

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031219\
 Data File : VF061906.D
 Acq On : 12 Mar 2019 15:43
 Operator : VA/AP
 Sample : VF0312SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 4:41:29 PM

Quant Time: Mar 13 02:24:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	305492	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	450783	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	390695	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	213015	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	123984	55.73	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	111.46%	
35) Dibromofluoromethane	4.09	113	170647	54.24	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	108.48%	
50) Toluene-d8	7.54	98	492551	52.68	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.36%	
62) 4-Bromofluorobenzene	11.40	95	203090	55.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	110.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	83357	22.225	ug/l	86
3) Chloromethane	1.10	50	78890	21.704	ug/l	90
4) Vinyl Chloride	1.14	62	77164	22.363	ug/l	98
5) Bromomethane	1.31	94	52531	22.339	ug/l	97
6) Chloroethane	1.37	64	38615	23.543	ug/l #	84
7) Trichlorofluoromethane	1.47	101	100224	23.782	ug/l	98
8) Diethyl Ether	1.63	74	19060	19.889	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	65480	22.881	ug/l #	91
10) Methyl Iodide	1.89	142	121126m	22.241	ug/l	
11) Tert butyl alcohol	2.56	59	13465	106.633	ug/l	99
12) 1,1-Dichloroethene	1.78	96	58528	22.401	ug/l	92
13) Acrolein	1.99	56	14658	91.611	ug/l	89
14) Allyl chloride	2.08	41	84107	29.221	ug/l	92
15) Acrylonitrile	2.93	53	43715	108.720	ug/l	98
16) Acetone	2.23	43	58380	125.274	ug/l	93
17) Carbon Disulfide	1.82	76	178655	21.967	ug/l	98
18) Methyl Acetate	2.34	43	23742	25.749	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	99892	22.601	ug/l	97
20) Methylene Chloride	2.17	84	58080m	19.192	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	63623	25.874	ug/l	88
22) Diisopropyl ether	2.79	45	173076	23.116	ug/l	99
23) Vinyl Acetate	3.18	43	351996	105.236	ug/l	99
24) 1,1-Dichloroethane	2.86	63	103734	23.180	ug/l	100
25) 2-Butanone	4.32	43	104400	110.136	ug/l	100
26) 2,2-Dichloropropane	3.58	77	52202	26.130	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	78569	23.063	ug/l	99
28) Bromochloromethane	3.70	49	38937	19.960	ug/l #	85
29) Tetrahydrofuran	4.06	42	41205	100.793	ug/l	98
30) Chloroform	3.85	83	115742	22.643	ug/l	95
31) Cyclohexane	3.68	56	108501	23.148	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	81090	25.737	ug/l #	88
36) 1,1-Dichloropropene	4.26	75	92834	21.801	ug/l	92
37) Ethyl Acetate	4.10	43	36352	20.339	ug/l #	82
38) Carbon Tetrachloride	3.98	117	77198	25.610	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	110812	22.032	ug/l	97
40) Benzene	4.62	78	249293	22.398	ug/l	98
41) Methacrylonitrile	4.74	41	17712	18.088	ug/l #	94
42) 1,2-Dichloroethane	4.92	62	61940	22.330	ug/l	99
43) Isopropyl Acetate	6.94	43	43777	19.870	ug/l	100
44) Trichloroethene	5.48	130	73840	21.348	ug/l	97
45) 1,2-Dichloropropane	6.21	63	58027	21.924	ug/l	97
46) Dibromomethane	6.07	93	35283	21.182	ug/l	97
47) Bromodichloromethane	6.37	83	79011	21.470	ug/l	91
48) Methyl methacrylate	6.71	41	28138	20.181	ug/l	94
49) 1,4-Dioxane	6.69	88	4568	358.386	ug/l	91
51) 4-Methyl-2-Pentanone	8.25	43	164663	108.141	ug/l	94
52) Toluene	7.60	92	148434	22.543	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	66760	21.977	ug/l	92
54) cis-1,3-Dichloropropene	7.29	75	86507	20.646	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	41936	22.105	ug/l	97
56) Ethyl methacrylate	8.61	69	44564	20.843	ug/l #	86
57) 1,3-Dichloropropane	8.84	76	66789	21.527	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.28	63	36598	108.207	ug/l	95
59) 2-Hexanone	9.48	43	122656	111.660	ug/l	96
60) Dibromochloromethane	8.70	129	58773	21.736	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44237	21.204	ug/l	100
64) Tetrachloroethene	8.14	164	65991	21.982	ug/l	97
65) Chlorobenzene	9.78	112	166337	22.160	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	68674	23.614	ug/l	97
67) Ethyl Benzene	9.88	91	292505	23.511	ug/l	97
68) m/p-Xylenes	10.12	106	216713	45.470	ug/l	99
69) o-Xylene	10.70	106	116804	22.760	ug/l	93
70) Styrene	10.78	104	162962	22.563	ug/l	99
71) Bromoform	10.76	173	32108	20.890	ug/l #	95
73) Isopropylbenzene	11.12	105	329486	22.468	ug/l	99
74) N-amyl acetate	11.36	43	70076	20.757	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	53016	21.751	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	37826	22.739	ug/l	99
77) Bromobenzene	11.48	156	76598	21.703	ug/l	97
78) n-propylbenzene	11.58	91	383072	23.131	ug/l	97
79) 2-Chlorotoluene	11.71	91	222114	23.459	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	280406	23.815	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	16224m	21.329	ug/l	
82) 4-Chlorotoluene	11.88	91	220185	22.736	ug/l	100
83) tert-Butylbenzene	12.12	119	289488	23.155	ug/l	94
84) 1,2,4-Trimethylbenzene	12.19	105	262603	22.751	ug/l	95
85) sec-Butylbenzene	12.30	105	382758	23.526	ug/l	98
86) p-Isopropyltoluene	12.45	119	320766	23.194	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	151912	22.668	ug/l	100
88) 1,4-Dichlorobenzene	12.56	146	144897	22.414	ug/l	97
89) n-Butylbenzene	12.83	91	310322	23.480	ug/l	93
90) Hexachloroethane	12.91	117	72820	21.876	ug/l	73
91) 1,2-Dichlorobenzene	12.93	146	143707	22.633	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8129	21.527	ug/l	73

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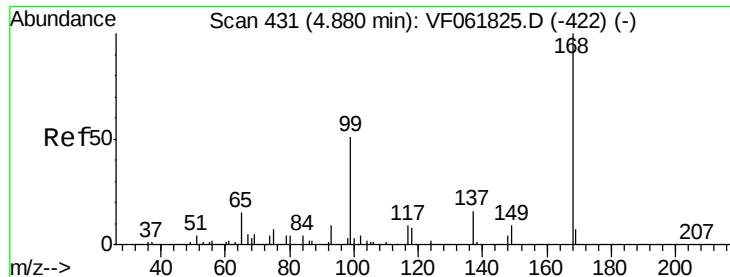
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	95775	21.516	ug/l	97
94) Hexachlorobutadiene	14.18	225	64531	20.941	ug/l	98
95) Naphthalene	14.45	128	154232	19.454	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	90055	21.911	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 168 Resp: 305492

Ion Ratio Lower Upper

168 100

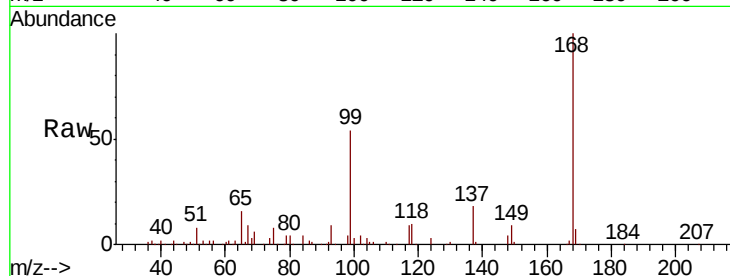
99 53.8 40.8 61.2

Manual Integrations

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3/13/2019 4:41:29 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

100000

80000

60000

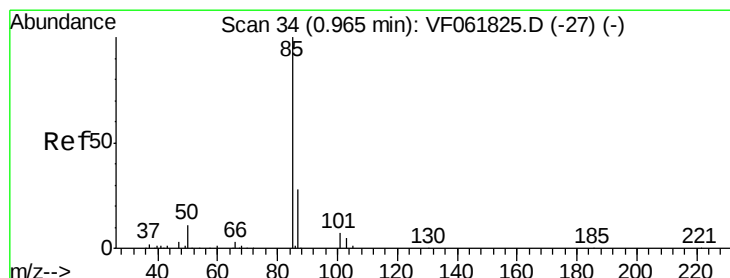
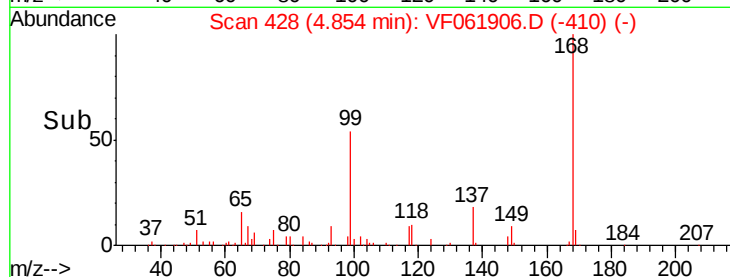
40000

20000

0

4.80 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 22.225 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061906.D

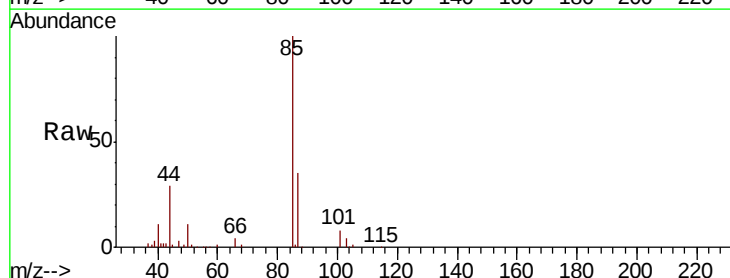
Acq: 12 Mar 2019 15:43

Tgt Ion: 85 Resp: 83357

Ion Ratio Lower Upper

85 100

87 35.3 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

15000

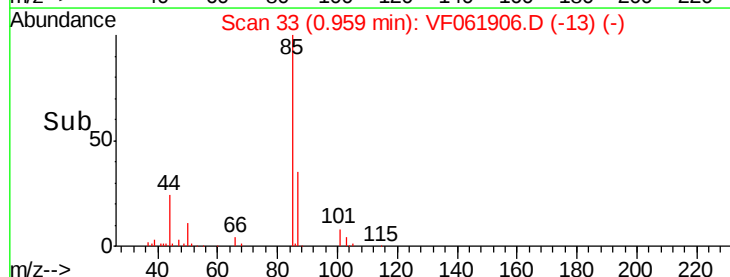
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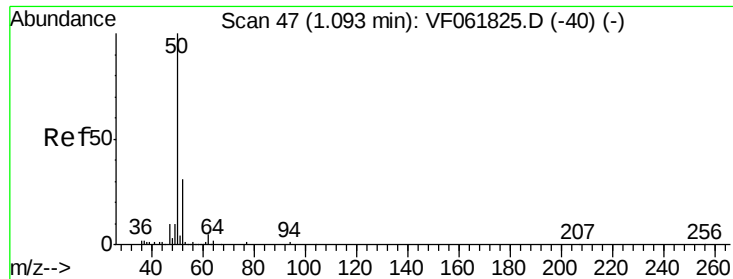
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 21.704 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 50 Resp: 78890

Ion Ratio Lower Upper

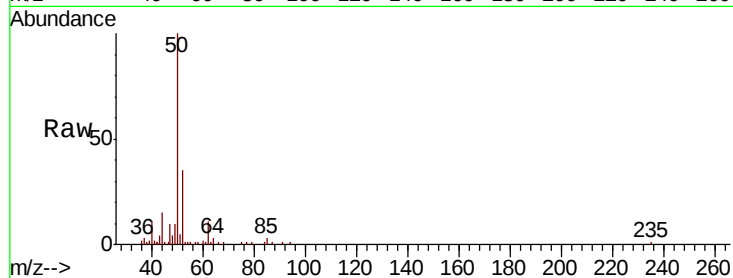
50 100

52 35.3 23.8 35.8

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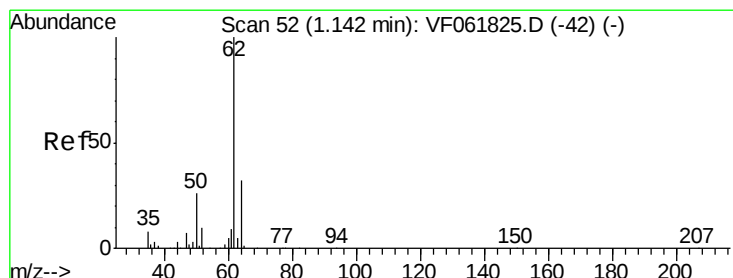
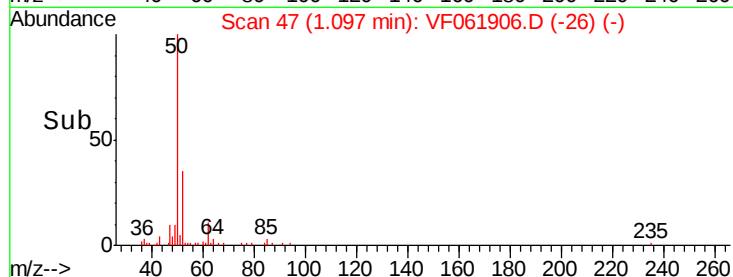
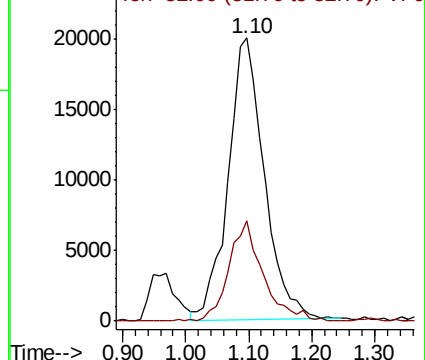
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 22.363 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061906.D

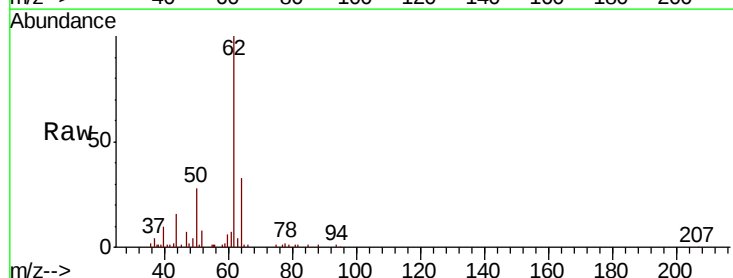
Acq: 12 Mar 2019 15:43

Tgt Ion: 62 Resp: 77164

Ion Ratio Lower Upper

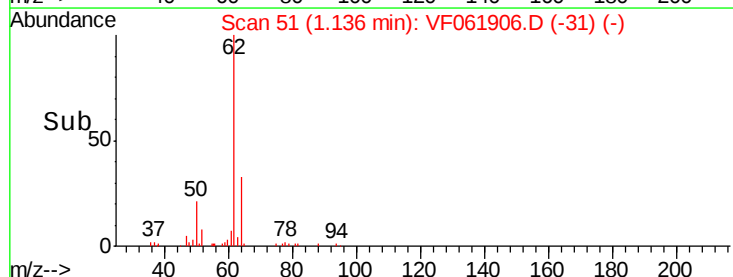
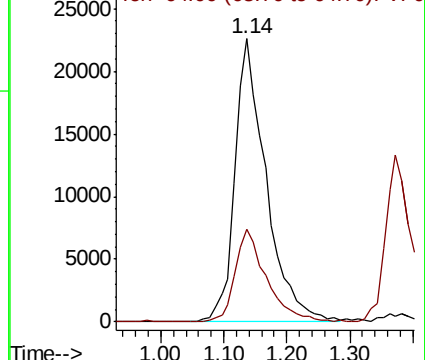
62 100

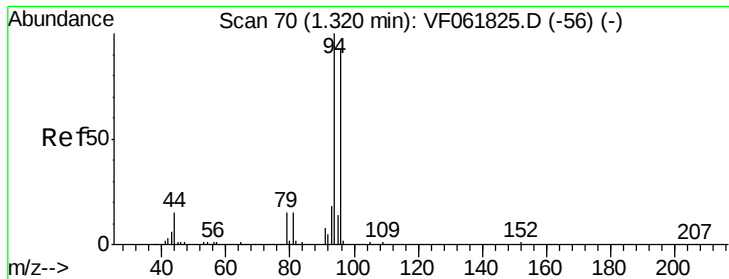
64 32.8 25.2 37.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 22.339 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 94 Resp: 52531

Ion Ratio Lower Upper

94 100

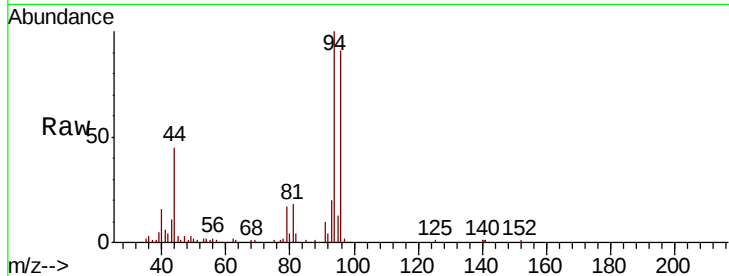
96 90.7 75.2 112.8

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

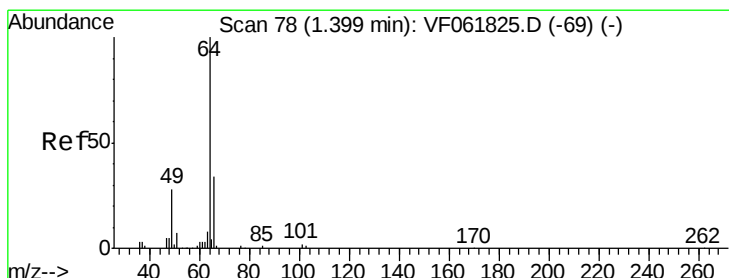
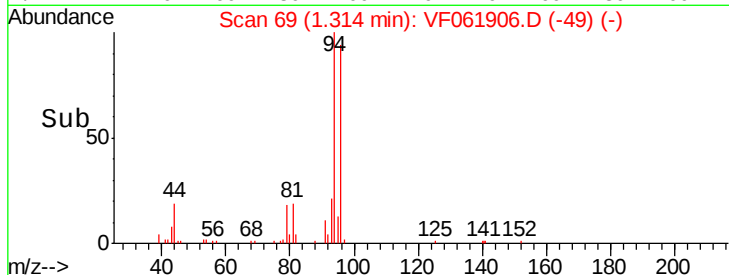
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 23.543 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.03 min

Lab File: VF061906.D

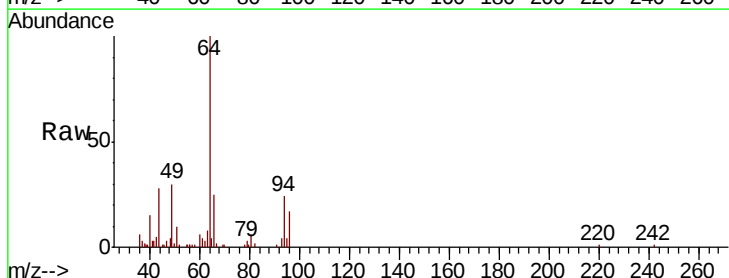
Acq: 12 Mar 2019 15:43

Tgt Ion: 64 Resp: 38615

Ion Ratio Lower Upper

64 100

66 24.5 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

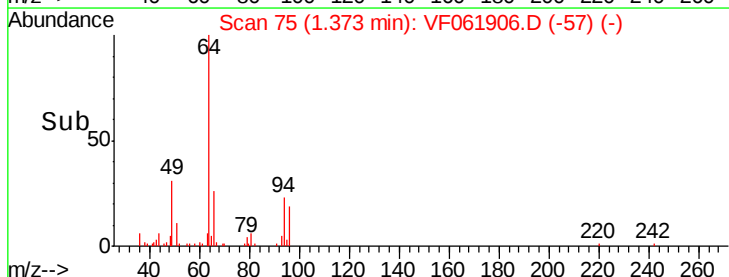
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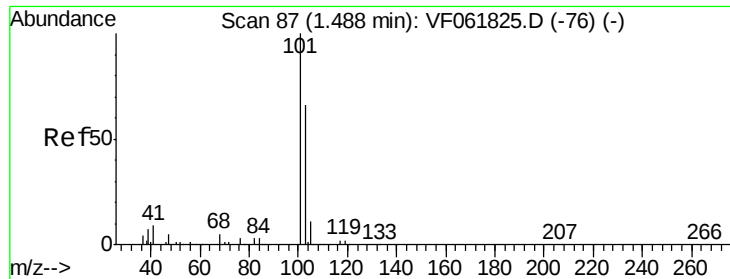
10000

5000

0

Time-->





#7

Trichlorofluoromethane

Concen: 23.782 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

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ClientSampleId :

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Tgt Ion:101 Resp: 100224

Ion Ratio Lower Upper

101 100

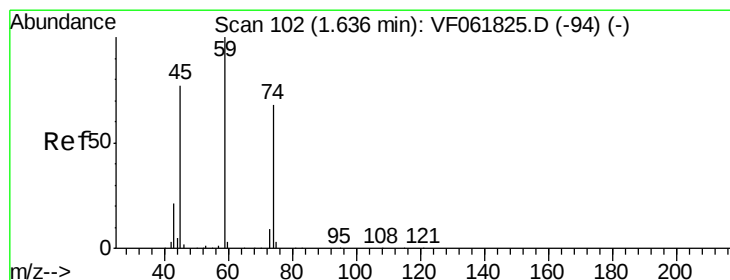
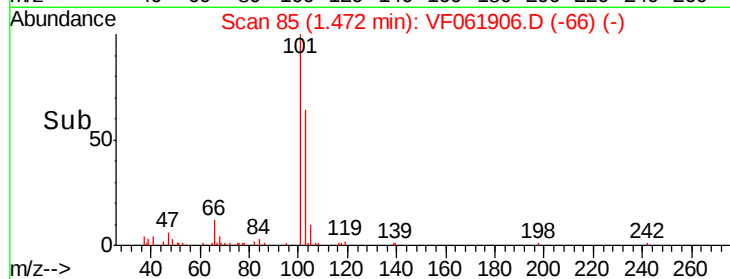
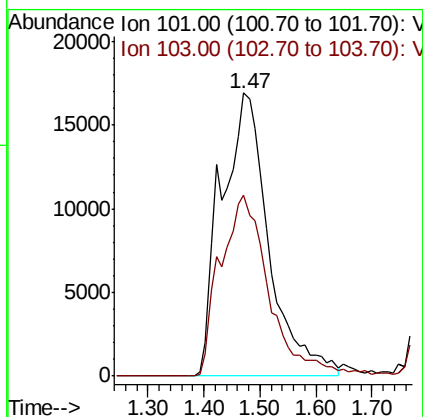
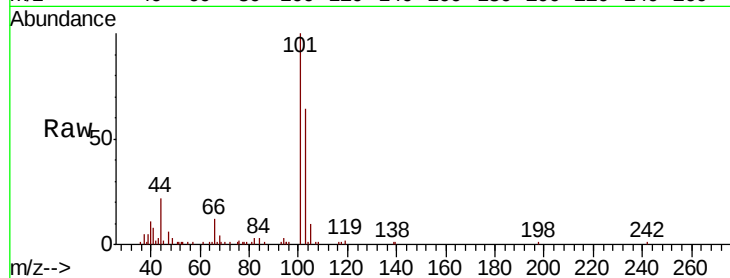
103 64.1 52.8 79.2

Manual Integrations

APPROVED

MMDadoda

3/13/2019 4:41:29 PM



#8

Diethyl Ether

Concen: 19.889 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061906.D

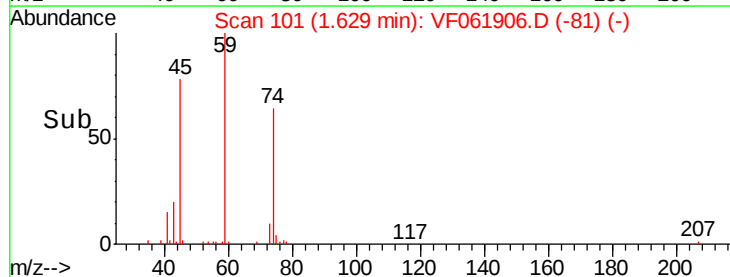
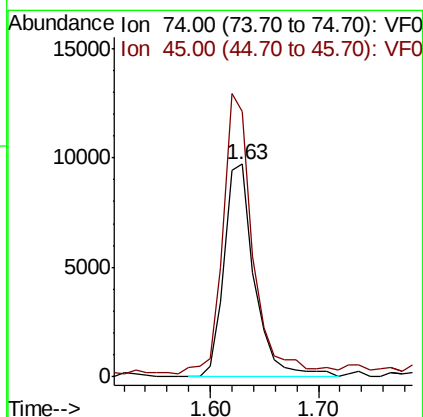
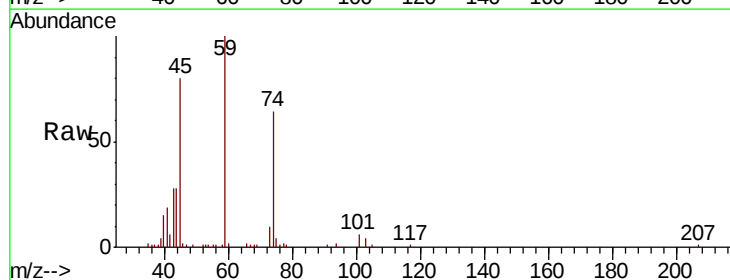
Acq: 12 Mar 2019 15:43

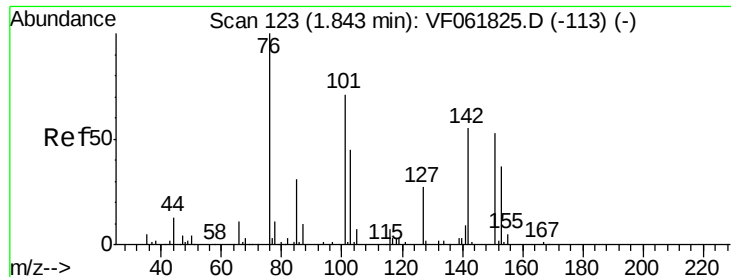
Tgt Ion: 74 Resp: 19060

Ion Ratio Lower Upper

74 100

45 125.0 57.2 171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.881 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

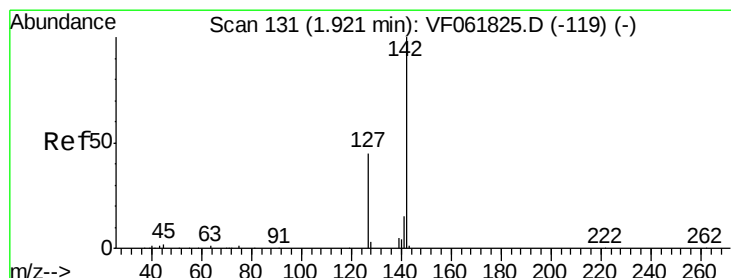
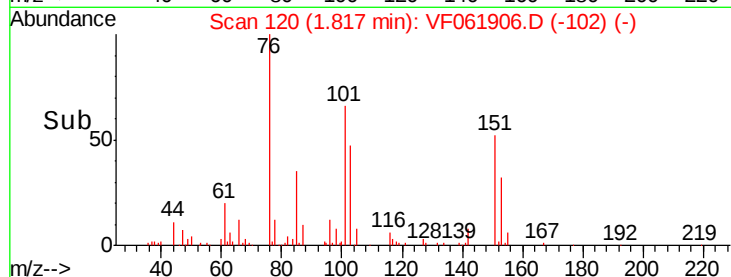
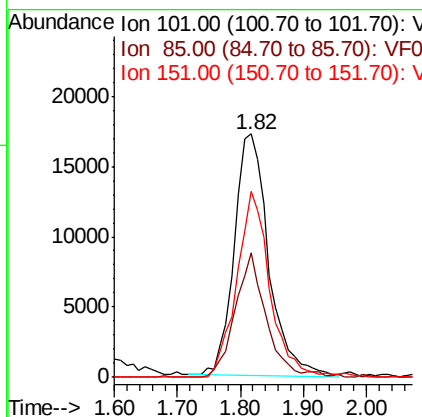
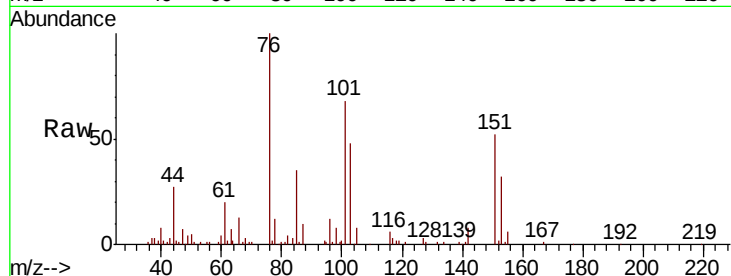
ClientSampleId :

VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	65480		
85	51.3	34.0	51.0#	
151	76.1	57.3	85.9	

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#10

Methyl Iodide

Concen: 22.241 ug/l m

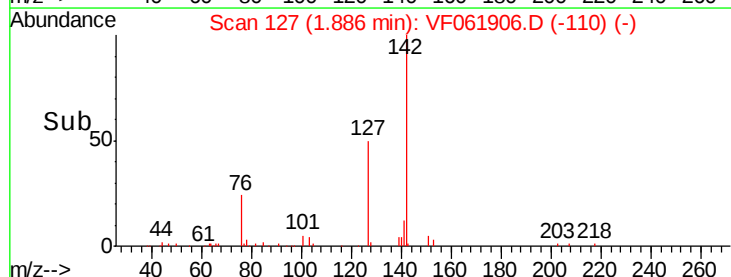
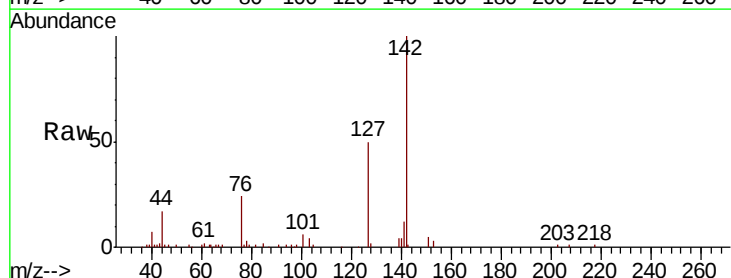
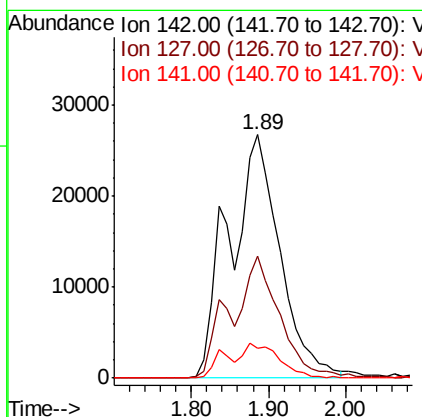
RT: 1.89 min Scan# 127

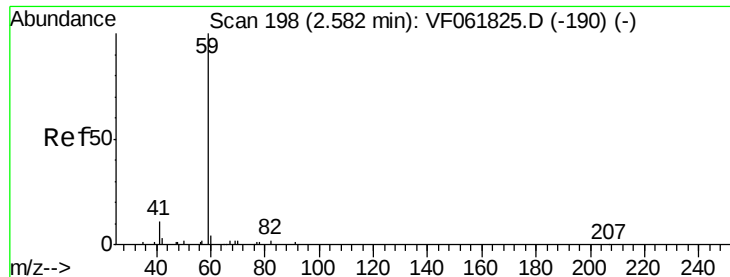
Delta R.T. -0.04 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	121126		
127	50.1	35.8	53.6	
141	12.3	11.7	17.5	





