

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111218\
 Data File : VF060691.D
 Acq On : 12 Nov 2018 18:05
 Operator : VA/AP
 Sample : VF1112SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2018 2:11:04 PM

Quant Time: Nov 13 04:38:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	217345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	344018	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	326148	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	186381	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	130657	59.50	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	119.00%	
35) Dibromofluoromethane	4.10	113	148104	55.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.44%	
50) Toluene-d8	7.54	98	414545	52.65	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.30%	
62) 4-Bromofluorobenzene	11.40	95	202913	58.92	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	117.84%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	82471	35.123	ug/l	96
3) Chloromethane	1.10	50	47451	24.945	ug/l	94
4) Vinyl Chloride	1.14	62	45174	25.772	ug/l #	85
5) Bromomethane	1.31	94	25398	25.814	ug/l	82
6) Chloroethane	1.37	64	16935	24.574	ug/l	98
7) Trichlorofluoromethane	1.48	101	94159	28.701	ug/l	86
8) Diethyl Ether	1.62	74	11496	18.907	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.81	101	48359	25.796	ug/l	95
10) Methyl Iodide	1.87	142	72712	23.569	ug/l #	80
11) Tert butyl alcohol	2.56	59	12259	102.599	ug/l #	84
12) 1,1-Dichloroethene	1.77	96	35397	22.418	ug/l	81
13) Acrolein	2.00	56	9593	114.986	ug/l	95
14) Allyl chloride	2.09	41	66303	25.717	ug/l	87
15) Acrylonitrile	2.93	53	25188	96.242	ug/l	97
16) Acetone	2.22	43	69738	134.770	ug/l	98
17) Carbon Disulfide	1.82	76	102217m	22.982	ug/l	
18) Methyl Acetate	2.33	43	17717	22.310	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	87267	23.643	ug/l	95
20) Methylene Chloride	2.18	84	42926	25.276	ug/l	97
21) trans-1,2-Dichloroethene	2.30	96	38605	23.305	ug/l	93
22) Diisopropyl ether	2.79	45	122545	22.434	ug/l	99
23) Vinyl Acetate	3.17	43	304380	92.743	ug/l	95
24) 1,1-Dichloroethane	2.87	63	77596	24.546	ug/l	98
25) 2-Butanone	4.32	43	110936	93.976	ug/l	94
26) 2,2-Dichloropropane	3.59	77	63980	27.048	ug/l	96
27) cis-1,2-Dichloroethene	3.47	96	65292	20.647	ug/l	96
28) Bromochloromethane	3.70	49	42524	21.434	ug/l	97
29) Tetrahydrofuran	4.06	42	34878	83.739	ug/l	96
30) Chloroform	3.84	83	116730	23.339	ug/l	97
31) Cyclohexane	3.68	56	91346	20.939	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	100704	28.829	ug/l	96
36) 1,1-Dichloropropene	4.27	75	89904	23.735	ug/l	97
37) Ethyl Acetate	4.09	43	32236	17.728	ug/l #	52
38) Carbon Tetrachloride	3.98	117	90455m	27.946	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.44	83	101426	21.942	ug/l	95
40) Benzene	4.62	78	204510	22.243	ug/l	96
41) Methacrylonitrile	4.72	41	21306	20.691	ug/l #	92
42) 1,2-Dichloroethane	4.94	62	61642	23.359	ug/l	98
43) Isopropyl Acetate	6.95	43	43269	18.812	ug/l #	99
44) Trichloroethene	5.49	130	63535	22.992	ug/l	97
45) 1,2-Dichloropropane	6.22	63	53195	22.621	ug/l	98
46) Dibromomethane	6.07	93	33966	22.768	ug/l #	87
47) Bromodichloromethane	6.37	83	86315	23.988	ug/l #	99
48) Methyl methacrylate	6.70	41	29269	20.248	ug/l	93
49) 1,4-Dioxane	6.68	88	5349	353.731	ug/l #	84
51) 4-Methyl-2-Pentanone	8.24	43	157474	101.814	ug/l	97
52) Toluene	7.61	92	132682	22.153	ug/l	93
53) t-1,3-Dichloropropene	8.26	75	69312	22.163	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	90832	22.987	ug/l	91
55) 1,1,2-Trichloroethane	8.48	97	38111	21.866	ug/l	92
56) Ethyl methacrylate	8.61	69	46258	20.629	ug/l	91
57) 1,3-Dichloropropane	8.84	76	72171	23.599	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.61	63	21224	138.678	ug/l	100
59) 2-Hexanone	9.48	43	135005	118.339	ug/l	94
60) Dibromochloromethane	8.71	129	55091	22.601	ug/l	97
61) 1,2-Dibromoethane	8.97	107	41471	22.627	ug/l	96
64) Tetrachloroethene	8.14	164	57103	22.340	ug/l	95
65) Chlorobenzene	9.78	112	146461	21.959	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	63779	22.631	ug/l	97
67) Ethyl Benzene	9.89	91	283787	23.447	ug/l	99
68) m/p-Xylenes	10.12	106	198479	43.533	ug/l	90
69) o-Xylene	10.70	106	114480	22.996	ug/l	91
70) Styrene	10.78	104	160355	22.233	ug/l	91
71) Bromoform	10.77	173	29400	20.199	ug/l #	94
73) Isopropylbenzene	11.11	105	352433	24.246	ug/l	92
74) N-amyl acetate	11.36	43	73482	17.648	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	56807	21.411	ug/l	97
76) 1,2,3-Trichloropropane	11.86	75	25543	19.590	ug/l	91
77) Bromobenzene	11.49	156	70091	22.037	ug/l	90
78) n-propylbenzene	11.59	91	405966	23.871	ug/l	99
79) 2-Chlorotoluene	11.71	91	223798	23.043	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	276433	23.072	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.86	75	19397m	18.929	ug/l	
82) 4-Chlorotoluene	11.89	91	236806	23.370	ug/l	100
83) tert-Butylbenzene	12.12	119	273316	22.330	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	276604	23.575	ug/l	97
85) sec-Butylbenzene	12.30	105	386680	22.965	ug/l	97
86) p-Isopropyltoluene	12.45	119	311882	22.493	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	133695	21.416	ug/l	95
88) 1,4-Dichlorobenzene	12.55	146	128342	21.675	ug/l	97
89) n-Butylbenzene	12.84	91	339668	22.648	ug/l	96
90) Hexachloroethane	12.91	117	77840	22.075	ug/l	79
91) 1,2-Dichlorobenzene	12.94	146	129705	22.208	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	9098	19.738	ug/l	91

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ClientSampleId :
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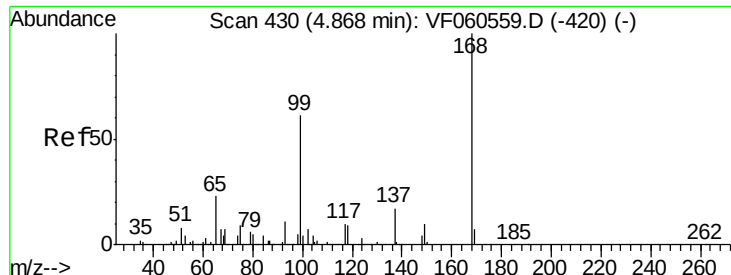
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	90042	22.694	ug/l	93
94) Hexachlorobutadiene	14.18	225	58022	22.568	ug/l	94
95) Naphthalene	14.45	128	155598	19.593	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	84183	22.460	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:168 Resp: 217345

Ion Ratio Lower Upper

168 100

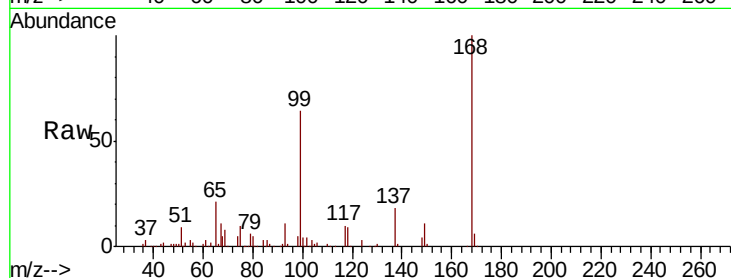
99 64.2 48.6 72.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

60000

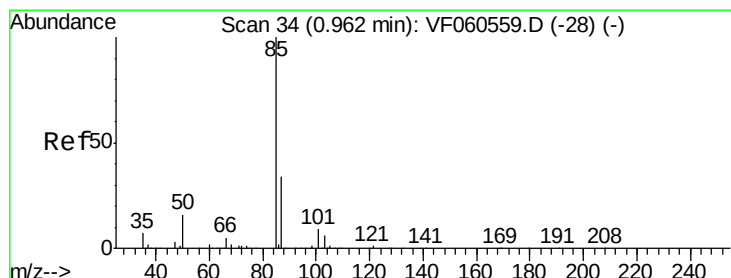
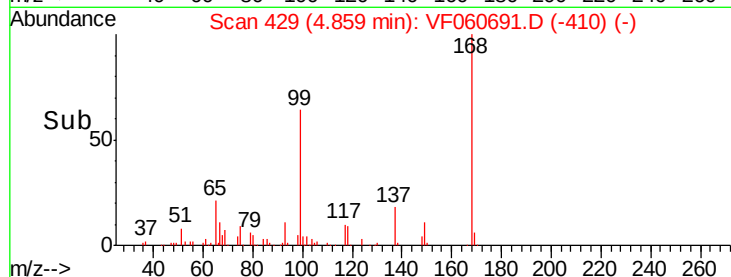
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 35.123 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060691.D

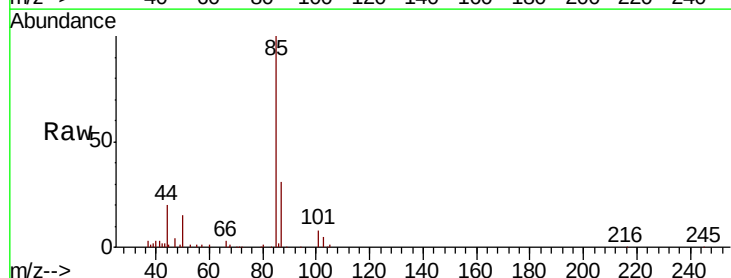
Acq: 12 Nov 2018 18:05

Tgt Ion: 85 Resp: 82471

Ion Ratio Lower Upper

85 100

87 31.4 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

15000

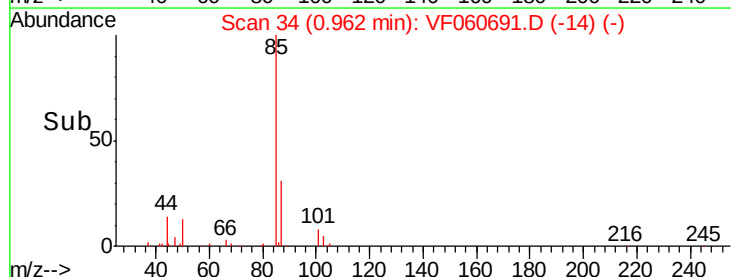
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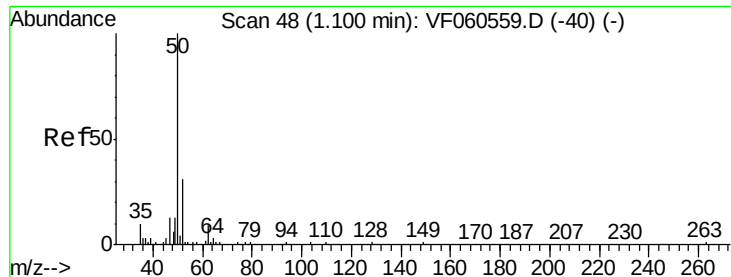
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 24.945 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 50 Resp: 47451

Ion Ratio Lower Upper

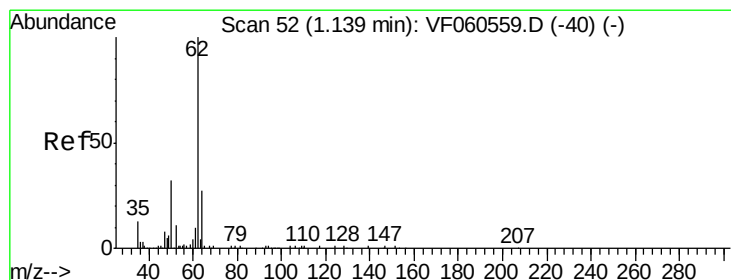
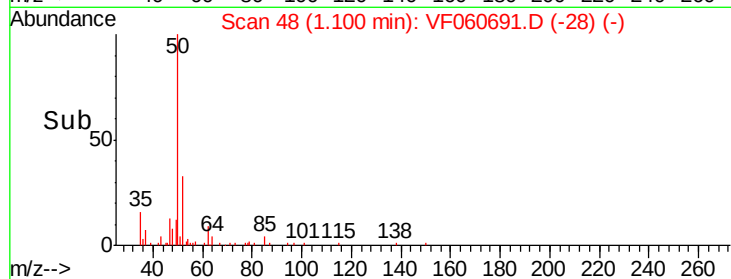
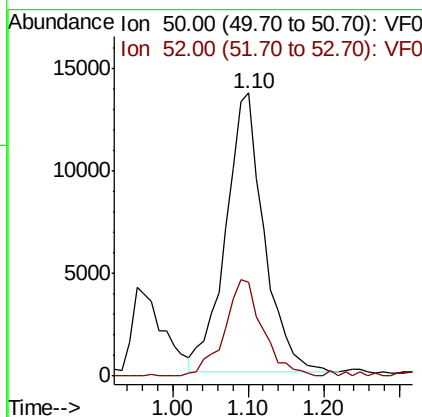
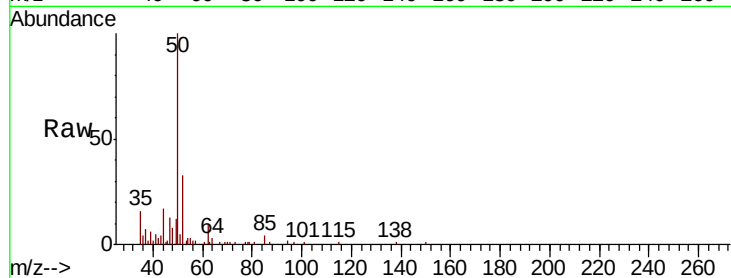
50 100

52 33.1 24.0 36.0

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#4

Vinyl Chloride

Concen: 25.772 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060691.D

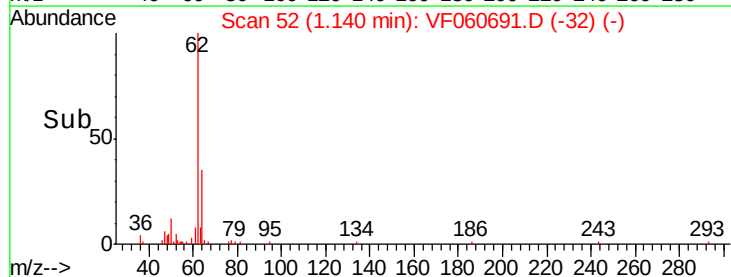
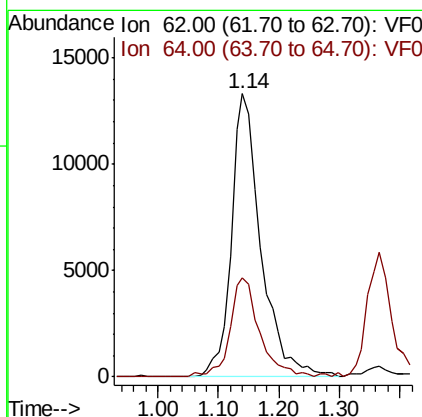
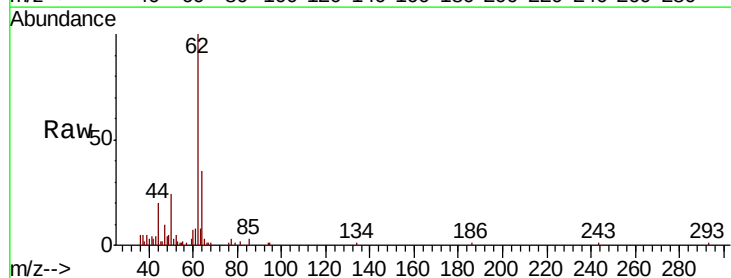
Acq: 12 Nov 2018 18:05

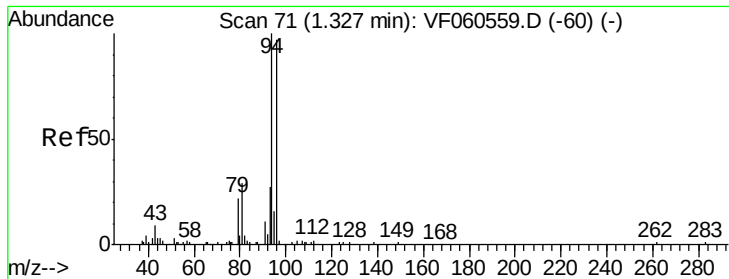
Tgt Ion: 62 Resp: 45174

Ion Ratio Lower Upper

62 100

64 35.0 21.8 32.6#





#5

Bromomethane

Concen: 25.814 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 94 Resp: 25398

Ion Ratio Lower Upper

94 100

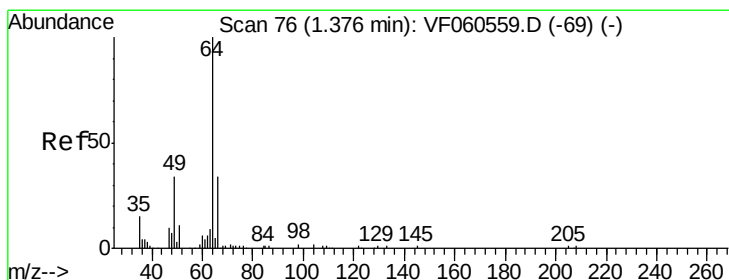
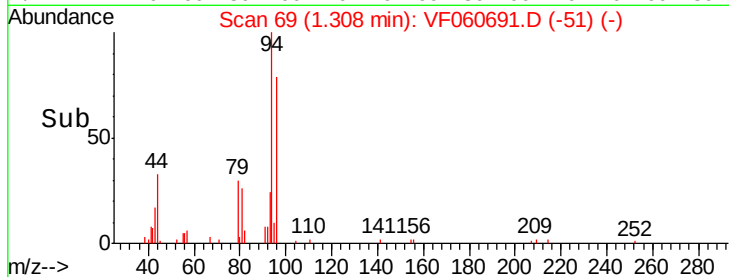
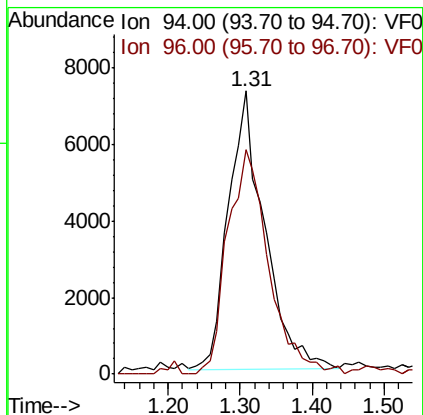
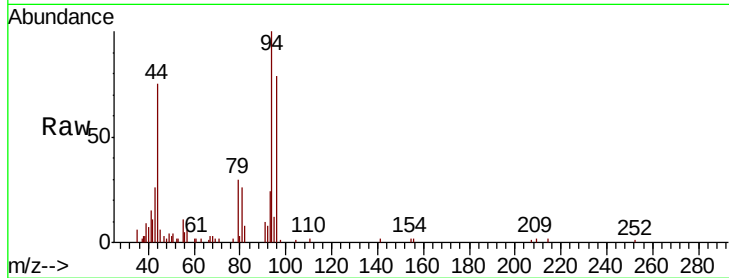
96 79.3 77.9 116.9

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#6

Chloroethane

Concen: 24.574 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060691.D

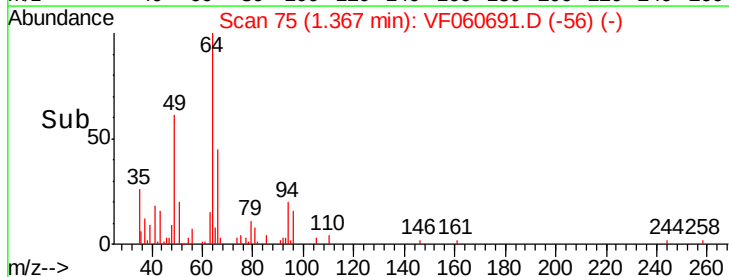
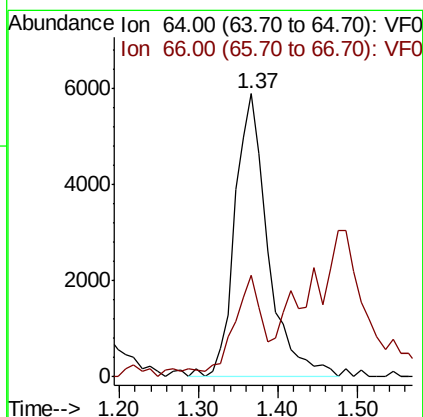
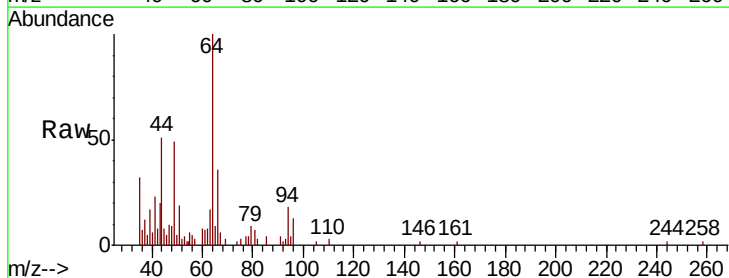
Acq: 12 Nov 2018 18:05

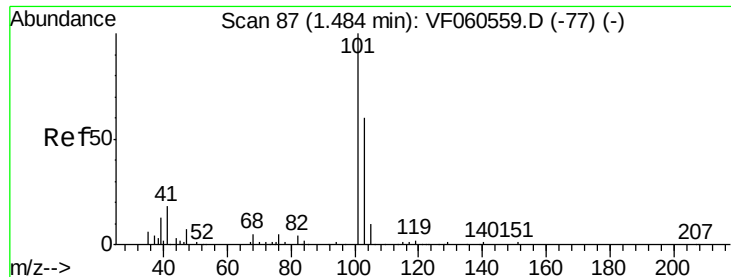
Tgt Ion: 64 Resp: 16935

Ion Ratio Lower Upper

64 100

66 36.1 27.8 41.8





#7

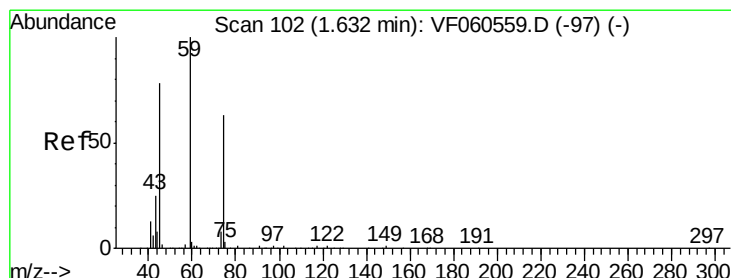
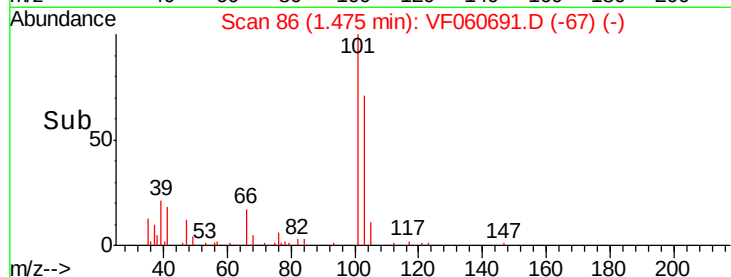
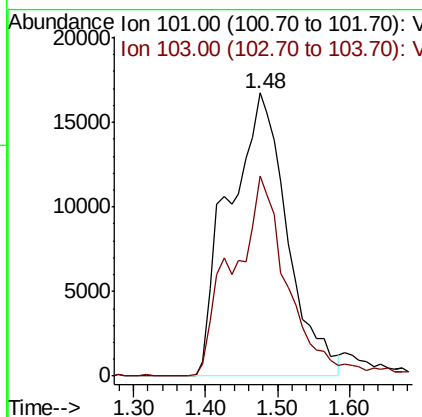
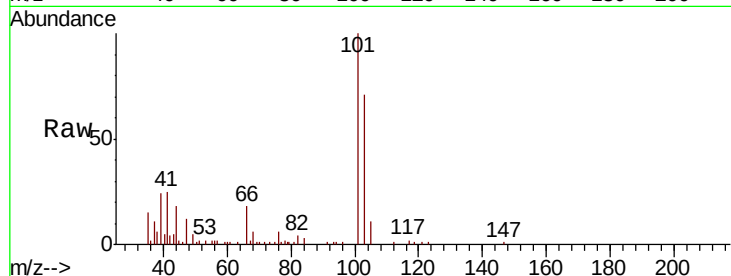
Trichlorofluoromethane
 Concen: 28.701 ug/l
 RT: 1.48 min Scan# 86
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

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 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.5	48.0	72.0

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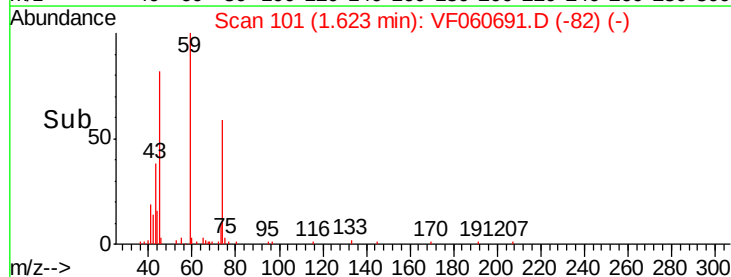
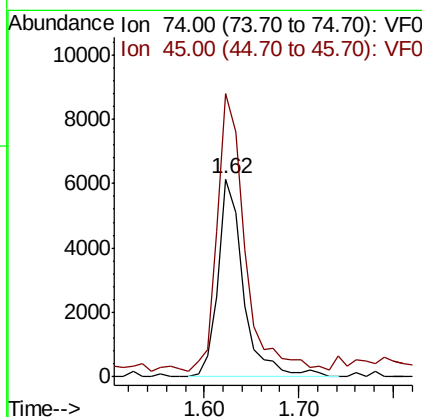
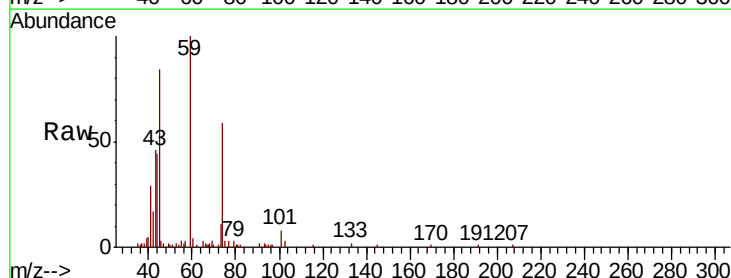
MMDadoda
 11/13/2018 2:11:04 PM

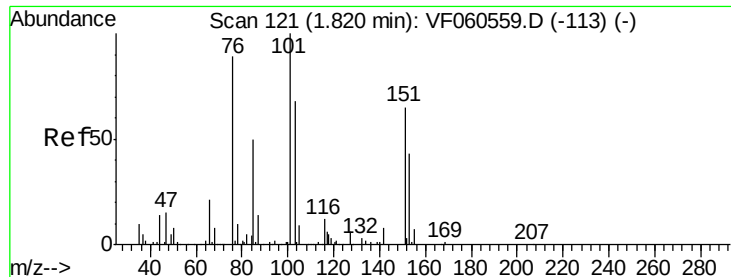


#8

Diethyl Ether
 Concen: 18.907 ug/l
 RT: 1.62 min Scan# 101
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	142.8	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.796 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

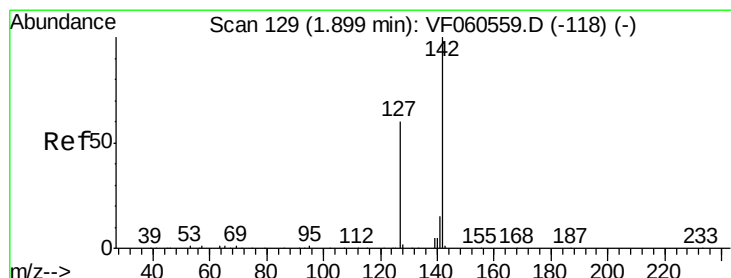
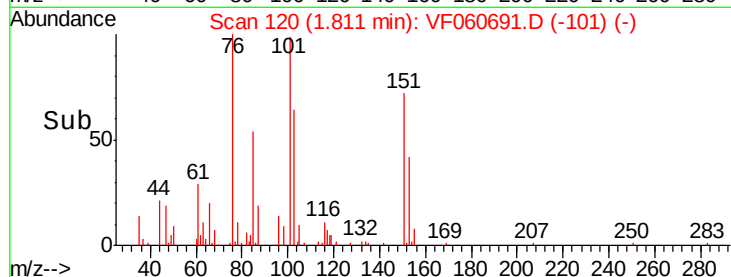
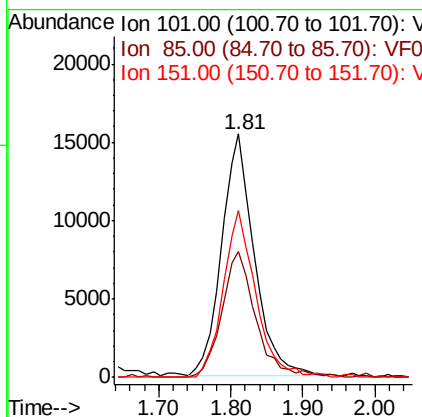
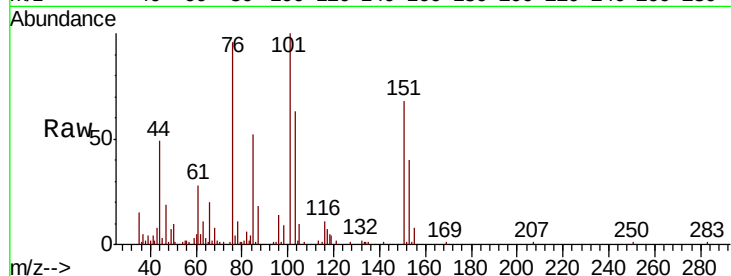
ClientSampleId :

VF1112SBS01

Tot Ion:	101	Resp:	48359
Ion Ratio	Lower	Upper	
101	100		
85	51.5	39.8	59.6
151	68.4	50.8	76.2

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#10

Methyl Iodide

Concen: 23.569 ug/l

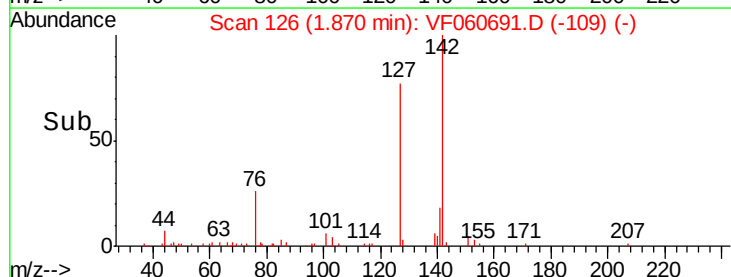
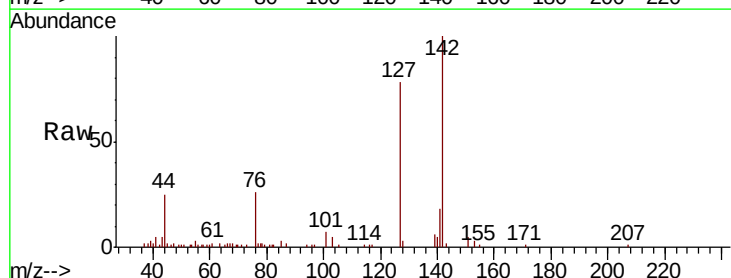
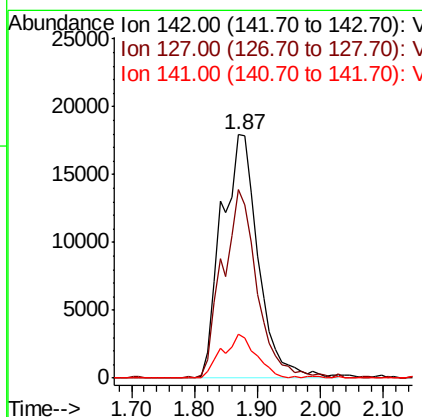
RT: 1.87 min Scan# 126

