	93.168	ug/l	98
60) Dibromochloromethane	8.85	129	34335	20.308	ug/l	91
61) 1,2-Dibromoethane	9.13	107	22259	16.548	ug/l	98
64) Tetrachloroethene	8.30	164	35030	22.630	ug/l	98
65) Chlorobenzene	9.94	112	100619	23.189	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	33557	20.391	ug/l	94
67) Ethyl Benzene	10.04	91	179221	23.938	ug/l	98
68) m/p-Xylenes	10.26	106	123023	45.029	ug/l	85
69) o-Xylene	10.82	106	66089	22.531	ug/l	89
70) Styrene	10.90	104	103355	22.967	ug/l	99
71) Bromoform	10.88	173	20307	17.686	ug/l	96
73) Isopropylbenzene	11.23	105	212456	23.990	ug/l	100
74) N-amyl acetate	11.46	43	43730	15.886	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.78	83	31496	16.285	ug/l	96
76) 1,2,3-Trichloropropane	11.89	75	25236	16.825	ug/l	85
77) Bromobenzene	11.59	156	49806	20.680	ug/l	96
78) n-propylbenzene	11.68	91	264103	24.162	ug/l	95
79) 2-Chlorotoluene	11.81	91	147380	22.930	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	190249	24.658	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.96	75	16768	24.434	ug/l	99
82) 4-Chlorotoluene	11.99	91	161994	23.215	ug/l	96
83) tert-Butylbenzene	12.21	119	173696	23.082	ug/l	88
84) 1,2,4-Trimethylbenzene	12.28	105	186790	22.772	ug/l	95
85) sec-Butylbenzene	12.39	105	241875	23.088	ug/l	99
86) p-Isopropyltoluene	12.54	119	205709	23.668	ug/l	99
87) 1,3-Dichlorobenzene	12.56	146	97951	21.996	ug/l	98
88) 1,4-Dichlorobenzene	12.65	146	96373	21.776	ug/l	97
89) n-Butylbenzene	12.92	91	194524	23.037	ug/l	95
90) Hexachloroethane	12.99	117	44376	22.721	ug/l	80
91) 1,2-Dichlorobenzene	13.02	146	90528	21.138	ug/l	96
93) 1,2,4-Trichlorobenzene	14.26	180	61237	19.417	ug/l	97

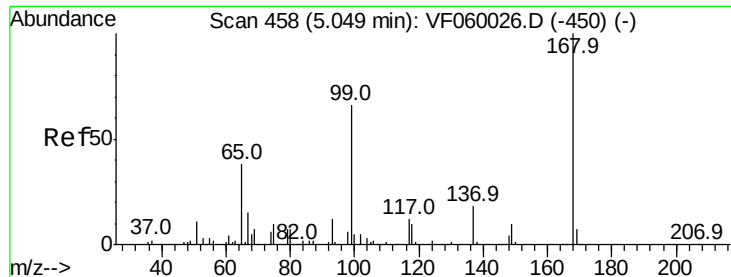
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082818\
Data File : VF060147.D
Acq On : 28 Aug 2018 14:00
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Sample : VF0828SBSD01
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Instrument :
MSVOA_F
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Quant Time: Aug 28 14:55:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 04:43:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.25	225	44428	22.634	ug/l	99
95) Naphthalene	14.52	128	67997	14.145	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	54355	18.065	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

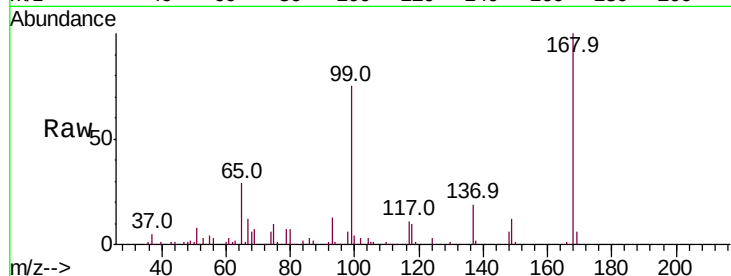
VF0828SBS01

Tot Ion:168 Resp: 153305

Ion Ratio Lower Upper

168 100

99 75.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

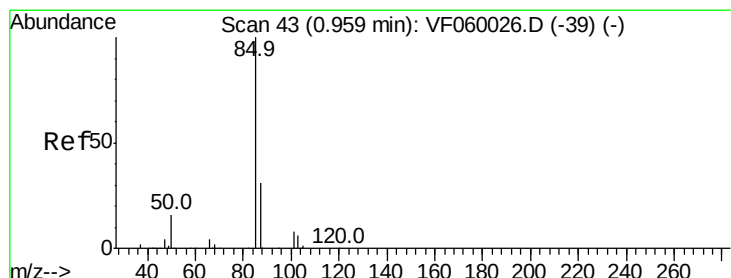
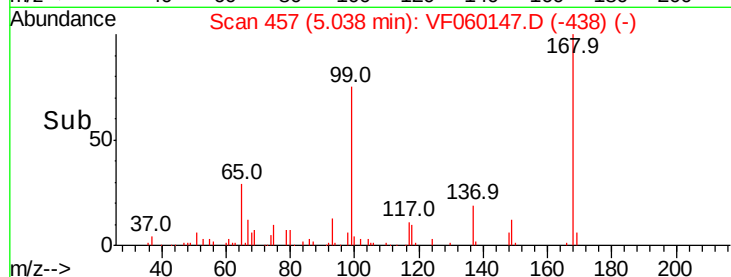
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: 24.686 ug/l

RT: 0.96 min Scan# 43

Delta R.T. -0.00 min

Lab File: VF060147.D

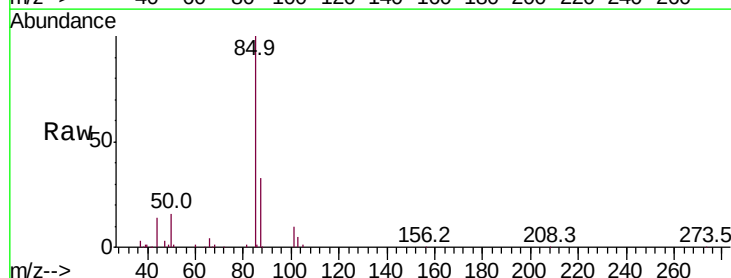
Acq: 28 Aug 2018 14:00

Tgt Ion: 85 Resp: 49825

Ion Ratio Lower Upper

85 100

87 32.9 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

30000

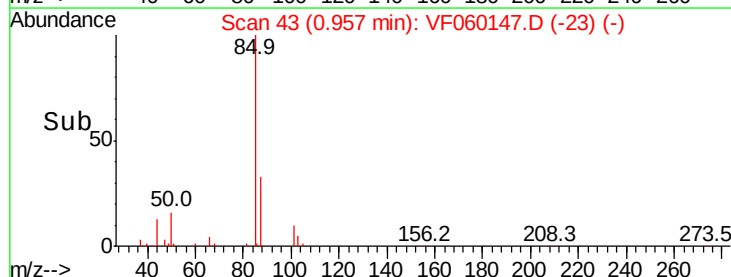
20000

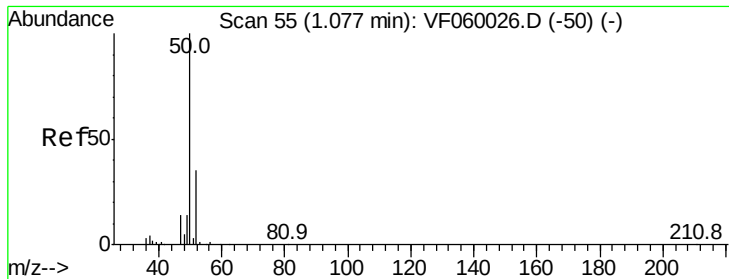
10000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 21.050 ug/l

RT: 1.08 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

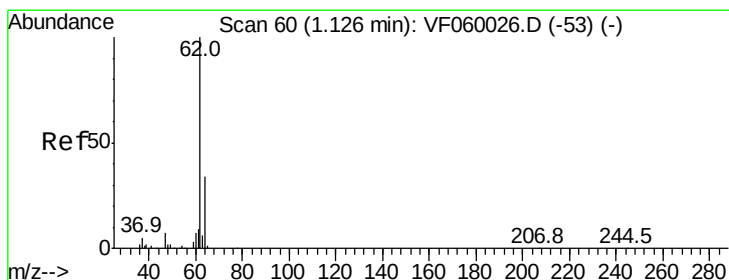
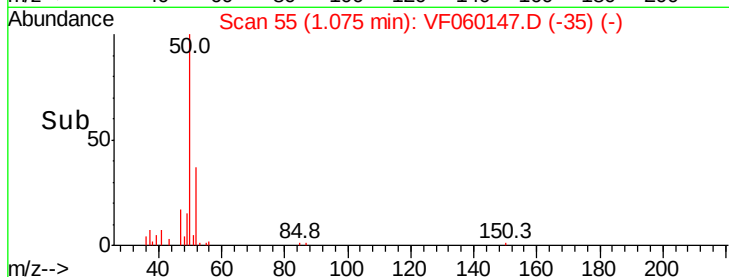
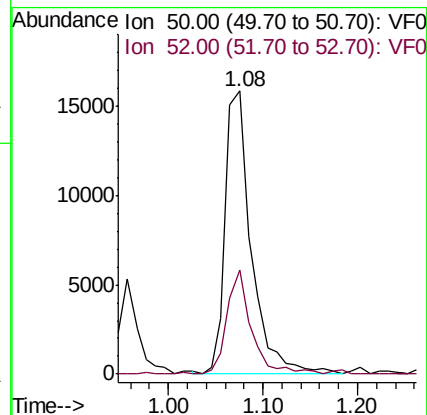
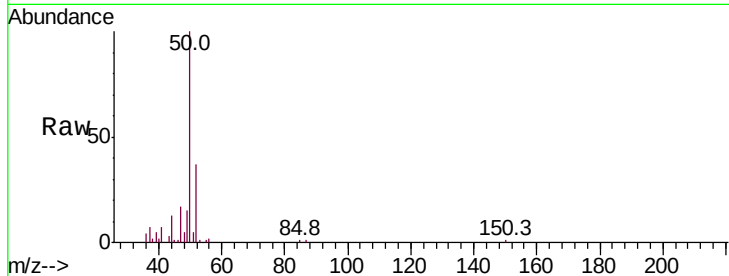
VF0828SBSD01

Tot Ion: 50 Resp: 30383

Ion Ratio Lower Upper

50 100

52 36.8 27.6 41.4



#4

Vinyl Chloride

Concen: 18.743 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.00 min

Lab File: VF060147.D

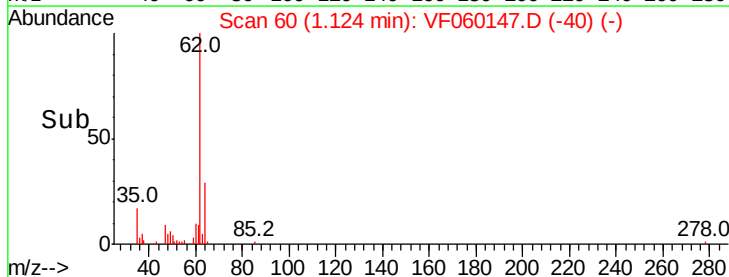
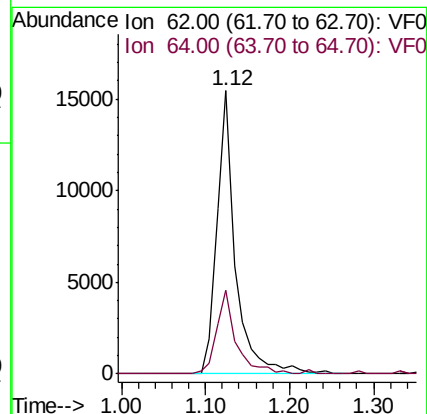
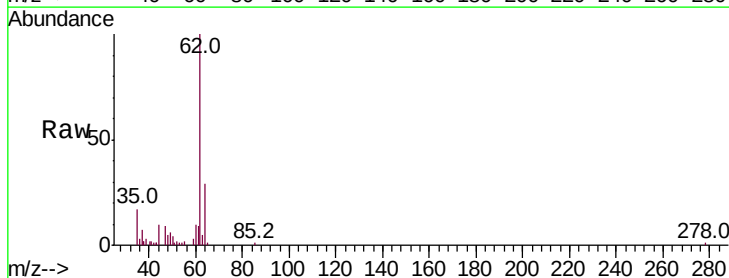
Acq: 28 Aug 2018 14:00

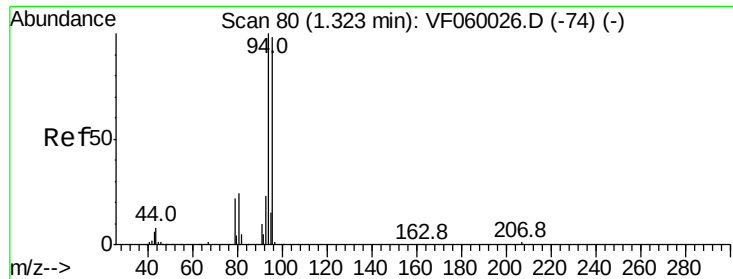
Tgt Ion: 62 Resp: 23487

Ion Ratio Lower Upper

62 100

64 29.5 27.4 41.2





#5

Bromomethane

Concen: 21.554 ug/l

RT: 1.31 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

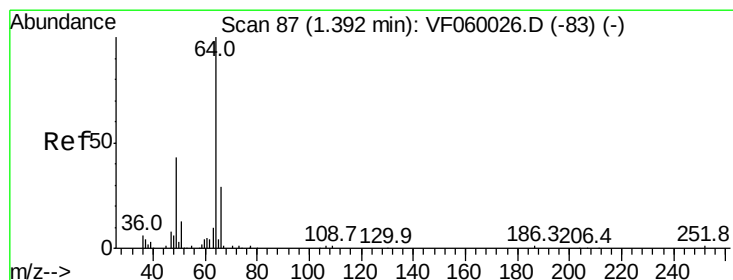
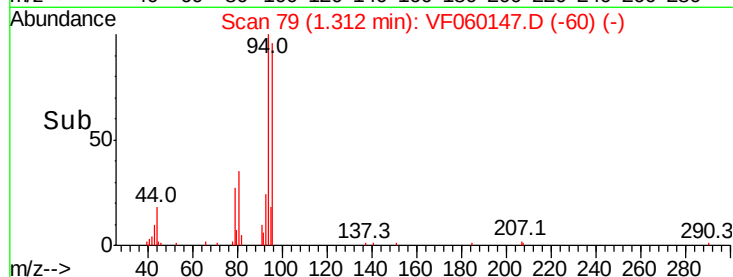
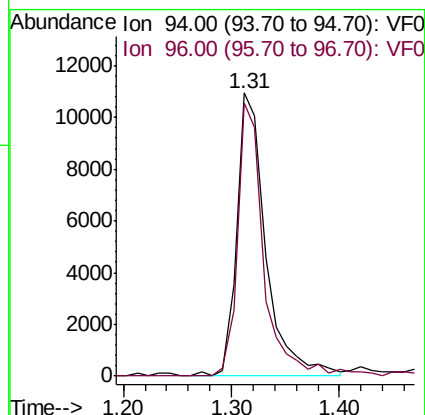
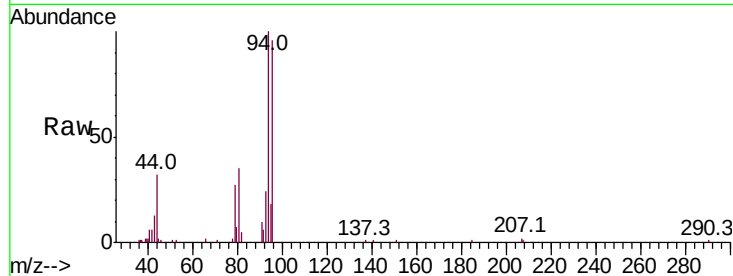
VF0828SBS01

Tot Ion: 94 Resp: 20525

Ion Ratio Lower Upper

94 100

96 96.4 78.6 118.0



#6

Chloroethane

Concen: 25.807 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF060147.D

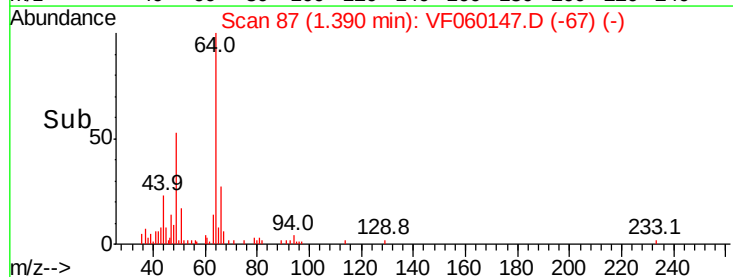
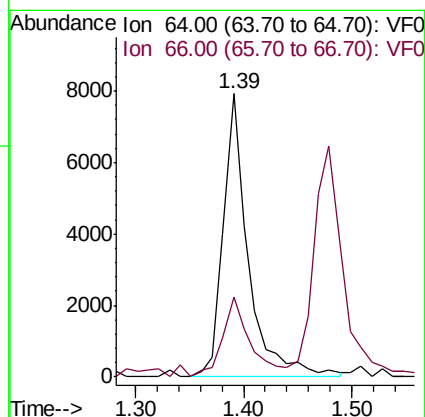
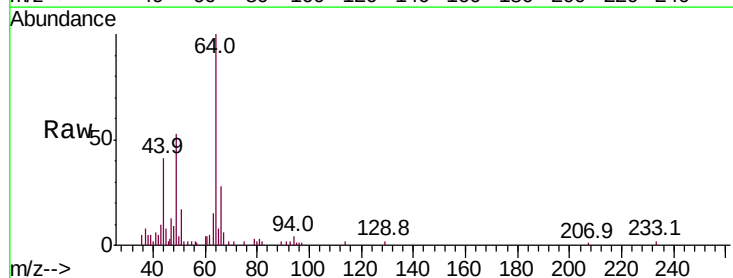
Acq: 28 Aug 2018 14:00

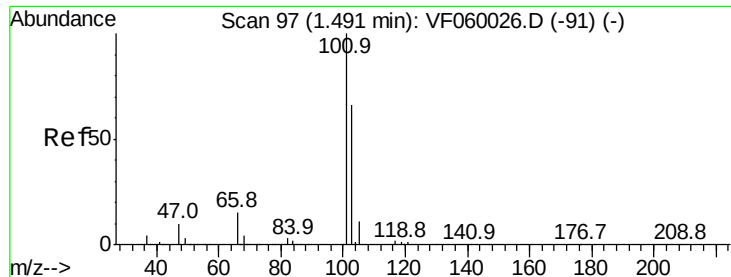
Tgt Ion: 64 Resp: 12748

Ion Ratio Lower Upper

64 100

66 28.0 24.1 36.1





#7

Trichlorofluoromethane

Concen: 29.633 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

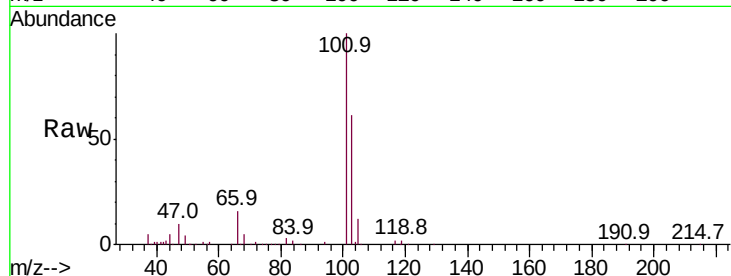
VF0828SBSD01

Tot Ion:101 Resp: 74673

Ion Ratio Lower Upper

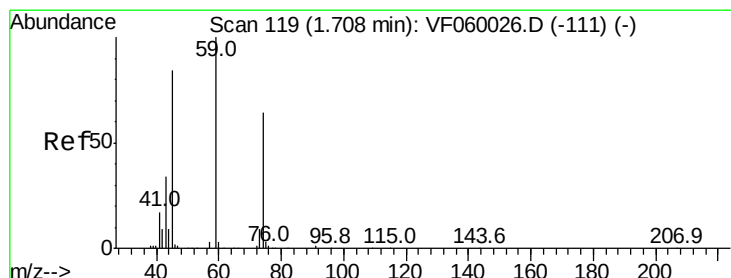
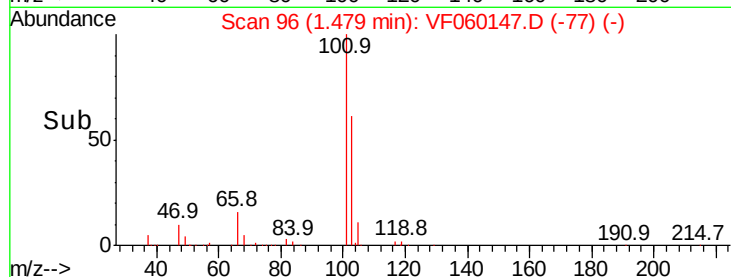
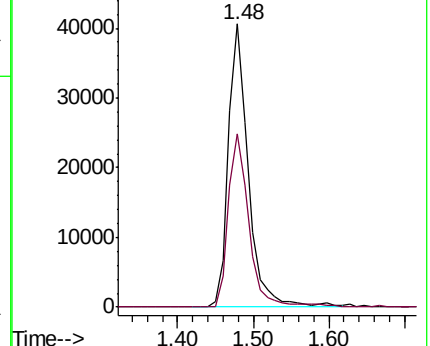
101 100

103 61.2 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 13.331 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF060147.D

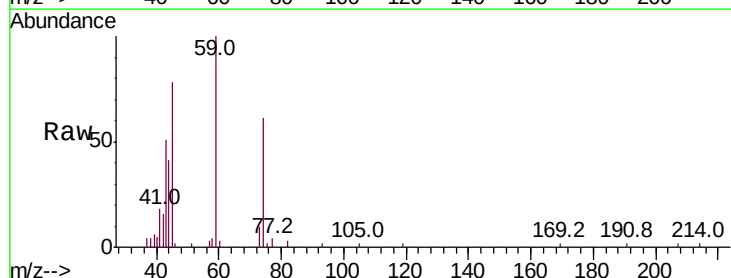
Acq: 28 Aug 2018 14:00

Tgt Ion: 74 Resp: 6006

Ion Ratio Lower Upper

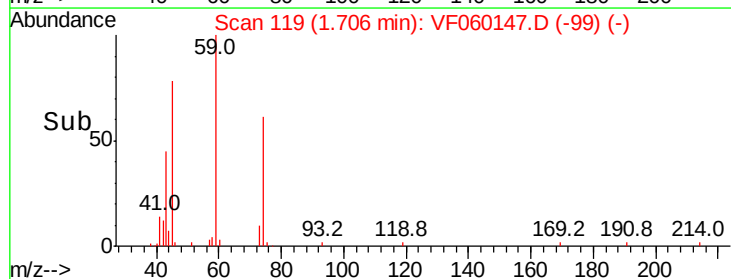
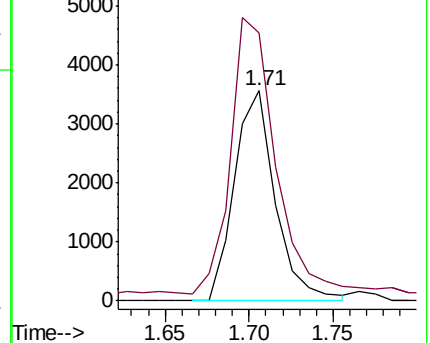
74 100

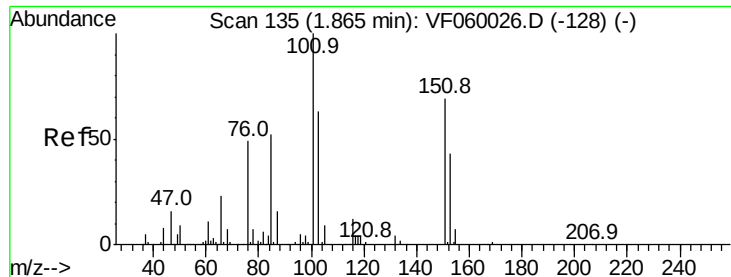
45 127.5 66.0 198.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.670 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBSD01

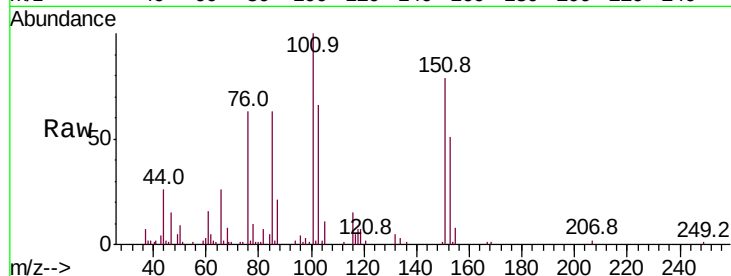
Tot Ion:101 Resp: 27341

Ion Ratio Lower Upper

101 100

85 63.0 41.5 62.3#

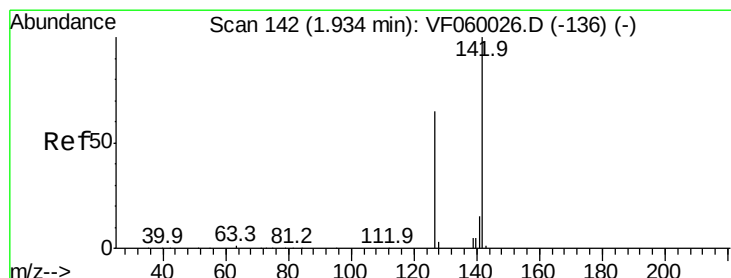
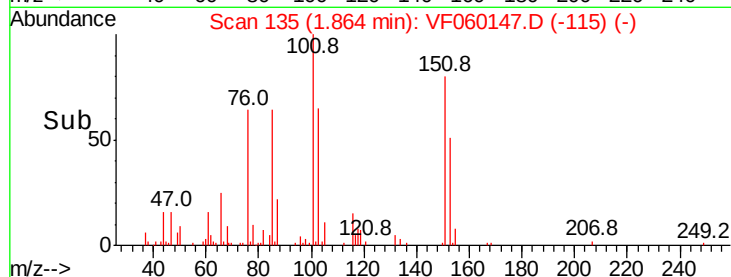
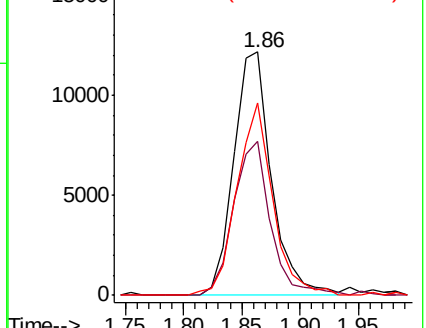
151 79.3 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 14.467 ug/l

RT: 1.93 min Scan# 142

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

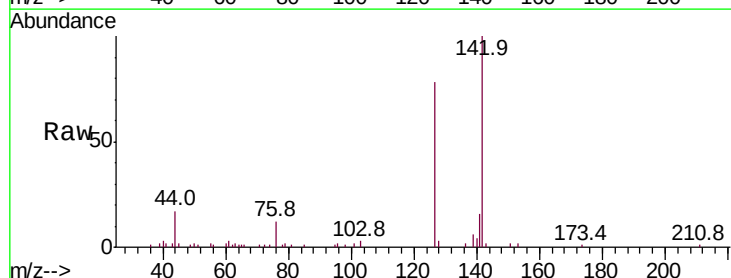
Tgt Ion:142 Resp: 25300

Ion Ratio Lower Upper

142 100

127 78.2 51.8 77.6#

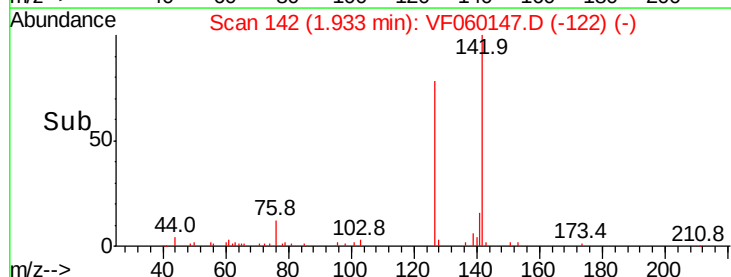
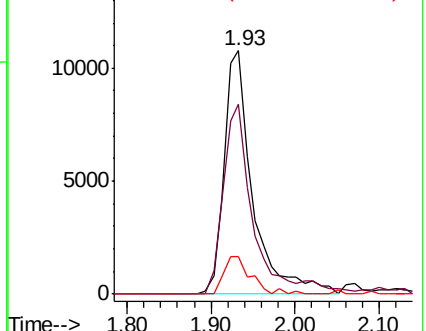
141 15.6 11.9 17.9

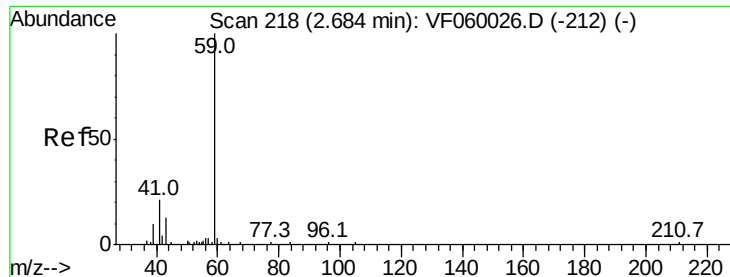


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

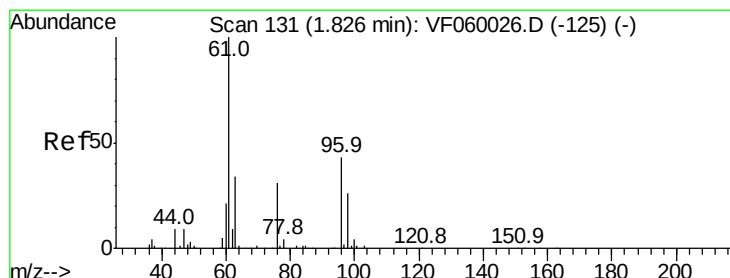
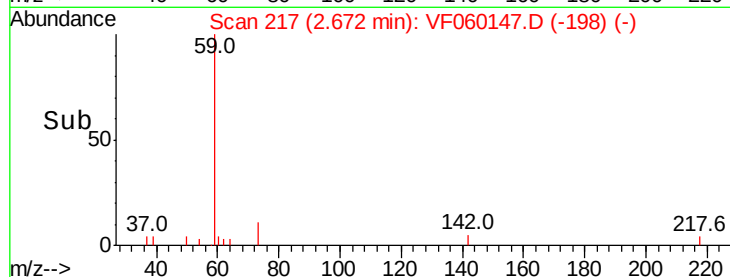
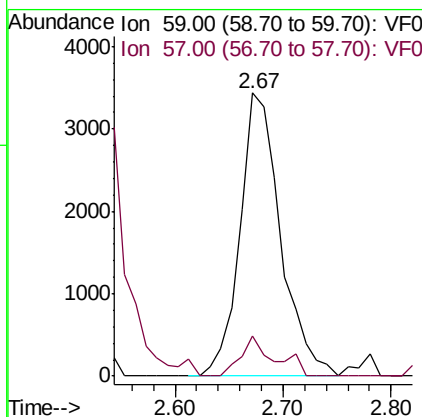
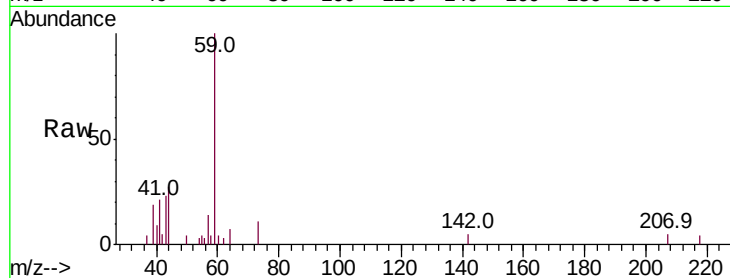




