

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062171.D
 Acq On : 16 Apr 2019 11:47
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Quant Time: Apr 17 07:28:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:22:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	453212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	682935	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	539609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	293965	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	77864	19.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	38.14%	
35) Dibromofluoromethane	4.29	113	109459	20.32	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	40.64%	
50) Toluene-d8	7.71	98	315484	20.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	40.08%	
62) 4-Bromofluorobenzene	11.49	95	131459	21.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	42.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	137574	20.653	ug/l	93
3) Chloromethane	1.13	50	142924	19.961	ug/l	98
4) Vinyl Chloride	1.18	62	126091	20.114	ug/l	98
5) Bromomethane	1.37	94	76160	18.929	ug/l	97
6) Chloroethane	1.44	64	55056	18.563	ug/l	95
7) Trichlorofluoromethane	1.54	101	151183	20.223	ug/l	99
8) Diethyl Ether	1.70	74	30309	20.097	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.91	101	96887	19.800	ug/l	100
10) Methyl Iodide	1.98	142	179702	19.701	ug/l	97
11) Tert butyl alcohol	2.69	59	23928	105.723	ug/l #	79
12) 1,1-Dichloroethene	1.86	96	100748	20.245	ug/l	98
13) Acrolein	2.10	56	19435	110.130	ug/l	91
14) Allyl chloride	2.20	41	139799	18.657	ug/l	99
15) Acrylonitrile	3.08	53	89807	107.764	ug/l	94
16) Acetone	2.34	43	80317	87.246	ug/l	95
17) Carbon Disulfide	1.89	76	275810	19.488	ug/l	96
18) Methyl Acetate	2.45	43	40681	18.625	ug/l	94
19) Methyl tert-butyl Ether	2.54	73	163061	19.699	ug/l	100
20) Methylene Chloride	2.33	84	60531	11.476	ug/l	92
21) trans-1,2-Dichloroethene	2.42	96	93483	19.634	ug/l	95
22) Diisopropyl ether	2.93	45	272156	19.539	ug/l	96
23) Vinyl Acetate	3.34	43	732662	105.452	ug/l	100
24) 1,1-Dichloroethane	3.00	63	155372	20.032	ug/l	100
25) 2-Butanone	4.52	43	198947	100.572	ug/l	97
26) 2,2-Dichloropropane	3.77	77	84810	20.788	ug/l	98
27) cis-1,2-Dichloroethene	3.64	96	127794	20.220	ug/l	95
28) Bromochloromethane	3.90	49	80408	21.650	ug/l	95
29) Tetrahydrofuran	4.27	42	89500	101.752	ug/l	99
30) Chloroform	4.05	83	194721	20.193	ug/l	99
31) Cyclohexane	3.87	56	203260	20.300	ug/l	97
32) 1,1,1-Trichloroethane	4.28	97	133276	20.268	ug/l	99
36) 1,1-Dichloropropene	4.47	75	158569	20.898	ug/l	98
37) Ethyl Acetate	4.29	43	74310	21.254	ug/l	97
38) Carbon Tetrachloride	4.18	117	133970	20.187	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	193939	20.396	ug/l	93
40) Benzene	4.82	78	401237	20.018	ug/l	98
41) Methacrylonitrile	4.93	41	42670	20.311	ug/l	96
42) 1,2-Dichloroethane	5.12	62	100989	19.907	ug/l	97
43) Isopropyl Acetate	7.11	43	78984	19.438	ug/l #	99
44) Trichloroethene	5.68	130	112477	20.966	ug/l	94
45) 1,2-Dichloropropane	6.40	63	98400	20.012	ug/l	97
46) Dibromomethane	6.26	93	61531	20.752	ug/l	99
47) Bromodichloromethane	6.55	83	137372	20.450	ug/l	99
48) Methyl methacrylate	6.88	41	51493	19.469	ug/l	95
49) 1,4-Dioxane	6.87	88	8704	422.310	ug/l	95
51) 4-Methyl-2-Pentanone	8.40	43	347693	111.696	ug/l	99
52) Toluene	7.77	92	242032	20.555	ug/l	92
53) t-1,3-Dichloropropene	8.42	75	123083	21.154	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	147571	19.946	ug/l	99
55) 1,1,2-Trichloroethane	8.63	97	70138	20.798	ug/l	97
56) Ethyl methacrylate	8.75	69	85754	21.385	ug/l	98
57) 1,3-Dichloropropane	9.00	76	112825	20.350	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	103907	100.569	ug/l	97
59) 2-Hexanone	9.62	43	195243	98.554	ug/l	94
60) Dibromochloromethane	8.86	129	97354	20.982	ug/l	98
61) 1,2-Dibromoethane	9.12	107	72227	20.019	ug/l	100
64) Tetrachloroethene	8.30	164	93384	21.189	ug/l	97
65) Chlorobenzene	9.93	112	229862	20.477	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	100282	21.639	ug/l	98
67) Ethyl Benzene	10.02	91	438092	21.054	ug/l	96
68) m/p-Xylenes	10.26	106	315244	41.147	ug/l	89
69) o-Xylene	10.82	106	176218	21.249	ug/l	96
70) Styrene	10.89	104	249262	20.676	ug/l	100
71) Bromoform	10.88	173	50908	20.976	ug/l	99
73) Isopropylbenzene	11.21	105	503632	19.887	ug/l	98
74) N-amyl acetate	11.45	43	130905	19.831	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	89891	19.925	ug/l	96
76) 1,2,3-Trichloropropane	11.87	75	58669	19.193	ug/l	95
77) Bromobenzene	11.58	156	102265	19.417	ug/l	86
78) n-propylbenzene	11.67	91	585113	20.326	ug/l	92
79) 2-Chlorotoluene	11.80	91	340065	20.041	ug/l	98
80) 1,3,5-Trimethylbenzene	11.89	105	417915	19.786	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.93	75	40320	24.512	ug/l	95
82) 4-Chlorotoluene	11.97	91	325242	19.559	ug/l	97
83) tert-Butylbenzene	12.19	119	419745	20.013	ug/l	93
84) 1,2,4-Trimethylbenzene	12.27	105	412101	20.104	ug/l	96
85) sec-Butylbenzene	12.37	105	542970	19.688	ug/l	100
86) p-Isopropyltoluene	12.52	119	469225	19.971	ug/l	95
87) 1,3-Dichlorobenzene	12.54	146	186397	19.344	ug/l	98
88) 1,4-Dichlorobenzene	12.62	146	191044	20.335	ug/l	97
89) n-Butylbenzene	12.89	91	483127	20.545	ug/l	92
90) Hexachloroethane	12.97	117	111804	19.426	ug/l	91
91) 1,2-Dichlorobenzene	13.00	146	182224	19.705	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	14402	17.725	ug/l	87

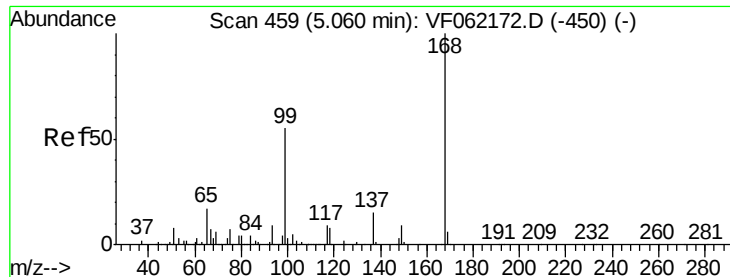
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	137950	19.862	ug/l	92
94) Hexachlorobutadiene	14.23	225	89135	19.693	ug/l	98
95) Naphthalene	14.49	128	233424	19.237	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	126504	19.550	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

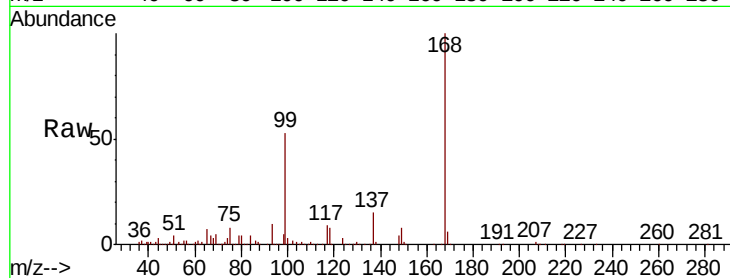
VSTDIC020

Tot Ion:168 Resp: 453212

Ion Ratio Lower Upper

168 100

99 53.4 44.2 66.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

150000

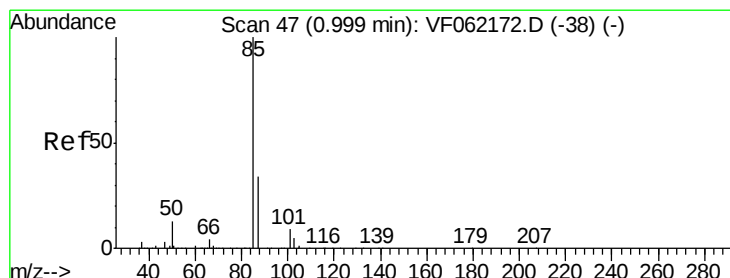
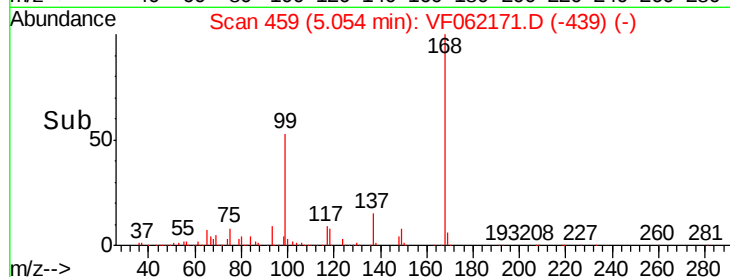
100000

50000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 20.653 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062171.D

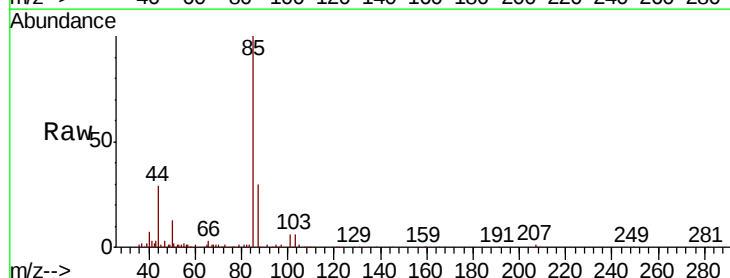
Acq: 16 Apr 2019 11:47

Tgt Ion: 85 Resp: 137574

Ion Ratio Lower Upper

85 100

87 29.7 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

40000

30000

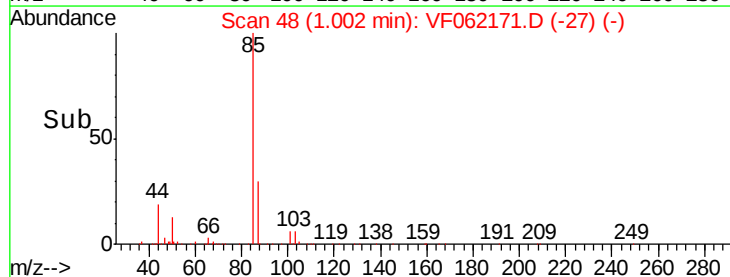
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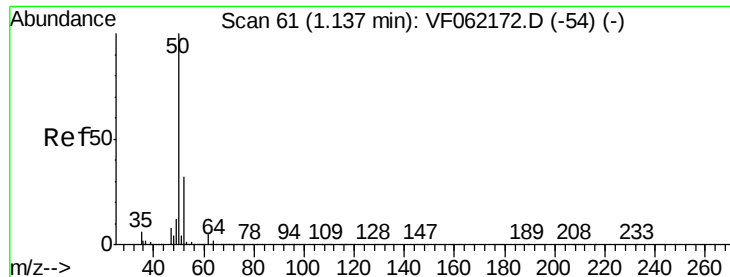
10000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 19.961 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

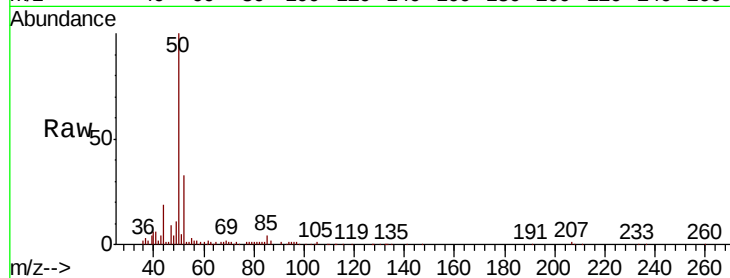
VSTDIC020

Tot Ion: 50 Resp: 142924

Ion Ratio Lower Upper

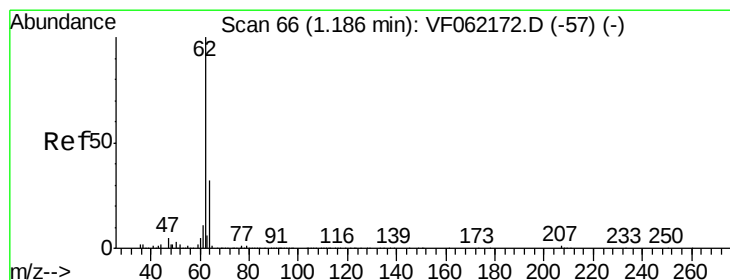
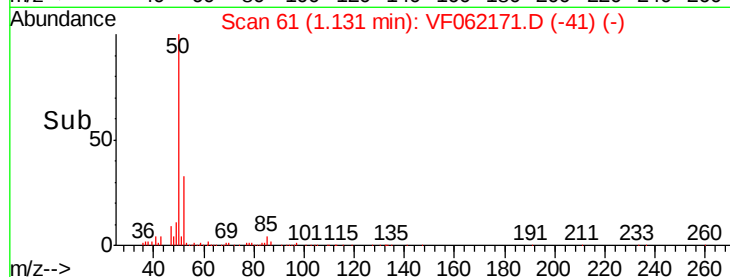
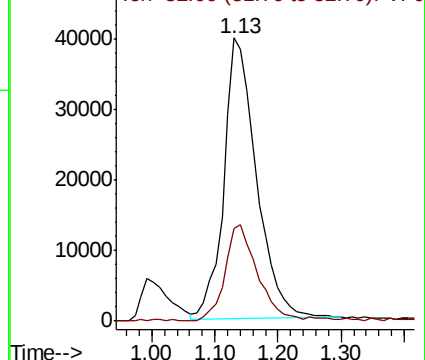
50 100

52 32.9 25.4 38.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 20.114 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062171.D

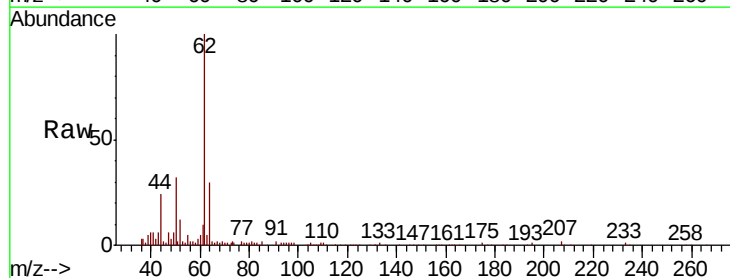
Acq: 16 Apr 2019 11:47

Tgt Ion: 62 Resp: 126091

Ion Ratio Lower Upper

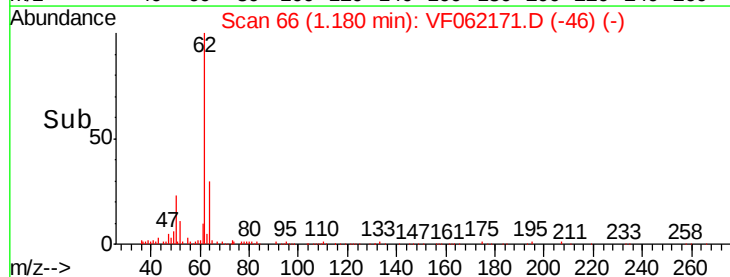
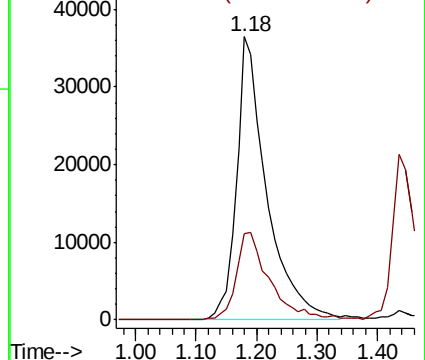
62 100

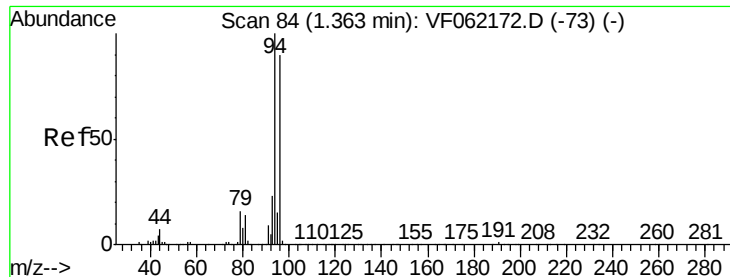
64 30.4 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 18.929 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

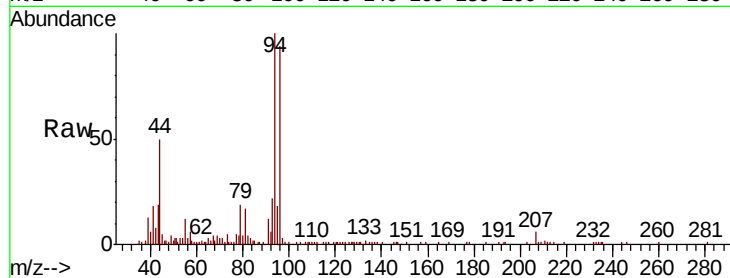
VSTDIC020

Tot Ion: 94 Resp: 76160

Ion Ratio Lower Upper

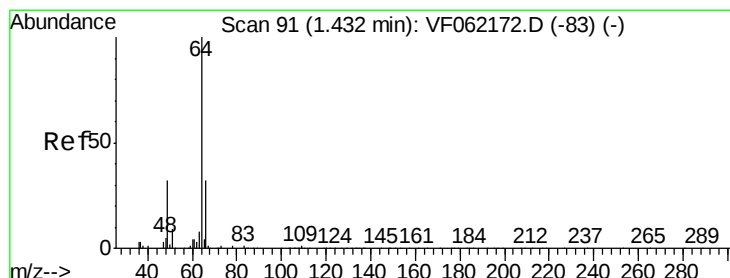
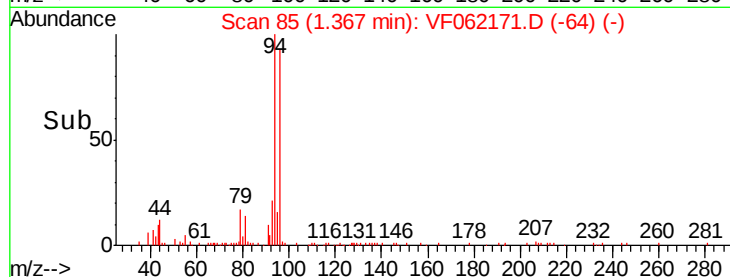
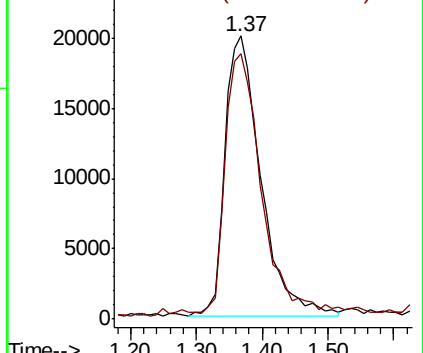
94 100

96 93.7 72.3 108.5



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 18.563 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VF062171.D

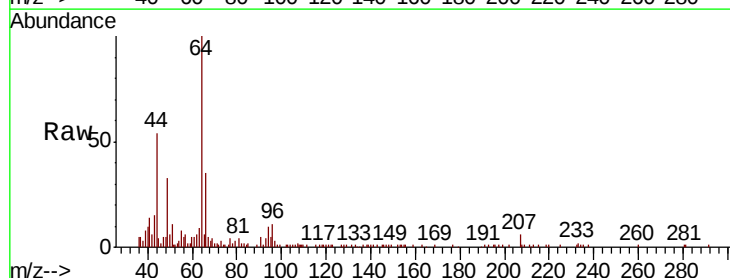
Acq: 16 Apr 2019 11:47

Tgt Ion: 64 Resp: 55056

Ion Ratio Lower Upper

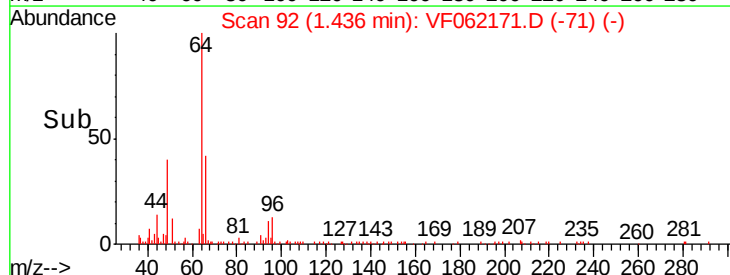
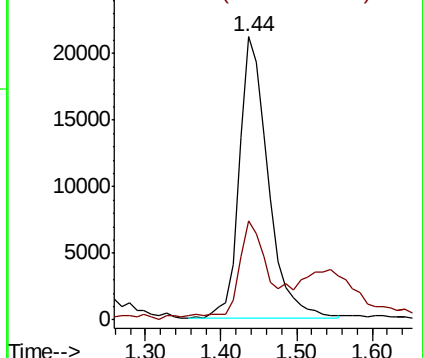
64 100

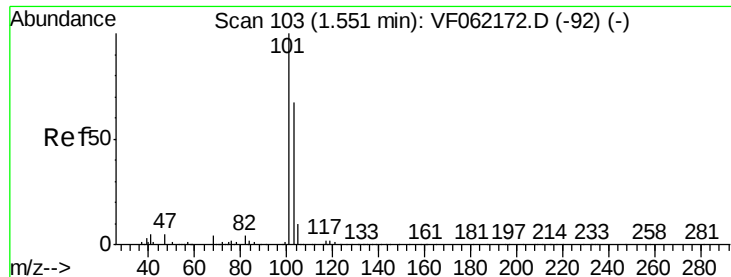
66 34.9 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



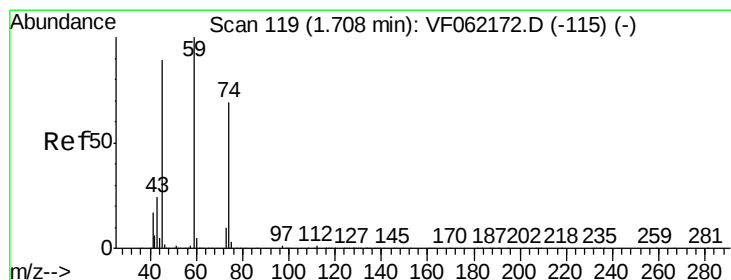
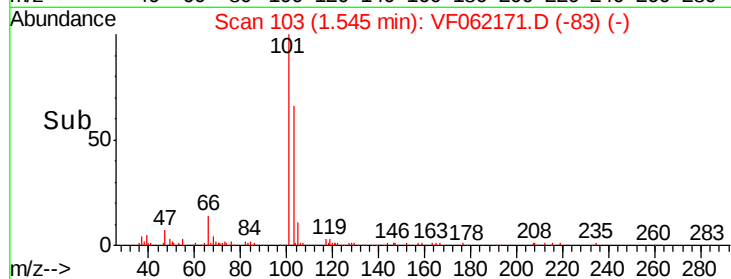
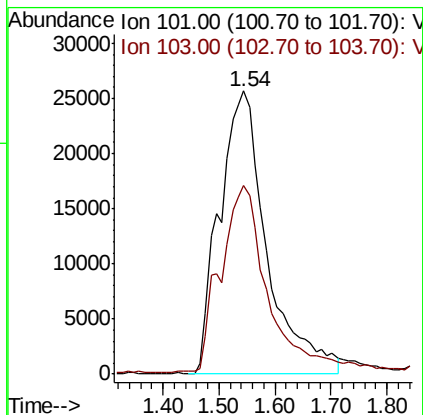
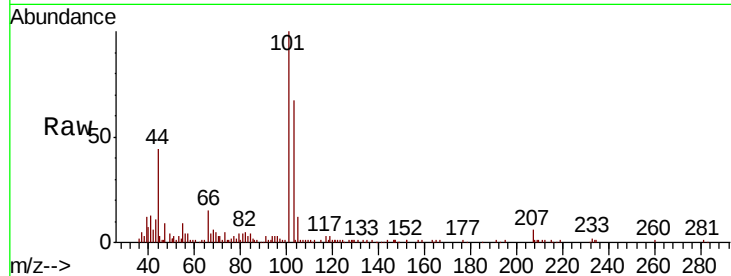


#7

Trichlorofluoromethane
Concen: 20.223 ug/l
RT: 1.54 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Instrument :
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VSTDIC020

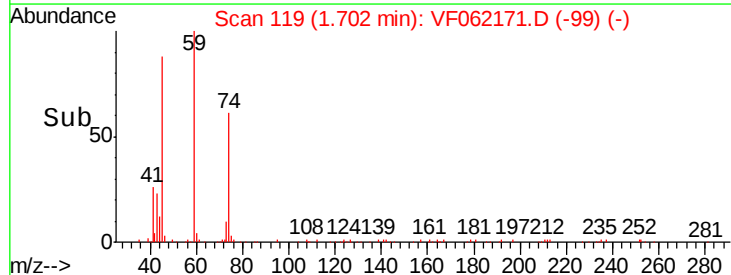
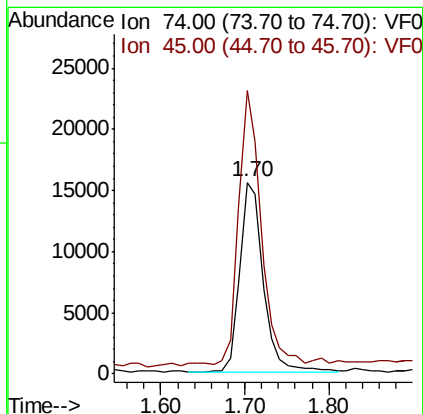
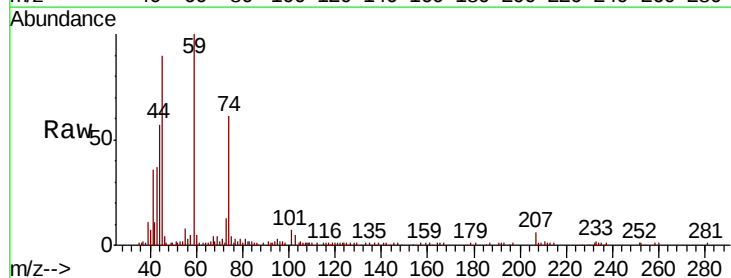
Tot Ion:101 Resp: 151183
Ion Ratio Lower Upper
101 100
103 66.5 53.7 80.5

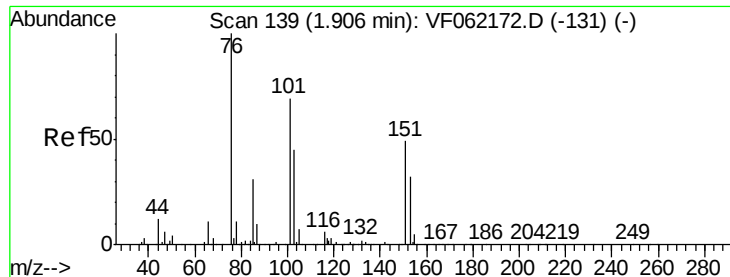


#8

Diethyl Ether
Concen: 20.097 ug/l
RT: 1.70 min Scan# 119
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 74 Resp: 30309
Ion Ratio Lower Upper
74 100
45 148.0 64.7 194.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.800 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

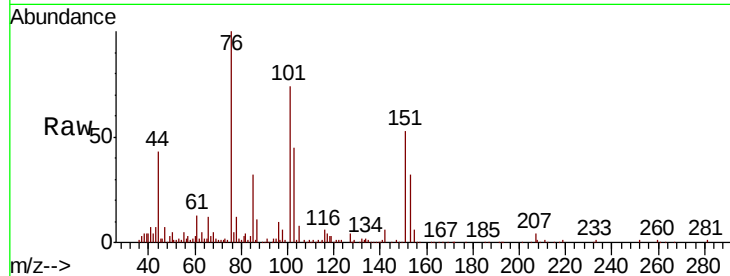
Tot Ion:101 Resp: 96887

Ion Ratio Lower Upper

101 100

85 43.6 35.2 52.8

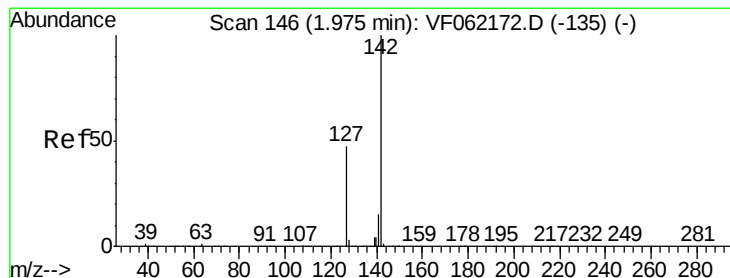
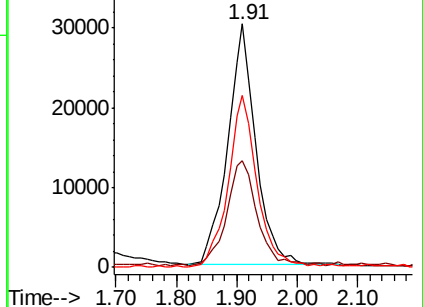
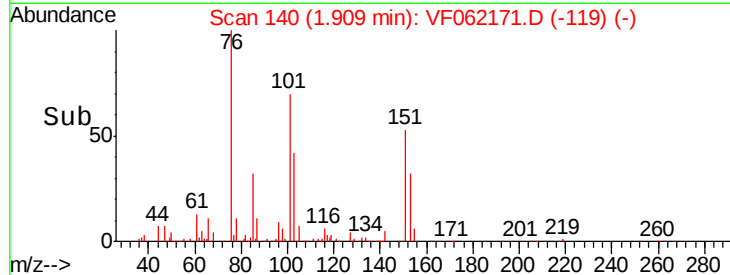
151 70.9 56.6 85.0



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: 19.701 ug/l

RT: 1.98 min Scan# 147

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

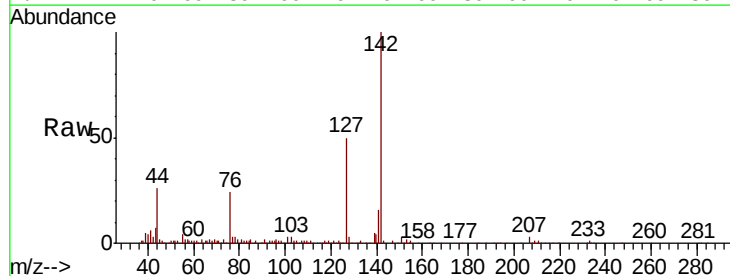
Tgt Ion:142 Resp: 179702

Ion Ratio Lower Upper

142 100

127 50.0 37.8 56.6

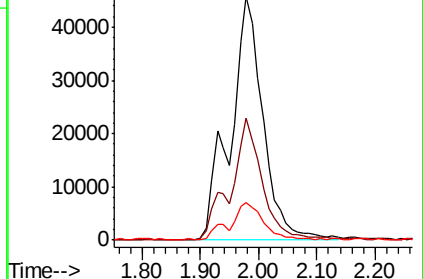
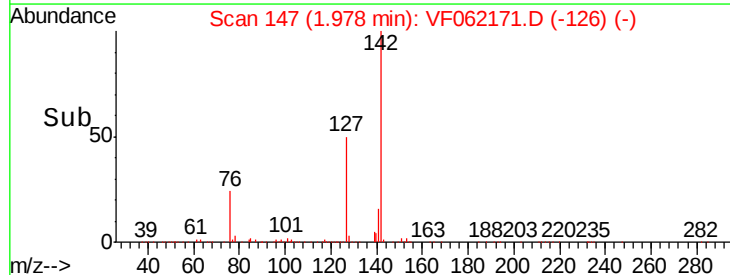
141 15.6 12.1 18.1

