

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062498.D
 Acq On : 12 May 2019 12:57
 Operator : FY/SY
 Sample : VF0512SBSD01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 12:26:07 PM

Quant Time: May 13 05:17:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	319803	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	426013	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	359964	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	238636	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	137444	45.48	ug/l	0.03
Spiked Amount	50.000		Recovery	=	90.96%	
35) Dibromofluoromethane	4.33	113	179727	52.95	ug/l	0.02
Spiked Amount	50.000		Recovery	=	105.90%	
50) Toluene-d8	7.73	98	389910	47.46	ug/l	0.02
Spiked Amount	50.000		Recovery	=	94.92%	
62) 4-Bromofluorobenzene	11.50	95	181586	48.99	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	86395	23.342	ug/l	95
3) Chloromethane	1.14	50	50597	20.728	ug/l	98
4) Vinyl Chloride	1.19	62	53997	22.177	ug/l	94
5) Bromomethane	1.40	94	42954	21.973	ug/l	91
6) Chloroethane	1.45	64	28768	23.501	ug/l	95
7) Trichlorofluoromethane	1.56	101	122856	24.319	ug/l	99
8) Diethyl Ether	1.71	74	14276	18.676	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.92	101	67122	23.273	ug/l	95
10) Methyl Iodide	1.99	142	117047	24.626	ug/l #	96
11) Tert butyl alcohol	2.70	59	17503	102.470	ug/l #	91
12) 1,1-Dichloroethene	1.88	96	54090	22.060	ug/l	91
13) Acrolein	2.11	56	11325	94.097	ug/l	91
14) Allyl chloride	2.21	41	70755	32.668	ug/l	87
15) Acrylonitrile	3.09	53	37400	115.589	ug/l	96
16) Acetone	2.35	43	60663	99.223	ug/l	98
17) Carbon Disulfide	1.92	76	118154	22.100	ug/l	99
18) Methyl Acetate	2.47	43	23228	18.884	ug/l	99
19) Methyl tert-butyl Ether	2.56	73	103365	20.422	ug/l	99
20) Methylene Chloride	2.29	84	49470m	22.365	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	51908	22.220	ug/l	99
22) Diisopropyl ether	2.94	45	141449	20.896	ug/l	96
23) Vinyl Acetate	3.36	43	310129	102.793	ug/l	100
24) 1,1-Dichloroethane	3.02	63	96366	23.554	ug/l	96
25) 2-Butanone	4.54	43	69844	90.931	ug/l #	83
26) 2,2-Dichloropropane	3.79	77	65329	28.594	ug/l	98
27) cis-1,2-Dichloroethene	3.66	96	65787	22.529	ug/l	96
28) Bromochloromethane	3.92	49	35565	19.168	ug/l #	99
29) Tetrahydrofuran	4.29	42	33899	96.027	ug/l	95
30) Chloroform	4.07	83	129723	23.470	ug/l	92
31) Cyclohexane	3.90	56	74357	22.770	ug/l	98
32) 1,1,1-Trichloroethane	4.32	97	119153	25.153	ug/l	97
36) 1,1-Dichloropropene	4.49	75	79646	21.764	ug/l	99
37) Ethyl Acetate	4.33	43	29999	17.641	ug/l #	97
38) Carbon Tetrachloride	4.21	117	97128m	24.151	ug/l	

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	74566	20.316	ug/l	98
40) Benzene	4.85	78	172395	21.392	ug/l	95
41) Methacrylonitrile	4.95	41	14180	16.160	ug/l #	86
42) 1,2-Dichloroethane	5.14	62	68663	20.372	ug/l	97
43) Isopropyl Acetate	7.13	43	30684	18.434	ug/l #	99
44) Trichloroethene	5.71	130	62867	21.236	ug/l	91
45) 1,2-Dichloropropane	6.42	63	41973	22.995	ug/l	99
46) Dibromomethane	6.28	93	32863	21.715	ug/l	95
47) Bromodichloromethane	6.57	83	80521	21.281	ug/l	99
48) Methyl methacrylate	6.89	41	21272	18.083	ug/l	92
49) 1,4-Dioxane	6.89	88	4261	343.619	ug/l	90
51) 4-Methyl-2-Pentanone	8.42	43	125406	99.425	ug/l	100
52) Toluene	7.79	92	110685	22.264	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	59904	20.932	ug/l	95
54) cis-1,3-Dichloropropene	7.48	75	73667	22.118	ug/l	94
55) 1,1,2-Trichloroethane	8.65	97	33400	21.163	ug/l	96
56) Ethyl methacrylate	8.77	69	28605	17.170	ug/l	94
57) 1,3-Dichloropropane	9.01	76	49919	20.940	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.46	63	46188	92.218	ug/l	100
59) 2-Hexanone	9.64	43	87076	99.820	ug/l	97
60) Dibromochloromethane	8.88	129	53661	20.789	ug/l	96
61) 1,2-Dibromoethane	9.15	107	38934	20.990	ug/l	97
64) Tetrachloroethene	8.33	164	63130	21.603	ug/l	96
65) Chlorobenzene	9.94	112	133263	22.375	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	66058	21.986	ug/l	99
67) Ethyl Benzene	10.04	91	240856	23.094	ug/l	100
68) m/p-Xylenes	10.27	106	179188	46.567	ug/l	100
69) o-Xylene	10.83	106	94311	22.682	ug/l	96
70) Styrene	10.90	104	138223	22.181	ug/l	99
71) Bromoform	10.89	173	32328	19.640	ug/l #	99
73) Isopropylbenzene	11.23	105	306471	21.663	ug/l	100
74) N-amyl acetate	11.46	43	60502	19.920	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.78	83	42421	19.151	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	33013	19.534	ug/l #	100
77) Bromobenzene	11.59	156	73466	19.787	ug/l	98
78) n-propylbenzene	11.68	91	321945	21.375	ug/l	100
79) 2-Chlorotoluene	11.81	91	197280	21.064	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	273692	22.072	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	11809m	18.590	ug/l	
82) 4-Chlorotoluene	11.98	91	194180	20.992	ug/l	100
83) tert-Butylbenzene	12.20	119	275848	21.167	ug/l	98
84) 1,2,4-Trimethylbenzene	12.28	105	257005	21.179	ug/l	98
85) sec-Butylbenzene	12.38	105	337745	21.293	ug/l	99
86) p-Isopropyltoluene	12.53	119	326183	22.133	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	143464	21.157	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	140365	21.447	ug/l	98
89) n-Butylbenzene	12.90	91	295062	22.504	ug/l	97
90) Hexachloroethane	12.98	117	73357	19.936	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	138508	21.103	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.70	75	8686	17.503	ug/l	98

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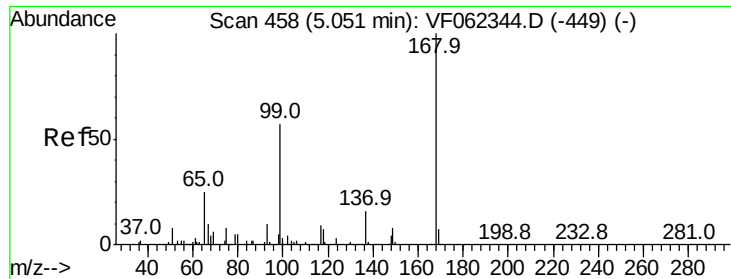
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	124262	21.107	ug/l	98
94) Hexachlorobutadiene	14.23	225	97591	22.241	ug/l	96
95) Naphthalene	14.50	128	164890	18.630	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	115817	20.307	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion:168 Resp: 319803

Ion Ratio Lower Upper

168 100

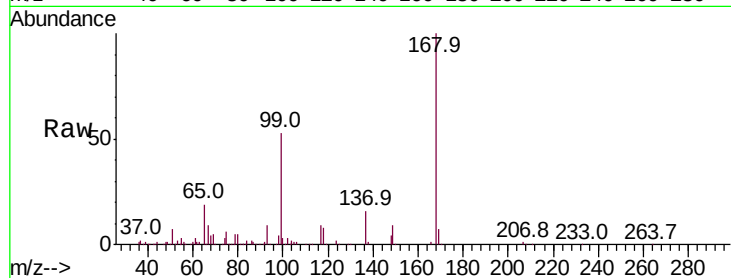
99 52.8 45.9 68.9

Manual Integrations

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5/13/2019 12:26:07 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

120000

100000

80000

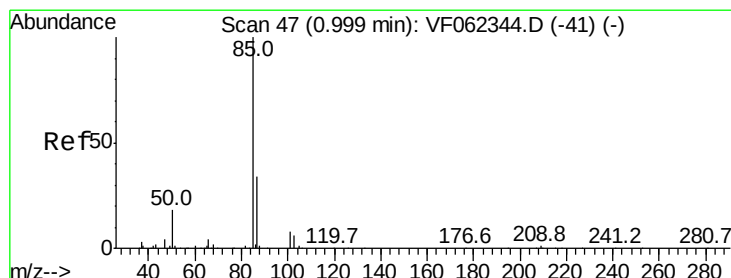
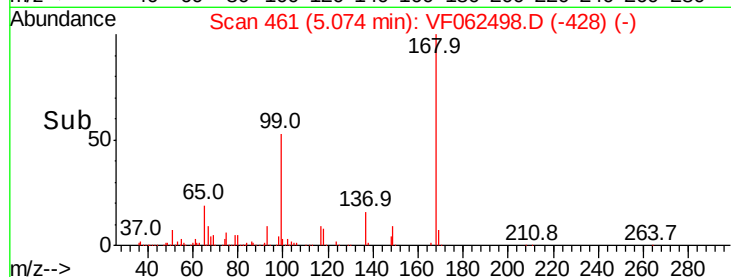
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.342 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062498.D

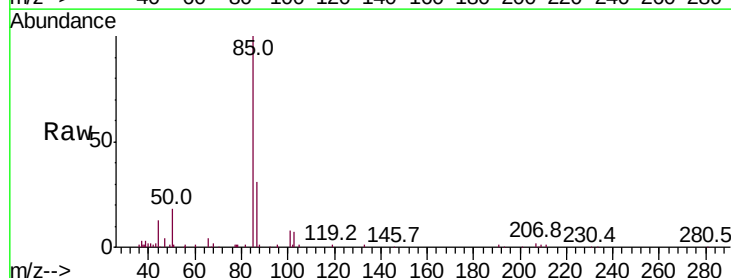
Acq: 12 May 2019 12:57

Tgt Ion: 85 Resp: 86395

Ion Ratio Lower Upper

85 100

87 30.6 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

30000

25000

20000

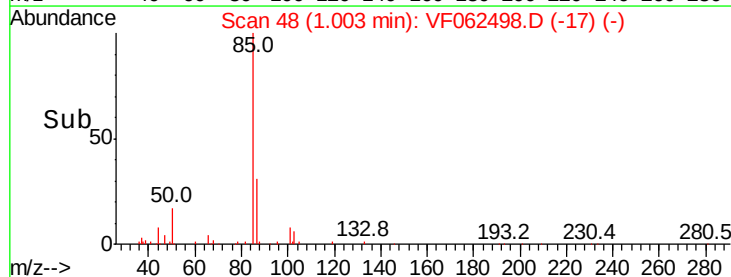
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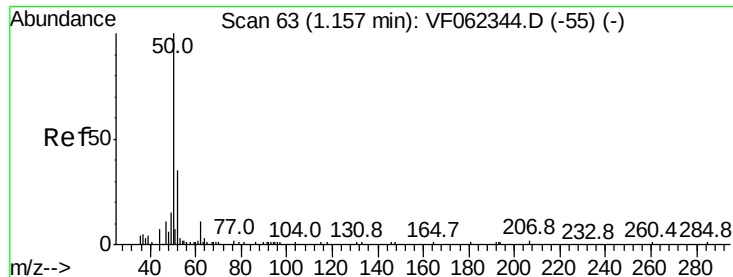
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.728 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.02 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 50 Resp: 50597

Ion Ratio Lower Upper

50 100

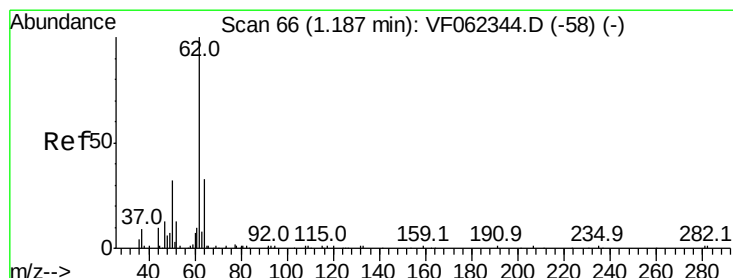
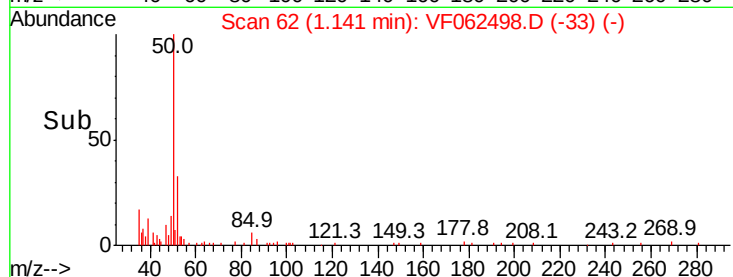
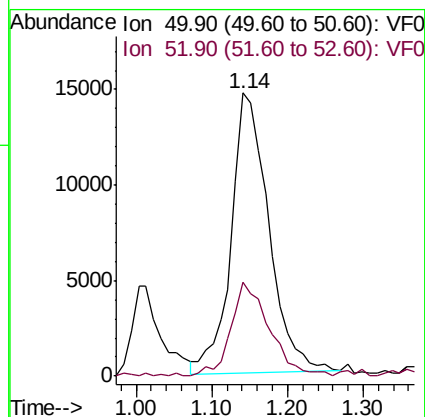
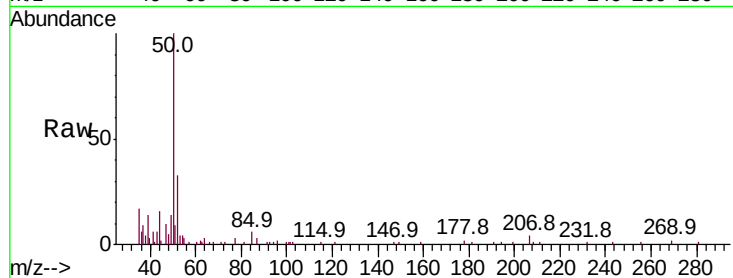
52 33.7 26.1 39.1

Manual Integrations

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5/13/2019 12:26:07 PM



#4

Vinyl Chloride

Concen: 22.177 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062498.D

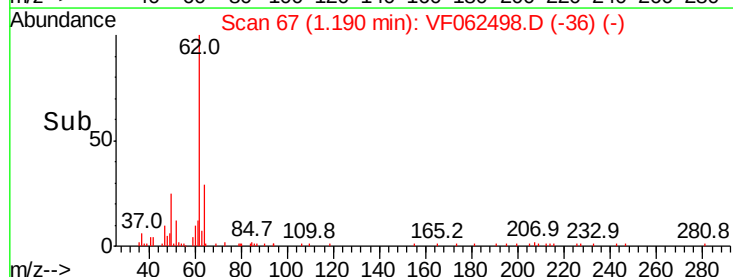
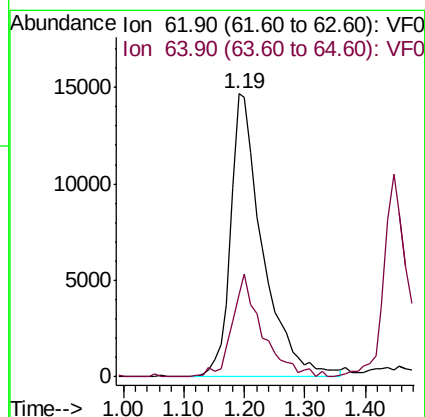
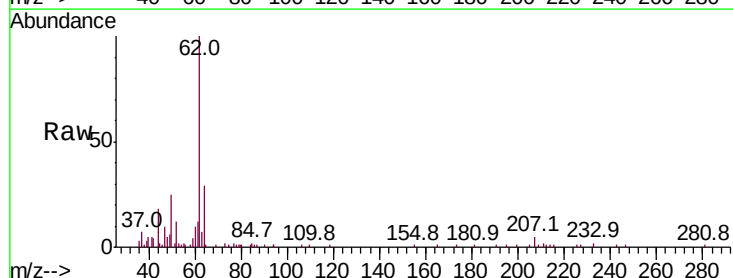
Acq: 12 May 2019 12:57

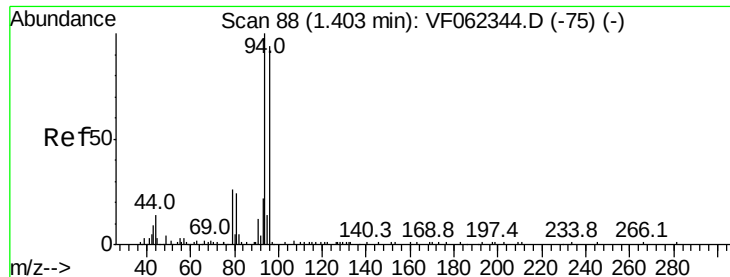
Tgt Ion: 62 Resp: 53997

Ion Ratio Lower Upper

62 100

64 29.2 26.1 39.1





#5

Bromomethane

Concen: 21.973 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 94 Resp: 42954

Ion Ratio Lower Upper

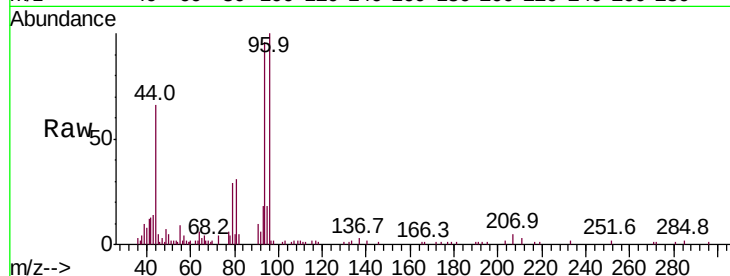
94 100

96 103.4 75.4 113.2

Manual Integrations
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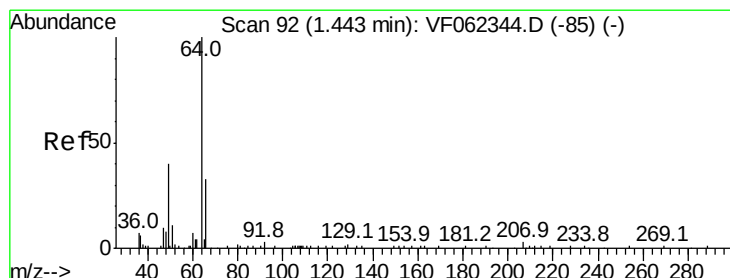
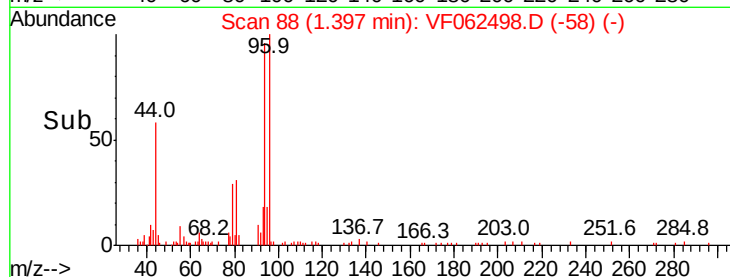
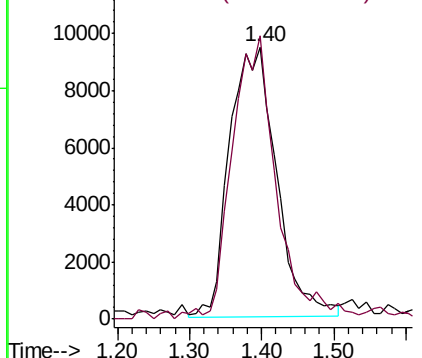
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Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 23.501 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062498.D

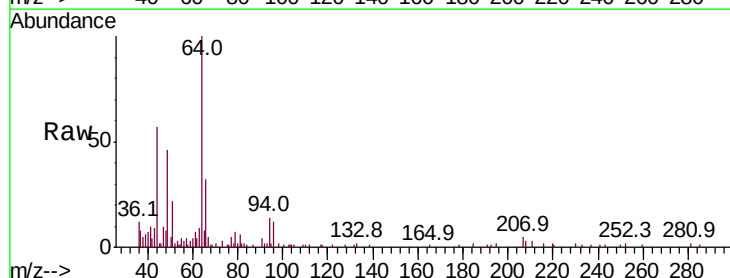
Acq: 12 May 2019 12:57

Tgt Ion: 64 Resp: 28768

Ion Ratio Lower Upper

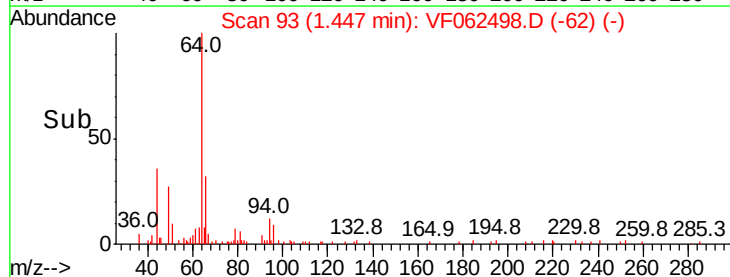
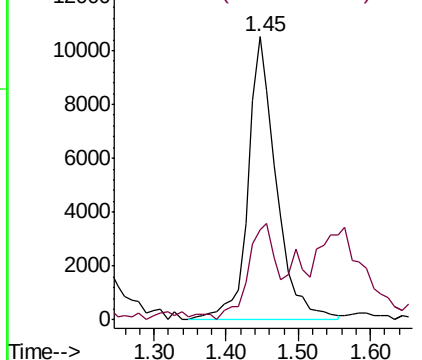
64 100

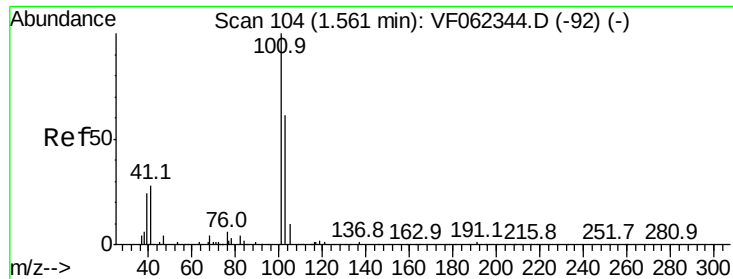
66 30.5 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0





#7

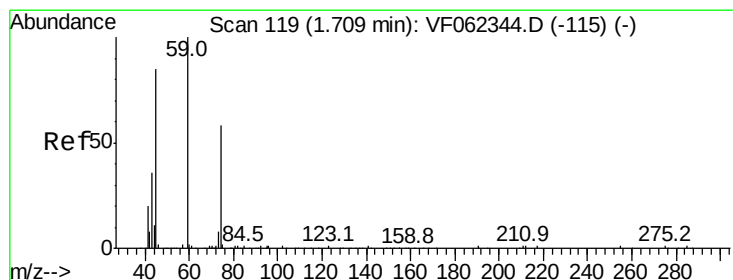
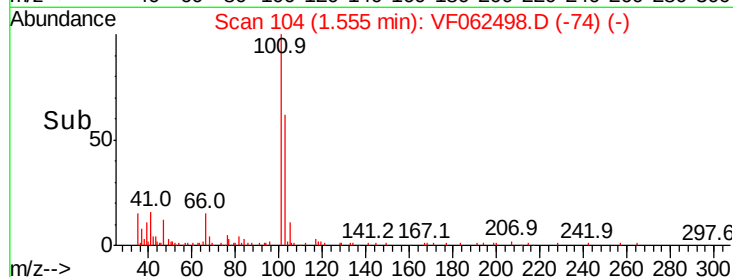
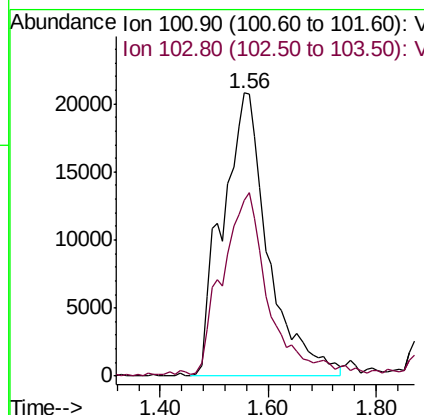
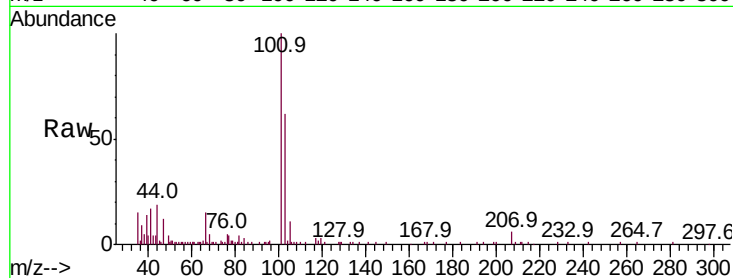
Trichlorofluoromethane
Concen: 24.319 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.01 min
Lab File: VF062498.D
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VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	122856		
103	61.4	48.5	72.7	

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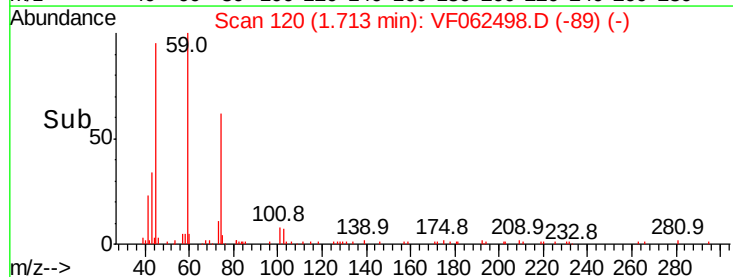
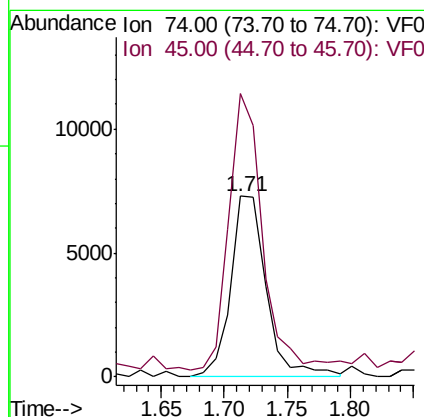
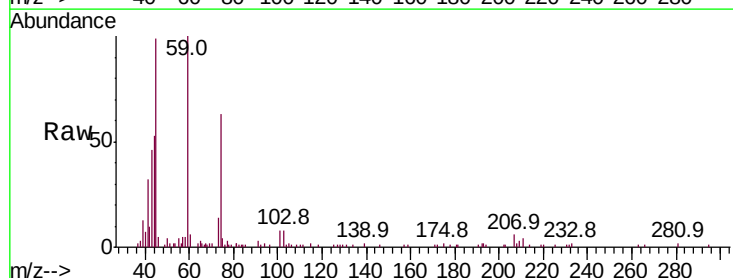
MMDadoda
5/13/2019 12:26:07 PM

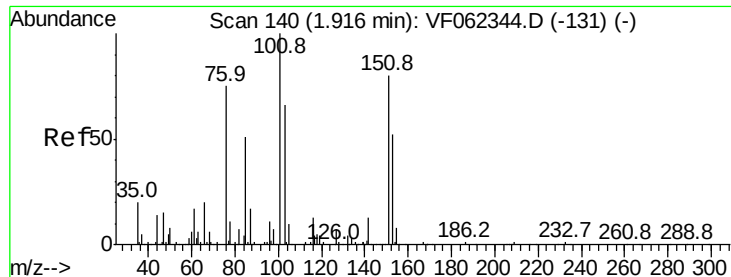


#8

Diethyl Ether
Concen: 18.676 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	14276		
45	143.5	73.9	221.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.273 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062498.D

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Instrument :

MSVOA_F

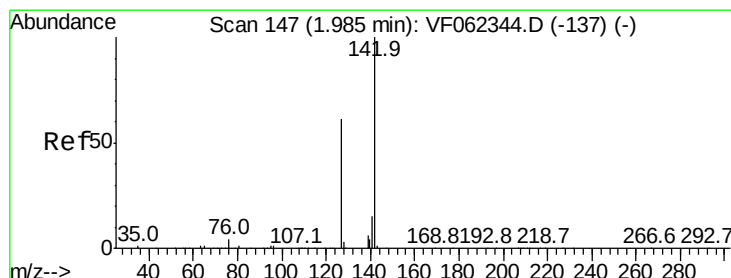
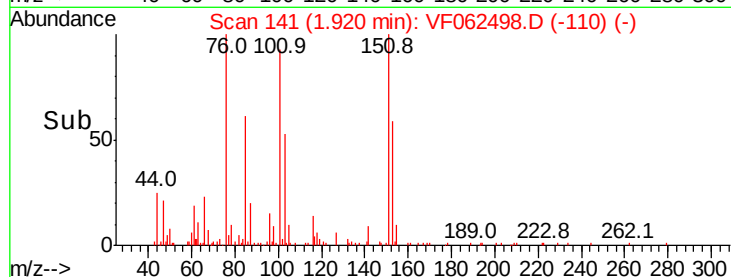
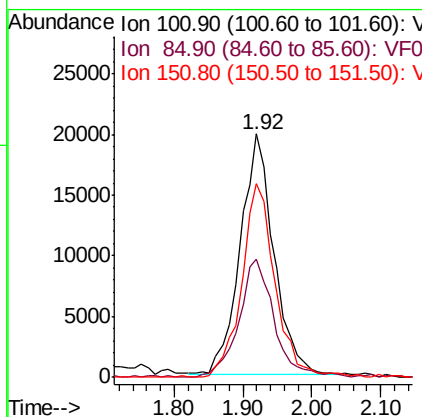
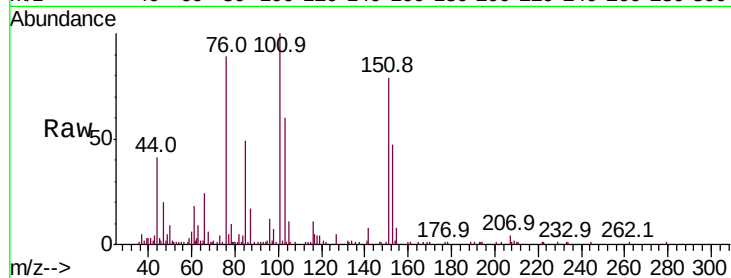
ClientSampleId :

VF0512SBSD01

Tot Ion:	101	Resp:	67122
Ion Ratio	Lower	Upper	
101	100		
85	51.9	39.5	59.3
151	80.6	59.9	89.9

Manual Integrations
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#10

Methyl Iodide

Concen: 24.626 ug/l

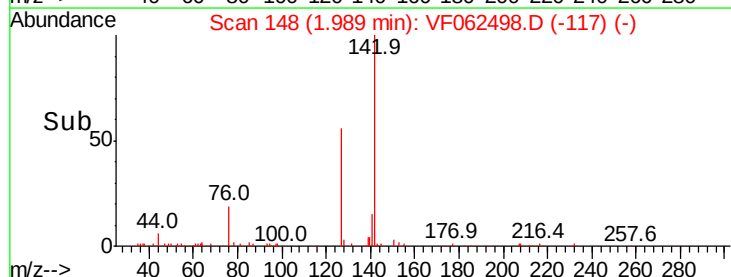
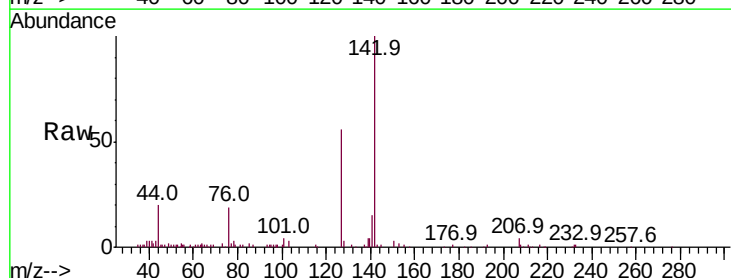
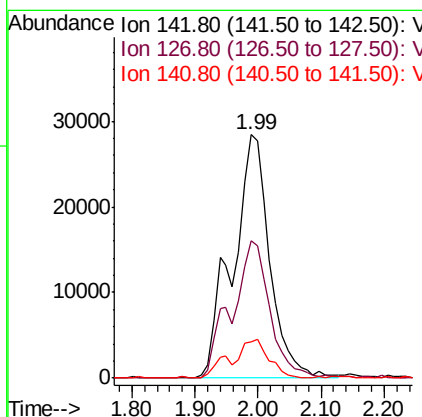
RT: 1.99 min Scan# 148

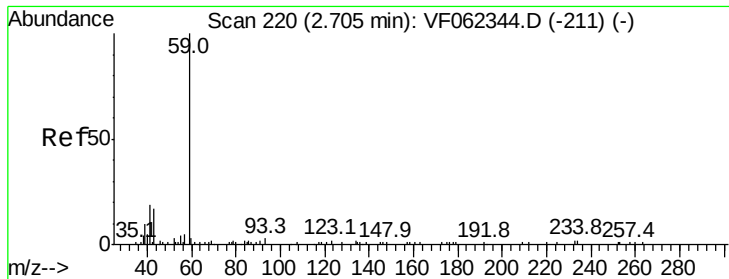
Delta R.T. 0.00 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	142	Resp:	117047
Ion Ratio	Lower	Upper	
142	100		
127	58.6	48.4	72.6
141	11.8	12.2	18.4#





