

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042619\
 Data File : VF062312.D
 Acq On : 26 Apr 2019 19:17
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 4/29/2019 3:59:56 PM

Quant Time: Apr 27 01:21:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.09	168	355136	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.81	114	510329	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.94	117	367249	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	203030	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.07	65	154362	53.66	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.32%	
35) Dibromofluoromethane	4.34	113	184205	48.68	ug/l	0.02
Spiked Amount	50.000		Recovery	=	97.36%	
50) Toluene-d8	7.75	98	430808	46.61	ug/l	0.02
Spiked Amount	50.000		Recovery	=	93.22%	
62) 4-Bromofluorobenzene	11.52	95	171740	45.08	ug/l	0.01
Spiked Amount	50.000		Recovery	=	90.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	224717	53.246	ug/l	96
3) Chloromethane	1.15	50	168261	47.326	ug/l	92
4) Vinyl Chloride	1.20	62	165051	49.017	ug/l	98
5) Bromomethane	1.41	94	128260	56.089	ug/l	91
6) Chloroethane	1.46	64	83931	56.860	ug/l	97
7) Trichlorofluoromethane	1.57	101	332923	62.221	ug/l	91
8) Diethyl Ether	1.73	74	52678	54.344	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.93	101	194270	57.855	ug/l	98
10) Methyl Iodide	2.01	142	328021	55.886	ug/l	95
11) Tert butyl alcohol	2.73	59	51957	298.583	ug/l	100
12) 1,1-Dichloroethene	1.89	96	166125	55.447	ug/l	91
13) Acrolein	2.12	56	43985	268.961	ug/l	98
14) Allyl chloride	2.22	41	183068	56.144	ug/l #	61
15) Acrylonitrile	3.11	53	133057	276.076	ug/l	93
16) Acetone	2.37	43	192163	298.357	ug/l	97
17) Carbon Disulfide	1.93	76	411562	52.194	ug/l	99
18) Methyl Acetate	2.49	43	69701	58.720	ug/l	97
19) Methyl tert-butyl Ether	2.58	73	333148	58.326	ug/l	97
20) Methylene Chloride	2.36	84	154362m	56.857	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	160550	54.223	ug/l	93
22) Diisopropyl ether	2.96	45	474563	54.063	ug/l	98
23) Vinyl Acetate	3.38	43	1061894	272.804	ug/l	99
24) 1,1-Dichloroethane	3.04	63	295586	58.998	ug/l	97
25) 2-Butanone	4.56	43	279004	273.199	ug/l	97
26) 2,2-Dichloropropane	3.81	77	148293	56.997	ug/l	97
27) cis-1,2-Dichloroethene	3.68	96	198417	52.917	ug/l	96
28) Bromochloromethane	3.94	49	98603	46.703	ug/l #	98
29) Tetrahydrofuran	4.31	42	117580	262.027	ug/l	98
30) Chloroform	4.09	83	368746	58.613	ug/l	97
31) Cyclohexane	3.92	56	240907	50.533	ug/l	98
32) 1,1,1-Trichloroethane	4.32	97	233823	47.339	ug/l #	81
36) 1,1-Dichloropropene	4.51	75	264899	56.263	ug/l	99
37) Ethyl Acetate	4.34	43	105233	53.128	ug/l #	5
38) Carbon Tetrachloride	4.23	117	265316	55.432	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.68	83	292925	53.296	ug/l	97
40) Benzene	4.87	78	574915	50.541	ug/l	100
41) Methacrylonitrile	4.98	41	59278	53.870	ug/l	92
42) 1,2-Dichloroethane	5.17	62	221310	61.412	ug/l	98
43) Isopropyl Acetate	7.15	43	103332	50.913	ug/l #	98
44) Trichloroethene	5.72	130	204217	53.062	ug/l	98
45) 1,2-Dichloropropane	6.45	63	138939	54.173	ug/l	100
46) Dibromomethane	6.31	93	107352	57.967	ug/l	99
47) Bromodichloromethane	6.59	83	254820	58.530	ug/l	94
48) Methyl methacrylate	6.92	41	72502	49.961	ug/l	95
49) 1,4-Dioxane	6.91	88	16689	998.733	ug/l	95
51) 4-Methyl-2-Pentanone	8.44	43	398071	255.065	ug/l	98
52) Toluene	7.81	92	328781	50.089	ug/l	98
53) t-1,3-Dichloropropene	8.46	75	168135	52.519	ug/l	97
54) cis-1,3-Dichloropropene	7.50	75	219547	53.532	ug/l	95
55) 1,1,2-Trichloroethane	8.67	97	99659	53.459	ug/l	94
56) Ethyl methacrylate	8.79	69	105634	51.578	ug/l	93
57) 1,3-Dichloropropane	9.04	76	155048	52.898	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.49	63	128568	206.303	ug/l	100
59) 2-Hexanone	9.66	43	258952	273.138	ug/l	99
60) Dibromochloromethane	8.90	129	170785	56.446	ug/l	97
61) 1,2-Dibromoethane	9.16	107	114849	53.230	ug/l	100
64) Tetrachloroethene	8.35	164	175201	57.036	ug/l	97
65) Chlorobenzene	9.97	112	370806	55.253	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.10	131	181959	57.562	ug/l	98
67) Ethyl Benzene	10.07	91	636774	54.578	ug/l	98
68) m/p-Xylenes	10.30	106	450868	103.796	ug/l	95
69) o-Xylene	10.85	106	257701	53.101	ug/l	100
70) Styrene	10.92	104	358792	51.143	ug/l	99
71) Bromoform	10.91	173	99127	55.710	ug/l #	98
73) Isopropylbenzene	11.24	105	777782	55.913	ug/l	97
74) N-amyl acetate	11.47	43	162084	50.570	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.80	83	120108	54.347	ug/l	97
76) 1,2,3-Trichloropropane	11.90	75	86400	55.102	ug/l #	100
77) Bromobenzene	11.61	156	199369	57.331	ug/l	98
78) n-propylbenzene	11.70	91	778402	53.181	ug/l	100
79) 2-Chlorotoluene	11.83	91	489352	55.505	ug/l	99
80) 1,3,5-Trimethylbenzene	11.92	105	654644	55.746	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	34784m	49.628	ug/l	
82) 4-Chlorotoluene	12.00	91	479979	55.019	ug/l	98
83) tert-Butylbenzene	12.22	119	696969	57.832	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	611350	53.752	ug/l	99
85) sec-Butylbenzene	12.40	105	846961	56.424	ug/l	100
86) p-Isopropyltoluene	12.55	119	760587	56.517	ug/l	99
87) 1,3-Dichlorobenzene	12.57	146	340779	55.391	ug/l	99
88) 1,4-Dichlorobenzene	12.65	146	324975	55.711	ug/l	100
89) n-Butylbenzene	12.92	91	660328	54.001	ug/l	99
90) Hexachloroethane	13.00	117	195880	58.065	ug/l	94
91) 1,2-Dichlorobenzene	13.02	146	326580	55.300	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.71	75	26109	58.561	ug/l	94

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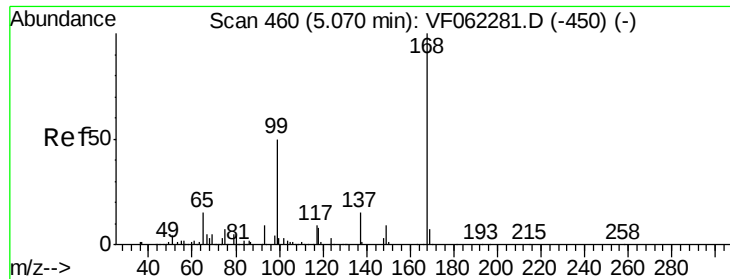
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	294677	56.798	ug/l	100
94) Hexachlorobutadiene	14.25	225	225799	60.517	ug/l	100
95) Naphthalene	14.52	128	490968	61.083	ug/l	100
96) 1,2,3-Trichlorobenzene	14.66	180	297243	60.578	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 463

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 355136

Ion Ratio Lower Upper

168 100

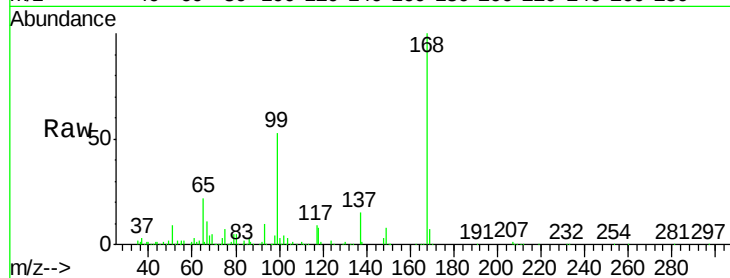
99 53.2 40.0 60.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

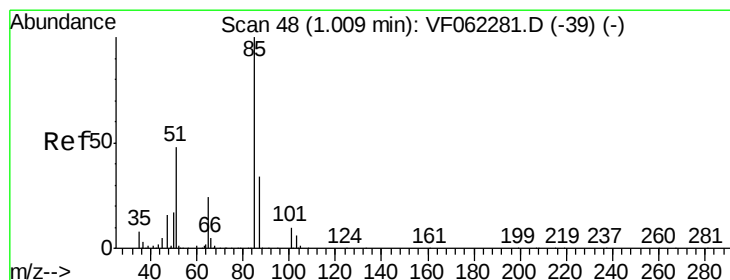
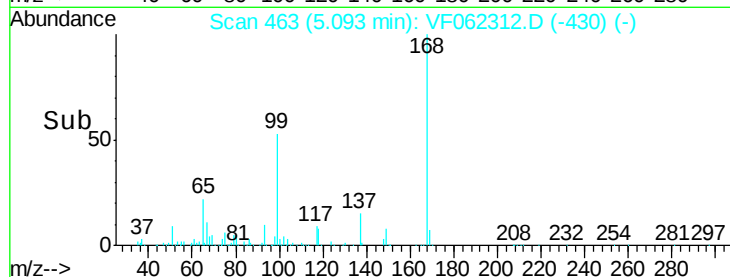
5.09

100000

50000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 53.246 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.00 min