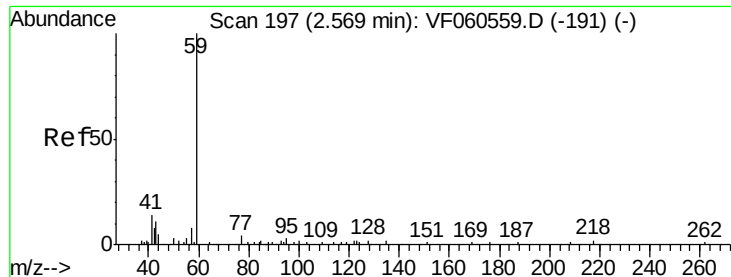
Delta R.T. -0.03 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	142	Resp:	72712
Ion Ratio	Lower	Upper	
142	100		
127	77.6	47.8	71.6#
141	18.2	12.7	19.1





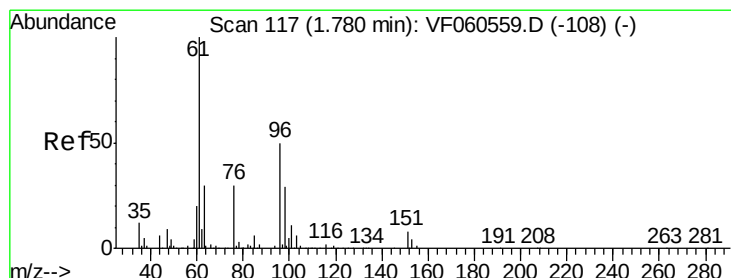
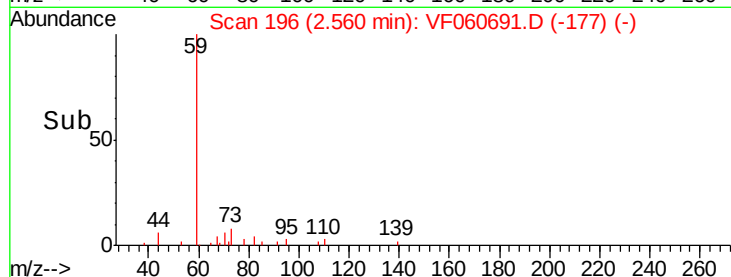
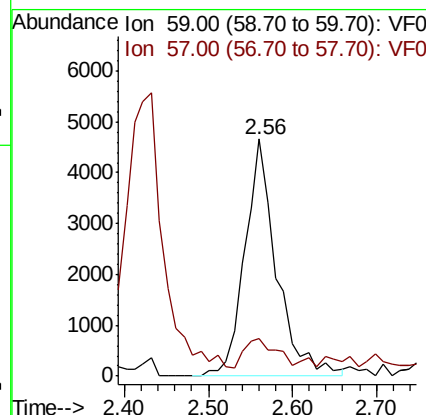
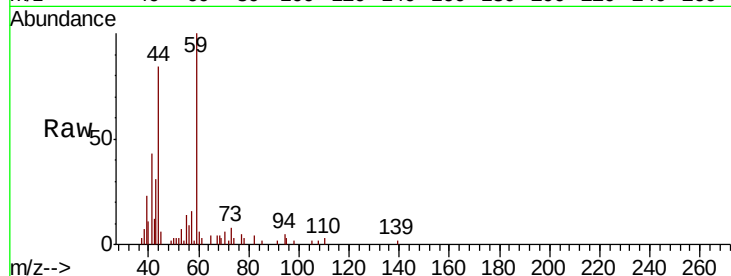
#11
Tert butyl alcohol
Concen: 102.599 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.0	19.0	28.4#

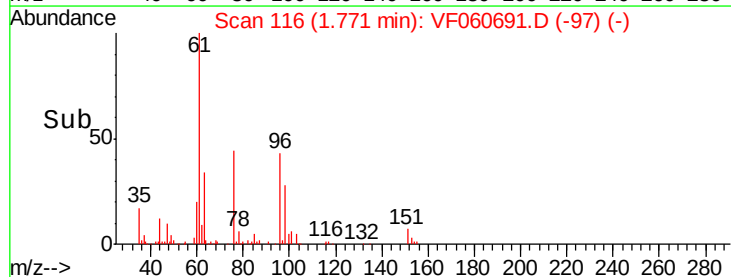
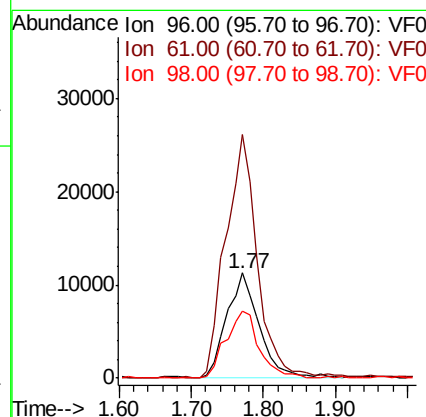
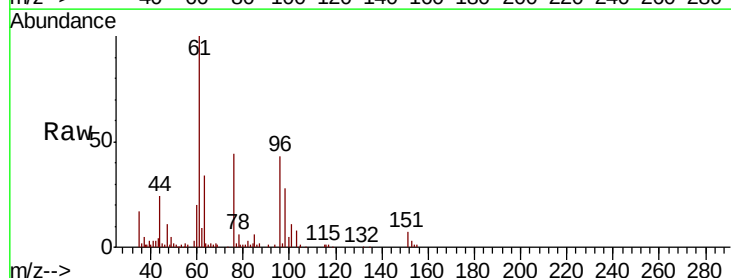
Manual Integrations
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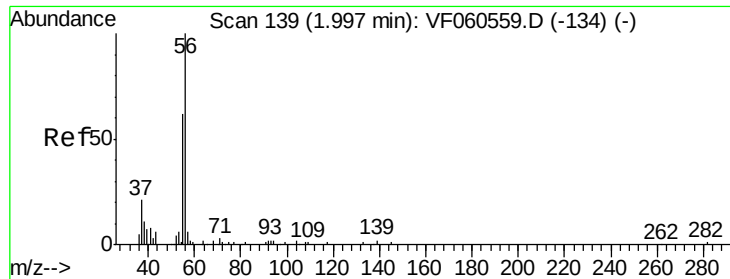
MMDadoda
11/13/2018 2:11:04 PM



#12
1,1-Dichloroethene
Concen: 22.418 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	232.0	158.1	237.1
98	64.2	47.0	70.6





#13

Acrolein

Concen: 114.986 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 56 Resp: 9593

Ion Ratio Lower Upper

56 100

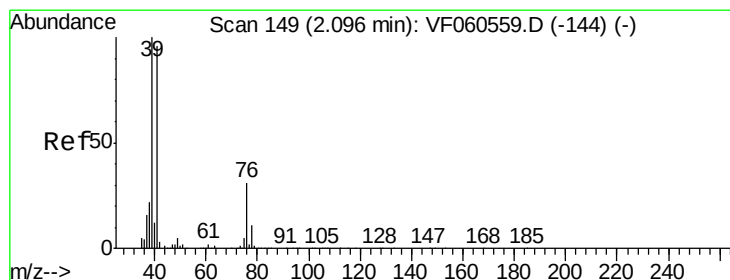
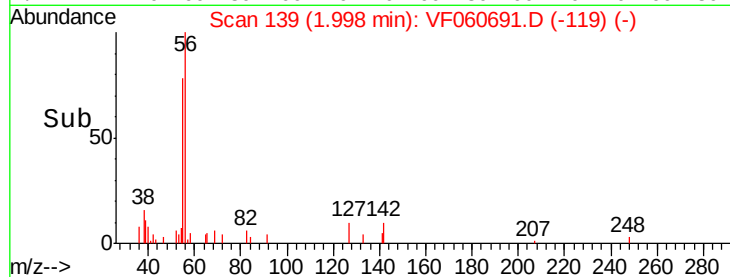
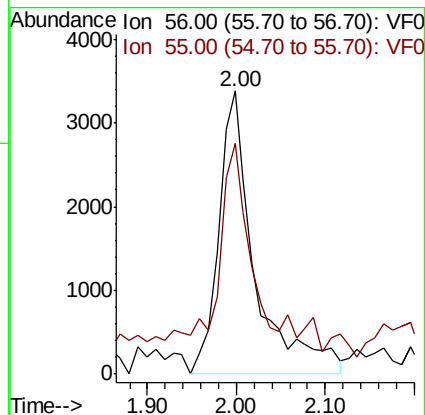
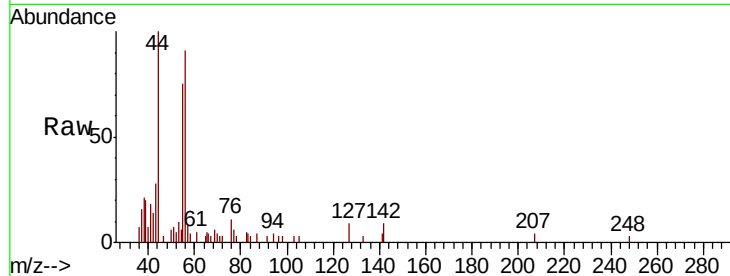
55 81.7 61.8 92.6

Manual Integrations

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#14

Allyl chloride

Concen: 25.717 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

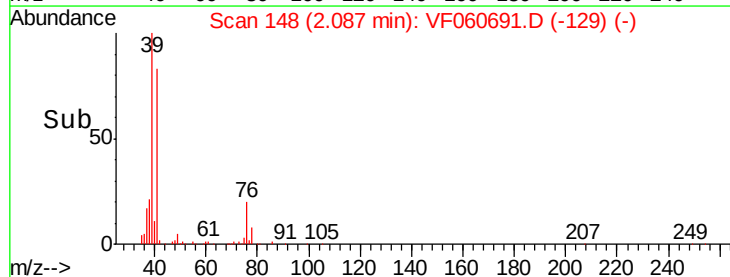
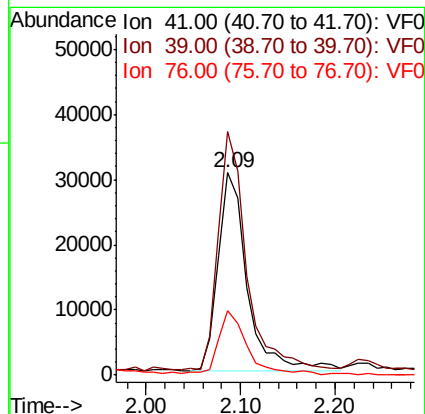
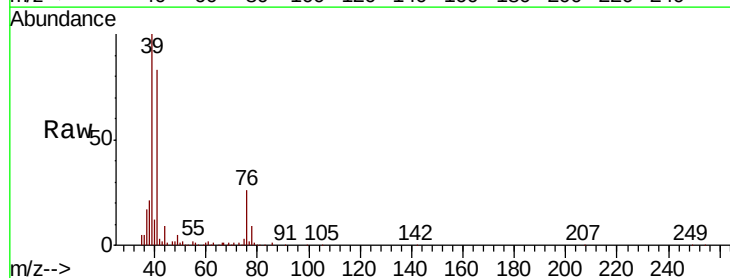
Tgt Ion: 41 Resp: 66303

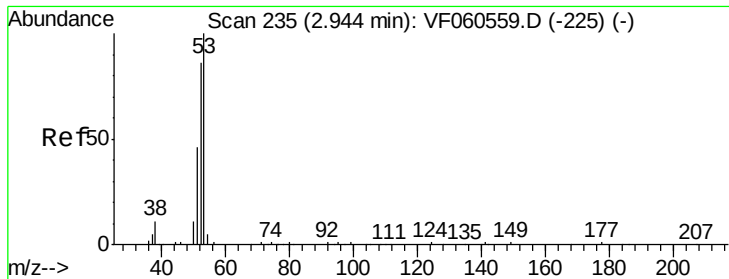
Ion Ratio Lower Upper

41 100

39 120.2 82.6 124.0

76 31.5 26.7 40.1





#15

Acrylonitrile

Concen: 96.242 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

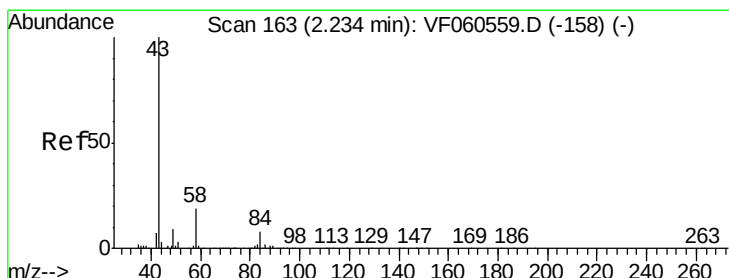
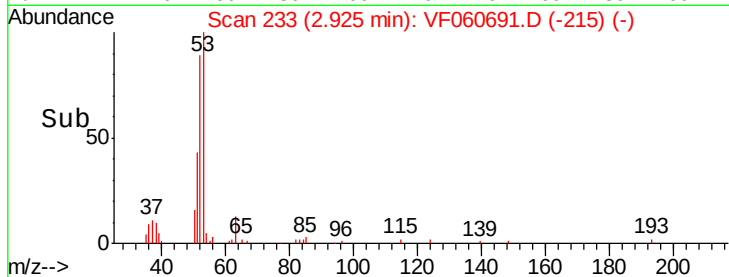
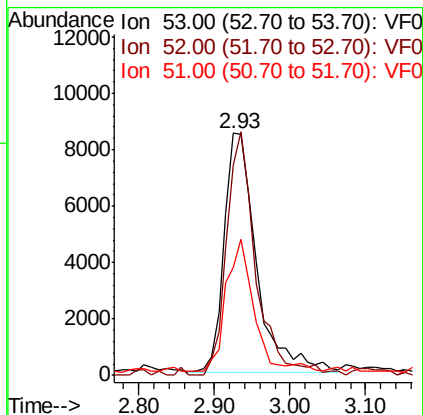
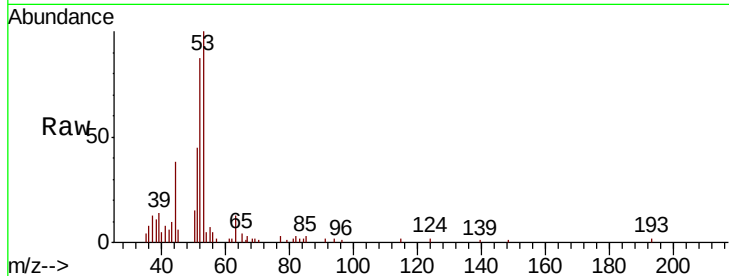
ClientSampleId :

VF1112SBS01

Tot Ion:	53	Resp:	25188
Ion	Ratio	Lower	Upper
53	100		
52	86.9	68.5	102.7
51	44.6	38.2	57.2

Manual Integrations
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#16

Acetone

Concen: 134.770 ug/l

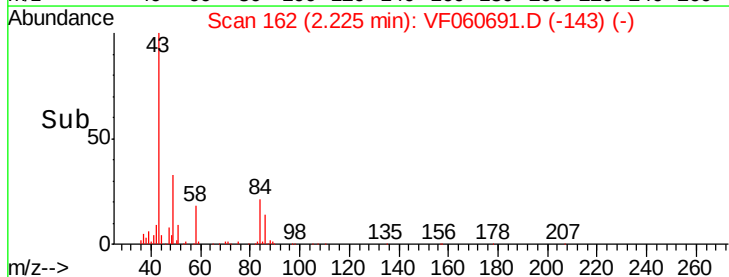
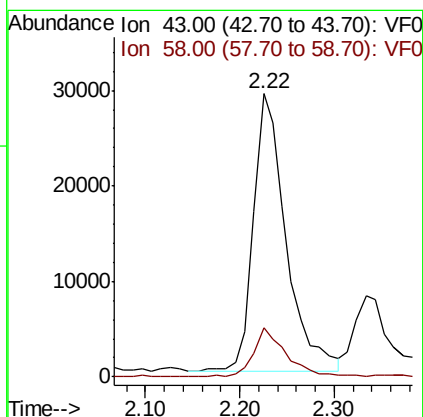
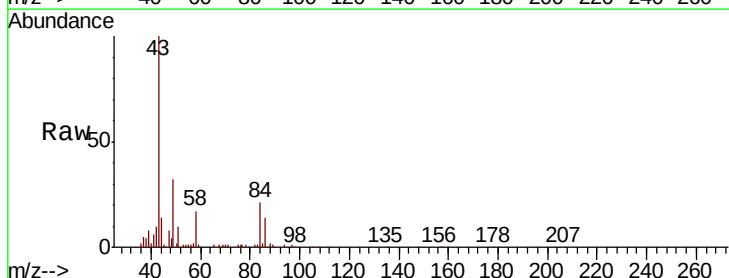
RT: 2.22 min Scan# 162

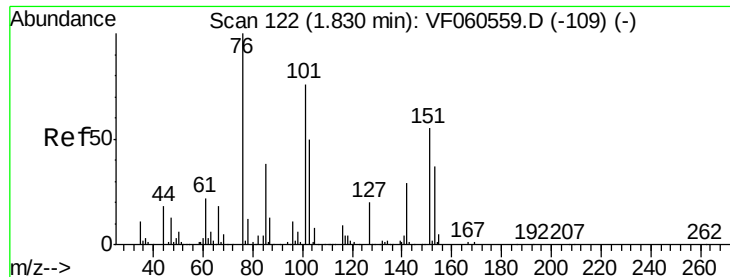
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	43	Resp:	69738
Ion	Ratio	Lower	Upper
43	100		
58	17.5	14.6	22.0





#17

Carbon Disulfide

Concen: 22.982 ug/l m

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tot Ion: 76 Resp: 102217

Ion Ratio Lower Upper

76 100

78 13.6 9.9 14.9

Instrument :

MSVOA_F

ClientSampleId :

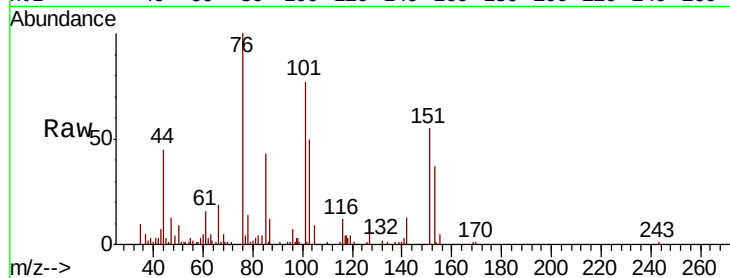
VF1112SBS01

Manual Integrations

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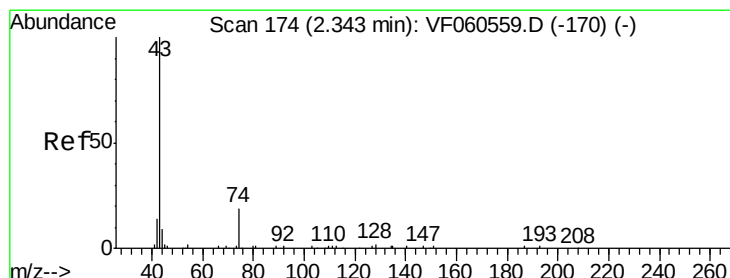
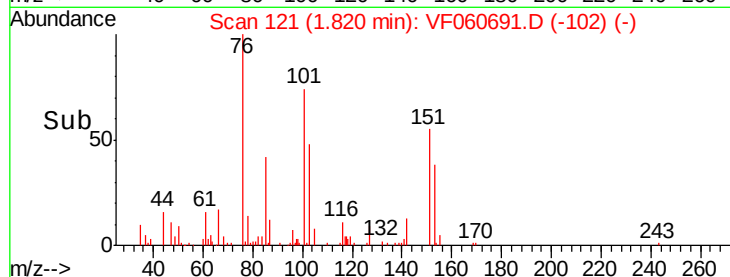
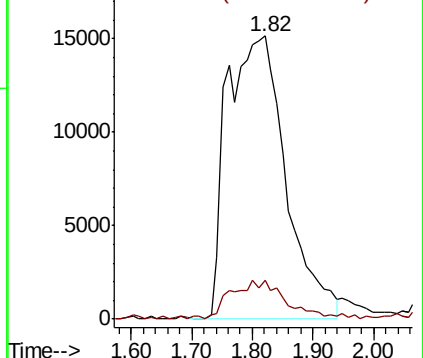
MMDadoda

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 22.310 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060691.D

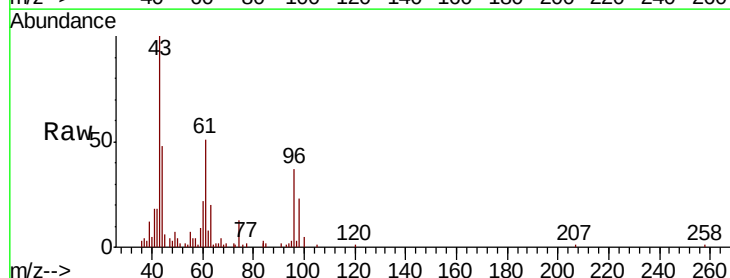
Acq: 12 Nov 2018 18:05

Tgt Ion: 43 Resp: 17717

Ion Ratio Lower Upper

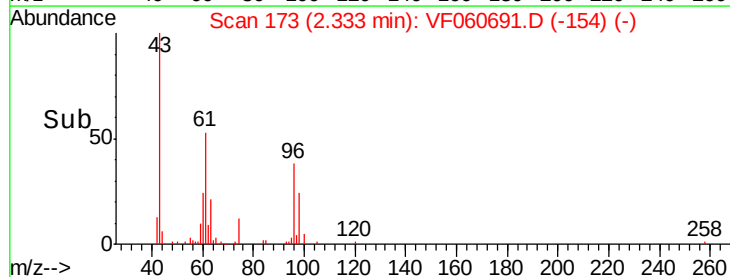
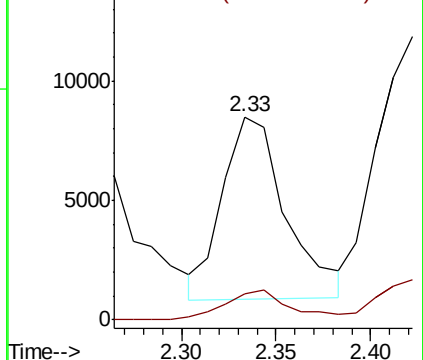
43 100

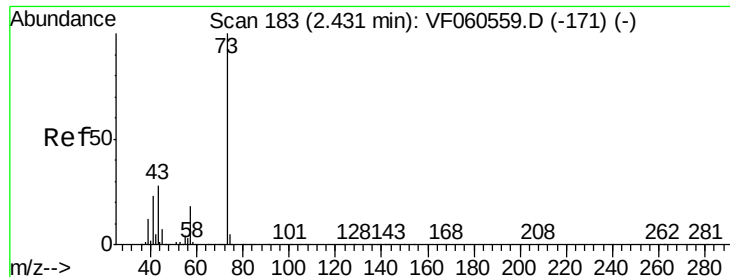
74 12.7 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





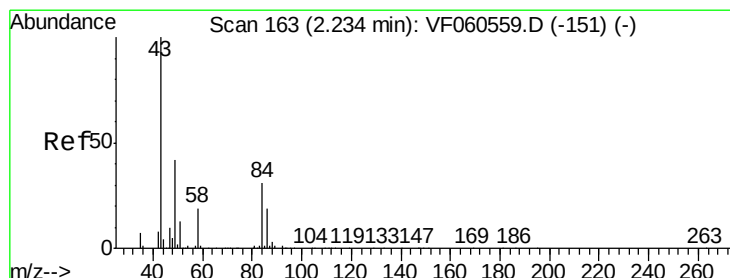
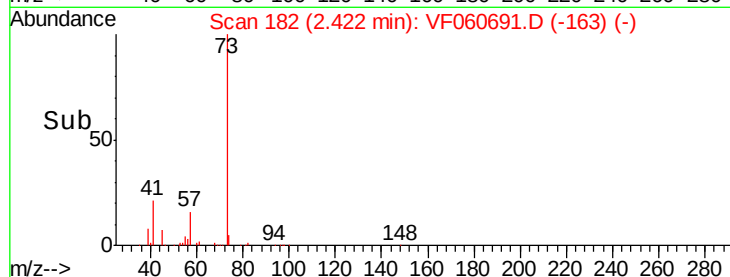
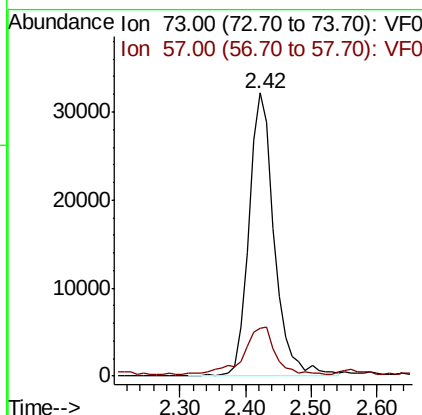
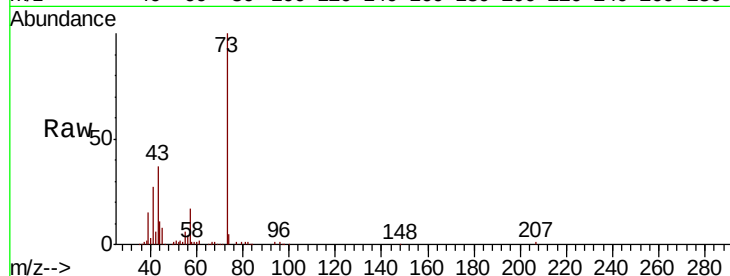
#19
Methyl tert-butyl Ether
Concen: 23.643 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	73	Resp	87267
Ion Ratio	100	Lower	Upper
73	100		
57	16.8	15.4	23.0

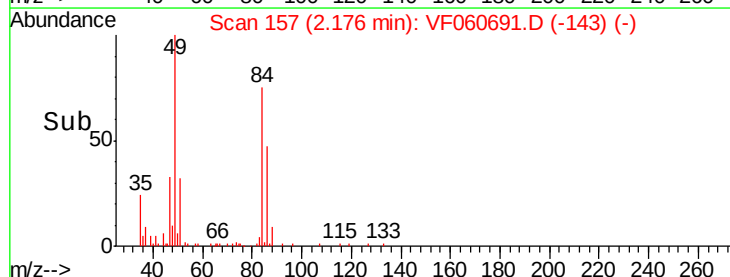
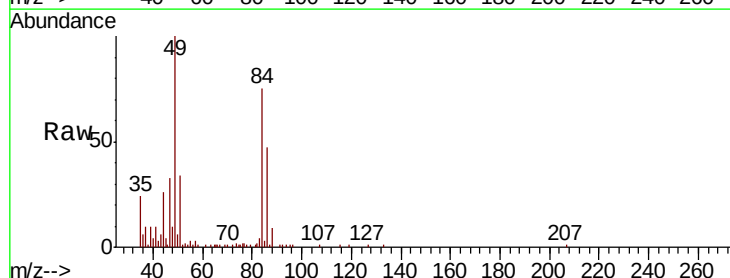
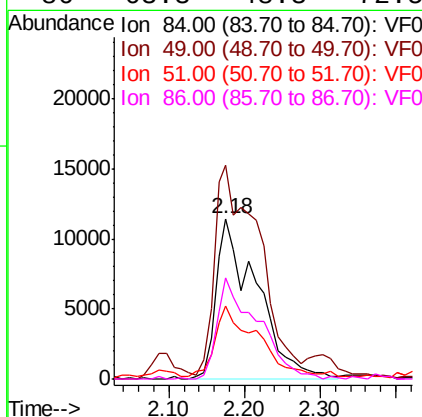
Manual Integrations
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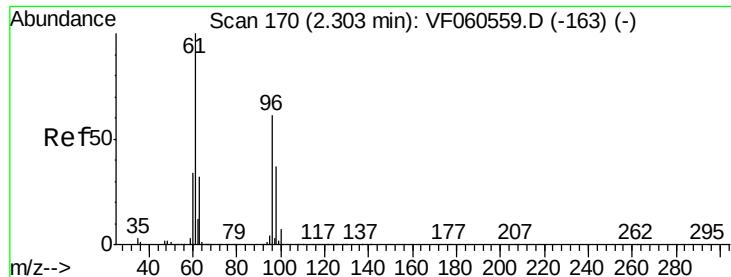
MMDadoda
11/13/2018 2:11:04 PM



#20
Methylene Chloride
Concen: 25.276 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	84	Resp	42926
Ion Ratio	100	Lower	Upper
84	100		
49	133.5	109.9	164.9
51	45.4	35.8	53.8
86	63.3	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 23.305 ug/l

RT: 2.30 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

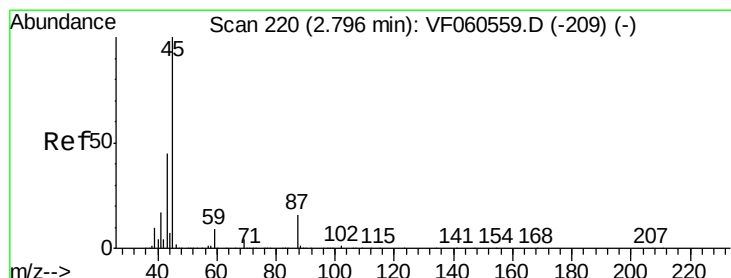
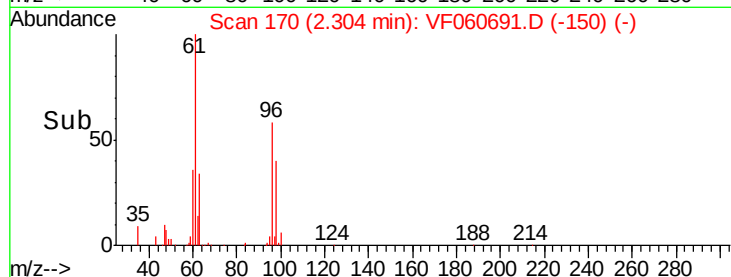
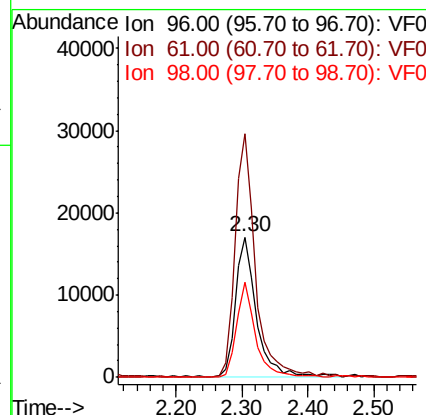
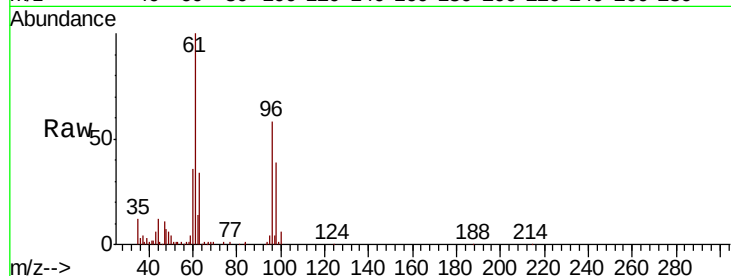
ClientSampleId :

VF1112SBS01

Tot Ion:	96	Resp:	38605
Ion	Ratio	Lower	Upper
96	100		
61	173.3	131.3	196.9
98	67.8	48.6	73.0

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#22

Diisopropyl ether

Concen: 22.434 ug/l

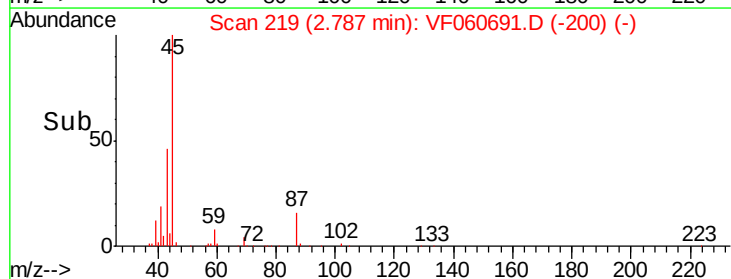
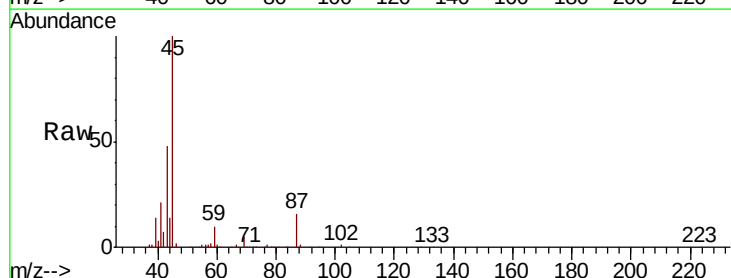
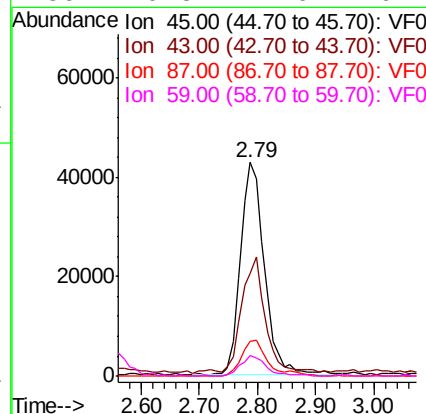
RT: 2.79 min Scan# 219

