

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111418\
 Data File : VF060720.D
 Acq On : 14 Nov 2018 11:48
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/15/2018 1:30:39 PM

Quant Time: Nov 15 06:52:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	220803	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	377454	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	357449	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	184072	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	116227	46.15	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	92.30%	
35) Dibromofluoromethane	4.09	113	135603	47.79	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	95.58%	
50) Toluene-d8	7.53	98	373182	51.36	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	102.72%	
62) 4-Bromofluorobenzene	11.40	95	170432	50.83	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.66%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.96	85	198817	50.31	ug/l	97
3) Chloromethane	1.09	50	123817	50.52	ug/l	97
4) Vinyl Chloride	1.14	62	116540	53.16	ug/l	95
5) Bromomethane	1.32	94	76432	54.89	ug/l	91
6) Chloroethane	1.37	64	50075	58.38	ug/l	94
7) Trichlorofluoromethane	1.48	101	250892m	51.75	ug/l	
8) Diethyl Ether	1.62	74	31823	51.23	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.81	101	120645	52.81	ug/l	96
10) Methyl Iodide	1.88	142	189800m	51.78	ug/l	
11) Tert butyl alcohol	2.56	59	26141	228.07	ug/l	99
12) 1,1-Dichloroethene	1.77	96	95805	53.18	ug/l	98
13) Acrolein	1.99	56	29103	277.69	ug/l	99
14) Allyl chloride	2.09	41	171116	54.22	ug/l	92
15) Acrylonitrile	2.92	53	61266	250.84	ug/l	96
16) Acetone	2.22	43	149145	277.06	ug/l	96
17) Carbon Disulfide	1.79	76	294734m	54.13	ug/l	
18) Methyl Acetate	2.33	43	42403	47.97	ug/l	96
19) Methyl tert-butyl Ether	2.41	73	213171	49.33	ug/l	99
20) Methylene Chloride	2.17	84	95801m	53.76	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	98236	52.20	ug/l	94
22) Diisopropyl ether	2.78	45	316208	51.90	ug/l	99
23) Vinyl Acetate	3.16	43	762341	265.71	ug/l	100
24) 1,1-Dichloroethane	2.86	63	199323	54.04	ug/l	99
25) 2-Butanone	4.31	43	239173	270.12	ug/l	99
26) 2,2-Dichloropropane	3.58	77	158361	54.56	ug/l	93
27) cis-1,2-Dichloroethene	3.46	96	167299	52.25	ug/l	95
28) Bromochloromethane	3.69	49	91037	47.49	ug/l	92
29) Tetrahydrofuran	4.05	42	91179	249.65	ug/l	98
30) Chloroform	3.83	83	292295	49.39	ug/l	96
31) Cyclohexane	3.67	56	231391	51.69	ug/l	98
32) 1,1,1-Trichloroethane	4.07	97	237301	50.92	ug/l	95
36) 1,1-Dichloropropene	4.26	75	226041	51.64	ug/l	100
37) Ethyl Acetate	4.09	43	79529	48.87	ug/l	93
38) Carbon Tetrachloride	3.97	117	222747	52.44	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	261564	51.50	ug/l	97
40) Benzene	4.61	78	496212	50.85	ug/l	98
41) Methacrylonitrile	4.72	41	44547	51.47	ug/l	94
42) 1,2-Dichloroethane	4.92	62	164947	48.91	ug/l	99
43) Isopropyl Acetate	6.94	43	105216	48.76	ug/l #	98
44) Trichloroethene	5.48	130	155759	50.59	ug/l	95
45) 1,2-Dichloropropane	6.22	63	125838	49.56	ug/l	97
46) Dibromomethane	6.06	93	82822	49.41	ug/l	91
47) Bromodichloromethane	6.37	83	208399	48.69	ug/l	99
48) Methyl methacrylate	6.69	41	67918	47.56	ug/l	98
49) 1,4-Dioxane	6.68	88	13600	1018.26	ug/l #	89
51) 4-Methyl-2-Pentanone	8.24	43	378966	242.83	ug/l	99
52) Toluene	7.60	92	330747	50.58	ug/l	97
53) t-1,3-Dichloropropene	8.26	75	160107	46.70	ug/l	94
54) cis-1,3-Dichloropropene	7.28	75	213441	47.93	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	90560	48.47	ug/l	97
56) Ethyl methacrylate	8.60	69	104414	49.21	ug/l	96
57) 1,3-Dichloropropane	8.83	76	162540	50.20	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.60	63	46832	241.61	ug/l	100
59) 2-Hexanone	9.47	43	300503	273.99	ug/l	98
60) Dibromochloromethane	8.70	129	132210	49.65	ug/l	92
61) 1,2-Dibromoethane	8.97	107	99835	50.81	ug/l	100
64) Tetrachloroethene	8.13	164	135262	47.79	ug/l	99
65) Chlorobenzene	9.78	112	364574	50.54	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.91	131	149723	47.59	ug/l	99
67) Ethyl Benzene	9.88	91	626564	46.08	ug/l	99
68) m/p-Xylenes	10.12	106	448453	92.30	ug/l	97
69) o-Xylene	10.70	106	269187	49.28	ug/l	90
70) Styrene	10.78	104	348009	46.94	ug/l	98
71) Bromoform	10.76	173	67709	47.86	ug/l	95
73) Isopropylbenzene	11.11	105	792960	53.52	ug/l	98
74) N-amyl acetate	11.36	43	182883	54.22	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.68	83	119266	48.69	ug/l	96
76) 1,2,3-Trichloropropane	11.78	75	86826	47.73	ug/l	100
77) Bromobenzene	11.49	156	159926	51.85	ug/l	88
78) n-propylbenzene	11.59	91	833316	48.22	ug/l	99
79) 2-Chlorotoluene	11.70	91	499901	49.77	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	617687	52.51	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	40598m	45.42	ug/l	
82) 4-Chlorotoluene	11.89	91	524125	50.94	ug/l	95
83) tert-Butylbenzene	12.12	119	658512	52.72	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	620692	51.02	ug/l	100
85) sec-Butylbenzene	12.30	105	872898	51.52	ug/l	100
86) p-Isopropyltoluene	12.44	119	714630	50.50	ug/l	95
87) 1,3-Dichlorobenzene	12.46	146	297198	48.42	ug/l	100
88) 1,4-Dichlorobenzene	12.55	146	308072	52.23	ug/l	97
89) n-Butylbenzene	12.83	91	725878	50.27	ug/l	97
90) Hexachloroethane	12.91	117	181618	52.48	ug/l	93
91) 1,2-Dichlorobenzene	12.93	146	284172	49.17	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	21619	46.96	ug/l	93

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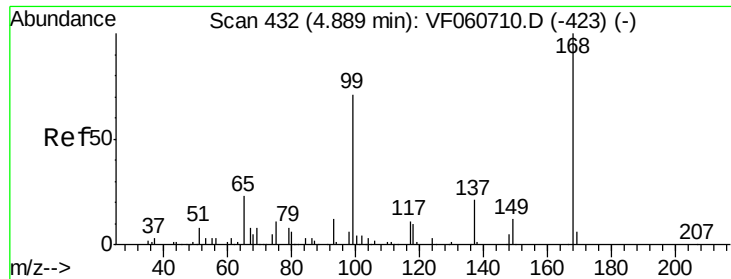
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	200649	48.31	ug/l	97
94) Hexachlorobutadiene	14.18	225	141338	52.07	ug/l	97
95) Naphthalene	14.45	128	396923	52.37	ug/l	100
96) 1,2,3-Trichlorobenzene	14.59	180	193606	50.44	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

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Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 168 Resp: 220803

Ion Ratio Lower Upper

168 100

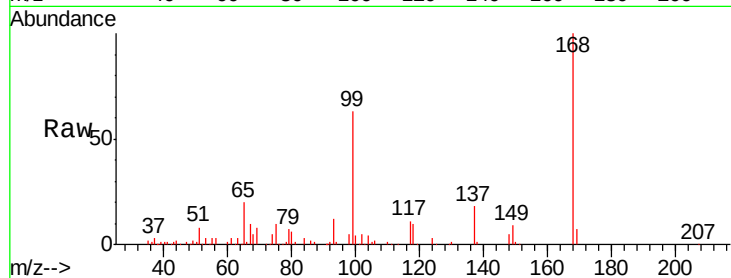
99 62.7 57.2 85.8

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

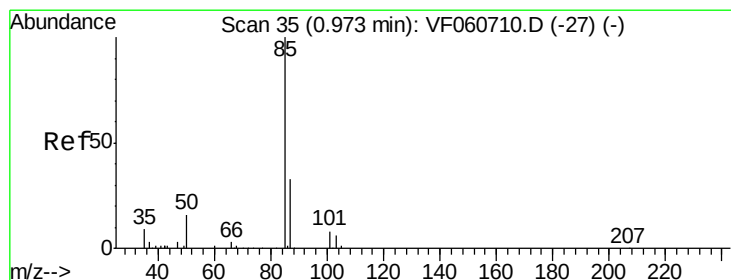
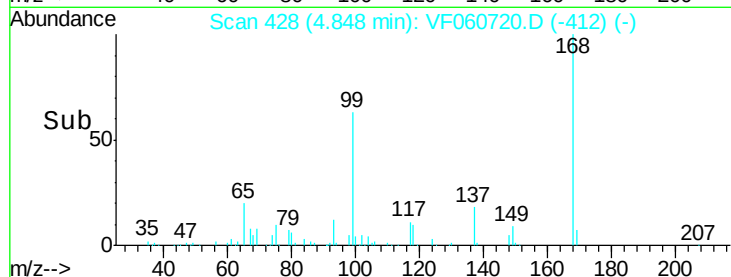
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 50.31 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060720.D

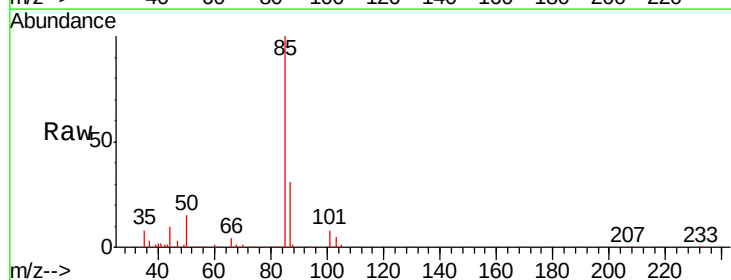
Acq: 14 Nov 2018 11:48

Tgt Ion: 85 Resp: 198817

Ion Ratio Lower Upper

85 100

87 30.7 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

60000

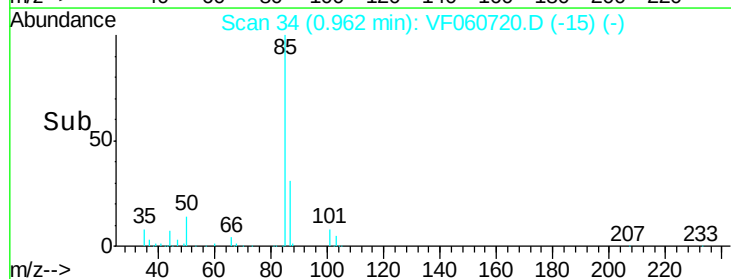
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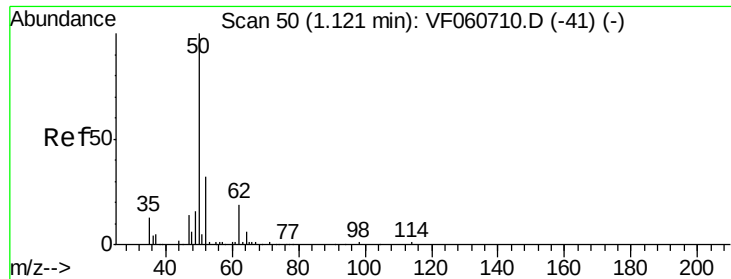
20000

0

0.80 1.00 1.20

Time-->





#3

Chloromethane

Concen: 50.52 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 123817

Ion Ratio Lower Upper

50 100

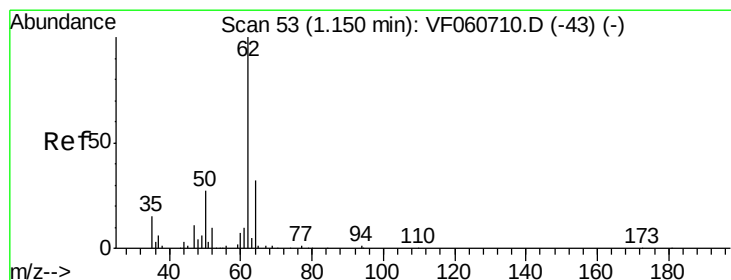
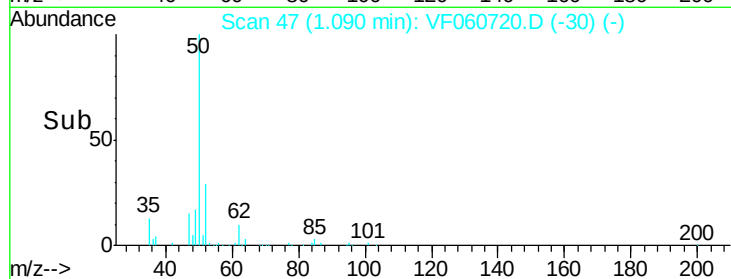
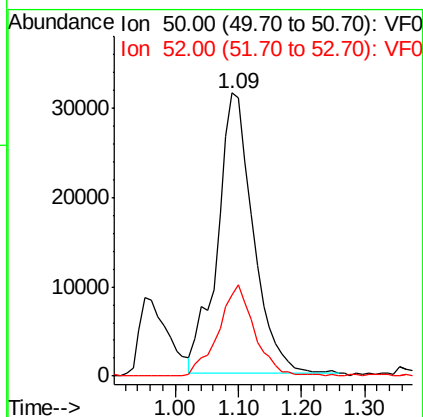
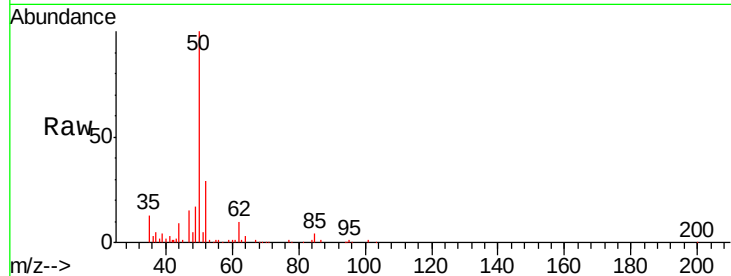
52 28.8 24.2 36.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 53.16 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060720.D

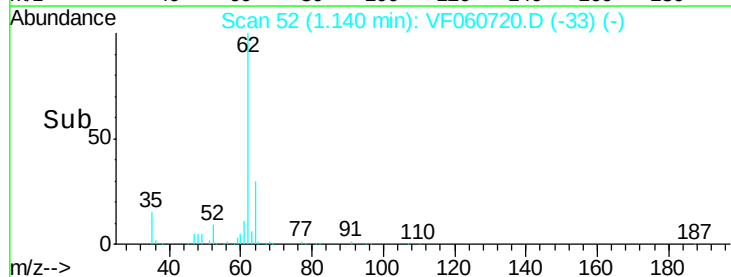
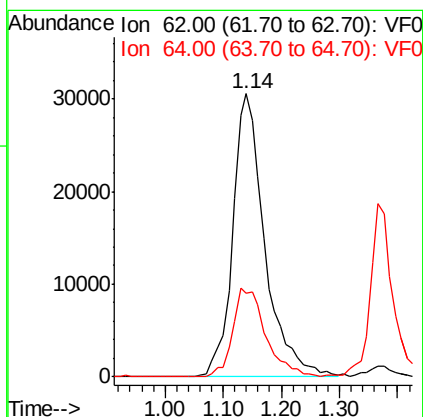
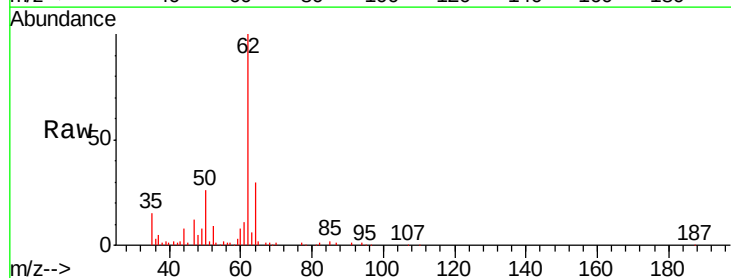
Acq: 14 Nov 2018 11:48

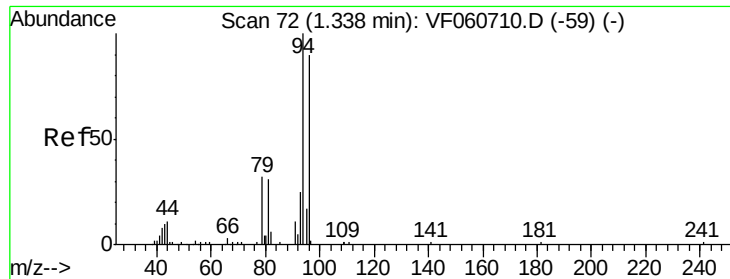
Tgt Ion: 62 Resp: 116540

Ion Ratio Lower Upper

62 100

64 29.5 25.8 38.8





#5

Bromomethane

Concen: 54.89 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 76432

Ion Ratio Lower Upper

94 100

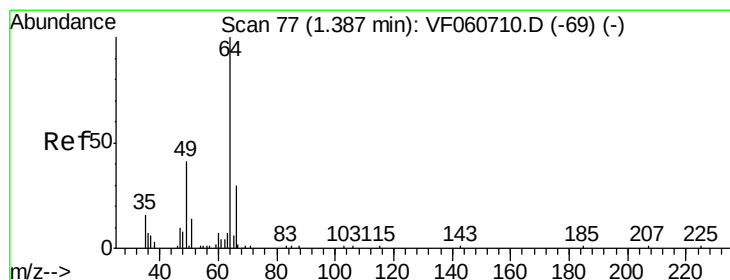
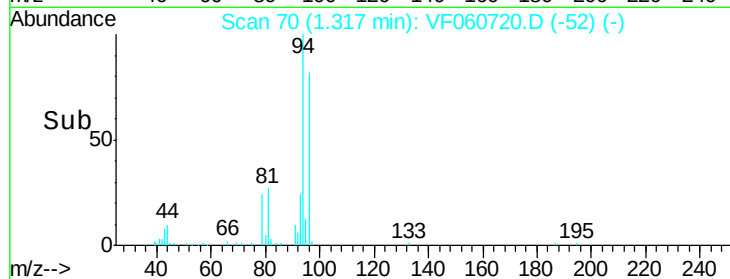
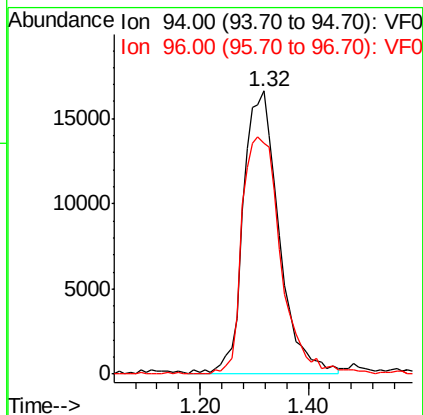
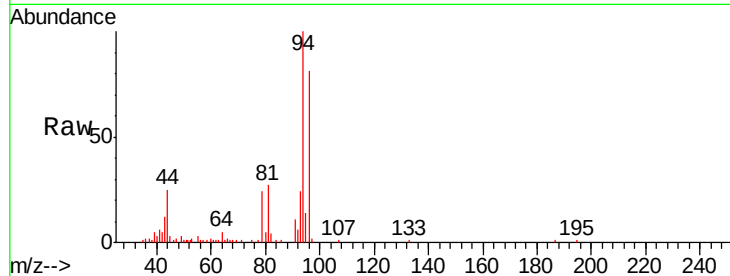
96 81.4 71.9 107.9

Manual Integrations

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#6

Chloroethane

Concen: 58.38 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF060720.D

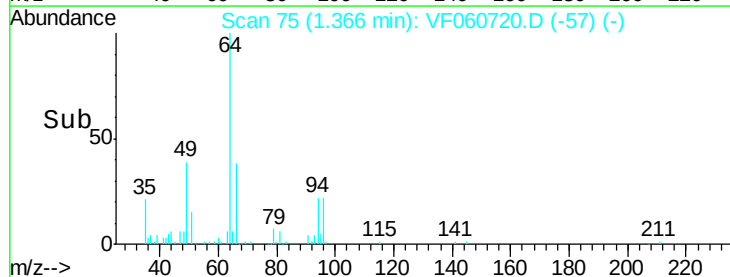
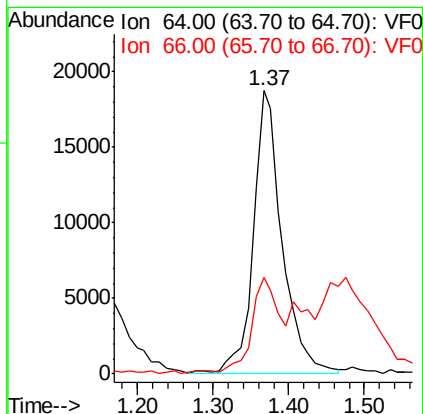
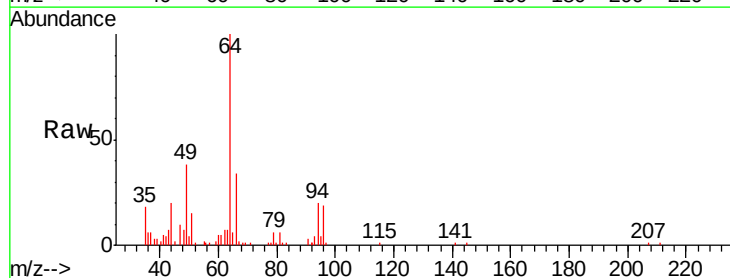
Acq: 14 Nov 2018 11:48

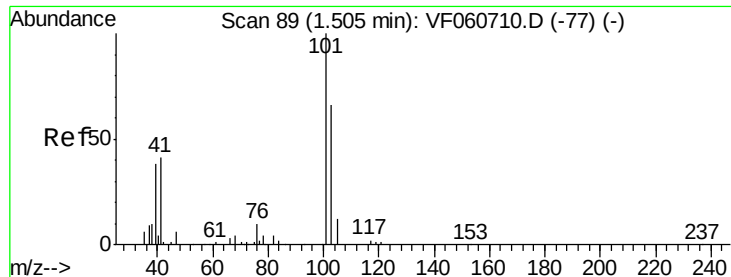
Tgt Ion: 64 Resp: 50075

Ion Ratio Lower Upper

64 100

66 34.1 24.8 37.2





#7

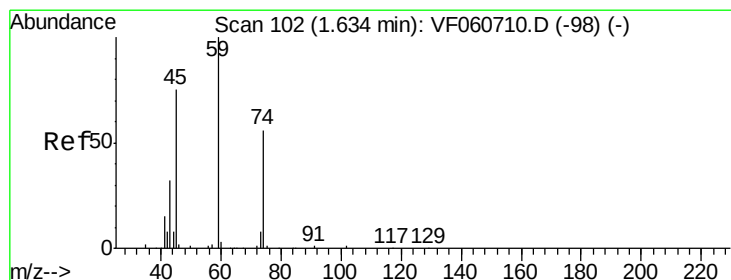
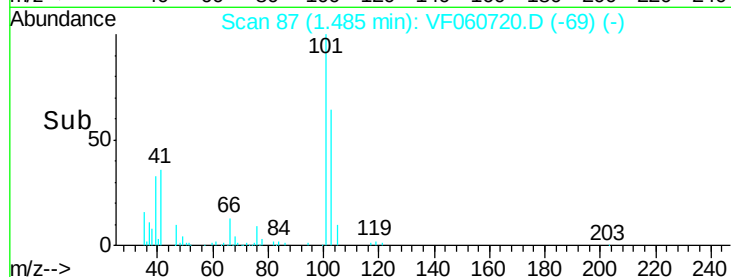
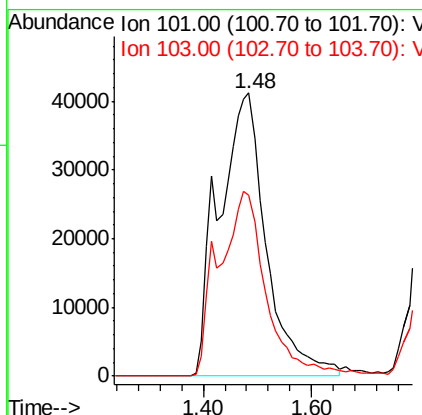
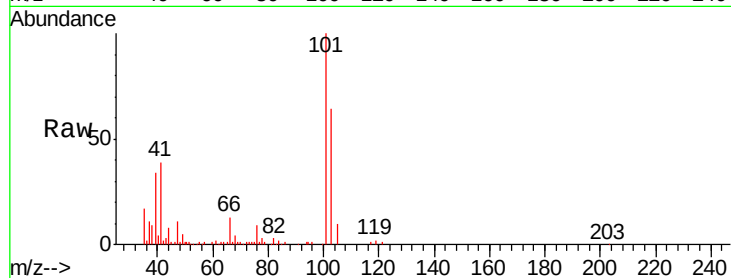
Trichlorofluoromethane
Concen: 51.75 ug/l m
RT: 1.48 min Scan# 87
Delta R.T. -0.02 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
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ClientSampleId :
VSTDCCC050

Tgt Ion: 101 Resp: 250892
Ion Ratio Lower Upper
101 100
103 64.1 53.1 79.7

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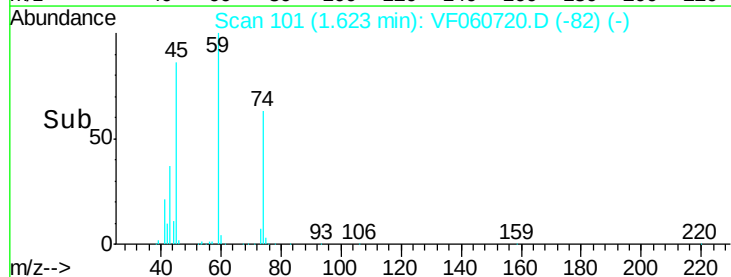
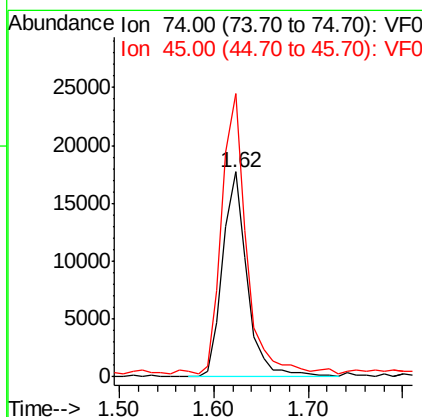
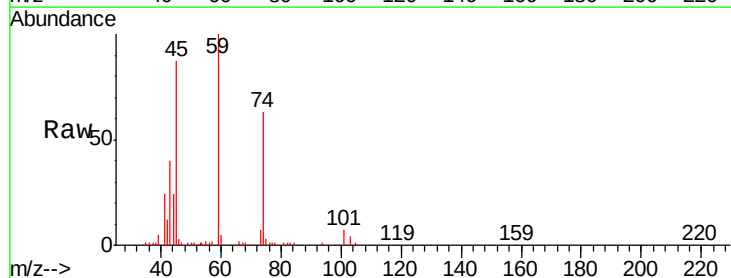
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11/15/2018 1:30:39 PM

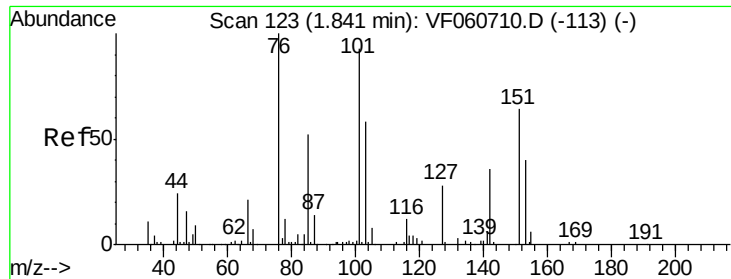


#8

Diethyl Ether
Concen: 51.23 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion: 74 Resp: 31823
Ion Ratio Lower Upper
74 100
45 138.2 67.7 203.1





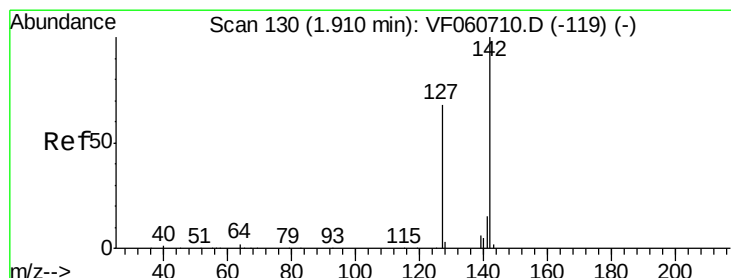
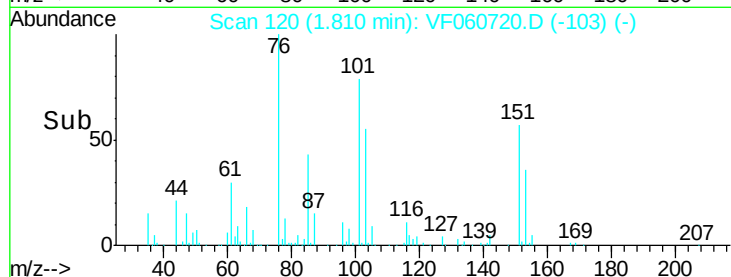
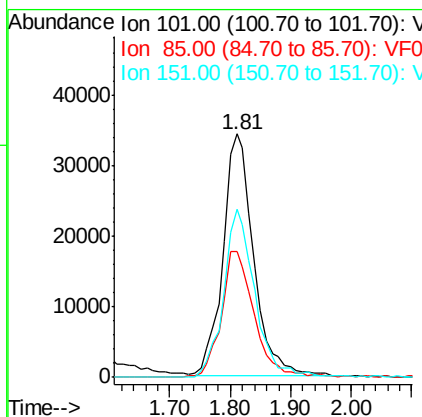
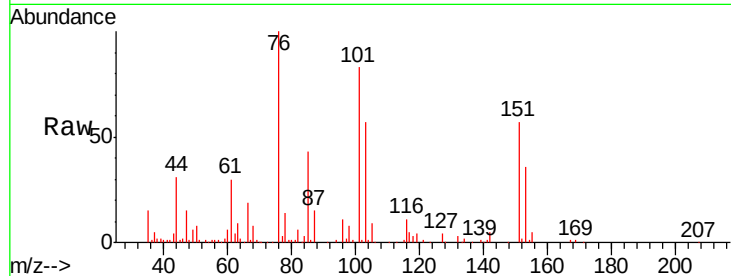
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 52.81 ug/l
 RT: 1.81 min Scan# 120
 Delta R.T. -0.03 min
 Lab File: VF060720.D
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	120645		
85	51.5	43.6	65.4	
151	68.9	53.1	79.7	

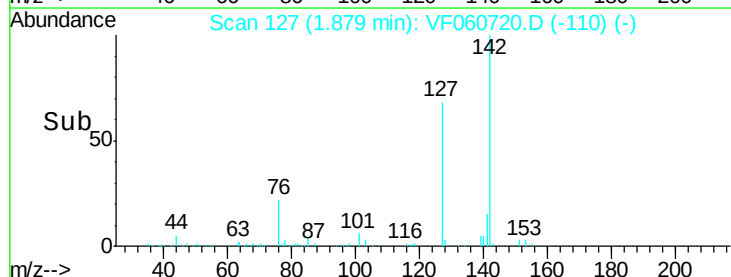
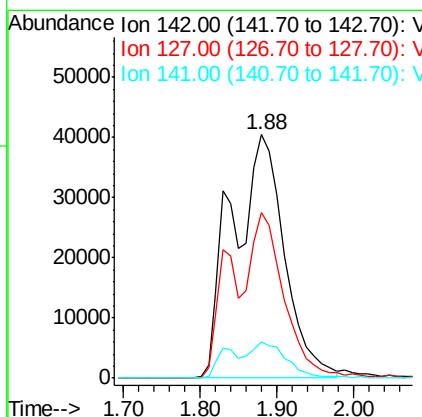
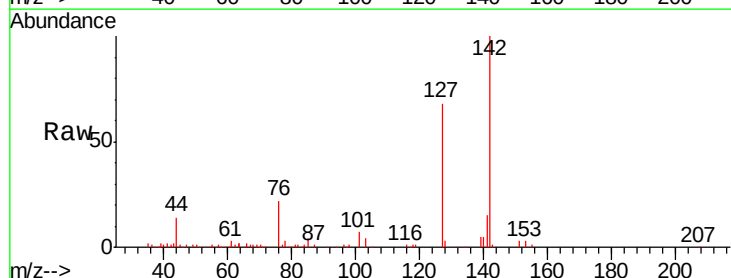
Manual Integrations
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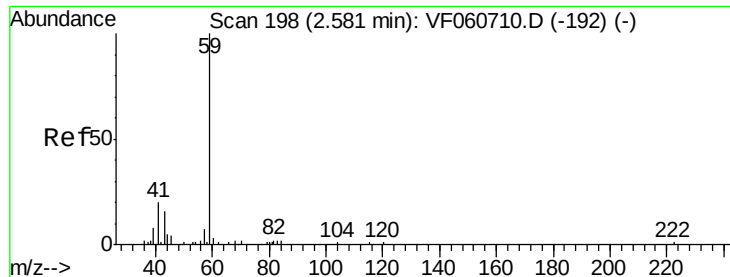
MMDadoda
 11/15/2018 1:30:39 PM