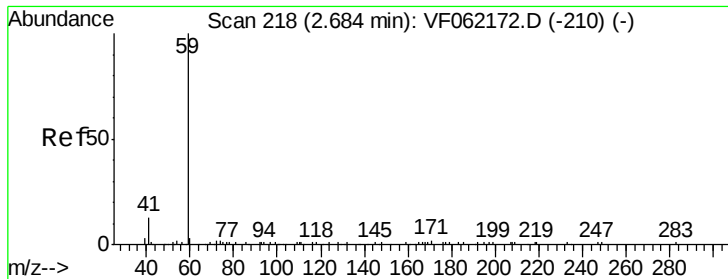


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



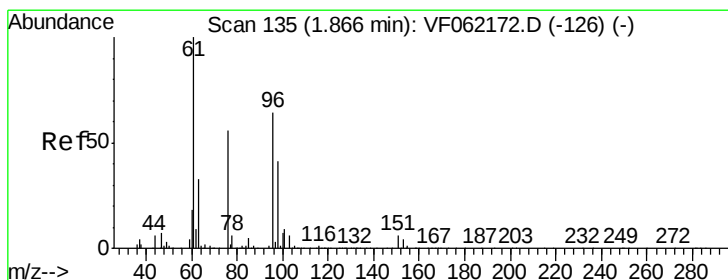
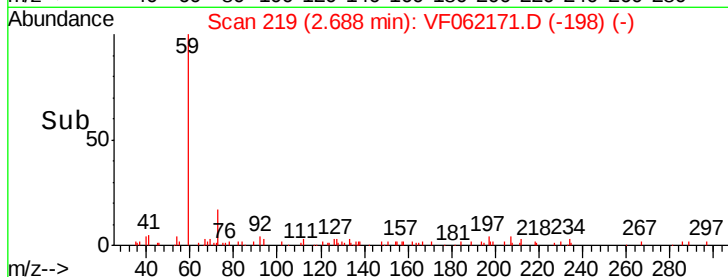
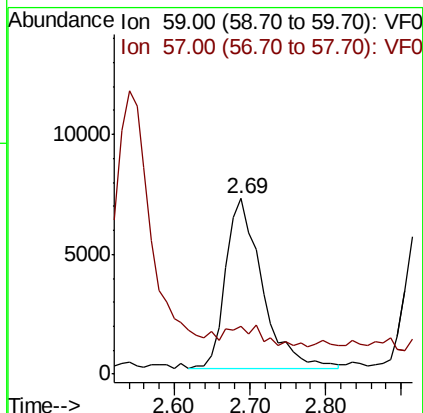
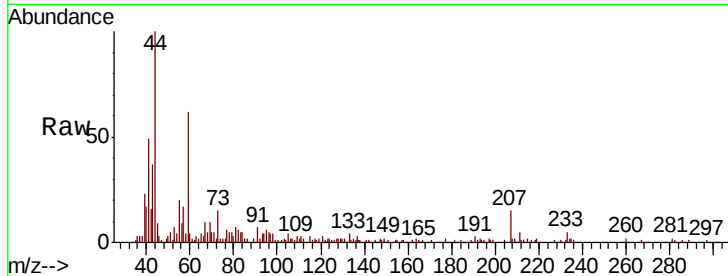


#11

Tert butyl alcohol
Concen: 105.723 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

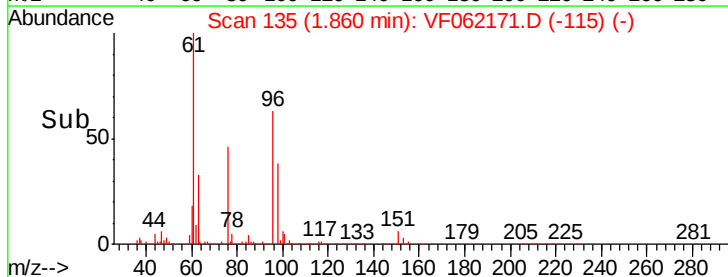
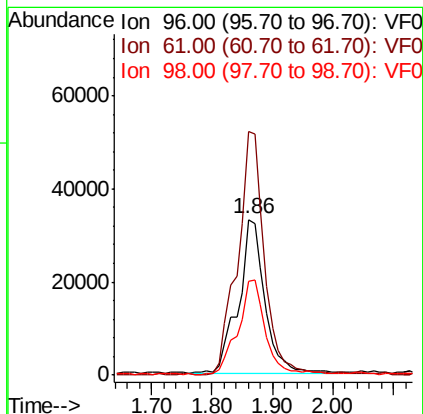
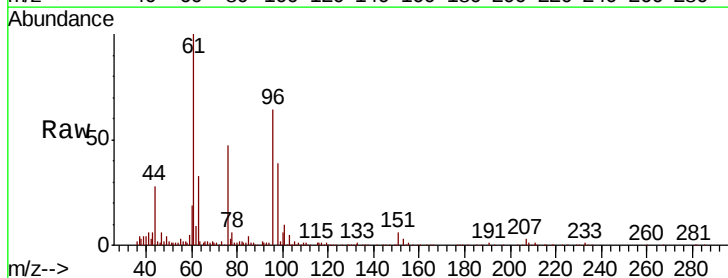
Tot Ion: 59 Resp: 23928
Ion Ratio Lower Upper
59 100
57 26.9 14.2 21.4#

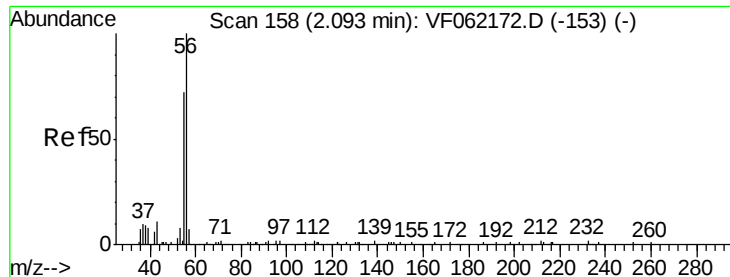


#12

1,1-Dichloroethene
Concen: 20.245 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 96 Resp: 100748
Ion Ratio Lower Upper
96 100
61 156.5 124.6 187.0
98 60.3 51.5 77.3





#13

Acrolein

Concen: 110.130 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

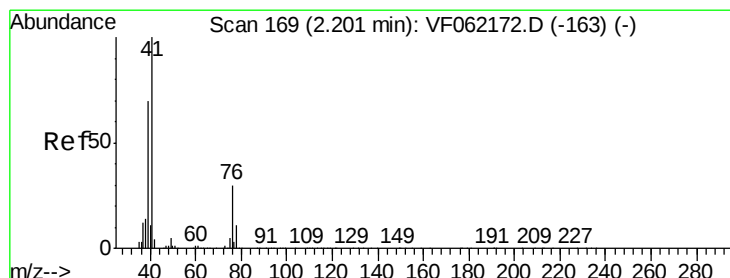
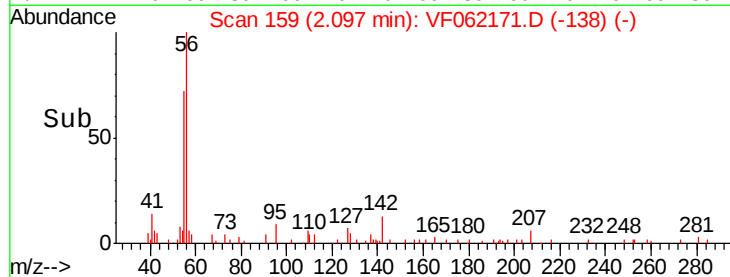
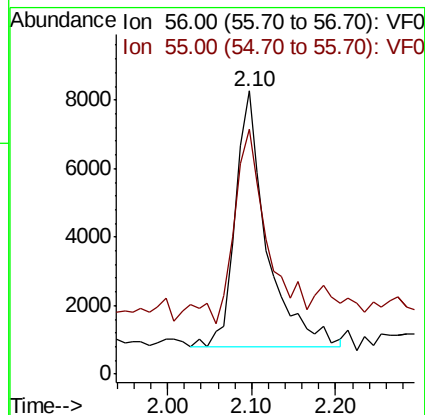
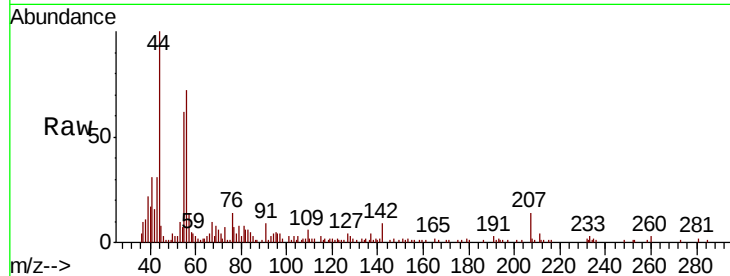
VSTDIC020

Tot Ion: 56 Resp: 19435

Ion Ratio Lower Upper

56 100

55 86.7 62.9 94.3



#14

Allyl chloride

Concen: 18.657 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

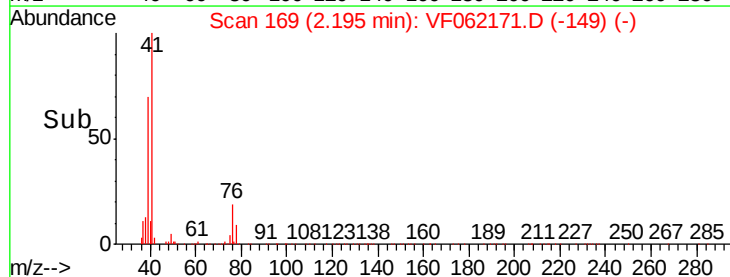
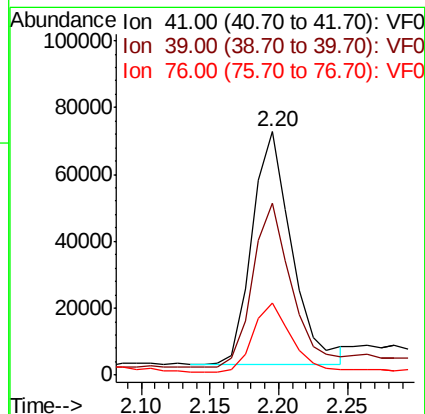
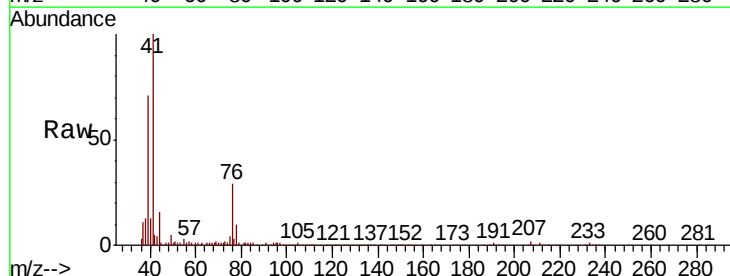
Tgt Ion: 41 Resp: 139799

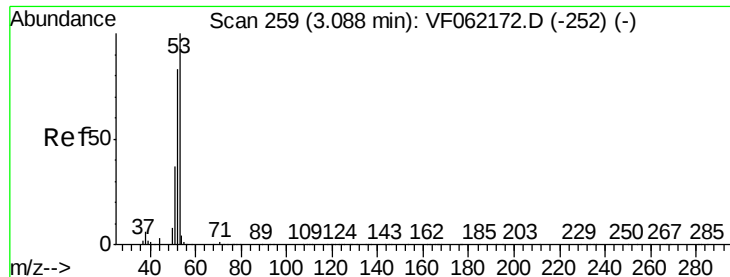
Ion Ratio Lower Upper

41 100

39 70.6 56.1 84.1

76 29.5 24.9 37.3





#15

Acrylonitrile

Concen: 107.764 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

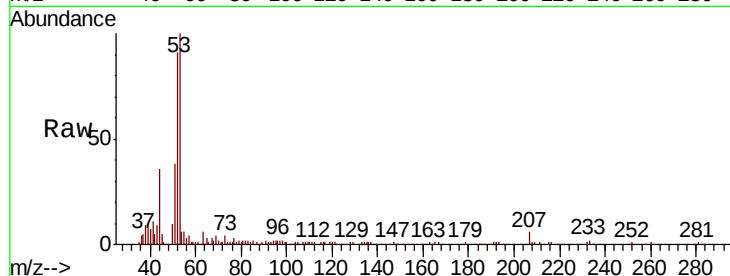
Tot Ion: 53 Resp: 89807

Ion Ratio Lower Upper

53 100

52 90.7 66.6 99.8

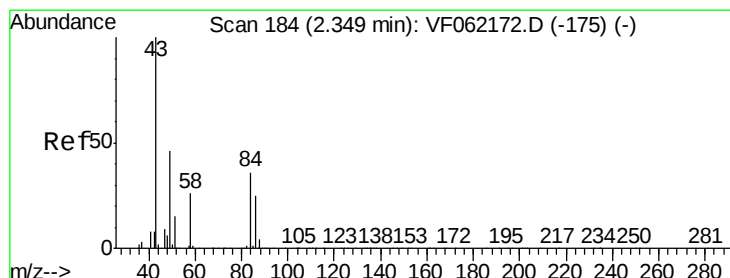
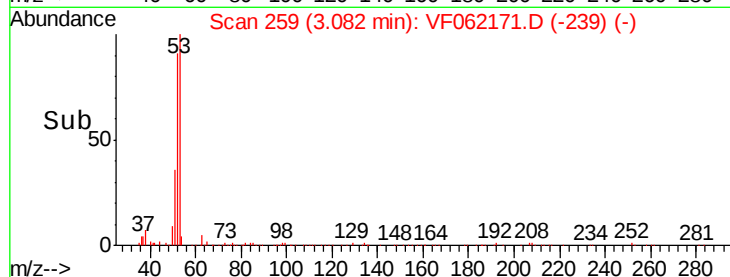
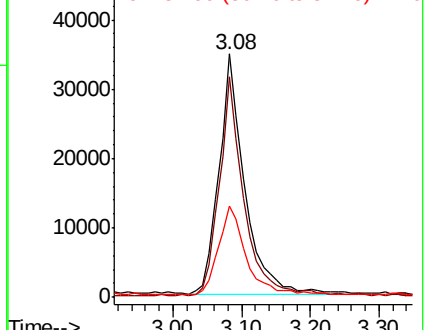
51 37.6 30.1 45.1



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: 87.246 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062171.D

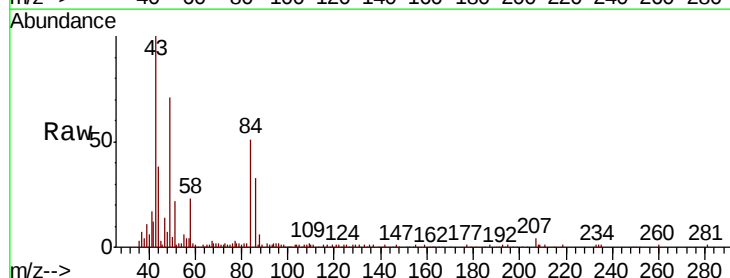
Acq: 16 Apr 2019 11:47

Tgt Ion: 43 Resp: 80317

Ion Ratio Lower Upper

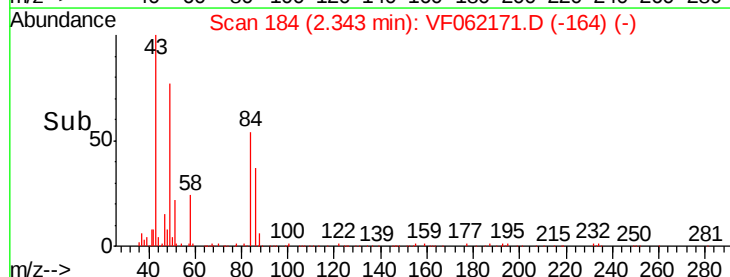
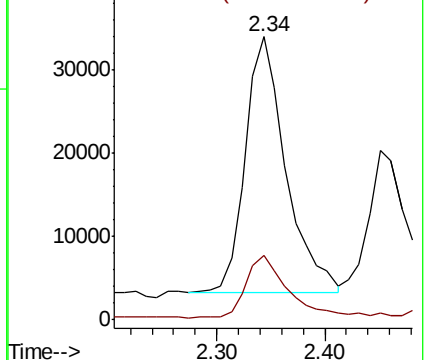
43 100

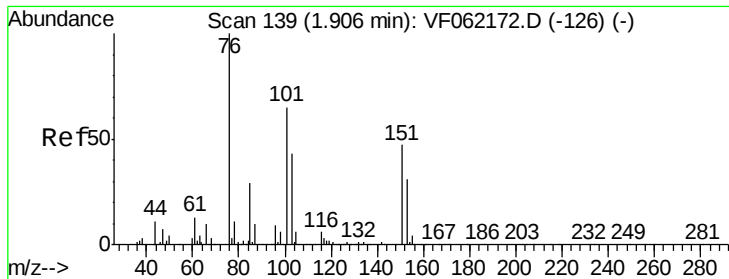
58 22.7 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 19.488 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

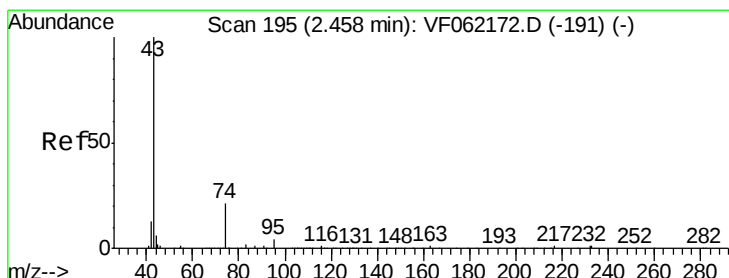
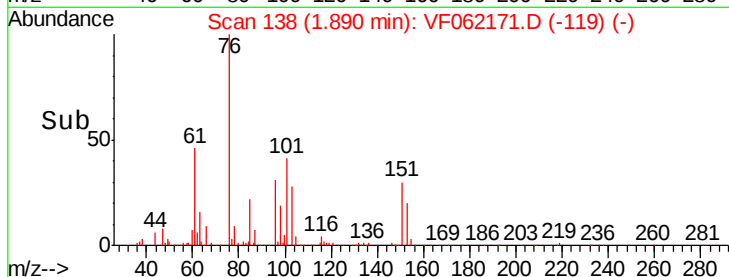
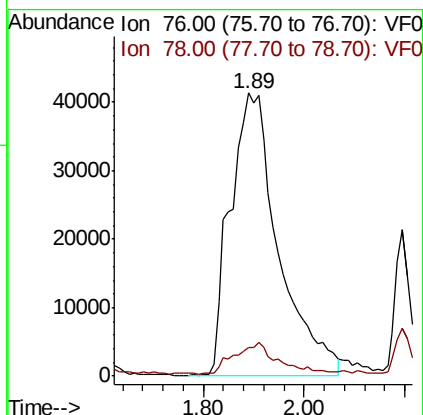
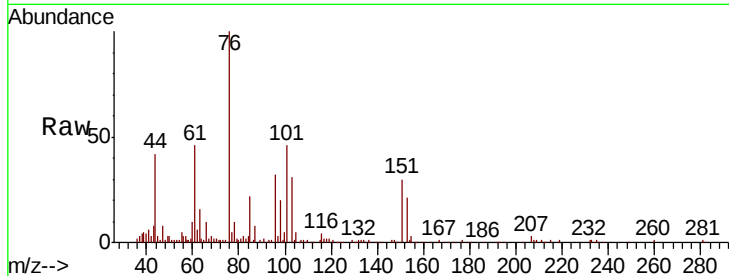
VSTDIC020

Tot Ion: 76 Resp: 275810

Ion Ratio Lower Upper

76 100

78 9.9 9.1 13.7



#18

Methyl Acetate

Concen: 18.625 ug/l

RT: 2.45 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF062171.D

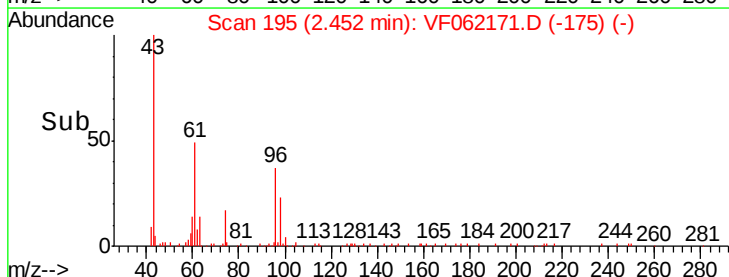
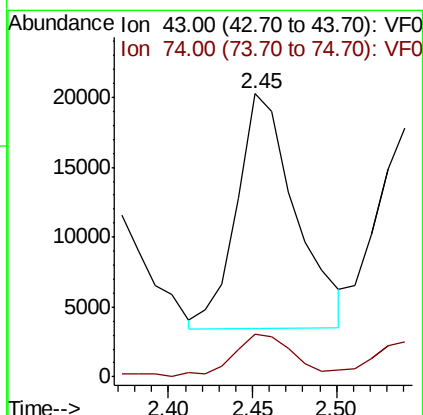
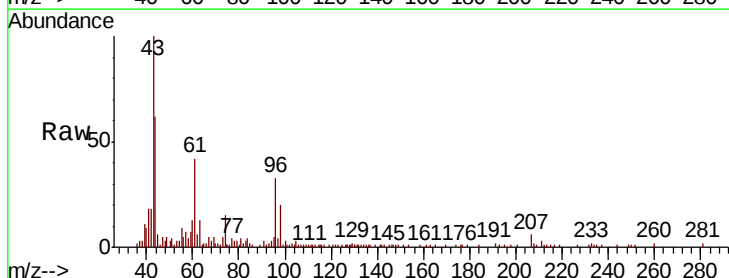
Acq: 16 Apr 2019 11:47

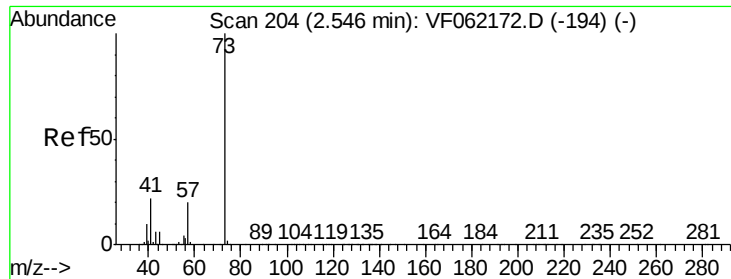
Tgt Ion: 43 Resp: 40681

Ion Ratio Lower Upper

43 100

74 15.3 14.2 21.4



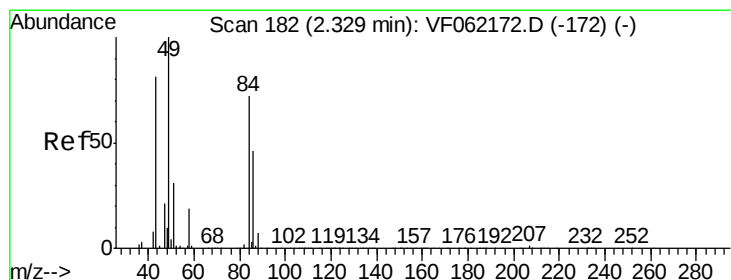
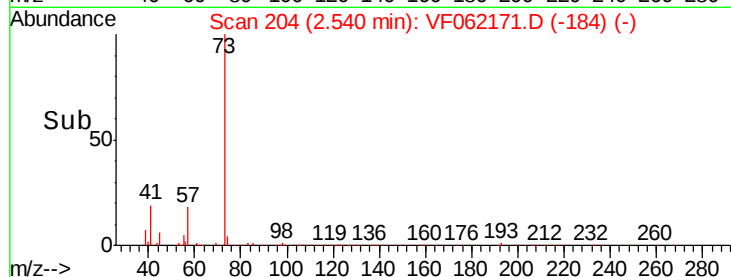
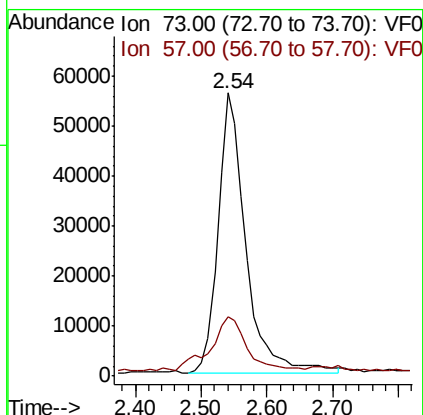
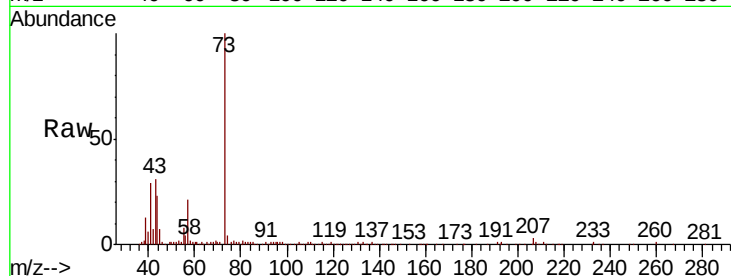


#19

Methyl tert-butyl Ether
 Concen: 19.699 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

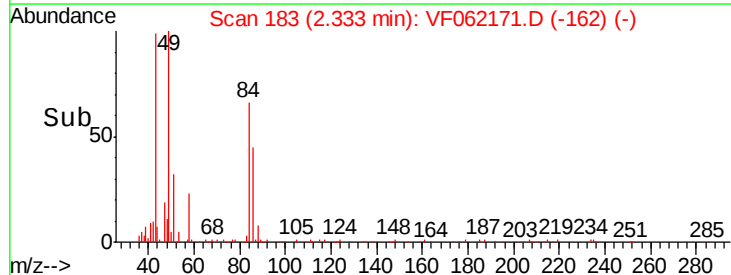
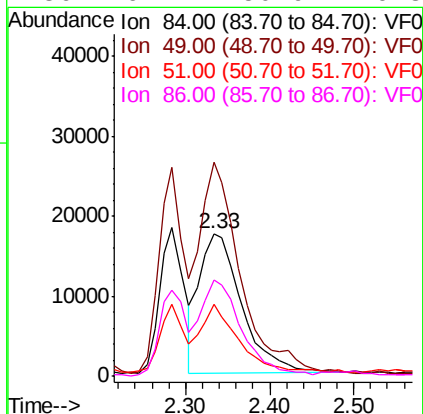
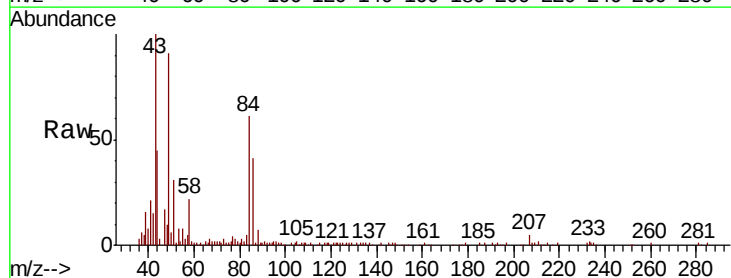
Tot Ion: 73 Resp: 163061
 Ion Ratio Lower Upper
 73 100
 57 20.9 16.8 25.2

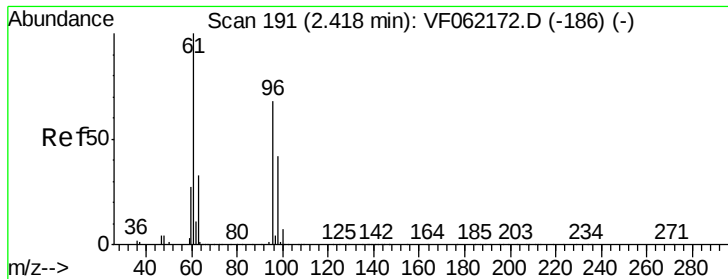


#20

Methylene Chloride
 Concen: 11.476 ug/l
 RT: 2.33 min Scan# 183
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion: 84 Resp: 60531
 Ion Ratio Lower Upper
 84 100
 49 150.2 111.5 167.3
 51 50.6 34.9 52.3
 86 67.1 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 19.634 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

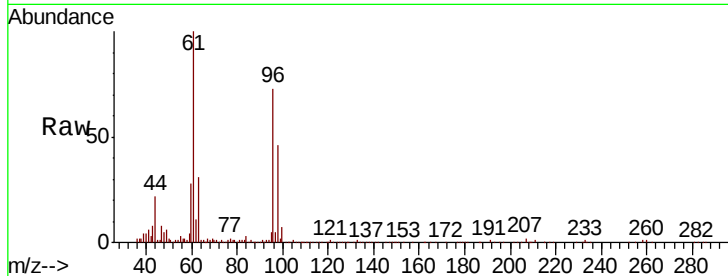
Tot Ion: 96 Resp: 93483

Ion Ratio Lower Upper

96 100

61 137.8 117.4 176.2

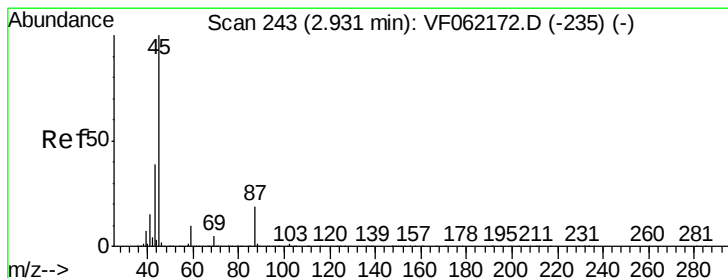
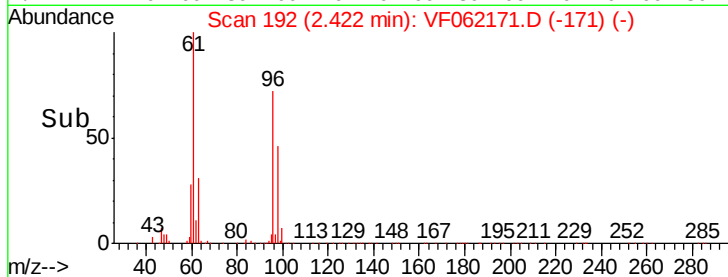
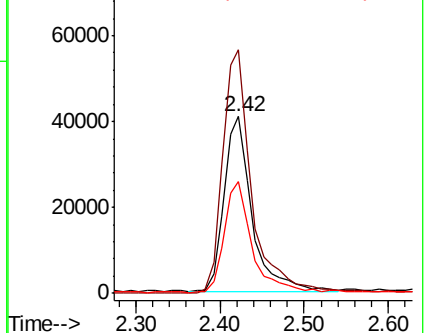
98 63.0 49.8 74.8



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 19.539 ug/l

RT: 2.93 min Scan# 244

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Tgt Ion: 45 Resp: 272156

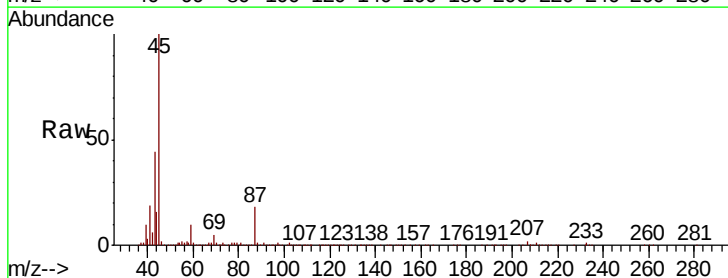
Ion Ratio Lower Upper

45 100

43 44.1 32.5 48.7

87 17.8 14.9 22.3

59 10.0 7.8 11.8

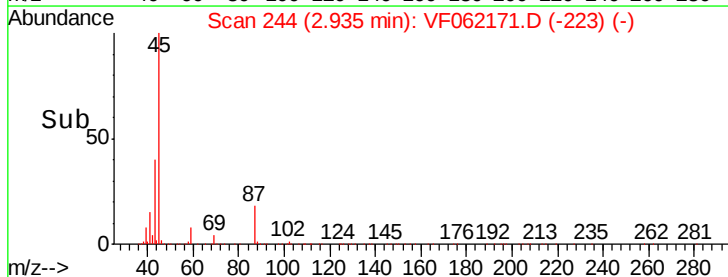
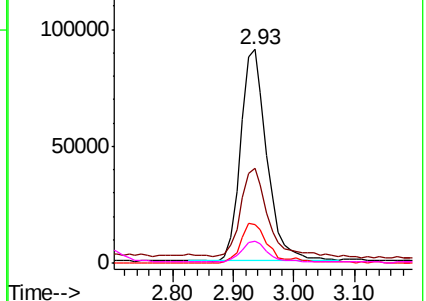


