

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061061.D
 Acq On : 18 Dec 2018 14:29
 Operator : VA/AP
 Sample : VF1218SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 2:15:09 PM

Quant Time: Dec 19 01:27:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	180748	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	285544	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	282623	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	142209	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	122360	57.47	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	114.94%	
35) Dibromofluoromethane	4.12	113	122954	54.28	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	108.56%	
50) Toluene-d8	7.55	98	345335	51.75	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	11.41	95	160053	52.78	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	105.56%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	55160	20.410	ug/l	89
3) Chloromethane	1.10	50	39011	22.183	ug/l	95
4) Vinyl Chloride	1.15	62	39845	24.290	ug/l	95
5) Bromomethane	1.32	94	27418	23.704	ug/l #	80
6) Chloroethane	1.39	64	18218	25.692	ug/l	88
7) Trichlorofluoromethane	1.49	101	84097	23.894	ug/l	90
8) Diethyl Ether	1.63	74	12082	23.872	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.84	101	42544	23.910	ug/l	96
10) Methyl Iodide	1.91	142	67485m	24.952	ug/l	
11) Tert butyl alcohol	2.57	59	11552	132.349	ug/l #	90
12) 1,1-Dichloroethene	1.80	96	32437	22.665	ug/l	96
13) Acrolein	2.00	56	6418m	77.607	ug/l	
14) Allyl chloride	2.10	41	39196m	21.973	ug/l	
15) Acrylonitrile	2.95	53	23615	120.679	ug/l	99
16) Acetone	2.24	43	54475	138.737	ug/l	99
17) Carbon Disulfide	1.83	76	88389m	23.034	ug/l	
18) Methyl Acetate	2.34	43	22102	32.990	ug/l	93
19) Methyl tert-butyl Ether	2.43	73	74629	23.152	ug/l	99
20) Methylene Chloride	2.26	84	36529m	25.359	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	24794	17.970	ug/l	82
22) Diisopropyl ether	2.80	45	122737	25.278	ug/l	99
23) Vinyl Acetate	3.19	43	290720	130.983	ug/l	96
24) 1,1-Dichloroethane	2.87	63	67723	23.443	ug/l	95
25) 2-Butanone	4.34	43	91141	134.199	ug/l	95
26) 2,2-Dichloropropane	3.59	77	42077	22.466	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	55677	24.786	ug/l	97
28) Bromochloromethane	3.72	49	32251	23.262	ug/l	90
29) Tetrahydrofuran	4.08	42	34646	120.349	ug/l	95
30) Chloroform	3.86	83	107076	24.083	ug/l	99
31) Cyclohexane	3.69	56	69686m	23.243	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	63726	20.667	ug/l	94
36) 1,1-Dichloropropene	4.28	75	79979	25.253	ug/l	97
37) Ethyl Acetate	4.12	43	34147	26.531	ug/l #	78
38) Carbon Tetrachloride	3.99	117	63874	22.833	ug/l	94

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	77494	23.348	ug/l	93
40) Benzene	4.63	78	180346	25.775	ug/l	98
41) Methacrylonitrile	4.75	41	17350	24.021	ug/l #	92
42) 1,2-Dichloroethane	4.94	62	65423	25.612	ug/l	99
43) Isopropyl Acetate	6.96	43	39871	23.676	ug/l #	88
44) Trichloroethene	5.51	130	54931	24.011	ug/l	97
45) 1,2-Dichloropropane	6.24	63	47938	26.380	ug/l	92
46) Dibromomethane	6.09	93	30552	24.784	ug/l	92
47) Bromodichloromethane	6.39	83	81791	24.981	ug/l	94
48) Methyl methacrylate	6.72	41	26874	23.068	ug/l	98
49) 1,4-Dioxane	6.71	88	3754	440.284	ug/l #	72
51) 4-Methyl-2-Pentanone	8.26	43	154850	130.470	ug/l	98
52) Toluene	7.62	92	113499	23.094	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	66874	25.111	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	85564	25.952	ug/l	97
55) 1,1,2-Trichloroethane	8.50	97	35777	24.982	ug/l	97
56) Ethyl methacrylate	8.63	69	38410	24.144	ug/l	93
57) 1,3-Dichloropropane	8.85	76	65137	25.998	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	47423	291.434	ug/l	96
59) 2-Hexanone	9.50	43	114115	137.049	ug/l	99
60) Dibromochloromethane	8.72	129	50270	23.559	ug/l	94
61) 1,2-Dibromoethane	8.99	107	37355	24.146	ug/l	89
64) Tetrachloroethene	8.15	164	47769	22.129	ug/l	98
65) Chlorobenzene	9.80	112	132677	24.131	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.93	131	53247	22.528	ug/l	92
67) Ethyl Benzene	9.90	91	251683	24.589	ug/l	97
68) m/p-Xylenes	10.14	106	167228	45.425	ug/l	97
69) o-Xylene	10.72	106	91209	22.468	ug/l	92
70) Styrene	10.79	104	129497	23.012	ug/l	98
71) Bromoform	10.78	173	26067	22.832	ug/l	95
73) Isopropylbenzene	11.12	105	276265	24.583	ug/l	98
74) N-amyl acetate	11.37	43	66019	25.440	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	48855	26.415	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	35339	26.287	ug/l	97
77) Bromobenzene	11.50	156	58766	23.852	ug/l	84
78) n-propylbenzene	11.60	91	346123	26.300	ug/l	99
79) 2-Chlorotoluene	11.73	91	195754	25.941	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	223764	24.527	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.87	75	17640m	26.780	ug/l	
82) 4-Chlorotoluene	11.90	91	199010	25.060	ug/l	98
83) tert-Butylbenzene	12.13	119	237197	25.524	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	233485	25.643	ug/l	98
85) sec-Butylbenzene	12.31	105	332812	26.161	ug/l	99
86) p-Isopropyltoluene	12.46	119	281317	26.375	ug/l	100
87) 1,3-Dichlorobenzene	12.47	146	119359	25.468	ug/l	95
88) 1,4-Dichlorobenzene	12.56	146	113286	24.804	ug/l	97
89) n-Butylbenzene	12.85	91	280267	25.987	ug/l	97
90) Hexachloroethane	12.92	117	62609	24.377	ug/l	99
91) 1,2-Dichlorobenzene	12.95	146	110028	24.791	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8504	23.781	ug/l	94

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Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	76944	24.812	ug/l	98
94) Hexachlorobutadiene	14.19	225	47573	23.013	ug/l	99
95) Naphthalene	14.46	128	167939	26.239	ug/l	100
96) 1,2,3-Trichlorobenzene	14.61	180	73539	25.540	ug/l	95

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

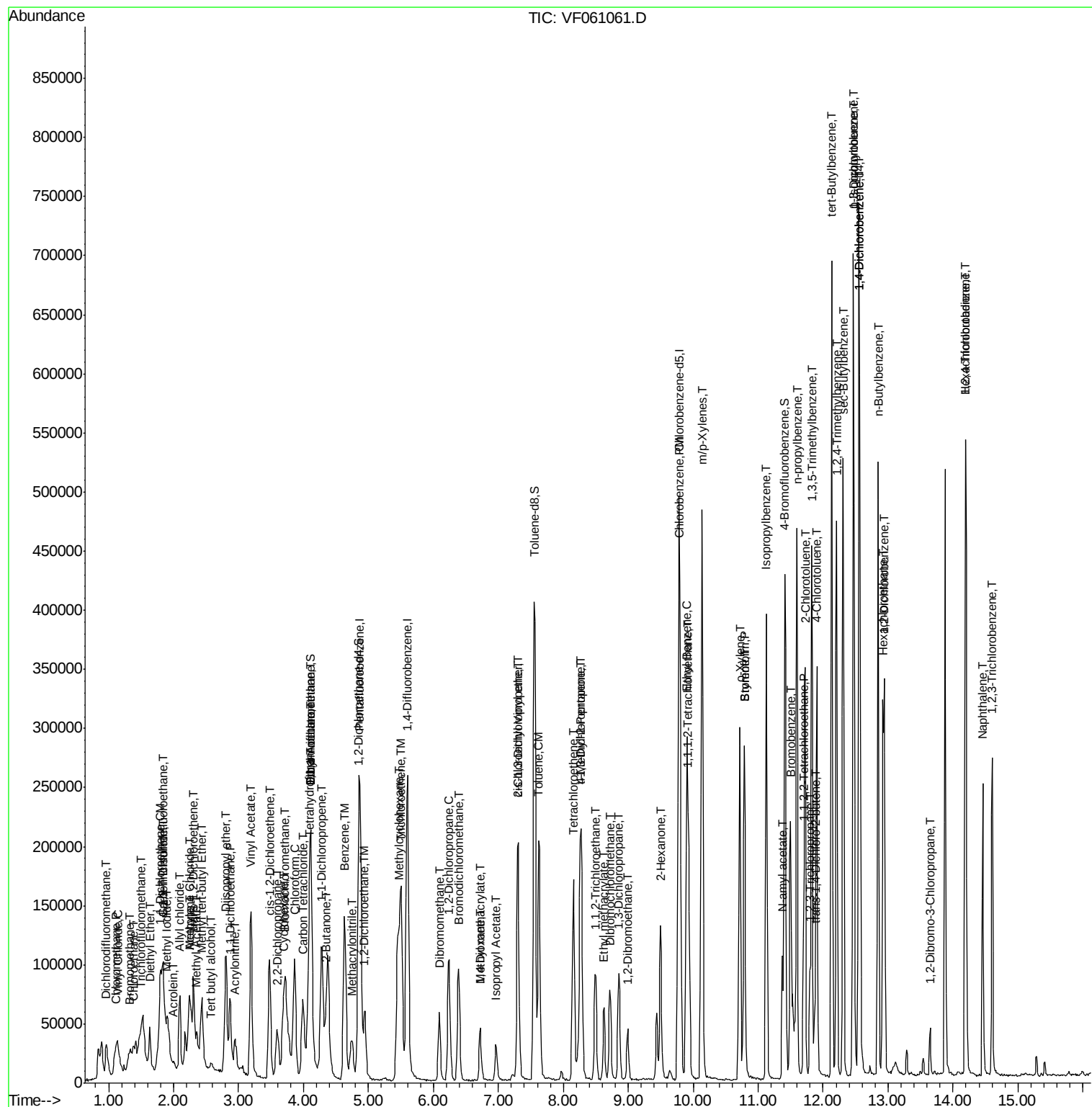
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Data File : VF061061.D
Acq On : 18 Dec 2018 14:29
Operator : VA/AP
Sample : VF1218SBS01
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 7 Sample Multiplier: 1

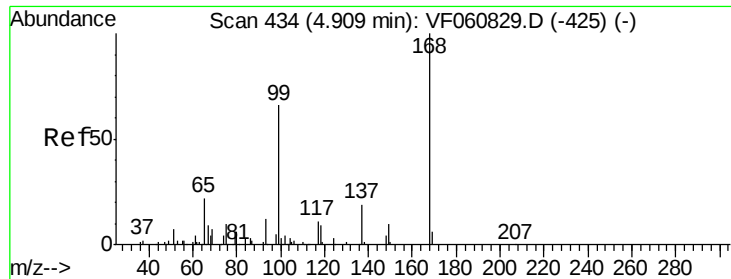
Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion:168 Resp: 180748

Ion Ratio Lower Upper

168 100

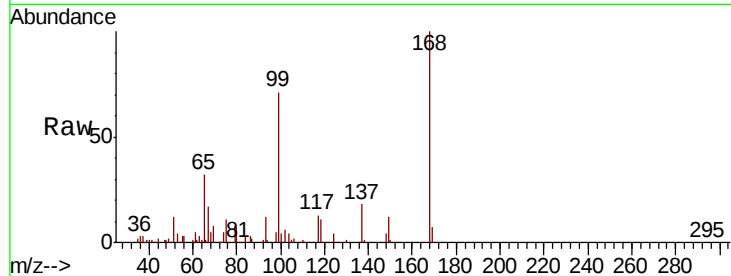
99 70.9 52.6 79.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

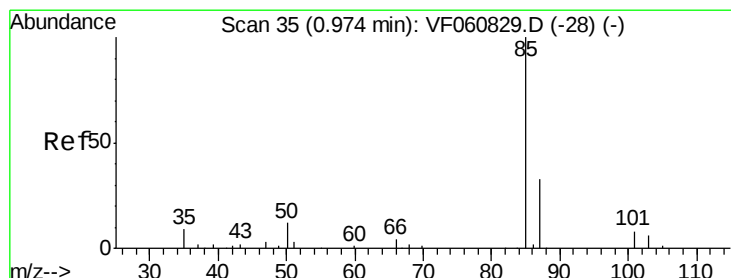
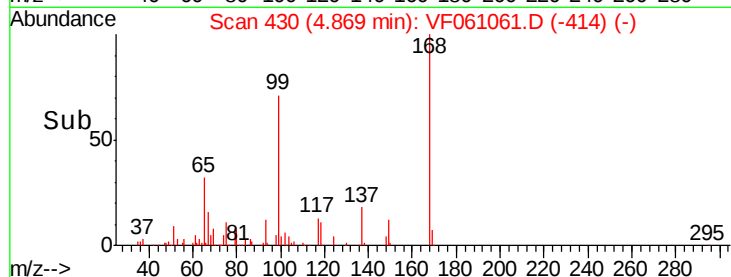
40000

20000

0

4.80 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 20.410 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF061061.D

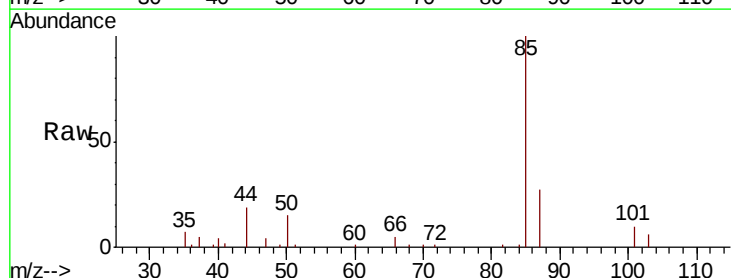
Acq: 18 Dec 2018 14:29

Tgt Ion: 85 Resp: 55160

Ion Ratio Lower Upper

85 100

87 27.2 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

15000

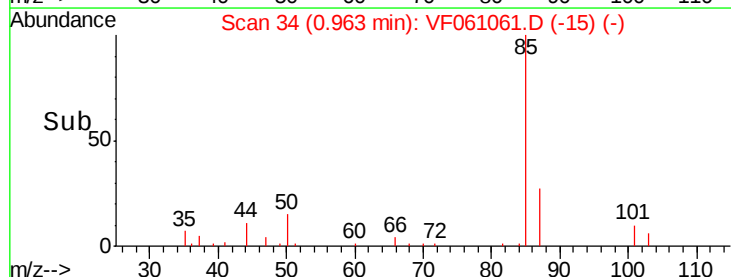
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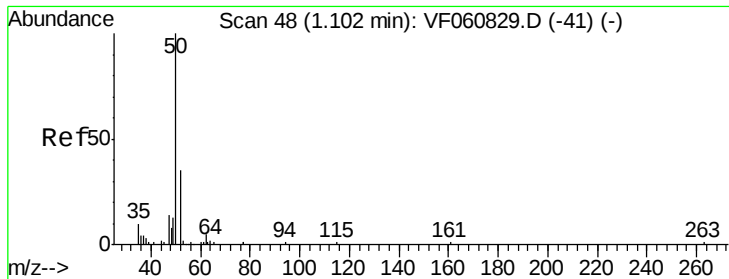
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 22.183 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 50 Resp: 39011

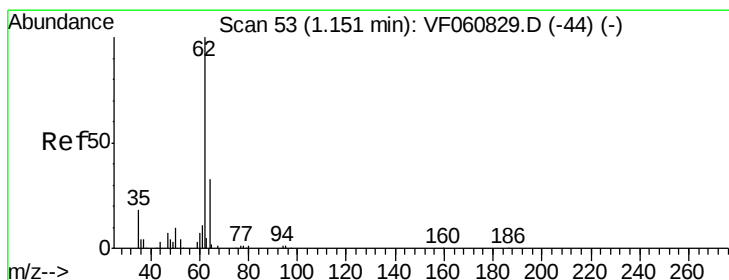
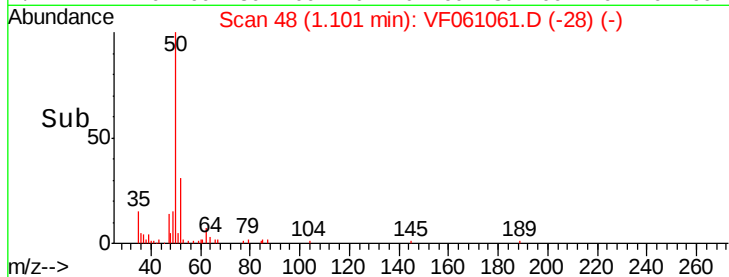
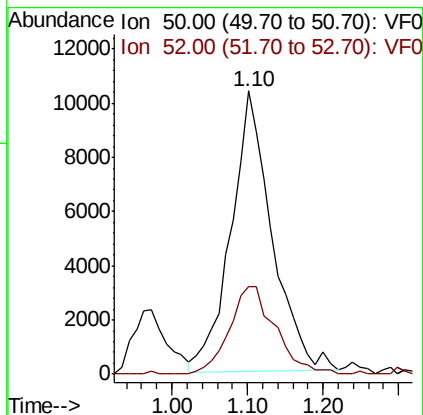
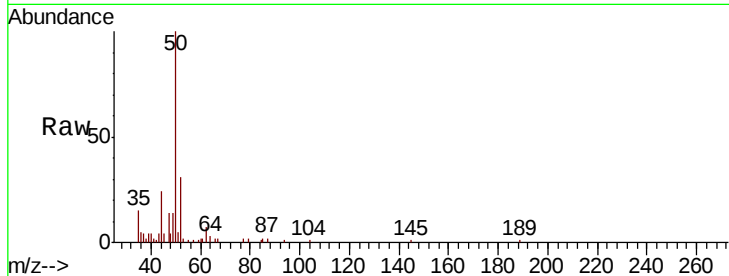
Ion Ratio Lower Upper

50 100

52 30.7 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 24.290 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF061061.D

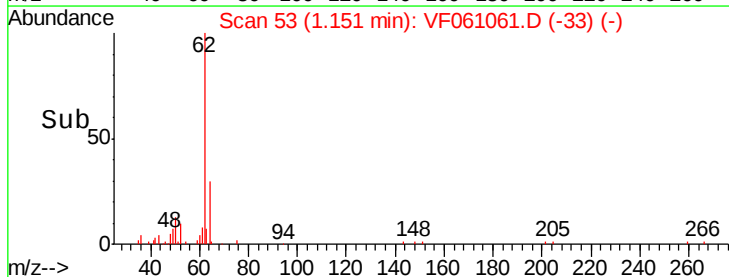
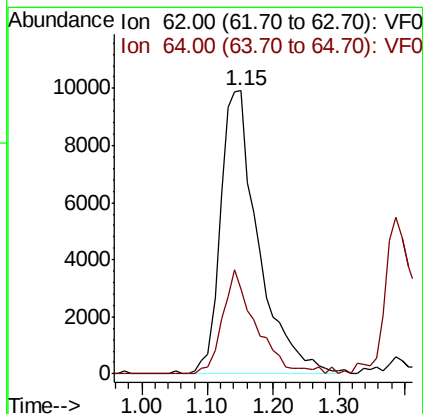
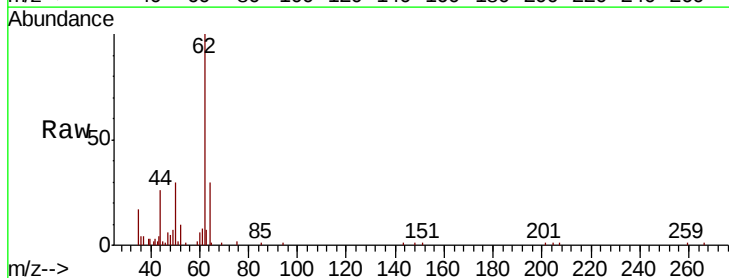
Acq: 18 Dec 2018 14:29

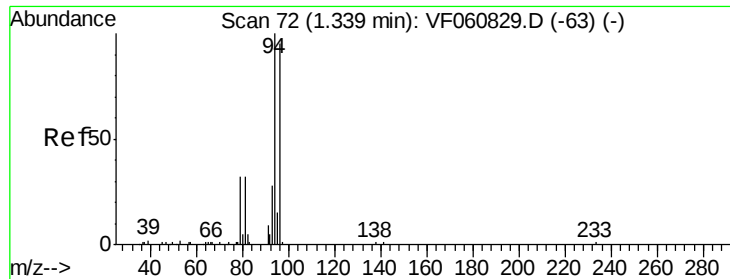
Tgt Ion: 62 Resp: 39845

Ion Ratio Lower Upper

62 100

64 30.1 26.4 39.6





#5

Bromomethane

Concen: 23.704 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 94 Resp: 27418

Ion Ratio Lower Upper

94 100

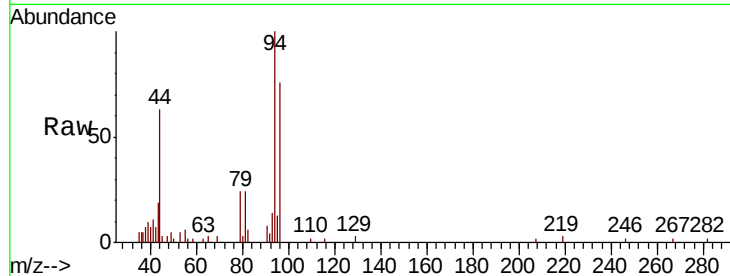
96 75.6 75.9 113.9#

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

6000

5000

4000

3000

2000

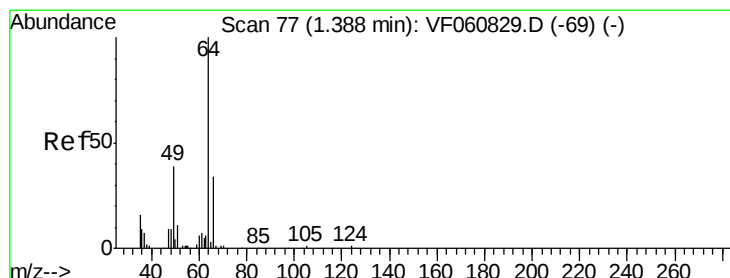
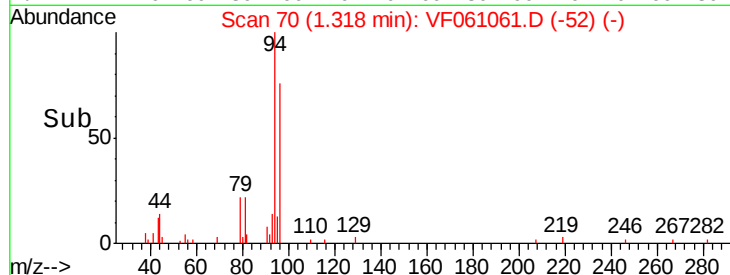
1000

0

1.32

1.10 1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 25.692 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061061.D

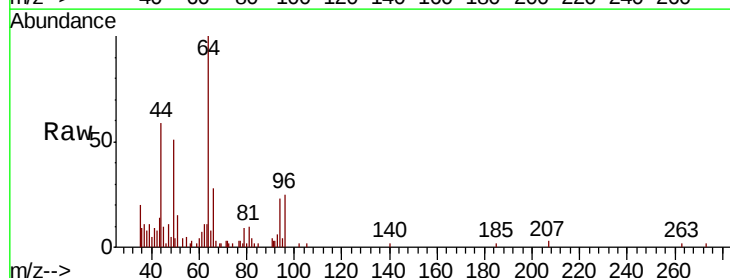
Acq: 18 Dec 2018 14:29

Tgt Ion: 64 Resp: 18218

Ion Ratio Lower Upper

64 100

66 28.1 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

6000

5000

4000

3000

2000

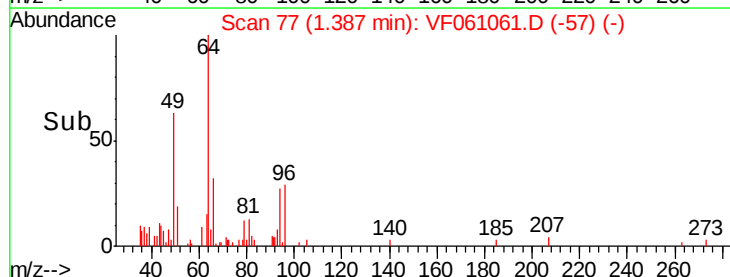
1000

0

1.39

1.20 1.30 1.40 1.50 1.60

Time-->





#7

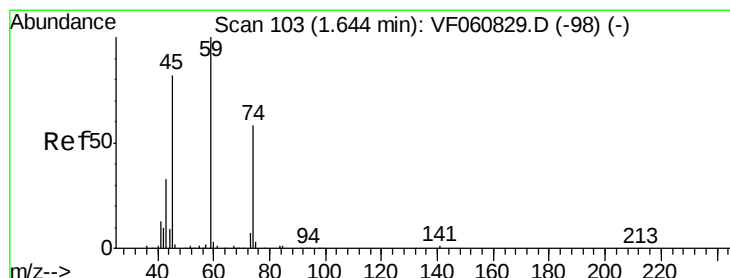
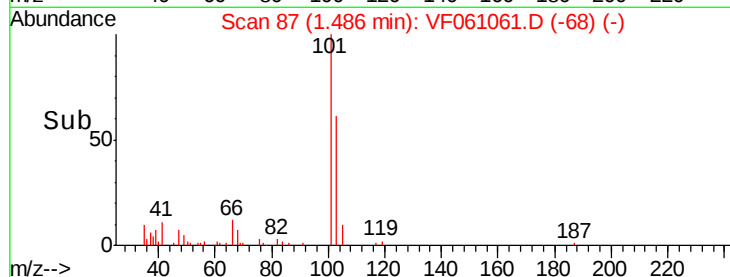
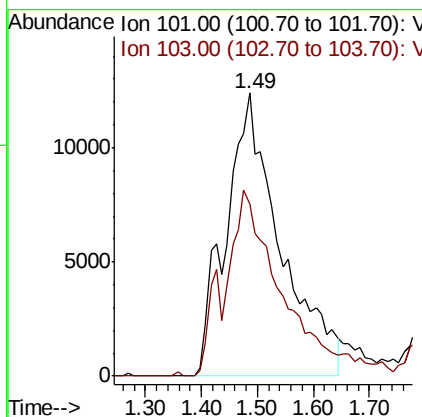
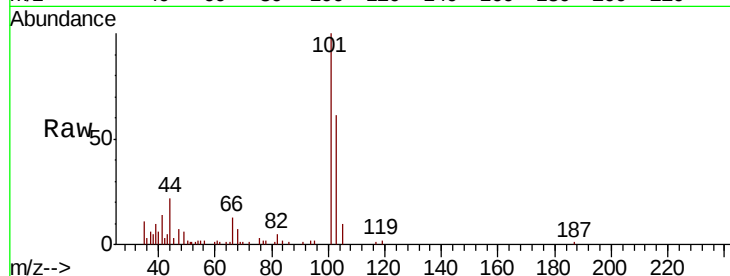
Trichlorofluoromethane
Concen: 23.894 ug/l
RT: 1.49 min Scan# 87
Delta R.T. -0.01 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.0	55.4	83.0

Manual Integrations
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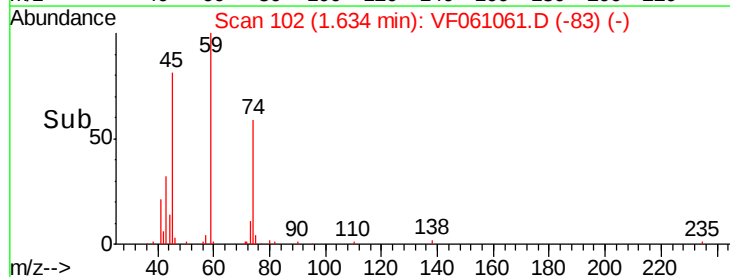
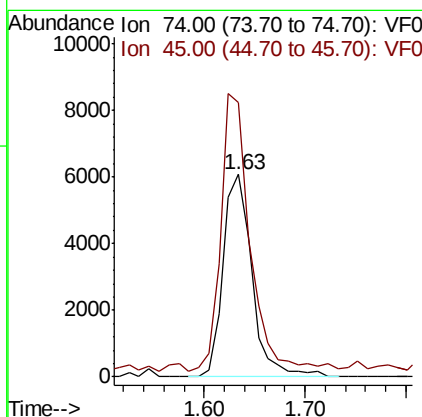
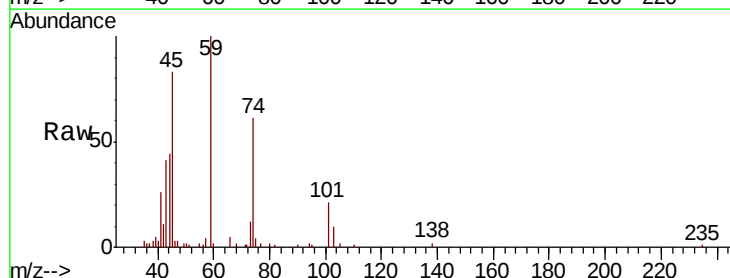
MMDadoda
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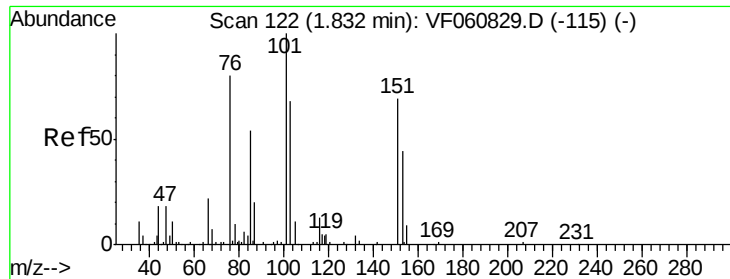


#8

Diethyl Ether
Concen: 23.872 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	135.9	71.0	212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.910 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

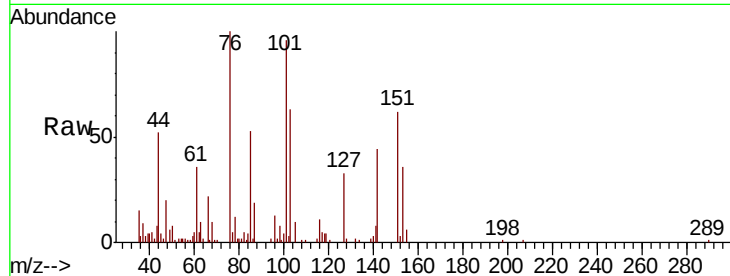
ClientSampleId :

VF1218SBS01

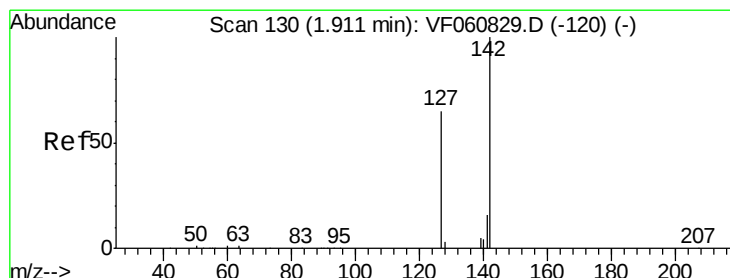
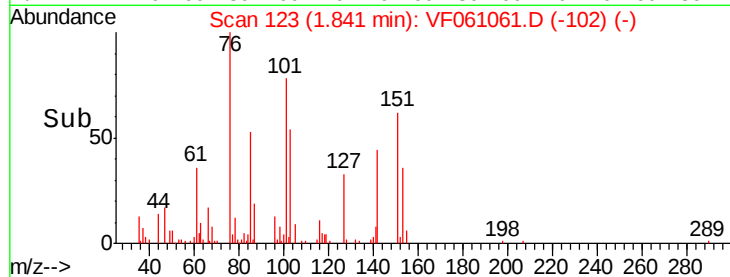
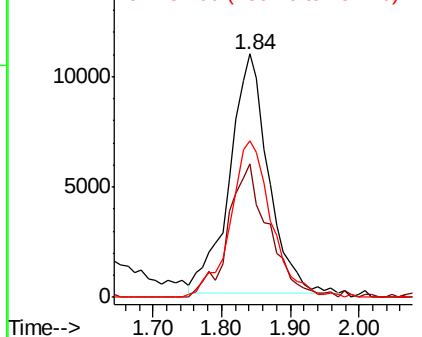
Tot Ion:	101	Resp:	42544
Ion Ratio	Lower	Upper	
101	100		
85	55.0	42.8	64.2
151	64.3	54.4	81.6

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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 24.952 ug/l m