#10
 Methyl Iodide
 Concen: 51.78 ug/l m
 RT: 1.88 min Scan# 127
 Delta R.T. -0.03 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	189800		
127	68.1	54.0	81.0	
141	14.8	12.3	18.5	





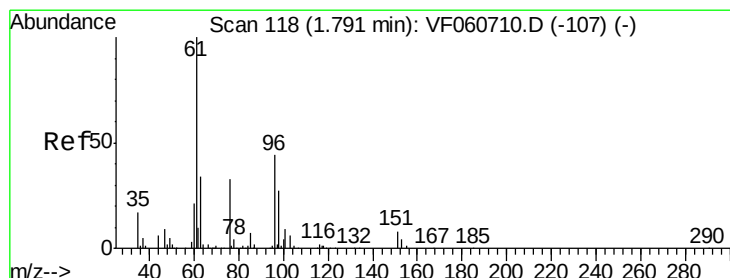
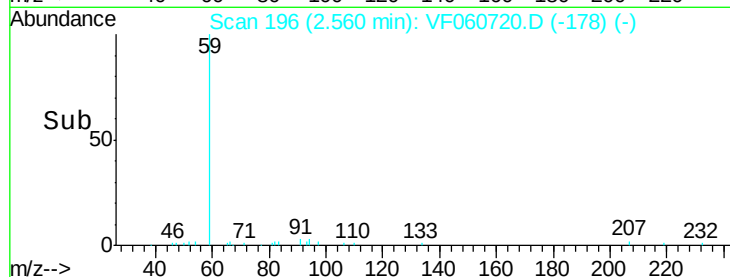
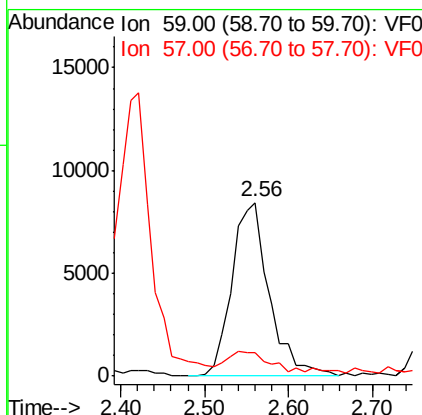
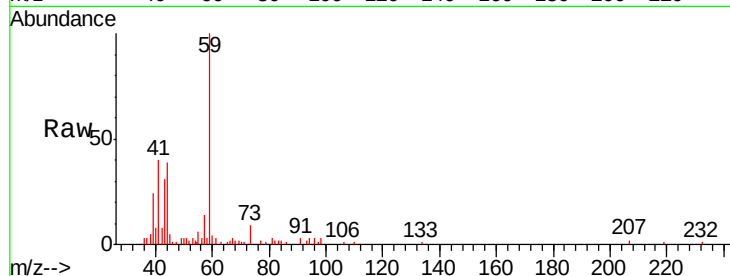
#11
Tert butyl alcohol
Concen: 228.07 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 26141
Ion Ratio Lower Upper
59 100
57 13.5 10.5 15.7

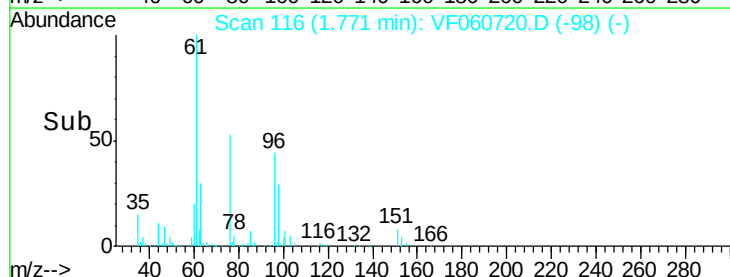
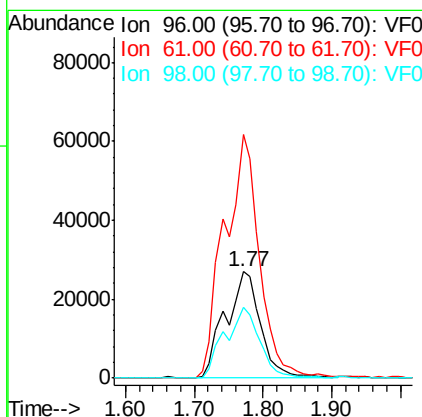
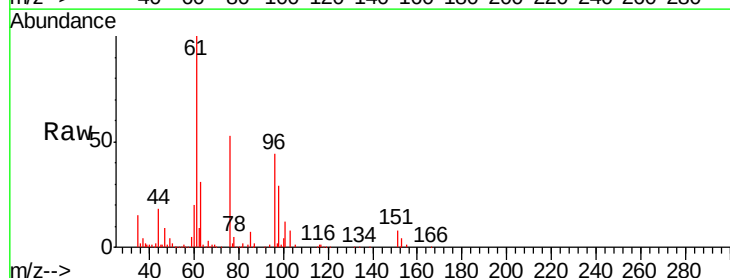
Manual Integrations
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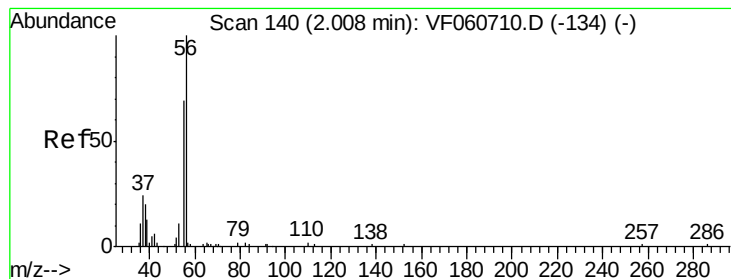
MMDadoda
11/15/2018 1:30:39 PM



#12
1,1-Dichloroethene
Concen: 53.18 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion: 96 Resp: 95805
Ion Ratio Lower Upper
96 100
61 228.6 182.2 273.2
98 66.8 49.2 73.8





#13

Acrolein

Concen: 277.69 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 29103

Ion Ratio Lower Upper

56 100

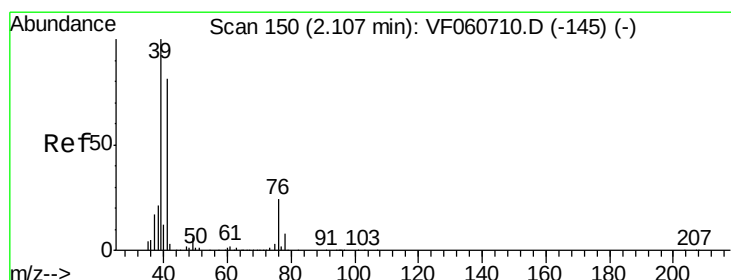
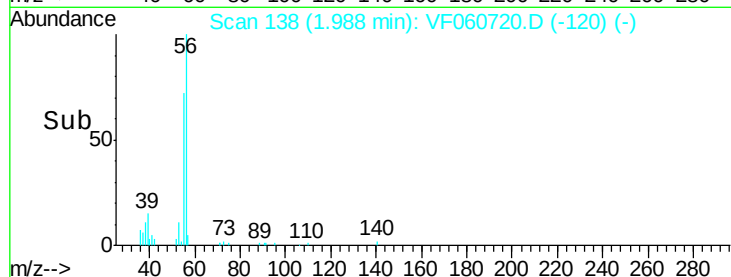
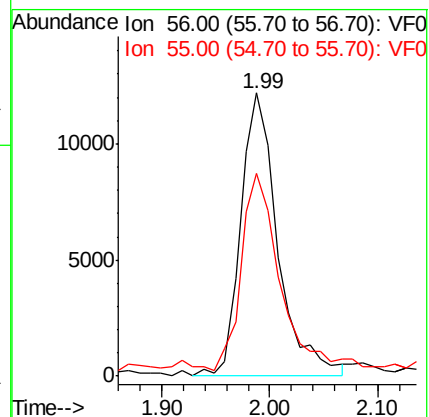
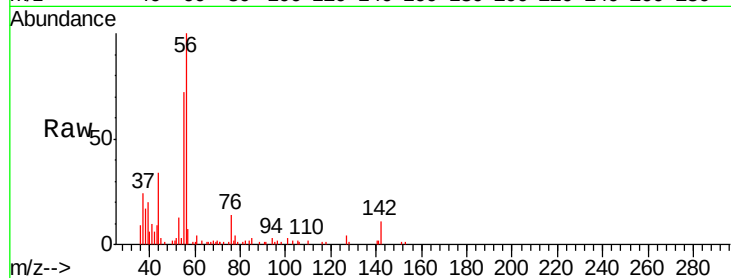
55 71.8 56.6 85.0

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 54.22 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

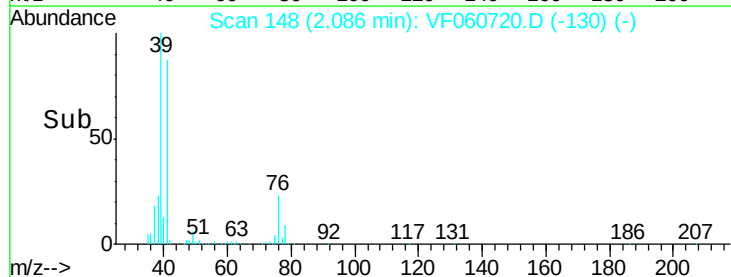
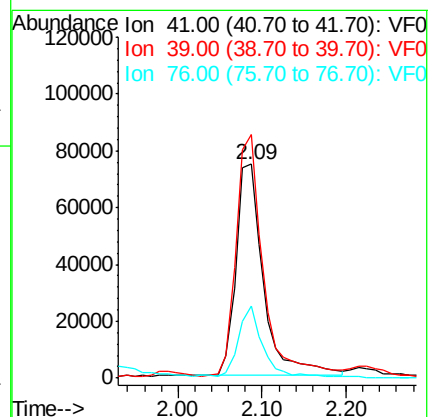
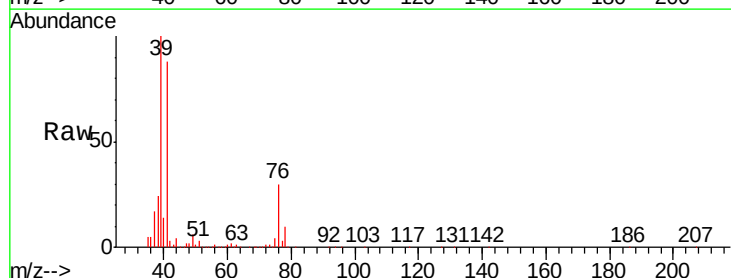
Tgt Ion: 41 Resp: 171116

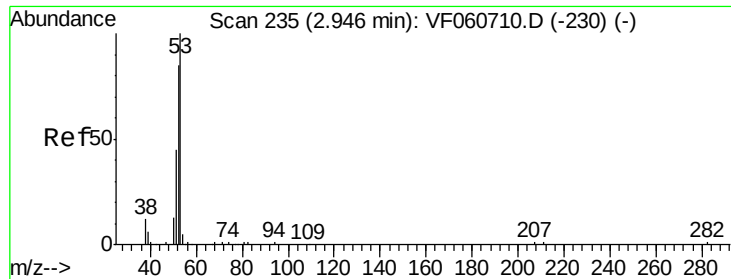
Ion Ratio Lower Upper

41 100

39 113.9 98.5 147.7

76 33.8 24.5 36.7





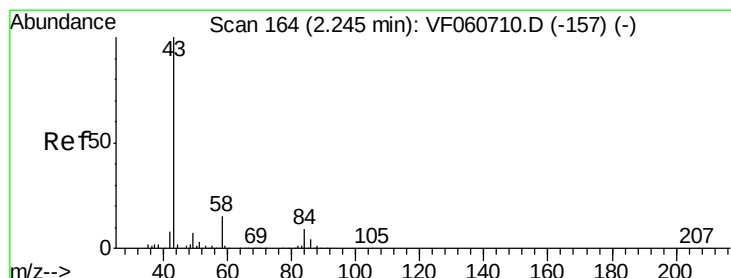
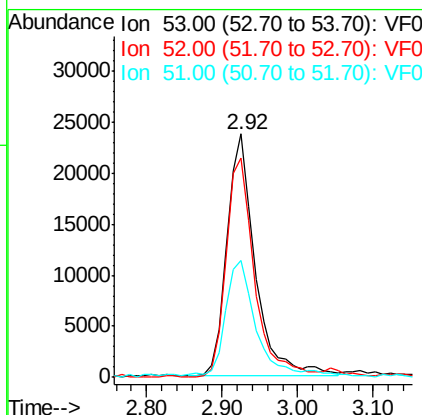
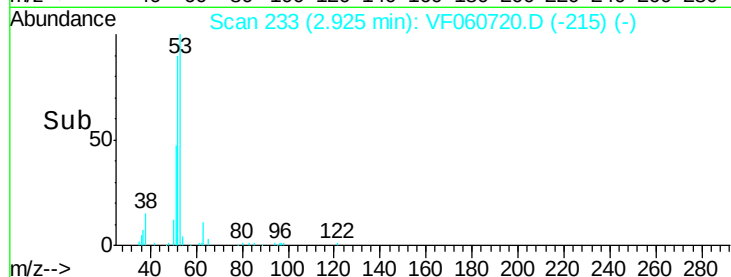
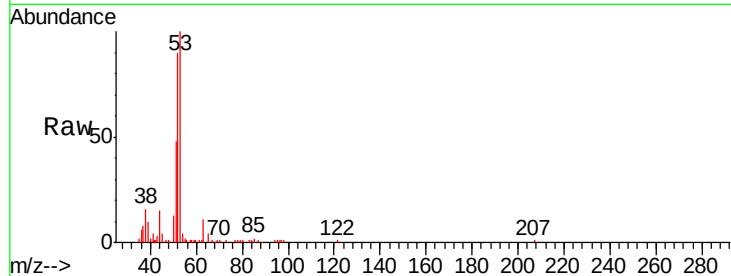
#15
 Acrylonitrile
 Concen: 250.84 ug/l
 RT: 2.92 min Scan# 233
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
53	100		
52	89.9	68.8	103.2
51	47.8	36.7	55.1

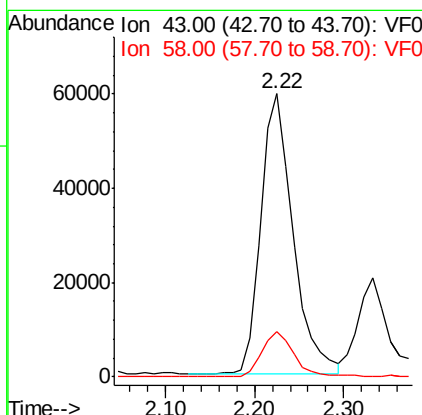
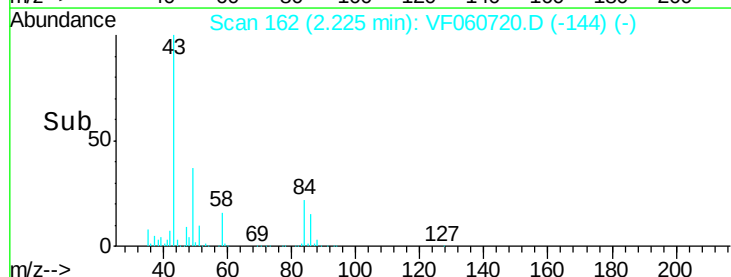
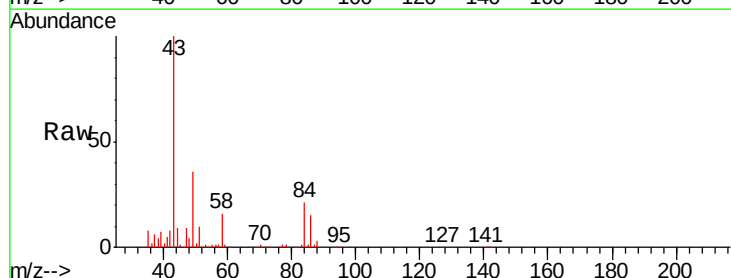
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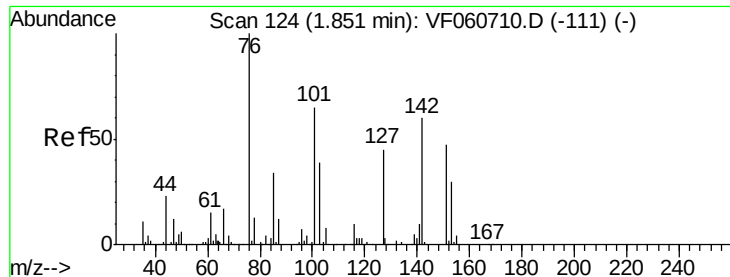
MMDadoda
 11/15/2018 1:30:39 PM



#16
 Acetone
 Concen: 277.06 ug/l
 RT: 2.22 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.0	11.6	17.4





#17

Carbon Disulfide

Concen: 54.13 ug/l m

RT: 1.79 min Scan# 118

Delta R.T. -0.06 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 294734

Ion Ratio Lower Upper

76 100

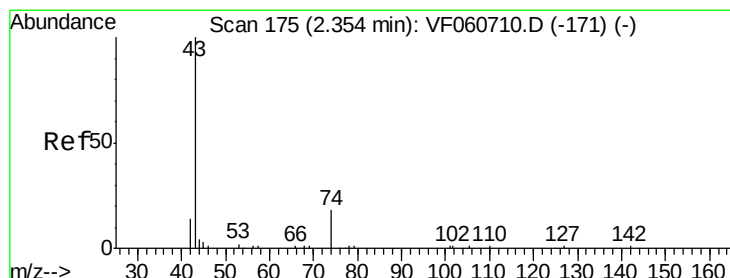
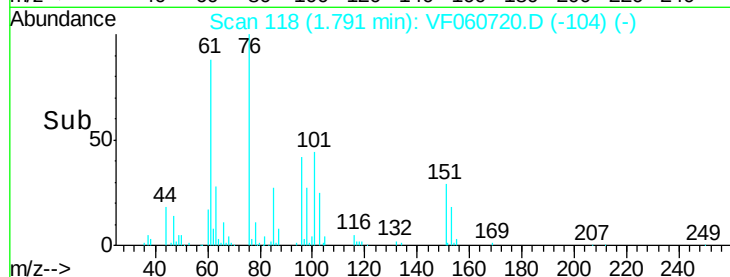
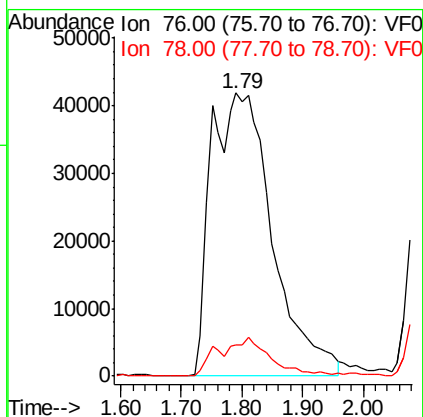
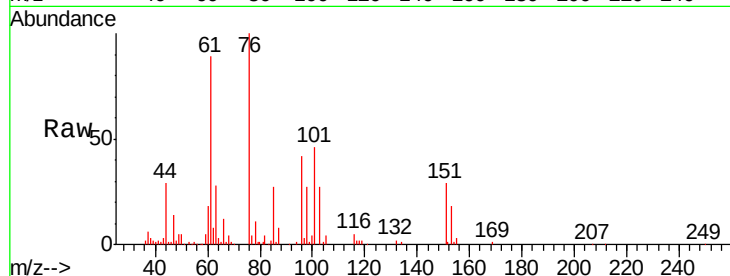
78 11.2 10.5 15.7

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#18

Methyl Acetate

Concen: 47.97 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF060720.D

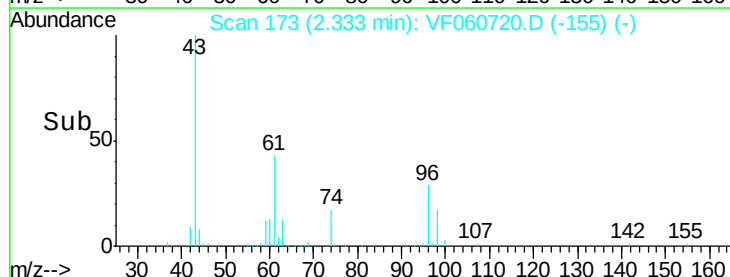
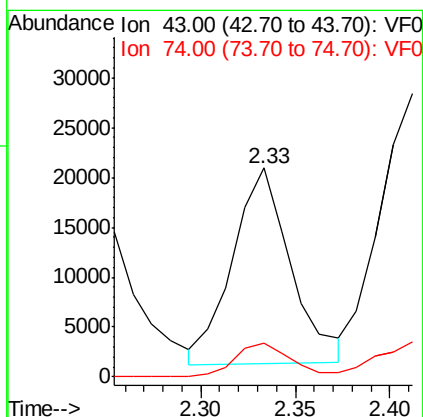
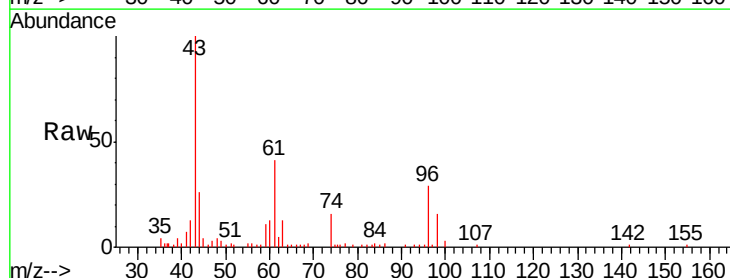
Acq: 14 Nov 2018 11:48

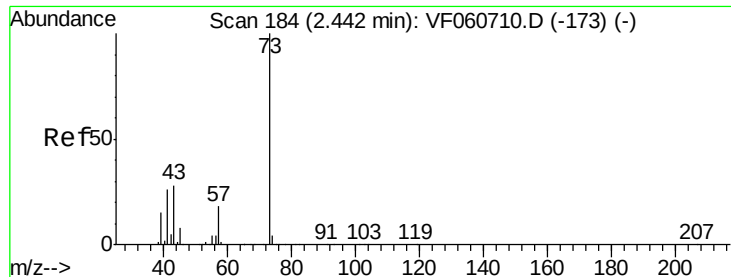
Tgt Ion: 43 Resp: 42403

Ion Ratio Lower Upper

43 100

74 16.3 11.8 17.8





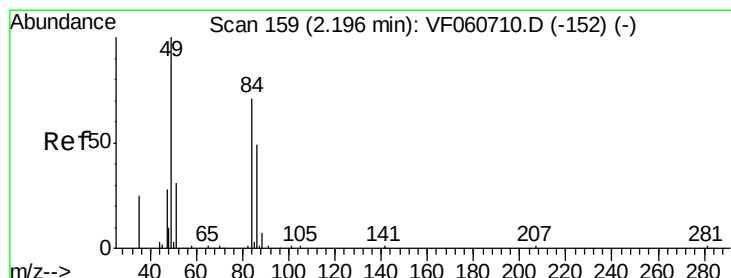
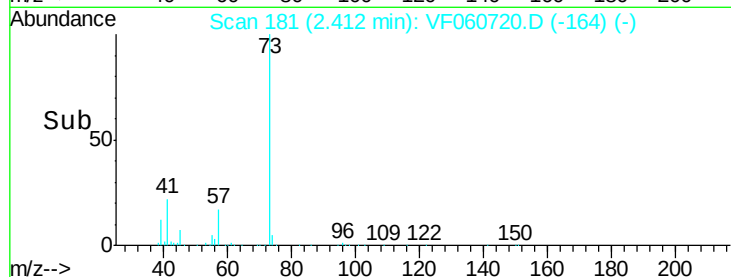
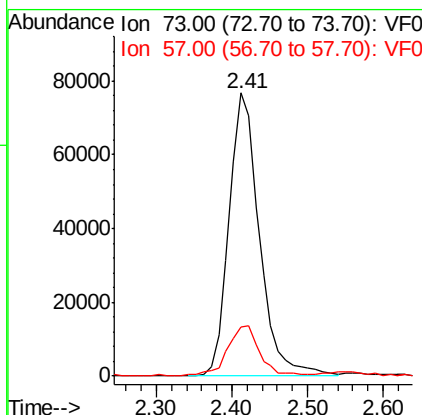
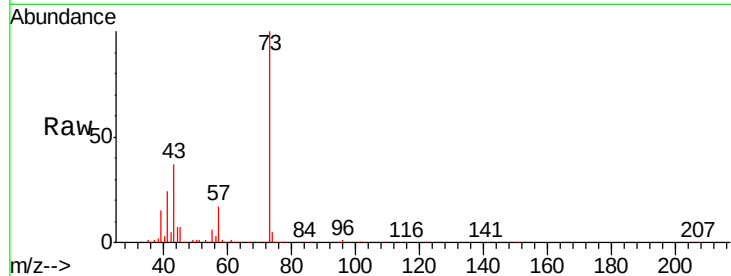
#19
Methyl tert-butyl Ether
Concen: 49.33 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 213171
Ion Ratio Lower Upper
73 100
57 17.5 14.3 21.5

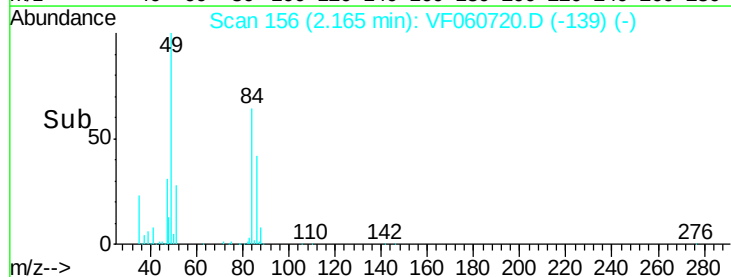
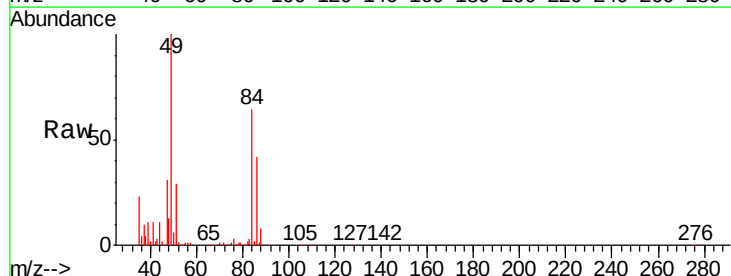
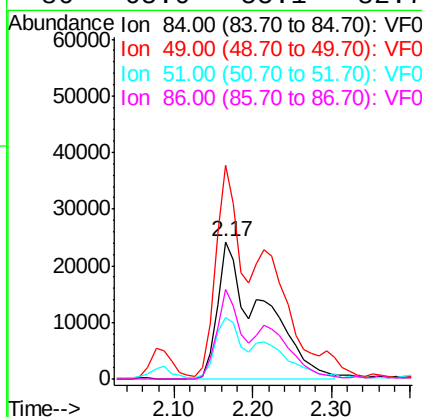
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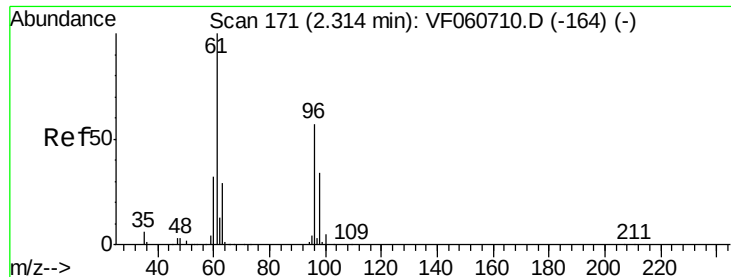
MMDadoda
11/15/2018 1:30:39 PM



#20
Methylene Chloride
Concen: 53.76 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion: 84 Resp: 95801
Ion Ratio Lower Upper
84 100
49 155.8 120.2 180.4
51 44.8 37.2 55.8
86 65.0 55.1 82.7





#21

trans-1,2-Dichloroethene

Concen: 52.20 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

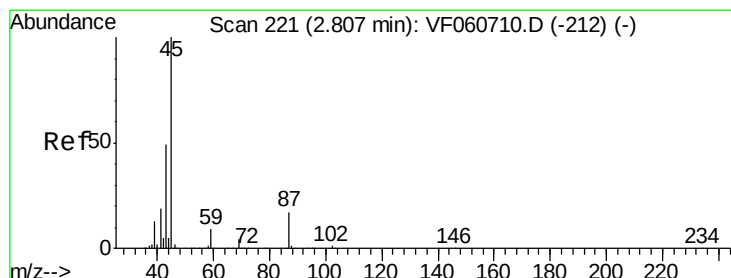
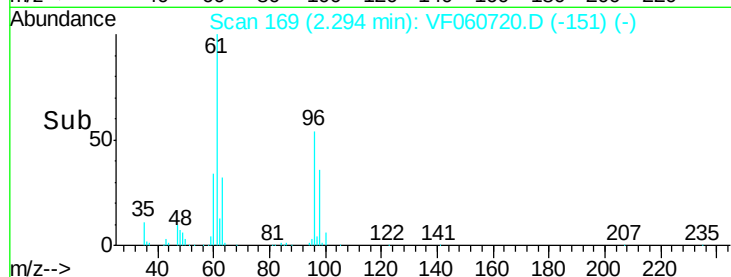
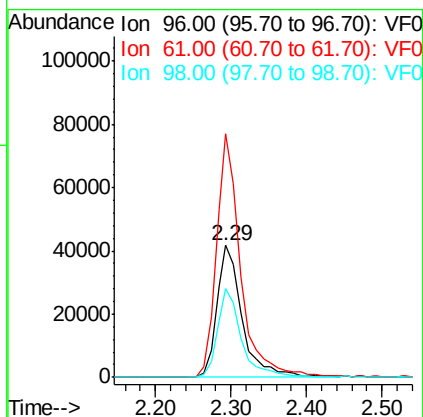
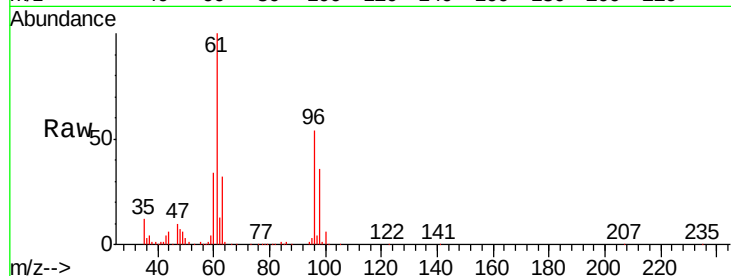
ClientSampleId :

VSTDCCC050

Tgt Ion:	96	Resp:	98236
Ion	Ratio	Lower	Upper
96	100		
61	184.3	141.6	212.4
98	66.8	47.4	71.0

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11/15/2018 1:30:39 PM



#22

Diisopropyl ether

Concen: 51.90 ug/l

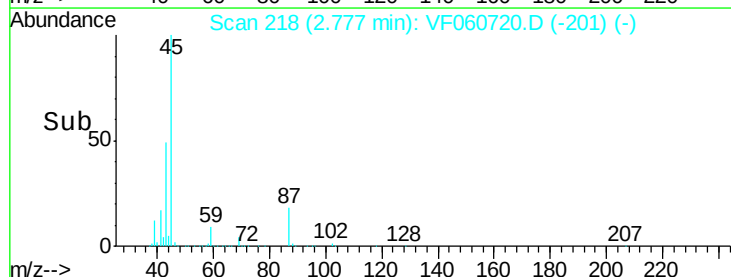
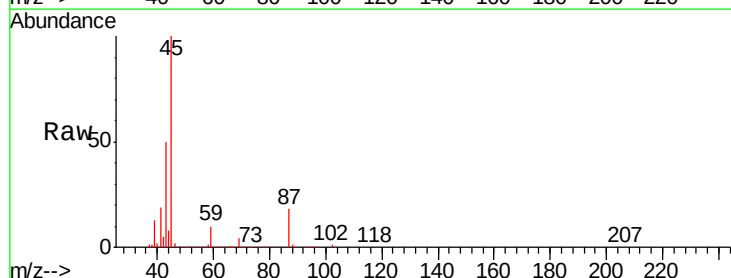
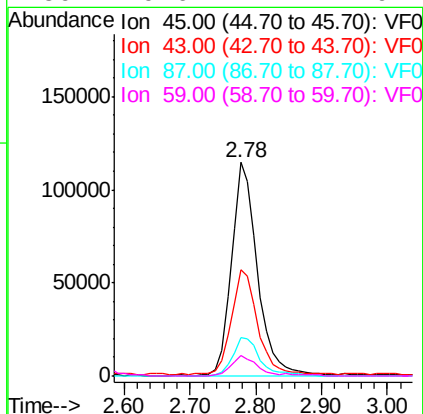
RT: 2.78 min Scan# 218

