

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061801.D
 Acq On : 1 Mar 2019 12:59
 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
 3/4/2019 4:00:25 PM

Quant Time: Mar 02 02:51:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	287149	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	430497	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	366658	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	199929	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	126079	59.87	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	119.74%	
35) Dibromofluoromethane	4.09	113	178777	55.92	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.84%	
50) Toluene-d8	7.54	98	503469	54.78	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	109.56%	
62) 4-Bromofluorobenzene	11.39	95	197801	53.19	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	150293	45.576	ug/l	98
3) Chloromethane	1.10	50	160589	46.414	ug/l	99
4) Vinyl Chloride	1.14	62	162856	50.633	ug/l	91
5) Bromomethane	1.33	94	117563	53.108	ug/l	95
6) Chloroethane	1.38	64	77203	48.706	ug/l	97
7) Trichlorofluoromethane	1.47	101	210395	54.234	ug/l	96
8) Diethyl Ether	1.63	74	47629	48.718	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	132665	47.404	ug/l #	93
10) Methyl Iodide	1.90	142	258147m	48.288	ug/l	
11) Tert butyl alcohol	2.57	59	31349	257.244	ug/l	96
12) 1,1-Dichloroethene	1.79	96	117071	47.579	ug/l	86
13) Acrolein	1.99	56	42204	275.550	ug/l	98
14) Allyl chloride	2.09	41	154950	51.318	ug/l	96
15) Acrylonitrile	2.93	53	96465	223.165	ug/l	96
16) Acetone	2.23	43	137048	303.344	ug/l	94
17) Carbon Disulfide	1.83	76	347123	44.880	ug/l	96
18) Methyl Acetate	2.34	43	62855m	61.757	ug/l	
19) Methyl tert-butyl Ether	2.42	73	221569	52.689	ug/l	98
20) Methylene Chloride	2.17	84	126843m	52.522	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	125137	46.783	ug/l	95
22) Diisopropyl ether	2.78	45	378152	52.174	ug/l	98
23) Vinyl Acetate	3.18	43	827687	233.806	ug/l	98
24) 1,1-Dichloroethane	2.86	63	226724	51.691	ug/l	100
25) 2-Butanone	4.31	43	244390	247.646	ug/l	95
26) 2,2-Dichloropropane	3.58	77	105693	56.889	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	171583	48.871	ug/l	96
28) Bromochloromethane	3.70	49	106939	50.814	ug/l	97
29) Tetrahydrofuran	4.06	42	95380	212.649	ug/l	95
30) Chloroform	3.84	83	255716	51.266	ug/l	97
31) Cyclohexane	3.67	56	210386m	44.308	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	156951	48.034	ug/l	98
36) 1,1-Dichloropropene	4.26	75	198005	46.430	ug/l	95
37) Ethyl Acetate	4.09	43	84711	42.766	ug/l #	85
38) Carbon Tetrachloride	3.97	117	153564	52.148	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	246145	48.804	ug/l	98
40) Benzene	4.62	78	534169	47.887	ug/l	97
41) Methacrylonitrile	4.73	41	47014	46.411	ug/l	93
42) 1,2-Dichloroethane	4.92	62	135490	50.778	ug/l	94
43) Isopropyl Acetate	6.94	43	105037	44.799	ug/l #	90
44) Trichloroethene	5.49	130	172914	47.936	ug/l	97
45) 1,2-Dichloropropane	6.21	63	123933	45.964	ug/l	97
46) Dibromomethane	6.07	93	81256	48.945	ug/l	91
47) Bromodichloromethane	6.36	83	183647	50.515	ug/l	98
48) Methyl methacrylate	6.70	41	66970	47.463	ug/l	94
49) 1,4-Dioxane	6.69	88	12176	917.976	ug/l	95
51) 4-Methyl-2-Pentanone	8.24	43	371699	221.867	ug/l	99
52) Toluene	7.61	92	320620	47.393	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	149816	49.515	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	198233	49.187	ug/l	91
55) 1,1,2-Trichloroethane	8.47	97	95517	48.055	ug/l	95
56) Ethyl methacrylate	8.60	69	97126	43.889	ug/l	93
57) 1,3-Dichloropropane	8.84	76	154955	46.706	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.28	63	81644	213.828	ug/l	97
59) 2-Hexanone	9.47	43	279977	238.408	ug/l	99
60) Dibromochloromethane	8.70	129	137653	49.755	ug/l	96
61) 1,2-Dibromoethane	8.97	107	103189	47.864	ug/l	97
64) Tetrachloroethene	8.14	164	142814	47.652	ug/l	98
65) Chlorobenzene	9.77	112	366926	49.316	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	150823	51.732	ug/l	97
67) Ethyl Benzene	9.88	91	623747	50.411	ug/l	97
68) m/p-Xylenes	10.11	106	472204	99.718	ug/l	100
69) o-Xylene	10.69	106	247754	49.032	ug/l	92
70) Styrene	10.77	104	346391	48.458	ug/l	100
71) Bromoform	10.76	173	76110	48.075	ug/l	97
73) Isopropylbenzene	11.11	105	682499	47.946	ug/l	100
74) N-amyl acetate	11.36	43	161613	47.302	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.68	83	125559	49.235	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	81696	47.119	ug/l	97
77) Bromobenzene	11.48	156	172145	48.952	ug/l	95
78) n-propylbenzene	11.58	91	774596	47.421	ug/l	99
79) 2-Chlorotoluene	11.71	91	460697	50.359	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	553615	48.662	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	40120m	48.266	ug/l	
82) 4-Chlorotoluene	11.88	91	460615	48.510	ug/l	99
83) tert-Butylbenzene	12.12	119	618215	49.061	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	567885	50.243	ug/l	100
85) sec-Butylbenzene	12.29	105	781689	47.971	ug/l	98
86) p-Isopropyltoluene	12.45	119	684290	50.037	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	327830	47.819	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	326578	49.533	ug/l	97
89) n-Butylbenzene	12.83	91	639040	49.486	ug/l	94
90) Hexachloroethane	12.90	117	164395	51.687	ug/l	89
91) 1,2-Dichlorobenzene	12.93	146	312827	47.974	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	20632	51.028	ug/l	73

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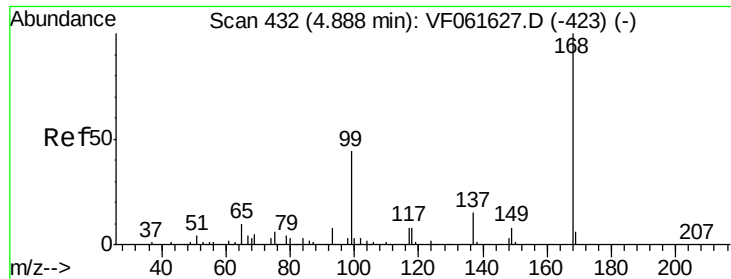
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	221872	47.470	ug/l	94
94) Hexachlorobutadiene	14.17	225	142004	49.194	ug/l	99
95) Naphthalene	14.44	128	397220	48.574	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	206617	48.163	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

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Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 287149

Ion Ratio Lower Upper

168 100

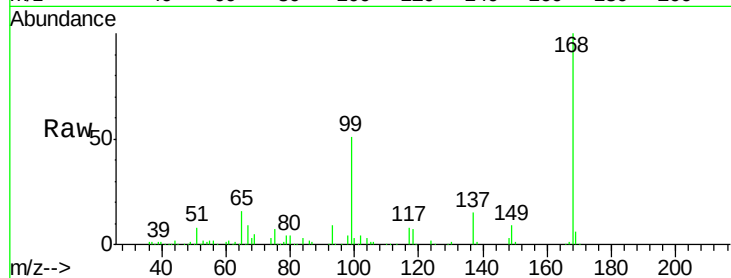
99 50.9 34.9 52.3

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

4.85

100000

80000

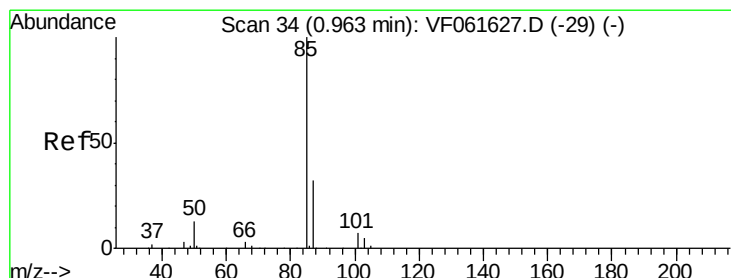
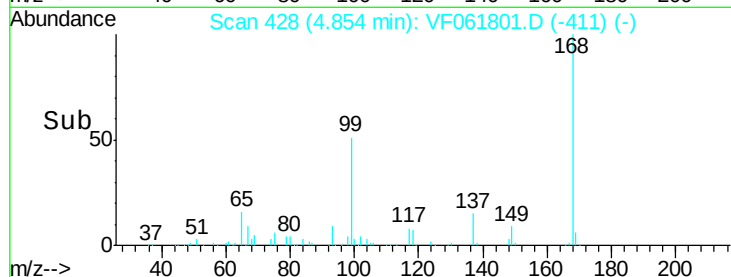
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.576 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061801.D

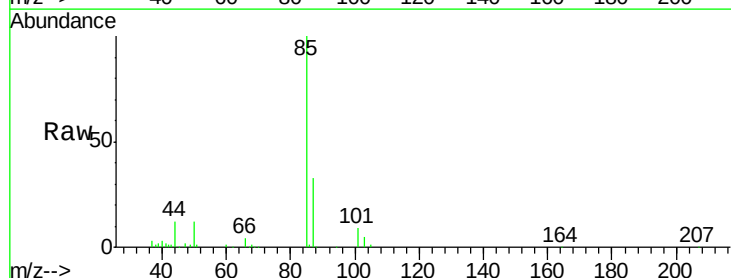
Acq: 1 Mar 2019 12:59

Tgt Ion: 85 Resp: 150293

Ion Ratio Lower Upper

85 100

87 33.3 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

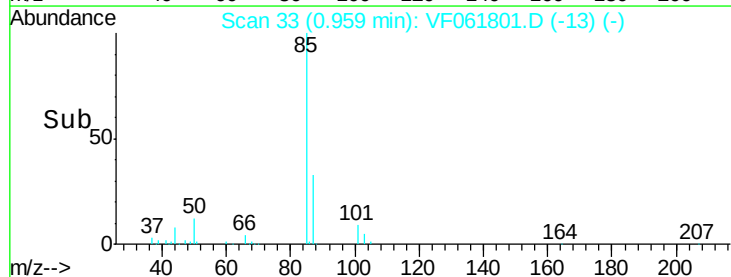
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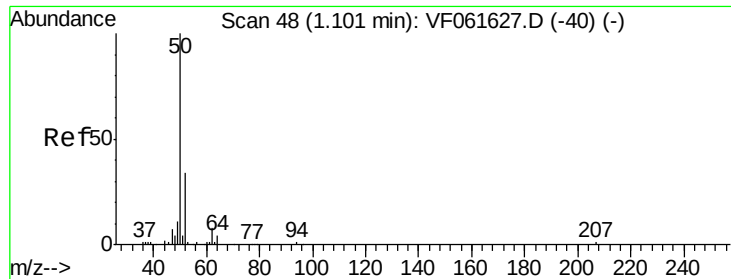
20000

10000

0

Time-->





#3

Chloromethane

Concen: 46.414 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 160589

Ion Ratio Lower Upper

50 100

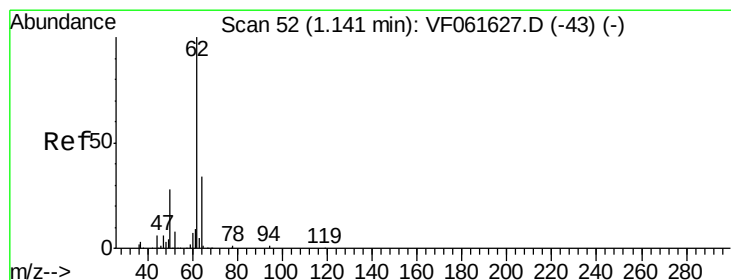
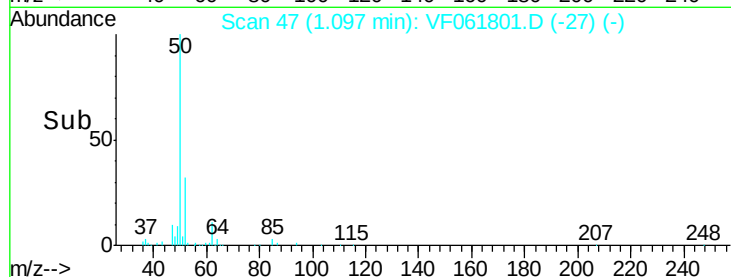
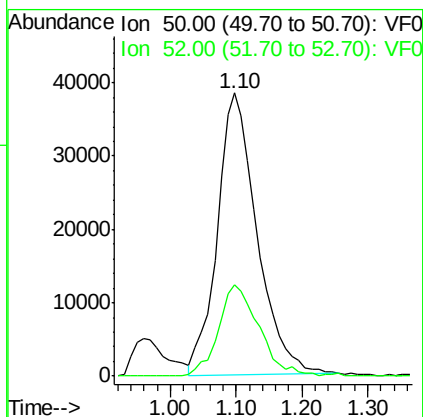
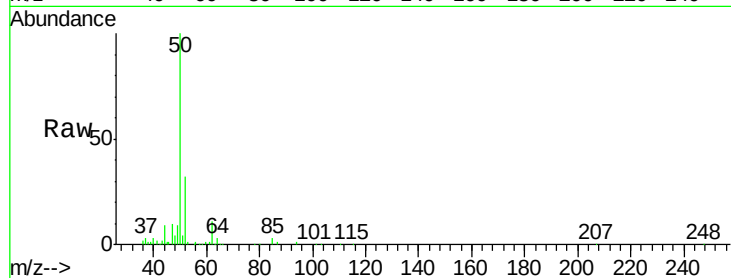
52 32.3 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 50.633 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061801.D

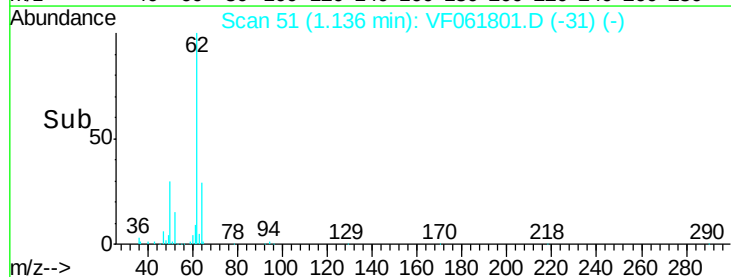
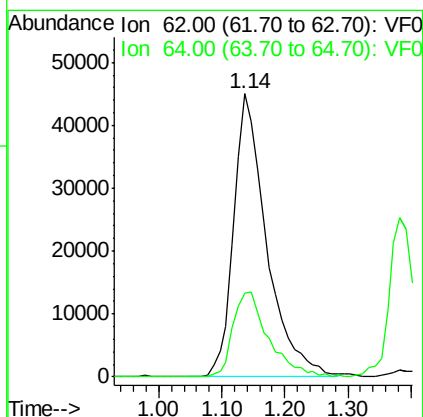
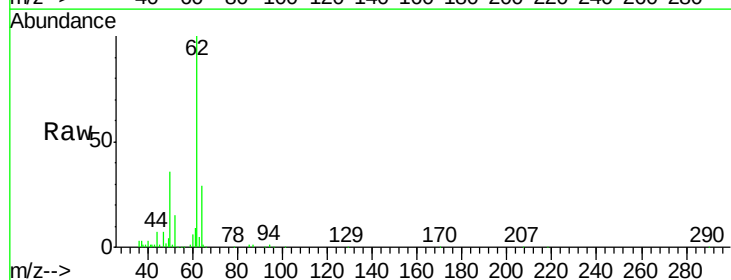
Acq: 1 Mar 2019 12:59

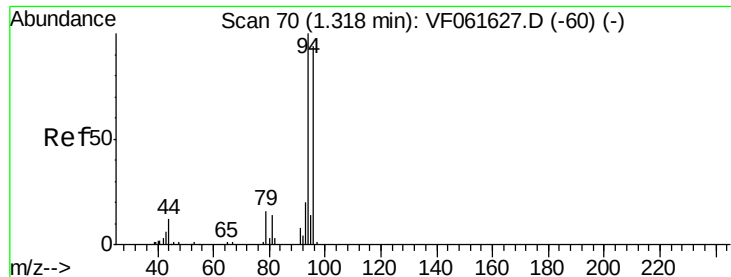
Tgt Ion: 62 Resp: 162856

Ion Ratio Lower Upper

62 100

64 29.5 27.5 41.3





#5

Bromomethane

Concen: 53.108 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

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ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 117563

Ion Ratio Lower Upper

94 100

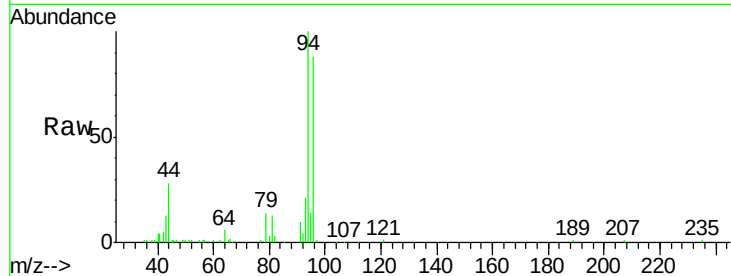
96 88.0 74.6 112.0

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

25000

20000

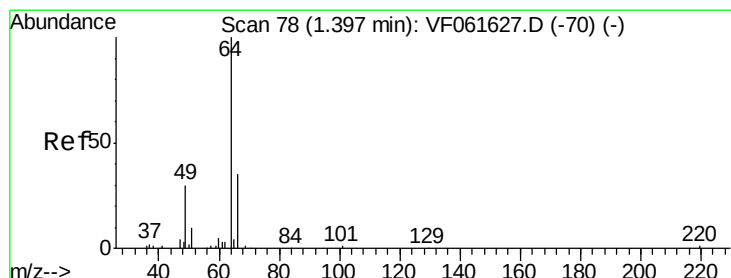
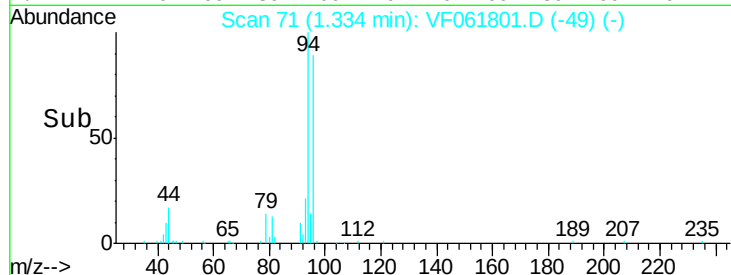
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 48.706 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061801.D

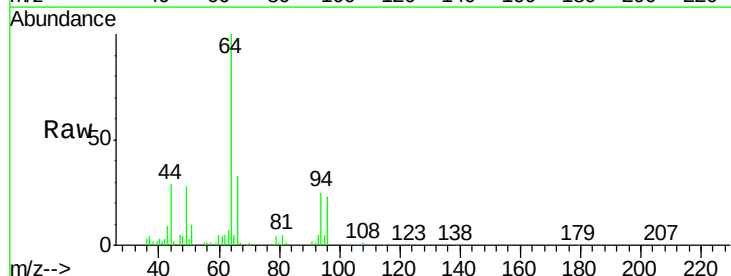
Acq: 1 Mar 2019 12:59

Tgt Ion: 64 Resp: 77203

Ion Ratio Lower Upper

64 100

66 33.3 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.38

30000

25000

20000

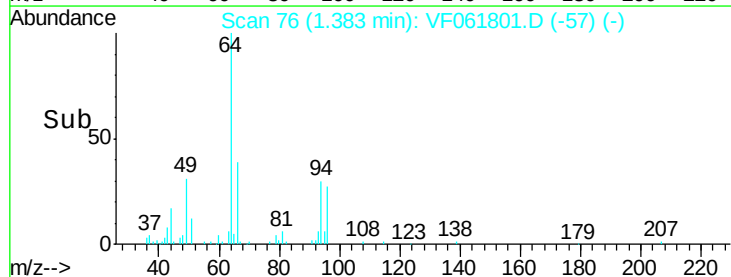
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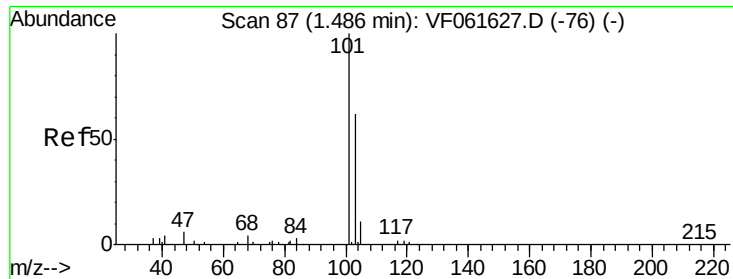
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5000

0

Time-->





#7

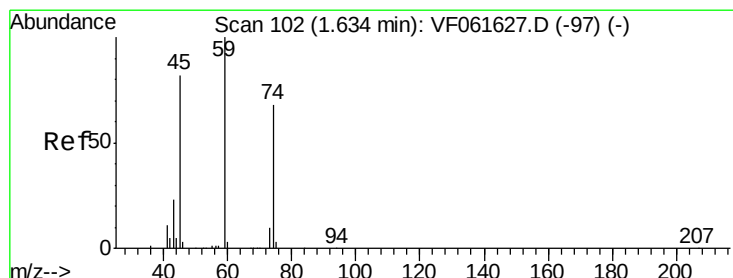
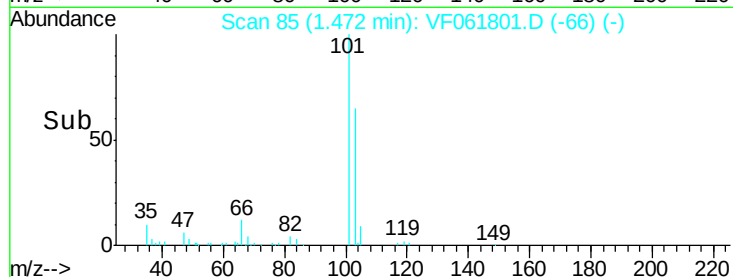
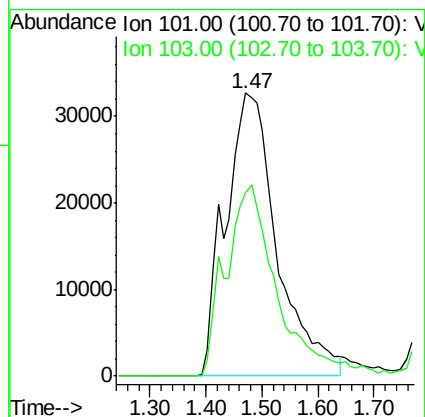
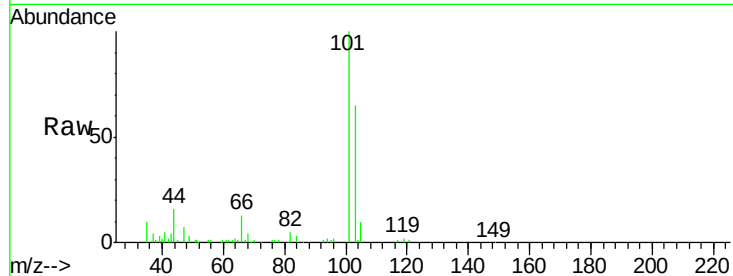
Trichlorofluoromethane
Concen: 54.234 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
210395	101	100			
	103	64.6	49.3	73.9	

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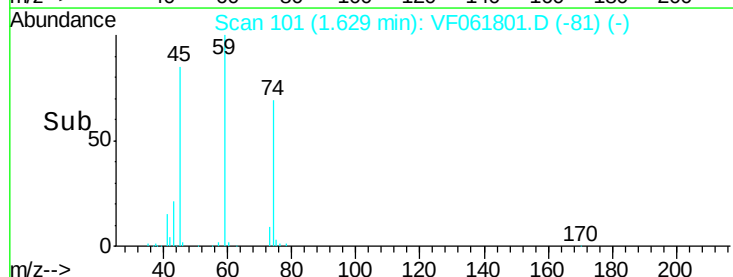
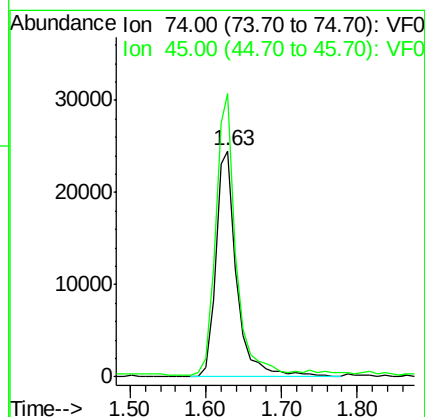
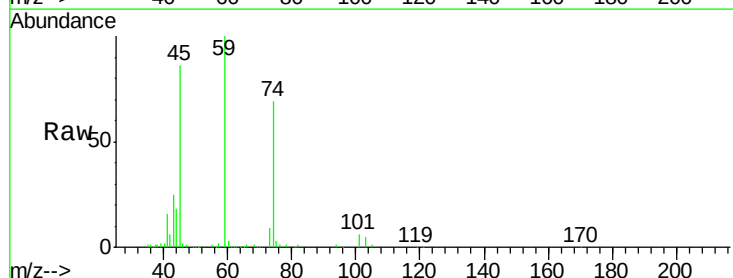
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3/4/2019 4:00:25 PM

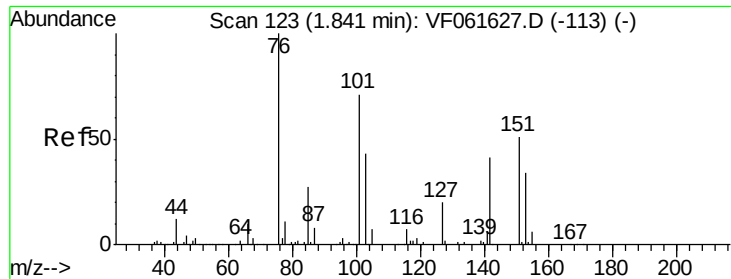


#8

Diethyl Ether
Concen: 48.718 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
47629	74	100			
	45	125.1	60.8	182.3	





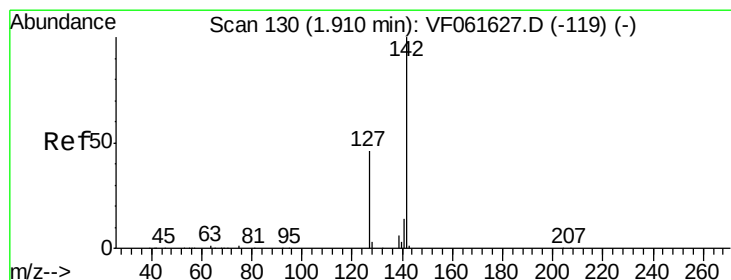
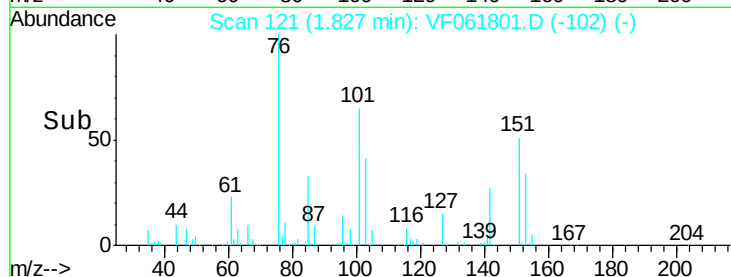
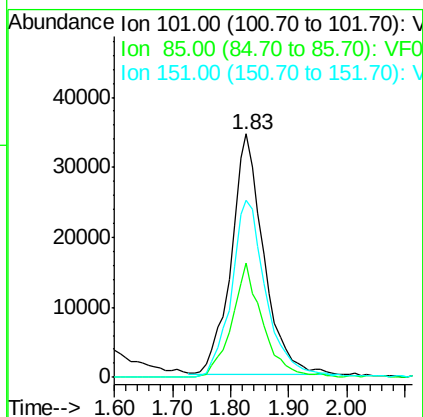
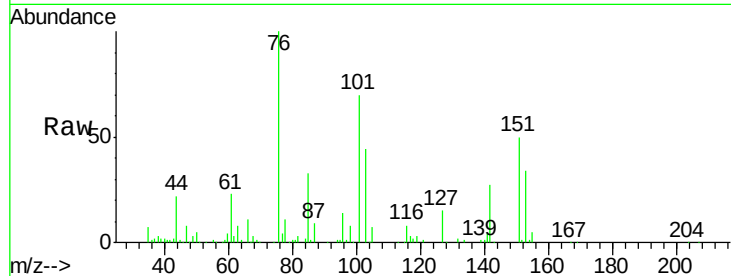
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.404 ug/l
 RT: 1.83 min Scan# 121
 Delta R.T. -0.01 min
 Lab File: VF061801.D
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Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	47.0	29.8	44.6#
151	72.5	56.3	84.5

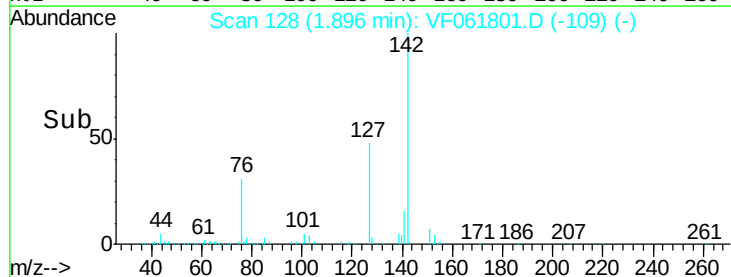
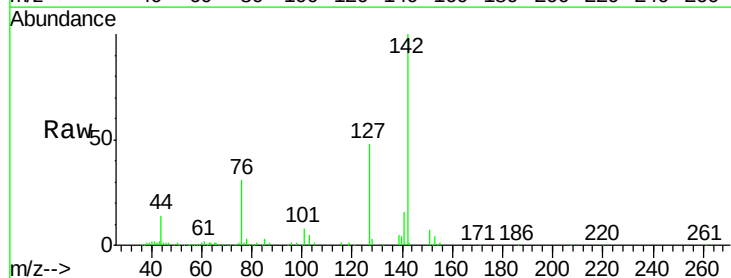
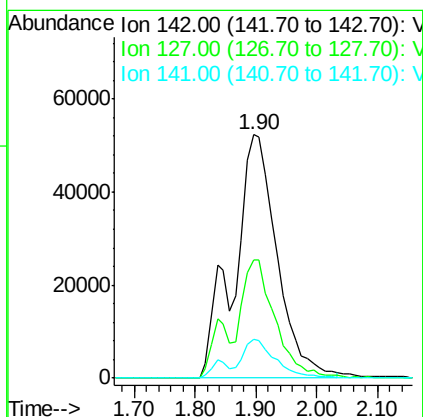
Manual Integrations
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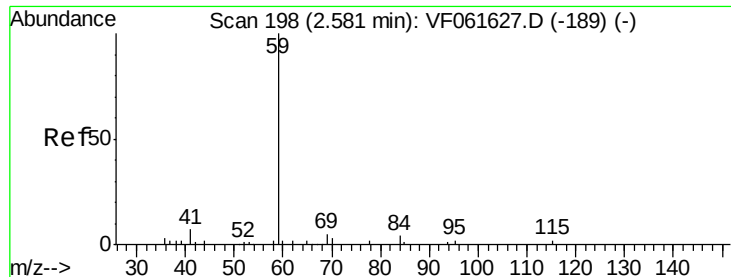
MMDadoda
 3/4/2019 4:00:25 PM



#10
 Methyl Iodide
 Concen: 48.288 ug/l m
 RT: 1.90 min Scan# 128
 Delta R.T. -0.01 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
127	48.4	36.6	55.0
141	16.1	11.0	16.6