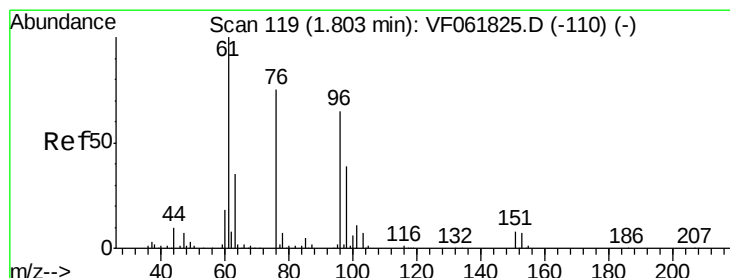
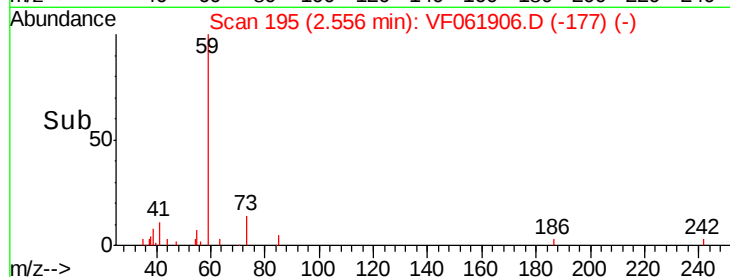
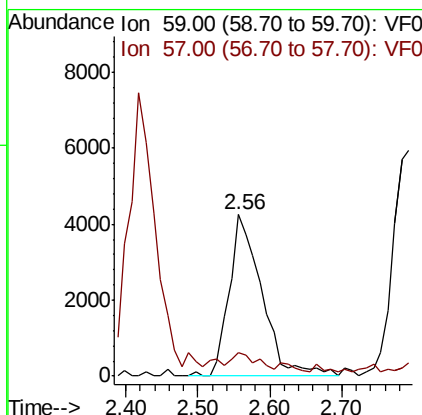
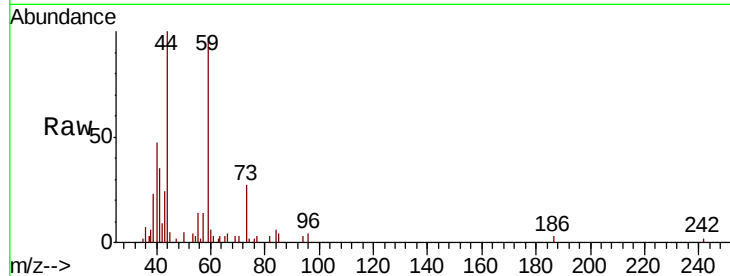
#11
Tert butyl alcohol
Concen: 106.633 ug/l
RT: 2.56 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 59 Resp: 13465
Ion Ratio Lower Upper
59 100
57 14.3 11.8 17.6

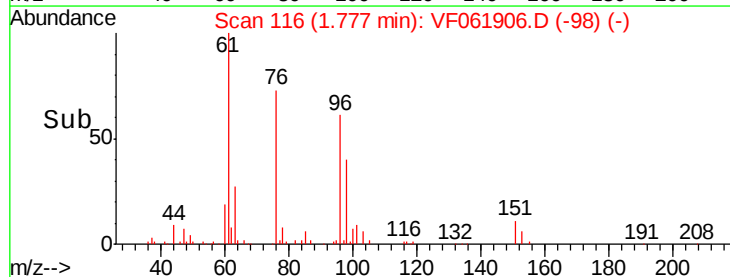
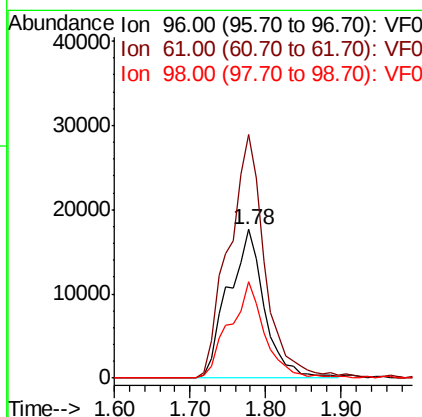
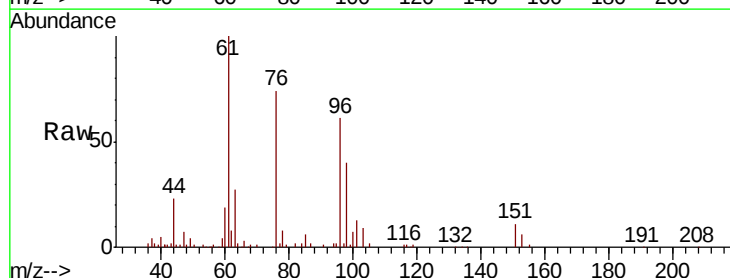
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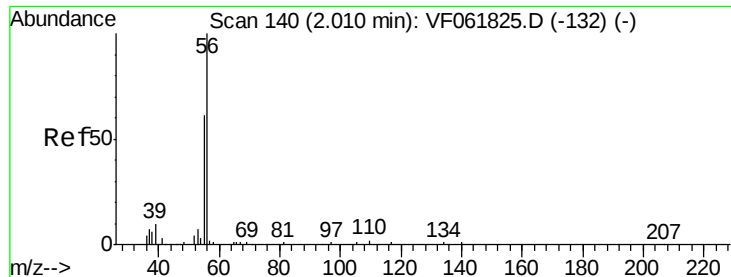
MMDadoda
3/13/2019 4:41:29 PM



#12
1,1-Dichloroethene
Concen: 22.401 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 96 Resp: 58528
Ion Ratio Lower Upper
96 100
61 163.9 122.5 183.7
98 64.9 47.1 70.7





#13

Acrolein

Concen: 91.611 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 56 Resp: 14658

Ion Ratio Lower Upper

56 100

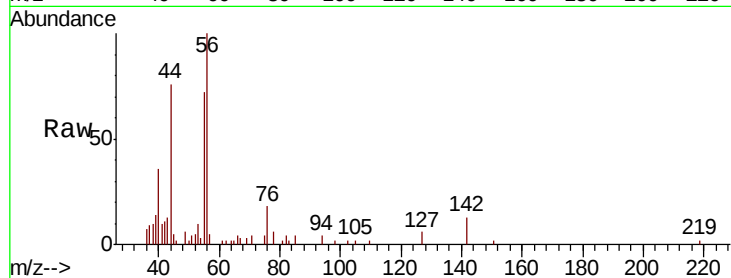
55 72.4 51.3 76.9

Manual Integrations

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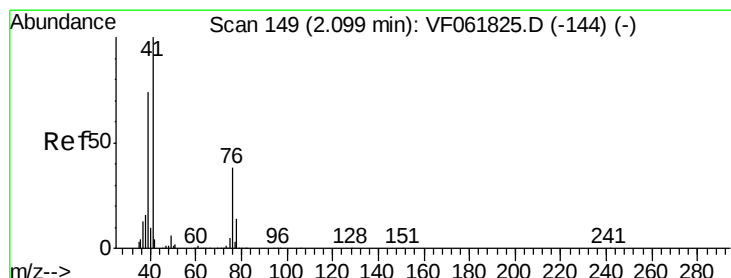
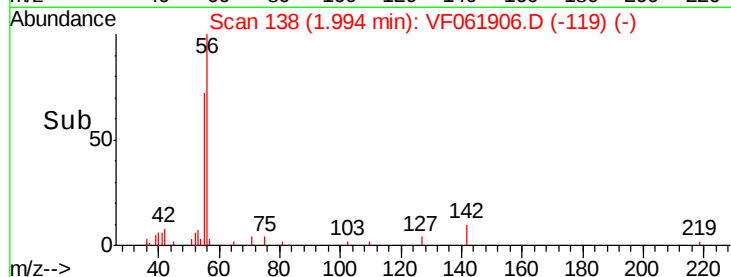
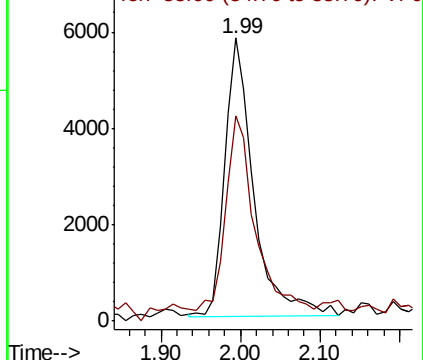
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 29.221 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

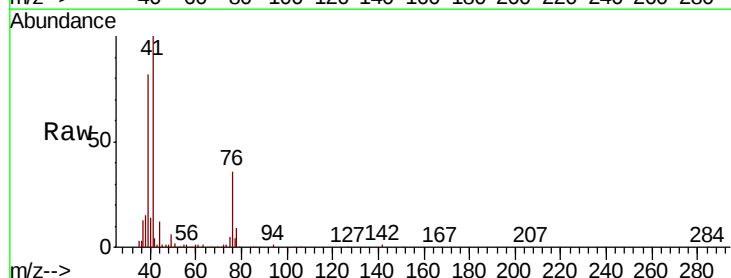
Tgt Ion: 41 Resp: 84107

Ion Ratio Lower Upper

41 100

39 81.6 59.6 89.4

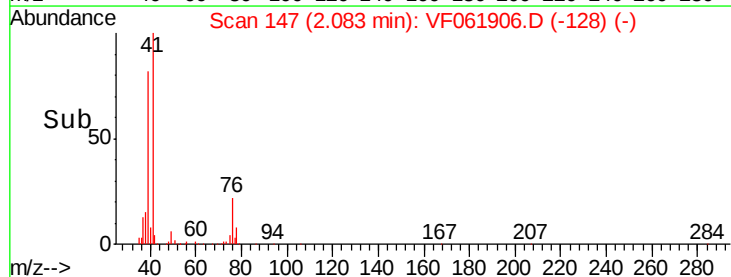
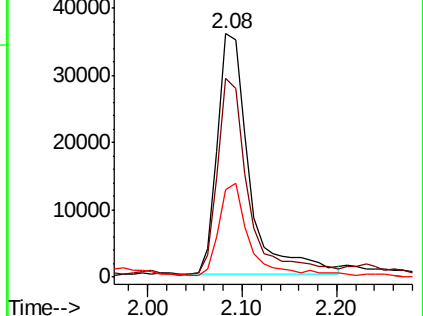
76 35.7 32.3 48.5

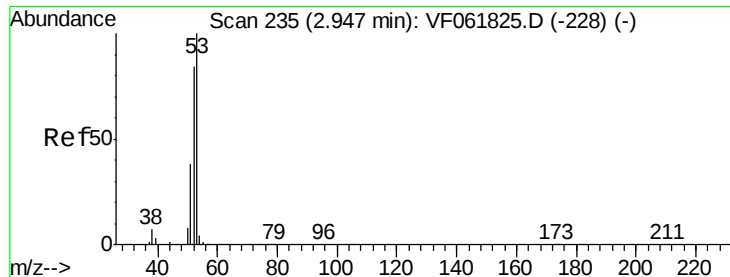


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 108.720 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

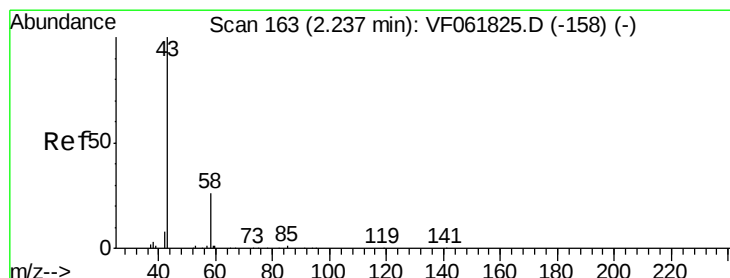
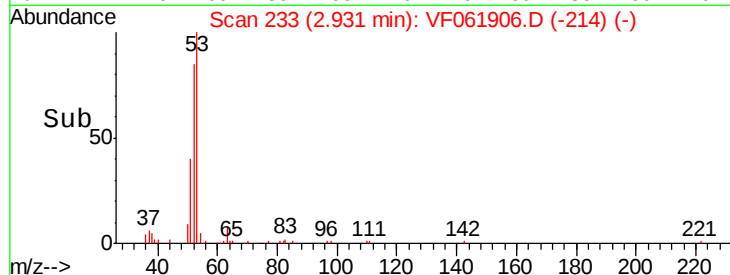
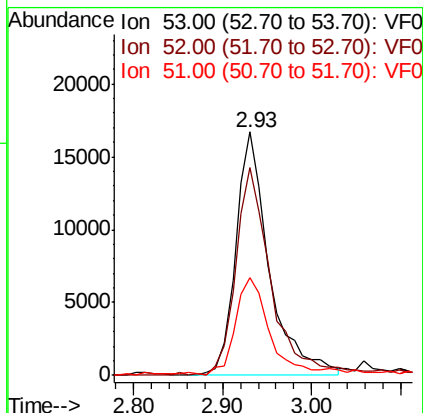
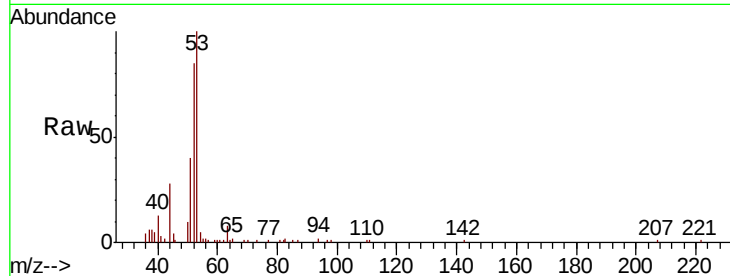
ClientSampleId :

VF0312SBS01

Tgt Ion:	53	Resp:	43715
Ion	Ratio	Lower	Upper
53	100		
52	85.4	67.4	101.0
51	40.2	30.7	46.1

Manual Integrations
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#16

Acetone

Concen: 125.274 ug/l

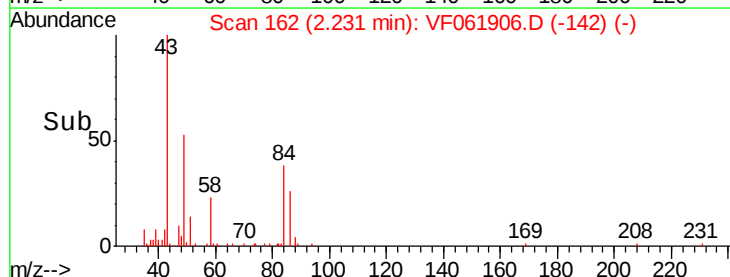
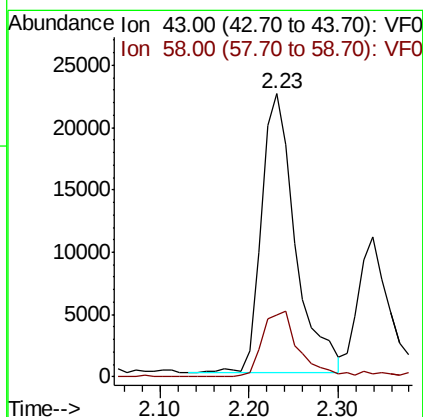
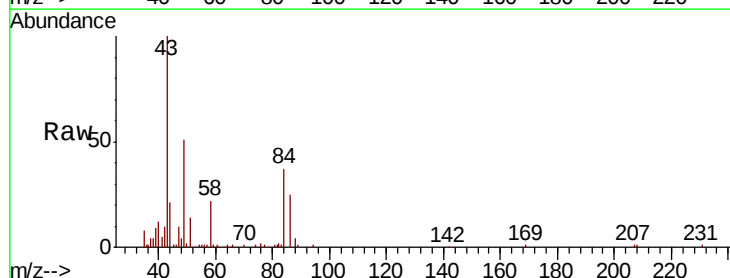
RT: 2.23 min Scan# 162

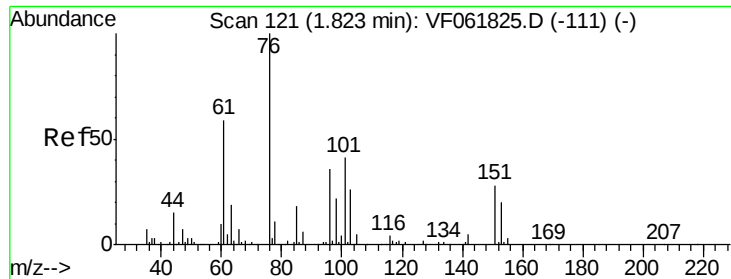
Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	43	Resp:	58380
Ion	Ratio	Lower	Upper
43	100		
58	22.0	20.3	30.5





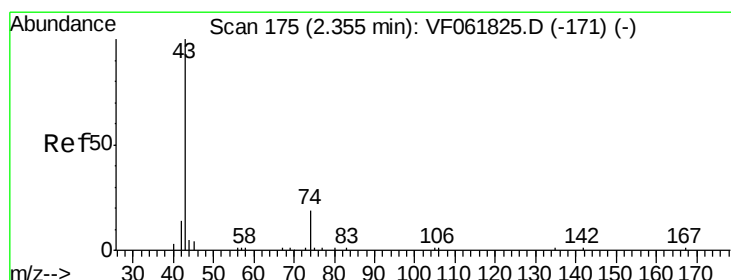
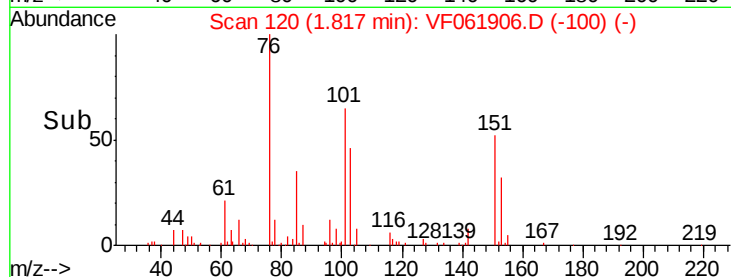
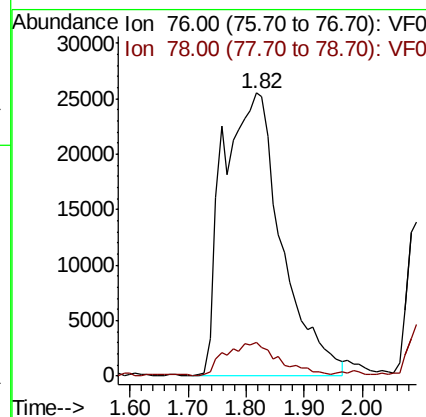
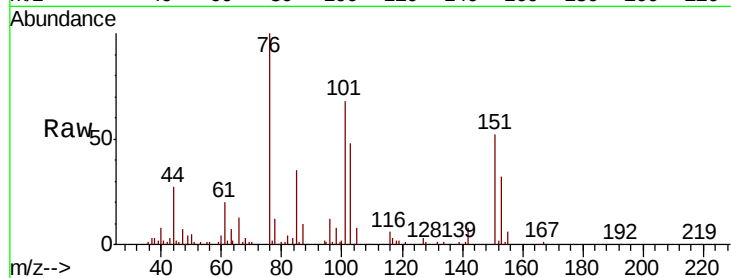
#17
Carbon Disulfide
Concen: 21.967 ug/l
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 76 Resp: 178655
Ion Ratio Lower Upper
76 100
78 12.0 9.1 13.7

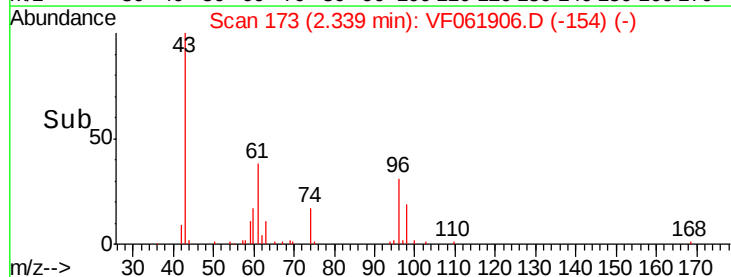
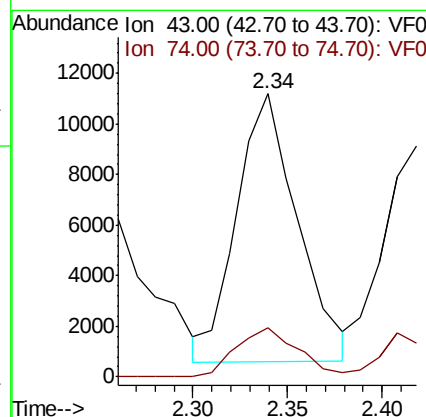
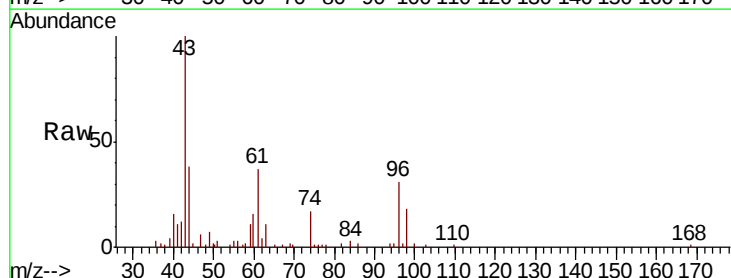
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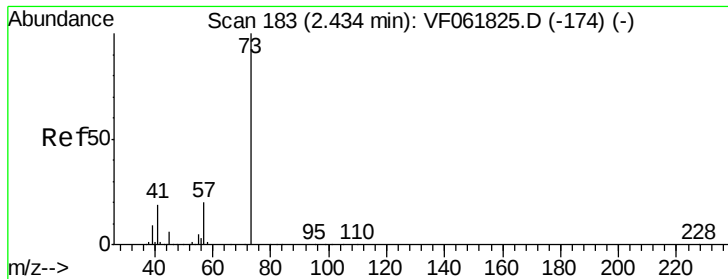
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#18
Methyl Acetate
Concen: 25.749 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 43 Resp: 23742
Ion Ratio Lower Upper
43 100
74 17.4 13.2 19.8





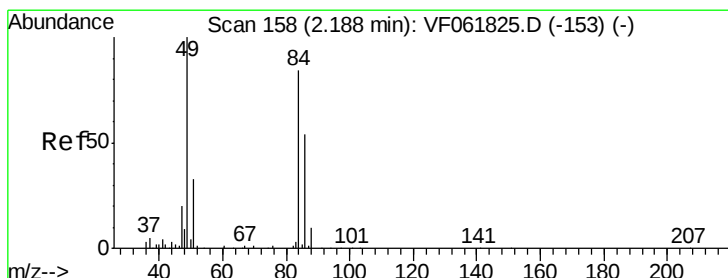
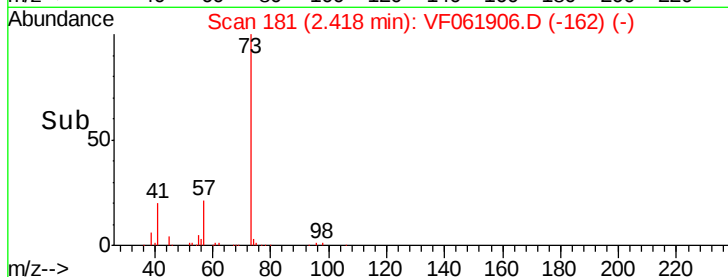
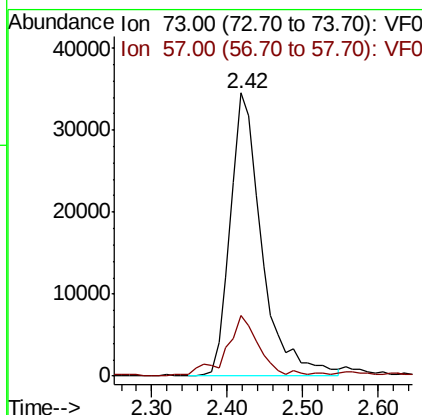
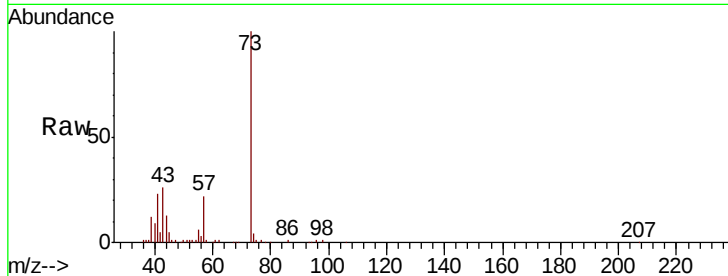
#19
Methyl tert-butyl Ether
Concen: 22.601 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 73 Resp: 99892
Ion Ratio Lower Upper
73 100
57 21.6 16.1 24.1

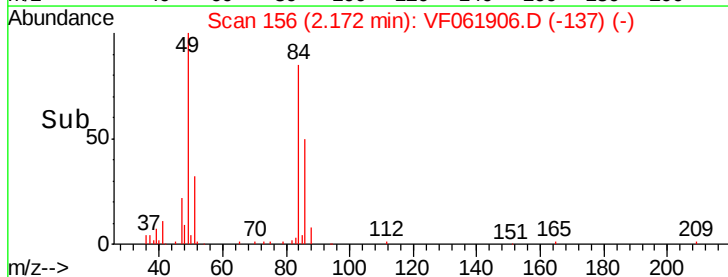
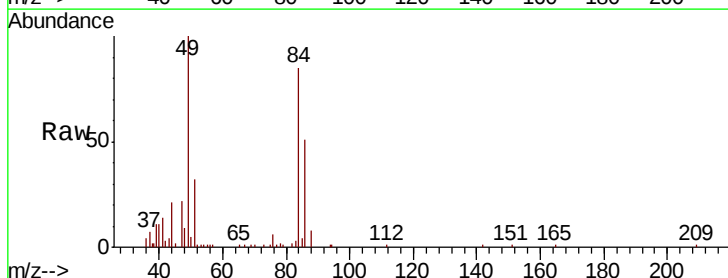
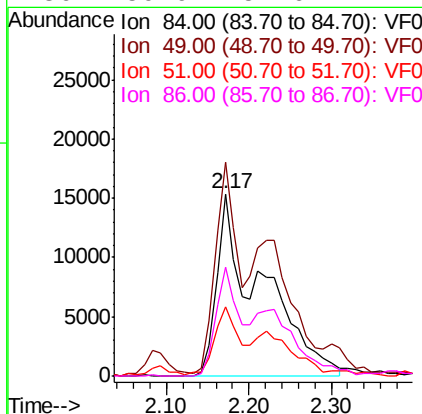
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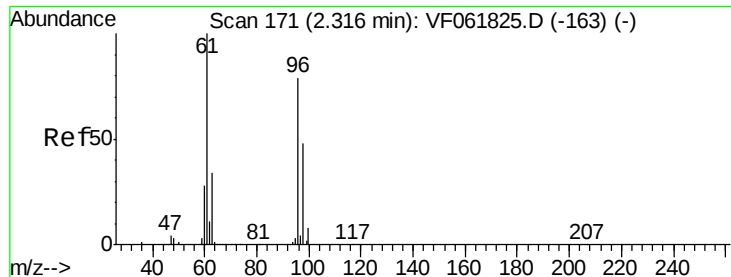
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#20
Methylene Chloride
Concen: 19.192 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 84 Resp: 58080
Ion Ratio Lower Upper
84 100
49 117.4 96.8 145.2
51 37.7 31.8 47.6
86 59.9 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 25.874 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

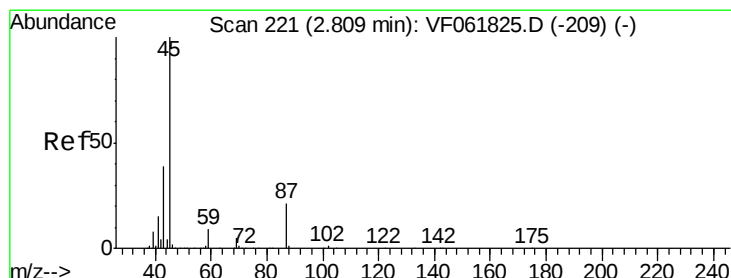
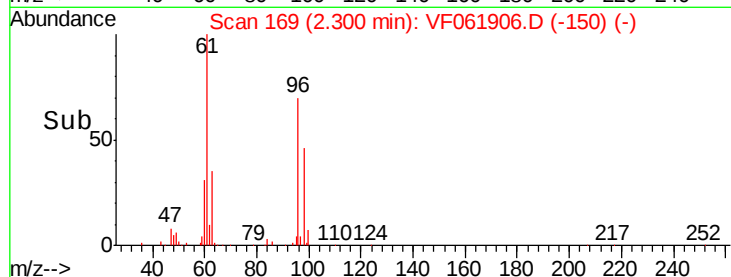
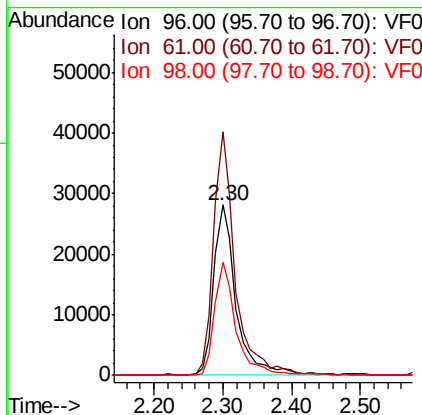
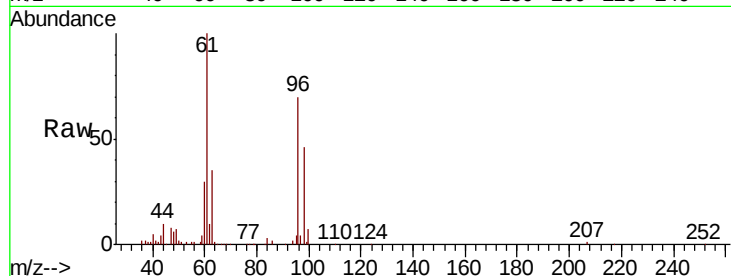
ClientSampleId :

VF0312SBS01

Tgt Ion:	96	Resp:	63623
Ion	Ratio	Lower	Upper
96	100		
61	143.0	101.0	151.6
98	66.3	48.8	73.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 23.116 ug/l

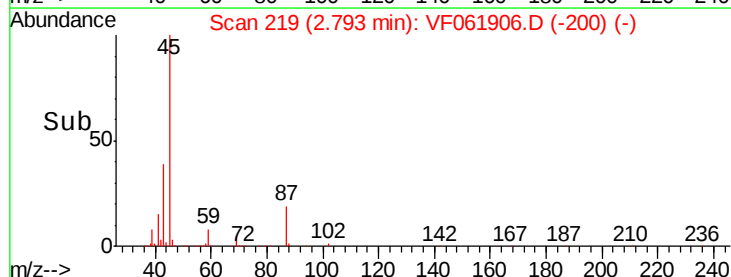
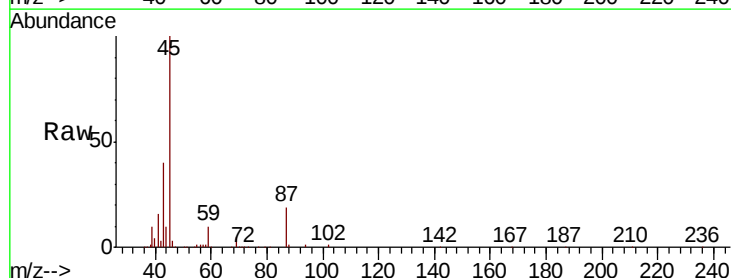
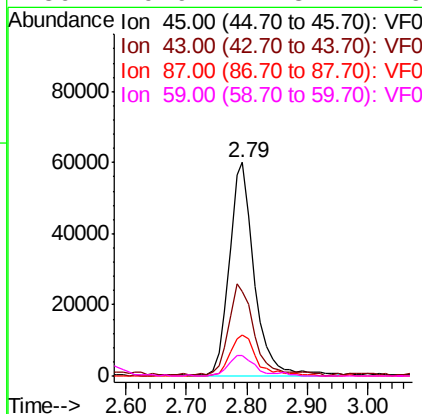
RT: 2.79 min Scan# 219

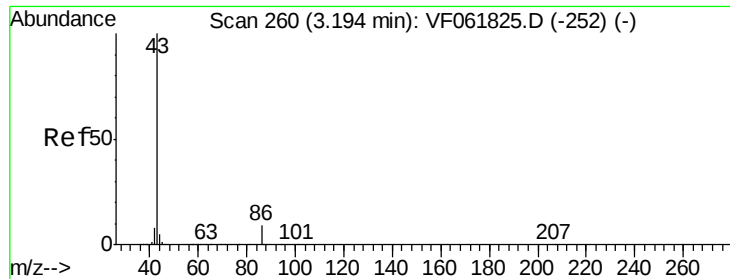
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	45	Resp:	173076
Ion	Ratio	Lower	Upper
45	100		
43	39.8	31.8	47.8
87	19.3	17.1	25.7
59	9.9	7.8	11.6