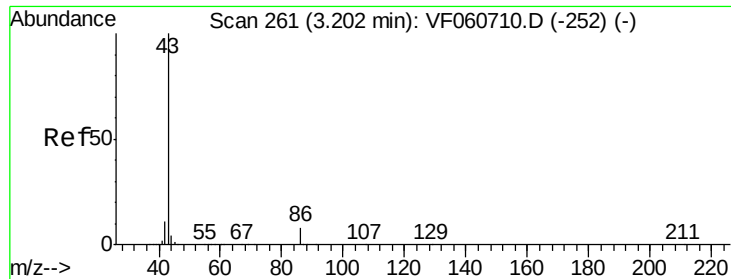
Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	45	Resp:	316208
Ion	Ratio	Lower	Upper
45	100		
43	49.6	39.9	59.9
87	17.8	13.9	20.9
59	9.6	7.1	10.7





#23

Vinyl Acetate

Concen: 265.71 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 762341

Ion Ratio Lower Upper

43 100

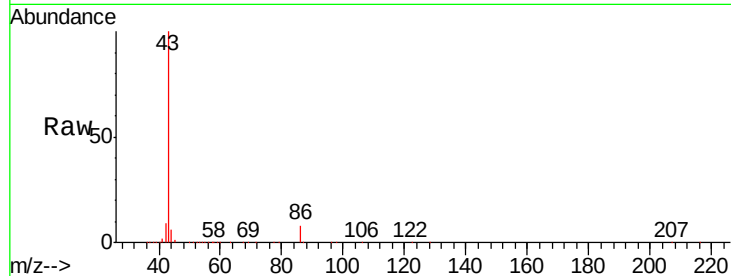
86 8.0 6.4 9.6

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

300000

250000

200000

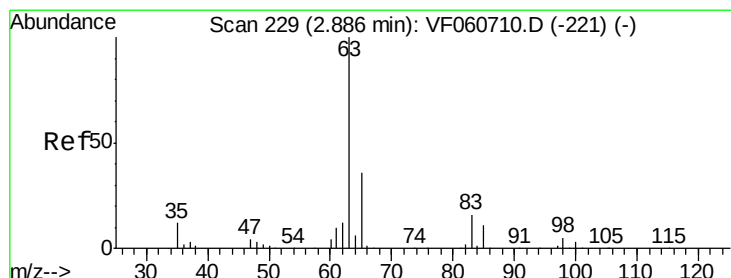
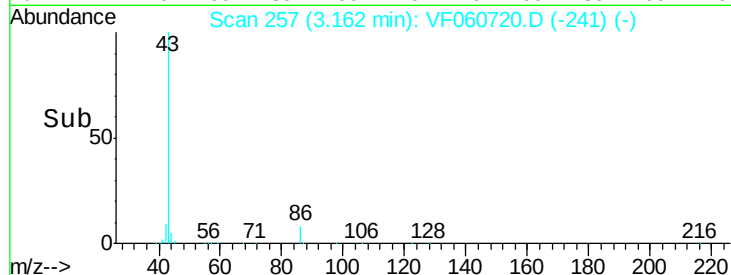
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 54.04 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

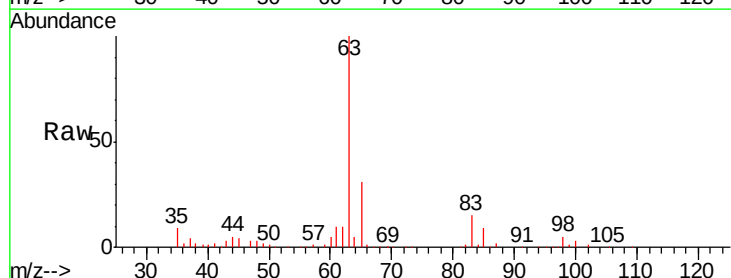
Tgt Ion: 63 Resp: 199323

Ion Ratio Lower Upper

63 100

98 5.2 2.4 7.1

100 2.7 1.4 4.2



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

100000

80000

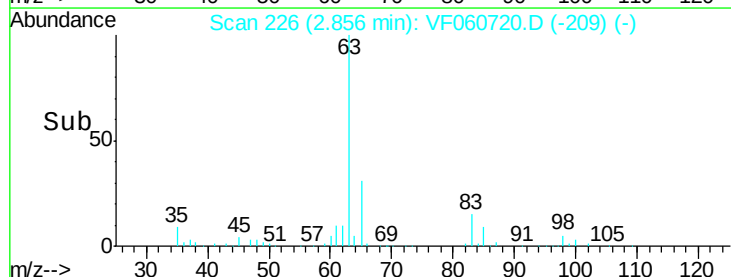
60000

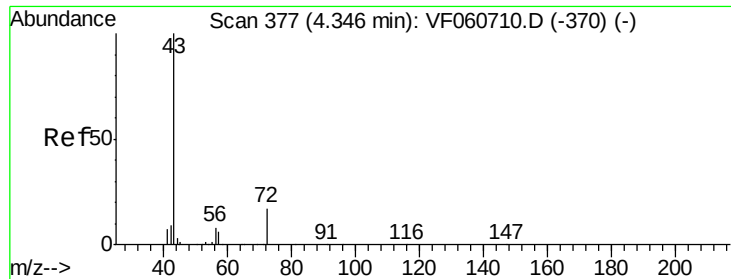
40000

20000

0

Time-->





#25

2-Butanone

Concen: 270.12 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 239173

Ion Ratio Lower Upper

43 100

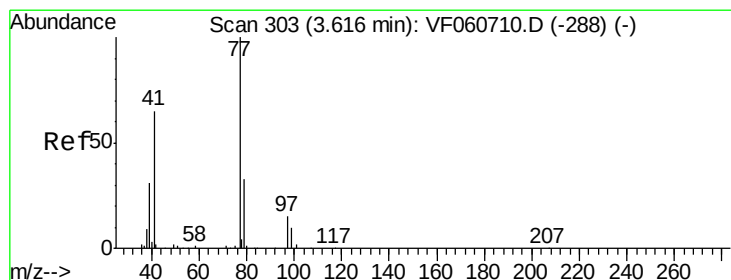
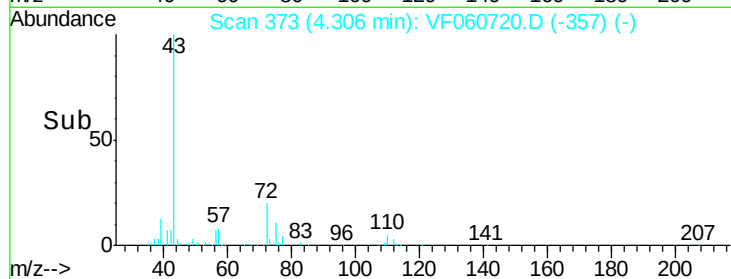
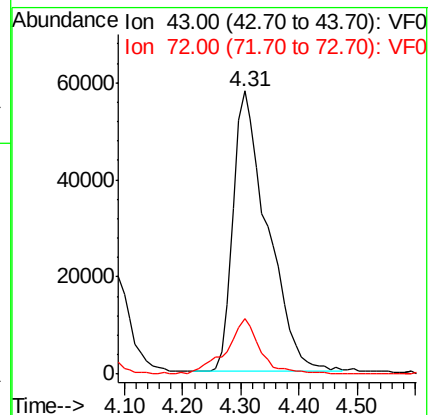
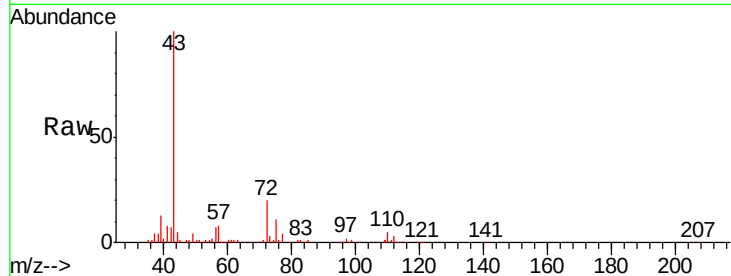
72 19.5 16.1 24.1

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 54.56 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF060720.D

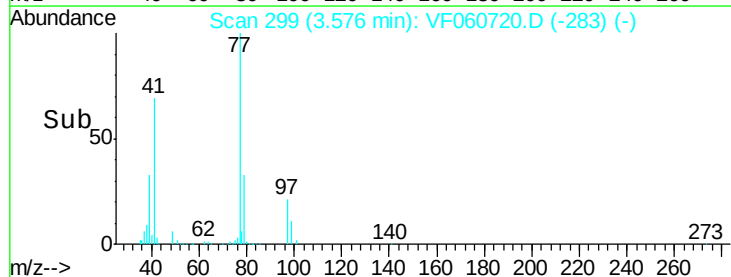
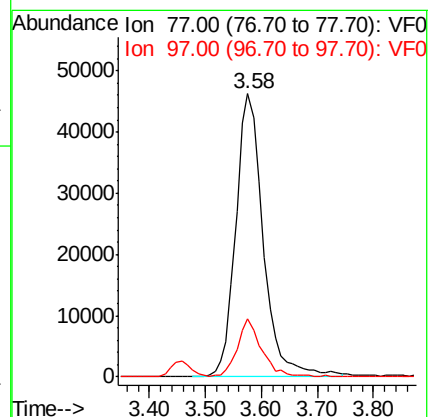
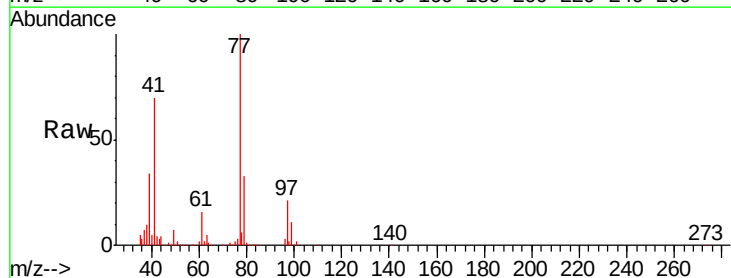
Acq: 14 Nov 2018 11:48

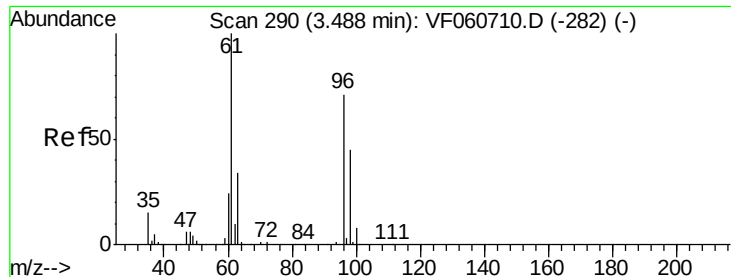
Tgt Ion: 77 Resp: 158361

Ion Ratio Lower Upper

77 100

97 20.6 8.8 26.5





#27

cis-1,2-Dichloroethene

Concen: 52.25 ug/l

RT: 3.46 min Scan# 287

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

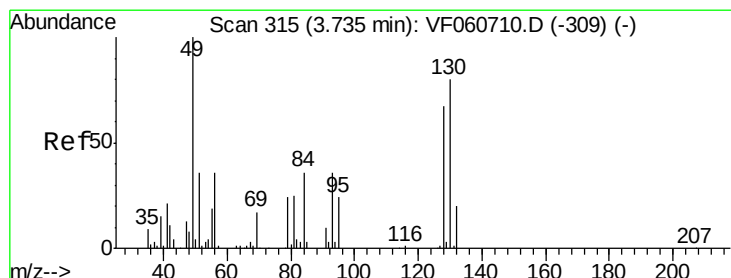
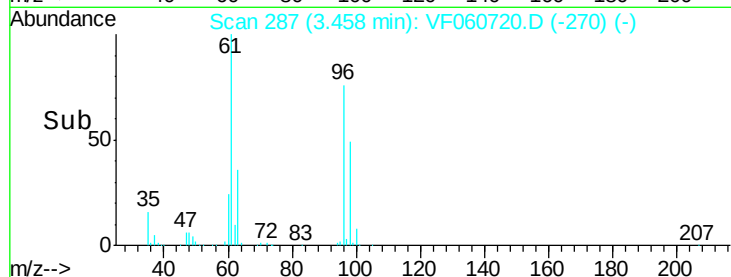
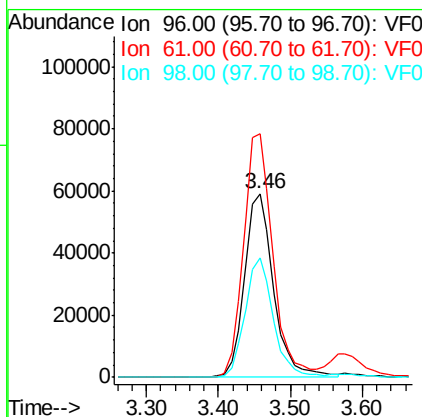
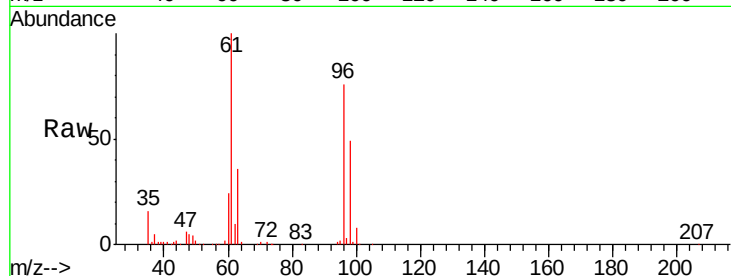
ClientSampleId :

VSTDCCC050

Tgt Ion:	96	Resp:	167299
Ion	Ratio	Lower	Upper
96	100		
61	132.4	0.0	280.6
98	65.2	0.0	127.6

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#28

Bromochloromethane

Concen: 47.49 ug/l

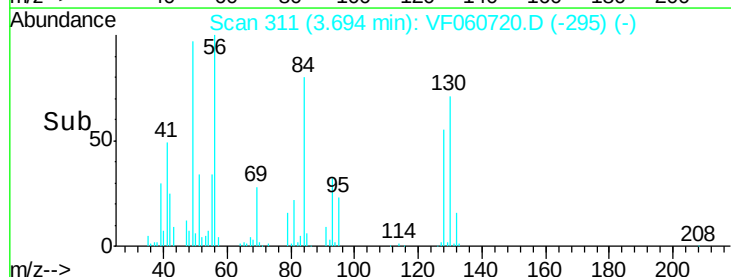
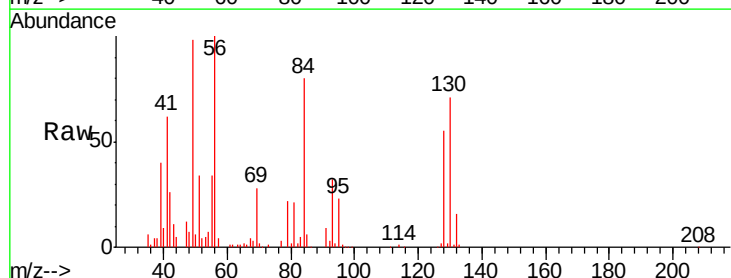
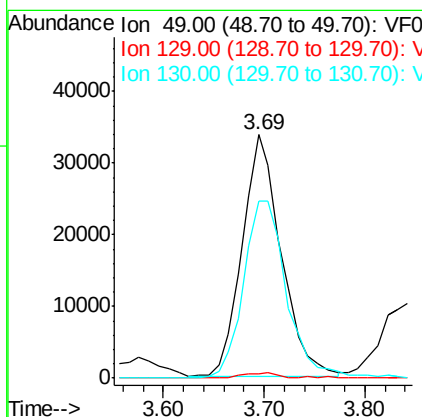
RT: 3.69 min Scan# 311

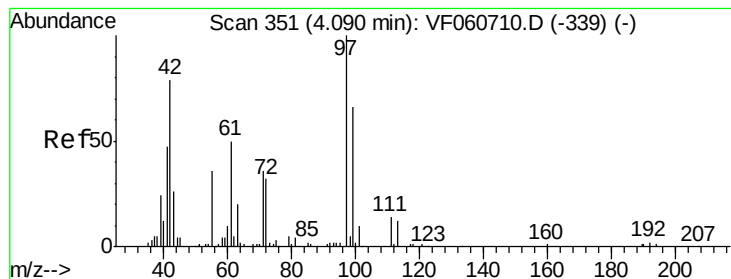
Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	49	Resp:	91037
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	5.2
130	72.7	63.9	95.9





#29

Tetrahydrofuran

Concen: 249.65 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

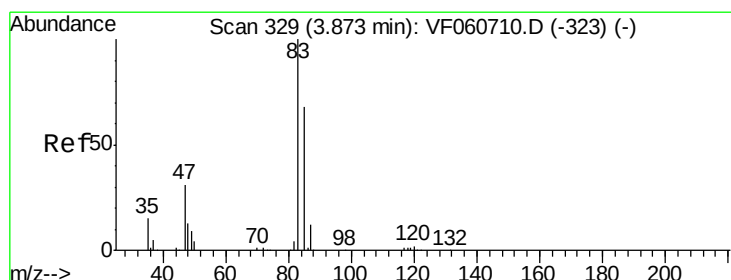
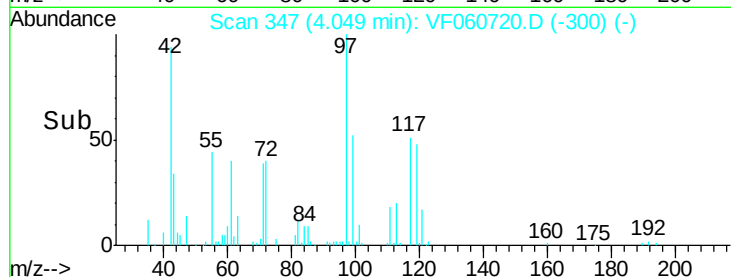
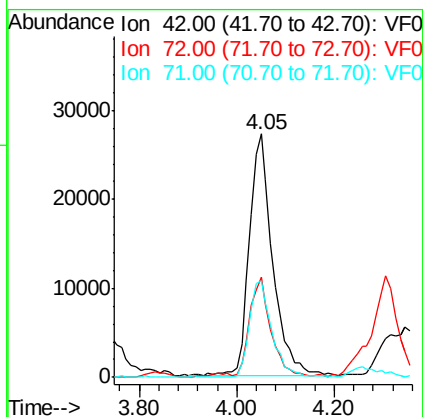
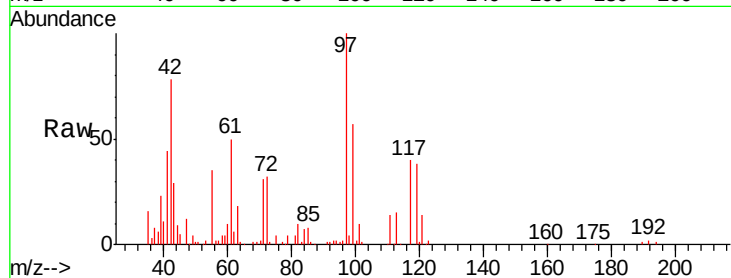
ClientSampleId :

VSTDCCC050

Tgt Ion:	42	Resp:	91179
Ion	Ratio	Lower	Upper
42	100		
72	38.1	30.3	45.5
71	38.0	32.2	48.2

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MMDadoda
11/15/2018 1:30:39 PM



#30

Chloroform

Concen: 49.39 ug/l

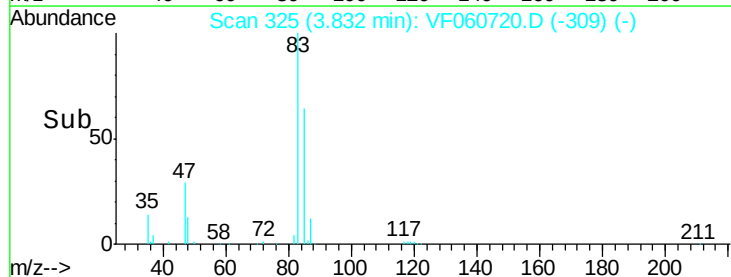
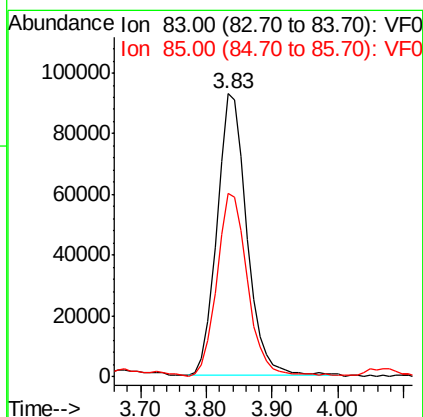
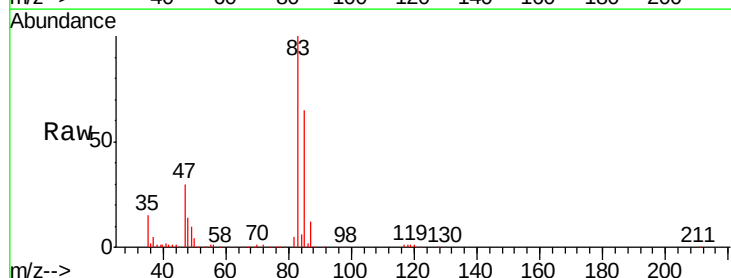
RT: 3.83 min Scan# 325

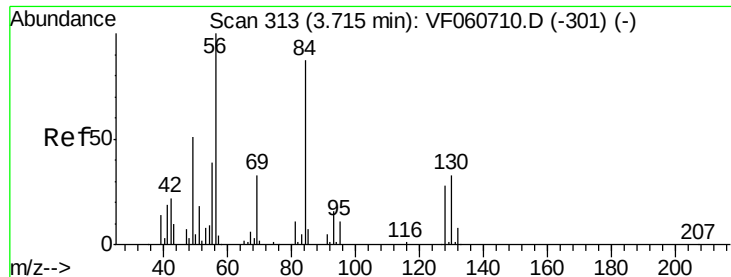
Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	83	Resp:	292295
Ion	Ratio	Lower	Upper
83	100		
85	64.9	54.6	82.0





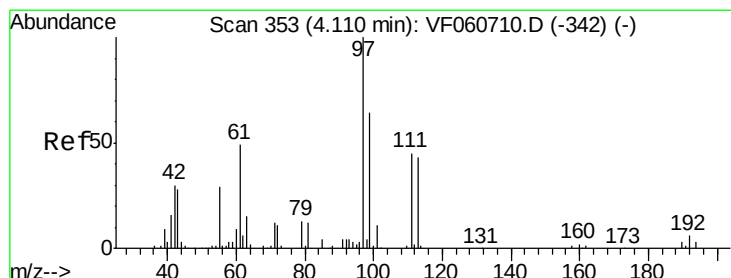
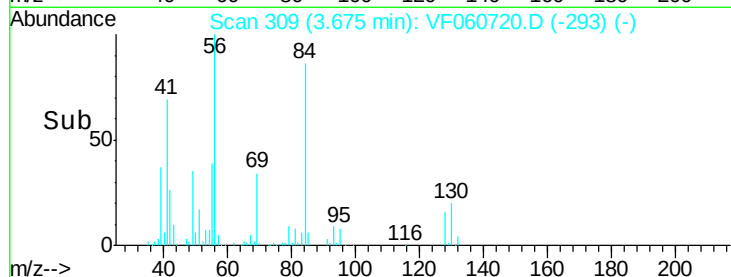
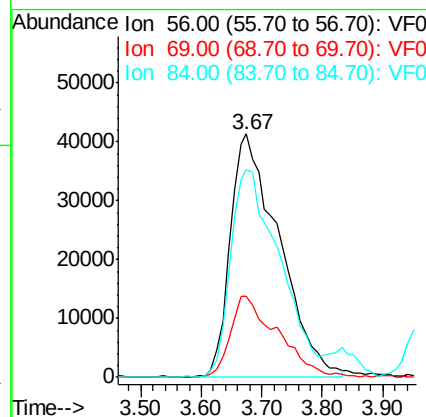
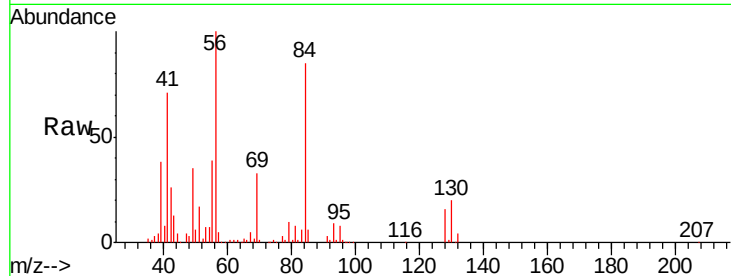
#31
Cyclohexane
Concen: 51.69 ug/l
RT: 3.67 min Scan# 309
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.4	26.0	39.0
84	85.4	69.4	104.2

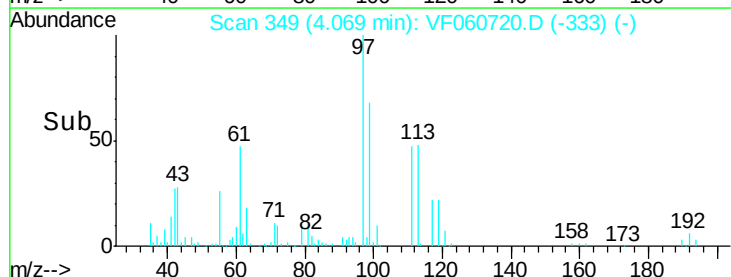
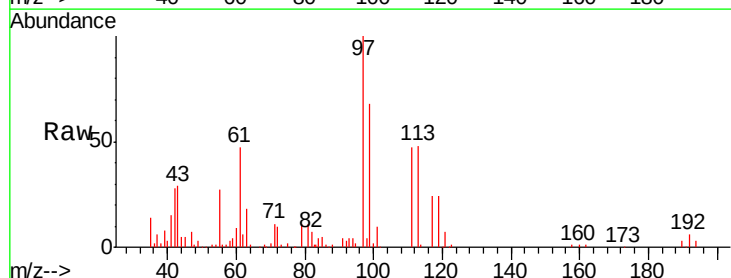
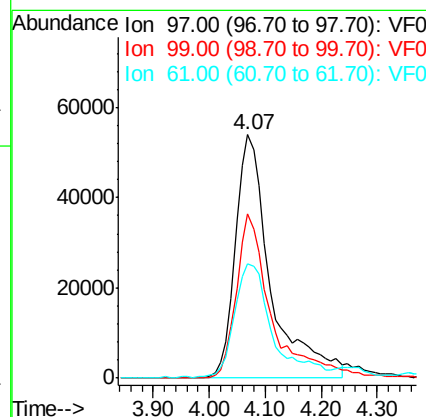
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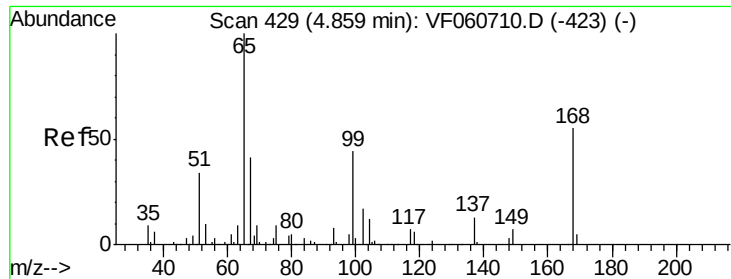
MMDadoda
11/15/2018 1:30:39 PM



#32
1,1,1-Trichloroethane
Concen: 50.92 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.6	51.1	76.7
61	47.1	40.1	60.1





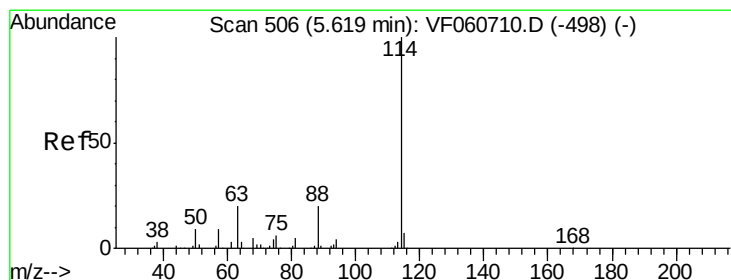
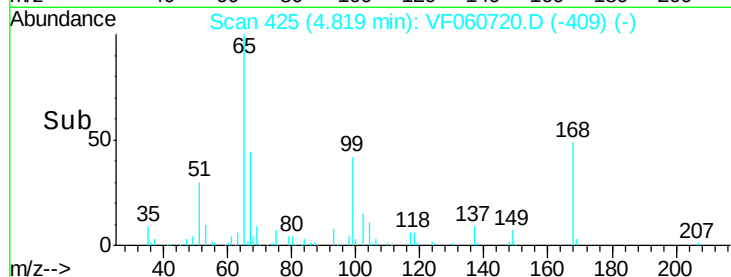
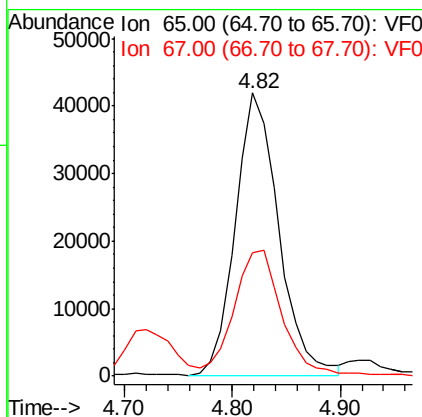
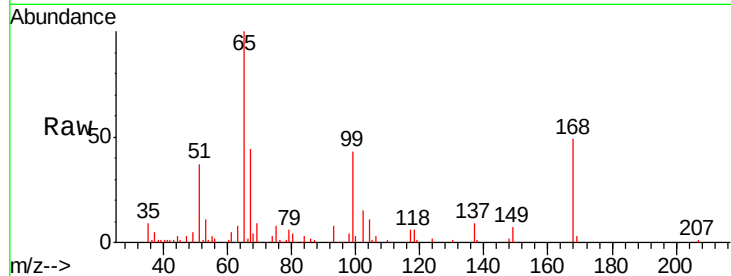
#33
 1,2-Dichloroethane-d4
 Concen: 46.15 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 65 Resp: 116227
 Ion Ratio Lower Upper
 65 100
 67 43.7 0.0 90.2

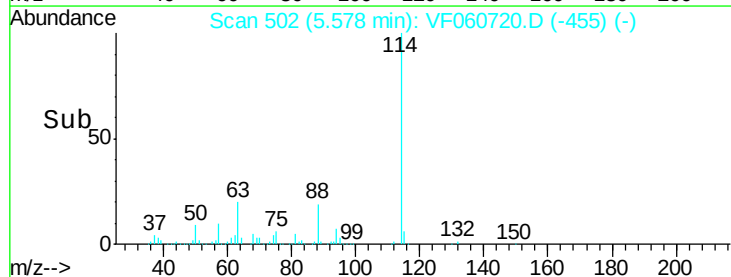
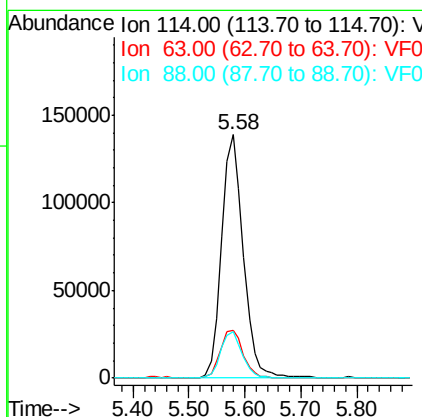
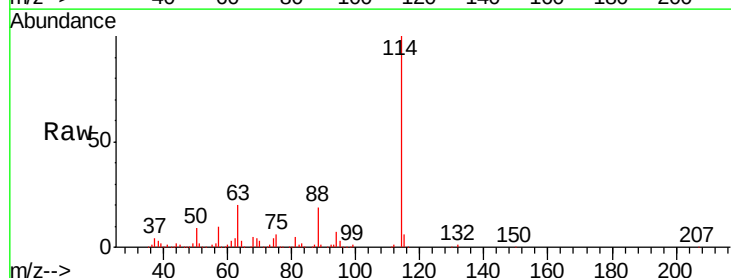
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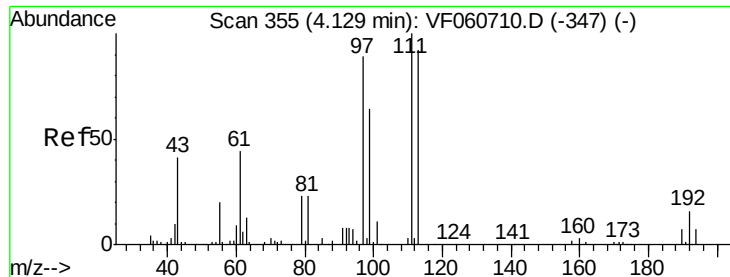
MMDadoda
 11/15/2018 1:30:39 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.04 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion: 114 Resp: 377454
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.8
 88 18.9 0.0 39.6





