

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022819\
 Data File : VF061787.D
 Acq On : 28 Feb 2019 15:01
 Operator : VA/AP
 Sample : VF0228SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/2/2019 4:09:38 AM

Quant Time: Mar 01 00:31:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	302846	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	459952	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	381492	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	233665	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	123498	55.61	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	111.22%	
35) Dibromofluoromethane	4.09	113	176598	51.70	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	103.40%	
50) Toluene-d8	7.54	98	489892	49.89	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.40	95	206115	51.88	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	103.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	94967	27.306	ug/l	96
3) Chloromethane	1.11	50	90795	24.882	ug/l	97
4) Vinyl Chloride	1.14	62	89317	26.330	ug/l	97
5) Bromomethane	1.33	94	57979	24.834	ug/l	81
6) Chloroethane	1.39	64	42244	25.270	ug/l	93
7) Trichlorofluoromethane	1.48	101	104483m	25.537	ug/l	
8) Diethyl Ether	1.63	74	22873	22.183	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	72544	24.578	ug/l	93
10) Methyl Iodide	1.90	142	135825m	24.090	ug/l	
11) Tert butyl alcohol	2.57	59	16471	128.152	ug/l	96
12) 1,1-Dichloroethene	1.80	96	62401m	24.046	ug/l	
13) Acrolein	1.99	56	13530	83.759	ug/l	92
14) Allyl chloride	2.09	41	72761	22.849	ug/l	96
15) Acrylonitrile	2.93	53	46638	102.301	ug/l	92
16) Acetone	2.23	43	60545	127.065	ug/l #	88
17) Carbon Disulfide	1.83	76	191482m	23.474	ug/l	
18) Methyl Acetate	2.34	43	28575	26.621	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	115375	26.014	ug/l	98
20) Methylene Chloride	2.17	84	87269m	33.339	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	64765	22.958	ug/l	97
22) Diisopropyl ether	2.79	45	184116	24.086	ug/l	95
23) Vinyl Acetate	3.18	43	414919	111.132	ug/l	97
24) 1,1-Dichloroethane	2.86	63	112640	24.350	ug/l	99
25) 2-Butanone	4.32	43	116716	112.141	ug/l	95
26) 2,2-Dichloropropane	3.58	77	49127	25.072	ug/l	93
27) cis-1,2-Dichloroethene	3.46	96	86524	23.367	ug/l	98
28) Bromochloromethane	3.70	49	54799	24.689	ug/l	87
29) Tetrahydrofuran	4.05	42	53394	112.872	ug/l	99
30) Chloroform	3.85	83	127944	24.321	ug/l	100
31) Cyclohexane	3.68	56	117823m	23.528	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	71078	20.626	ug/l	96
36) 1,1-Dichloropropene	4.26	75	96713	21.226	ug/l	90
37) Ethyl Acetate	4.10	43	45510	21.504	ug/l	97
38) Carbon Tetrachloride	3.98	117	70200	22.312	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	116228	21.569	ug/l	98
40) Benzene	4.62	78	274255	23.012	ug/l	99
41) Methacrylonitrile	4.72	41	24887	22.995	ug/l #	89
42) 1,2-Dichloroethane	4.93	62	64744	22.711	ug/l	95
43) Isopropyl Acetate	6.94	43	55534	22.169	ug/l	93
44) Trichloroethene	5.49	130	91038	23.622	ug/l	99
45) 1,2-Dichloropropane	6.22	63	68172	23.664	ug/l	99
46) Dibromomethane	6.08	93	39591	22.321	ug/l	97
47) Bromodichloromethane	6.37	83	90469	23.291	ug/l	92
48) Methyl methacrylate	6.71	41	33387	22.147	ug/l	97
49) 1,4-Dioxane	6.70	88	6506	459.090	ug/l #	76
51) 4-Methyl-2-Pentanone	8.24	43	193370	108.031	ug/l	98
52) Toluene	7.61	92	158857	21.978	ug/l	97
53) t-1,3-Dichloropropene	8.26	75	73876	22.853	ug/l	97
54) cis-1,3-Dichloropropene	7.29	75	100569	23.356	ug/l	96
55) 1,1,2-Trichloroethane	8.48	97	46622	21.953	ug/l	93
56) Ethyl methacrylate	8.61	69	51793	21.905	ug/l	93
57) 1,3-Dichloropropane	8.84	76	80537	22.721	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.28	63	42213	103.477	ug/l	93
59) 2-Hexanone	9.48	43	141498	112.773	ug/l	100
60) Dibromochloromethane	8.70	129	66641	22.545	ug/l	100
61) 1,2-Dibromoethane	8.97	107	49440	21.464	ug/l	99
64) Tetrachloroethene	8.14	164	77400	24.822	ug/l	96
65) Chlorobenzene	9.78	112	180159	23.272	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.92	131	74718	24.631	ug/l	97
67) Ethyl Benzene	9.89	91	303290	23.559	ug/l	98
68) m/p-Xylenes	10.12	106	243690	49.460	ug/l	100
69) o-Xylene	10.70	106	127335	24.220	ug/l	96
70) Styrene	10.78	104	177105	23.813	ug/l	99
71) Bromoform	10.76	173	39274	23.843	ug/l	95
73) Isopropylbenzene	11.11	105	355098	21.344	ug/l	100
74) N-amyl acetate	11.36	43	89923	22.519	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.69	83	59707	20.033	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	41579	20.519	ug/l	98
77) Bromobenzene	11.49	156	85806	20.878	ug/l	97
78) n-propylbenzene	11.59	91	403927	21.158	ug/l	98
79) 2-Chlorotoluene	11.71	91	230106	21.522	ug/l	92
80) 1,3,5-Trimethylbenzene	11.81	105	291347	21.911	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	18759m	19.310	ug/l	
82) 4-Chlorotoluene	11.89	91	231679	20.877	ug/l	99
83) tert-Butylbenzene	12.12	119	325563	22.106	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	288933	21.872	ug/l	99
85) sec-Butylbenzene	12.30	105	415073	21.795	ug/l	99
86) p-Isopropyltoluene	12.46	119	354060	22.152	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	171929	21.458	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	169937	22.053	ug/l	97
89) n-Butylbenzene	12.83	91	333583	22.102	ug/l	99
90) Hexachloroethane	12.91	117	84276	22.671	ug/l	96
91) 1,2-Dichlorobenzene	12.93	146	168713	22.138	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	9102	19.261	ug/l	85

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	115203	21.089	ug/l	98
94) Hexachlorobutadiene	14.18	225	74584	22.108	ug/l	99
95) Naphthalene	14.45	128	199938	20.919	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	108793	21.699	ug/l	94

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

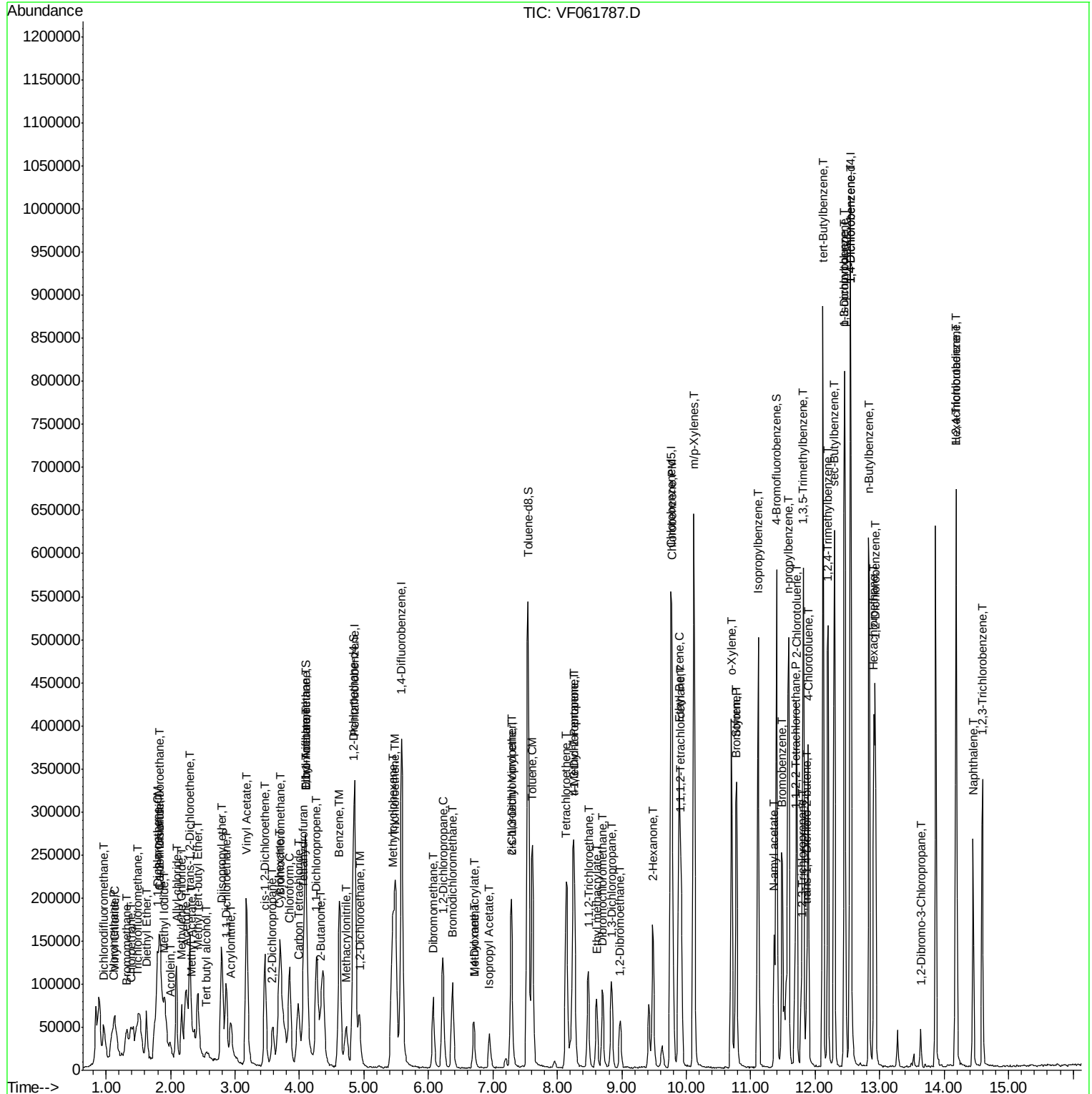
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022819\
Data File : VF061787.D
Acq On : 28 Feb 2019 15:01
Operator : VA/AP
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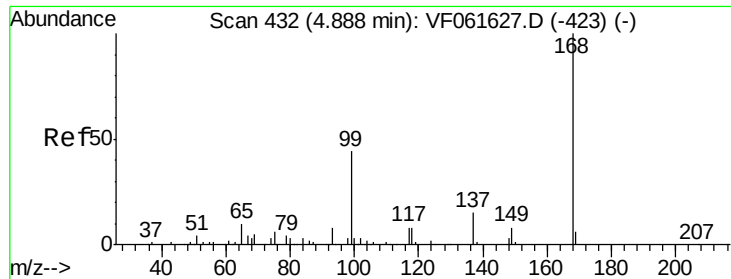
Instrument :
MSVOA_F
ClientSampleId :
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion:168 Resp: 302846

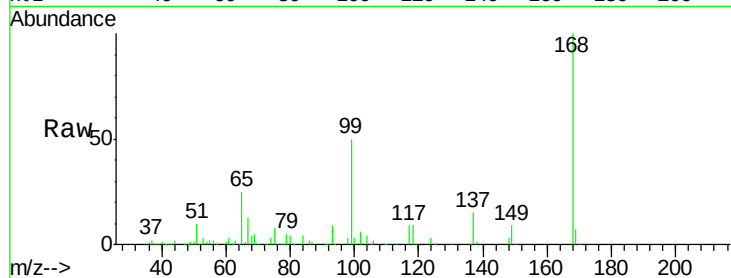
Ion Ratio Lower Upper

168 100

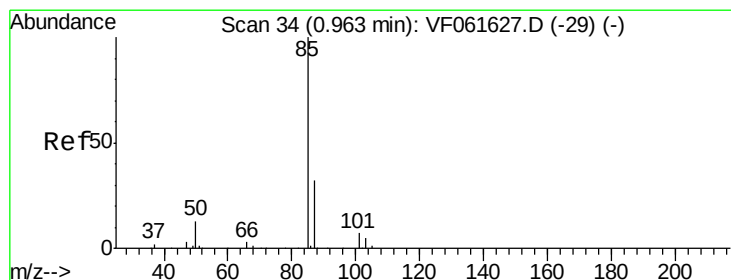
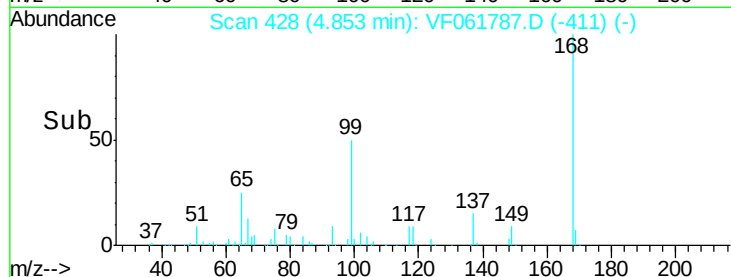
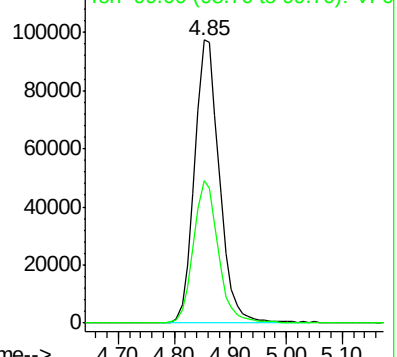
99 50.4 34.9 52.3

Manual Integrations
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Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 27.306 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061787.D

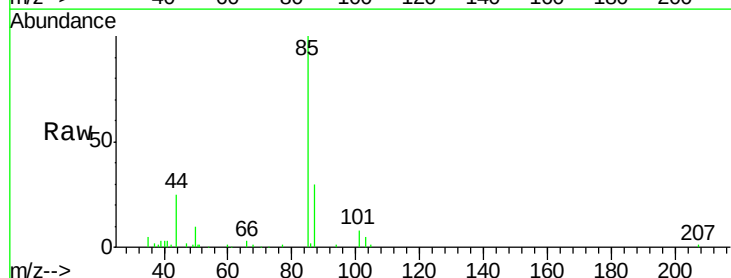
Acq: 28 Feb 2019 15:01

Tgt Ion: 85 Resp: 94967

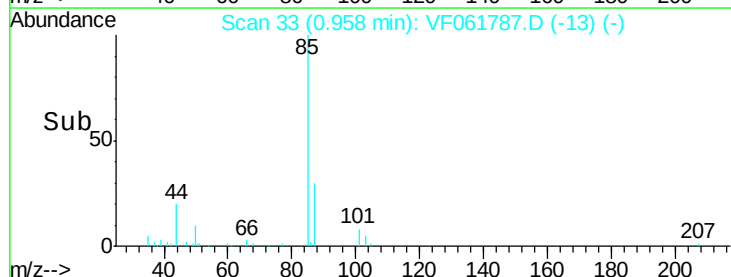
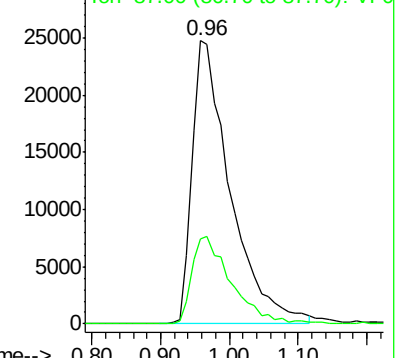
Ion Ratio Lower Upper

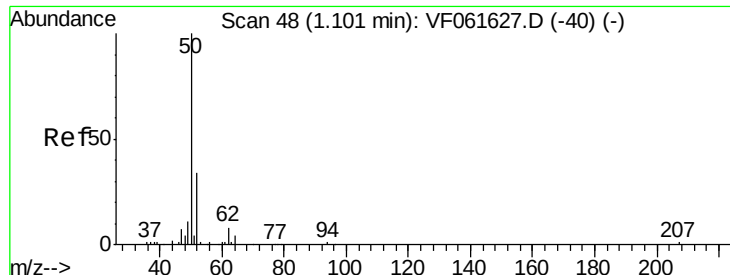
85 100

87 30.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 24.882 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 50 Resp: 90795

Ion Ratio Lower Upper

50 100

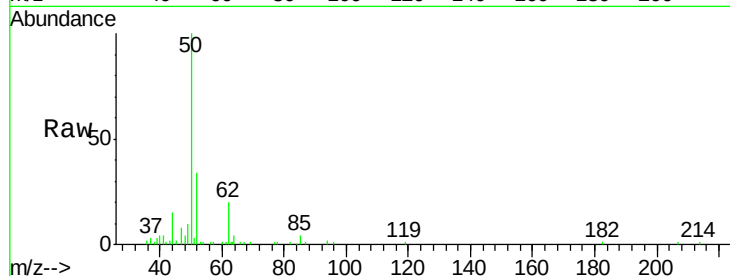
52 34.3 26.2 39.4

Manual Integrations

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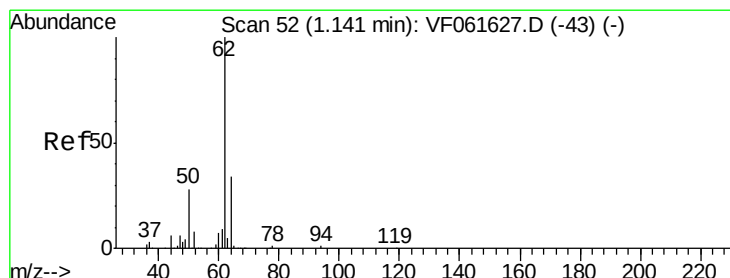
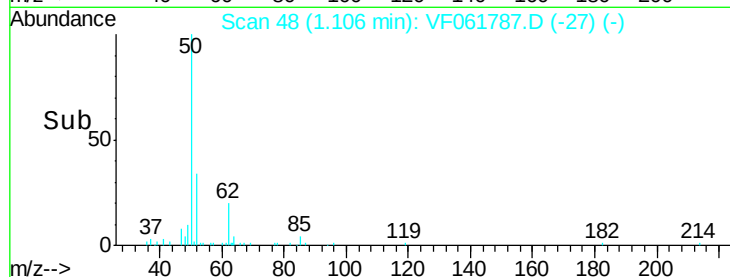
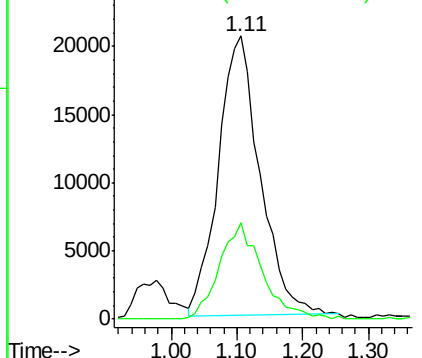
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 26.330 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061787.D

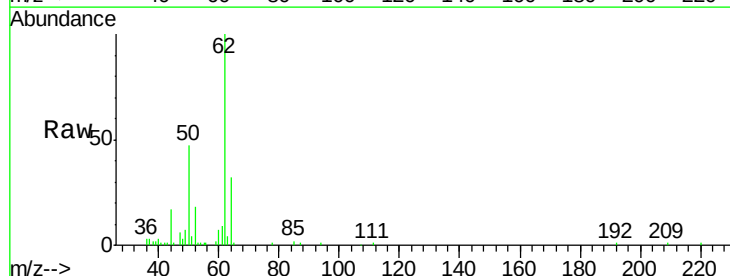
Acq: 28 Feb 2019 15:01

Tgt Ion: 62 Resp: 89317

Ion Ratio Lower Upper

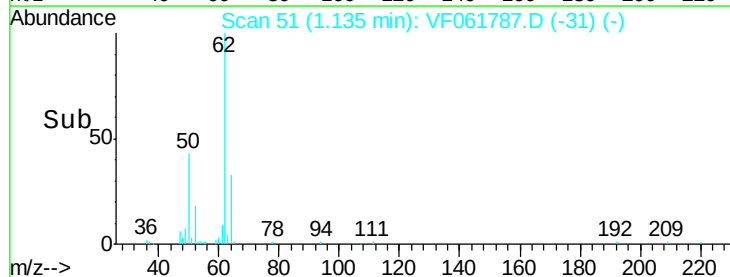
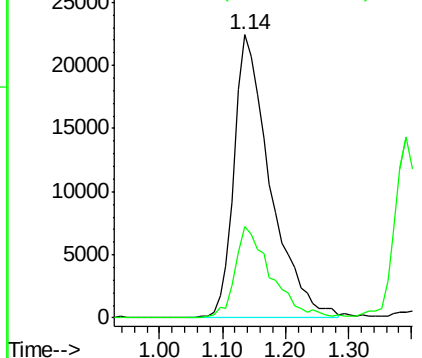
62 100

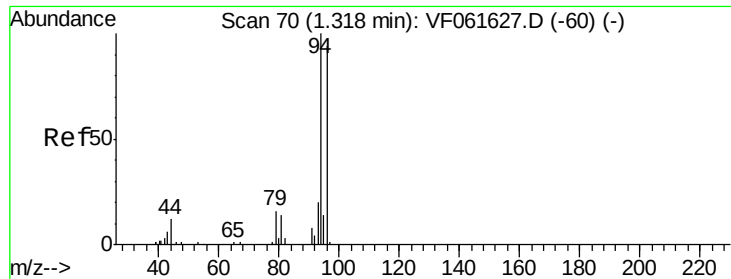
64 32.4 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 24.834 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 94 Resp: 57979

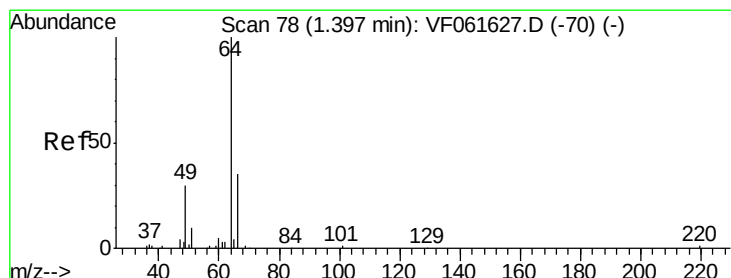
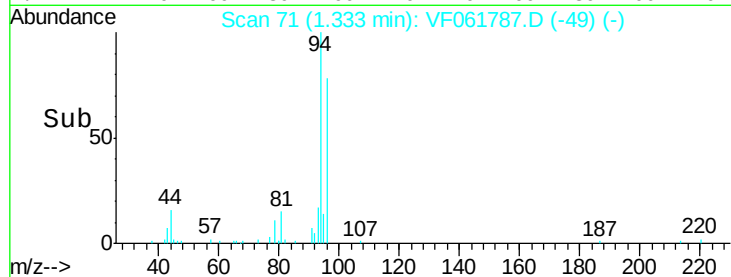
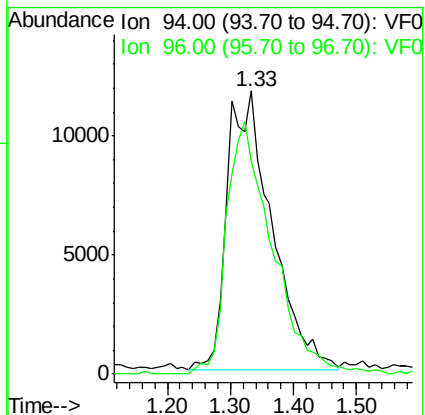
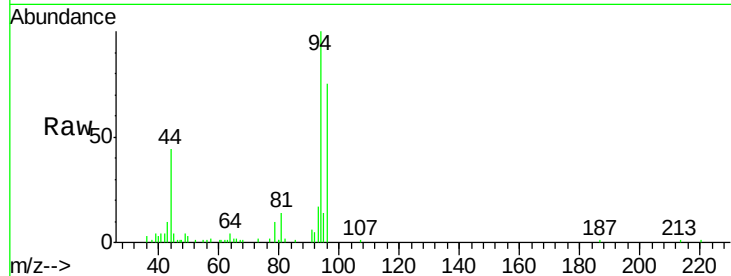
Ion Ratio Lower Upper

94 100

96 75.2 74.6 112.0

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3/2/2019 4:09:38 AM



#6

Chloroethane

Concen: 25.270 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061787.D

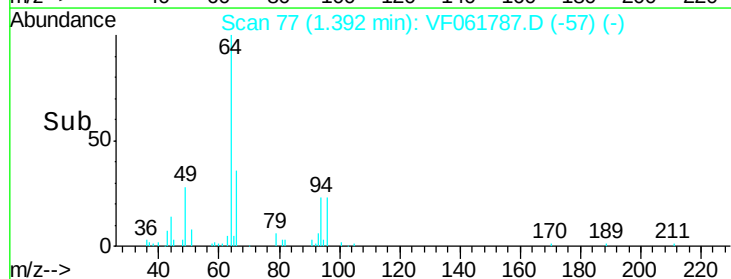
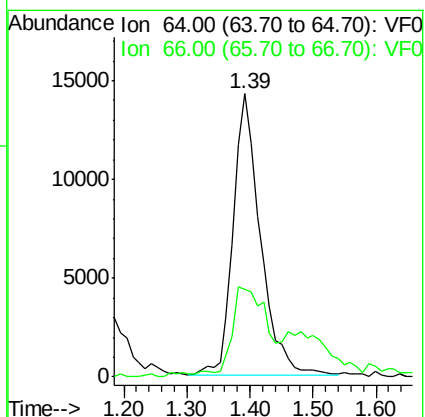
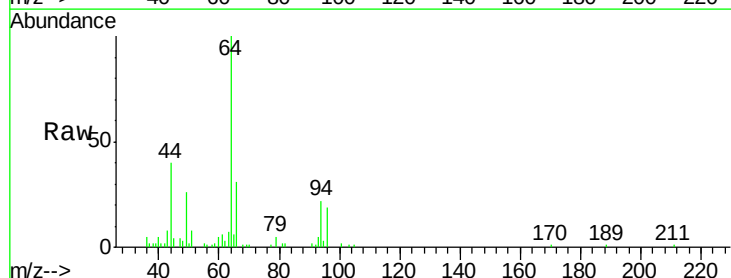
Acq: 28 Feb 2019 15:01

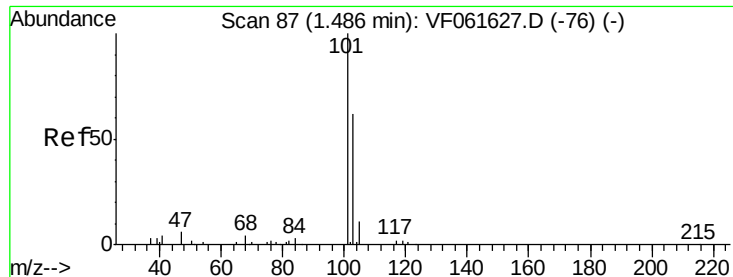
Tgt Ion: 64 Resp: 42244

Ion Ratio Lower Upper

64 100

66 31.0 27.9 41.9





#7

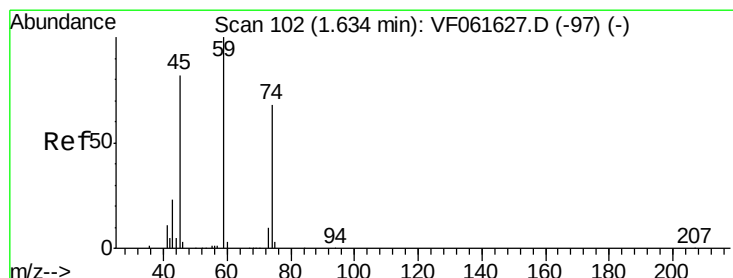
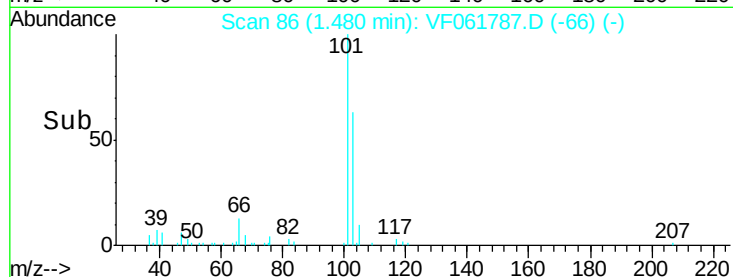
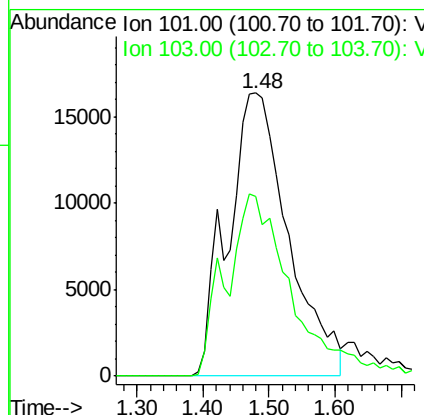
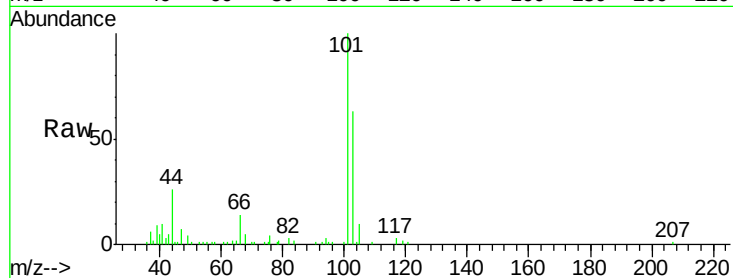
Trichlorofluoromethane
Concen: 25.537 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	49.3	73.9

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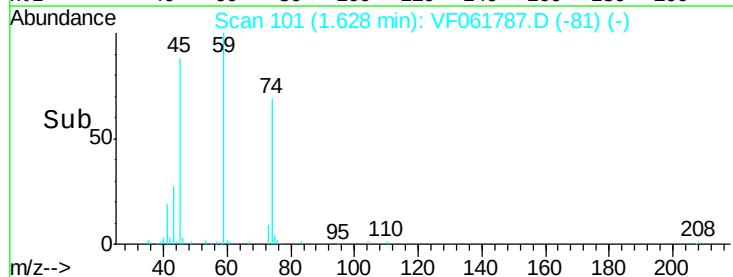
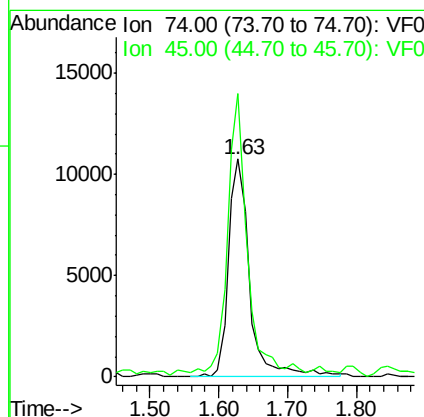
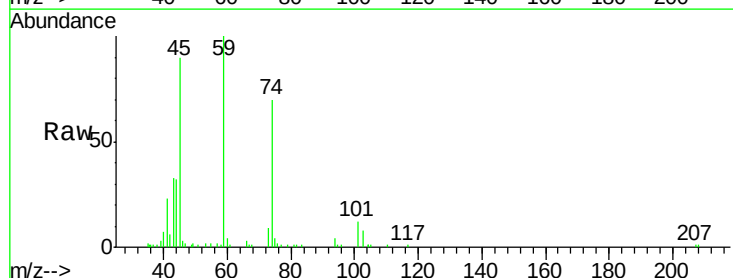
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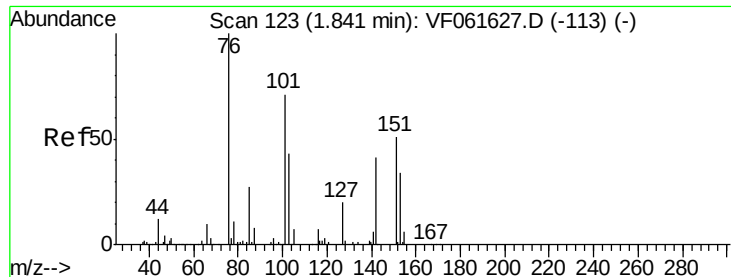


#8

Diethyl Ether
Concen: 22.183 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	129.9	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.578 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

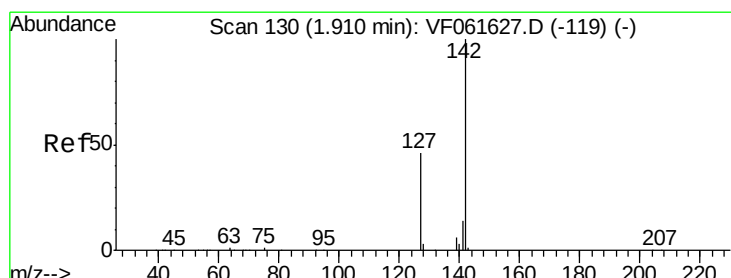
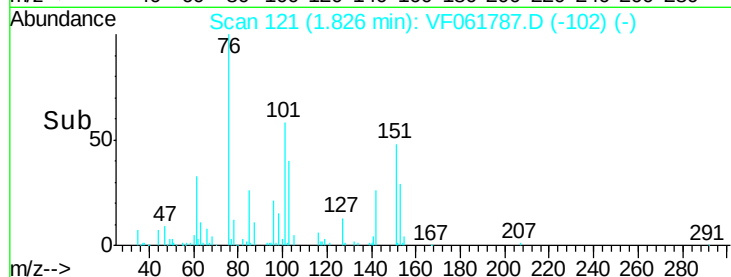
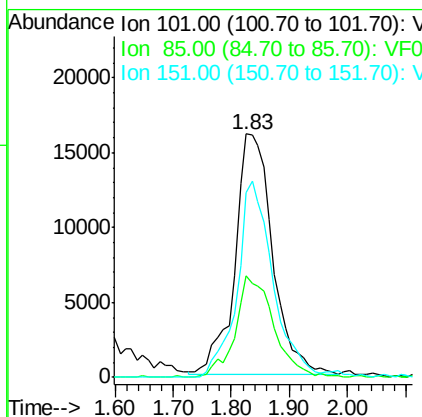
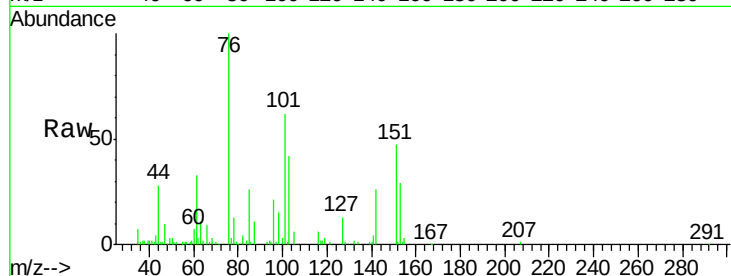
ClientSampleId :