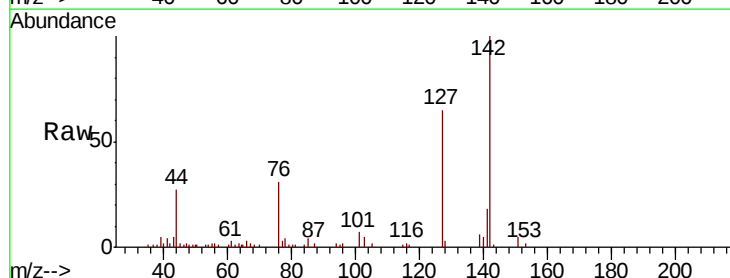
RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

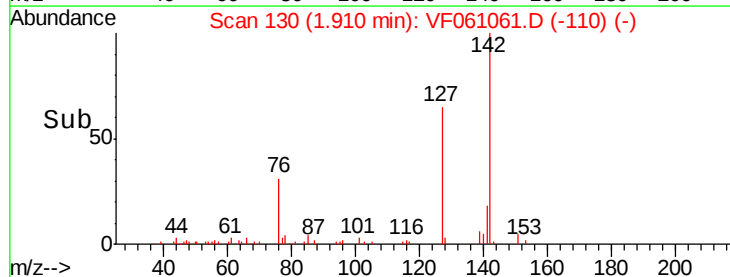
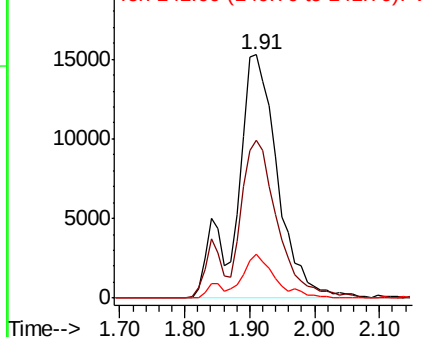
Lab File: VF061061.D

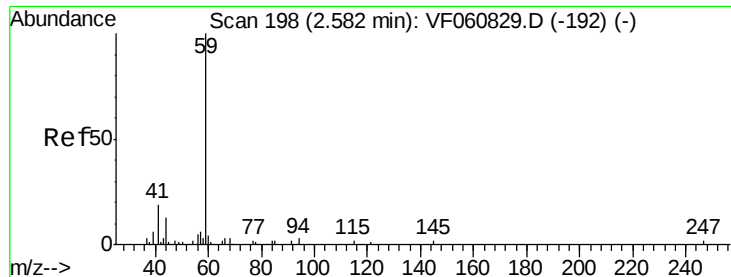
Acq: 18 Dec 2018 14:29

Tgt Ion:	142	Resp:	67485
Ion Ratio	Lower	Upper	
142	100		
127	64.7	51.9	77.9
141	17.8	12.7	19.1



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V





#11

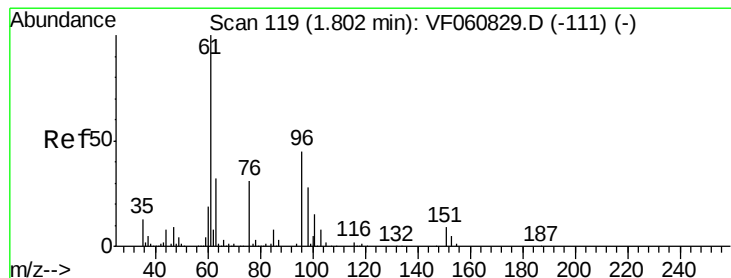
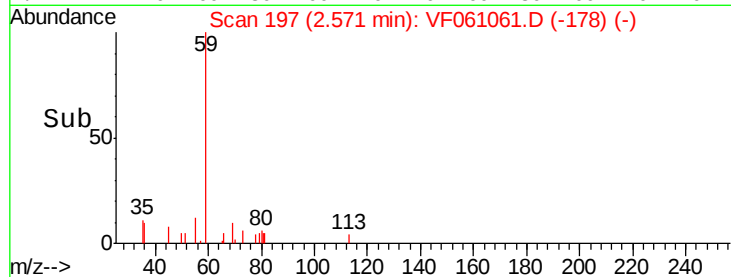
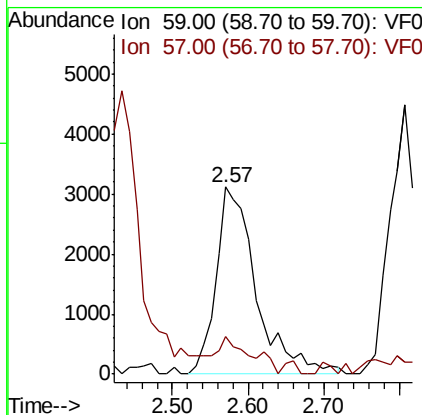
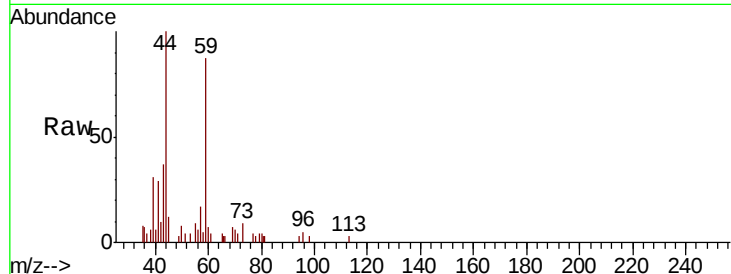
Tert butyl alcohol
 Concen: 132.349 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. -0.01 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion: 59 Resp: 11552
 Ion Ratio Lower Upper
 59 100
 57 19.9 12.7 19.1#

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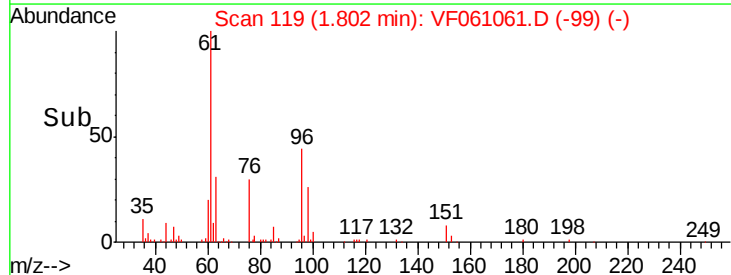
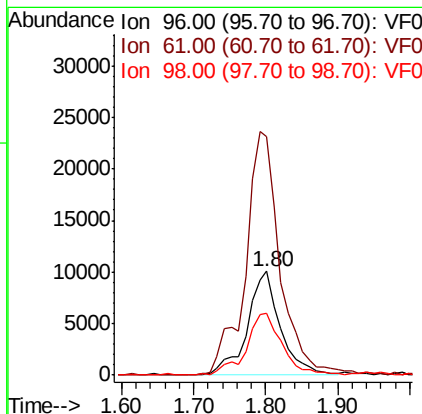
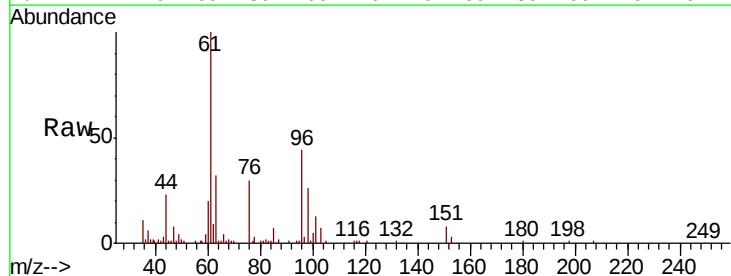
MMDadoda
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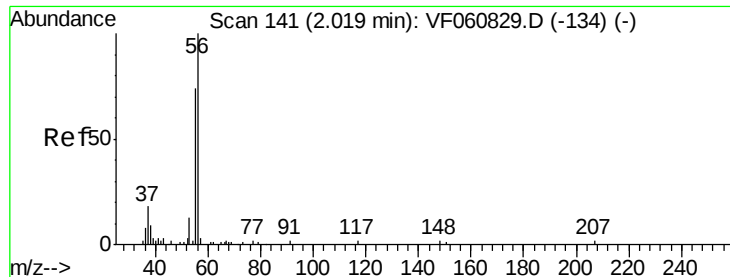


#12

1,1-Dichloroethene
 Concen: 22.665 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion: 96 Resp: 32437
 Ion Ratio Lower Upper
 96 100
 61 229.2 177.3 265.9
 98 59.7 49.6 74.4





#13

Acrolein

Concen: 77.607 ug/l m

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 56 Resp: 6418

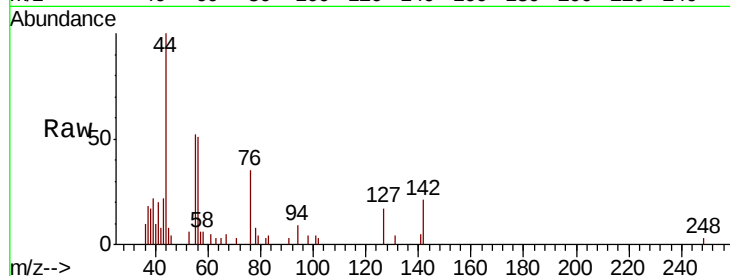
Ion Ratio Lower Upper

56 100

55 102.0 61.2 91.8#

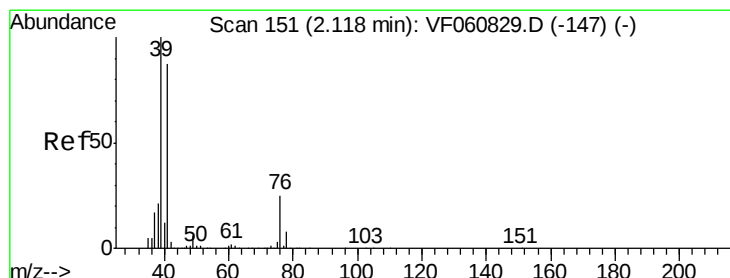
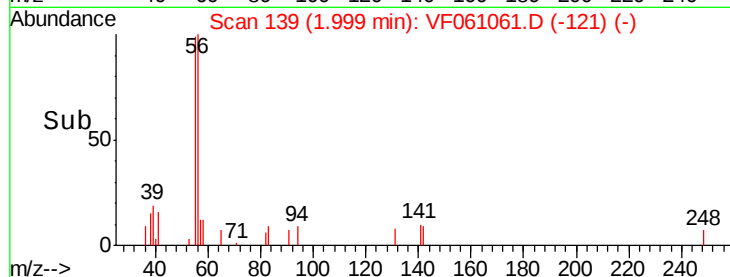
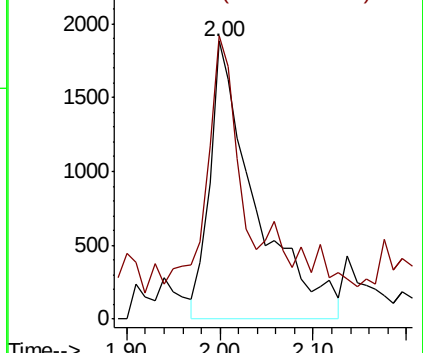
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 21.973 ug/l m

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

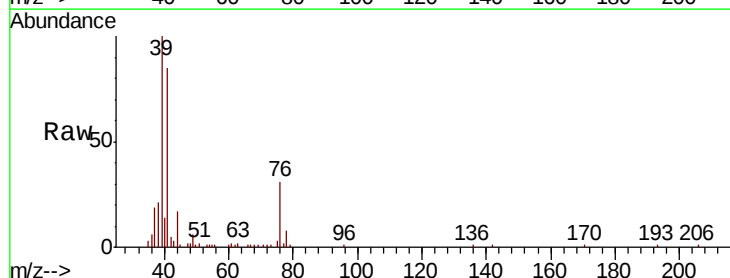
Tgt Ion: 41 Resp: 39196

Ion Ratio Lower Upper

41 100

39 117.6 91.7 137.5

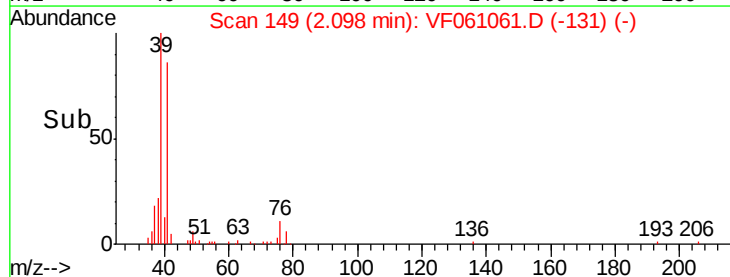
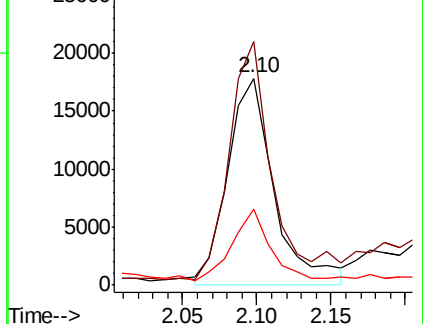
76 36.7 23.5 35.3#

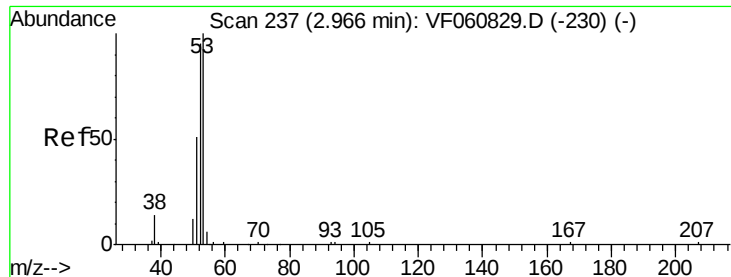


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 120.679 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

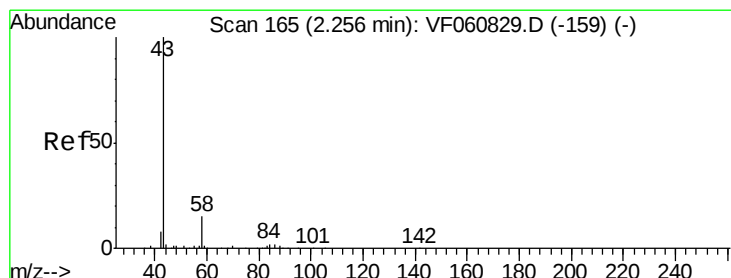
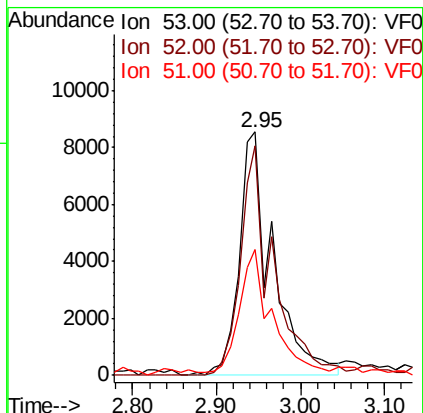
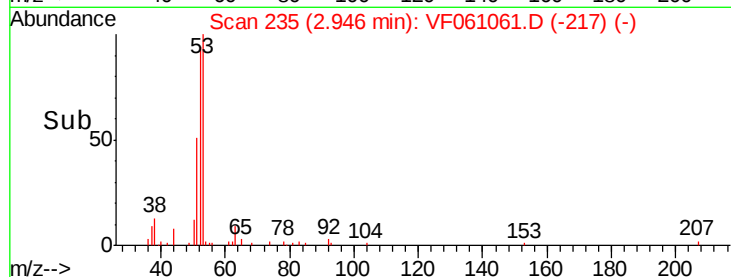
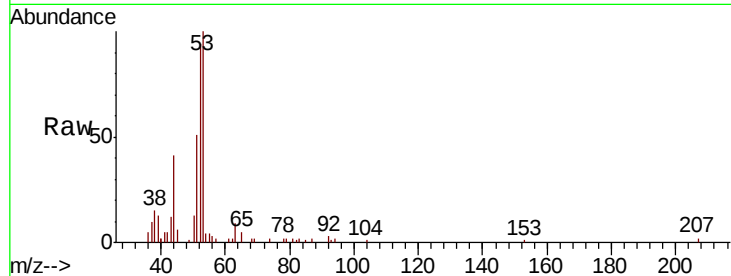
ClientSampleId :

VF1218SBS01

Tot Ion:	53	Resp:	23615
Ion	Ratio	Lower	Upper
53	100		
52	94.4	76.5	114.7
51	51.5	40.7	61.1

Manual Integrations
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#16

Acetone

Concen: 138.737 ug/l

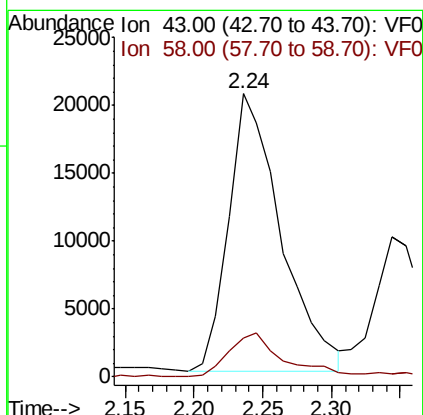
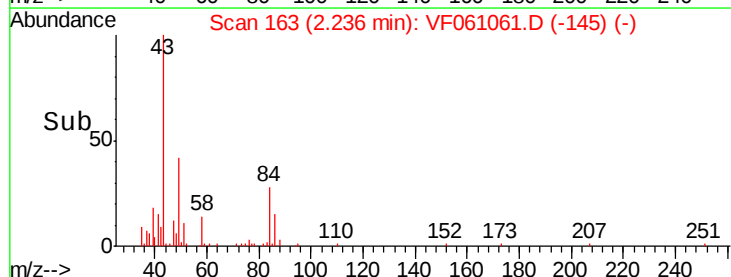
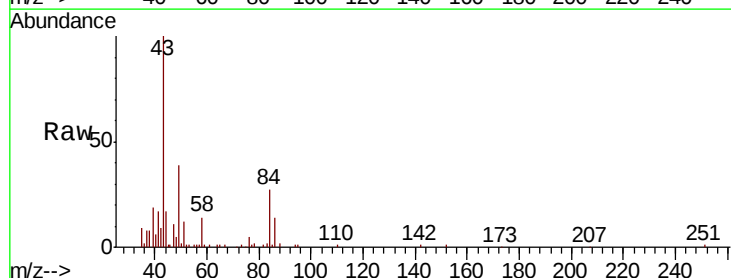
RT: 2.24 min Scan# 163

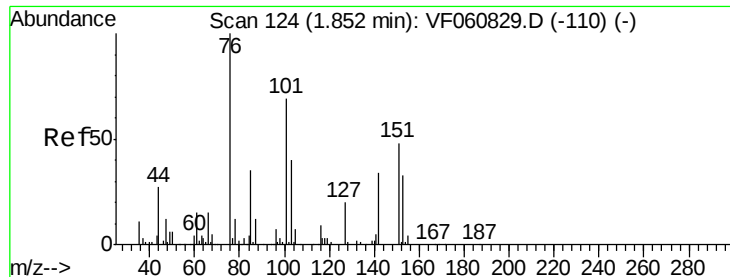
Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	43	Resp:	54475
Ion	Ratio	Lower	Upper
43	100		
58	14.0	11.4	17.2





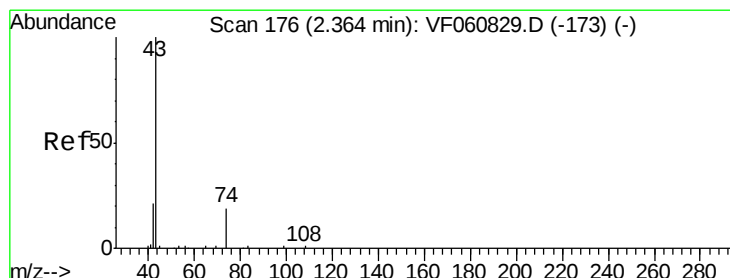
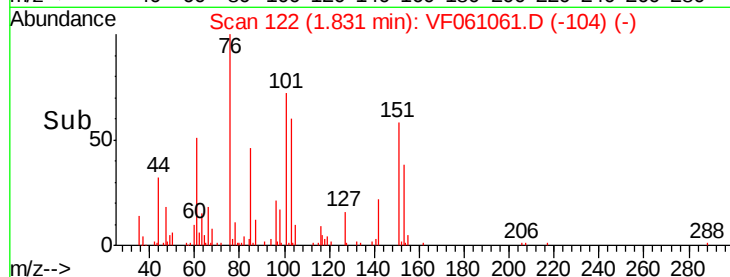
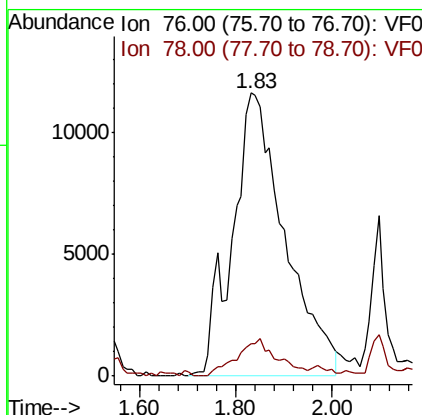
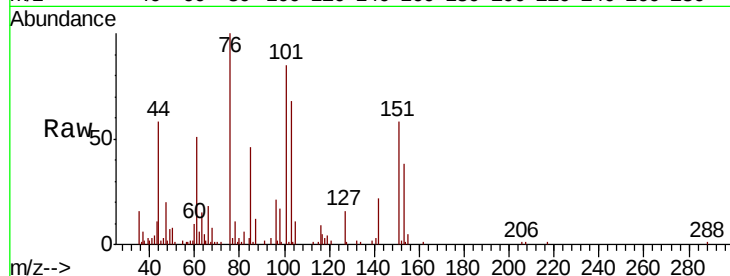
#17
Carbon Disulfide
Concen: 23.034 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion: 76 Resp: 88389
Ion Ratio Lower Upper
76 100
78 11.5 10.2 15.2

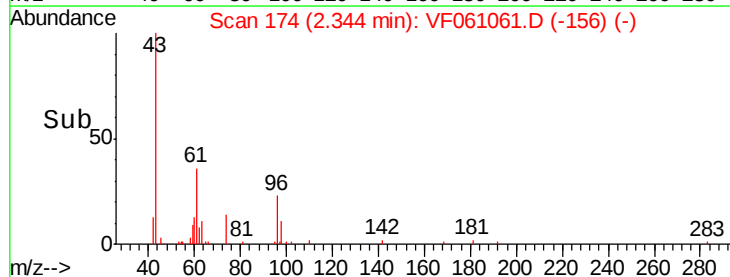
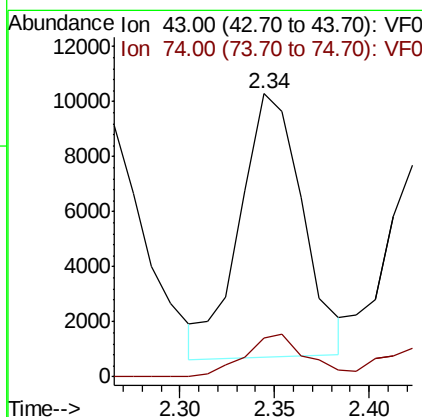
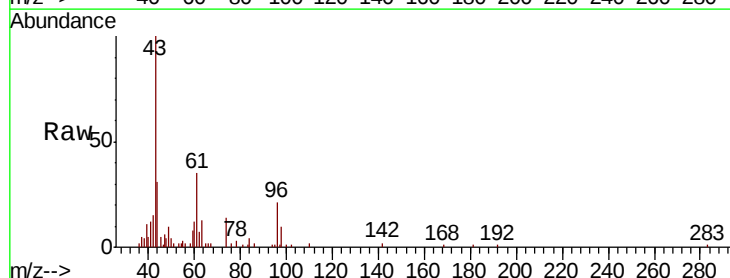
Manual Integrations
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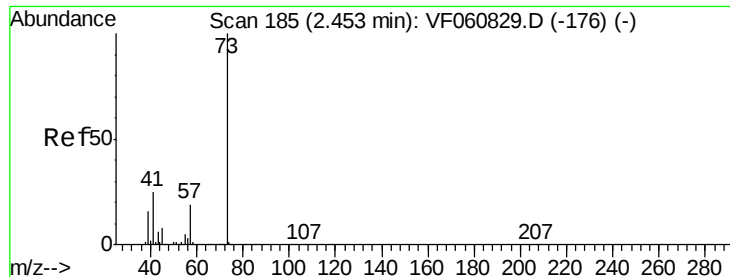
MMDadoda
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#18
Methyl Acetate
Concen: 32.990 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion: 43 Resp: 22102
Ion Ratio Lower Upper
43 100
74 13.7 13.3 19.9





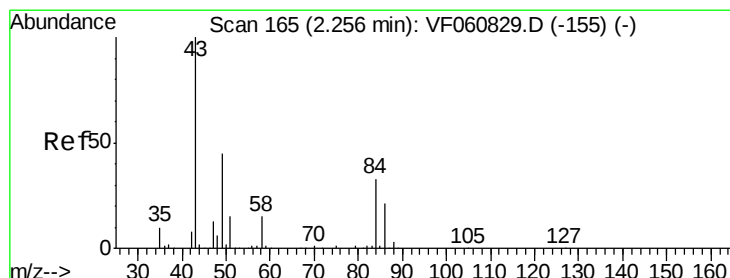
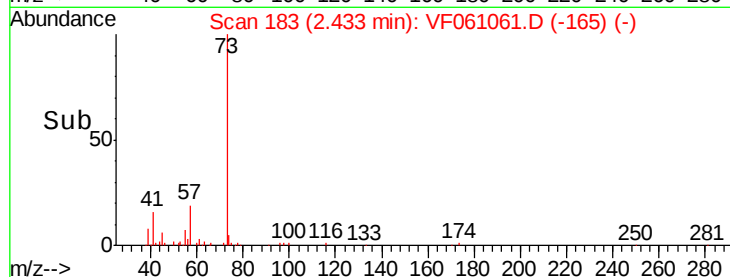
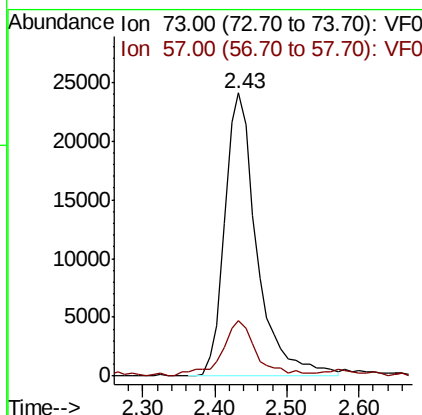
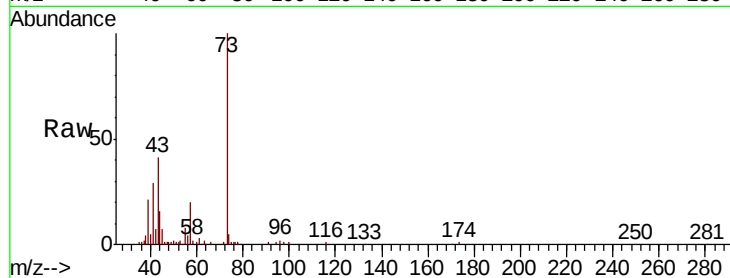
#19
Methvl tert-butvl Ether
Concen: 23.152 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion: 73 Resp: 74629
Ion Ratio Lower Upper
73 100
57 19.6 15.3 22.9

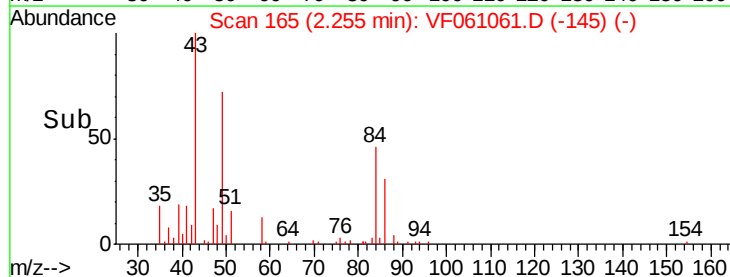
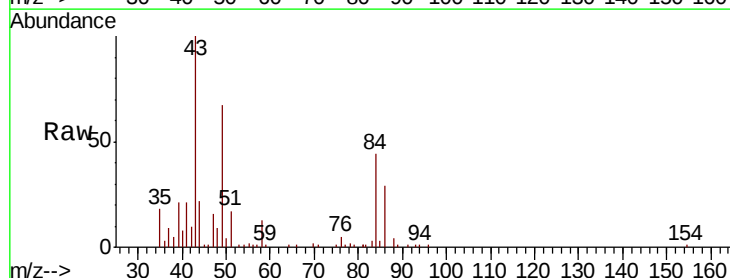
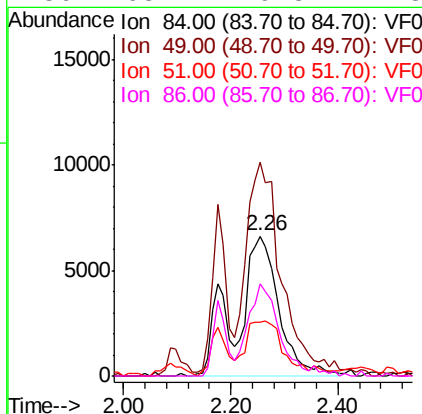
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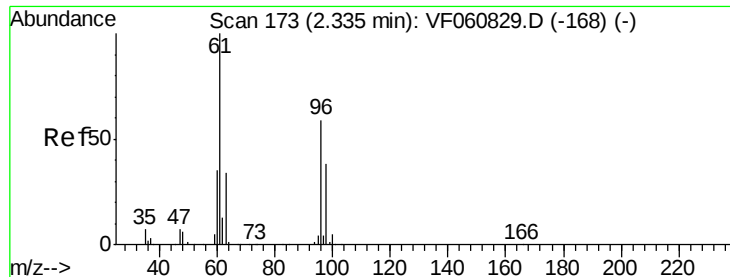
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#20
Methylene Chloride
Concen: 25.359 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion: 84 Resp: 36529
Ion Ratio Lower Upper
84 100
49 152.4 111.3 166.9
51 38.1 38.0 57.0
86 65.7 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 17.970 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 96 Resp: 24794

Ion Ratio Lower Upper

96 100

61 198.7 134.5 201.7

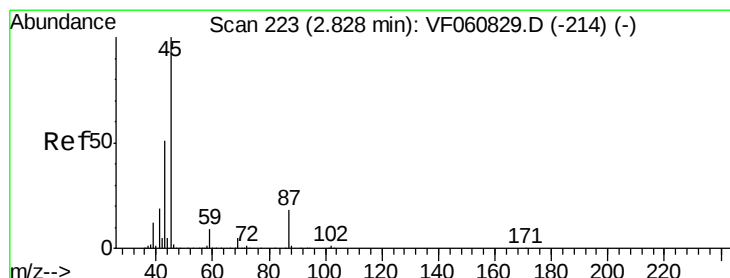
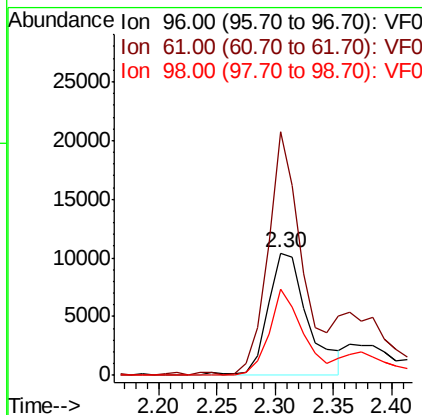
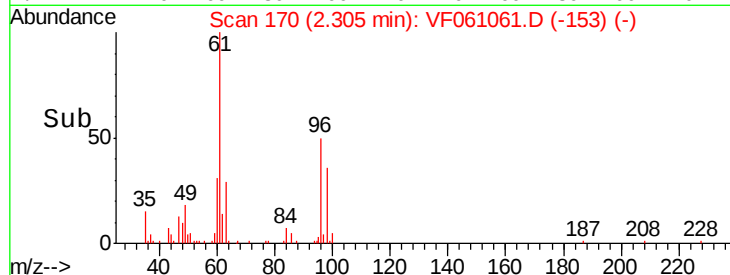
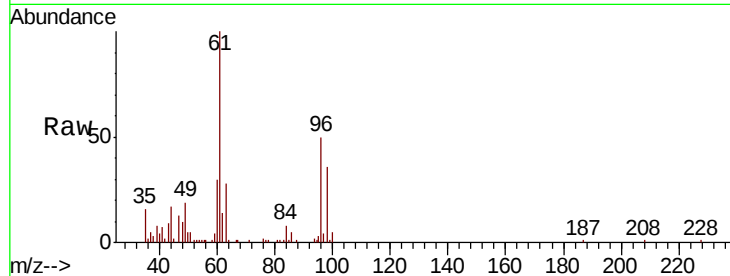
98 70.8 51.6 77.4

Manual Integrations

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#22

Diisopropyl ether

Concen: 25.278 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion: 45 Resp: 122737