Lab File: VF062312.D

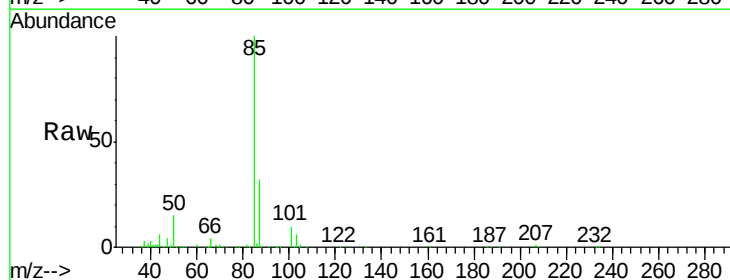
Acq: 26 Apr 2019 19:17

Tgt Ion: 85 Resp: 224717

Ion Ratio Lower Upper

85 100

87 31.8 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

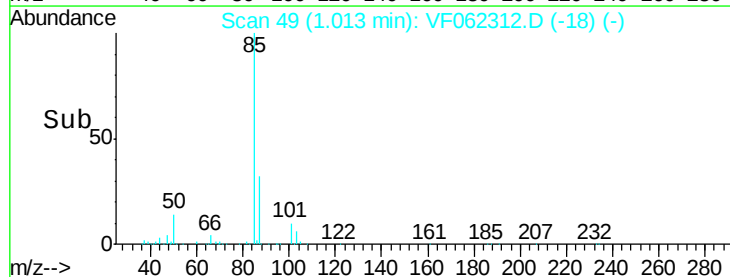
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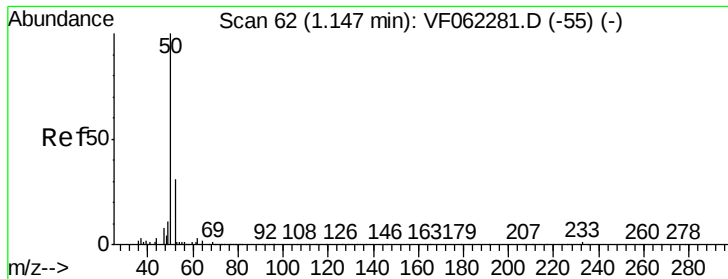
40000

20000

0

Time--> 0.80 1.00 1.20





#3

Chloromethane

Concen: 47.326 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 168261

Ion Ratio Lower Upper

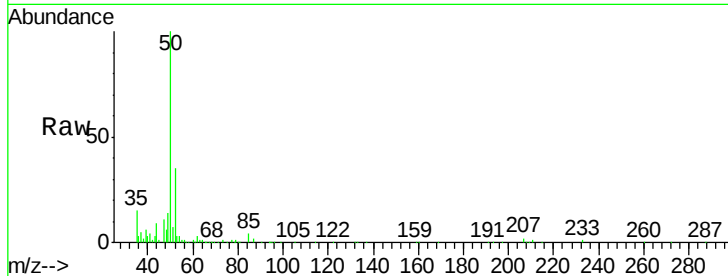
50 100

52 34.4 24.2 36.4

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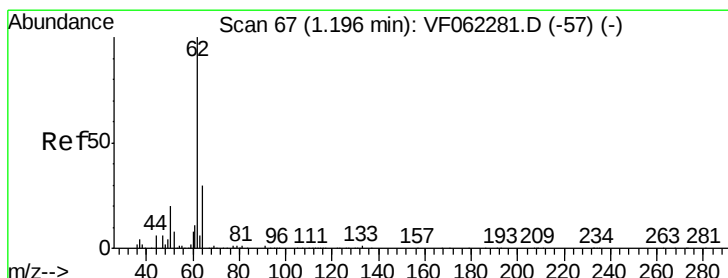
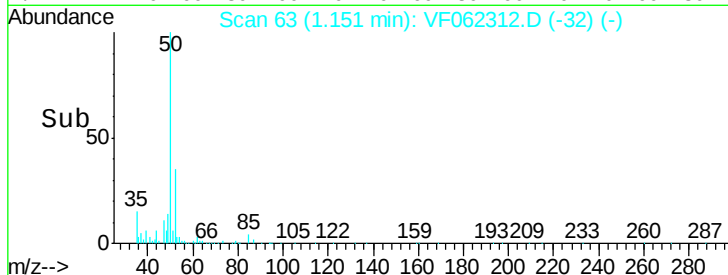
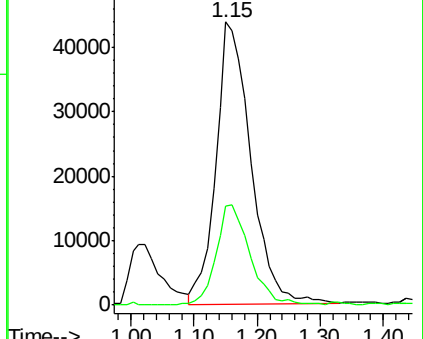
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Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0



#4

Vinyl Chloride

Concen: 49.017 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.00 min

Lab File: VF062312.D

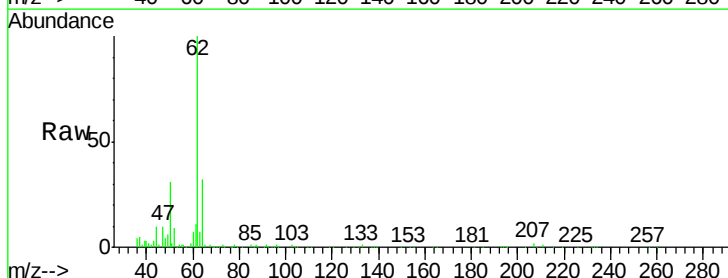
Acq: 26 Apr 2019 19:17

Tgt Ion: 62 Resp: 165051

Ion Ratio Lower Upper

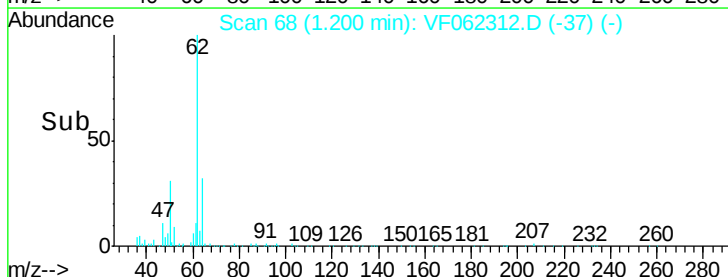
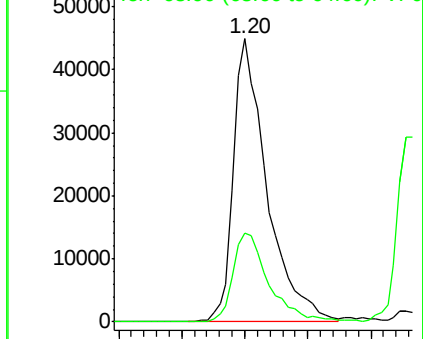
62 100

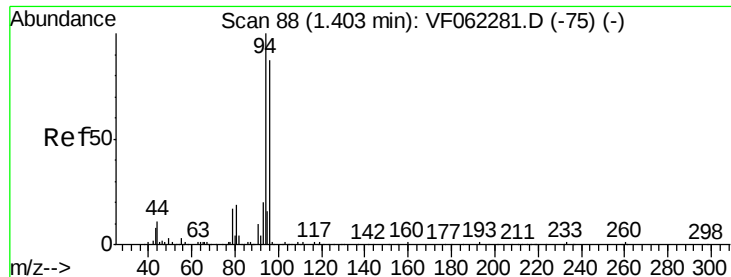
64 31.5 24.3 36.5



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 63.90 (63.60 to 64.60): VF0





#5

Bromomethane

Concen: 56.089 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tot Ion: 94 Resp: 128260

Ion Ratio Lower Upper

94 100

96 95.4 69.5 104.3

Instrument :

MSVOA_F

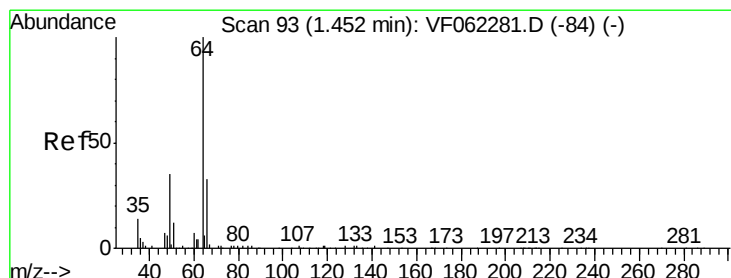
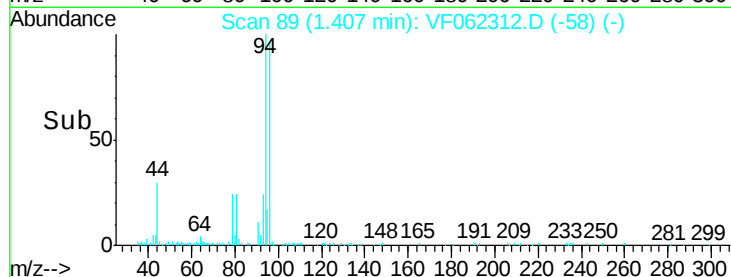
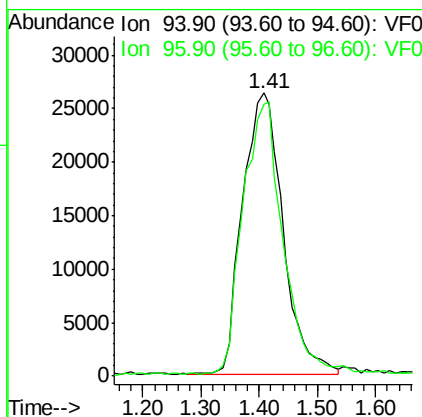
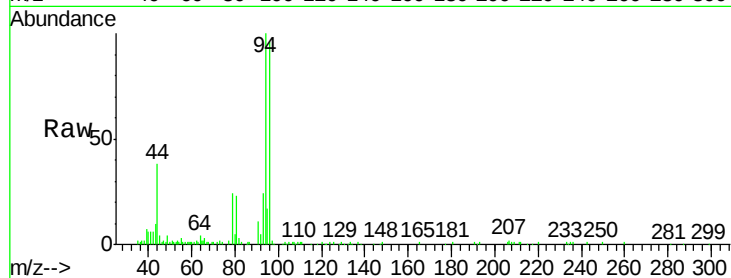
ClientSampleId :

