

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060850.D
 Acq On : 28 Nov 2018 11:04
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 29 03:26:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	222674	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.61	114	350276	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.80	117	345463	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	171382	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	123358	47.03	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	94.06%	
35) Dibromofluoromethane	4.13	113	138818	49.96	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.92%	
50) Toluene-d8	7.58	98	405739	49.57	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.42	95	183924	49.44	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	157705	47.367	ug/l	95
3) Chloromethane	1.10	50	99878	46.101	ug/l	97
4) Vinyl Chloride	1.14	62	98578	48.780	ug/l	99
5) Bromomethane	1.34	94	71639	50.273	ug/l	90
6) Chloroethane	1.39	64	45373	51.940	ug/l	93
7) Trichlorofluoromethane	1.49	101	200748	46.298	ug/l	96
8) Diethyl Ether	1.64	74	31035	49.775	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.83	101	103947	47.420	ug/l	91
10) Methyl Iodide	1.91	142	137734	41.338	ug/l	97
11) Tert butyl alcohol	2.58	59	25234	234.669	ug/l	99
12) 1,1-Dichloroethene	1.80	96	81966	46.488	ug/l	94
13) Acrolein	2.01	56	26212	257.280	ug/l	95
14) Allyl chloride	2.10	41	94783	43.130	ug/l	97
15) Acrylonitrile	2.96	53	57571	238.810	ug/l	91
16) Acetone	2.25	43	141810	293.160	ug/l	96
17) Carbon Disulfide	1.84	76	223025	47.176	ug/l	98
18) Methyl Acetate	2.36	43	42010	51.826	ug/l	99
19) Methyl tert-butyl Ether	2.44	73	187175	47.134	ug/l	99
20) Methylene Chloride	2.26	84	56433	31.801	ug/l	96
21) trans-1,2-Dichloroethene	2.32	96	61747	36.326	ug/l	98
22) Diisopropyl ether	2.81	45	289586	48.411	ug/l	95
23) Vinyl Acetate	3.21	43	677021	247.597	ug/l	97
24) 1,1-Dichloroethane	2.88	63	168639	47.384	ug/l	100
25) 2-Butanone	4.35	43	219934	262.865	ug/l	100
26) 2,2-Dichloropropane	3.61	77	100196	43.425	ug/l	99
27) cis-1,2-Dichloroethene	3.49	96	142892	51.636	ug/l	90
28) Bromochloromethane	3.74	49	78293	45.838	ug/l	90
29) Tetrahydrofuran	4.09	42	77124	217.461	ug/l	97
30) Chloroform	3.88	83	250543	45.741	ug/l	97
31) Cyclohexane	3.71	56	87466	23.681	ug/l	97
32) 1,1,1-Trichloroethane	4.11	97	153012	40.280	ug/l	94
36) 1,1-Dichloropropene	4.29	75	192662	49.589	ug/l	96
37) Ethyl Acetate	4.13	43	76147	48.230	ug/l	84
38) Carbon Tetrachloride	4.00	117	146720	42.756	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	191771	47.100	ug/l	99
40) Benzene	4.65	78	431621	50.288	ug/l	100
41) Methacrylonitrile	4.76	41	40889	50.023	ug/l	96
42) 1,2-Dichloroethane	4.96	62	145173	46.329	ug/l	98
43) Isopropyl Acetate	6.97	43	97127	49.853	ug/l #	96
44) Trichloroethene	5.52	130	134170	47.809	ug/l	96
45) 1,2-Dichloropropane	6.25	63	117595	52.753	ug/l	97
46) Dibromomethane	6.11	93	72981	48.262	ug/l	93
47) Bromodichloromethane	6.40	83	195062	48.567	ug/l	97
48) Methyl methacrylate	6.74	41	65382	45.750	ug/l	95
49) 1,4-Dioxane	6.73	88	10093	964.988	ug/l	96
51) 4-Methyl-2-Pentanone	8.28	43	323732	222.355	ug/l	100
52) Toluene	7.64	92	290842	48.241	ug/l	98
53) t-1,3-Dichloropropene	8.30	75	152820	46.778	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	201017	49.703	ug/l	99
55) 1,1,2-Trichloroethane	8.51	97	85808	48.845	ug/l	99
56) Ethyl methacrylate	8.64	69	94233	48.287	ug/l	93
57) 1,3-Dichloropropane	8.87	76	153324	49.886	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.31	63	34424	172.455	ug/l	95
59) 2-Hexanone	9.51	43	261674	256.186	ug/l	98
60) Dibromochloromethane	8.73	129	120184	45.916	ug/l	97
61) 1,2-Dibromoethane	9.01	107	88480	46.623	ug/l	90
64) Tetrachloroethene	8.17	164	122309	46.353	ug/l	98
65) Chlorobenzene	9.81	112	322541	47.993	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.95	131	123902	42.885	ug/l	97
67) Ethyl Benzene	9.92	91	563216	45.015	ug/l	97
68) m/p-Xylenes	10.15	106	412832	91.741	ug/l	92
69) o-Xylene	10.73	106	230844	46.521	ug/l	96
70) Styrene	10.80	104	318983	46.373	ug/l	99
71) Bromoform	10.79	173	63347	45.392	ug/l	96
73) Isopropylbenzene	11.14	105	684947	50.574	ug/l	98
74) N-amyl acetate	11.38	43	157772	50.448	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.71	83	113220	50.795	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	81328	50.198	ug/l	99
77) Bromobenzene	11.51	156	145016	48.839	ug/l	91
78) n-propylbenzene	11.61	91	795162	50.135	ug/l	97
79) 2-Chlorotoluene	11.74	91	451883	49.689	ug/l	95
80) 1,3,5-Trimethylbenzene	11.84	105	541951	49.291	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.89	75	50972	64.211	ug/l	85
82) 4-Chlorotoluene	11.92	91	455553	47.599	ug/l	94
83) tert-Butylbenzene	12.14	119	547402	48.877	ug/l	96
84) 1,2,4-Trimethylbenzene	12.22	105	537088	48.946	ug/l	97
85) sec-Butylbenzene	12.32	105	752110	49.056	ug/l	100
86) p-Isopropyltoluene	12.48	119	630495	49.050	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	272885	48.315	ug/l	99
88) 1,4-Dichlorobenzene	12.58	146	261868	47.577	ug/l	97
89) n-Butylbenzene	12.85	91	627778	48.300	ug/l	96
90) Hexachloroethane	12.93	117	157635	50.928	ug/l	92
91) 1,2-Dichlorobenzene	12.96	146	258201	48.275	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.66	75	19895	46.166	ug/l	91

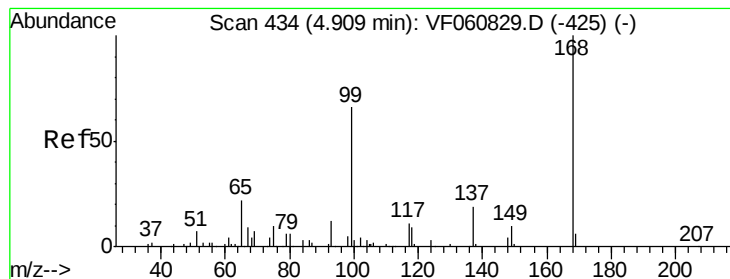
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF112818\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	175944	47.079	ug/l	99
94) Hexachlorobutadiene	14.20	225	117597	47.203	ug/l	99
95) Naphthalene	14.47	128	327800	44.829	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	169444	48.830	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

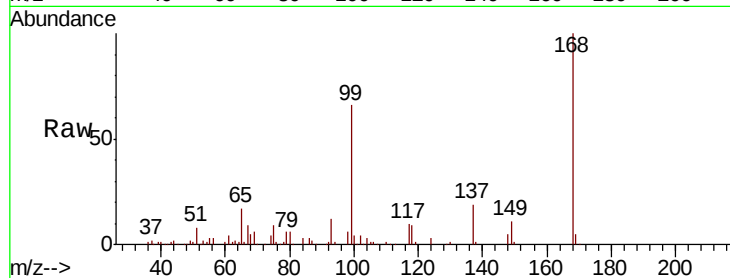
VSTDCCC050

Tot Ion:168 Resp: 222674

Ion Ratio Lower Upper

168 100

99 65.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

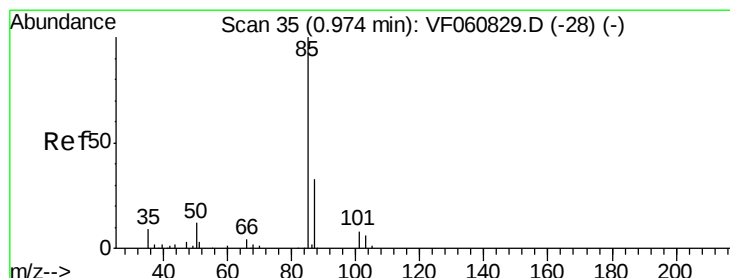
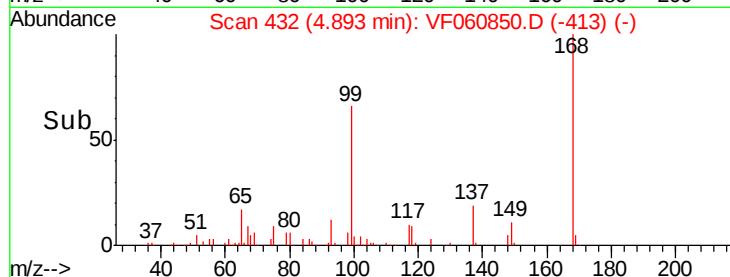
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.367 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060850.D

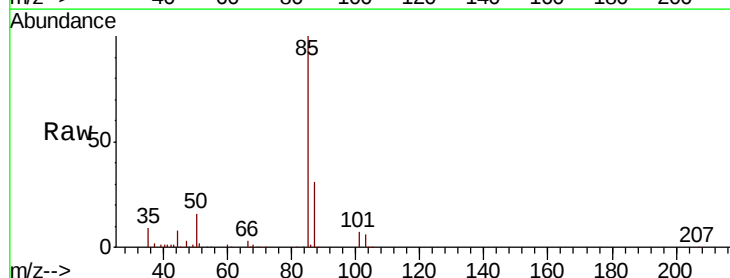
Acq: 28 Nov 2018 11:04

Tgt Ion: 85 Resp: 157705

Ion Ratio Lower Upper

85 100

87 30.7 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

50000

40000

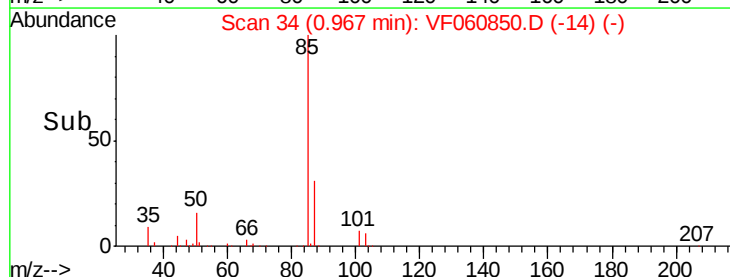
30000

20000

10000

0

Time-->





#3

Chloromethane

Concen: 46.101 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

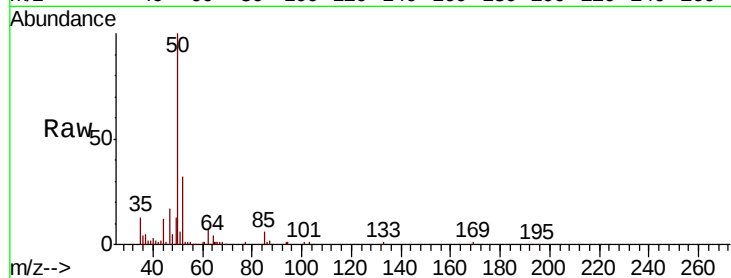
VSTDCCC050

Tot Ion: 50 Resp: 99878

Ion Ratio Lower Upper

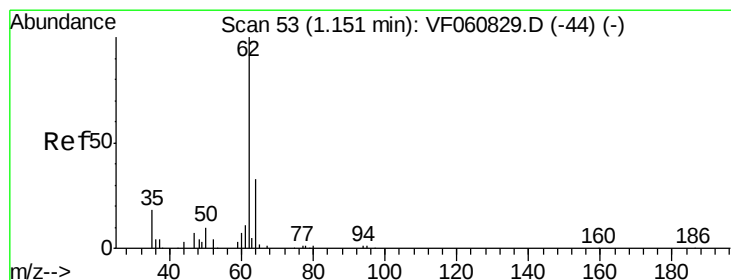
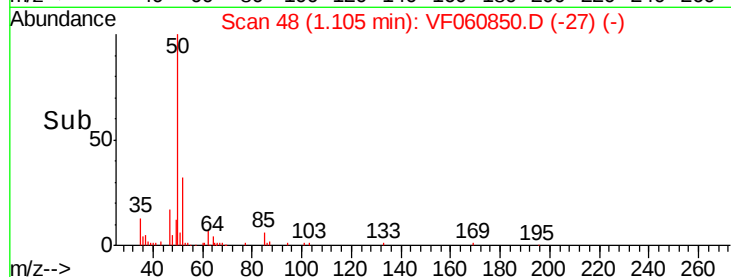
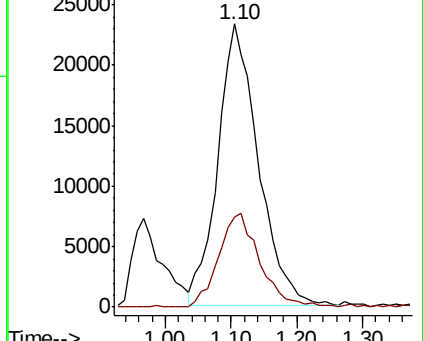
50 100

52 31.9 27.0 40.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 48.780 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060850.D

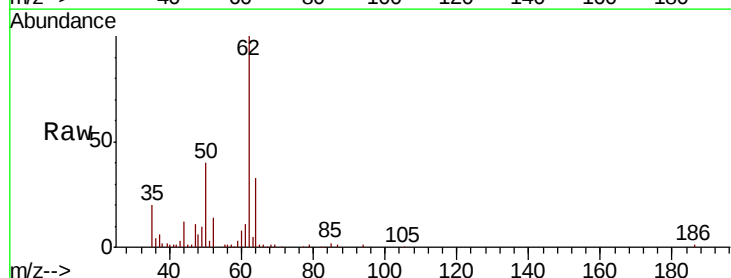
Acq: 28 Nov 2018 11:04

Tgt Ion: 62 Resp: 98578

Ion Ratio Lower Upper

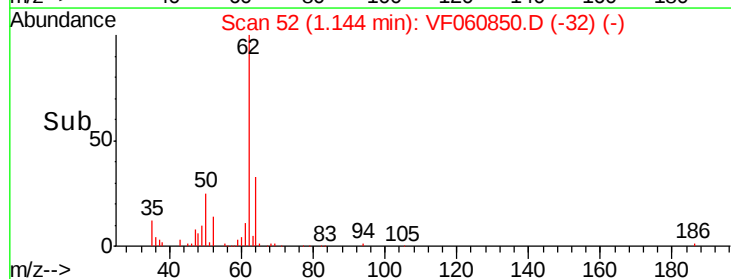
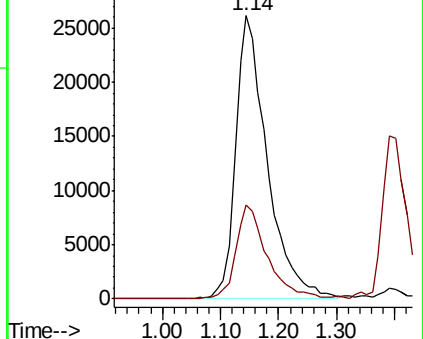
62 100

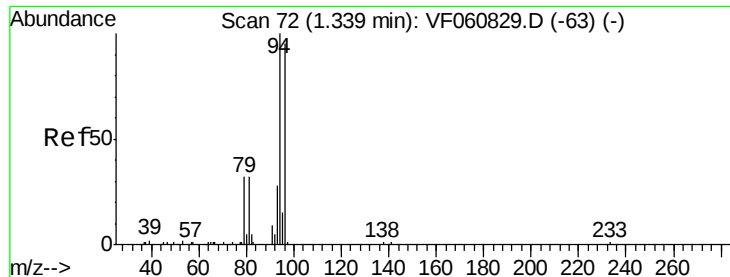
64 33.4 26.4 39.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 50.273 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

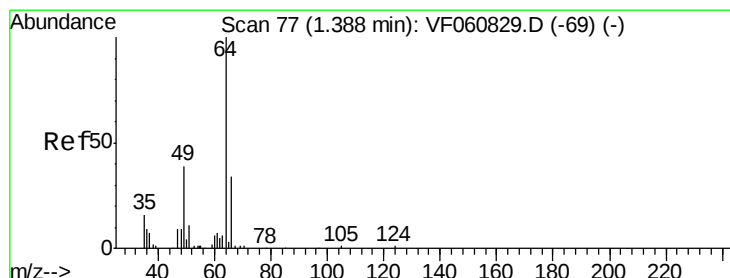
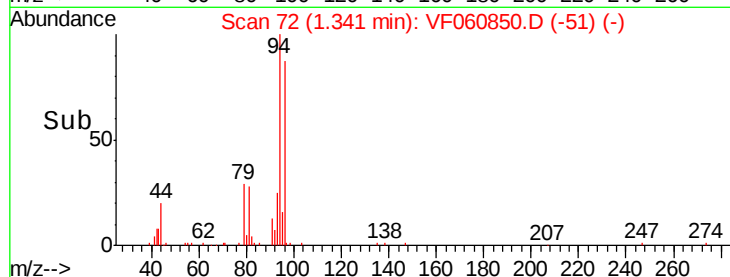
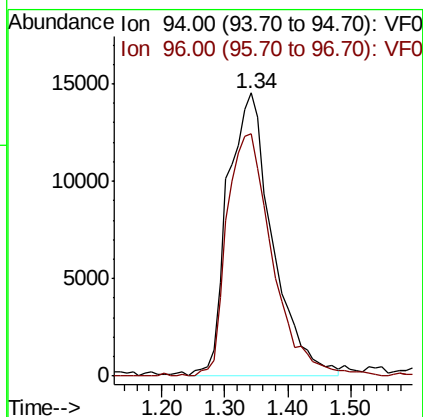
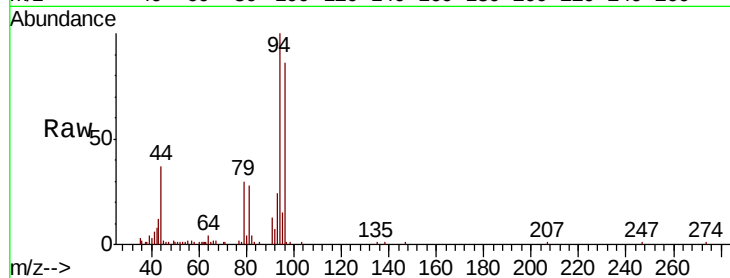
VSTDCCC050

Tot Ion: 94 Resp: 71639

Ion Ratio Lower Upper

94 100

96 85.5 75.9 113.9



#6

Chloroethane

Concen: 51.940 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.00 min

Lab File: VF060850.D

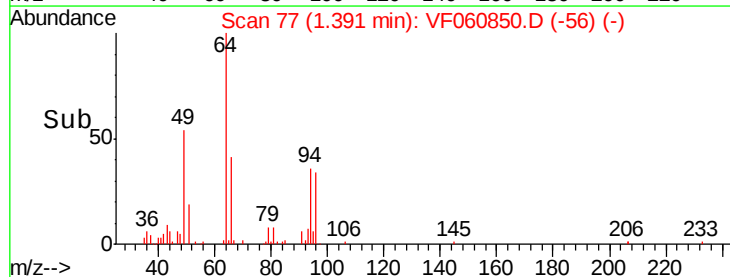
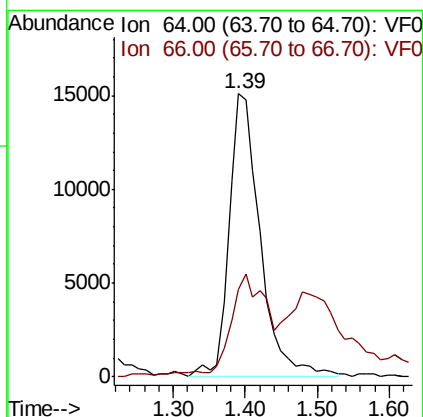
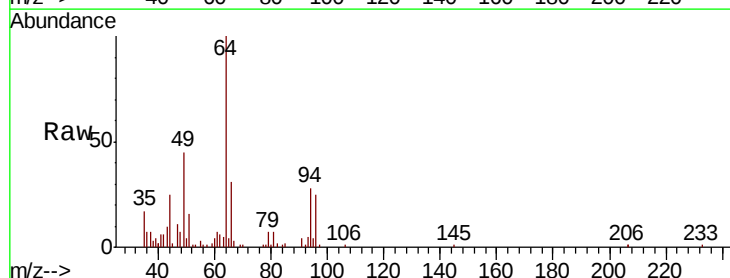
Acq: 28 Nov 2018 11:04

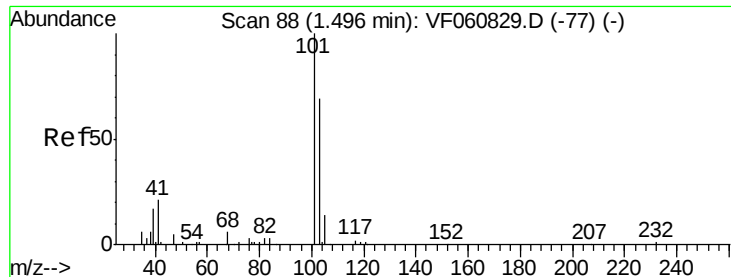
Tgt Ion: 64 Resp: 45373

Ion Ratio Lower Upper

64 100

66 30.9 28.1 42.1



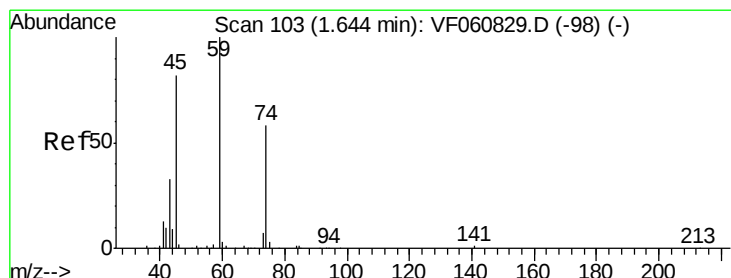
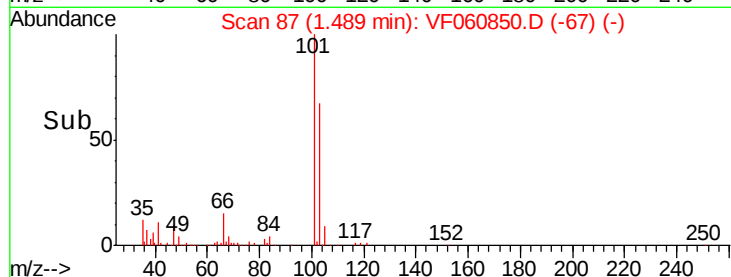
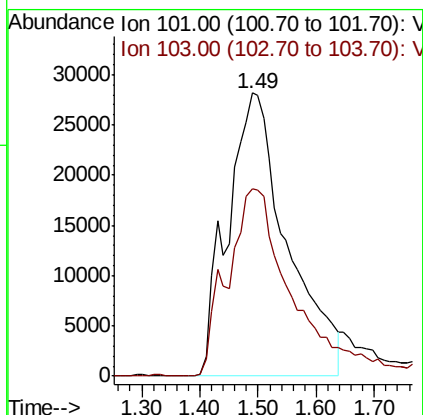
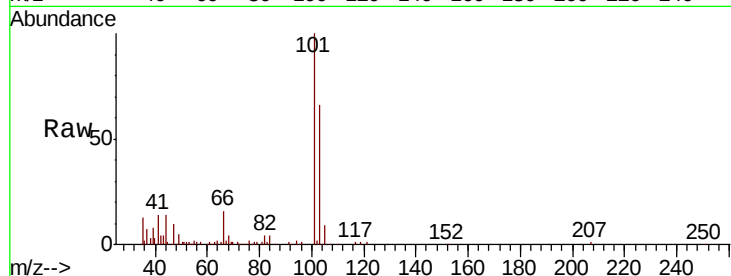


#7

Trichlorofluoromethane
 Concen: 46.298 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Instrument :
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 VSTDCCC050

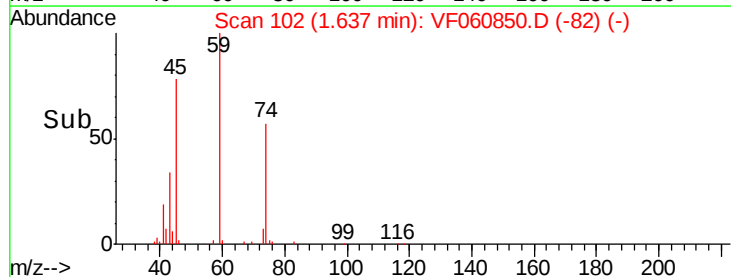
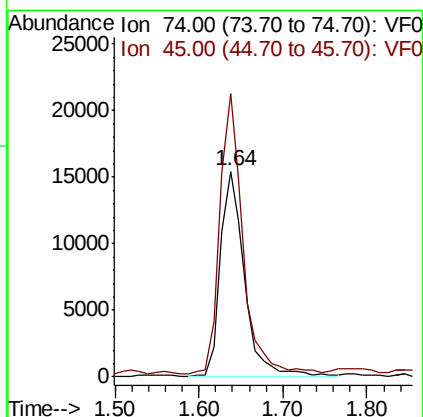
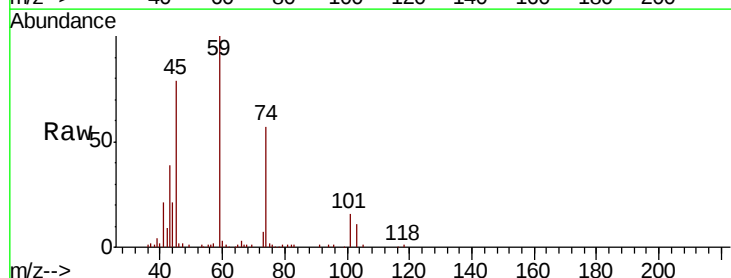
Tot Ion:101 Resp: 200748
 Ion Ratio Lower Upper
 101 100
 103 66.2 55.4 83.0



#8

Diethyl Ether
 Concen: 49.775 ug/l
 RT: 1.64 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion: 74 Resp: 31035
 Ion Ratio Lower Upper
 74 100
 45 137.5 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.420 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

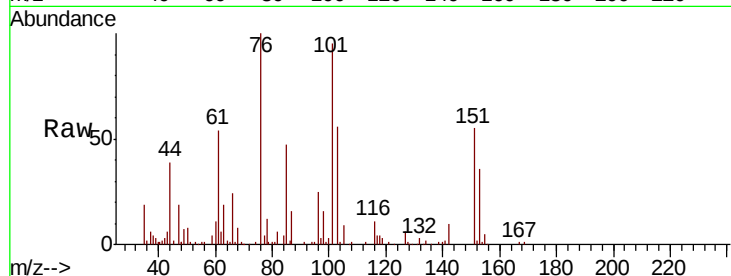
Tot Ion:101 Resp: 103947

Ion Ratio Lower Upper

101 100

85 49.3 42.8 64.2

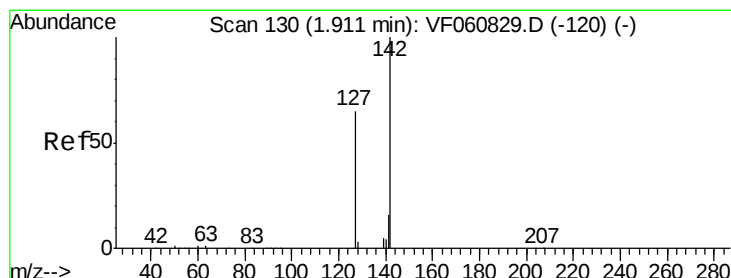
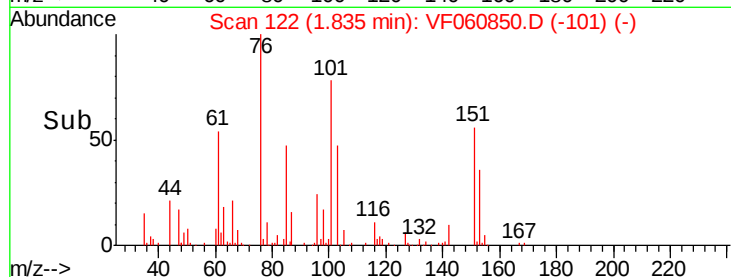
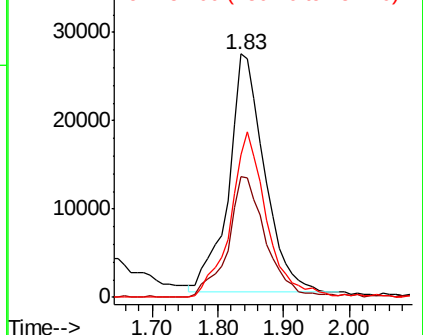
151 58.4 54.4 81.6



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: 41.338 ug/l

RT: 1.91 min Scan# 130

Delta R.T. 0.00 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

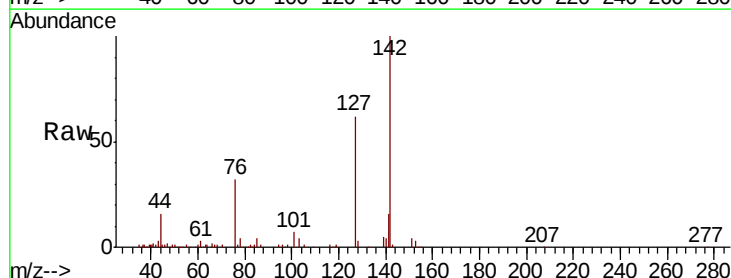
Tgt Ion:142 Resp: 137734

Ion Ratio Lower Upper

142 100

127 62.1 51.9 77.9

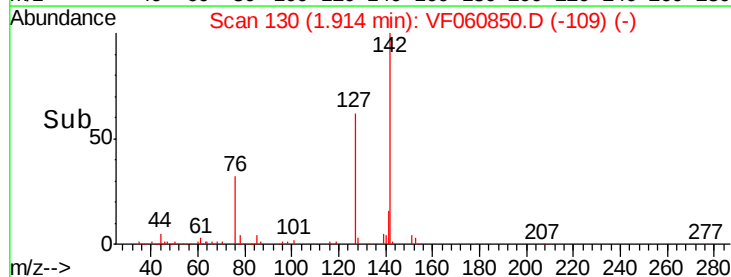
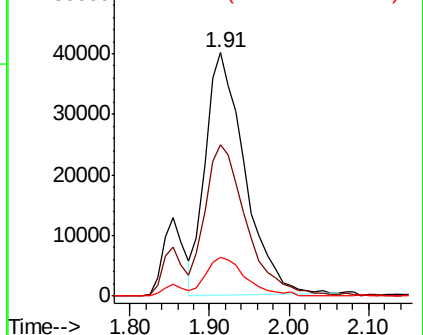
141 16.1 12.7 19.1

