

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032019\
 Data File : VF062032.D
 Acq On : 20 Mar 2019 10:28
 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
 3/22/2019 4:51:23 PM

Quant Time: Mar 22 05:25:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	279733	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	420235	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	362761	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.53	152	192696	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	84050	41.74	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	83.48%	
35) Dibromofluoromethane	4.08	113	131437	46.58	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	93.16%	
50) Toluene-d8	7.52	98	364690	44.21	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	88.42%	
62) 4-Bromofluorobenzene	11.39	95	148941	45.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	90.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	121522	40.751	ug/l	99
3) Chloromethane	1.11	50	126443	41.724	ug/l #	89
4) Vinyl Chloride	1.14	62	129872	44.311	ug/l	99
5) Bromomethane	1.32	94	92179	44.770	ug/l	96
6) Chloroethane	1.37	64	65946	43.585	ug/l	94
7) Trichlorofluoromethane	1.48	101	174957	45.058	ug/l	90
8) Diethyl Ether	1.62	74	37561	43.514	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.82	101	123374	45.097	ug/l	93
10) Methyl Iodide	1.88	142	220720m	46.085	ug/l	
11) Tert butyl alcohol	2.56	59	22540	182.931	ug/l #	93
12) 1,1-Dichloroethene	1.78	96	101879	43.152	ug/l	95
13) Acrolein	1.99	56	22273	167.447	ug/l	91
14) Allyl chloride	2.08	41	147540	48.956	ug/l	93
15) Acrylonitrile	2.92	53	79316	211.683	ug/l	98
16) Acetone	2.23	43	130341	288.258	ug/l	96
17) Carbon Disulfide	1.82	76	283068m	41.477	ug/l	
18) Methyl Acetate	2.34	43	44631	43.556	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	180870	42.278	ug/l	98
20) Methylene Chloride	2.17	84	98087m	41.576	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	107992	43.831	ug/l	97
22) Diisopropyl ether	2.78	45	300193	41.411	ug/l	98
23) Vinyl Acetate	3.17	43	625252	218.799	ug/l	97
24) 1,1-Dichloroethane	2.85	63	181363	43.028	ug/l	99
25) 2-Butanone	4.31	43	189405	211.506	ug/l	95
26) 2,2-Dichloropropane	3.57	77	89164	44.847	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	133795	43.085	ug/l	100
28) Bromochloromethane	3.70	49	82448	47.141	ug/l	94
29) Tetrahydrofuran	4.04	42	79144	203.220	ug/l	95
30) Chloroform	3.84	83	204188	42.755	ug/l	95
31) Cyclohexane	3.68	56	172821	41.504	ug/l	98
32) 1,1,1-Trichloroethane	4.07	97	152534	48.093	ug/l	96
36) 1,1-Dichloropropene	4.25	75	162943	42.937	ug/l	96
37) Ethyl Acetate	4.08	43	64353	37.767	ug/l	87
38) Carbon Tetrachloride	3.97	117	131799	47.522	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	184149	41.334	ug/l	95
40) Benzene	4.61	78	426638	42.428	ug/l	99
41) Methacrylonitrile	4.71	41	38134	41.888	ug/l	94
42) 1,2-Dichloroethane	4.92	62	111966	44.729	ug/l	98
43) Isopropyl Acetate	6.93	43	80842	40.099	ug/l	96
44) Trichloroethene	5.47	130	133445	43.321	ug/l	99
45) 1,2-Dichloropropane	6.21	63	105196	44.205	ug/l	98
46) Dibromomethane	6.06	93	64728	45.723	ug/l	94
47) Bromodichloromethane	6.36	83	144850	43.400	ug/l #	98
48) Methyl methacrylate	6.70	41	51398	39.447	ug/l	88
49) 1,4-Dioxane	6.69	88	9040	779.991	ug/l #	82
51) 4-Methyl-2-Pentanone	8.23	43	289119	201.951	ug/l	97
52) Toluene	7.59	92	258797	42.122	ug/l	98
53) t-1,3-Dichloropropene	8.25	75	120609	42.804	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	154218	41.946	ug/l	97
55) 1,1,2-Trichloroethane	8.47	97	79939	46.617	ug/l	95
56) Ethyl methacrylate	8.60	69	84163	43.176	ug/l	99
57) 1,3-Dichloropropane	8.83	76	127723	44.651	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.27	63	65740	186.194	ug/l	94
59) 2-Hexanone	9.47	43	228932	220.960	ug/l	99
60) Dibromochloromethane	8.69	129	111139	46.686	ug/l	95
61) 1,2-Dibromoethane	8.96	107	79275	43.099	ug/l	97
64) Tetrachloroethene	8.13	164	118239	44.840	ug/l	95
65) Chlorobenzene	9.77	112	297304	44.019	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.90	131	121024	46.228	ug/l	97
67) Ethyl Benzene	9.87	91	481962	41.677	ug/l	100
68) m/p-Xylenes	10.11	106	365899	84.126	ug/l	100
69) o-Xylene	10.69	106	193515	41.580	ug/l	98
70) Styrene	10.77	104	294175	45.625	ug/l	97
71) Bromoform	10.75	173	60904	45.993	ug/l #	98
73) Isopropylbenzene	11.10	105	595680	44.746	ug/l	100
74) N-amyl acetate	11.35	43	130740	42.860	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.68	83	95807	43.600	ug/l	93
76) 1,2,3-Trichloropropane	11.77	75	64995	42.299	ug/l	95
77) Bromobenzene	11.48	156	135771	44.039	ug/l	96
78) n-propylbenzene	11.58	91	642742	41.989	ug/l	99
79) 2-Chlorotoluene	11.70	91	382772	44.300	ug/l	98
80) 1,3,5-Trimethylbenzene	11.80	105	456577	42.458	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	31665m	46.583	ug/l	
82) 4-Chlorotoluene	11.88	91	378803	43.353	ug/l	99
83) tert-Butylbenzene	12.11	119	513145	45.627	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	466341	43.295	ug/l	99
85) sec-Butylbenzene	12.29	105	675445	44.452	ug/l	98
86) p-Isopropyltoluene	12.45	119	575135	45.361	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	272551	44.981	ug/l	95
88) 1,4-Dichlorobenzene	12.54	146	257074	44.079	ug/l	98
89) n-Butylbenzene	12.83	91	541566	45.456	ug/l	99
90) Hexachloroethane	12.90	117	139483	48.205	ug/l	99
91) 1,2-Dichlorobenzene	12.93	146	259633	46.264	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	14608	41.427	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	181470	46.436	ug/l	97
94) Hexachlorobutadiene	14.17	225	118347	45.616	ug/l	98
95) Naphthalene	14.44	128	296246	42.148	ug/l	100
96) 1,2,3-Trichlorobenzene	14.59	180	168971	46.997	ug/l	97

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

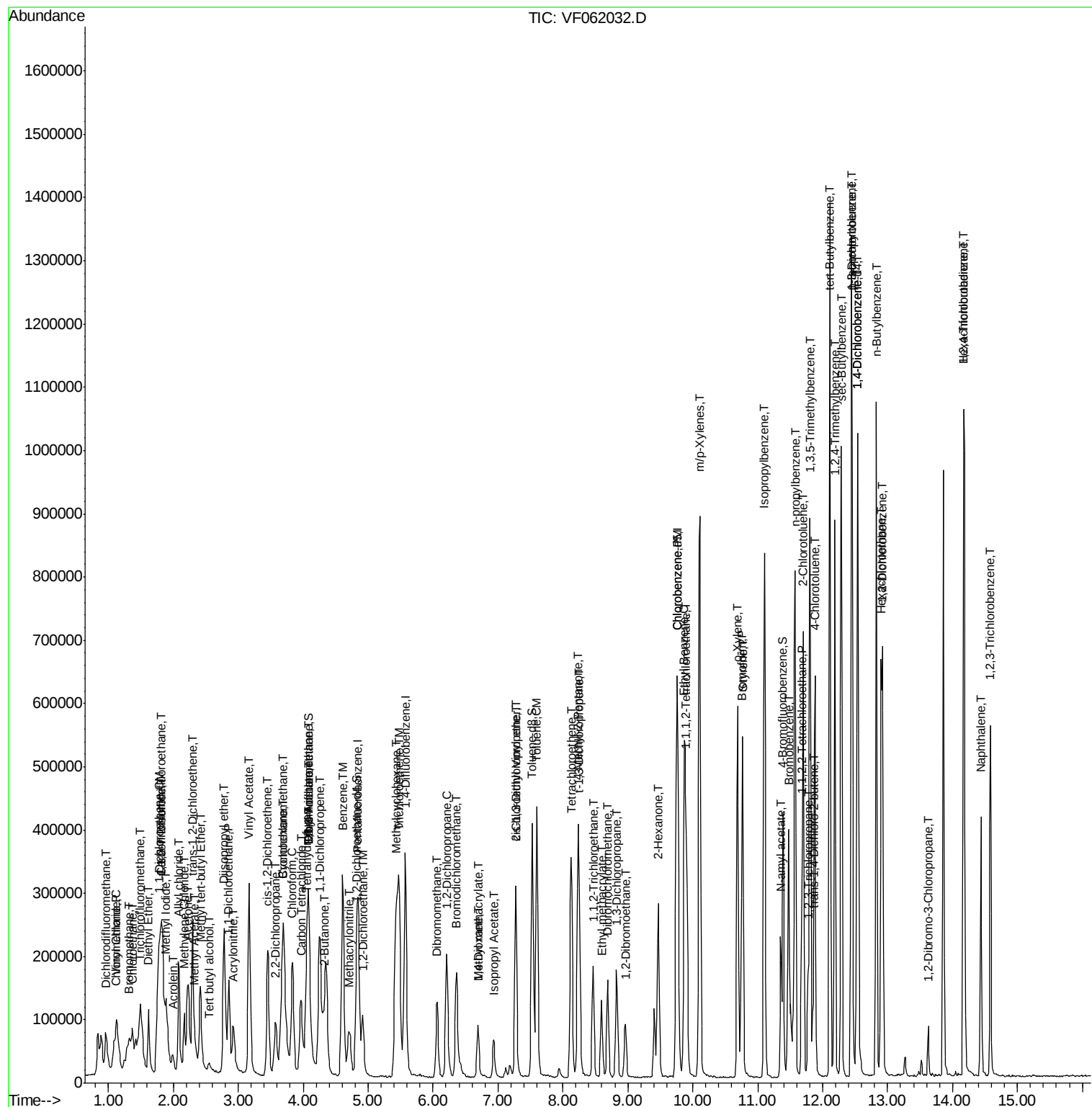
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032019\
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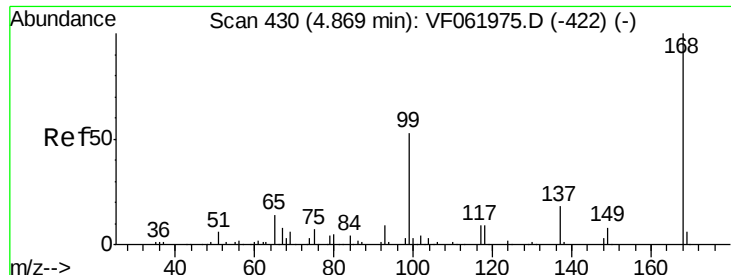
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 279733

Ion Ratio Lower Upper

168 100

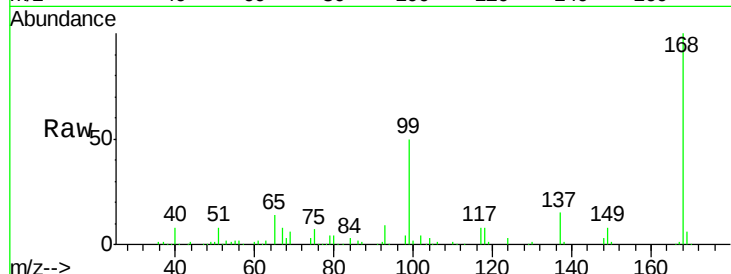
99 49.8 42.4 63.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

100000

80000

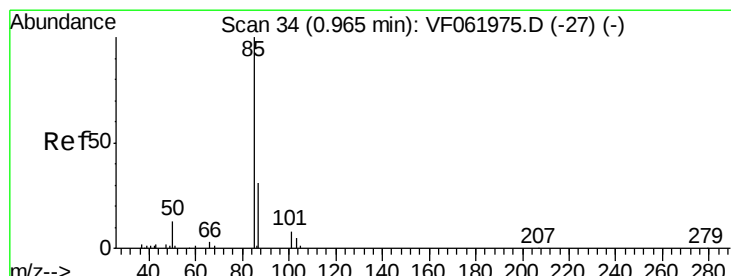
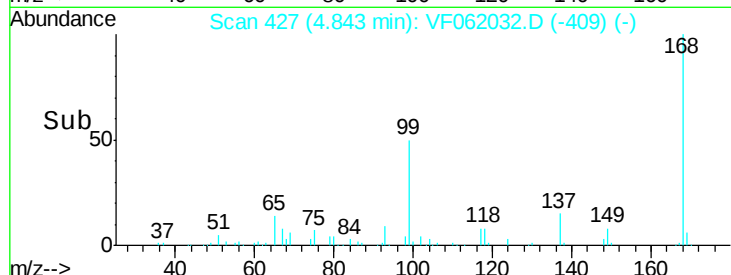
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 40.751 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF062032.D

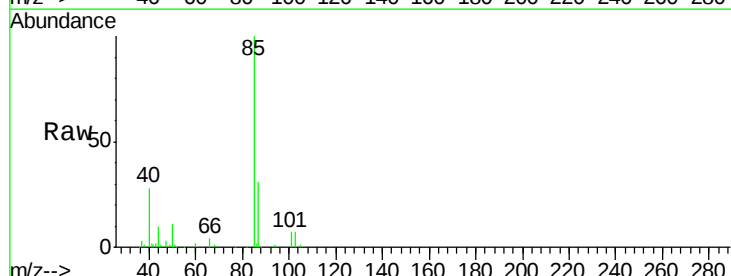
Acq: 20 Mar 2019 10:28

Tgt Ion: 85 Resp: 121522

Ion Ratio Lower Upper

85 100

87 31.4 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

40000

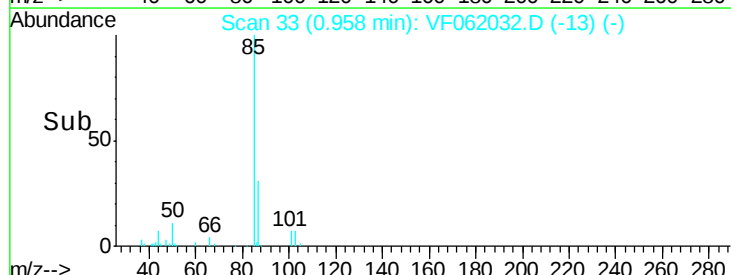
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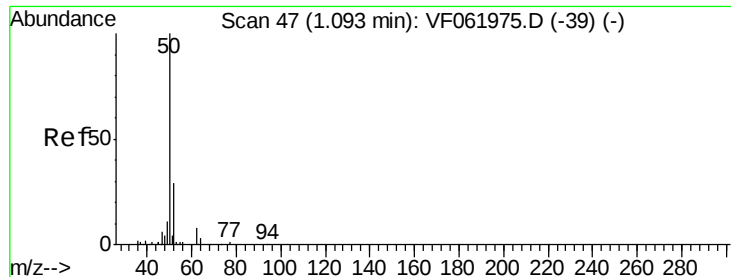
20000

10000

0

Time-->





#3

Chloromethane

Concen: 41.724 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 126443

Ion Ratio Lower Upper

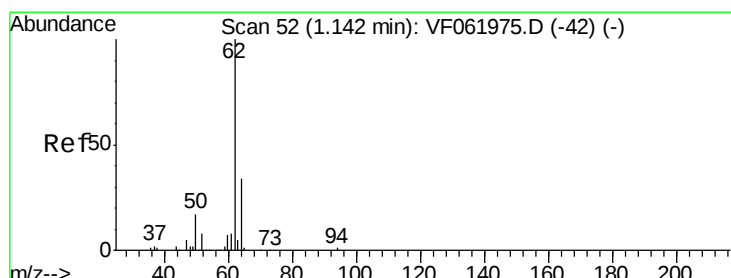
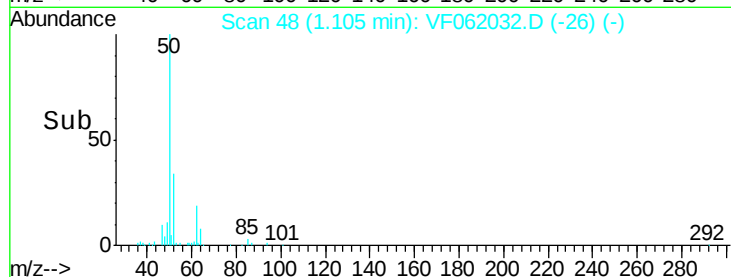
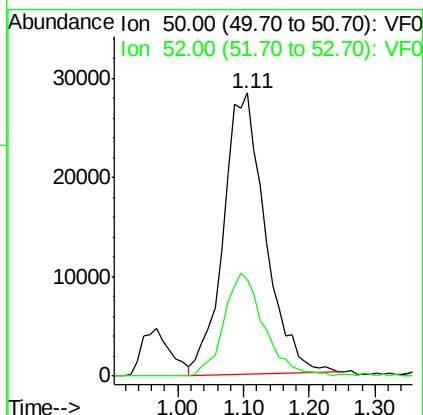
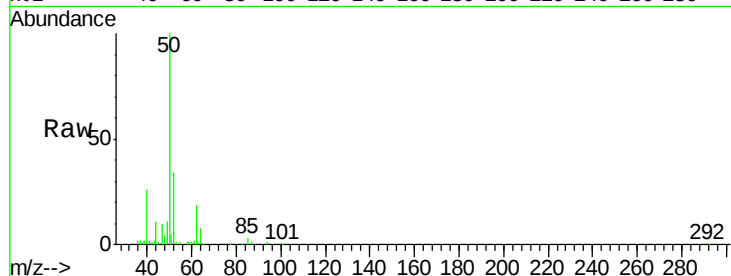
50 100

52 34.1 22.6 34.0#

Manual Integrations
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#4

Vinyl Chloride

Concen: 44.311 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF062032.D

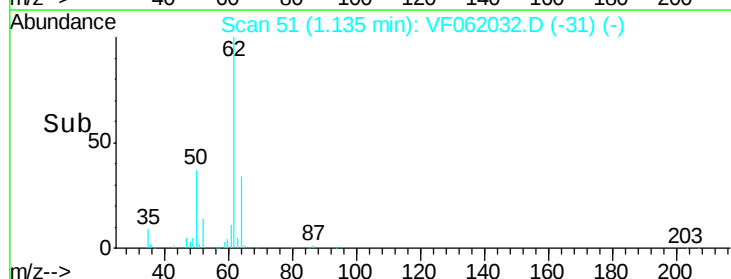
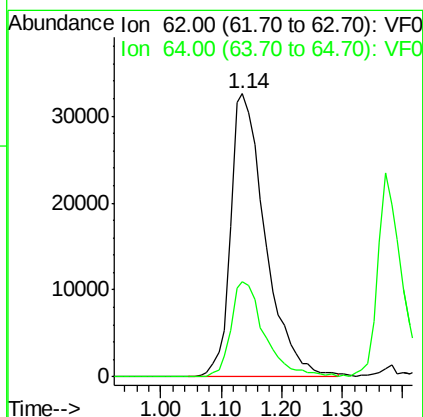
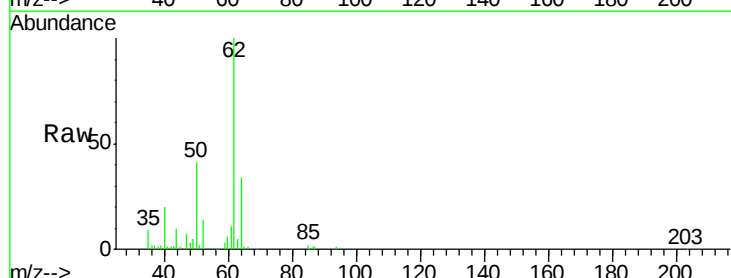
Acq: 20 Mar 2019 10:28

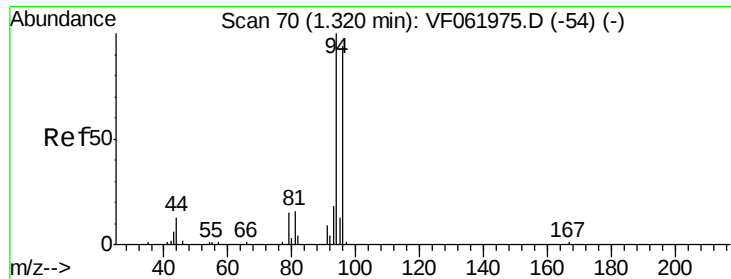
Tgt Ion: 62 Resp: 129872

Ion Ratio Lower Upper

62 100

64 33.7 27.4 41.2





#5

Bromomethane

Concen: 44.770 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 92179

Ion Ratio Lower Upper

94 100

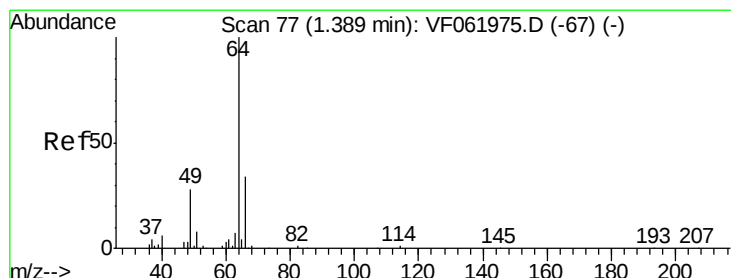
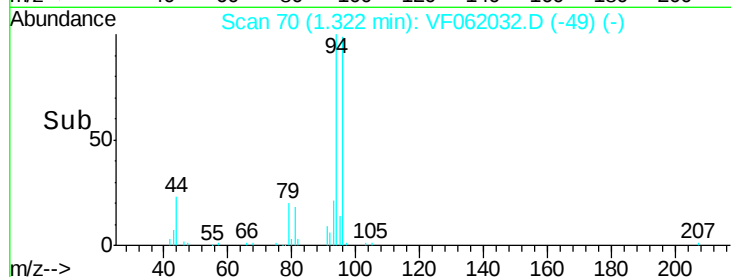
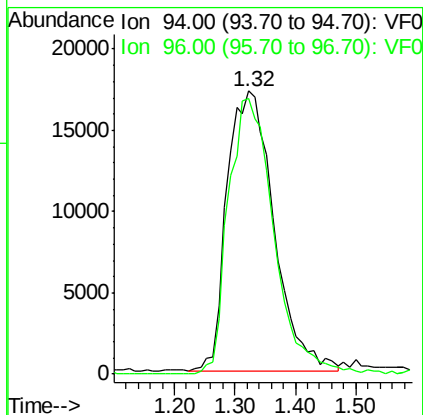
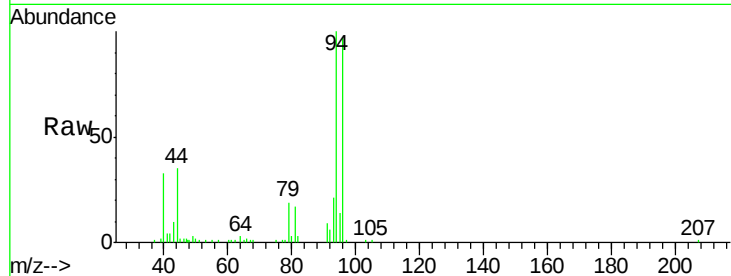
96 97.4 75.0 112.6

Manual Integrations

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#6

Chloroethane

Concen: 43.585 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF062032.D

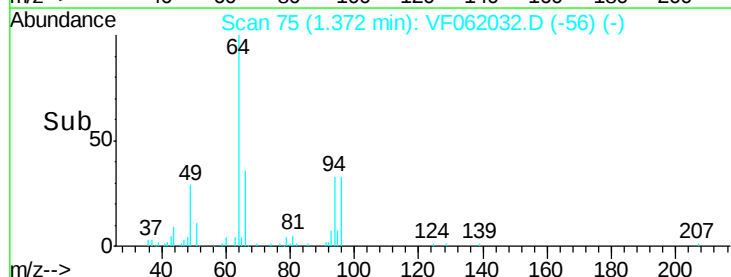
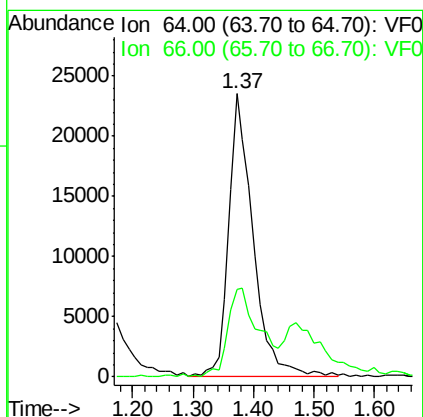
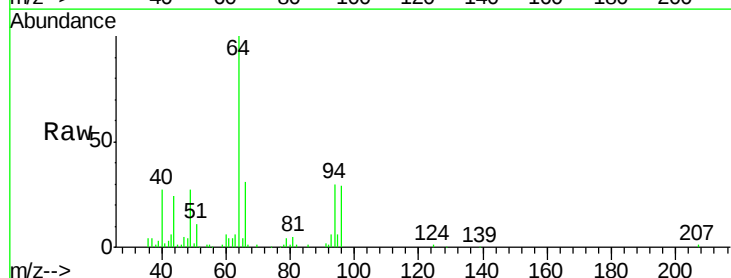
Acq: 20 Mar 2019 10:28

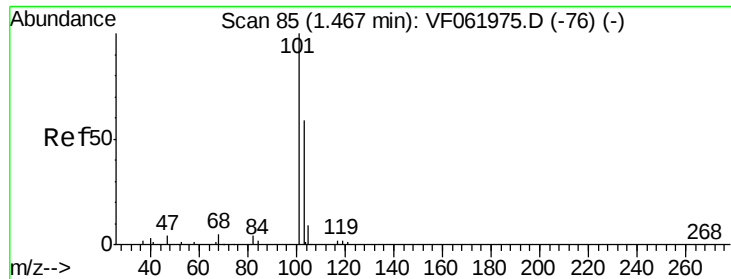
Tgt Ion: 64 Resp: 65946

Ion Ratio Lower Upper

64 100

66 30.9 27.6 41.4





#7

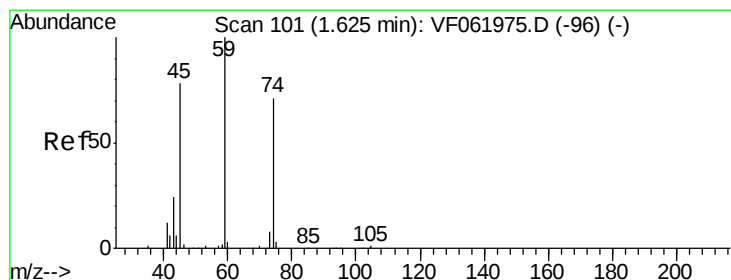
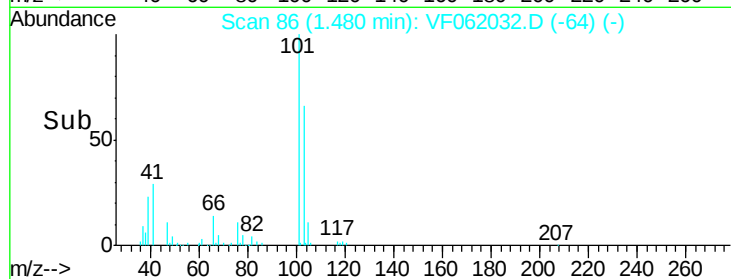
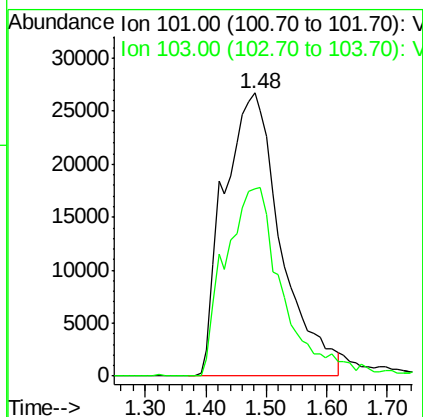
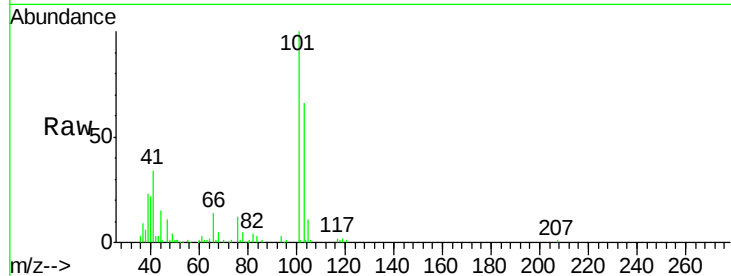
Trichlorofluoromethane
Concen: 45.058 ug/l
RT: 1.48 min Scan# 86
Delta R.T. 0.01 min
Lab File: VF062032.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.3	47.3	70.9

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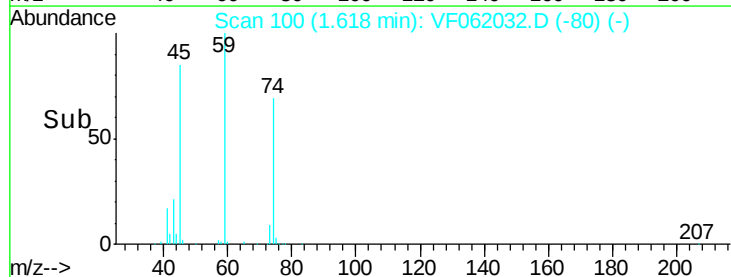
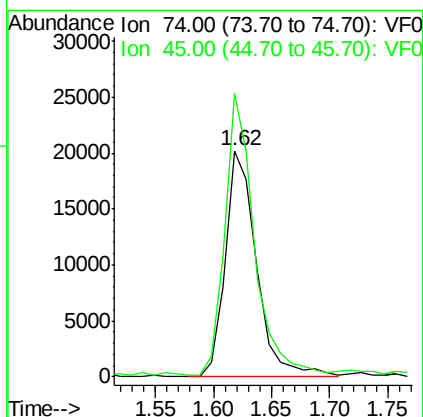
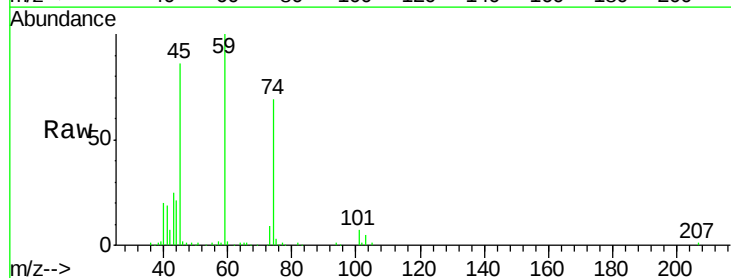
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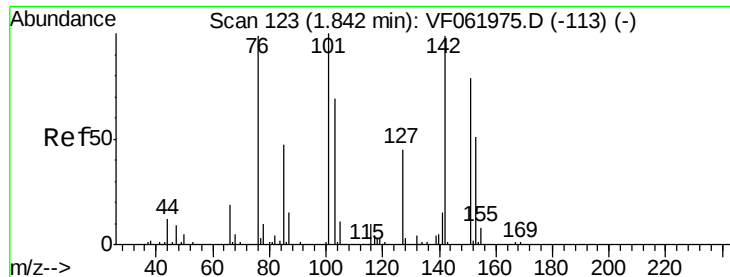


#8

Diethyl Ether
Concen: 43.514 ug/l
RT: 1.62 min Scan# 100
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.1	56.3	168.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.097 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.03 min

Lab File: VF062032.D

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MSVOA_F

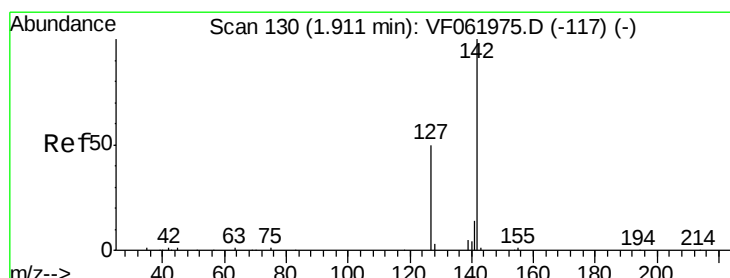
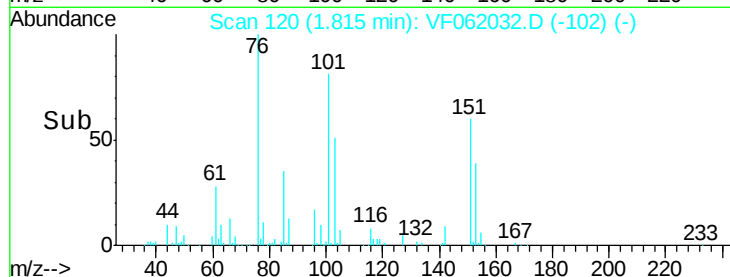
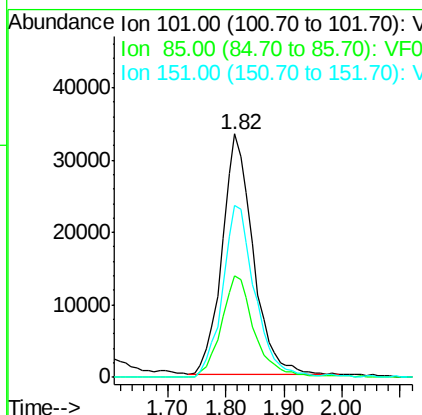
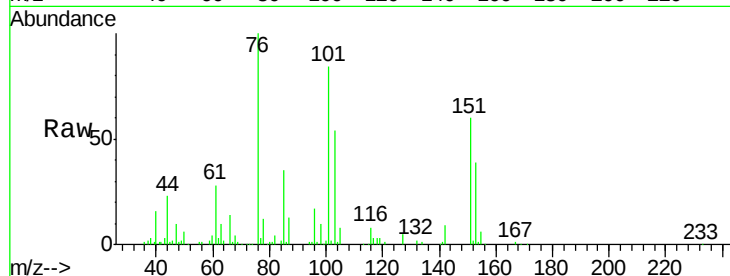
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	123374
Ion Ratio	Lower	Upper	
101	100		
85	41.8	36.8	55.2
151	70.8	62.2	93.2

