

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031919\
 Data File : VF062012.D
 Acq On : 19 Mar 2019 12:21
 Operator : VA/AP
 Sample : VF0319SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:54:01 PM

Quant Time: Mar 22 05:17:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	275340	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	406207	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	345877	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.53	152	185772	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	105796	53.38	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	106.76%	
35) Dibromofluoromethane	4.08	113	142276	52.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.32%	
50) Toluene-d8	7.52	98	390412	48.96	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.39	95	151982	47.98	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	95.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	71498	24.359	ug/l	98
3) Chloromethane	1.08	50	67706	22.698	ug/l	99
4) Vinyl Chloride	1.14	62	68904	23.885	ug/l	91
5) Bromomethane	1.31	94	44686	22.050	ug/l	97
6) Chloroethane	1.38	64	29736	19.967	ug/l	91
7) Trichlorofluoromethane	1.48	101	82562	21.602	ug/l	86
8) Diethyl Ether	1.62	74	17371	20.445	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	1.83	101	64394	23.914	ug/l	93
10) Methyl Iodide	1.90	142	107615m	22.828	ug/l	
11) Tert butyl alcohol	2.55	59	12249	100.997	ug/l #	82
12) 1,1-Dichloroethene	1.78	96	52827	22.732	ug/l	92
13) Acrolein	1.99	56	13060	99.751	ug/l	87
14) Allyl chloride	2.08	41	63062	21.259	ug/l	92
15) Acrylonitrile	2.93	53	37765	102.397	ug/l	99
16) Acetone	2.23	43	49937	112.201	ug/l	91
17) Carbon Disulfide	1.79	76	151183m	22.506	ug/l	
18) Methyl Acetate	2.33	43	17839	17.687	ug/l	96
19) Methyl tert-butyl Ether	2.41	73	81574	19.372	ug/l	100
20) Methylene Chloride	2.17	84	52746m	22.714	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	42375	17.473	ug/l	85
22) Diisopropyl ether	2.78	45	142346	19.950	ug/l	98
23) Vinyl Acetate	3.17	43	313736	111.539	ug/l	99
24) 1,1-Dichloroethane	2.86	63	85937	20.714	ug/l	98
25) 2-Butanone	4.31	43	94271	106.951	ug/l #	89
26) 2,2-Dichloropropane	3.58	77	40742	20.819	ug/l	97
27) cis-1,2-Dichloroethene	3.45	96	62645	20.495	ug/l	96
28) Bromochloromethane	3.70	49	34389	19.976	ug/l	82
29) Tetrahydrofuran	4.04	42	36984	96.480	ug/l	98
30) Chloroform	3.83	83	98345	20.921	ug/l	99
31) Cyclohexane	3.67	56	88106m	21.497	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	63253	20.261	ug/l	94
36) 1,1-Dichloropropene	4.25	75	81326	22.170	ug/l	98
37) Ethyl Acetate	4.08	43	33245	20.184	ug/l	89
38) Carbon Tetrachloride	3.96	117	57752	21.542	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	92221	21.415	ug/l	99
40) Benzene	4.60	78	209553	21.559	ug/l	100
41) Methacrylonitrile	4.72	41	18209	20.692	ug/l #	89
42) 1,2-Dichloroethane	4.92	62	51280	21.193	ug/l	98
43) Isopropyl Acetate	6.93	43	40562	20.814	ug/l #	84
44) Trichloroethene	5.47	130	67355	22.621	ug/l	100
45) 1,2-Dichloropropane	6.20	63	48986	21.295	ug/l	99
46) Dibromomethane	6.05	93	30269	22.120	ug/l	90
47) Bromodichloromethane	6.36	83	69657	21.592	ug/l	99
48) Methyl methacrylate	6.69	41	25424	20.186	ug/l #	86
49) 1,4-Dioxane	6.68	88	5198	463.983	ug/l #	81
51) 4-Methyl-2-Pentanone	8.23	43	148987	107.662	ug/l	98
52) Toluene	7.59	92	111833	18.831	ug/l	91
53) t-1,3-Dichloropropene	8.25	75	57188	20.997	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	78085	21.972	ug/l	96
55) 1,1,2-Trichloroethane	8.46	97	33312	20.097	ug/l	96
56) Ethyl methacrylate	8.60	69	40851	21.680	ug/l	95
57) 1,3-Dichloropropane	8.82	76	58439	21.136	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.26	63	30888	90.505	ug/l	98
59) 2-Hexanone	9.46	43	108667	108.505	ug/l	98
60) Dibromochloromethane	8.68	129	52511	22.820	ug/l	95
61) 1,2-Dibromoethane	8.96	107	38112	21.436	ug/l	99
64) Tetrachloroethene	8.12	164	55222	21.964	ug/l	97
65) Chlorobenzene	9.77	112	135175	20.991	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.90	131	58628	23.488	ug/l	95
67) Ethyl Benzene	9.87	91	246214	22.330	ug/l	98
68) m/p-Xylenes	10.10	106	183823	44.327	ug/l	88
69) o-Xylene	10.69	106	93136	20.989	ug/l	91
70) Styrene	10.77	104	134392	21.861	ug/l	99
71) Bromoform	10.75	173	27035	21.413	ug/l #	93
73) Isopropylbenzene	11.10	105	291397	22.705	ug/l	96
74) N-amyl acetate	11.35	43	61481	20.906	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.67	83	44997	21.241	ug/l	95
76) 1,2,3-Trichloropropane	11.77	75	30151	20.354	ug/l	88
77) Bromobenzene	11.48	156	66127	22.249	ug/l	98
78) n-propylbenzene	11.57	91	318330	21.571	ug/l	100
79) 2-Chlorotoluene	11.70	91	177363	21.292	ug/l	100
80) 1,3,5-Trimethylbenzene	11.80	105	231911	22.369	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	14870m	22.691	ug/l	
82) 4-Chlorotoluene	11.88	91	182199	21.629	ug/l	99
83) tert-Butylbenzene	12.11	119	251690	23.214	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	230996	22.245	ug/l	97
85) sec-Butylbenzene	12.28	105	321423	21.942	ug/l	98
86) p-Isopropyltoluene	12.44	119	275255	22.518	ug/l	96
87) 1,3-Dichlorobenzene	12.45	146	129360	22.145	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	124918	22.218	ug/l	96
89) n-Butylbenzene	12.83	91	264875	23.061	ug/l	96
90) Hexachloroethane	12.90	117	64629	23.168	ug/l	96
91) 1,2-Dichlorobenzene	12.92	146	122779	22.693	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.62	75	7043	20.718	ug/l	93

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ClientSampleId :
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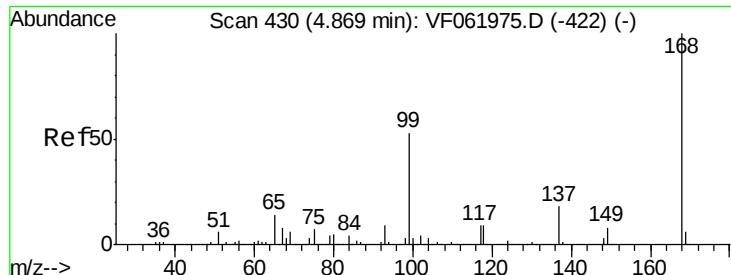
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	85871	22.792	ug/l	93
94) Hexachlorobutadiene	14.18	225	55354	22.131	ug/l	95
95) Naphthalene	14.44	128	138273	20.406	ug/l	97
96) 1,2,3-Trichlorobenzene	14.58	180	78023	22.510	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion:168 Resp: 275340

Ion Ratio Lower Upper

168 100

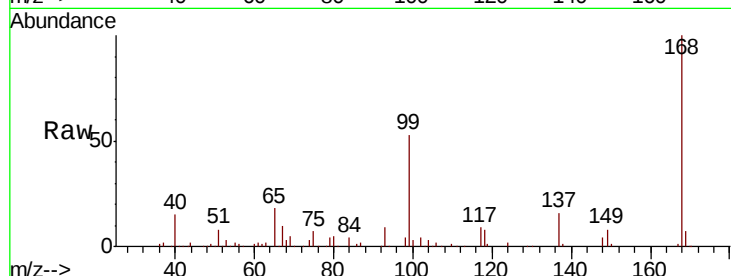
99 52.8 42.4 63.6

Manual Integrations

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3/22/2019 4:54:01 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

100000

80000

60000

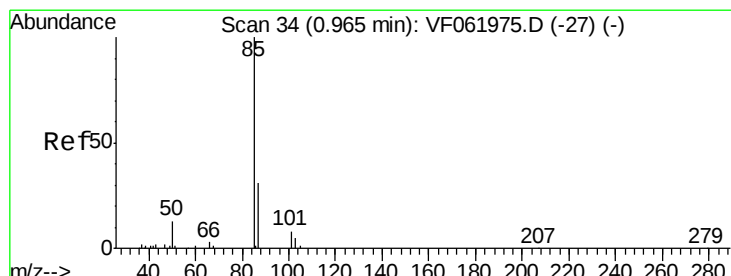
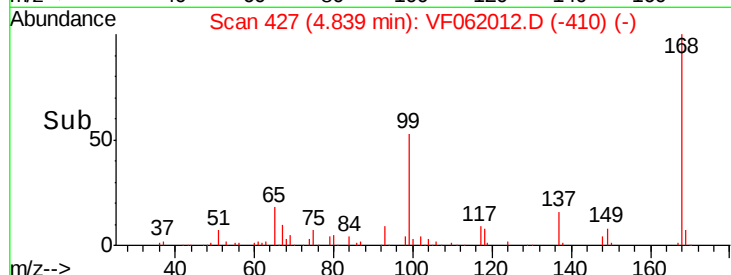
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 24.359 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF062012.D

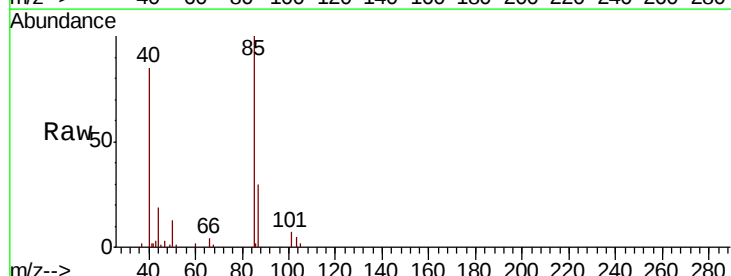
Acq: 19 Mar 2019 12:21

Tgt Ion: 85 Resp: 71498

Ion Ratio Lower Upper

85 100

87 29.6 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

20000

15000

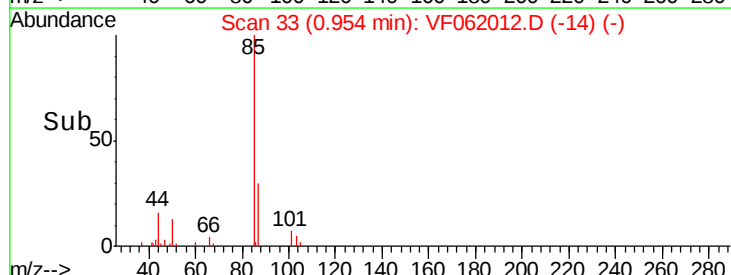
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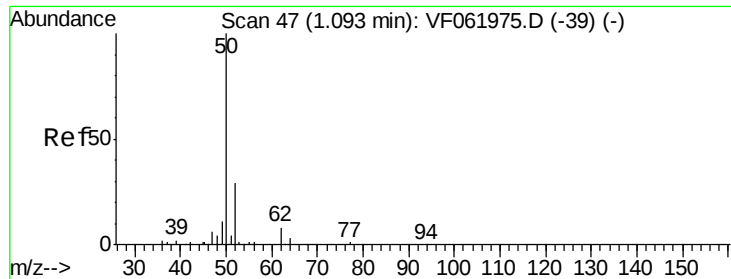
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 22.698 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 50 Resp: 67706

Ion Ratio Lower Upper

50 100

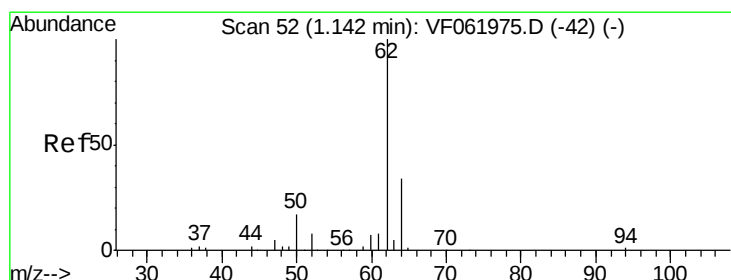
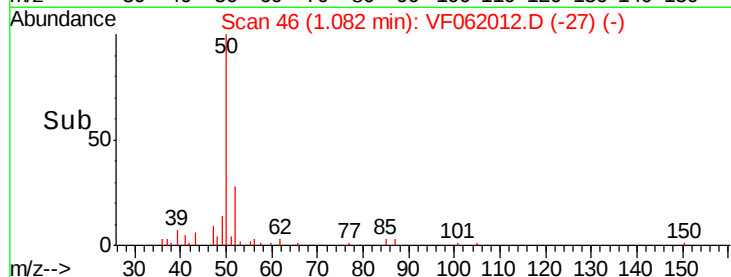
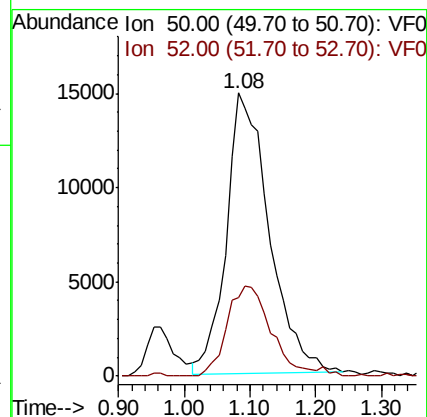
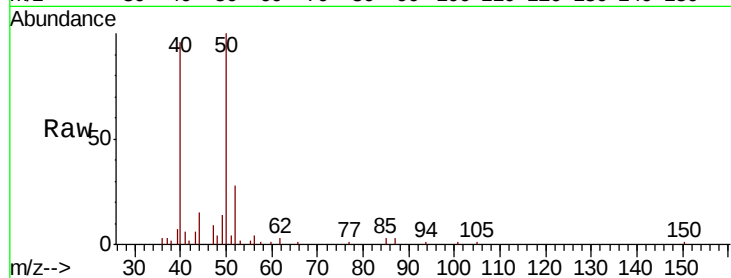
52 27.8 22.6 34.0

Manual Integrations

APPROVED

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#4

Vinyl Chloride

Concen: 23.885 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF062012.D

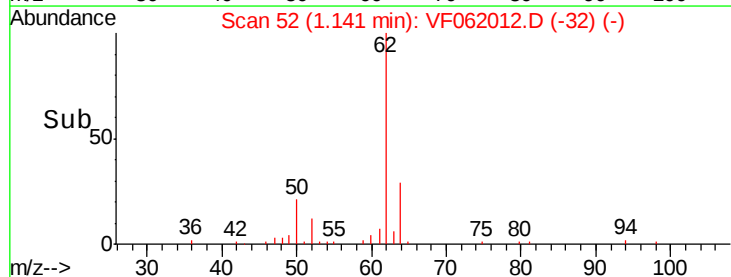
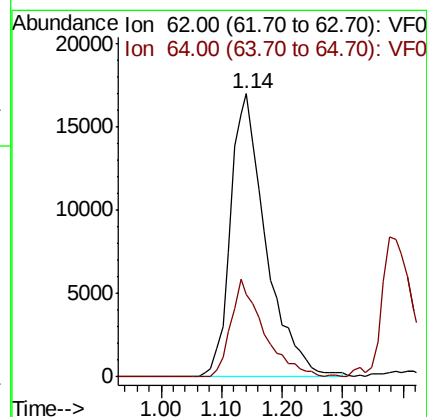
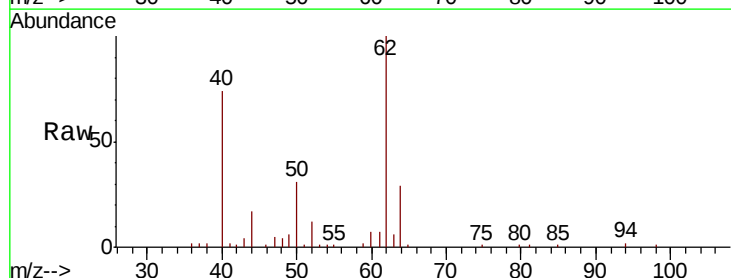
Acq: 19 Mar 2019 12:21

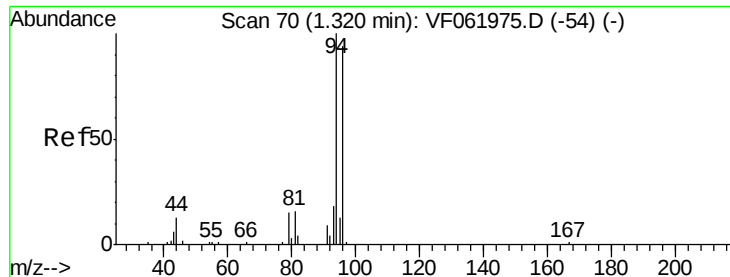
Tgt Ion: 62 Resp: 68904

Ion Ratio Lower Upper

62 100

64 29.1 27.4 41.2





#5

Bromomethane

Concen: 22.050 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 94 Resp: 44686

Ion Ratio Lower Upper

94 100

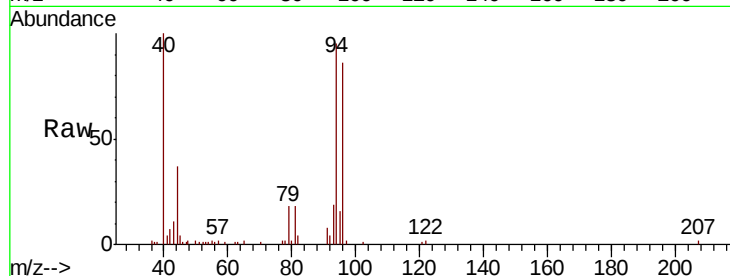
96 91.1 75.0 112.6

Manual Integrations

APPROVED

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

10000

8000

6000

4000

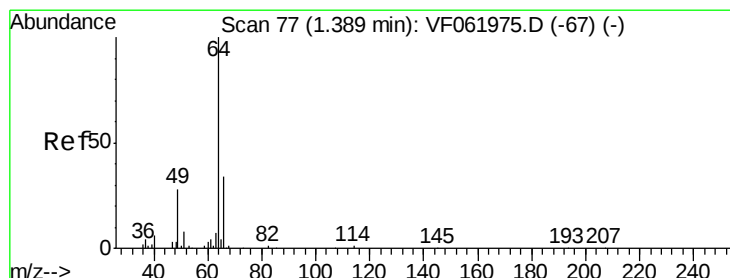
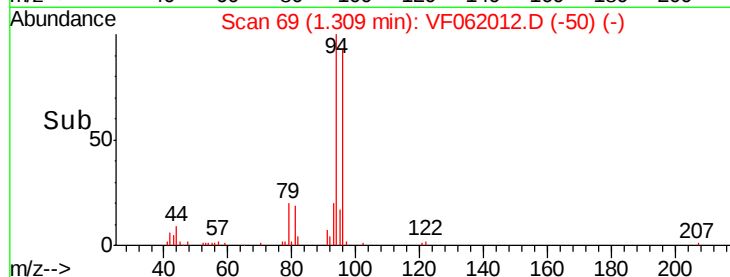
2000

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Time-->

1.10 1.20 1.30 1.40 1.50

1.31



#6

Chloroethane

Concen: 19.967 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF062012.D

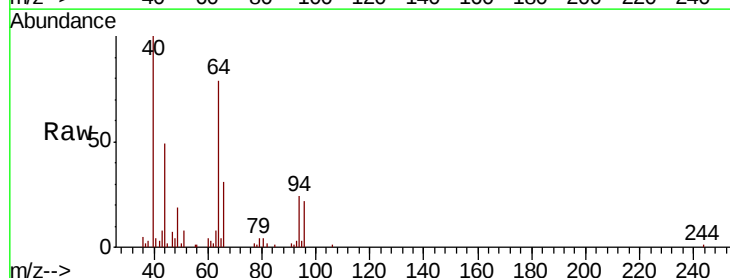
Acq: 19 Mar 2019 12:21

Tgt Ion: 64 Resp: 29736

Ion Ratio Lower Upper

64 100

66 39.4 27.6 41.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

10000

8000

6000

4000

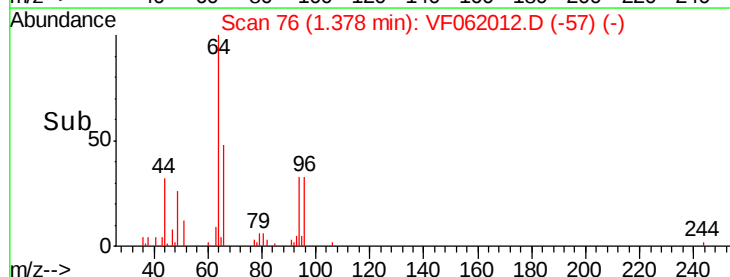
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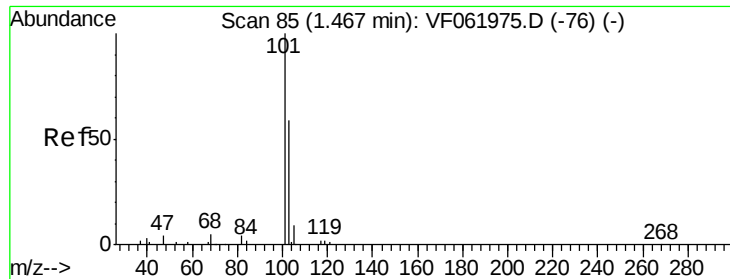
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Time-->

1.30 1.40 1.50

1.38





#7

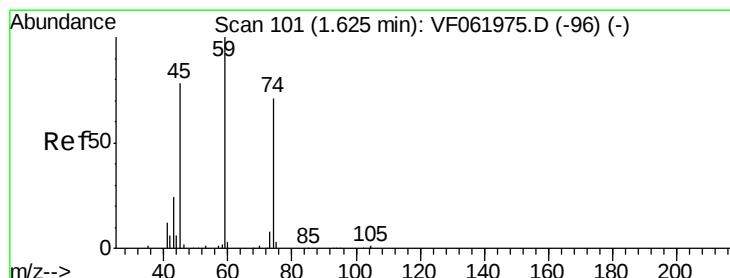
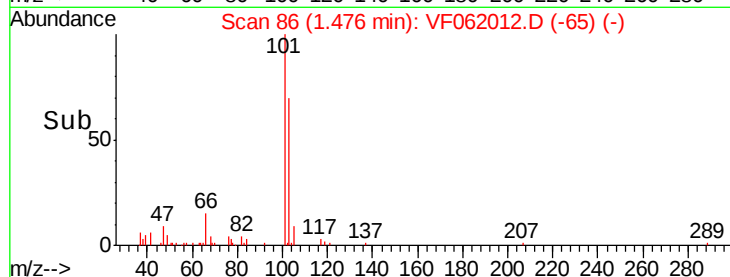
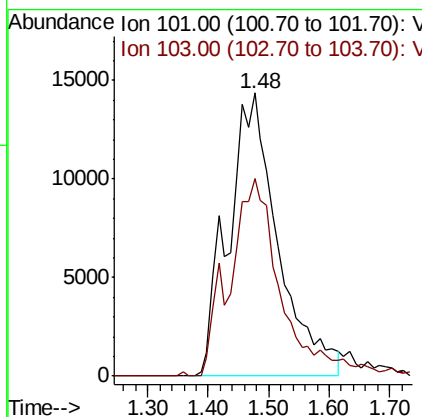
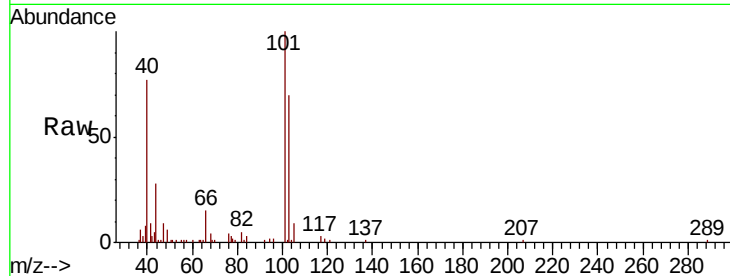
Trichlorofluoromethane
Concen: 21.602 ug/l
RT: 1.48 min Scan# 86
Delta R.T. 0.01 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	69.9	47.3	70.9

Manual Integrations
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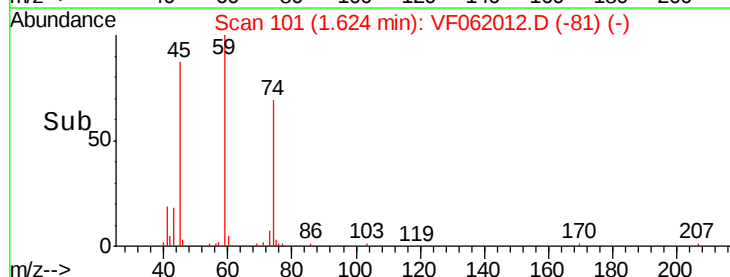
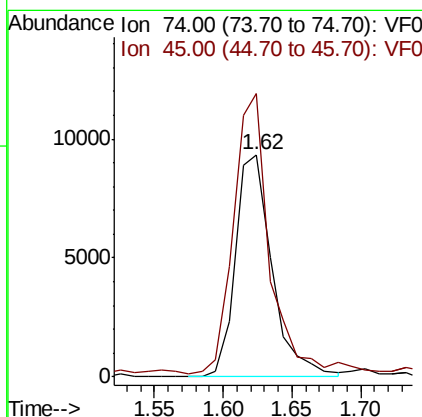
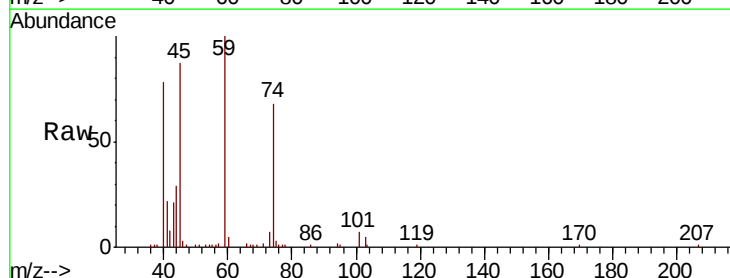
MMDadoda
3/22/2019 4:54:01 PM

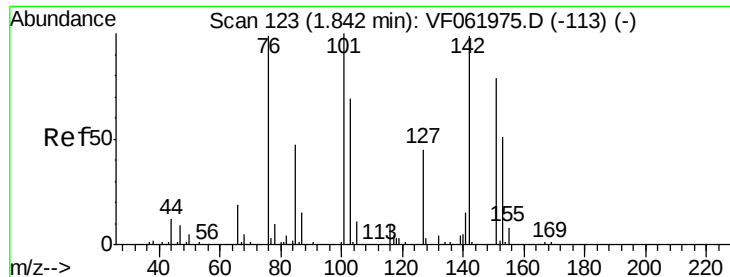


#8

Diethyl Ether
Concen: 20.445 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.4	56.3	168.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.914 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

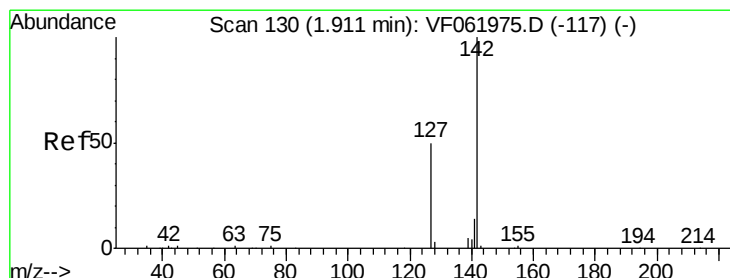
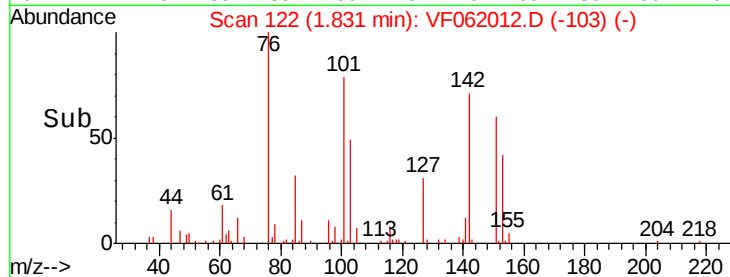
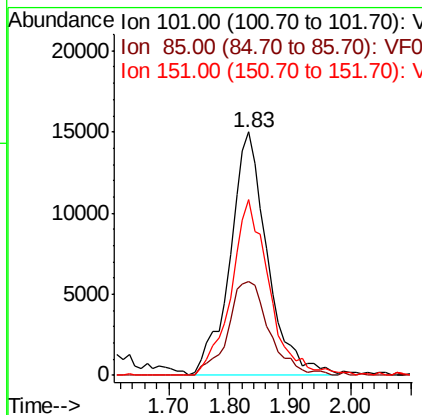
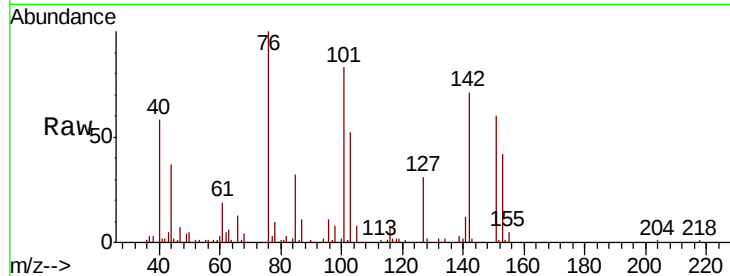
ClientSampleId :

VF0319SBS01

Tot Ion:	101	Resp:	64394
Ion Ratio	Lower	Upper	
101	100		
85	38.8	36.8	55.2
151	73.2	62.2	93.2

Manual Integrations
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MMDadoda
3/22/2019 4:54:01 PM



#10

Methyl Iodide

Concen: 22.828 ug/l m

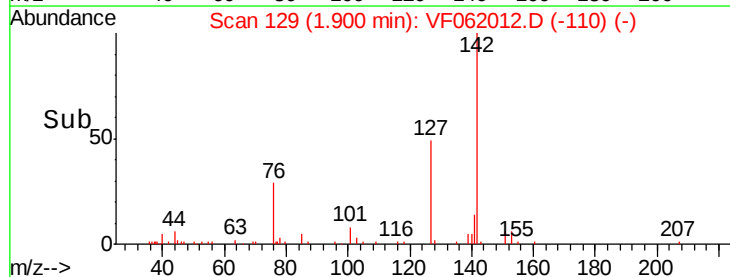
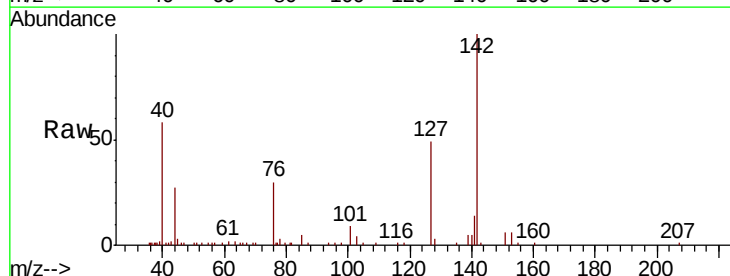
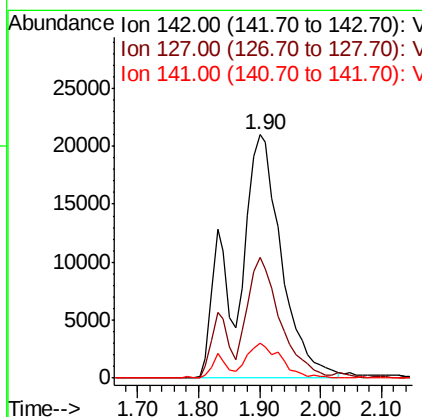
RT: 1.90 min Scan# 129

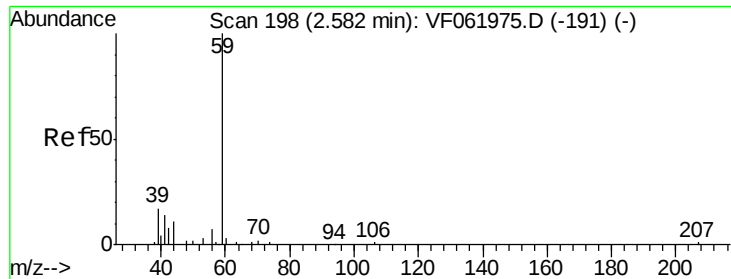
Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	142	Resp:	107615
Ion Ratio	Lower	Upper	
142	100		
127	49.4	39.7	59.5
141	14.3	10.8	16.2