VF0228SBS01

Tot Ion:	101	Resp:	72544
Ion Ratio	Lower	Upper	
101	100		
85	41.5	29.8	44.6
151	76.0	56.3	84.5

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#10

Methyl Iodide

Concen: 24.090 ug/l m

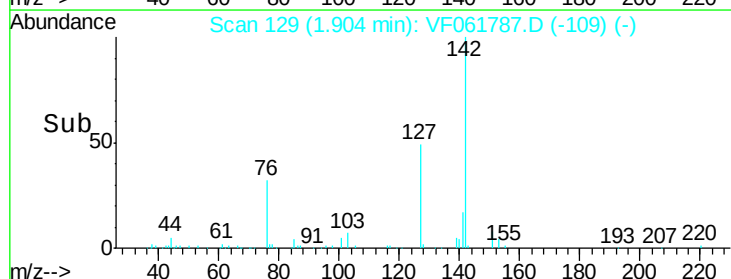
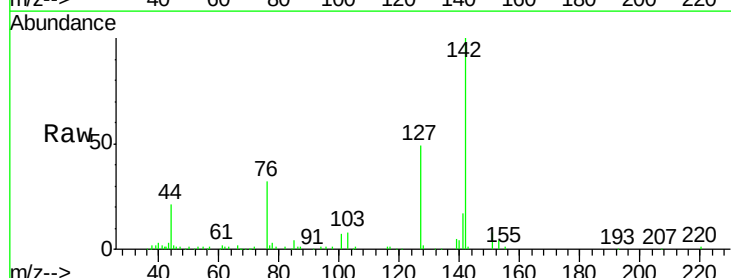
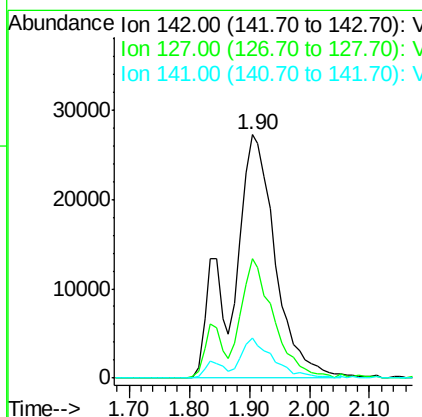
RT: 1.90 min Scan# 129

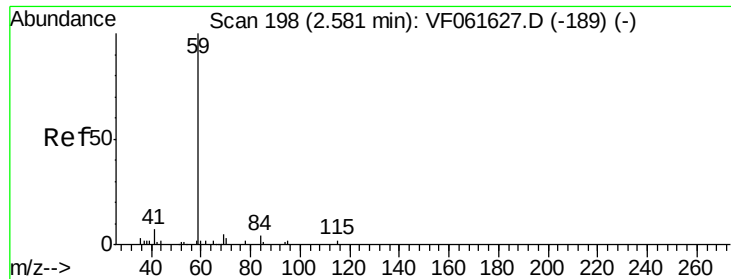
Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	142	Resp:	135825
Ion Ratio	Lower	Upper	
142	100		
127	49.2	36.6	55.0
141	16.7	11.0	16.6#





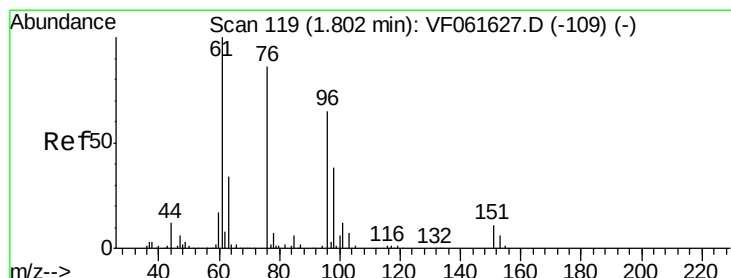
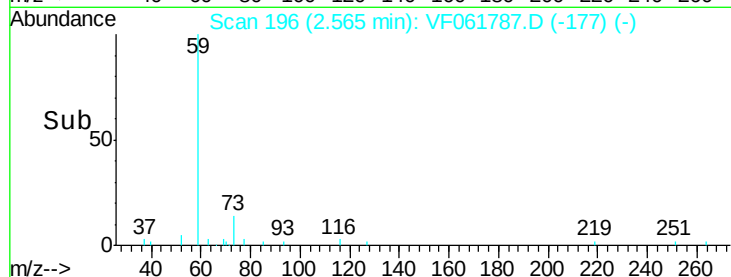
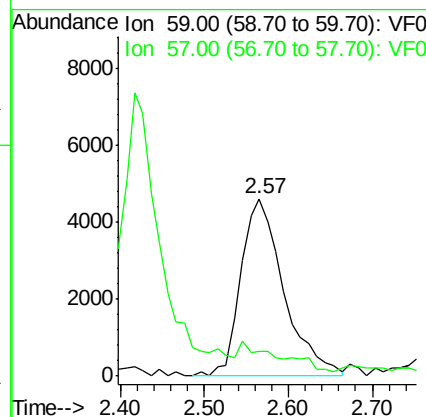
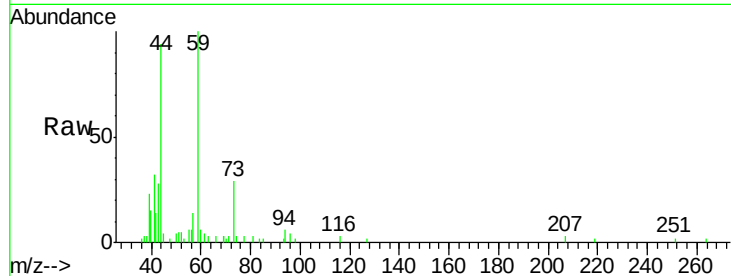
#11
Tert butyl alcohol
Concen: 128.152 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion: 59 Resp: 16471
Ion Ratio Lower Upper
59 100
57 13.9 12.5 18.7

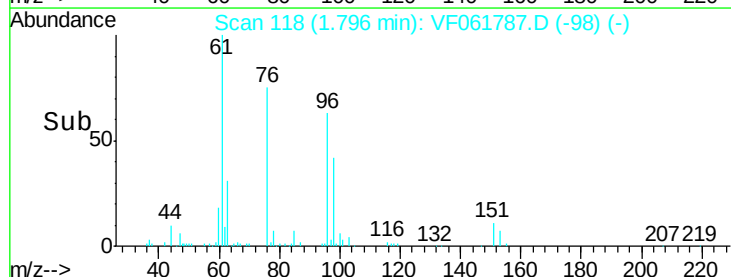
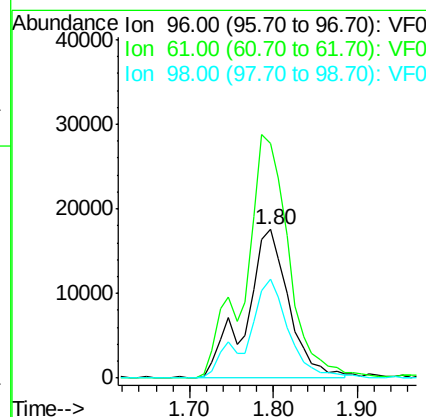
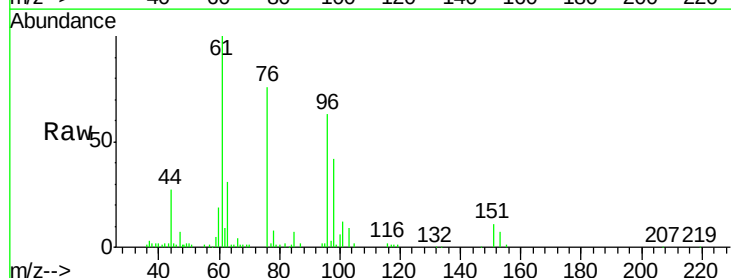
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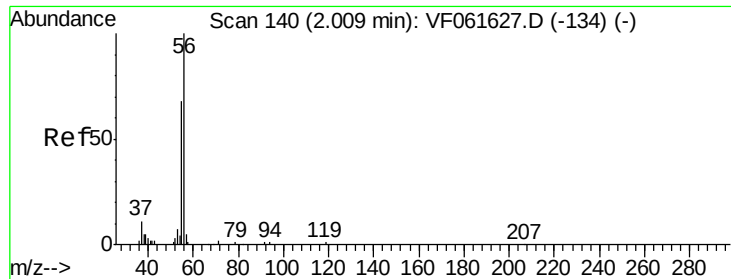
MMDadoda
3/2/2019 4:09:38 AM



#12
1,1-Dichloroethene
Concen: 24.046 ug/l m
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion: 96 Resp: 62401
Ion Ratio Lower Upper
96 100
61 157.6 122.6 184.0
98 66.2 47.2 70.8





#13

Acrolein

Concen: 83.759 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 56 Resp: 13530

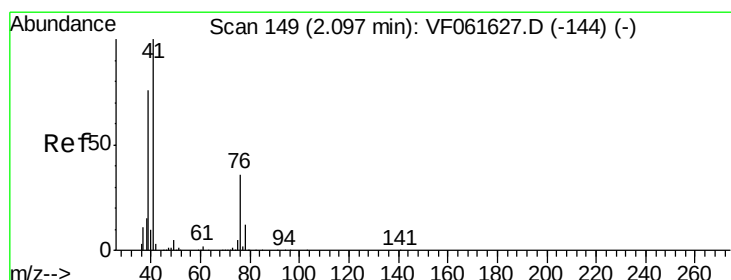
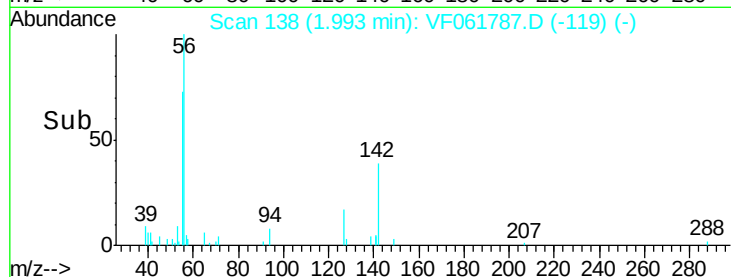
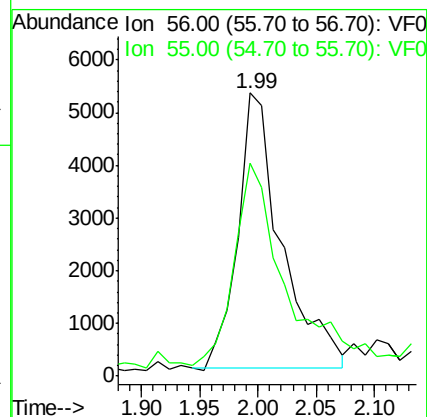
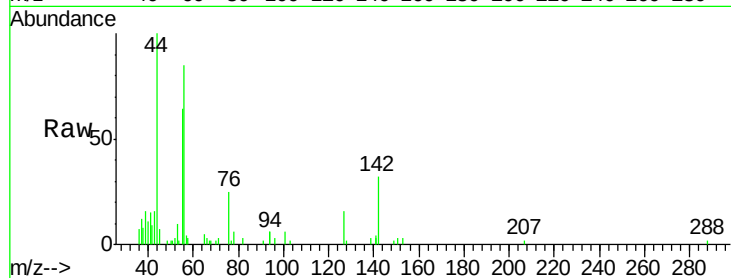
Ion Ratio Lower Upper

56 100

55 75.2 55.0 82.6

Manual Integrations
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#14

Allyl chloride

Concen: 22.849 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

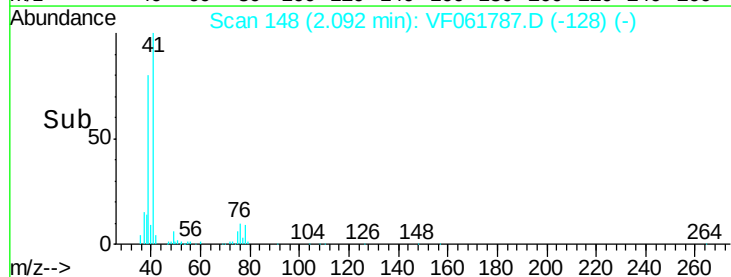
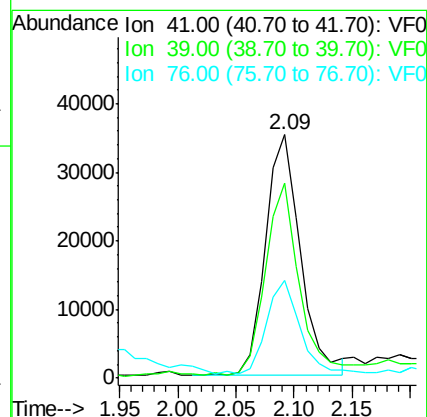
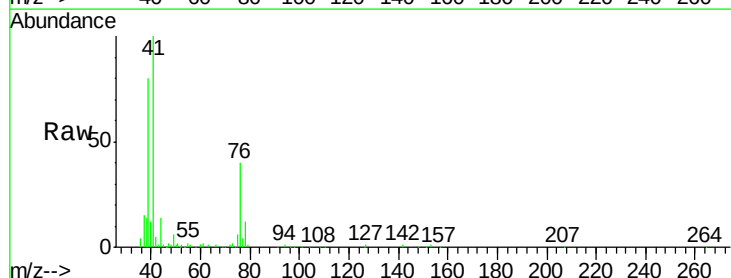
Tgt Ion: 41 Resp: 72761

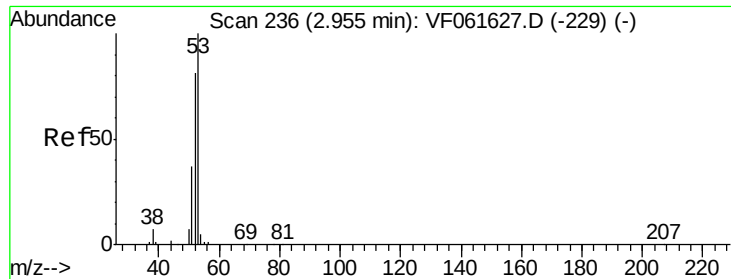
Ion Ratio Lower Upper

41 100

39 80.2 61.6 92.4

76 40.0 30.3 45.5





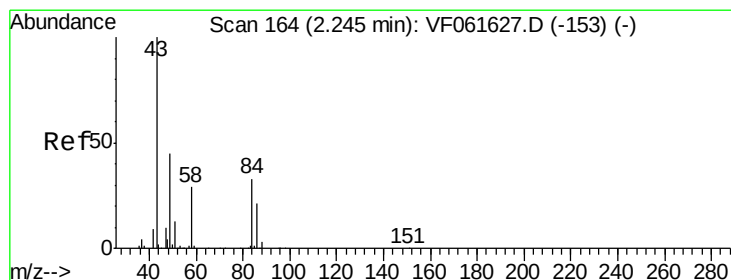
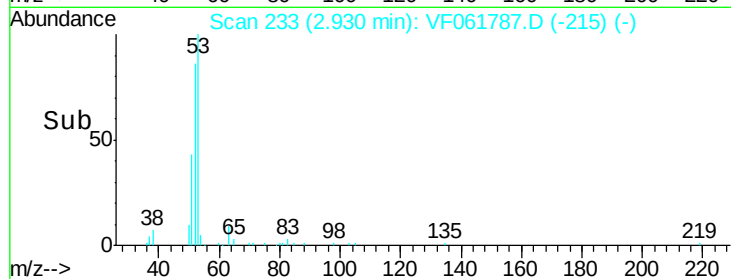
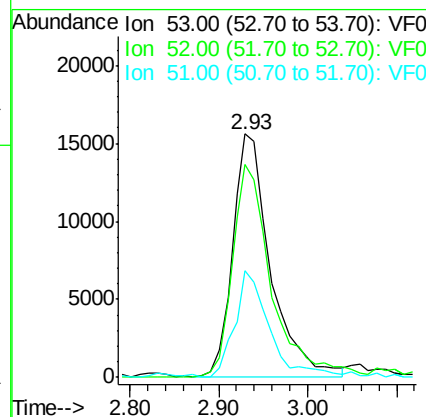
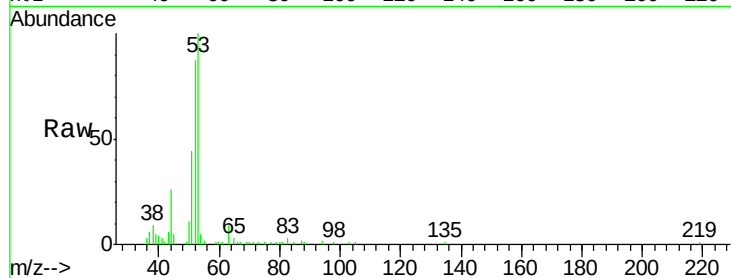
#15
 Acrylonitrile
 Concen: 102.301 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	87.2	64.6	97.0
51	43.7	29.8	44.8

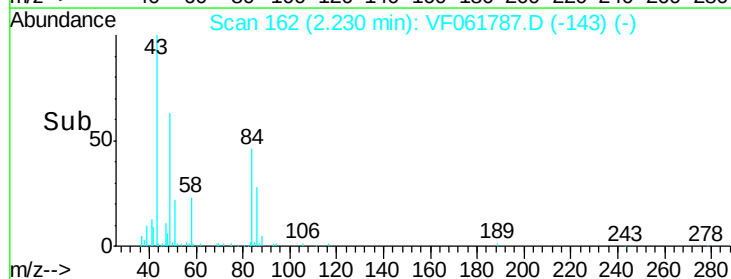
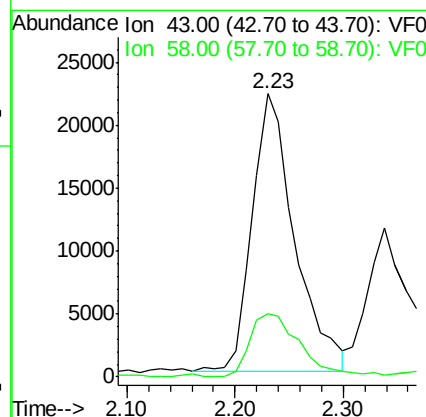
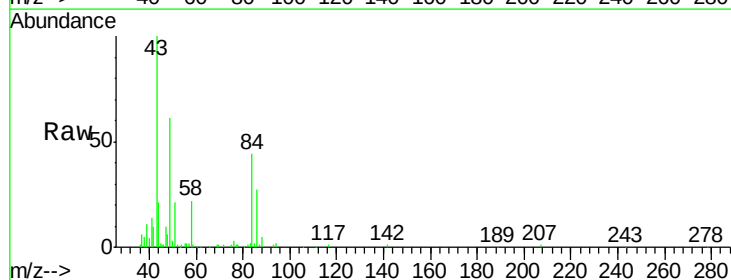
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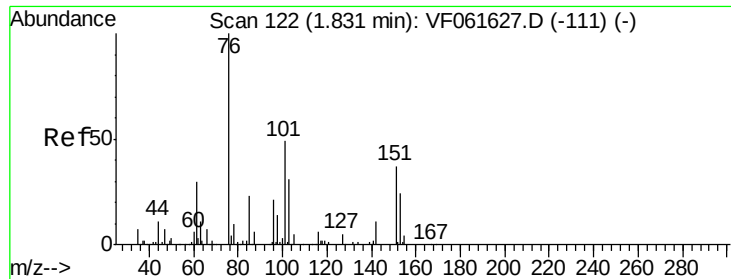
MMDadoda
 3/2/2019 4:09:38 AM



#16
 Acetone
 Concen: 127.065 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.5	22.9	34.3#





#17

Carbon Disulfide

Concen: 23.474 ug/l m

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 76 Resp: 191482

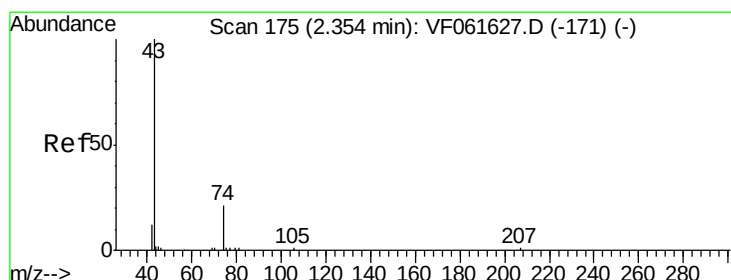
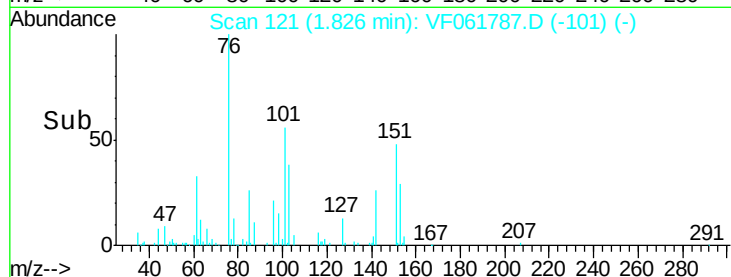
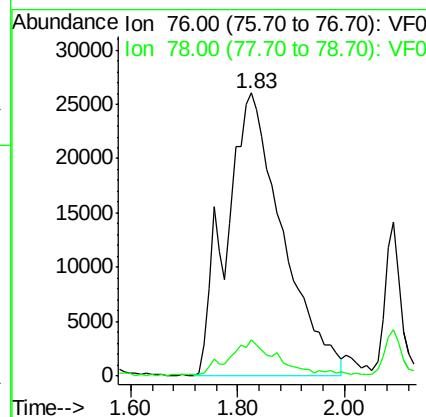
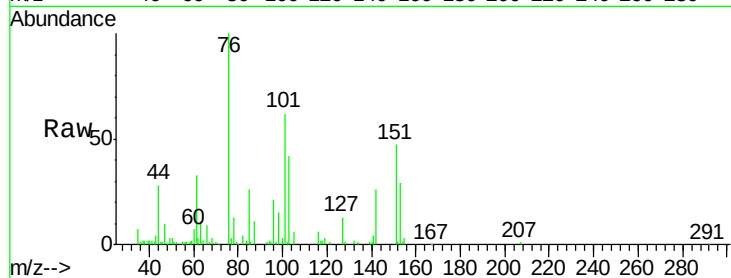
Ion Ratio Lower Upper

76 100

78 12.9 7.9 11.9#

Manual Integrations
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3/2/2019 4:09:38 AM



#18

Methyl Acetate

Concen: 26.621 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061787.D

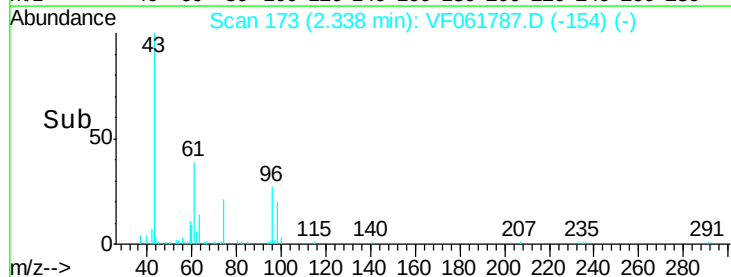
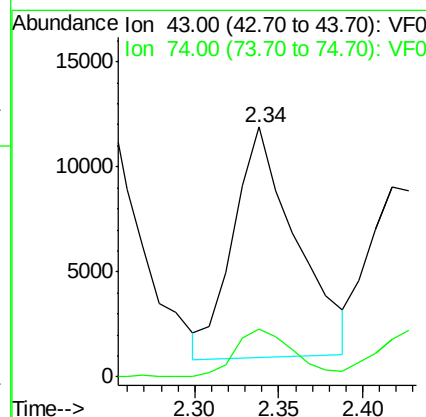
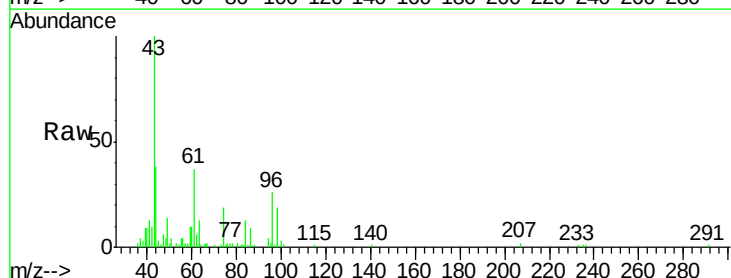
Acq: 28 Feb 2019 15:01

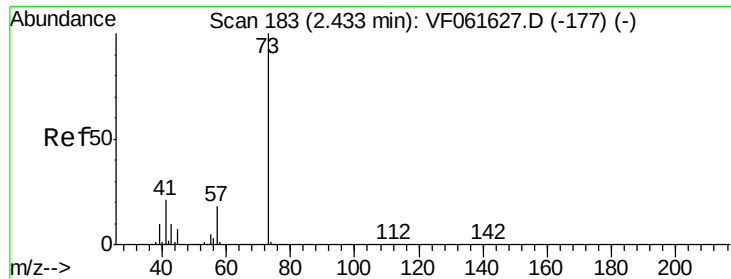
Tgt Ion: 43 Resp: 28575

Ion Ratio Lower Upper

43 100

74 19.4 14.6 21.8





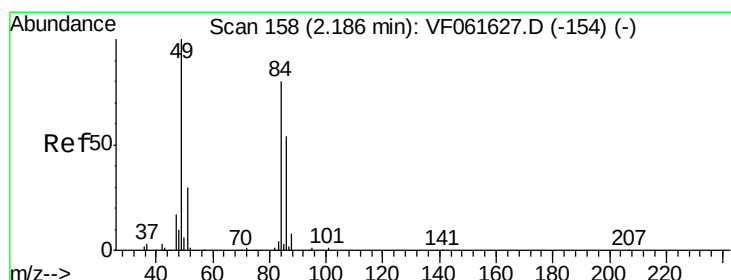
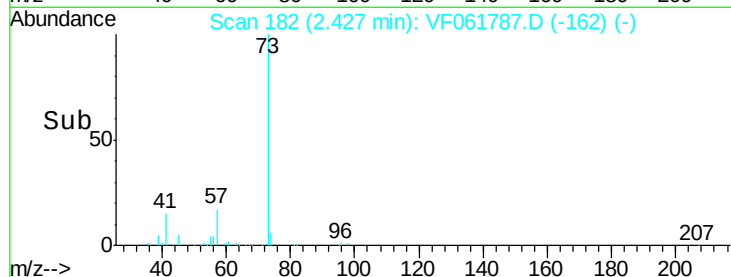
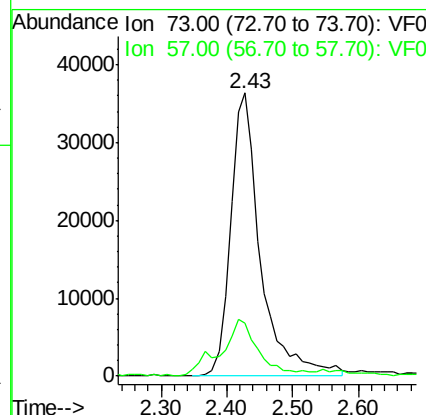
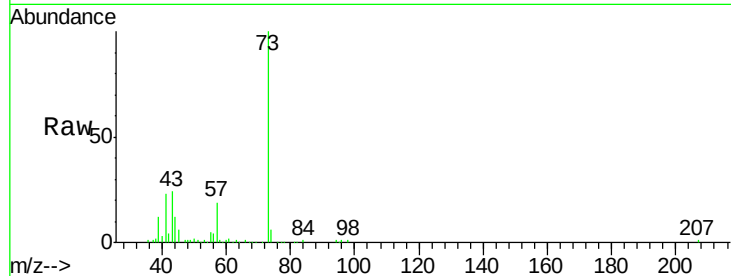
#19
Methyl tert-butyl Ether
Concen: 26.014 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.8	15.8	23.8

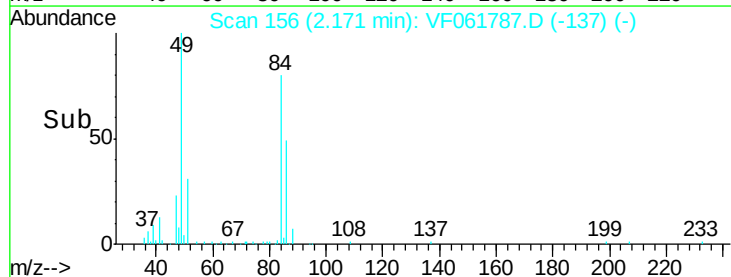
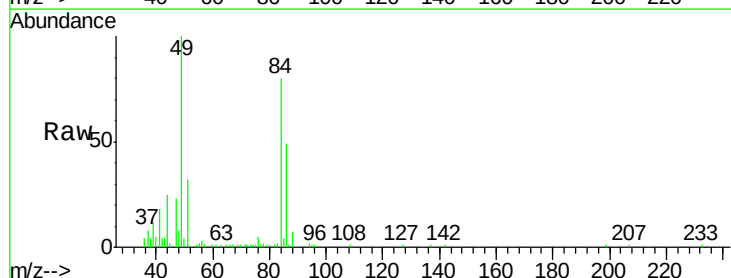
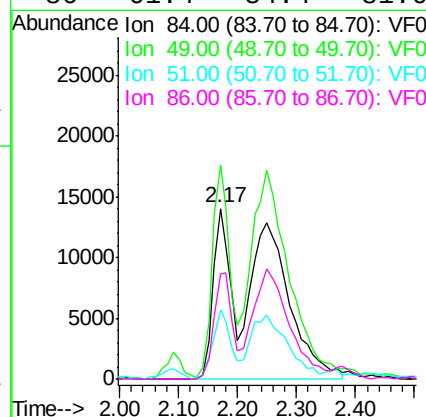
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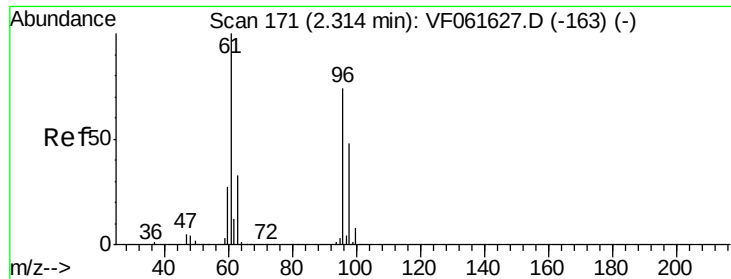
MMDadoda
3/2/2019 4:09:38 AM



#20
Methylene Chloride
Concen: 33.339 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.4	101.8	152.8
51	40.7	31.1	46.7
86	61.4	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 22.958 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

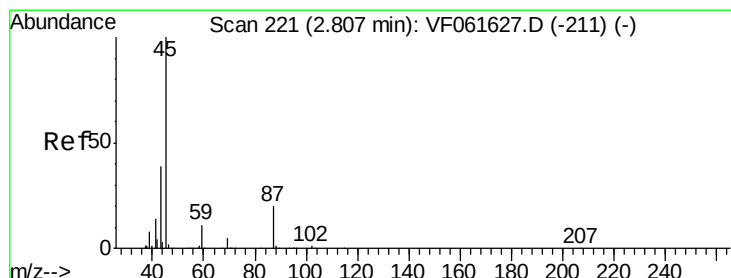
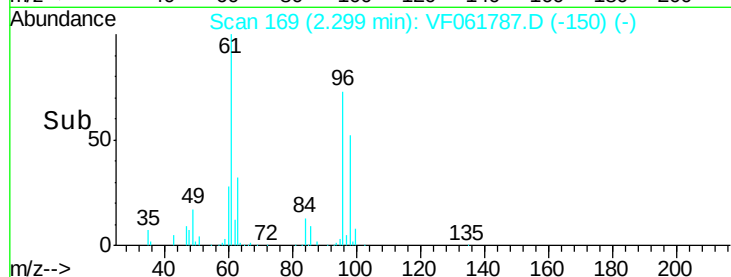
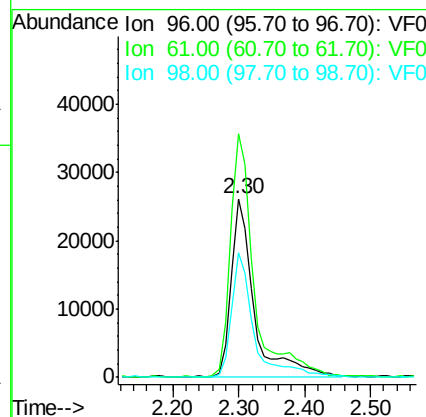
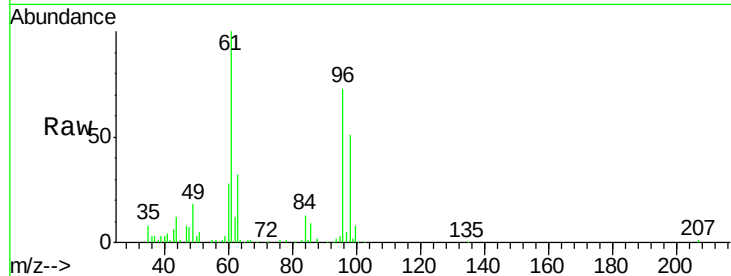
ClientSampleId :

