

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061434.D
 Acq On : 17 Jan 2019 2:24
 Operator : VA/AP
 Sample : VSTDCCC050EC
 Misc : 5.00µl/5mL/MSVOA-F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Jan 17 03:01:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	184450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	353593	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	315315	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	143922	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	115495	50.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.44%	
35) Dibromofluoromethane	4.10	113	132456	47.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.94%	
50) Toluene-d8	7.54	98	384365	50.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.40	95	160586	44.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	182715	50.416	ug/l	90
3) Chloromethane	1.09	50	142468	53.612	ug/l	95
4) Vinyl Chloride	1.13	62	128042	54.166	ug/l	95
5) Bromomethane	1.31	94	83710	54.305	ug/l	93
6) Chloroethane	1.39	64	57359	54.761	ug/l	99
7) Trichlorofluoromethane	1.47	101	210411	45.786	ug/l	96
8) Diethyl Ether	1.62	74	31945	54.251	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.82	101	113157	51.246	ug/l	97
10) Methyl Iodide	1.90	142	145011	42.361	ug/l	92
11) Tert butyl alcohol	2.56	59	25883	268.516	ug/l	96
12) 1,1-Dichloroethene	1.79	96	90880	55.398	ug/l	88
13) Acrolein	1.99	56	21908	263.292	ug/l	86
14) Allyl chloride	2.09	41	128596	69.617	ug/l	85
15) Acrylonitrile	2.93	53	72151	292.216	ug/l	97
16) Acetone	2.23	43	101553	222.291	ug/l	96
17) Carbon Disulfide	1.81	76	282756	55.278	ug/l	96
18) Methyl Acetate	2.33	43	49923	55.103	ug/l	100
19) Methyl tert-butyl Ether	2.41	73	189243	51.459	ug/l	95
20) Methylene Chloride	2.17	84	33589	20.627	ug/l	92
21) trans-1,2-Dichloroethene	2.29	96	86371	47.853	ug/l	95
22) Diisopropyl ether	2.79	45	315594	54.059	ug/l	98
23) Vinyl Acetate	3.17	43	790613	307.153	ug/l	100
24) 1,1-Dichloroethane	2.86	63	195001	53.220	ug/l	97
25) 2-Butanone	4.32	43	205234	270.145	ug/l	98
26) 2,2-Dichloropropane	3.58	77	94851	42.134	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	144746	54.327	ug/l	99
28) Bromochloromethane	3.71	49	87088	52.876	ug/l #	94
29) Tetrahydrofuran	4.06	42	91427	279.483	ug/l	96
30) Chloroform	3.84	83	258818	52.340	ug/l	100
31) Cyclohexane	3.68	56	121260	33.131	ug/l	96
32) 1,1,1-Trichloroethane	4.08	97	149156	41.138	ug/l	96
36) 1,1-Dichloropropene	4.26	75	202951	49.503	ug/l	96
37) Ethyl Acetate	4.09	43	85517	52.183	ug/l #	92
38) Carbon Tetrachloride	3.97	117	150742	42.058	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	220295	49.583	ug/l	96
40) Benzene	4.61	78	439845	48.215	ug/l	100
41) Methacrylonitrile	4.73	41	43987	50.443	ug/l	94
42) 1,2-Dichloroethane	4.93	62	155143	47.725	ug/l	99
43) Isopropyl Acetate	6.94	43	105490	51.288	ug/l #	91
44) Trichloroethene	5.49	130	137969	49.301	ug/l	96
45) 1,2-Dichloropropane	6.22	63	125624	52.469	ug/l	96
46) Dibromomethane	6.07	93	79446	49.902	ug/l	97
47) Bromodichloromethane	6.37	83	202261	51.348	ug/l	98
48) Methyl methacrylate	6.70	41	70994	51.402	ug/l	94
49) 1,4-Dioxane	6.68	88	11268	1181.346	ug/l #	70
51) 4-Methyl-2-Pentanone	8.24	43	391895	259.177	ug/l	100
52) Toluene	7.61	92	293347	48.830	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	152483	48.751	ug/l	98
54) cis-1,3-Dichloropropene	7.29	75	203885	52.149	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	89694	52.576	ug/l	98
56) Ethyl methacrylate	8.61	69	98451	49.603	ug/l	96
57) 1,3-Dichloropropane	8.83	76	162273	50.748	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.28	63	62666	295.469	ug/l	92
59) 2-Hexanone	9.48	43	260329	246.897	ug/l	98
60) Dibromochloromethane	8.71	129	124471	49.907	ug/l	99
61) 1,2-Dibromoethane	8.97	107	96584	49.455	ug/l	93
64) Tetrachloroethene	8.13	164	130968	55.233	ug/l	95
65) Chlorobenzene	9.78	112	334167	52.115	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	129542	50.714	ug/l	96
67) Ethyl Benzene	9.89	91	579816	49.492	ug/l	96
68) m/p-Xylenes	10.12	106	416102	98.752	ug/l	93
69) o-Xylene	10.70	106	234643	51.380	ug/l	92
70) Styrene	10.78	104	309476	49.507	ug/l	97
71) Bromoform	10.76	173	59811	52.114	ug/l #	98
73) Isopropylbenzene	11.11	105	656118	56.052	ug/l	99
74) N-amyl acetate	11.36	43	171458	61.945	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	116563	55.898	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	78877	52.642	ug/l	94
77) Bromobenzene	11.49	156	135528	54.823	ug/l	96
78) n-propylbenzene	11.59	91	749718	52.980	ug/l	98
79) 2-Chlorotoluene	11.71	91	435904	53.672	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	496490	52.558	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	46495	71.381	ug/l	92
82) 4-Chlorotoluene	11.89	91	439711	53.652	ug/l	98
83) tert-Butylbenzene	12.12	119	540574	55.289	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	502653	51.658	ug/l	98
85) sec-Butylbenzene	12.30	105	716578	53.968	ug/l	98
86) p-Isopropyltoluene	12.45	119	588350	53.979	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	251561	51.338	ug/l	99
88) 1,4-Dichlorobenzene	12.55	146	249420	53.393	ug/l	99
89) n-Butylbenzene	12.83	91	600682	53.437	ug/l	97
90) Hexachloroethane	12.91	117	151160	58.832	ug/l	100
91) 1,2-Dichlorobenzene	12.93	146	252297	54.557	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	21230	57.399	ug/l	62

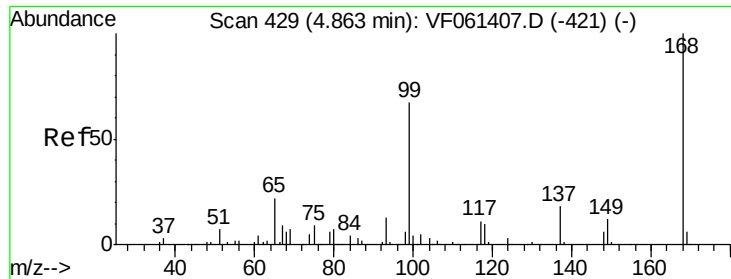
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	171252	52.863	ug/l	98
94) Hexachlorobutadiene	14.18	225	107069	53.262	ug/l	100
95) Naphthalene	14.45	128	342913	55.714	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	160773	53.611	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

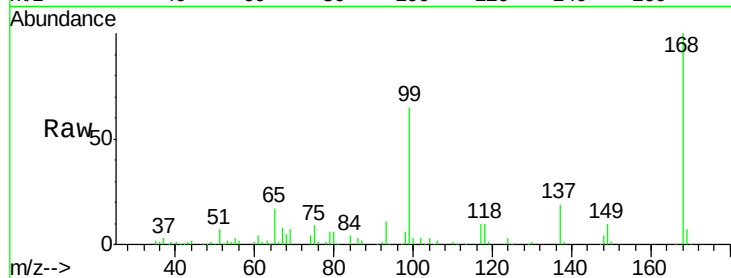
VSTDCCC050EC

Tot Ion:168 Resp: 184450

Ion Ratio Lower Upper

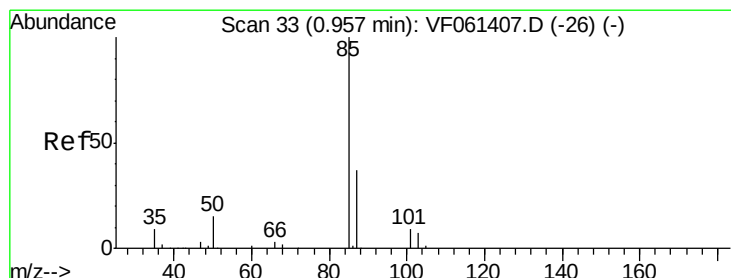
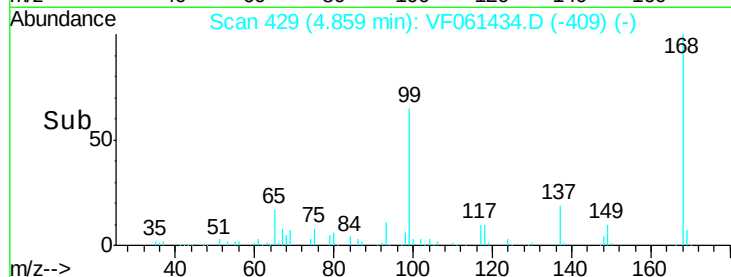
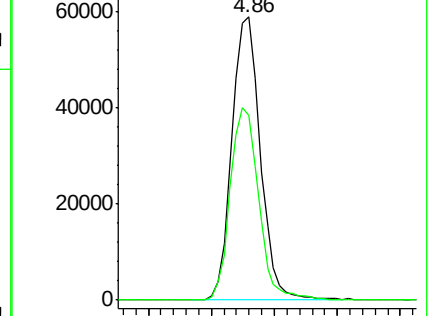
168 100

99 65.2 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 50.416 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061434.D

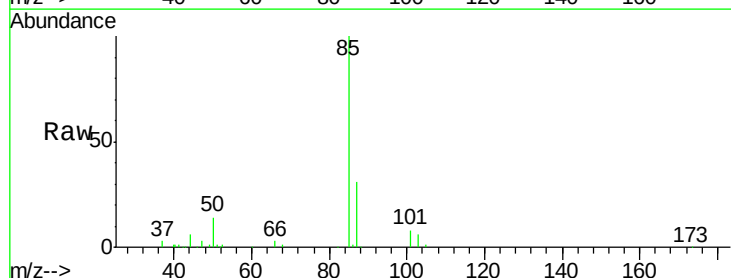
Acq: 17 Jan 2019 2:24

Tgt Ion: 85 Resp: 182715

Ion Ratio Lower Upper

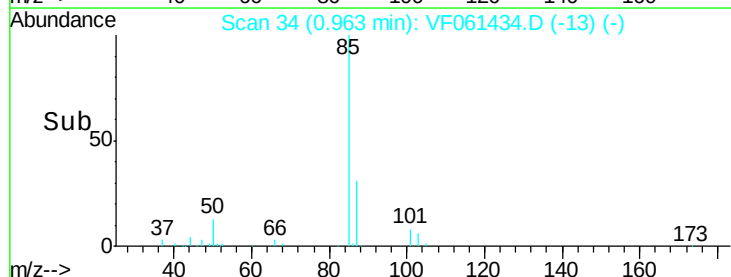
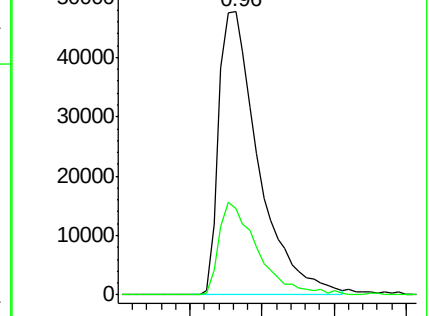
85 100

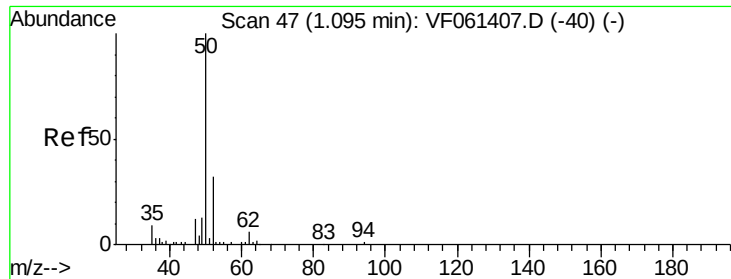
87 30.6 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 53.612 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

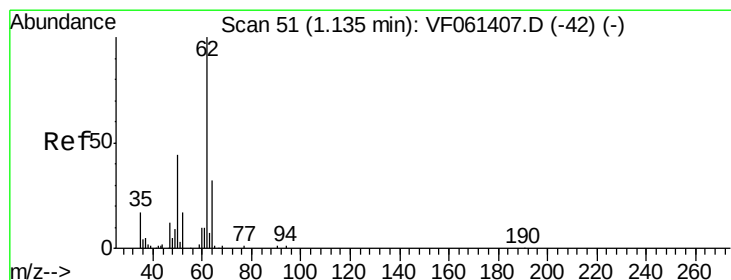
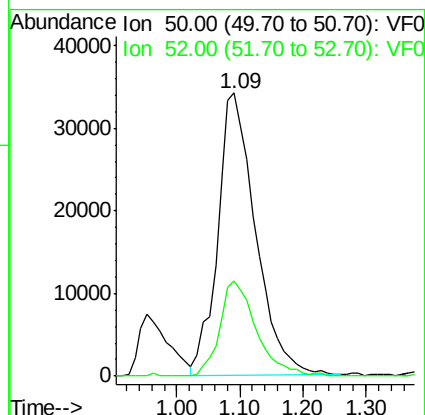
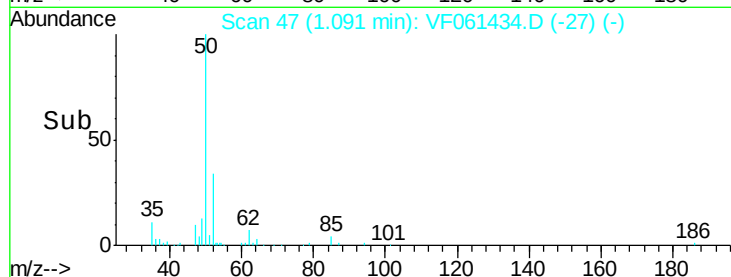
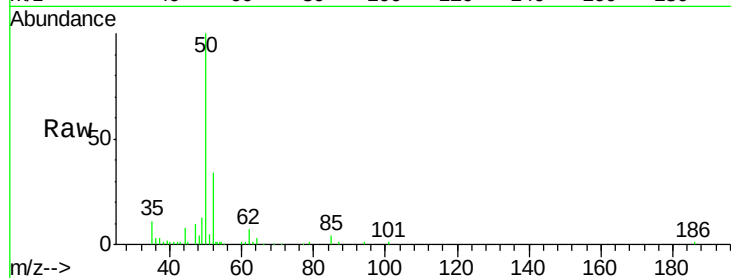
VSTDCCC050EC

Tot Ion: 50 Resp: 142468

Ion Ratio Lower Upper

50 100

52 33.6 24.6 36.8



#4

Vinyl Chloride

Concen: 54.166 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061434.D

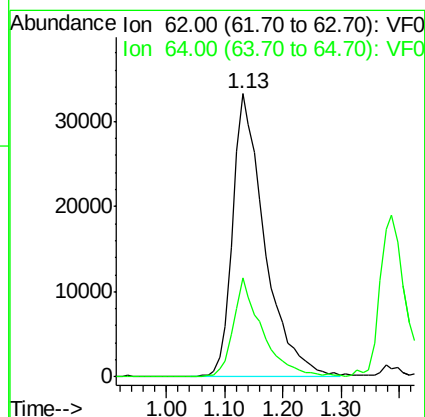
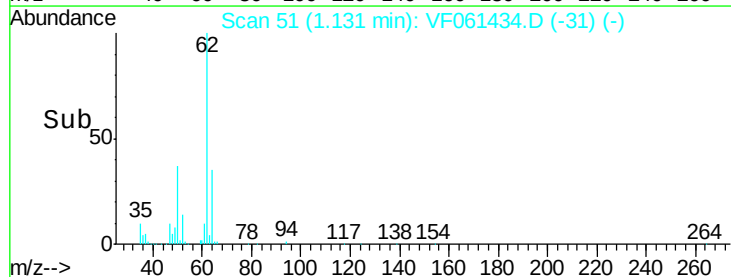
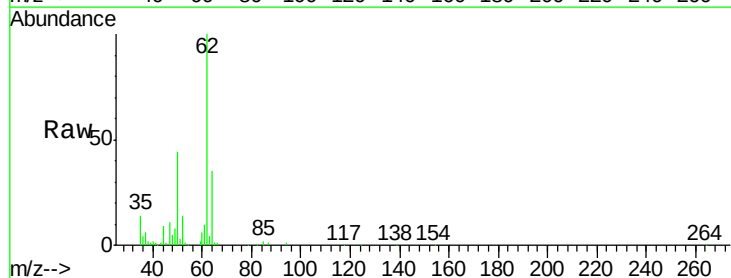
Acq: 17 Jan 2019 2:24

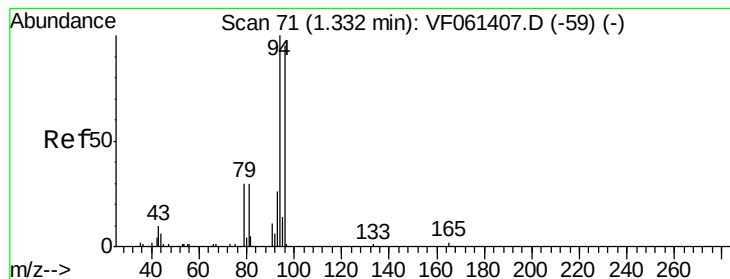
Tgt Ion: 62 Resp: 128042

Ion Ratio Lower Upper

62 100

64 34.9 25.6 38.4





#5

Bromomethane

Concen: 54.305 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

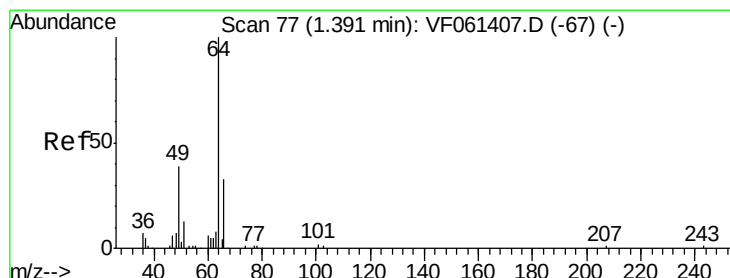
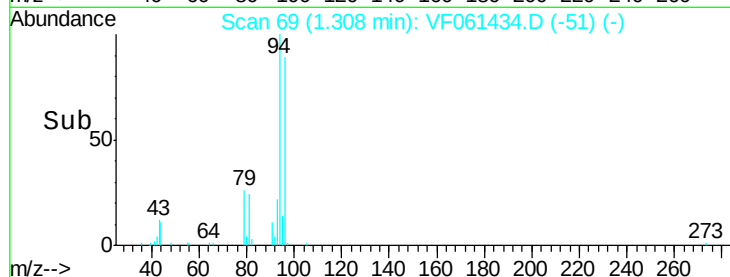
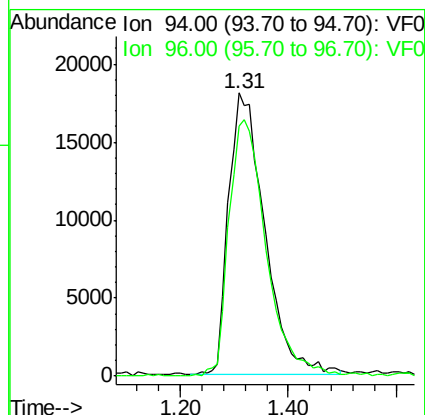
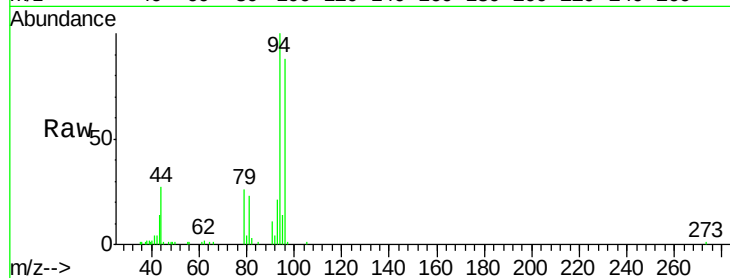
VSTDCCC050EC

Tot Ion: 94 Resp: 83710

Ion Ratio Lower Upper

94 100

96 88.4 76.0 114.0



#6

Chloroethane

Concen: 54.761 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061434.D

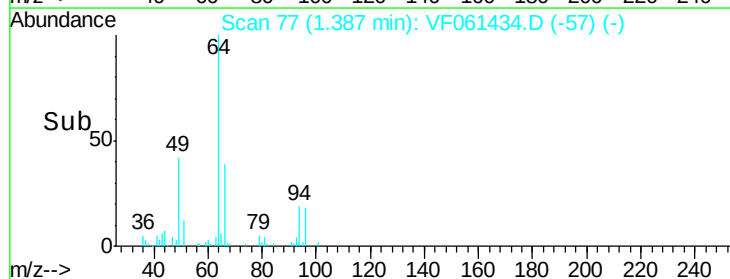
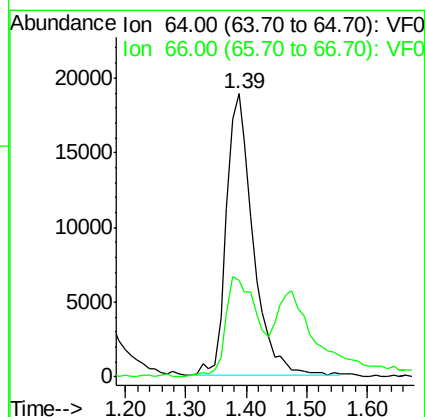
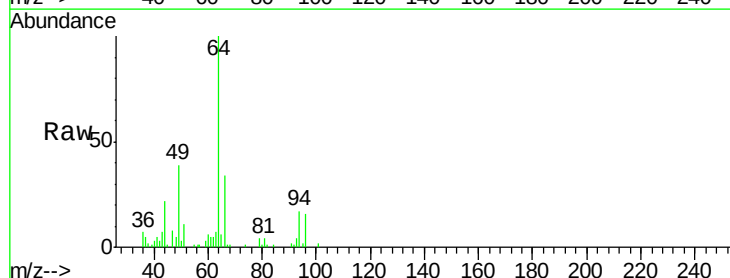
Acq: 17 Jan 2019 2:24

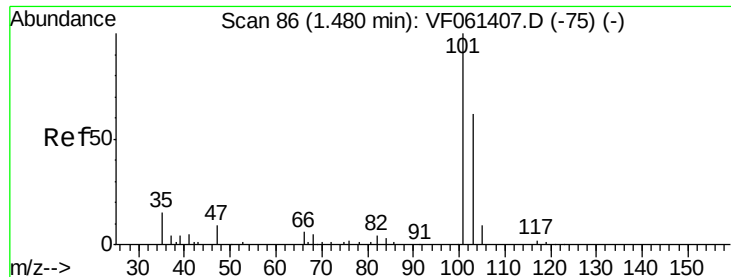
Tgt Ion: 64 Resp: 57359

Ion Ratio Lower Upper

64 100

66 34.0 26.6 40.0





#7

Trichlorofluoromethane

Concen: 45.786 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

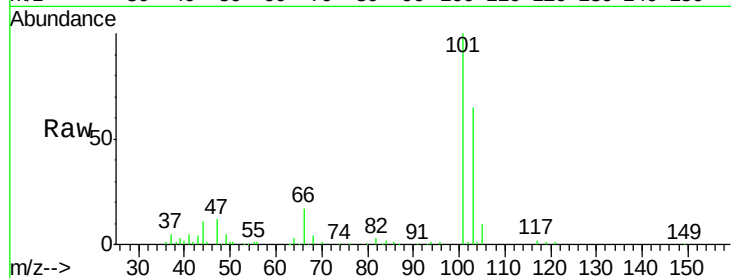
VSTDCCC050EC

Tot Ion:101 Resp: 210411

Ion Ratio Lower Upper

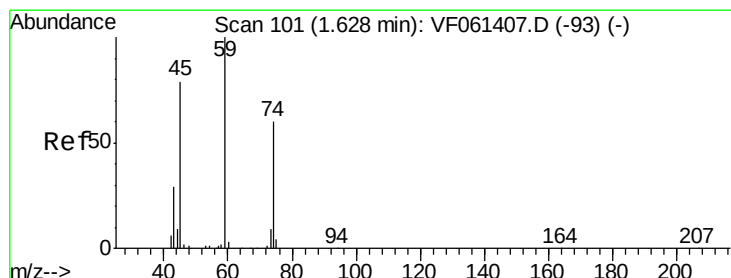
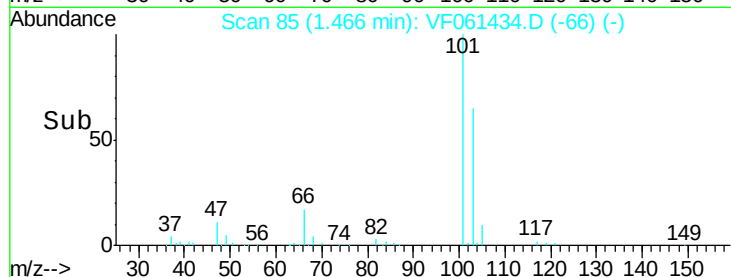
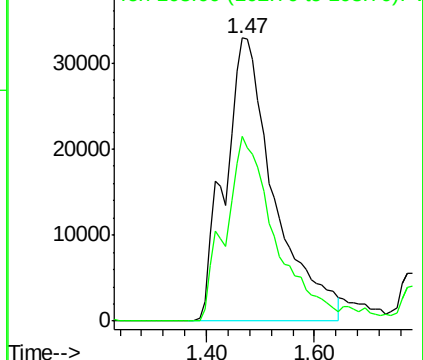
101 100

103 65.4 49.7 74.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 54.251 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061434.D

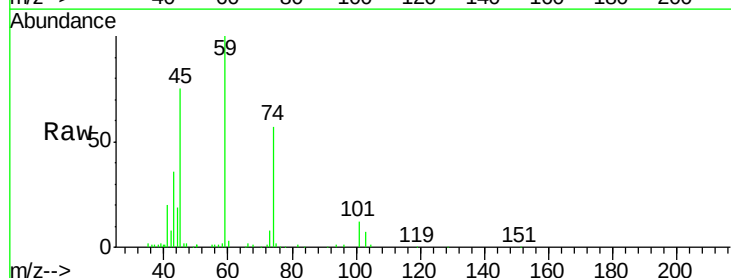
Acq: 17 Jan 2019 2:24

Tgt Ion: 74 Resp: 31945

Ion Ratio Lower Upper

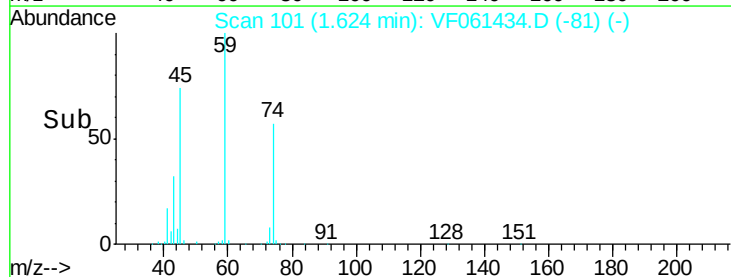
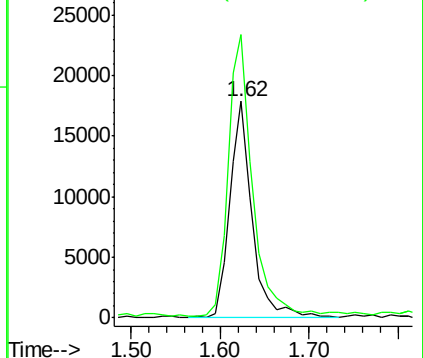
74 100

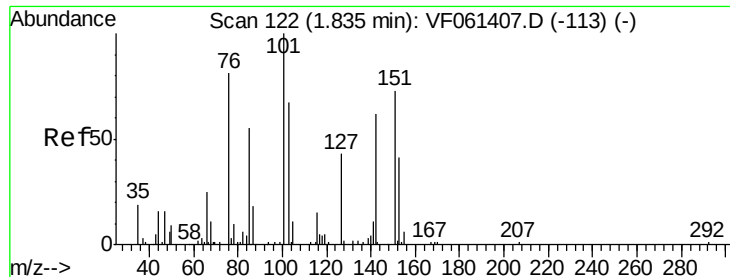
45 130.8 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.246 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

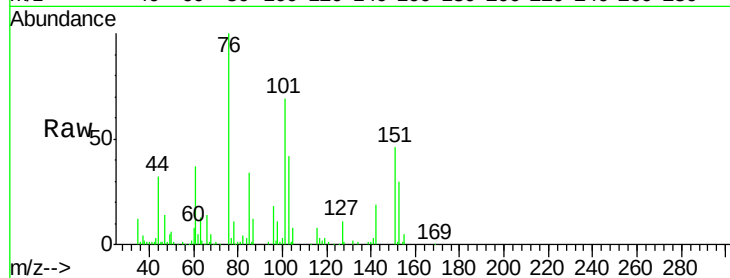
Tot Ion:101 Resp: 113157

Ion Ratio Lower Upper

101 100

85 49.8 41.9 62.9

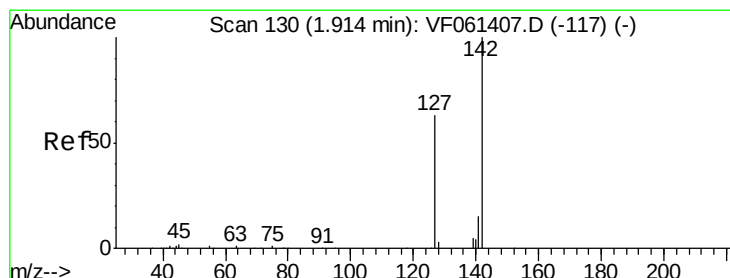
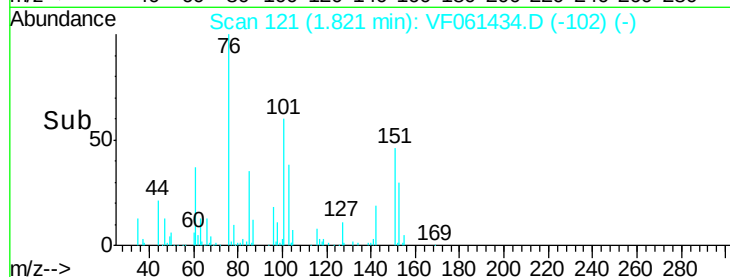
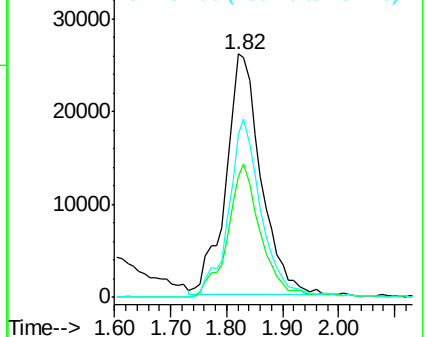
151 66.8 55.1 82.7



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: 42.361 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

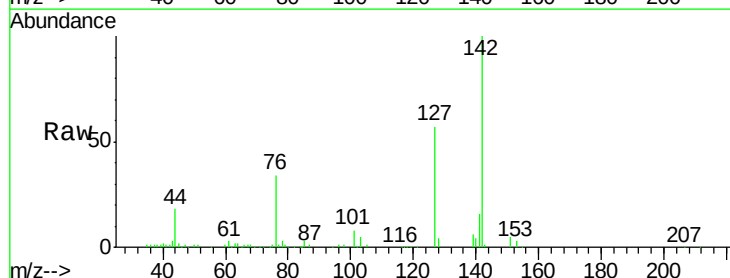
Tgt Ion:142 Resp: 145011

Ion Ratio Lower Upper

142 100

127 56.8 50.7 76.1

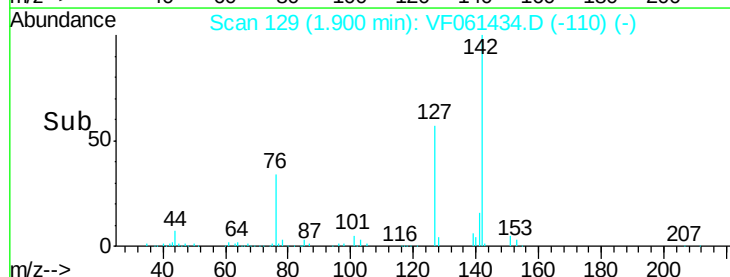
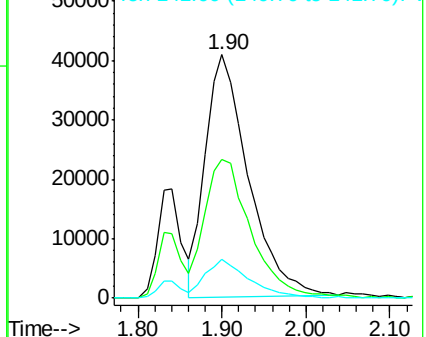
141 16.1 11.8 17.6