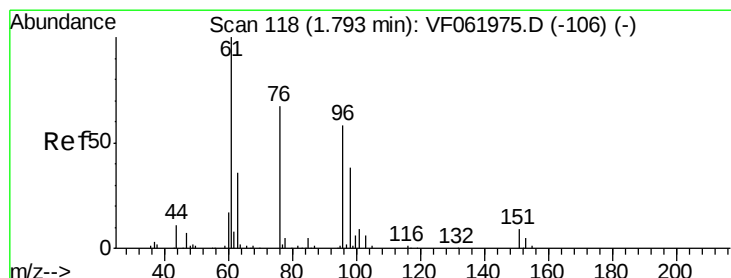
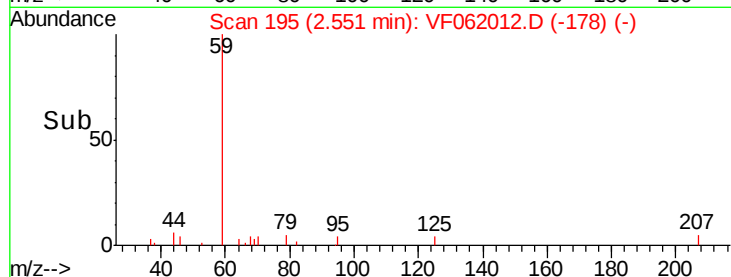
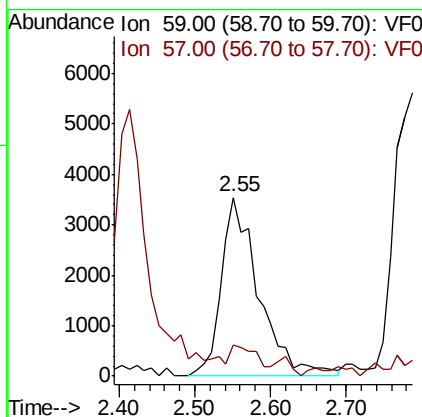
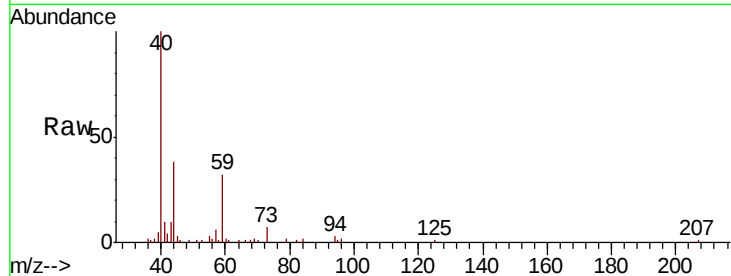
#11
Tert butyl alcohol
Concen: 100.997 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion: 59 Resp: 12249
Ion Ratio Lower Upper
59 100
57 17.5 8.7 13.1#

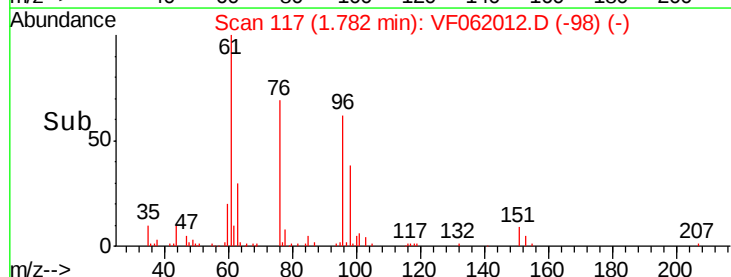
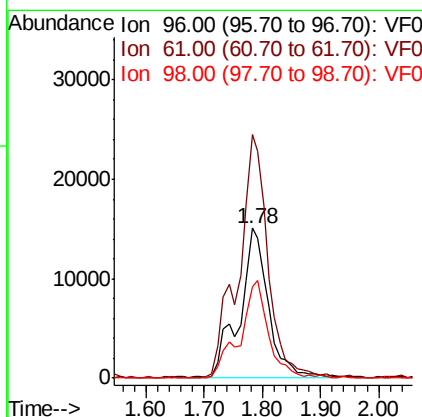
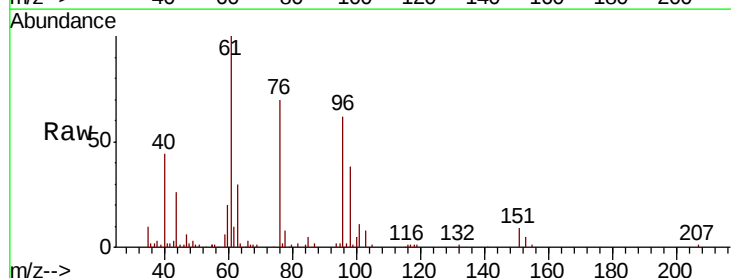
Manual Integrations
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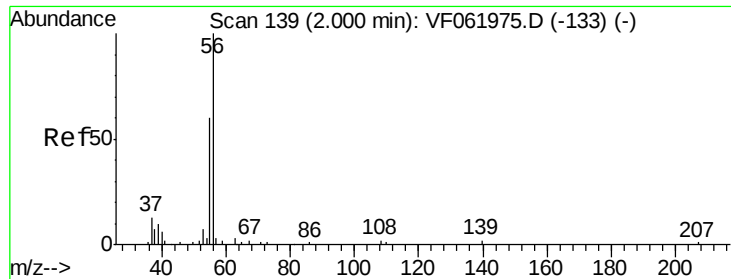
MMDadoda
3/22/2019 4:54:01 PM



#12
1,1-Dichloroethene
Concen: 22.732 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion: 96 Resp: 52827
Ion Ratio Lower Upper
96 100
61 162.3 138.6 208.0
98 61.2 53.2 79.8





#13

Acrolein

Concen: 99.751 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 56 Resp: 13060

Ion Ratio Lower Upper

56 100

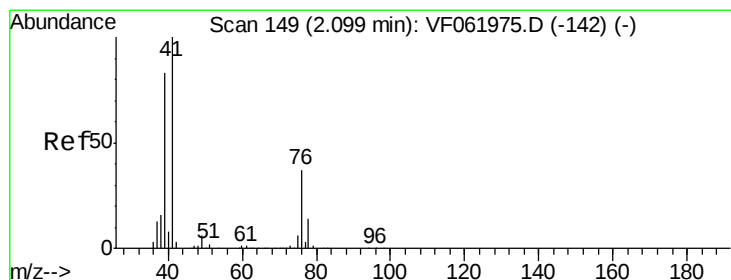
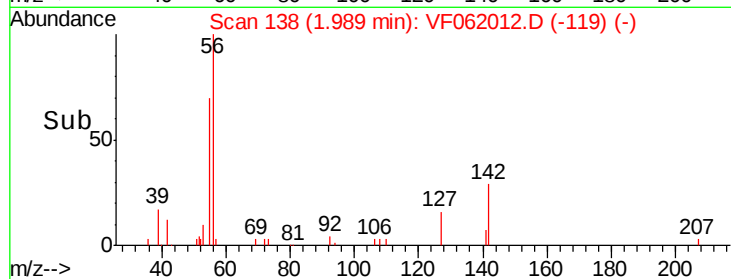
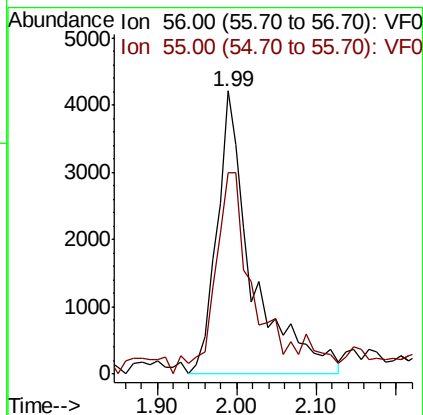
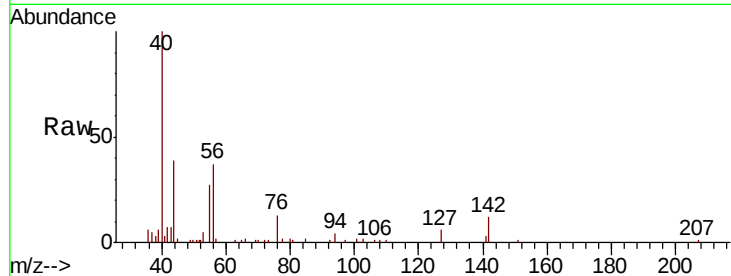
55 71.4 49.1 73.7

Manual Integrations

APPROVED

MMDadoda

3/22/2019 4:54:01 PM



#14

Allyl chloride

Concen: 21.259 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

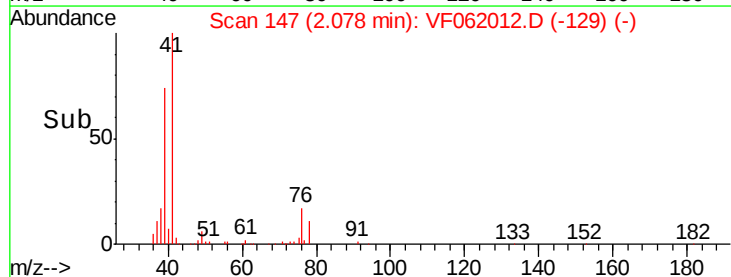
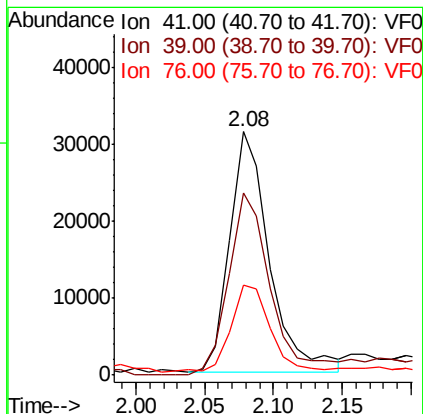
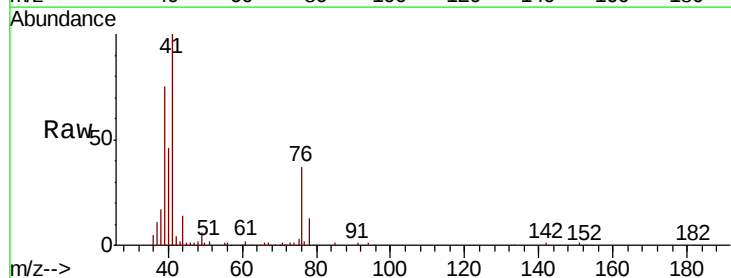
Tgt Ion: 41 Resp: 63062

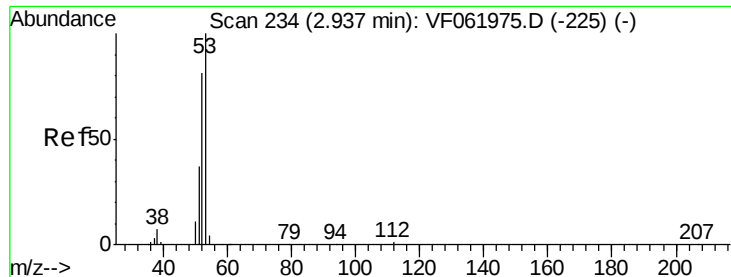
Ion Ratio Lower Upper

41 100

39 74.7 66.8 100.2

76 37.1 31.1 46.7





#15

Acrylonitrile

Concen: 102.397 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

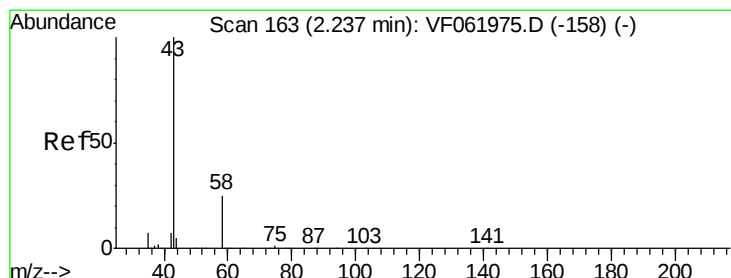
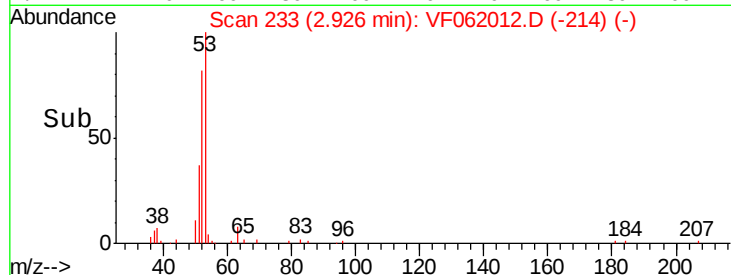
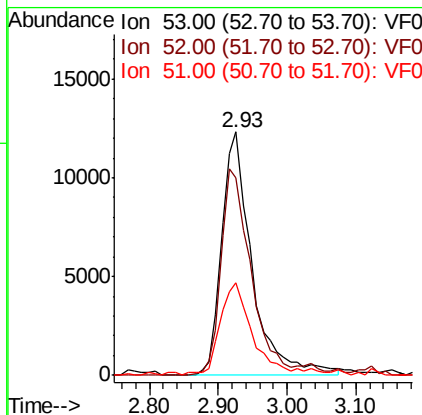
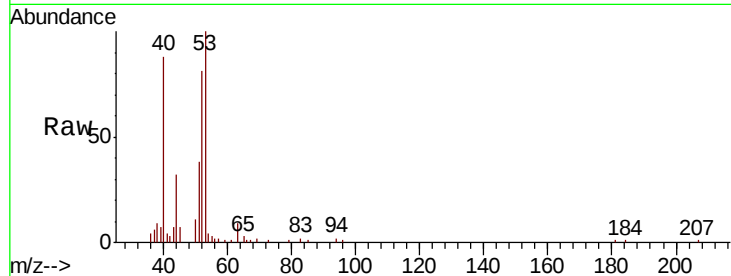
ClientSampleId :

VF0319SBS01

Tot Ion:	53	Resp:	37765
Ion	Ratio	Lower	Upper
53	100		
52	81.3	64.4	96.6
51	37.9	30.3	45.5

Manual Integrations
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#16

Acetone

Concen: 112.201 ug/l

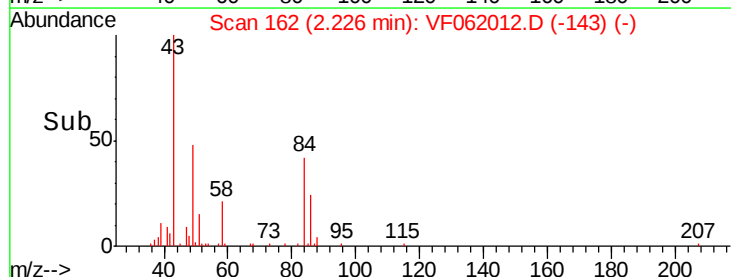
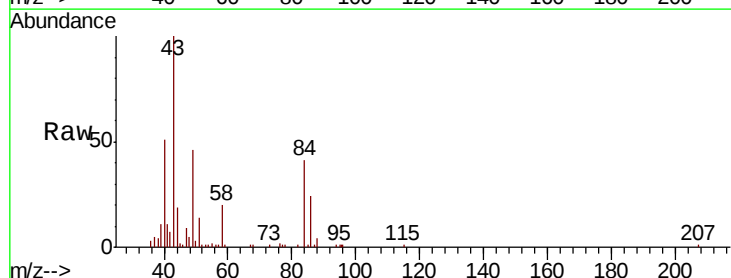
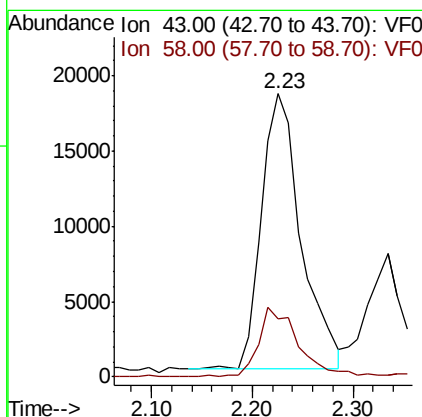
RT: 2.23 min Scan# 162

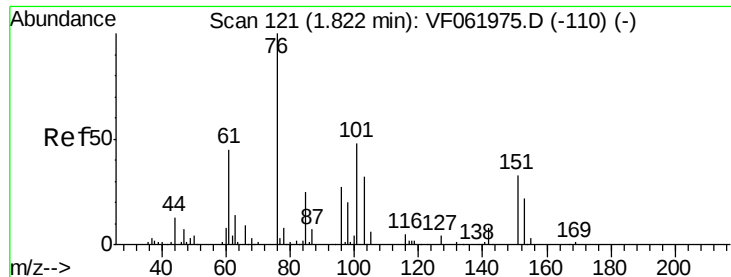
Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	43	Resp:	49937
Ion	Ratio	Lower	Upper
43	100		
58	20.4	19.9	29.9





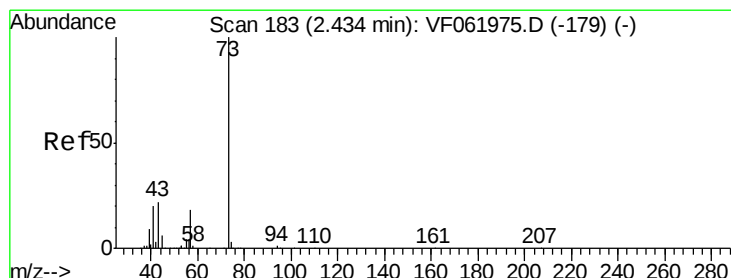
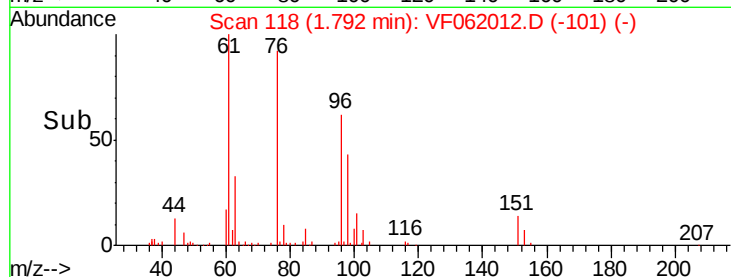
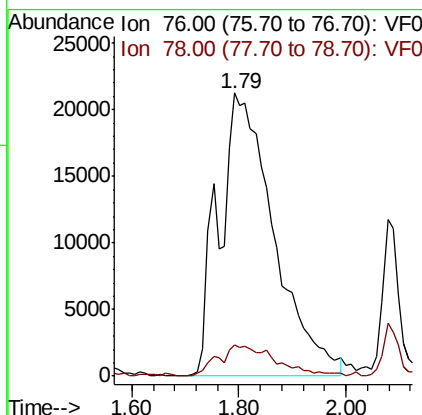
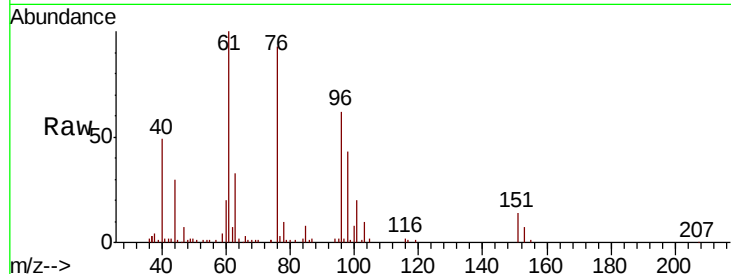
#17
Carbon Disulfide
Concen: 22.506 ug/l m
RT: 1.79 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion: 76 Resp: 151183
Ion Ratio Lower Upper
76 100
78 11.2 6.8 10.2#

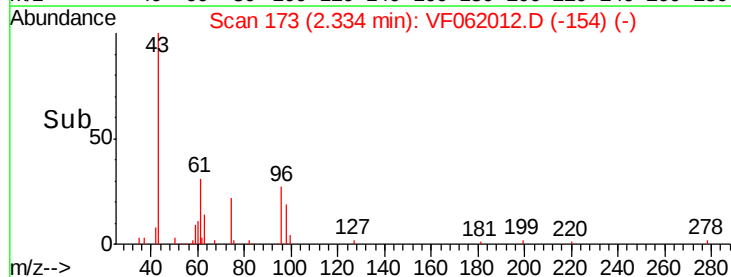
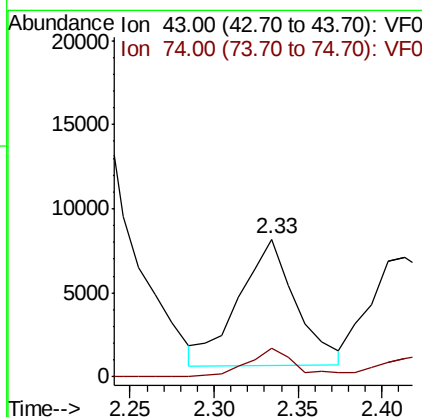
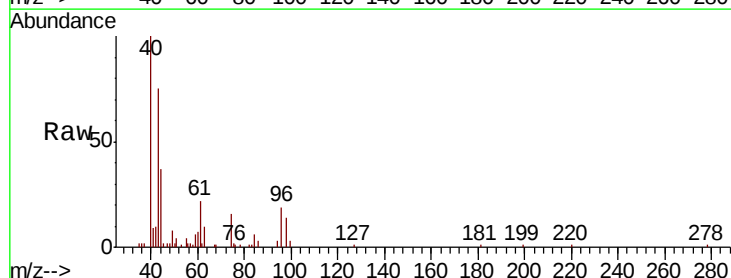
Manual Integrations
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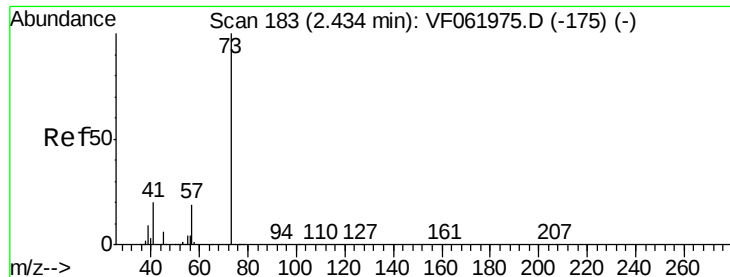
MMDadoda
3/22/2019 4:54:01 PM



#18
Methyl Acetate
Concen: 17.687 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion: 43 Resp: 17839
Ion Ratio Lower Upper
43 100
74 20.8 18.3 27.5





#19

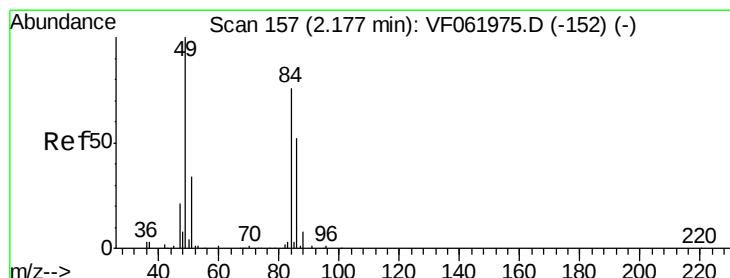
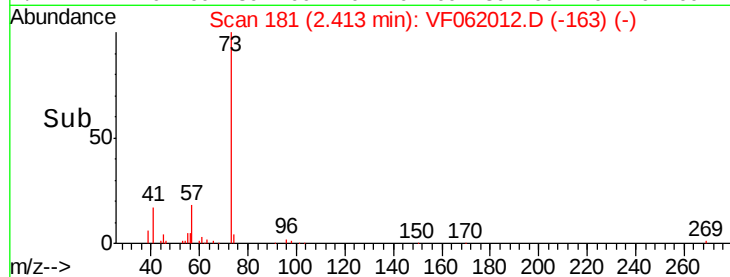
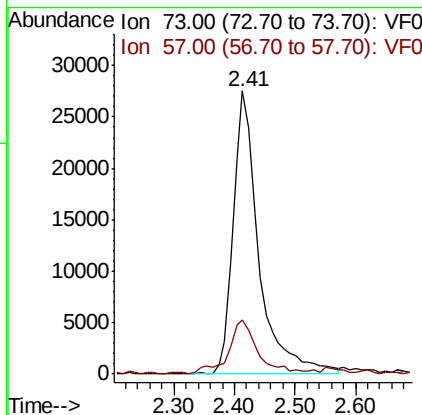
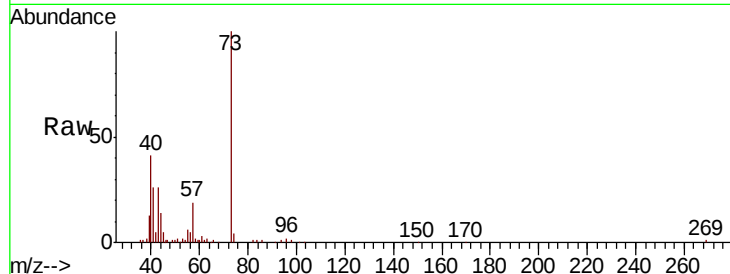
Methyl tert-butyl Ether
 Concen: 19.372 ug/l
 RT: 2.41 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	73	Resp	81574
Ion Ratio	Lower	Upper	
73	100		
57	19.2	15.3	22.9

Manual Integrations
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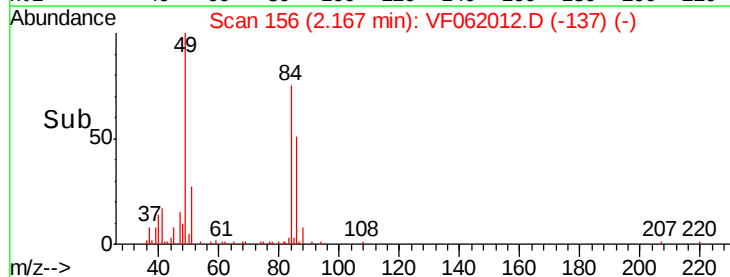
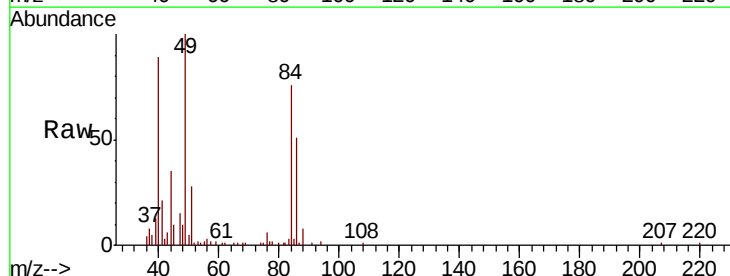
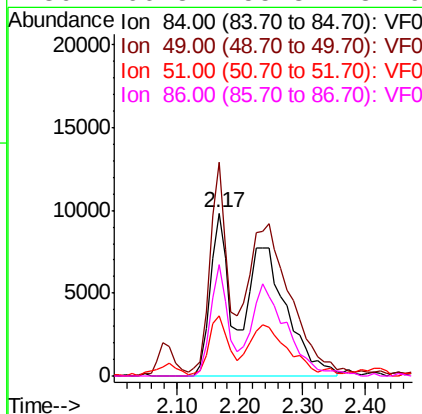
MMDadoda
 3/22/2019 4:54:01 PM

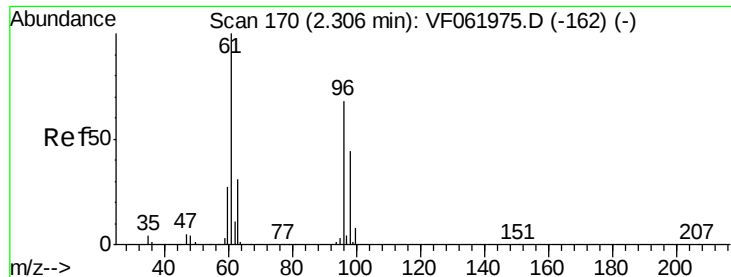


#20

Methylene Chloride
 Concen: 22.714 ug/l m
 RT: 2.17 min Scan# 156
 Delta R.T. -0.01 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	84	Resp	52746
Ion Ratio	Lower	Upper	
84	100		
49	131.1	107.0	160.6
51	36.9	37.2	55.8#
86	66.8	55.3	82.9





#21

trans-1,2-Dichloroethene

Concen: 17.473 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

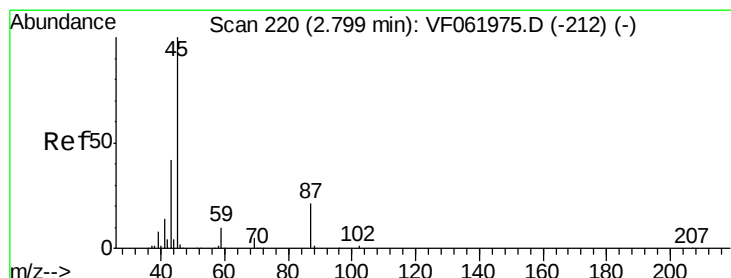
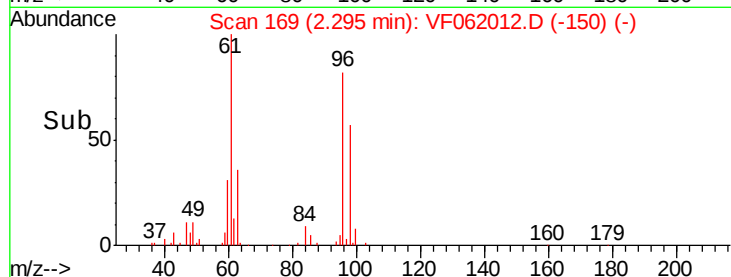
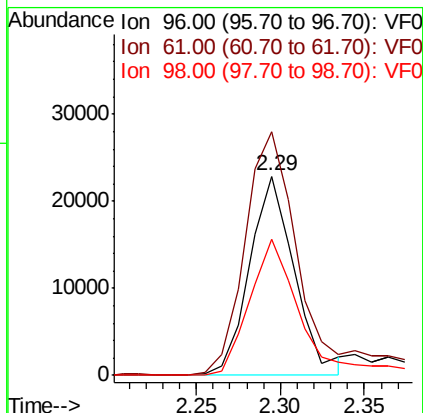
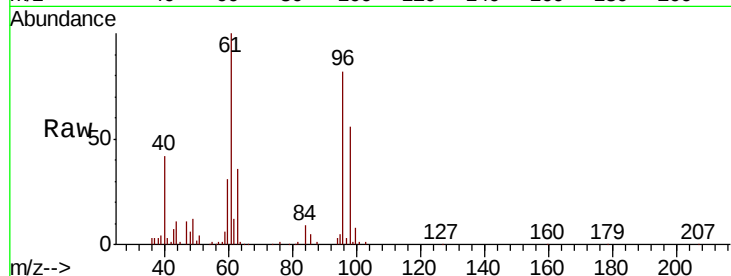
ClientSampleId :

VF0319SBS01

Tot Ion:	96	Resp:	42375
Ion	Ratio	Lower	Upper
96	100		
61	122.2	117.4	176.2
98	68.5	51.2	76.8

Manual Integrations
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MMDadoda
3/22/2019 4:54:01 PM



#22

Diisopropyl ether

Concen: 19.950 ug/l

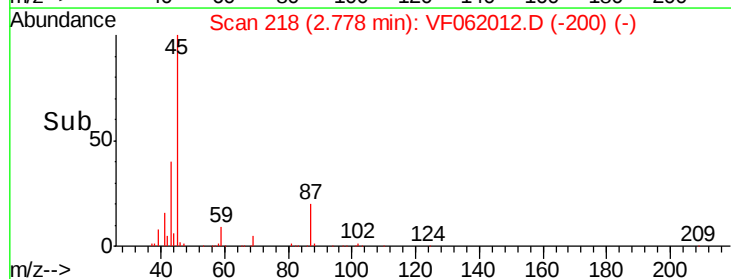
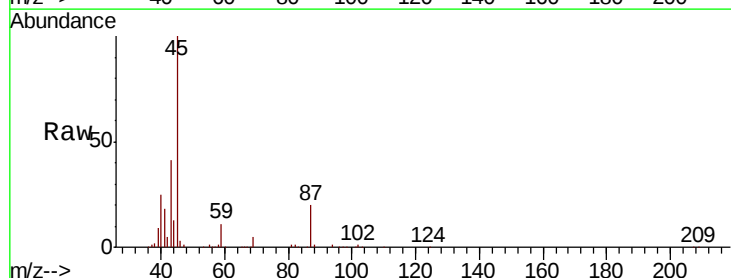
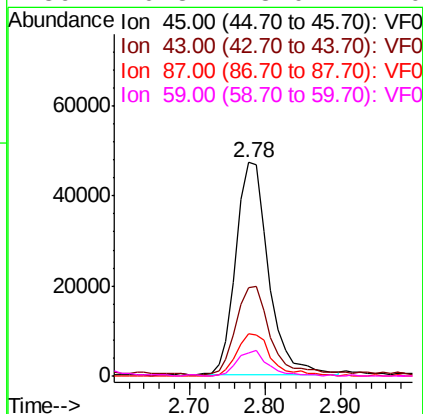
RT: 2.78 min Scan# 218

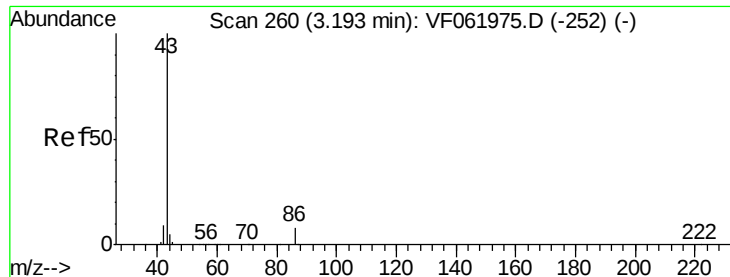
Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	45	Resp:	142346
Ion	Ratio	Lower	Upper
45	100		
43	41.3	33.7	50.5
87	20.0	17.1	25.7
59	10.8	8.0	12.0