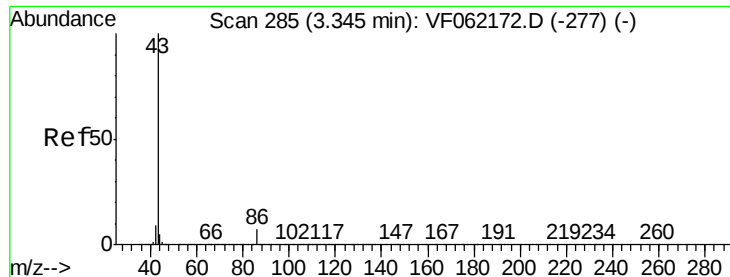
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 105.452 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

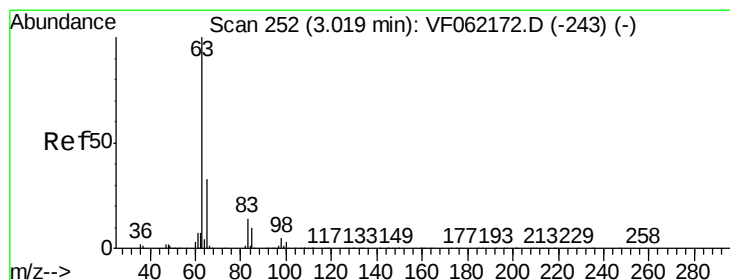
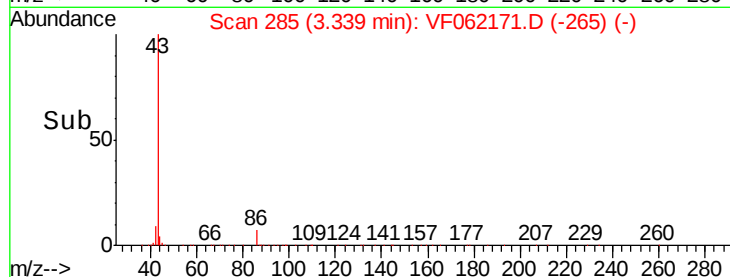
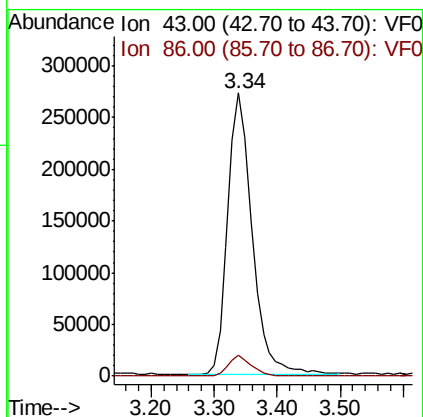
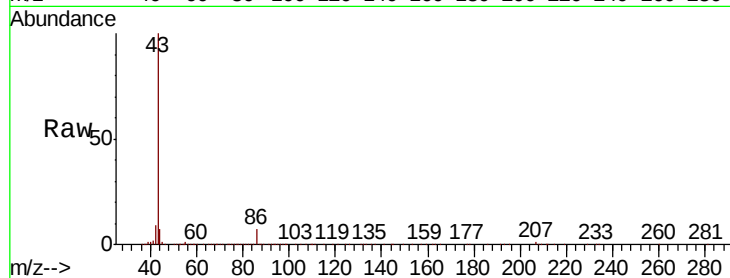
VSTDIC020

Tot Ion: 43 Resp: 732662

Ion Ratio Lower Upper

43 100

86 7.5 5.9 8.9



#24

1,1-Dichloroethane

Concen: 20.032 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.02 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

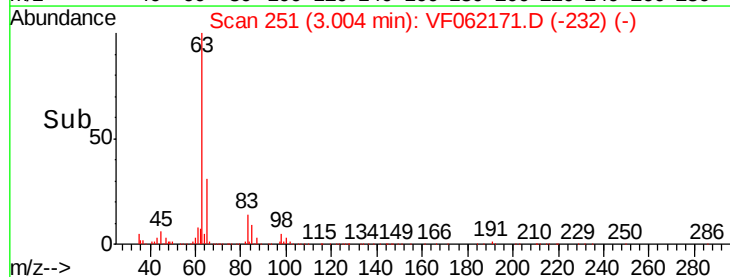
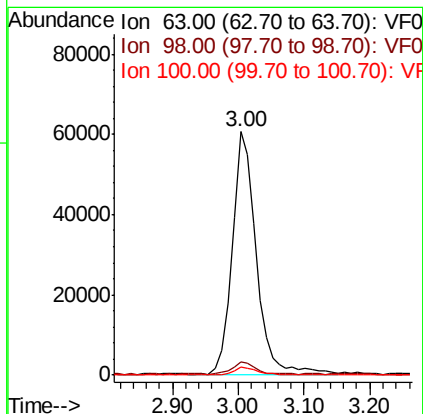
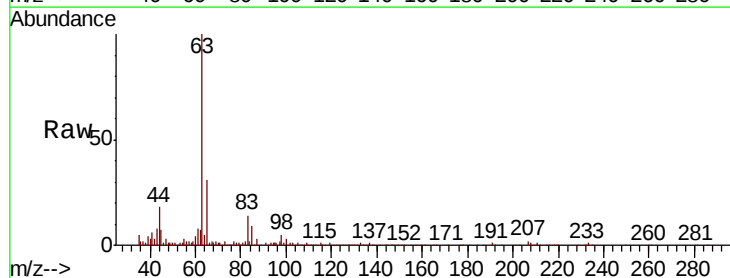
Tgt Ion: 63 Resp: 155372

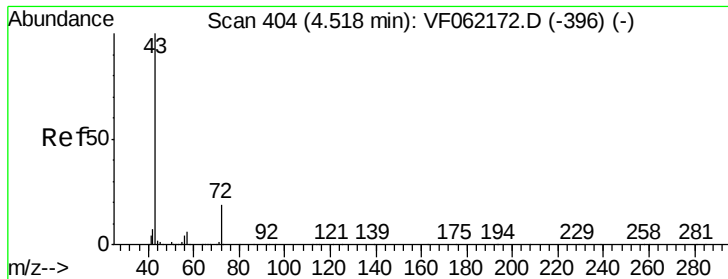
Ion Ratio Lower Upper

63 100

98 5.4 2.6 8.0

100 3.4 1.7 5.1





#25

2-Butanone

Concen: 100.572 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

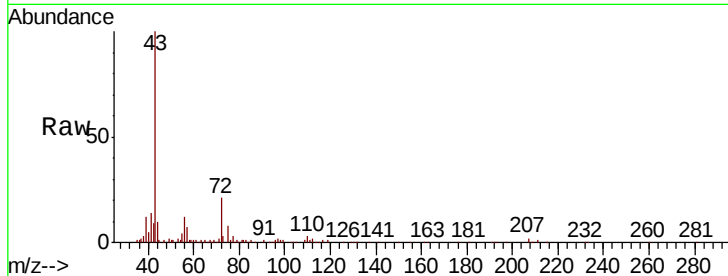
VSTDIC020

Tot Ion: 43 Resp: 198947

Ion Ratio Lower Upper

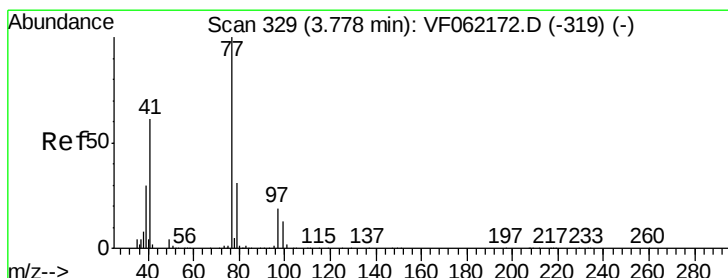
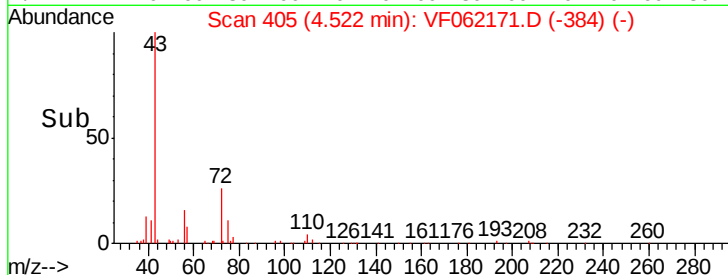
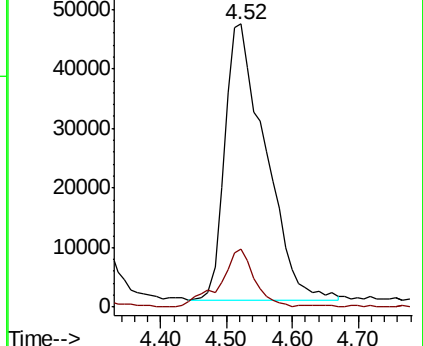
43 100

72 20.6 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 20.788 ug/l

RT: 3.77 min Scan# 329

Delta R.T. -0.01 min

Lab File: VF062171.D

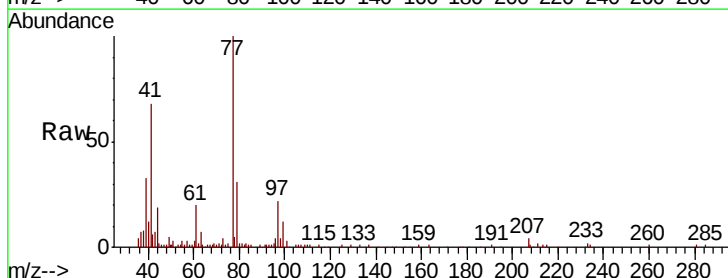
Acq: 16 Apr 2019 11:47

Tgt Ion: 77 Resp: 84810

Ion Ratio Lower Upper

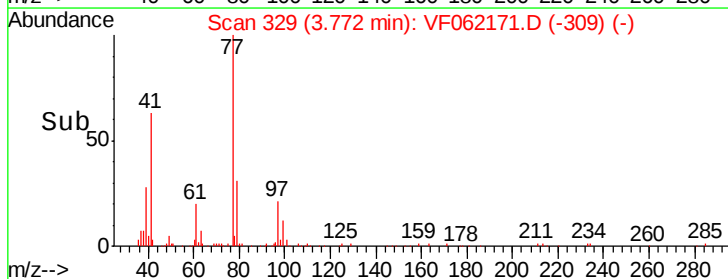
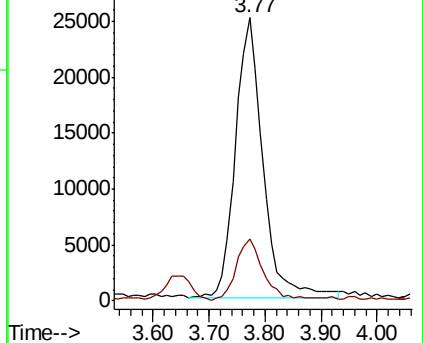
77 100

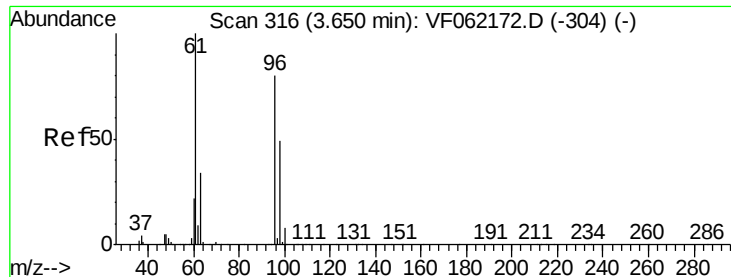
97 21.7 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



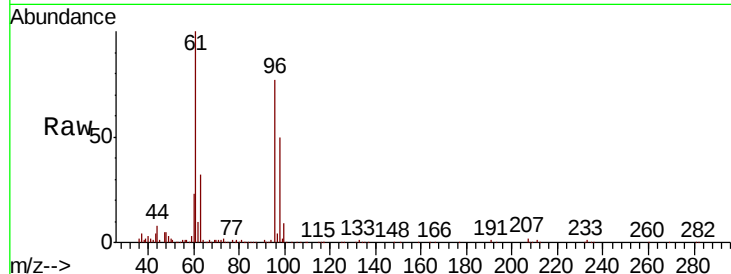


#27

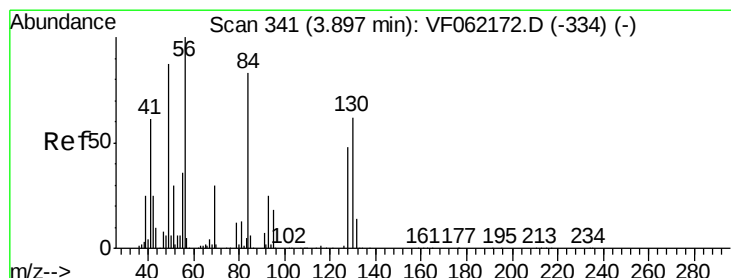
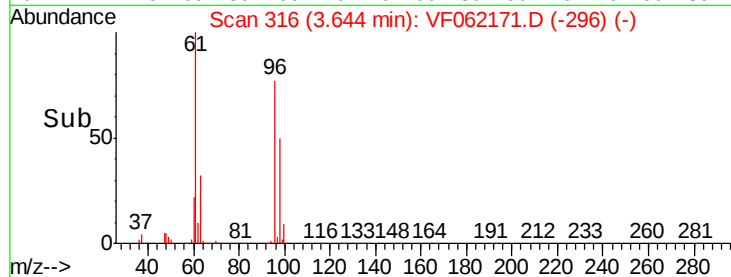
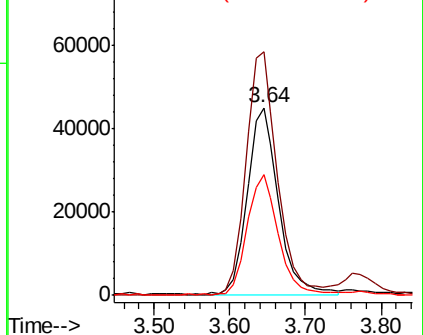
cis-1,2-Dichloroethene
Concen: 20.220 ug/l
RT: 3.64 min Scan# 316
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.6	0.0	248.2
98	64.2	0.0	122.4



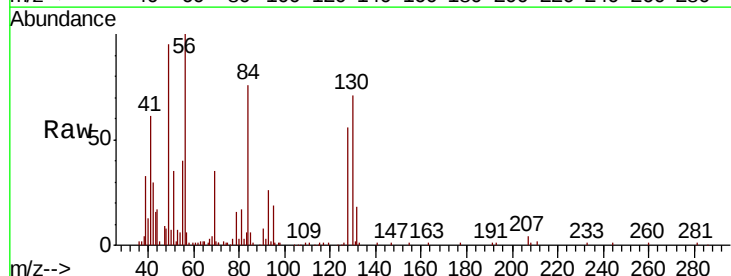
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



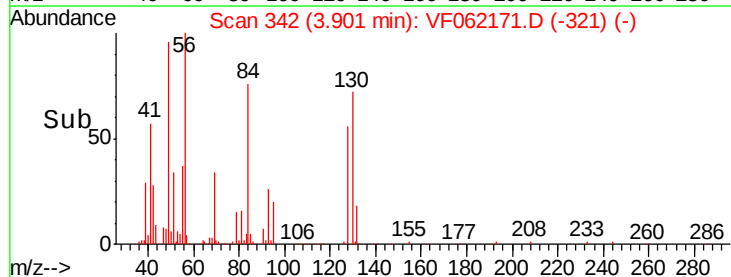
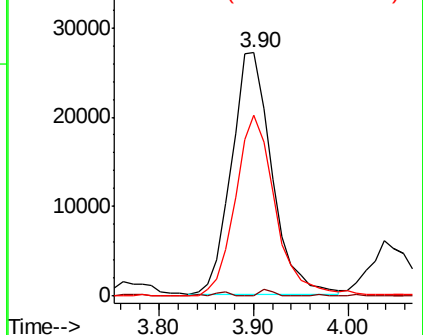
#28

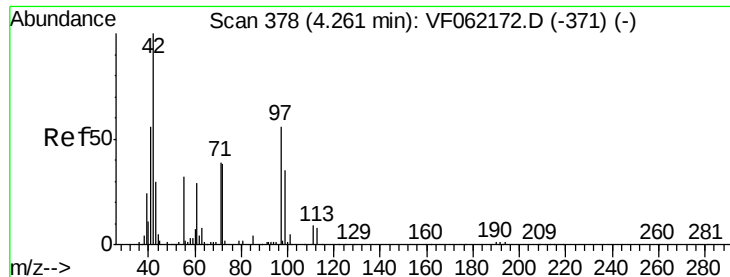
Bromochloromethane
Concen: 21.650 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	74.4	56.5	84.7



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

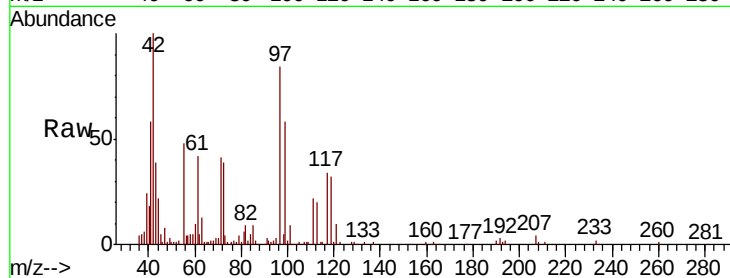




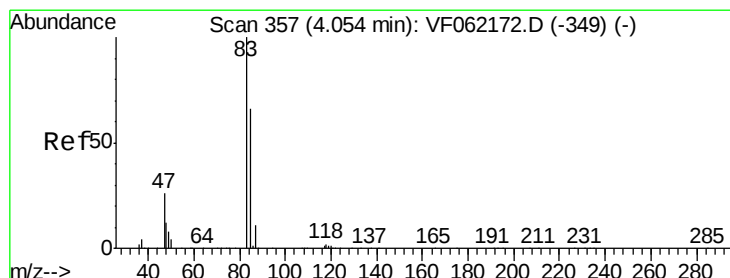
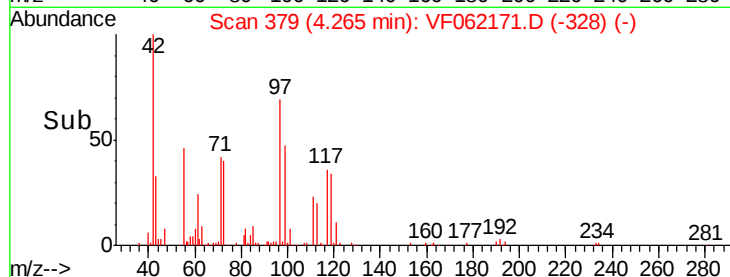
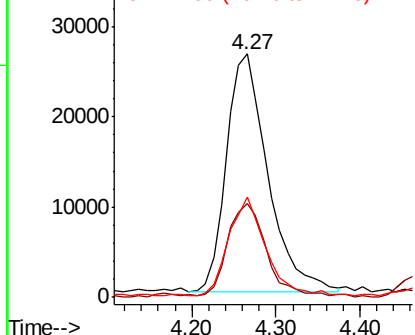
#29
Tetrahydrofuran
Concen: 101.752 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 42 Resp: 89500
Ion Ratio Lower Upper
42 100
72 37.0 28.7 43.1
71 37.9 30.8 46.2

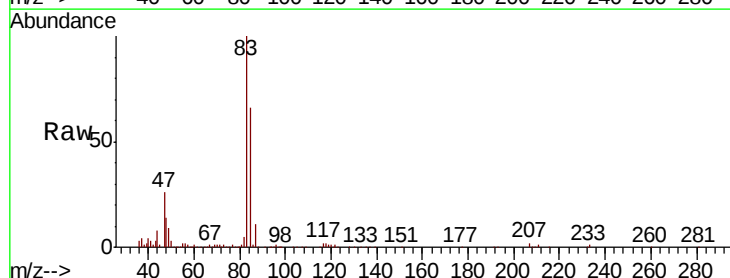


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

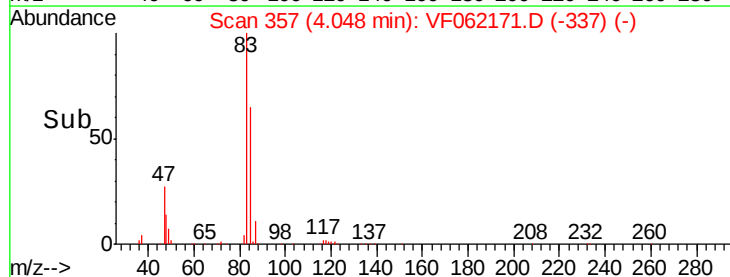
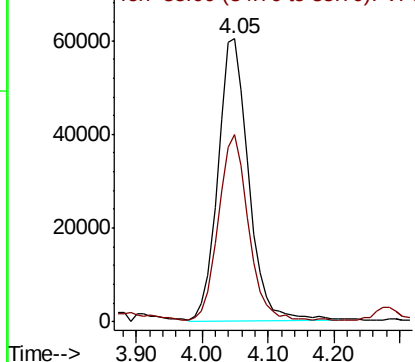


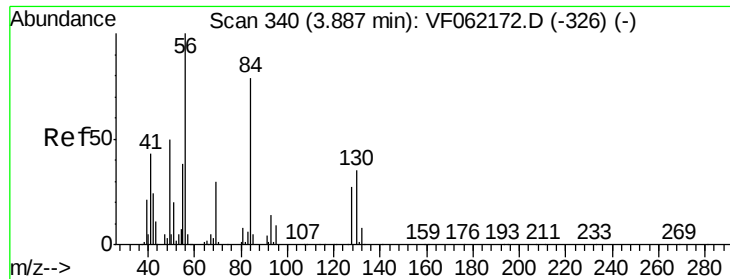
#30
Chloroform
Concen: 20.193 ug/l
RT: 4.05 min Scan# 357
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 83 Resp: 194721
Ion Ratio Lower Upper
83 100
85 66.2 53.5 80.3



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

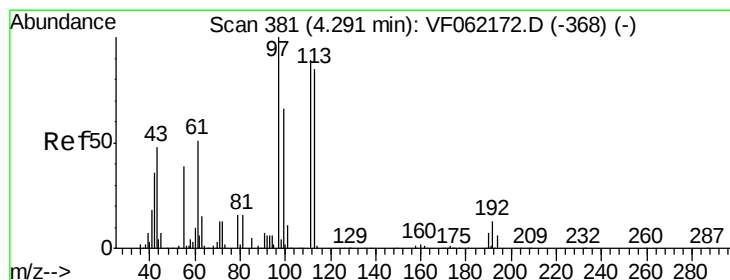
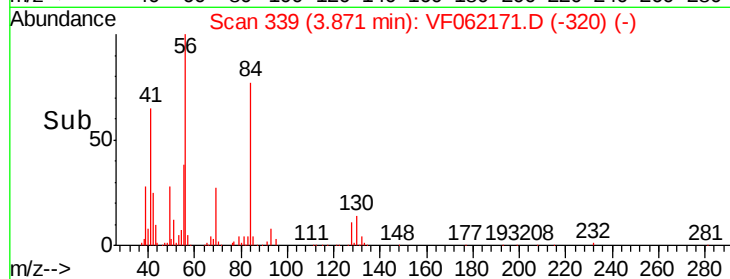
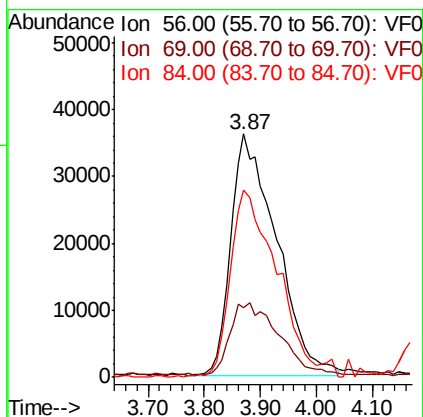
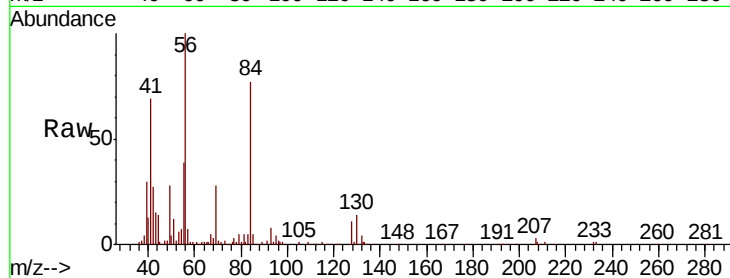




#31
Cyclohexane
Concen: 20.300 ug/l
RT: 3.87 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

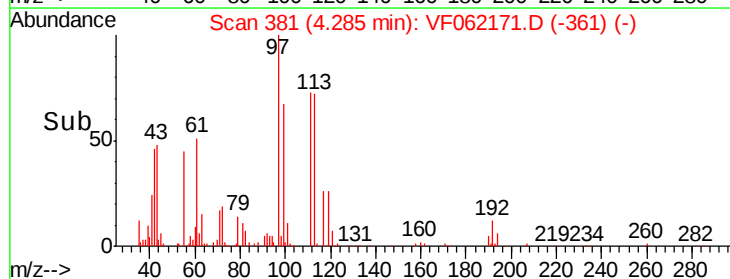
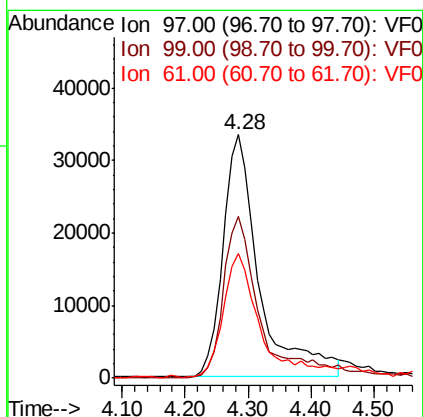
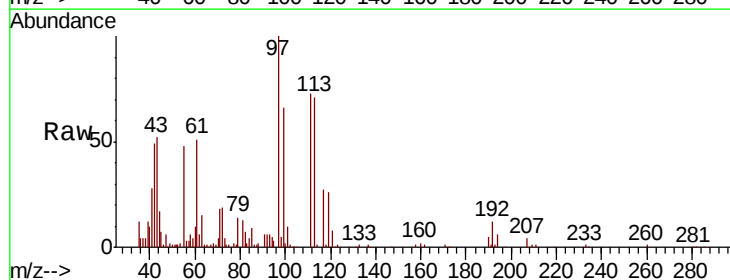
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

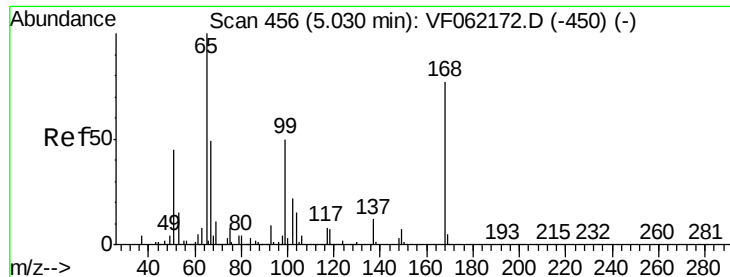
Tot Ion:	56	Resp:	203260
Ion	Ratio	Lower	Upper
56	100		
69	28.5	24.4	36.6
84	76.7	63.4	95.2



#32
1,1,1-Trichloroethane
Concen: 20.268 ug/l
RT: 4.28 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion:	97	Resp:	133276
Ion	Ratio	Lower	Upper
97	100		
99	66.4	52.3	78.5
61	51.0	40.9	61.3





#33

1,2-Dichloroethane-d4

Concen: 19.071 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

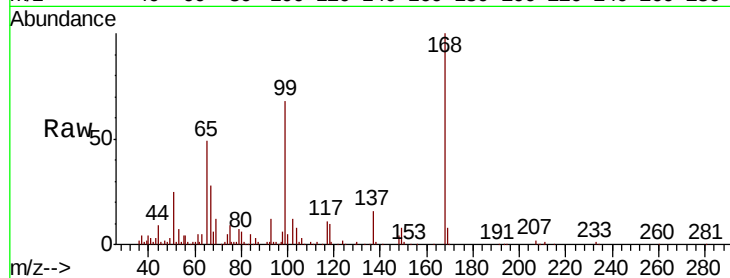
VSTDIC020

Tot Ion: 65 Resp: 77864

Ion Ratio Lower Upper

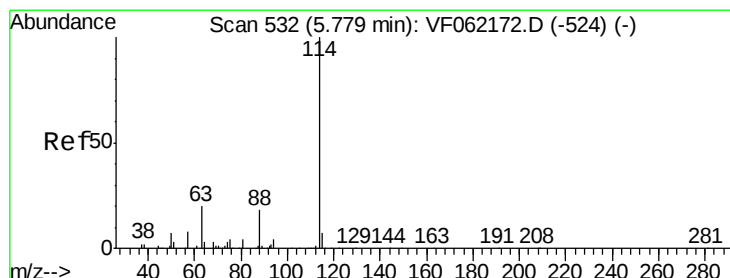
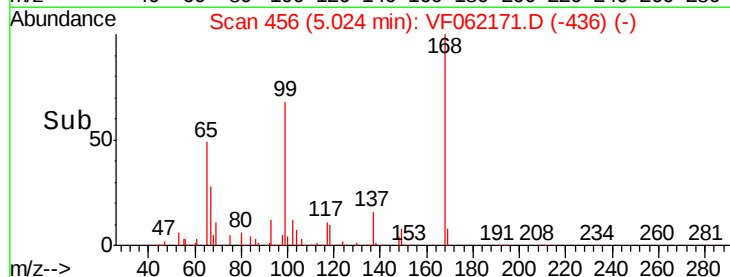
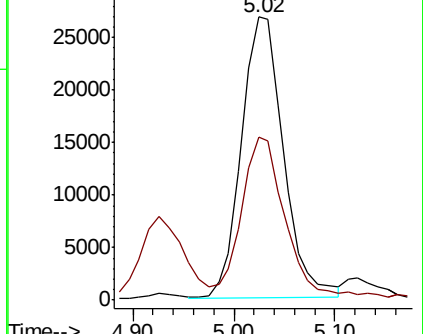
65 100

67 57.5 0.0 107.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

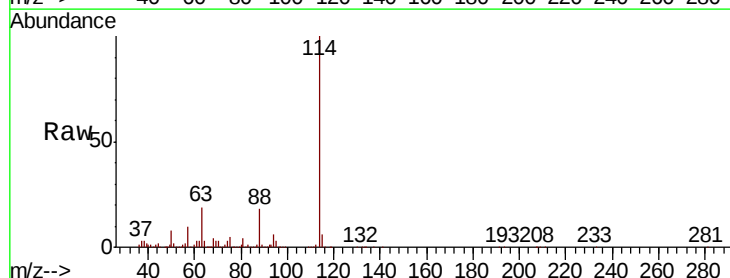
Tgt Ion: 114 Resp: 682935

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

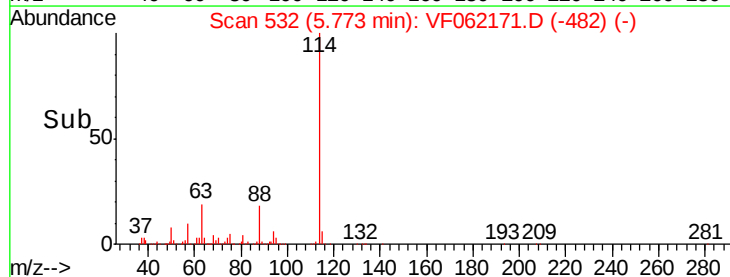
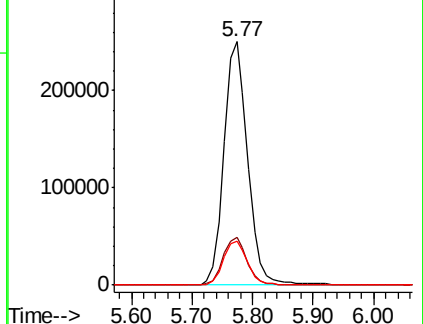
88 18.1 0.0 36.6

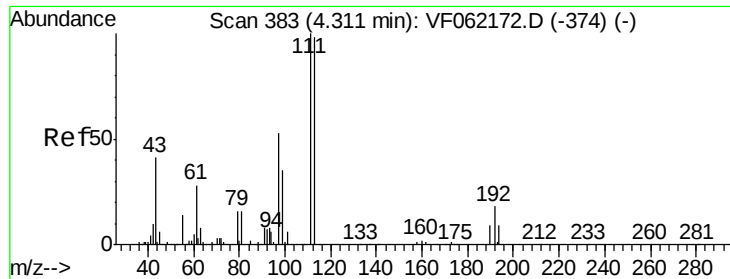


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 20.318 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