#11

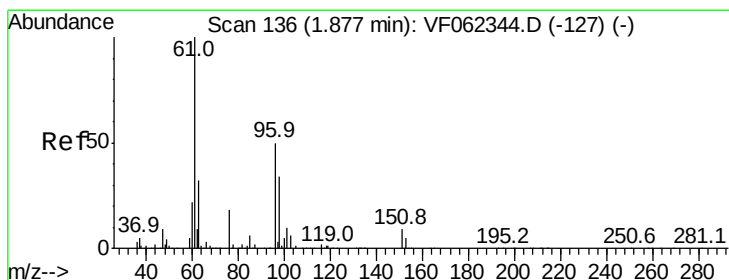
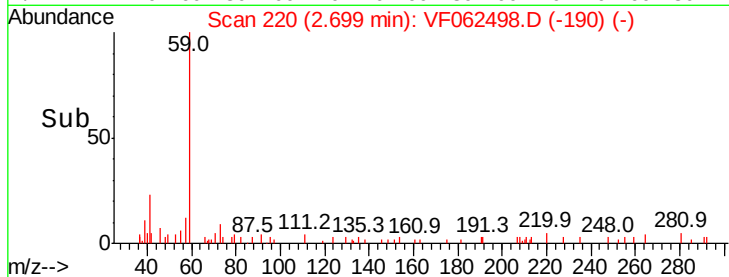
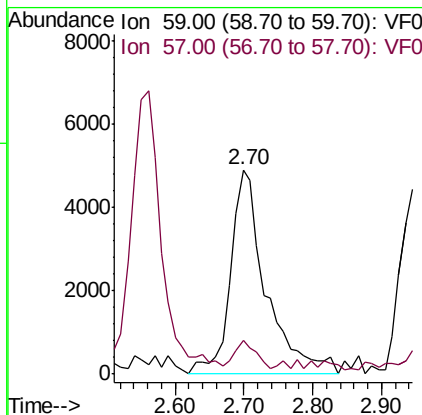
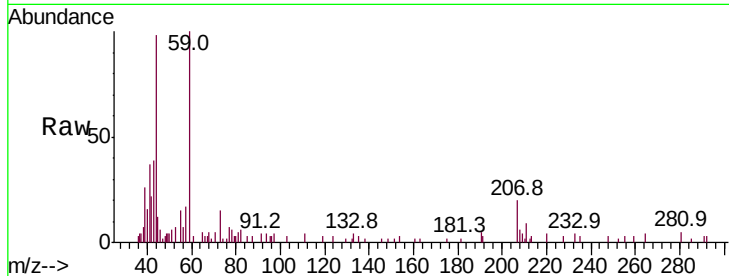
Tert butyl alcohol
 Concen: 102.470 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.1	9.3	13.9#

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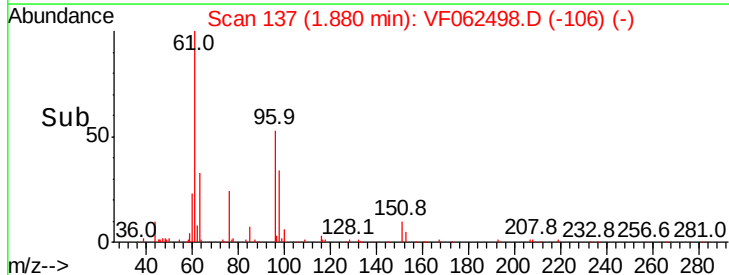
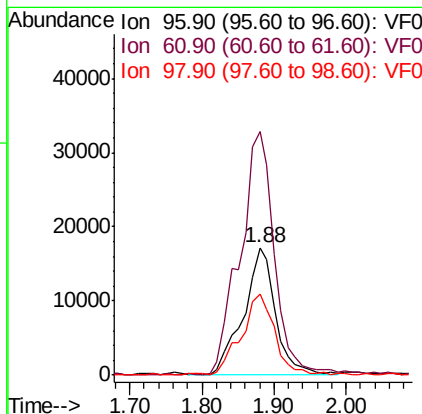
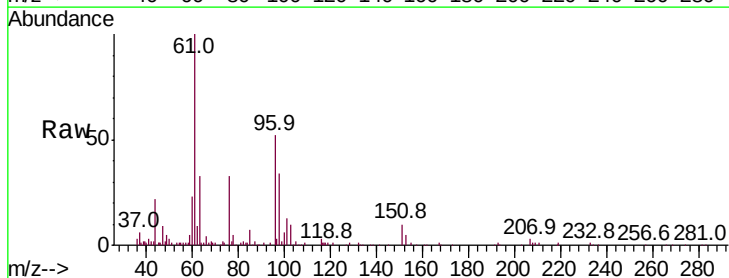
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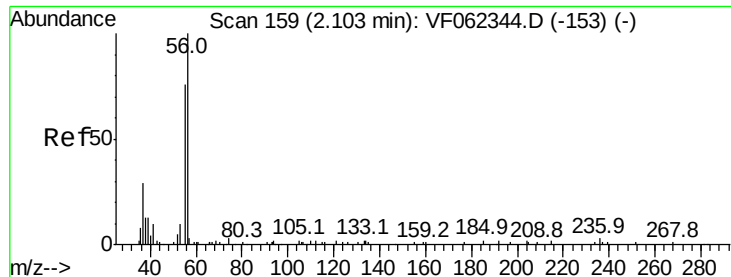


#12

1,1-Dichloroethene
 Concen: 22.060 ug/l
 RT: 1.88 min Scan# 137
 Delta R.T. 0.00 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.9	163.2	244.8
98	63.1	55.2	82.8





#13

Acrolein

Concen: 94.097 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 56 Resp: 11325

Ion Ratio Lower Upper

56 100

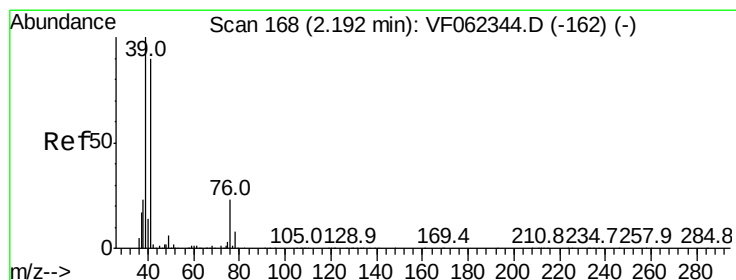
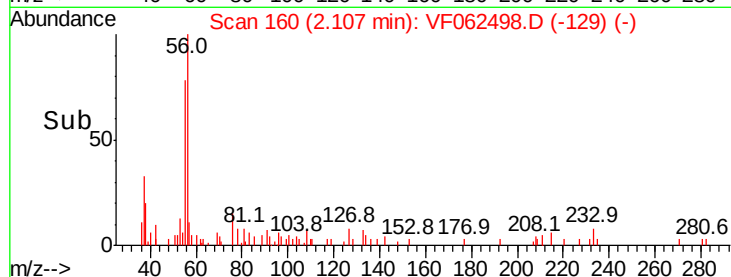
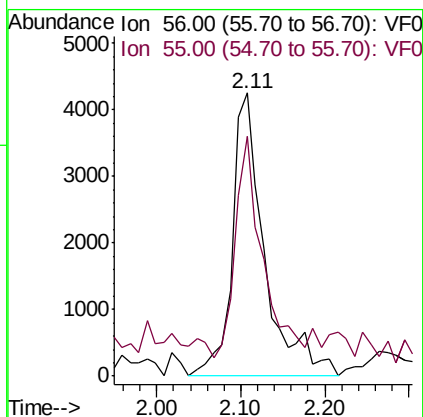
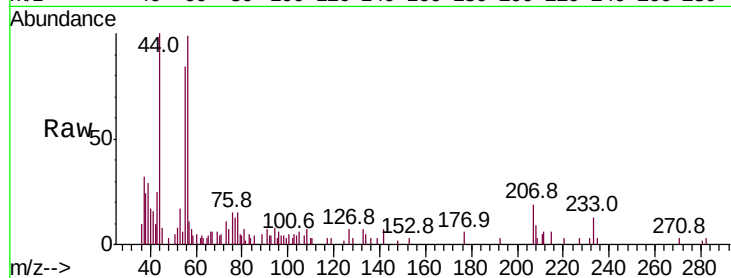
55 65.8 58.4 87.6

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#14

Allyl chloride

Concen: 32.668 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

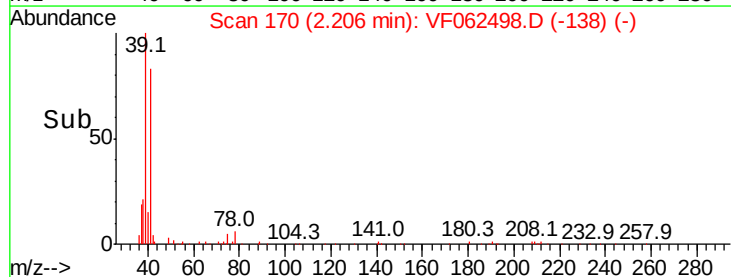
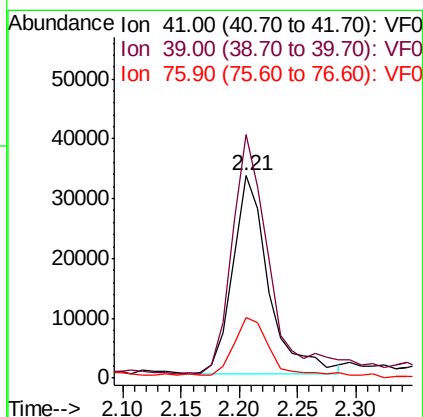
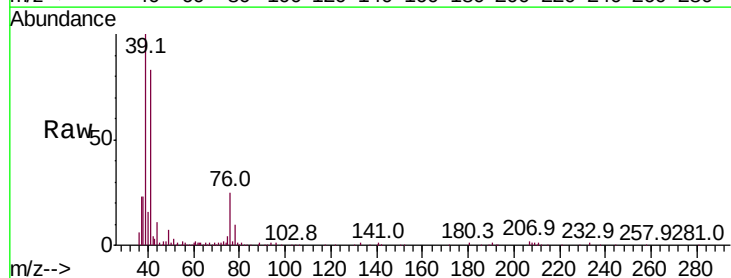
Tgt Ion: 41 Resp: 70755

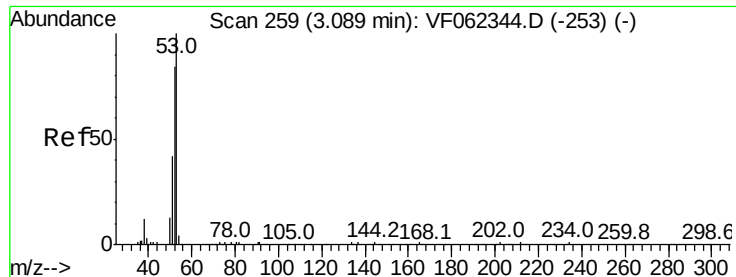
Ion Ratio Lower Upper

41 100

39 129.2 90.8 136.2

76 30.8 22.2 33.4





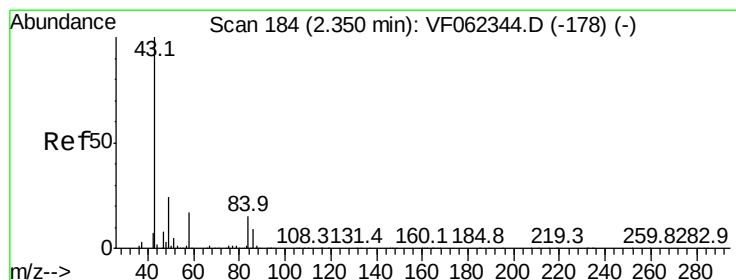
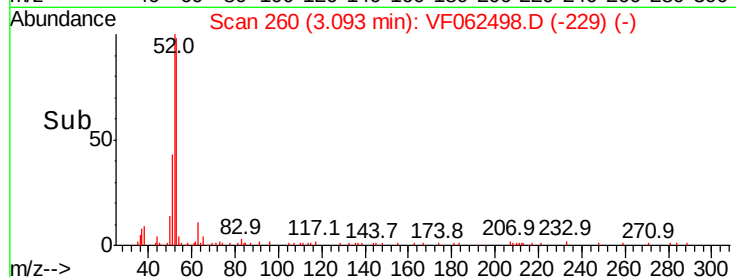
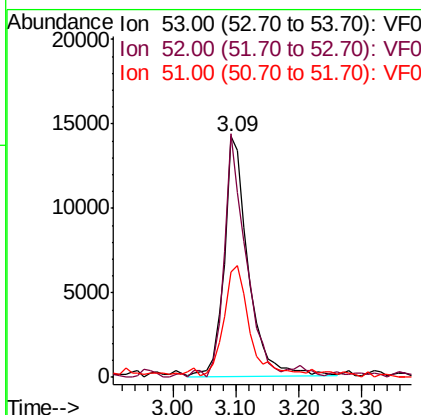
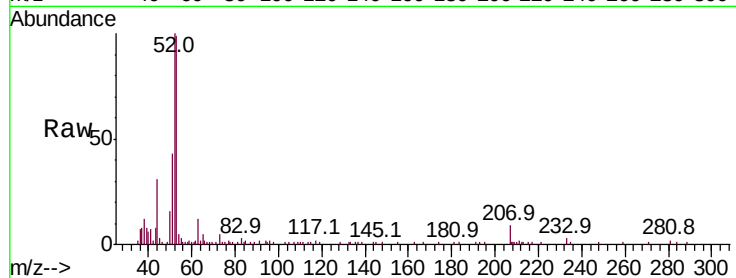
#15
 Acrylonitrile
 Concen: 115.589 ug/l
 RT: 3.09 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBSD01

Tot Ion:	53	Resp:	37400
Ion	Ratio	Lower	Upper
53	100		
52	92.3	77.2	115.8
51	47.7	40.6	61.0

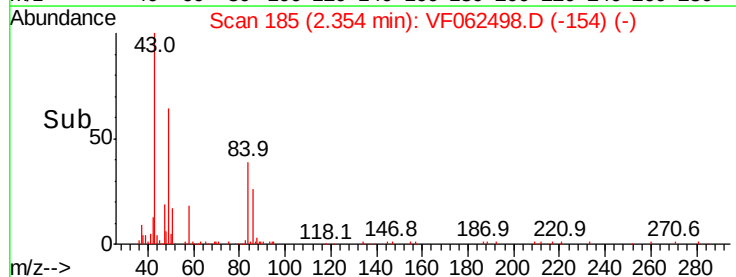
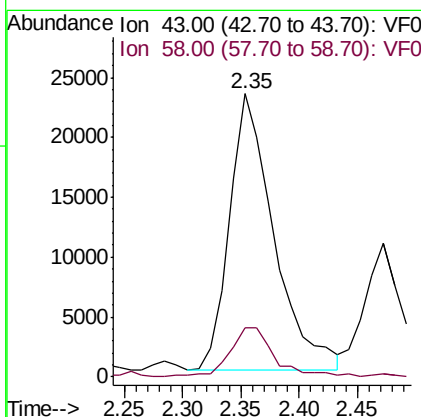
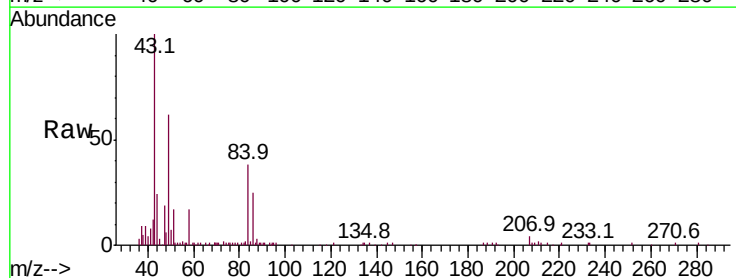
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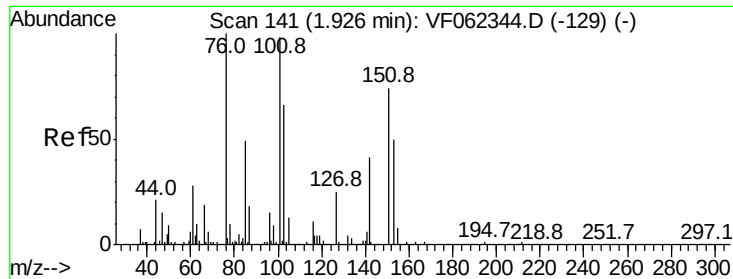
MMDadoda
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#16
 Acetone
 Concen: 99.223 ug/l
 RT: 2.35 min Scan# 185
 Delta R.T. 0.00 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion:	43	Resp:	60663
Ion	Ratio	Lower	Upper
43	100		
58	17.4	13.1	19.7





#17

Carbon Disulfide

Concen: 22.100 ug/l

RT: 1.92 min Scan# 141

Delta R.T. -0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tot Ion: 76 Resp: 118154

Ion Ratio Lower Upper

76 100

78 11.6 9.0 13.4

Instrument :

MSVOA_F

ClientSampleId :

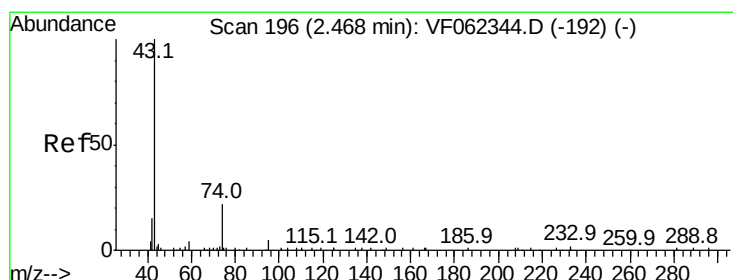
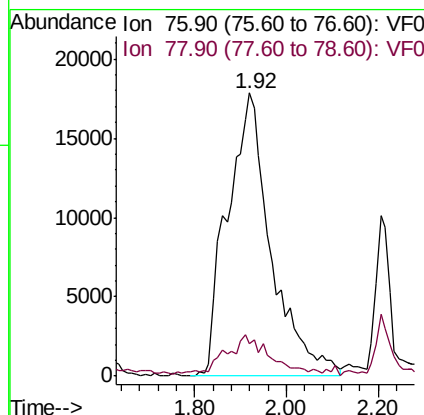
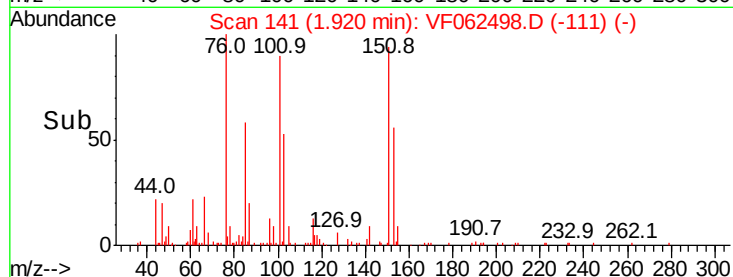
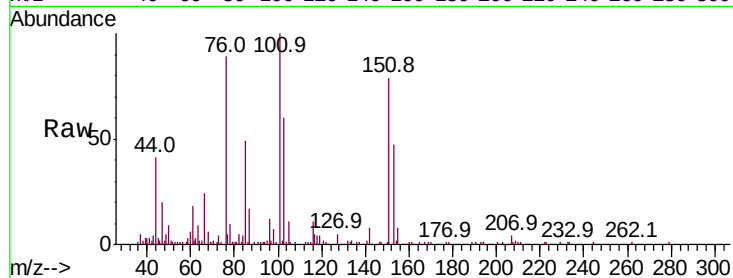
VF0512SBSD01

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#18

Methyl Acetate

Concen: 18.884 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062498.D

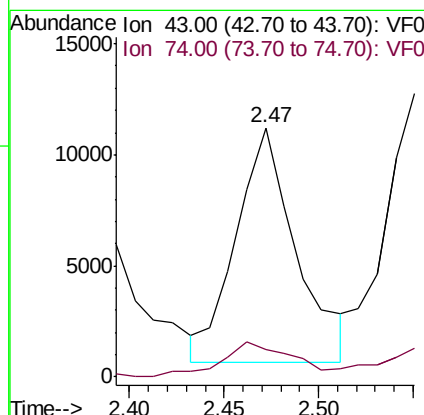
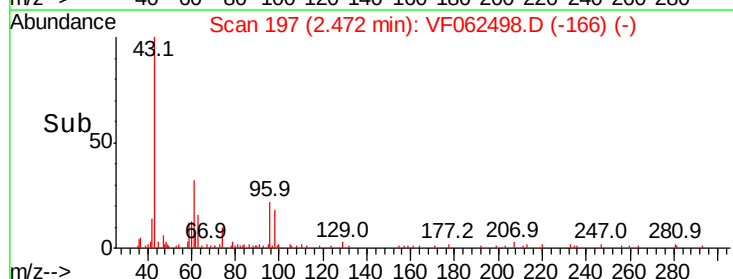
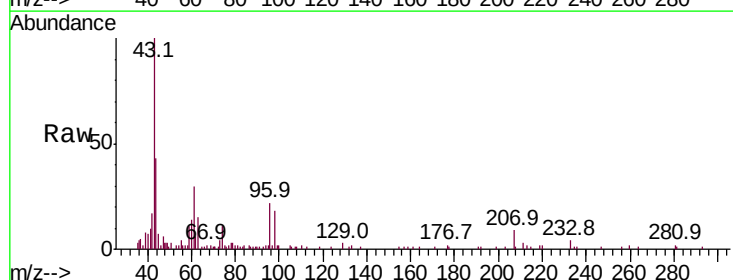
Acq: 12 May 2019 12:57

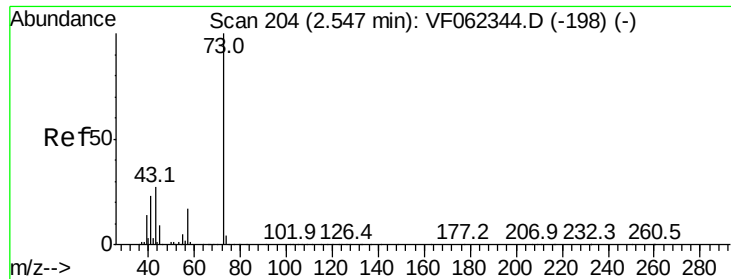
Tgt Ion: 43 Resp: 23228

Ion Ratio Lower Upper

43 100

74 18.2 15.0 22.4





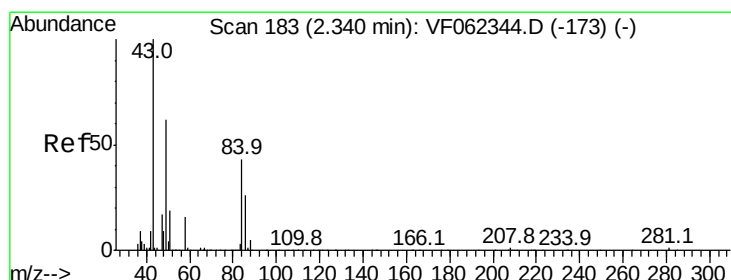
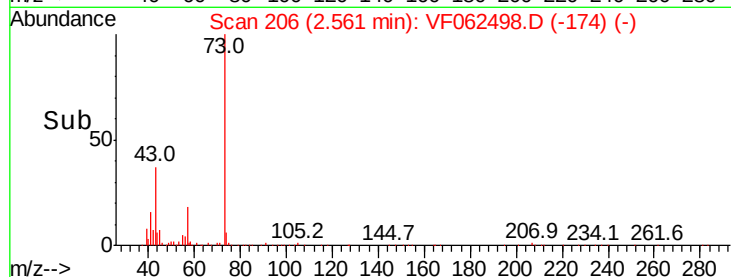
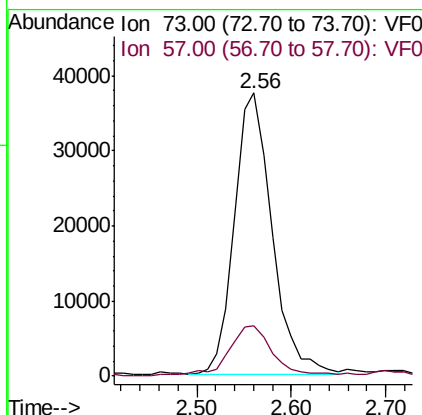
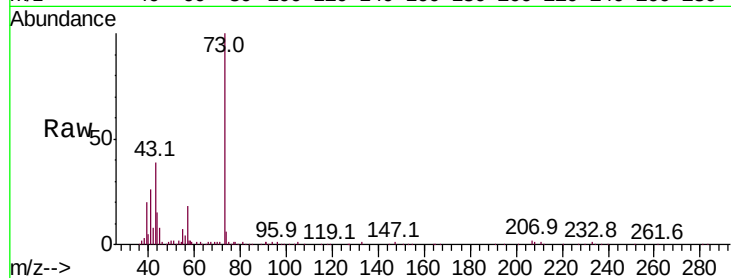
#19
Methyl tert-butyl Ether
Concen: 20.422 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion: 73 Resp: 103365
Ion Ratio Lower Upper
73 100
57 17.4 13.7 20.5

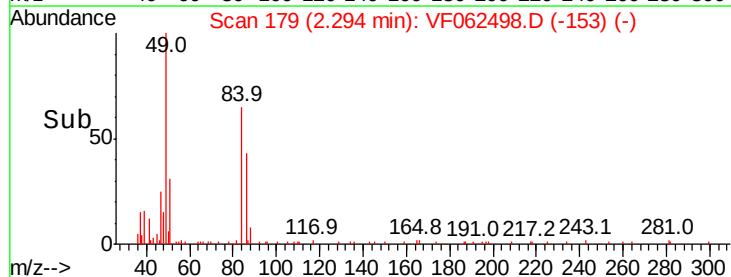
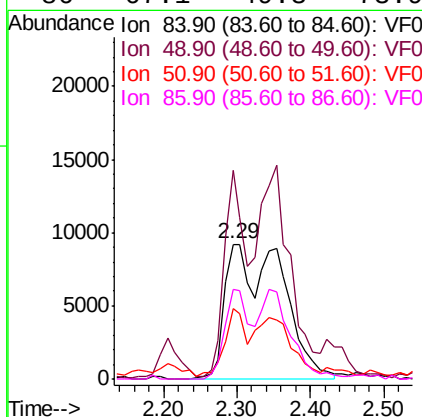
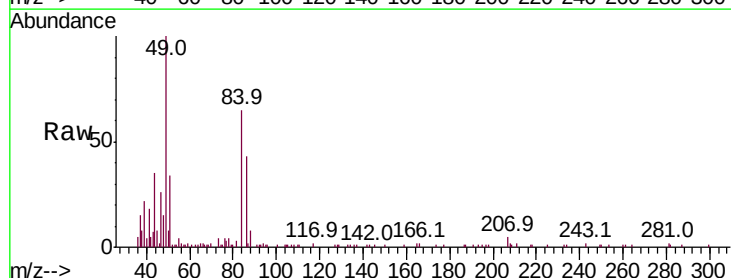
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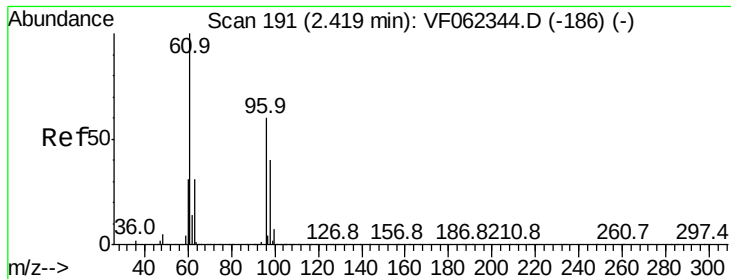
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#20
Methylene Chloride
Concen: 22.365 ug/l m
RT: 2.29 min Scan# 179
Delta R.T. -0.05 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion: 84 Resp: 49470
Ion Ratio Lower Upper
84 100
49 155.0 117.5 176.3
51 52.2 37.0 55.4
86 67.1 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 22.220 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 96 Resp: 51908

Ion Ratio Lower Upper

96 100

61 165.4 133.2 199.8

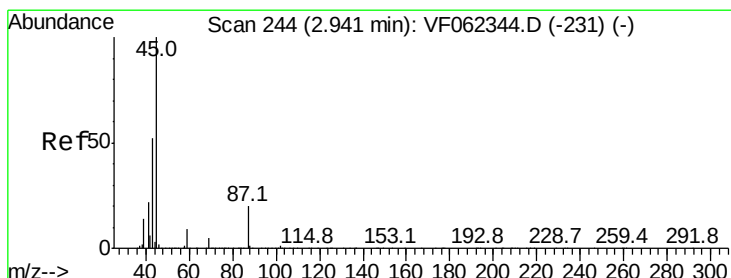
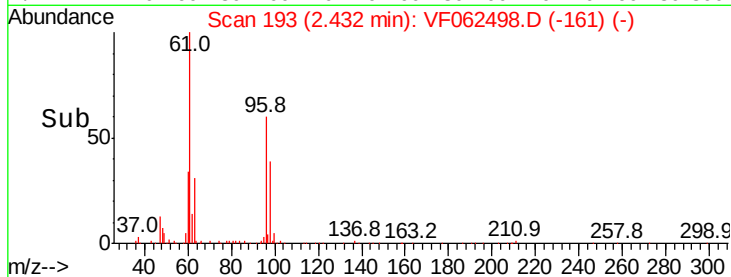
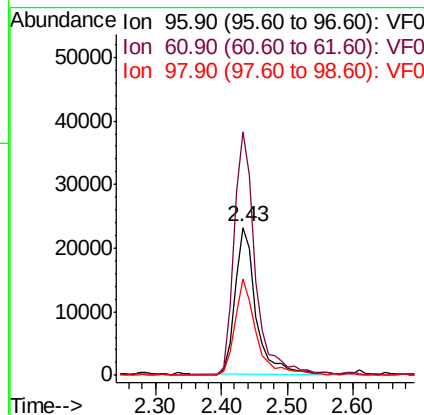
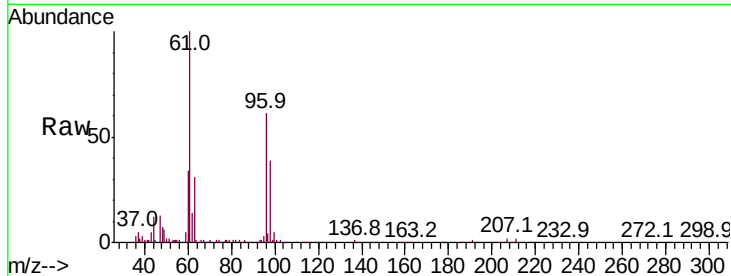
98 65.5 53.1 79.7

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#22

Diisopropyl ether

Concen: 20.896 ug/l

RT: 2.94 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion: 45 Resp: 141449

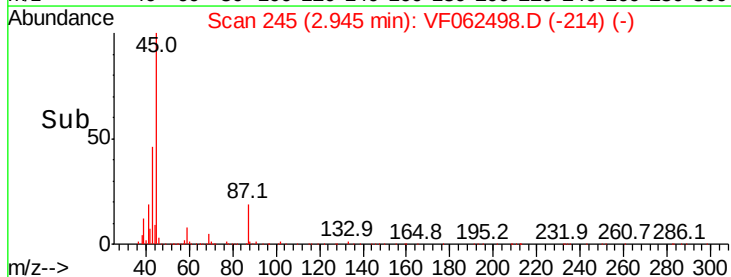
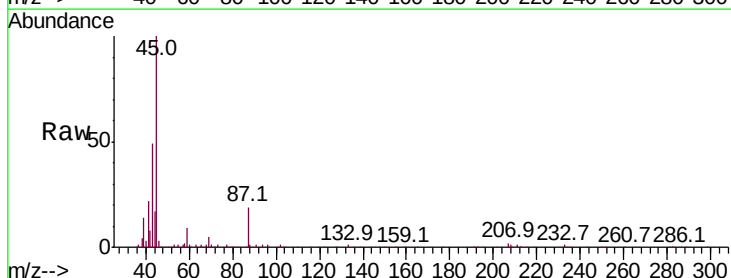
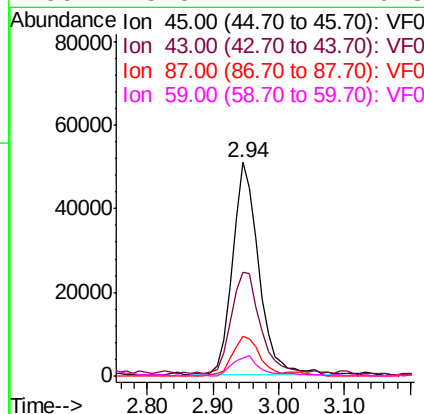
Ion Ratio Lower Upper