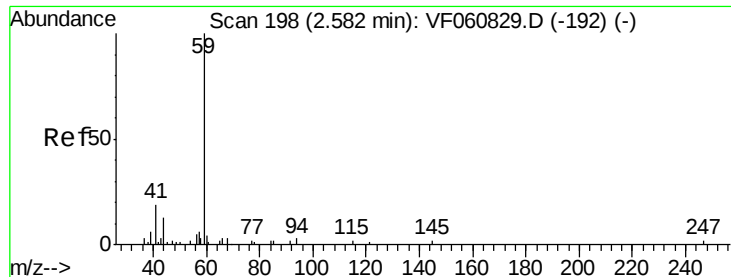


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

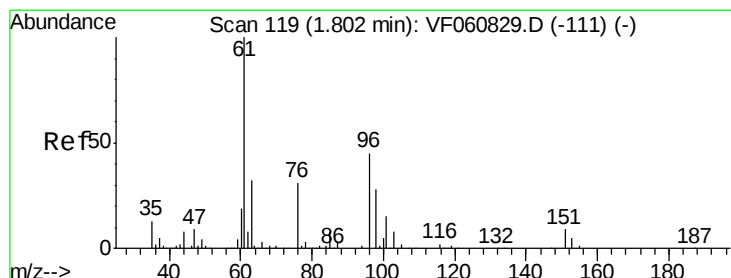
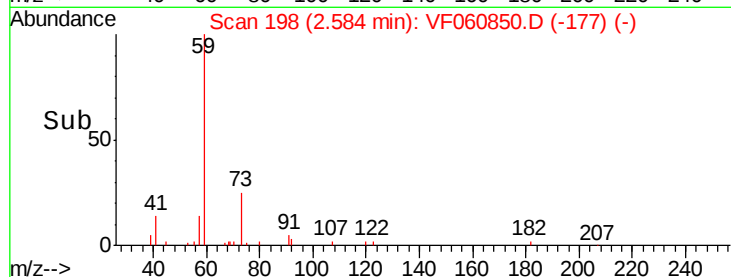
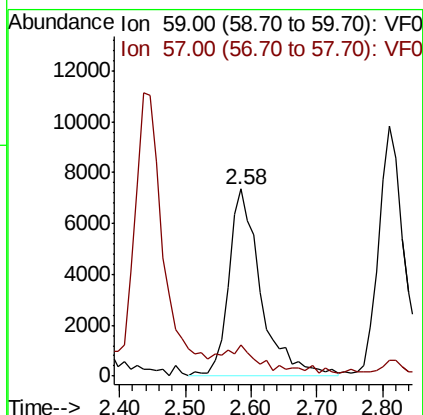
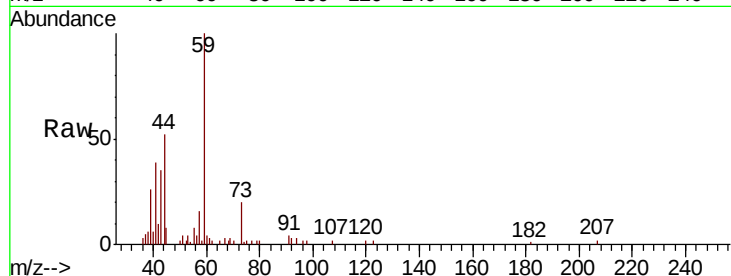




#11
Tert butyl alcohol
Concen: 234.669 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

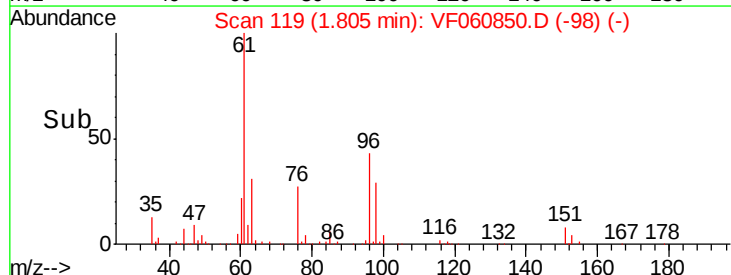
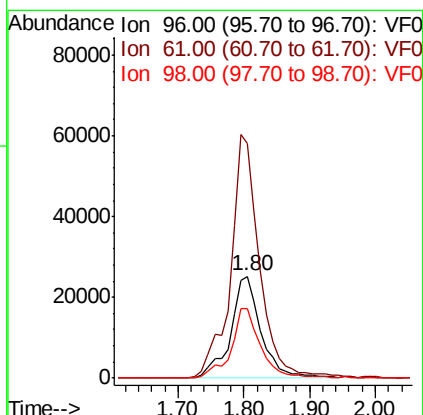
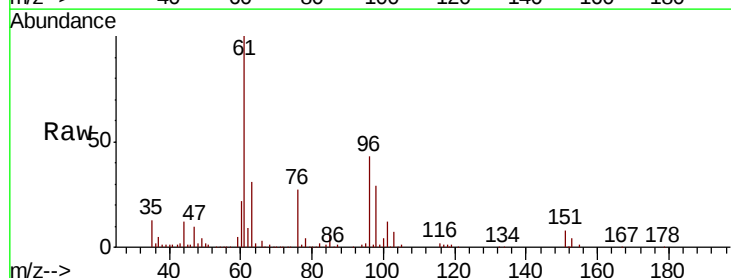
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

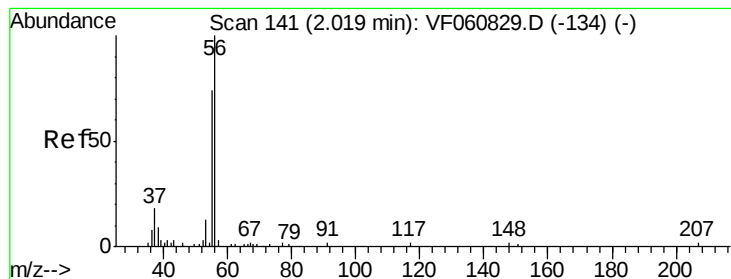
Tot Ion: 59 Resp: 25234
Ion Ratio Lower Upper
59 100
57 16.3 12.7 19.1



#12
1,1-Dichloroethene
Concen: 46.488 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 96 Resp: 81966
Ion Ratio Lower Upper
96 100
61 230.3 177.3 265.9
98 67.9 49.6 74.4





#13

Acrolein

Concen: 257.280 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

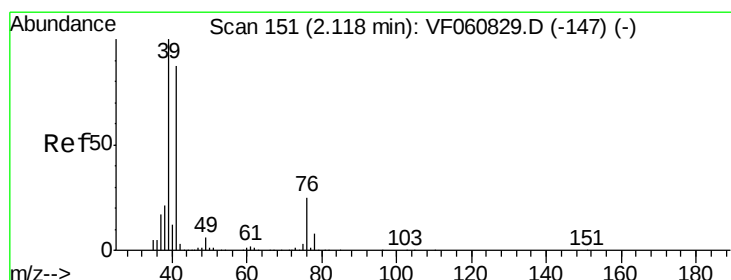
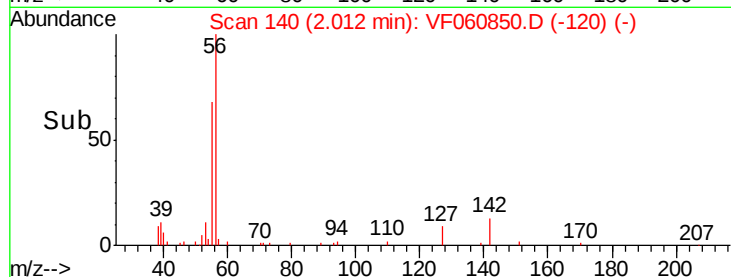
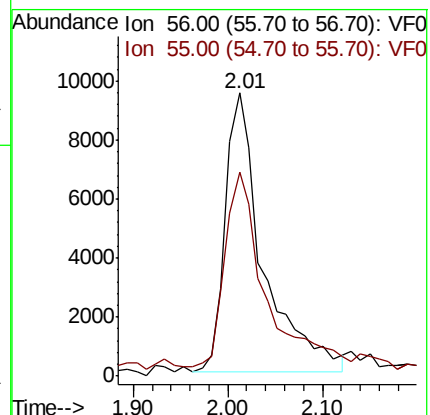
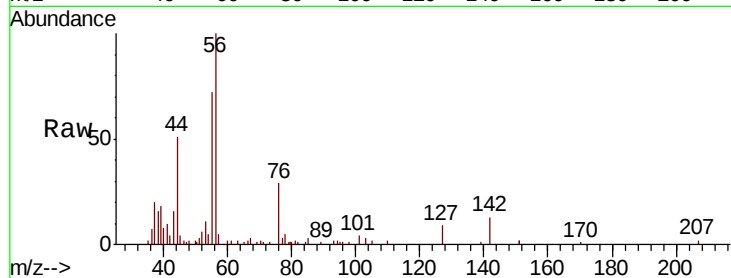
VSTDCCC050

Tot Ion: 56 Resp: 26212

Ion Ratio Lower Upper

56 100

55 72.2 61.2 91.8



#14

Allyl chloride

Concen: 43.130 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

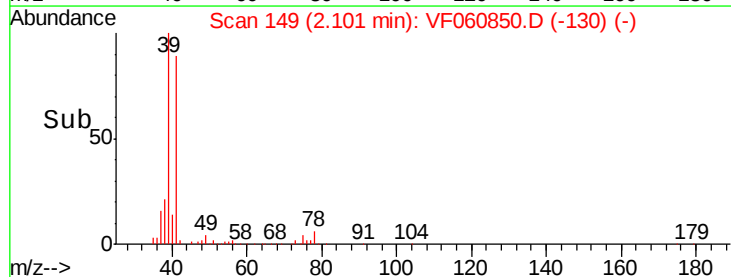
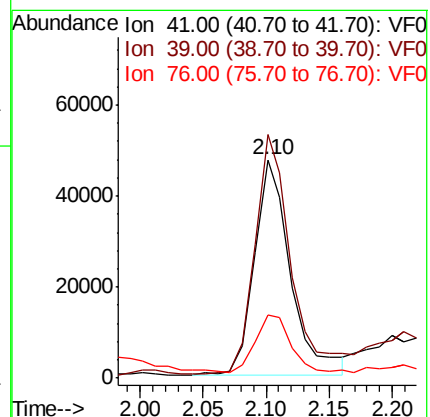
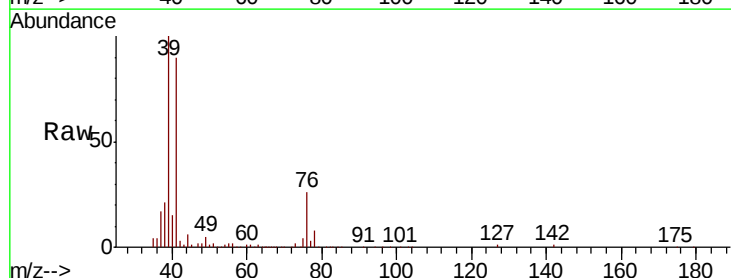
Tgt Ion: 41 Resp: 94783

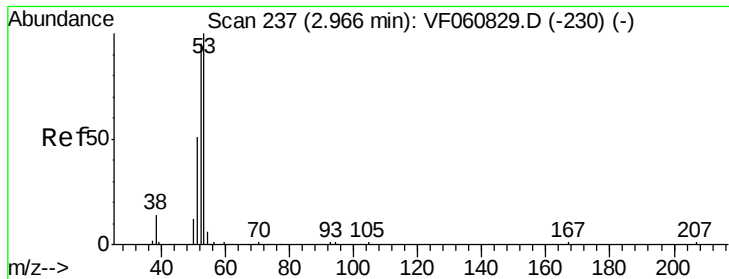
Ion Ratio Lower Upper

41 100

39 111.4 91.7 137.5

76 28.8 23.5 35.3





#15

Acrylonitrile

Concen: 238.810 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

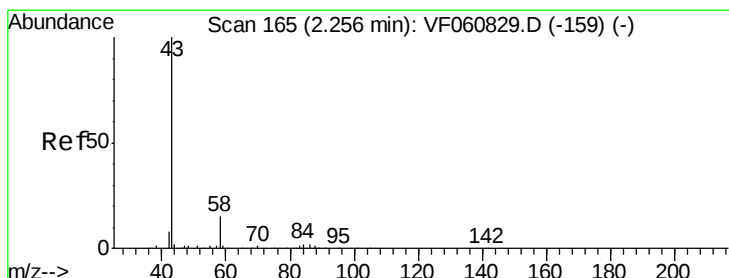
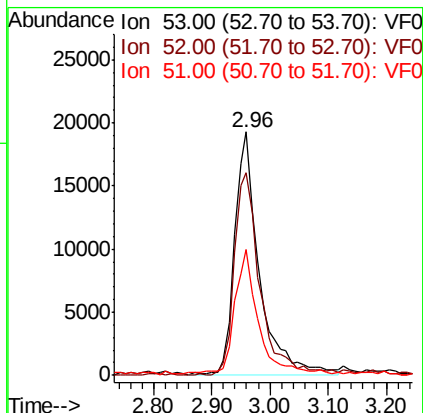
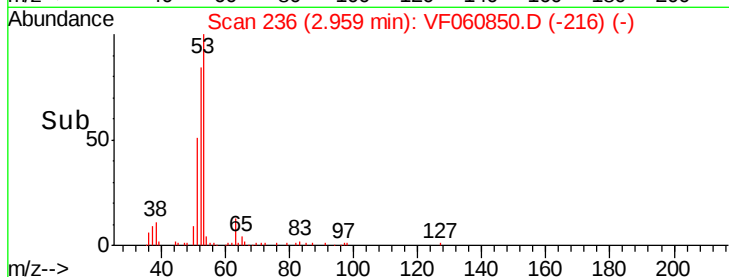
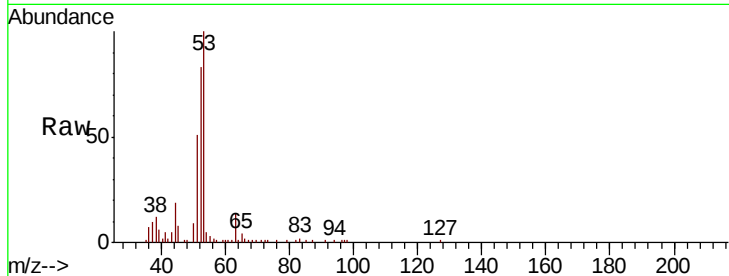
Tot Ion: 53 Resp: 57571

Ion Ratio Lower Upper

53 100

52 83.0 76.5 114.7

51 51.5 40.7 61.1



#16

Acetone

Concen: 293.160 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060850.D

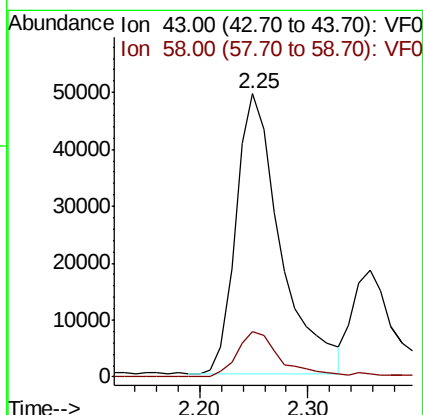
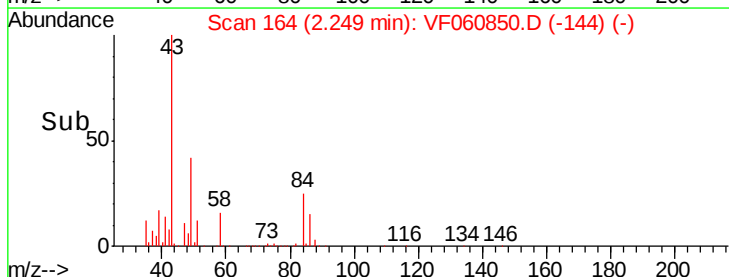
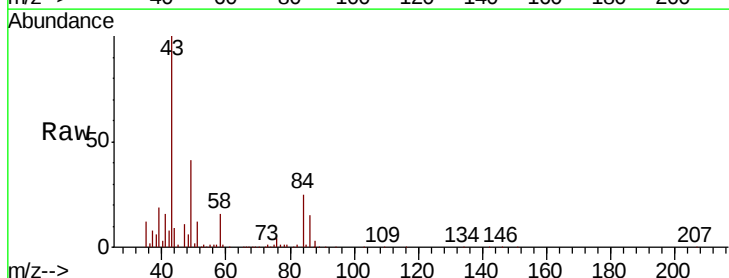
Acq: 28 Nov 2018 11:04

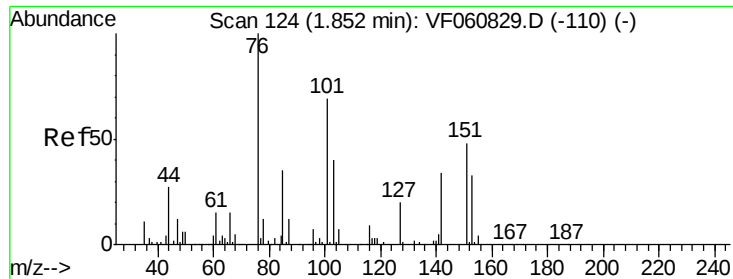
Tgt Ion: 43 Resp: 141810

Ion Ratio Lower Upper

43 100

58 15.8 11.4 17.2

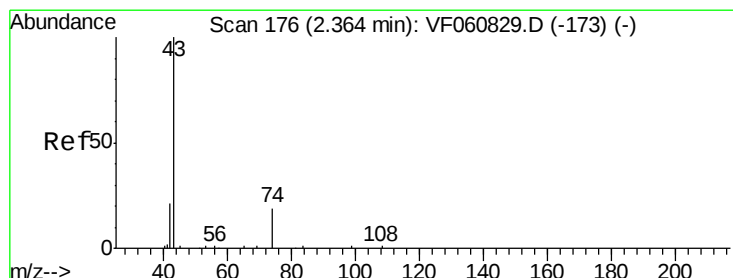
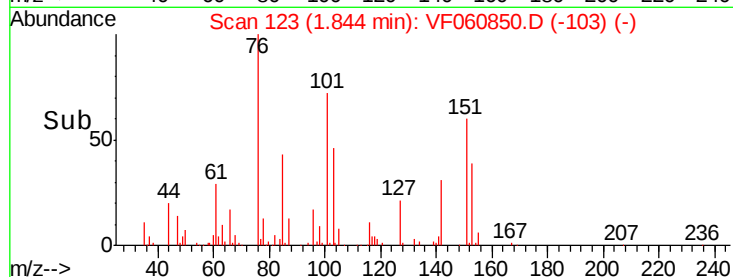
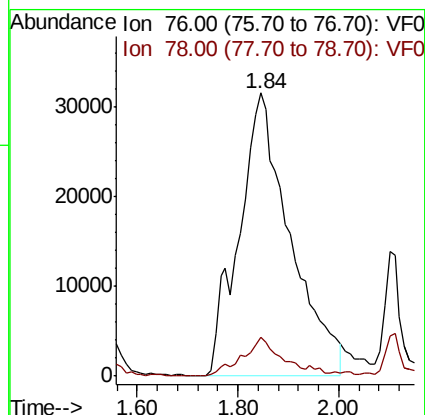
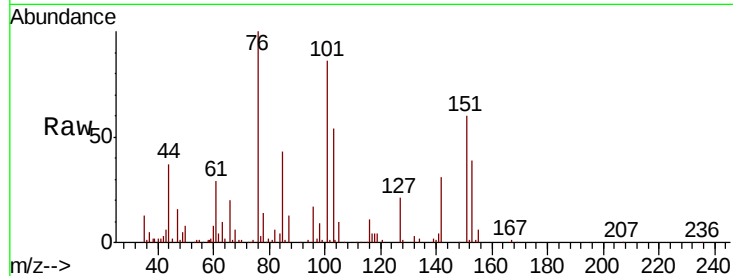




#17
Carbon Disulfide
Concen: 47.176 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

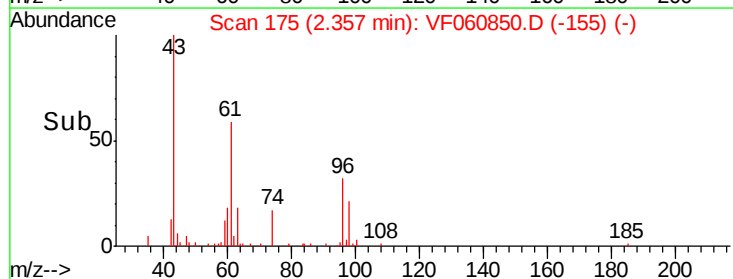
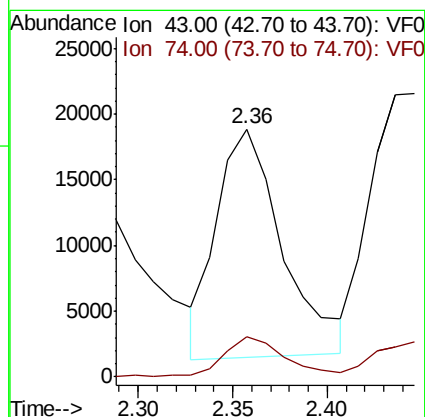
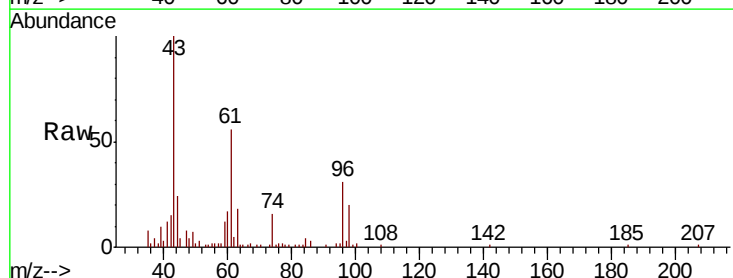
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

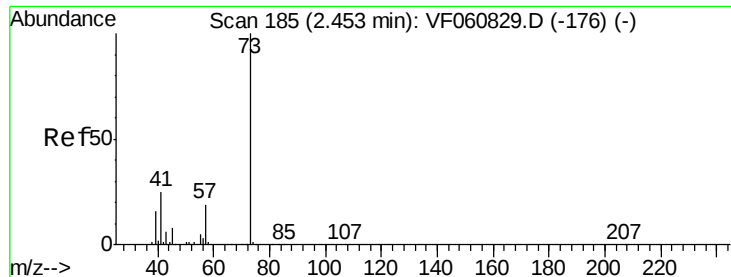
Tot Ion: 76 Resp: 223025
Ion Ratio Lower Upper
76 100
78 13.6 10.2 15.2



#18
Methyl Acetate
Concen: 51.826 ug/l
RT: 2.36 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 43 Resp: 42010
Ion Ratio Lower Upper
43 100
74 16.4 13.3 19.9

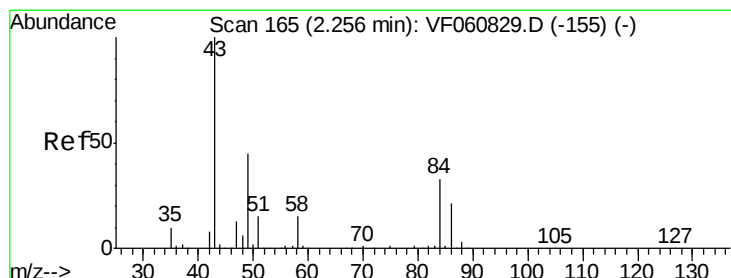
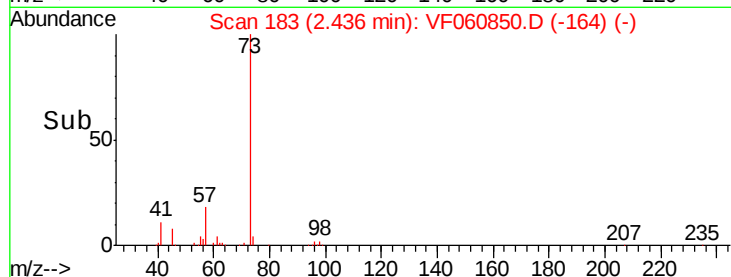
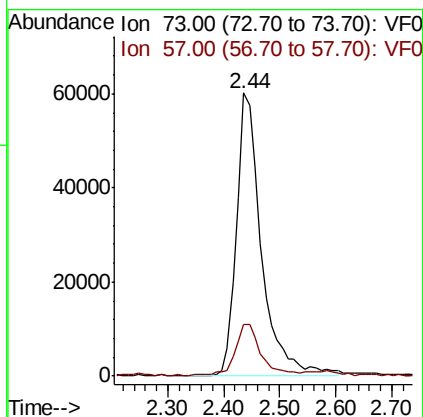
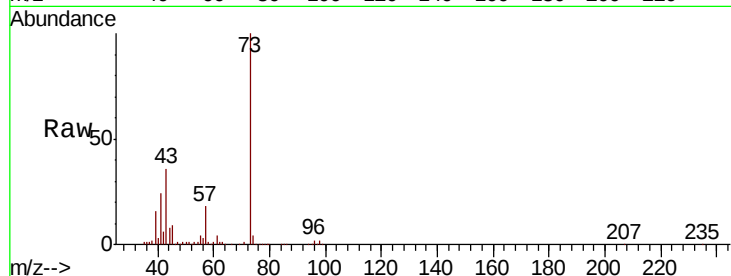




#19
Methyl tert-butyl Ether
Concen: 47.134 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

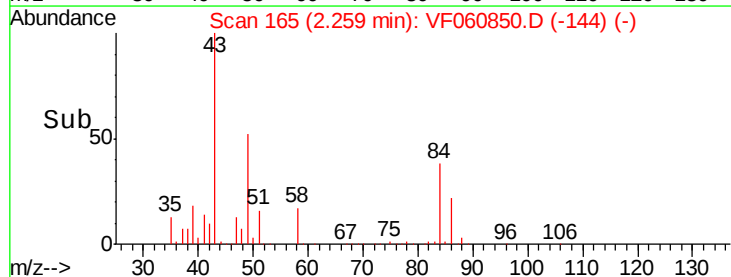
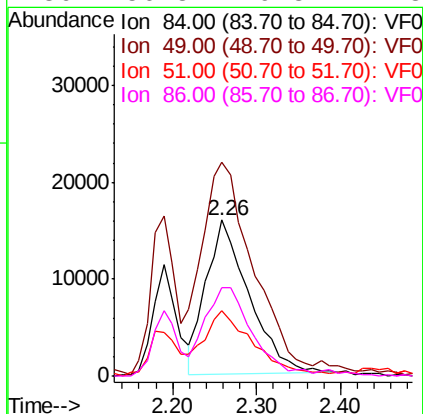
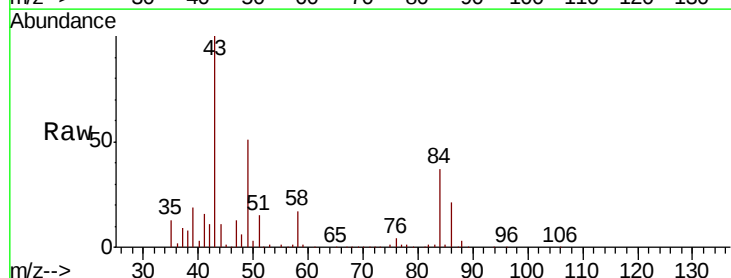
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

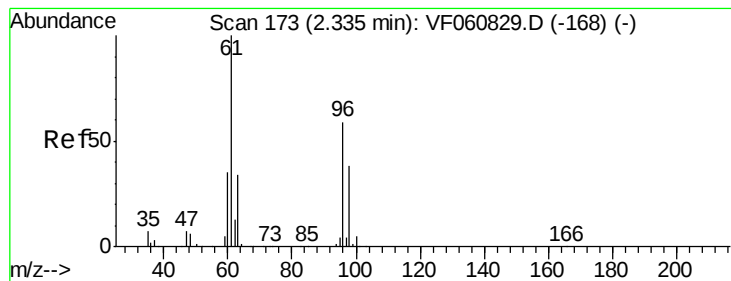
Tot Ion: 73 Resp: 187175
Ion Ratio Lower Upper
73 100
57 18.5 15.3 22.9



#20
Methylene Chloride
Concen: 31.801 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 84 Resp: 56433
Ion Ratio Lower Upper
84 100
49 137.3 111.3 166.9
51 41.6 38.0 57.0
86 56.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 36.326 ug/l

RT: 2.32 min Scan# 171

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

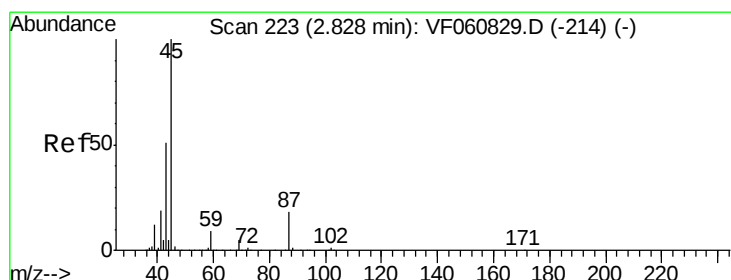
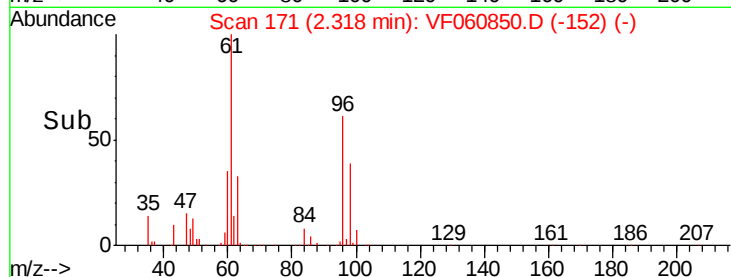
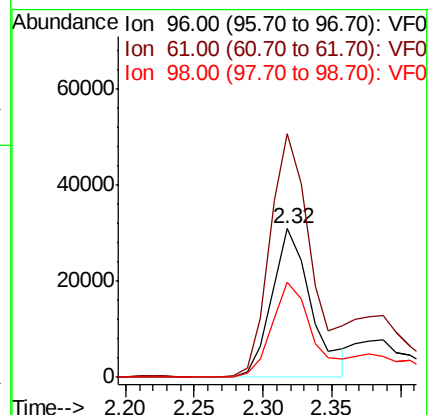
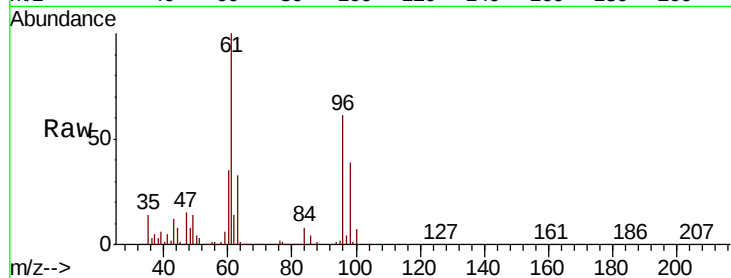
Tot Ion: 96 Resp: 61747

Ion Ratio Lower Upper

96 100

61 164.1 134.5 201.7

98 64.3 51.6 77.4



#22

Diisopropyl ether

Concen: 48.411 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Tgt Ion: 45 Resp: 289586

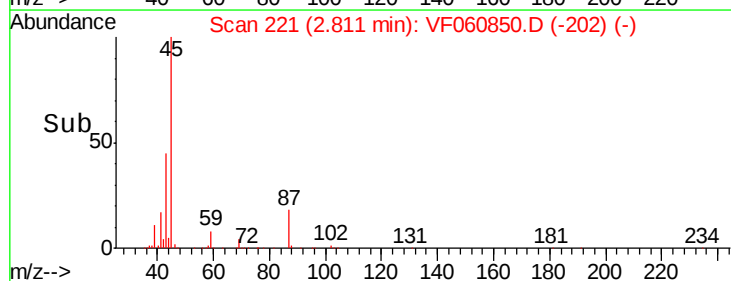
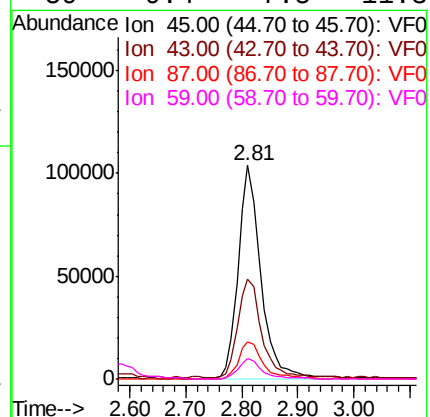
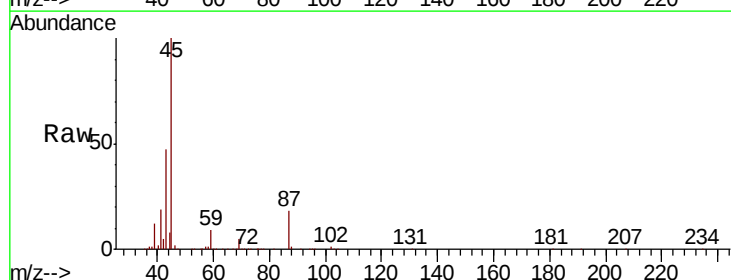
Ion Ratio Lower Upper