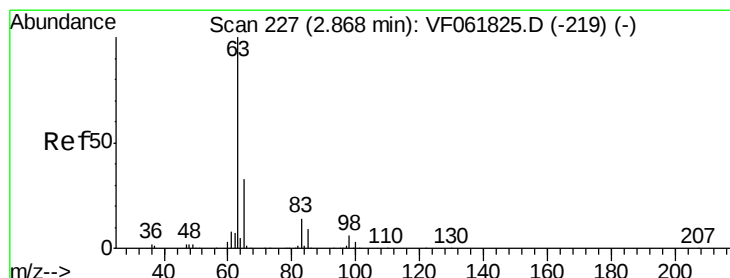
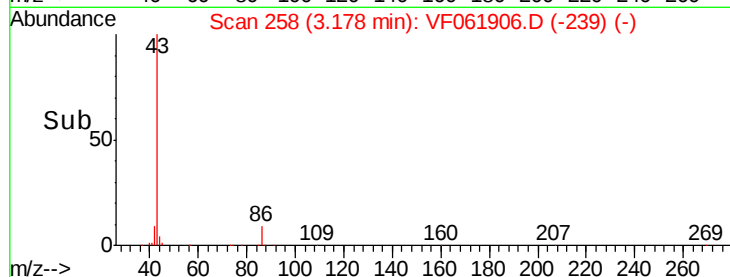
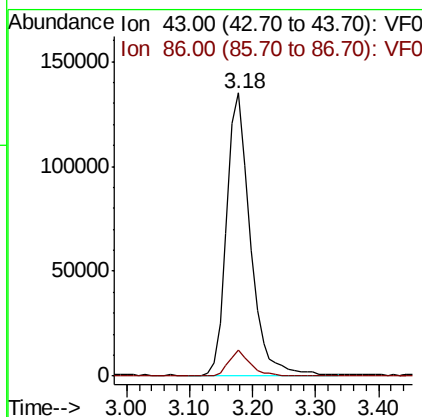
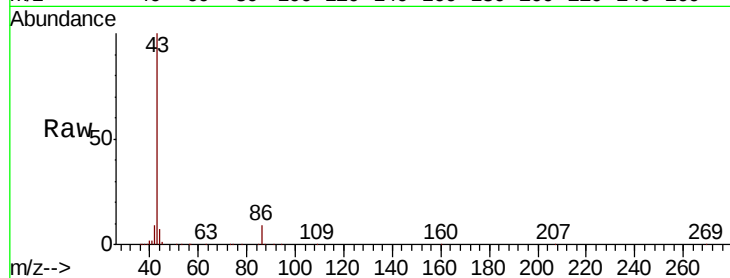
#23
 Vinyl Acetate
 Concen: 105.236 ug/l
 RT: 3.18 min Scan# 258
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	351996		
86	9.2	7.0	10.4	

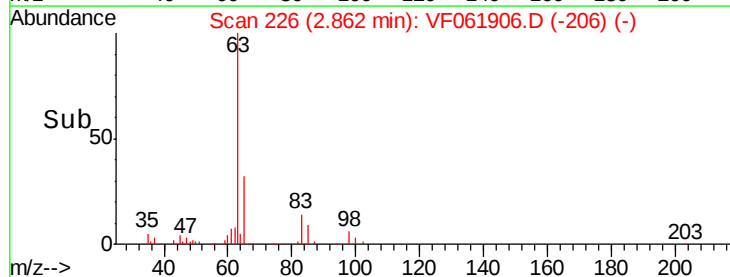
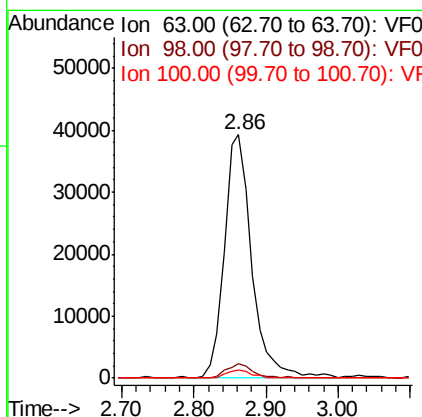
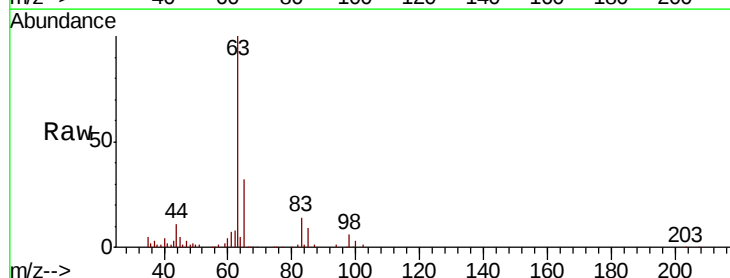
Manual Integrations
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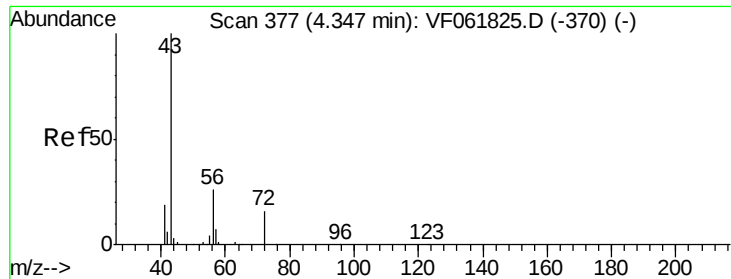
MMDadoda
 3/13/2019 4:41:29 PM



#24
 1,1-Dichloroethane
 Concen: 23.180 ug/l
 RT: 2.86 min Scan# 226
 Delta R.T. -0.01 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	103734		
98	5.8	2.9	8.6	
100	3.2	1.8	5.3	





#25

2-Butanone

Concen: 110.136 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion: 43 Resp: 104400

Ion Ratio Lower Upper

43 100

72 20.5 16.2 24.4

Instrument :

MSVOA_F

ClientSampleId :

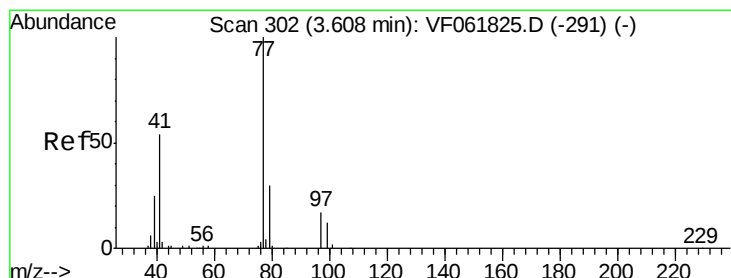
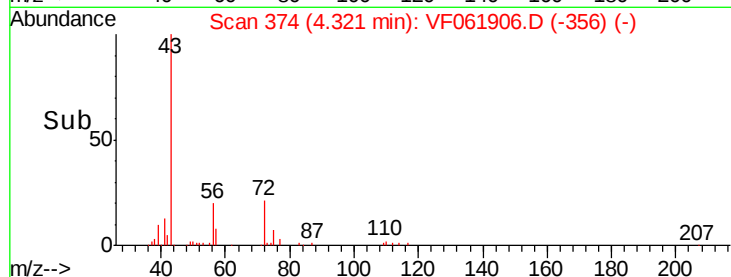
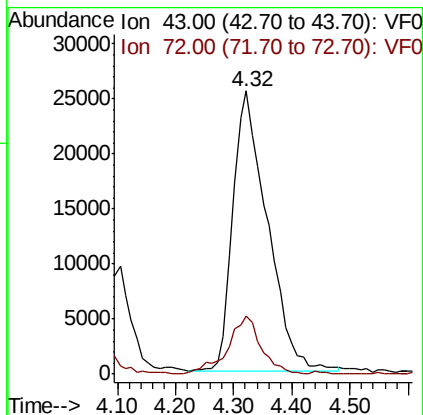
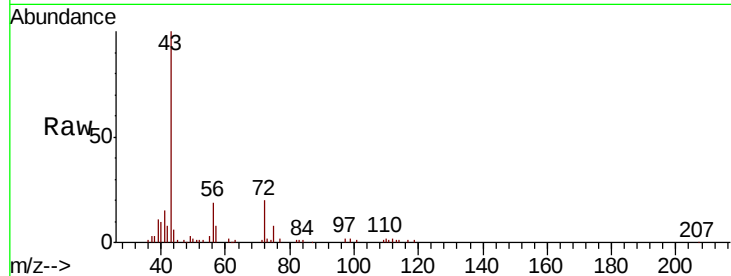
VF0312SBS01

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#26

2,2-Dichloropropane

Concen: 26.130 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061906.D

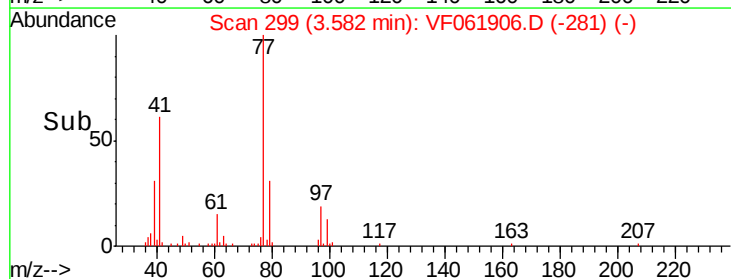
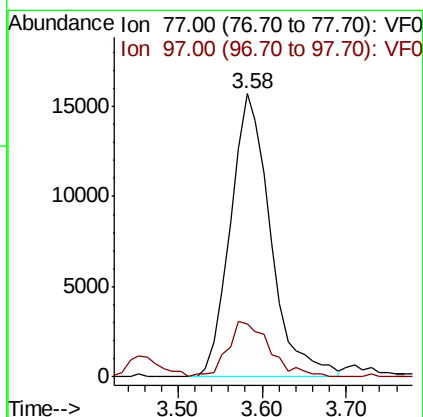
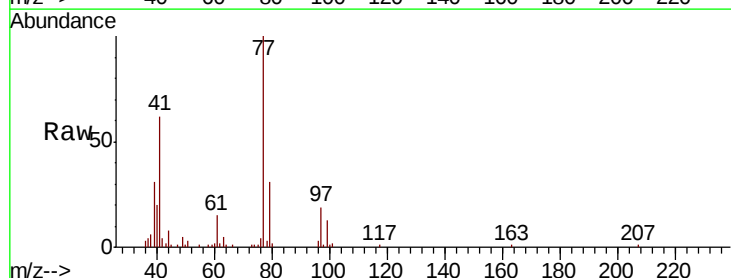
Acq: 12 Mar 2019 15:43

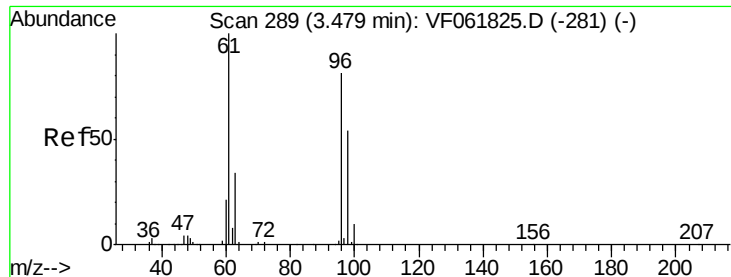
Tgt Ion: 77 Resp: 52202

Ion Ratio Lower Upper

77 100

97 18.9 10.4 31.4





#27

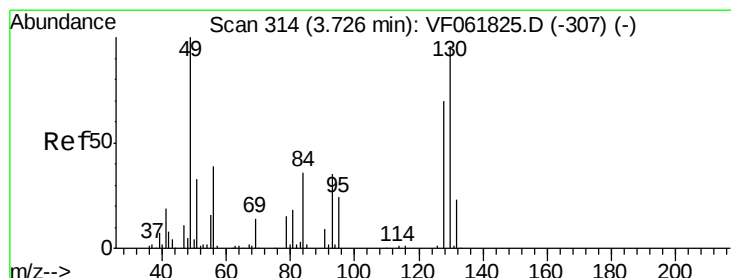
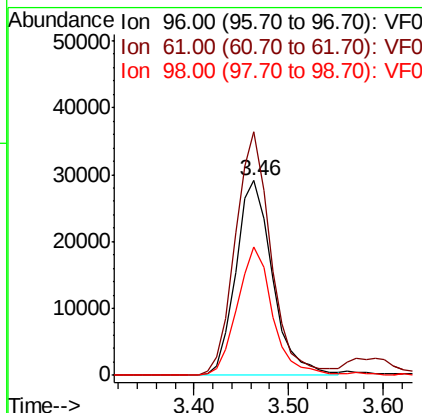
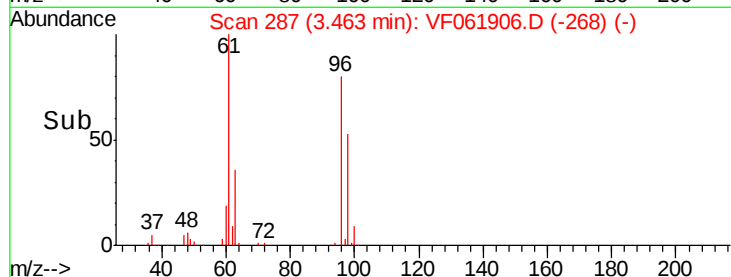
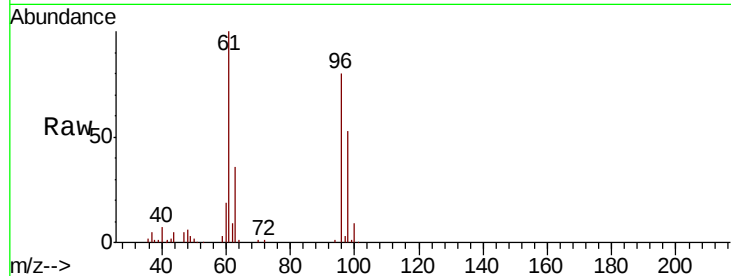
cis-1,2-Dichloroethene
 Concen: 23.063 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	125.2	0.0	245.8
98	66.3	0.0	132.6

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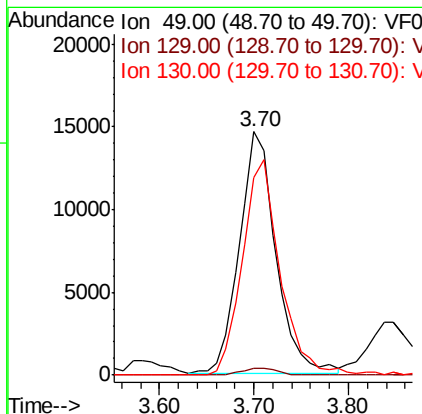
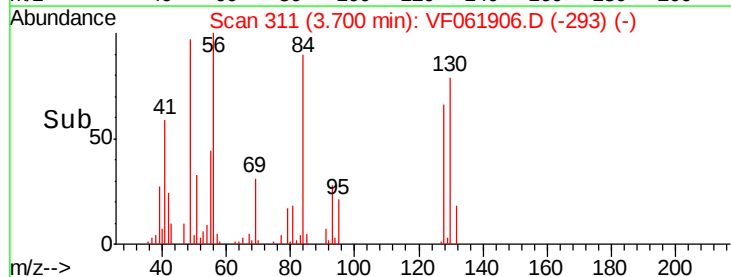
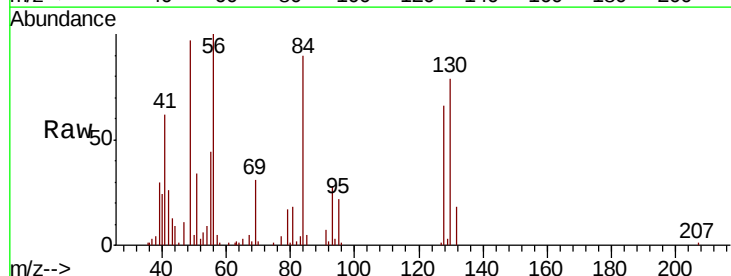
MMDadoda
 3/13/2019 4:41:29 PM

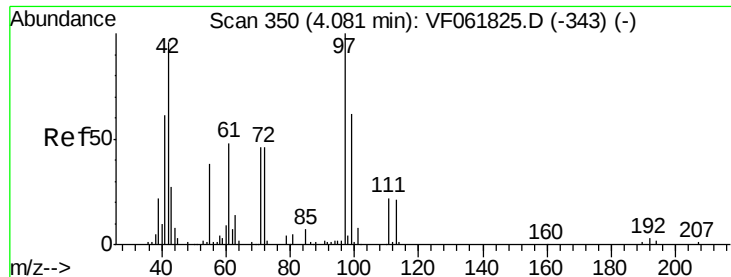


#28

Bromochloromethane
 Concen: 19.960 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.03 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp Lower	Resp Upper
49	100		
129	3.0	0.0	0.0#
130	81.3	76.9	115.3





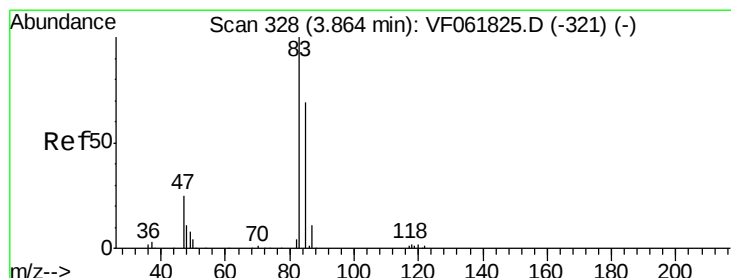
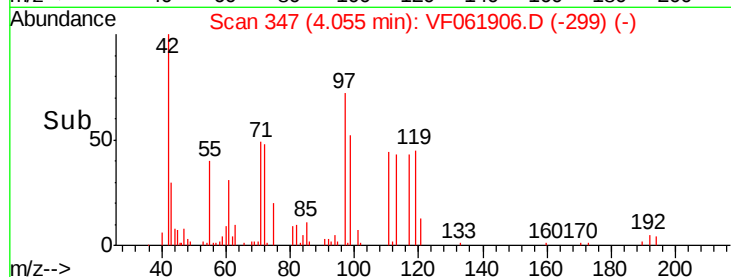
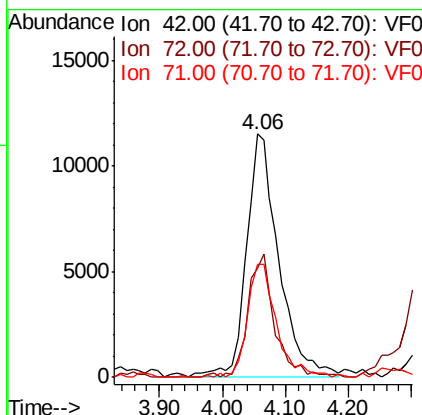
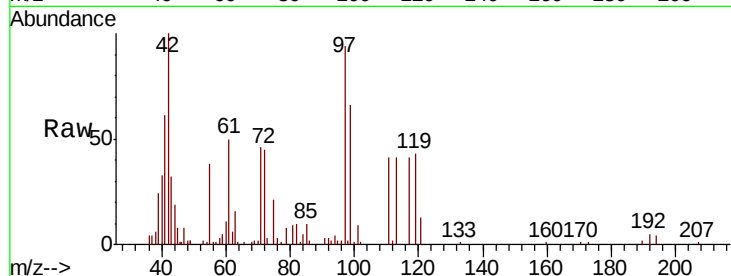
#29
Tetrahydrofuran
Concen: 100.793 ug/l
RT: 4.06 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.9	34.4	51.6
71	41.9	34.6	52.0

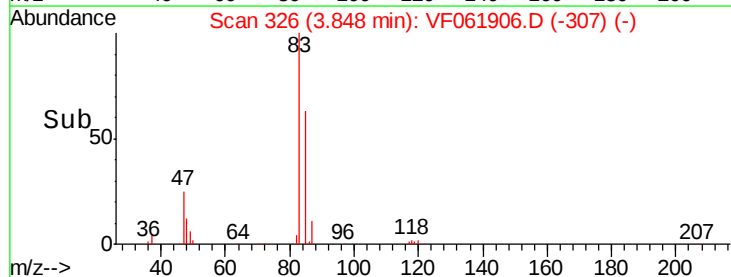
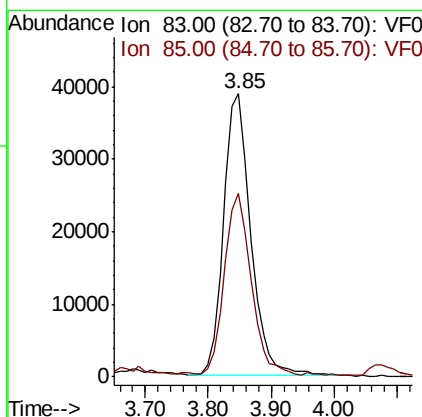
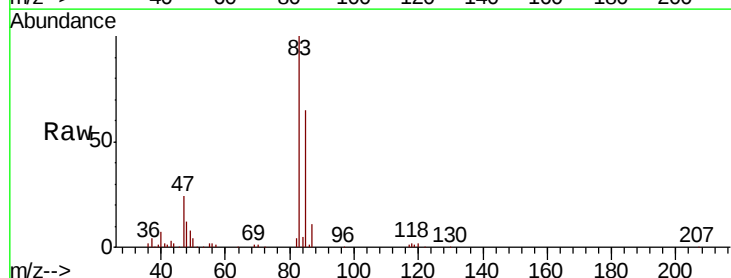
Manual Integrations
APPROVED

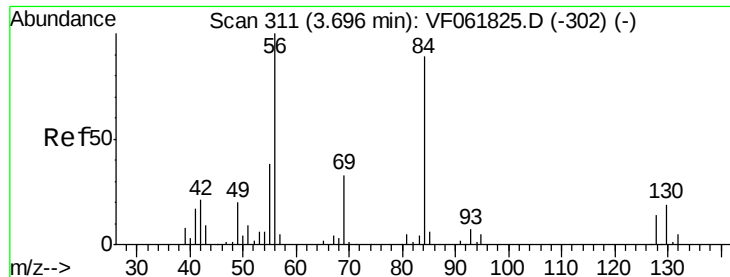
MMDadoda
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#30
Chloroform
Concen: 22.643 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	55.3	82.9





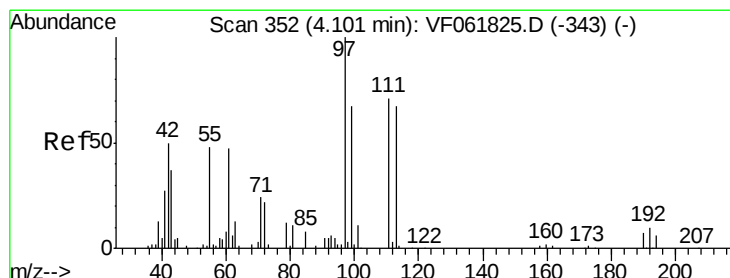
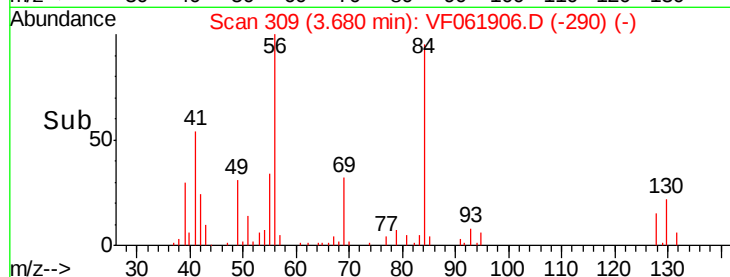
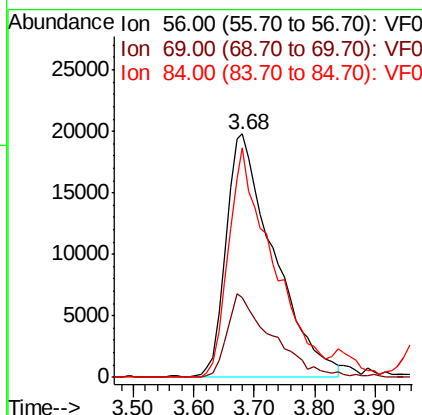
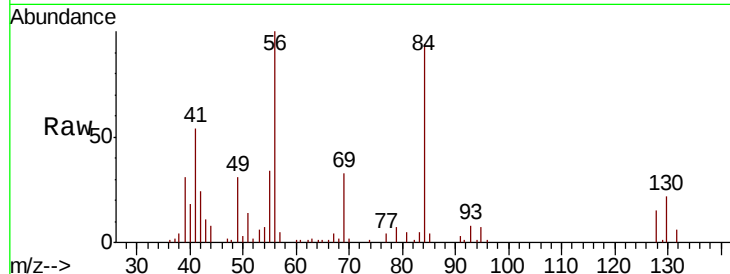
#31
Cyclohexane
Concen: 23.148 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.5	26.0	39.0
84	94.3	71.0	106.6

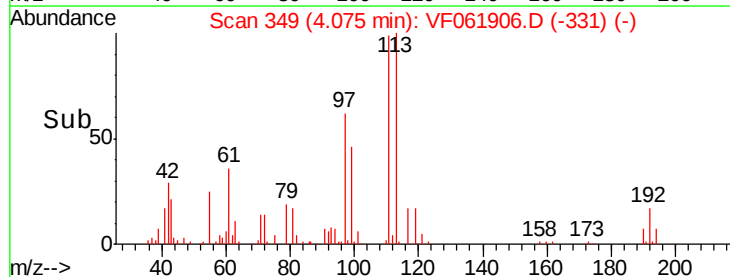
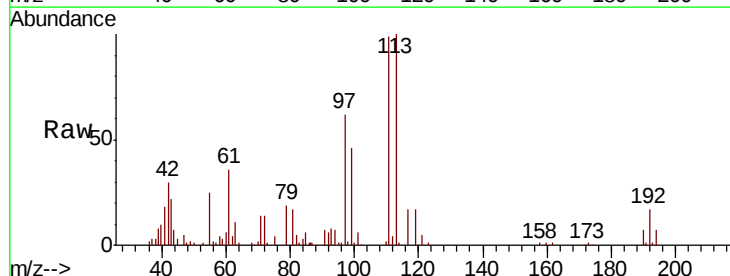
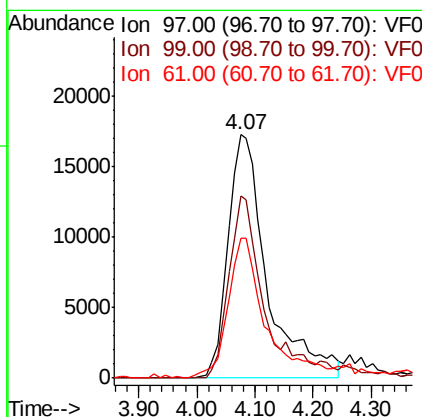
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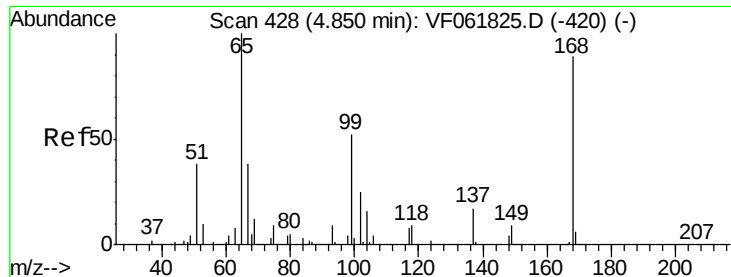
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 25.737 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	74.8	53.8	80.8
61	57.3	37.9	56.9#





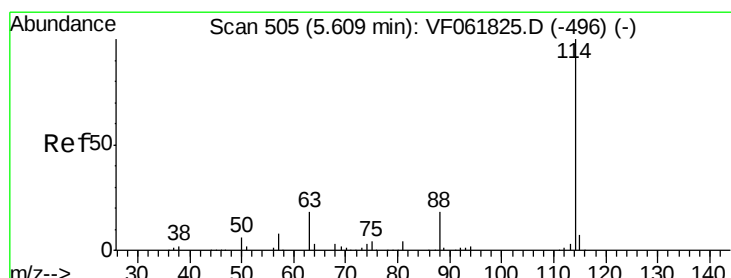
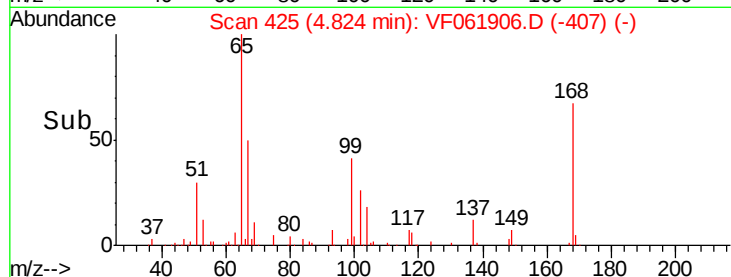
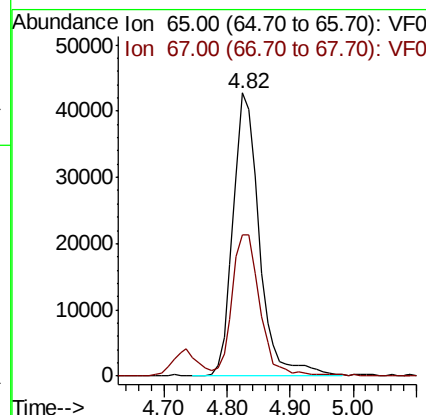
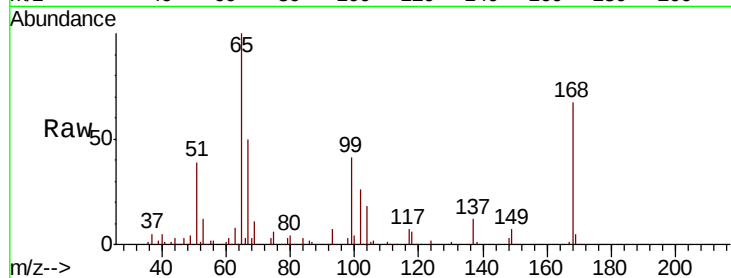
#33
 1,2-Dichloroethane-d4
 Concen: 55.730 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.03 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	123984		
67	49.9	0.0	108.6	

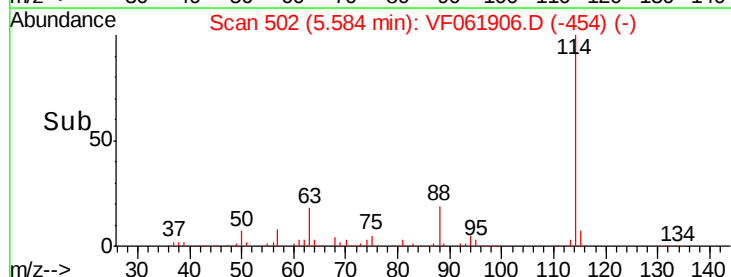
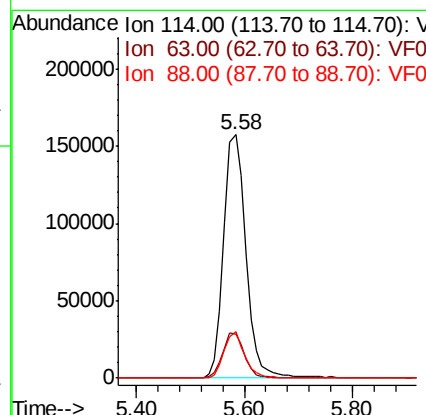
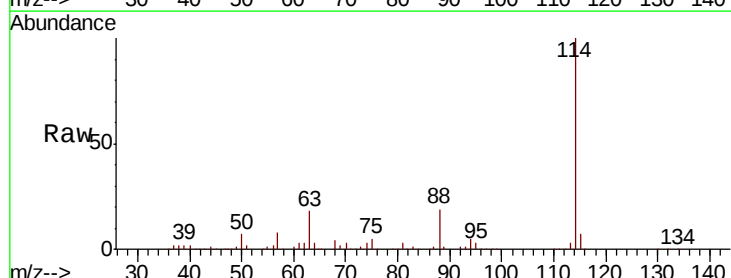
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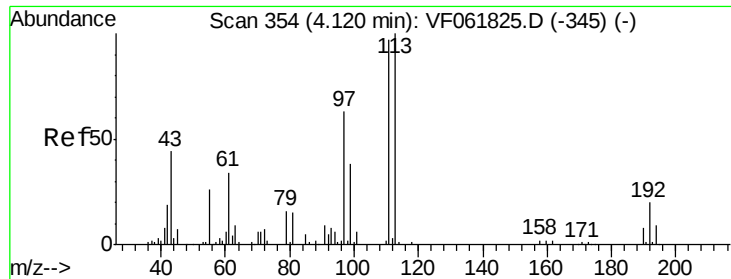
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	450783		
63	18.0	0.0	35.6	
88	18.9	0.0	35.6	