VF0228SBS01

Tot Ion:	96	Resp:	64765
Ion	Ratio	Lower	Upper
96	100		
61	136.5	108.2	162.4
98	70.2	52.2	78.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 24.086 ug/l

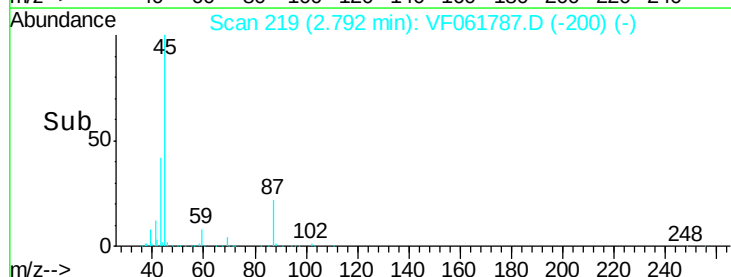
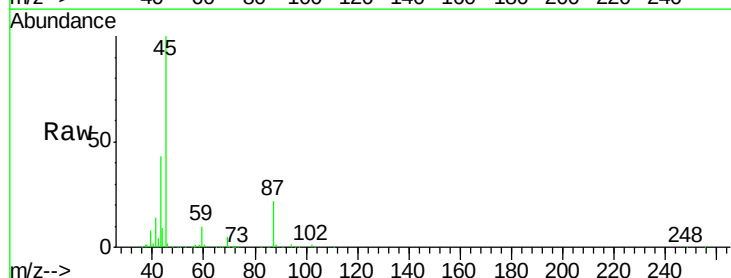
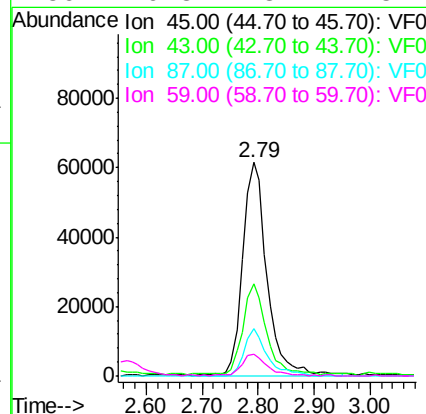
RT: 2.79 min Scan# 219

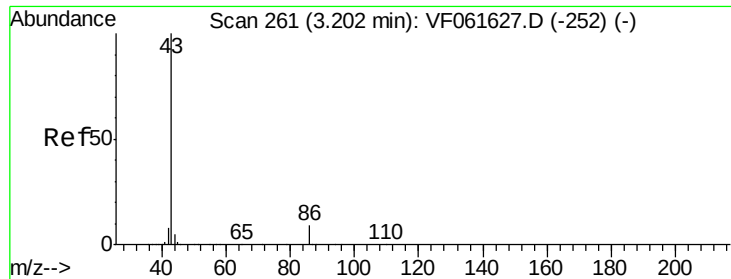
Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	45	Resp:	184116
Ion	Ratio	Lower	Upper
45	100		
43	43.0	31.4	47.2
87	22.1	16.3	24.5
59	10.3	8.7	13.1





#23

Vinyl Acetate

Concen: 111.132 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 43 Resp: 414919

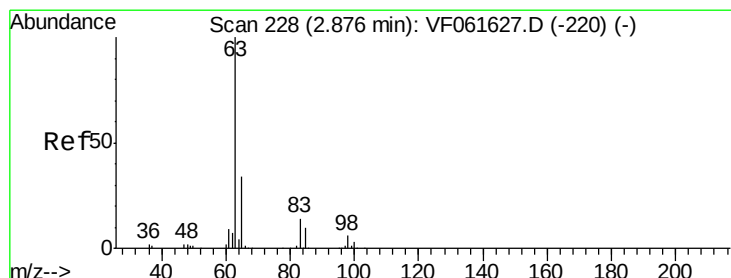
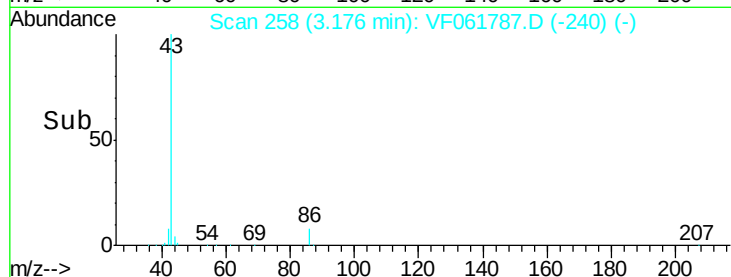
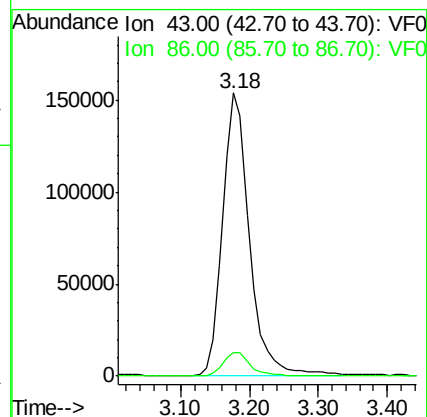
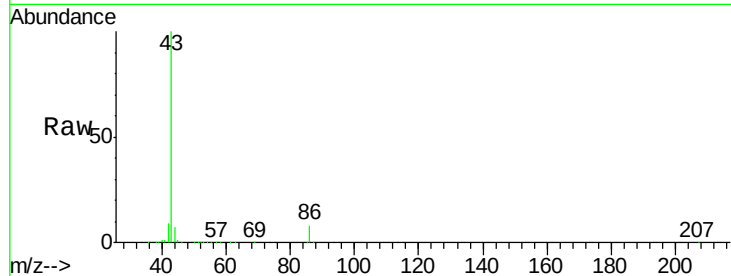
Ion Ratio Lower Upper

43 100

86 8.4 7.5 11.3

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3/2/2019 4:09:38 AM



#24

1,1-Dichloroethane

Concen: 24.350 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

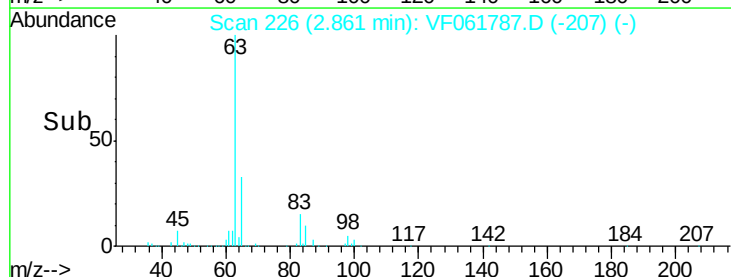
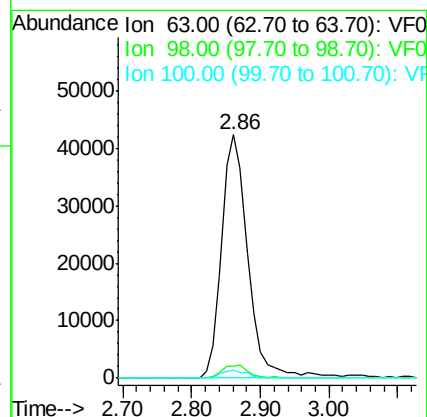
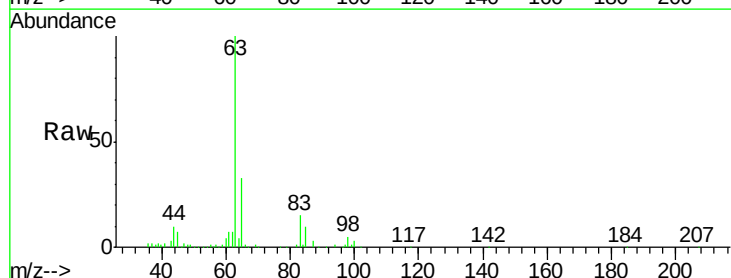
Tgt Ion: 63 Resp: 112640

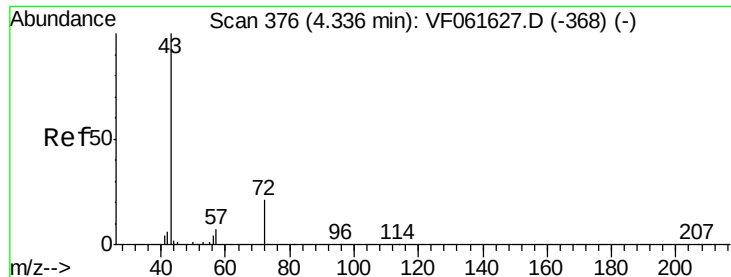
Ion Ratio Lower Upper

63 100

98 5.1 2.8 8.3

100 3.3 1.8 5.4





#25

2-Butanone

Concen: 112.141 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 43 Resp: 116716

Ion Ratio Lower Upper

43 100

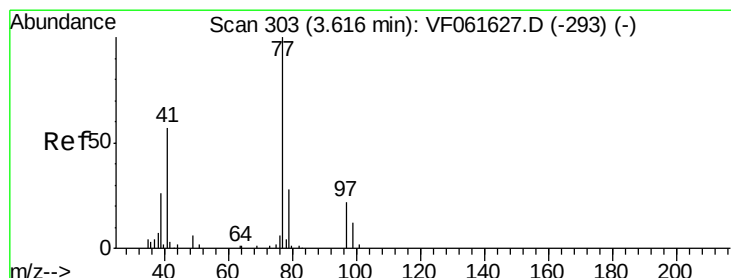
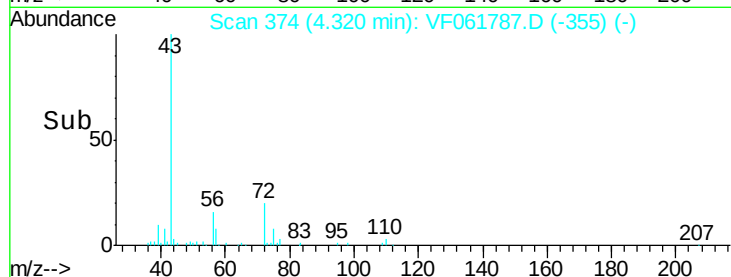
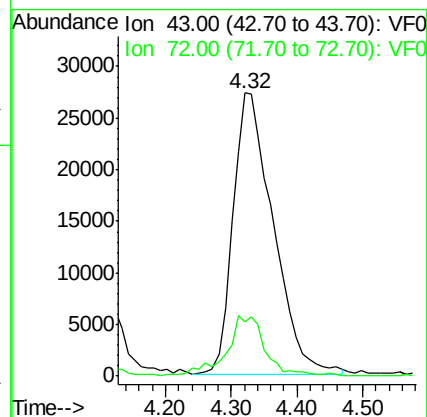
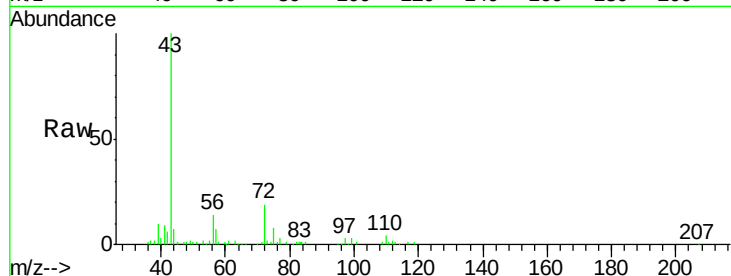
72 19.2 17.1 25.7

Manual Integrations

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MMDadoda

3/2/2019 4:09:38 AM



#26

2,2-Dichloropropane

Concen: 25.072 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061787.D

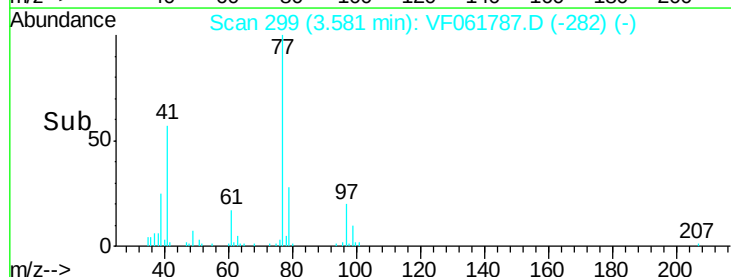
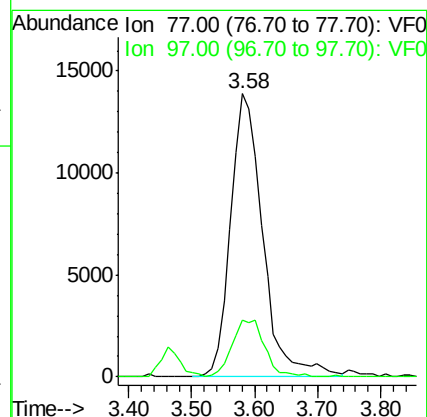
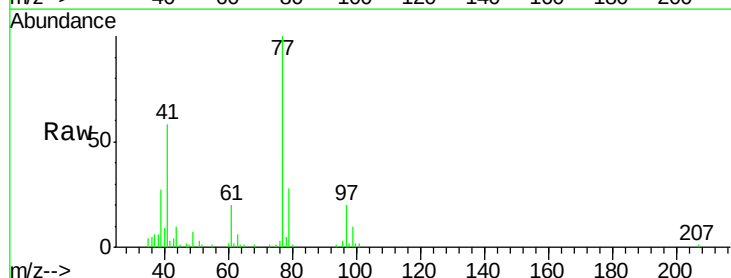
Acq: 28 Feb 2019 15:01

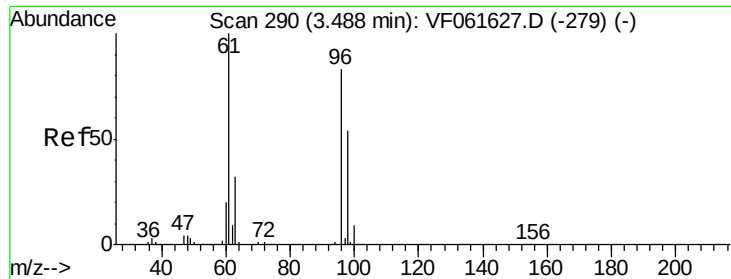
Tgt Ion: 77 Resp: 49127

Ion Ratio Lower Upper

77 100

97 20.0 11.7 35.0





#27

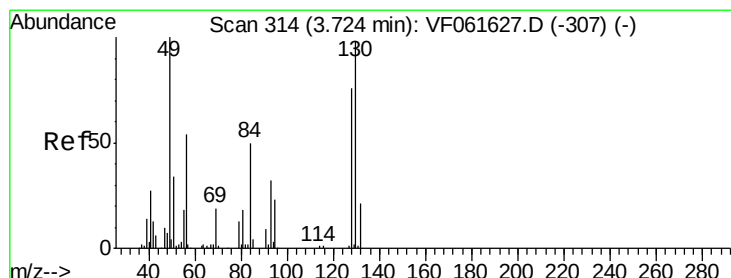
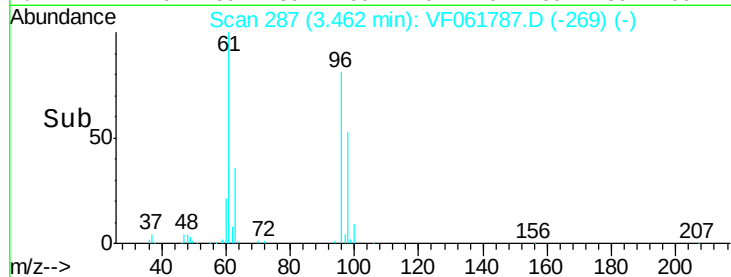
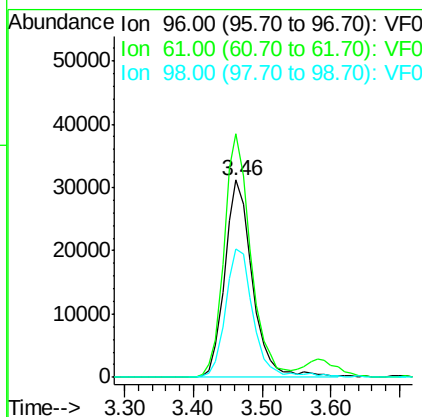
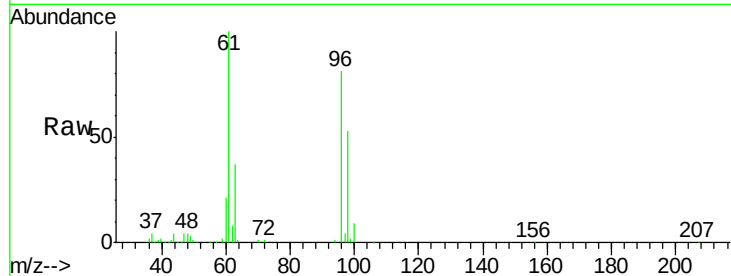
cis-1,2-Dichloroethene
 Concen: 23.367 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	123.5	0.0	241.6	
98	65.5	0.0	130.2	

Manual Integrations
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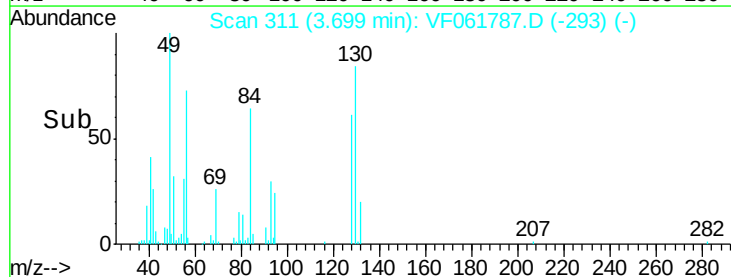
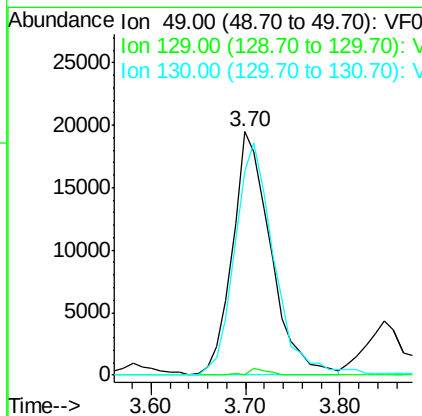
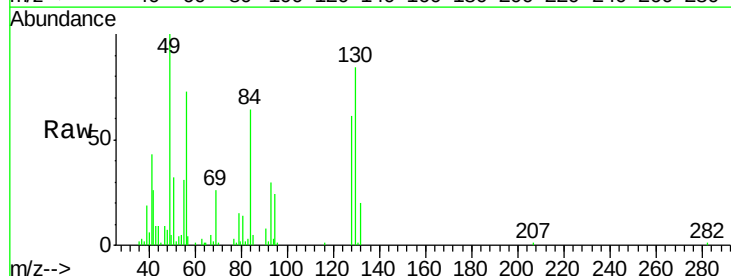
MMDadoda
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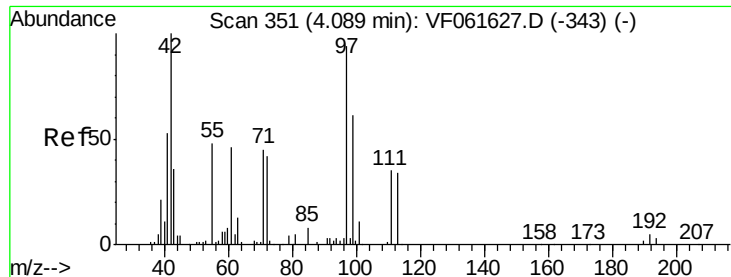


#28

Bromochloromethane
 Concen: 24.689 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.0	0.0	3.4	
130	83.9	77.7	116.5	





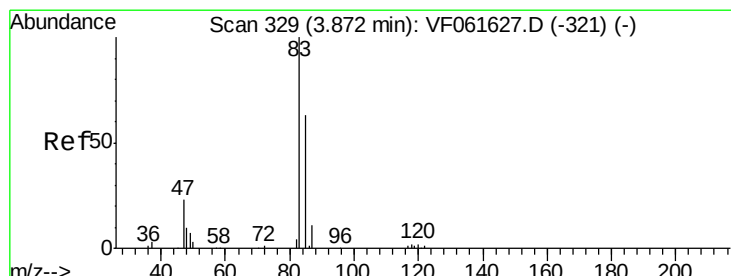
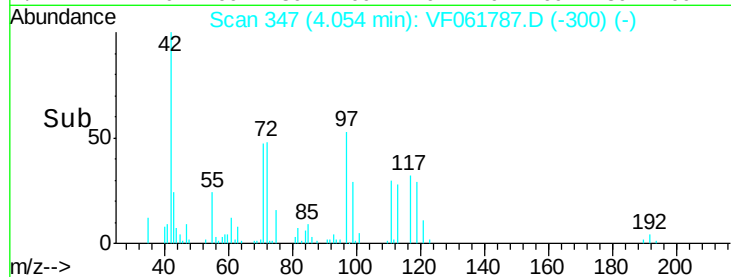
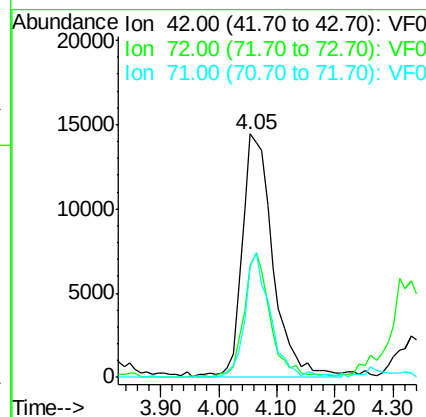
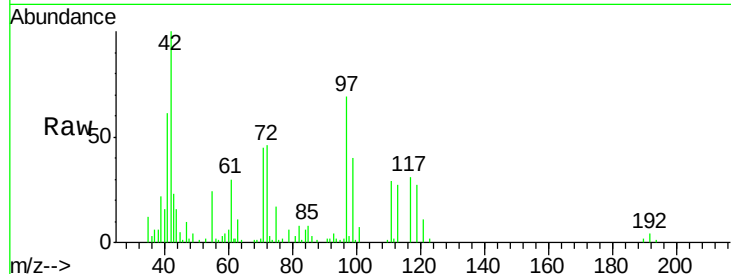
#29
Tetrahydrofuran
Concen: 112.872 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion:	42	Resp:	53394
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.2	52.8
71	40.9	32.9	49.3

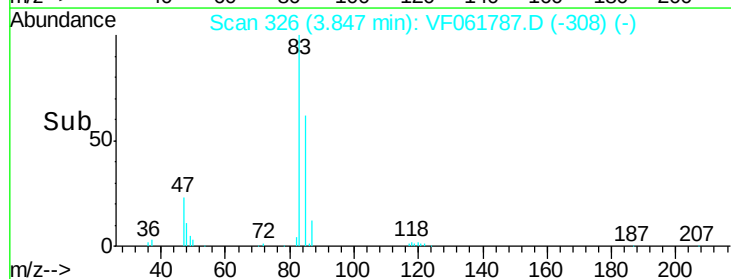
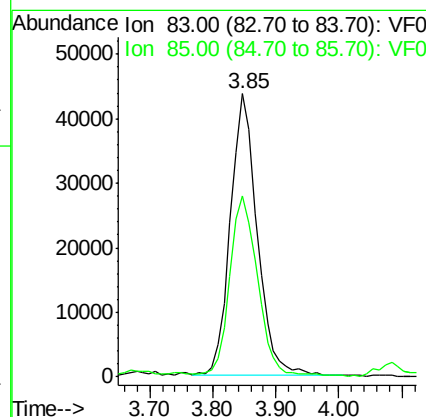
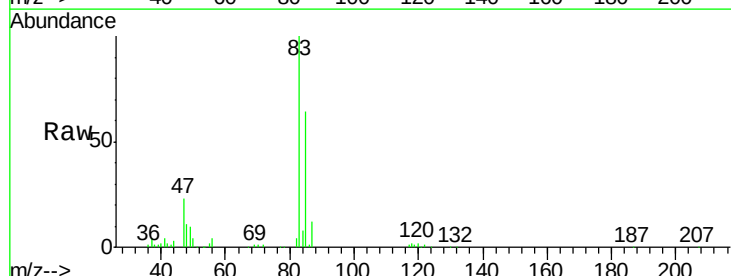
Manual Integrations
APPROVED

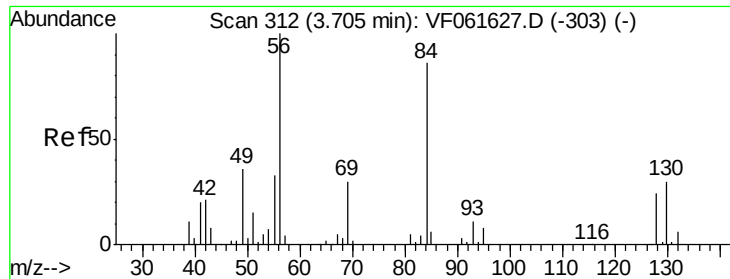
MMDadoda
3/2/2019 4:09:38 AM



#30
Chloroform
Concen: 24.321 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion:	83	Resp:	127944
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7





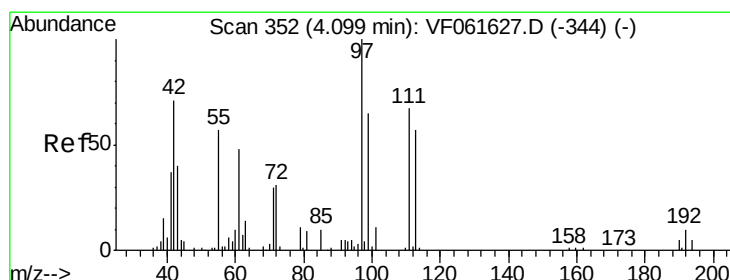
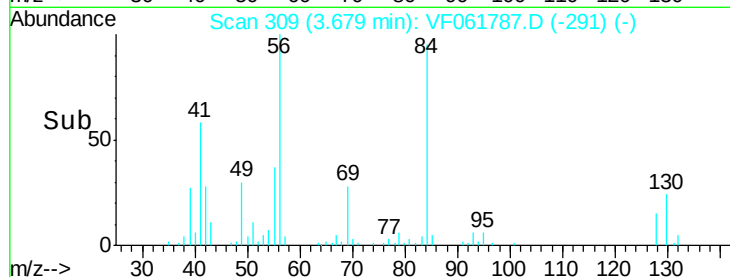
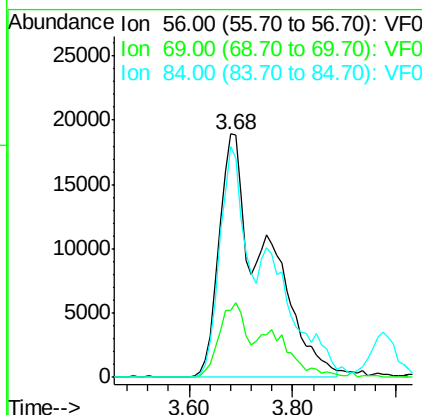
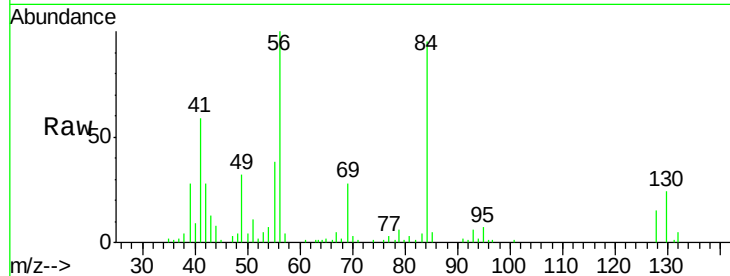
#31
Cyclohexane
Concen: 23.528 ug/l m
RT: 3.68 min Scan# 309
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.6	23.8	35.8
84	94.6	68.6	103.0

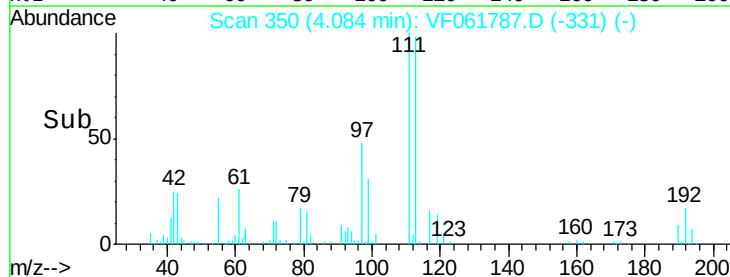
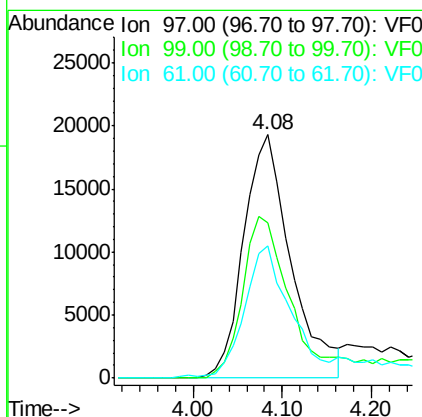
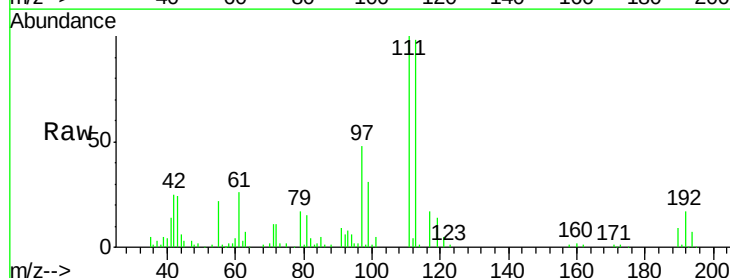
Manual Integrations
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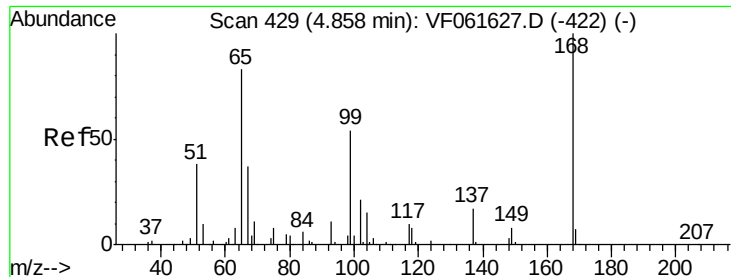
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3/2/2019 4:09:38 AM



#32
1,1,1-Trichloroethane
Concen: 20.626 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.2	78.2
61	54.5	39.2	58.8





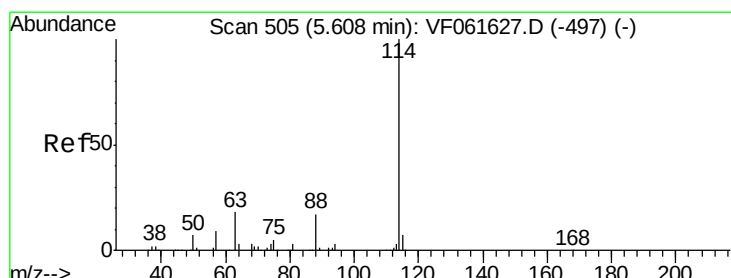
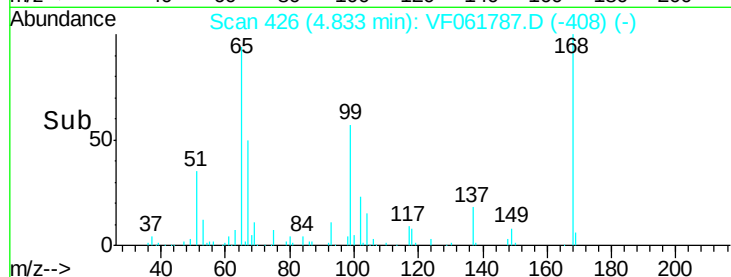
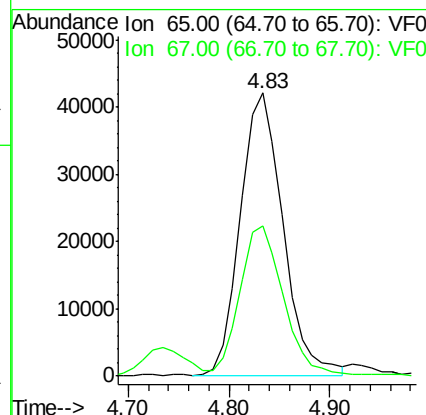
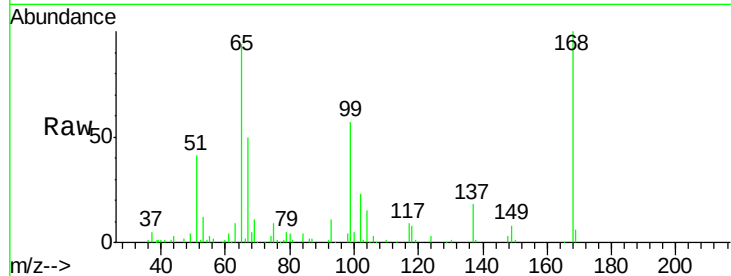
#33
 1,2-Dichloroethane-d4
 Concen: 55.609 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	123498		
67	53.0	0.0	104.0	