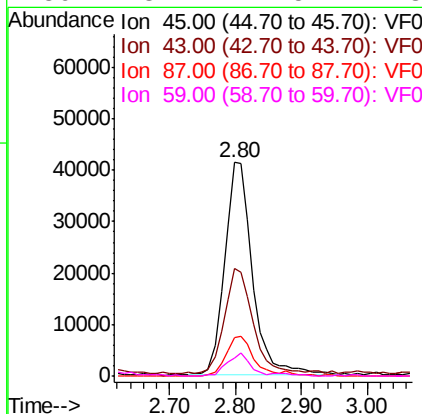
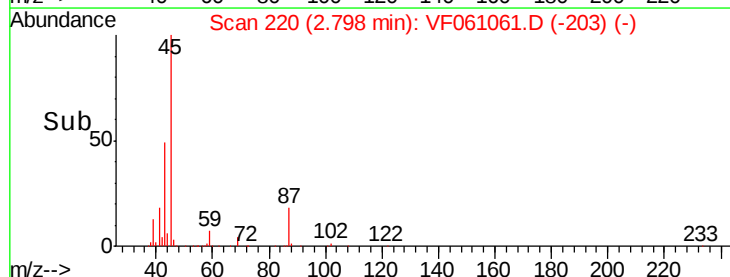
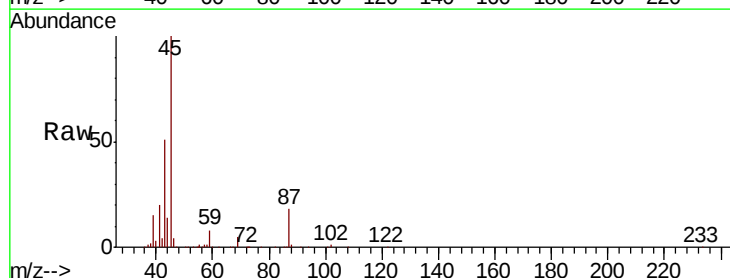
Ion Ratio Lower Upper

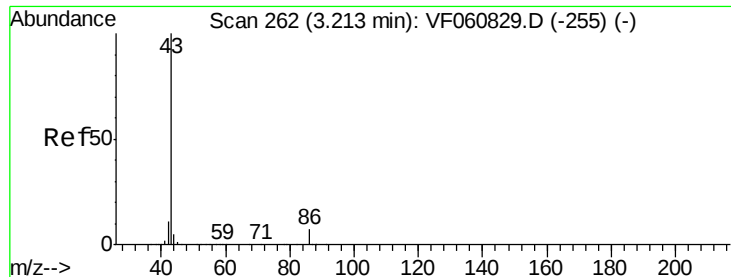
45 100

43 50.6 41.0 61.6

87 18.2 14.6 22.0

59 8.2 7.5 11.3





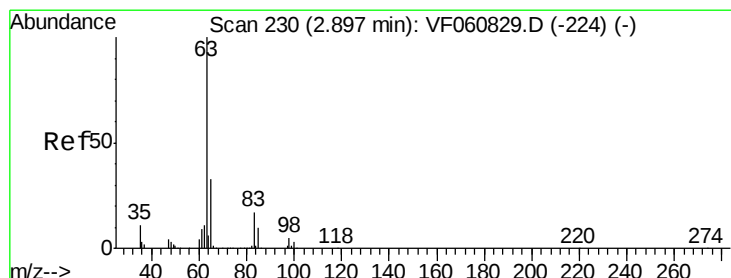
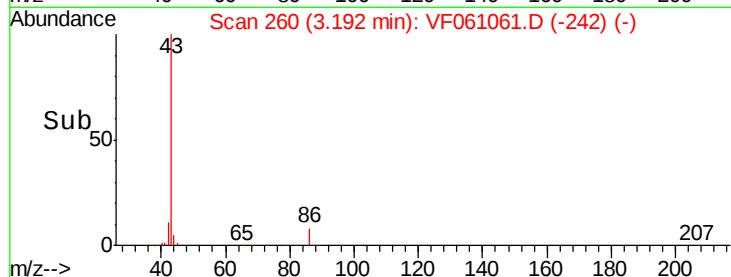
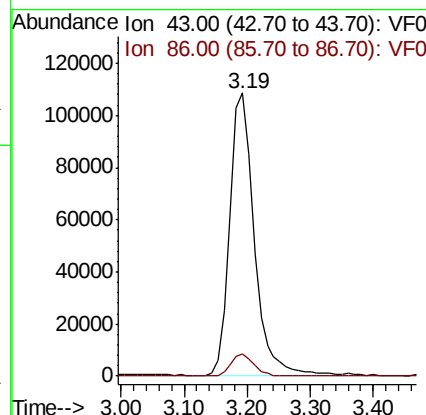
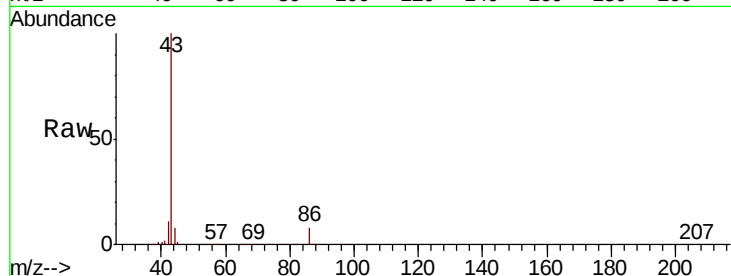
#23
 Vinyl Acetate
 Concen: 130.983 ug/l
 RT: 3.19 min Scan# 260
 Delta R.T. -0.02 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	43	Resp	290720
Ion Ratio	100	Lower	Upper
43	100		
86	7.9	5.4	8.0

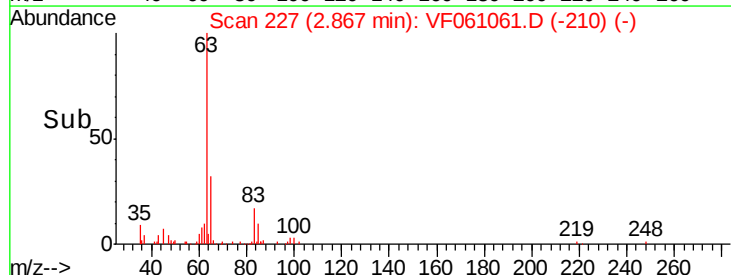
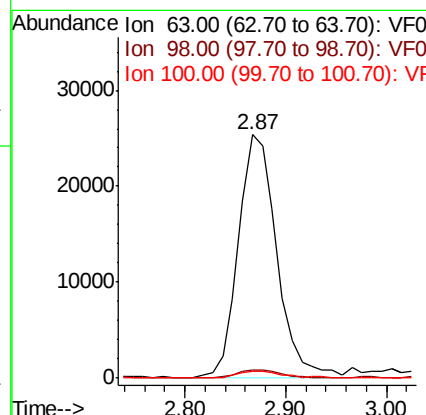
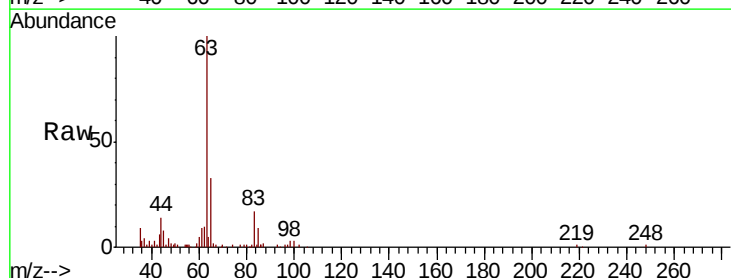
Manual Integrations
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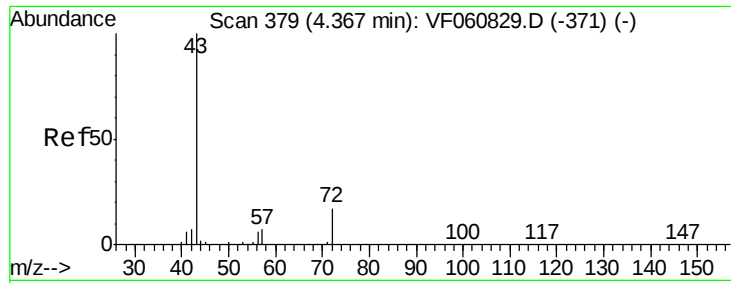
MMDadoda
 12/19/2018 2:15:09 PM



#24
 1,1-Dichloroethane
 Concen: 23.443 ug/l
 RT: 2.87 min Scan# 227
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	63	Resp	67723
Ion Ratio	100	Lower	Upper
63	100		
98	3.1	2.7	8.1
100	2.6	1.5	4.5





#25

2-Butanone

Concen: 134.199 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 43 Resp: 91141

Ion Ratio Lower Upper

43 100

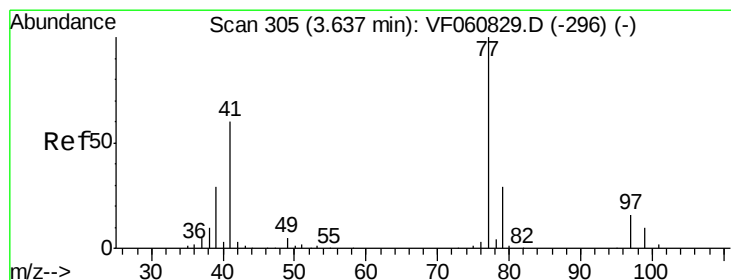
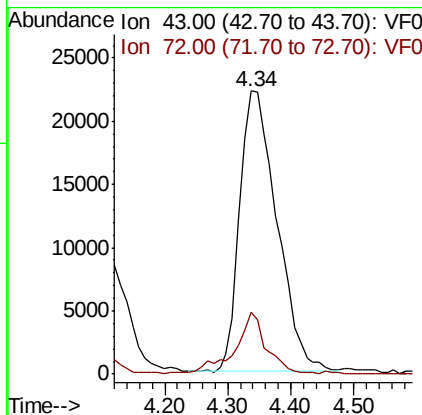
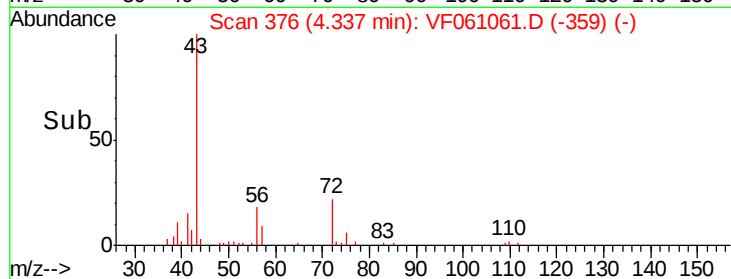
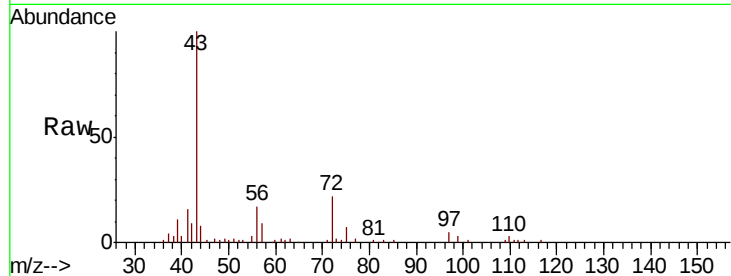
72 21.7 15.4 23.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 22.466 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF061061.D

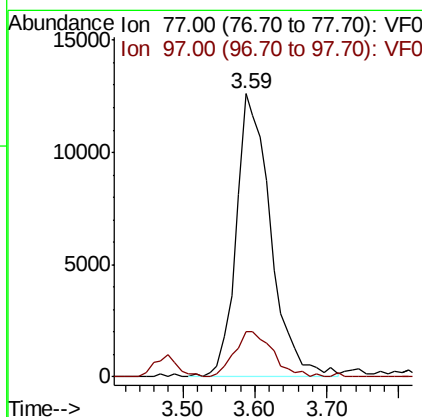
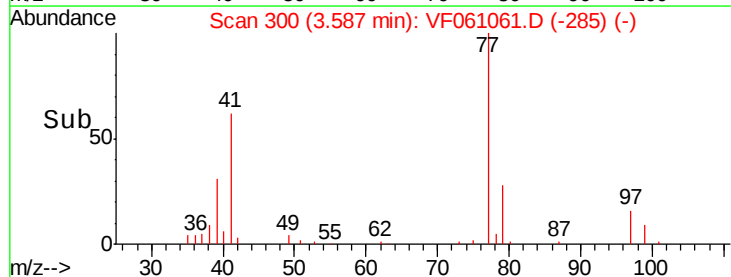
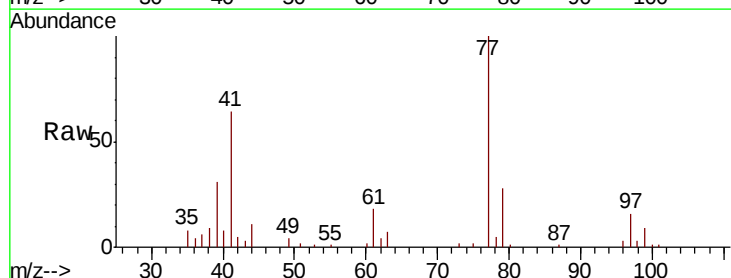
Acq: 18 Dec 2018 14:29

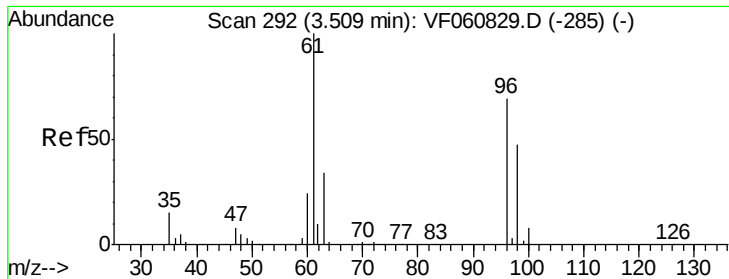
Tgt Ion: 77 Resp: 42077

Ion Ratio Lower Upper

77 100

97 16.1 8.6 25.8





#27

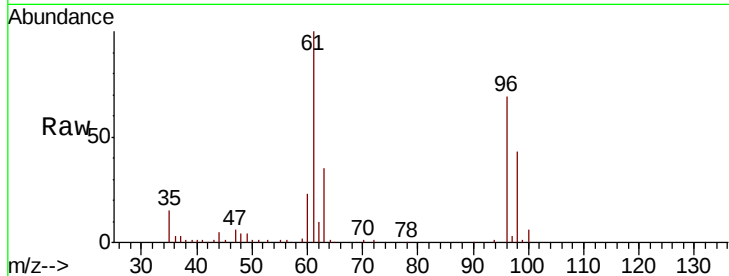
cis-1,2-Dichloroethene
Concen: 24.786 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.8	0.0	290.6
98	62.8	0.0	137.8

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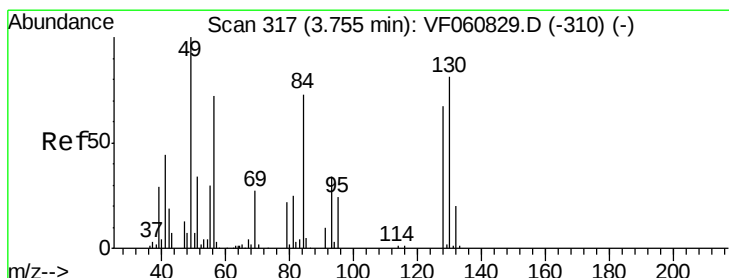
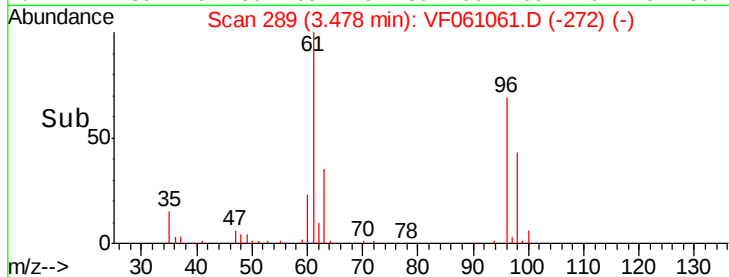
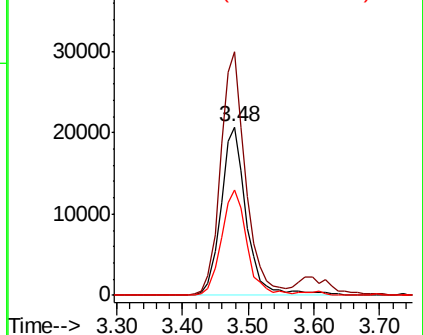


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

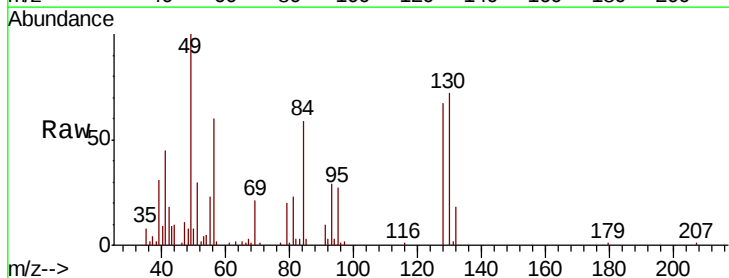
Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane
Concen: 23.262 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	71.6	64.2	96.4

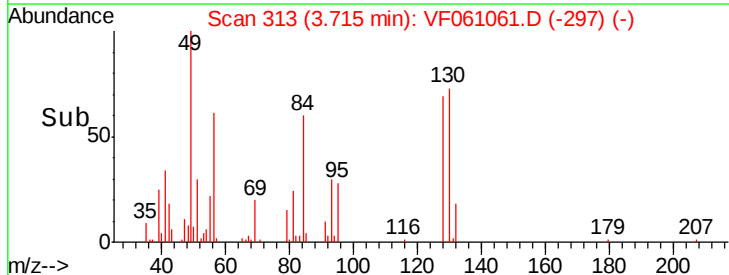
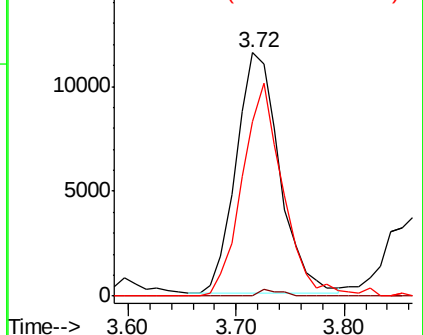


Abundance

Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 120.349 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

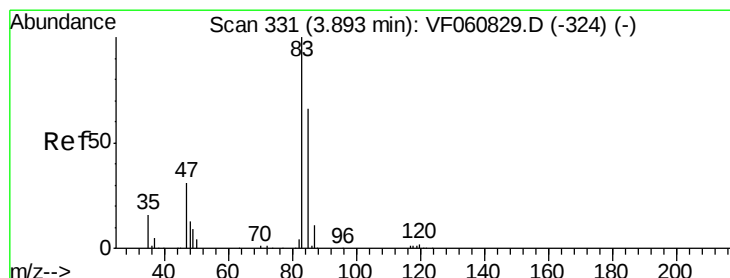
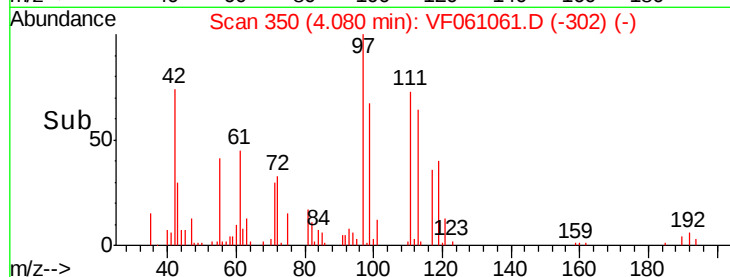
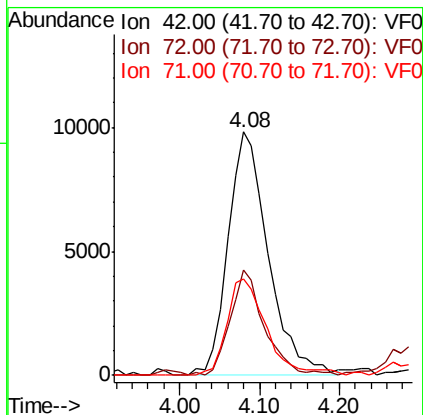
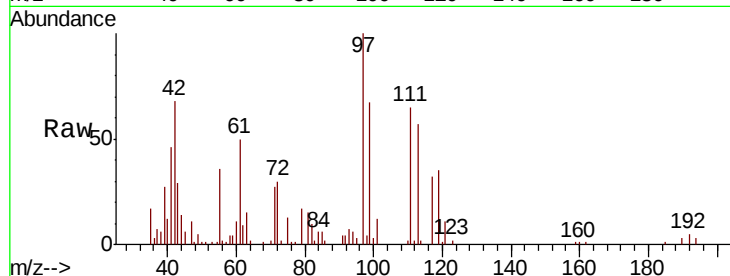
ClientSampleId :

VF1218SBS01

Tot Ion:	42	Resp:	34646
Ion	Ratio	Lower	Upper
42	100		
72	36.8	31.9	47.9
71	38.5	28.7	43.1

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#30

Chloroform

Concen: 24.083 ug/l

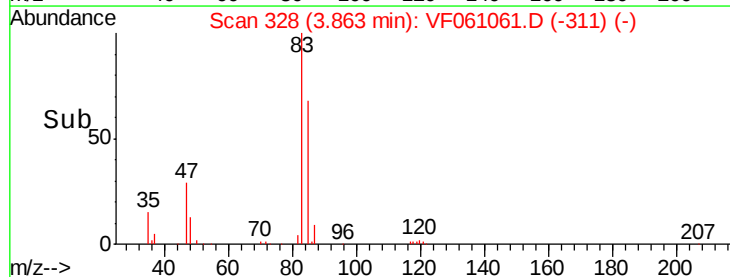
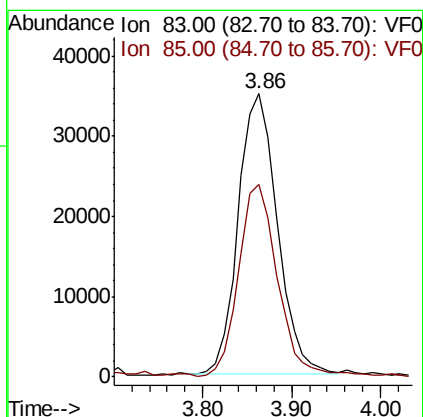
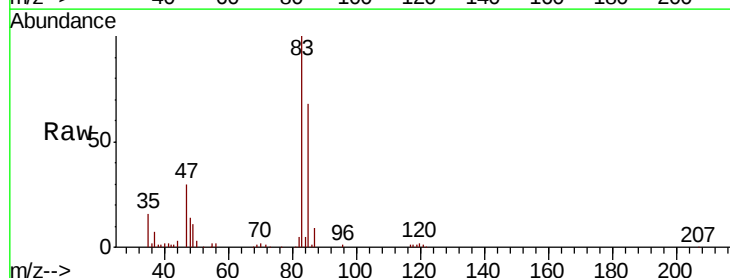
RT: 3.86 min Scan# 328

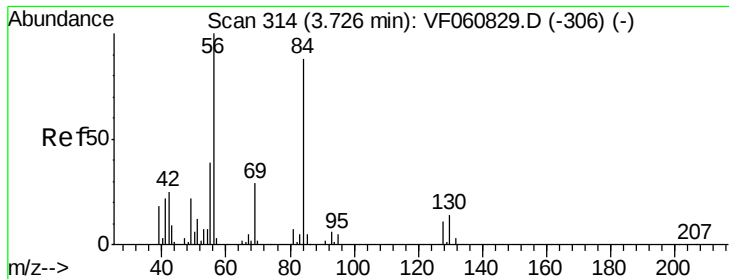
Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	83	Resp:	107076
Ion	Ratio	Lower	Upper
83	100		
85	67.9	53.4	80.2





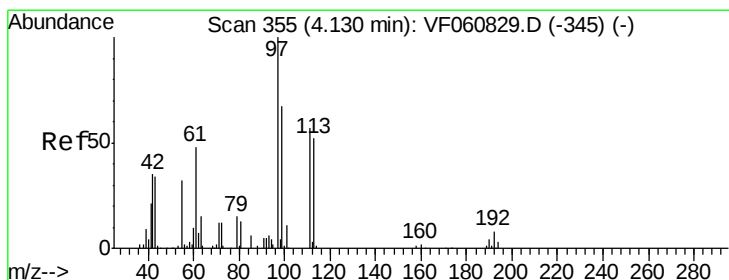
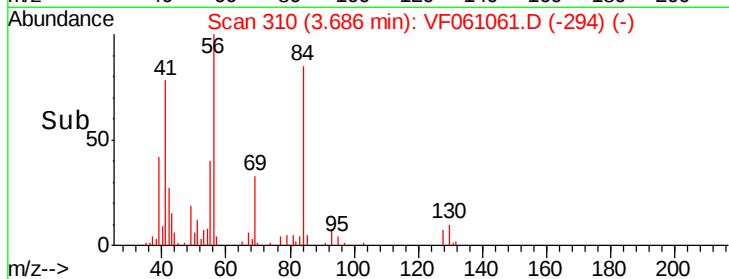
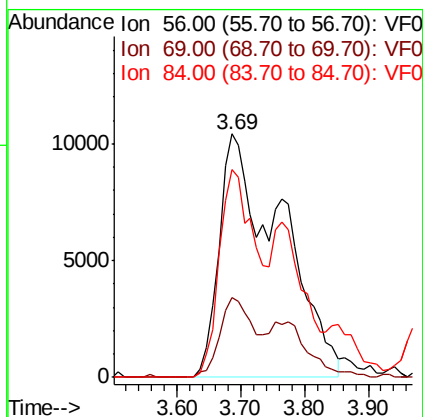
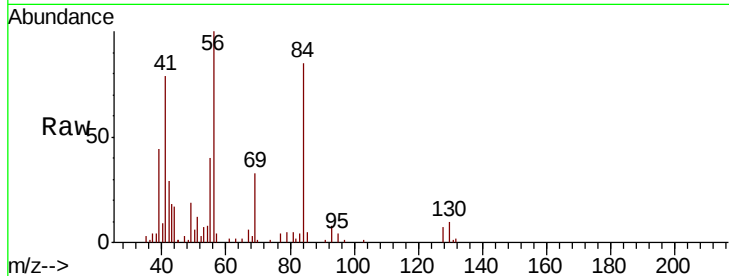
#31
Cvclohexane
Concen: 23.243 ug/l m
RT: 3.69 min Scan# 310
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.8	23.0	34.4
84	85.1	70.4	105.6

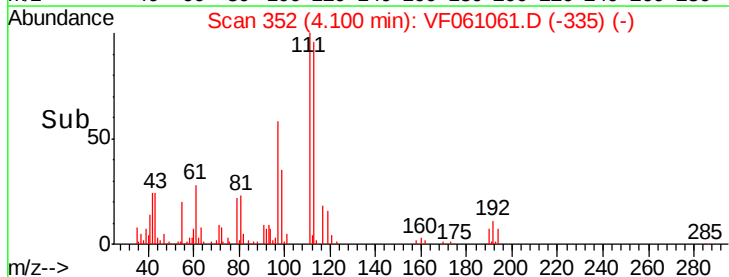
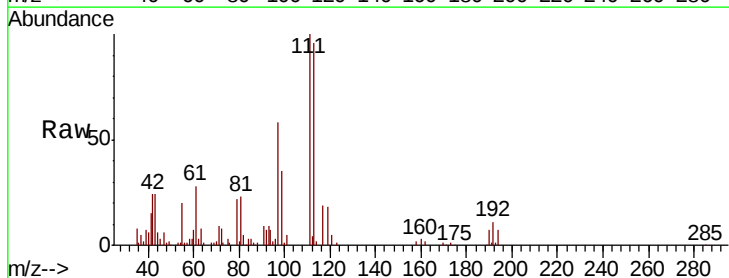
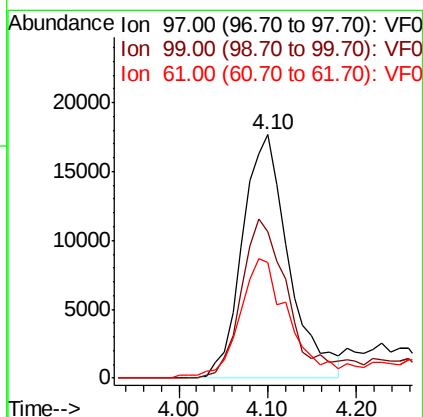
Manual Integrations
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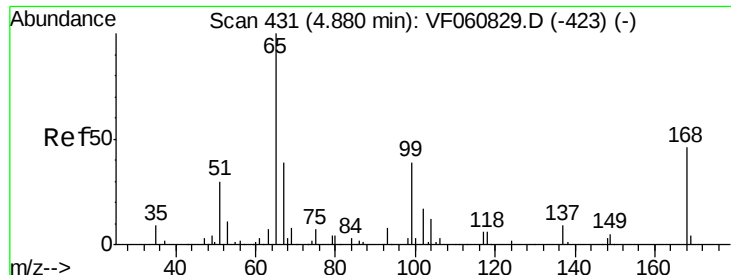
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#32
1,1,1-Trichloroethane
Concen: 20.667 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.9	53.5	80.3
61	47.4	38.6	58.0





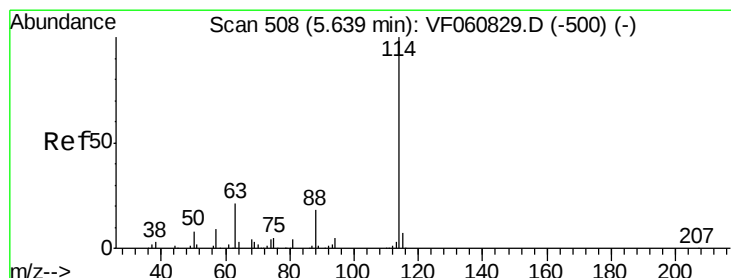
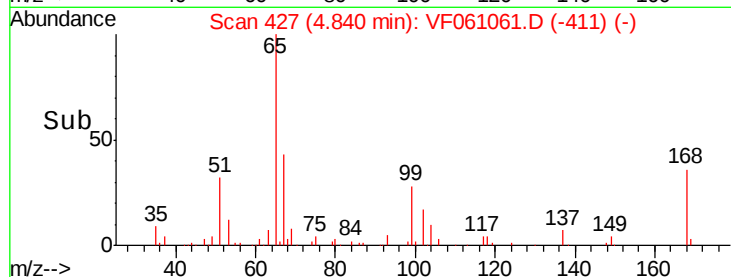
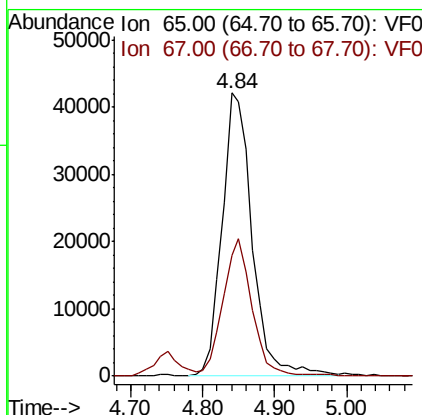
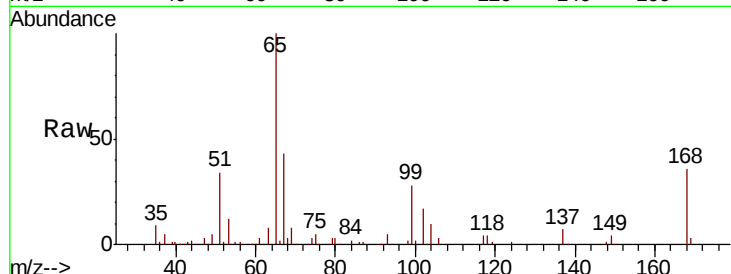
#33
 1,2-Dichloroethane-d4
 Concen: 57.466 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	122360		
67	42.9	0.0	96.4	

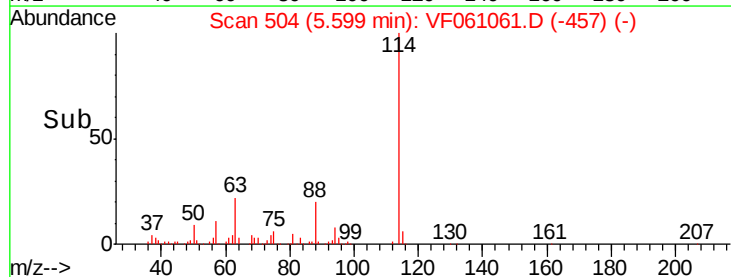
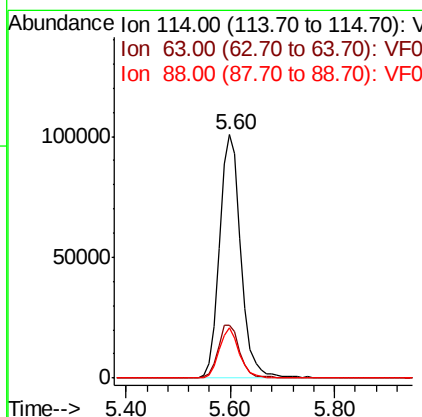
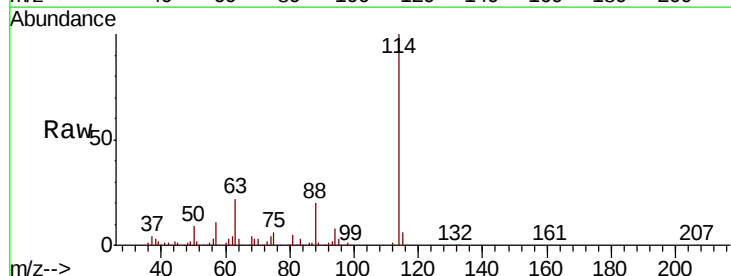
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	285544		
63	21.7	0.0	41.6	
88	20.5	0.0	36.6	