#11

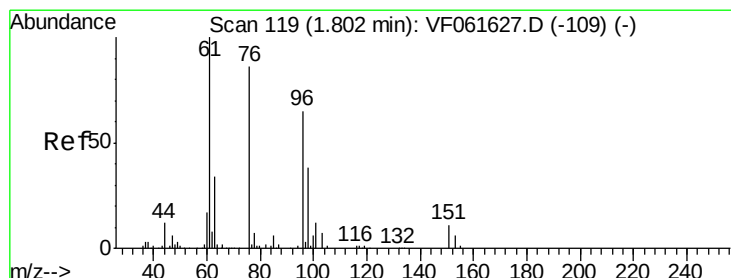
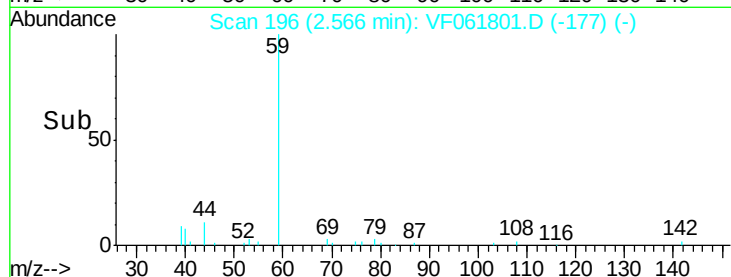
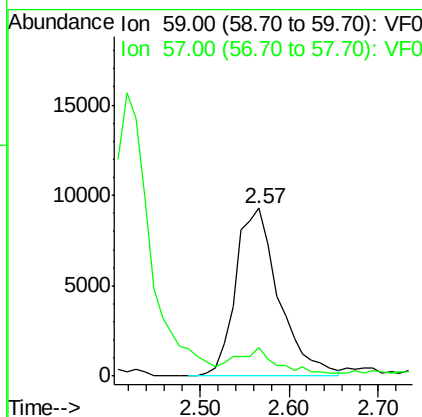
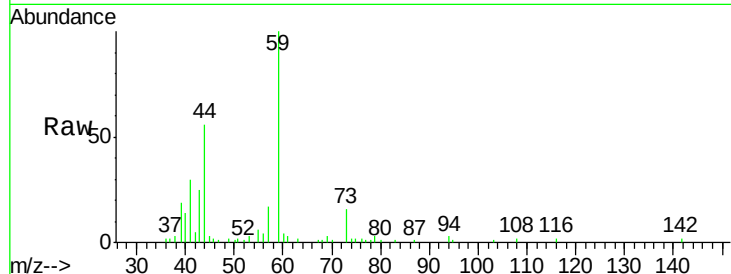
Tert butyl alcohol
Concen: 257.244 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	31349
Ion Ratio	100	Lower	Upper
57	17.5	12.5	18.7

Manual Integrations
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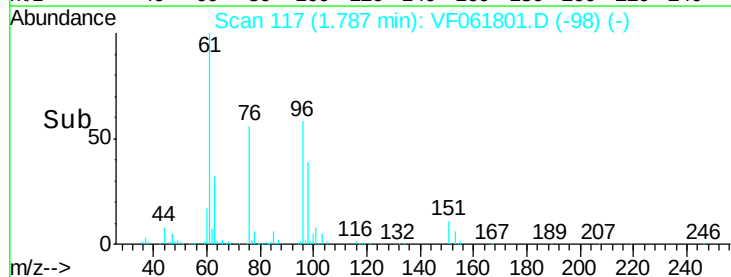
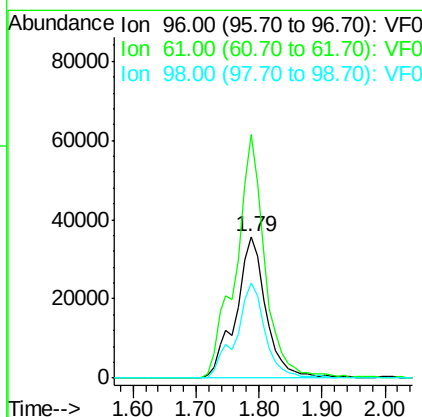
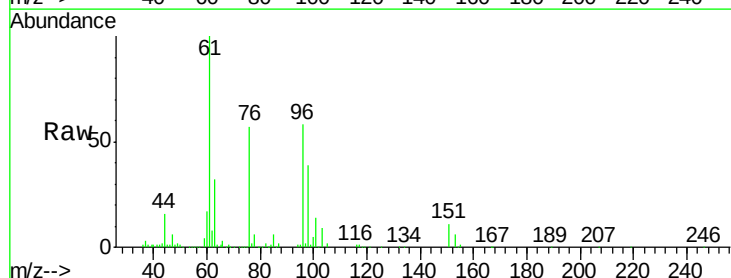
MMDadoda
3/4/2019 4:00:25 PM

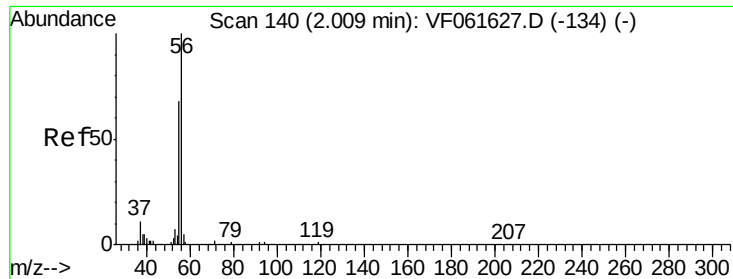


#12

1,1-Dichloroethene
Concen: 47.579 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	96	Resp	117071
Ion Ratio	100	Lower	Upper
61	171.8	122.6	184.0
98	67.4	47.2	70.8





#13

Acrolein

Concen: 275.550 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 42204

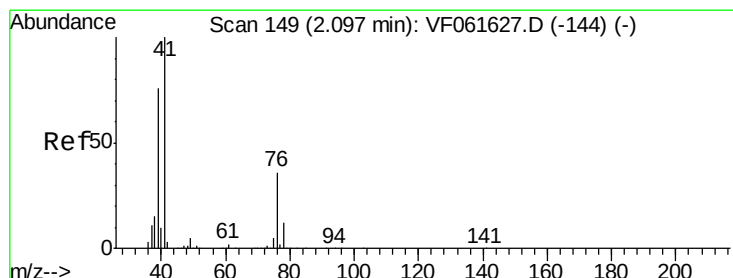
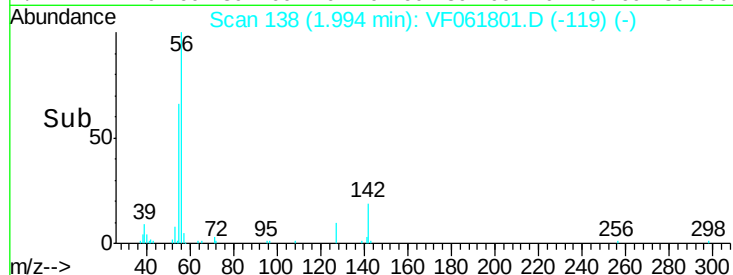
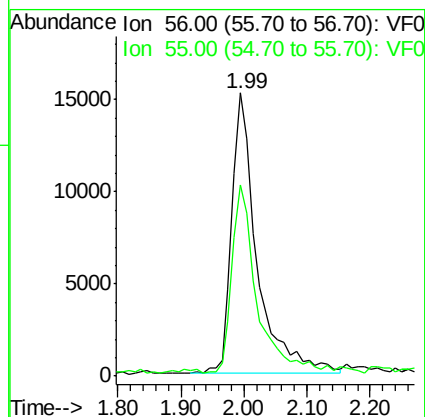
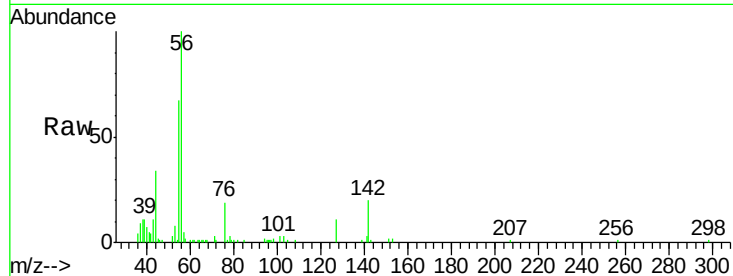
Ion Ratio Lower Upper

56 100

55 67.4 55.0 82.6

Manual Integrations
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MMDadoda
3/4/2019 4:00:25 PM



#14

Allyl chloride

Concen: 51.318 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

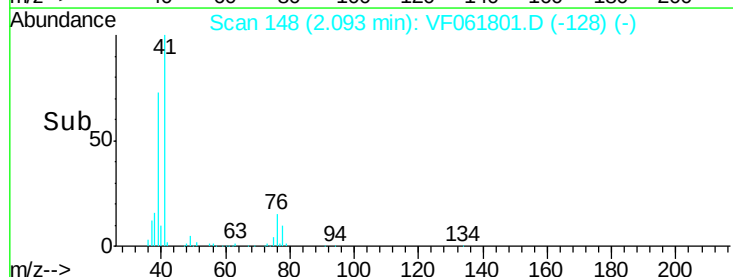
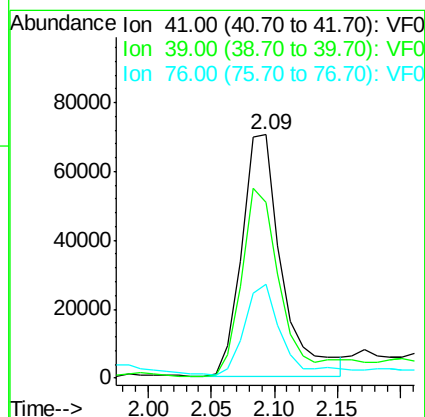
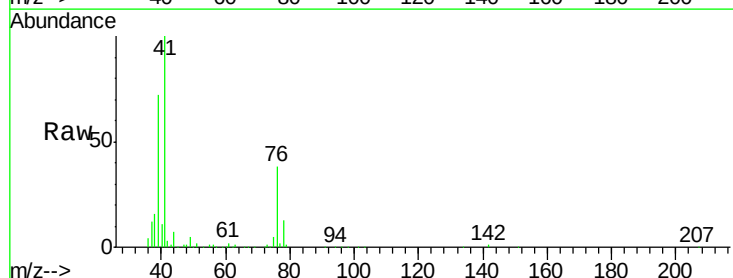
Tgt Ion: 41 Resp: 154950

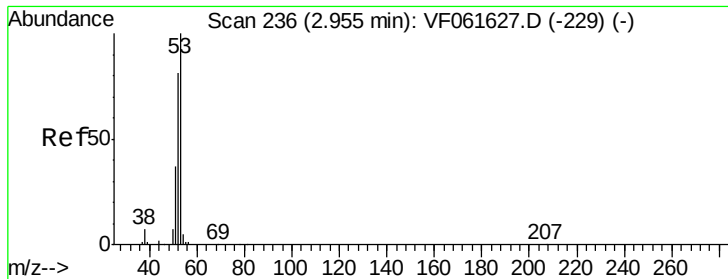
Ion Ratio Lower Upper

41 100

39 72.3 61.6 92.4

76 38.4 30.3 45.5





#15

Acrylonitrile

Concen: 223.165 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

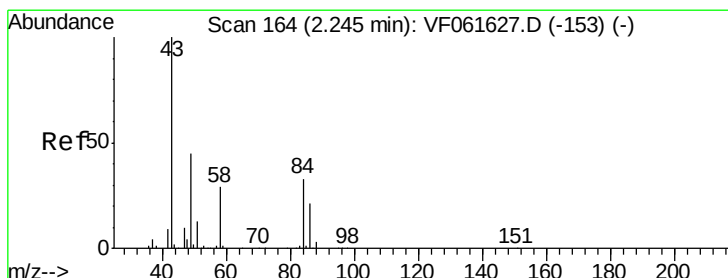
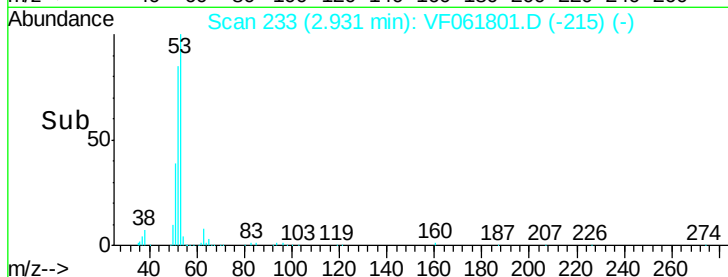
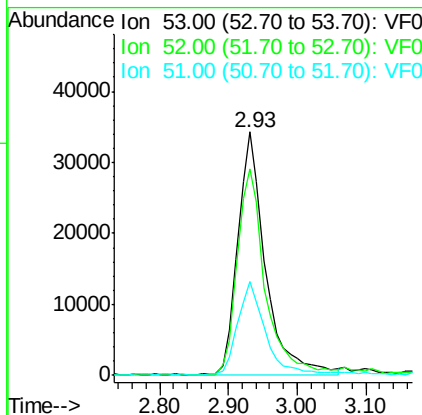
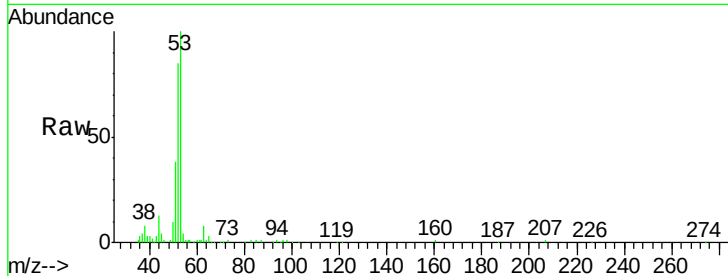
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	96465
Ion	Ratio	Lower	Upper
53	100		
52	84.7	64.6	97.0
51	38.4	29.8	44.8

Manual Integrations
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MMDadoda
3/4/2019 4:00:25 PM



#16

Acetone

Concen: 303.344 ug/l

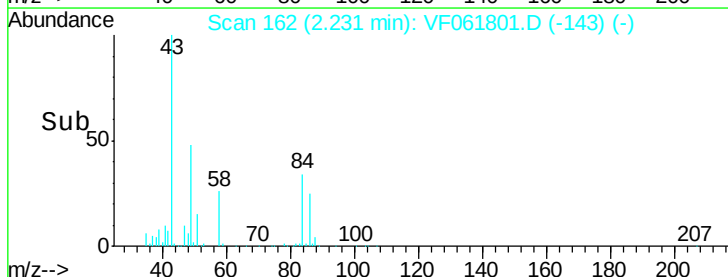
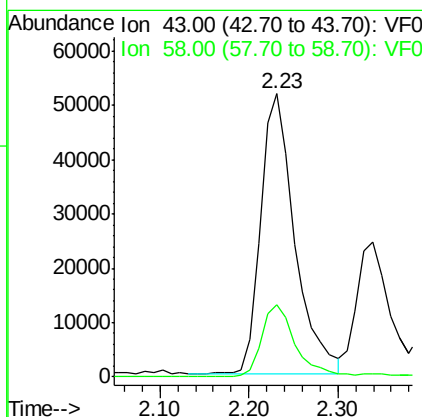
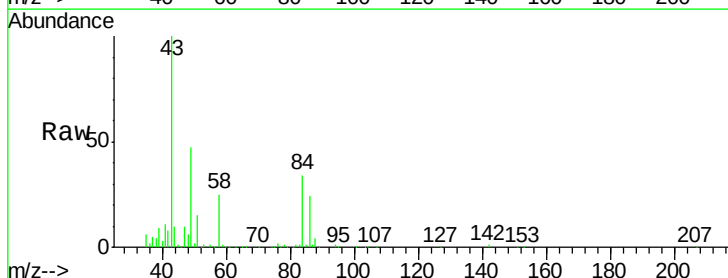
RT: 2.23 min Scan# 162

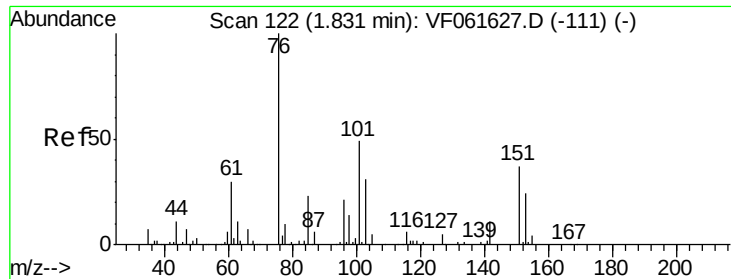
Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	43	Resp:	137048
Ion	Ratio	Lower	Upper
43	100		
58	25.4	22.9	34.3





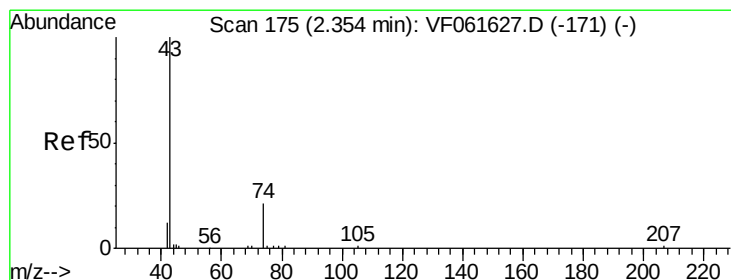
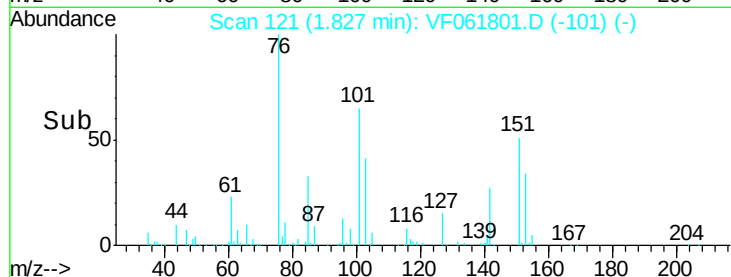
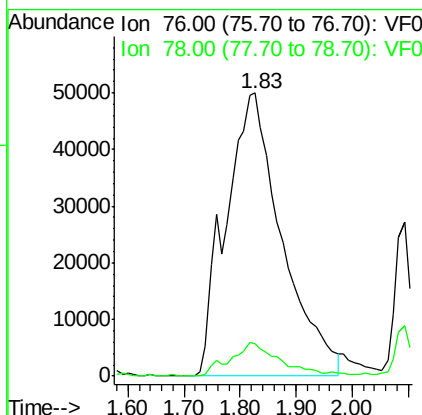
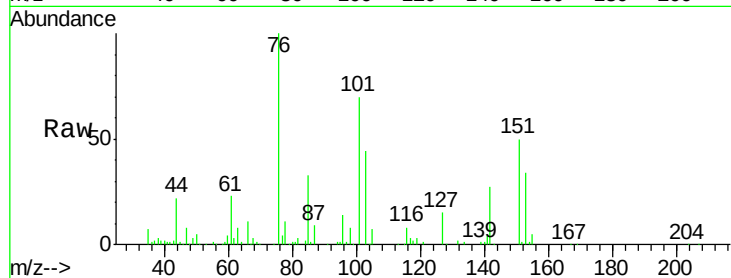
#17
Carbon Disulfide
Concen: 44.880 ug/l
RT: 1.83 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.4	7.9	11.9

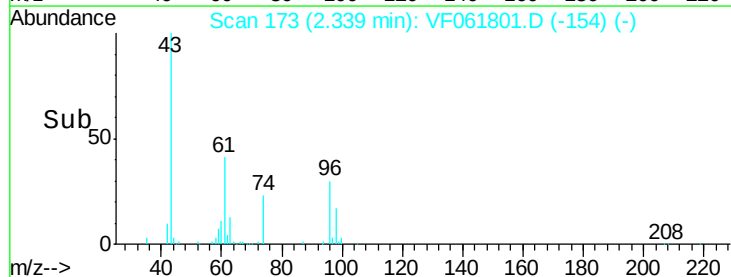
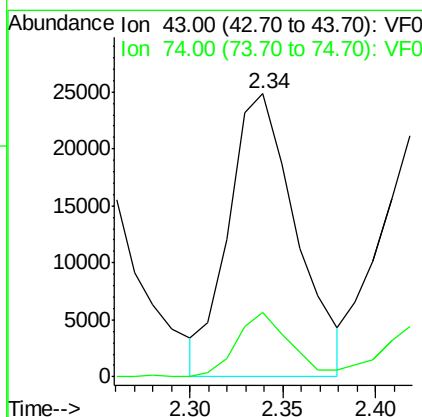
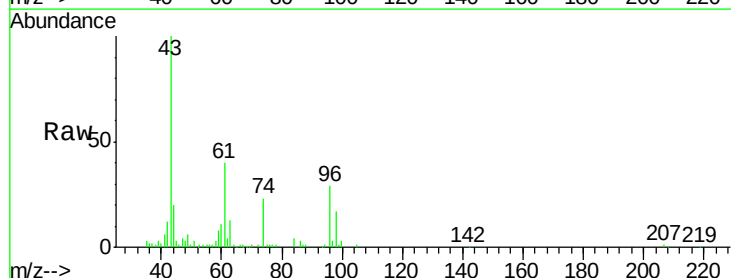
Manual Integrations
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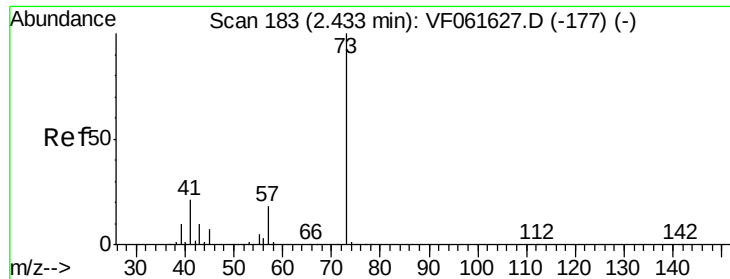
MMDadoda
3/4/2019 4:00:25 PM



#18
Methyl Acetate
Concen: 61.757 ug/l m
RT: 2.34 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	14.6	21.8#





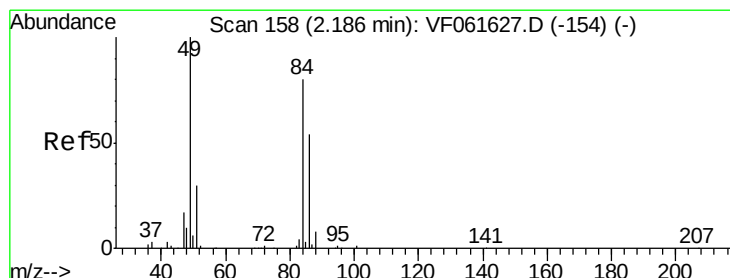
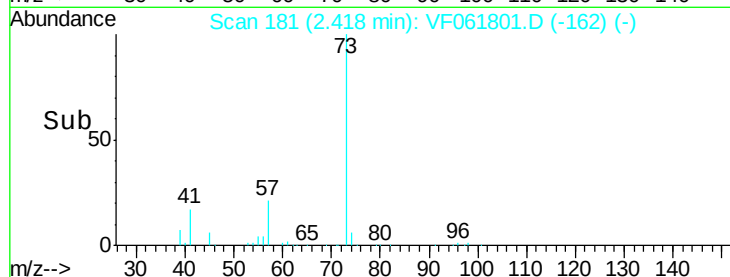
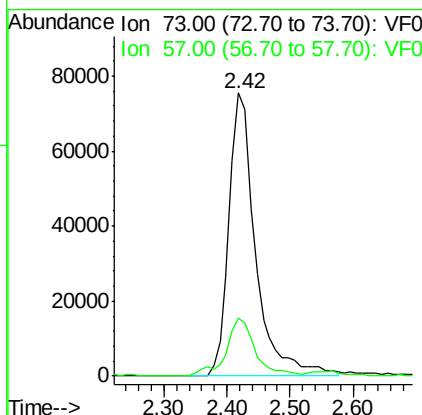
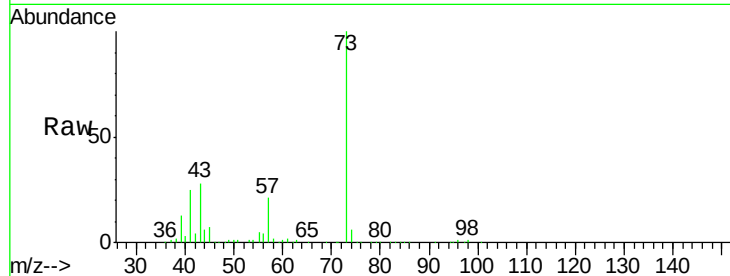
#19
Methyl tert-butyl Ether
Concen: 52.689 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 221569
Ion Ratio Lower Upper
73 100
57 20.7 15.8 23.8

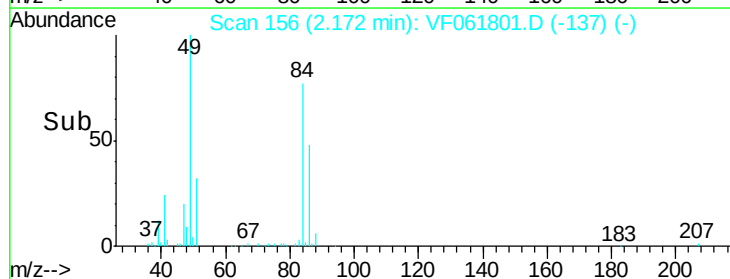
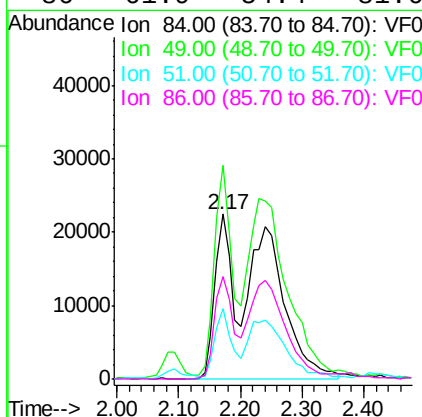
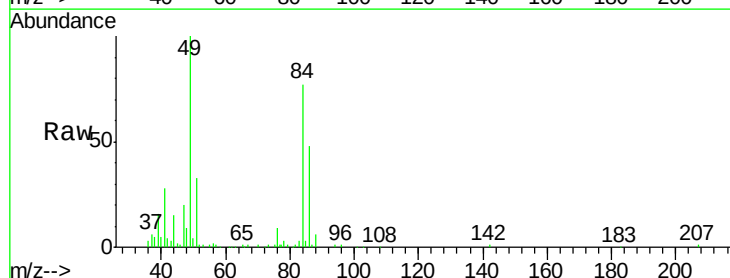
Manual Integrations
APPROVED

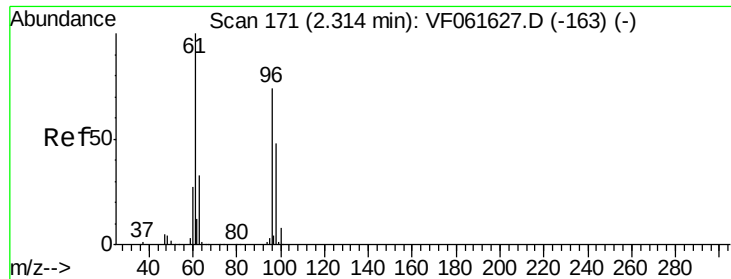
MMDadoda
3/4/2019 4:00:25 PM



#20
Methylene Chloride
Concen: 52.522 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion: 84 Resp: 126843
Ion Ratio Lower Upper
84 100
49 129.5 101.8 152.8
51 42.5 31.1 46.7
86 61.9 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 46.783 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

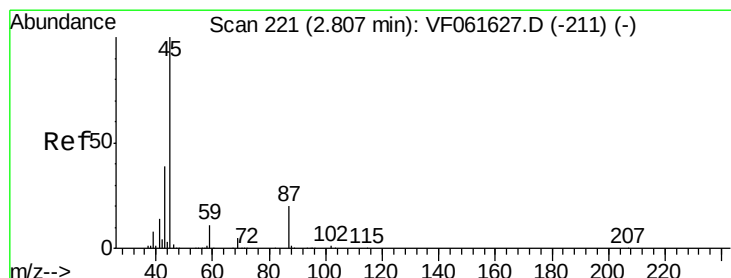
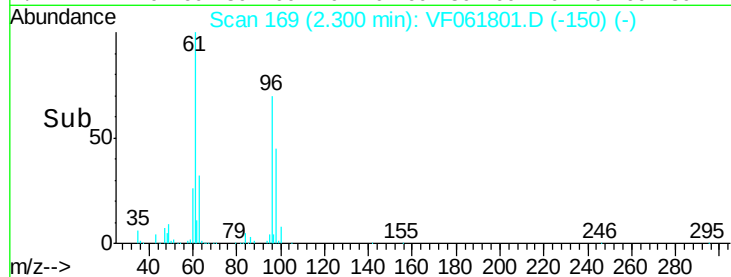
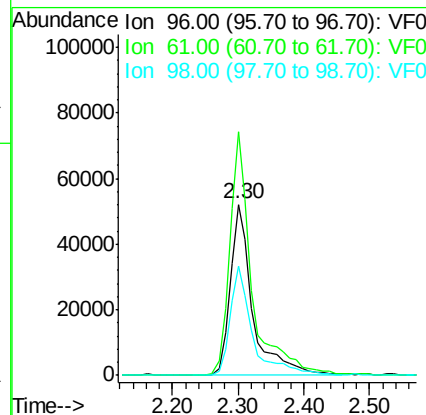
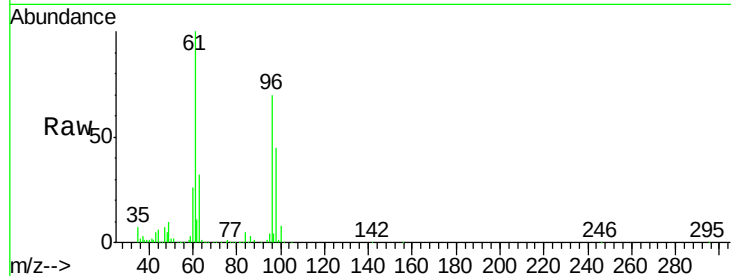
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	125137
Ion	Ratio	Lower	Upper
96	100		
61	142.5	108.2	162.4
98	63.7	52.2	78.2

Manual Integrations
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3/4/2019 4:00:25 PM



#22

Diisopropyl ether

Concen: 52.174 ug/l

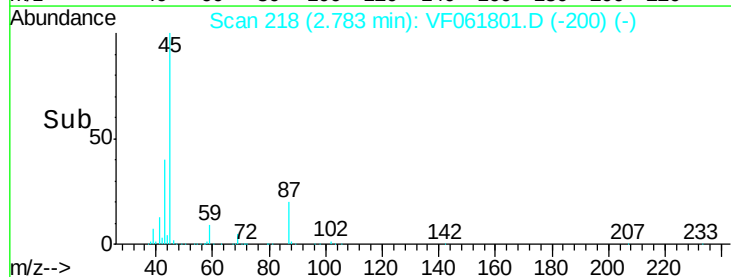
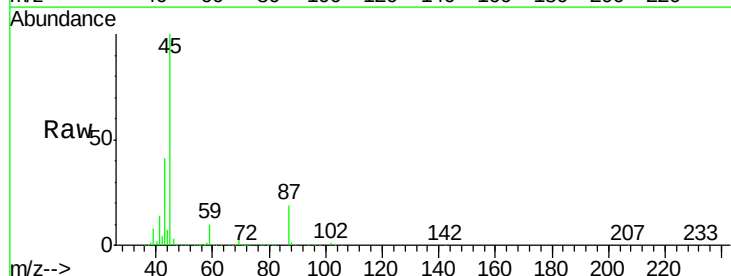
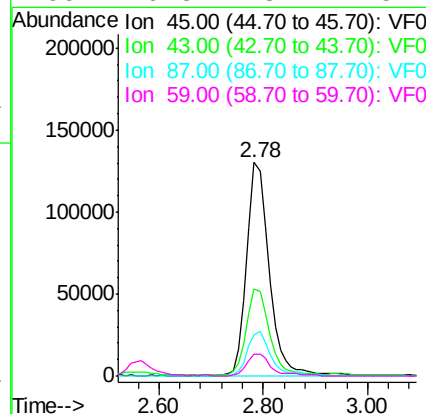
RT: 2.78 min Scan# 218

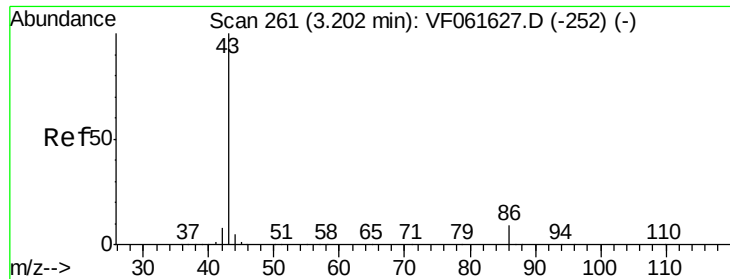
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	45	Resp:	378152
Ion	Ratio	Lower	Upper
45	100		
43	40.6	31.4	47.2
87	19.5	16.3	24.5
59	10.3	8.7	13.1