#23

Vinyl Acetate

Concen: 111.539 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 43 Resp: 313736

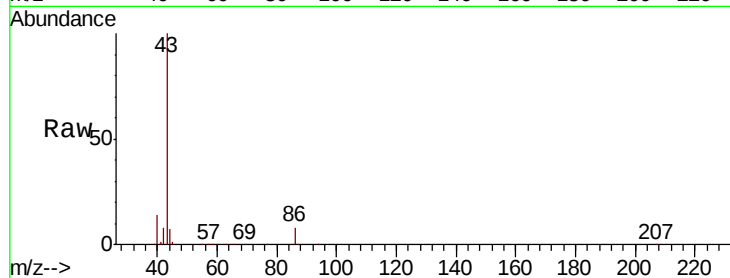
Ion Ratio Lower Upper

43 100

86 7.6 6.5 9.7

Manual Integrations
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MMDadoda
3/22/2019 4:54:01 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.17

120000

100000

80000

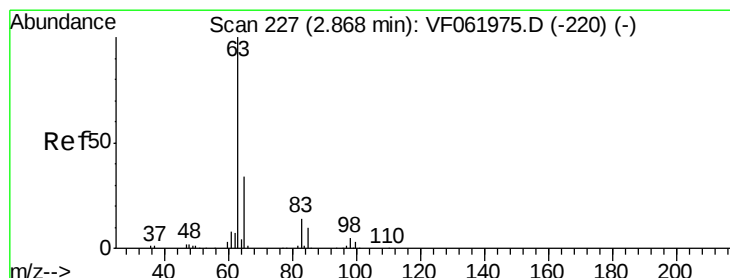
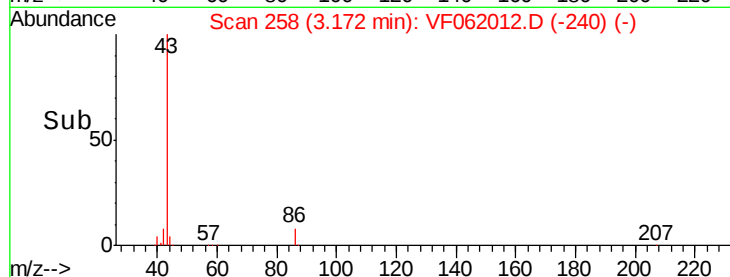
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.714 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

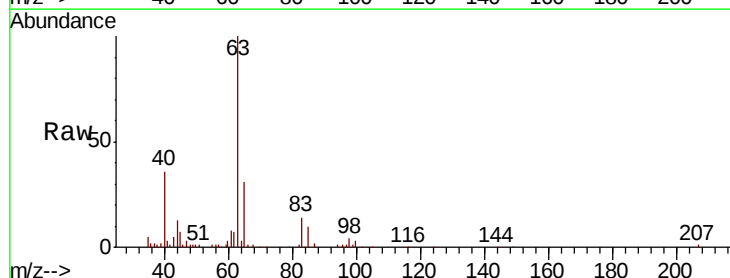
Tgt Ion: 63 Resp: 85937

Ion Ratio Lower Upper

63 100

98 4.3 2.7 8.1

100 3.3 1.7 5.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

40000

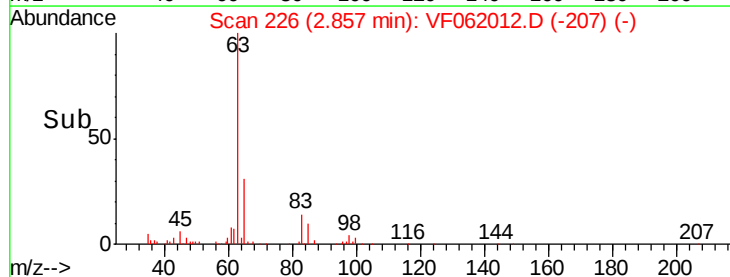
30000

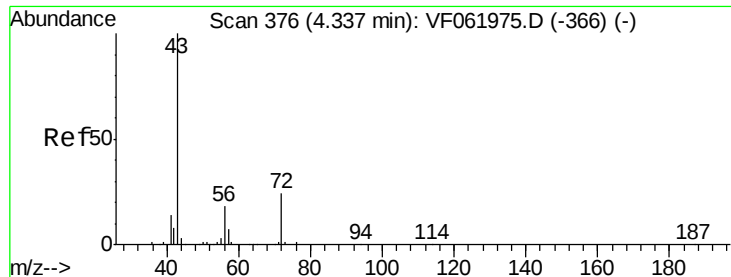
20000

10000

0

Time-->





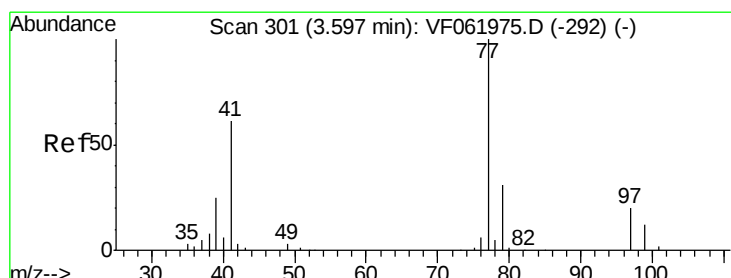
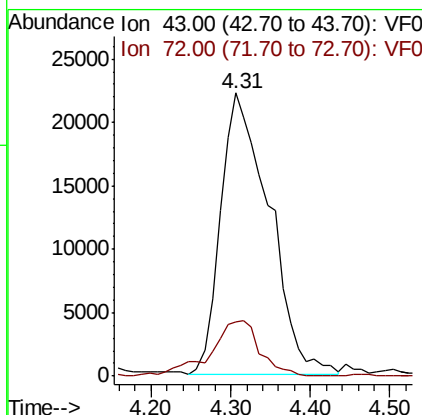
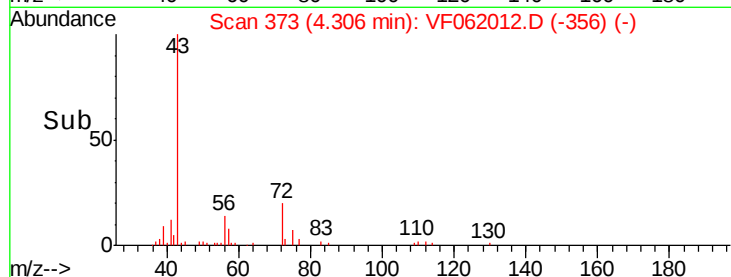
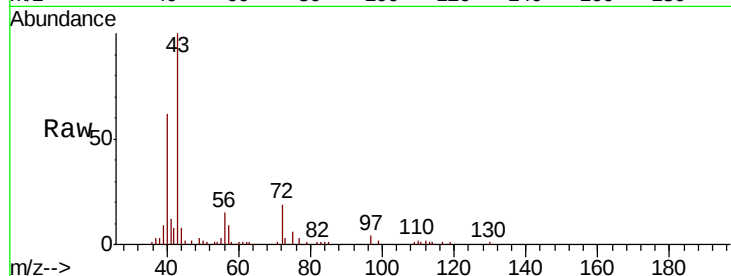
#25
2-Butanone
Concen: 106.951 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion: 43 Resp: 94271
Ion Ratio Lower Upper
43 100
72 19.3 19.8 29.6#

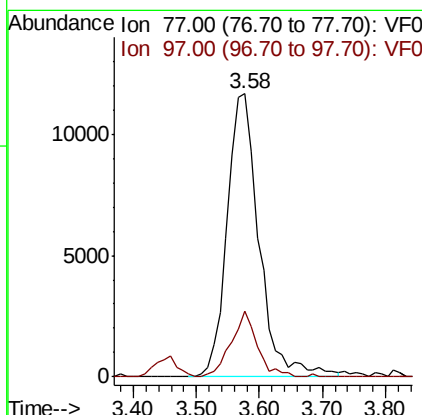
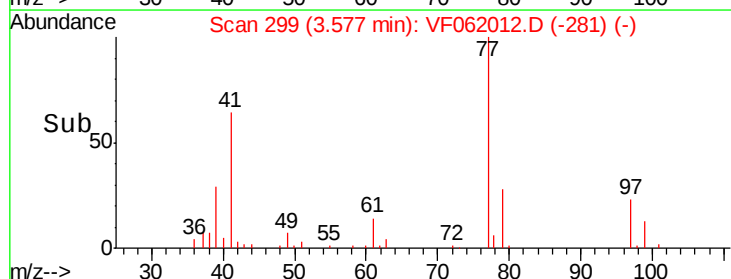
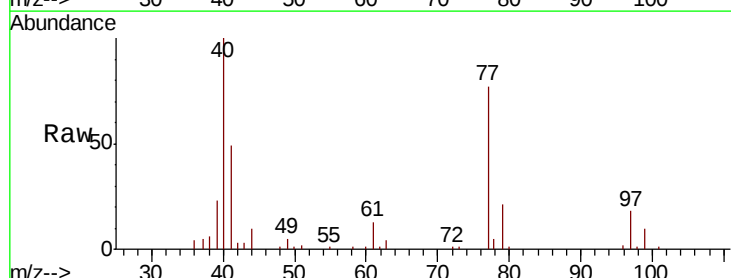
Manual Integrations
APPROVED

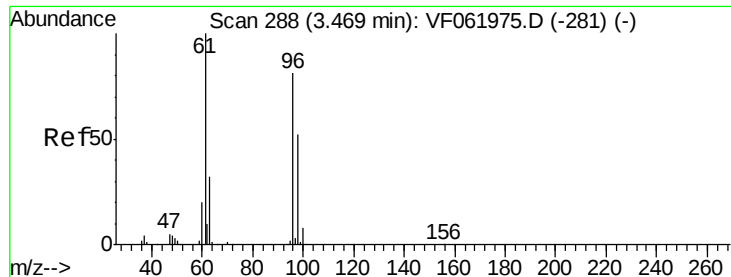
MMDadoda
3/22/2019 4:54:01 PM



#26
2,2-Dichloropropane
Concen: 20.819 ug/l
RT: 3.58 min Scan# 299
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion: 77 Resp: 40742
Ion Ratio Lower Upper
77 100
97 23.0 10.8 32.4





#27

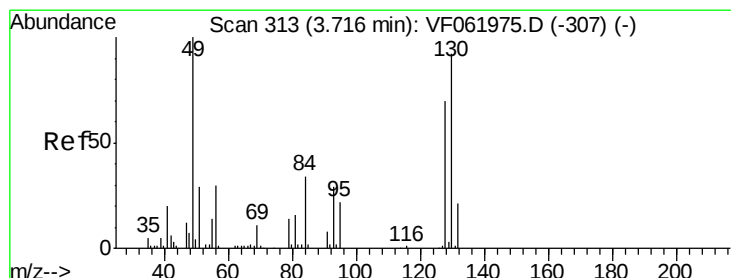
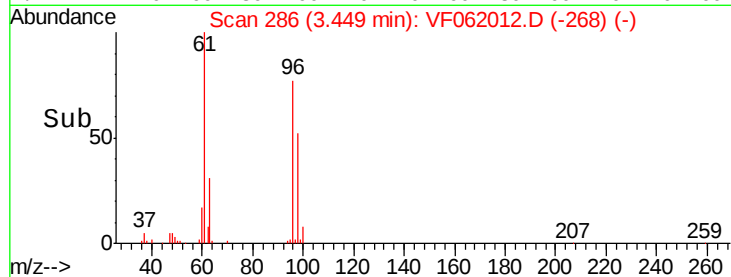
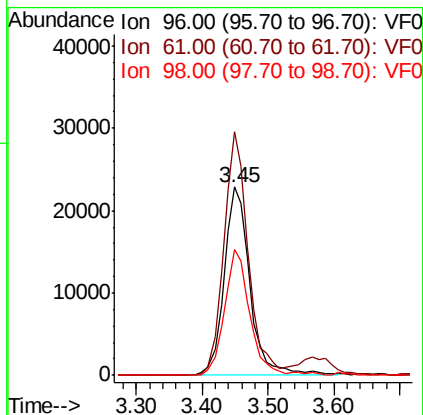
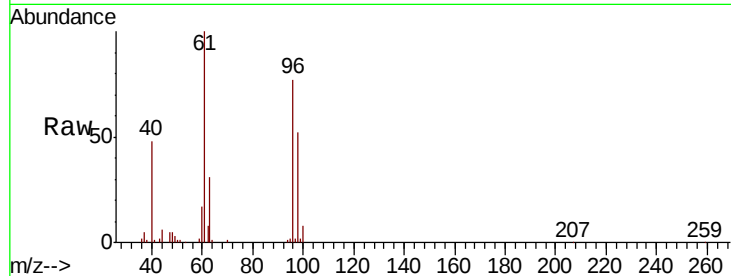
cis-1,2-Dichloroethene
Concen: 20.495 ug/l
RT: 3.45 min Scan# 286
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.2	0.0	246.6
98	67.0	0.0	129.2

Manual Integrations
APPROVED

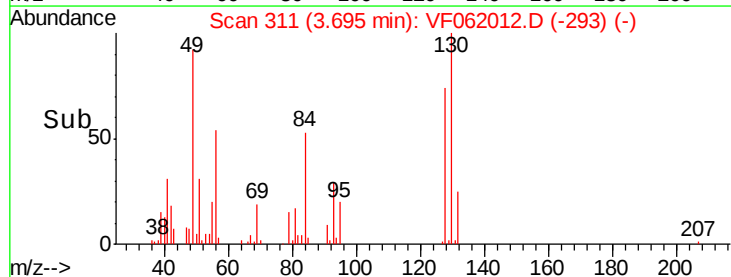
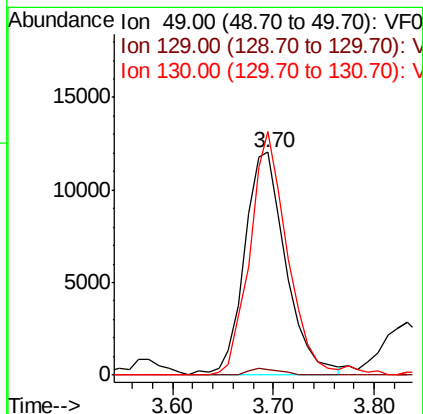
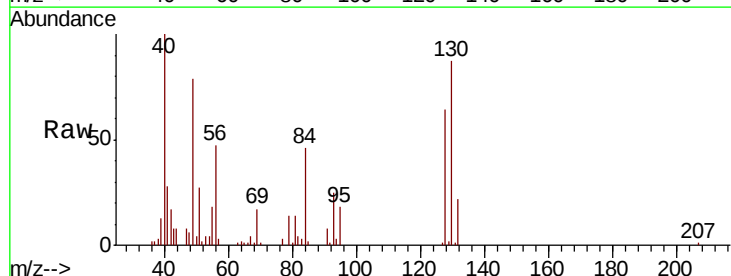
MMDadoda
3/22/2019 4:54:01 PM

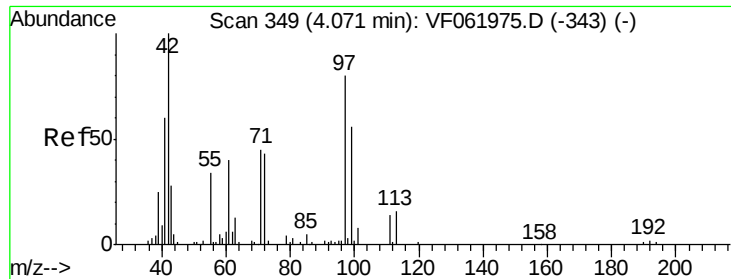


#28

Bromochloromethane
Concen: 19.976 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	5.8
130	109.2	73.1	109.7





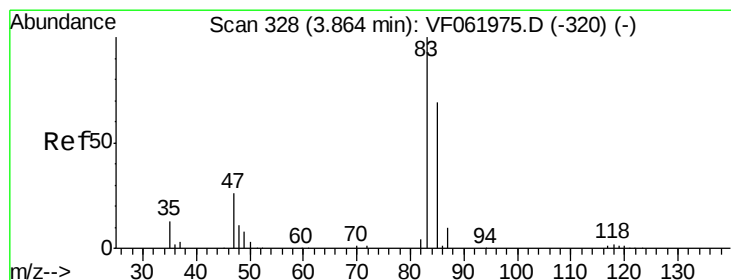
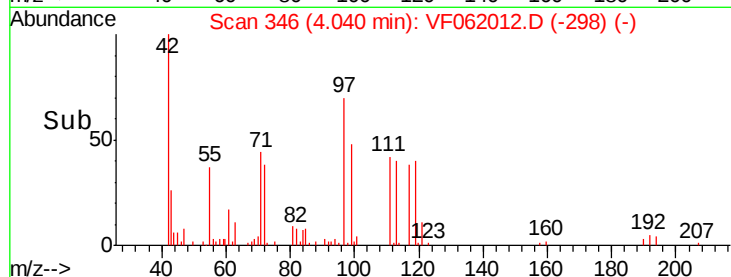
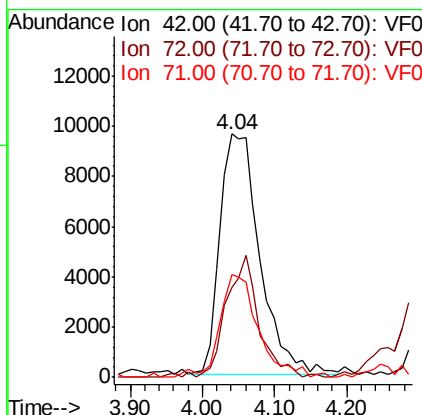
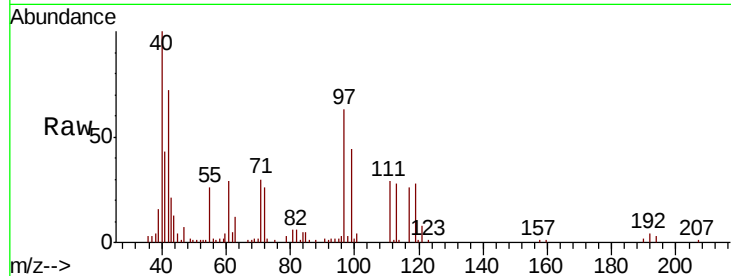
#29
Tetrahydrofuran
Concen: 96.480 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.0	51.0
71	41.3	34.2	51.4

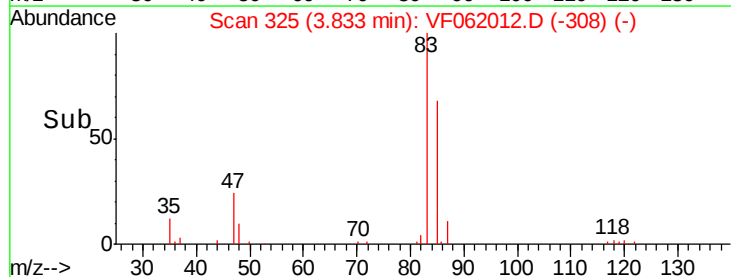
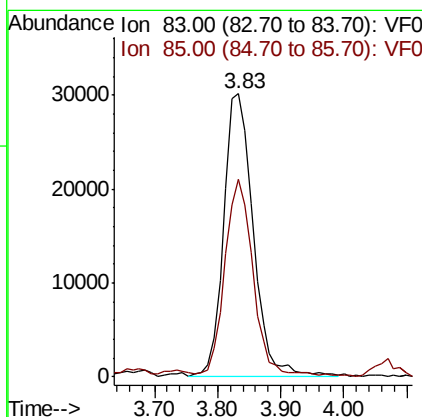
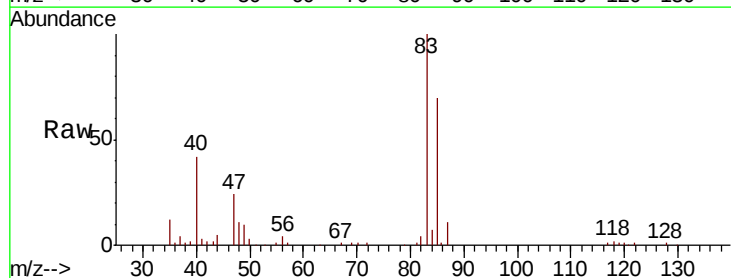
Manual Integrations
APPROVED

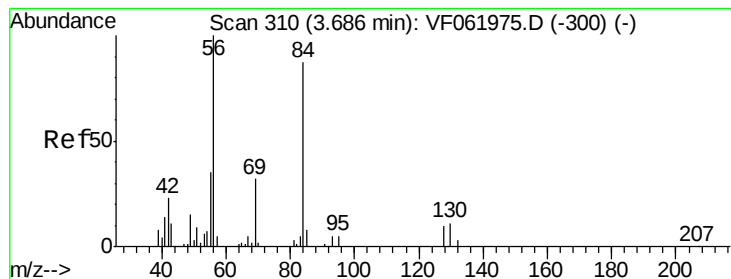
MMDadoda
3/22/2019 4:54:01 PM



#30
Chloroform
Concen: 20.921 ug/l
RT: 3.83 min Scan# 325
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.8	55.5	83.3





#31

Cyclohexane

Concen: 21.497 ug/l m

RT: 3.67 min Scan# 308

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

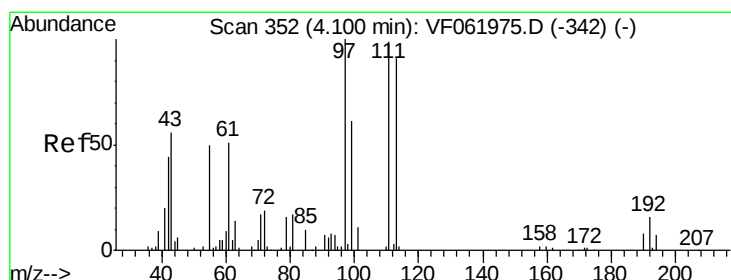
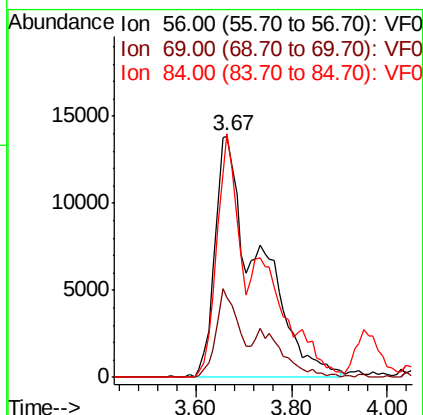
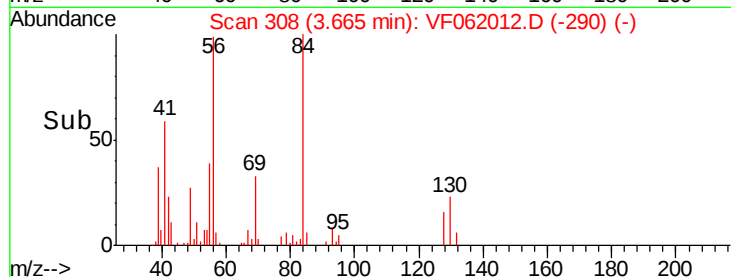
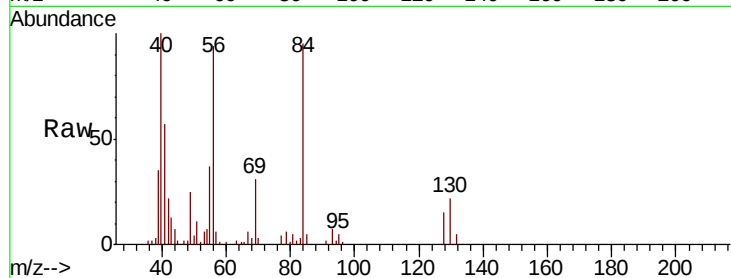
ClientSampleId :

VF0319SBS01

Tot Ion:	56	Resp:	88106
Ion Ratio	Lower	Upper	
56	100		
69	33.1	25.8	38.8
84	100.8	69.5	104.3

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.261 ug/l

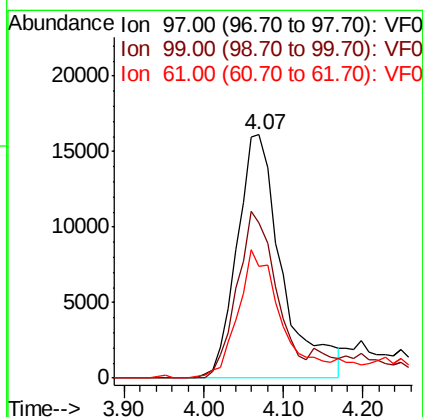
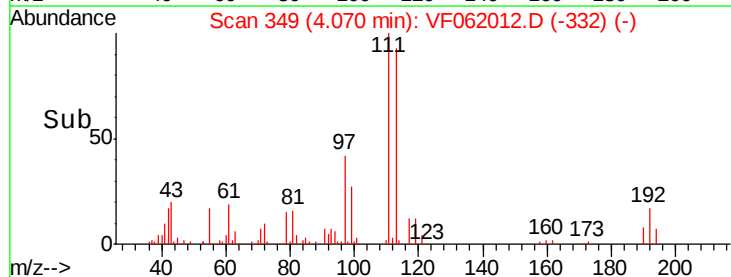
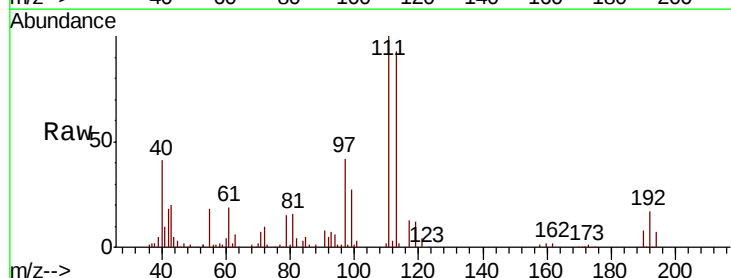
RT: 4.07 min Scan# 349

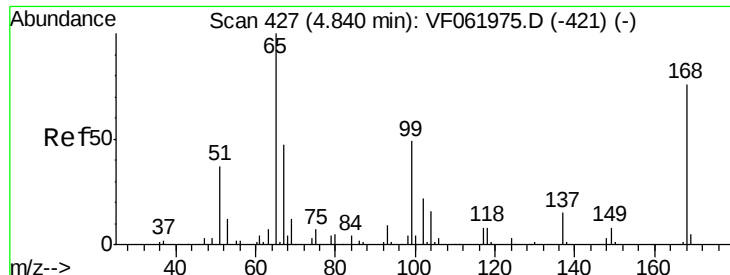
Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	97	Resp:	63253
Ion Ratio	Lower	Upper	
97	100		
99	63.8	49.0	73.4
61	45.8	41.4	62.0





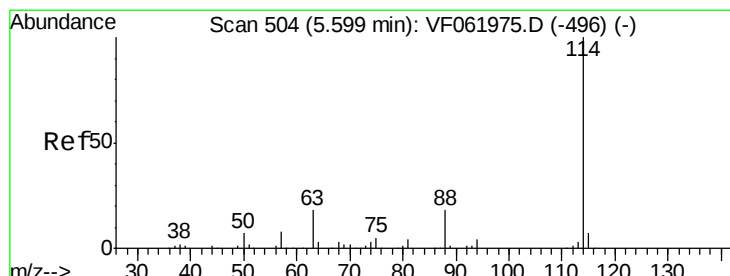
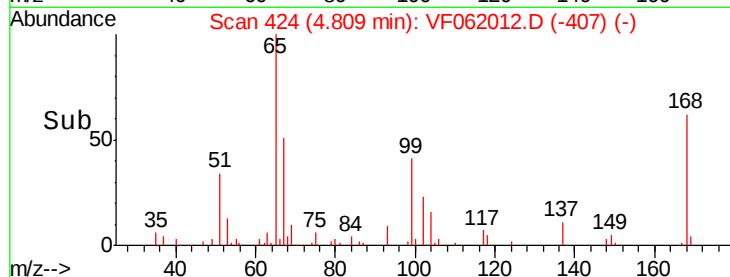
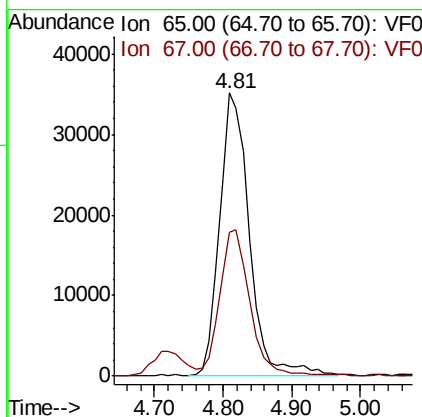
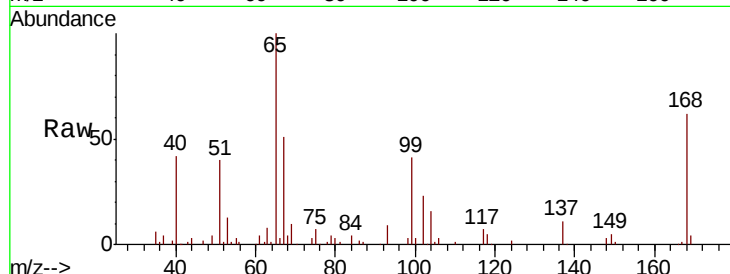
#33
 1,2-Dichloroethane-d4
 Concen: 53.378 ug/l
 RT: 4.81 min Scan# 424
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	105796		
67	51.0	0.0	109.4	

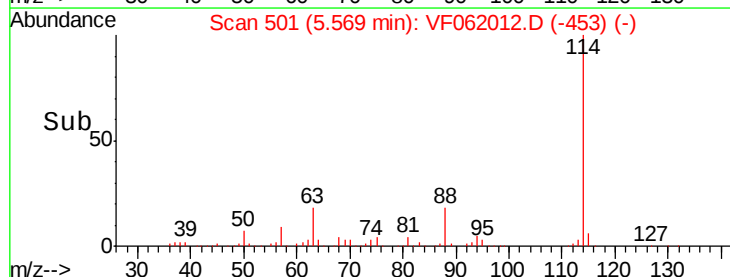
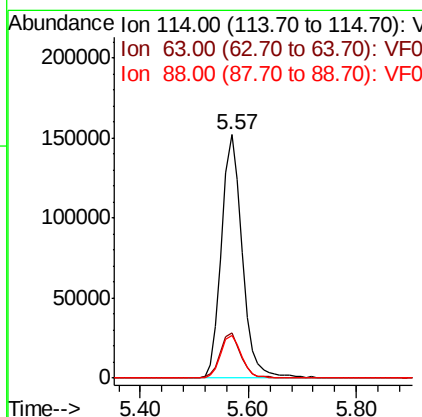
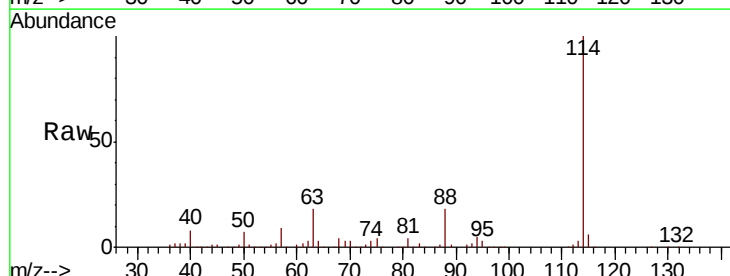
Manual Integrations
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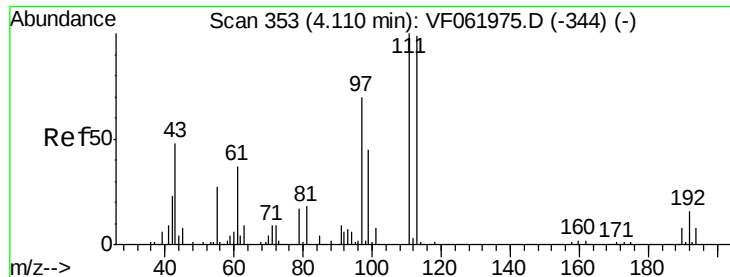
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	406207		
63	18.5	0.0	36.4	
88	17.6	0.0	36.4	