Manual Integrations
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#10

Methyl Iodide

Concen: 46.085 ug/l m

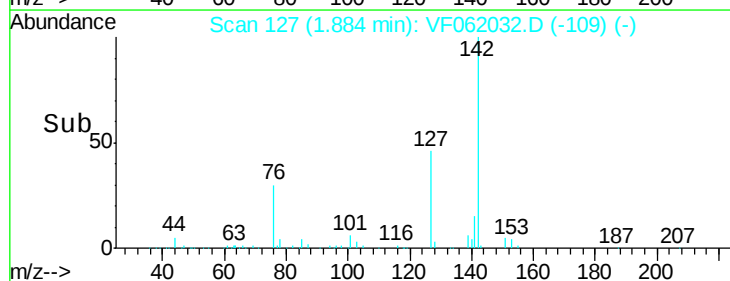
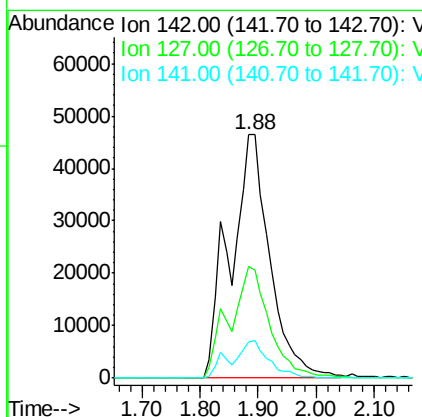
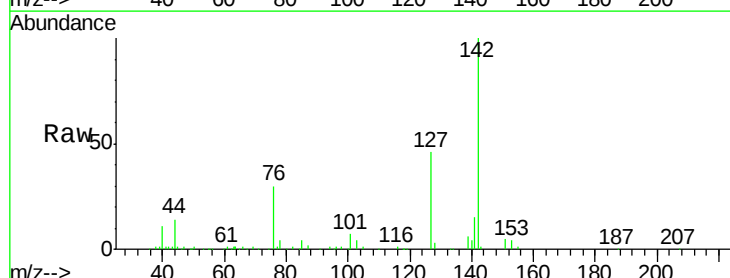
RT: 1.88 min Scan# 127

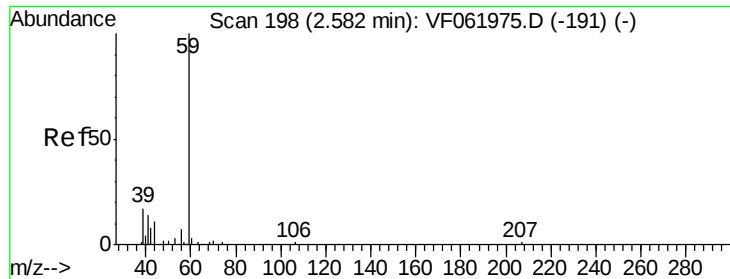
Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	142	Resp:	220720
Ion Ratio	Lower	Upper	
142	100		
127	45.9	39.7	59.5
141	15.1	10.8	16.2





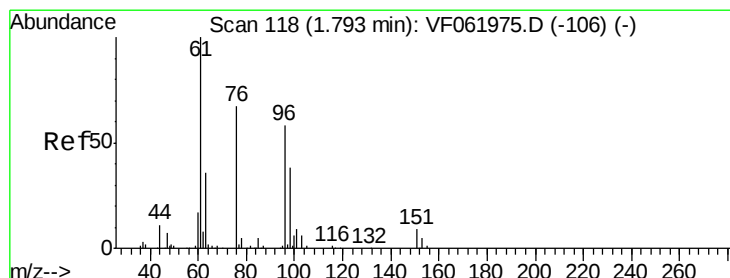
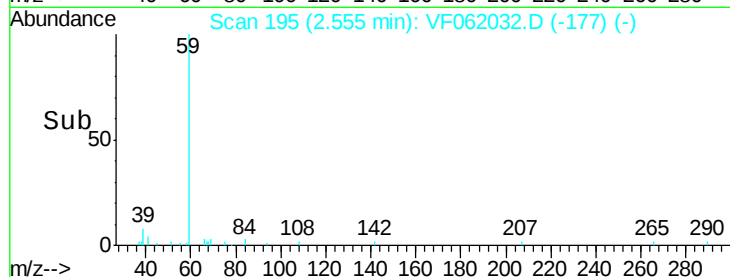
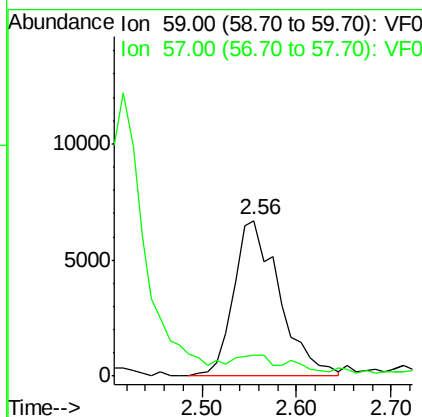
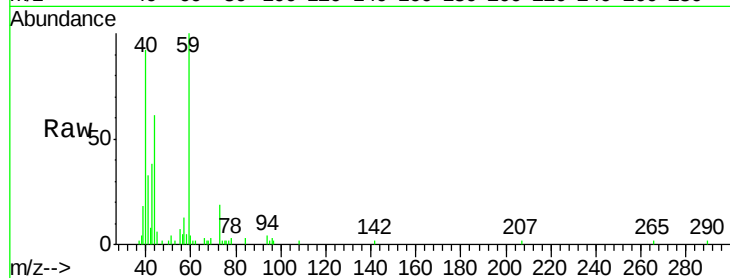
#11
Tert butyl alcohol
Concen: 182.931 ug/l
RT: 2.56 min Scan# 195
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 22540
Ion Ratio Lower Upper
59 100
57 13.5 8.7 13.1#

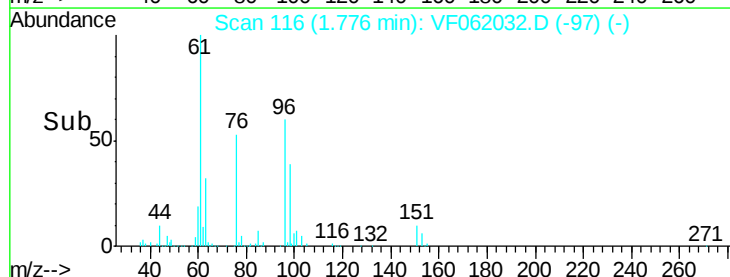
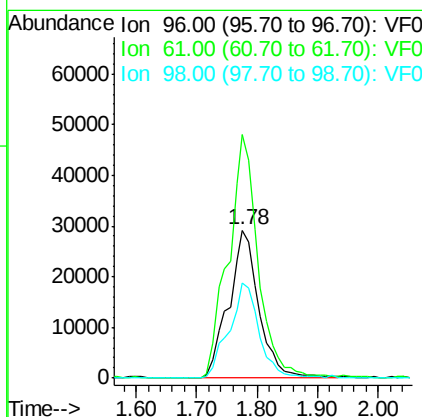
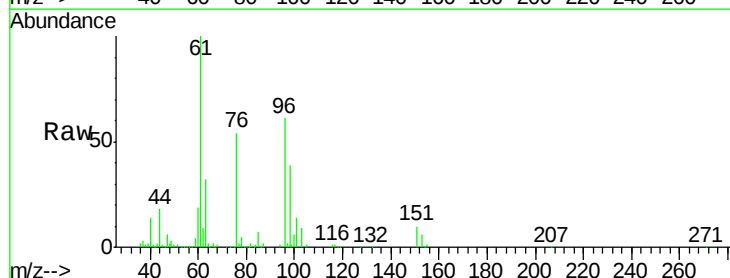
Manual Integrations
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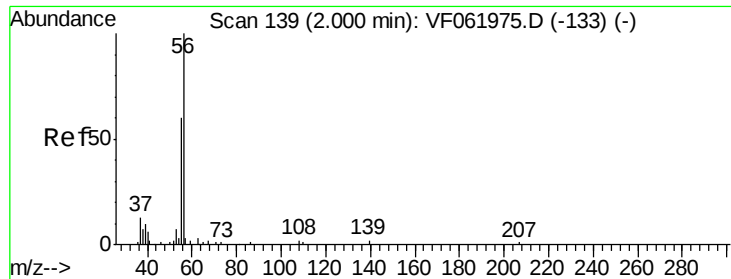
MMDadoda
3/22/2019 4:51:23 PM



#12
1,1-Dichloroethene
Concen: 43.152 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion: 96 Resp: 101879
Ion Ratio Lower Upper
96 100
61 165.0 138.6 208.0
98 64.5 53.2 79.8





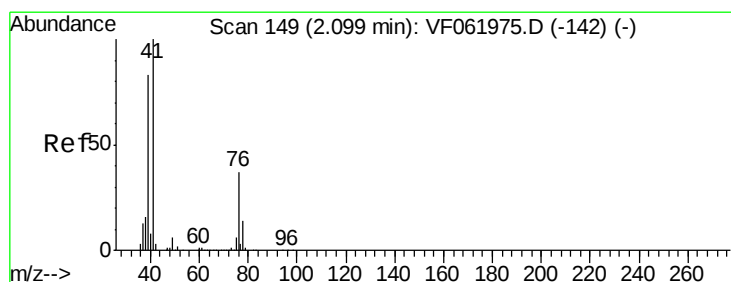
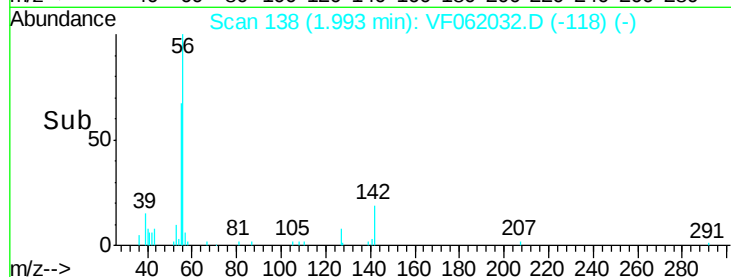
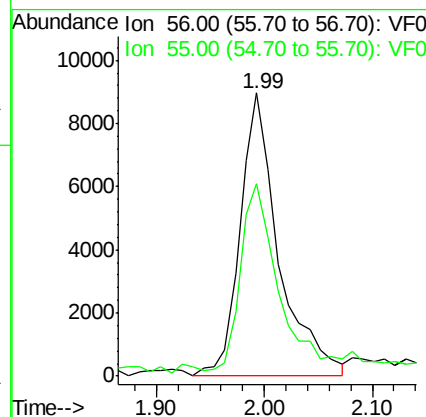
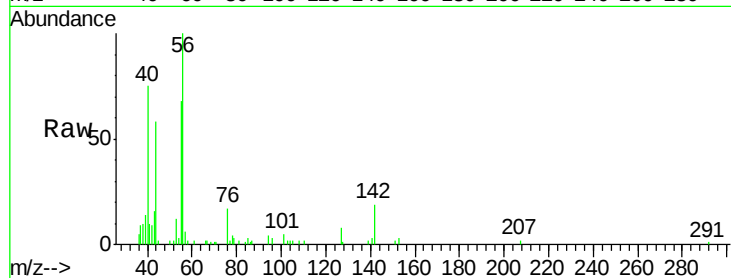
#13
Acrolein
Concen: 167.447 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	68.0	49.1	73.7

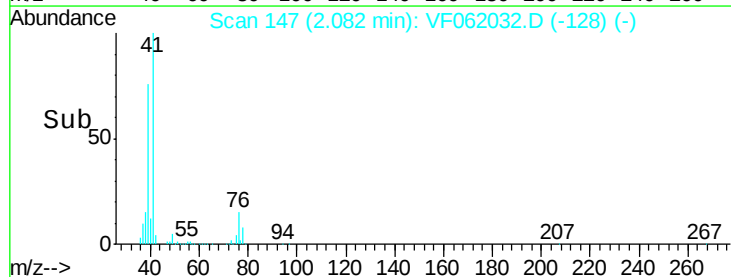
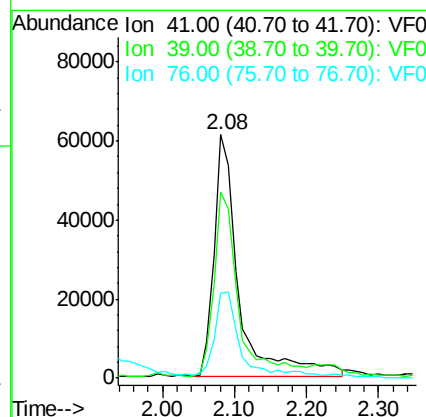
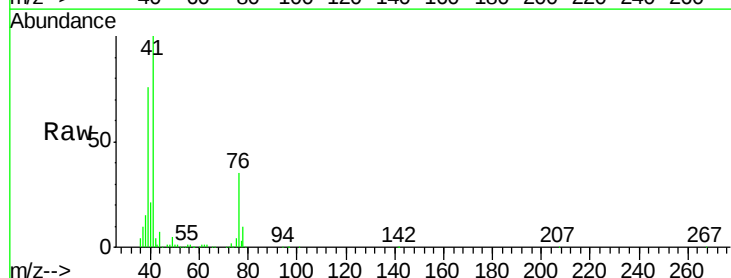
Manual Integrations
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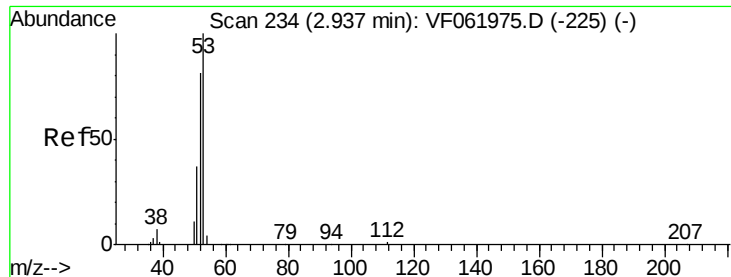
MMDadoda
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#14
Allyl chloride
Concen: 48.956 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
41	100		
39	76.5	66.8	100.2
76	34.7	31.1	46.7





#15

Acrylonitrile

Concen: 211.683 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

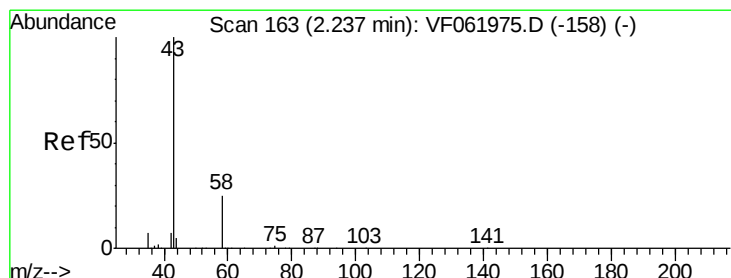
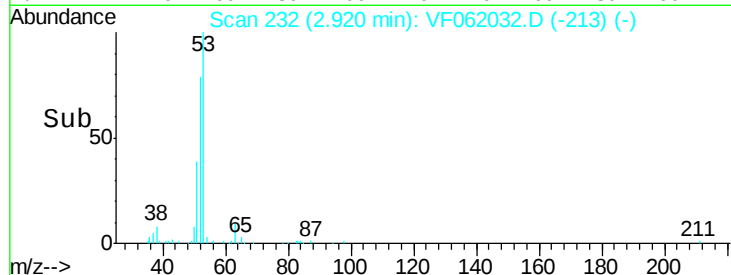
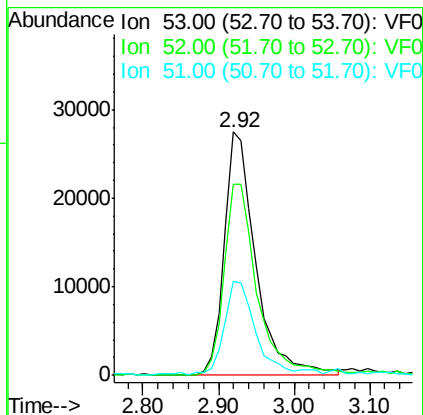
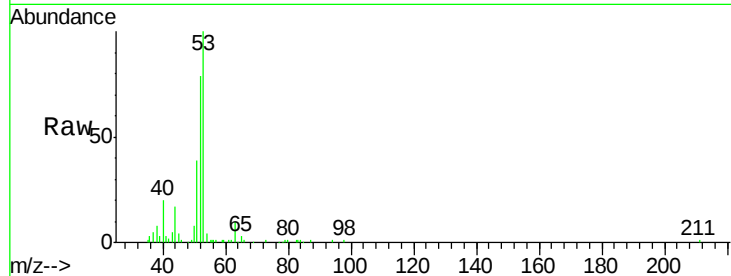
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	79316
Ion	Ratio	Lower	Upper
53	100		
52	78.8	64.4	96.6
51	38.6	30.3	45.5

Manual Integrations
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#16

Acetone

Concen: 288.258 ug/l

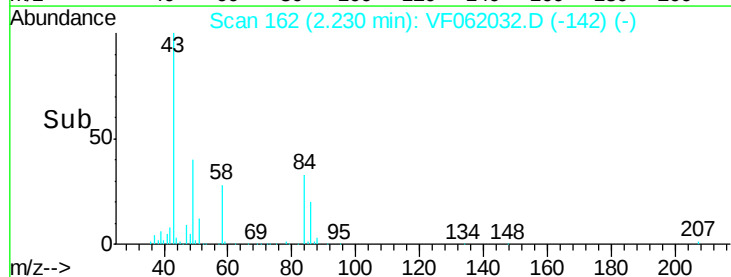
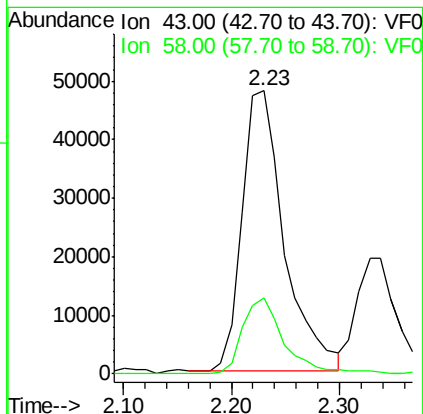
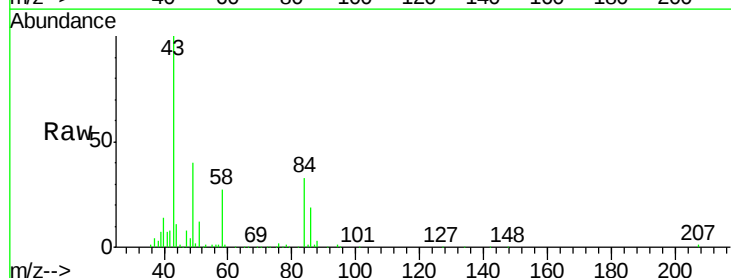
RT: 2.23 min Scan# 162

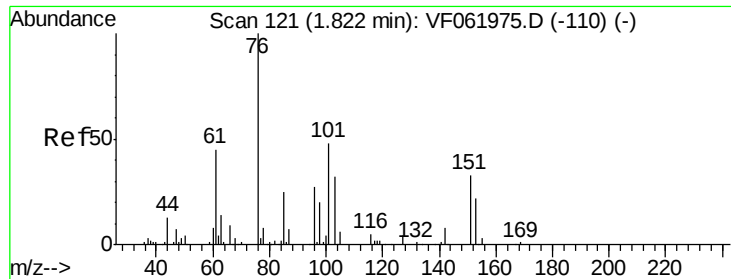
Delta R.T. -0.01 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	43	Resp:	130341
Ion	Ratio	Lower	Upper
43	100		
58	27.0	19.9	29.9





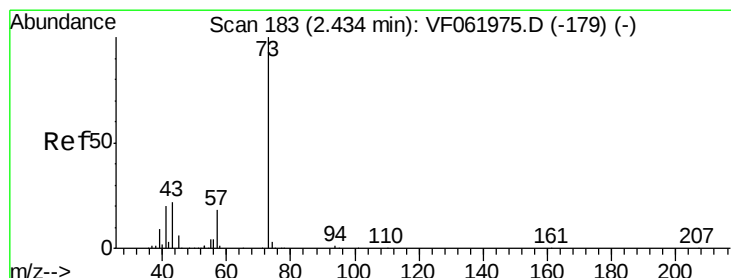
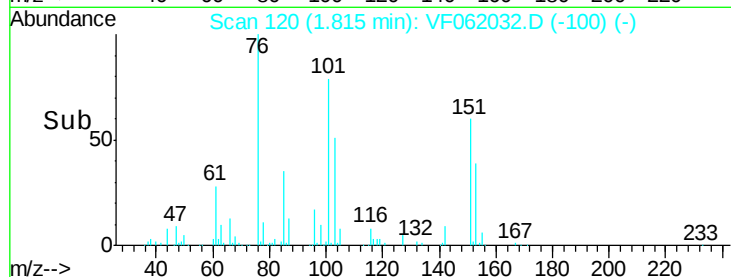
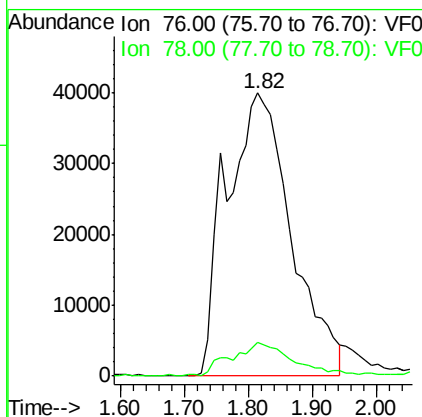
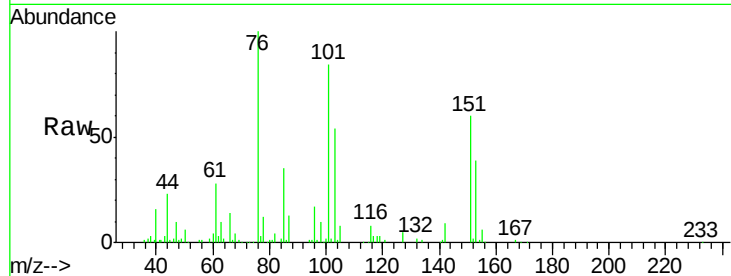
#17
Carbon Disulfide
Concen: 41.477 ug/l m
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 283068
Ion Ratio Lower Upper
76 100
78 11.7 6.8 10.2#

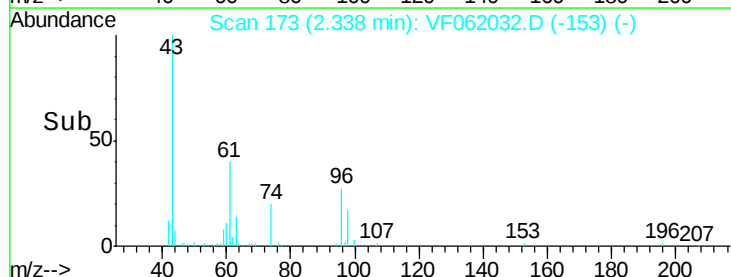
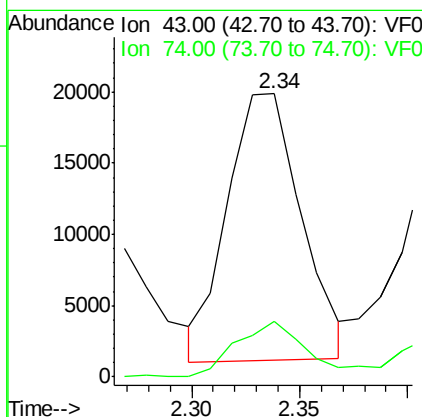
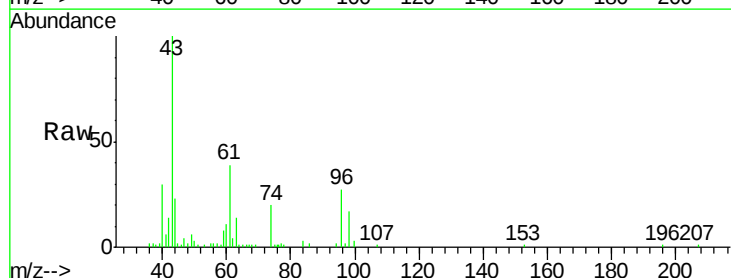
Manual Integrations
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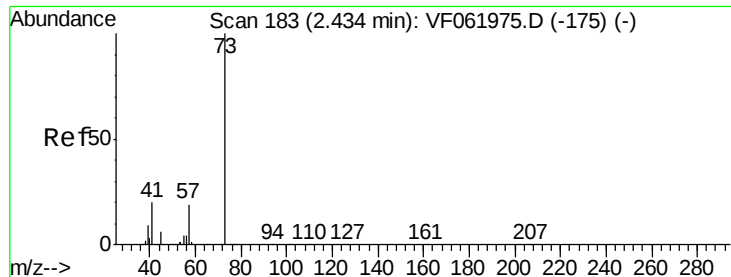
MMDadoda
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#18
Methyl Acetate
Concen: 43.556 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion: 43 Resp: 44631
Ion Ratio Lower Upper
43 100
74 19.8 18.3 27.5





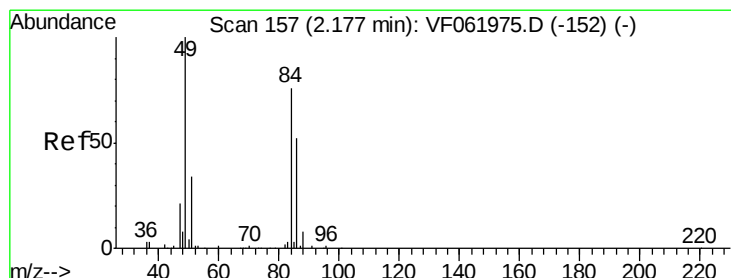
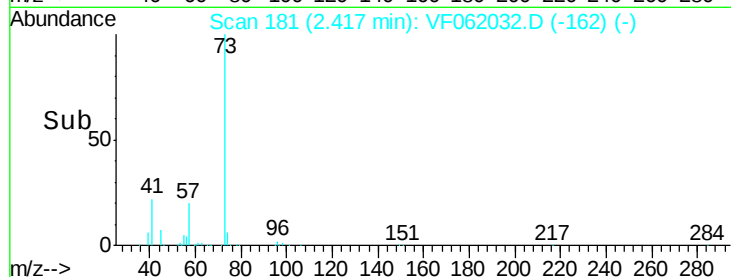
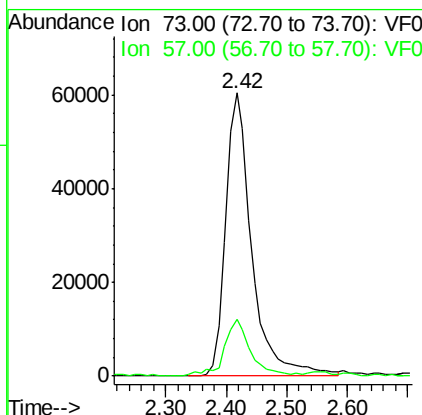
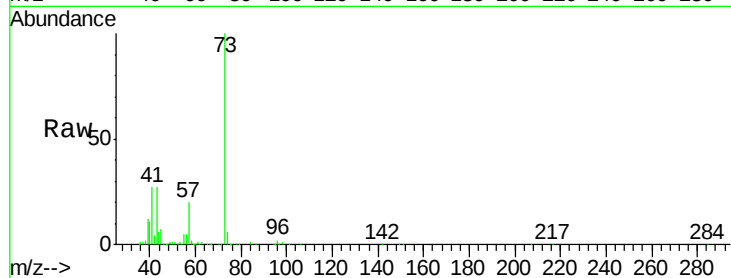
#19
Methvl tert-butvl Ether
Concen: 42.278 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
73	73	100		
57	57	20.2	15.3	22.9

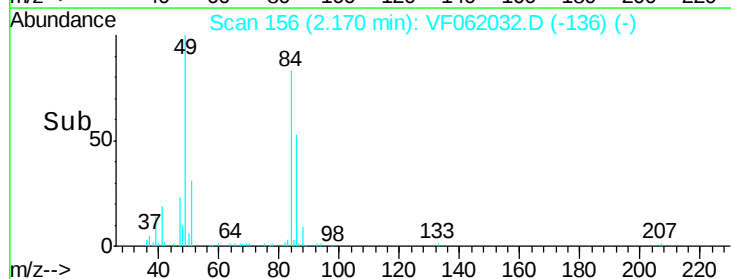
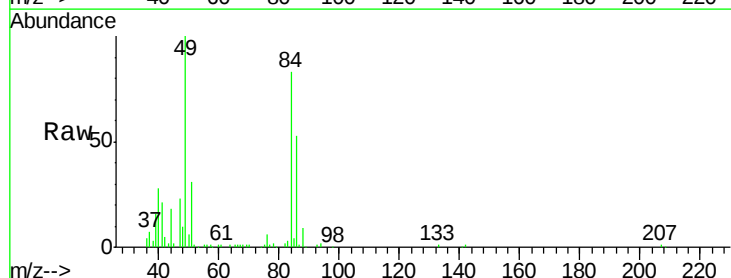
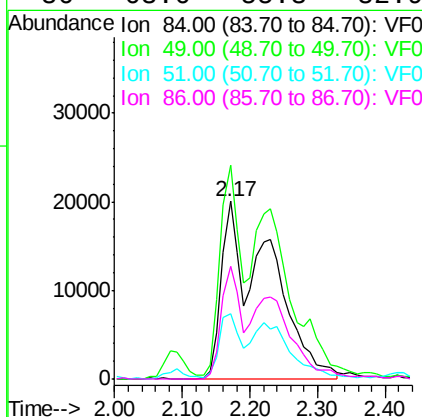
Manual Integrations
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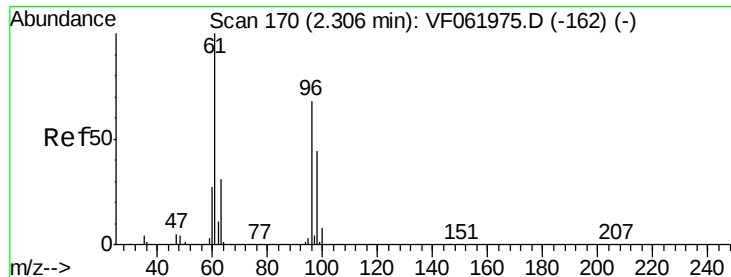
MMDadoda
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#20
Methylene Chloride
Concen: 41.576 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ion	Ratio	Lower	Upper
84	84	100		
49	49	120.2	107.0	160.6
51	51	36.9	37.2	55.8#
86	86	63.6	55.3	82.9





#21

trans-1,2-Dichloroethene

Concen: 43.831 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

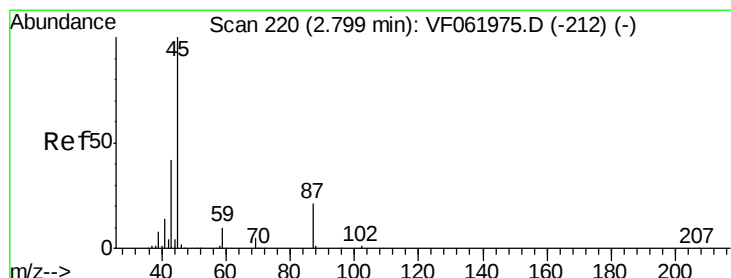
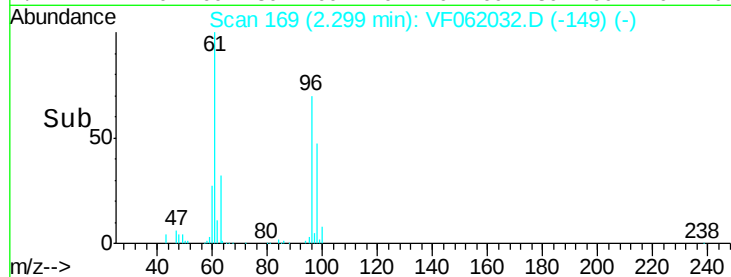
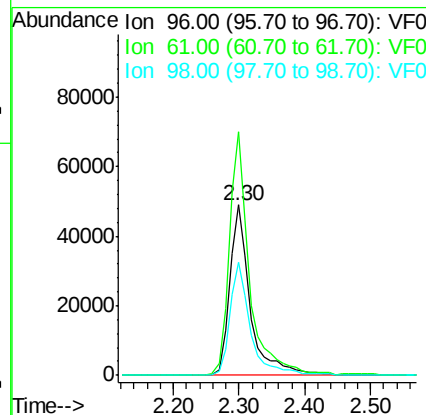
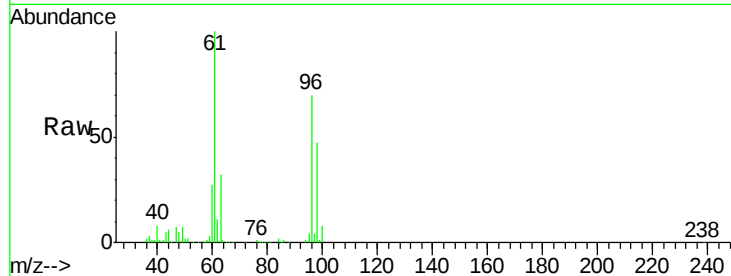
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	107992
Ion	Ratio	Lower	Upper
96	100		
61	143.1	117.4	176.2
98	66.8	51.2	76.8