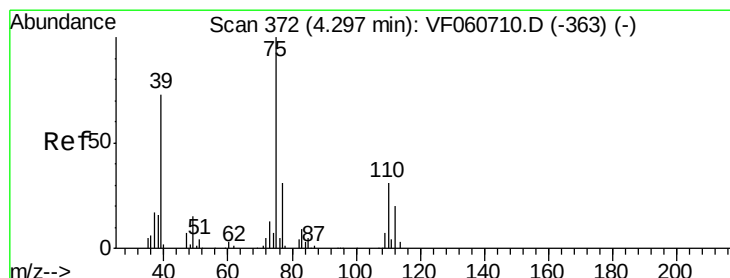
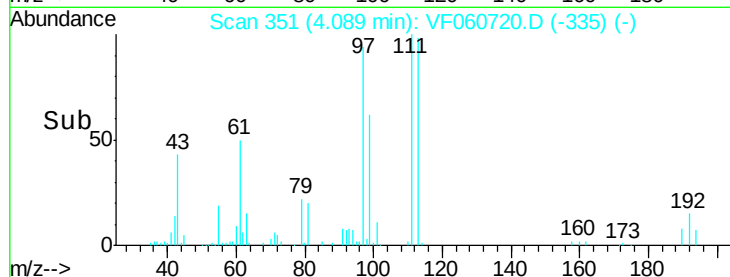
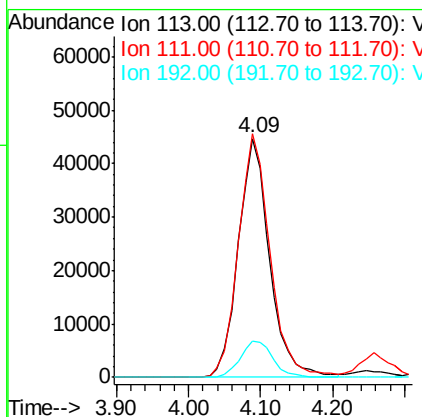
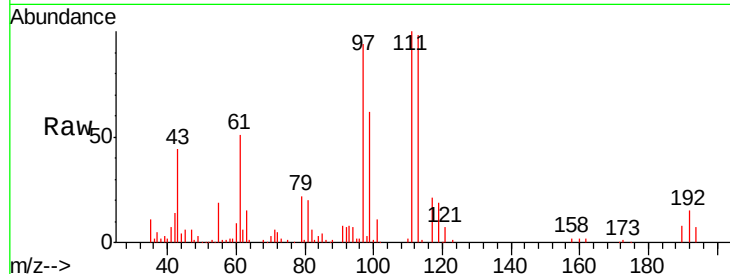
#35
Dibromofluoromethane
Concen: 47.79 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	135603		
111	101.8	87.1	130.7	
192	15.3	13.8	20.6	

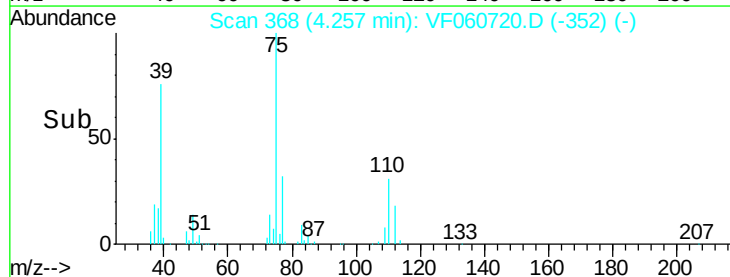
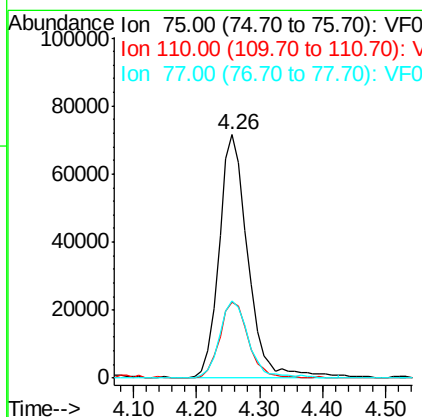
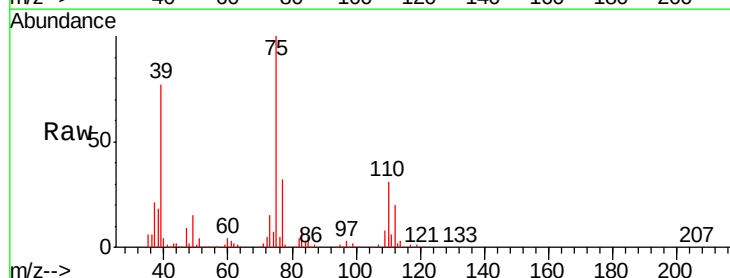
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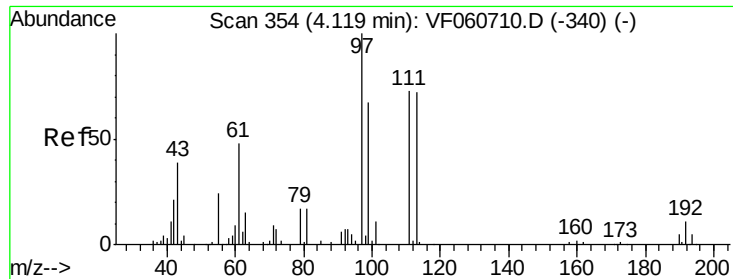
MMDadoda
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#36
1,1-Dichloropropene
Concen: 51.64 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	226041		
110	31.3	15.6	46.8	
77	31.7	25.0	37.6	





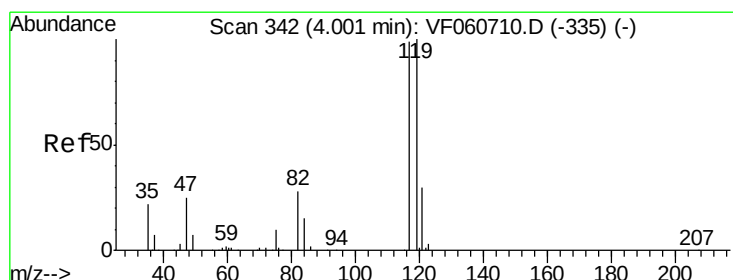
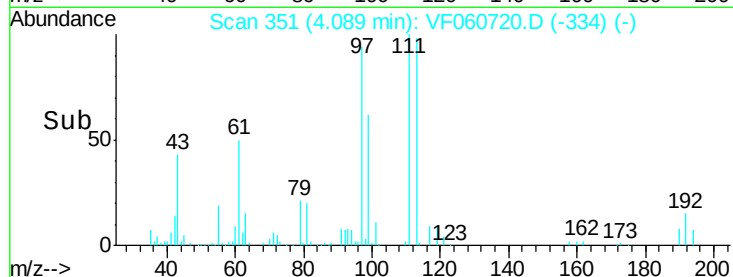
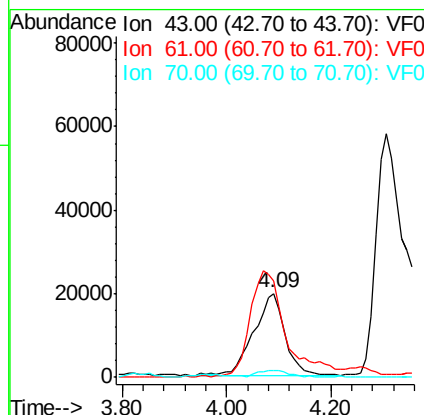
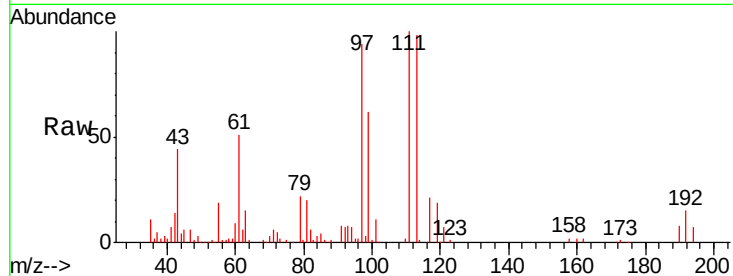
#37
Ethyl Acetate
Concen: 48.87 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	114.8	98.5	147.7
70	7.7	7.4	11.0

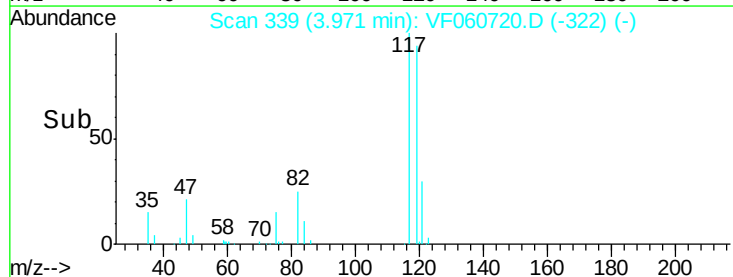
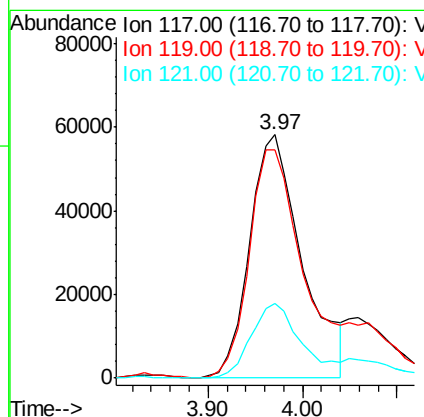
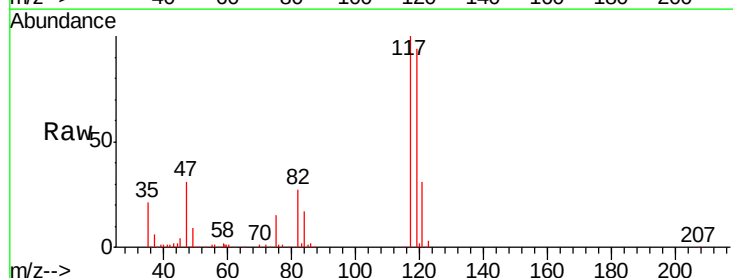
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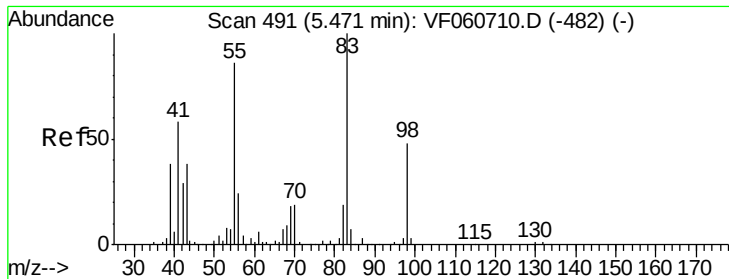
MMDadoda
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#38
Carbon Tetrachloride
Concen: 52.44 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	80.7	121.1
121	30.5	24.3	36.5





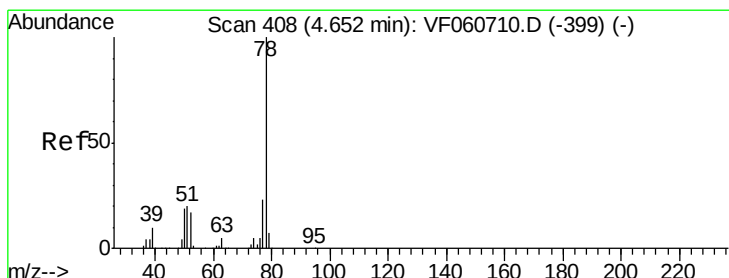
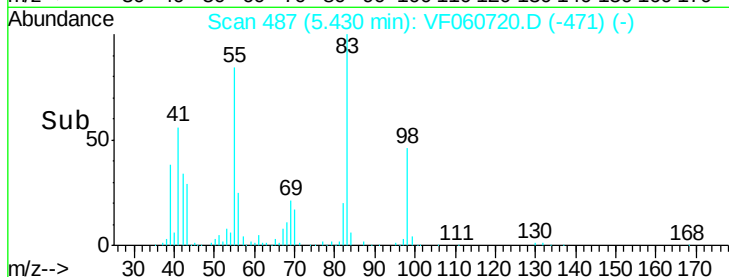
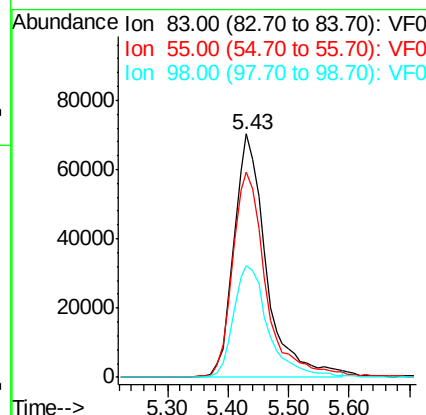
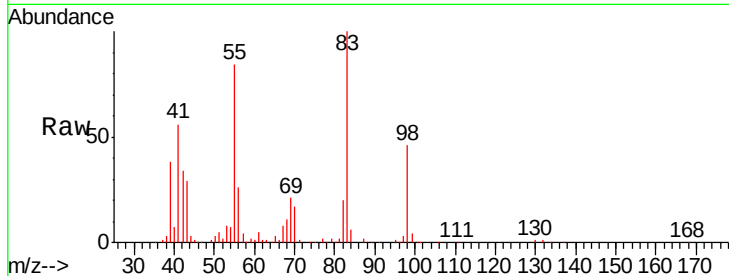
#39
Methylcyclohexane
Concen: 51.50 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
83	100		
55	84.0	69.0	103.4
98	45.8	38.5	57.7

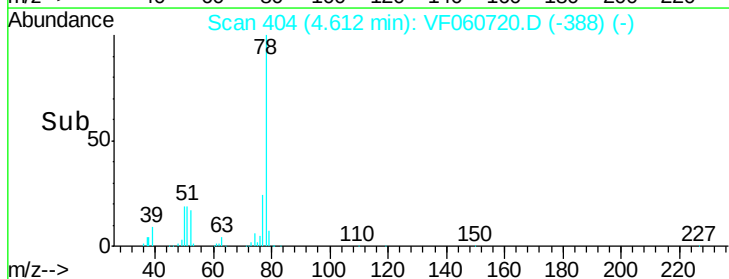
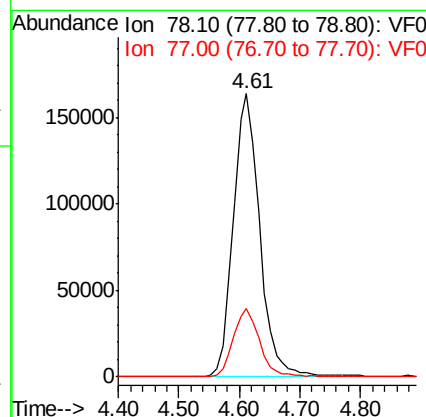
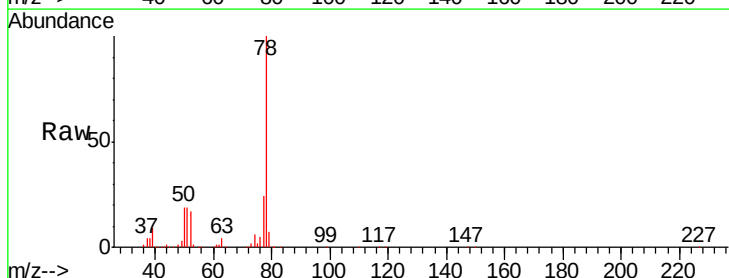
Manual Integrations
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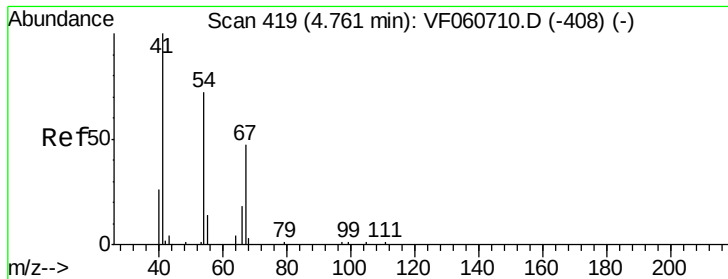
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#40
Benzene
Concen: 50.85 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.6	28.0





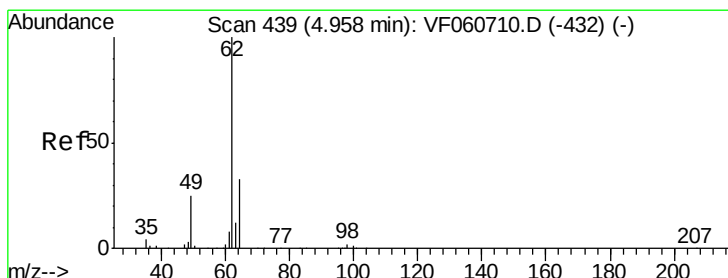
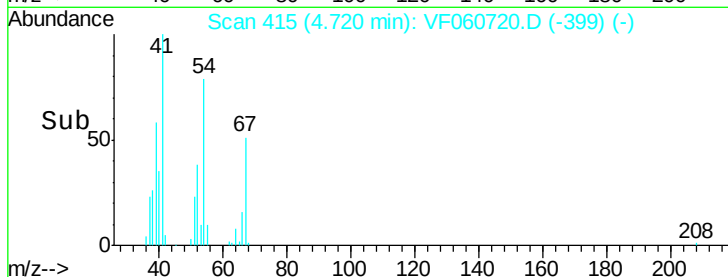
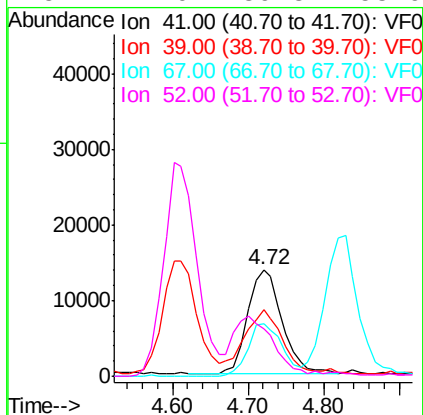
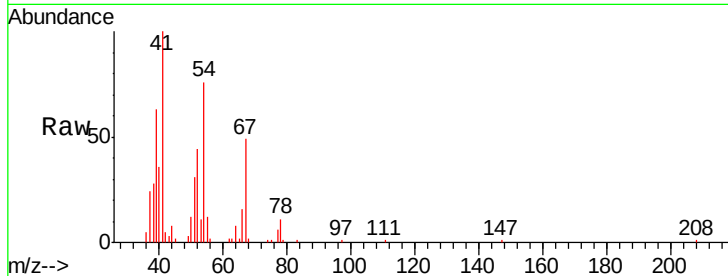
#41
Methacrylonitrile
Concen: 51.47 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	62.6	47.1	70.7
67	67	49.2	37.1	55.7
52	52	44.0	39.3	58.9

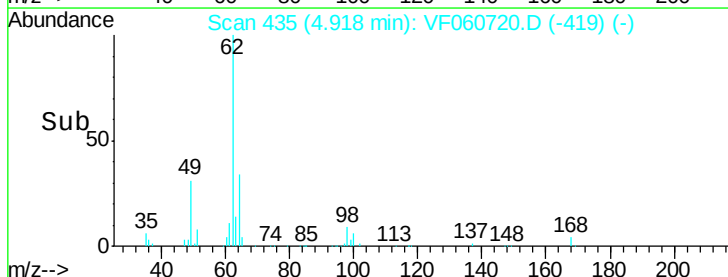
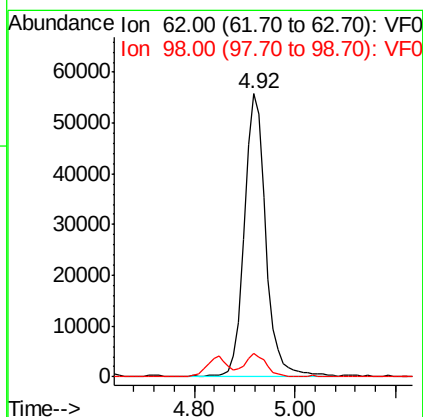
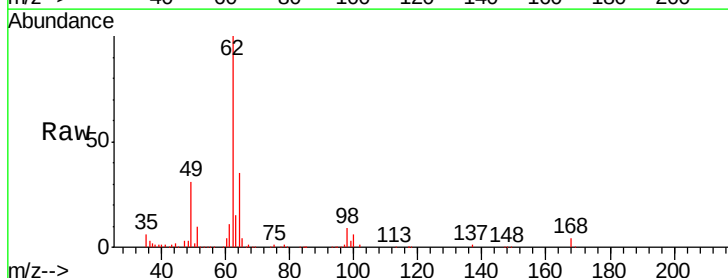
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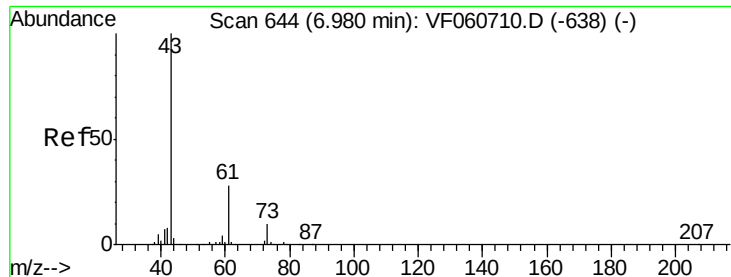
MMDadoda
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#42
1,2-Dichloroethane
Concen: 48.91 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ion	Ratio	Lower	Upper
62	62	100		
98	98	8.5	0.0	16.6





#43

Isopropyl Acetate

Concen: 48.76 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

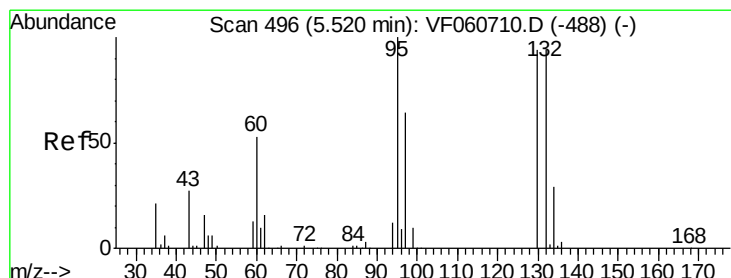
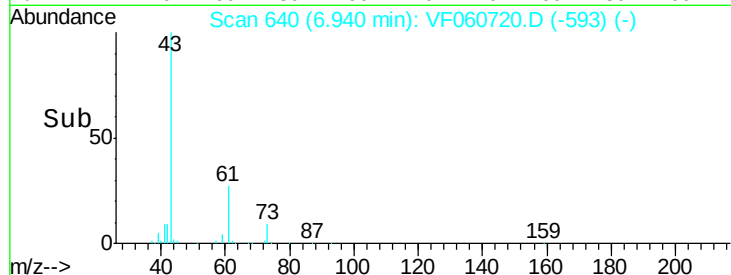
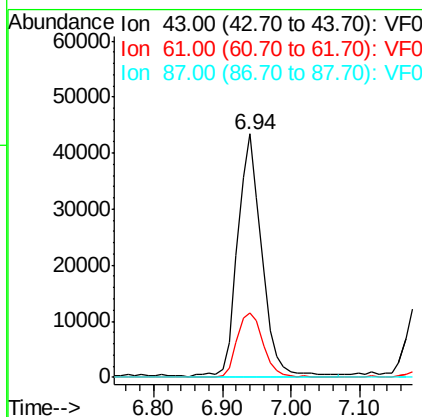
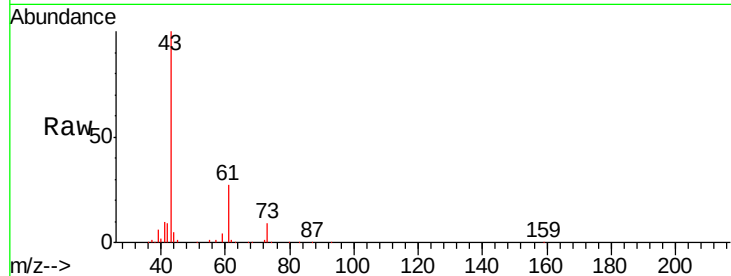
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	105216
Ion Ratio	Lower	Upper	
43	100		
61	26.6	22.2	33.4
87	0.3	0.4	0.6#

Manual Integrations
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11/15/2018 1:30:39 PM



#44

Trichloroethene

Concen: 50.59 ug/l

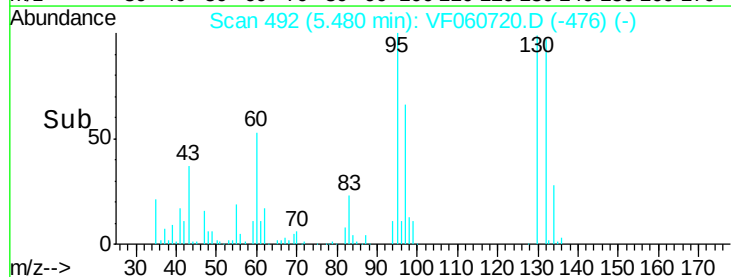
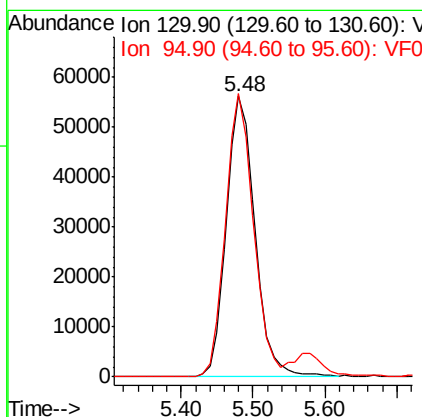
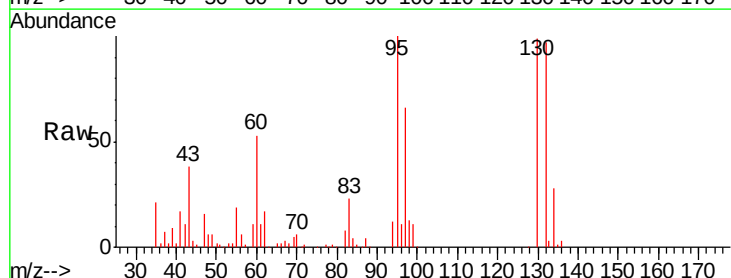
RT: 5.48 min Scan# 492

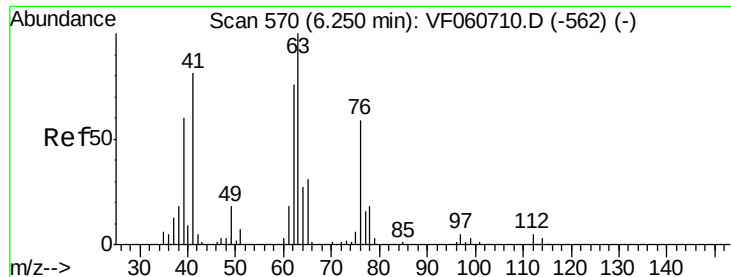
Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	130	Resp:	155759
Ion Ratio	Lower	Upper	
130	100		
95	101.0	0.0	212.6





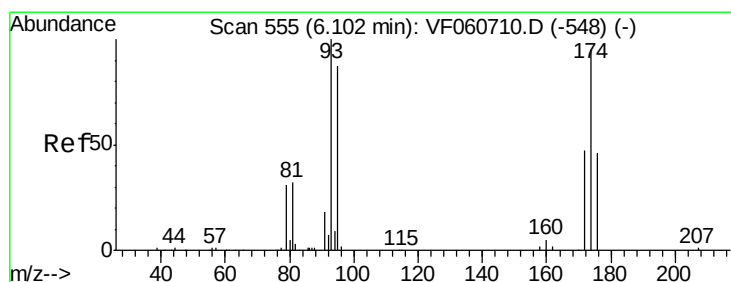
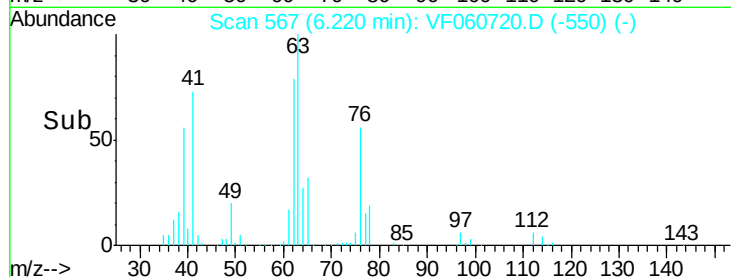
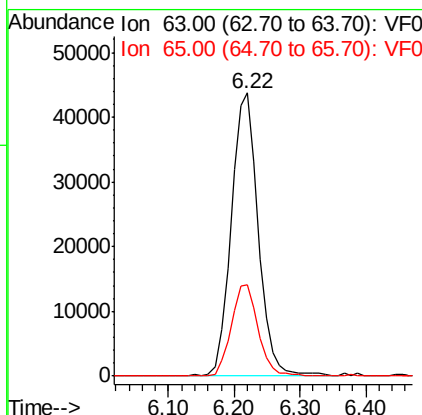
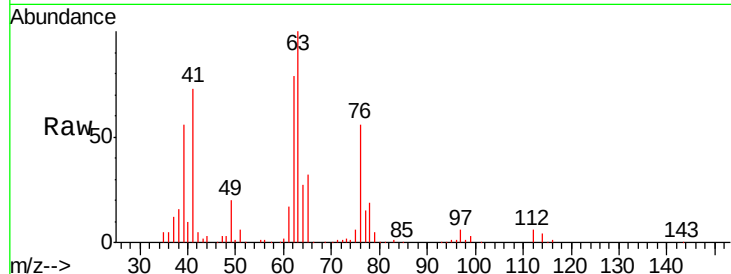
#45
 1,2-Dichloropropane
 Concen: 49.56 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.03 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 63 Resp: 125838
 Ion Ratio Lower Upper
 63 100
 65 32.3 24.6 36.8

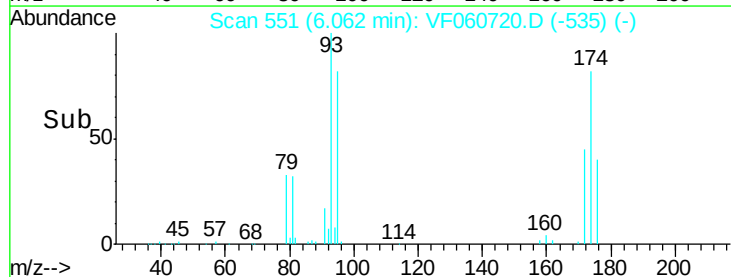
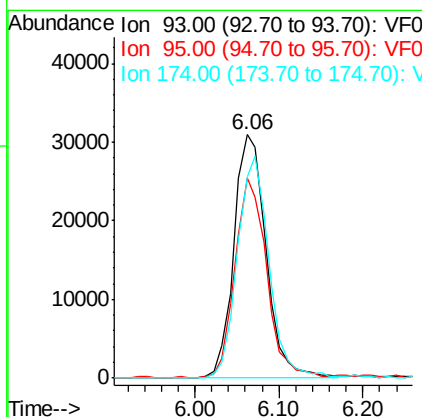
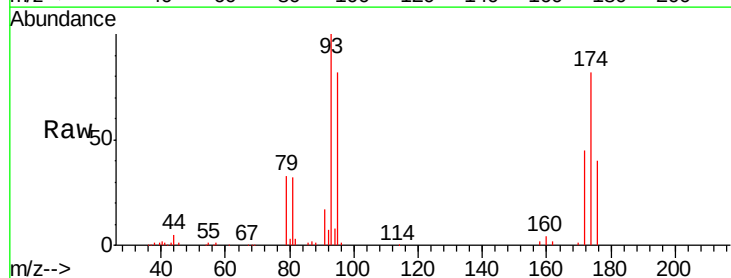
Manual Integrations
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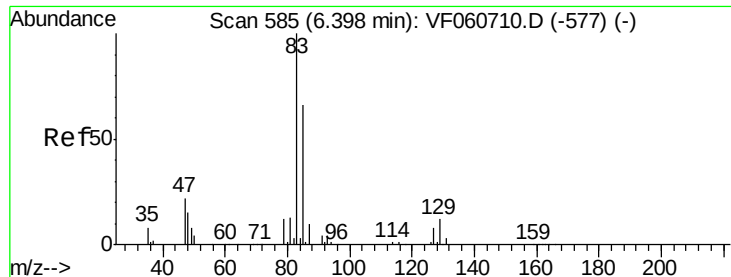
MMDadoda
 11/15/2018 1:30:39 PM



#46
 Dibromomethane
 Concen: 49.41 ug/l
 RT: 6.06 min Scan# 551
 Delta R.T. -0.04 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion: 93 Resp: 82822
 Ion Ratio Lower Upper
 93 100
 95 82.1 69.5 104.3
 174 82.5 76.2 114.2