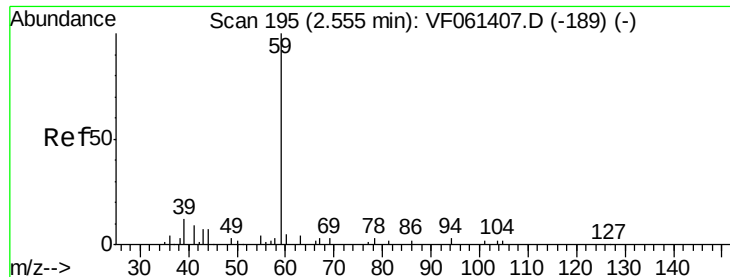


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



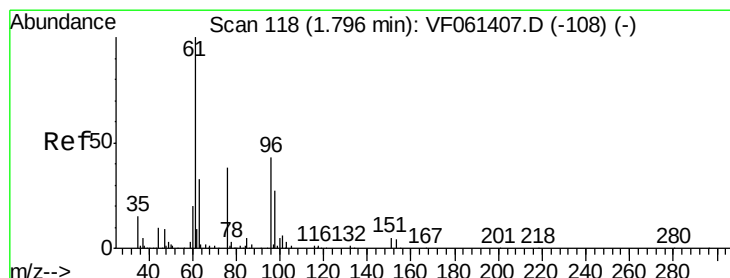
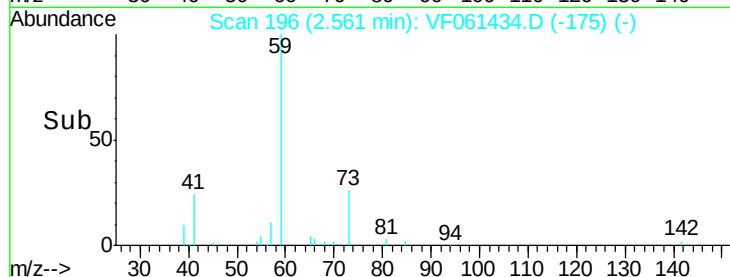
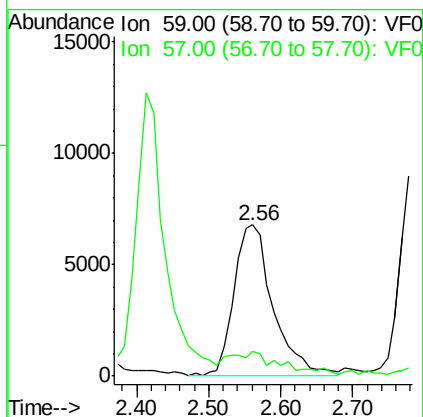
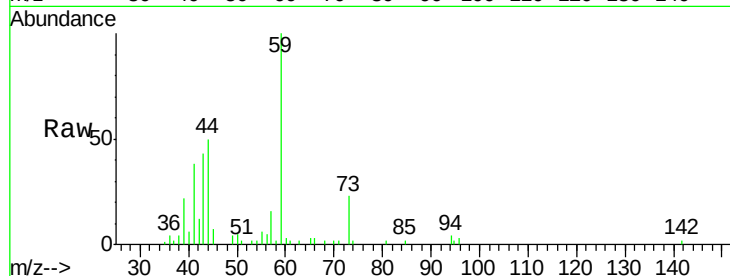


#11

Tert butyl alcohol
Concen: 268.516 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

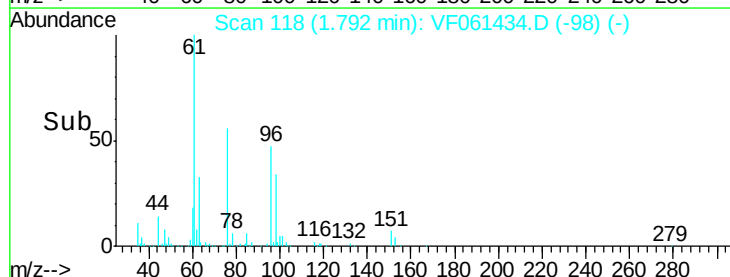
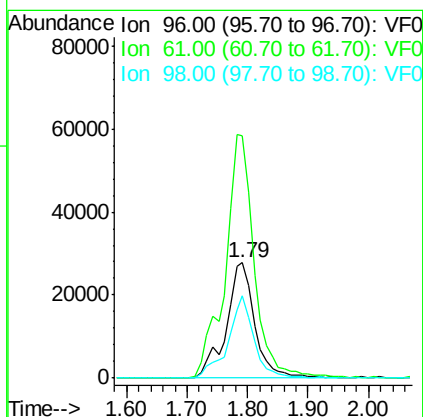
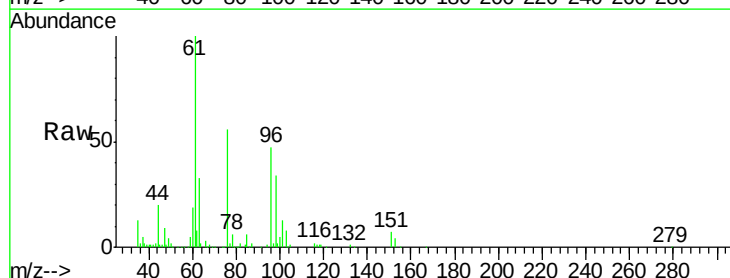
Tot Ion: 59 Resp: 25883
Ion Ratio Lower Upper
59 100
57 16.4 11.9 17.9

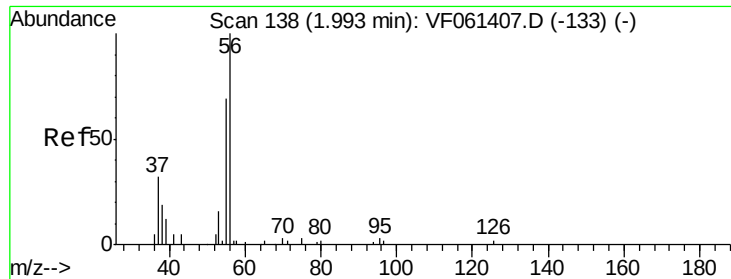


#12

1,1-Dichloroethene
Concen: 55.398 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion: 96 Resp: 90880
Ion Ratio Lower Upper
96 100
61 211.1 186.9 280.3
98 72.1 53.0 79.4





#13

Acrolein

Concen: 263.292 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

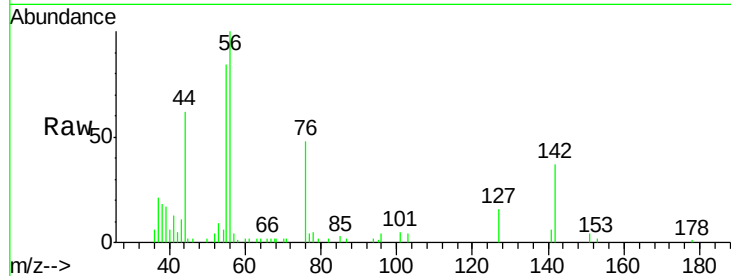
VSTDCCC050EC

Tot Ion: 56 Resp: 21908

Ion Ratio Lower Upper

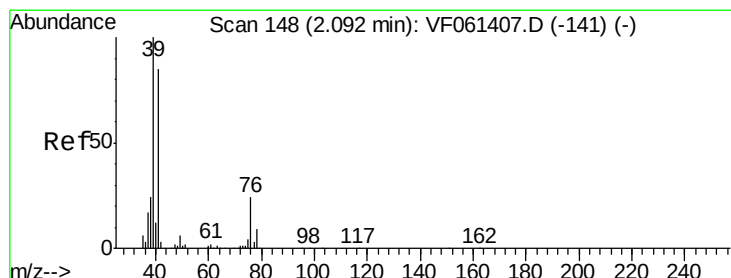
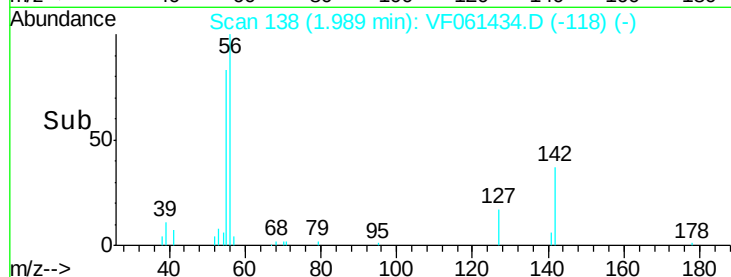
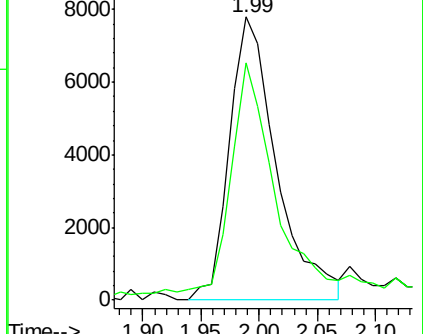
56 100

55 83.8 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 69.617 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

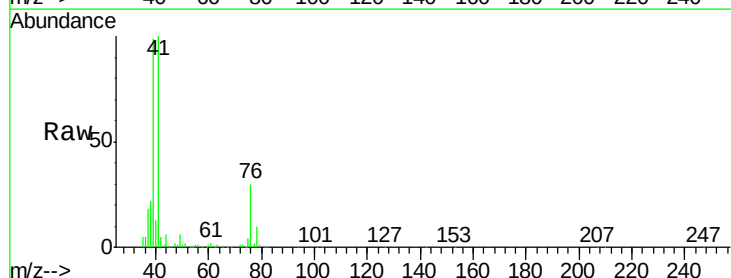
Tgt Ion: 41 Resp: 128596

Ion Ratio Lower Upper

41 100

39 98.7 94.6 141.8

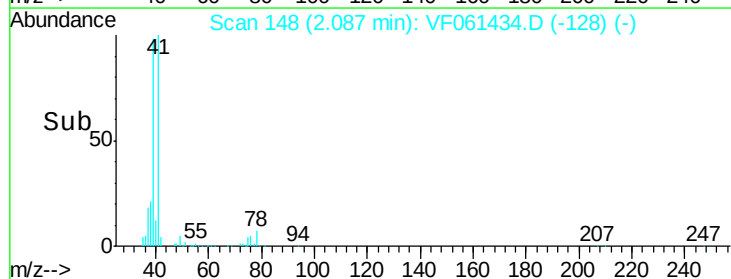
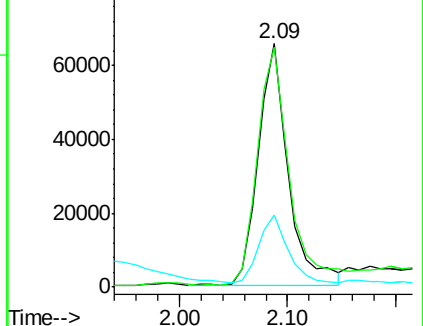
76 29.6 25.9 38.9

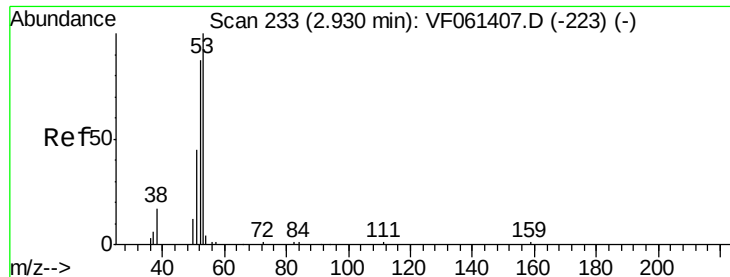


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 292.216 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

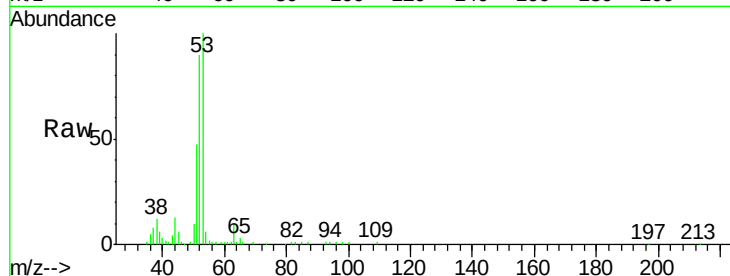
Tot Ion: 53 Resp: 72151

Ion Ratio Lower Upper

53 100

52 90.4 69.6 104.4

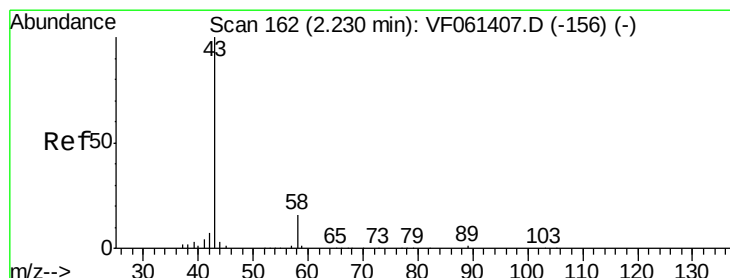
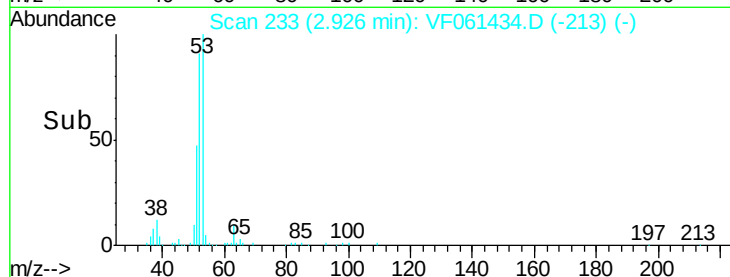
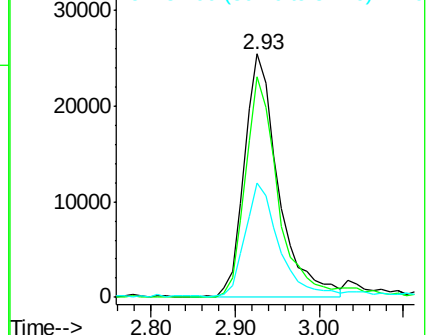
51 46.8 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 222.291 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061434.D

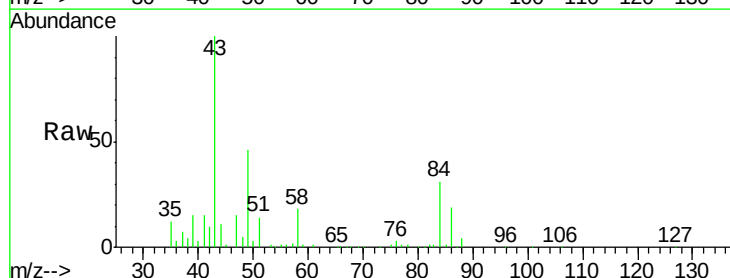
Acq: 17 Jan 2019 2:24

Tgt Ion: 43 Resp: 101553

Ion Ratio Lower Upper

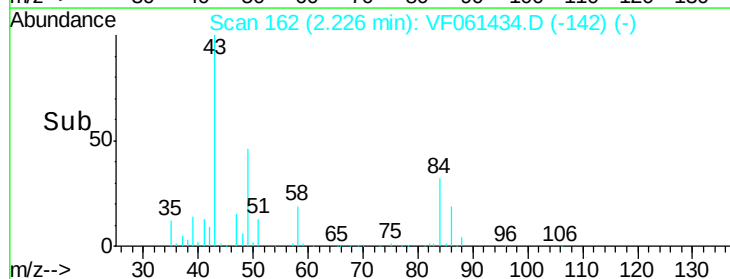
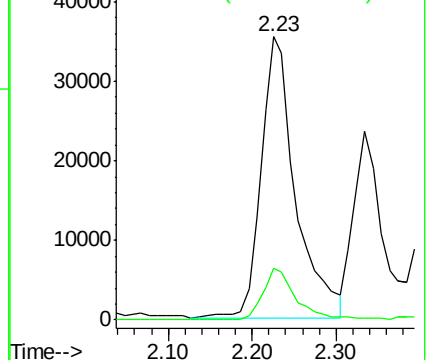
43 100

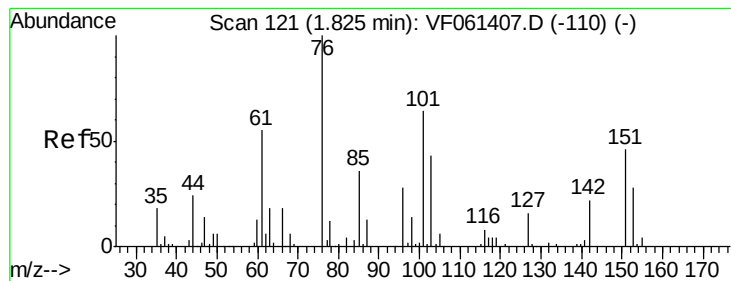
58 18.3 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 55.278 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

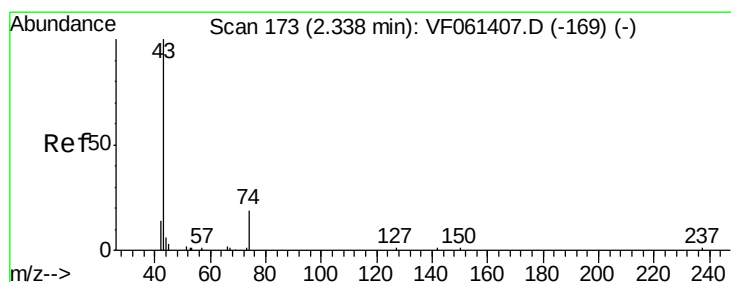
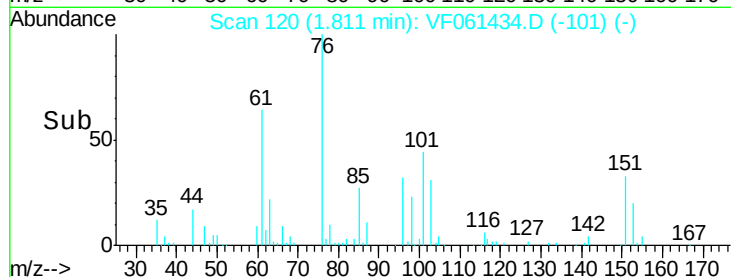
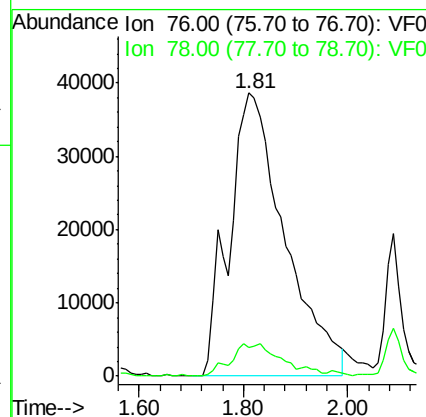
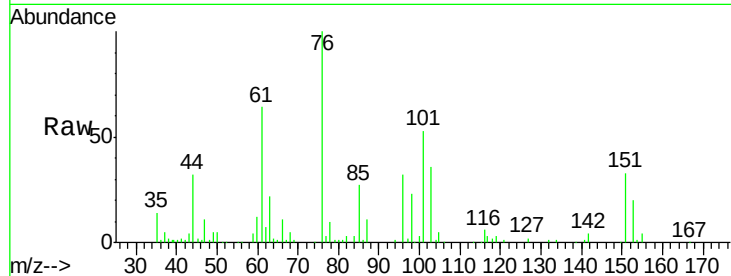
VSTDCCC050EC

Tot Ion: 76 Resp: 282756

Ion Ratio Lower Upper

76 100

78 10.3 9.6 14.4



#18

Methyl Acetate

Concen: 55.103 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061434.D

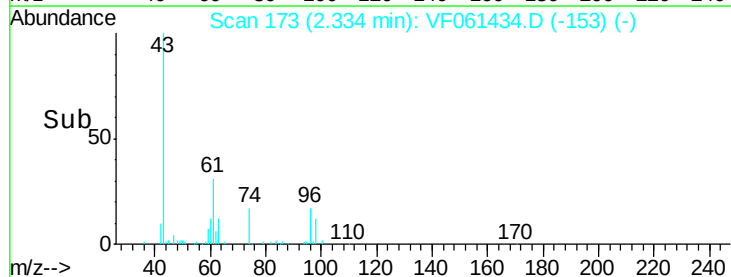
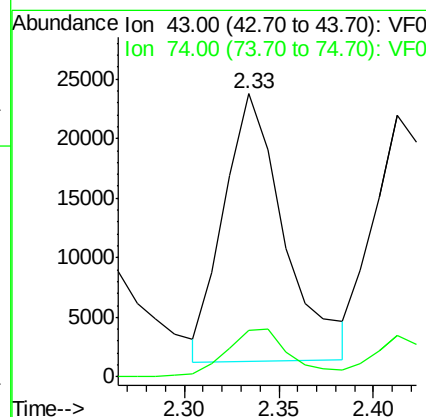
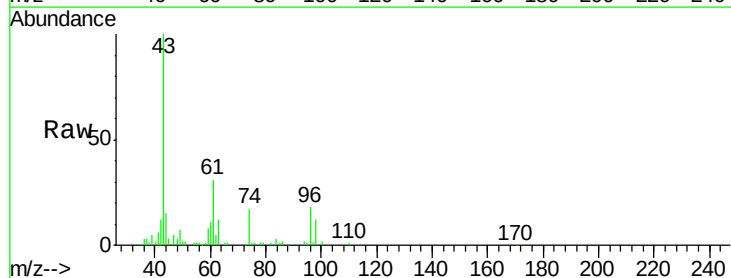
Acq: 17 Jan 2019 2:24

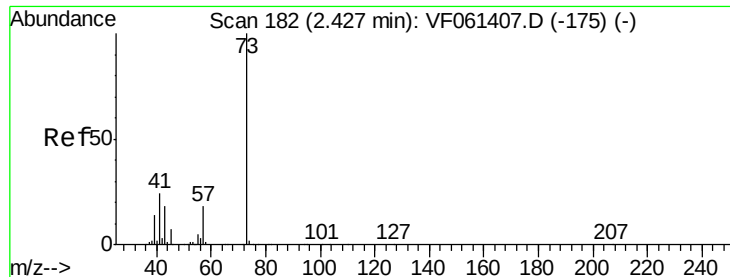
Tgt Ion: 43 Resp: 49923

Ion Ratio Lower Upper

43 100

74 16.5 13.4 20.0

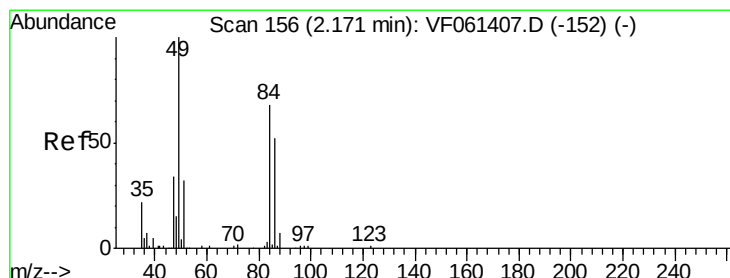
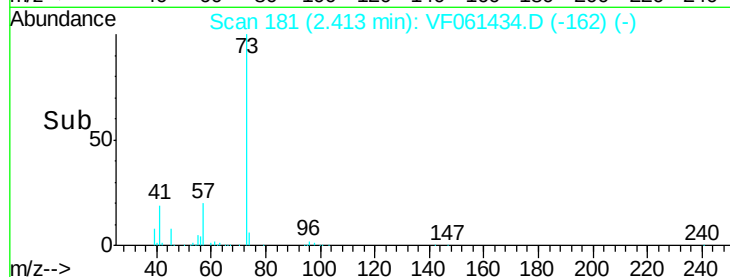
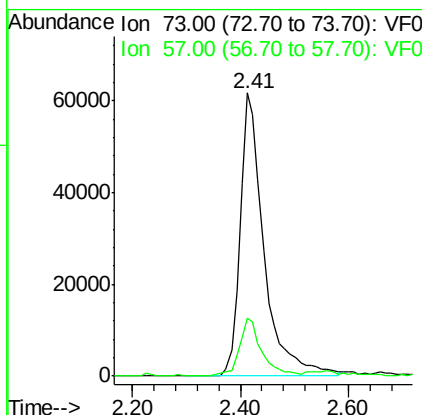
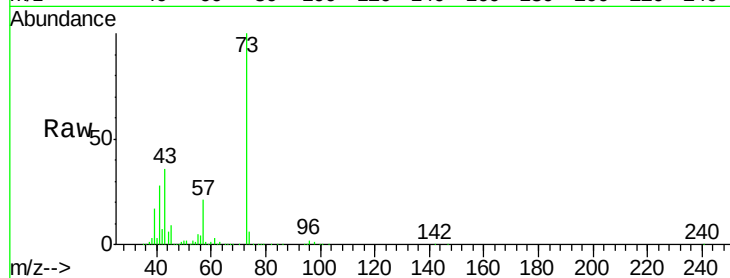




#19
Methyl tert-butyl Ether
Concen: 51.459 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

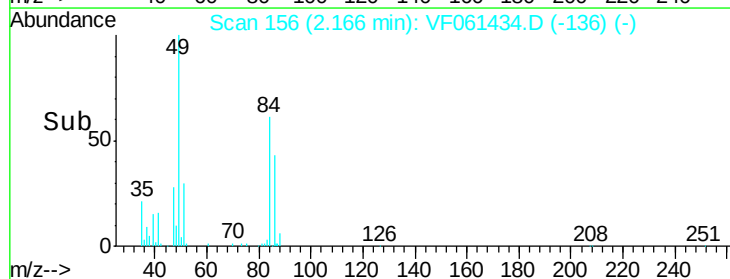
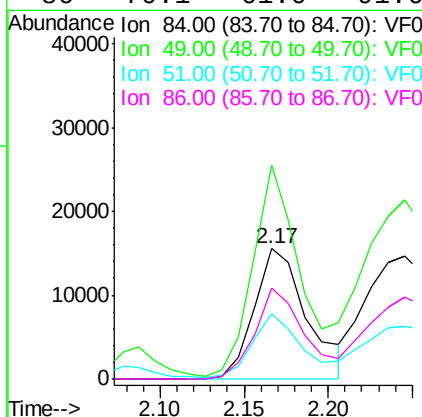
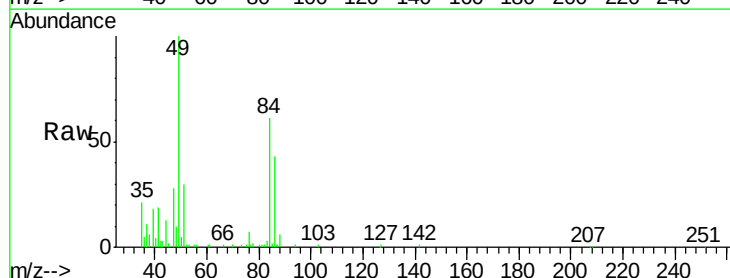
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

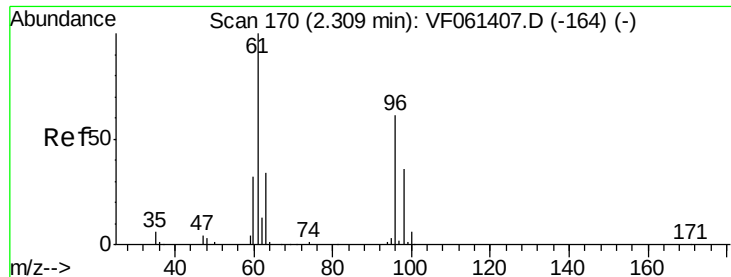
Tot Ion: 73 Resp: 189243
Ion Ratio Lower Upper
73 100
57 20.6 14.8 22.2



#20
Methylene Chloride
Concen: 20.627 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion: 84 Resp: 33589
Ion Ratio Lower Upper
84 100
49 163.8 120.0 180.0
51 49.7 38.6 58.0
86 70.1 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 47.853 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

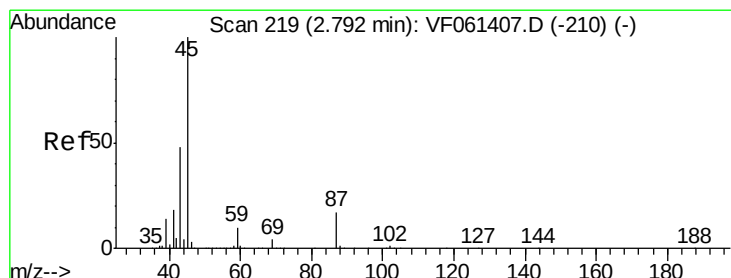
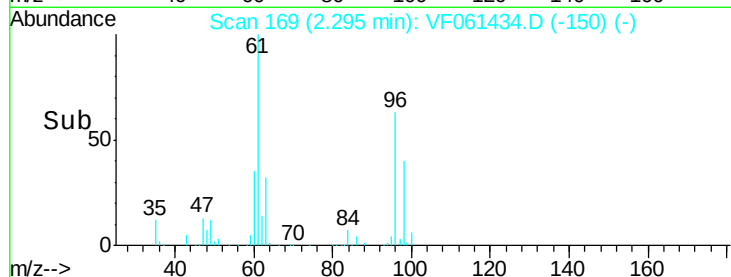
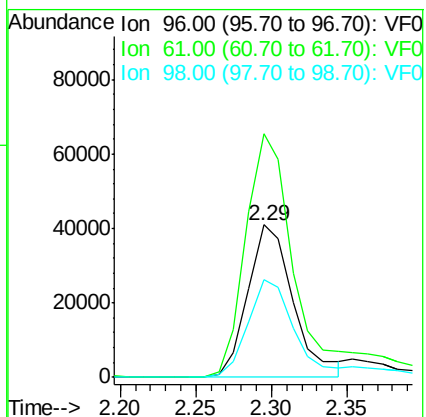
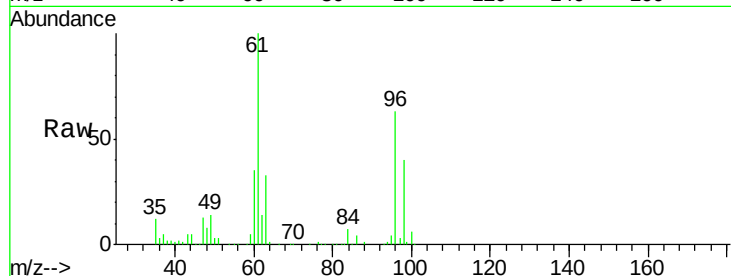
Tot Ion: 96 Resp: 86371

Ion Ratio Lower Upper

96 100

61 159.6 131.8 197.8

98 64.3 47.4 71.0



#22

Diisopropyl ether

Concen: 54.059 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Tgt Ion: 45 Resp: 315594

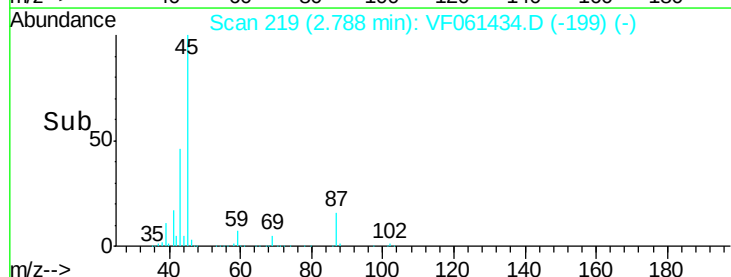
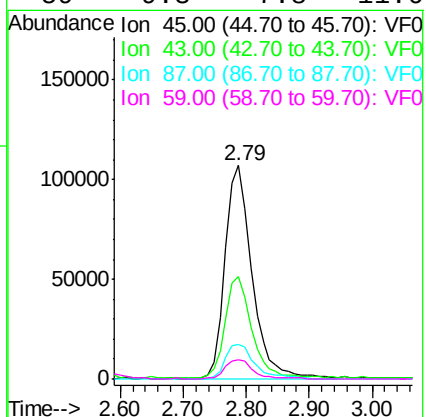
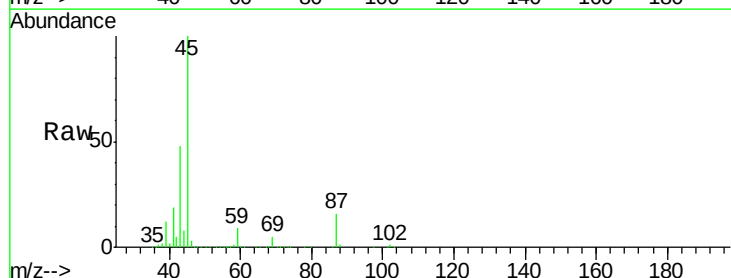
Ion Ratio Lower Upper