Manual Integrations
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3/22/2019 4:51:23 PM



#22

Diisopropyl ether

Concen: 41.411 ug/l

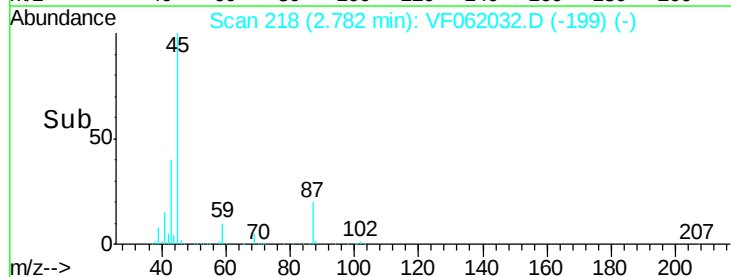
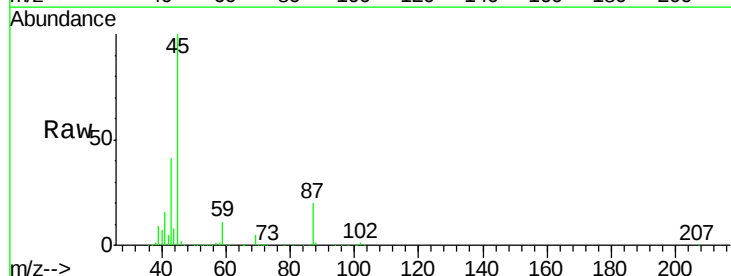
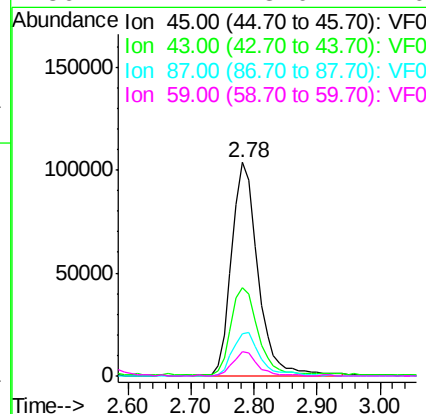
RT: 2.78 min Scan# 218

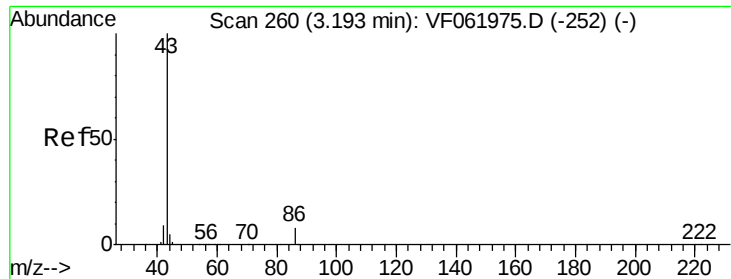
Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	45	Resp:	300193
Ion	Ratio	Lower	Upper
45	100		
43	41.2	33.7	50.5
87	20.1	17.1	25.7
59	11.4	8.0	12.0





#23

Vinyl Acetate

Concen: 218.799 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 625252

Ion Ratio Lower Upper

43 100

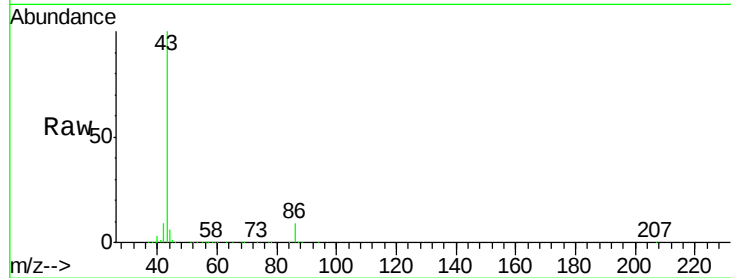
86 9.1 6.5 9.7

Manual Integrations

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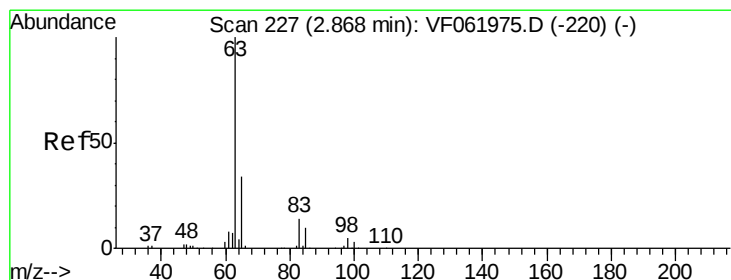
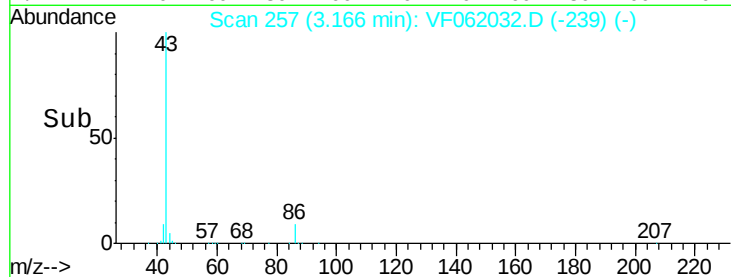
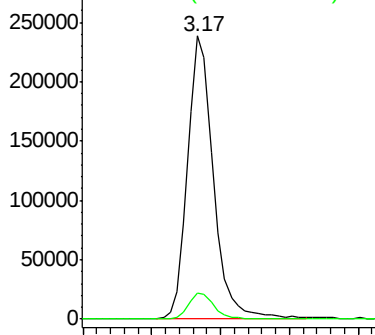
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 43.028 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

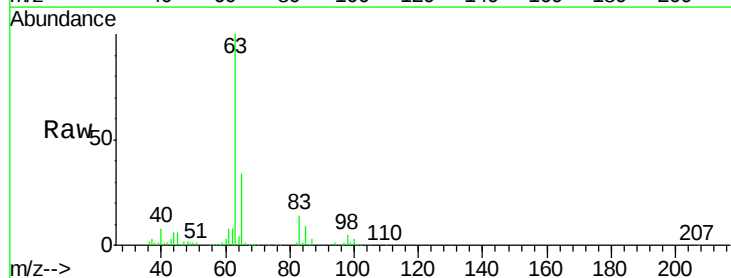
Tgt Ion: 63 Resp: 181363

Ion Ratio Lower Upper

63 100

98 5.2 2.7 8.1

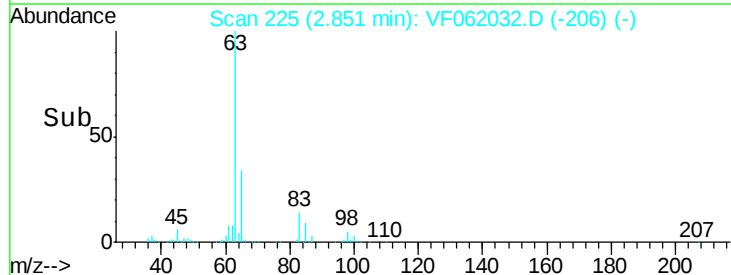
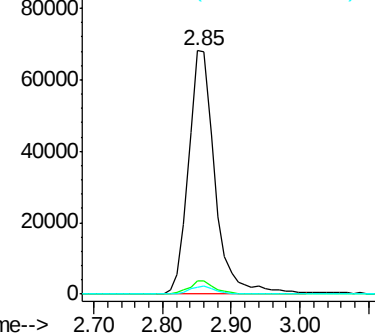
100 2.6 1.7 5.0

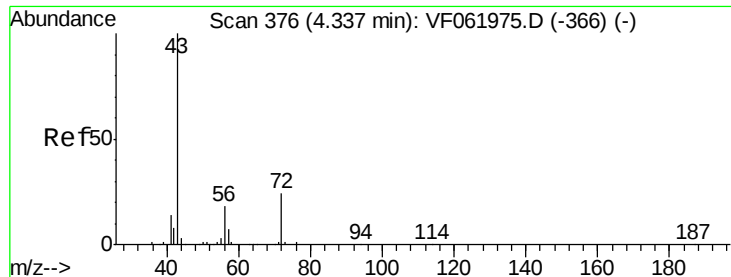


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 211.506 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 189405

Ion Ratio Lower Upper

43 100

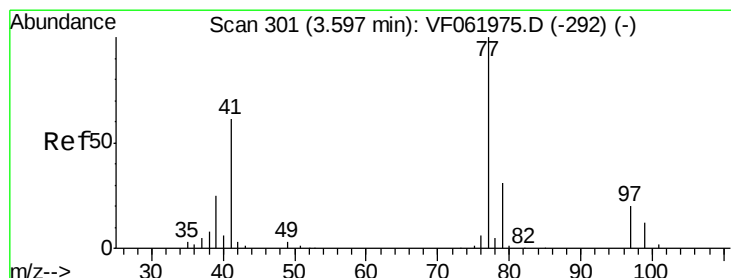
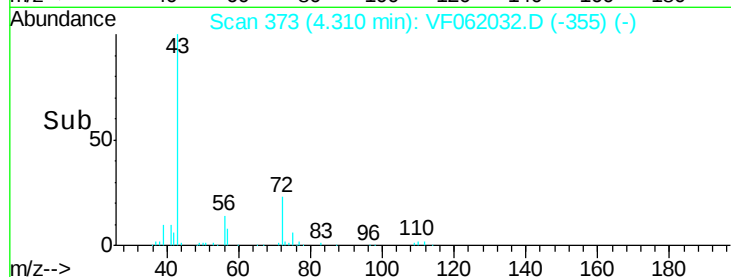
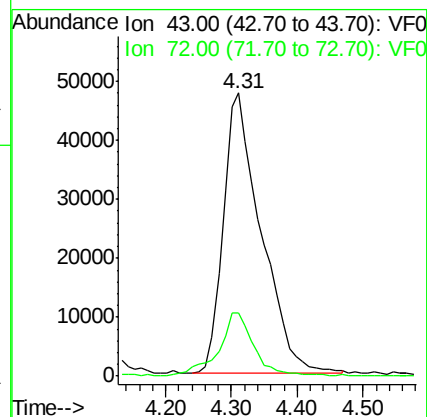
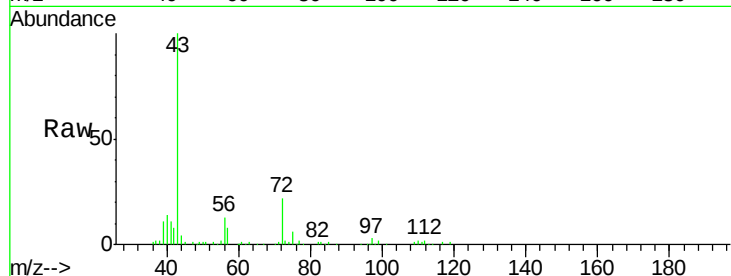
72 22.4 19.8 29.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 44.847 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.03 min

Lab File: VF062032.D

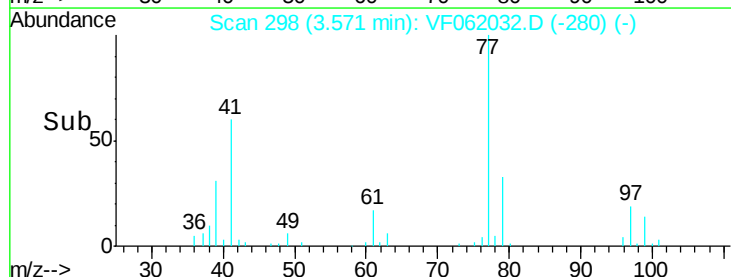
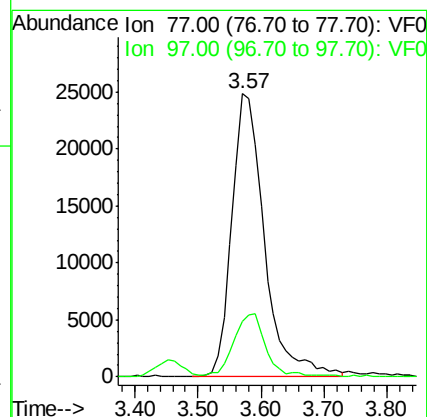
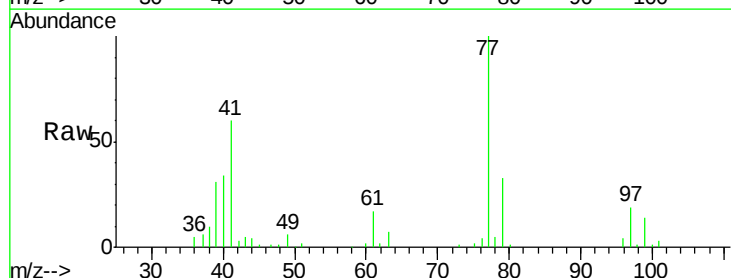
Acq: 20 Mar 2019 10:28

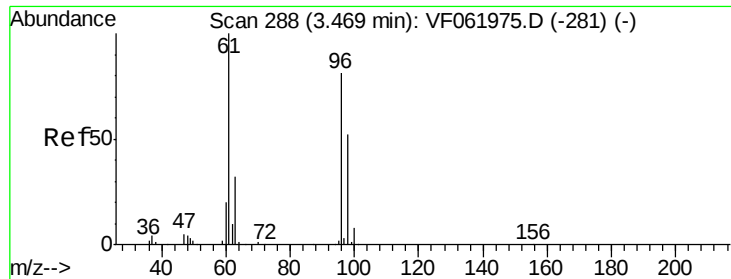
Tgt Ion: 77 Resp: 89164

Ion Ratio Lower Upper

77 100

97 19.5 10.8 32.4





#27

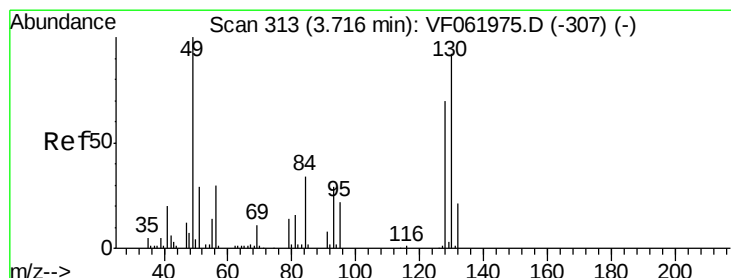
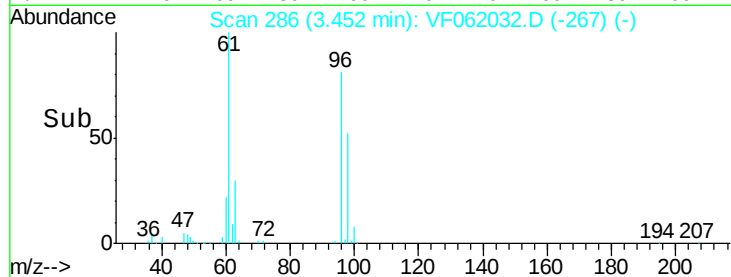
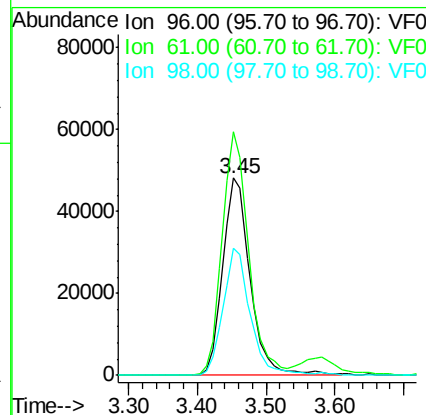
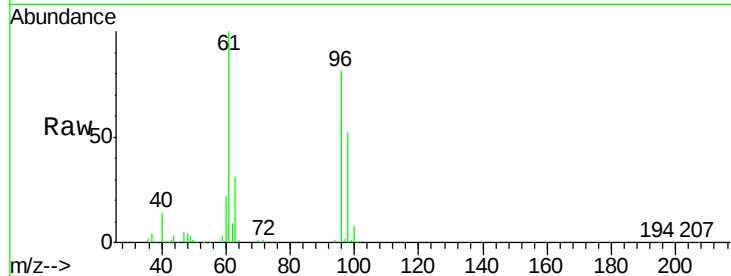
cis-1,2-Dichloroethene
Concen: 43.085 ug/l
RT: 3.45 min Scan# 286
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	133795		
61	123.4		0.0	246.6
98	64.5		0.0	129.2

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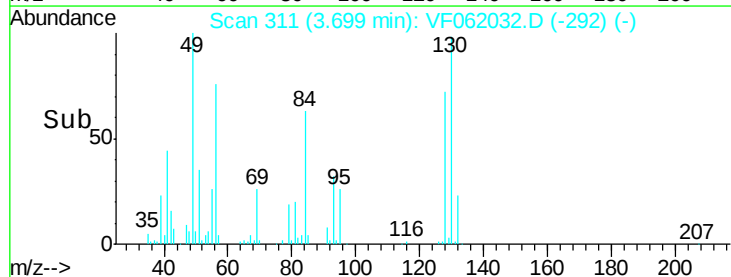
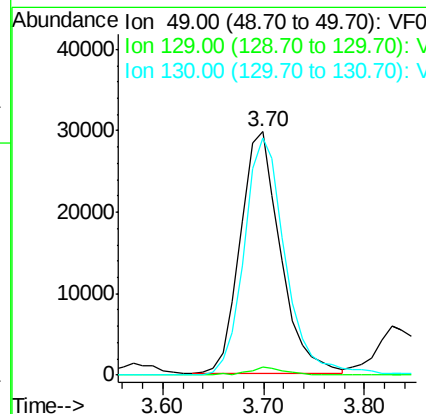
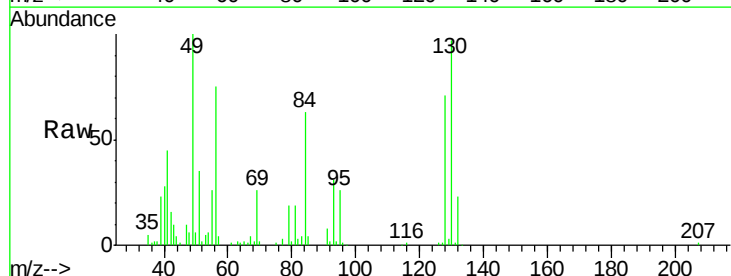
MMDadoda
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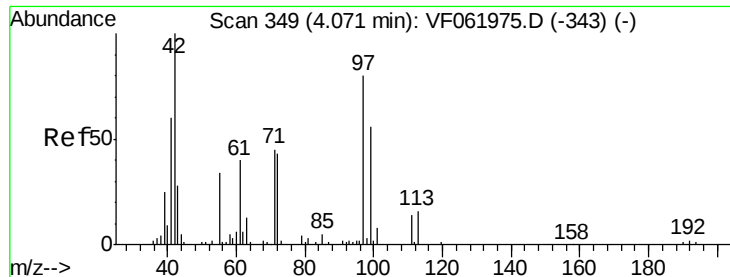


#28

Bromochloromethane
Concen: 47.141 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	82448		
129	3.3		0.0	5.8
130	97.4		73.1	109.7





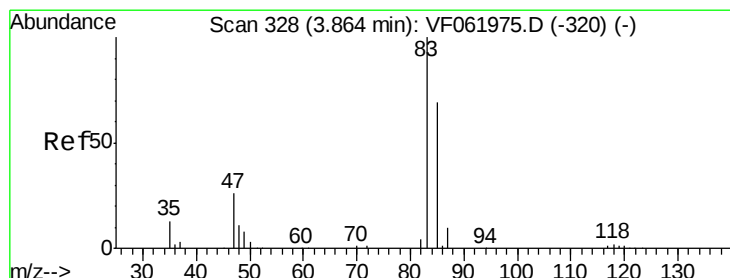
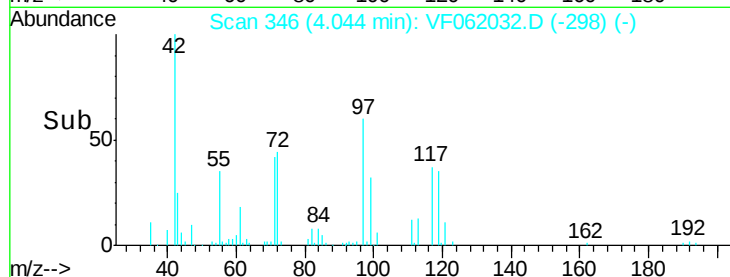
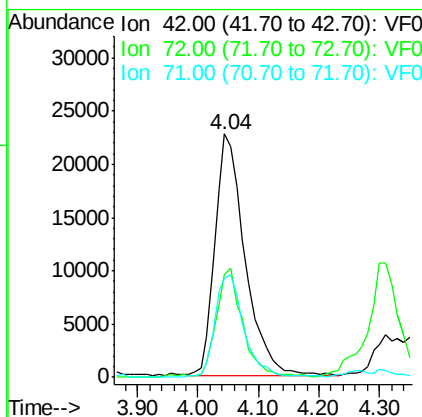
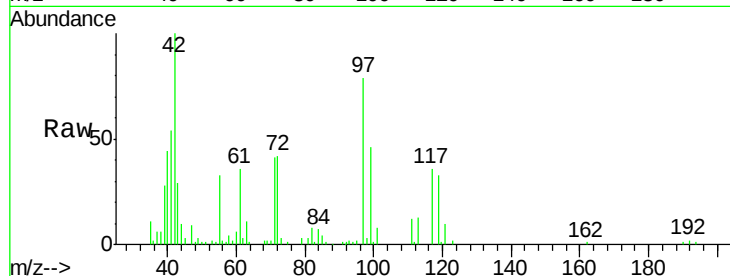
#29
Tetrahydrofuran
Concen: 203.220 ug/l
RT: 4.04 min Scan# 346
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	34.0	51.0
71	40.1	34.2	51.4

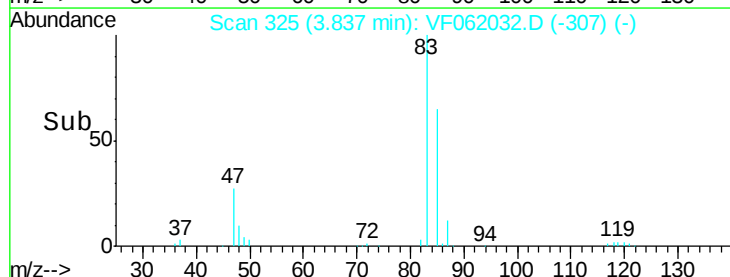
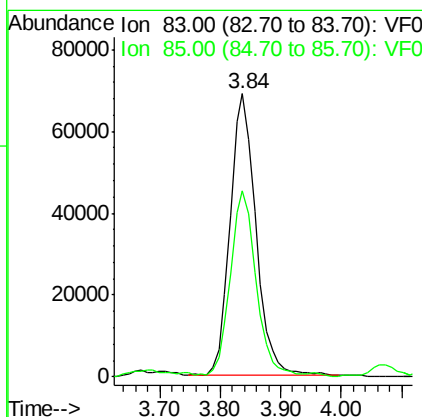
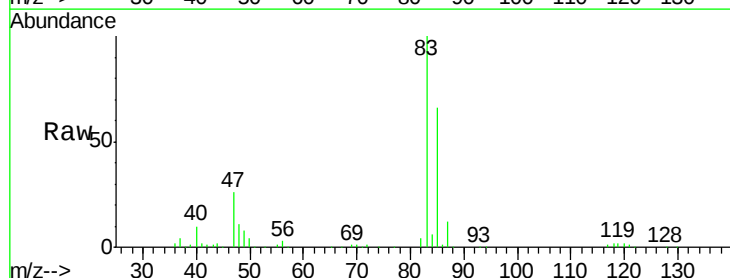
Manual Integrations
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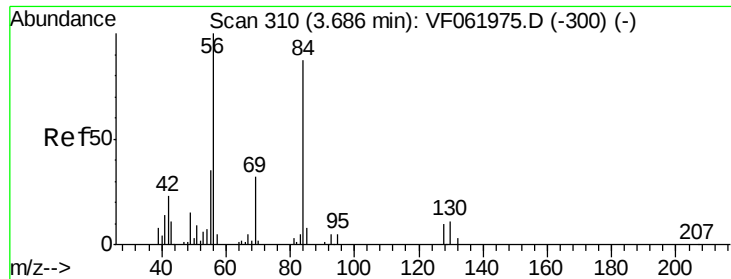
MMDadoda
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#30
Chloroform
Concen: 42.755 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	55.5	83.3





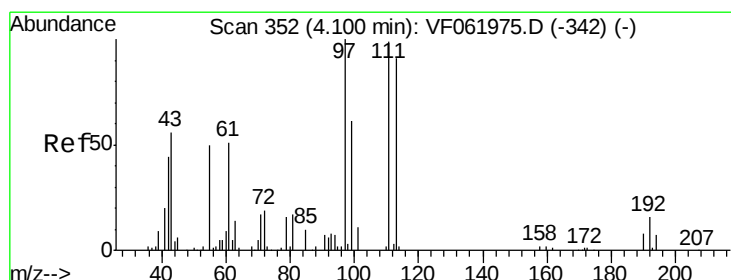
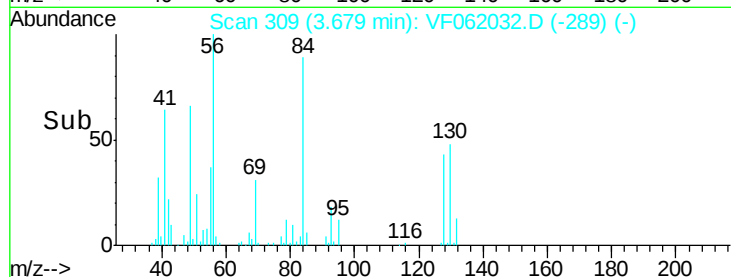
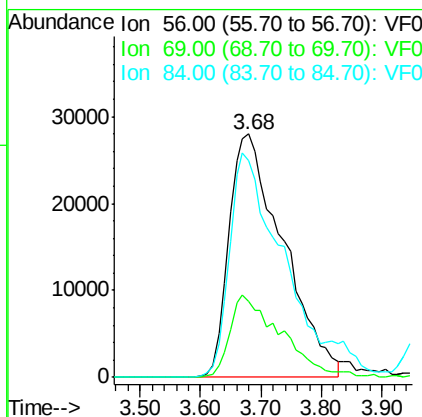
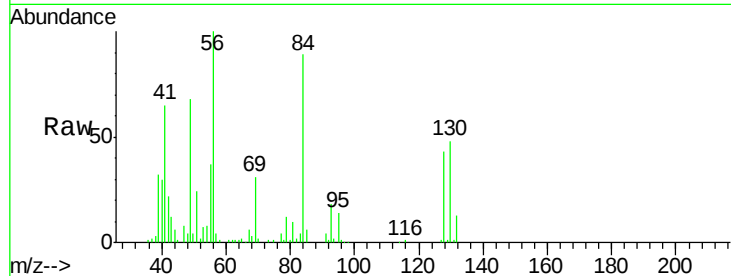
#31
Cyclohexane
Concen: 41.504 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.01 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	25.8	38.8
84	88.9	69.5	104.3

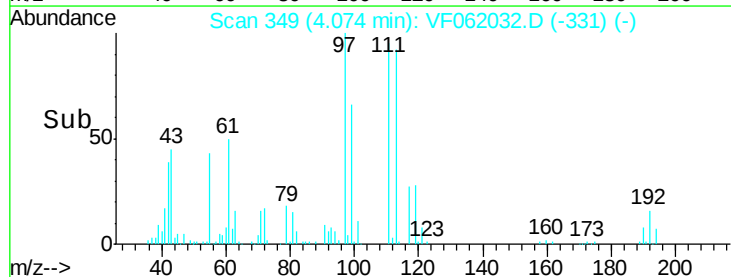
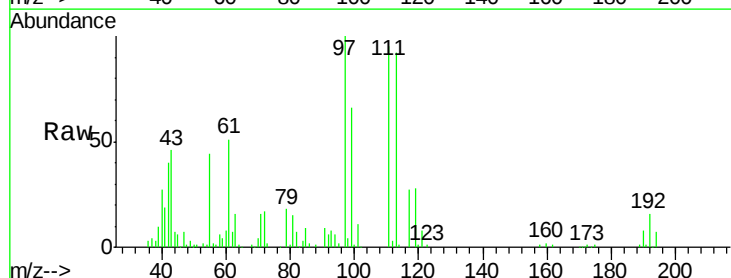
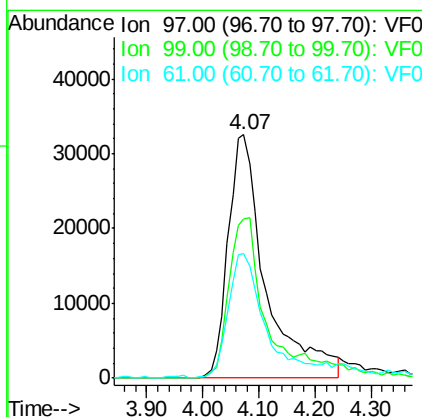
Manual Integrations
APPROVED

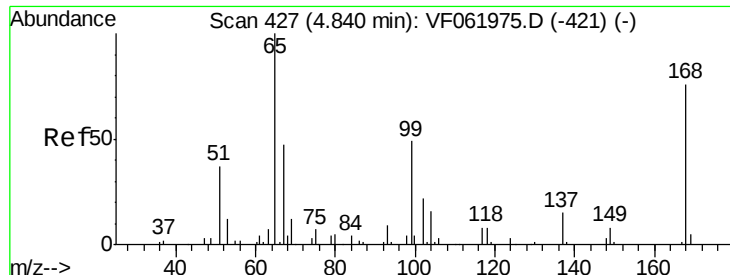
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#32
1,1,1-Trichloroethane
Concen: 48.093 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	49.0	73.4
61	51.0	41.4	62.0





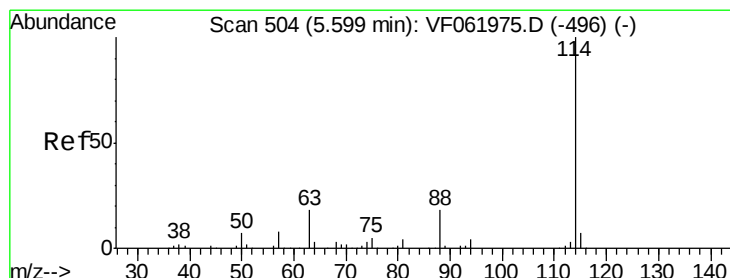
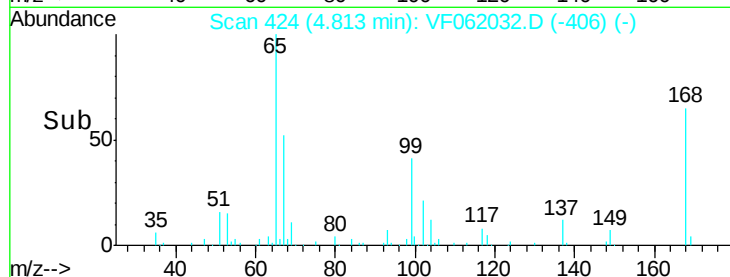
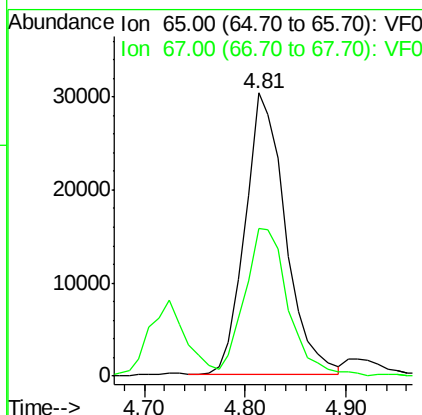
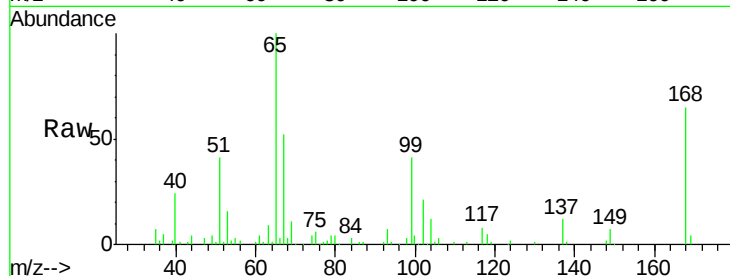
#33
 1,2-Dichloroethane-d4
 Concen: 41.741 ug/l
 RT: 4.81 min Scan# 424
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	84050		
67	52.3	0.0	109.4	