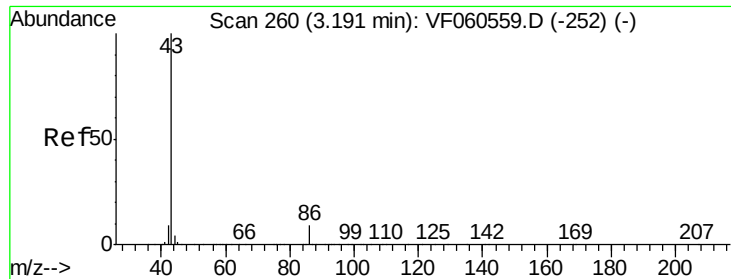
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	45	Resp:	122545
Ion	Ratio	Lower	Upper
45	100		
43	48.0	38.1	57.1
87	16.0	12.7	19.1
59	9.8	7.0	10.4





#23

Vinyl Acetate

Concen: 92.743 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 43 Resp: 304380

Ion Ratio Lower Upper

43 100

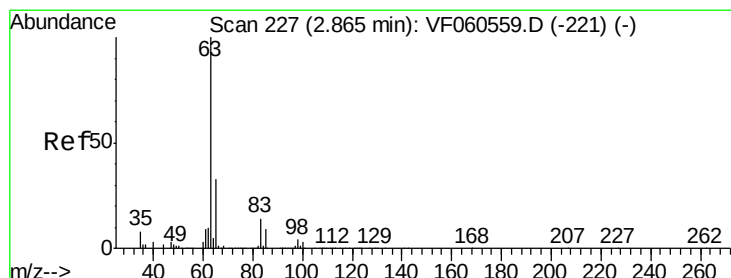
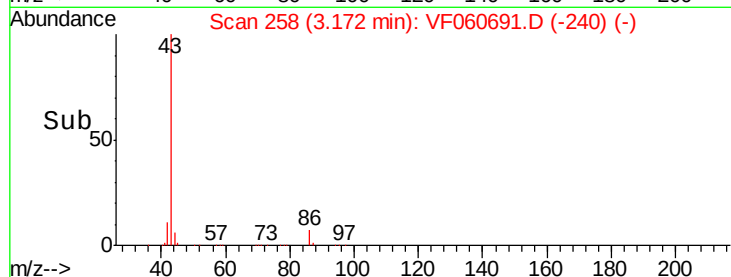
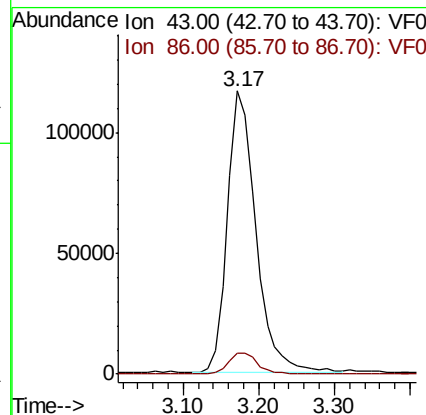
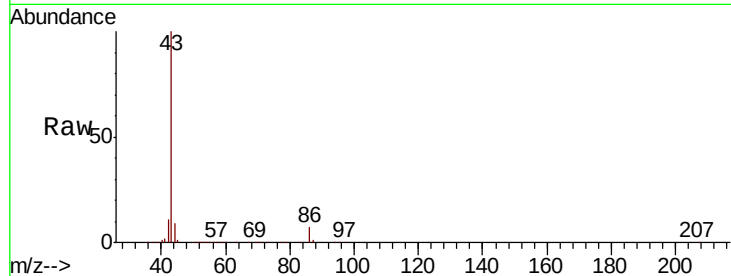
86 7.2 7.1 10.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 24.546 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

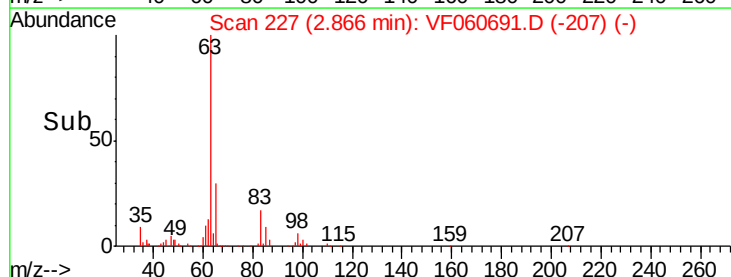
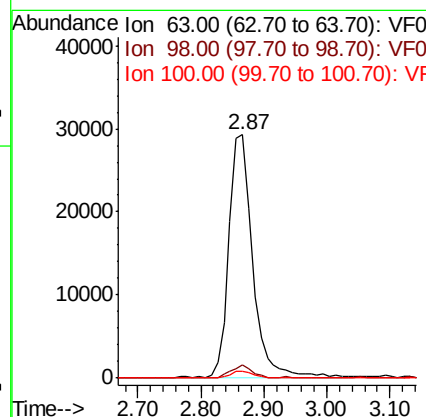
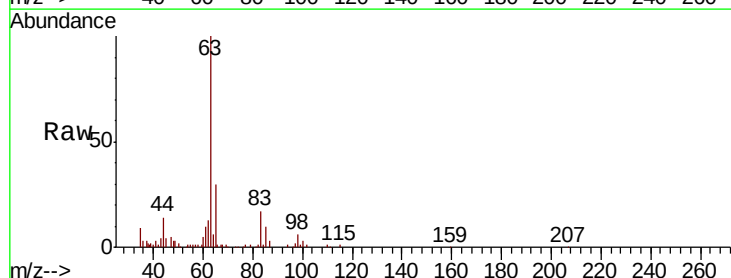
Tgt Ion: 63 Resp: 77596

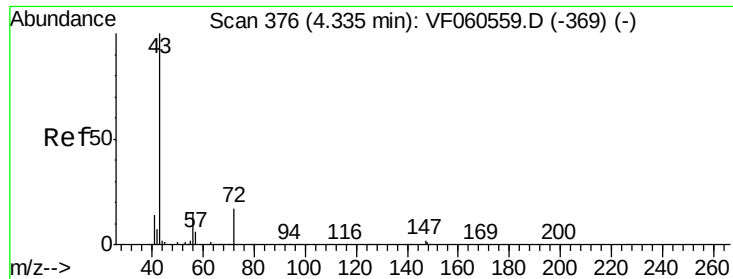
Ion Ratio Lower Upper

63 100

98 5.6 2.2 6.6

100 2.8 1.4 4.0





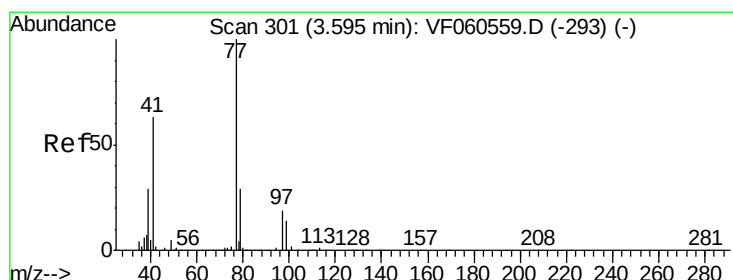
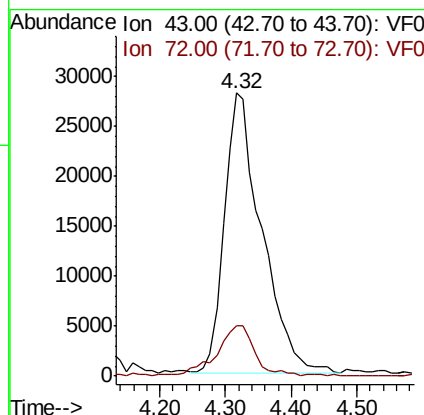
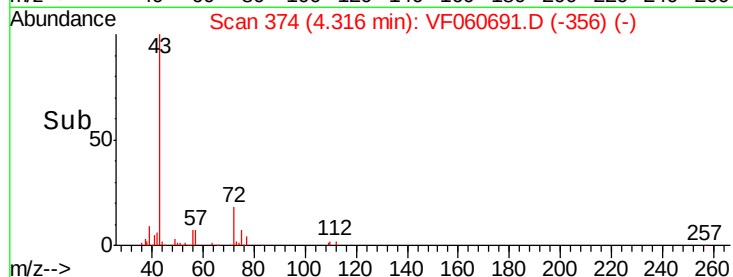
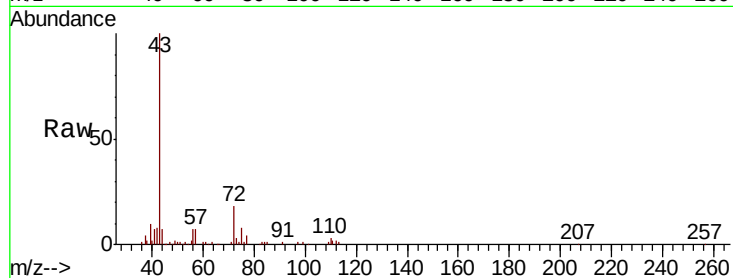
#25
2-Butanone
Concen: 93.976 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	17.6	16.2	24.2

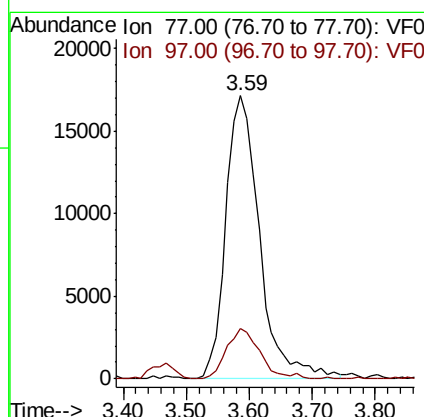
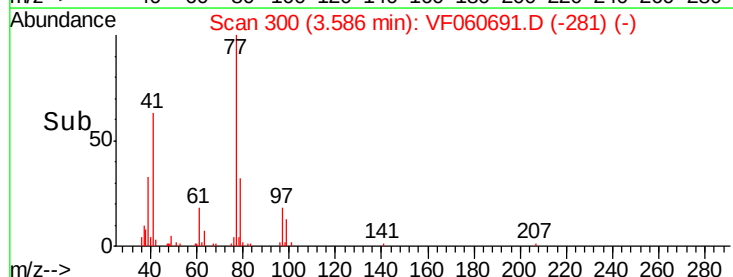
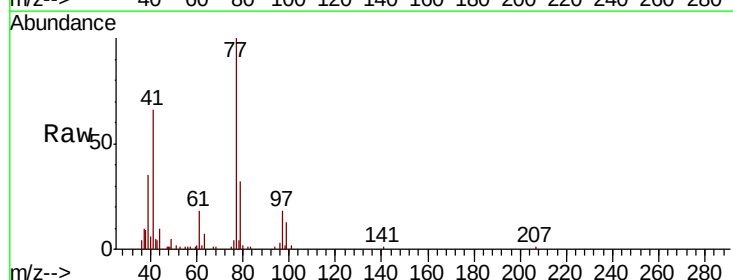
Manual Integrations
APPROVED

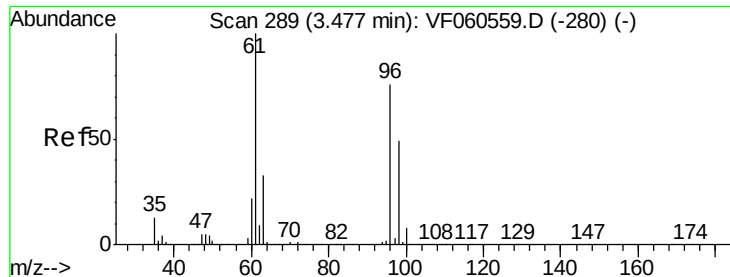
MMDadoda
11/13/2018 2:11:04 PM



#26
2,2-Dichloropropane
Concen: 27.048 ug/l
RT: 3.59 min Scan# 300
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
77	100		
97	17.7	9.8	29.3





#27

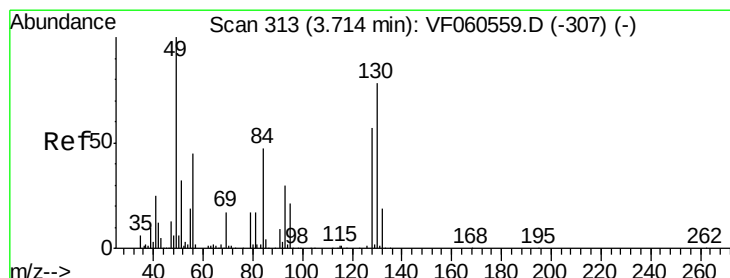
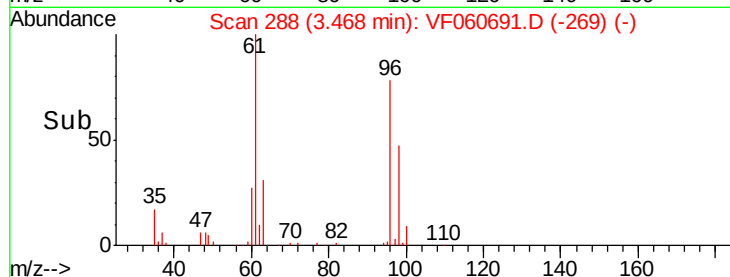
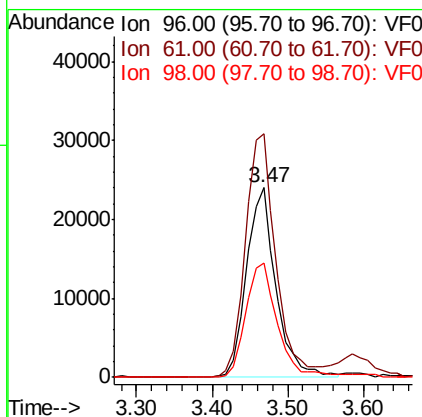
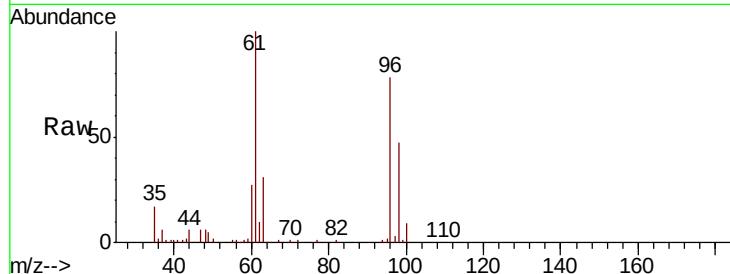
cis-1,2-Dichloroethene
Concen: 20.647 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	65292		
61	128.5		0.0	263.0
98	60.6		0.0	130.6

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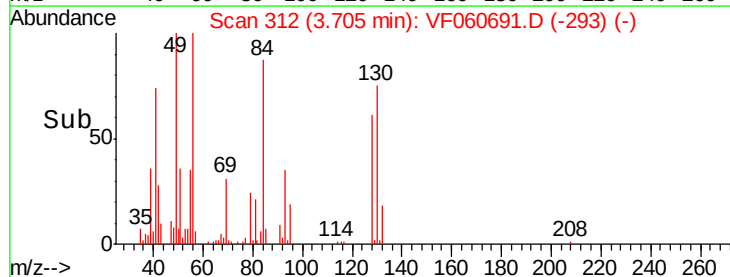
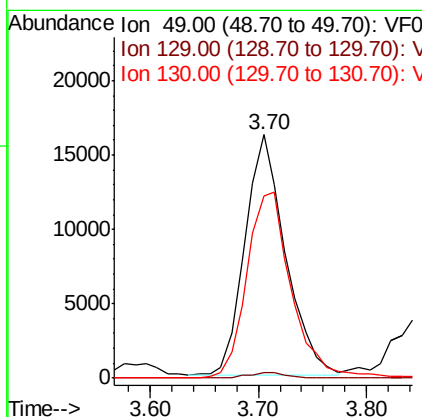
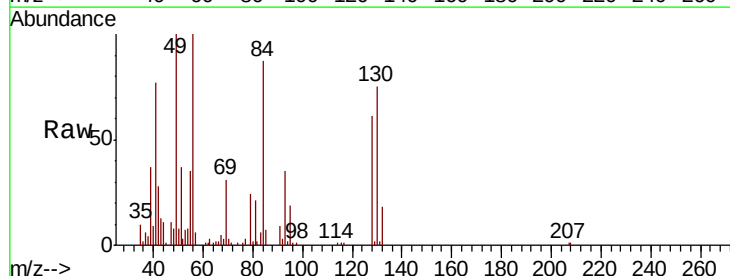
MMDadoda
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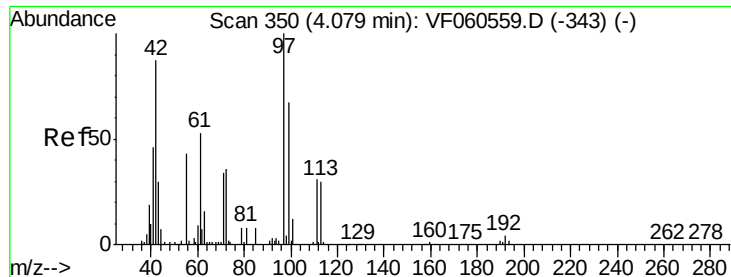


#28

Bromochloromethane
Concen: 21.434 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	42524		
129	2.4		0.0	4.6
130	74.8		61.8	92.8





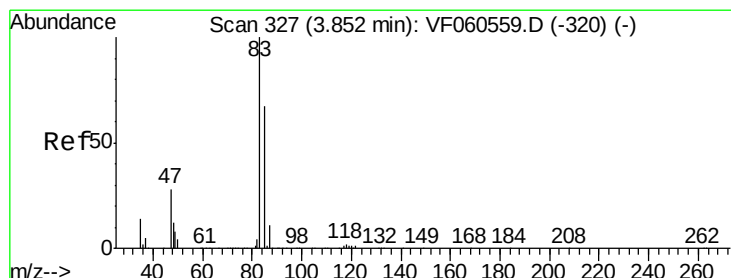
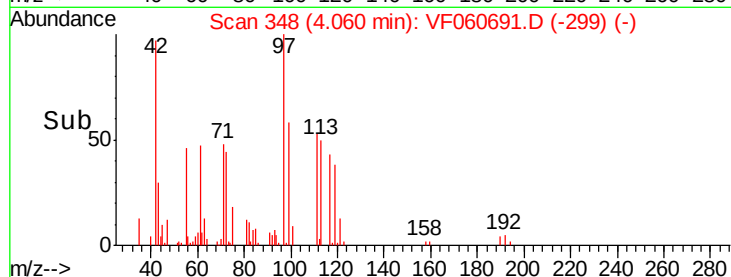
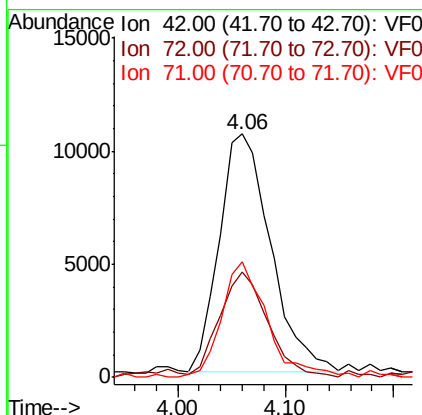
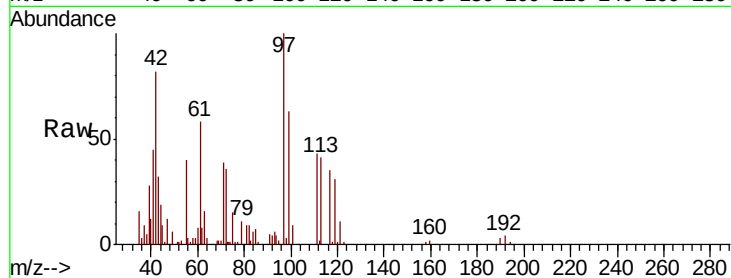
#29
Tetrahydrofuran
Concen: 83.739 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	31.4	47.0
71	42.8	31.8	47.6

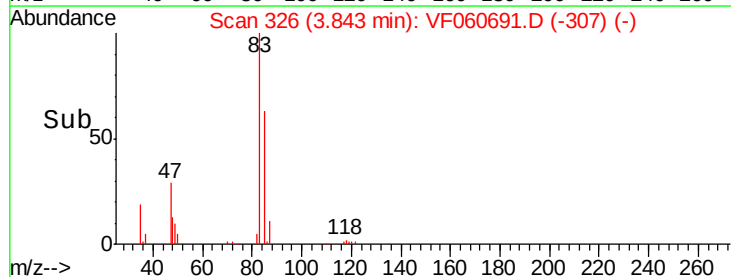
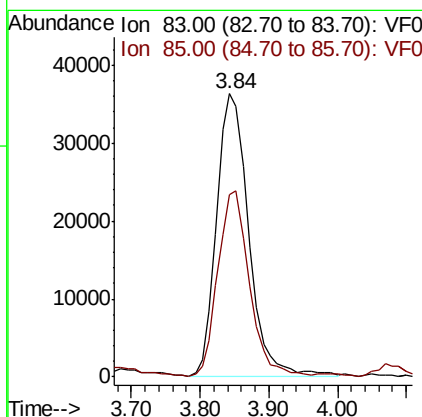
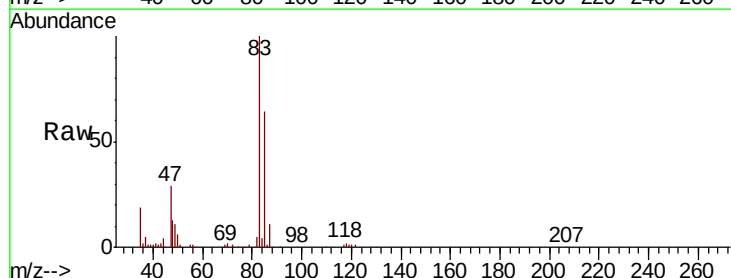
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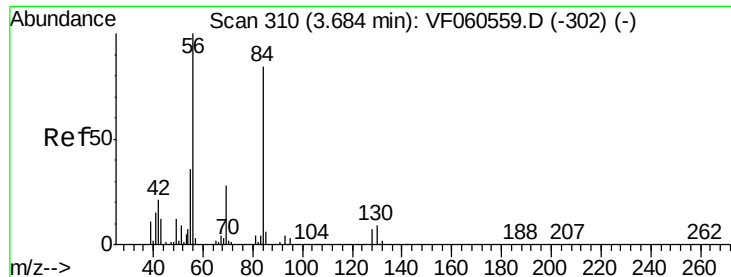
MMDadoda
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#30
Chloroform
Concen: 23.339 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.7	80.5





#31

Cyclohexane

Concen: 20.939 ug/l

RT: 3.68 min Scan# 310

Delta R.T. 0.00 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

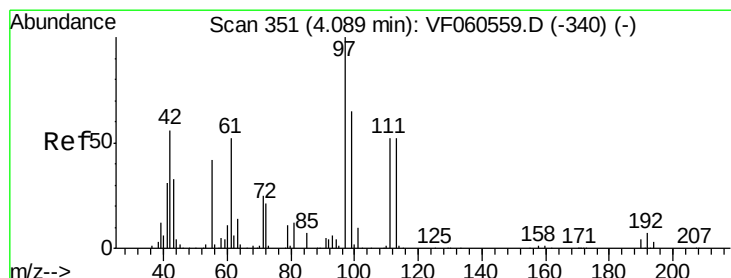
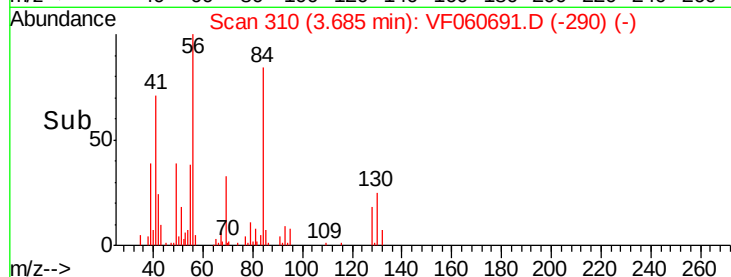
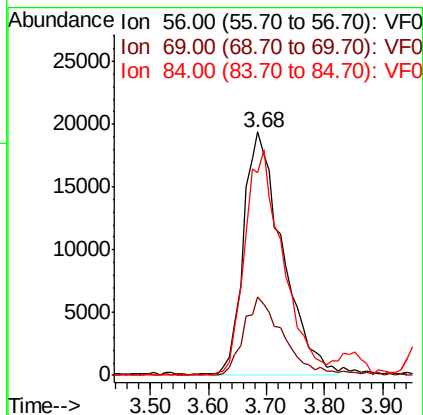
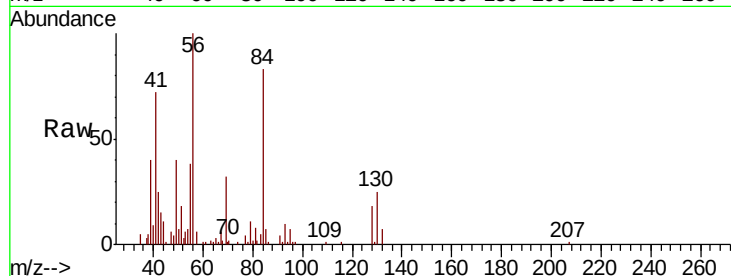
ClientSampleId :

VF1112SBS01

Tot Ion:	56	Resp:	91346
Ion Ratio	Lower	Upper	
56	100		
69	32.5	23.0	34.4
84	83.1	67.1	100.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 28.829 ug/l

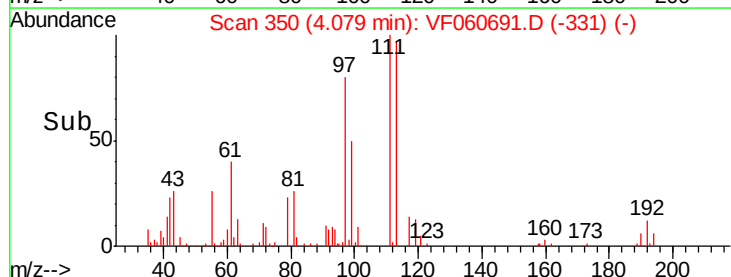
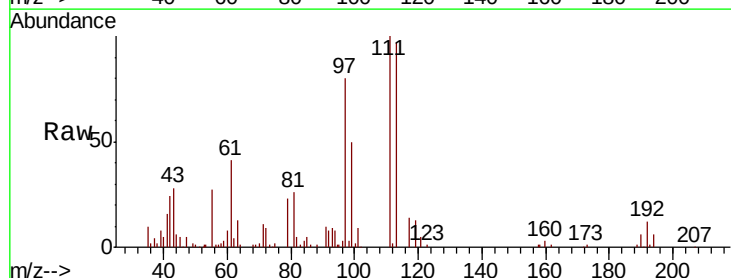
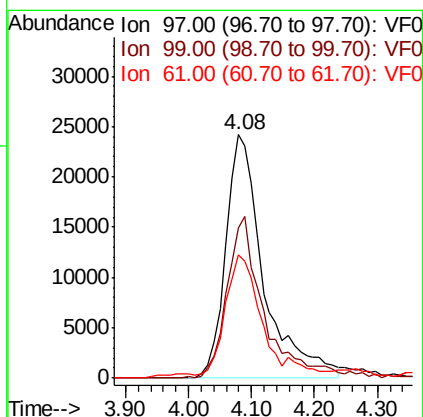
RT: 4.08 min Scan# 350

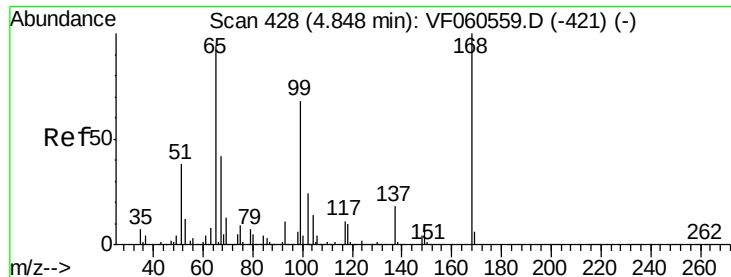
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	97	Resp:	100704
Ion Ratio	Lower	Upper	
97	100		
99	61.7	52.4	78.6
61	50.5	41.5	62.3





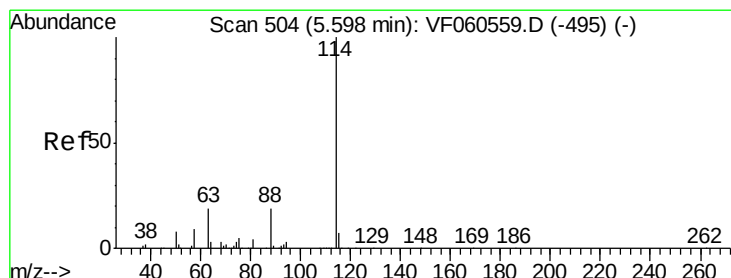
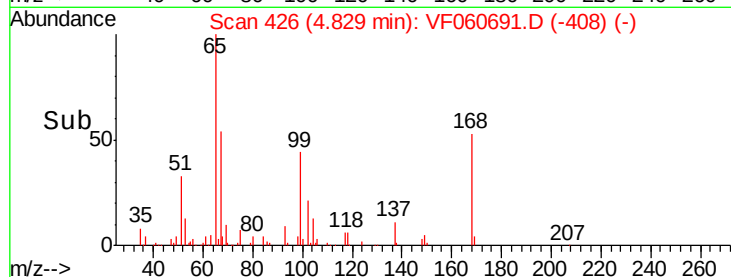
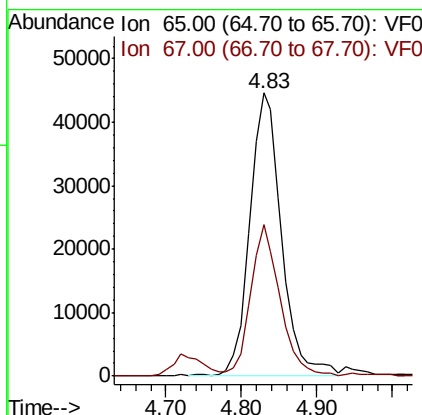
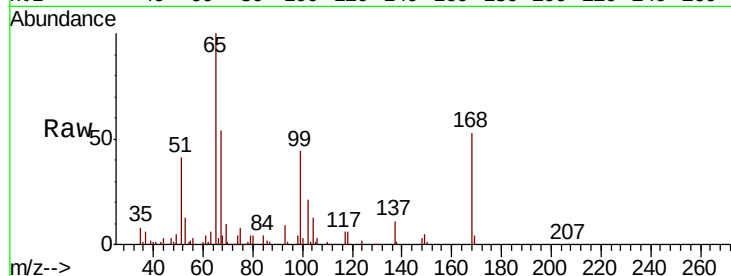
#33
 1,2-Dichloroethane-d4
 Concen: 59.498 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	101.8

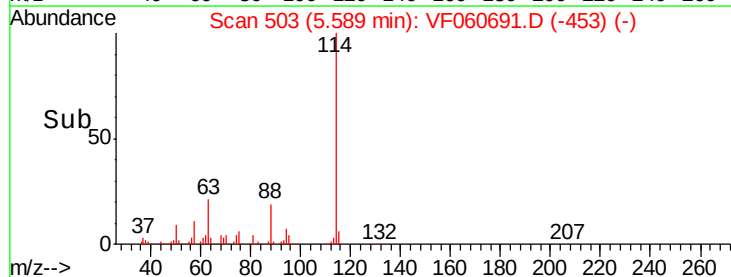
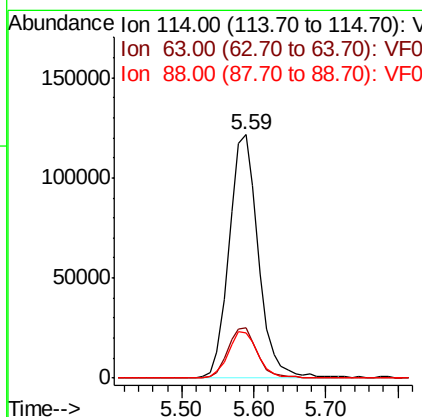
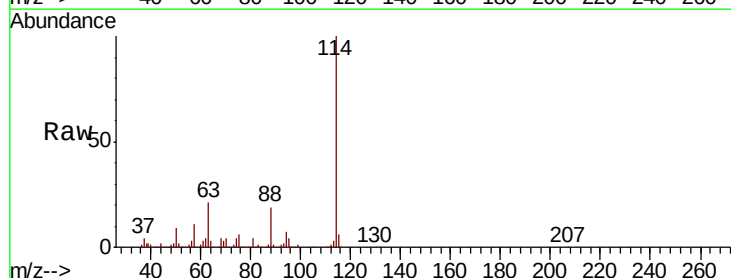
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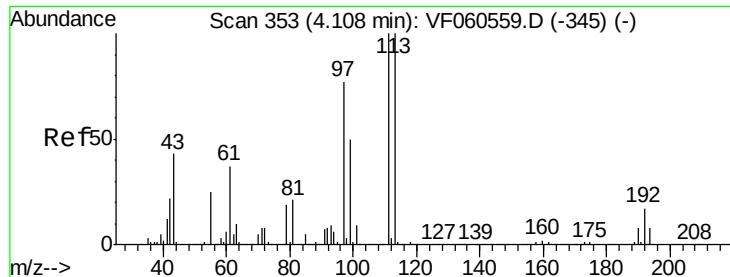
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	39.0
88	18.6	0.0	38.2