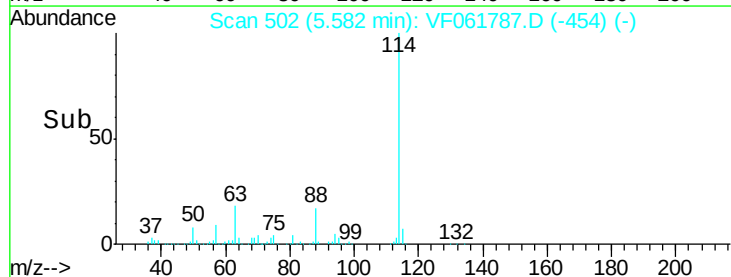
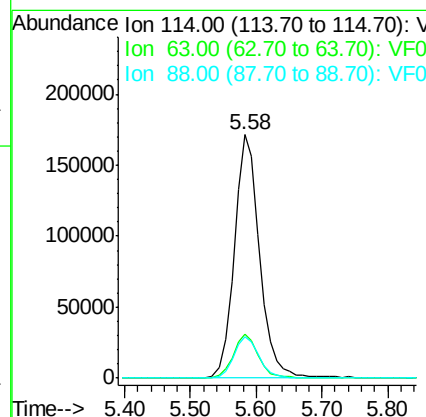
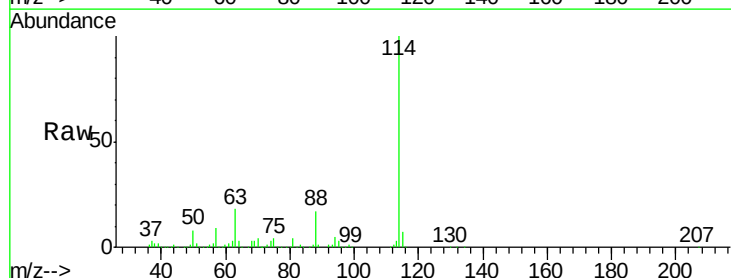
Manual Integrations
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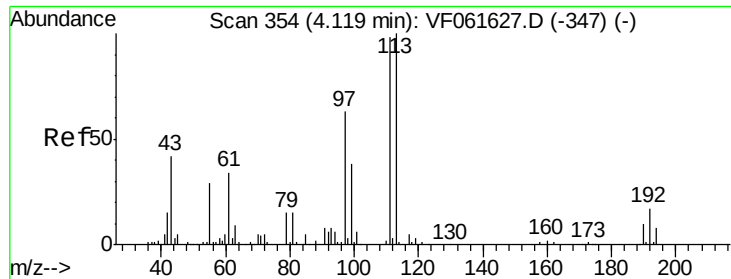
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	459952		
63	17.9	0.0	36.6	
88	17.0	0.0	34.4	





#35

Dibromofluoromethane

Concen: 51.703 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

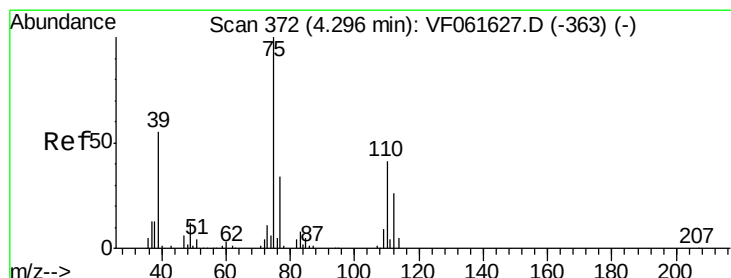
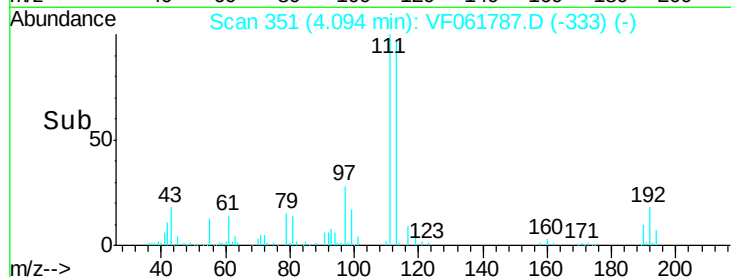
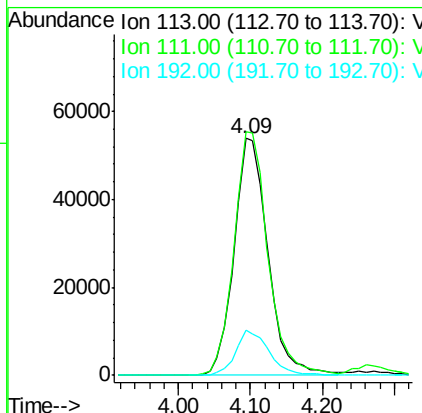
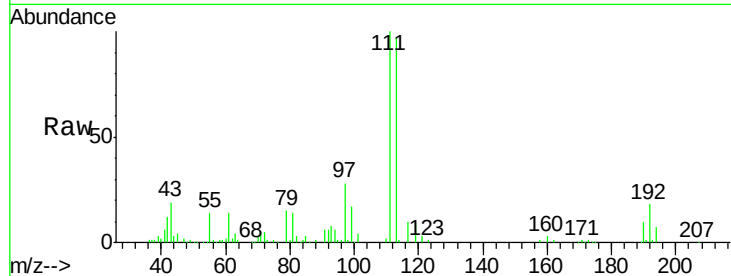
ClientSampleId :

VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	176598		
111	102.7		78.8	118.2
192	18.9		13.4	20.0

Manual Integrations
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MMDadoda
3/2/2019 4:09:38 AM



#36

1,1-Dichloropropene

Concen: 21.226 ug/l

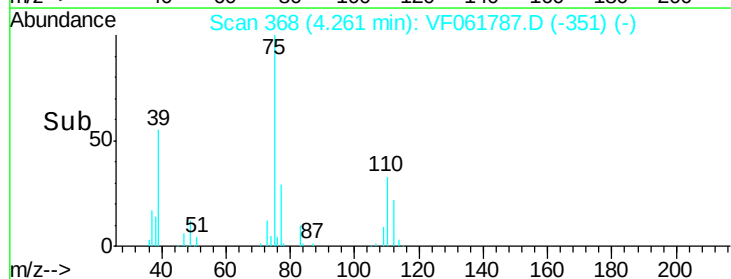
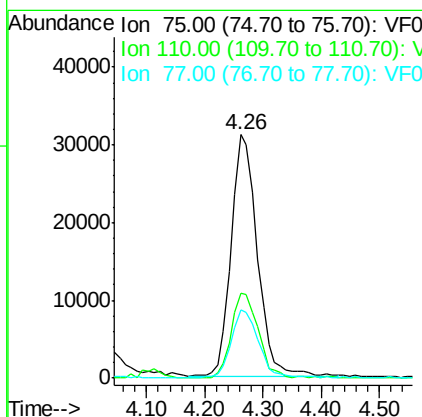
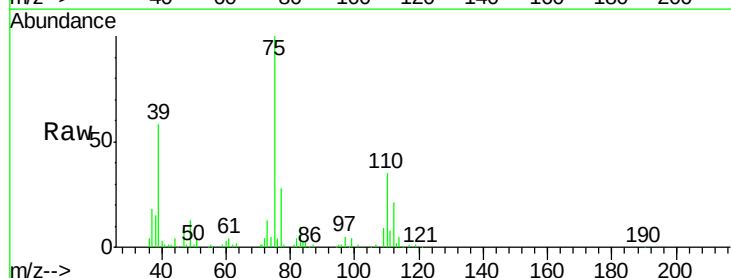
RT: 4.26 min Scan# 368

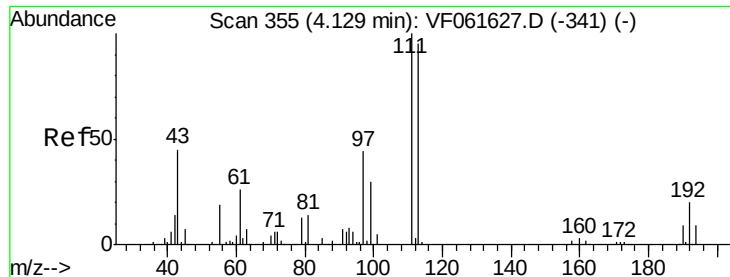
Delta R.T. -0.04 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	96713		
110	35.1		20.5	61.6
77	28.1		27.0	40.4





#37

Ethyl Acetate

Concen: 21.504 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

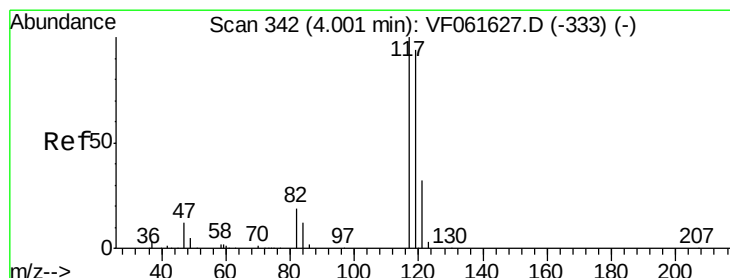
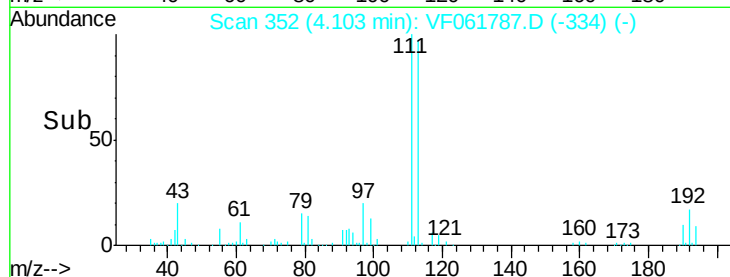
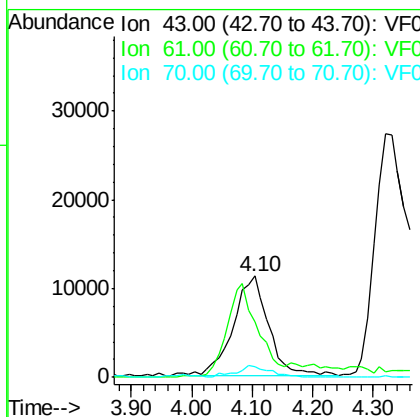
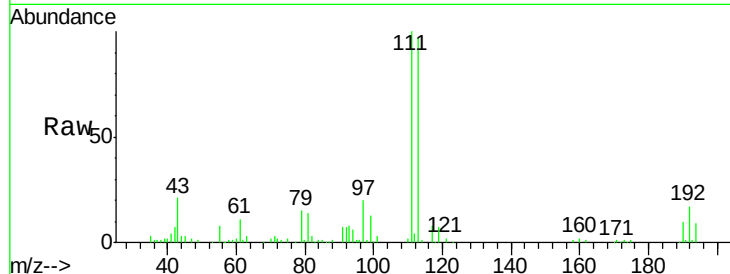
ClientSampleId :

VF0228SBS01

Tot Ion:	43	Resp:	45510
Ion	Ratio	Lower	Upper
43	100		
61	54.4	45.7	68.5
70	10.2	8.5	12.7

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 22.312 ug/l

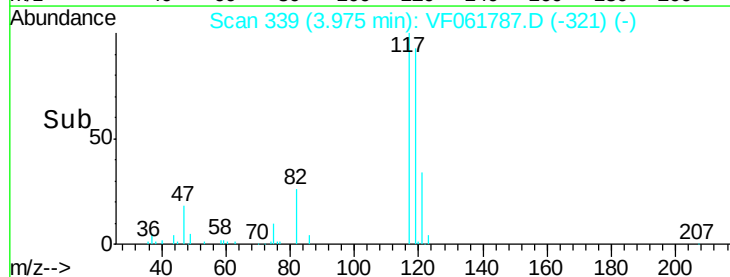
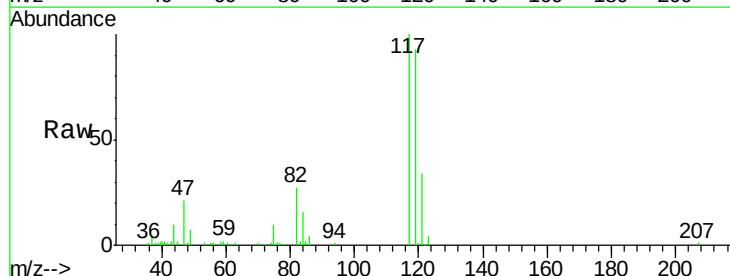
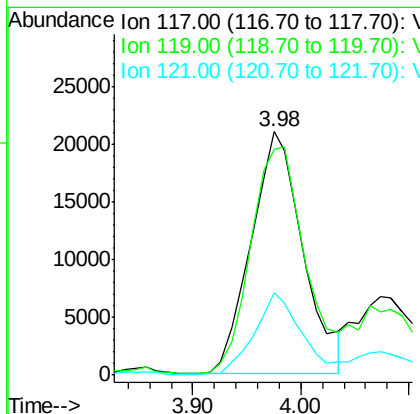
RT: 3.98 min Scan# 339

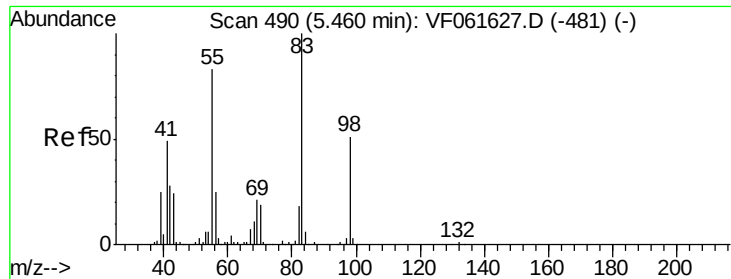
Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	117	Resp:	70200
Ion	Ratio	Lower	Upper
117	100		
119	92.6	75.6	113.4
121	34.0	25.2	37.8





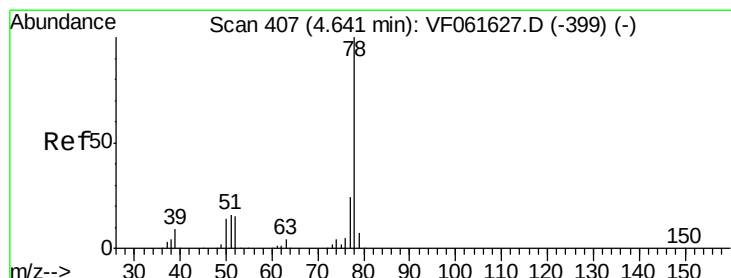
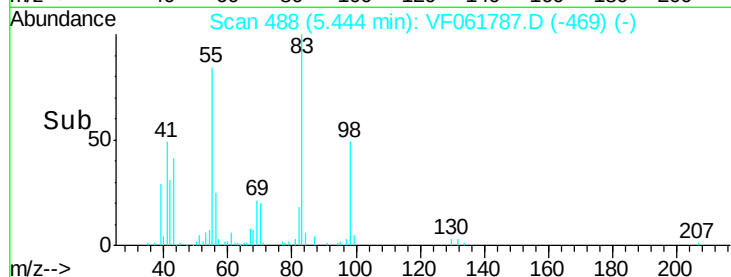
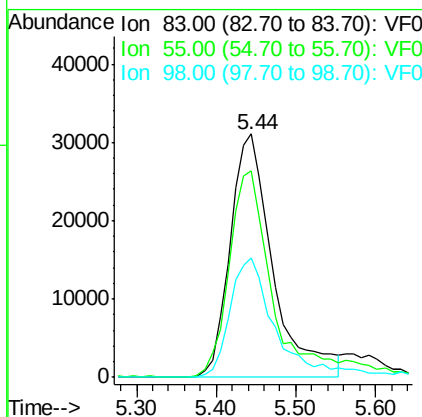
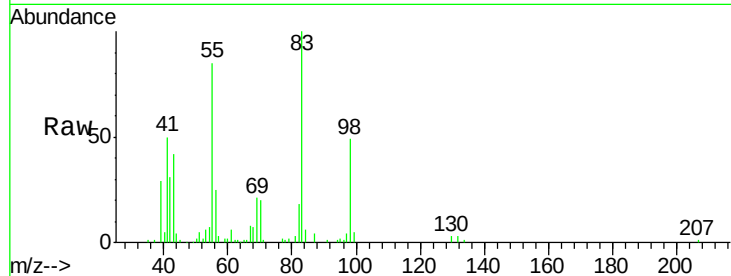
#39
Methylvlcyclohexane
Concen: 21.569 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.7	66.6	99.8
98	49.0	40.4	60.6

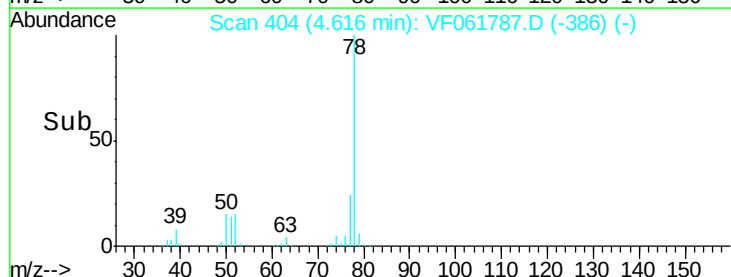
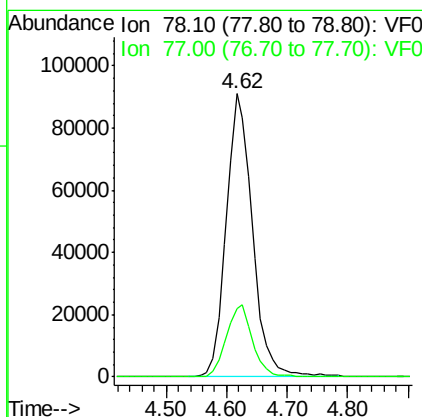
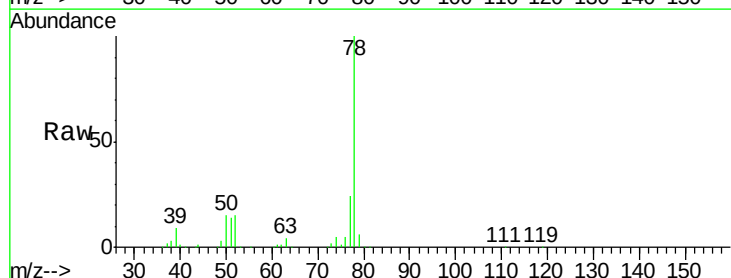
Manual Integrations
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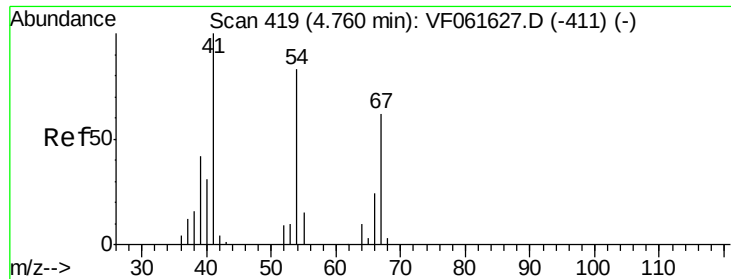
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#40
Benzene
Concen: 23.012 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6





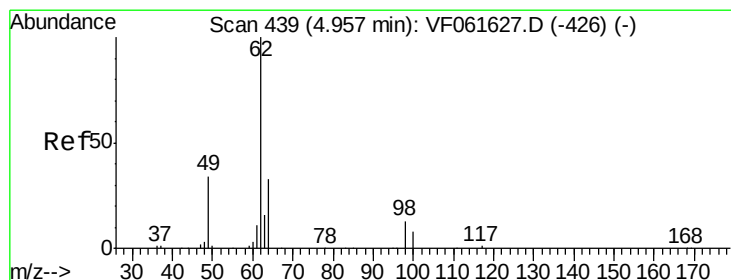
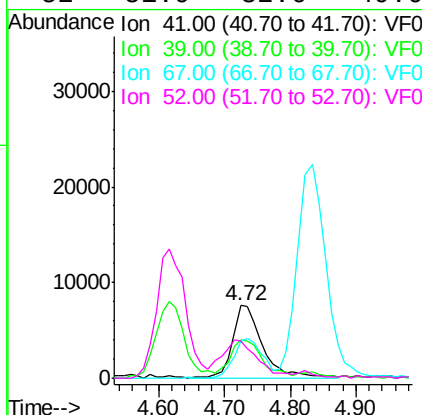
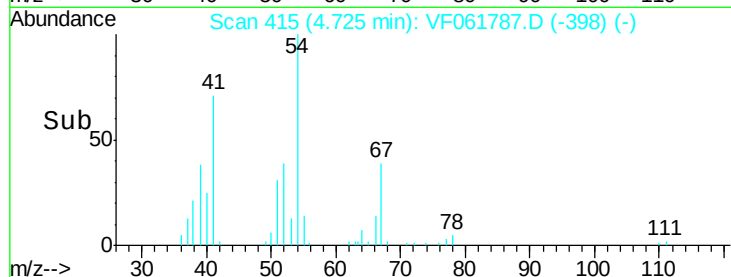
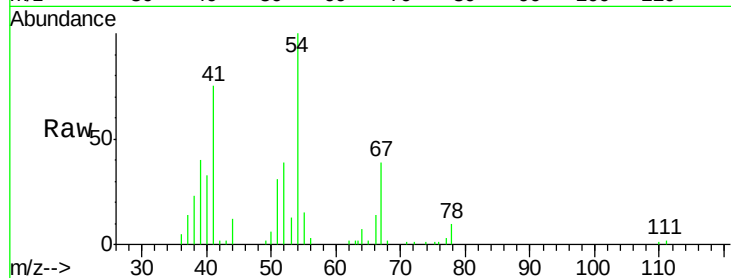
#41
Methacrylonitrile
Concen: 22.995 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.04 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	41	Resp	24887
Ion Ratio	Lower	Upper	
41	100		
39	53.3	45.3	67.9
67	51.9	49.3	73.9
52	51.9	32.6	49.0#

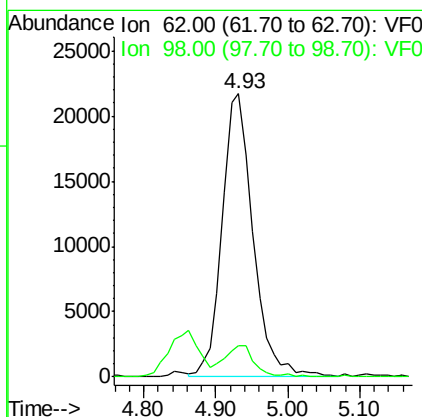
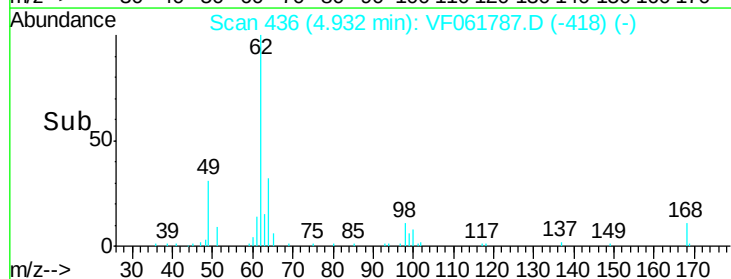
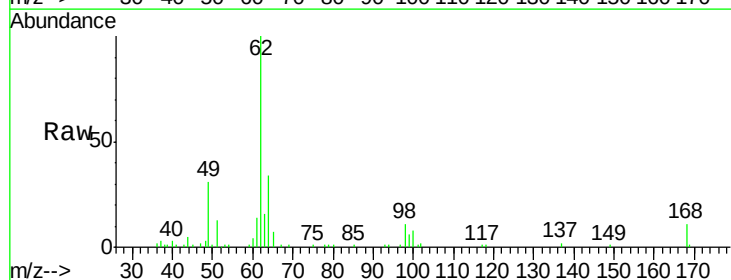
Manual Integrations
APPROVED

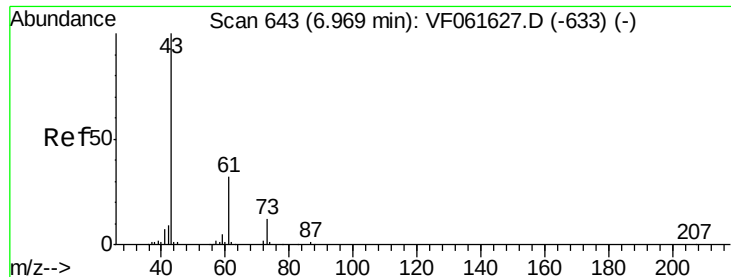
MMDadoda
3/2/2019 4:09:38 AM



#42
1,2-Dichloroethane
Concen: 22.711 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	62	Resp	64744
Ion Ratio	Lower	Upper	
62	100		
98	10.9	0.0	26.0





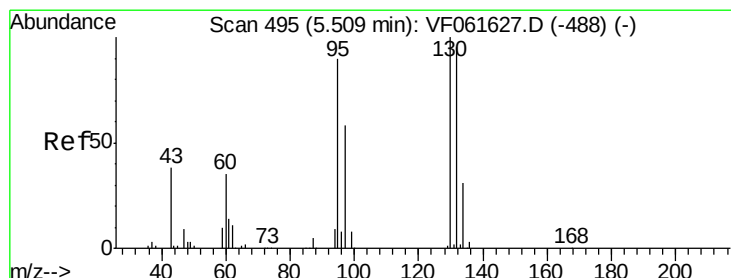
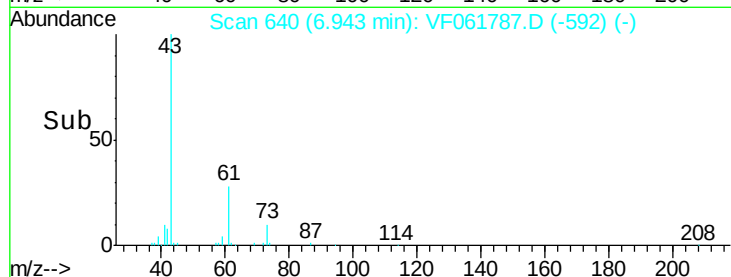
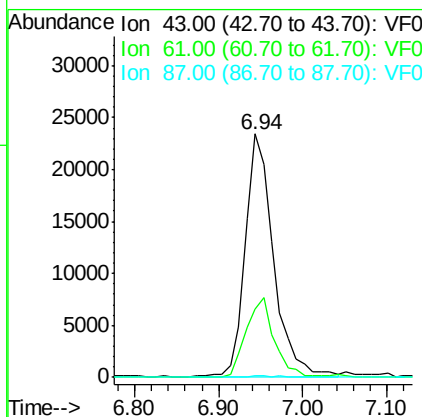
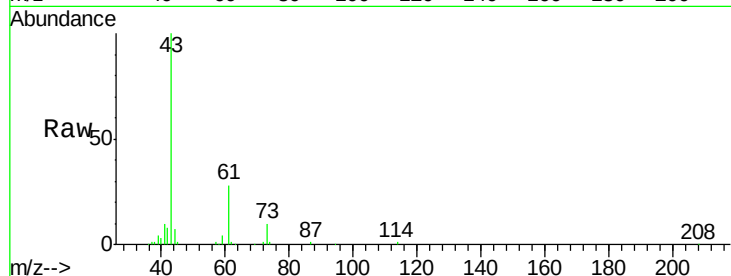
#43
Isopropyl Acetate
Concen: 22.169 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.0	25.8	38.6
87	0.5	0.4	0.6

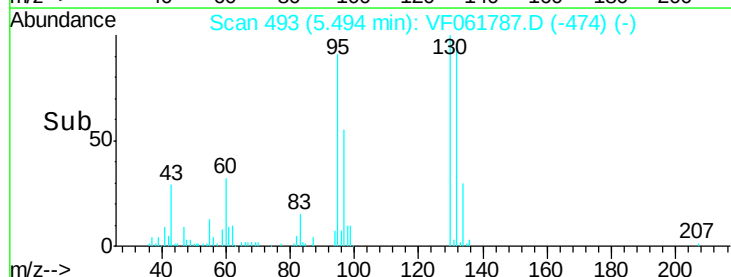
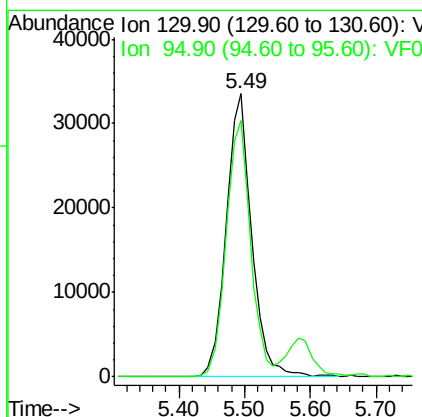
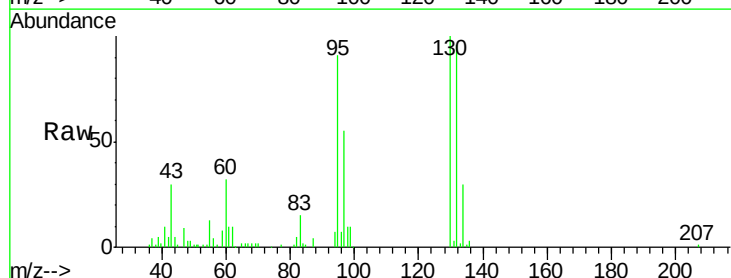
Manual Integrations
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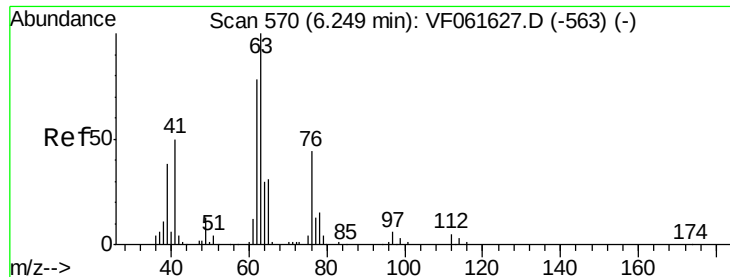
MMDadoda
3/2/2019 4:09:38 AM



#44
Trichloroethene
Concen: 23.622 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.5	0.0	179.4





#45

1,2-Dichloropropane

Concen: 23.664 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 63 Resp: 68172

Ion Ratio Lower Upper

63 100

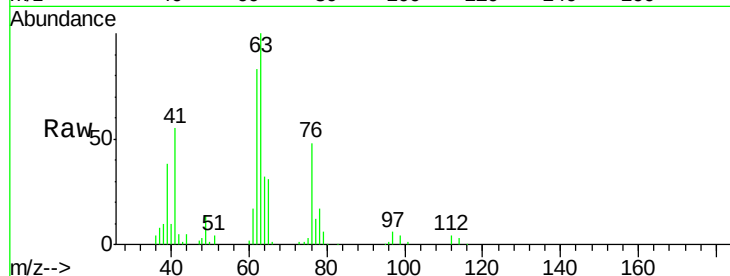
65 31.4 24.9 37.3

Manual Integrations

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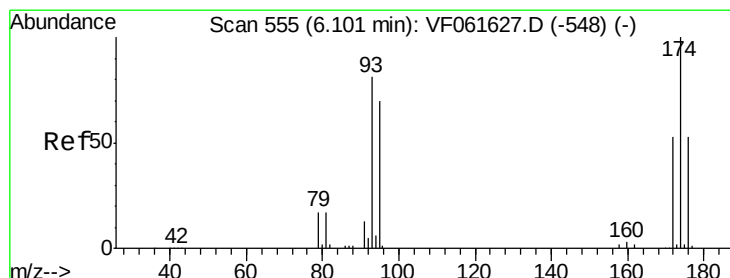
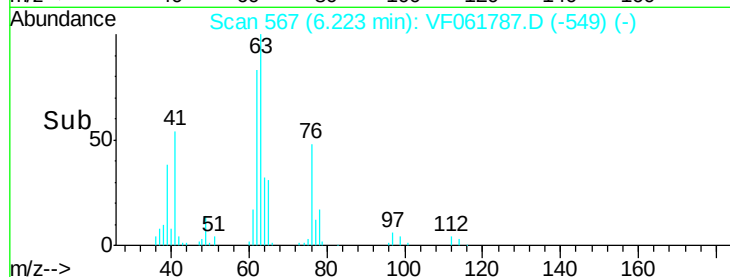
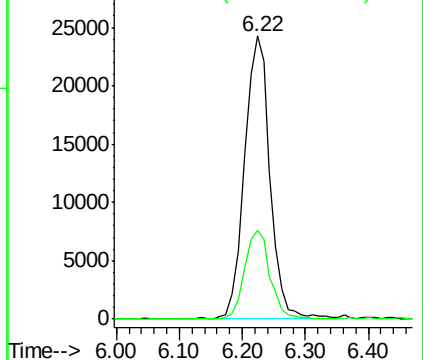
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 22.321 ug/l