#35

Dibromofluoromethane

Concen: 52.159 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

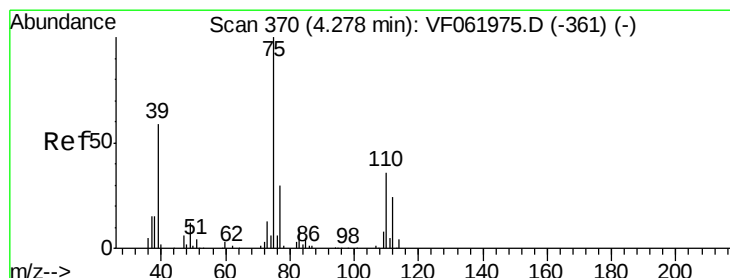
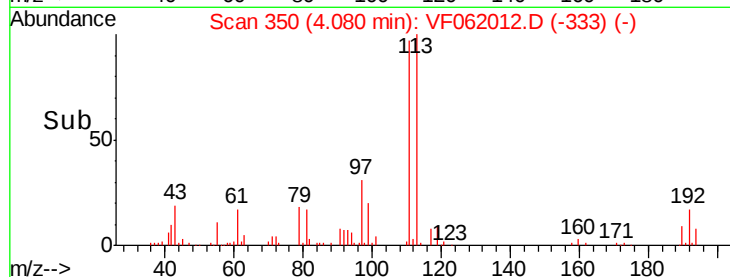
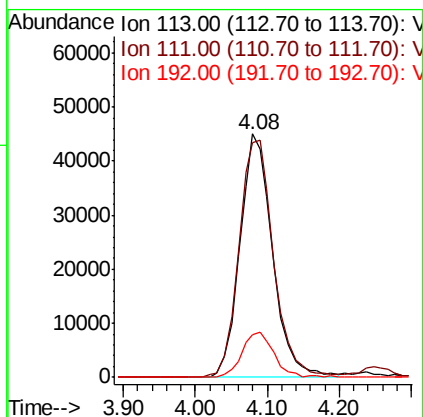
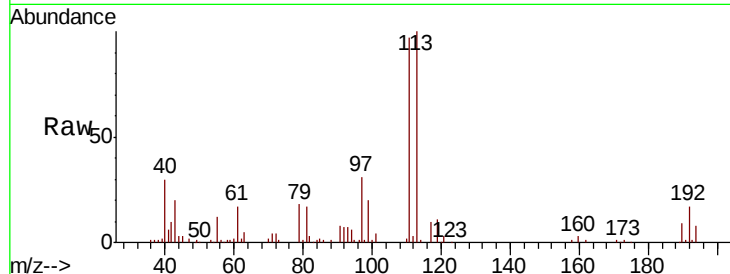
ClientSampleId :

VF0319SBS01

Tot Ion:	113	Resp:	142276
Ion Ratio	Lower	Upper	
113	100		
111	96.6	80.8	121.2
192	18.1	13.0	19.6

Manual Integrations
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3/22/2019 4:54:01 PM



#36

1,1-Dichloropropene

Concen: 22.170 ug/l

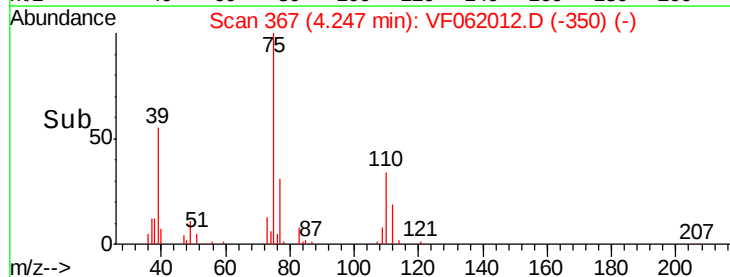
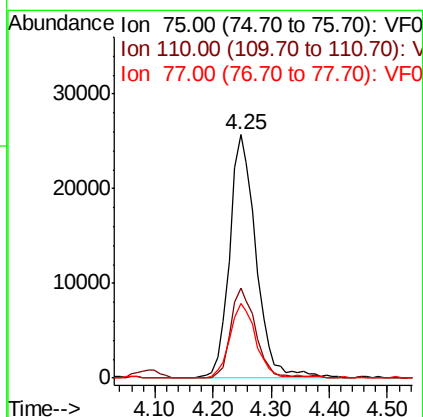
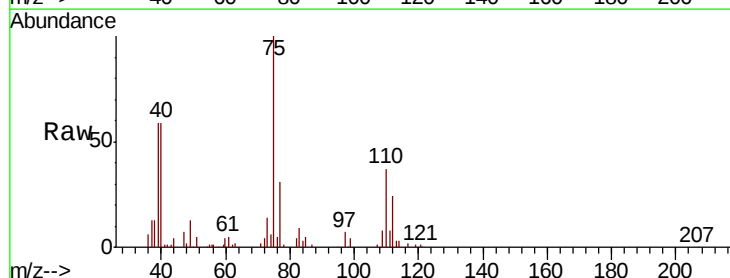
RT: 4.25 min Scan# 367

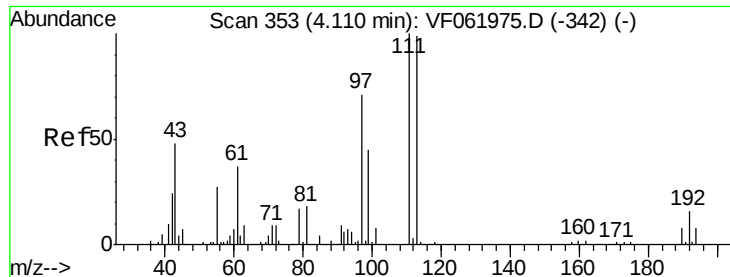
Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	75	Resp:	81326
Ion Ratio	Lower	Upper	
75	100		
110	37.1	17.8	53.3
77	30.6	24.2	36.2





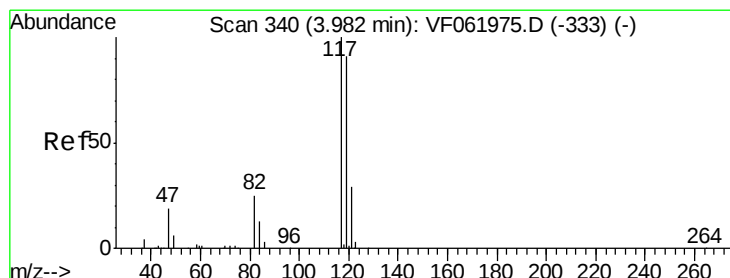
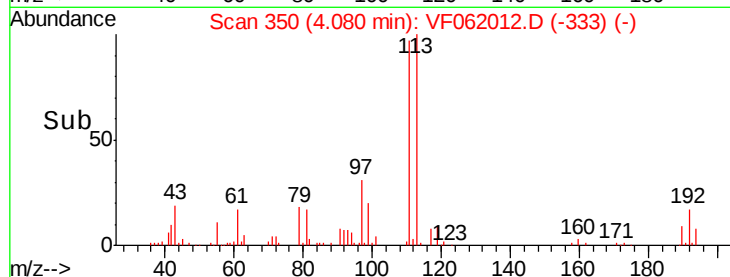
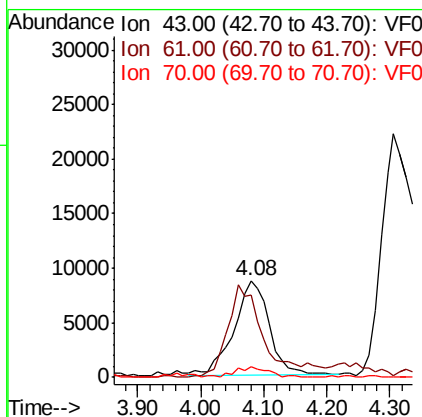
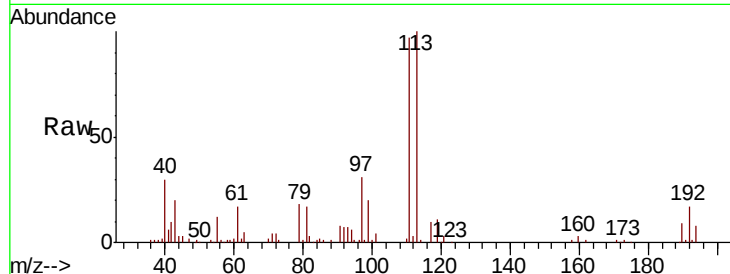
#37
Ethyl Acetate
Concen: 20.184 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	84.7	59.8	89.6
70	11.3	7.8	11.8

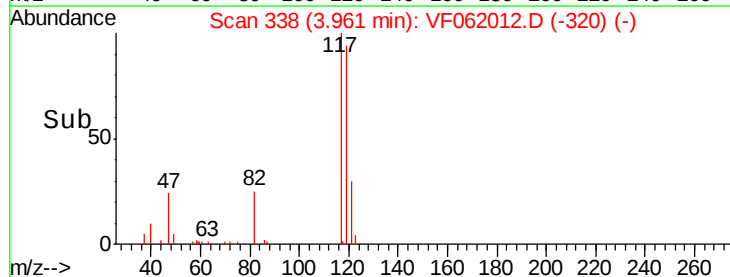
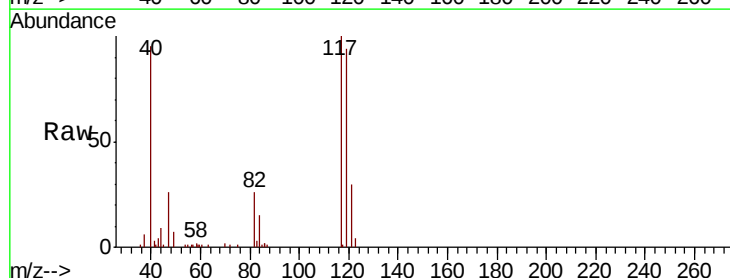
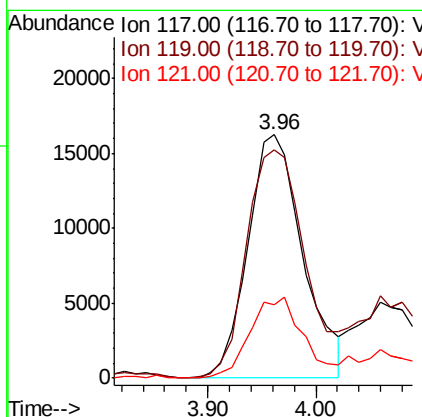
Manual Integrations
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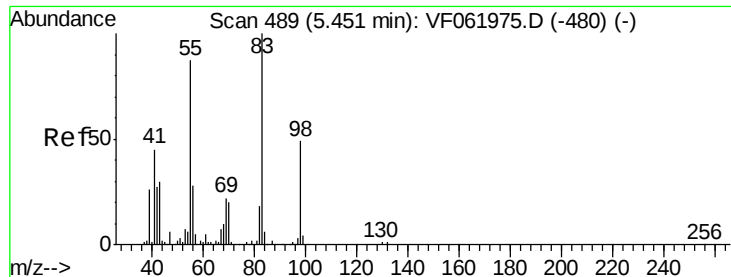
MMDadoda
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#38
Carbon Tetrachloride
Concen: 21.542 ug/l
RT: 3.96 min Scan# 338
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	73.0	109.4
121	30.1	23.0	34.6





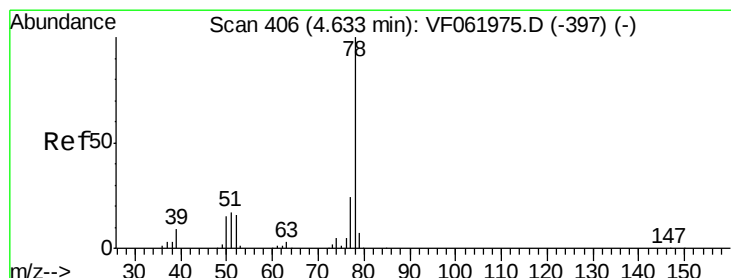
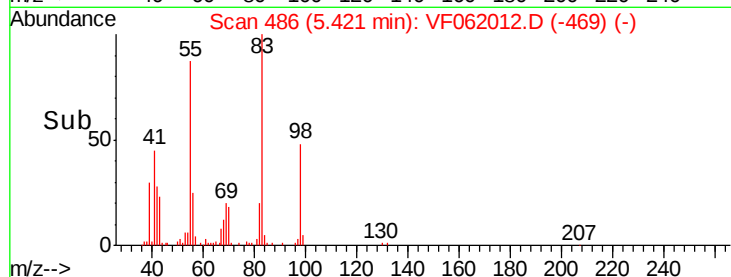
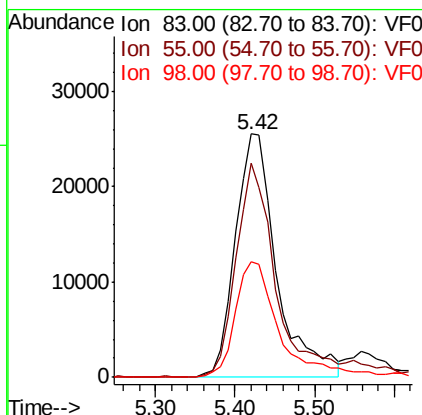
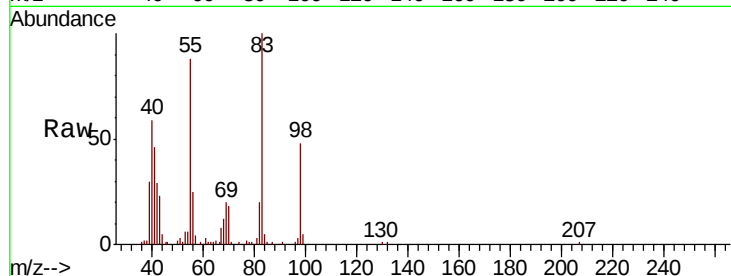
#39
Methvlcvclohexane
Concen: 21.415 ug/l
RT: 5.42 min Scan# 486
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.8	69.7	104.5
98	47.6	39.4	59.0

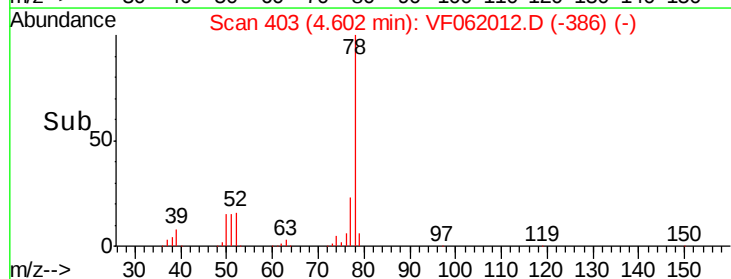
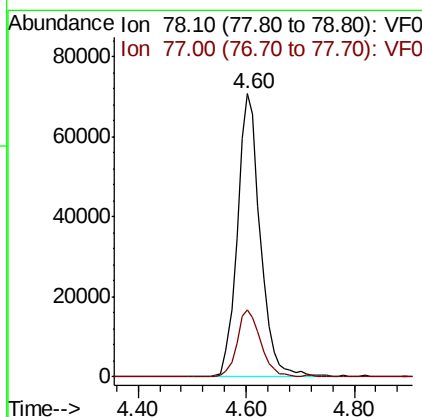
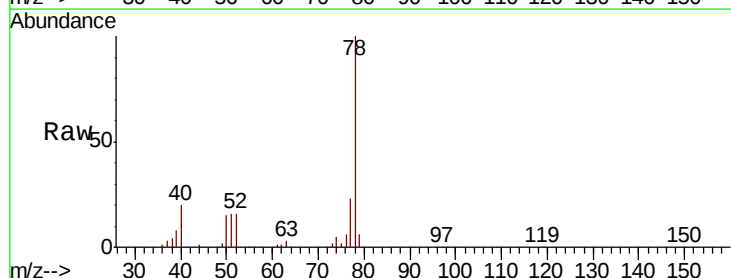
Manual Integrations
APPROVED

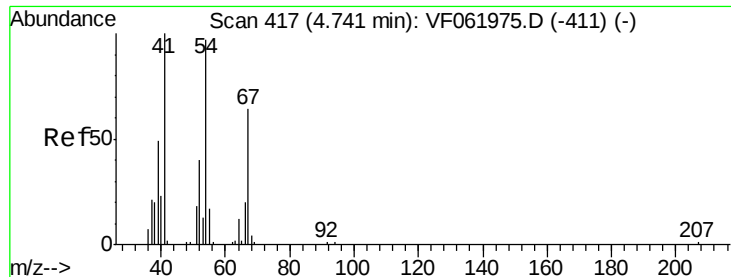
MMDadoda
3/22/2019 4:54:01 PM



#40
Benzene
Concen: 21.559 ug/l
RT: 4.60 min Scan# 403
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





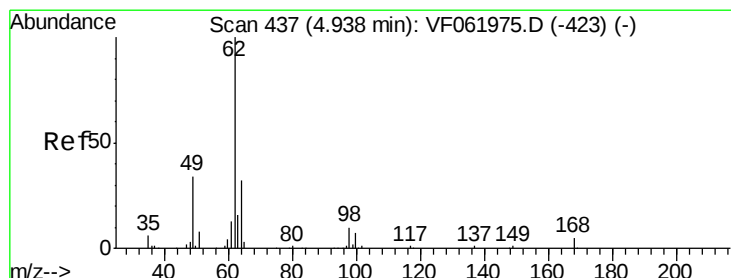
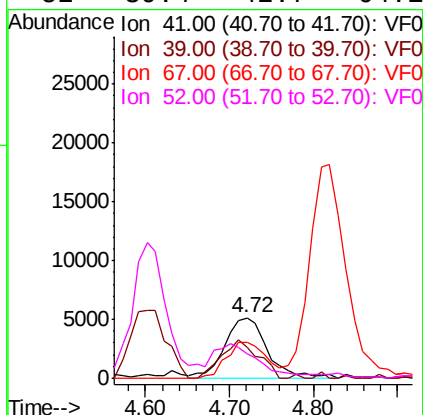
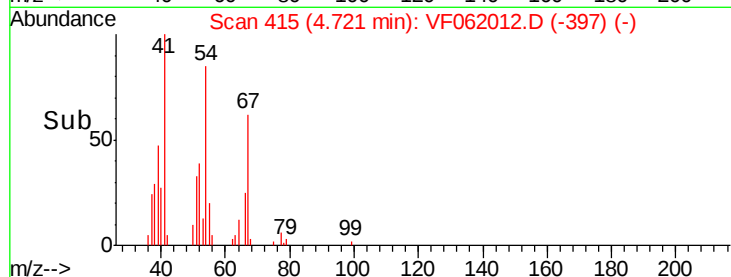
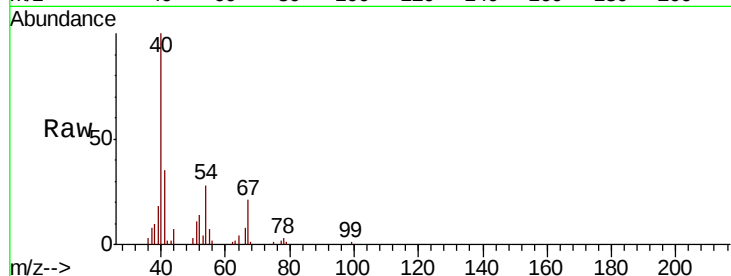
#41
Methacrylonitrile
Concen: 20.692 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.2	46.2	69.4
67	58.8	49.8	74.8
52	39.4	42.7	64.1#

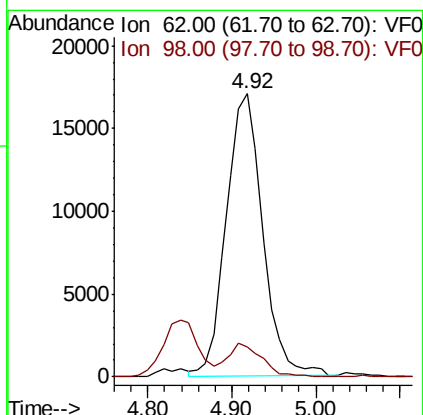
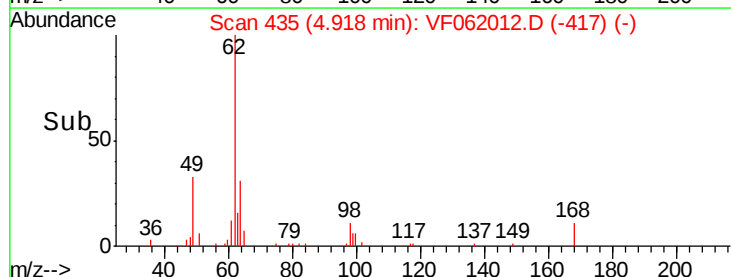
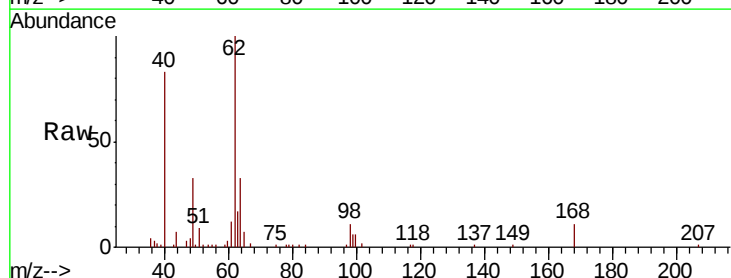
Manual Integrations
APPROVED

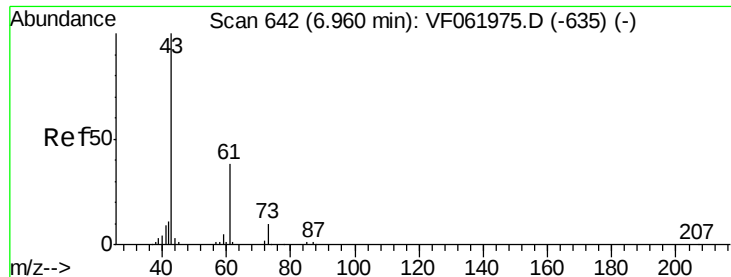
MMDadoda
3/22/2019 4:54:01 PM



#42
1,2-Dichloroethane
Concen: 21.193 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	19.8





#43

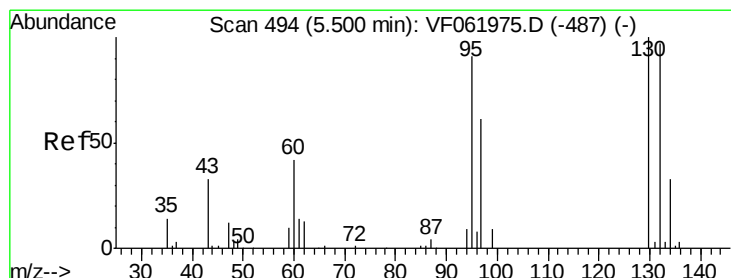
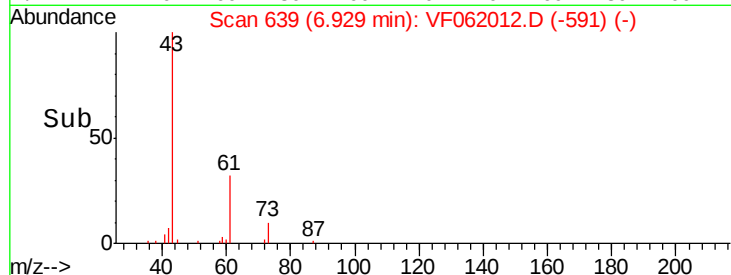
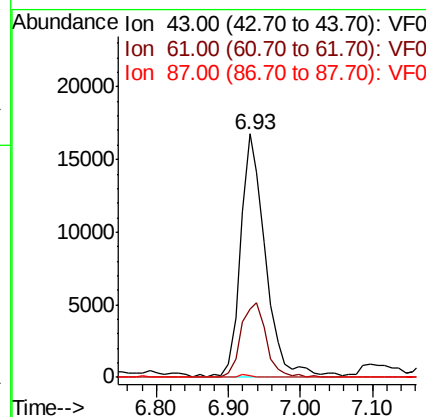
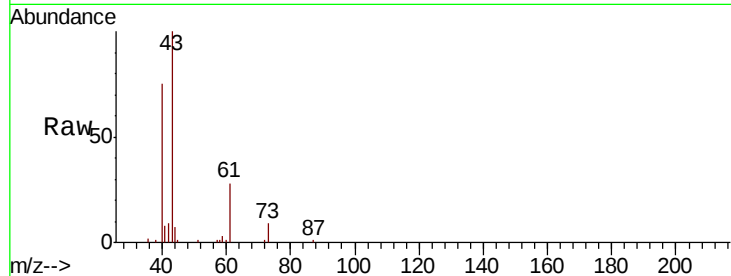
Isopropyl Acetate
 Concen: 20.814 ug/l
 RT: 6.93 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.0	30.1	45.1#
87	0.8	0.4	0.6#

Manual Integrations
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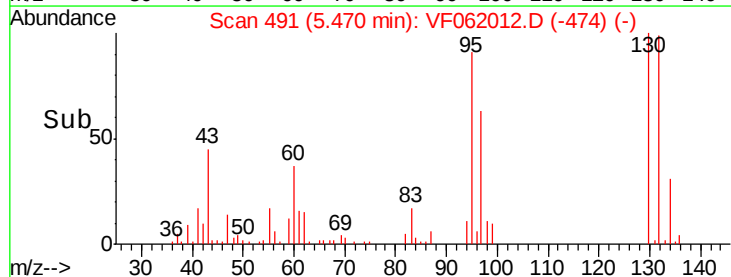
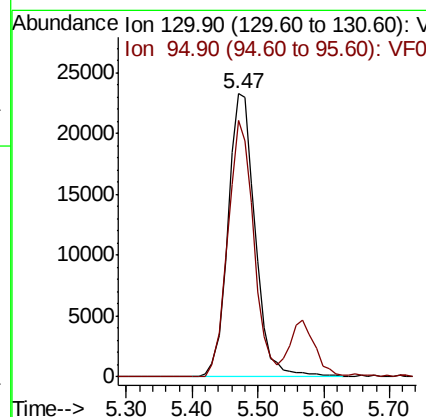
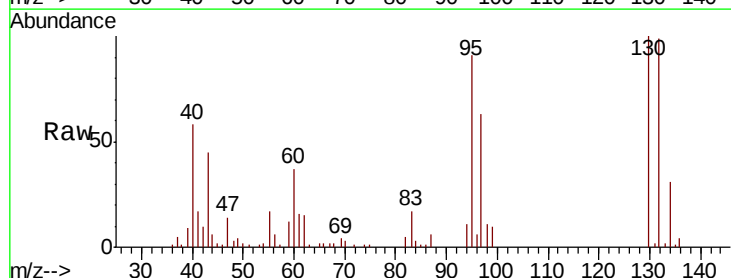
MMDadoda
 3/22/2019 4:54:01 PM

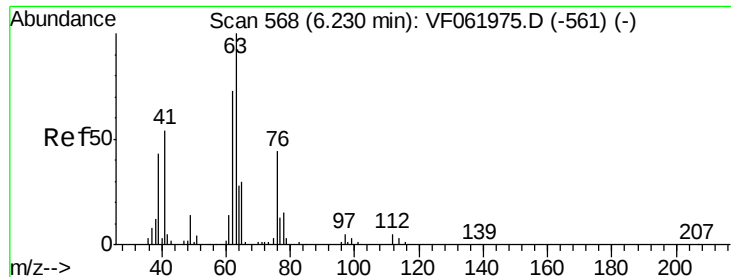


#44

Trichloroethene
 Concen: 22.621 ug/l
 RT: 5.47 min Scan# 491
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.8	0.0	181.4





#45

1,2-Dichloropropane

Concen: 21.295 ug/l

RT: 6.20 min Scan# 565

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 63 Resp: 48986

Ion Ratio Lower Upper

63 100

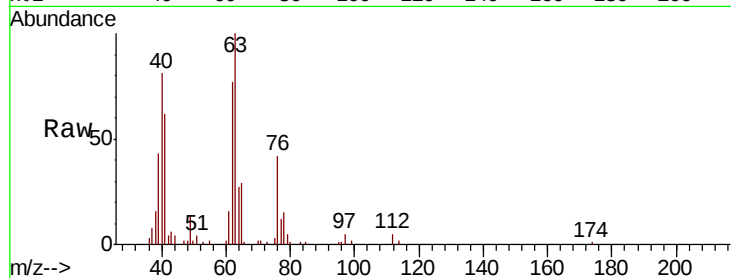
65 29.2 23.7 35.5

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

20000

15000

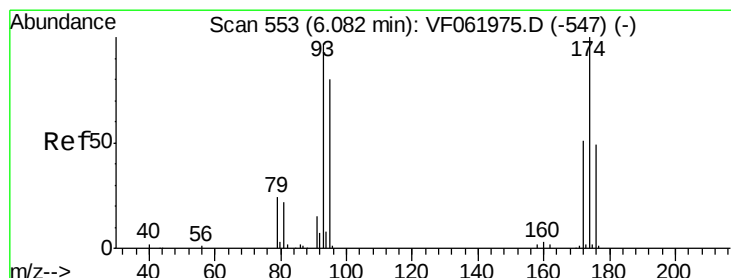
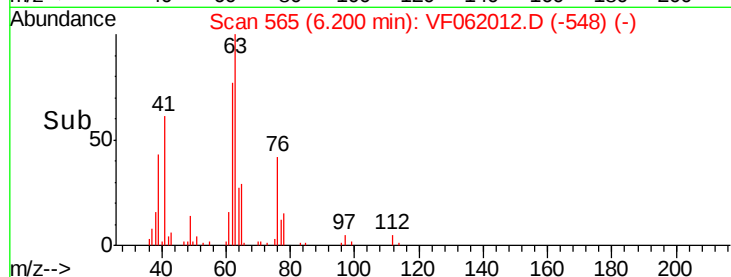
10000

5000

0

6.10 6.20 6.30 6.40

Time-->



#46

Dibromomethane

Concen: 22.120 ug/l

RT: 6.05 min Scan# 550

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

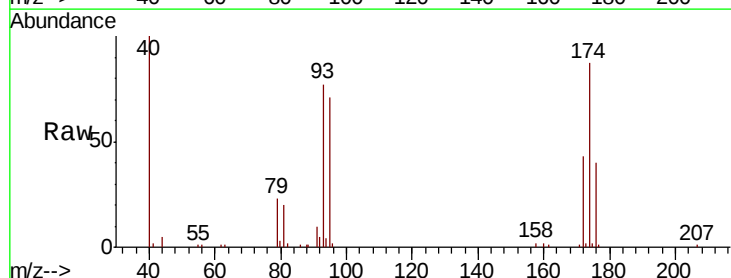
Tgt Ion: 93 Resp: 30269

Ion Ratio Lower Upper

93 100

95 91.7 65.7 98.5

174 113.2 82.2 123.4



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

15000

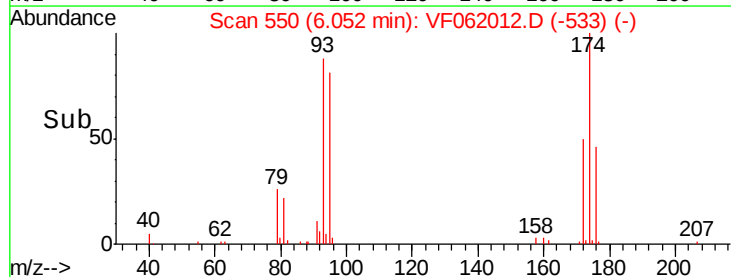
10000

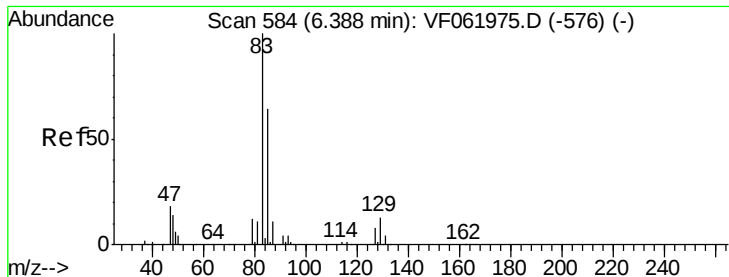
5000

0

6.00 6.10 6.20

Time-->





#47

Bromodichloromethane

Concen: 21.592 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

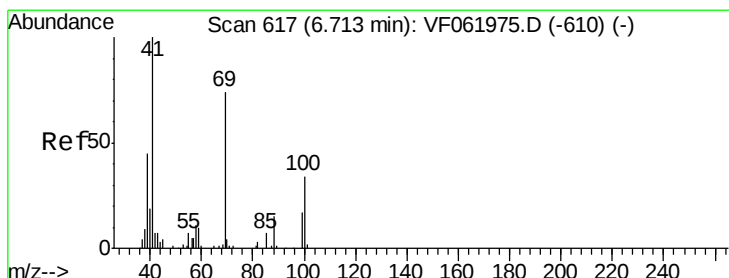
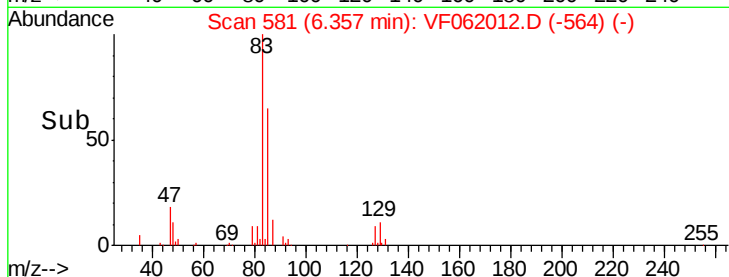
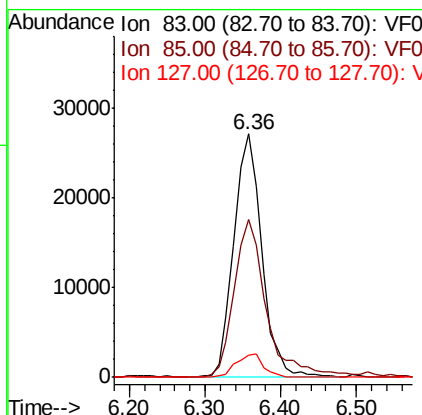
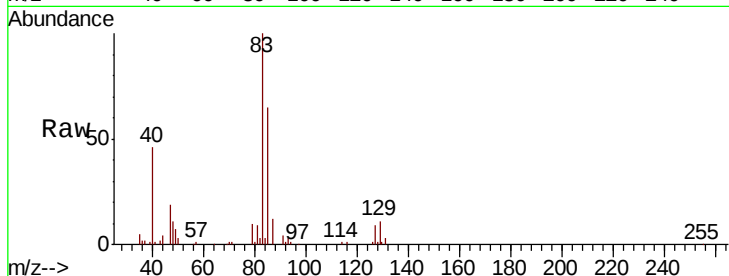
ClientSampleId :