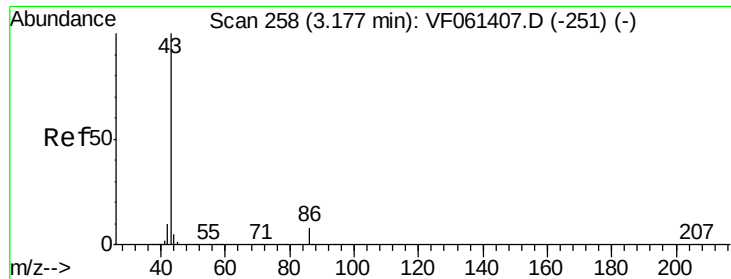
45 100

43 48.0 39.0 58.6

87 15.9 13.9 20.9

59 9.3 7.8 11.6

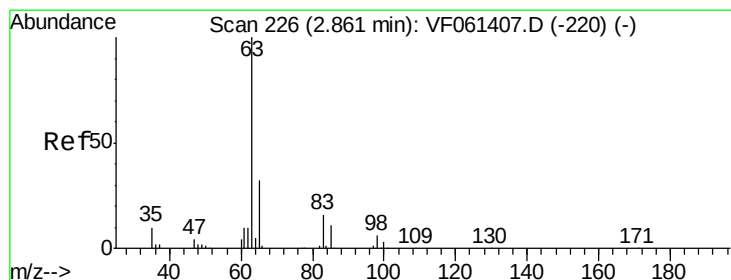
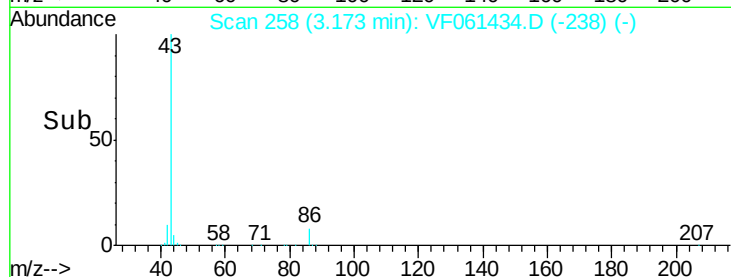
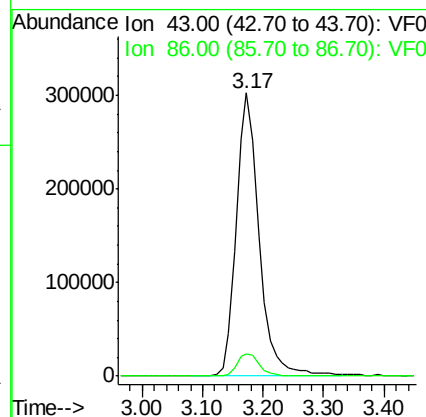
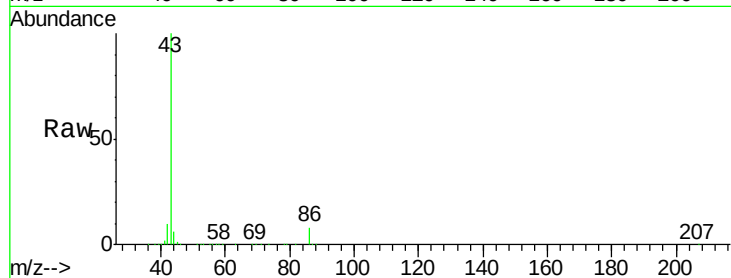




#23
 Vinyl Acetate
 Concen: 307.153 ug/l
 RT: 3.17 min Scan# 258
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

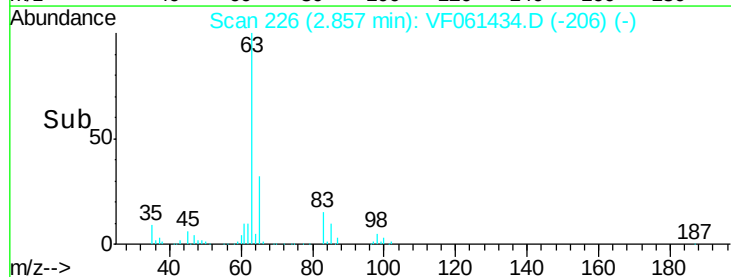
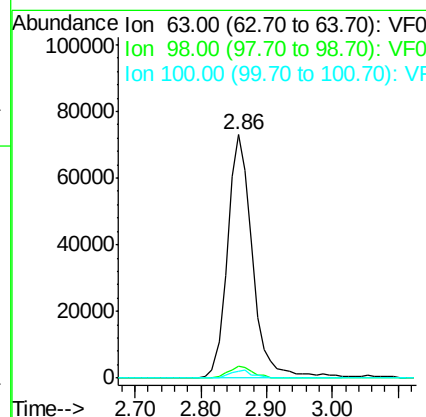
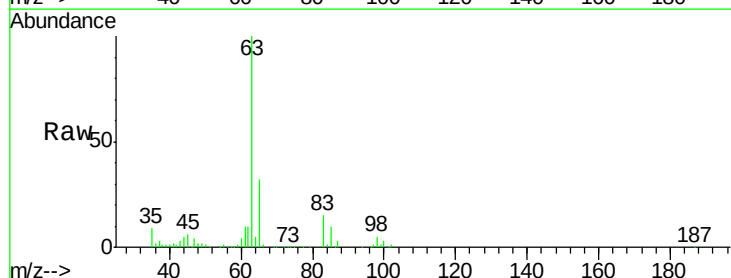
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

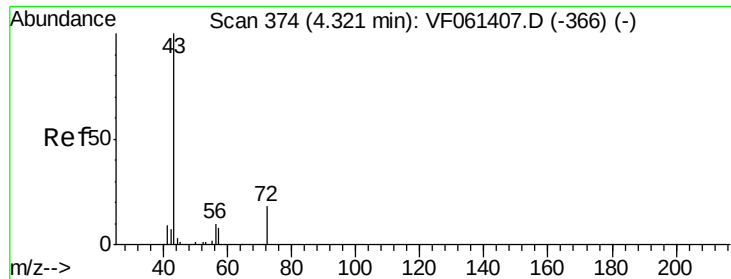
Tot Ion: 43 Resp: 790613
 Ion Ratio Lower Upper
 43 100
 86 7.8 6.2 9.4



#24
 1,1-Dichloroethane
 Concen: 53.220 ug/l
 RT: 2.86 min Scan# 226
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Tgt Ion: 63 Resp: 195001
 Ion Ratio Lower Upper
 63 100
 98 4.8 2.9 8.8
 100 2.8 1.6 4.8





#25

2-Butanone

Concen: 270.145 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

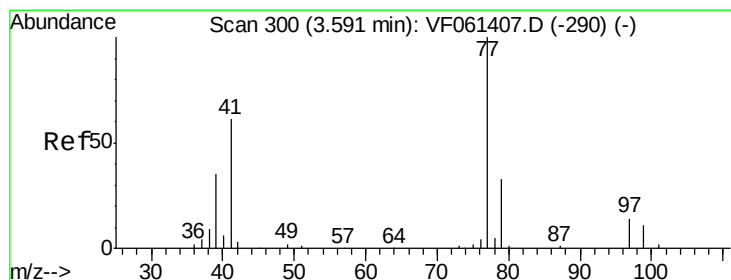
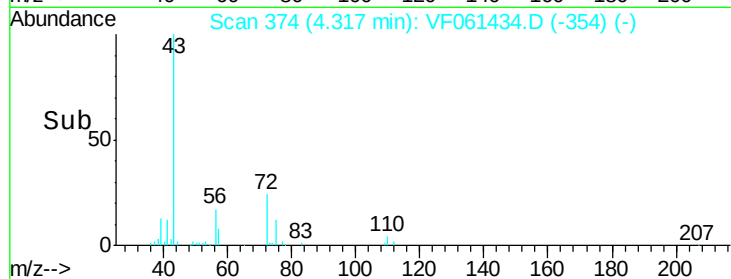
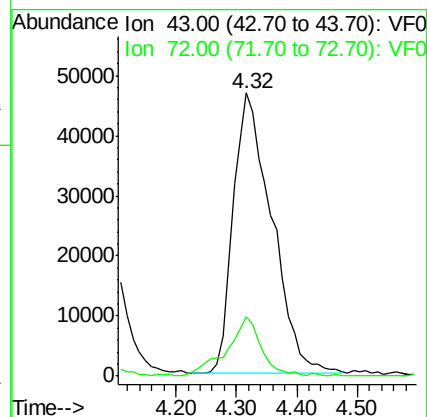
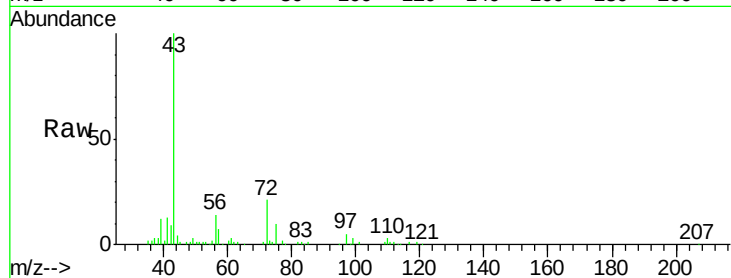
VSTDCCC050EC

Tot Ion: 43 Resp: 205234

Ion Ratio Lower Upper

43 100

72 20.8 15.8 23.6



#26

2,2-Dichloropropane

Concen: 42.134 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061434.D

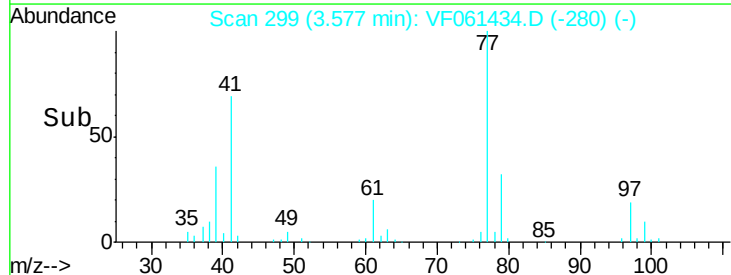
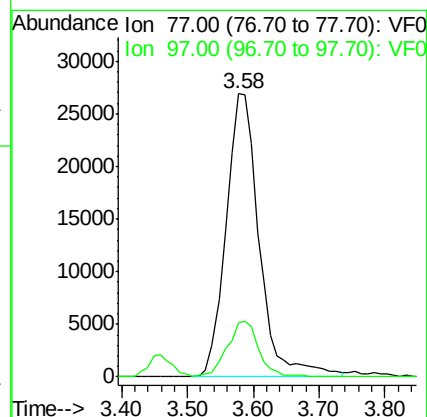
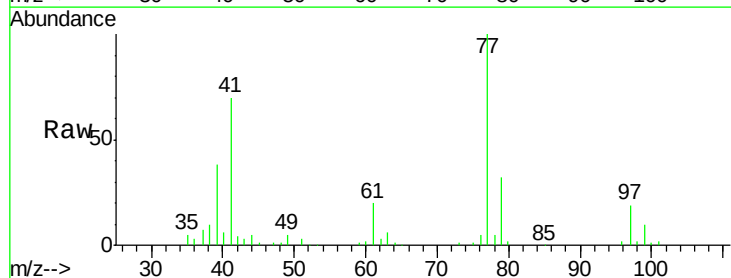
Acq: 17 Jan 2019 2:24

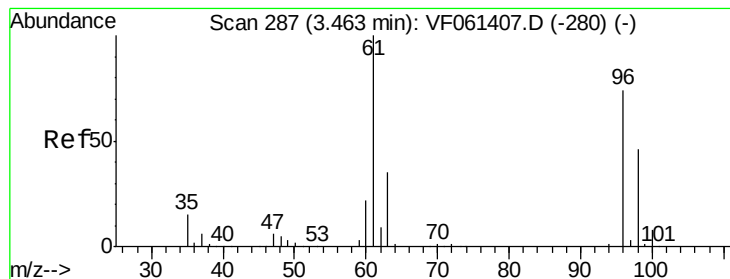
Tgt Ion: 77 Resp: 94851

Ion Ratio Lower Upper

77 100

97 19.3 8.5 25.5



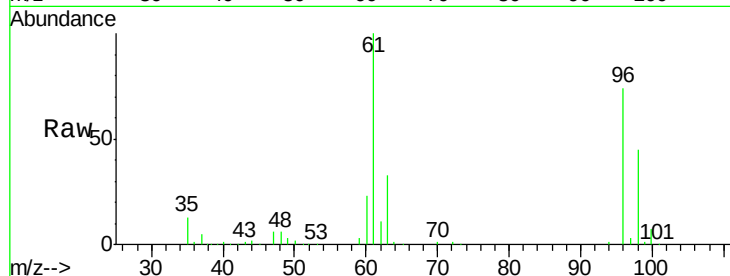


#27

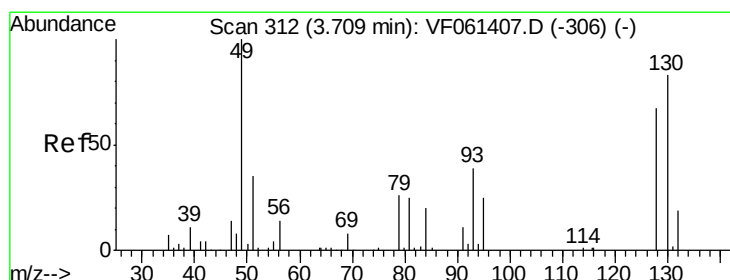
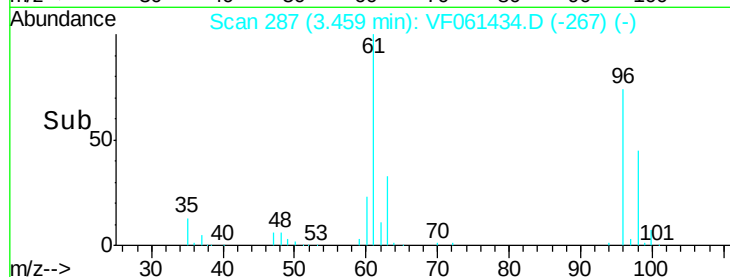
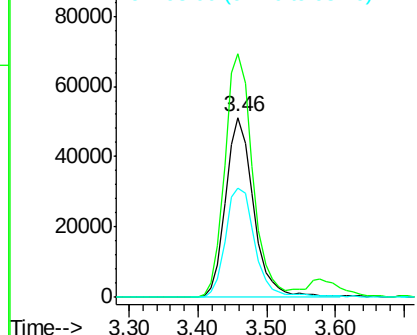
cis-1,2-Dichloroethene
Concen: 54.327 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 96 Resp: 144746
Ion Ratio Lower Upper
96 100
61 135.3 0.0 270.2
98 60.7 0.0 124.0



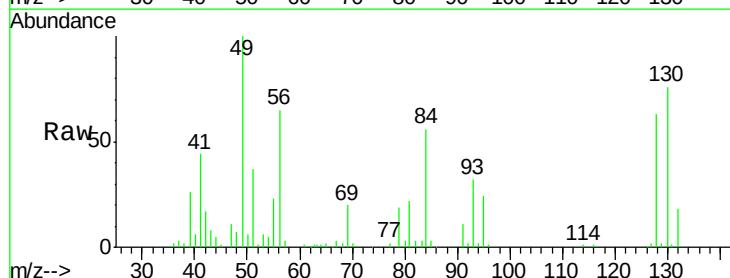
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



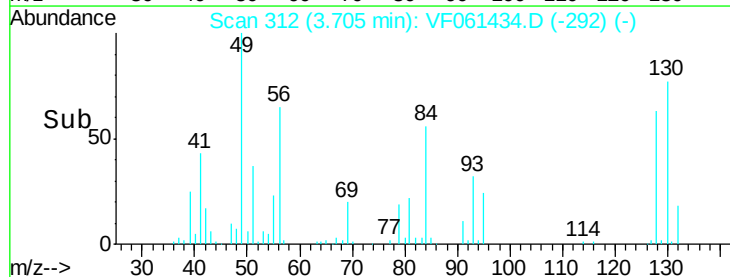
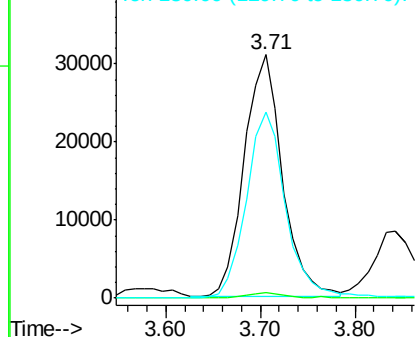
#28

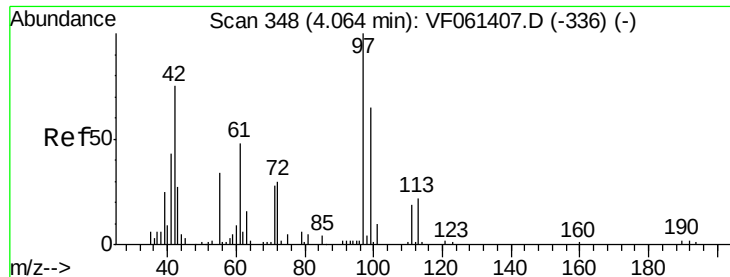
Bromochloromethane
Concen: 52.876 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion: 49 Resp: 87088
Ion Ratio Lower Upper
49 100
129 2.4 0.0 0.0#
130 76.5 65.4 98.2



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





#29

Tetrahydrofuran

Concen: 279.483 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

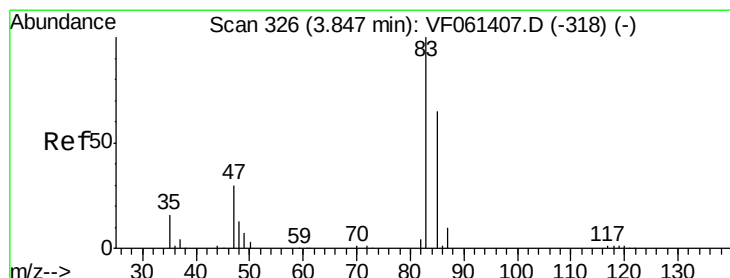
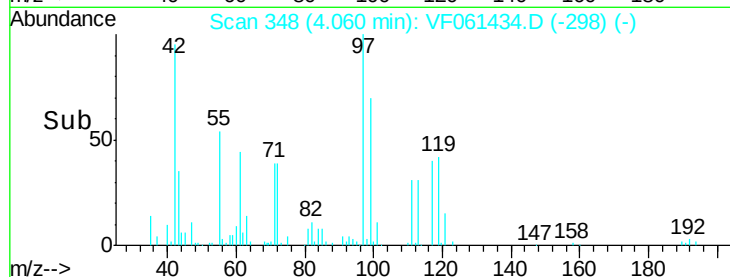
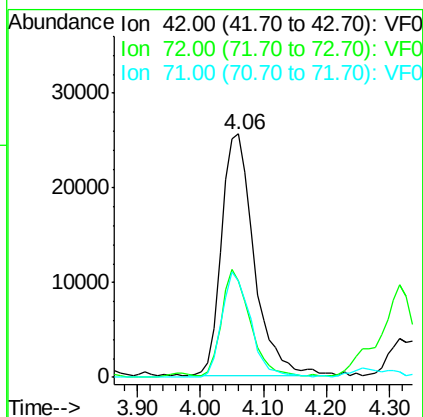
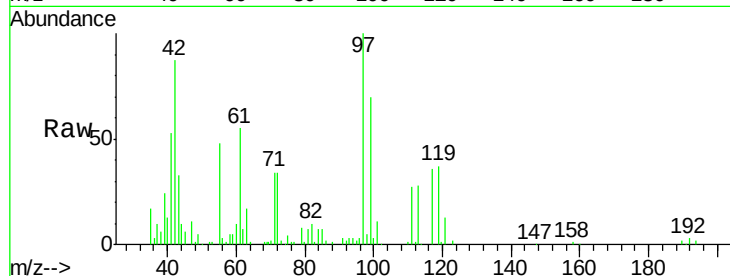
Tot Ion: 42 Resp: 91427

Ion Ratio Lower Upper

42 100

72 39.4 28.9 43.3

71 38.9 29.6 44.4



#30

Chloroform

Concen: 52.340 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF061434.D

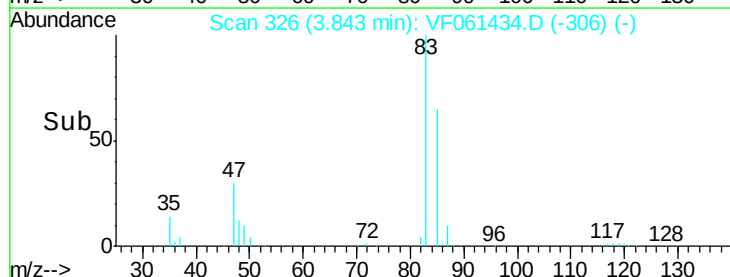
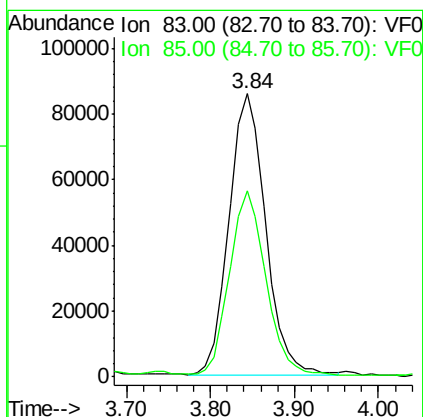
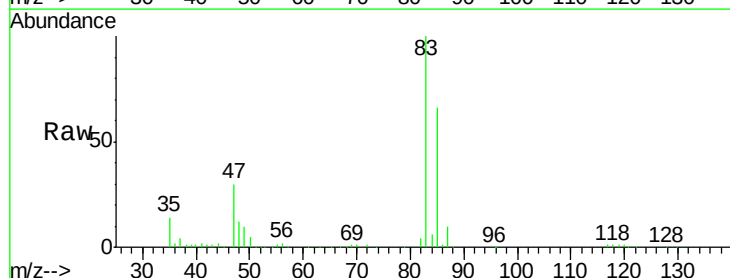
Acq: 17 Jan 2019 2:24

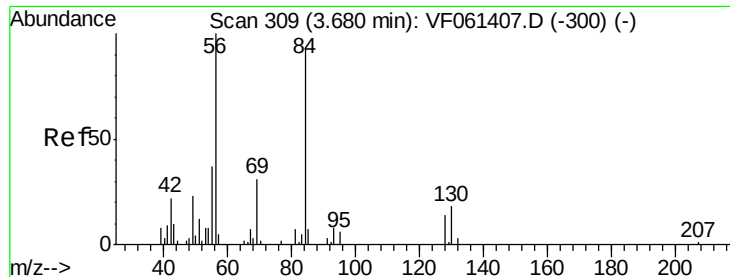
Tgt Ion: 83 Resp: 258818

Ion Ratio Lower Upper

83 100

85 65.9 52.7 79.1





#31

Cyclohexane

Concen: 33.131 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

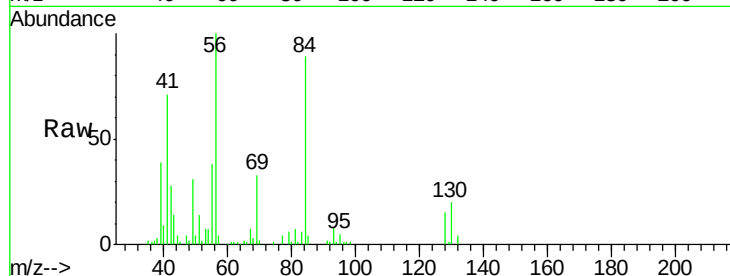
Tot Ion: 56 Resp: 121260

Ion Ratio Lower Upper

56 100

69 32.7 24.6 36.8

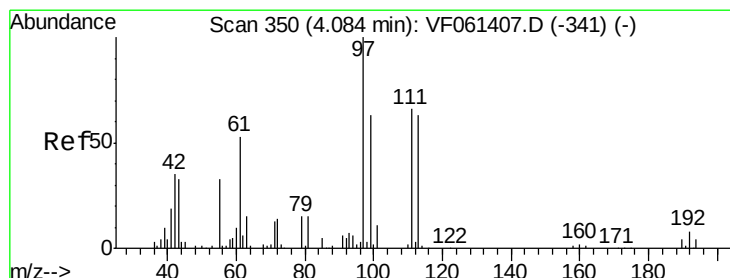
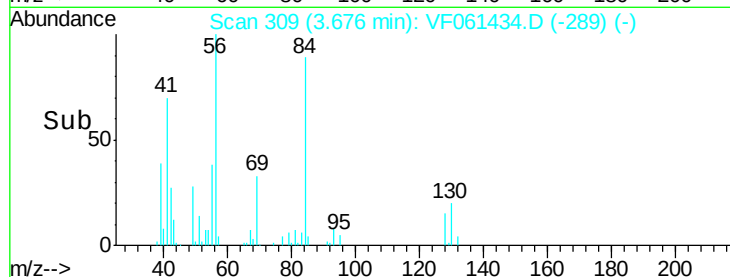
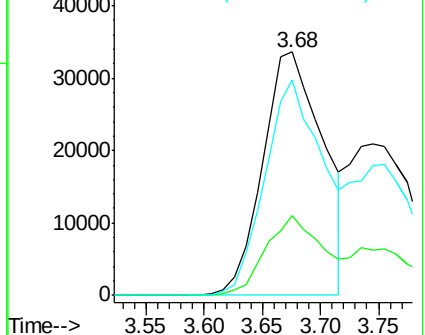
84 88.7 74.2 111.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 41.138 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

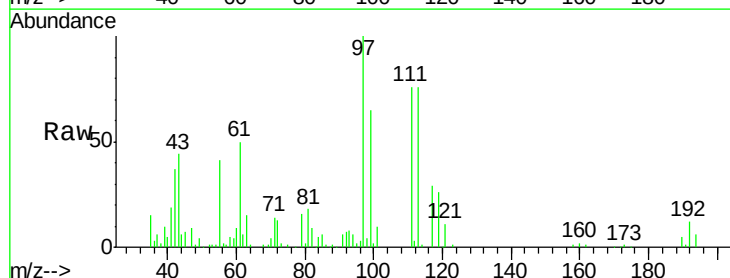
Tgt Ion: 97 Resp: 149156

Ion Ratio Lower Upper

97 100

99 65.4 50.1 75.1

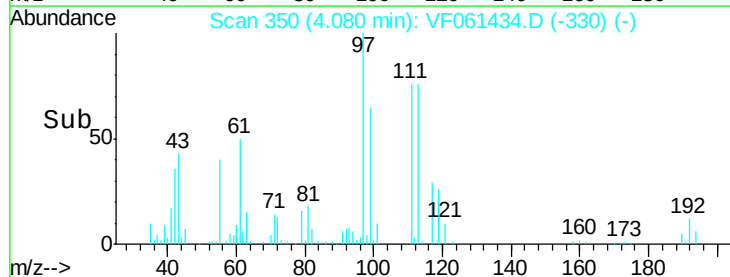
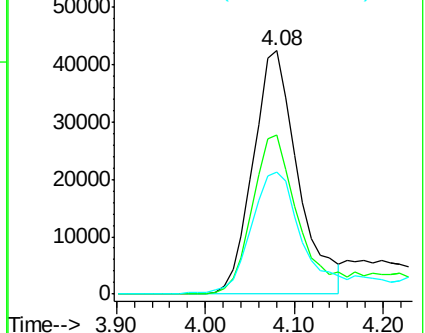
61 50.3 43.1 64.7

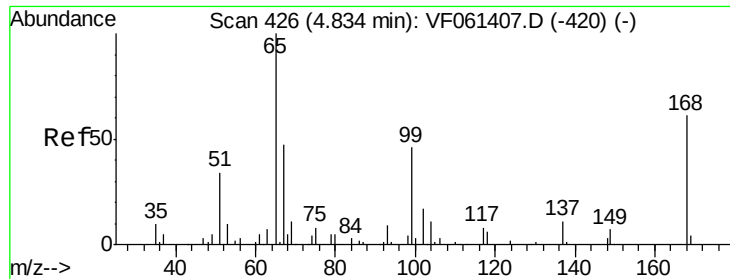


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

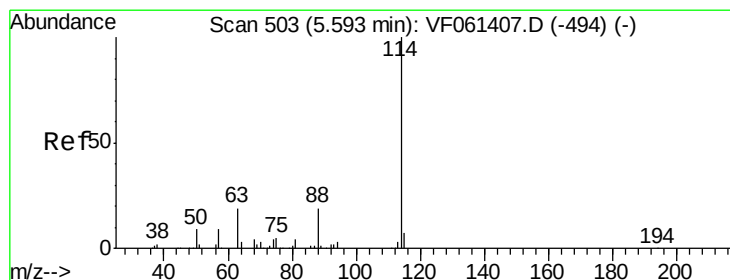
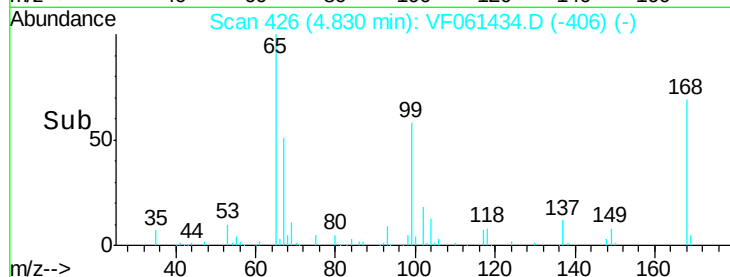
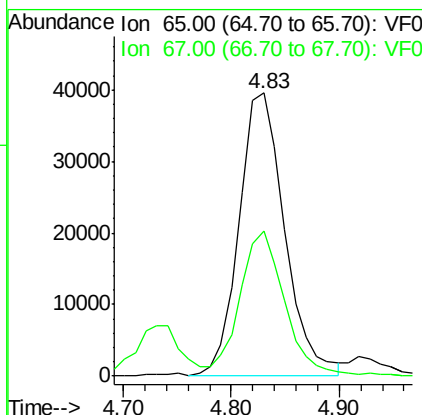
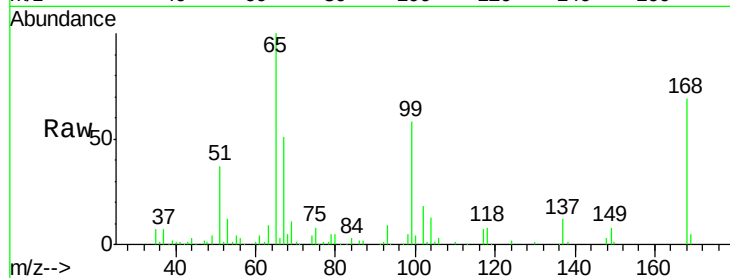




#33
 1,2-Dichloroethane-d4
 Concen: 50.716 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

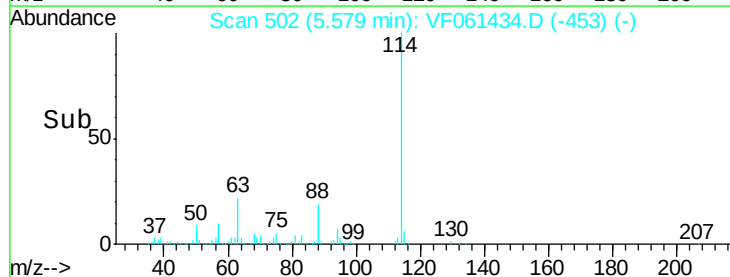
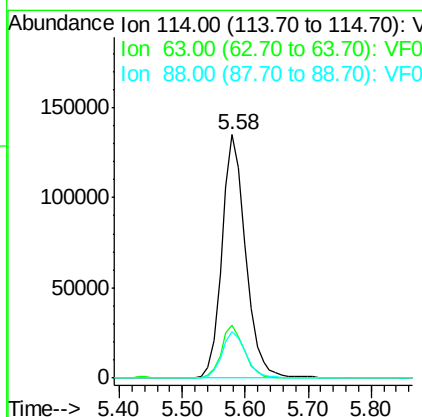
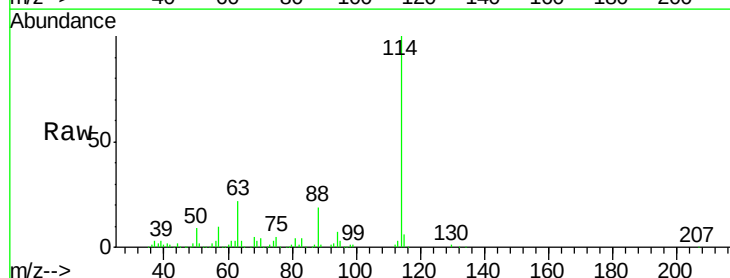
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