#11
Tert butyl alcohol
Concen: 80.415 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

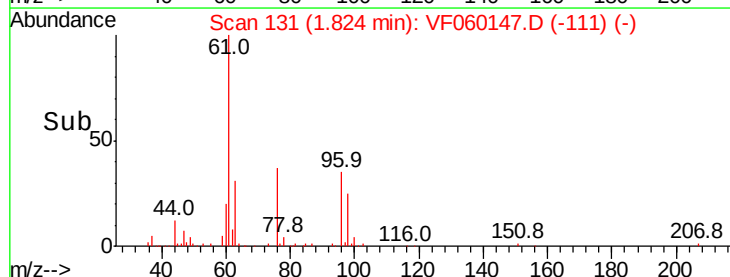
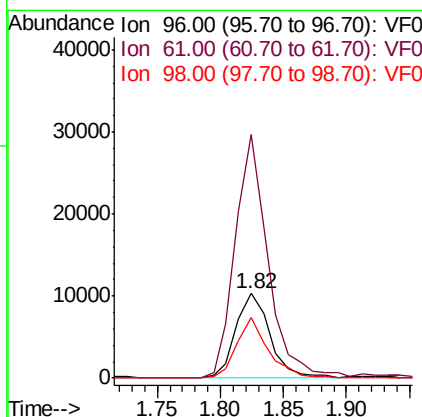
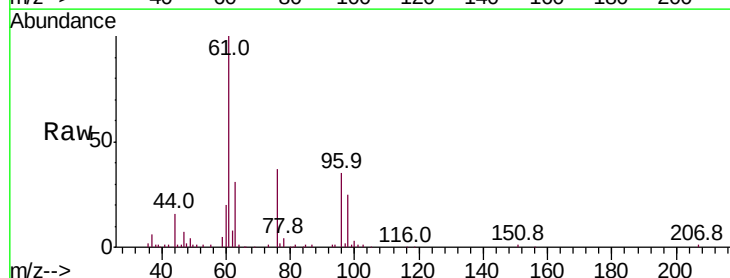
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBS01

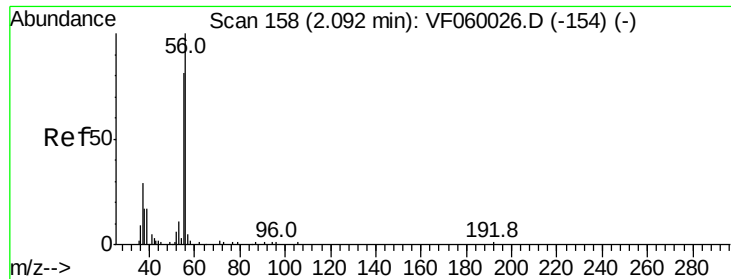
Tot Ion: 59 Resp: 8976
Ion Ratio Lower Upper
59 100
57 14.1 5.4 8.2#



#12
1,1-Dichloroethene
Concen: 19.983 ug/l
RT: 1.82 min Scan# 131
Delta R.T. -0.00 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion: 96 Resp: 19474
Ion Ratio Lower Upper
96 100
61 287.8 185.0 277.6#
98 71.1 47.8 71.8

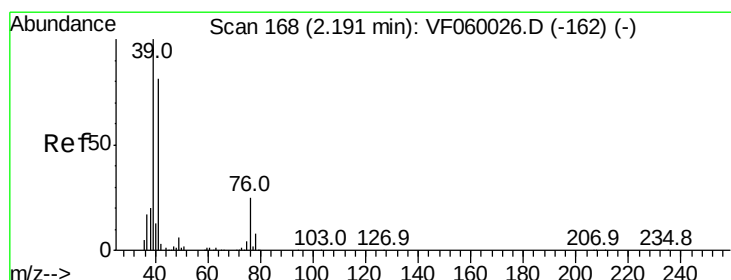
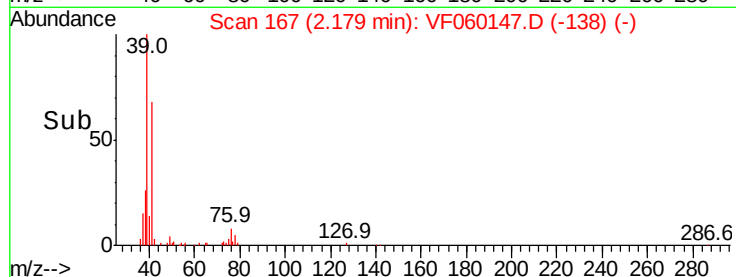
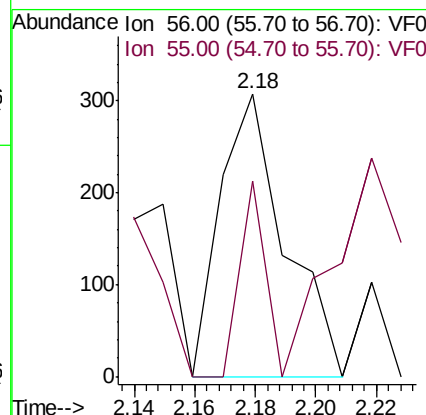
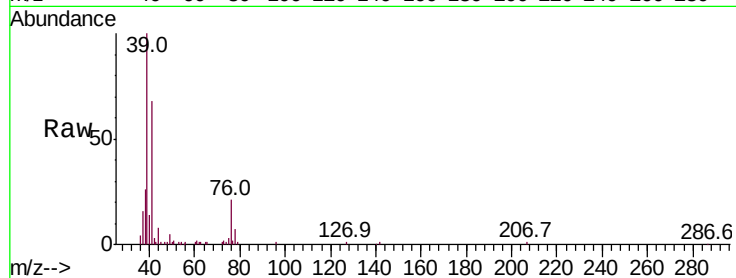




#13
Acrolein
Concen: 32.319 ug/l
RT: 2.18 min Scan# 167
Delta R.T. 0.09 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

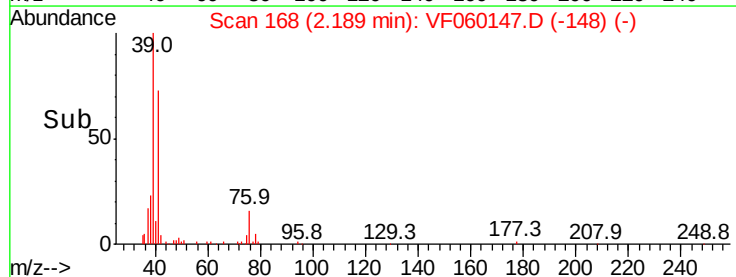
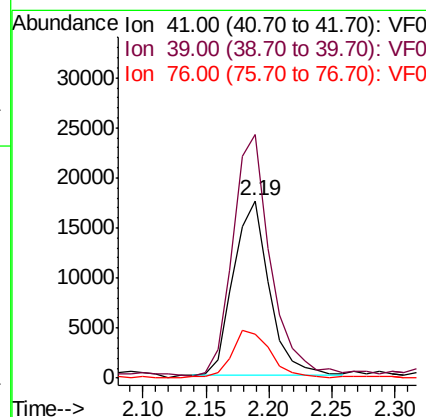
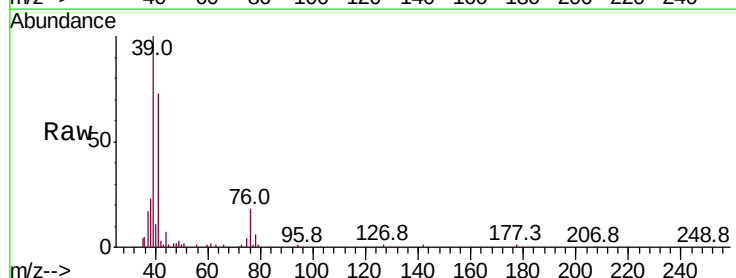
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBSD01

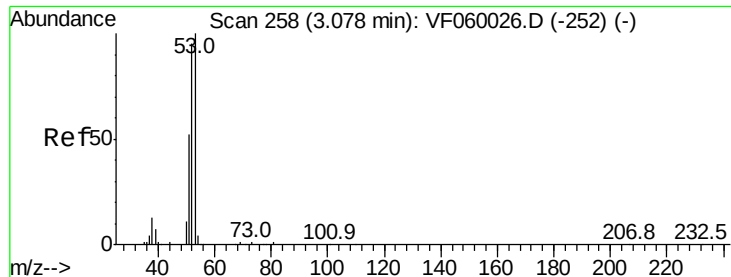
Tot Ion: 56 Resp: 457
Ion Ratio Lower Upper
56 100
55 68.8 65.6 98.4



#14
Allyl chloride
Concen: 19.940 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.00 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion: 41 Resp: 34512
Ion Ratio Lower Upper
41 100
39 137.5 99.3 148.9
76 24.9 24.3 36.5





#15

Acrylonitrile

Concen: 79.052 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

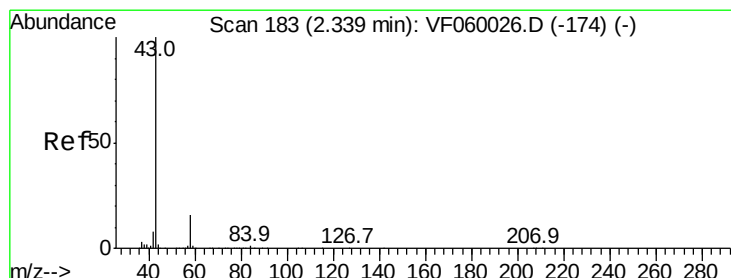
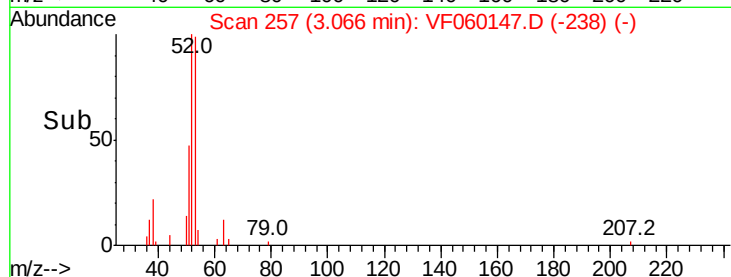
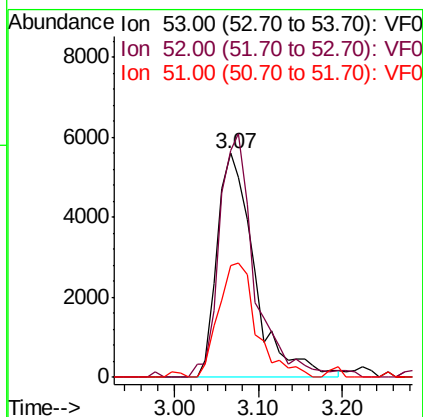
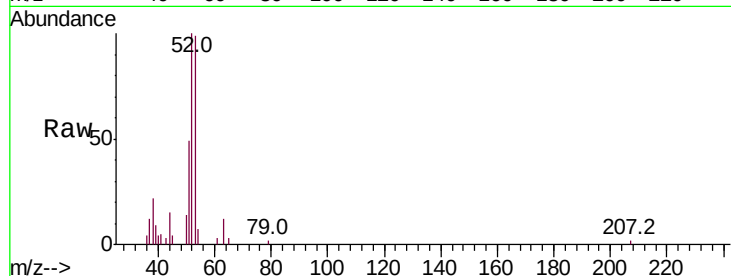
Tot Ion: 53 Resp: 17413

Ion Ratio Lower Upper

53 100

52 101.3 75.8 113.8

51 49.9 42.1 63.1



#16

Acetone

Concen: 84.818 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF060147.D

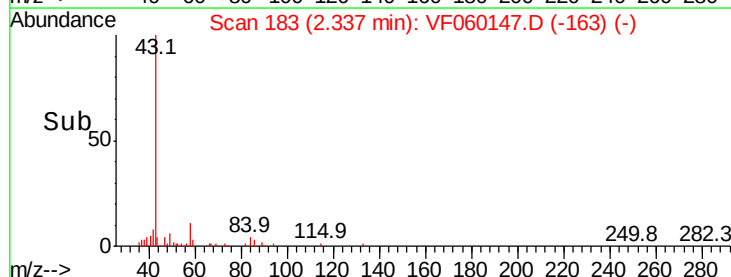
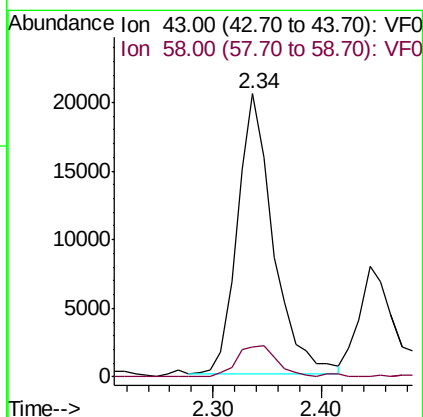
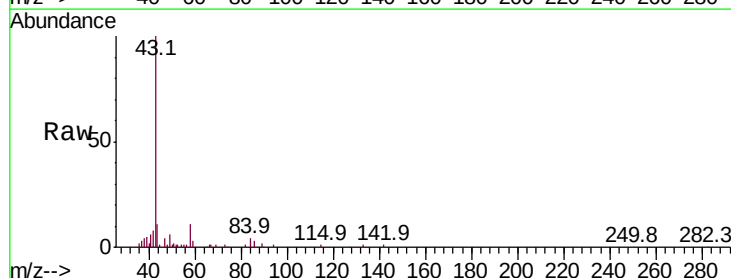
Acq: 28 Aug 2018 14:00

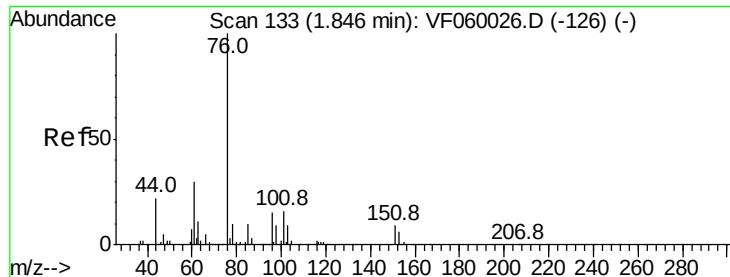
Tgt Ion: 43 Resp: 46772

Ion Ratio Lower Upper

43 100

58 10.6 12.6 19.0#





#17

Carbon Disulfide

Concen: 20.874 ug/l

RT: 1.84 min Scan# 133

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

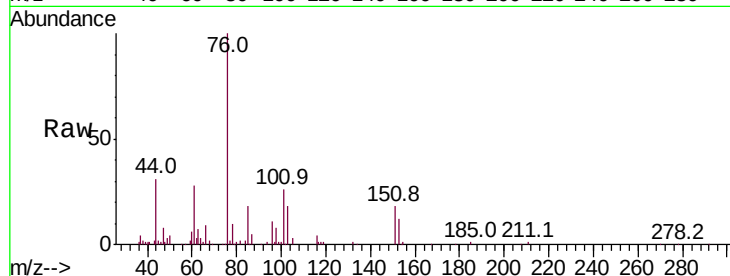
VF0828SBSD01

Tot Ion: 76 Resp: 63690

Ion Ratio Lower Upper

76 100

78 9.6 8.4 12.6



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.84

30000

25000

20000

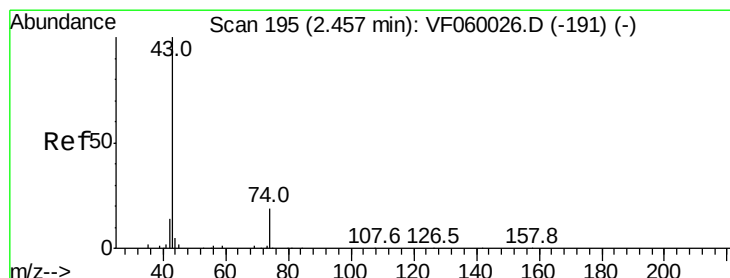
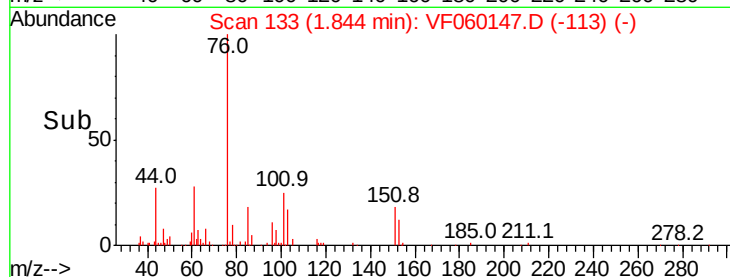
15000

10000

5000

0

Time--> 1.70 1.80 1.90 2.00



#18

Methyl Acetate

Concen: 14.755 ug/l

RT: 2.45 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF060147.D

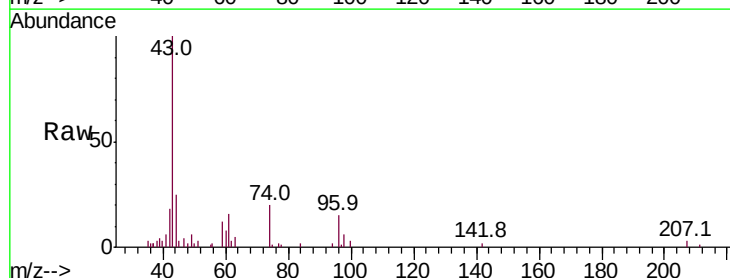
Acq: 28 Aug 2018 14:00

Tgt Ion: 43 Resp: 16628

Ion Ratio Lower Upper

43 100

74 19.6 13.8 20.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

10000

8000

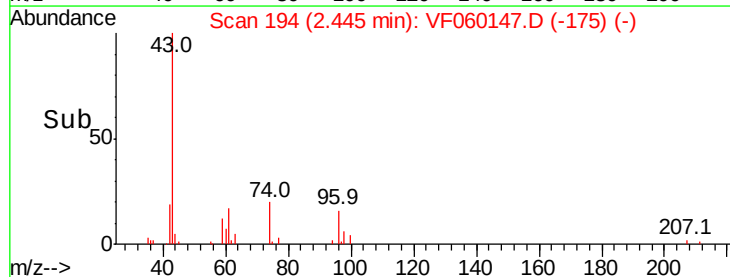
6000

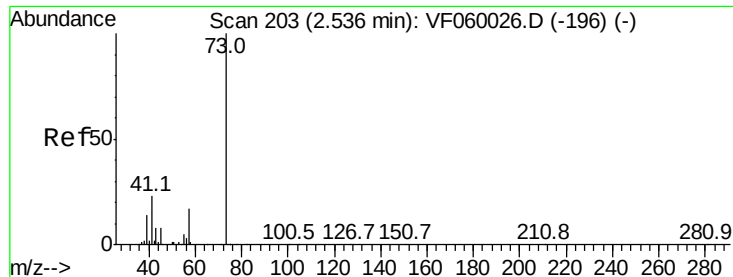
4000

2000

0

Time--> 2.40 2.45 2.50



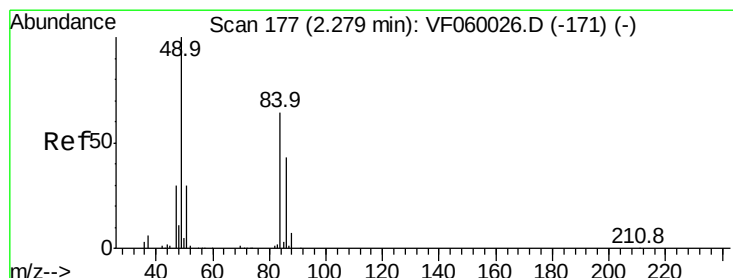
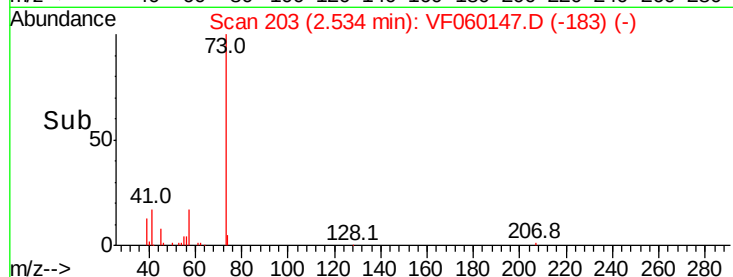
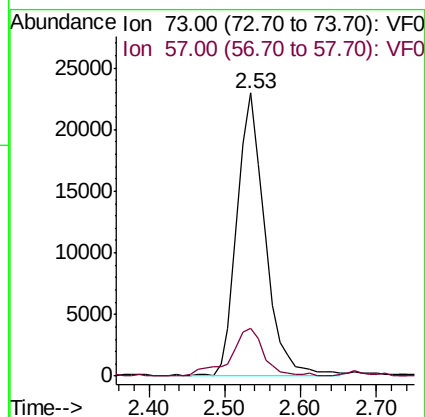
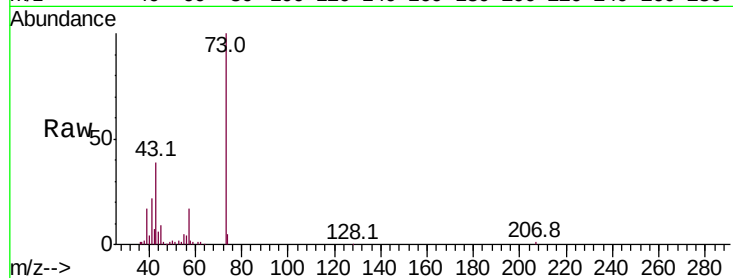


#19

Methvl tert-butyl Ether
 Concen: 18.917 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. -0.00 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

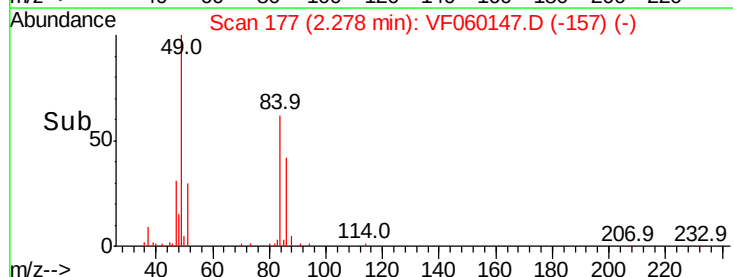
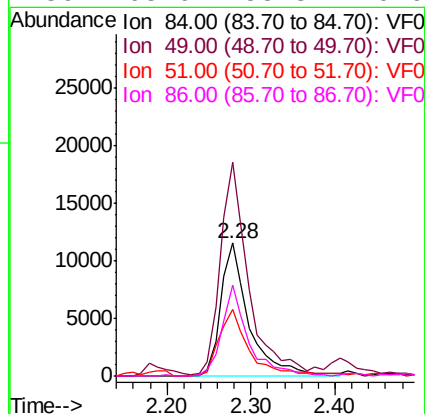
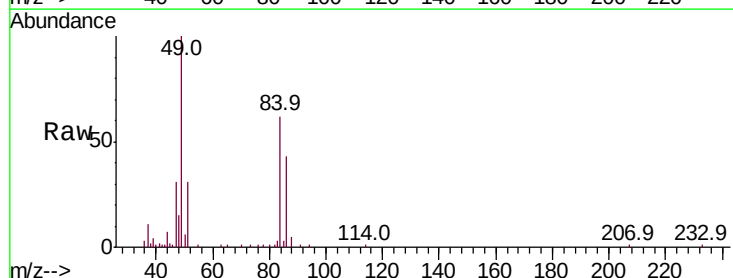
Tot Ion: 73 Resp: 59065
 Ion Ratio Lower Upper
 73 100
 57 16.8 13.7 20.5

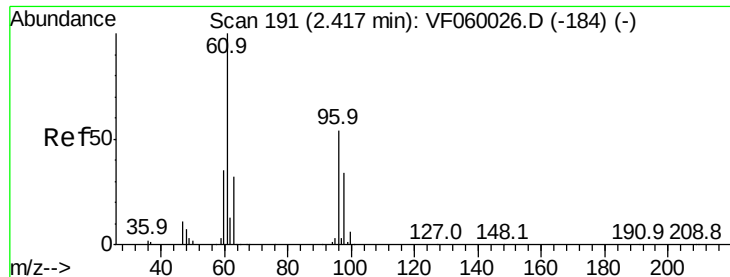


#20

Methylene Chloride
 Concen: 21.942 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. -0.00 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion: 84 Resp: 26953
 Ion Ratio Lower Upper
 84 100
 49 160.6 125.4 188.0
 51 49.8 38.3 57.5
 86 68.6 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 21.903 ug/l

RT: 2.42 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBSD01

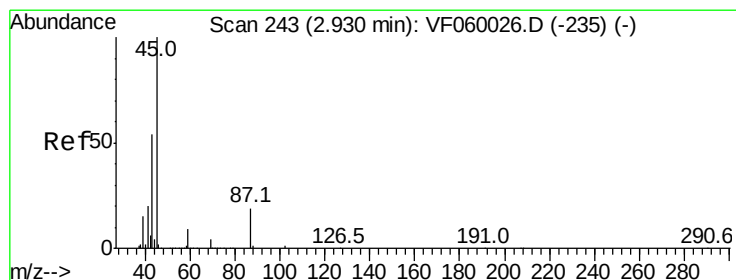
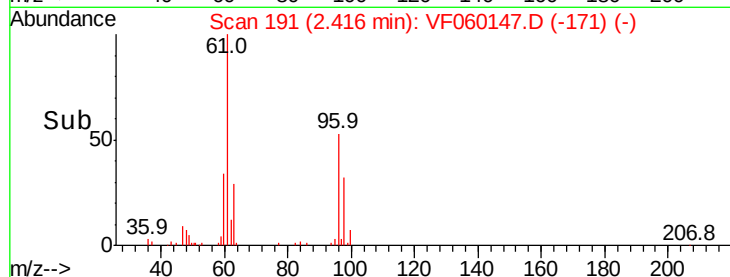
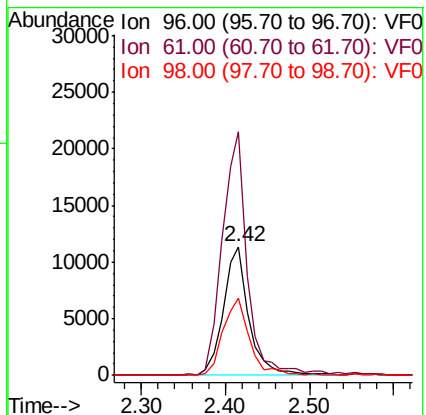
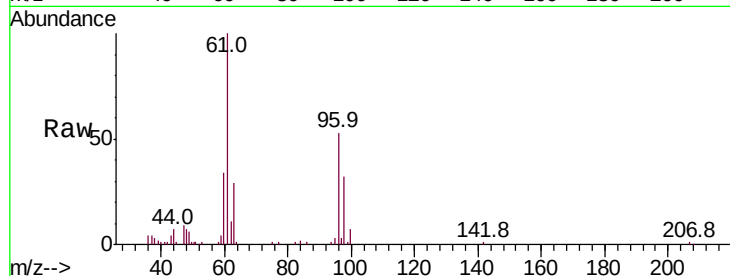
Tot Ion: 96 Resp: 23883

Ion Ratio Lower Upper

96 100

61 188.8 147.4 221.0

98 59.7 49.8 74.6



#22

Diisopropyl ether

Concen: 19.196 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Tgt Ion: 45 Resp: 74398

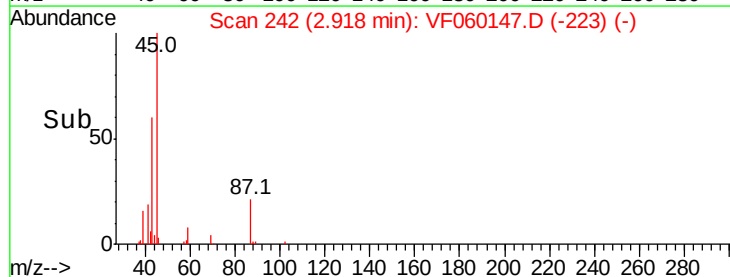
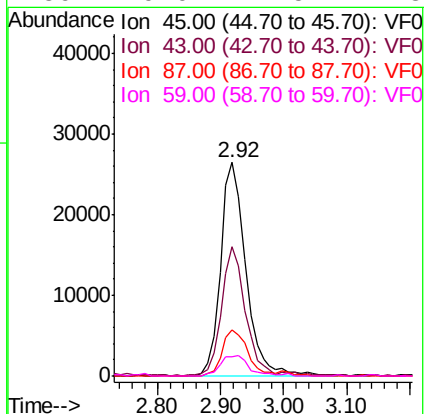
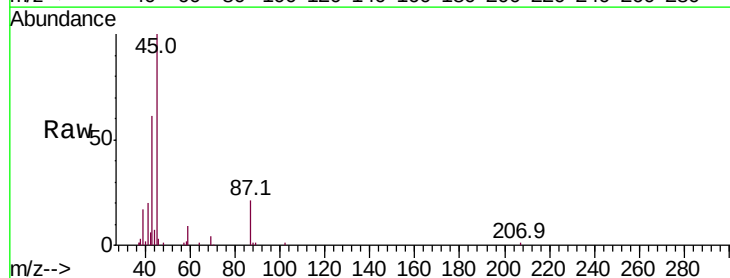
Ion Ratio Lower Upper

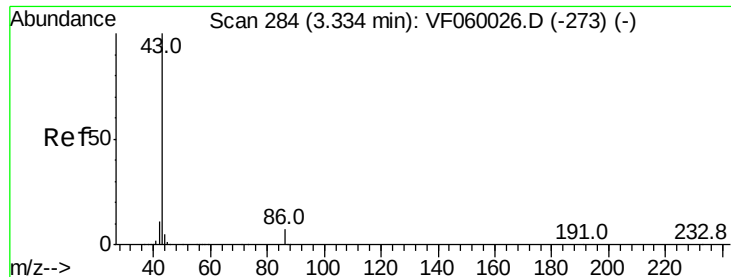
45 100

43 60.6 43.4 65.2

87 21.4 15.4 23.2

59 9.0 7.5 11.3





#23

Vinyl Acetate

Concen: 74.352 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

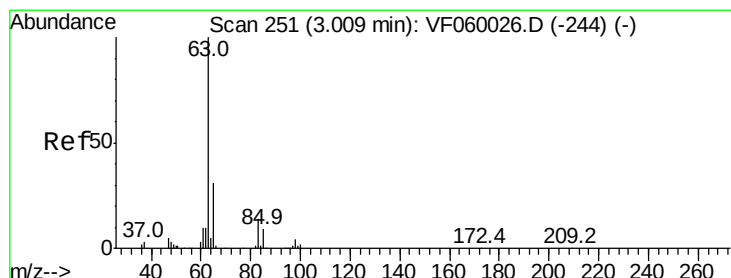
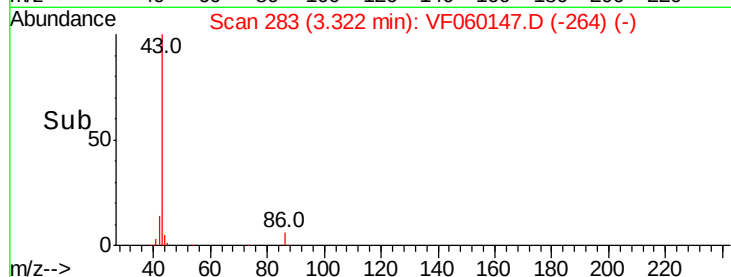
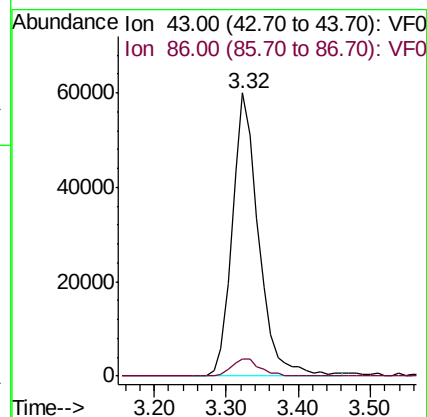
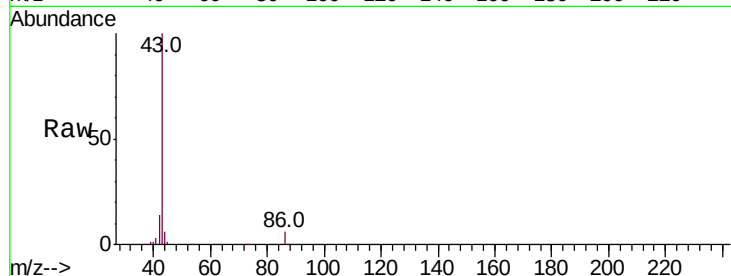
VF0828SBS01