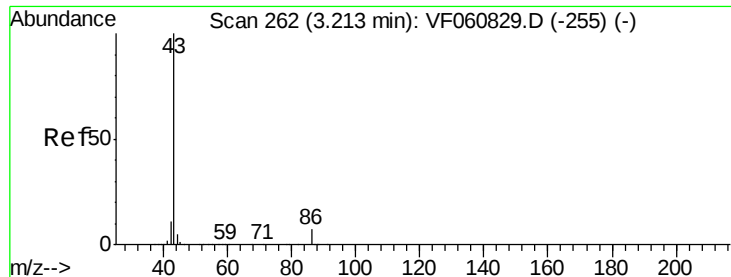
45 100

43 46.6 41.0 61.6

87 17.6 14.6 22.0

59 9.4 7.5 11.3





#23

Vinyl Acetate

Concen: 247.597 ug/l

RT: 3.21 min Scan# 261

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

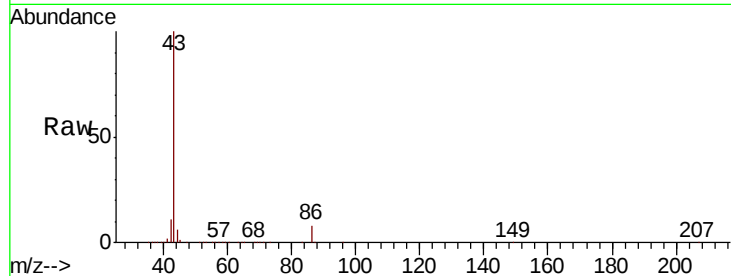
VSTDCCC050

Tot Ion: 43 Resp: 677021

Ion Ratio Lower Upper

43 100

86 7.9 5.4 8.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

300000

250000

200000

150000

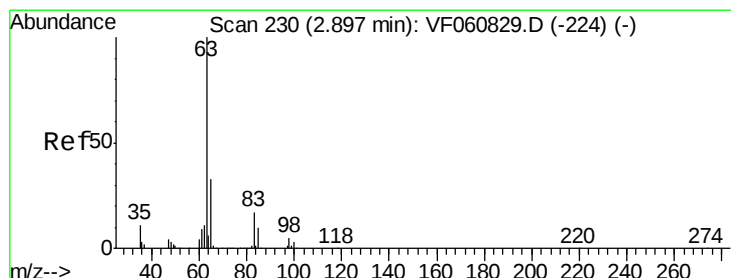
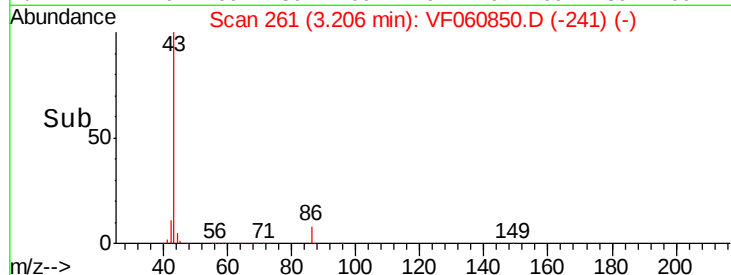
100000

50000

0

3.00 3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 47.384 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

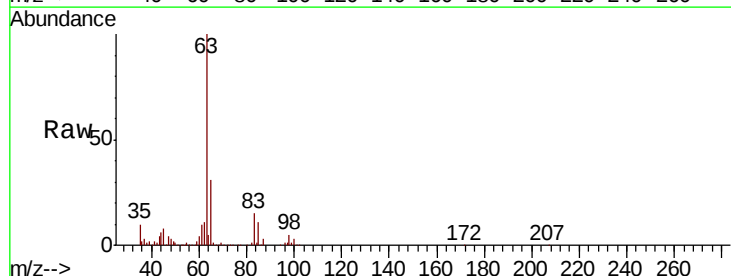
Tgt Ion: 63 Resp: 168639

Ion Ratio Lower Upper

63 100

98 5.5 2.7 8.1

100 3.1 1.5 4.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

80000

60000

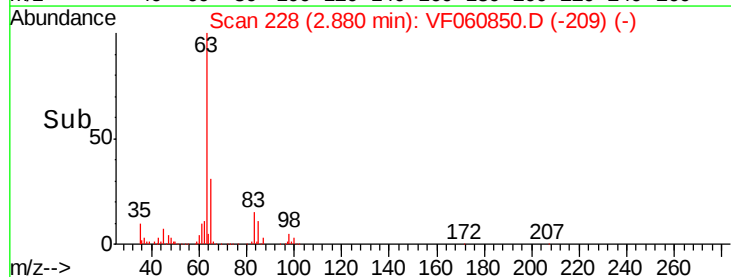
40000

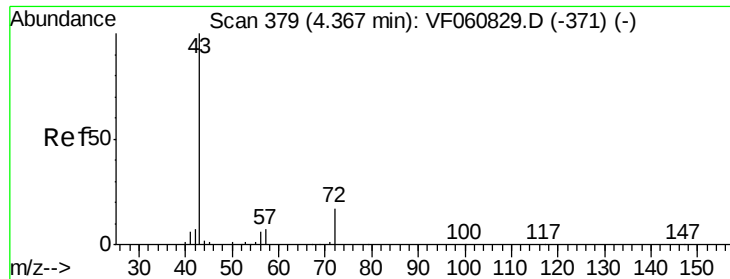
20000

0

2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 262.865 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

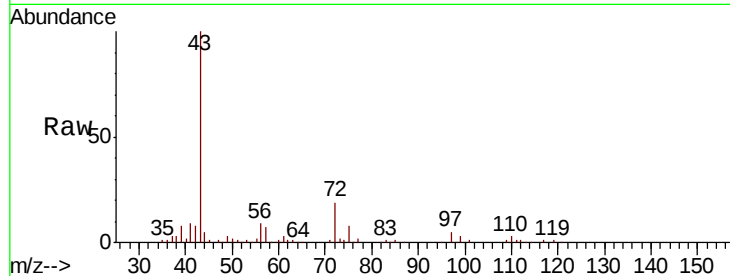
VSTDCCC050

Tot Ion: 43 Resp: 219934

Ion Ratio Lower Upper

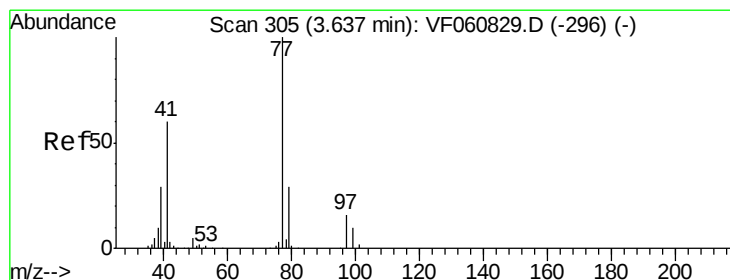
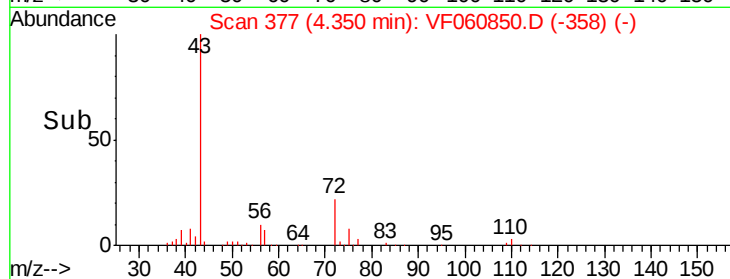
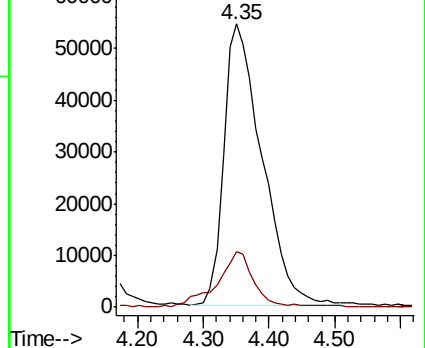
43 100

72 19.5 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 43.425 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.03 min

Lab File: VF060850.D

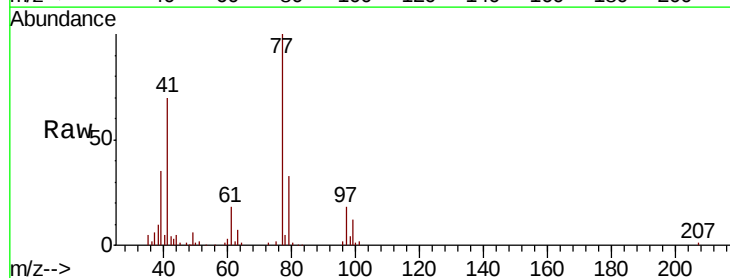
Acq: 28 Nov 2018 11:04

Tgt Ion: 77 Resp: 100196

Ion Ratio Lower Upper

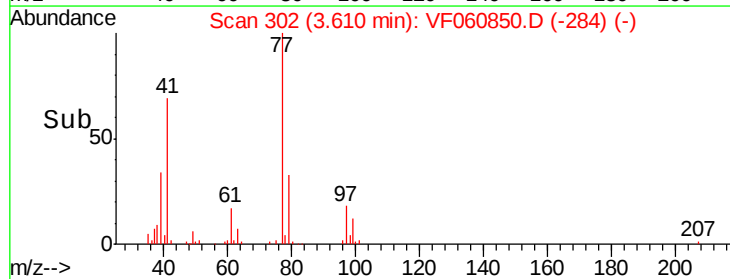
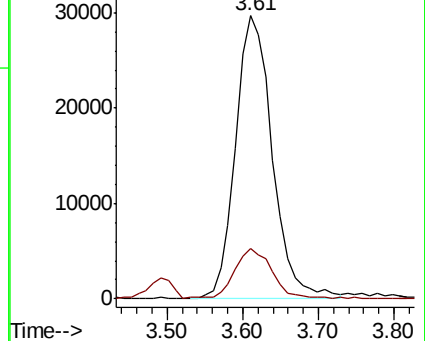
77 100

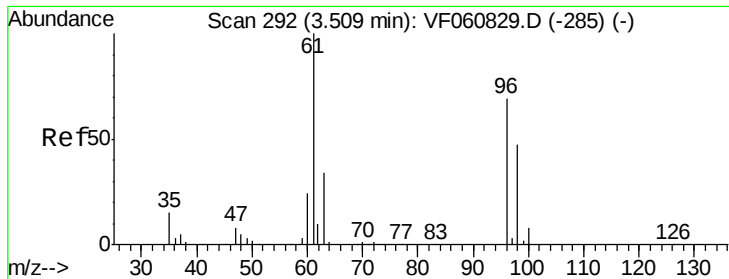
97 17.8 8.6 25.8



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



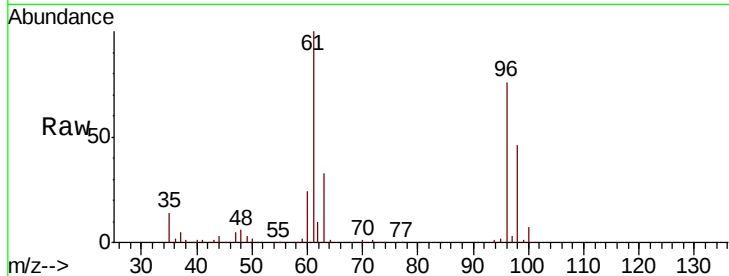


#27

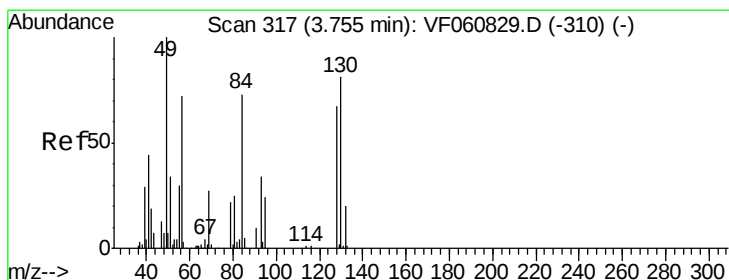
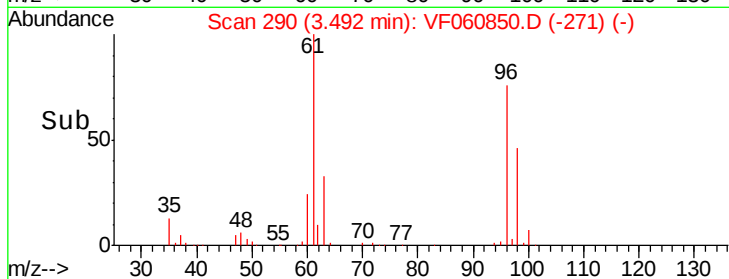
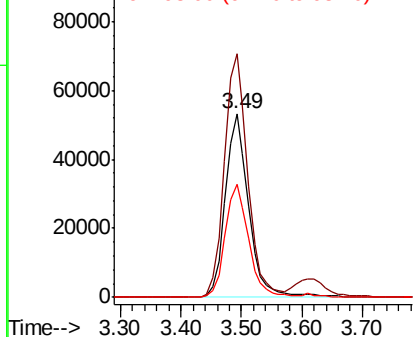
cis-1,2-Dichloroethene
Concen: 51.636 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.3	0.0	290.6
98	61.4	0.0	137.8



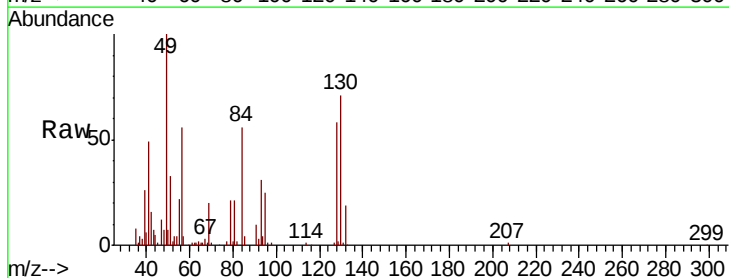
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



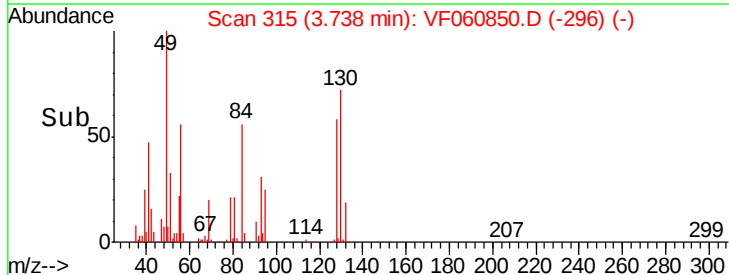
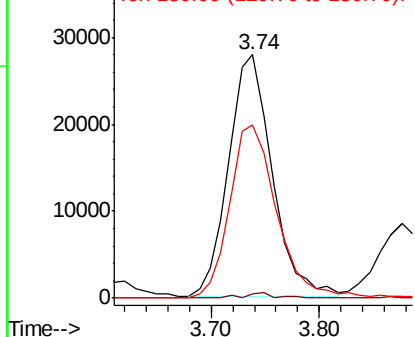
#28

Bromochloromethane
Concen: 45.838 ug/l
RT: 3.74 min Scan# 315
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	71.4	64.2	96.4



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

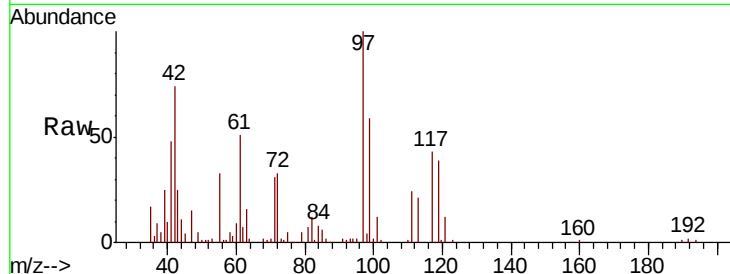




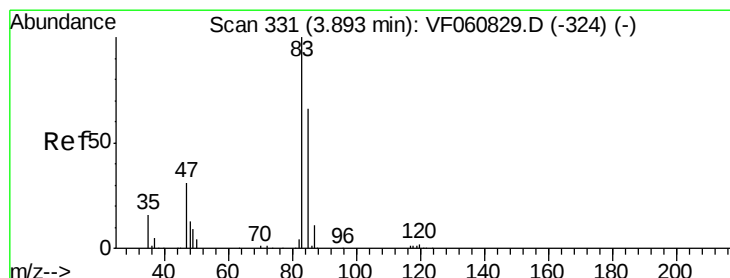
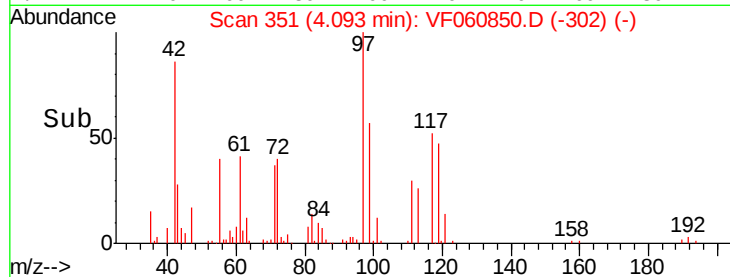
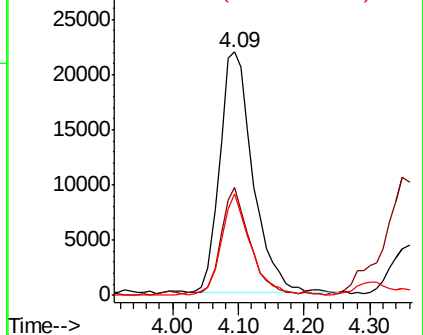
#29
Tetrahydrofuran
Concen: 217.461 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 42 Resp: 77124
Ion Ratio Lower Upper
42 100
72 37.3 31.9 47.9
71 36.8 28.7 43.1

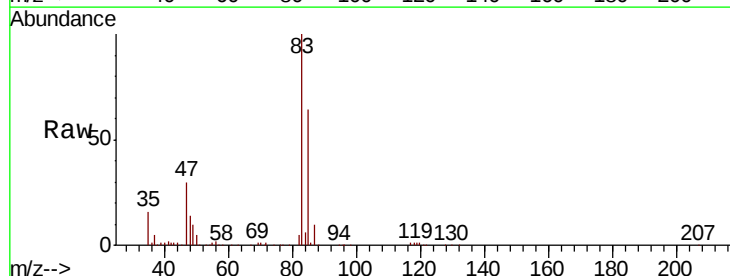


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

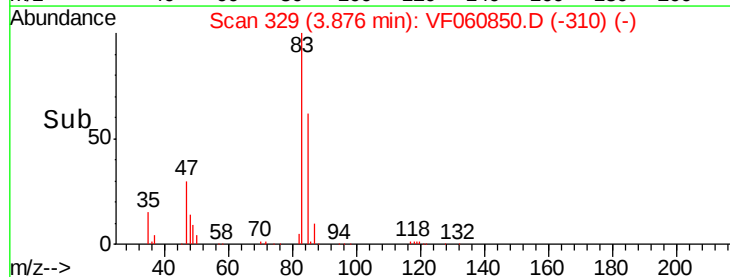
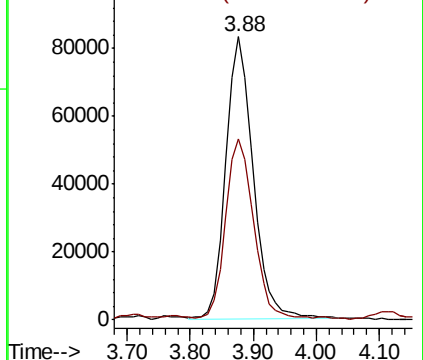


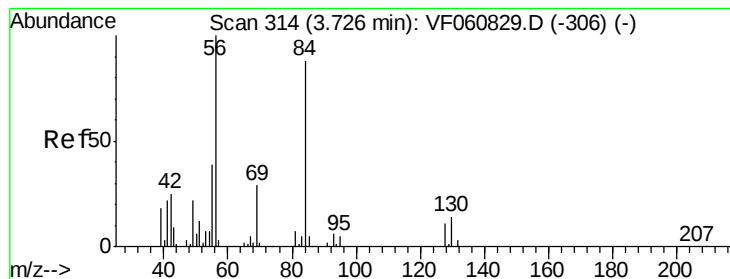
#30
Chloroform
Concen: 45.741 ug/l
RT: 3.88 min Scan# 329
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 83 Resp: 250543
Ion Ratio Lower Upper
83 100
85 64.0 53.4 80.2



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





#31

Cyclohexane

Concen: 23.681 ug/l

RT: 3.71 min Scan# 312

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

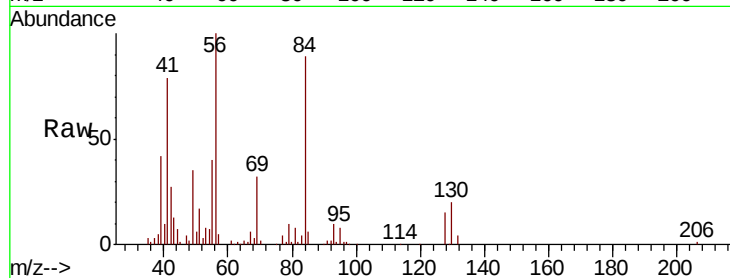
Tot Ion: 56 Resp: 87466

Ion Ratio Lower Upper

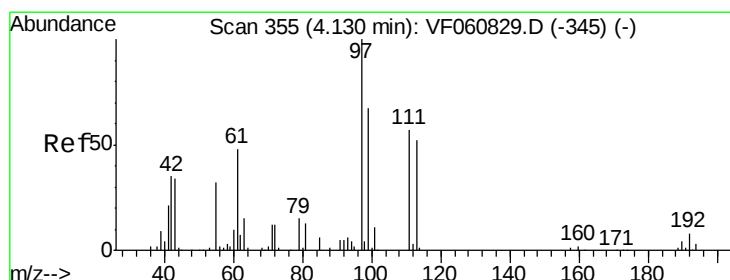
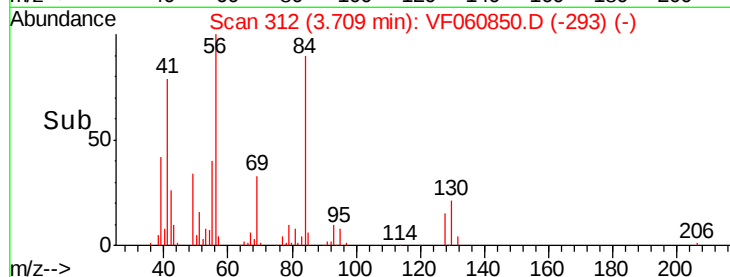
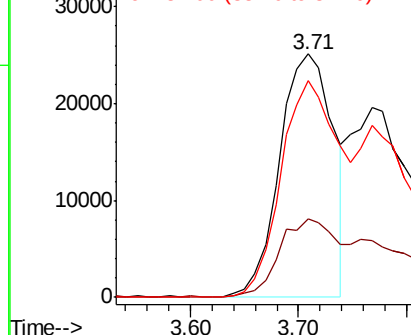
56 100

69 32.4 23.0 34.4

84 89.2 70.4 105.6



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: 40.280 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

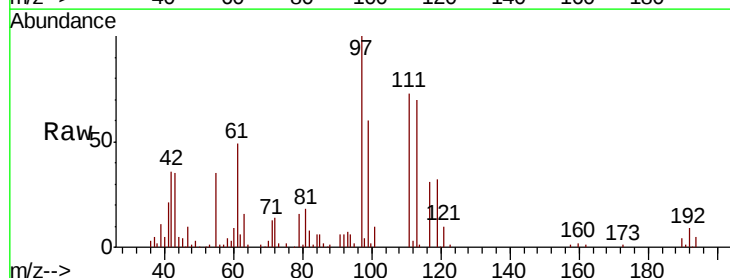
Tgt Ion: 97 Resp: 153012

Ion Ratio Lower Upper

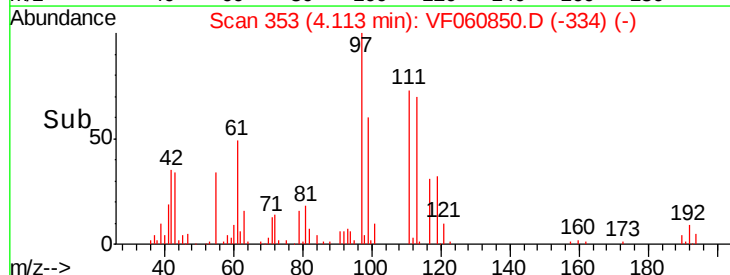
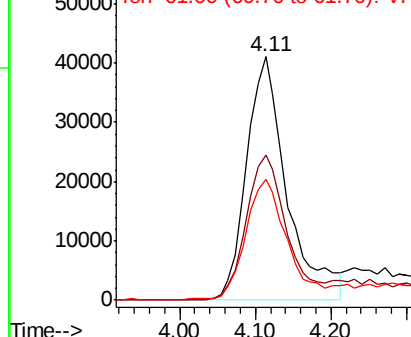
97 100

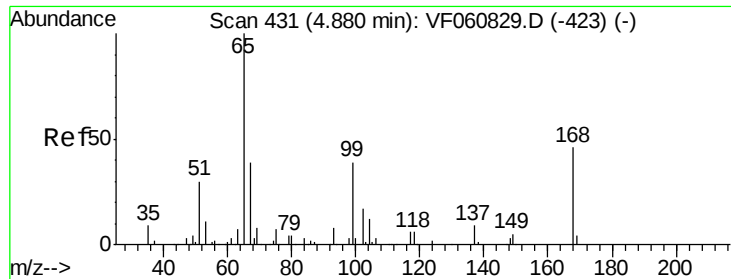
99 59.6 53.5 80.3

61 49.4 38.6 58.0



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: 47.026 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

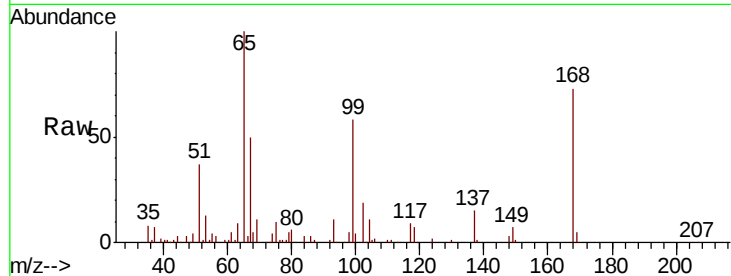
VSTDCCC050

Tot Ion: 65 Resp: 123358

Ion Ratio Lower Upper

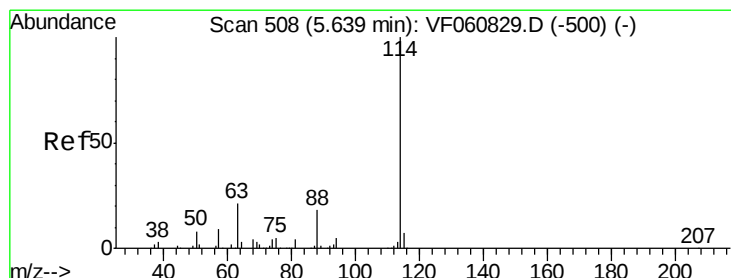
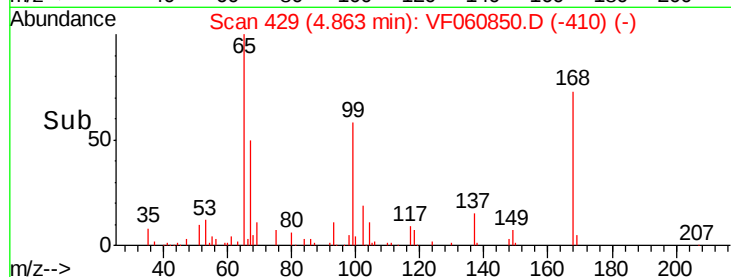
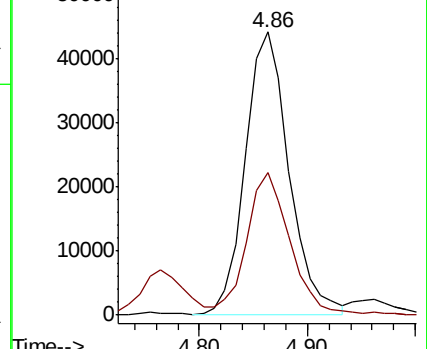
65 100

67 50.2 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.03 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

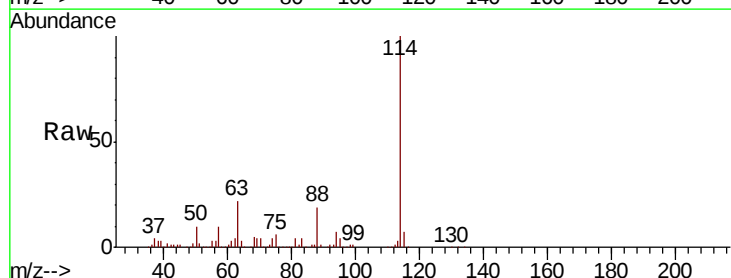
Tgt Ion: 114 Resp: 350276

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.6

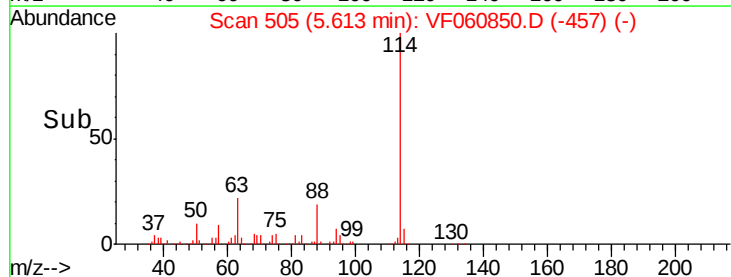
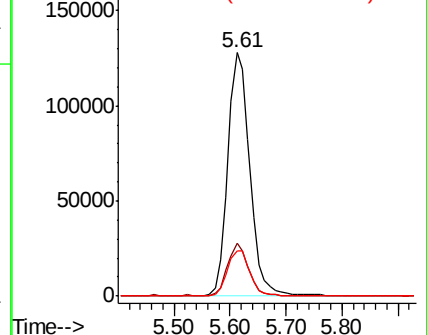
88 18.8 0.0 36.6