VSTDCCC050EC

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#6

Chloroethane

Concen: 56.860 ug/l

RT: 1.46 min Scan# 94

Delta R.T. 0.00 min

Lab File: VF062312.D

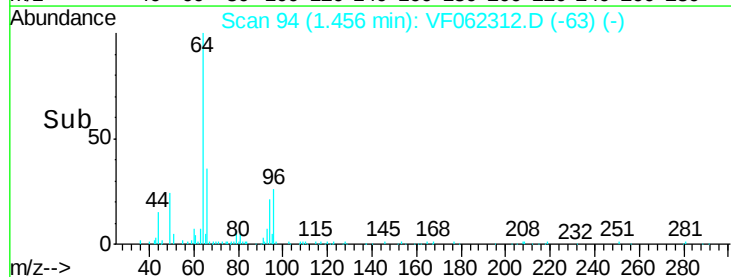
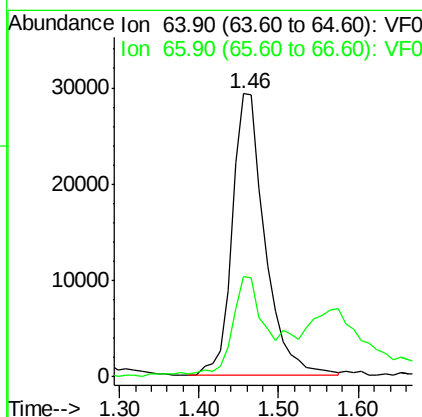
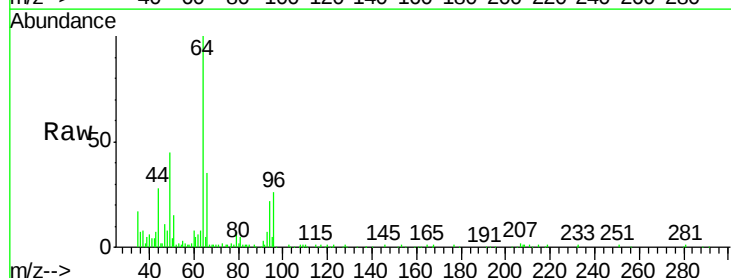
Acq: 26 Apr 2019 19:17

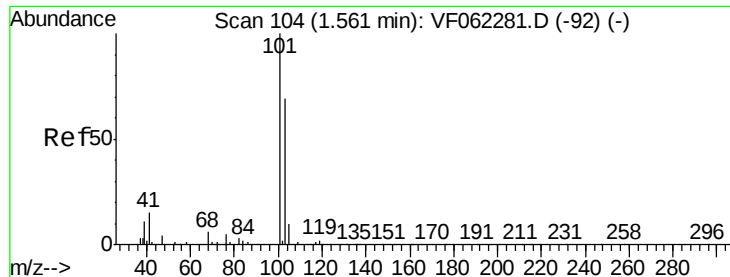
Tgt Ion: 64 Resp: 83931

Ion Ratio Lower Upper

64 100

66 34.4 26.0 39.0





#7

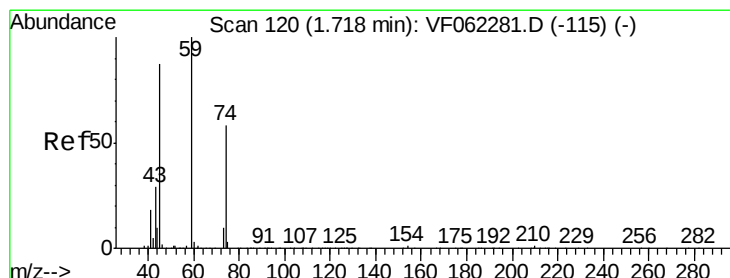
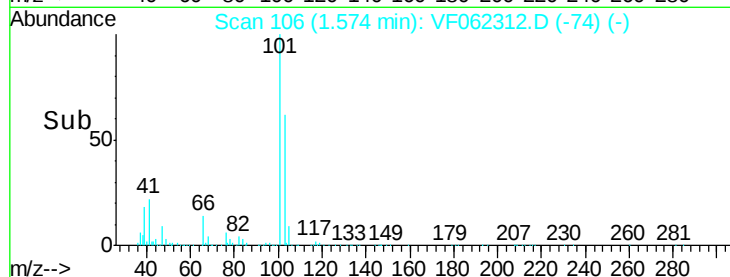
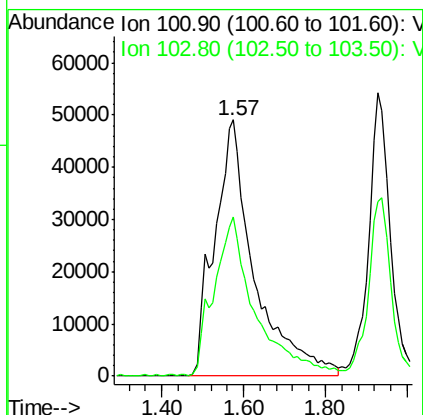
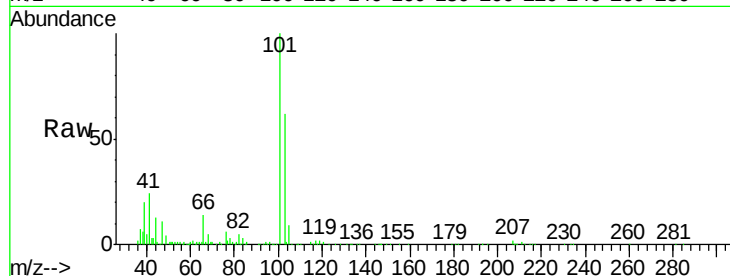
Trichlorofluoromethane
Concen: 62.221 ug/l
RT: 1.57 min Scan# 106
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

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ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.8	55.0	82.6

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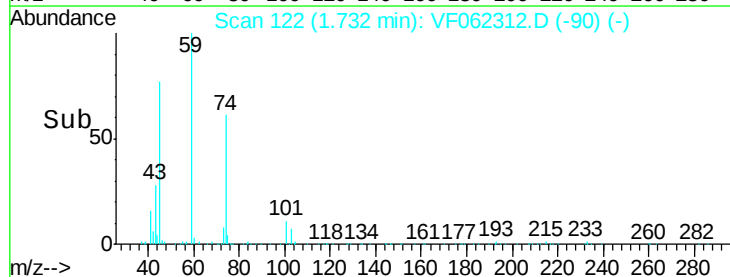
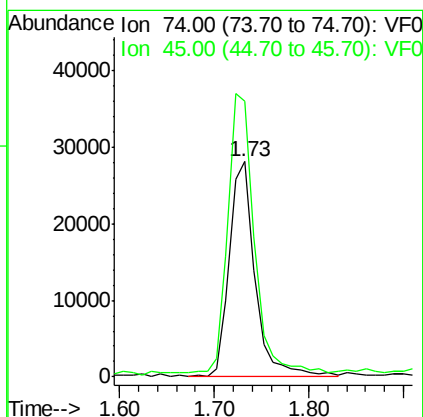
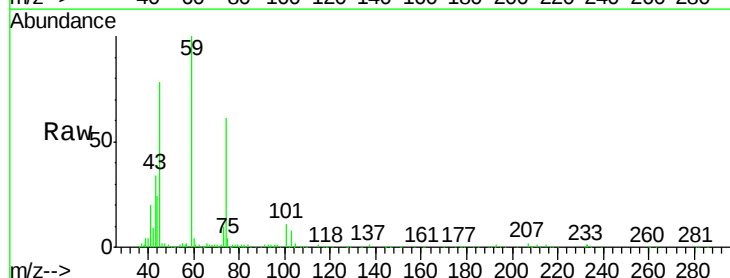
MMDadoda
4/29/2019 3:59:56 PM

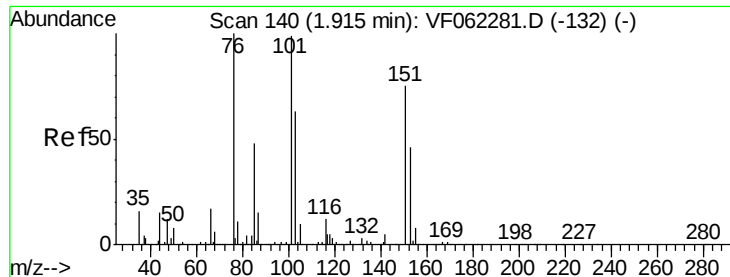


#8

Diethyl Ether
Concen: 54.344 ug/l
RT: 1.73 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	133.2	74.0	222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 57.855 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