#35

Dibromofluoromethane

Concen: 55.723 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

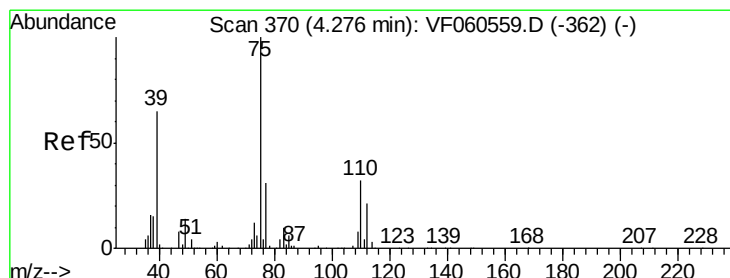
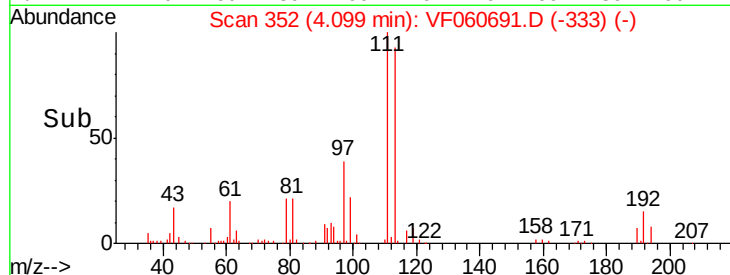
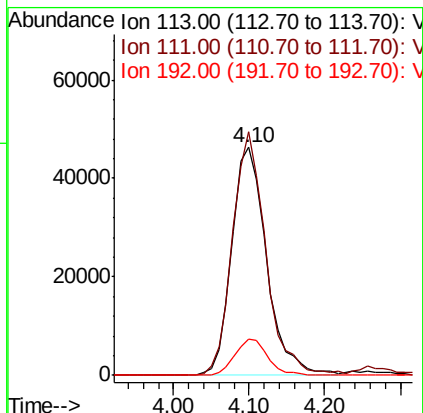
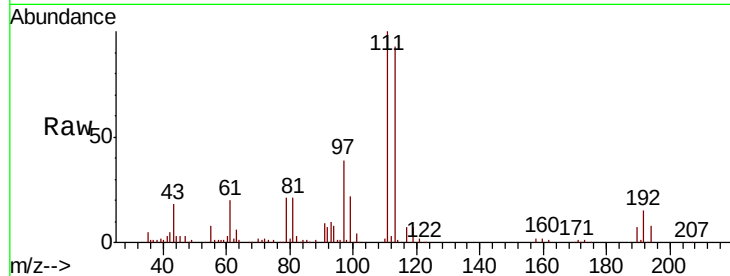
ClientSampleId :

VF1112SBS01

Tot Ion:	113	Resp:	148104
Ion Ratio	Lower	Upper	
113	100		
111	107.0	79.9	119.9
192	16.2	13.3	19.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 23.735 ug/l

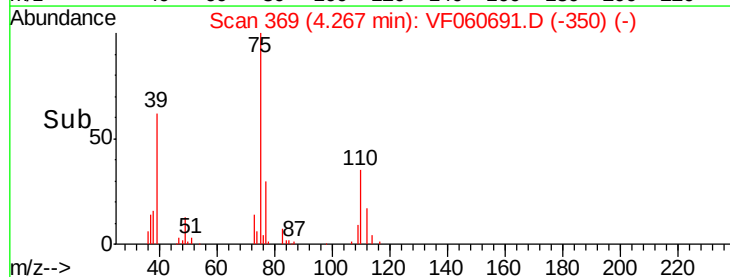
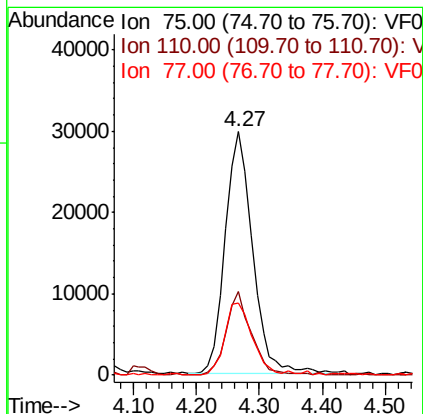
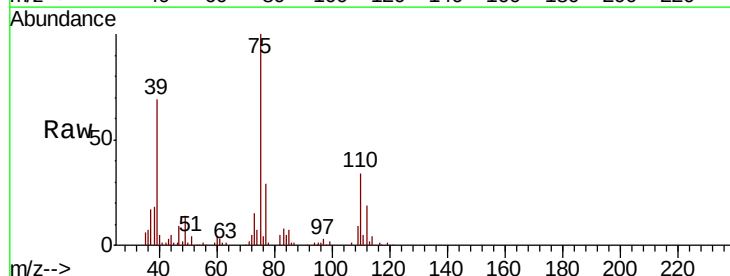
RT: 4.27 min Scan# 369

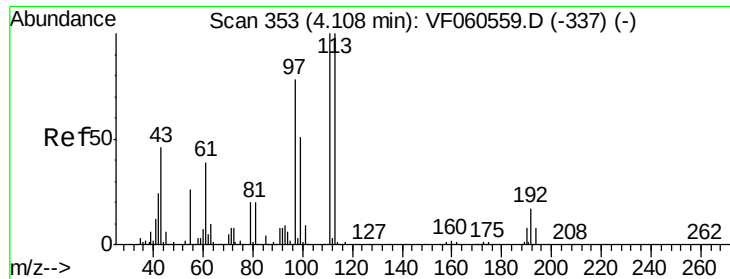
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	75	Resp:	89904
Ion Ratio	Lower	Upper	
75	100		
110	34.1	16.2	48.6
77	29.4	25.0	37.6





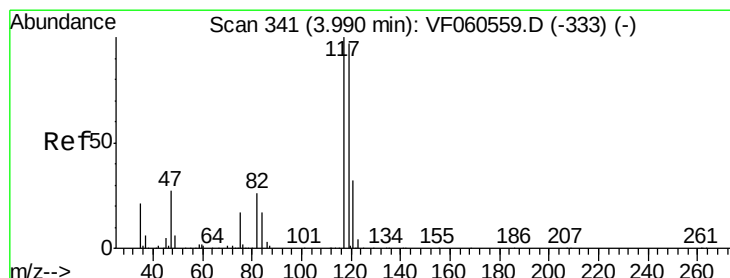
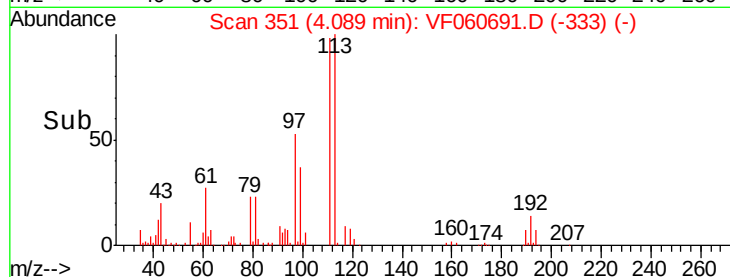
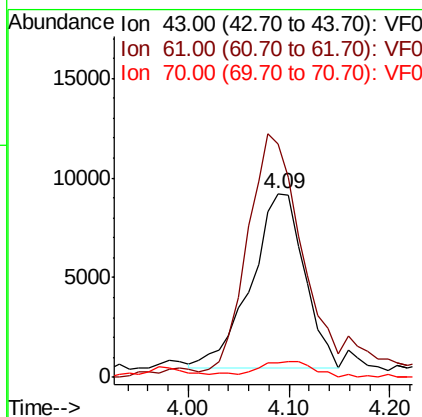
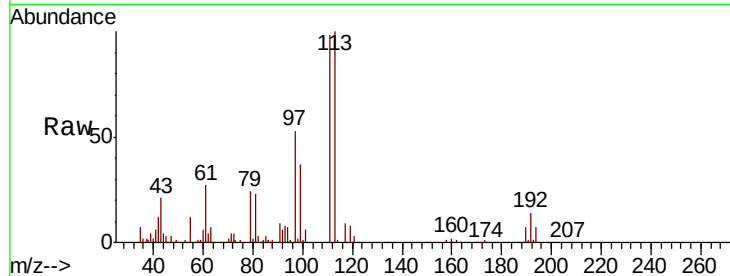
#37
Ethyl Acetate
Concen: 17.728 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper	Resp
43	100						32236
61	126.7				63.4	95.2	#
70	7.6				9.3	13.9	#

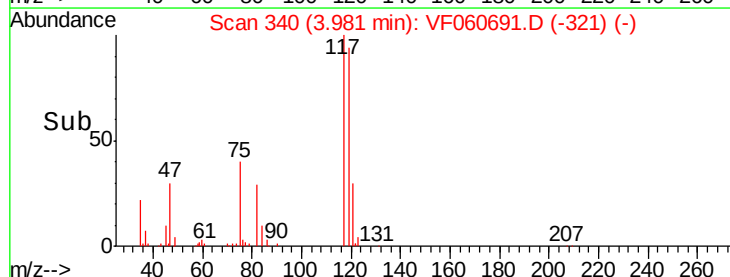
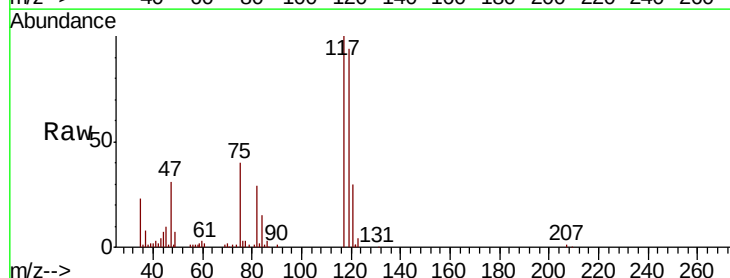
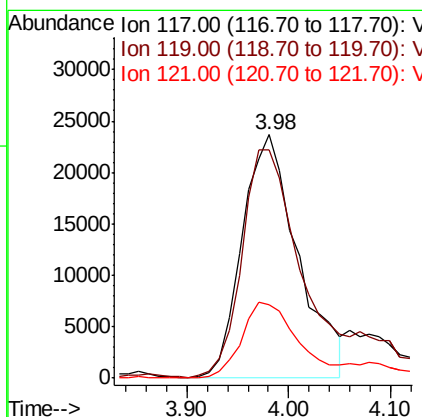
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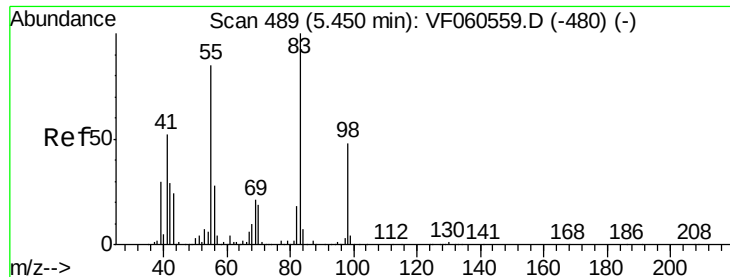
MMDadoda
11/13/2018 2:11:04 PM



#38
Carbon Tetrachloride
Concen: 27.946 ug/l m
RT: 3.98 min Scan# 340
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	117	119	121	Ratio	Lower	Upper	Resp
117	100						90455
119	93.9				77.8	116.6	
121	29.9				25.6	38.4	





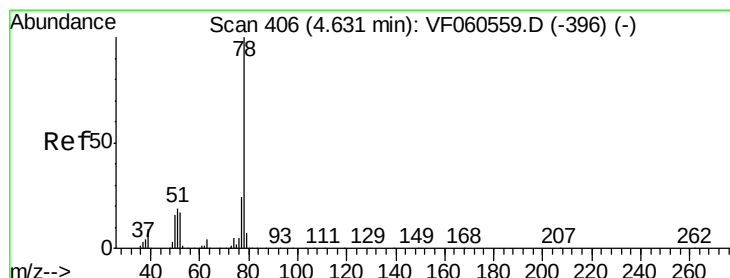
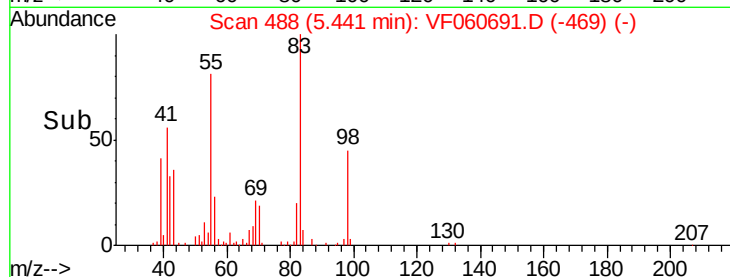
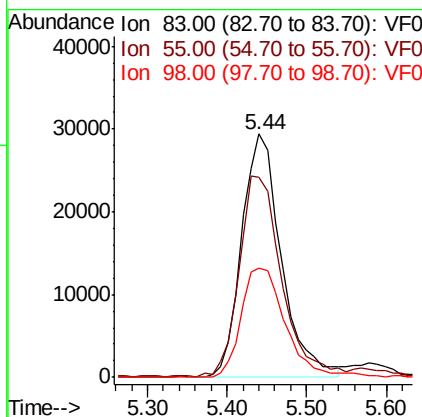
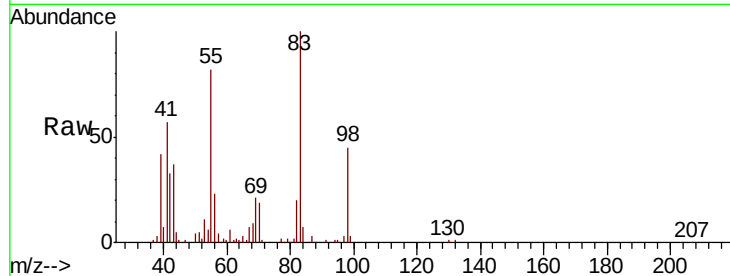
#39
Methylvlcyclohexane
Concen: 21.942 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.0	69.1	103.7
98	45.1	38.6	57.8

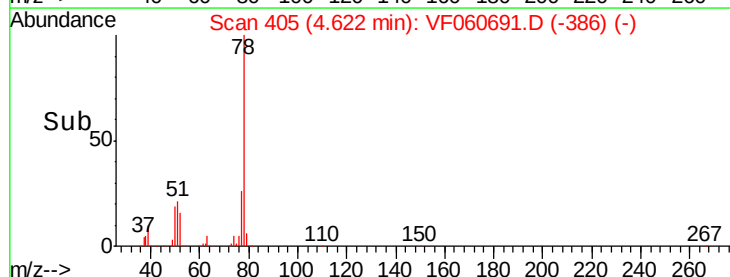
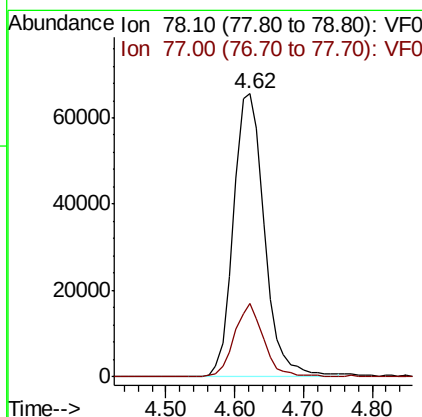
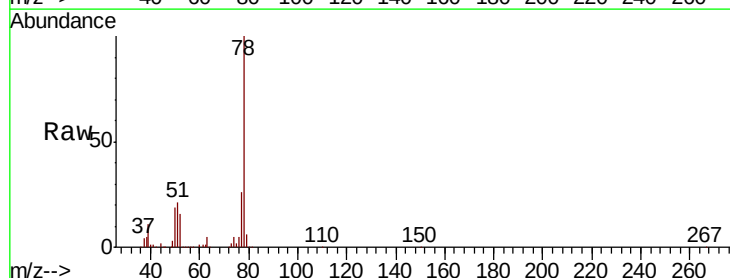
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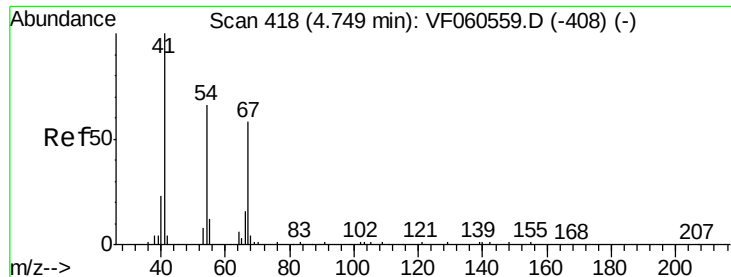
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#40
Benzene
Concen: 22.243 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.1	19.3	28.9





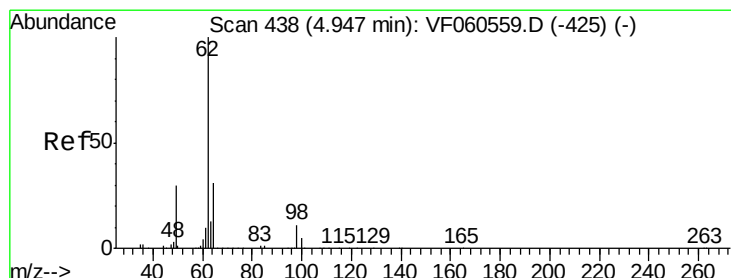
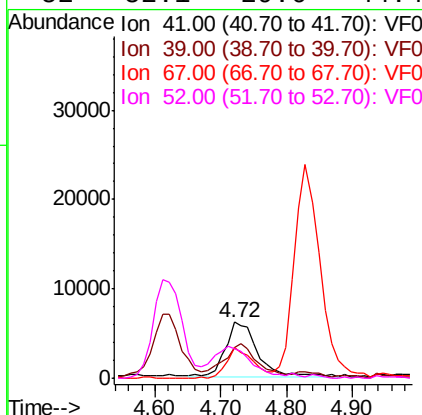
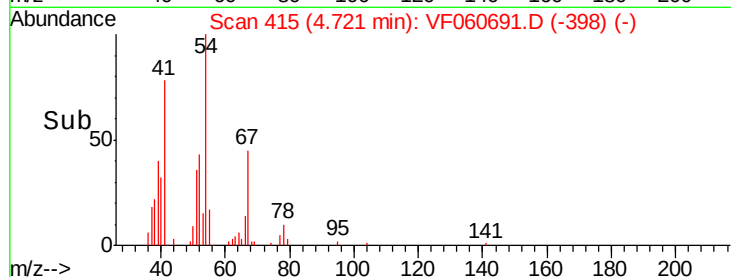
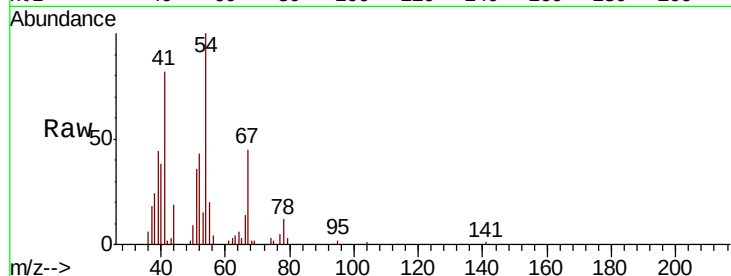
#41
Methacrylonitrile
Concen: 20.691 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ion	Ratio	Lower	Upper
21306	41	100		
	39	54.4	45.6	68.4
	67	55.2	45.3	67.9
	52	52.1	29.6	44.4

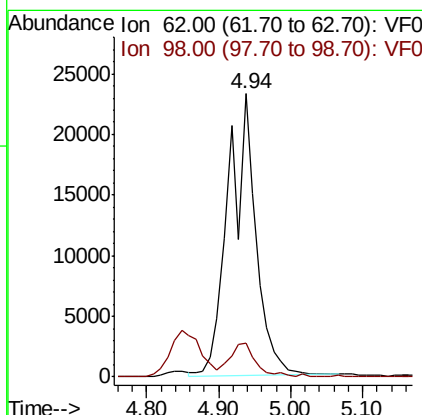
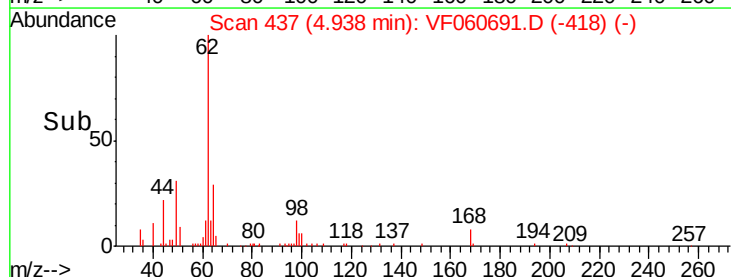
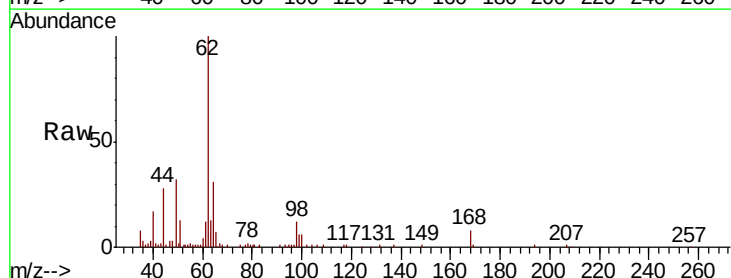
Manual Integrations
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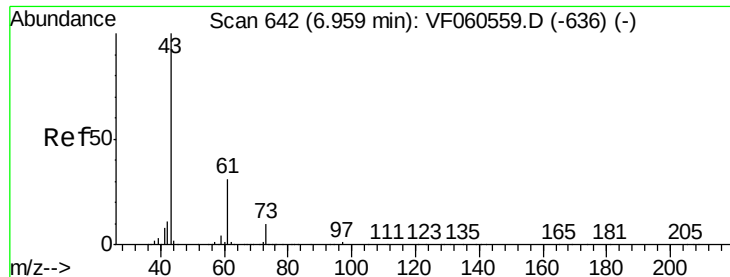
MMDadoda
11/13/2018 2:11:04 PM



#42
1,2-Dichloroethane
Concen: 23.359 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ion	Ratio	Lower	Upper
61642	62	100		
	98	12.0	0.0	22.4





#43

Isopropyl Acetate

Concen: 18.812 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

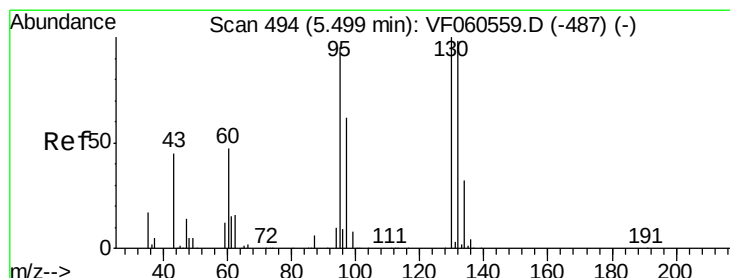
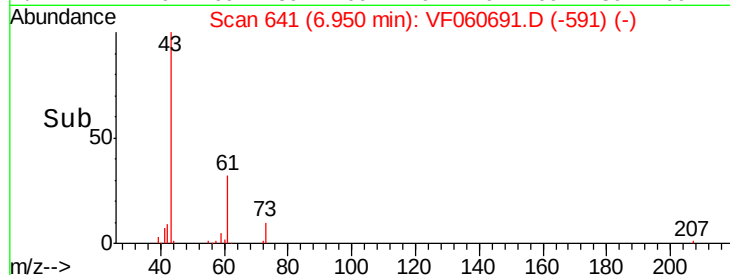
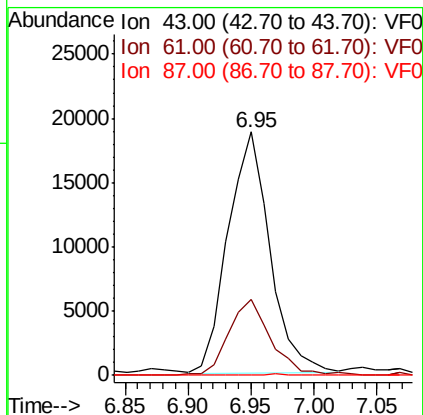
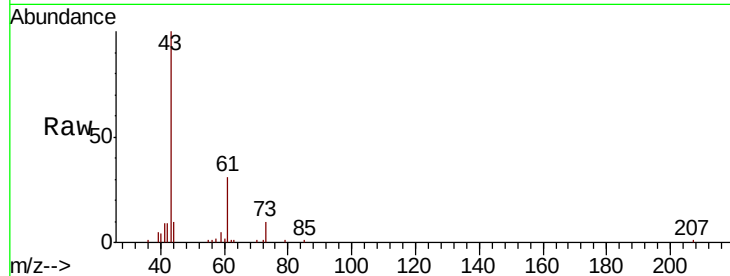
ClientSampleId :

VF1112SBS01

Tot Ion:	43	Resp:	43269
Ion	Ratio	Lower	Upper
43	100		
61	30.9	24.2	36.2
87	0.0	0.2	0.4#

Manual Integrations
APPROVED

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11/13/2018 2:11:04 PM



#44

Trichloroethene

Concen: 22.992 ug/l

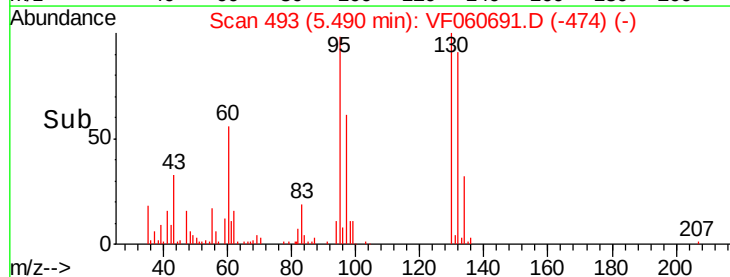
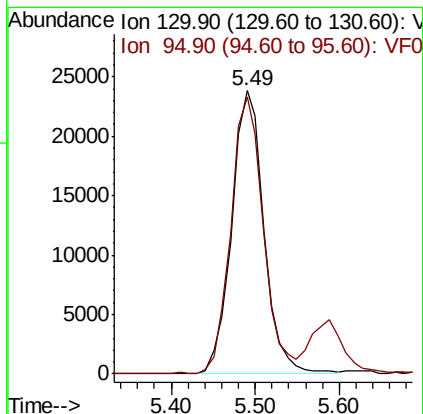
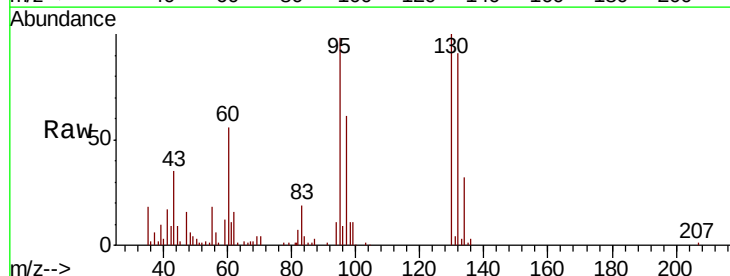
RT: 5.49 min Scan# 493

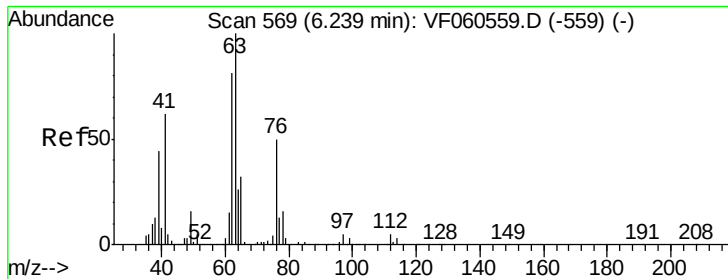
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	130	Resp:	63535
Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	191.0





#45

1,2-Dichloropropane

Concen: 22.621 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 63 Resp: 53195

Ion Ratio Lower Upper

63 100

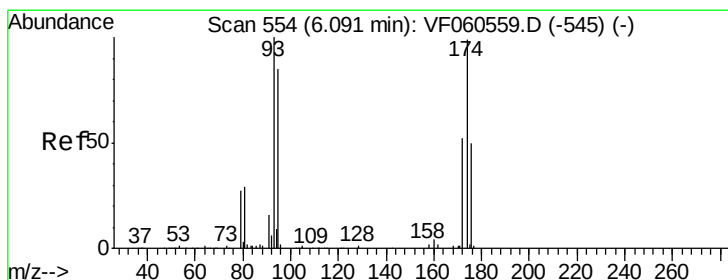
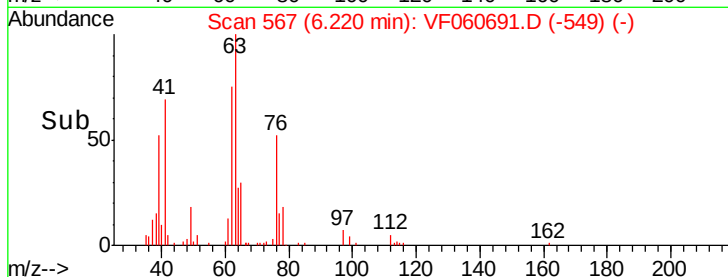
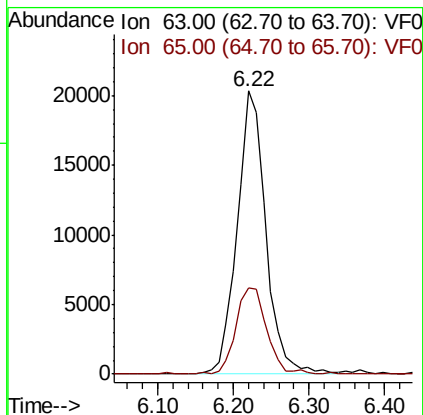
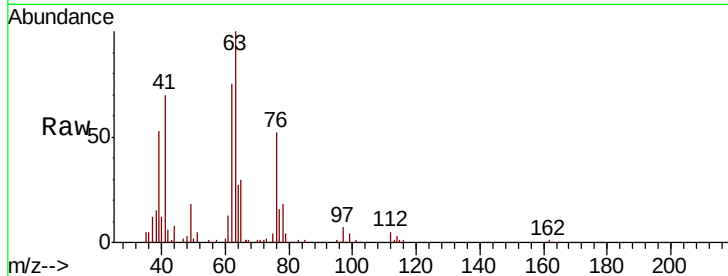
65 30.4 25.4 38.0

Manual Integrations

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#46

Dibromomethane

Concen: 22.768 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

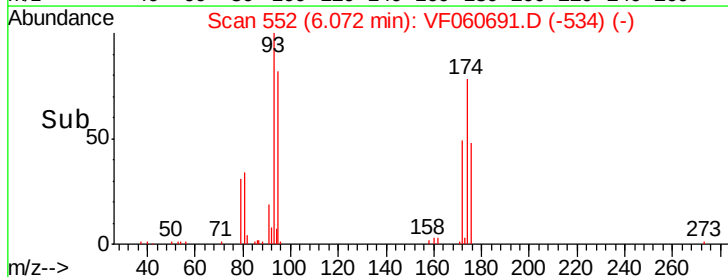
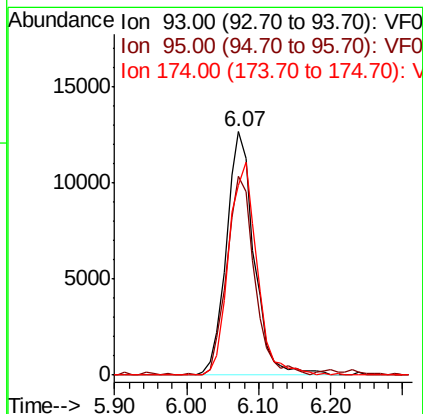
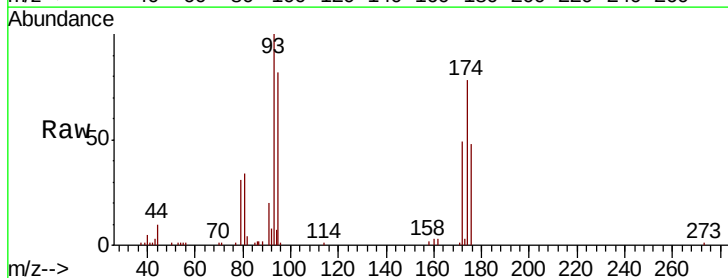
Tgt Ion: 93 Resp: 33966