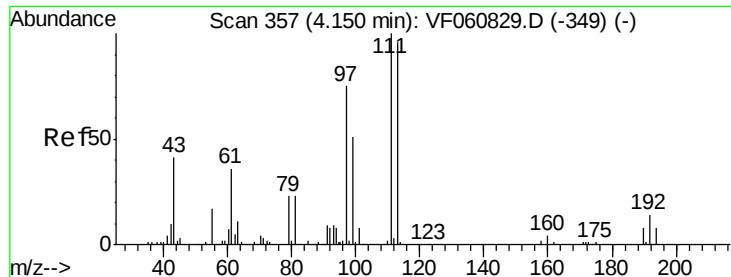


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

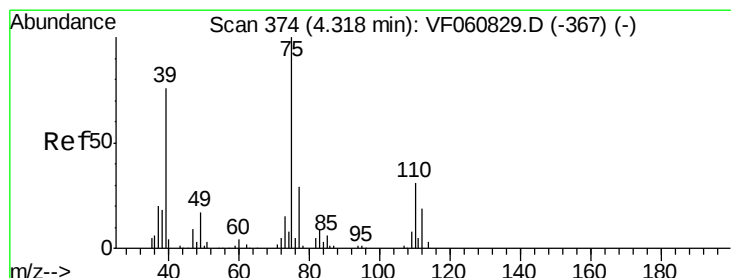
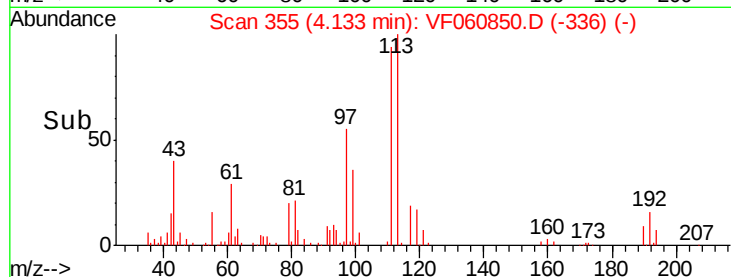
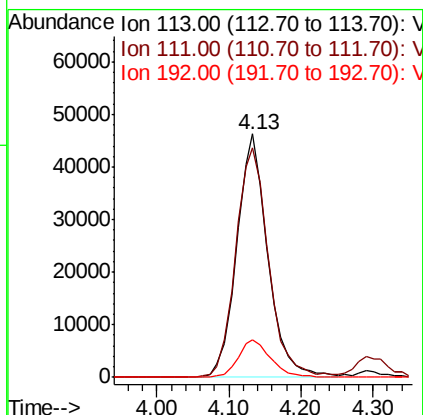
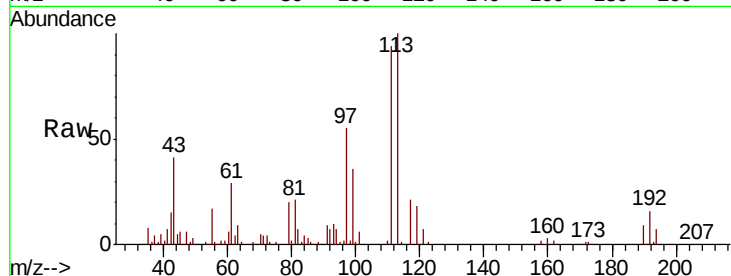




#35
 Dibromofluoromethane
 Concen: 49.956 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

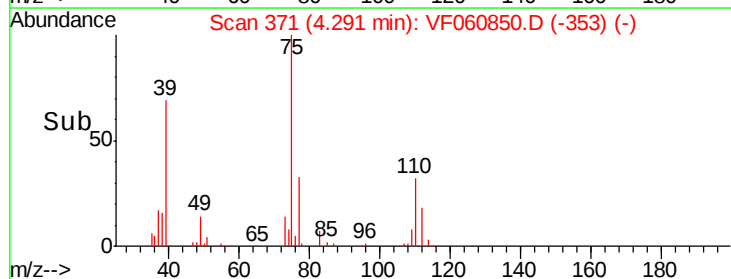
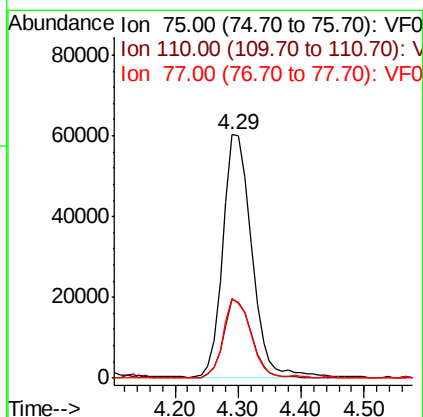
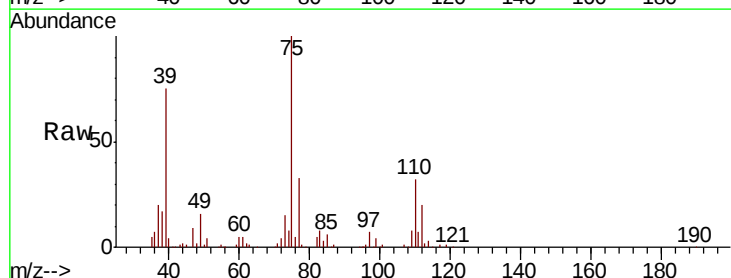
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

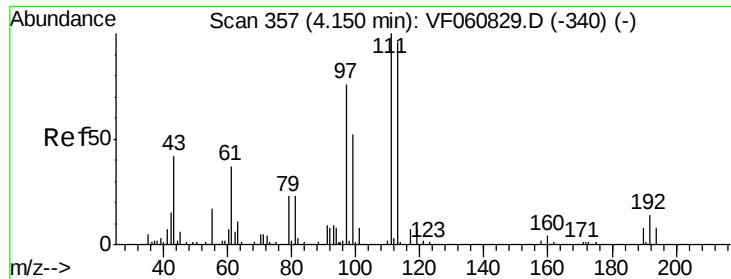
Tot Ion	Ratio	Lower	Upper
113	100		
111	94.3	83.0	124.6
192	15.6	12.3	18.5



#36
 1,1-Dichloropropene
 Concen: 49.589 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.03 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.0	15.6	46.8
77	32.8	23.4	35.0

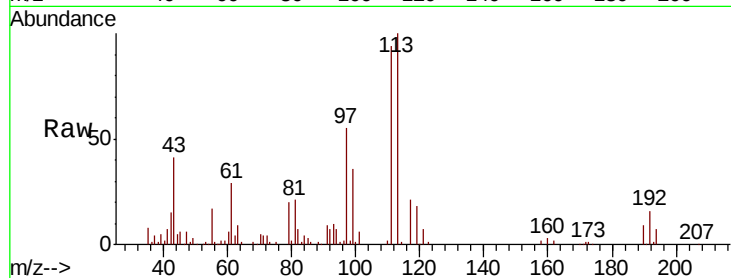




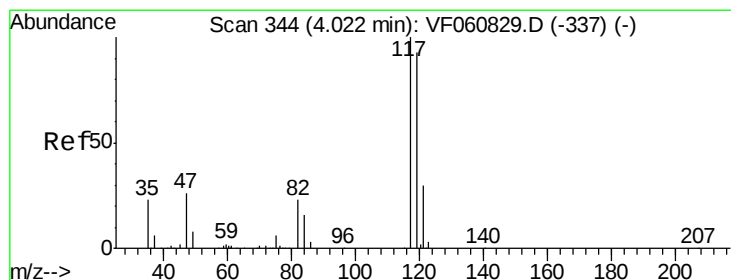
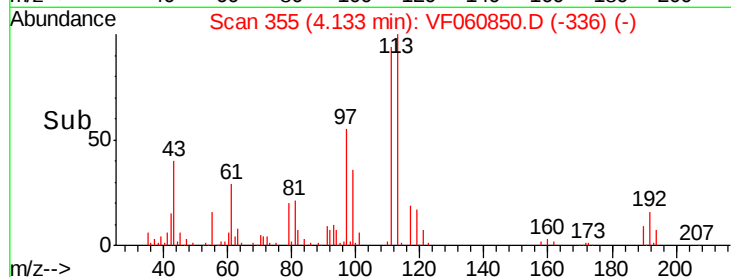
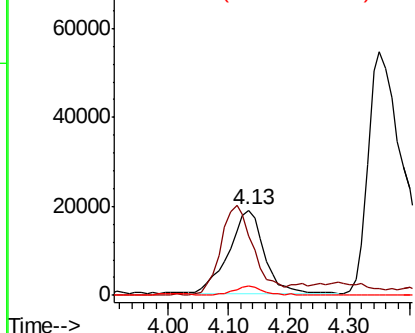
#37
Ethyl Acetate
Concen: 48.230 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 76147
Ion Ratio Lower Upper
43 100
61 69.4 68.6 103.0
70 11.4 9.0 13.4

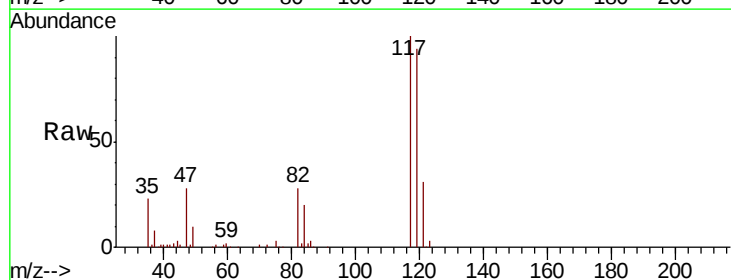


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

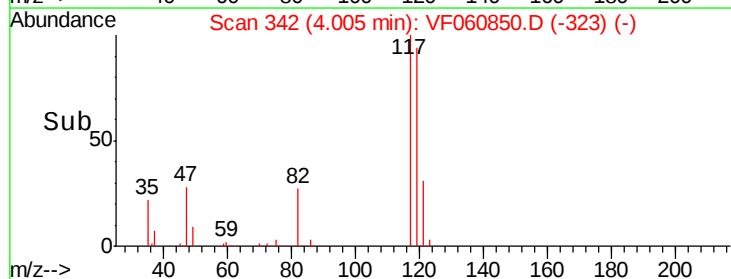
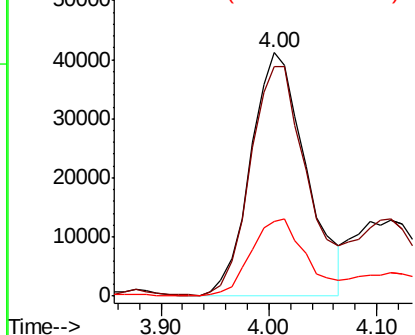


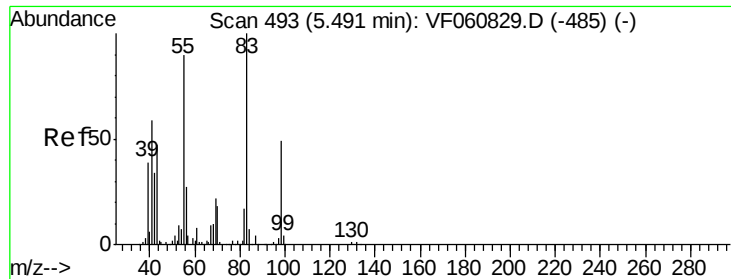
#38
Carbon Tetrachloride
Concen: 42.756 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 117 Resp: 146720
Ion Ratio Lower Upper
117 100
119 94.3 74.4 111.6
121 30.8 23.5 35.3



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

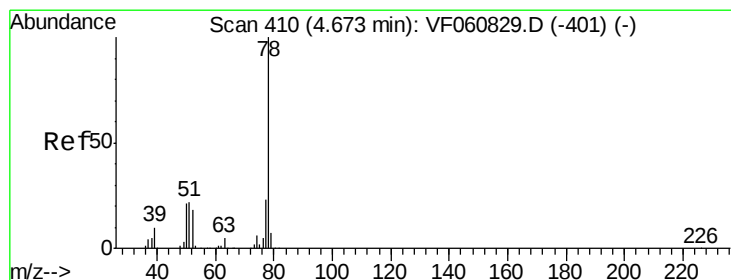
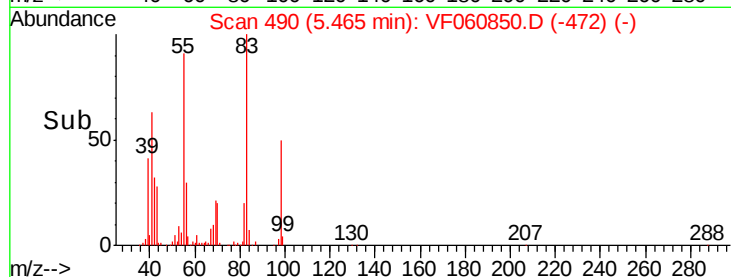
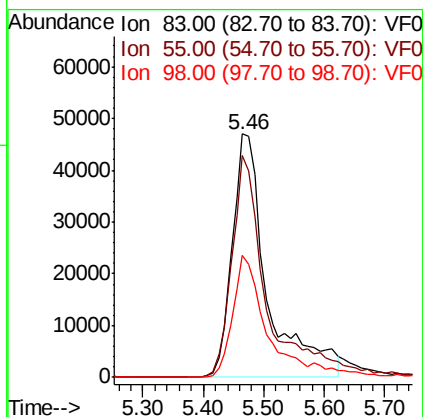
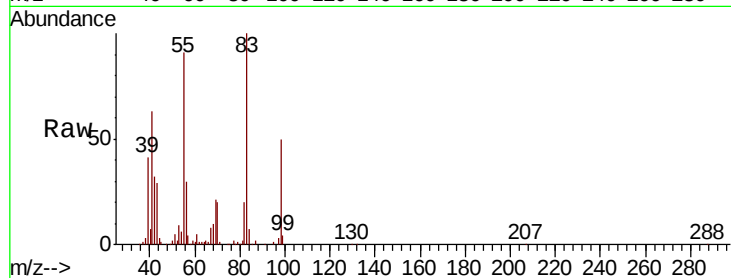




#39
Methvlcvclohexane
Concen: 47.100 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

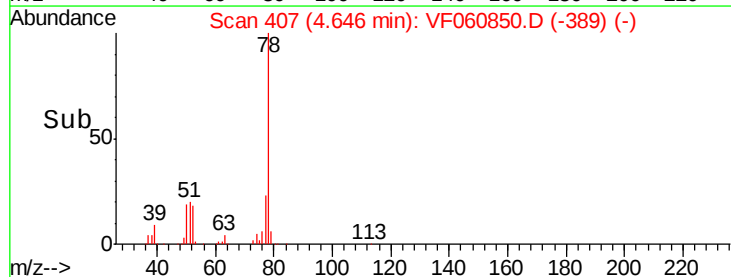
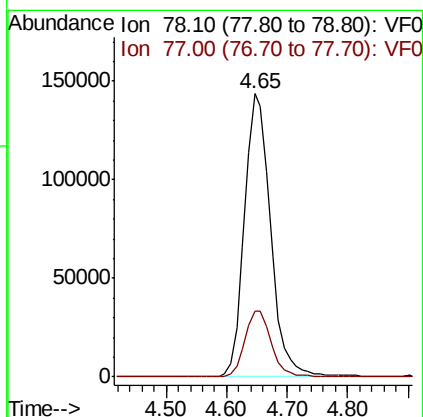
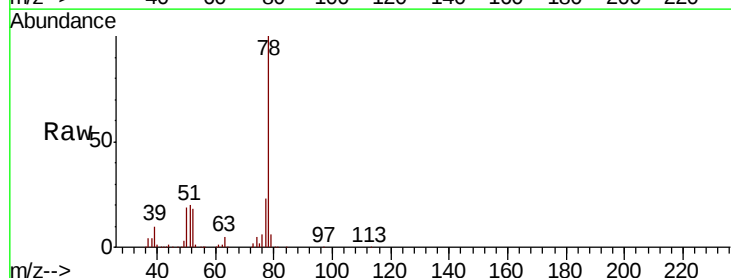
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

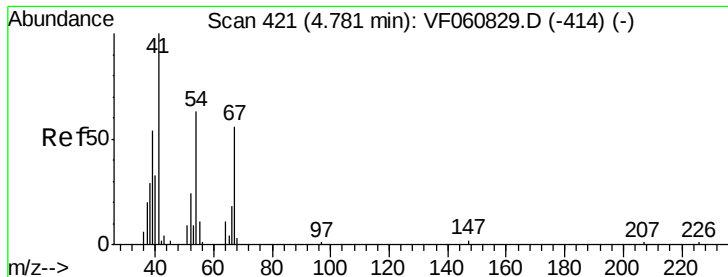
Tot Ion: 83 Resp: 191771
Ion Ratio Lower Upper
83 100
55 91.0 72.1 108.1
98 50.3 39.1 58.7



#40
Benzene
Concen: 50.288 ug/l
RT: 4.65 min Scan# 407
Delta R.T. -0.03 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 78 Resp: 431621
Ion Ratio Lower Upper
78 100
77 23.4 18.7 28.1





#41

Methacrylonitrile

Concen: 50.023 ug/l

RT: 4.76 min Scan# 419

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 40889

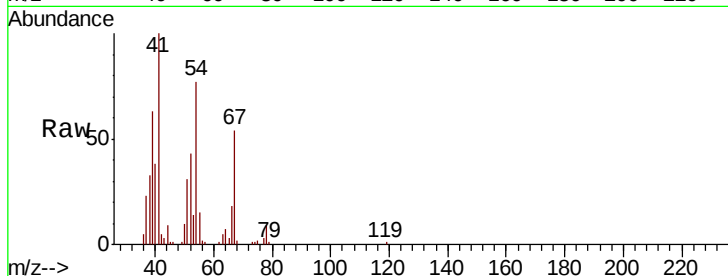
Ion Ratio Lower Upper

41 100

39 62.8 53.0 79.6

67 54.0 43.8 65.6

52 43.4 37.8 56.8

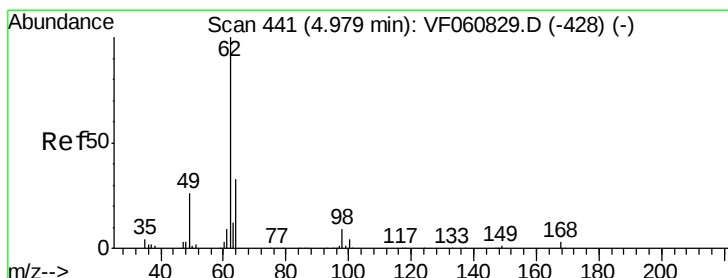
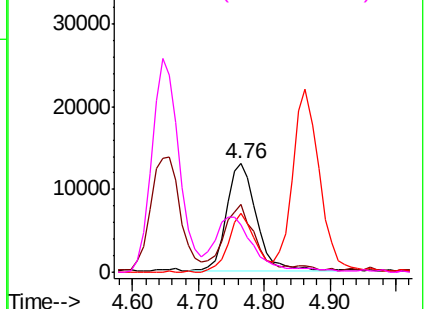
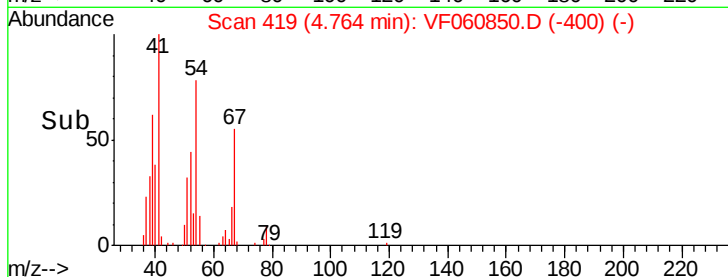


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 46.329 ug/l

RT: 4.96 min Scan# 439

Delta R.T. -0.02 min

Lab File: VF060850.D

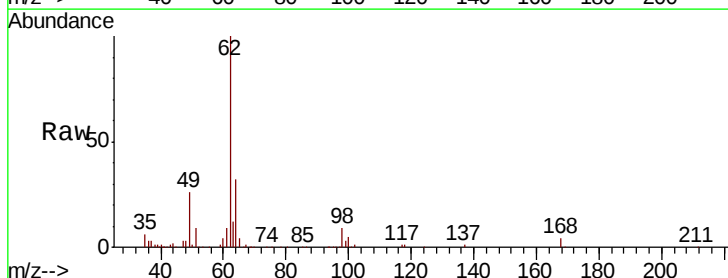
Acq: 28 Nov 2018 11:04

Tgt Ion: 62 Resp: 145173

Ion Ratio Lower Upper

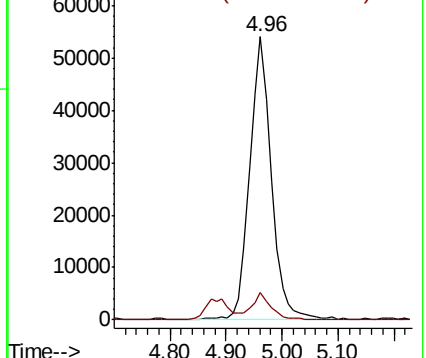
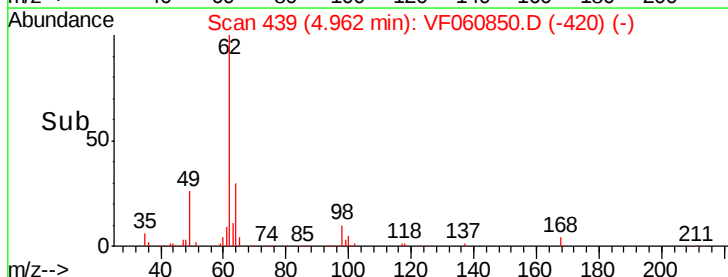
62 100

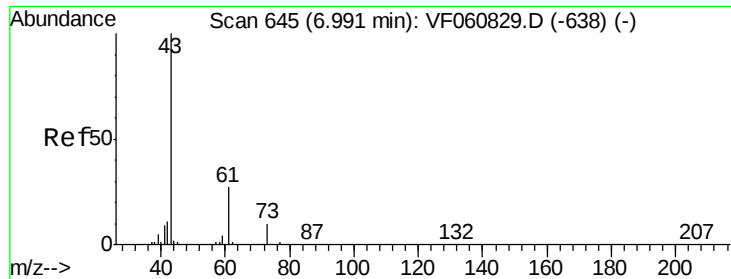
98 9.5 0.0 17.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



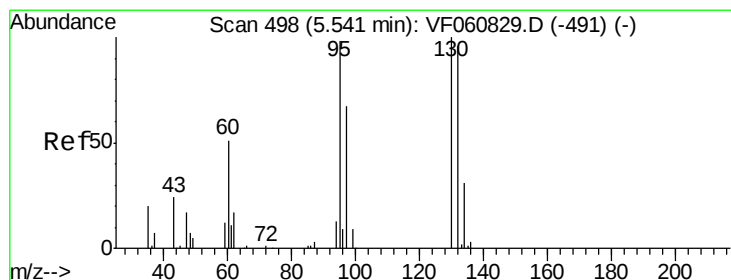
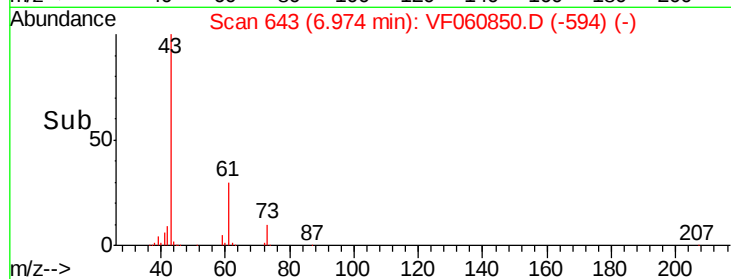
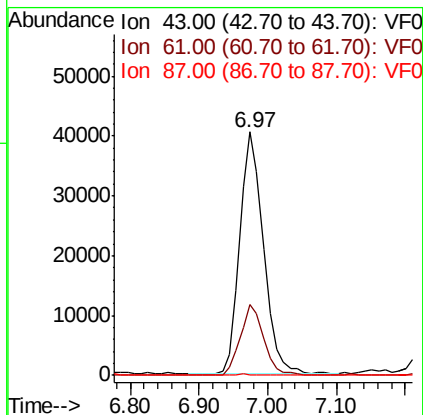
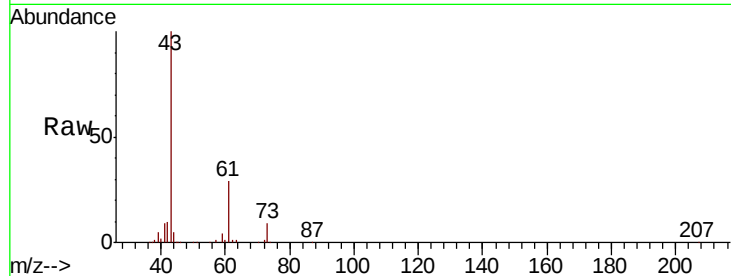


#43

Isopropyl Acetate
 Concen: 49.853 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

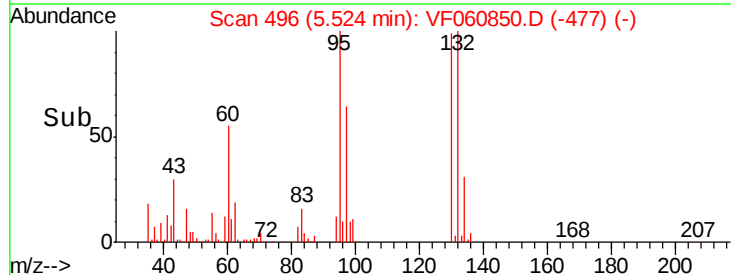
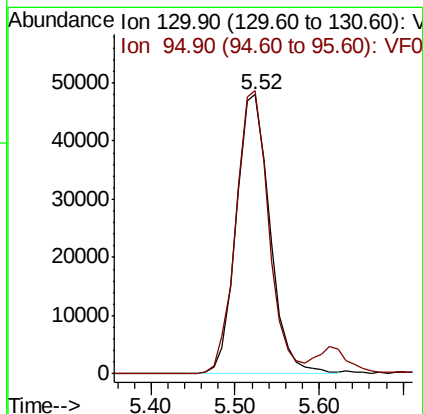
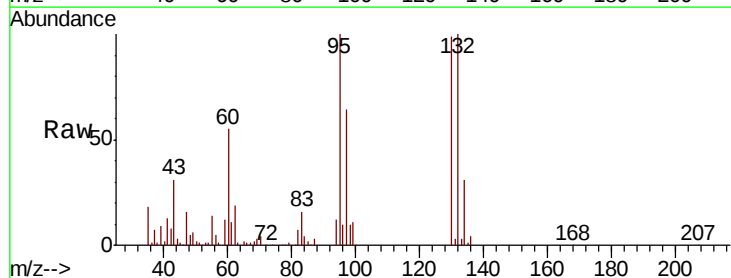
Tot Ion: 43 Resp: 97127
 Ion Ratio Lower Upper
 43 100
 61 28.9 21.4 32.0
 87 0.4 0.2 0.4#

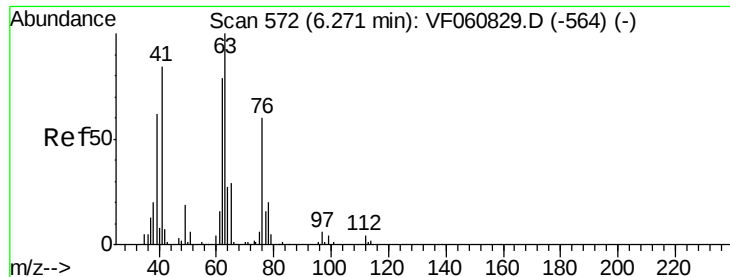


#44

Trichloroethene
 Concen: 47.809 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion:130 Resp: 134170
 Ion Ratio Lower Upper
 130 100
 95 101.4 0.0 195.6

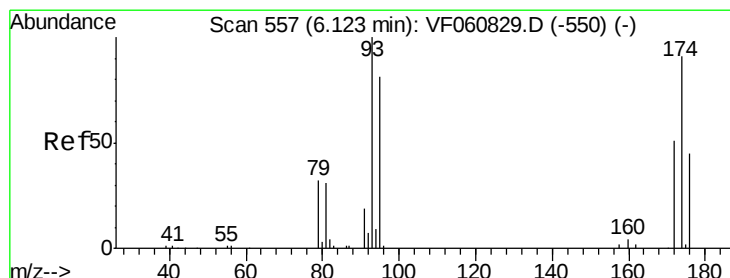
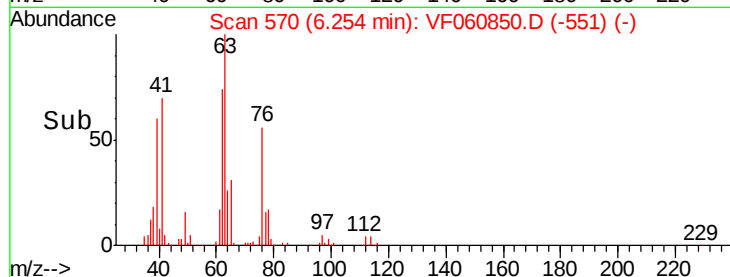
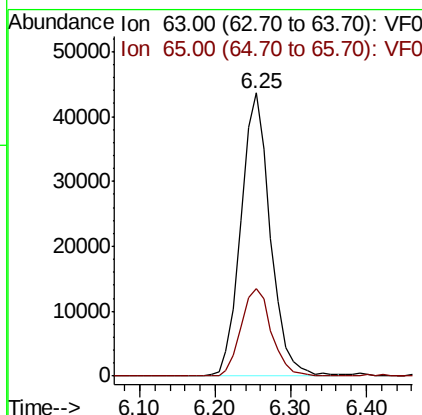
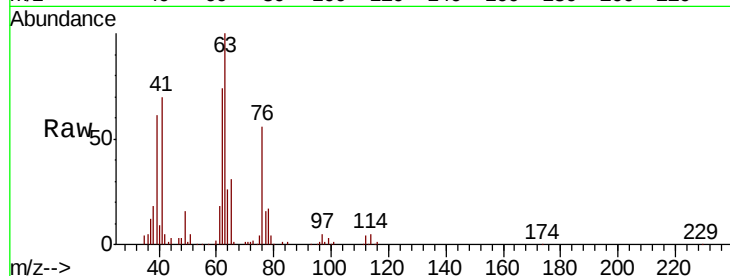




#45
 1,2-Dichloropropane
 Concen: 52.753 ug/l
 RT: 6.25 min Scan# 570
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

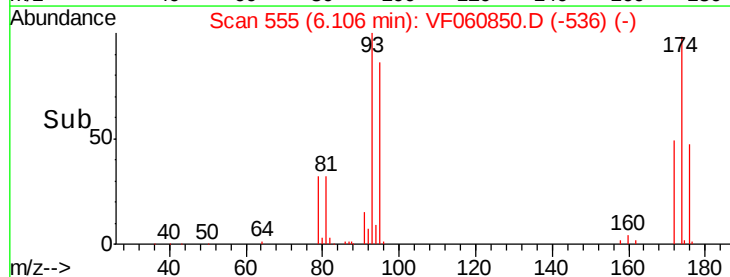
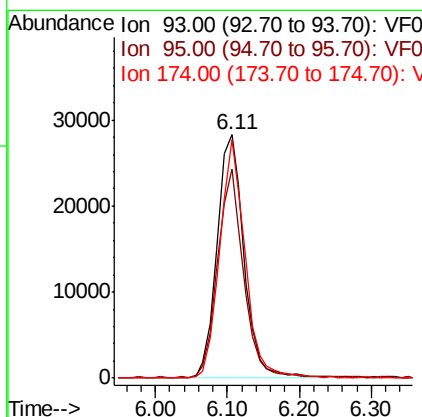
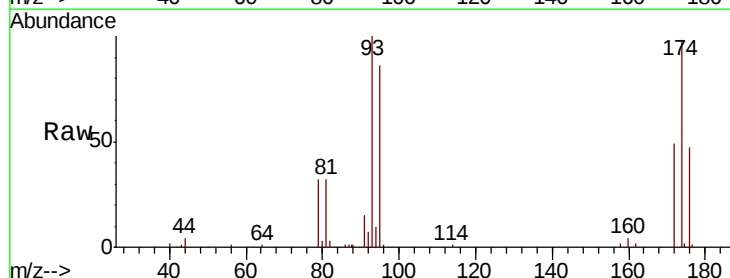
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

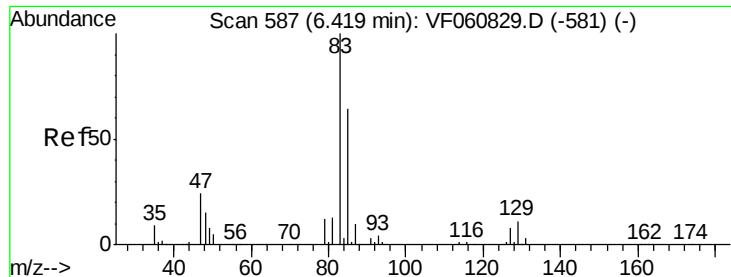
Tot Ion: 63 Resp: 117595
 Ion Ratio Lower Upper
 63 100
 65 30.8 23.2 34.8