#23

Vinyl Acetate

Concen: 233.806 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 827687

Ion Ratio Lower Upper

43 100

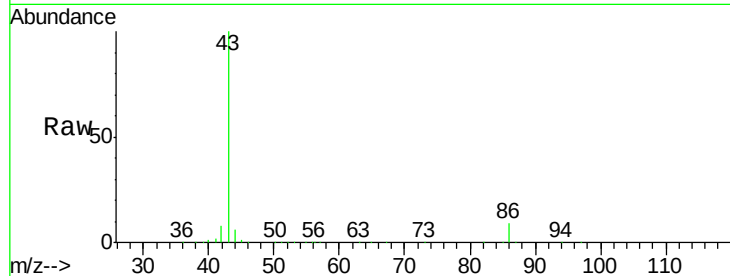
86 8.8 7.5 11.3

Manual Integrations

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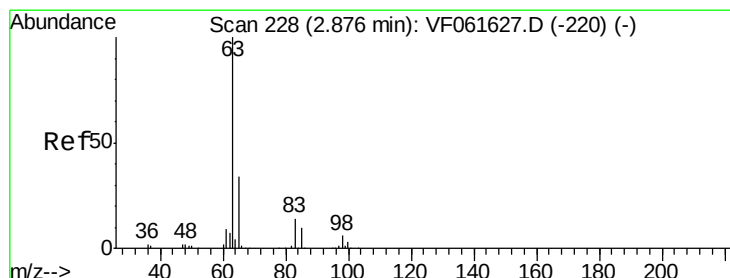
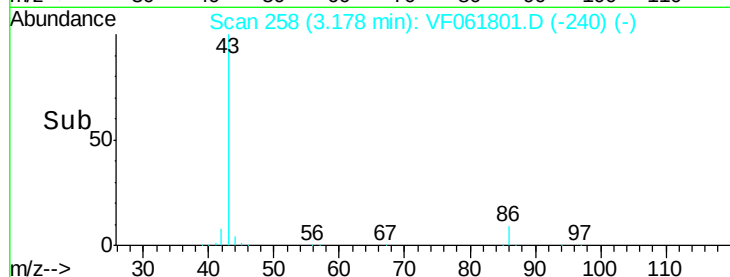
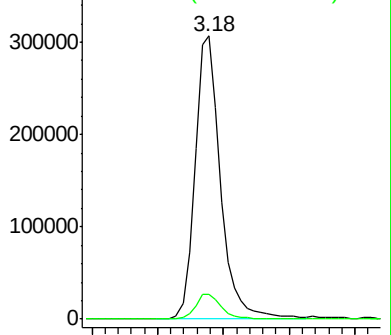
MMDadoda

3/4/2019 4:00:25 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 51.691 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

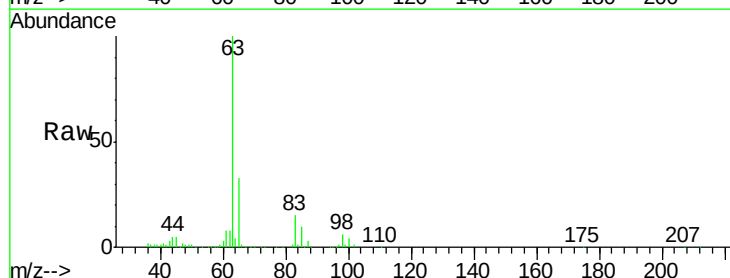
Tgt Ion: 63 Resp: 226724

Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.3

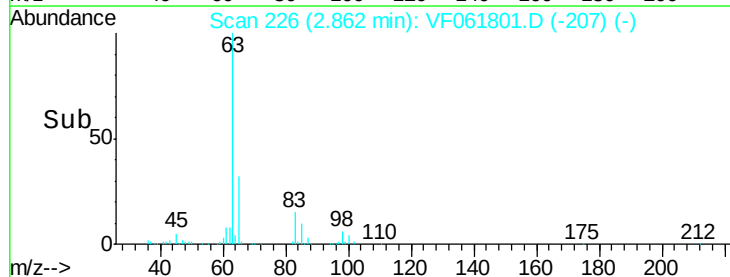
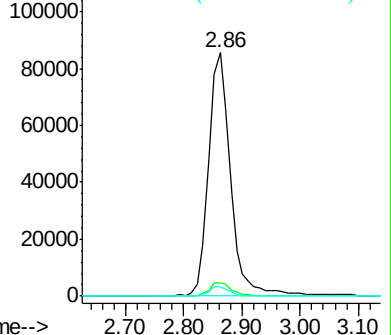
100 3.8 1.8 5.4

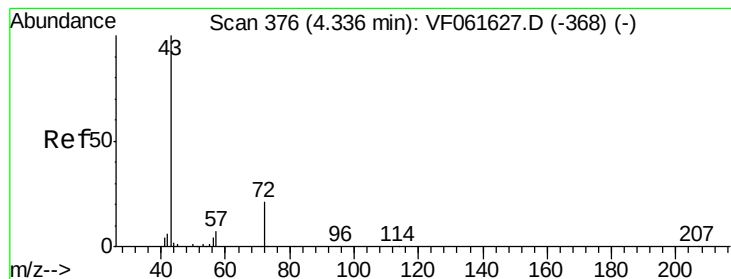


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 247.646 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 244390

Ion Ratio Lower Upper

43 100

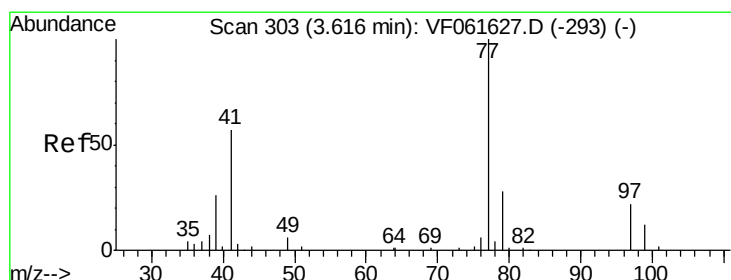
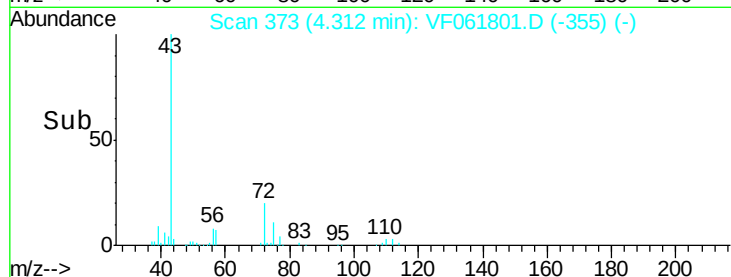
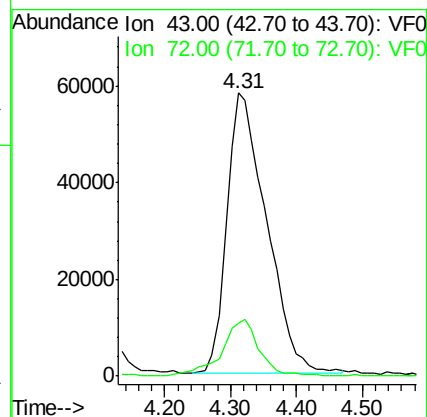
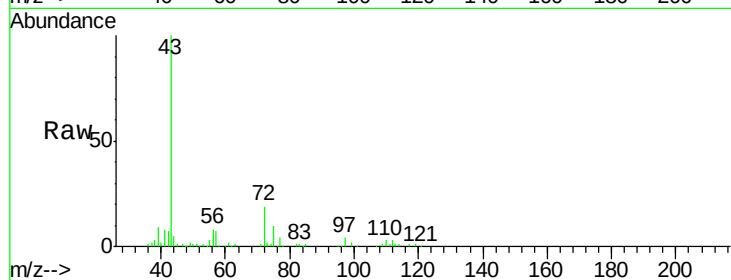
72 18.9 17.1 25.7

Manual Integrations

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MMDadoda

3/4/2019 4:00:25 PM



#26

2,2-Dichloropropane

Concen: 56.889 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061801.D

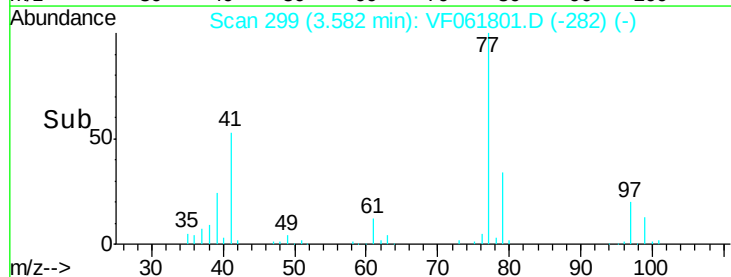
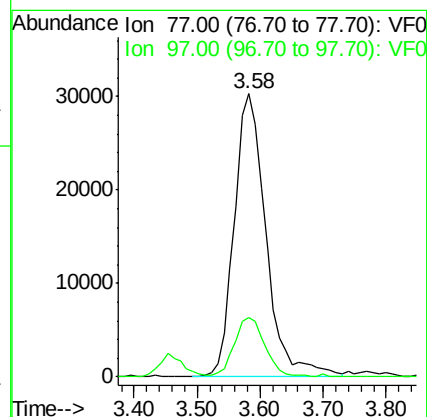
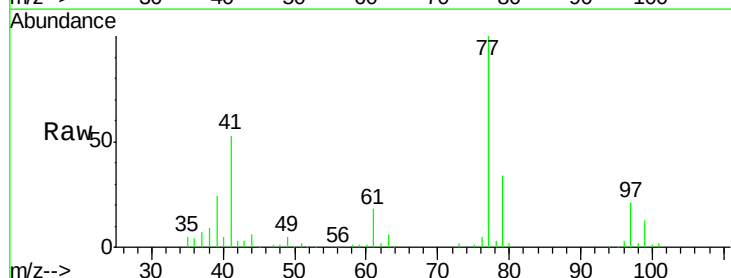
Acq: 1 Mar 2019 12:59

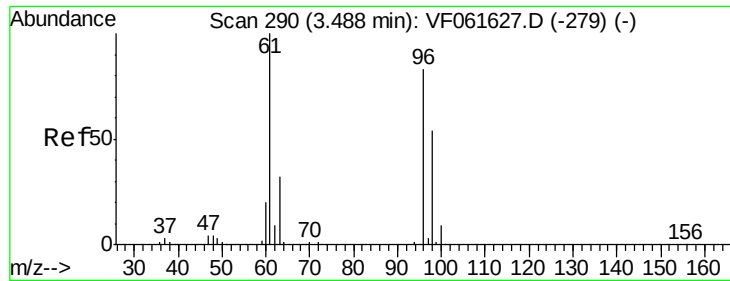
Tgt Ion: 77 Resp: 105693

Ion Ratio Lower Upper

77 100

97 20.8 11.7 35.0





#27

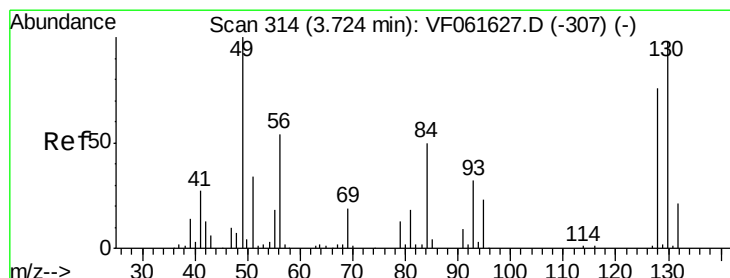
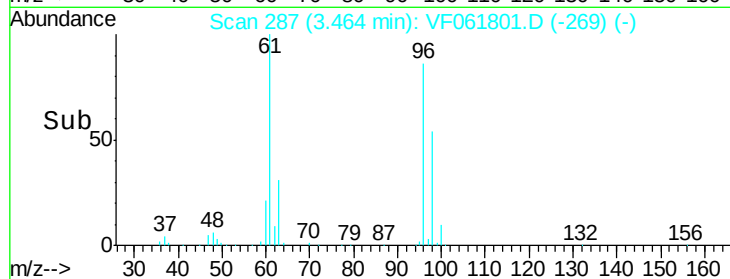
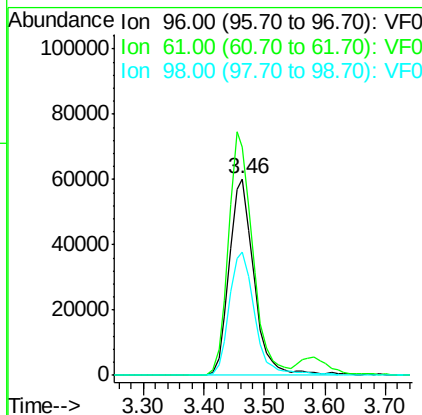
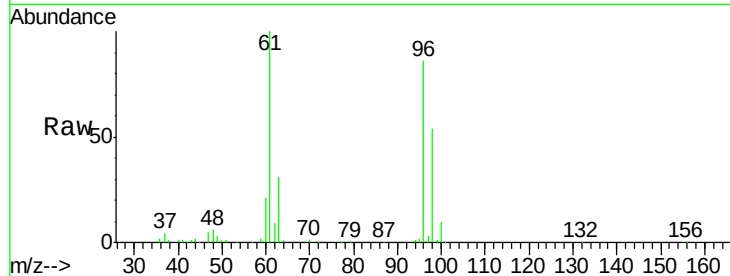
cis-1,2-Dichloroethene
 Concen: 48.871 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.2	0.0	241.6
98	62.9	0.0	130.2

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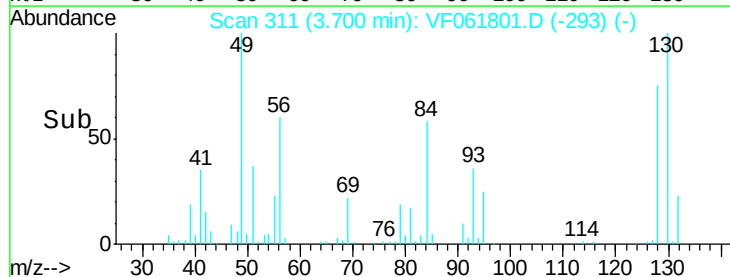
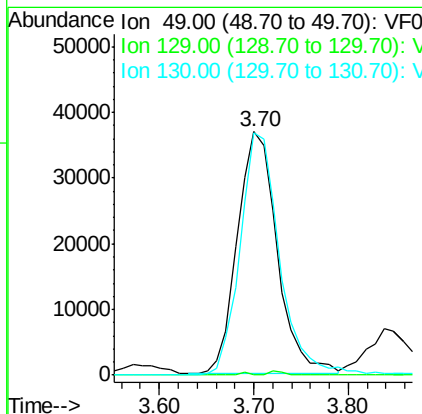
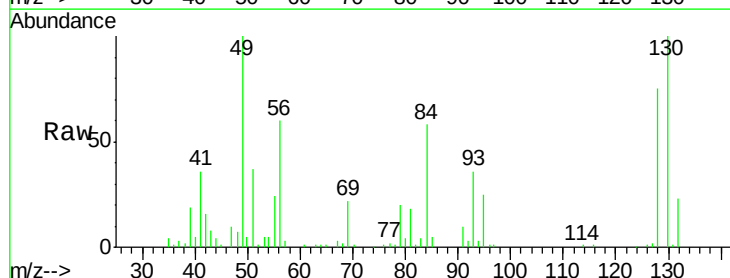
MMDadoda
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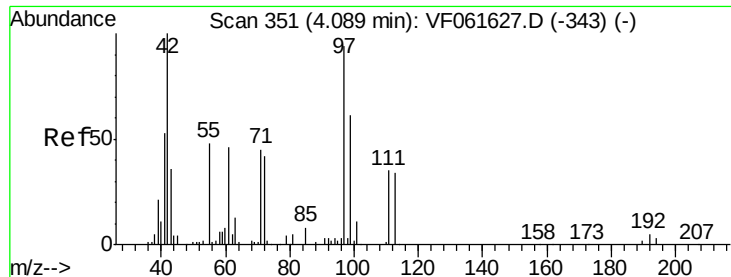


#28

Bromochloromethane
 Concen: 50.814 ug/l
 RT: 3.70 min Scan# 311
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	99.7	77.7	116.5





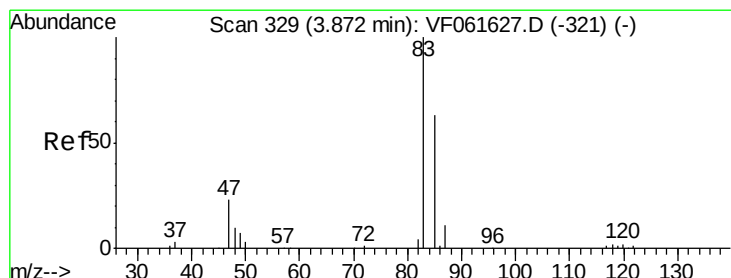
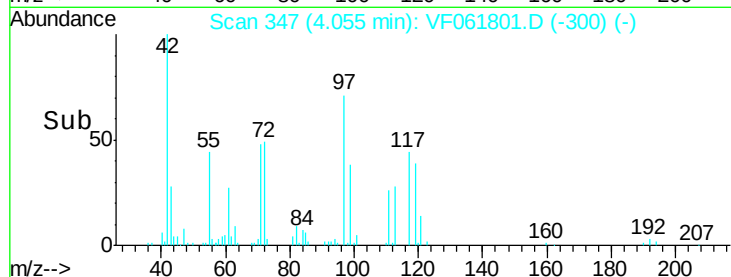
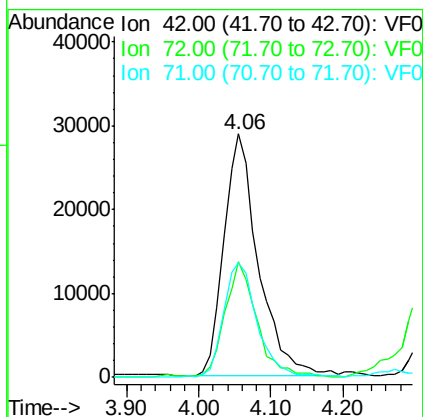
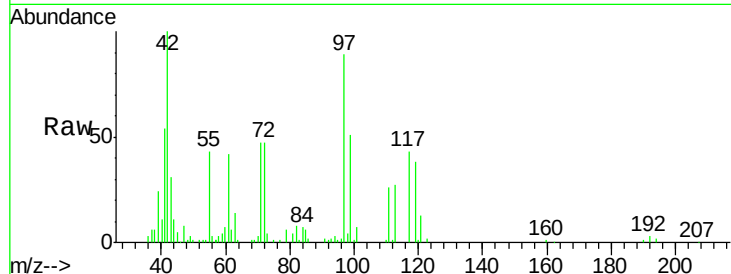
#29
Tetrahydrofuran
Concen: 212.649 ug/l
RT: 4.06 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	35.2	52.8
71	46.9	32.9	49.3

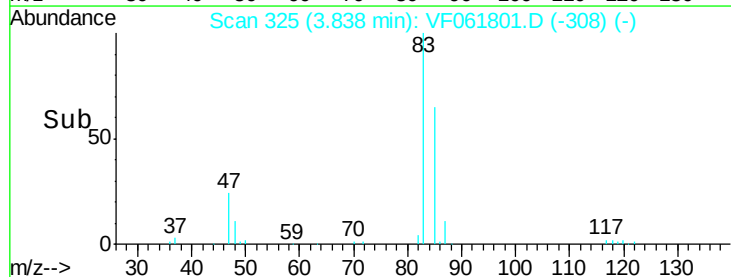
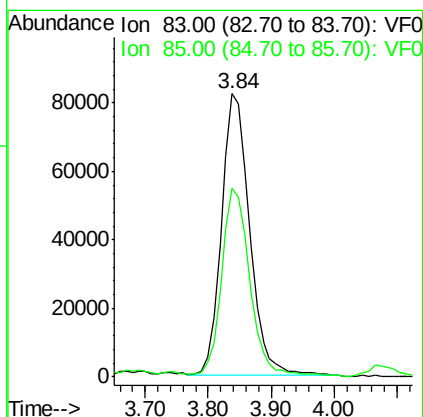
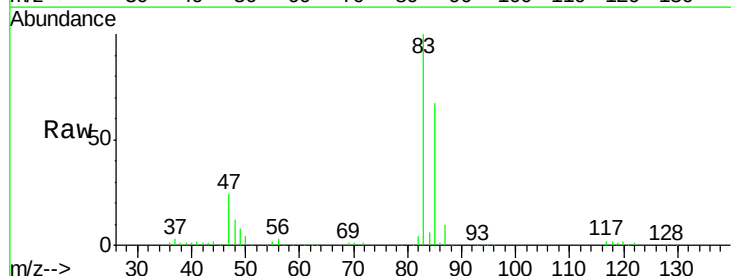
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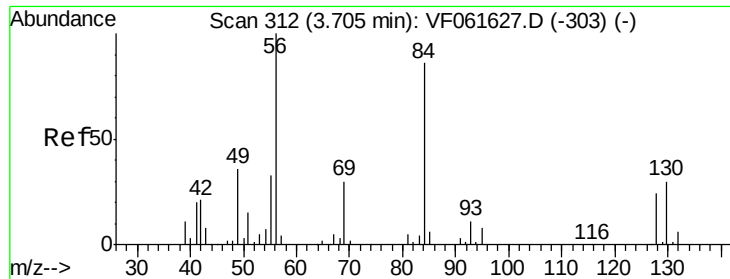
MMDadoda
3/4/2019 4:00:25 PM



#30
Chloroform
Concen: 51.266 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.1	76.7





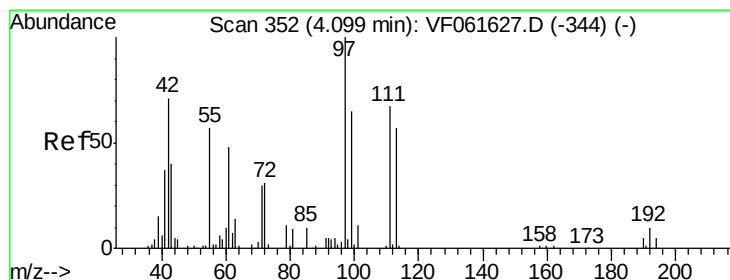
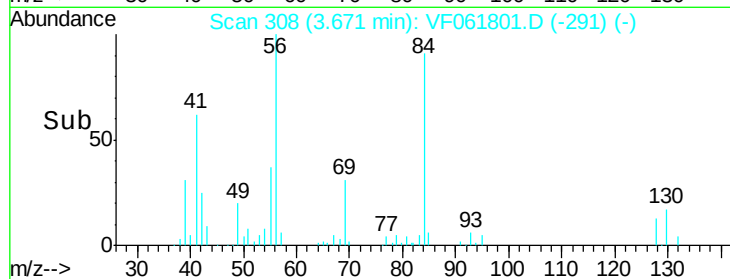
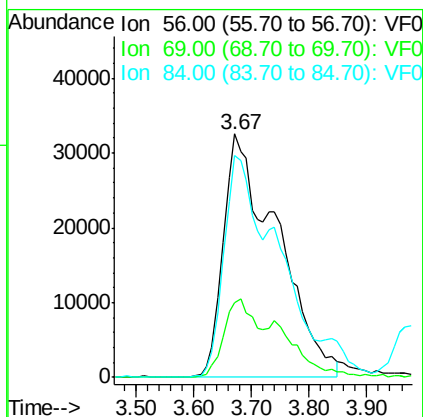
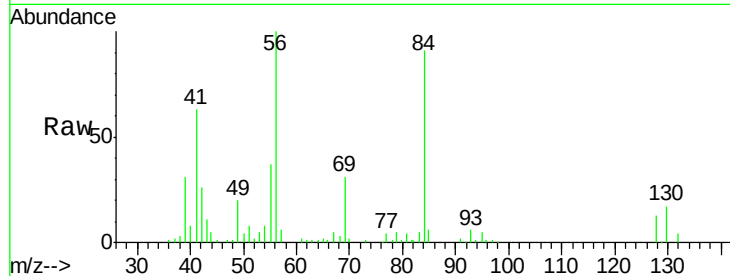
#31
Cyclohexane
Concen: 44.308 ug/l m
RT: 3.67 min Scan# 308
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	23.8	35.8
84	91.1	68.6	103.0

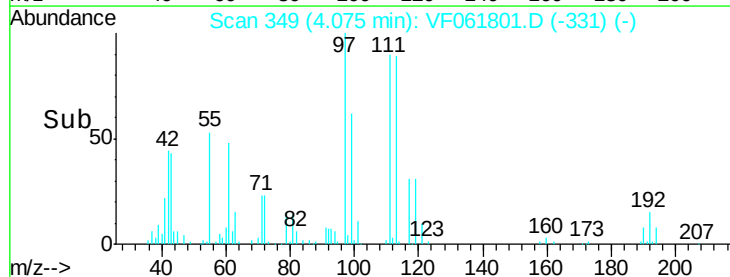
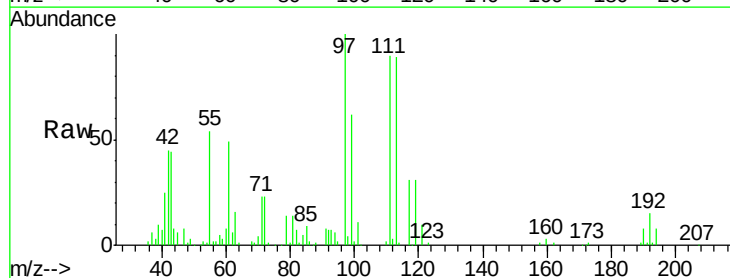
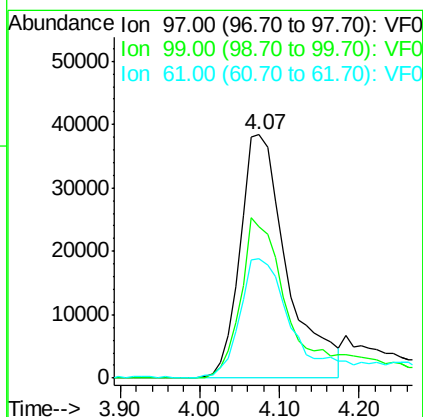
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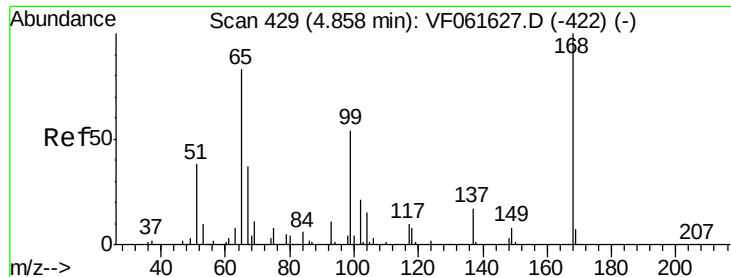
MMDadoda
3/4/2019 4:00:25 PM



#32
1,1,1-Trichloroethane
Concen: 48.034 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	52.2	78.2
61	49.0	39.2	58.8





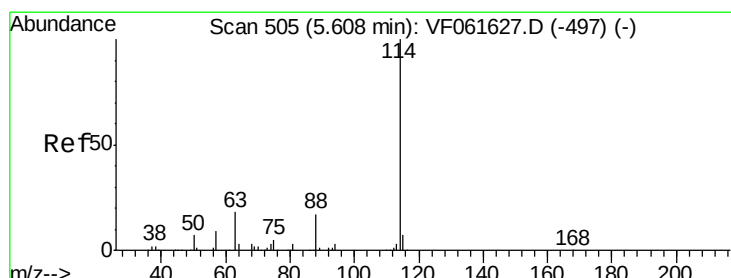
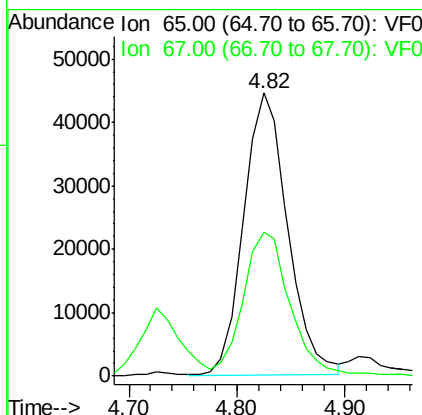
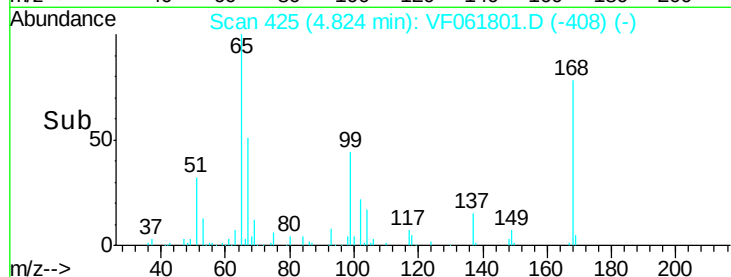
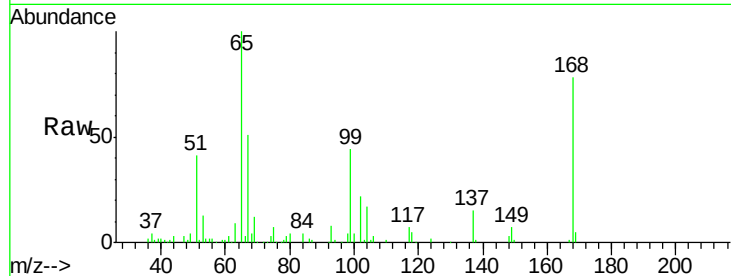
#33
 1,2-Dichloroethane-d4
 Concen: 59.875 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.03 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 65 Resp: 126079
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.0

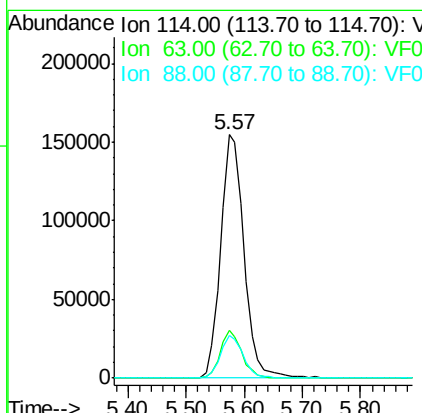
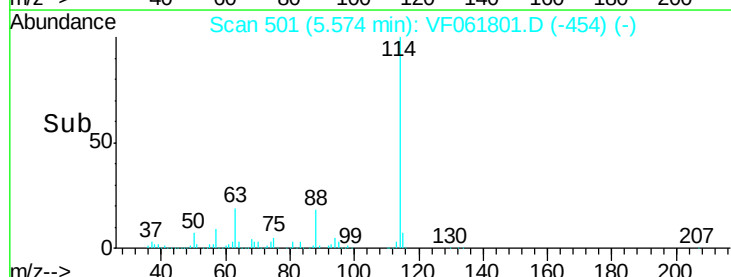
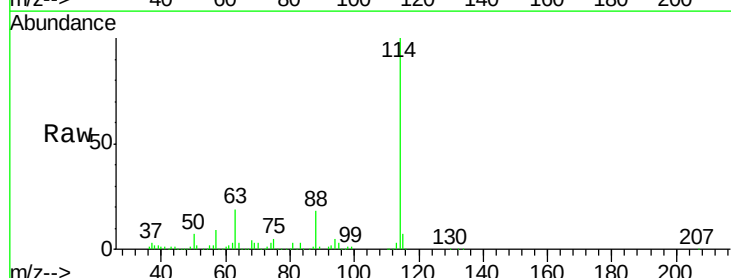
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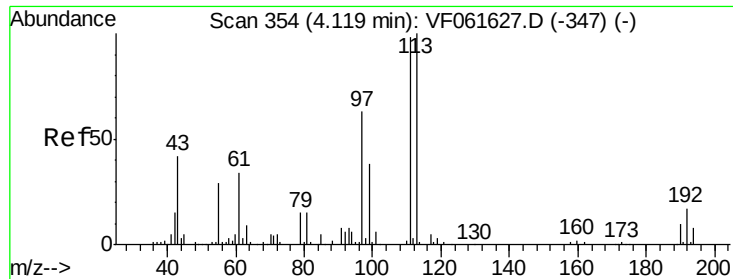
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 3/4/2019 4:00:25 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.03 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion: 114 Resp: 430497
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 36.6
 88 17.6 0.0 34.4