VF0319SBS01

Tot Ion:	83	Resp:	69657
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.4	77.2
127	9.2	6.5	9.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.186 ug/l

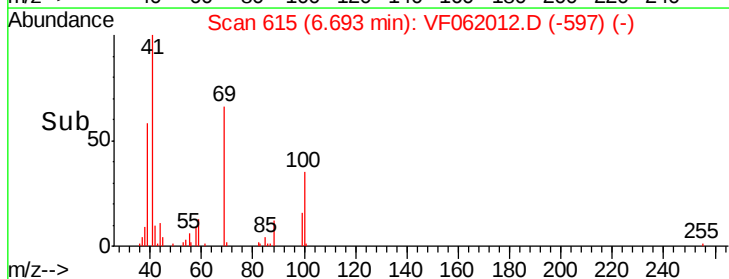
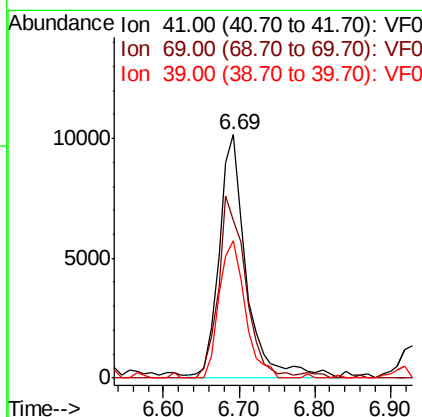
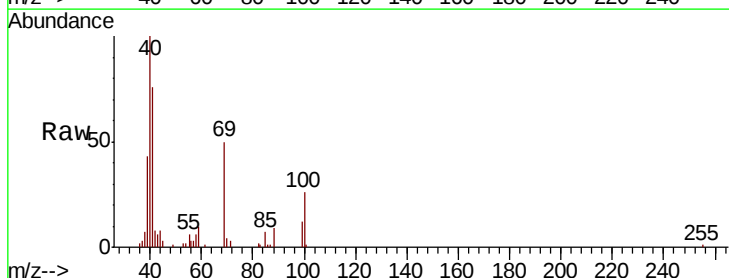
RT: 6.69 min Scan# 615

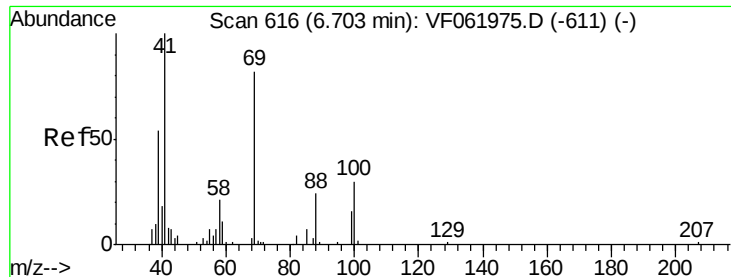
Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	41	Resp:	25424
Ion Ratio	Lower	Upper	
41	100		
69	64.9	59.0	88.6
39	56.6	35.6	53.4#





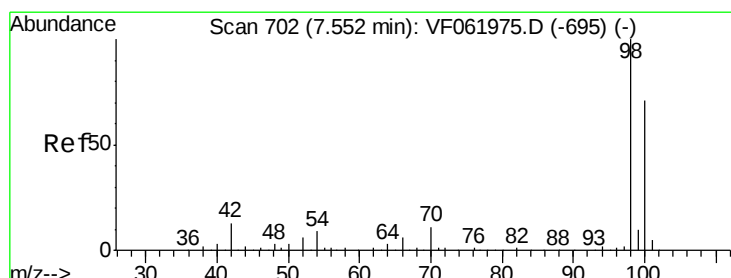
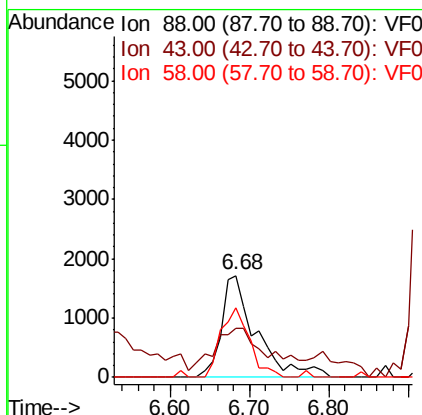
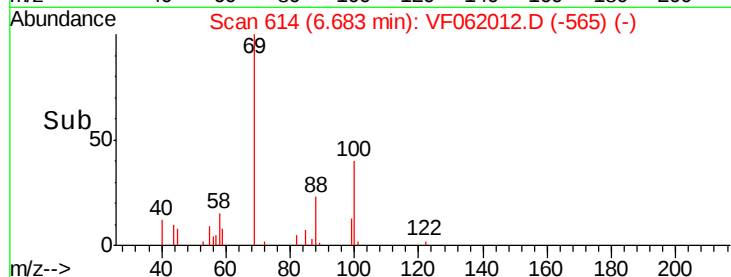
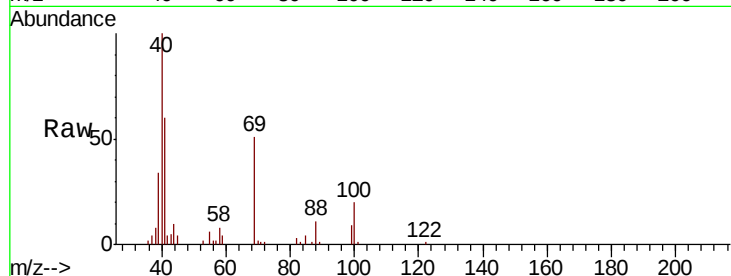
#49
1,4-Dioxane
Concen: 463.983 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	48.0	31.2	46.8#
58	68.2	69.9	104.9#

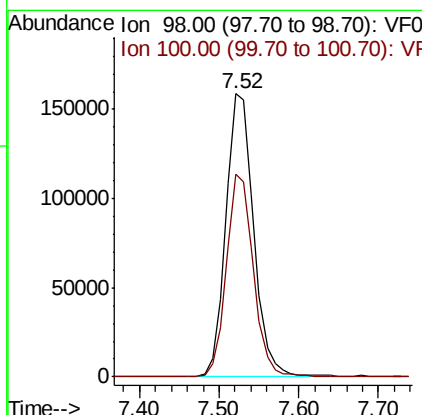
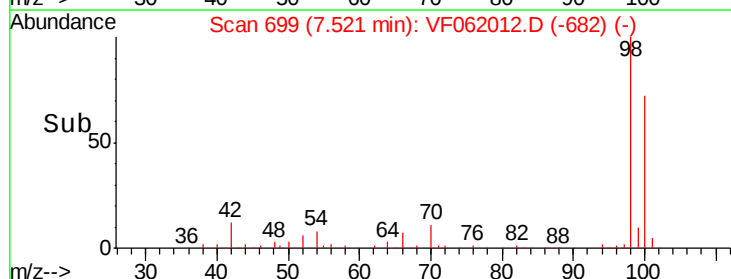
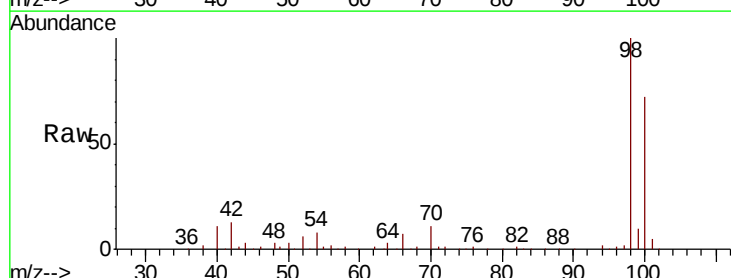
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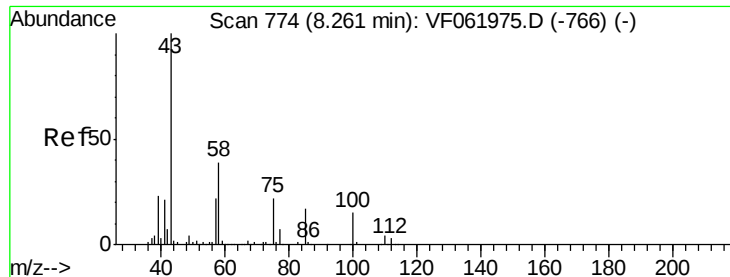
MMDadoda
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#50
Toluene-d8
Concen: 48.960 ug/l
RT: 7.52 min Scan# 699
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.8	56.8	85.2





#51

4-Methyl-2-Pentanone

Concen: 107.662 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 43 Resp: 148987

Ion Ratio Lower Upper

43 100

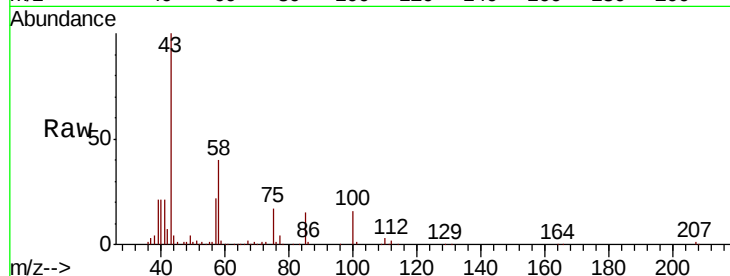
58 40.2 31.1 46.7

Manual Integrations

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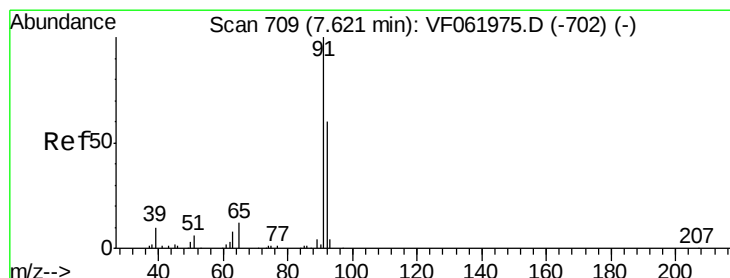
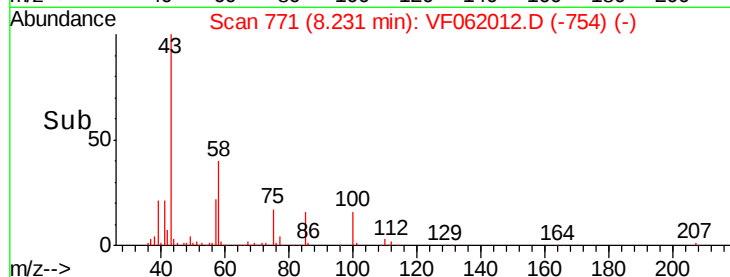
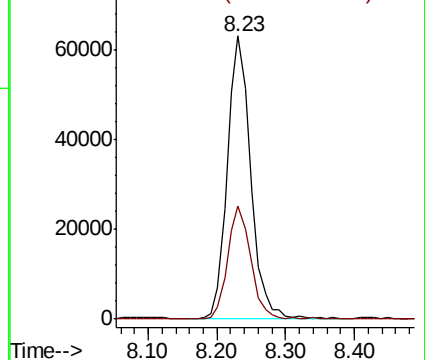
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 18.831 ug/l

RT: 7.59 min Scan# 706

Delta R.T. -0.03 min

Lab File: VF062012.D

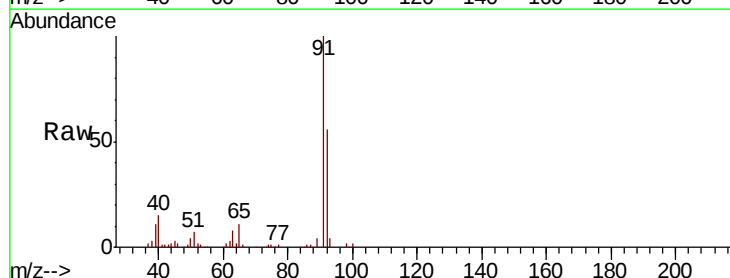
Acq: 19 Mar 2019 12:21

Tgt Ion: 92 Resp: 111833

Ion Ratio Lower Upper

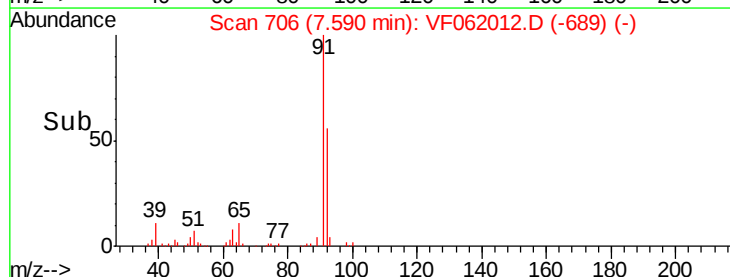
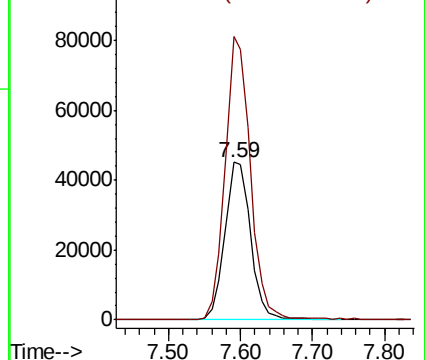
92 100

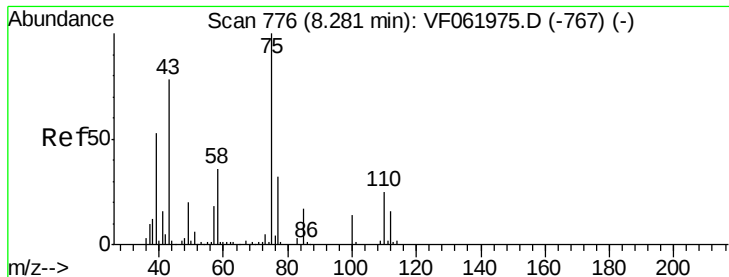
91 179.4 134.0 201.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.997 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 75 Resp: 57188

Ion Ratio Lower Upper

75 100

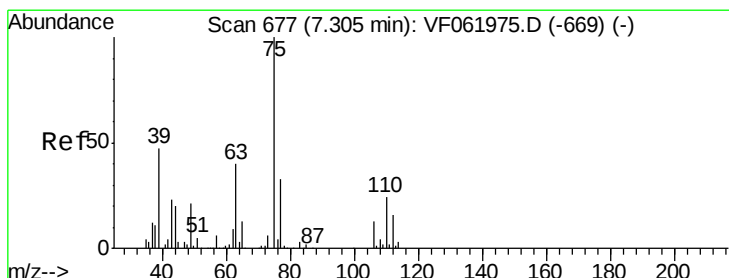
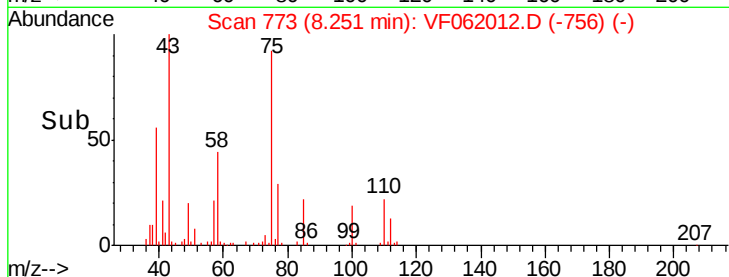
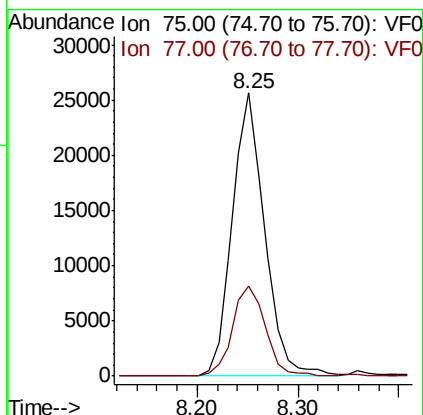
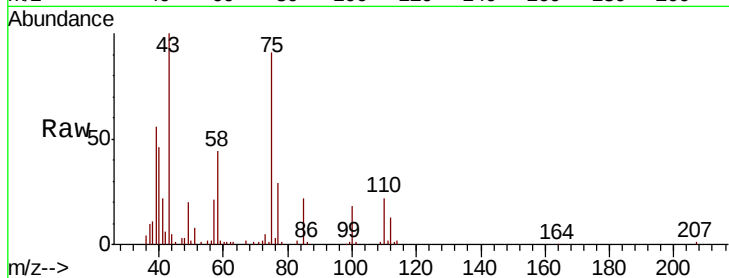
77 31.6 25.5 38.3

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.972 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

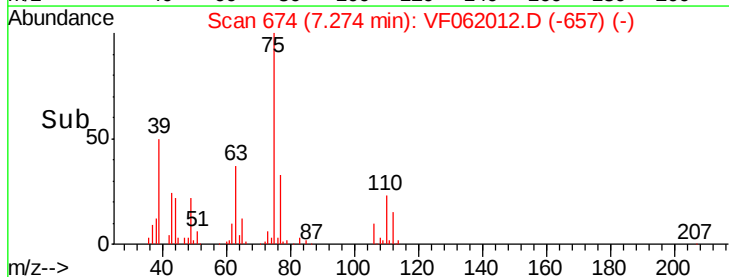
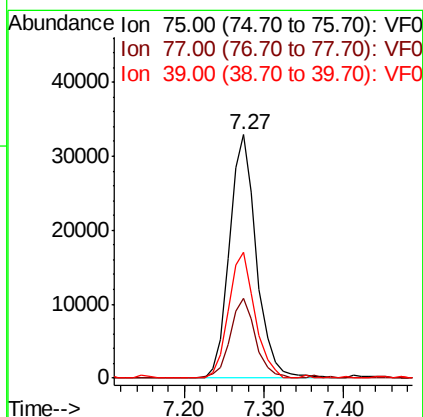
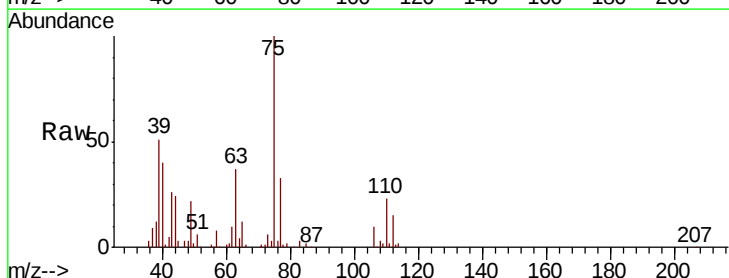
Tgt Ion: 75 Resp: 78085

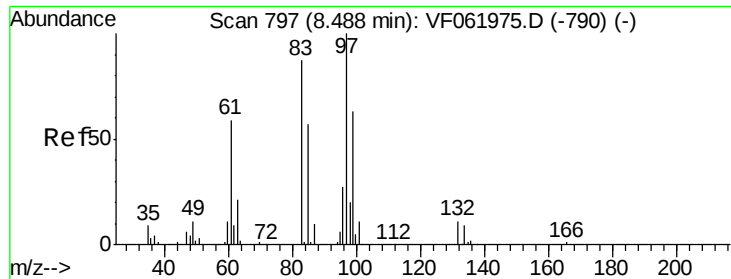
Ion Ratio Lower Upper

75 100

77 32.5 26.4 39.6

39 51.4 38.0 57.0





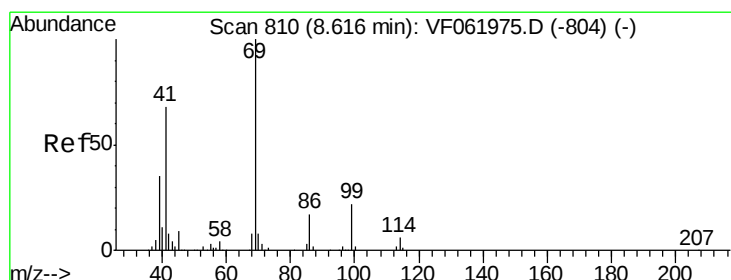
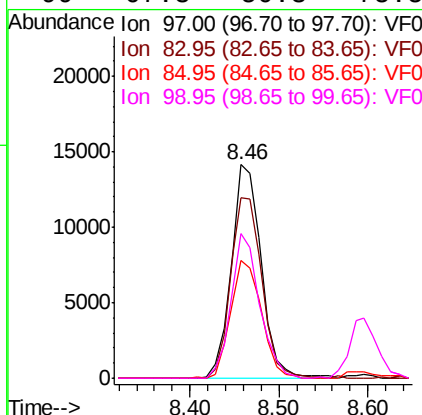
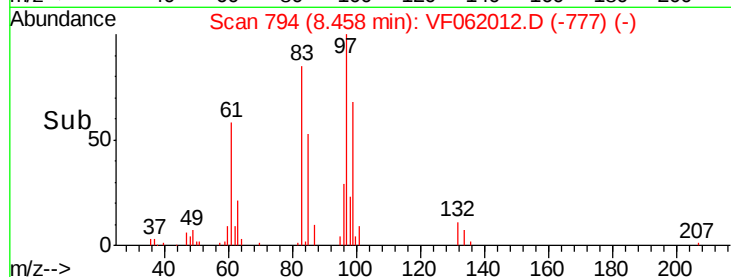
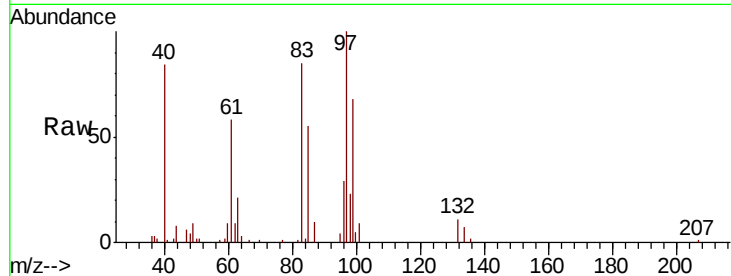
#55
 1,1,2-Trichloroethane
 Concen: 20.097 ug/l
 RT: 8.46 min Scan# 794
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.6	69.7	104.5
85	55.2	45.8	68.6
99	67.8	50.3	75.5

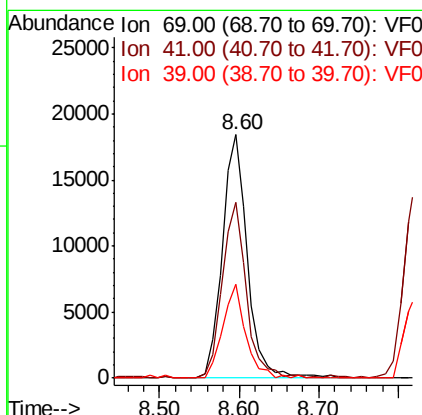
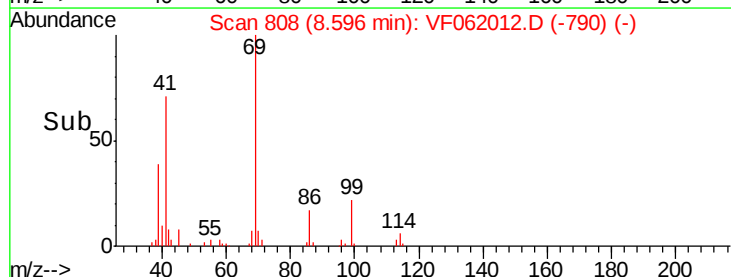
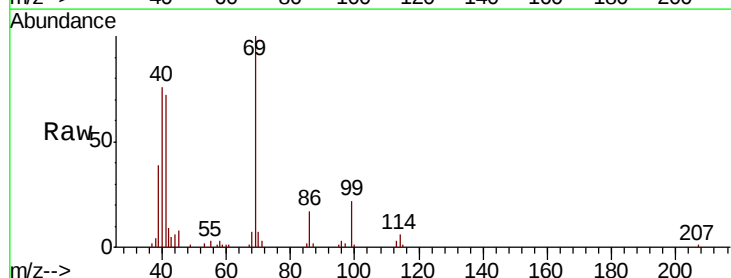
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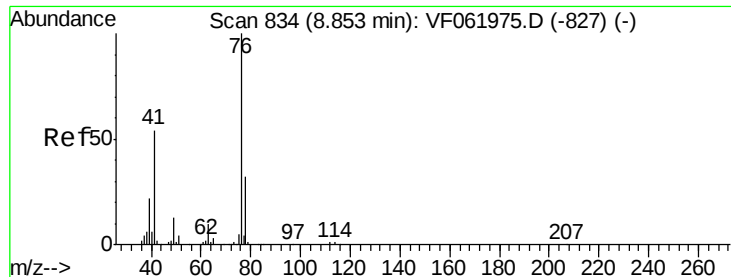
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#56
 Ethyl methacrylate
 Concen: 21.680 ug/l
 RT: 8.60 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.0	54.7	82.1
39	38.6	27.9	41.9





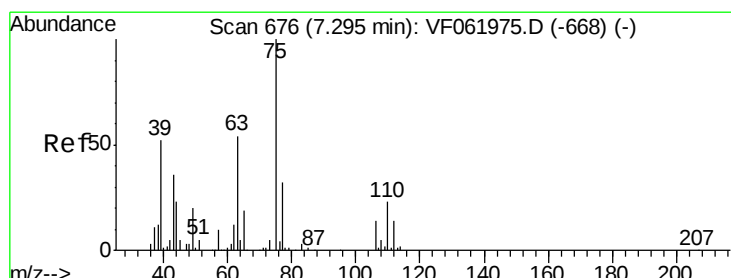
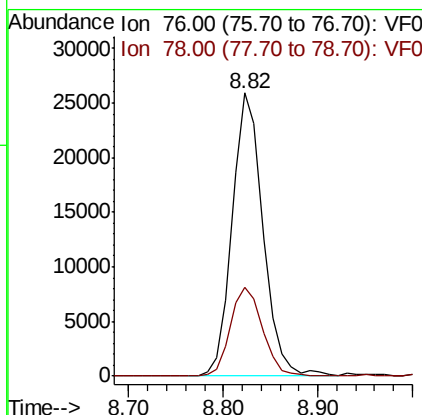
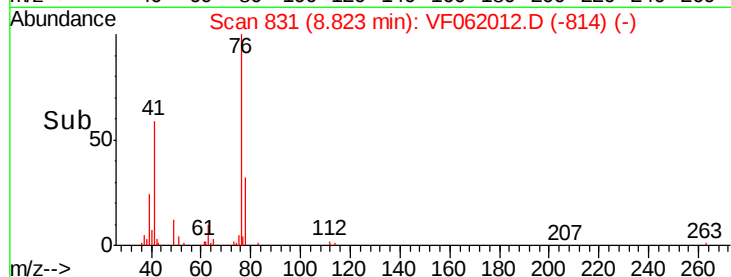
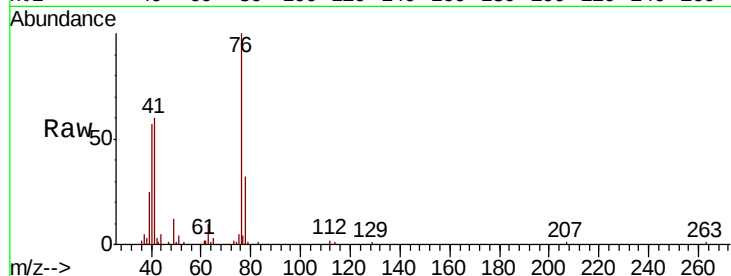
#57
 1,3-Dichloropropane
 Concen: 21.136 ug/l
 RT: 8.82 min Scan# 831
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion: 76 Resp: 58439
 Ion Ratio Lower Upper
 76 100
 78 31.5 25.4 38.2

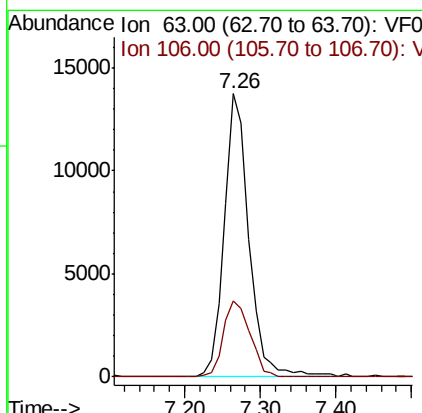
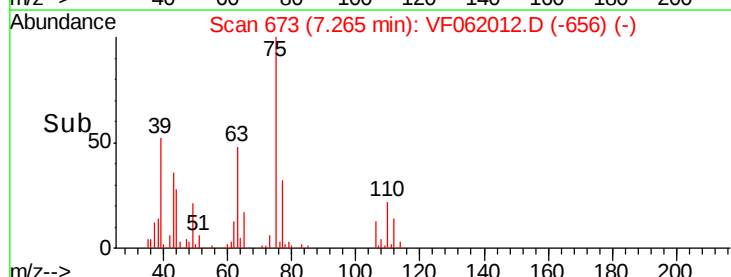
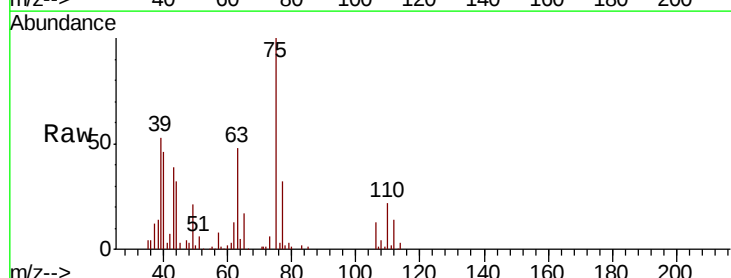
Manual Integrations
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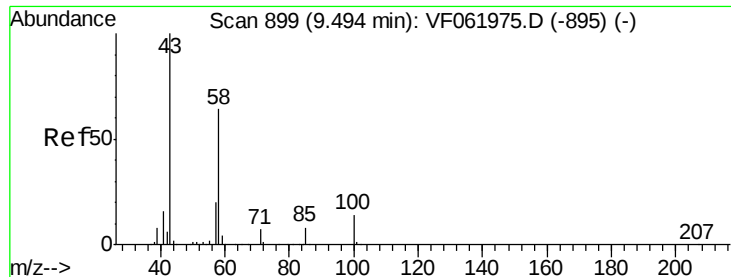
MMDadoda
 3/22/2019 4:54:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.505 ug/l
 RT: 7.26 min Scan# 673
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion: 63 Resp: 30888
 Ion Ratio Lower Upper
 63 100
 106 26.9 20.9 31.3





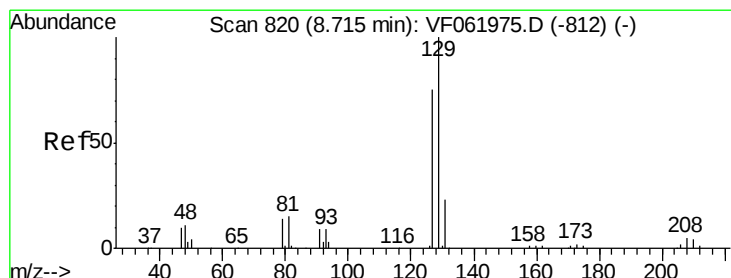
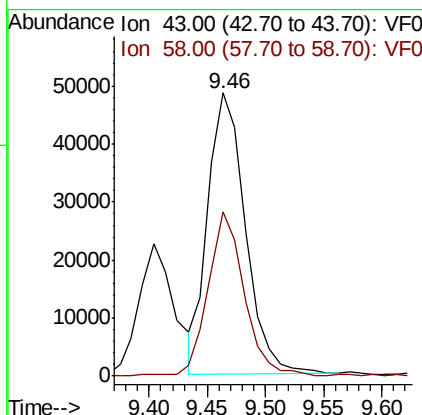
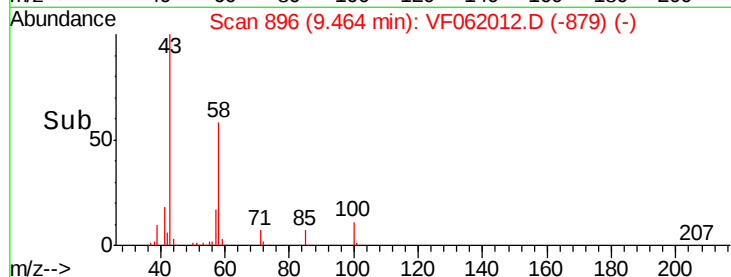
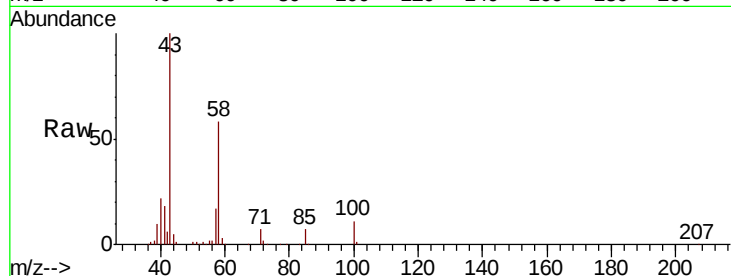
#59
2-Hexanone
Concen: 108.505 ug/l
RT: 9.46 min Scan# 896
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.2	28.4	85.2