Tot Ion: 43 Resp: 152657

Ion Ratio Lower Upper

43 100

86 6.2 5.6 8.4



#24

1,1-Dichloroethane

Concen: 25.704 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

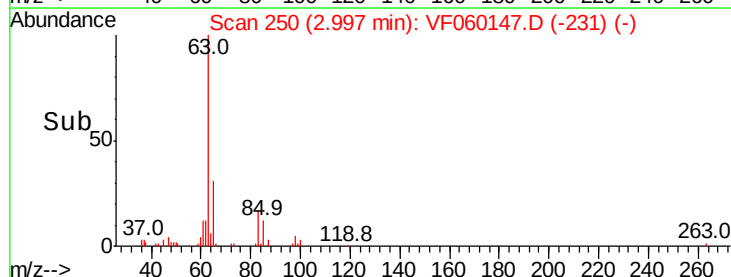
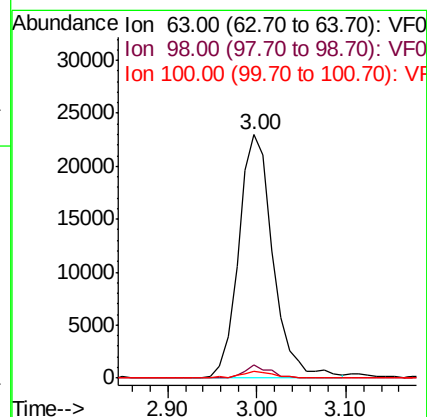
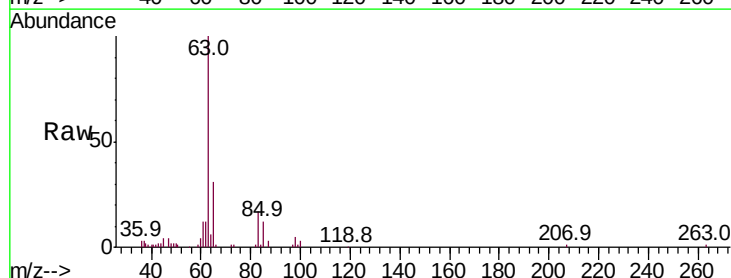
Tgt Ion: 63 Resp: 61540

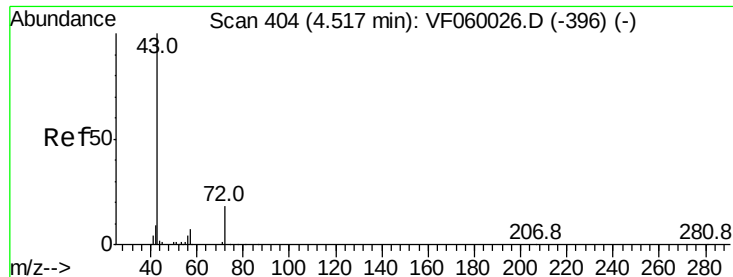
Ion Ratio Lower Upper

63 100

98 5.3 2.1 6.5

100 3.0 1.1 3.3





#25

2-Butanone

Concen: 74.106 ug/l

RT: 4.49 min Scan# 401

Delta R.T. -0.03 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

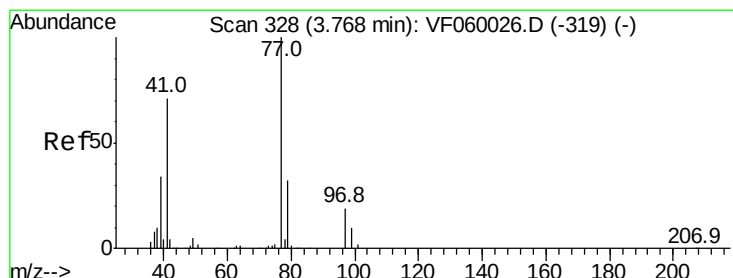
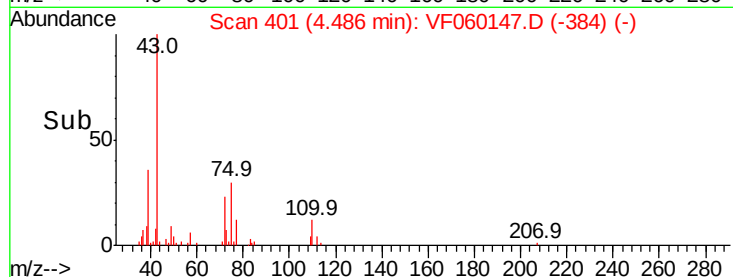
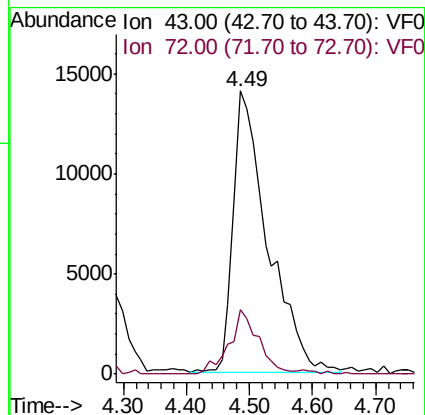
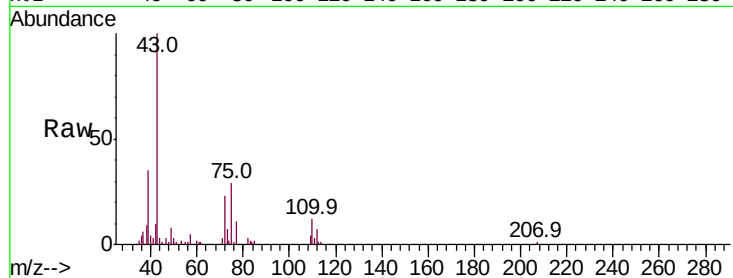
VF0828SBSD01

Tot Ion: 43 Resp: 53081

Ion Ratio Lower Upper

43 100

72 22.6 15.0 22.6#



#26

2,2-Dichloropropane

Concen: 24.451 ug/l

RT: 3.76 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF060147.D

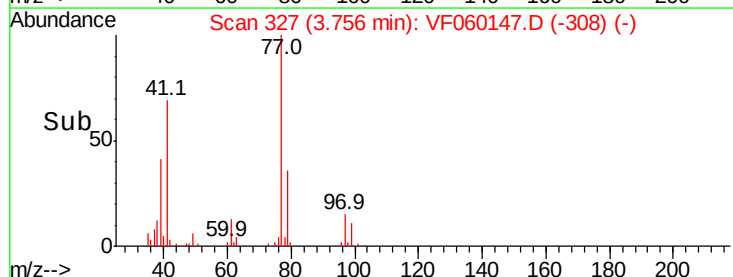
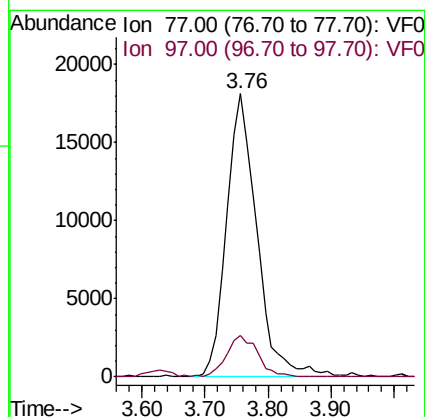
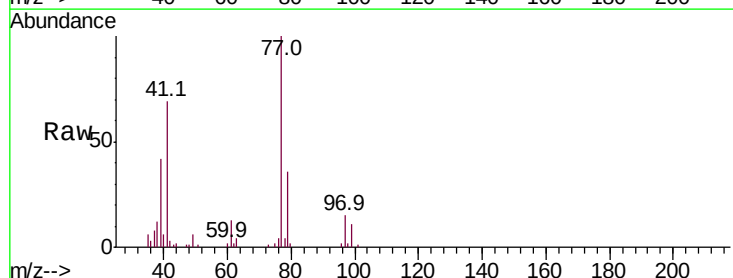
Acq: 28 Aug 2018 14:00

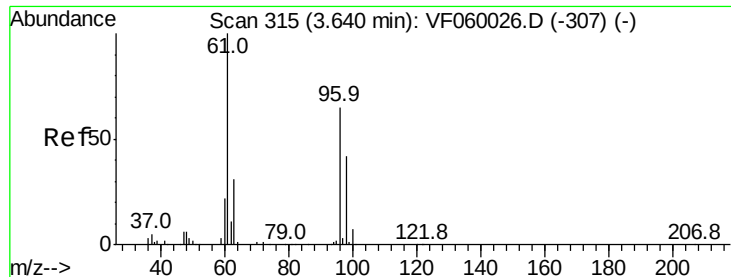
Tgt Ion: 77 Resp: 60566

Ion Ratio Lower Upper

77 100

97 16.3 9.7 29.1





#27

cis-1,2-Dichloroethene

Concen: 19.725 ug/l

RT: 3.63 min Scan# 314

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

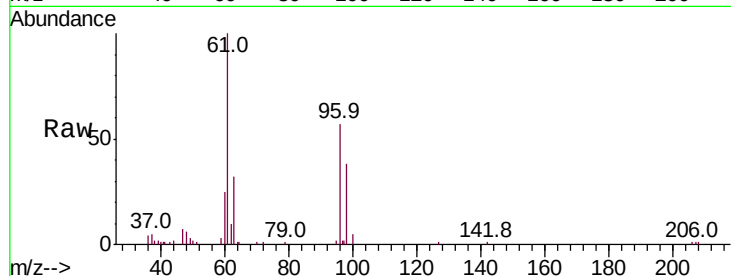
Tot Ion: 96 Resp: 30479

Ion Ratio Lower Upper

96 100

61 169.4 0.0 307.6

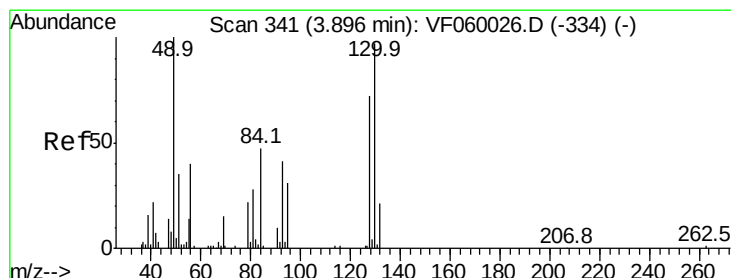
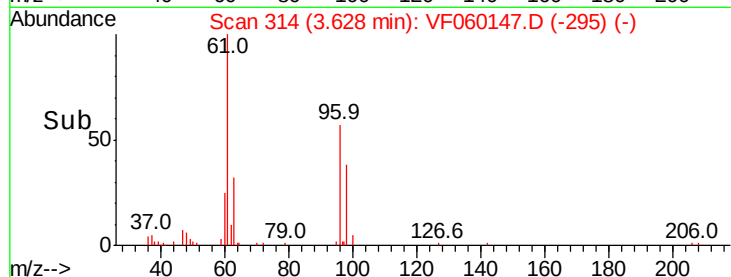
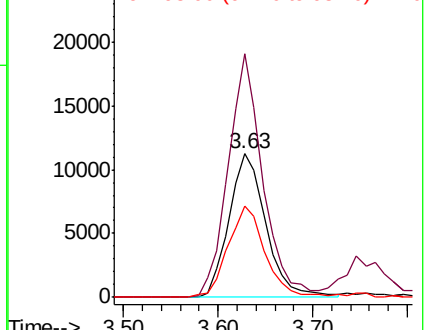
98 63.6 0.0 128.4



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



#28

Bromochloromethane

Concen: 19.425 ug/l

RT: 3.88 min Scan# 340

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

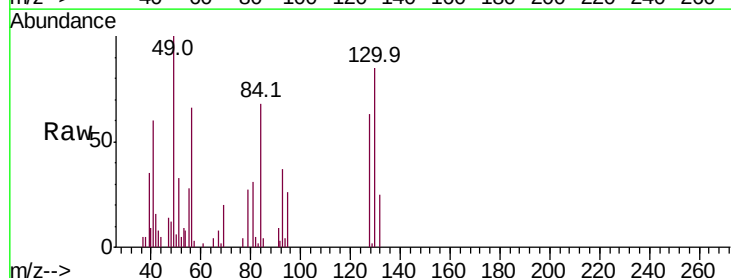
Tgt Ion: 49 Resp: 19635

Ion Ratio Lower Upper

49 100

129 2.1 0.0 7.4

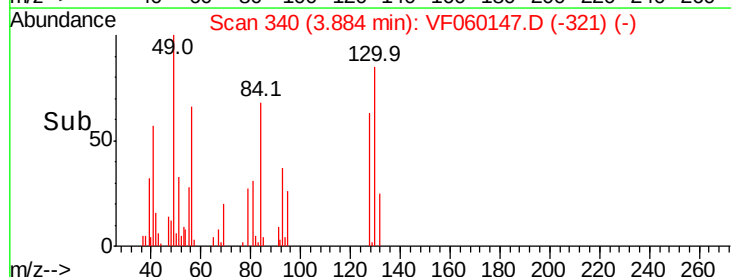
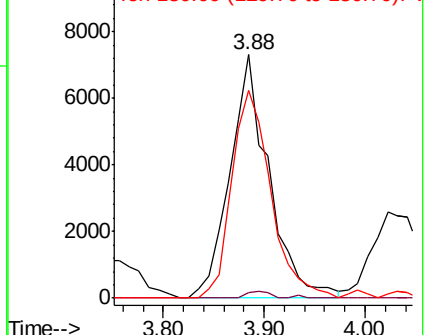
130 85.2 78.0 117.0

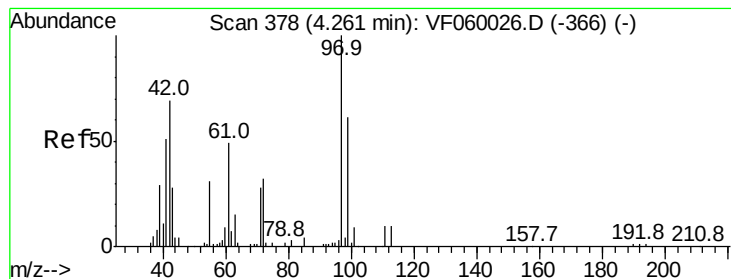


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 67.151 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.02 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

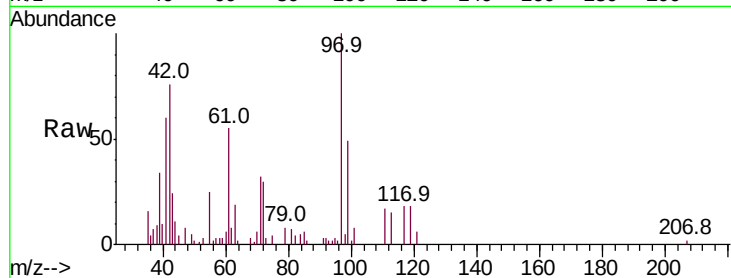
Tot Ion: 42 Resp: 18160

Ion Ratio Lower Upper

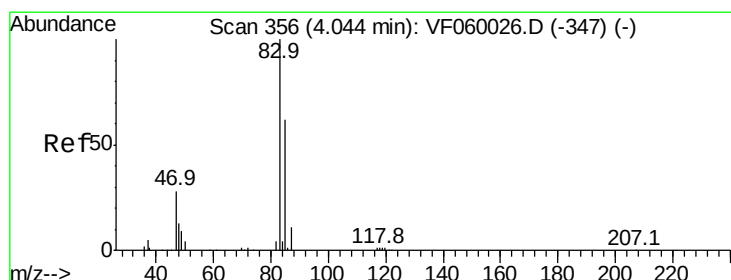
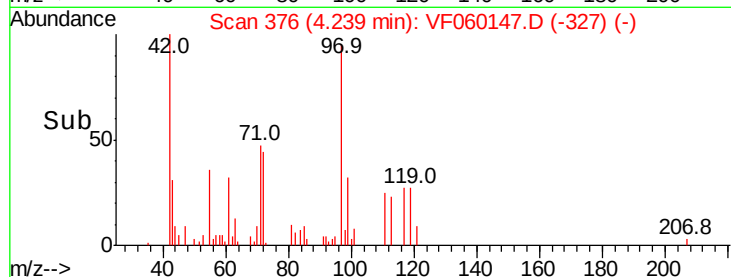
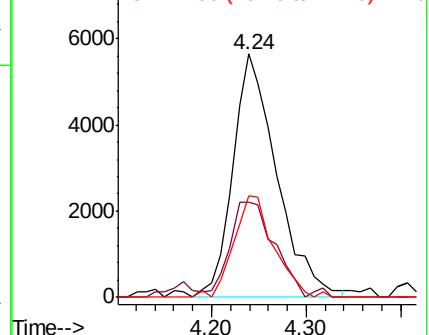
42 100

72 36.8 31.4 47.2

71 37.8 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



#30

Chloroform

Concen: 21.354 ug/l

RT: 4.03 min Scan# 355

Delta R.T. -0.01 min

Lab File: VF060147.D

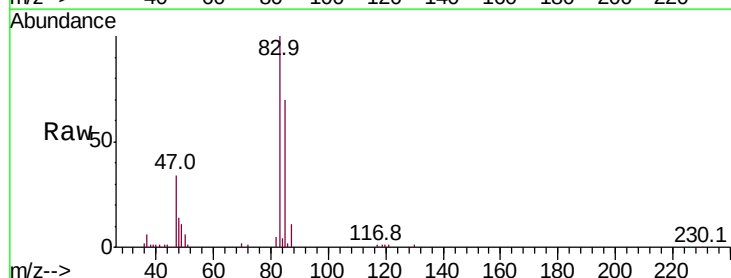
Acq: 28 Aug 2018 14:00

Tgt Ion: 83 Resp: 71765

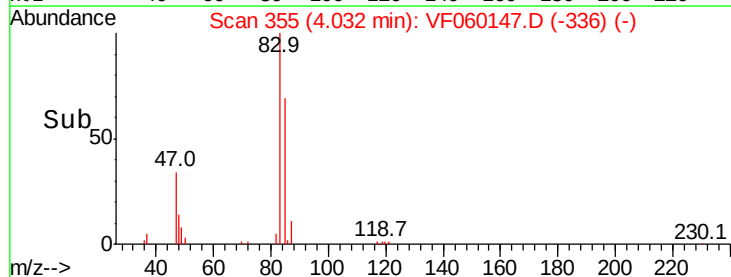
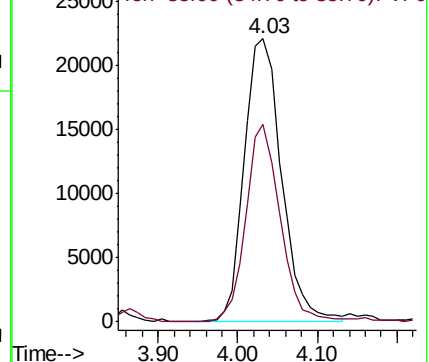
Ion Ratio Lower Upper

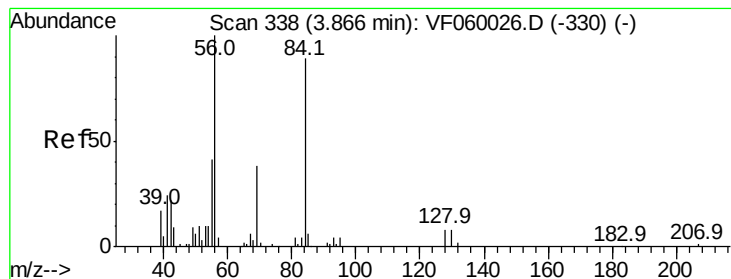
83 100

85 69.8 49.5 74.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 19.569 ug/l

RT: 3.85 min Scan# 337

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

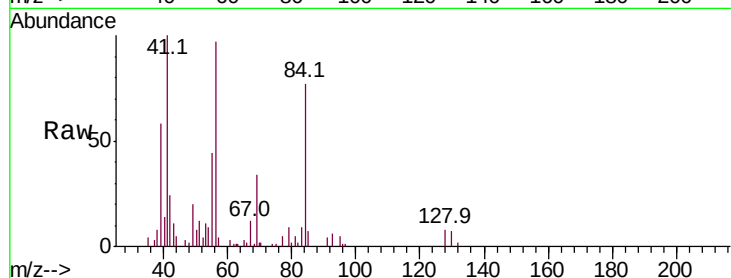
Tot Ion: 56 Resp: 35700

Ion Ratio Lower Upper

56 100

69 34.9 30.4 45.6

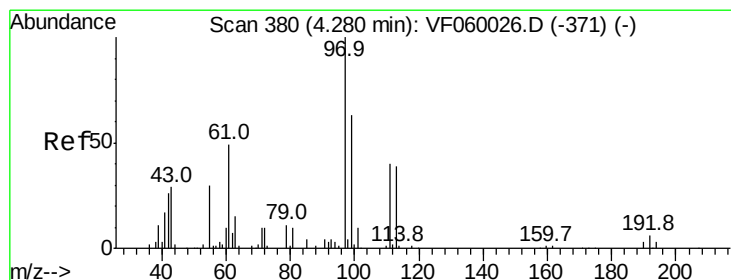
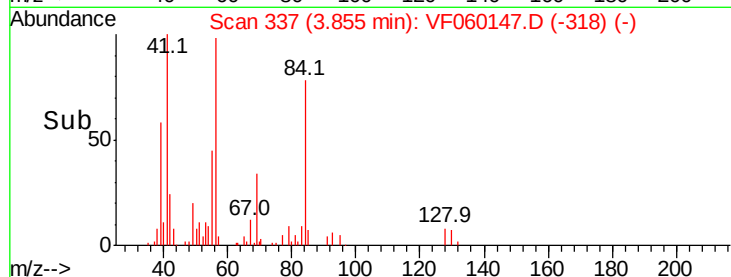
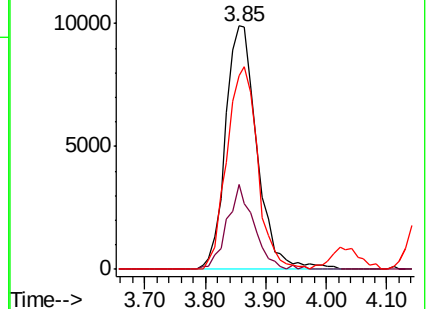
84 79.6 71.4 107.2



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: 25.682 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

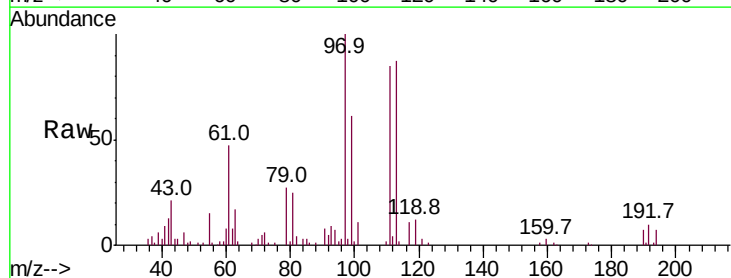
Tgt Ion: 97 Resp: 73910

Ion Ratio Lower Upper

97 100

99 61.0 50.3 75.5

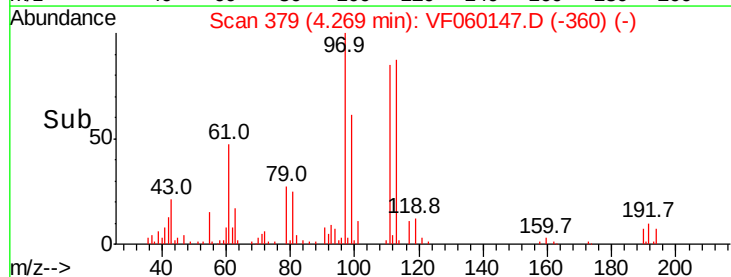
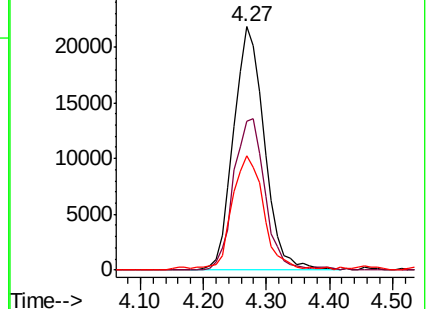
61 47.1 40.3 60.5

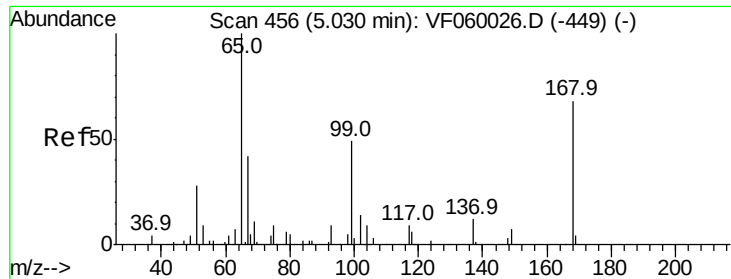


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

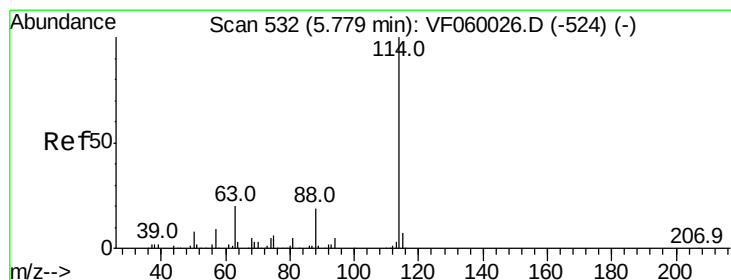
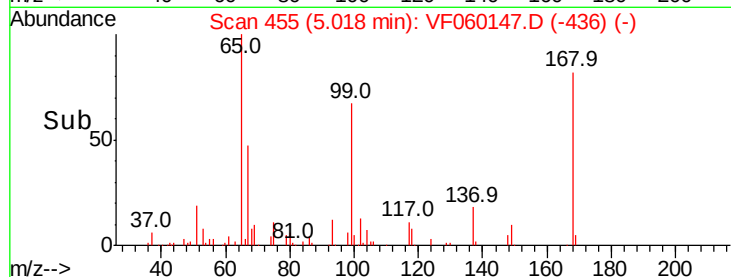
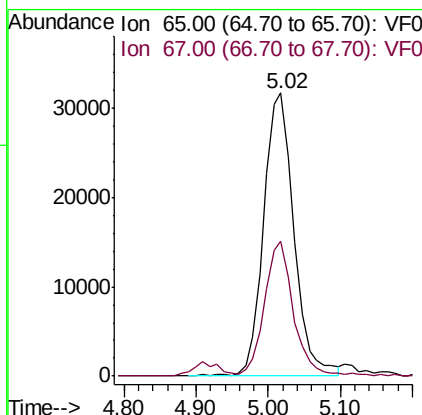
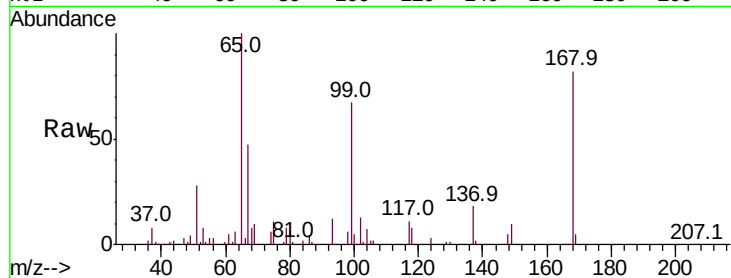




#33
 1,2-Dichloroethane-d4
 Concen: 44.351 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

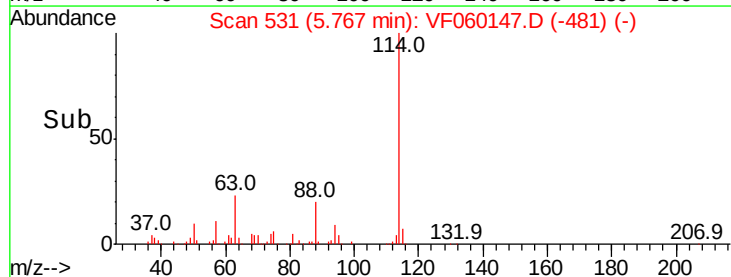
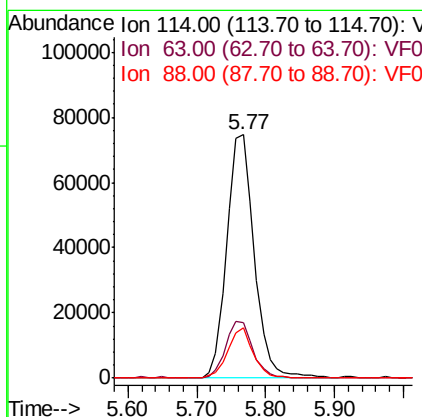
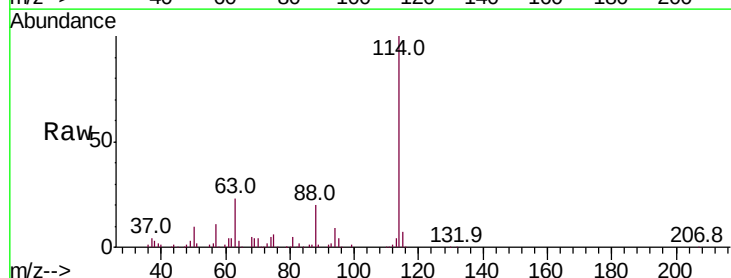
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

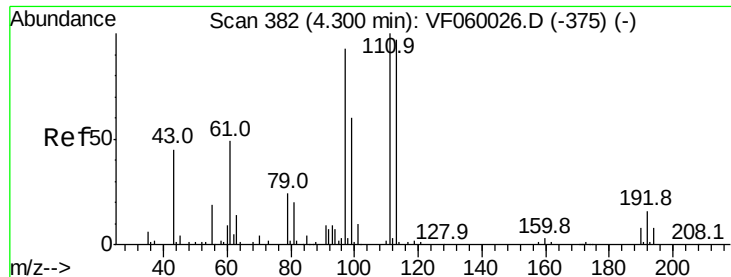
Tot Ion: 65 Resp: 93055
 Ion Ratio Lower Upper
 65 100
 67 47.5 0.0 92.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion:114 Resp: 206773
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 40.4
 88 20.5 0.0 38.6