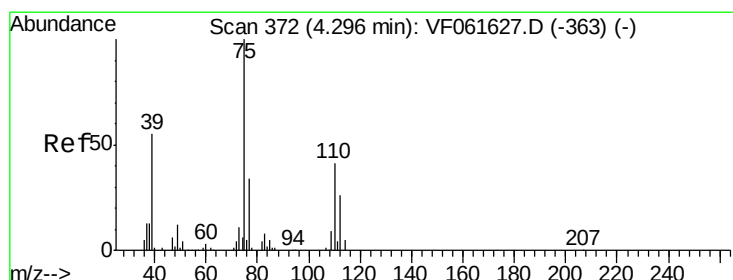
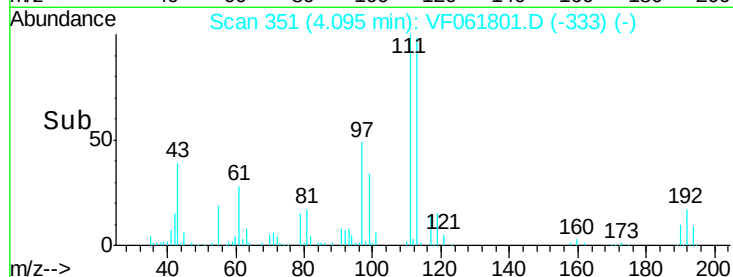
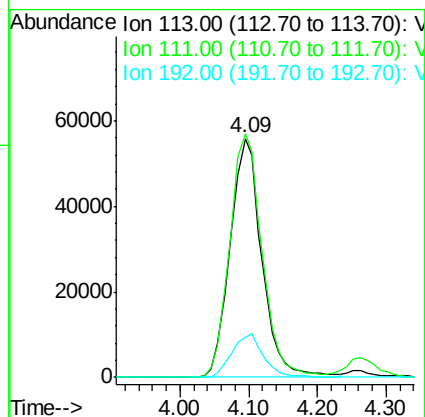
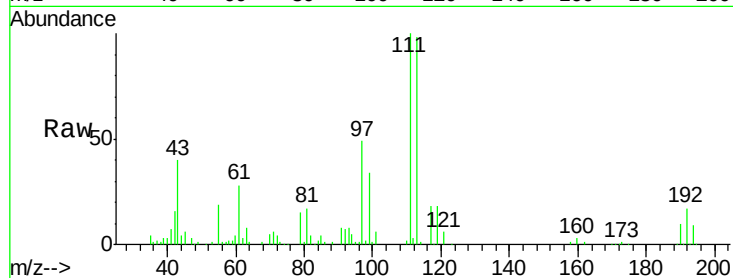
#35
 Dibromofluoromethane
 Concen: 55.922 ug/l
 RT: 4.09 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	78.8	118.2
192	16.9	13.4	20.0

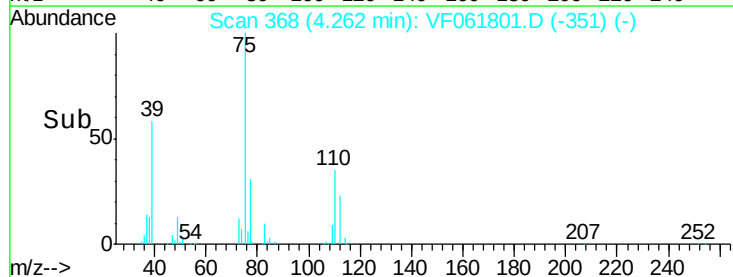
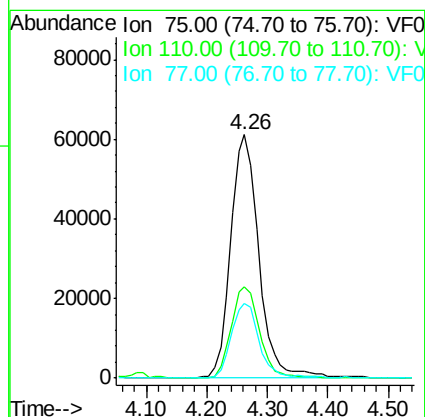
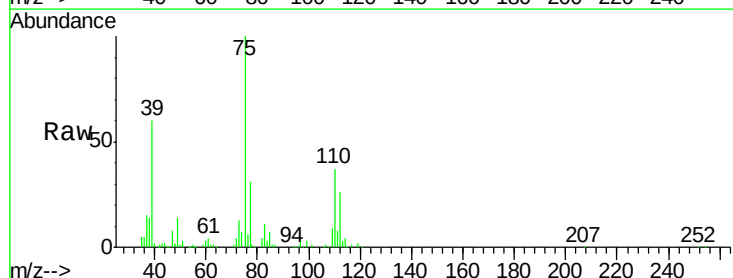
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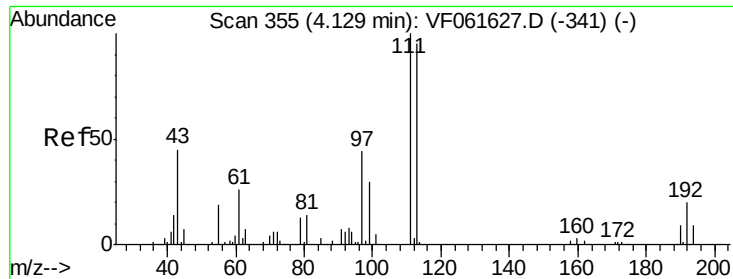
MMDadoda
 3/4/2019 4:00:25 PM



#36
 1,1-Dichloropropene
 Concen: 46.430 ug/l
 RT: 4.26 min Scan# 368
 Delta R.T. -0.03 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.5	20.5	61.6
77	30.8	27.0	40.4





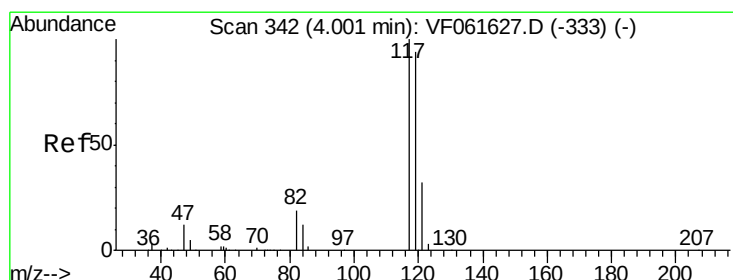
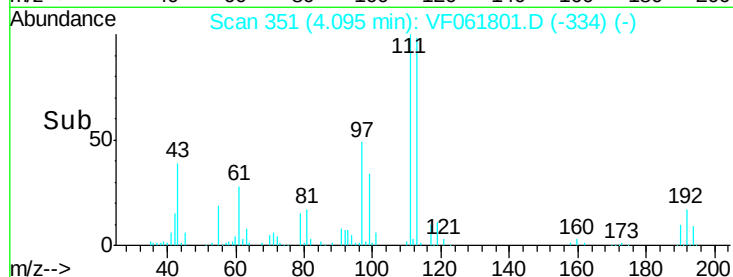
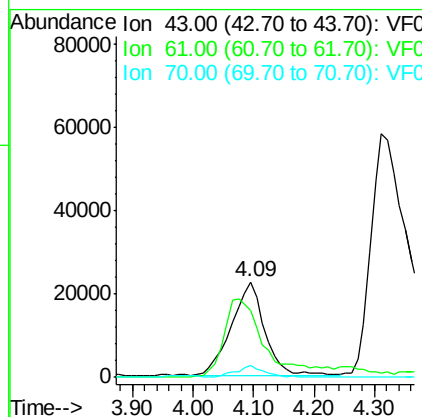
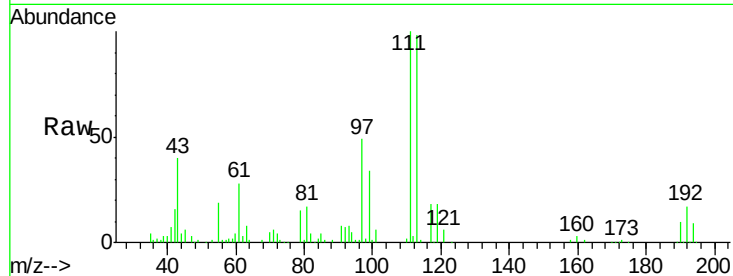
#37
Ethyl Acetate
Concen: 42.766 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	69.8	45.7	68.5#
70	11.9	8.5	12.7

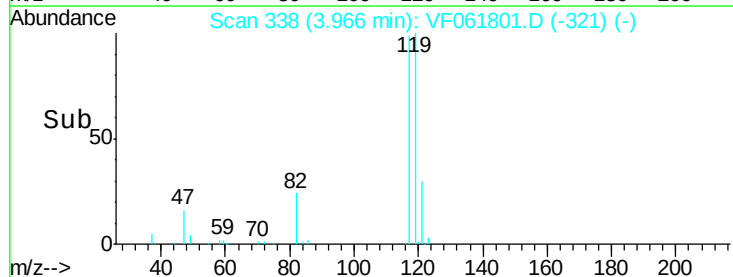
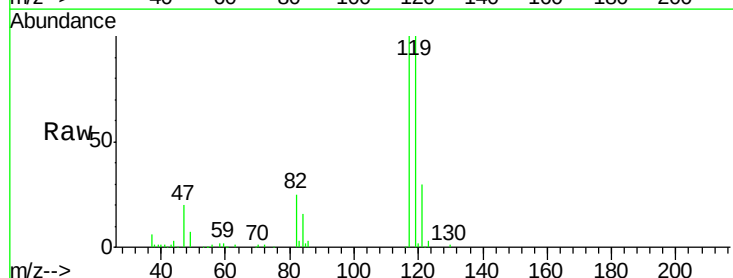
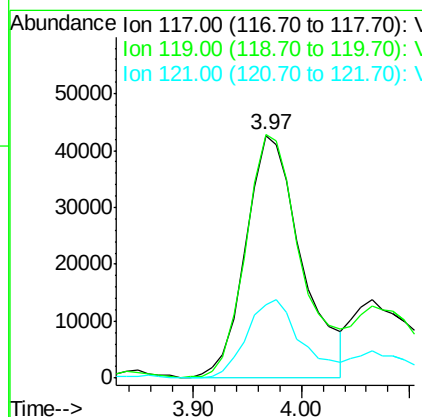
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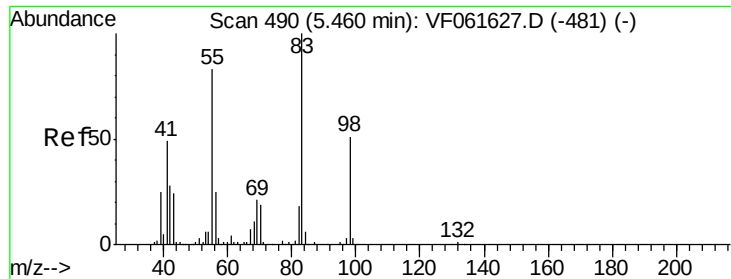
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#38
Carbon Tetrachloride
Concen: 52.148 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.4	75.6	113.4
121	30.1	25.2	37.8





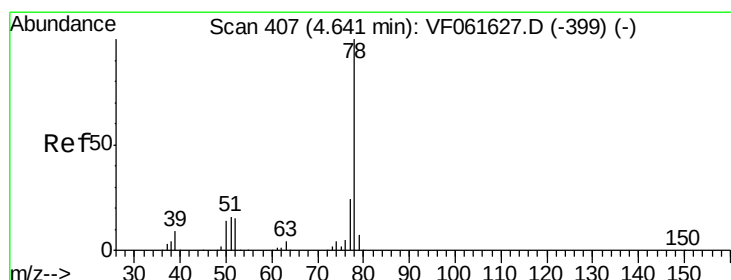
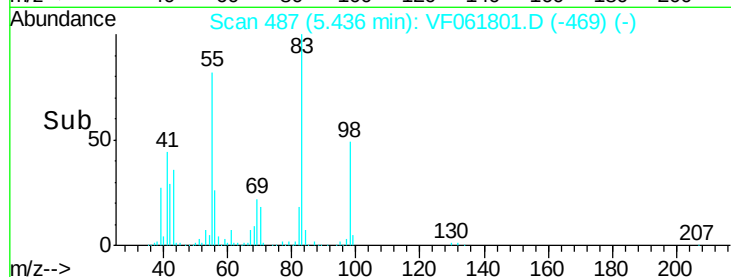
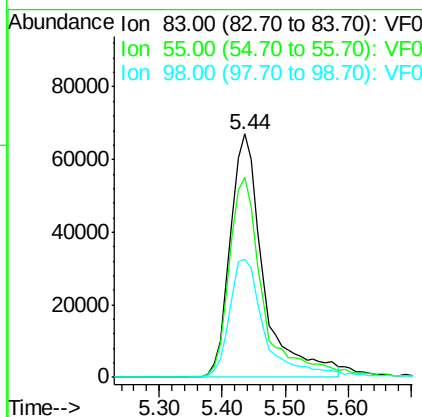
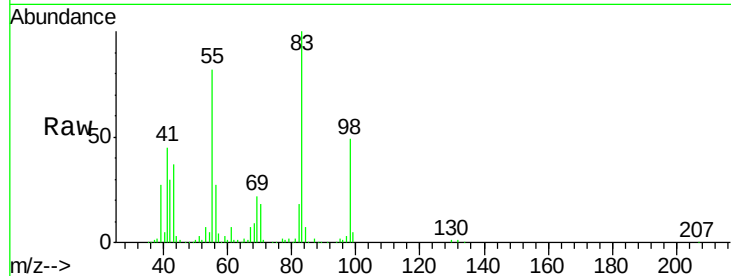
#39
Methylvlcyclohexane
Concen: 48.804 ug/l
RT: 5.44 min Scan# 487
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	246145
Ion	Ratio	Lower	Upper
83	100		
55	82.4	66.6	99.8
98	48.6	40.4	60.6

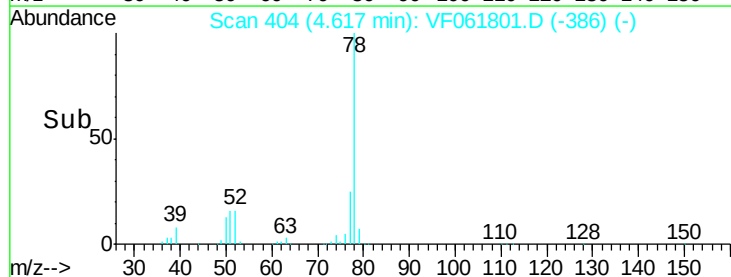
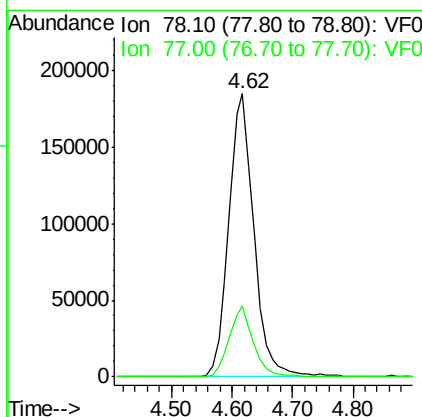
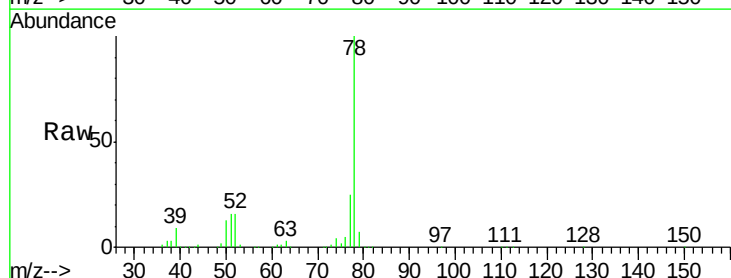
Manual Integrations
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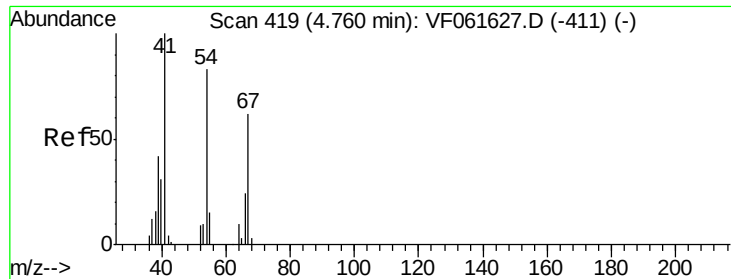
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#40
Benzene
Concen: 47.887 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	78	Resp	534169
Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.0	28.6





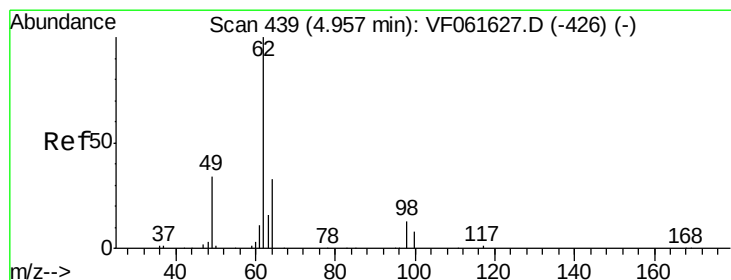
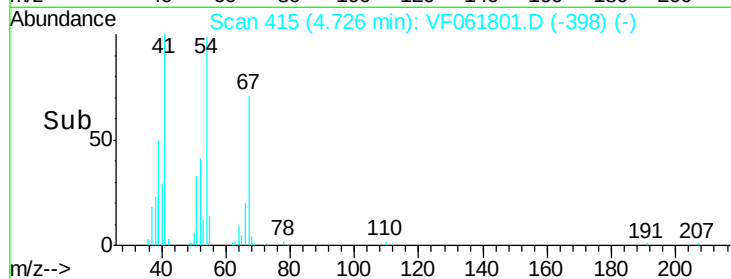
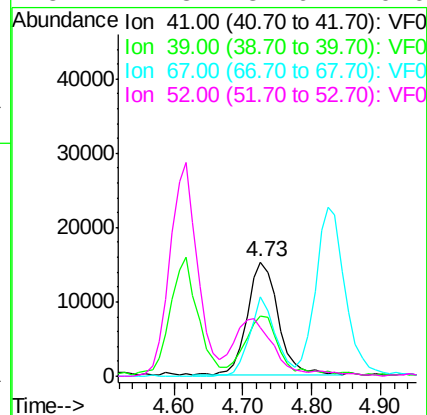
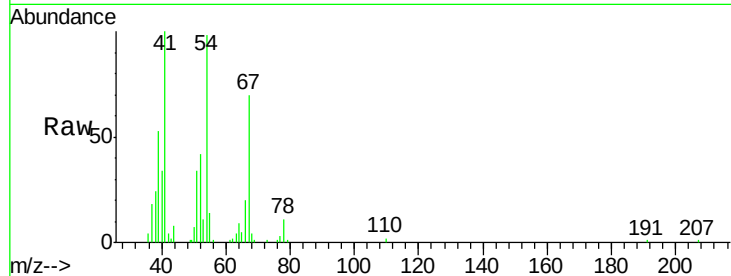
#41
Methacrylonitrile
Concen: 46.411 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.0	45.3	67.9	
67	70.2	49.3	73.9	
52	42.3	32.6	49.0	

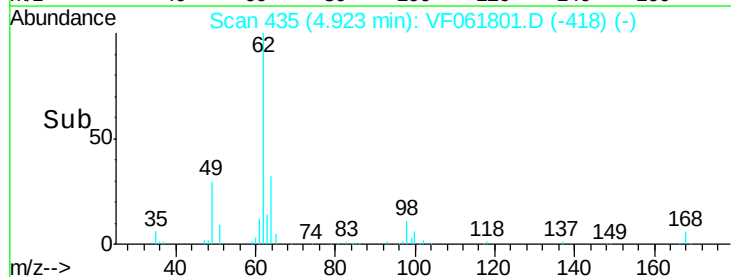
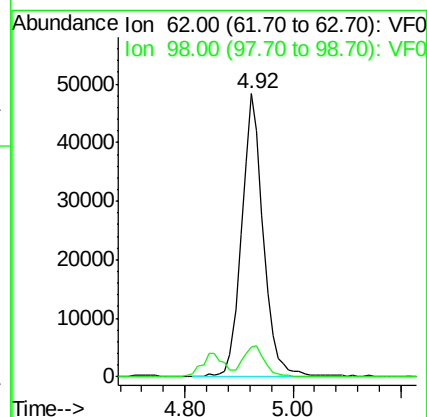
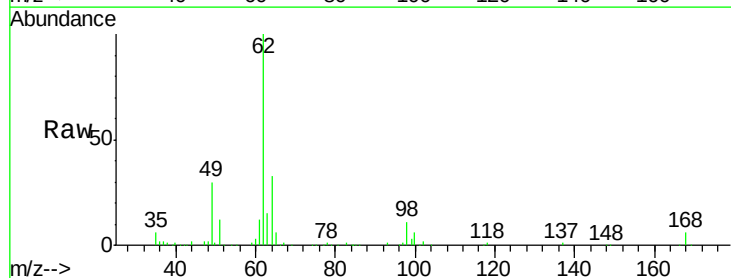
Manual Integrations
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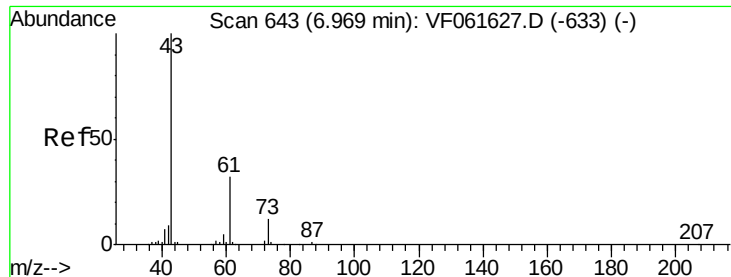
MMDadoda
3/4/2019 4:00:25 PM



#42
1,2-Dichloroethane
Concen: 50.778 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.5	0.0	26.0	





#43

Isopropyl Acetate

Concen: 44.799 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

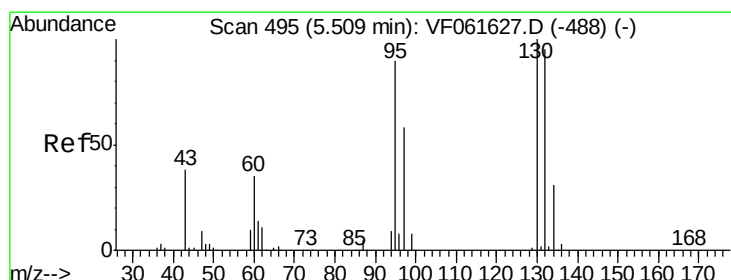
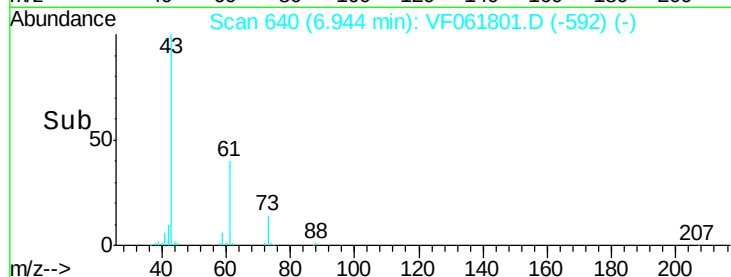
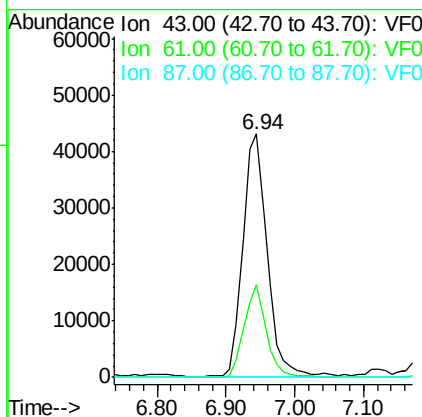
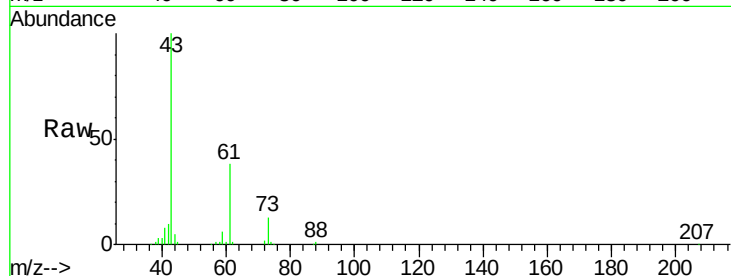
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	105037
Ion	Ratio	Lower	Upper
43	100		
61	37.8	25.8	38.6
87	0.3	0.4	0.6

Manual Integrations
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3/4/2019 4:00:25 PM



#44

Trichloroethene

Concen: 47.936 ug/l

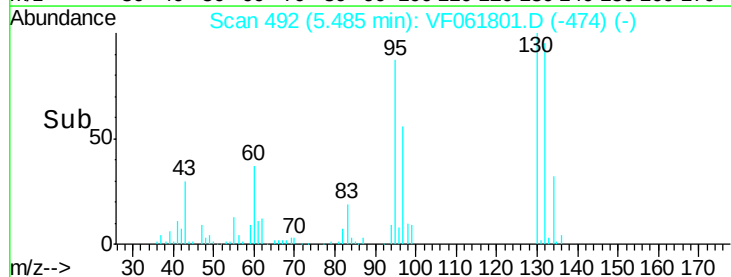
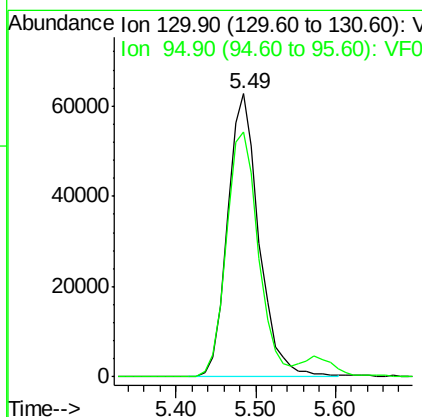
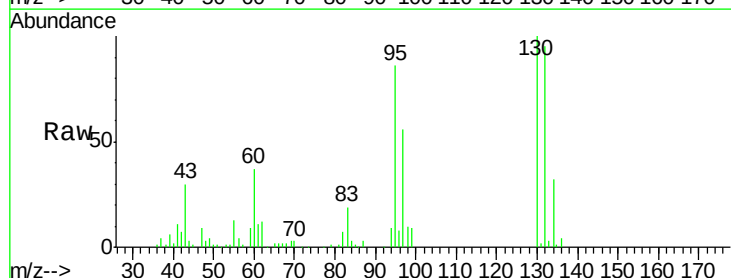
RT: 5.49 min Scan# 492

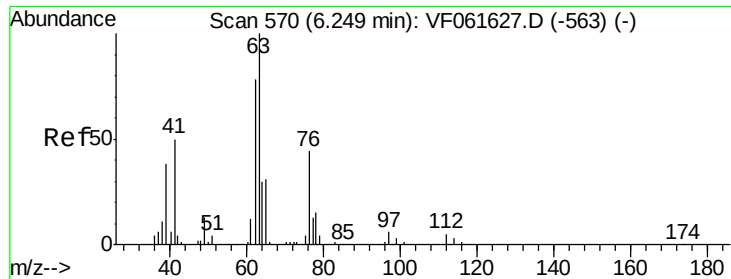
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	130	Resp:	172914
Ion	Ratio	Lower	Upper
130	100		
95	86.4	0.0	179.4





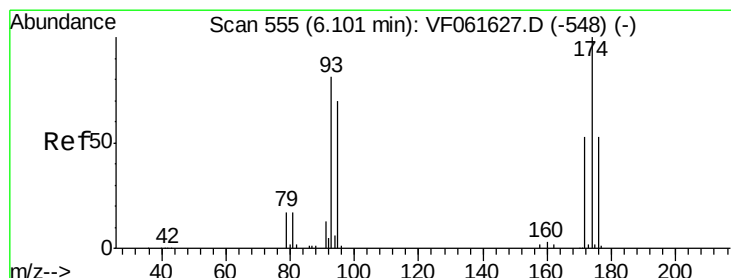
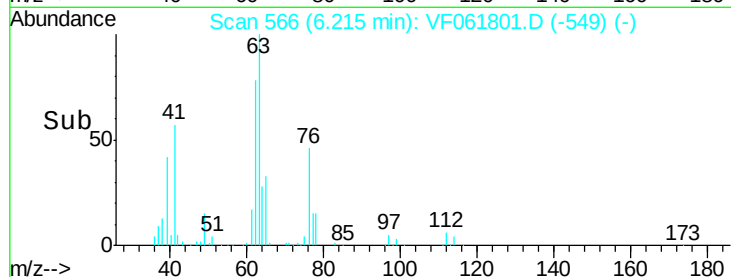
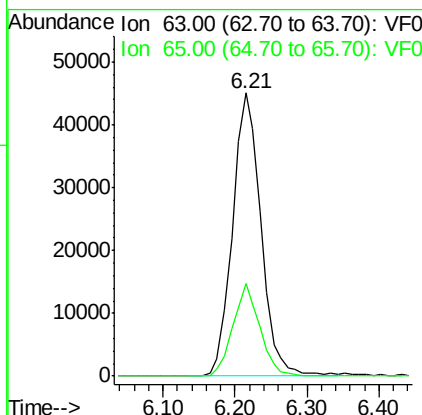
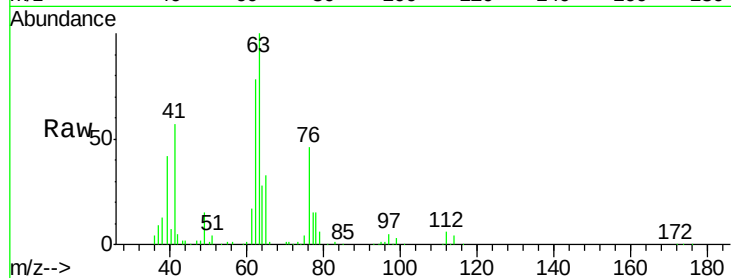
#45
1,2-Dichloropropane
Concen: 45.964 ug/l
RT: 6.21 min Scan# 566
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.6	24.9	37.3

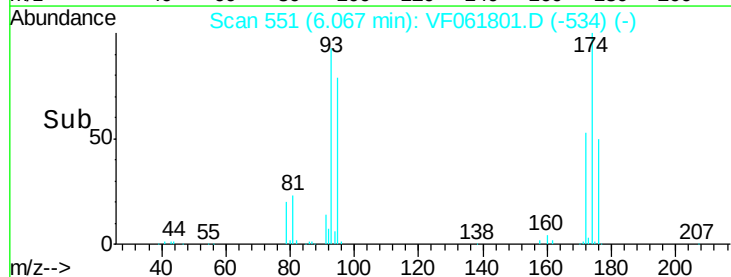
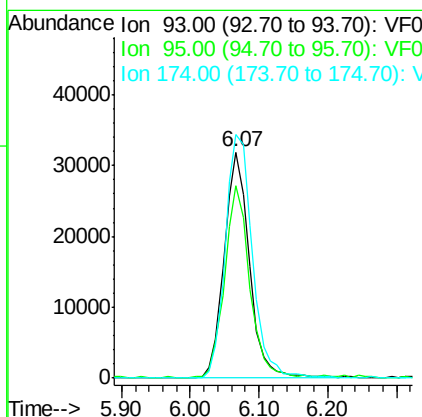
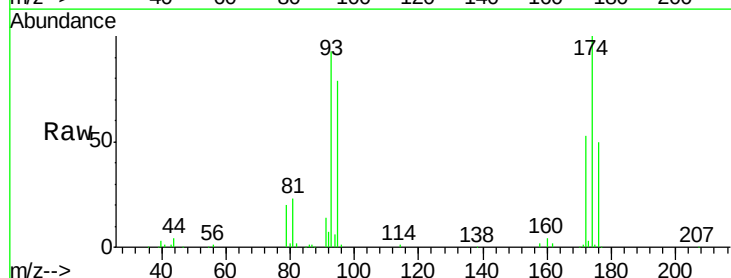
Manual Integrations
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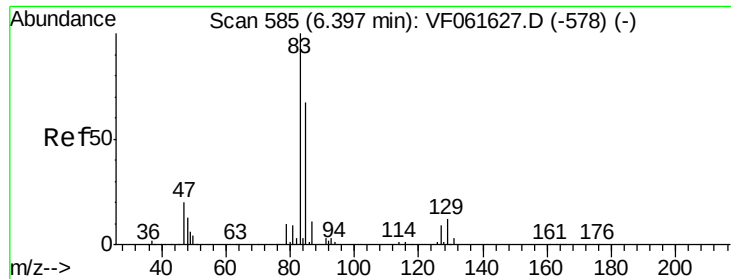
MMDadoda
3/4/2019 4:00:25 PM



#46
Dibromomethane
Concen: 48.945 ug/l
RT: 6.07 min Scan# 551
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.5	69.0	103.6
174	107.8	99.3	148.9