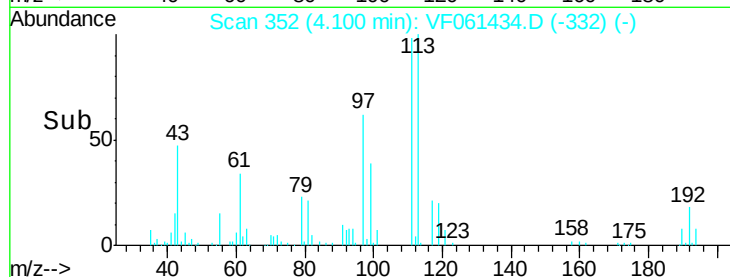
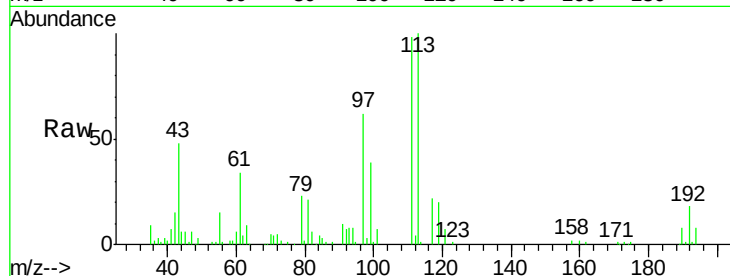
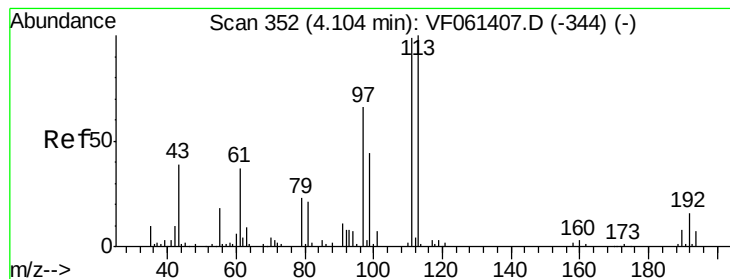
Tot Ion: 65 Resp: 115495
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Tgt Ion: 114 Resp: 353593
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 39.0
 88 19.1 0.0 37.4





#35

Dibromofluoromethane

Concen: 47.473 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

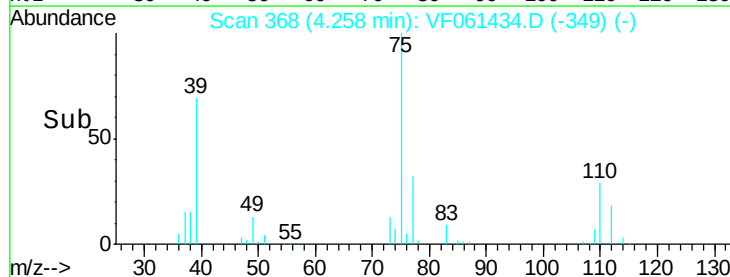
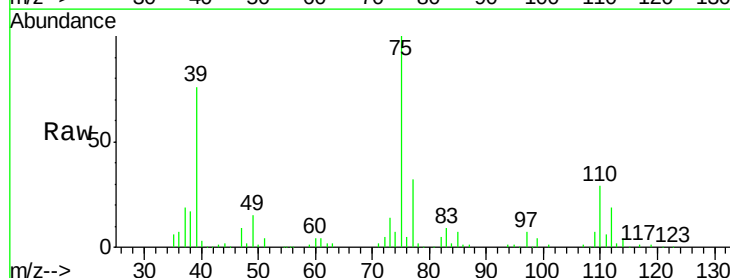
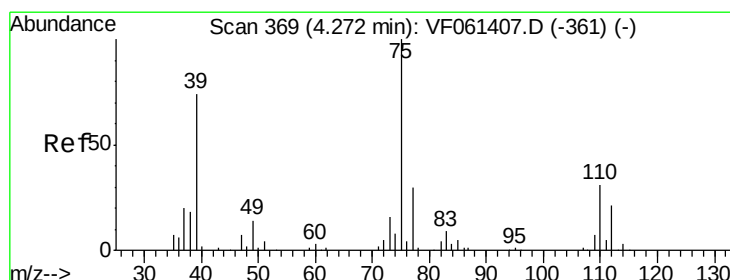
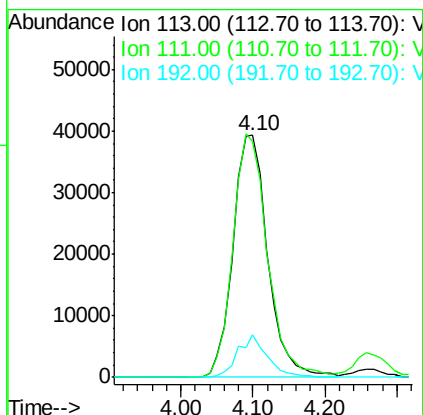
Tot Ion:113 Resp: 132456

Ion Ratio Lower Upper

113 100

111 97.7 79.4 119.0

192 17.5 12.4 18.6



#36

1,1-Dichloropropene

Concen: 49.503 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

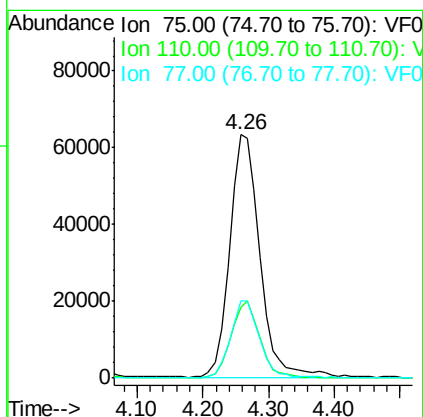
Tgt Ion: 75 Resp: 202951

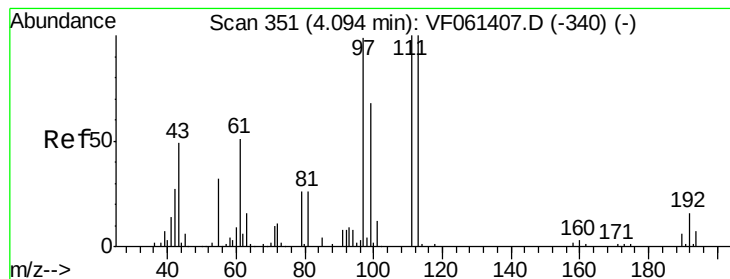
Ion Ratio Lower Upper

75 100

110 29.2 15.8 47.3

77 31.5 24.0 36.0





#37

Ethyl Acetate

Concen: 52.183 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

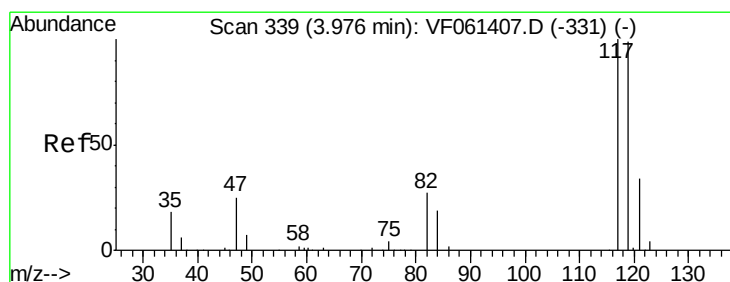
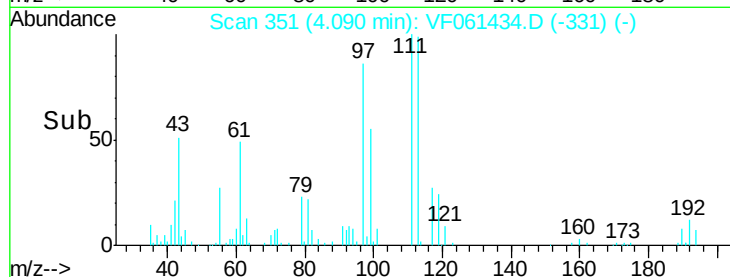
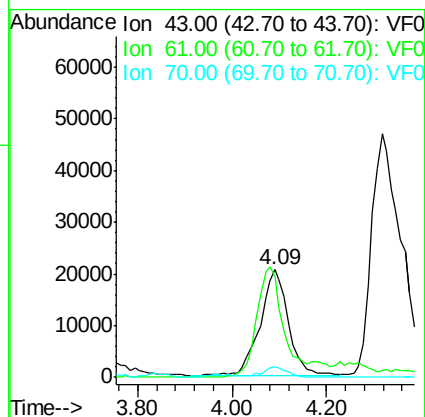
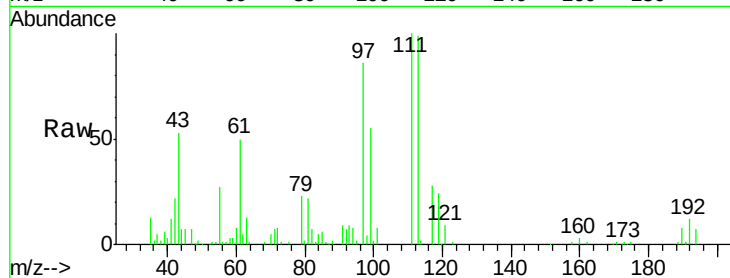
Tot Ion: 43 Resp: 85517

Ion Ratio Lower Upper

43 100

61 94.2 81.7 122.5

70 9.5 6.2 9.2#



#38

Carbon Tetrachloride

Concen: 42.058 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

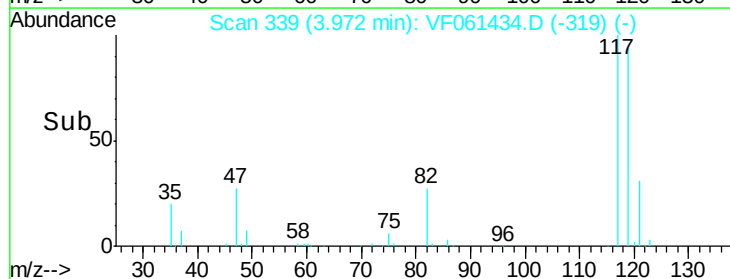
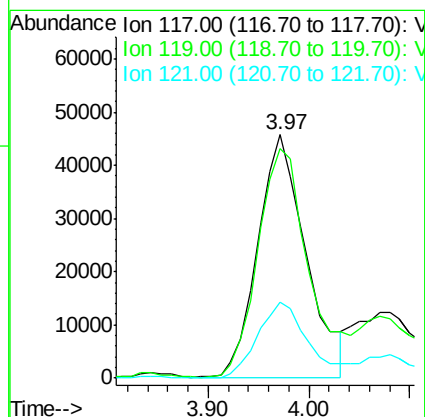
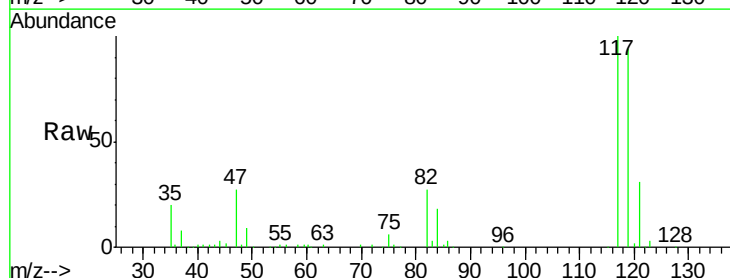
Tgt Ion: 117 Resp: 150742

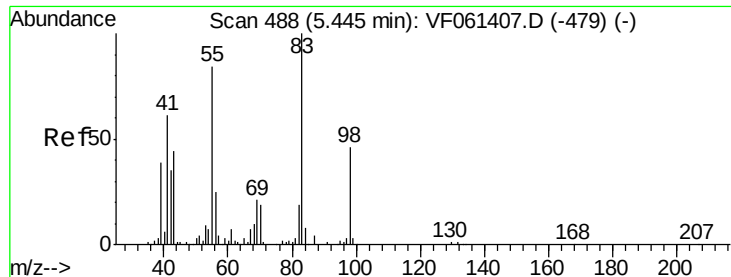
Ion Ratio Lower Upper

117 100

119 94.4 79.0 118.6

121 31.0 27.0 40.6

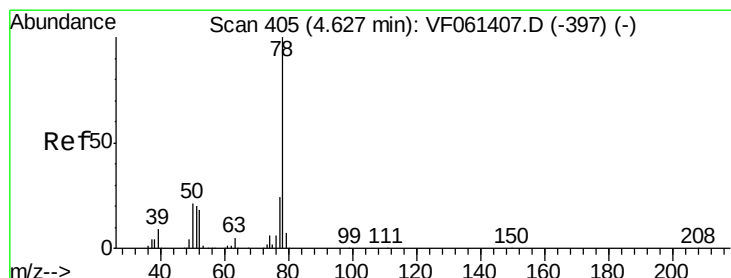
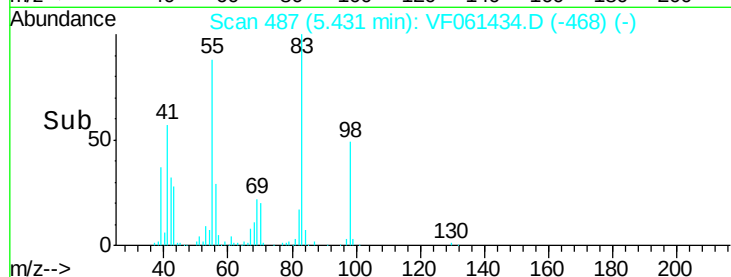
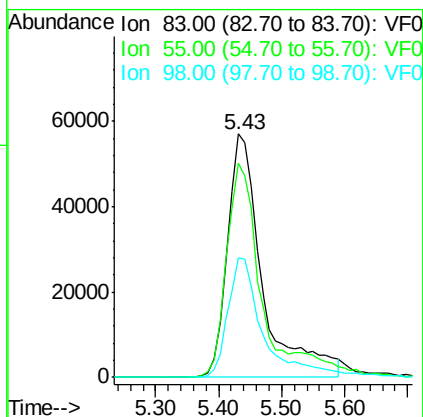
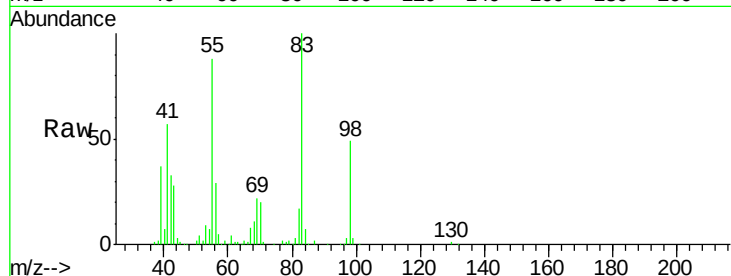




#39
Methylvlcyclohexane
Concen: 49.583 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

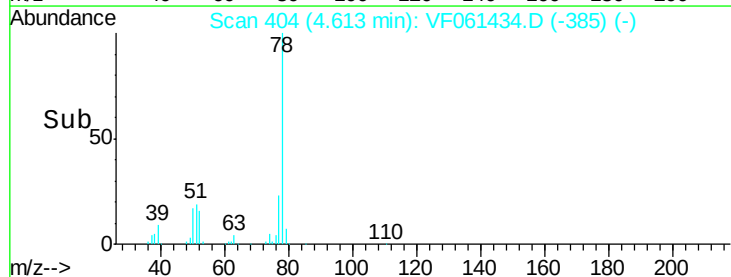
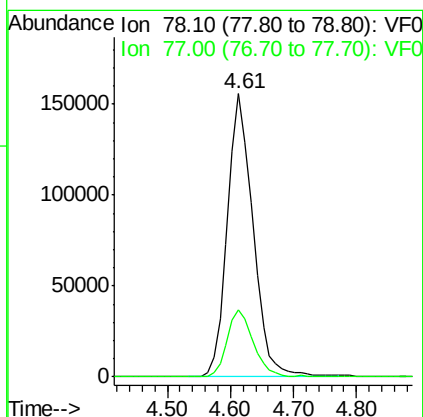
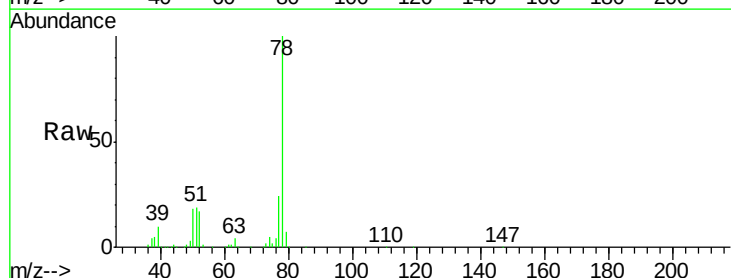
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

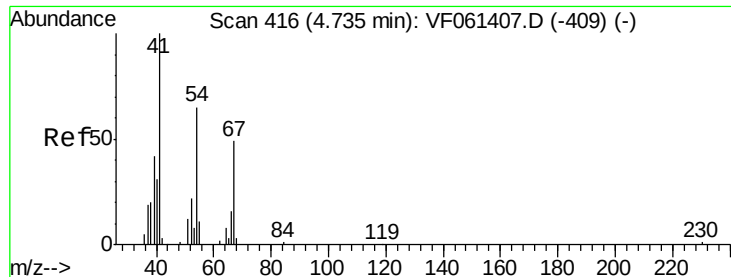
Tot Ion: 83 Resp: 220295
Ion Ratio Lower Upper
83 100
55 88.0 67.4 101.2
98 48.9 36.7 55.1



#40
Benzene
Concen: 48.215 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion: 78 Resp: 439845
Ion Ratio Lower Upper
78 100
77 23.6 19.0 28.6





#41

Methacrylonitrile

Concen: 50.443 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 43987

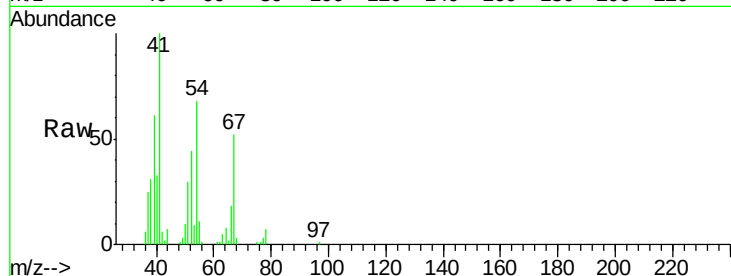
Ion Ratio Lower Upper

41 100

39 60.6 43.1 64.7

67 51.5 38.8 58.2

52 44.3 33.2 49.8

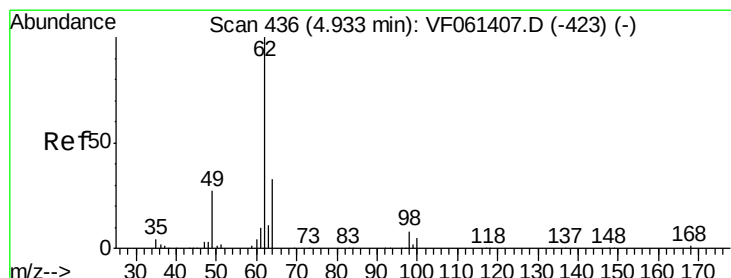
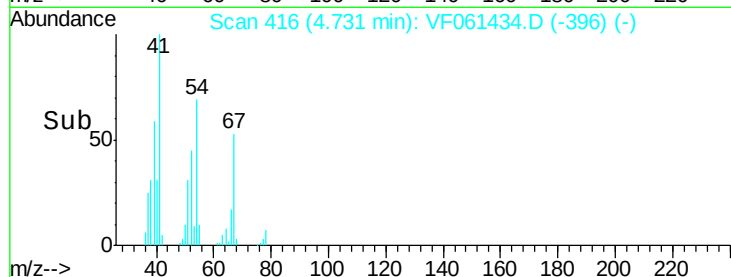
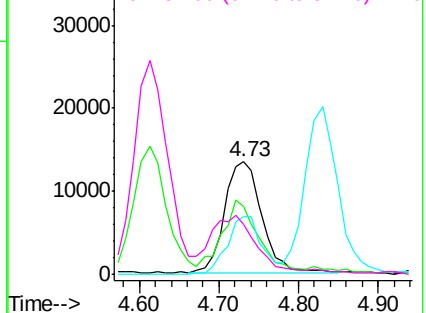


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 47.725 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.00 min

Lab File: VF061434.D

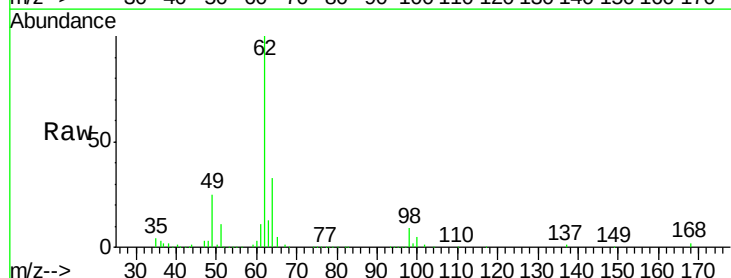
Acq: 17 Jan 2019 2:24

Tgt Ion: 62 Resp: 155143

Ion Ratio Lower Upper

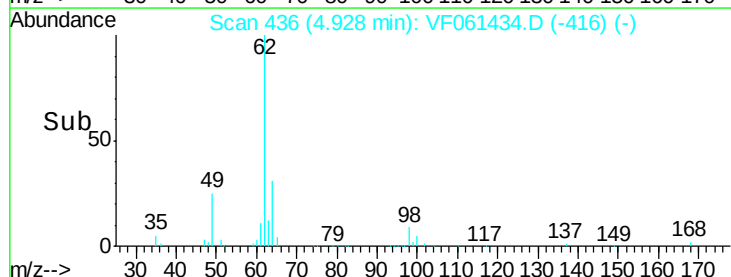
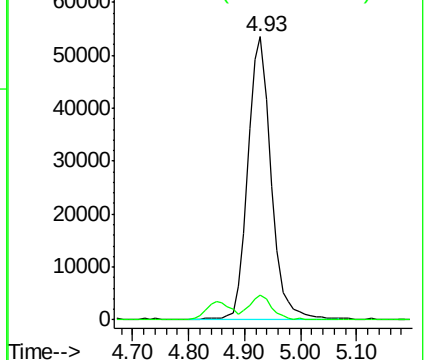
62 100

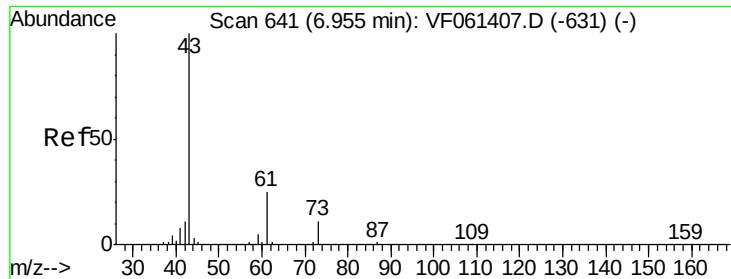
98 9.0 0.0 17.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 51.288 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

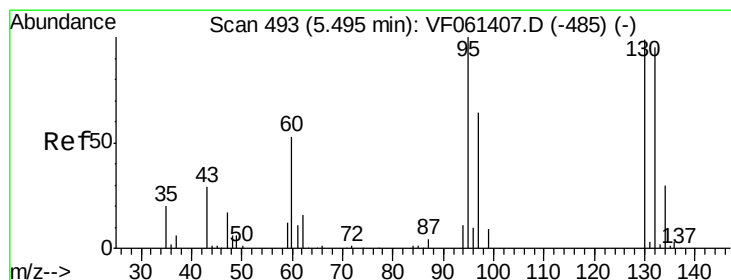
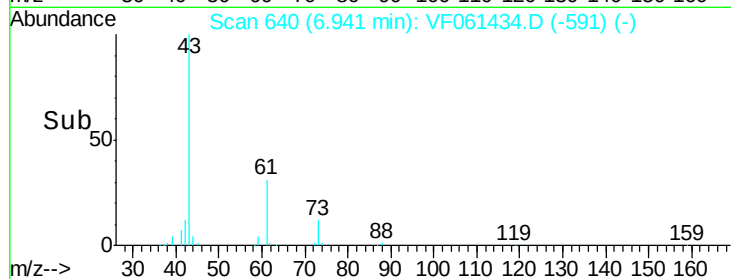
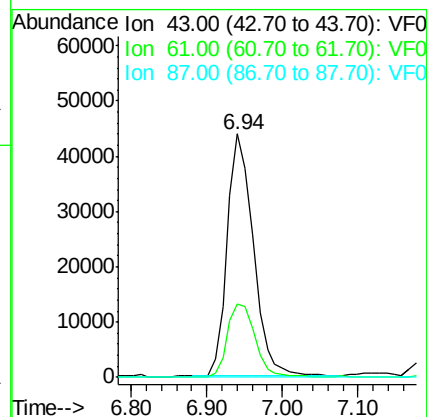
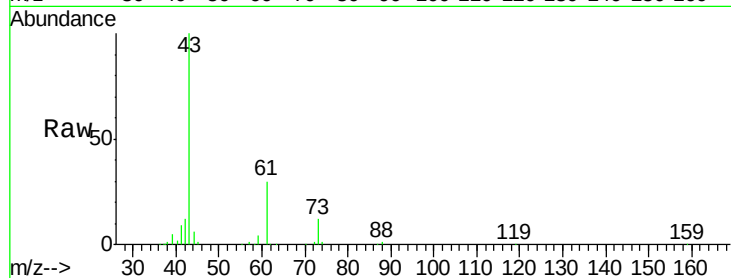
Tot Ion: 43 Resp: 105490

Ion Ratio Lower Upper

43 100

61 29.9 20.3 30.5

87 0.4 0.5 0.7#



#44

Trichloroethene

Concen: 49.301 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.00 min

Lab File: VF061434.D

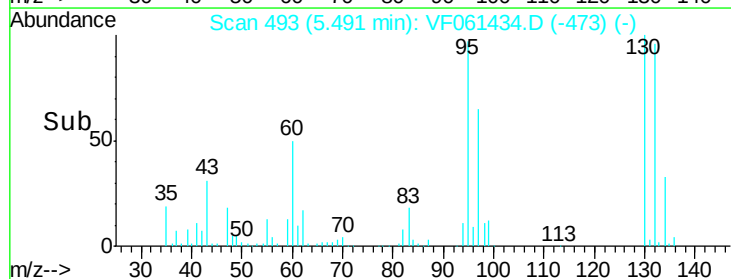
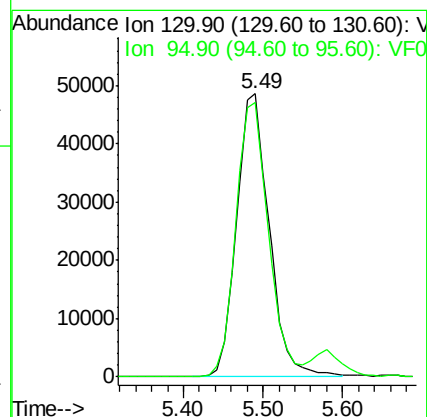
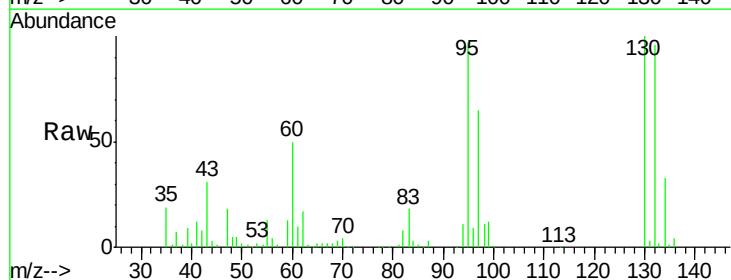
Acq: 17 Jan 2019 2:24

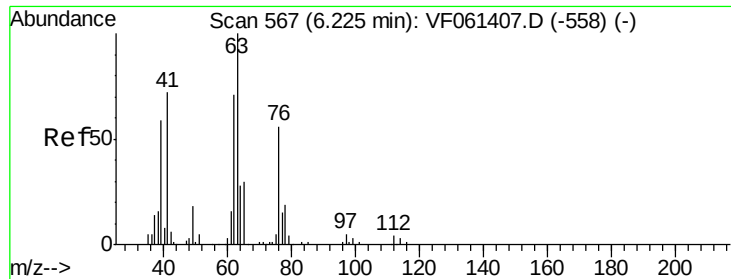
Tgt Ion:130 Resp: 137969

Ion Ratio Lower Upper

130 100

95 96.9 0.0 202.8





#45

1,2-Dichloropropane

Concen: 52.469 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

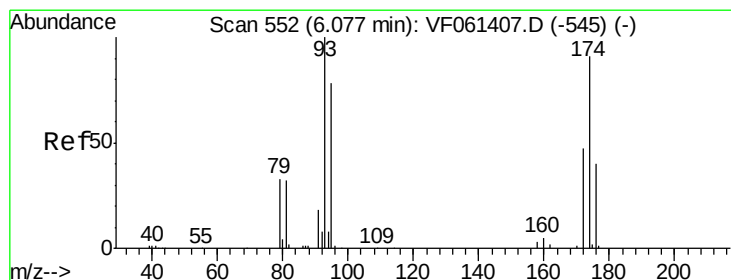
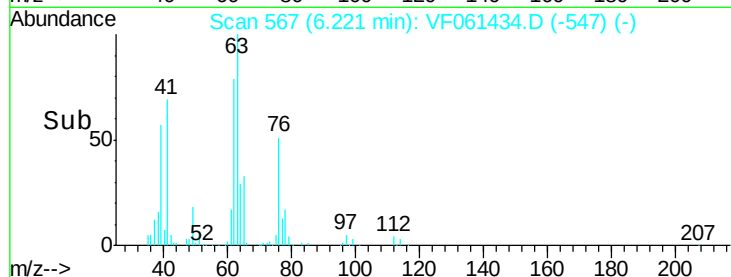
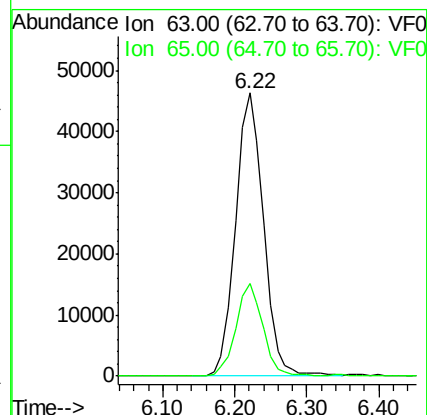
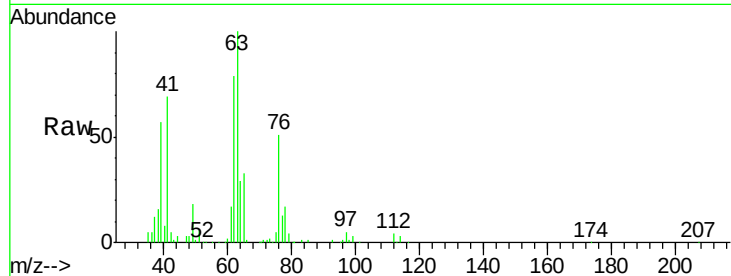
VSTDCCC050EC

Tot Ion: 63 Resp: 125624

Ion Ratio Lower Upper

63 100

65 32.7 24.4 36.6



#46

Dibromomethane

Concen: 49.902 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

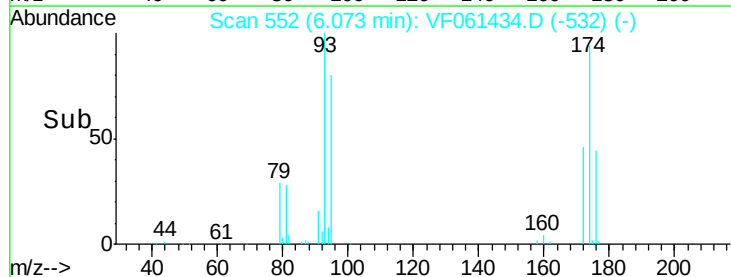
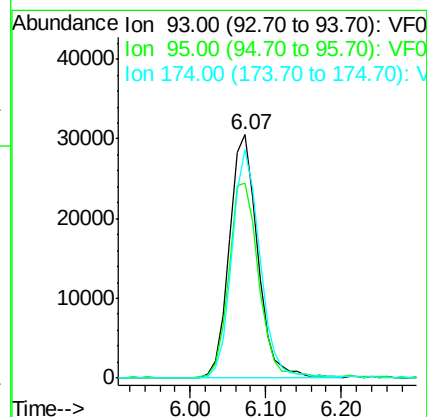
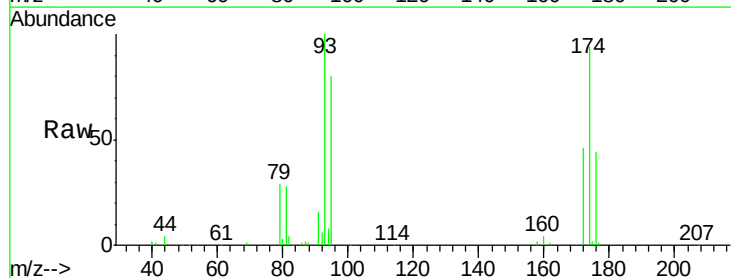
Tgt Ion: 93 Resp: 79446