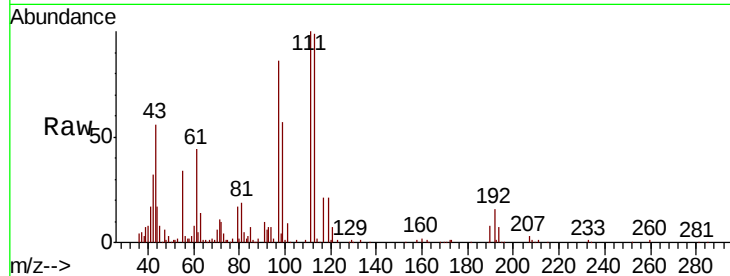
Tot Ion:113 Resp: 109459

Ion Ratio Lower Upper

113 100

111 101.3 81.6 122.4

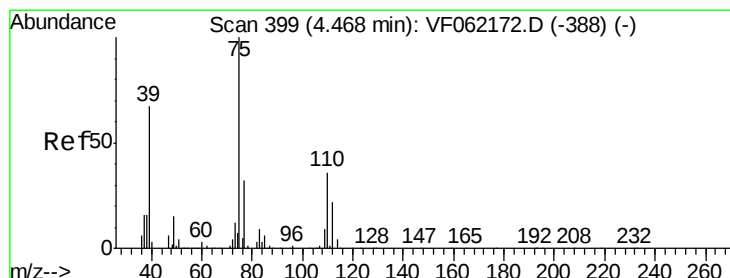
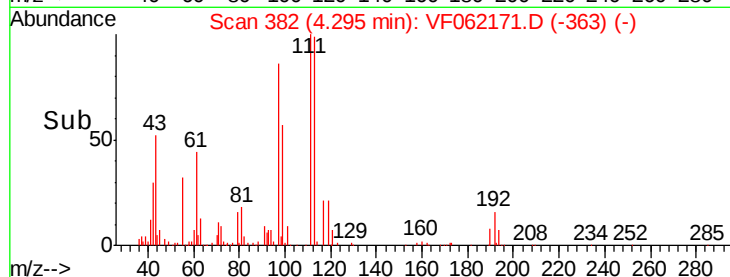
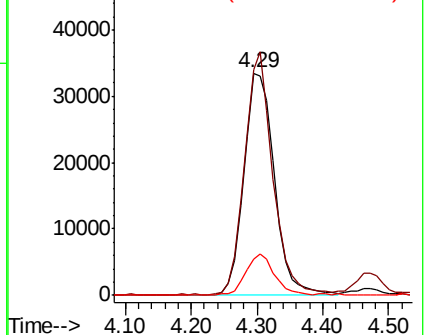
192 16.4 15.0 22.4



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.898 ug/l

RT: 4.47 min Scan# 400

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

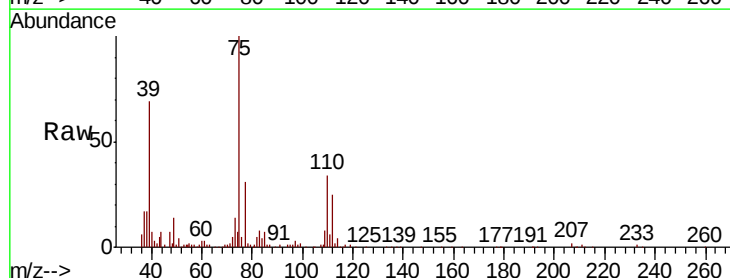
Tgt Ion: 75 Resp: 158569

Ion Ratio Lower Upper

75 100

110 34.0 17.9 53.8

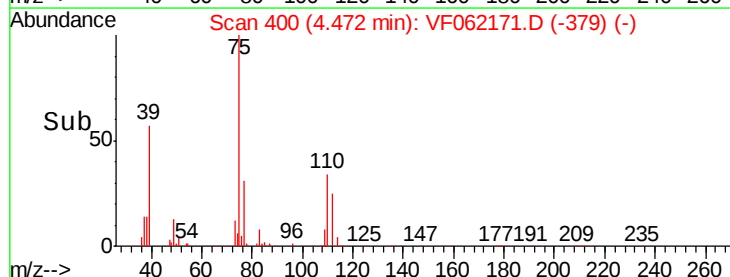
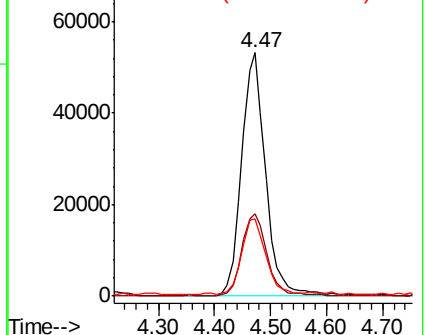
77 31.5 25.6 38.4

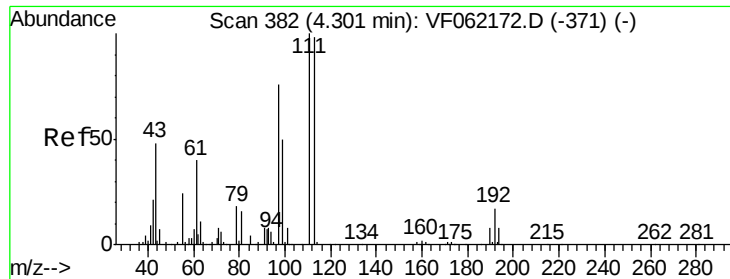


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

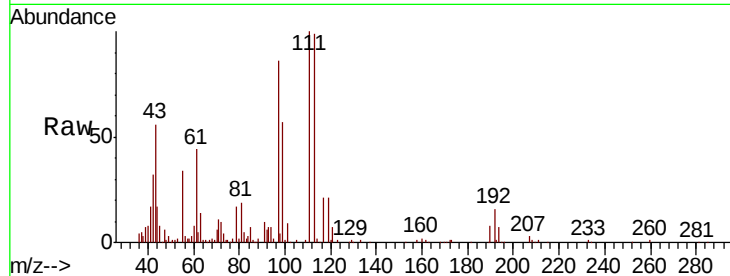




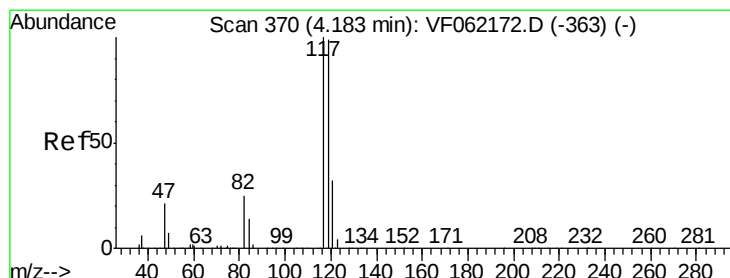
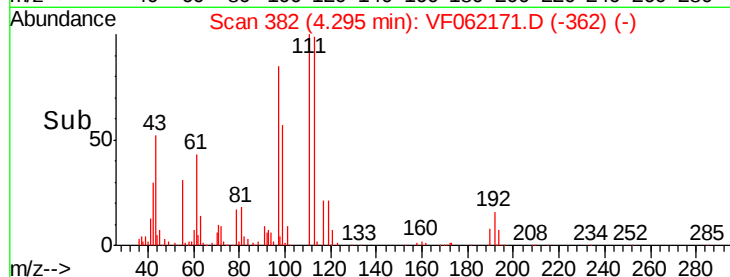
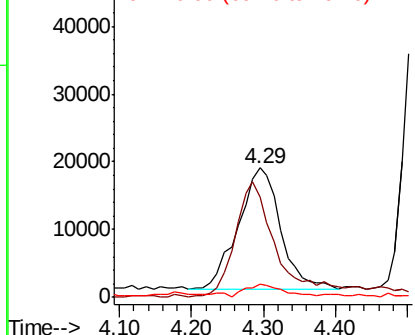
#37
Ethyl Acetate
Concen: 21.254 ug/l
RT: 4.29 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 74310
Ion Ratio Lower Upper
43 100
61 77.8 64.9 97.3
70 10.2 7.8 11.8

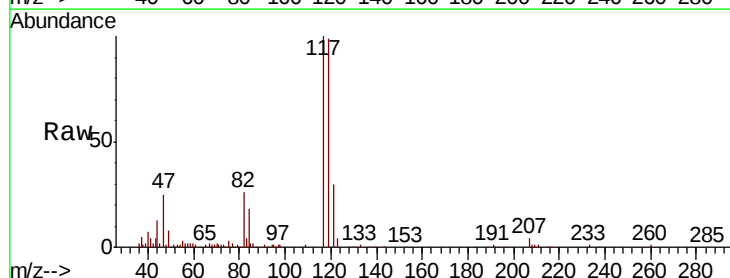


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

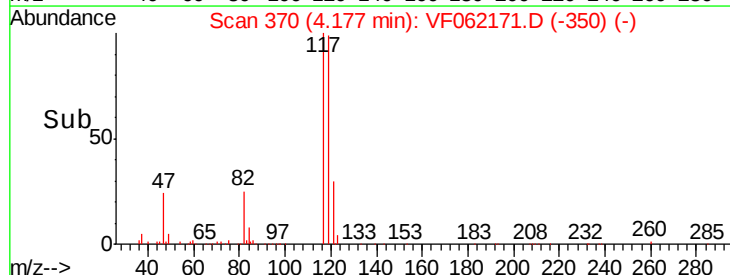
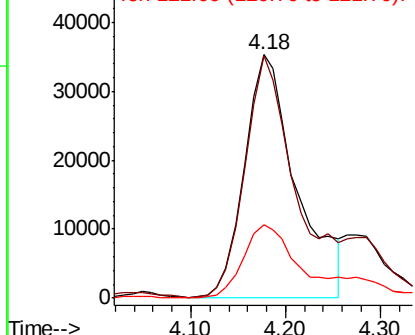


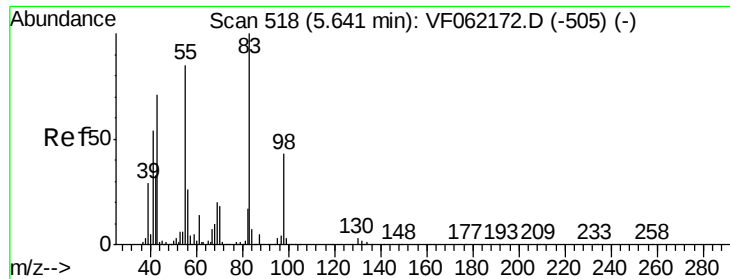
#38
Carbon Tetrachloride
Concen: 20.187 ug/l
RT: 4.18 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 117 Resp: 133970
Ion Ratio Lower Upper
117 100
119 99.4 78.9 118.3
121 30.2 25.3 37.9



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

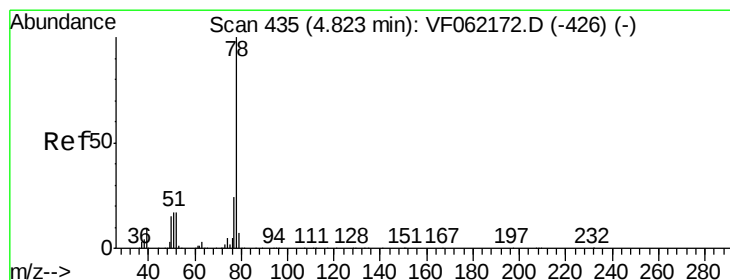
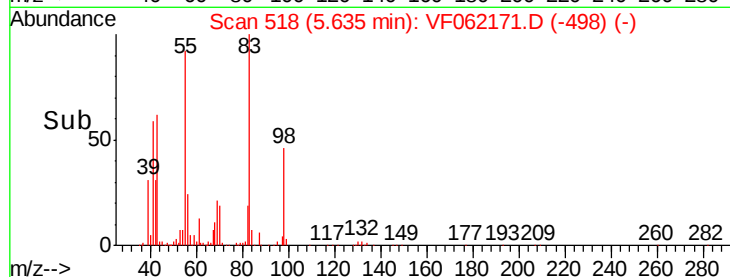
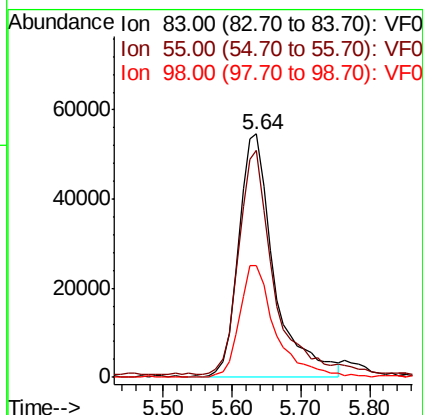
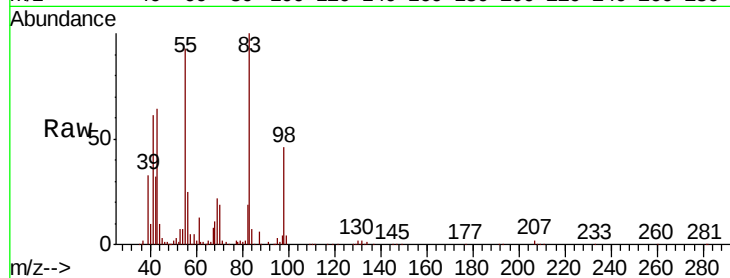




#39
Methvlcvclohexane
Concen: 20.396 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

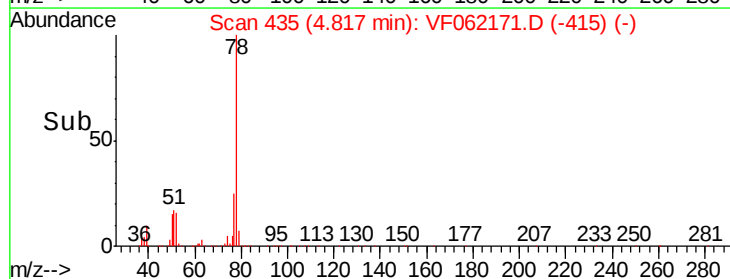
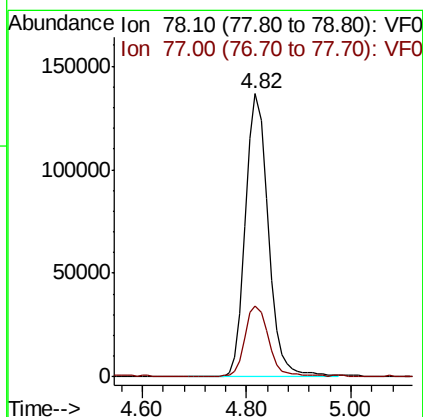
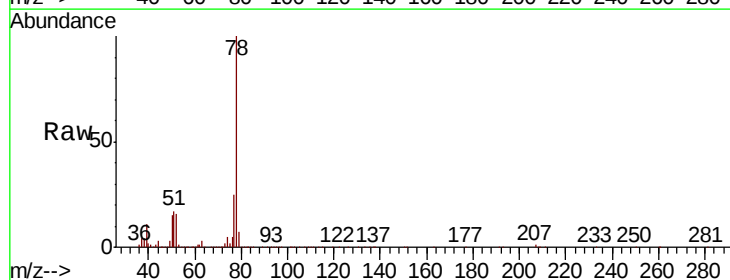
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

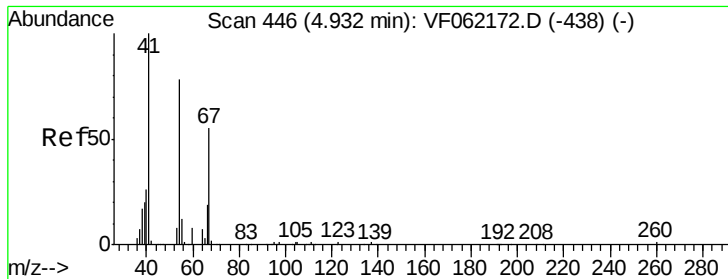
Tot Ion	Ratio	Lower	Upper
83	100		
55	93.2	68.2	102.2
98	46.0	34.4	51.6



#40
Benzene
Concen: 20.018 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.1	28.7

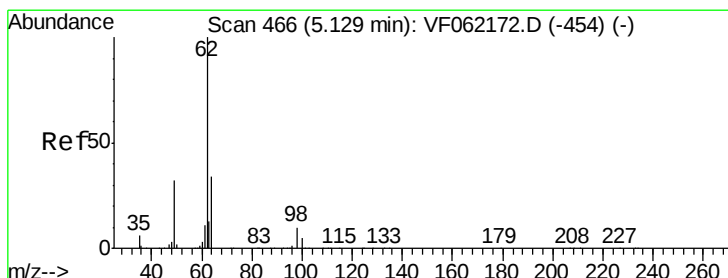
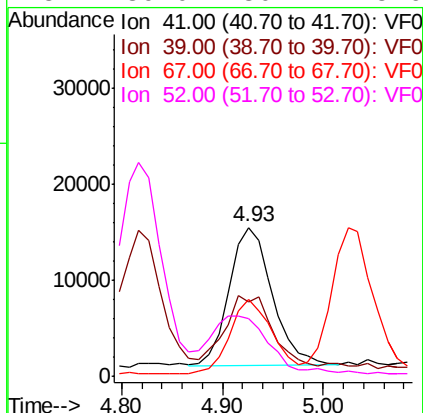
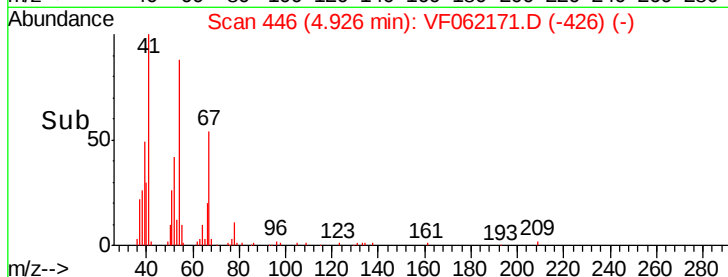
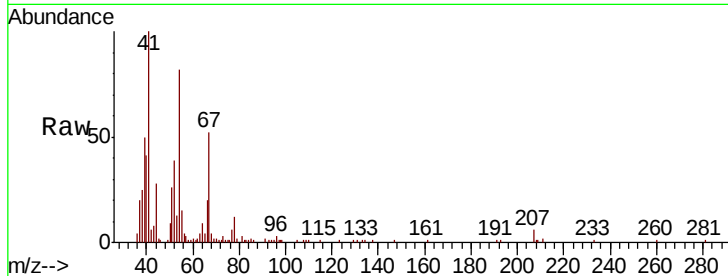




#41
Methacrylonitrile
Concen: 20.311 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

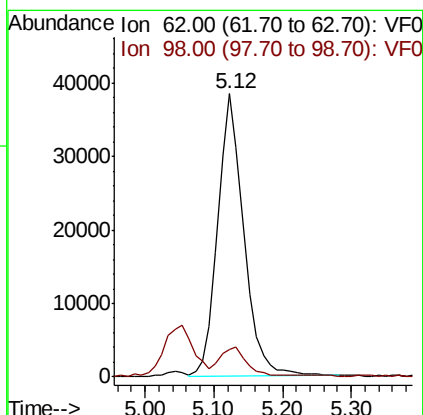
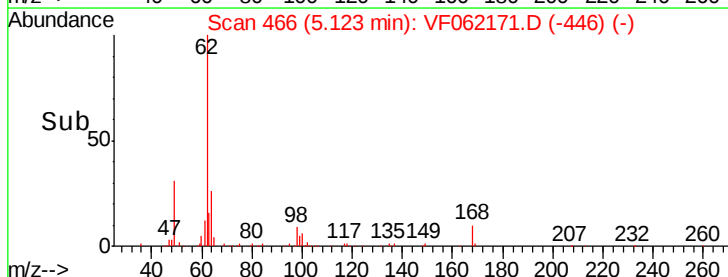
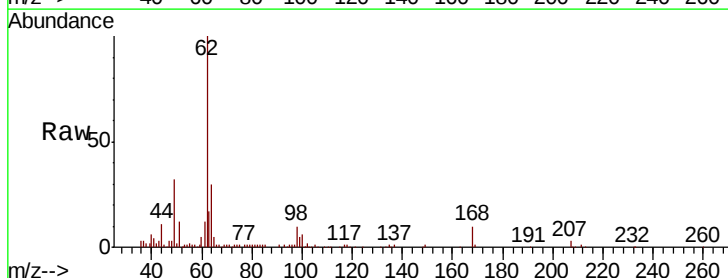
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

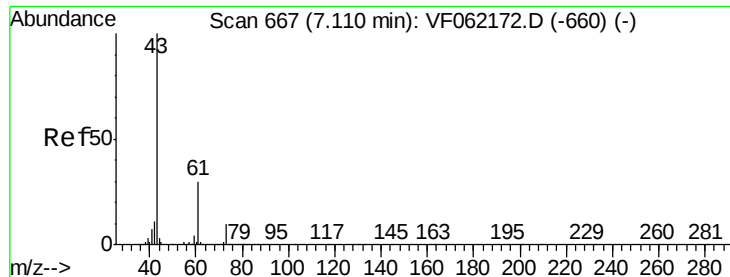
Tot Ion:	41	Resp:	42670
Ion	Ratio	Lower	Upper
41	100		
39	50.0	43.5	65.3
67	51.6	42.9	64.3
52	39.0	30.4	45.6



#42
1,2-Dichloroethane
Concen: 19.907 ug/l
RT: 5.12 min Scan# 466
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion:	62	Resp:	100989
Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	22.0



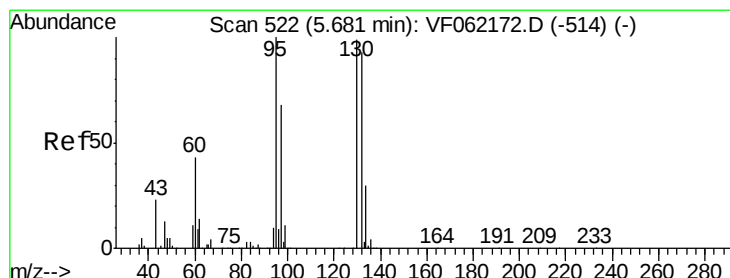
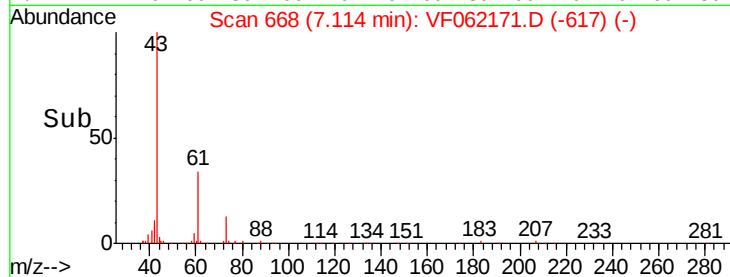
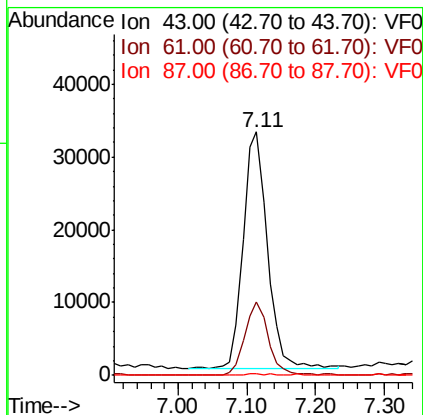
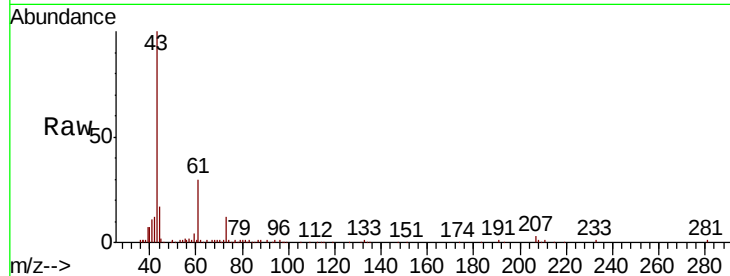


#43

Isopropyl Acetate
 Concen: 19.438 ug/l
 RT: 7.11 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

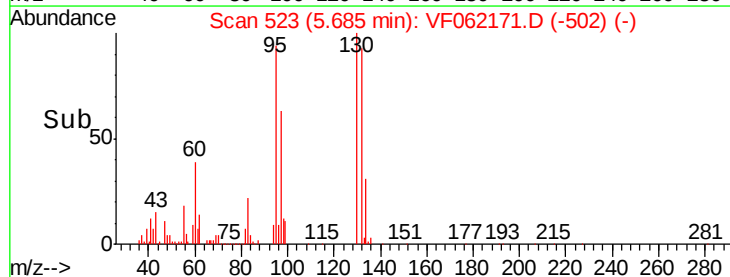
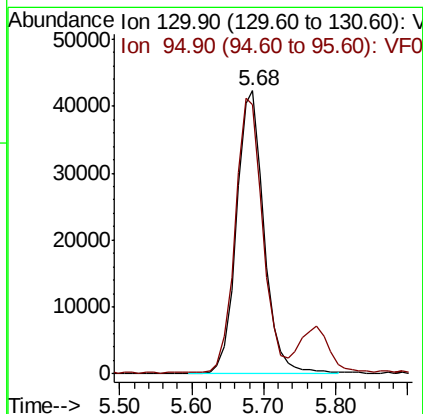
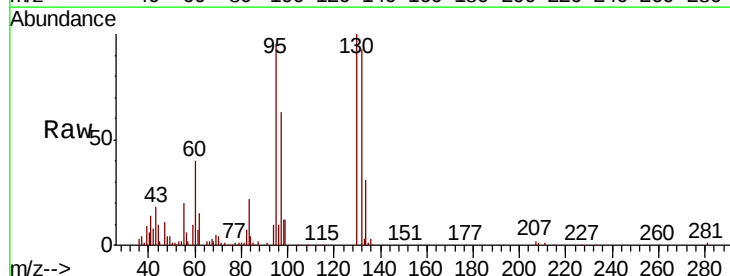
Tot Ion: 43 Resp: 78984
 Ion Ratio Lower Upper
 43 100
 61 30.0 23.7 35.5
 87 0.8 0.3 0.5#

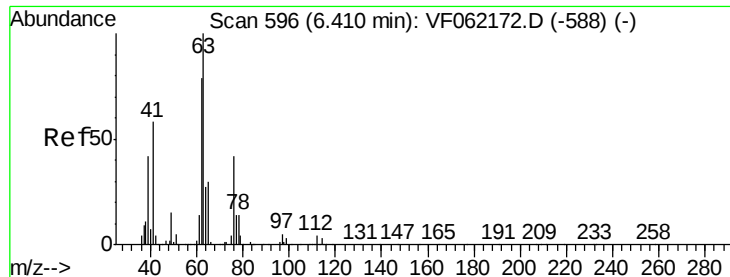


#44

Trichloroethene
 Concen: 20.966 ug/l
 RT: 5.68 min Scan# 523
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion:130 Resp: 112477
 Ion Ratio Lower Upper
 130 100
 95 95.3 0.0 202.2





#45

1,2-Dichloropropane

Concen: 20.012 ug/l

RT: 6.40 min Scan# 596

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

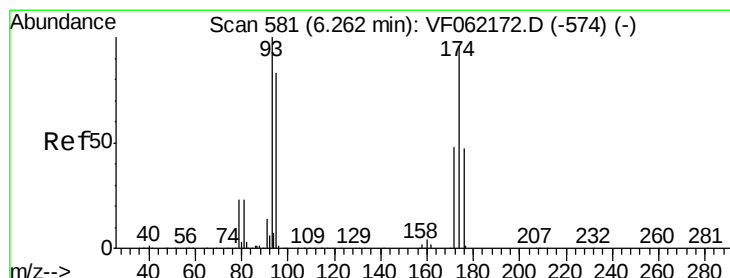
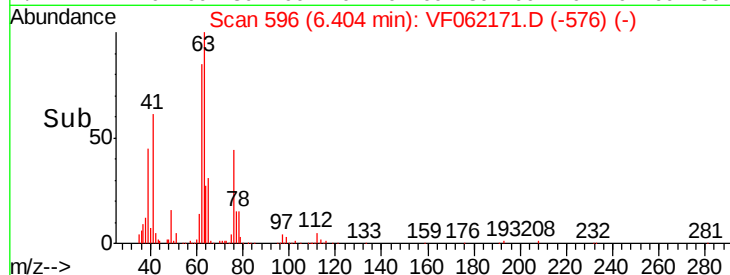
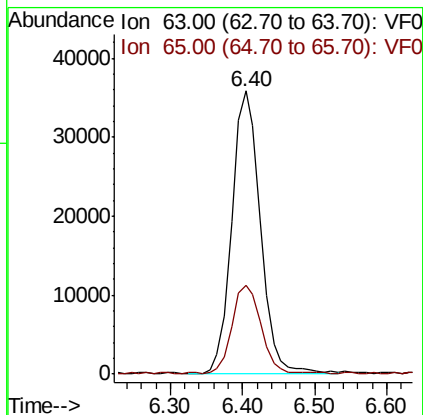
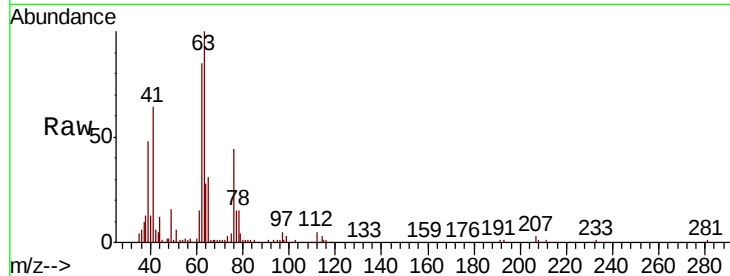
VSTDIC020

Tot Ion: 63 Resp: 98400

Ion Ratio Lower Upper

63 100

65 31.4 23.7 35.5



#46

Dibromomethane

Concen: 20.752 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

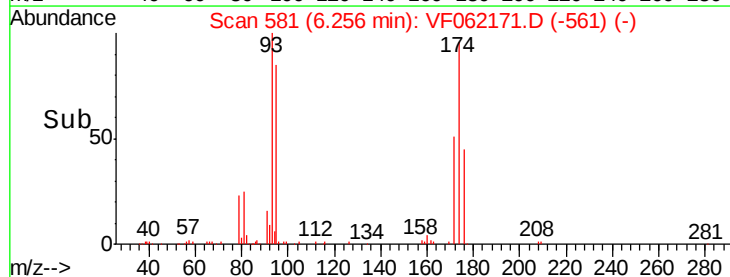
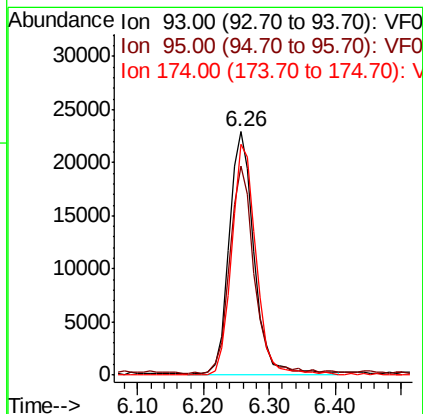
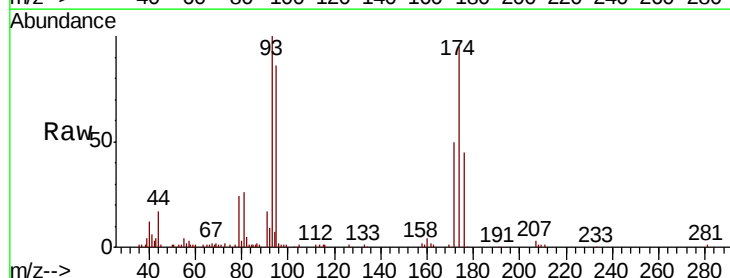
Tgt Ion: 93 Resp: 61531