#47

Bromodichloromethane

Concen: 50.515 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

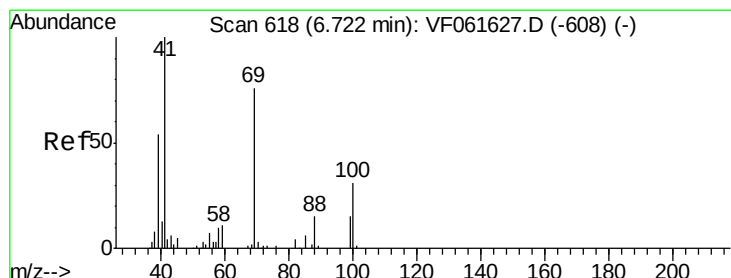
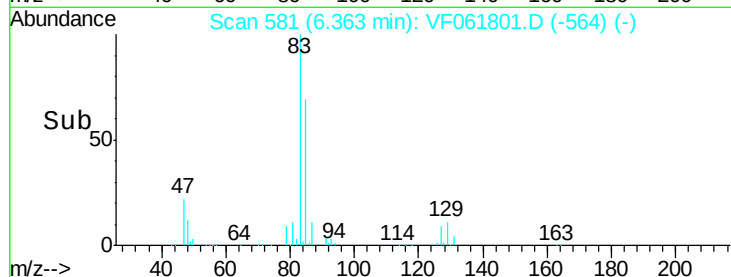
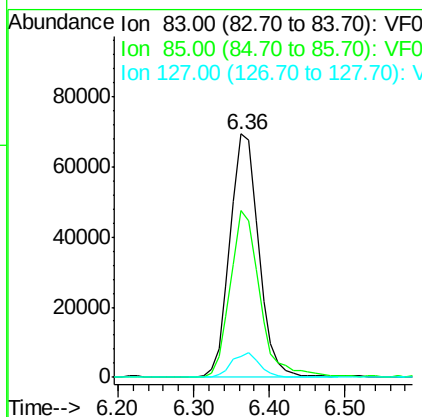
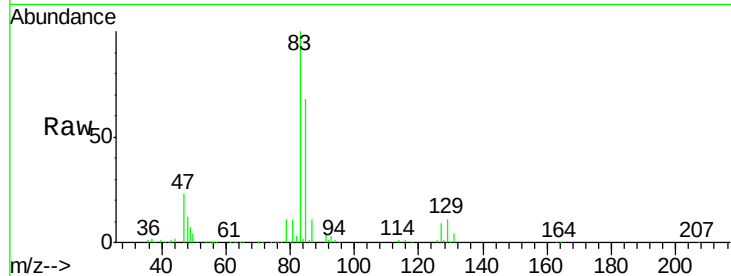
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	183647
Ion	Ratio	Lower	Upper
83	100		
85	68.4	53.4	80.2
127	8.5	7.5	11.3

Manual Integrations
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3/4/2019 4:00:25 PM



#48

Methyl methacrylate

Concen: 47.463 ug/l

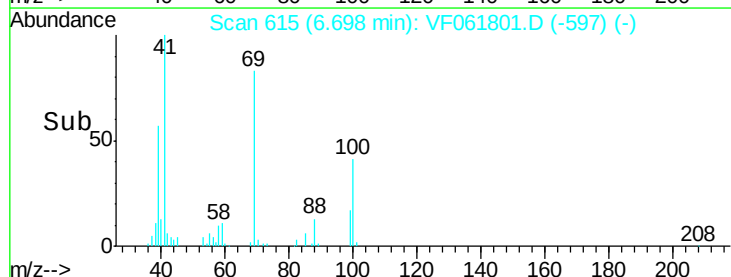
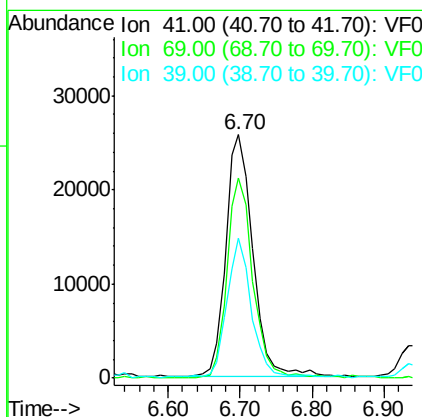
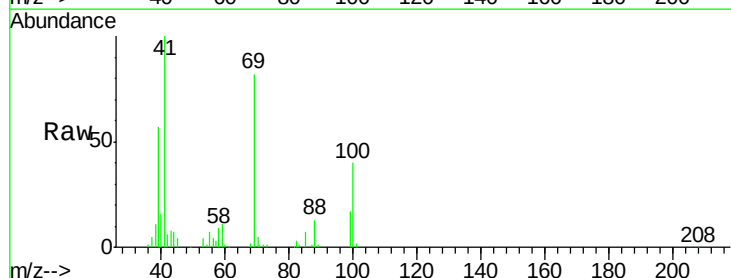
RT: 6.70 min Scan# 615

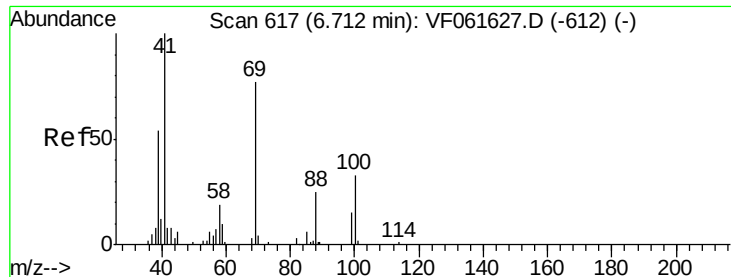
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	41	Resp:	66970
Ion	Ratio	Lower	Upper
41	100		
69	82.3	60.4	90.6
39	57.3	43.7	65.5





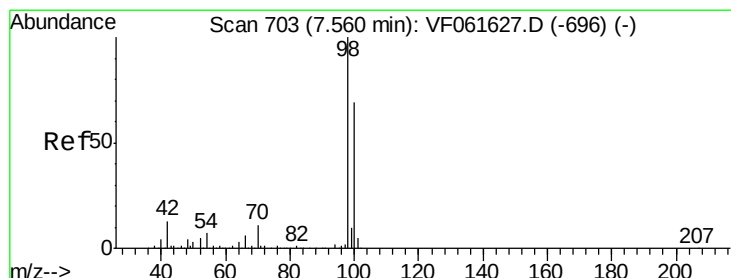
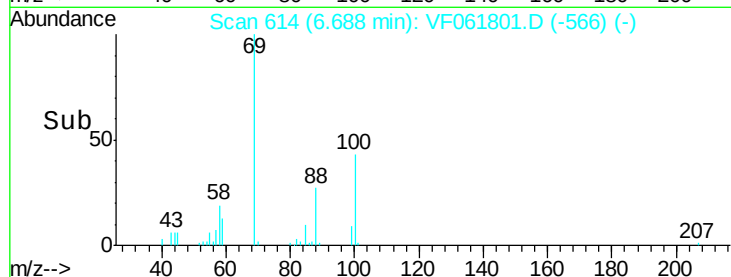
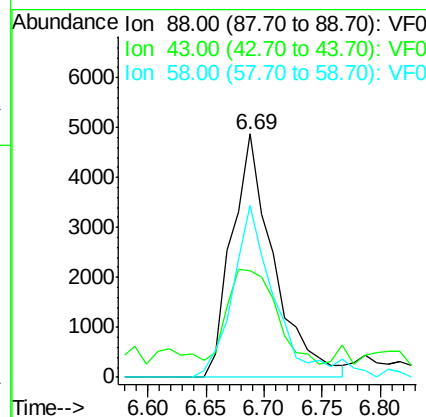
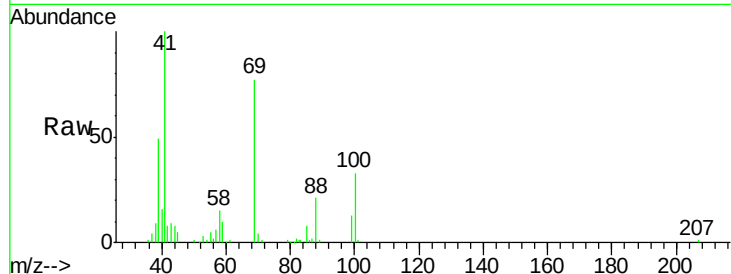
#49
1,4-Dioxane
Concen: 917.976 ug/l
RT: 6.69 min Scan# 614
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	43.8		32.3	48.5
58	70.4		59.4	89.2

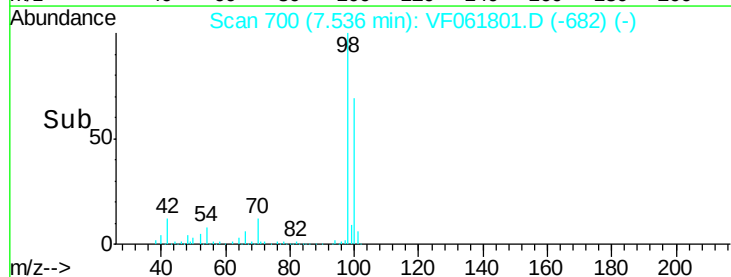
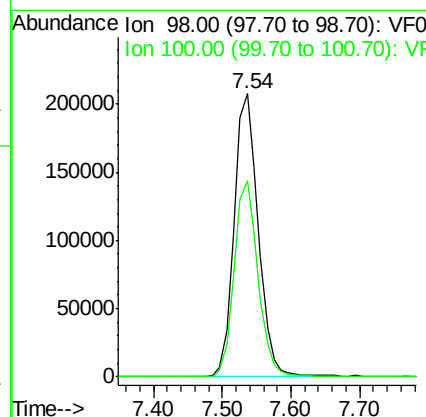
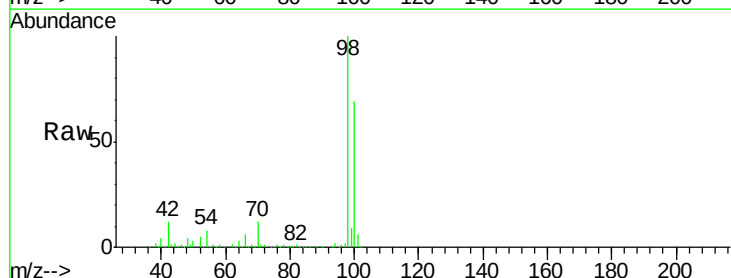
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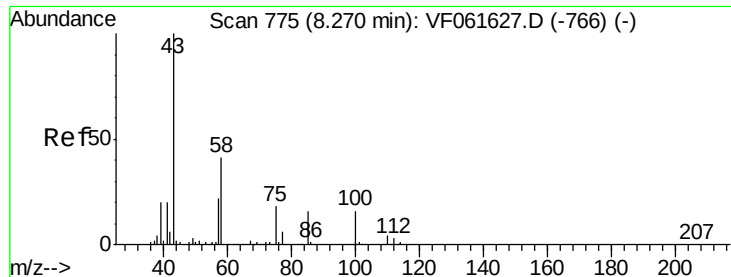
MMDadoda
3/4/2019 4:00:25 PM



#50
Toluene-d8
Concen: 54.783 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	69.5		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 221.867 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 371699

Ion Ratio Lower Upper

43 100

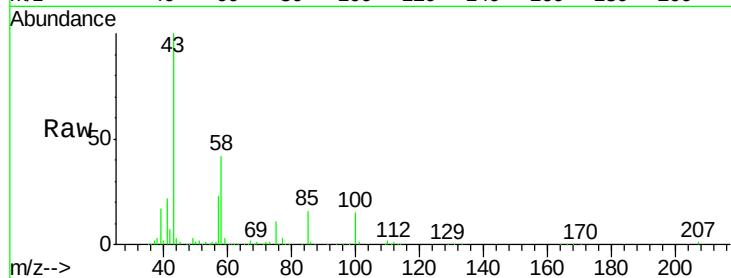
58 41.9 33.1 49.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

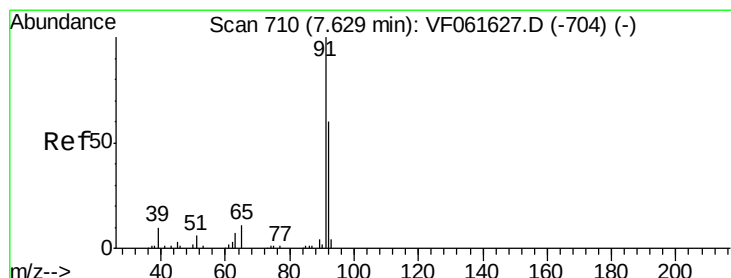
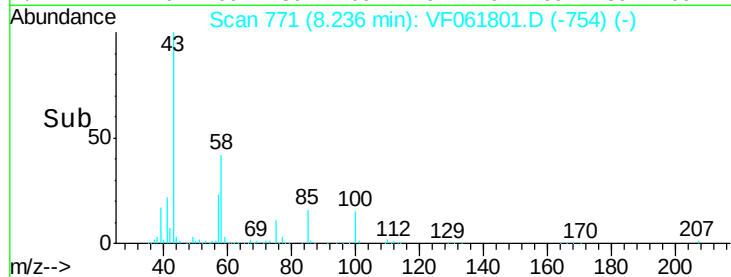
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 47.393 ug/l

RT: 7.61 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF061801.D

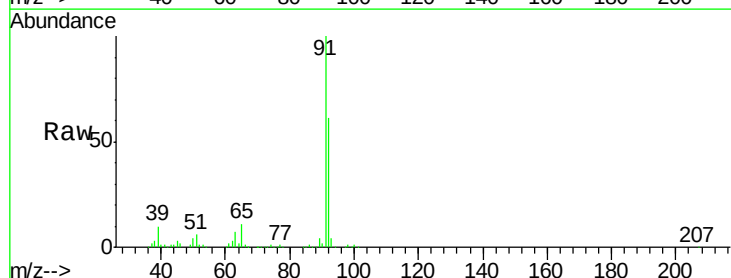
Acq: 1 Mar 2019 12:59

Tgt Ion: 92 Resp: 320620

Ion Ratio Lower Upper

92 100

91 163.7 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

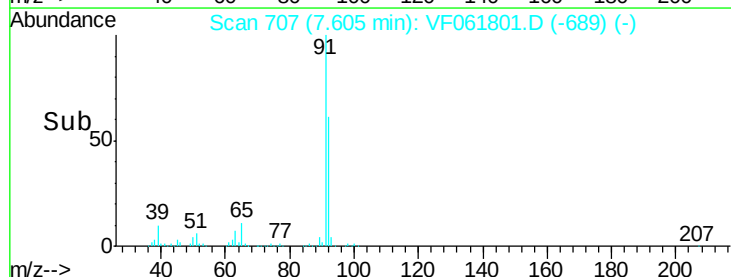
100000

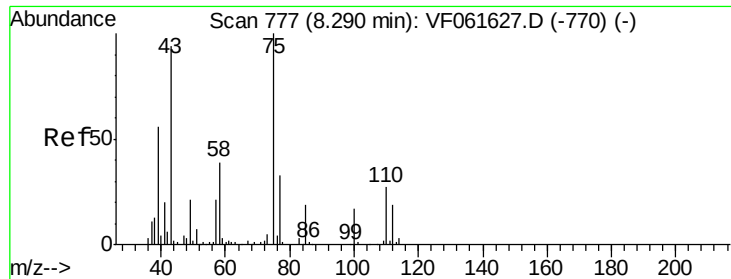
50000

0

7.50 7.60 7.70

Time-->





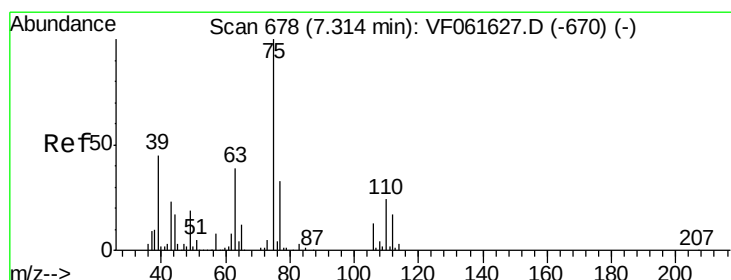
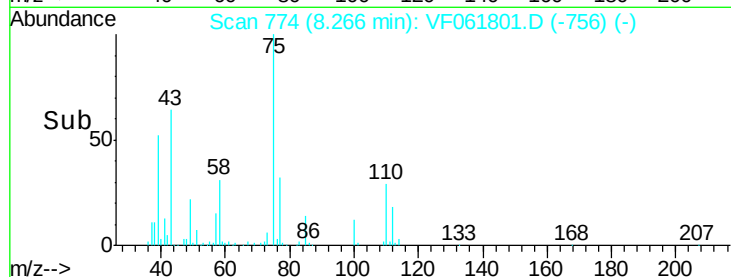
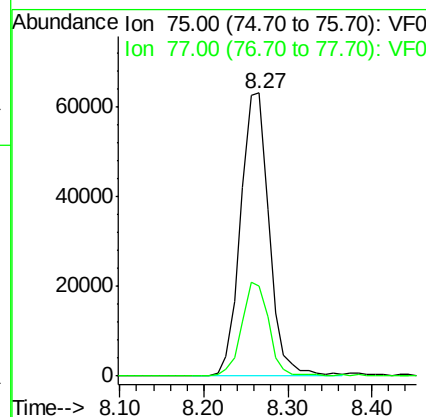
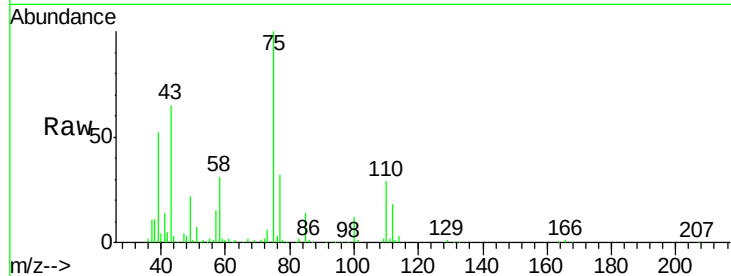
#53
t-1,3-Dichloropropene
Concen: 49.515 ug/l
RT: 8.27 min Scan# 774
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.2	39.2

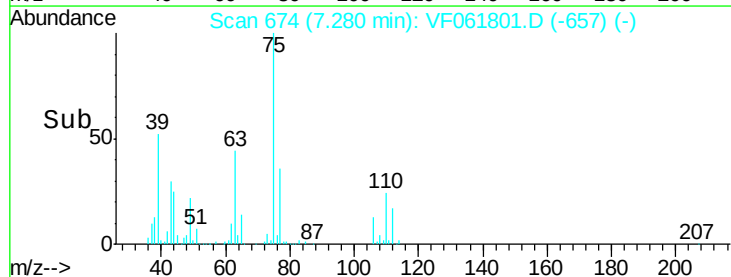
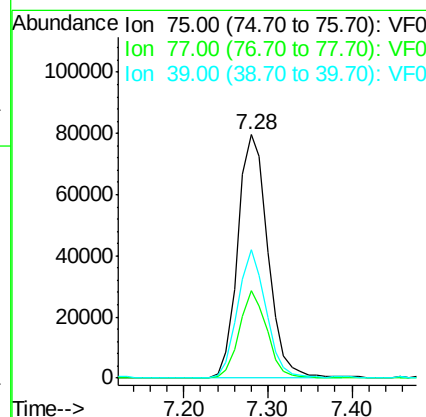
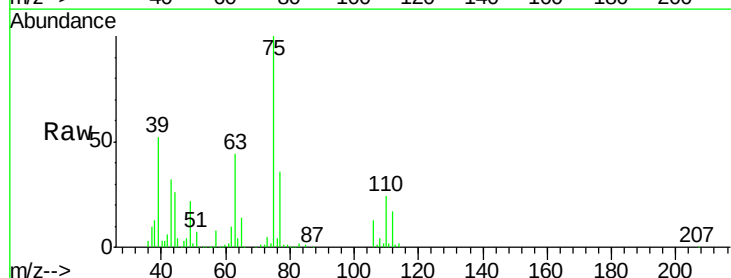
Manual Integrations
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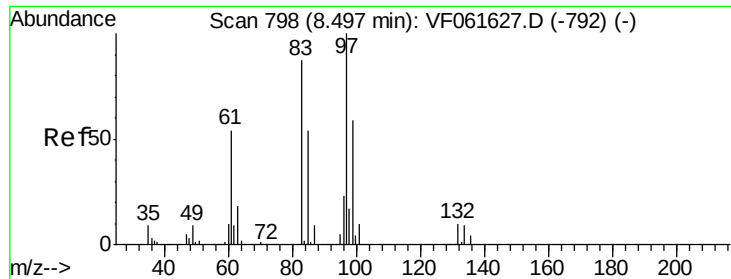
MMDadoda
3/4/2019 4:00:25 PM



#54
cis-1,3-Dichloropropene
Concen: 49.187 ug/l
RT: 7.28 min Scan# 674
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	36.0	26.4	39.6
39	52.5	36.0	54.0





#55

1,1,2-Trichloroethane

Concen: 48.055 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

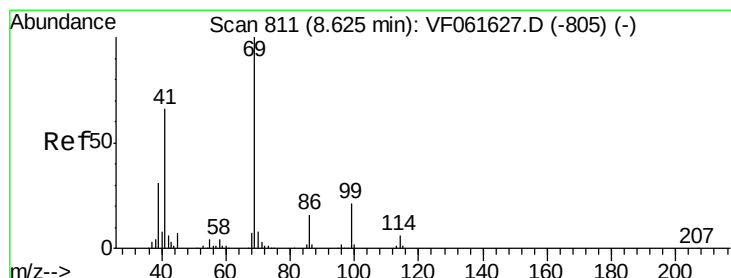
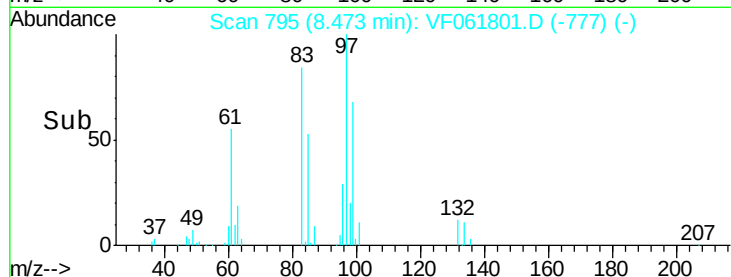
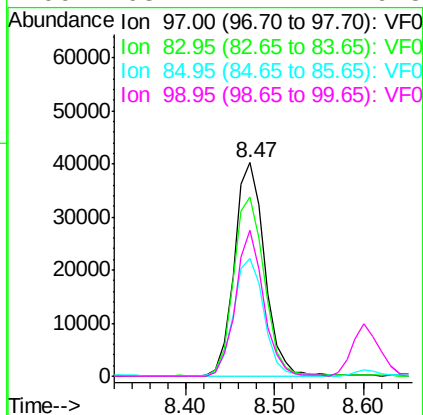
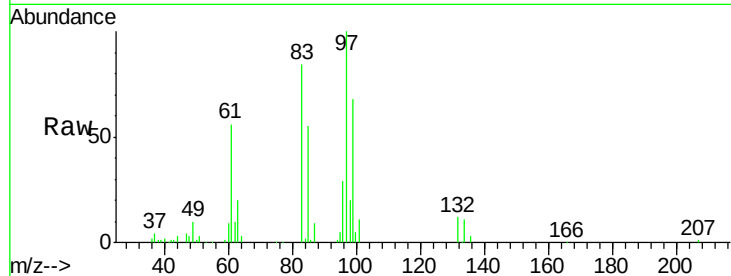
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	95517
Ion	Ratio	Lower	Upper
97	100		
83	84.1	69.2	103.8
85	55.0	43.0	64.4
99	68.2	47.2	70.8

Manual Integrations
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3/4/2019 4:00:25 PM



#56

Ethyl methacrylate

Concen: 43.889 ug/l

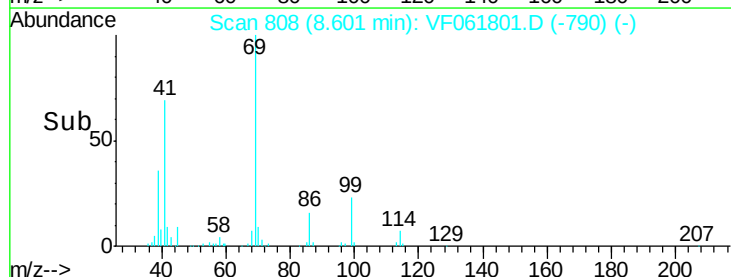
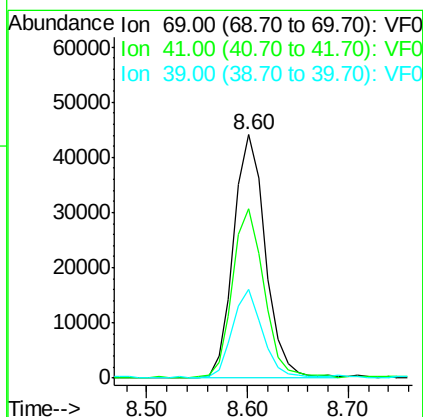
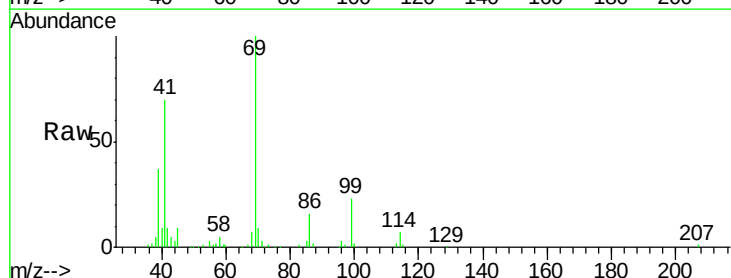
RT: 8.60 min Scan# 808

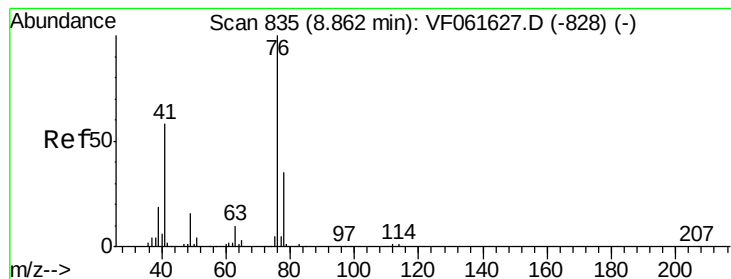
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	69	Resp:	97126
Ion	Ratio	Lower	Upper
69	100		
41	69.8	52.9	79.3
39	36.7	24.5	36.7





#57

1,3-Dichloropropane

Concen: 46.706 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 154955

Ion Ratio Lower Upper

76 100

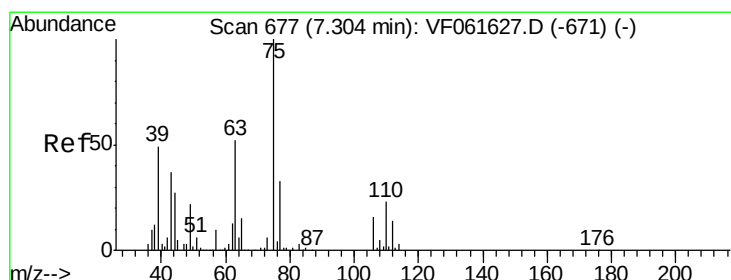
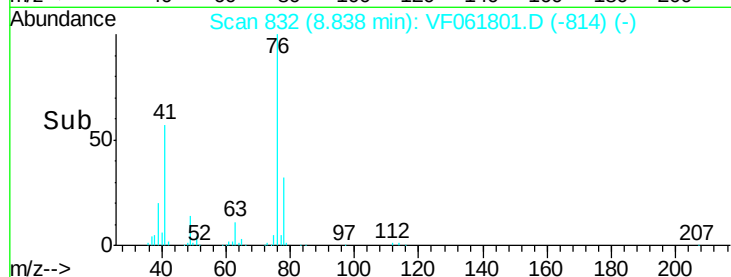
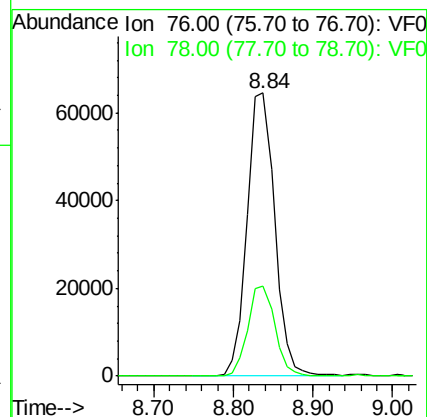
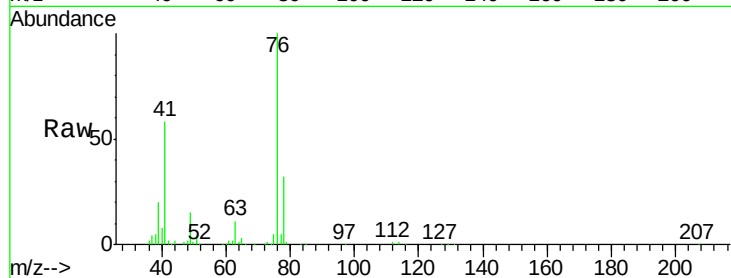
78 31.8 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 213.828 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061801.D

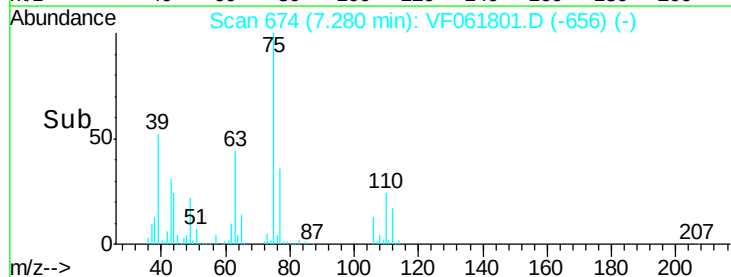
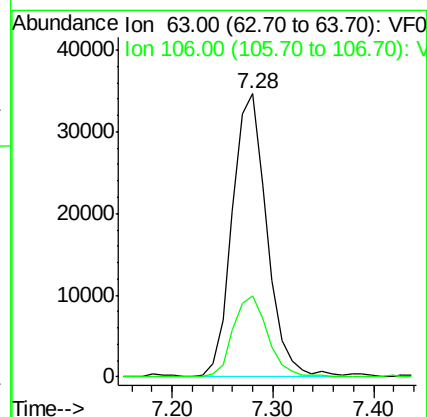
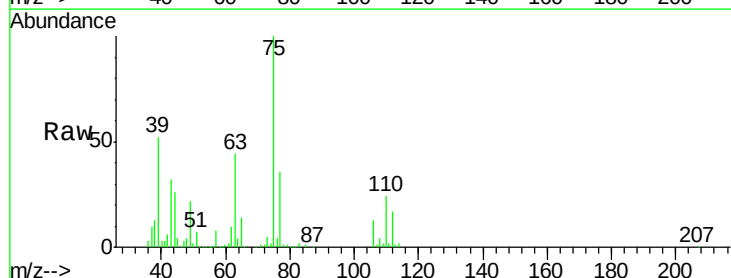
Acq: 1 Mar 2019 12:59

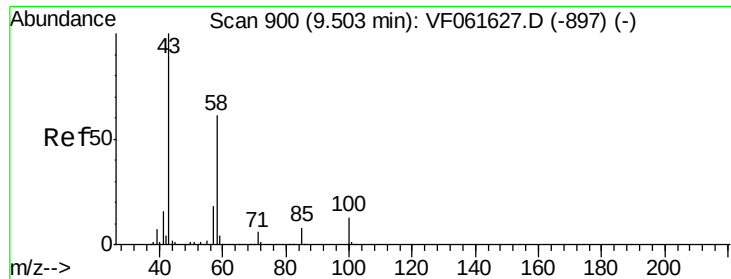
Tgt Ion: 63 Resp: 81644

Ion Ratio Lower Upper

63 100

106 28.8 24.6 36.8





#59

2-Hexanone

Concen: 238.408 ug/l

RT: 9.47 min Scan# 896

Delta R.T. -0.03 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 279977

Ion Ratio Lower Upper

43 100

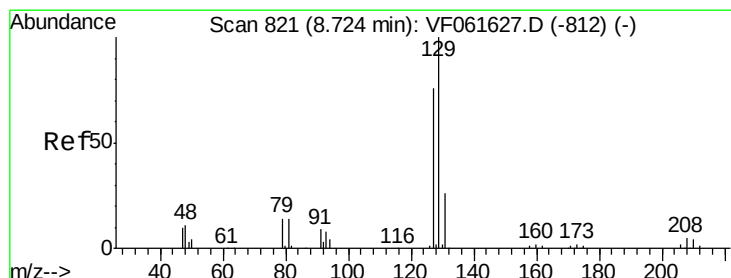
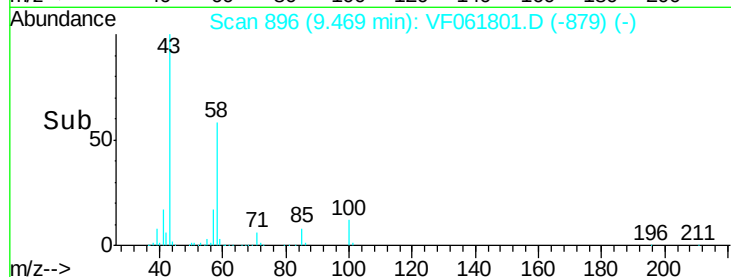
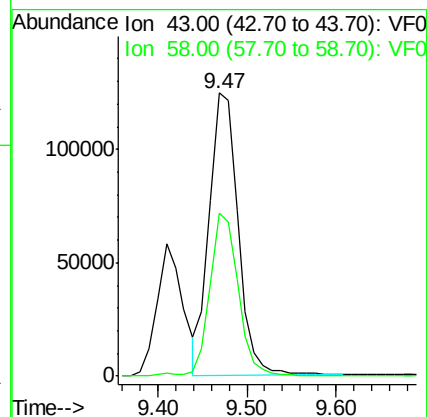
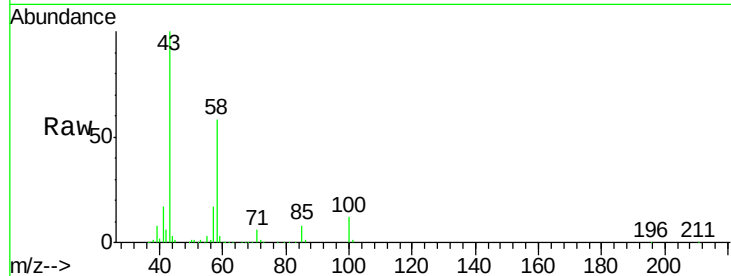
58 57.8 28.5 85.5