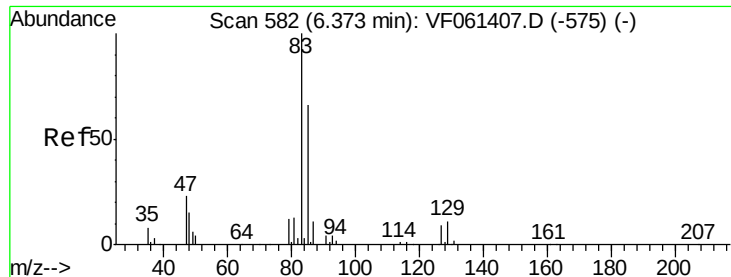
Ion Ratio Lower Upper

93 100

95 80.2 62.1 93.1

174 95.4 74.6 111.8





#47

Bromodichloromethane

Concen: 51.348 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

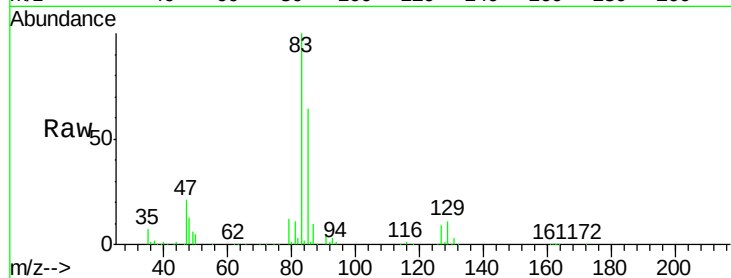
Tot Ion: 83 Resp: 202261

Ion Ratio Lower Upper

83 100

85 64.1 53.0 79.4

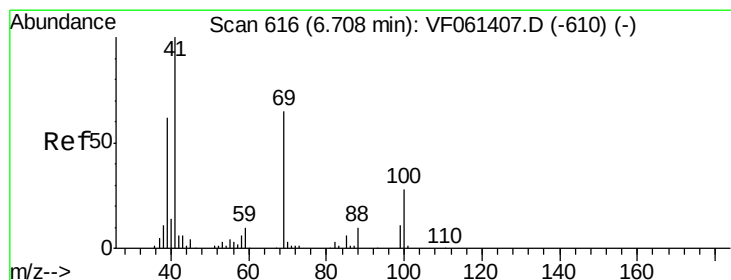
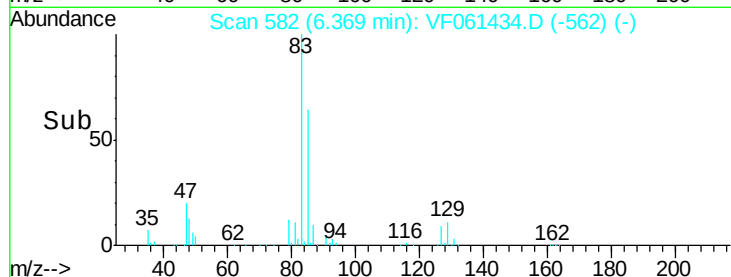
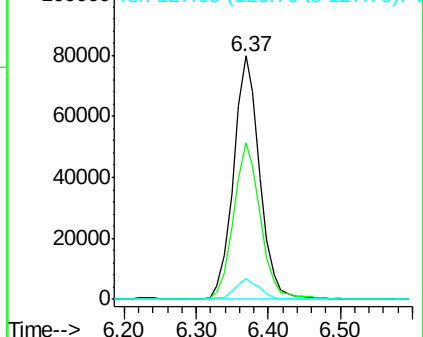
127 8.7 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 51.402 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

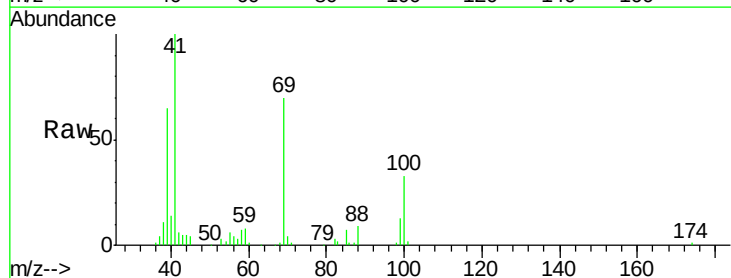
Tgt Ion: 41 Resp: 70994

Ion Ratio Lower Upper

41 100

69 70.1 51.7 77.5

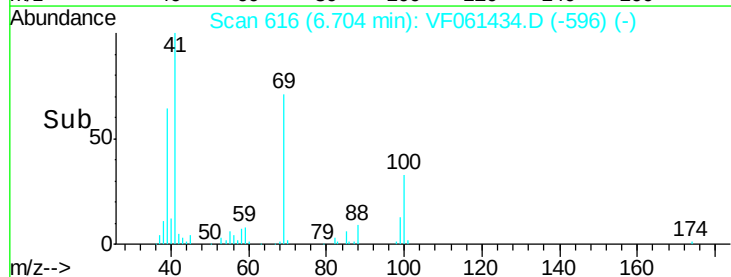
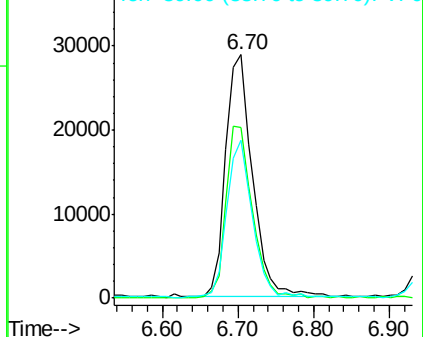
39 65.1 49.2 73.8

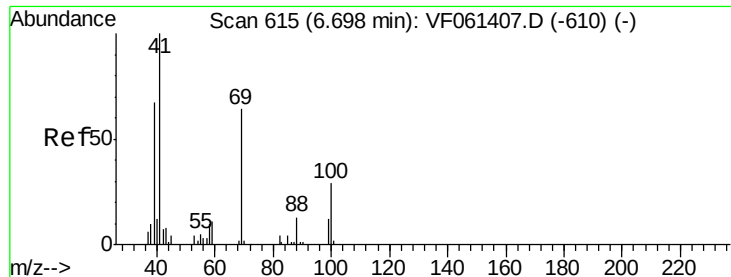


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1181.346 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

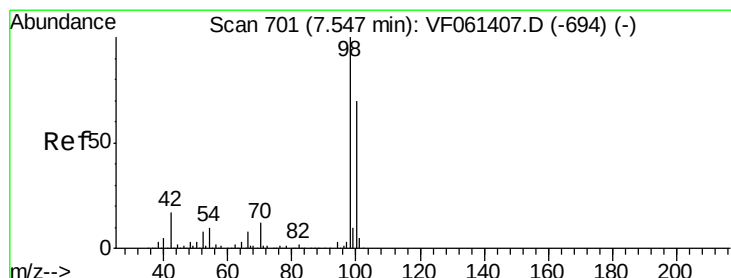
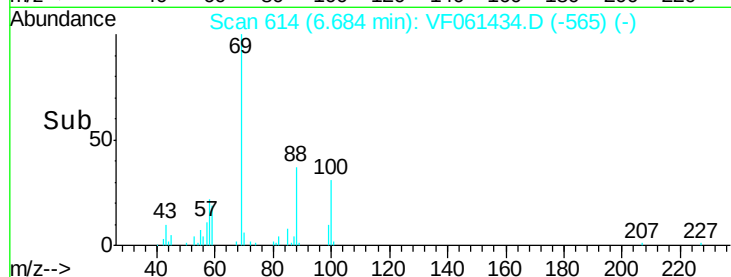
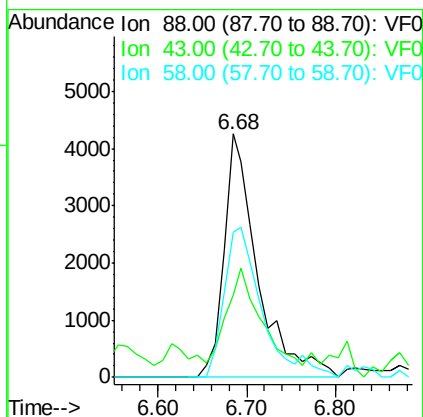
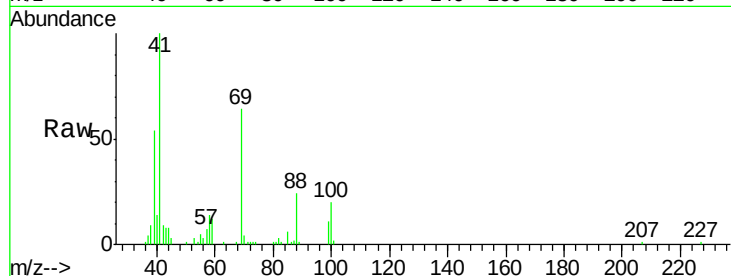
Tot Ion: 88 Resp: 11268

Ion Ratio Lower Upper

88 100

43 33.9 55.5 83.3#

58 59.6 59.9 89.9#



#50

Toluene-d8

Concen: 50.280 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061434.D

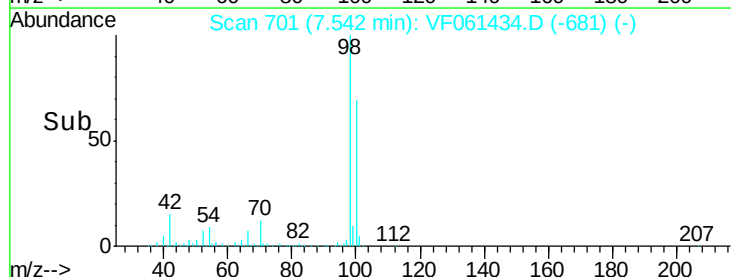
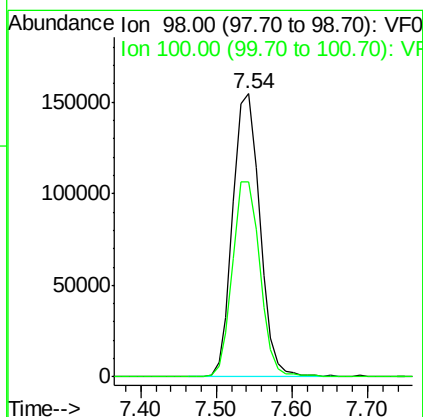
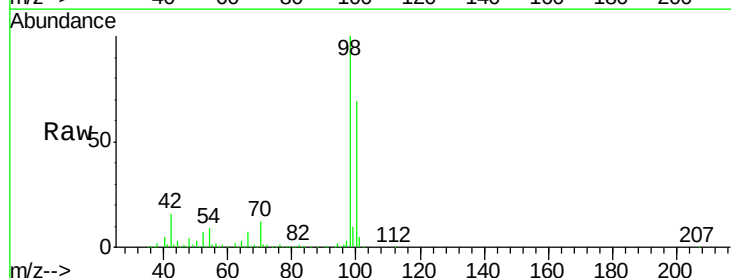
Acq: 17 Jan 2019 2:24

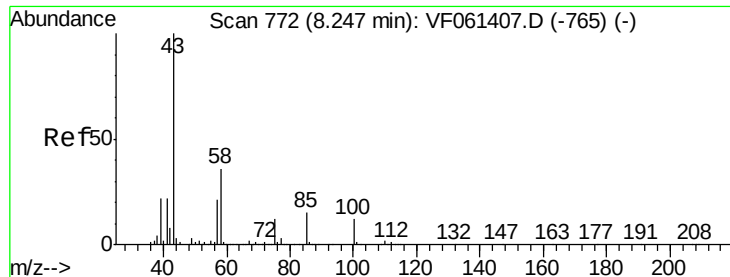
Tgt Ion: 98 Resp: 384365

Ion Ratio Lower Upper

98 100

100 69.1 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 259.177 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

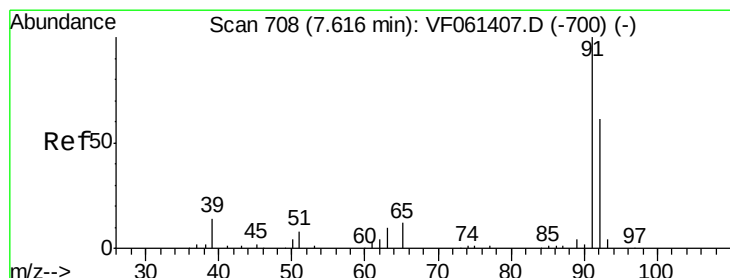
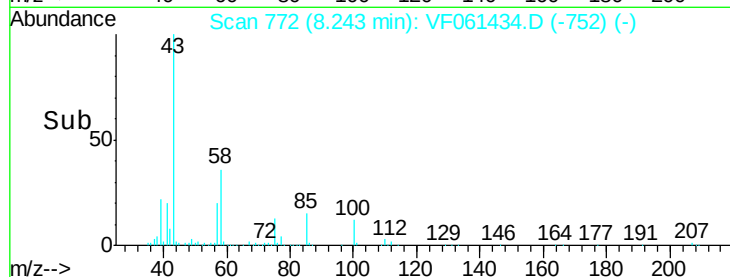
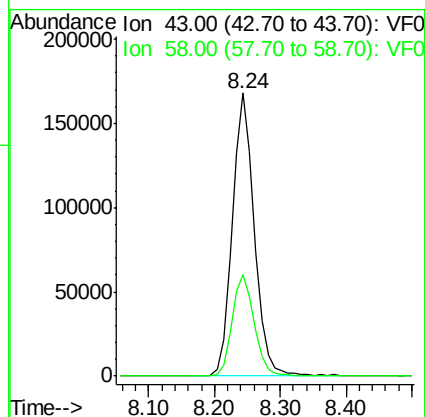
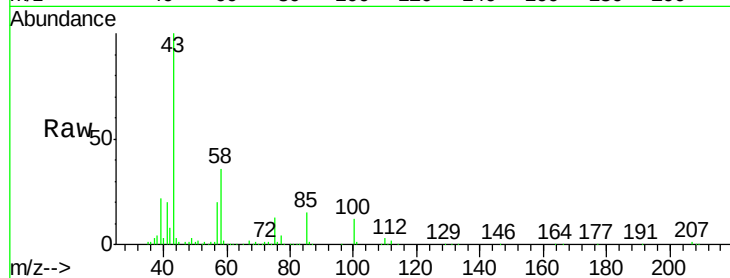
VSTDCCC050EC

Tot Ion: 43 Resp: 391895

Ion Ratio Lower Upper

43 100

58 36.0 28.8 43.2



#52

Toluene

Concen: 48.830 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061434.D

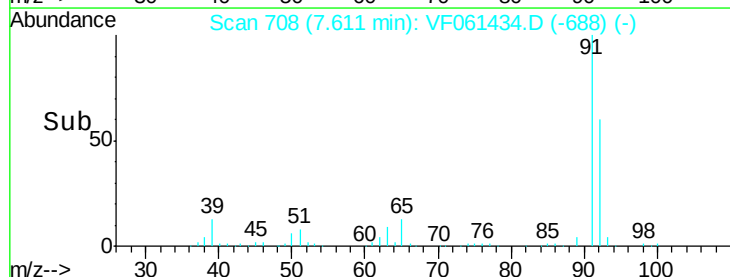
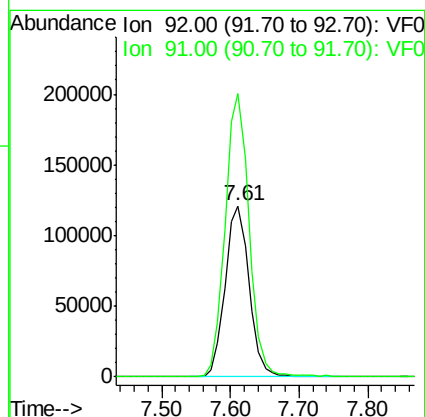
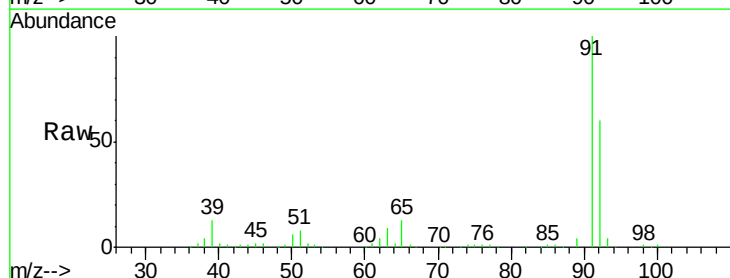
Acq: 17 Jan 2019 2:24

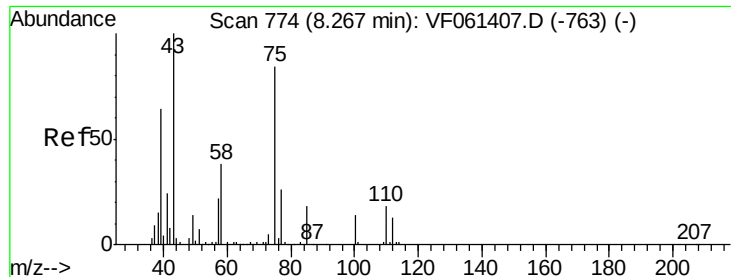
Tgt Ion: 92 Resp: 293347

Ion Ratio Lower Upper

92 100

91 165.4 131.2 196.8





#53

t-1,3-Dichloropropene

Concen: 48.751 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

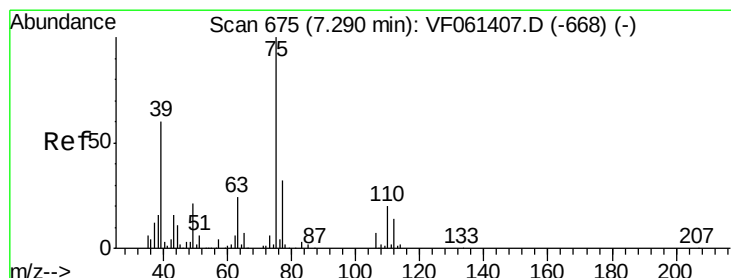
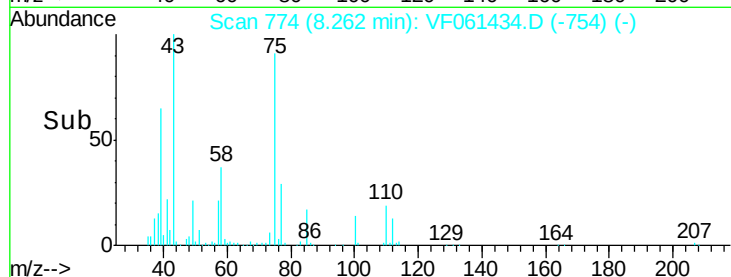
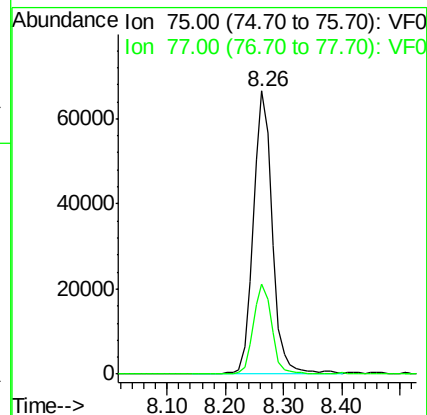
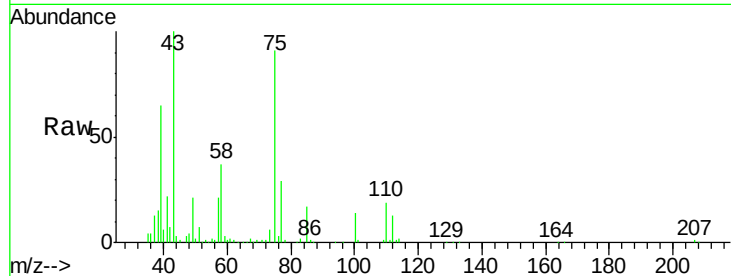
VSTDCCC050EC

Tot Ion: 75 Resp: 152483

Ion Ratio Lower Upper

75 100

77 31.8 24.4 36.6



#54

cis-1,3-Dichloropropene

Concen: 52.149 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

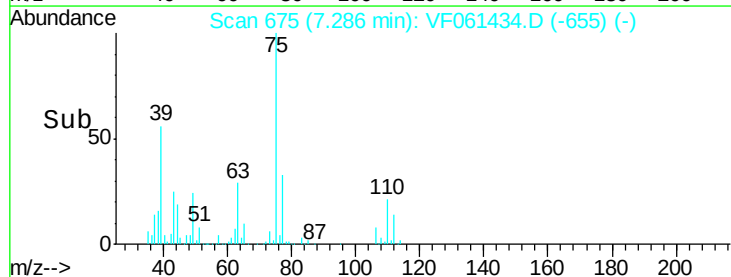
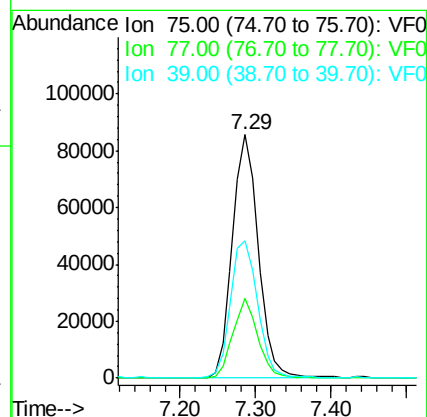
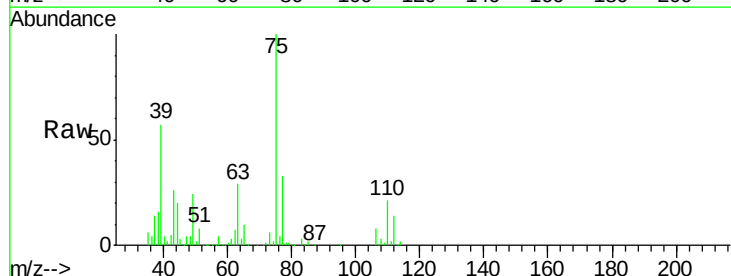
Tgt Ion: 75 Resp: 203885

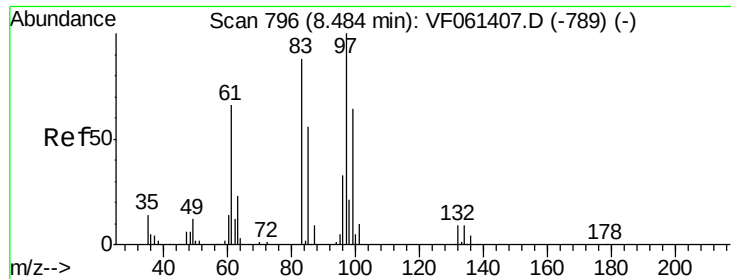
Ion Ratio Lower Upper

75 100

77 32.6 25.4 38.0

39 56.6 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 52.576 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 89694

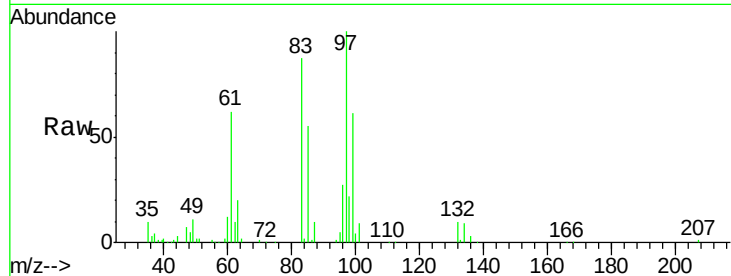
Ion Ratio Lower Upper

97 100

83 86.8 70.4 105.6

85 55.5 44.7 67.1

99 61.1 50.8 76.2

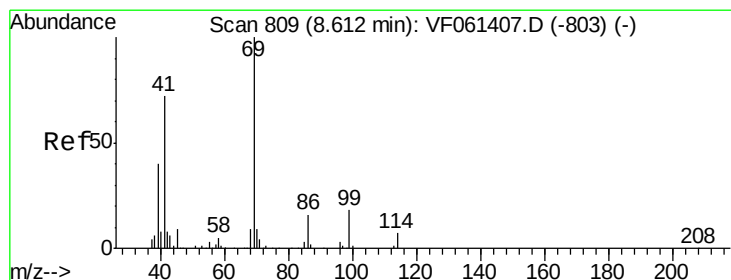
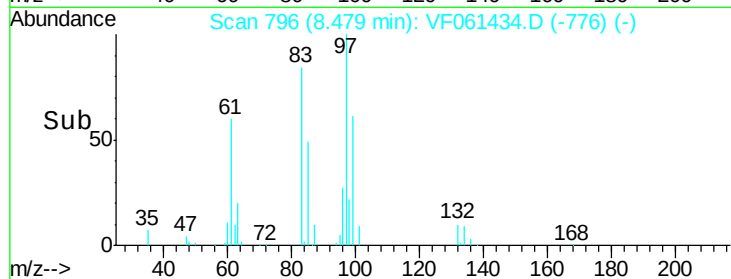
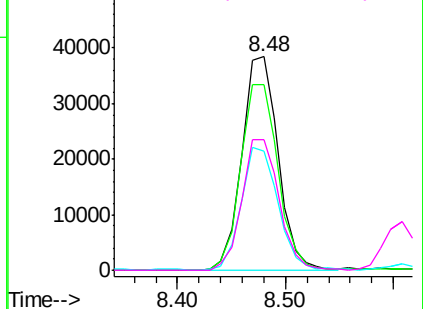


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 49.603 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

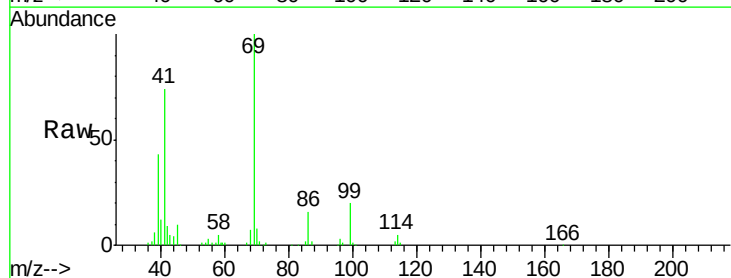
Tgt Ion: 69 Resp: 98451

Ion Ratio Lower Upper

69 100

41 74.5 57.5 86.3

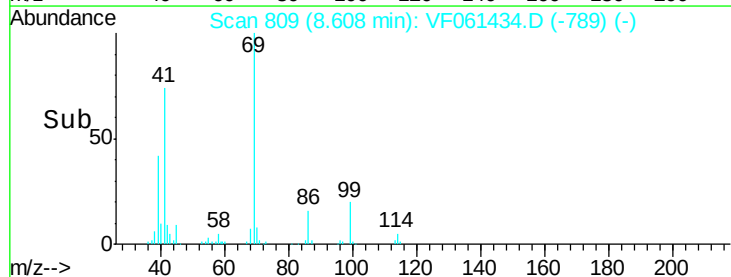
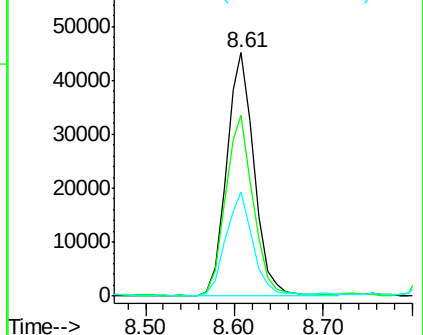
39 42.7 32.0 48.0

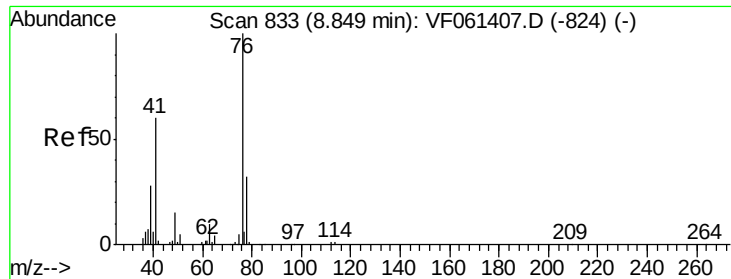


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 50.748 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

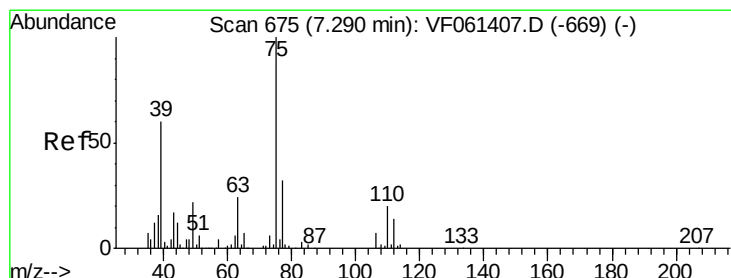
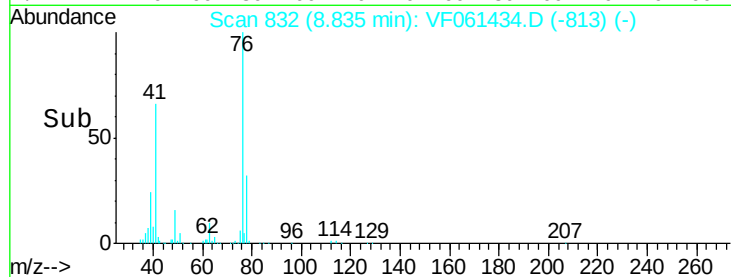
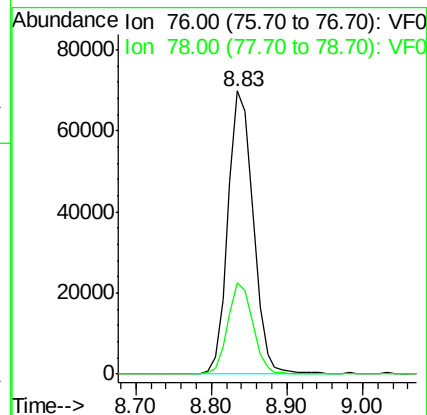
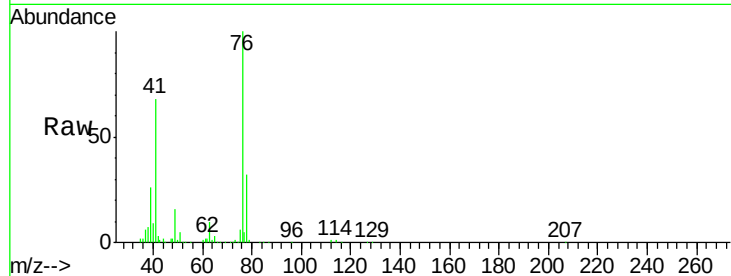
VSTDCCC050EC

Tot Ion: 76 Resp: 162273

Ion Ratio Lower Upper

76 100

78 32.1 25.3 37.9



#58

2-Chloroethyl Vinyl ether

Concen: 295.469 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061434.D

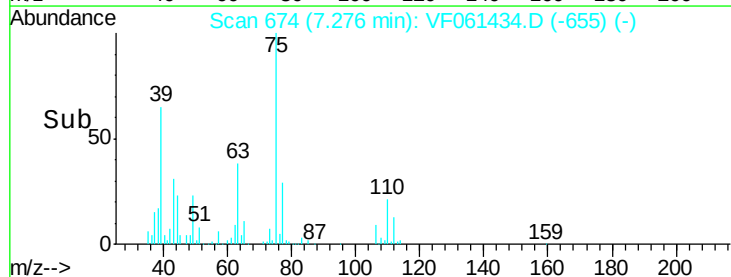
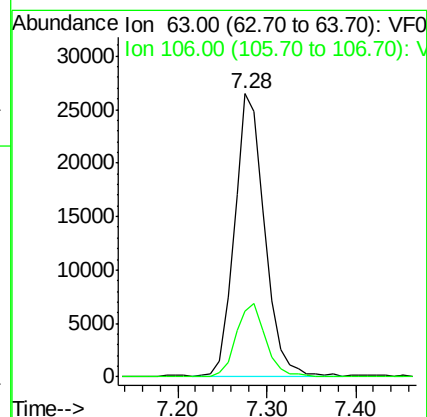
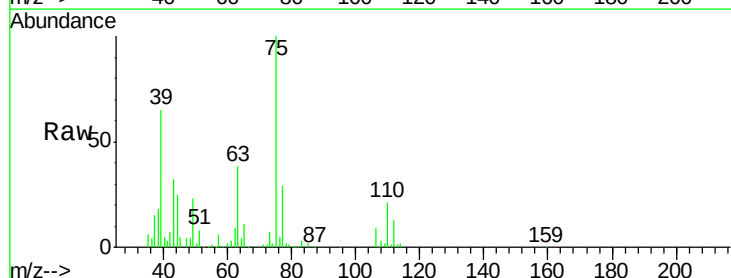
Acq: 17 Jan 2019 2:24