#47

Bromodichloromethane

Concen: 48.69 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

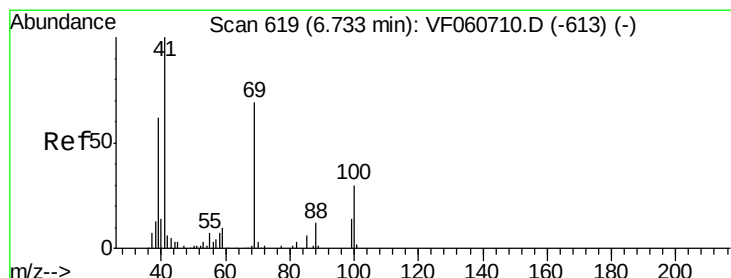
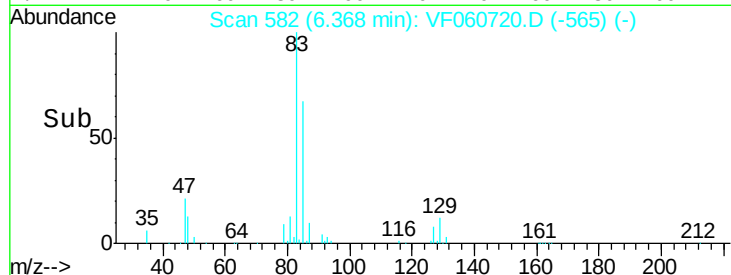
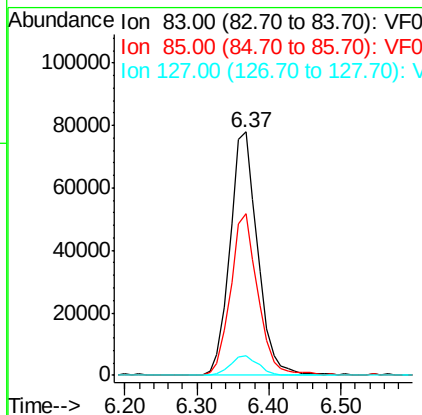
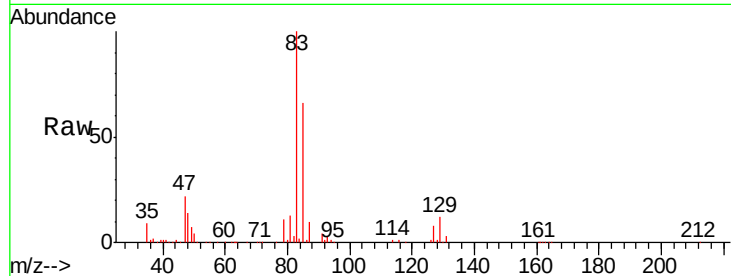
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	208399
Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.4	78.6
127	8.0	6.8	10.2

Manual Integrations
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11/15/2018 1:30:39 PM



#48

Methyl methacrylate

Concen: 47.56 ug/l

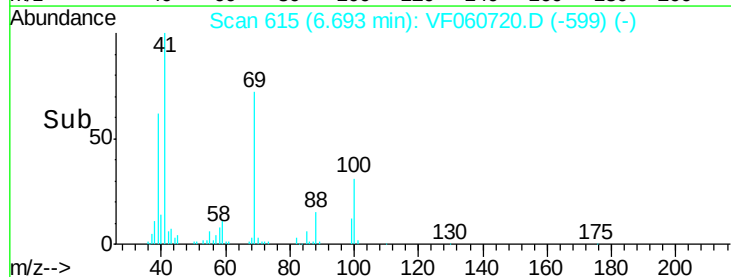
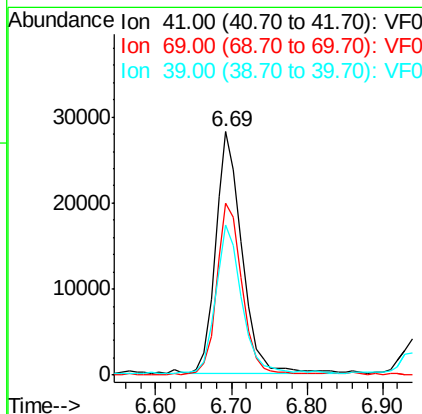
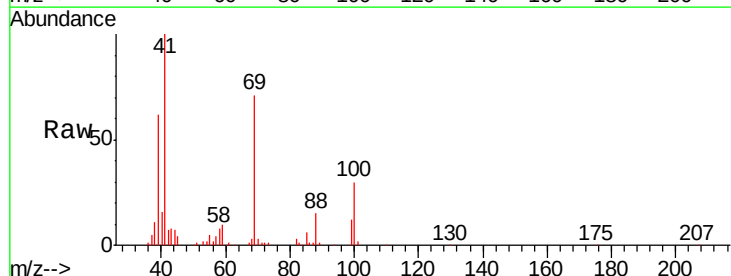
RT: 6.69 min Scan# 615

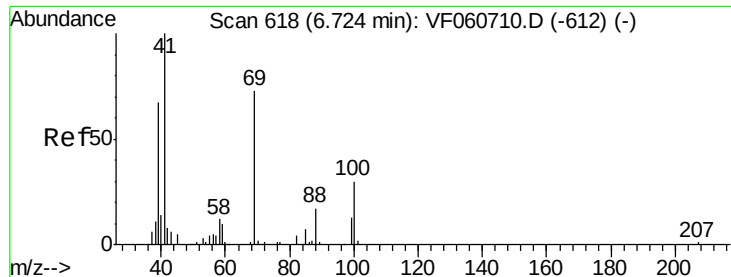
Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	41	Resp:	67918
Ion	Ratio	Lower	Upper
41	100		
69	70.7	54.9	82.3
39	61.6	49.6	74.4





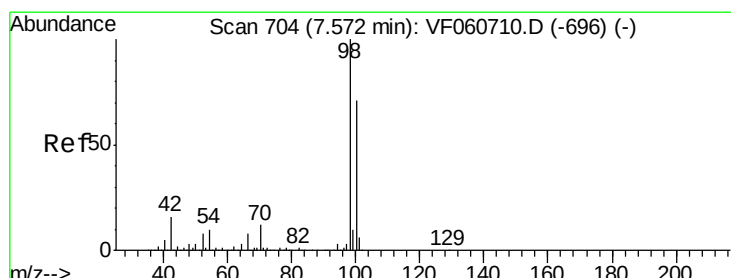
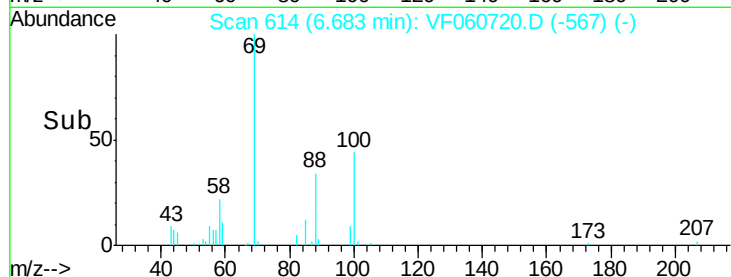
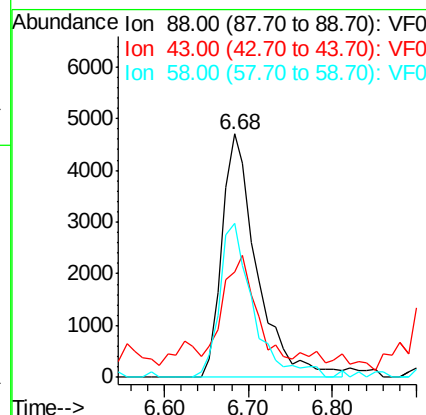
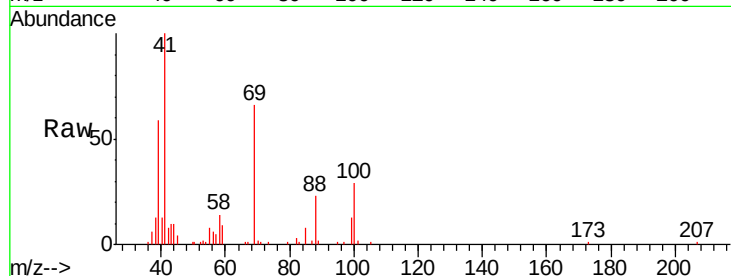
#49
1,4-Dioxane
Concen: 1018.26 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	43.3	44.6	66.8#
58	63.1	54.5	81.7

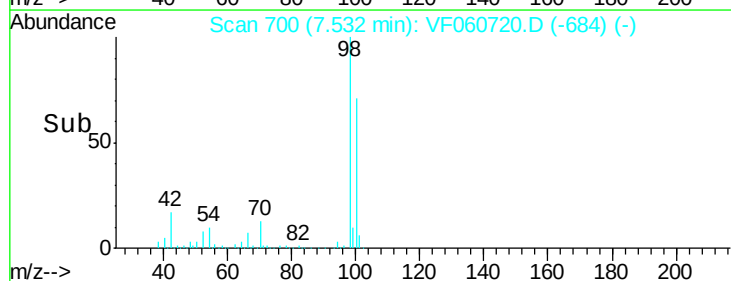
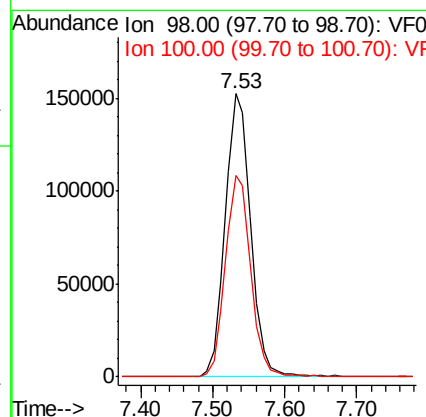
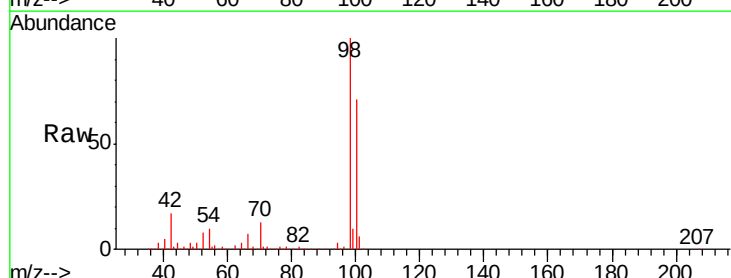
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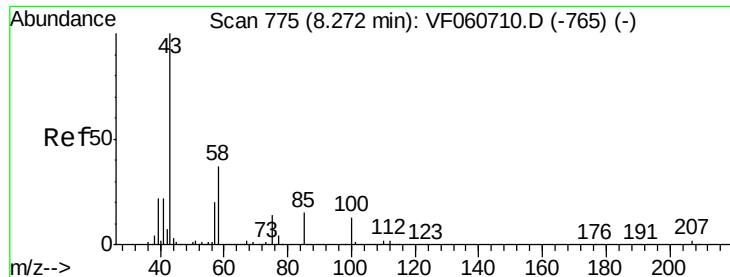
MMDadoda
11/15/2018 1:30:39 PM



#50
Toluene-d8
Concen: 51.36 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.0	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 242.83 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 378966

Ion Ratio Lower Upper

43 100

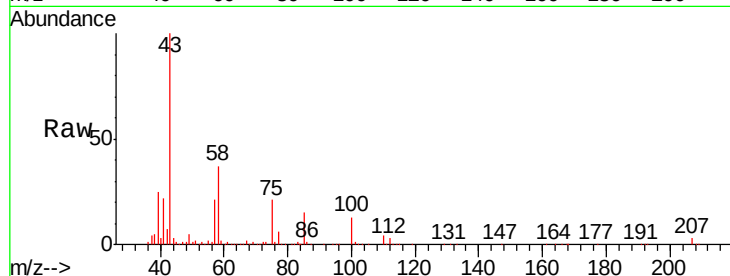
58 37.3 29.2 43.8

Manual Integrations

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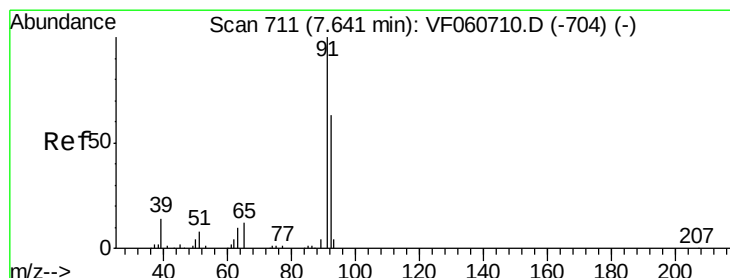
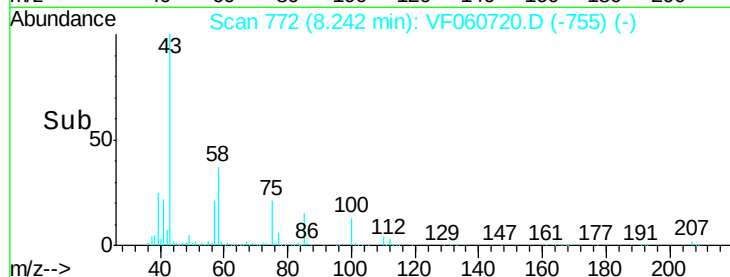
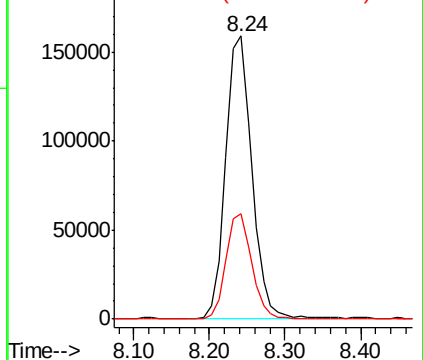
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 50.58 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.04 min

Lab File: VF060720.D

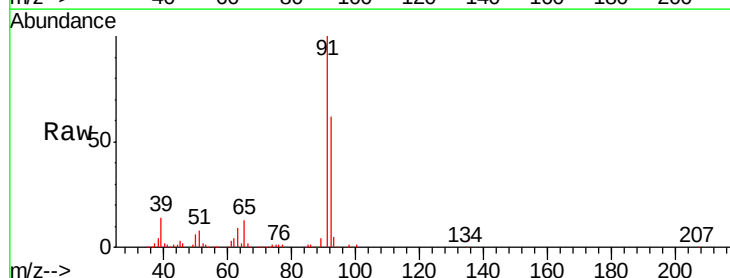
Acq: 14 Nov 2018 11:48

Tgt Ion: 92 Resp: 330747

Ion Ratio Lower Upper

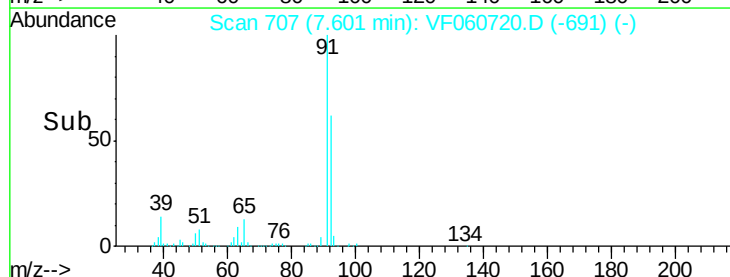
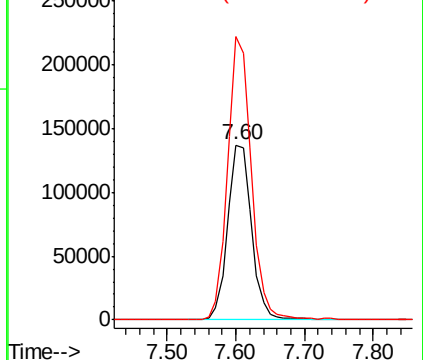
92 100

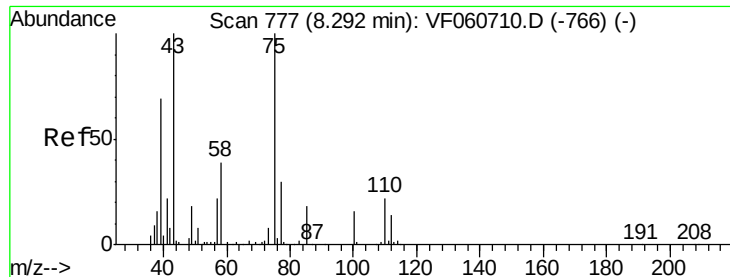
91 161.8 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 46.70 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 160107

Ion Ratio Lower Upper

75 100

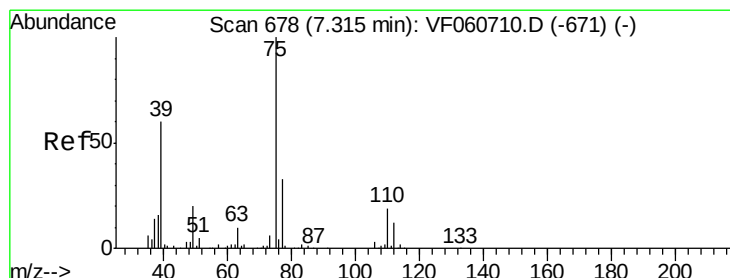
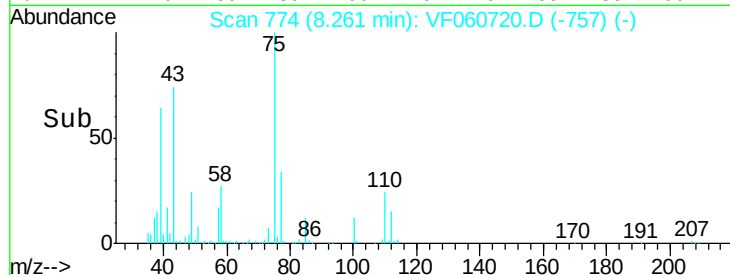
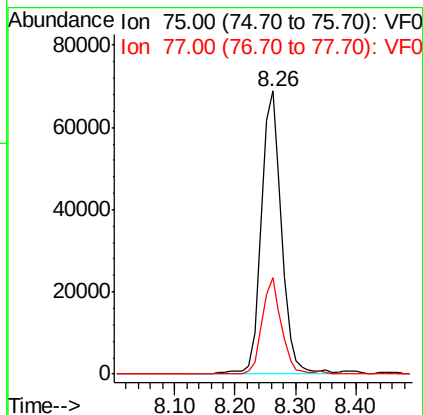
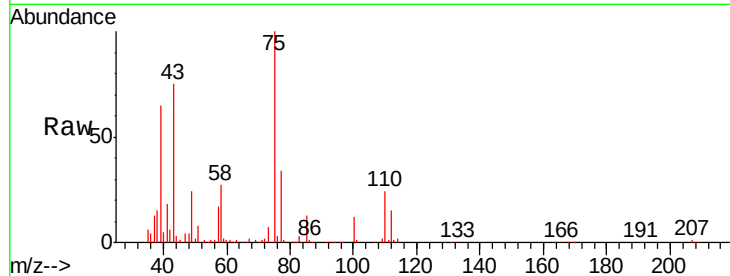
77 34.0 24.6 36.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 47.93 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

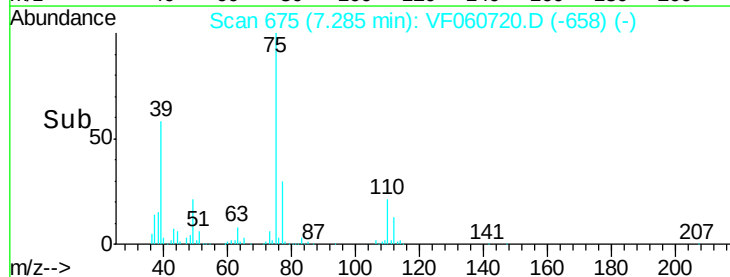
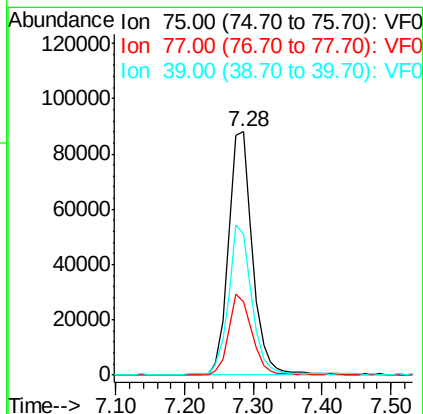
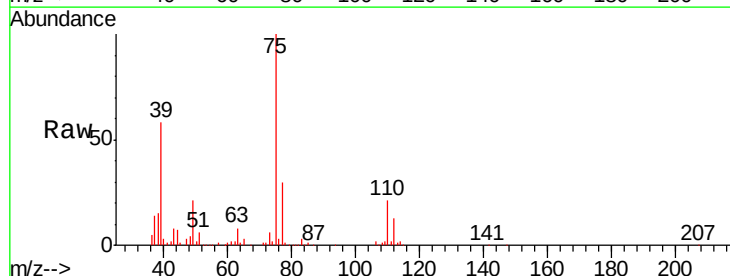
Tgt Ion: 75 Resp: 213441

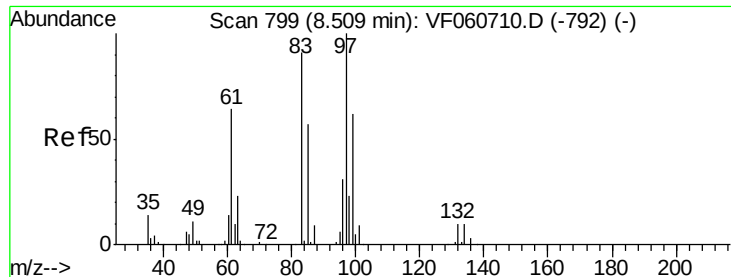
Ion Ratio Lower Upper

75 100

77 30.4 26.5 39.7

39 58.3 48.5 72.7





#55

1,1,2-Trichloroethane

Concen: 48.47 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

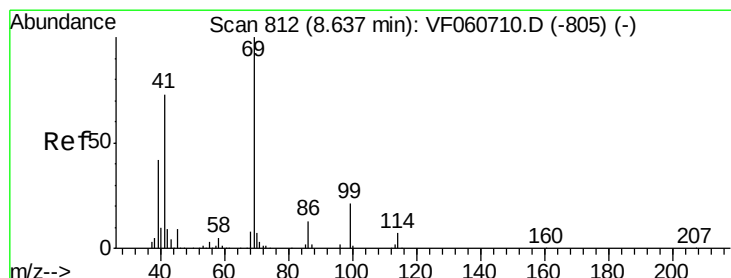
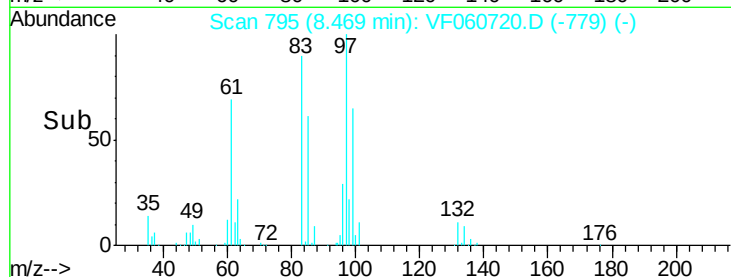
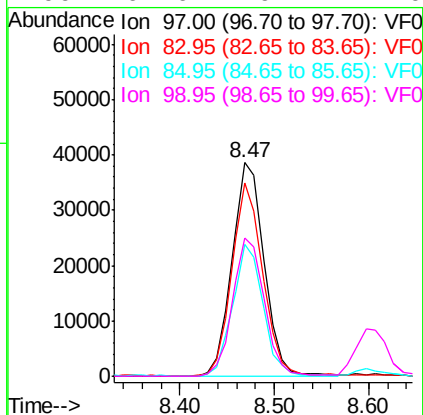
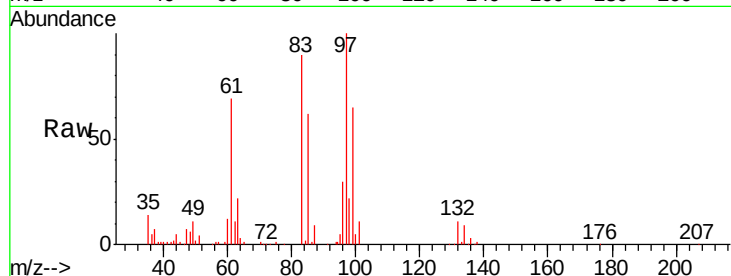
ClientSampleId :

VSTDCCC050

Tgt Ion:	97	Resp:	90560
Ion	Ratio	Lower	Upper
97	100		
83	90.3	72.8	109.2
85	61.6	45.8	68.6
99	64.6	49.4	74.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 49.21 ug/l

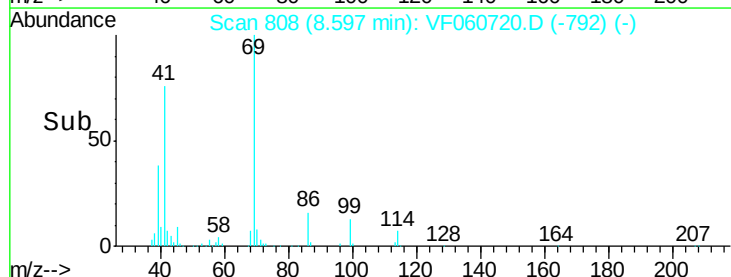
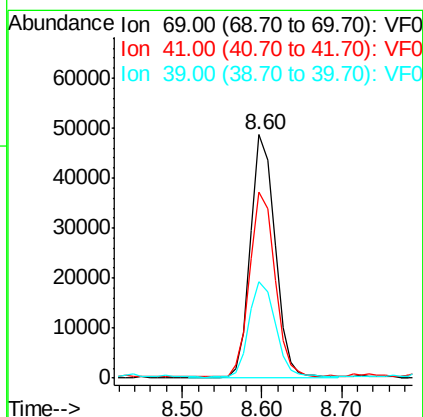
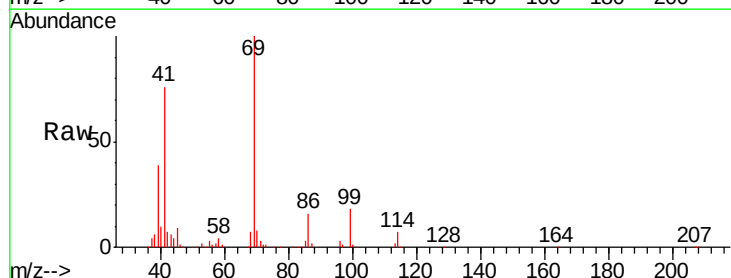
RT: 8.60 min Scan# 808

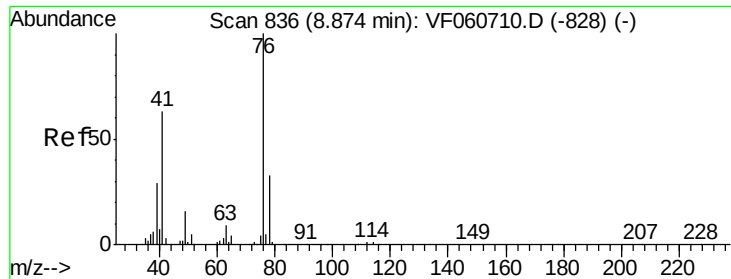
Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	69	Resp:	104414
Ion	Ratio	Lower	Upper
69	100		
41	76.2	59.0	88.6
39	39.3	34.0	51.0





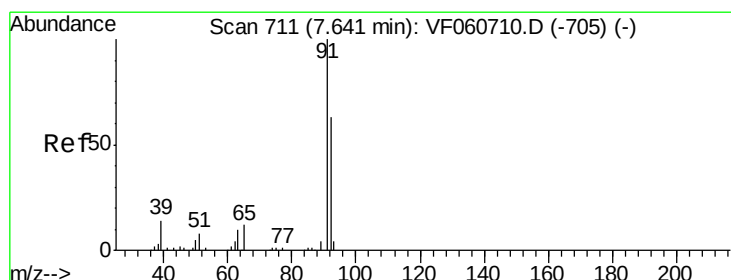
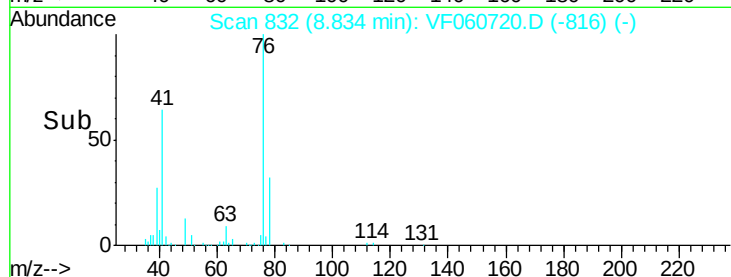
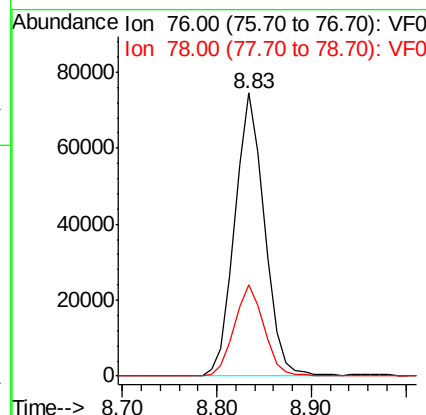
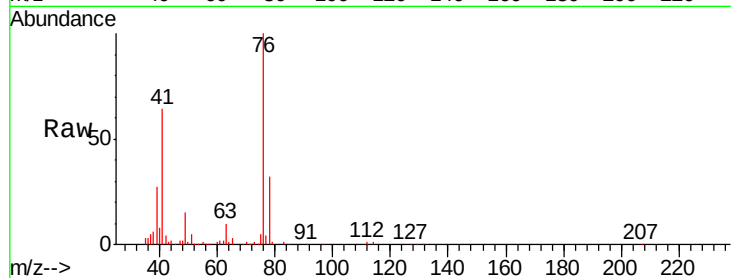
#57
 1,3-Dichloropropane
 Concen: 50.20 ug/l
 RT: 8.83 min Scan# 832
 Delta R.T. -0.04 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 76 Resp: 162540
 Ion Ratio Lower Upper
 76 100
 78 32.3 26.6 39.8

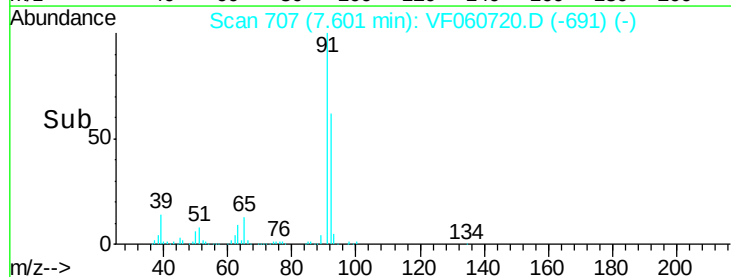
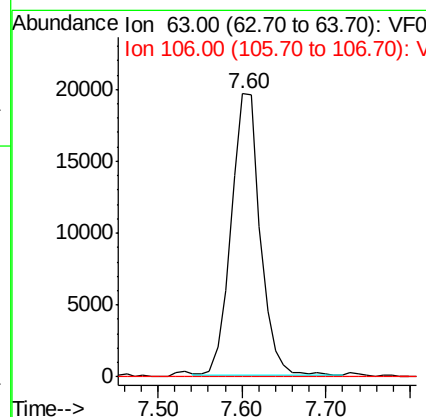
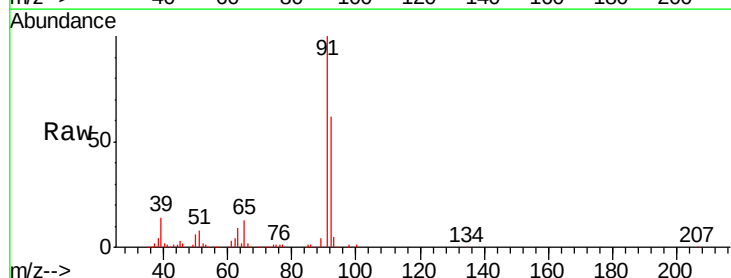
Manual Integrations
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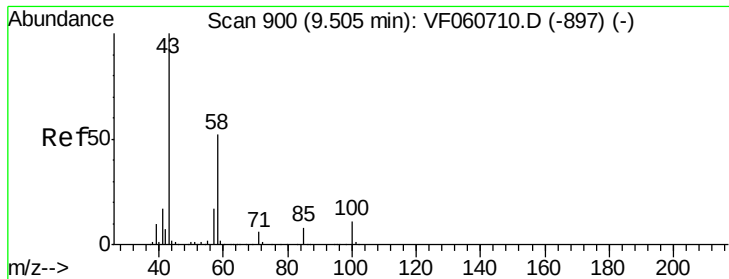
MMDadoda
 11/15/2018 1:30:39 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 241.61 ug/l
 RT: 7.60 min Scan# 707
 Delta R.T. -0.04 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion: 63 Resp: 46832
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 273.99 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 300503