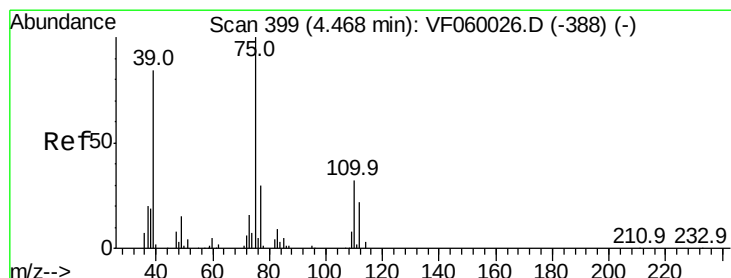
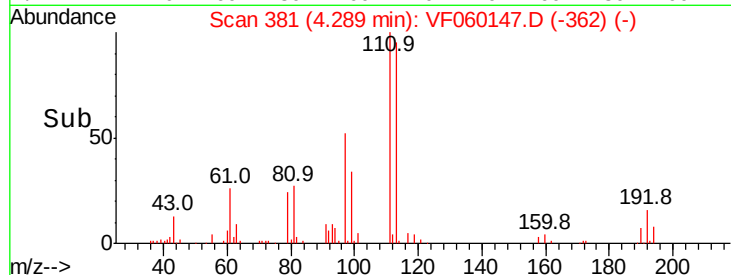
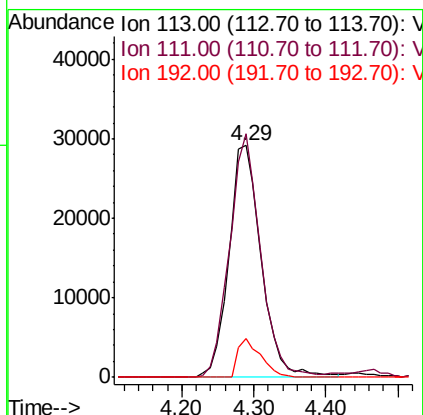
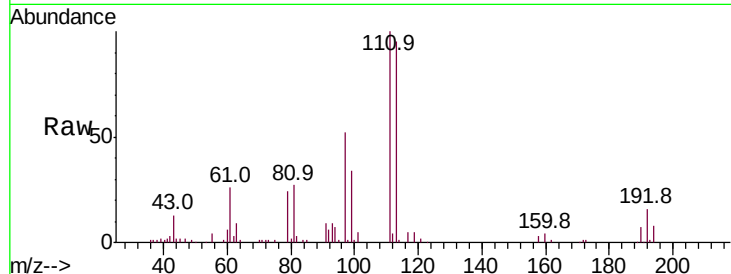




#35
 Dibromofluoromethane
 Concen: 56.032 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

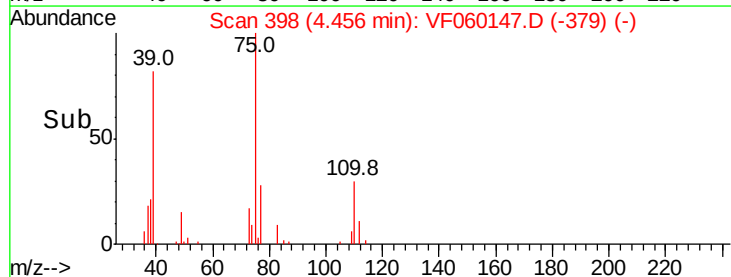
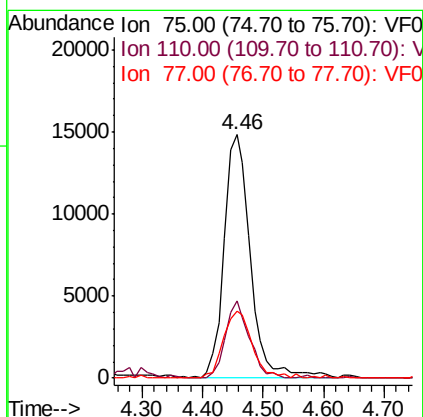
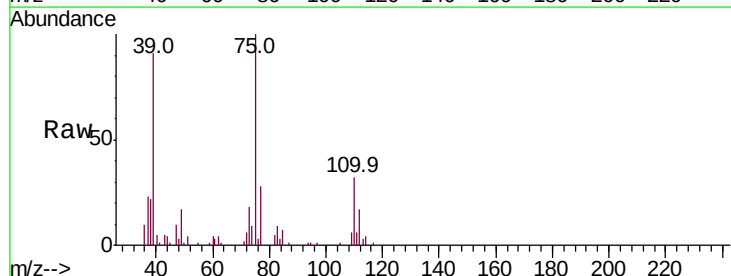
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

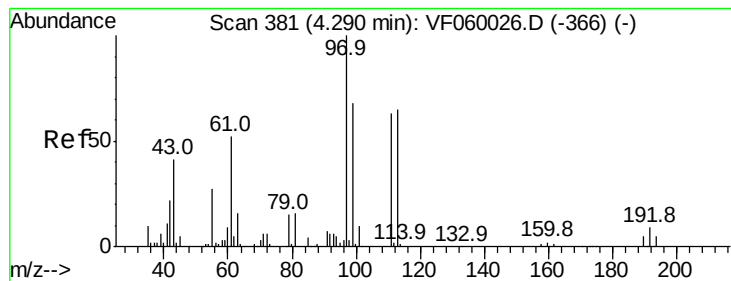
Tot Ion:113 Resp: 90978
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.7 124.1
 192 16.7 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 23.055 ug/l
 RT: 4.46 min Scan# 398
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion: 75 Resp: 44800
 Ion Ratio Lower Upper
 75 100
 110 31.9 16.0 47.9
 77 27.7 24.1 36.1





#37

Ethyl Acetate

Concen: 14.887 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

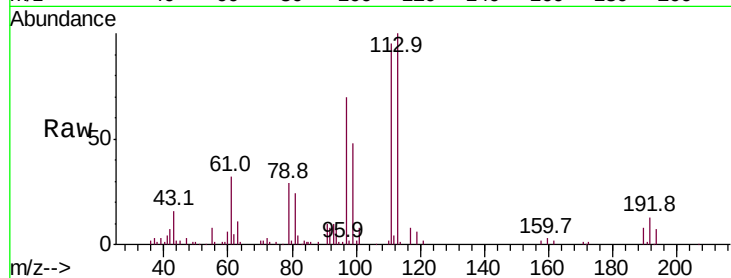
Tot Ion: 43 Resp: 17300

Ion Ratio Lower Upper

43 100

61 194.6 101.5 152.3#

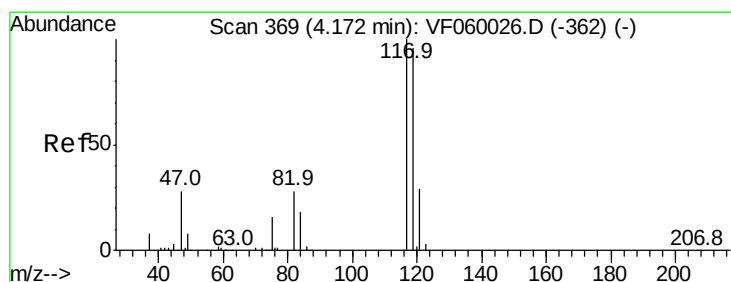
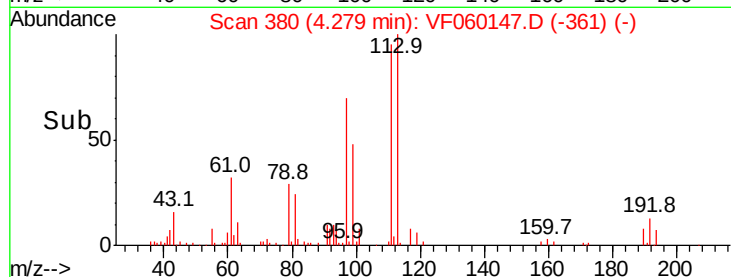
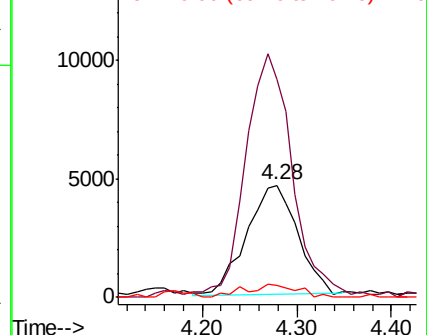
70 10.2 6.4 9.6#



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



#38

Carbon Tetrachloride

Concen: 27.188 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

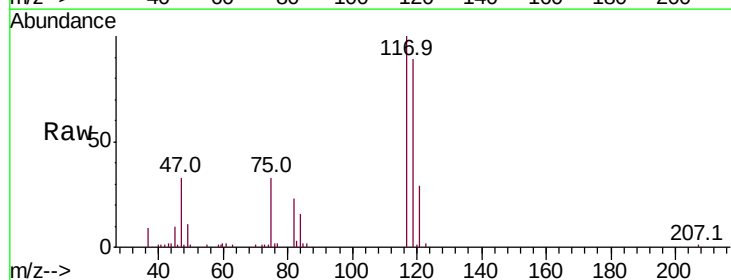
Tgt Ion: 117 Resp: 61176

Ion Ratio Lower Upper

117 100

119 89.2 76.5 114.7

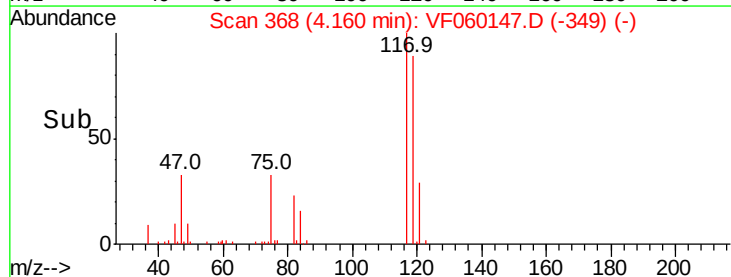
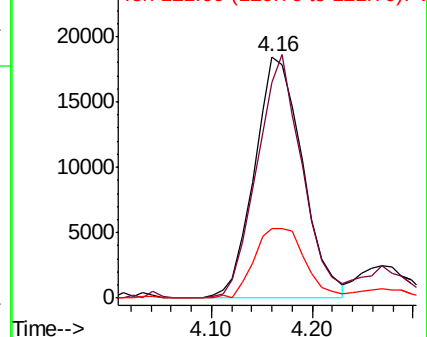
121 28.7 23.0 34.6

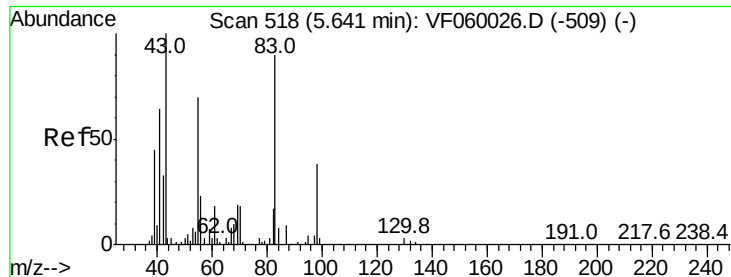


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

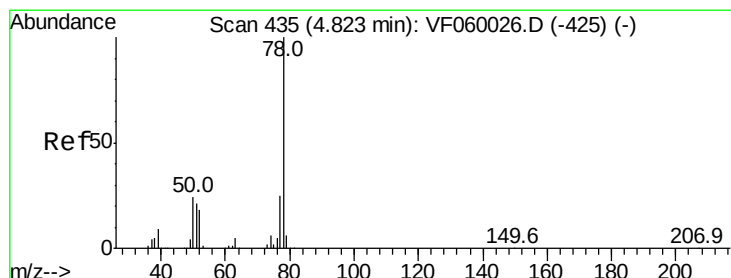
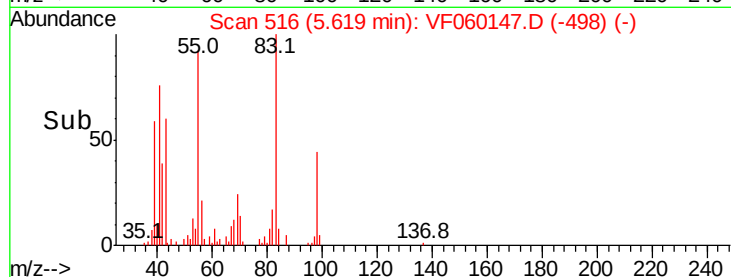
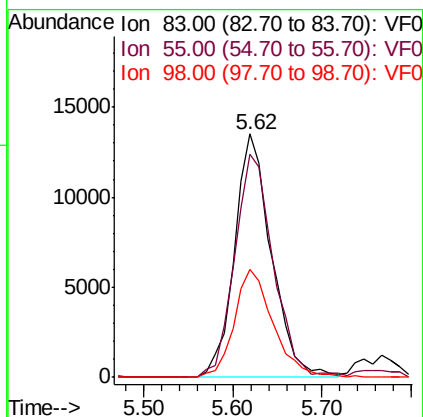
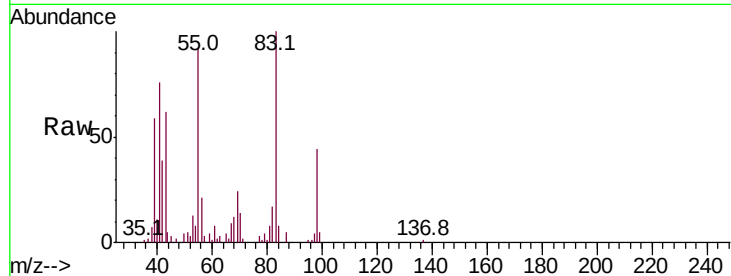




#39
Methylvlcyclohexane
Concen: 21.353 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.02 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

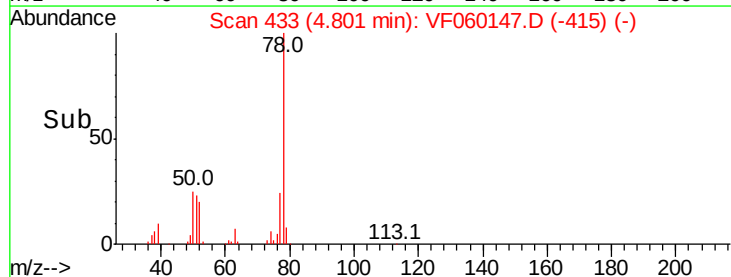
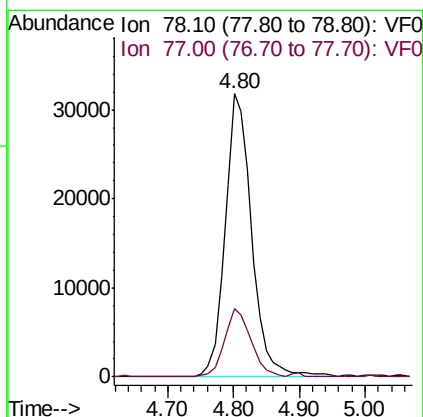
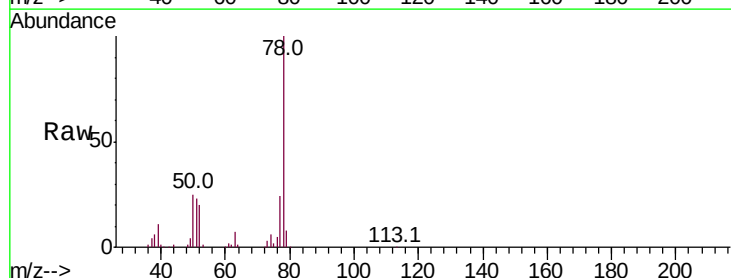
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBS01

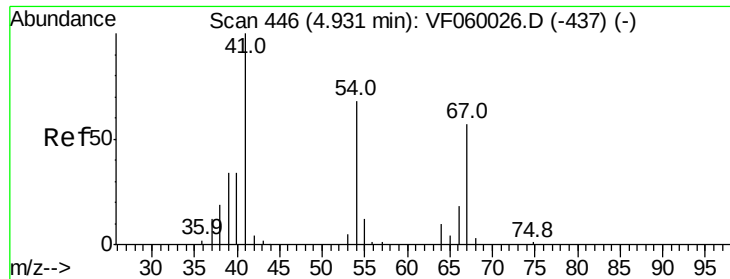
Tot Ion: 83 Resp: 38904
Ion Ratio Lower Upper
83 100
55 91.8 62.7 94.1
98 44.2 33.8 50.8



#40
Benzene
Concen: 21.133 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.02 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion: 78 Resp: 89702
Ion Ratio Lower Upper
78 100
77 24.0 19.8 29.6





#41

Methacrylonitrile

Concen: 16.671 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.02 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

Tot Ion: 41 Resp: 9799

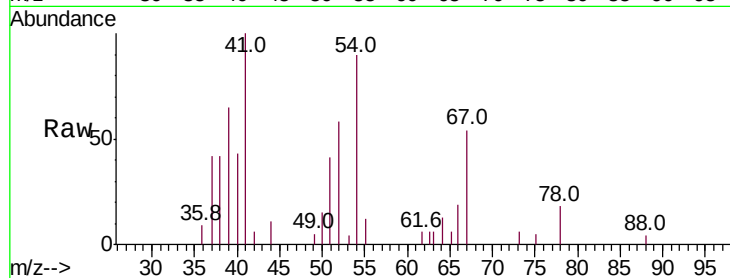
Ion Ratio Lower Upper

41 100

39 65.3 52.9 79.3

67 53.7 45.3 67.9

52 57.7 34.8 52.2#

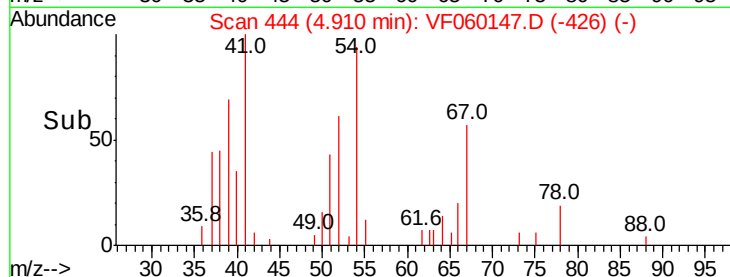


Abundance Ion 41.00 (40.70 to 41.70): VF0

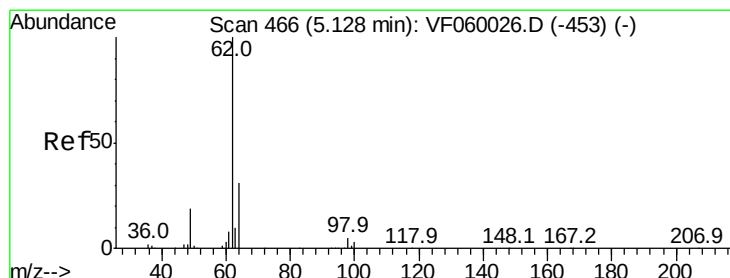
Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->



#42

1,2-Dichloroethane

Concen: 22.304 ug/l

RT: 5.12 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF060147.D

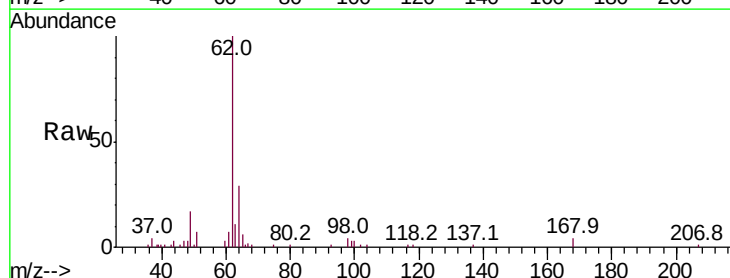
Acq: 28 Aug 2018 14:00

Tgt Ion: 62 Resp: 50764

Ion Ratio Lower Upper

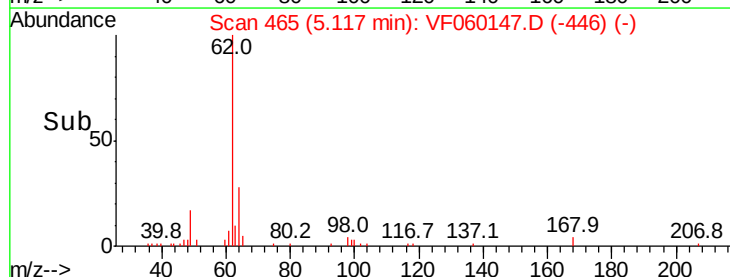
62 100

98 4.0 0.0 11.2

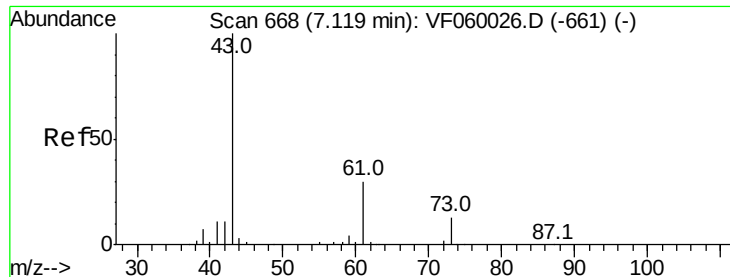


Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->



#43

Isopropyl Acetate

Concen: 15.099 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

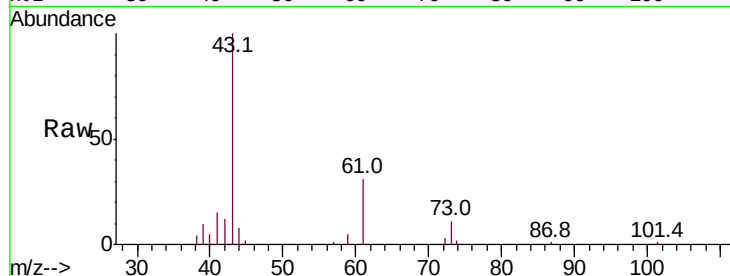
Tot Ion: 43 Resp: 22085

Ion Ratio Lower Upper

43 100

61 31.3 23.8 35.6

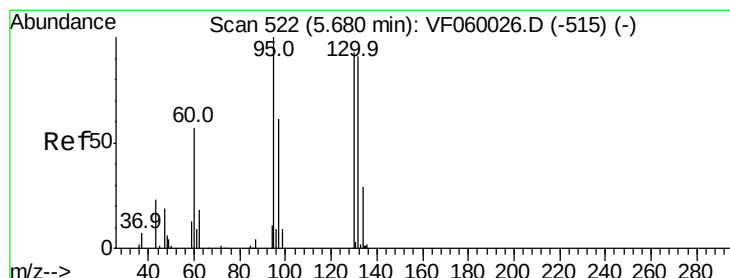
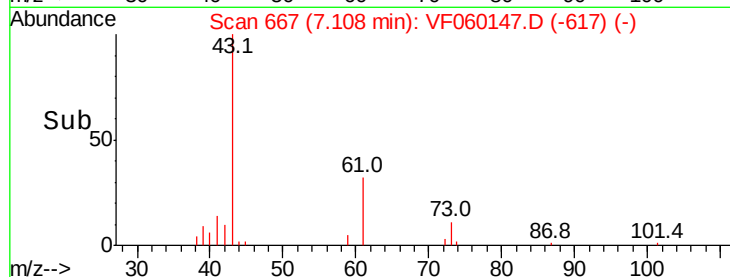
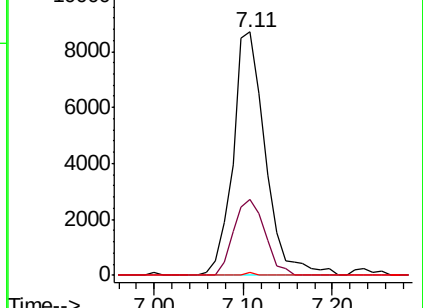
87 1.3 0.2 0.4#



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



#44

Trichloroethene

Concen: 22.208 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.01 min

Lab File: VF060147.D

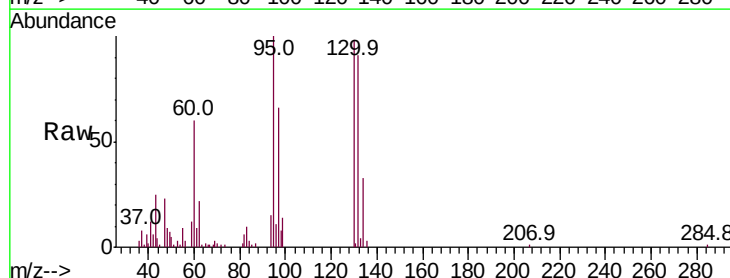
Acq: 28 Aug 2018 14:00

Tgt Ion:130 Resp: 31163

Ion Ratio Lower Upper

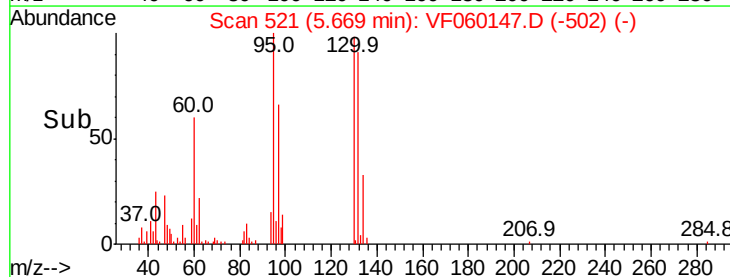
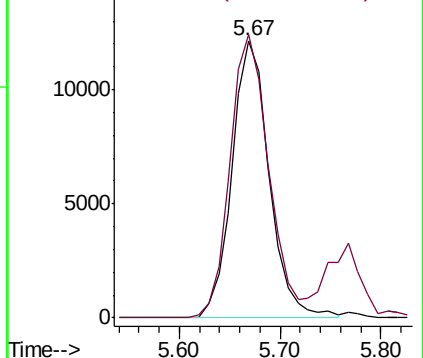
130 100

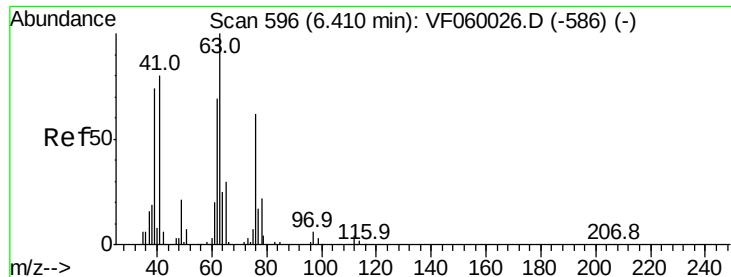
95 102.0 0.0 215.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 20.409 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

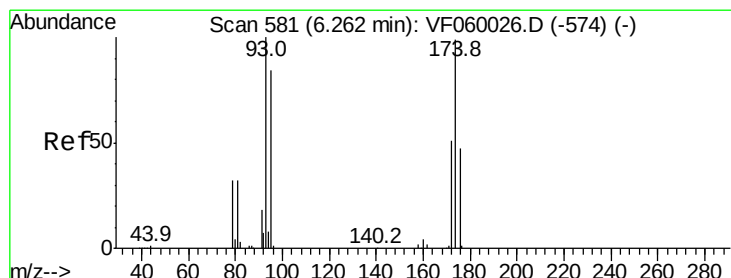
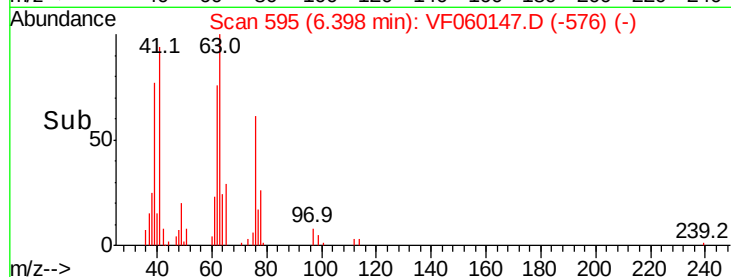
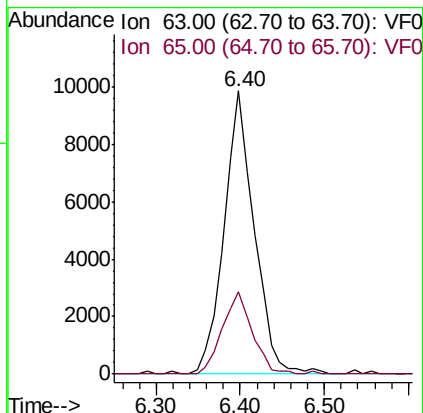
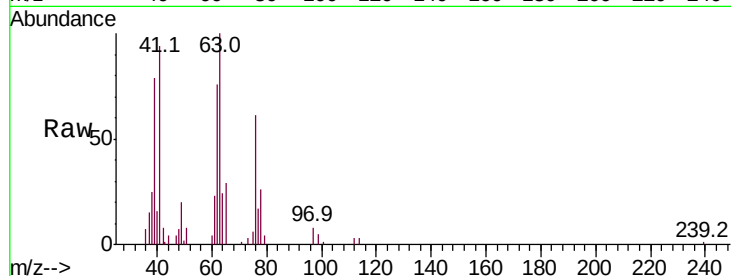
VF0828SBS01

Tot Ion: 63 Resp: 24504

Ion Ratio Lower Upper

63 100

65 29.2 23.8 35.6



#46

Dibromomethane

Concen: 19.155 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

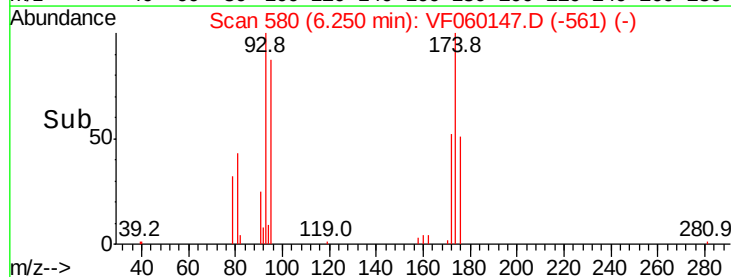
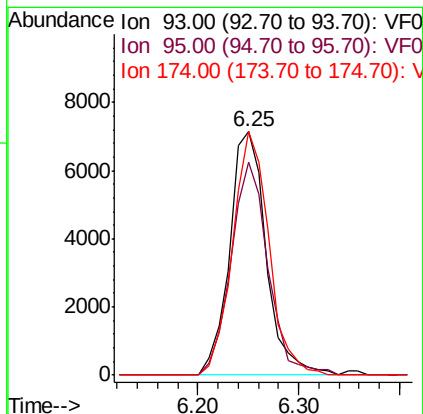
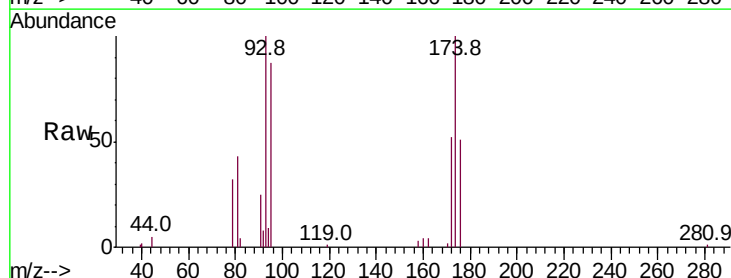
Tgt Ion: 93 Resp: 17997

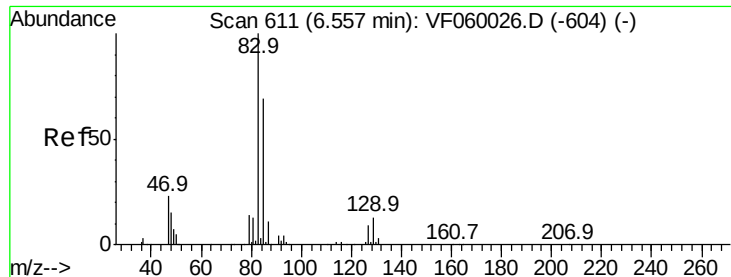
Ion Ratio Lower Upper

93 100

95 87.5 67.1 100.7

174 99.8 79.0 118.4





#47

Bromodichloromethane

Concen: 22.938 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

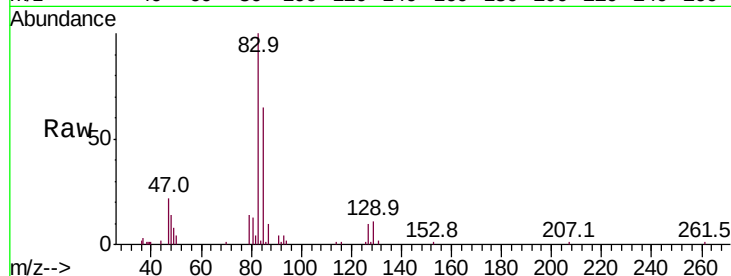
Tot Ion: 83 Resp: 52054

Ion Ratio Lower Upper

83 100

85 64.9 55.2 82.8

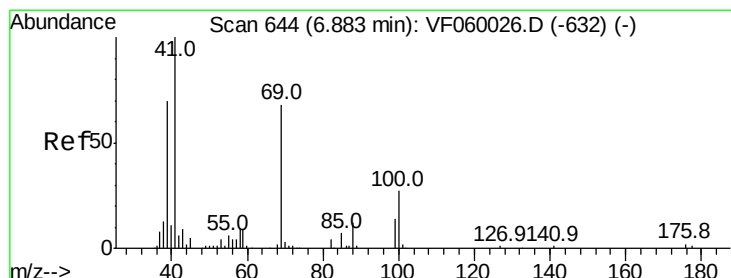
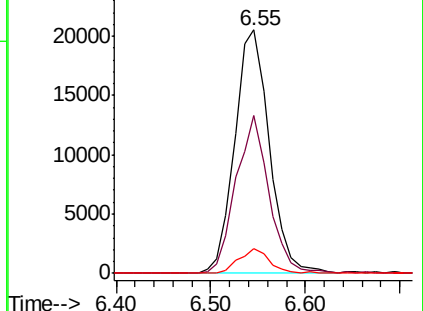
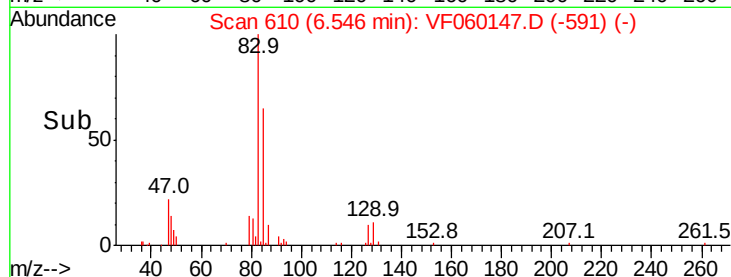
127 11.2 7.3 10.9#