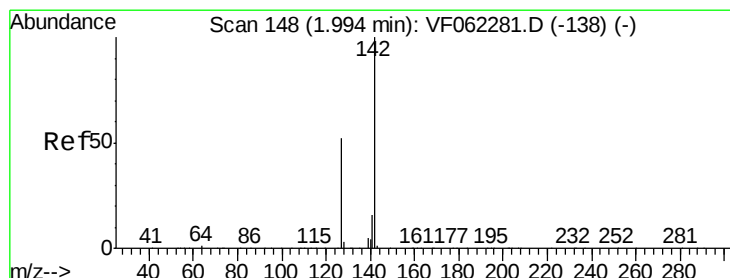
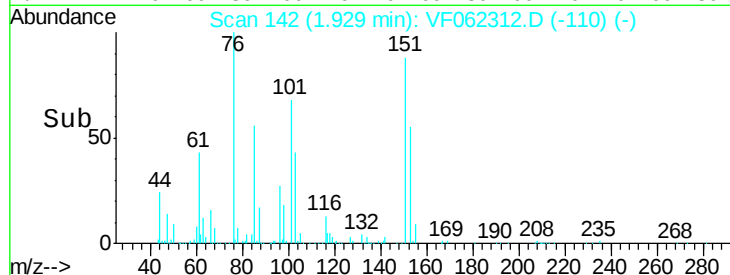
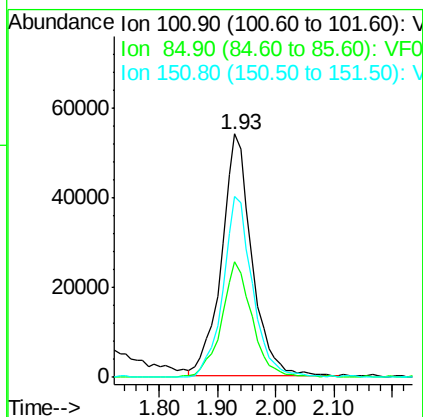
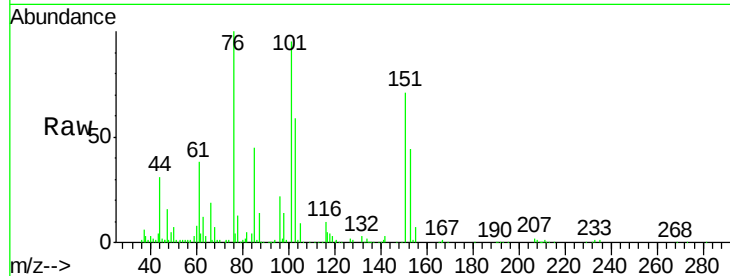
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	194270
Ion Ratio	Lower	Upper	
101	100		
85	48.4	36.5	54.7
151	73.2	59.2	88.8

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#10

Methyl Iodide

Concen: 55.886 ug/l

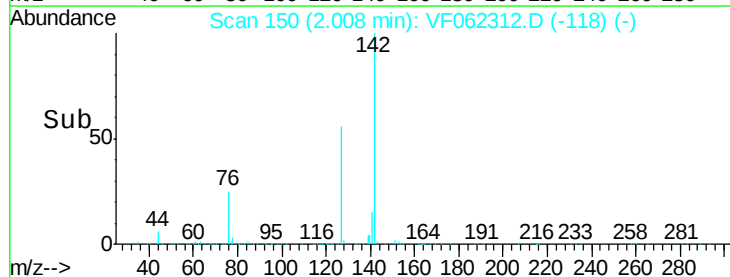
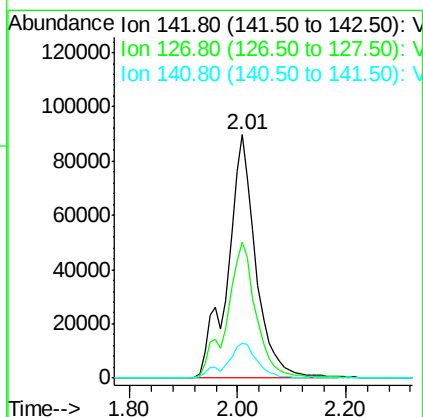
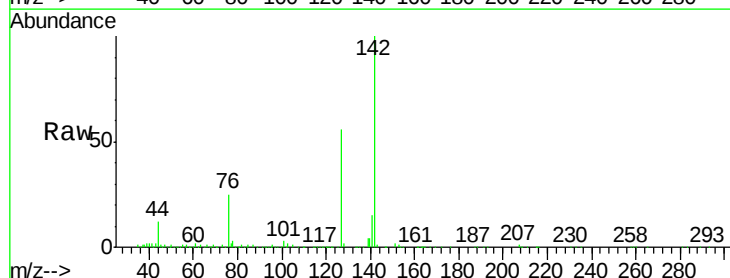
RT: 2.01 min Scan# 150

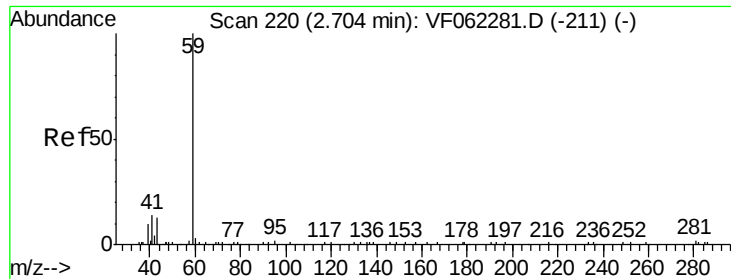
Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	142	Resp:	328021
Ion Ratio	Lower	Upper	
142	100		
127	58.0	43.0	64.4
141	15.6	12.3	18.5





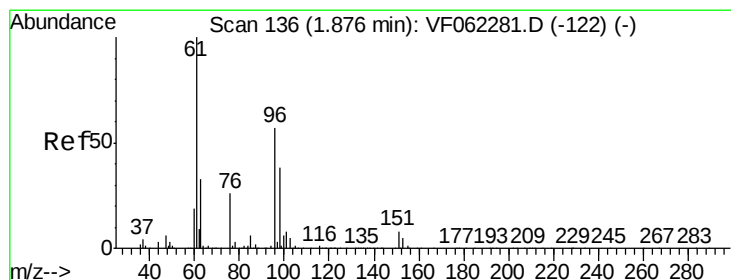
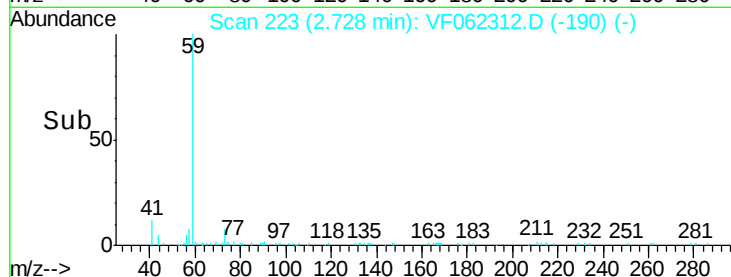
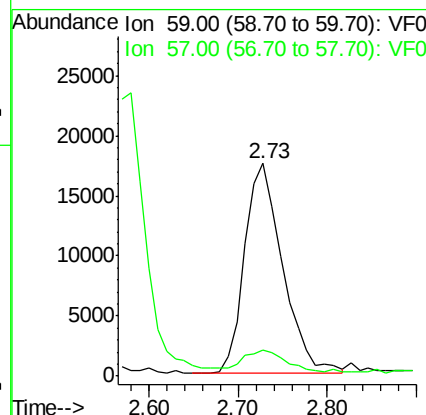
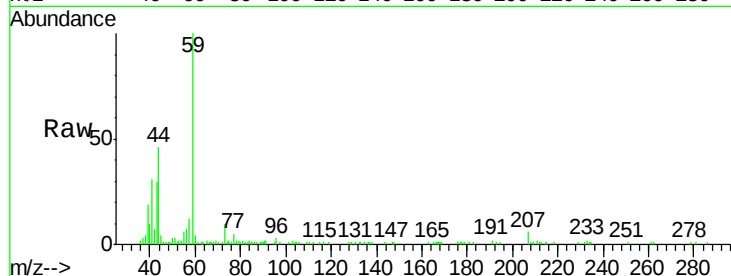
#11
Tert butyl alcohol
Concen: 298.583 ug/l
RT: 2.73 min Scan# 223
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

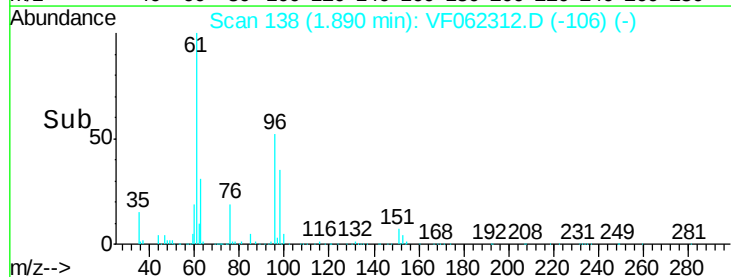
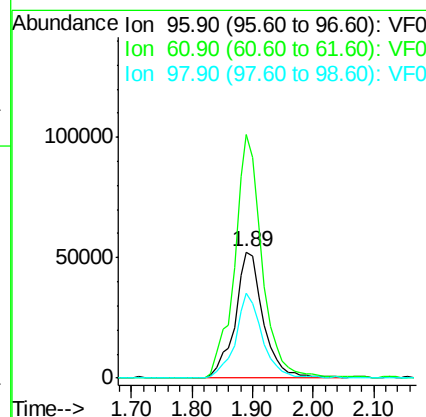
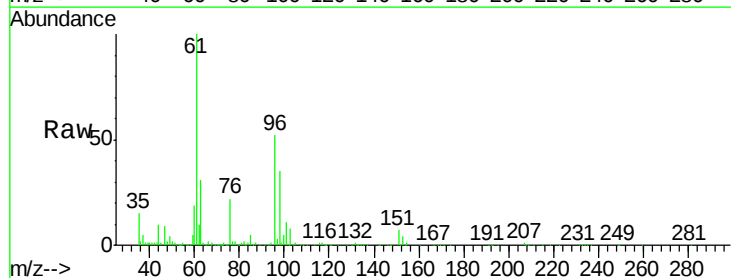
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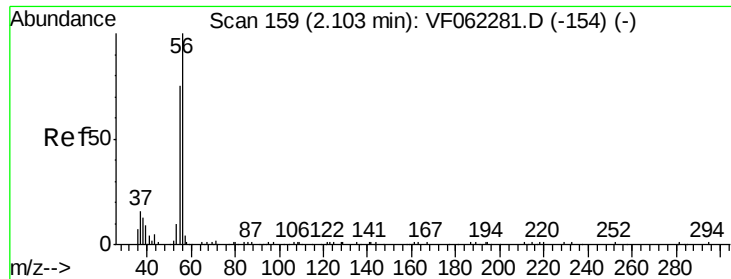
MMDadoda
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#12
1,1-Dichloroethene
Concen: 55.447 ug/l
RT: 1.89 min Scan# 138
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	193.6	141.1	211.7
98	67.0	53.4	80.0