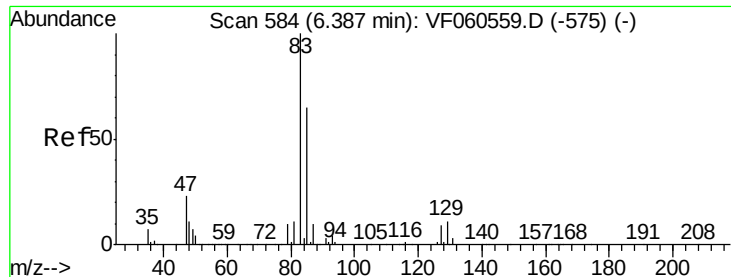
Ion Ratio Lower Upper

93 100

95 81.6 68.6 102.8

174 78.1 79.0 118.4#





#47

Bromodichloromethane

Concen: 23.988 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

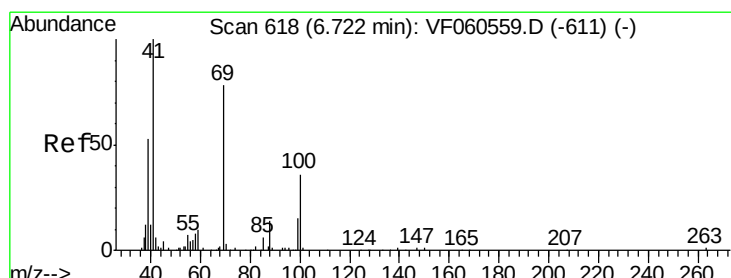
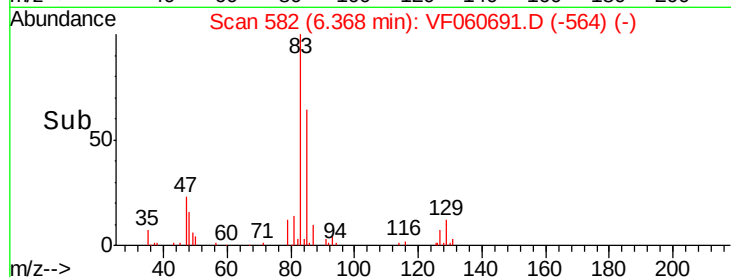
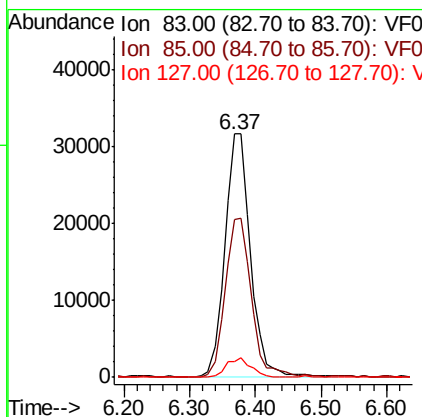
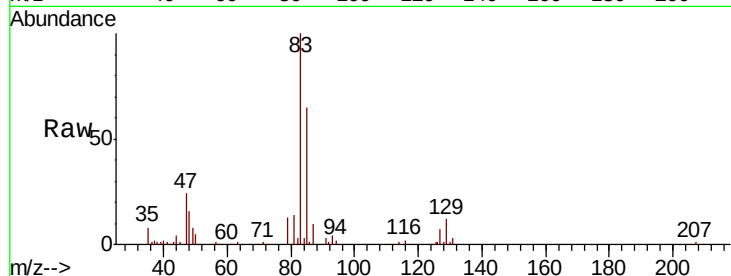
ClientSampleId :

VF1112SBS01

Tot Ion:	83	Resp:	86315
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.6
127	6.6	7.0	10.4#

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.248 ug/l

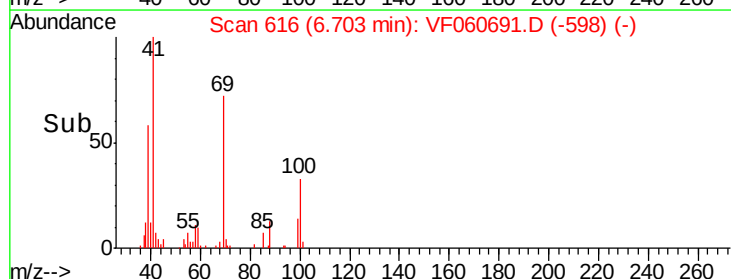
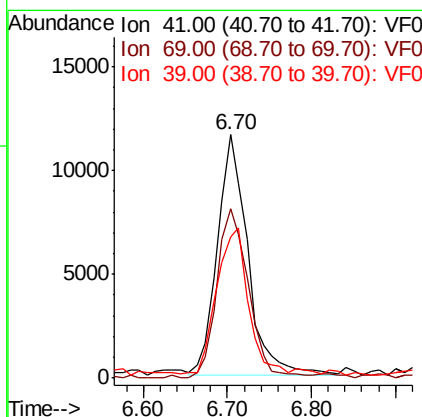
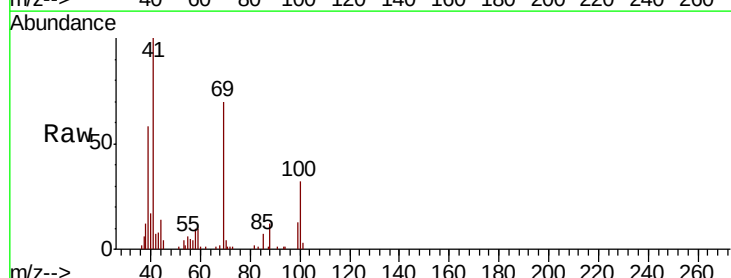
RT: 6.70 min Scan# 616

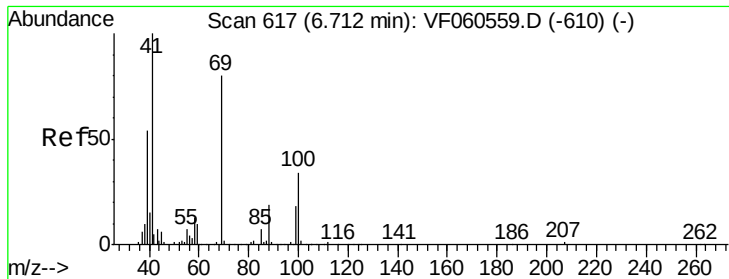
Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	41	Resp:	29269
Ion	Ratio	Lower	Upper
41	100		
69	69.6	61.1	91.7
39	58.0	43.0	64.6





#49

1,4-Dioxane

Concen: 353.731 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.03 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

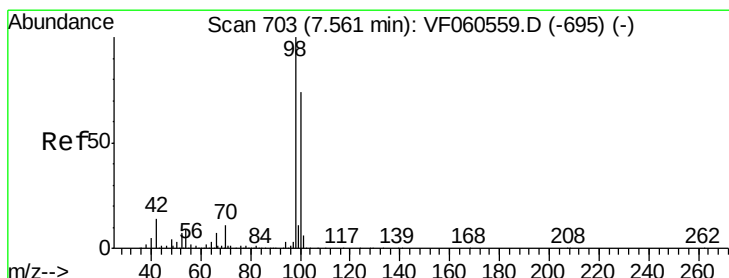
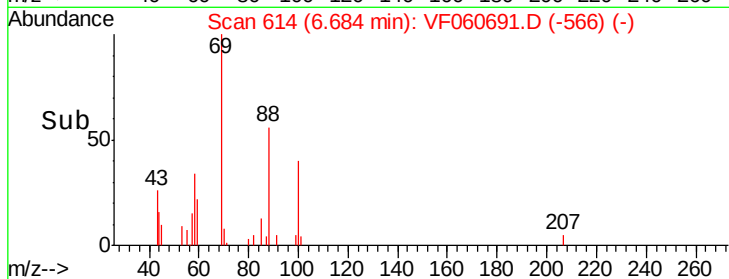
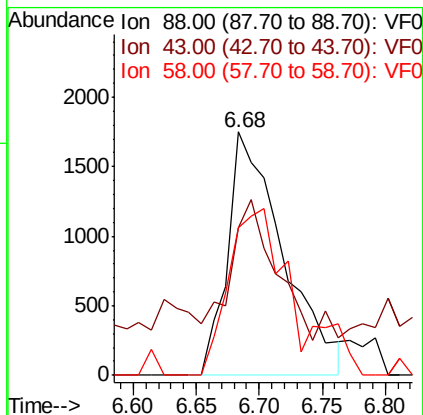
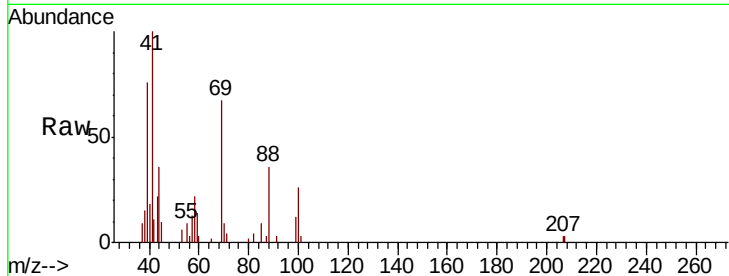
ClientSampleId :

VF1112SBS01

Tot Ion:	88	Resp:	5349
Ion	Ratio	Lower	Upper
88	100		
43	60.7	61.2	91.8#
58	60.7	56.9	85.3

Manual Integrations
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#50

Toluene-d8

Concen: 52.651 ug/l

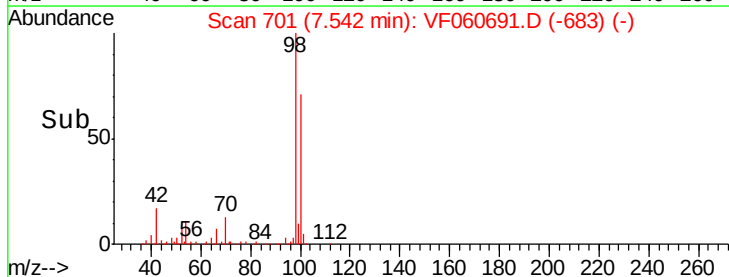
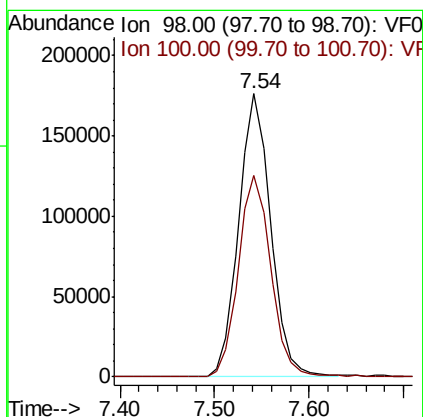
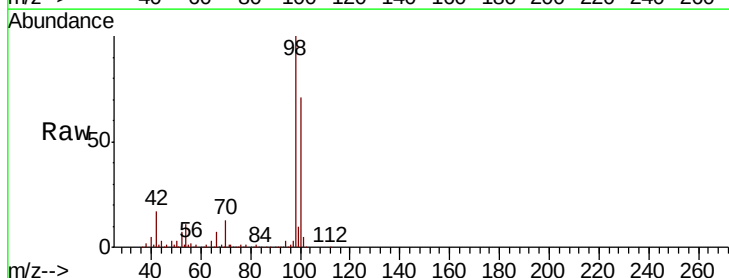
RT: 7.54 min Scan# 701

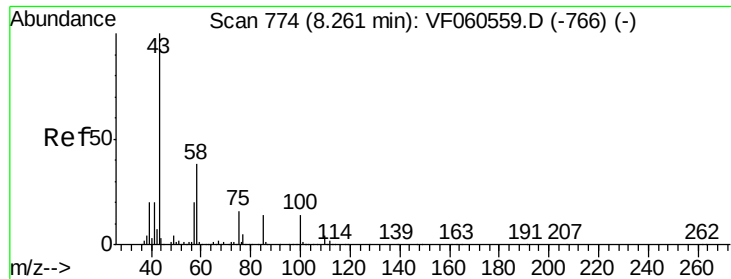
Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	98	Resp:	414545
Ion	Ratio	Lower	Upper
98	100		
100	71.0	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 101.814 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 43 Resp: 157474

Ion Ratio Lower Upper

43 100

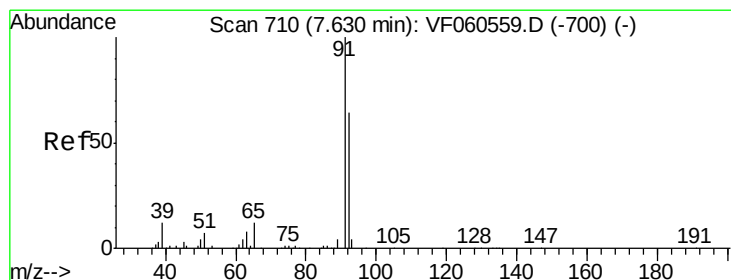
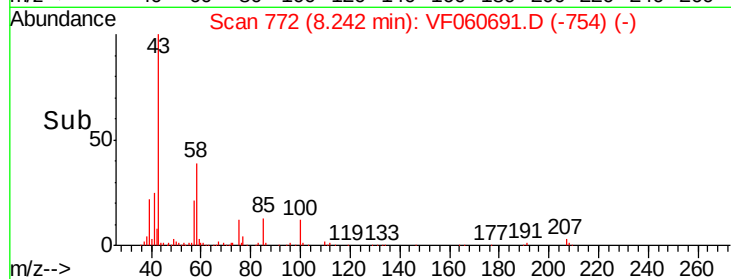
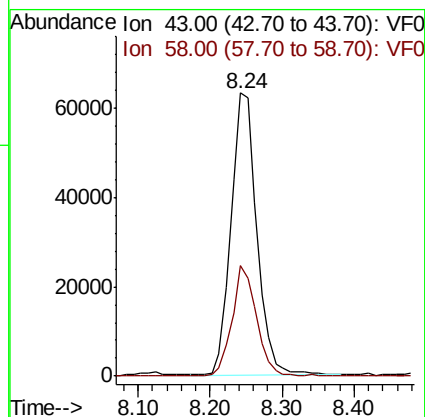
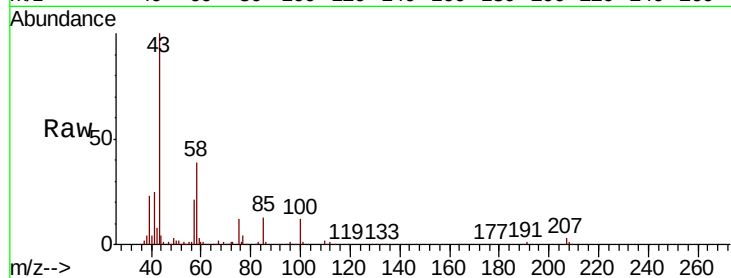
58 39.2 30.1 45.1

Manual Integrations

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#52

Toluene

Concen: 22.153 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060691.D

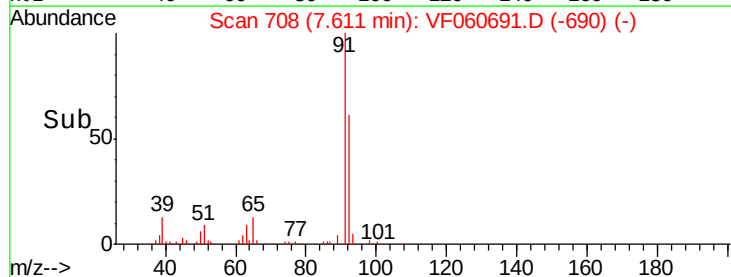
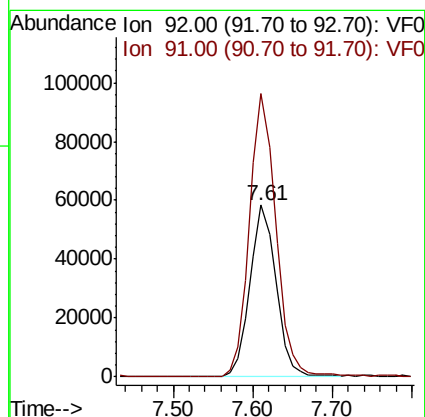
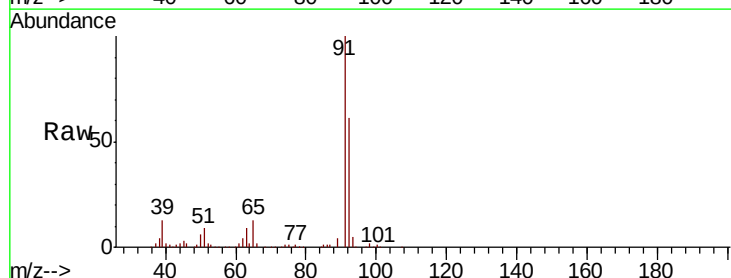
Acq: 12 Nov 2018 18:05

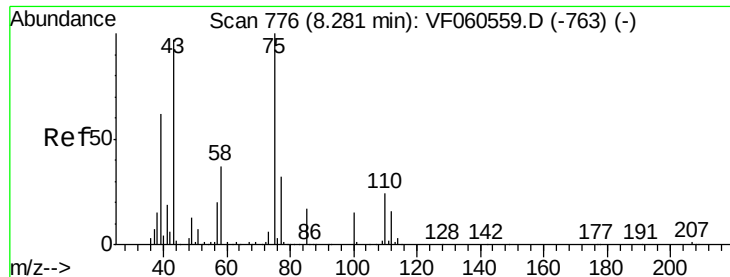
Tgt Ion: 92 Resp: 132682

Ion Ratio Lower Upper

92 100

91 164.7 124.5 186.7





#53

t-1,3-Dichloropropene

Concen: 22.163 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 75 Resp: 69312

Ion Ratio Lower Upper

75 100

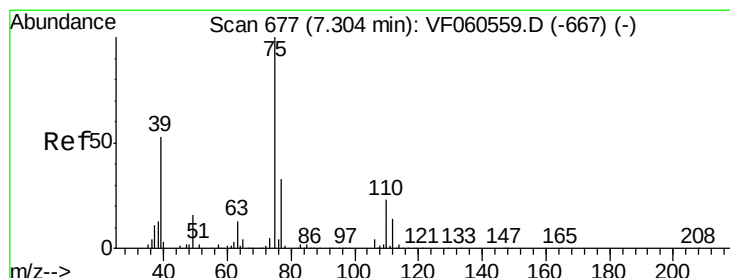
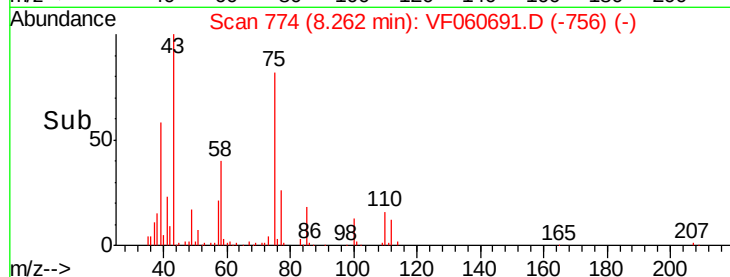
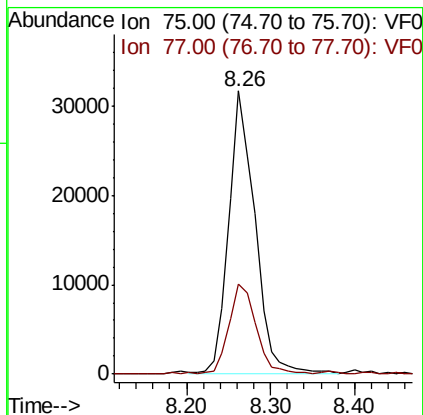
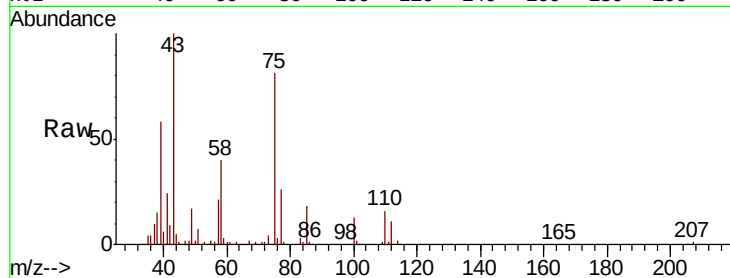
77 31.7 25.7 38.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 22.987 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

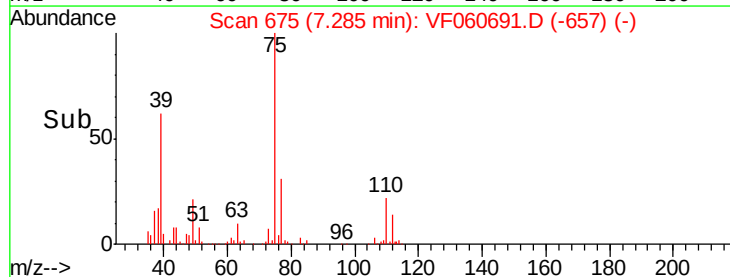
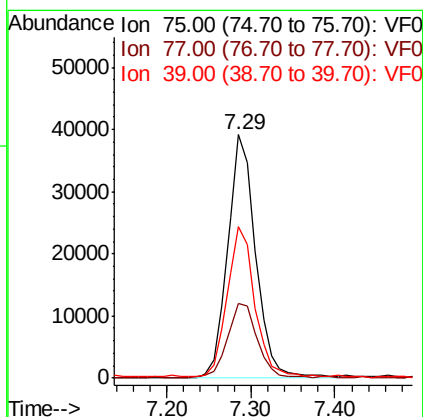
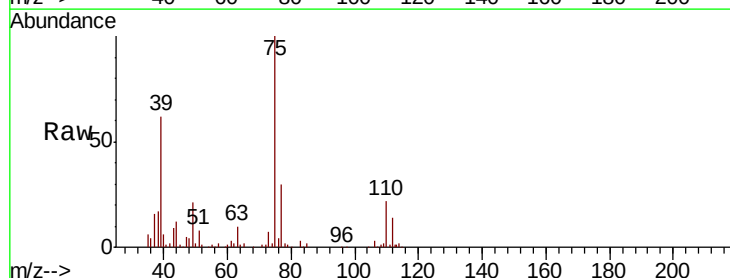
Tgt Ion: 75 Resp: 90832

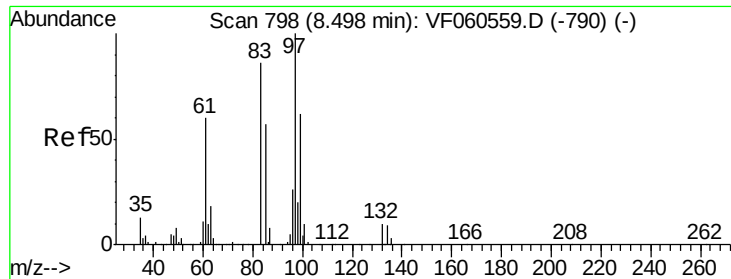
Ion Ratio Lower Upper

75 100

77 30.4 26.7 40.1

39 62.2 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 21.866 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

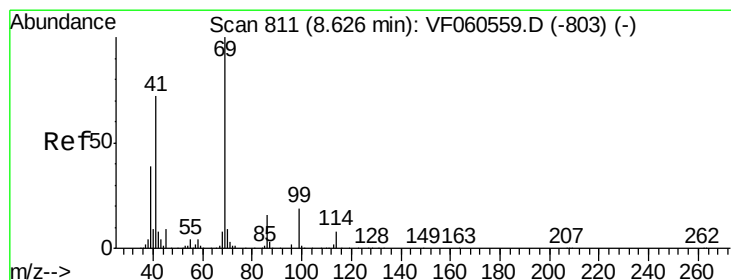
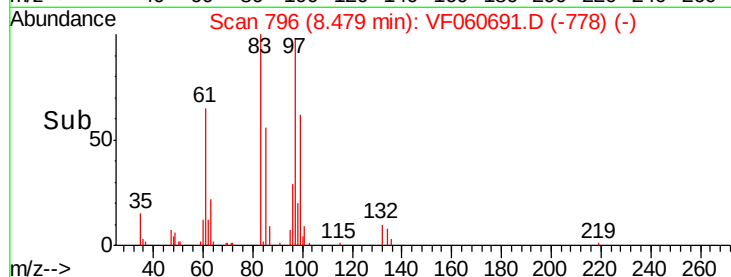
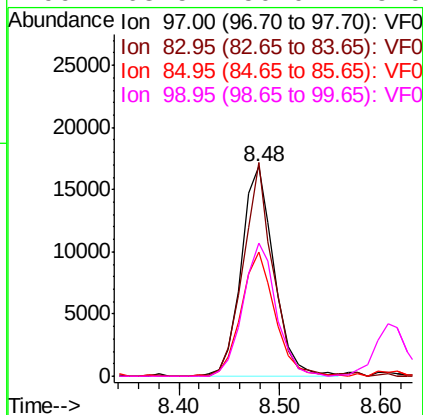
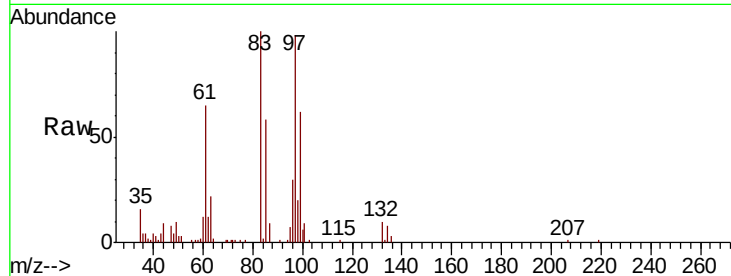
ClientSampleId :

VF1112SBS01

Tot Ion:	97	Resp:	38111
Ion Ratio	Lower	Upper	
97	100		
83	101.9	69.4	104.0
85	59.4	46.6	69.8
99	63.5	50.0	75.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.629 ug/l

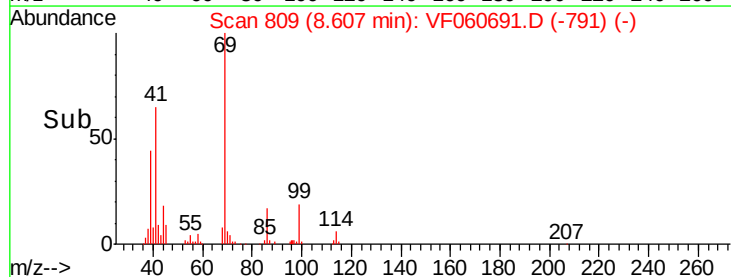
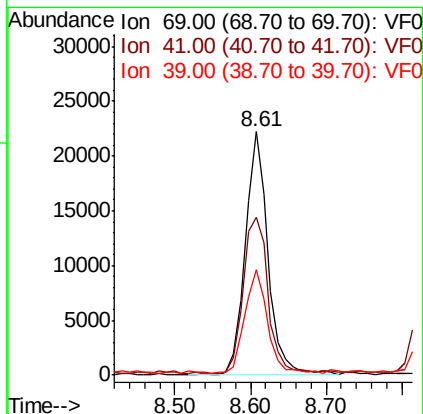
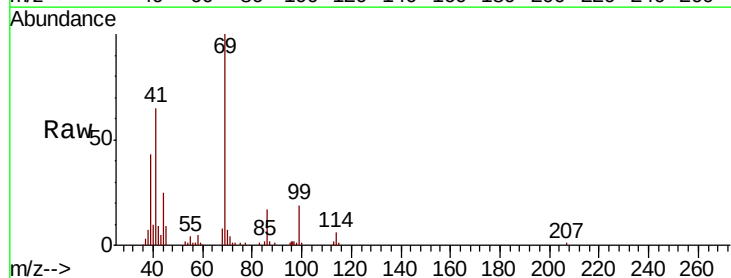
RT: 8.61 min Scan# 809

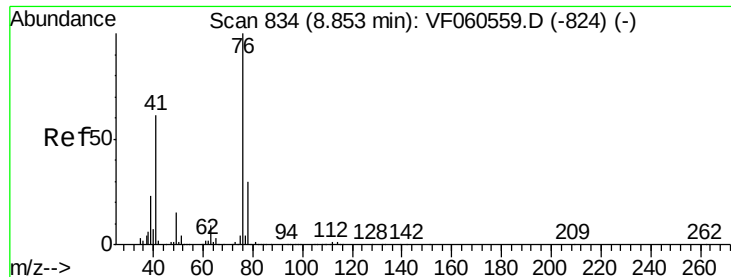
Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	69	Resp:	46258
Ion Ratio	Lower	Upper	
69	100		
41	65.1	59.2	88.8
39	43.4	32.3	48.5





#57

1,3-Dichloropropane

Concen: 23.599 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 76 Resp: 72171

Ion Ratio Lower Upper

76 100

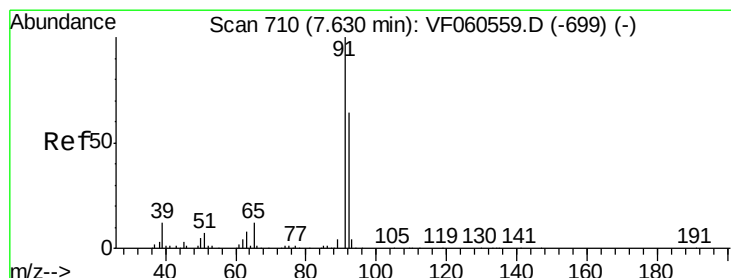
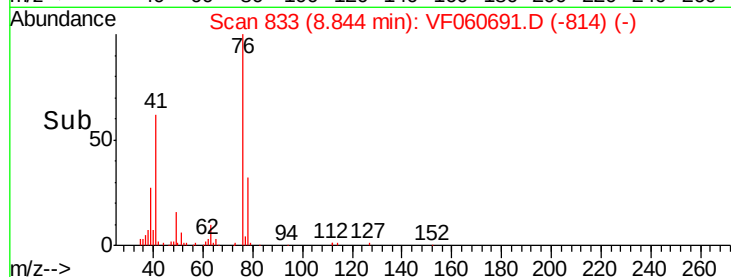
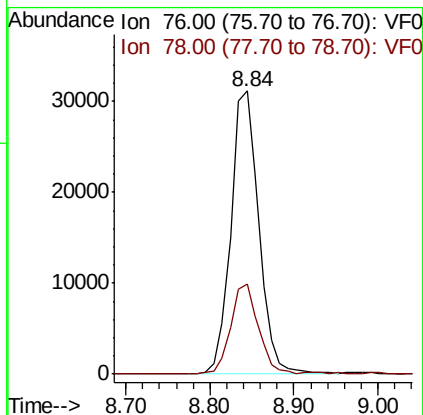
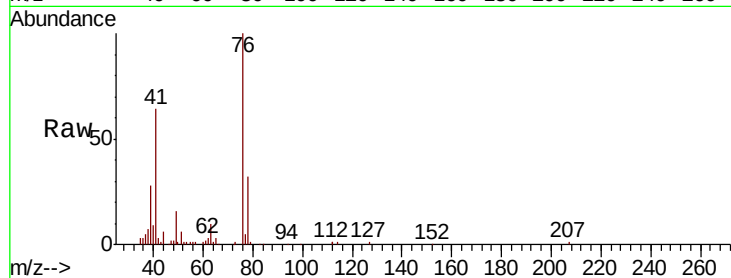
78 31.6 24.2 36.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 138.678 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060691.D

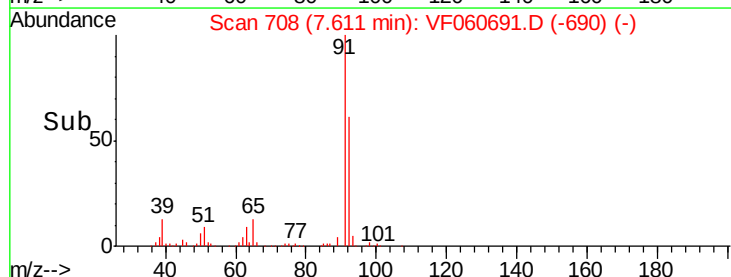
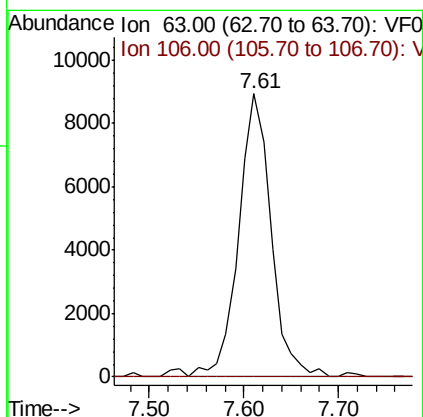
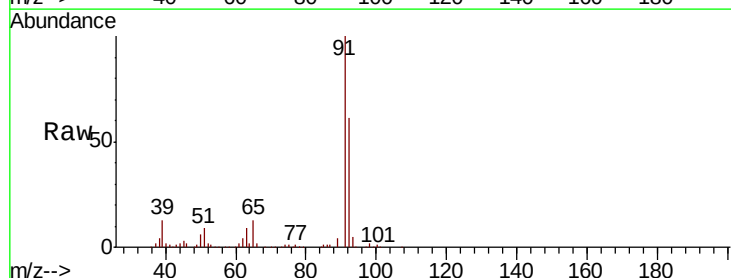
Acq: 12 Nov 2018 18:05