#35

Dibromofluoromethane

Concen: 54.277 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

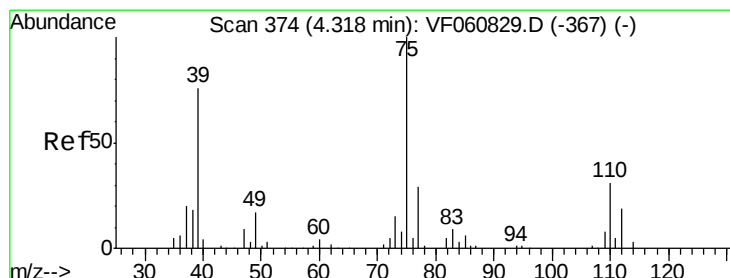
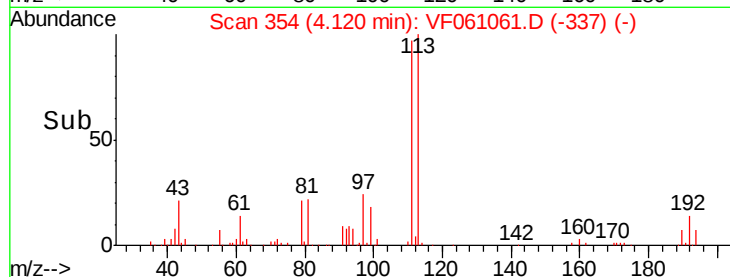
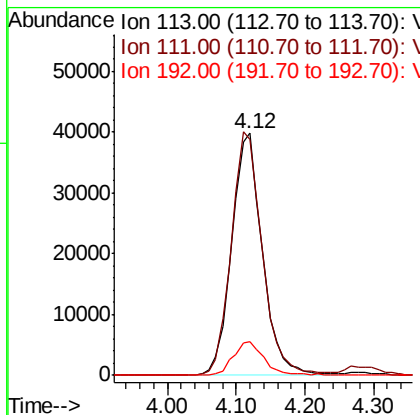
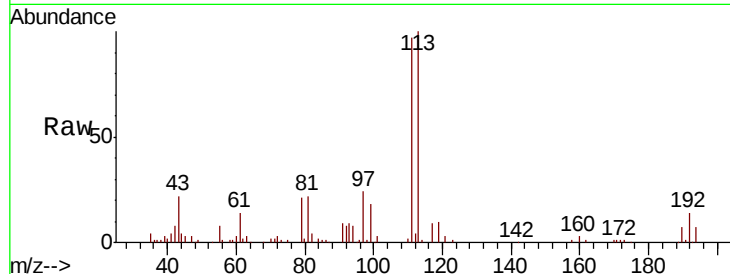
ClientSampleId :

VF1218SBS01

Tot Ion:	113	Resp:	122954
Ion	Ratio	Lower	Upper
113	100		
111	97.3	83.0	124.6
192	14.0	12.3	18.5

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#36

1,1-Dichloropropene

Concen: 25.253 ug/l

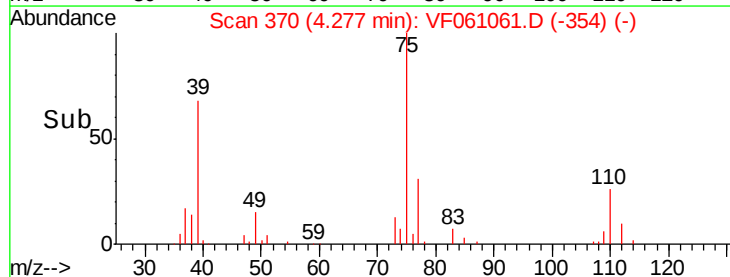
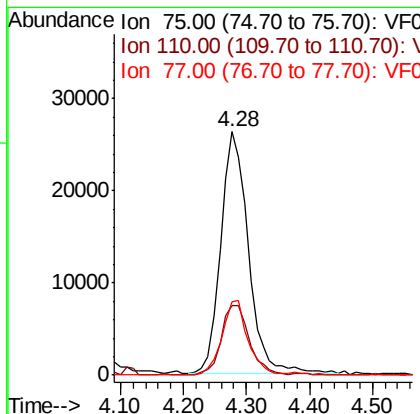
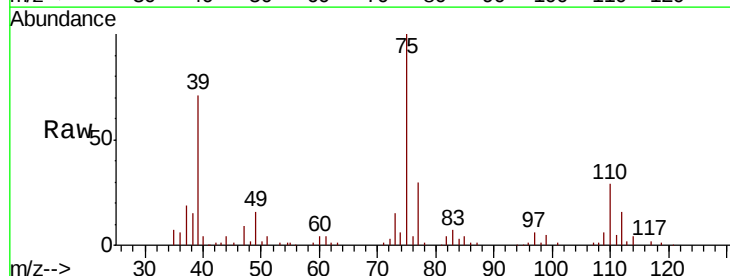
RT: 4.28 min Scan# 370

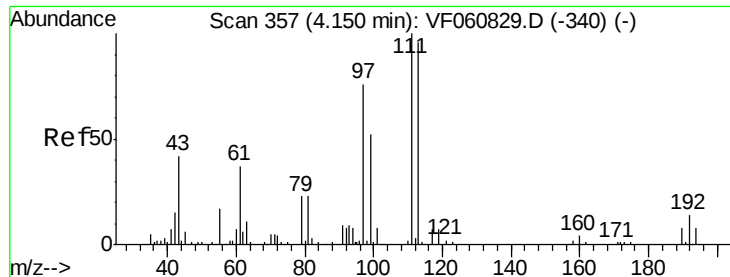
Delta R.T. -0.04 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	75	Resp:	79979
Ion	Ratio	Lower	Upper
75	100		
110	28.7	15.6	46.8
77	30.3	23.4	35.0





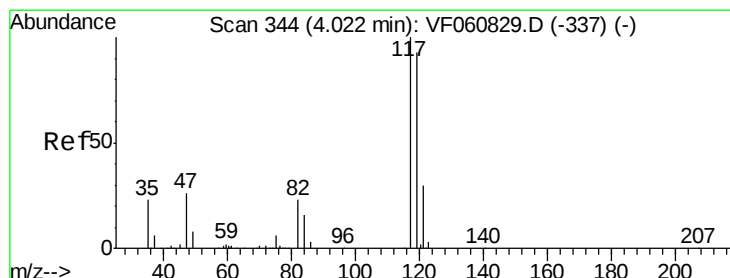
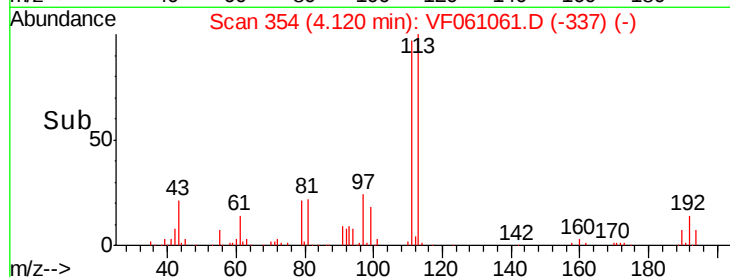
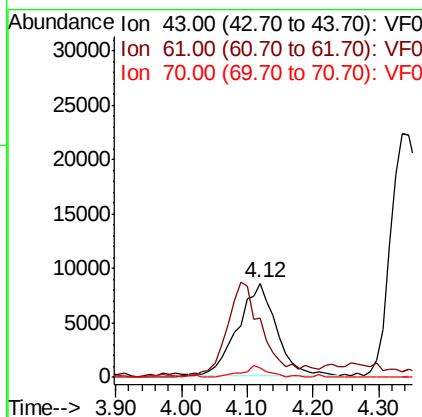
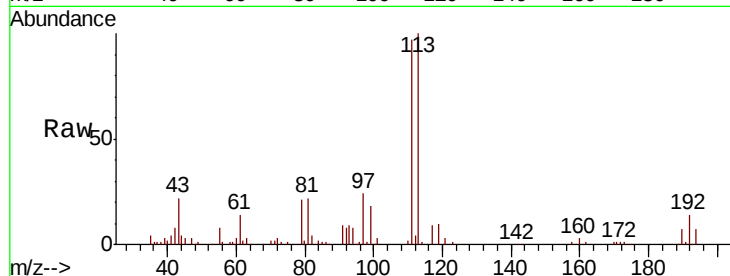
#37
Ethyl Acetate
Concen: 26.531 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	63.5	68.6	103.0#
70	10.0	9.0	13.4

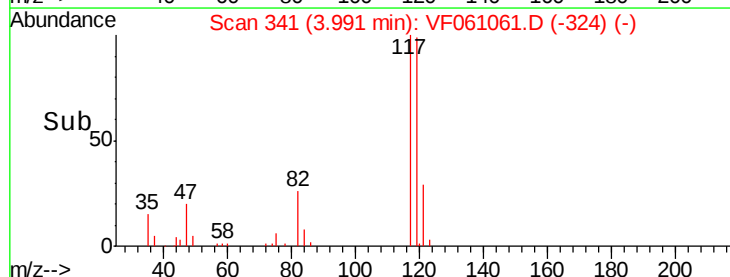
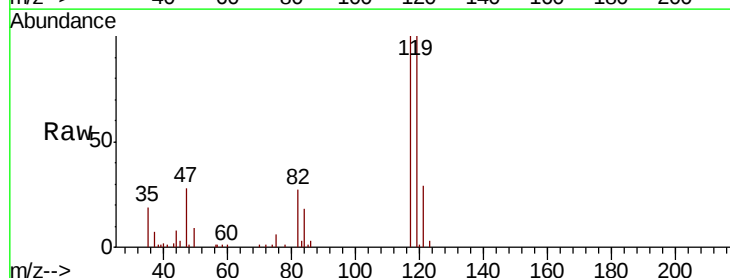
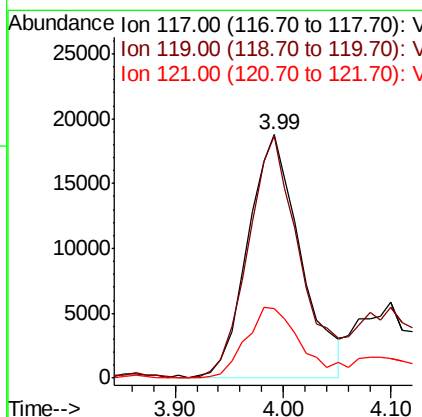
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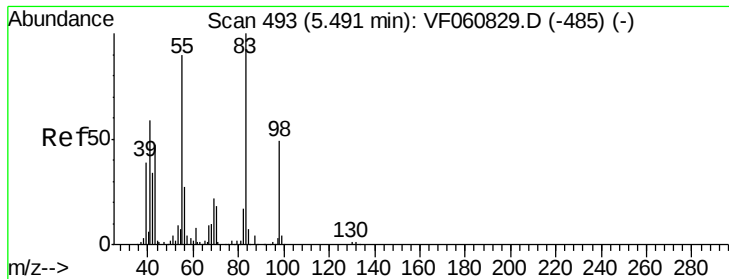
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#38
Carbon Tetrachloride
Concen: 22.833 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.6	74.4	111.6
121	28.6	23.5	35.3





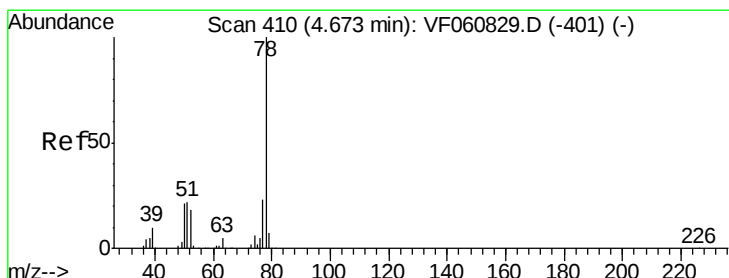
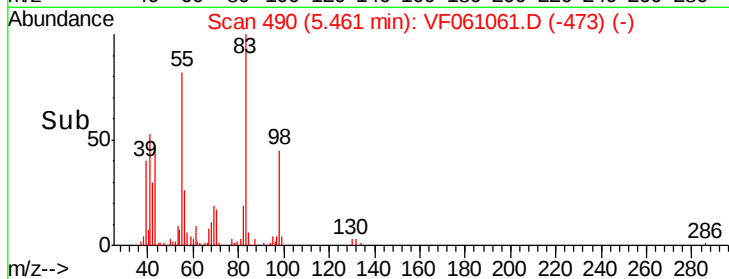
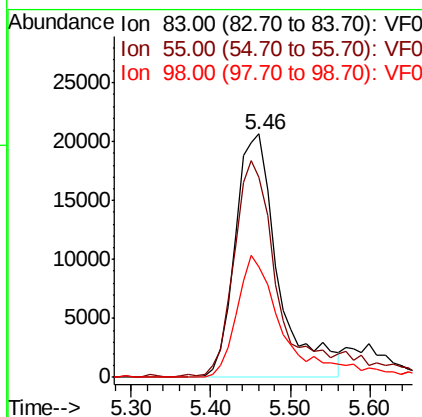
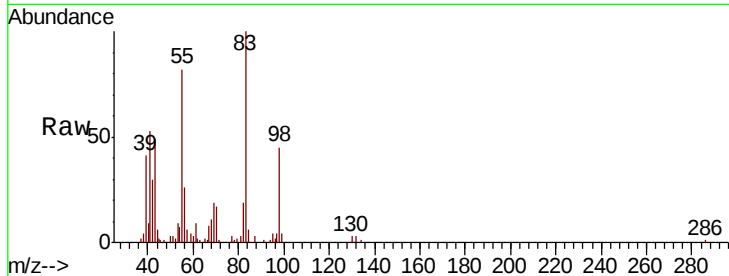
#39
Methvlcvclohexane
Concen: 23.348 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.3	72.1	108.1
98	45.2	39.1	58.7

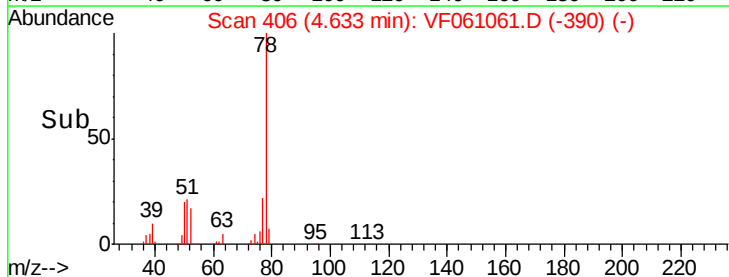
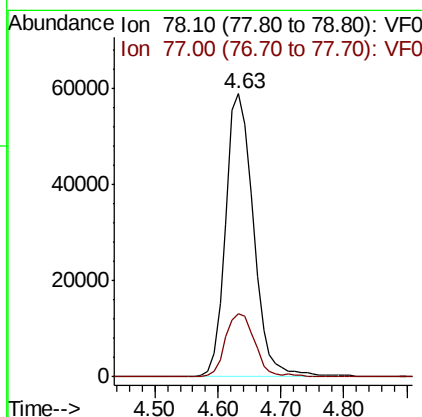
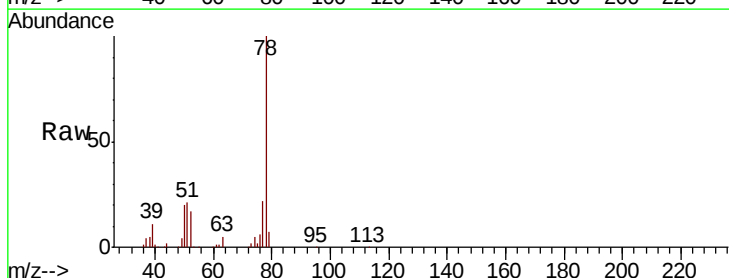
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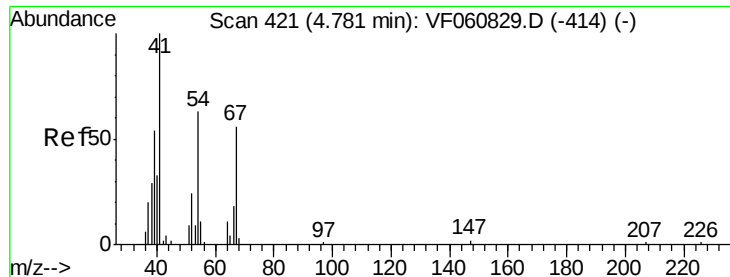
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#40
Benzene
Concen: 25.775 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.7	28.1





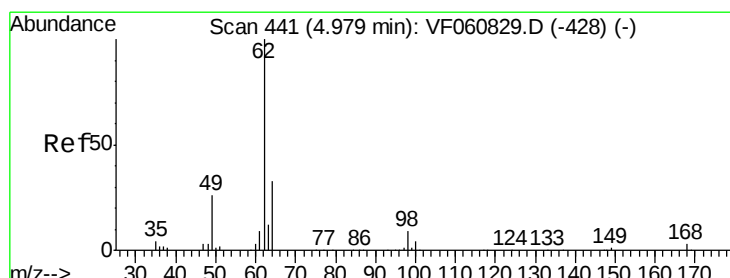
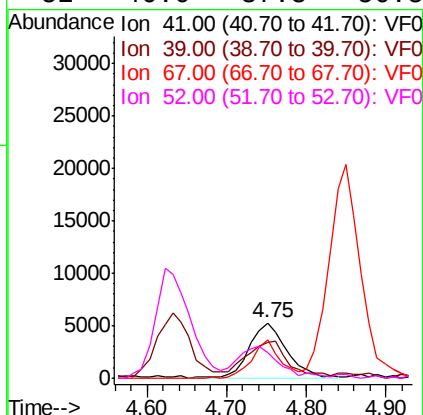
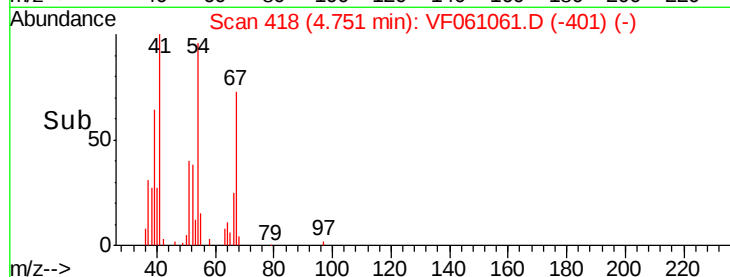
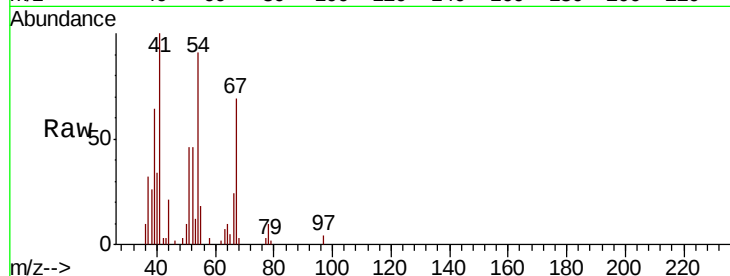
#41
Methacrylonitrile
Concen: 24.021 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.2	53.0	79.6	
67	69.1	43.8	65.6	
52	46.0	37.8	56.8	

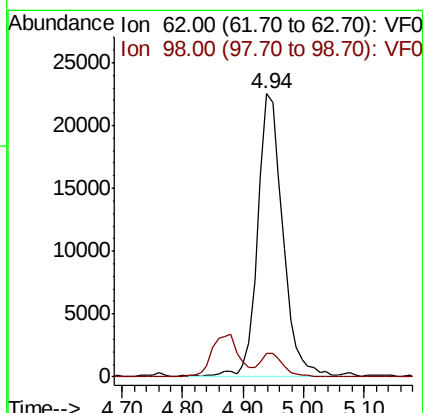
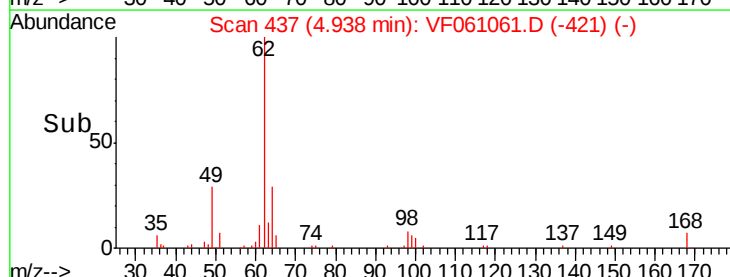
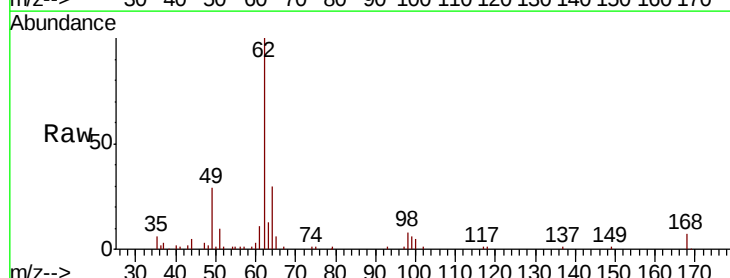
Manual Integrations
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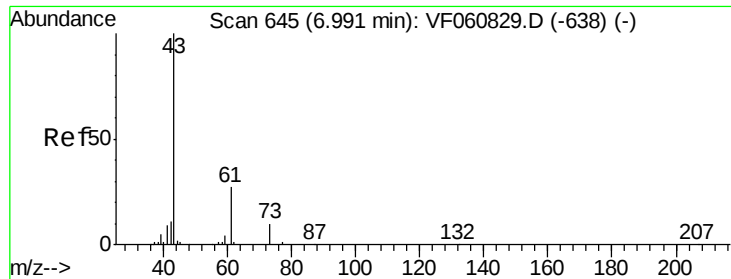
MMDadoda
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#42
1,2-Dichloroethane
Concen: 25.612 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	17.2	





#43

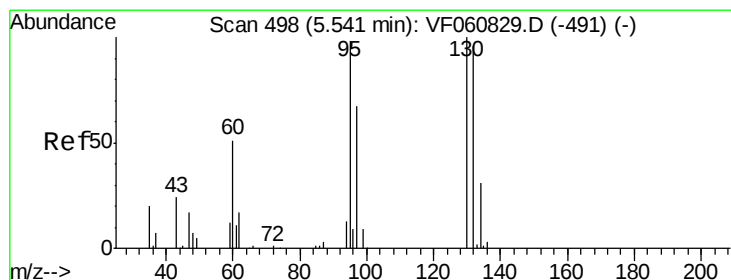
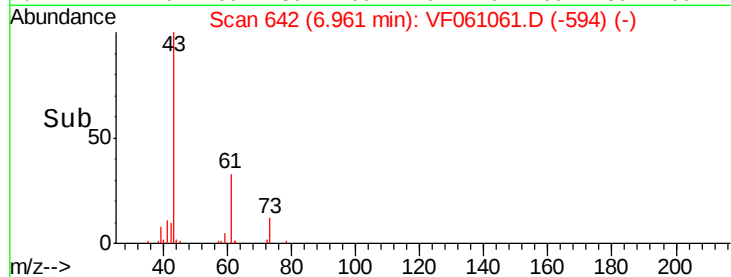
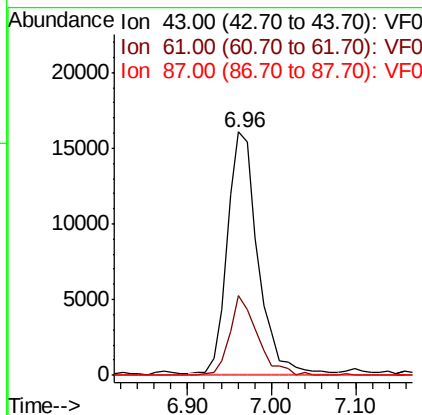
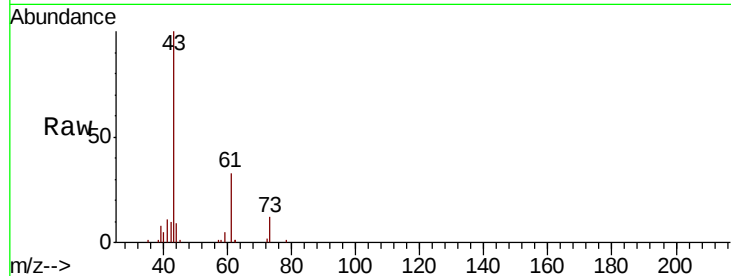
Isopropyl Acetate
 Concen: 23.676 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.7	21.4	32.0#
87	0.0	0.2	0.4#

Manual Integrations
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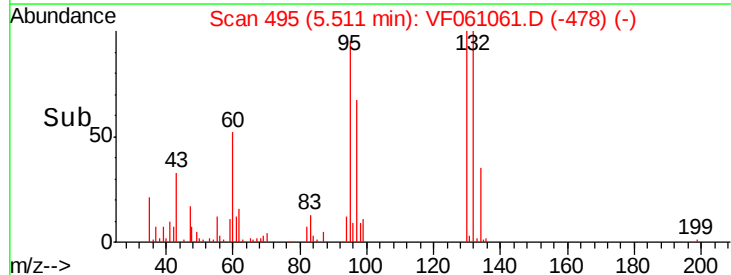
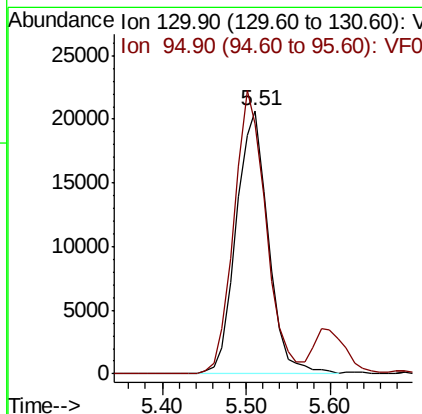
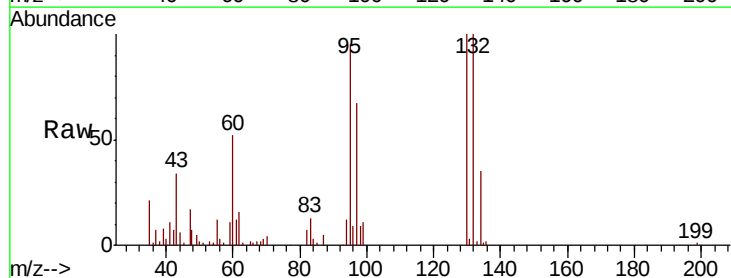
MMDadoda
 12/19/2018 2:15:09 PM

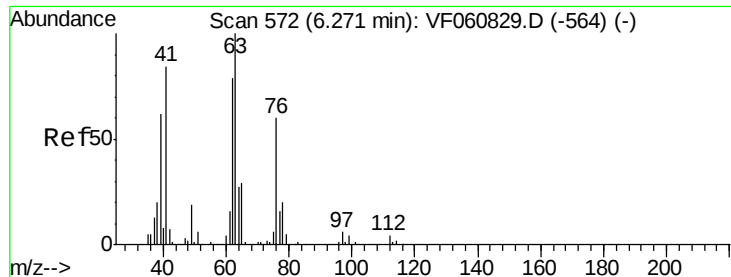


#44

Trichloroethene
 Concen: 24.011 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	195.6





#45

1,2-Dichloropropane

Concen: 26.380 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 63 Resp: 47938

Ion Ratio Lower Upper

63 100

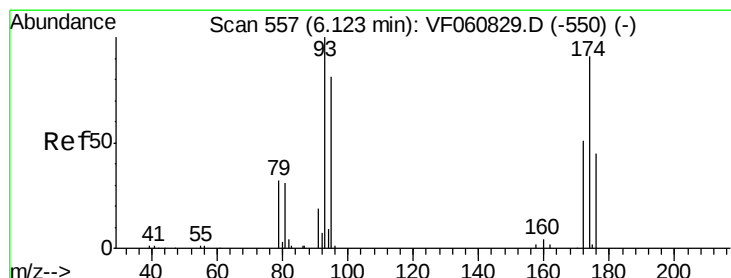
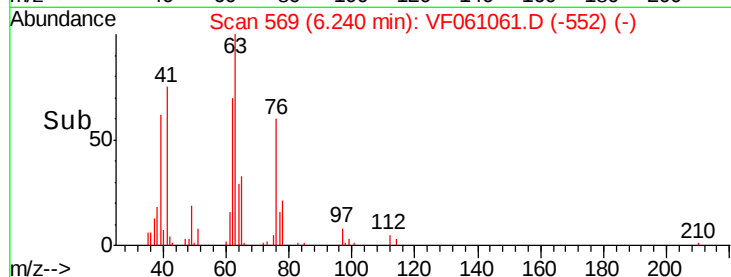
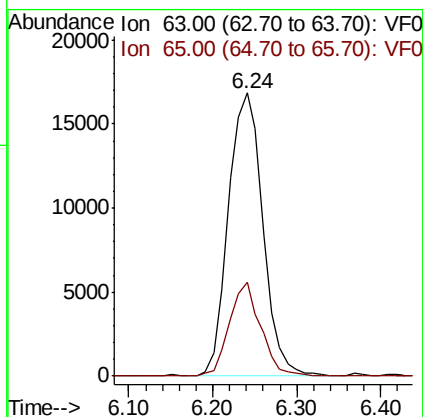
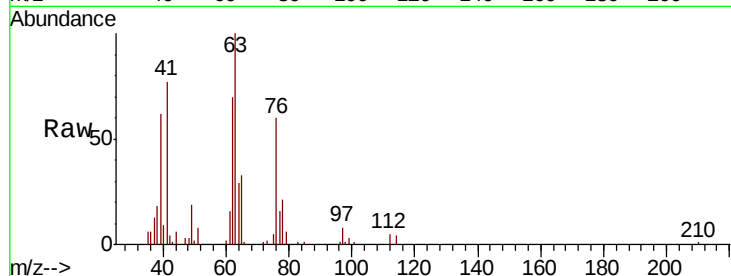
65 33.1 23.2 34.8

Manual Integrations

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#46

Dibromomethane

Concen: 24.784 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

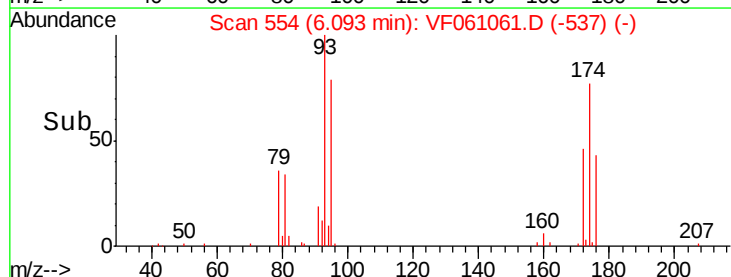
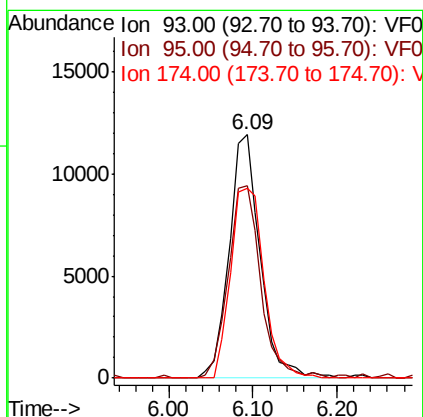
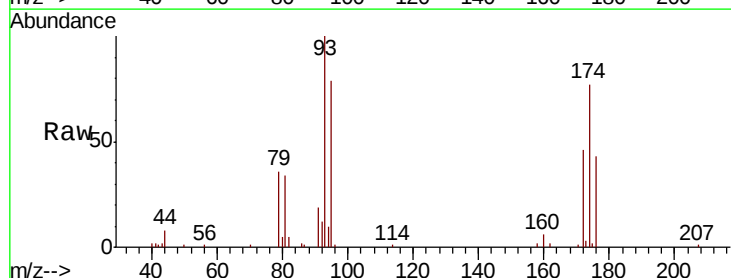
Tgt Ion: 93 Resp: 30552