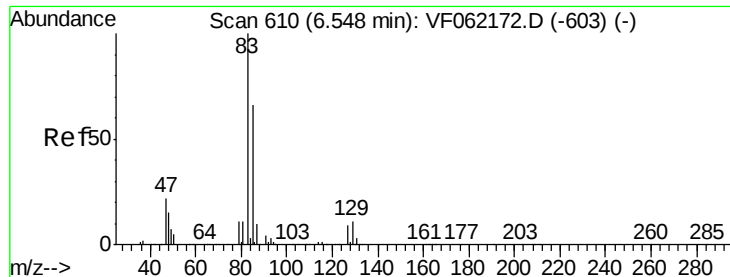
Ion Ratio Lower Upper

93 100

95 85.8 67.0 100.6

174 94.9 76.3 114.5





#47

Bromodichloromethane

Concen: 20.450 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

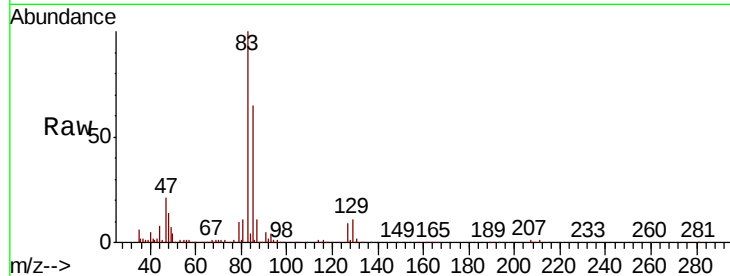
Tot Ion: 83 Resp: 137372

Ion Ratio Lower Upper

83 100

85 65.4 52.6 79.0

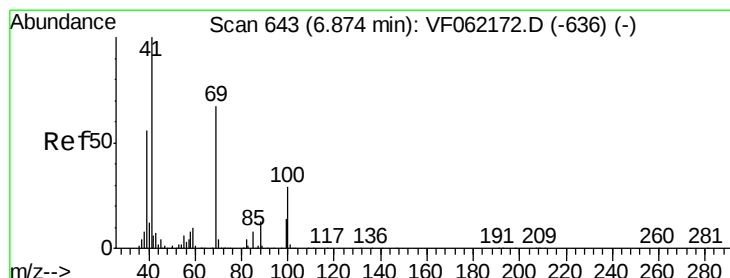
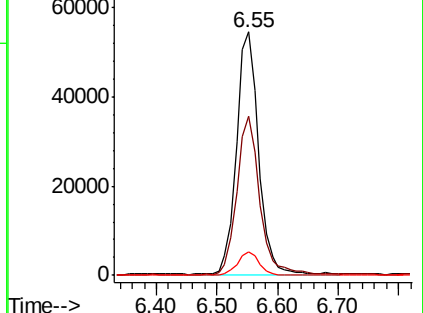
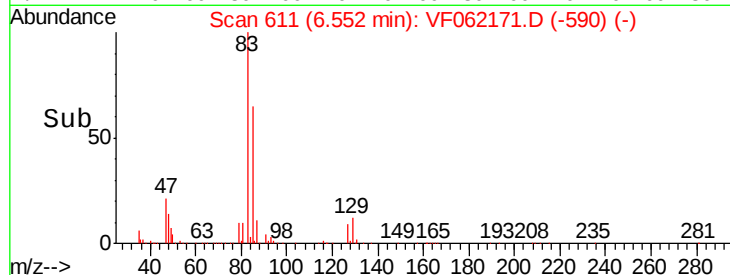
127 9.4 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 19.469 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

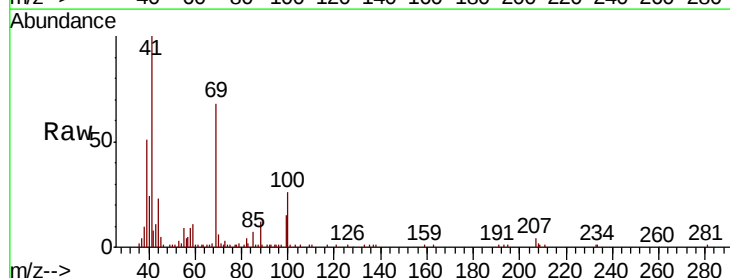
Tgt Ion: 41 Resp: 51493

Ion Ratio Lower Upper

41 100

69 68.5 52.8 79.2

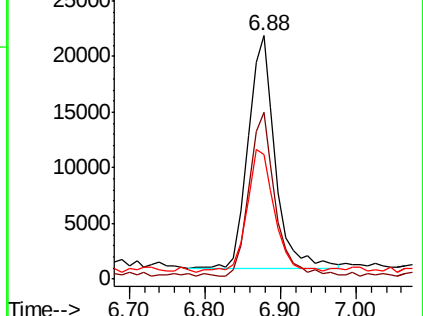
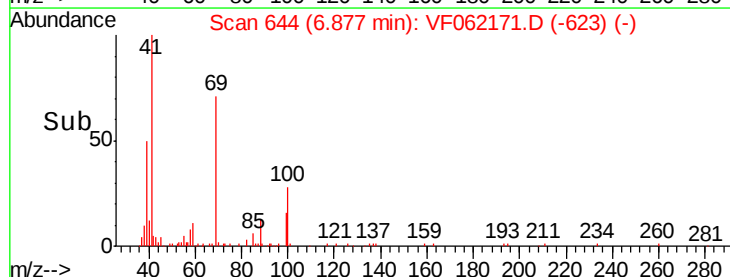
39 50.9 45.0 67.4

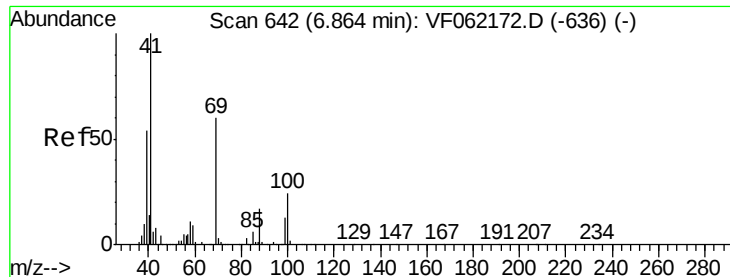


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

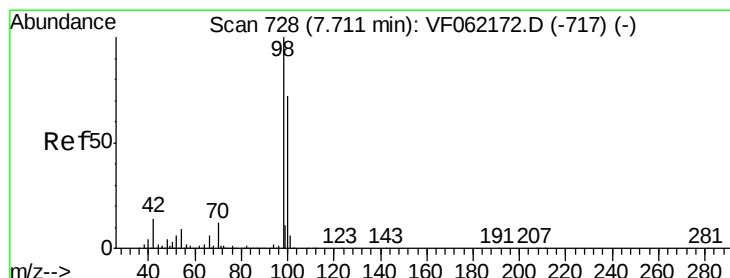
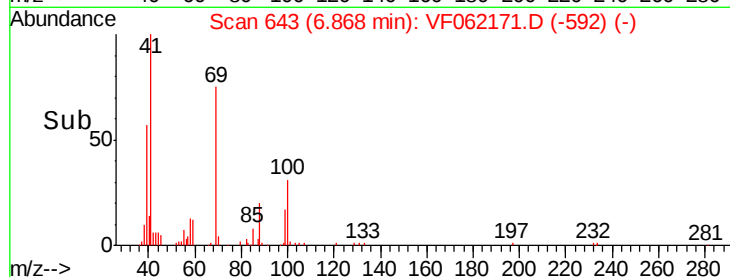
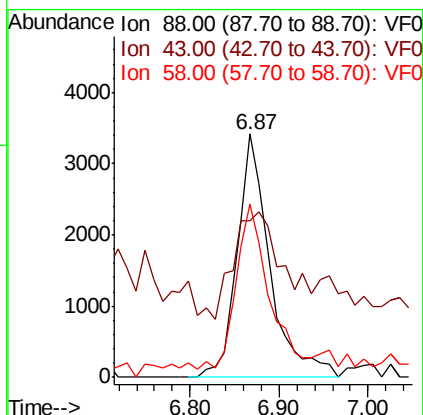
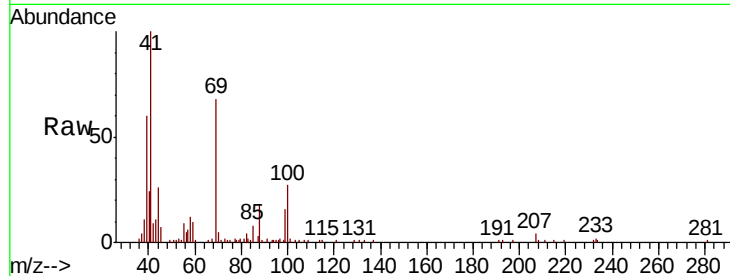




#49
1,4-Dioxane
Concen: 422.310 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

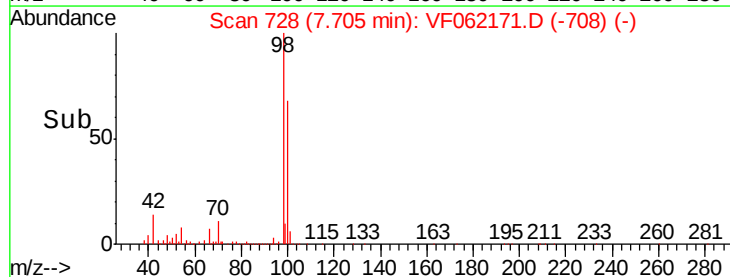
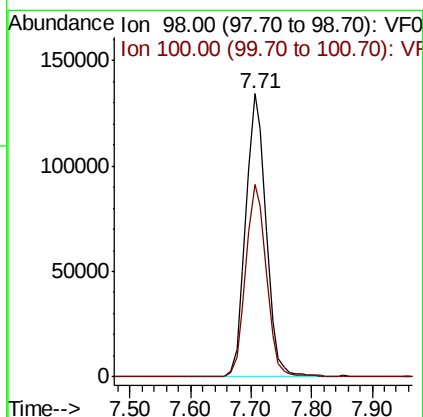
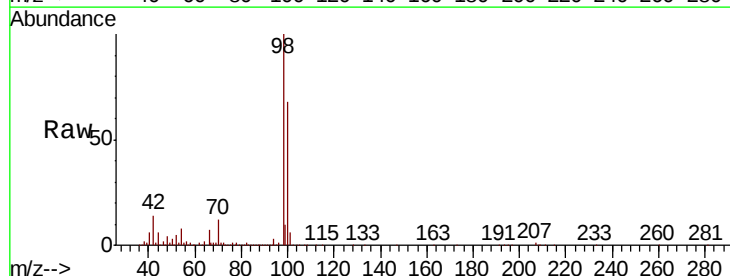
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

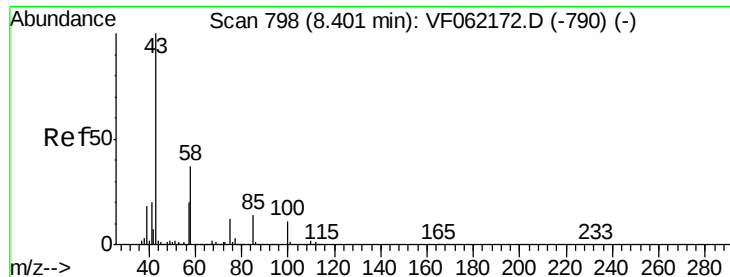
Tot Ion: 88 Resp: 8704
Ion Ratio Lower Upper
88 100
43 64.4 49.5 74.3
58 71.1 52.6 79.0



#50
Toluene-d8
Concen: 20.040 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 98 Resp: 315484
Ion Ratio Lower Upper
98 100
100 68.0 57.4 86.0





#51

4-Methyl-2-Pentanone

Concen: 111.696 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

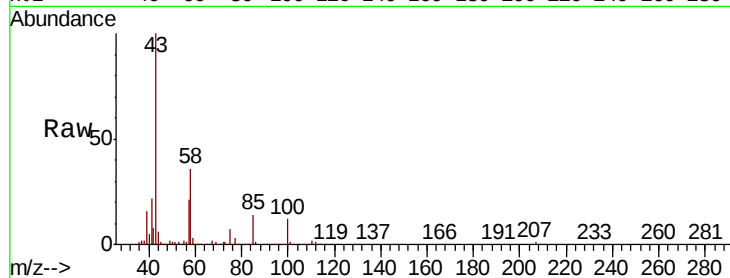
VSTDIC020

Tot Ion: 43 Resp: 347693

Ion Ratio Lower Upper

43 100

58 36.3 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

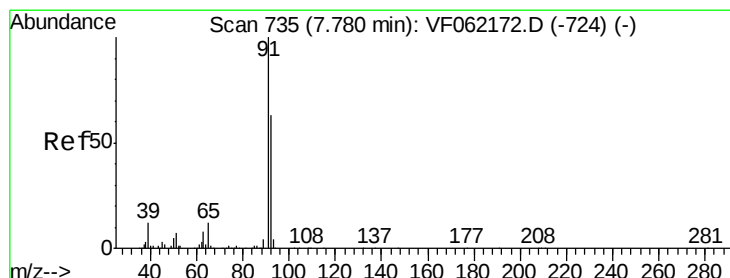
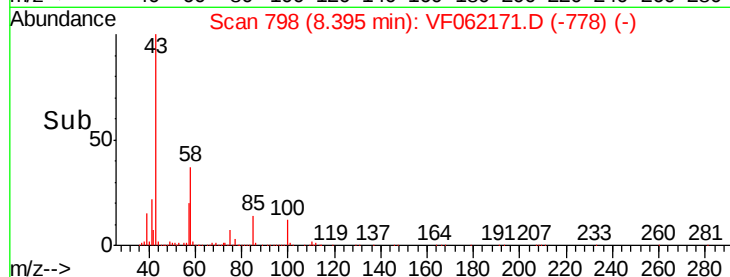
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.555 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF062171.D

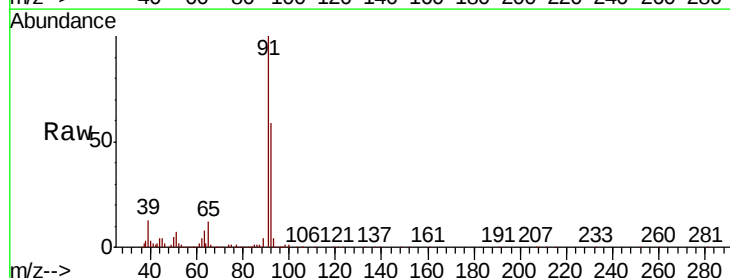
Acq: 16 Apr 2019 11:47

Tgt Ion: 92 Resp: 242032

Ion Ratio Lower Upper

92 100

91 169.3 126.9 190.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

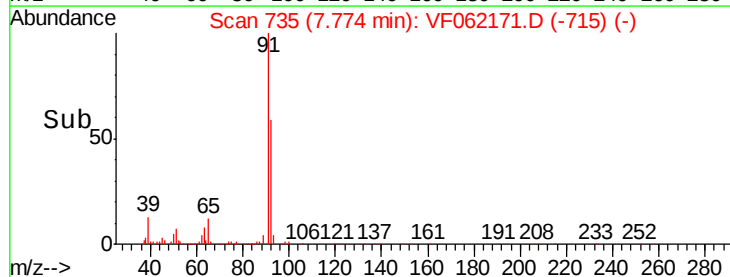
150000

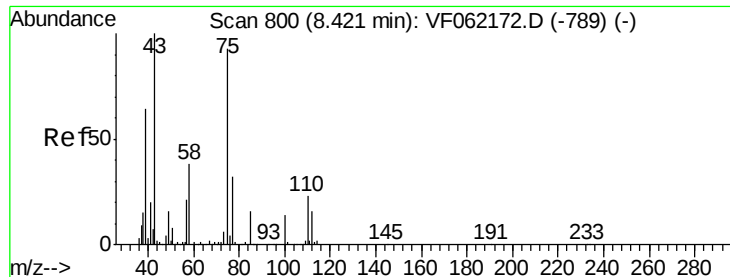
100000

50000

0

Time-->

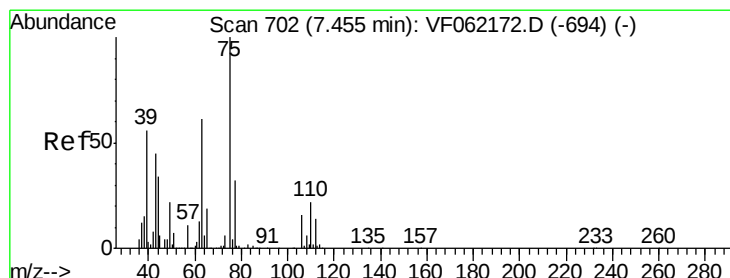
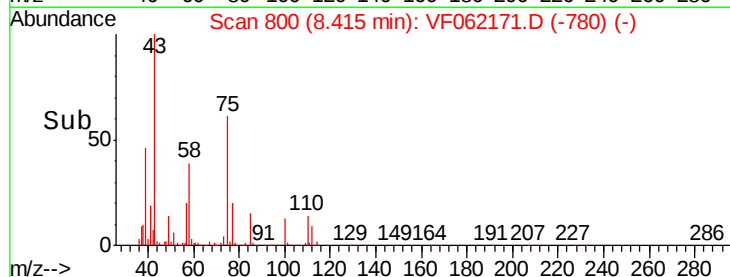
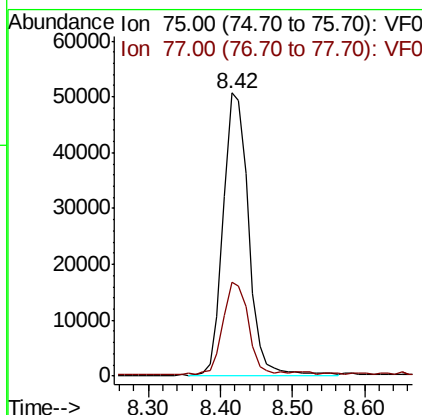
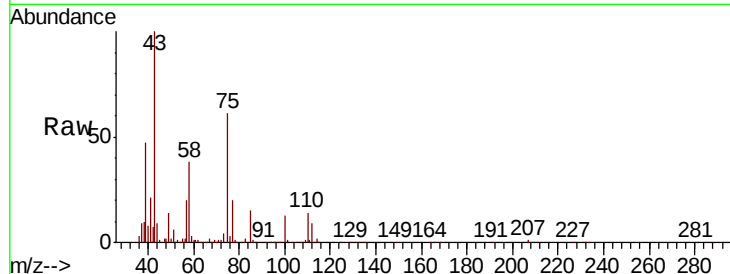




#53
t-1,3-Dichloropropene
Concen: 21.154 ug/l
RT: 8.42 min Scan# 800
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

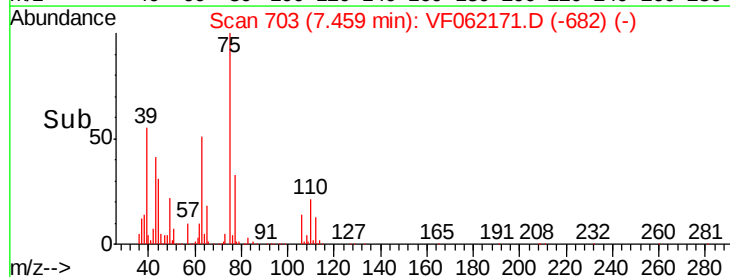
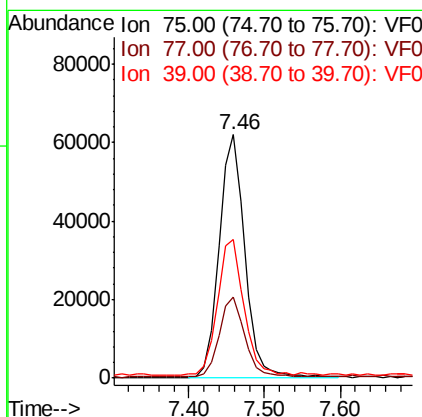
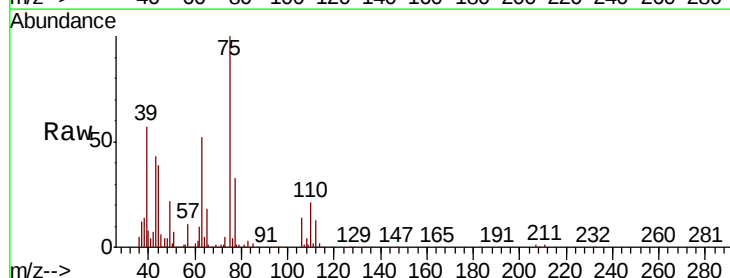
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

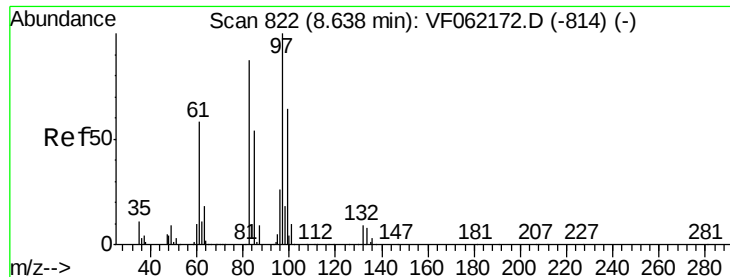
Tot Ion: 75 Resp: 123083
Ion Ratio Lower Upper
75 100
77 33.4 27.8 41.6



#54
cis-1,3-Dichloropropene
Concen: 19.946 ug/l
RT: 7.46 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 75 Resp: 147571
Ion Ratio Lower Upper
75 100
77 33.3 26.0 39.0
39 56.7 45.2 67.8

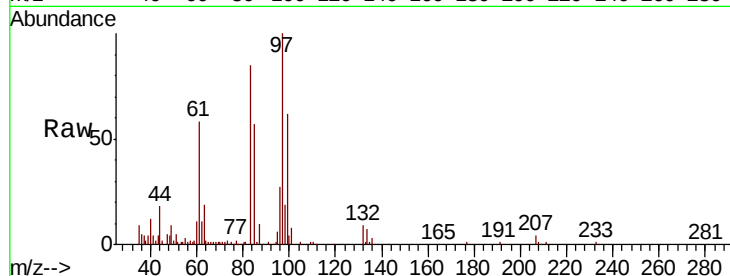




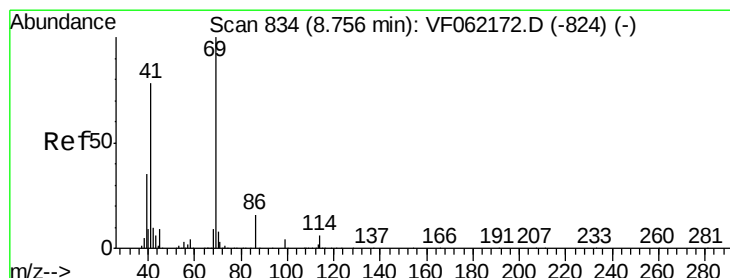
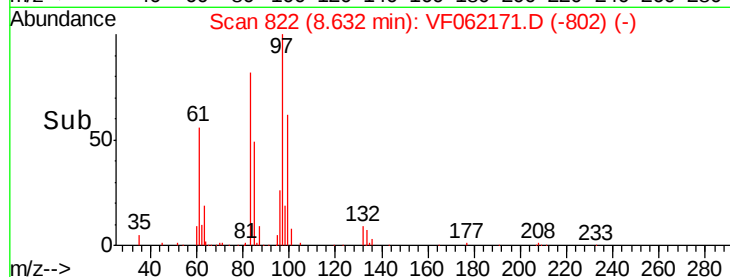
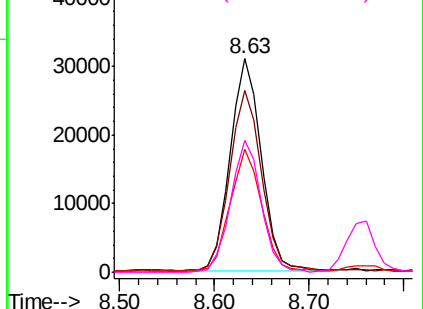
#55
 1,1,2-Trichloroethane
 Concen: 20.798 ug/l
 RT: 8.63 min Scan# 822
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	70138
Ion	Ratio	Lower	Upper
97	100		
83	85.3	69.6	104.4
85	57.5	43.5	65.3
99	61.5	51.5	77.3

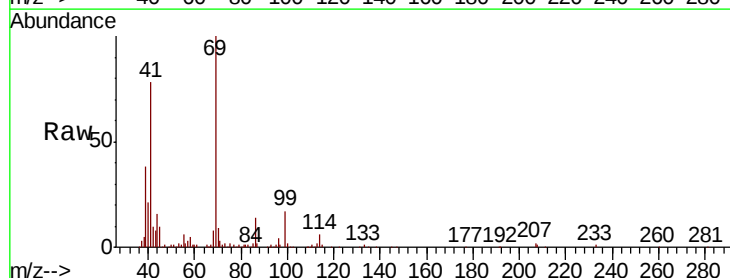


Abundance Ion 97.00 (96.70 to 97.70): VF0
 Ion 82.95 (82.65 to 83.65): VF0
 Ion 84.95 (84.65 to 85.65): VF0
 Ion 98.95 (98.65 to 99.65): VF0

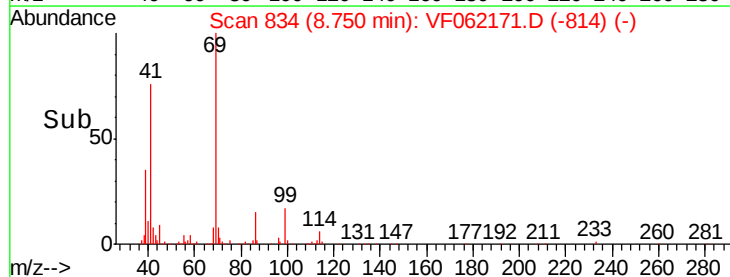
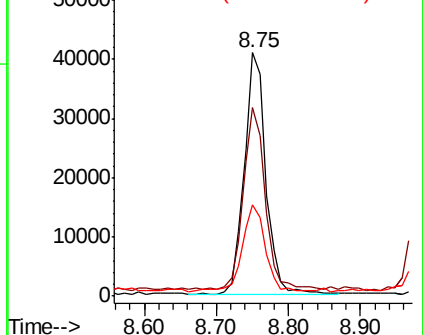


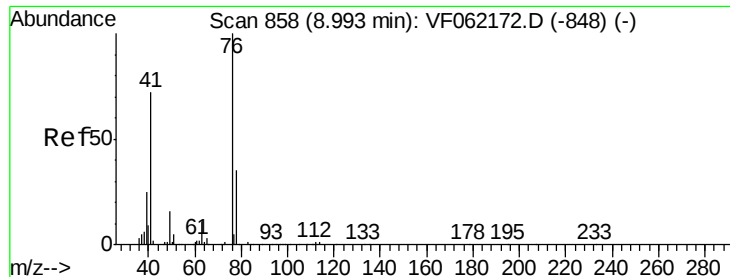
#56
 Ethyl methacrylate
 Concen: 21.385 ug/l
 RT: 8.75 min Scan# 834
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion:	69	Resp:	85754
Ion	Ratio	Lower	Upper
69	100		
41	77.6	63.4	95.0
39	37.5	29.0	43.6



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





#57

1,3-Dichloropropane

Concen: 20.350 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

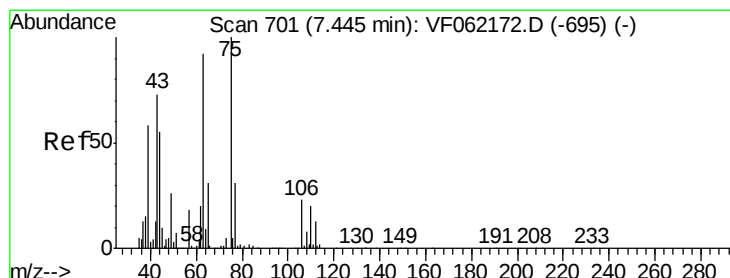
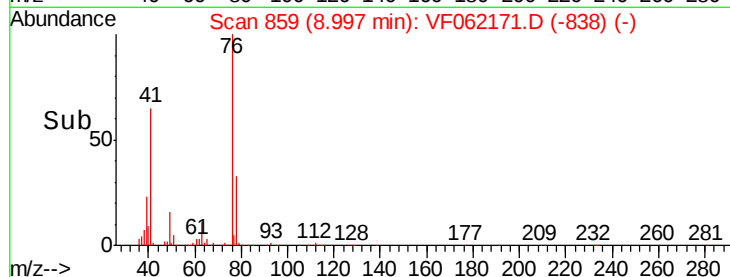
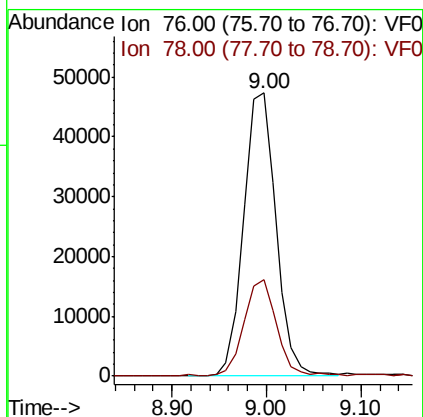
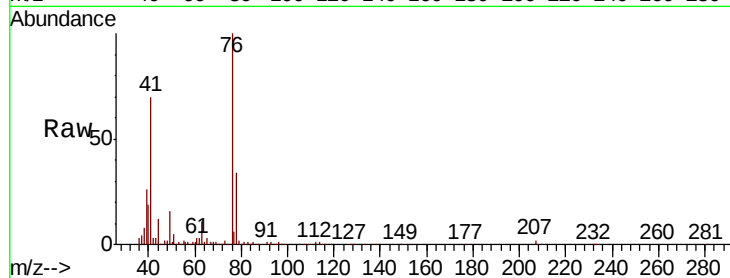
VSTDIC020

Tot Ion: 76 Resp: 112825

Ion Ratio Lower Upper

76 100

78 34.0 28.2 42.2



#58

2-Chloroethyl Vinyl ether

Concen: 100.569 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062171.D

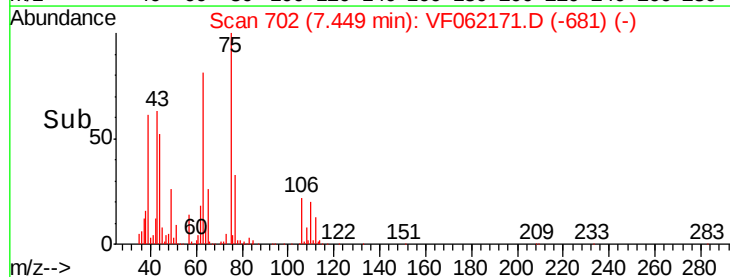
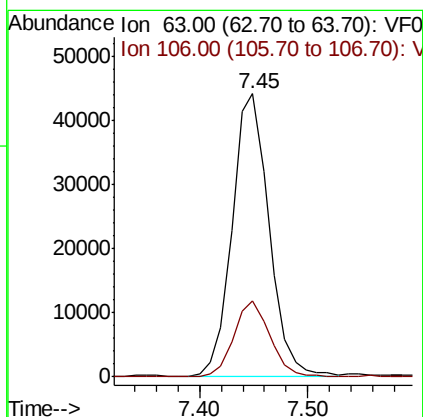
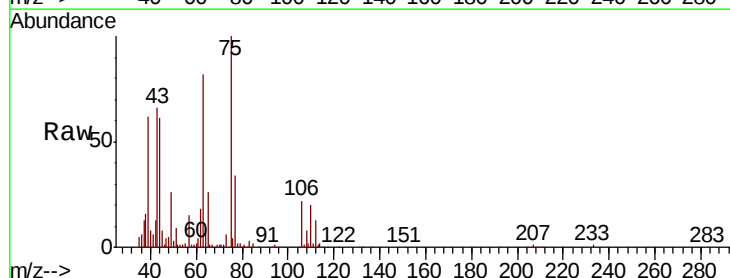
Acq: 16 Apr 2019 11:47