RT: 6.08 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

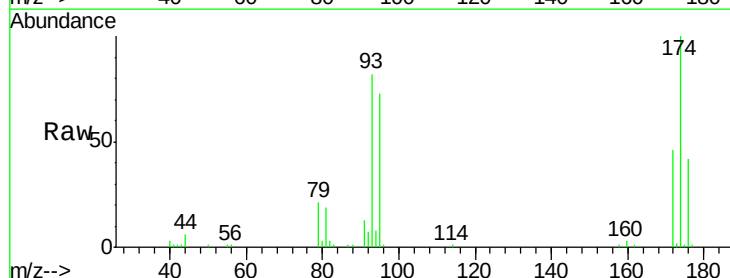
Tgt Ion: 93 Resp: 39591

Ion Ratio Lower Upper

93 100

95 89.3 69.0 103.6

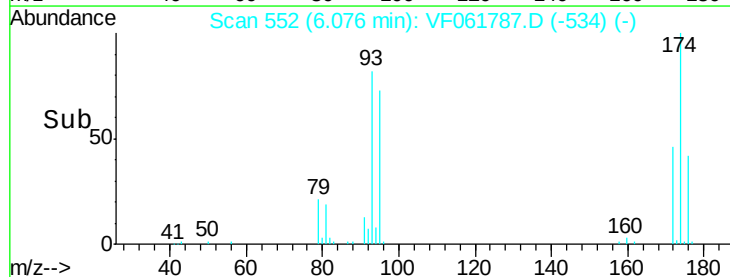
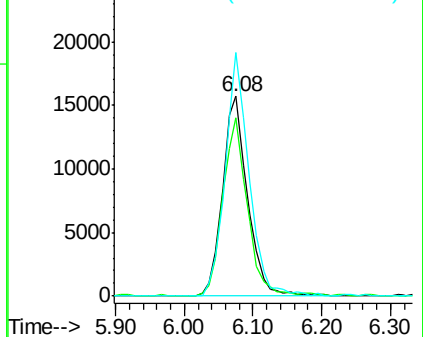
174 121.8 99.3 148.9

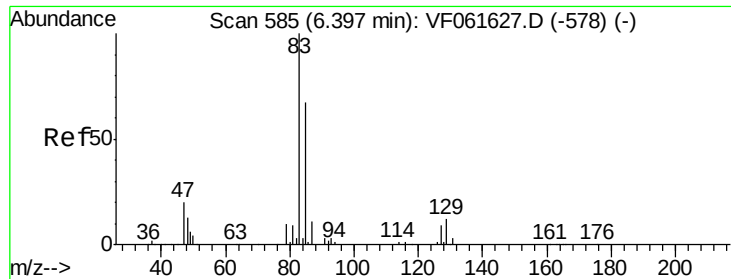


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 23.291 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

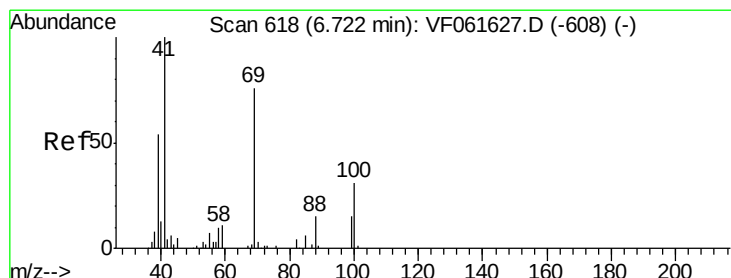
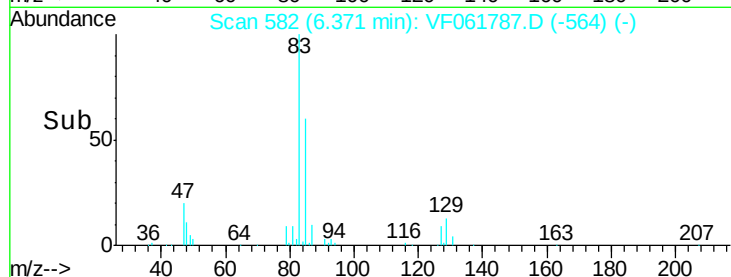
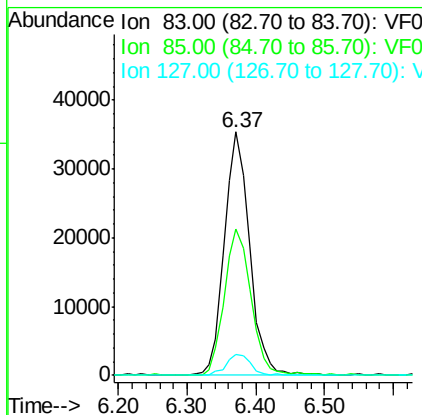
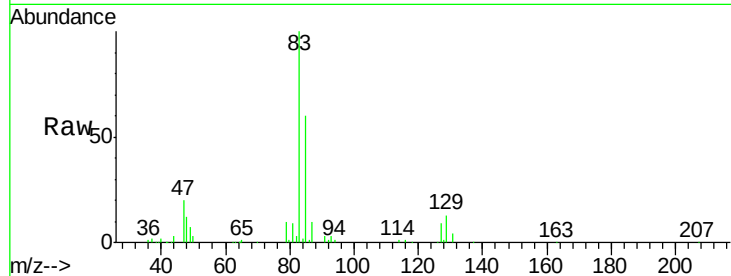
ClientSampleId :

VF0228SBS01

Tot Ion:	83	Resp:	90469
Ion	Ratio	Lower	Upper
83	100		
85	59.9	53.4	80.2
127	8.6	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 22.147 ug/l

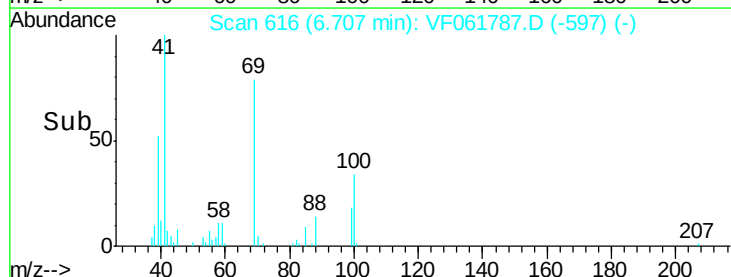
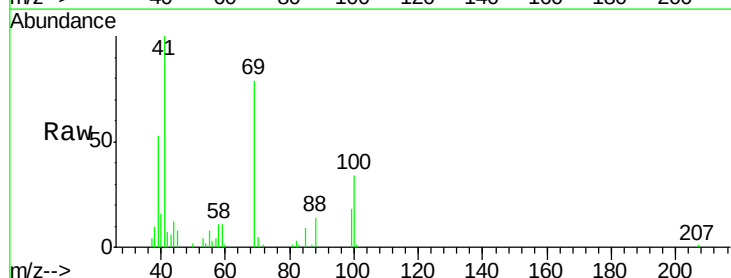
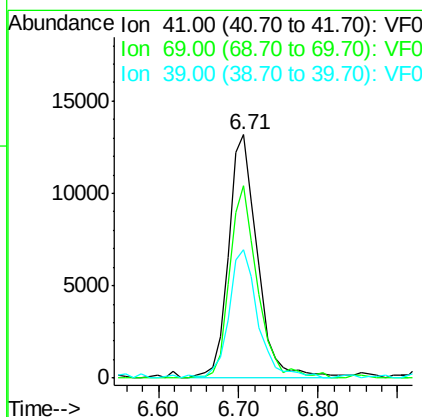
RT: 6.71 min Scan# 616

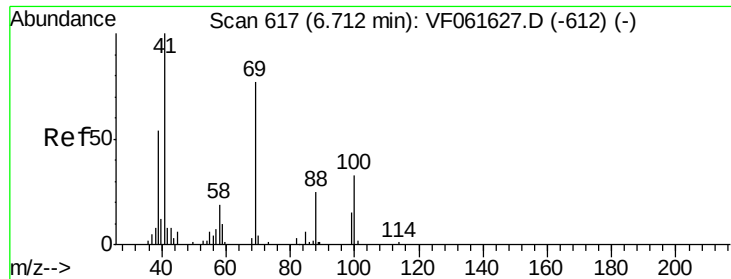
Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	41	Resp:	33387
Ion	Ratio	Lower	Upper
41	100		
69	79.0	60.4	90.6
39	52.7	43.7	65.5





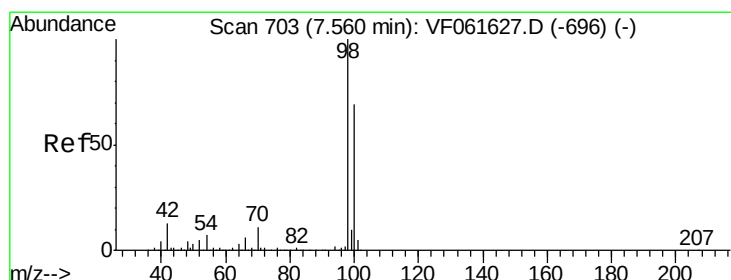
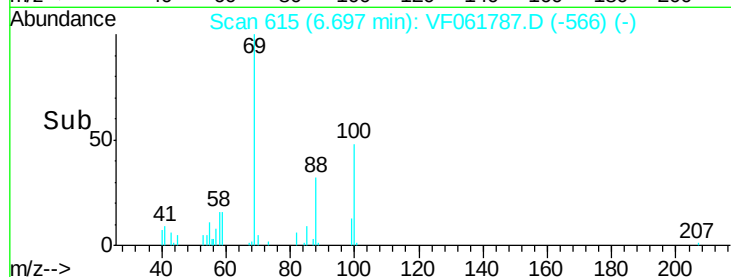
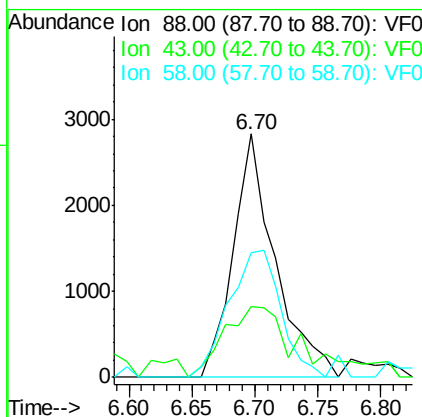
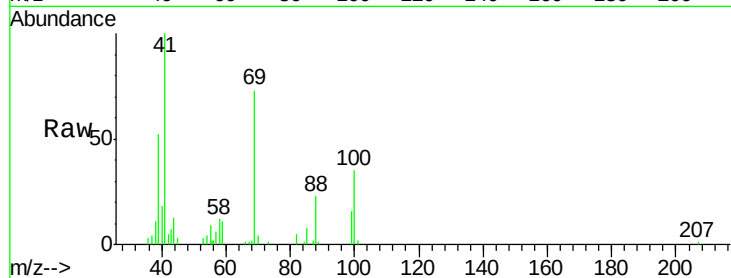
#49
1,4-Dioxane
Concen: 459.090 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	29.0		32.3	48.5#
58	51.2		59.4	89.2#

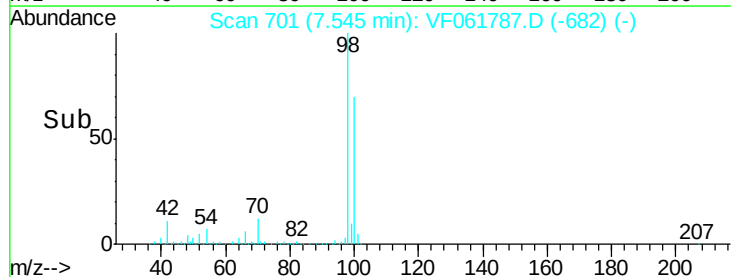
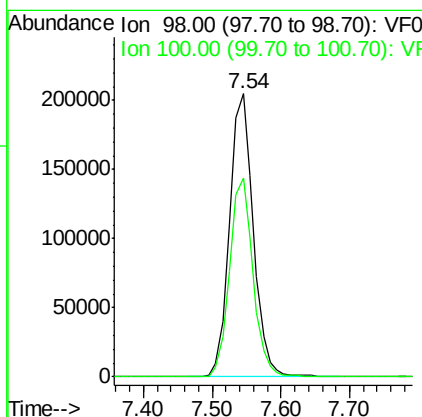
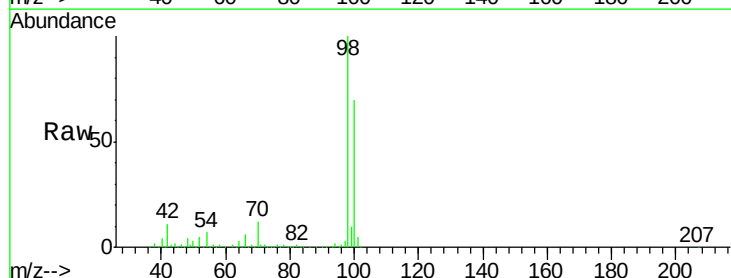
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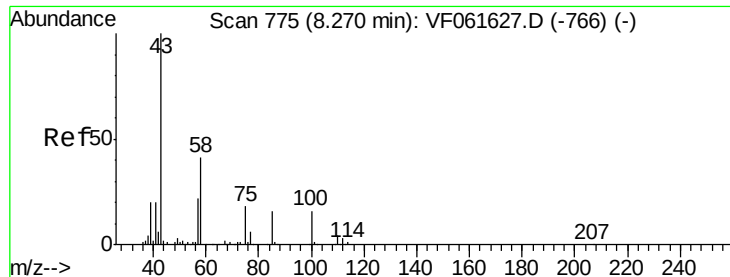
MMDadoda
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#50
Toluene-d8
Concen: 49.892 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	70.3		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 108.031 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 43 Resp: 193370

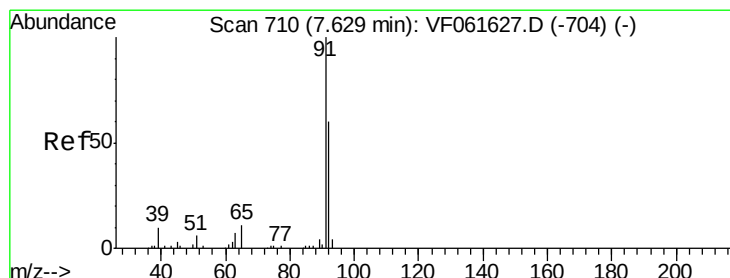
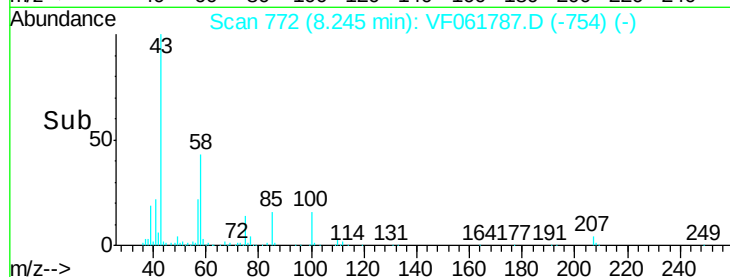
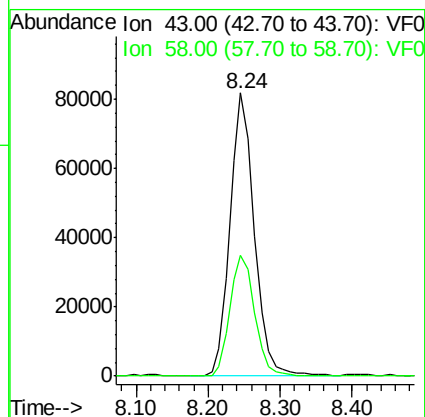
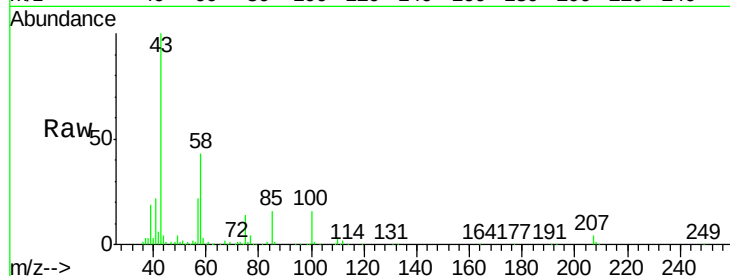
Ion Ratio Lower Upper

43 100

58 42.6 33.1 49.7

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3/2/2019 4:09:38 AM



#52

Toluene

Concen: 21.978 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061787.D

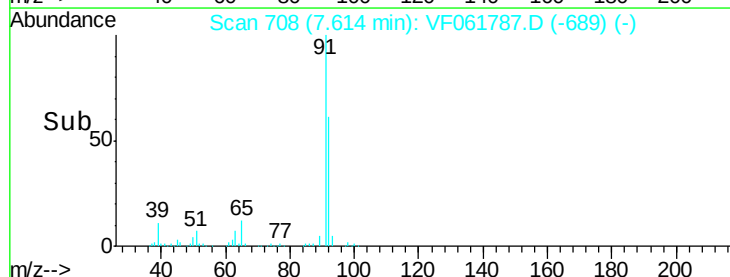
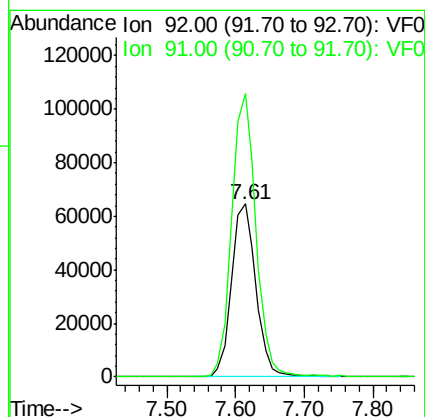
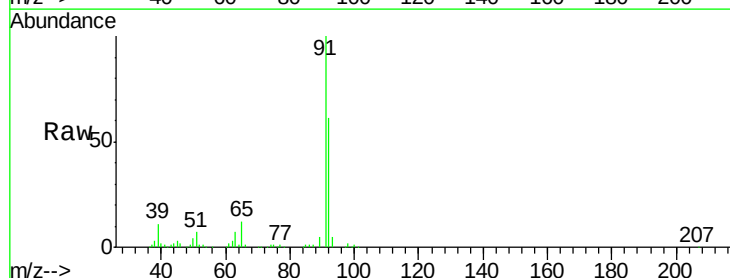
Acq: 28 Feb 2019 15:01

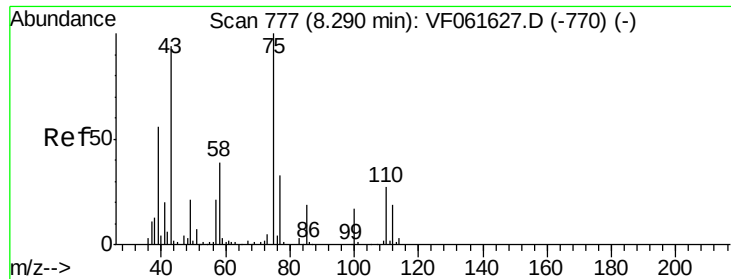
Tgt Ion: 92 Resp: 158857

Ion Ratio Lower Upper

92 100

91 163.4 133.9 200.9





#53

t-1,3-Dichloropropene

Concen: 22.853 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tot Ion: 75 Resp: 73876

Ion Ratio Lower Upper

75 100

77 34.3 26.2 39.2

Instrument :

MSVOA_F

ClientSampleId :

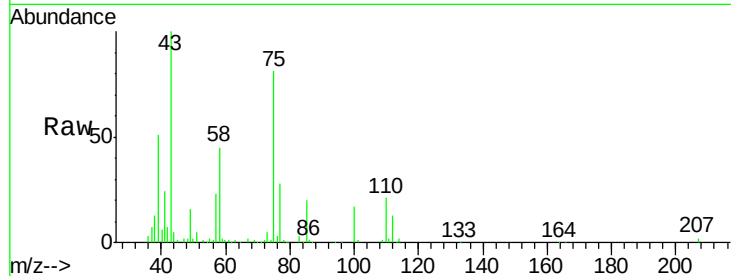
VF0228SBS01

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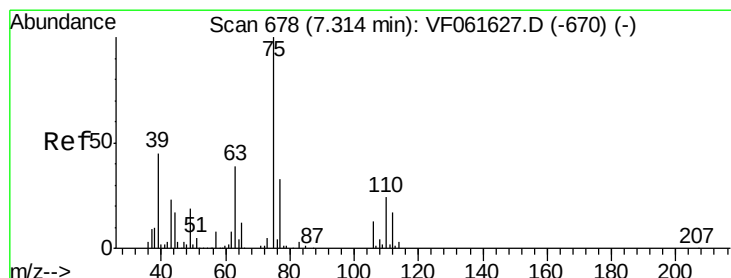
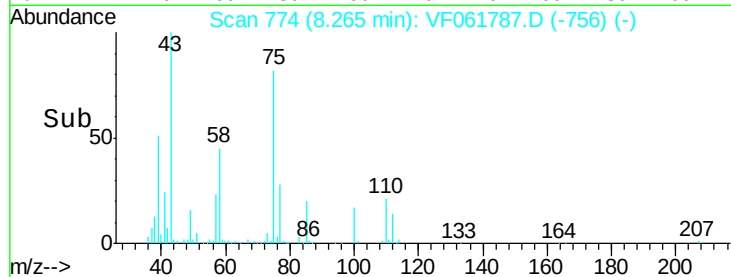
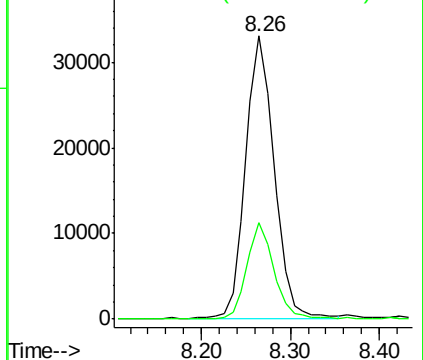
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3/2/2019 4:09:38 AM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 23.356 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

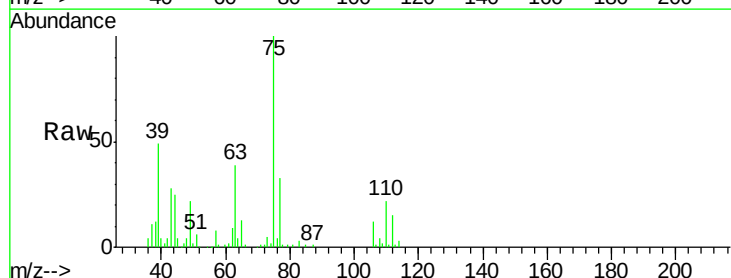
Tgt Ion: 75 Resp: 100569

Ion Ratio Lower Upper

75 100

77 33.1 26.4 39.6

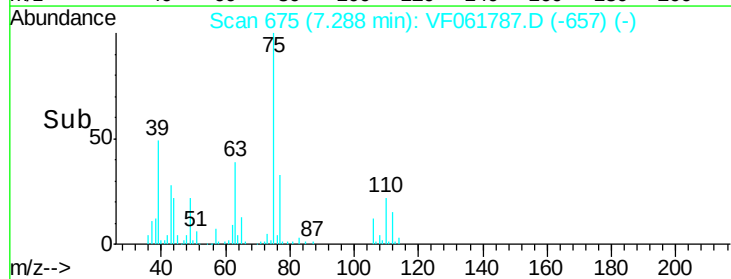
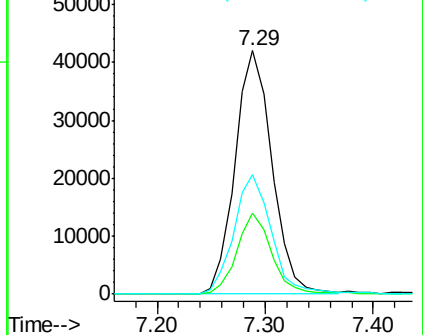
39 49.0 36.0 54.0

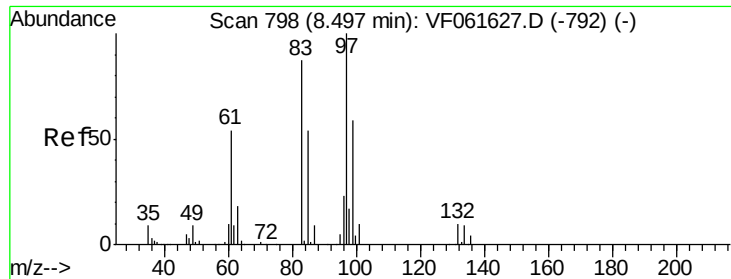


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 21.953 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

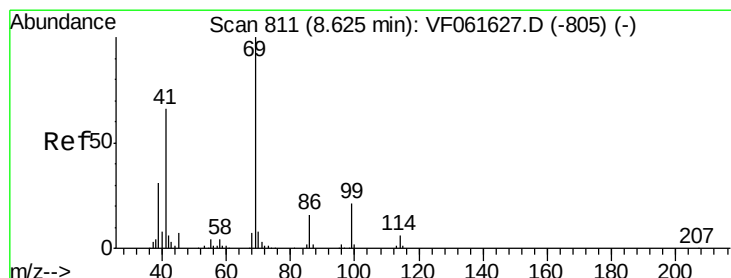
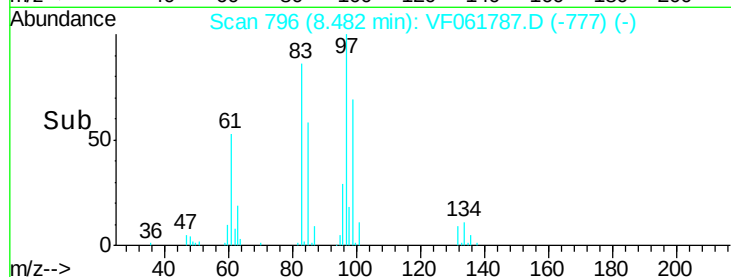
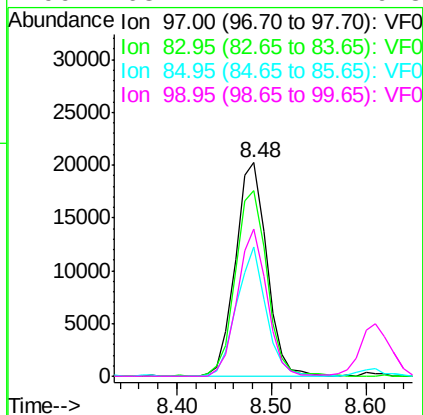
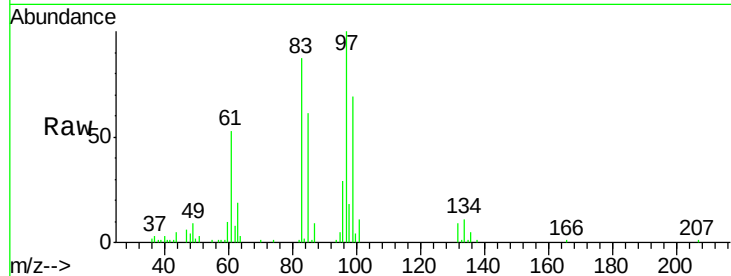
ClientSampleId :

VF0228SBS01

Tot Ion:	97	Resp:	46622
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.2	103.8
85	60.7	43.0	64.4
99	68.7	47.2	70.8

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#56

Ethyl methacrylate

Concen: 21.905 ug/l

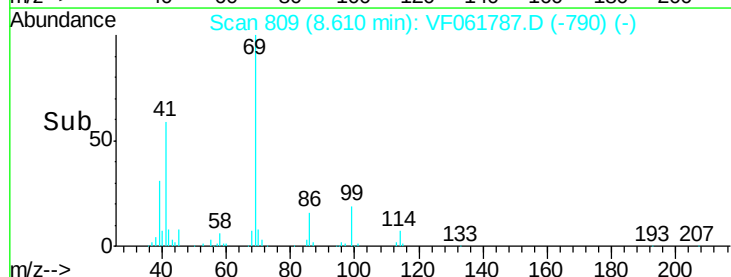
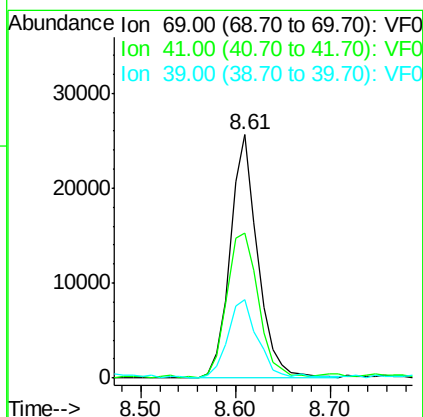
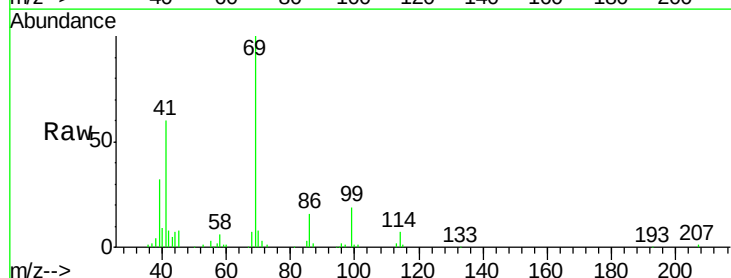
RT: 8.61 min Scan# 809

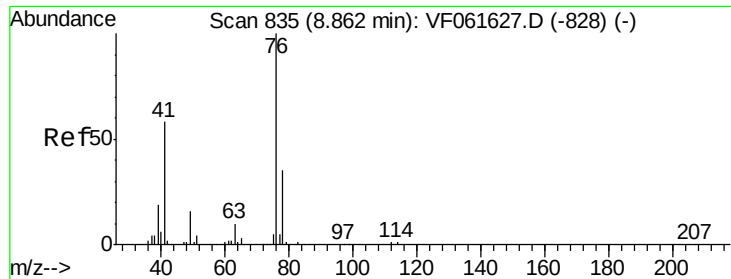
Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	69	Resp:	51793
Ion	Ratio	Lower	Upper
69	100		
41	59.5	52.9	79.3
39	32.3	24.5	36.7





#57

1,3-Dichloropropane

Concen: 22.721 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 76 Resp: 80537

Ion Ratio Lower Upper

76 100

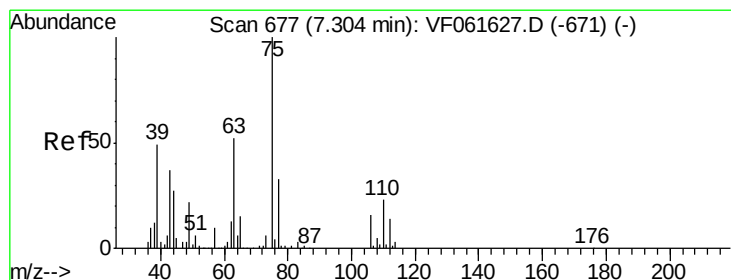
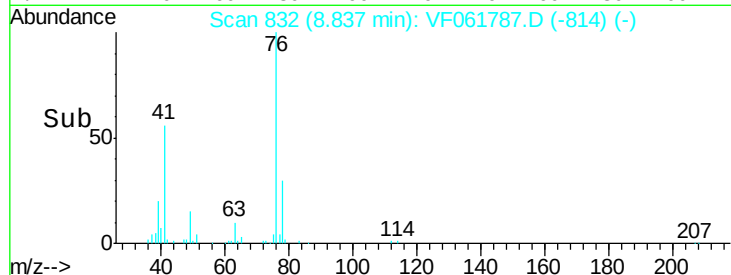
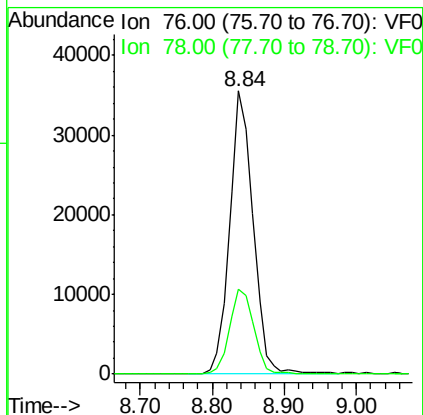
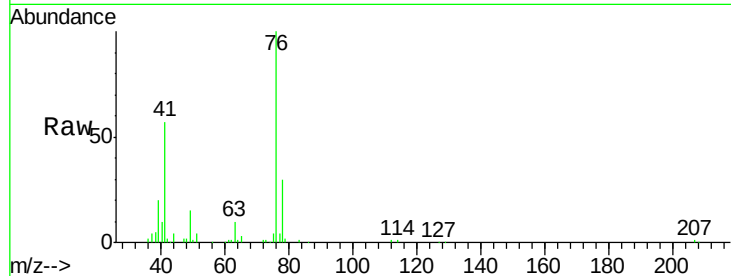
78 30.0 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 103.477 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061787.D

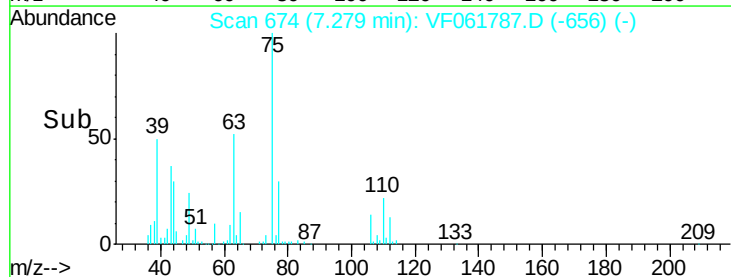
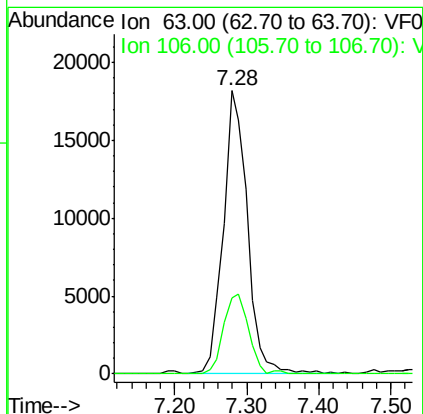
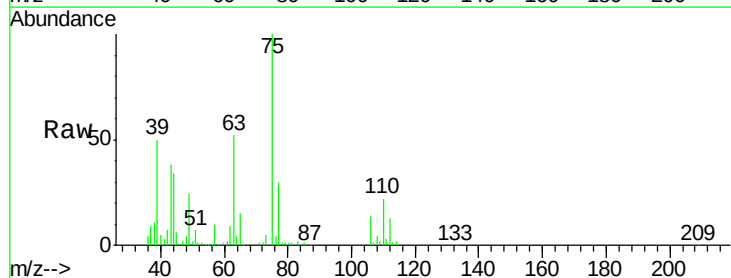
Acq: 28 Feb 2019 15:01