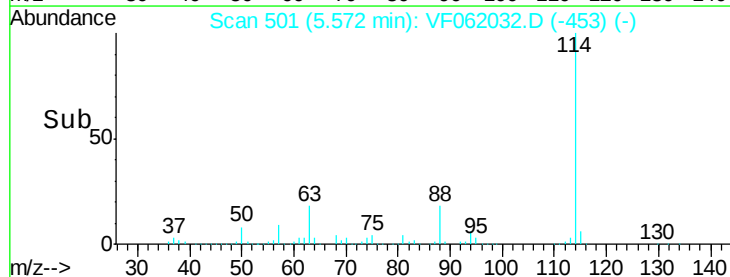
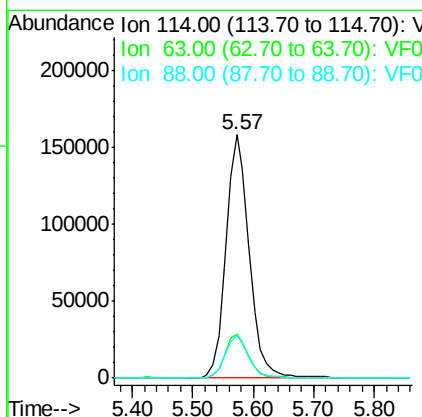
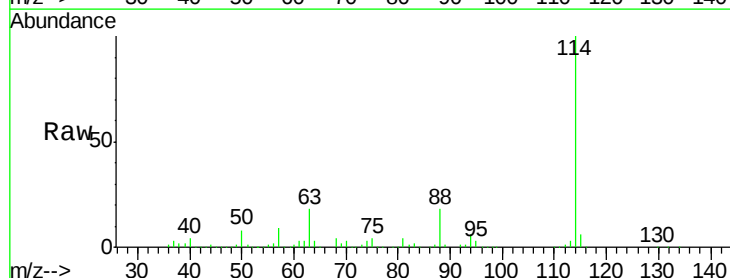
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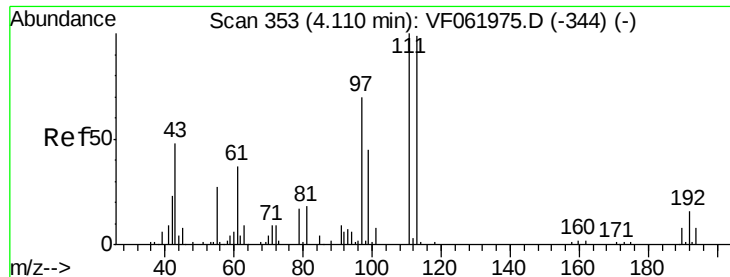
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	420235		
63	18.0	0.0	36.4	
88	17.5	0.0	36.4	





#35

Dibromofluoromethane

Concen: 46.576 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

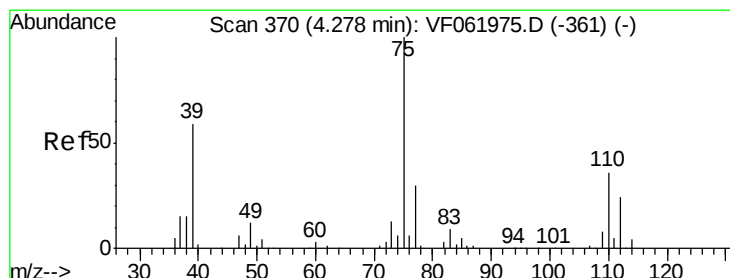
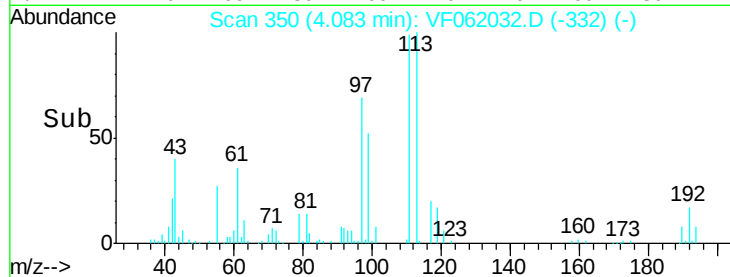
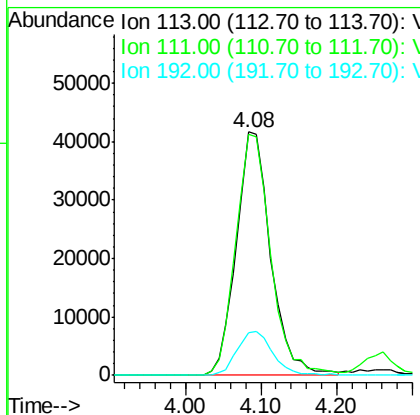
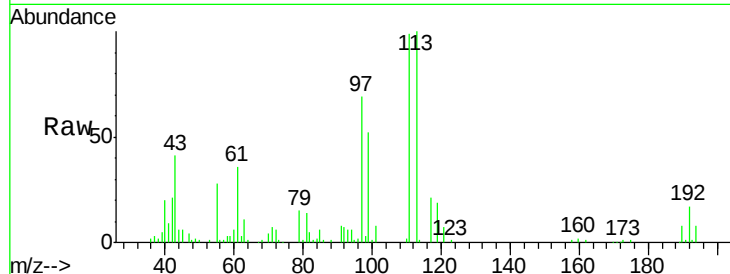
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	131437
Ion Ratio	Lower	Upper	
113	100		
111	99.3	80.8	121.2
192	18.2	13.0	19.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 42.937 ug/l

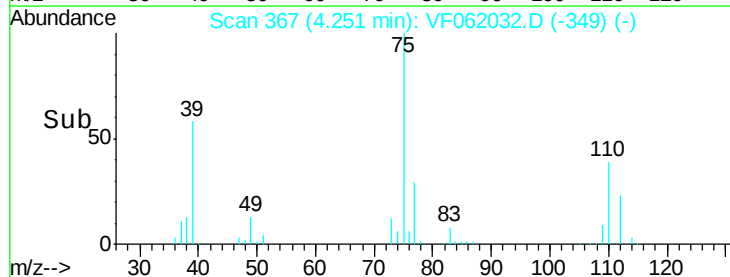
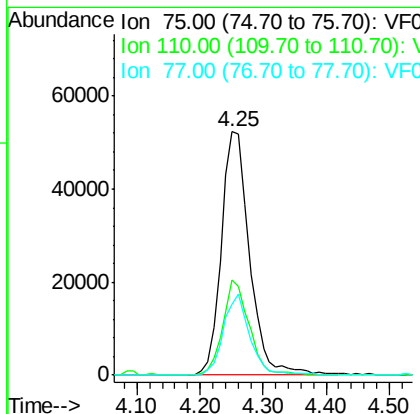
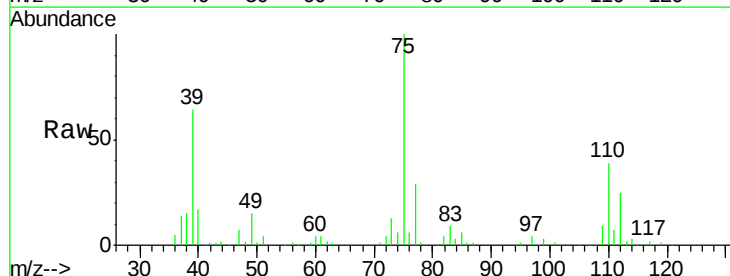
RT: 4.25 min Scan# 367

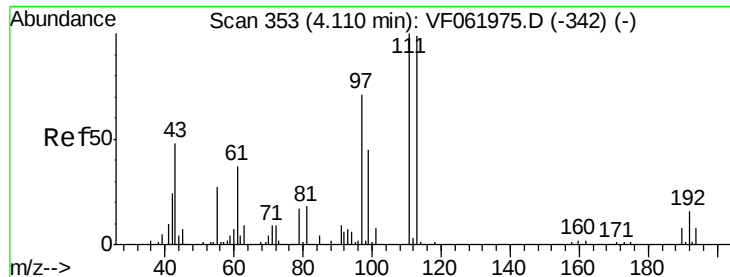
Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	75	Resp:	162943
Ion Ratio	Lower	Upper	
75	100		
110	39.1	17.8	53.3
77	28.9	24.2	36.2





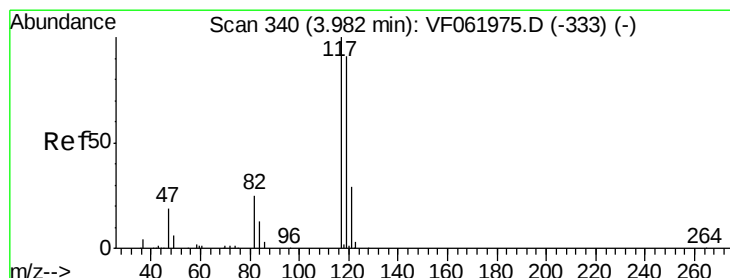
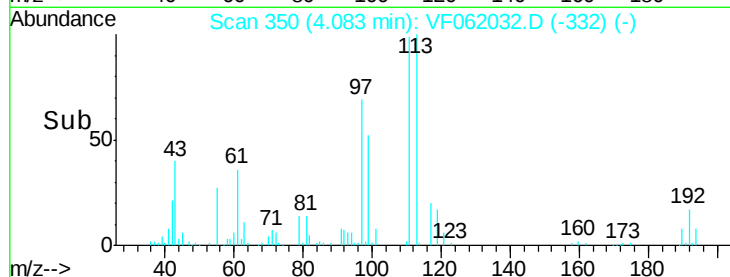
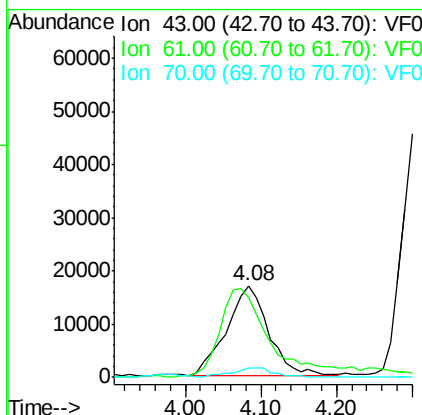
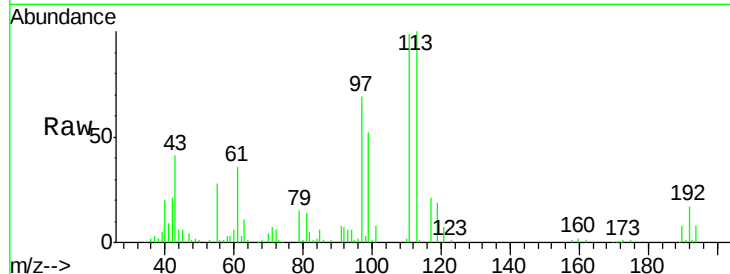
#37
Ethyl Acetate
Concen: 37.767 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	87.0	59.8				89.6
70	10.7	7.8				11.8

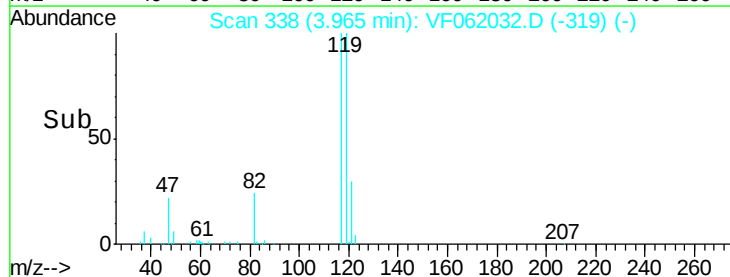
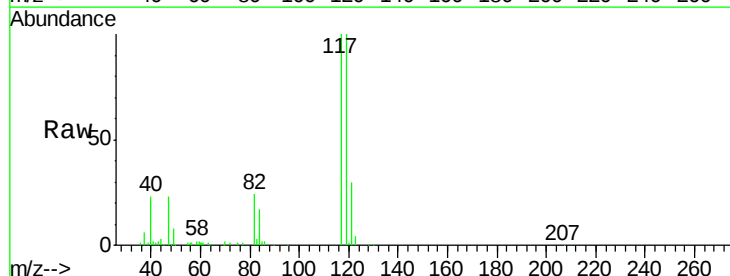
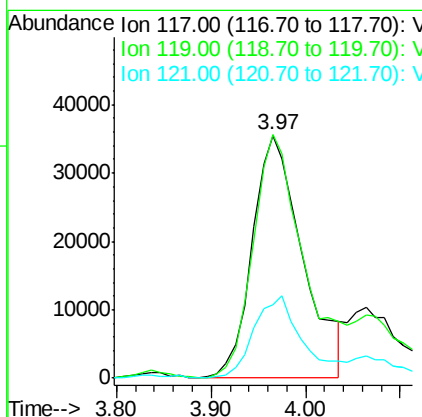
Manual Integrations
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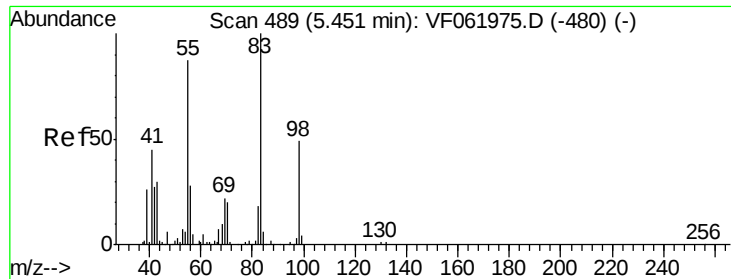
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3/22/2019 4:51:23 PM



#38
Carbon Tetrachloride
Concen: 47.522 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	100.5	73.0				109.4
121	30.3	23.0				34.6





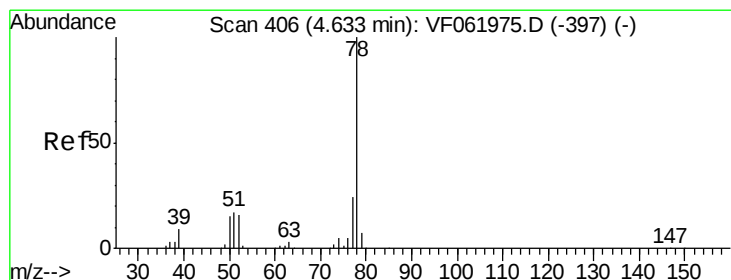
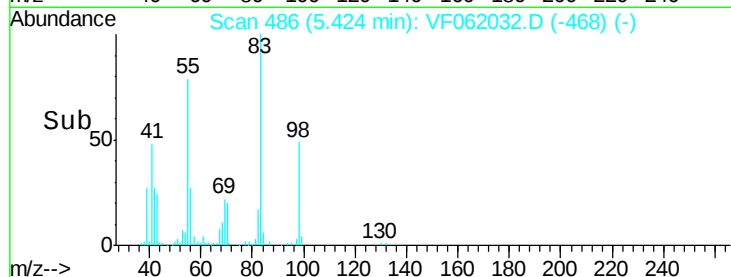
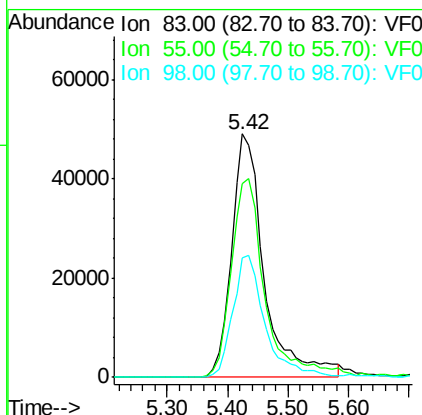
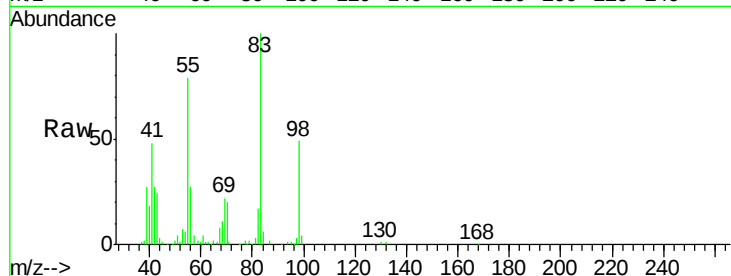
#39
Methvlcvclohexane
Concen: 41.334 ug/l
RT: 5.42 min Scan# 486
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.5	69.7	104.5
98	49.2	39.4	59.0

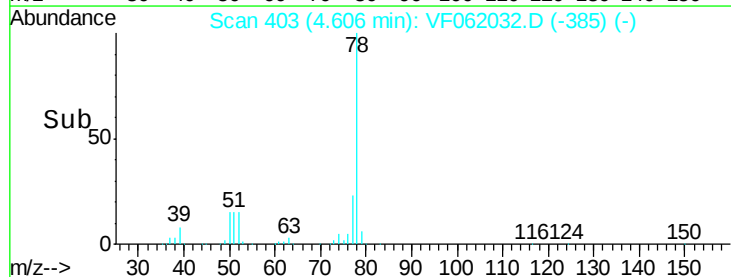
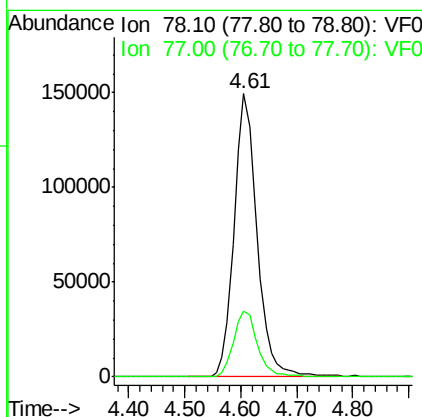
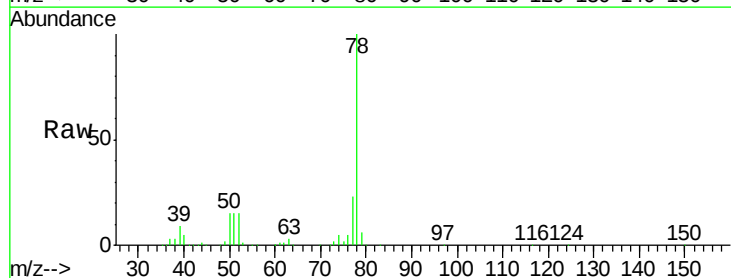
Manual Integrations
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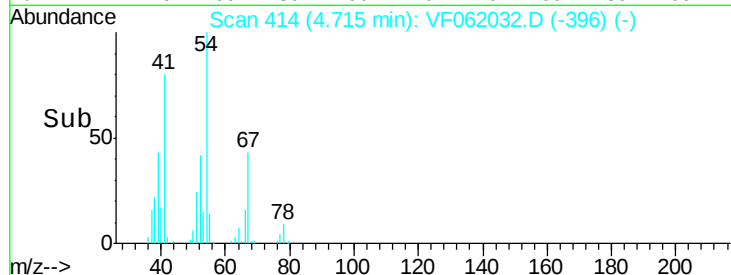
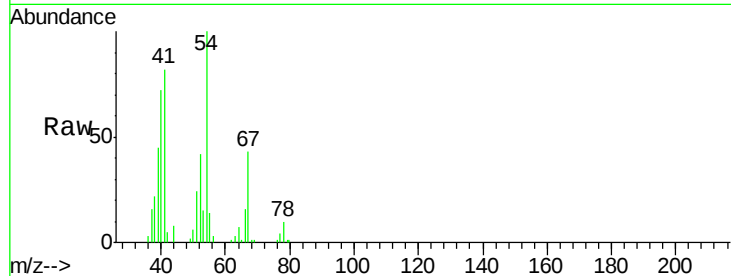
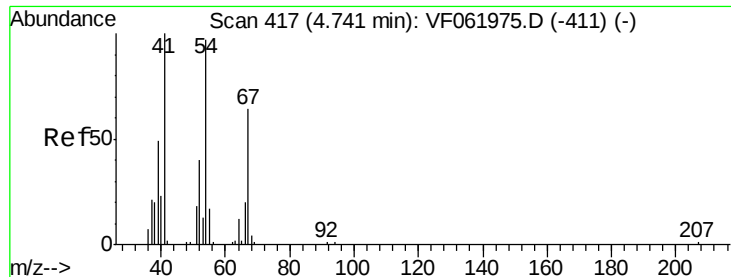
MMDadoda
3/22/2019 4:51:23 PM



#40
Benzene
Concen: 42.428 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





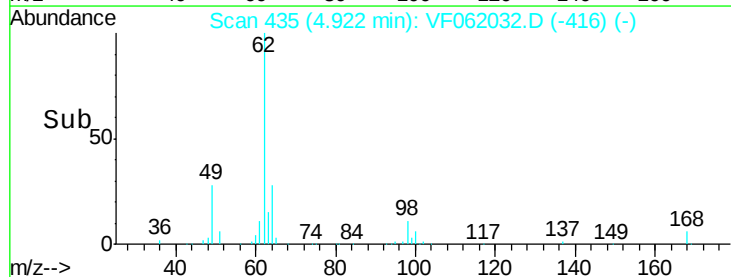
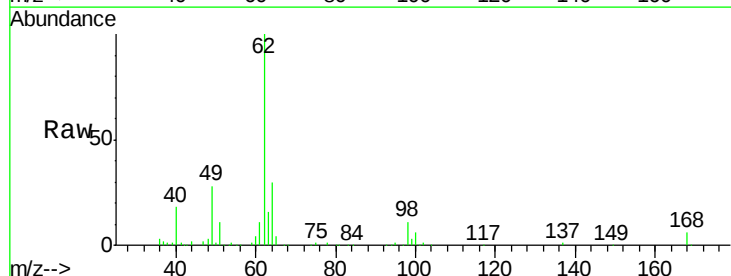
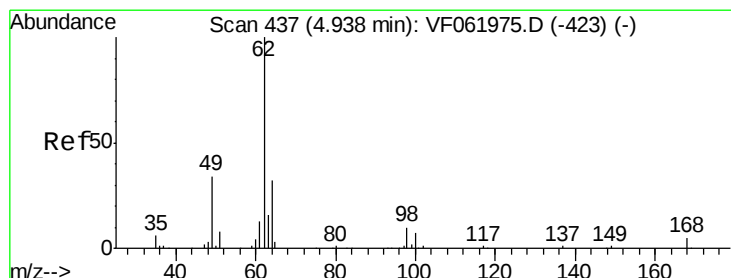
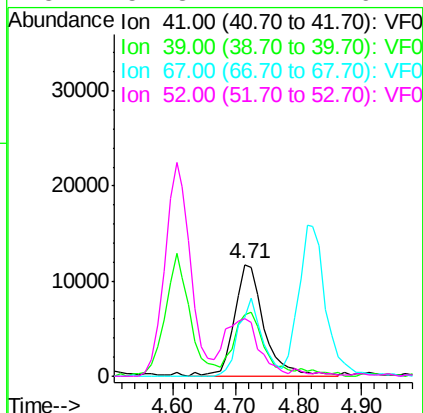
#41
Methacrylonitrile
Concen: 41.888 ug/l
RT: 4.71 min Scan# 414
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	41	100	38134		
39	39	55.4		46.2	69.4
67	67	53.0		49.8	74.8
52	52	51.3		42.7	64.1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

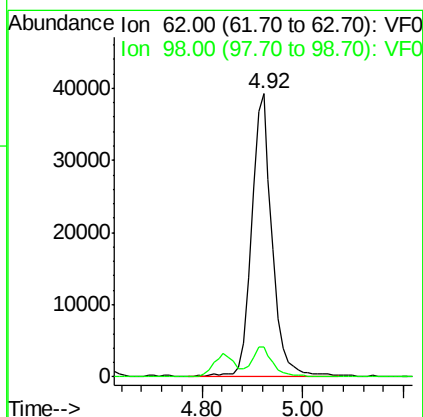
Manual Integrations
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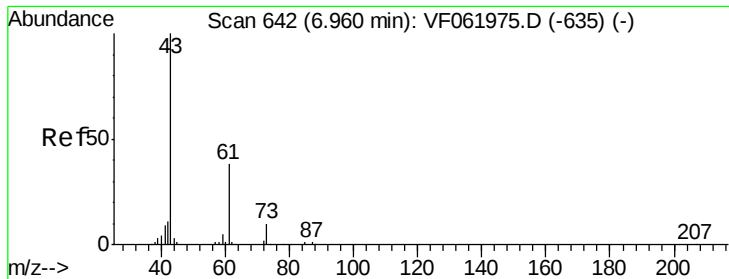
MMDadoda
3/22/2019 4:51:23 PM



#42
1,2-Dichloroethane
Concen: 44.729 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	62	100	111966		
98	98	10.6		0.0	19.8





#43

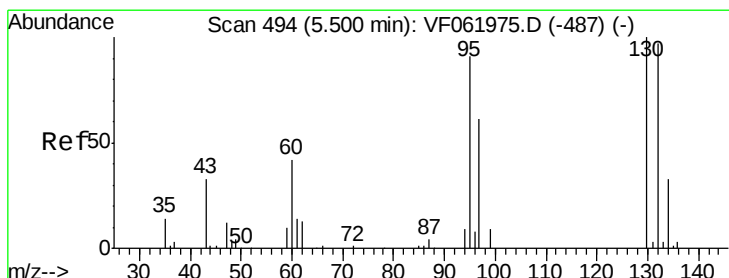
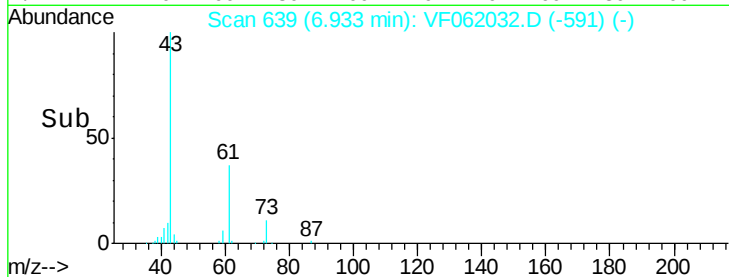
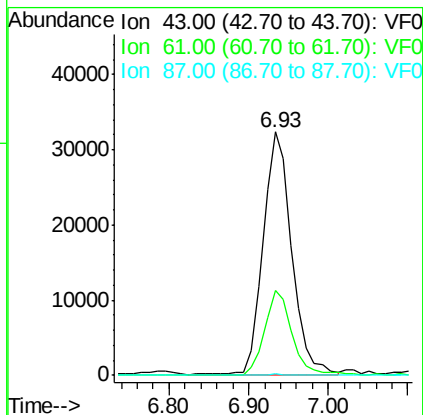
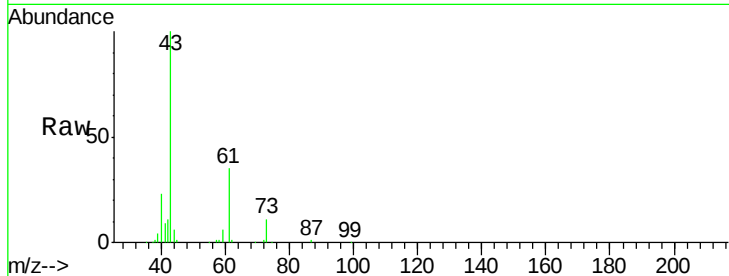
Isopropyl Acetate
 Concen: 40.099 ug/l
 RT: 6.93 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.0	30.1	45.1
87	0.6	0.4	0.6

Manual Integrations
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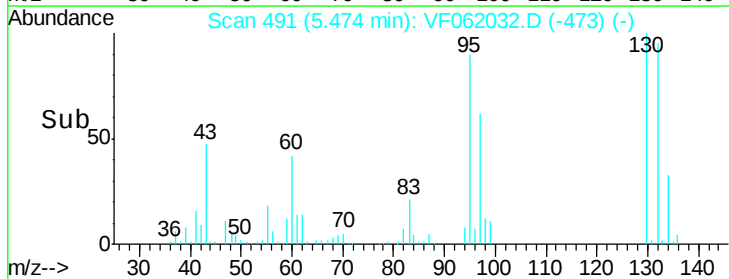
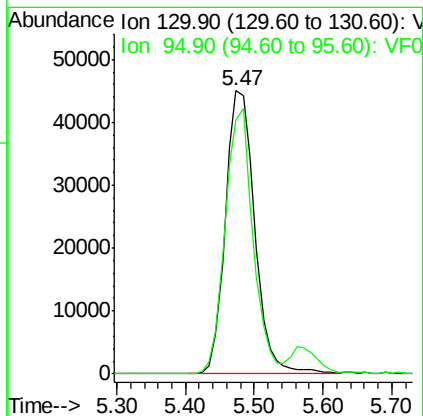
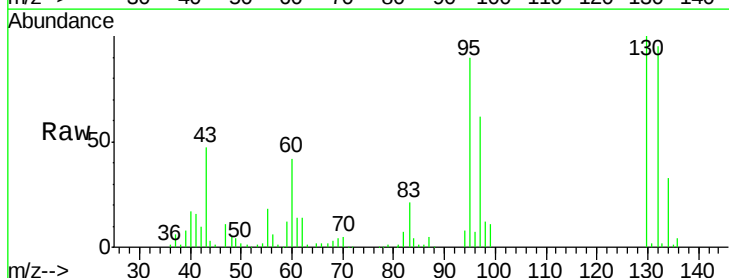
MMDadoda
 3/22/2019 4:51:23 PM

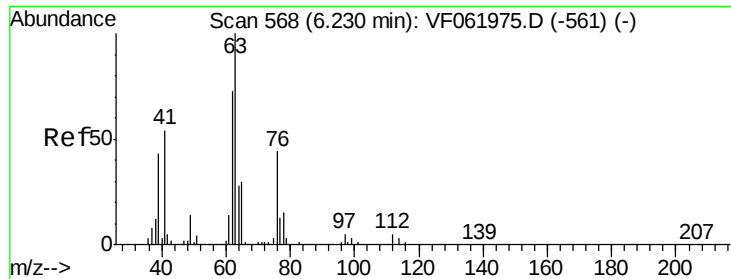


#44

Trichloroethene
 Concen: 43.321 ug/l
 RT: 5.47 min Scan# 491
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.6	0.0	181.4





#45

1,2-Dichloropropane

Concen: 44.205 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 105196

Ion Ratio Lower Upper

63 100

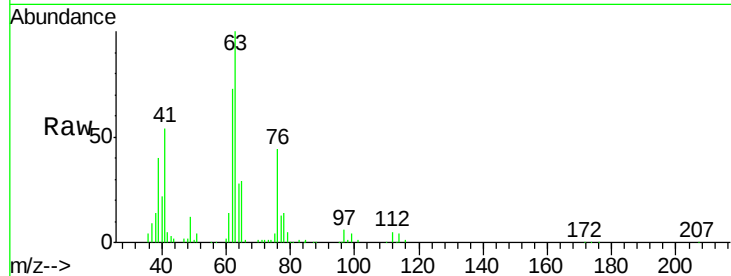
65 28.6 23.7 35.5

Manual Integrations

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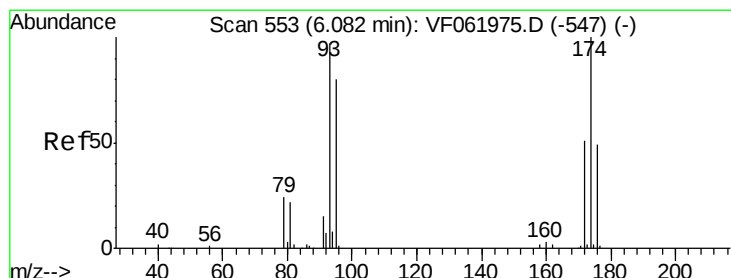
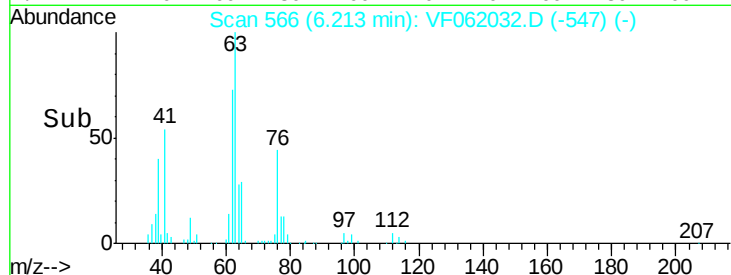
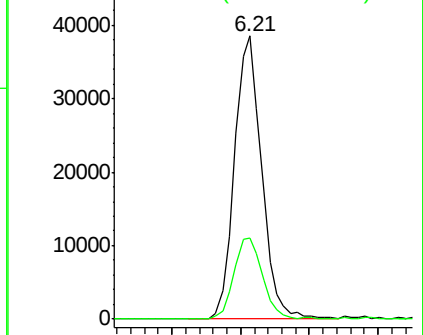
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 45.723 ug/l

RT: 6.06 min Scan# 550

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

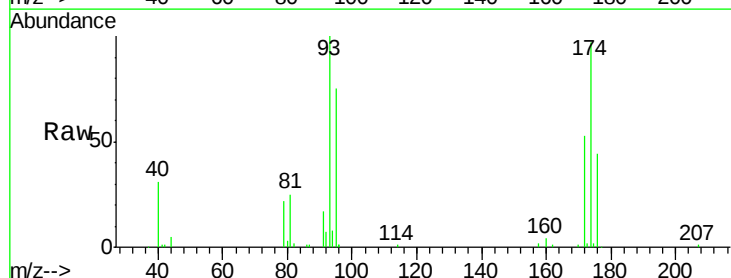
Tgt Ion: 93 Resp: 64728

Ion Ratio Lower Upper

93 100

95 76.1 65.7 98.5

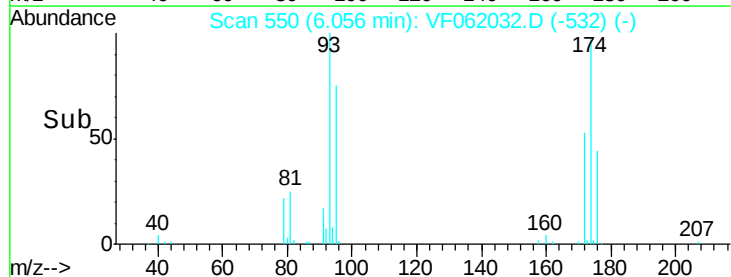
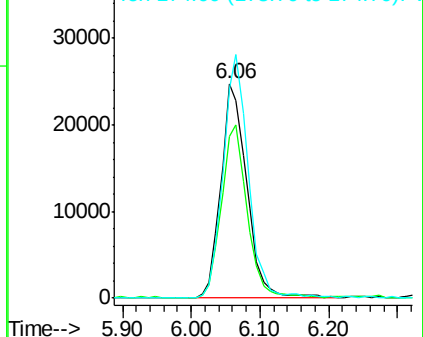
174 97.4 82.2 123.4