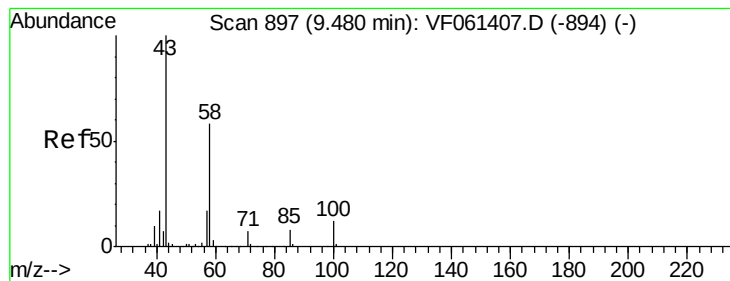
Tgt Ion: 63 Resp: 62666

Ion Ratio Lower Upper

63 100

106 23.3 21.9 32.9





#59

2-Hexanone

Concen: 246.897 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

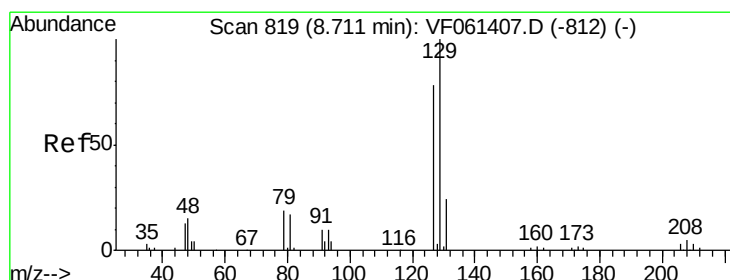
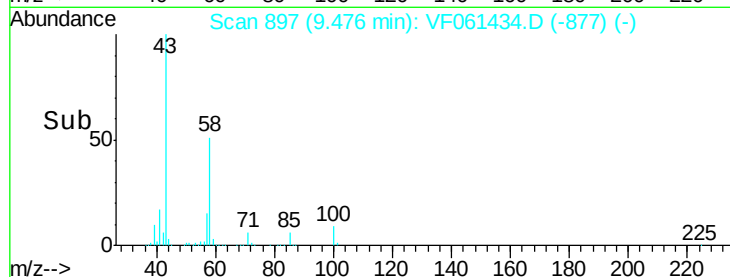
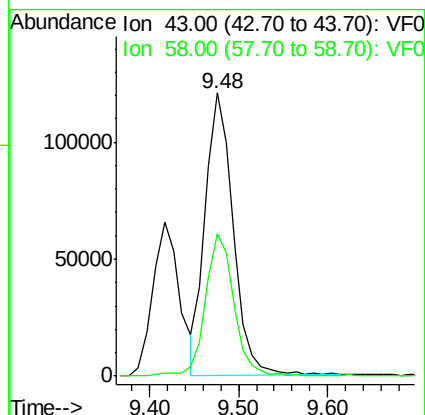
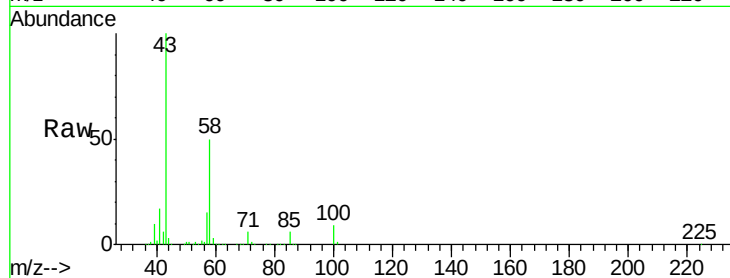
VSTDCCC050EC

Tot Ion: 43 Resp: 260329

Ion Ratio Lower Upper

43 100

58 50.4 25.9 77.6



#60

Dibromochloromethane

Concen: 49.907 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061434.D

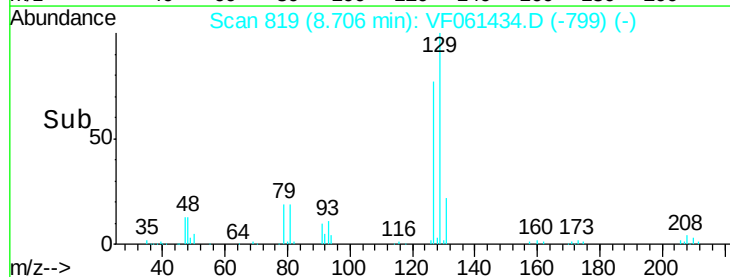
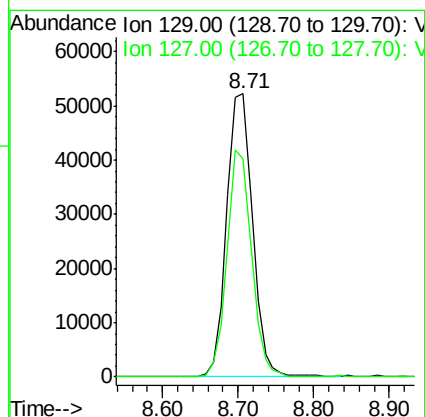
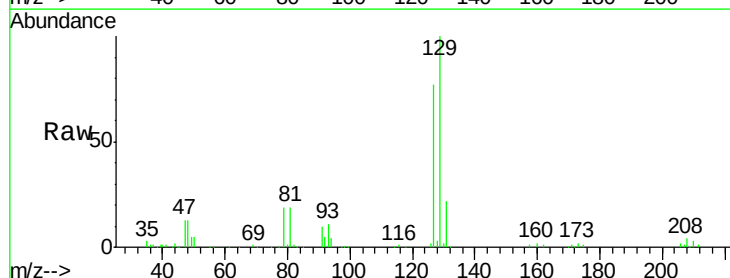
Acq: 17 Jan 2019 2:24

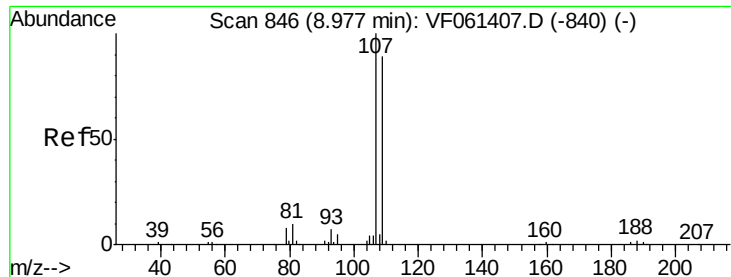
Tgt Ion: 129 Resp: 124471

Ion Ratio Lower Upper

129 100

127 76.8 39.1 117.2





#61

1,2-Dibromoethane

Concen: 49.455 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

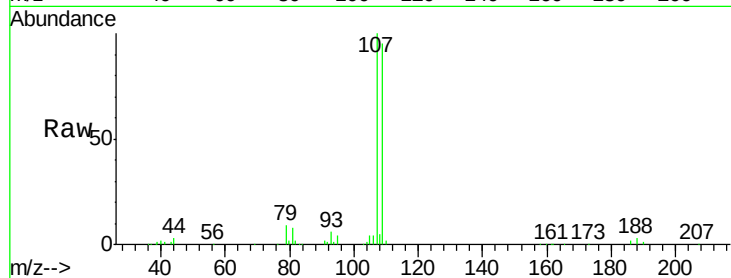
VSTDCCC050EC

Tot Ion:107 Resp: 96584

Ion Ratio Lower Upper

107 100

109 95.4 70.8 106.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

40000

30000

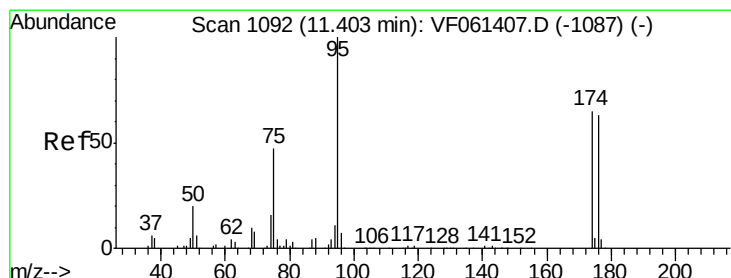
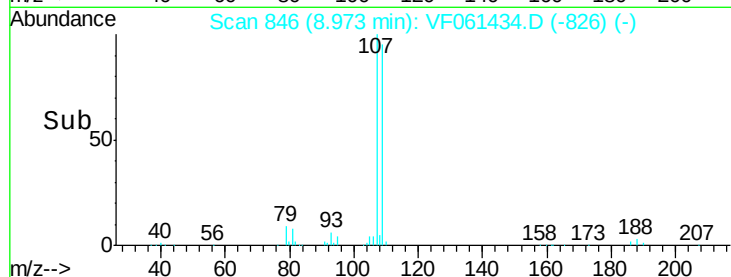
20000

10000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 44.960 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

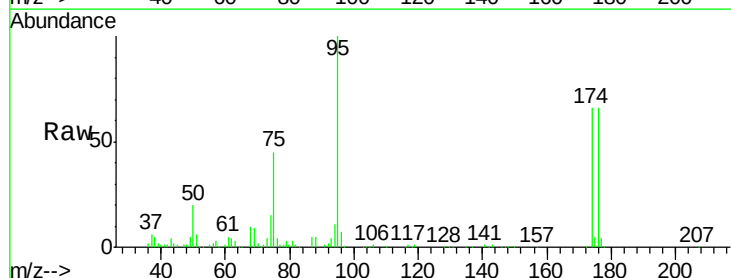
Tgt Ion: 95 Resp: 160586

Ion Ratio Lower Upper

95 100

174 65.6 0.0 130.4

176 66.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

120000

100000

80000

60000

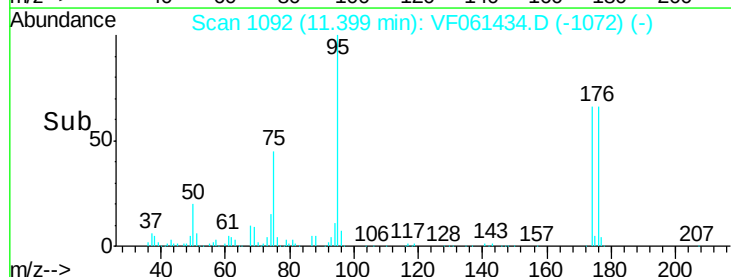
40000

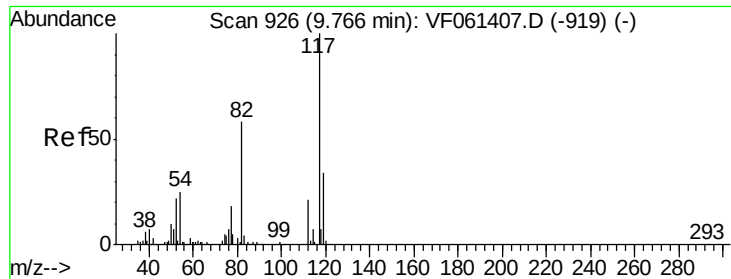
20000

0

11.30 11.40 11.50

Time-->

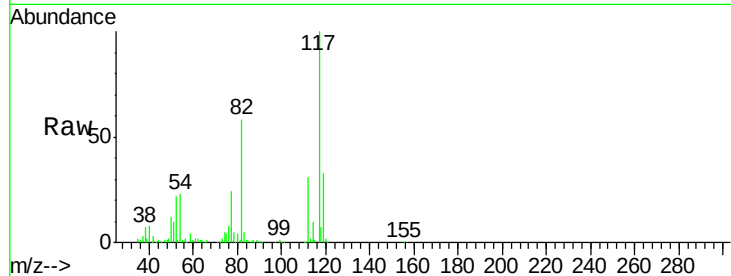




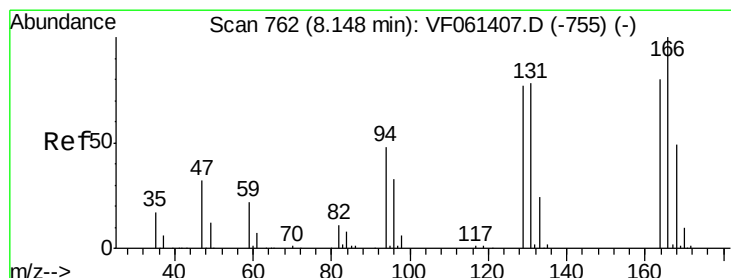
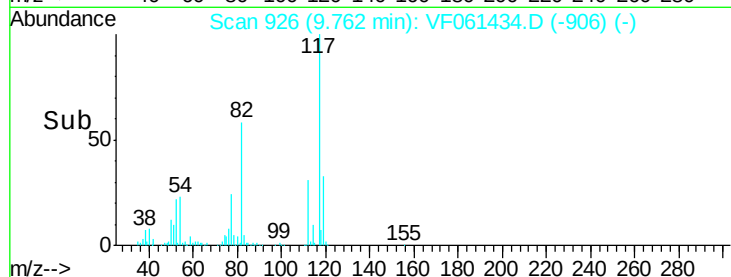
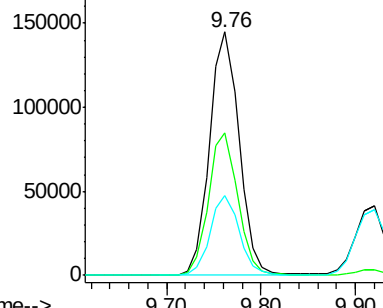
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 315315
Ion Ratio Lower Upper
117 100
82 58.3 46.4 69.6
119 32.7 27.2 40.8

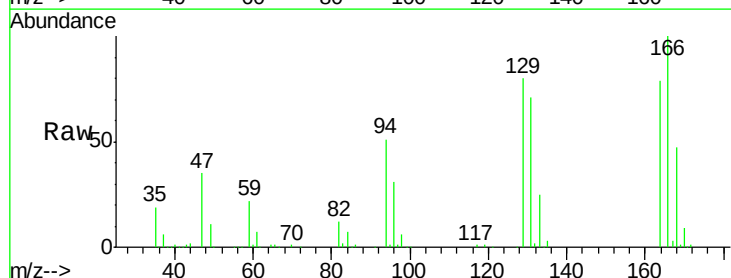


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

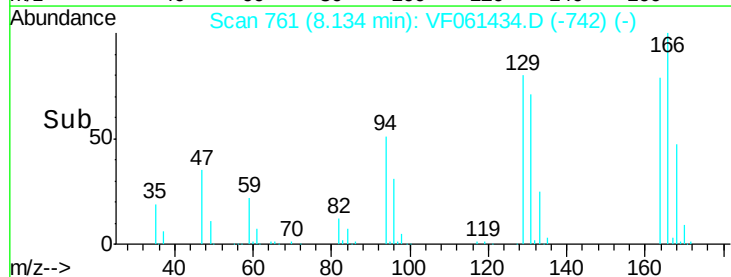
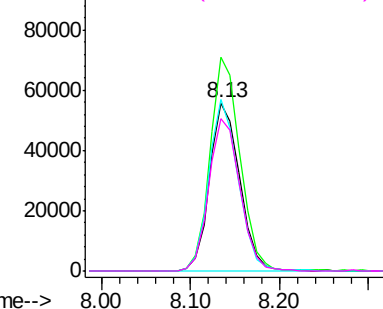


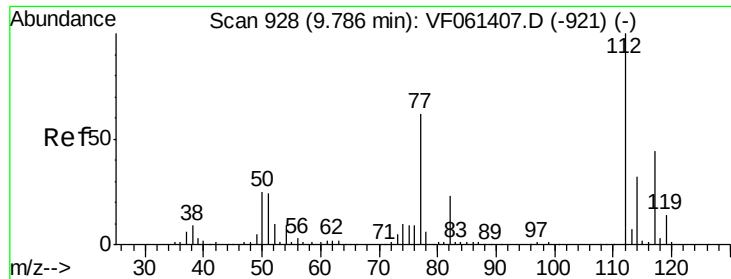
#64
Tetrachloroethene
Concen: 55.233 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion:164 Resp: 130968
Ion Ratio Lower Upper
164 100
166 126.9 99.6 149.4
129 101.7 76.4 114.6
131 90.6 77.9 116.9



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

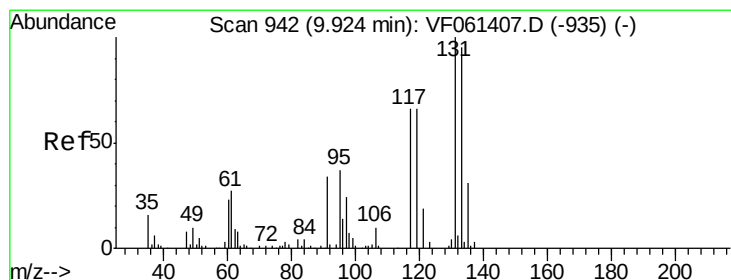
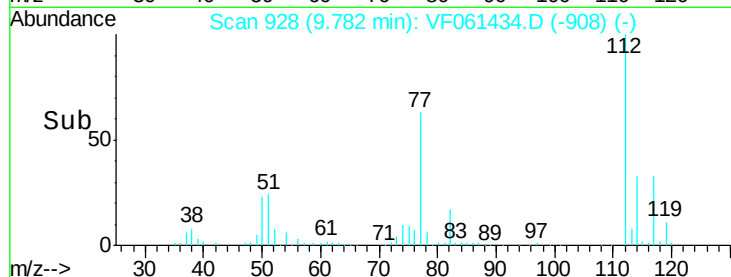
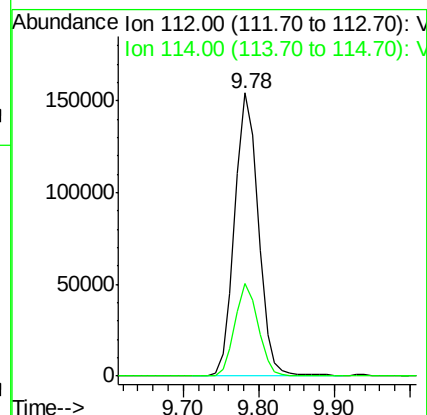
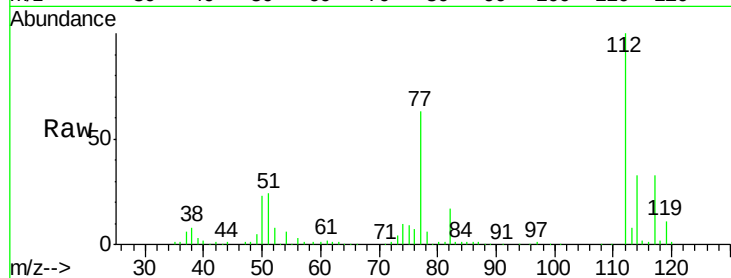




#65
Chlorobenzene
Concen: 52.115 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

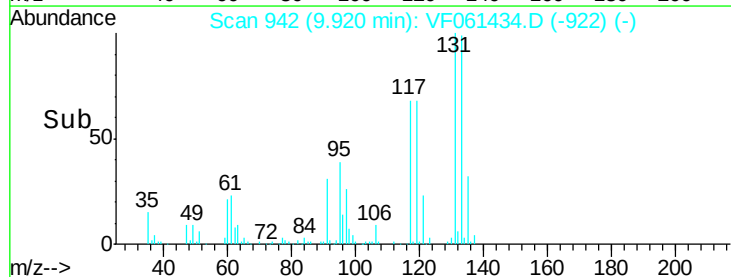
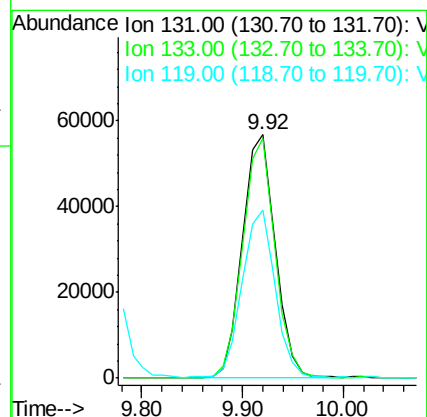
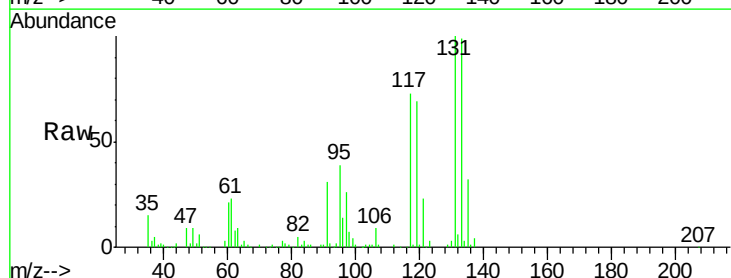
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

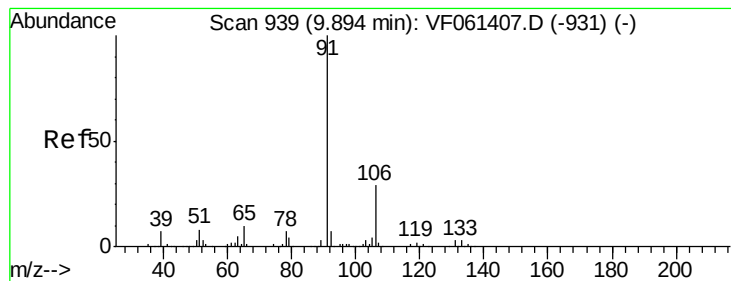
Tot Ion:112 Resp: 334167
Ion Ratio Lower Upper
112 100
114 32.8 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 50.714 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion:131 Resp: 129542
Ion Ratio Lower Upper
131 100
133 98.6 47.4 142.2
119 69.0 33.1 99.3





#67

Ethyl Benzene

Concen: 49.492 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

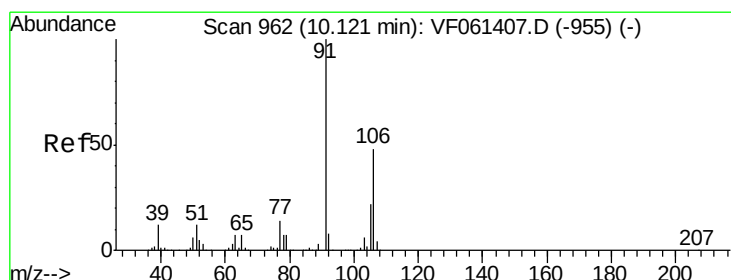
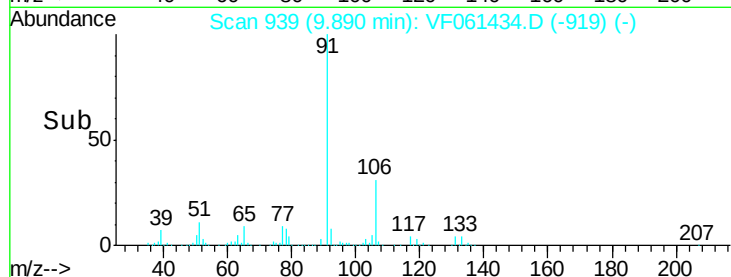
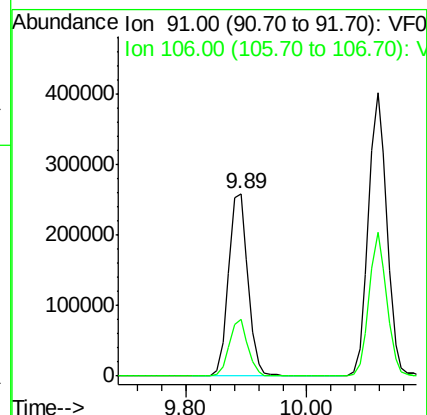
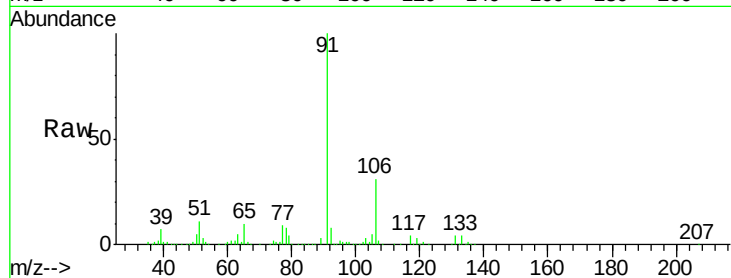
VSTDCCC050EC

Tot Ion: 91 Resp: 579816

Ion Ratio Lower Upper

91 100

106 30.9 23.1 34.7



#68

m/p-Xylenes

Concen: 98.752 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061434.D

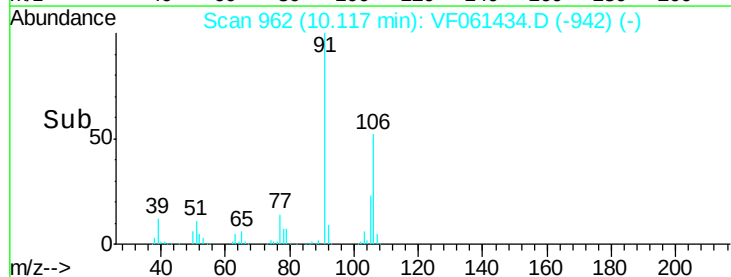
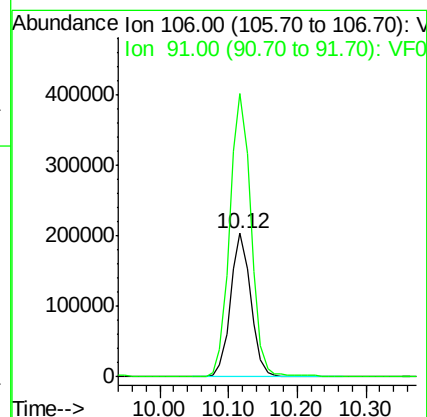
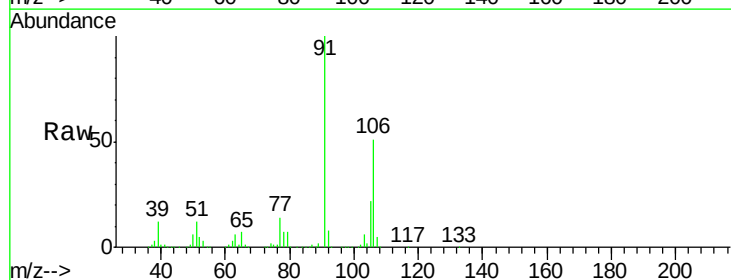
Acq: 17 Jan 2019 2:24

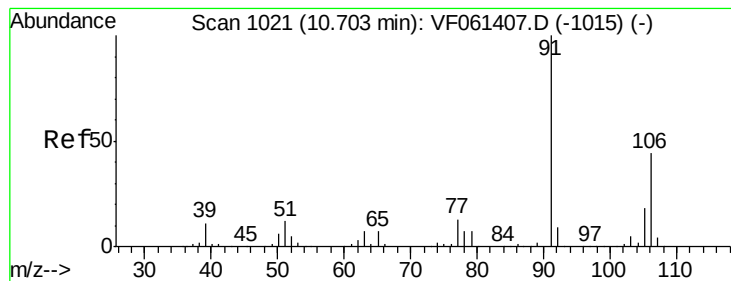
Tgt Ion: 106 Resp: 416102

Ion Ratio Lower Upper

106 100

91 197.3 166.2 249.4





#69

o-Xylene

Concen: 51.380 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

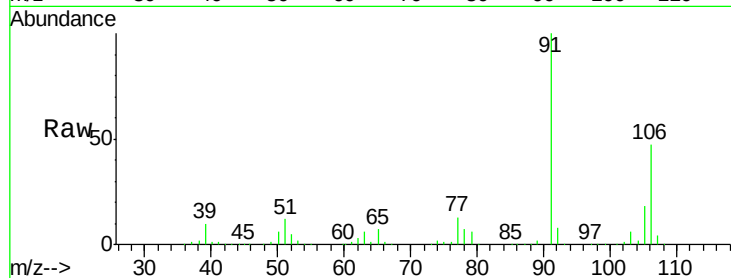
VSTDCCC050EC

Tot Ion:106 Resp: 234643

Ion Ratio Lower Upper

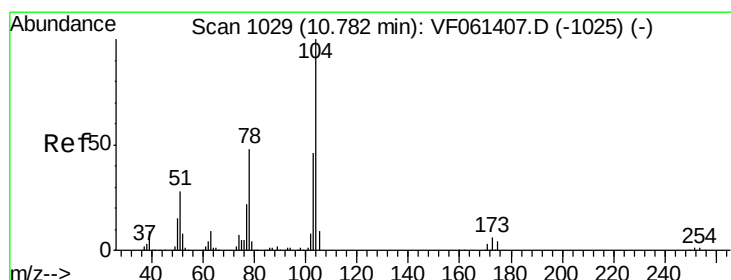
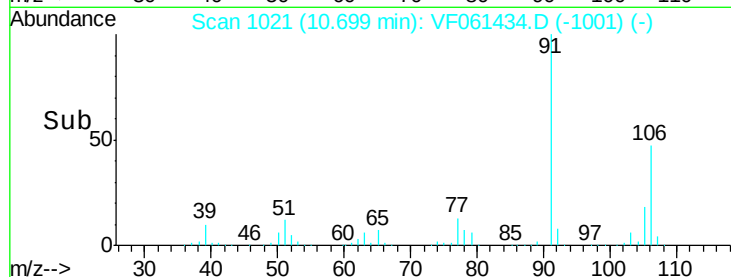
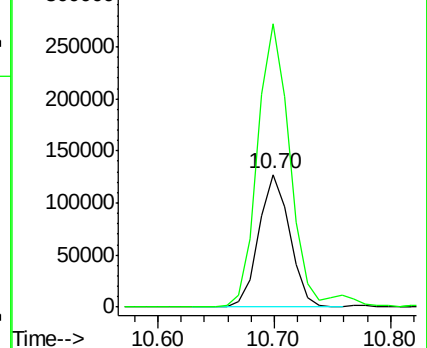
106 100

91 213.4 113.3 339.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#70

Styrene

Concen: 49.507 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

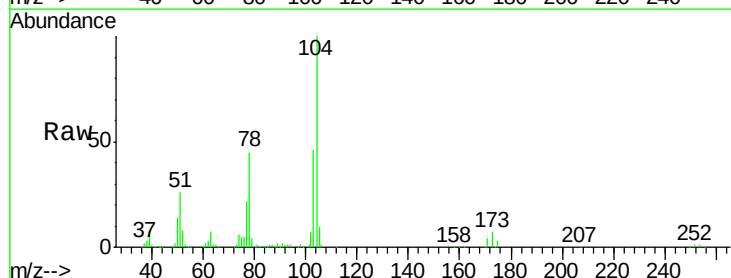
Tgt Ion:104 Resp: 309476

Ion Ratio Lower Upper

104 100

78 45.0 38.8 58.2

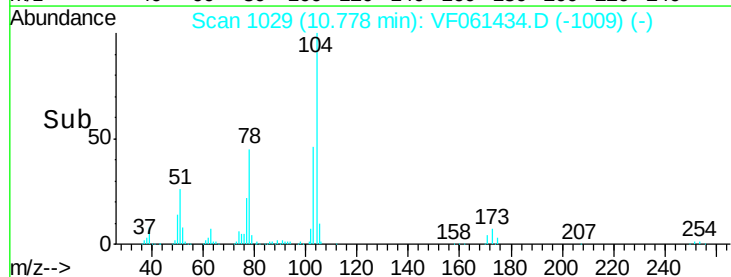
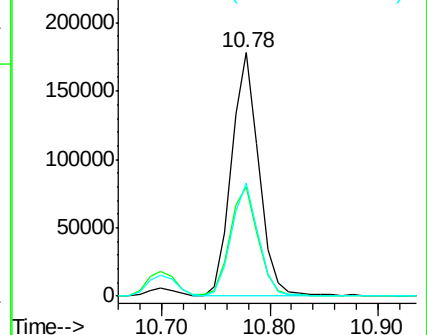
103 46.4 37.0 55.6

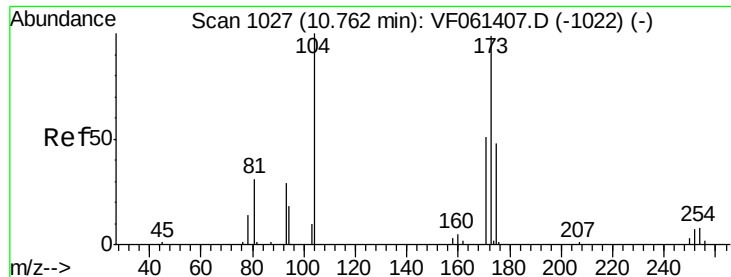


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 52.114 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

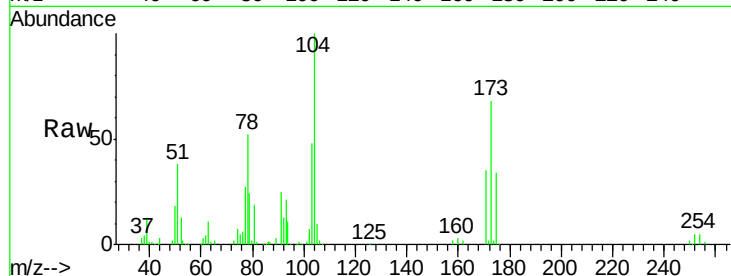
Tot Ion:173 Resp: 59811

Ion Ratio Lower Upper

173 100

175 49.8 24.1 72.4

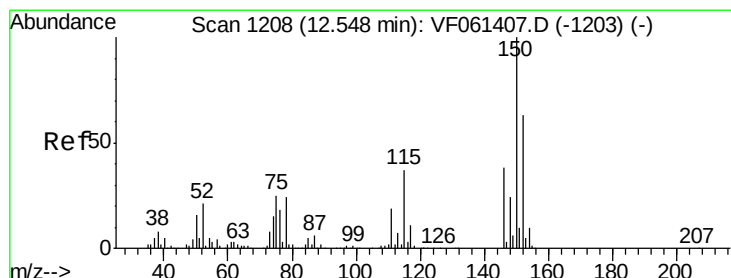
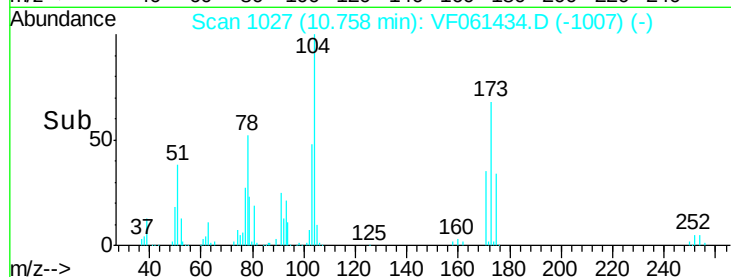
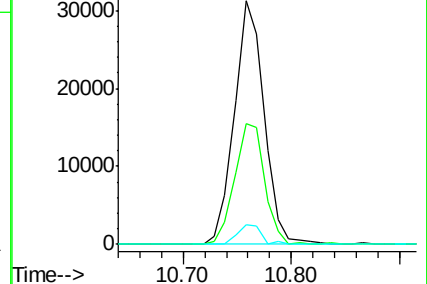
254 7.9 0.0 0.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