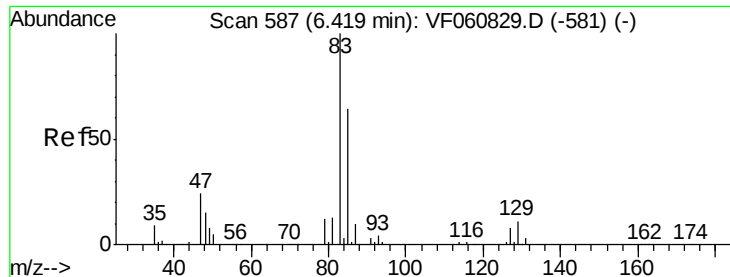
Ion Ratio Lower Upper

93 100

95 79.0 64.7 97.1

174 78.2 73.0 109.6





#47

Bromodichloromethane

Concen: 24.981 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

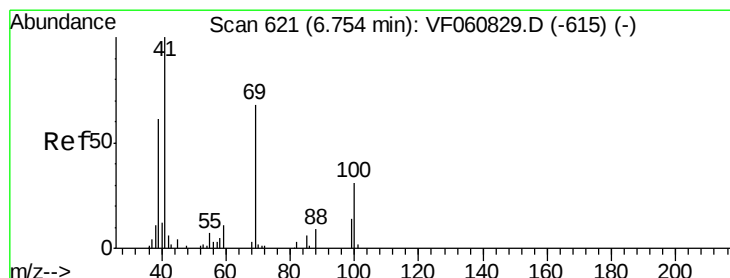
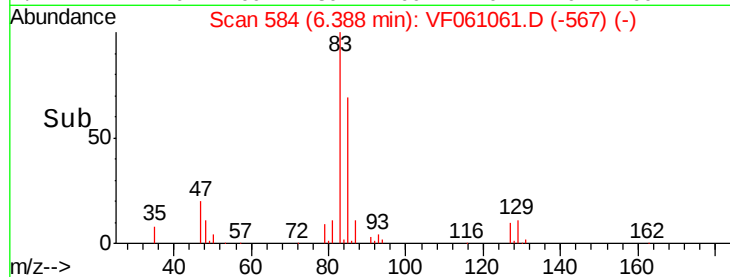
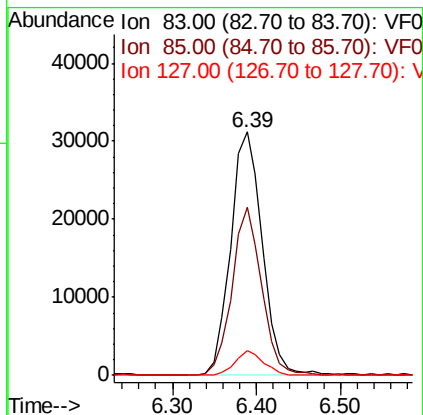
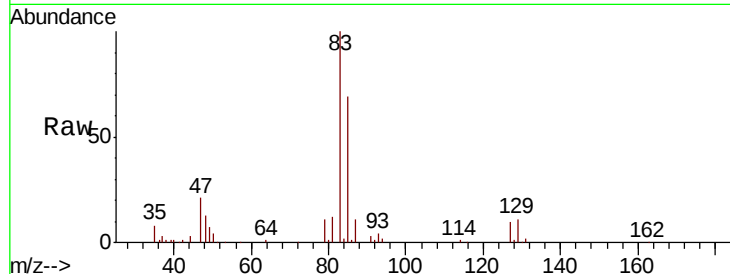
ClientSampleId :

VF1218SBS01

Tot Ion:	83	Resp:	81791
Ion	Ratio	Lower	Upper
83	100		
85	69.1	51.1	76.7
127	9.9	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 23.068 ug/l

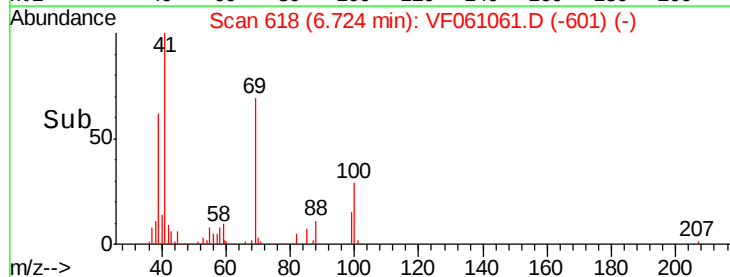
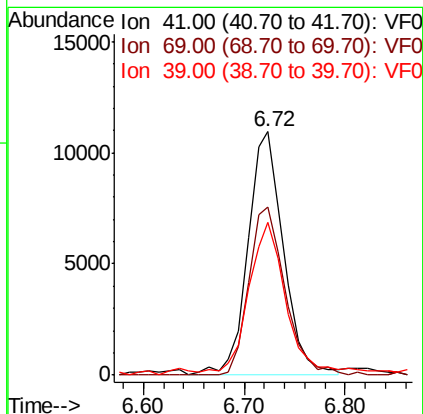
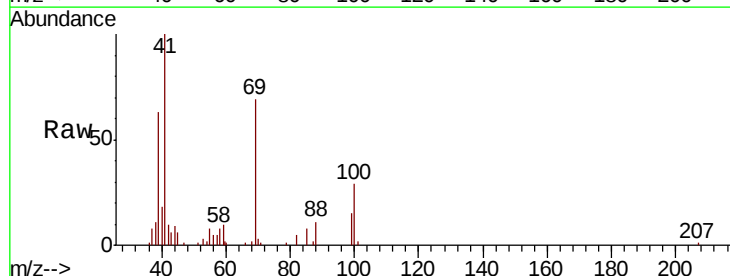
RT: 6.72 min Scan# 618

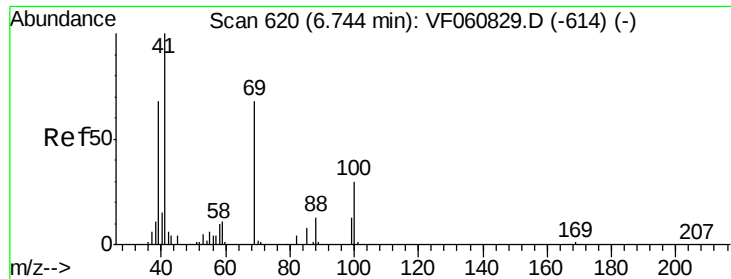
Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	41	Resp:	26874
Ion	Ratio	Lower	Upper
41	100		
69	69.1	53.9	80.9
39	62.7	49.0	73.6





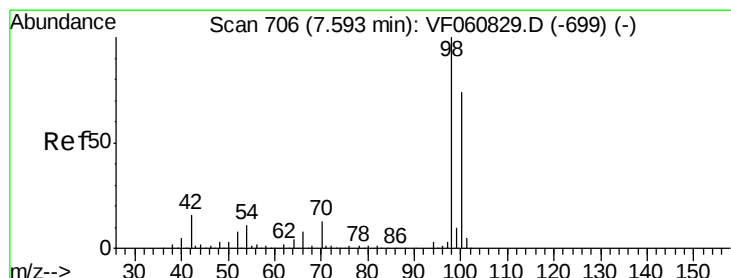
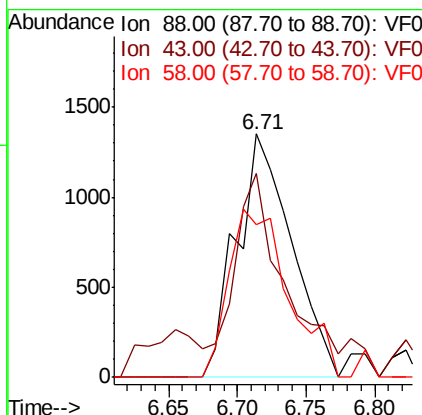
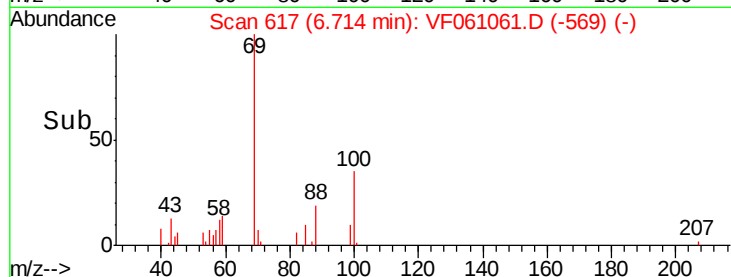
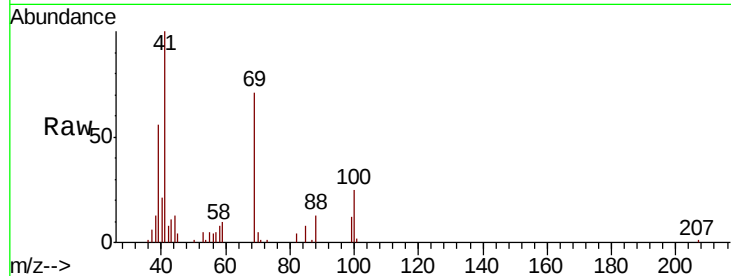
#49
1,4-Dioxane
Concen: 440.284 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	83.9	42.0	63.0#	
58	62.7	61.8	92.8	

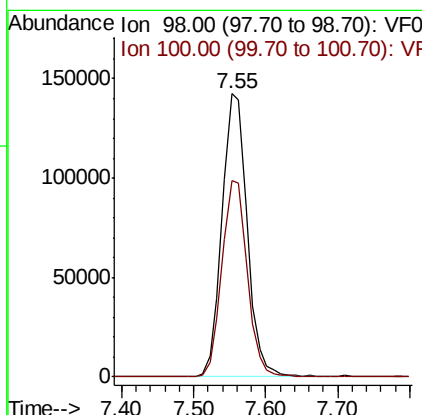
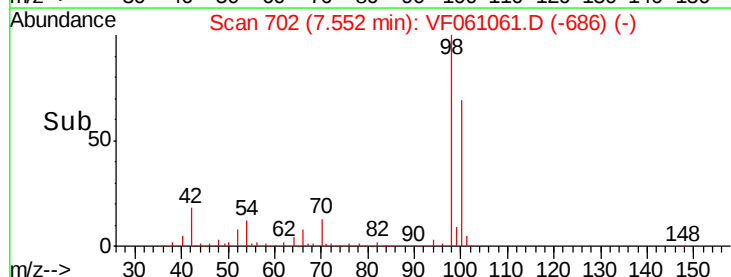
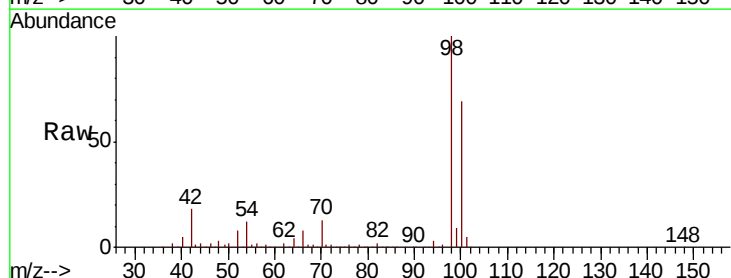
Manual Integrations
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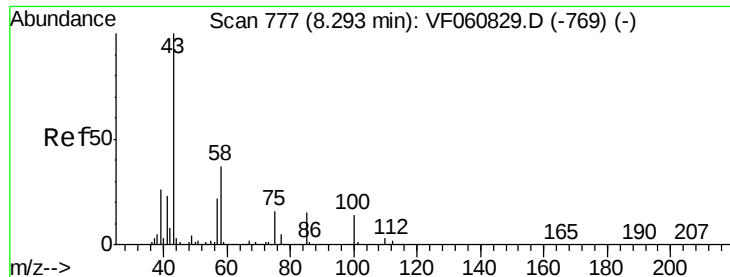
MMDadoda
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#50
Toluene-d8
Concen: 51.752 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	69.3	59.3	88.9	





#51

4-Methyl-2-Pentanone

Concen: 130.470 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 43 Resp: 154850

Ion Ratio Lower Upper

43 100

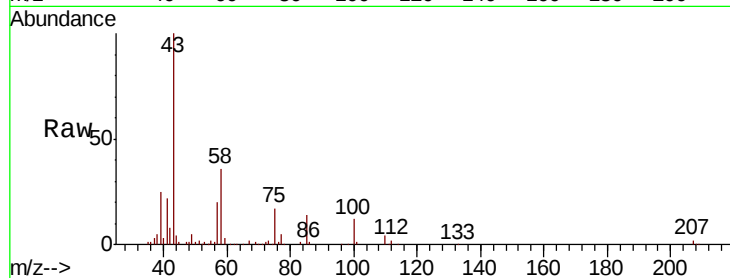
58 35.9 29.7 44.5

Manual Integrations

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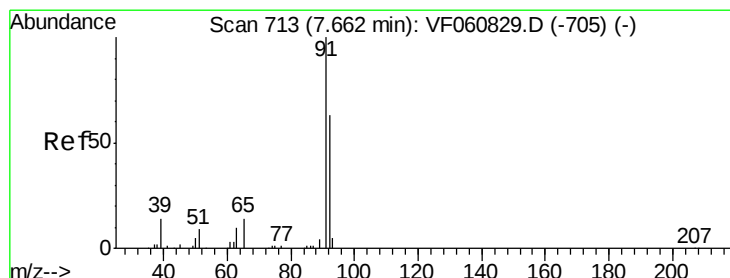
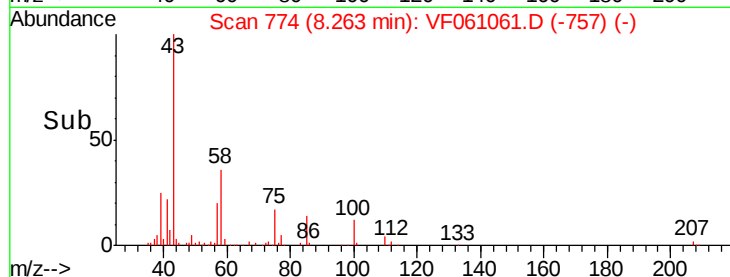
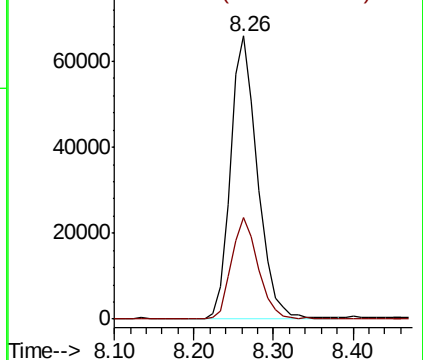
MMDadoda

12/19/2018 2:15:09 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 23.094 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061061.D

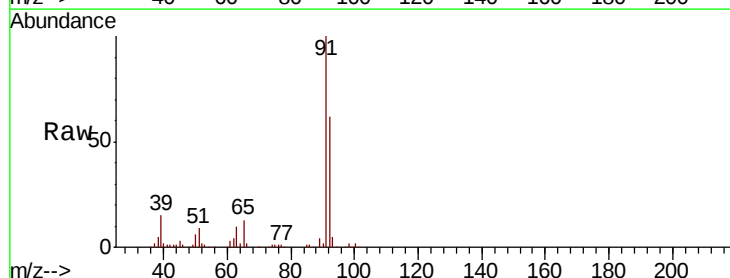
Acq: 18 Dec 2018 14:29

Tgt Ion: 92 Resp: 113499

Ion Ratio Lower Upper

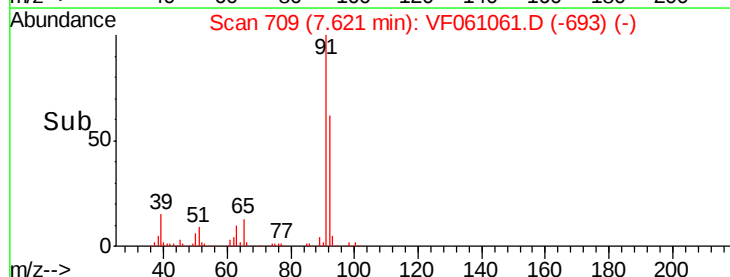
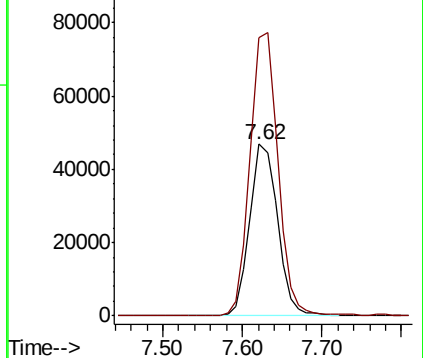
92 100

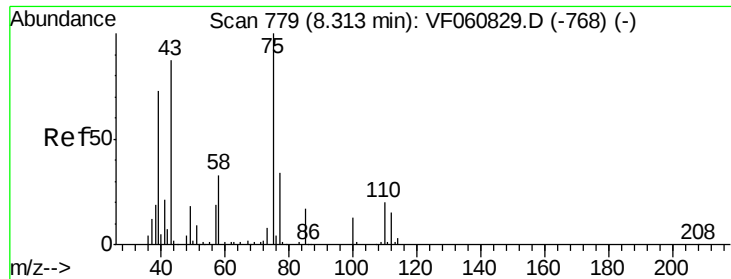
91 161.7 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





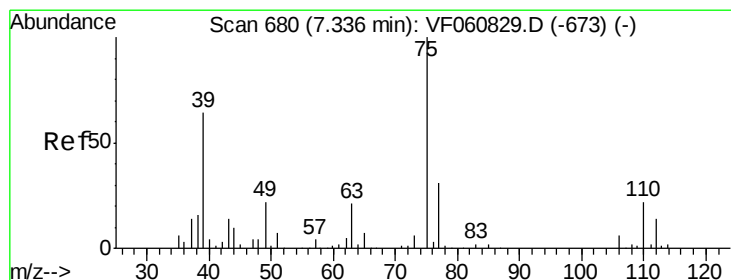
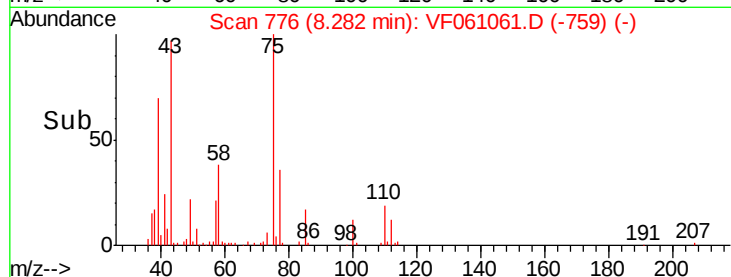
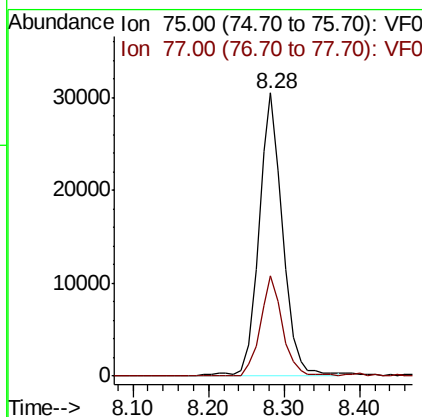
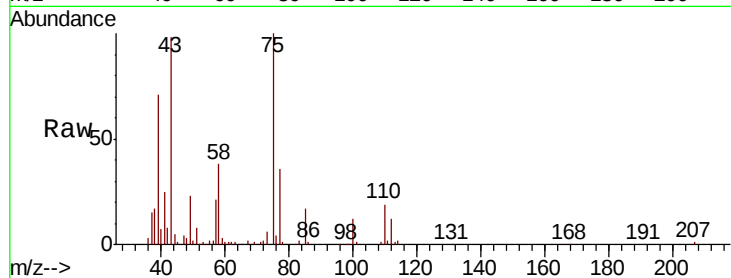
#53
 t-1,3-Dichloropropene
 Concen: 25.111 ug/l
 RT: 8.28 min Scan# 776
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion: 75 Resp: 66874
 Ion Ratio Lower Upper
 75 100
 77 35.6 27.4 41.2

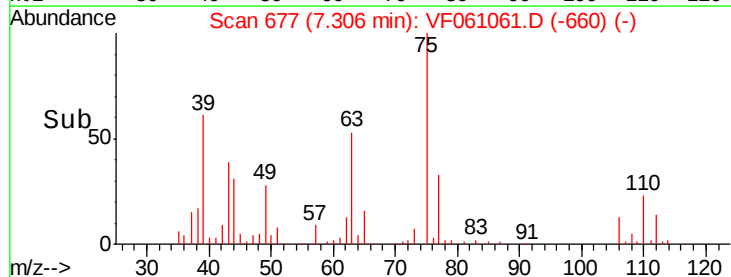
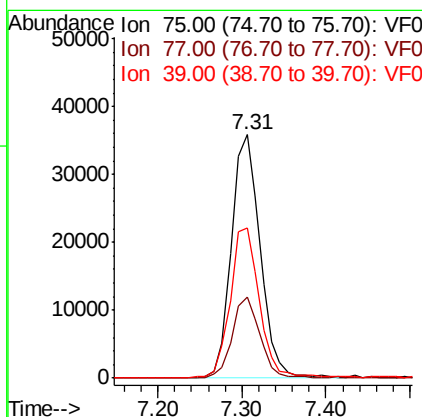
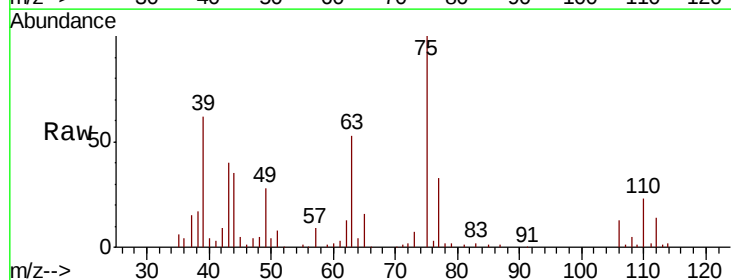
Manual Integrations
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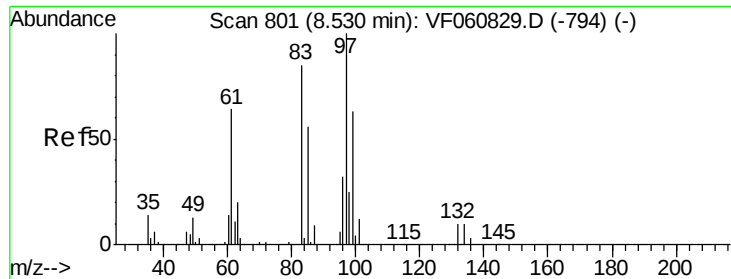
MMDadoda
 12/19/2018 2:15:09 PM



#54
 cis-1,3-Dichloropropene
 Concen: 25.952 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion: 75 Resp: 85564
 Ion Ratio Lower Upper
 75 100
 77 33.3 25.0 37.6
 39 61.6 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 24.982 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

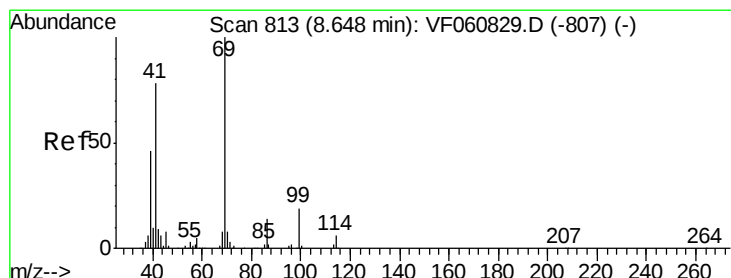
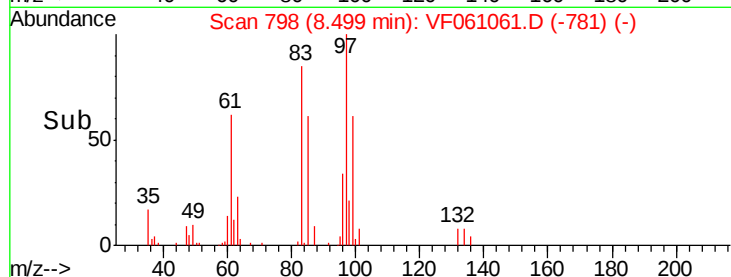
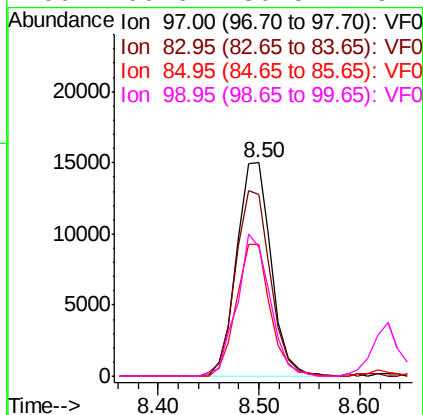
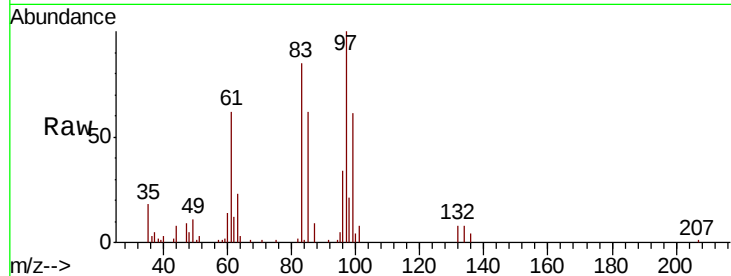
ClientSampleId :

VF1218SBS01

Tot Ion:	97	Resp:	35777
Ion	Ratio	Lower	Upper
97	100		
83	85.0	67.8	101.6
85	61.5	45.0	67.6
99	60.6	50.5	75.7

Manual Integrations
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#56

Ethyl methacrylate

Concen: 24.144 ug/l

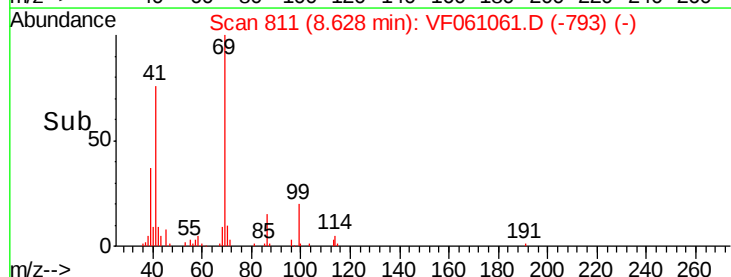
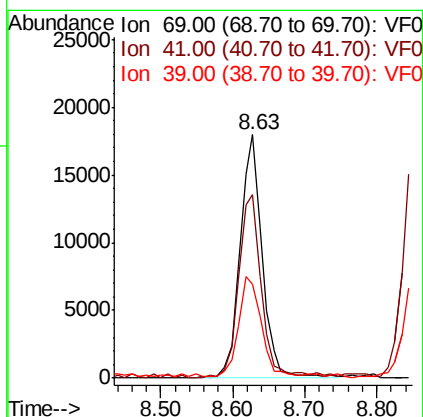
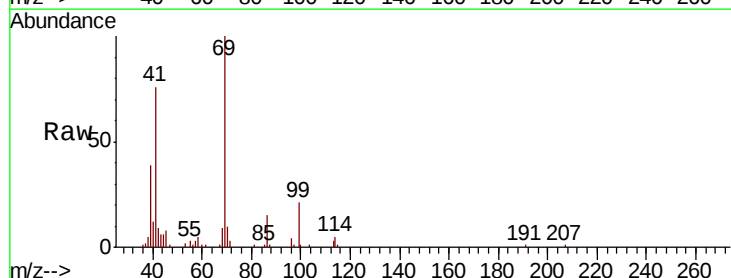
RT: 8.63 min Scan# 811

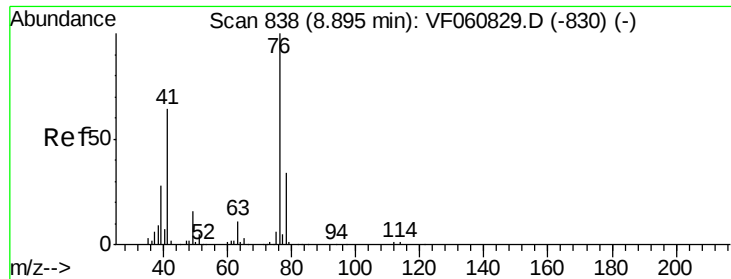
Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	69	Resp:	38410
Ion	Ratio	Lower	Upper
69	100		
41	75.5	62.6	94.0
39	38.6	37.8	56.6





#57

1,3-Dichloropropane

Concen: 25.998 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 76 Resp: 65137

Ion Ratio Lower Upper

76 100

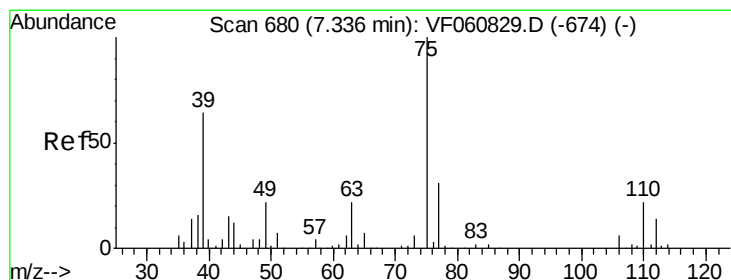
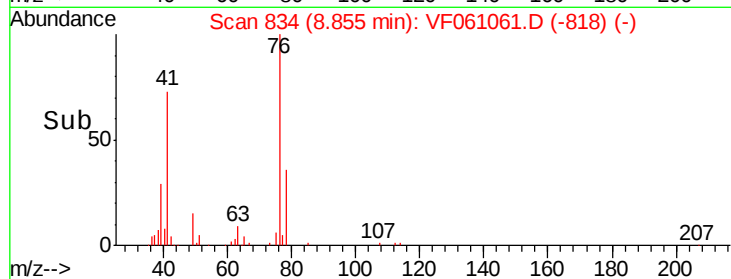
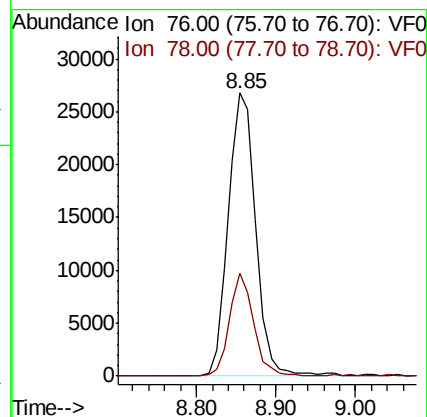
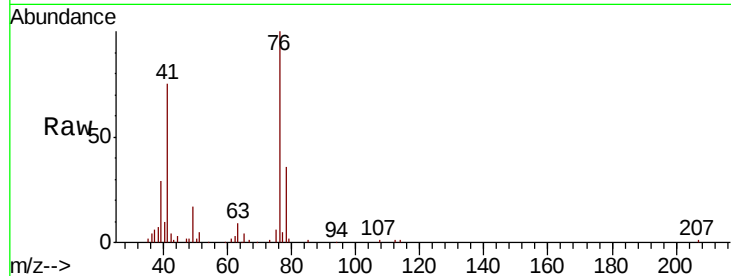
78 36.3 27.0 40.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 291.434 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF061061.D

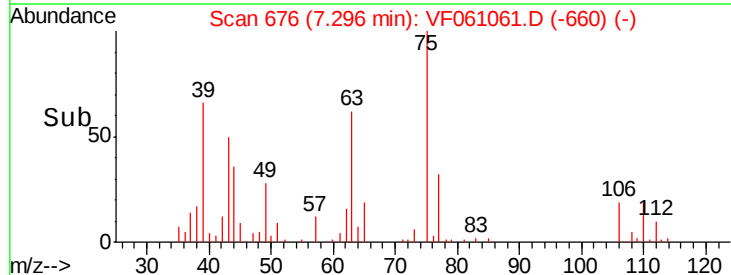
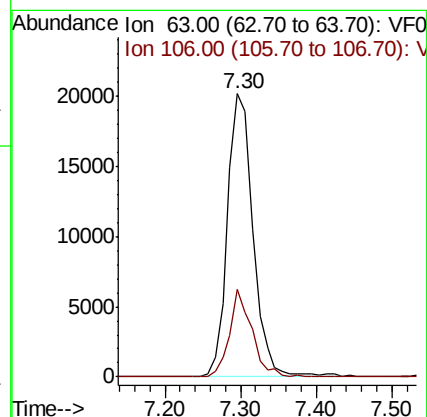
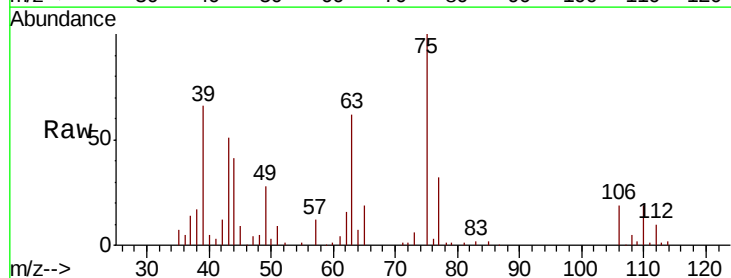
Acq: 18 Dec 2018 14:29