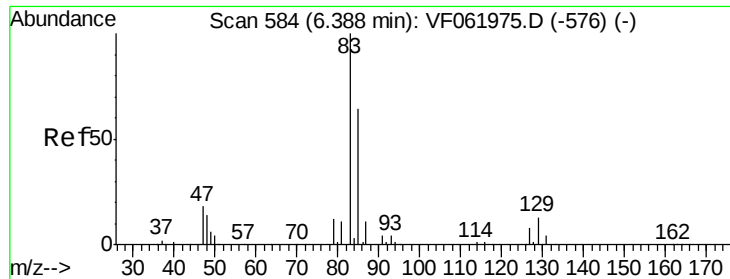


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 43.400 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

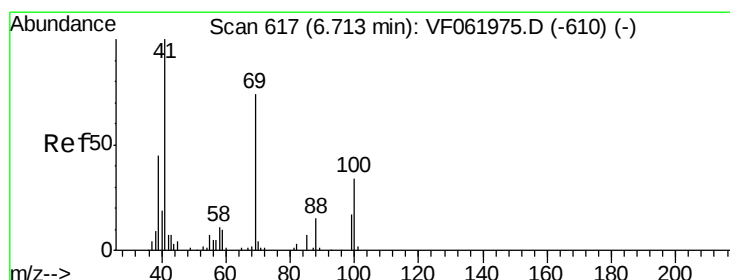
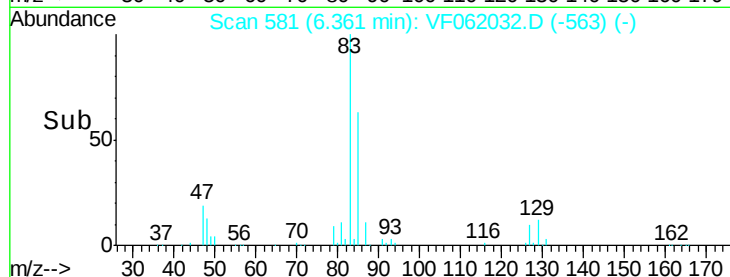
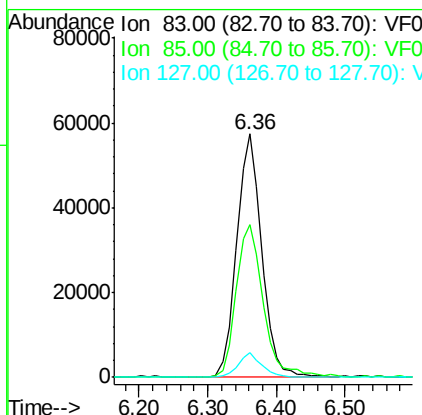
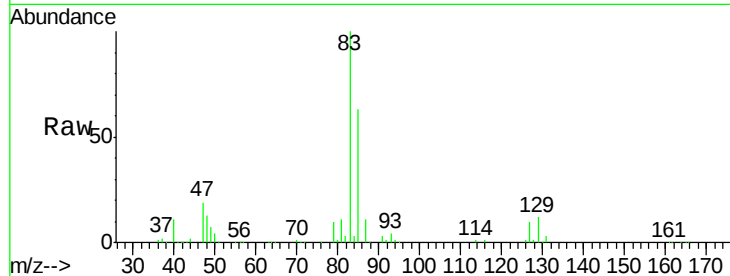
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	144850
Ion Ratio	Lower	Upper	
83	100		
85	62.8	51.4	77.2
127	9.9	6.5	9.7#

Manual Integrations
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#48

Methyl methacrylate

Concen: 39.447 ug/l

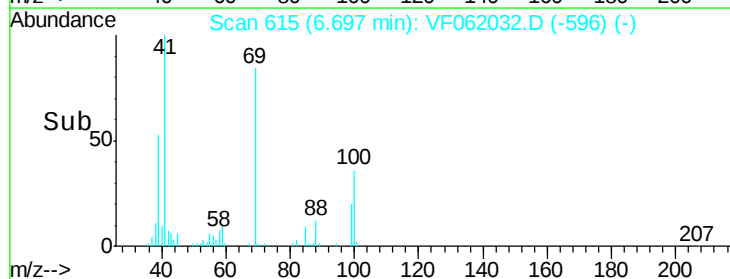
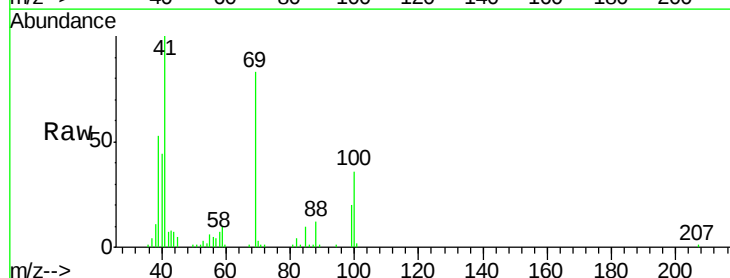
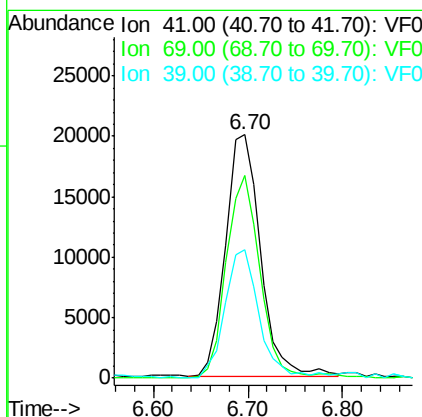
RT: 6.70 min Scan# 615

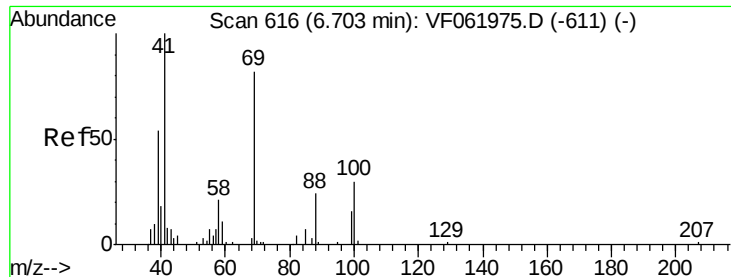
Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	41	Resp:	51398
Ion Ratio	Lower	Upper	
41	100		
69	83.1	59.0	88.6
39	52.6	35.6	53.4





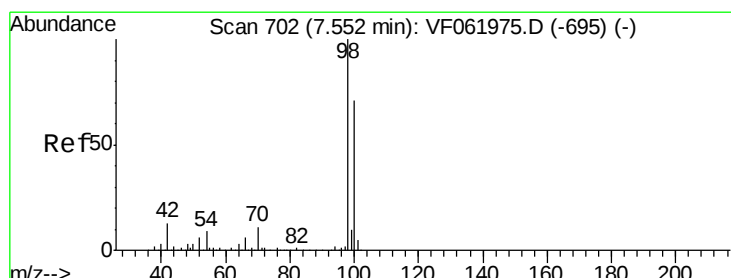
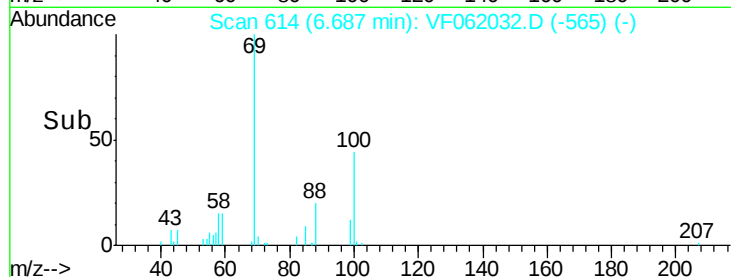
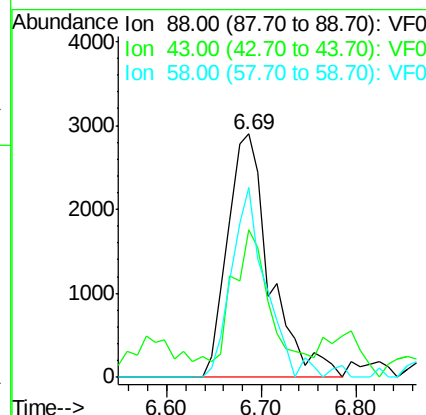
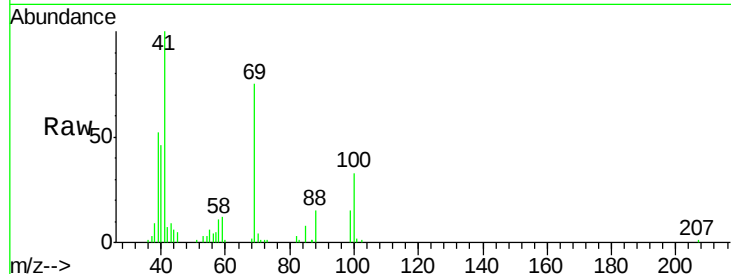
#49
1,4-Dioxane
Concen: 779.991 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	60.9	31.2	46.8#	
58	78.2	69.9	104.9	

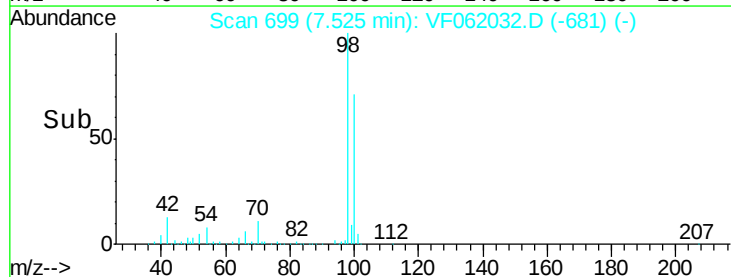
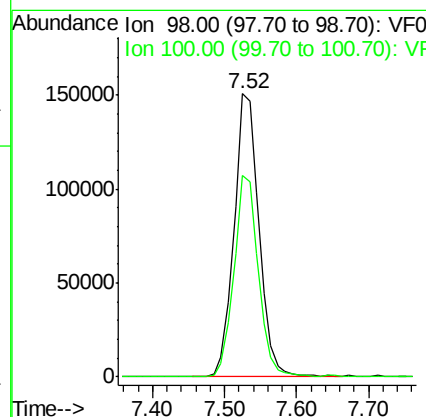
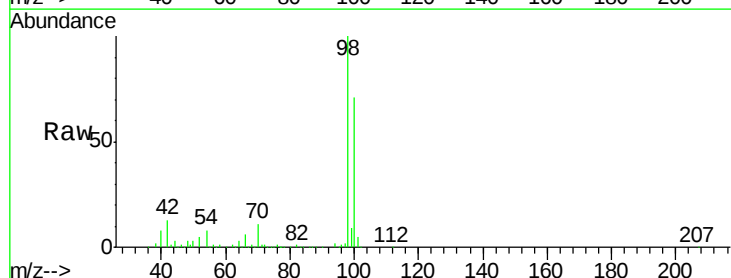
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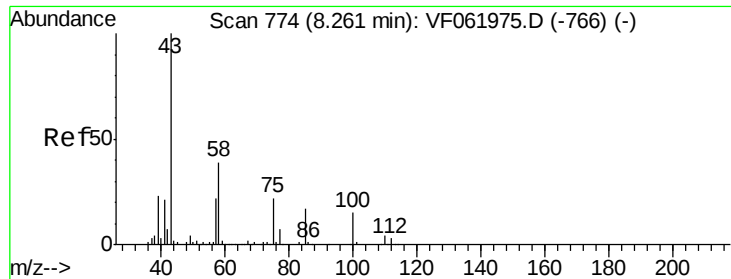
MMDadoda
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#50
Toluene-d8
Concen: 44.208 ug/l
RT: 7.52 min Scan# 699
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	71.2	56.8	85.2	





#51

4-Methyl-2-Pentanone

Concen: 201.951 ug/l

RT: 8.23 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 289119

Ion Ratio Lower Upper

43 100

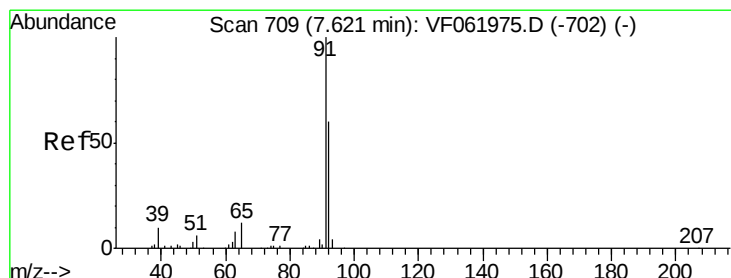
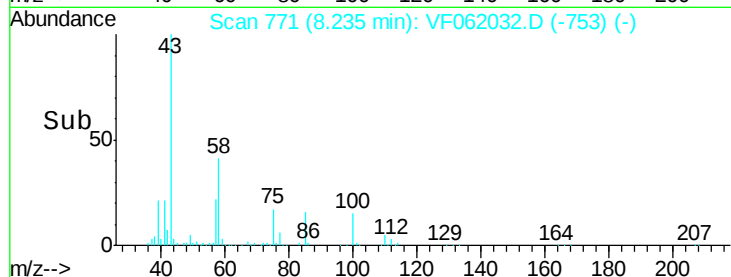
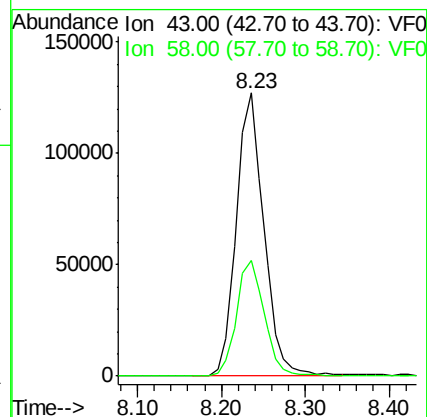
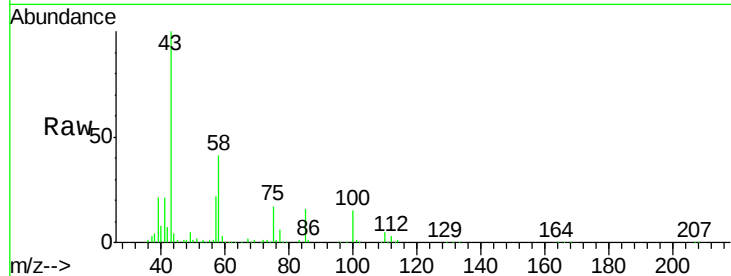
58 41.0 31.1 46.7

Manual Integrations

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#52

Toluene

Concen: 42.122 ug/l

RT: 7.59 min Scan# 706

Delta R.T. -0.03 min

Lab File: VF062032.D

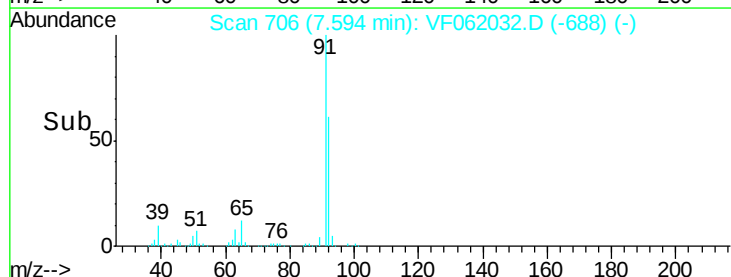
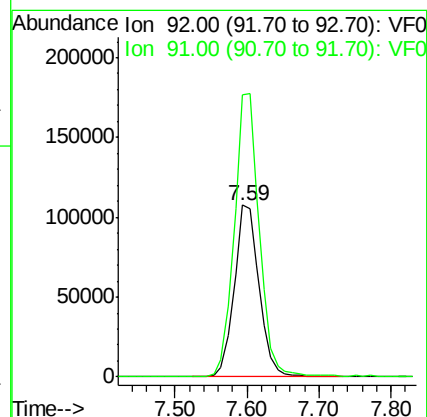
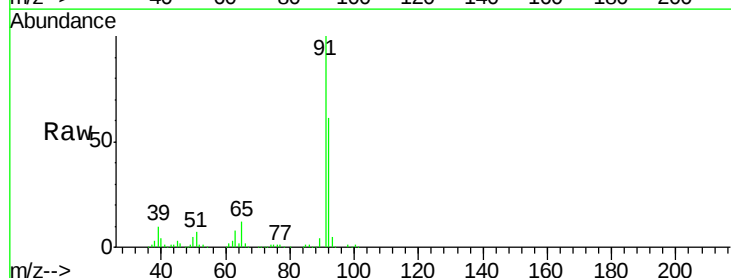
Acq: 20 Mar 2019 10:28

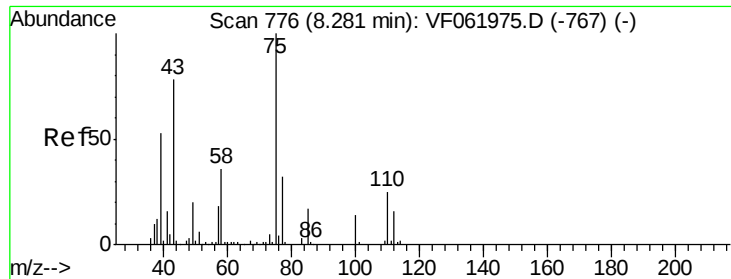
Tgt Ion: 92 Resp: 258797

Ion Ratio Lower Upper

92 100

91 164.2 134.0 201.0





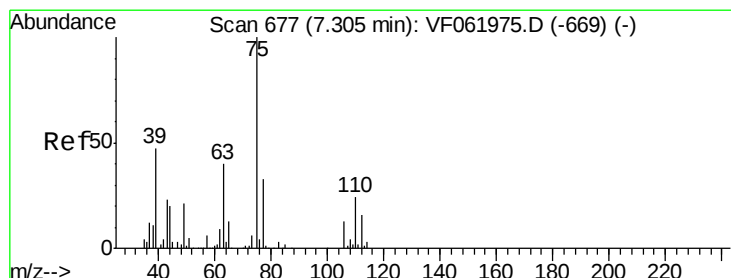
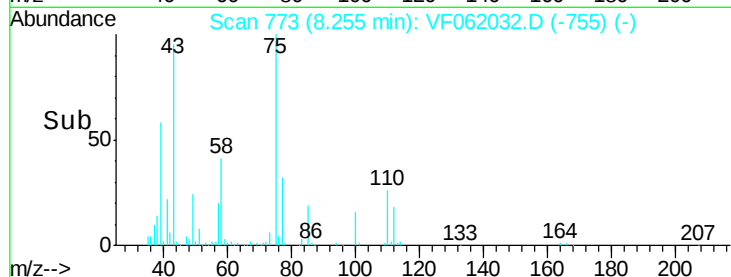
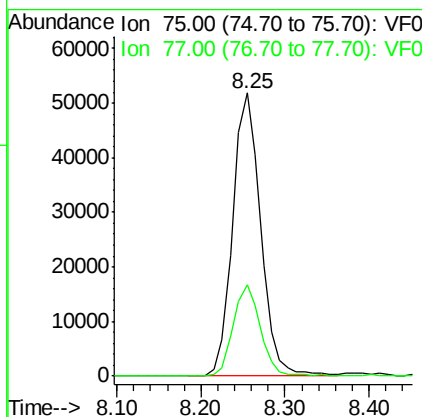
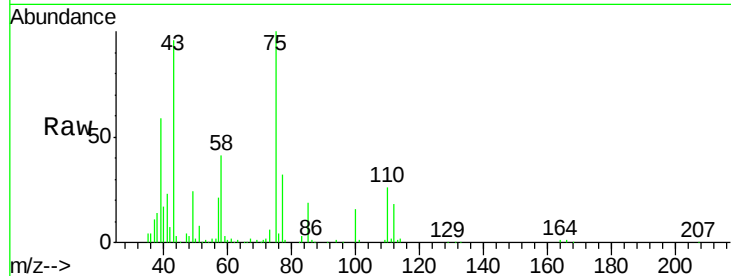
#53
t-1,3-Dichloropropene
Concen: 42.804 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.5	38.3

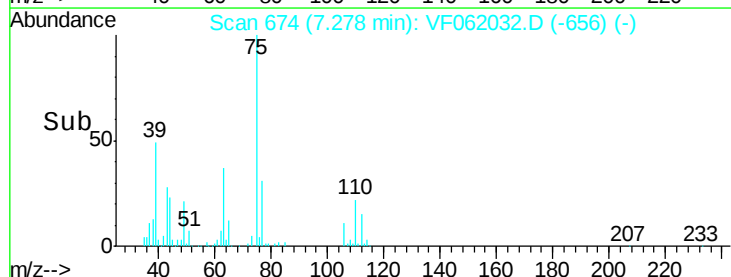
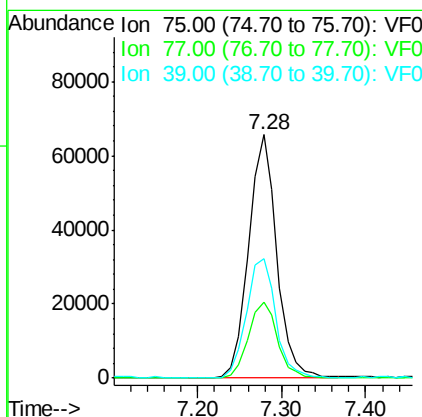
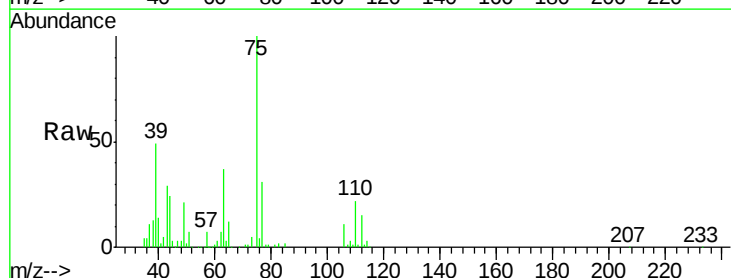
Manual Integrations
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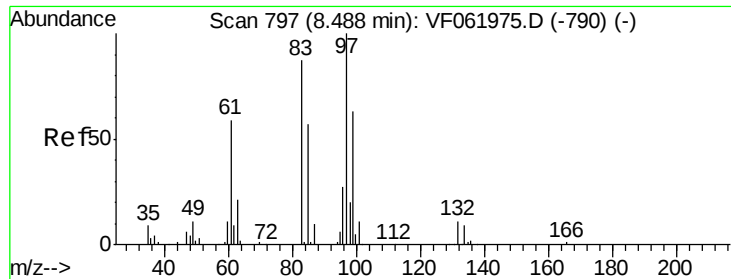
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#54
cis-1,3-Dichloropropene
Concen: 41.946 ug/l
RT: 7.28 min Scan# 674
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.4	39.6
39	49.3	38.0	57.0





#55

1,1,2-Trichloroethane

Concen: 46.617 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

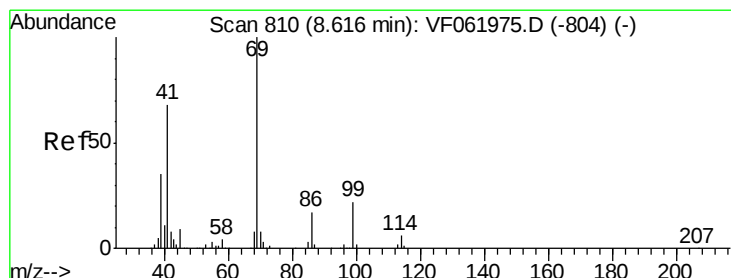
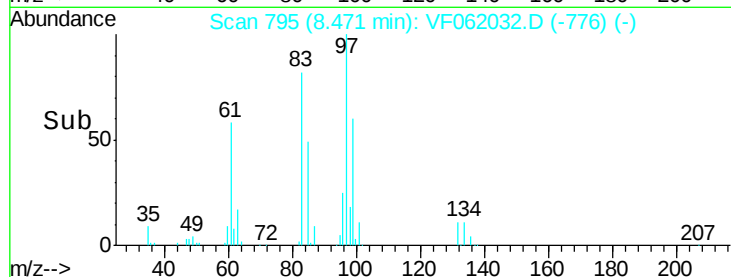
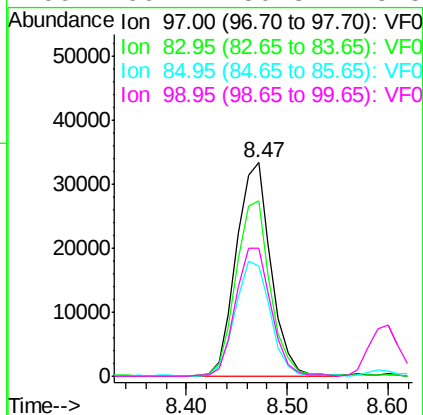
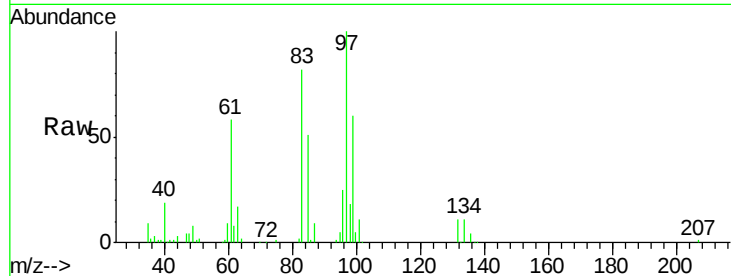
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	79939
Ion	Ratio	Lower	Upper
97	100		
83	82.1	69.7	104.5
85	51.4	45.8	68.6
99	60.2	50.3	75.5

Manual Integrations
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#56

Ethyl methacrylate

Concen: 43.176 ug/l

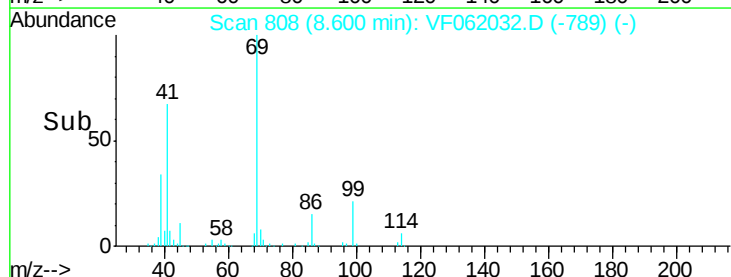
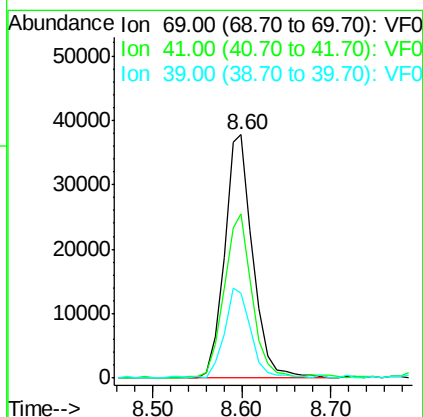
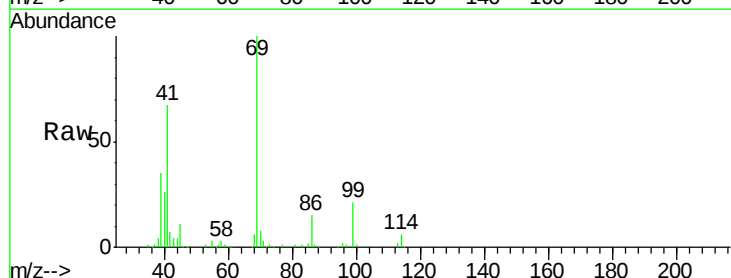
RT: 8.60 min Scan# 808

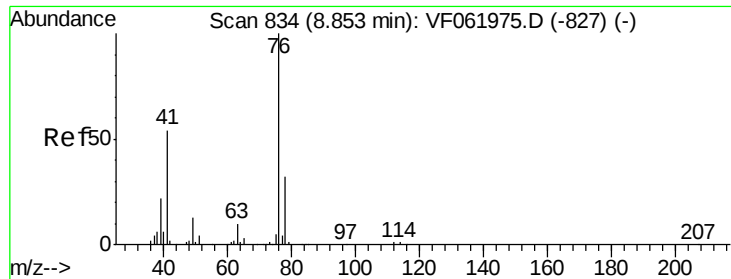
Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	69	Resp:	84163
Ion	Ratio	Lower	Upper
69	100		
41	67.2	54.7	82.1
39	34.7	27.9	41.9





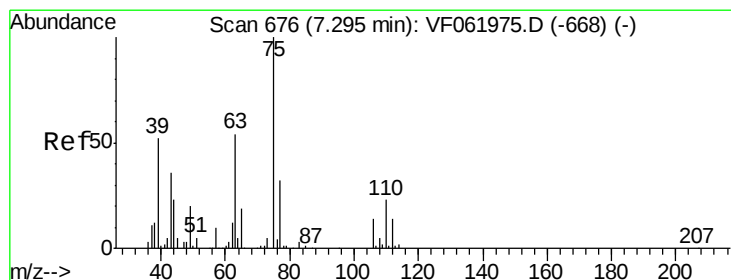
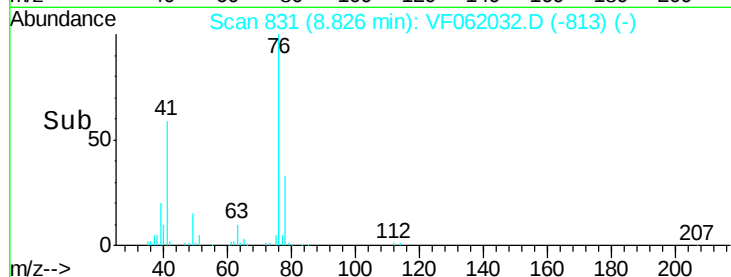
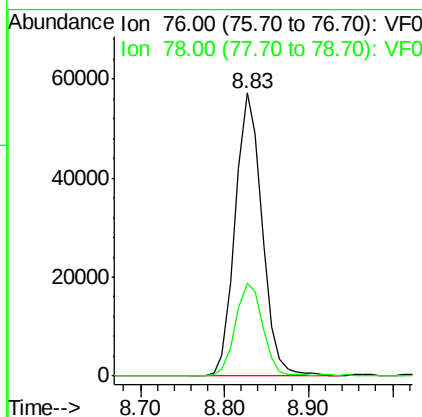
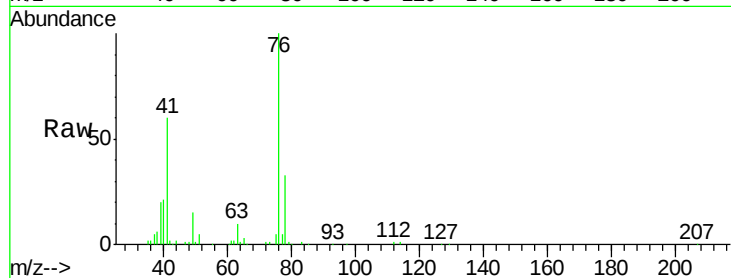
#57
 1,3-Dichloropropane
 Concen: 44.651 ug/l
 RT: 8.83 min Scan# 831
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 127723
 Ion Ratio Lower Upper
 76 100
 78 32.8 25.4 38.2

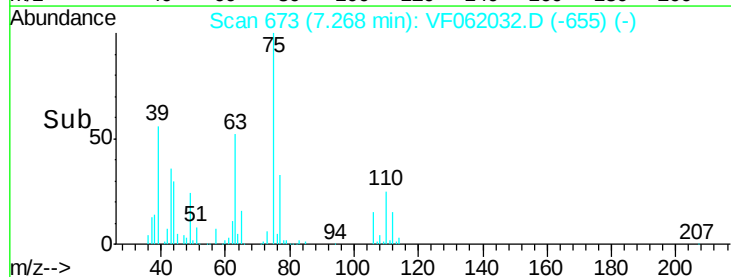
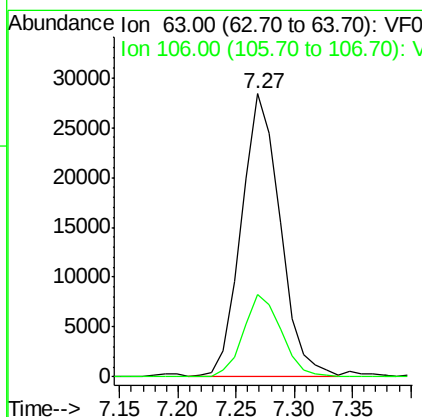
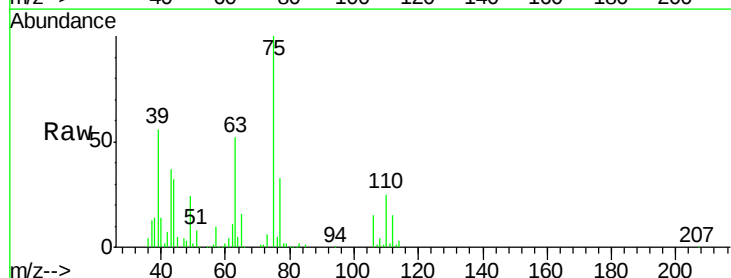
Manual Integrations
 APPROVED