#46
 Dibromomethane
 Concen: 48.262 ug/l
 RT: 6.11 min Scan# 555
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion: 93 Resp: 72981
 Ion Ratio Lower Upper
 93 100
 95 85.6 64.7 97.1
 174 100.0 73.0 109.6





#47

Bromodichloromethane

Concen: 48.567 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

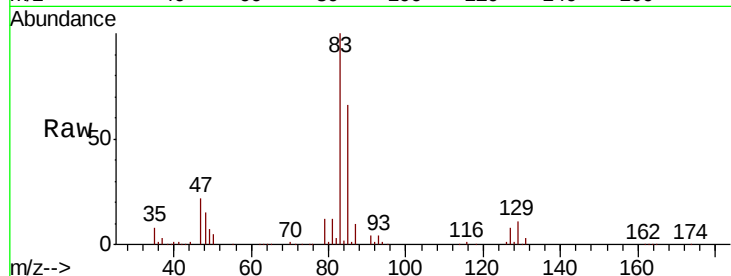
Tot Ion: 83 Resp: 195062

Ion Ratio Lower Upper

83 100

85 66.4 51.1 76.7

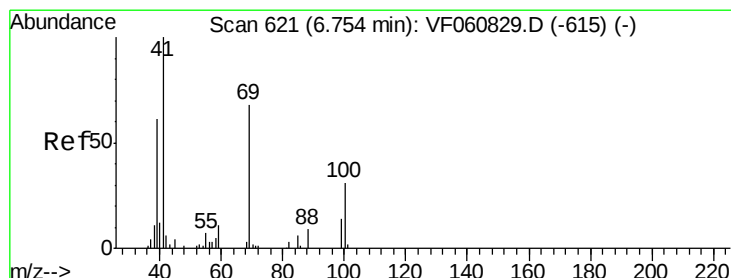
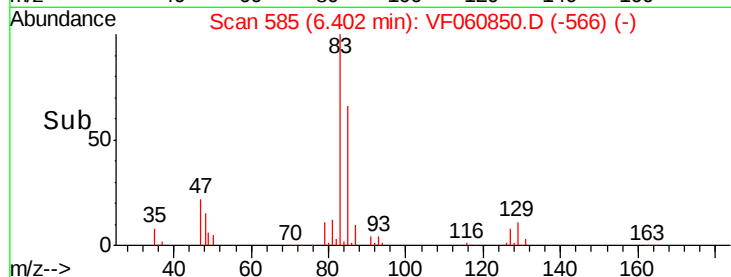
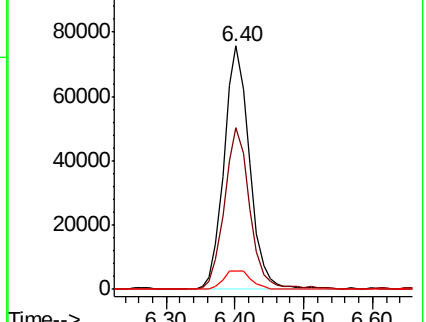
127 7.8 6.8 10.2



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: 45.750 ug/l

RT: 6.74 min Scan# 619

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

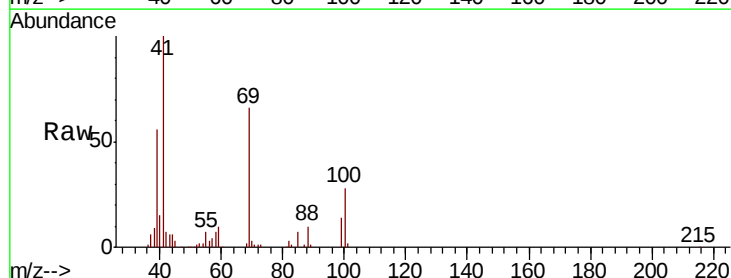
Tgt Ion: 41 Resp: 65382

Ion Ratio Lower Upper

41 100

69 65.5 53.9 80.9

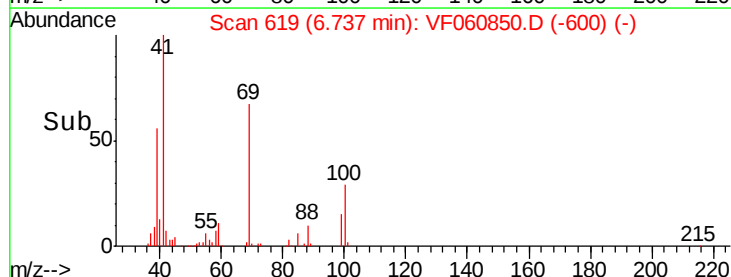
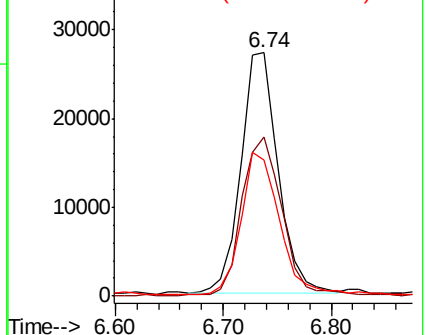
39 55.7 49.0 73.6

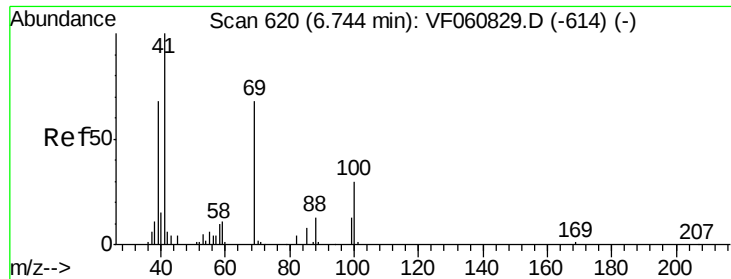


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 964.988 ug/l

RT: 6.73 min Scan# 618

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

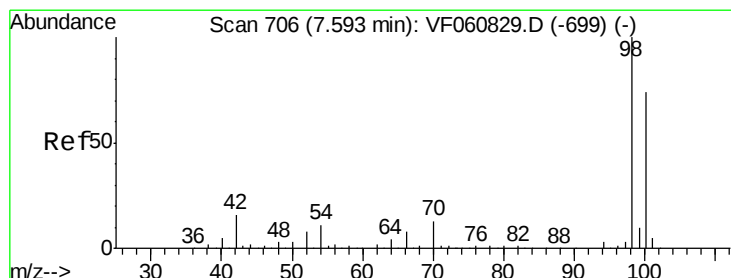
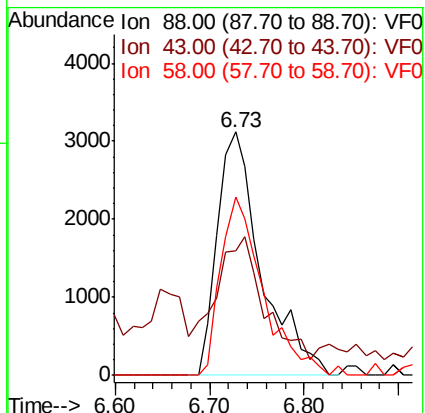
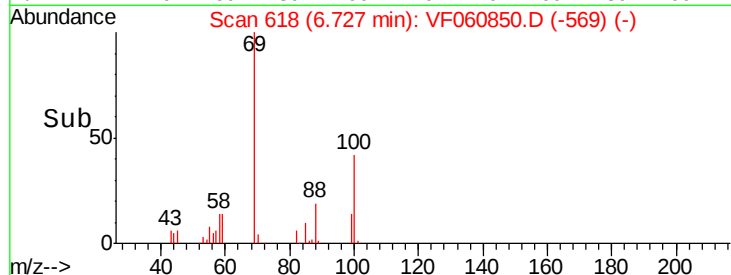
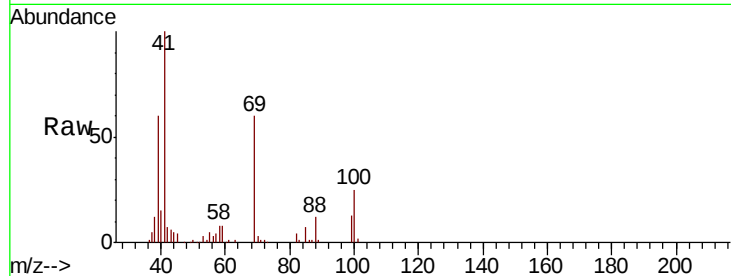
Tot Ion: 88 Resp: 10093

Ion Ratio Lower Upper

88 100

43 51.2 42.0 63.0

58 73.2 61.8 92.8



#50

Toluene-d8

Concen: 49.567 ug/l

RT: 7.58 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060850.D

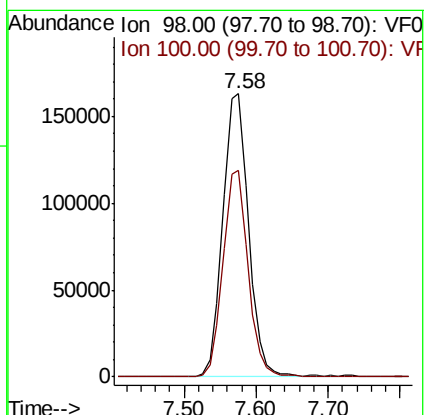
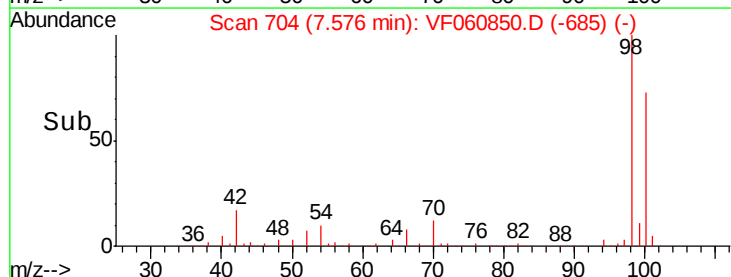
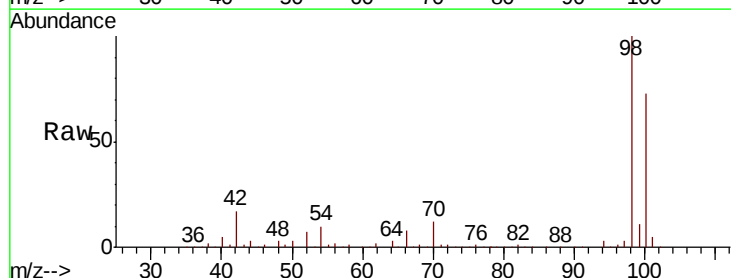
Acq: 28 Nov 2018 11:04

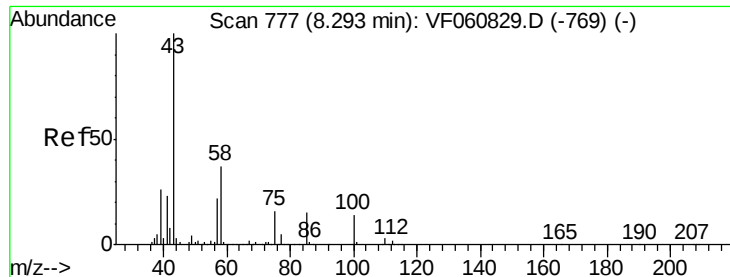
Tgt Ion: 98 Resp: 405739

Ion Ratio Lower Upper

98 100

100 73.0 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 222.355 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

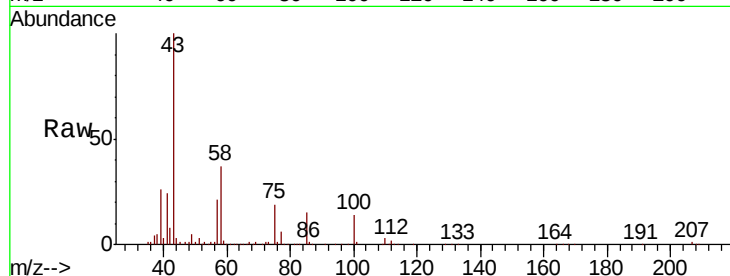
VSTDCCC050

Tot Ion: 43 Resp: 323732

Ion Ratio Lower Upper

43 100

58 36.9 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

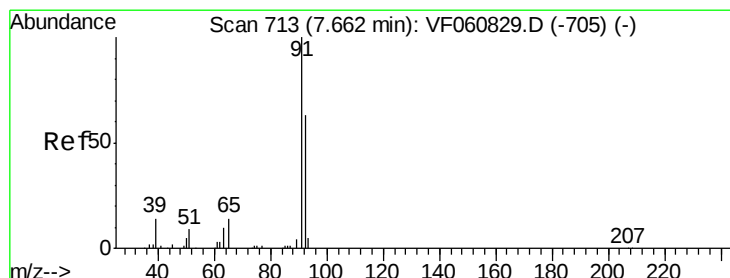
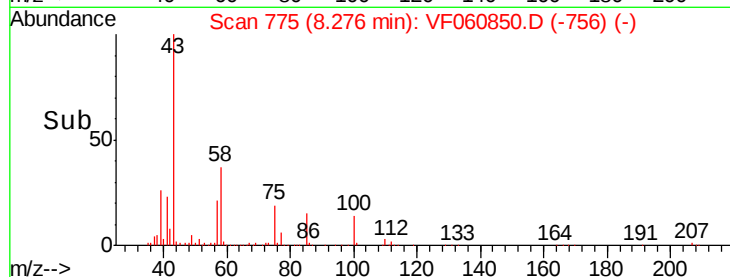
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 48.241 ug/l

RT: 7.64 min Scan# 711

Delta R.T. -0.02 min

Lab File: VF060850.D

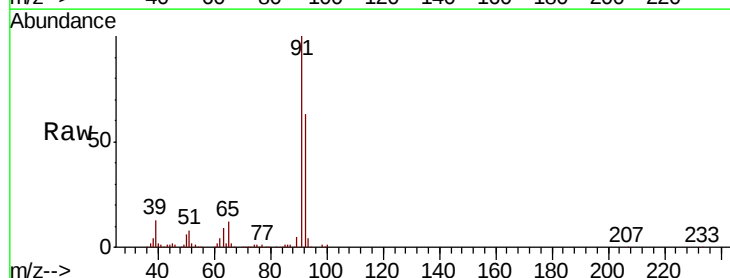
Acq: 28 Nov 2018 11:04

Tgt Ion: 92 Resp: 290842

Ion Ratio Lower Upper

92 100

91 159.8 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.64

200000

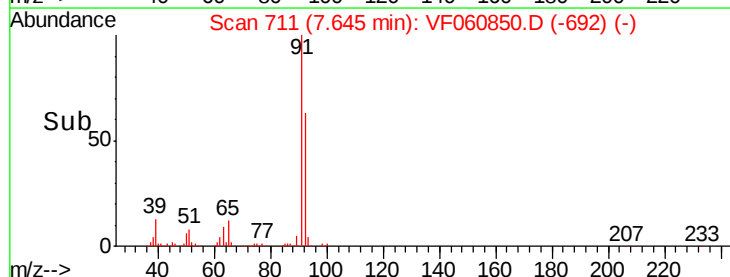
150000

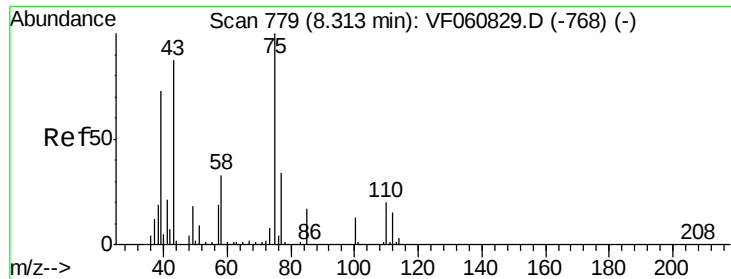
100000

50000

0

Time--> 7.50 7.60 7.70 7.80

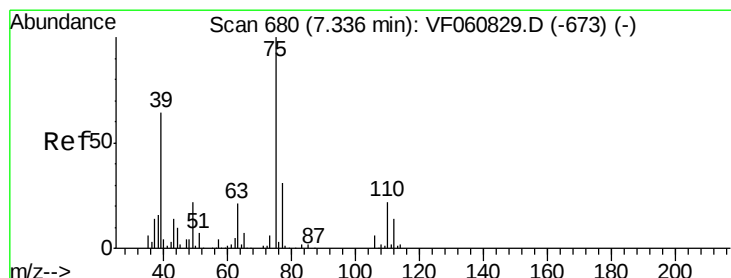
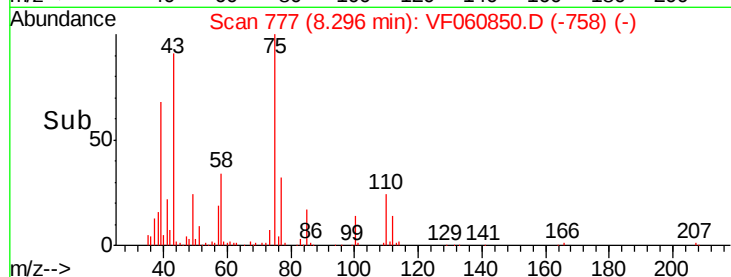
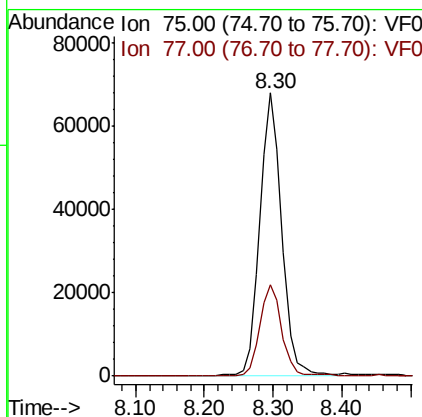
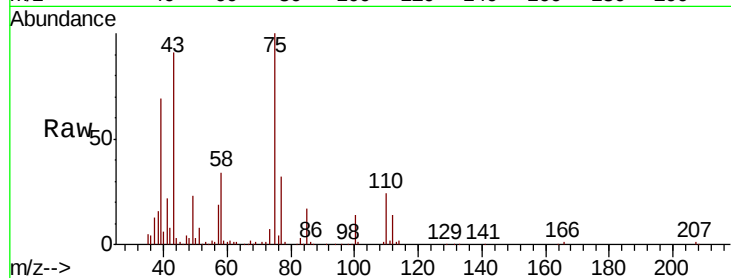




#53
t-1,3-Dichloropropene
Concen: 46.778 ug/l
RT: 8.30 min Scan# 777
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

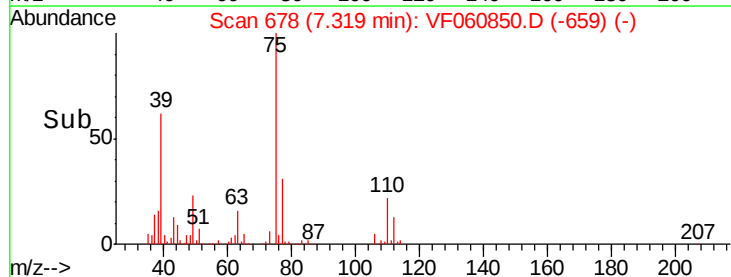
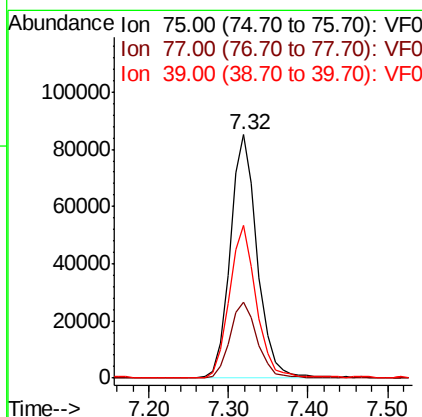
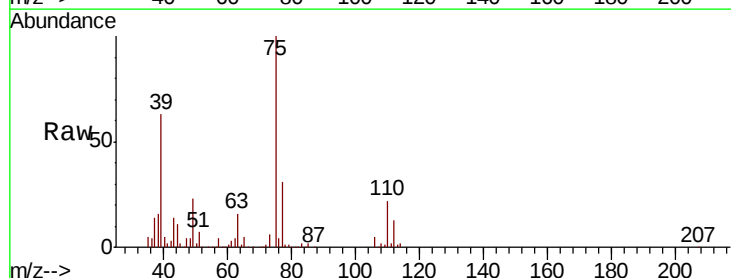
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

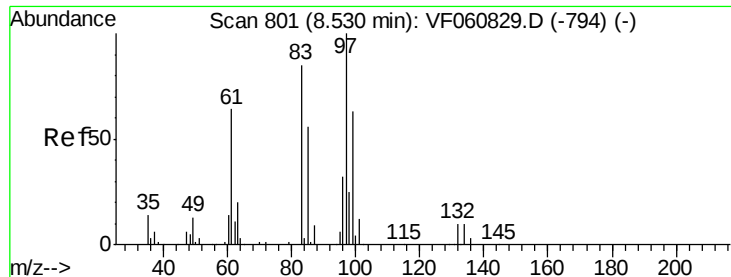
Tot Ion: 75 Resp: 152820
Ion Ratio Lower Upper
75 100
77 32.1 27.4 41.2



#54
cis-1,3-Dichloropropene
Concen: 49.703 ug/l
RT: 7.32 min Scan# 678
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 75 Resp: 201017
Ion Ratio Lower Upper
75 100
77 31.1 25.0 37.6
39 62.5 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 48.845 ug/l

RT: 8.51 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 85808

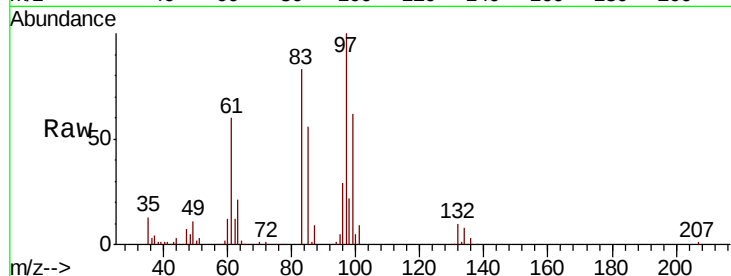
Ion Ratio Lower Upper

97 100

83 82.8 67.8 101.6

85 56.1 45.0 67.6

99 61.8 50.5 75.7

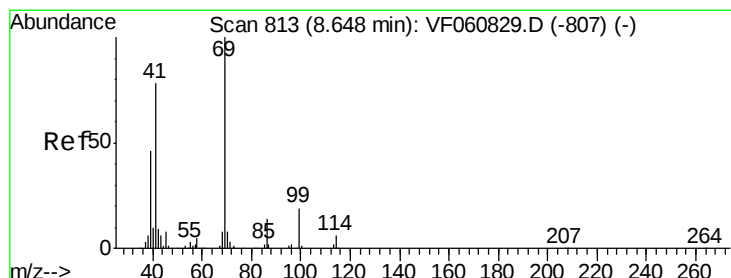
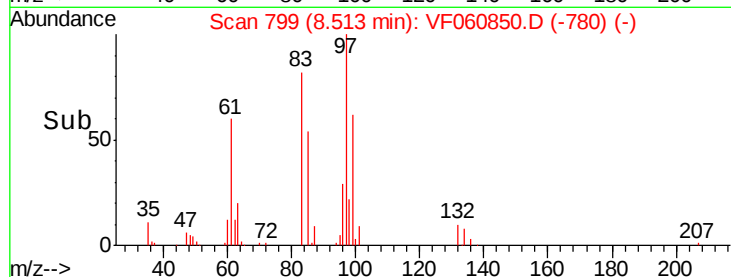
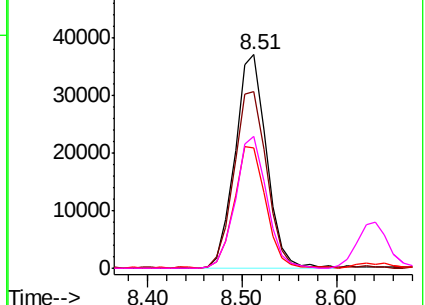


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 48.287 ug/l

RT: 8.64 min Scan# 812

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

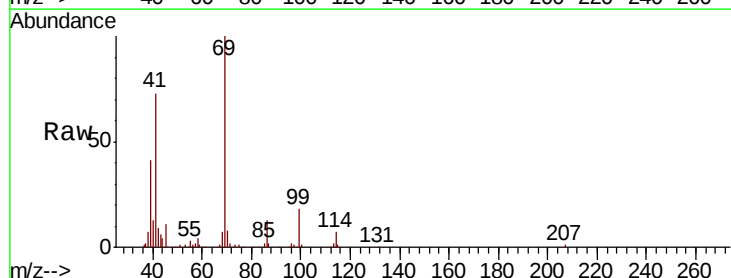
Tgt Ion: 69 Resp: 94233

Ion Ratio Lower Upper

69 100

41 72.6 62.6 94.0

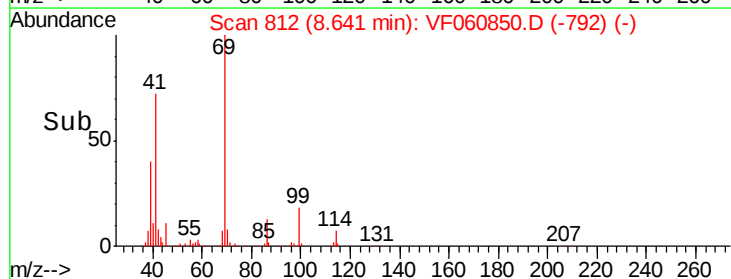
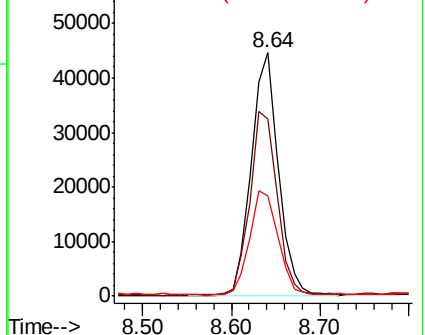
39 41.4 37.8 56.6

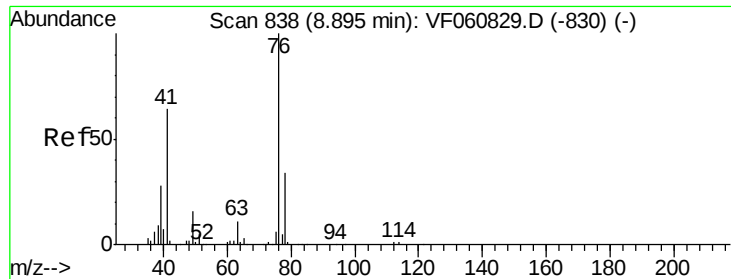


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 49.886 ug/l

RT: 8.87 min Scan# 835

Delta R.T. -0.03 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

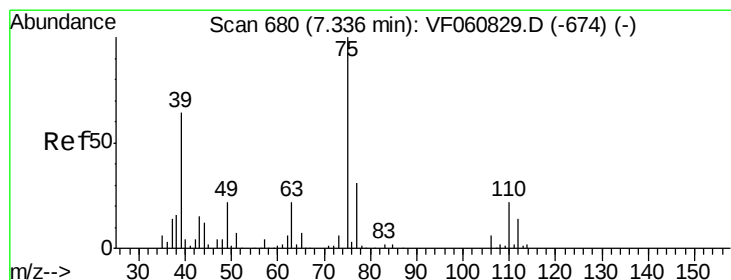
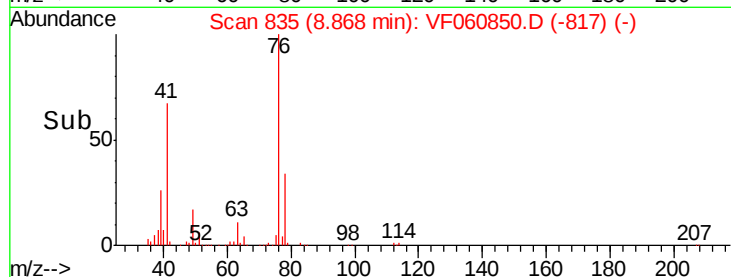
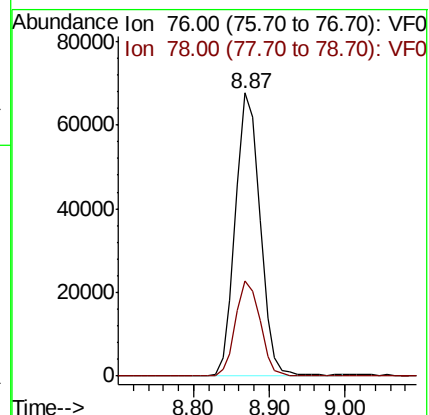
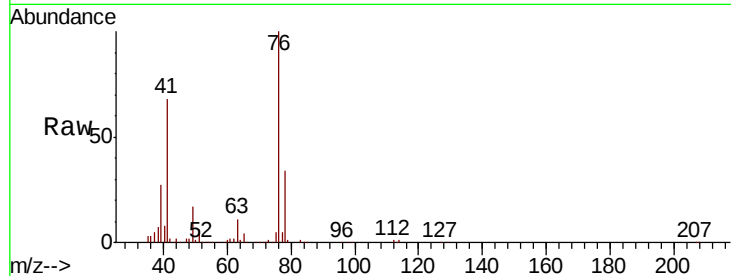
VSTDCCC050

Tot Ion: 76 Resp: 153324

Ion Ratio Lower Upper

76 100

78 33.7 27.0 40.4



#58

2-Chloroethyl Vinyl ether

Concen: 172.455 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF060850.D

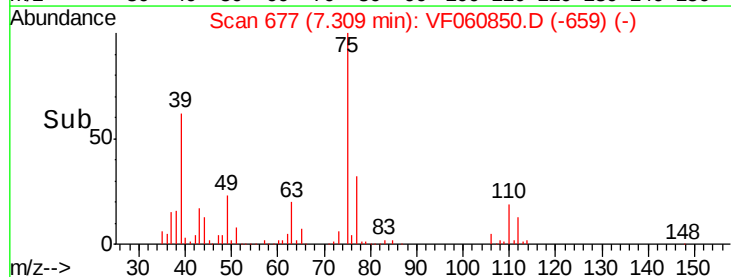
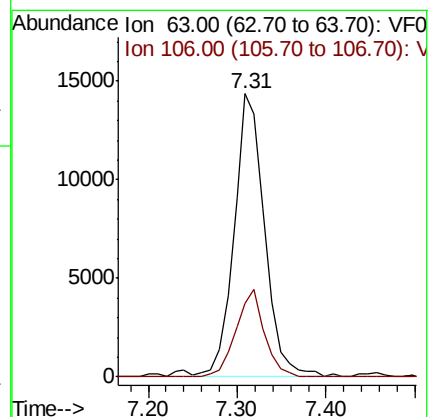
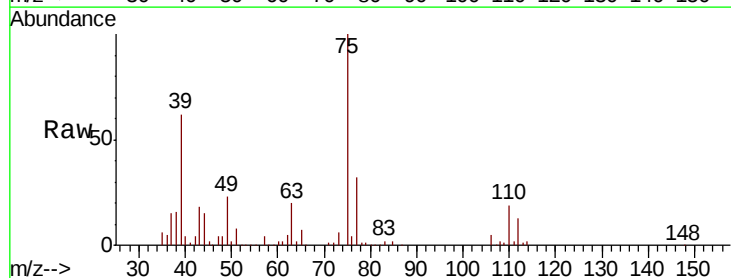
Acq: 28 Nov 2018 11:04