Ion Ratio Lower Upper

43 100

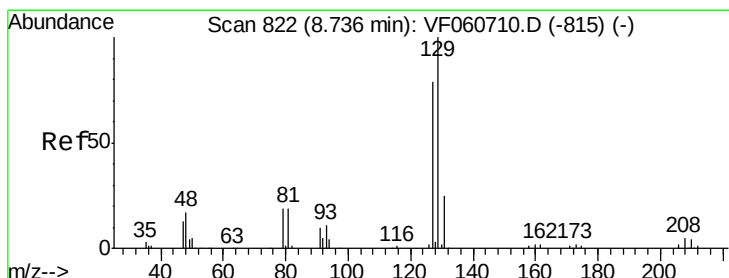
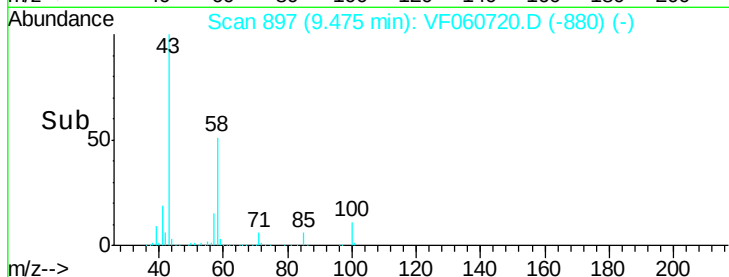
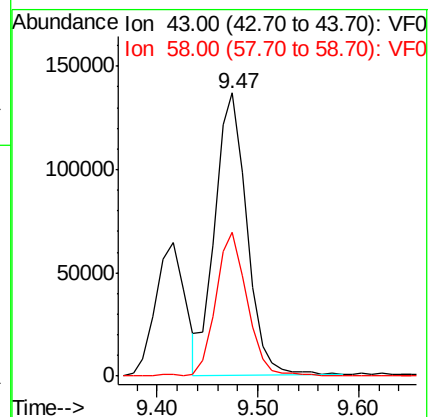
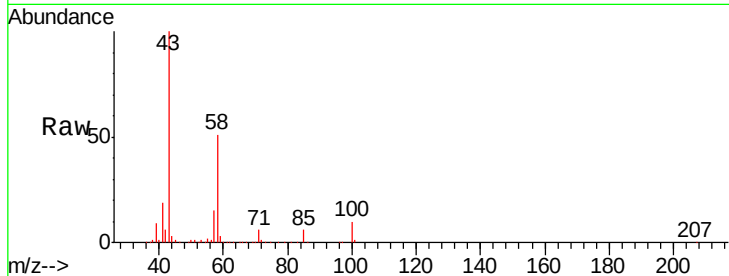
58 51.0 24.9 74.7

Manual Integrations

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11/15/2018 1:30:39 PM



#60

Dibromochloromethane

Concen: 49.65 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.04 min

Lab File: VF060720.D

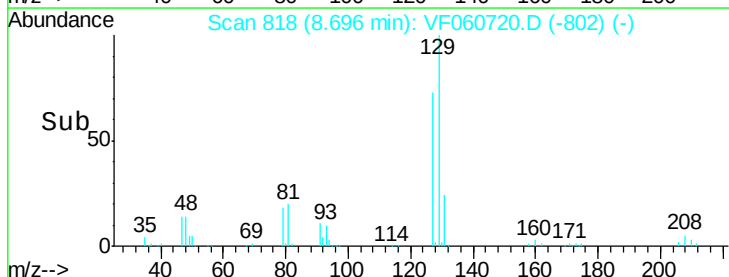
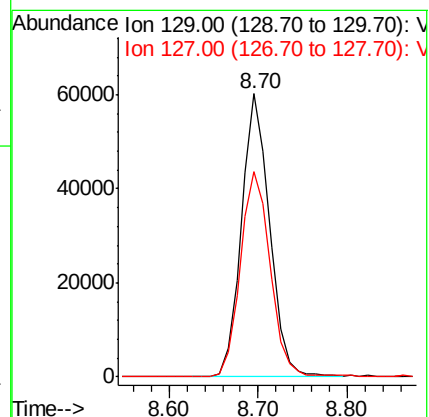
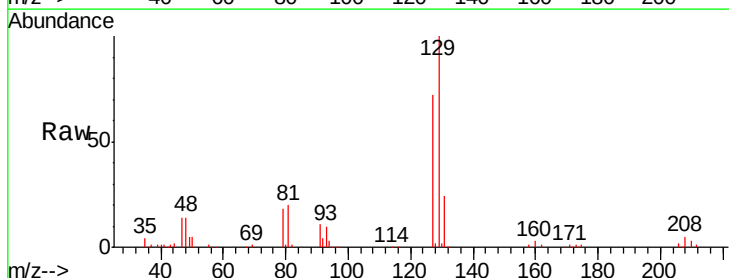
Acq: 14 Nov 2018 11:48

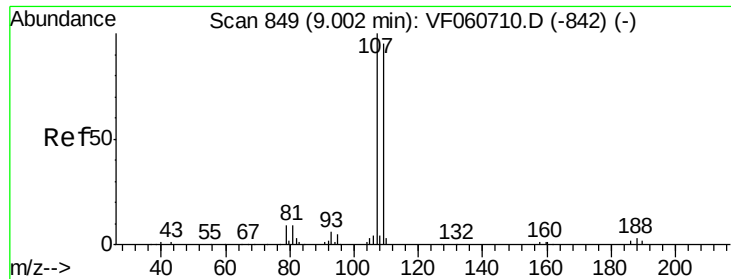
Tgt Ion: 129 Resp: 132210

Ion Ratio Lower Upper

129 100

127 72.4 39.7 119.1





#61

1,2-Dibromoethane

Concen: 50.81 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 107 Resp: 99835

Ion Ratio Lower Upper

107 100

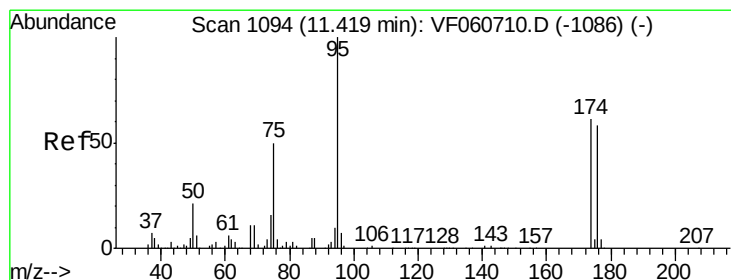
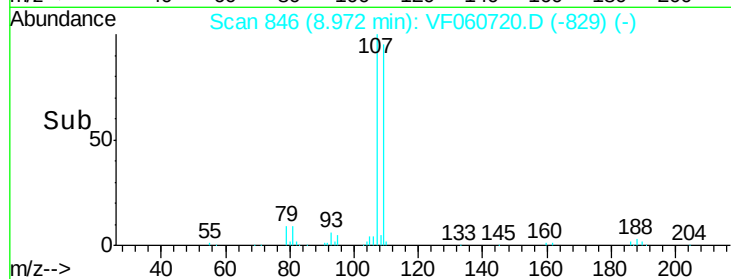
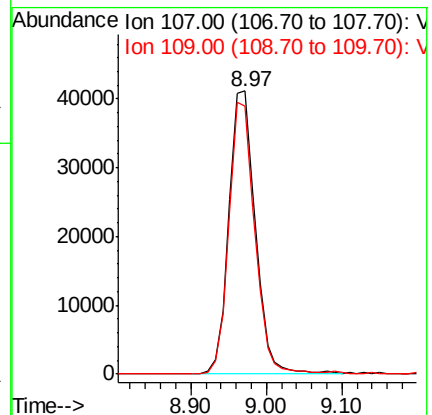
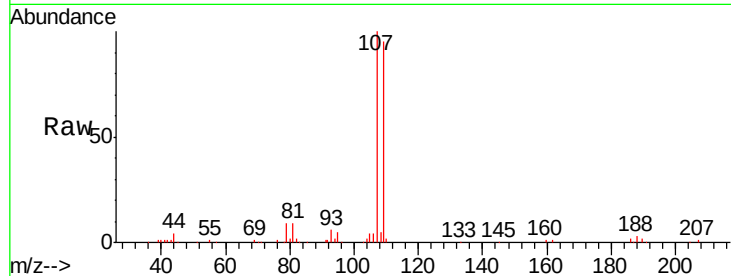
109 94.7 75.9 113.9

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 50.83 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

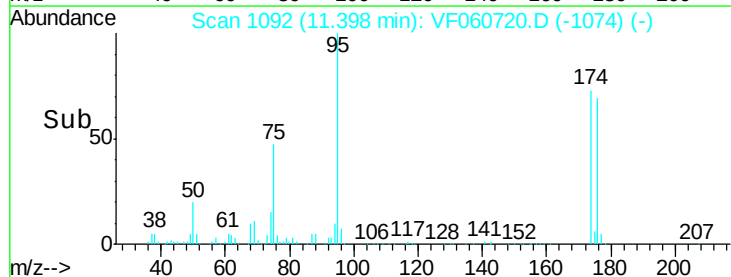
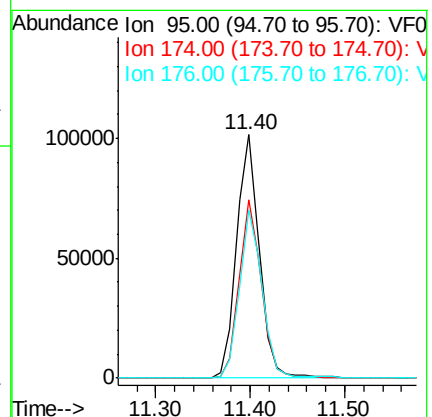
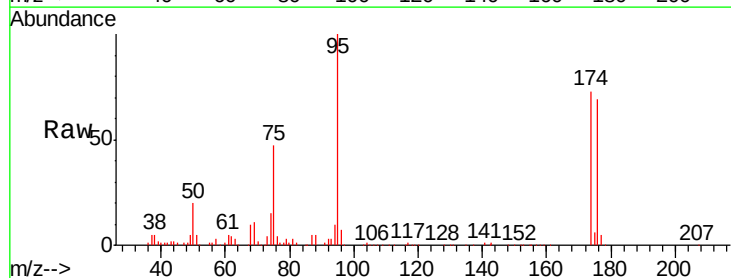
Tgt Ion: 95 Resp: 170432

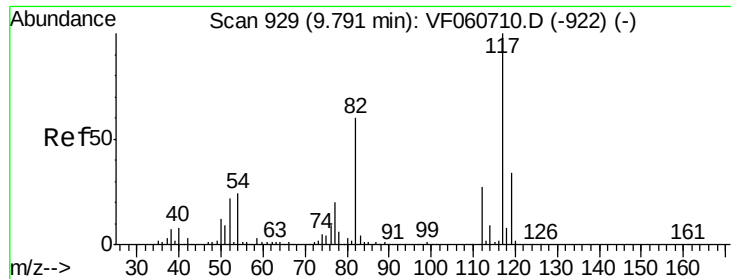
Ion Ratio Lower Upper

95 100

174 73.3 0.0 121.6

176 68.9 0.0 115.2





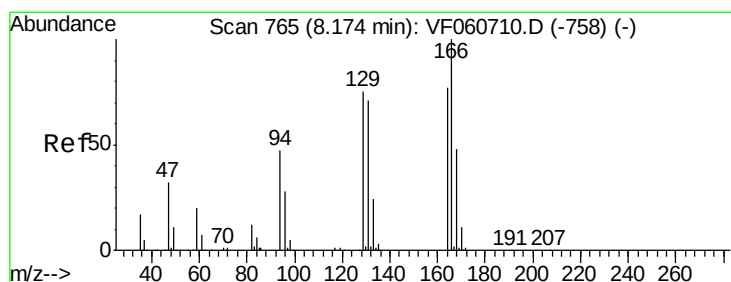
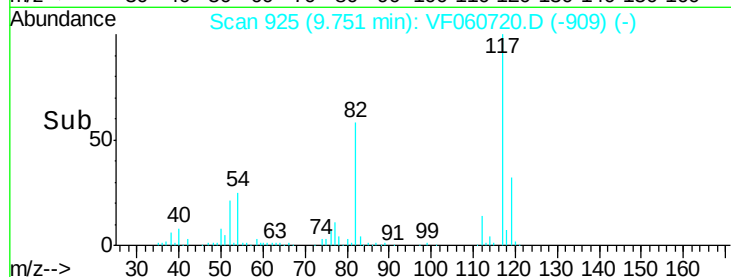
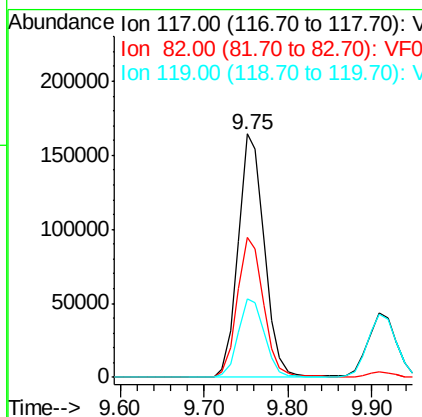
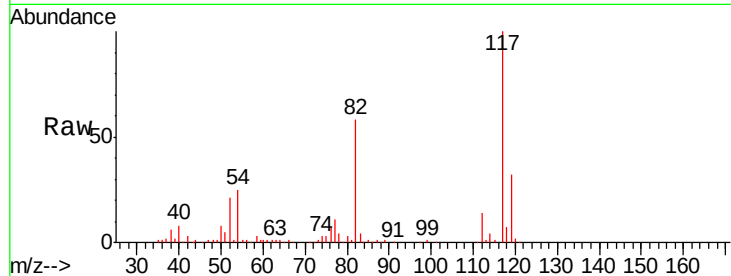
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	357449		
82	57.7	47.9	71.9	
119	32.3	26.8	40.2	

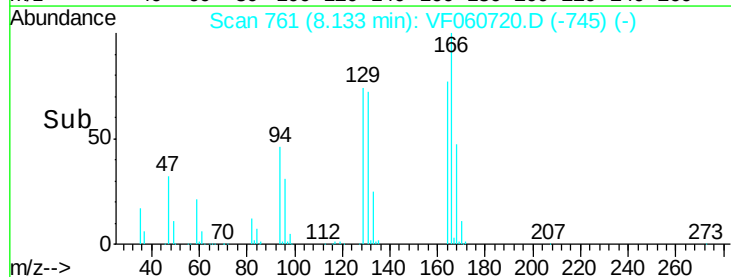
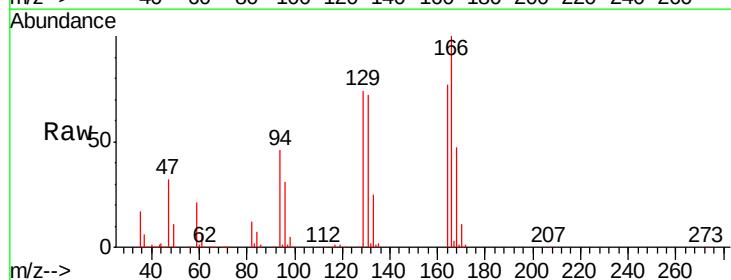
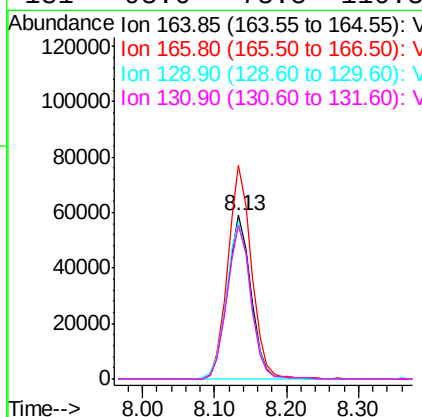
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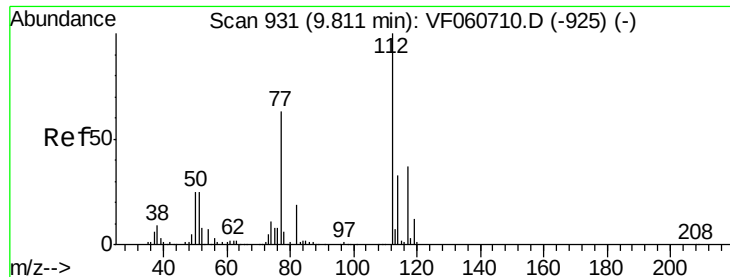
MMDadoda
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#64
Tetrachloroethene
Concen: 47.79 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	135262		
166	130.5	103.5	155.3	
129	96.1	77.4	116.2	
131	93.6	73.5	110.3	





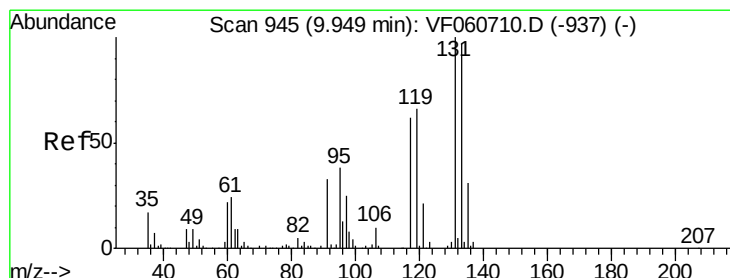
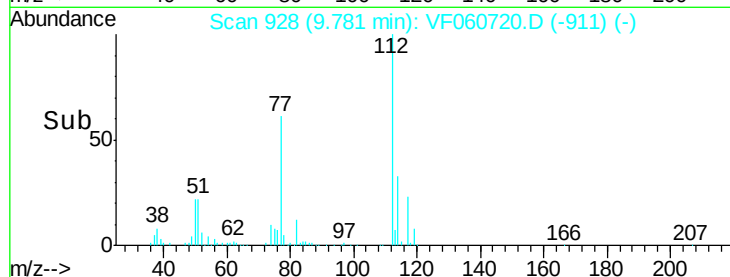
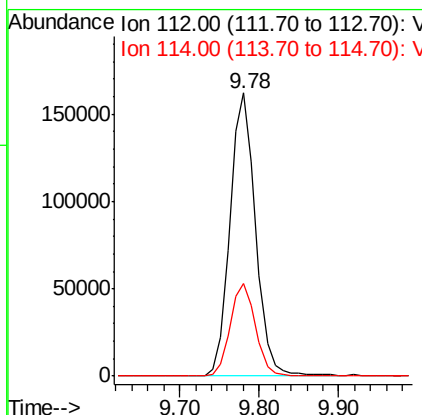
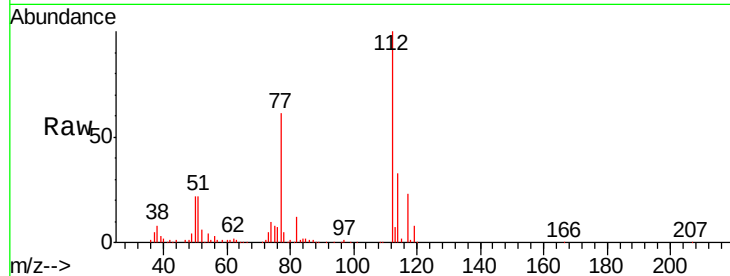
#65
Chlorobenzene
Concen: 50.54 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 364574
Ion Ratio Lower Upper
112 100
114 32.8 26.1 39.1

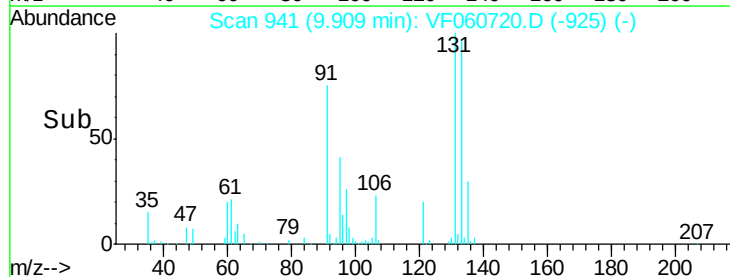
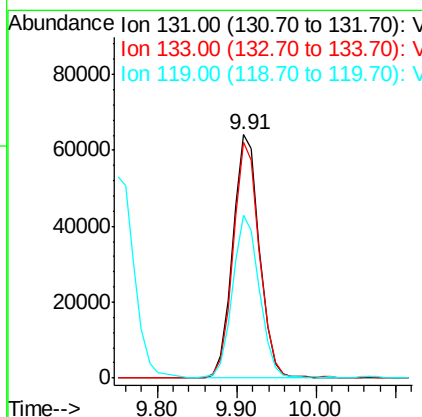
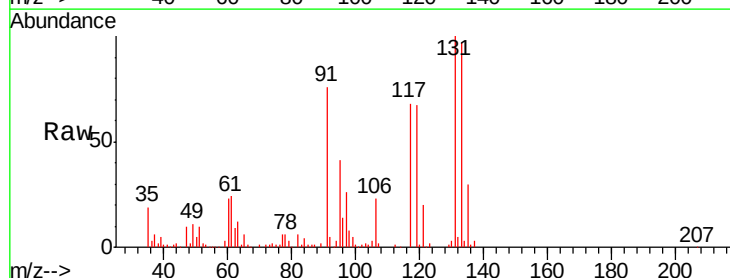
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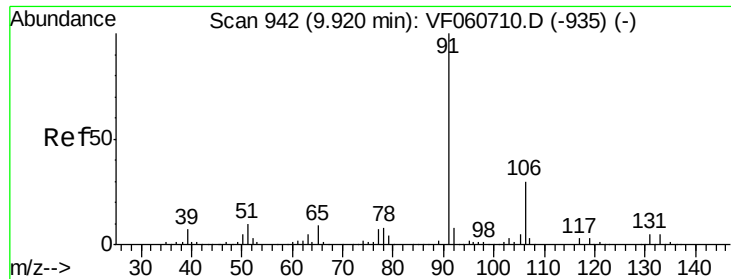
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.59 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.04 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion:131 Resp: 149723
Ion Ratio Lower Upper
131 100
133 97.1 48.3 144.8
119 67.1 33.2 99.6





#67

Ethyl Benzene

Concen: 46.08 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.04 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 626564

Ion Ratio Lower Upper

91 100

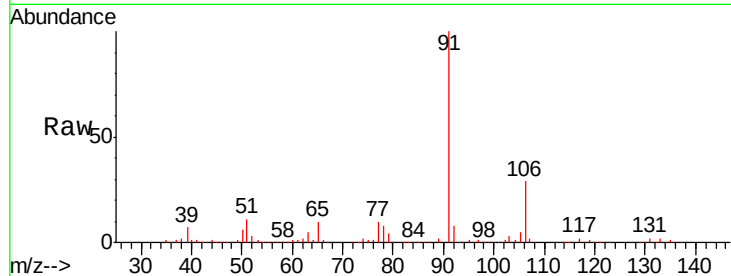
106 29.4 23.9 35.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

400000

300000

200000

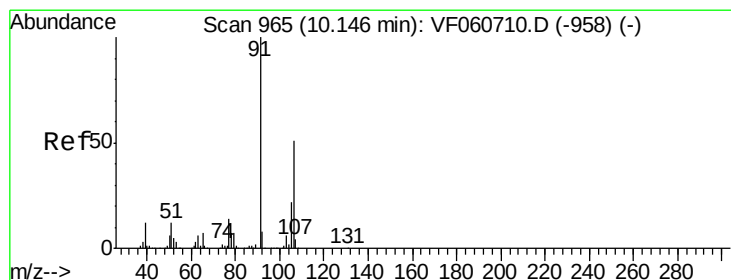
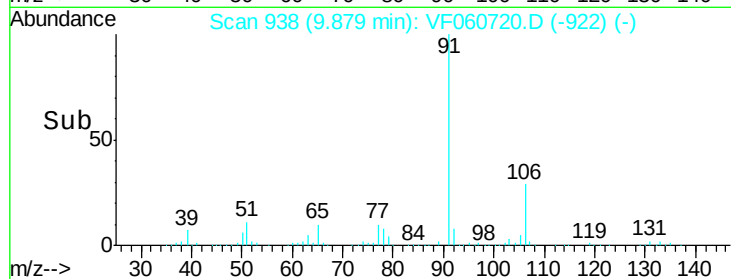
100000

0

9.88

10.00

Time-->



#68

m/p-Xylenes

Concen: 92.30 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF060720.D

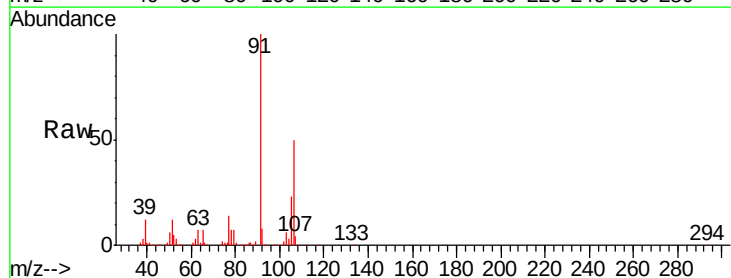
Acq: 14 Nov 2018 11:48

Tgt Ion: 106 Resp: 448453

Ion Ratio Lower Upper

106 100

91 201.5 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

400000

300000

200000

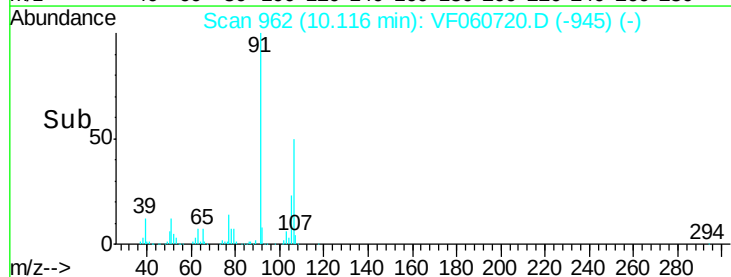
100000

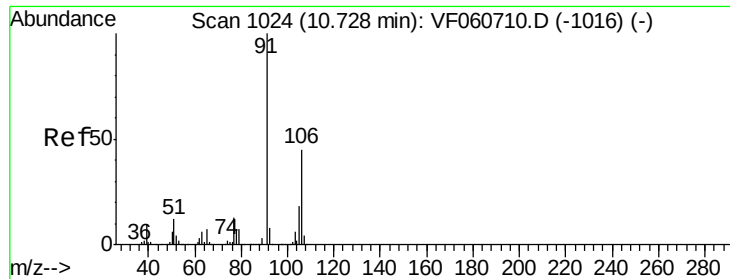
0

10.12

10.20

Time-->





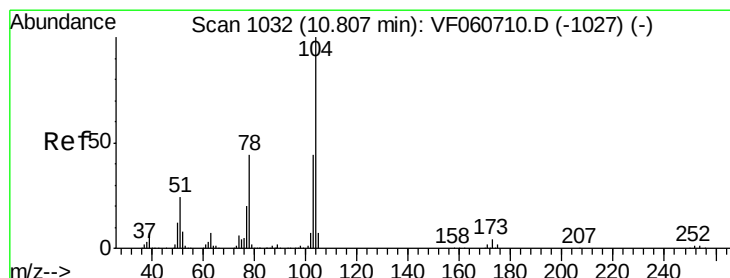
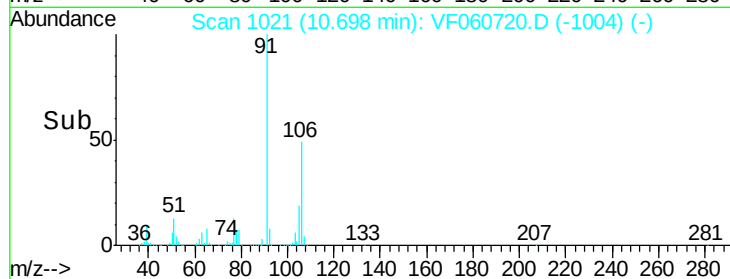
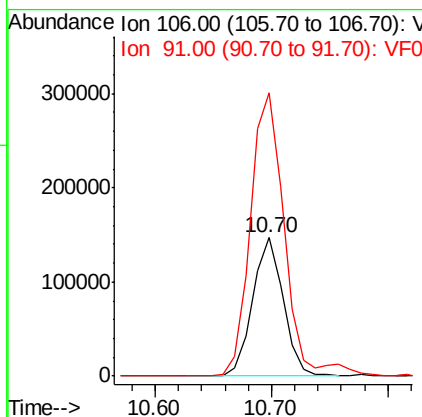
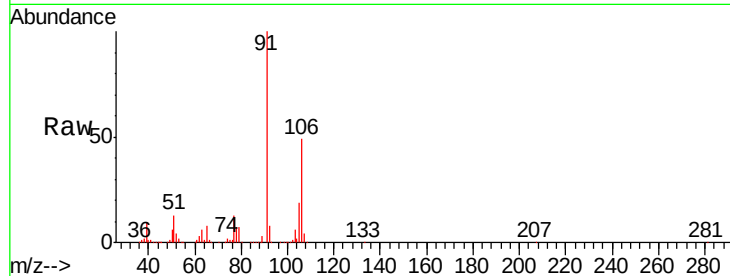
#69
o-Xylene
Concen: 49.28 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 269187
Ion Ratio Lower Upper
106 100
91 204.2 110.3 330.9

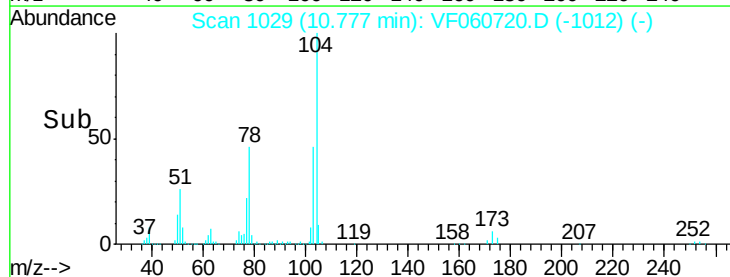
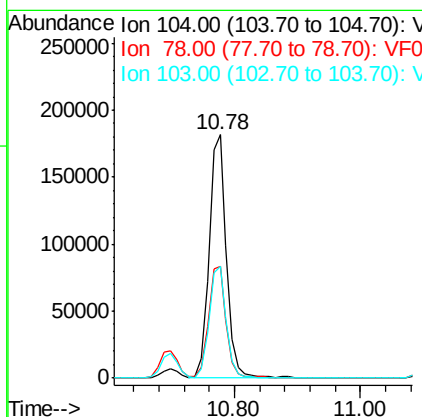
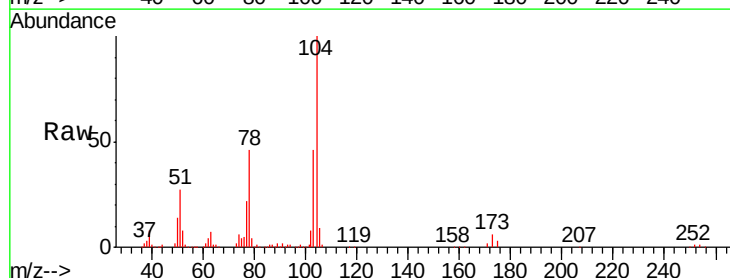
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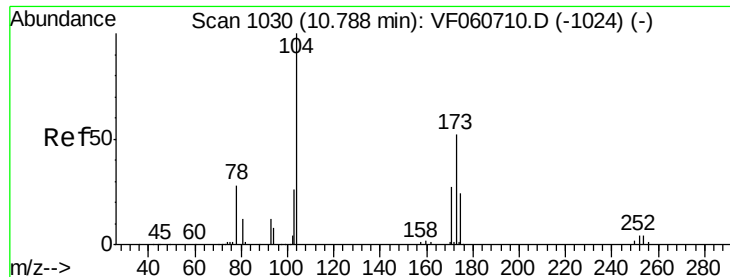
MMDadoda
11/15/2018 1:30:39 PM



#70
Styrene
Concen: 46.94 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.03 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion:104 Resp: 348009
Ion Ratio Lower Upper
104 100
78 46.0 35.4 53.2
103 46.0 35.8 53.6