Manual Integrations

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MMDadoda

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#60

Dibromochloromethane

Concen: 49.755 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.02 min

Lab File: VF061801.D

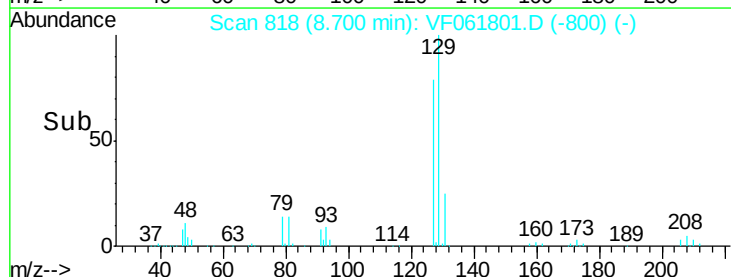
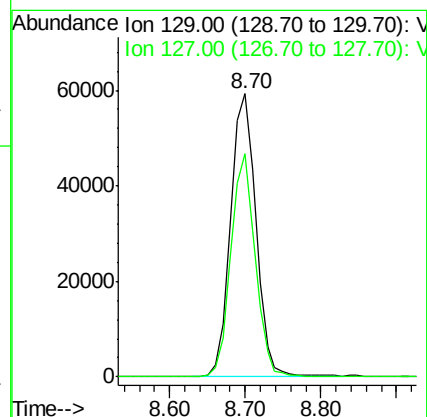
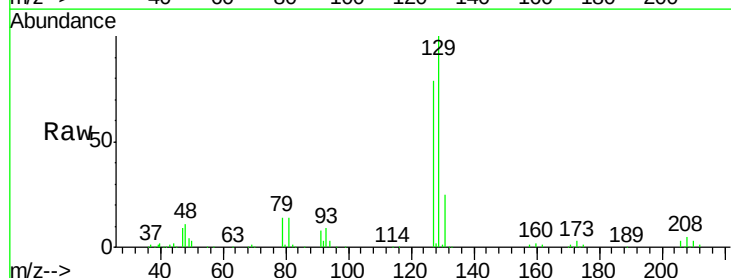
Acq: 1 Mar 2019 12:59

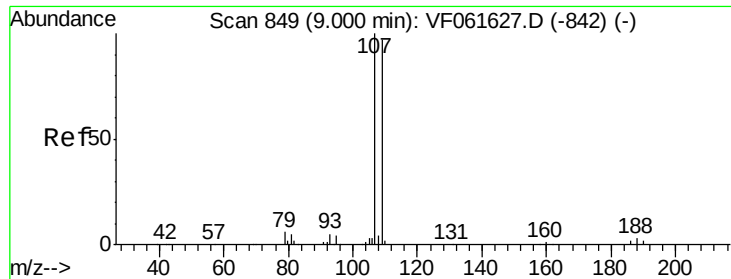
Tgt Ion: 129 Resp: 137653

Ion Ratio Lower Upper

129 100

127 78.7 37.8 113.4





#61

1,2-Dibromoethane

Concen: 47.864 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 103189

Ion Ratio Lower Upper

107 100

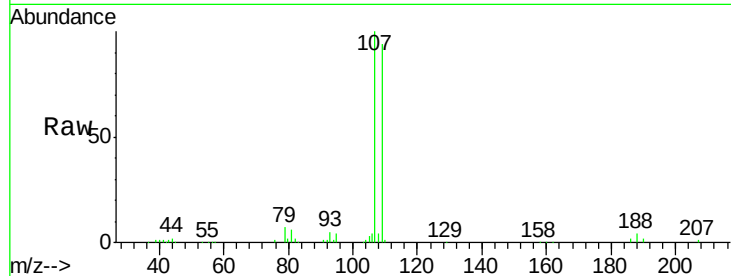
109 94.0 77.4 116.0

Manual Integrations

APPROVED

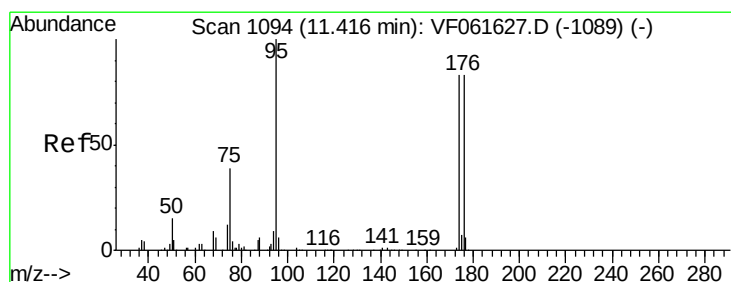
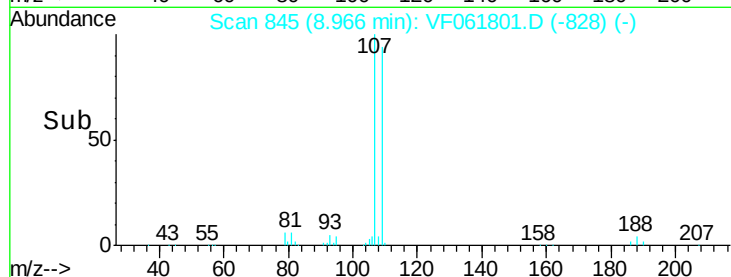
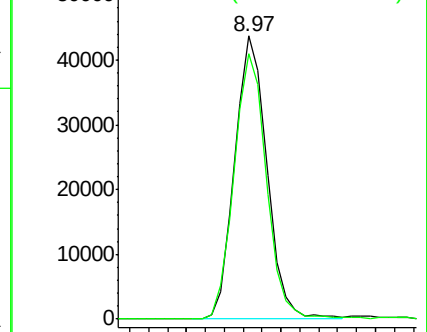
MMDadoda

3/4/2019 4:00:25 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.194 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

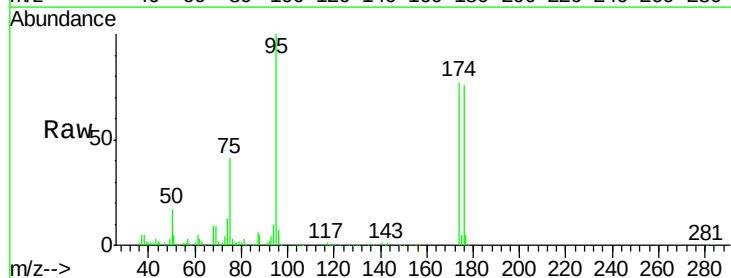
Tgt Ion: 95 Resp: 197801

Ion Ratio Lower Upper

95 100

174 76.9 0.0 165.8

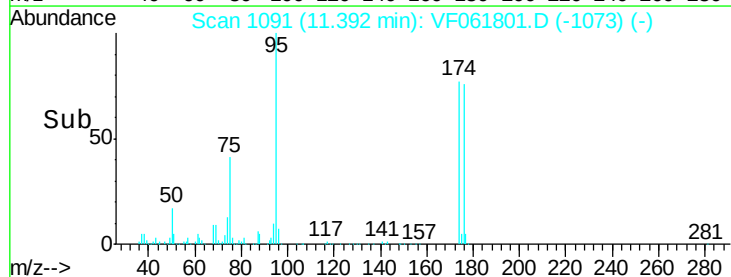
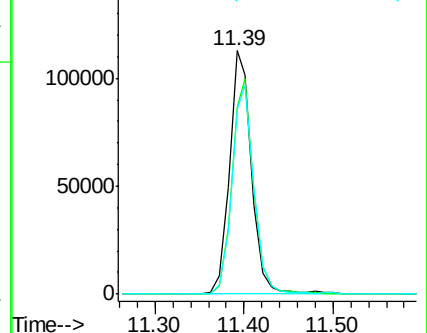
176 76.1 0.0 167.0

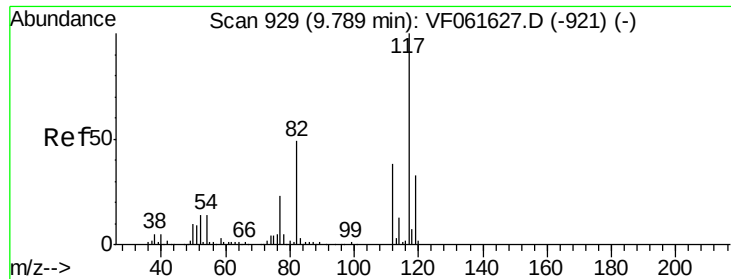


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





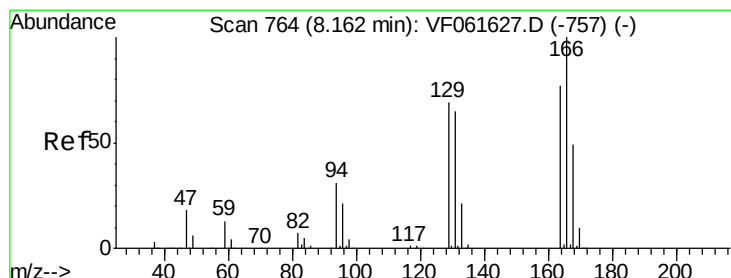
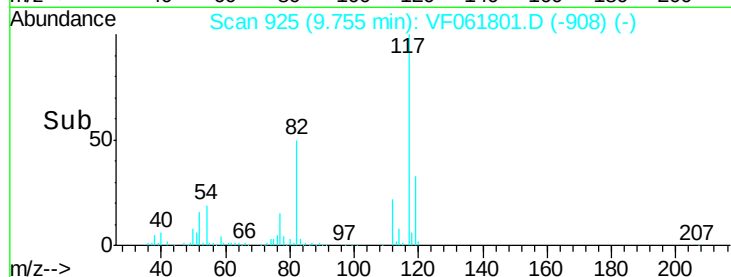
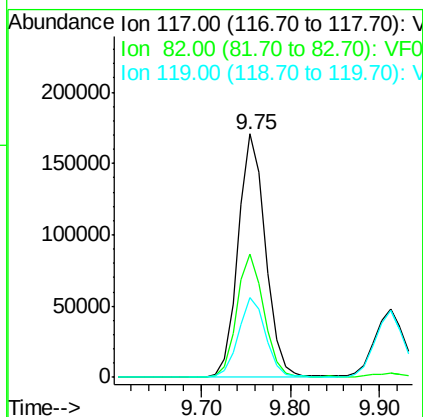
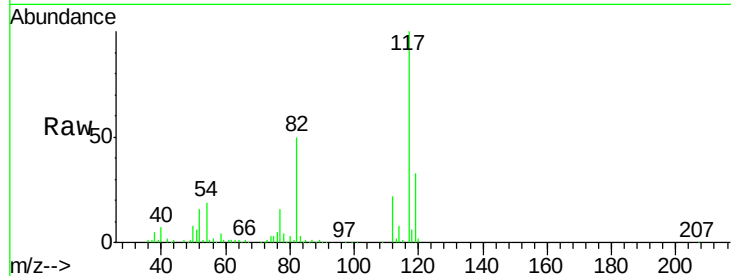
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	366658		
82	50.5	39.3	58.9	
119	32.9	26.6	40.0	

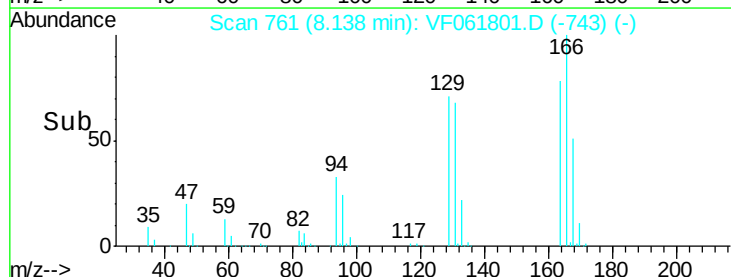
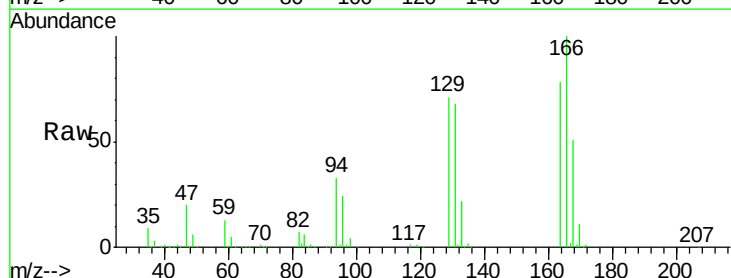
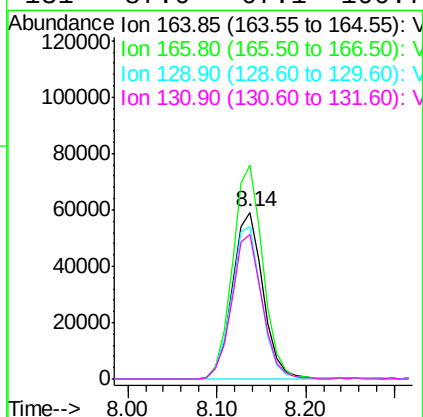
Manual Integrations
APPROVED

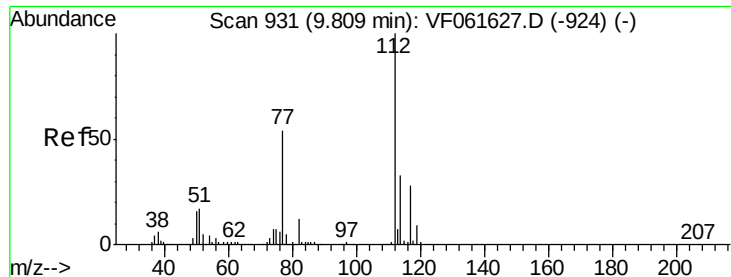
MMDadoda
3/4/2019 4:00:25 PM



#64
Tetrachloroethene
Concen: 47.652 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	142814		
166	128.1	103.9	155.9	
129	91.0	71.3	106.9	
131	87.0	67.1	100.7	





#65

Chlorobenzene

Concen: 49.316 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.03 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 366926

Ion Ratio Lower Upper

112 100

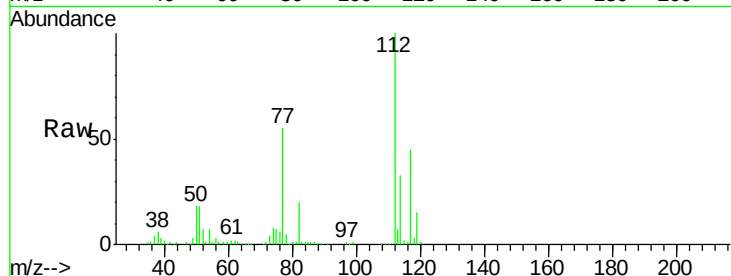
114 33.1 26.2 39.2

Manual Integrations

APPROVED

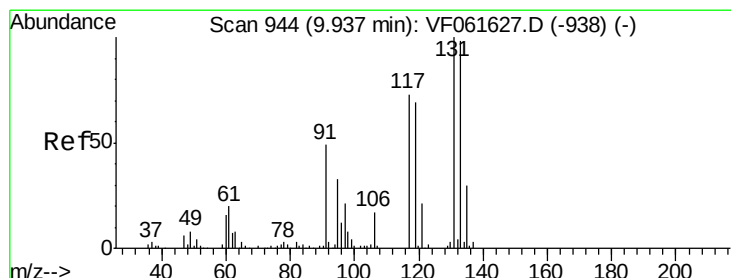
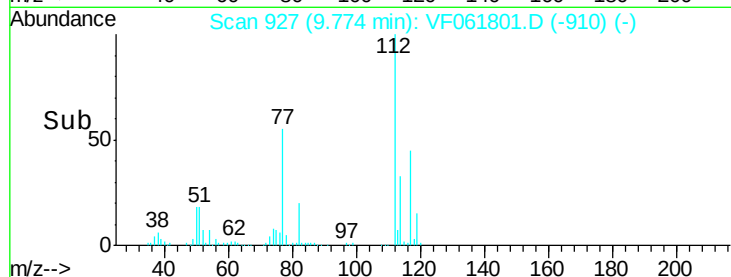
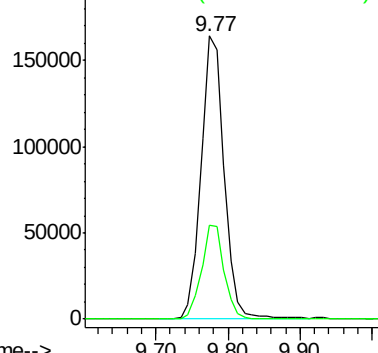
MMDadoda

3/4/2019 4:00:25 PM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 51.732 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

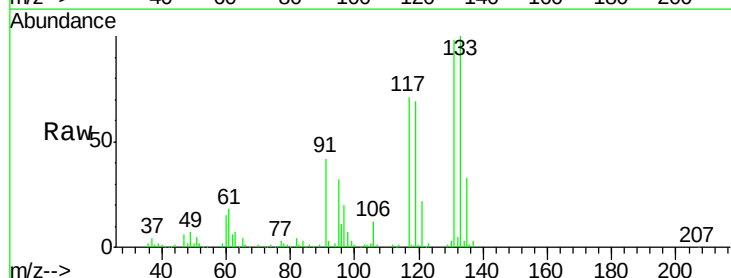
Tgt Ion:131 Resp: 150823

Ion Ratio Lower Upper

131 100

133 101.5 48.9 146.6

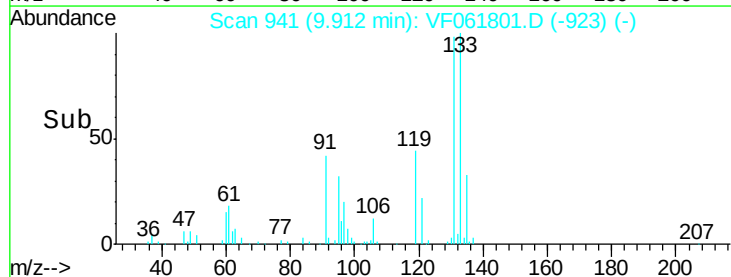
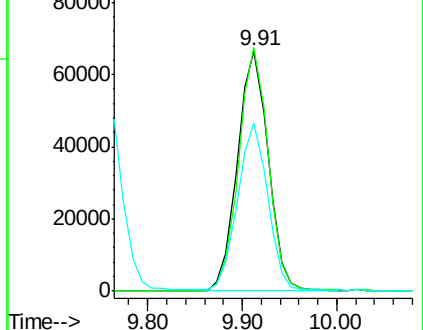
119 70.2 34.8 104.3

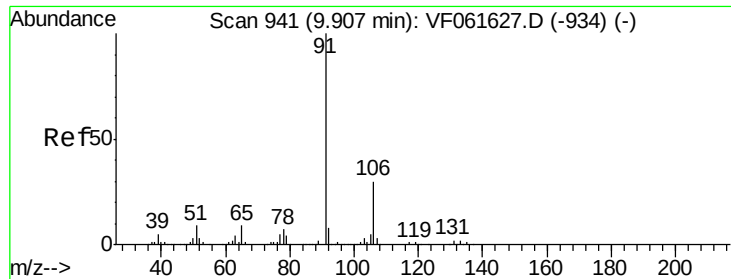


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





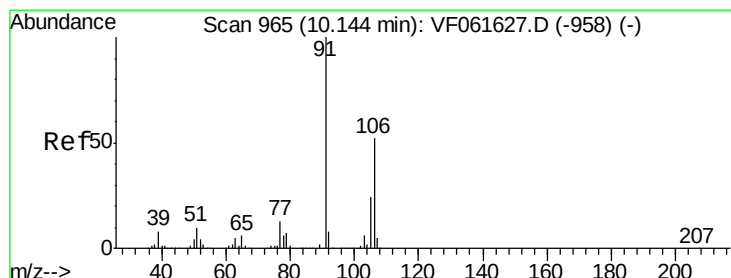
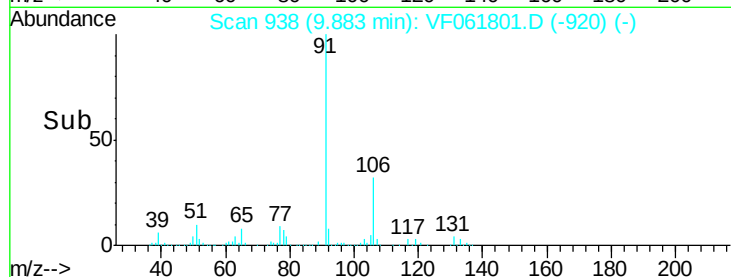
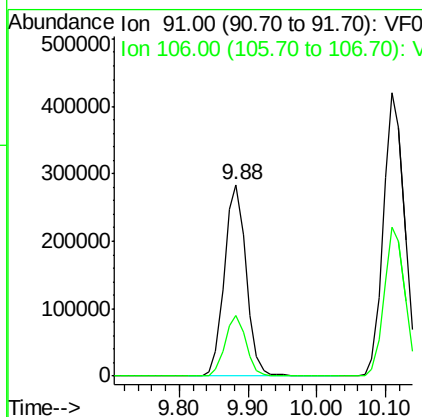
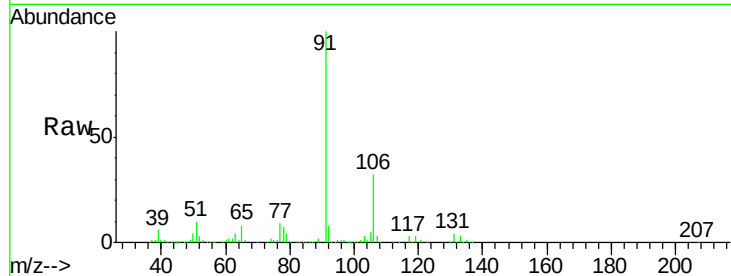
#67
Ethyl Benzene
Concen: 50.411 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 623747
Ion Ratio Lower Upper
91 100
106 31.6 24.1 36.1

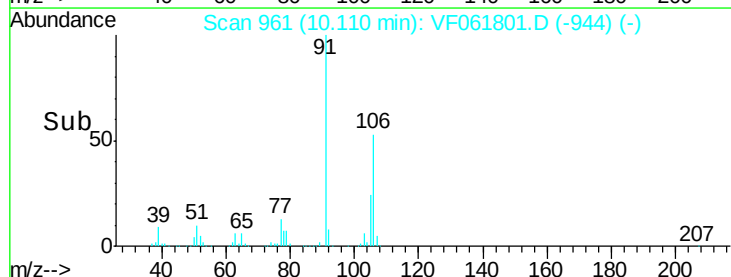
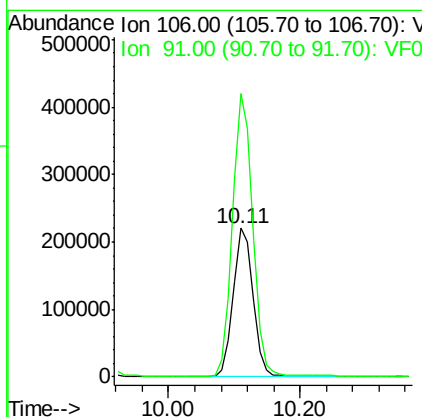
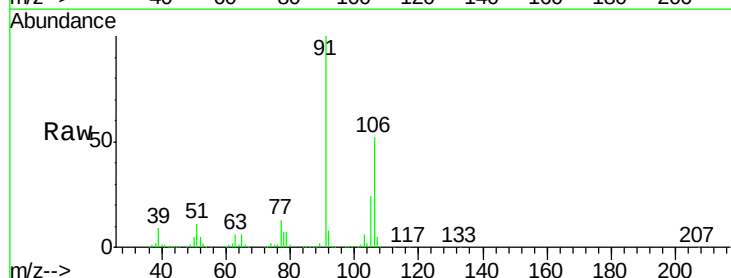
Manual Integrations
APPROVED

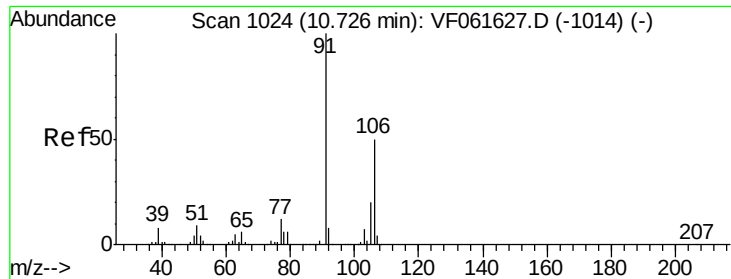
MMDadoda
3/4/2019 4:00:25 PM



#68
m/p-Xylenes
Concen: 99.718 ug/l
RT: 10.11 min Scan# 961
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion: 106 Resp: 472204
Ion Ratio Lower Upper
106 100
91 190.7 153.0 229.6





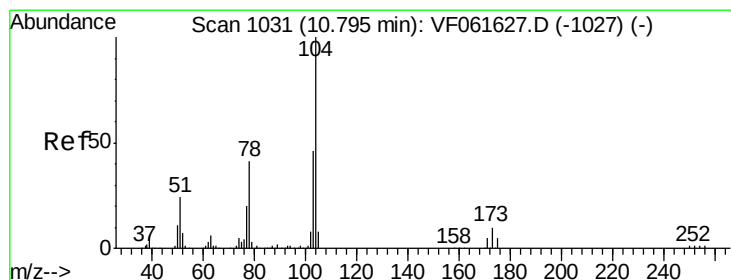
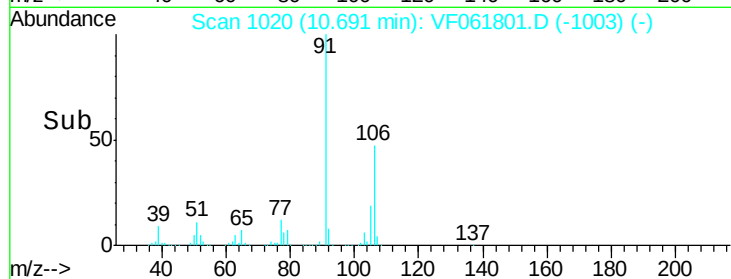
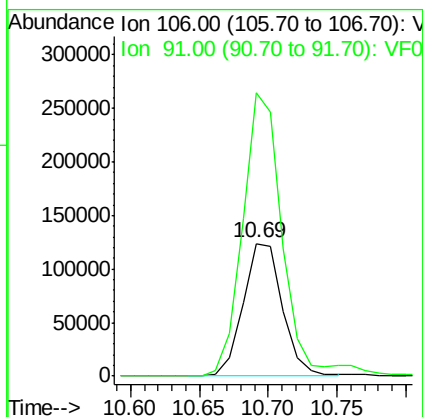
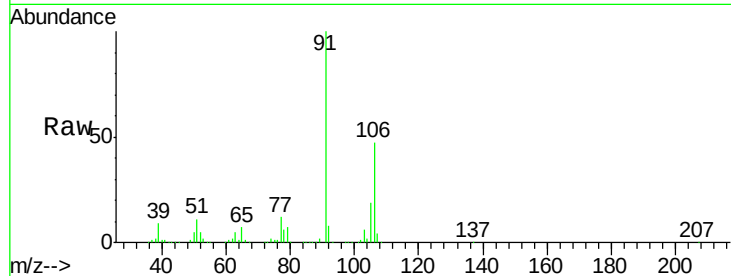
#69
o-Xylene
Concen: 49.032 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.0	100.1	300.1

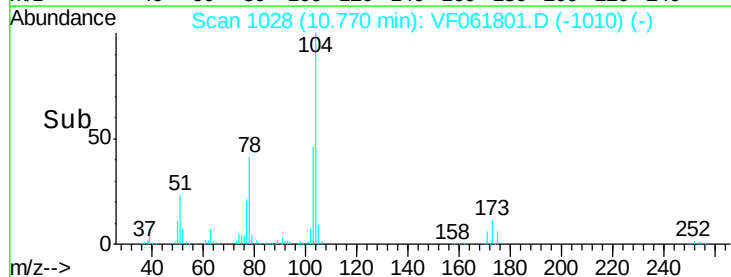
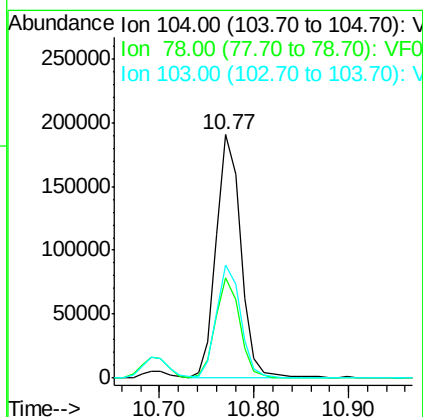
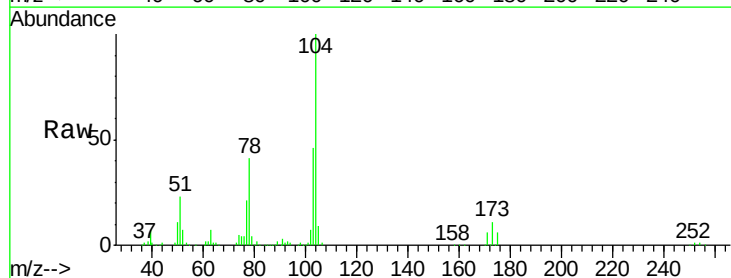
Manual Integrations
APPROVED

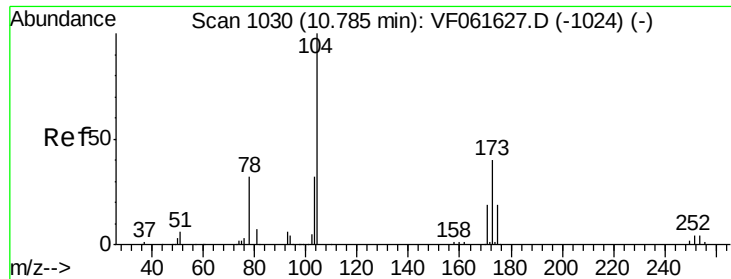
MMDadoda
3/4/2019 4:00:25 PM



#70
Styrene
Concen: 48.458 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.3	33.2	49.8
103	46.3	37.2	55.8





#71

Bromoform

Concen: 48.075 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

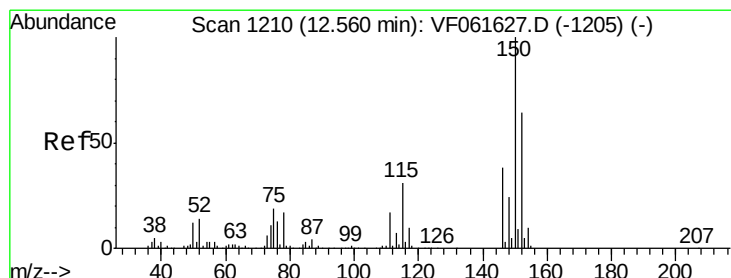
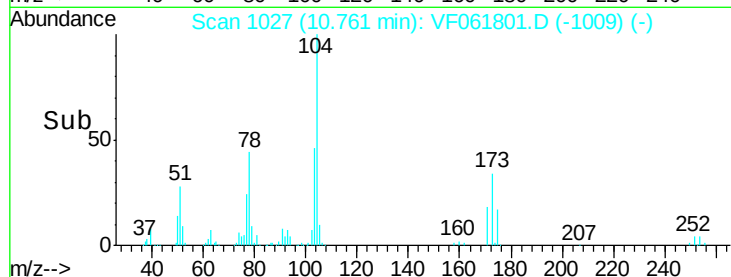
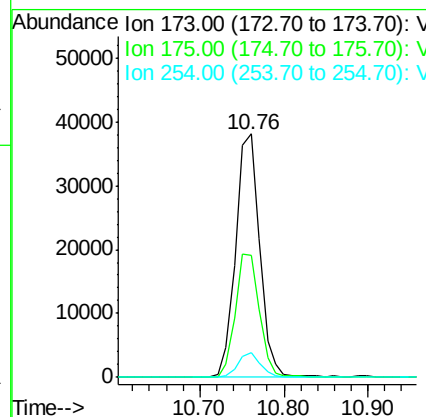
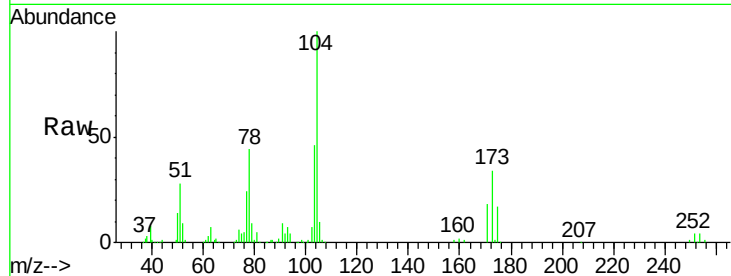
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.0	72.0
254	10.4	8.2	12.2