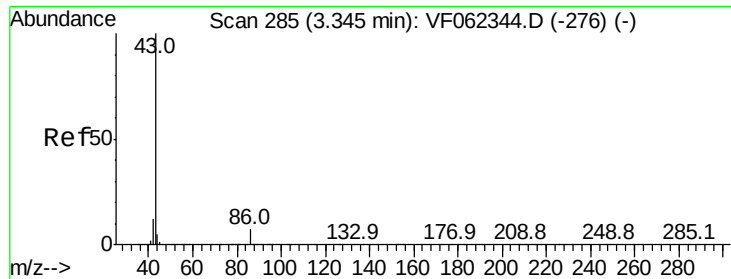
45 100

43 47.7 41.4 62.0

87 19.0 15.8 23.6

59 8.3 7.2 10.8





#23

Vinyl Acetate

Concen: 102.793 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 43 Resp: 310129

Ion Ratio Lower Upper

43 100

86 7.1

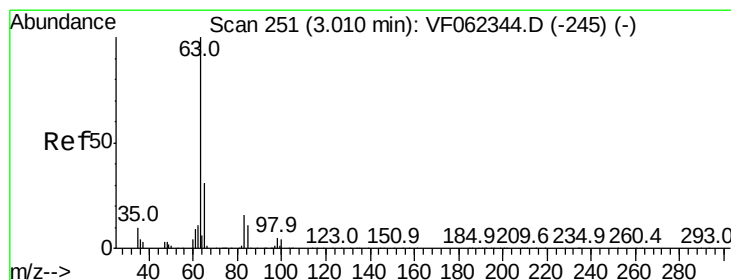
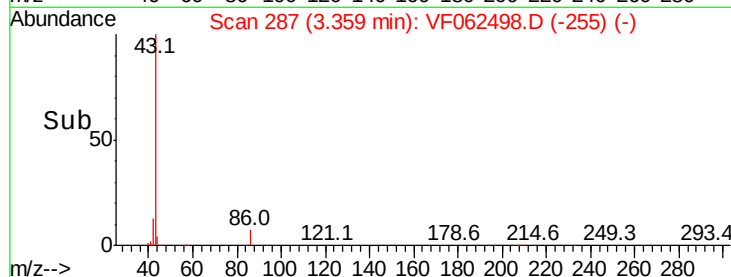
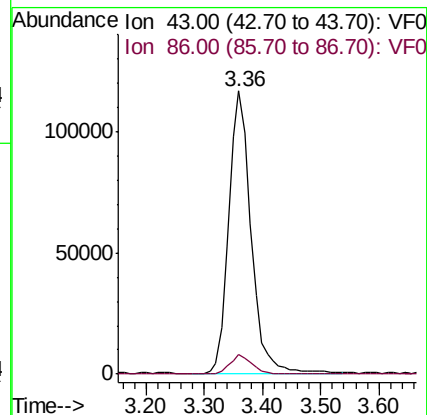
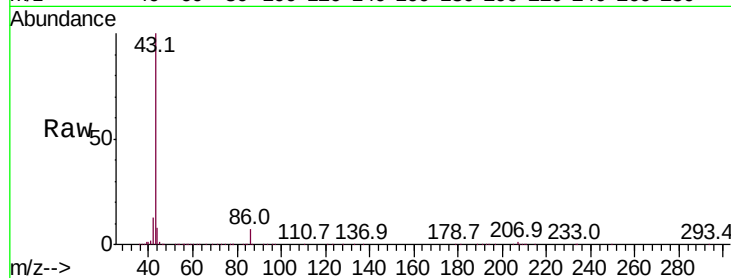
5.7

8.5

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#24

1,1-Dichloroethane

Concen: 23.554 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion: 63 Resp: 96366

Ion Ratio Lower Upper

63 100

98 3.3

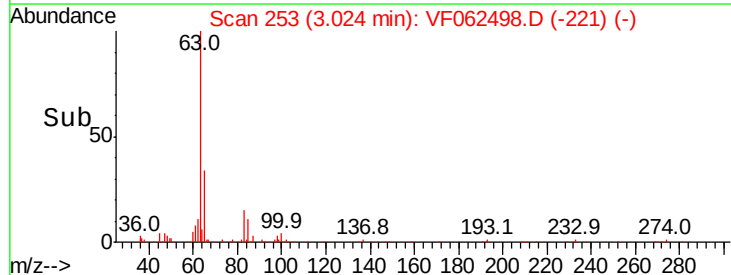
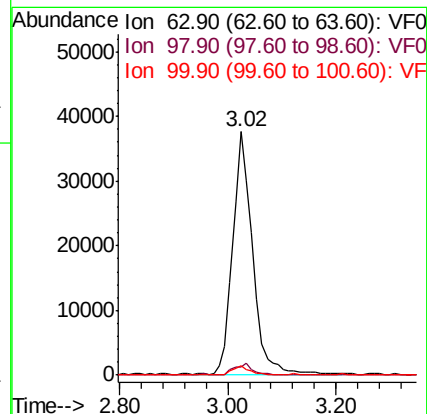
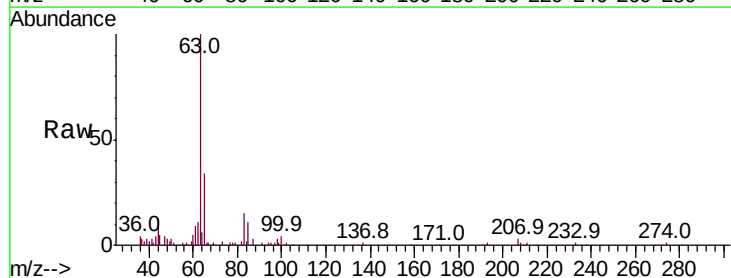
2.6

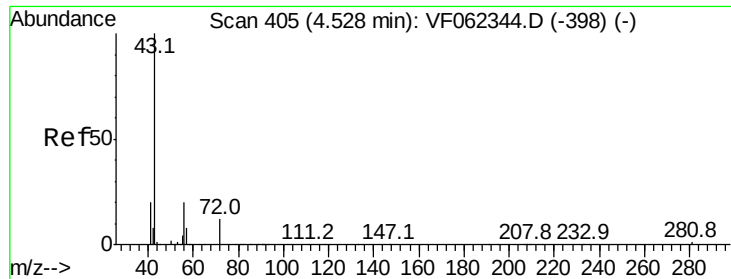
8.0

100 3.4

1.8

5.4





#25

2-Butanone

Concen: 90.931 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 43 Resp: 69844

Ion Ratio Lower Upper

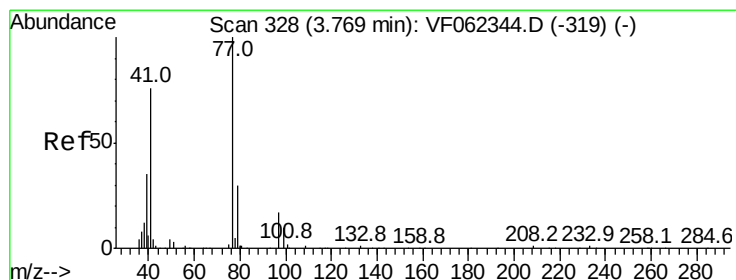
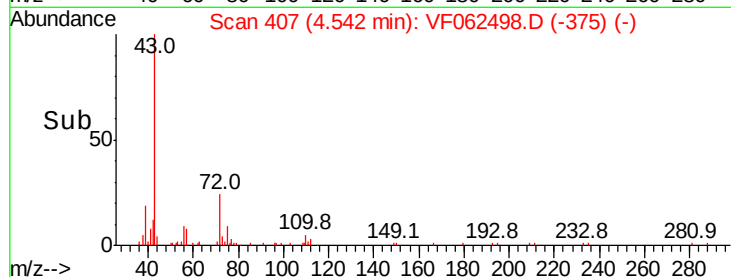
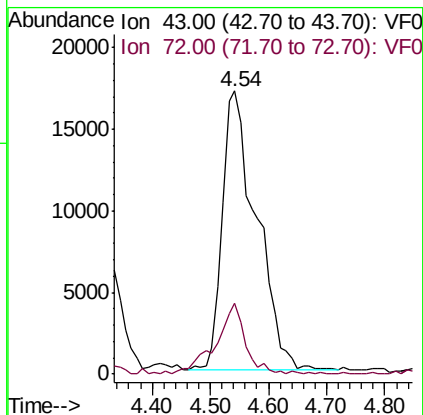
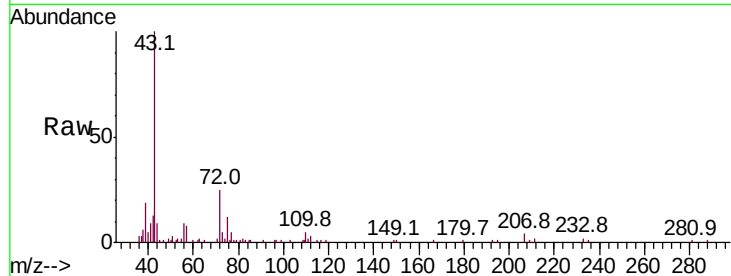
43 100

72 25.3 14.2 21.4#

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#26

2,2-Dichloropropane

Concen: 28.594 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.02 min

Lab File: VF062498.D

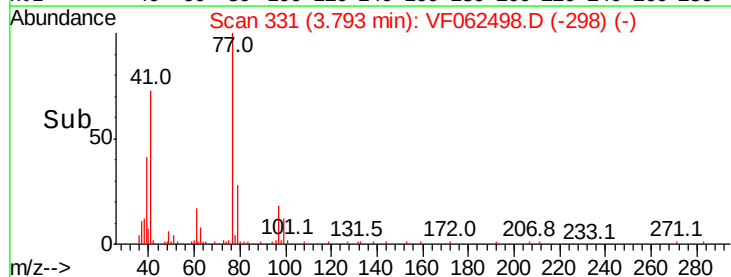
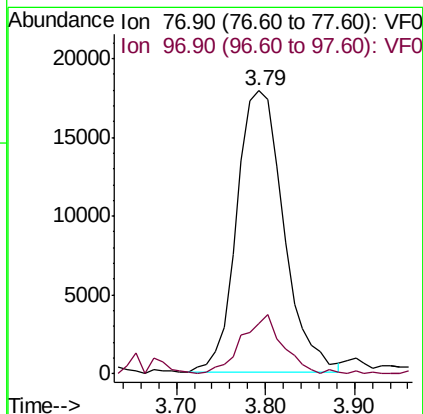
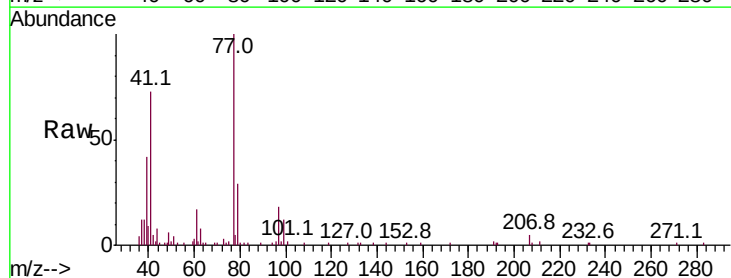
Acq: 12 May 2019 12:57

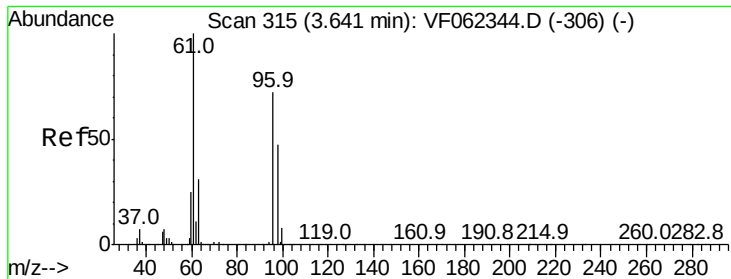
Tgt Ion: 77 Resp: 65329

Ion Ratio Lower Upper

77 100

97 18.3 9.5 28.5





#27

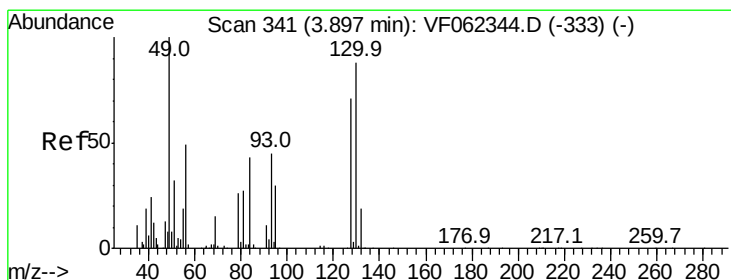
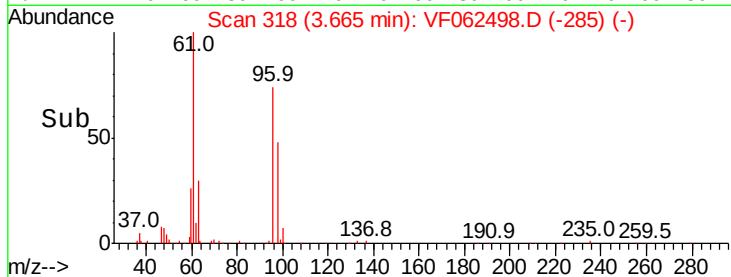
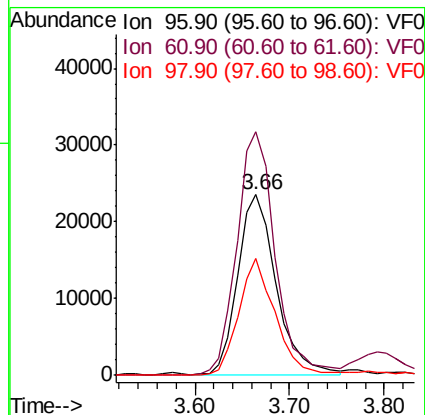
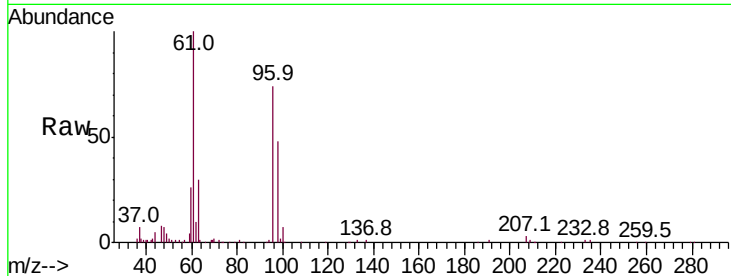
cis-1,2-Dichloroethene
Concen: 22.529 ug/l
RT: 3.66 min Scan# 318
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	65787		
61	135.9	0.0	263.0	
98	61.8	0.0	130.8	

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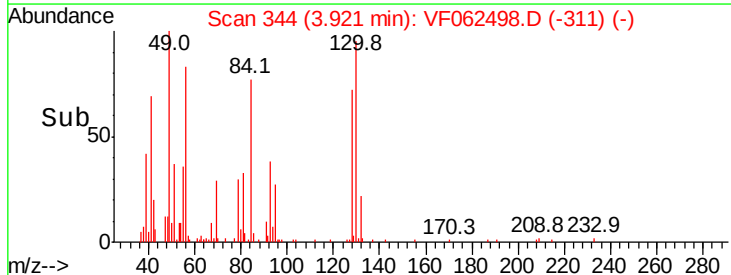
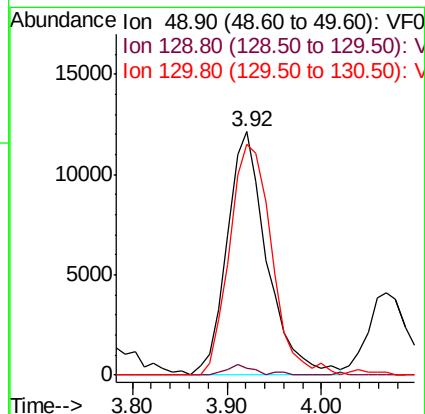
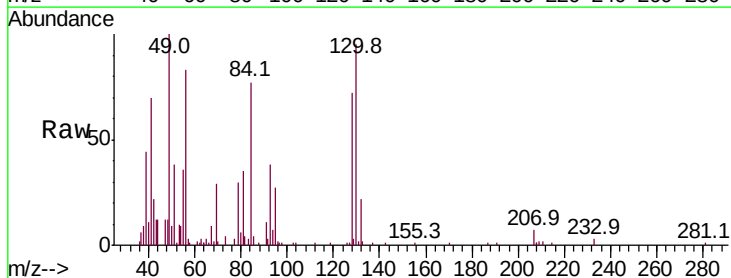
MMDadoda
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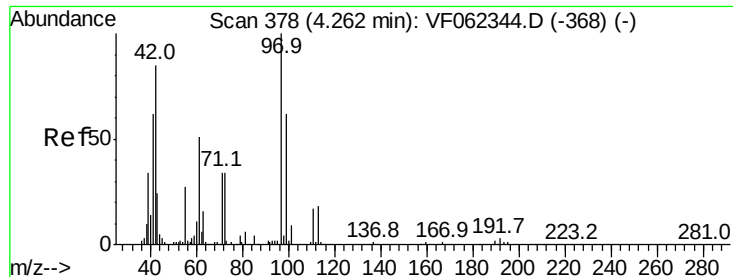


#28

Bromochloromethane
Concen: 19.168 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	35565		
129	3.0	0.0	2.2#	
130	100.0	79.4	119.0	





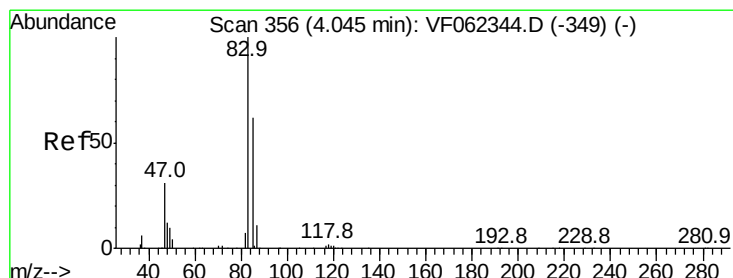
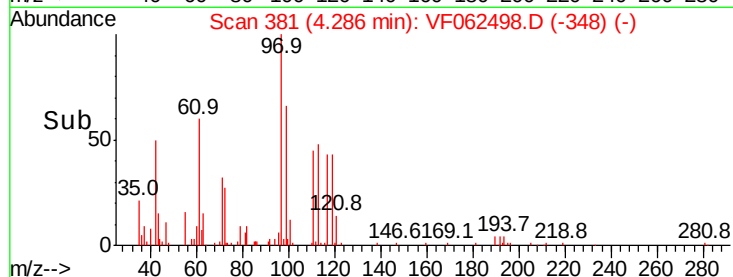
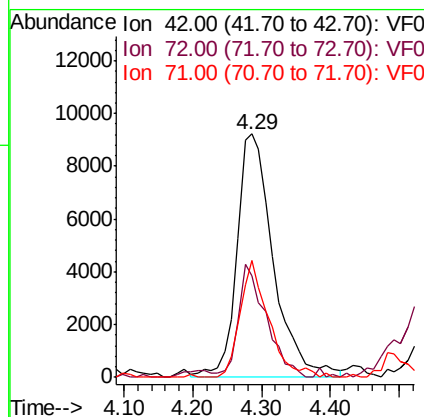
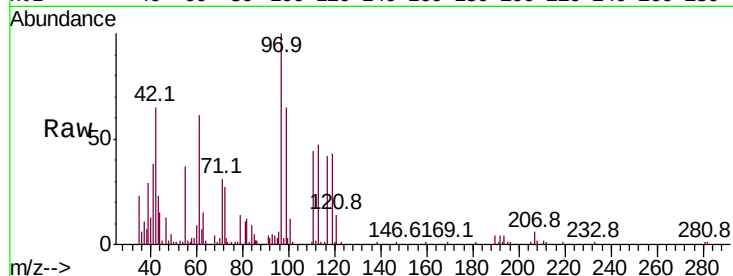
#29
Tetrahydrofuran
Concen: 96.027 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.6	31.4	47.0
71	37.6	31.7	47.5

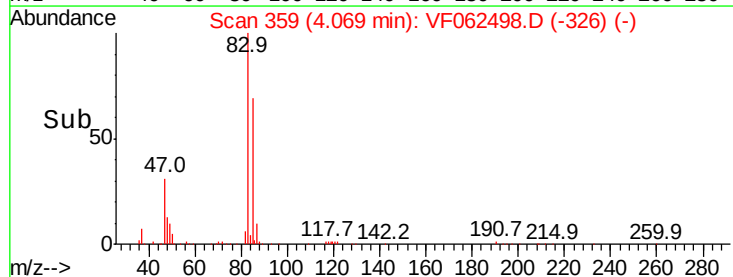
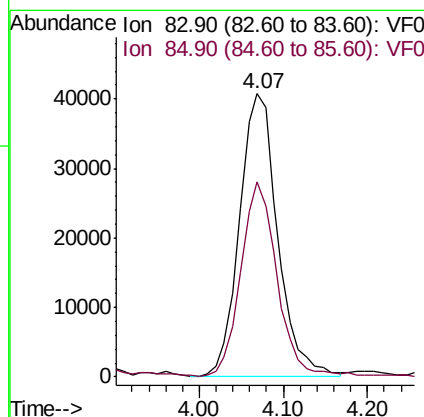
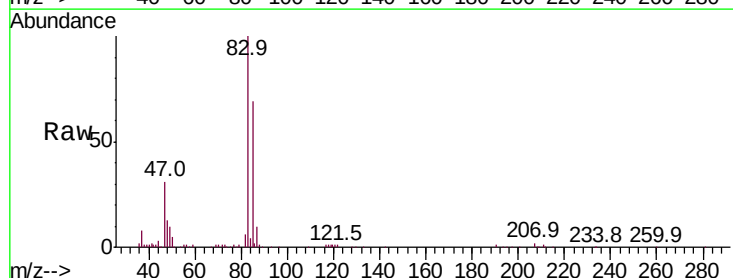
Manual Integrations
APPROVED

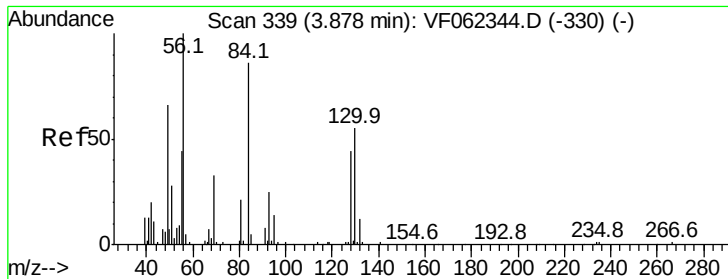
MMDadoda
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#30
Chloroform
Concen: 23.470 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	49.6	74.4





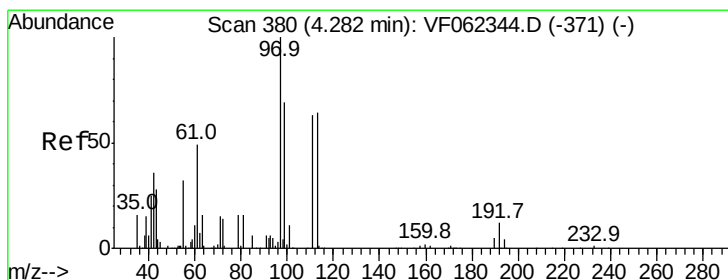
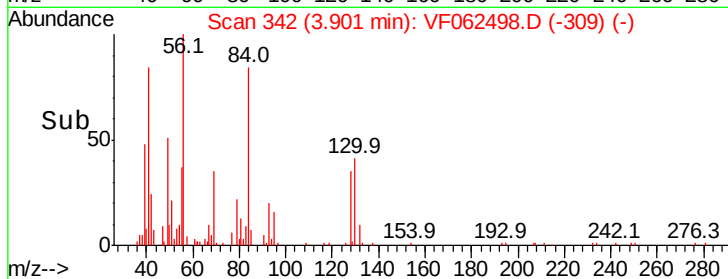
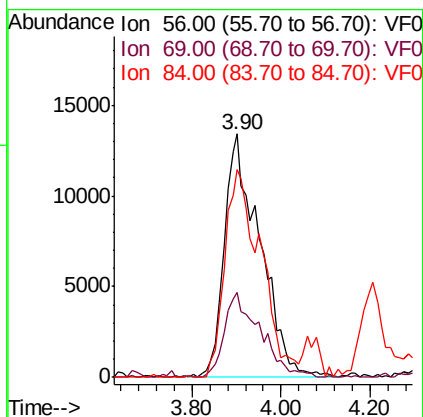
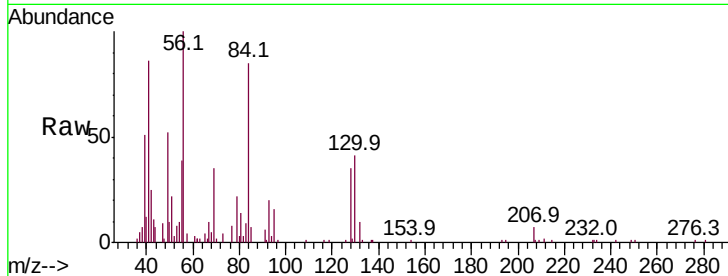
#31
Cyclohexane
Concen: 22.770 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.8	26.4	39.6
84	84.5	69.0	103.6

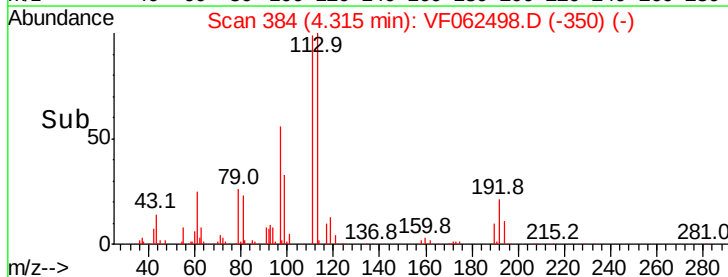
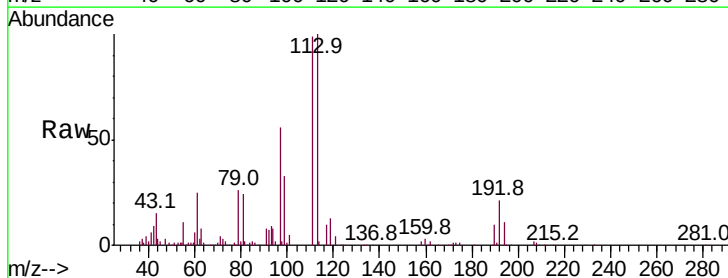
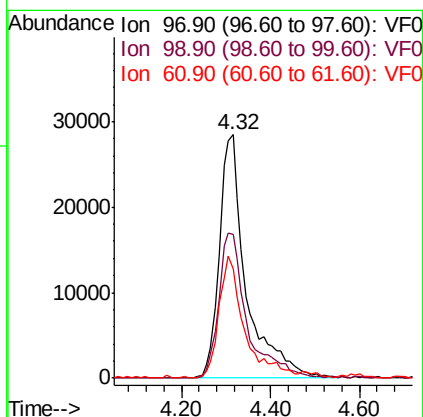
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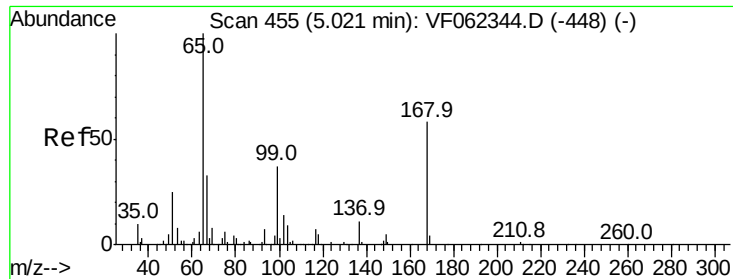
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#32
1,1,1-Trichloroethane
Concen: 25.153 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.03 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	52.6	78.8
61	47.7	39.4	59.0





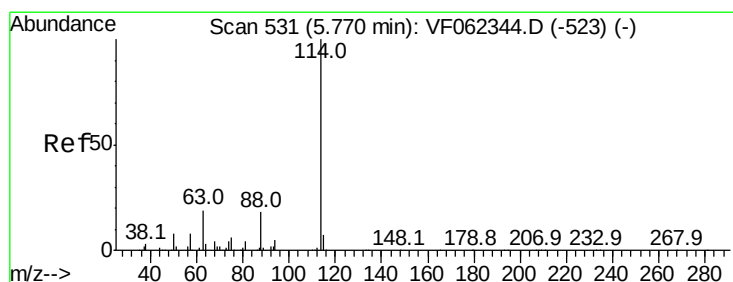
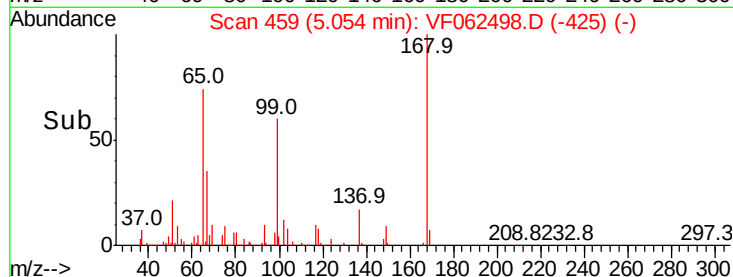
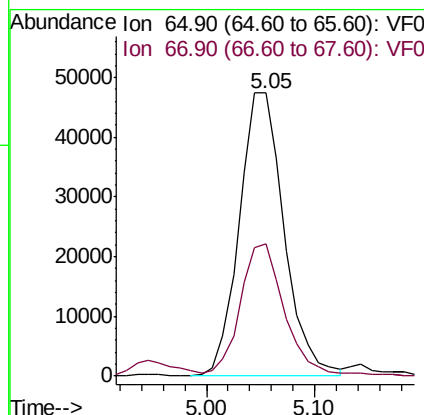
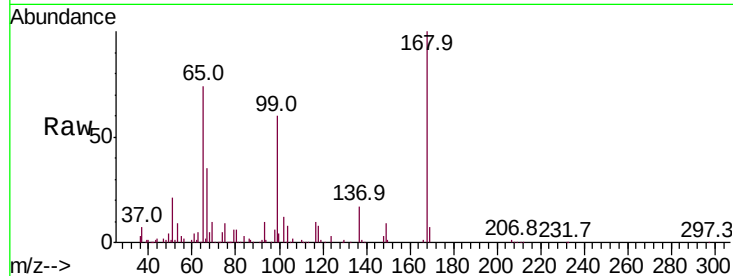
#33
 1,2-Dichloroethane-d4
 Concen: 45.477 ug/l
 RT: 5.05 min Scan# 459
 Delta R.T. 0.03 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	137444		
67	46.6	0.0	85.8	

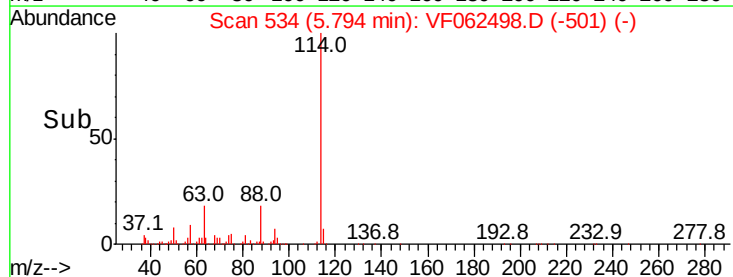
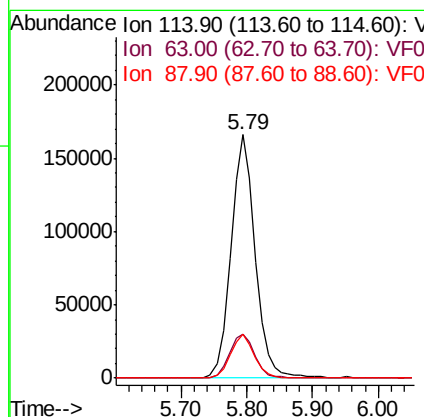
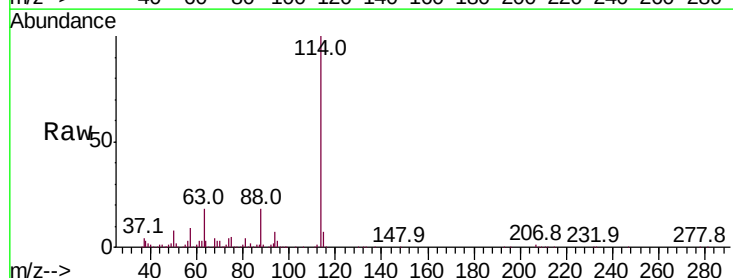
Manual Integrations
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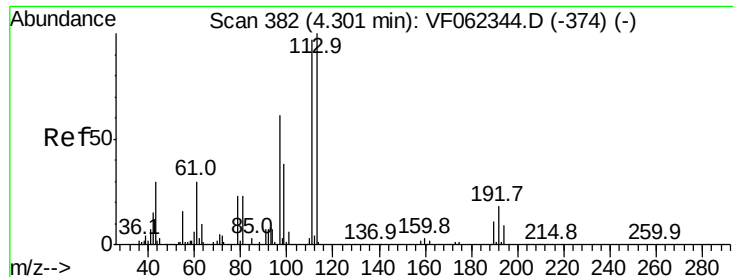
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	426013		
63	18.1	0.0	37.4	
88	18.2	0.0	36.4	