#35

Dibromofluoromethane

Concen: 54.245 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

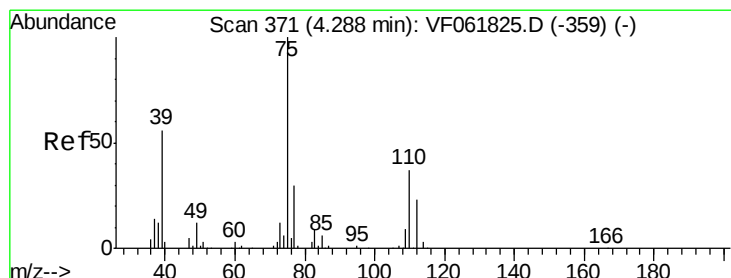
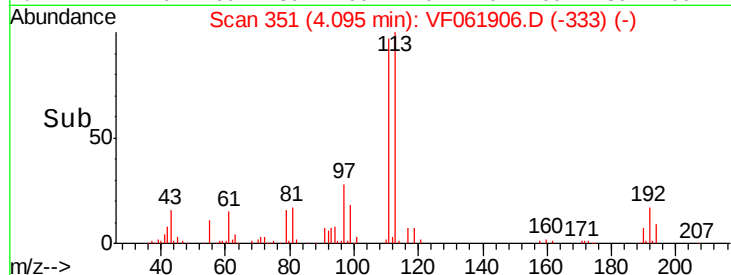
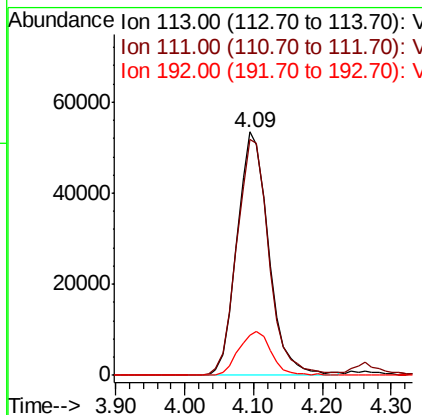
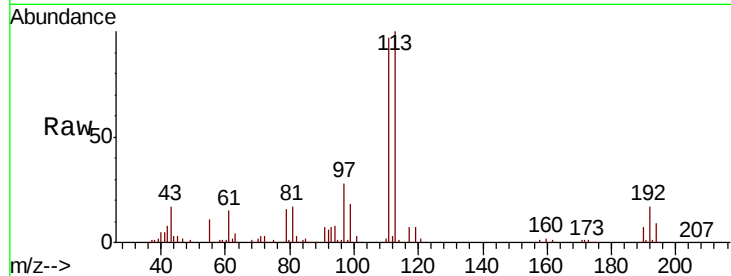
ClientSampleId :

VF0312SBS01

Tgt Ion:	113	Resp:	170647
Ion Ratio	Lower	Upper	
113	100		
111	96.9	77.6	116.4
192	16.5	15.9	23.9

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#36

1,1-Dichloropropene

Concen: 21.801 ug/l

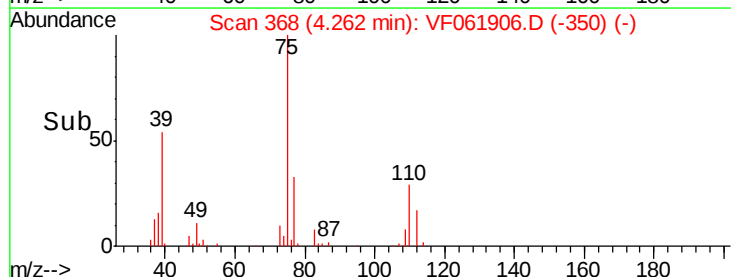
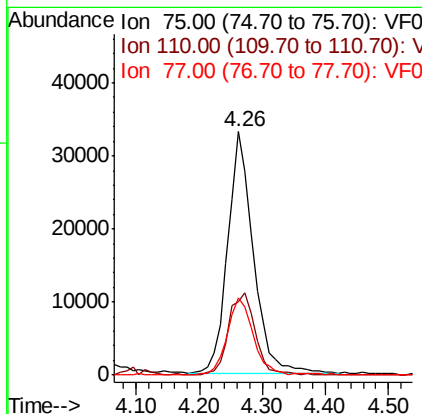
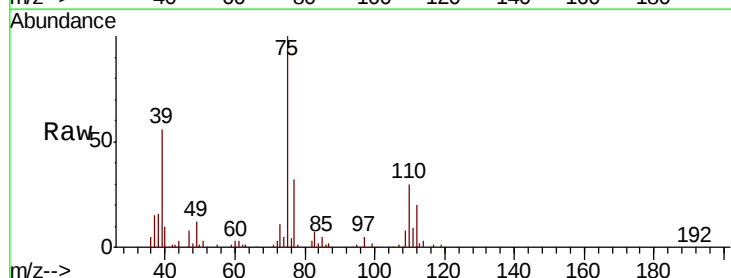
RT: 4.26 min Scan# 368

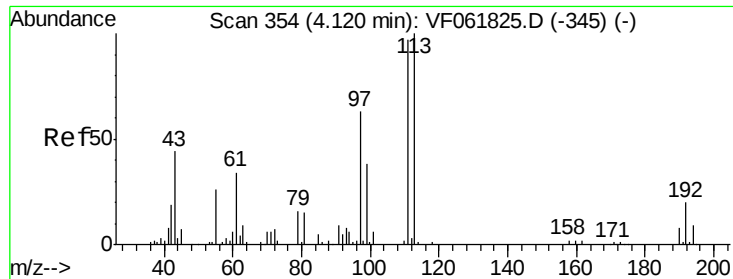
Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	75	Resp:	92834
Ion Ratio	Lower	Upper	
75	100		
110	30.2	18.6	55.6
77	31.7	24.2	36.2





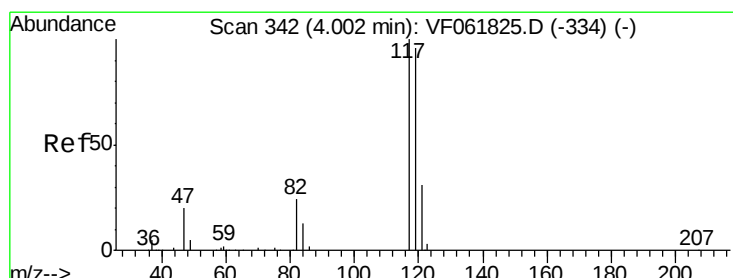
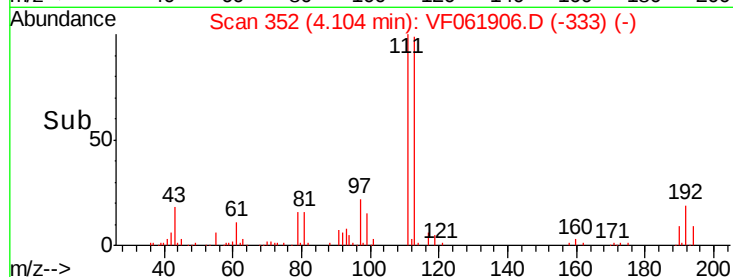
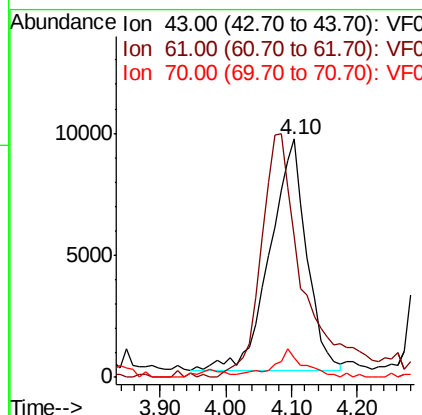
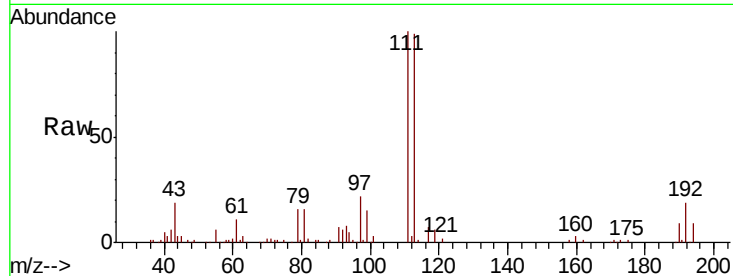
#37
Ethyl Acetate
Concen: 20.339 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampled :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	59.2	60.7	91.1#
70	8.2	10.6	15.8#

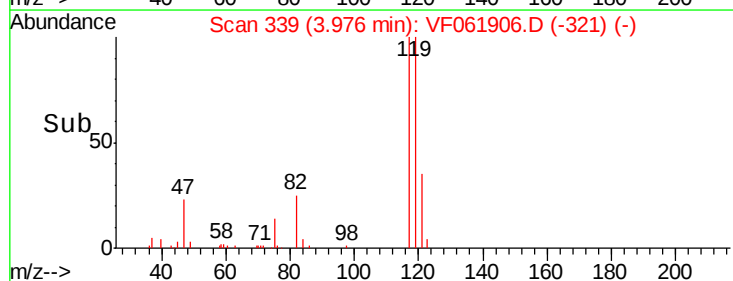
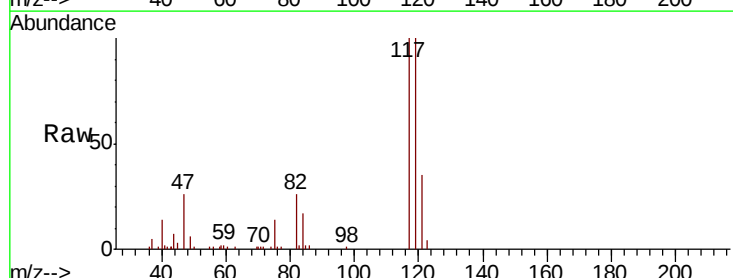
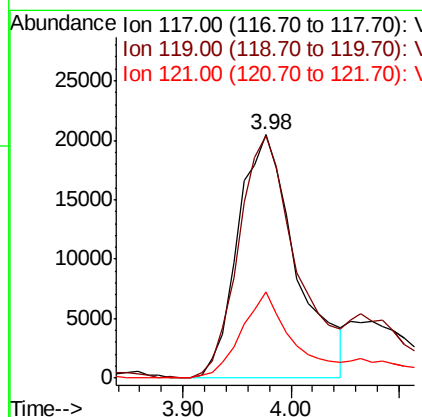
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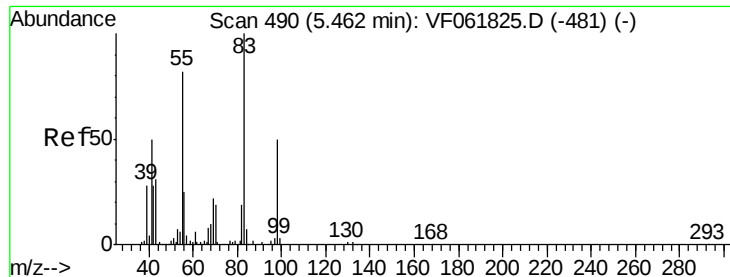
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#38
Carbon Tetrachloride
Concen: 25.610 ug/l
RT: 3.98 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.8	76.6	114.8
121	35.1	24.4	36.6





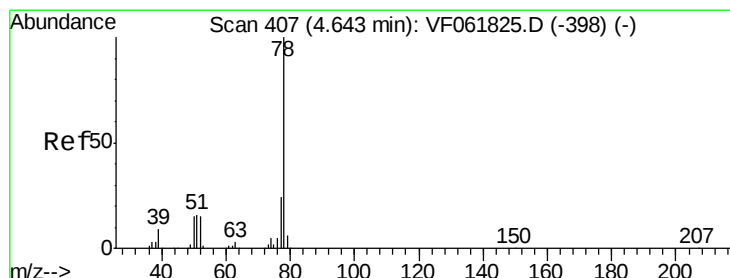
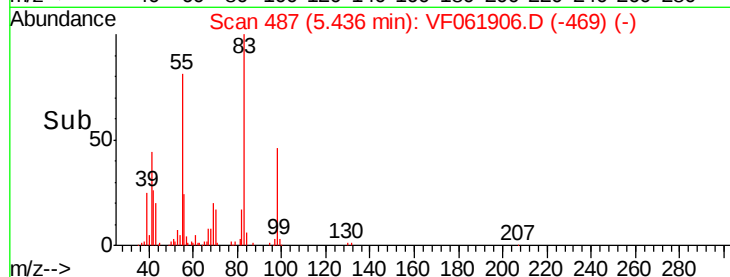
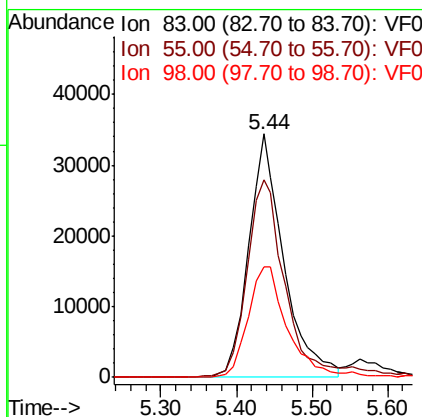
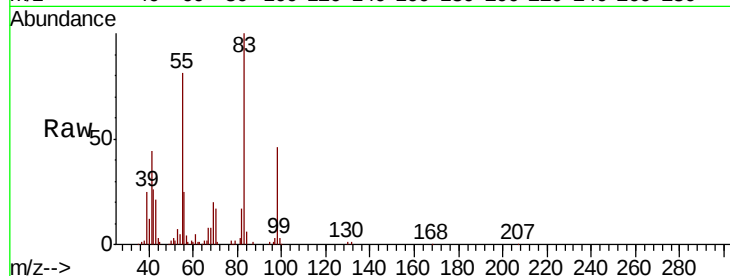
#39
Methylcyclohexane
Concen: 22.032 ug/l
RT: 5.44 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	110812		
55	81.4	66.0	99.0	
98	45.5	39.8	59.6	

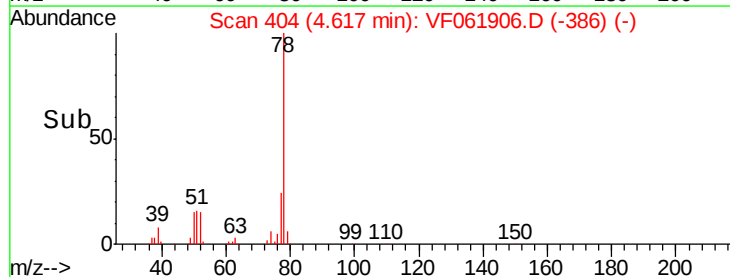
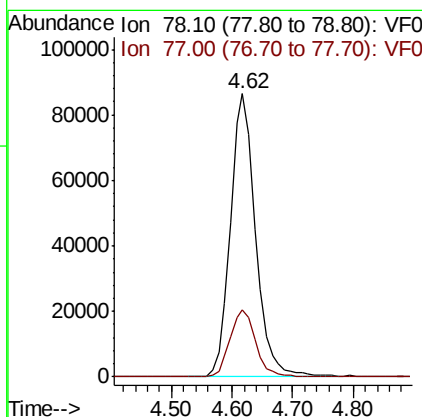
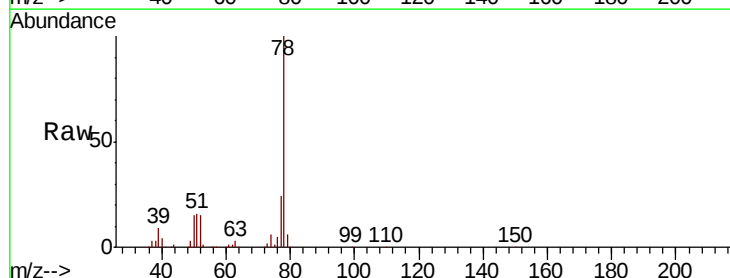
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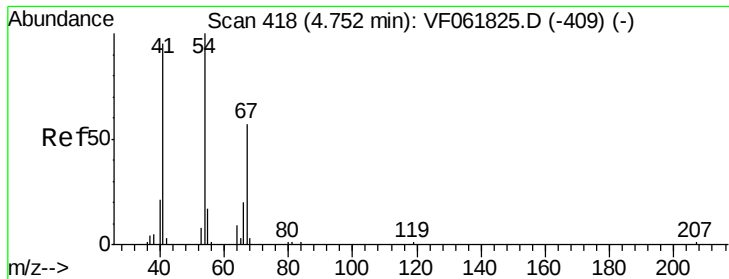
MMDadoda
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#40
Benzene
Concen: 22.398 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	249293		
77	23.6	19.5	29.3	





#41

Methacrylonitrile

Concen: 18.088 ug/l

RT: 4.74 min Scan# 416

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

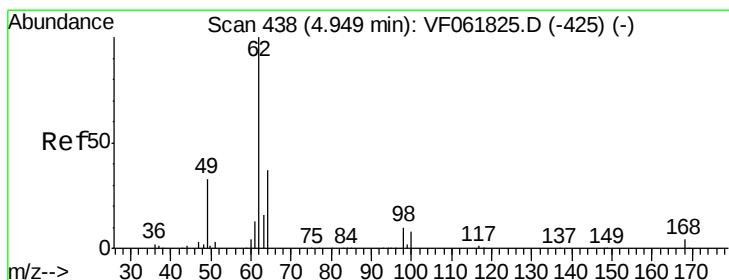
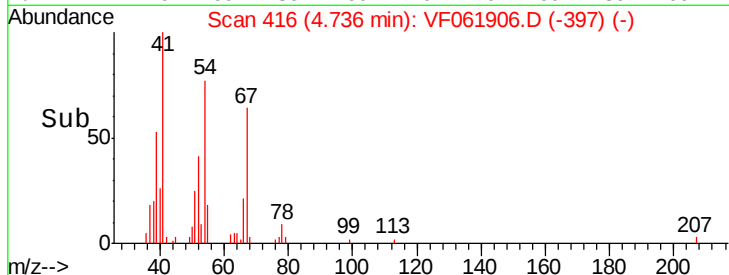
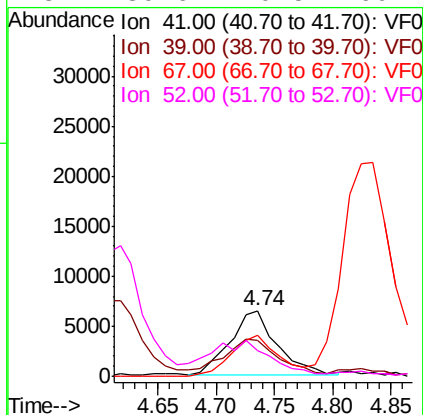
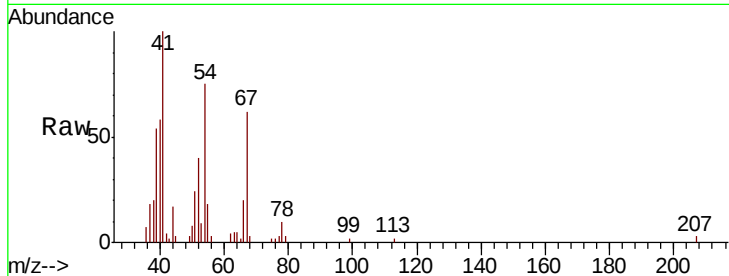
ClientSampleId :

VF0312SBS01

Manual Integrations
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Tgt Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.0	64.6
67	62.5	47.8	71.8
52	39.6	40.5	60.7#



#42

1,2-Dichloroethane

Concen: 22.330 ug/l

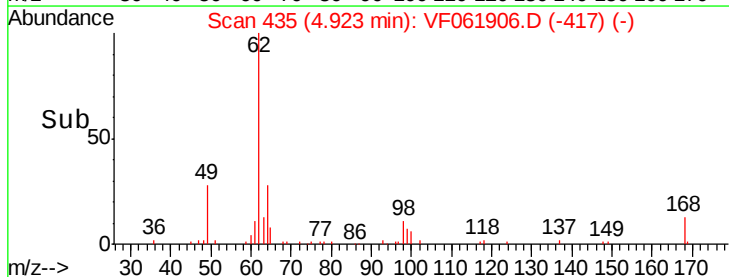
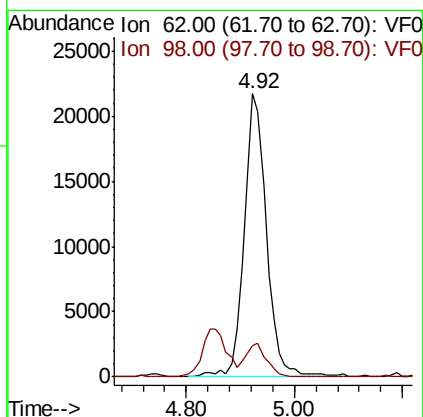
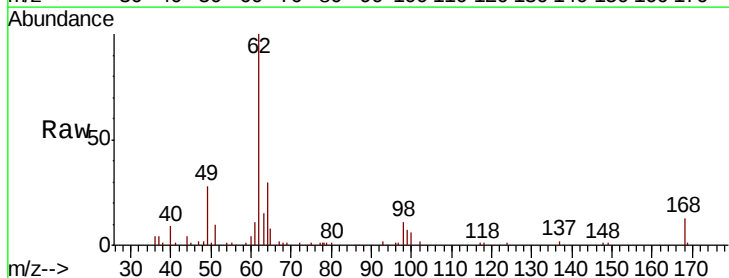
RT: 4.92 min Scan# 435

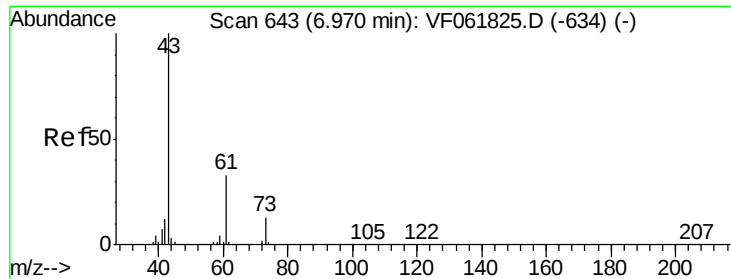
Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.0





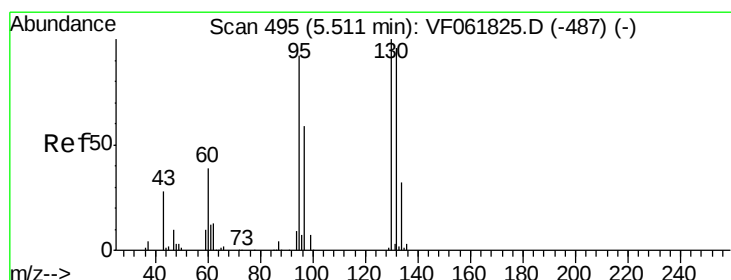
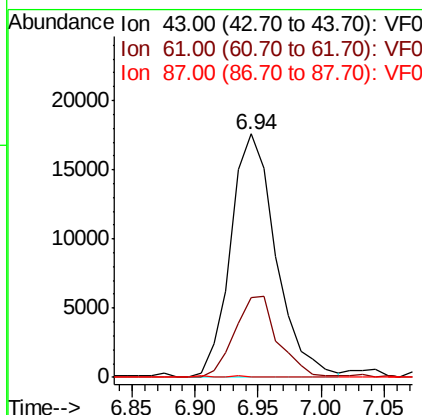
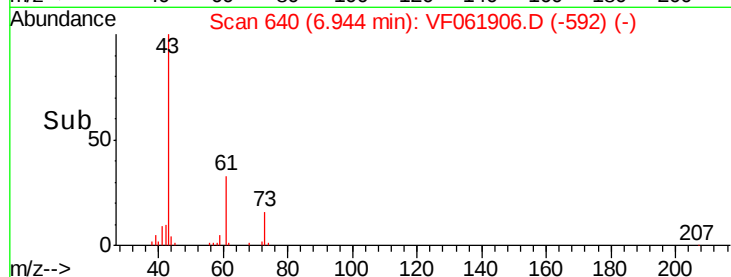
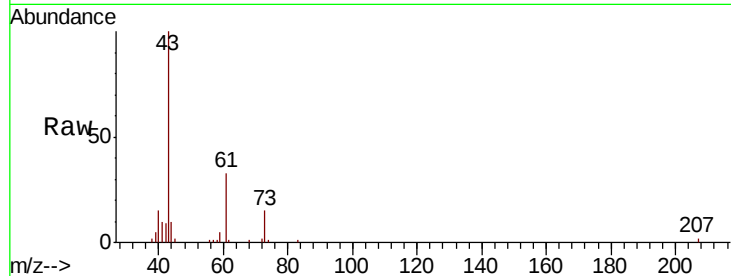
#43
Isopropyl Acetate
Concen: 19.870 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 43 Resp: 43777
Ion Ratio Lower Upper
43 100
61 32.8 26.1 39.1
87 0.0 0.0 0.0

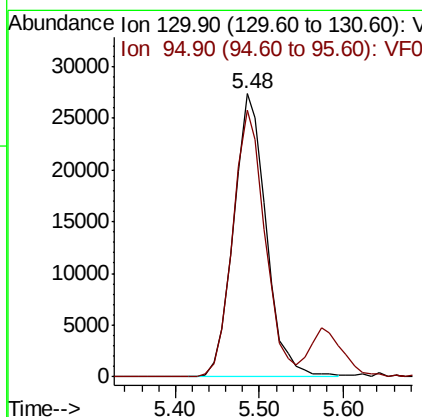
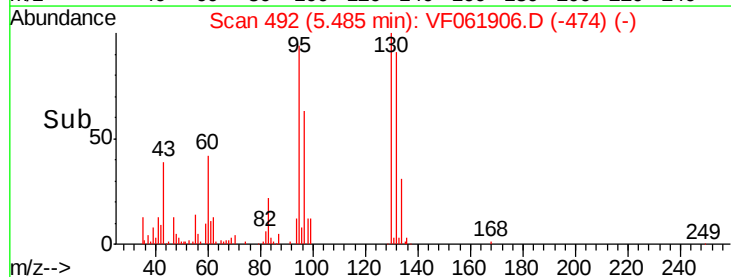
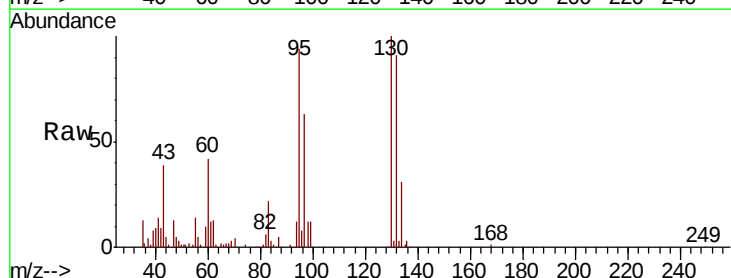
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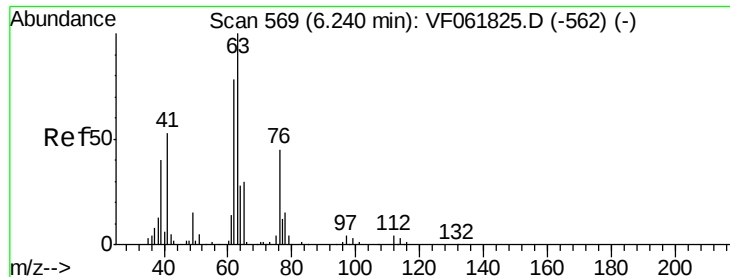
MMDadoda
3/13/2019 4:41:29 PM



#44
Trichloroethene
Concen: 21.348 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 130 Resp: 73840
Ion Ratio Lower Upper
130 100
95 94.4 0.0 184.0





#45

1,2-Dichloropropane

Concen: 21.924 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 63 Resp: 58027

Ion Ratio Lower Upper

63 100

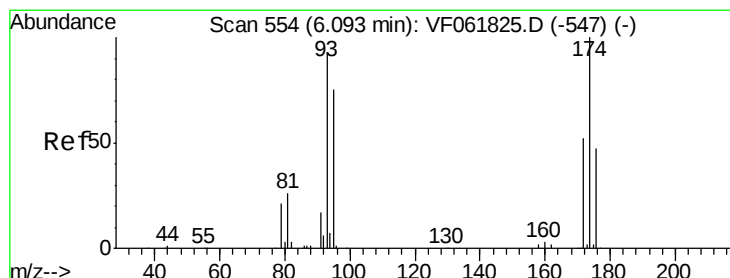
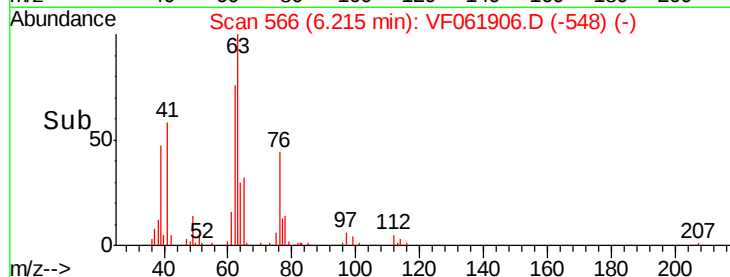
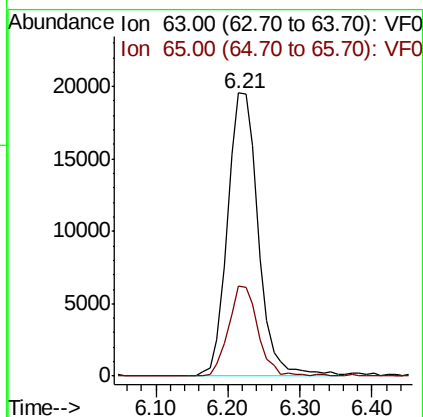
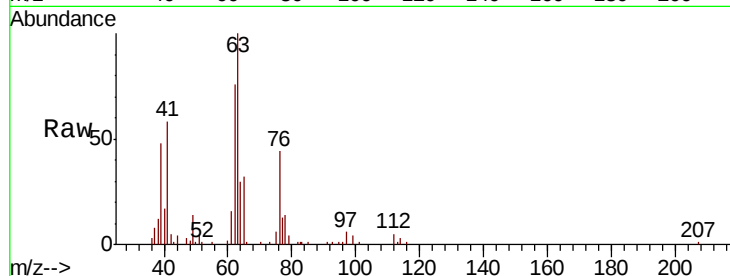
65 31.8 24.0 36.0

Manual Integrations

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#46

Dibromomethane

Concen: 21.182 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

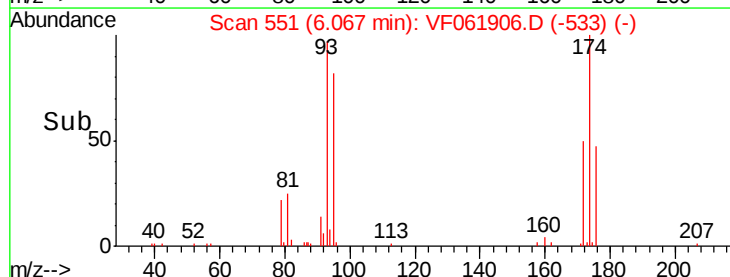
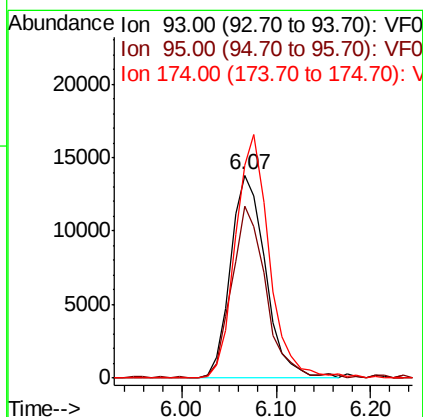
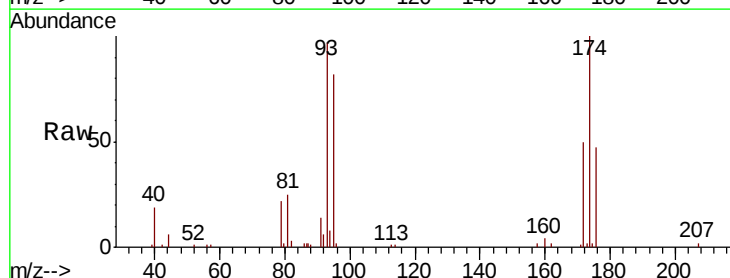
Tgt Ion: 93 Resp: 35283