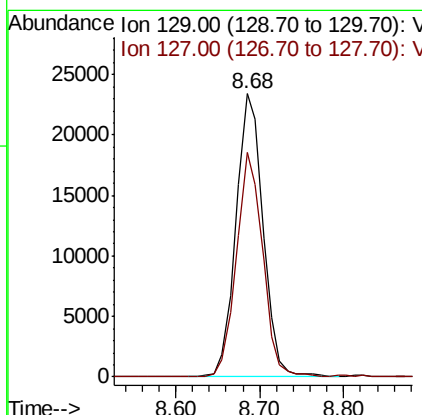
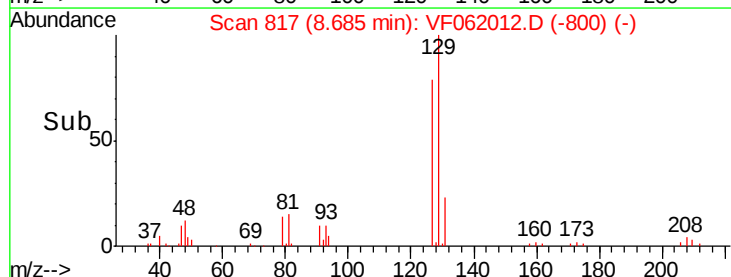
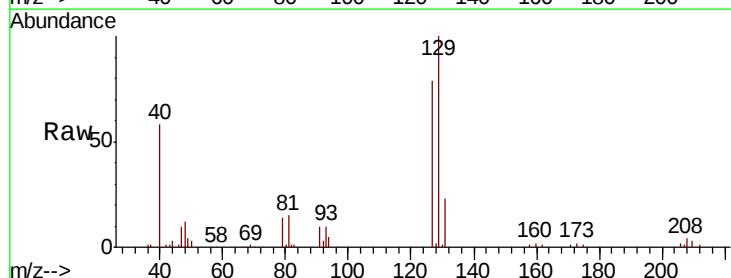
Manual Integrations
APPROVED

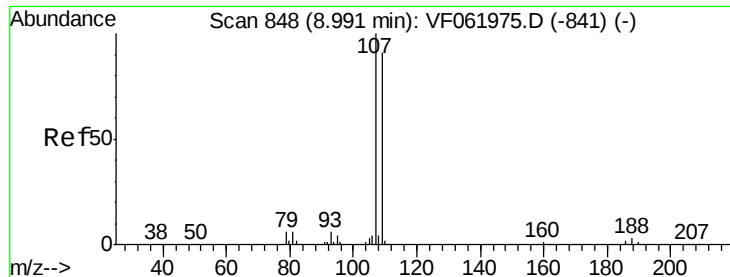
MMDadoda
3/22/2019 4:54:01 PM



#60
Dibromochloromethane
Concen: 22.820 ug/l
RT: 8.68 min Scan# 817
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	37.3	111.8





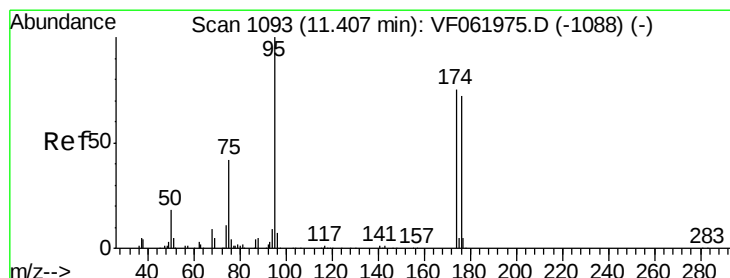
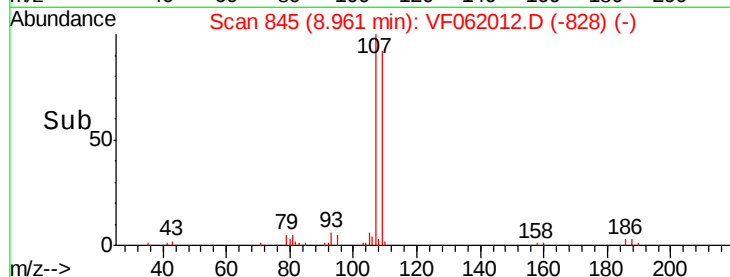
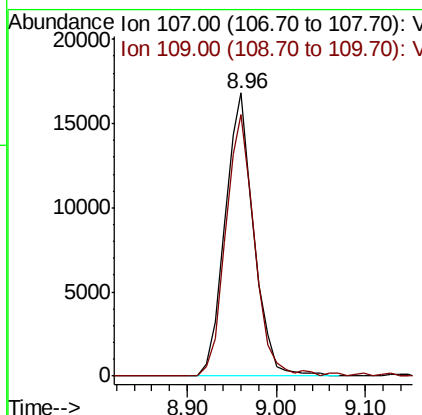
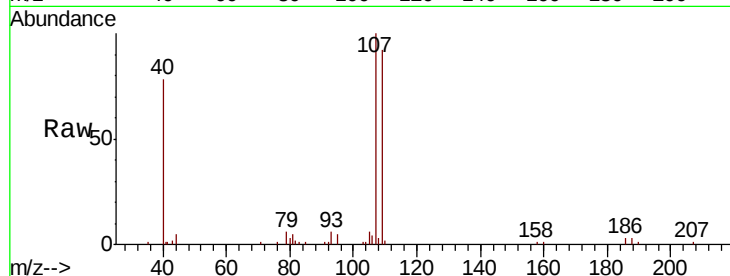
#61
 1,2-Dibromoethane
 Concen: 21.436 ug/l
 RT: 8.96 min Scan# 845
 Delta R.T. -0.03 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.3	72.8	109.2

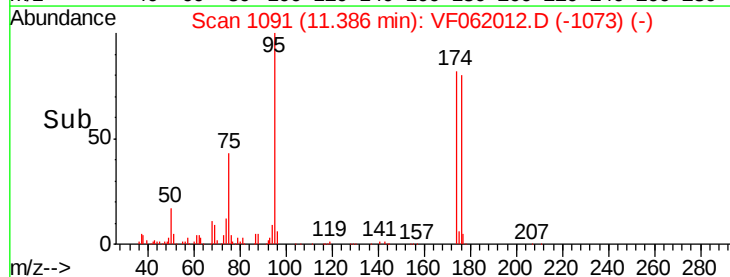
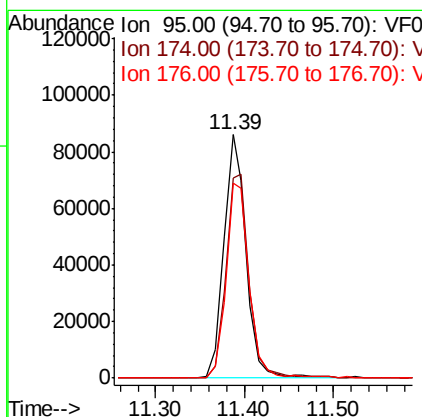
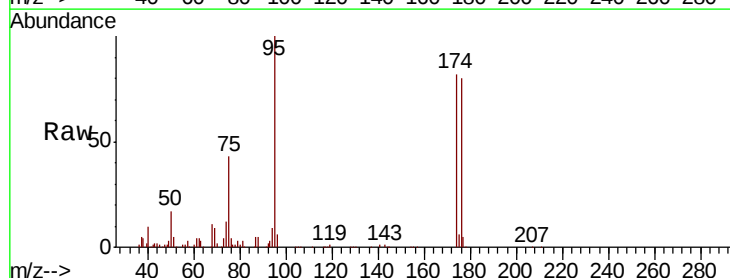
Manual Integrations
 APPROVED

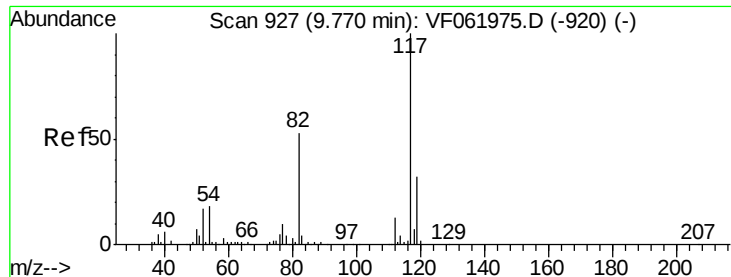
MMDadoda
 3/22/2019 4:54:01 PM



#62
 4-Bromofluorobenzene
 Concen: 47.977 ug/l
 RT: 11.39 min Scan# 1091
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	149.4
176	80.2	0.0	143.4





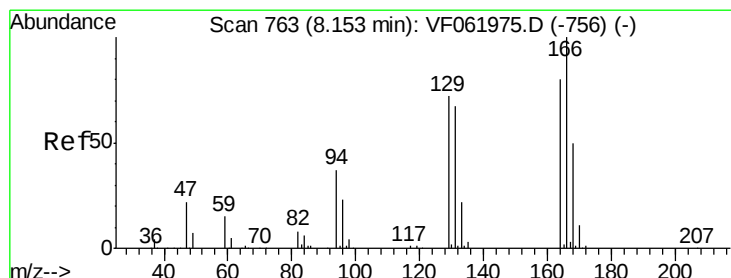
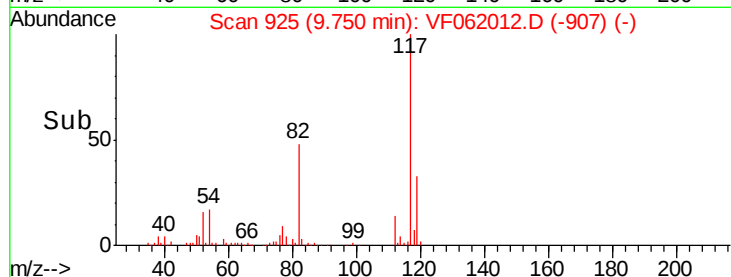
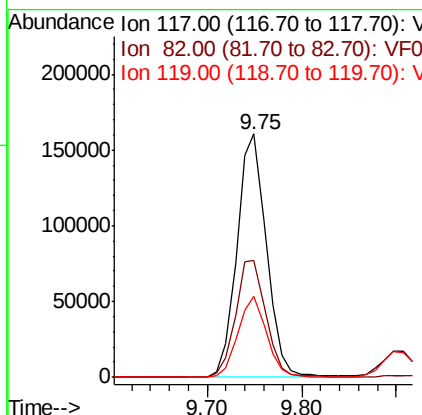
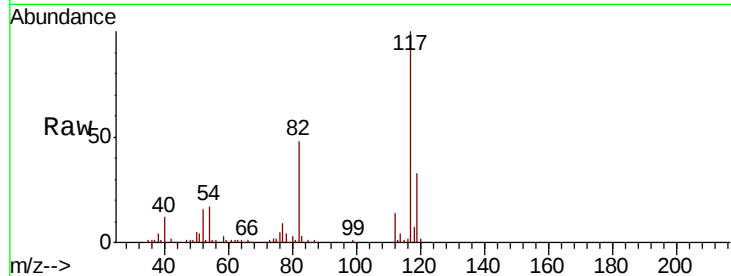
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.1	42.5	63.7
119	33.4	25.4	38.0

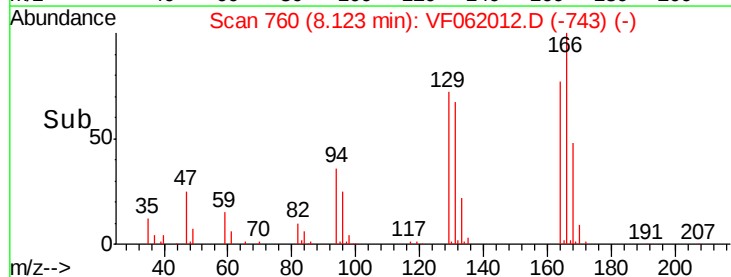
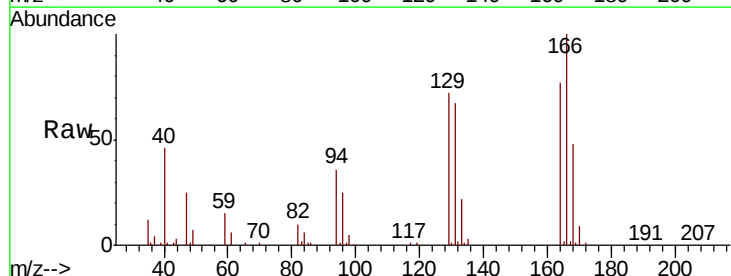
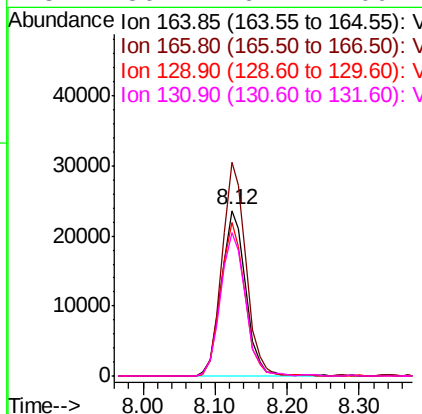
Manual Integrations
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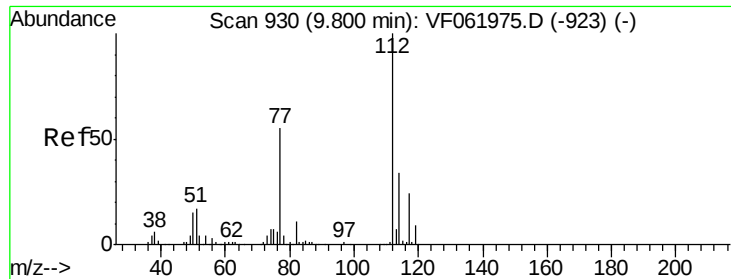
MMDadoda
3/22/2019 4:54:01 PM



#64
Tetrachloroethene
Concen: 21.964 ug/l
RT: 8.12 min Scan# 760
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.0	150.0
129	92.7	72.4	108.6
131	86.7	67.1	100.7





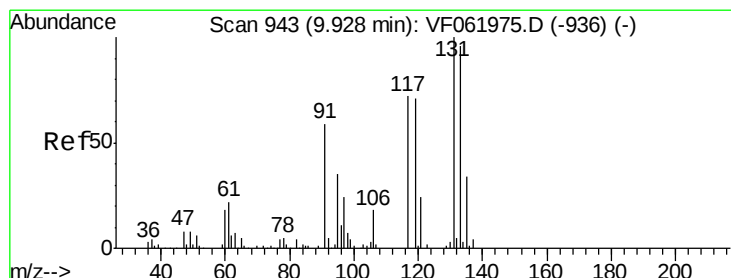
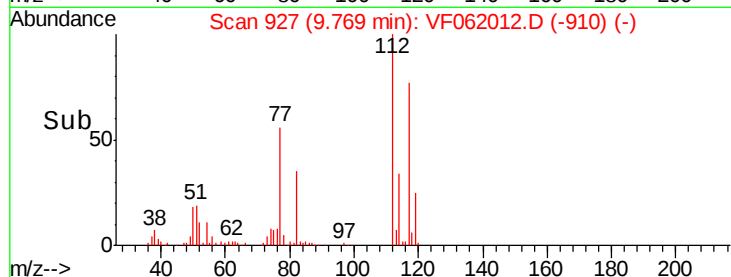
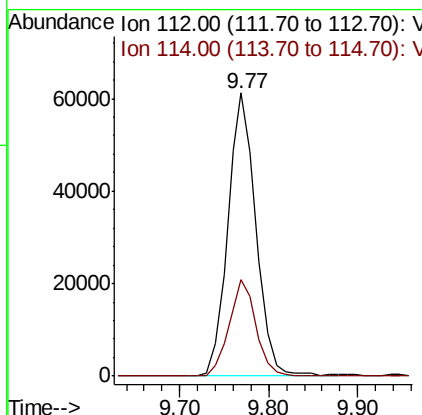
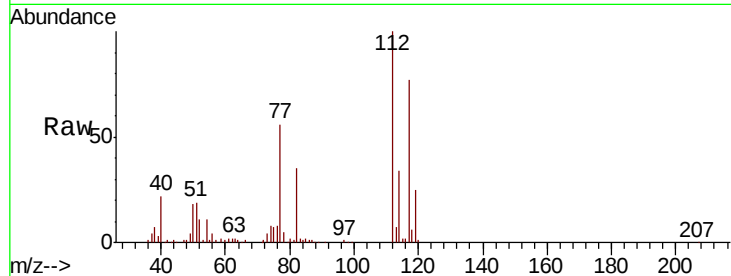
#65
Chlorobenzene
Concen: 20.991 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	135175		
114	34.0	26.9	40.3	

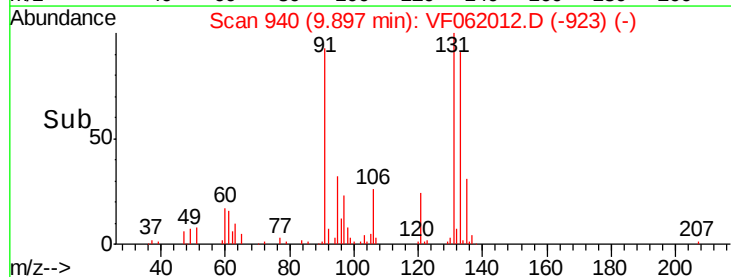
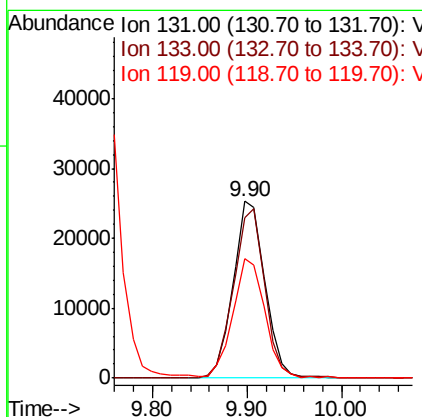
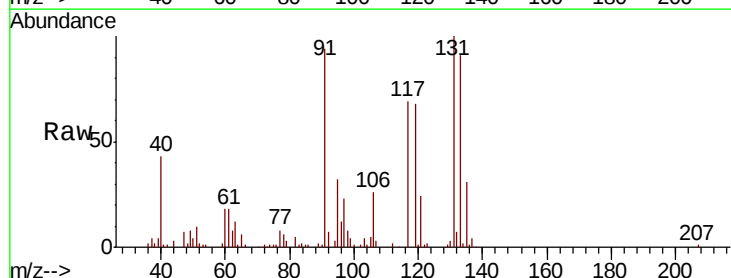
Manual Integrations
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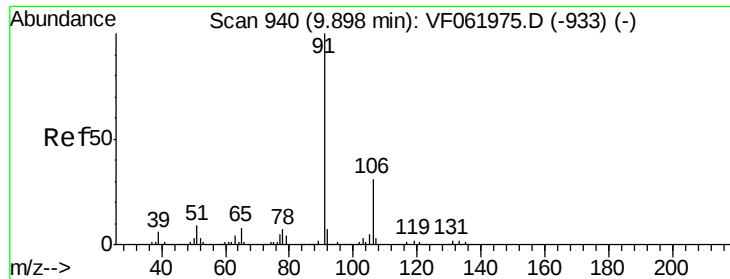
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 23.488 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	58628		
133	91.2	48.0	144.2	
119	67.9	35.9	107.7	





#67

Ethyl Benzene

Concen: 22.330 ug/l

RT: 9.87 min Scan# 937

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion: 91 Resp: 246214

Ion Ratio Lower Upper

91 100

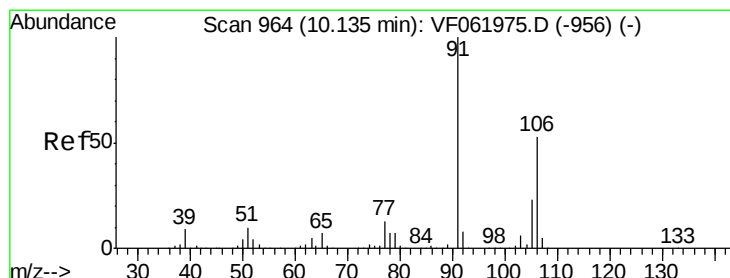
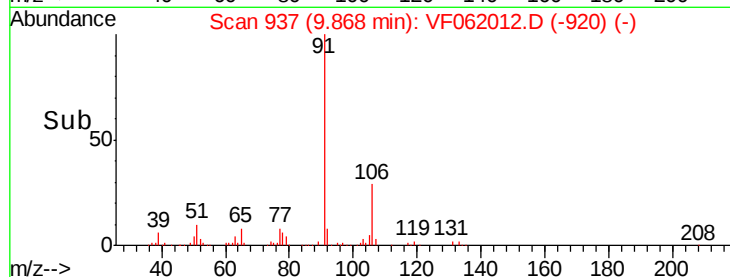
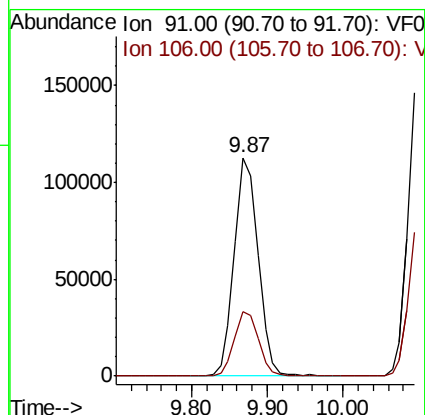
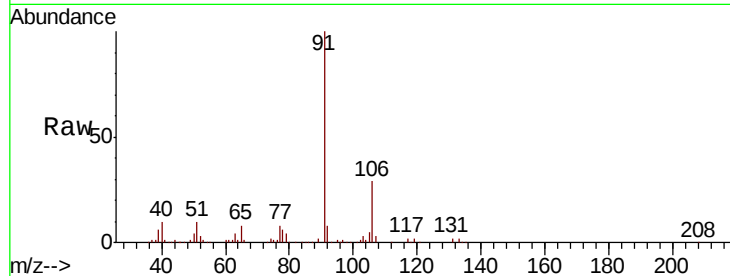
106 29.3 24.4 36.6

Manual Integrations

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#68

m/p-Xylenes

Concen: 44.327 ug/l

RT: 10.10 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF062012.D

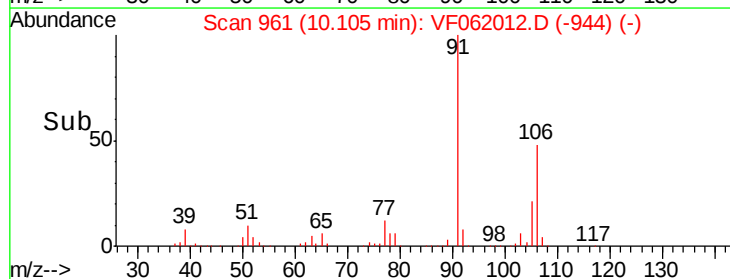
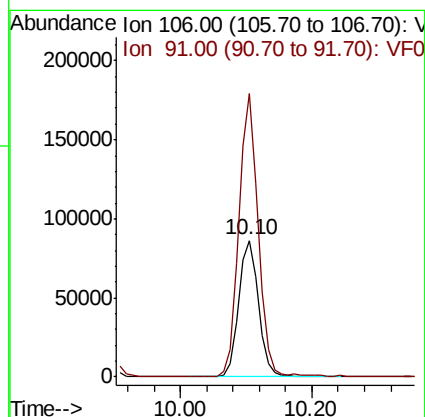
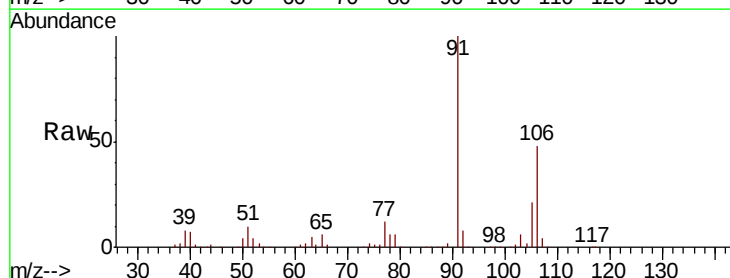
Acq: 19 Mar 2019 12:21

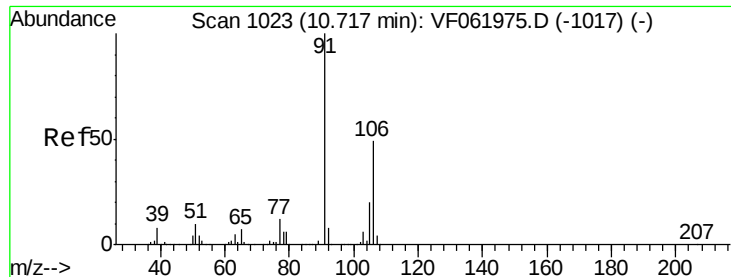
Tgt Ion:106 Resp: 183823

Ion Ratio Lower Upper

106 100

91 207.0 151.9 227.9





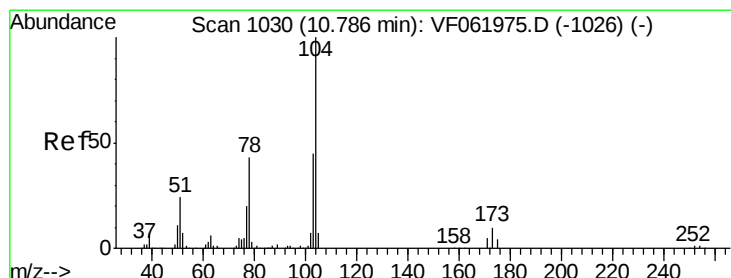
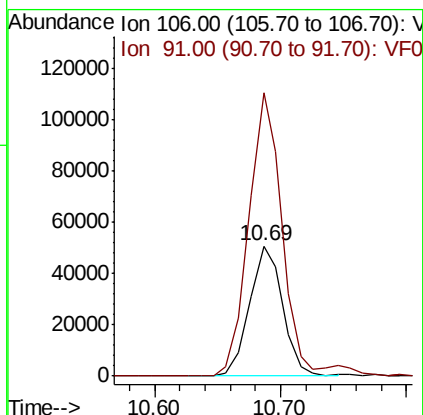
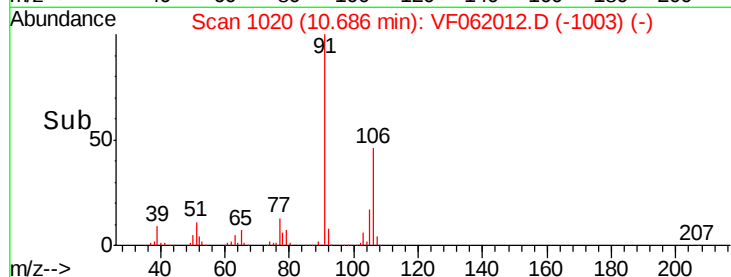
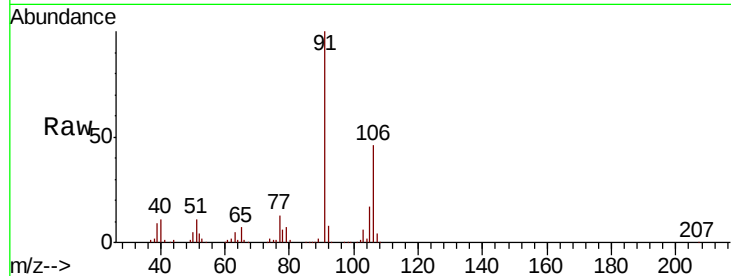
#69
o-Xylene
Concen: 20.989 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion:106 Resp: 93136
Ion Ratio Lower Upper
106 100
91 217.7 102.3 306.8

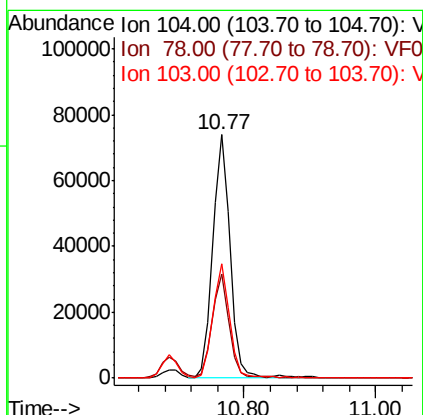
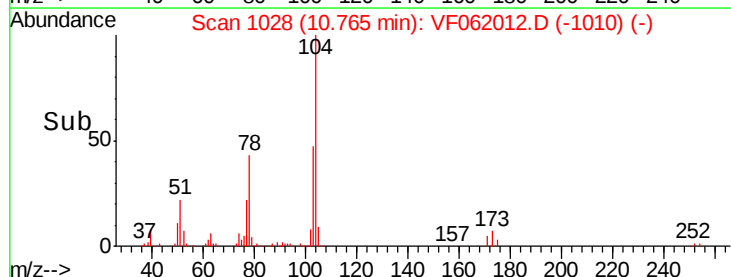
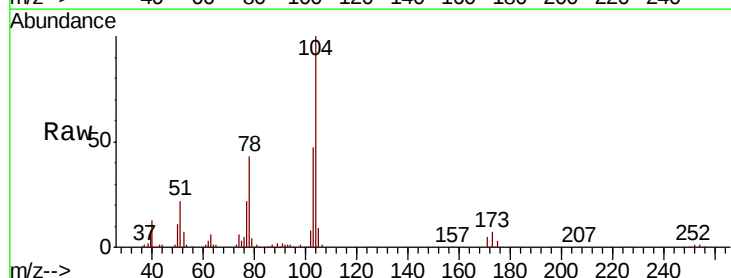
Manual Integrations
APPROVED

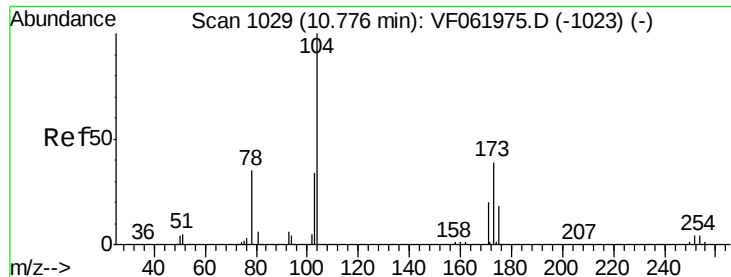
MMDadoda
3/22/2019 4:54:01 PM



#70
Styrene
Concen: 21.861 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion:104 Resp: 134392
Ion Ratio Lower Upper
104 100
78 43.0 34.7 52.1
103 46.7 36.6 54.8





#71

Bromoform

Concen: 21.413 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.03 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

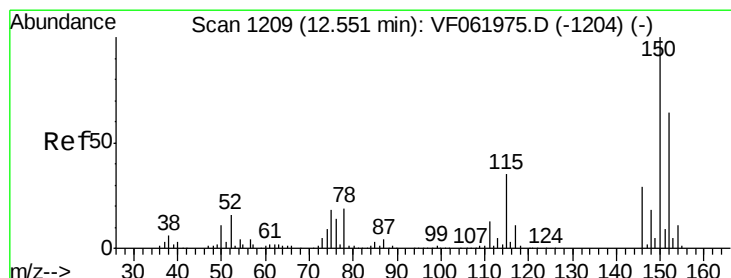
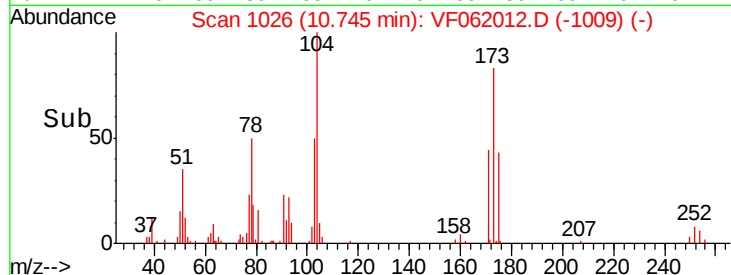
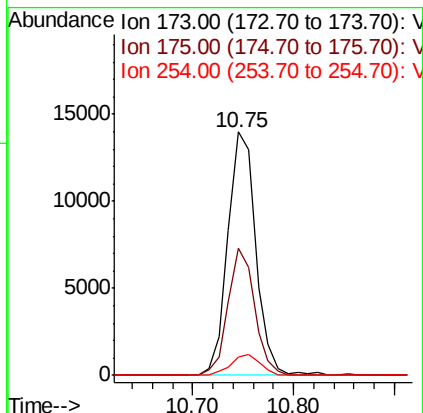
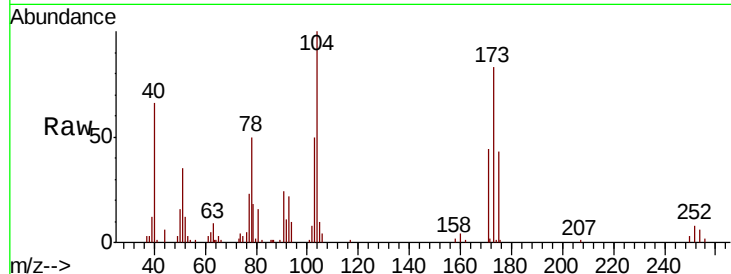
ClientSampleId :