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: 14.435 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.02 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

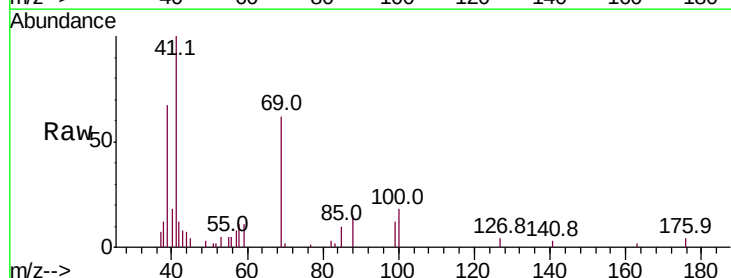
Tgt Ion: 41 Resp: 13971

Ion Ratio Lower Upper

41 100

69 61.7 54.6 81.8

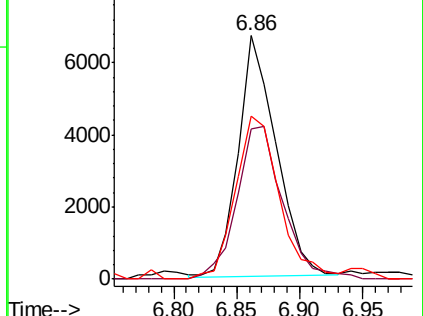
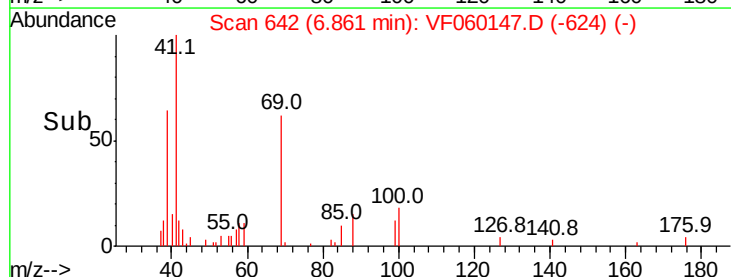
39 67.2 56.5 84.7

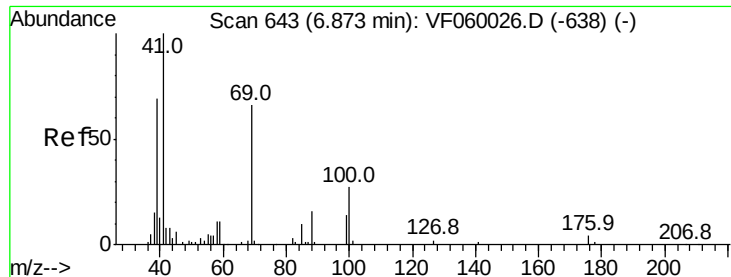


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 263.797 ug/l

RT: 6.86 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

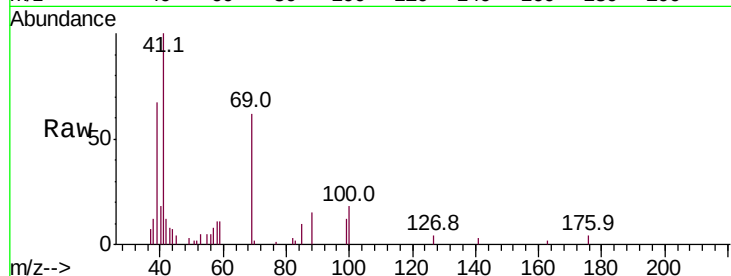
Tot Ion: 88 Resp: 2451

Ion Ratio Lower Upper

88 100

43 53.2 46.5 69.7

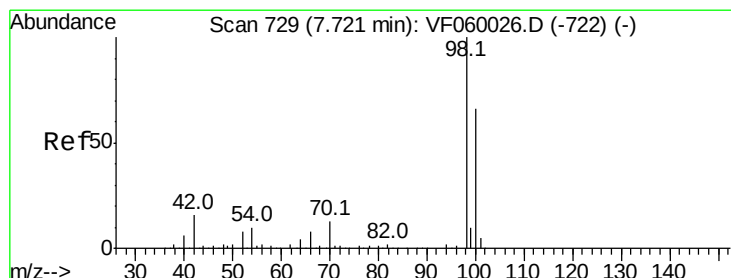
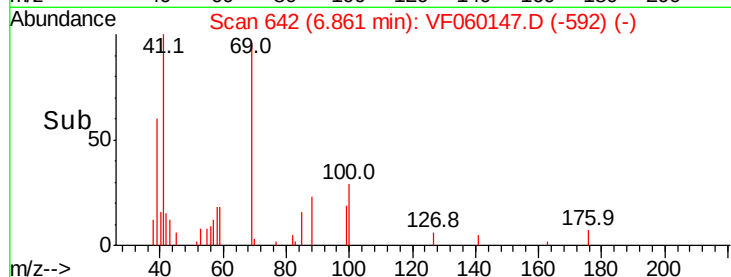
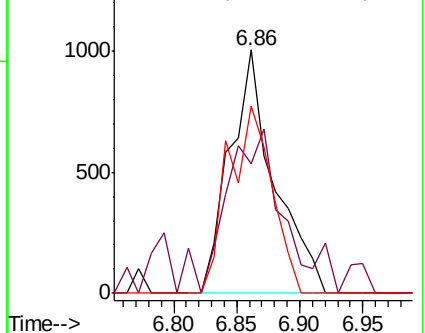
58 76.7 54.8 82.2



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 49.788 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF060147.D

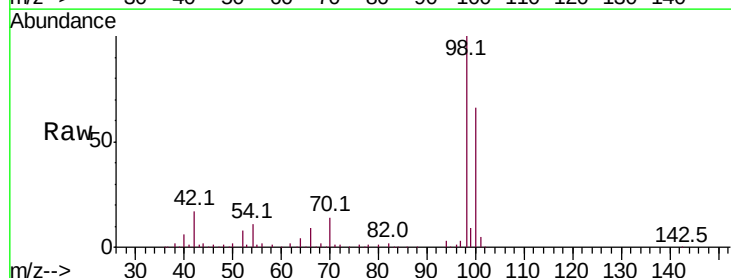
Acq: 28 Aug 2018 14:00

Tgt Ion: 98 Resp: 229584

Ion Ratio Lower Upper

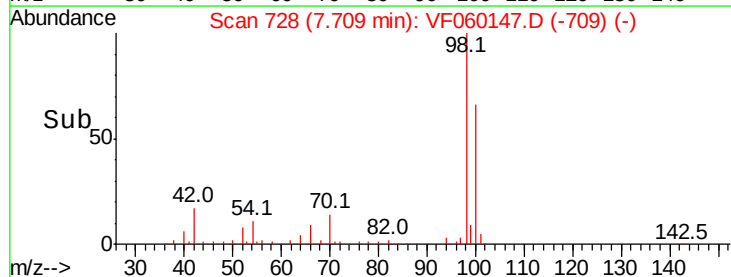
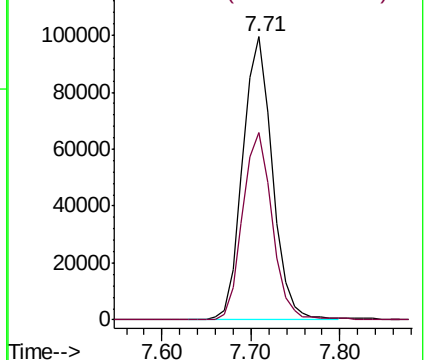
98 100

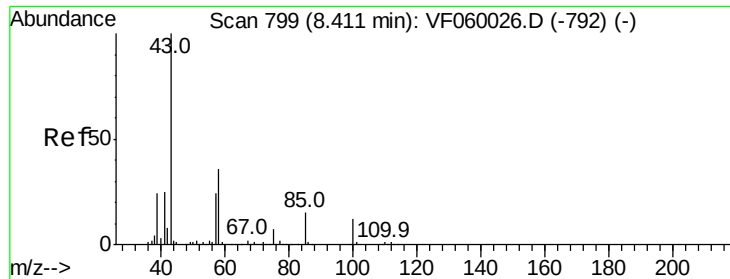
100 66.2 53.2 79.8



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: 86.466 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

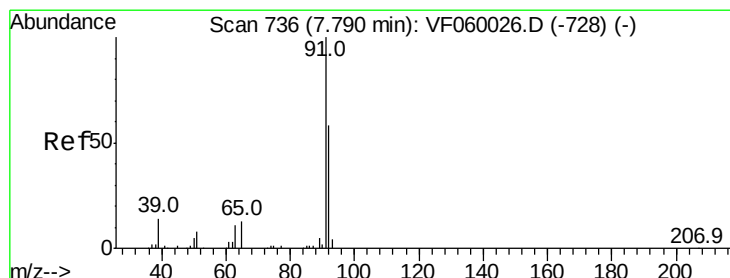
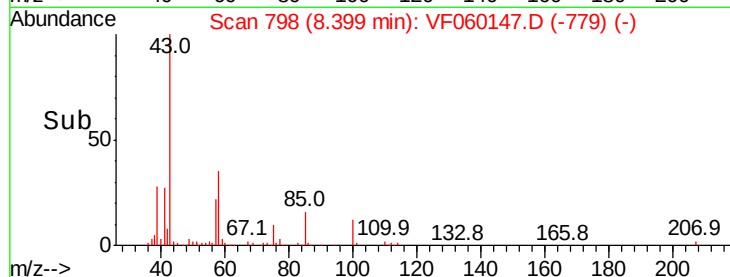
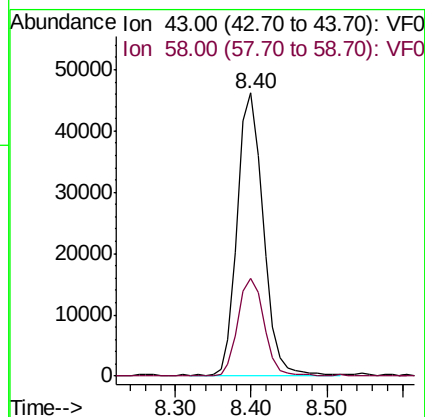
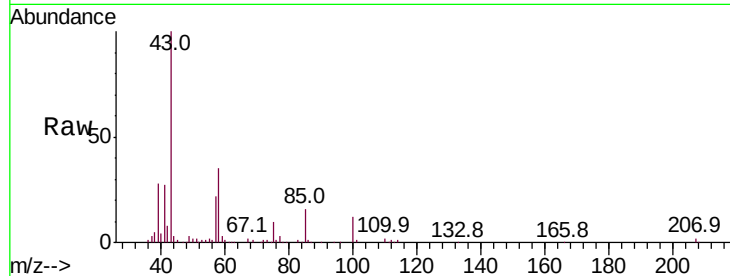
VF0828SBSD01

Tot Ion: 43 Resp: 109212

Ion Ratio Lower Upper

43 100

58 34.6 28.6 42.8



#52

Toluene

Concen: 24.325 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF060147.D

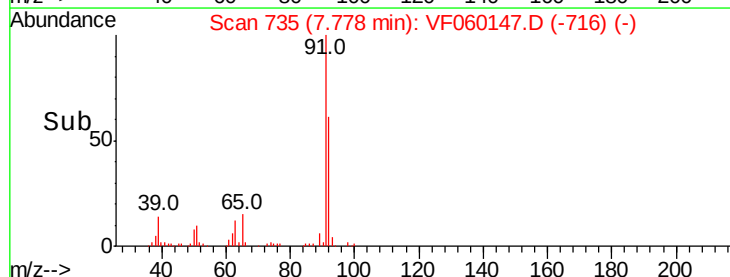
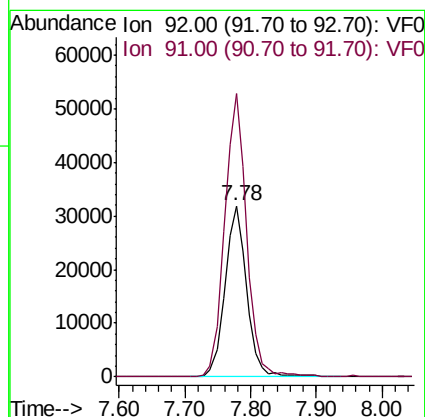
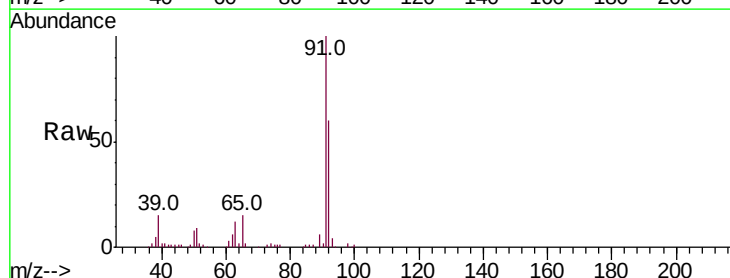
Acq: 28 Aug 2018 14:00

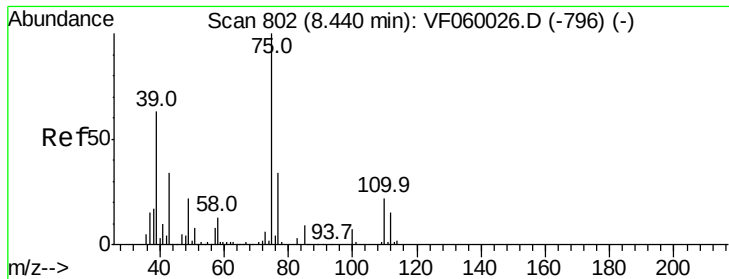
Tgt Ion: 92 Resp: 73302

Ion Ratio Lower Upper

92 100

91 165.8 137.7 206.5





#53

t-1,3-Dichloropropene

Concen: 20.733 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

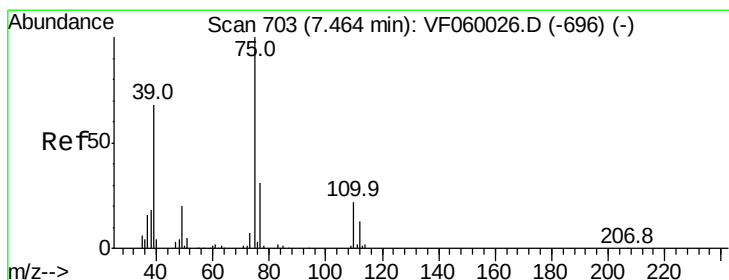
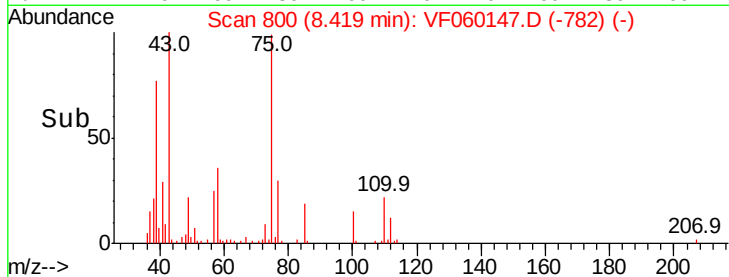
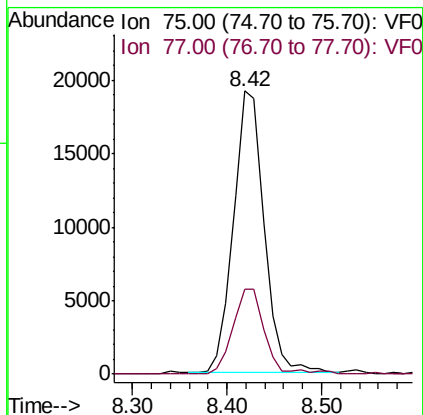
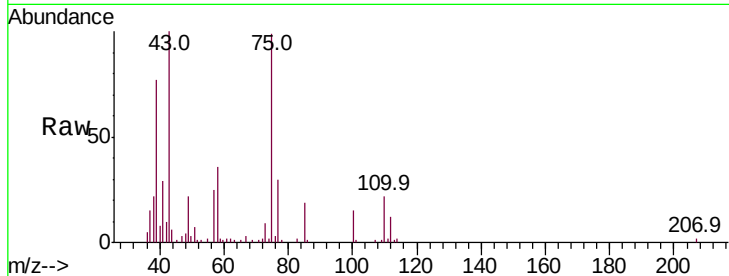
VF0828SBSD01

Tot Ion: 75 Resp: 42667

Ion Ratio Lower Upper

75 100

77 30.1 27.4 41.2



#54

cis-1,3-Dichloropropene

Concen: 20.115 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

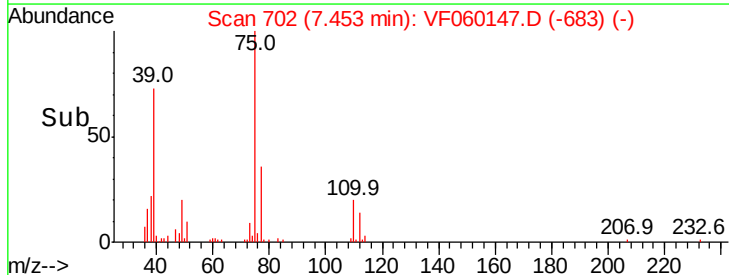
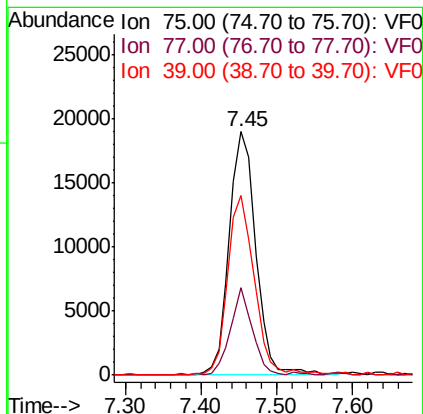
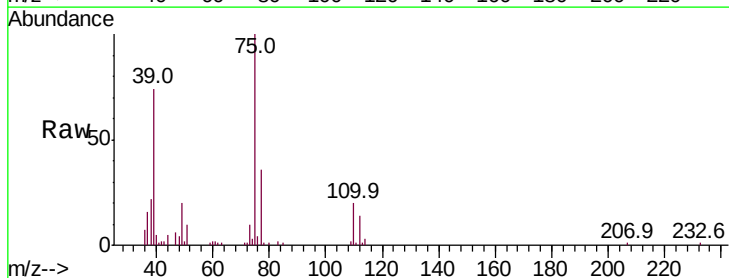
Tgt Ion: 75 Resp: 46198

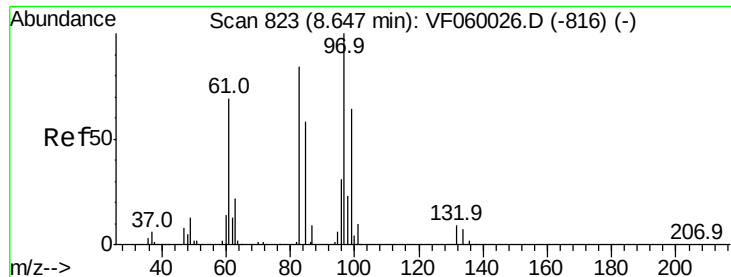
Ion Ratio Lower Upper

75 100

77 36.0 24.6 37.0

39 73.7 54.6 81.8





#55

1,1,2-Trichloroethane

Concen: 19.101 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

Tot Ion: 97 Resp: 21877

Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.4	101.2
85	49.2	46.2	69.2
99	60.7	51.1	76.7

97 100

83 84.2 67.4 101.2

85 49.2 46.2 69.2

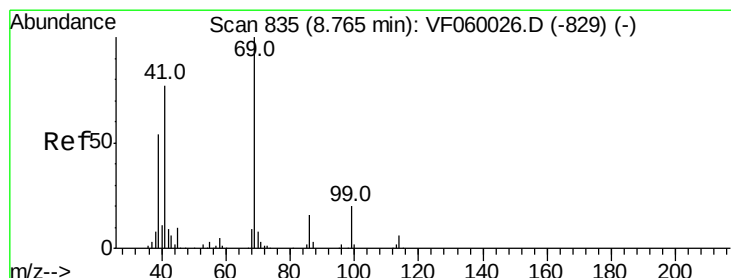
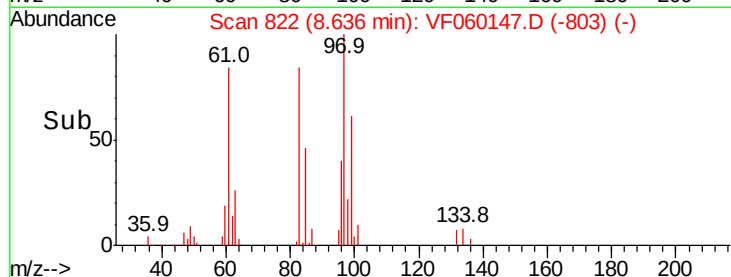
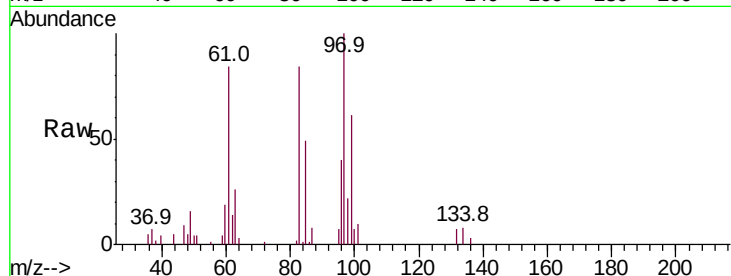
99 60.7 51.1 76.7



Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 16.722 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

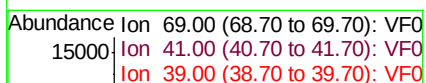
Tgt Ion: 69 Resp: 23182

Ion	Ratio	Lower	Upper
69	100		
41	82.9	61.6	92.4
39	62.0	43.9	65.9

69 100

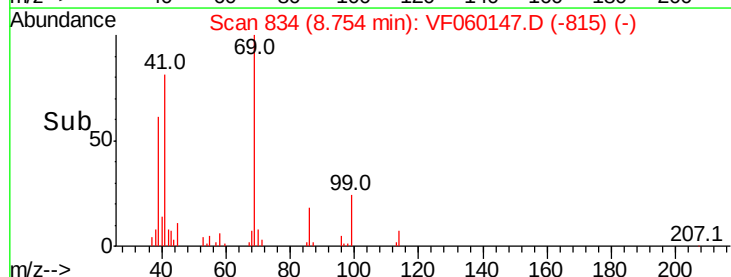
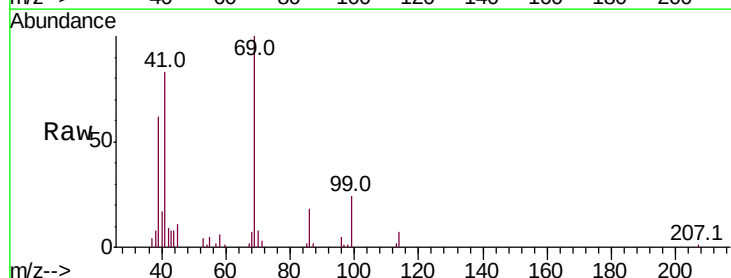
41 82.9 61.6 92.4

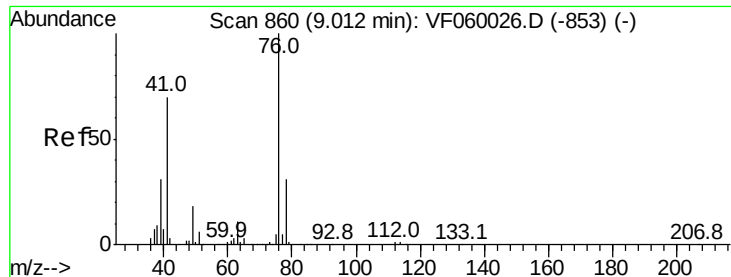
39 62.0 43.9 65.9



Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

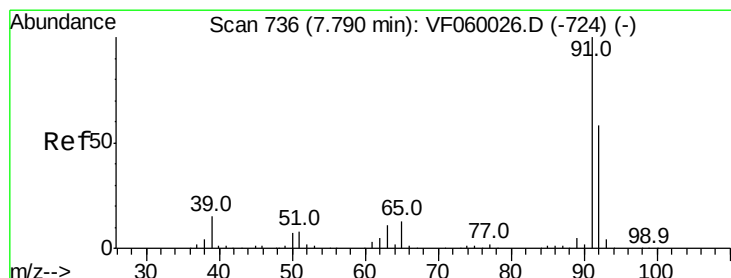
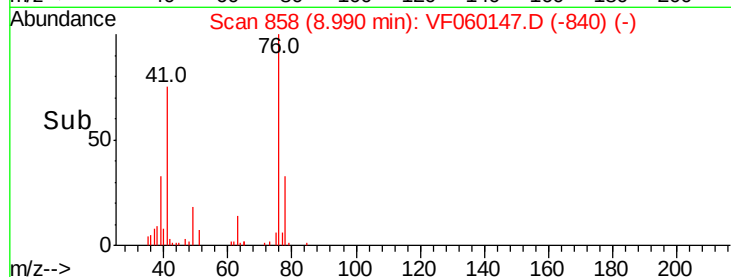
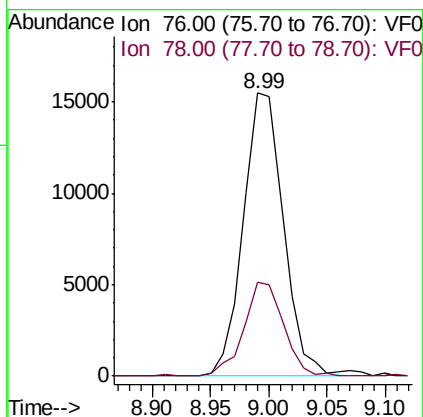
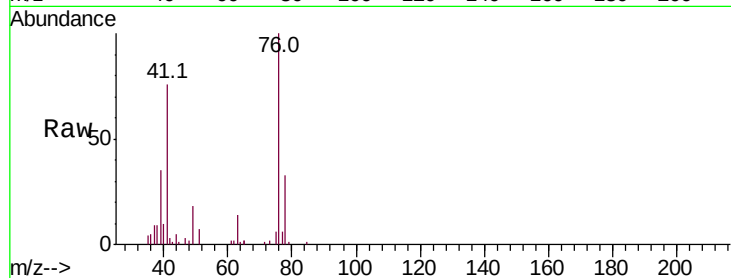




#57
 1,3-Dichloropropane
 Concen: 18.429 ug/l
 RT: 8.99 min Scan# 858
 Delta R.T. -0.02 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

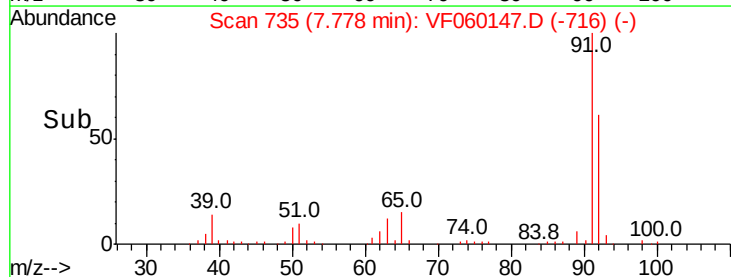
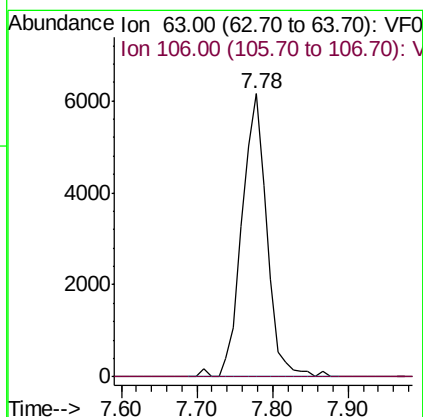
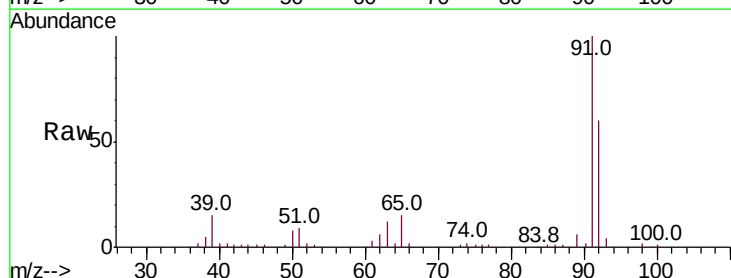
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBSD01

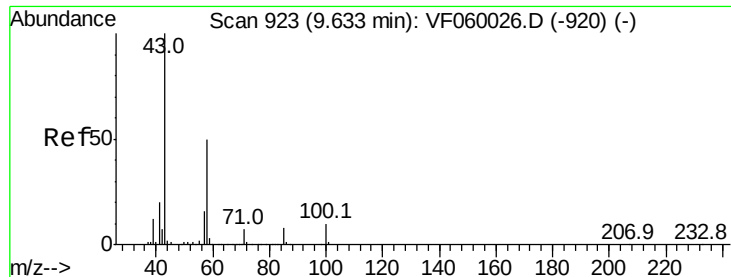
Tot Ion: 76 Resp: 37099
 Ion Ratio Lower Upper
 76 100
 78 33.0 25.2 37.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 127.632 ug/l
 RT: 7.78 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion: 63 Resp: 14045
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0