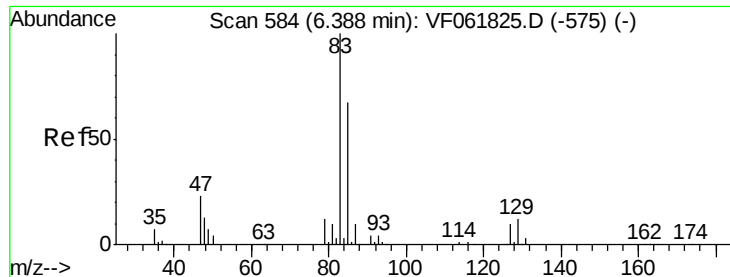
Ion Ratio Lower Upper

93 100

95 84.8 64.4 96.6

174 104.8 85.8 128.6





#47

Bromodichloromethane

Concen: 21.470 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

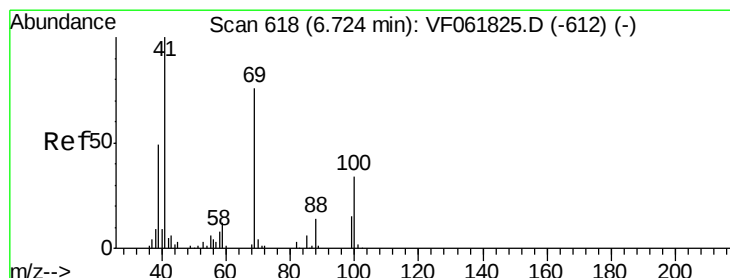
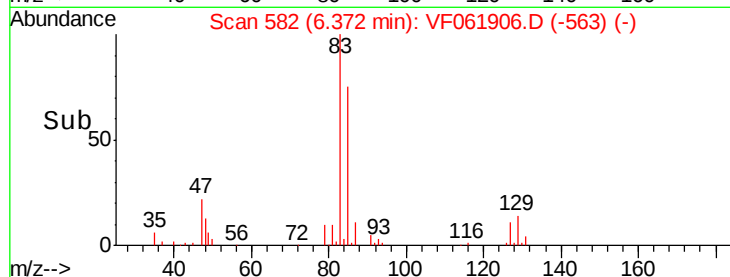
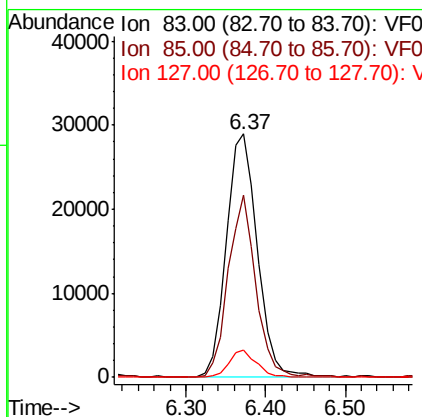
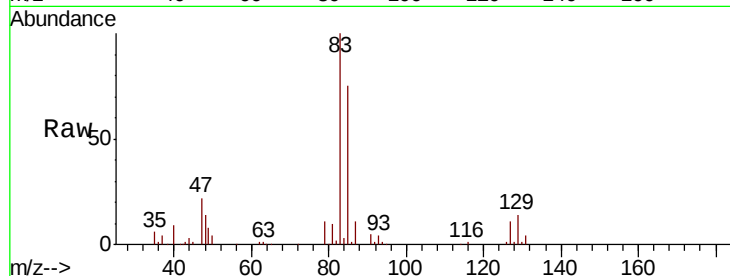
ClientSampleId :

VF0312SBS01

Tgt Ion:	83	Resp:	79011
Ion	Ratio	Lower	Upper
83	100		
85	74.9	53.6	80.4
127	11.1	8.1	12.1

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#48

Methyl methacrylate

Concen: 20.181 ug/l

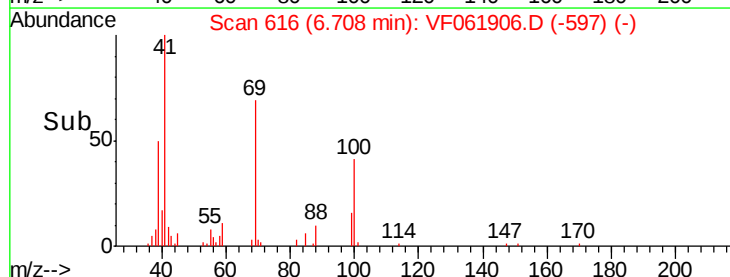
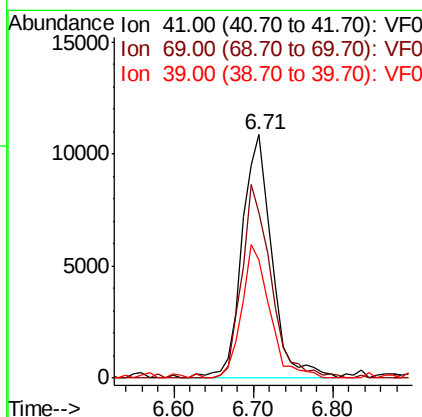
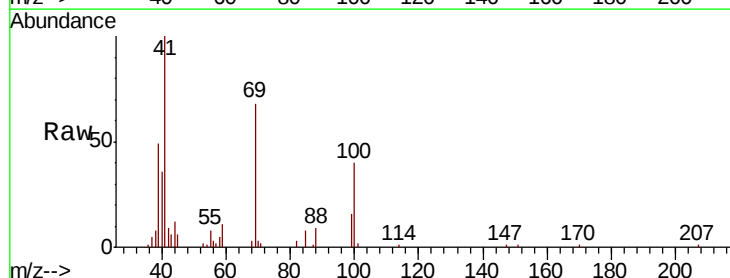
RT: 6.71 min Scan# 616

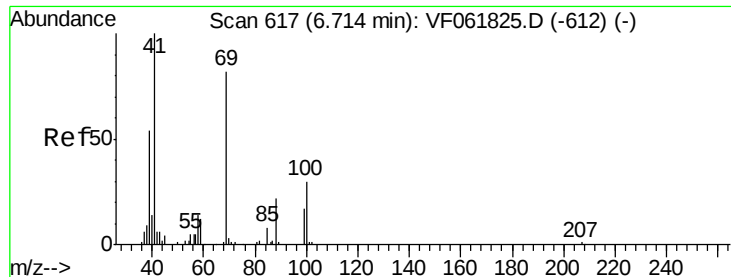
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	41	Resp:	28138
Ion	Ratio	Lower	Upper
41	100		
69	68.1	60.4	90.6
39	48.7	39.7	59.5





#49

1,4-Dioxane

Concen: 358.386 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

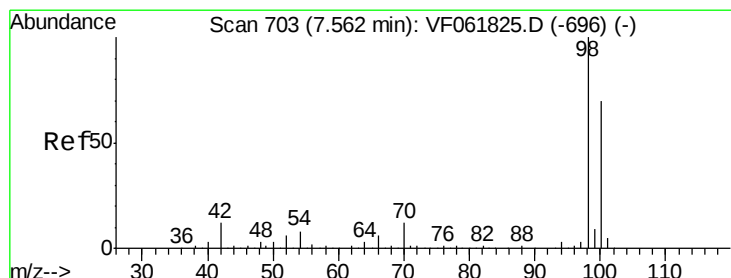
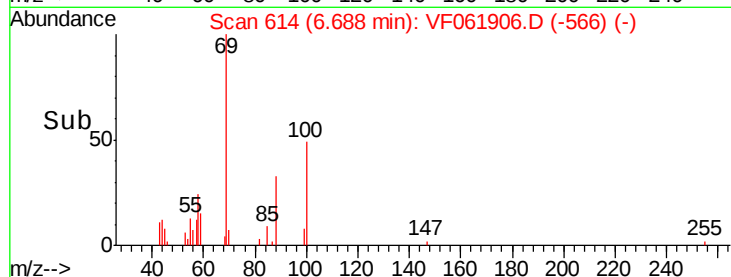
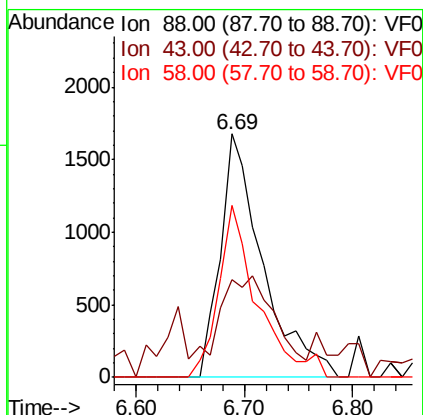
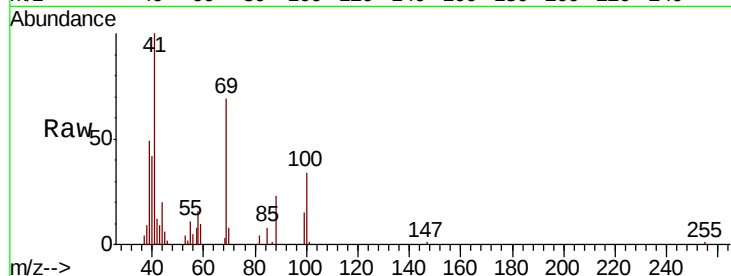
ClientSampleId :

VF0312SBS01

Tgt Ion:	88	Resp:	4568
Ion	Ratio	Lower	Upper
88	100		
43	40.3	28.4	42.6
58	70.5	50.7	76.1

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#50

Toluene-d8

Concen: 52.677 ug/l

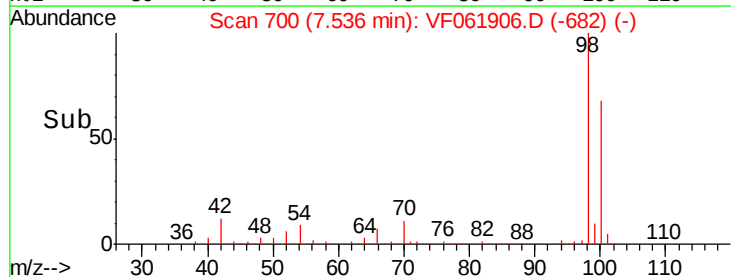
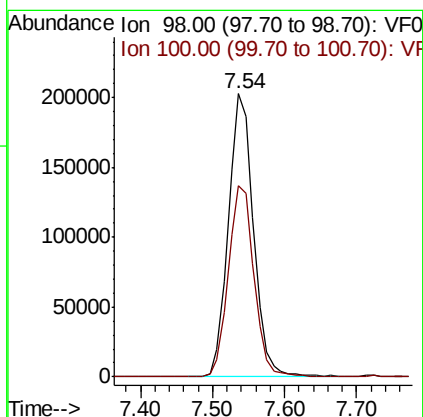
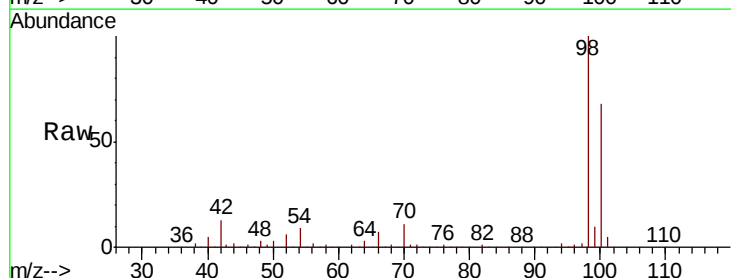
RT: 7.54 min Scan# 700

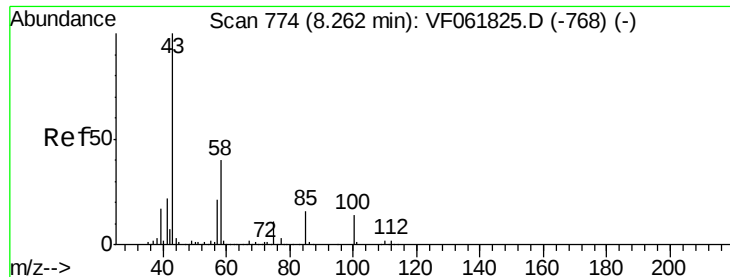
Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	98	Resp:	492551
Ion	Ratio	Lower	Upper
98	100		
100	67.7	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 108.141 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 43 Resp: 164663

Ion Ratio Lower Upper

43 100

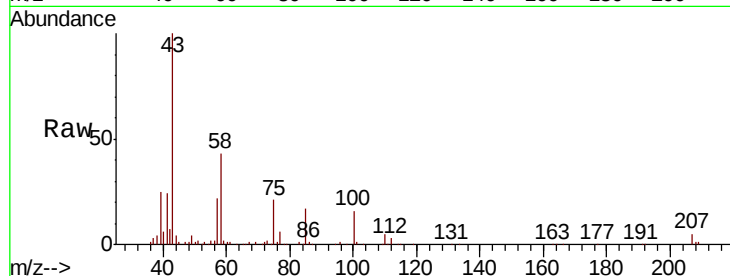
58 43.3 31.8 47.8

Manual Integrations

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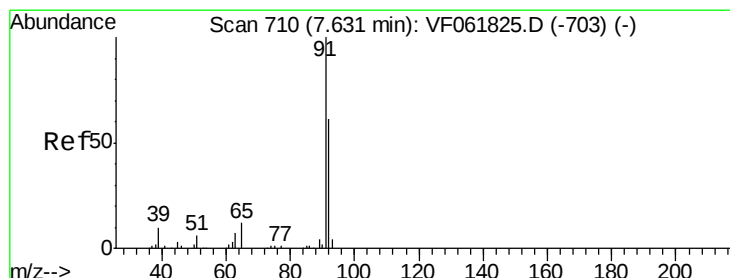
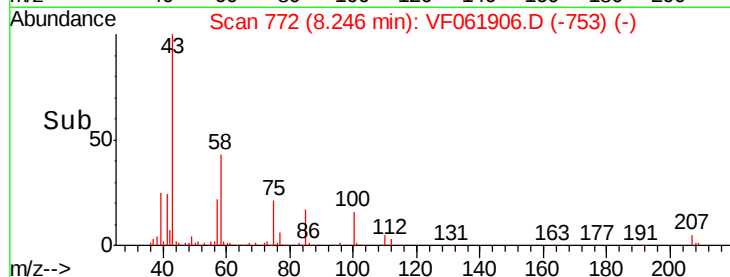
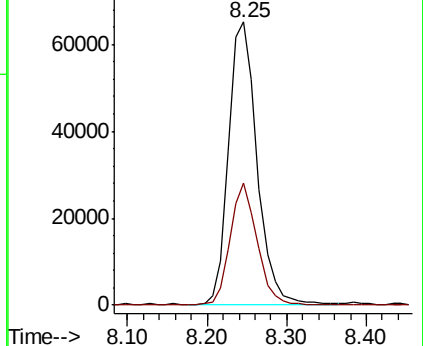
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 22.543 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061906.D

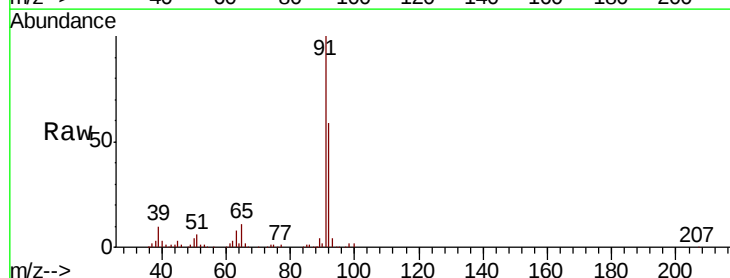
Acq: 12 Mar 2019 15:43

Tgt Ion: 92 Resp: 148434

Ion Ratio Lower Upper

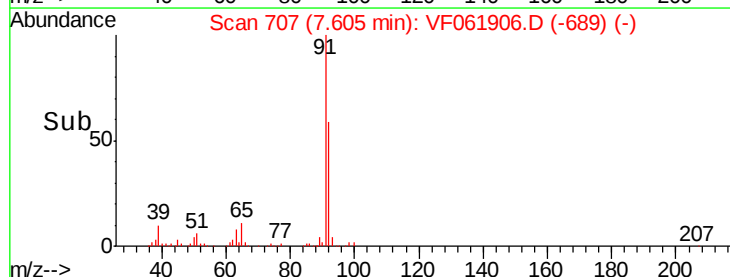
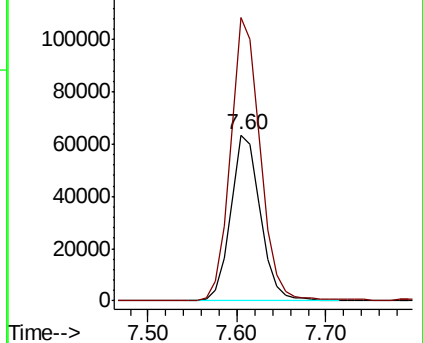
92 100

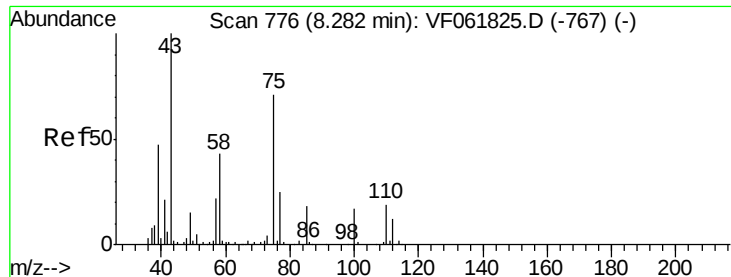
91 170.3 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





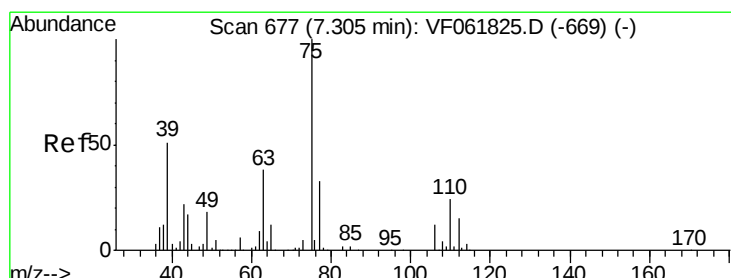
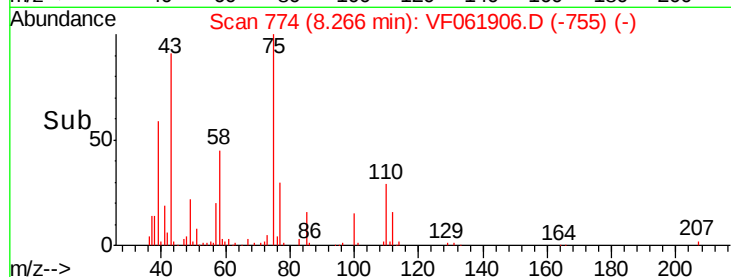
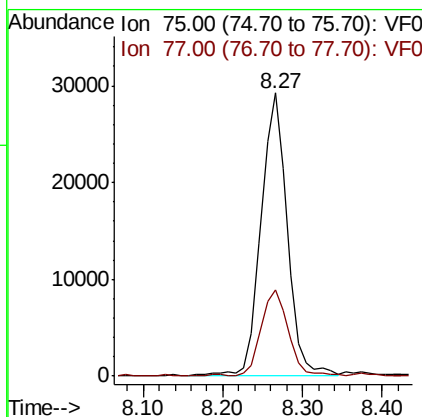
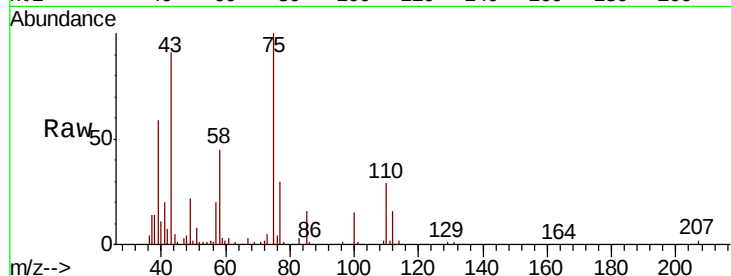
#53
t-1,3-Dichloropropene
Concen: 21.977 ug/l
RT: 8.27 min Scan# 774
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 75 Resp: 66760
Ion Ratio Lower Upper
75 100
77 30.4 28.0 42.0

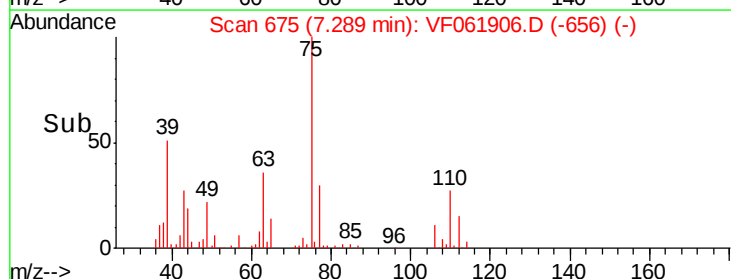
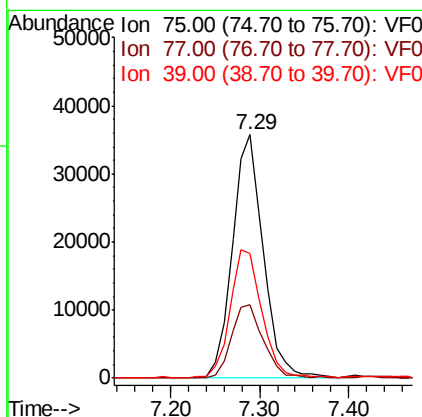
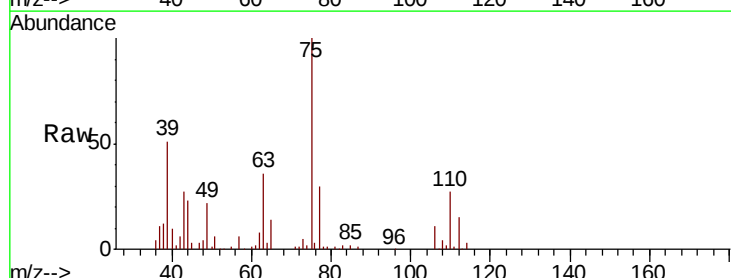
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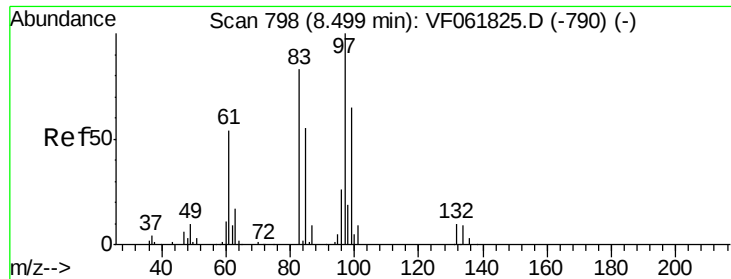
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 20.646 ug/l
RT: 7.29 min Scan# 675
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 75 Resp: 86507
Ion Ratio Lower Upper
75 100
77 30.3 26.3 39.5
39 51.2 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 22.105 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

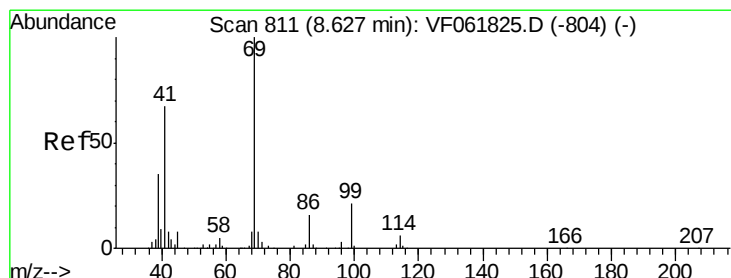
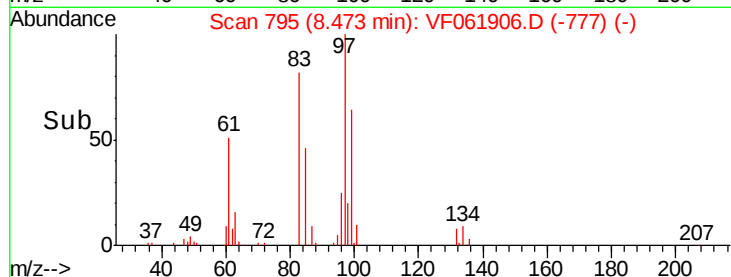
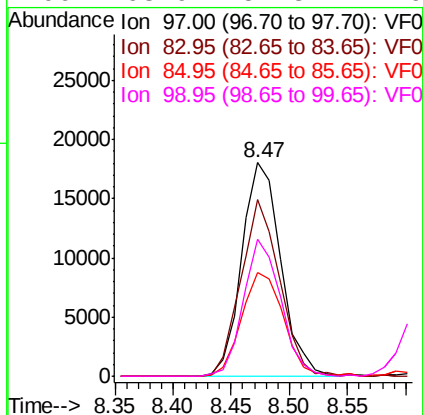
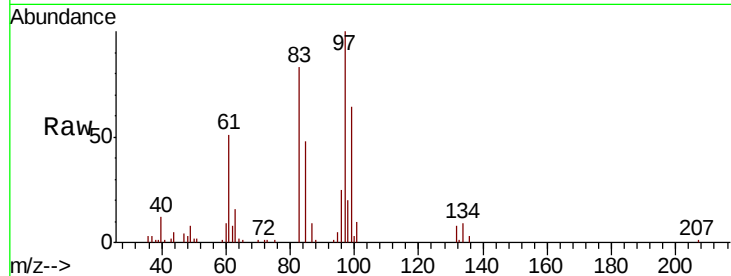
ClientSampleId :

VF0312SBS01

Tgt Ion:	97	Resp:	41936
Ion	Ratio	Lower	Upper
97	100		
83	82.7	66.5	99.7
85	48.5	44.2	66.2
99	63.9	51.8	77.6

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3/13/2019 4:41:29 PM



#56

Ethyl methacrylate

Concen: 20.843 ug/l

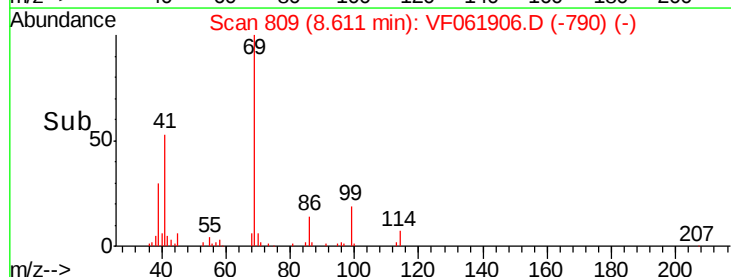
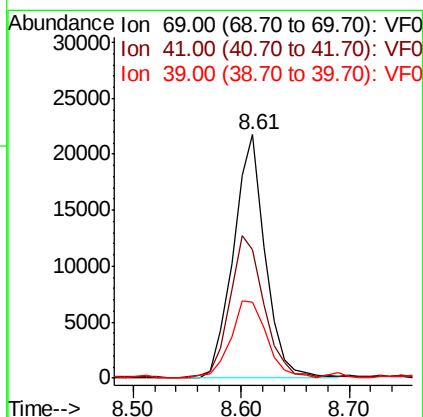
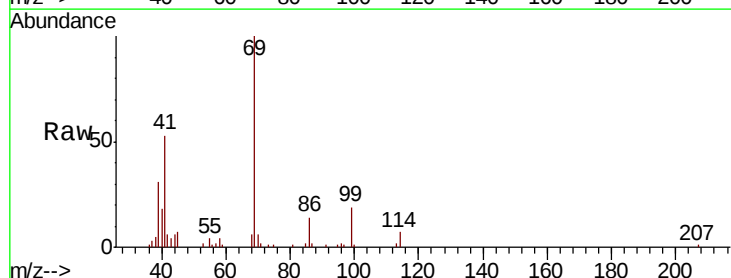
RT: 8.61 min Scan# 809

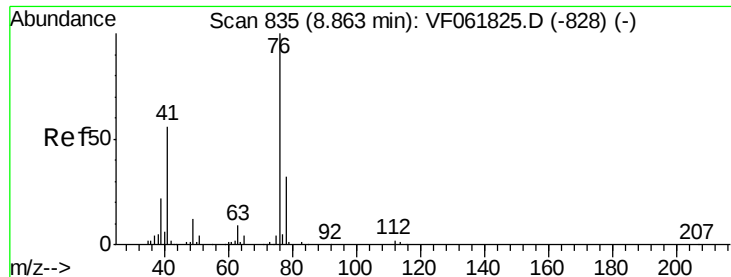
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	69	Resp:	44564
Ion	Ratio	Lower	Upper
69	100		
41	53.0	53.9	80.9#
39	30.9	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.527 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 76 Resp: 66789

Ion Ratio Lower Upper

76 100

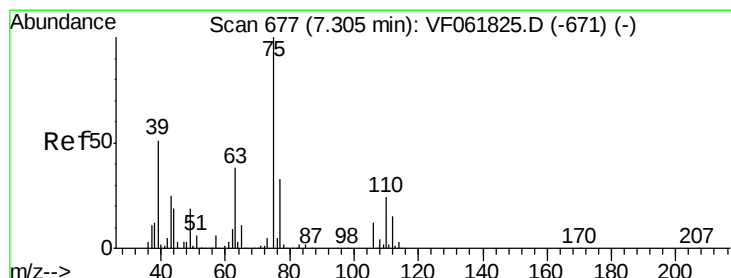
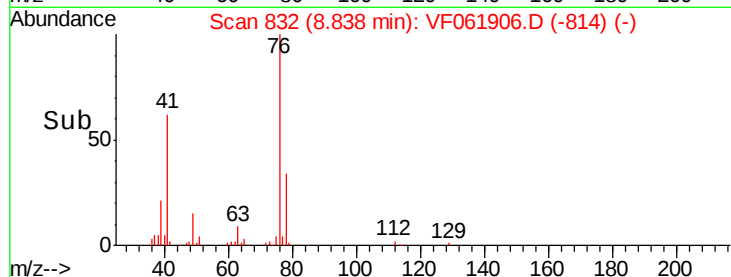
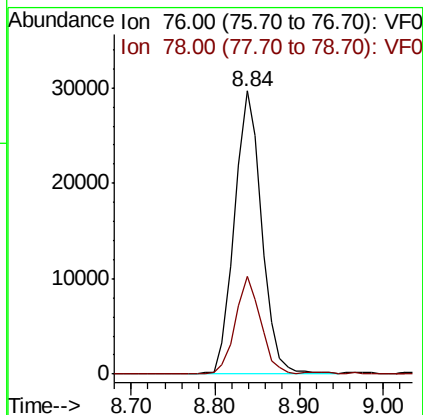
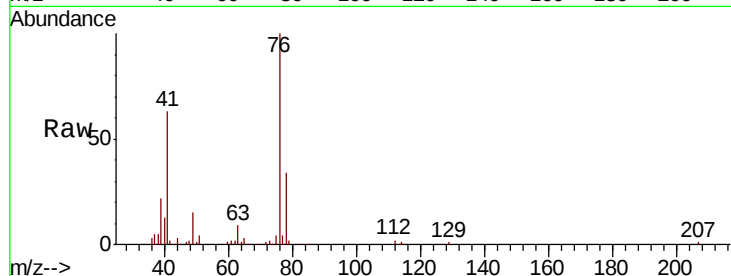
78 34.4 25.4 38.2

Manual Integrations

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3/13/2019 4:41:29 PM



#58

2-Chloroethyl Vinyl ether

Concen: 108.207 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061906.D

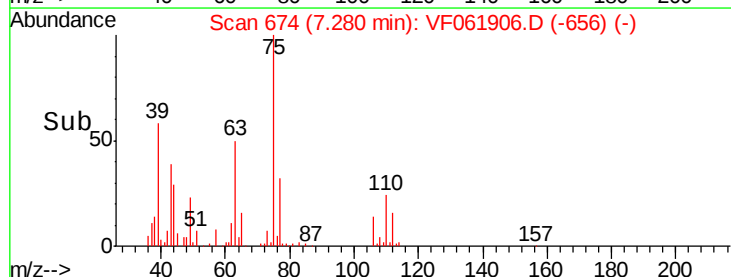
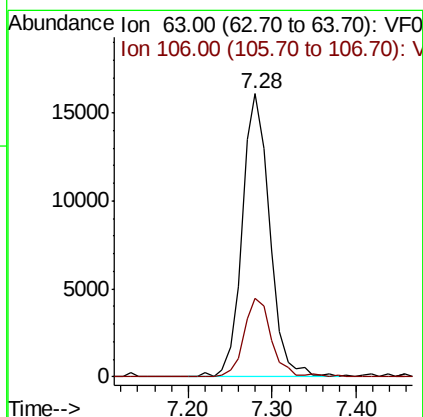
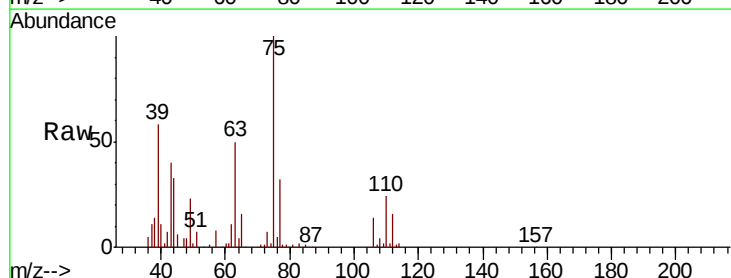
Acq: 12 Mar 2019 15:43