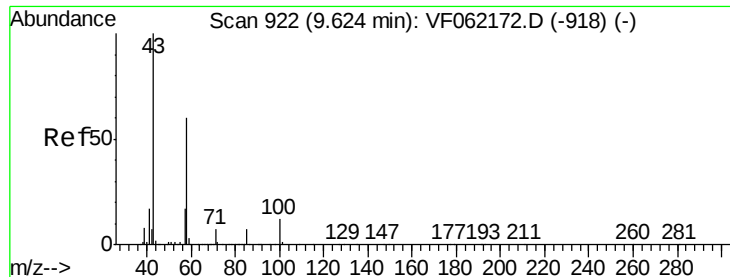
Tgt Ion: 63 Resp: 103907

Ion Ratio Lower Upper

63 100

106 27.0 20.2 30.4

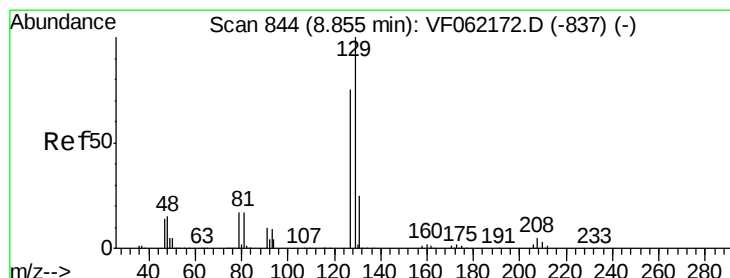
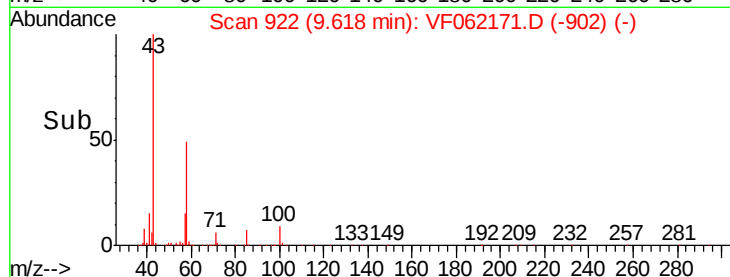
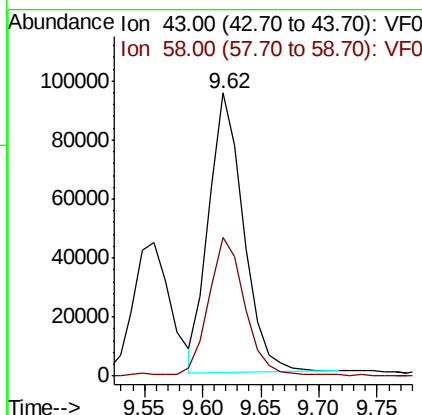
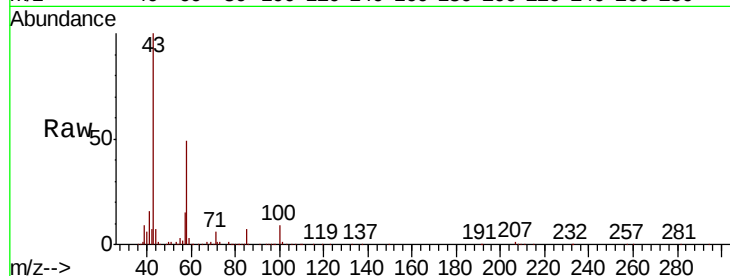




#59
2-Hexanone
Concen: 98.554 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

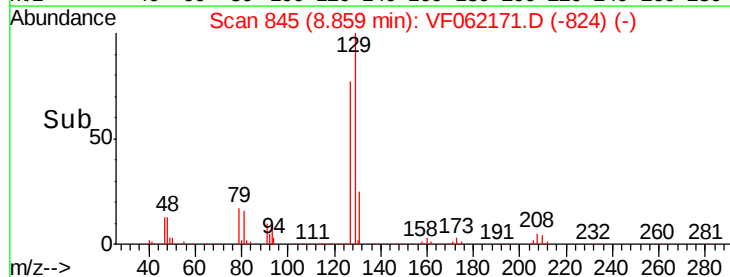
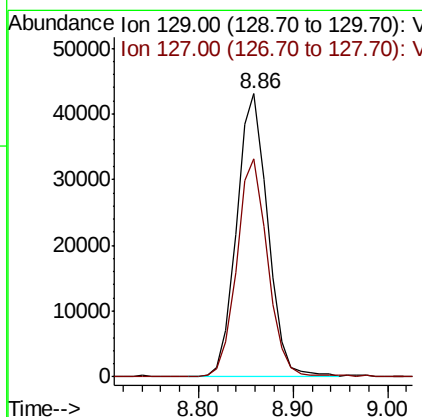
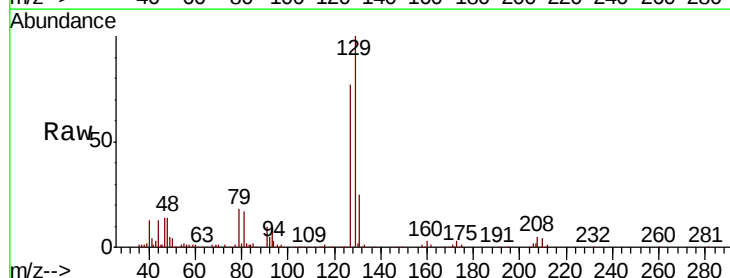
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

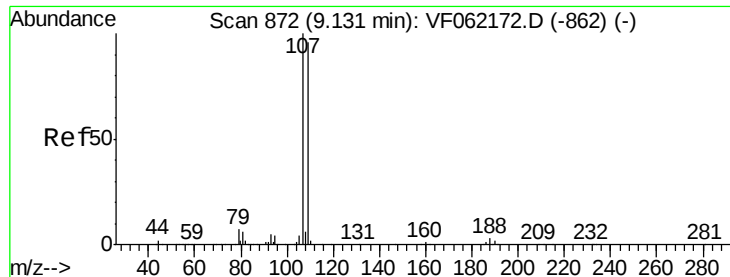
Tot Ion: 43 Resp: 195243
Ion Ratio Lower Upper
43 100
58 49.2 26.8 80.4



#60
Dibromochloromethane
Concen: 20.982 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion: 129 Resp: 97354
Ion Ratio Lower Upper
129 100
127 76.9 37.7 113.1





#61

1,2-Dibromoethane

Concen: 20.019 ug/l

RT: 9.12 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

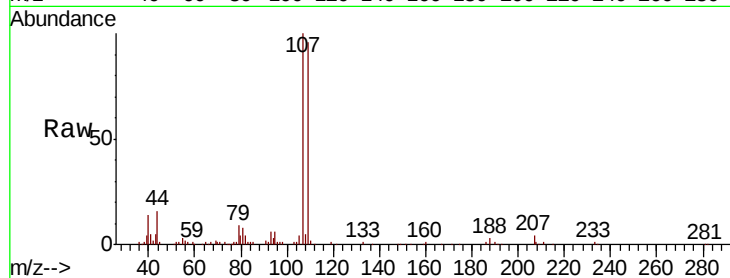
VSTDIC020

Tot Ion: 107 Resp: 72227

Ion Ratio Lower Upper

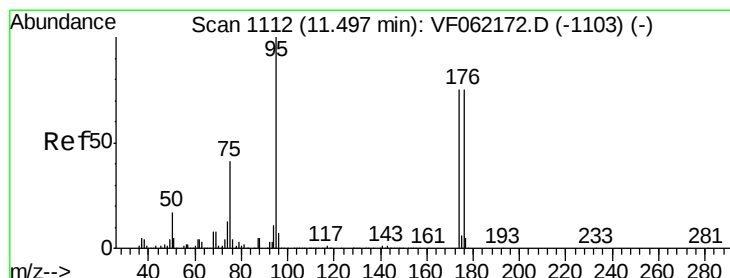
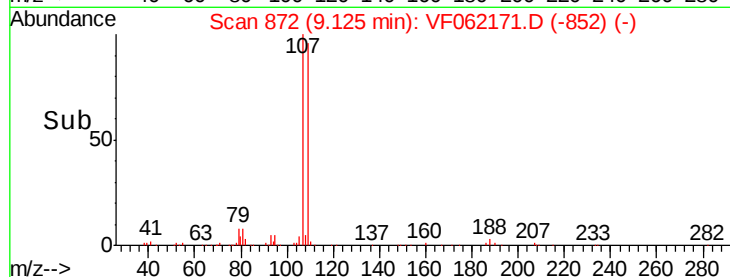
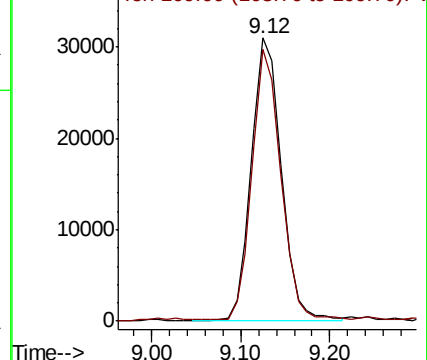
107 100

109 96.0 76.8 115.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 21.146 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

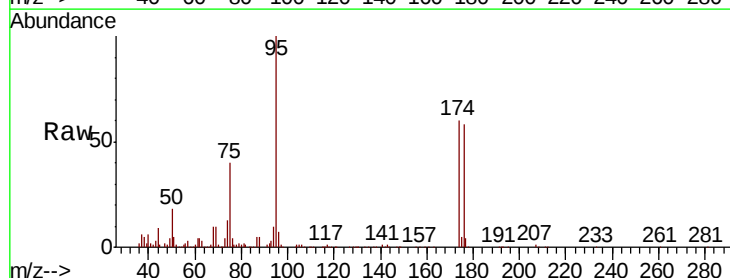
Tgt Ion: 95 Resp: 131459

Ion Ratio Lower Upper

95 100

174 59.8 0.0 150.2

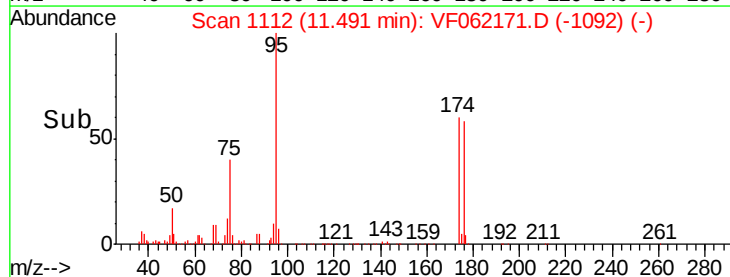
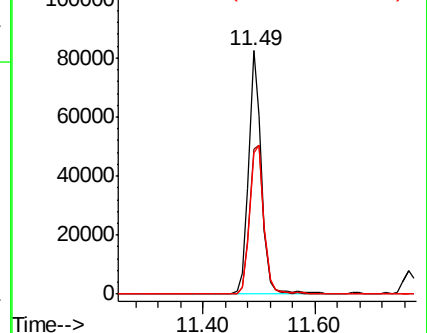
176 57.9 0.0 149.4

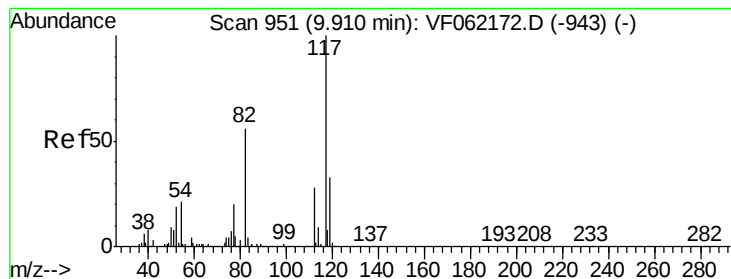


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

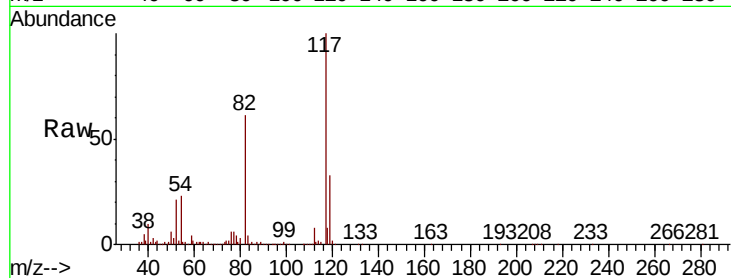
Tot Ion:117 Resp: 539609

Ion Ratio Lower Upper

117 100

82 60.5 45.2 67.8

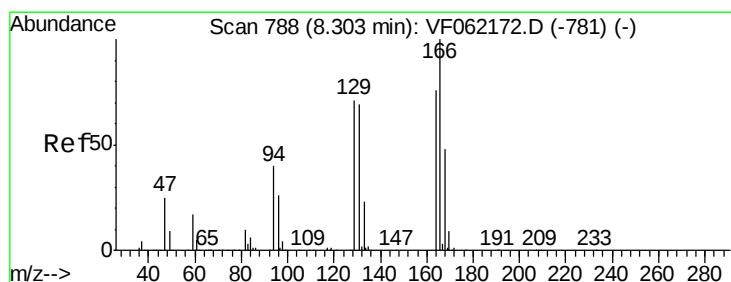
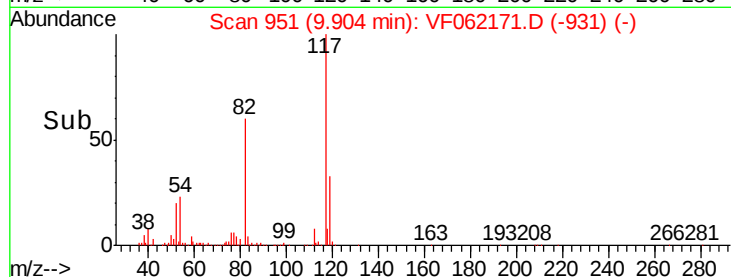
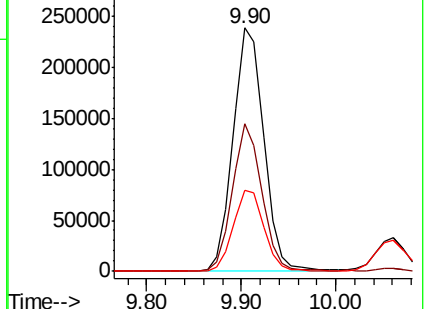
119 33.4 26.6 39.8



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: 21.189 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Tgt Ion:164 Resp: 93384

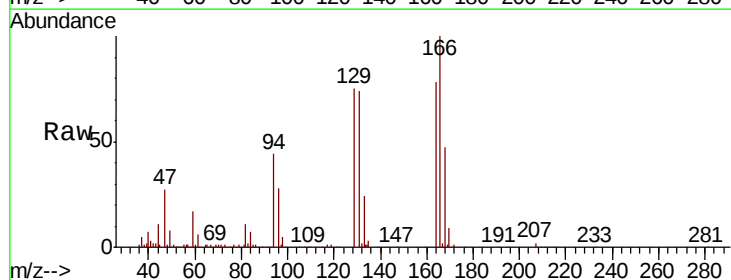
Ion Ratio Lower Upper

164 100

166 128.4 105.9 158.9

129 96.7 75.3 112.9

131 95.5 73.4 110.2

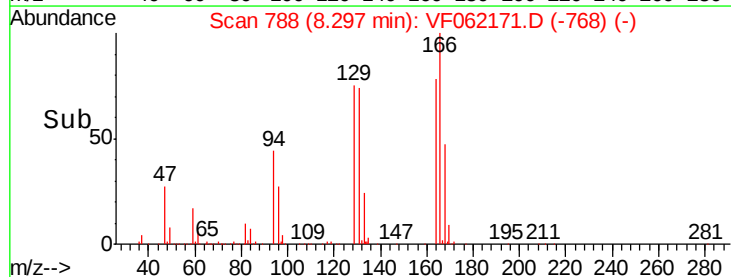
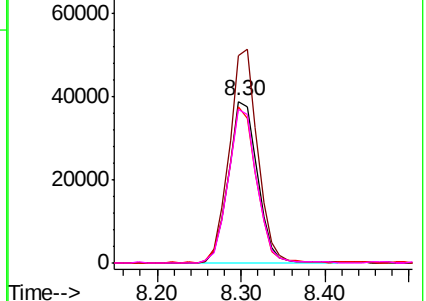


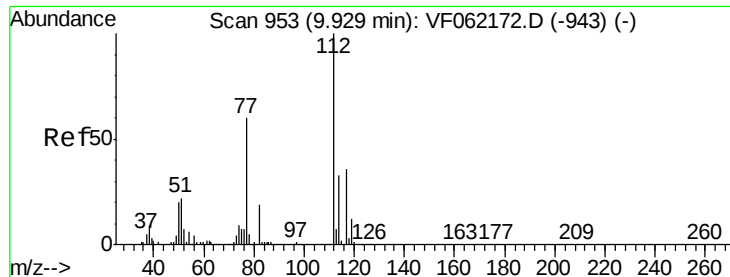
Abundance Ion 163.85 (163.55 to 164.55): V

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: 20.477 ug/l

RT: 9.93 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

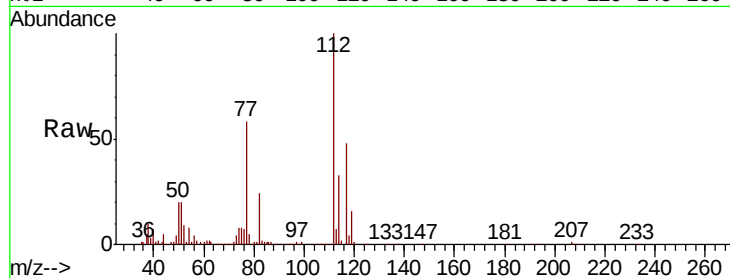
VSTDIC020

Tot Ion:112 Resp: 229862

Ion Ratio Lower Upper

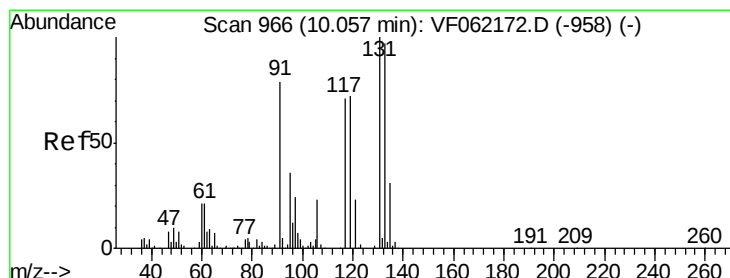
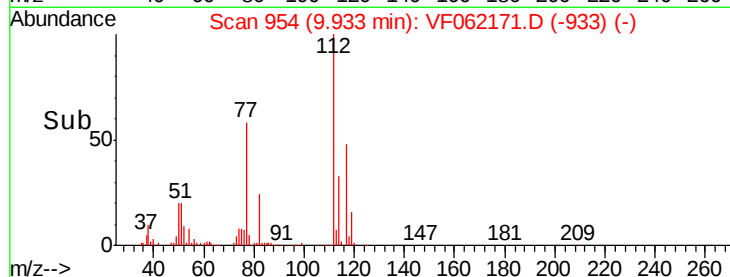
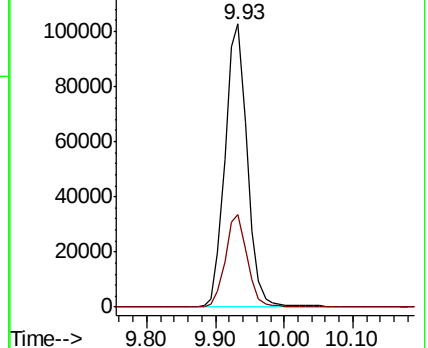
112 100

114 32.9 26.6 39.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.639 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

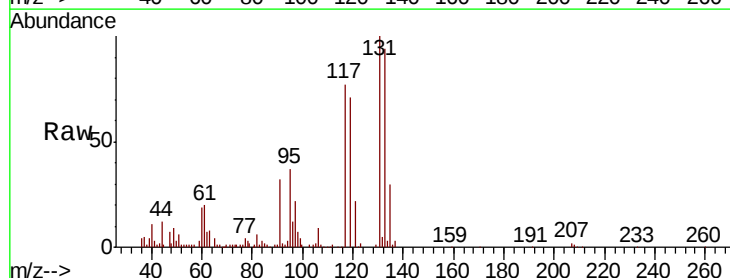
Tgt Ion:131 Resp: 100282

Ion Ratio Lower Upper

131 100

133 94.0 48.4 145.2

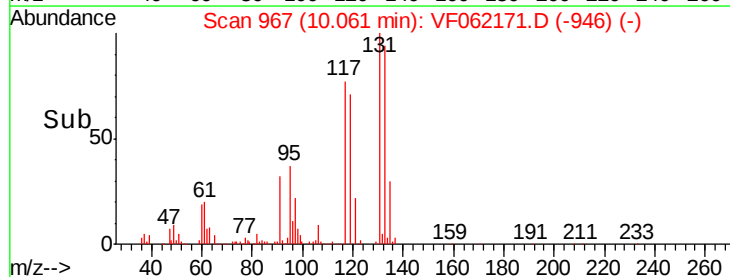
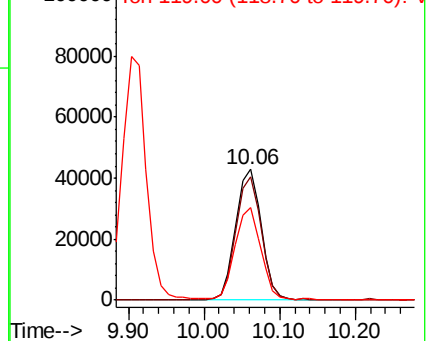
119 71.3 36.3 108.9

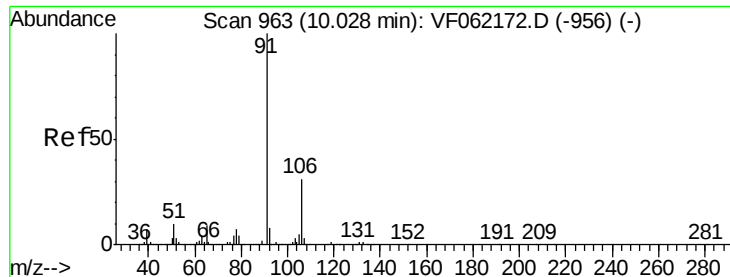


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 21.054 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

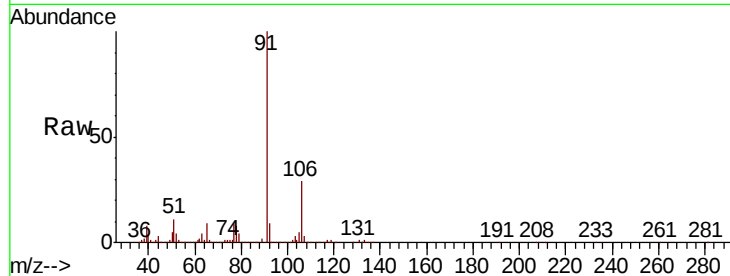
VSTDIC020

Tot Ion: 91 Resp: 438092

Ion Ratio Lower Upper

91 100

106 28.7 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

300000

200000

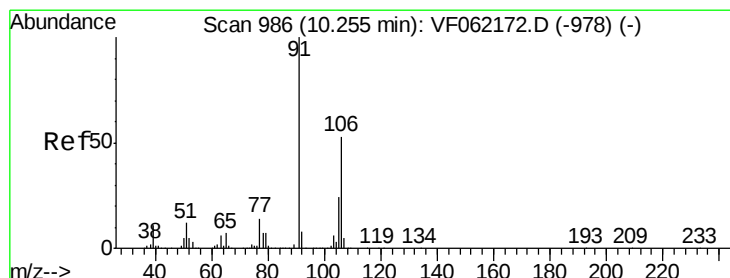
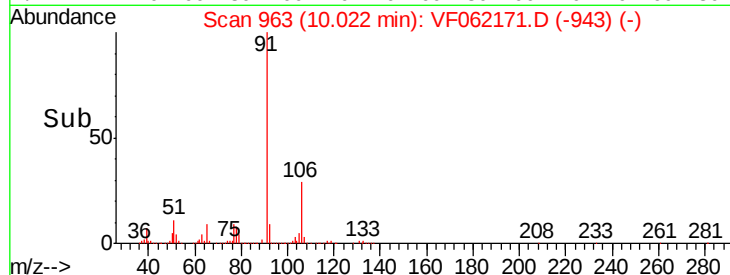
100000

0

10.02

Time-->

9.90 10.00 10.10 10.20



#68

m/p-Xylenes

Concen: 41.147 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.00 min

Lab File: VF062171.D

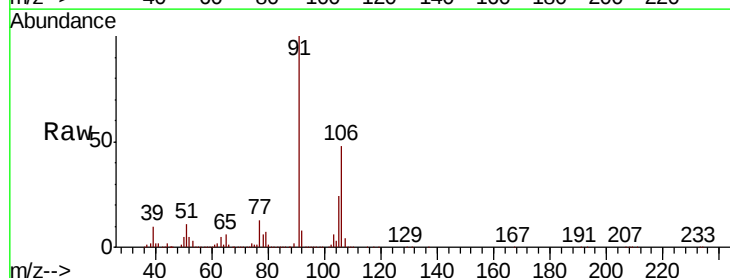
Acq: 16 Apr 2019 11:47

Tgt Ion:106 Resp: 315244

Ion Ratio Lower Upper

106 100

91 206.2 151.7 227.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

300000

200000

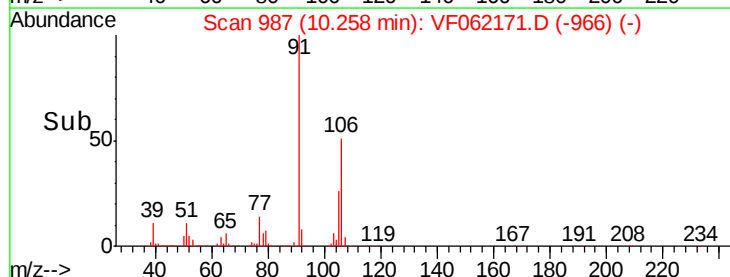
100000

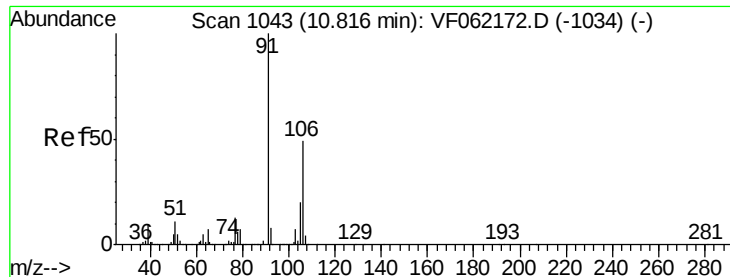
0

10.26

Time-->

10.20 10.30 10.40

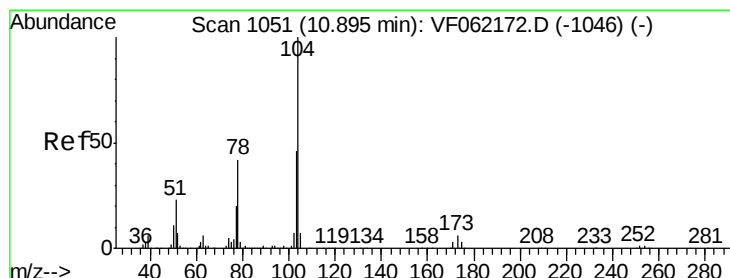
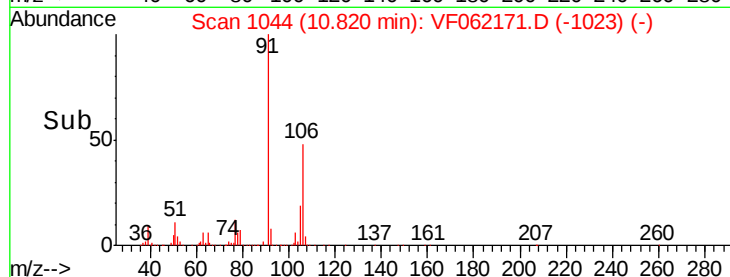
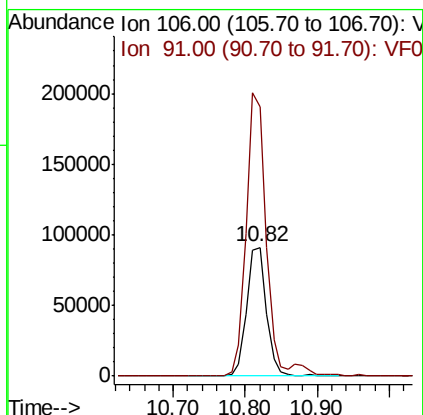
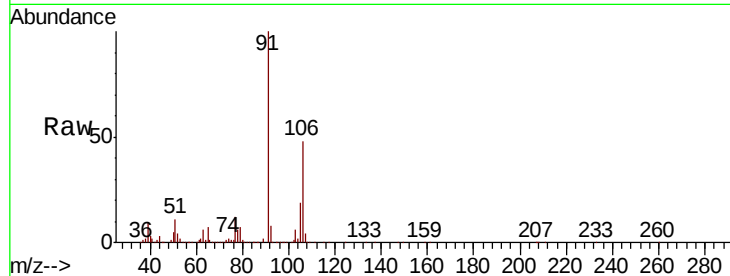




#69
o-Xylene
Concen: 21.249 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

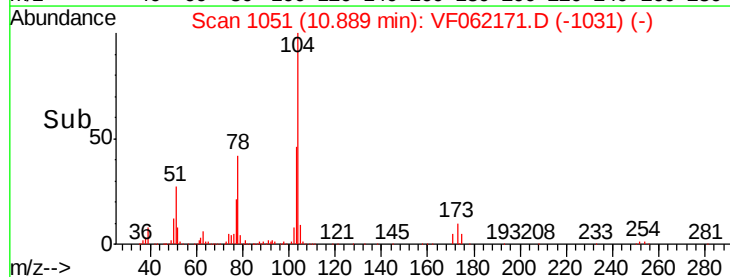
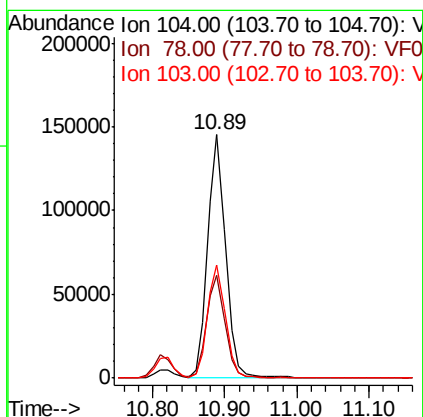
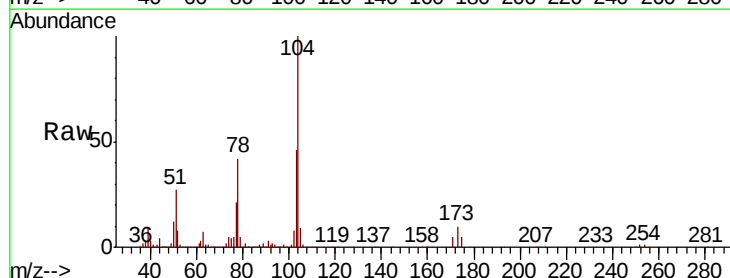
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

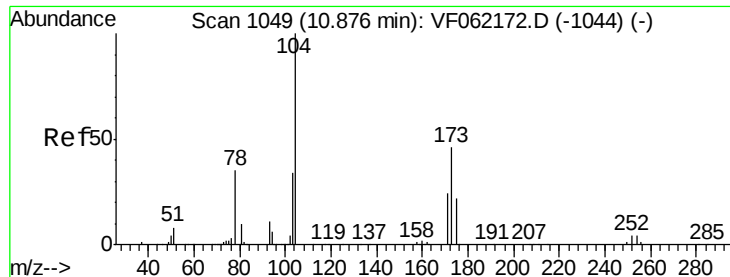
Tot Ion:106 Resp: 176218
Ion Ratio Lower Upper
106 100
91 209.2 101.9 305.7



#70
Styrene
Concen: 20.676 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VF062171.D
Acq: 16 Apr 2019 11:47

Tgt Ion:104 Resp: 249262
Ion Ratio Lower Upper
104 100
78 42.3 33.7 50.5
103 46.4 37.2 55.8