Manual Integrations
APPROVED

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3/4/2019 4:00:25 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

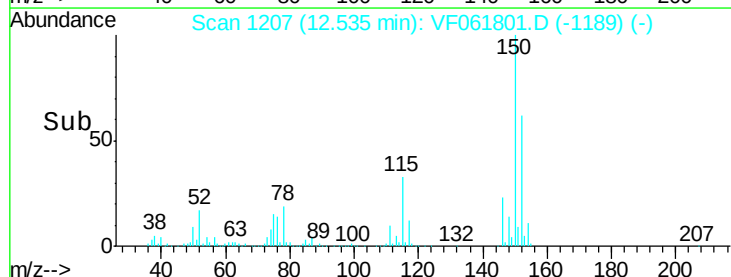
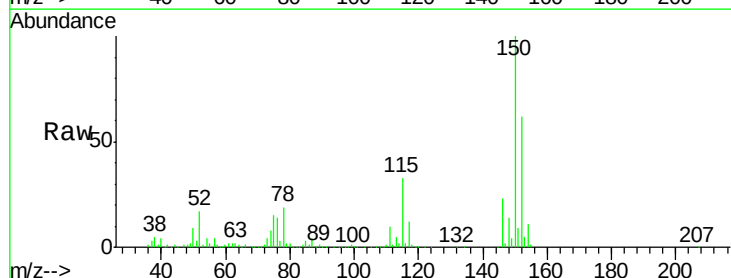
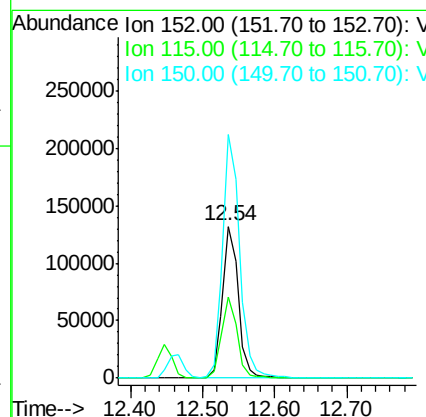
RT: 12.54 min Scan# 1207

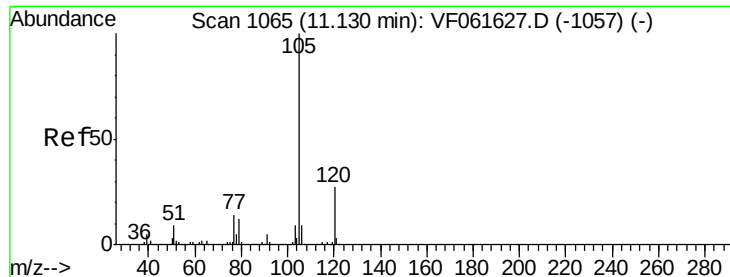
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.1	24.3	72.8
150	160.5	0.0	312.0





#73

Isopropylbenzene

Concen: 47.946 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 682499

Ion Ratio Lower Upper

105 100

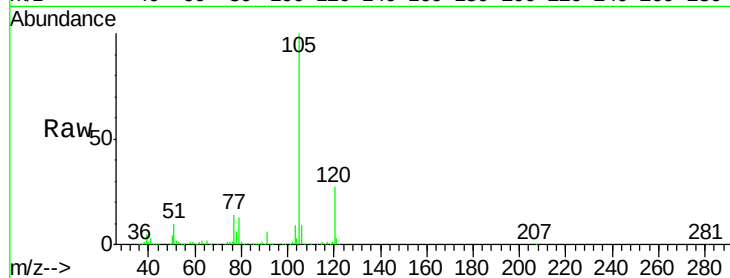
120 26.7 13.4 40.1

Manual Integrations

APPROVED

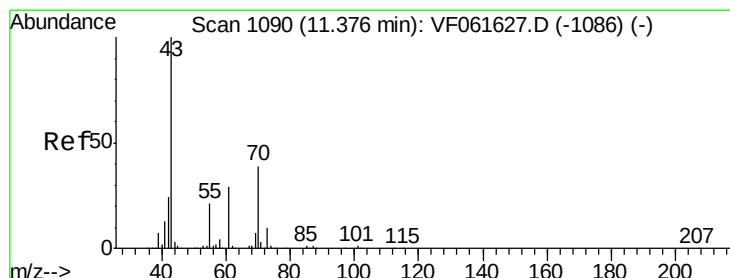
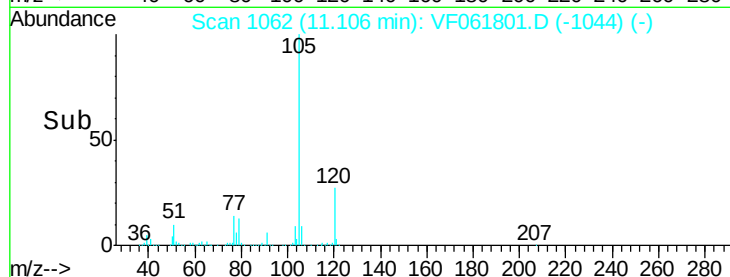
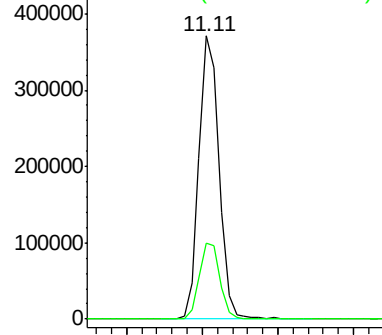
MMDadoda

3/4/2019 4:00:25 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 47.302 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion: 43 Resp: 161613

Ion Ratio Lower Upper

43 100

70 41.5 31.5 47.3

55 19.8 16.7 25.1

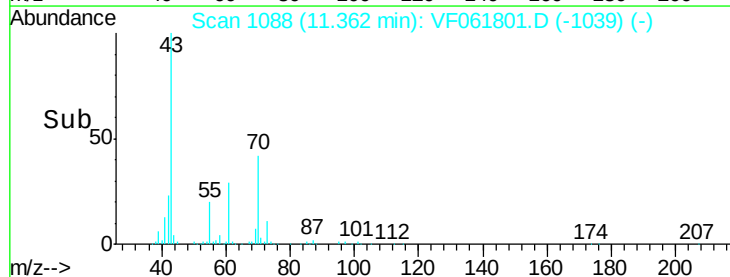
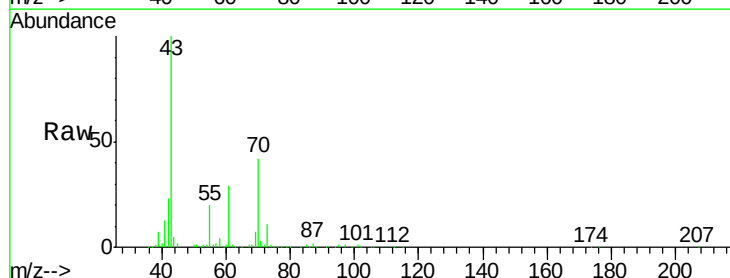
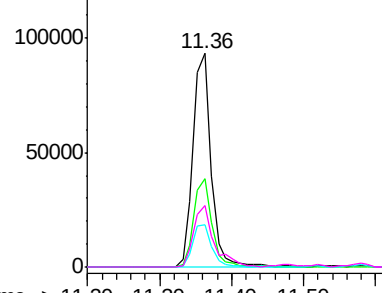
61 28.9 23.0 34.6

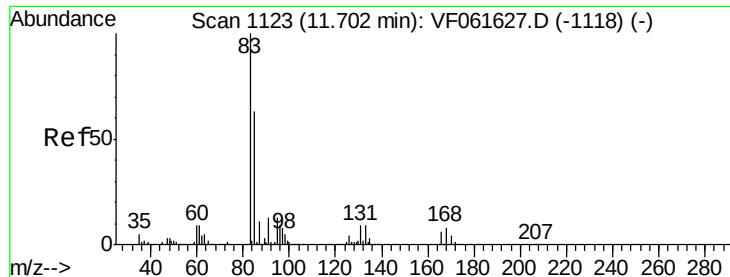
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 49.235 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

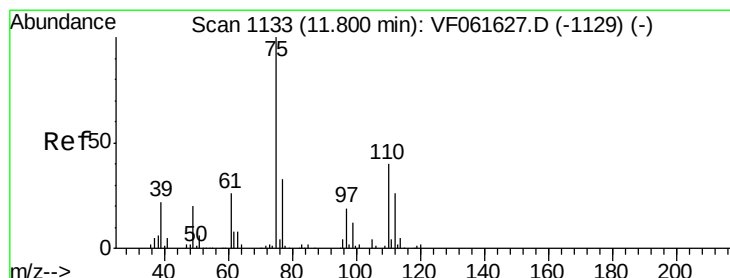
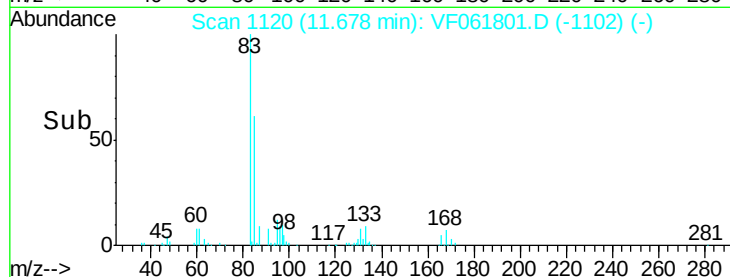
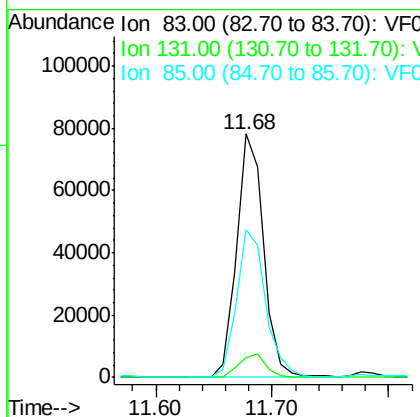
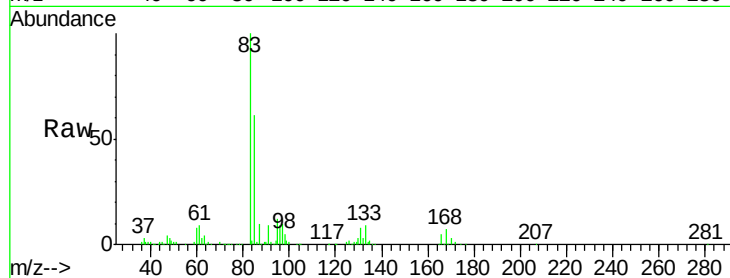
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	125559
Ion Ratio	Lower	Upper	
83	100		
131	8.1	4.4	13.2
85	60.7	31.5	94.5

Manual Integrations
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3/4/2019 4:00:25 PM



#76

1,2,3-Trichloropropane

Concen: 47.119 ug/l

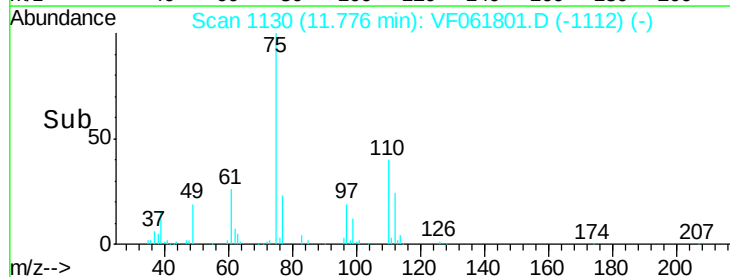
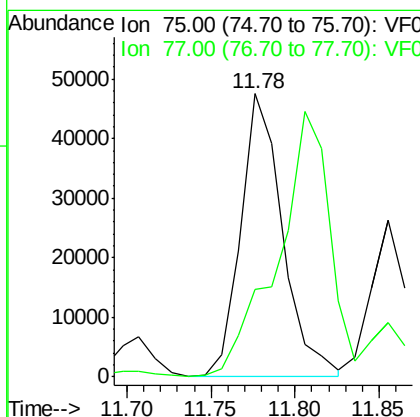
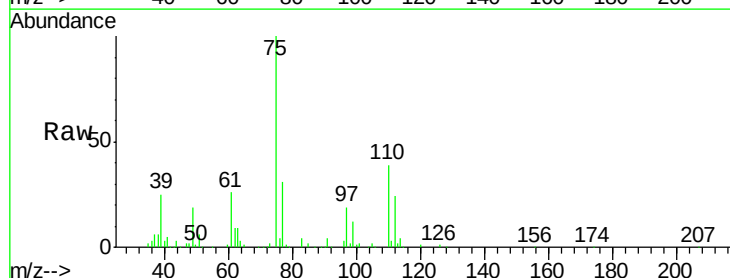
RT: 11.78 min Scan# 1130

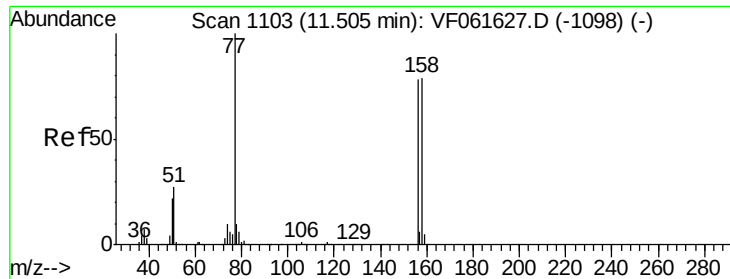
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	75	Resp:	81696
Ion Ratio	Lower	Upper	
75	100		
77	31.1	16.6	49.7





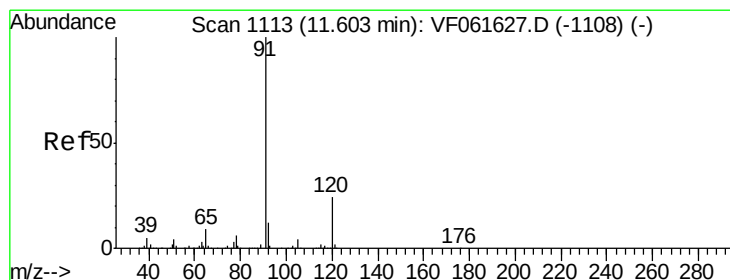
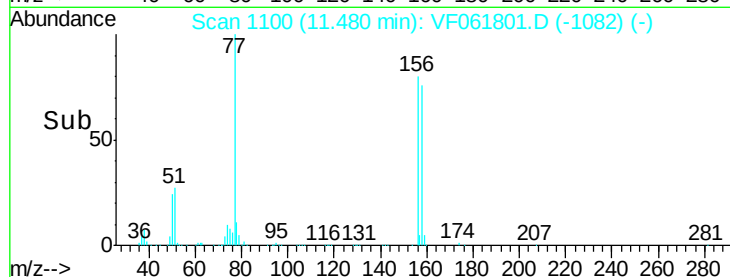
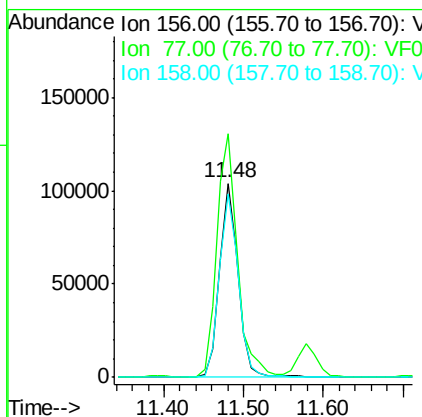
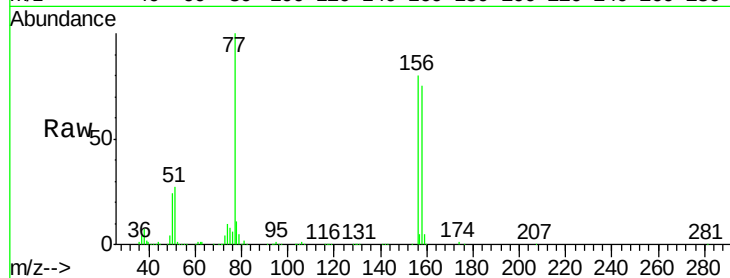
#77
Bromobenzene
Concen: 48.952 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	125.5	64.3	192.7
158	94.6	50.9	152.7

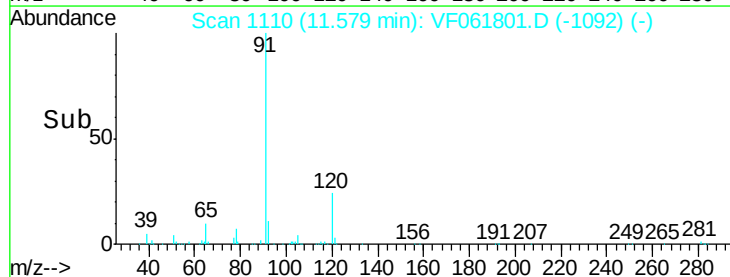
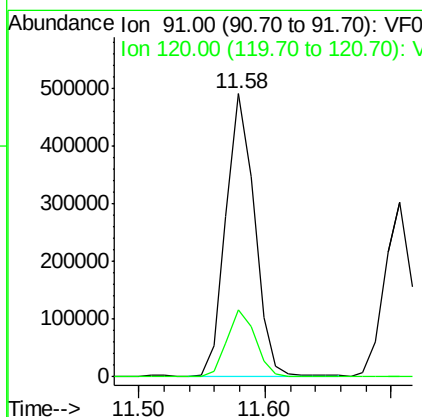
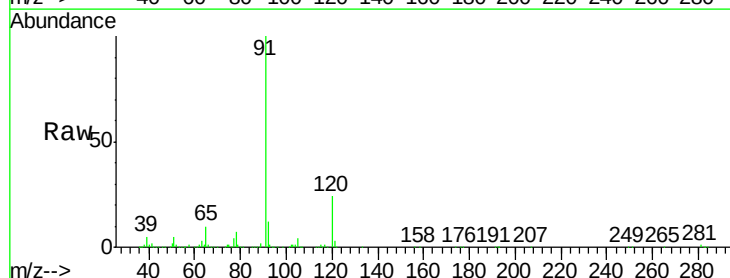
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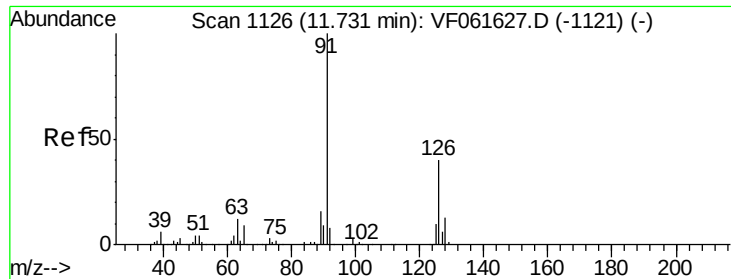
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#78
n-propylbenzene
Concen: 47.421 ug/l
RT: 11.58 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.8	12.1	36.3





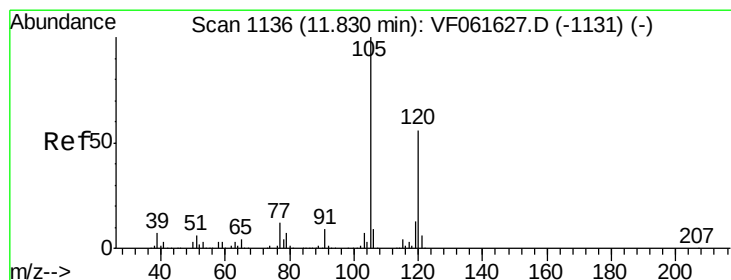
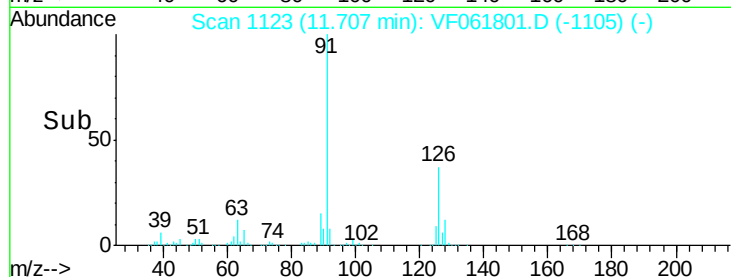
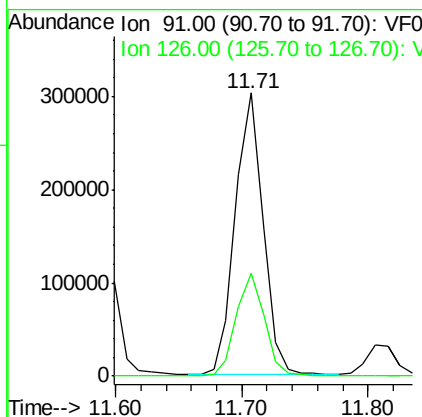
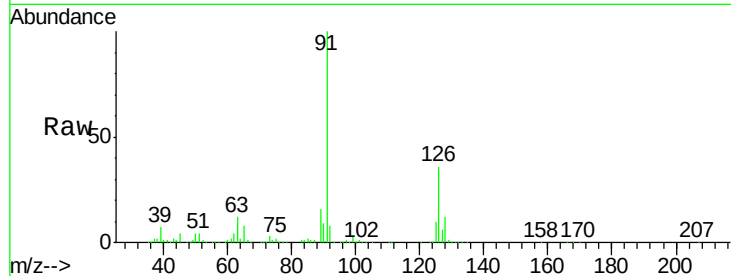
#79
2-Chlorotoluene
Concen: 50.359 ug/l
RT: 11.71 min Scan# 1123
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 460697
Ion Ratio Lower Upper
91 100
126 36.4 19.8 59.4

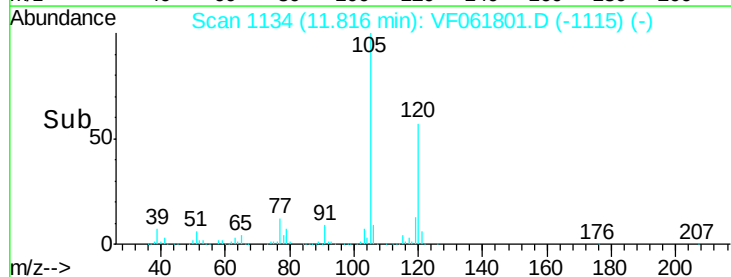
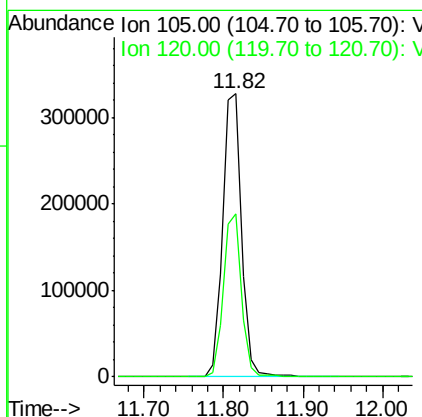
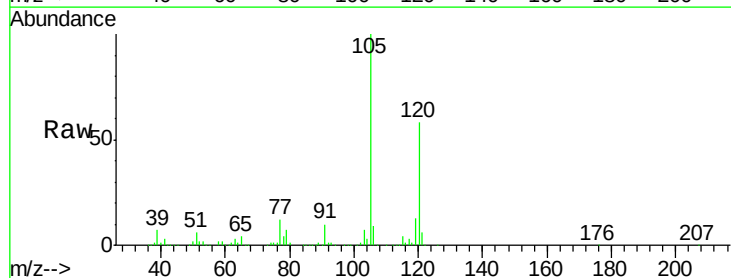
Manual Integrations
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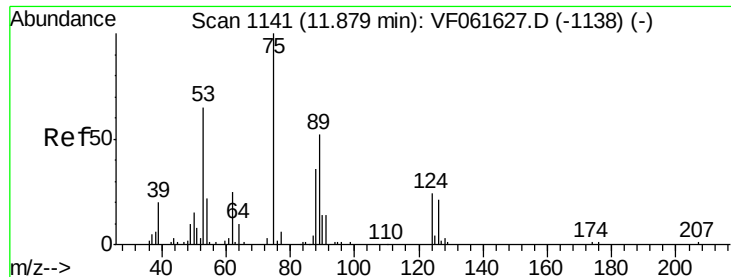
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#80
1,3,5-Trimethylbenzene
Concen: 48.662 ug/l
RT: 11.82 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion: 105 Resp: 553615
Ion Ratio Lower Upper
105 100
120 57.5 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 48.266 ug/l m

RT: 11.86 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

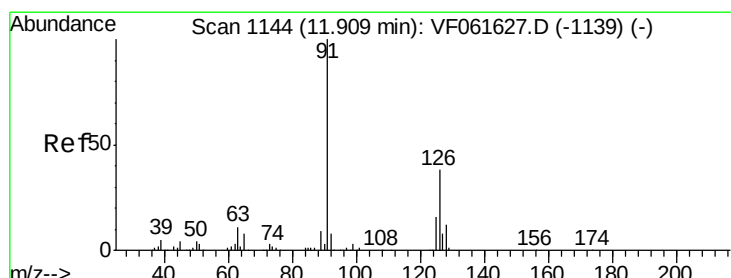
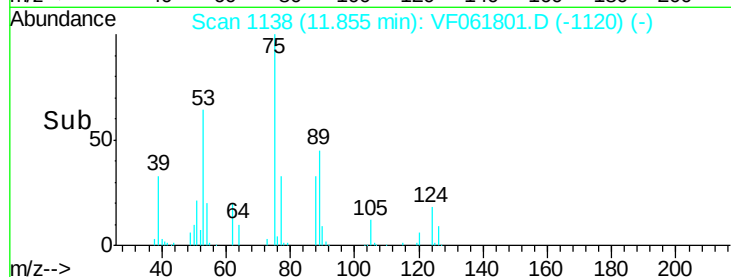
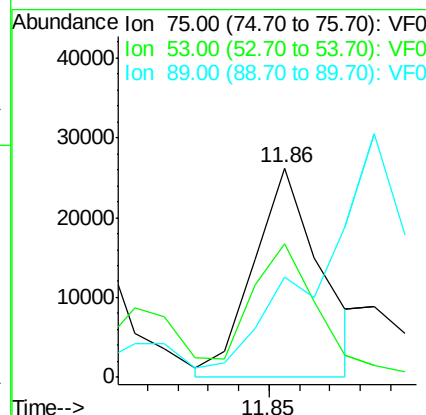
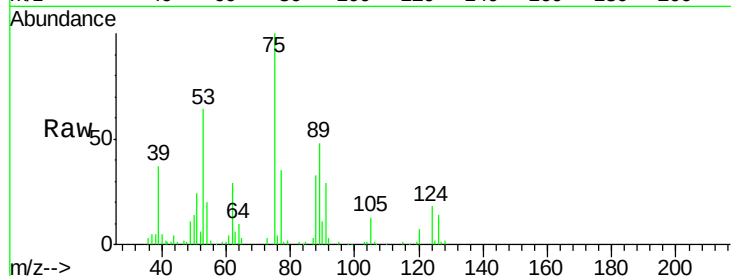
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	40120
Ion	Ratio	Lower	Upper
75	100		
53	63.7	53.7	80.5
89	48.1	41.6	62.4

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#82

4-Chlorotoluene

Concen: 48.510 ug/l

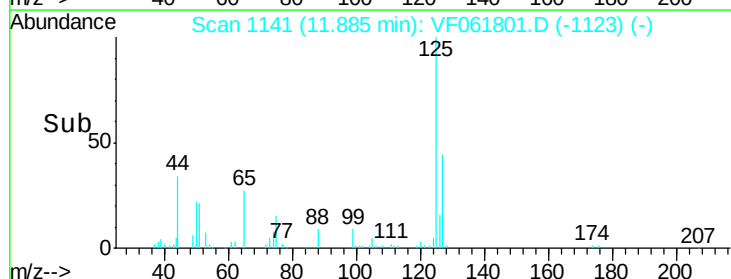
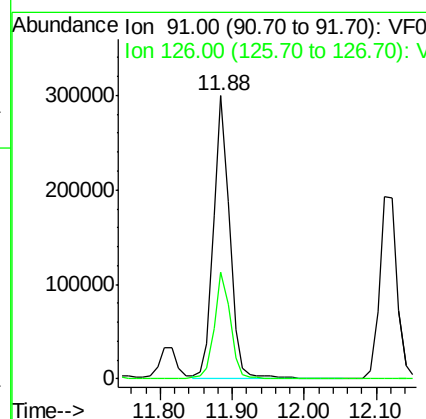
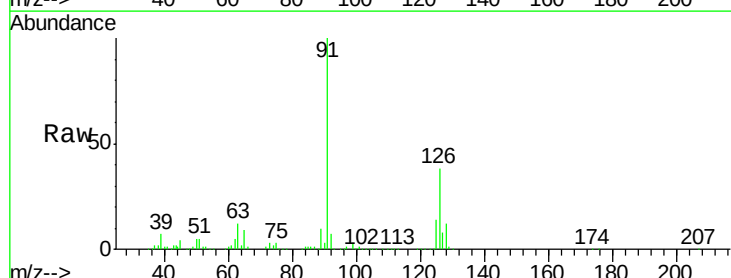
RT: 11.88 min Scan# 1141

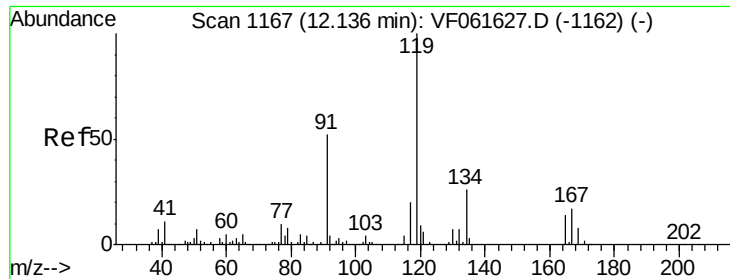
Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	91	Resp:	460615
Ion	Ratio	Lower	Upper
91	100		
126	37.6	19.1	57.1





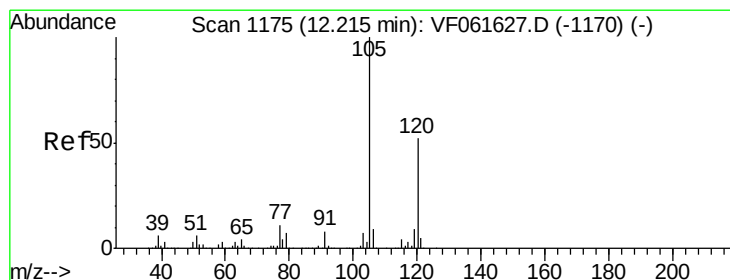
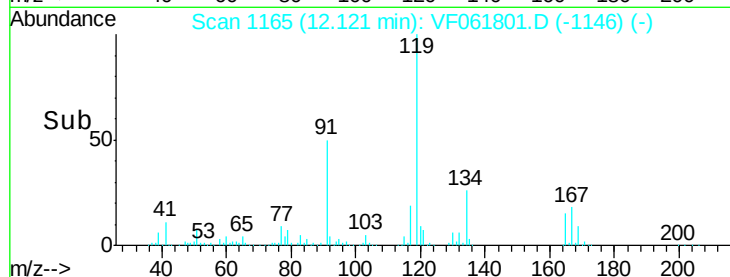
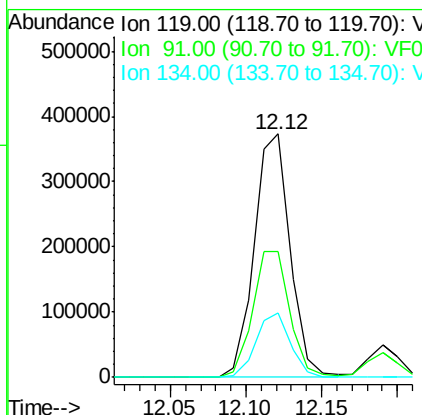
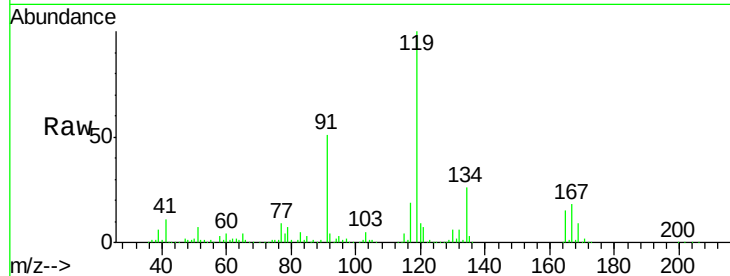
#83
 tert-Butylbenzene
 Concen: 49.061 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.01 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	618215		
91	51.5	26.3	78.8	
134	26.2	12.9	38.7	