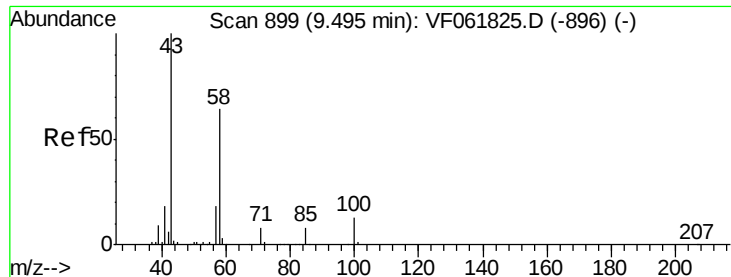
Tgt Ion: 63 Resp: 36598

Ion Ratio Lower Upper

63 100

106 27.8 24.3 36.5





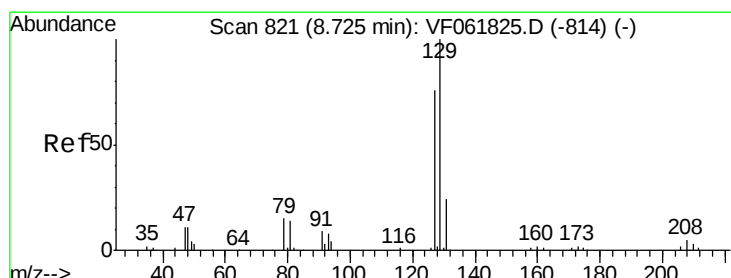
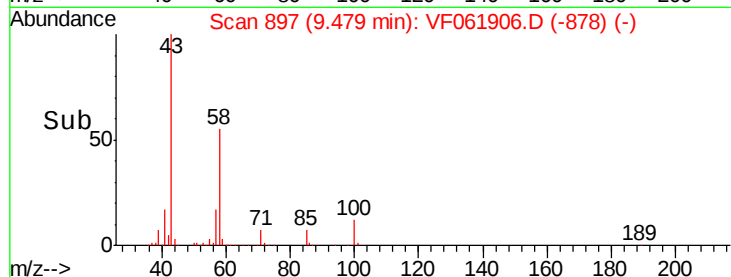
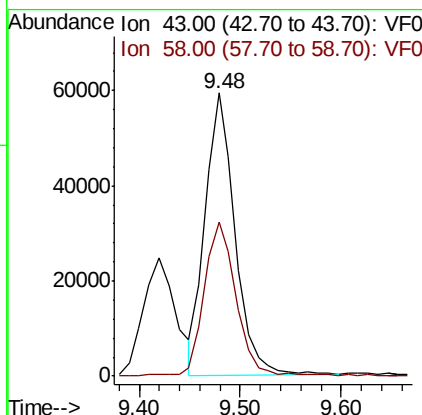
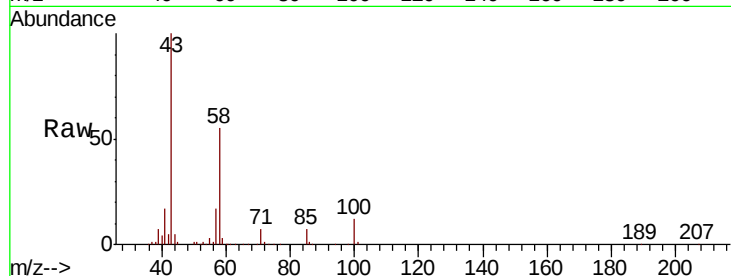
#59
2-Hexanone
Concen: 111.660 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 43 Resp: 122656
Ion Ratio Lower Upper
43 100
58 54.6 28.8 86.4

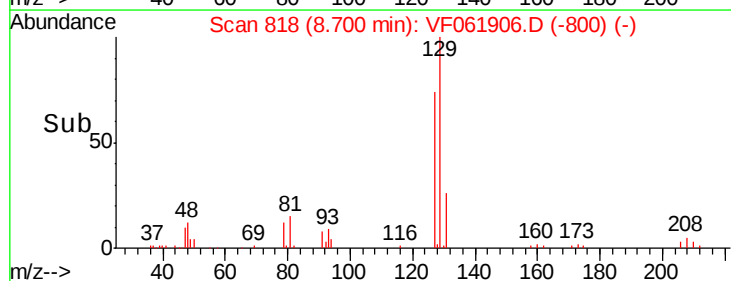
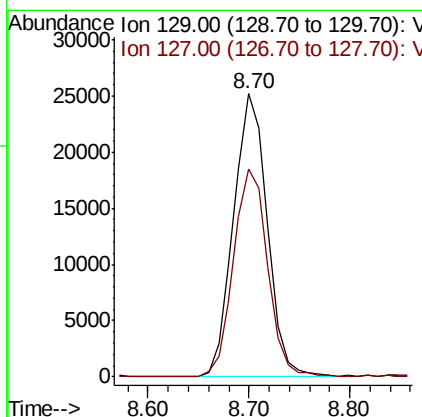
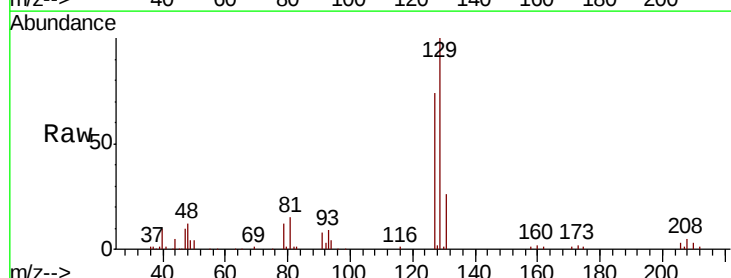
Manual Integrations
APPROVED

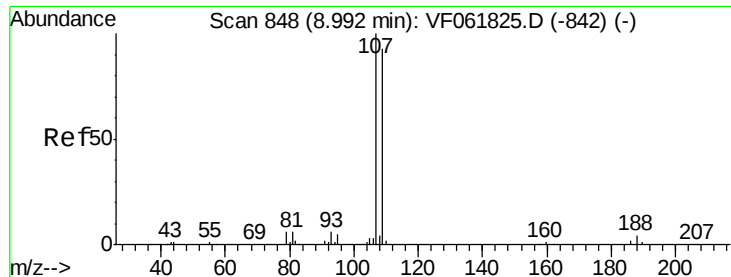
MMDadoda
3/13/2019 4:41:29 PM



#60
Dibromochloromethane
Concen: 21.736 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 129 Resp: 58773
Ion Ratio Lower Upper
129 100
127 73.6 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.204 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 107 Resp: 44237

Ion Ratio Lower Upper

107 100

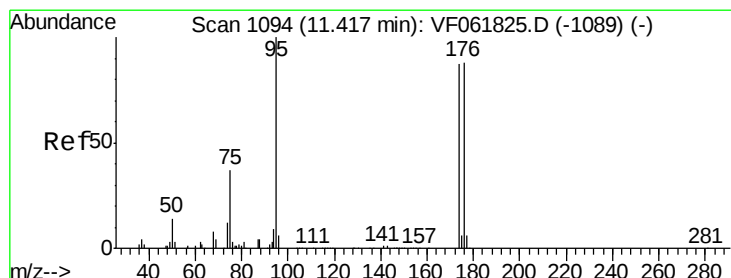
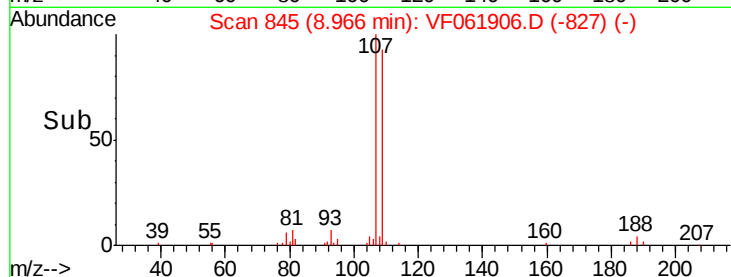
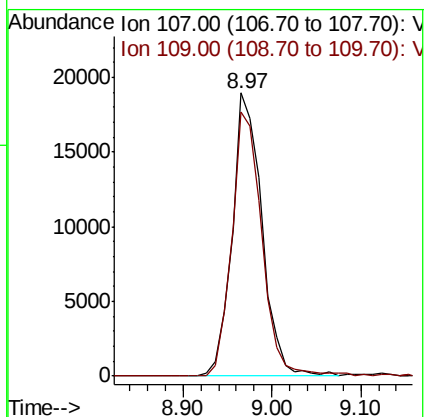
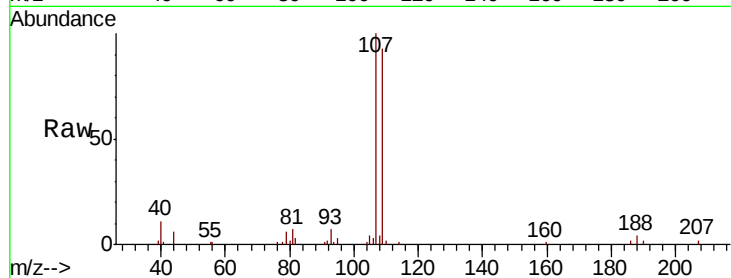
109 93.5 74.6 112.0

Manual Integrations

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MMDadoda

3/13/2019 4:41:29 PM



#62

4-Bromofluorobenzene

Concen: 55.446 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

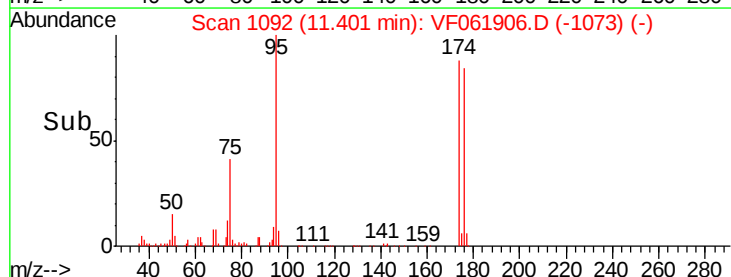
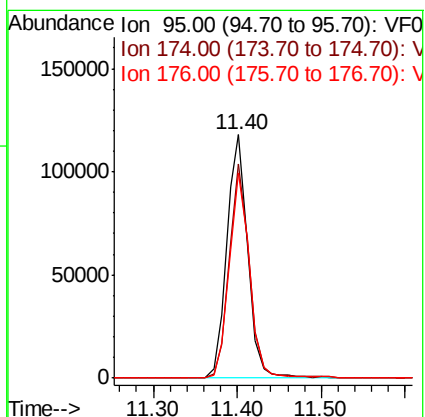
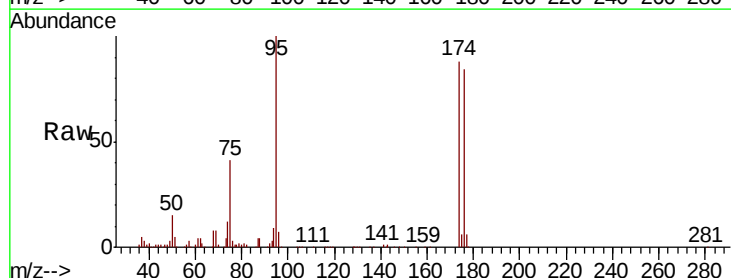
Tgt Ion: 95 Resp: 203090

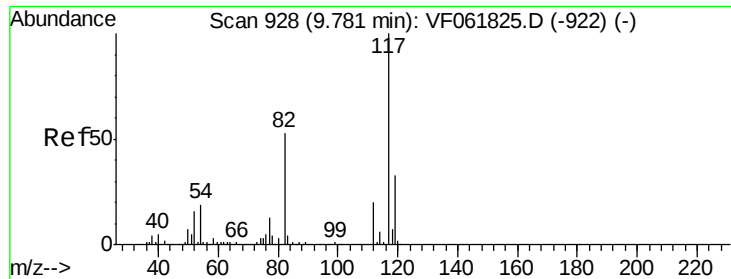
Ion Ratio Lower Upper

95 100

174 87.9 0.0 174.0

176 84.0 0.0 175.2





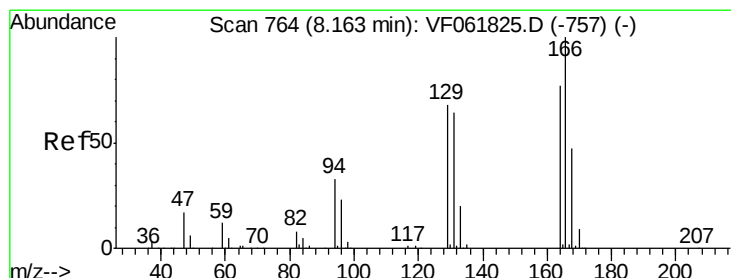
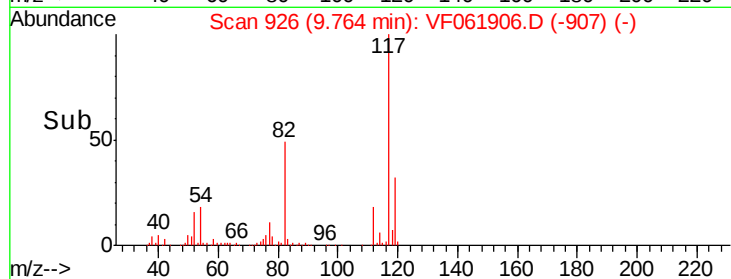
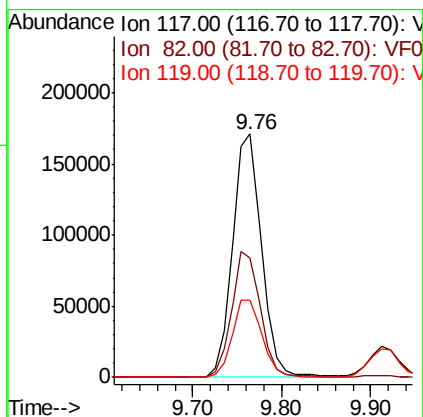
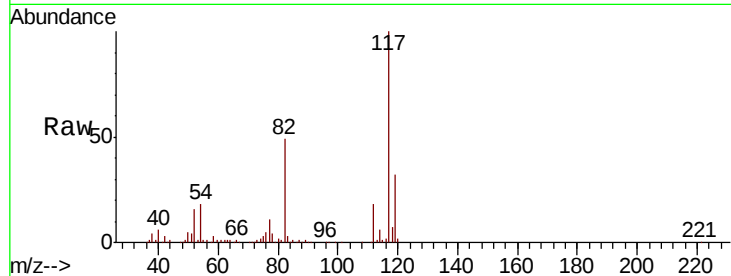
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	390695		
82	49.2	42.6	63.8	
119	31.9	26.0	39.0	

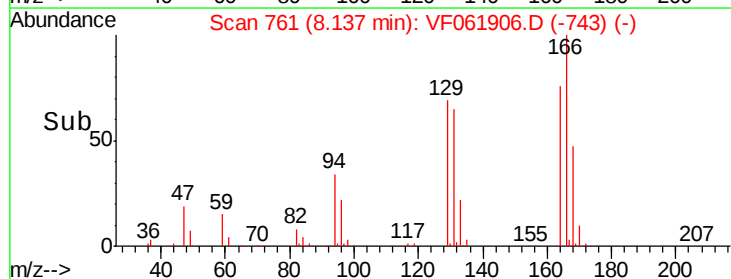
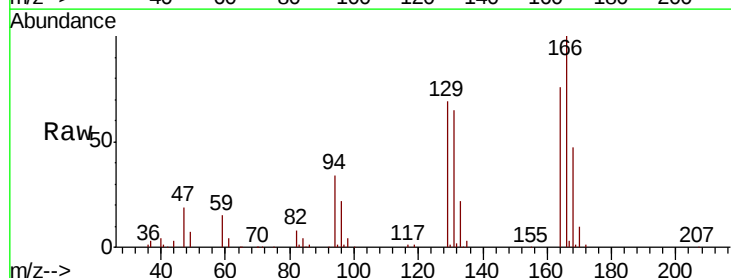
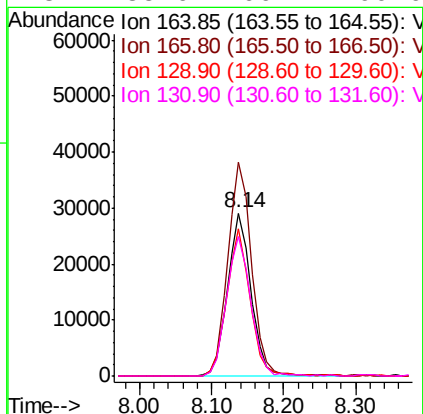
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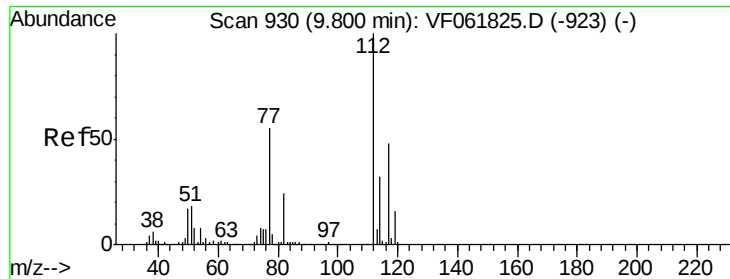
MMDadoda
3/13/2019 4:41:29 PM



#64
Tetrachloroethene
Concen: 21.982 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	65991		
166	131.2	103.4	155.0	
129	90.8	69.9	104.9	
131	85.6	66.4	99.6	





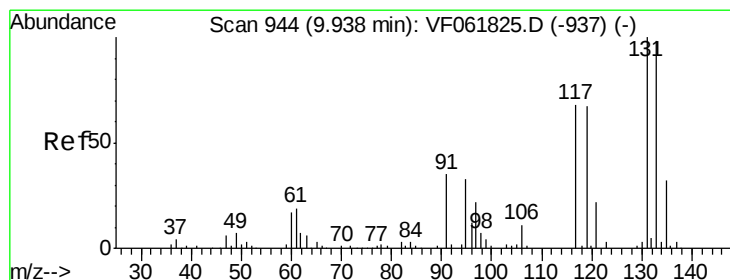
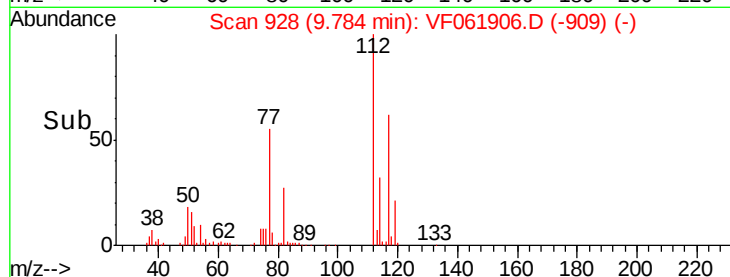
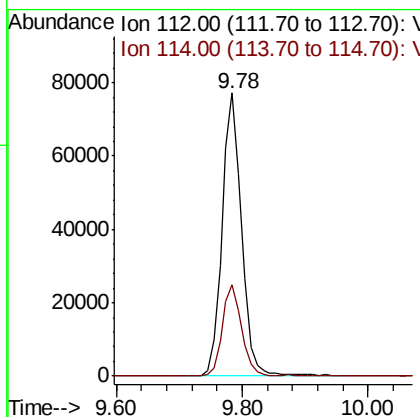
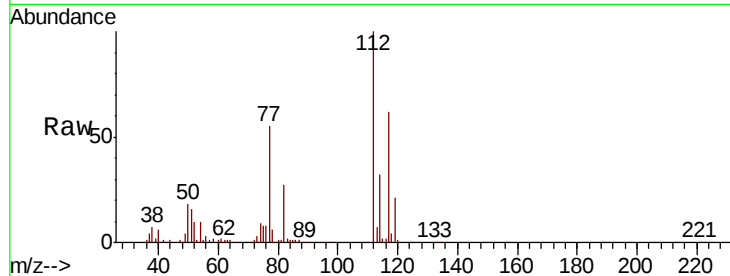
#65
Chlorobenzene
Concen: 22.160 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion:112 Resp: 166337
Ion Ratio Lower Upper
112 100
114 32.5 25.5 38.3

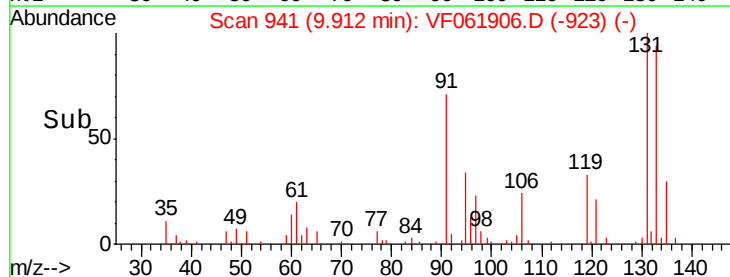
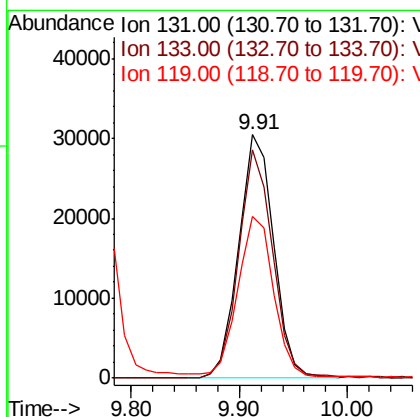
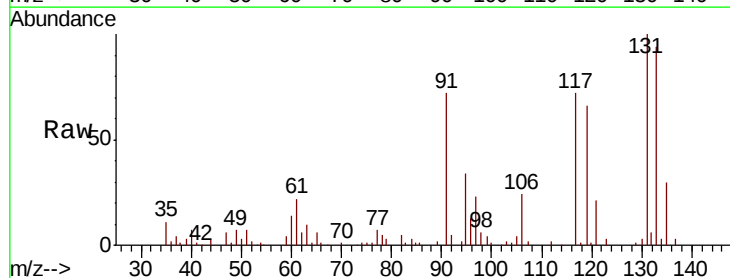
Manual Integrations
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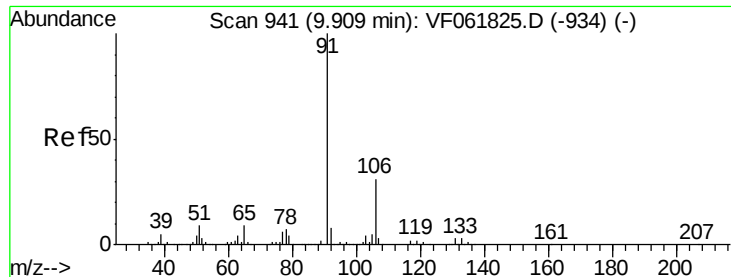
MMDadoda
3/13/2019 4:41:29 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.614 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:131 Resp: 68674
Ion Ratio Lower Upper
131 100
133 93.9 48.9 146.7
119 66.5 33.6 100.8





#67

Ethyl Benzene

Concen: 23.511 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 91 Resp: 292505

Ion Ratio Lower Upper

91 100

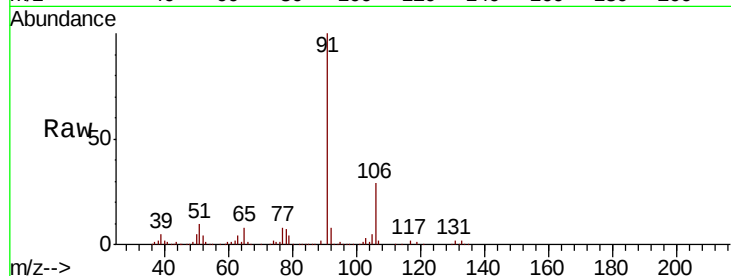
106 29.3 25.0 37.4

Manual Integrations

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3/13/2019 4:41:29 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

200000

150000

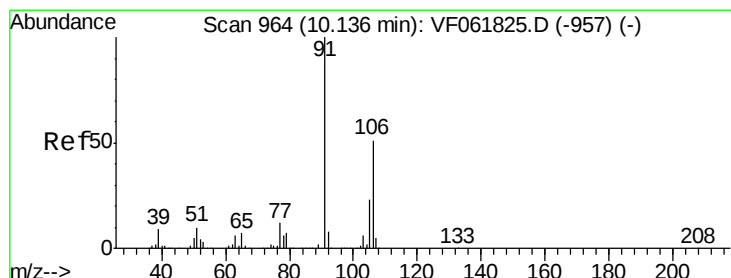
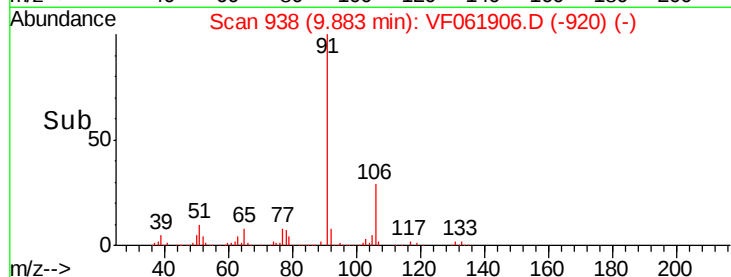
100000

50000

0

9.88

Time-->



#68

m/p-Xylenes

Concen: 45.470 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061906.D

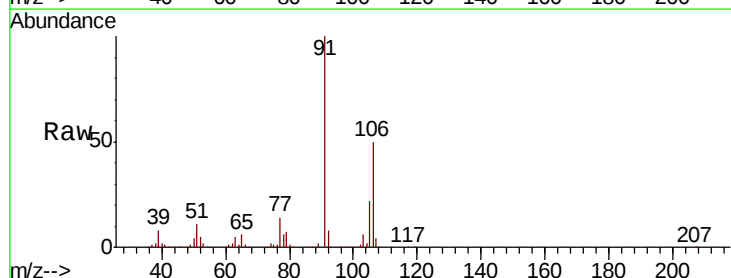
Acq: 12 Mar 2019 15:43

Tgt Ion: 106 Resp: 216713

Ion Ratio Lower Upper

106 100

91 199.0 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

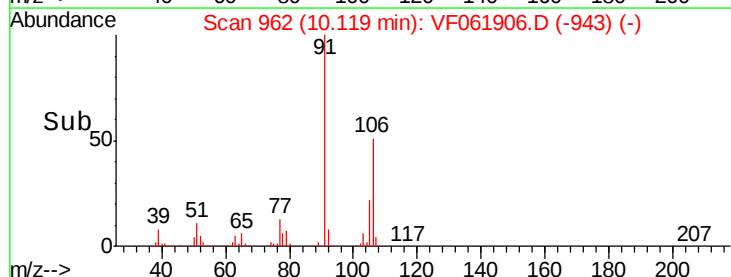
100000

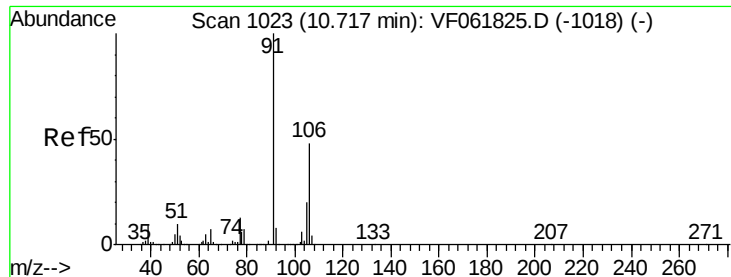
50000

0

10.12

Time-->





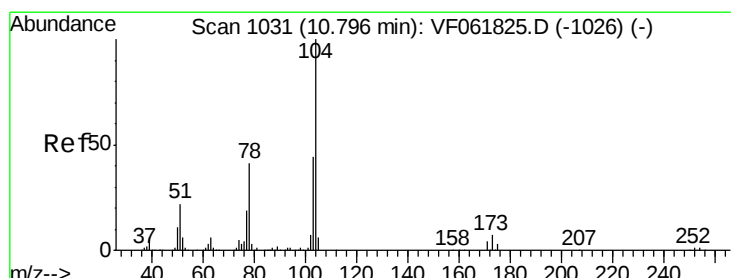
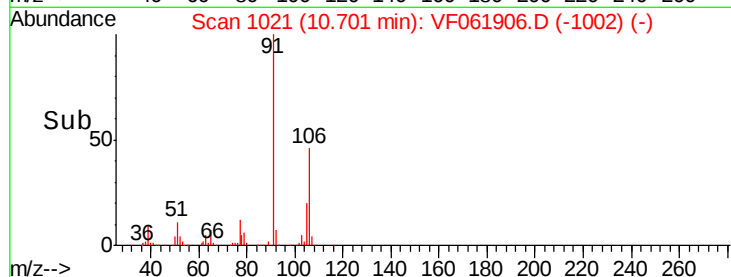
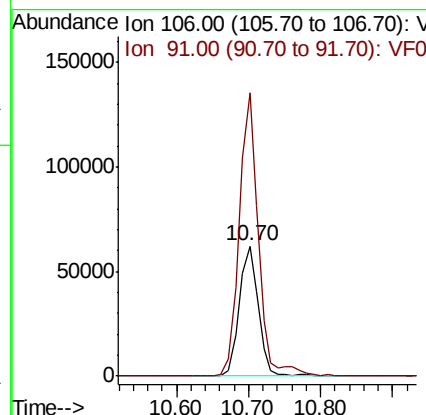
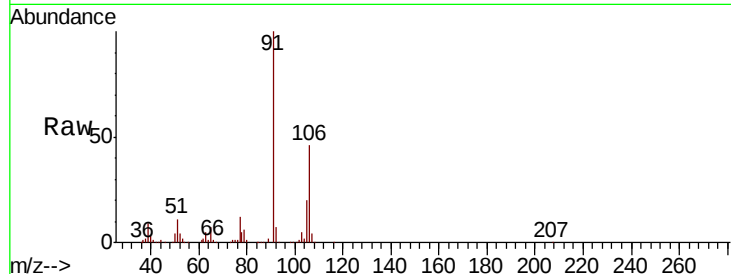
#69
o-Xylene
Concen: 22.760 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion:106 Resp: 116804
Ion Ratio Lower Upper
106 100
91 218.1 103.5 310.3

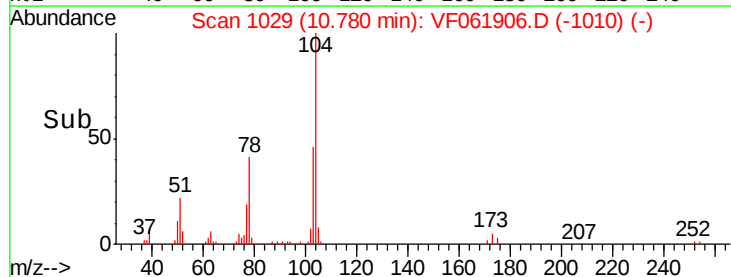
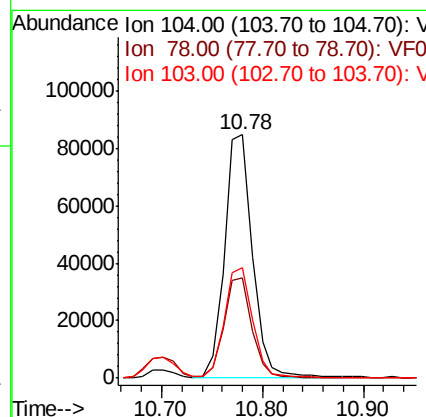
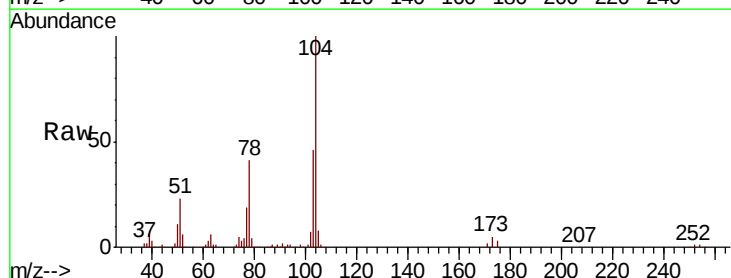
Manual Integrations
APPROVED

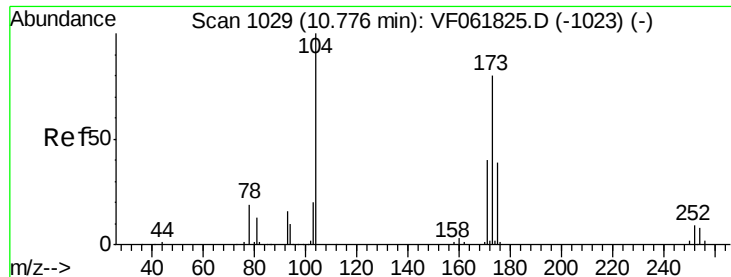
MMDadoda
3/13/2019 4:41:29 PM



#70
Styrene
Concen: 22.563 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion:104 Resp: 162962
Ion Ratio Lower Upper
104 100
78 41.2 33.3 49.9
103 45.6 35.4 53.0