#71

Bromoform

Concen: 47.86 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 67709

Ion Ratio Lower Upper

173 100

175 50.4 23.4 70.0

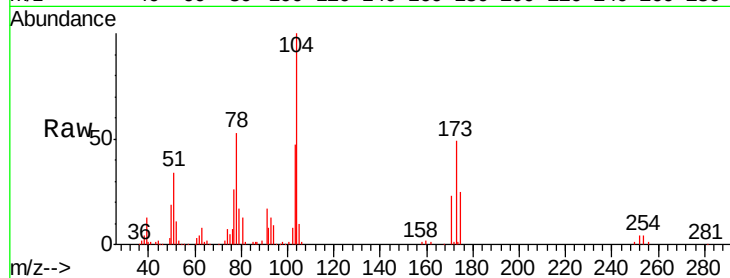
254 8.3 5.8 8.8

Manual Integrations

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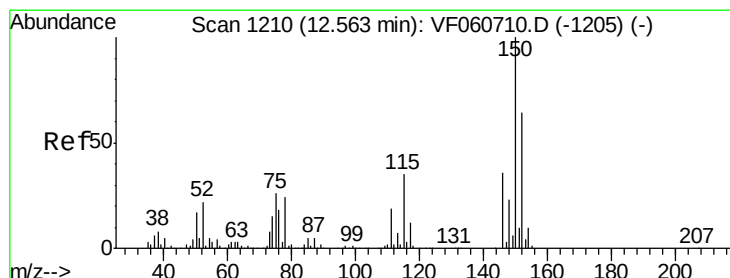
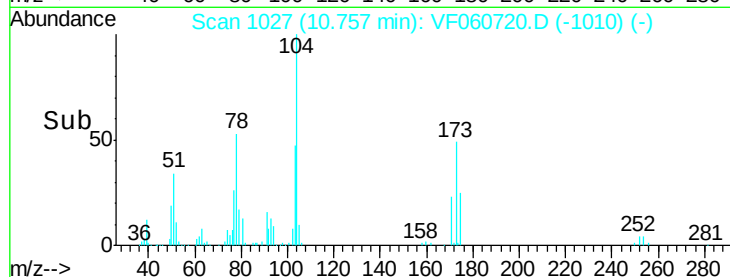
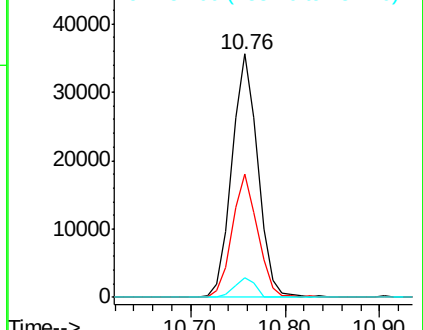
11/15/2018 1:30:39 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

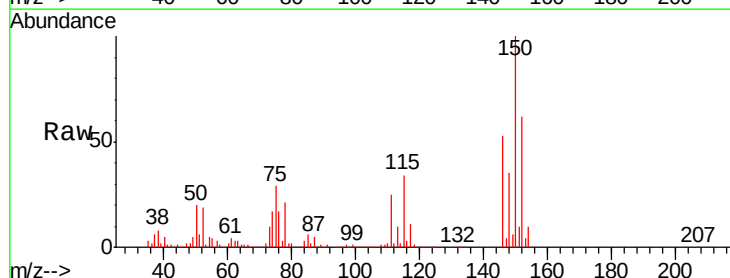
Tgt Ion:152 Resp: 184072

Ion Ratio Lower Upper

152 100

115 55.2 27.9 83.7

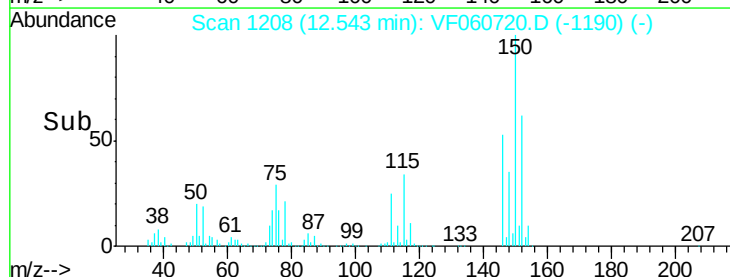
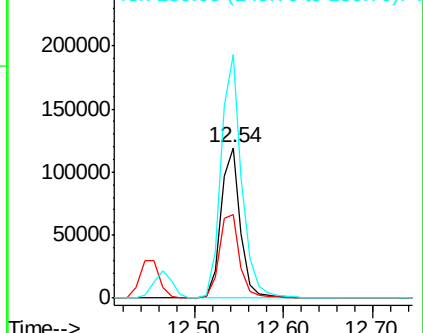
150 161.4 0.0 316.4

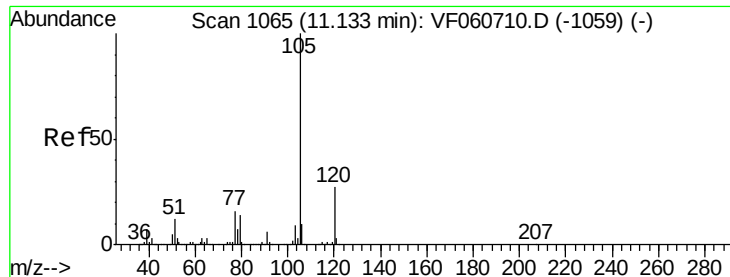


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 53.52 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 792960

Ion Ratio Lower Upper

105 100

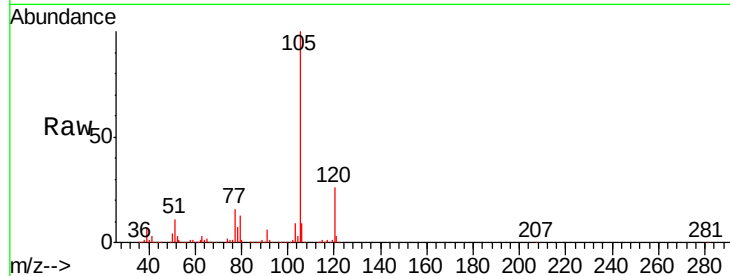
120 25.9 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

400000

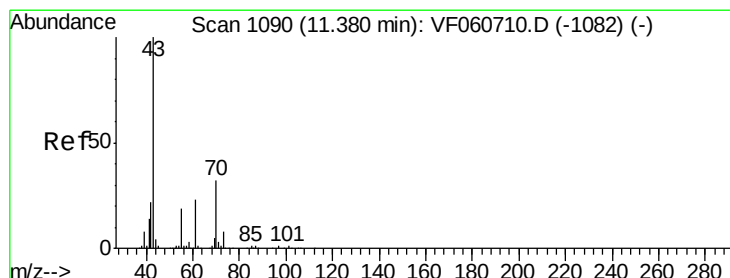
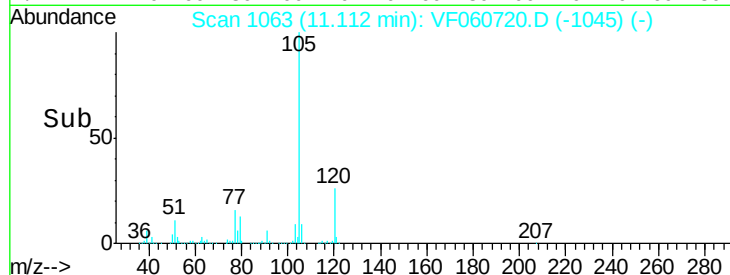
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 54.22 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion: 43 Resp: 182883

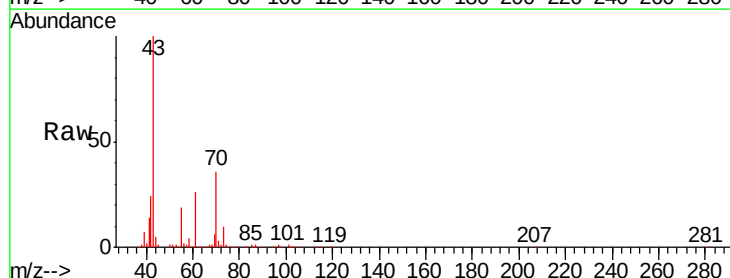
Ion Ratio Lower Upper

43 100

70 36.3 25.5 38.3

55 19.2 14.9 22.3

61 26.4 18.6 27.8



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

11.36

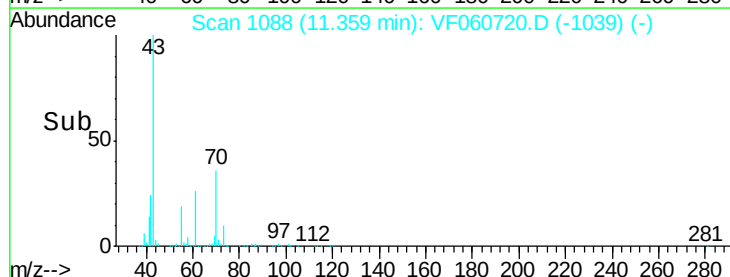
150000

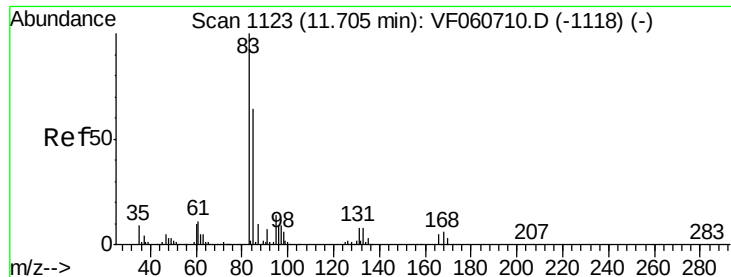
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.69 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

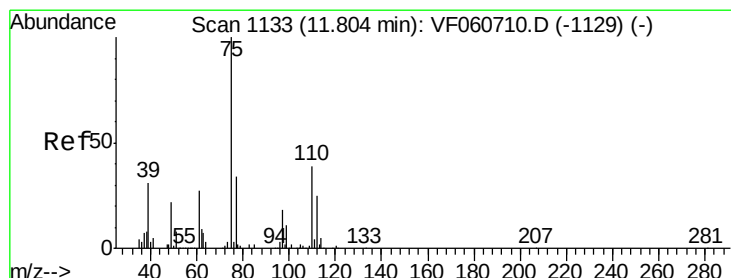
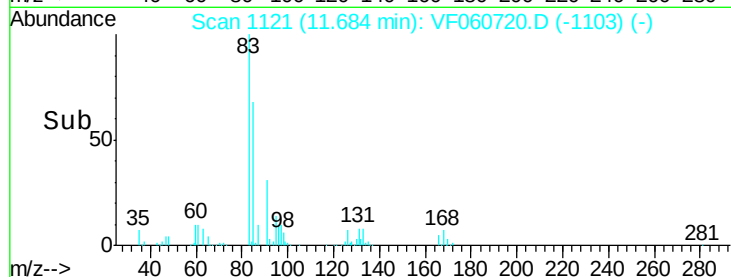
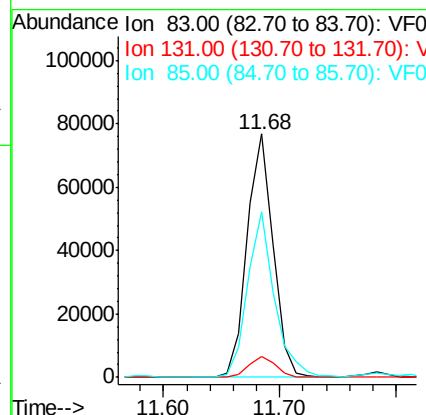
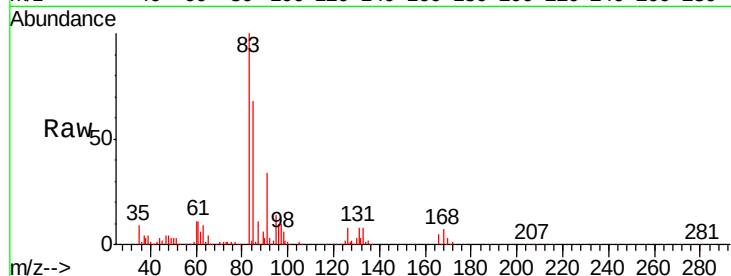
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	119266
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.2	12.4
85	68.0	32.0	96.2

Manual Integrations
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11/15/2018 1:30:39 PM



#76

1,2,3-Trichloropropane

Concen: 47.73 ug/l

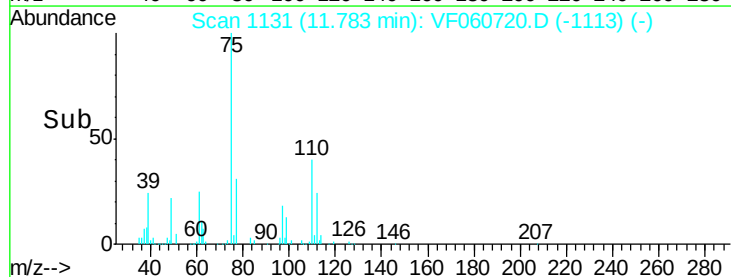
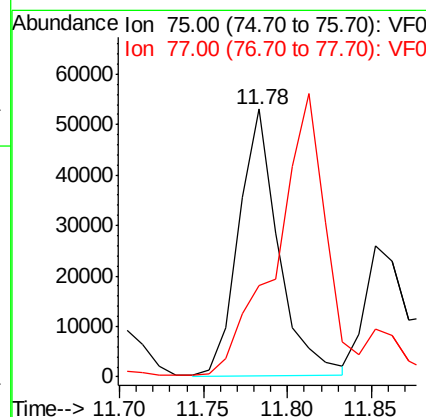
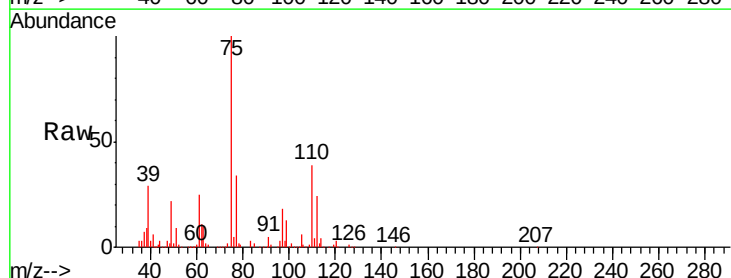
RT: 11.78 min Scan# 1131

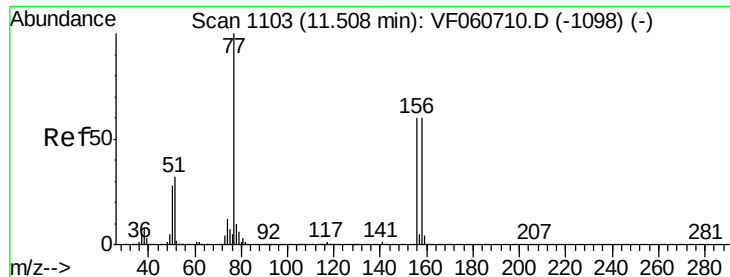
Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	75	Resp:	86826
Ion Ratio	Lower	Upper	
75	100		
77	34.2	17.0	51.0





#77

Bromobenzene

Concen: 51.85 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

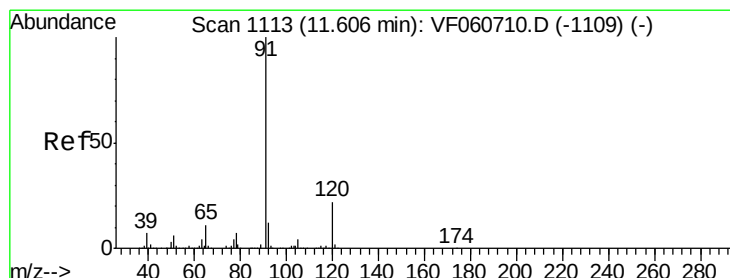
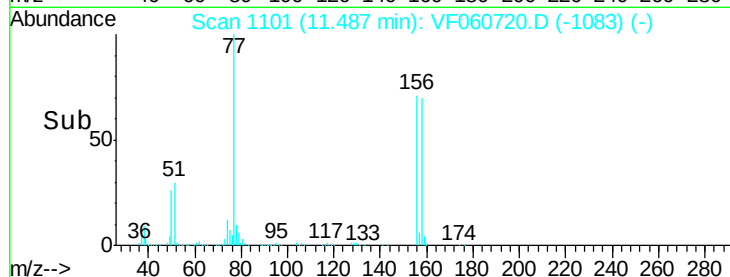
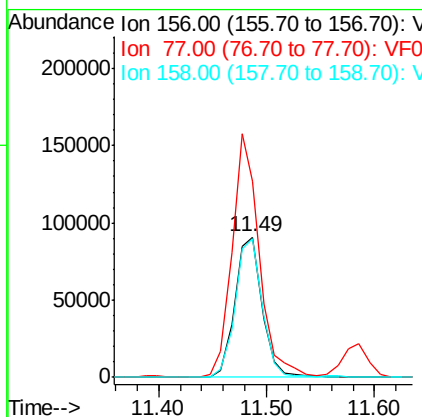
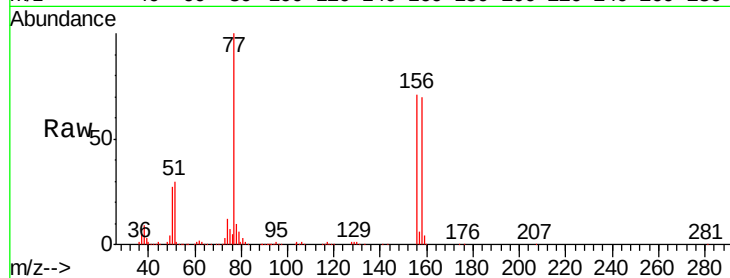
ClientSampleId :

VSTDCCC050

Tgt Ion:	156	Resp:	159926
Ion Ratio	Lower	Upper	
156	100		
77	140.2	83.0	248.9
158	98.7	49.6	149.0

Manual Integrations
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11/15/2018 1:30:39 PM



#78

n-propylbenzene

Concen: 48.22 ug/l

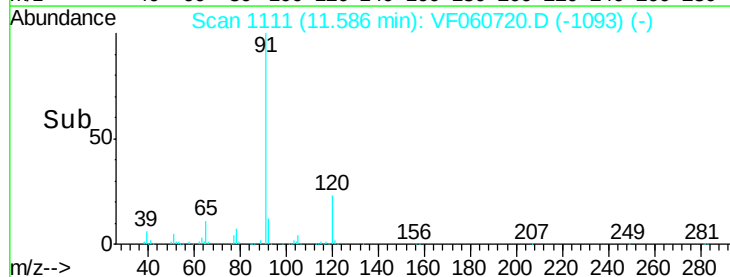
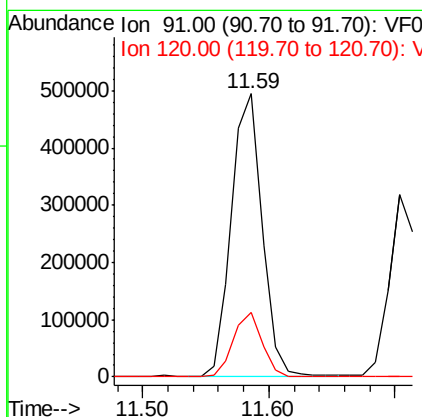
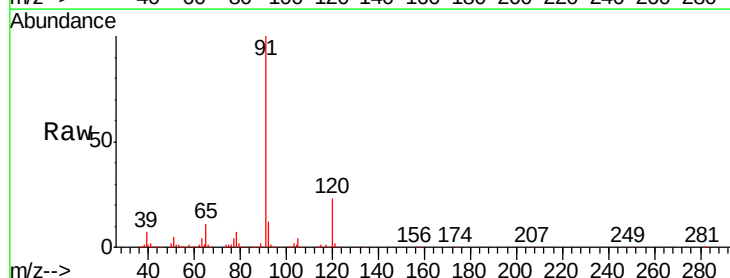
RT: 11.59 min Scan# 1111

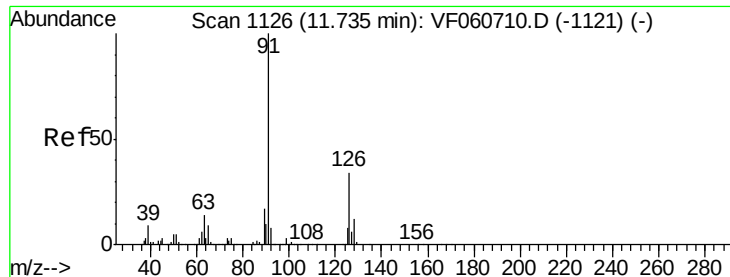
Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	91	Resp:	833316
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.2	33.5





#79

2-Chlorotoluene

Concen: 49.77 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 499901

Ion Ratio Lower Upper

91 100

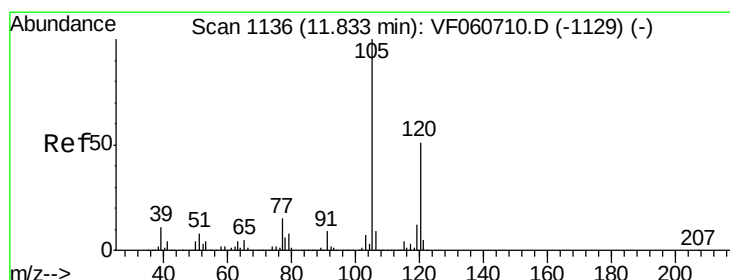
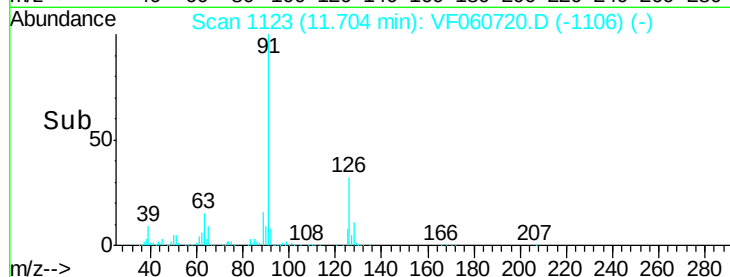
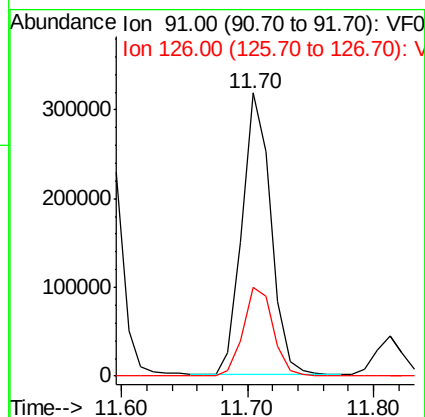
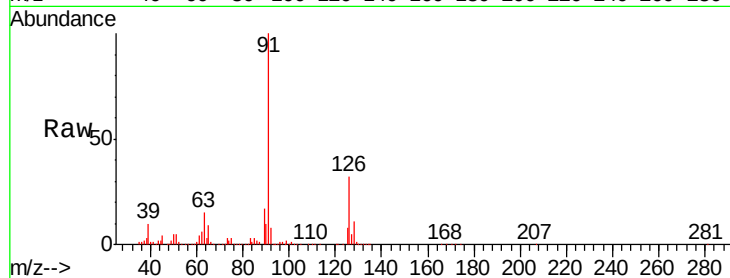
126 31.6 16.8 50.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 52.51 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF060720.D

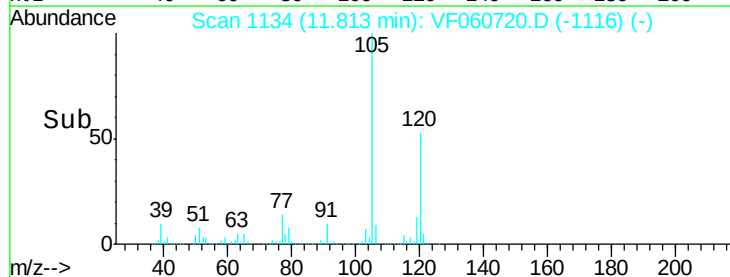
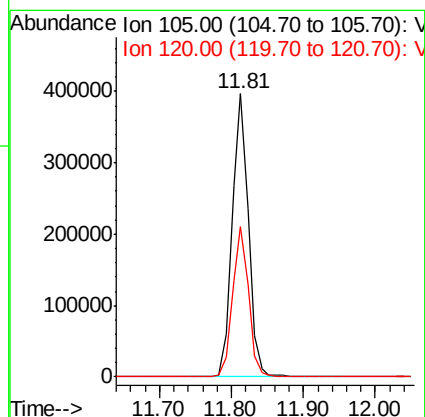
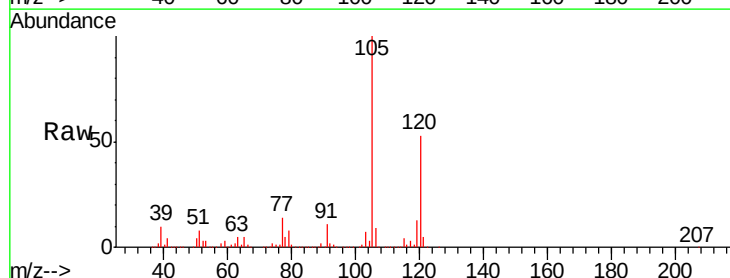
Acq: 14 Nov 2018 11:48

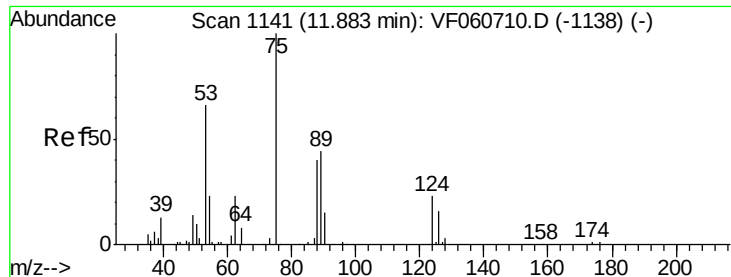
Tgt Ion: 105 Resp: 617687

Ion Ratio Lower Upper

105 100

120 53.3 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 45.42 ug/l m

RT: 11.85 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

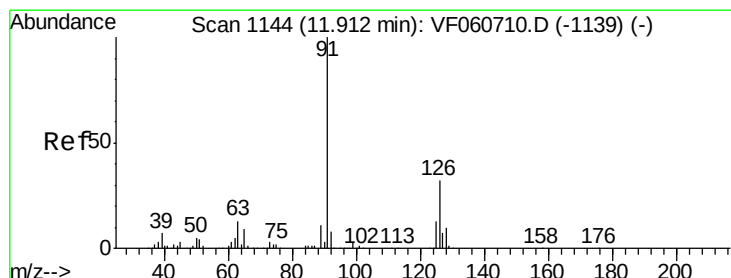
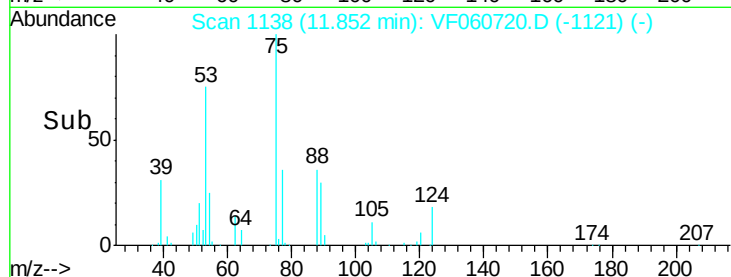
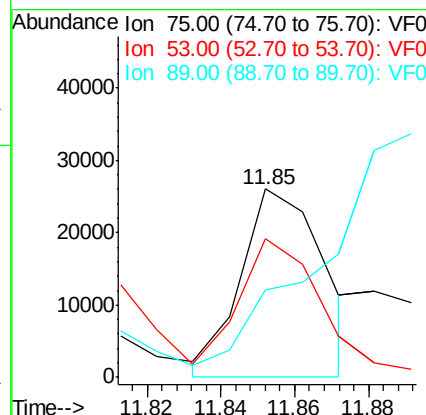
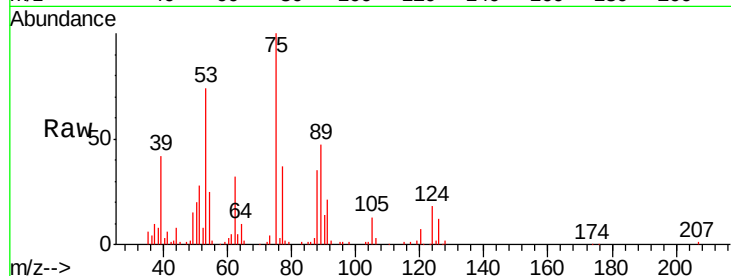
ClientSampleId :

VSTDCCC050

Tgt Ion:	75	Resp:	40598
Ion	Ratio	Lower	Upper
75	100		
53	73.6	57.0	85.4
89	46.7	37.8	56.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.94 ug/l

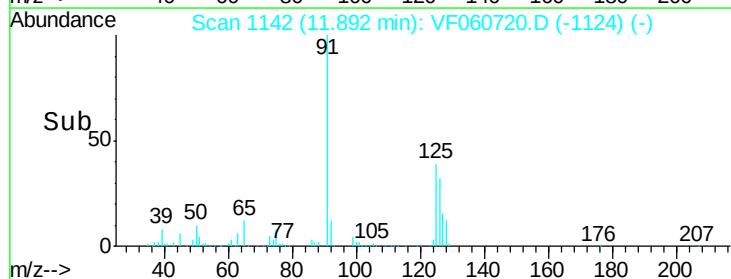
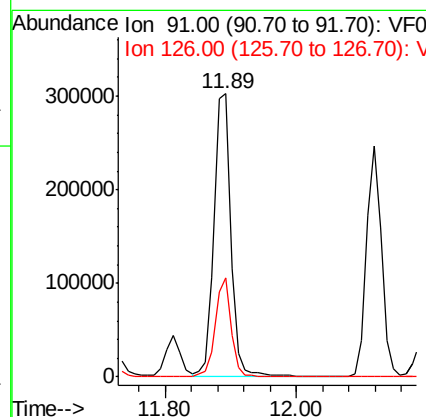
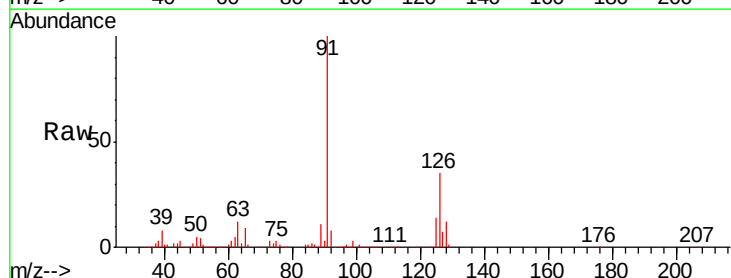
RT: 11.89 min Scan# 1142

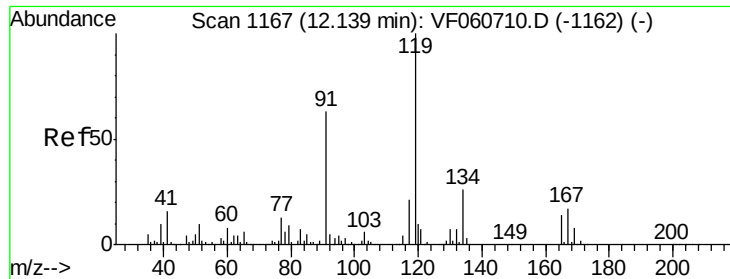
Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	91	Resp:	524125
Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.0	47.9





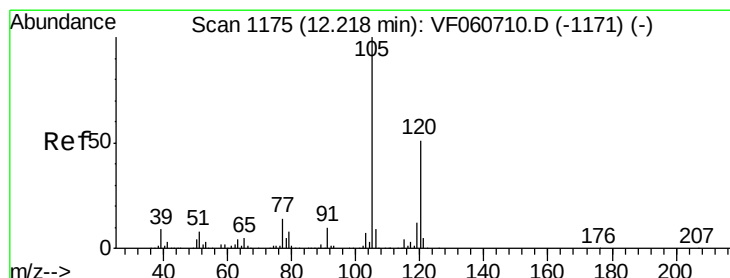
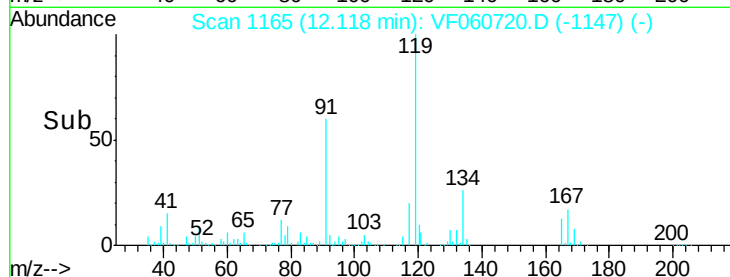
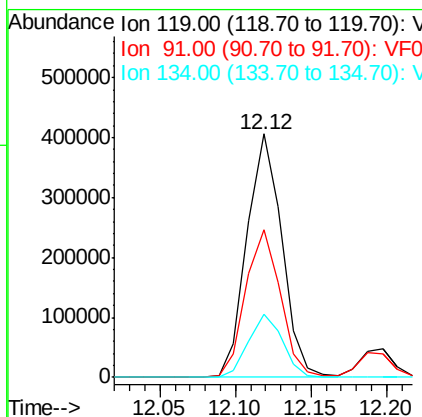
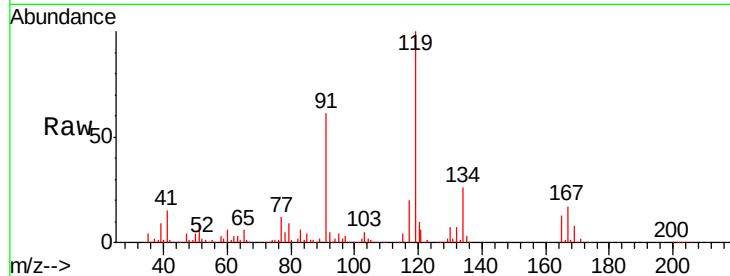
#83
 tert-Butylbenzene
 Concen: 52.72 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	658512		
91	60.8	31.4	94.3	
134	25.8	12.8	38.4	