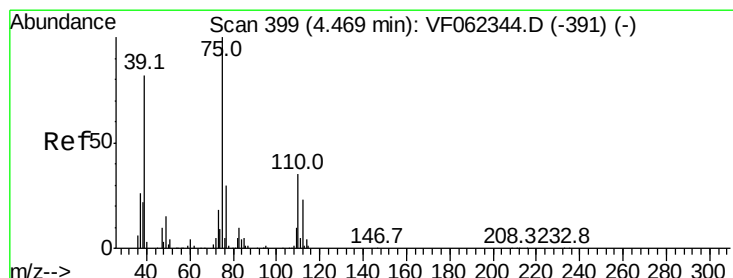
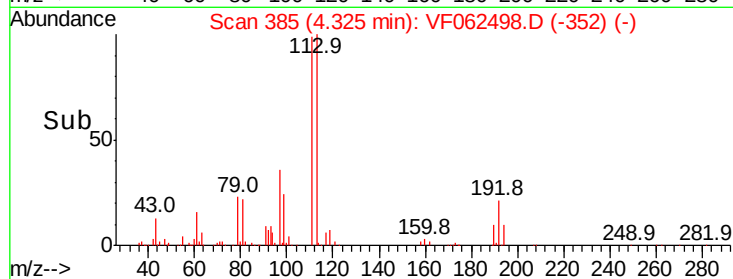
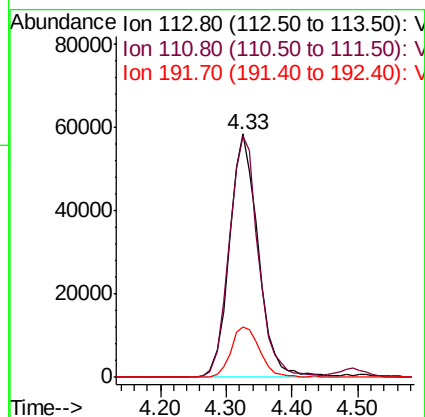
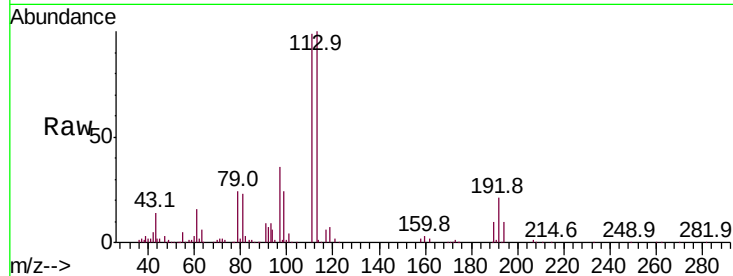
#35
 Dibromofluoromethane
 Concen: 52.955 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	79.4	119.0
192	21.0	16.0	24.0

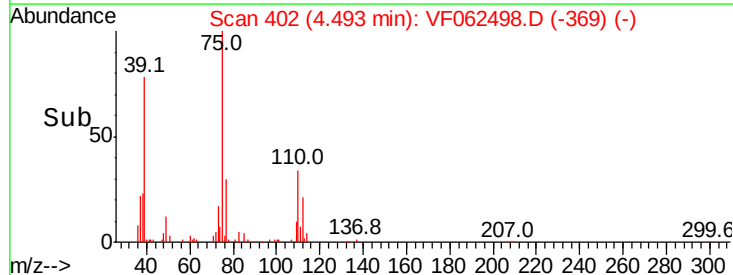
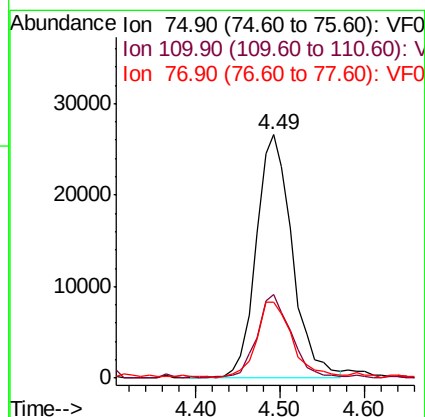
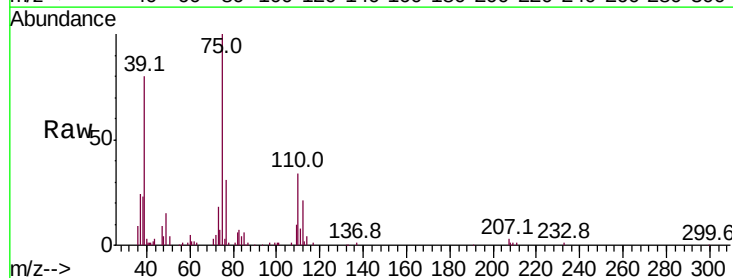
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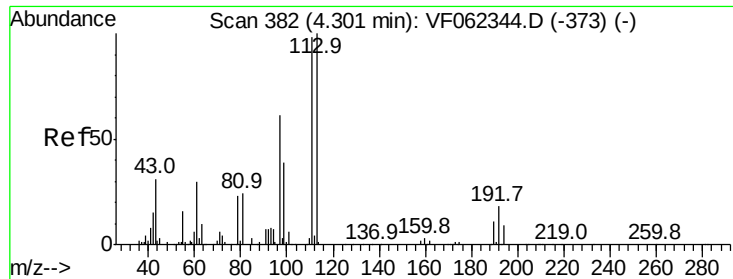
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#36
 1,1-Dichloropropene
 Concen: 21.764 ug/l
 RT: 4.49 min Scan# 402
 Delta R.T. 0.02 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.0	17.2	51.5
77	31.5	25.2	37.8





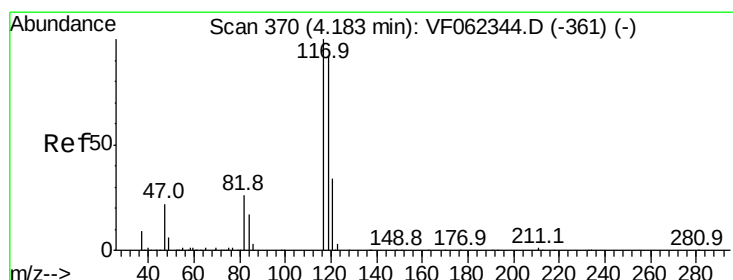
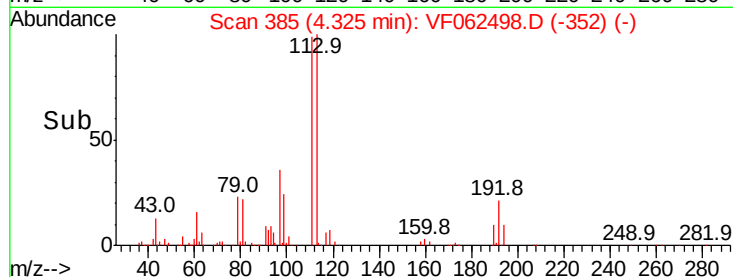
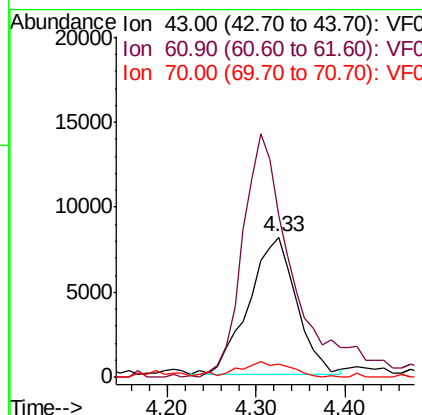
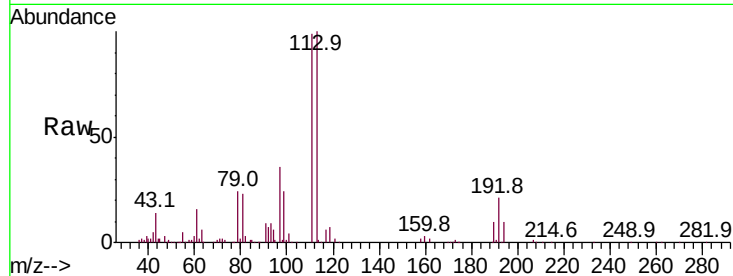
#37
Ethyl Acetate
Concen: 17.641 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	189.4	0.0	0.0#
70	11.5	8.2	12.2

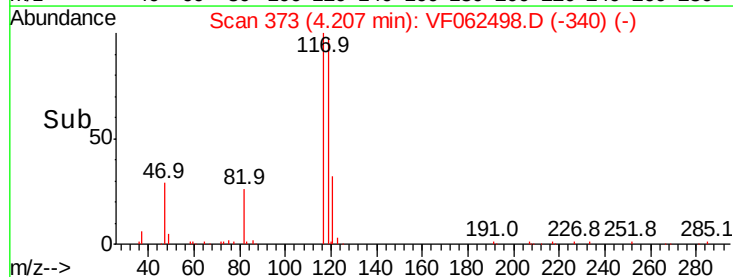
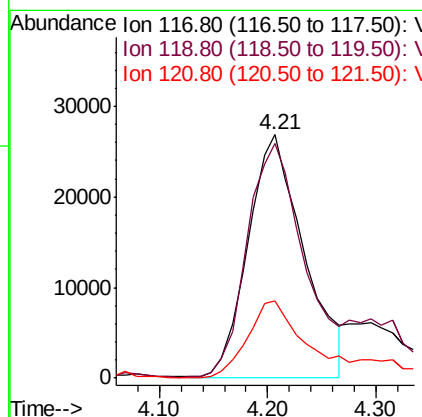
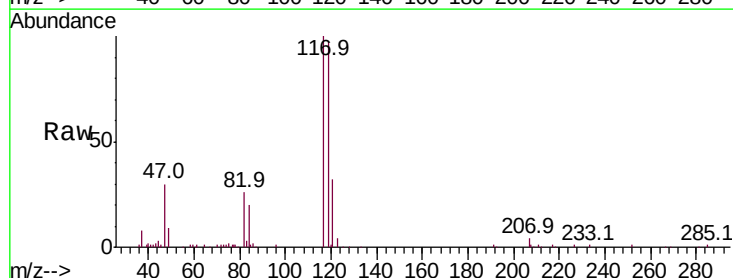
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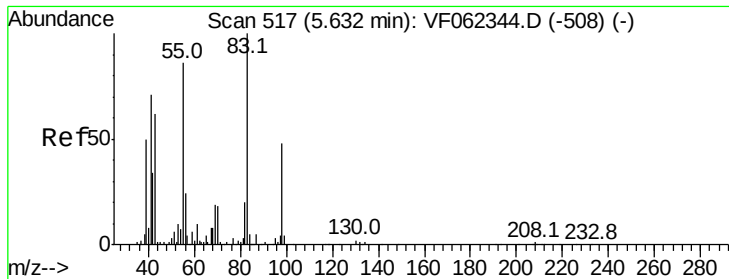
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#38
Carbon Tetrachloride
Concen: 24.151 ug/l m
RT: 4.21 min Scan# 373
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	73.4	110.2
121	31.5	27.4	41.0





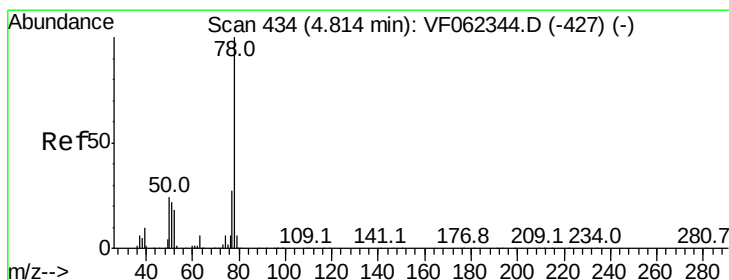
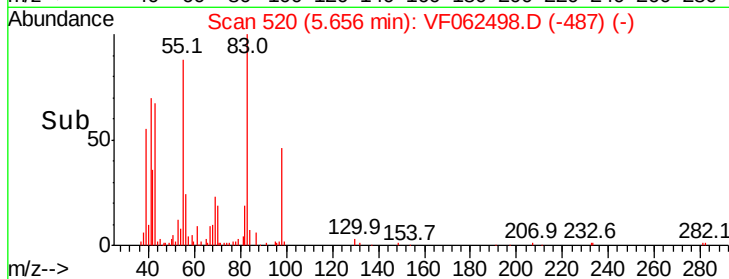
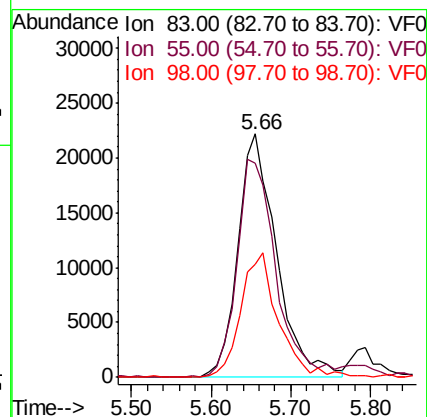
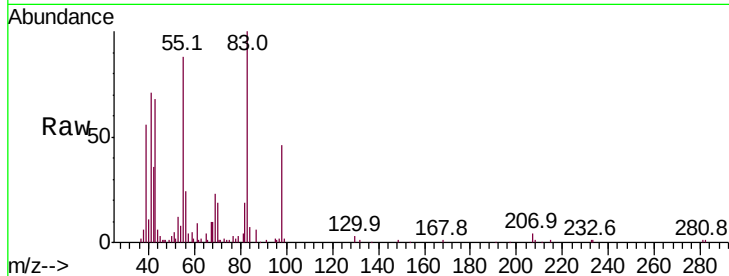
#39
Methylvlcyclohexane
Concen: 20.316 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.3	69.0	103.6
98	46.5	38.6	58.0

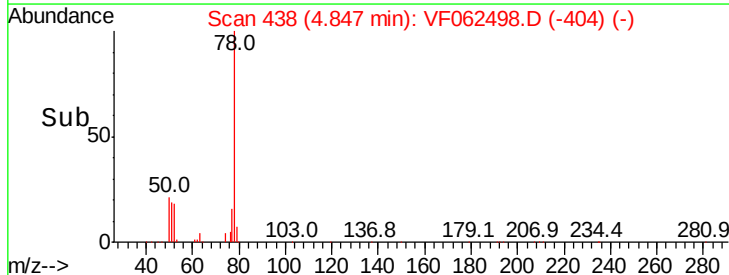
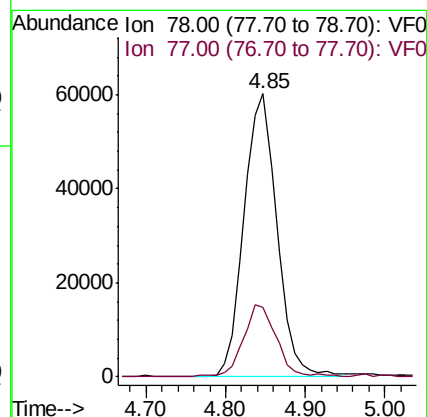
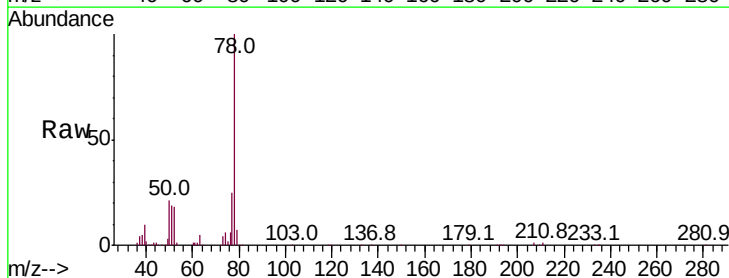
Manual Integrations
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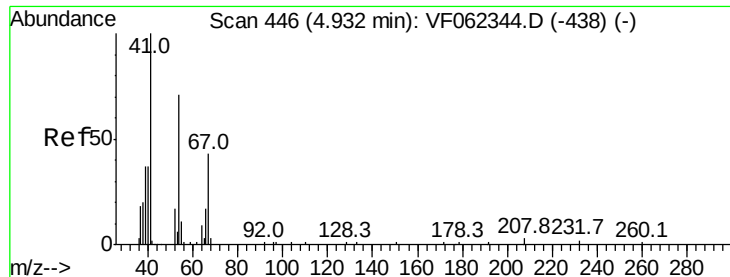
MMDadoda
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#40
Benzene
Concen: 21.392 ug/l
RT: 4.85 min Scan# 438
Delta R.T. 0.03 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	21.6	32.4





#41

Methacrylonitrile

Concen: 16.160 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

Tot Ion: 41 Resp: 14180

Ion Ratio Lower Upper

41 100

39 84.5 54.3 81.5#

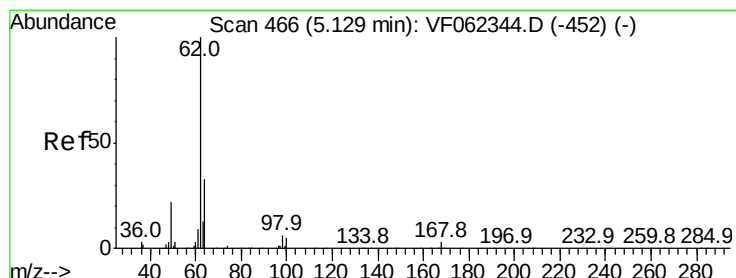
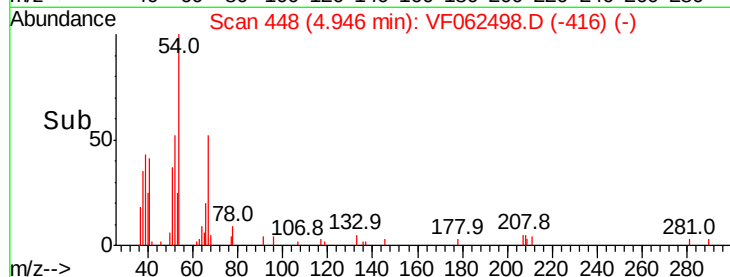
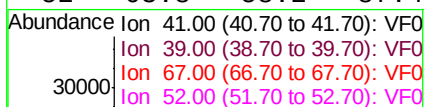
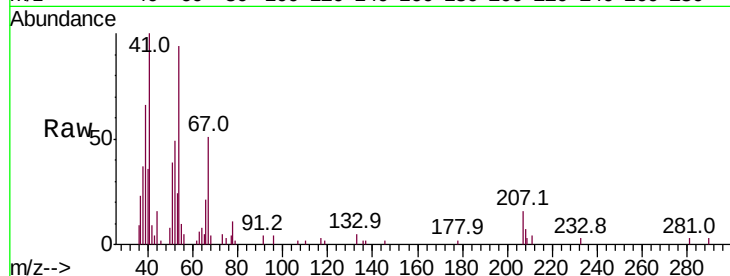
67 54.5 37.8 56.8

52 63.8 58.2 87.4

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.372 ug/l

RT: 5.14 min Scan# 468

Delta R.T. 0.01 min

Lab File: VF062498.D

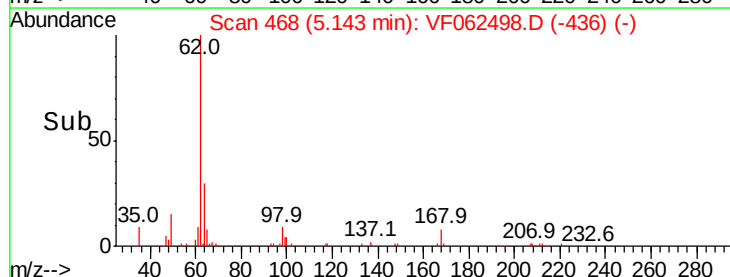
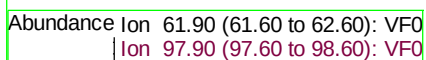
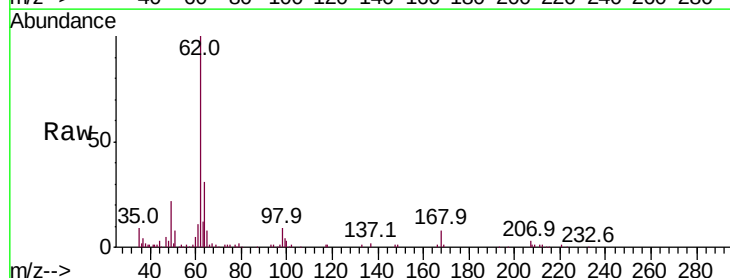
Acq: 12 May 2019 12:57

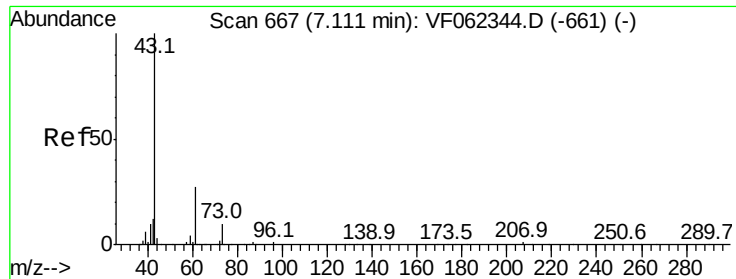
Tgt Ion: 62 Resp: 68663

Ion Ratio Lower Upper

62 100

98 7.3 0.0 12.4





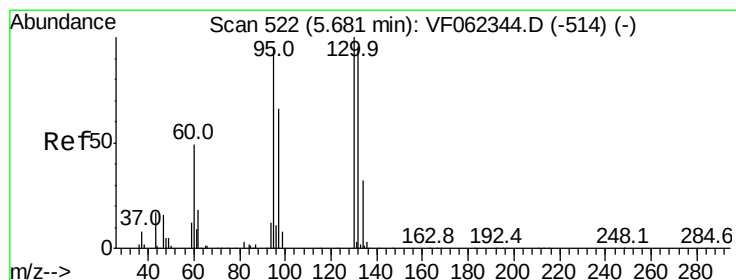
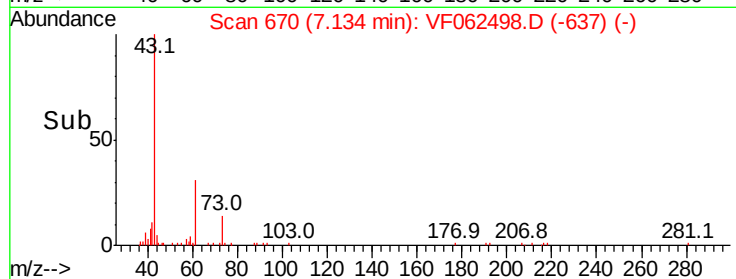
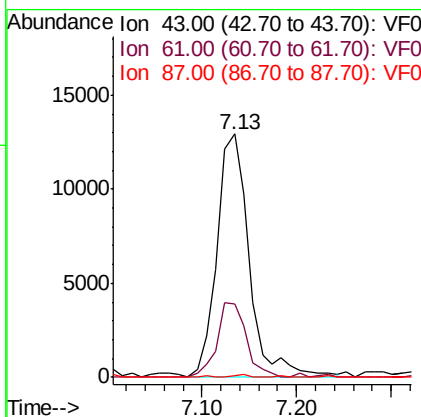
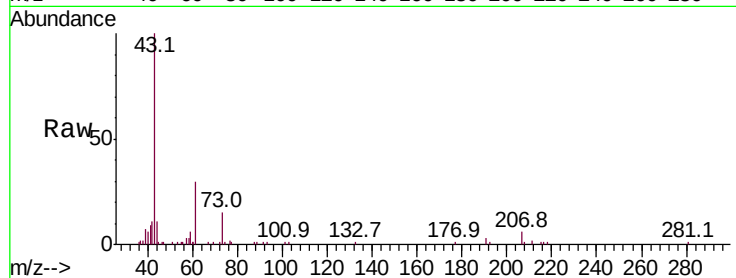
#43
Isopropyl Acetate
Concen: 18.434 ug/l
RT: 7.13 min Scan# 670
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.8	22.8	34.2
87	0.5	0.6	1.0

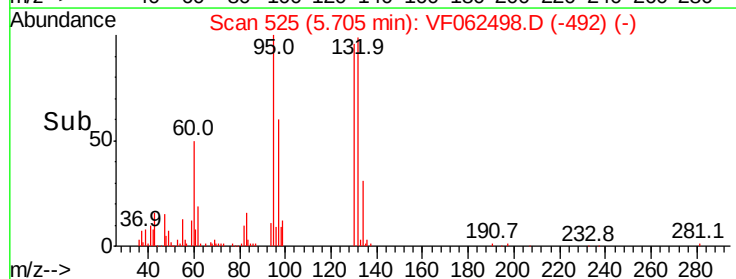
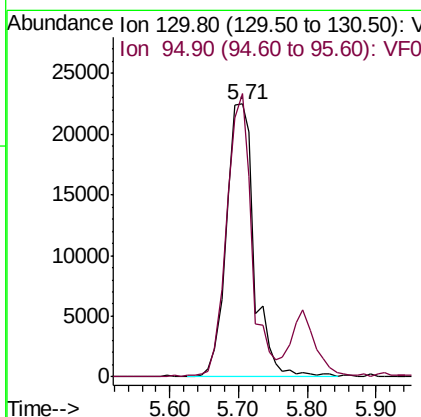
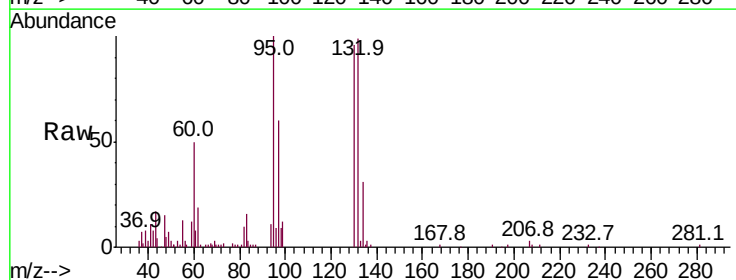
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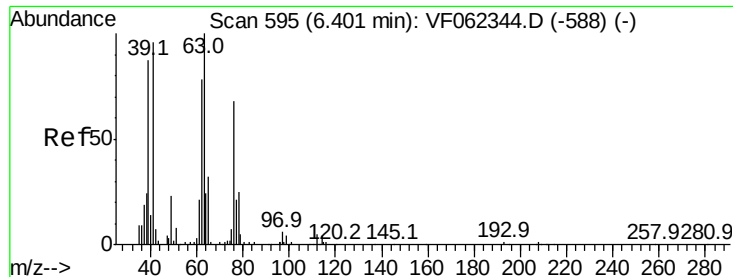
MMDadoda
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#44
Trichloroethene
Concen: 21.236 ug/l
RT: 5.71 min Scan# 525
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	189.0





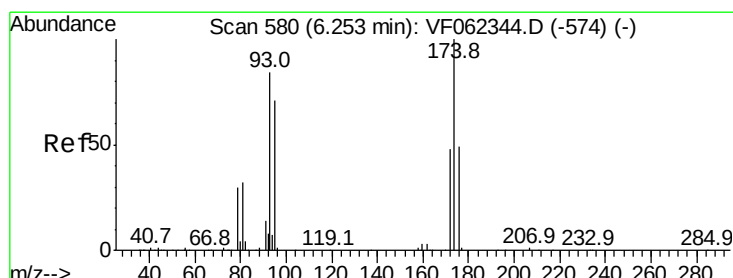
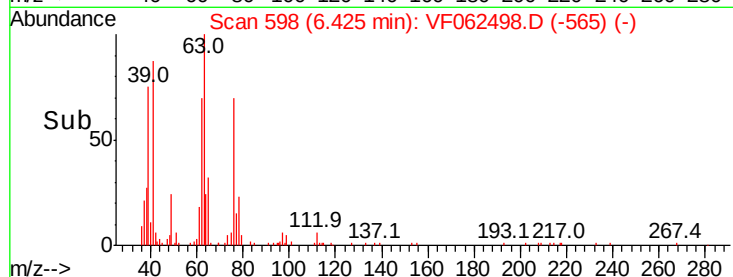
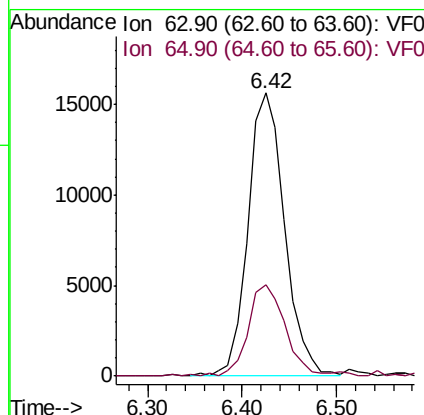
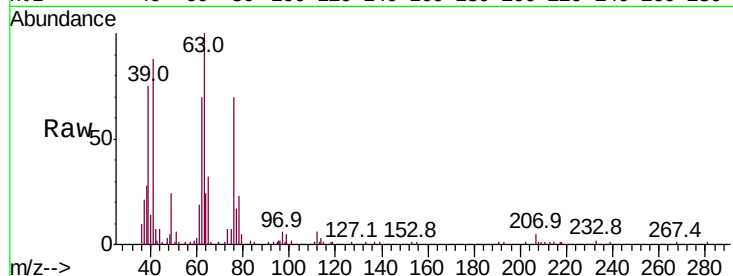
#45
1,2-Dichloropropane
Concen: 22.995 ug/l
RT: 6.42 min Scan# 598
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion: 63 Resp: 41973
Ion Ratio Lower Upper
63 100
65 31.7 25.6 38.4

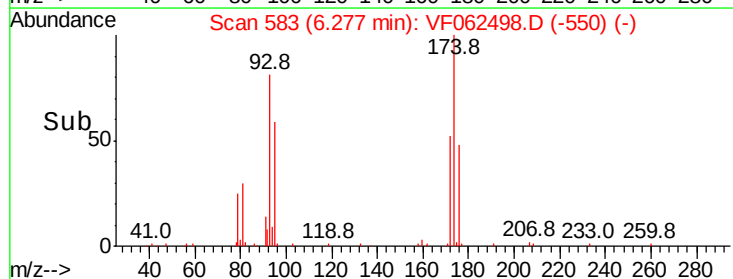
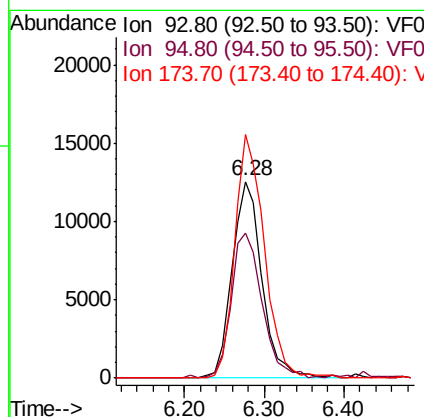
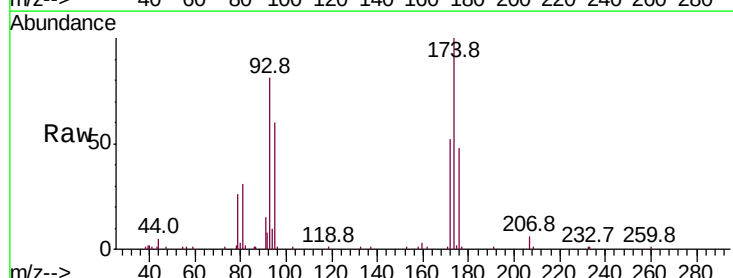
Manual Integrations
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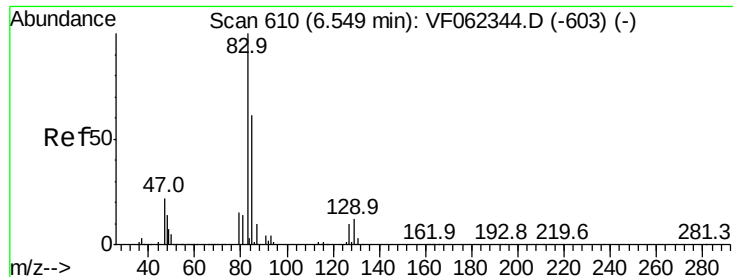
MMDadoda
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#46
Dibromomethane
Concen: 21.715 ug/l
RT: 6.28 min Scan# 583
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion: 93 Resp: 32863
Ion Ratio Lower Upper
93 100
95 76.9 68.4 102.6
174 121.7 99.6 149.4





#47

Bromodichloromethane

Concen: 21.281 ug/l

RT: 6.57 min Scan# 613

Delta R.T. 0.02 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

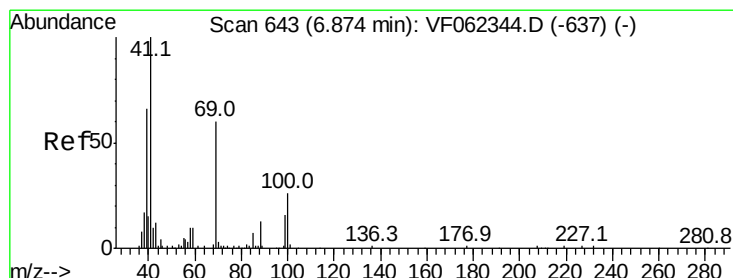
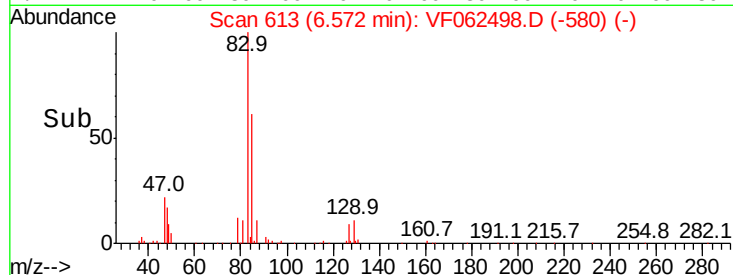
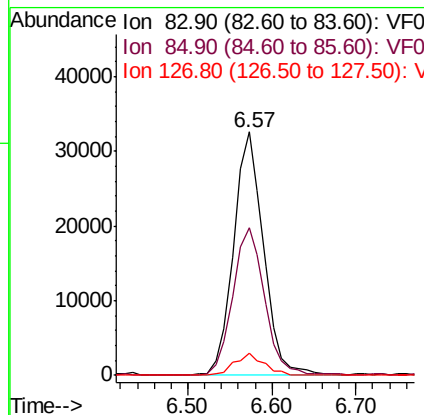
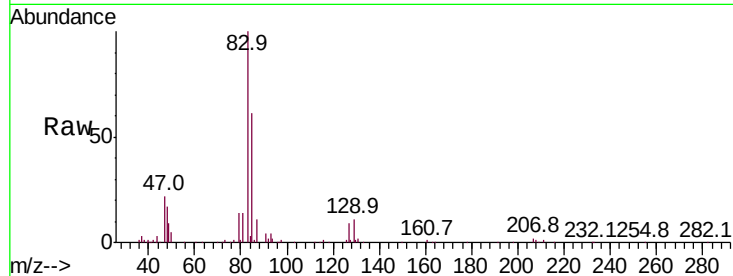
ClientSampleId :