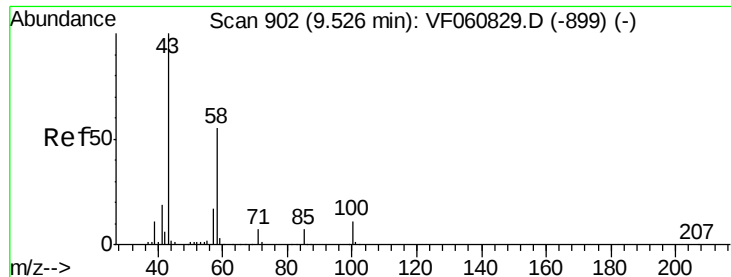
Tgt Ion: 63 Resp: 47423

Ion Ratio Lower Upper

63 100

106 30.8 23.0 34.6





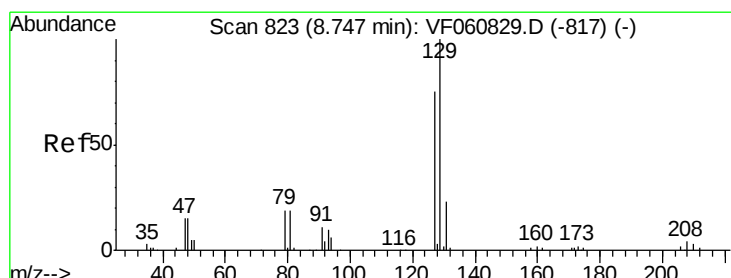
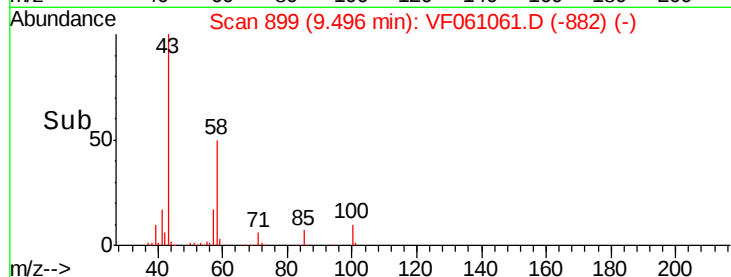
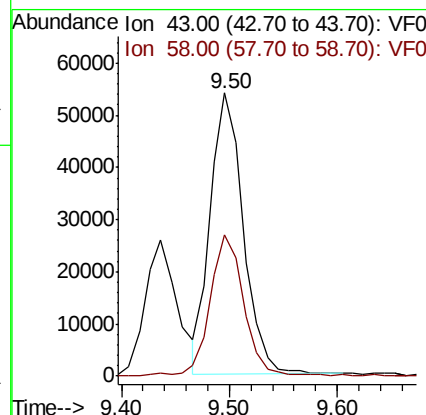
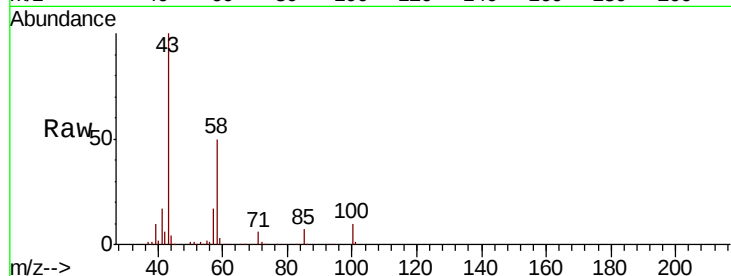
#59
2-Hexanone
Concen: 137.049 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.6	76.6

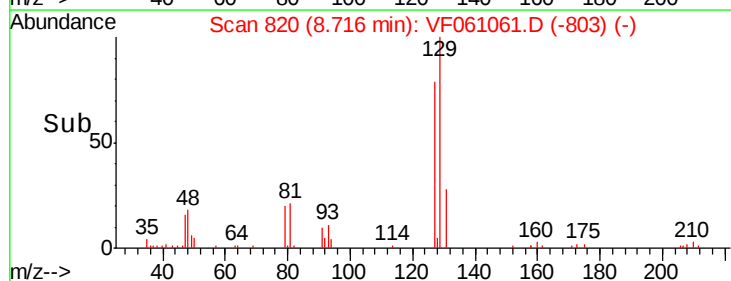
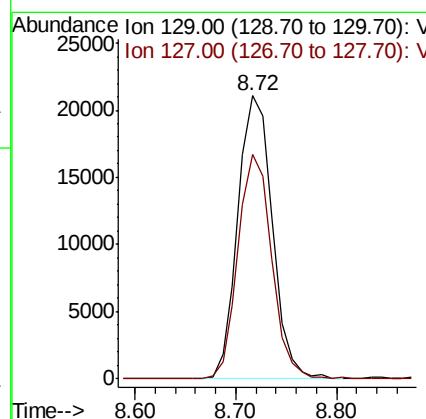
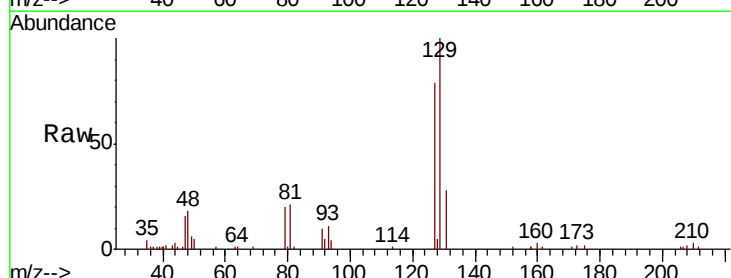
Manual Integrations
APPROVED

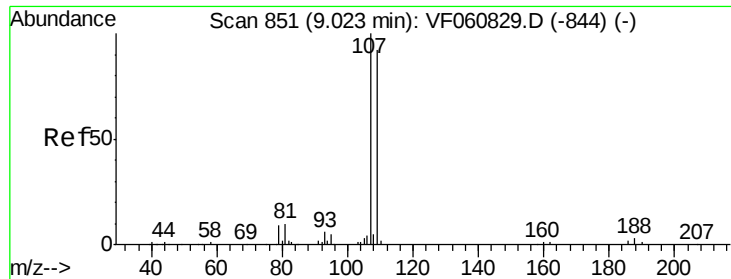
MMDadoda
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#60
Dibromochloromethane
Concen: 23.559 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	37.3	111.9





#61

1,2-Dibromoethane

Concen: 24.146 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion:107 Resp: 37355

Ion Ratio Lower Upper

107 100

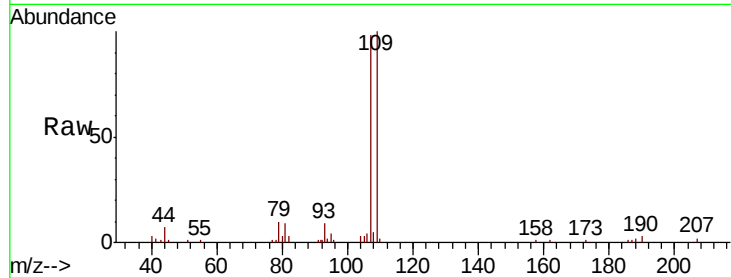
109 102.5 73.6 110.4

Manual Integrations

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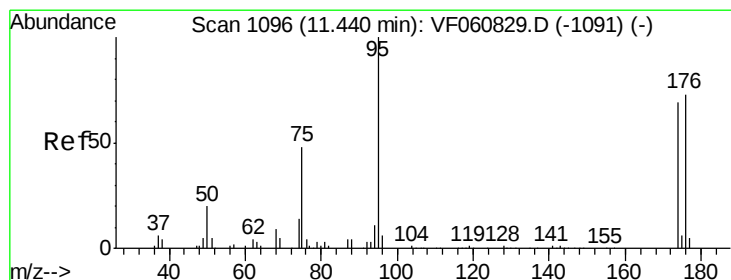
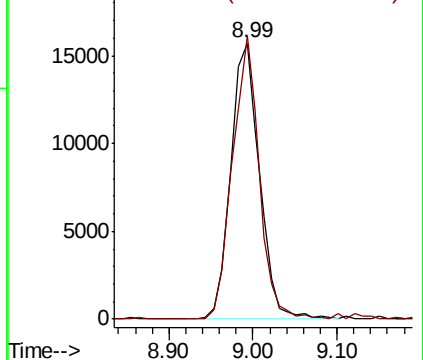
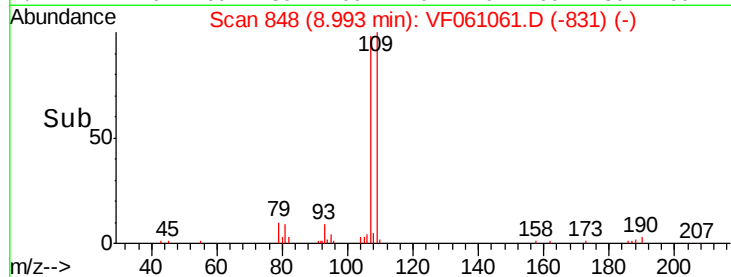
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.775 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

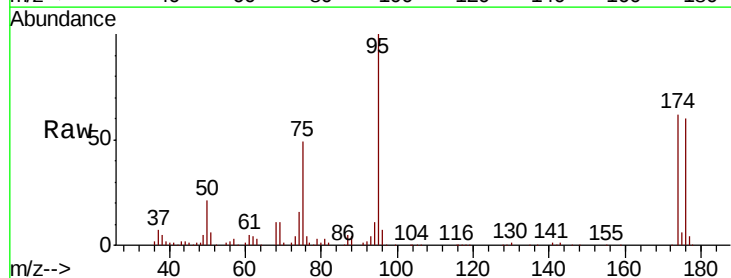
Tgt Ion: 95 Resp: 160053

Ion Ratio Lower Upper

95 100

174 62.0 0.0 138.2

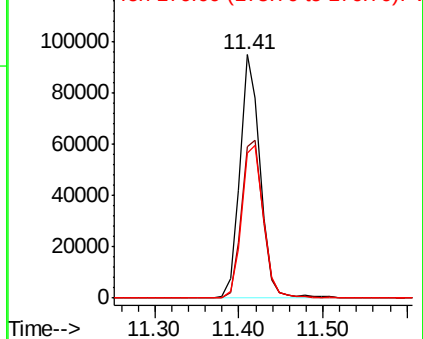
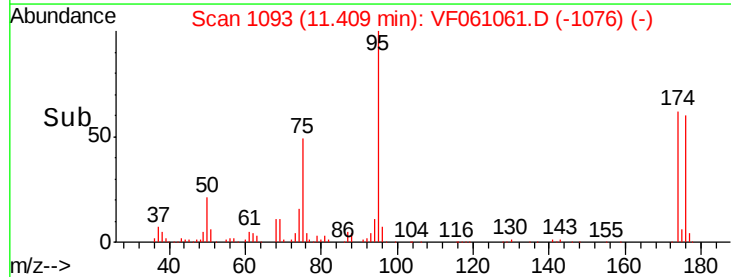
176 59.7 0.0 146.2

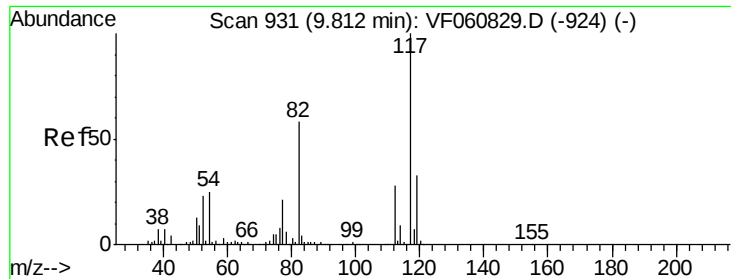


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





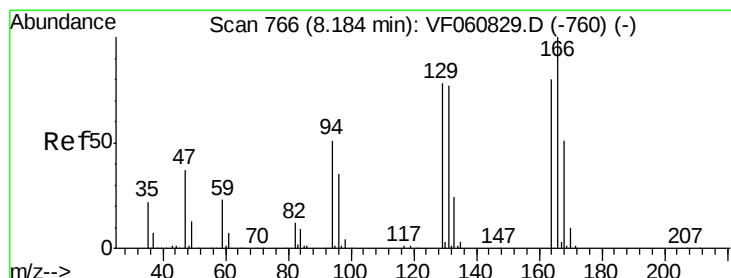
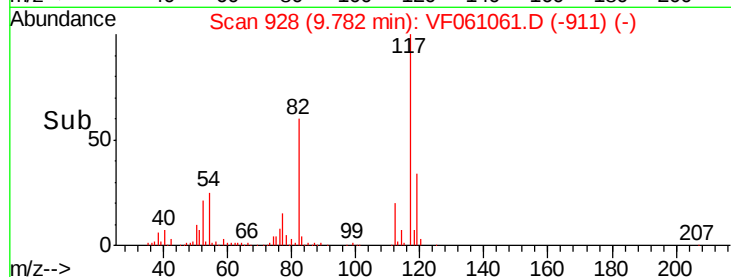
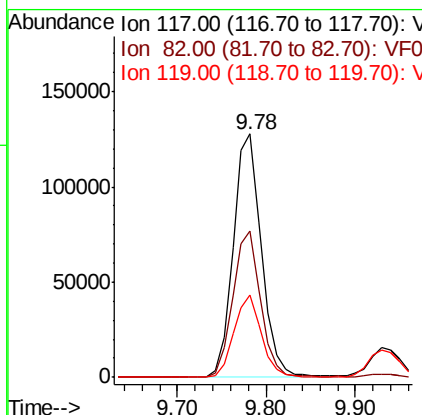
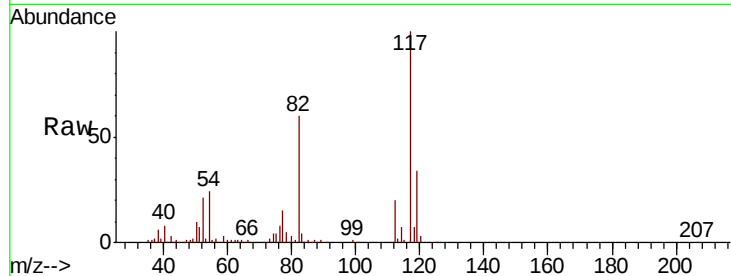
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	282623		
82	59.8		46.6	69.8
119	33.6		26.4	39.6

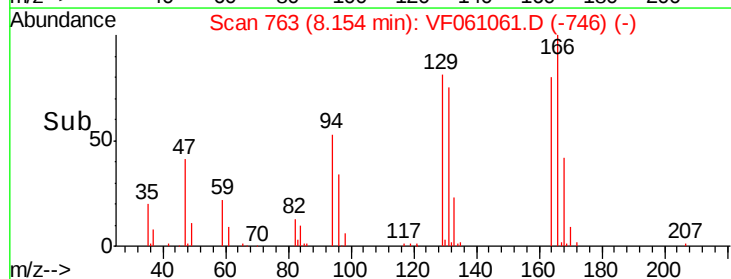
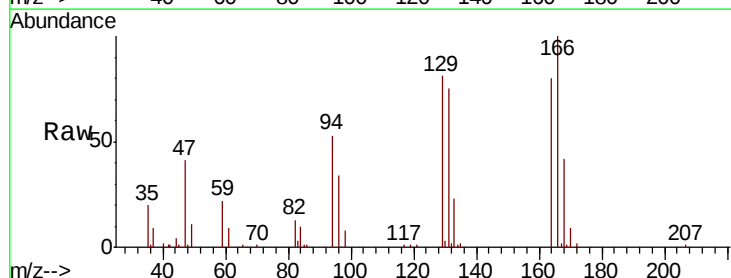
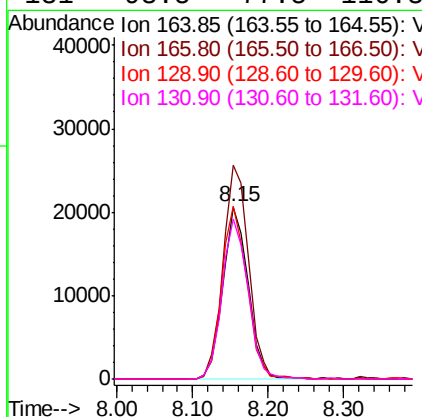
Manual Integrations
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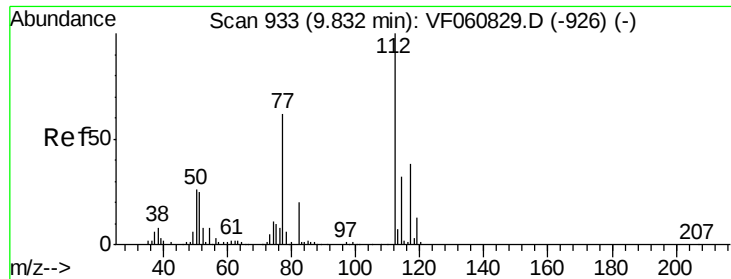
MMDadoda
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#64
Tetrachloroethene
Concen: 22.129 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	47769		
166	124.4		100.3	150.5
129	100.8		77.9	116.9
131	93.5		77.5	116.3





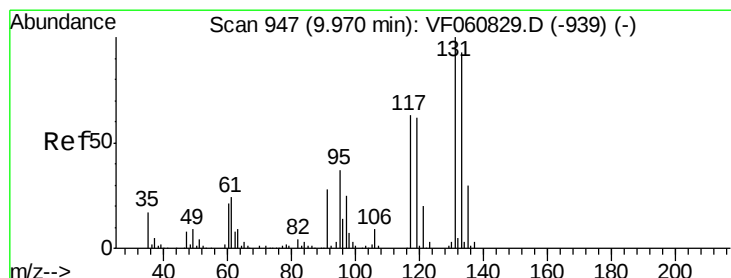
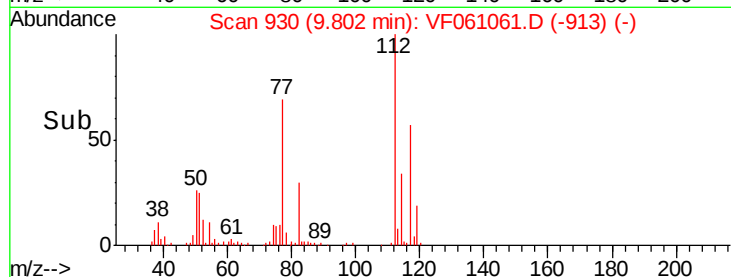
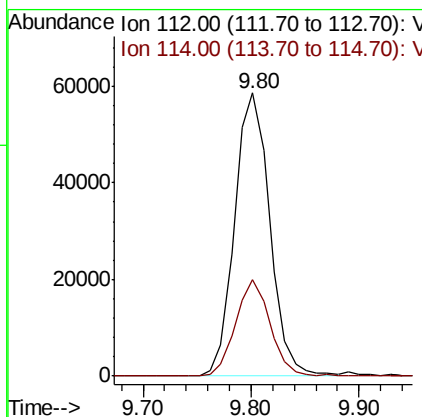
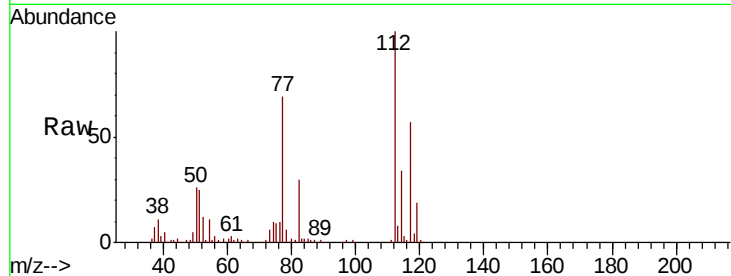
#65
Chlorobenzene
Concen: 24.131 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion:112 Resp: 132677
Ion Ratio Lower Upper
112 100
114 34.3 26.0 39.0

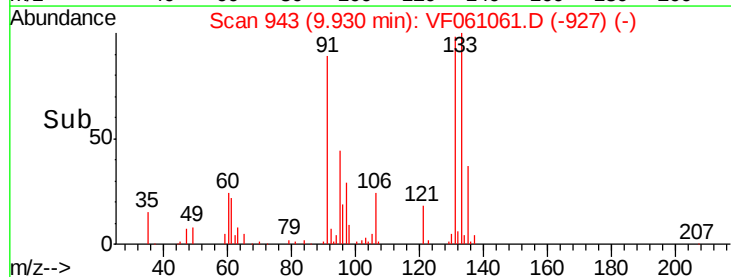
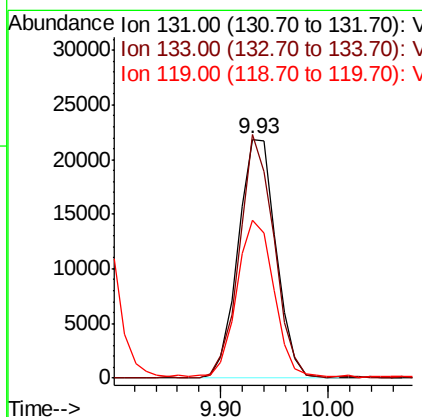
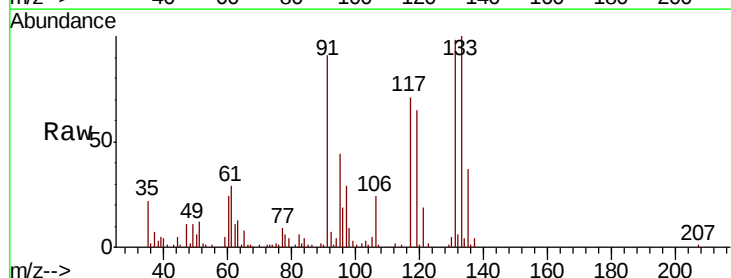
Manual Integrations
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.528 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.04 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion:131 Resp: 53247
Ion Ratio Lower Upper
131 100
133 101.8 46.5 139.3
119 65.9 31.1 93.3





#67

Ethyl Benzene

Concen: 24.589 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 91 Resp: 251683

Ion Ratio Lower Upper

91 100

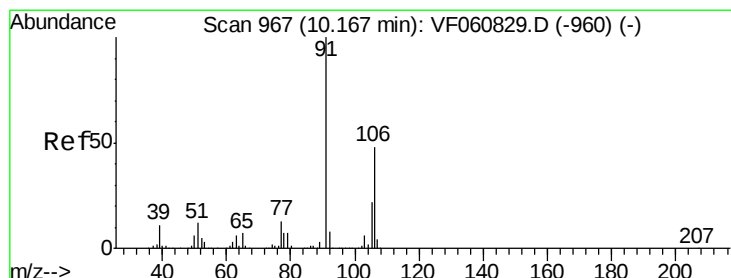
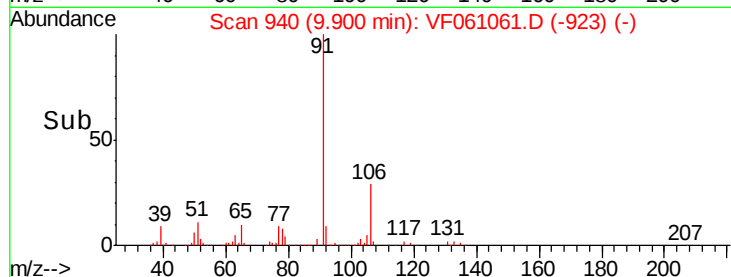
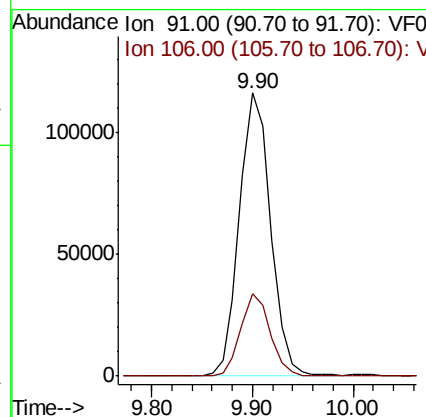
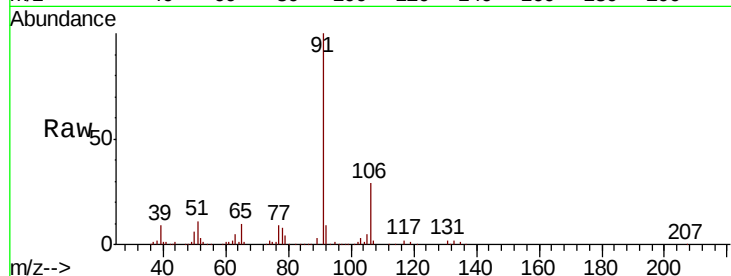
106 29.3 22.2 33.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 45.425 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF061061.D

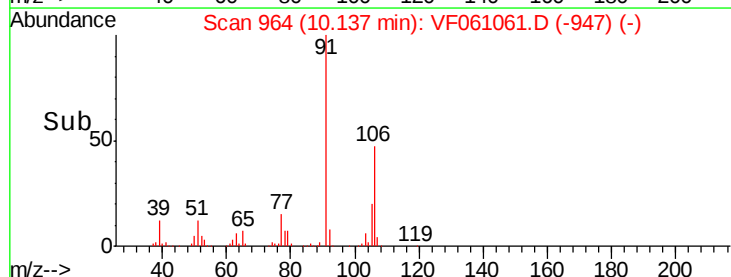
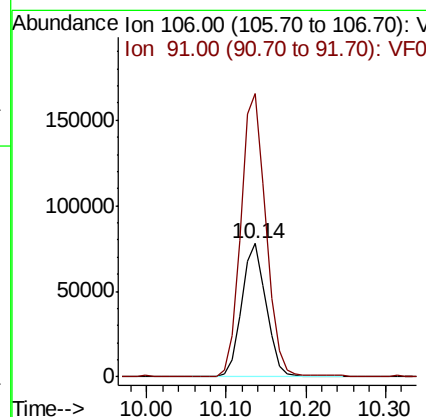
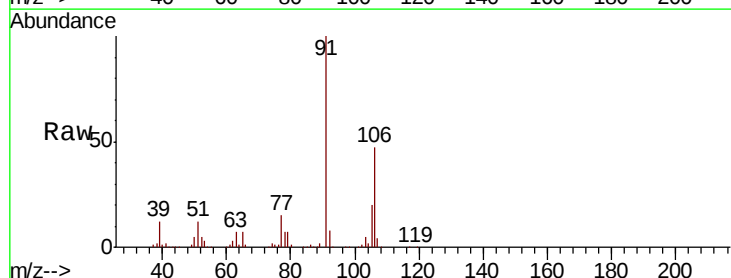
Acq: 18 Dec 2018 14:29

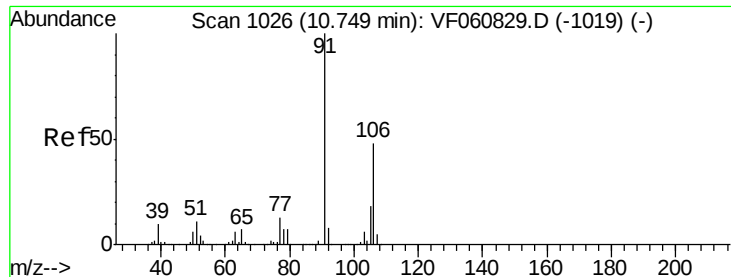
Tgt Ion: 106 Resp: 167228

Ion Ratio Lower Upper

106 100

91 212.4 166.7 250.1





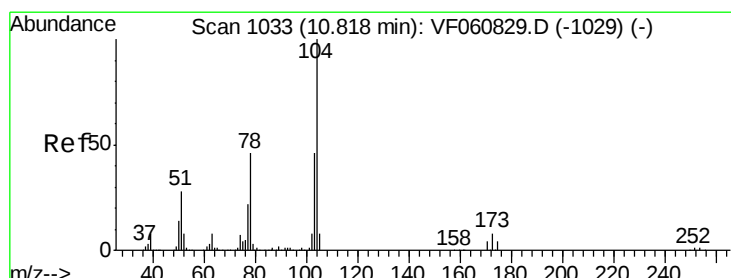
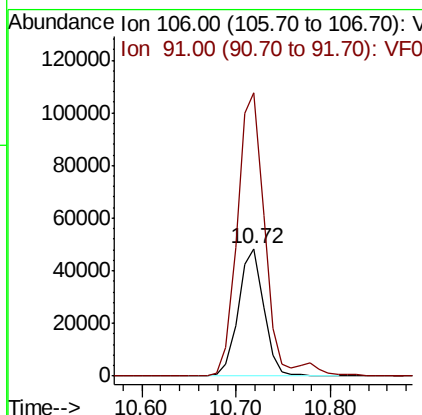
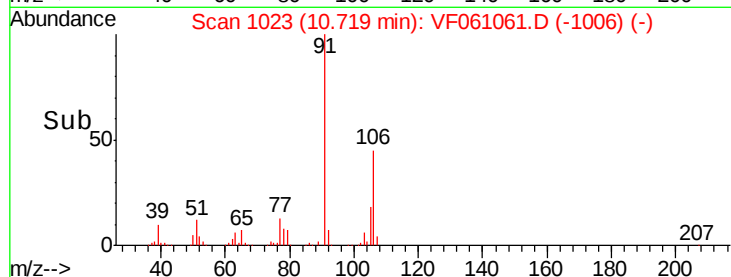
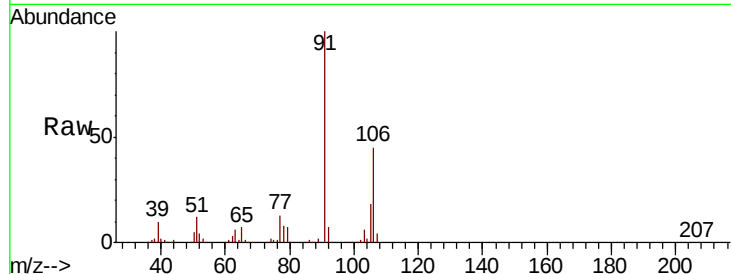
#69
o-Xylene
Concen: 22.468 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion:106 Resp: 91209
Ion Ratio Lower Upper
106 100
91 221.4 104.8 314.6

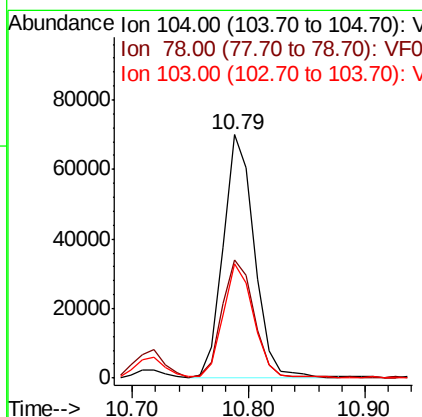
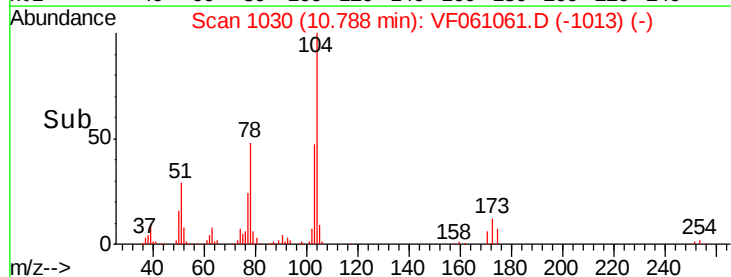
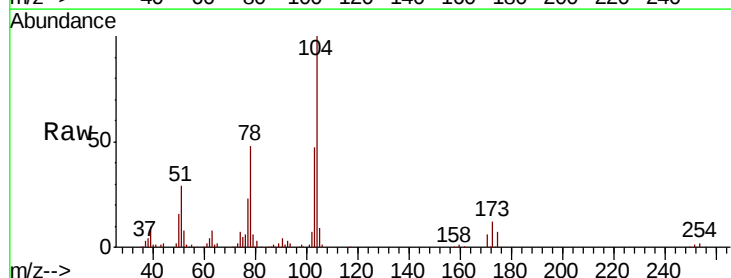
Manual Integrations
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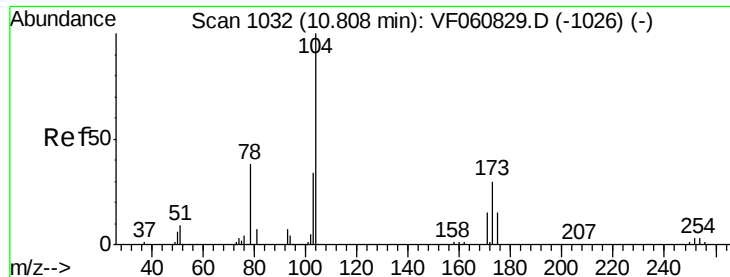
MMDadoda
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#70
Styrene
Concen: 23.012 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion:104 Resp: 129497
Ion Ratio Lower Upper
104 100
78 48.3 37.3 55.9
103 46.8 36.8 55.2