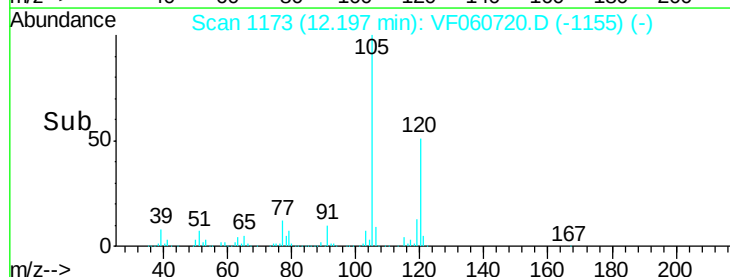
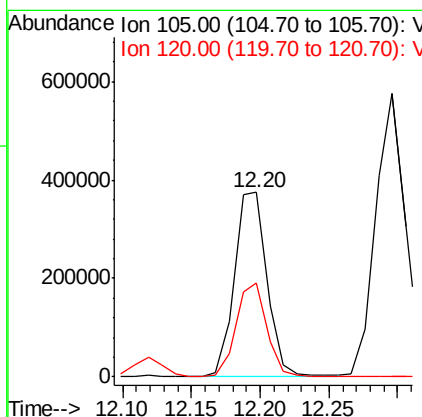
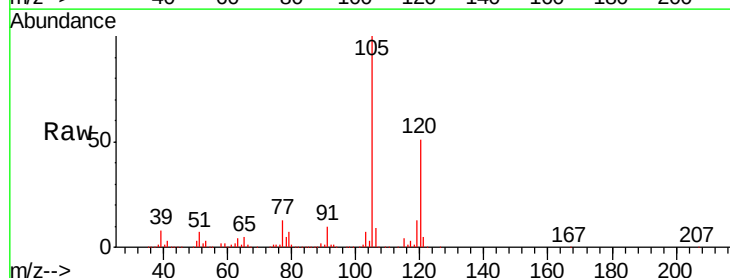
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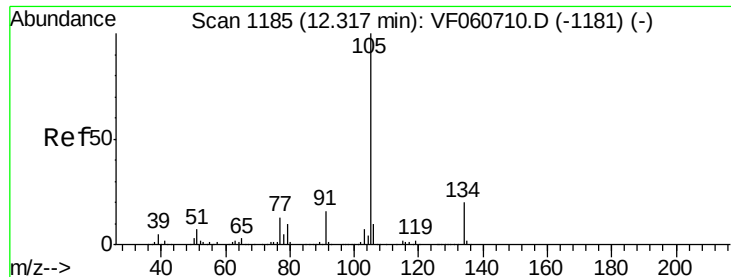
MMDadoda
 11/15/2018 1:30:39 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 51.02 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	620692		
120	51.1	25.5	76.5	





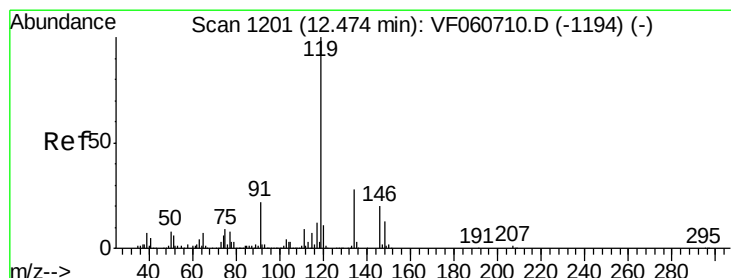
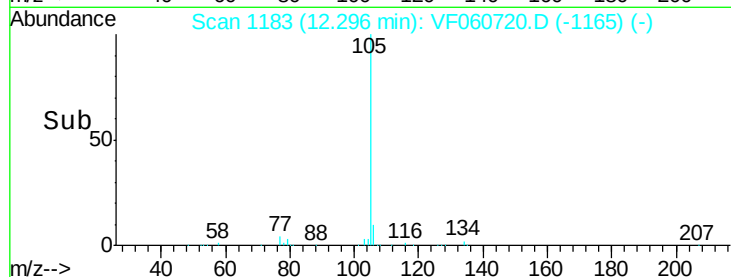
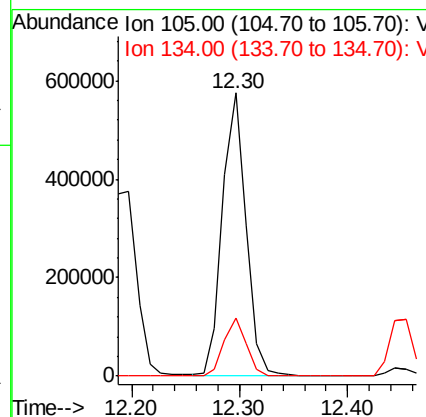
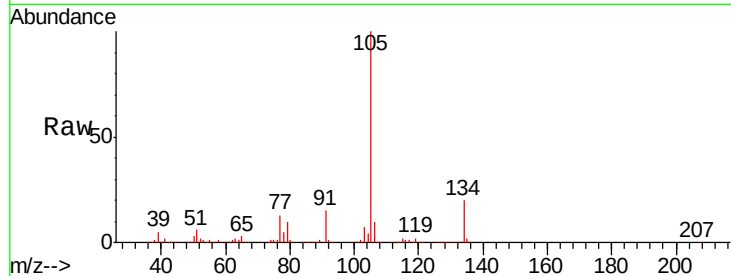
#85
 sec-Butylbenzene
 Concen: 51.52 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.1	30.3

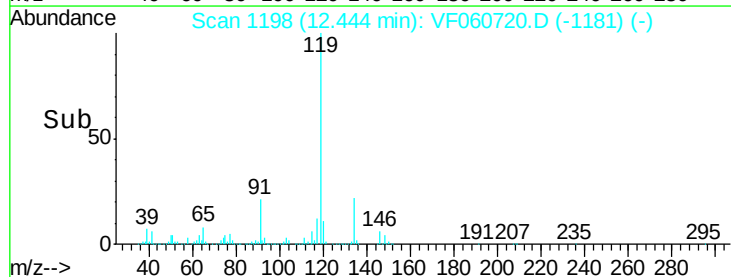
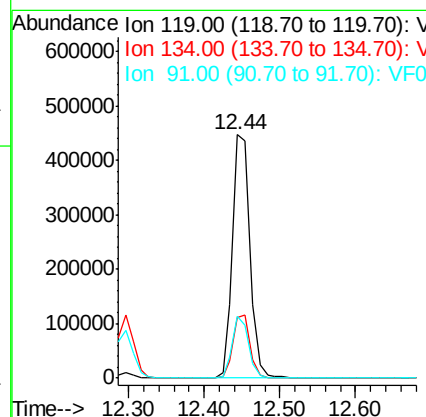
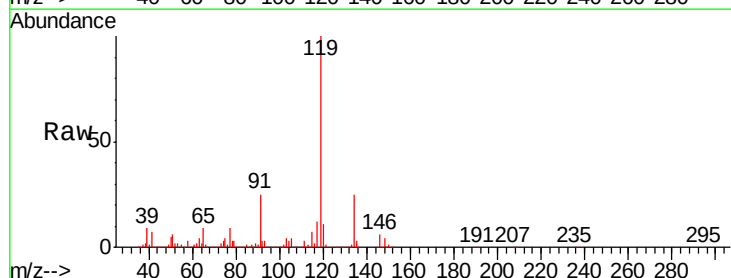
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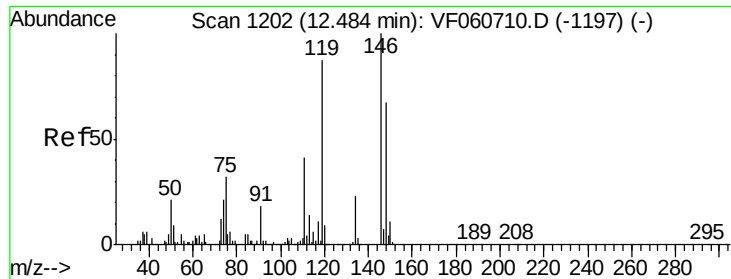
MMDadoda
 11/15/2018 1:30:39 PM



#86
 p-Isopropyltoluene
 Concen: 50.50 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.1	13.9	41.7
91	25.3	11.3	33.9





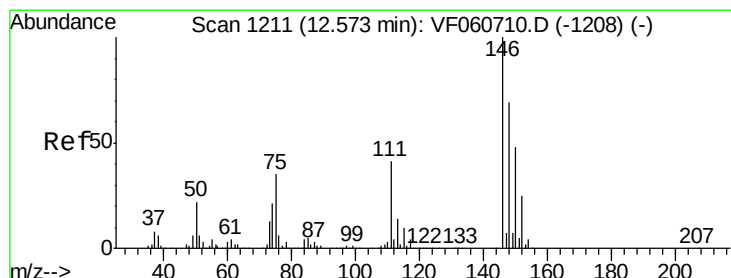
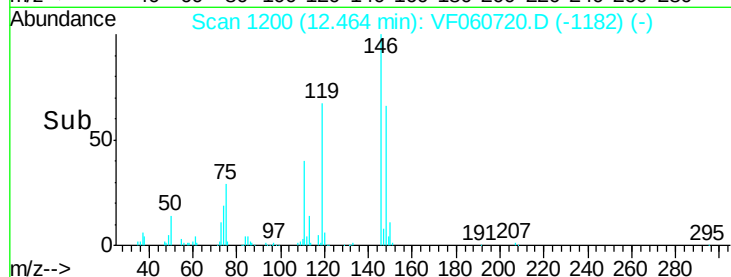
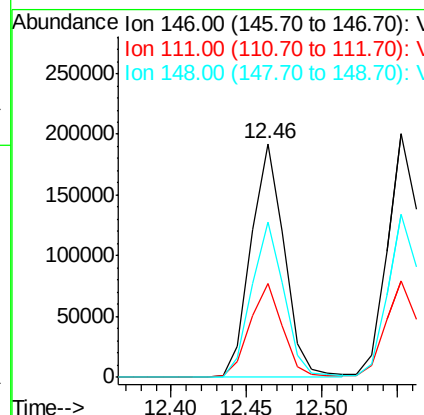
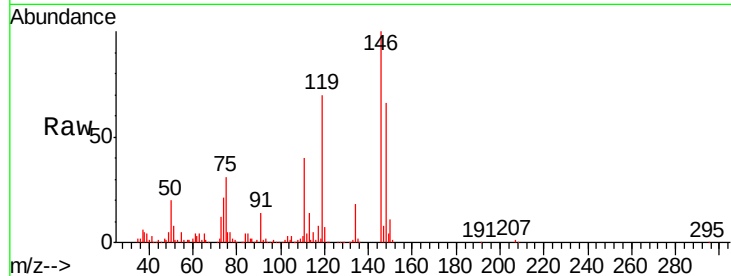
#87
 1,3-Dichlorobenzene
 Concen: 48.42 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	297198		
111	40.1	20.3	60.8	
148	66.4	33.3	99.9	

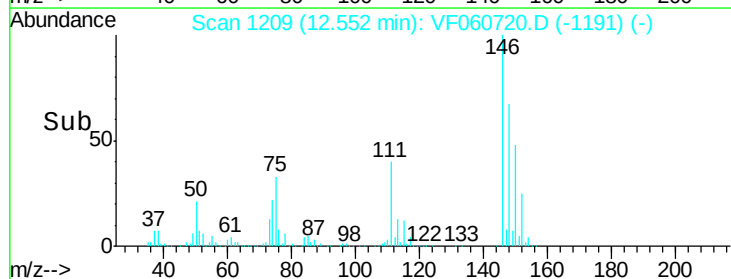
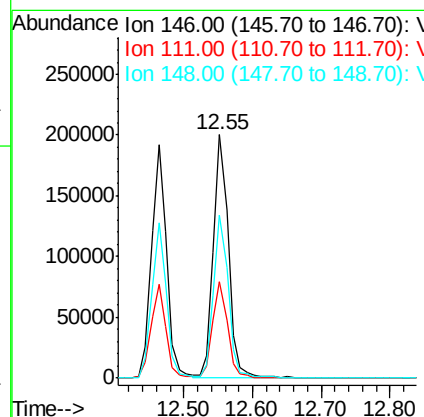
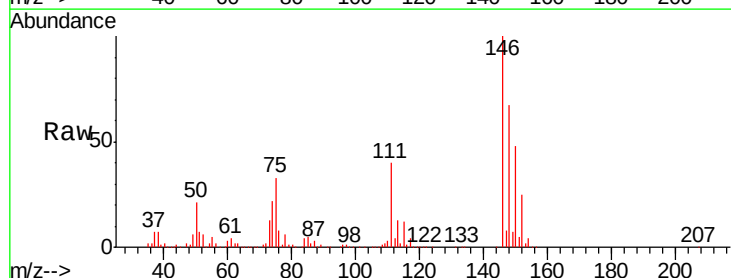
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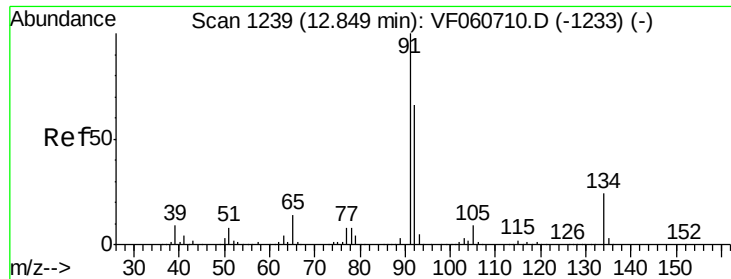
MMDadoda
 11/15/2018 1:30:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 52.23 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	308072		
111	39.7	20.6	61.9	
148	66.8	34.7	104.1	





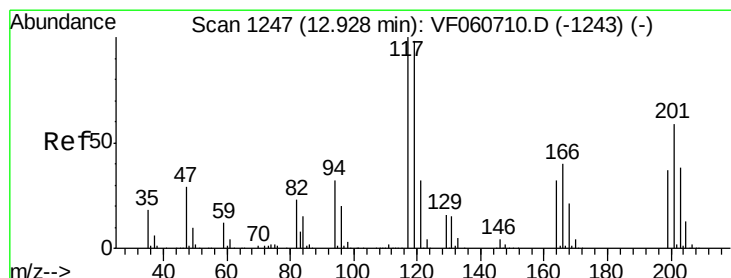
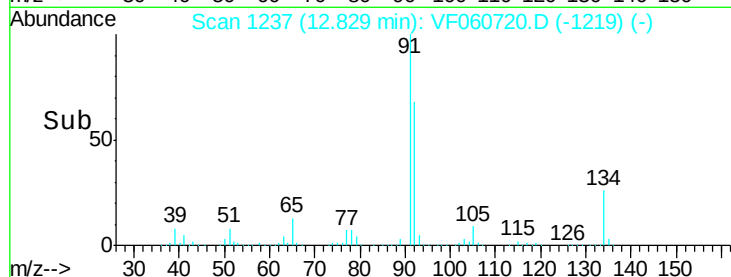
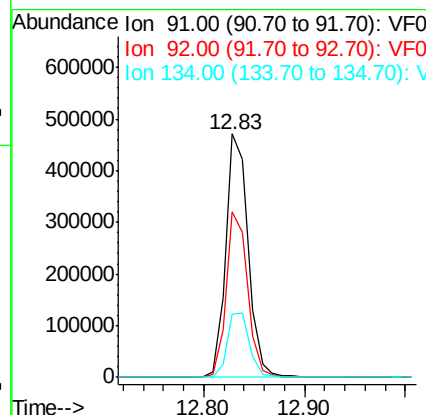
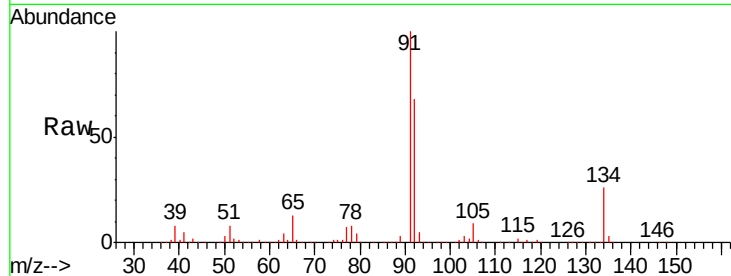
#89
n-Butylbenzene
Concen: 50.27 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
91	100		
92	67.9	33.1	99.2
134	25.7	11.9	35.9

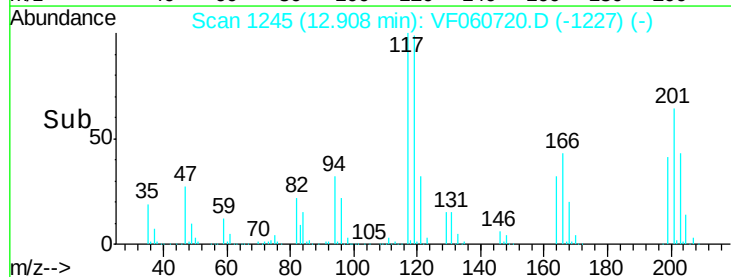
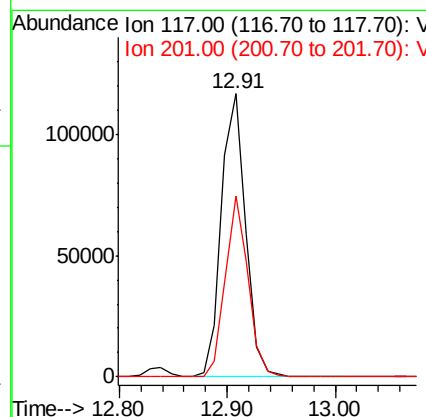
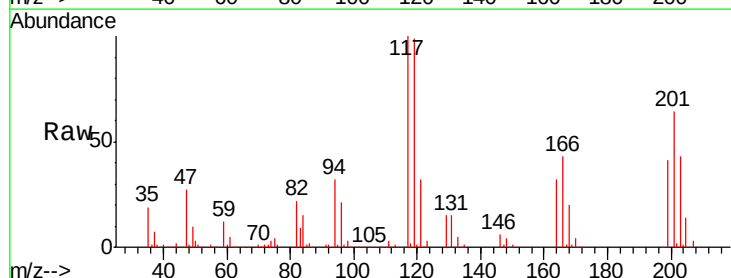
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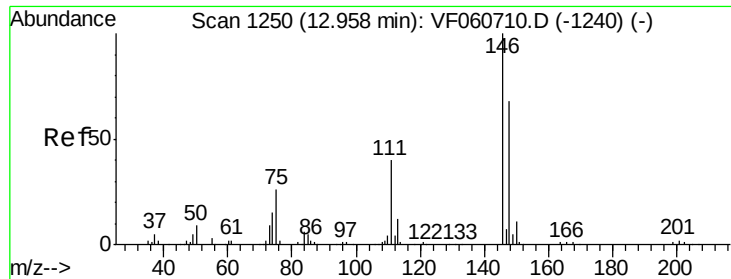
MMDadoda
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#90
Hexachloroethane
Concen: 52.48 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060720.D
Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	64.1	29.4	88.3





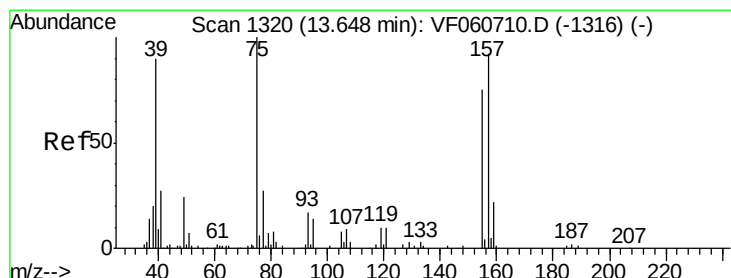
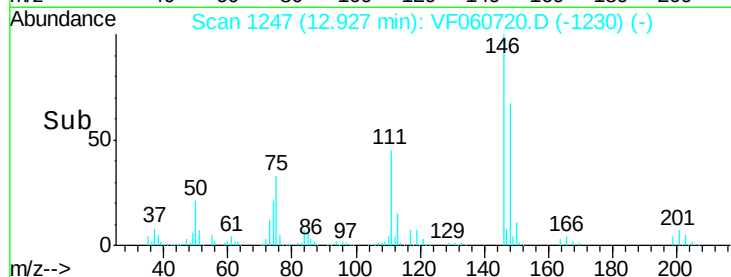
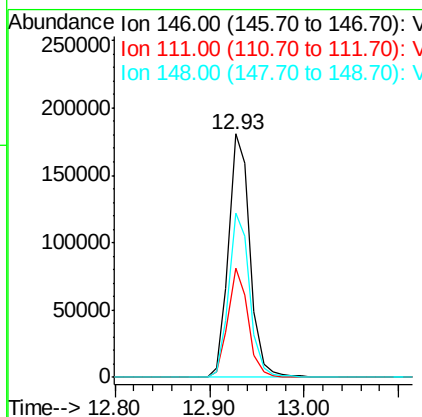
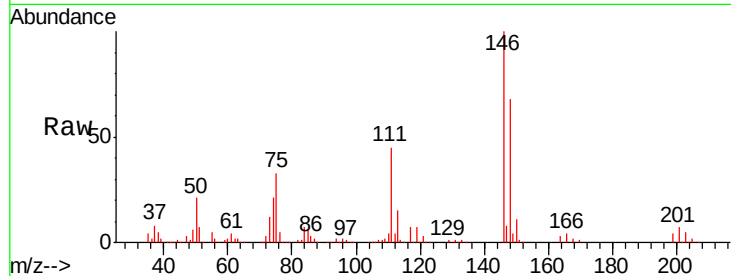
#91
 1,2-Dichlorobenzene
 Concen: 49.17 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.03 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.1	20.3	60.8
148	67.6	34.1	102.3

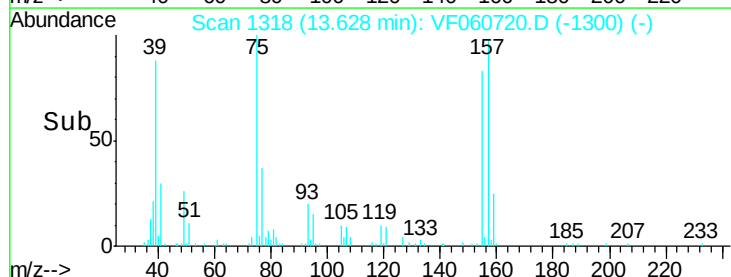
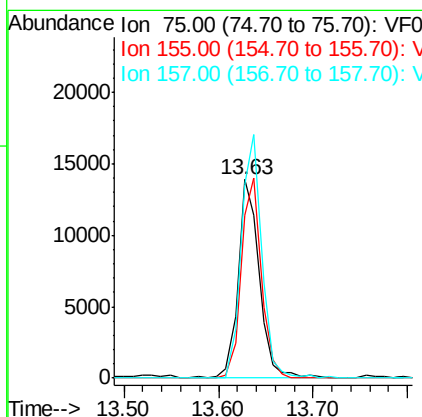
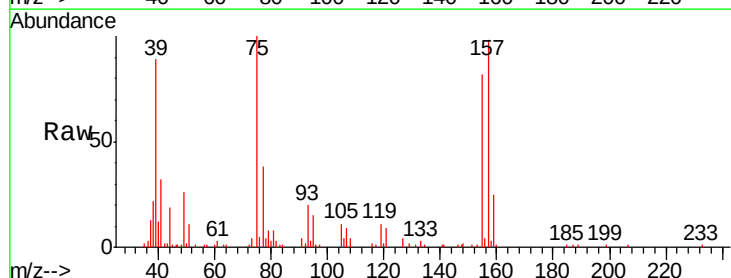
Manual Integrations
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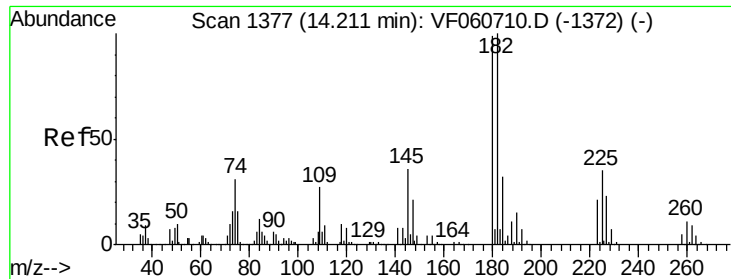
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 11/15/2018 1:30:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.96 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.9	37.4	112.2
157	97.6	46.0	138.0





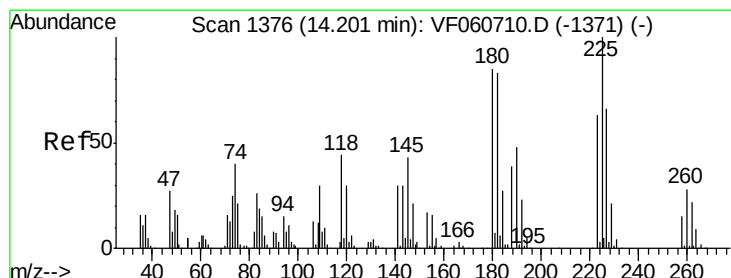
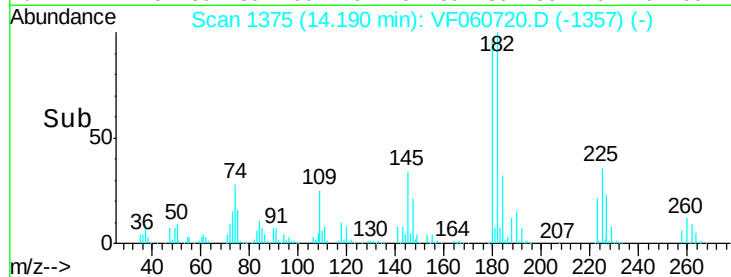
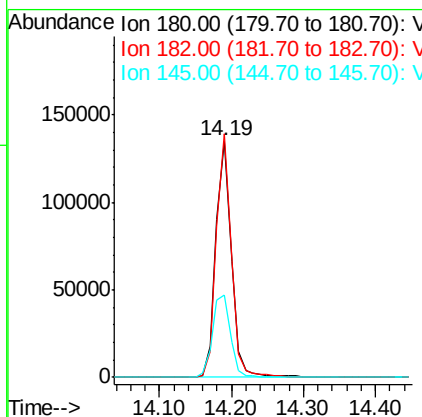
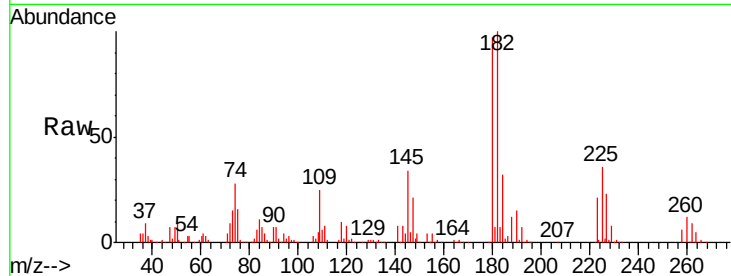
#93
 1,2,4-Trichlorobenzene
 Concen: 48.31 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	200649		
182	103.1	50.3	151.0	
145	34.8	18.3	54.9	

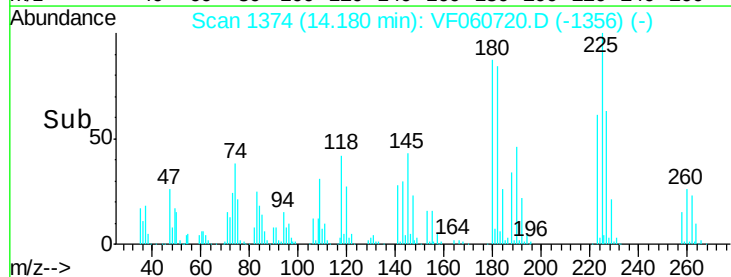
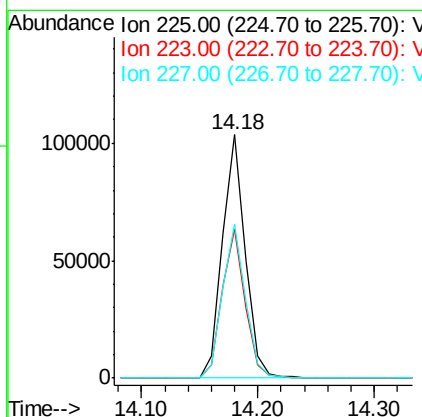
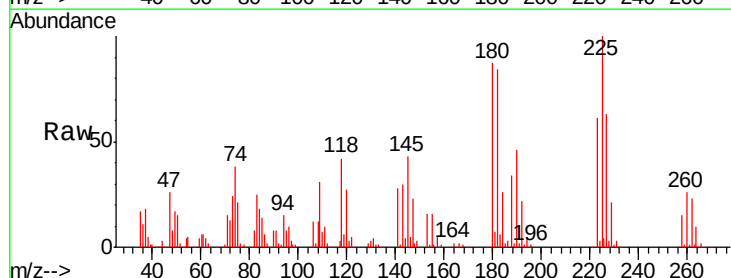
Manual Integrations
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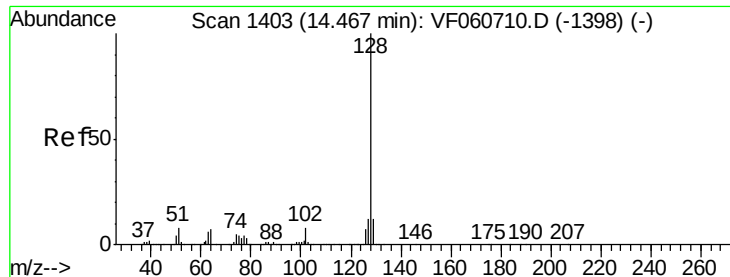
MMDadoda
 11/15/2018 1:30:39 PM



#94
 Hexachlorobutadiene
 Concen: 52.07 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF060720.D
 Acq: 14 Nov 2018 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	141338		
223	61.3	31.5	94.5	
227	63.3	33.0	99.0	





#95

Naphthalene

Concen: 52.37 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Instrument :

MSVOA_F

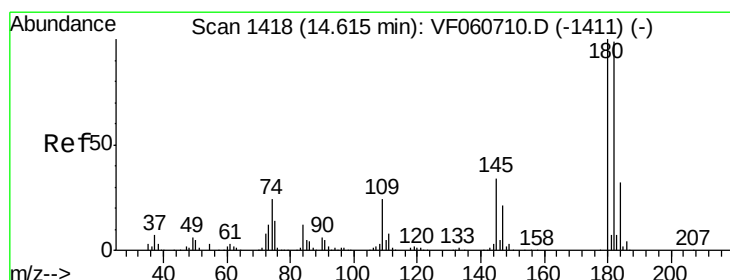
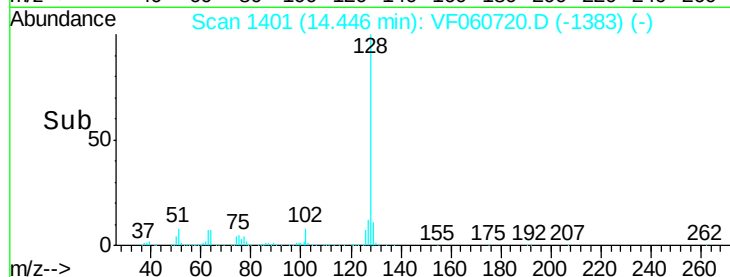
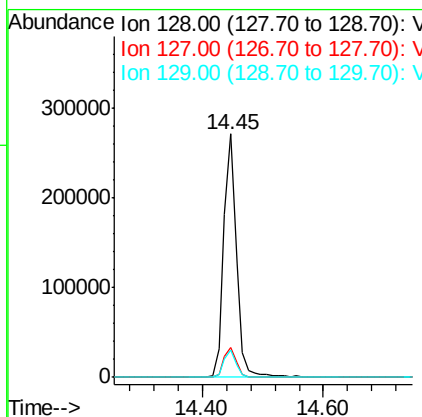
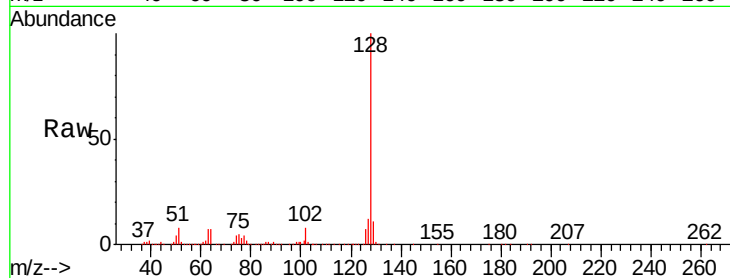
ClientSampleId :

VSTDCCC050

Tgt Ion:	128	Resp:	396923
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.8	14.6
129	11.4	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
11/15/2018 1:30:39 PM



#96

1,2,3-Trichlorobenzene

Concen: 50.44 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF060720.D

Acq: 14 Nov 2018 11:48

Tgt Ion:	180	Resp:	193606
Ion Ratio	Lower	Upper	
180	100		
182	98.8	49.6	149.0
145	32.5	16.9	50.7