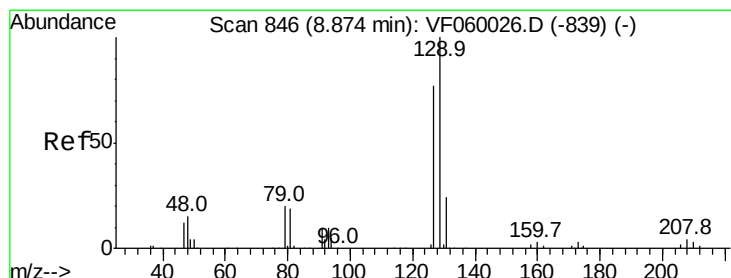
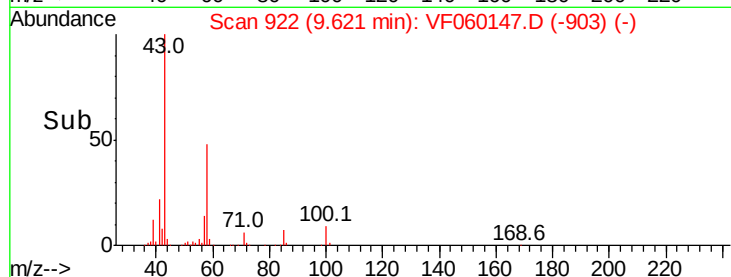
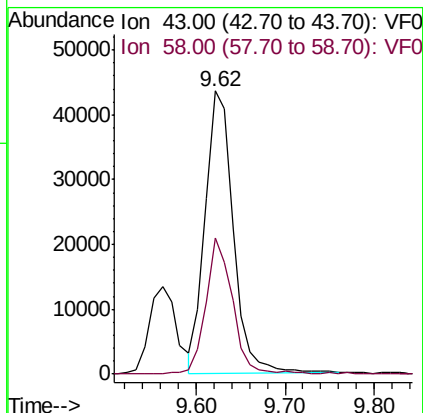
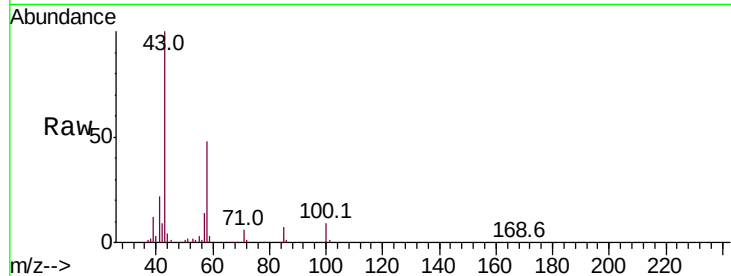




#59
2-Hexanone
Concen: 93.168 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

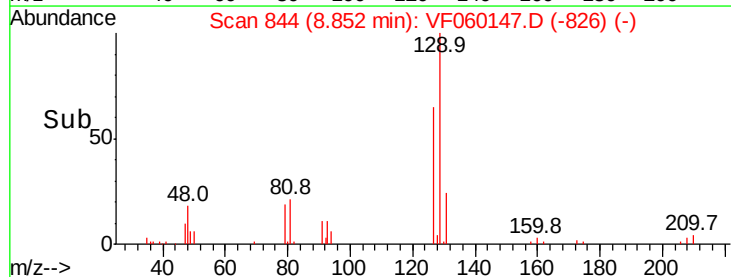
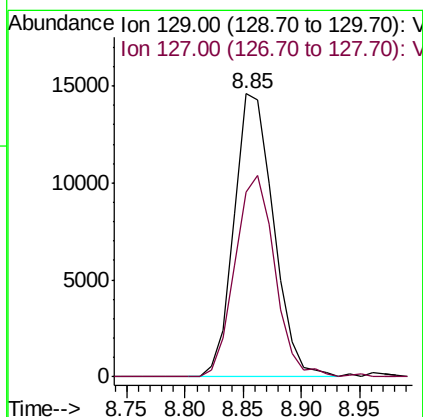
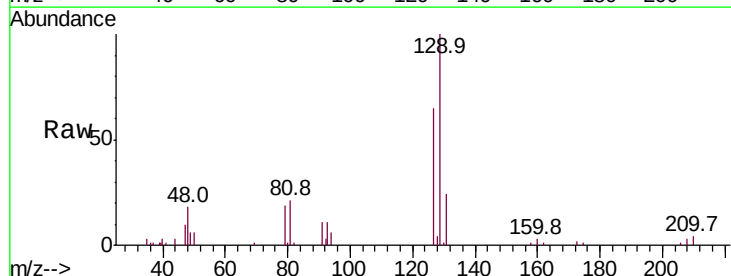
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBSD01

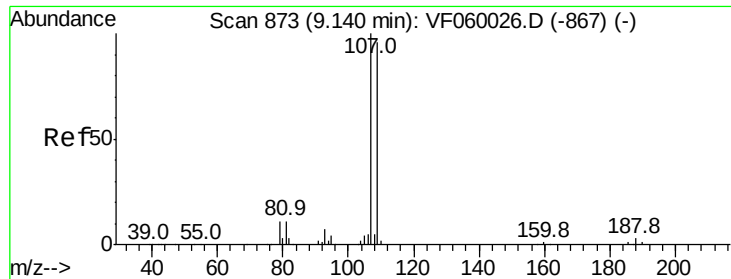
Tot Ion: 43 Resp: 95243
Ion Ratio Lower Upper
43 100
58 47.9 23.4 70.2



#60
Dibromochloromethane
Concen: 20.308 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.02 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion: 129 Resp: 34335
Ion Ratio Lower Upper
129 100
127 69.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 16.548 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

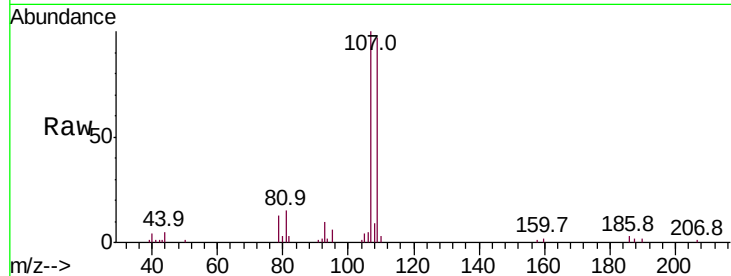
VF0828SBSD01

Tot Ion:107 Resp: 22259

Ion Ratio Lower Upper

107 100

109 97.3 76.5 114.7

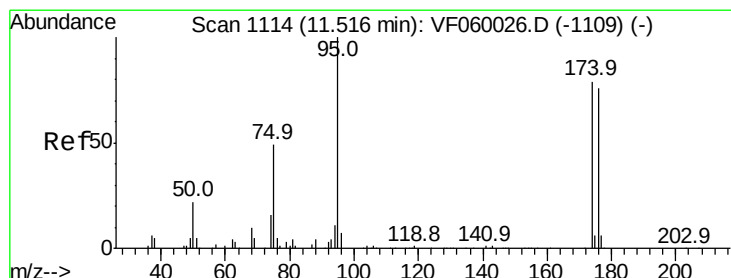
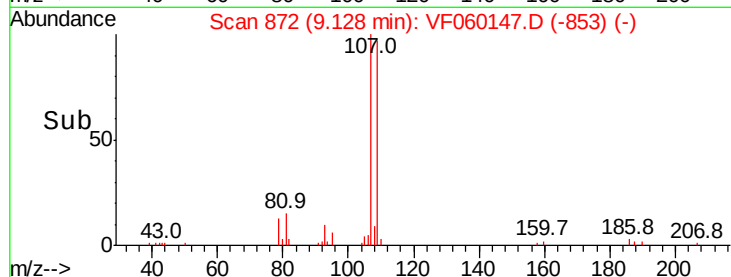


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.13

Time-->



#62

4-Bromofluorobenzene

Concen: 52.559 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

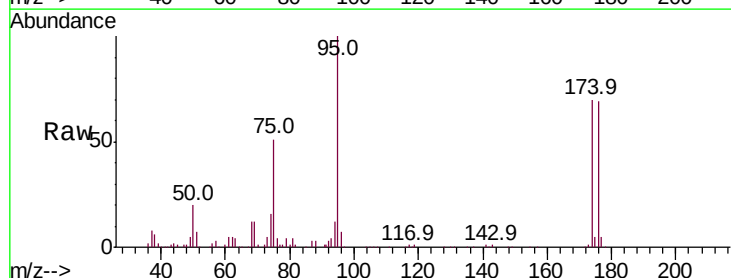
Tgt Ion: 95 Resp: 128213

Ion Ratio Lower Upper

95 100

174 70.3 0.0 158.4

176 69.3 0.0 153.0



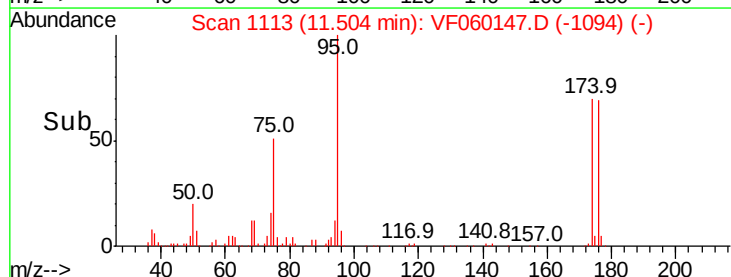
Abundance Ion 95.00 (94.70 to 95.70): VF0

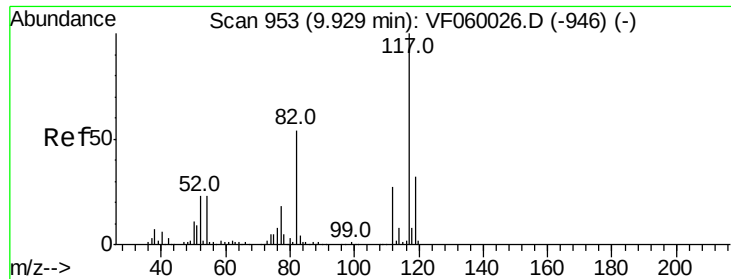
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.50

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

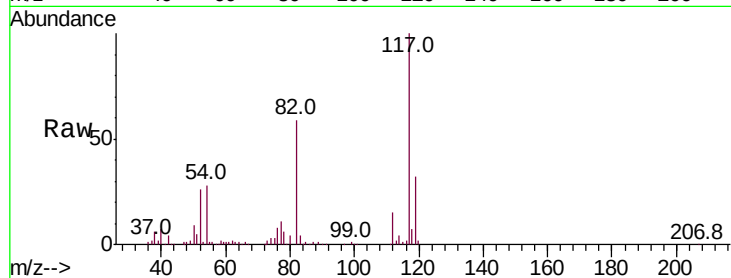
Tot Ion:117 Resp: 229783

Ion Ratio Lower Upper

117 100

82 58.9 43.6 65.4

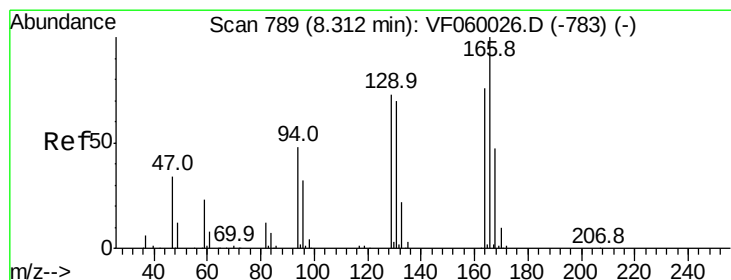
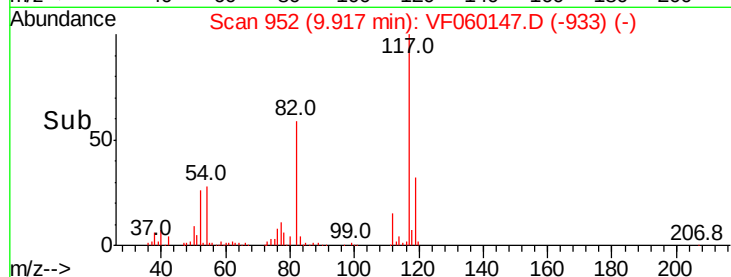
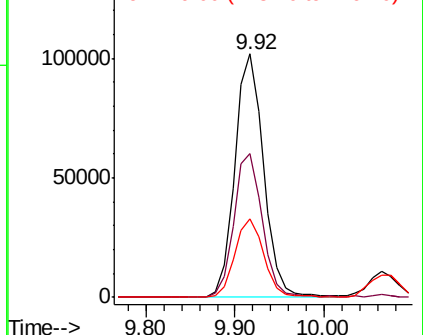
119 32.3 25.6 38.4



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



#64

Tetrachloroethene

Concen: 22.630 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Tgt Ion:164 Resp: 35030

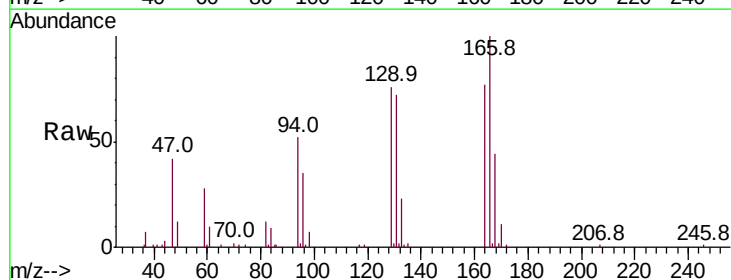
Ion Ratio Lower Upper

164 100

166 129.5 104.7 157.1

129 98.4 77.0 115.4

131 93.3 72.9 109.3

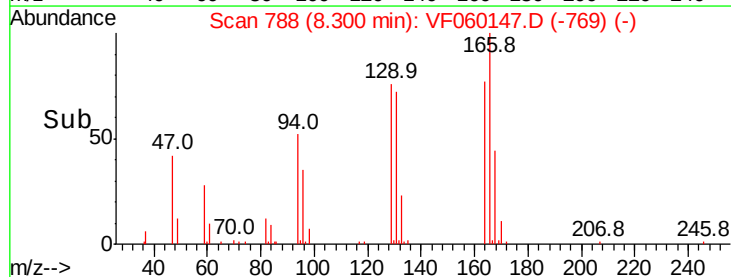
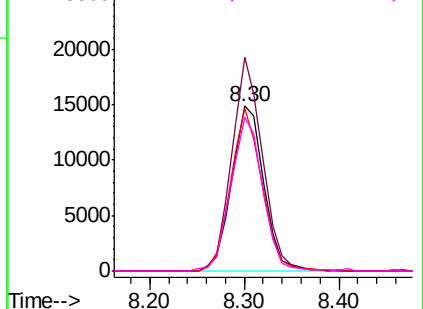


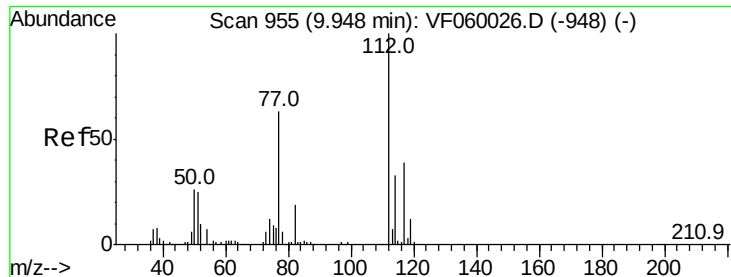
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

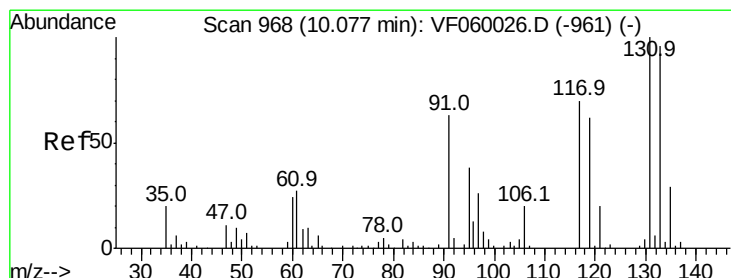
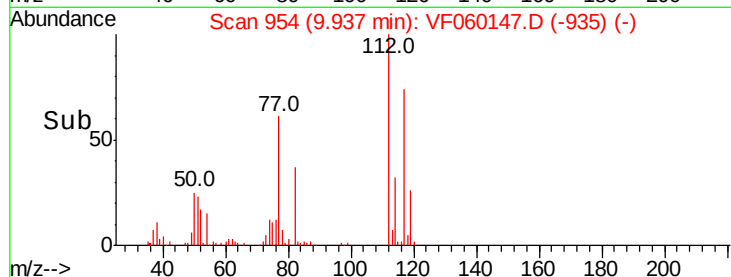
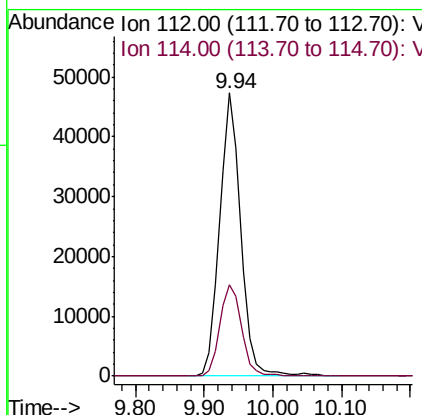
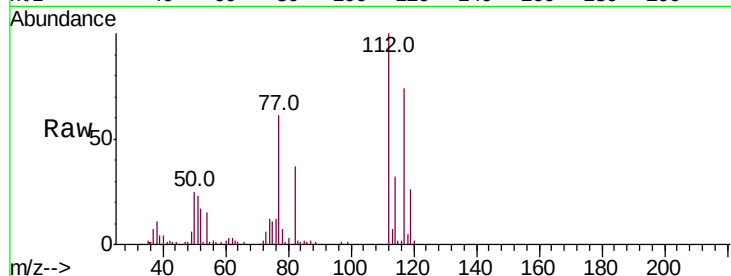




#65
Chlorobenzene
Concen: 23.189 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

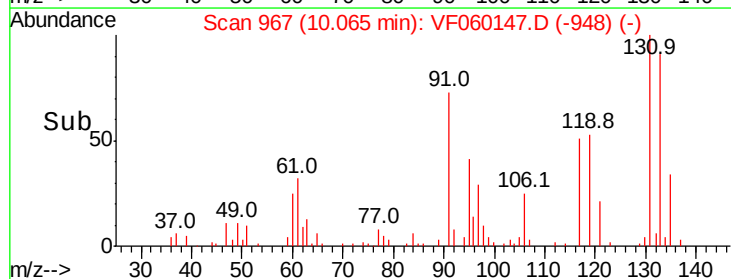
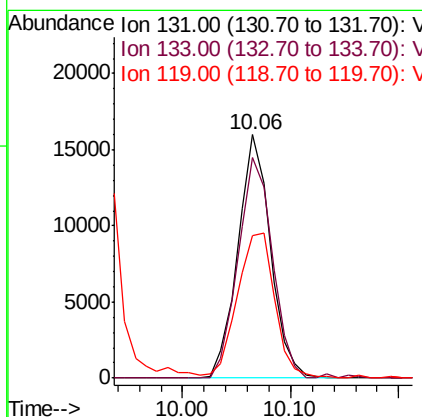
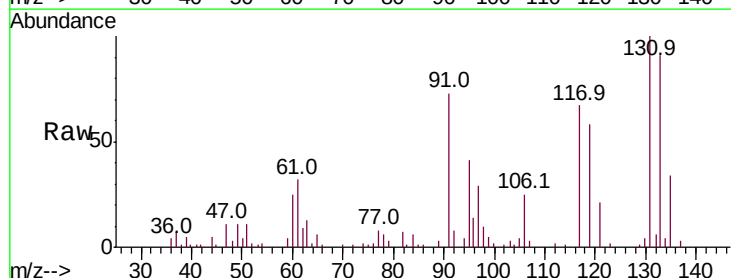
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBSD01

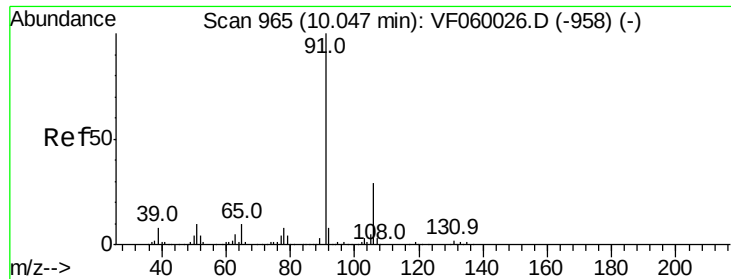
Tot Ion:112 Resp: 100619
Ion Ratio Lower Upper
112 100
114 32.4 26.2 39.2



#66
1,1,1,2-Tetrachloroethane
Concen: 20.391 ug/l
RT: 10.06 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion:131 Resp: 33557
Ion Ratio Lower Upper
131 100
133 90.7 48.2 144.6
119 58.3 31.4 94.2





#67

Ethyl Benzene

Concen: 23.938 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

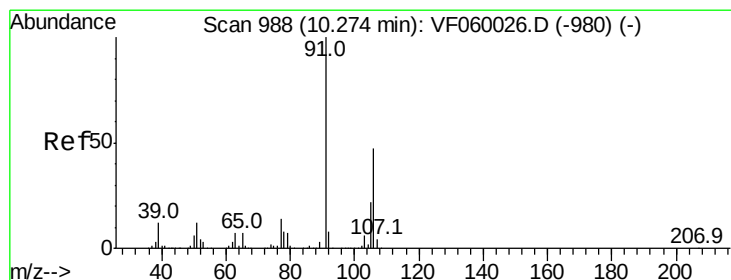
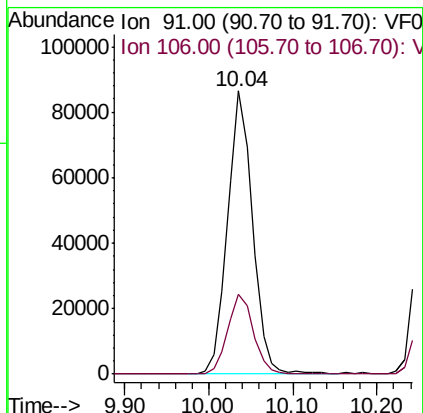
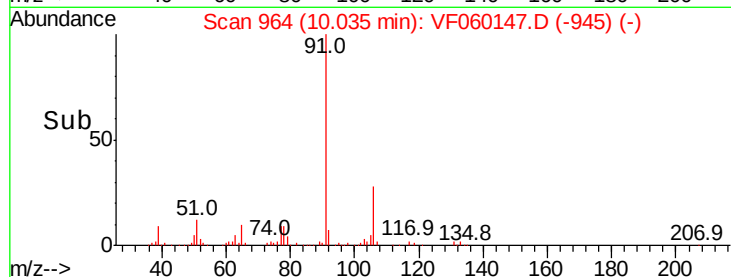
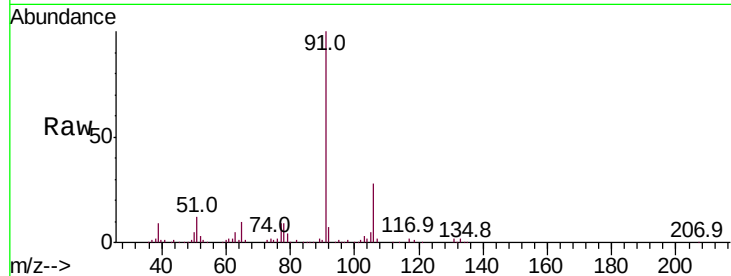
VF0828SBSD01

Tot Ion: 91 Resp: 179221

Ion Ratio Lower Upper

91 100

106 28.2 23.6 35.4



#68

m/p-Xylenes

Concen: 45.029 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF060147.D

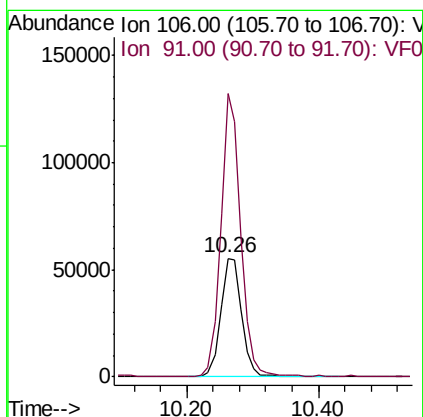
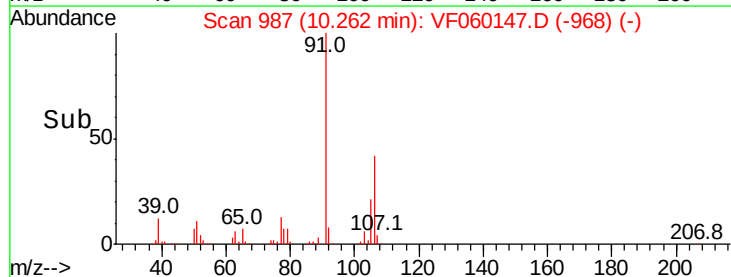
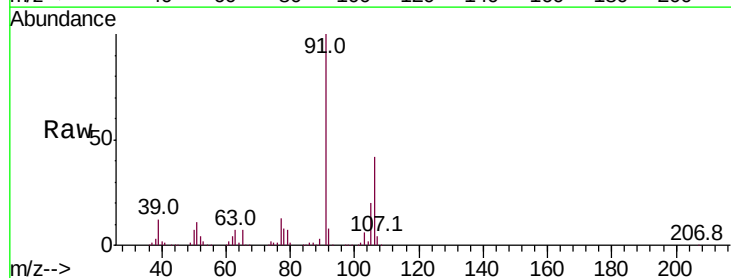
Acq: 28 Aug 2018 14:00

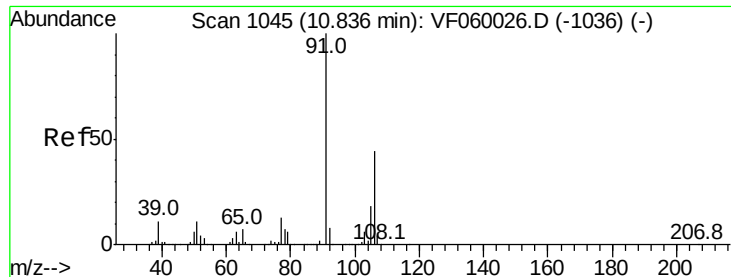
Tgt Ion: 106 Resp: 123023

Ion Ratio Lower Upper

106 100

91 239.2 171.8 257.8

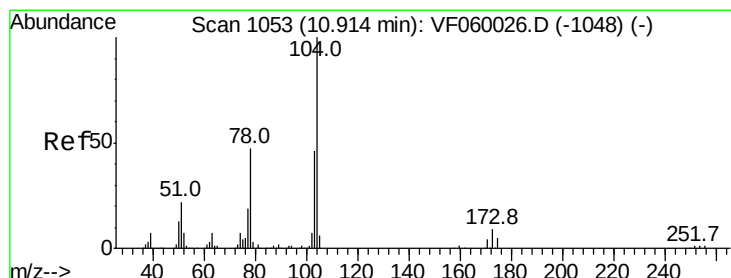
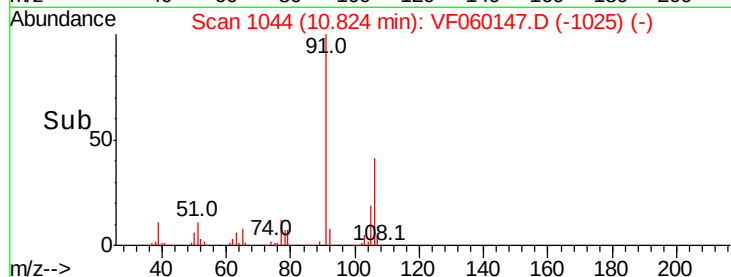
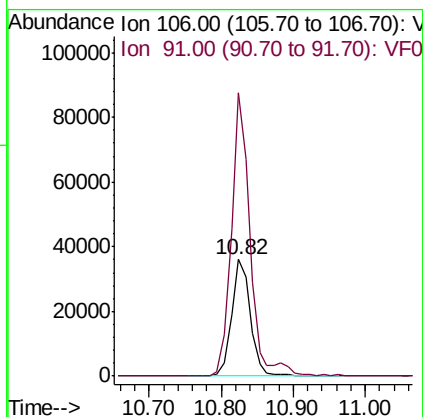
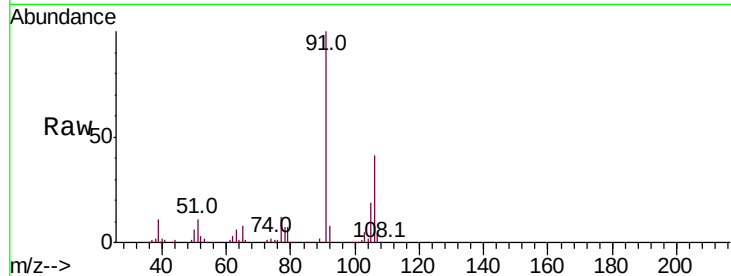




#69
o-Xylene
Concen: 22.531 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

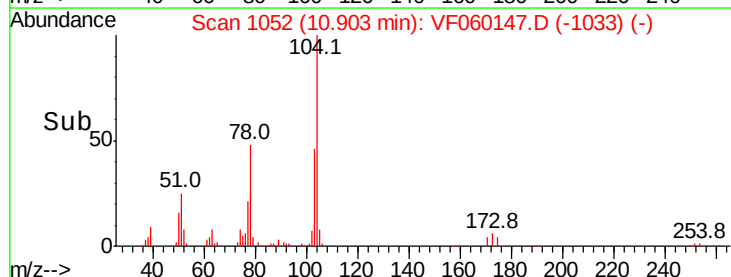
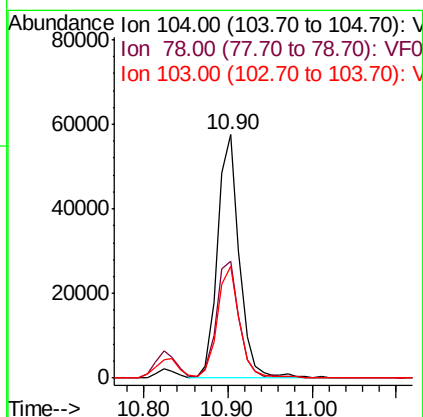
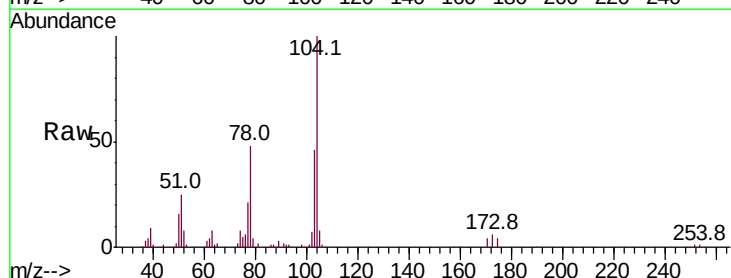
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBSD01

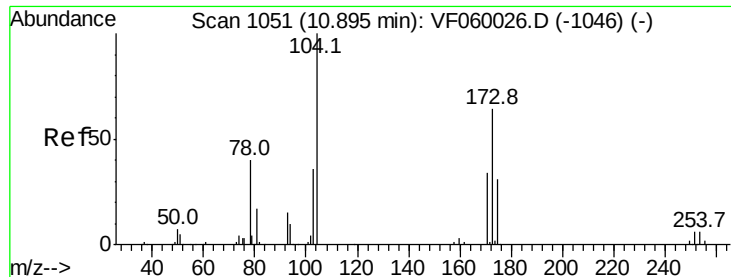
Tot Ion:106 Resp: 66089
Ion Ratio Lower Upper
106 100
91 242.6 112.5 337.5



#70
Styrene
Concen: 22.967 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion:104 Resp: 103355
Ion Ratio Lower Upper
104 100
78 48.2 38.0 57.0
103 46.0 37.6 56.4