#71

Bromoform

Concen: 20.976 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

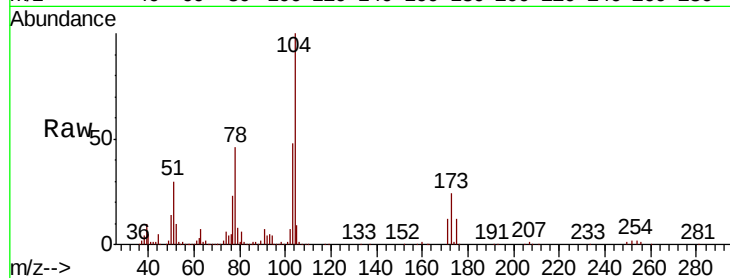
Tot Ion:173 Resp: 50908

Ion Ratio Lower Upper

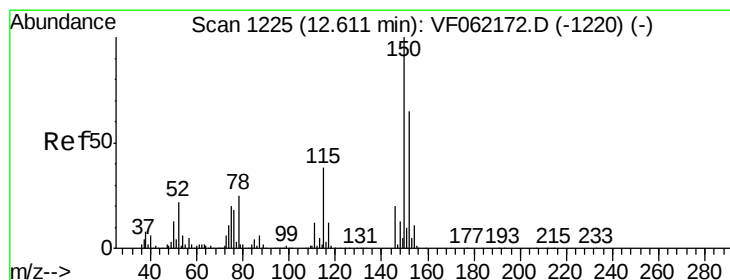
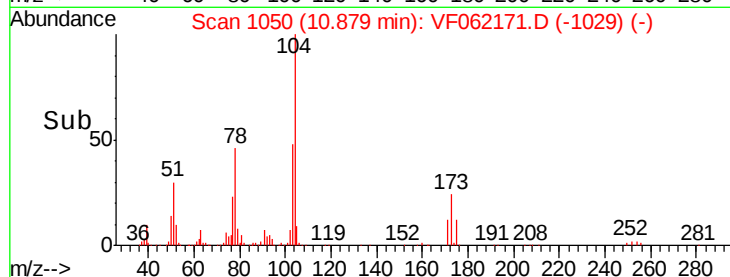
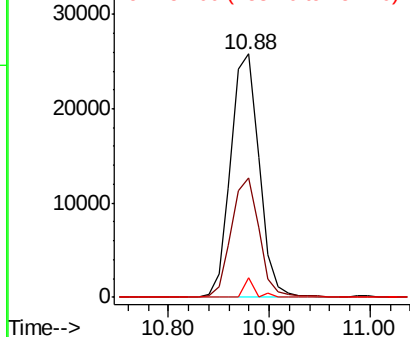
173 100

175 49.1 24.3 72.8

254 8.2 6.6 9.8



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: 12.61 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

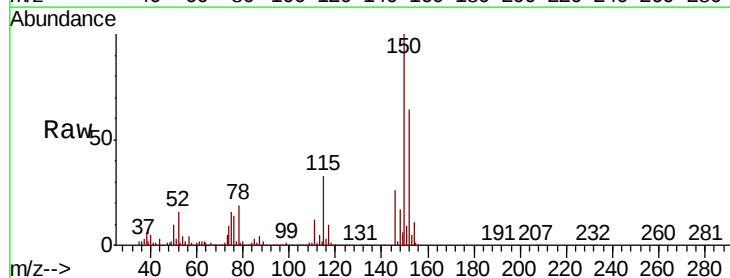
Tgt Ion:152 Resp: 293965

Ion Ratio Lower Upper

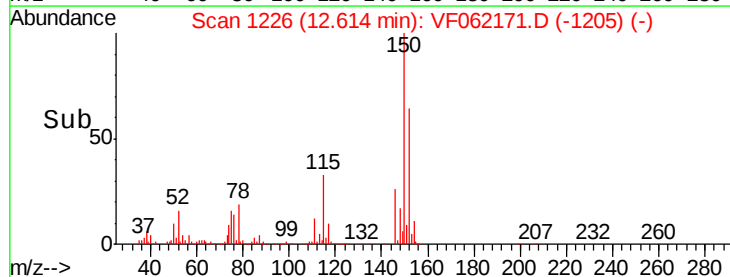
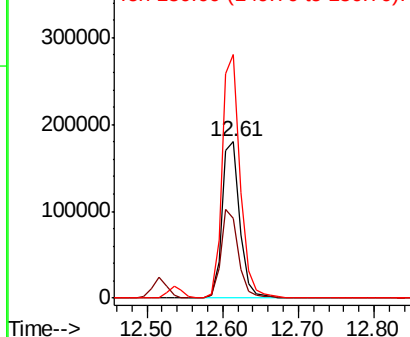
152 100

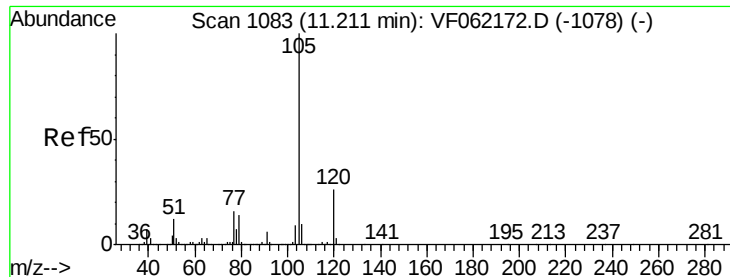
115 51.3 29.0 87.1

150 156.1 0.0 309.2



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: 19.887 ug/l

RT: 11.21 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

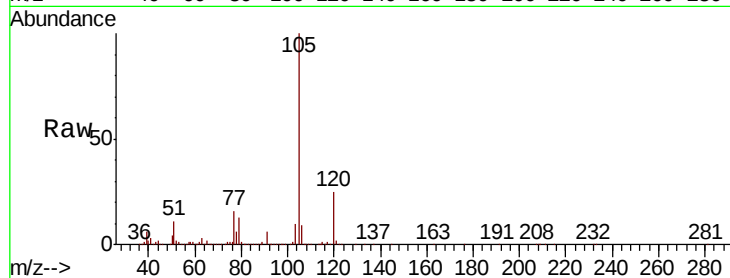
VSTDIC020

Tot Ion:105 Resp: 503632

Ion Ratio Lower Upper

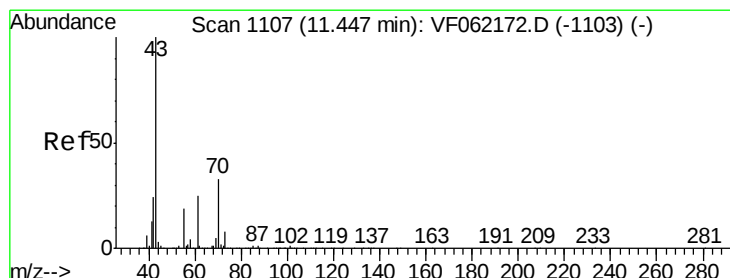
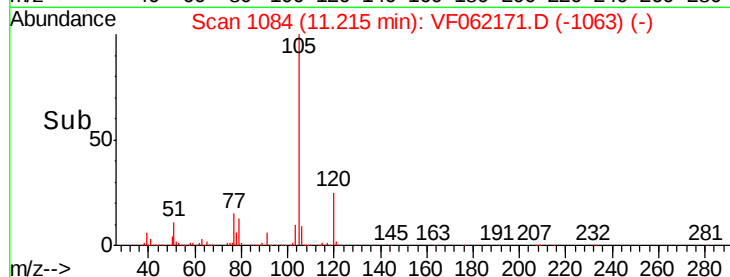
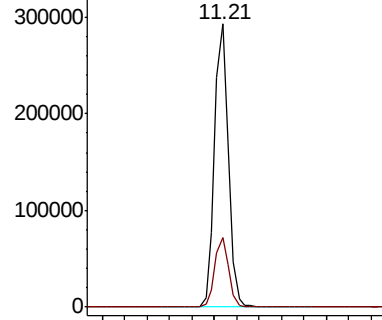
105 100

120 24.7 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.831 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Tgt Ion: 43 Resp: 130905

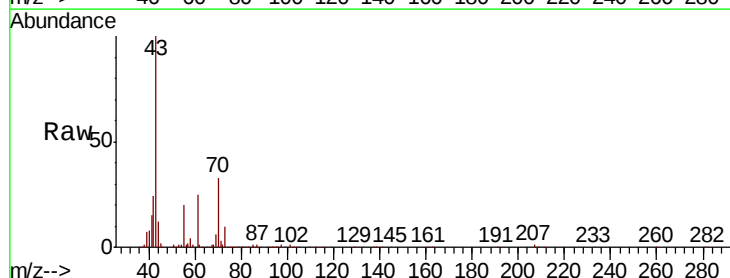
Ion Ratio Lower Upper

43 100

70 32.8 26.6 39.8

55 20.3 15.0 22.6

61 24.9 20.0 30.0

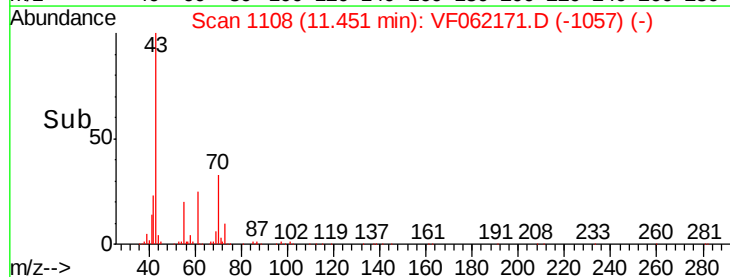
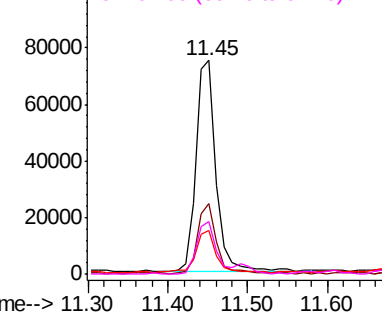


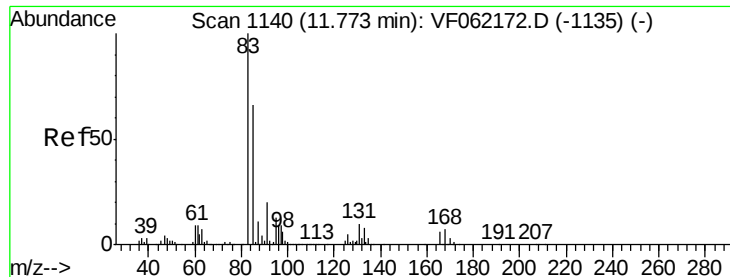
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 19.925 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

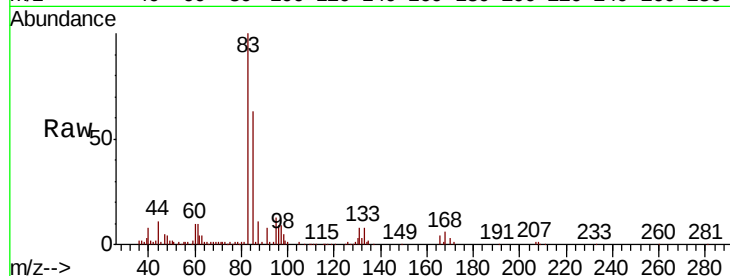
Tot Ion: 83 Resp: 89891

Ion Ratio Lower Upper

83 100

131 7.8 4.8 14.4

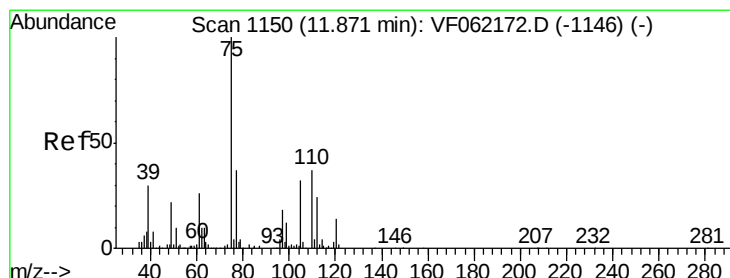
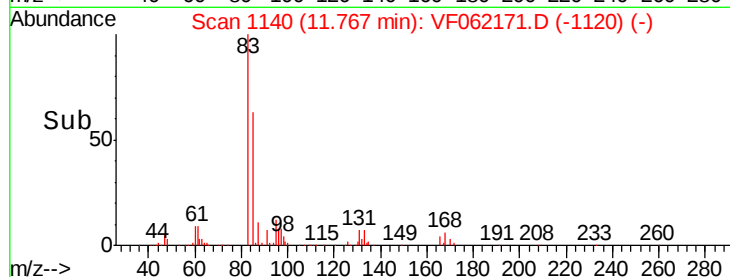
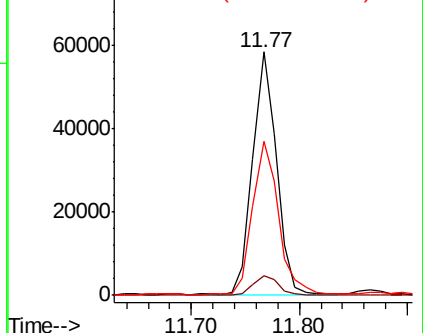
85 63.4 33.2 99.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.193 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF062171.D

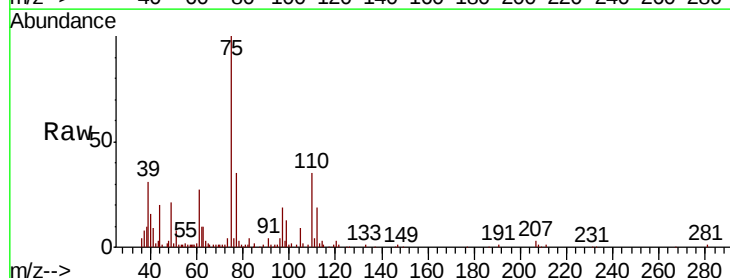
Acq: 16 Apr 2019 11:47

Tgt Ion: 75 Resp: 58669

Ion Ratio Lower Upper

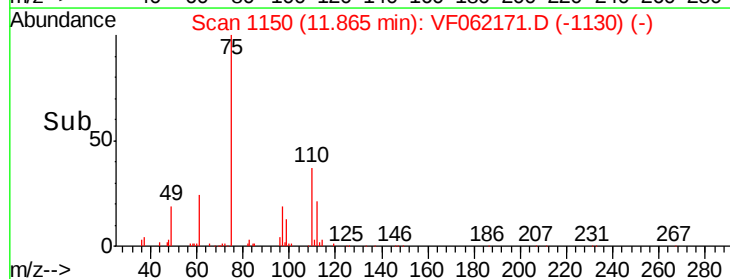
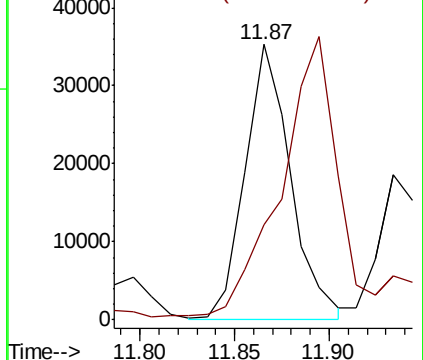
75 100

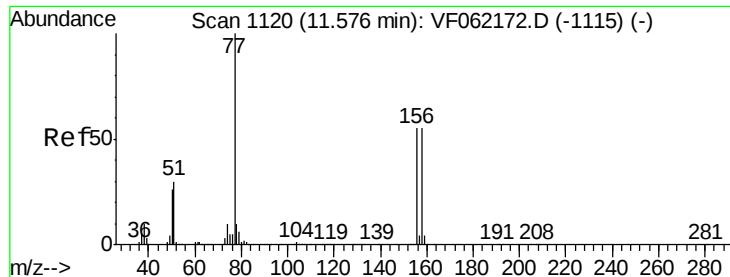
77 34.5 18.7 56.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.417 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

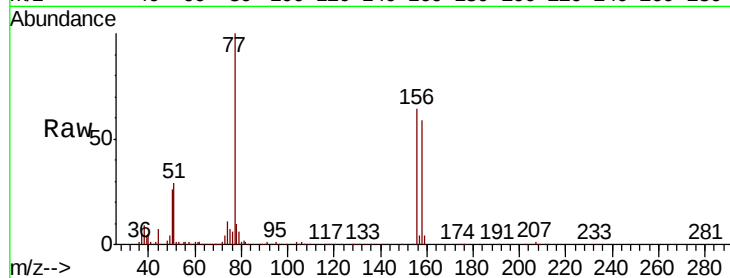
Tot Ion:156 Resp: 102265

Ion Ratio Lower Upper

156 100

77 157.2 91.1 273.4

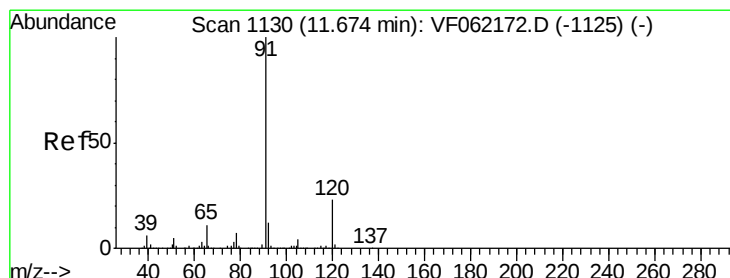
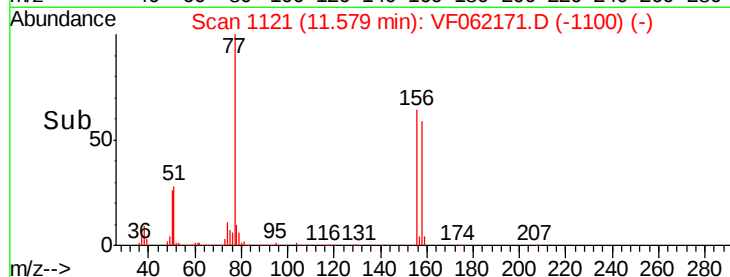
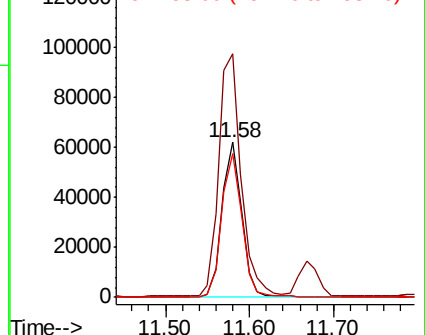
158 93.1 50.1 150.4



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 20.326 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062171.D

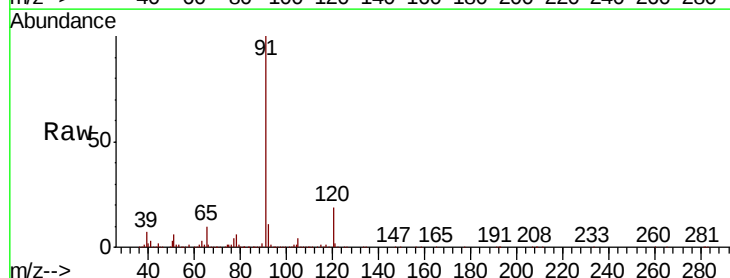
Acq: 16 Apr 2019 11:47

Tgt Ion: 91 Resp: 585113

Ion Ratio Lower Upper

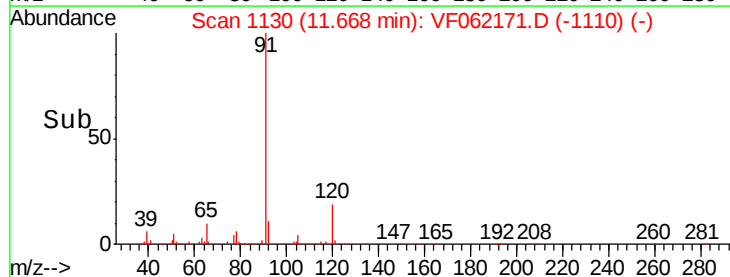
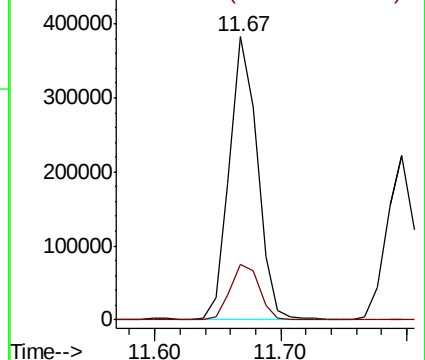
91 100

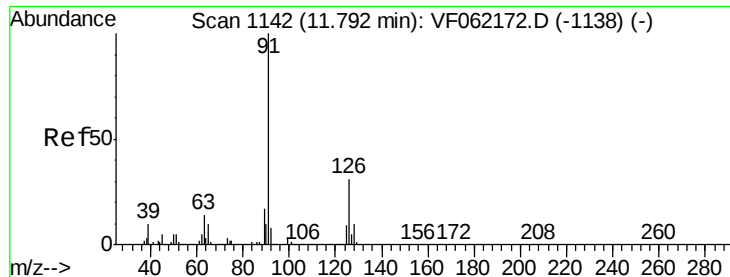
120 19.4 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.041 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

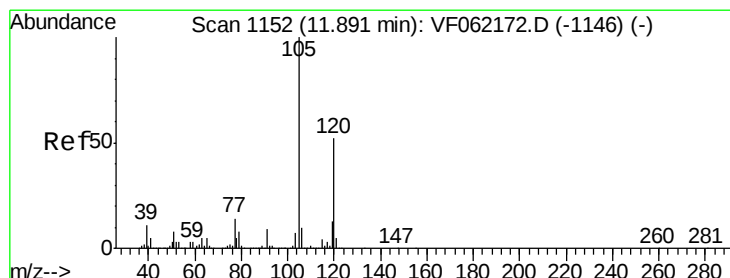
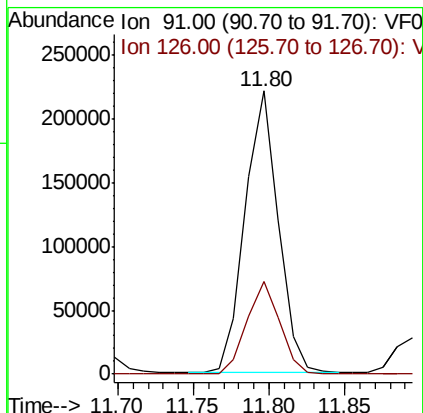
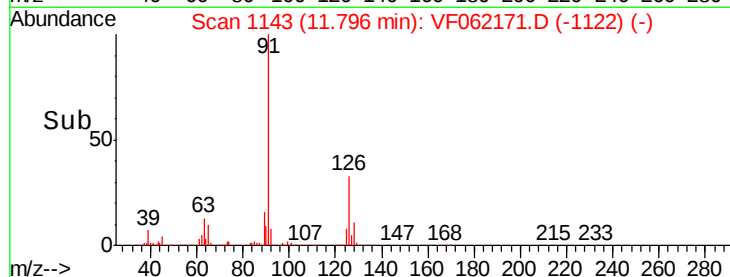
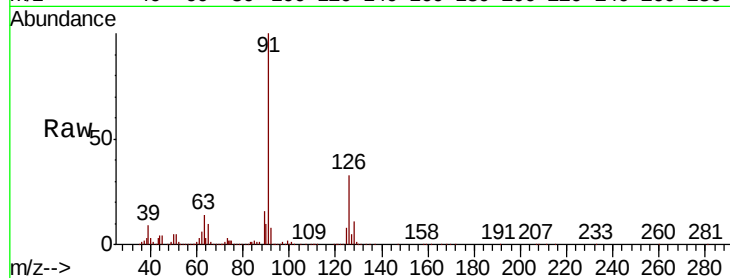
VSTDIC020

Tot Ion: 91 Resp: 340065

Ion Ratio Lower Upper

91 100

126 32.6 15.6 46.8



#80

1,3,5-Trimethylbenzene

Concen: 19.786 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062171.D

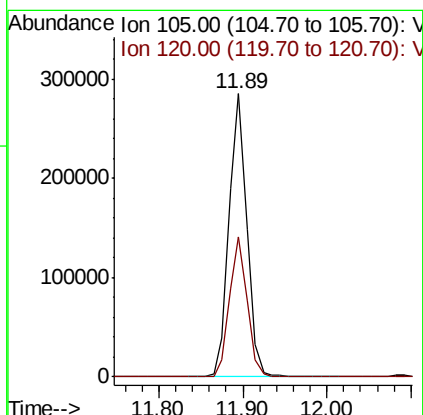
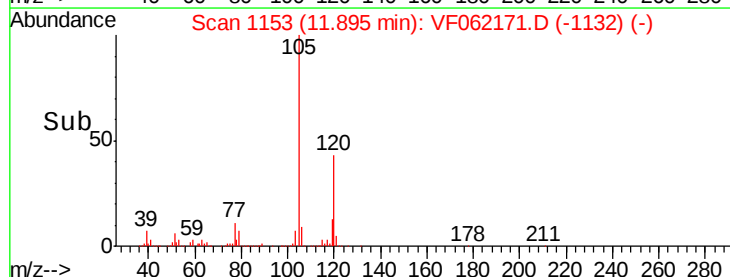
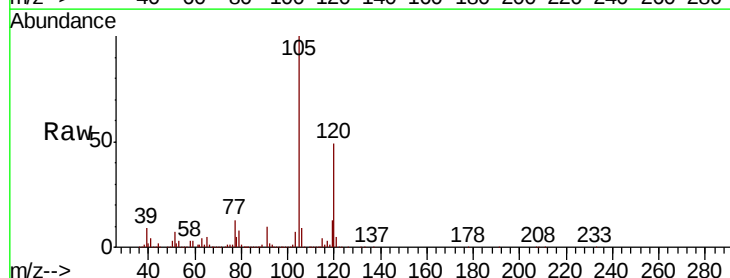
Acq: 16 Apr 2019 11:47

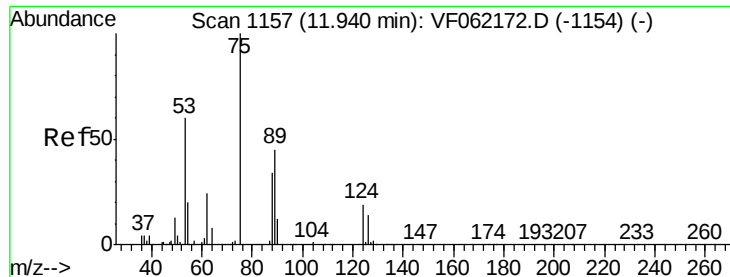
Tgt Ion: 105 Resp: 417915

Ion Ratio Lower Upper

105 100

120 49.4 25.9 77.7





#81

trans-1,4-Dichloro-2-butene

Concen: 24.512 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

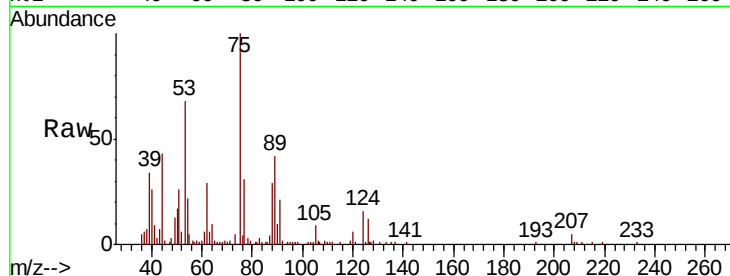
Tot Ion: 75 Resp: 40320

Ion Ratio Lower Upper

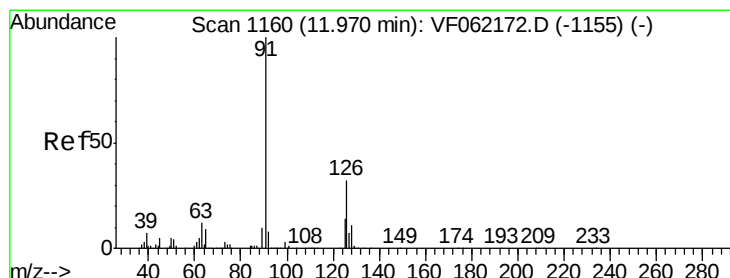
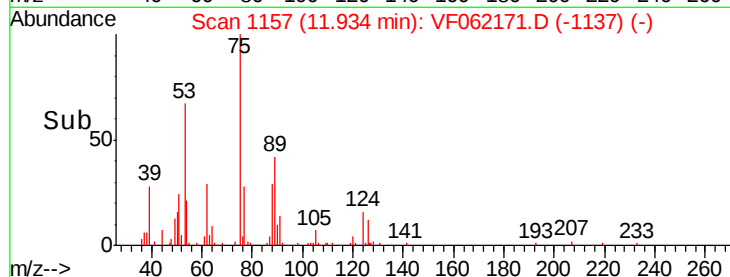
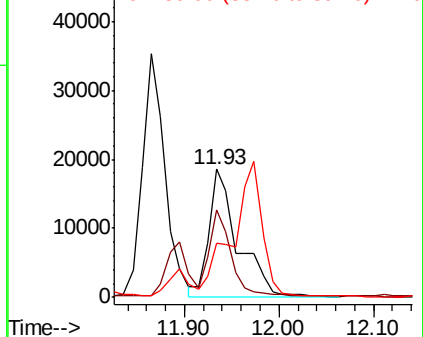
75 100

53 67.9 53.4 80.0

89 42.1 38.7 58.1



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 19.559 ug/l

RT: 11.97 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VF062171.D

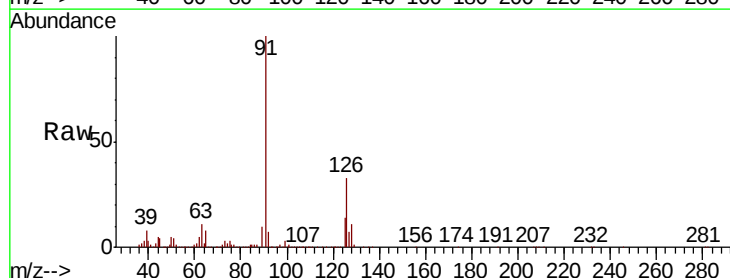
Acq: 16 Apr 2019 11:47

Tgt Ion: 91 Resp: 325242

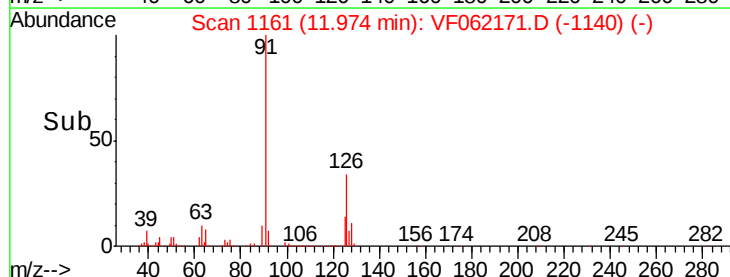
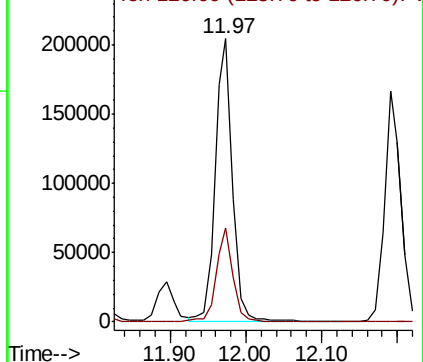
Ion Ratio Lower Upper

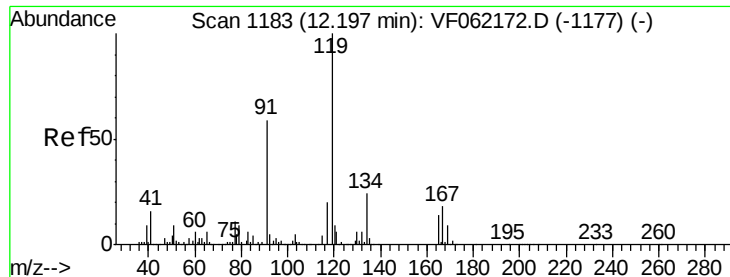
91 100

126 33.3 15.9 47.7



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

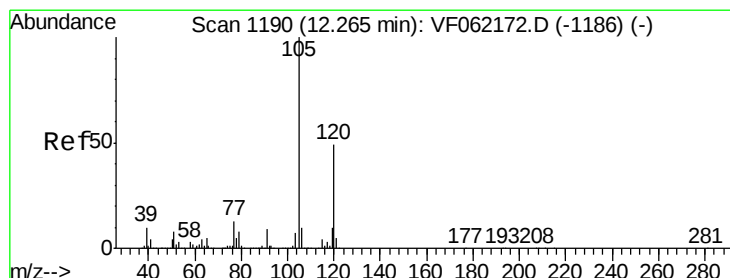
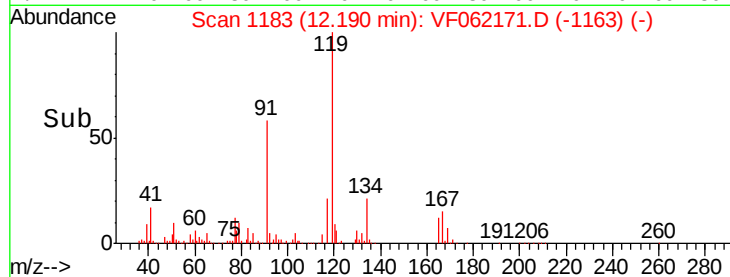
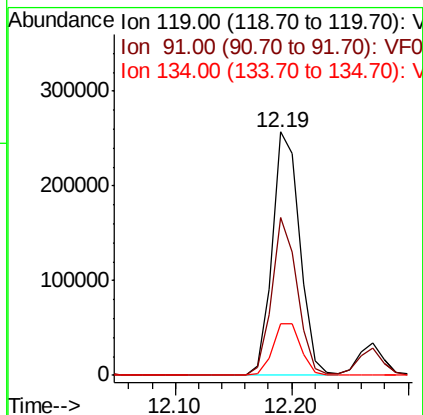
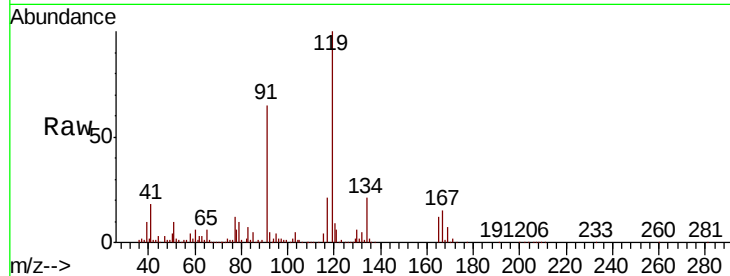