VF0512SBSD01

Tot Ion:	83	Resp:	80521
Ion Ratio	Lower	Upper	
83	100		
85	60.5	49.1	73.7
127	9.2	7.8	11.8

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#48

Methyl methacrylate

Concen: 18.083 ug/l

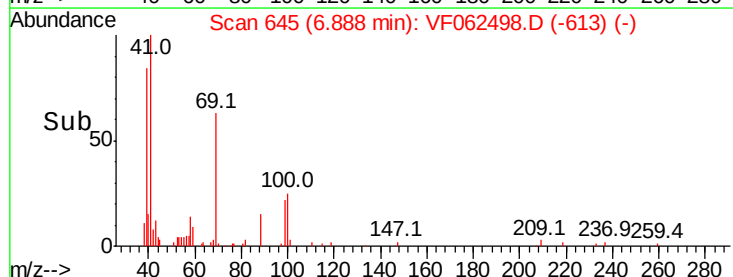
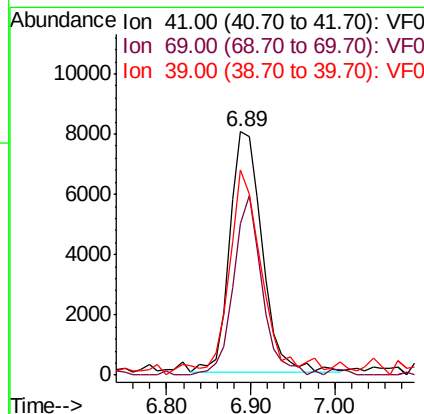
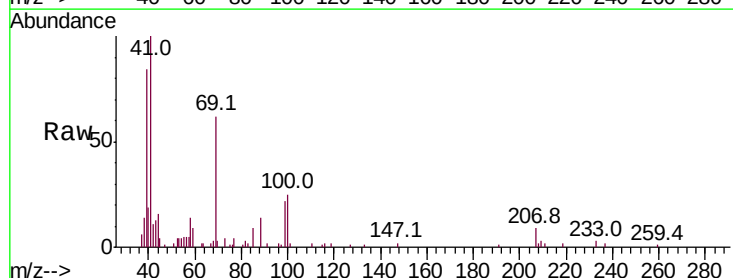
RT: 6.89 min Scan# 645

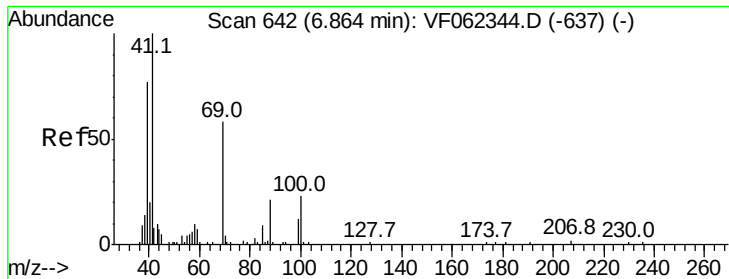
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	41	Resp:	21272
Ion Ratio	Lower	Upper	
41	100		
69	66.1	48.6	72.8
39	77.7	56.1	84.1





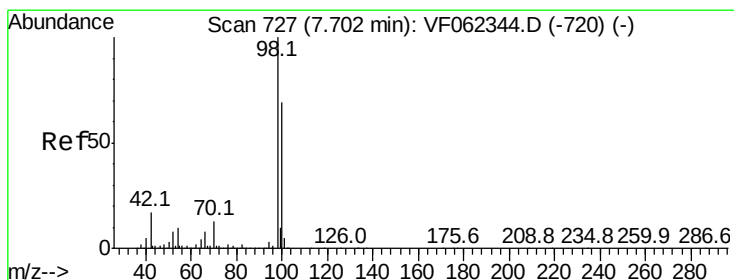
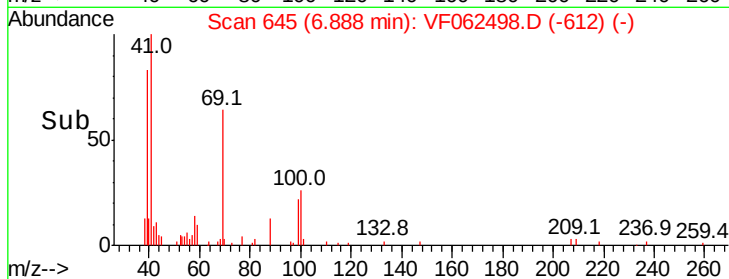
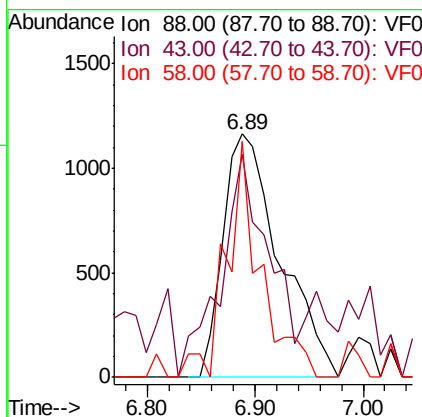
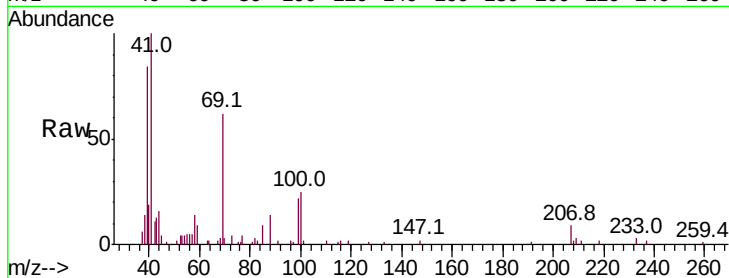
#49
1,4-Dioxane
Concen: 343.619 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	78.0	55.6	83.4
58	58.5	52.8	79.2

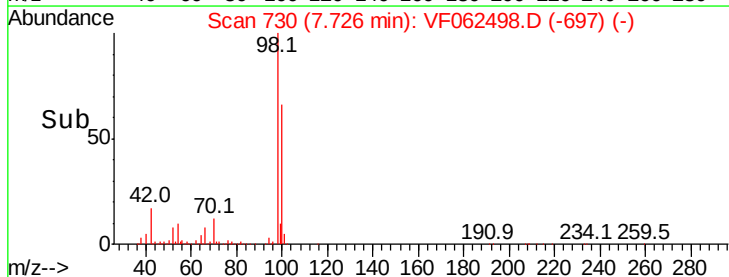
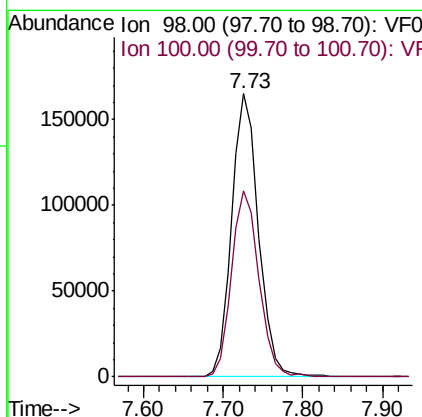
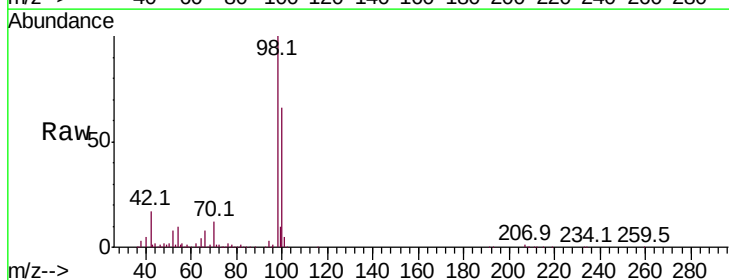
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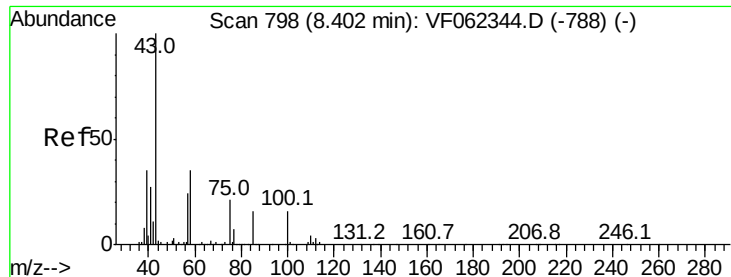
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#50
Toluene-d8
Concen: 47.460 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 99.425 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion: 43 Resp: 125406

Ion Ratio Lower Upper

43 100

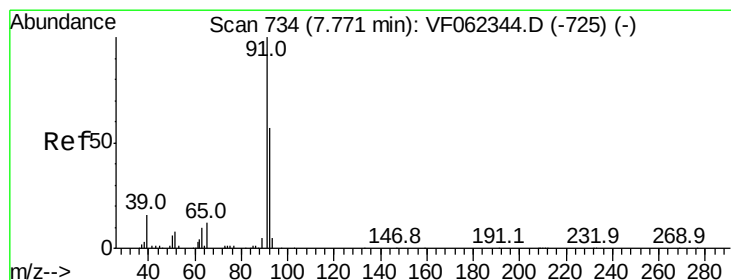
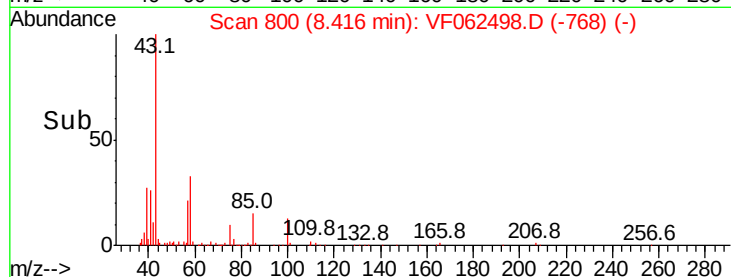
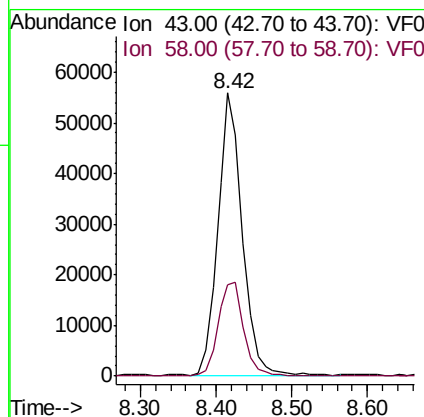
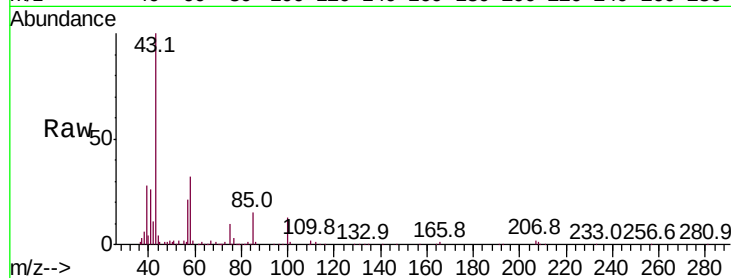
58 34.7 27.8 41.6

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#52

Toluene

Concen: 22.264 ug/l

RT: 7.79 min Scan# 737

Delta R.T. 0.02 min

Lab File: VF062498.D

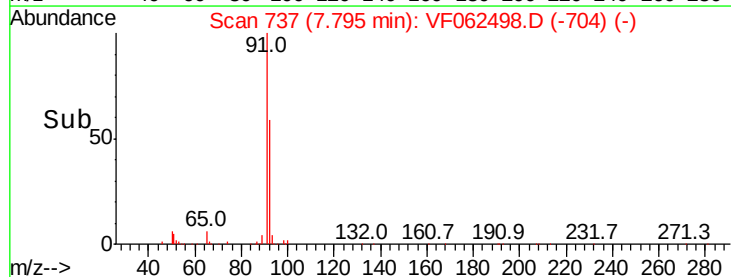
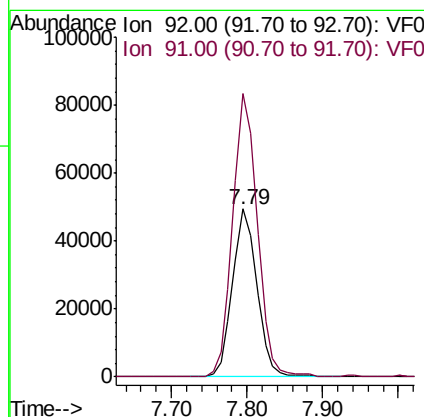
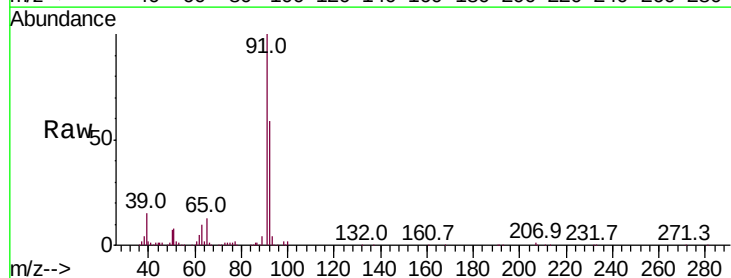
Acq: 12 May 2019 12:57

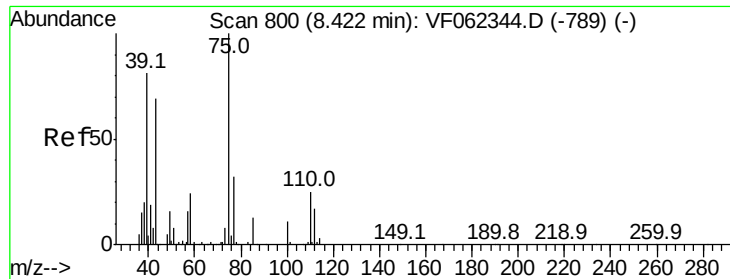
Tgt Ion: 92 Resp: 110685

Ion Ratio Lower Upper

92 100

91 170.3 138.7 208.1





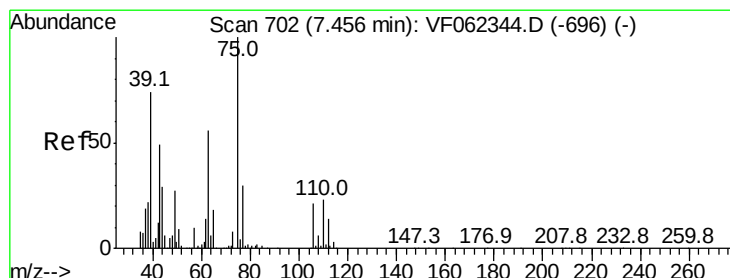
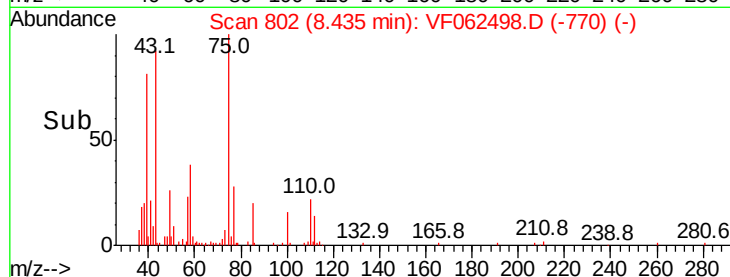
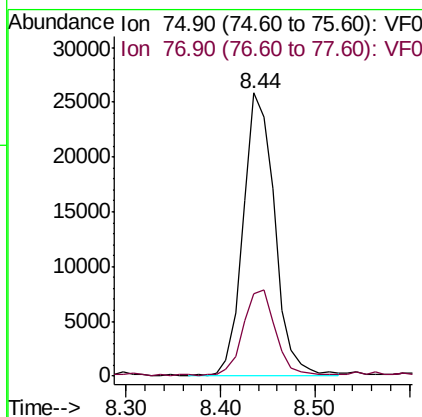
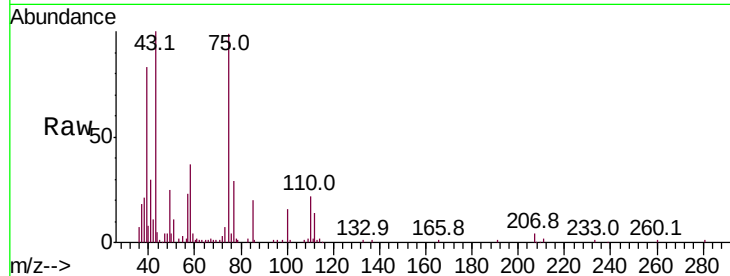
#53
t-1,3-Dichloropropene
Concen: 20.932 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion: 75 Resp: 59904
Ion Ratio Lower Upper
75 100
77 28.7 25.4 38.0

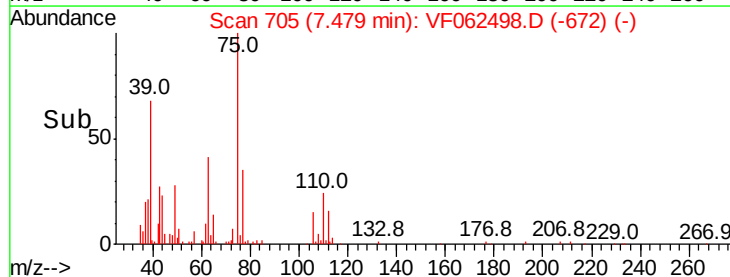
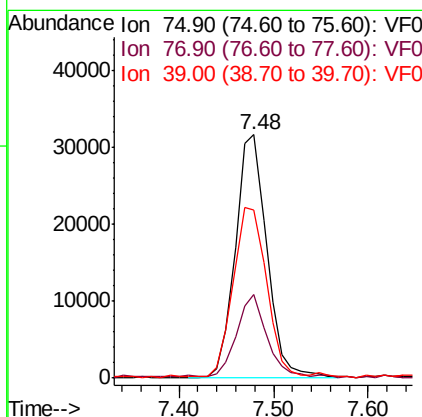
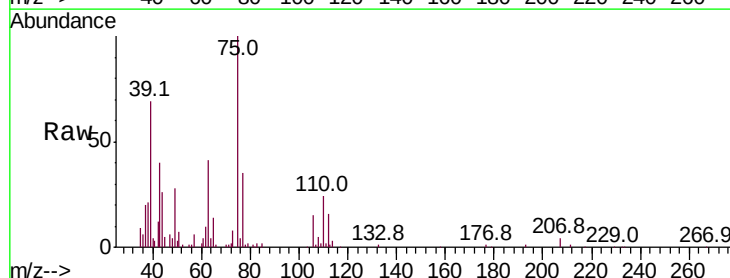
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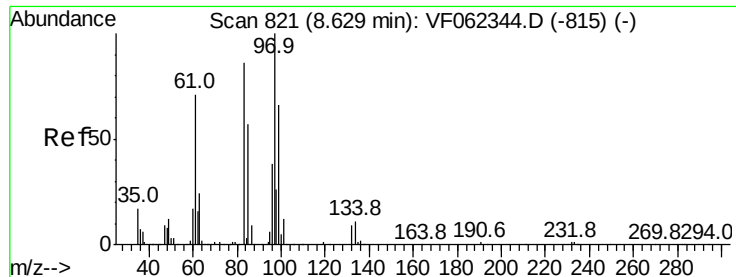
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 22.118 ug/l
RT: 7.48 min Scan# 705
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion: 75 Resp: 73667
Ion Ratio Lower Upper
75 100
77 34.2 24.0 36.0
39 68.6 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 21.163 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.02 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

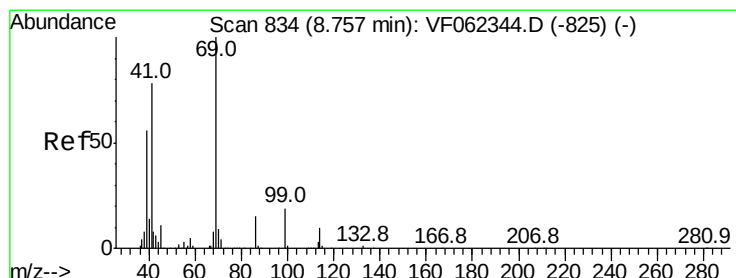
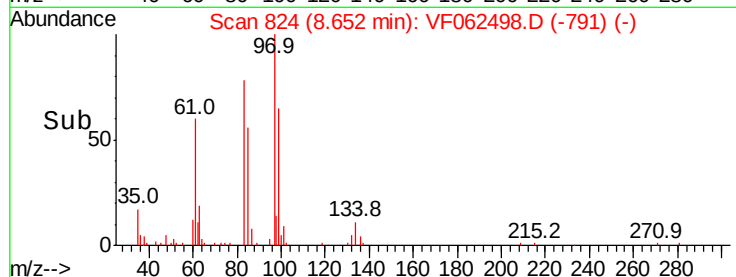
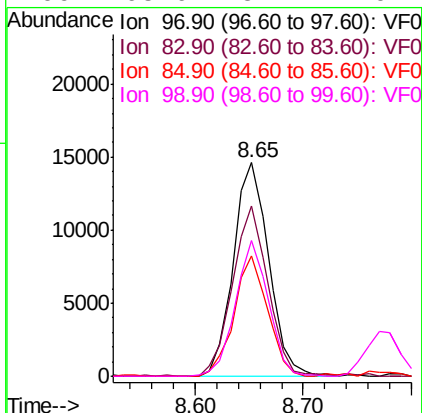
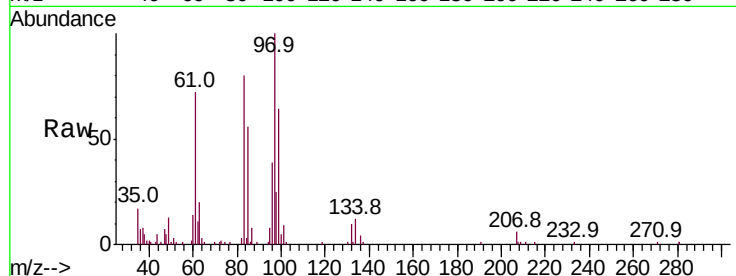
ClientSampleId :

VF0512SBSD01

Tot Ion:	97	Resp:	33400
Ion	Ratio	Lower	Upper
97	100		
83	79.8	68.5	102.7
85	56.2	45.4	68.2
99	63.6	52.7	79.1

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#56

Ethyl methacrylate

Concen: 17.170 ug/l

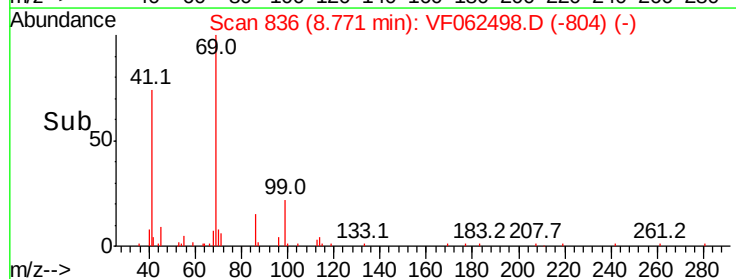
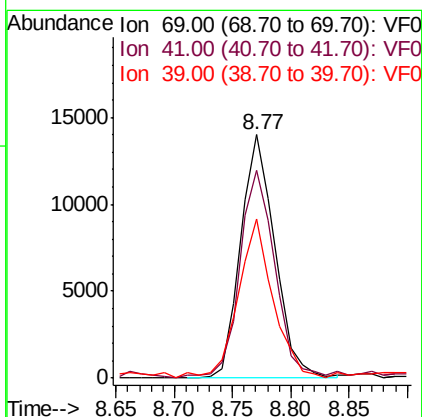
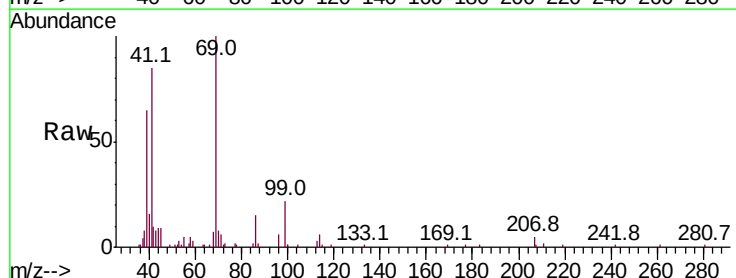
RT: 8.77 min Scan# 836

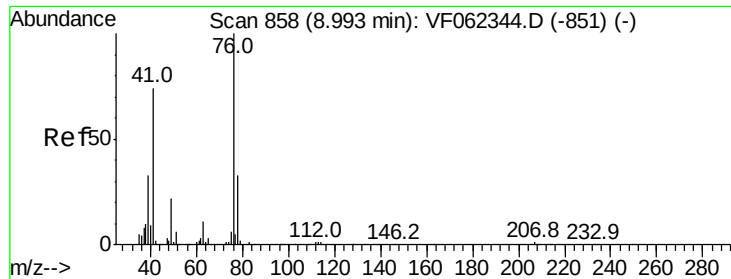
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	69	Resp:	28605
Ion	Ratio	Lower	Upper
69	100		
41	89.2	66.3	99.5
39	66.8	50.1	75.1





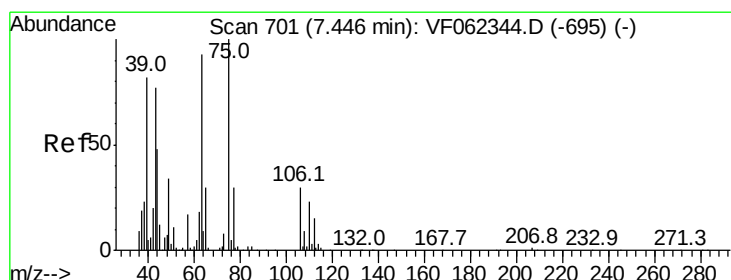
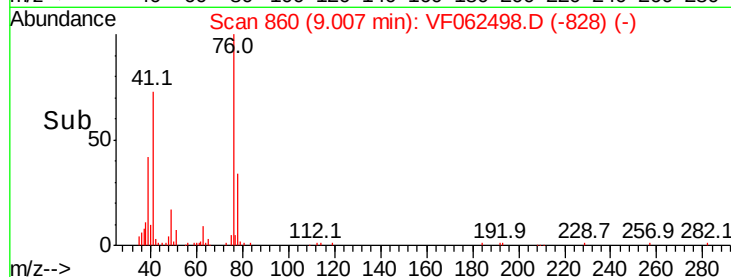
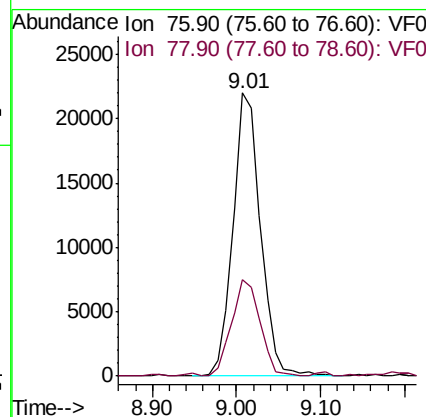
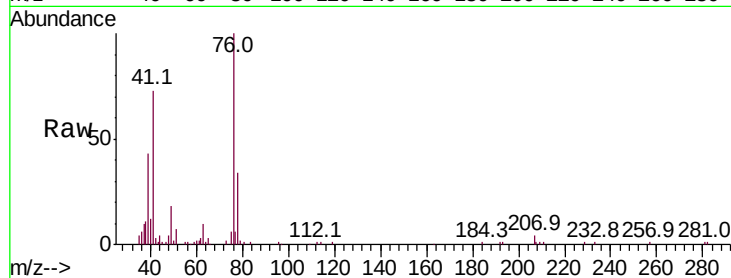
#57
 1,3-Dichloropropane
 Concen: 20.940 ug/l
 RT: 9.01 min Scan# 860
 Delta R.T. 0.01 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBSD01

Tot Ion: 76 Resp: 49919
 Ion Ratio Lower Upper
 76 100
 78 35.1 26.4 39.6

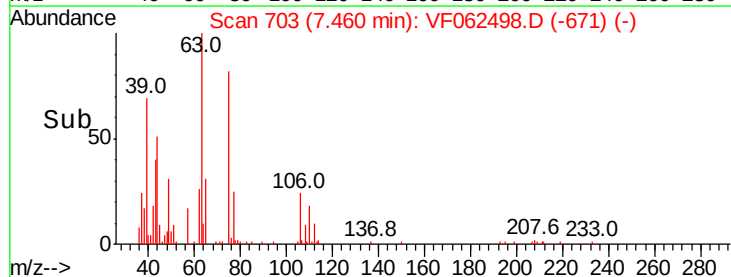
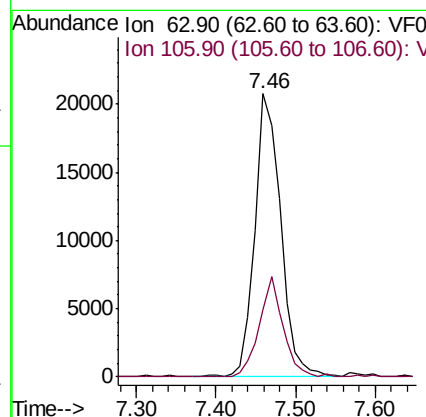
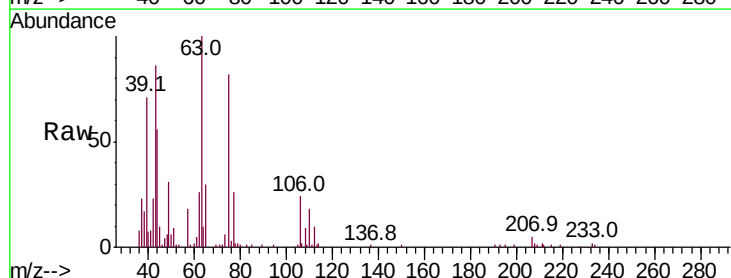
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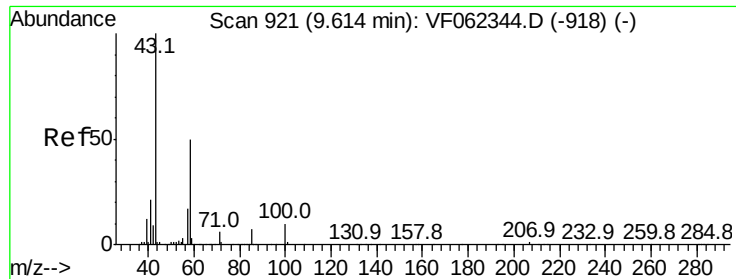
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 5/13/2019 12:26:07 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 92.218 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. 0.01 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion: 63 Resp: 46188
 Ion Ratio Lower Upper
 63 100
 106 32.5 25.8 38.8





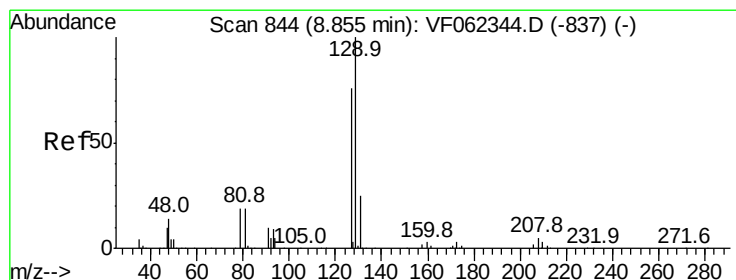
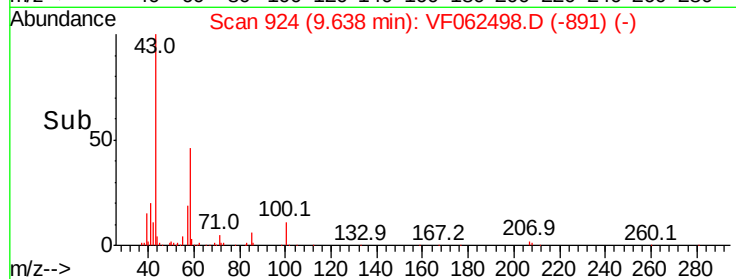
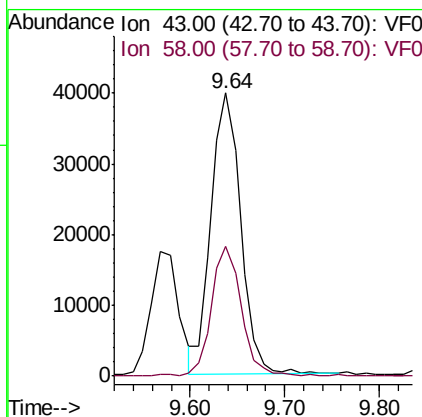
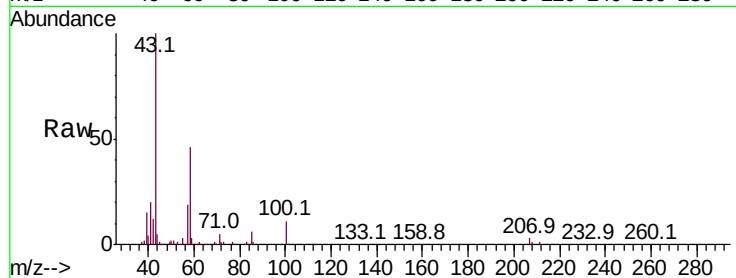
#59
2-Hexanone
Concen: 99.820 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion: 43 Resp: 87076
Ion Ratio Lower Upper
43 100
58 46.6 24.3 73.0