#71

Bromoform

Concen: 17.686 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

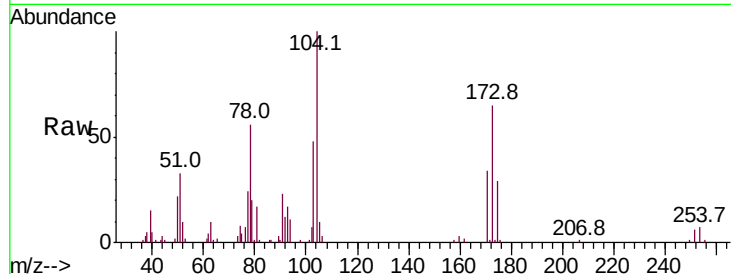
Tot Ion:173 Resp: 20307

Ion Ratio Lower Upper

173 100

175 46.7 24.7 74.1

254 0.0 0.0 0.0

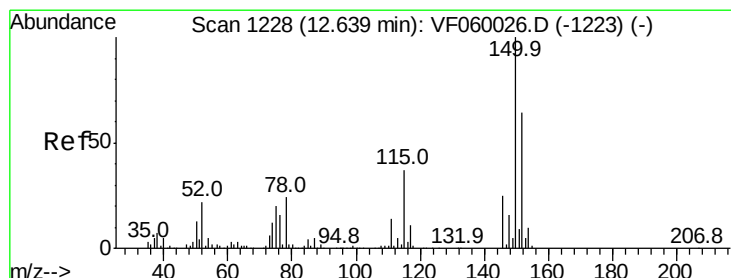
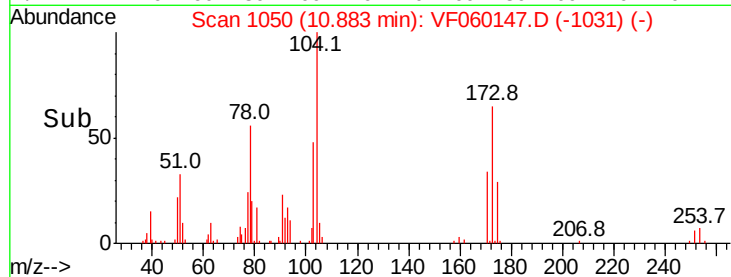
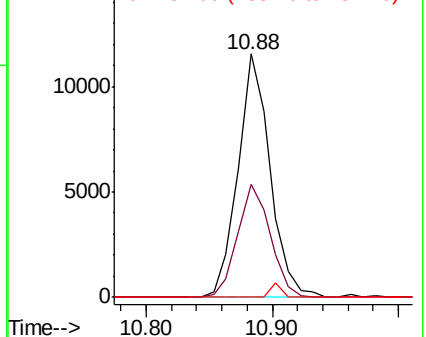


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

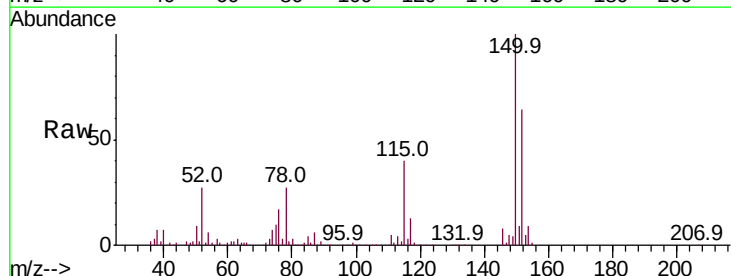
Tgt Ion:152 Resp: 147125

Ion Ratio Lower Upper

152 100

115 61.8 28.6 85.9

150 156.3 0.0 312.0

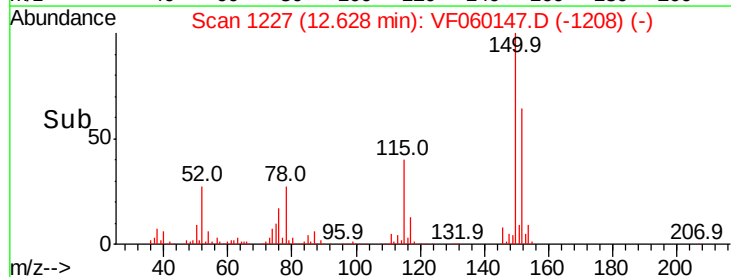
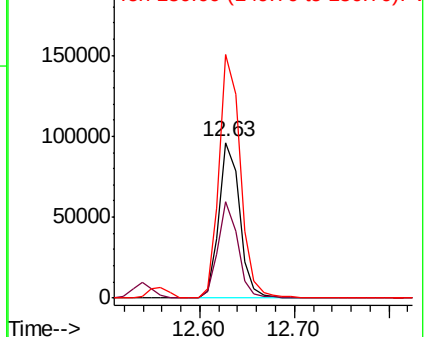


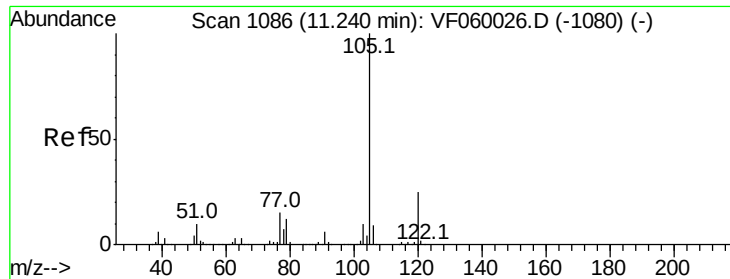
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.990 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

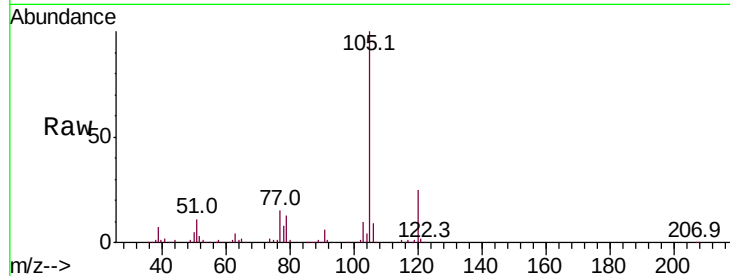
VF0828SBS01

Tot Ion:105 Resp: 212456

Ion Ratio Lower Upper

105 100

120 25.4 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

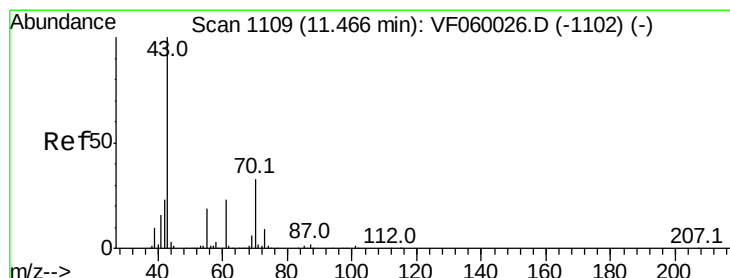
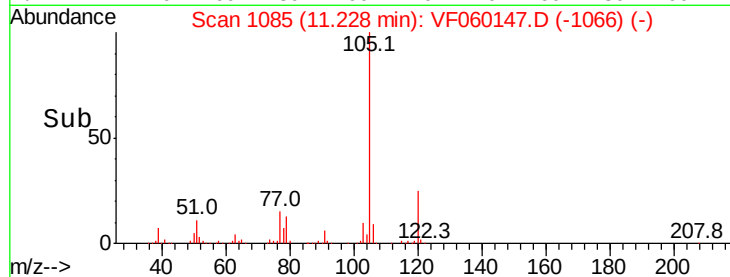
100000

50000

0

Time-->

11.10 11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 15.886 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Tgt Ion: 43 Resp: 43730

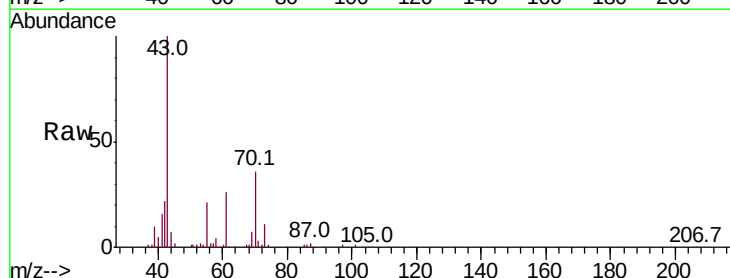
Ion Ratio Lower Upper

43 100

70 35.6 26.4 39.6

55 20.9 15.0 22.4

61 26.3 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

40000

30000

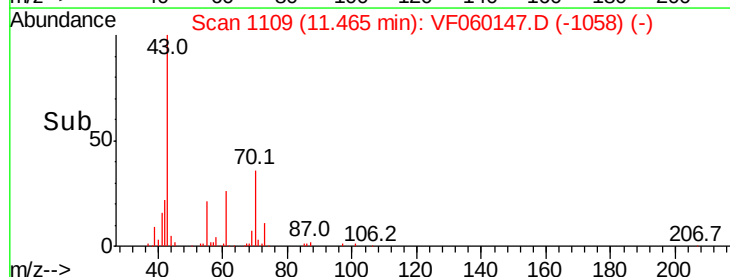
20000

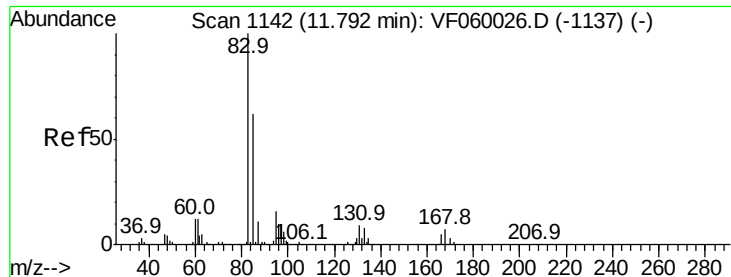
10000

0

Time-->

11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 16.285 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

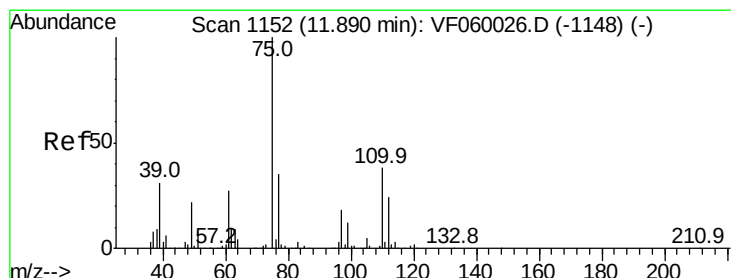
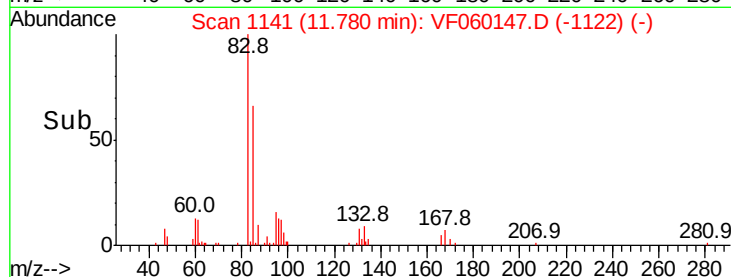
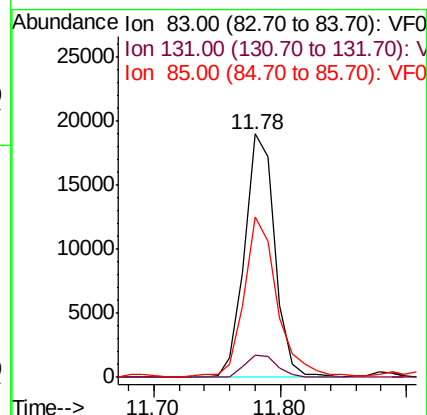
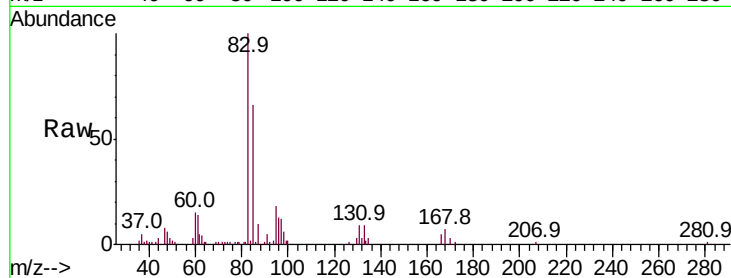
Tot Ion: 83 Resp: 31496

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.7
85	65.9	31.3	93.9

83 100

131 9.0 4.5 13.7

85 65.9 31.3 93.9



#76

1,2,3-Trichloropropane

Concen: 16.825 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF060147.D

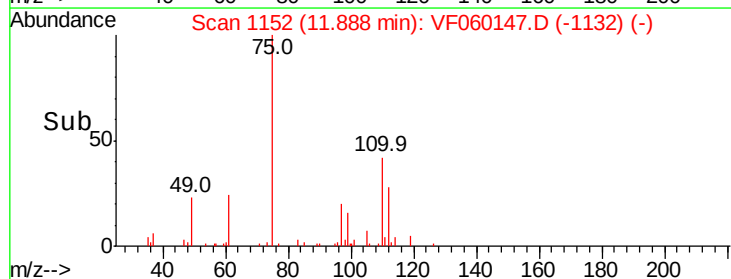
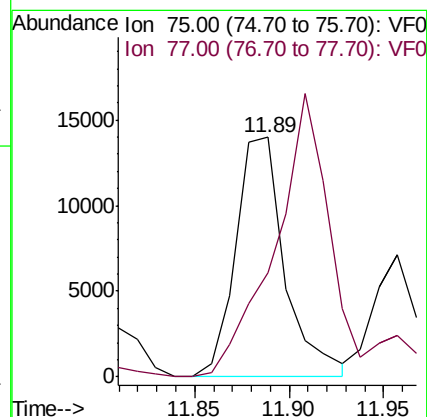
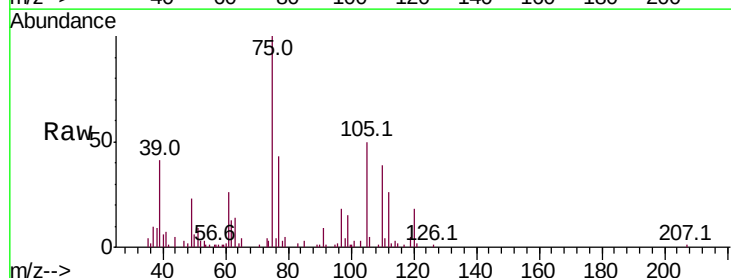
Acq: 28 Aug 2018 14:00

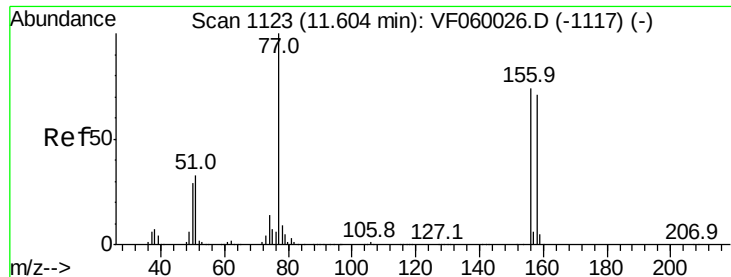
Tgt Ion: 75 Resp: 25236

Ion	Ratio	Lower	Upper
75	100		
77	43.4	17.3	52.0

75 100

77 43.4 17.3 52.0





#77

Bromobenzene

Concen: 20.680 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

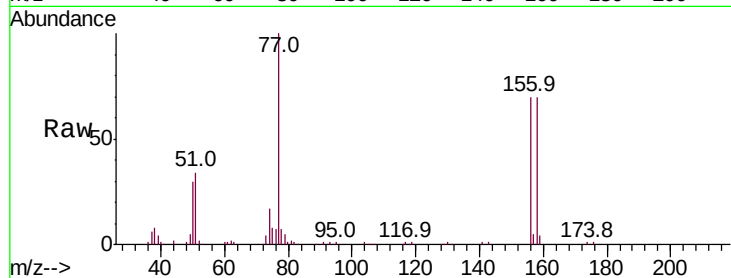
Tot Ion:156 Resp: 49806

Ion Ratio Lower Upper

156 100

77 142.3 68.0 204.0

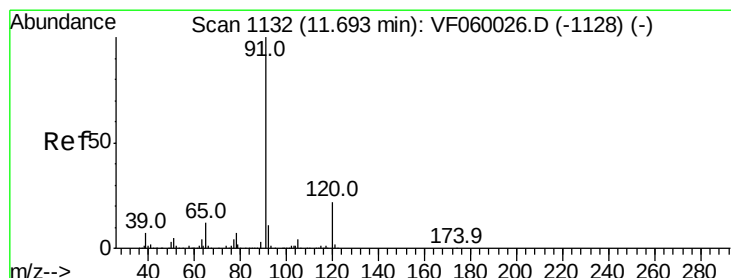
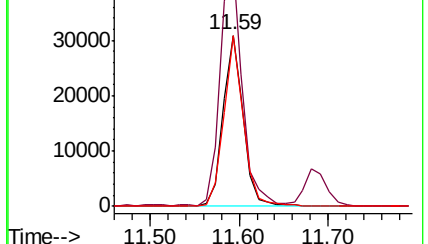
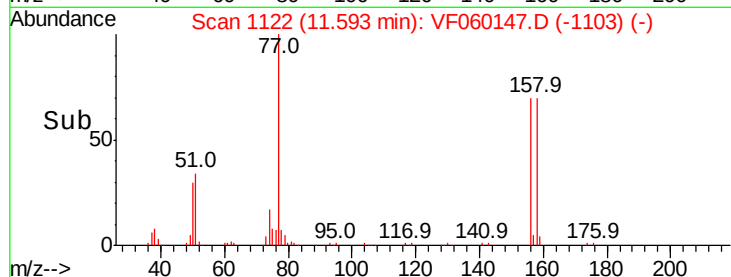
158 100.0 48.4 145.3



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 24.162 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF060147.D

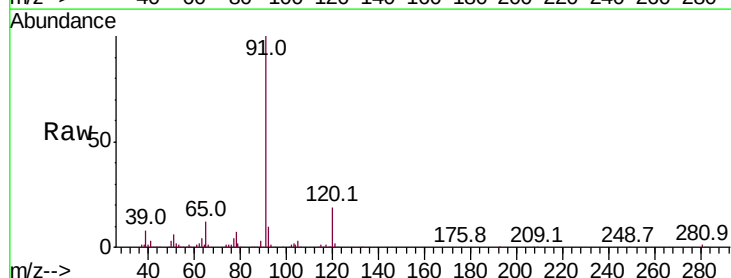
Acq: 28 Aug 2018 14:00

Tgt Ion: 91 Resp: 264103

Ion Ratio Lower Upper

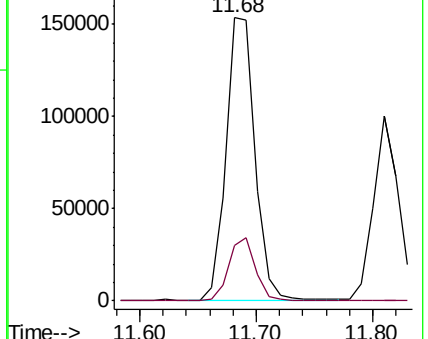
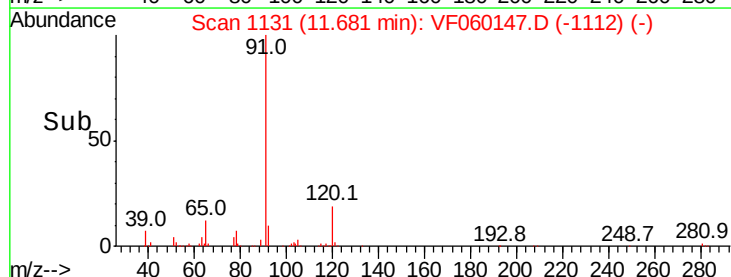
91 100

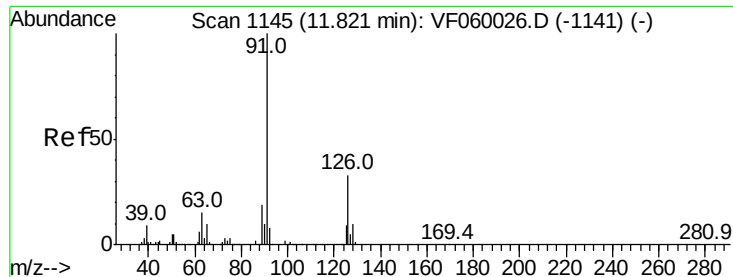
120 19.4 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.930 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

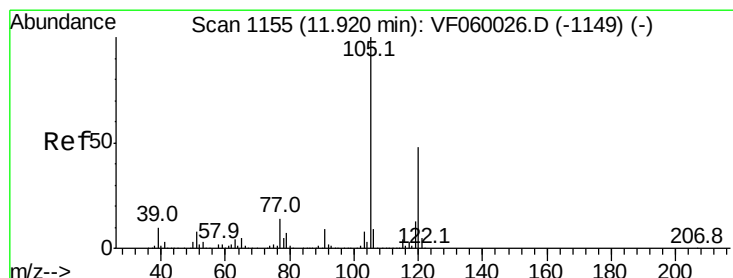
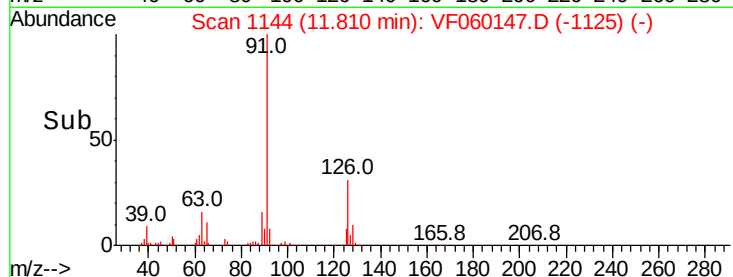
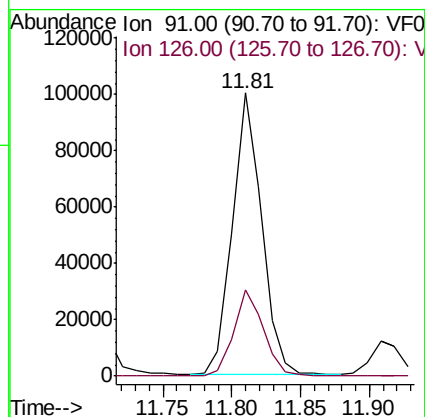
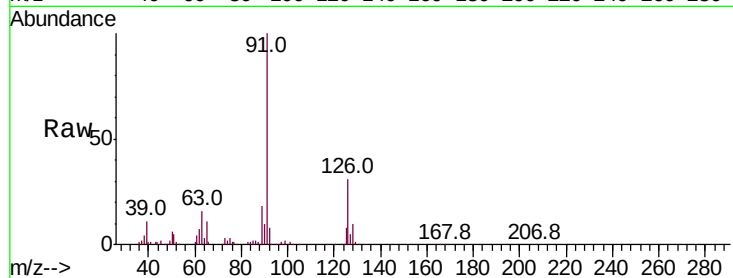
VF0828SBSD01

Tot Ion: 91 Resp: 147380

Ion Ratio Lower Upper

91 100

126 30.6 16.6 49.7



#80

1,3,5-Trimethylbenzene

Concen: 24.658 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF060147.D

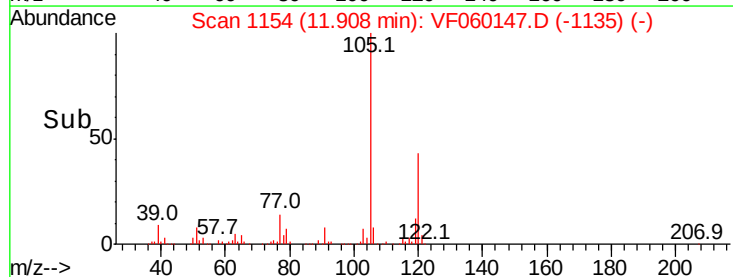
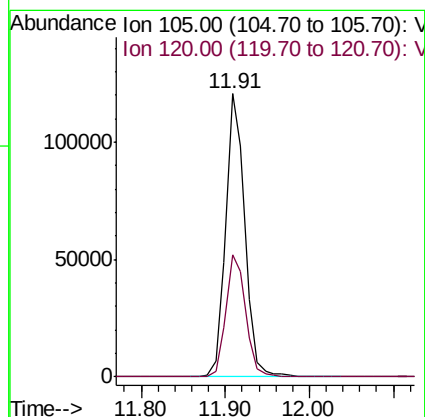
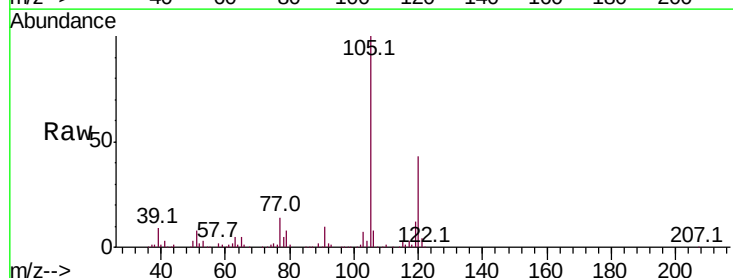
Acq: 28 Aug 2018 14:00

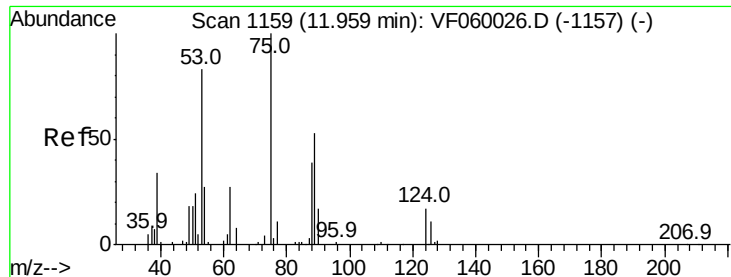
Tgt Ion:105 Resp: 190249

Ion Ratio Lower Upper

105 100

120 43.0 23.8 71.5

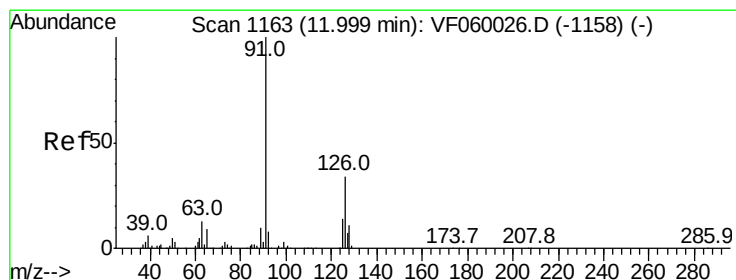
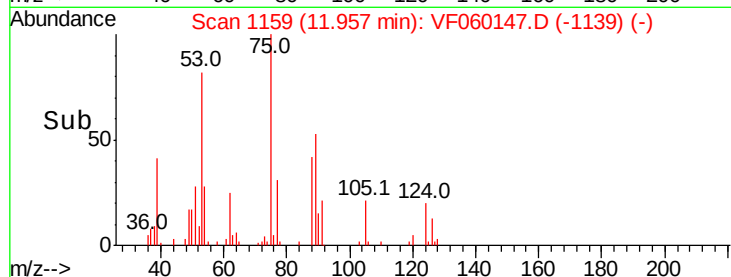
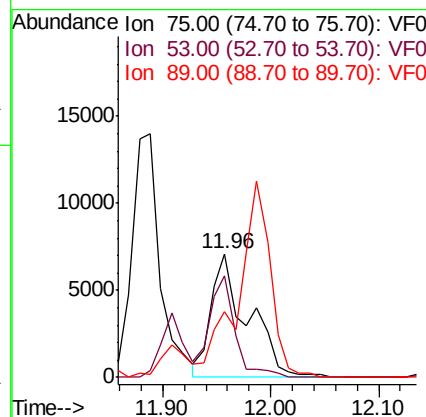
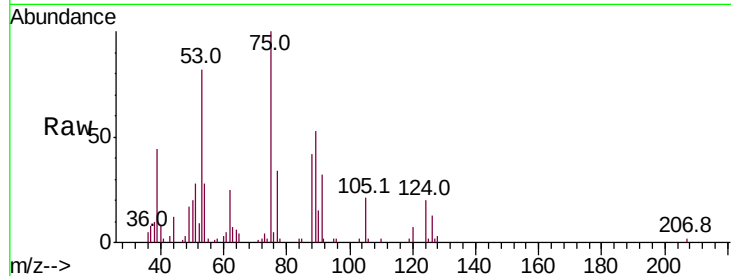




#81
trans-1,4-Dichloro-2-butene
Concen: 24.434 ug/l
RT: 11.96 min Scan# 1159
Delta R.T. -0.00 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

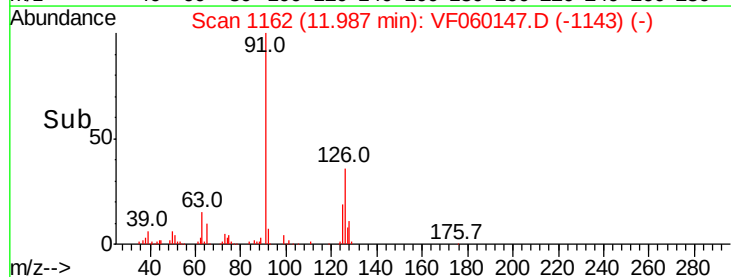
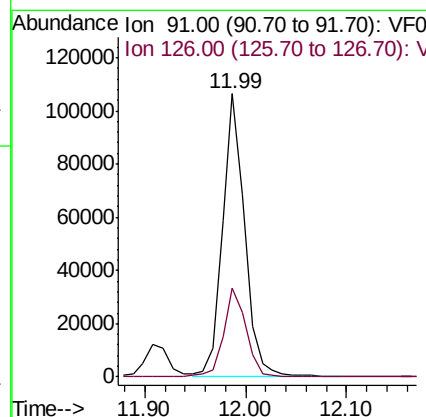
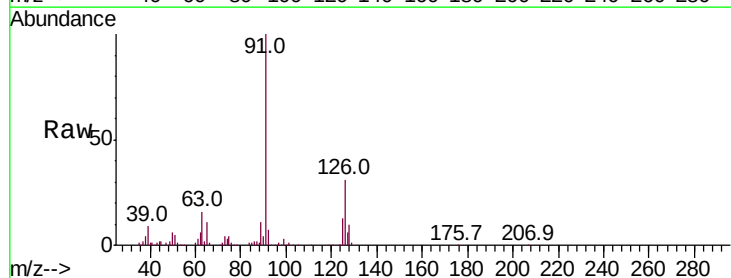
Instrument :
MSVOA_F
ClientSampleId :
VF0828SBS01

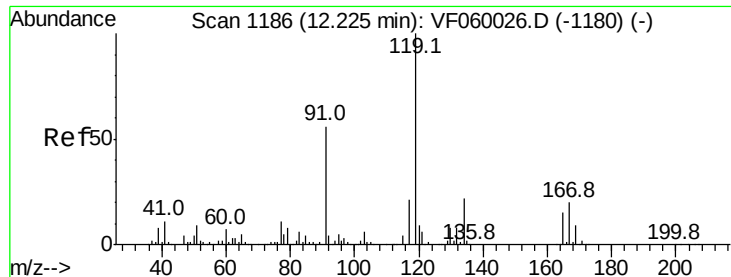
Tot Ion: 75 Resp: 16768
Ion Ratio Lower Upper
75 100
53 82.1 66.2 99.4
89 52.7 42.8 64.2



#82
4-Chlorotoluene
Concen: 23.215 ug/l
RT: 11.99 min Scan# 1162
Delta R.T. -0.01 min
Lab File: VF060147.D
Acq: 28 Aug 2018 14:00

Tgt Ion: 91 Resp: 161994
Ion Ratio Lower Upper
91 100
126 31.4 17.0 50.9

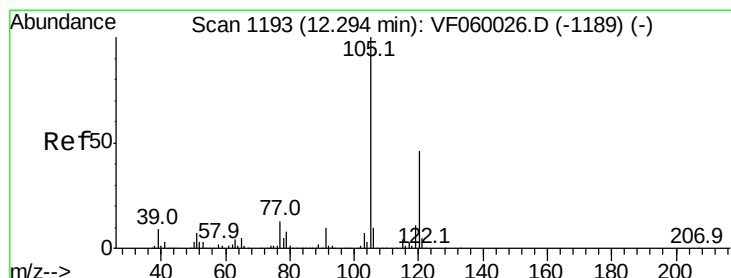
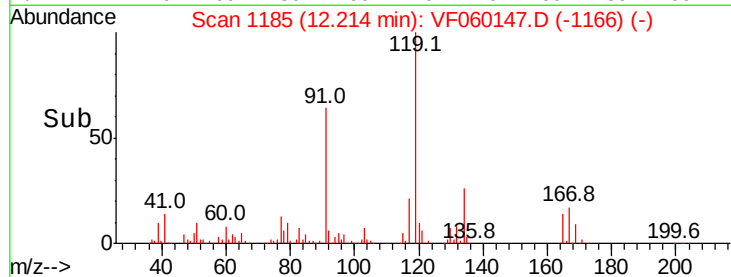
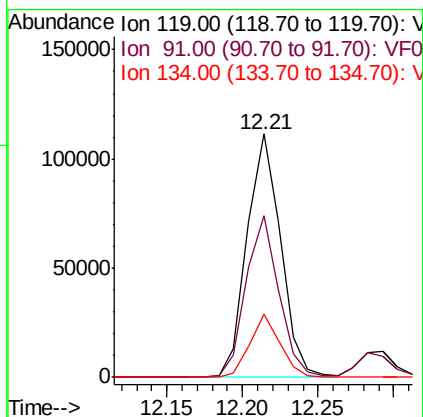
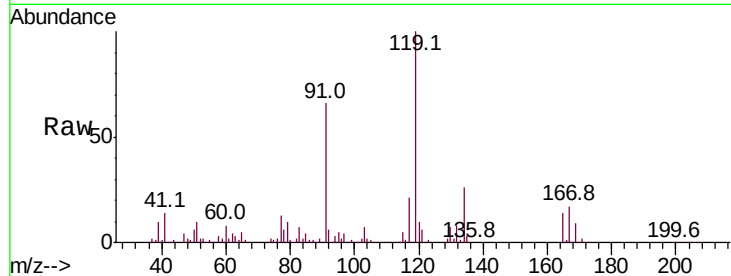