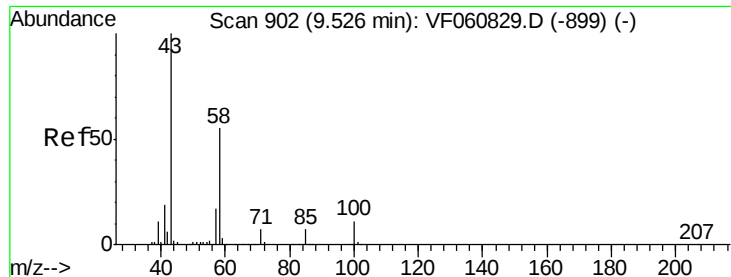
Tgt Ion: 63 Resp: 34424

Ion Ratio Lower Upper

63 100

106 26.0 23.0 34.6

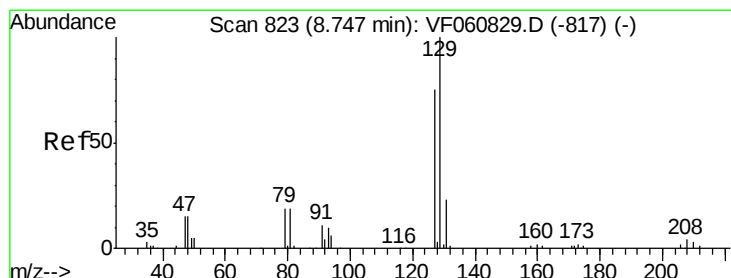
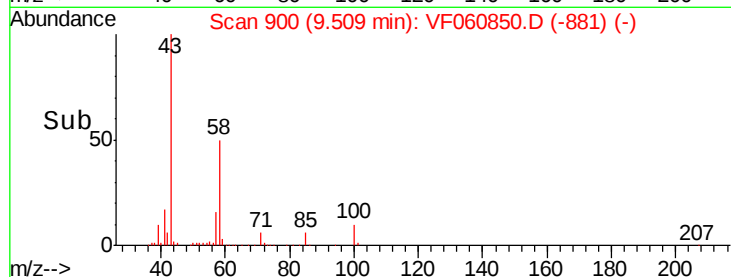
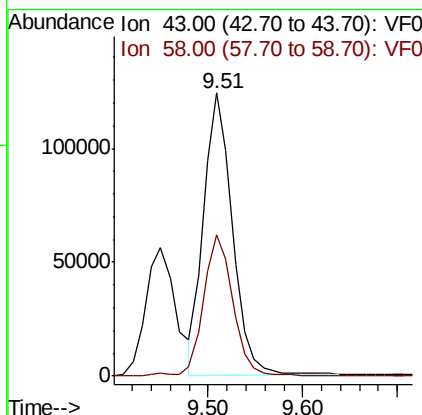
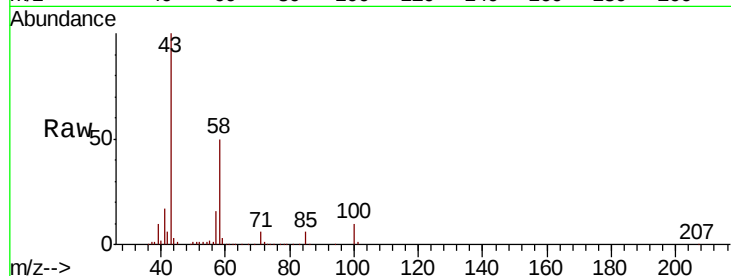




#59
2-Hexanone
Concen: 256.186 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

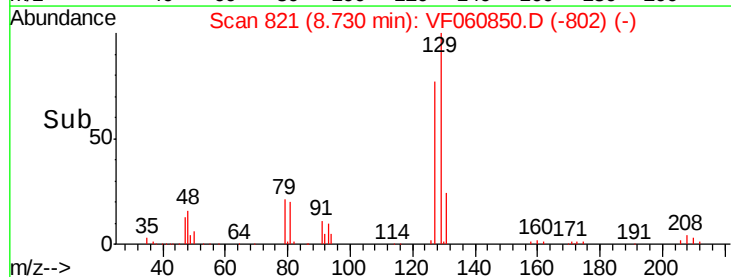
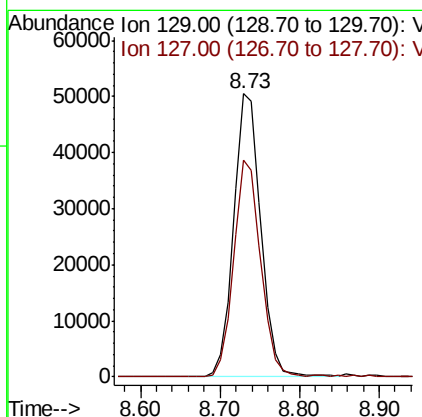
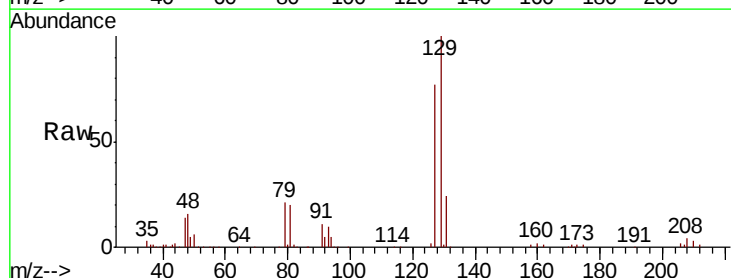
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

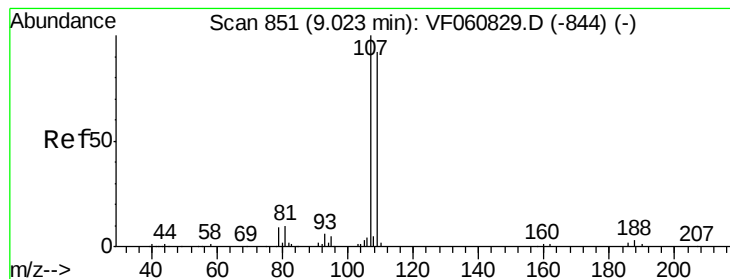
Tot Ion: 43 Resp: 261674
Ion Ratio Lower Upper
43 100
58 50.0 25.6 76.6



#60
Dibromochloromethane
Concen: 45.916 ug/l
RT: 8.73 min Scan# 821
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 129 Resp: 120184
Ion Ratio Lower Upper
129 100
127 76.8 37.3 111.9





#61

1,2-Dibromoethane

Concen: 46.623 ug/l

RT: 9.01 min Scan# 849

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

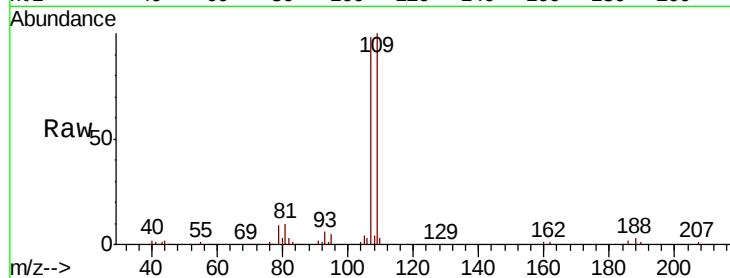
VSTDCCC050

Tot Ion:107 Resp: 88480

Ion Ratio Lower Upper

107 100

109 101.8 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

40000

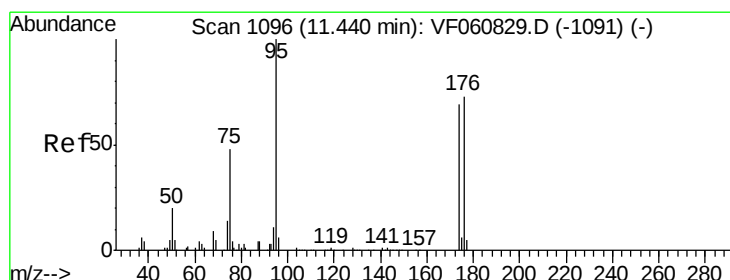
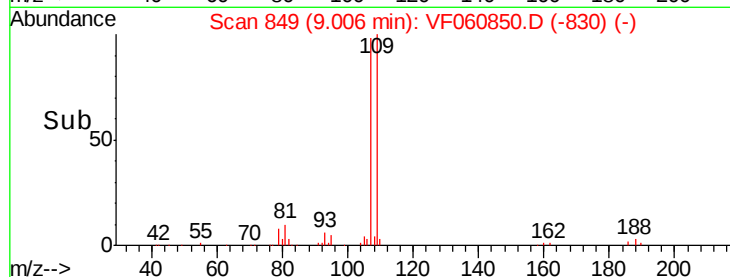
30000

20000

10000

0

Time--> 8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 49.439 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

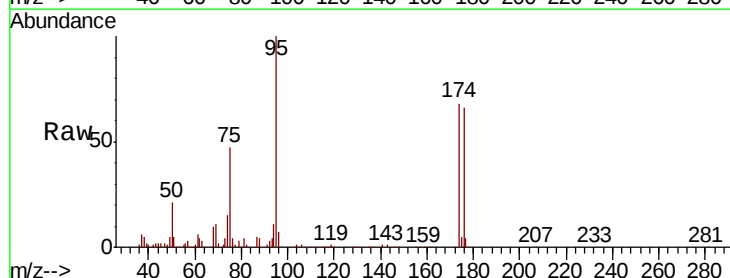
Tgt Ion: 95 Resp: 183924

Ion Ratio Lower Upper

95 100

174 68.1 0.0 138.2

176 65.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

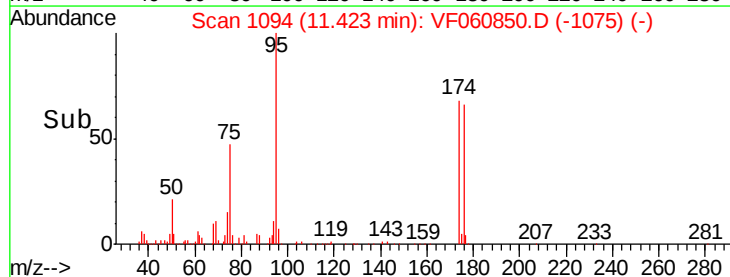
Ion 176.00 (175.70 to 176.70): V

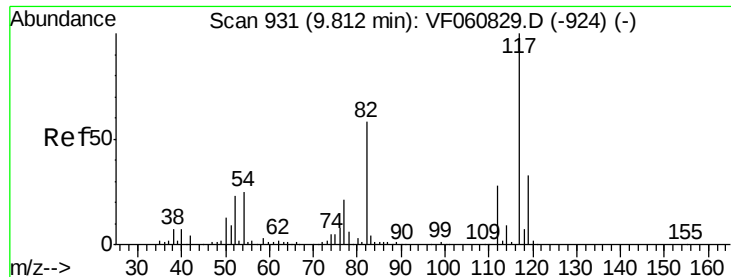
100000

50000

0

Time--> 11.30 11.40 11.50

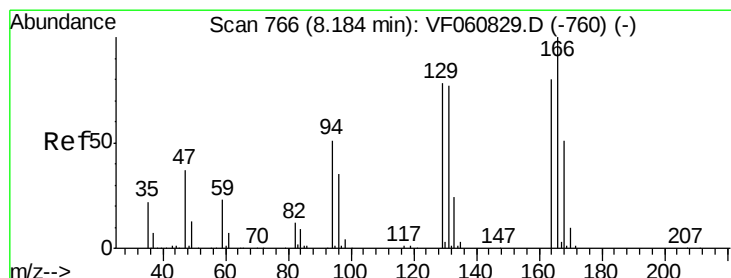
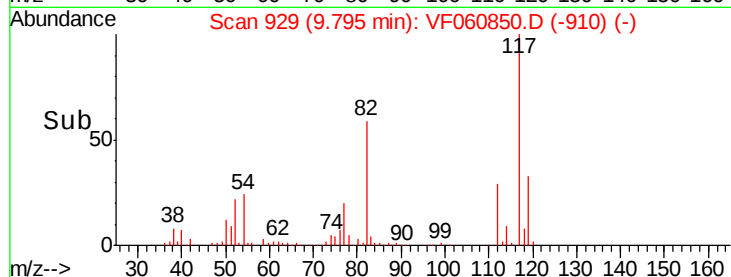
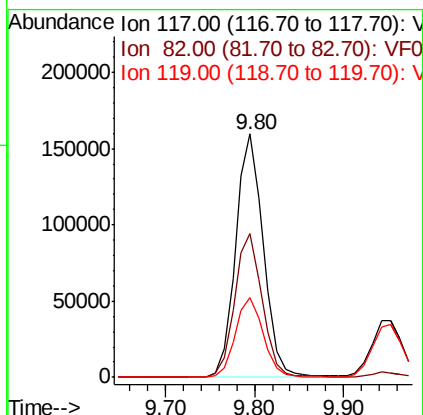
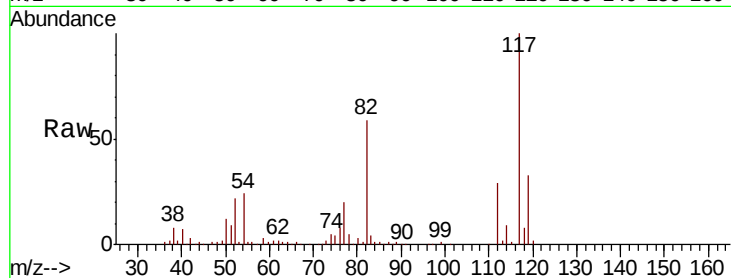




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

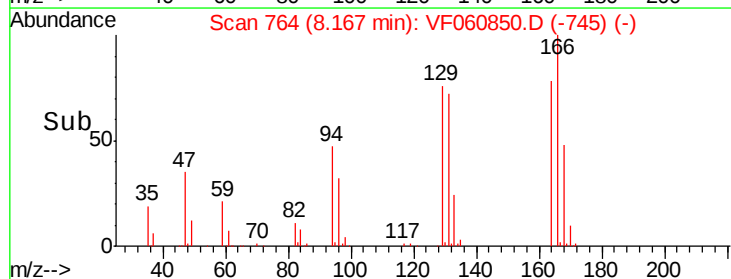
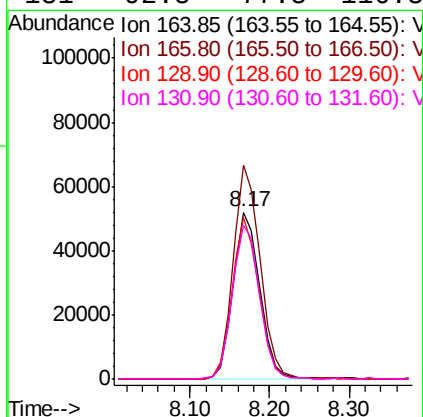
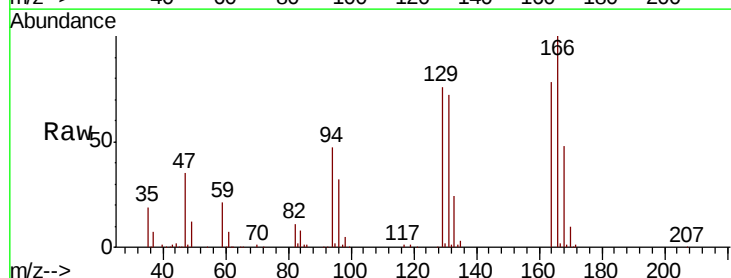
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 345463
Ion Ratio Lower Upper
117 100
82 59.0 46.6 69.8
119 32.6 26.4 39.6



#64
Tetrachloroethene
Concen: 46.353 ug/l
RT: 8.17 min Scan# 764
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion:164 Resp: 122309
Ion Ratio Lower Upper
164 100
166 128.2 100.3 150.5
129 96.9 77.9 116.9
131 92.5 77.5 116.3

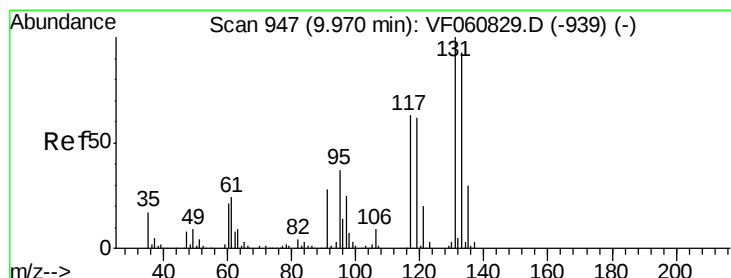
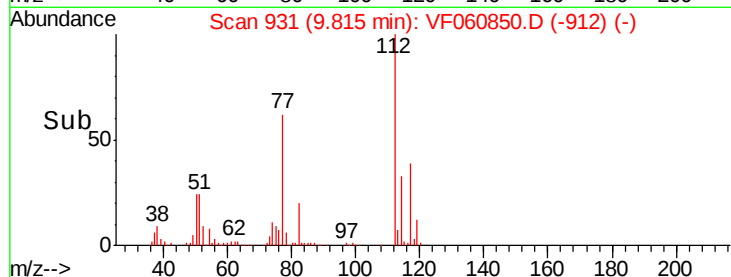
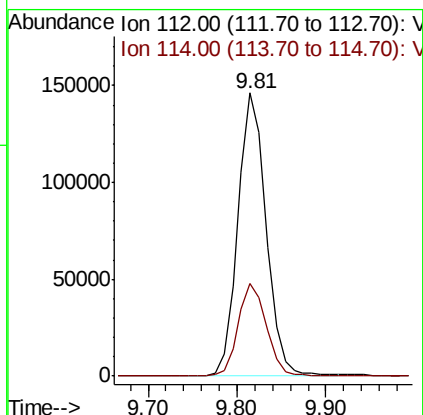
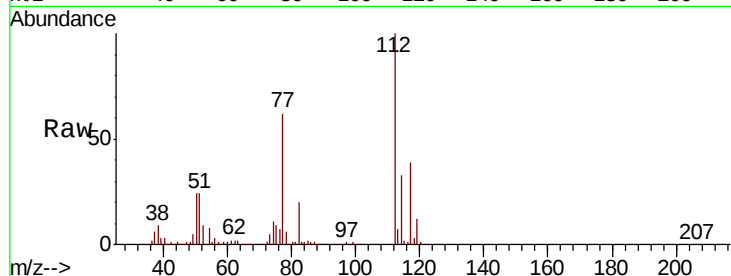




#65
Chlorobenzene
Concen: 47.993 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

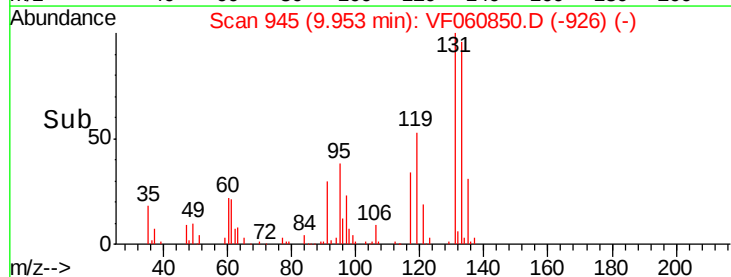
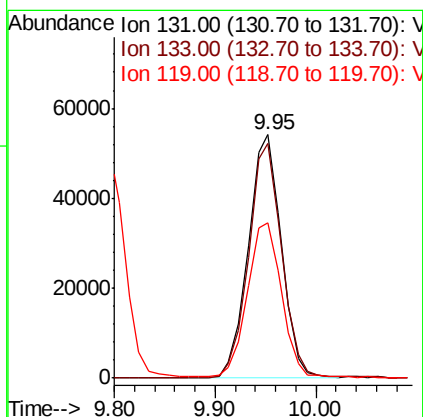
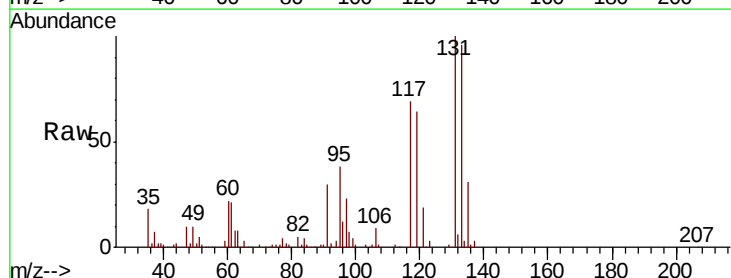
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 322541
Ion Ratio Lower Upper
112 100
114 32.8 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 42.885 ug/l
RT: 9.95 min Scan# 945
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion:131 Resp: 123902
Ion Ratio Lower Upper
131 100
133 96.2 46.5 139.3
119 63.9 31.1 93.3

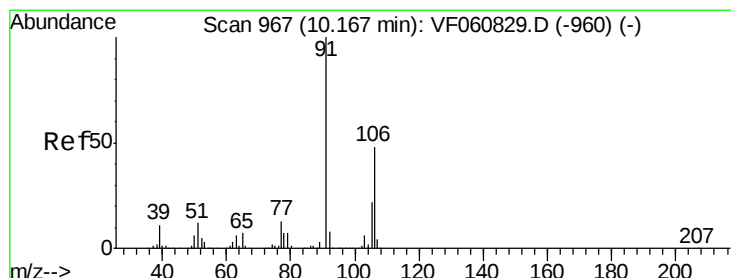
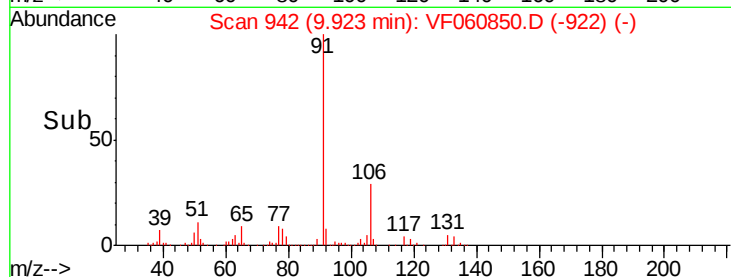
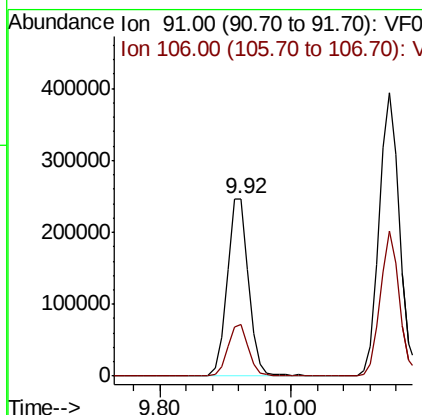
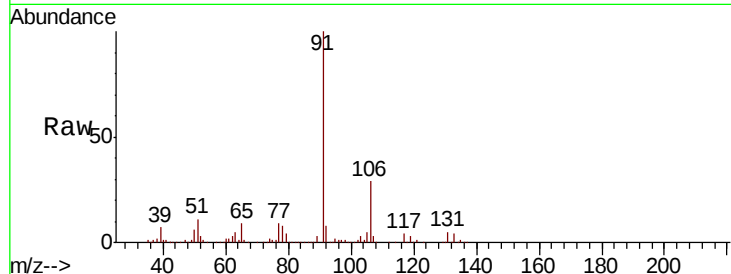




#67
Ethyl Benzene
Concen: 45.015 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

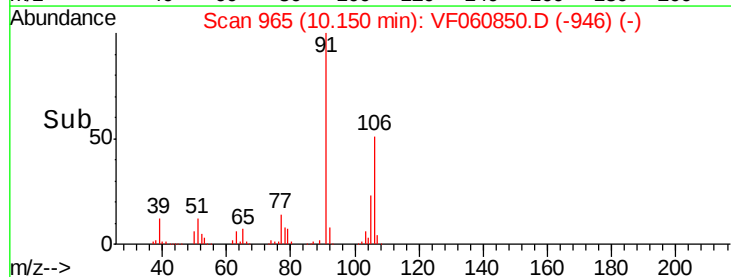
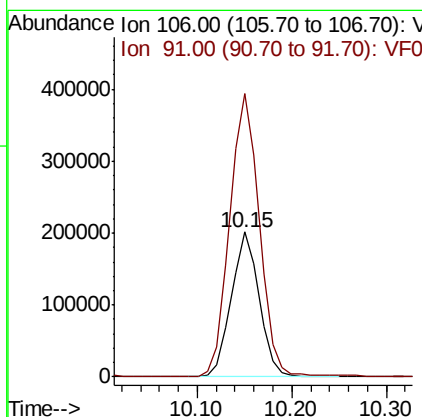
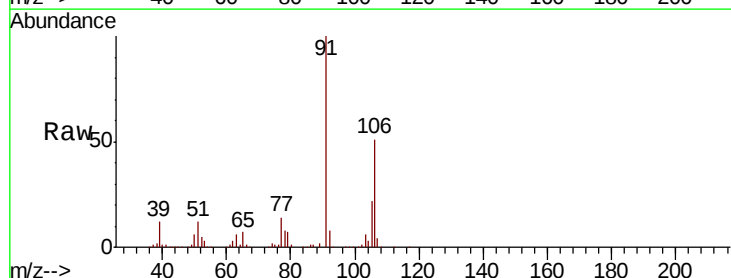
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

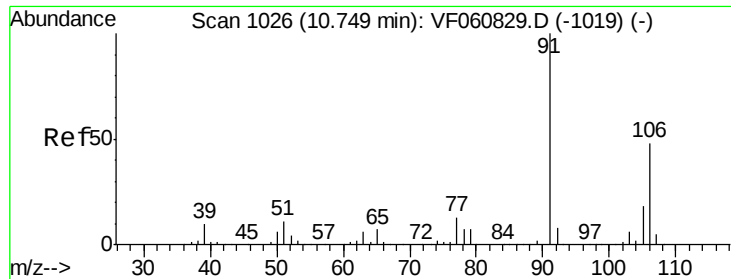
Tot Ion: 91 Resp: 563216
Ion Ratio Lower Upper
91 100
106 29.4 22.2 33.2



#68
m/p-Xylenes
Concen: 91.741 ug/l
RT: 10.15 min Scan# 965
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 106 Resp: 412832
Ion Ratio Lower Upper
106 100
91 195.7 166.7 250.1

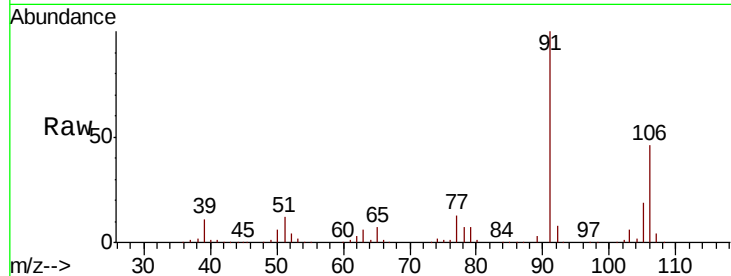




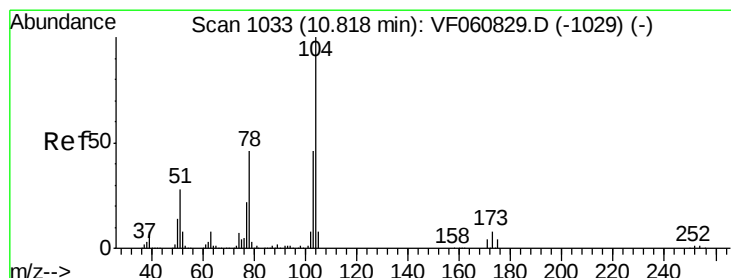
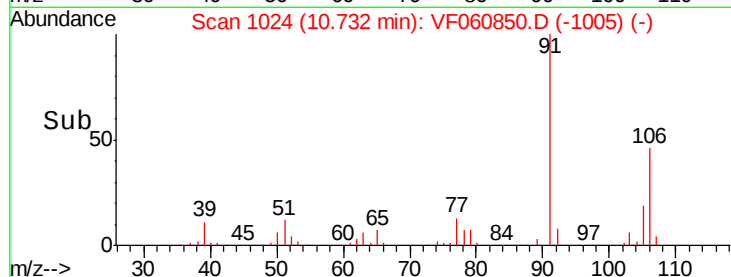
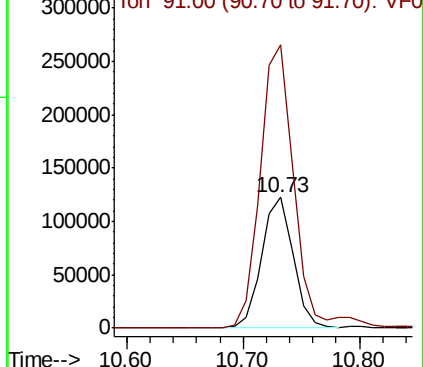
#69
o-Xylene
Concen: 46.521 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 230844
Ion Ratio Lower Upper
106 100
91 216.7 104.8 314.6

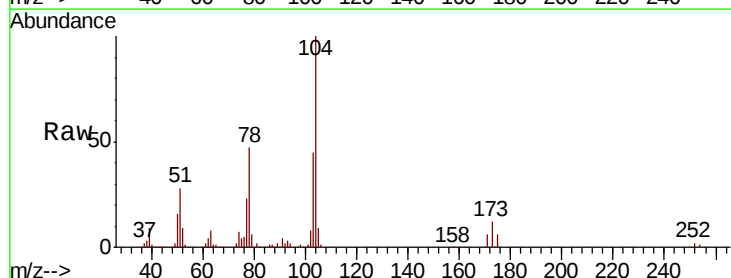


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

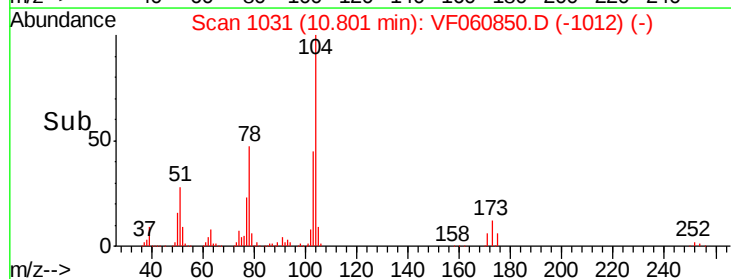
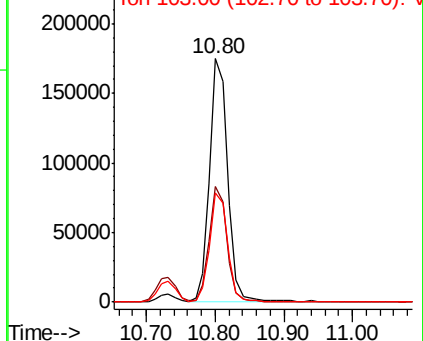


#70
Styrene
Concen: 46.373 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion:104 Resp: 318983
Ion Ratio Lower Upper
104 100
78 47.3 37.3 55.9
103 44.8 36.8 55.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 45.392 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

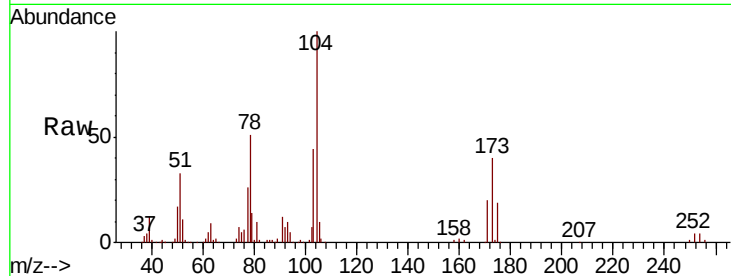
Tot Ion:173 Resp: 63347

Ion Ratio Lower Upper

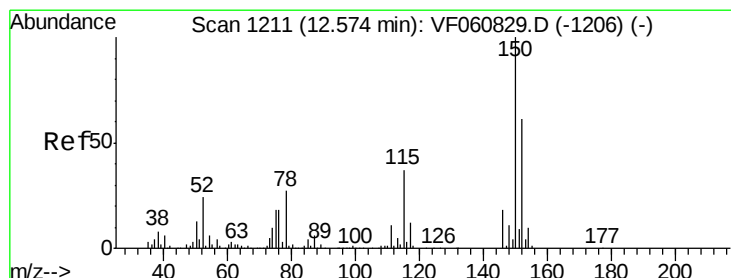
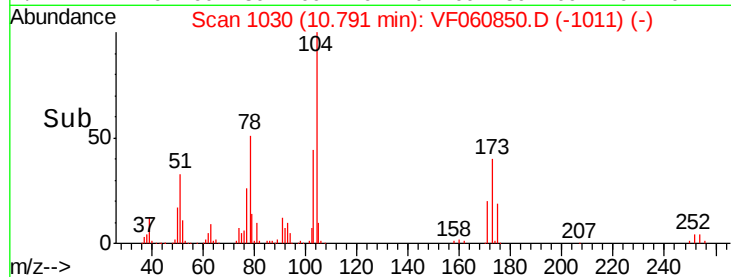
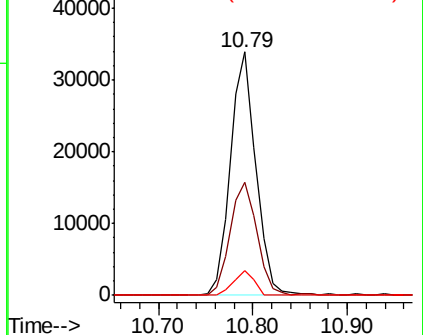
173 100