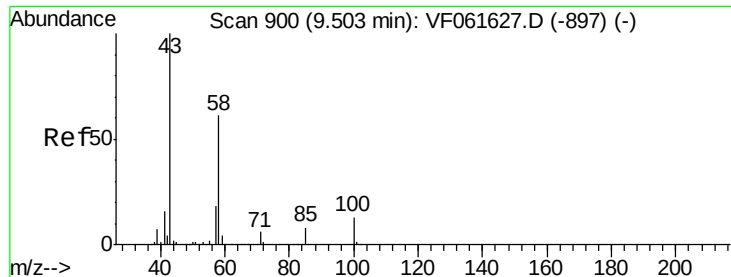
Tgt Ion: 63 Resp: 42213

Ion Ratio Lower Upper

63 100

106 26.9 24.6 36.8





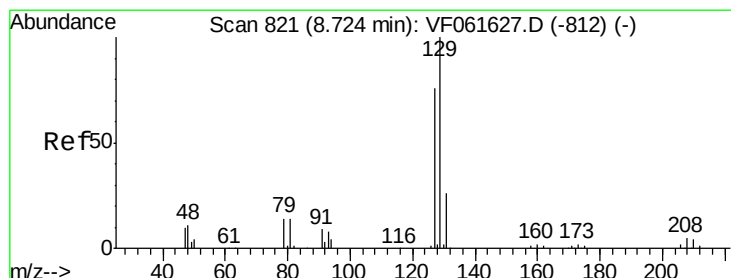
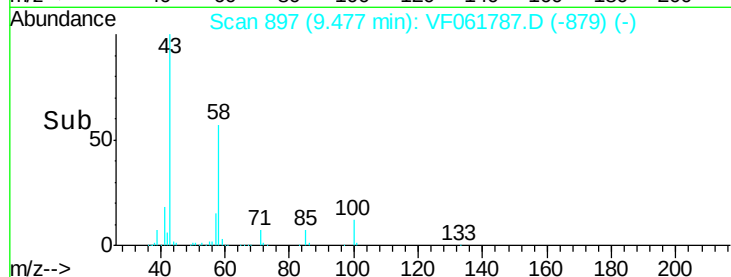
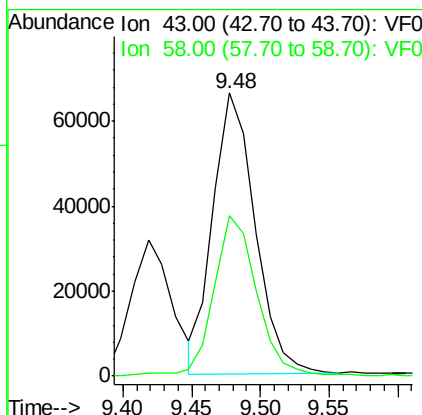
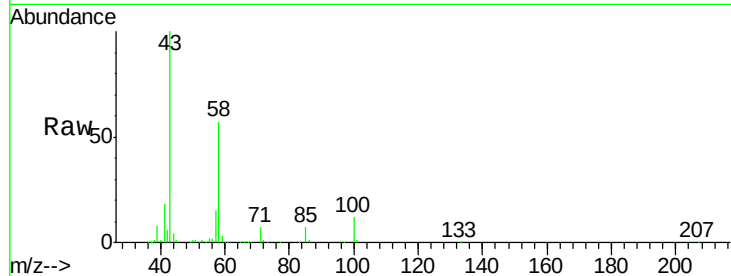
#59
2-Hexanone
Concen: 112.773 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.5	85.5

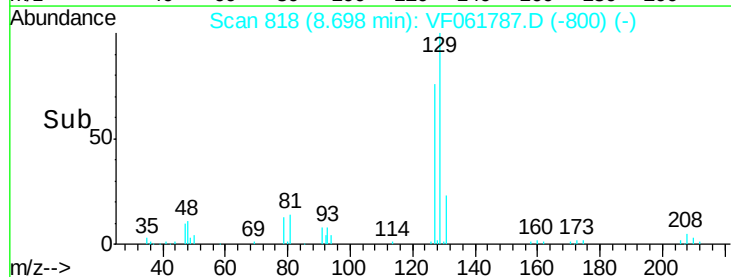
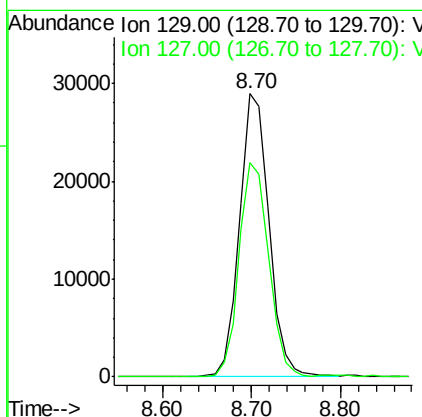
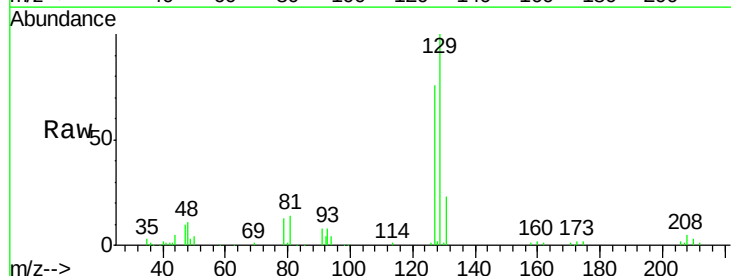
Manual Integrations
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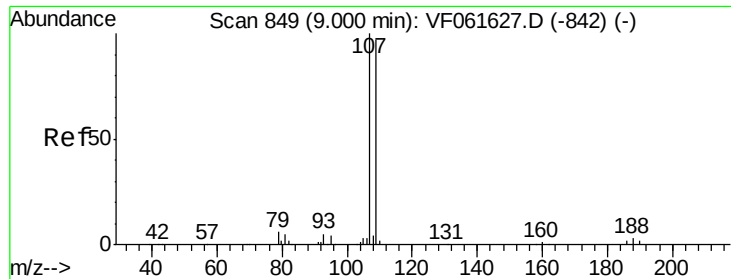
MMDadoda
3/2/2019 4:09:38 AM



#60
Dibromochloromethane
Concen: 22.545 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.6	37.8	113.4





#61

1,2-Dibromoethane

Concen: 21.464 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion:107 Resp: 49440

Ion Ratio Lower Upper

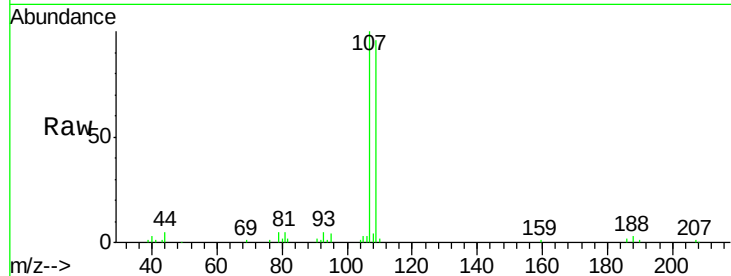
107 100

109 95.5 77.4 116.0

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

25000

20000

15000

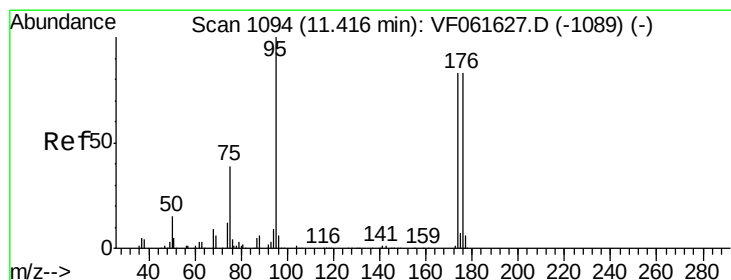
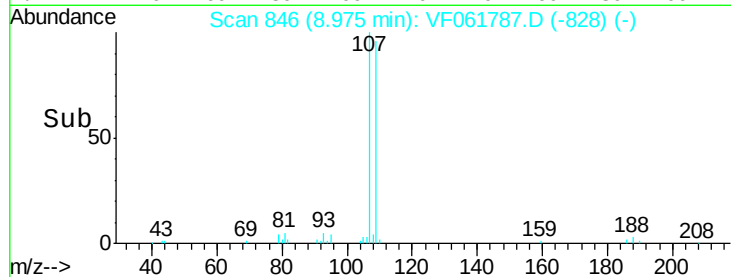
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 51.880 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

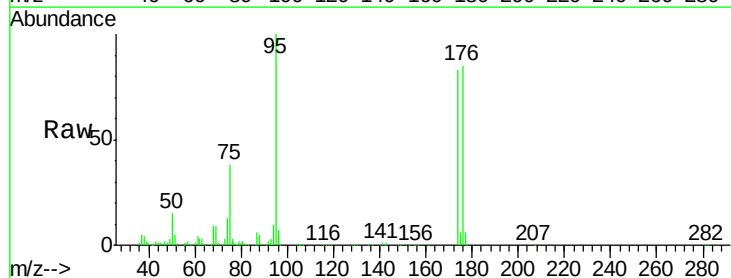
Tgt Ion: 95 Resp: 206115

Ion Ratio Lower Upper

95 100

174 83.3 0.0 165.8

176 84.9 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

150000

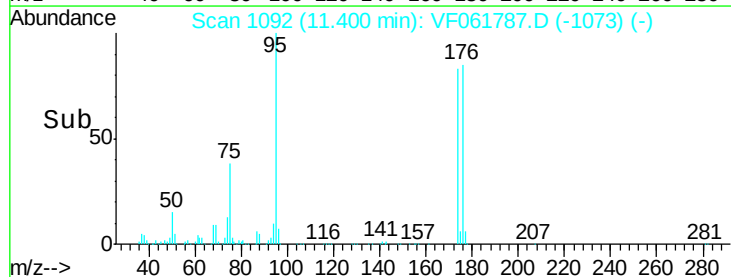
100000

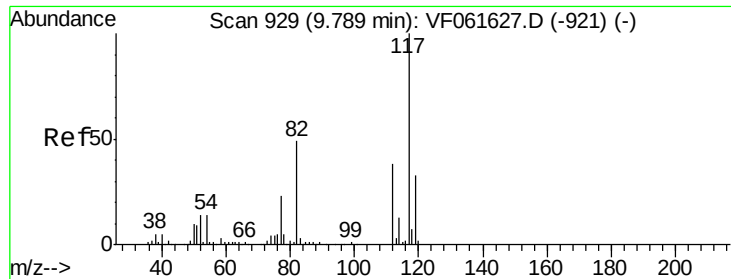
50000

0

Time-->

11.30 11.40 11.50





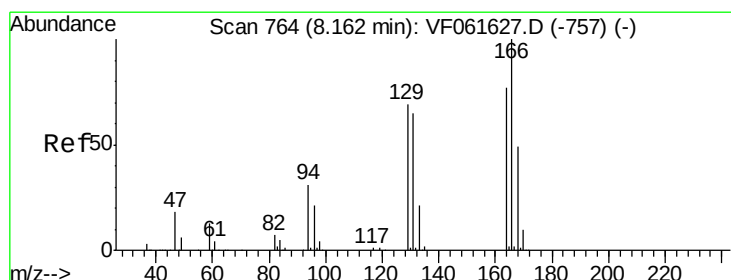
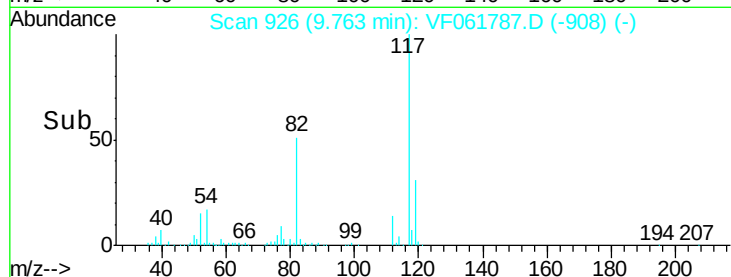
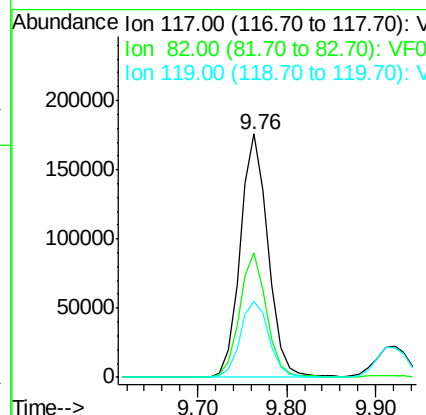
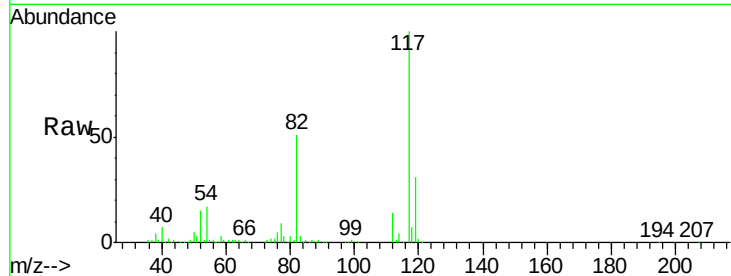
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	381492		
82	50.9	39.3	58.9	
119	31.3	26.6	40.0	

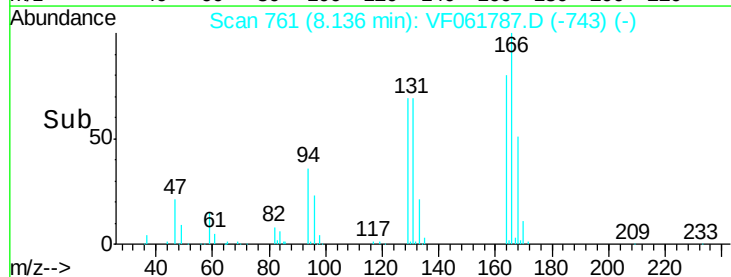
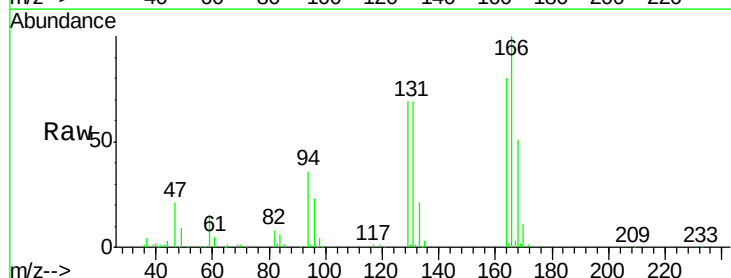
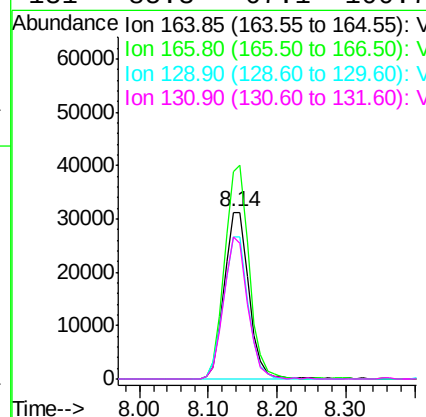
Manual Integrations
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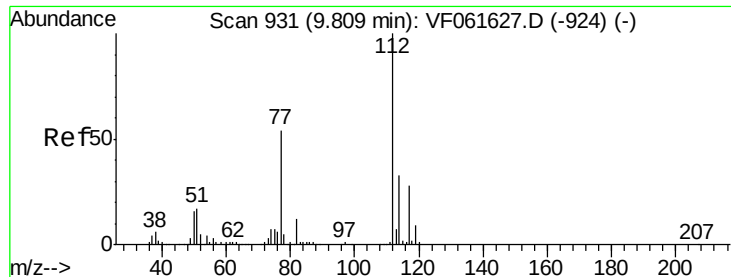
MMDadoda
3/2/2019 4:09:38 AM



#64
Tetrachloroethene
Concen: 24.822 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	77400		
166	124.4	103.9	155.9	
129	85.4	71.3	106.9	
131	85.3	67.1	100.7	





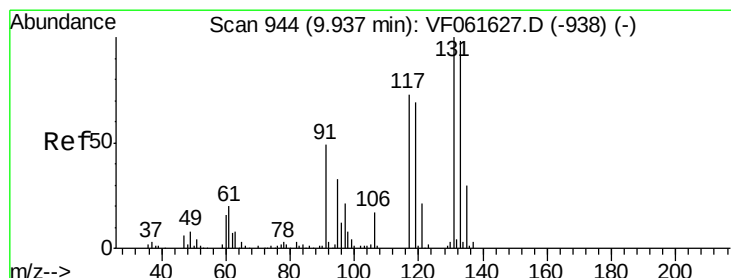
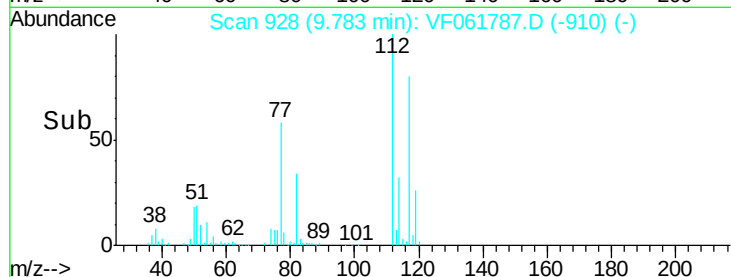
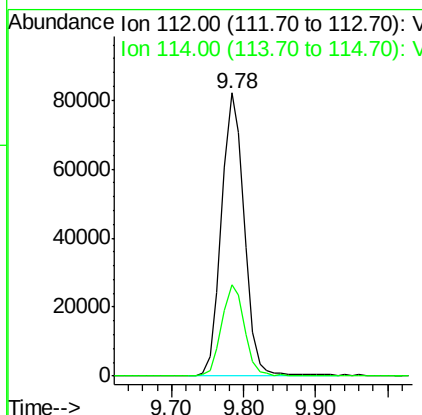
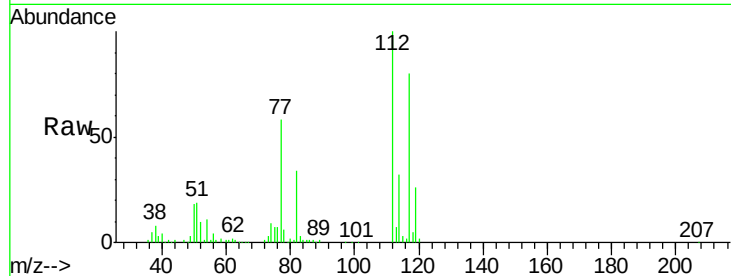
#65
Chlorobenzene
Concen: 23.272 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	180159		
114	32.5	26.2	39.2	

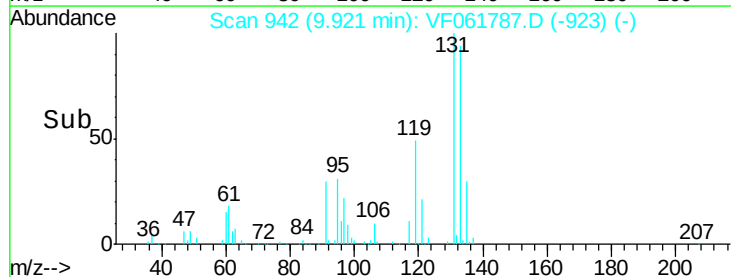
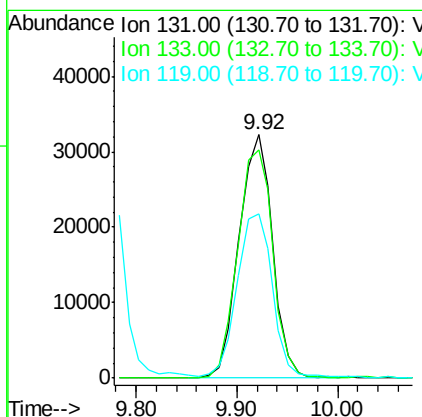
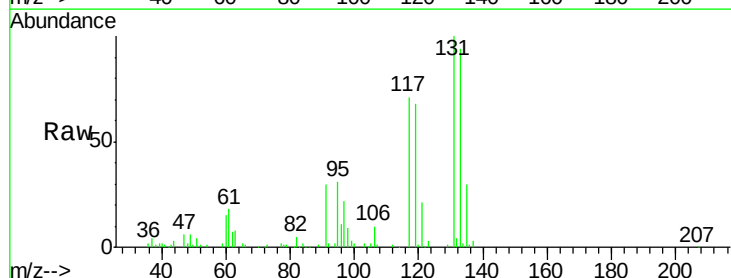
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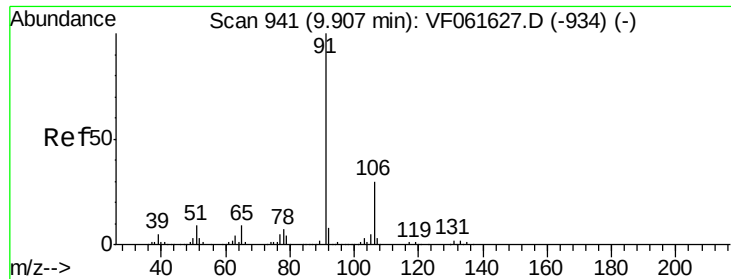
MMDadoda
3/2/2019 4:09:38 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 24.631 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	74718		
133	93.9	48.9	146.6	
119	67.6	34.8	104.3	





#67

Ethyl Benzene

Concen: 23.559 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 91 Resp: 303290

Ion Ratio Lower Upper

91 100

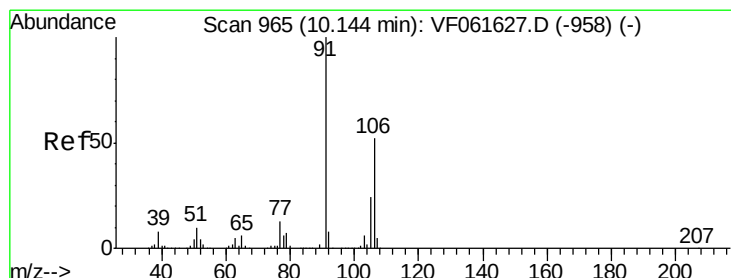
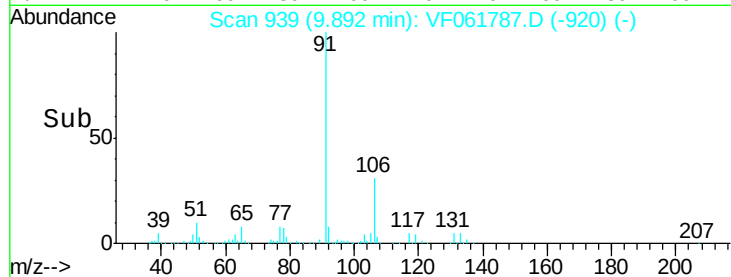
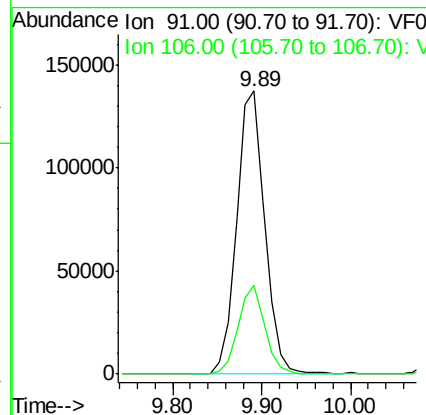
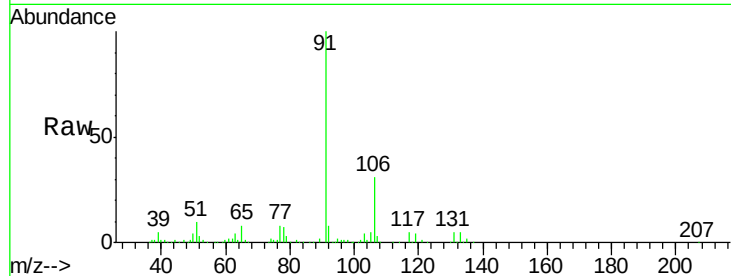
106 31.4 24.1 36.1

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3/2/2019 4:09:38 AM



#68

m/p-Xylenes

Concen: 49.460 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061787.D

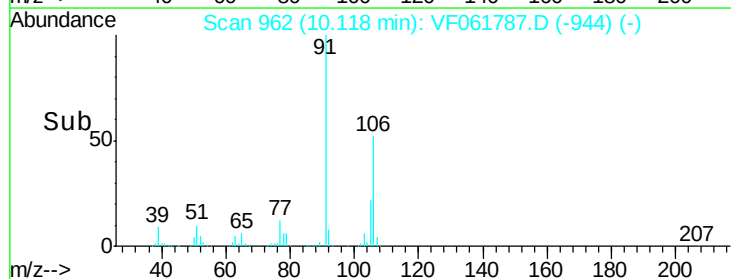
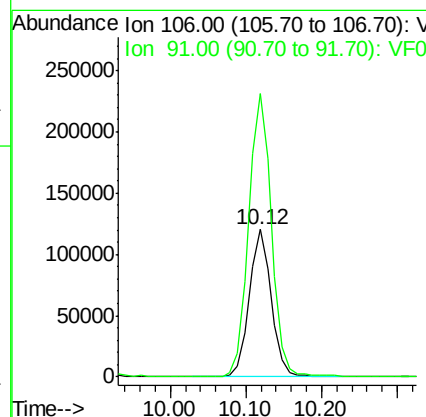
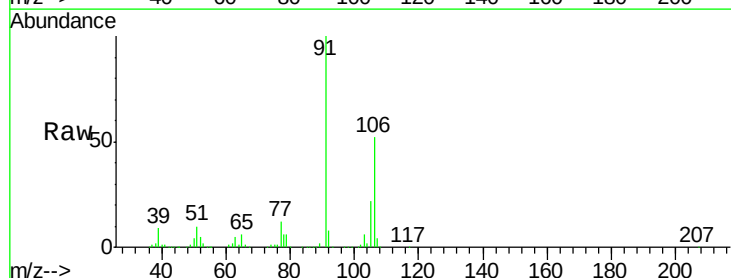
Acq: 28 Feb 2019 15:01

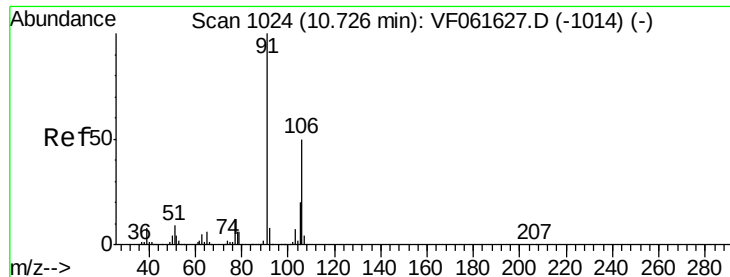
Tgt Ion: 106 Resp: 243690

Ion Ratio Lower Upper

106 100

91 191.8 153.0 229.6





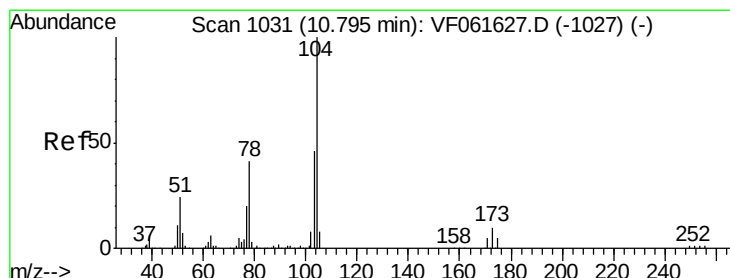
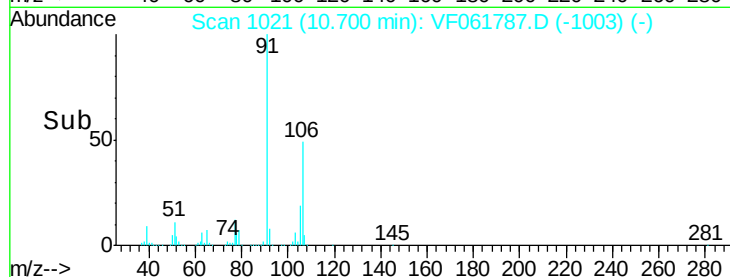
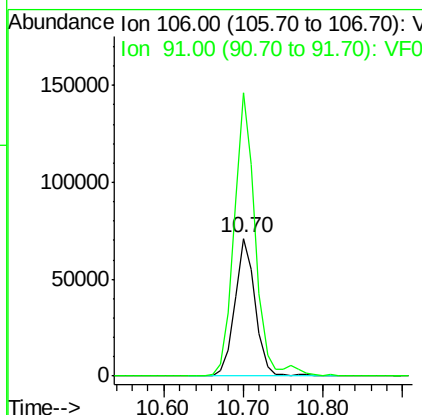
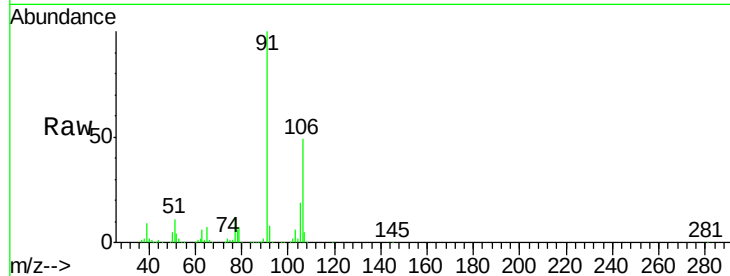
#69
o-Xylene
Concen: 24.220 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	127335		
91	206.0	100.1	300.1		

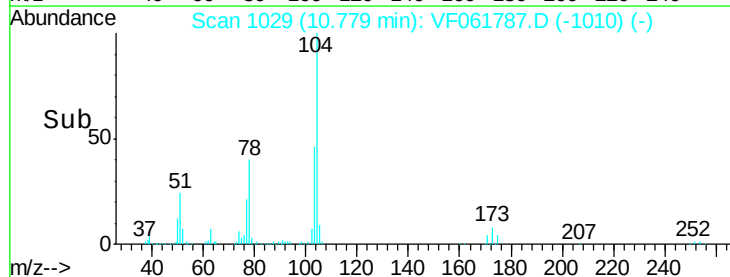
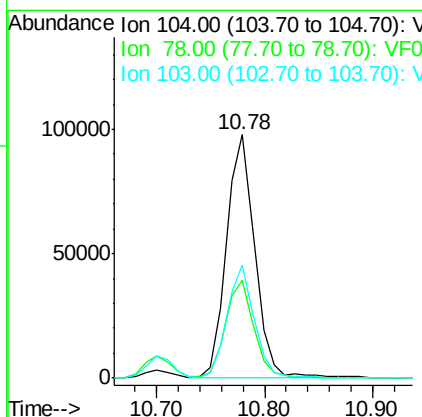
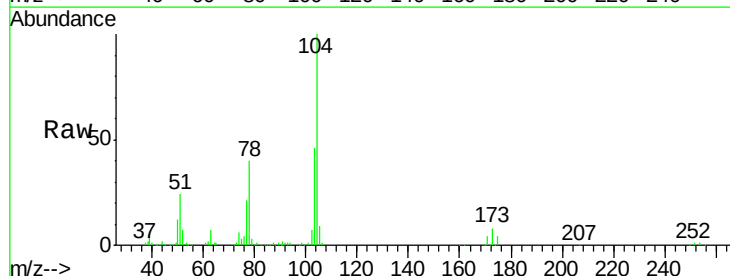
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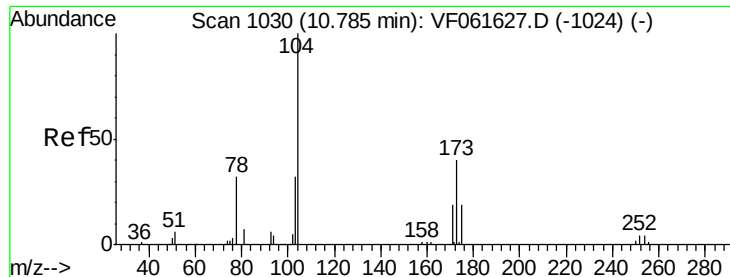
MMDadoda
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#70
Styrene
Concen: 23.813 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	177105		
78	40.4	33.2	49.8		
103	46.4	37.2	55.8		





#71

Bromoform

Concen: 23.843 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion:173 Resp: 39274