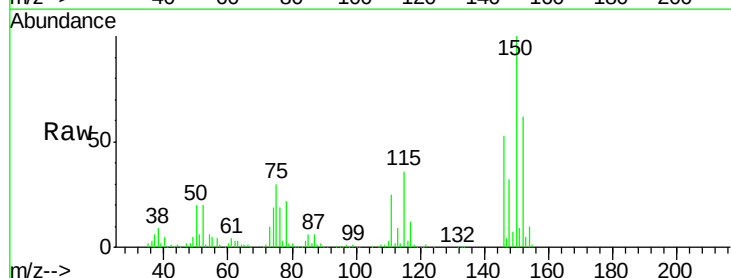
Tgt Ion:152 Resp: 143922

Ion Ratio Lower Upper

152 100

115 59.0 30.0 90.0

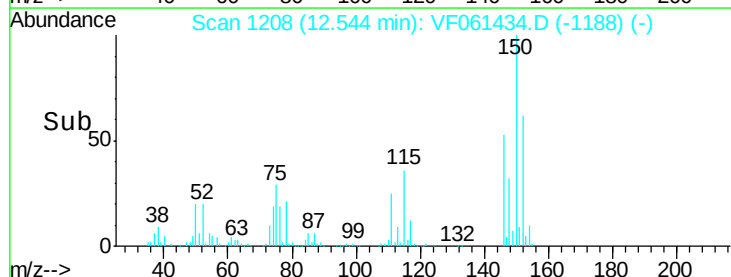
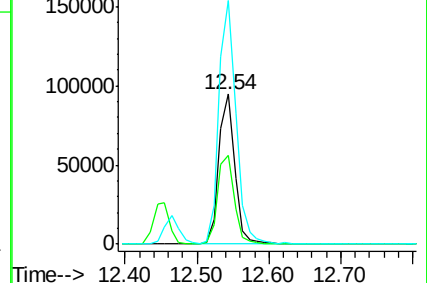
150 162.2 0.0 321.4

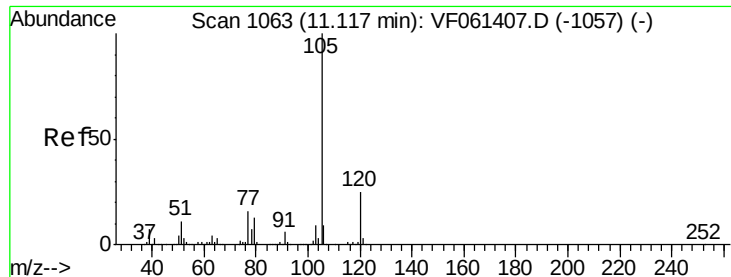


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 56.052 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

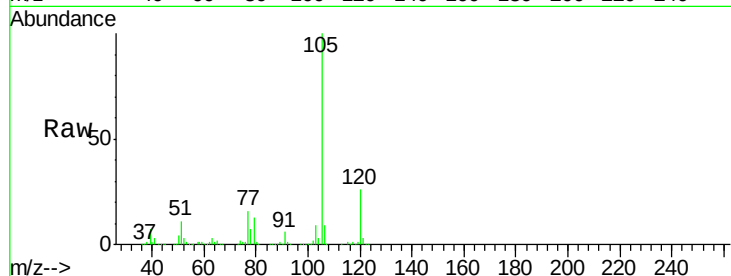
VSTDCCC050EC

Tot Ion:105 Resp: 656118

Ion Ratio Lower Upper

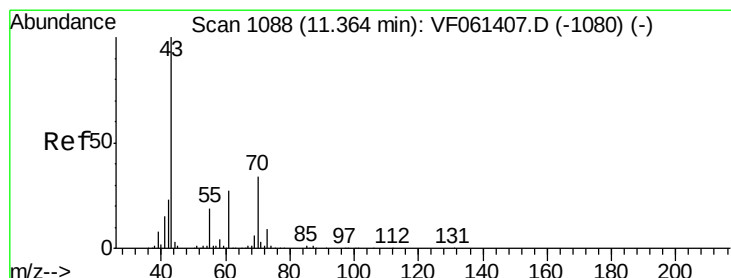
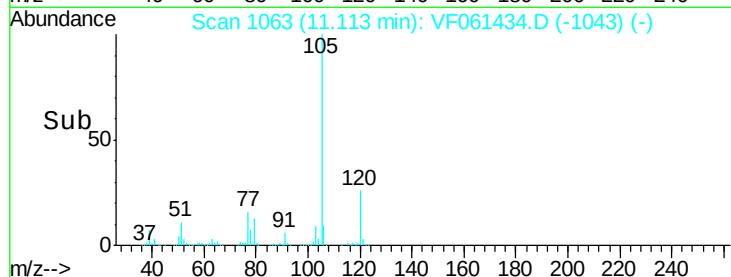
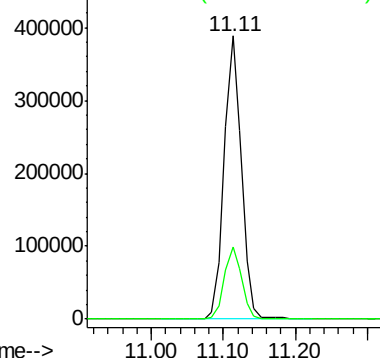
105 100

120 25.5 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 61.945 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Tgt Ion: 43 Resp: 171458

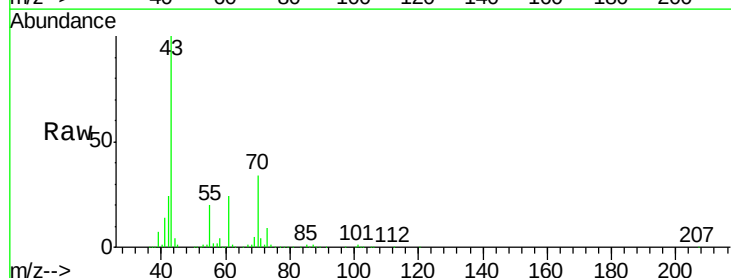
Ion Ratio Lower Upper

43 100

70 34.4 27.6 41.4

55 20.0 15.4 23.2

61 23.9 21.8 32.6

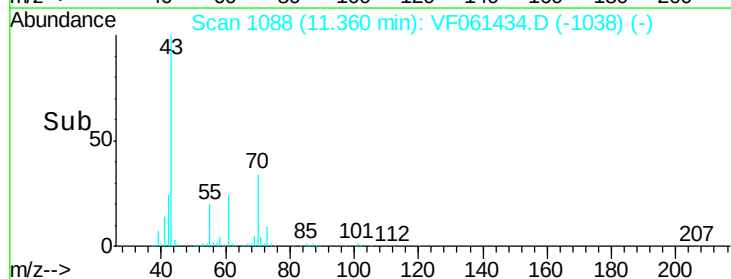
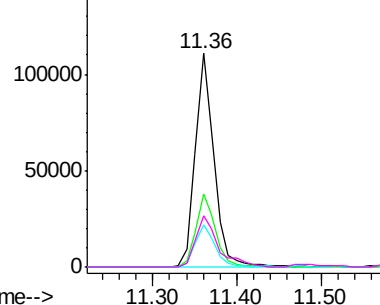


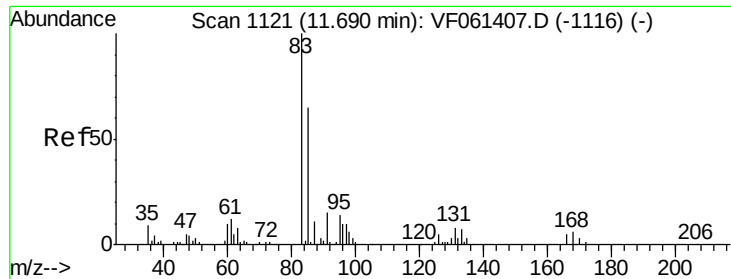
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 55.898 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

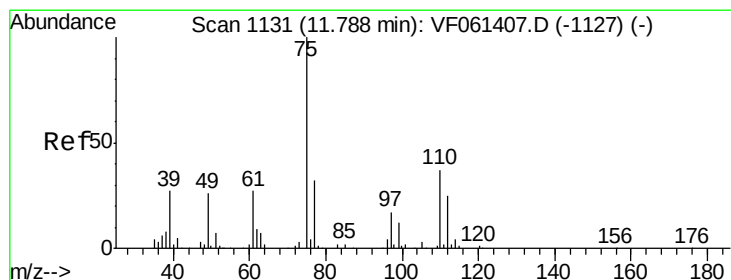
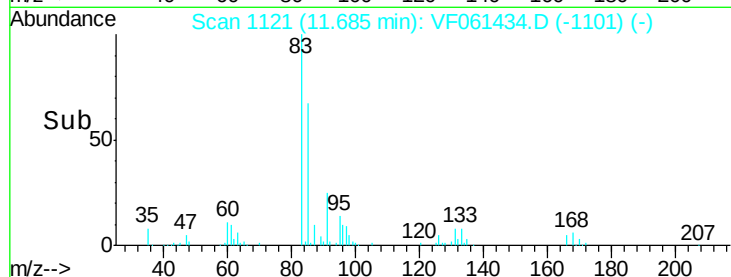
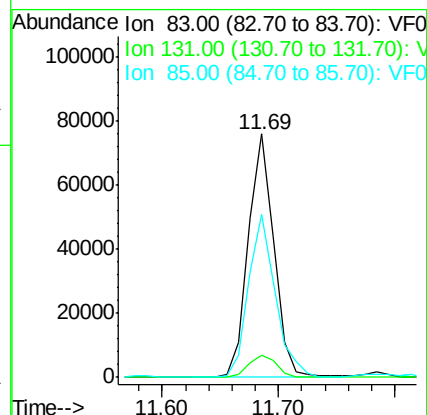
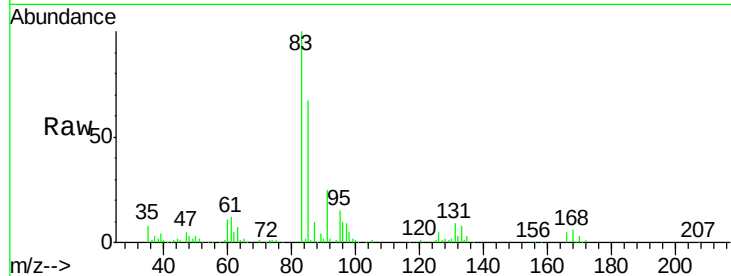
Tot Ion: 83 Resp: 116563

Ion Ratio Lower Upper

83 100

131 9.1 4.0 12.2

85 67.1 32.7 98.1



#76

1,2,3-Trichloropropane

Concen: 52.642 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF061434.D

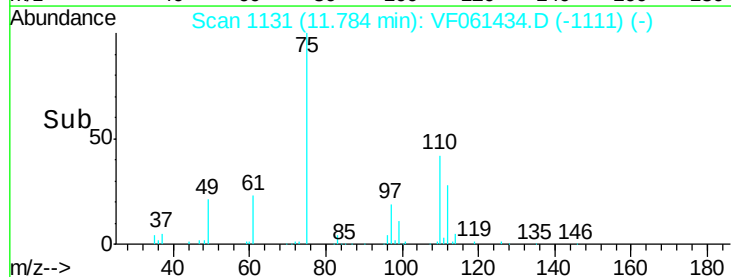
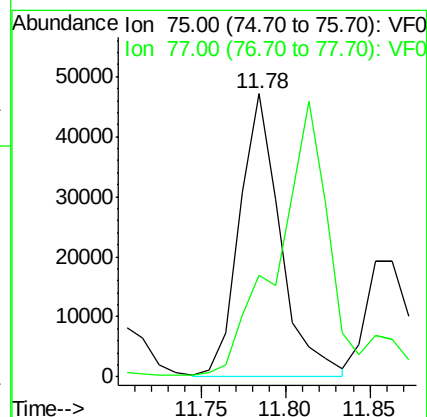
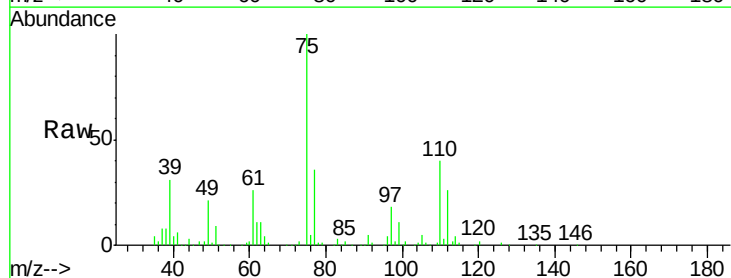
Acq: 17 Jan 2019 2:24

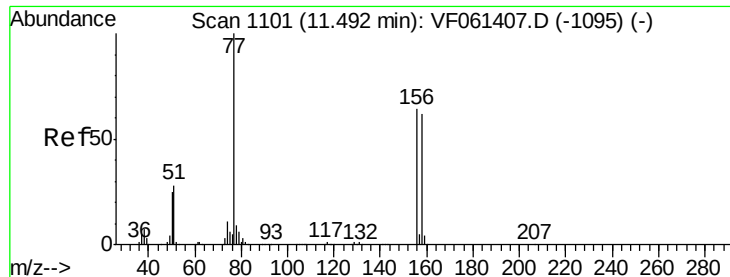
Tgt Ion: 75 Resp: 78877

Ion Ratio Lower Upper

75 100

77 35.7 16.1 48.3





#77

Bromobenzene

Concen: 54.823 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

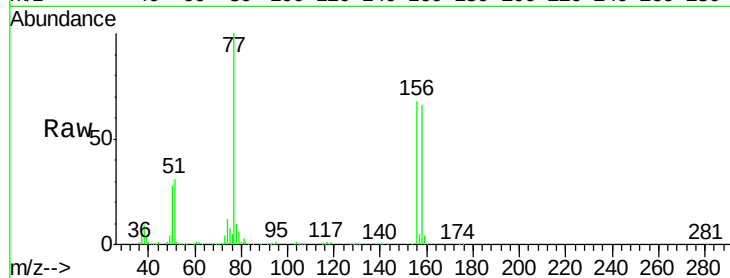
Tot Ion:156 Resp: 135528

Ion Ratio Lower Upper

156 100

77 147.3 78.3 234.9

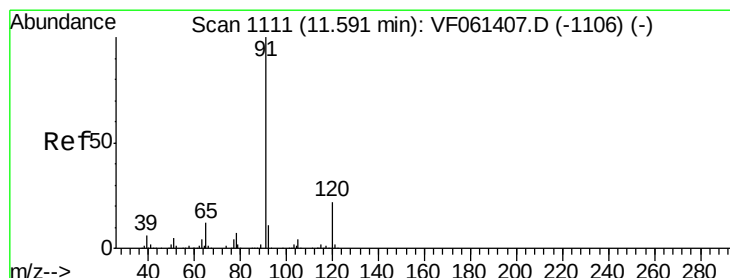
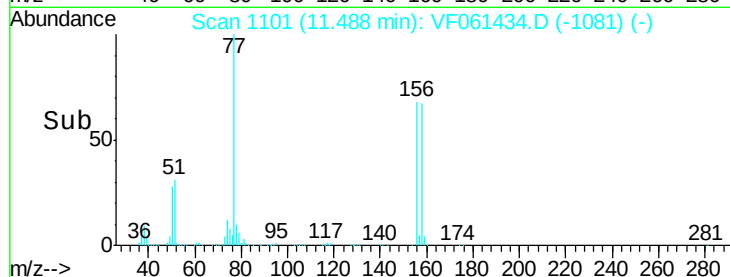
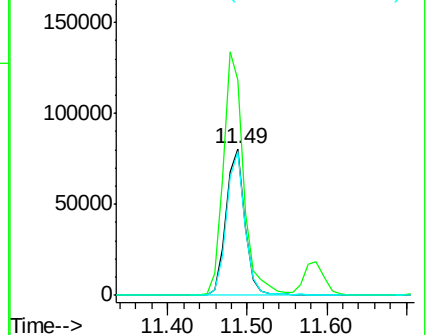
158 97.9 48.9 146.7



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: 52.980 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061434.D

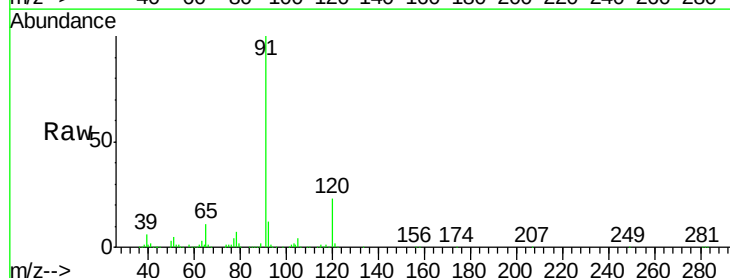
Acq: 17 Jan 2019 2:24

Tgt Ion: 91 Resp: 749718

Ion Ratio Lower Upper

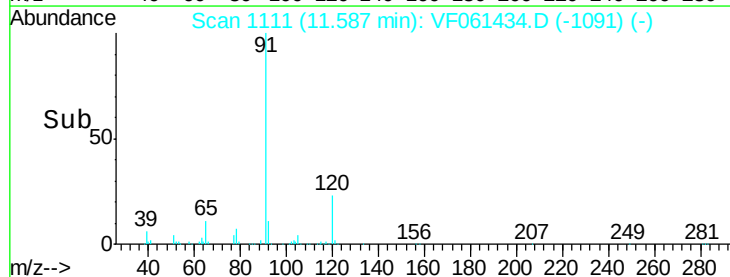
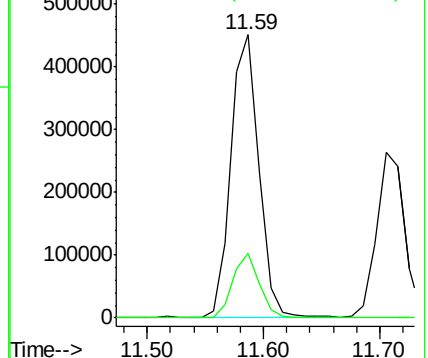
91 100

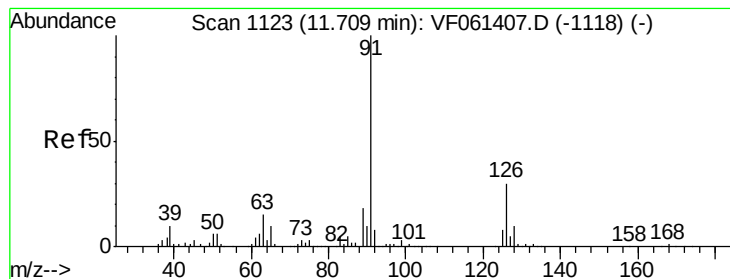
120 22.7 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.672 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

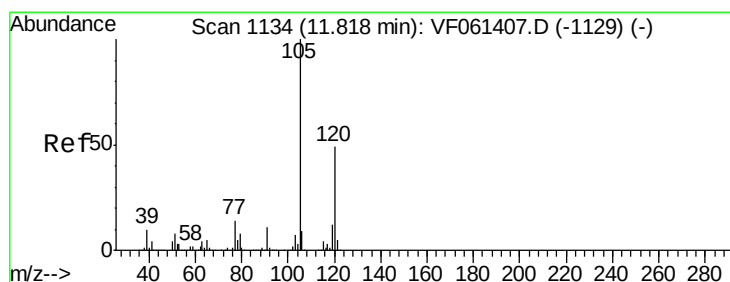
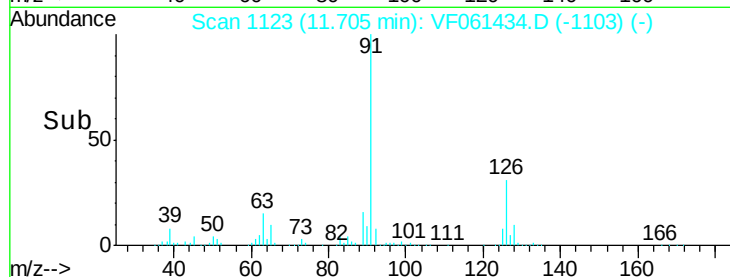
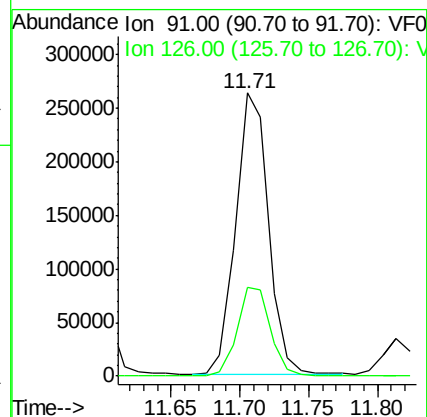
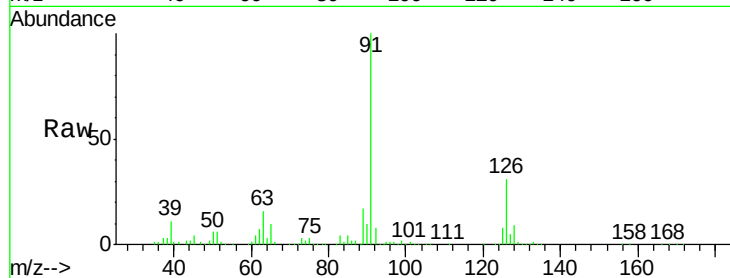
VSTDCCC050EC

Tot Ion: 91 Resp: 435904

Ion Ratio Lower Upper

91 100

126 31.3 15.0 45.1



#80

1,3,5-Trimethylbenzene

Concen: 52.558 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF061434.D

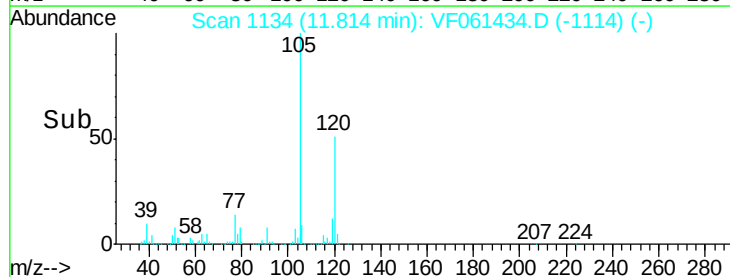
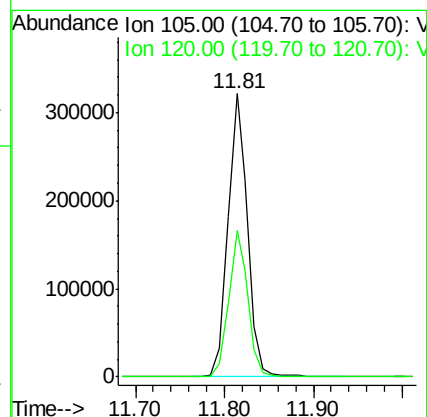
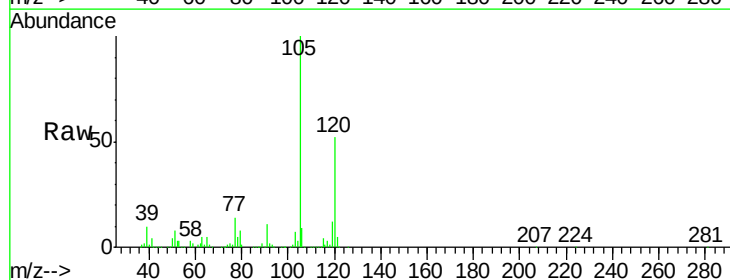
Acq: 17 Jan 2019 2:24

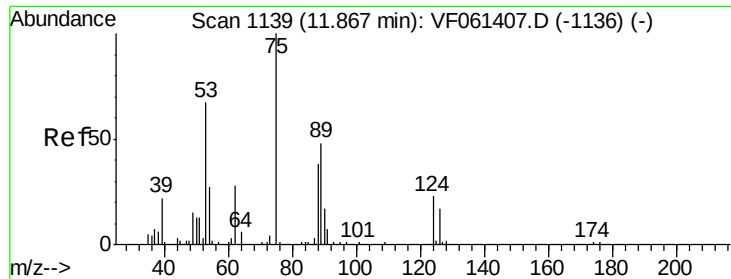
Tgt Ion:105 Resp: 496490

Ion Ratio Lower Upper

105 100

120 51.5 24.7 74.1

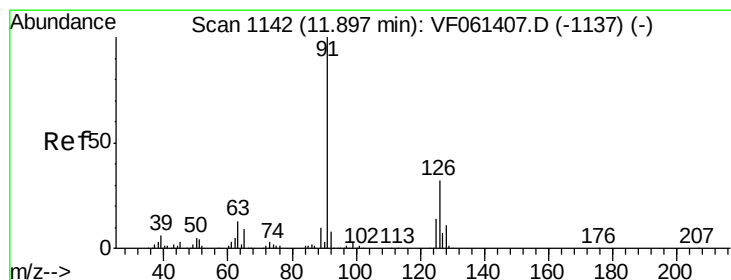
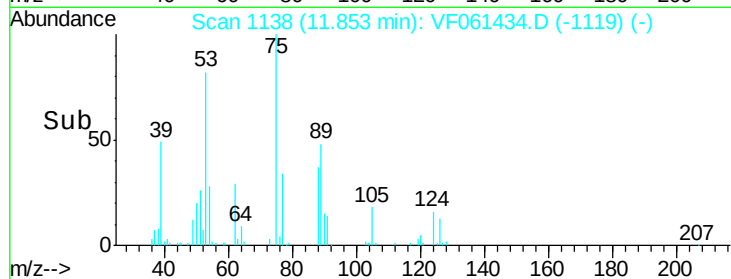
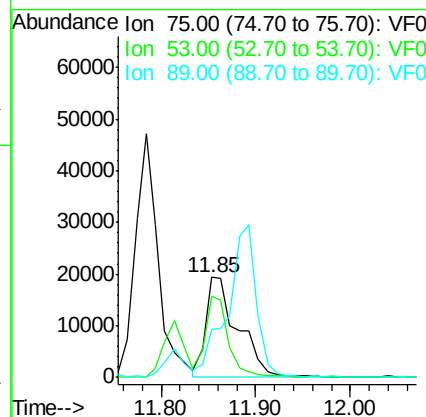
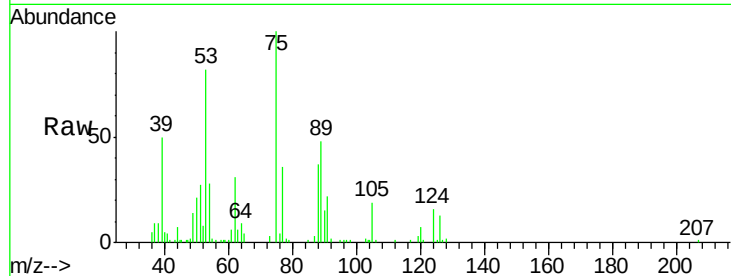




#81
trans-1,4-Dichloro-2-butene
Concen: 71.381 ug/l
RT: 11.85 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

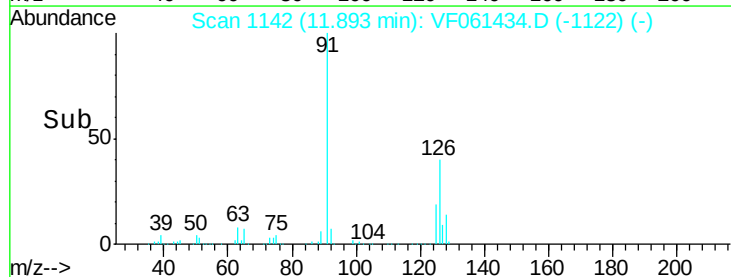
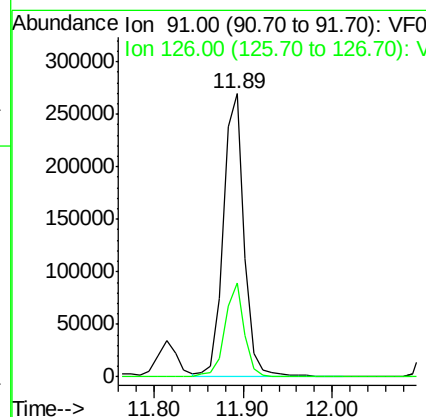
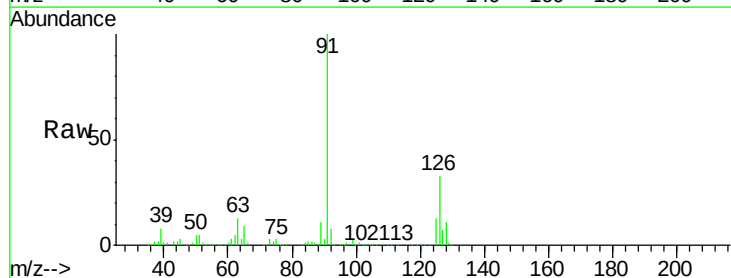
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

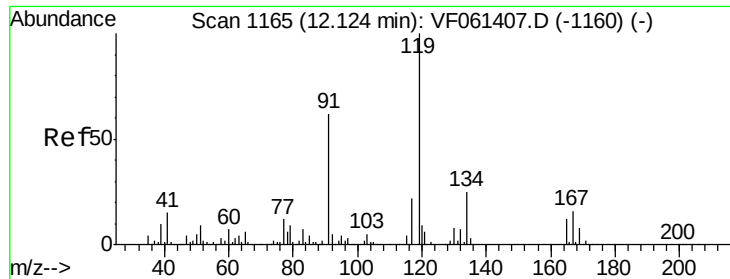
Tot Ion: 75 Resp: 46495
Ion Ratio Lower Upper
75 100
53 81.7 57.8 86.6
89 48.3 40.7 61.1



#82
4-Chlorotoluene
Concen: 53.652 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VF061434.D
Acq: 17 Jan 2019 2:24

Tgt Ion: 91 Resp: 439711
Ion Ratio Lower Upper
91 100
126 33.3 16.0 47.9

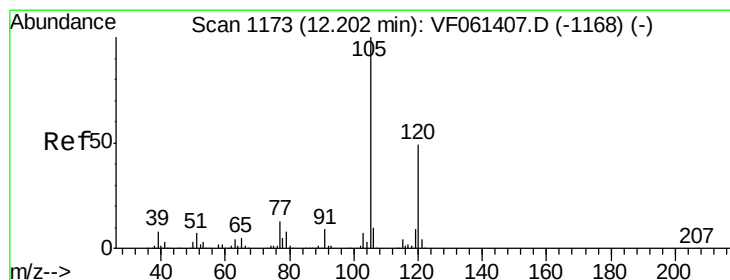
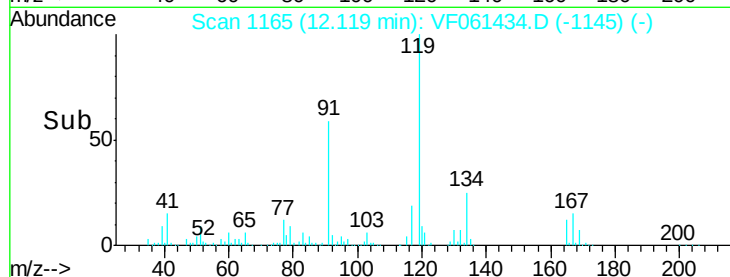
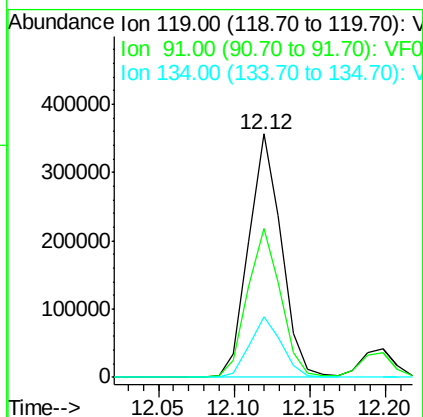
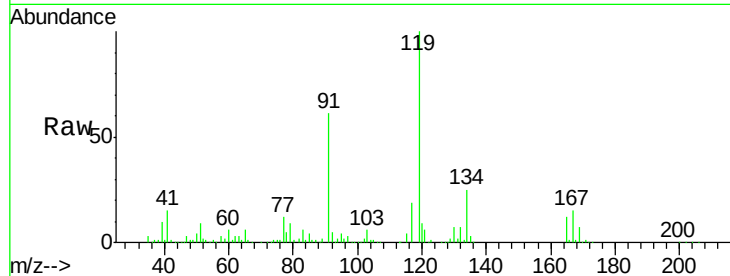