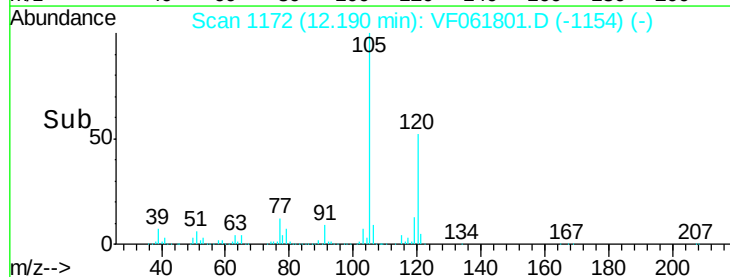
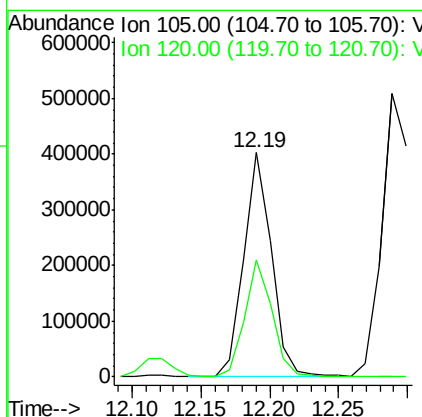
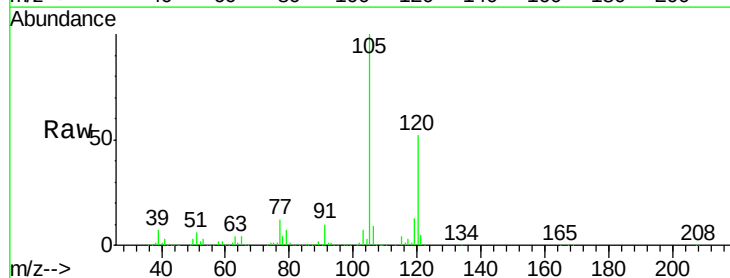
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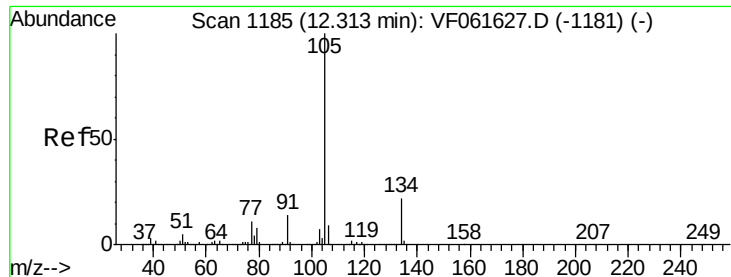
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.243 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	567885		
120	51.9	26.1	78.3	





#85

sec-Butylbenzene

Concen: 47.971 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 781689

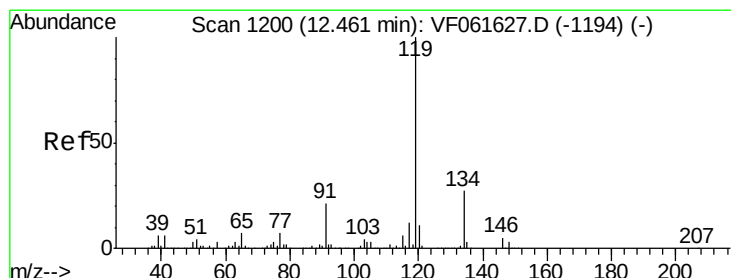
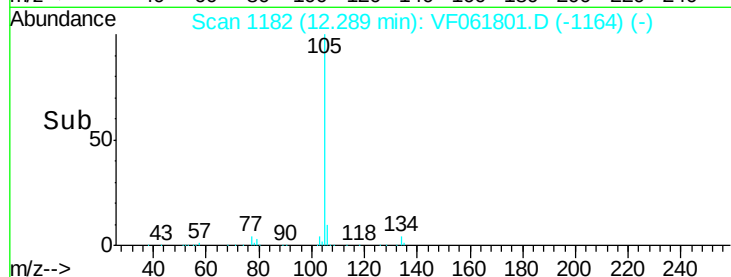
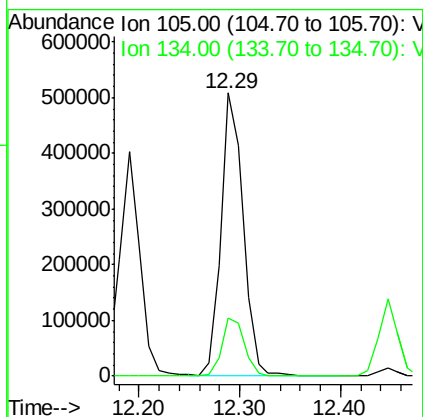
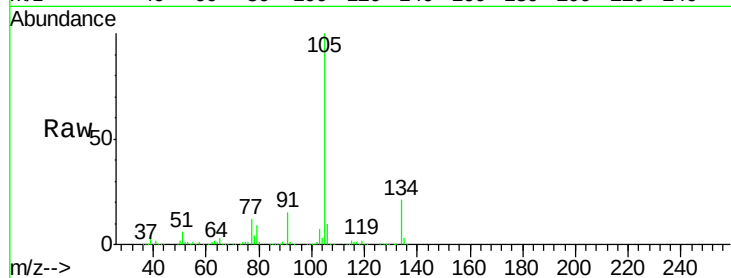
Ion Ratio Lower Upper

105 100

134 20.6 10.8 32.4

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#86

p-Isopropyltoluene

Concen: 50.037 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

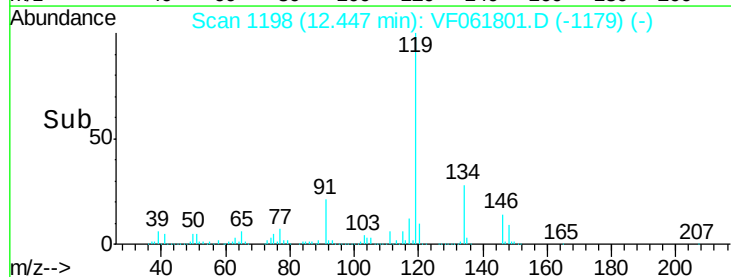
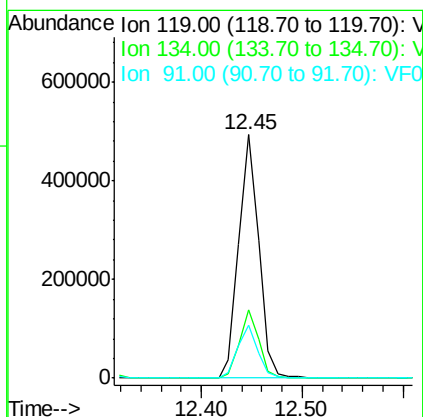
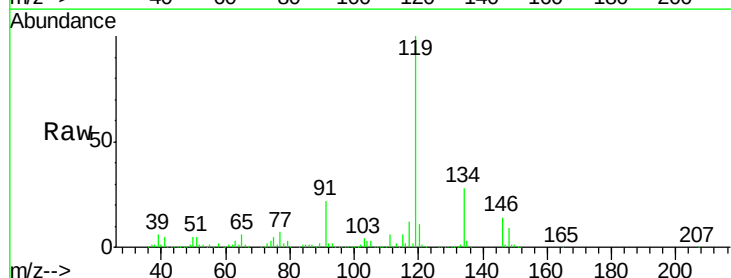
Tgt Ion:119 Resp: 684290

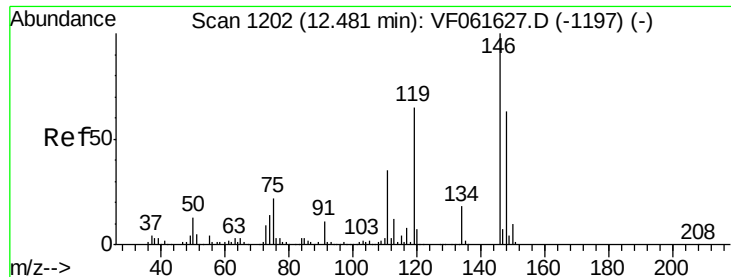
Ion Ratio Lower Upper

119 100

134 28.3 13.7 41.1

91 21.5 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 47.819 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

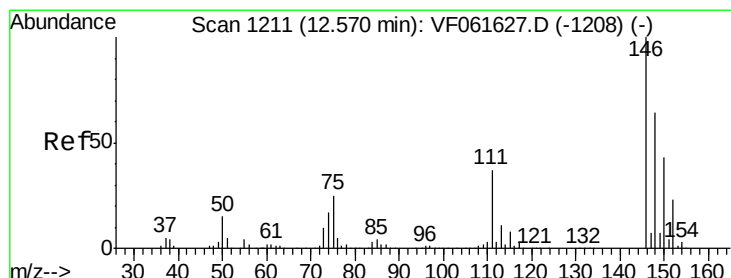
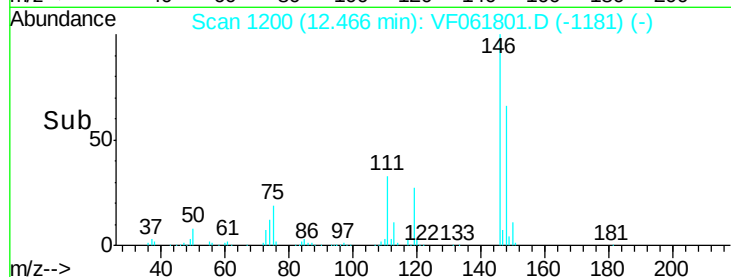
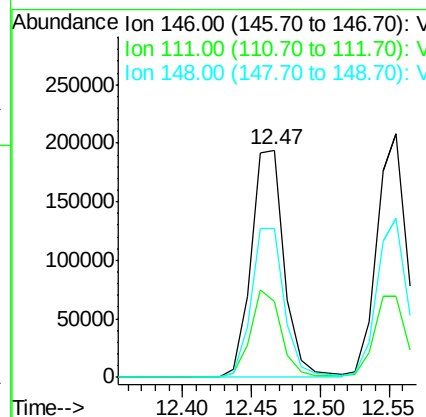
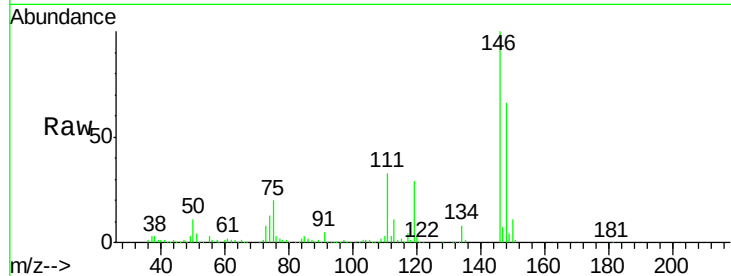
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	327830
Ion Ratio	Lower	Upper	
146	100		
111	33.4	17.5	52.6
148	65.6	31.4	94.3

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#88

1,4-Dichlorobenzene

Concen: 49.533 ug/l

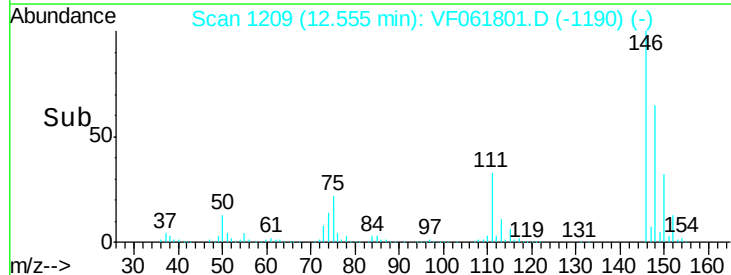
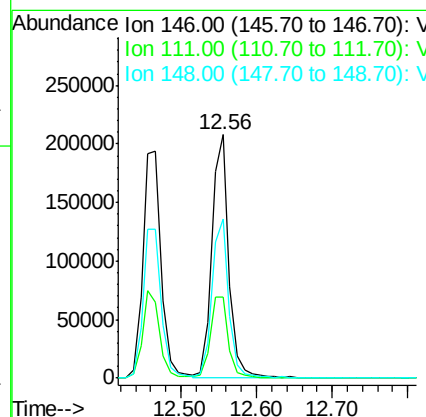
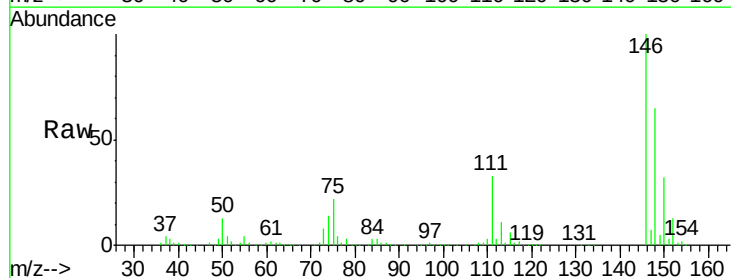
RT: 12.56 min Scan# 1209

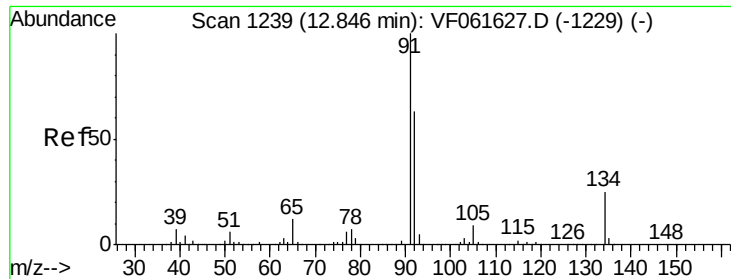
Delta R.T. -0.01 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	146	Resp:	326578
Ion Ratio	Lower	Upper	
146	100		
111	33.4	18.4	55.4
148	65.1	32.2	96.6





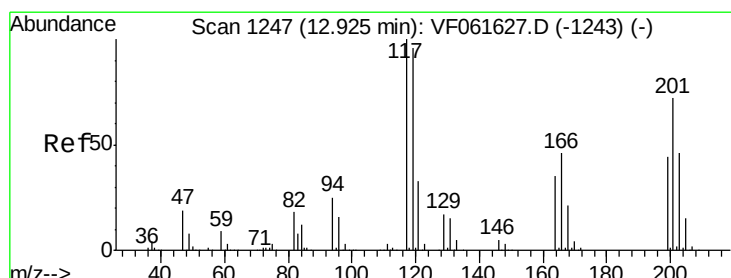
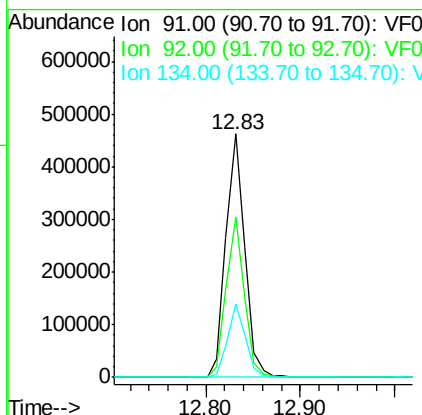
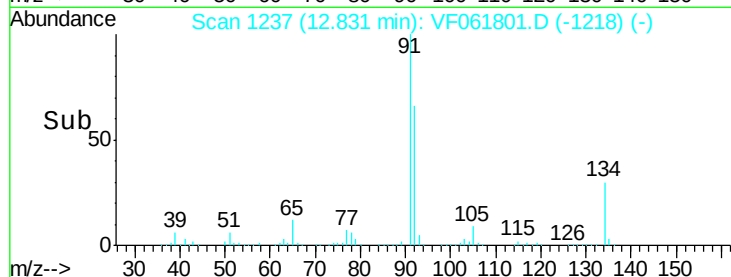
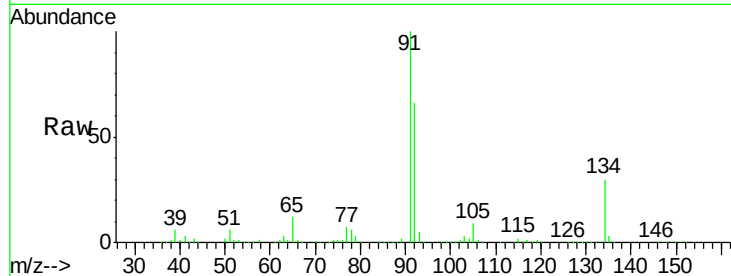
#89
n-Butylbenzene
Concen: 49.486 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
92	65.9	31.4	94.3		
134	30.1	12.3	36.9		

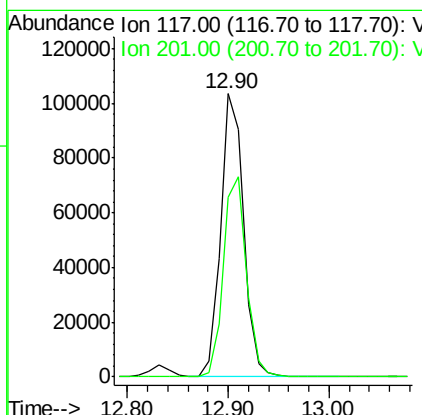
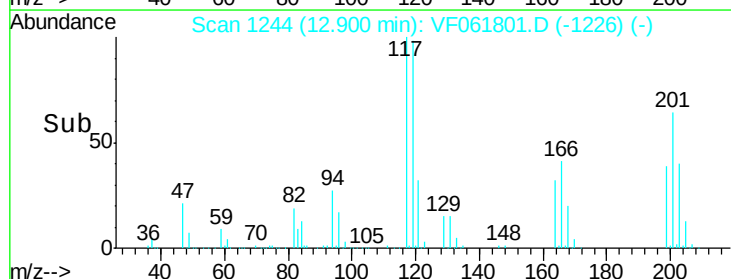
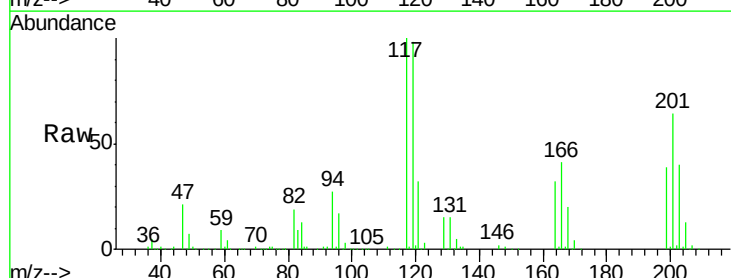
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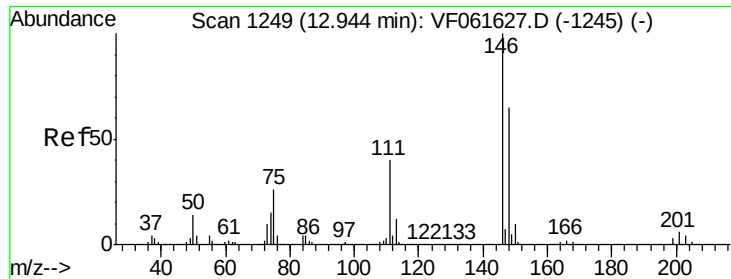
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#90
Hexachloroethane
Concen: 51.687 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF061801.D
Acq: 1 Mar 2019 12:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100				
201	63.6	36.2	108.6		





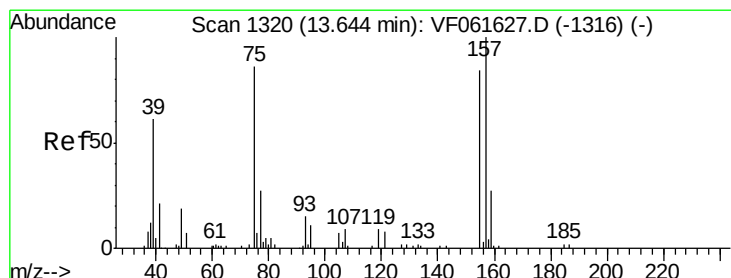
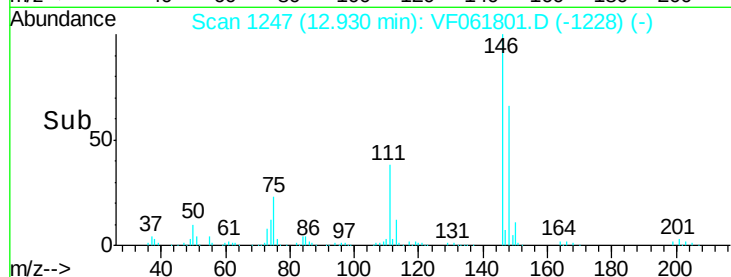
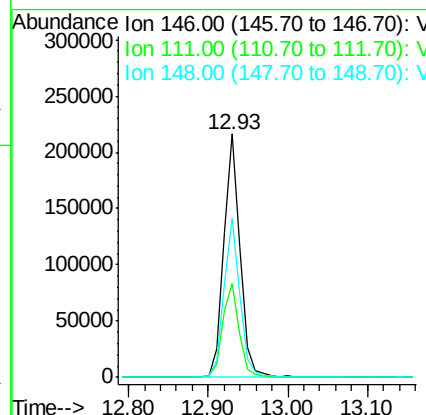
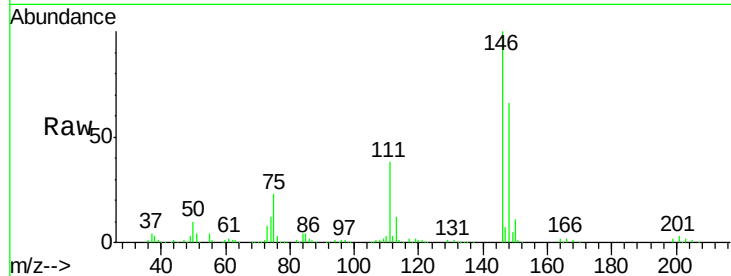
#91
 1,2-Dichlorobenzene
 Concen: 47.974 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	312827		
111	38.4	20.2	60.5	
148	65.6	32.3	96.9	

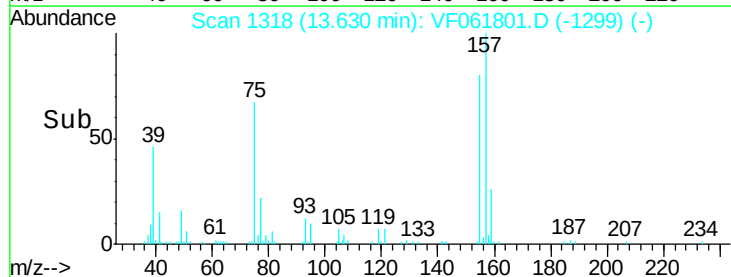
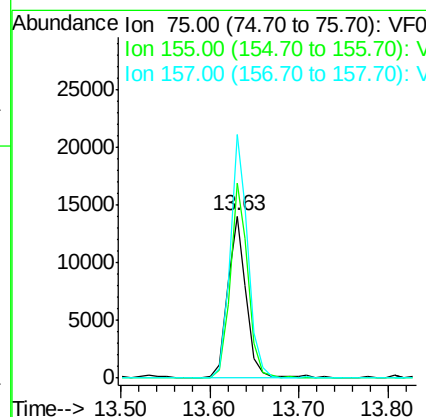
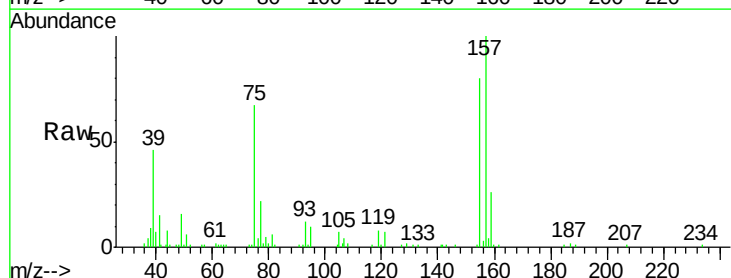
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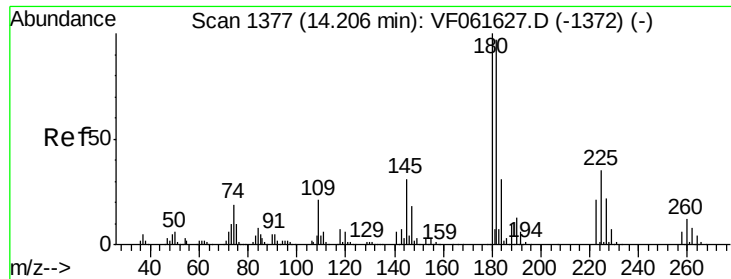
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.028 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20632		
155	120.4	48.9	146.8	
157	150.3	58.3	174.8	





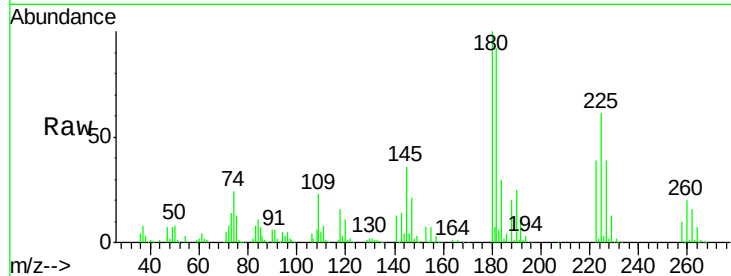
#93
 1,2,4-Trichlorobenzene
 Concen: 47.470 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

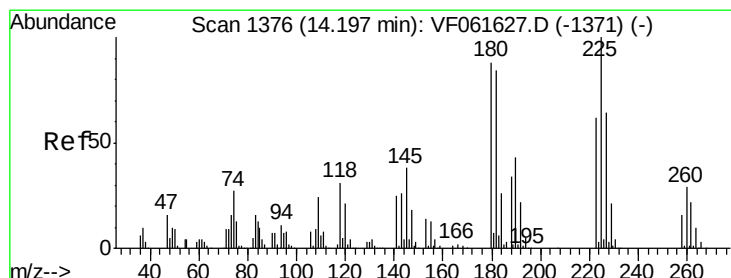
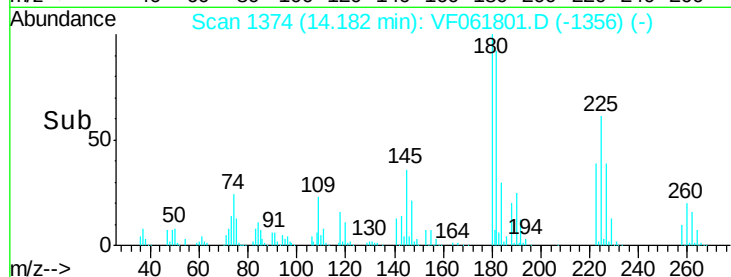
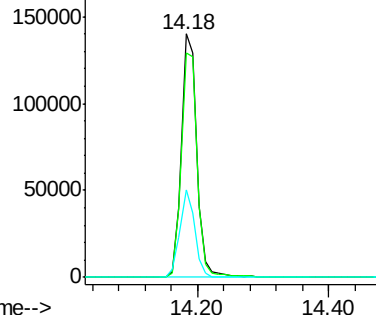
Tot Ion	Ratio	Resp	Lower	Upper
180	100	221872		
182	92.1	48.6	145.9	
145	35.9	15.3	45.9	

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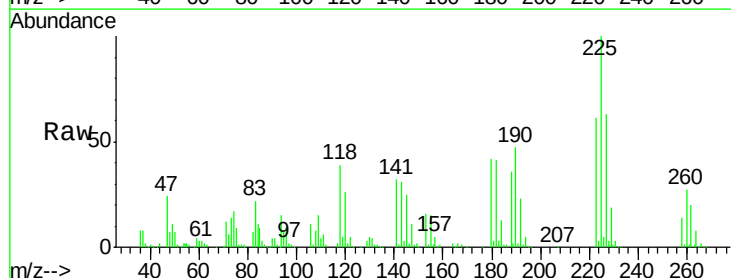


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

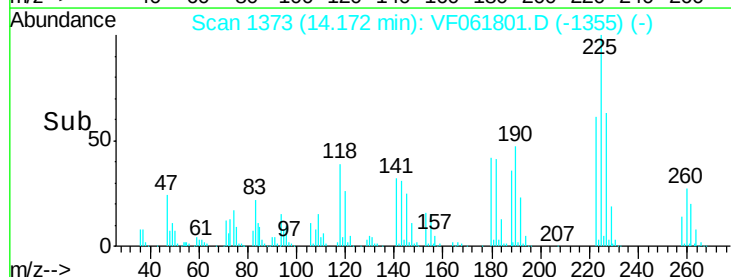
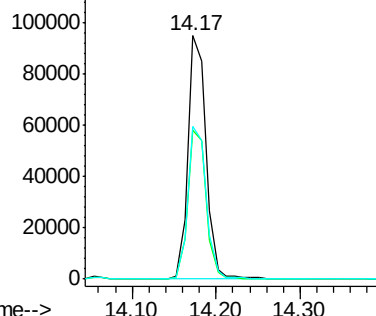


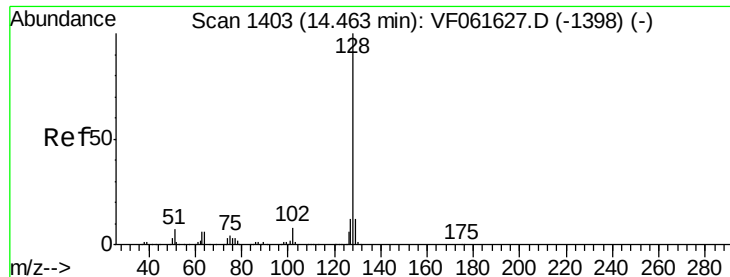
#94
 Hexachlorobutadiene
 Concen: 49.194 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.02 min
 Lab File: VF061801.D
 Acq: 1 Mar 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	142004		
223	61.3	30.9	92.7	
227	63.0	32.1	96.3	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 48.574 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Instrument :

MSVOA_F

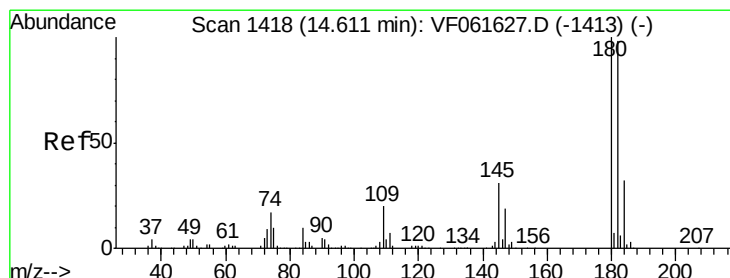
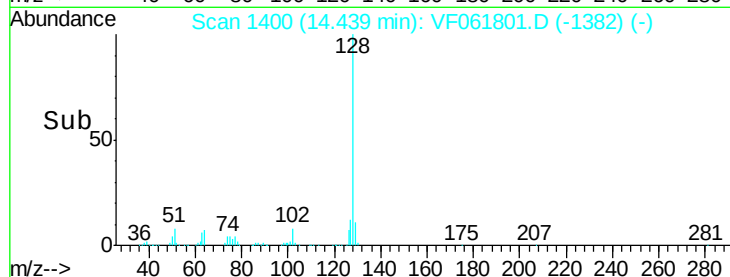
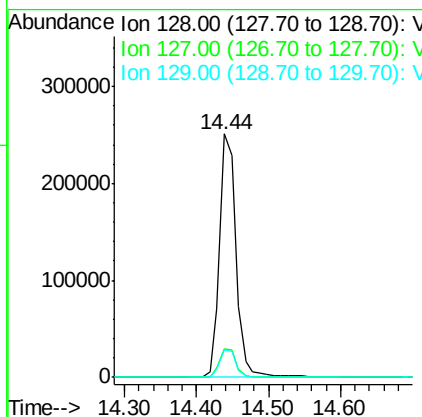
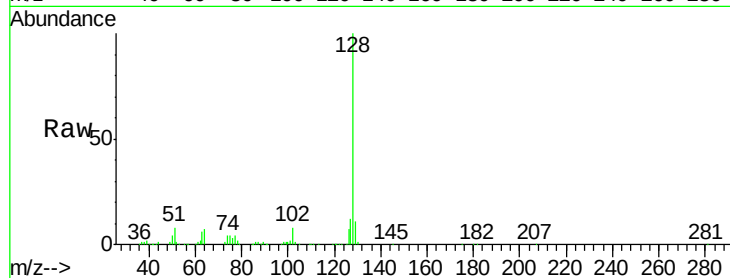
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	397220
Ion Ratio	Lower	Upper	
128	100		
127	11.9	9.8	14.6
129	11.4	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
3/4/2019 4:00:25 PM



#96

1,2,3-Trichlorobenzene

Concen: 48.163 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF061801.D

Acq: 1 Mar 2019 12:59

Tgt Ion:	180	Resp:	206617
Ion Ratio	Lower	Upper	
180	100		
182	96.9	49.0	147.2
145	35.0	15.4	46.1