VF0319SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.3	23.7	71.1
254	7.3	7.8	11.8

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

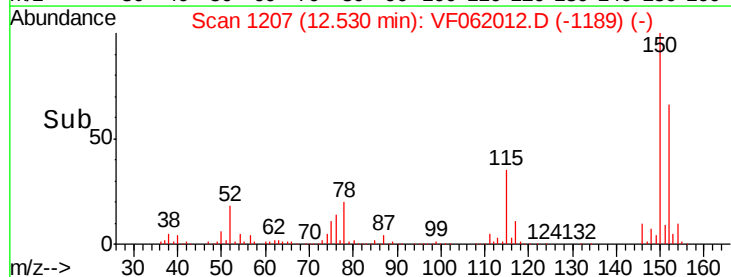
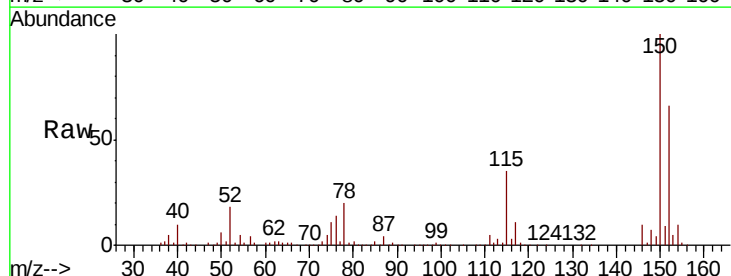
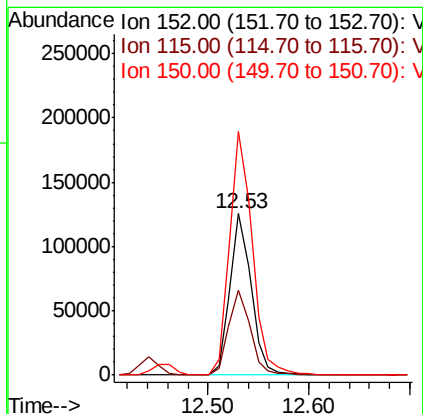
RT: 12.53 min Scan# 1207

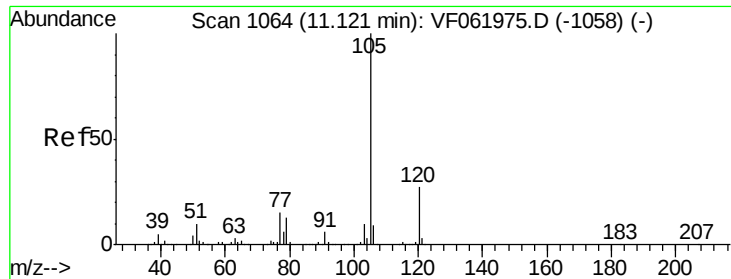
Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.9	27.3	81.9
150	151.1	0.0	316.2





#73

Isopropylbenzene

Concen: 22.705 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

ClientSampleId :

VF0319SBS01

Tot Ion:105 Resp: 291397

Ion Ratio Lower Upper

105 100

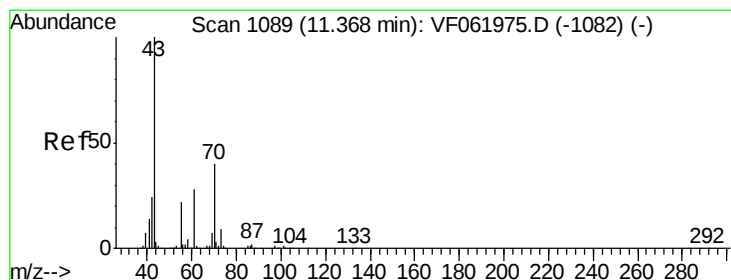
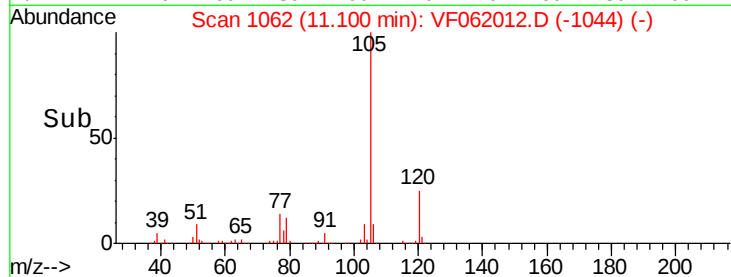
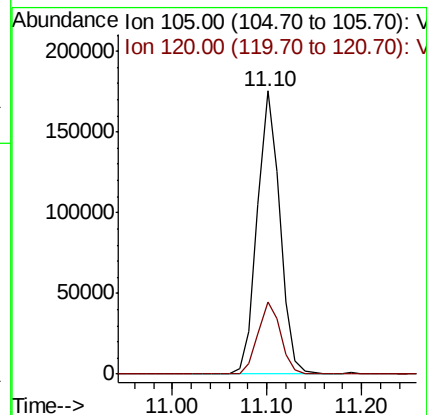
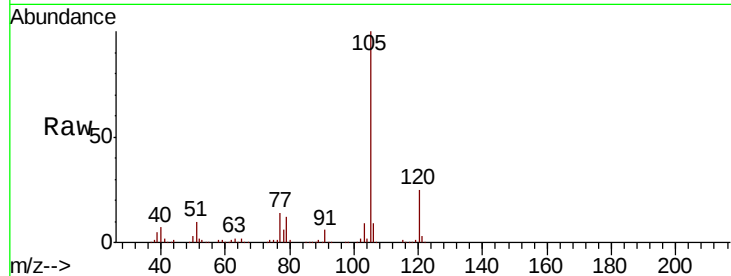
120 25.3 13.8 41.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.906 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion: 43 Resp: 61481

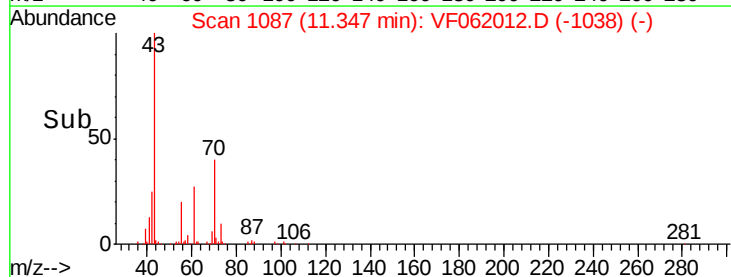
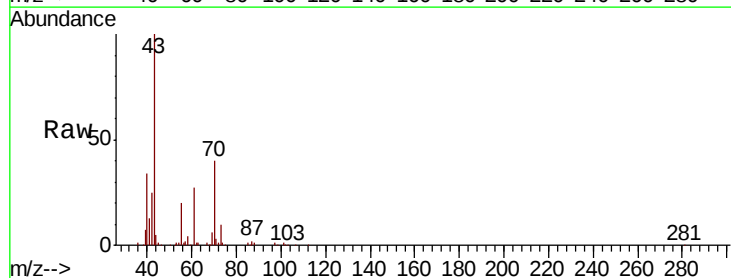
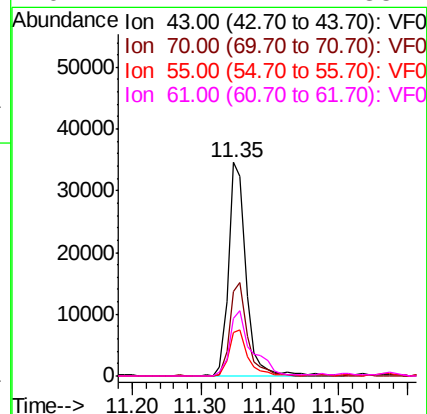
Ion Ratio Lower Upper

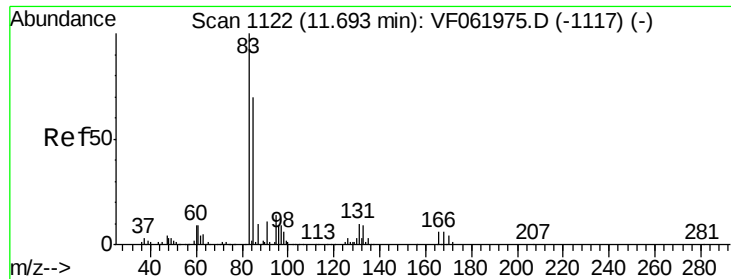
43 100

70 39.7 31.9 47.9

55 20.1 17.9 26.9

61 27.2 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.241 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

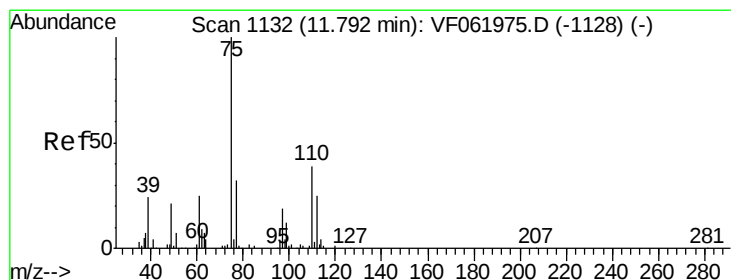
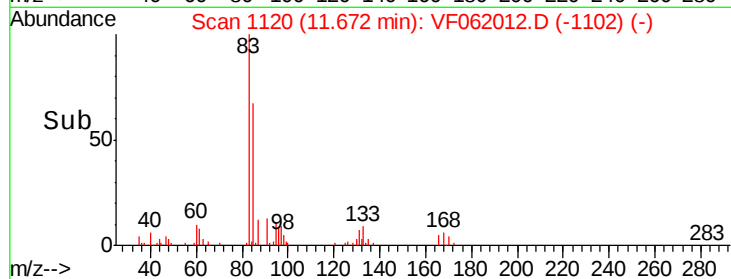
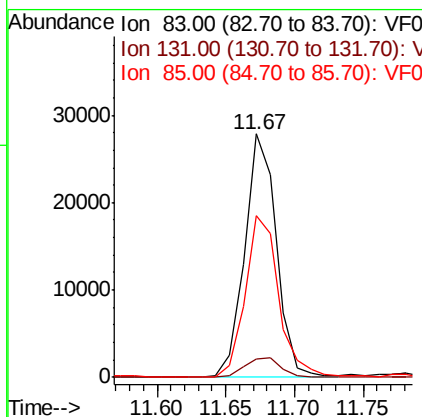
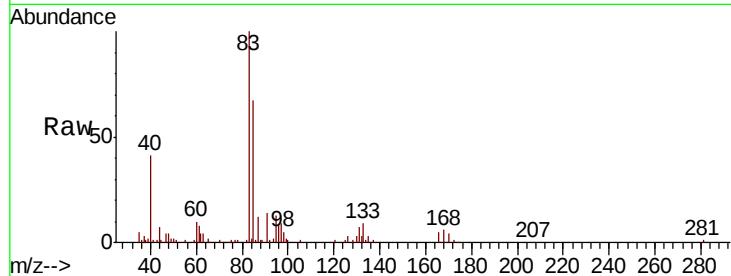
ClientSampleId :

VF0319SBS01

Tot Ion:	83	Resp:	44997
Ion	Ratio	Lower	Upper
83	100		
131	7.3	4.9	14.7
85	66.6	35.3	105.9

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#76

1,2,3-Trichloropropane

Concen: 20.354 ug/l

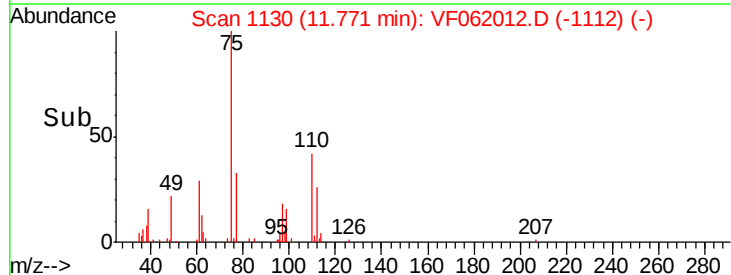
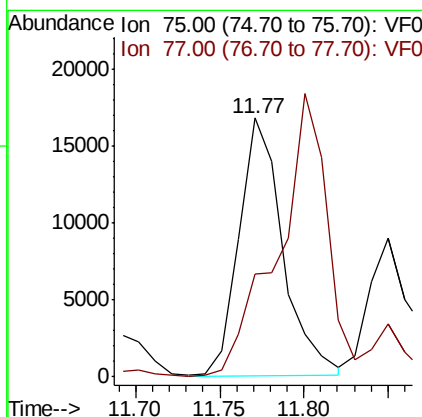
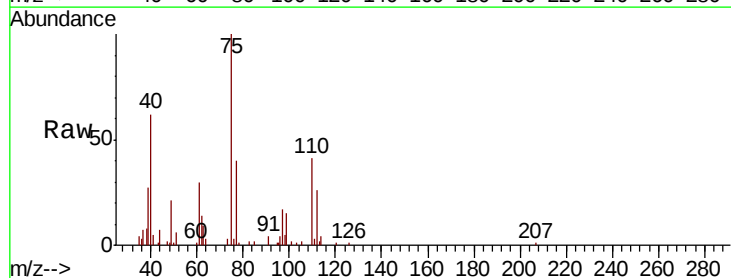
RT: 11.77 min Scan# 1130

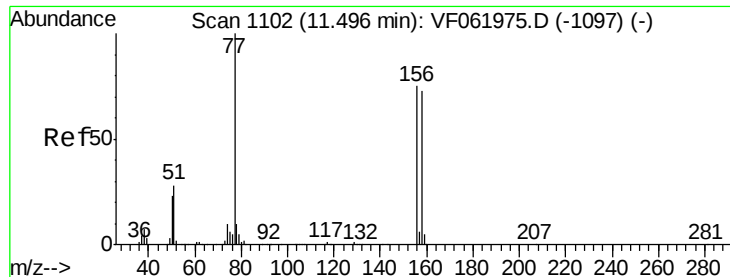
Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	75	Resp:	30151
Ion	Ratio	Lower	Upper
75	100		
77	39.6	16.4	49.2





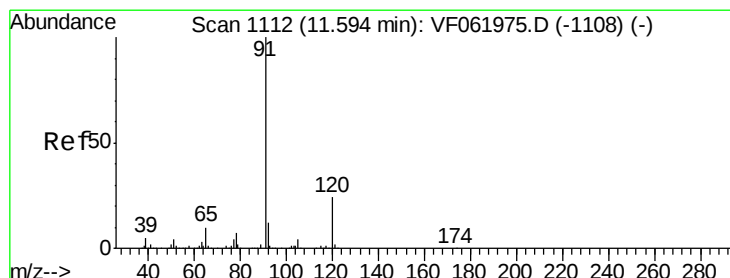
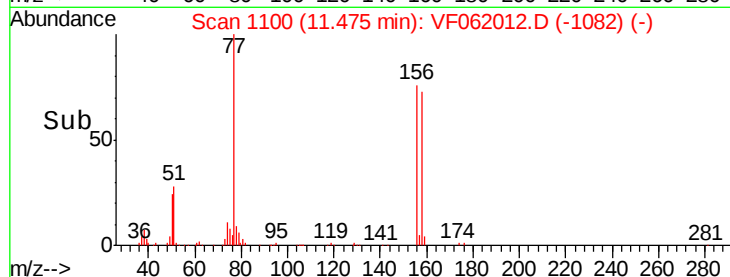
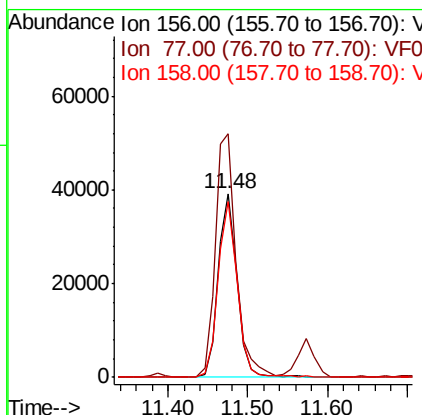
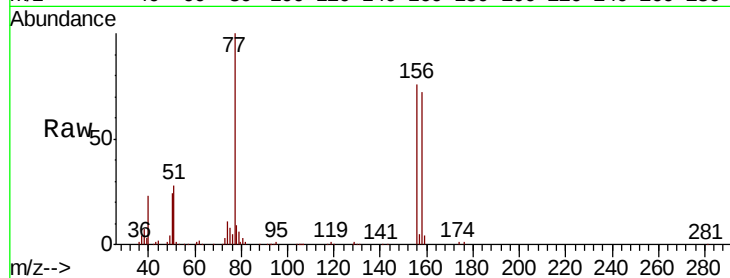
#77
Bromobenzene
Concen: 22.249 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	132.3	67.0	201.0
158	95.7	48.9	146.7

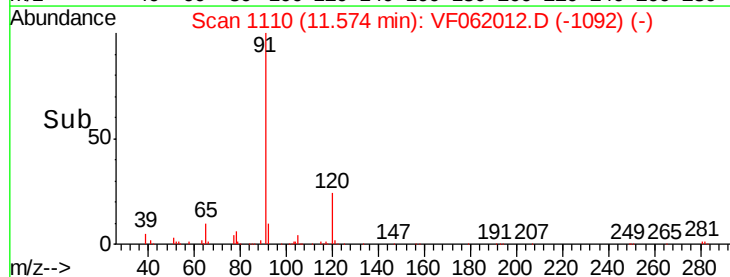
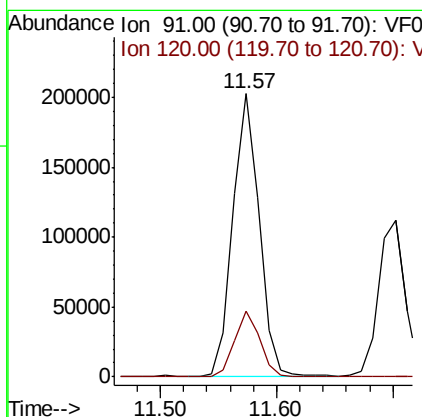
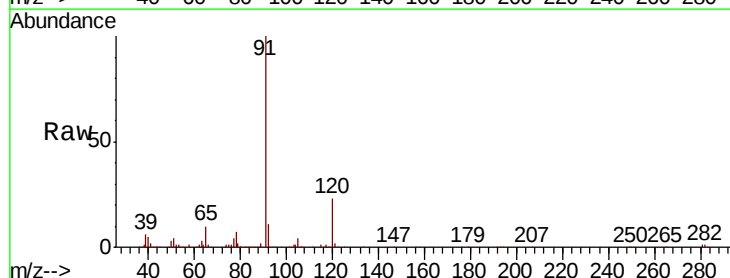
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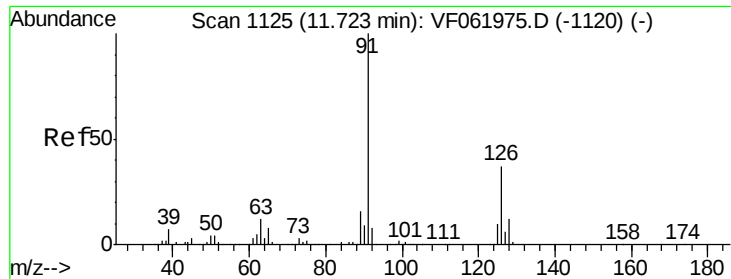
MMDadoda
3/22/2019 4:54:01 PM



#78
n-propylbenzene
Concen: 21.571 ug/l
RT: 11.57 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.8	35.3





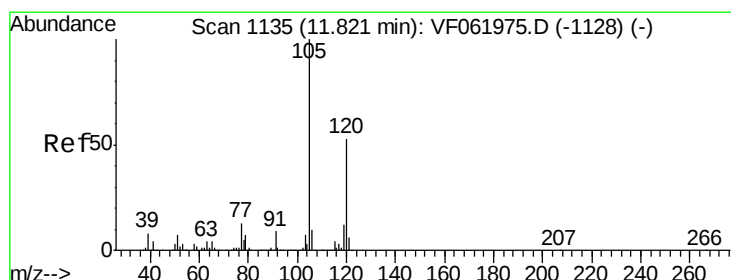
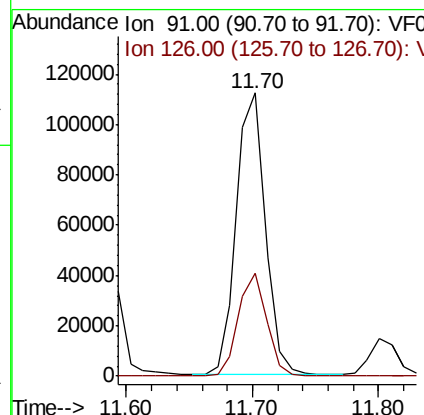
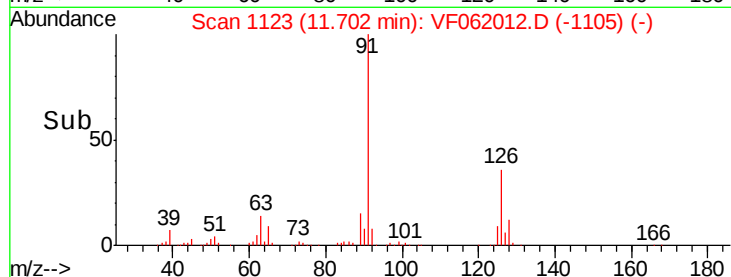
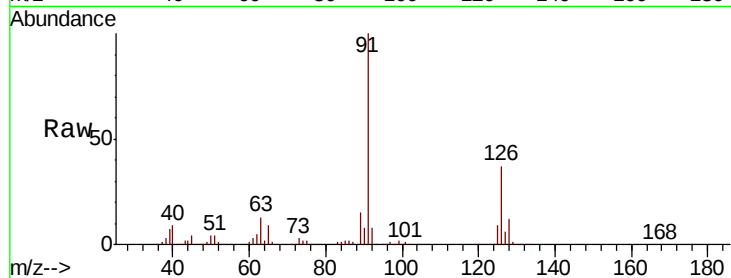
#79
 2-Chlorotoluene
 Concen: 21.292 ug/l
 RT: 11.70 min Scan# 1123
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion: 91 Resp: 177363
 Ion Ratio Lower Upper
 91 100
 126 36.5 18.4 55.2

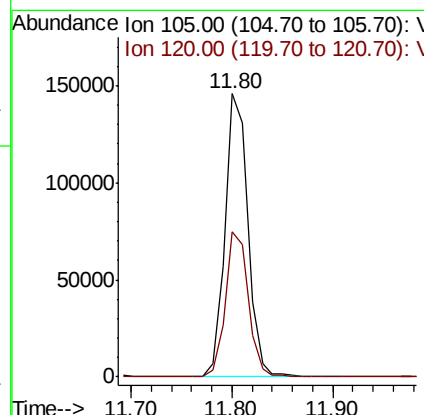
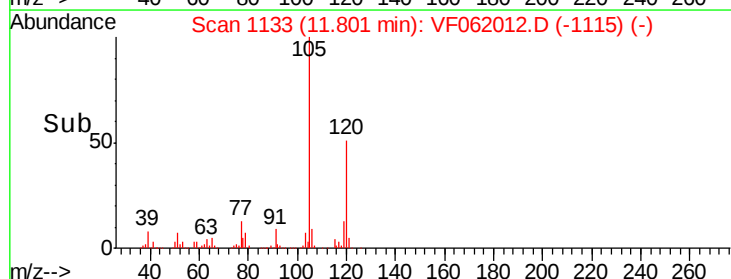
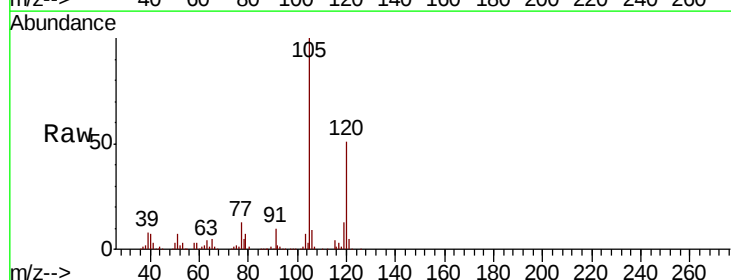
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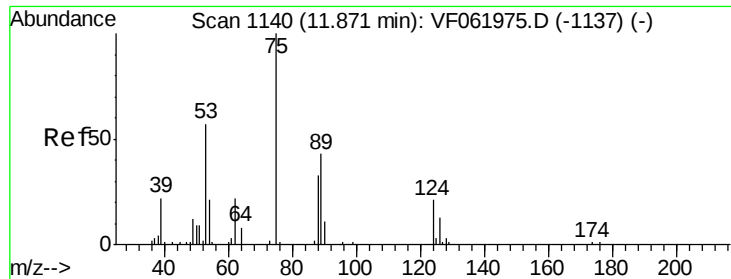
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#80
 1,3,5-Trimethylbenzene
 Concen: 22.369 ug/l
 RT: 11.80 min Scan# 1133
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion: 105 Resp: 231911
 Ion Ratio Lower Upper
 105 100
 120 51.2 26.6 79.7





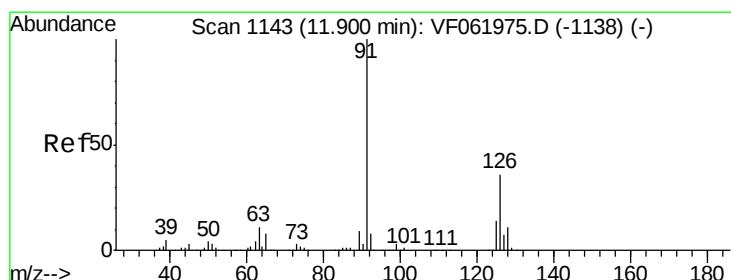
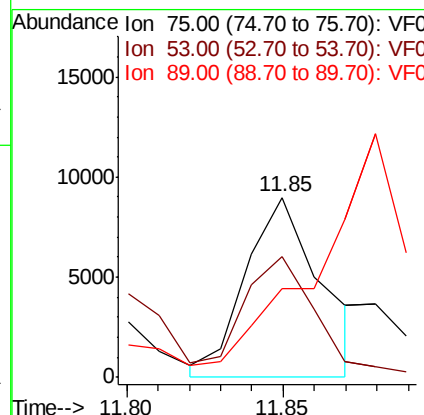
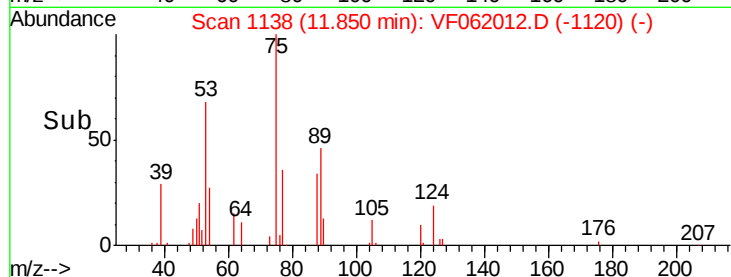
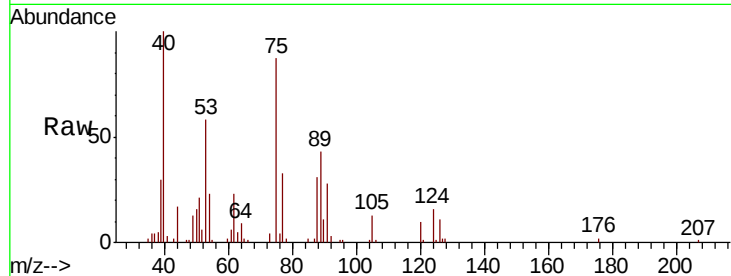
#81
trans-1,4-Dichloro-2-butene
Concen: 22.691 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	67.0	49.0	73.6
89	49.2	37.1	55.7

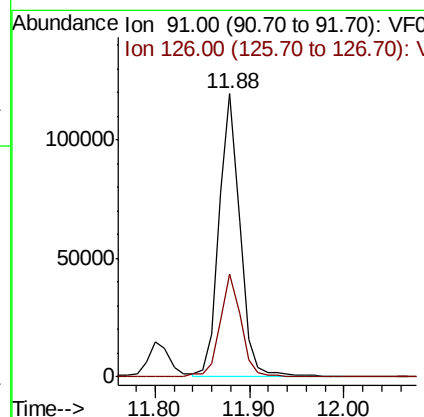
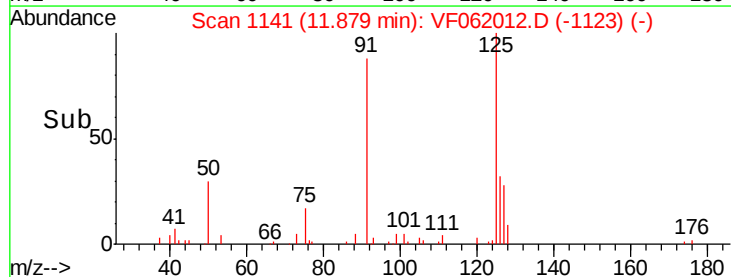
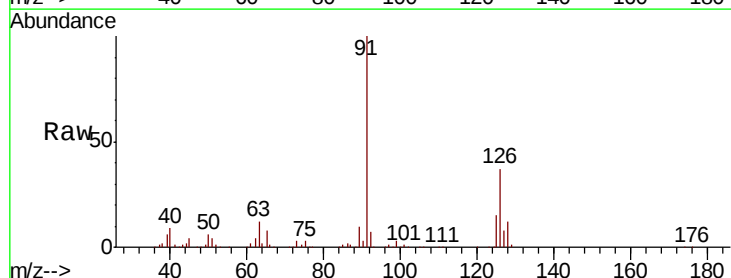
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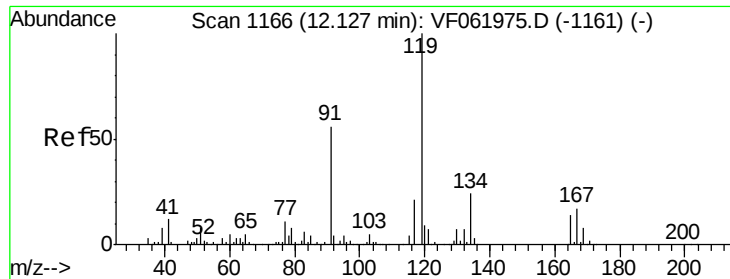
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#82
4-Chlorotoluene
Concen: 21.629 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.5	18.1	54.1





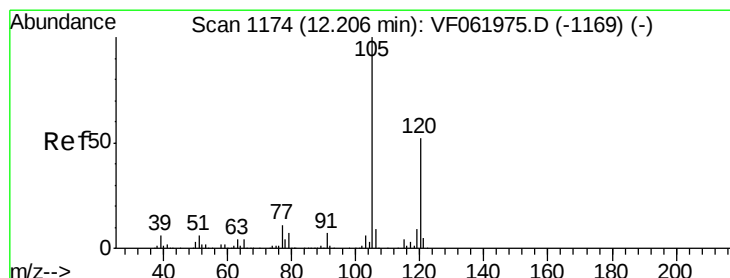
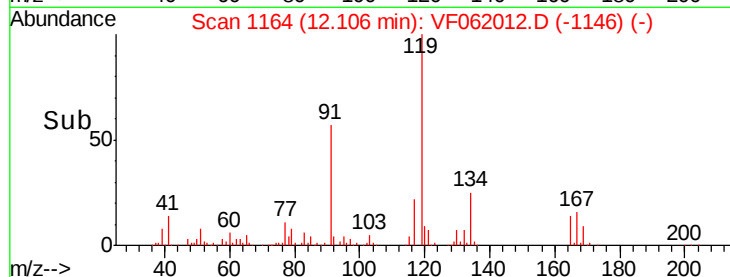
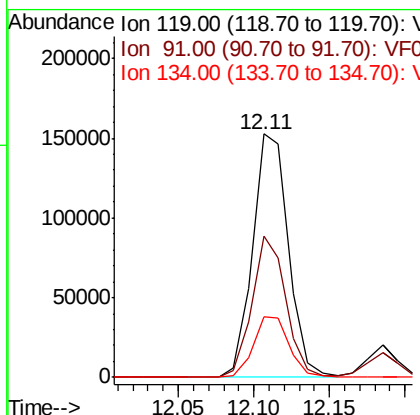
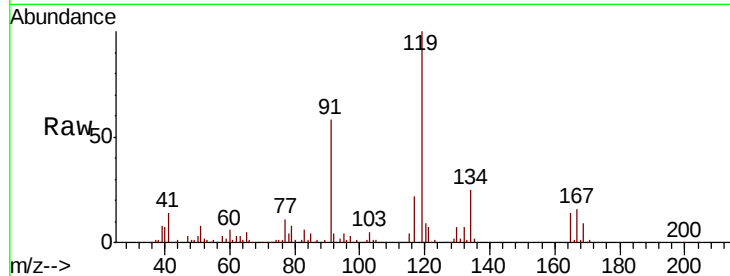
#83
 tert-Butylbenzene
 Concen: 23.214 ug/l
 RT: 12.11 min Scan# 1164
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	251690		
91	57.8		27.9	83.6
134	24.7		12.3	36.8