175 47.9 25.5 76.5

254 9.9 7.5 11.3



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: 12.57 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

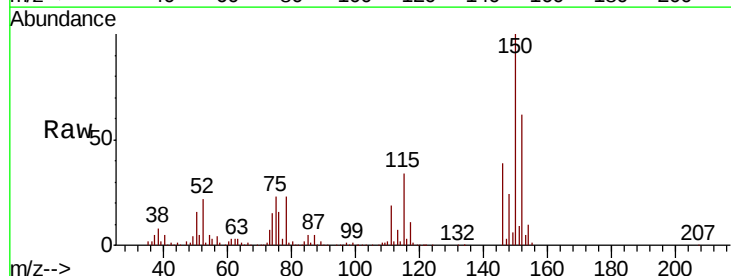
Tgt Ion:152 Resp: 171382

Ion Ratio Lower Upper

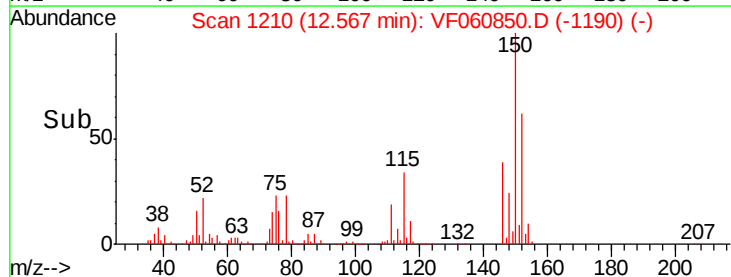
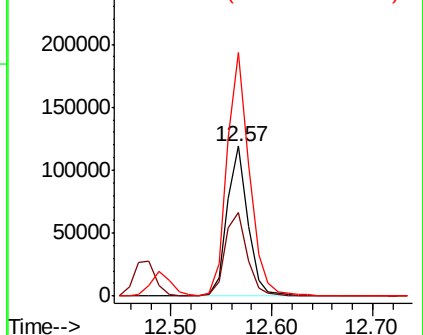
152 100

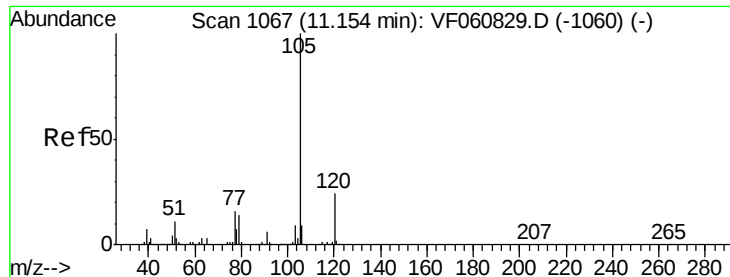
115 55.5 30.1 90.5

150 162.5 0.0 327.6



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: 50.574 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

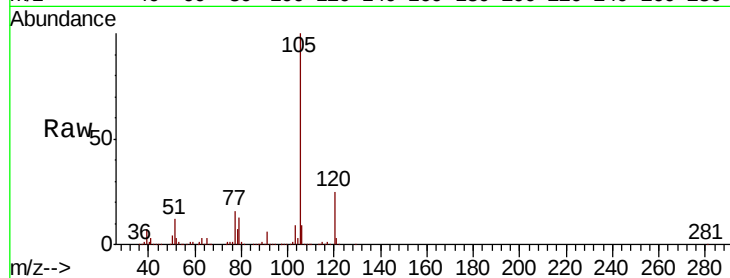
VSTDCCC050

Tot Ion:105 Resp: 684947

Ion Ratio Lower Upper

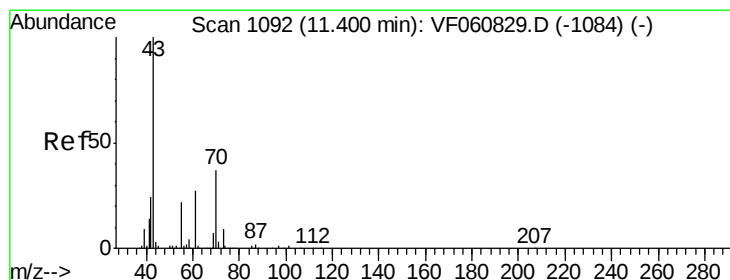
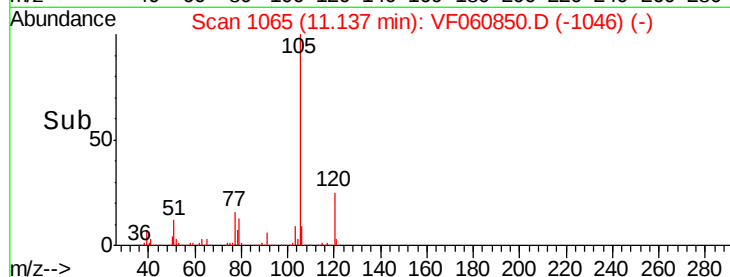
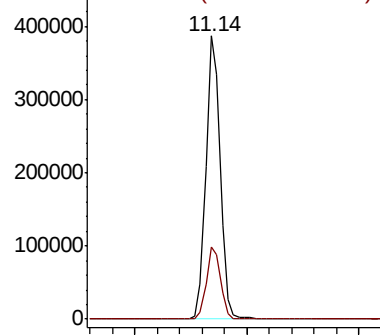
105 100

120 25.5 12.2 36.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 50.448 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Tgt Ion: 43 Resp: 157772

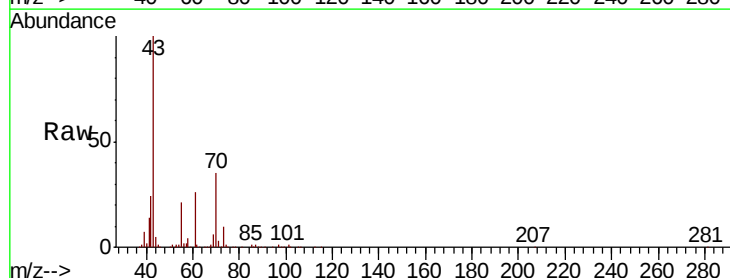
Ion Ratio Lower Upper

43 100

70 35.1 29.6 44.4

55 20.8 17.2 25.8

61 26.0 21.8 32.6

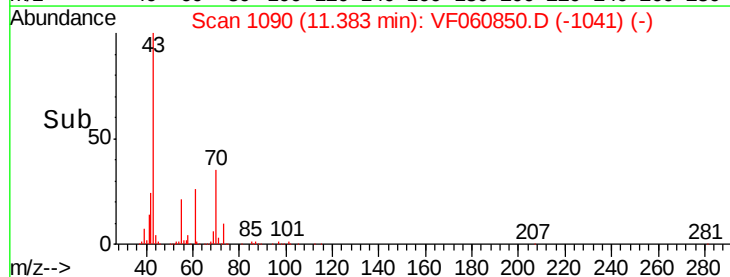
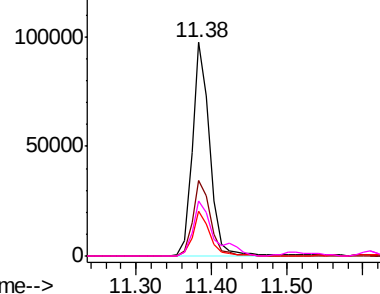


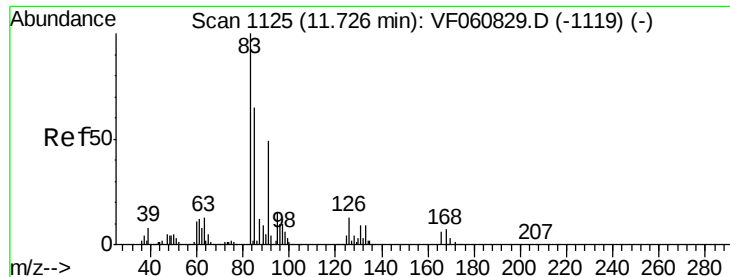
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 50.795 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

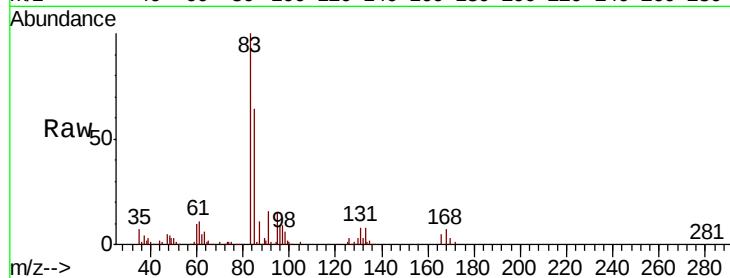
Tot Ion: 83 Resp: 113220

Ion Ratio Lower Upper

83 100

131 8.1 4.7 14.1

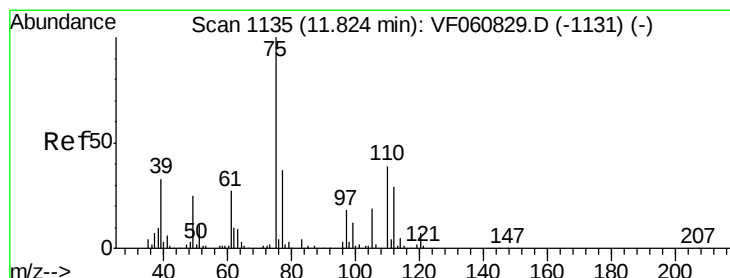
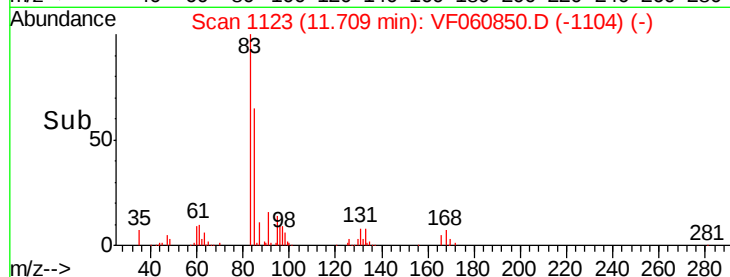
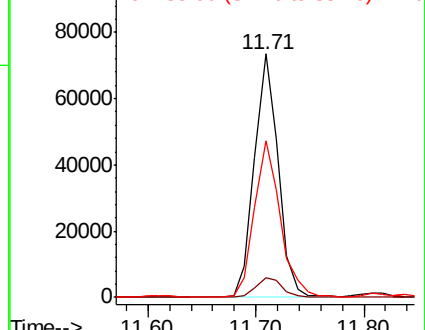
85 64.5 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 50.198 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF060850.D

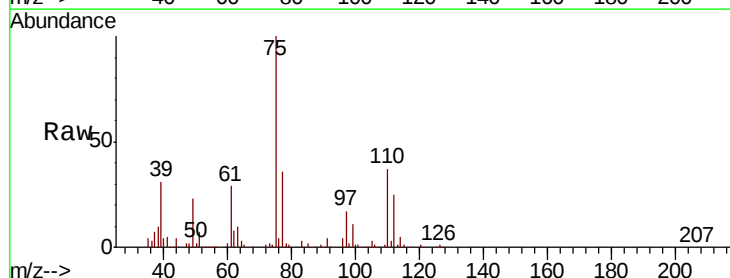
Acq: 28 Nov 2018 11:04

Tgt Ion: 75 Resp: 81328

Ion Ratio Lower Upper

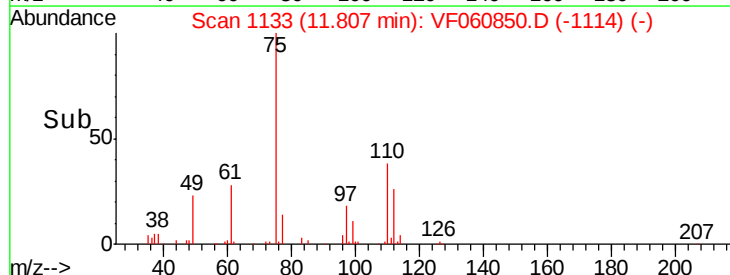
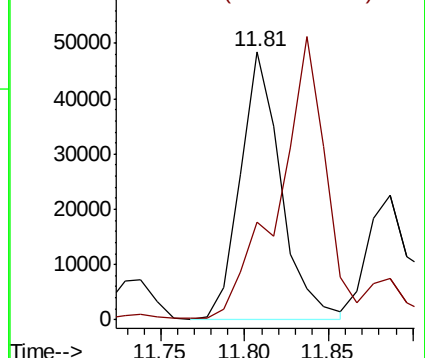
75 100

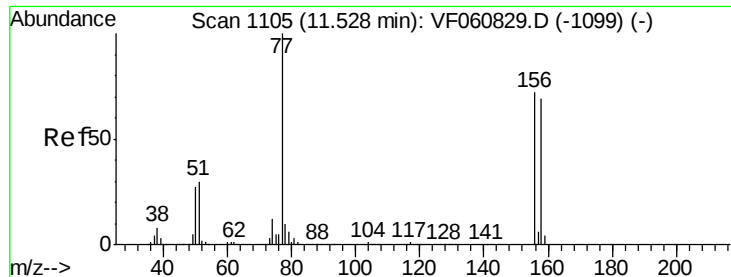
77 36.4 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 48.839 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

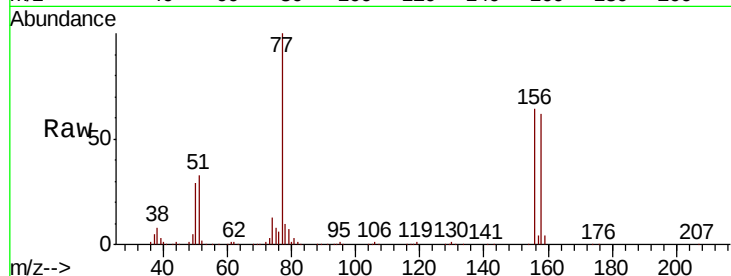
Tot Ion:156 Resp: 145016

Ion Ratio Lower Upper

156 100

77 156.6 69.7 209.0

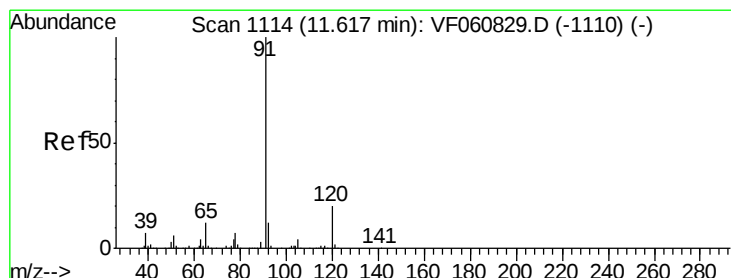
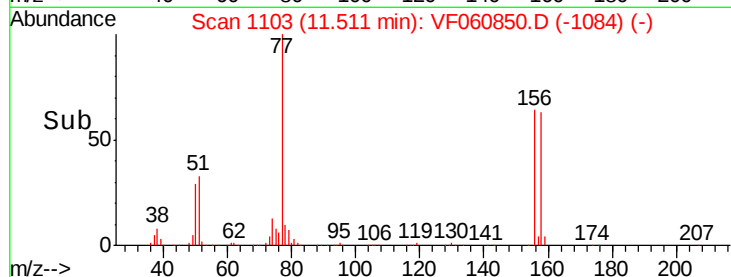
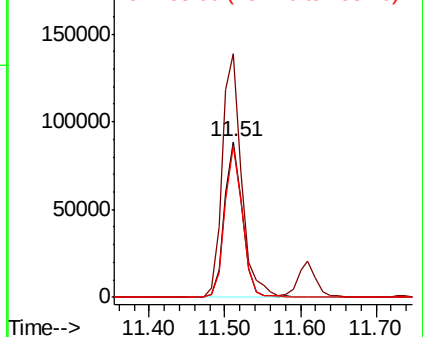
158 97.8 47.8 143.4



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: 50.135 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF060850.D

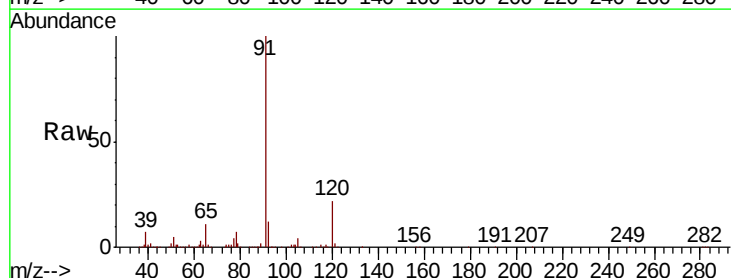
Acq: 28 Nov 2018 11:04

Tgt Ion: 91 Resp: 795162

Ion Ratio Lower Upper

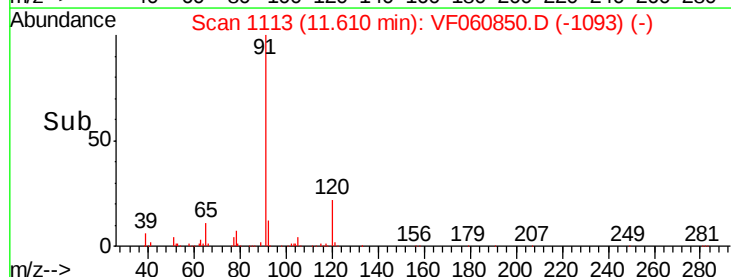
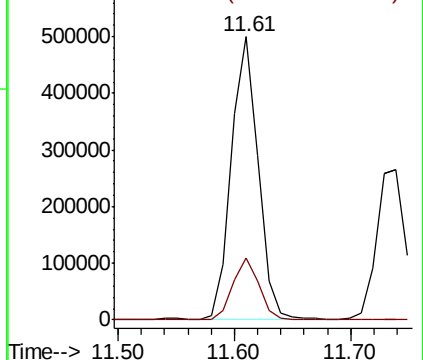
91 100

120 22.0 10.3 30.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

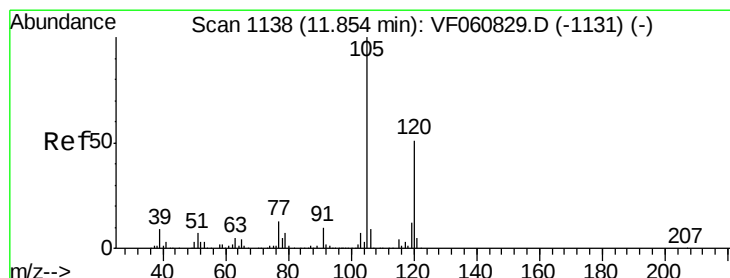
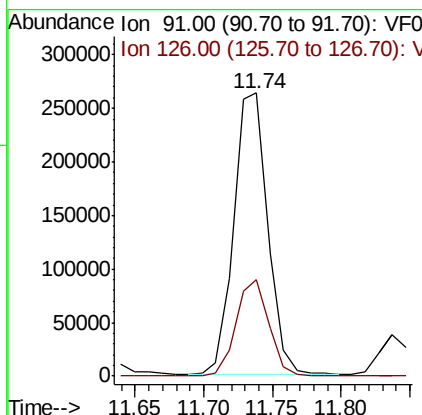
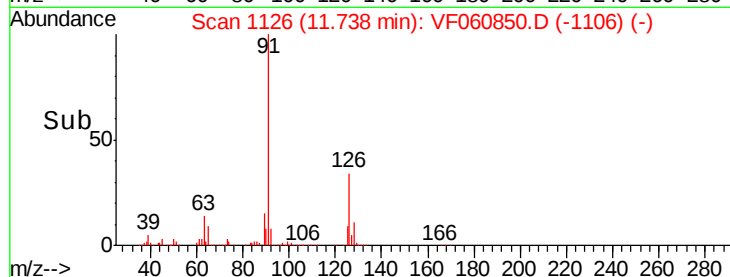
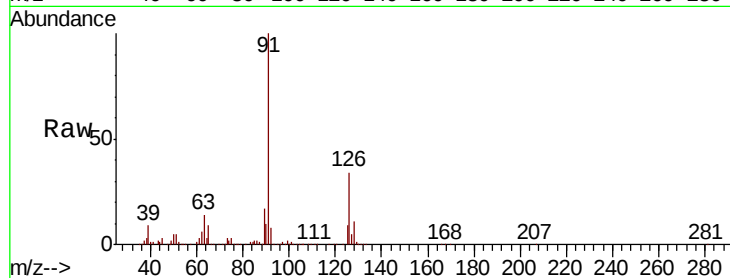




#79
2-Chlorotoluene
Concen: 49.689 ug/l
RT: 11.74 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

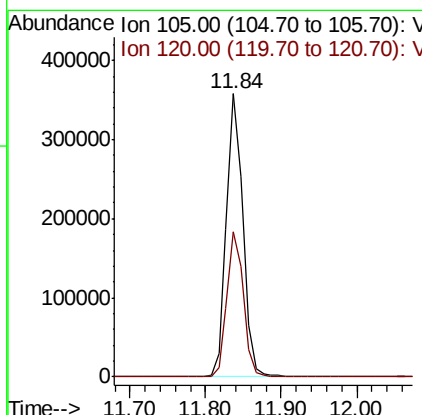
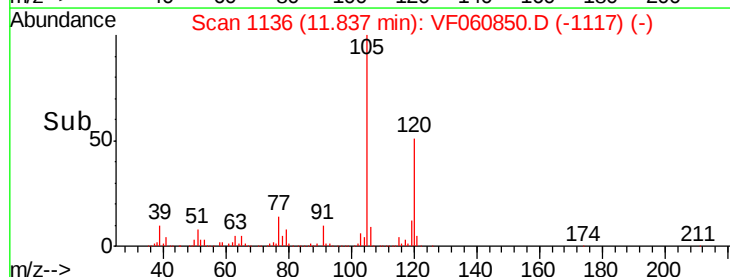
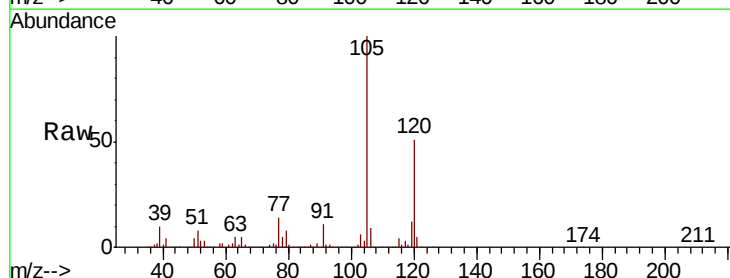
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

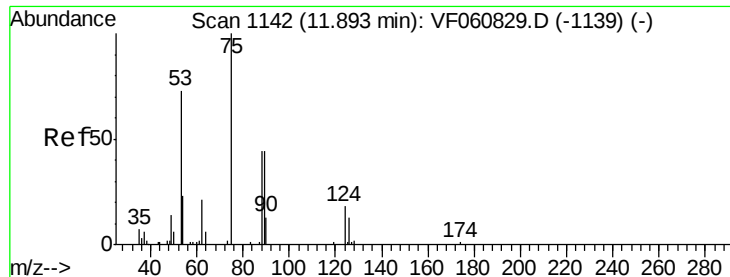
Tot Ion: 91 Resp: 451883
Ion Ratio Lower Upper
91 100
126 34.2 15.9 47.6



#80
1,3,5-Trimethylbenzene
Concen: 49.291 ug/l
RT: 11.84 min Scan# 1136
Delta R.T. -0.02 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion: 105 Resp: 541951
Ion Ratio Lower Upper
105 100
120 51.1 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 64.211 ug/l

RT: 11.89 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

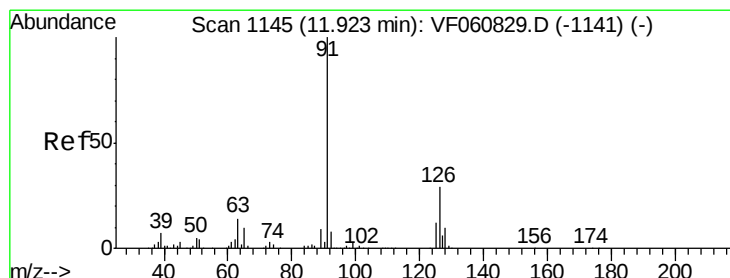
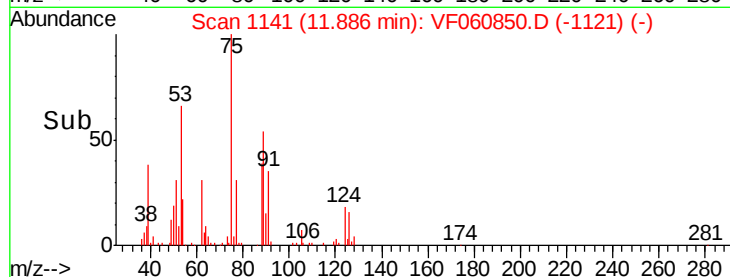
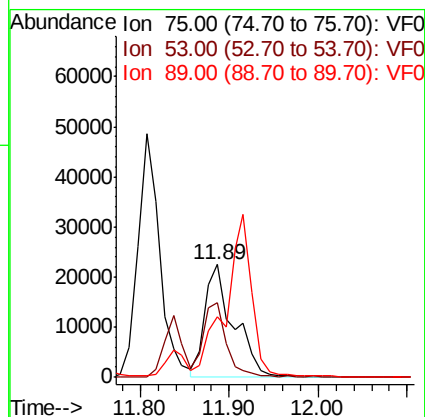
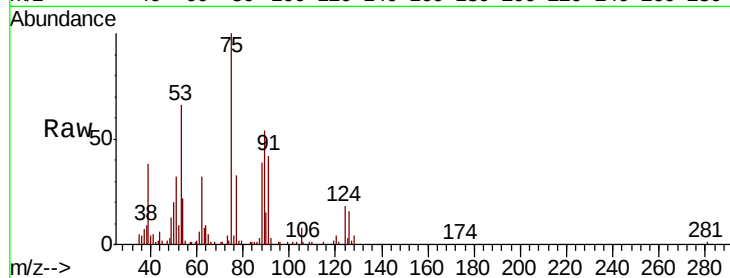
Tot Ion: 75 Resp: 50972

Ion Ratio Lower Upper

75 100

53 66.2 65.9 98.9

89 54.3 38.8 58.2



#82

4-Chlorotoluene

Concen: 47.599 ug/l

RT: 11.92 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VF060850.D

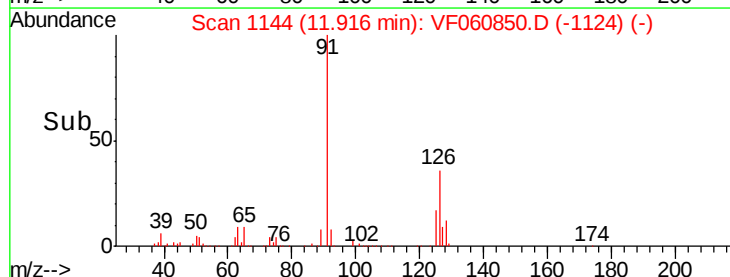
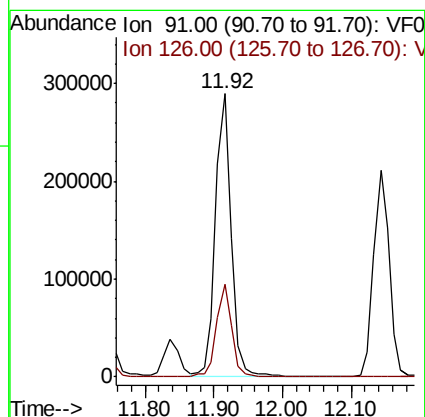
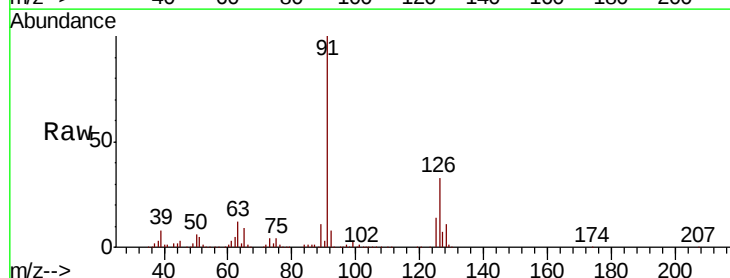
Acq: 28 Nov 2018 11:04

Tgt Ion: 91 Resp: 455553

Ion Ratio Lower Upper

91 100

126 32.8 14.8 44.4

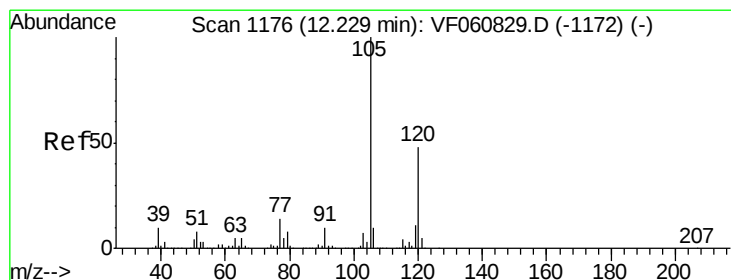
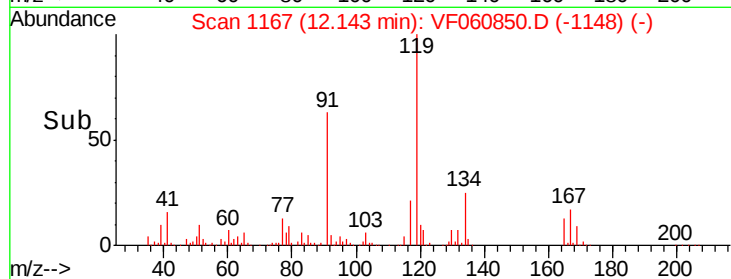
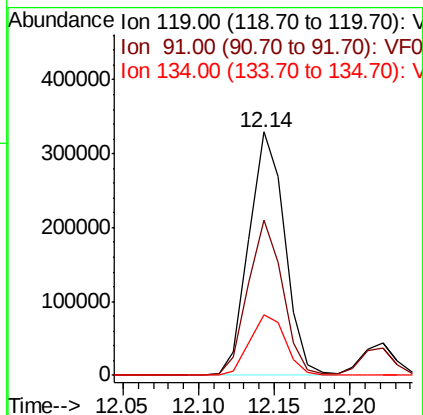
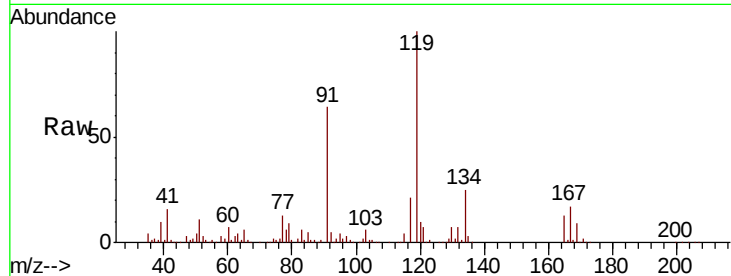




#83
 tert-Butylbenzene
 Concen: 48.877 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. -0.02 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