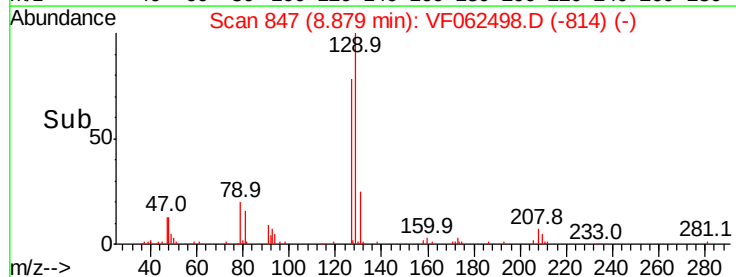
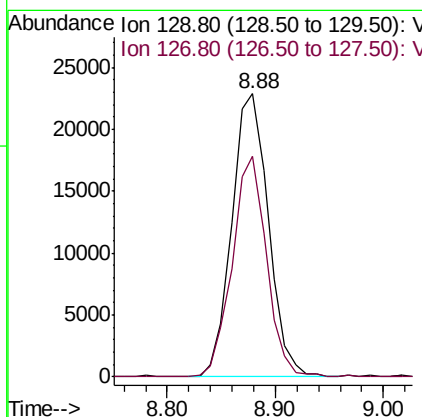
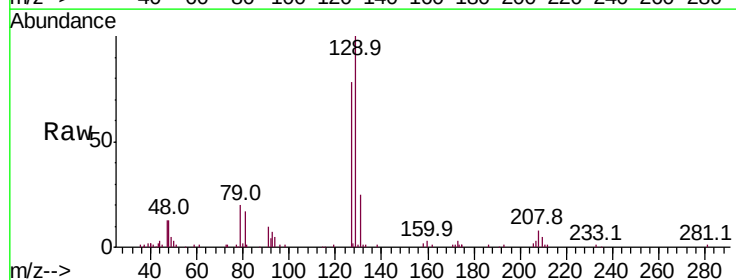
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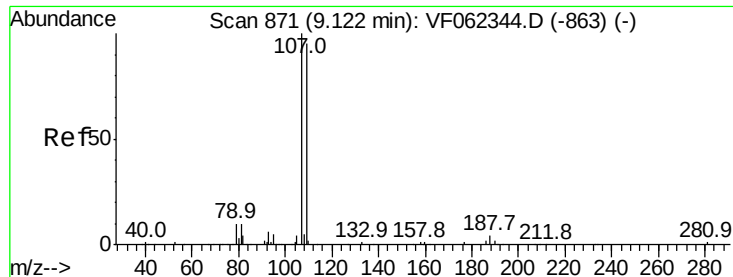
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#60
Dibromochloromethane
Concen: 20.789 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion: 129 Resp: 53661
Ion Ratio Lower Upper
129 100
127 73.5 38.5 115.3





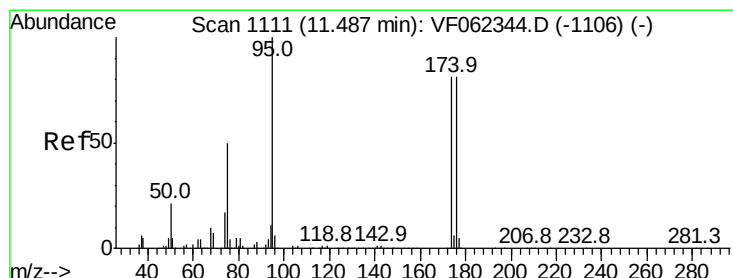
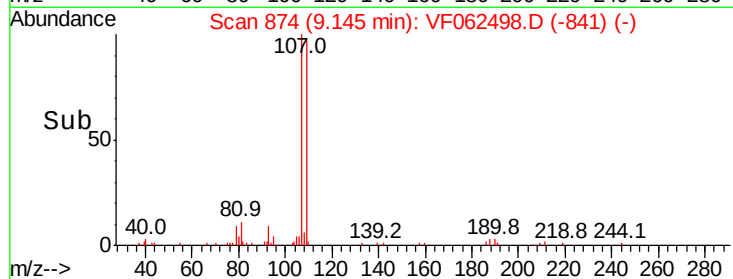
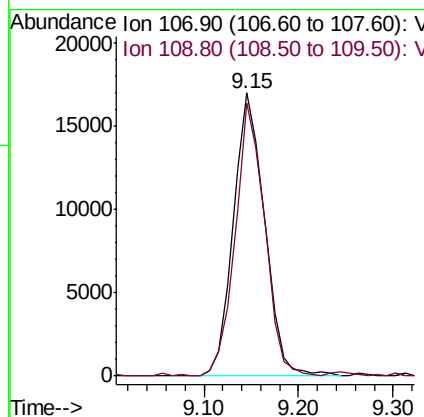
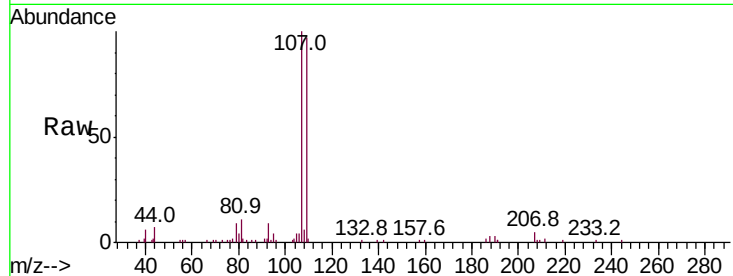
#61
 1,2-Dibromoethane
 Concen: 20.990 ug/l
 RT: 9.15 min Scan# 874
 Delta R.T. 0.02 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.8	75.2	112.8

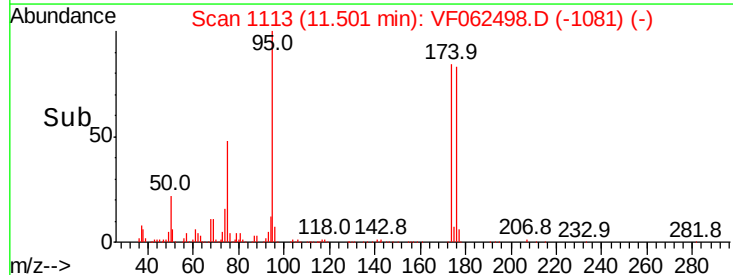
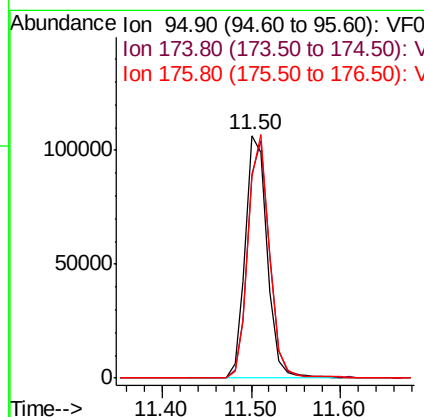
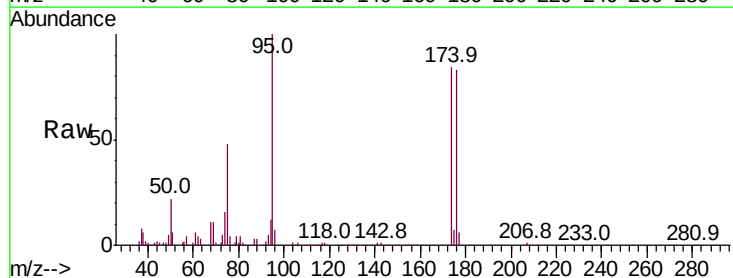
Manual Integrations
 APPROVED

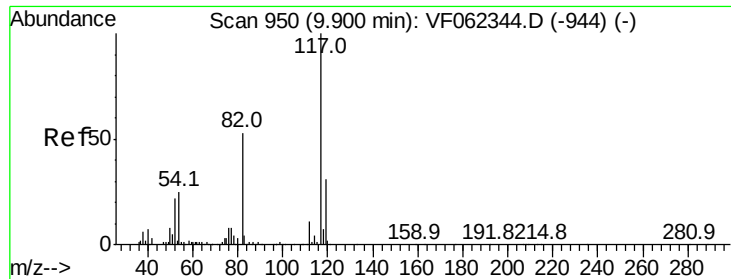
MMDadoda
 5/13/2019 12:26:07 PM



#62
 4-Bromofluorobenzene
 Concen: 48.990 ug/l
 RT: 11.50 min Scan# 1113
 Delta R.T. 0.01 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.6	0.0	191.8
176	96.8	0.0	193.2





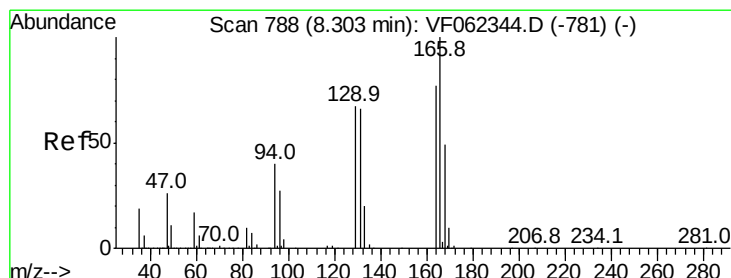
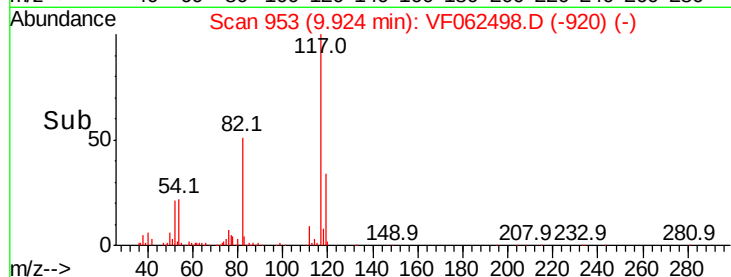
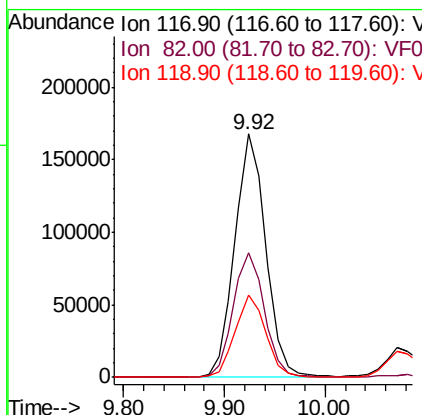
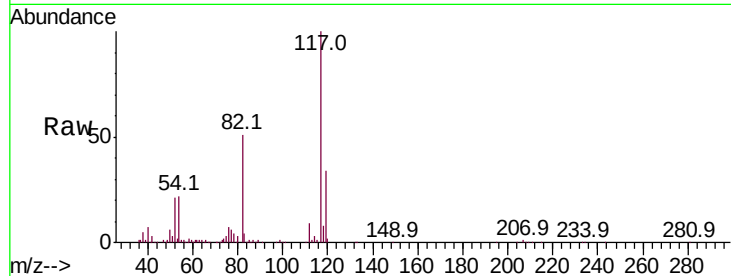
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	359964		
82	51.0		42.2	63.2
119	33.6		25.0	37.4

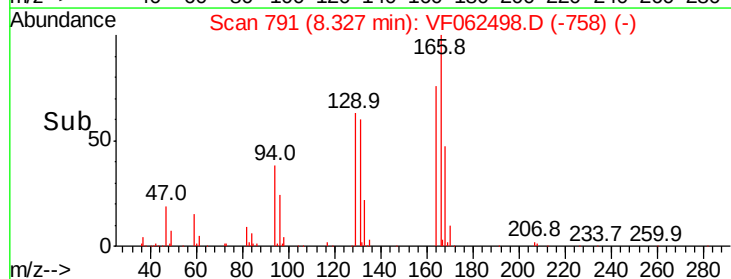
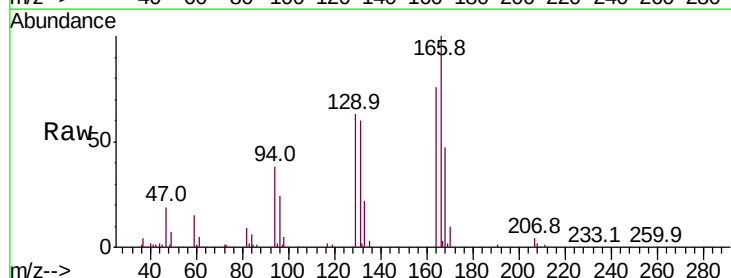
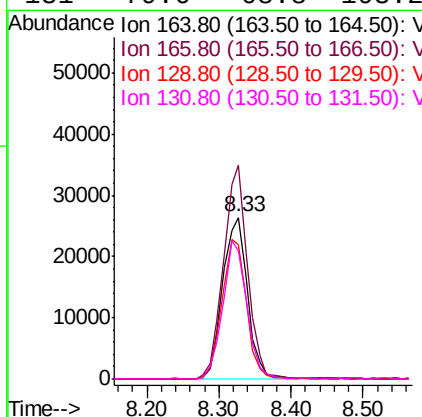
Manual Integrations
APPROVED

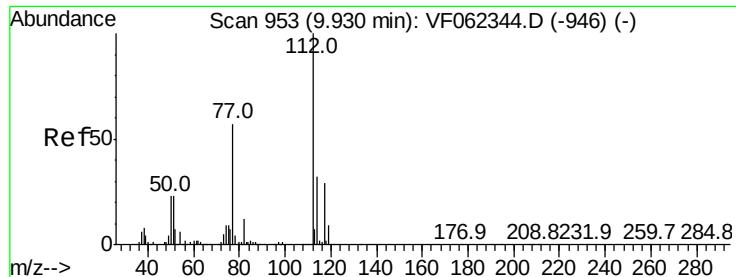
MMDadoda
5/13/2019 12:26:07 PM



#64
Tetrachloroethene
Concen: 21.603 ug/l
RT: 8.33 min Scan# 791
Delta R.T. 0.02 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	63130		
166	132.2		104.2	156.4
129	83.1		69.6	104.4
131	79.6		68.8	103.2





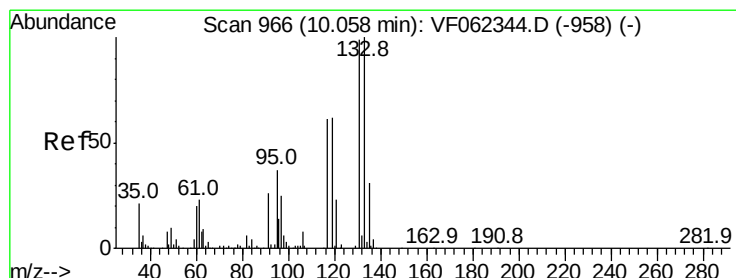
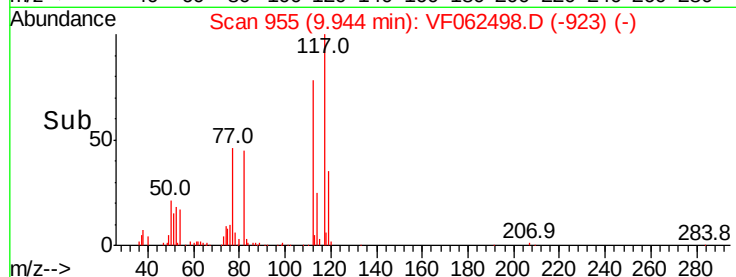
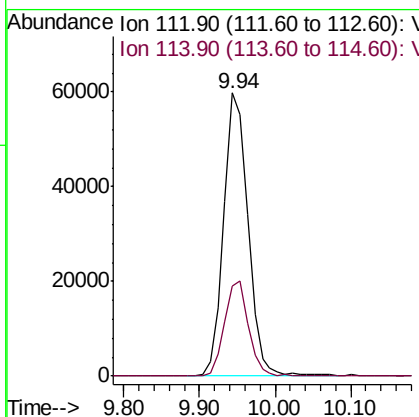
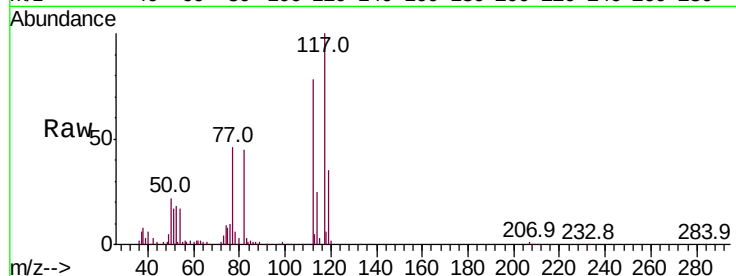
#65
Chlorobenzene
Concen: 22.375 ug/l
RT: 9.94 min Scan# 955
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	133263		
114	31.7	25.4	38.0	

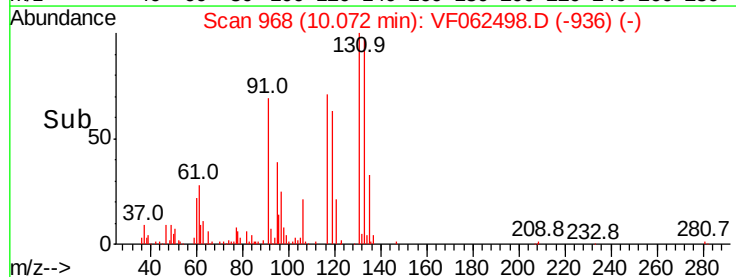
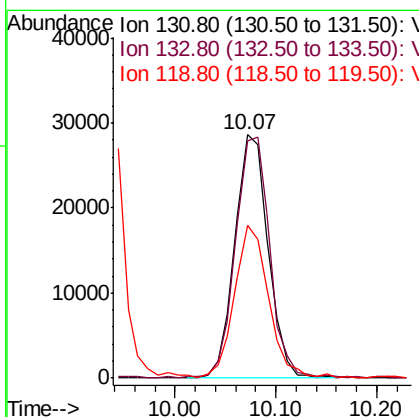
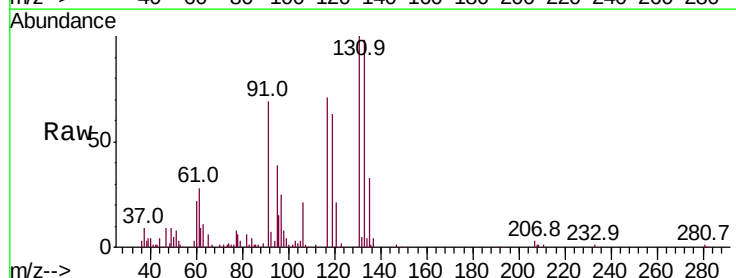
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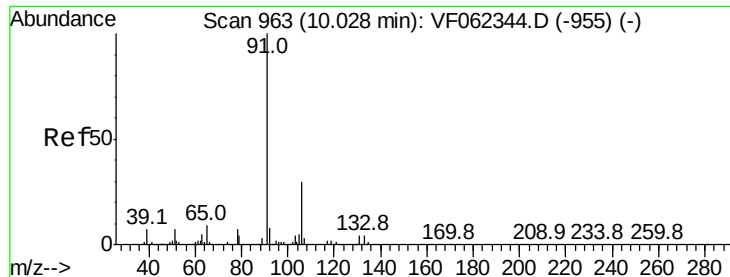
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.986 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	66058		
133	102.0	50.2	150.7	
119	64.4	31.6	95.0	





#67

Ethyl Benzene

Concen: 23.094 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBS01

Tot Ion: 91 Resp: 240856

Ion Ratio Lower Upper

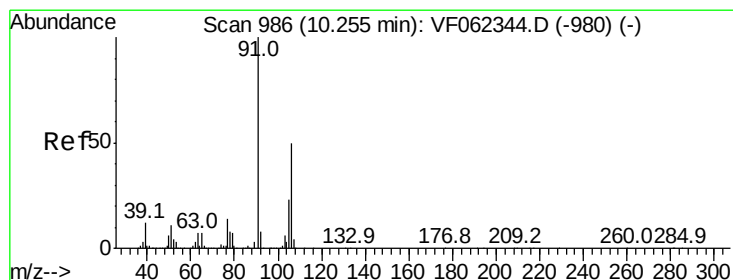
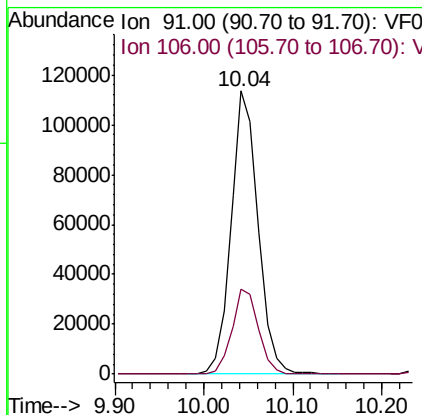
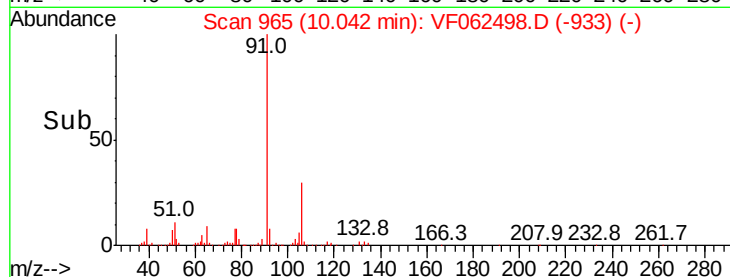
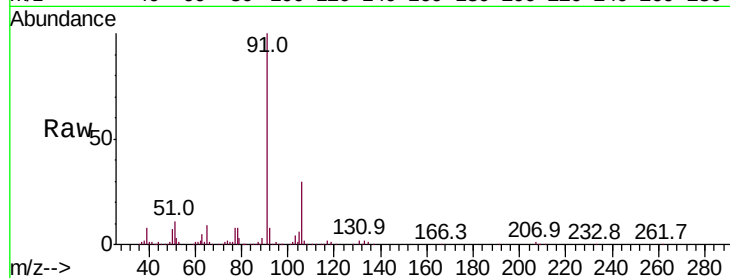
91 100

106 29.9 24.1 36.1

Manual Integrations
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#68

m/p-Xylenes

Concen: 46.567 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VF062498.D

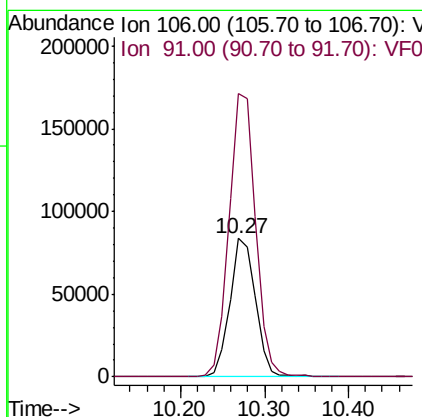
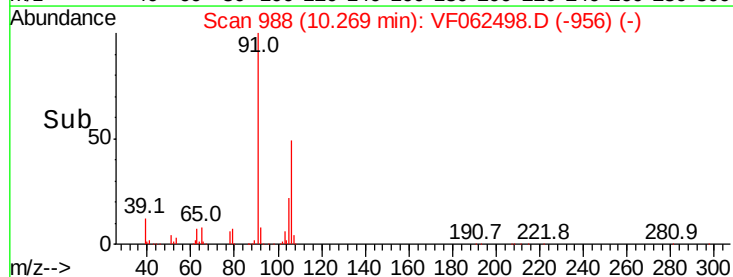
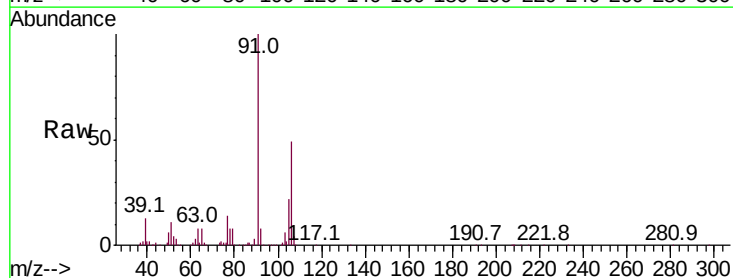
Acq: 12 May 2019 12:57

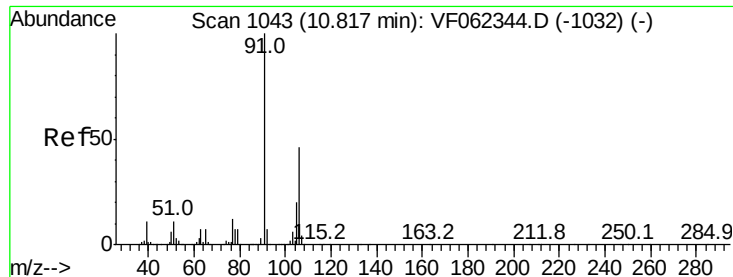
Tgt Ion: 106 Resp: 179188

Ion Ratio Lower Upper

106 100

91 209.4 167.4 251.2





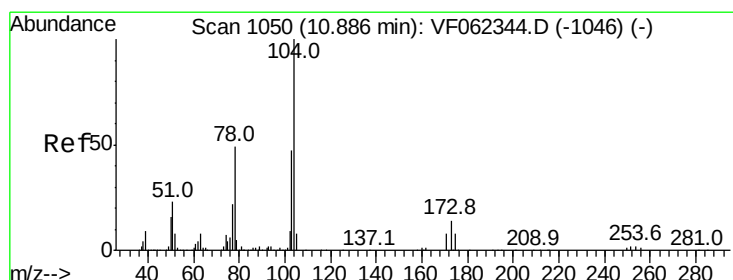
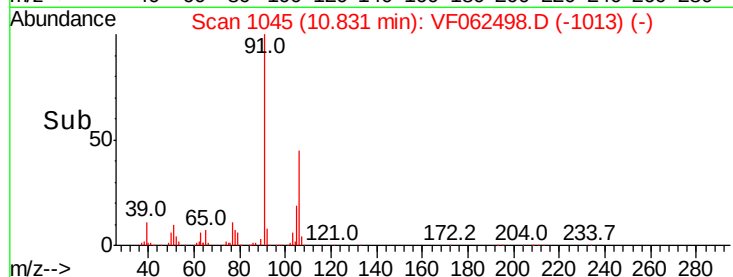
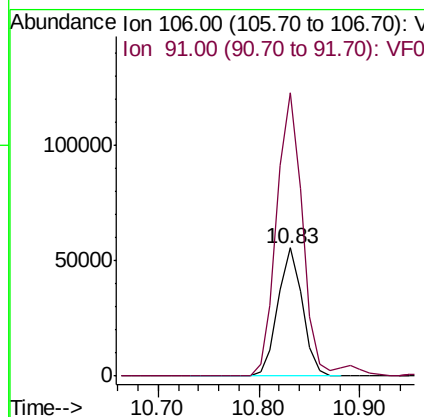
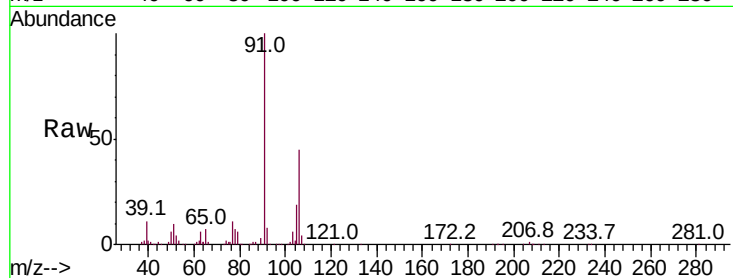
#69
o-Xylene
Concen: 22.682 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	229.1	111.3	333.8

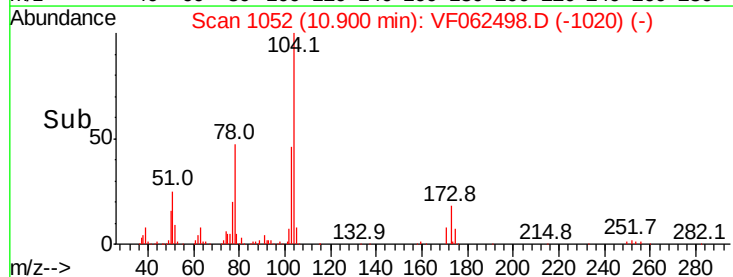
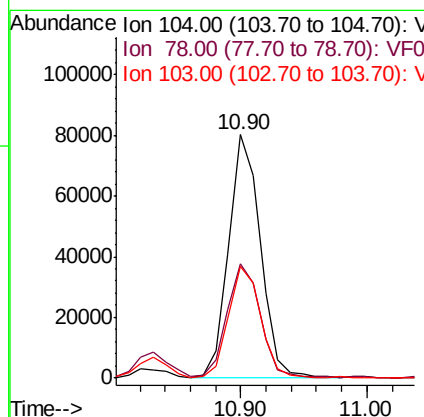
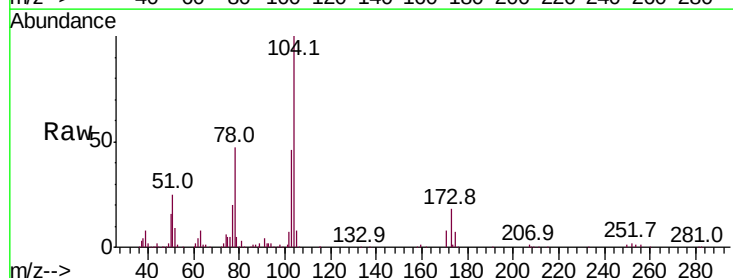
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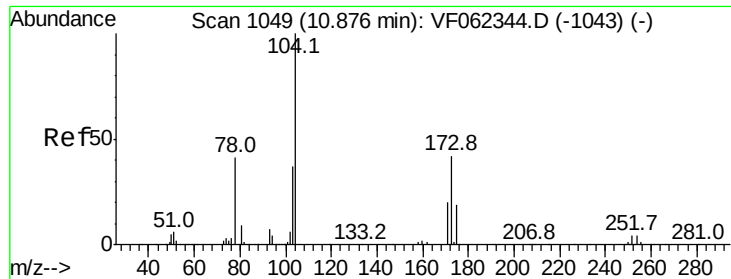
MMDadoda
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#70
Styrene
Concen: 22.181 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.3	39.5	59.3
103	47.2	38.4	57.6





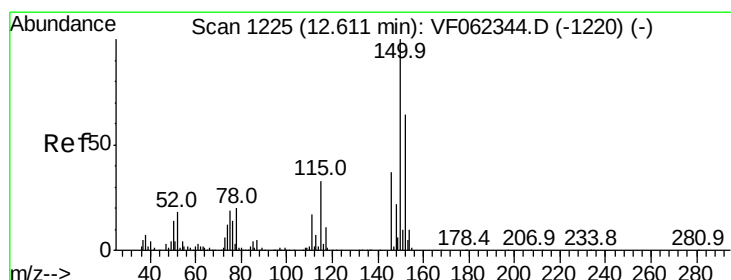
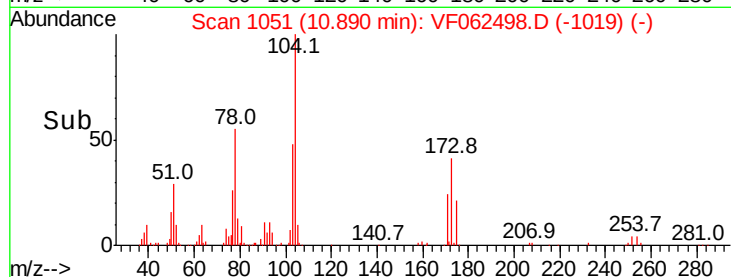
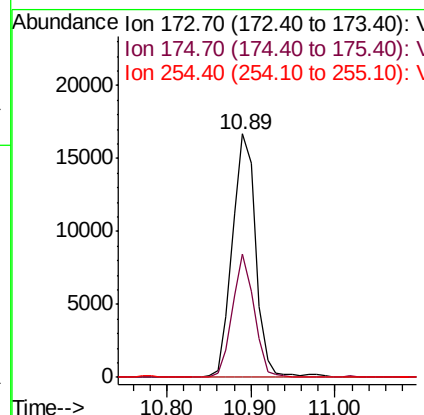
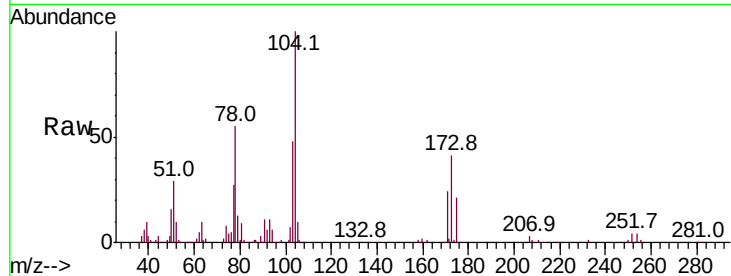
#71
Bromoform
Concen: 19.640 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.6	23.8	71.2
254	0.0	0.1	0.1#