#13

Acrolein

Concen: 268.961 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 43985

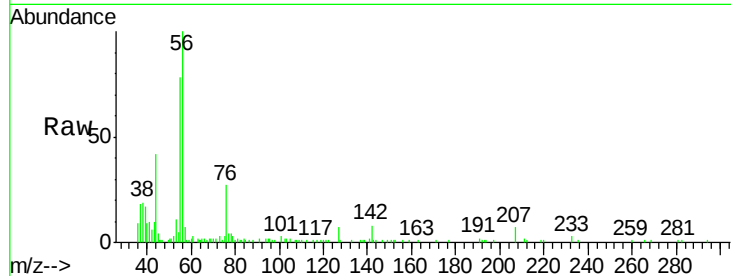
Ion Ratio Lower Upper

56 100

55 76.6 62.3 93.5

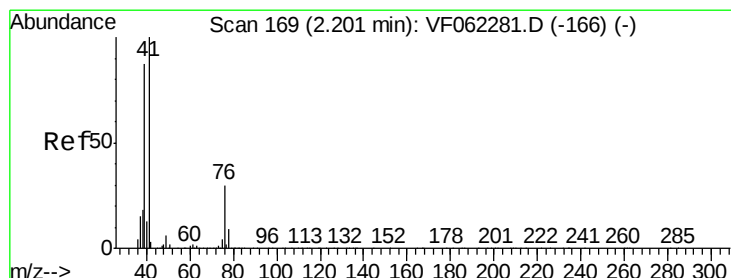
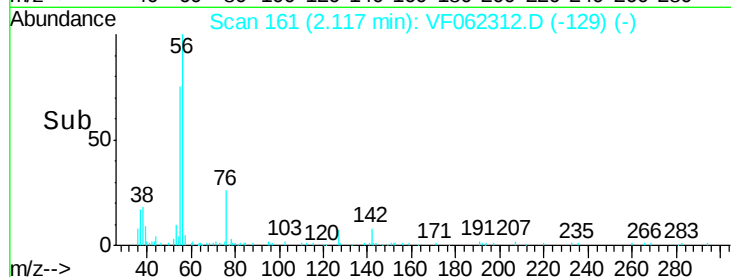
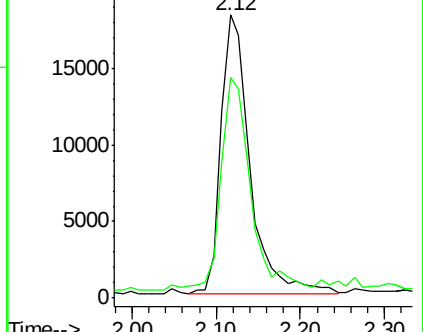
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 56.144 ug/l

RT: 2.22 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

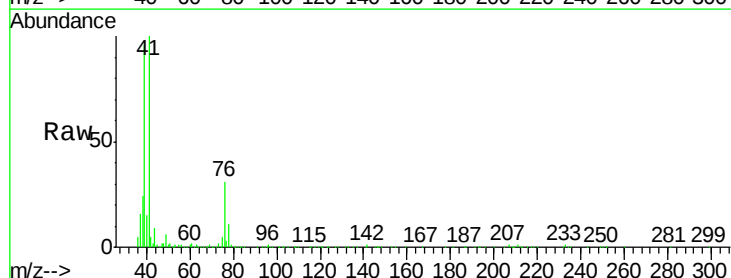
Tgt Ion: 41 Resp: 183068

Ion Ratio Lower Upper

41 100

39 97.7 50.3 75.5#

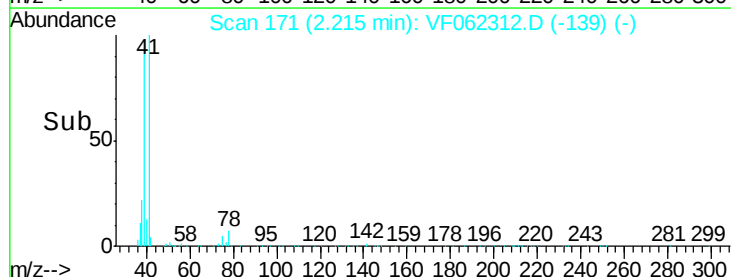
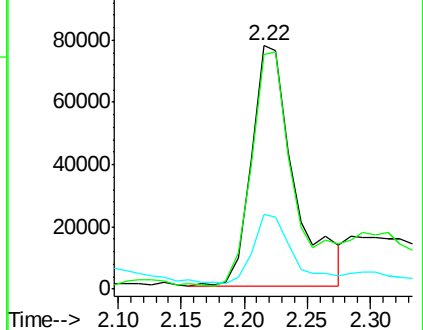
76 26.1 14.8 22.2#

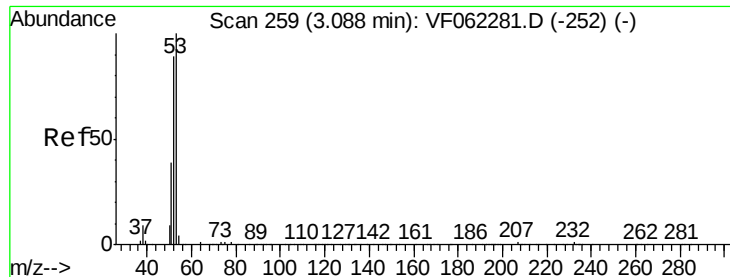


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0





#15

Acrylonitrile

Concen: 276.076 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

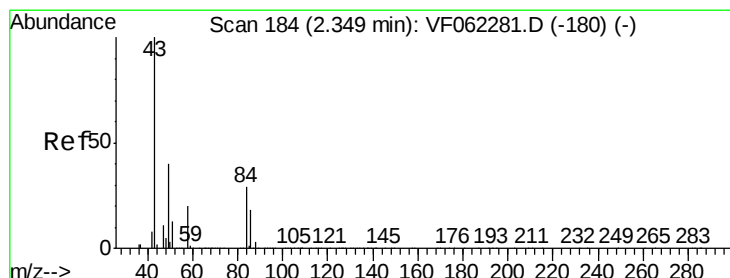
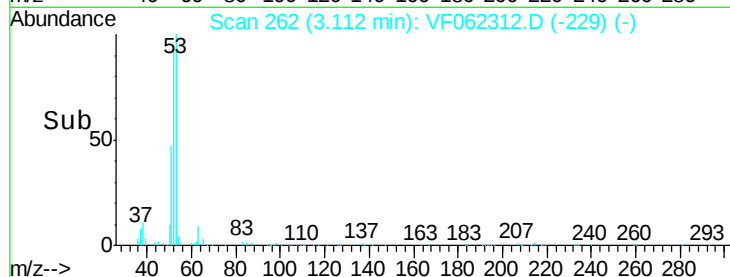
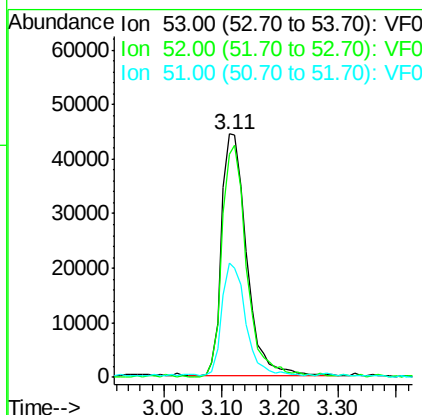
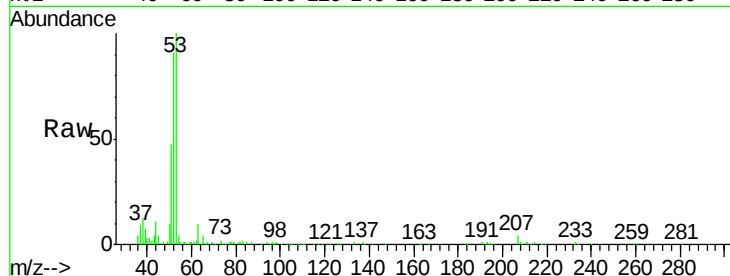
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	133057
Ion	Ratio	Lower	Upper
53	100		
52	95.0	70.6	105.8
51	44.6	32.6	48.8

Manual Integrations
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#16

Acetone

Concen: 298.357 ug/l

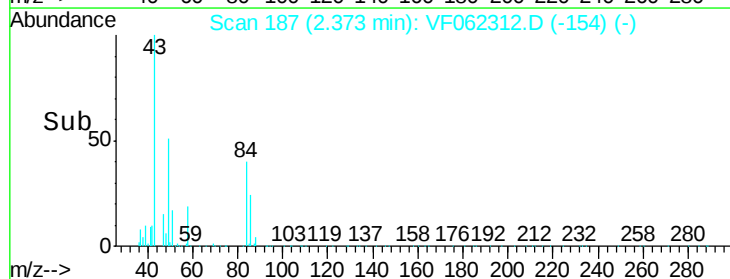
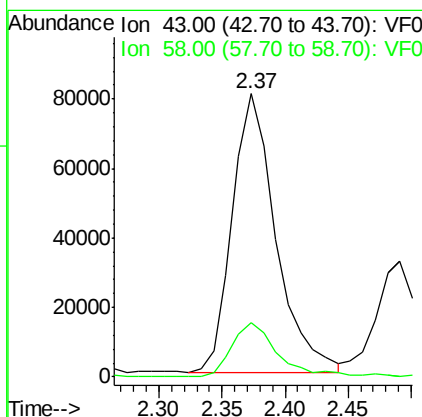
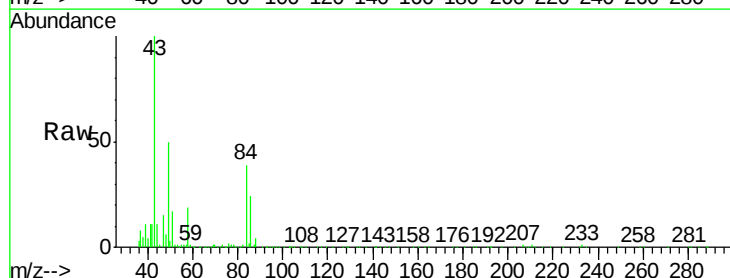
RT: 2.37 min Scan# 187