Ion Ratio Lower Upper

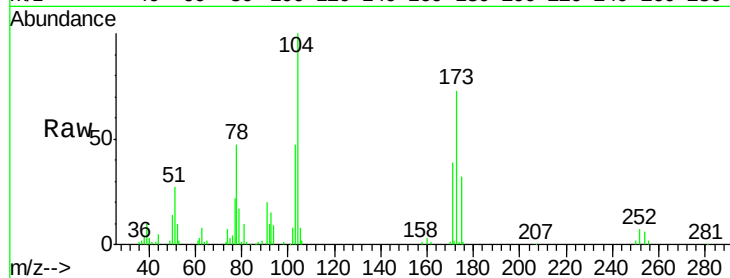
173 100

175 44.6 24.0 72.0

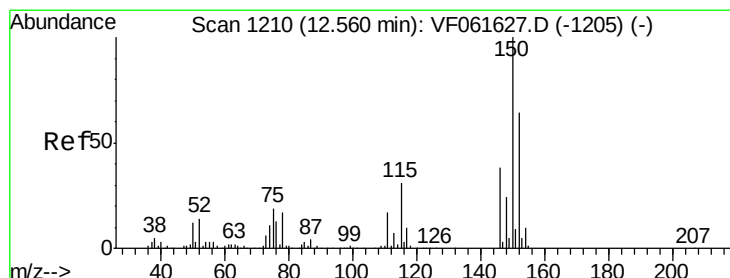
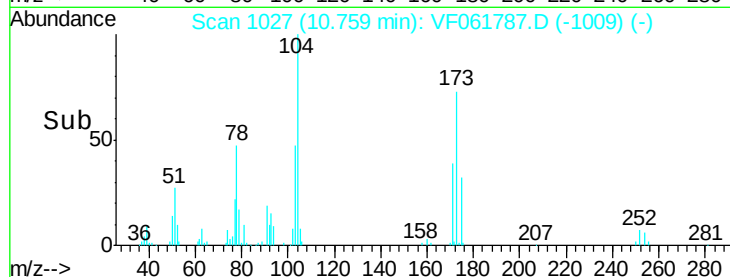
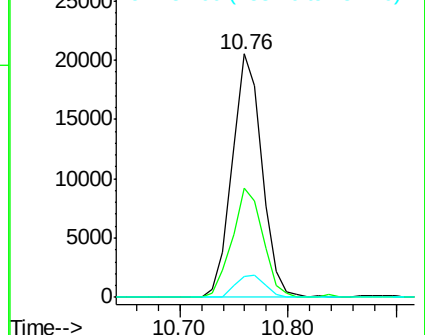
254 8.3 8.2 12.2

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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

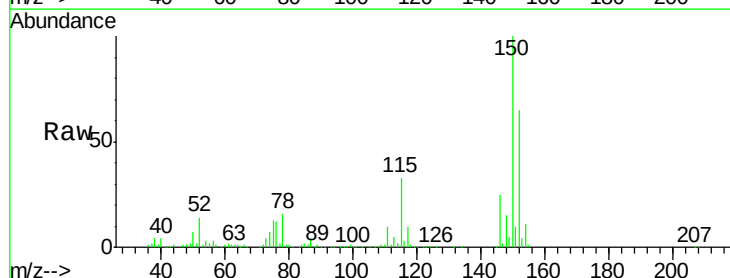
Tgt Ion:152 Resp: 233665

Ion Ratio Lower Upper

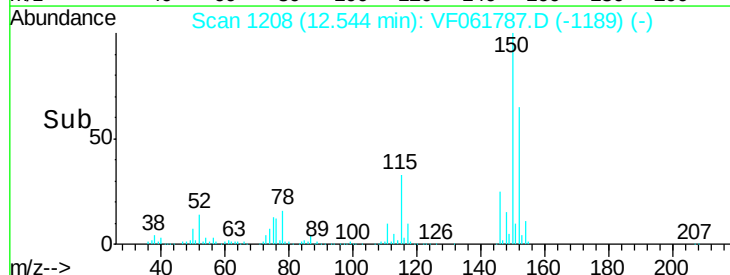
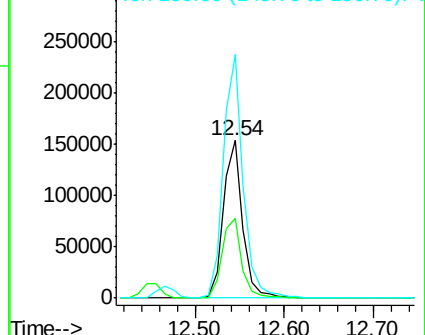
152 100

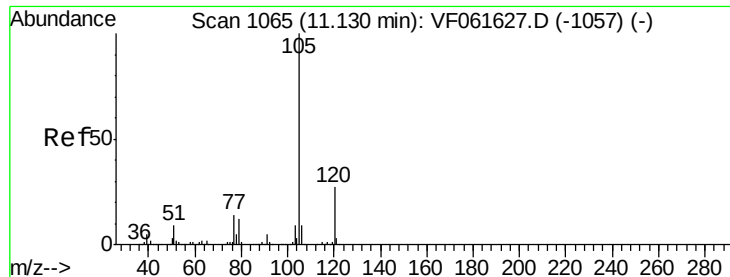
115 50.7 24.3 72.8

150 154.3 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.344 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion:105 Resp: 355098

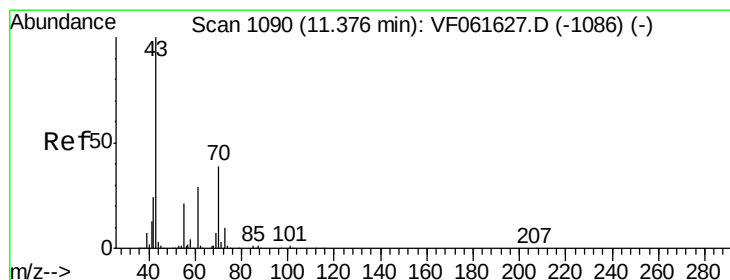
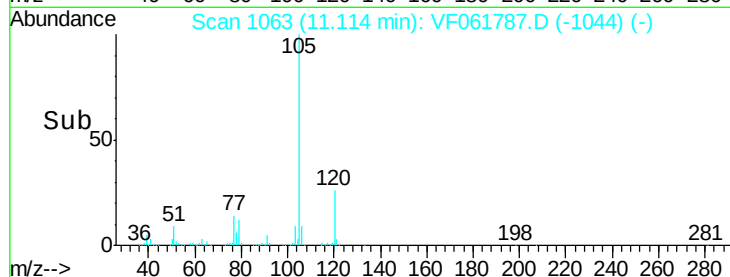
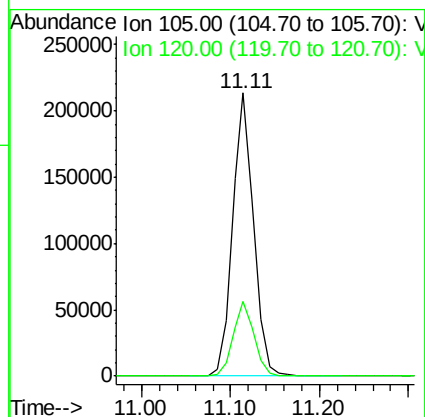
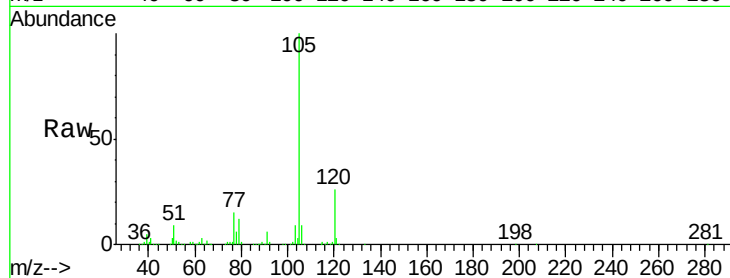
Ion Ratio Lower Upper

105 100

120 26.5 13.4 40.1

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#74

N-ethyl acetate

Concen: 22.519 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion: 43 Resp: 89923

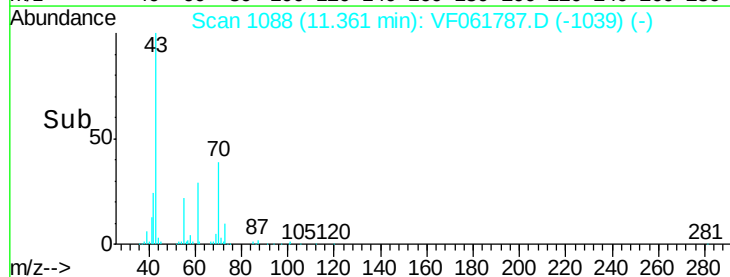
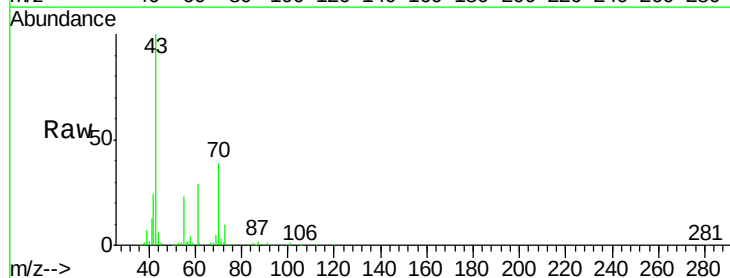
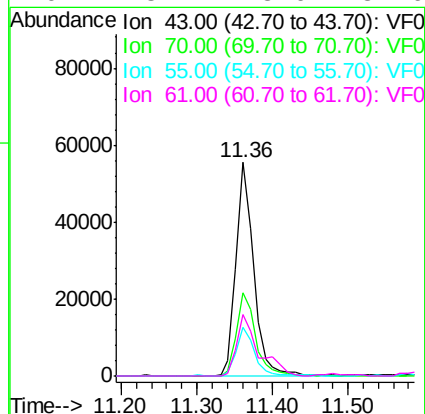
Ion Ratio Lower Upper

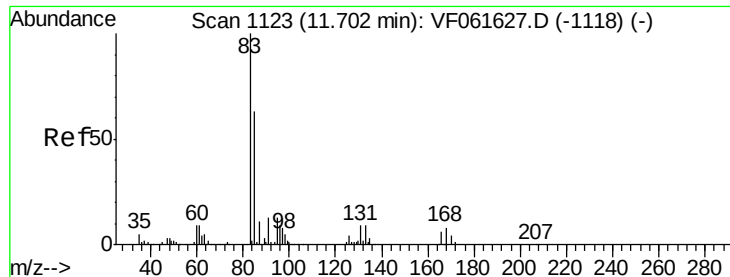
43 100

70 38.9 31.5 47.3

55 22.5 16.7 25.1

61 28.7 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.033 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

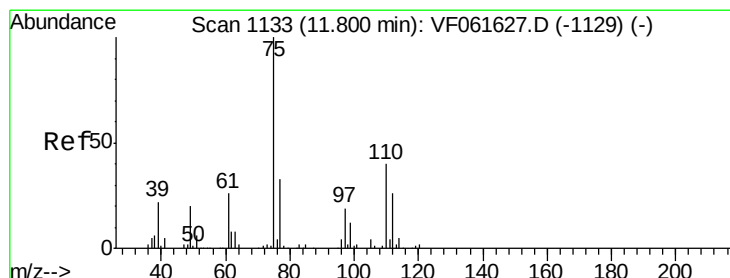
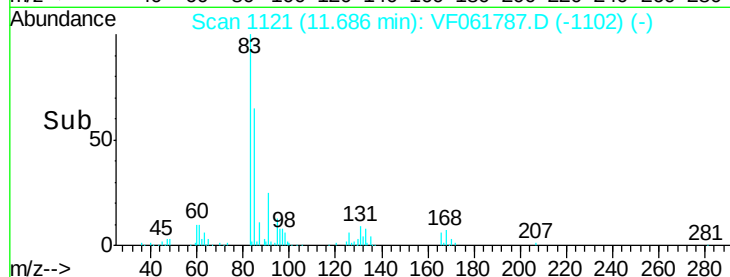
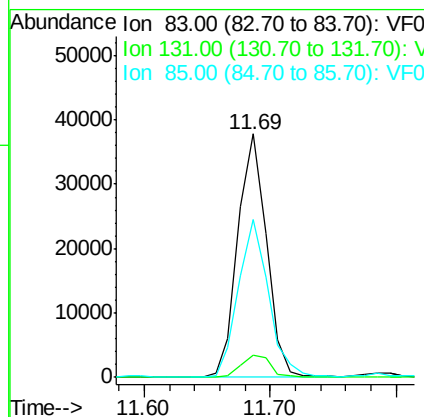
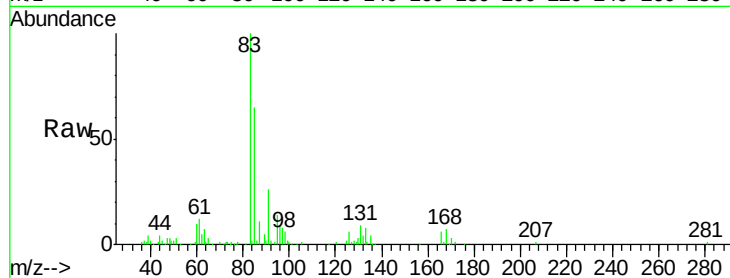
ClientSampleId :

VF0228SBS01

Tot Ion:	83	Resp:	59707
Ion Ratio	Lower	Upper	
83	100		
131	9.0	4.4	13.2
85	64.9	31.5	94.5

Manual Integrations
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3/2/2019 4:09:38 AM



#76

1,2,3-Trichloropropane

Concen: 20.519 ug/l

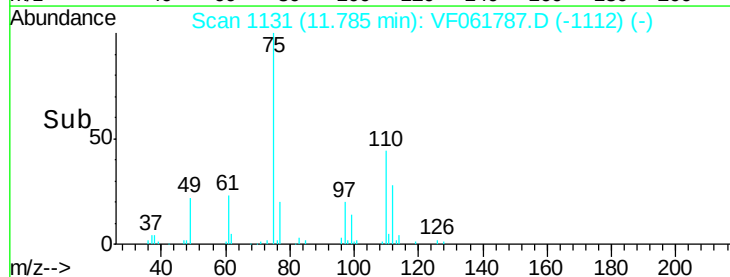
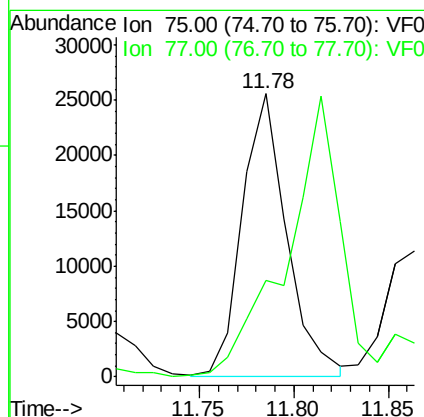
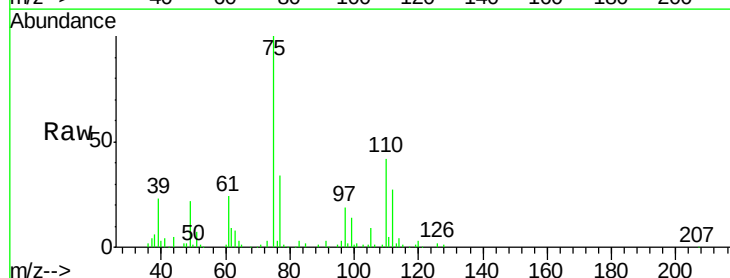
RT: 11.78 min Scan# 1131

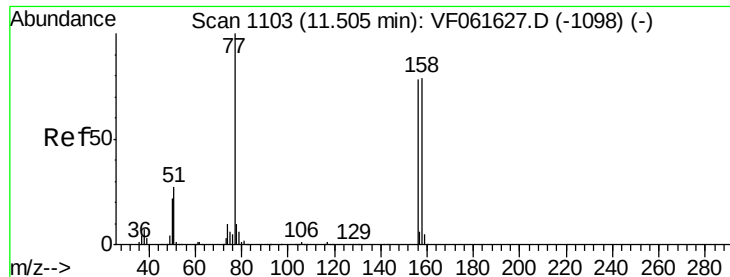
Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	75	Resp:	41579
Ion Ratio	Lower	Upper	
75	100		
77	34.2	16.6	49.7





#77

Bromobenzene

Concen: 20.878 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

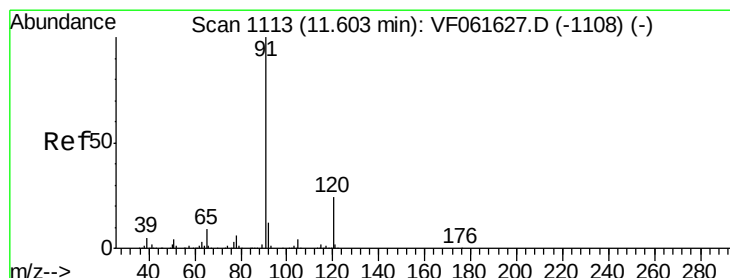
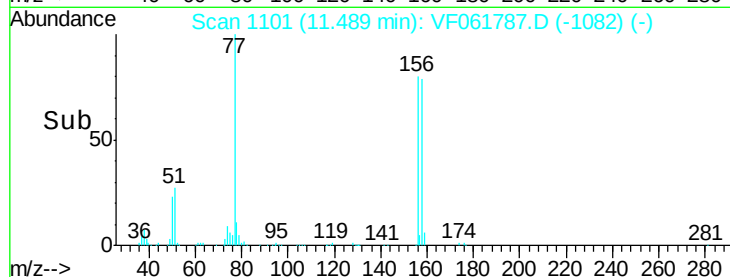
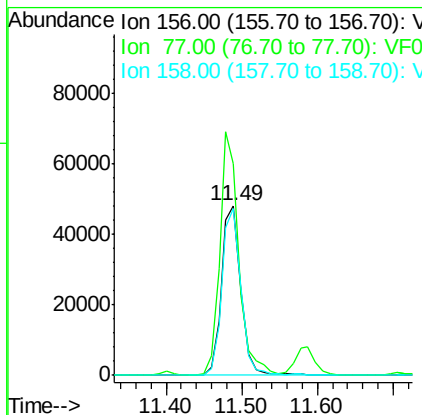
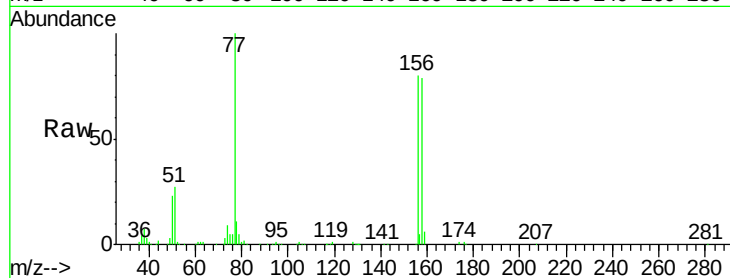
ClientSampleId :

VF0228SBS01

Tot Ion:	156	Resp:	85806
Ion Ratio	Lower	Upper	
156	100		
77	124.8	64.3	192.7
158	98.4	50.9	152.7

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#78

n-propylbenzene

Concen: 21.158 ug/l

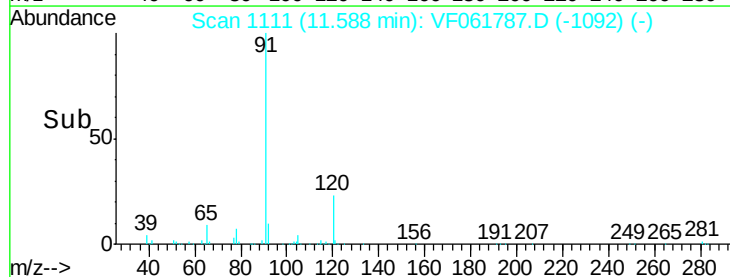
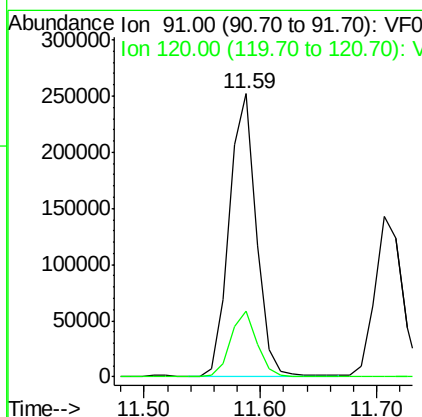
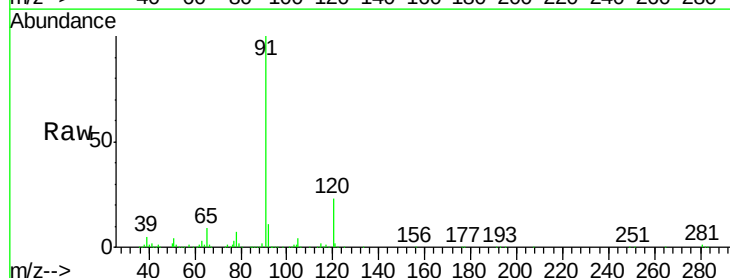
RT: 11.59 min Scan# 1111

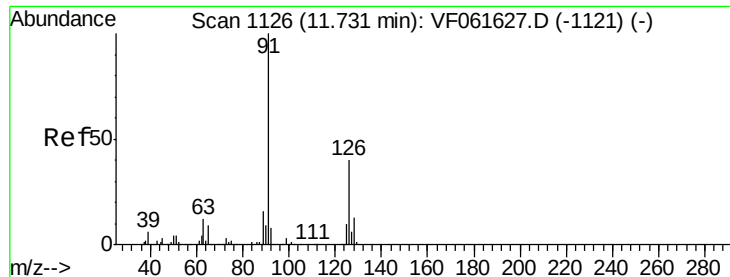
Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Tgt Ion:	91	Resp:	403927
Ion Ratio	Lower	Upper	
91	100		
120	23.1	12.1	36.3





#79

2-Chlorotoluene

Concen: 21.522 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion: 91 Resp: 230106

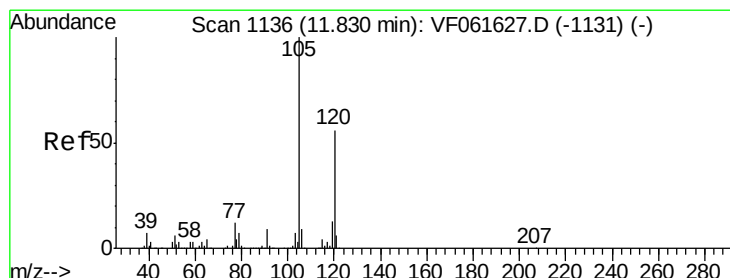
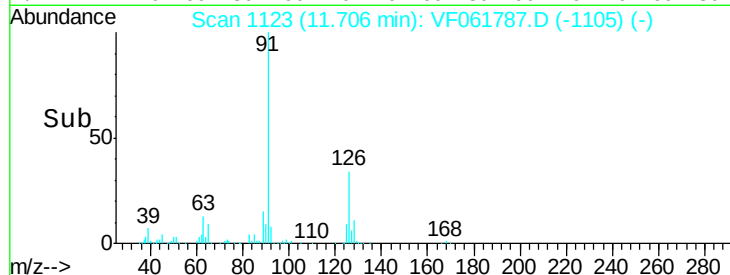
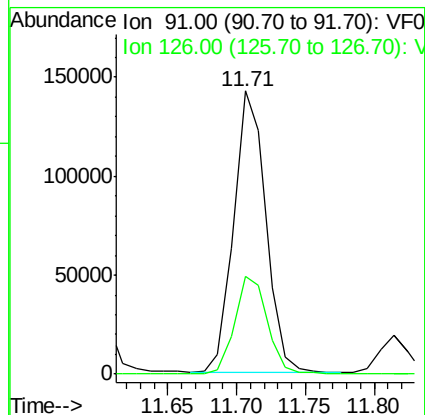
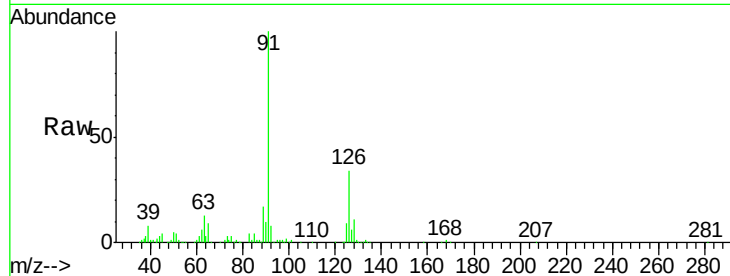
Ion Ratio Lower Upper

91 100

126 34.4 19.8 59.4

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 21.911 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061787.D

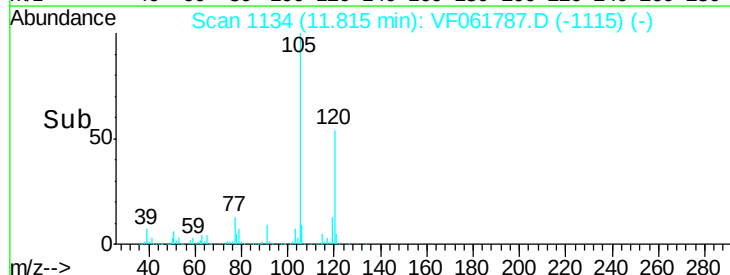
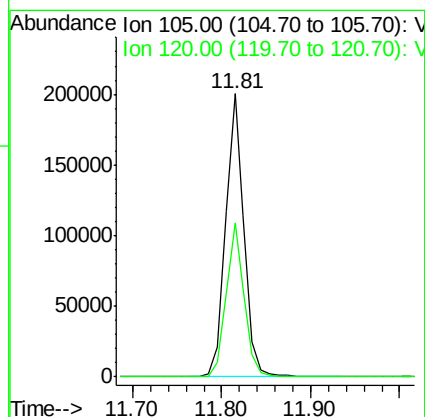
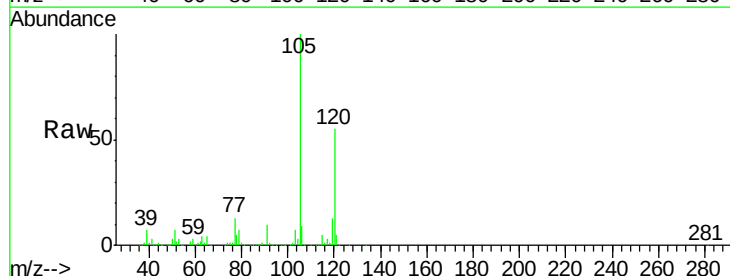
Acq: 28 Feb 2019 15:01

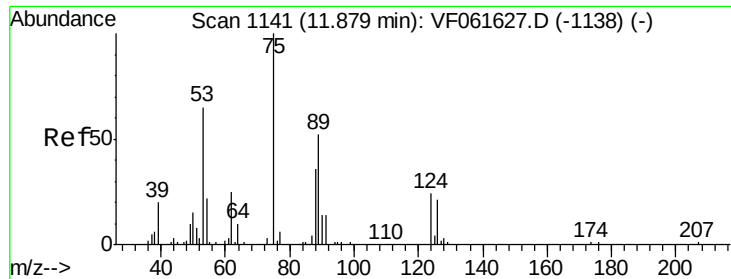
Tgt Ion: 105 Resp: 291347

Ion Ratio Lower Upper

105 100

120 54.5 27.9 83.6





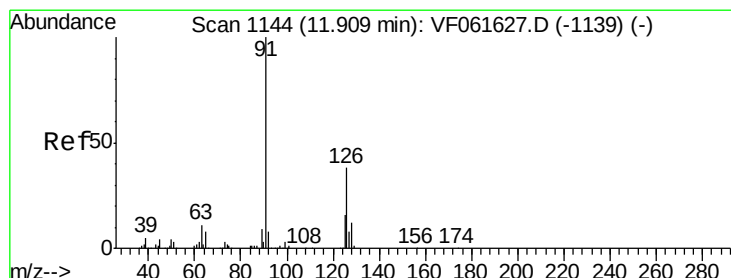
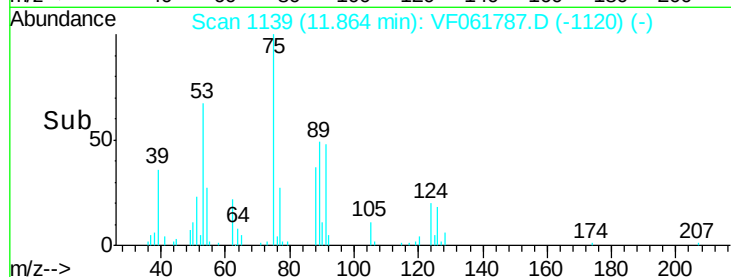
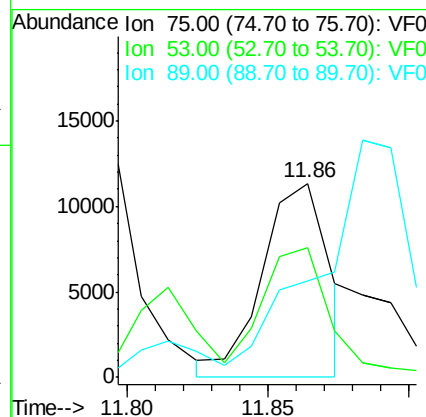
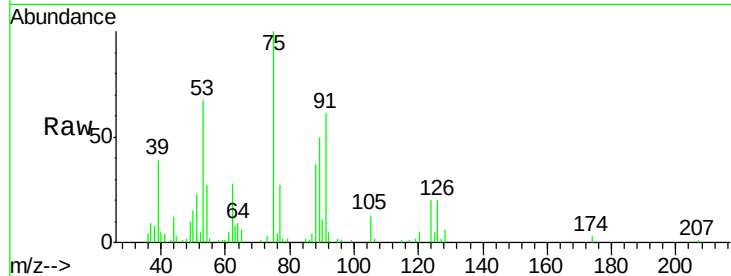
#81
trans-1,4-Dichloro-2-butene
Concen: 19.310 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	66.8	53.7	80.5
89	50.0	41.6	62.4

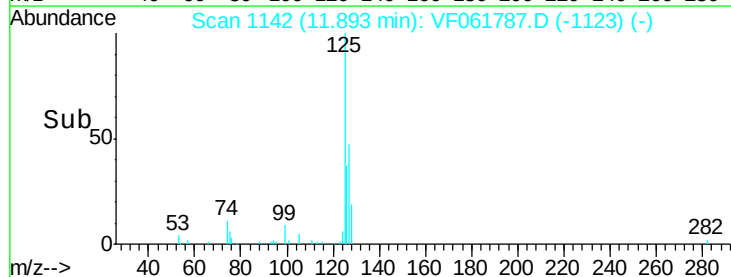
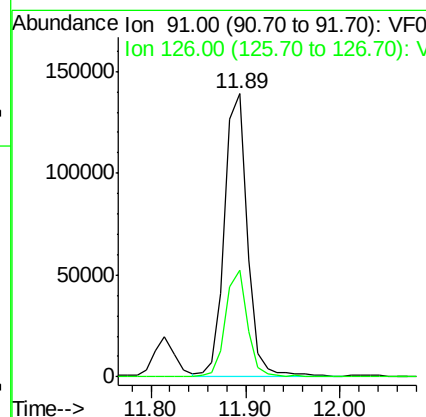
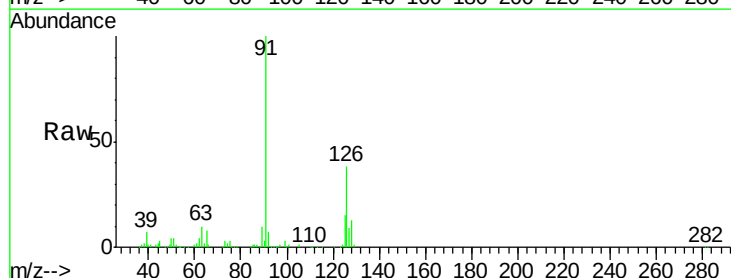
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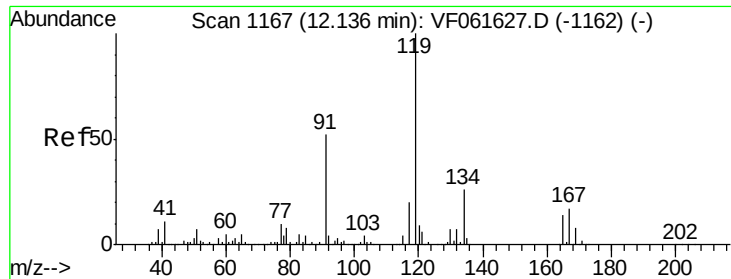
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.877 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.5	19.1	57.1





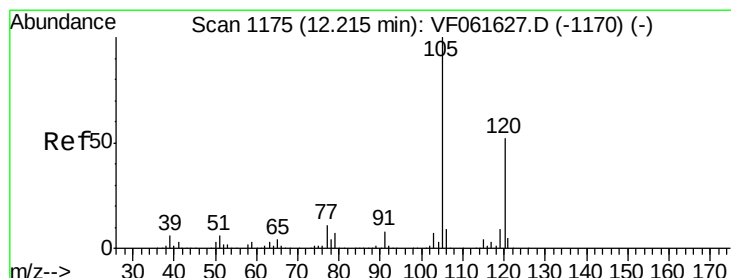
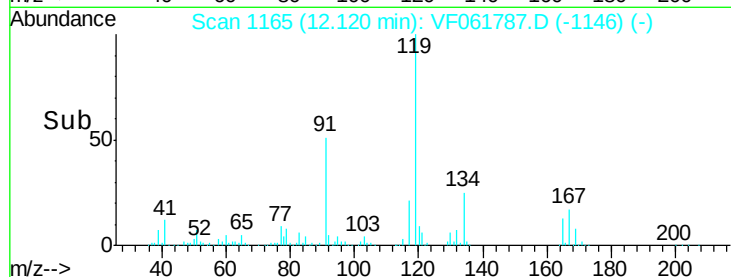
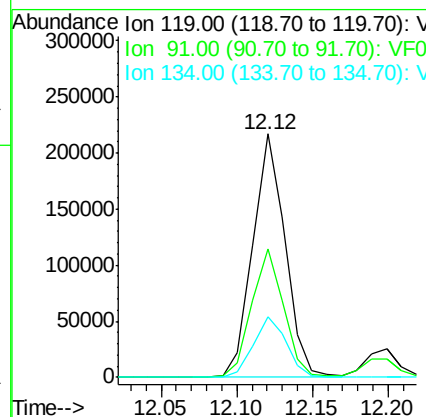
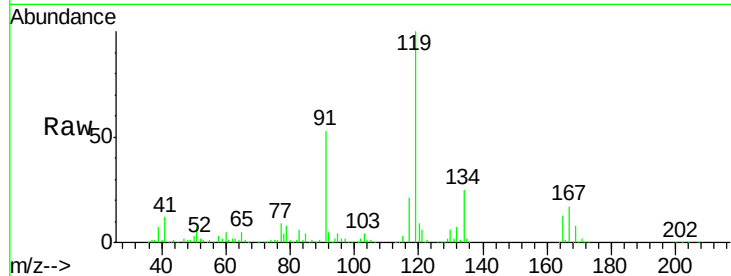
#83
 tert-Butylbenzene
 Concen: 22.106 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	325563		
91	52.6	26.3	78.8	
134	25.0	12.9	38.7	