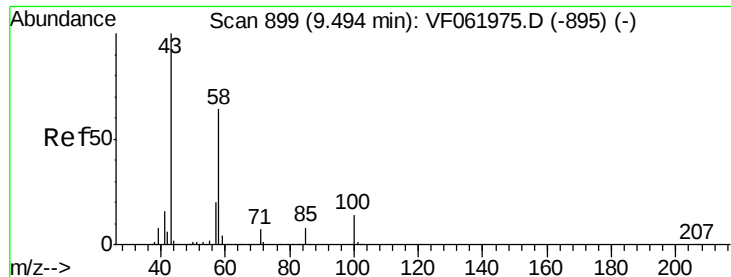
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 3/22/2019 4:51:23 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 186.194 ug/l
 RT: 7.27 min Scan# 673
 Delta R.T. -0.03 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion: 63 Resp: 65740
 Ion Ratio Lower Upper
 63 100
 106 29.0 20.9 31.3





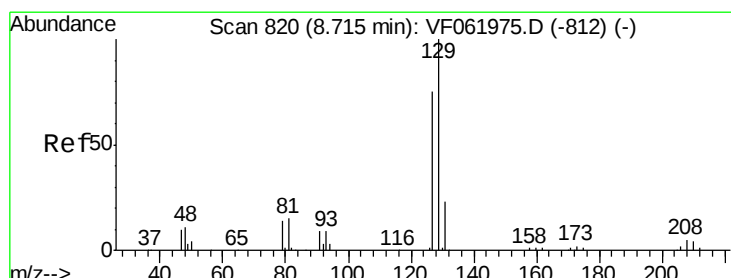
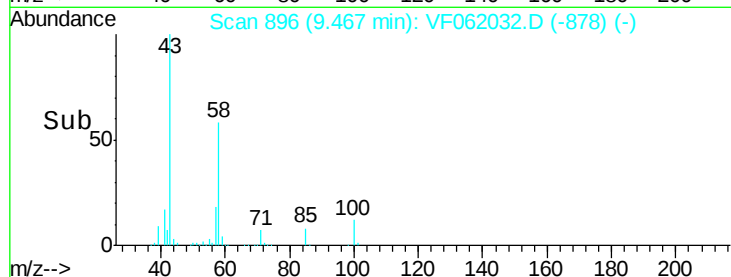
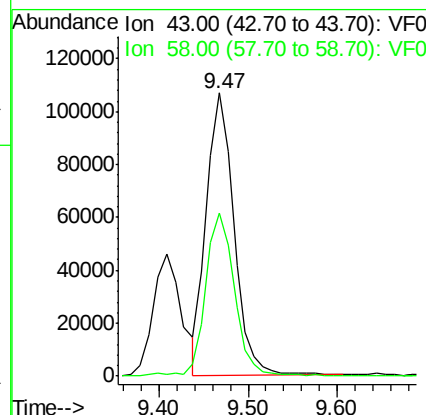
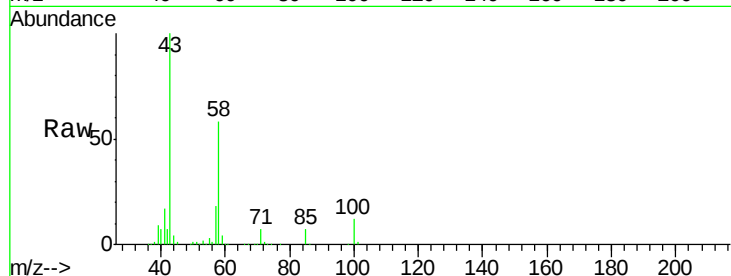
#59
2-Hexanone
Concen: 220.960 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 228932
Ion Ratio Lower Upper
43 100
58 57.8 28.4 85.2

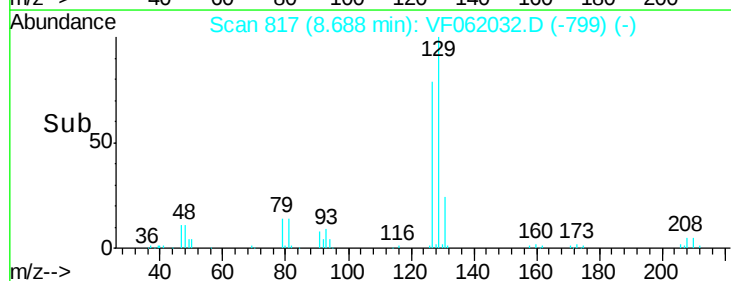
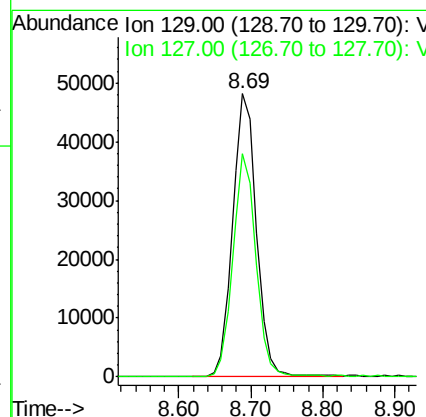
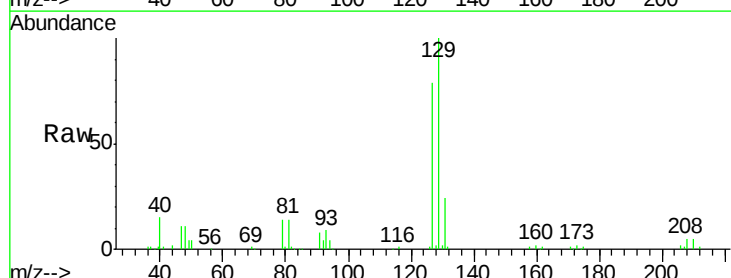
Manual Integrations
APPROVED

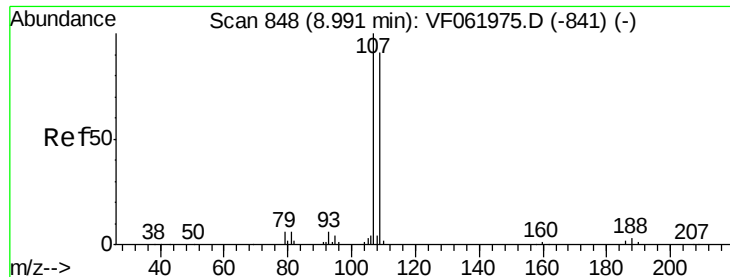
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#60
Dibromochloromethane
Concen: 46.686 ug/l
RT: 8.69 min Scan# 817
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion: 129 Resp: 111139
Ion Ratio Lower Upper
129 100
127 78.8 37.3 111.8





#61

1,2-Dibromoethane

Concen: 43.099 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 79275

Ion Ratio Lower Upper

107 100

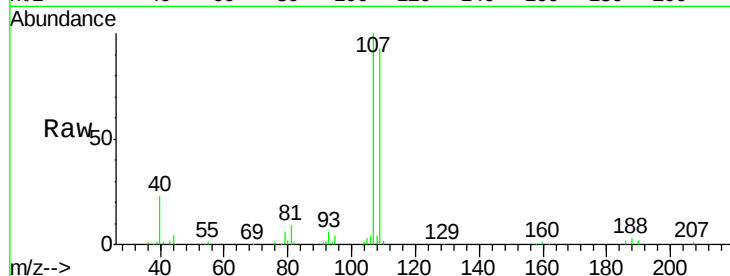
109 93.5 72.8 109.2

Manual Integrations

APPROVED

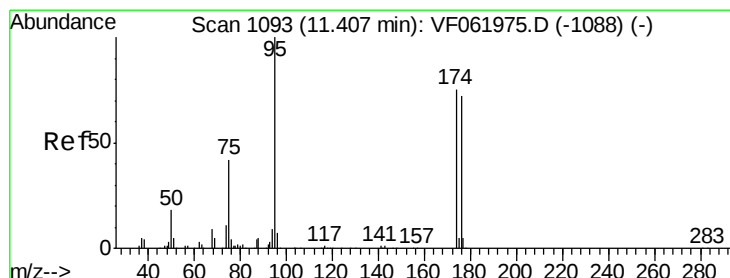
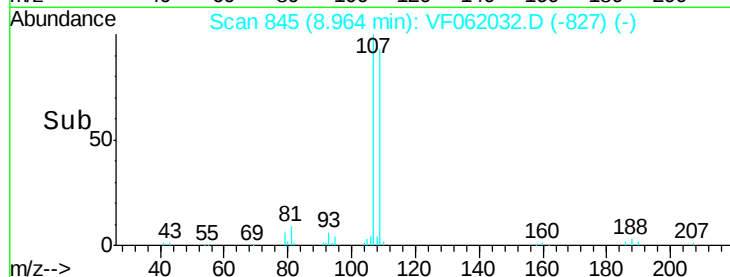
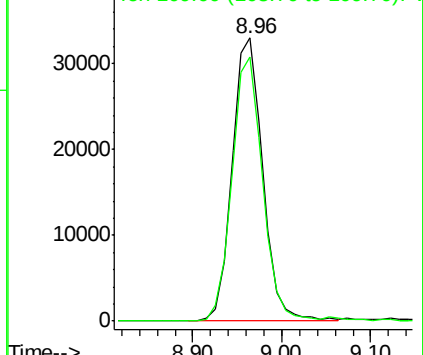
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.448 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

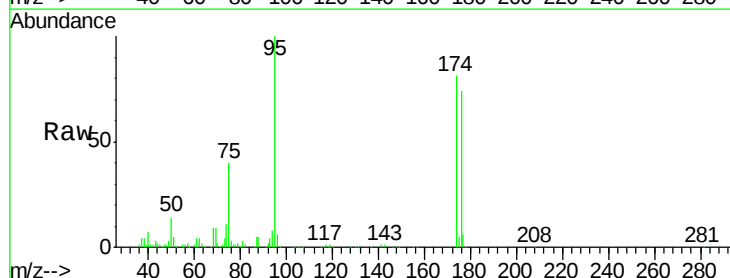
Tgt Ion: 95 Resp: 148941

Ion Ratio Lower Upper

95 100

174 80.6 0.0 149.4

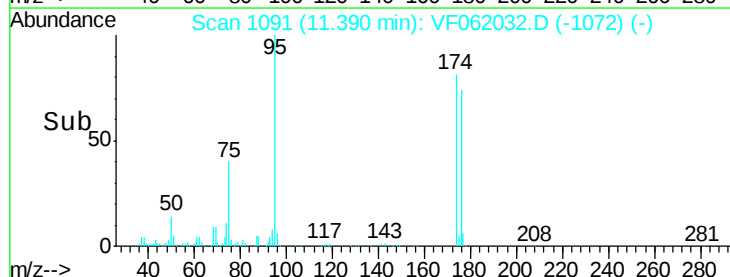
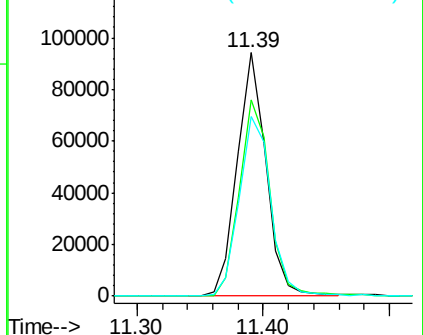
176 73.6 0.0 143.4

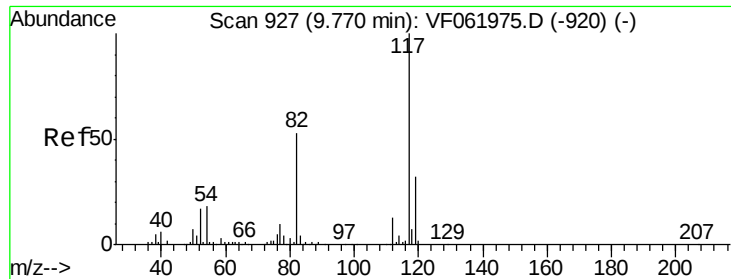


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





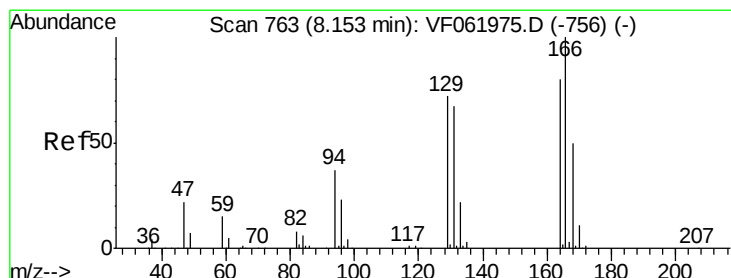
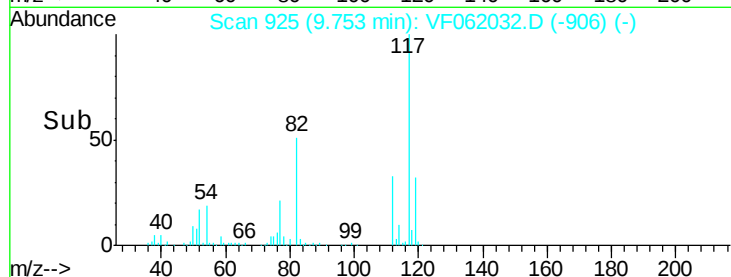
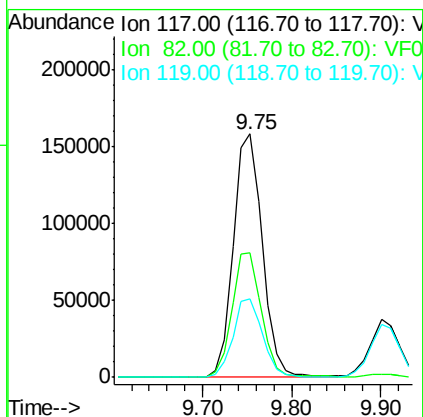
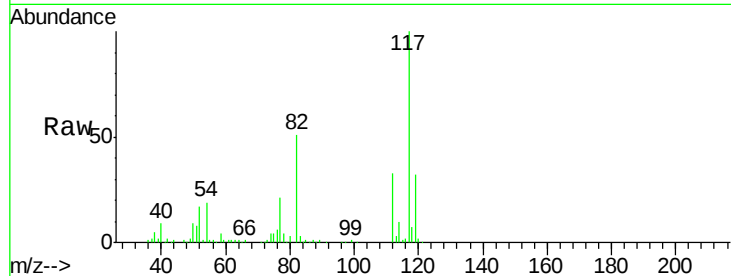
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	362761		
82	50.9	42.5	63.7	
119	32.3	25.4	38.0	

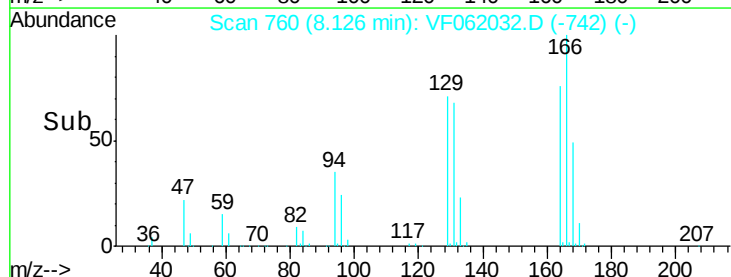
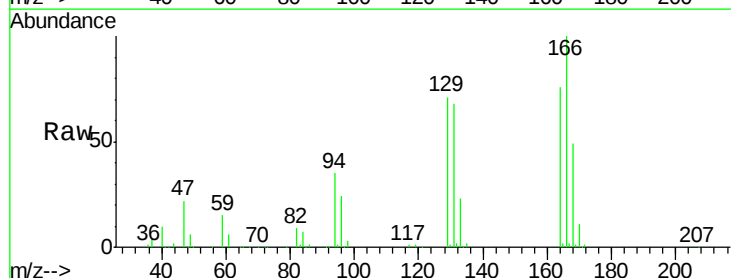
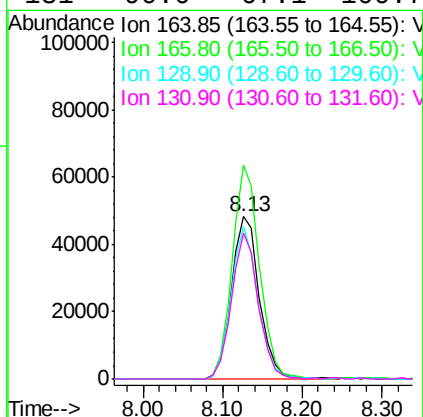
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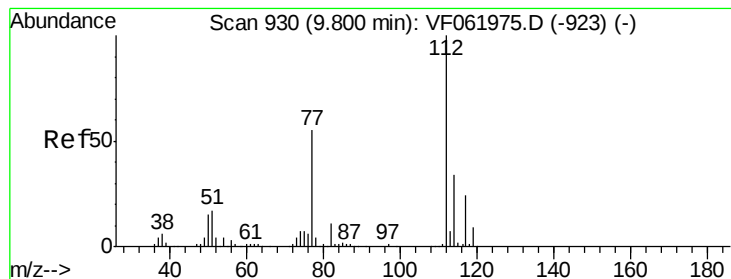
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#64
Tetrachloroethene
Concen: 44.840 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	118239		
166	131.6	100.0	150.0	
129	93.5	72.4	108.6	
131	90.0	67.1	100.7	





#65

Chlorobenzene

Concen: 44.019 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 297304

Ion Ratio Lower Upper

112 100

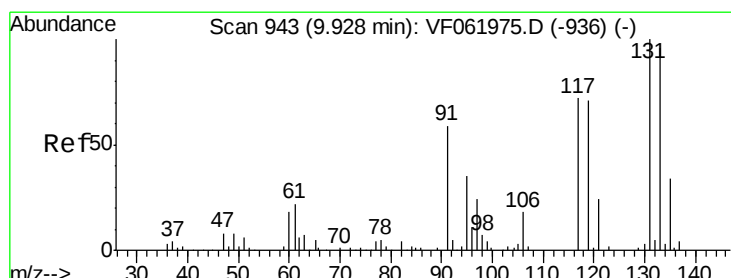
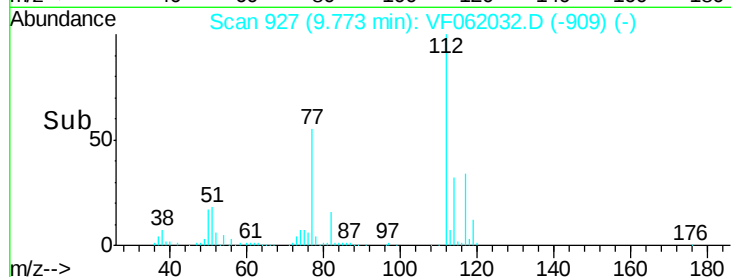
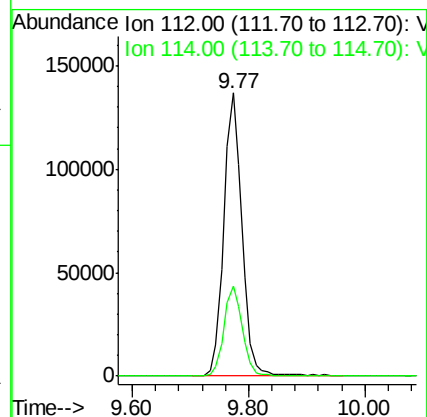
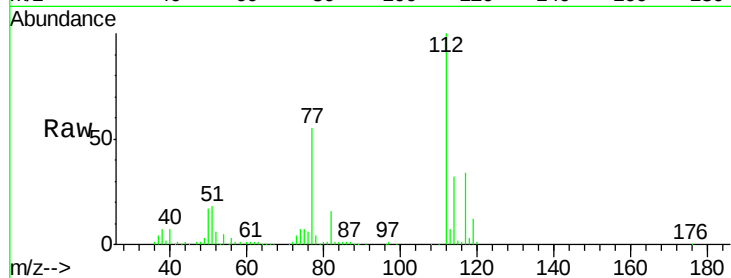
114 32.0 26.9 40.3

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 46.228 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

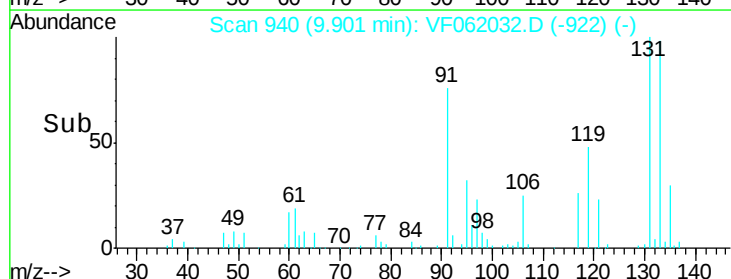
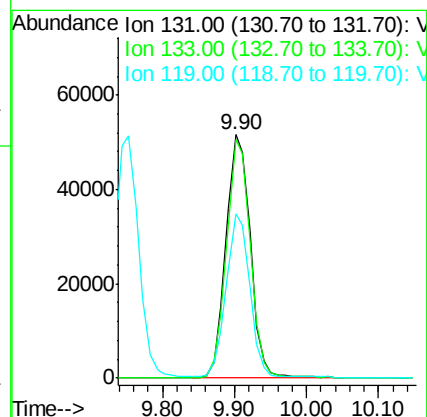
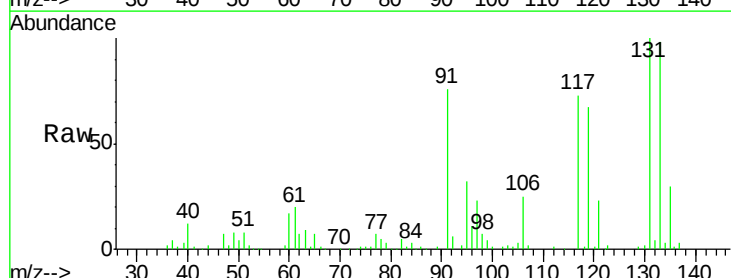
Tgt Ion:131 Resp: 121024

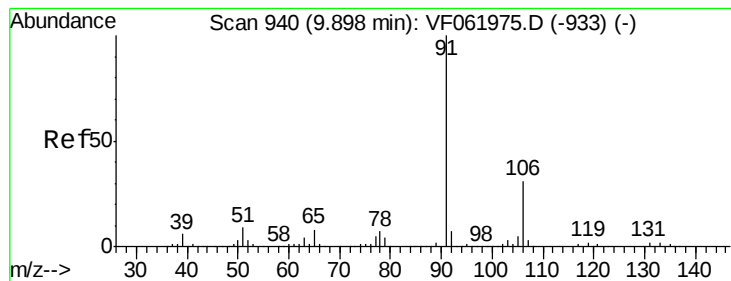
Ion Ratio Lower Upper

131 100

133 97.8 48.0 144.2

119 67.4 35.9 107.7





#67

Ethyl Benzene

Concen: 41.677 ug/l

RT: 9.87 min Scan# 937

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 481962

Ion Ratio Lower Upper

91 100

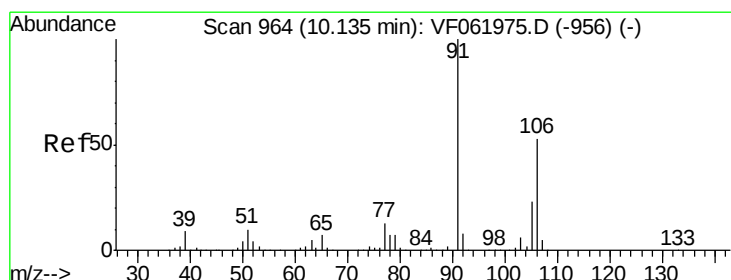
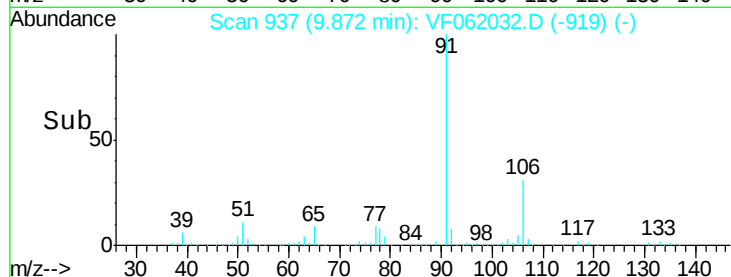
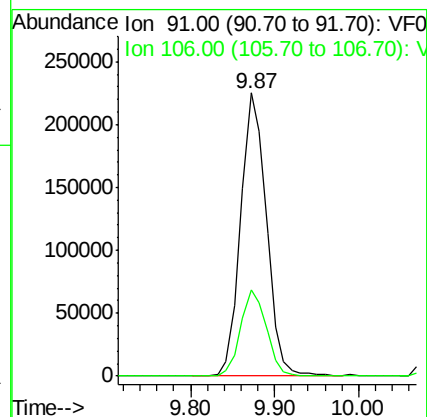
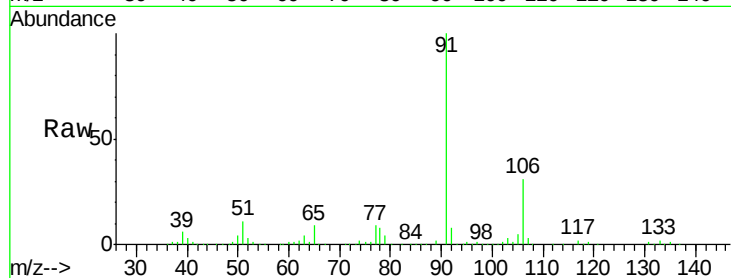
106 30.7 24.4 36.6

Manual Integrations

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#68

m/p-Xylenes

Concen: 84.126 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF062032.D

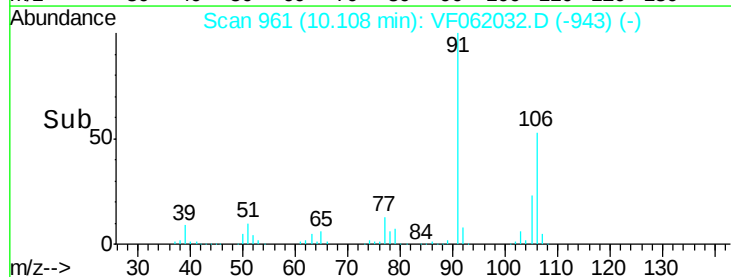
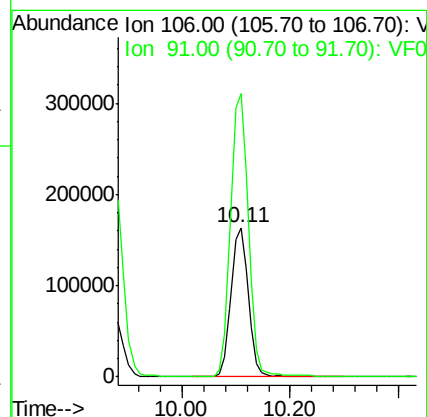
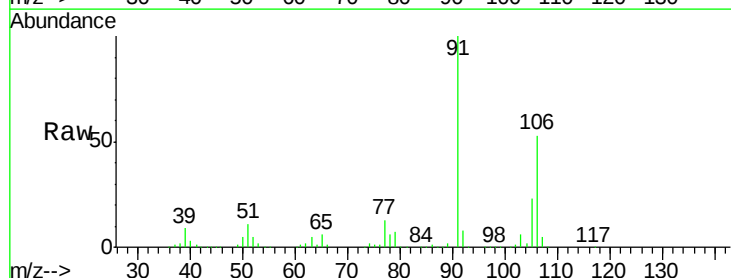
Acq: 20 Mar 2019 10:28

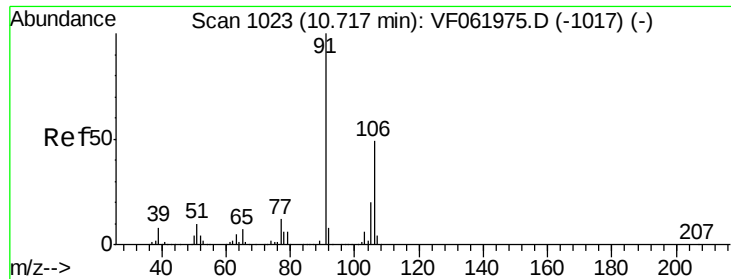
Tgt Ion: 106 Resp: 365899

Ion Ratio Lower Upper

106 100

91 189.9 151.9 227.9





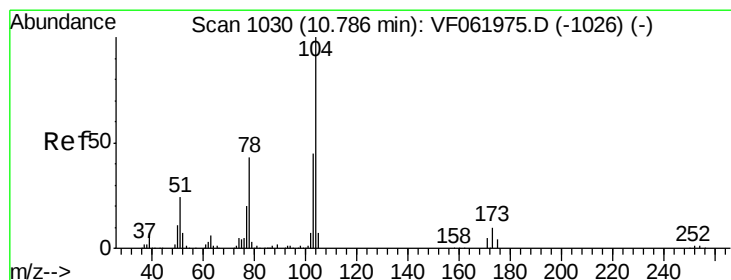
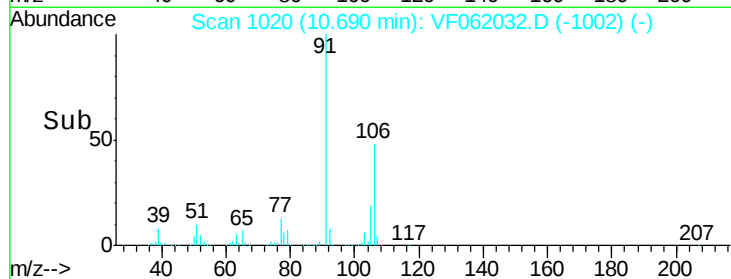
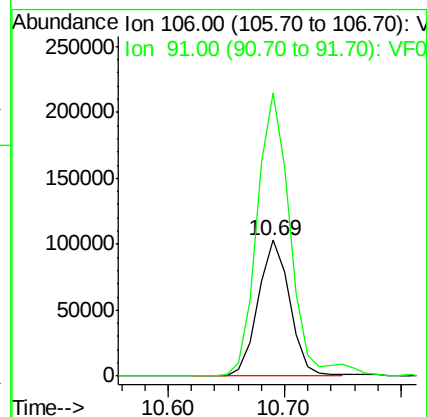
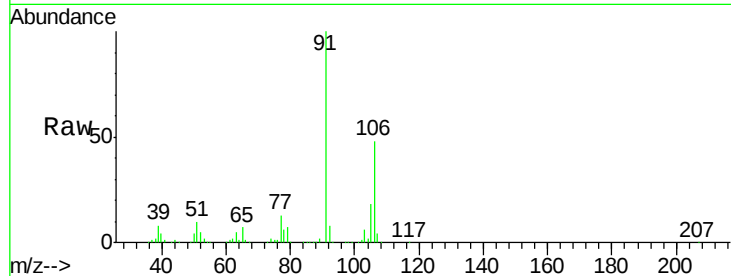
#69
o-Xylene
Concen: 41.580 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.0	102.3	306.8

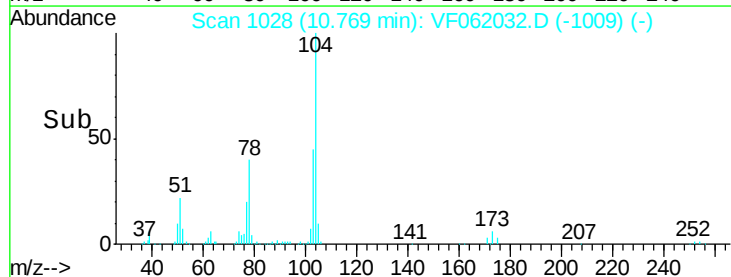
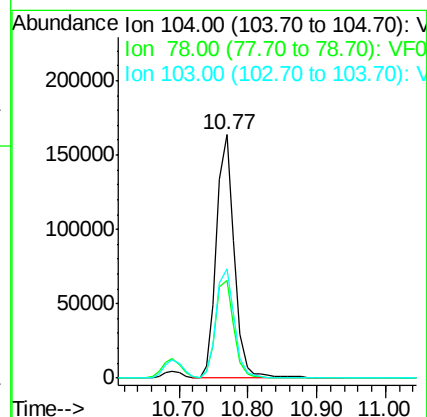
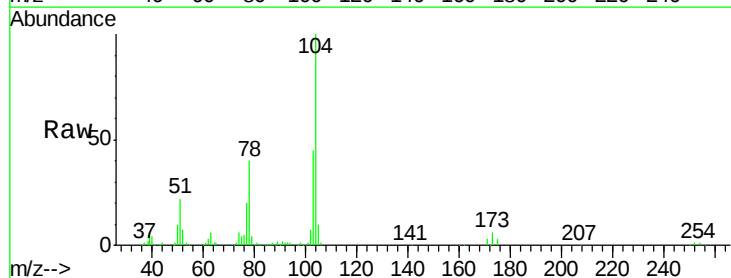
Manual Integrations
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#70
Styrene
Concen: 45.625 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.4	34.7	52.1
103	44.8	36.6	54.8