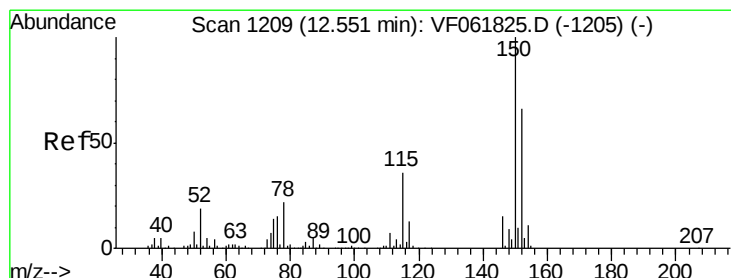
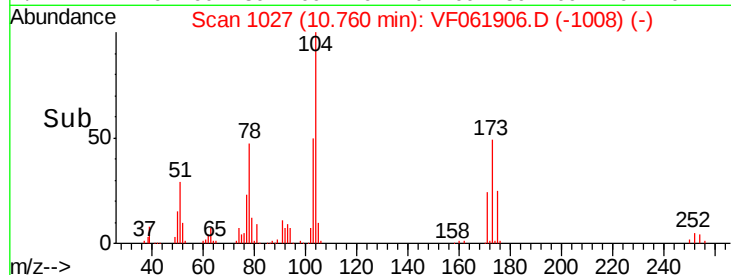
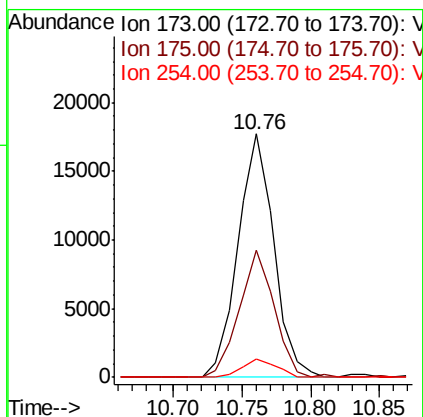
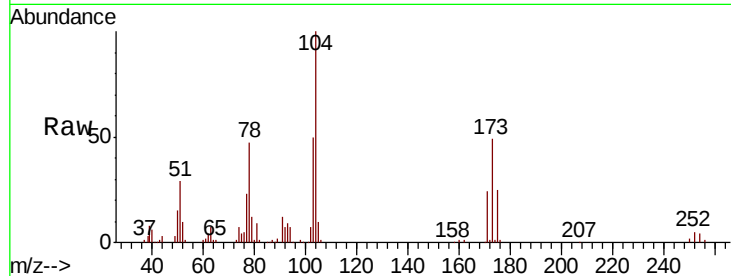
#71
Bromoform
Concen: 20.890 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	52.0	24.5	73.5
254	7.6	8.0	12.0

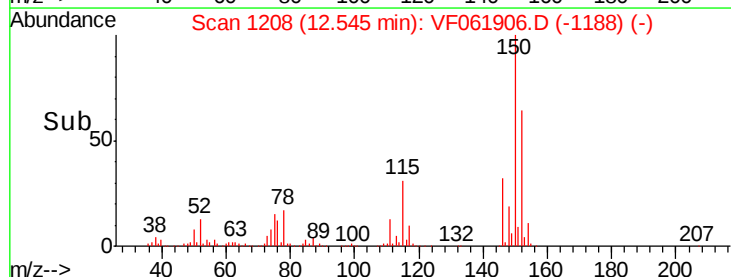
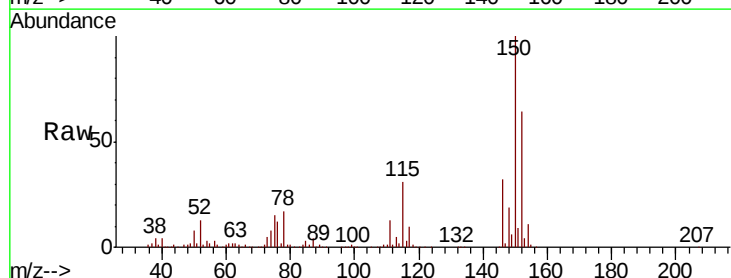
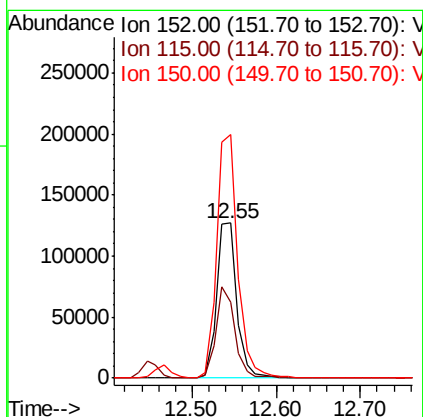
Manual Integrations
APPROVED

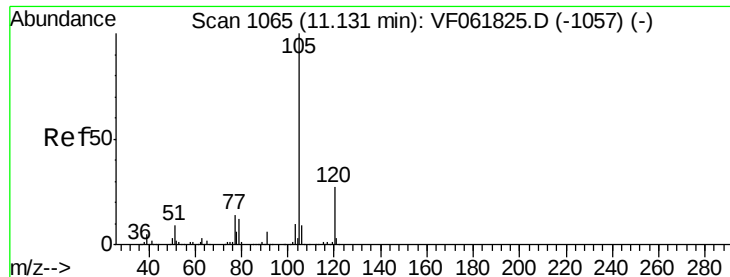
MMDadoda
3/13/2019 4:41:29 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.0	27.7	83.1
150	157.0	0.0	304.2





#73

Isopropylbenzene

Concen: 22.468 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 105 Resp: 329486

Ion Ratio Lower Upper

105 100

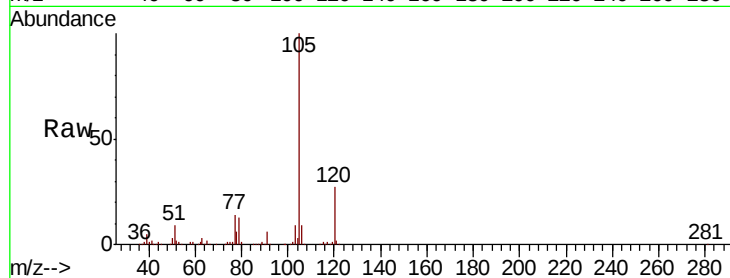
120 26.8 13.7 41.0

Manual Integrations

APPROVED

MMDadoda

3/13/2019 4:41:29 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

50000

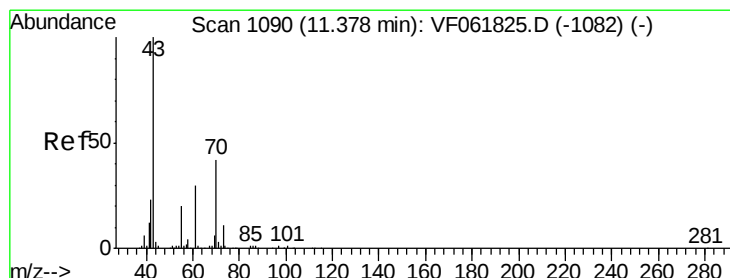
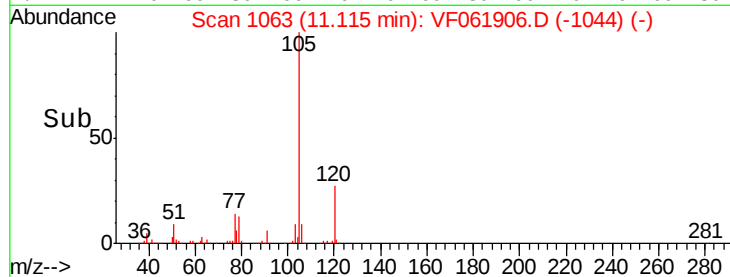
0

Time-->

11.00

11.10

11.20



#74

N-ethyl acetate

Concen: 20.757 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion: 43 Resp: 70076

Ion Ratio Lower Upper

43 100

70 40.5 33.4 50.0

55 24.3 16.3 24.5

61 30.9 24.0 36.0

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

40000

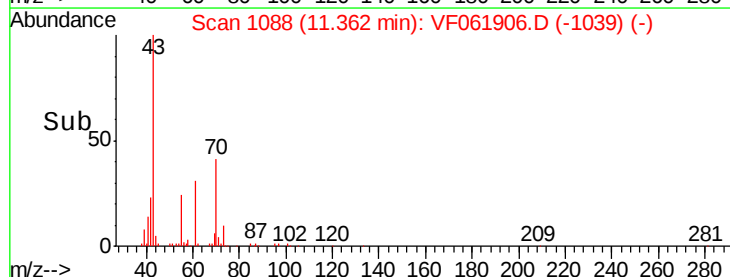
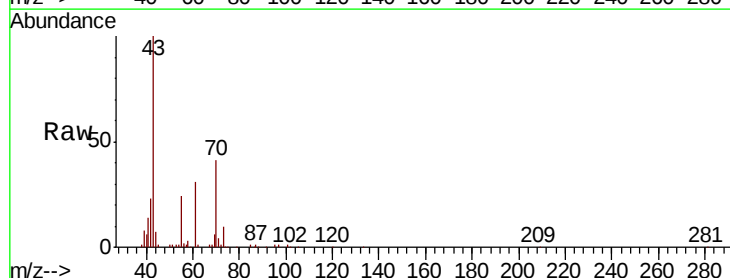
20000

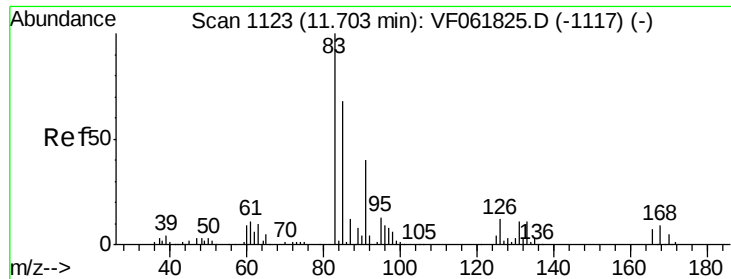
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Time-->

11.30

11.40





#75

1,1,2,2-Tetrachloroethane

Concen: 21.751 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

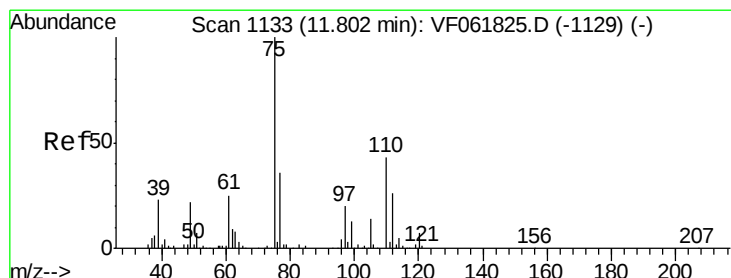
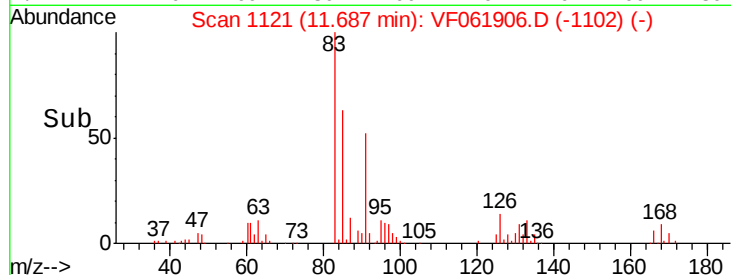
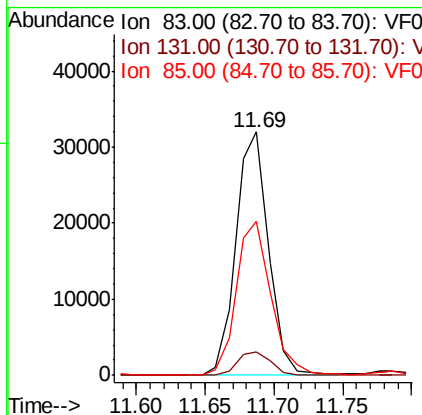
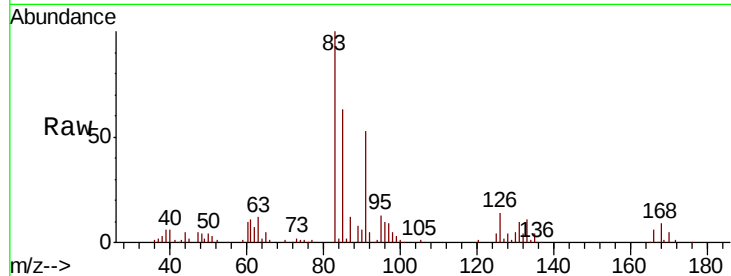
ClientSampleId :

VF0312SBS01

Tgt Ion:	83	Resp:	53016
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.5	16.7
85	63.2	34.2	102.6

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#76

1,2,3-Trichloropropane

Concen: 22.739 ug/l

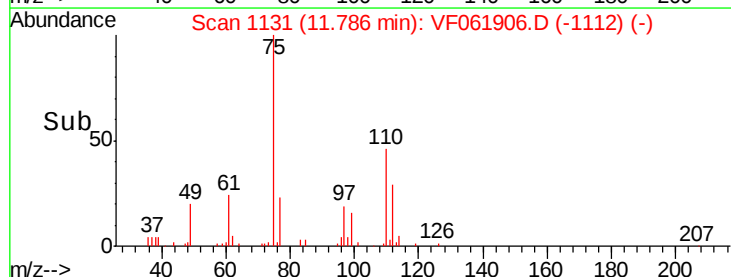
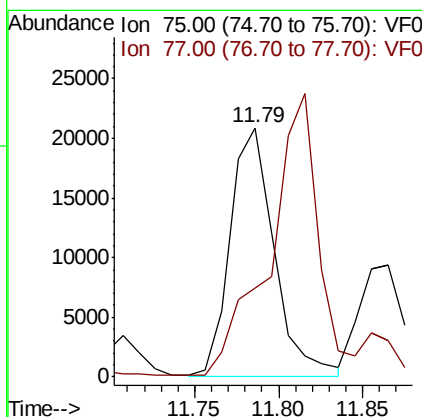
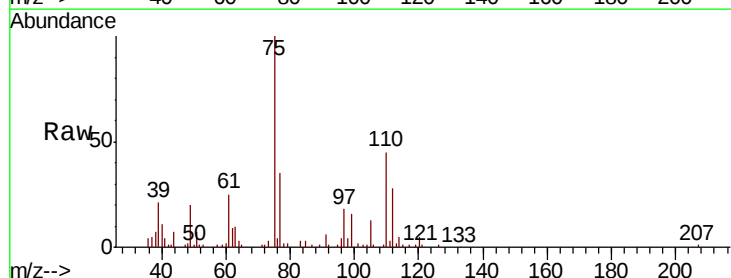
RT: 11.79 min Scan# 1131

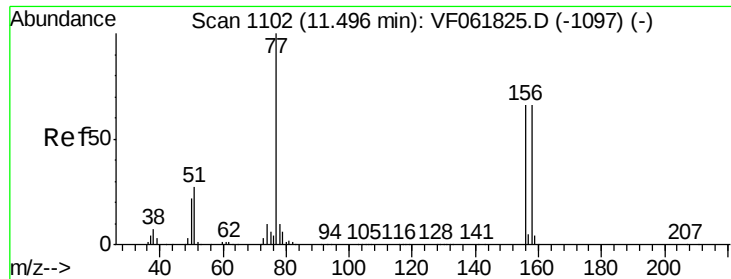
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	75	Resp:	37826
Ion	Ratio	Lower	Upper
75	100		
77	35.5	18.1	54.4





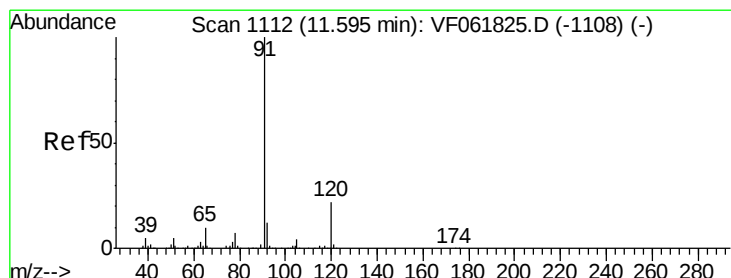
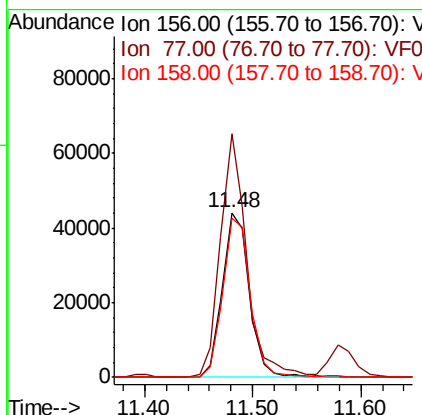
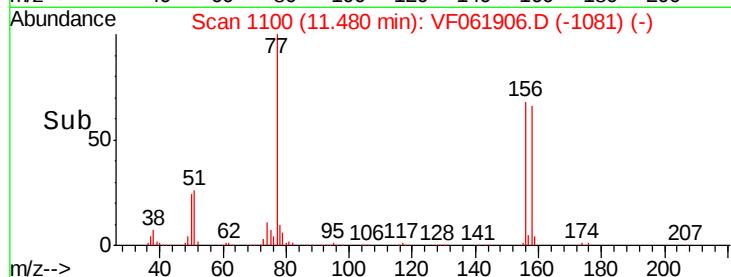
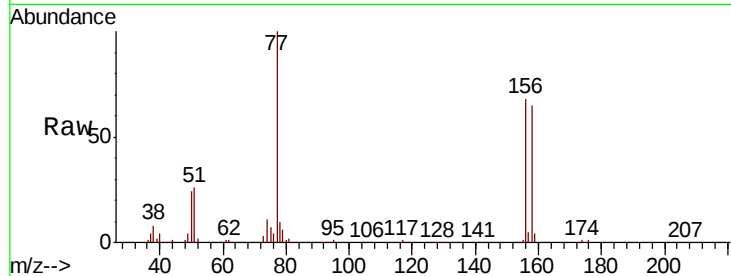
#77
Bromobenzene
Concen: 21.703 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 156 Resp: 76598
Ion Ratio Lower Upper
156 100
77 148.1 75.7 227.1
158 96.9 50.0 150.1

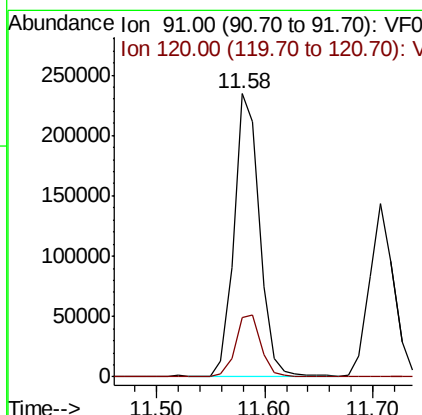
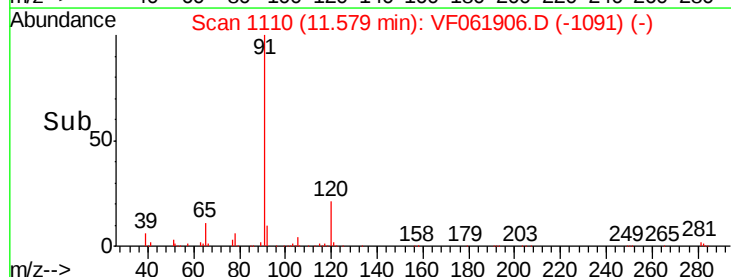
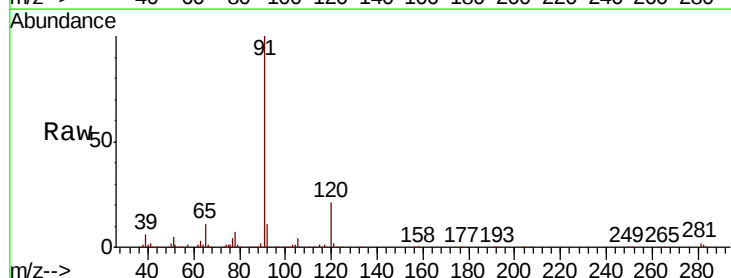
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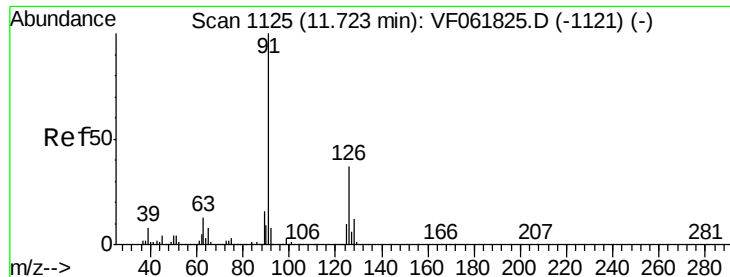
MMDadoda
3/13/2019 4:41:29 PM



#78
n-propylbenzene
Concen: 23.131 ug/l
RT: 11.58 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion: 91 Resp: 383072
Ion Ratio Lower Upper
91 100
120 20.9 11.1 33.1





#79

2-Chlorotoluene

Concen: 23.459 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 91 Resp: 222114

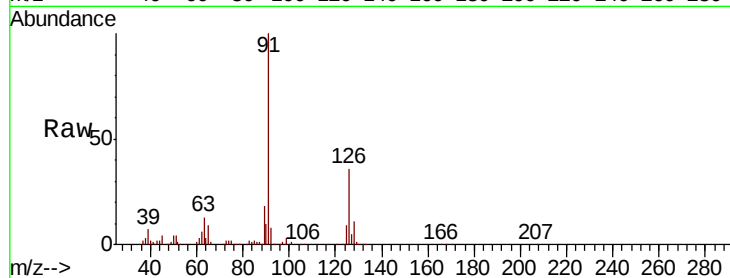
Ion Ratio Lower Upper

91 100

126 35.8 18.1 54.4

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

150000

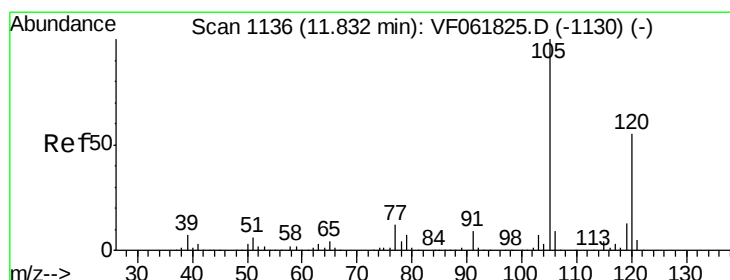
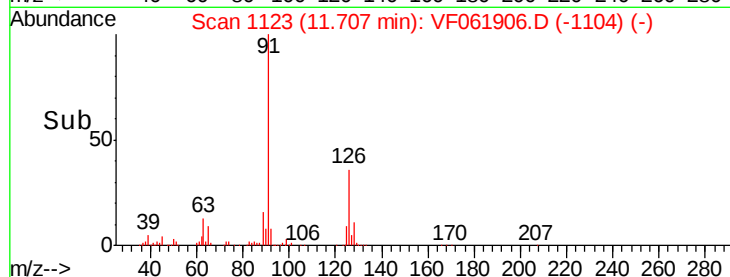
100000

50000

0

11.65 11.70 11.75 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 23.815 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061906.D

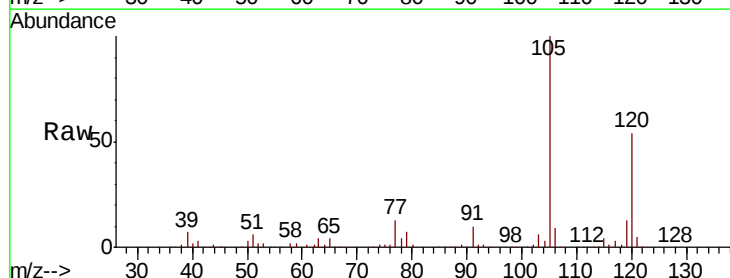
Acq: 12 Mar 2019 15:43

Tgt Ion: 105 Resp: 280406

Ion Ratio Lower Upper

105 100

120 53.9 27.4 82.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

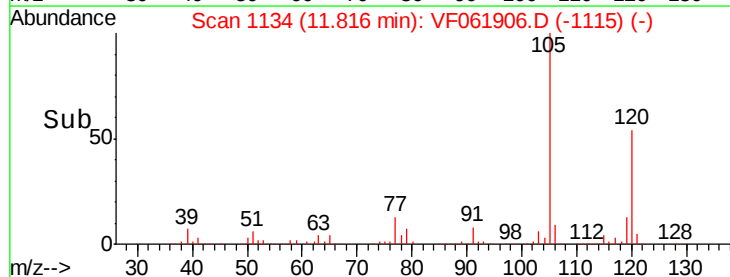
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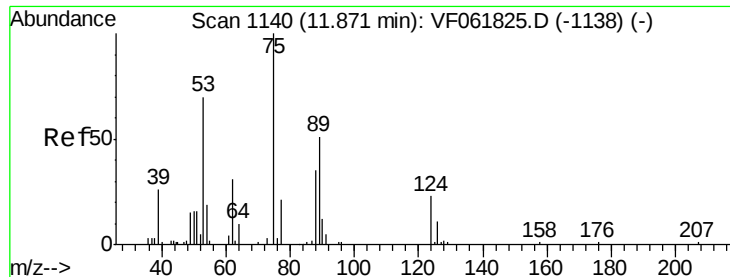
50000

0

11.70 11.80 11.90

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.329 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

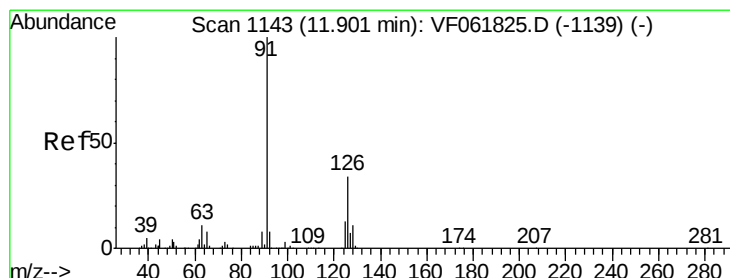
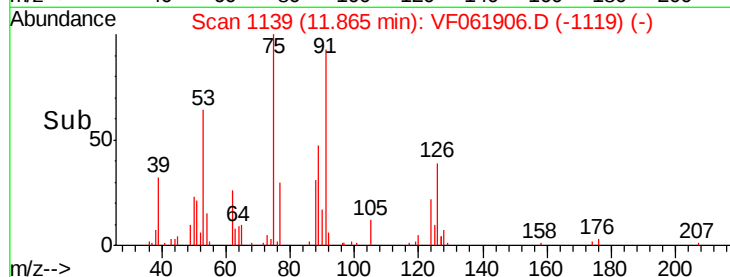
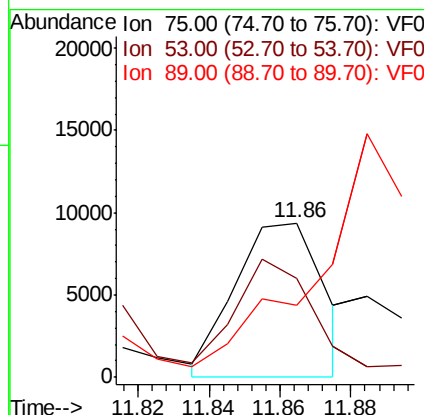
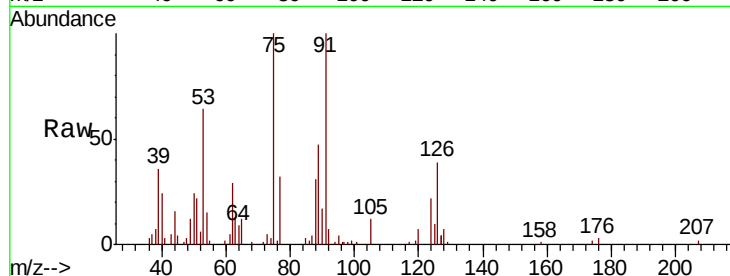
ClientSampleId :

VF0312SBS01

Tgt Ion:	75	Resp:	16224
Ion Ratio	Lower	Upper	
75	100		
53	64.0	58.6	88.0
89	47.0	41.4	62.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 22.736 ug/l

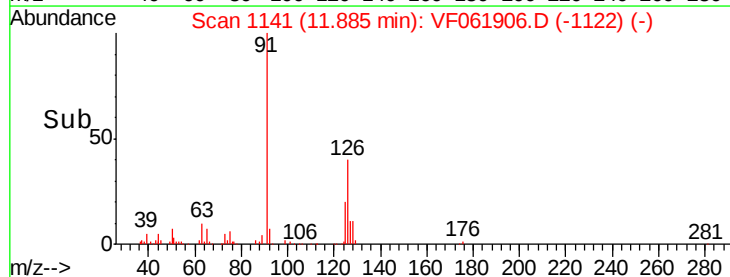
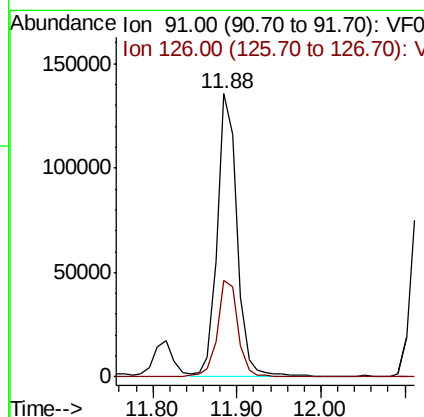
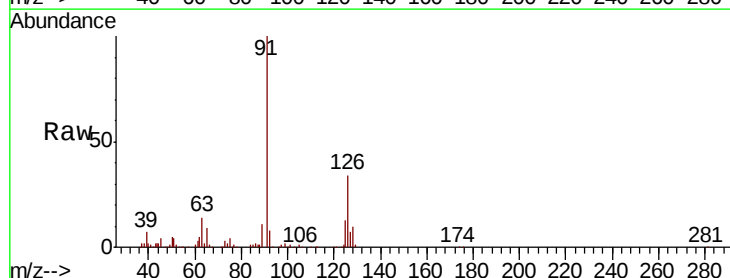
RT: 11.88 min Scan# 1141

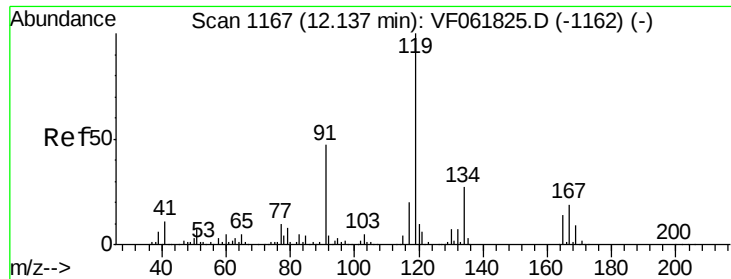
Delta R.T. -0.02 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	91	Resp:	220185
Ion Ratio	Lower	Upper	
91	100		
126	34.1	17.0	50.9





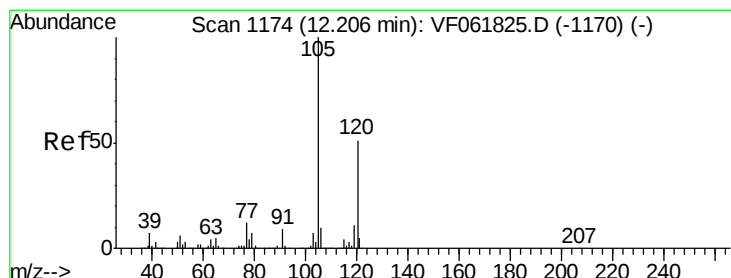
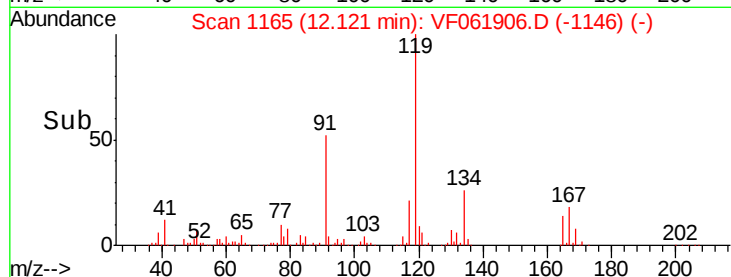
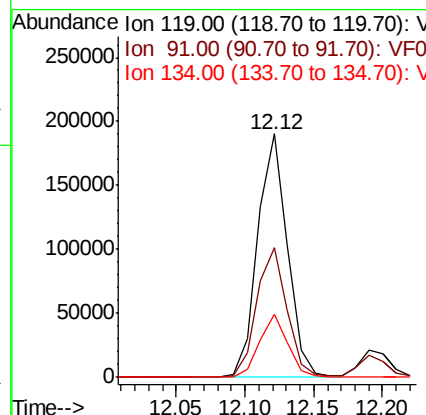
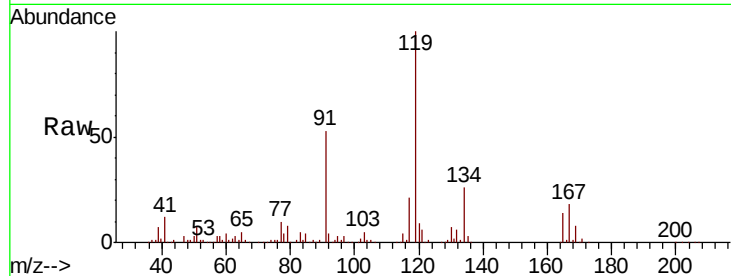
#83
 tert-Butylbenzene
 Concen: 23.155 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	289488		
91	53.5	23.5	70.5	
134	26.1	13.3	39.8	