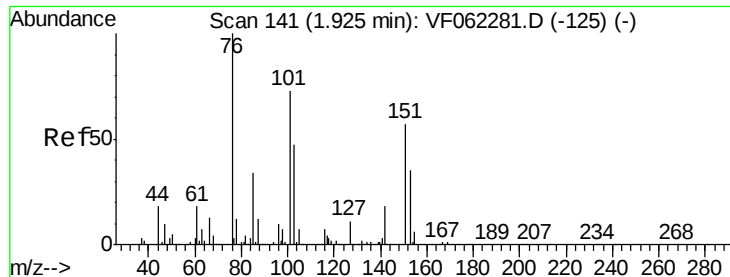
Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	43	Resp:	192163
Ion	Ratio	Lower	Upper
43	100		
58	19.1	16.4	24.6





#17

Carbon Disulfide

Concen: 52.194 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.00 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 411562

Ion Ratio Lower Upper

76 100

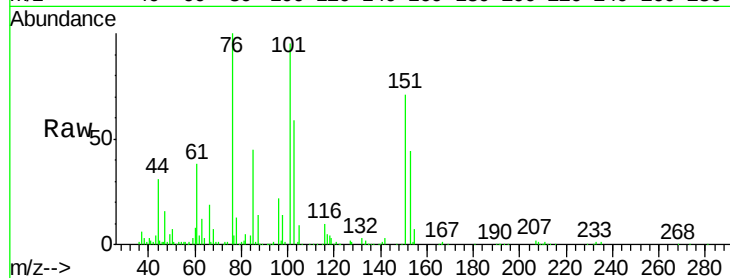
78 12.0 9.8 14.8

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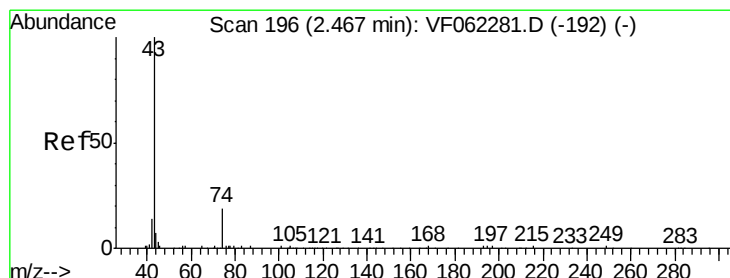
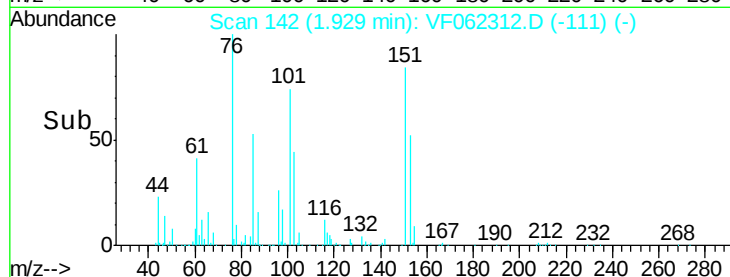
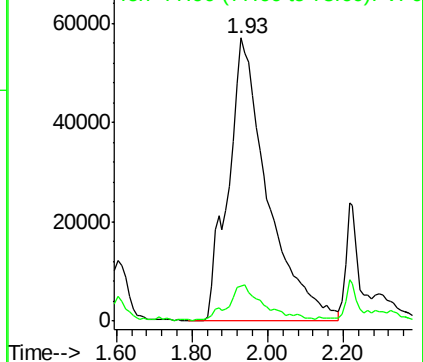
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Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#18

Methyl Acetate

Concen: 58.720 ug/l

RT: 2.49 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF062312.D

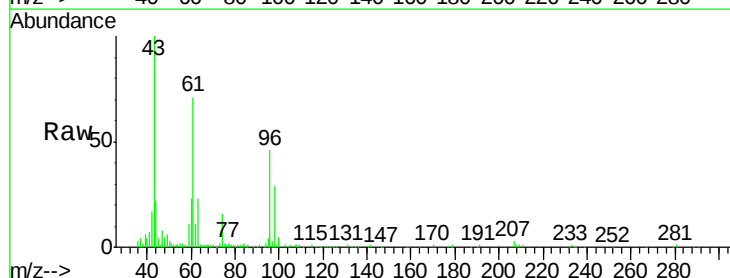
Acq: 26 Apr 2019 19:17

Tgt Ion: 43 Resp: 69701

Ion Ratio Lower Upper

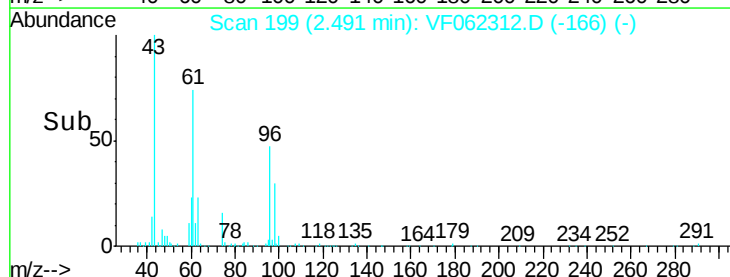
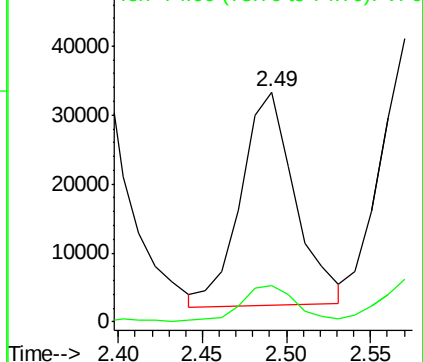
43 100

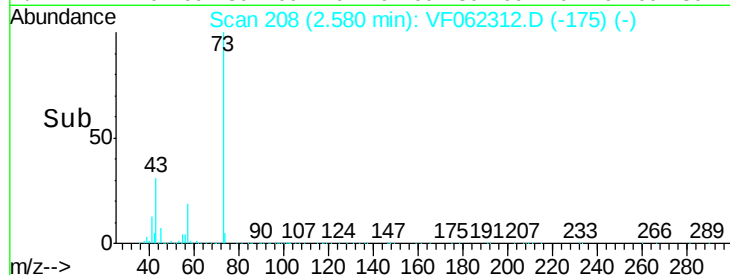
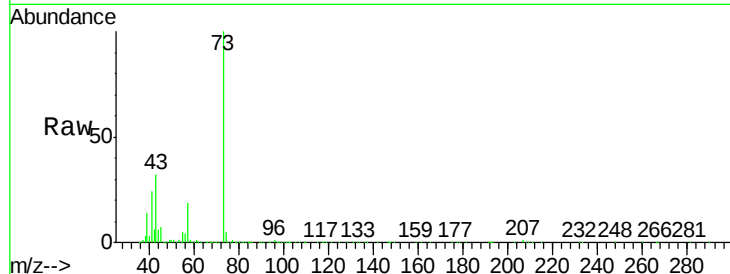
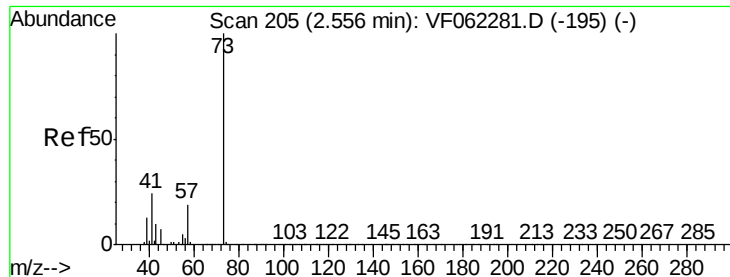
74 16.7 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





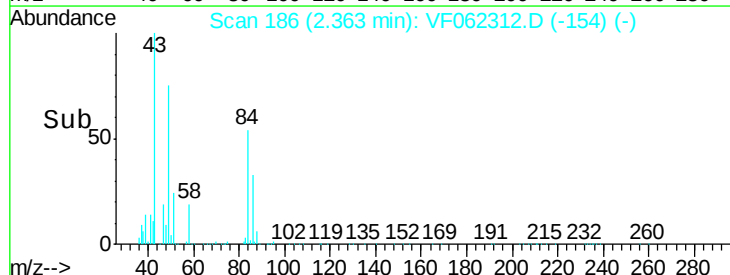
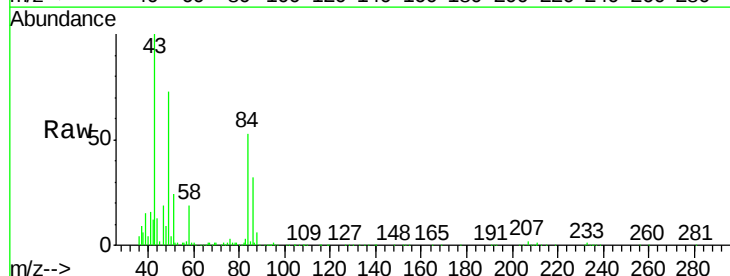
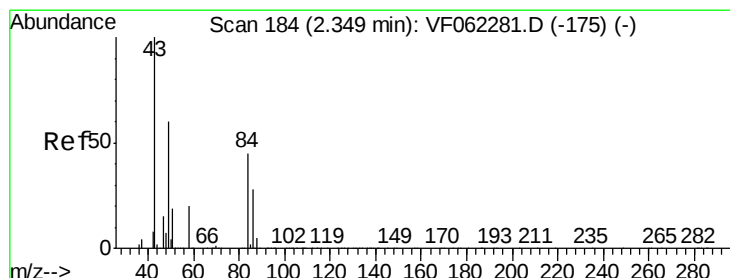
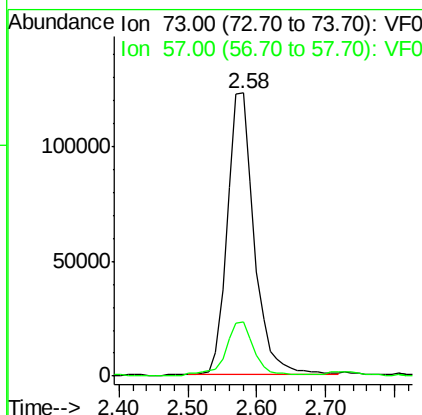
#19
Methyl tert-butyl Ether
Concen: 58.326 ug/l
RT: 2.58 min Scan# 208
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.1	15.5	23.3