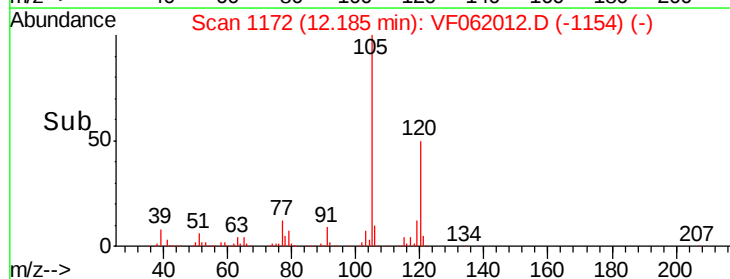
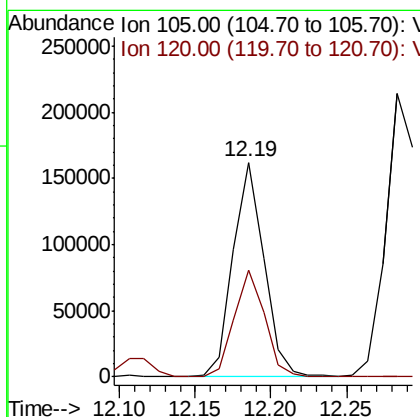
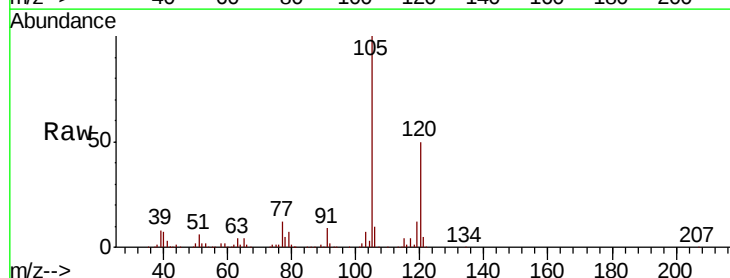
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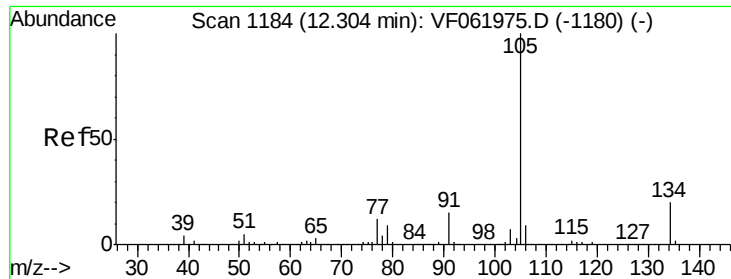
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.245 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	230996		
120	49.8		25.9	77.8





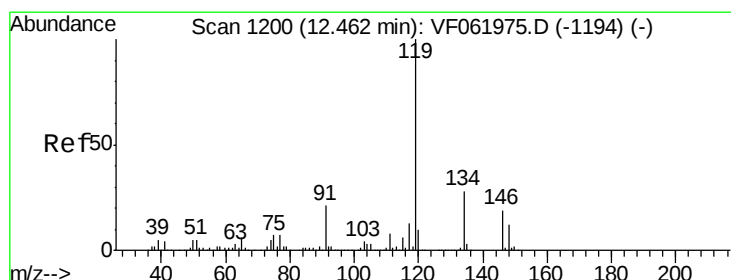
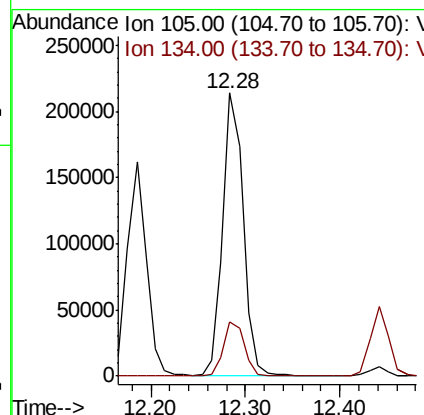
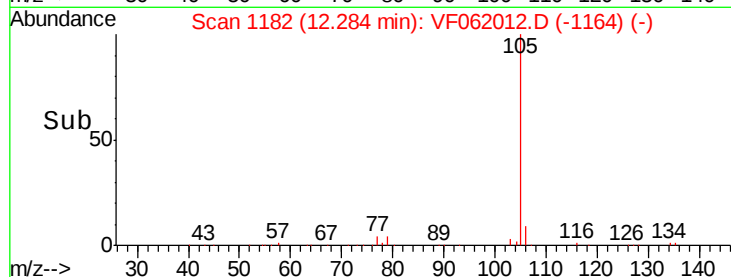
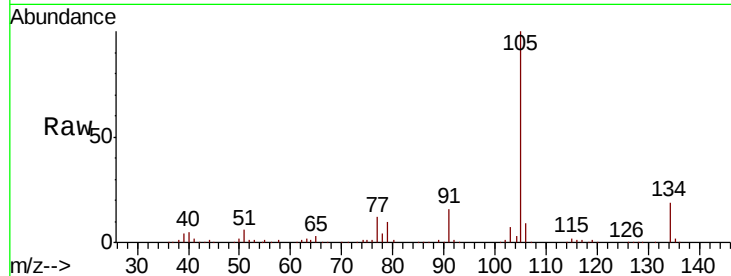
#85
 sec-Butylbenzene
 Concen: 21.942 ug/l
 RT: 12.28 min Scan# 1182
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion:105 Resp: 321423
 Ion Ratio Lower Upper
 105 100
 134 19.0 10.0 29.8

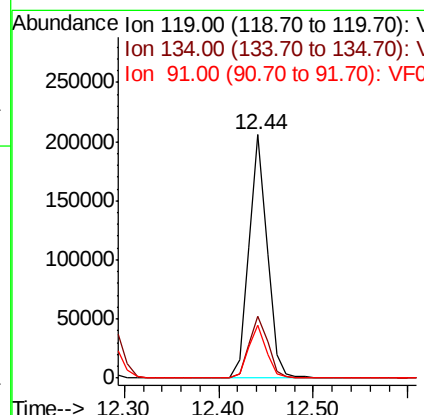
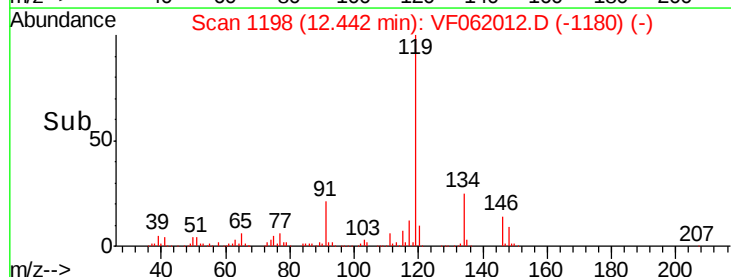
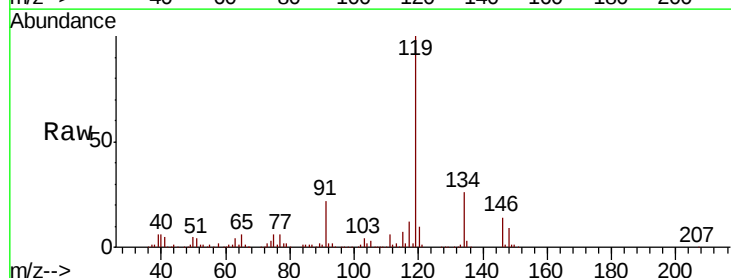
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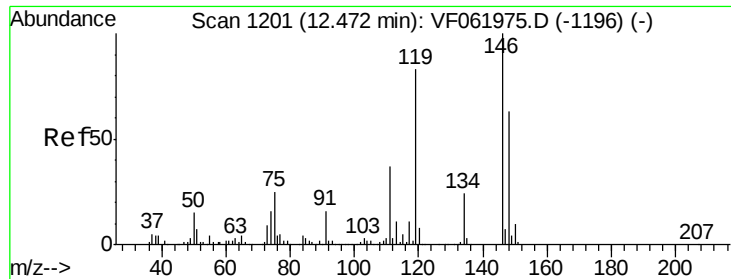
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#86
 p-Isopropyltoluene
 Concen: 22.518 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion:119 Resp: 275255
 Ion Ratio Lower Upper
 119 100
 134 25.6 13.9 41.7
 91 22.0 10.4 31.1





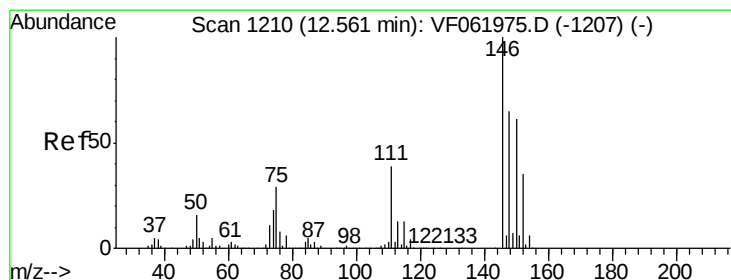
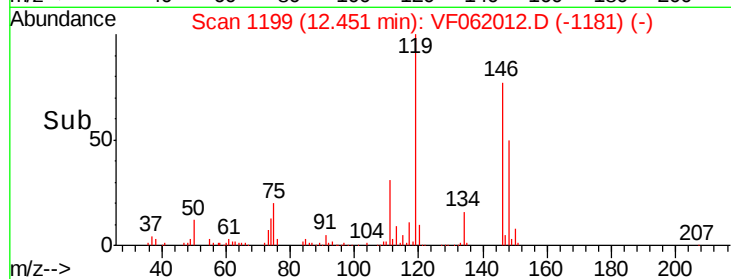
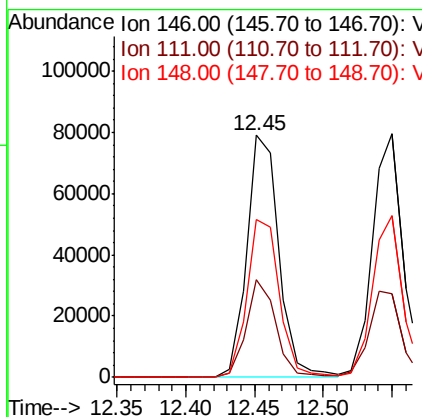
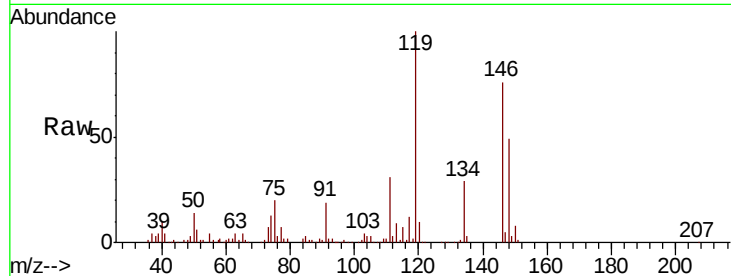
#87
 1,3-Dichlorobenzene
 Concen: 22.145 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.6	55.8
148	65.1	31.3	93.9

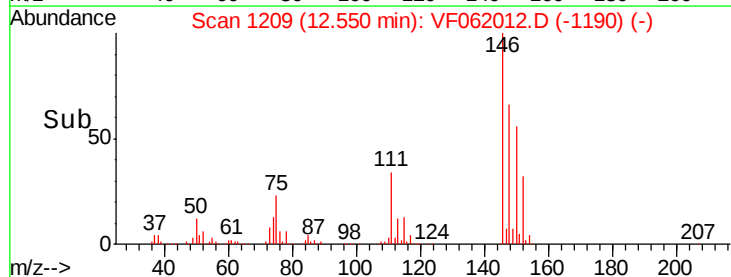
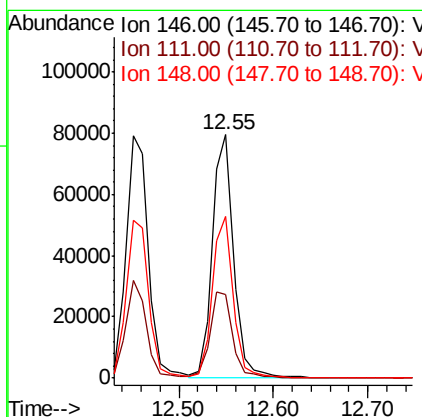
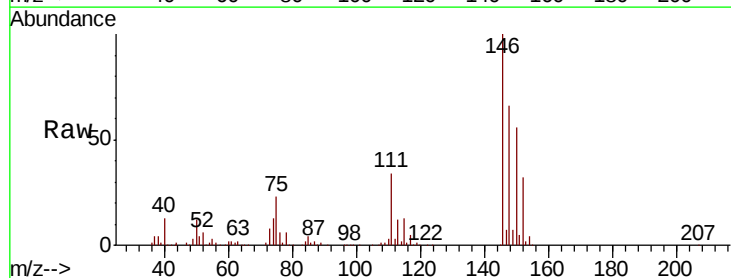
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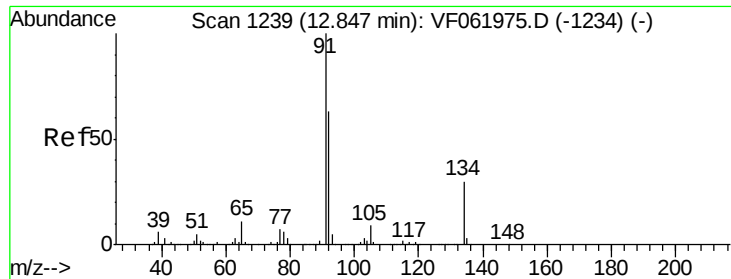
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#88
 1,4-Dichlorobenzene
 Concen: 22.218 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.2	19.4	58.1
148	66.5	32.4	97.0





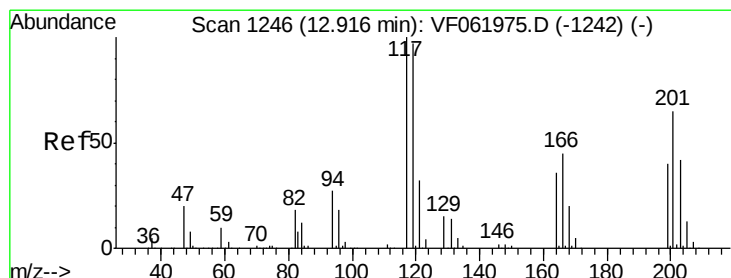
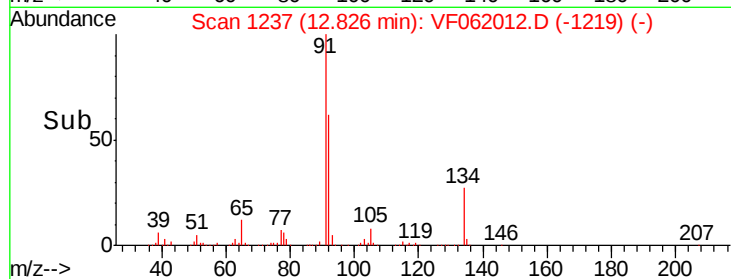
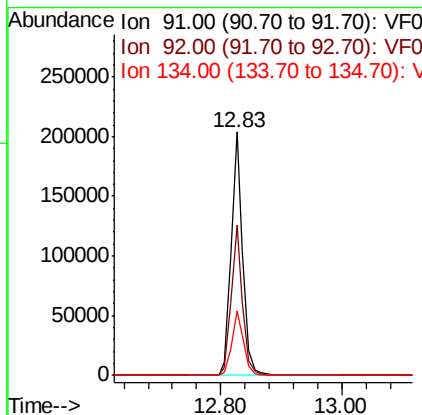
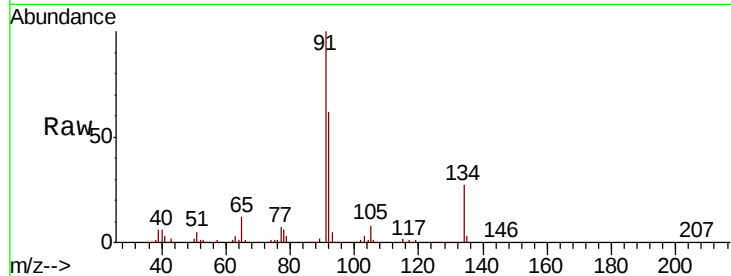
#89
n-Butylbenzene
Concen: 23.061 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Instrument :
MSVOA_F
ClientSampleId :
VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	264875		
92	61.8	31.7	95.1	
134	26.6	15.1	45.3	

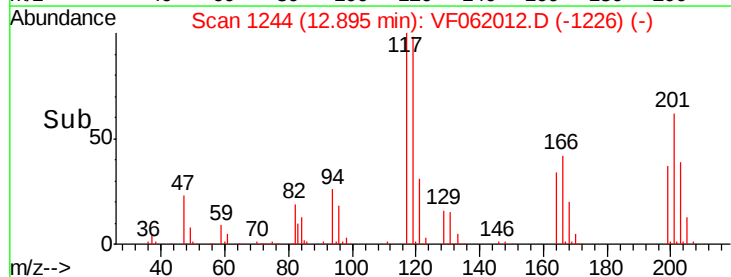
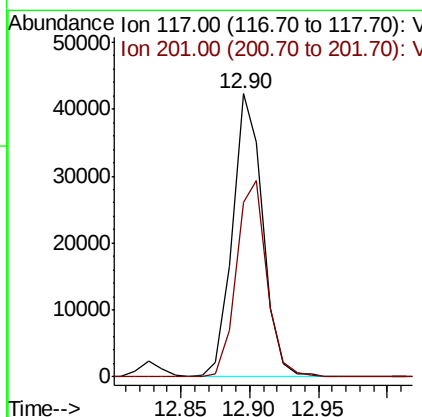
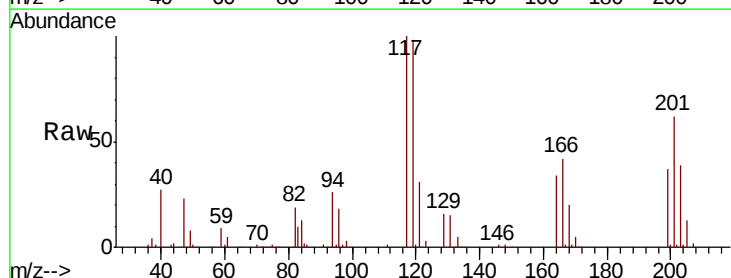
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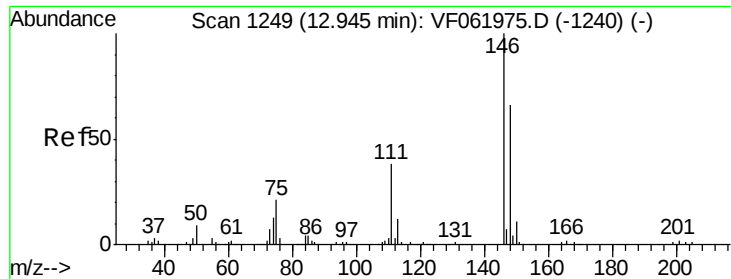
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#90
Hexachloroethane
Concen: 23.168 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF062012.D
Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	64629		
201	61.5	32.5	97.5	





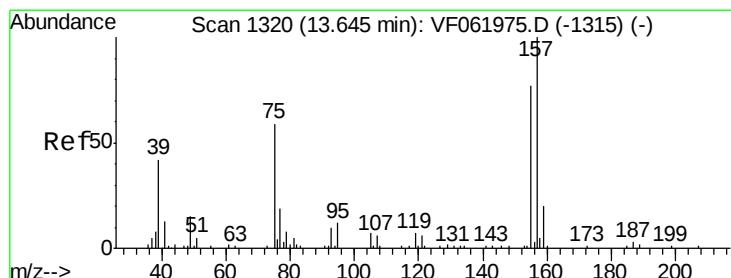
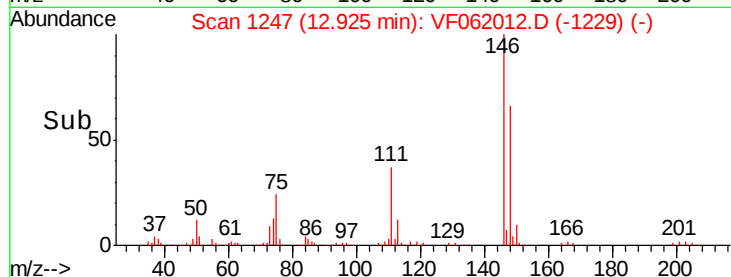
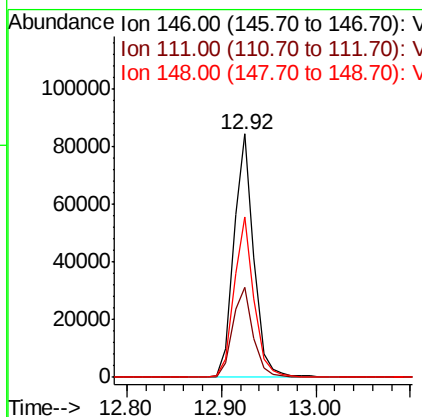
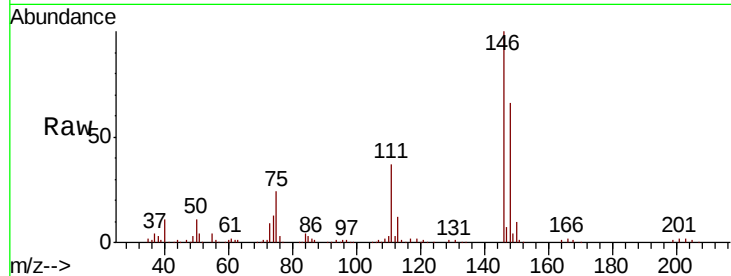
#91
 1,2-Dichlorobenzene
 Concen: 22.693 ug/l
 RT: 12.92 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	122779		
111	37.2		18.9	56.5
148	66.0		32.9	98.6

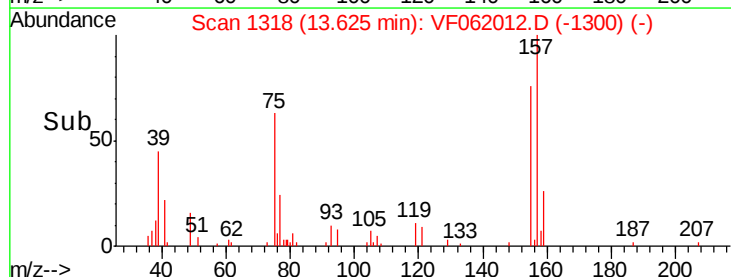
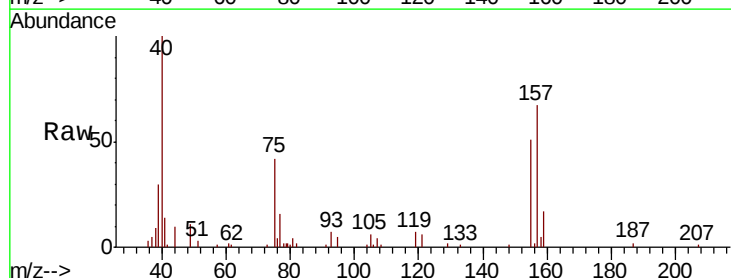
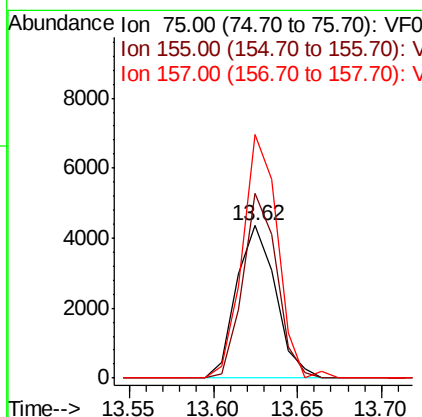
Manual Integrations
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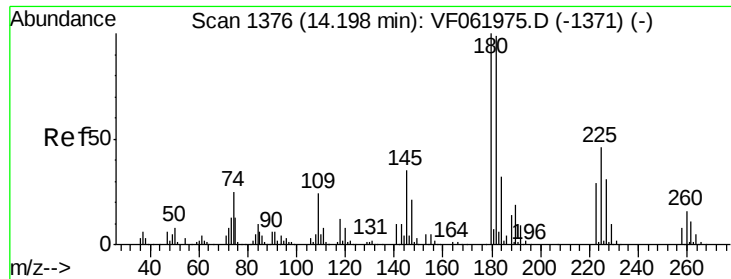
MMDadoda
 3/22/2019 4:54:01 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.718 ug/l
 RT: 13.62 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	7043		
155	120.8		65.0	195.1
157	159.7		84.7	254.0





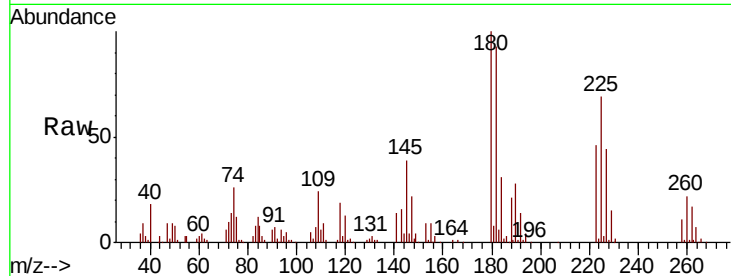
#93
 1,2,4-Trichlorobenzene
 Concen: 22.792 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0319SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	85871		
182	92.8	49.6	149.0	
145	38.8	17.5	52.5	

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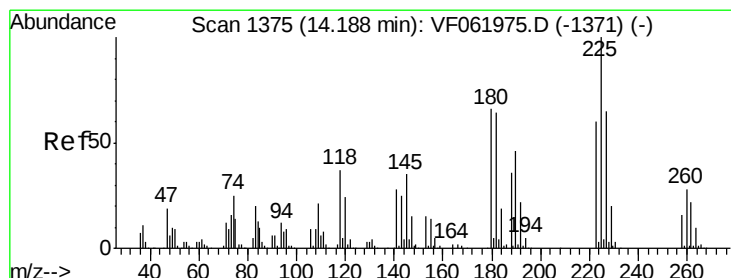
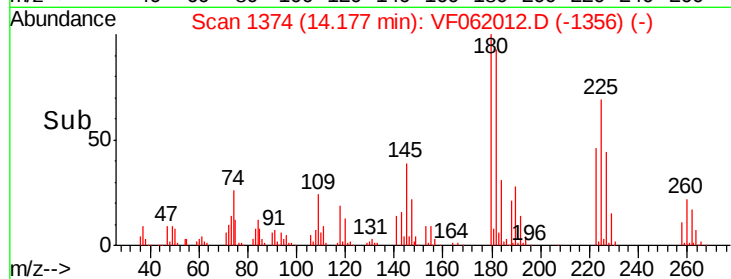
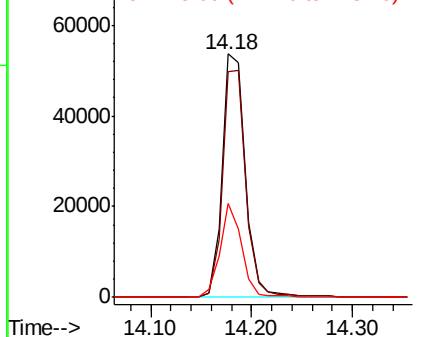


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 22.131 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF062012.D
 Acq: 19 Mar 2019 12:21

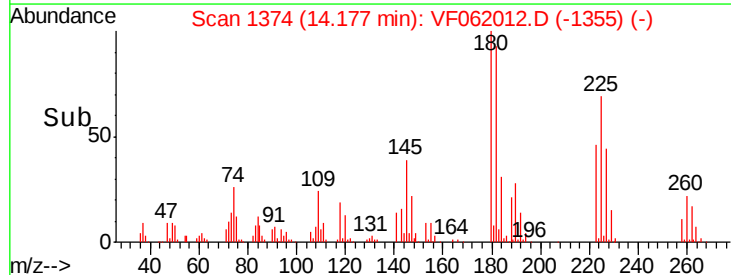
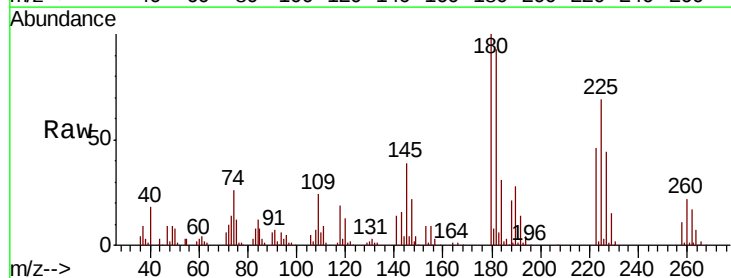
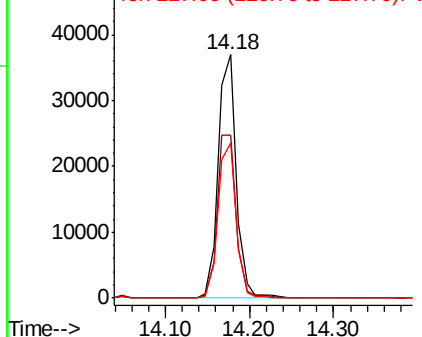
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	55354		
223	67.1	29.9	89.7	
227	64.0	32.4	97.2	

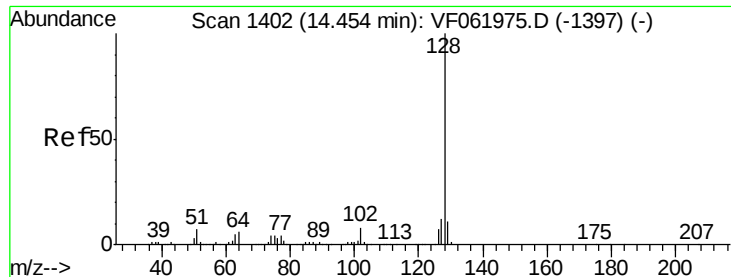
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 20.406 ug/l

RT: 14.44 min Scan# 1401

Delta R.T. -0.01 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Instrument :

MSVOA_F

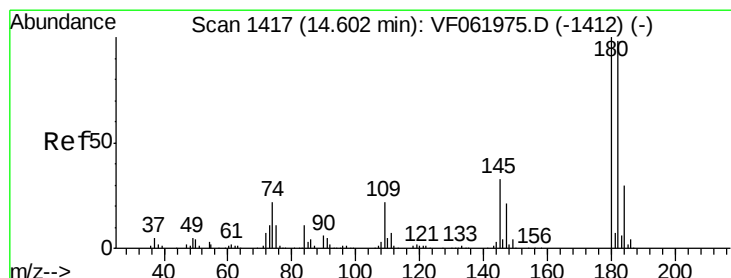
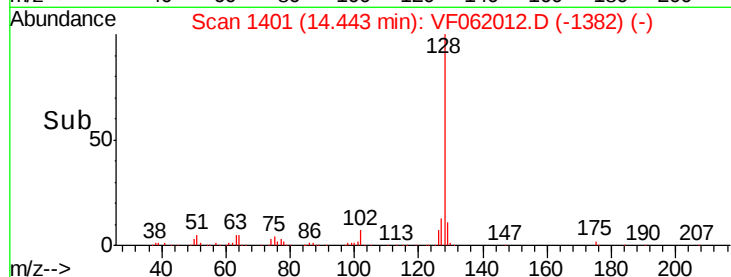
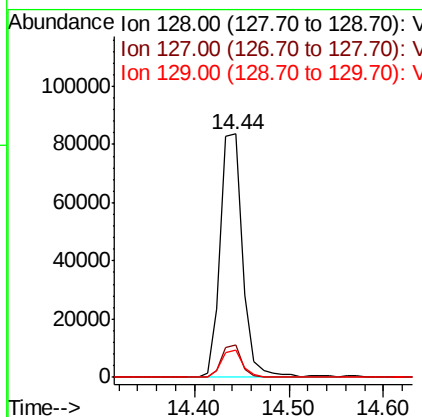
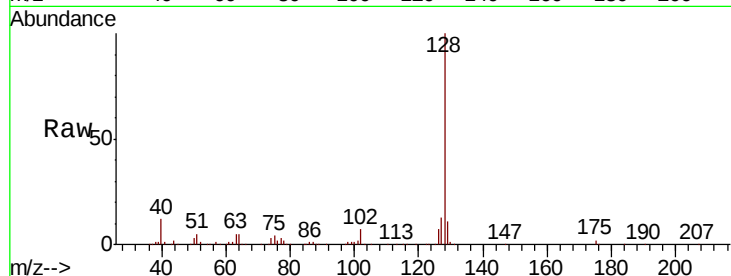
ClientSampleId :

VF0319SBS01

Tot Ion:	128	Resp:	138273
Ion Ratio	Lower	Upper	
128	100		
127	13.2	9.3	13.9
129	11.0	9.1	13.7

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#96

1,2,3-Trichlorobenzene

Concen: 22.510 ug/l

RT: 14.58 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062012.D

Acq: 19 Mar 2019 12:21

Tgt Ion:	180	Resp:	78023
Ion Ratio	Lower	Upper	
180	100		
182	95.4	48.9	146.8
145	36.4	16.7	50.1