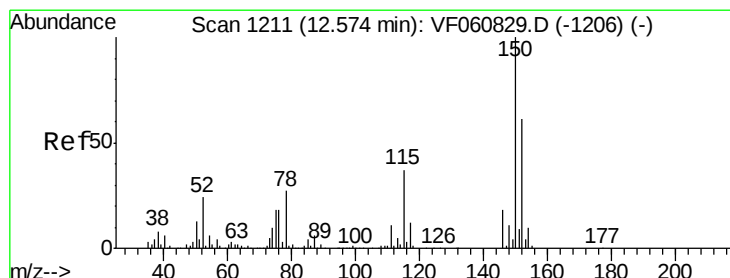
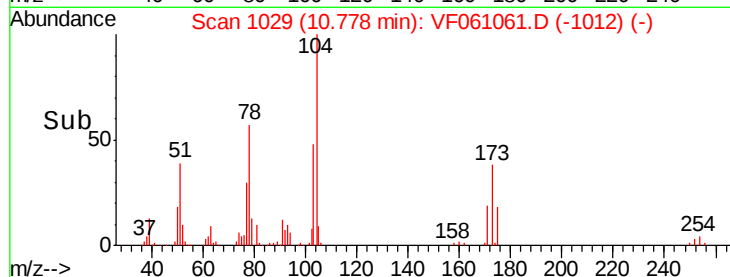
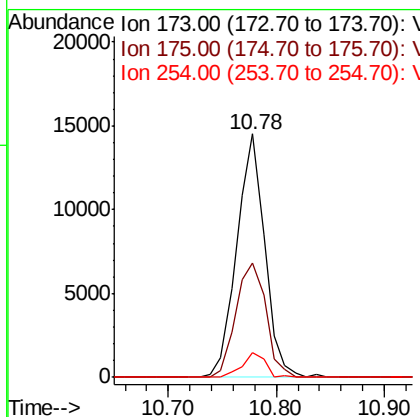
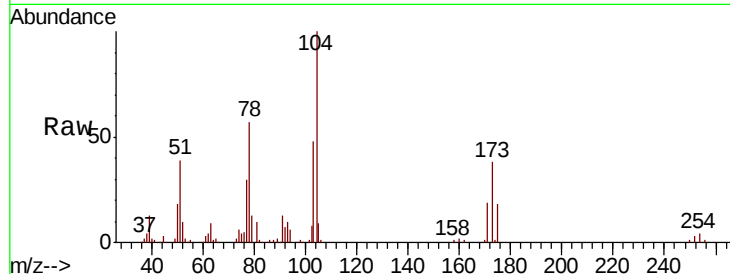
#71
Bromoform
Concen: 22.832 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	25.5	76.5
254	10.2	7.5	11.3

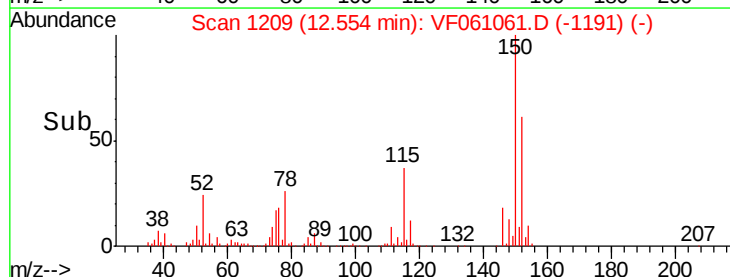
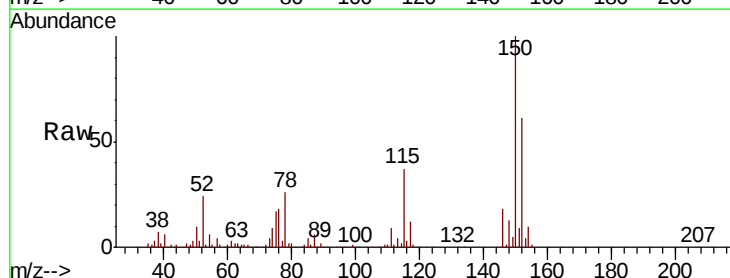
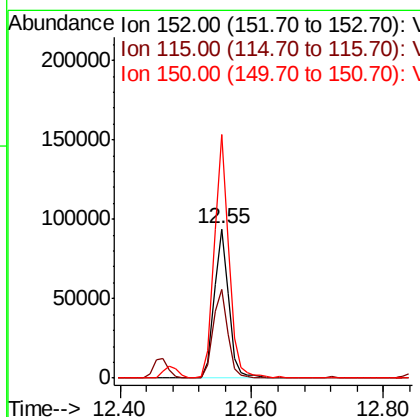
Manual Integrations
APPROVED

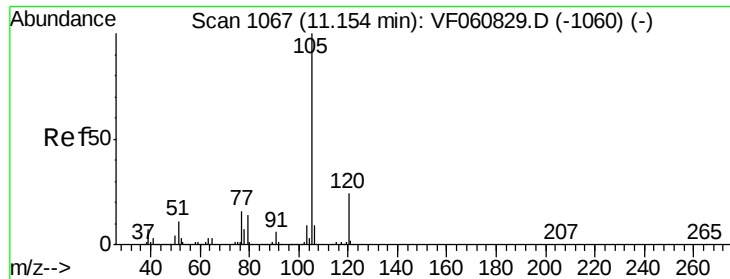
MMDadoda
12/19/2018 2:15:09 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.5	30.1	90.5
150	162.9	0.0	327.6





#73

Isopropylbenzene

Concen: 24.583 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 105 Resp: 276265

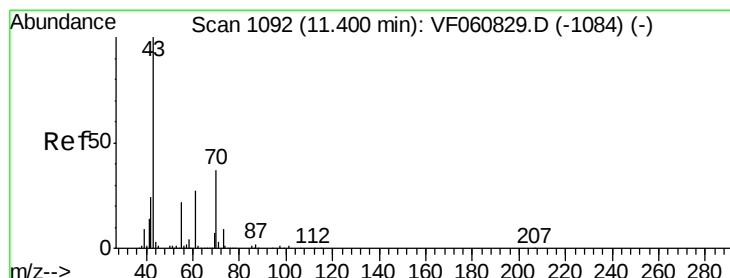
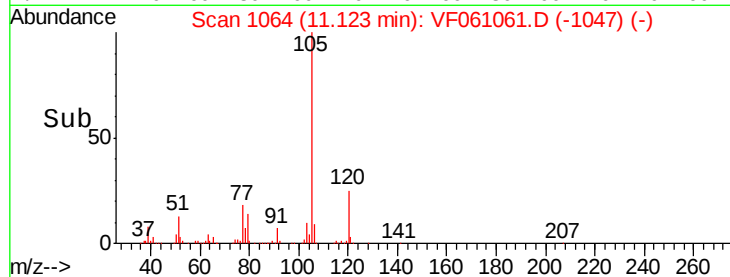
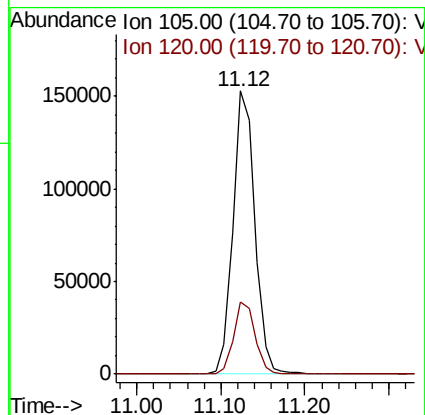
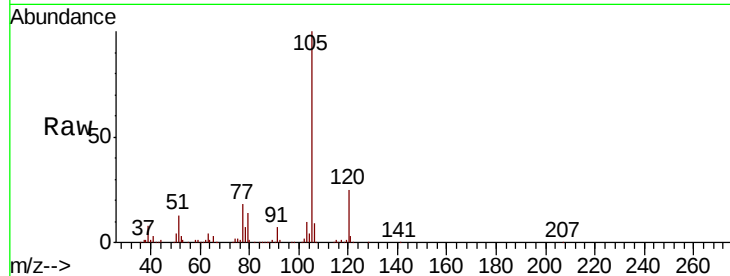
Ion Ratio Lower Upper

105 100

120 25.3 12.2 36.4

Manual Integrations
APPROVED

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12/19/2018 2:15:09 PM



#74

N-ethyl acetate

Concen: 25.440 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion: 43 Resp: 66019

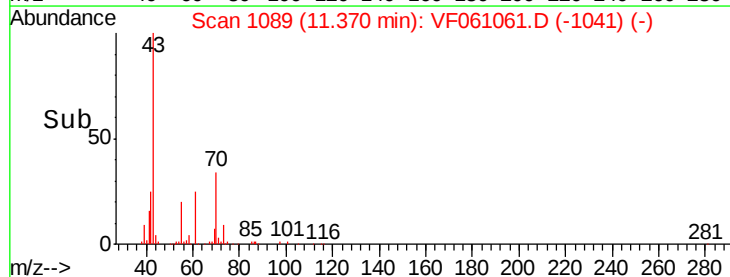
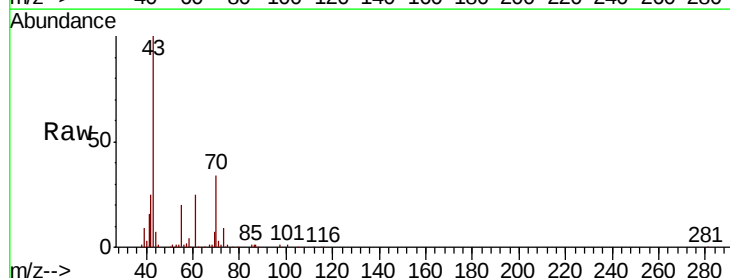
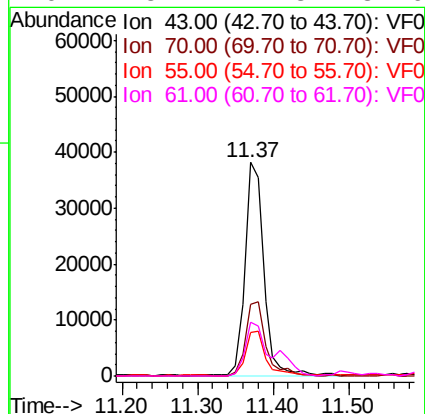
Ion Ratio Lower Upper

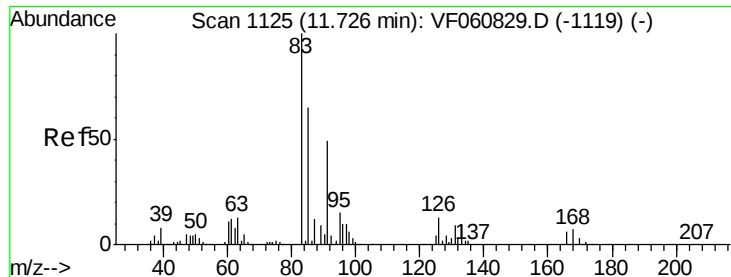
43 100

70 33.8 29.6 44.4

55 20.3 17.2 25.8

61 25.2 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 26.415 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

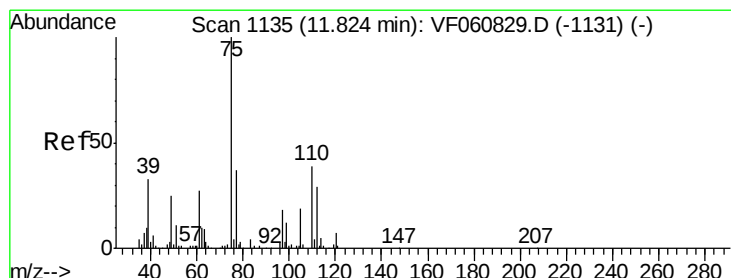
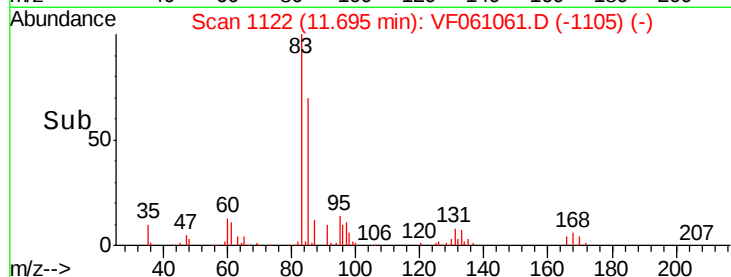
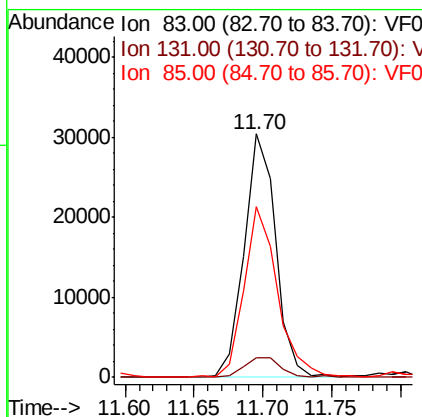
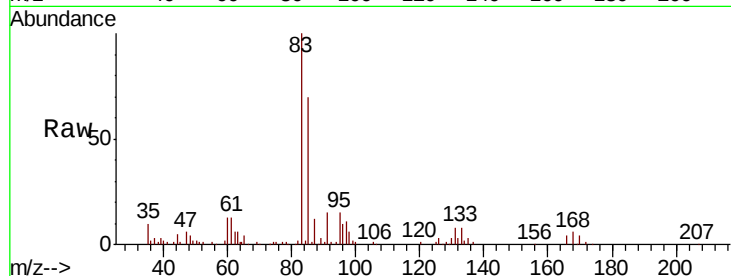
ClientSampleId :

VF1218SBS01

Tot Ion:	83	Resp:	48855
Ion Ratio	Lower	Upper	
83	100		
131	7.9	4.7	14.1
85	70.0	32.6	97.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 26.287 ug/l

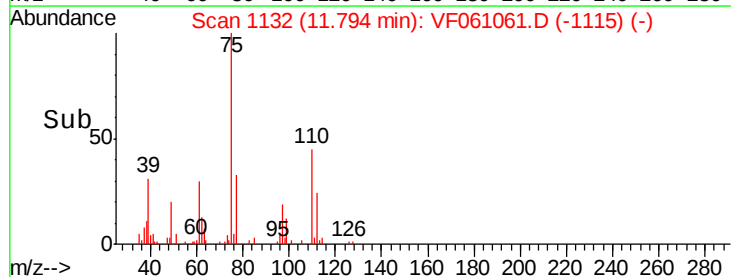
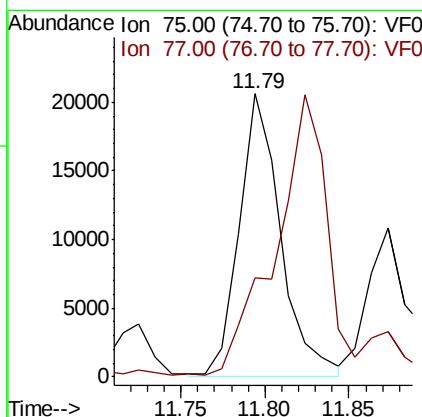
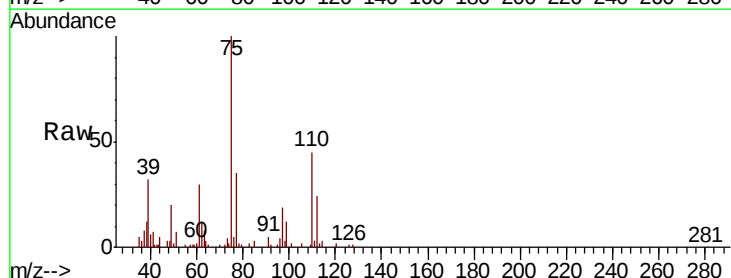
RT: 11.79 min Scan# 1132

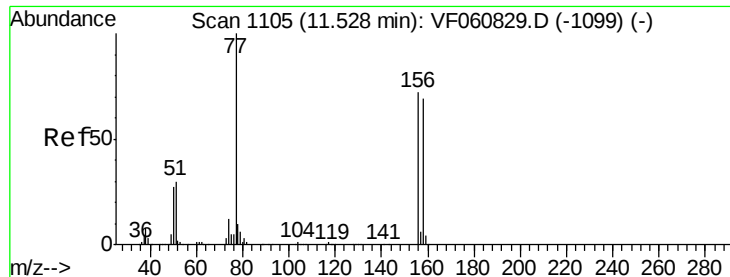
Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	75	Resp:	35339
Ion Ratio	Lower	Upper	
75	100		
77	34.9	18.4	55.4





#77

Bromobenzene

Concen: 23.852 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

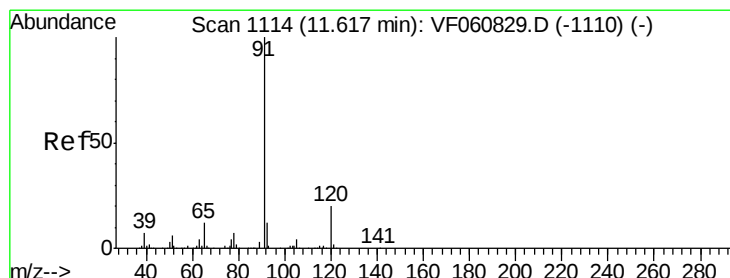
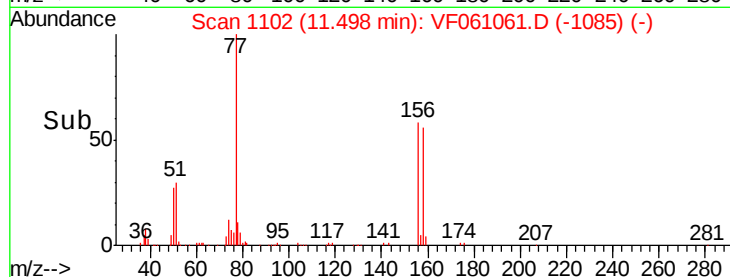
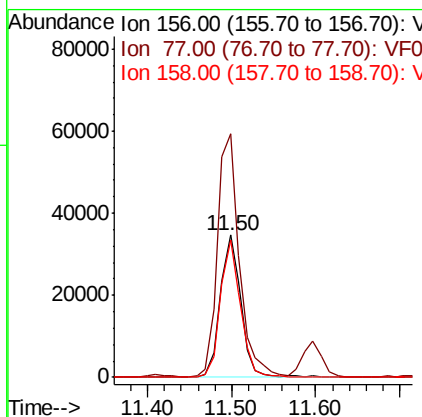
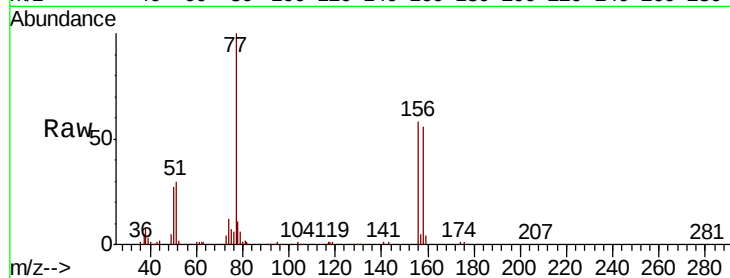
ClientSampleId :

VF1218SBS01

Tot Ion:	156	Resp:	58766
Ion Ratio	Lower	Upper	
156	100		
77	171.2	69.7	209.0
158	96.3	47.8	143.4

Manual Integrations
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#78

n-propylbenzene

Concen: 26.300 ug/l

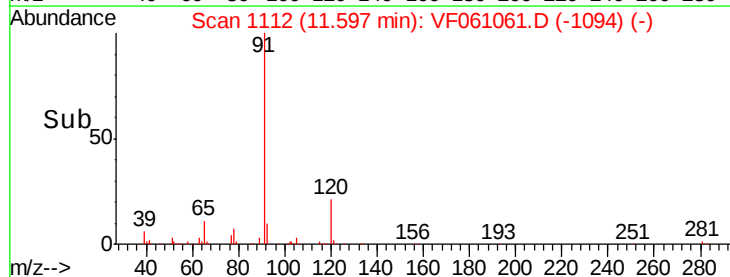
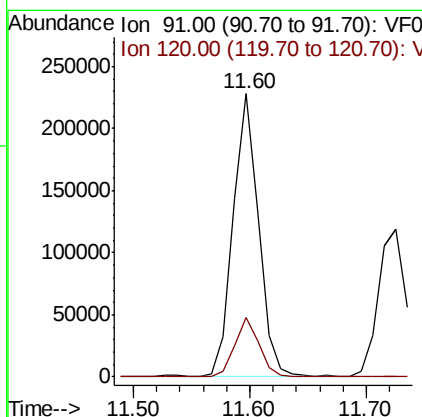
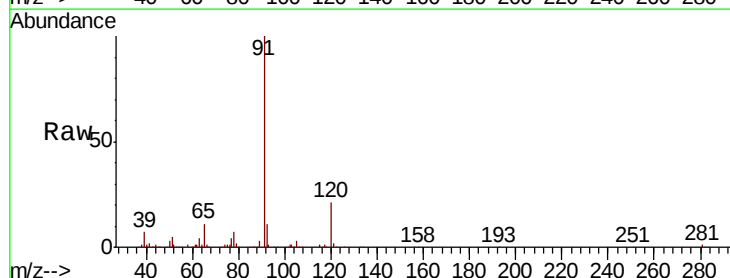
RT: 11.60 min Scan# 1112

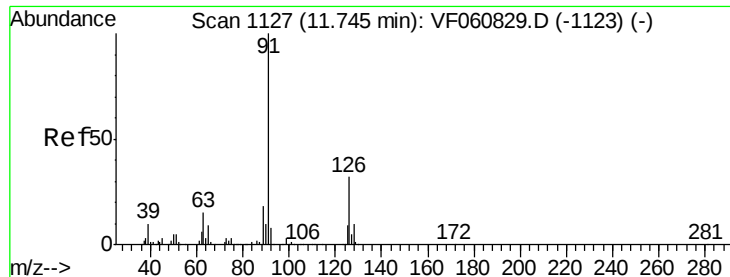
Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	91	Resp:	346123
Ion Ratio	Lower	Upper	
91	100		
120	20.8	10.3	30.8





#79

2-Chlorotoluene

Concen: 25.941 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

ClientSampleId :

VF1218SBS01

Tot Ion: 91 Resp: 195754

Ion Ratio Lower Upper

91 100

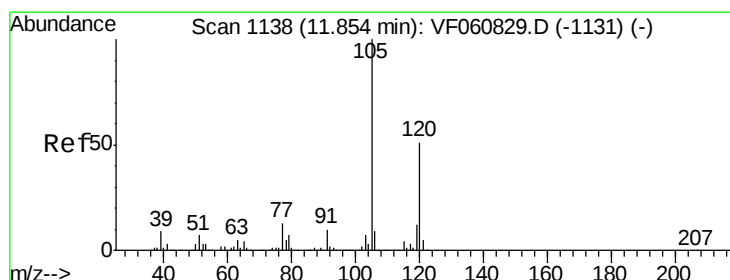
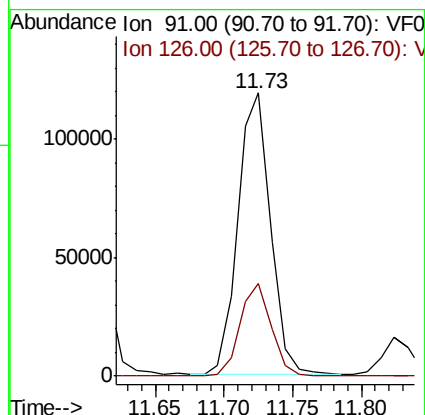
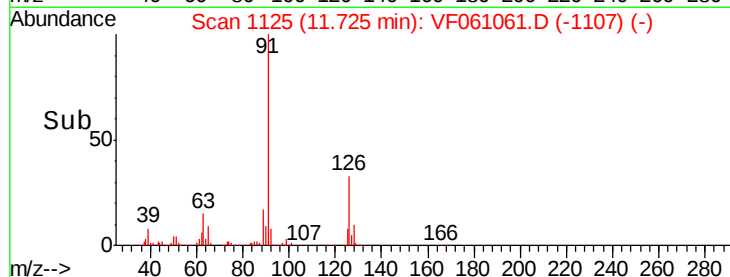
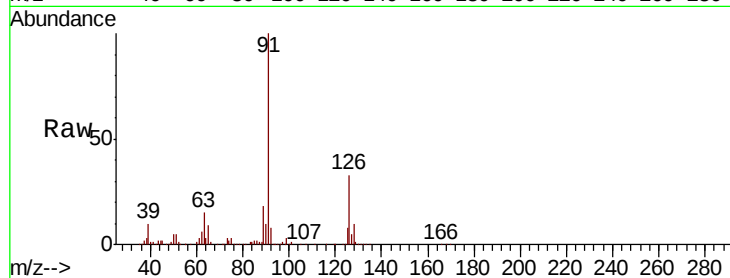
126 33.0 15.9 47.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 24.527 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF061061.D

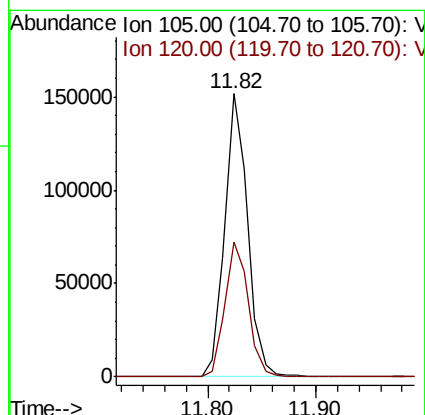
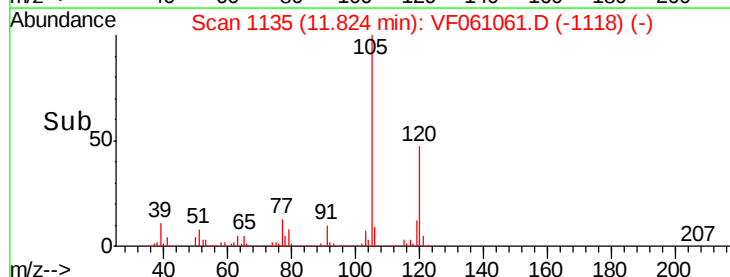
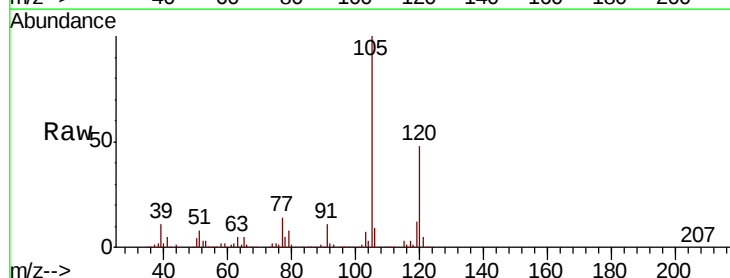
Acq: 18 Dec 2018 14:29

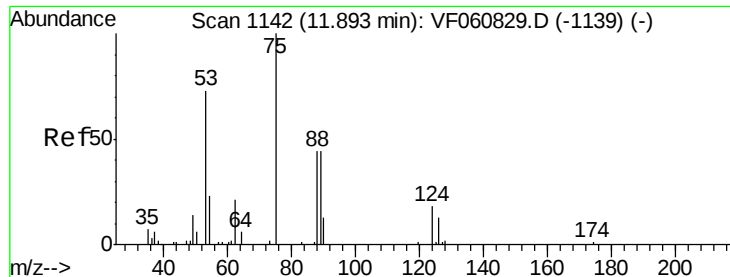
Tgt Ion: 105 Resp: 223764

Ion Ratio Lower Upper

105 100

120 47.5 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 26.780 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Instrument :

MSVOA_F

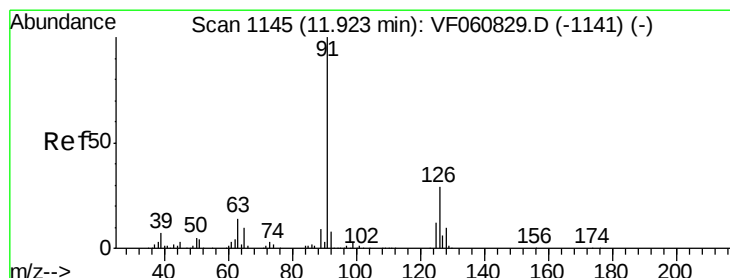
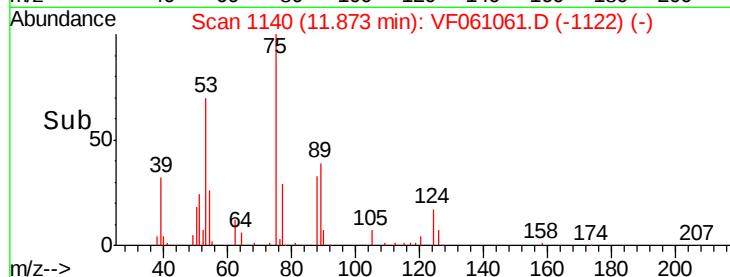
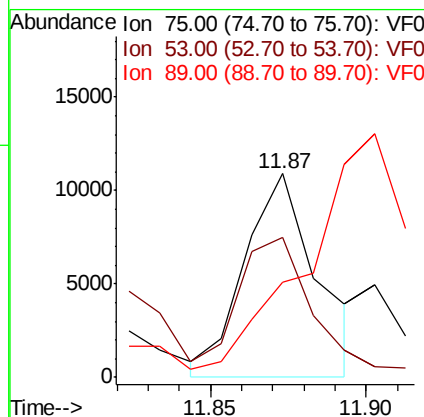
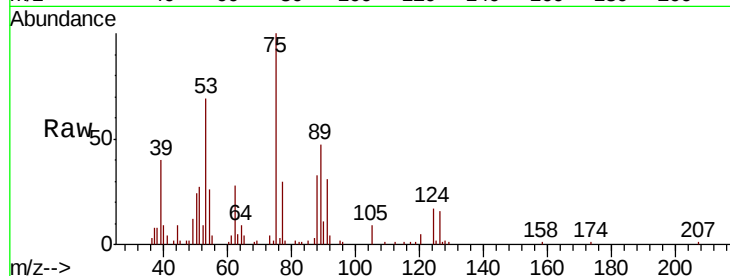
ClientSampleId :

VF1218SBS01

Tot Ion:	75	Resp:	17640
Ion	Ratio	Lower	Upper
75	100		
53	69.0	65.9	98.9
89	46.5	38.8	58.2

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#82

4-Chlorotoluene

Concen: 25.060 ug/l

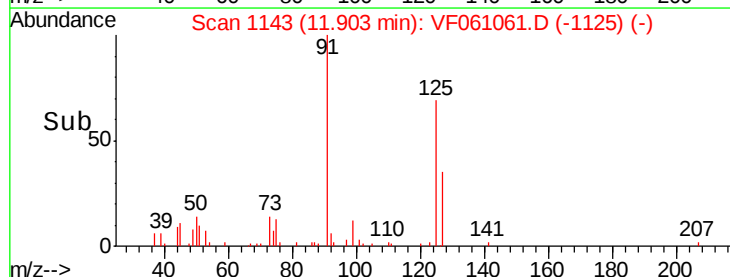
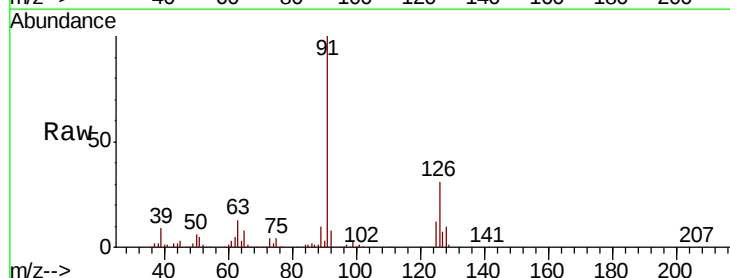
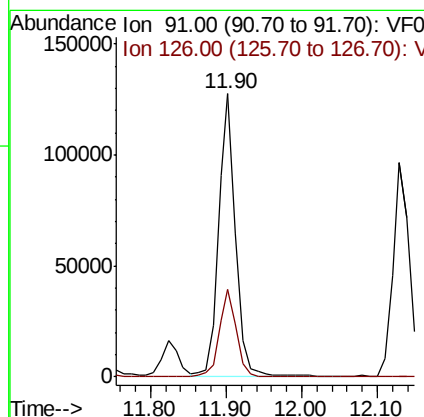
RT: 11.90 min Scan# 1143