#83
 tert-Butylbenzene
 Concen: 55.289 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

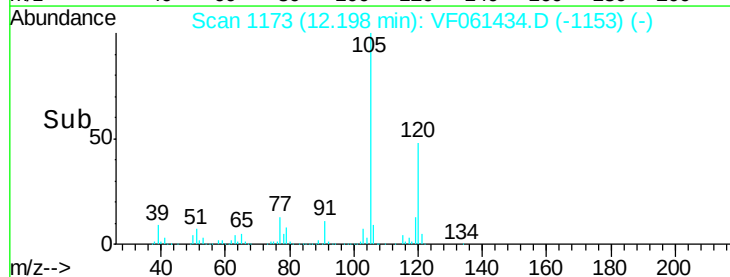
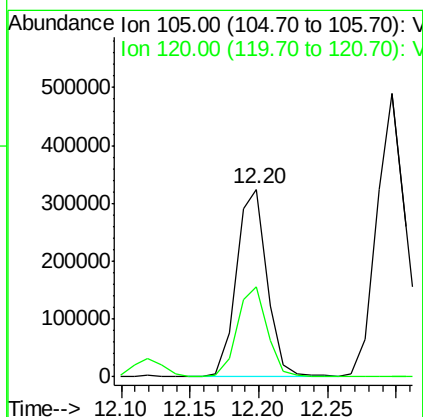
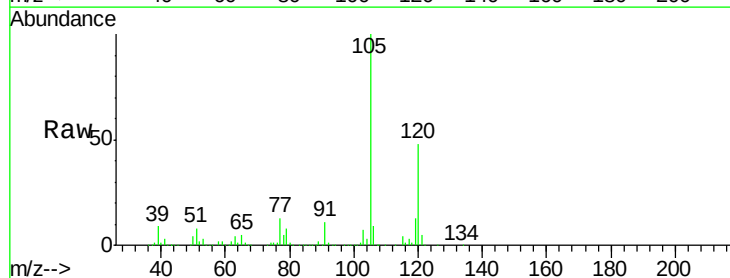
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

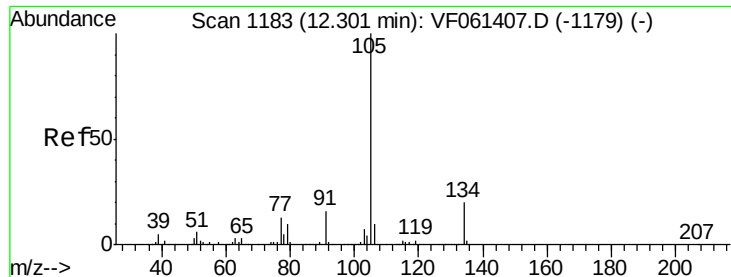
Tot Ion:119 Resp: 540574
 Ion Ratio Lower Upper
 119 100
 91 61.0 31.3 93.8
 134 24.7 12.4 37.0



#84
 1,2,4-Trimethylbenzene
 Concen: 51.658 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Tgt Ion:105 Resp: 502653
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.9 74.6





#85

sec-Butylbenzene

Concen: 53.968 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

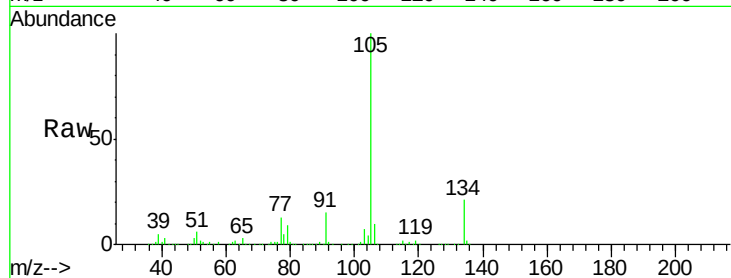
VSTDCCC050EC

Tot Ion:105 Resp: 716578

Ion Ratio Lower Upper

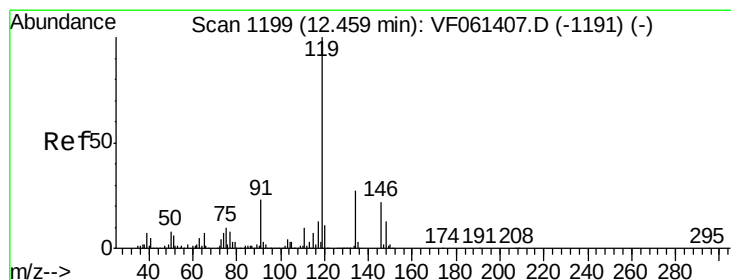
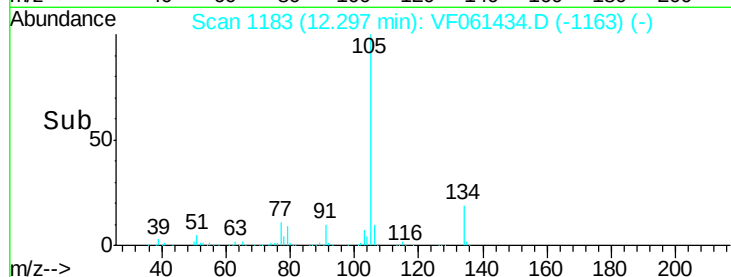
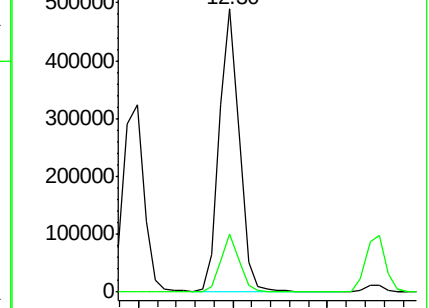
105 100

134 20.7 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.979 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

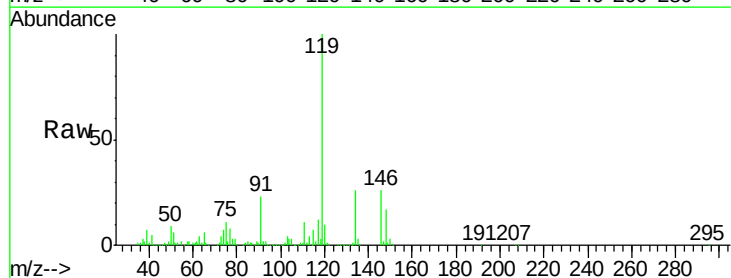
Tgt Ion:119 Resp: 588350

Ion Ratio Lower Upper

119 100

134 26.0 13.4 40.2

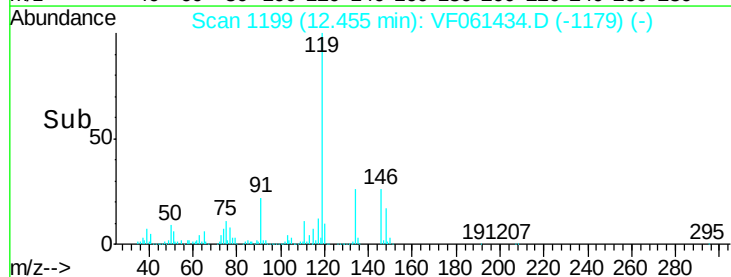
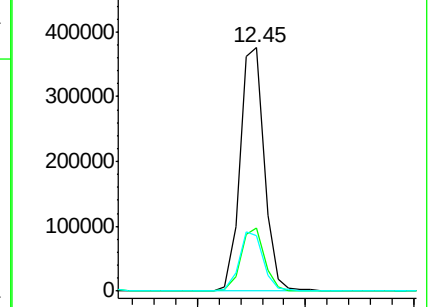
91 22.6 11.4 34.2

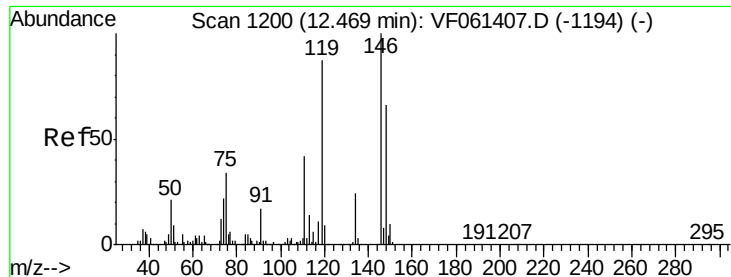


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

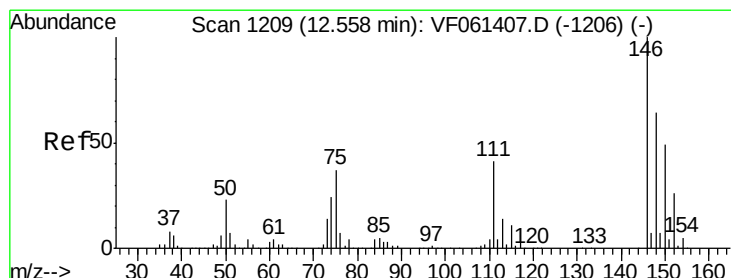
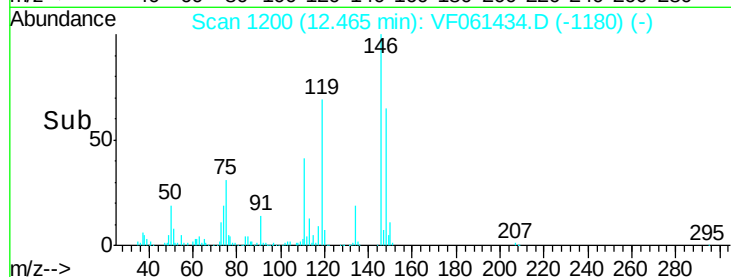
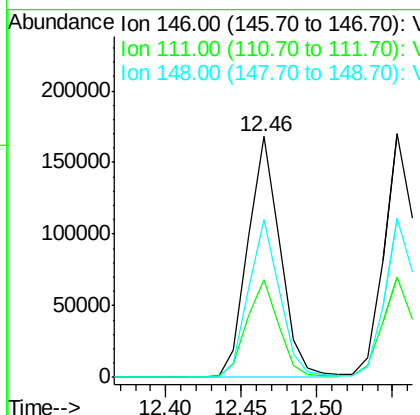
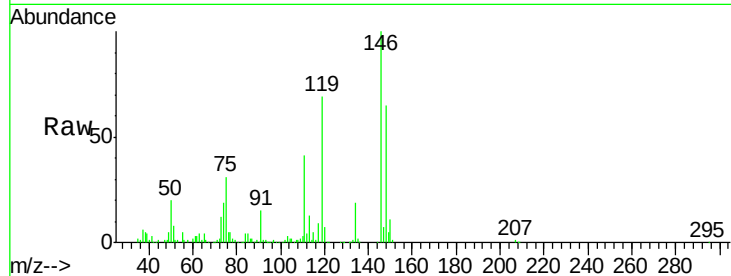




#87
 1,3-Dichlorobenzene
 Concen: 51.338 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

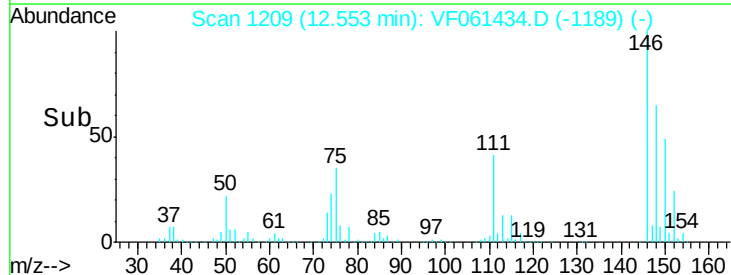
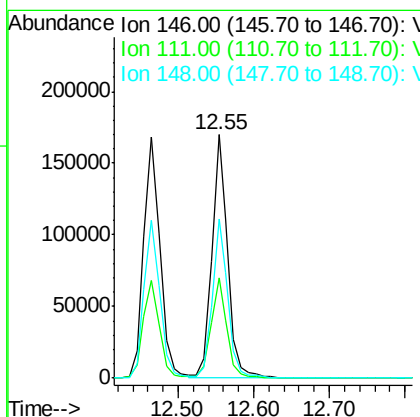
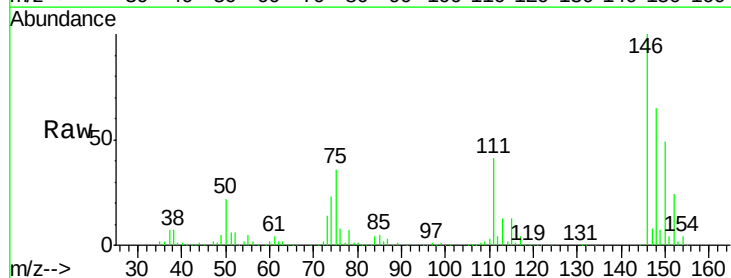
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

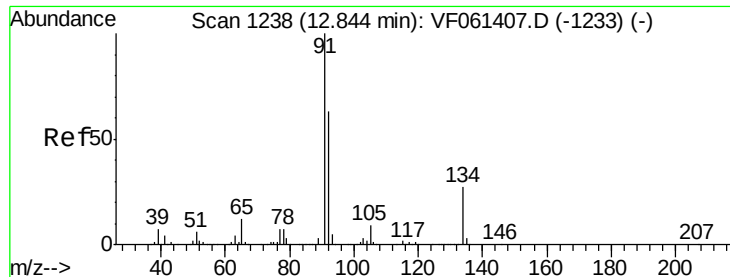
Tot Ion:146 Resp: 251561
 Ion Ratio Lower Upper
 146 100
 111 40.7 21.1 63.4
 148 65.4 32.9 98.6



#88
 1,4-Dichlorobenzene
 Concen: 53.393 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Tgt Ion:146 Resp: 249420
 Ion Ratio Lower Upper
 146 100
 111 41.0 20.8 62.2
 148 65.5 32.1 96.5





#89

n-Butylbenzene

Concen: 53.437 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

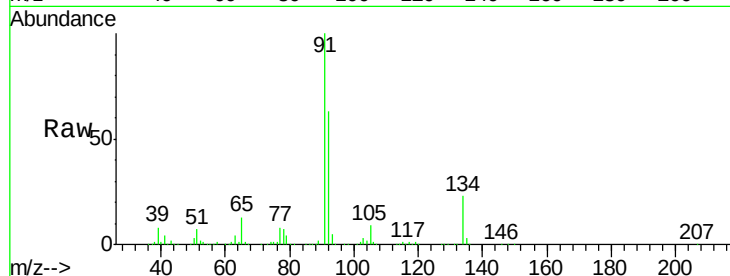
Tot Ion: 91 Resp: 600682

Ion Ratio Lower Upper

91 100

92 63.3 31.6 94.7

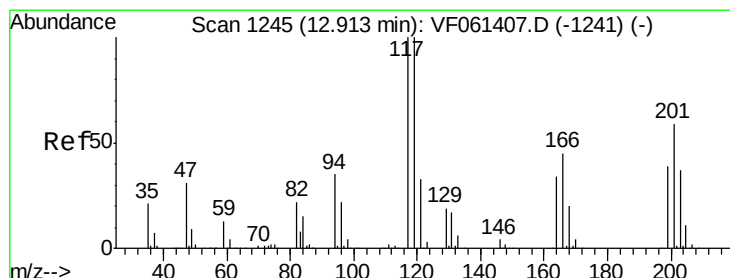
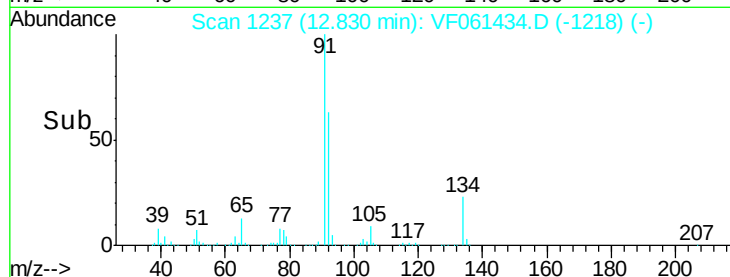
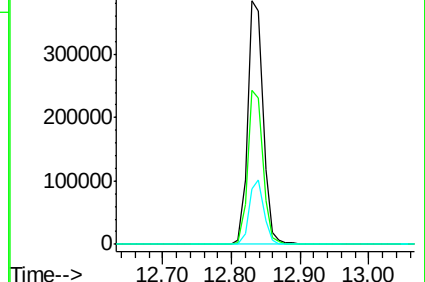
134 22.8 13.6 40.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 58.832 ug/l

RT: 12.91 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VF061434.D

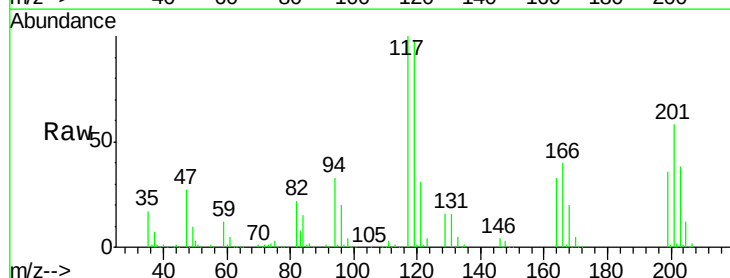
Acq: 17 Jan 2019 2:24

Tgt Ion: 117 Resp: 151160

Ion Ratio Lower Upper

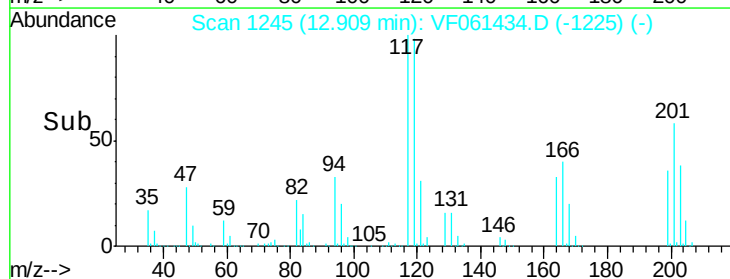
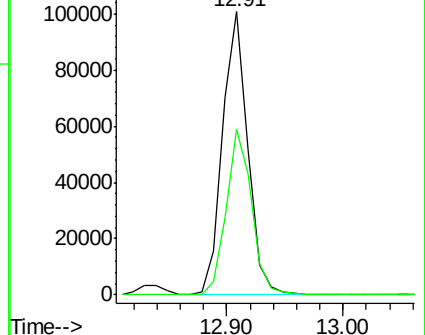
117 100

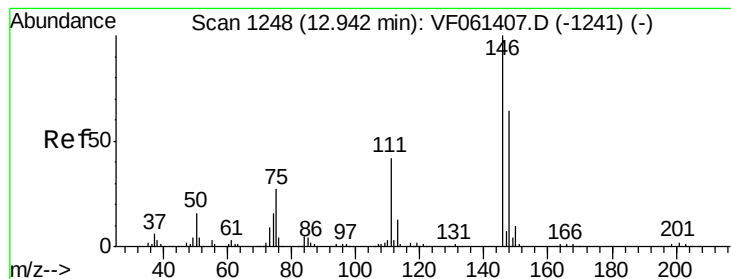
201 58.3 29.3 87.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 54.557 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

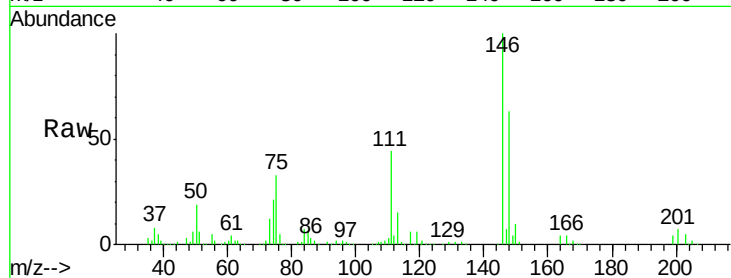
Tot Ion:146 Resp: 252297

Ion Ratio Lower Upper

146 100

111 44.1 21.1 63.3

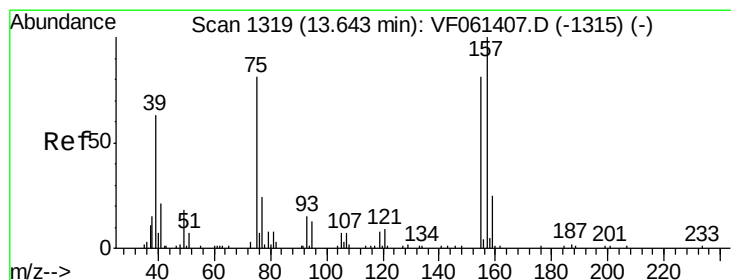
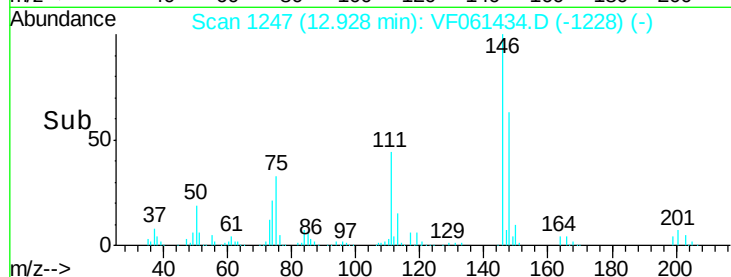
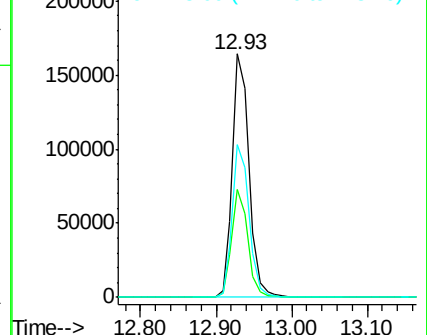
148 62.9 31.9 95.7



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 57.399 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

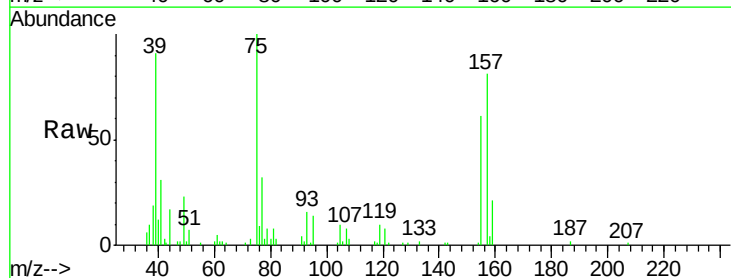
Tgt Ion: 75 Resp: 21230

Ion Ratio Lower Upper

75 100

155 60.6 49.7 149.1

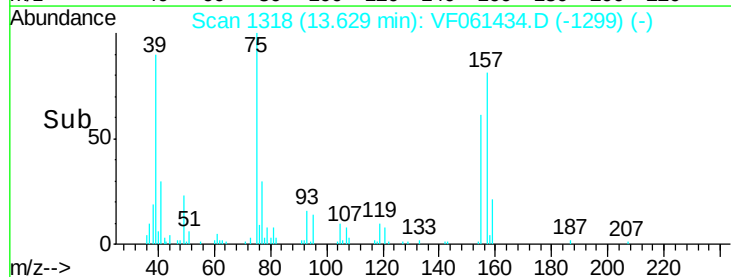
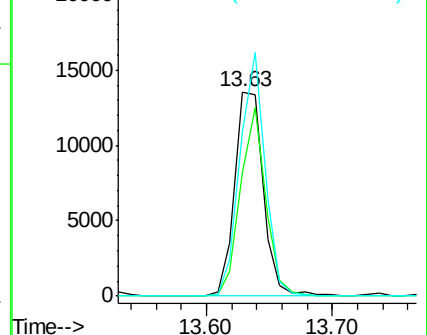
157 80.8 61.4 184.1

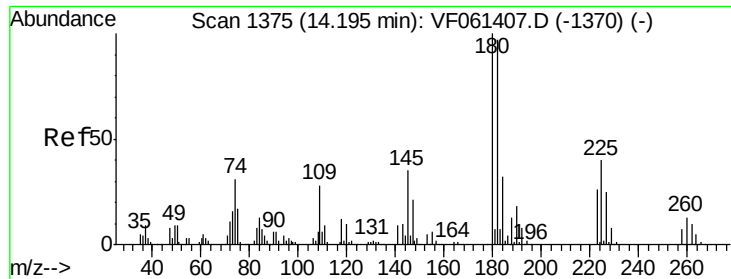


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

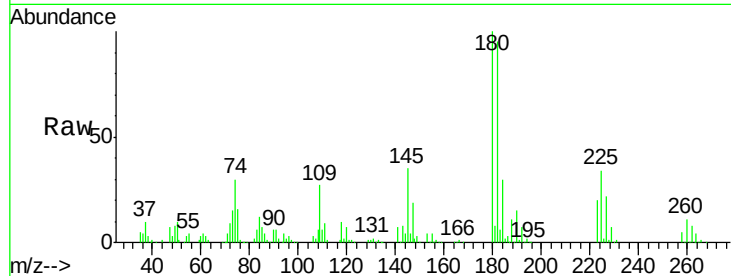




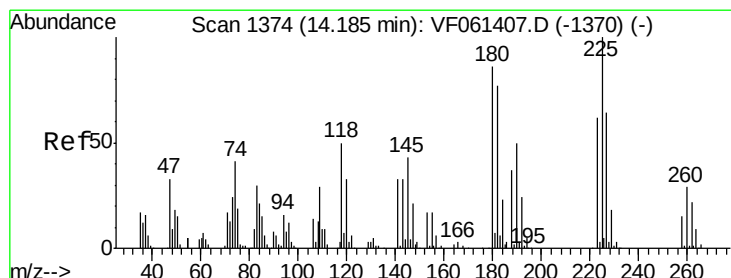
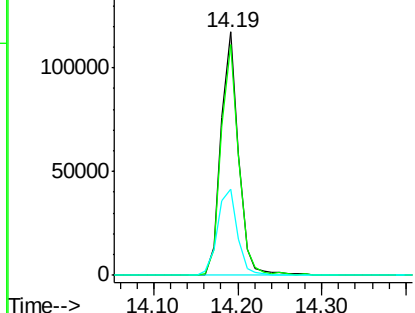
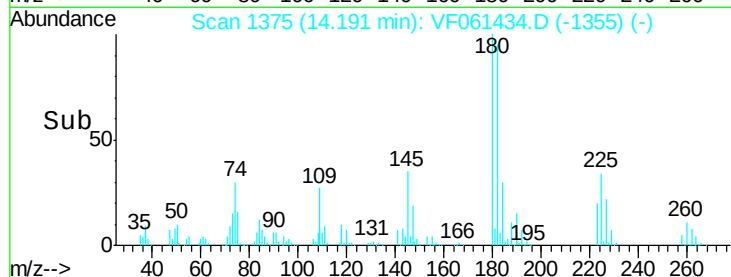
#93
 1,2,4-Trichlorobenzene
 Concen: 52.863 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:180 Resp: 171252
 Ion Ratio Lower Upper
 180 100
 182 95.0 48.5 145.6
 145 35.3 17.5 52.6

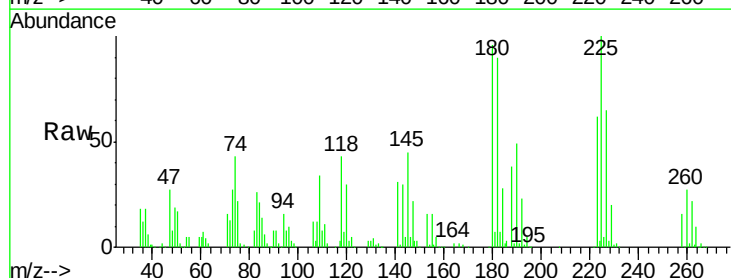


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

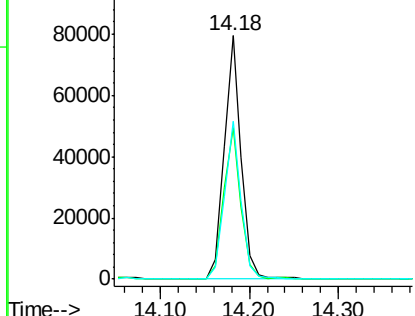
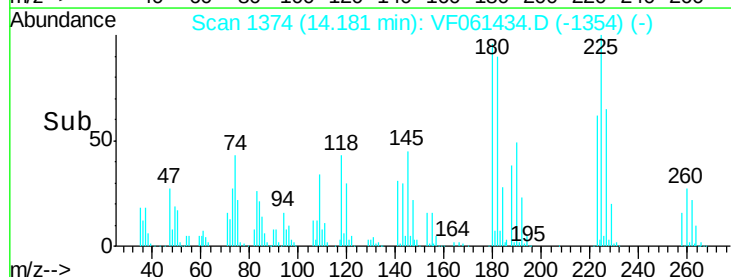


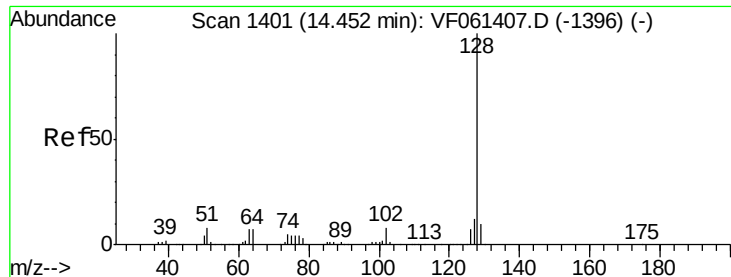
#94
 Hexachlorobutadiene
 Concen: 53.262 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061434.D
 Acq: 17 Jan 2019 2:24

Tgt Ion:225 Resp: 107069
 Ion Ratio Lower Upper
 225 100
 223 62.3 31.1 93.2
 227 64.6 32.2 96.6



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: 55.714 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

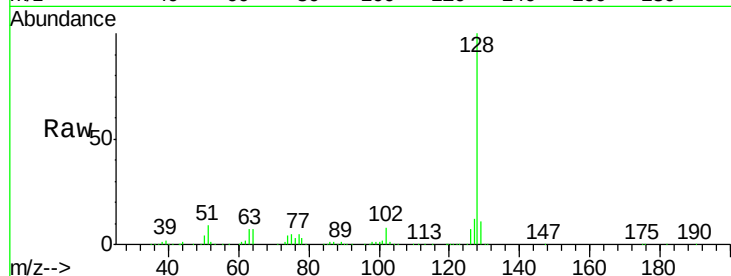
Tot Ion:128 Resp: 342913

Ion Ratio Lower Upper

128 100

127 11.8 9.5 14.3

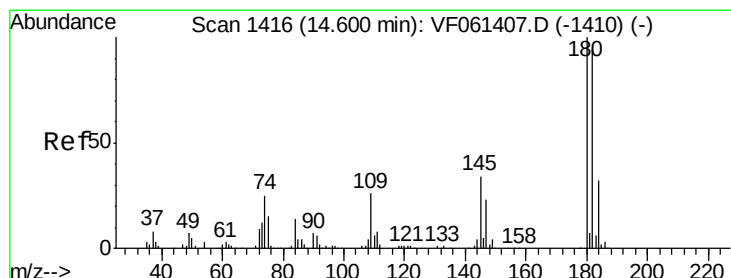
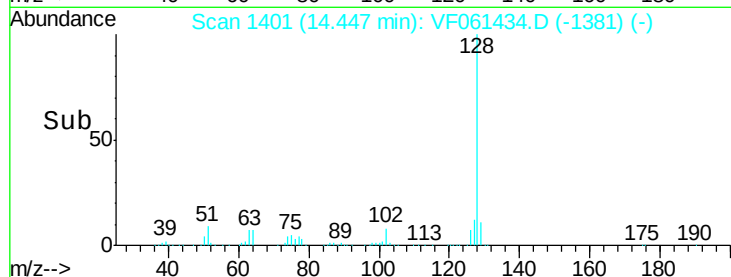
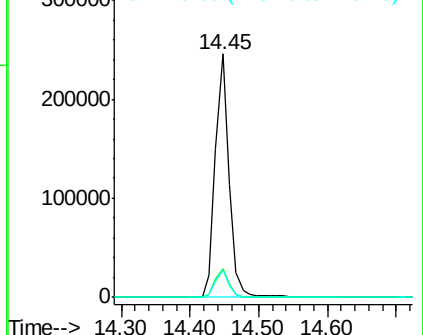
129 11.1 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 53.611 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061434.D

Acq: 17 Jan 2019 2:24

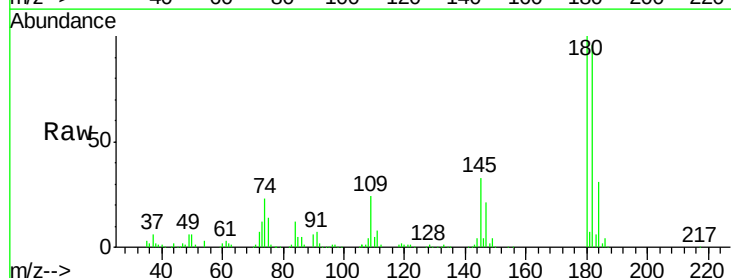
Tgt Ion:180 Resp: 160773

Ion Ratio Lower Upper

180 100

182 95.7 47.0 141.2

145 32.6 17.1 51.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