#83
 tert-Butylbenzene
 Concen: 20.013 ug/l
 RT: 12.19 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

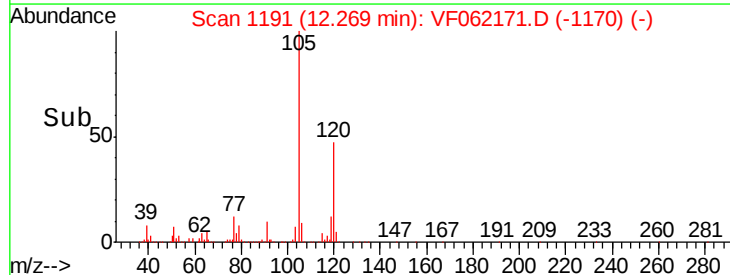
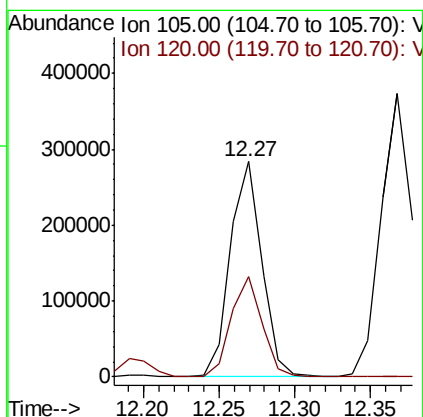
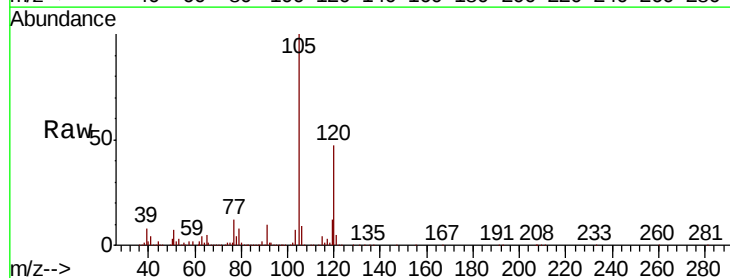
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

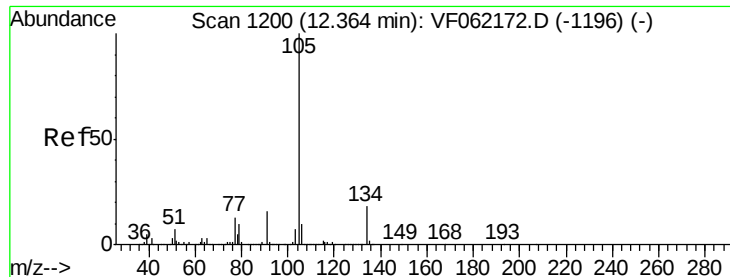
Tot Ion	Ratio	Lower	Upper
119	100		
91	64.8	29.5	88.5
134	21.3	12.0	36.1



#84
 1,2,4-Trimethylbenzene
 Concen: 20.104 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.7	74.1





#85

sec-Butylbenzene

Concen: 19.688 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

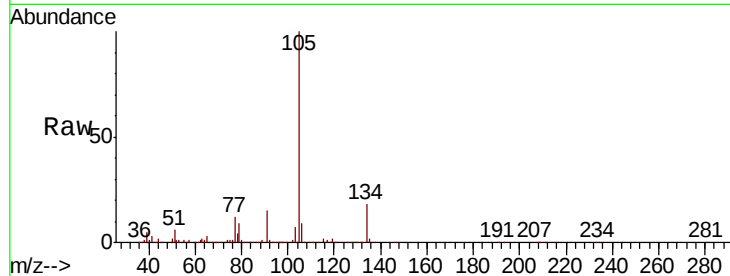
VSTDIC020

Tot Ion:105 Resp: 542970

Ion Ratio Lower Upper

105 100

134 18.0 9.0 27.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.37

400000

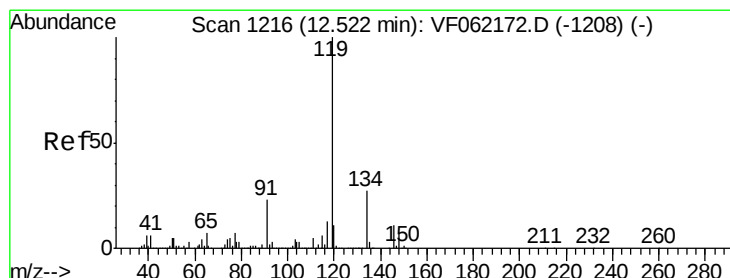
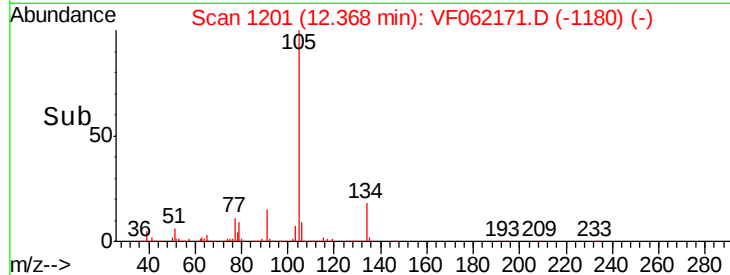
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.971 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

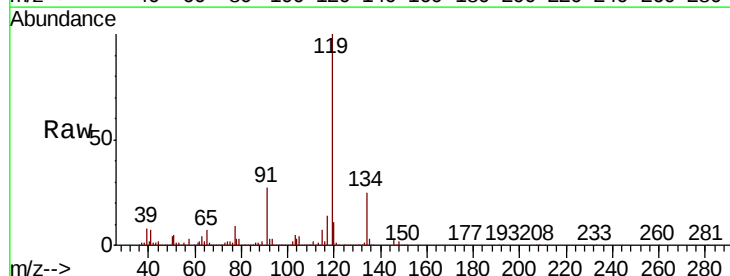
Tgt Ion:119 Resp: 469225

Ion Ratio Lower Upper

119 100

134 25.4 13.5 40.5

91 26.5 11.5 34.5



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

12.52

400000

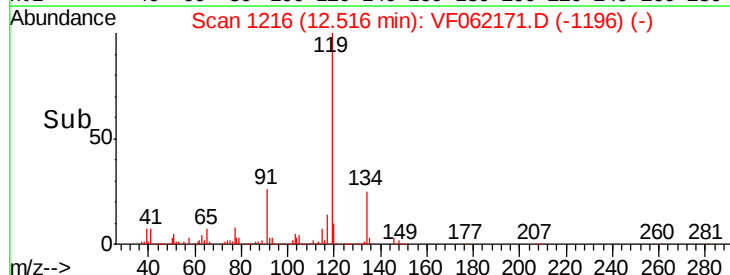
300000

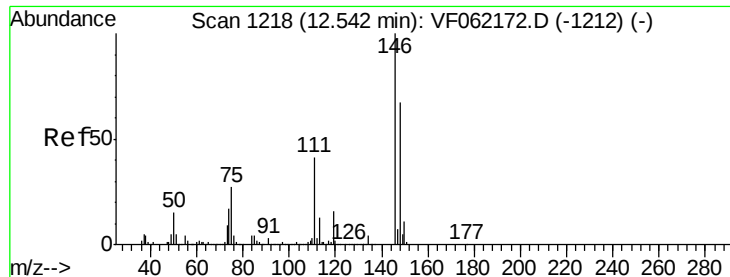
200000

100000

0

Time-->

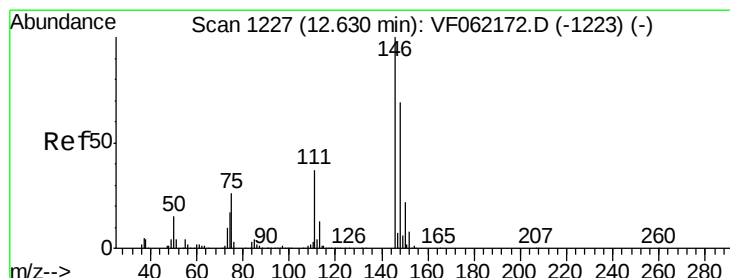
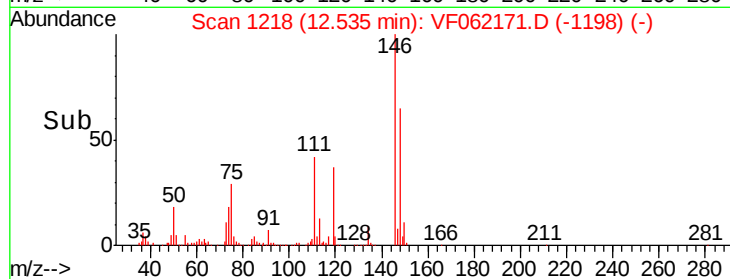
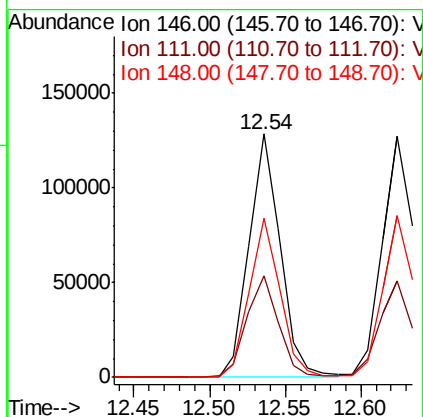
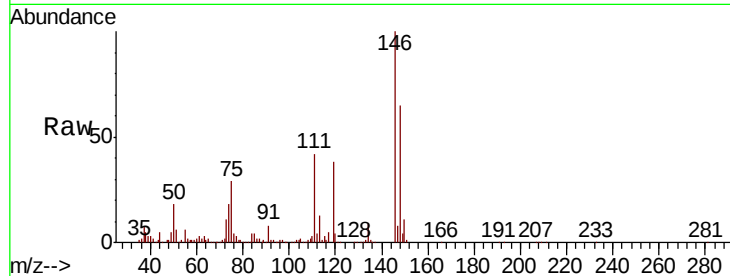




#87
 1,3-Dichlorobenzene
 Concen: 19.344 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

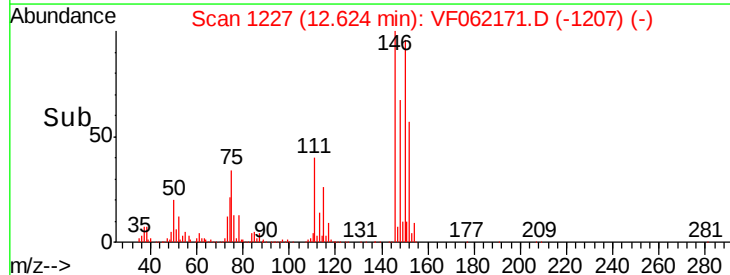
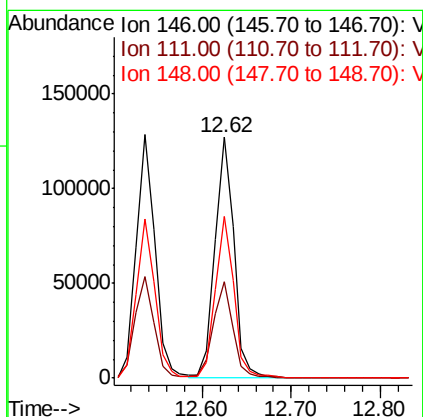
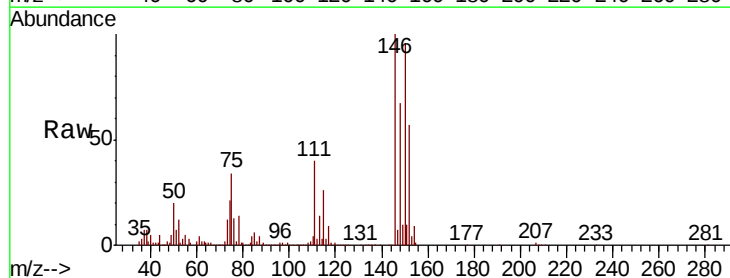
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

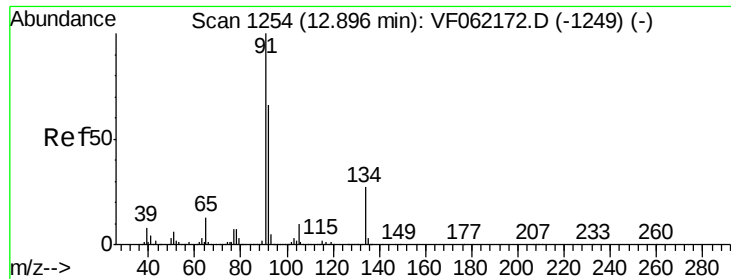
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.5	61.6
148	65.5	33.6	100.8



#88
 1,4-Dichlorobenzene
 Concen: 20.335 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	18.6	55.6
148	66.9	34.3	102.8





#89

n-Butylbenzene

Concen: 20.545 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

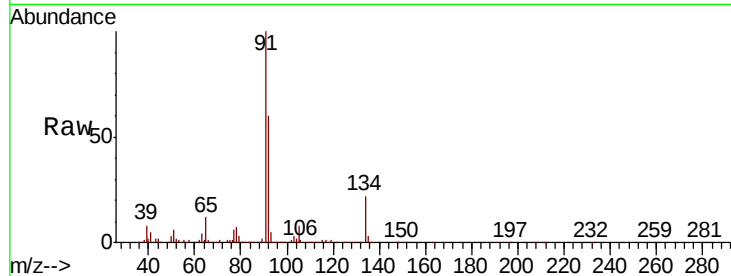
Tot Ion: 91 Resp: 483127

Ion	Ratio	Lower	Upper
91	100		
92	60.2	32.9	98.6
134	21.7	13.4	40.2

91 100

92 60.2 32.9 98.6

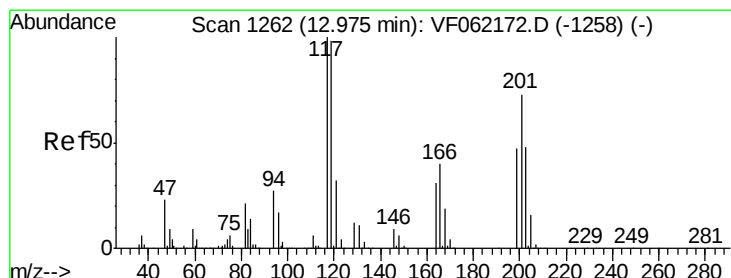
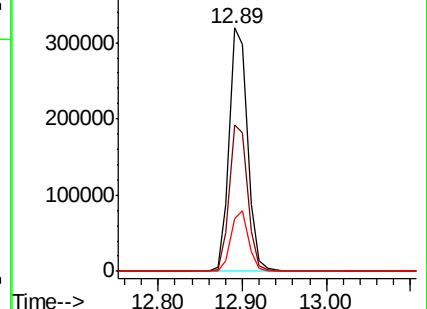
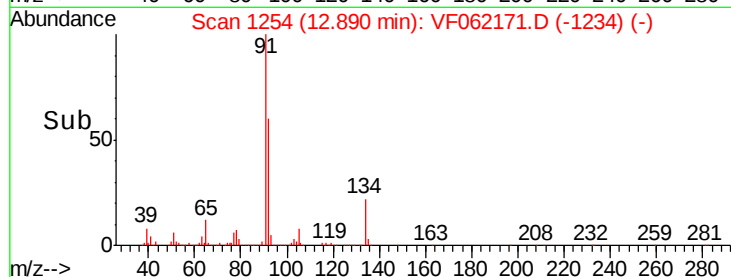
134 21.7 13.4 40.2



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: 19.426 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VF062171.D

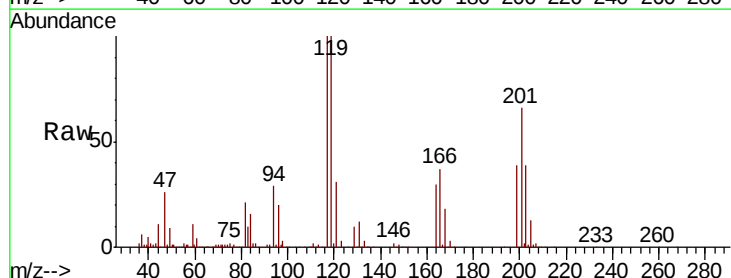
Acq: 16 Apr 2019 11:47

Tgt Ion: 117 Resp: 111804

Ion	Ratio	Lower	Upper
117	100		
201	65.7	36.7	110.1

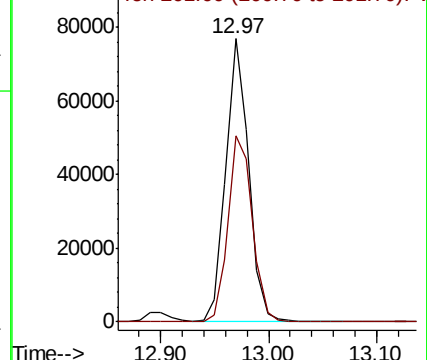
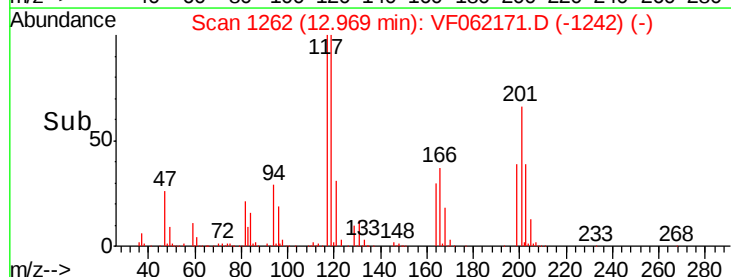
117 100

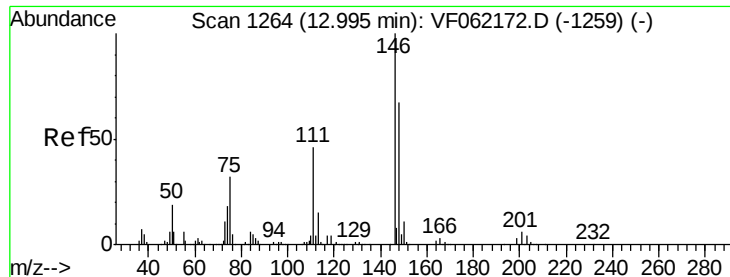
201 65.7 36.7 110.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 19.705 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

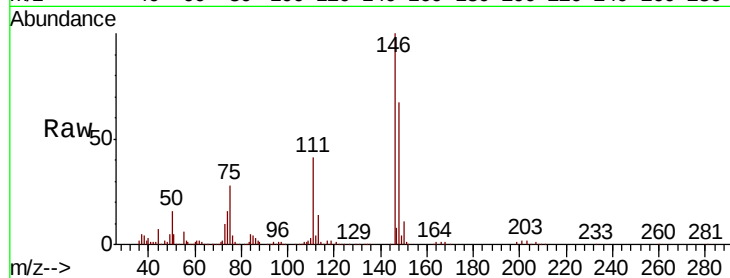
Tot Ion:146 Resp: 182224

Ion Ratio Lower Upper

146 100

111 40.7 22.9 68.8

148 66.7 33.6 100.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

150000

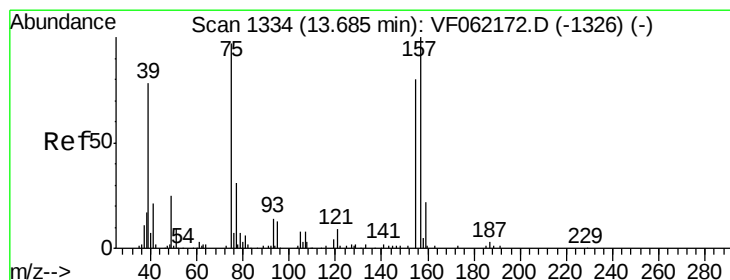
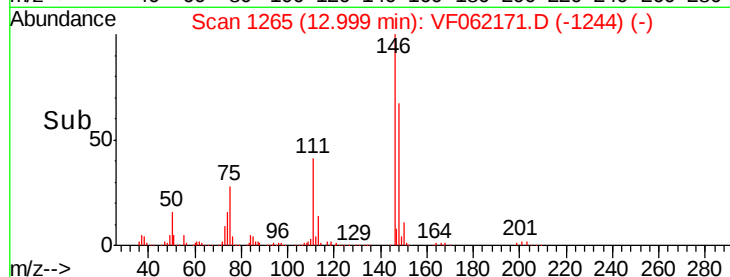
100000

50000

0

13.00

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.725 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

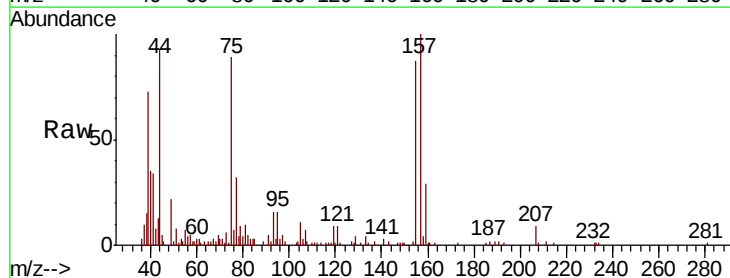
Tgt Ion: 75 Resp: 14402

Ion Ratio Lower Upper

75 100

155 98.0 41.0 123.0

157 112.1 51.3 154.0



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

15000

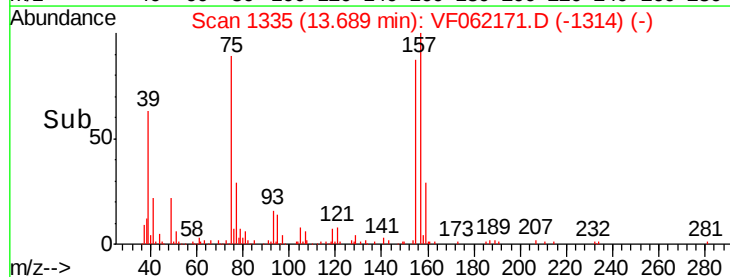
10000

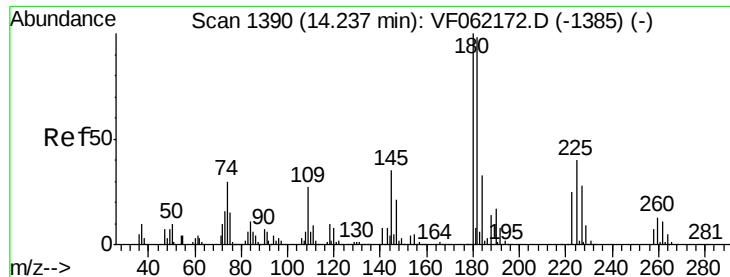
5000

0

13.69

Time-->

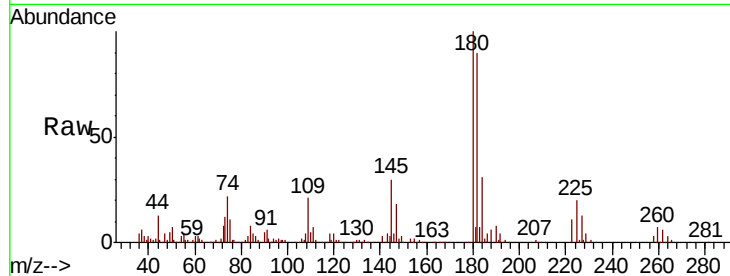




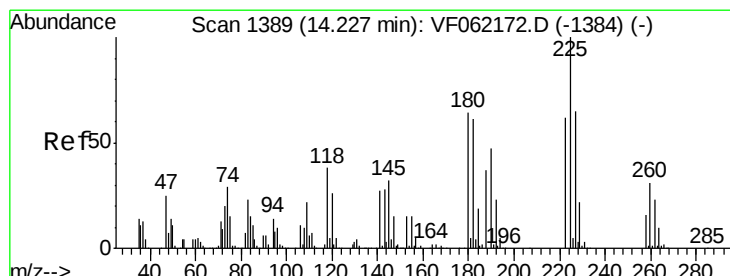
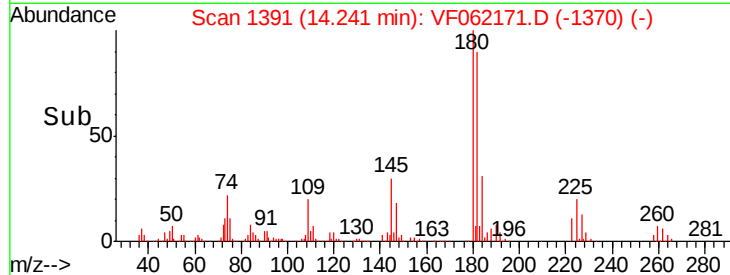
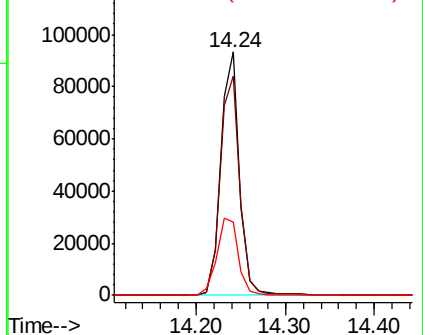
#93
 1,2,4-Trichlorobenzene
 Concen: 19.862 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion:180 Resp: 137950
 Ion Ratio Lower Upper
 180 100
 182 90.2 48.8 146.4
 145 30.3 17.3 52.0

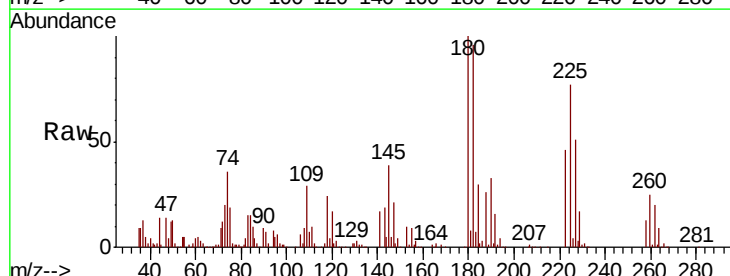


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

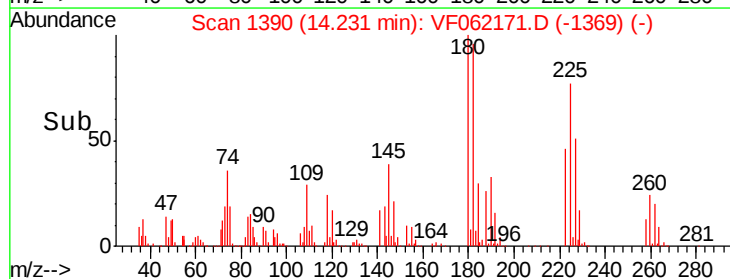
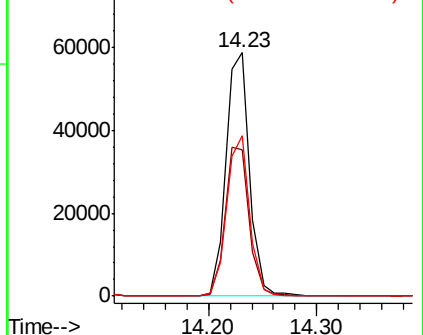


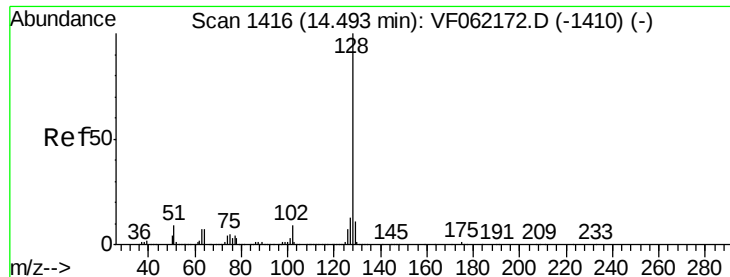
#94
 Hexachlorobutadiene
 Concen: 19.693 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062171.D
 Acq: 16 Apr 2019 11:47

Tgt Ion:225 Resp: 89135
 Ion Ratio Lower Upper
 225 100
 223 60.2 30.9 92.7
 227 65.8 32.3 96.9



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.237 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

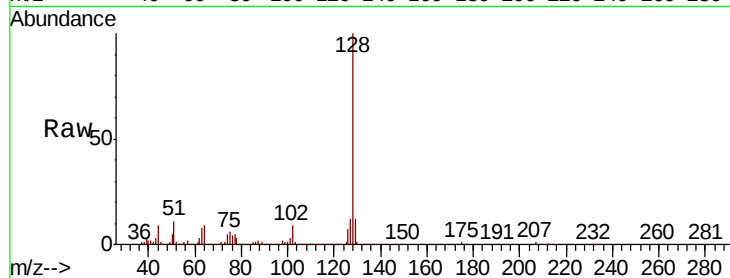
Tot Ion:128 Resp: 233424

Ion Ratio Lower Upper

128 100

127 12.2 10.3 15.5

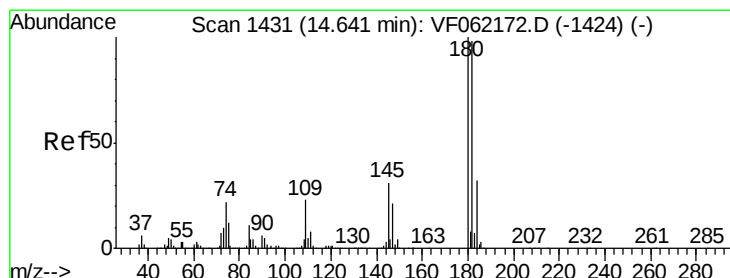
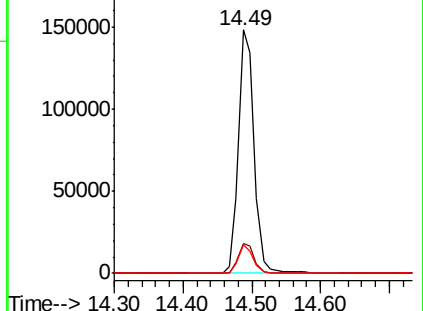
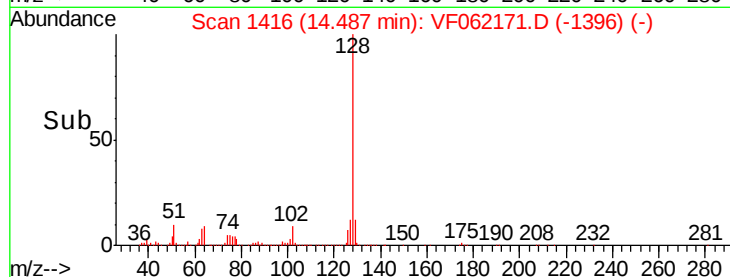
129 11.5 9.2 13.8



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: 19.550 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VF062171.D

Acq: 16 Apr 2019 11:47

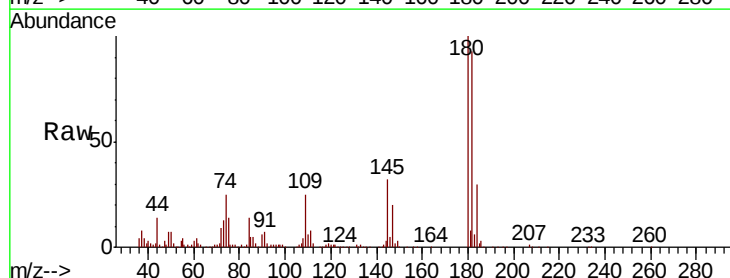
Tgt Ion:180 Resp: 126504

Ion Ratio Lower Upper

180 100

182 92.8 49.0 147.2

145 32.3 15.4 46.2



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