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

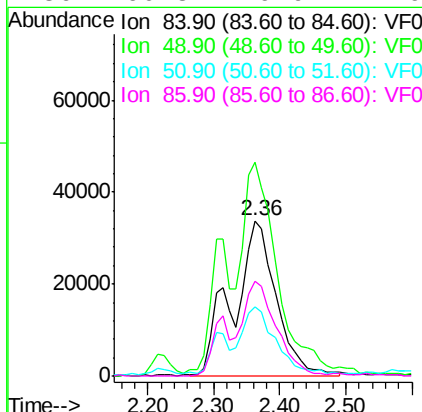
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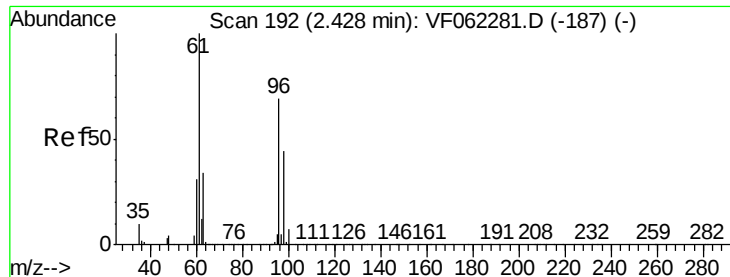
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#20
Methylene Chloride
Concen: 56.857 ug/l m
RT: 2.36 min Scan# 186
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.5	112.1	168.1
51	44.9	35.9	53.9
86	60.8	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 54.223 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

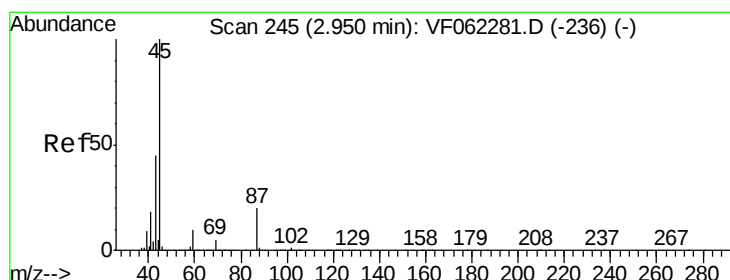
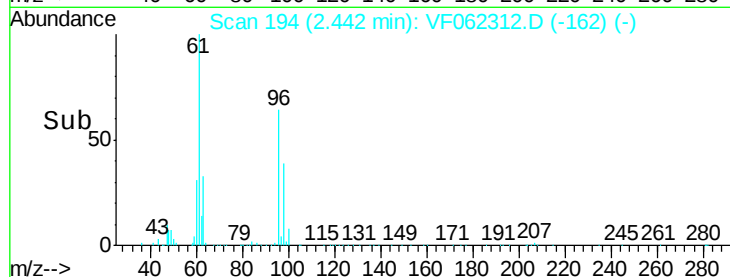
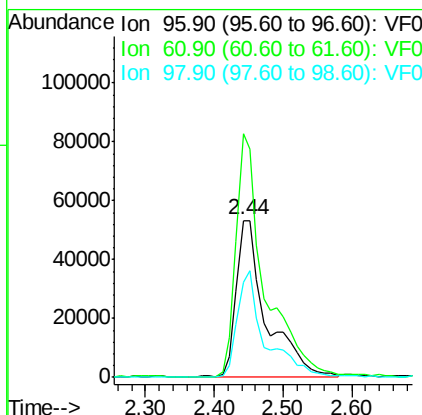
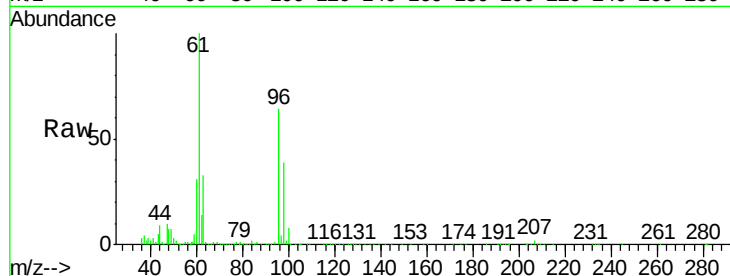
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	160550
Ion	Ratio	Lower	Upper
96	100		
61	155.1	116.2	174.2
98	61.2	51.4	77.0

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#22

Diisopropyl ether

Concen: 54.063 ug/l

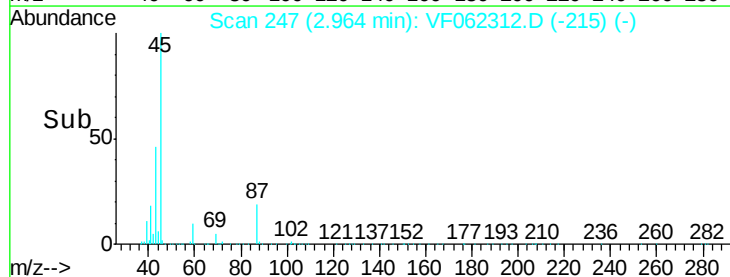
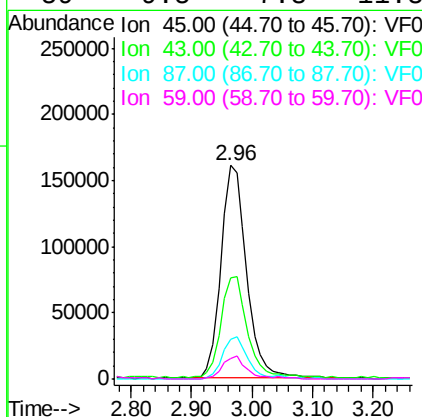
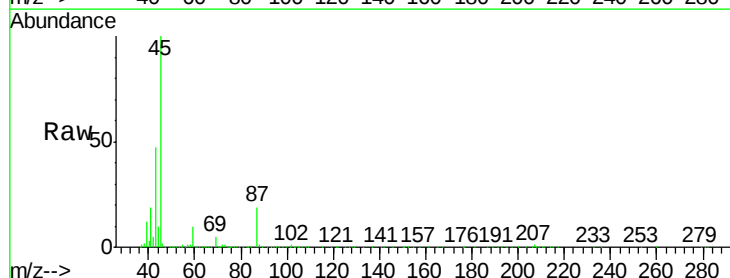
RT: 2.96 min Scan# 247

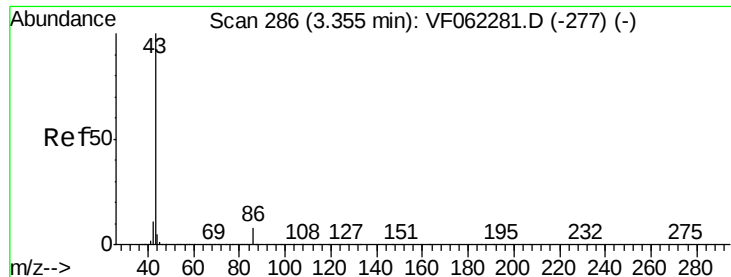
Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	45	Resp:	474563
Ion	Ratio	Lower	Upper
45	100		
43	46.6	36.2	54.2
87	18.7	15.8	23.6
59	9.5	7.8	11.8





#23

Vinyl Acetate

Concen: 272.804 ug/l

RT: 3.38 min Scan# 289

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tot Ion: 43 Resp: 1061894

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

Instrument :

MSVOA_F

ClientSampleId :

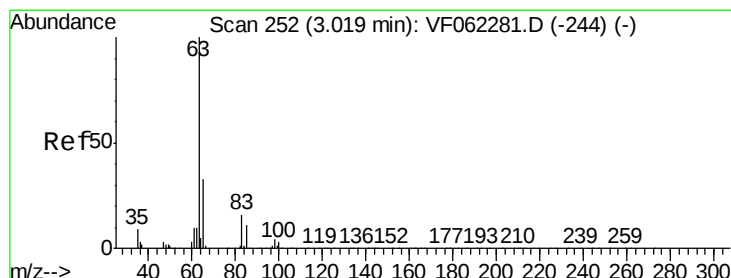
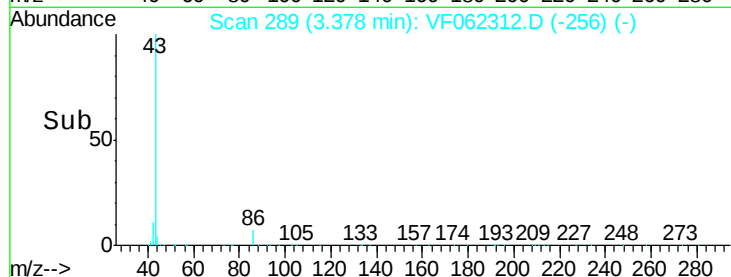
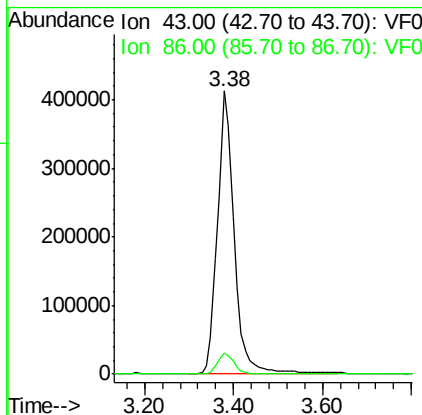
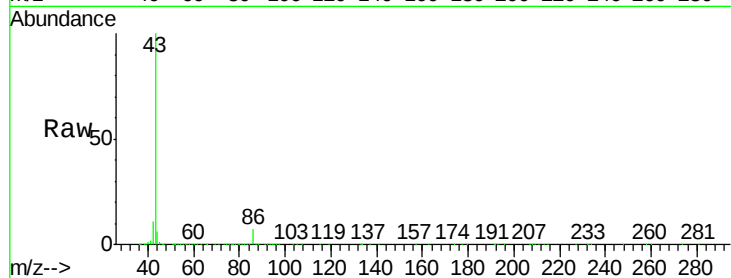
VSTDCCC050EC