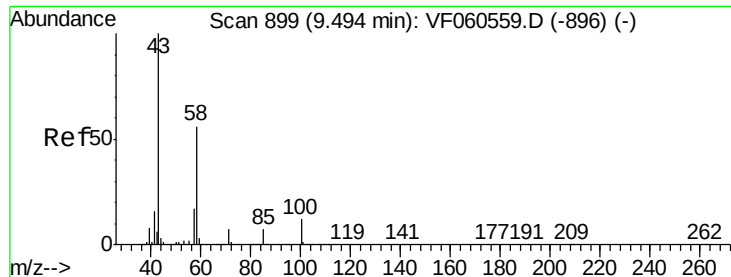
Tgt Ion: 63 Resp: 21224

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





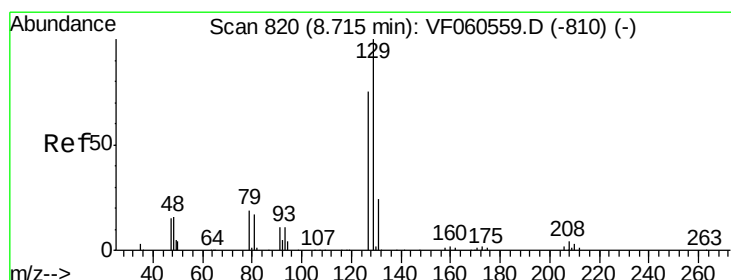
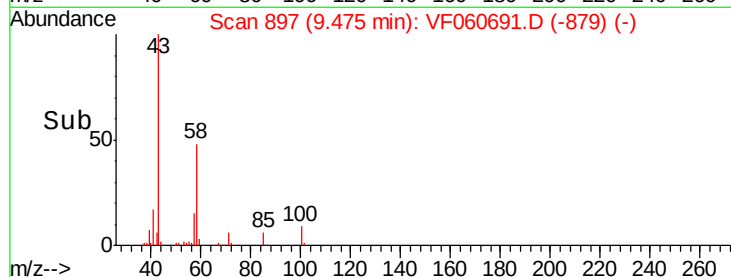
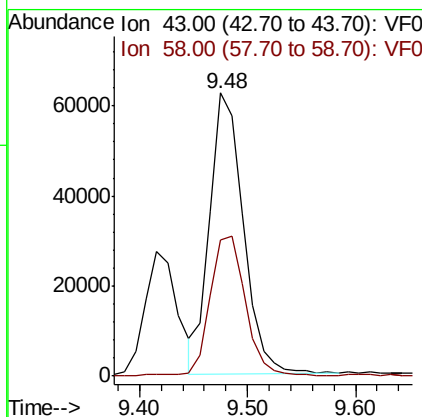
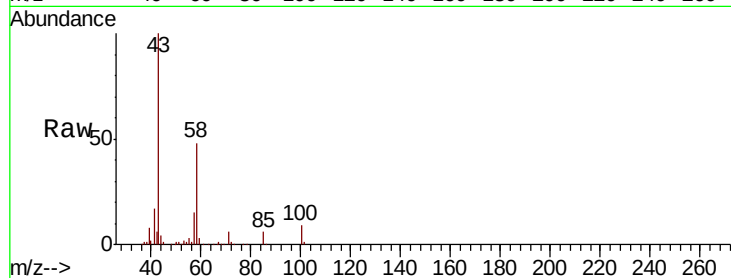
#59
2-Hexanone
Concen: 118.339 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	26.1	78.3

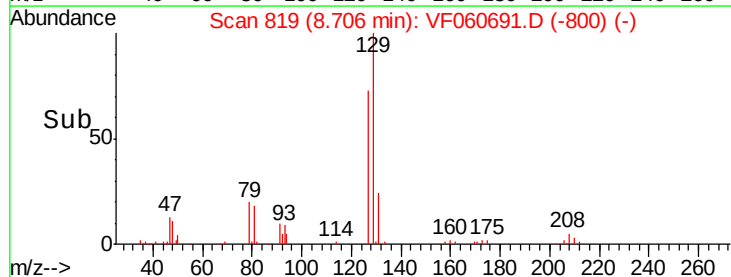
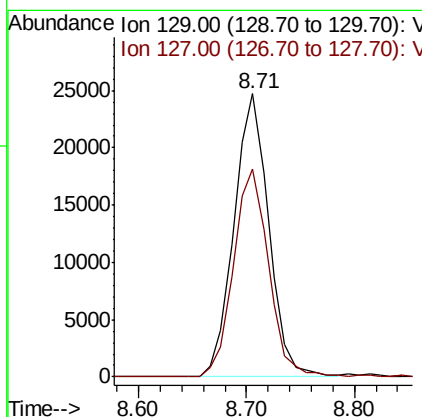
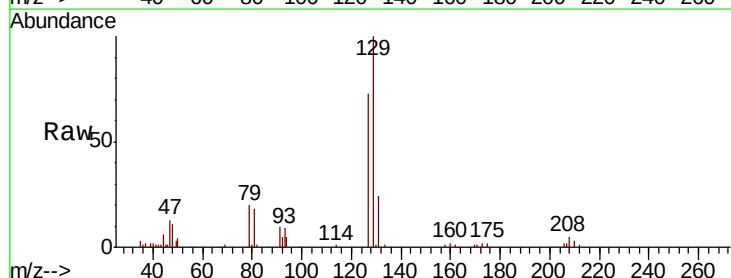
Manual Integrations
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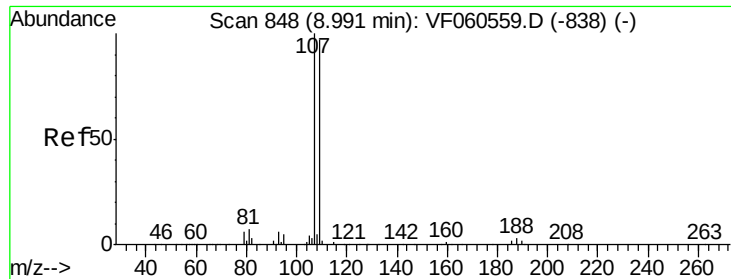
MMDadoda
11/13/2018 2:11:04 PM



#60
Dibromochloromethane
Concen: 22.601 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.3	37.8	113.3





#61

1,2-Dibromoethane

Concen: 22.627 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:107 Resp: 41471

Ion Ratio Lower Upper

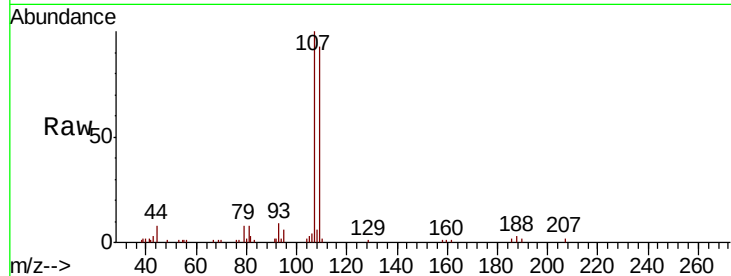
107 100

109 93.3 77.5 116.3

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

20000

15000

10000

5000

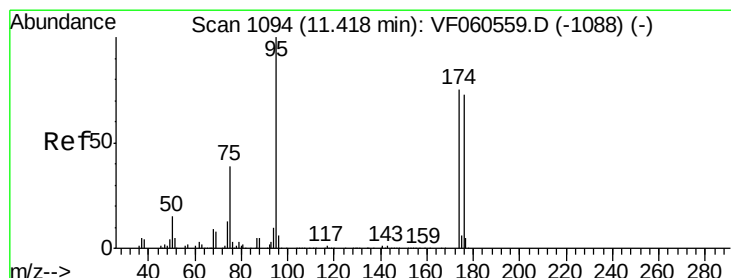
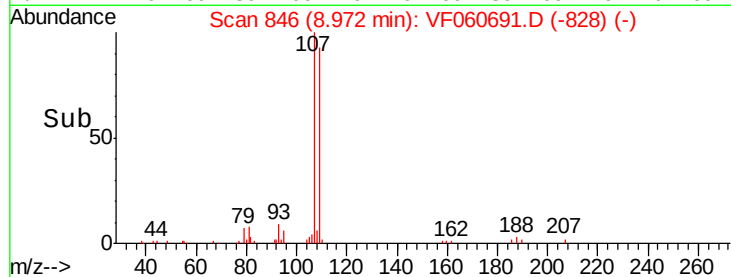
0

Time-->

8.90

9.00

9.10



#62

4-Bromofluorobenzene

Concen: 58.919 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

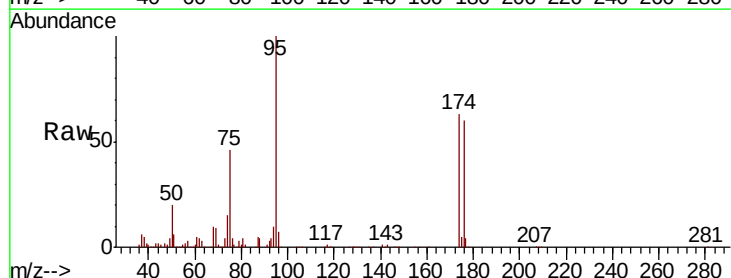
Tgt Ion: 95 Resp: 202913

Ion Ratio Lower Upper

95 100

174 63.5 0.0 149.0

176 60.2 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

150000

100000

50000

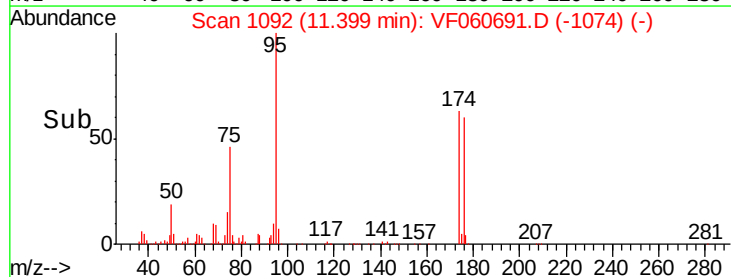
0

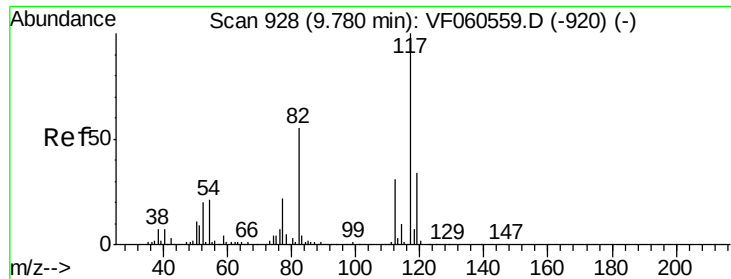
Time-->

11.30

11.40

11.50





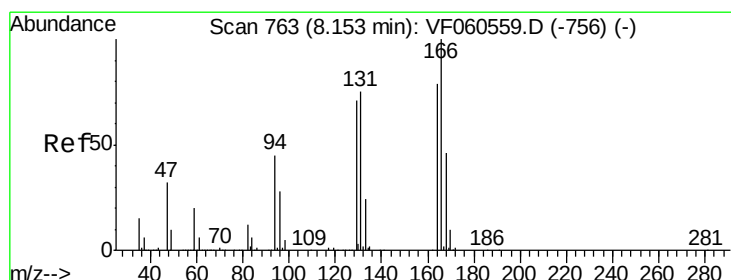
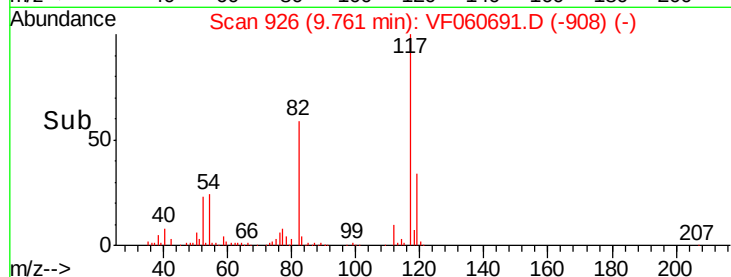
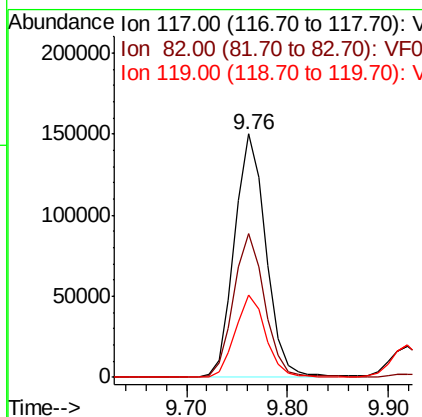
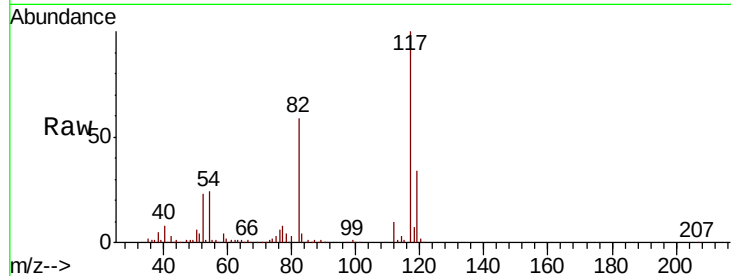
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	326148		
82	59.2		43.9	65.9
119	33.6		27.4	41.0

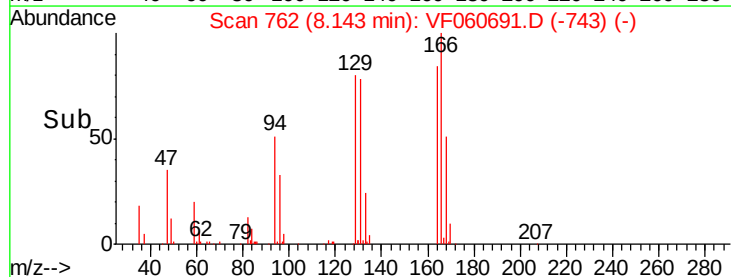
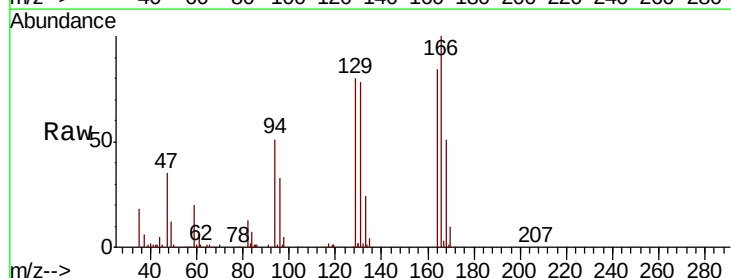
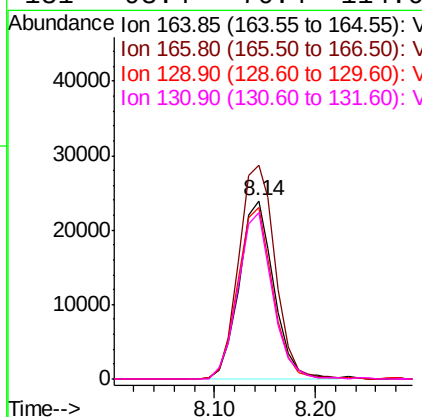
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APPROVED

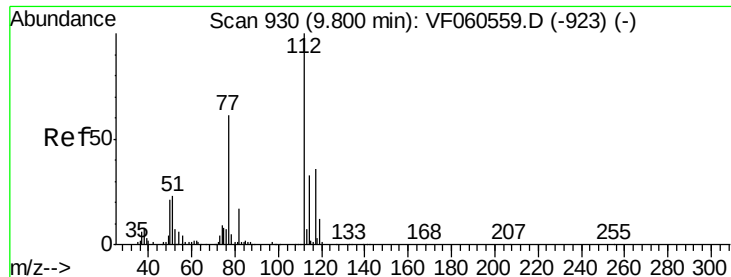
MMDadoda
11/13/2018 2:11:04 PM



#64
Tetrachloroethene
Concen: 22.340 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	57103		
166	119.7		101.5	152.3
129	96.3		72.5	108.7
131	93.4		76.4	114.6





#65

Chlorobenzene

Concen: 21.959 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:112 Resp: 146461

Ion Ratio Lower Upper

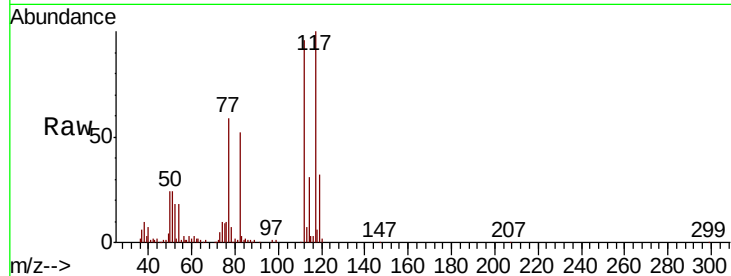
112 100

114 32.5 26.6 40.0

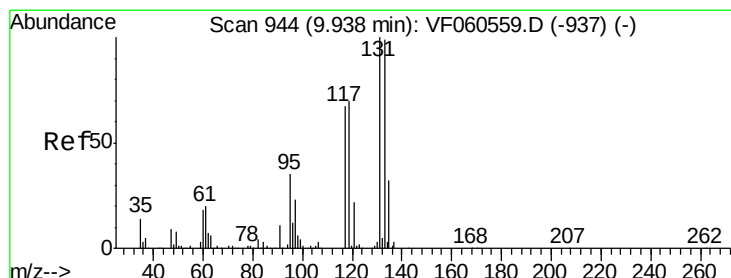
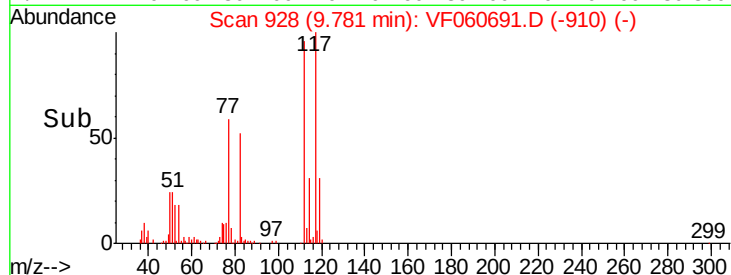
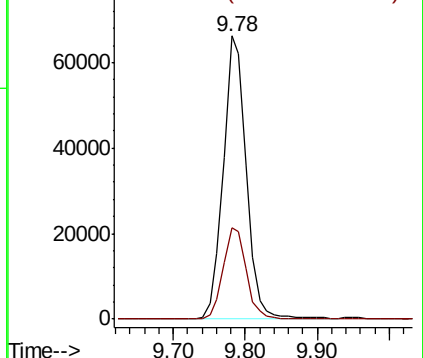
Manual Integrations
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Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.631 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

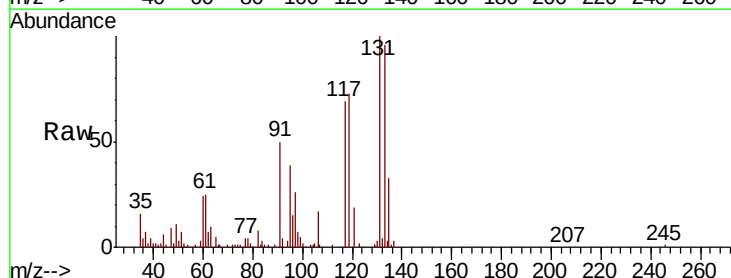
Tgt Ion:131 Resp: 63779

Ion Ratio Lower Upper

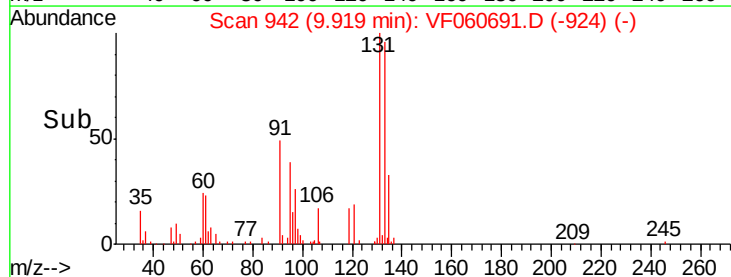
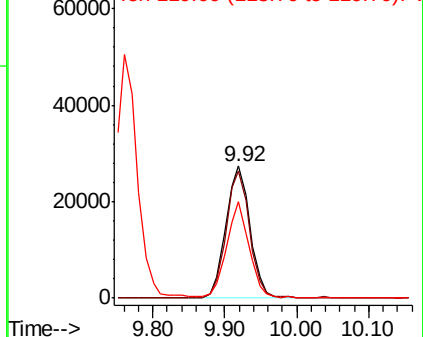
131 100

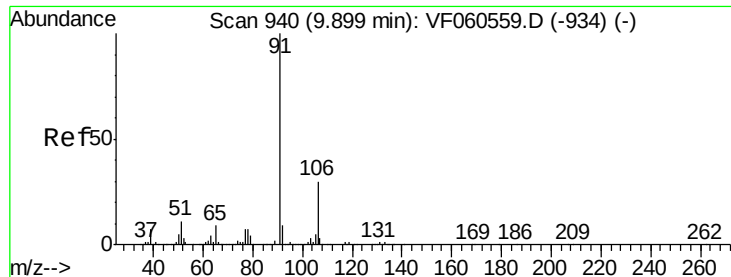
133 96.3 49.5 148.7

119 73.5 35.2 105.6



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 23.447 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion: 91 Resp: 283787

Ion Ratio Lower Upper

91 100

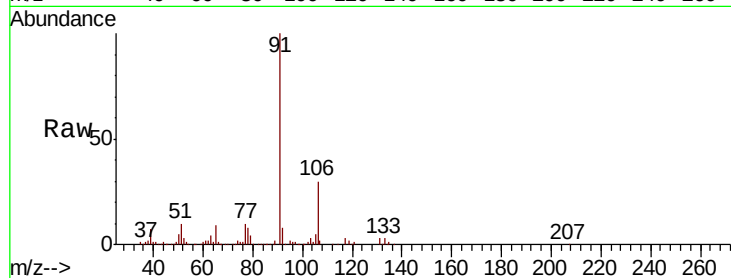
106 29.9 24.2 36.4

Manual Integrations

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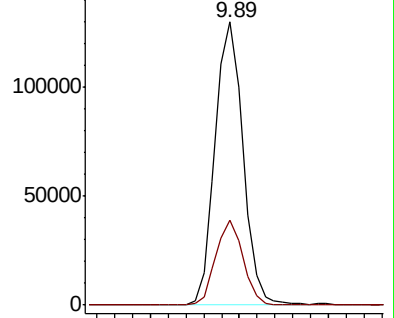
MMDadoda

11/13/2018 2:11:04 PM

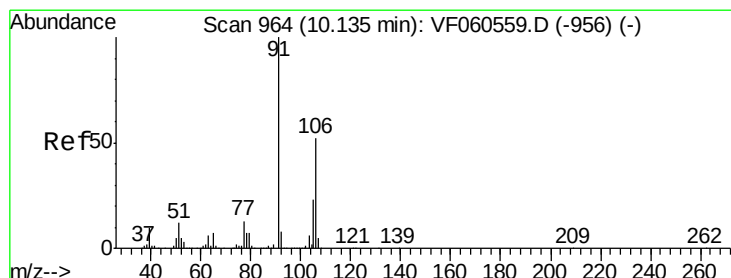
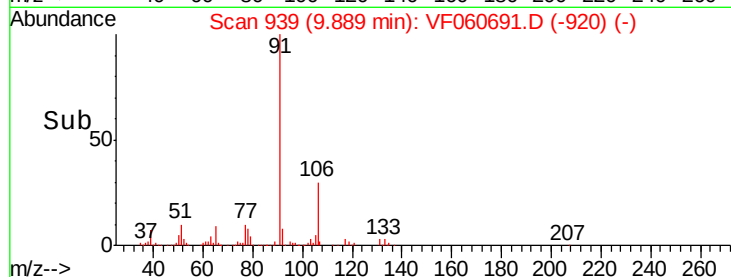


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



Time-->



#68

m/p-Xylenes

Concen: 43.533 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF060691.D

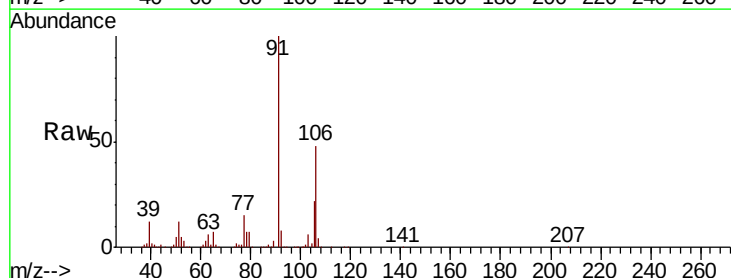
Acq: 12 Nov 2018 18:05

Tgt Ion:106 Resp: 198479

Ion Ratio Lower Upper

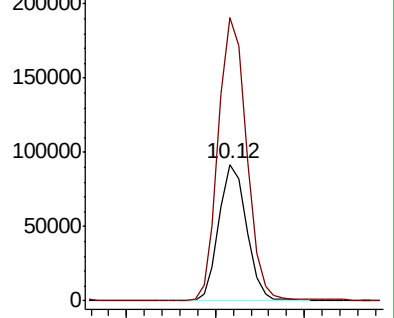
106 100

91 207.5 153.9 230.9

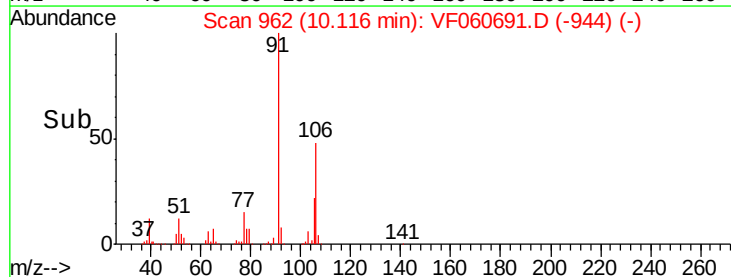


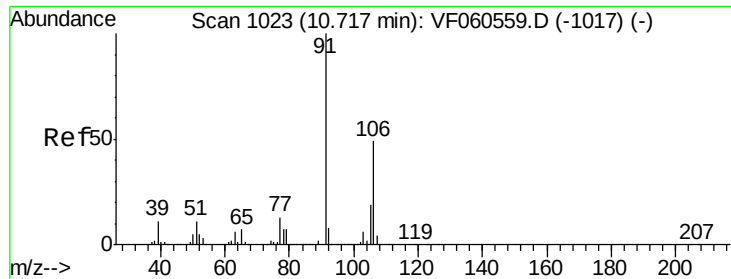
Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



Time-->





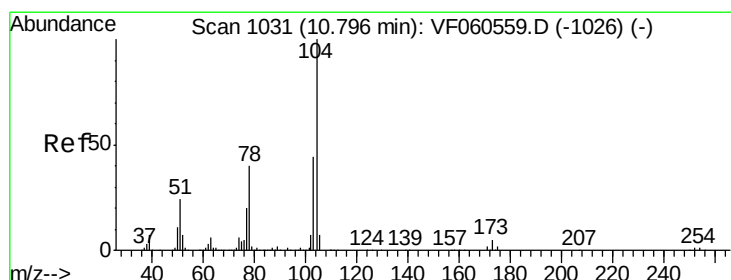
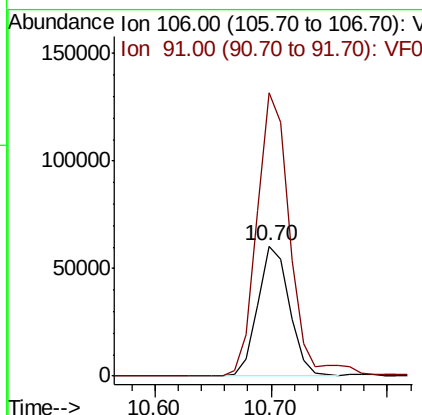
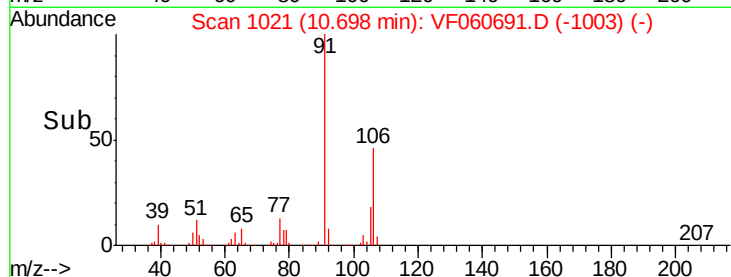
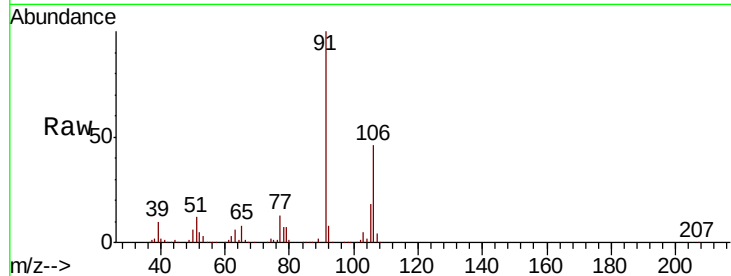
#69
o-Xylene
Concen: 22.996 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion:106 Resp: 114480
Ion Ratio Lower Upper
106 100
91 217.6 101.8 305.3

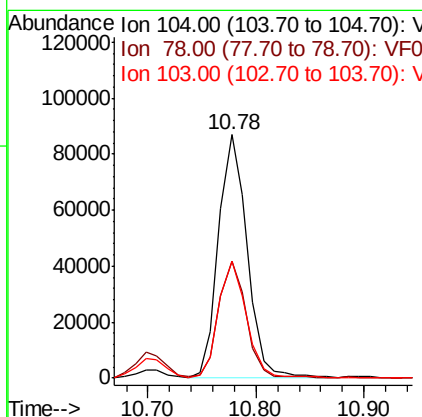
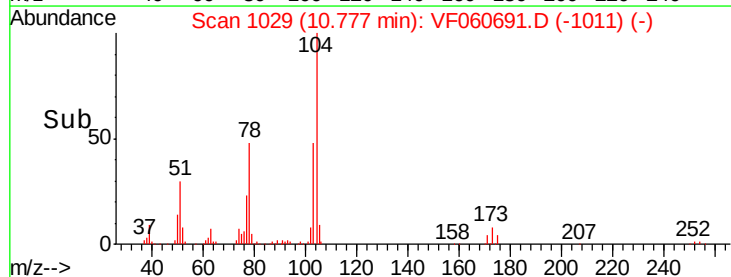
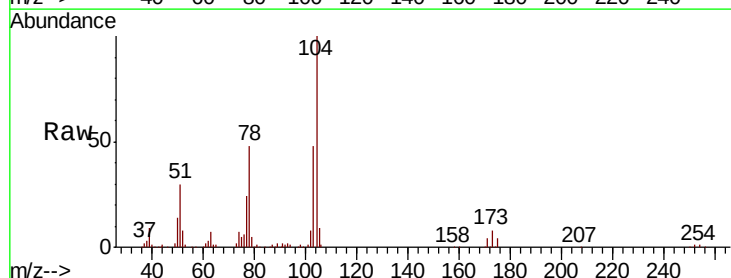
Manual Integrations
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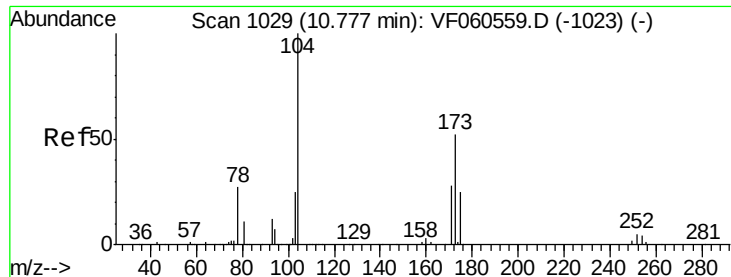
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11/13/2018 2:11:04 PM



#70
Styrene
Concen: 22.233 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion:104 Resp: 160355
Ion Ratio Lower Upper
104 100
78 48.0 32.6 49.0
103 47.8 35.2 52.8





#71

Bromoform

Concen: 20.199 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

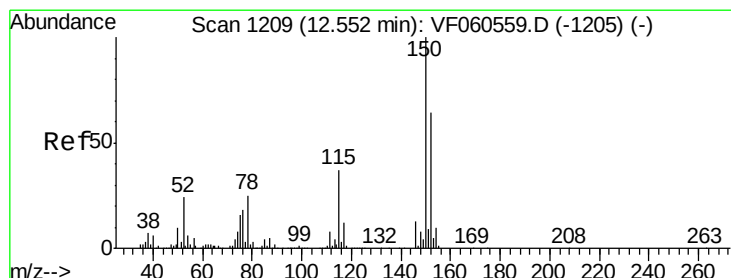
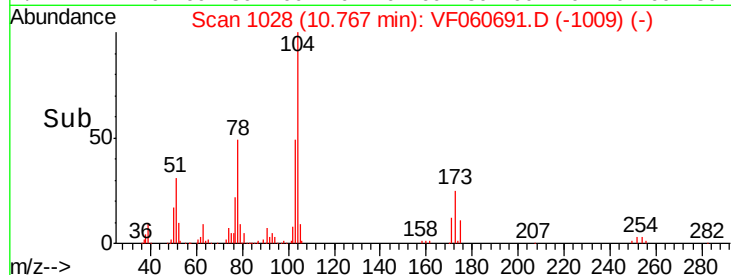
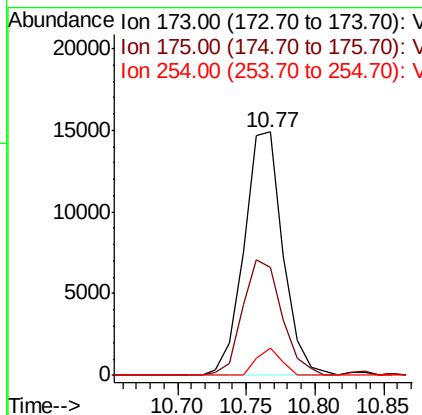
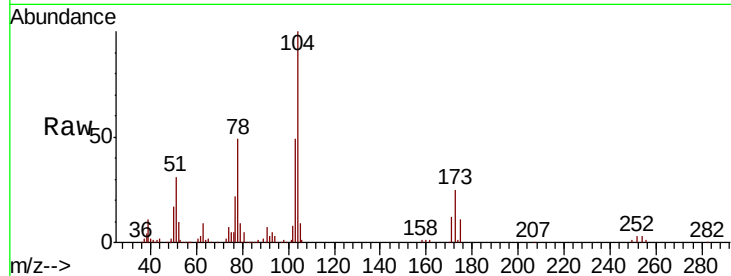
ClientSampleId :