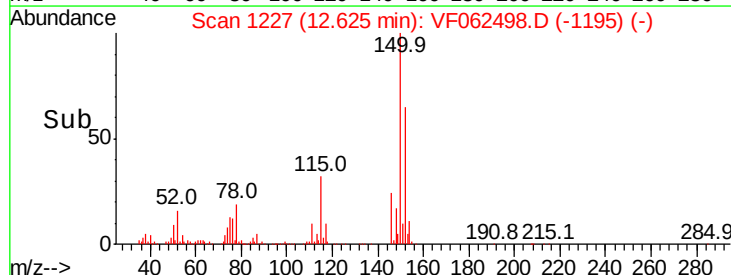
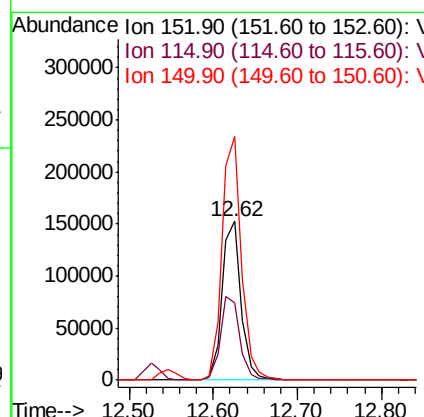
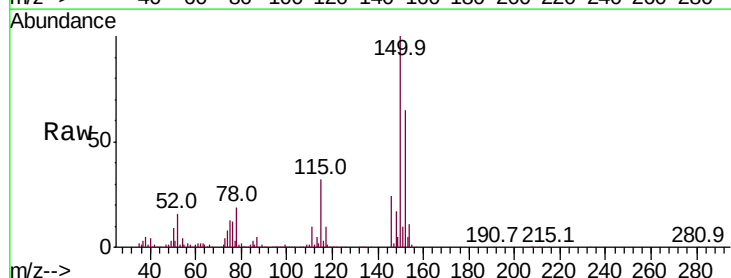
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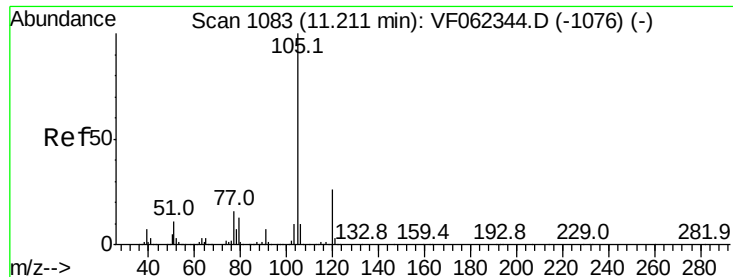
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.6	26.4	79.2
150	156.6	0.0	335.0





#73

Isopropylbenzene

Concen: 21.663 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleId :

VF0512SBSD01

Tot Ion:105 Resp: 306471

Ion Ratio Lower Upper

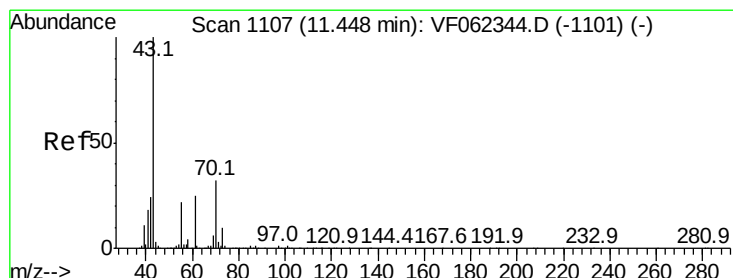
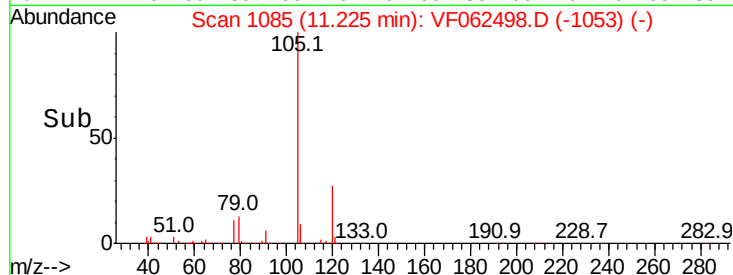
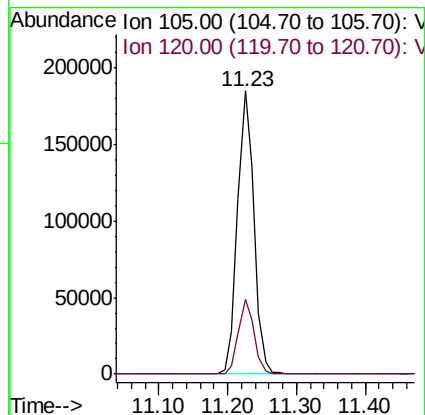
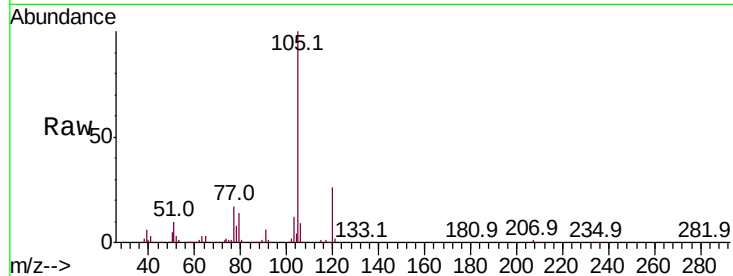
105 100

120 25.4 12.7 38.0

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#74

N-ethyl acetate

Concen: 19.920 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion: 43 Resp: 60502

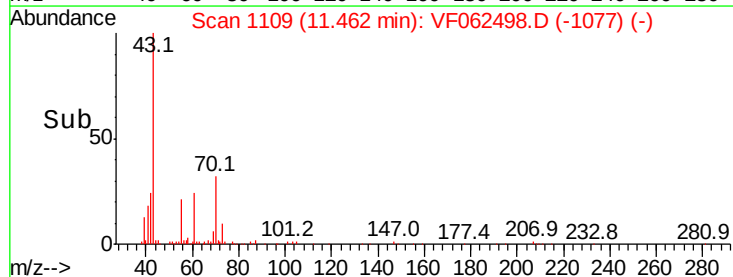
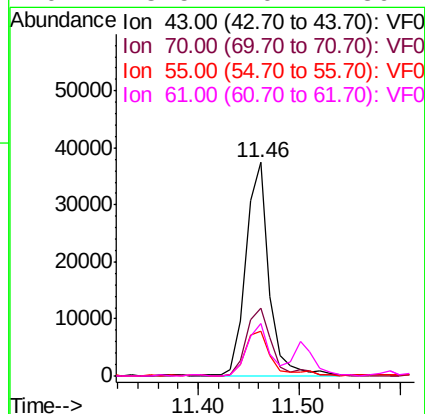
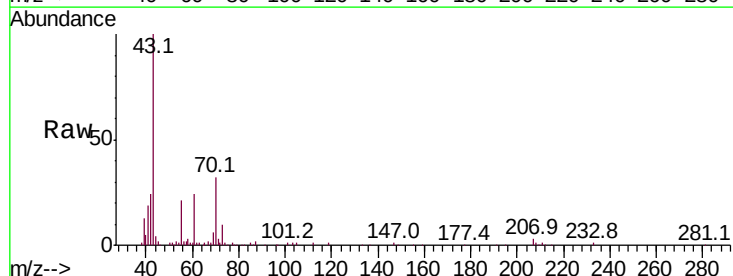
Ion Ratio Lower Upper

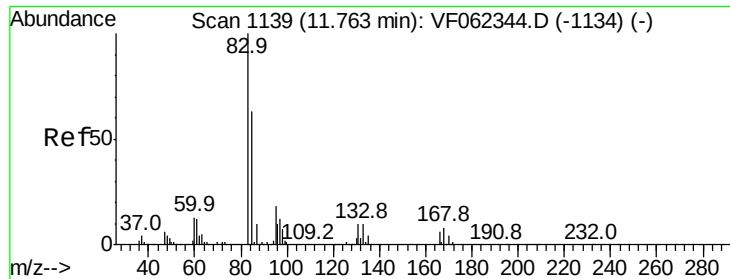
43 100

70 35.6 26.5 39.7

55 24.0 17.8 26.6

61 23.5 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.151 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

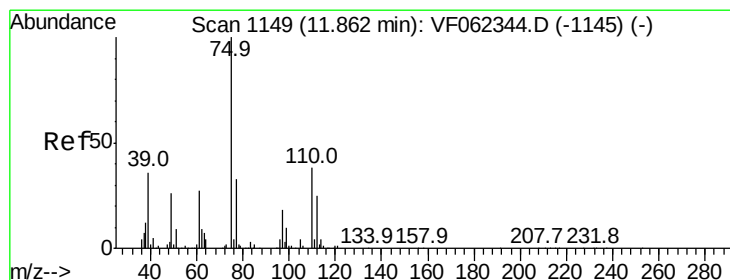
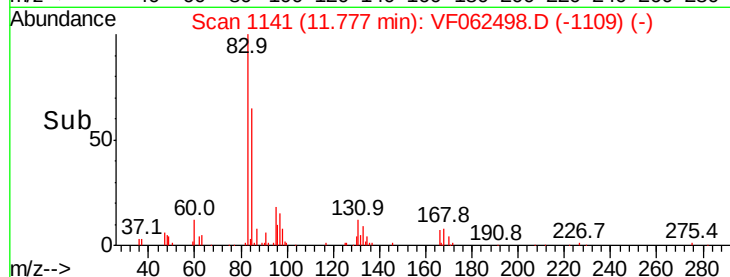
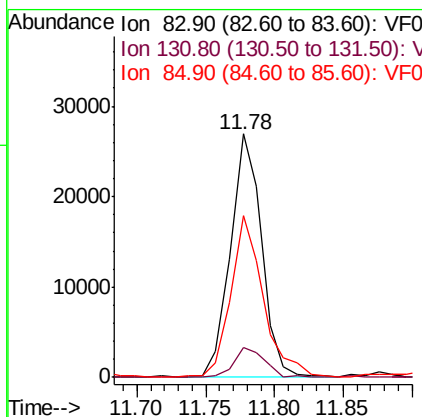
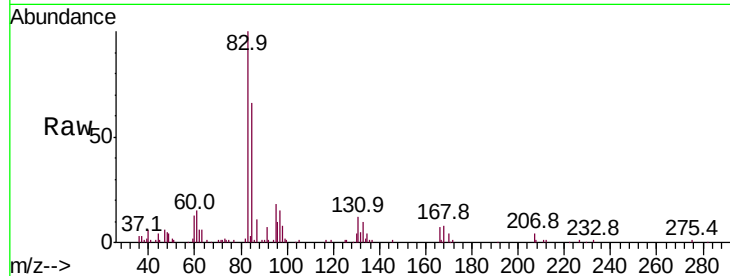
ClientSampled :

VF0512SBS01

Tot Ion:	83	Resp:	42421
Ion Ratio	Lower	Upper	
83	100		
131	11.9	5.8	17.4
85	69.8	35.3	105.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.534 ug/l

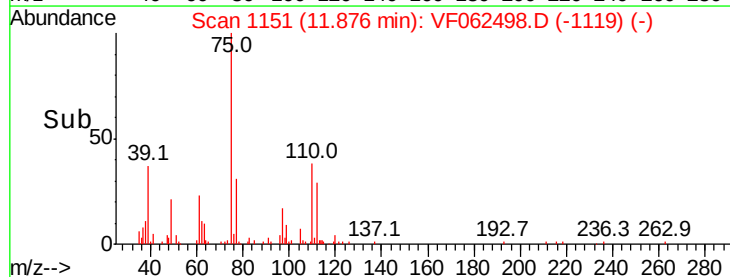
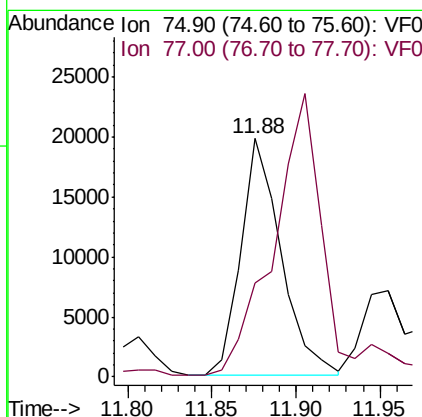
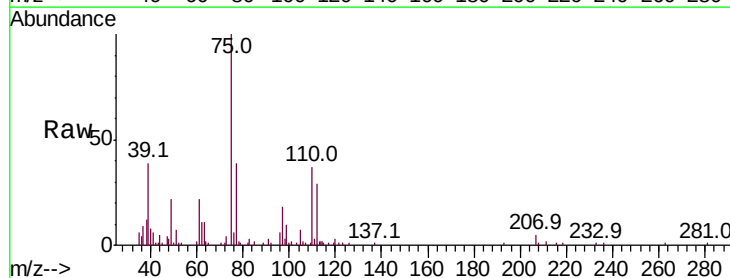
RT: 11.88 min Scan# 1151

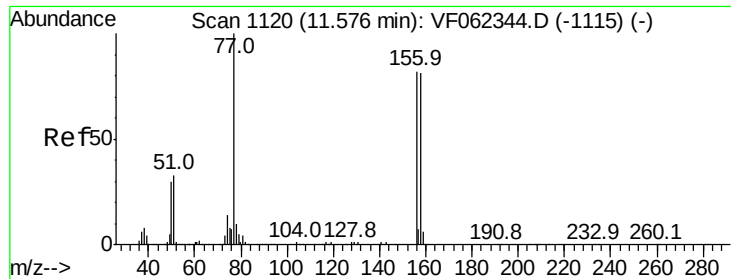
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	75	Resp:	33013
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





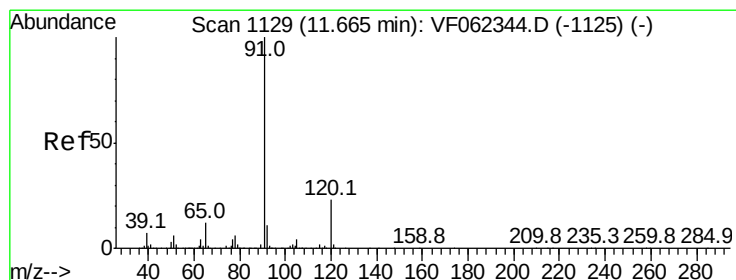
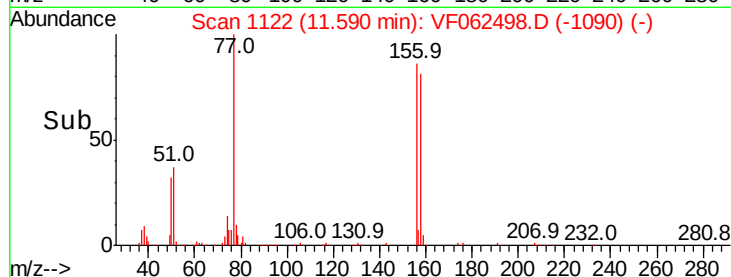
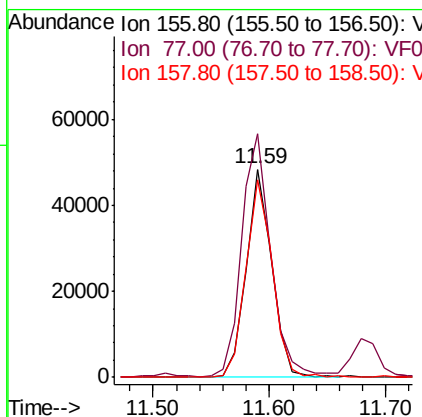
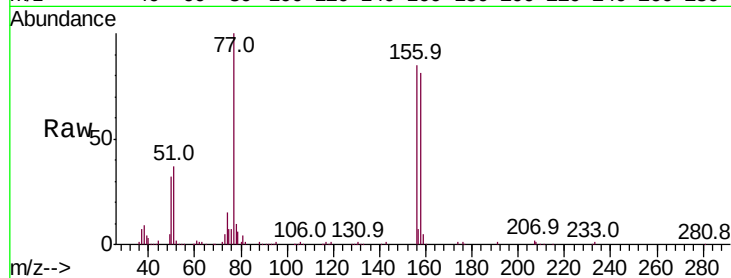
#77
Bromobenzene
Concen: 19.787 ug/l
RT: 11.59 min Scan# 1122
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	132.5	64.8	194.3
158	99.4	49.1	147.3

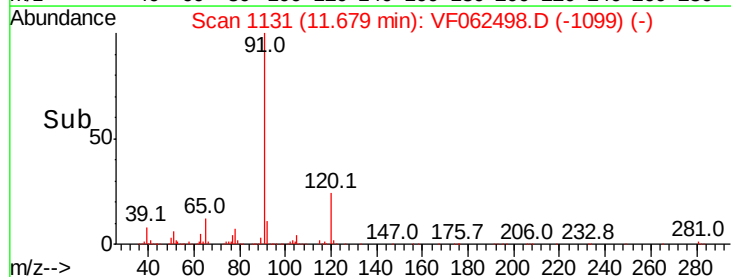
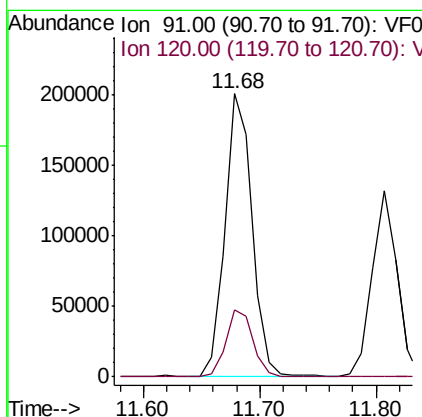
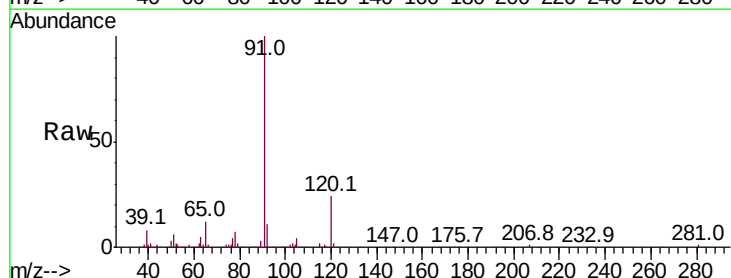
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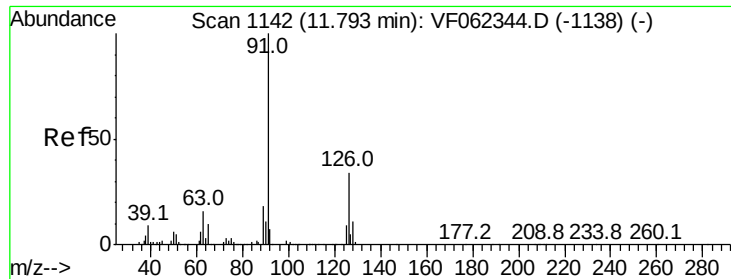
MMDadoda
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#78
n-propylbenzene
Concen: 21.375 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.9	35.5





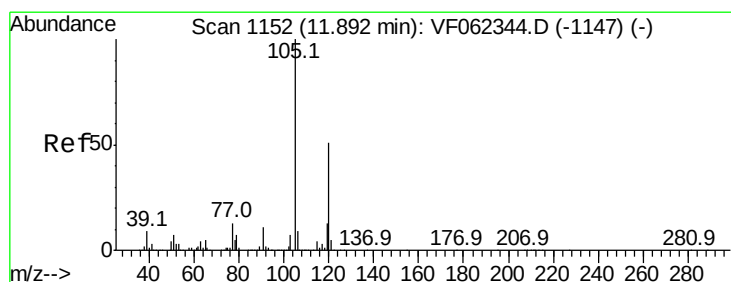
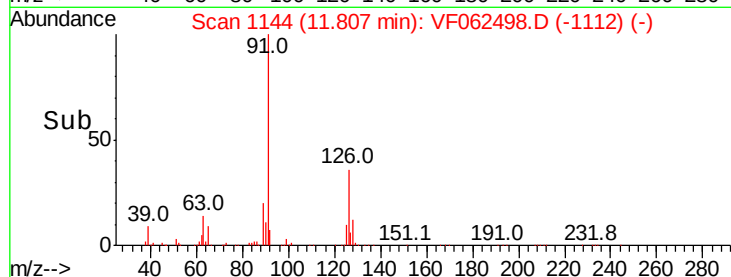
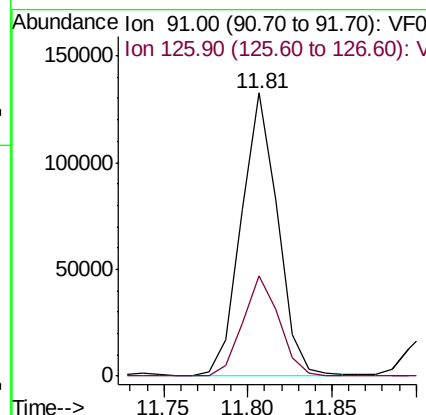
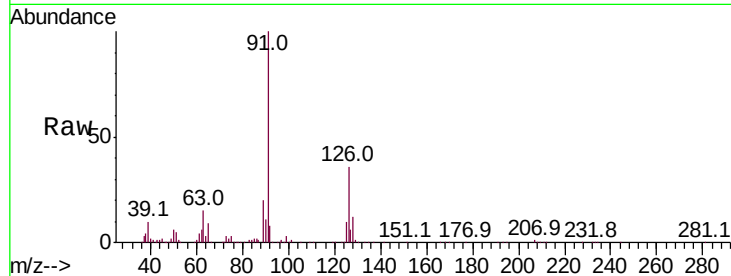
#79
2-Chlorotoluene
Concen: 21.064 ug/l
RT: 11.81 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.8	53.4

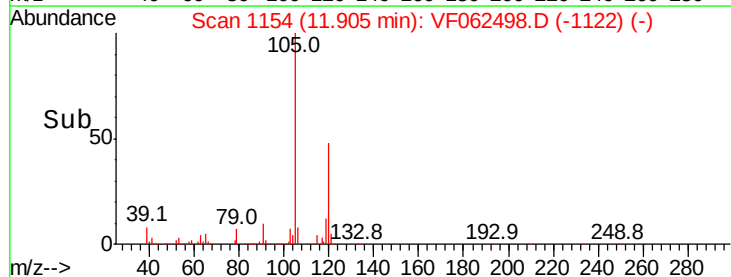
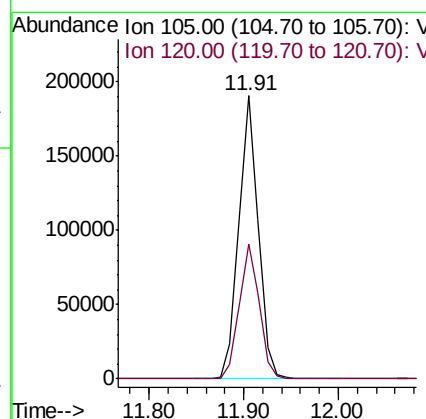
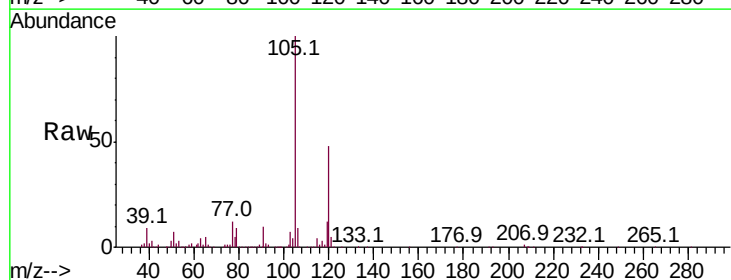
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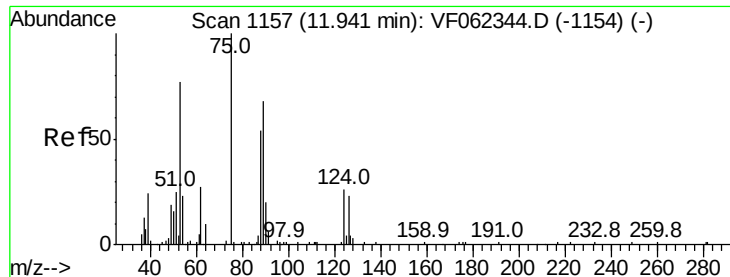
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 22.072 ug/l
RT: 11.91 min Scan# 1154
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.6	74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.590 ug/l m

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

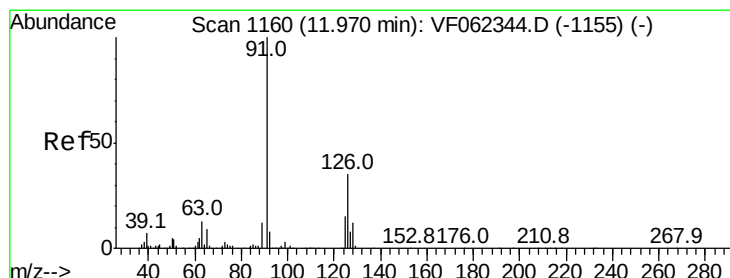
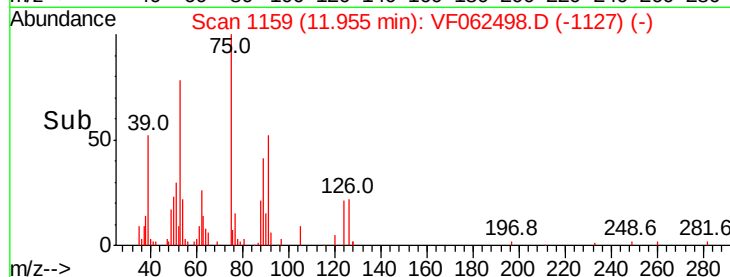
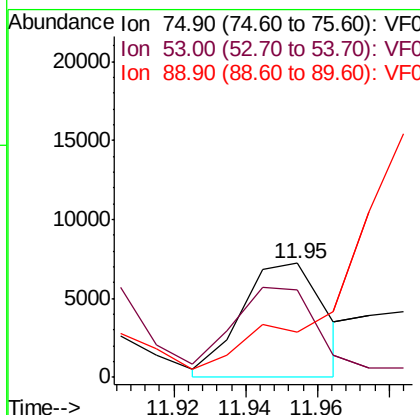
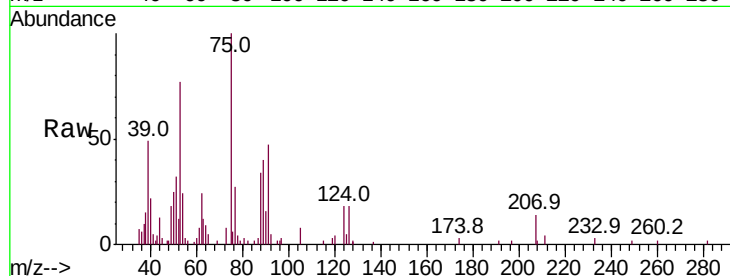
ClientSampleId :

VF0512SBSD01

Tot Ion:	75	Resp:	11809
Ion Ratio	Lower	Upper	
75	100		
53	85.5	71.9	107.9
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.992 ug/l

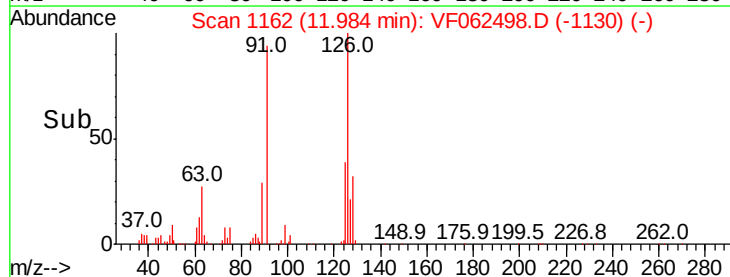
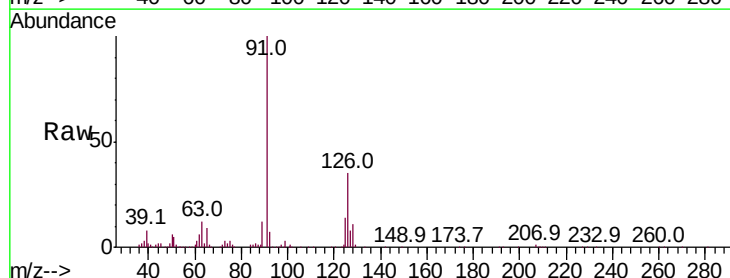
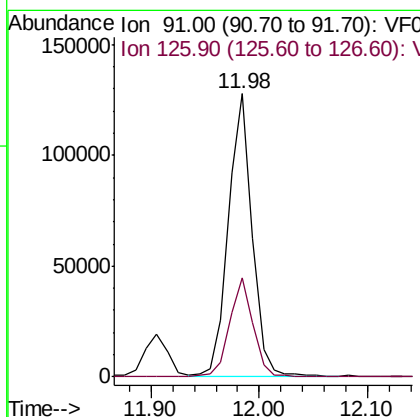
RT: 11.98 min Scan# 1162

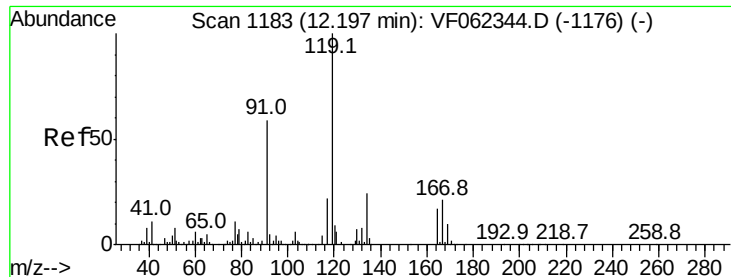
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	91	Resp:	194180
Ion Ratio	Lower	Upper	
91	100		
126	35.6	17.7	53.1





#83

tert-Butylbenzene

Concen: 21.167 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

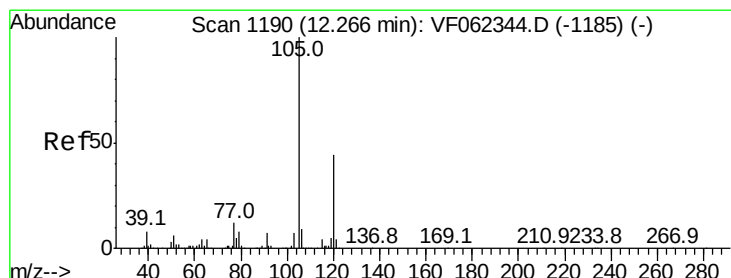
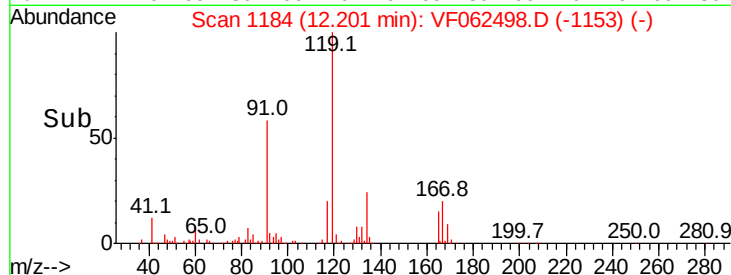
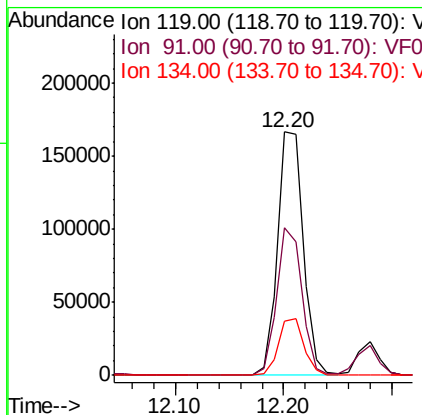
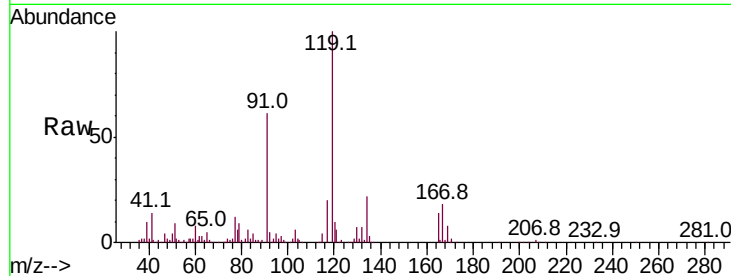
ClientSampleId :

VF0512SBSD01

Tot Ion:	119	Resp:	275848
Ion Ratio	Lower	Upper	
119	100		
91	58.9	30.4	91.3
134	23.2	11.9	35.7