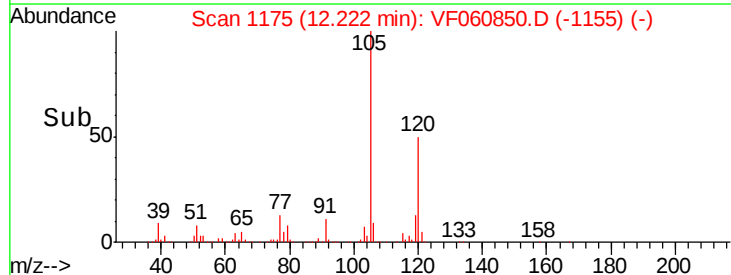
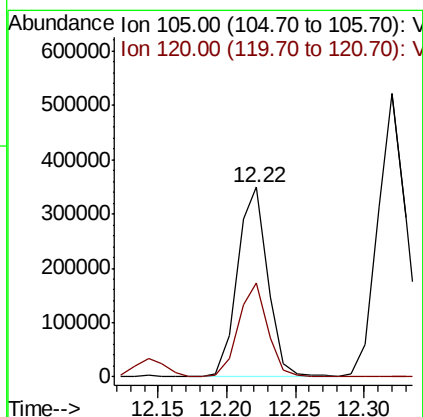
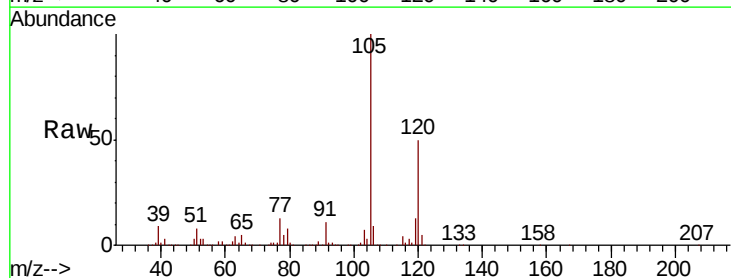
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

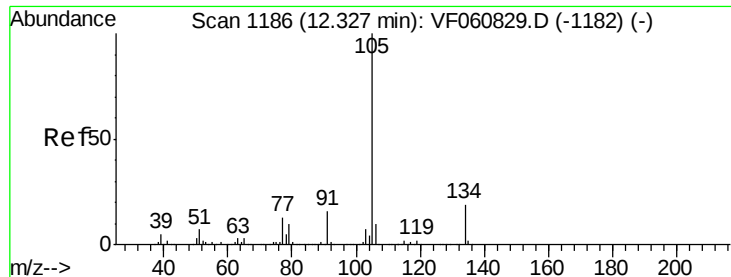
Tot Ion:119 Resp: 547402
 Ion Ratio Lower Upper
 119 100
 91 64.1 30.1 90.3
 134 25.1 12.6 37.8



#84
 1,2,4-Trimethylbenzene
 Concen: 48.946 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion:105 Resp: 537088
 Ion Ratio Lower Upper
 105 100
 120 49.9 23.8 71.5





#85

sec-Butylbenzene

Concen: 49.056 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

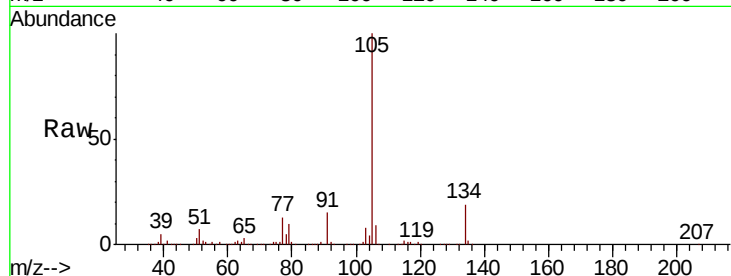
VSTDCCC050

Tot Ion:105 Resp: 752110

Ion Ratio Lower Upper

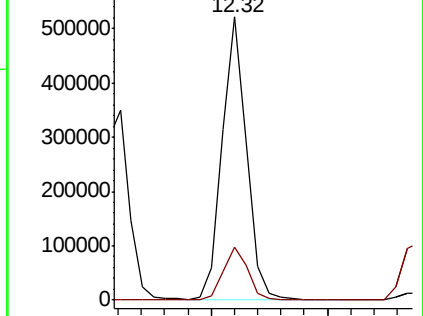
105 100

134 18.9 9.5 28.5

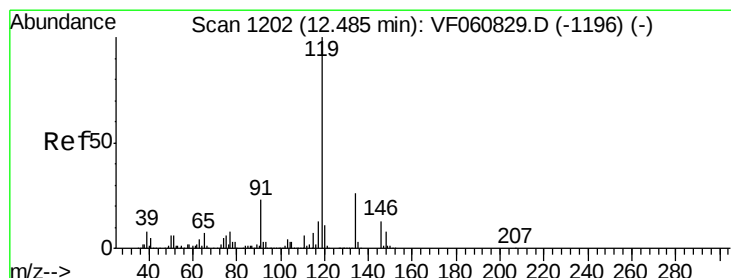
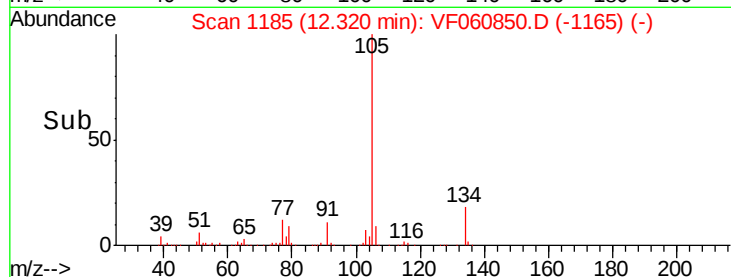


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 49.050 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

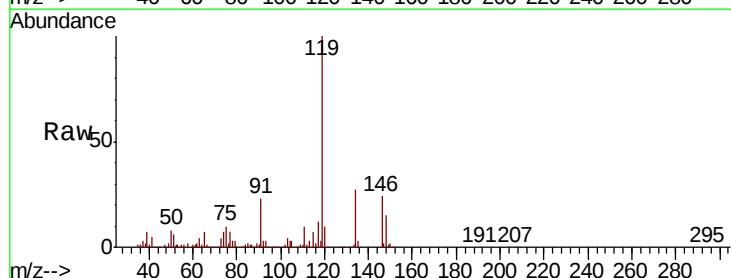
Tgt Ion:119 Resp: 630495

Ion Ratio Lower Upper

119 100

134 26.9 12.9 38.6

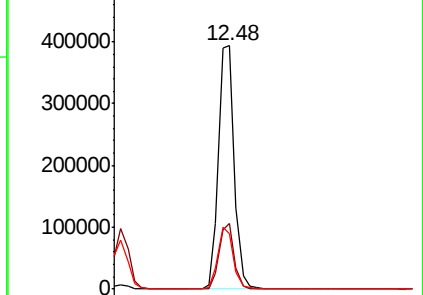
91 22.9 11.8 35.3



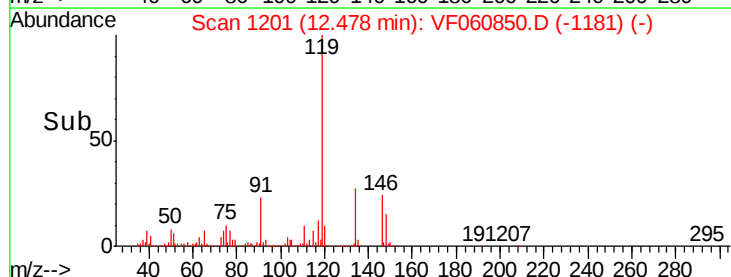
Abundance Ion 119.00 (118.70 to 119.70): V

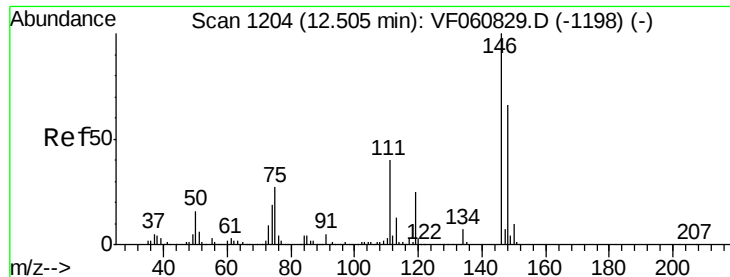
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#87

1,3-Dichlorobenzene

Concen: 48.315 ug/l

RT: 12.49 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

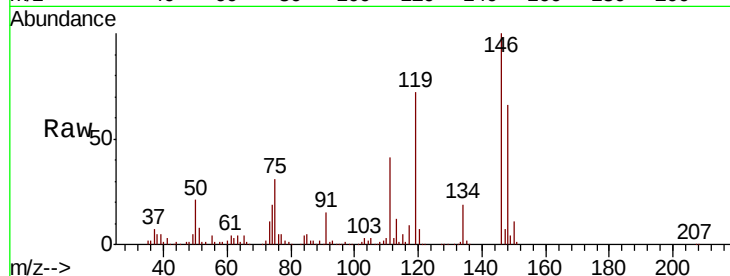
Tot Ion:146 Resp: 272885

Ion Ratio Lower Upper

146 100

111 40.5 20.0 59.9

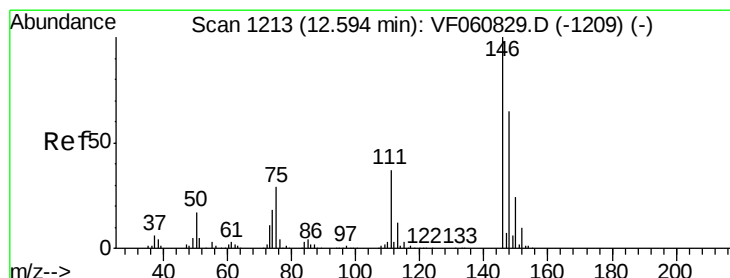
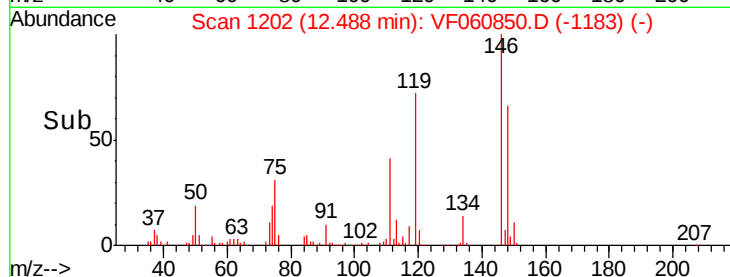
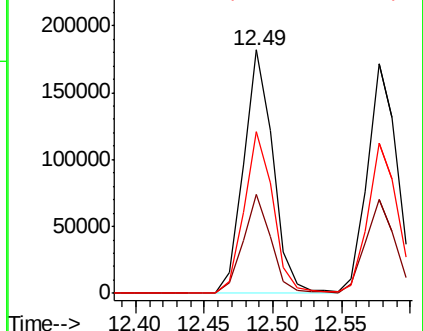
148 66.2 32.9 98.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 47.577 ug/l

RT: 12.58 min Scan# 1211

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

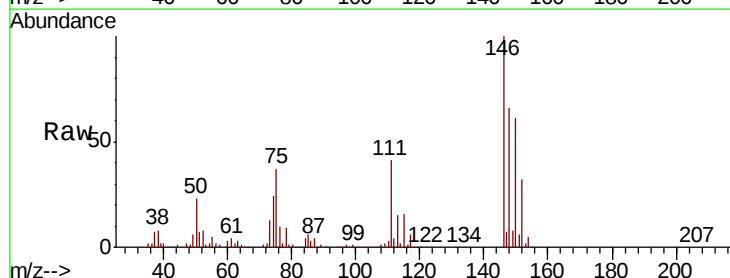
Tgt Ion:146 Resp: 261868

Ion Ratio Lower Upper

146 100

111 41.0 18.9 56.7

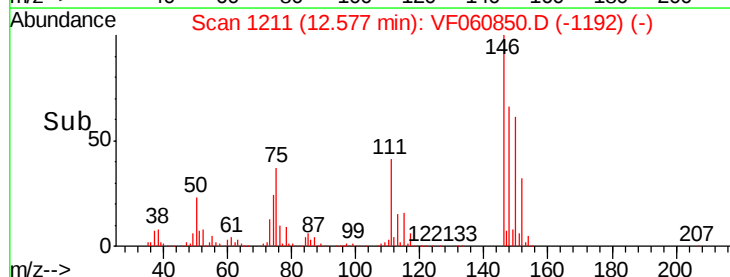
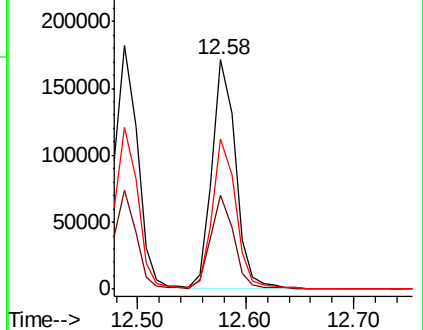
148 65.6 32.3 96.9

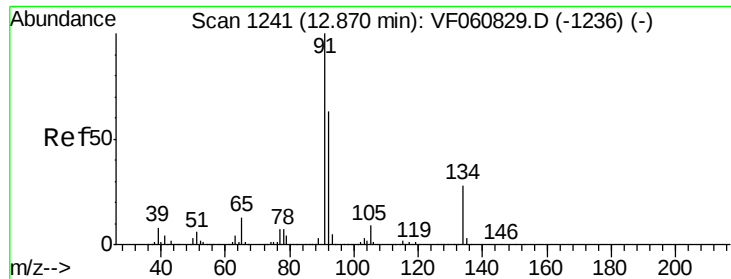


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 48.300 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF060850.D

Acq: 28 Nov 2018 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

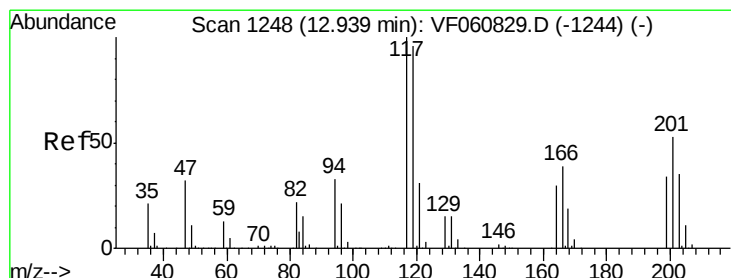
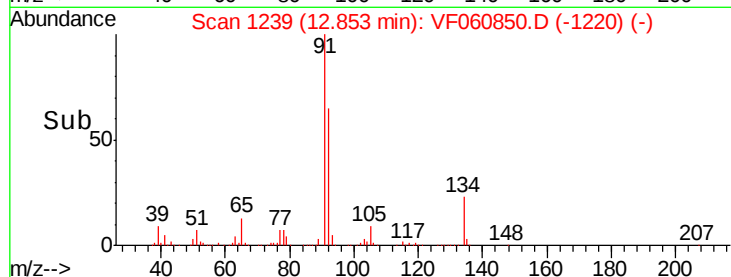
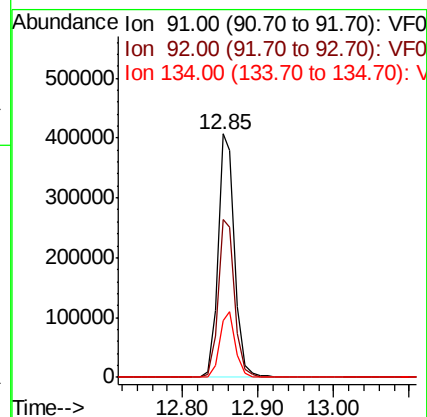
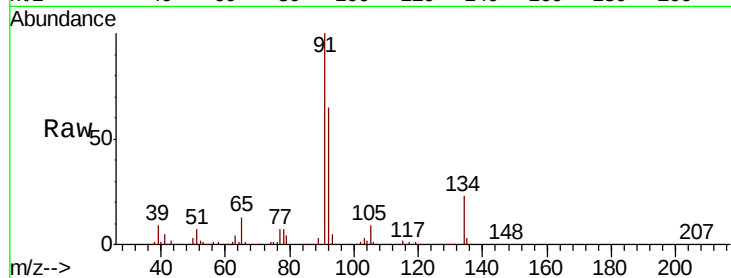
Tot Ion: 91 Resp: 627778

Ion Ratio Lower Upper

91 100

92 64.8 31.6 94.7

134 23.3 13.8 41.4



#90

Hexachloroethane

Concen: 50.928 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF060850.D

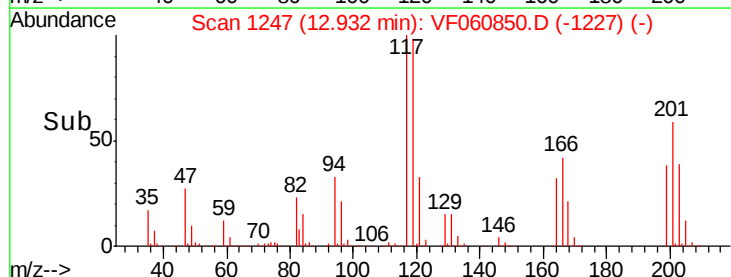
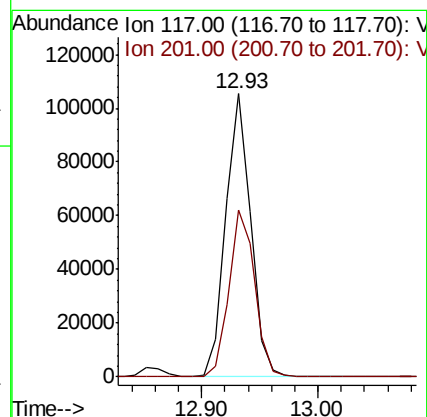
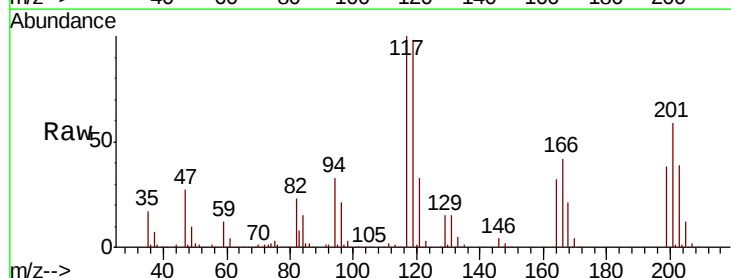
Acq: 28 Nov 2018 11:04

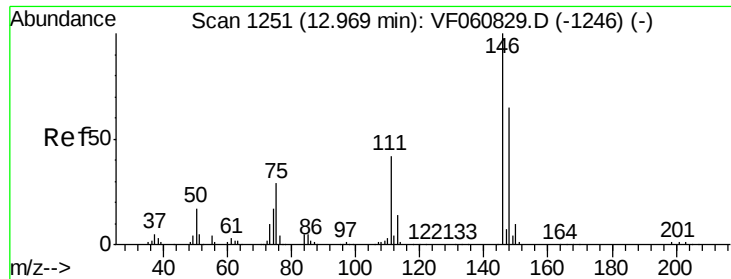
Tgt Ion: 117 Resp: 157635

Ion Ratio Lower Upper

117 100

201 58.9 26.7 80.1

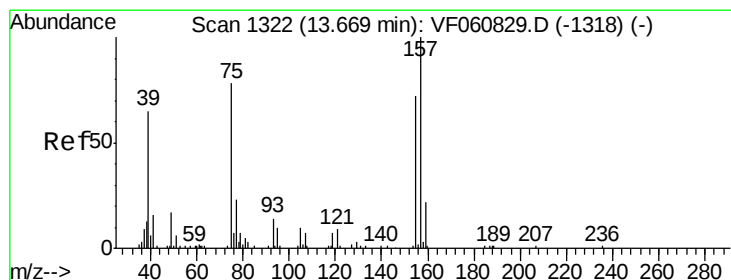
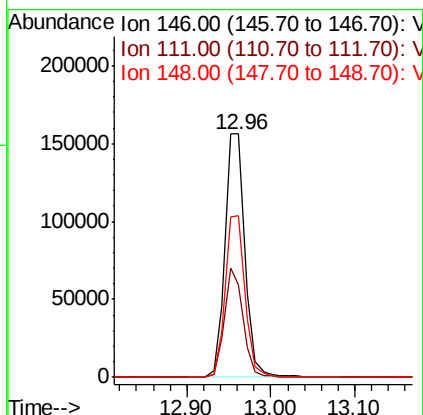
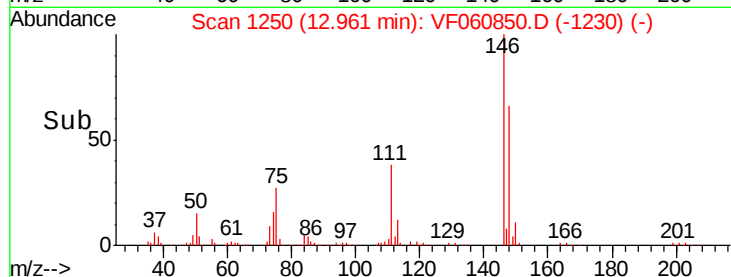
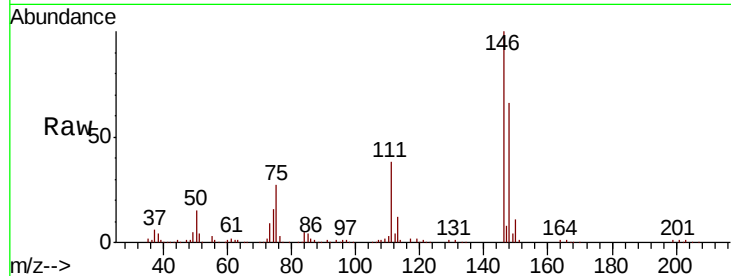




#91
 1,2-Dichlorobenzene
 Concen: 48.275 ug/l
 RT: 12.96 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

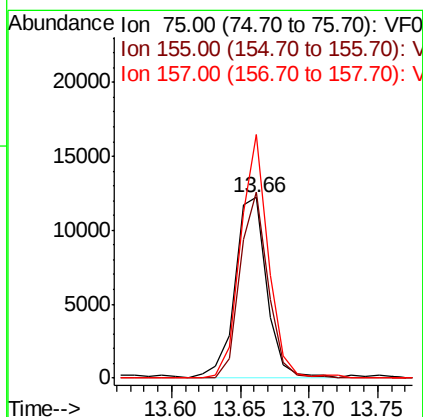
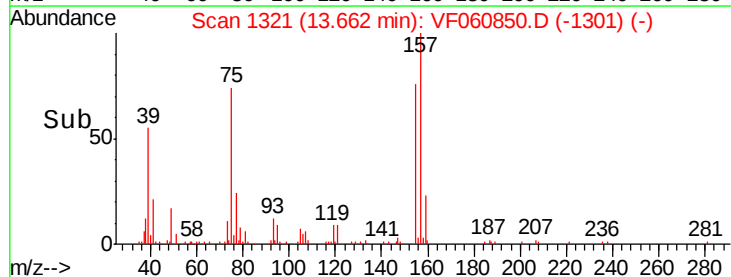
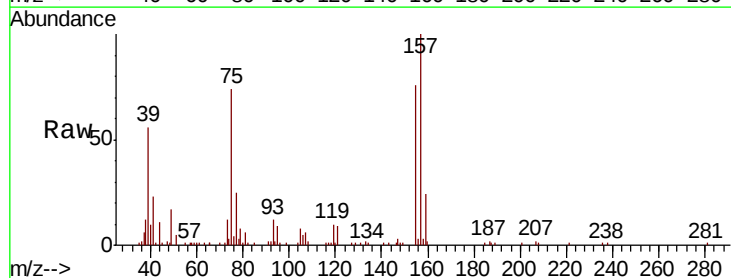
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

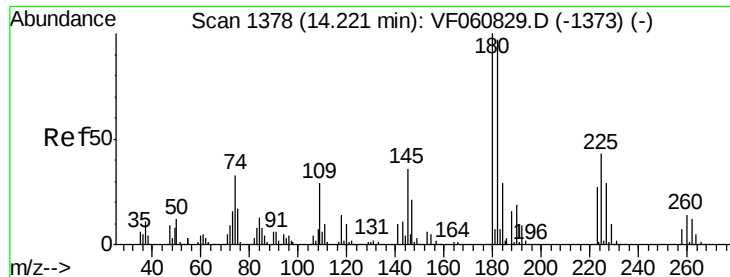
Tot Ion:146 Resp: 258201
 Ion Ratio Lower Upper
 146 100
 111 38.1 21.2 63.6
 148 66.4 32.5 97.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.166 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion: 75 Resp: 19895
 Ion Ratio Lower Upper
 75 100
 155 102.7 45.6 136.9
 157 134.6 63.8 191.5

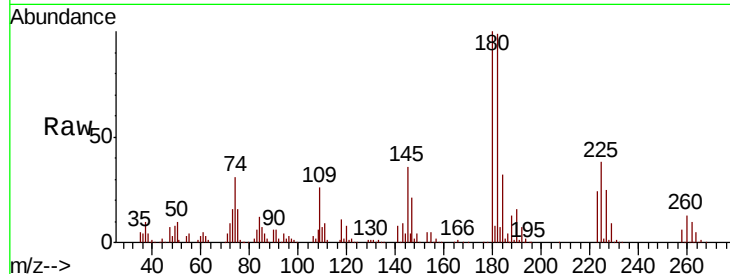




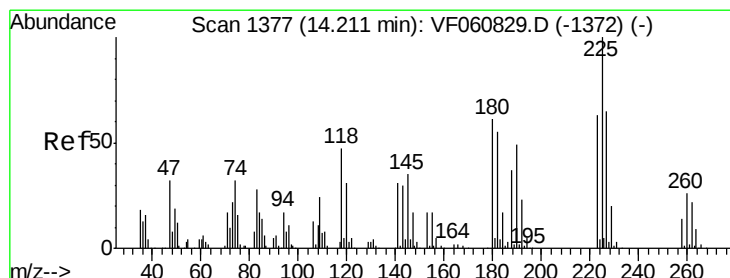
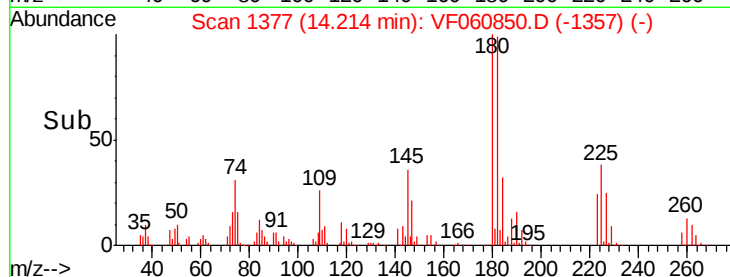
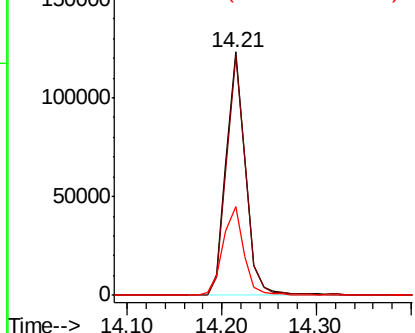
#93
 1,2,4-Trichlorobenzene
 Concen: 47.079 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 175944
 Ion Ratio Lower Upper
 180 100
 182 98.5 48.5 145.5
 145 36.2 18.1 54.3

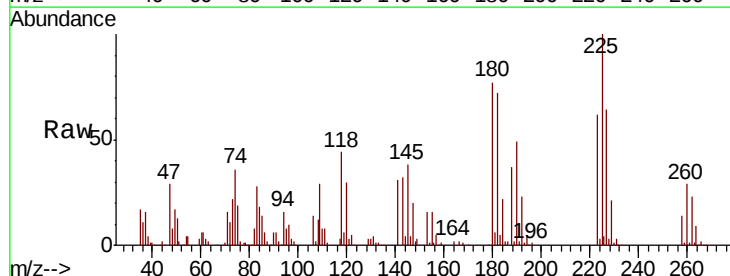


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

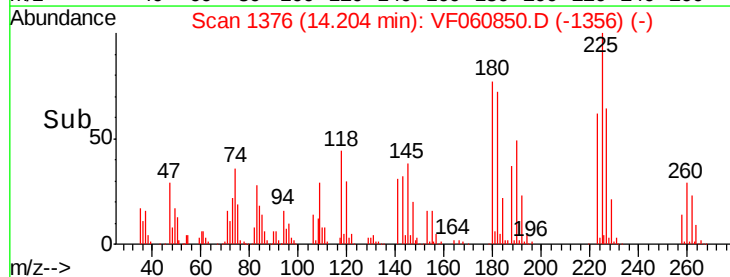
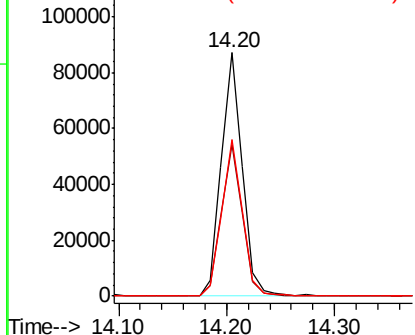


#94
 Hexachlorobutadiene
 Concen: 47.203 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF060850.D
 Acq: 28 Nov 2018 11:04

Tgt Ion:225 Resp: 117597
 Ion Ratio Lower Upper
 225 100
 223 62.3 31.4 94.3
 227 64.3 32.5 97.5



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

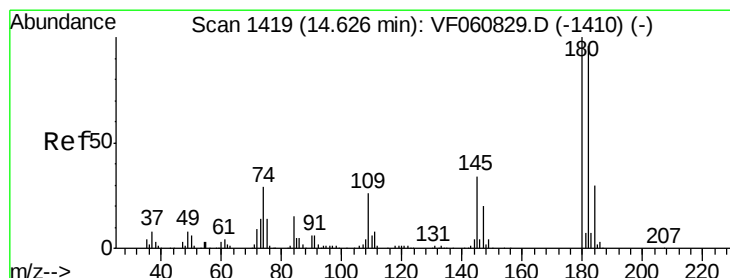
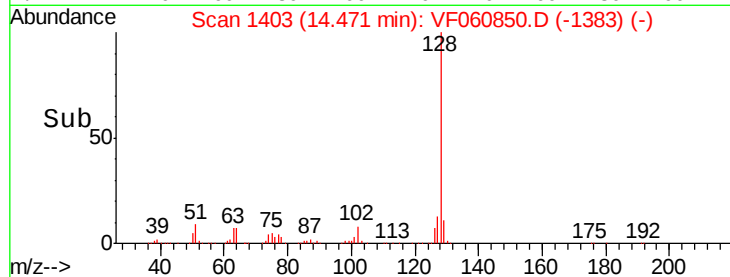
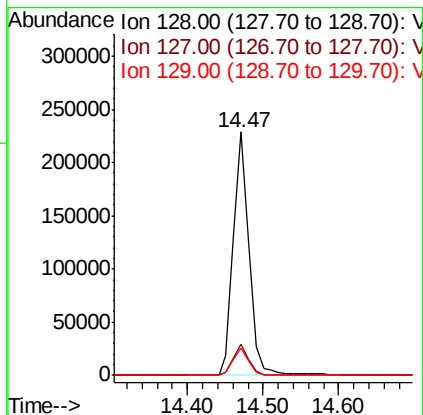
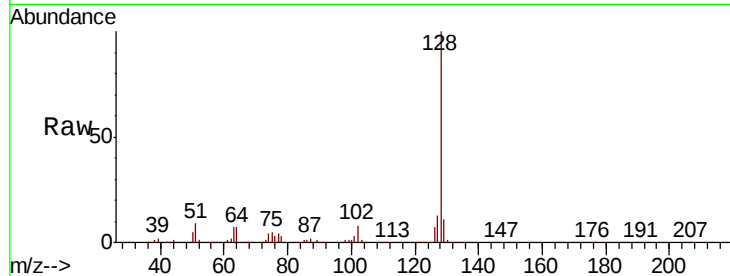




#95
Naphthalene
Concen: 44.829 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 327800
Ion Ratio Lower Upper
128 100
127 12.8 9.9 14.9
129 11.1 9.1 13.7



#96
1,2,3-Trichlorobenzene
Concen: 48.830 ug/l
RT: 14.62 min Scan# 1418
Delta R.T. -0.01 min
Lab File: VF060850.D
Acq: 28 Nov 2018 11:04

Tgt Ion:180 Resp: 169444
Ion Ratio Lower Upper
180 100
182 94.5 47.9 143.8
145 33.0 17.2 51.5