#71

Bromoform

Concen: 45.993 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 60904

Ion Ratio Lower Upper

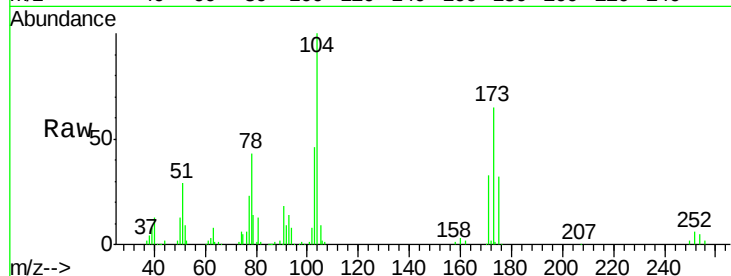
173 100

175 48.0 23.7 71.1

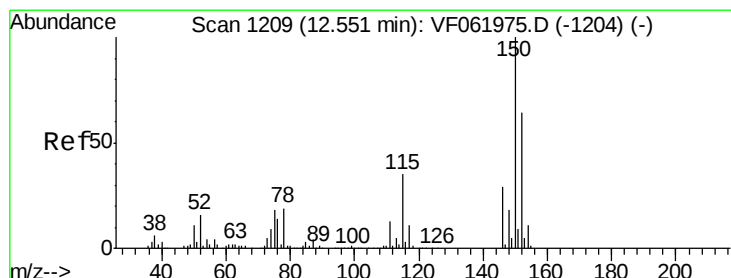
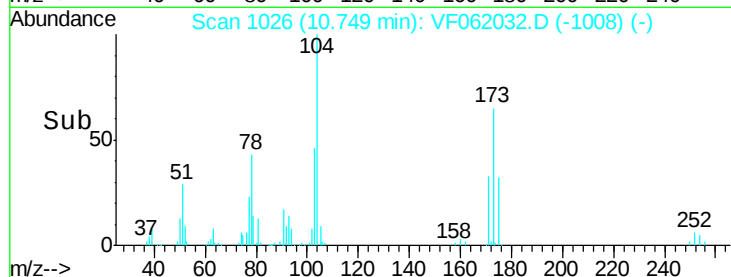
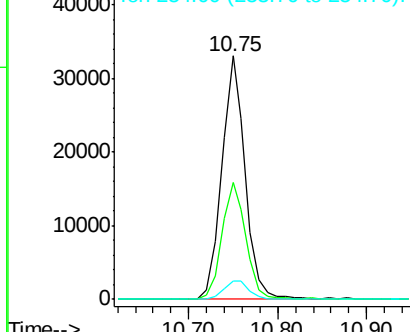
254 7.4 7.8 11.8#

Manual Integrations
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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: 50.000 ug/l

RT: 12.53 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

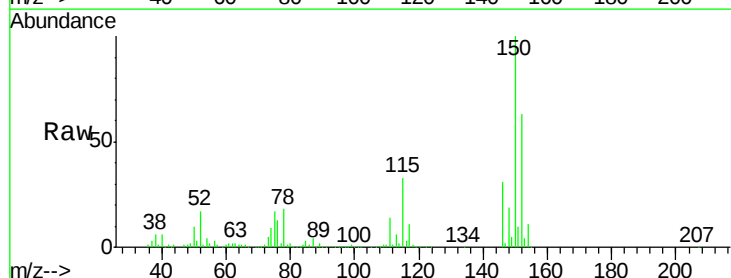
Tgt Ion:152 Resp: 192696

Ion Ratio Lower Upper

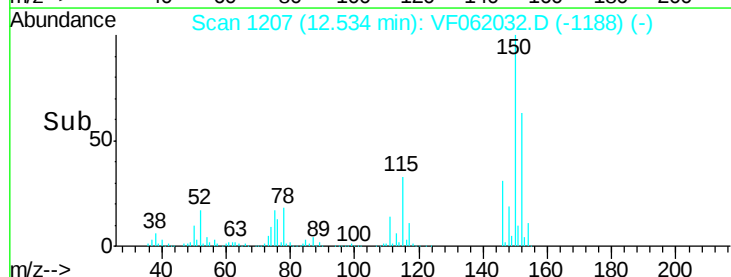
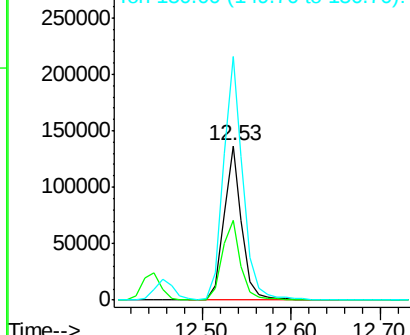
152 100

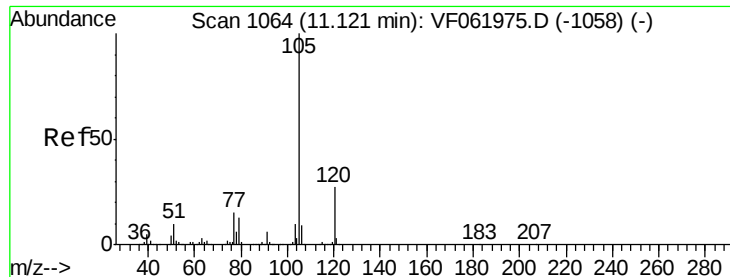
115 51.5 27.3 81.9

150 157.6 0.0 316.2



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: 44.746 ug/l

RT: 11.10 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 595680

Ion Ratio Lower Upper

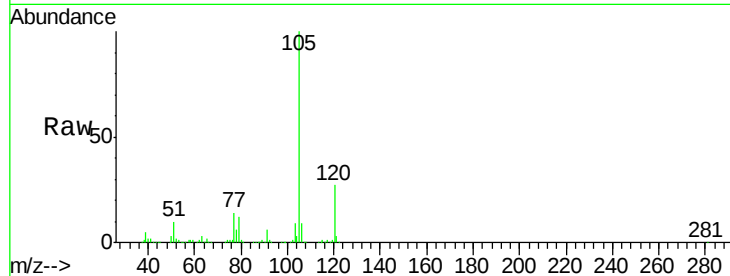
105 100

120 27.2 13.8 41.3

Manual Integrations
APPROVED

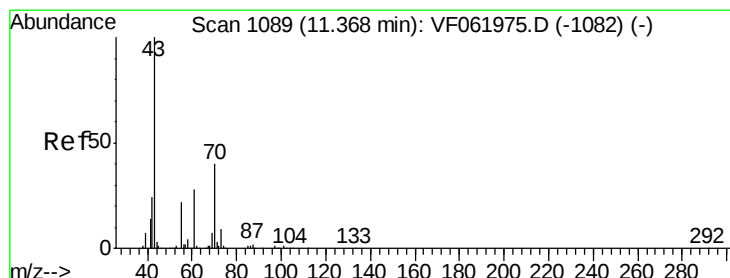
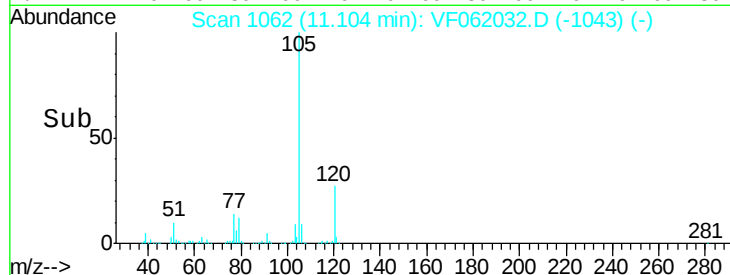
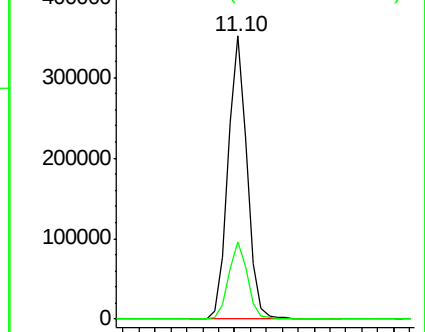
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 42.860 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion: 43 Resp: 130740

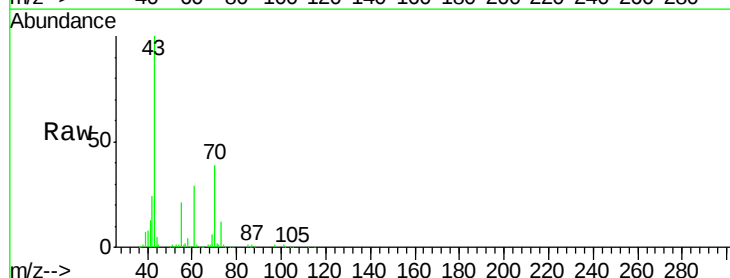
Ion Ratio Lower Upper

43 100

70 38.7 31.9 47.9

55 21.0 17.9 26.9

61 29.1 22.2 33.2

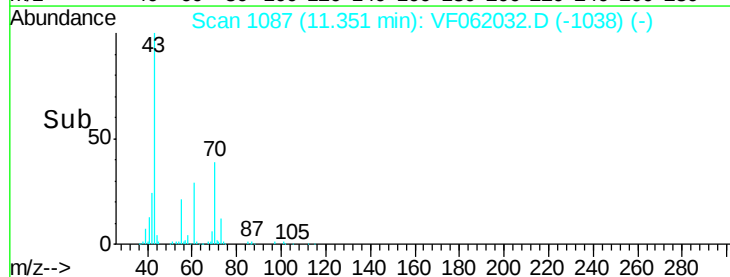
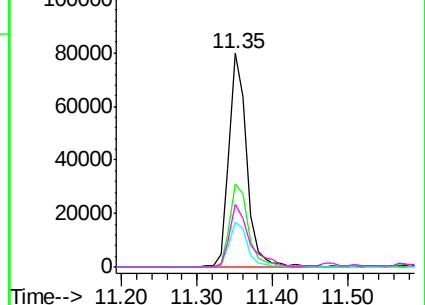


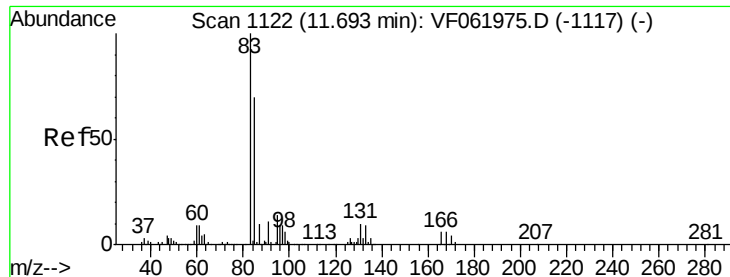
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 43.600 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

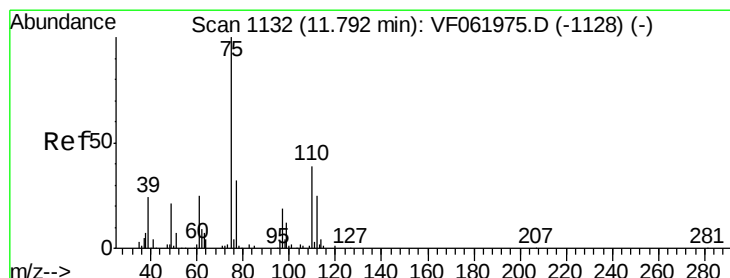
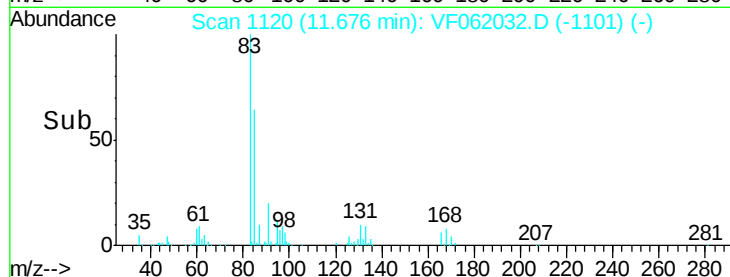
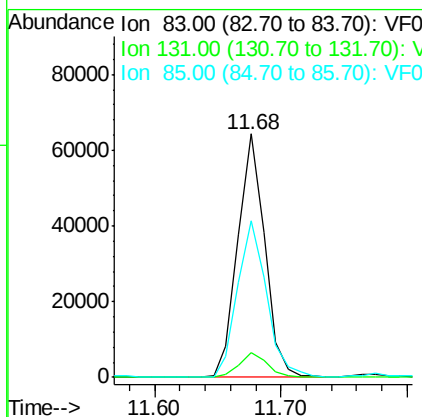
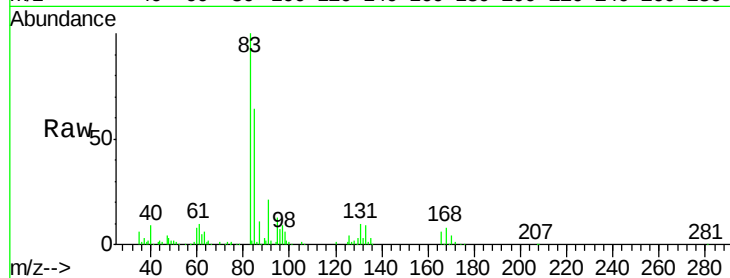
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	95807
Ion Ratio	Lower	Upper	
83	100		
131	10.3	4.9	14.7
85	64.5	35.3	105.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 42.299 ug/l

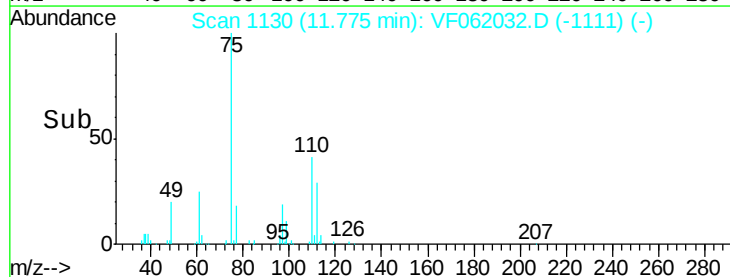
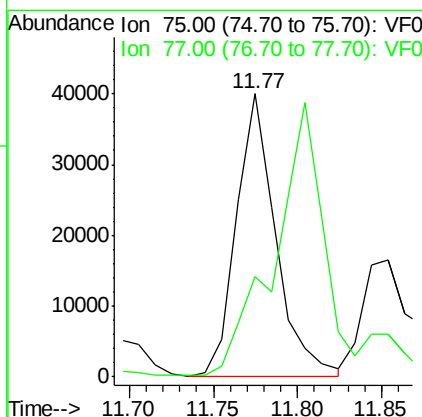
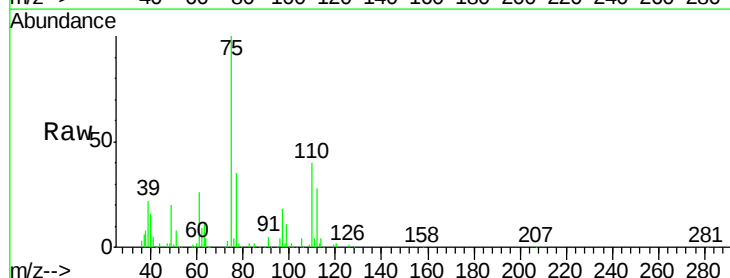
RT: 11.77 min Scan# 1130

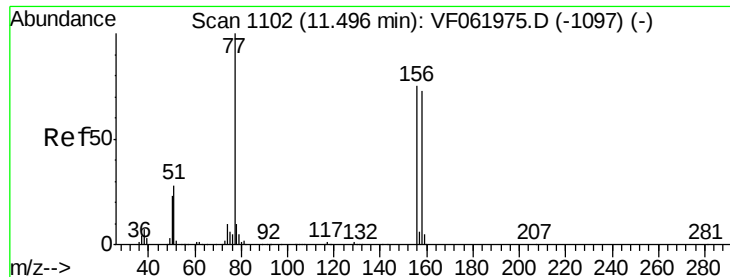
Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	75	Resp:	64995
Ion Ratio	Lower	Upper	
75	100		
77	35.4	16.4	49.2





#77

Bromobenzene

Concen: 44.039 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

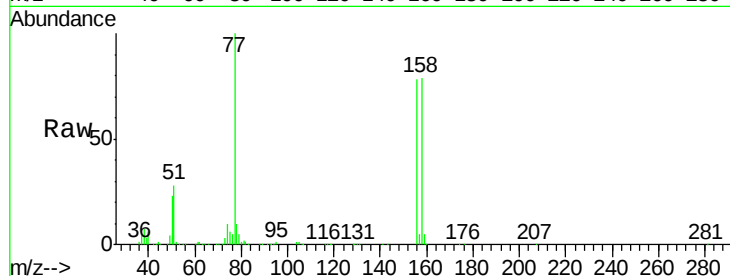
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	135771
Ion Ratio	Lower	Upper	
156	100		
77	128.4	67.0	201.0
158	101.0	48.9	146.7

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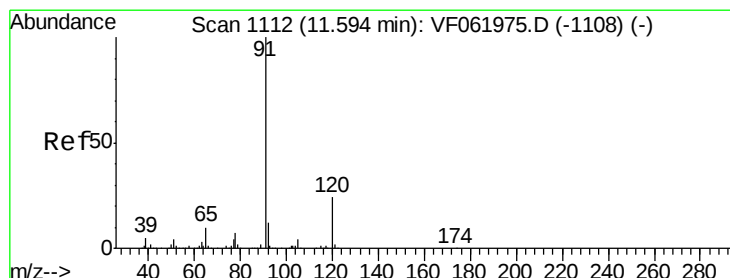
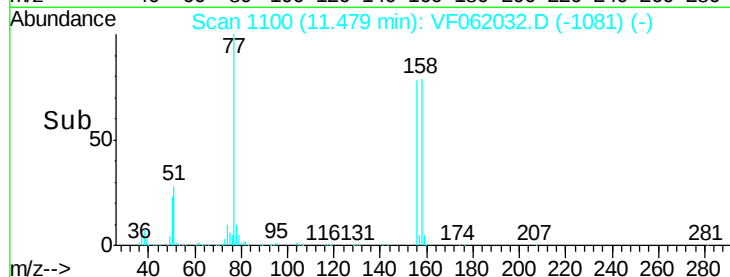
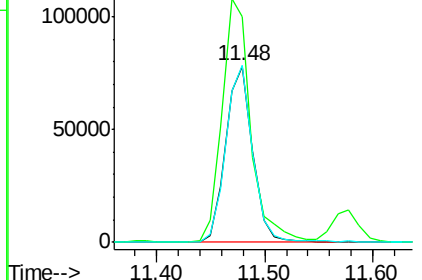
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 41.989 ug/l

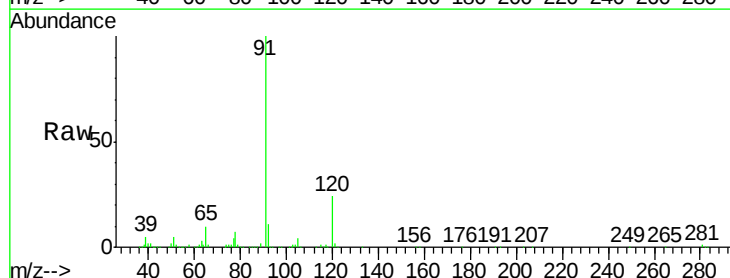
RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF062032.D

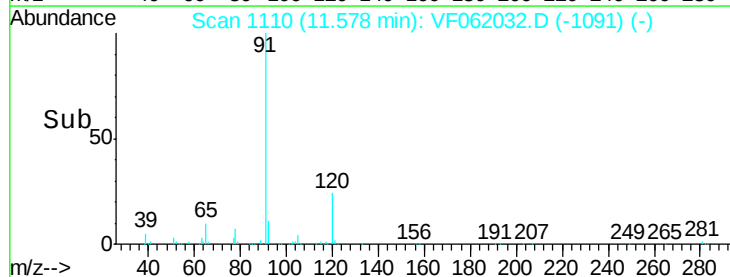
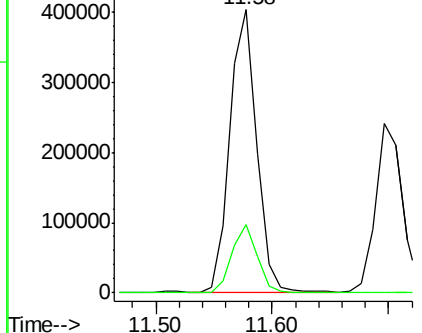
Acq: 20 Mar 2019 10:28

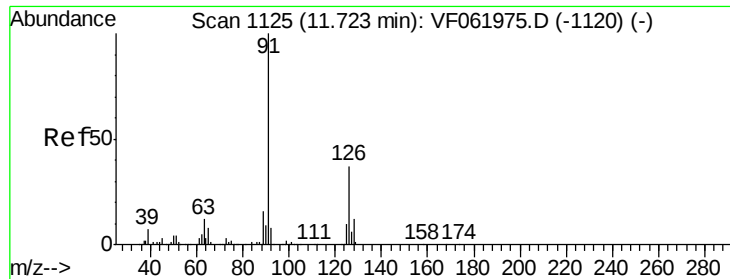
Tgt Ion:	91	Resp:	642742
Ion Ratio	Lower	Upper	
91	100		
120	24.1	11.8	35.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 44.300 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 382772

Ion Ratio Lower Upper

91 100

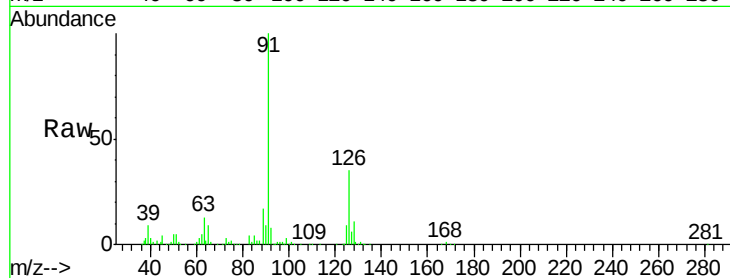
126 35.3 18.4 55.2

Manual Integrations

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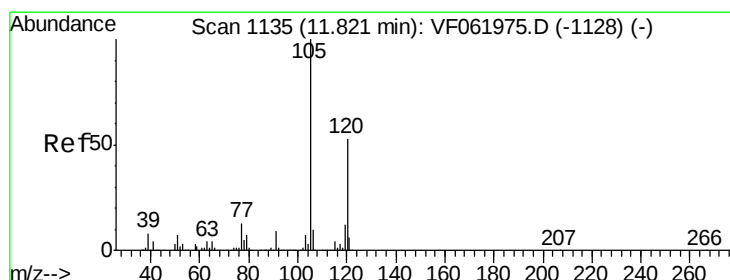
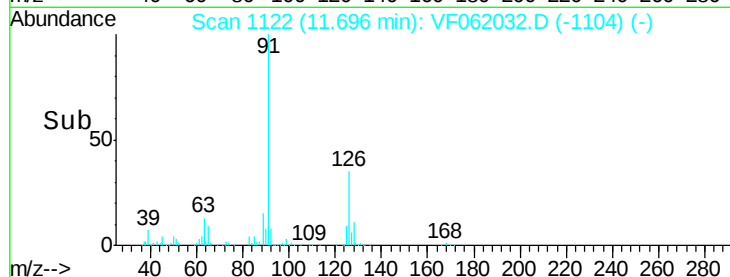
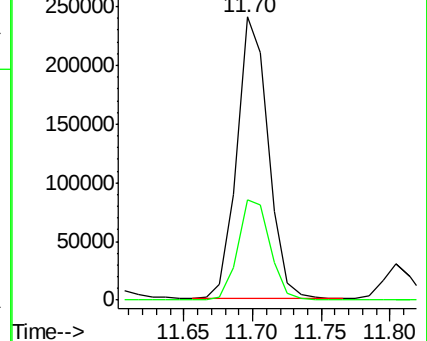
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 42.458 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF062032.D

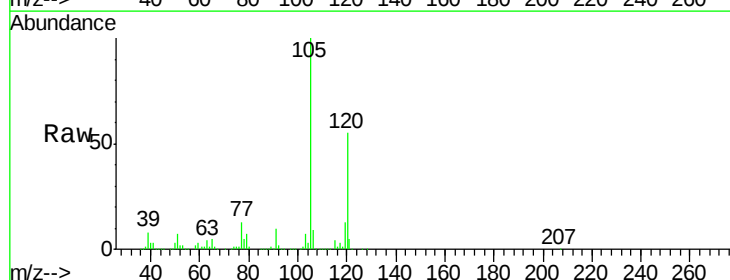
Acq: 20 Mar 2019 10:28

Tgt Ion: 105 Resp: 456577

Ion Ratio Lower Upper

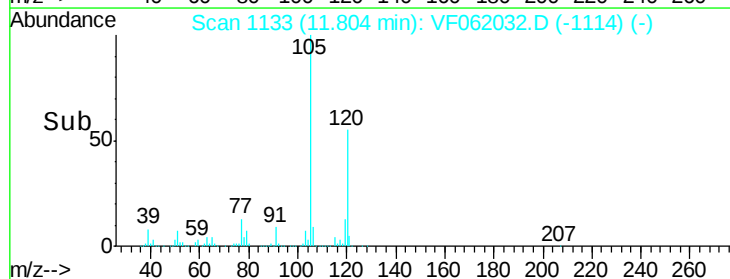
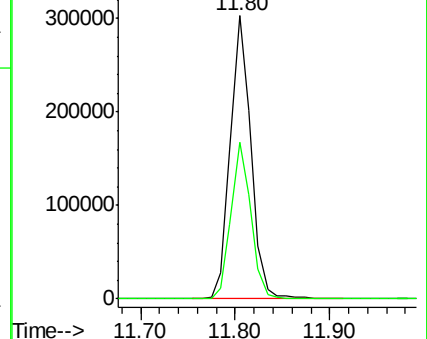
105 100

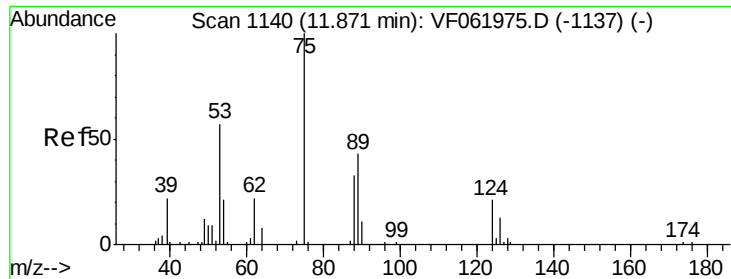
120 55.4 26.6 79.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





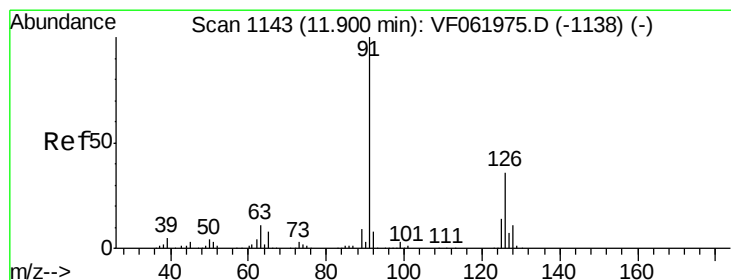
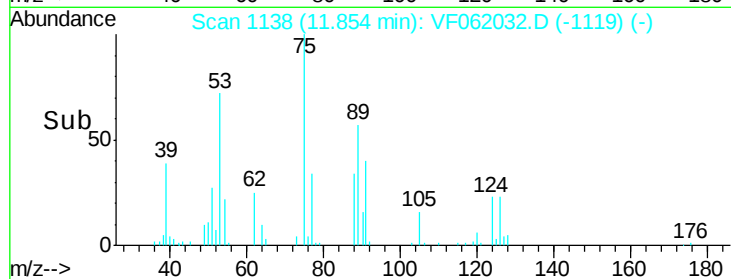
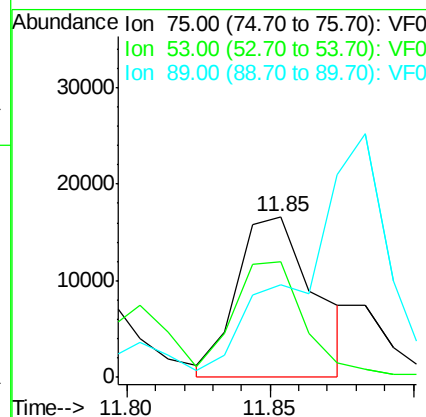
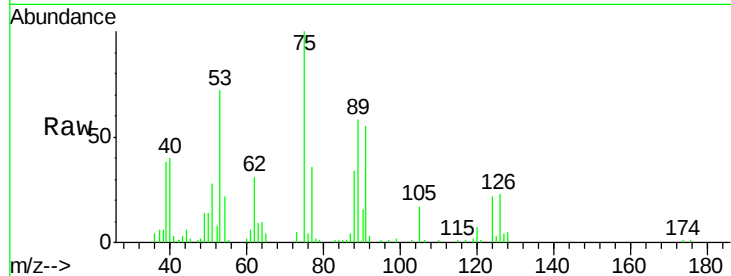
#81
trans-1,4-Dichloro-2-butene
Concen: 46.583 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	71.7	49.0	73.6
89	57.7	37.1	55.7

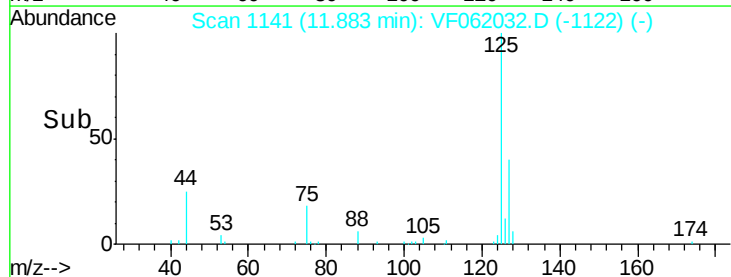
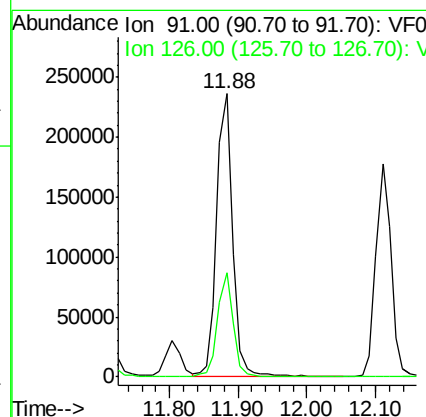
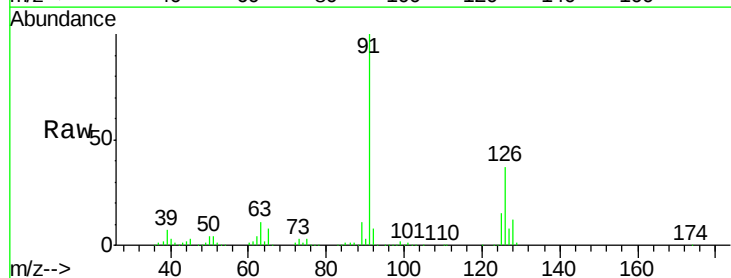
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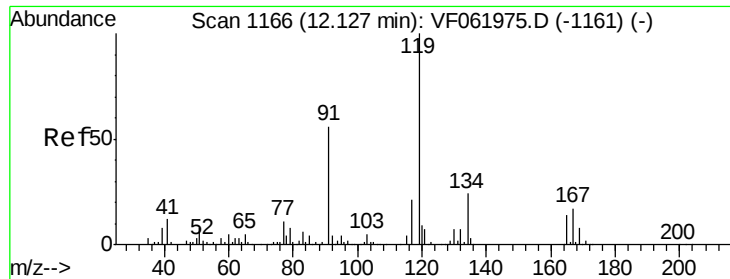
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#82
4-Chlorotoluene
Concen: 43.353 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.1	54.1





#83

tert-Butylbenzene

Concen: 45.627 ug/l

RT: 12.11 min Scan# 1164

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

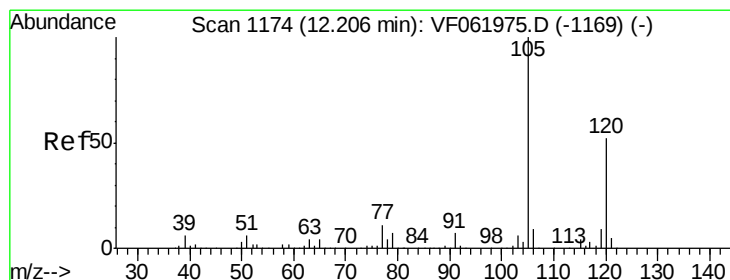
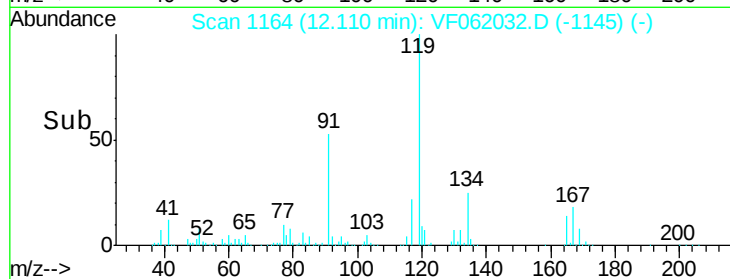
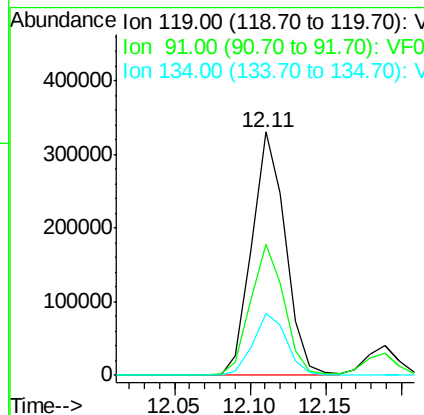
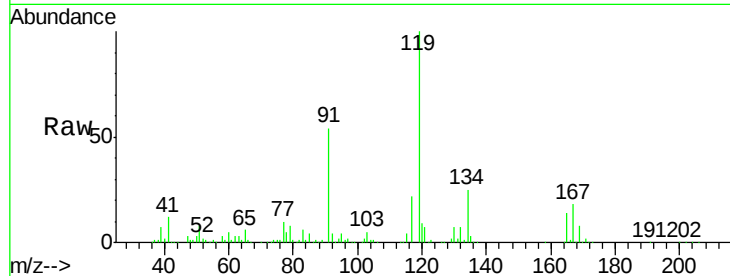
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	513145
Ion Ratio	Lower	Upper	
119	100		
91	53.9	27.9	83.6
134	25.3	12.3	36.8