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#84

1,2,4-Trimethylbenzene

Concen: 21.179 ug/l

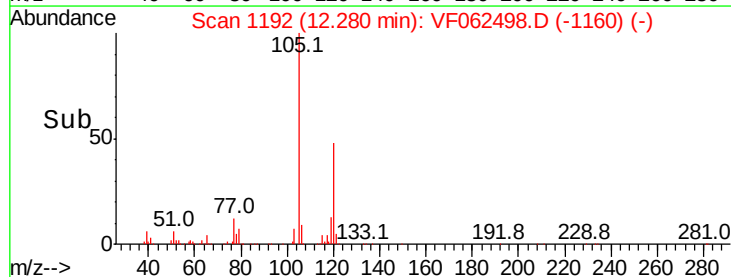
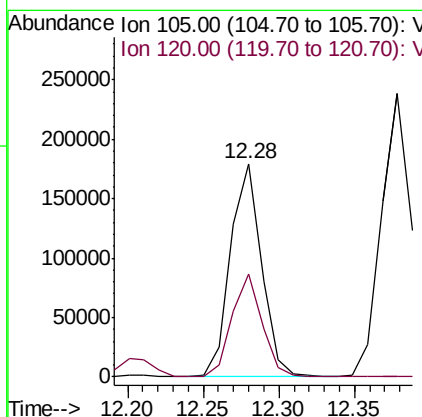
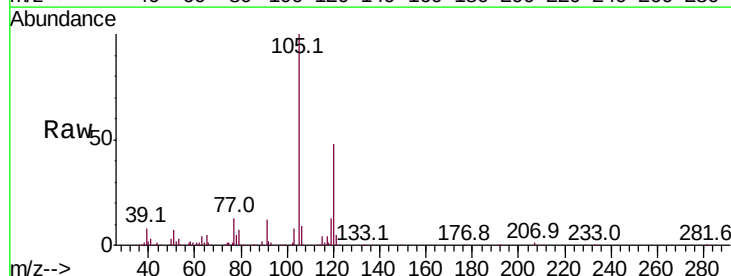
RT: 12.28 min Scan# 1192

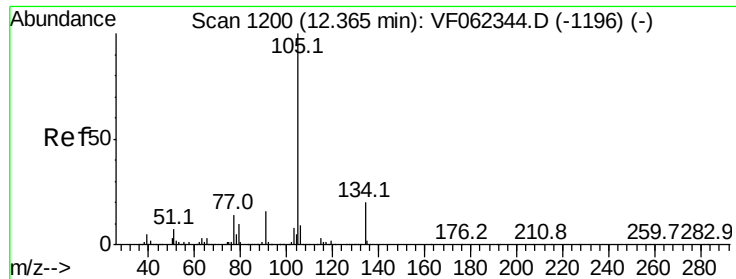
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	105	Resp:	257005
Ion Ratio	Lower	Upper	
105	100		
120	46.7	22.6	67.7





#85

sec-Butylbenzene

Concen: 21.293 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

ClientSampleID :

VF0512SBSD01

Tot Ion:105 Resp: 337745

Ion Ratio Lower Upper

105 100

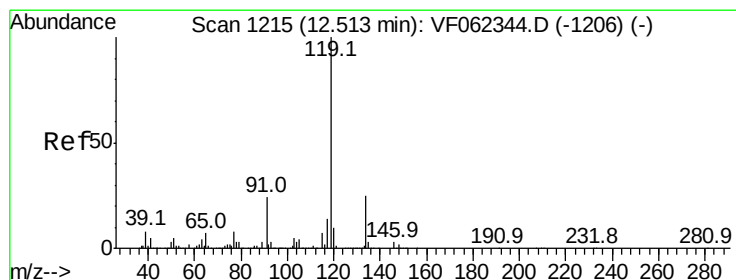
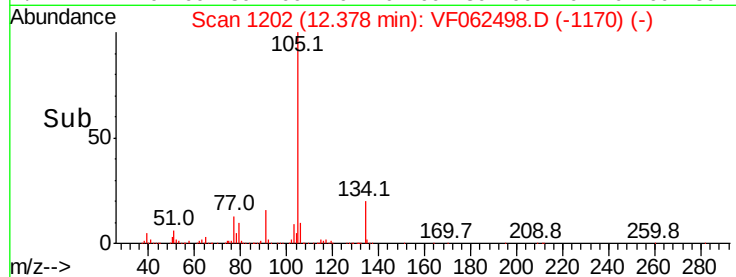
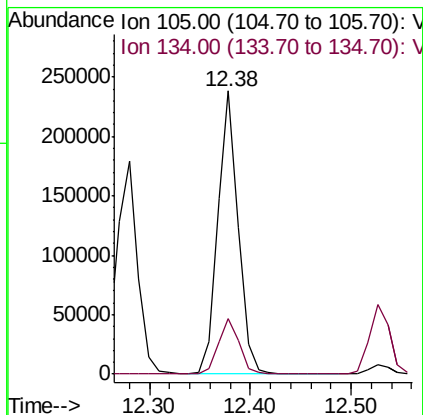
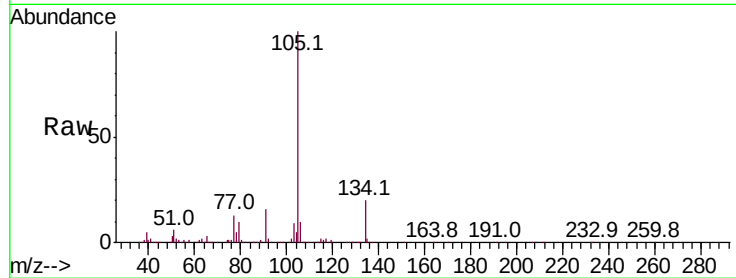
134 20.0 9.8 29.5

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#86

p-Isopropyltoluene

Concen: 22.133 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

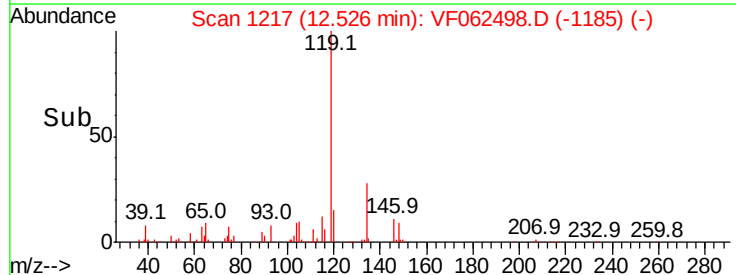
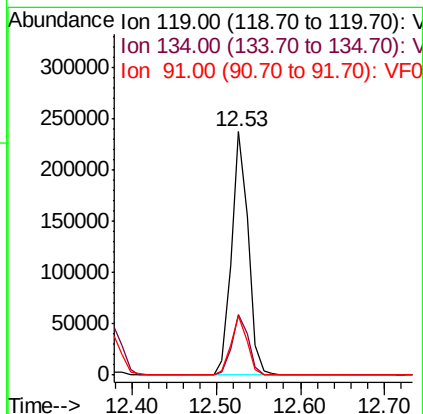
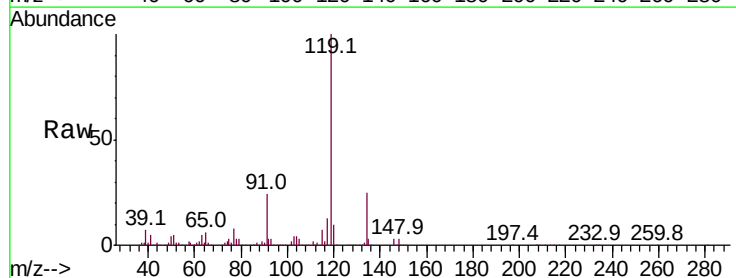
Tgt Ion:119 Resp: 326183

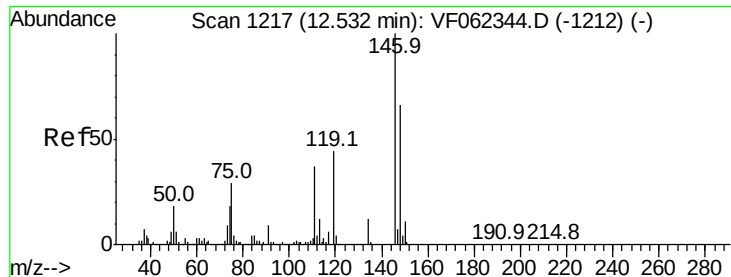
Ion Ratio Lower Upper

119 100

134 25.1 12.9 38.7

91 23.8 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 21.157 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VF062498.D

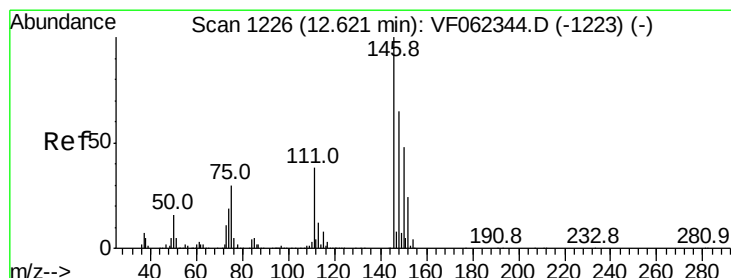
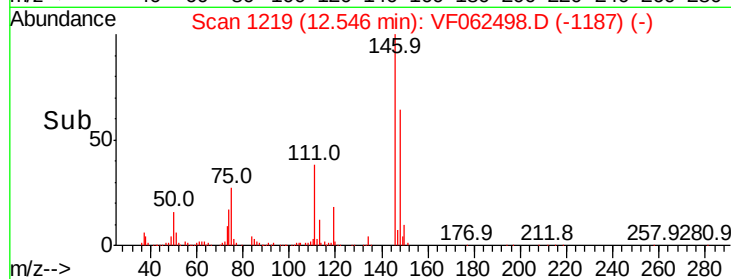
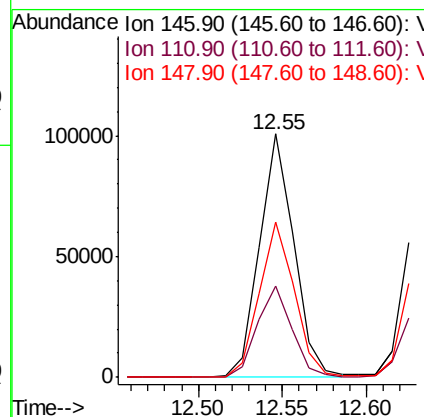
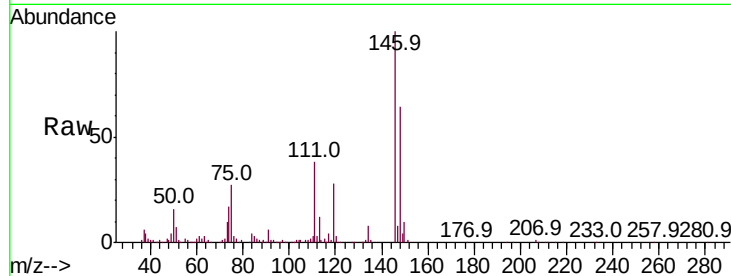
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	143464		
111	37.9	18.3	54.8	
148	65.4	32.3	96.9	

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#88

1,4-Dichlorobenzene

Concen: 21.447 ug/l

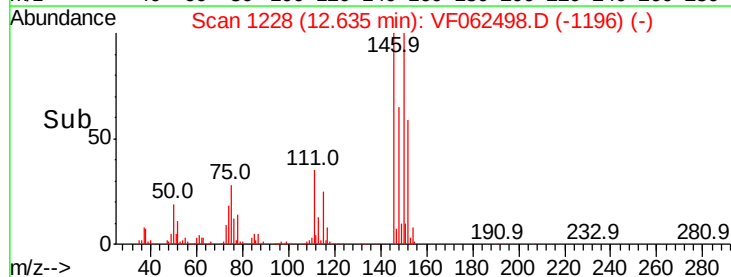
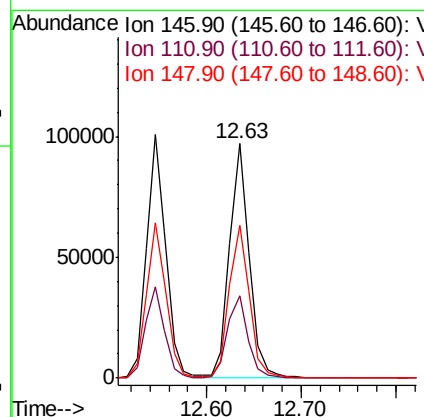
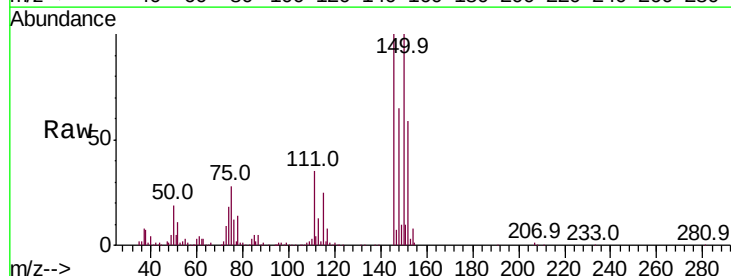
RT: 12.63 min Scan# 1228

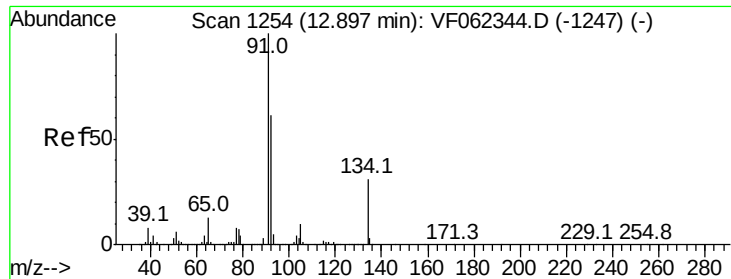
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	140365		
111	36.7	18.8	56.3	
148	66.7	32.2	96.6	





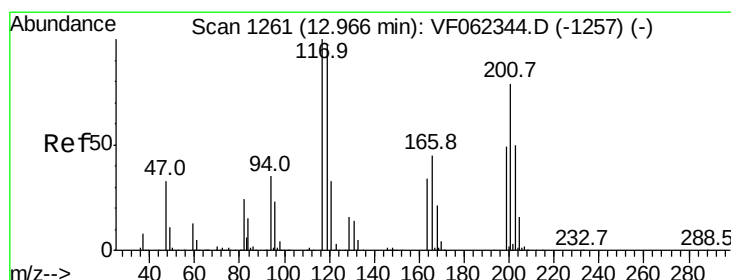
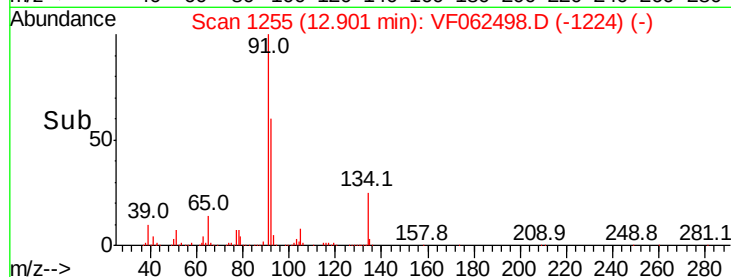
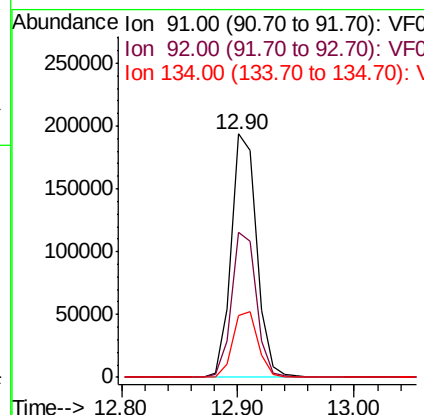
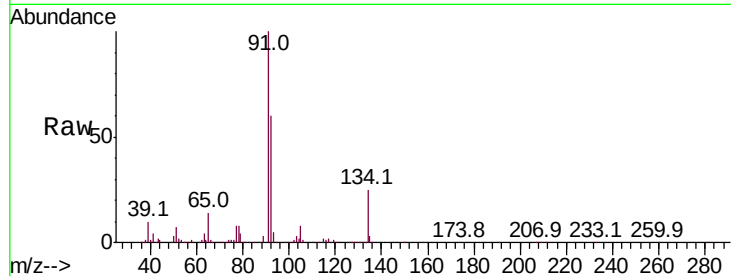
#89
n-Butylbenzene
Concen: 22.504 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	295062		
92	58.1		30.0	90.0
134	26.7		14.1	42.4

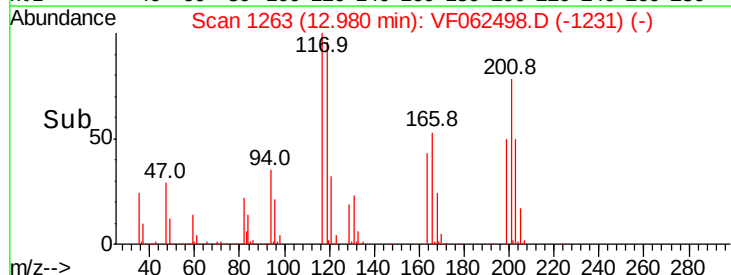
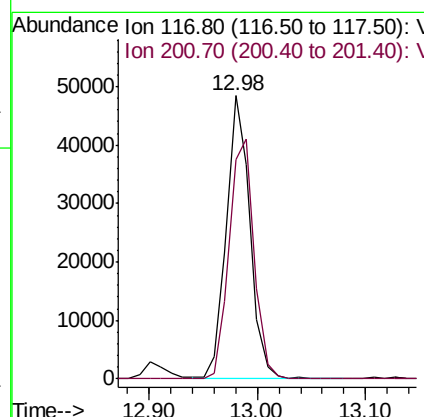
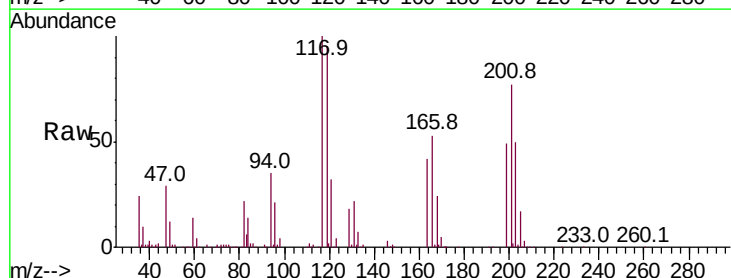
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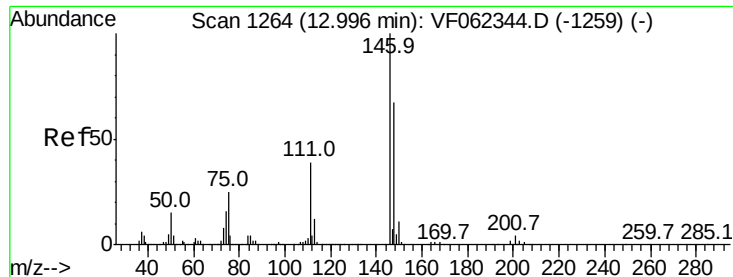
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#90
Hexachloroethane
Concen: 19.936 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	73357		
201	89.9		46.2	138.5





#91

1,2-Dichlorobenzene

Concen: 21.103 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Instrument :

MSVOA_F

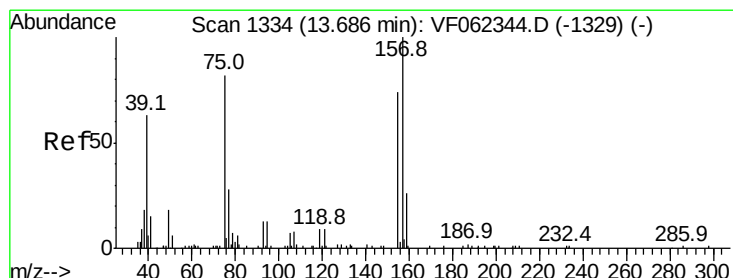
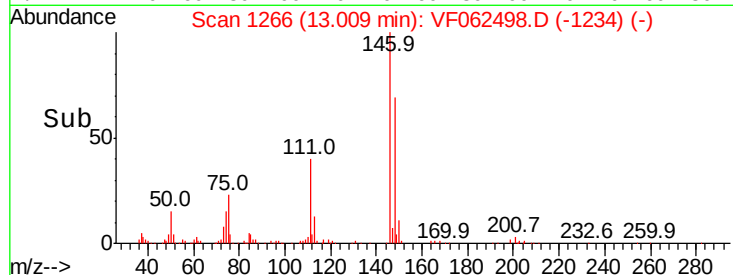
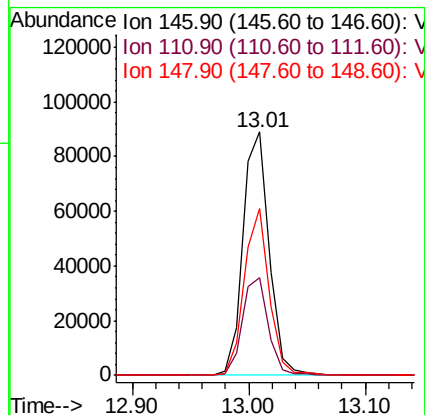
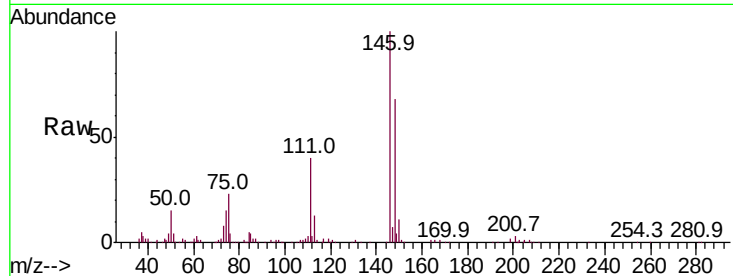
ClientSampleId :

VF0512SBS01

Tot Ion:	146	Resp:	138508
Ion Ratio	Lower	Upper	
146	100		
111	40.0	20.0	60.0
148	65.3	33.1	99.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 17.503 ug/l

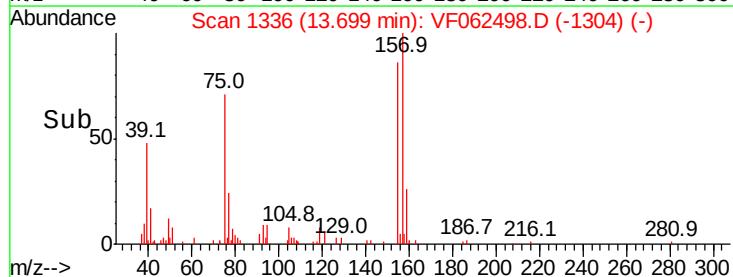
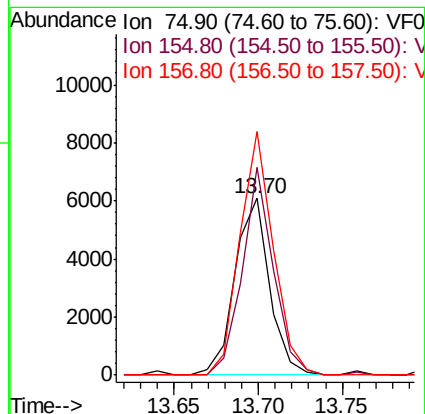
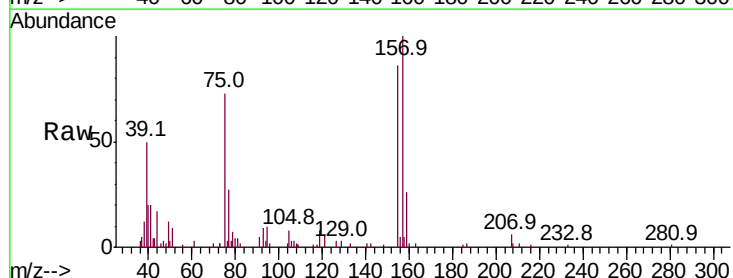
RT: 13.70 min Scan# 1336

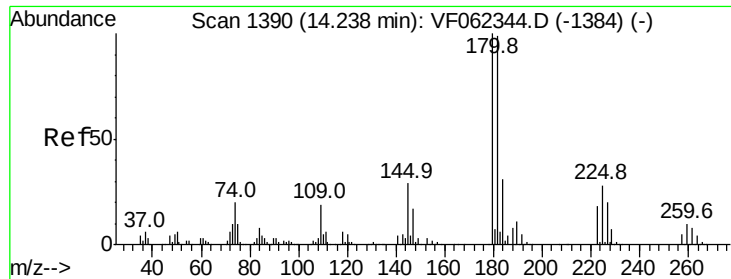
Delta R.T. 0.01 min

Lab File: VF062498.D

Acq: 12 May 2019 12:57

Tgt Ion:	75	Resp:	8686
Ion Ratio	Lower	Upper	
75	100		
155	105.6	51.8	155.4
157	132.7	67.3	201.8





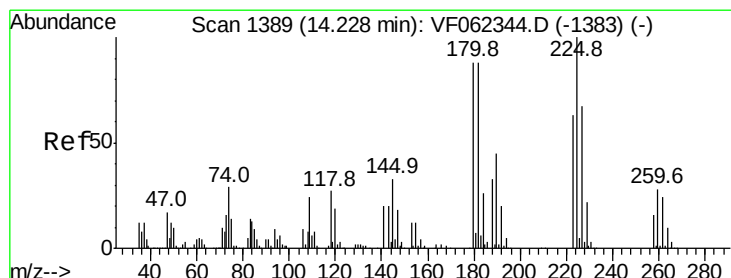
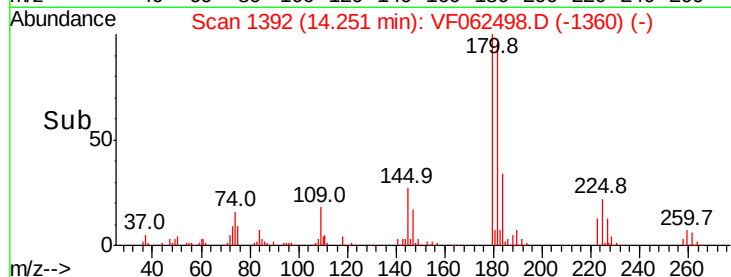
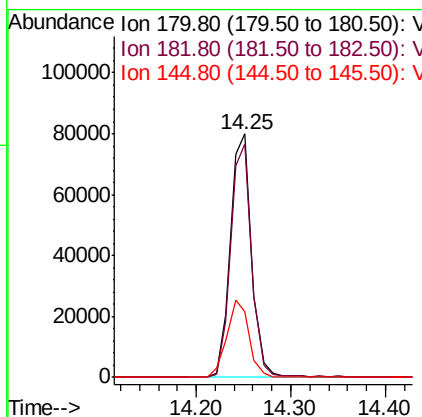
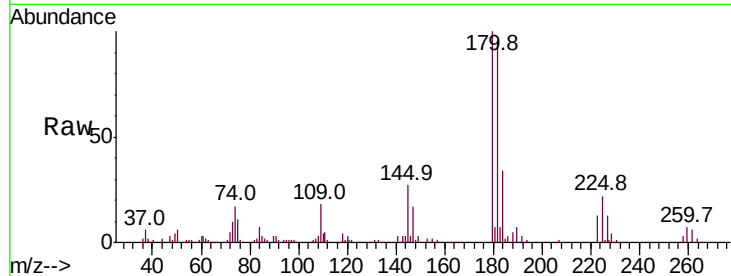
#93
 1,2,4-Trichlorobenzene
 Concen: 21.107 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0512SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	124262		
182	95.0	49.0	147.0	
145	33.1	16.7	50.1	

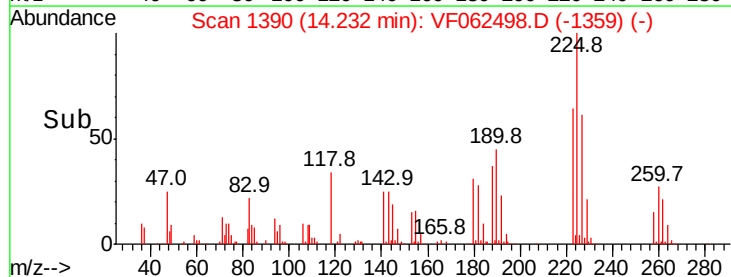
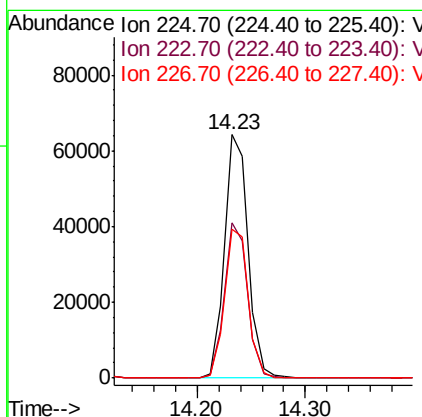
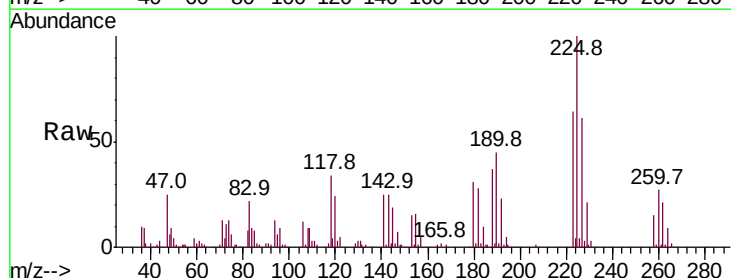
Manual Integrations
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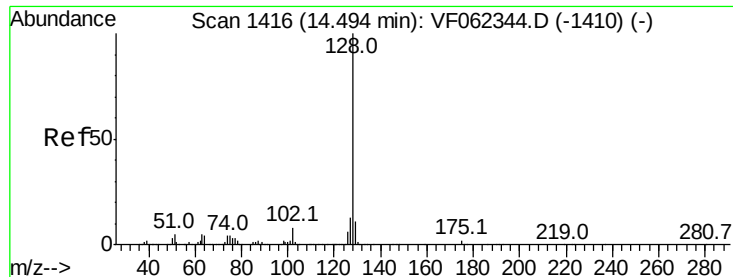
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 22.241 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062498.D
 Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	97591		
223	62.7	31.9	95.5	
227	61.5	33.1	99.5	





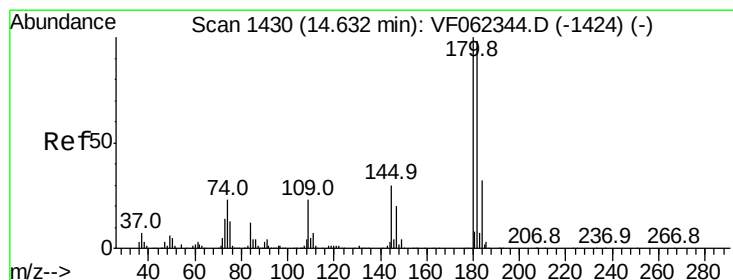
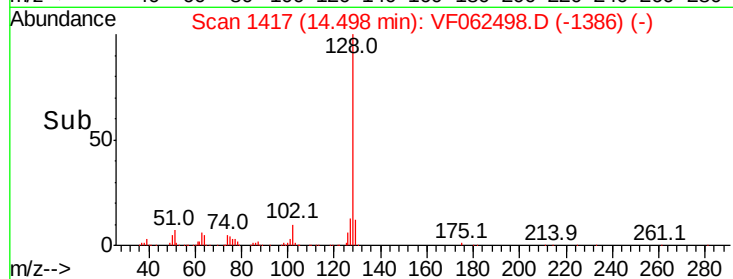
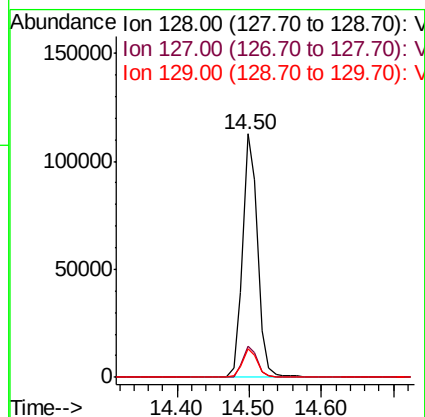
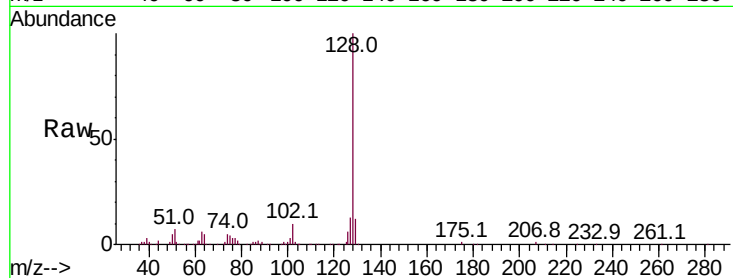
#95
Naphthalene
Concen: 18.630 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Instrument :
MSVOA_F
ClientSampleId :
VF0512SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	164890		
127	12.8	10.5	15.7	
129	11.5	8.6	12.8	

Manual Integrations
APPROVED

MMDadoda
5/13/2019 12:26:07 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.307 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VF062498.D
Acq: 12 May 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	115817		
182	96.0	49.4	148.0	
145	28.2	14.8	44.3	