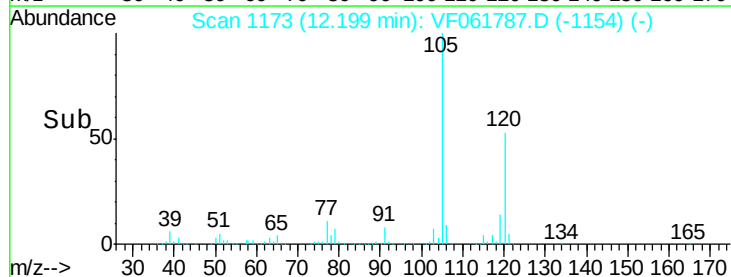
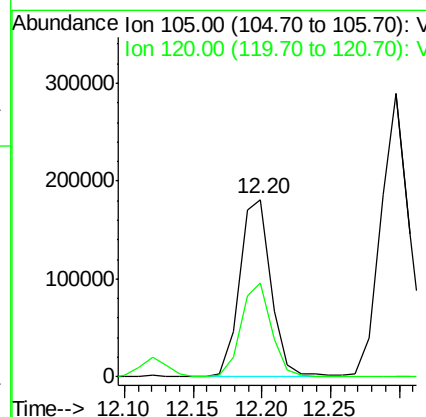
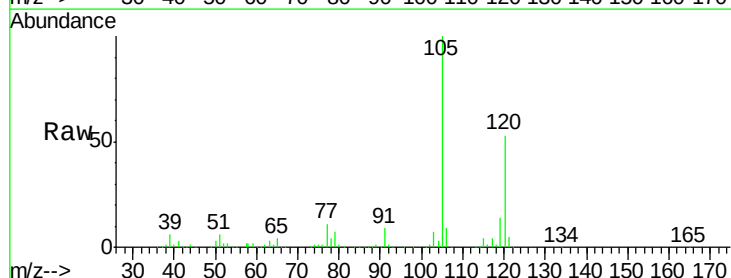
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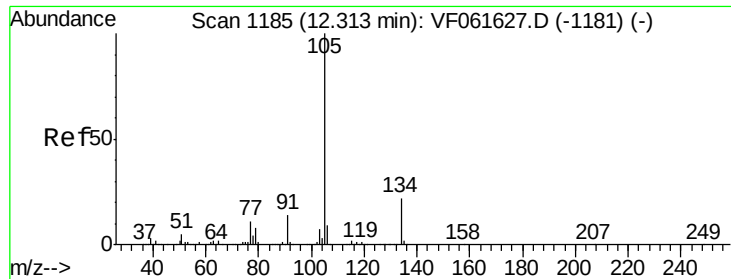
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.872 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	288933		
120	53.2	26.1	78.3	





#85

sec-Butylbenzene

Concen: 21.795 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

Instrument :

MSVOA_F

ClientSampleId :

VF0228SBS01

Tot Ion:105 Resp: 415073

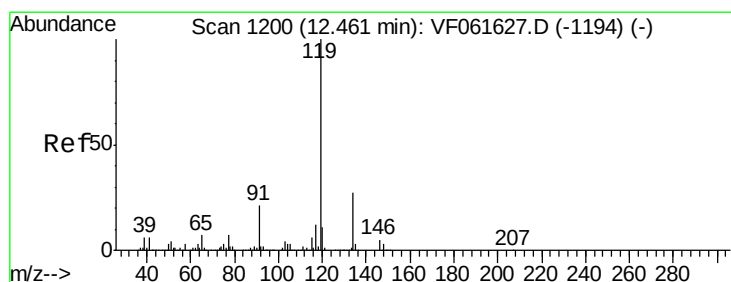
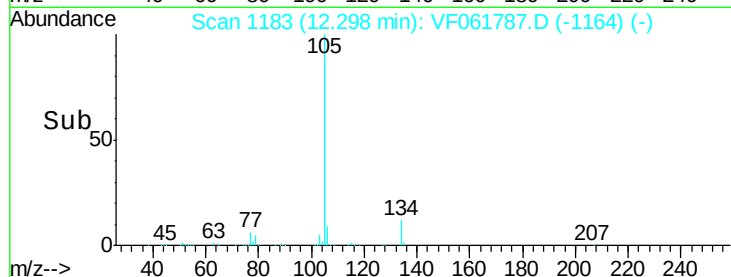
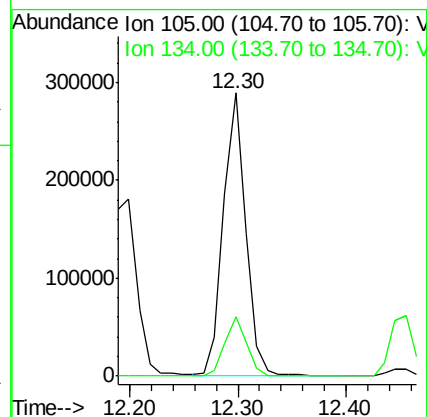
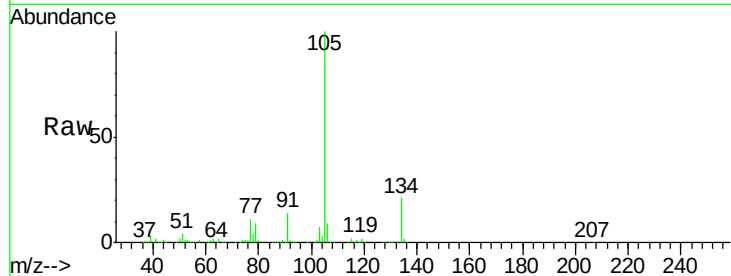
Ion Ratio Lower Upper

105 100

134 21.2 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 22.152 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061787.D

Acq: 28 Feb 2019 15:01

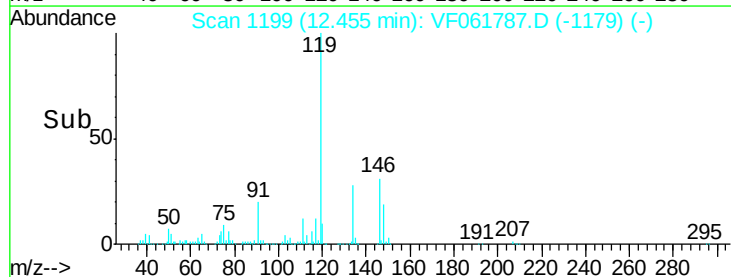
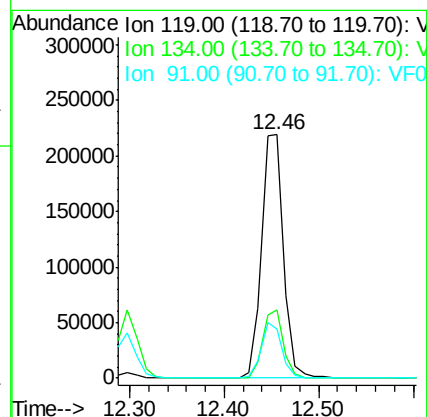
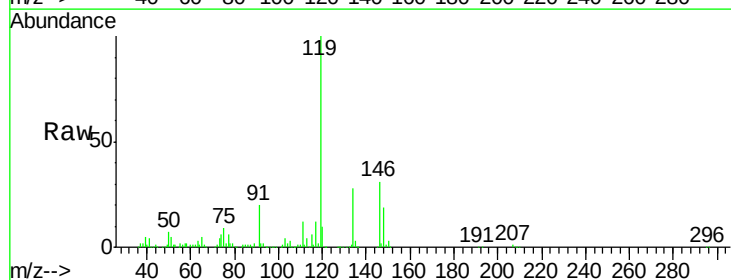
Tgt Ion:119 Resp: 354060

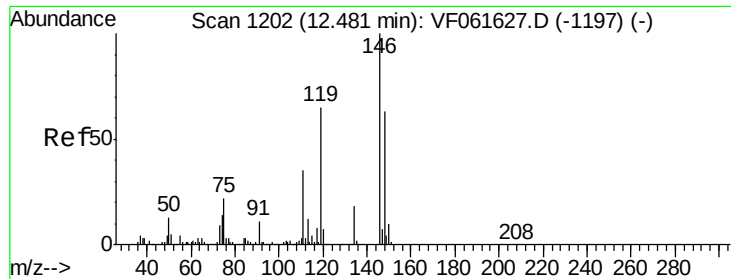
Ion Ratio Lower Upper

119 100

134 28.0 13.7 41.1

91 20.3 10.8 32.4





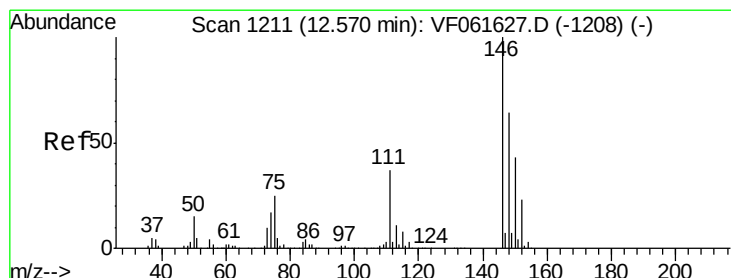
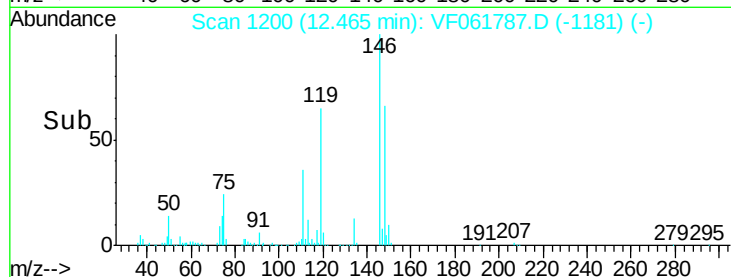
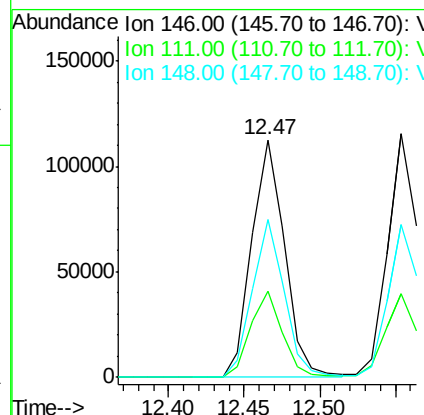
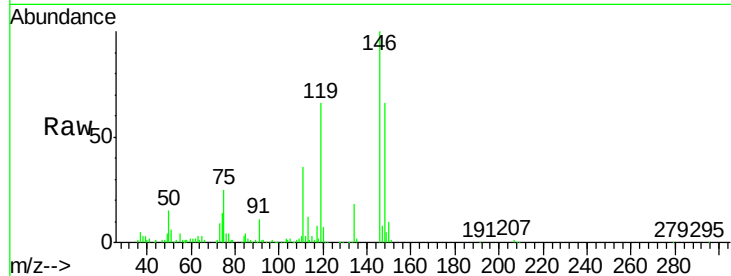
#87
 1,3-Dichlorobenzene
 Concen: 21.458 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	17.5	52.6
148	66.2	31.4	94.3

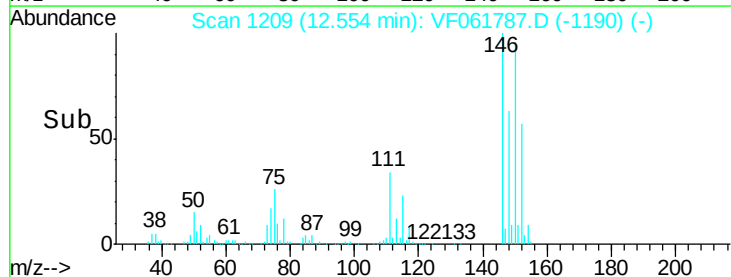
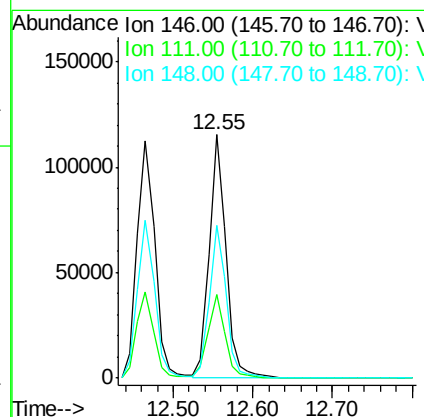
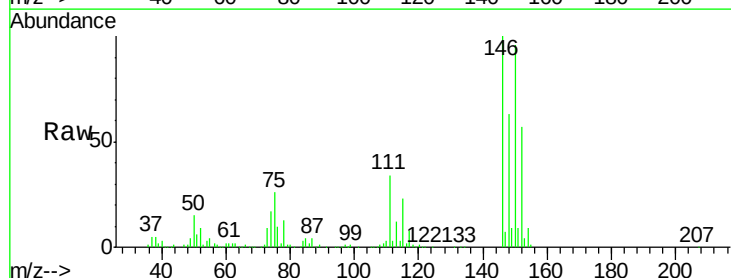
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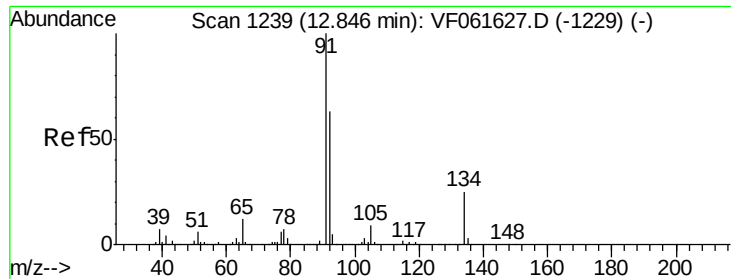
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#88
 1,4-Dichlorobenzene
 Concen: 22.053 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.5	18.4	55.4
148	63.0	32.2	96.6





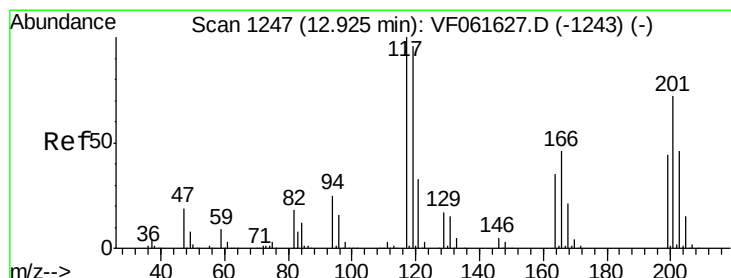
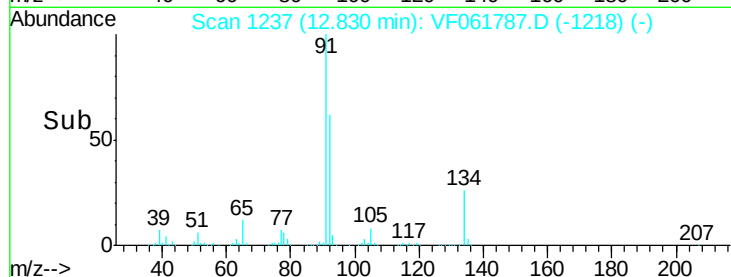
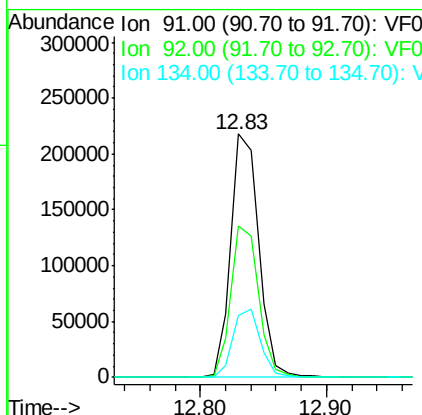
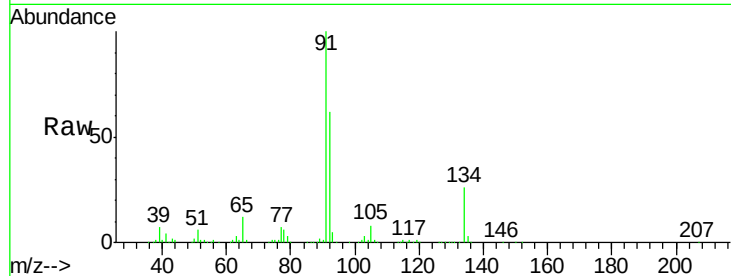
#89
n-Butylbenzene
Concen: 22.102 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.4	31.4	94.3
134	25.7	12.3	36.9

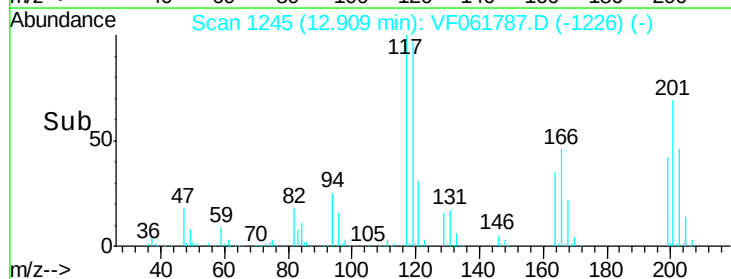
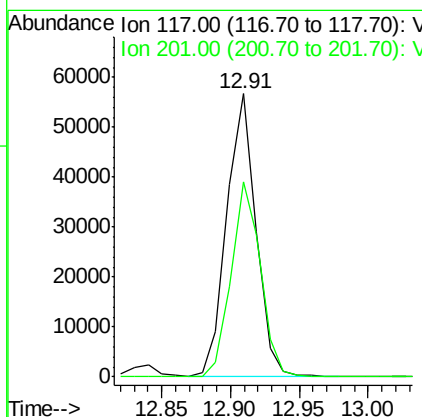
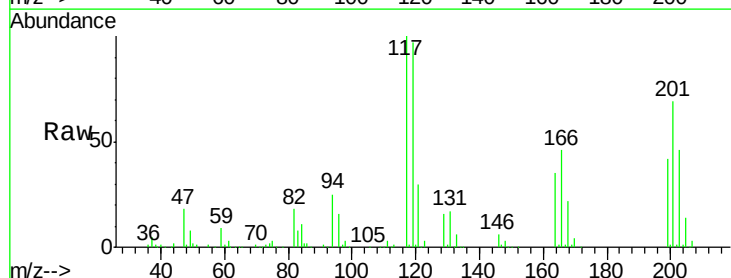
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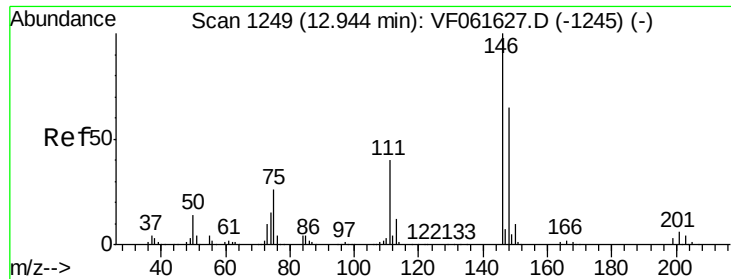
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#90
Hexachloroethane
Concen: 22.671 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.0	36.2	108.6





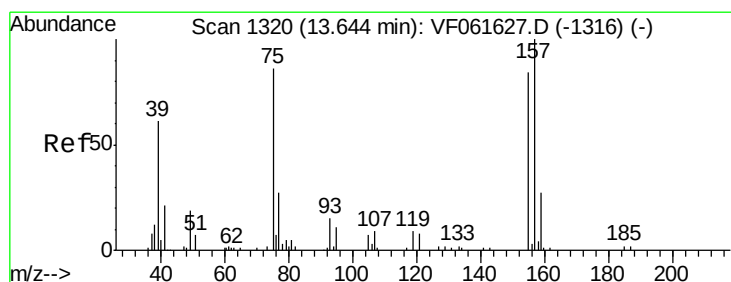
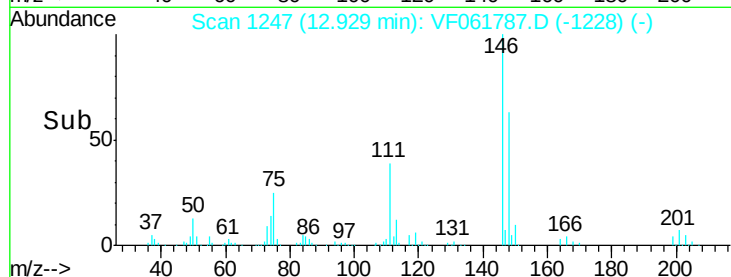
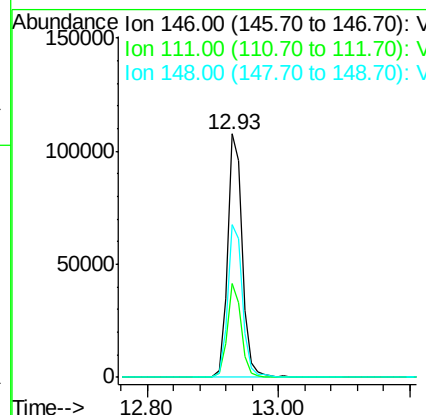
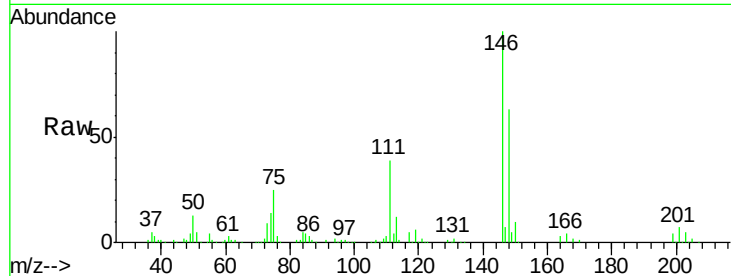
#91
 1,2-Dichlorobenzene
 Concen: 22.138 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	168713		
111	38.7	20.2	60.5	
148	62.7	32.3	96.9	

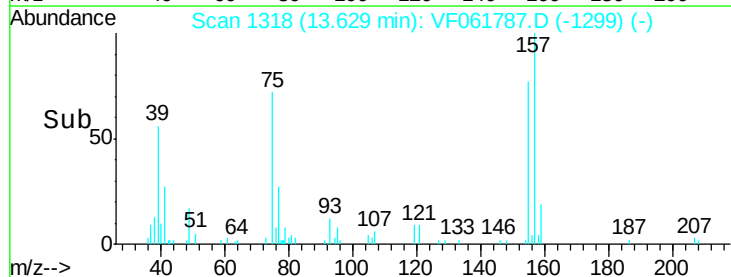
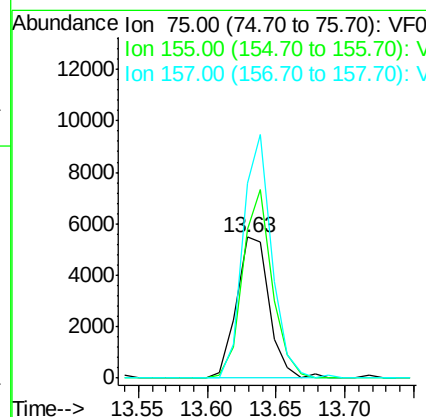
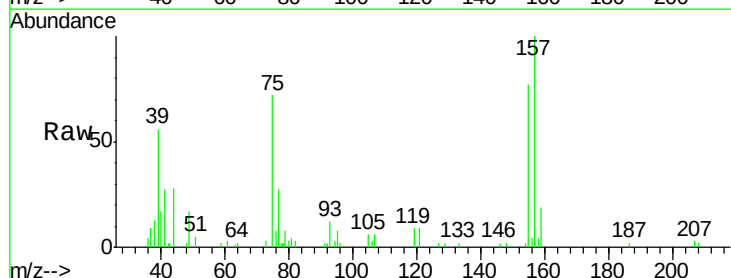
Manual Integrations
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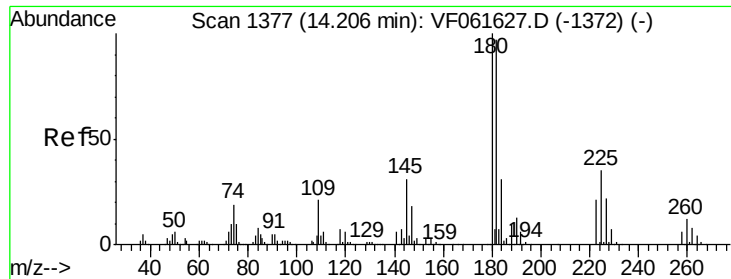
MMDadoda
 3/2/2019 4:09:38 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.261 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9102		
155	106.0	48.9	146.8	
157	138.3	58.3	174.8	





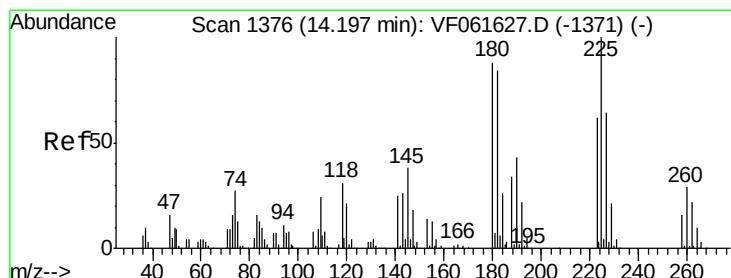
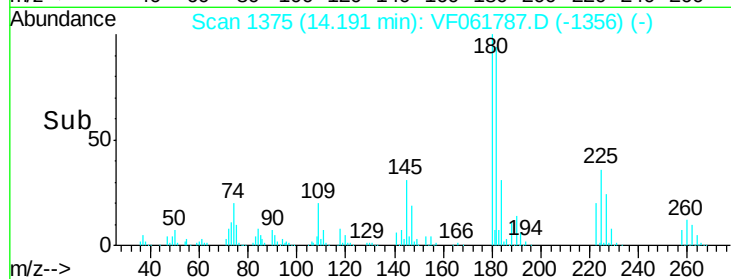
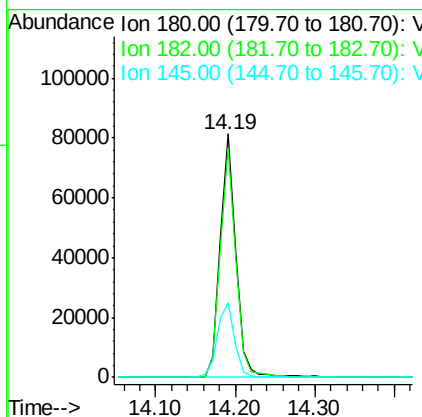
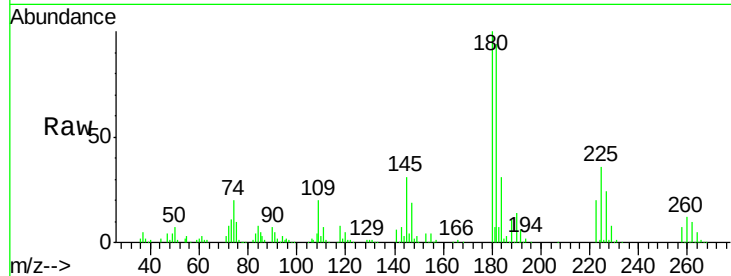
#93
 1,2,4-Trichlorobenzene
 Concen: 21.089 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115203		
182	94.3	48.6	145.9	
145	30.7	15.3	45.9	

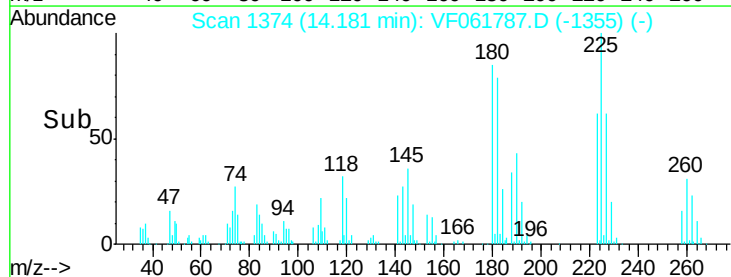
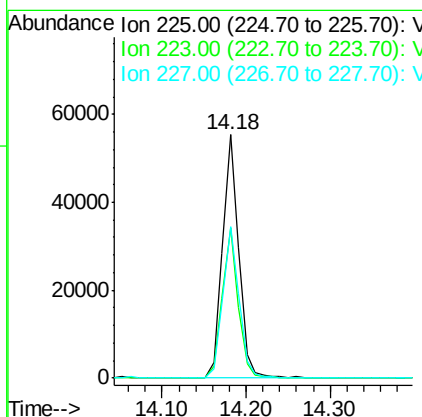
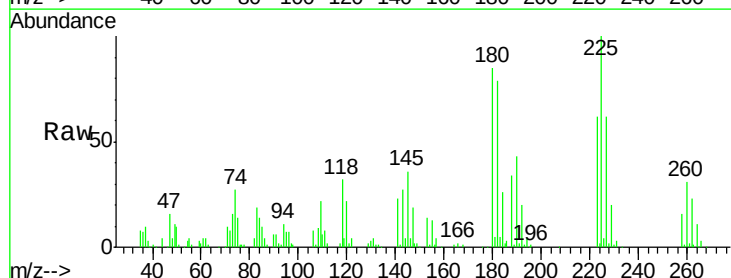
Manual Integrations
 APPROVED

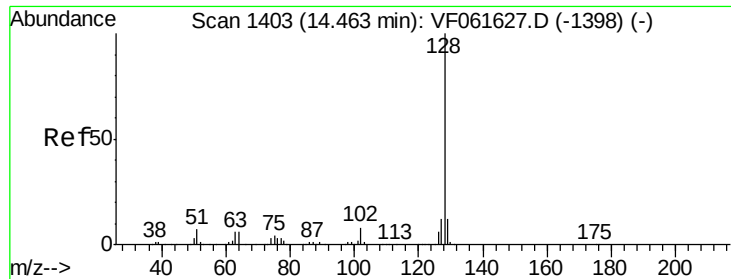
MMDadoda
 3/2/2019 4:09:38 AM



#94
 Hexachlorobutadiene
 Concen: 22.108 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061787.D
 Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	74584		
223	61.6	30.9	92.7	
227	62.3	32.1	96.3	





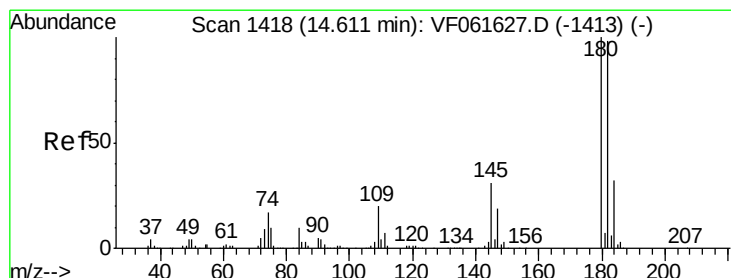
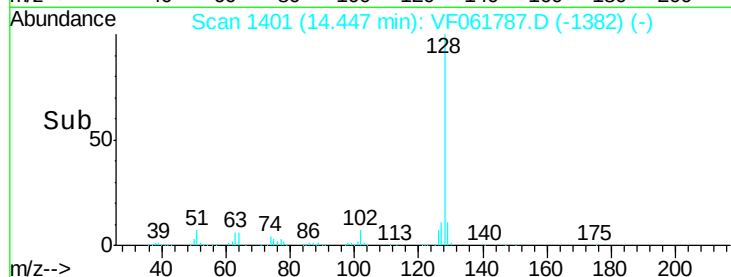
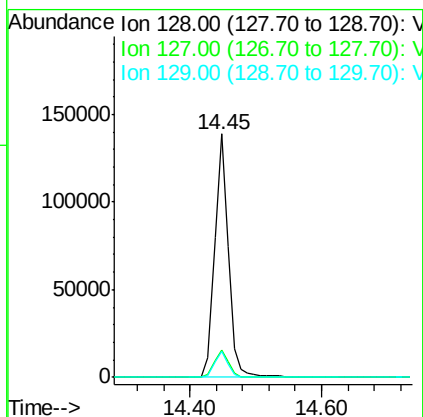
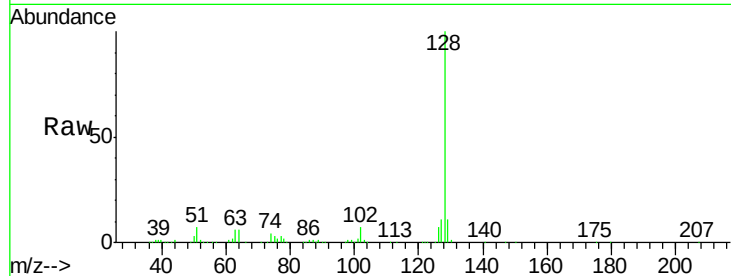
#95
Naphthalene
Concen: 20.919 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Instrument :
MSVOA_F
ClientSampleId :
VF0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	199938		
127	11.2	9.8	14.6	
129	10.6	9.4	14.2	

Manual Integrations
APPROVED

MMDadoda
3/2/2019 4:09:38 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.699 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061787.D
Acq: 28 Feb 2019 15:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	108793		
182	91.5	49.0	147.2	
145	29.5	15.4	46.1	