#83
 tert-Butylbenzene
 Concen: 23.082 ug/l
 RT: 12.21 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

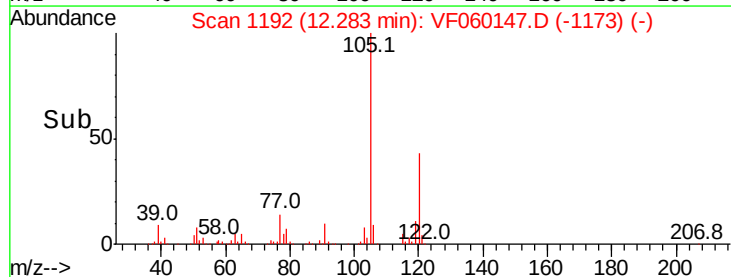
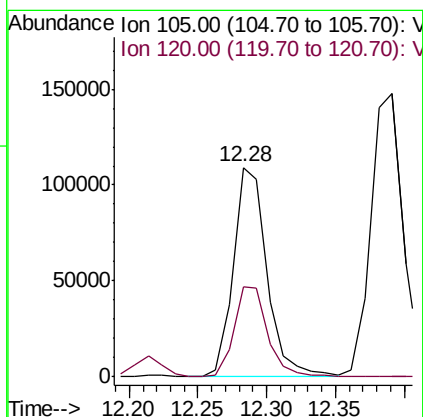
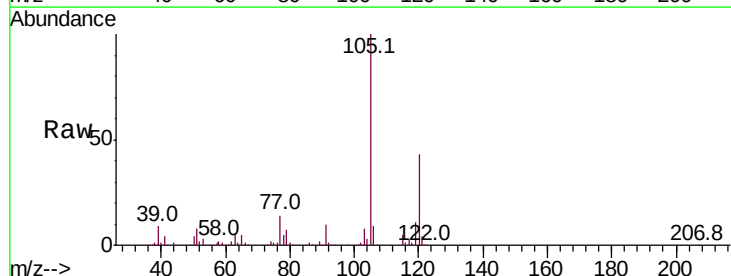
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

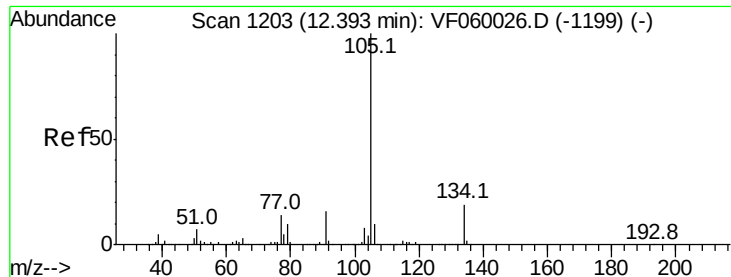
Tot Ion:119 Resp: 173696
 Ion Ratio Lower Upper
 119 100
 91 66.3 28.1 84.3
 134 25.9 11.1 33.3



#84
 1,2,4-Trimethylbenzene
 Concen: 22.772 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion:105 Resp: 186790
 Ion Ratio Lower Upper
 105 100
 120 42.9 23.3 69.8





#85

sec-Butylbenzene

Concen: 23.088 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

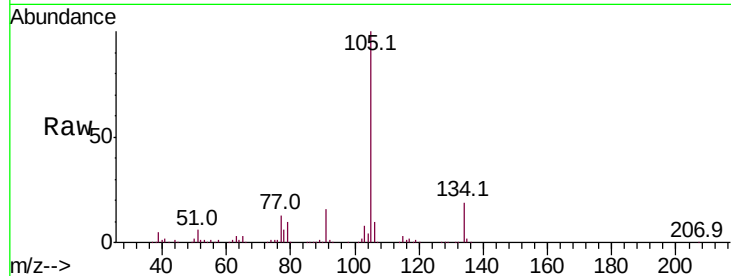
VF0828SBS01

Tot Ion:105 Resp: 241875

Ion Ratio Lower Upper

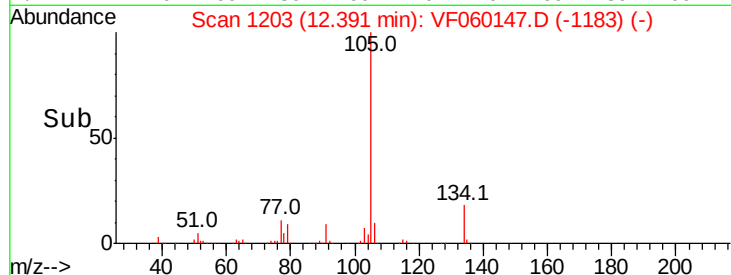
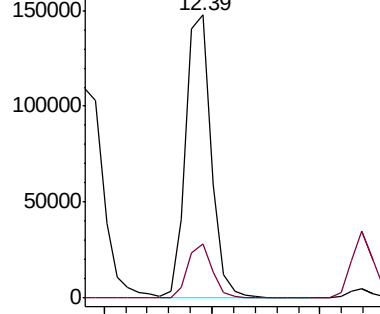
105 100

134 19.1 9.3 27.9

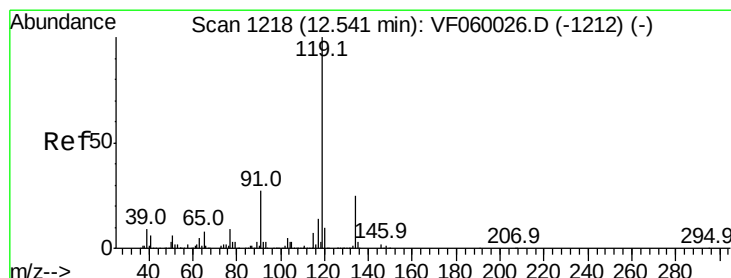


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 23.668 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

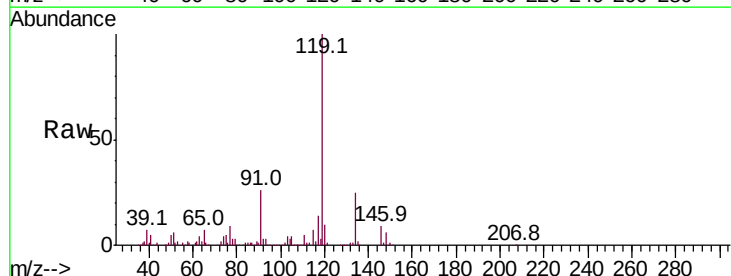
Tgt Ion:119 Resp: 205709

Ion Ratio Lower Upper

119 100

134 24.9 12.4 37.2

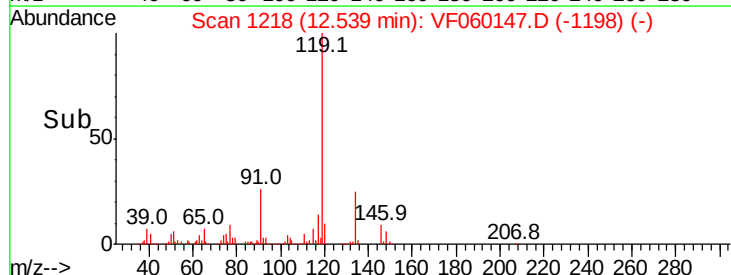
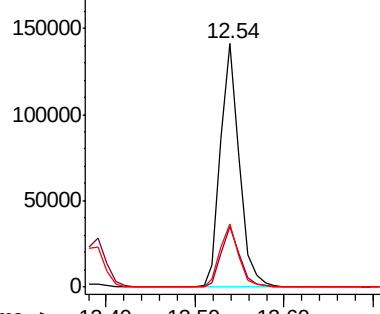
91 26.0 13.5 40.4



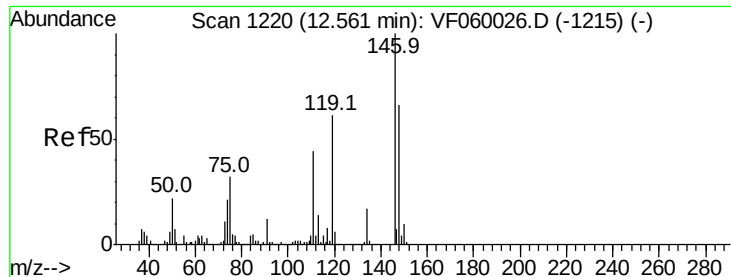
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



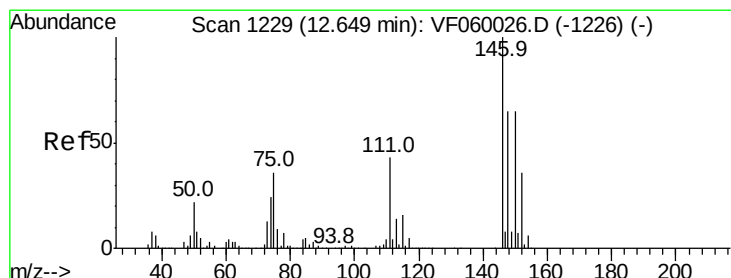
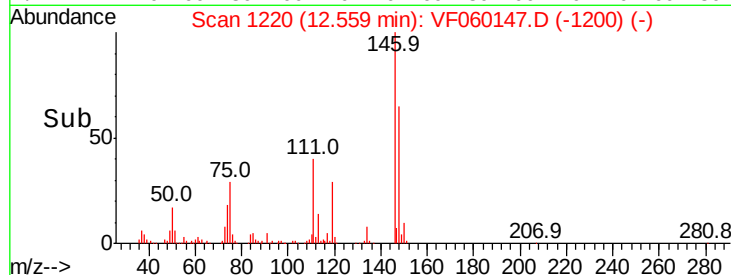
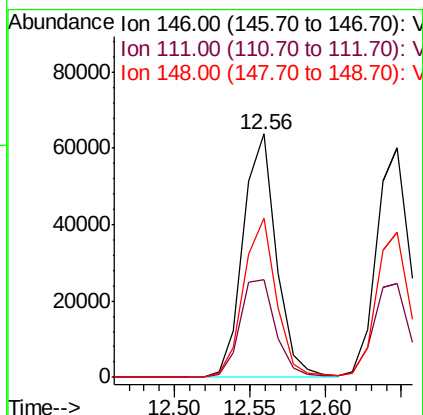
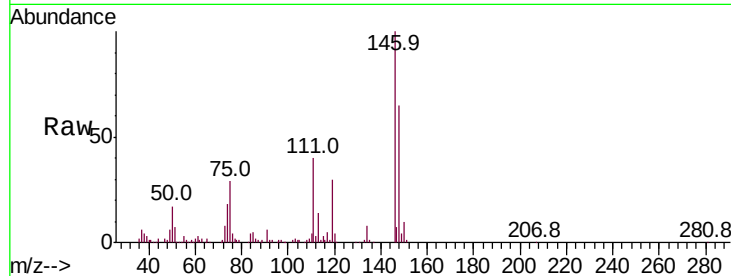
Time-->



#87
 1,3-Dichlorobenzene
 Concen: 21.996 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

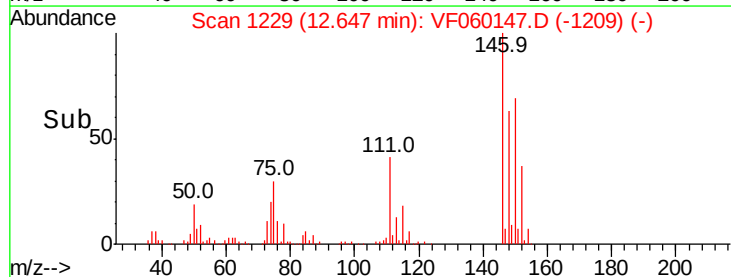
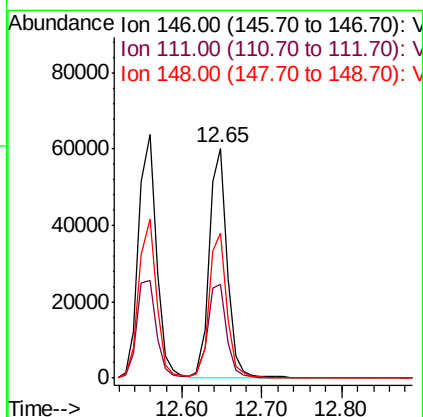
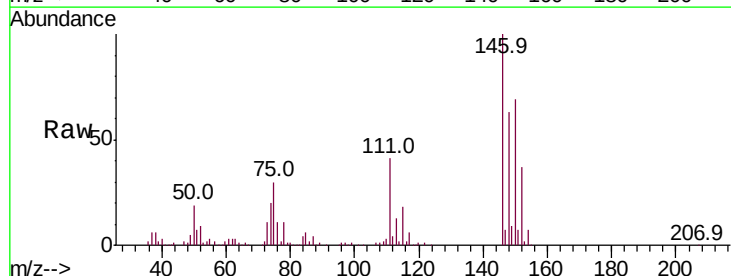
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

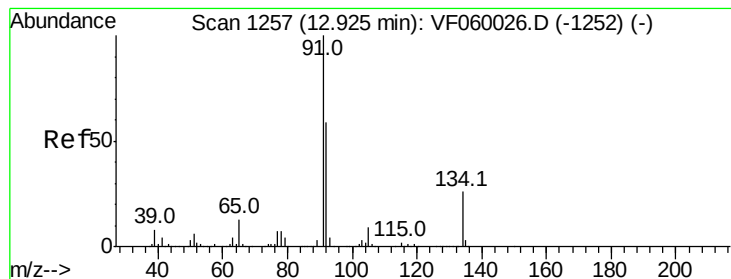
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.9	65.5
148	65.3	32.9	98.7



#88
 1,4-Dichlorobenzene
 Concen: 21.776 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.6	64.8
148	63.3	32.3	96.8





#89

n-Butylbenzene

Concen: 23.037 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBS01

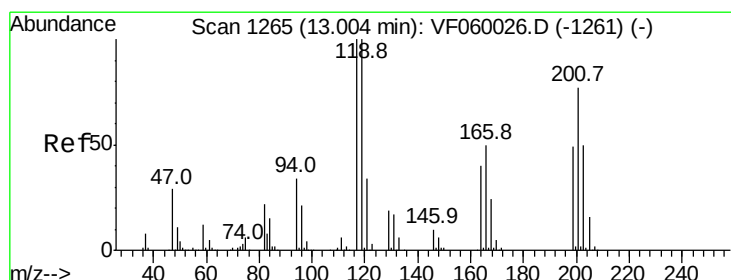
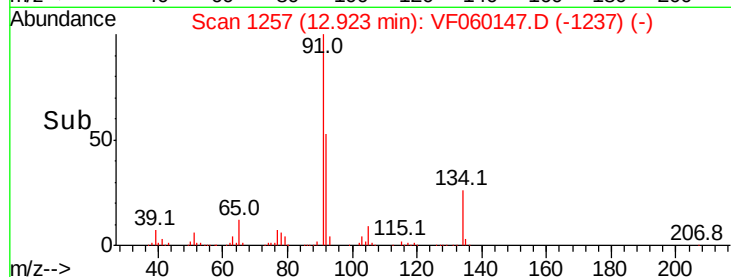
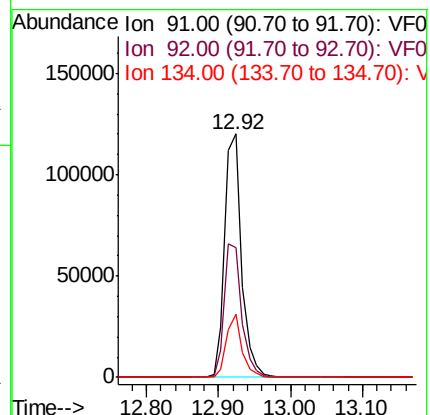
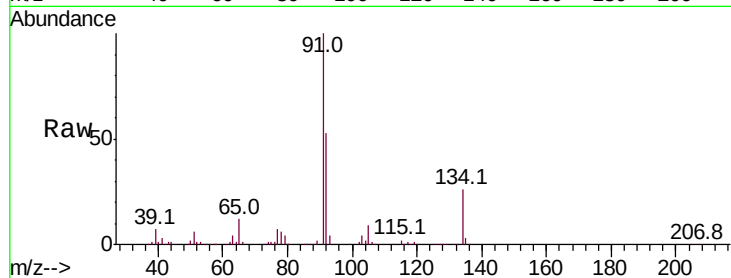
Tot Ion: 91 Resp: 194524

Ion Ratio Lower Upper

91 100

92 53.4 29.3 87.9

134 25.7 12.8 38.3



#90

Hexachloroethane

Concen: 22.721 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF060147.D

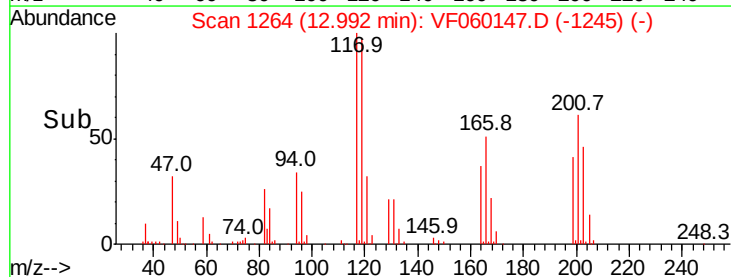
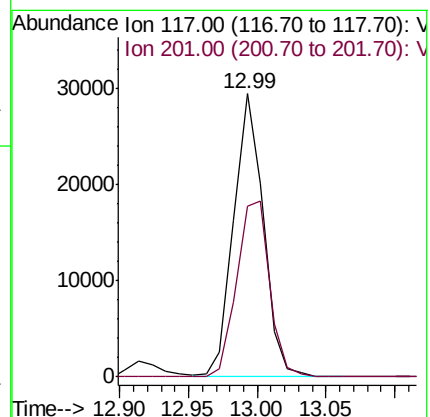
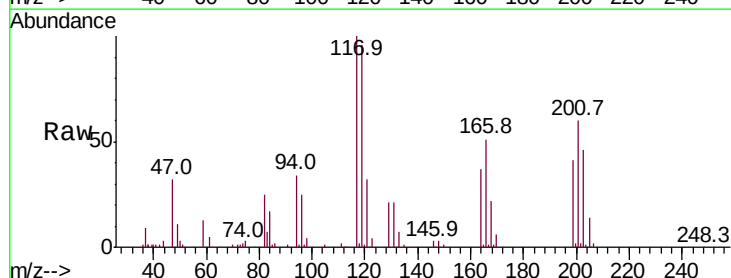
Acq: 28 Aug 2018 14:00

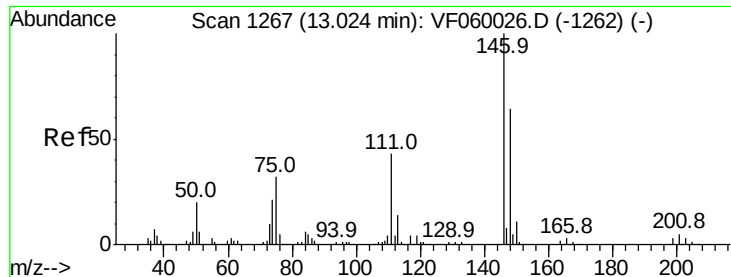
Tgt Ion: 117 Resp: 44376

Ion Ratio Lower Upper

117 100

201 60.3 38.6 115.8

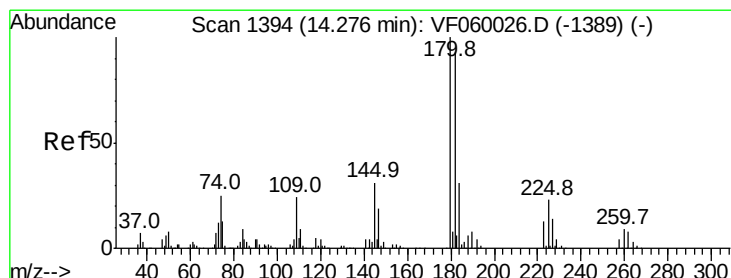
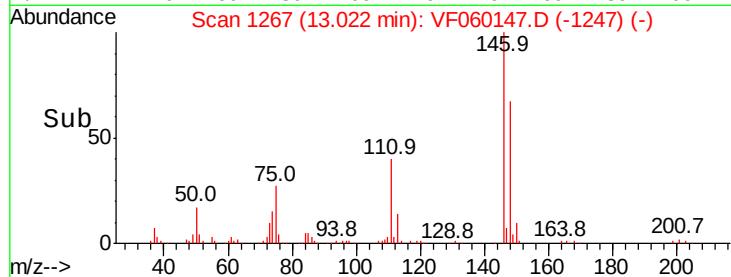
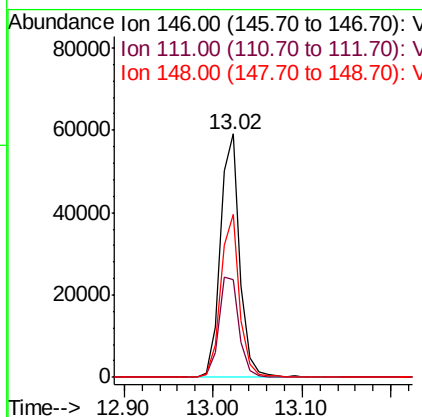
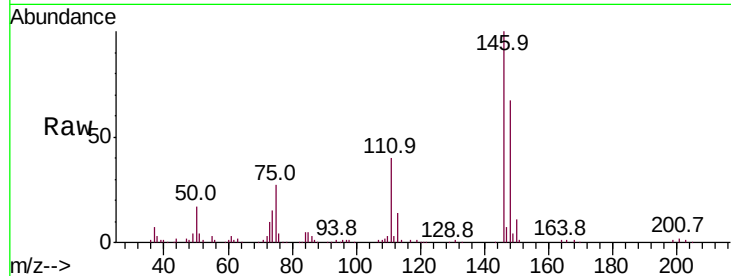




#91
 1,2-Dichlorobenzene
 Concen: 21.138 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

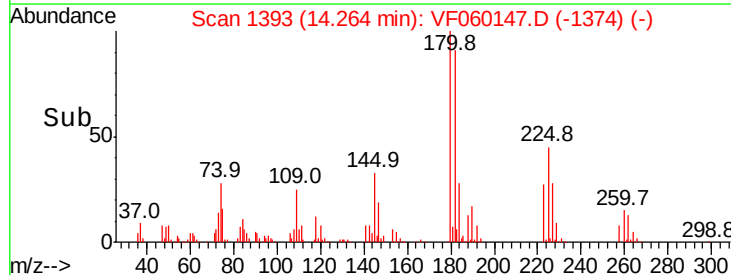
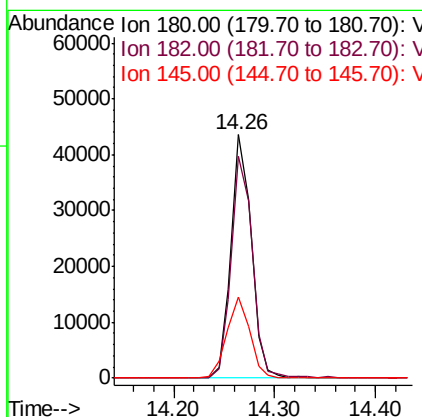
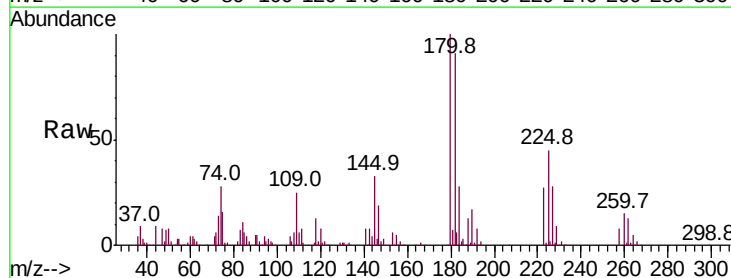
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBS01

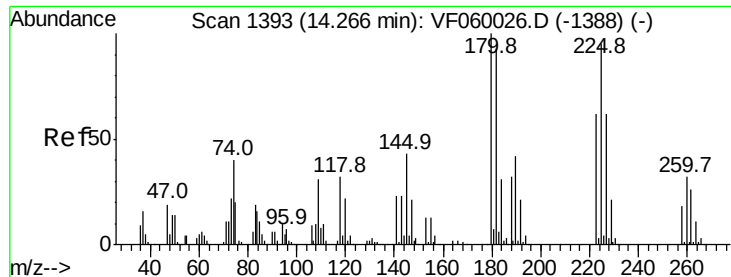
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.6	64.6
148	66.9	32.3	96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 19.417 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.8	140.3
145	33.2	15.4	46.4





#94

Hexachlorobutadiene

Concen: 22.634 ug/l

RT: 14.25 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

Instrument :

MSVOA_F

ClientSampleId :

VF0828SBSD01

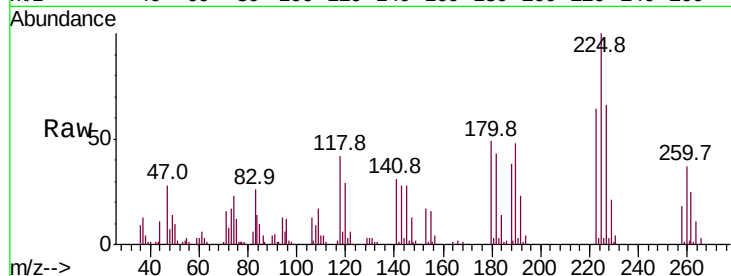
Tot Ion:225 Resp: 44428

Ion Ratio Lower Upper

225 100

223 63.8 32.6 97.8

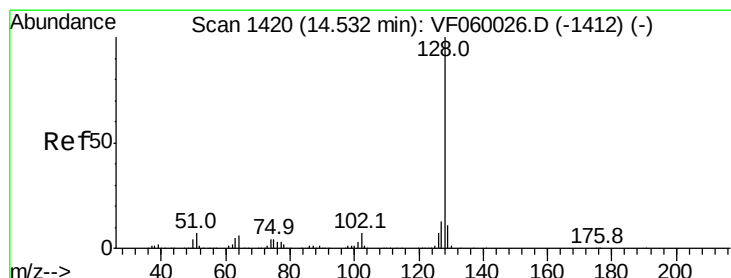
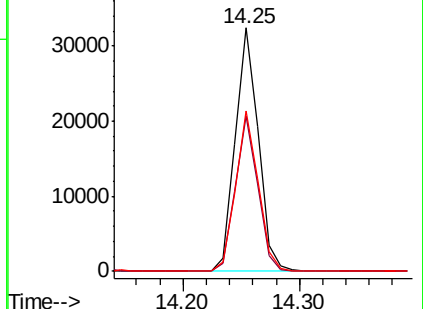
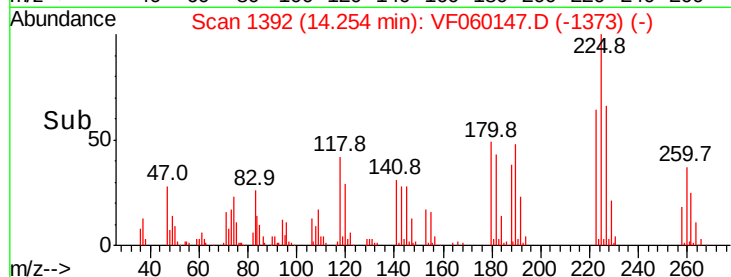
227 65.7 33.0 98.9



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 14.145 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VF060147.D

Acq: 28 Aug 2018 14:00

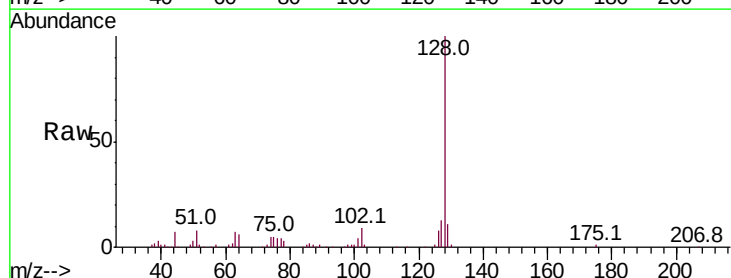
Tgt Ion:128 Resp: 67997

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

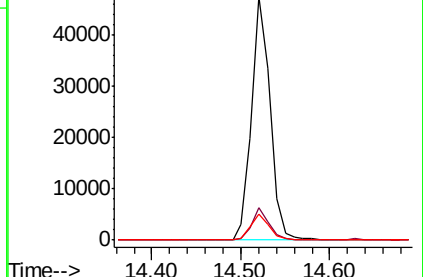
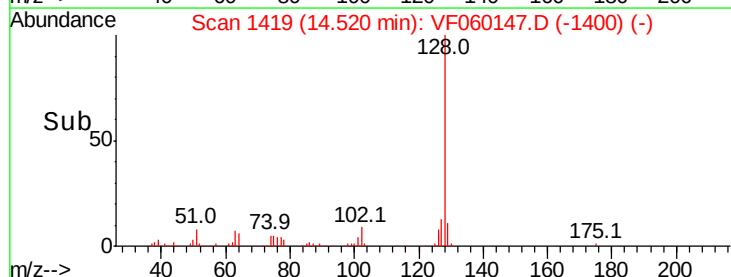
129 10.8 8.5 12.7

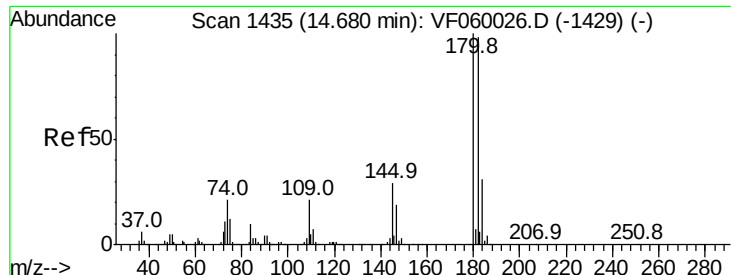


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

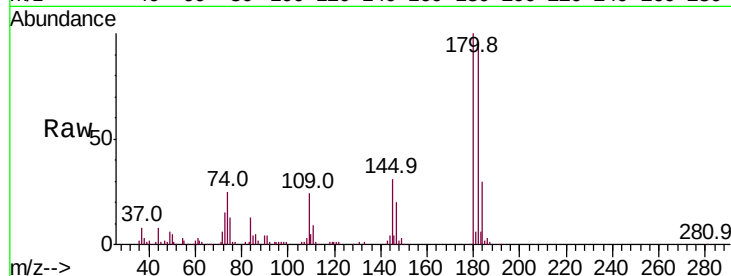




#96
 1,2,3-Trichlorobenzene
 Concen: 18.065 ug/l
 RT: 14.67 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: VF060147.D
 Acq: 28 Aug 2018 14:00

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0828SBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	49.0	147.2
145	30.9	14.4	43.2



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