VF1112SBS01

Tot Ion:	173	Resp:	29400
Ion Ratio	Lower	Upper	
173	100		
175	44.5	24.3	72.9
254	11.1	6.7	10.1#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

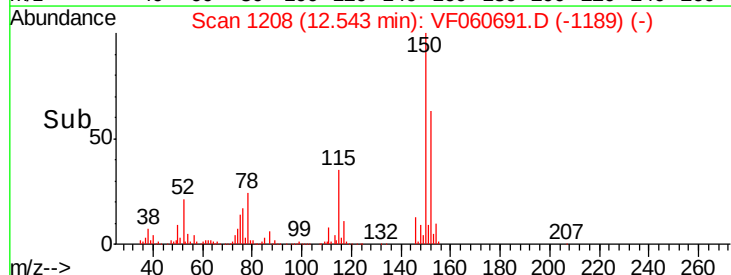
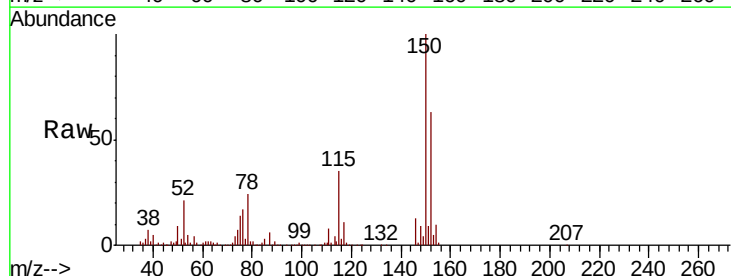
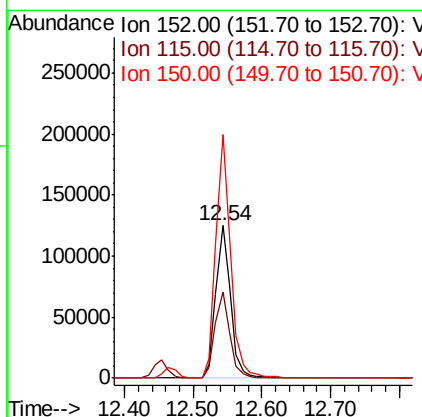
RT: 12.54 min Scan# 1208

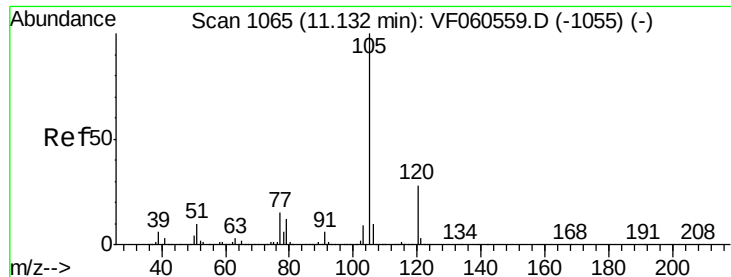
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	152	Resp:	186381
Ion Ratio	Lower	Upper	
152	100		
115	56.7	29.6	88.8
150	160.0	0.0	315.6





#73

Isopropylbenzene

Concen: 24.246 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:105 Resp: 352433

Ion Ratio Lower Upper

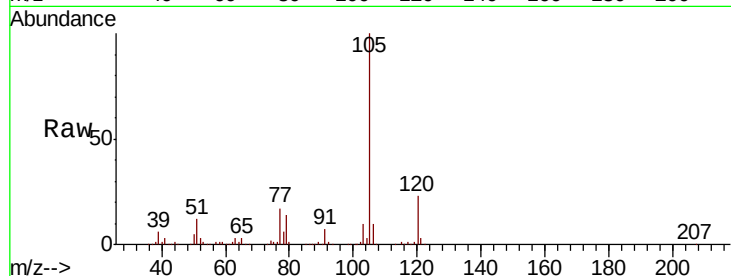
105 100

120 23.5 13.9 41.6

Manual Integrations
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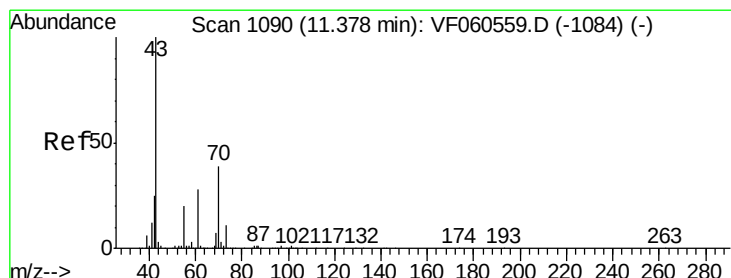
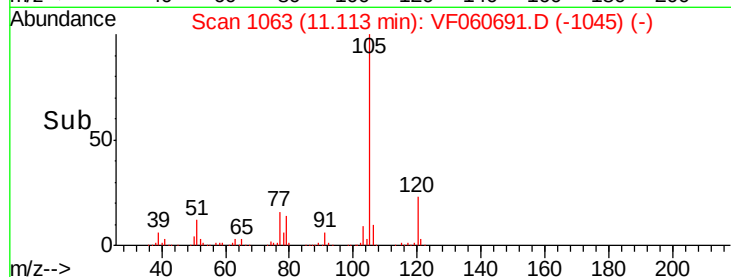
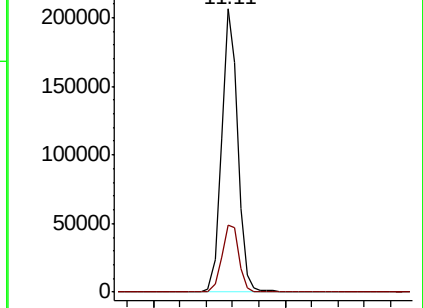
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.648 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion: 43 Resp: 73482

Ion Ratio Lower Upper

43 100

70 33.4 30.9 46.3

55 20.6 16.6 24.8

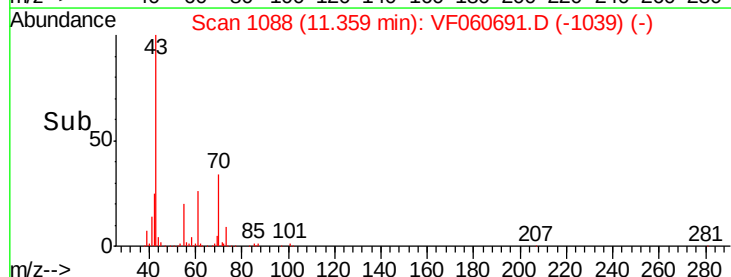
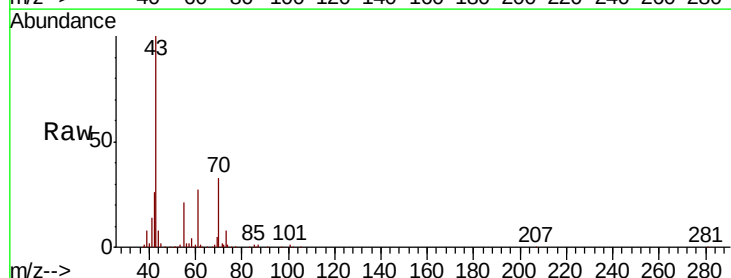
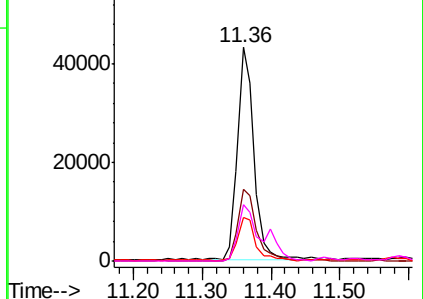
61 26.5 22.0 33.0

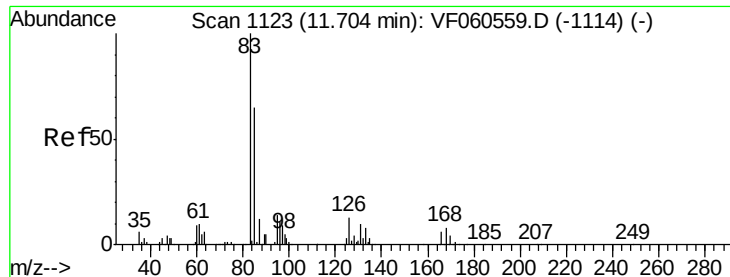
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.411 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

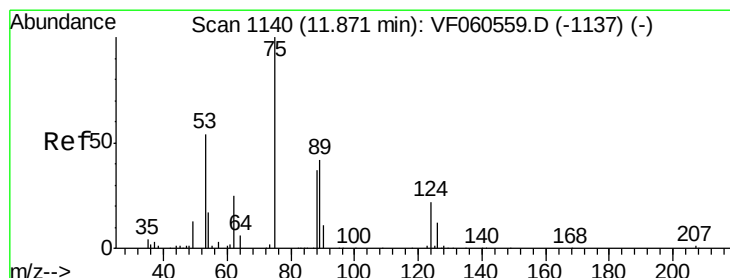
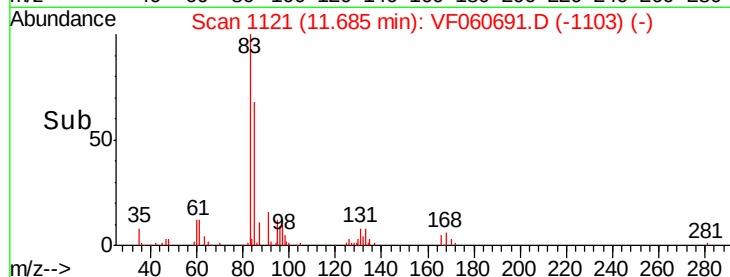
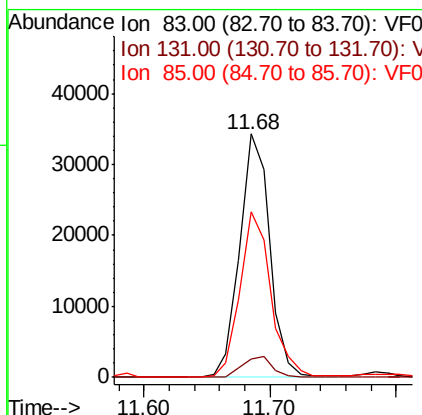
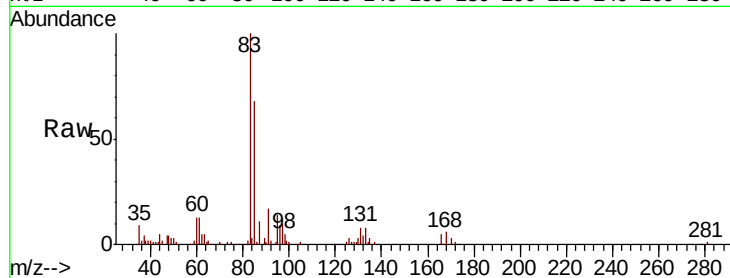
ClientSampleId :

VF1112SBS01

Tot Ion:	83	Resp:	56807
Ion Ratio	Lower	Upper	
83	100		
131	7.5	5.0	14.9
85	68.2	32.9	98.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.590 ug/l

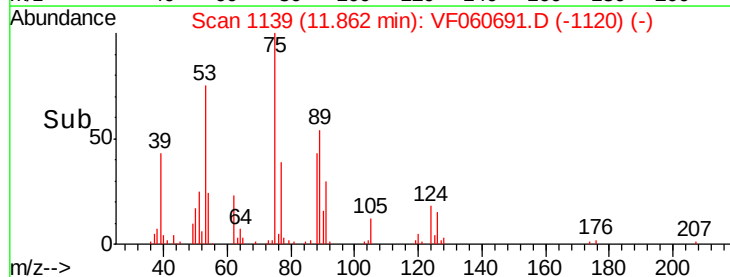
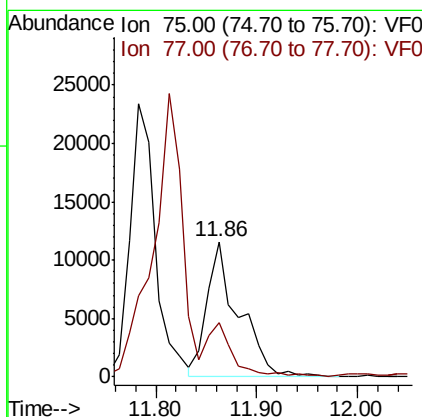
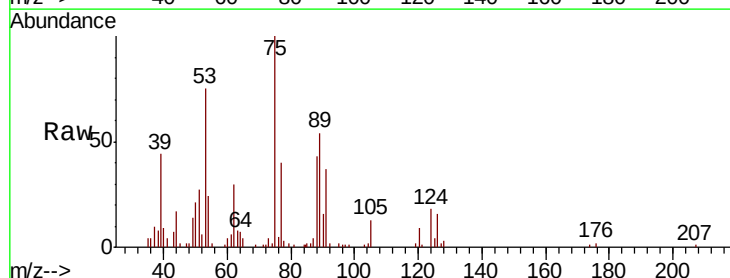
RT: 11.86 min Scan# 1139

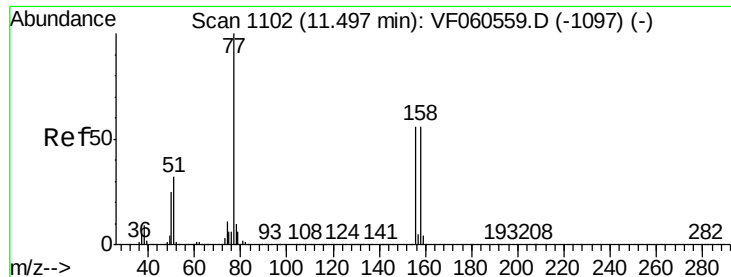
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	75	Resp:	25543
Ion Ratio	Lower	Upper	
75	100		
77	40.0	17.4	52.3





#77

Bromobenzene

Concen: 22.037 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

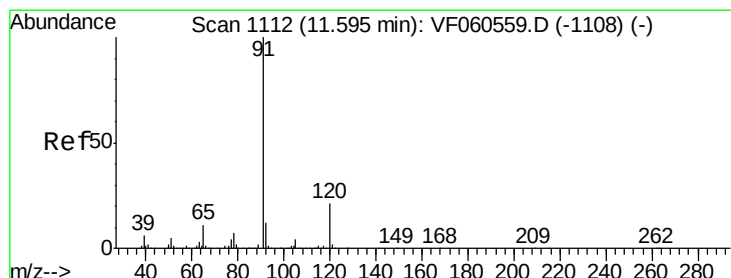
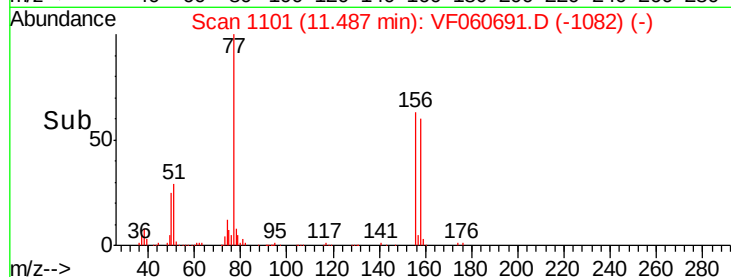
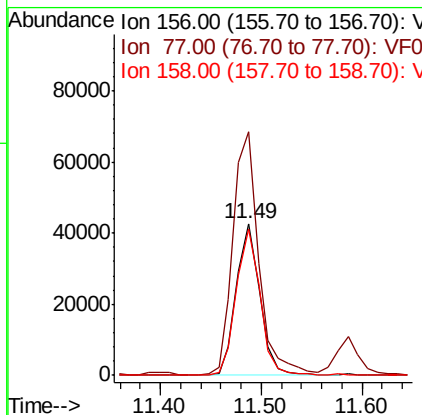
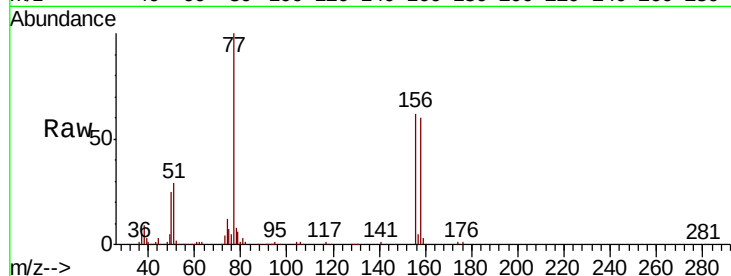
ClientSampleId :

VF1112SBS01

Tot Ion:	156	Resp:	70091
Ion Ratio	Lower	Upper	
156	100		
77	160.4	89.3	268.1
158	96.6	50.0	150.1

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#78

n-propylbenzene

Concen: 23.871 ug/l

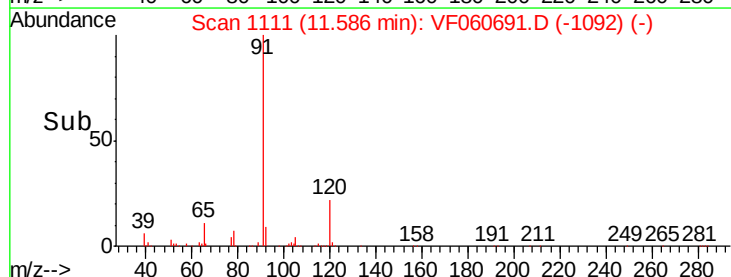
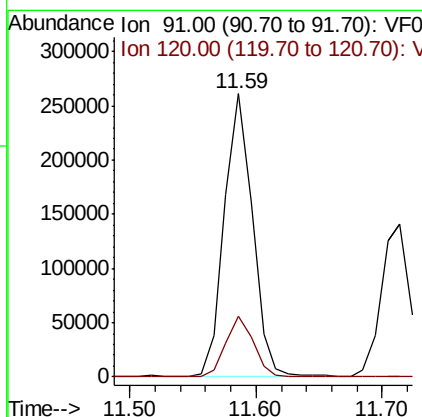
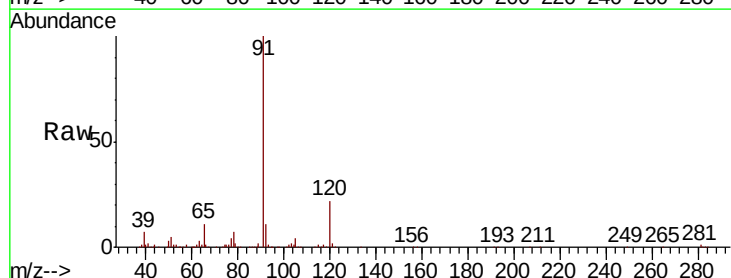
RT: 11.59 min Scan# 1111

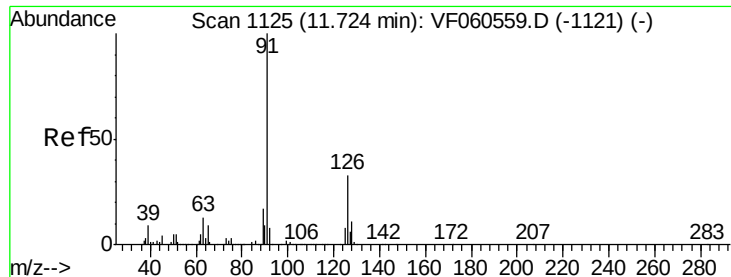
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	91	Resp:	405966
Ion Ratio	Lower	Upper	
91	100		
120	21.7	10.5	31.6





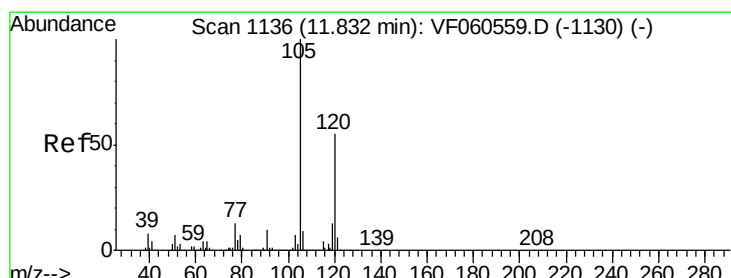
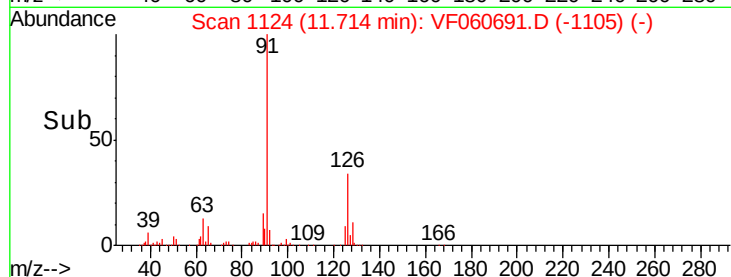
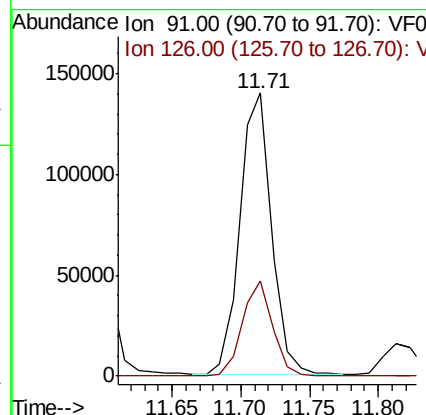
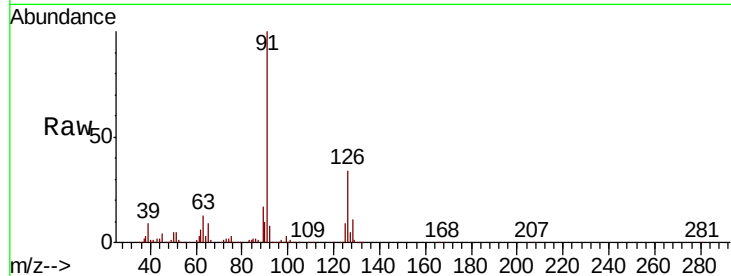
#79
 2-Chlorotoluene
 Concen: 23.043 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.5	49.5

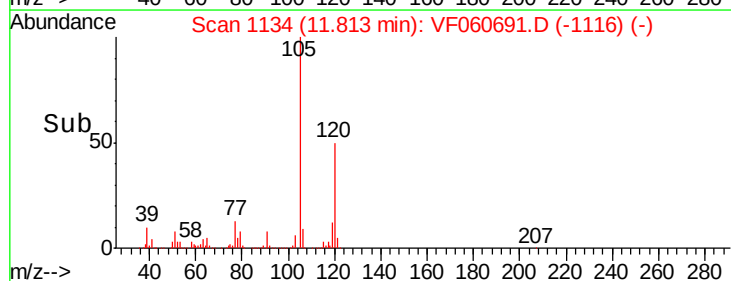
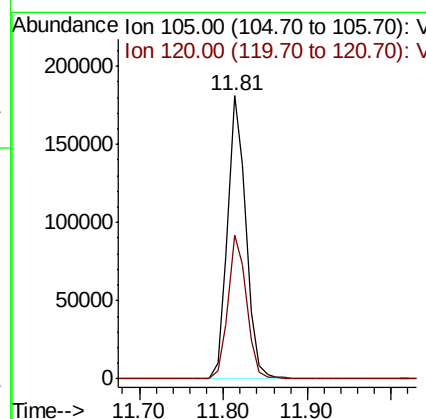
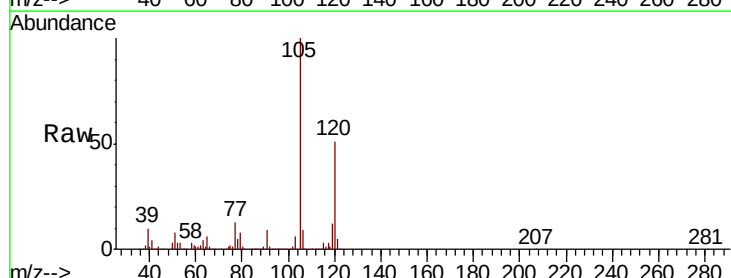
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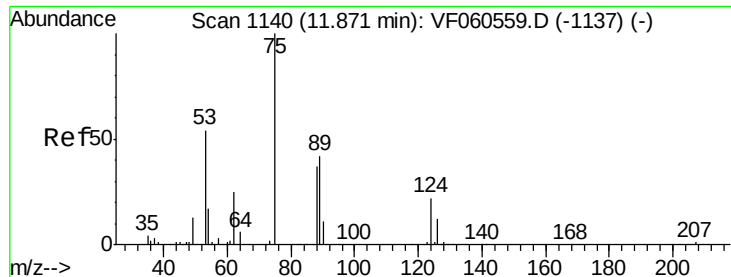
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 23.072 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.7	27.6	82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.929 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

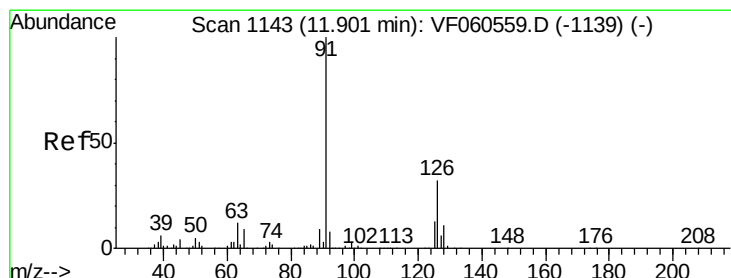
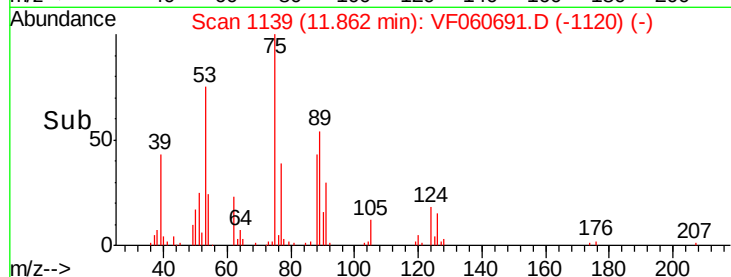
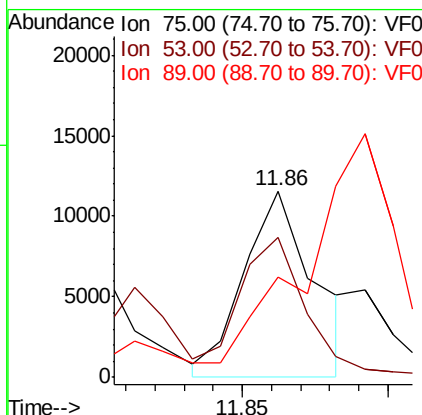
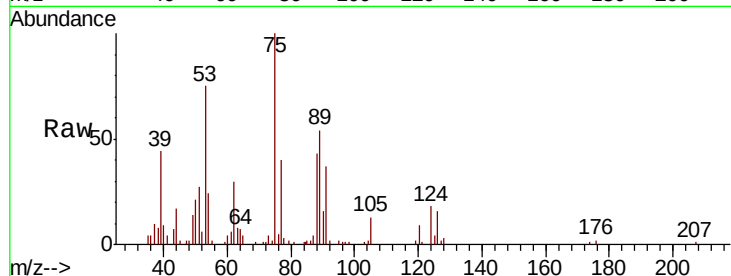
ClientSampleId :

VF1112SBS01

Tot Ion:	75	Resp:	19397
Ion	Ratio	Lower	Upper
75	100		
53	75.3	51.6	77.4
89	53.8	36.7	55.1

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#82

4-Chlorotoluene

Concen: 23.370 ug/l

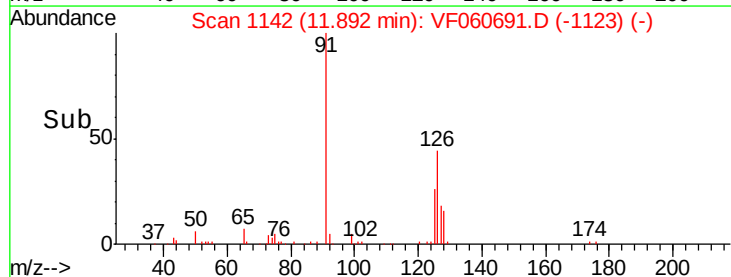
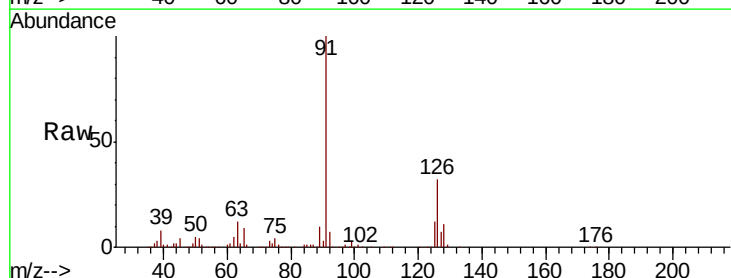
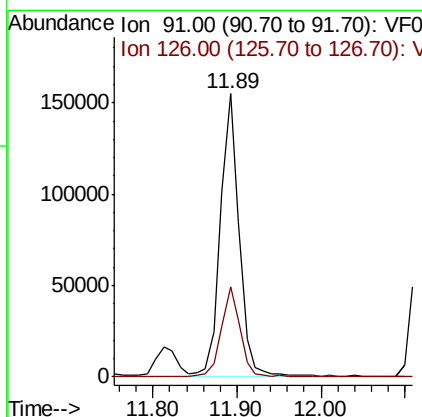
RT: 11.89 min Scan# 1142

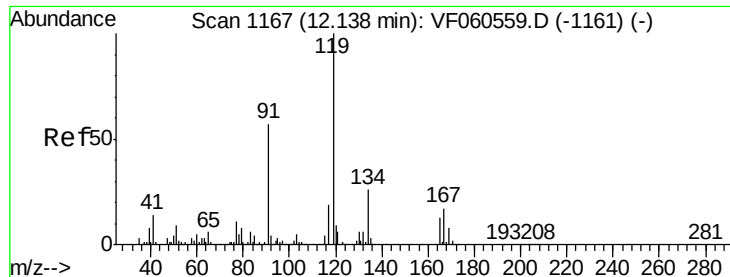
Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion:	91	Resp:	236806
Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7





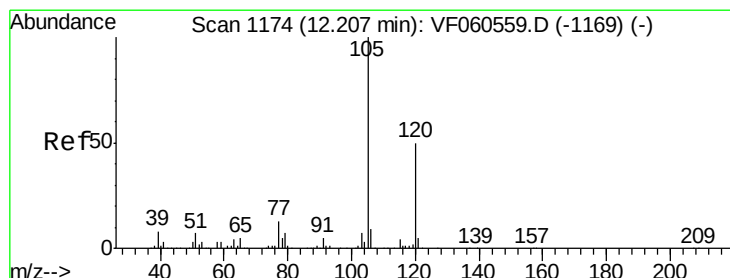
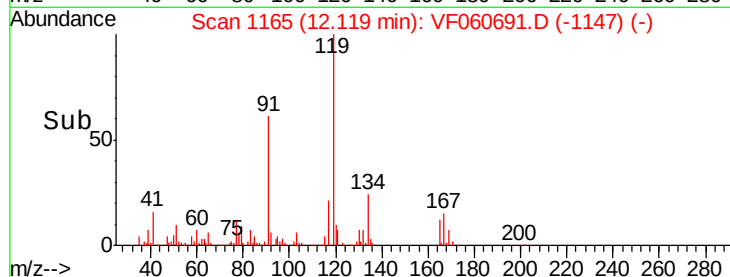
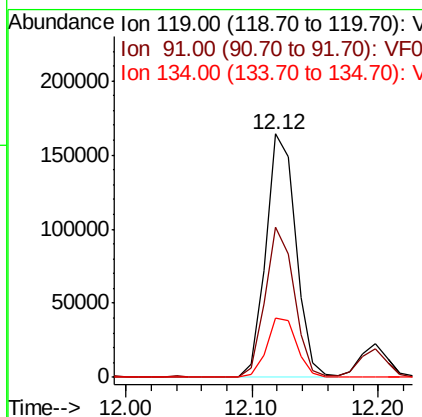
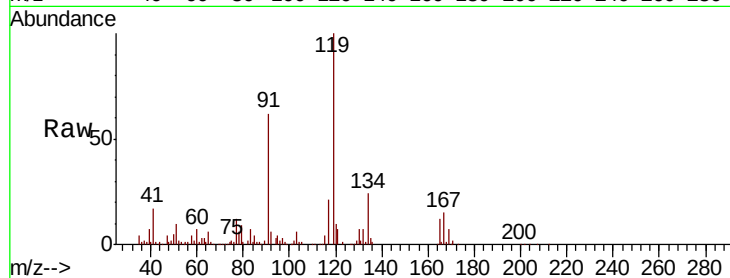
#83
tert-Butylbenzene
Concen: 22.330 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.6	28.8	86.4
134	24.1	13.2	39.6