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 43.295 ug/l

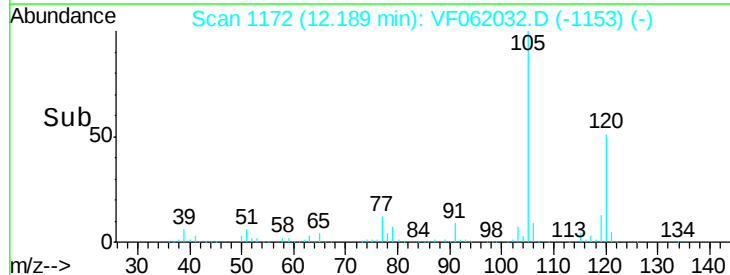
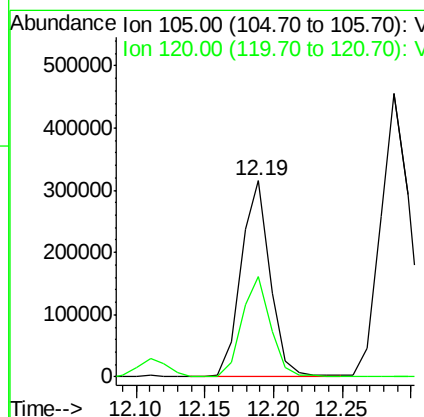
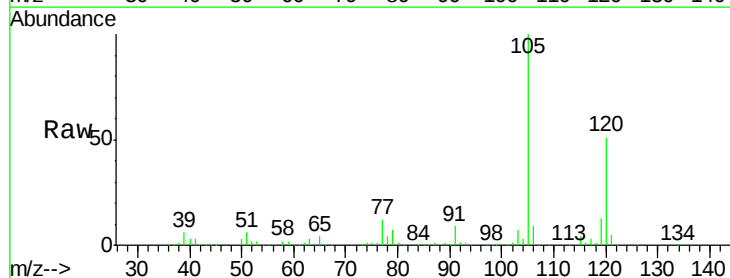
RT: 12.19 min Scan# 1172

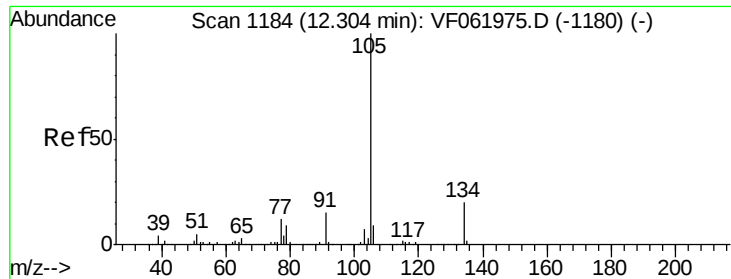
Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	105	Resp:	466341
Ion Ratio	Lower	Upper	
105	100		
120	51.1	25.9	77.8





#85

sec-Butylbenzene

Concen: 44.452 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 675445

Ion Ratio Lower Upper

105 100

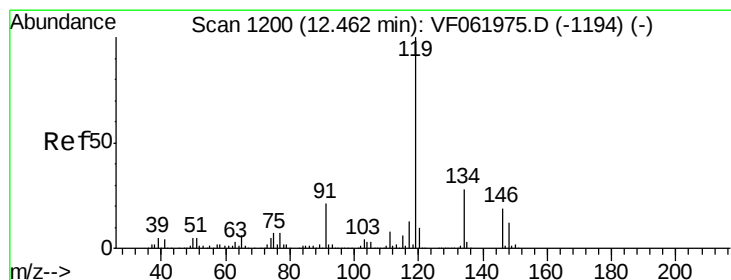
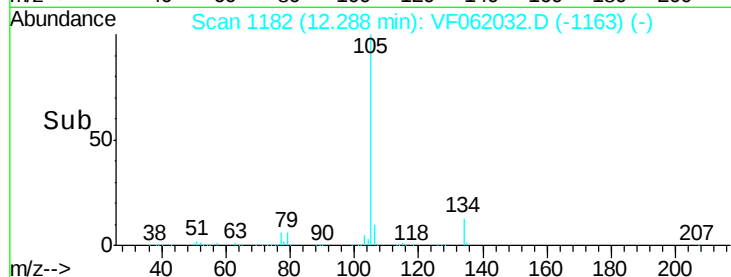
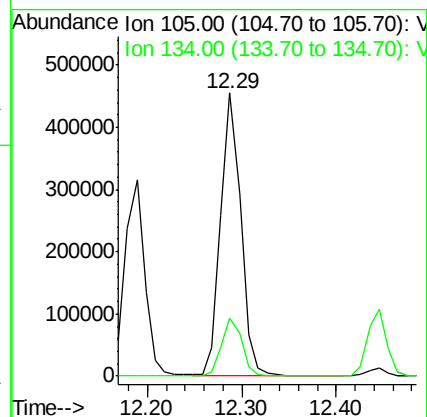
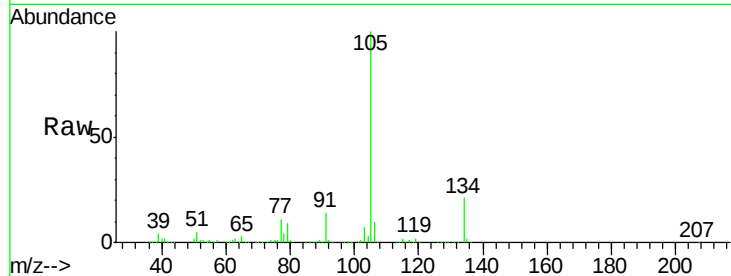
134 20.7 10.0 29.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 45.361 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

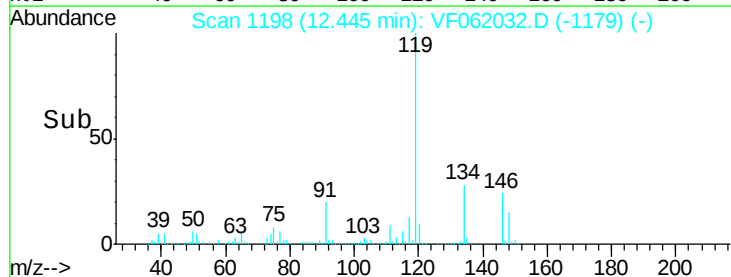
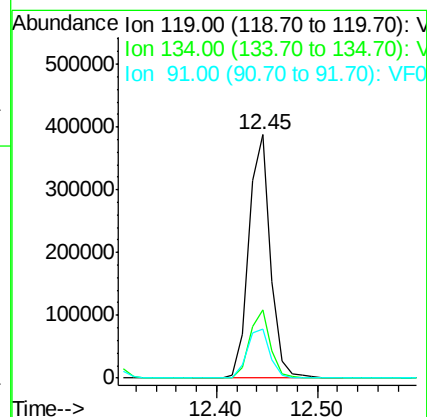
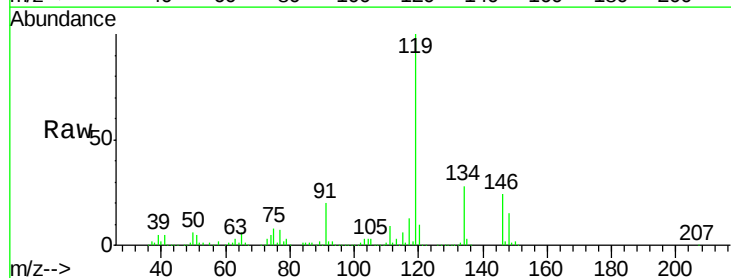
Tgt Ion:119 Resp: 575135

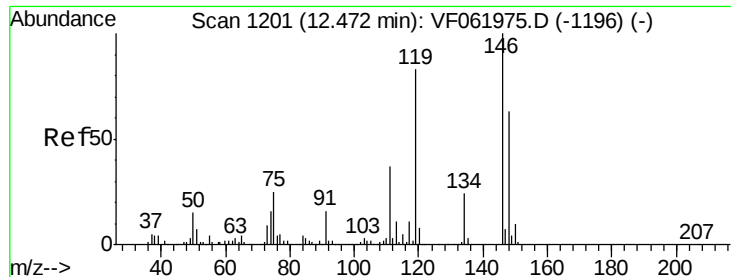
Ion Ratio Lower Upper

119 100

134 28.1 13.9 41.7

91 20.2 10.4 31.1





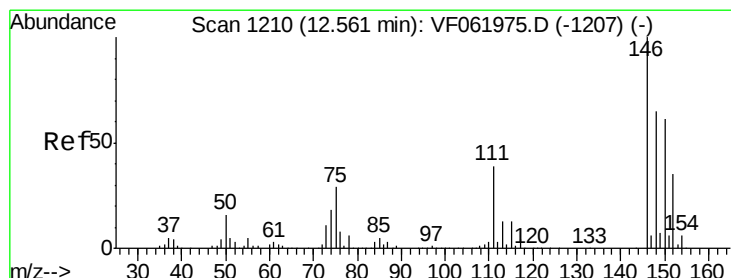
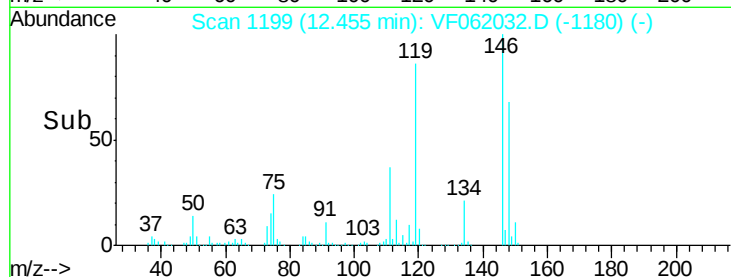
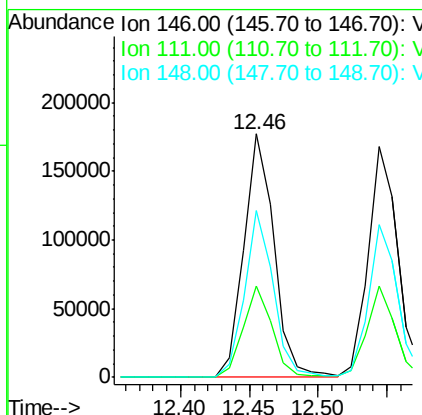
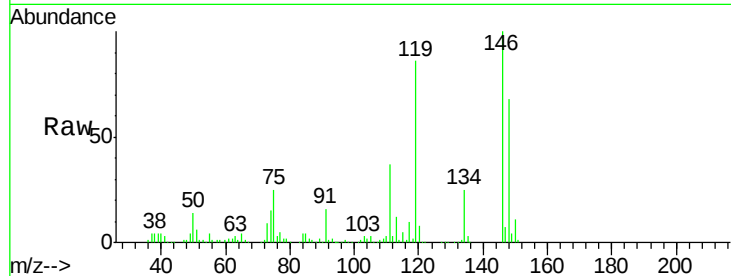
#87
 1,3-Dichlorobenzene
 Concen: 44.981 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.6	55.8
148	68.5	31.3	93.9

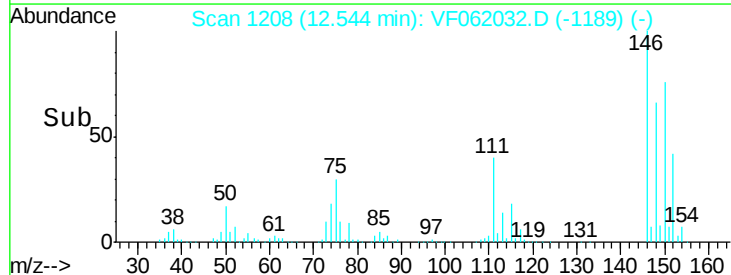
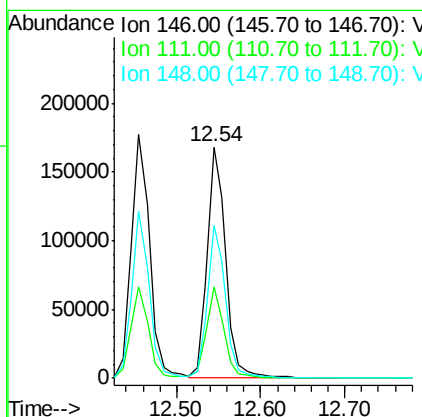
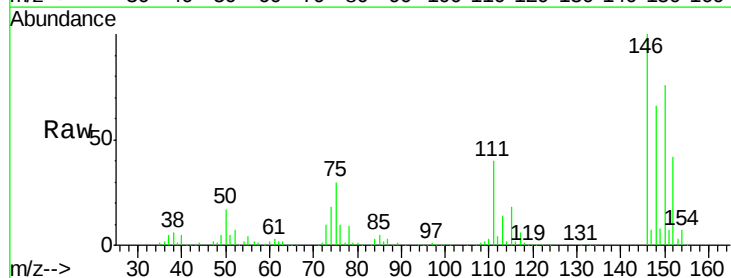
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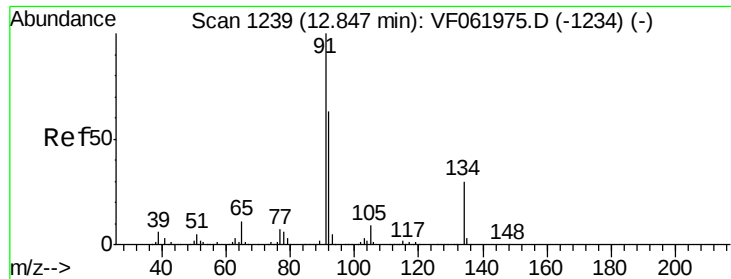
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#88
 1,4-Dichlorobenzene
 Concen: 44.079 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.4	58.1
148	66.2	32.4	97.0





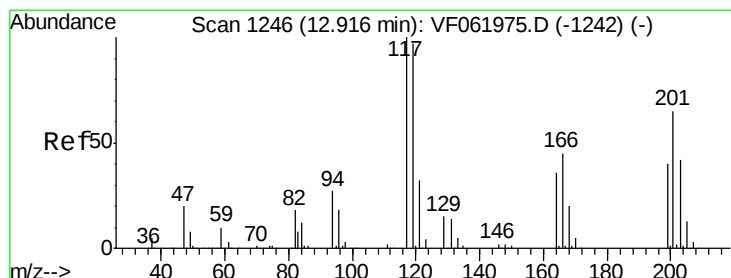
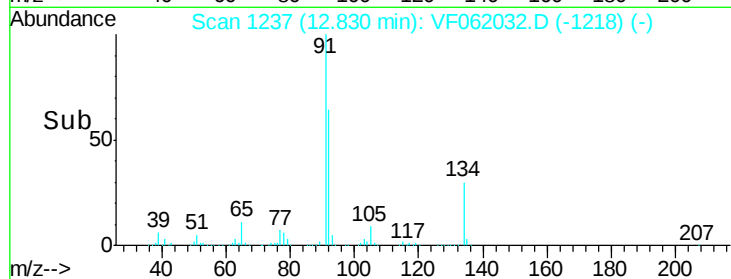
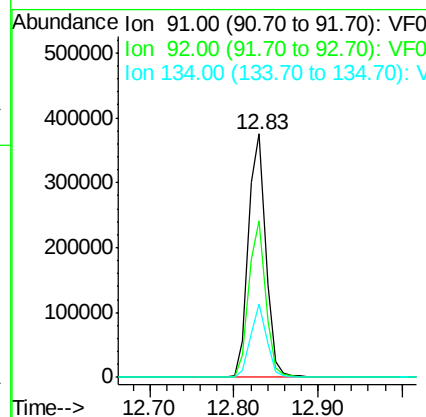
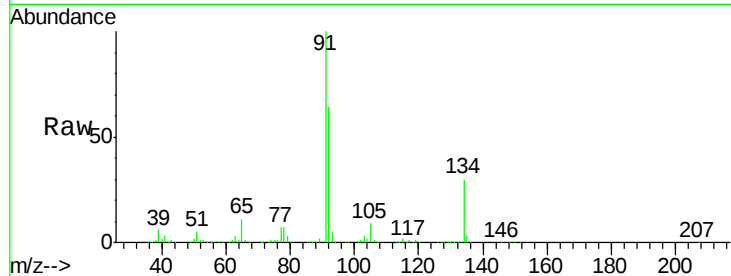
#89
n-Butylbenzene
Concen: 45.456 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		541566		
92	64.4	31.7		95.1	
134	30.4	15.1		45.3	

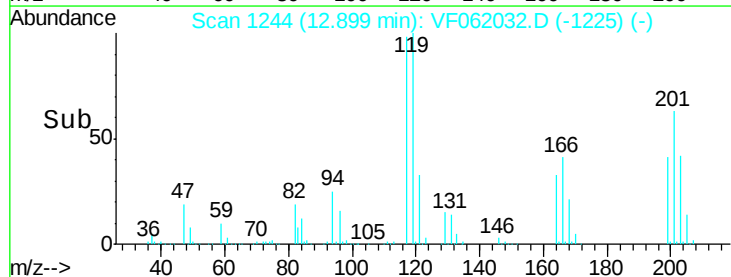
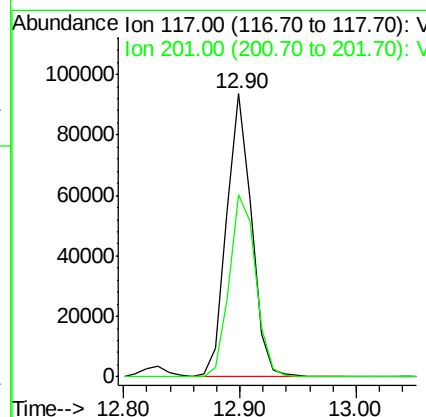
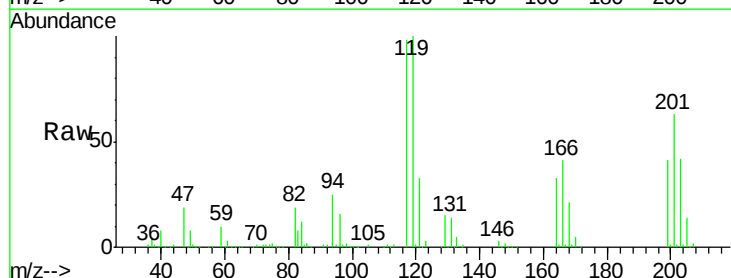
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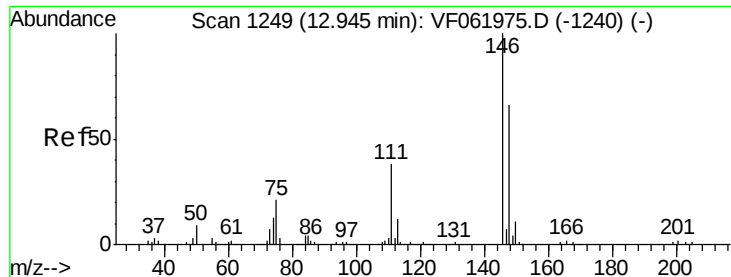
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#90
Hexachloroethane
Concen: 48.205 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF062032.D
Acq: 20 Mar 2019 10:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		139483		
201	64.4	32.5		97.5	





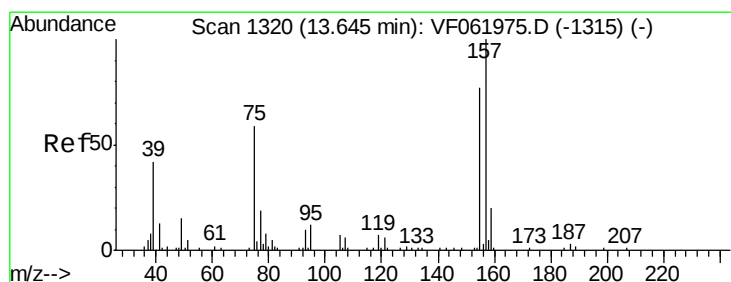
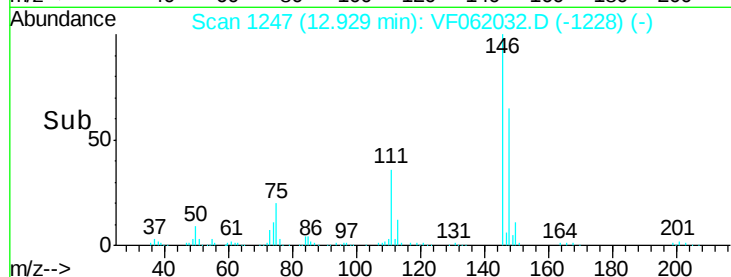
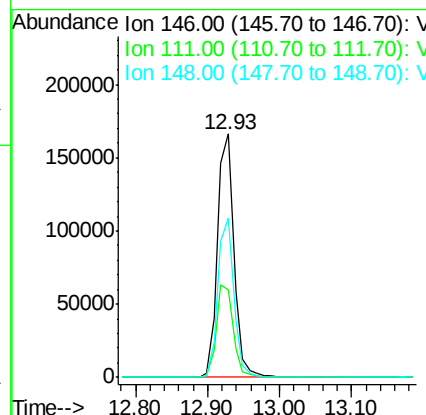
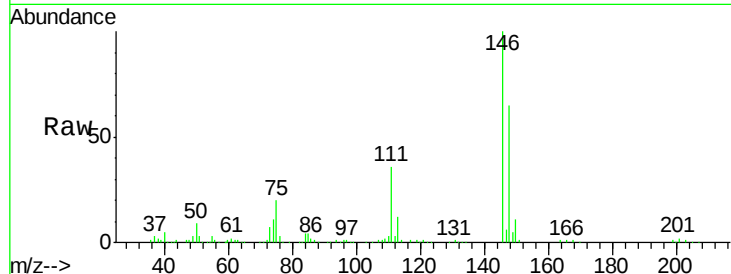
#91
 1,2-Dichlorobenzene
 Concen: 46.264 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	259633		
111	36.1	18.9	56.5	
148	65.5	32.9	98.6	

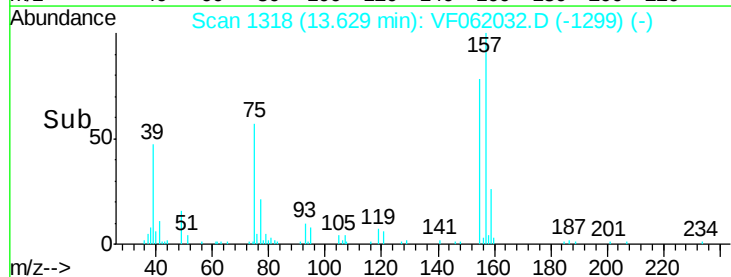
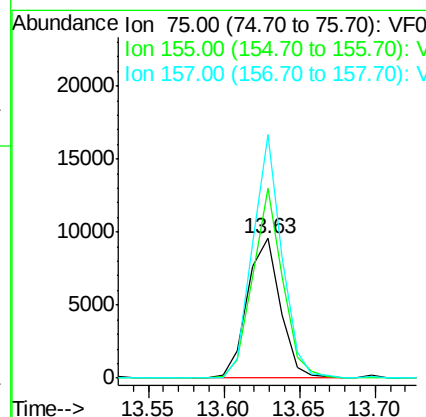
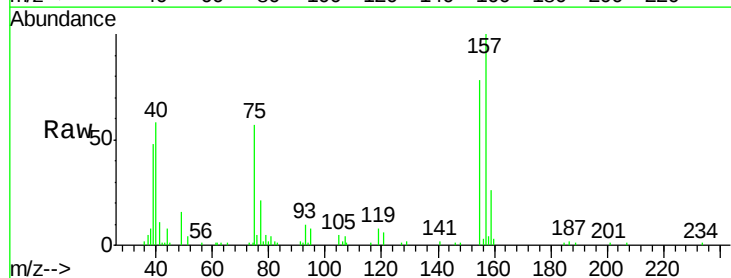
Manual Integrations
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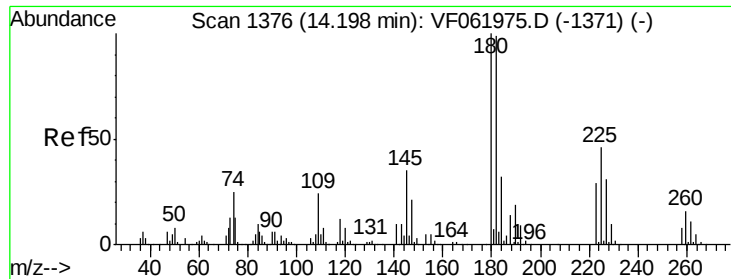
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 41.427 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	14608		
155	136.1	65.0	195.1	
157	174.7	84.7	254.0	





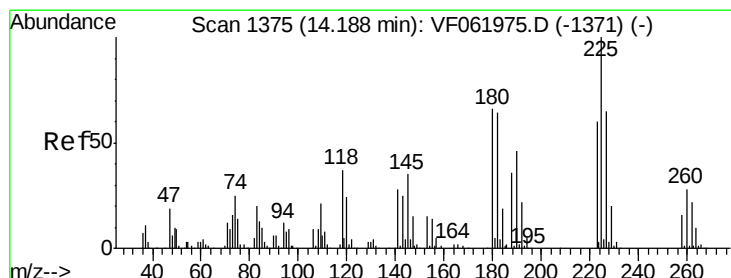
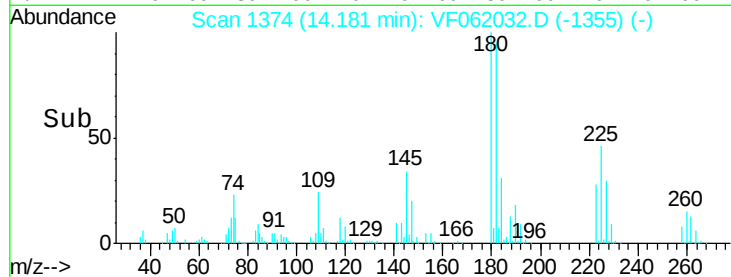
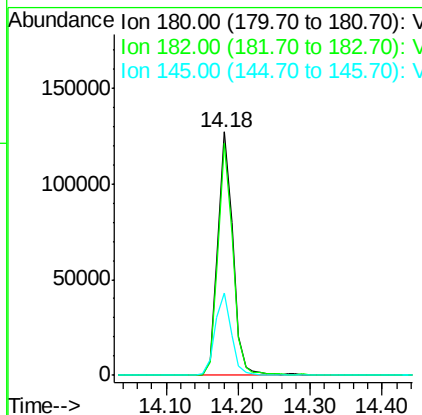
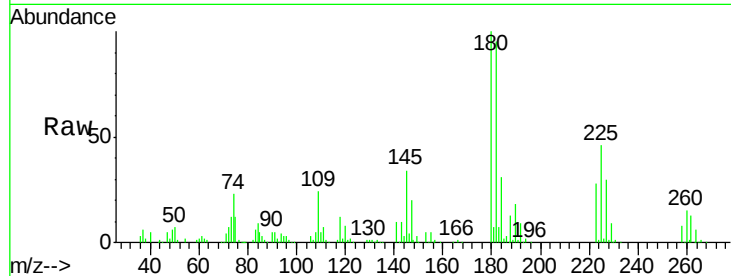
#93
 1,2,4-Trichlorobenzene
 Concen: 46.436 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	181470		
182	95.4	49.6	149.0	
145	34.0	17.5	52.5	

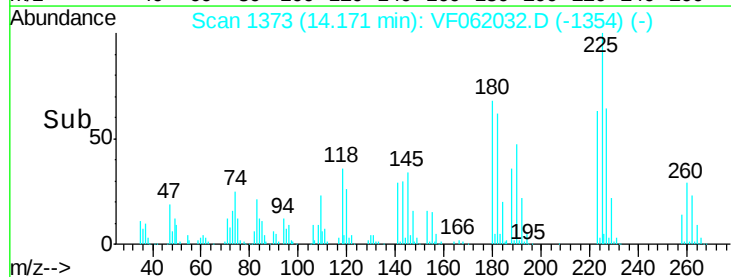
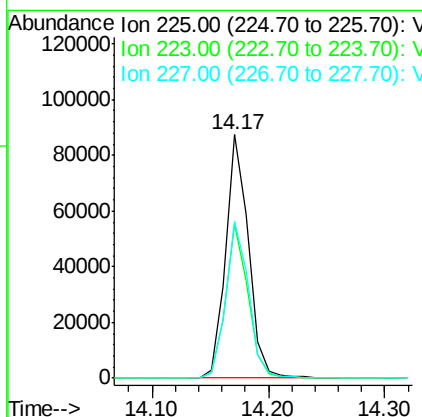
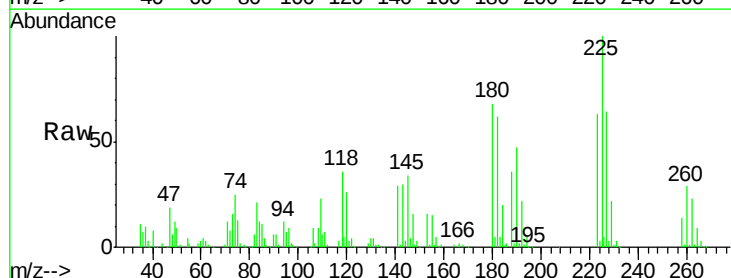
Manual Integrations
 APPROVED

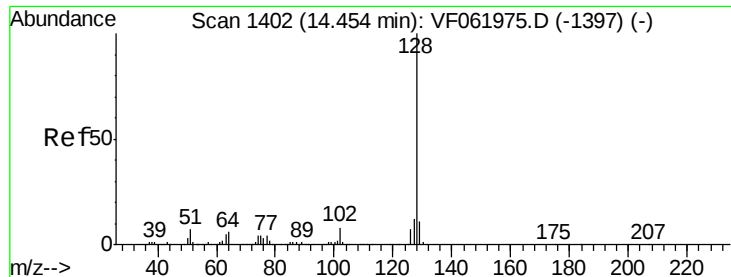
MMDadoda
 3/22/2019 4:51:23 PM



#94
 Hexachlorobutadiene
 Concen: 45.616 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.02 min
 Lab File: VF062032.D
 Acq: 20 Mar 2019 10:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	118347		
223	63.2	29.9	89.7	
227	64.5	32.4	97.2	





#95

Naphthalene

Concen: 42.148 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Instrument :

MSVOA_F

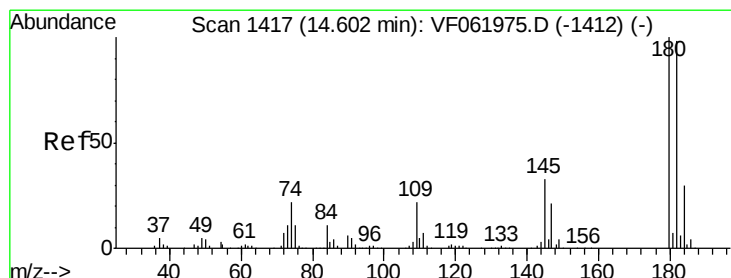
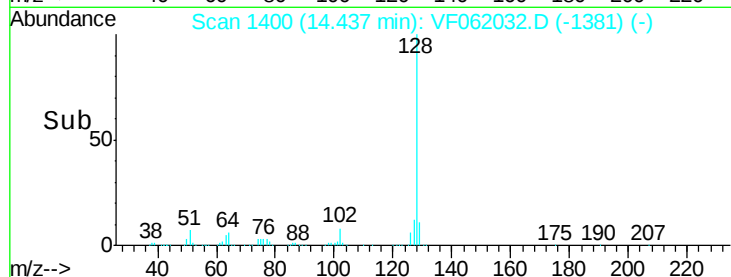
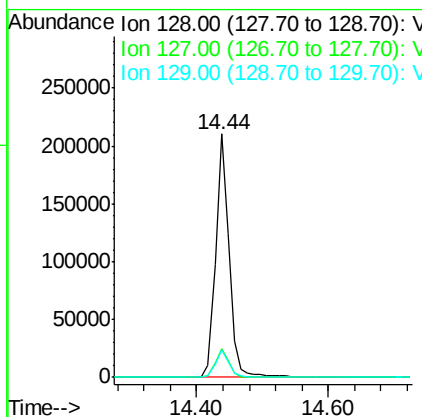
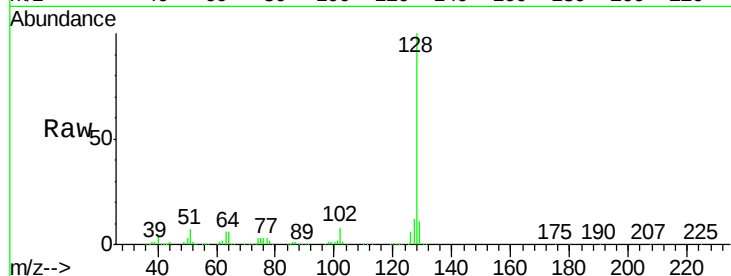
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	296246
Ion Ratio	Lower	Upper	
128	100		
127	11.7	9.3	13.9
129	11.3	9.1	13.7

Manual Integrations
APPROVED

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3/22/2019 4:51:23 PM



#96

1,2,3-Trichlorobenzene

Concen: 46.997 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062032.D

Acq: 20 Mar 2019 10:28

Tgt Ion:	180	Resp:	168971
Ion Ratio	Lower	Upper	
180	100		
182	101.2	48.9	146.8
145	32.2	16.7	50.1