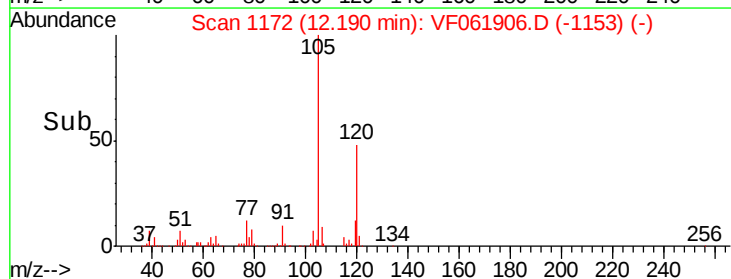
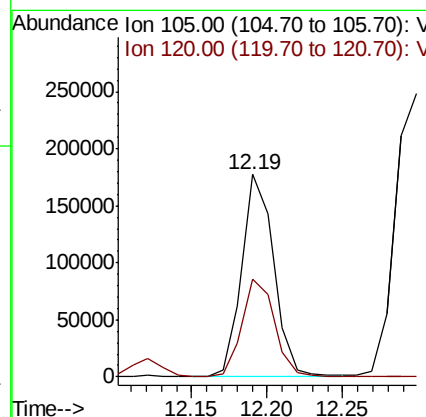
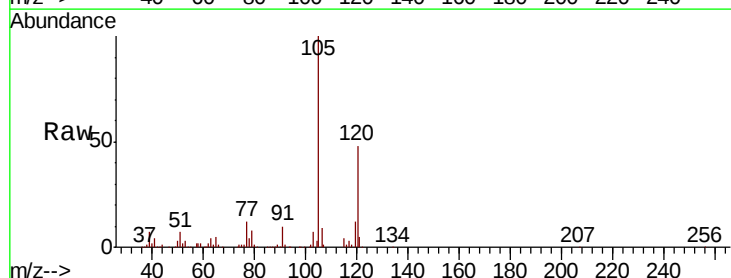
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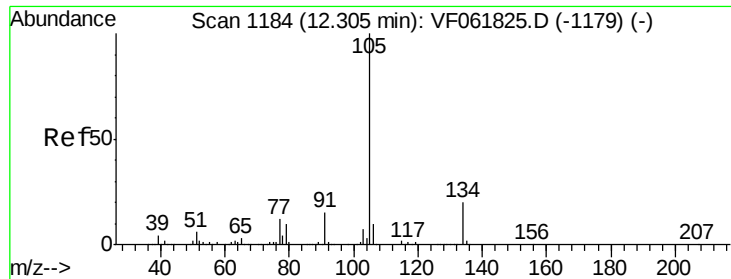
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.751 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	262603		
120	48.0	25.8	77.4	





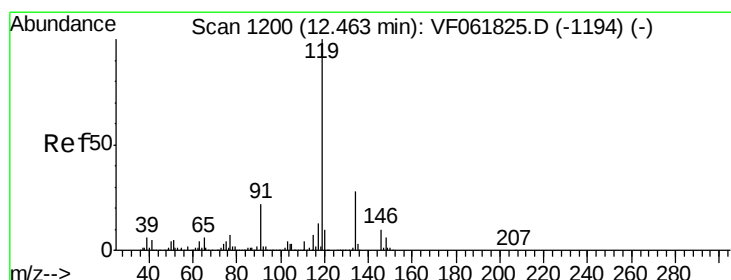
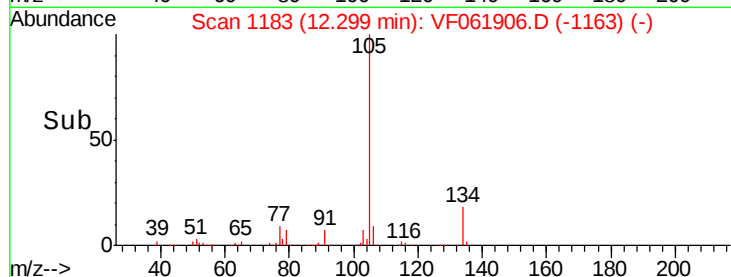
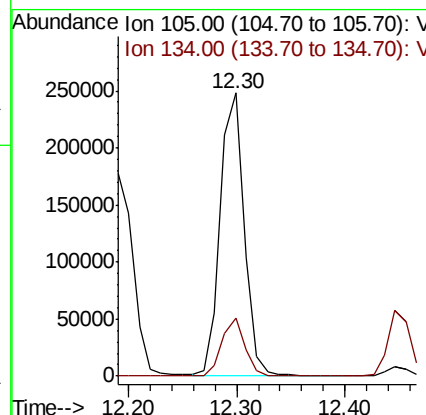
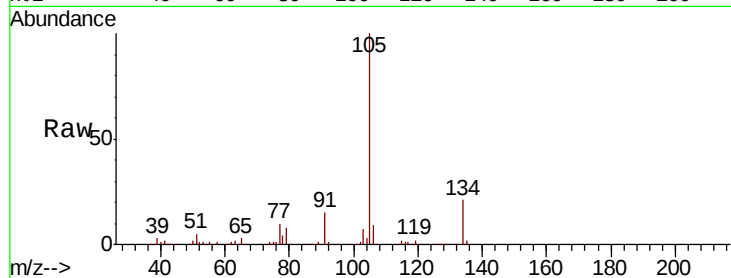
#85
 sec-Butylbenzene
 Concen: 23.526 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	382758		
134	20.5	9.8	29.5	

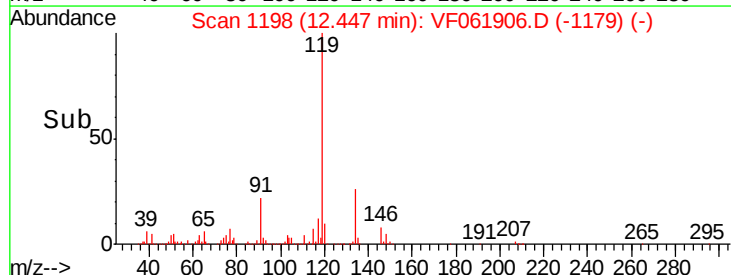
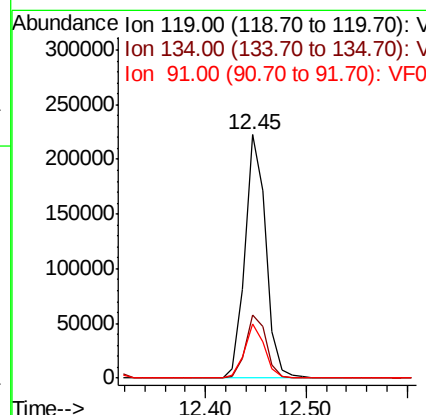
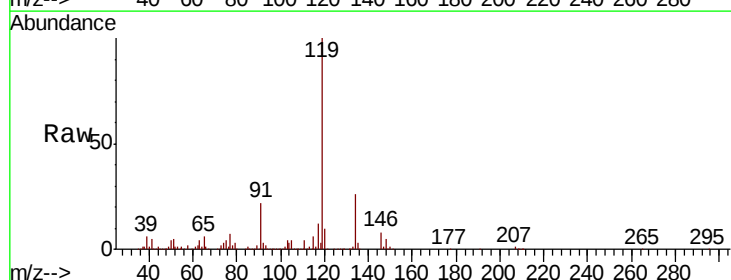
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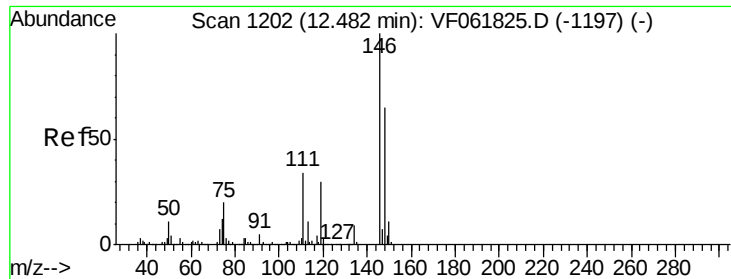
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#86
 p-Isopropyltoluene
 Concen: 23.194 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	320766		
134	25.8	14.0	42.0	
91	22.2	11.1	33.3	





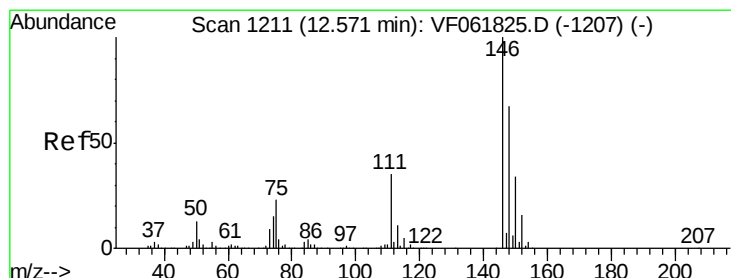
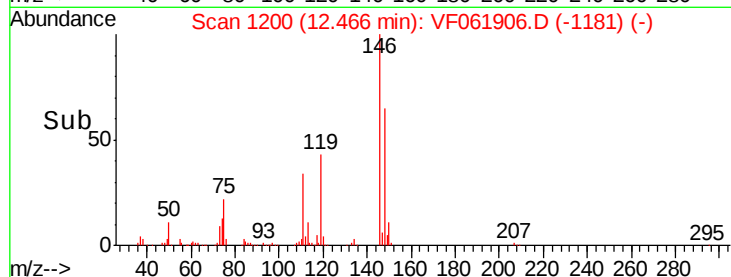
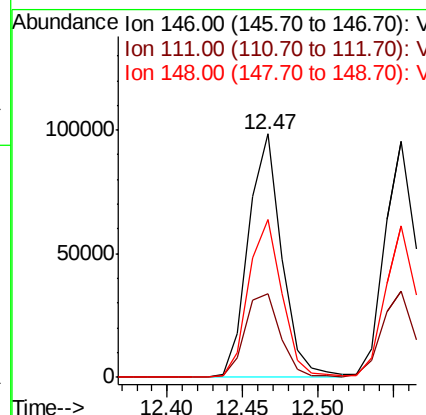
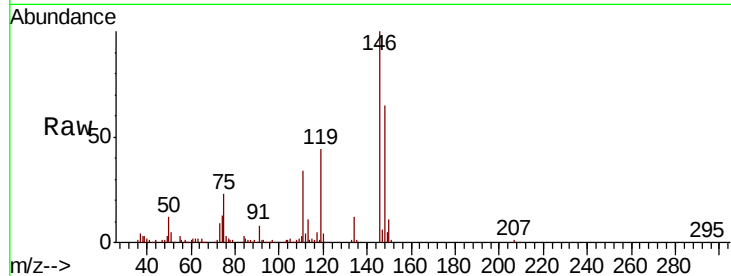
#87
 1,3-Dichlorobenzene
 Concen: 22.668 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampled :
 VF0312SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	151912		
111	34.3	17.0	51.0	
148	64.8	32.5	97.5	

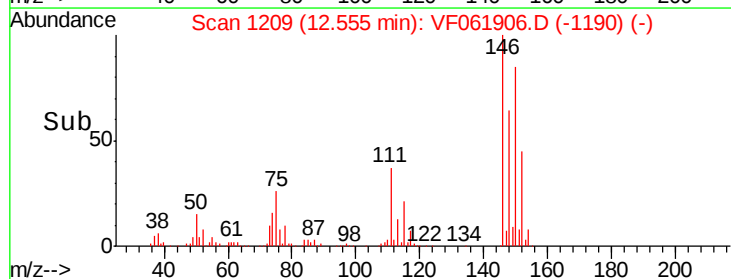
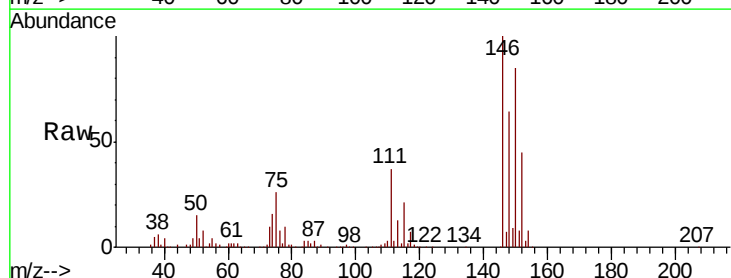
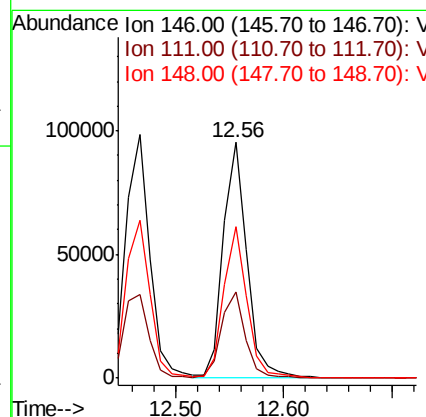
Manual Integrations
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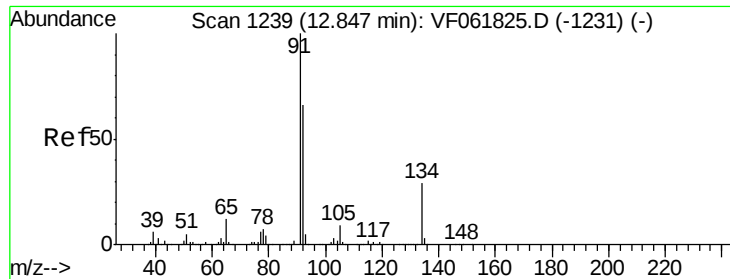
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#88
 1,4-Dichlorobenzene
 Concen: 22.414 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	144897		
111	36.6	17.6	52.9	
148	64.5	33.5	100.4	





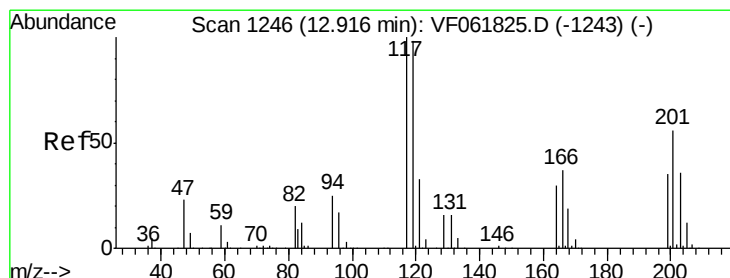
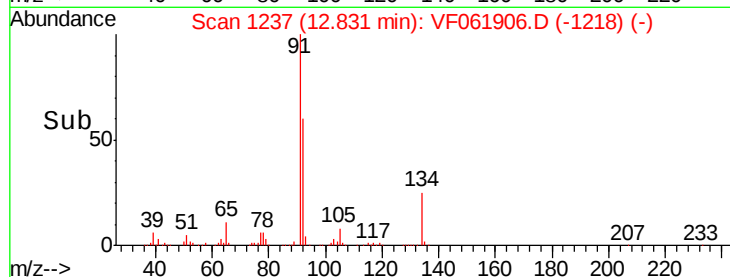
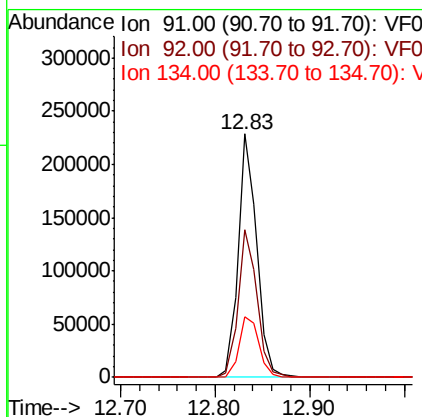
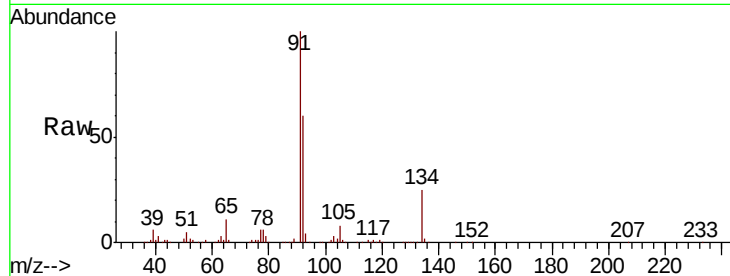
#89
n-Butylbenzene
Concen: 23.480 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	32.9	98.6
134	25.1	14.5	43.6

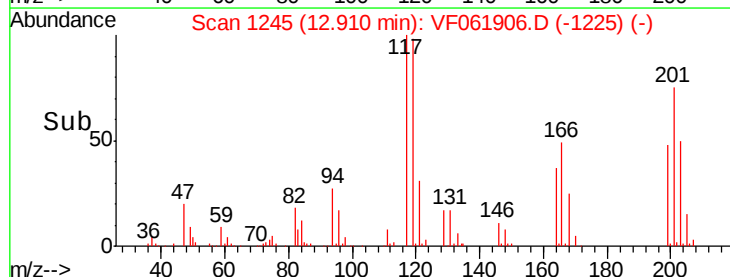
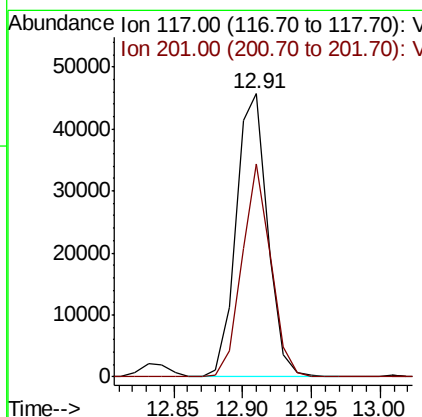
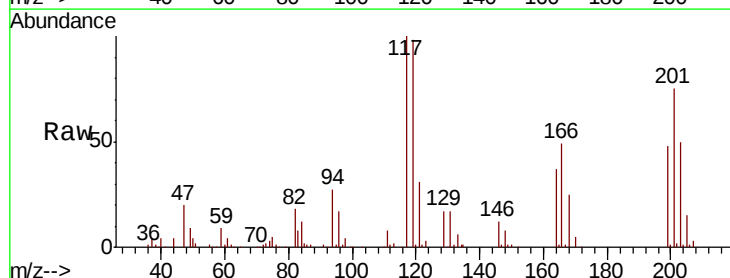
Manual Integrations
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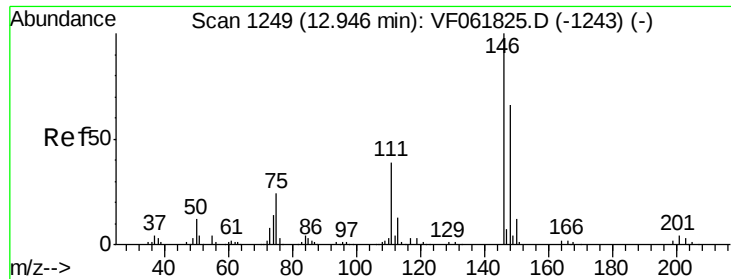
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#90
Hexachloroethane
Concen: 21.876 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061906.D
Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.1	27.8	83.4





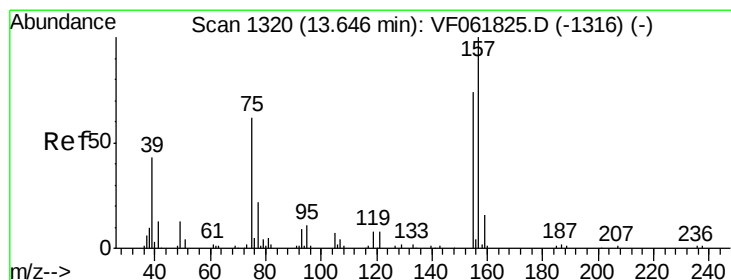
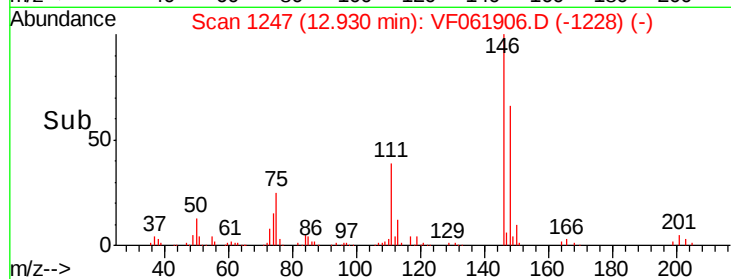
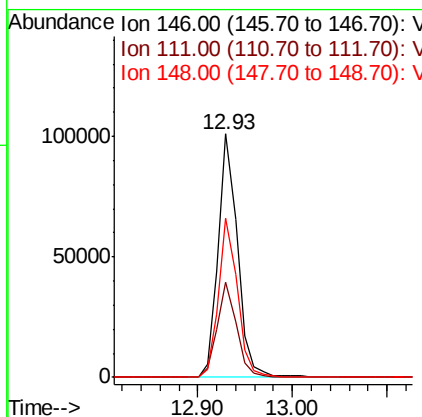
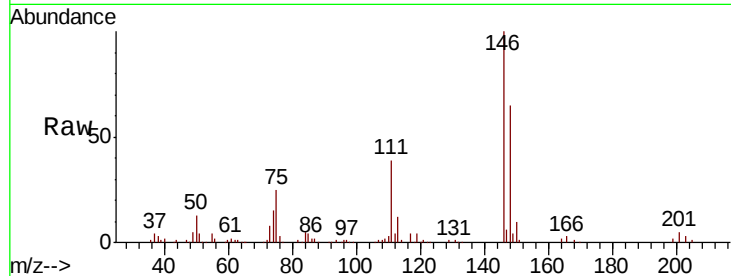
#91
 1,2-Dichlorobenzene
 Concen: 22.633 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampled :
 VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.4	58.4
148	65.4	33.0	98.9

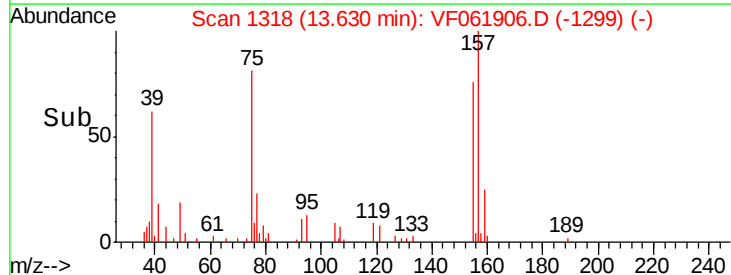
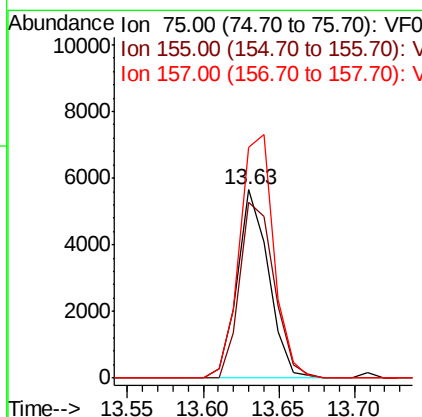
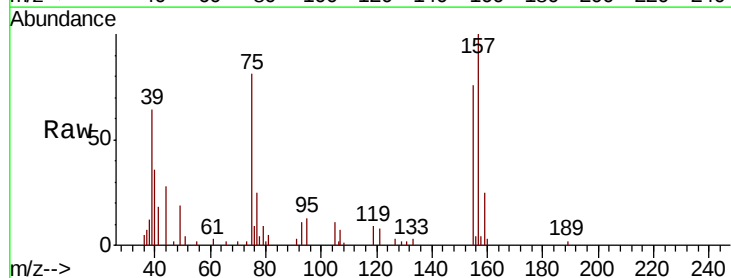
Manual Integrations
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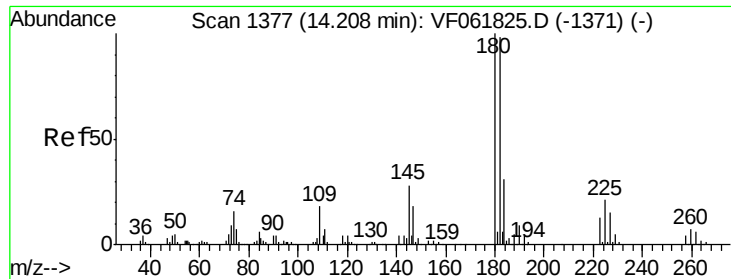
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.527 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.5	59.8	179.4
157	122.8	81.2	243.4





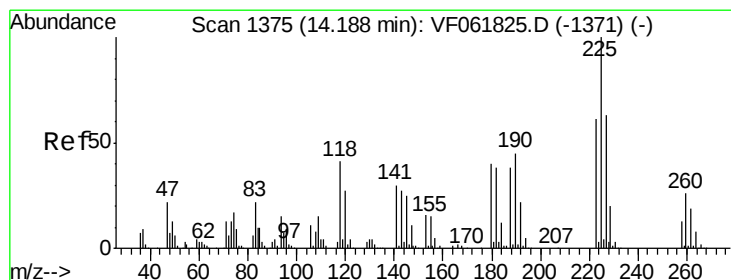
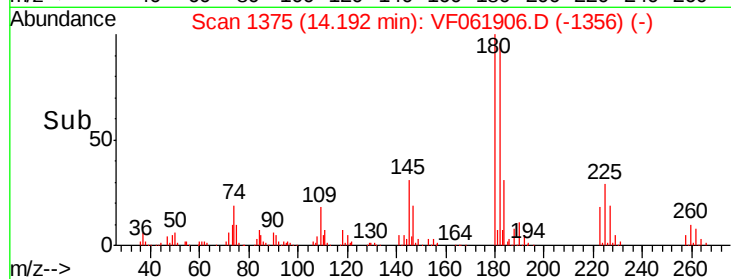
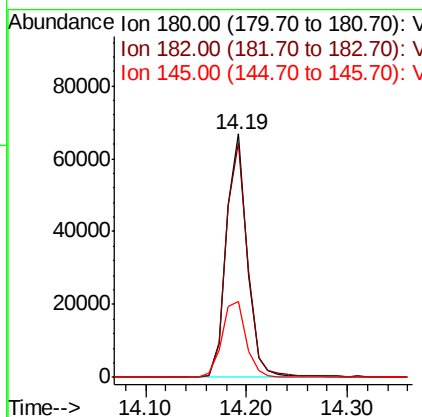
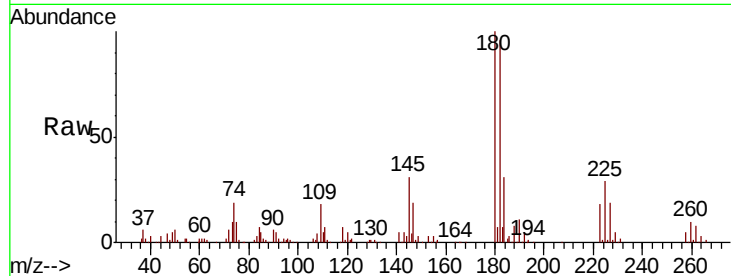
#93
 1,2,4-Trichlorobenzene
 Concen: 21.516 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	49.0	147.2
145	31.3	14.1	42.4

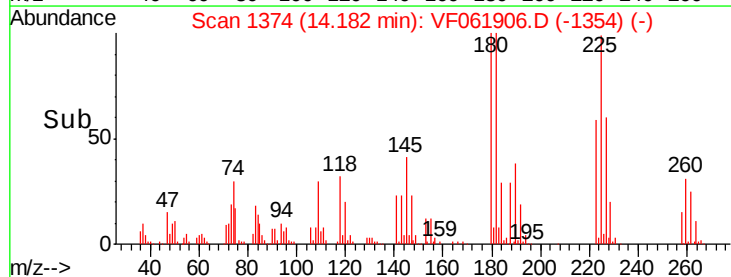
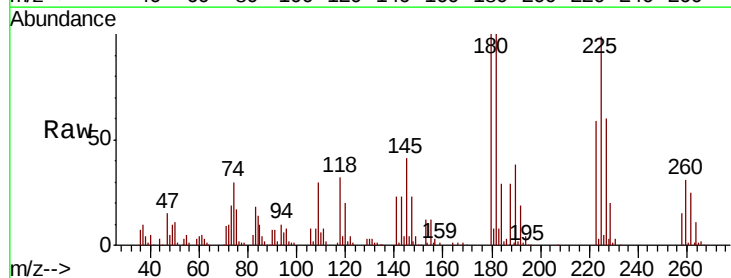
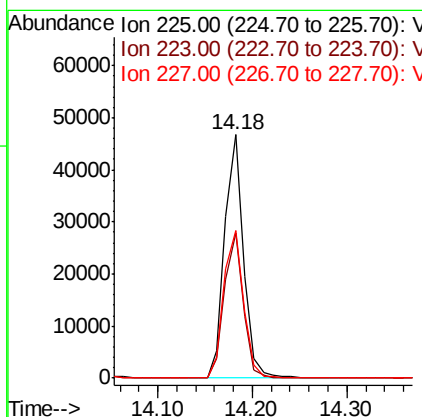
Manual Integrations
 APPROVED

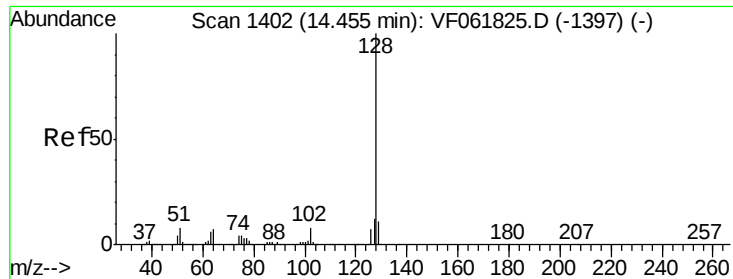
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 20.941 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061906.D
 Acq: 12 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.5	30.3	90.9
227	60.7	31.3	93.8





#95

Naphthalene

Concen: 19.454 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Instrument :

MSVOA_F

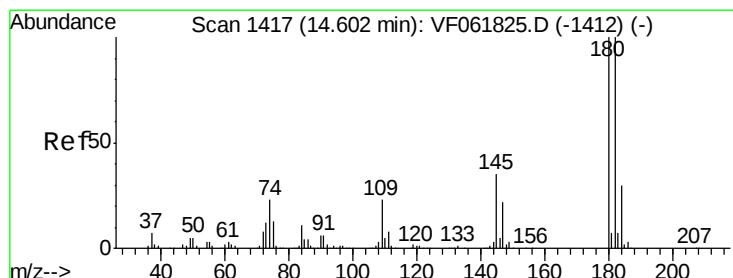
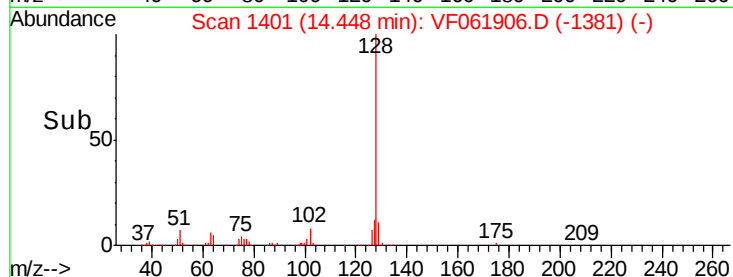
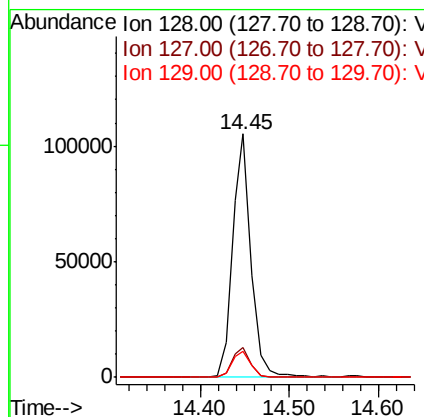
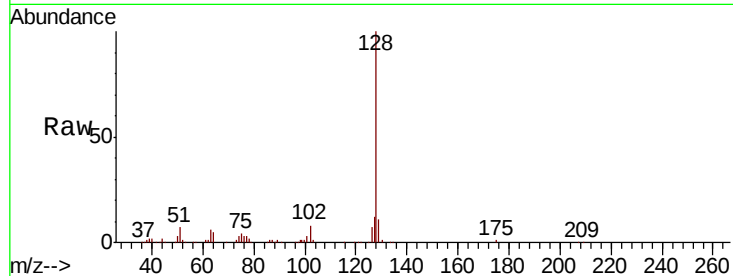
ClientSampled :

VF0312SBS01

Tgt Ion:	128	Resp:	154232
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.3	13.9
129	10.9	8.8	13.2

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 21.911 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF061906.D

Acq: 12 Mar 2019 15:43

Tgt Ion:	180	Resp:	90055
Ion Ratio	Lower	Upper	
180	100		
182	99.2	50.2	150.7
145	29.5	17.5	52.5