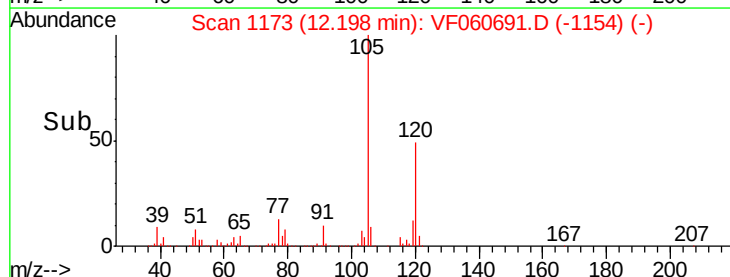
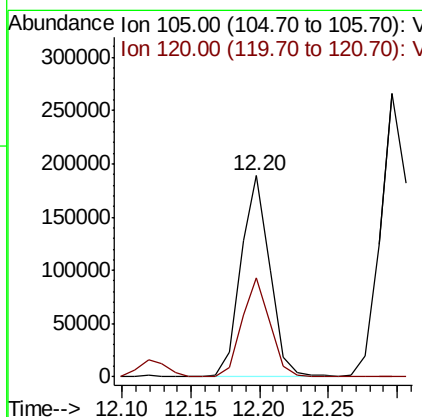
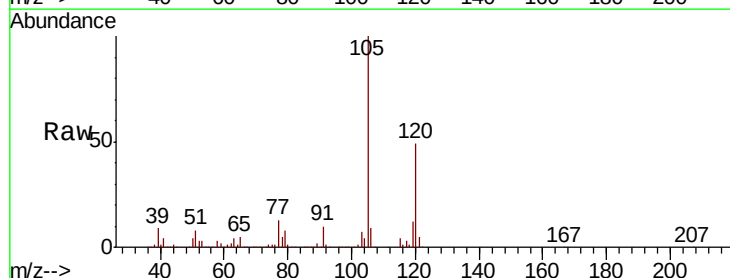
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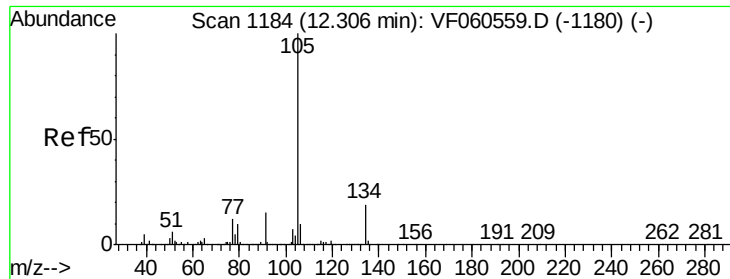
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 23.575 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.0	25.6	76.8





#85

sec-Butylbenzene

Concen: 22.965 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Instrument :

MSVOA_F

ClientSampleId :

VF1112SBS01

Tot Ion:105 Resp: 386680

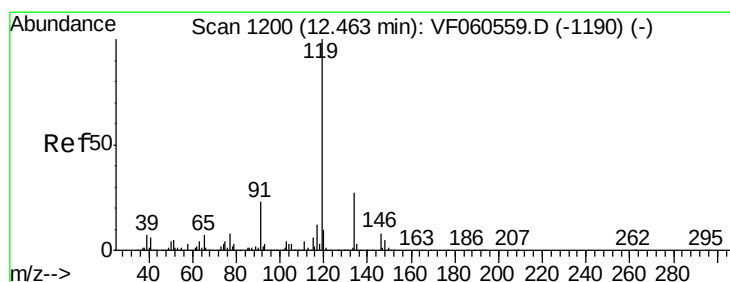
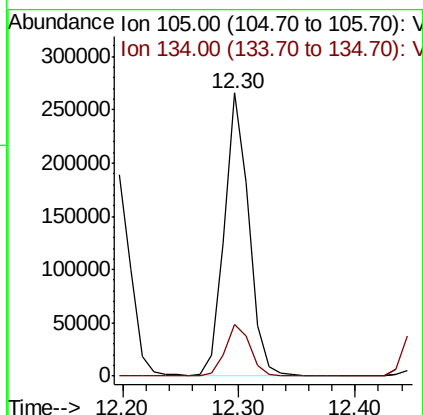
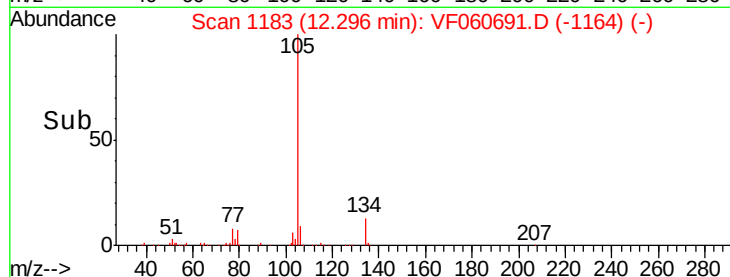
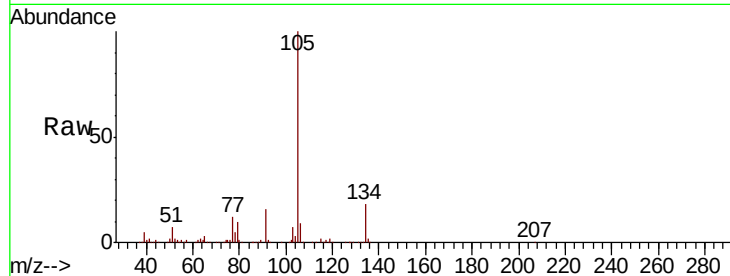
Ion Ratio Lower Upper

105 100

134 18.1 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 22.493 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

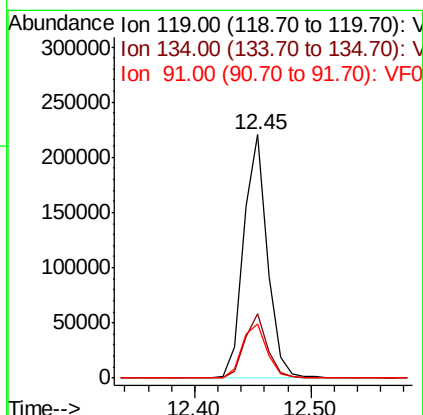
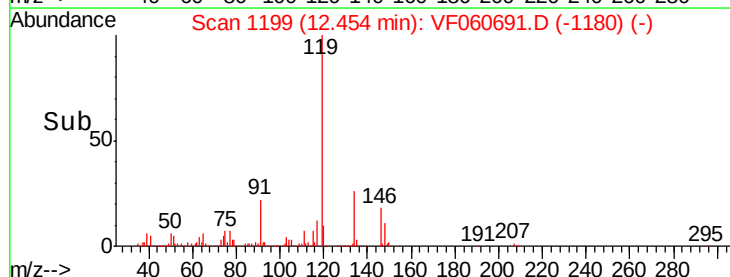
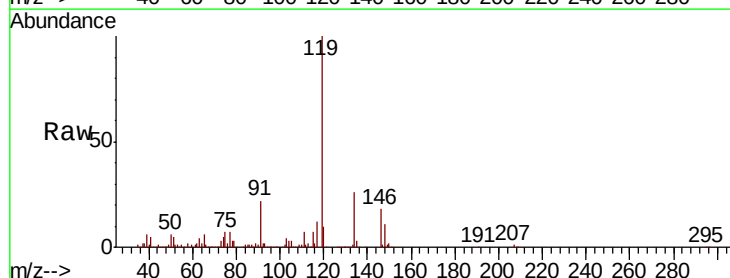
Tgt Ion:119 Resp: 311882

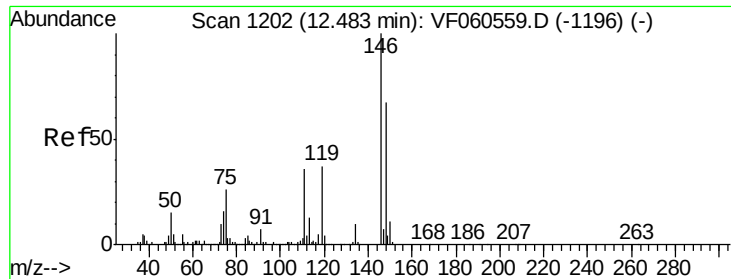
Ion Ratio Lower Upper

119 100

134 26.4 13.6 40.7

91 22.2 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 21.416 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF060691.D

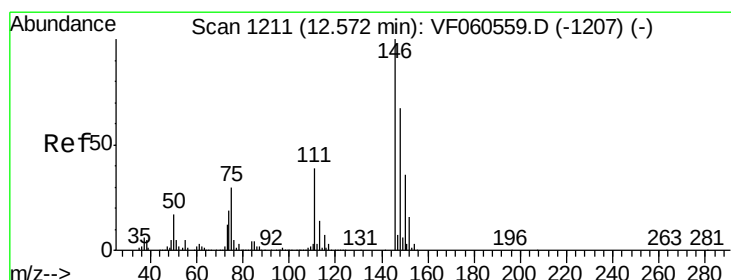
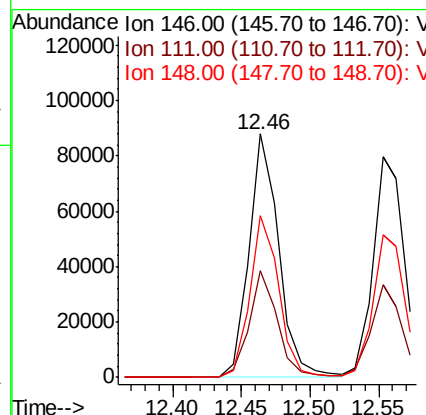
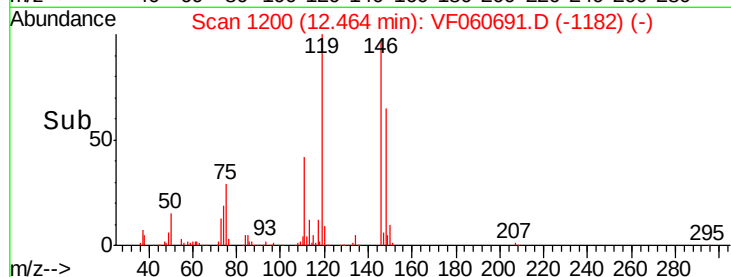
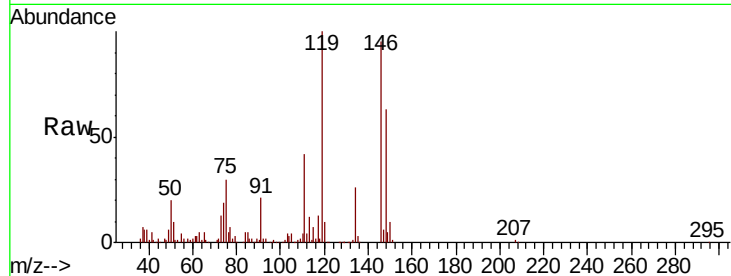
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	18.3	54.8
148	66.6	33.5	100.4

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#88

1,4-Dichlorobenzene

Concen: 21.675 ug/l

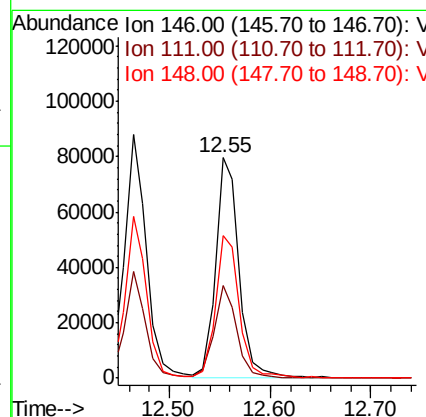
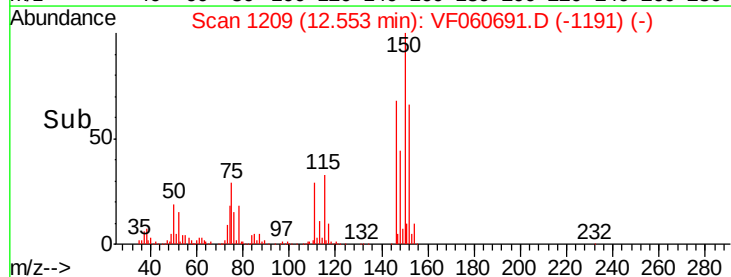
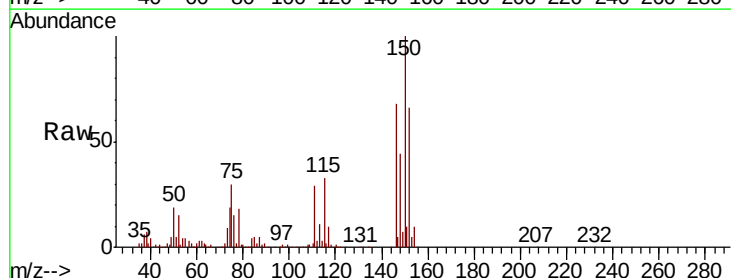
RT: 12.55 min Scan# 1209

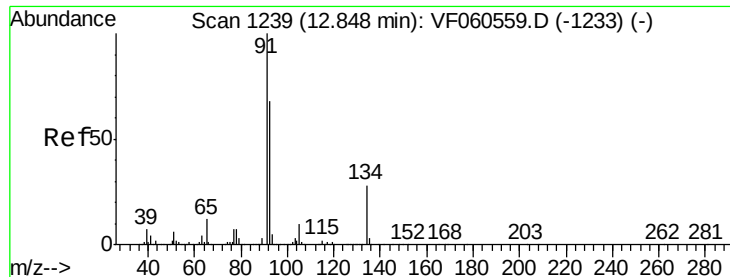
Delta R.T. -0.02 min

Lab File: VF060691.D

Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	19.7	59.1
148	65.0	33.7	101.1





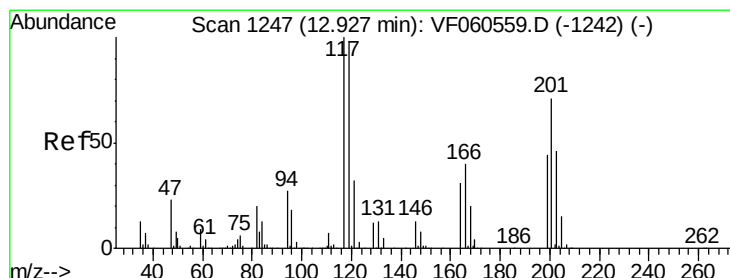
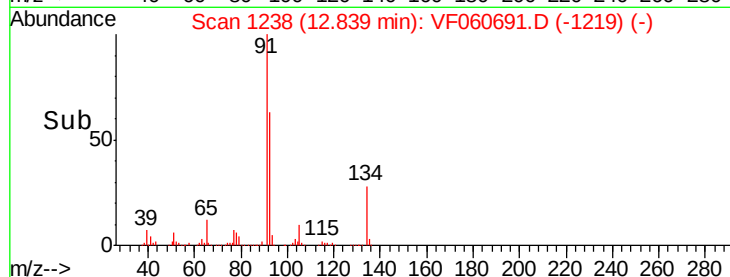
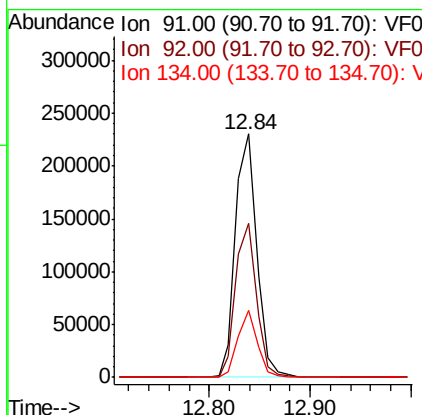
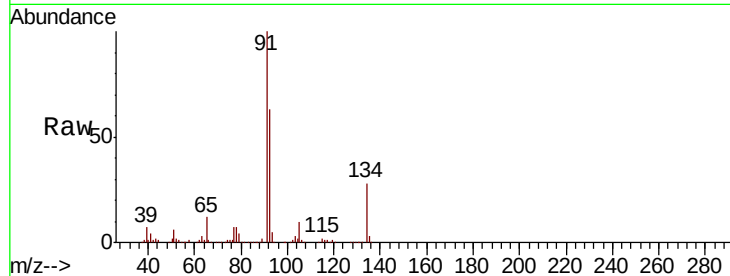
#89
n-Butylbenzene
Concen: 22.648 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.3	34.1	102.2
134	27.5	13.9	41.6

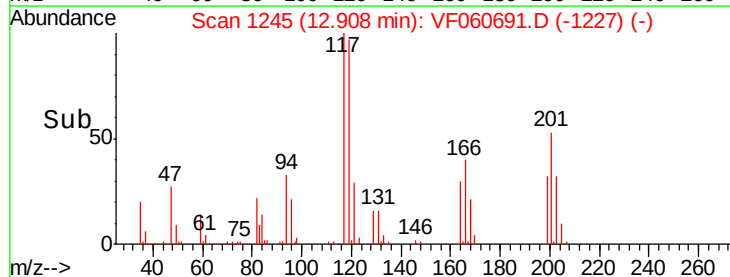
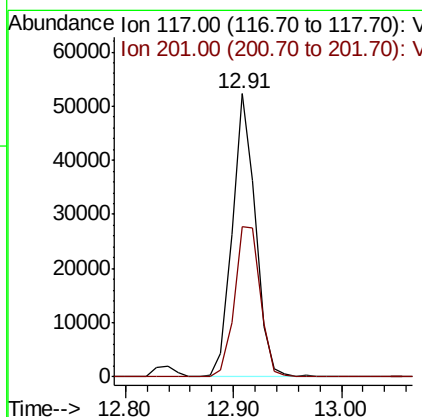
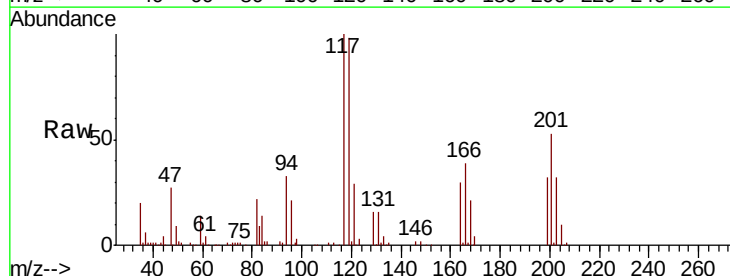
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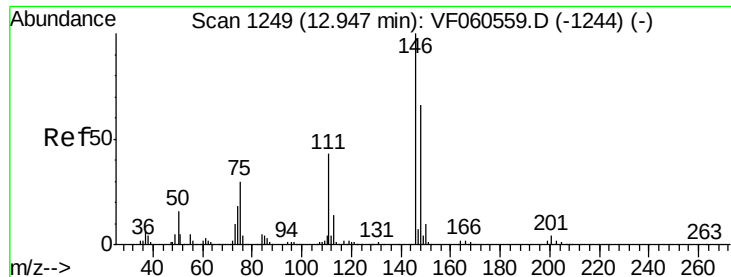
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#90
Hexachloroethane
Concen: 22.075 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.2	35.2	105.6





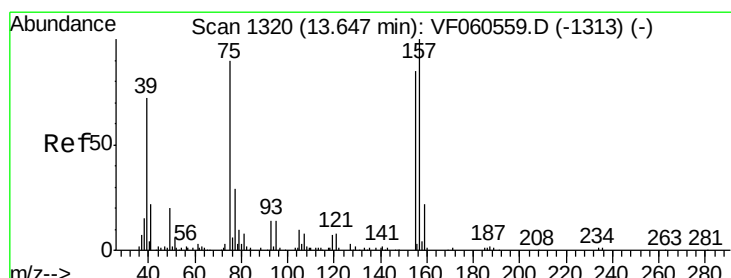
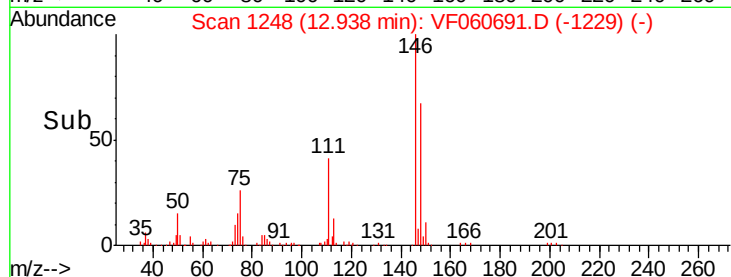
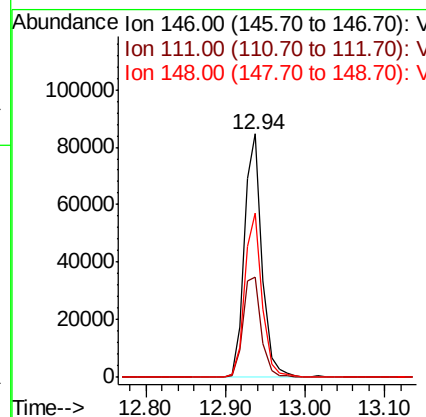
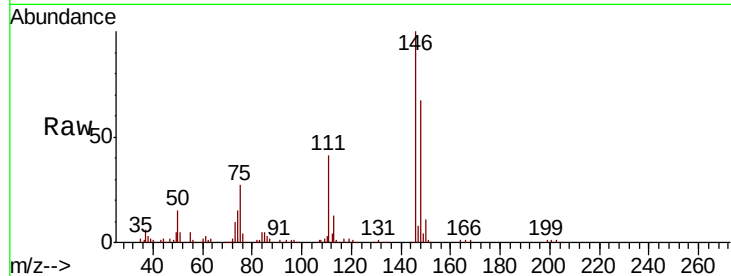
#91
 1,2-Dichlorobenzene
 Concen: 22.208 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.3	64.0
148	67.3	32.9	98.7

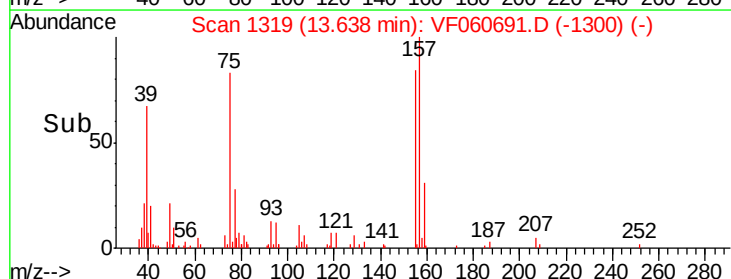
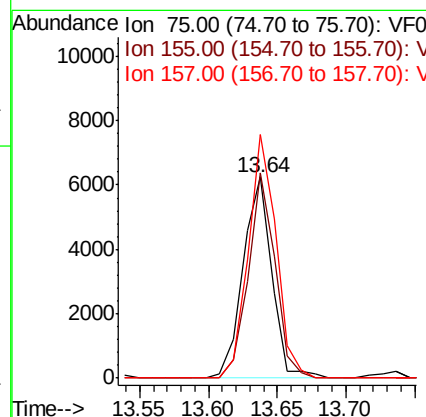
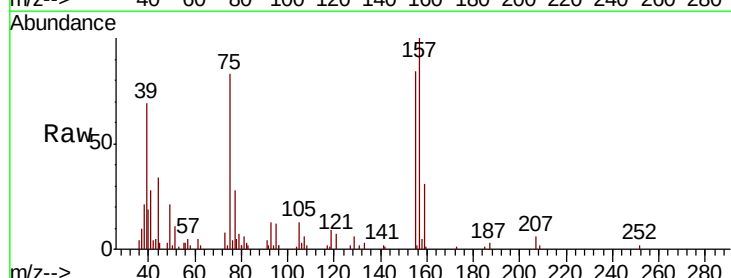
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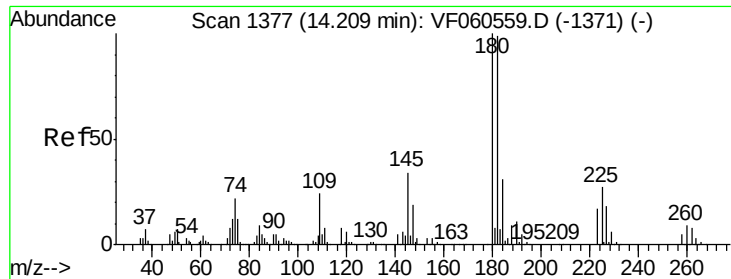
MMDadoda
 11/13/2018 2:11:04 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.738 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.2	47.3	141.8
157	121.0	55.3	165.9





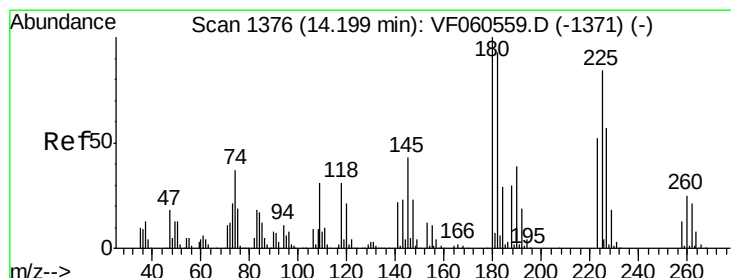
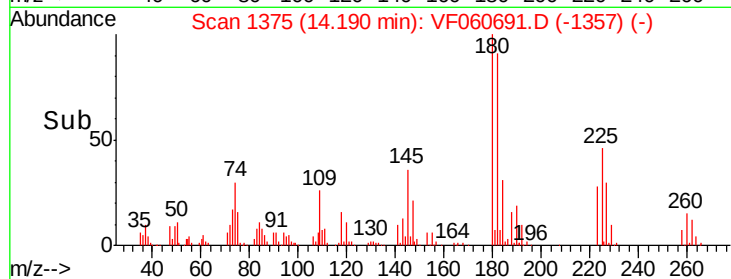
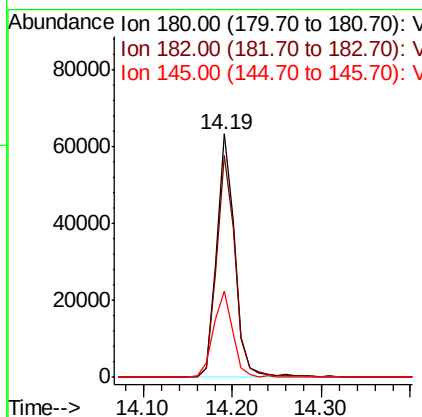
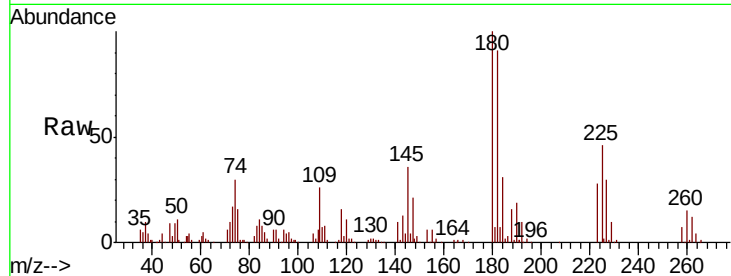
#93
 1,2,4-Trichlorobenzene
 Concen: 22.694 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1112SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.2	49.7	149.1
145	35.6	16.9	50.7

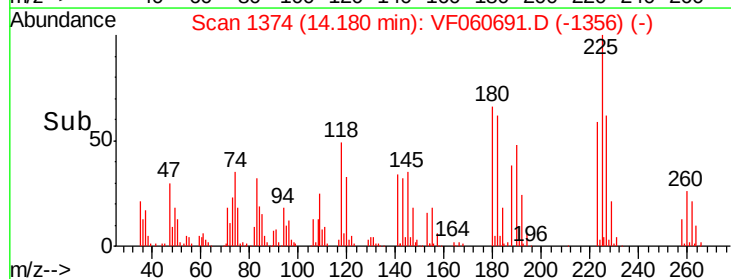
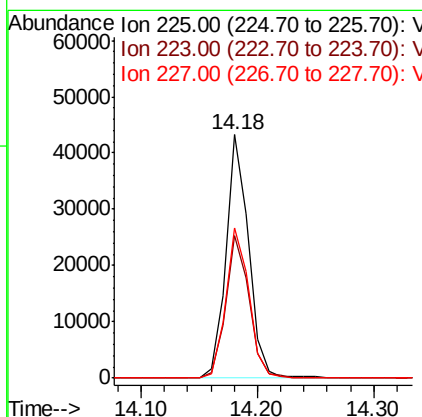
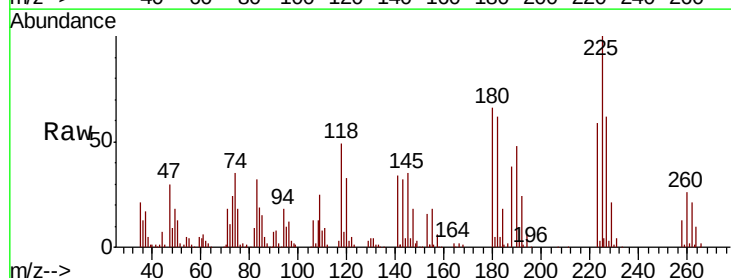
Manual Integrations
 APPROVED

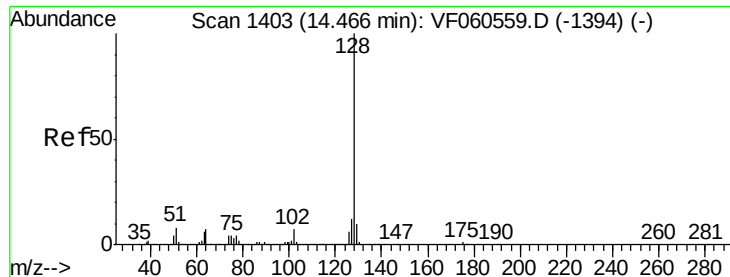
MMDadoda
 11/13/2018 2:11:04 PM



#94
 Hexachlorobutadiene
 Concen: 22.568 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF060691.D
 Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.7	30.9	92.5
227	61.7	33.9	101.6





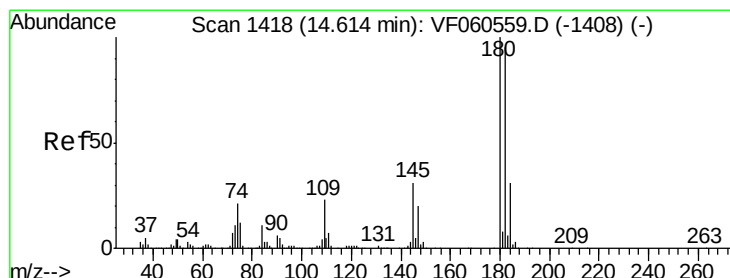
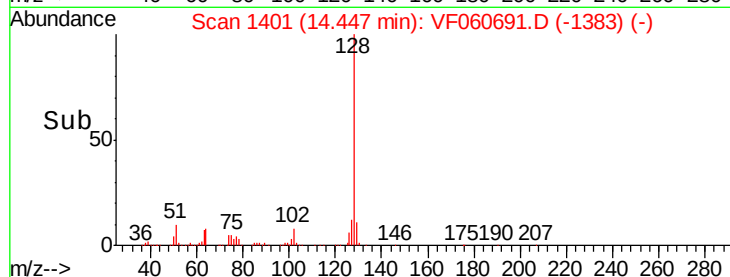
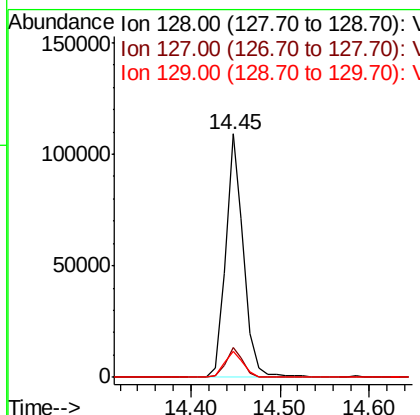
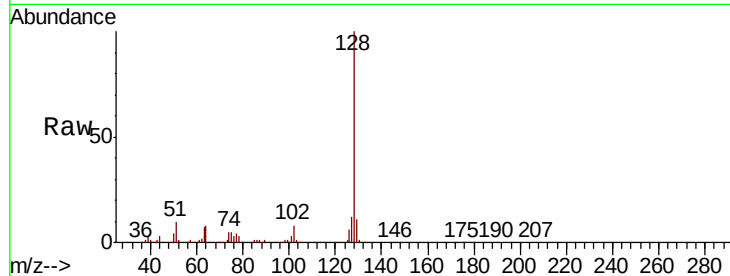
#95
Naphthalene
Concen: 19.593 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Instrument :
MSVOA_F
ClientSampleId :
VF1112SBS01

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.3	9.4	14.0
129	10.7	8.4	12.6

Manual Integrations
APPROVED

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11/13/2018 2:11:04 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.460 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF060691.D
Acq: 12 Nov 2018 18:05

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	92.0	47.3	142.0
145	34.6	15.6	46.8