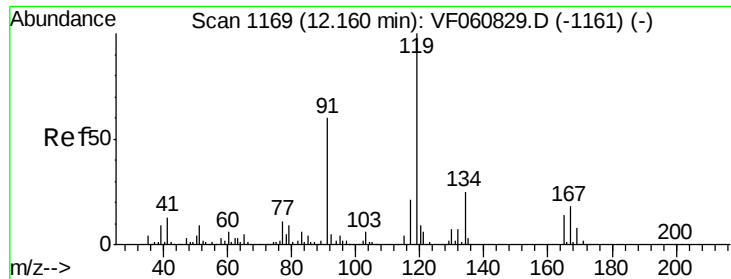
Delta R.T. -0.02 min

Lab File: VF061061.D

Acq: 18 Dec 2018 14:29

Tgt Ion:	91	Resp:	199010
Ion	Ratio	Lower	Upper
91	100		
126	30.8	14.8	44.4





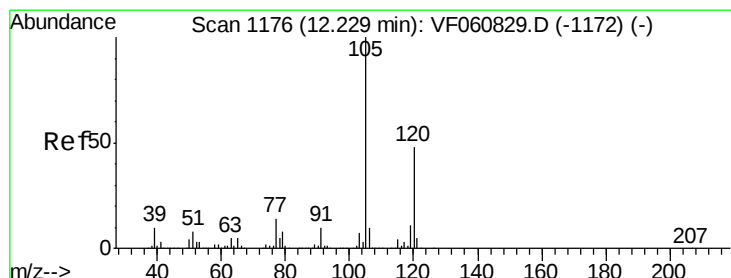
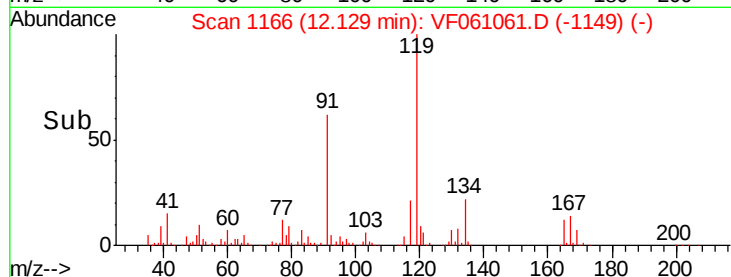
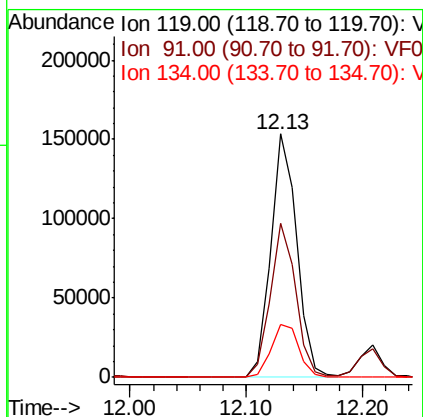
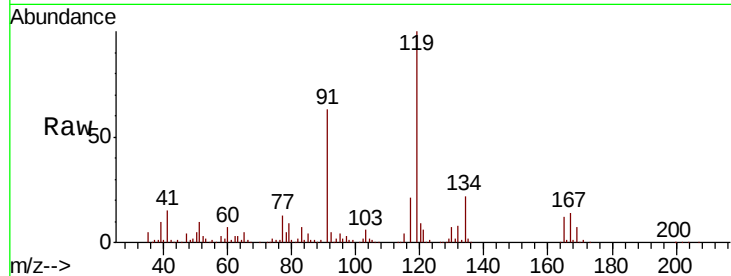
#83
tert-Butylbenzene
Concen: 25.524 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.03 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	237197		
91	63.1	30.1	90.3	
134	21.8	12.6	37.8	

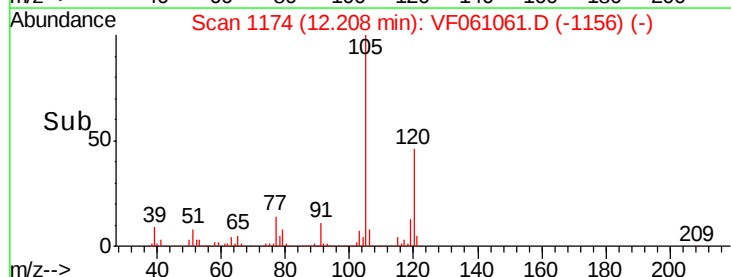
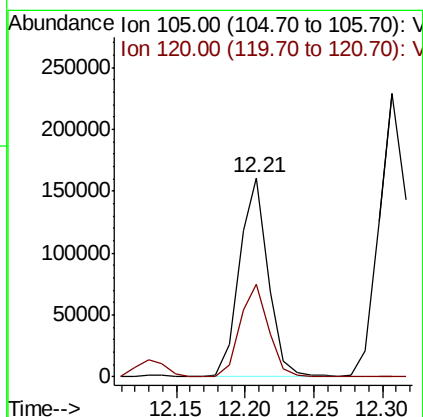
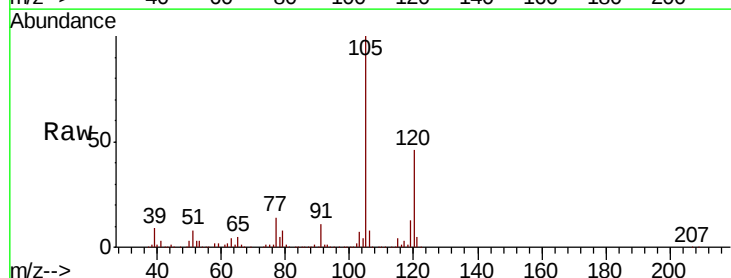
Manual Integrations
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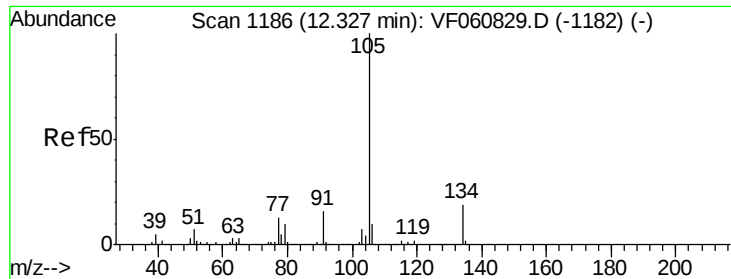
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 25.643 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	233485		
120	46.4	23.8	71.5	





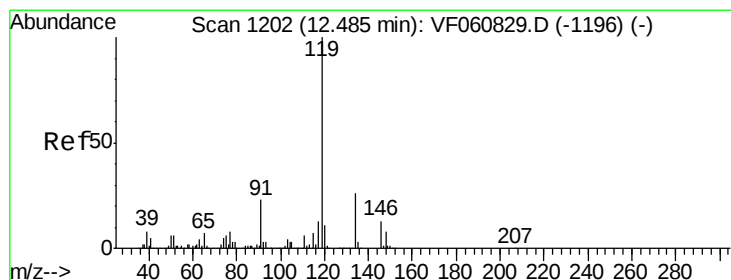
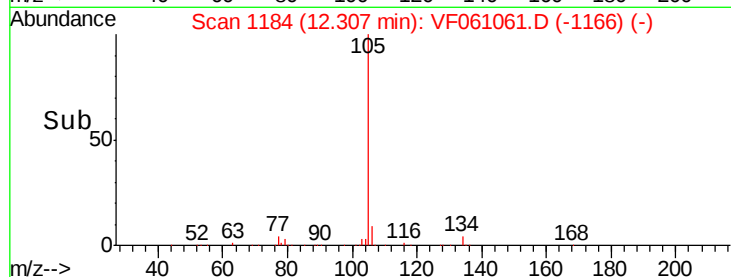
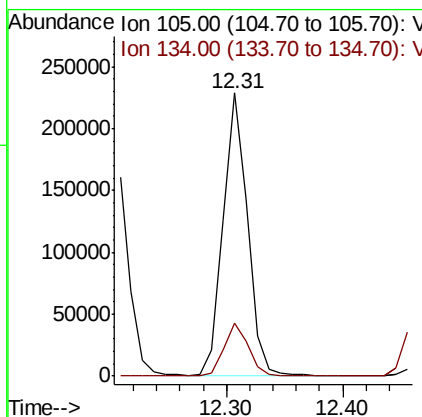
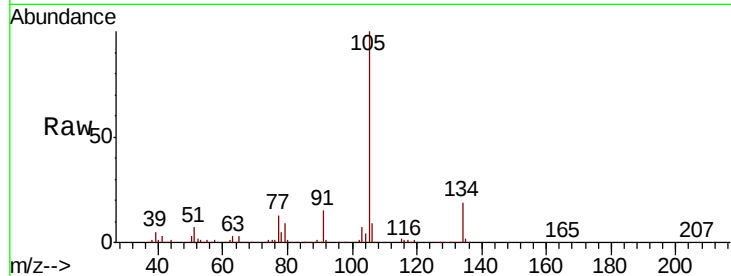
#85
 sec-Butylbenzene
 Concen: 26.161 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	332812		
134	18.5	9.5	28.5	

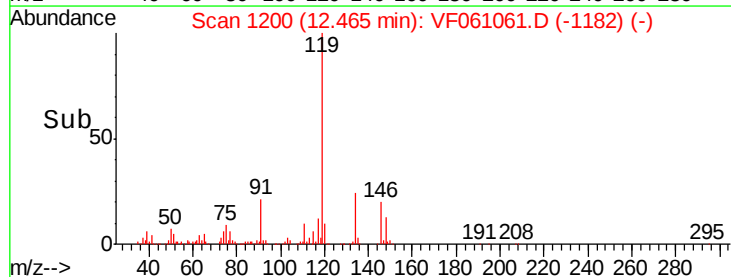
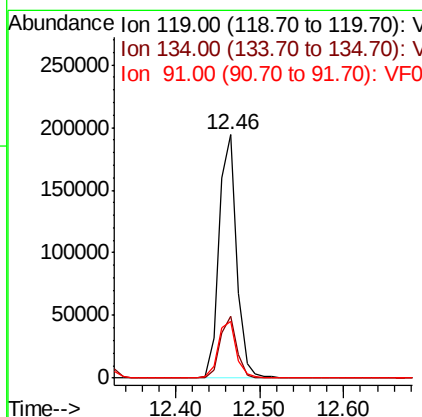
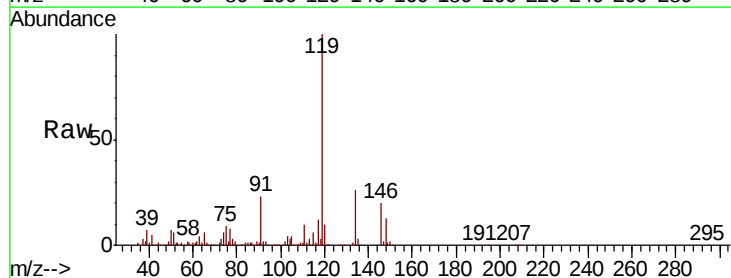
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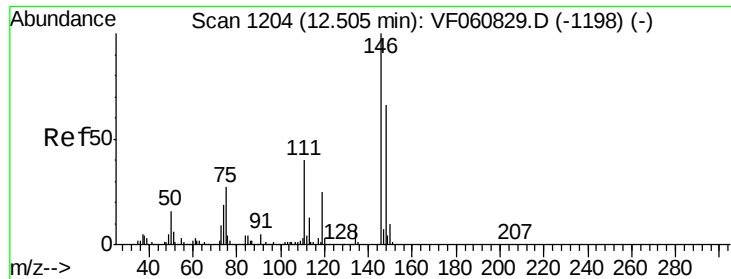
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#86
 p-Isopropyltoluene
 Concen: 26.375 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	281317		
134	25.6	12.9	38.6	
91	23.3	11.8	35.3	





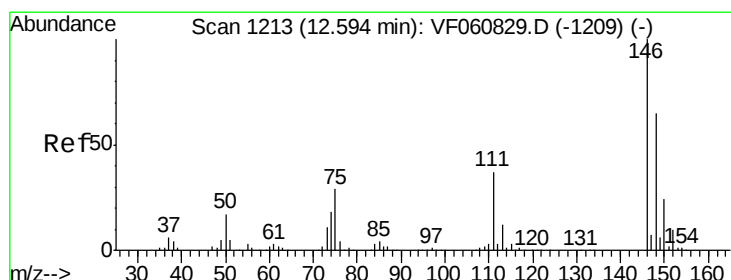
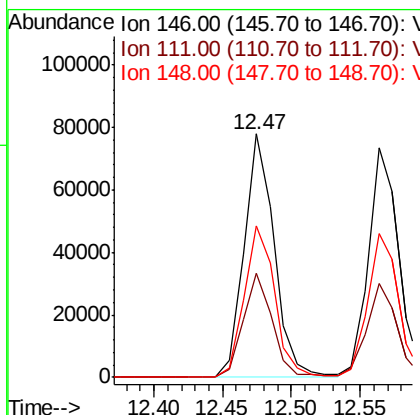
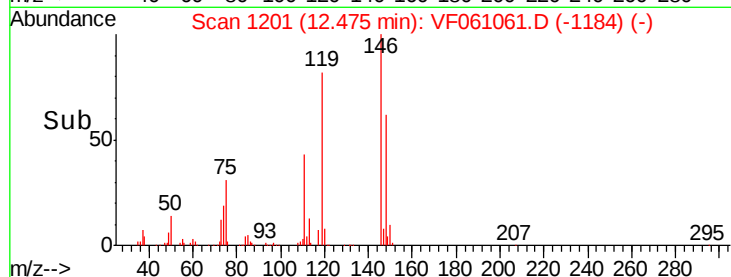
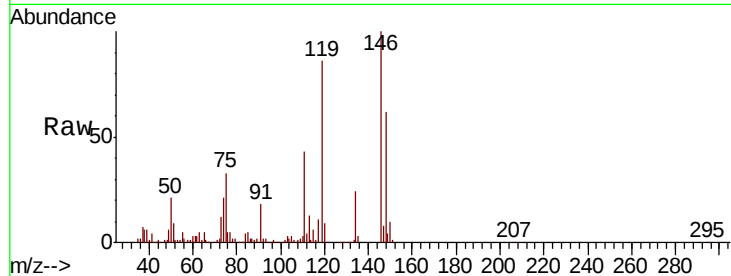
#87
 1,3-Dichlorobenzene
 Concen: 25.468 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.0	59.9
148	62.2	32.9	98.6

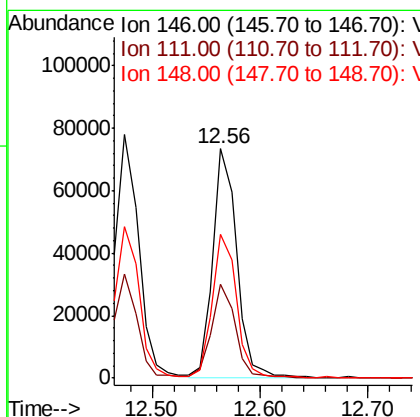
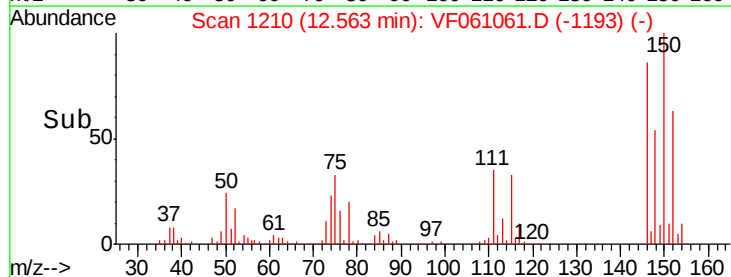
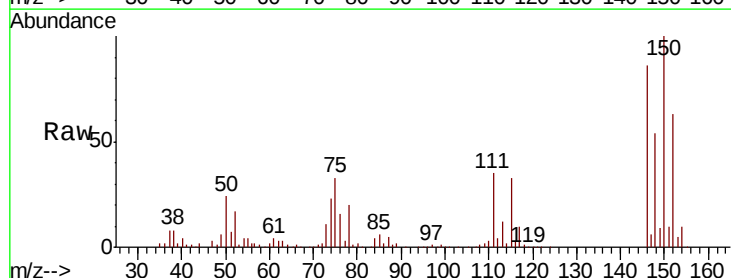
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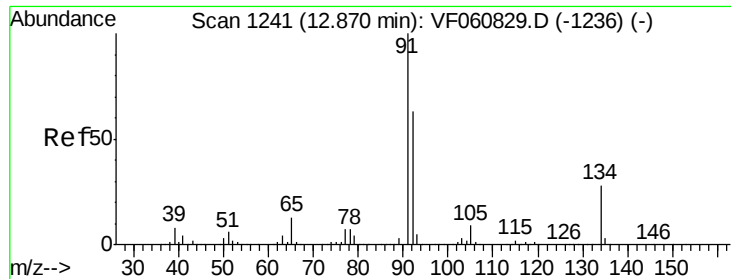
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 24.804 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	18.9	56.7
148	62.7	32.3	96.9





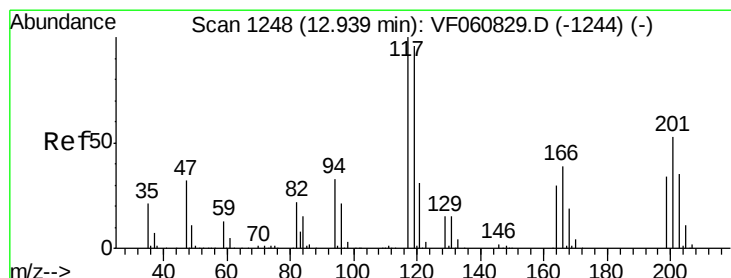
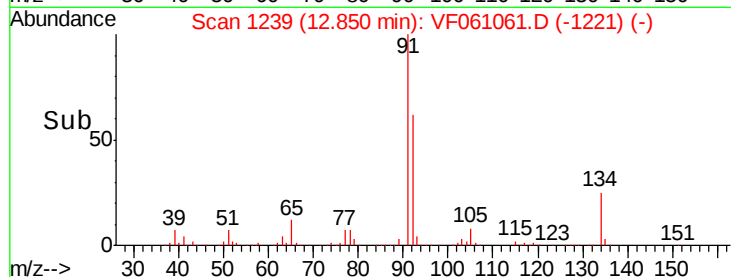
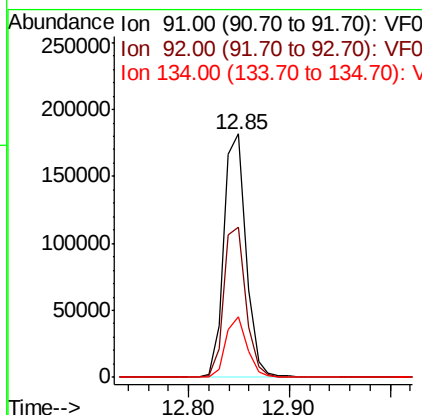
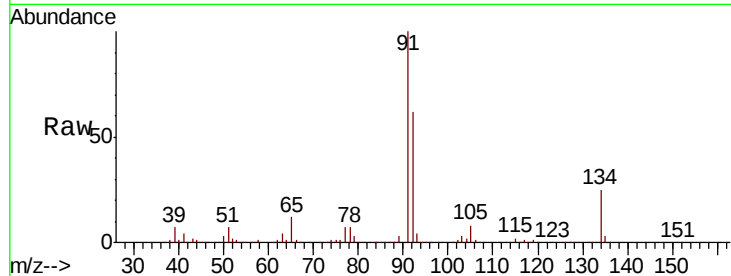
#89
n-Butylbenzene
Concen: 25.987 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	280267		
92	61.5		31.6	94.7
134	24.7		13.8	41.4

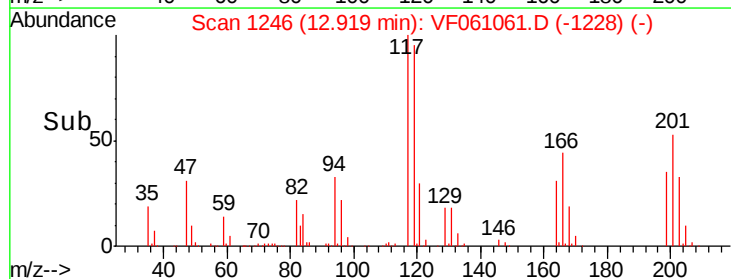
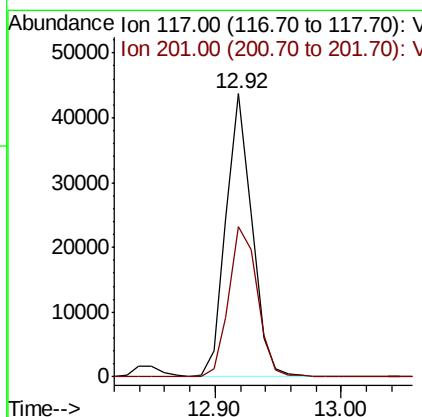
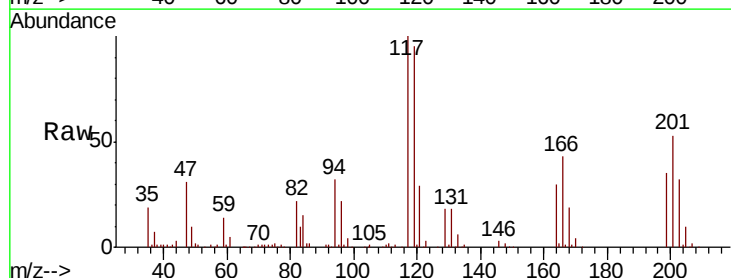
Manual Integrations
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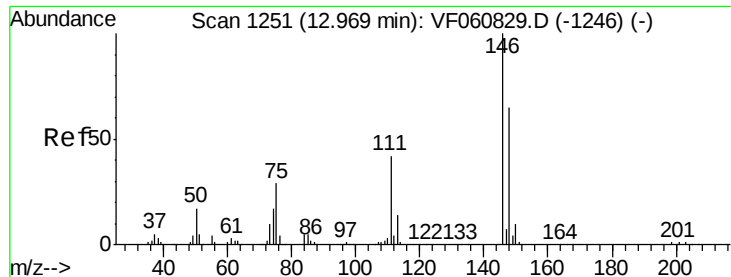
MMDadoda
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#90
Hexachloroethane
Concen: 24.377 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	62609		
201	53.0		26.7	80.1





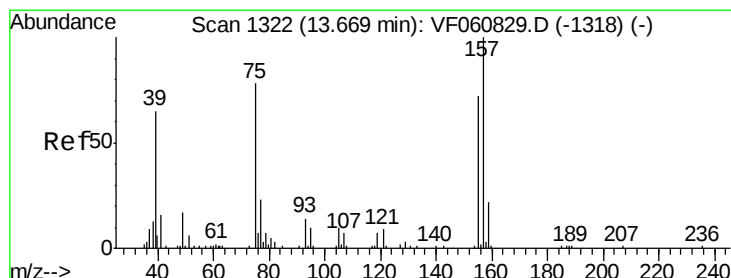
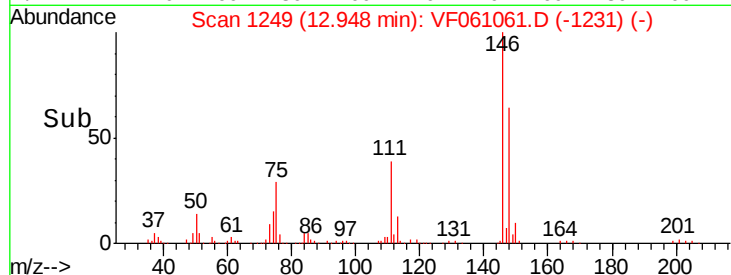
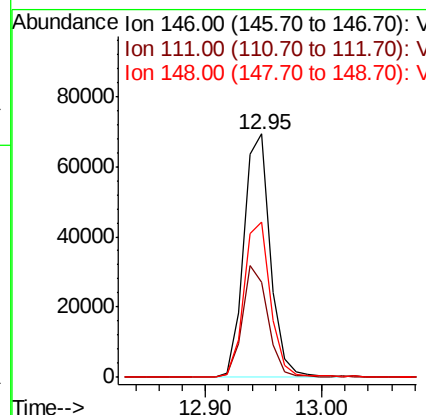
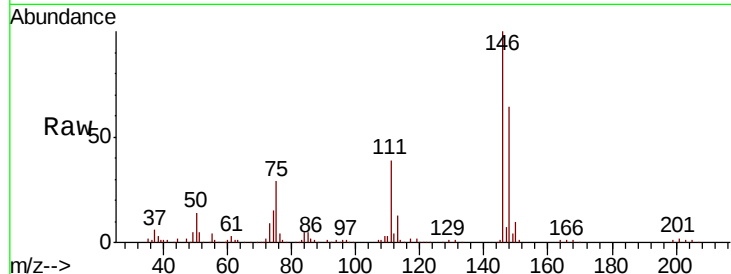
#91
 1,2-Dichlorobenzene
 Concen: 24.791 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	110028		
111	39.2	21.2	63.6	
148	63.7	32.5	97.5	

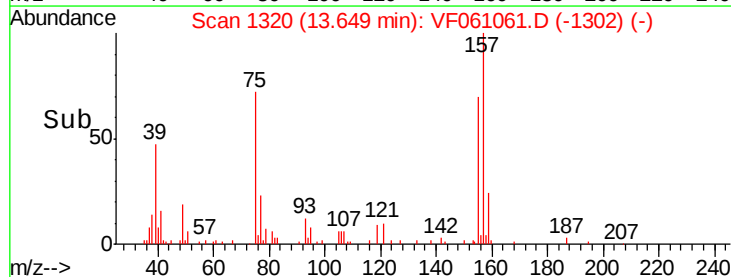
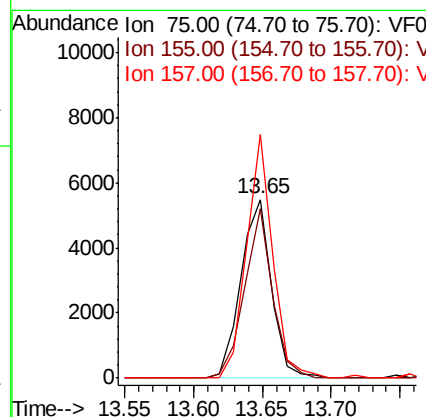
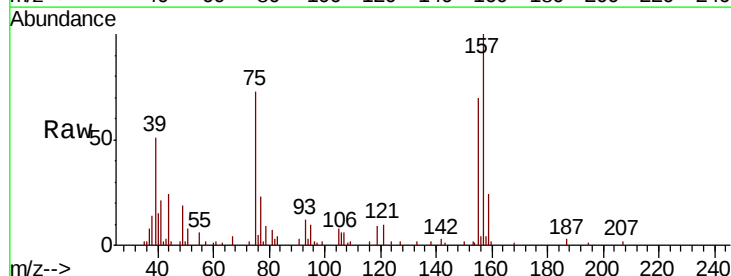
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.781 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF061061.D
 Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8504		
155	95.1	45.6	136.9	
157	136.2	63.8	191.5	





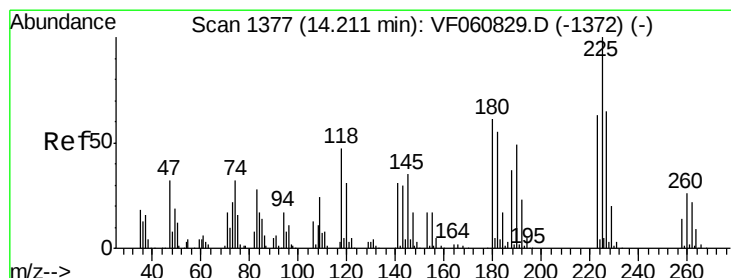
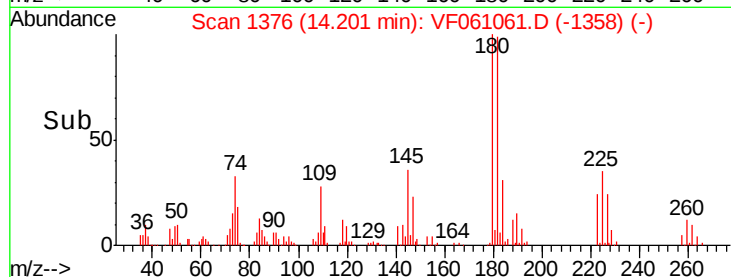
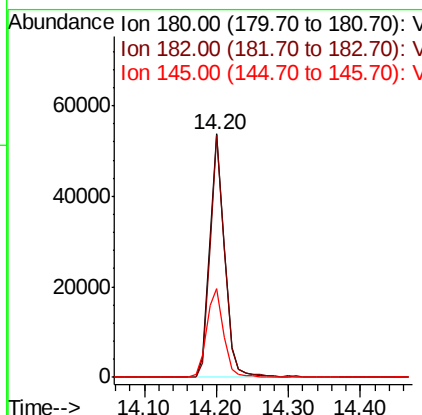
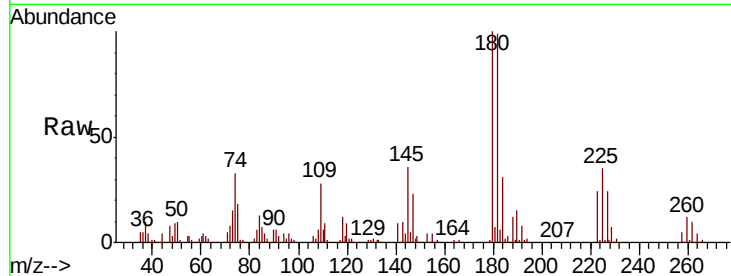
#93
1,2,4-Trichlorobenzene
Concen: 24.812 ug/l
RT: 14.20 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	76944		
182	99.4	48.5	145.5	
145	36.2	18.1	54.3	

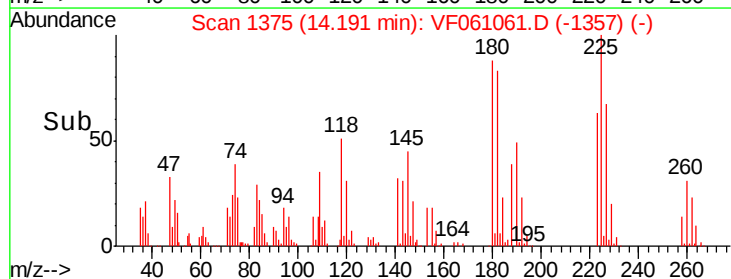
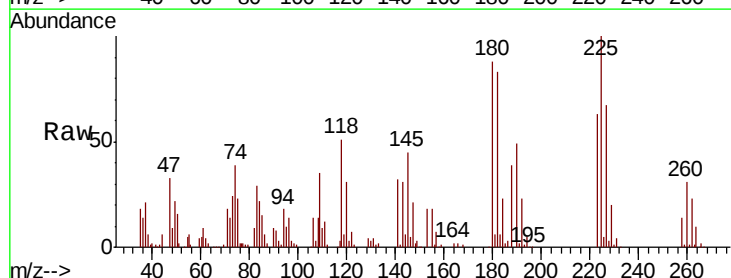
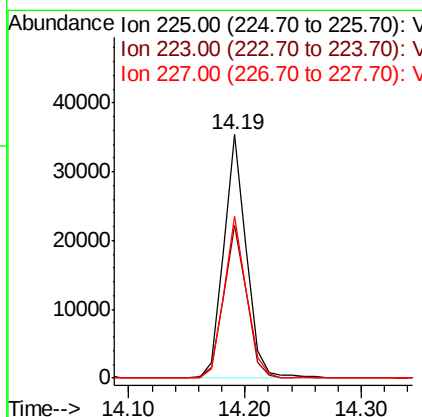
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#94
Hexachlorobutadiene
Concen: 23.013 ug/l
RT: 14.19 min Scan# 1375
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	47573		
223	62.7	31.4	94.3	
227	66.6	32.5	97.5	





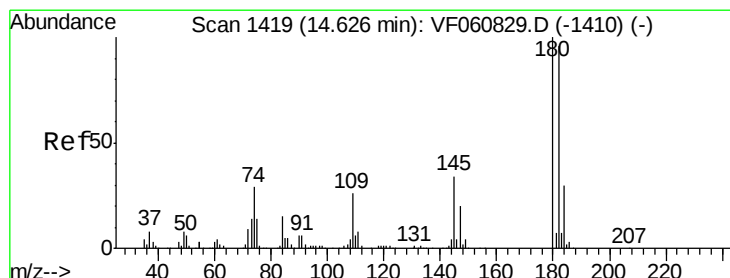
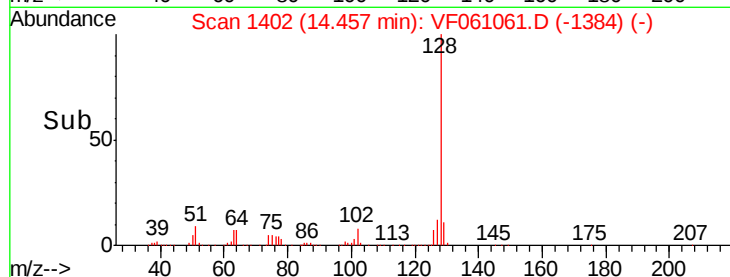
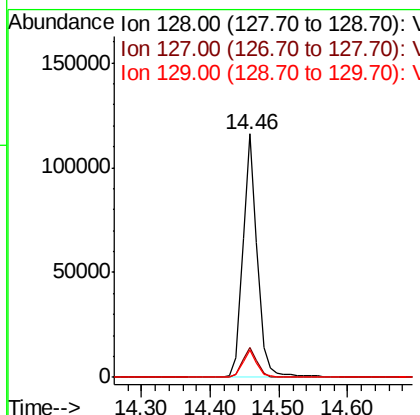
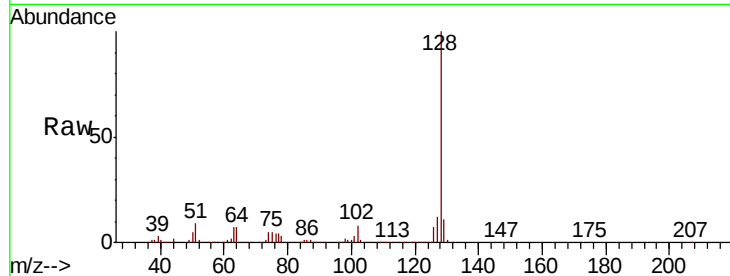
#95
Naphthalene
Concen: 26.239 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Instrument :
MSVOA_F
ClientSampleId :
VF1218SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.9	14.9
129	11.4	9.1	13.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 25.540 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF061061.D
Acq: 18 Dec 2018 14:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	47.9	143.8
145	31.5	17.2	51.5