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#24

1,1-Dichloroethane

Concen: 58.998 ug/l

RT: 3.04 min Scan# 255

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

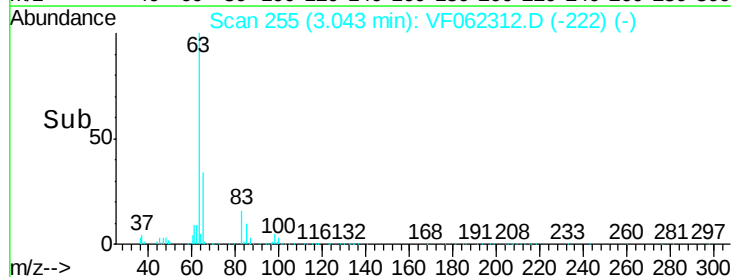
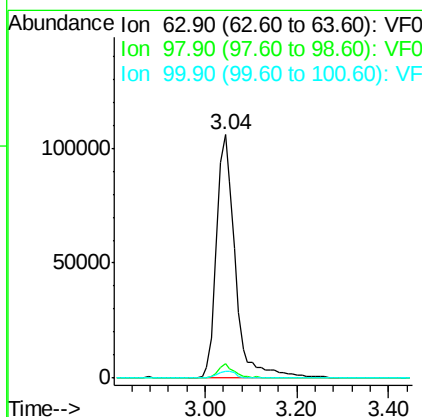
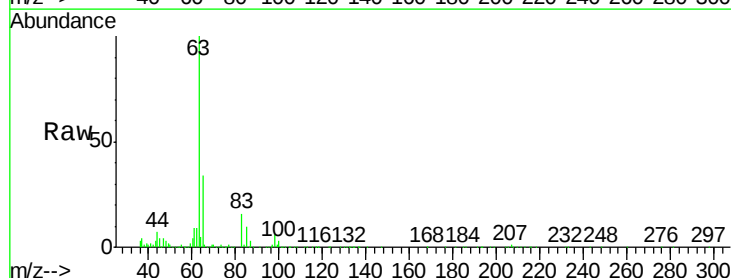
Tgt Ion: 63 Resp: 295586

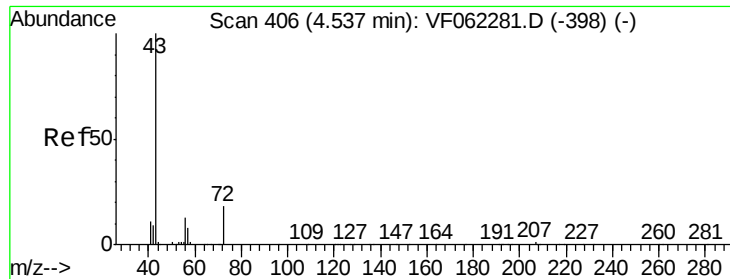
Ion Ratio Lower Upper

63 100

98 5.7 2.1 6.2

100 3.0 1.5 4.5





#25

2-Butanone

Concen: 273.199 ug/l

RT: 4.56 min Scan# 409

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 279004

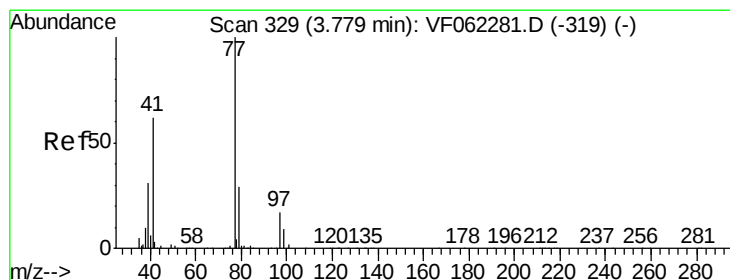
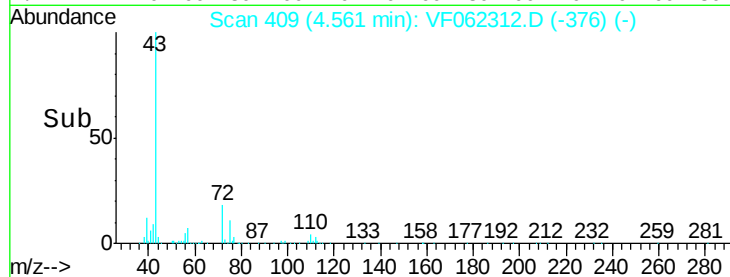
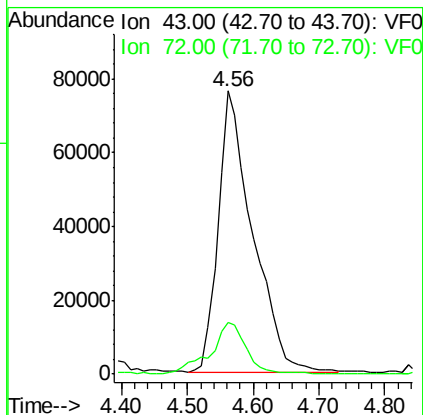
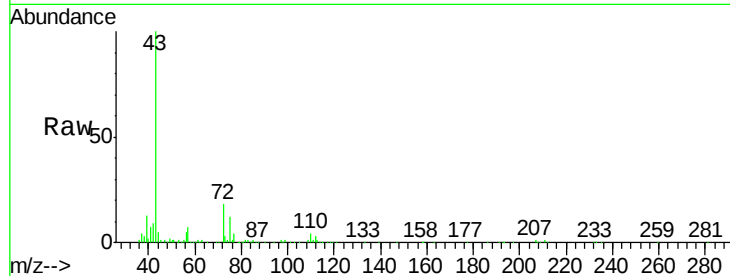
Ion Ratio Lower Upper

43 100

72 18.2 15.8 23.6

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 56.997 ug/l

RT: 3.81 min Scan# 333

Delta R.T. 0.03 min

Lab File: VF062312.D

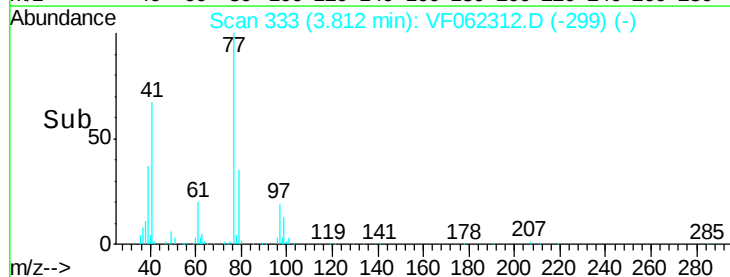
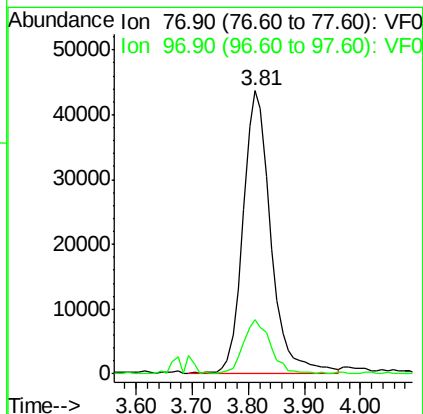
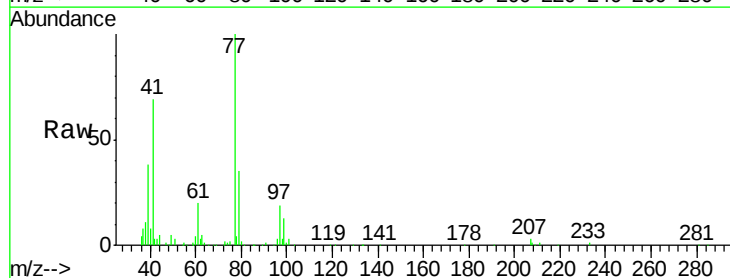
Acq: 26 Apr 2019 19:17

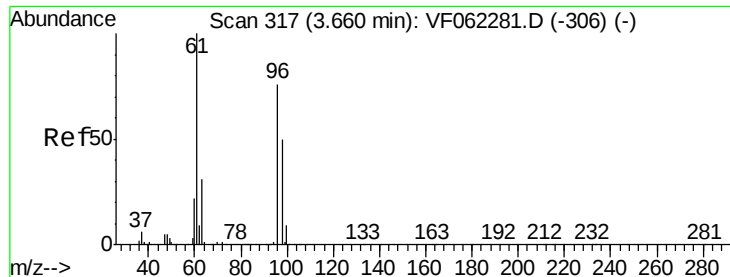
Tgt Ion: 77 Resp: 148293

Ion Ratio Lower Upper

77 100

97 19.2 10.3 30.8





#27

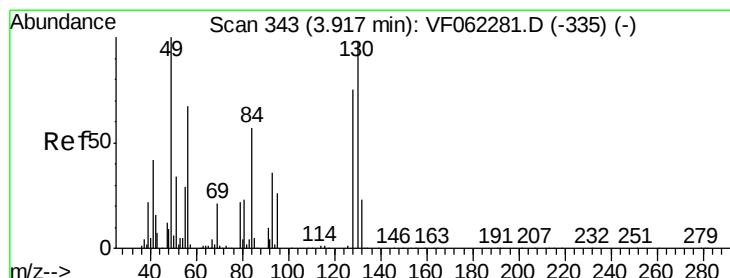
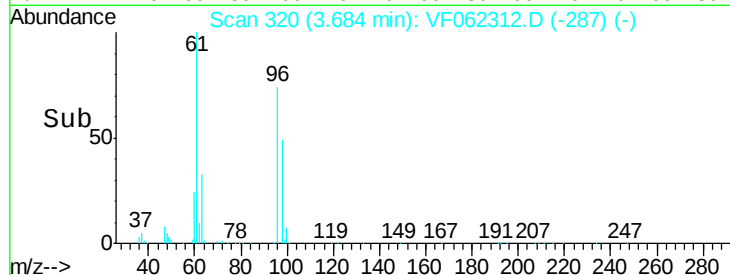
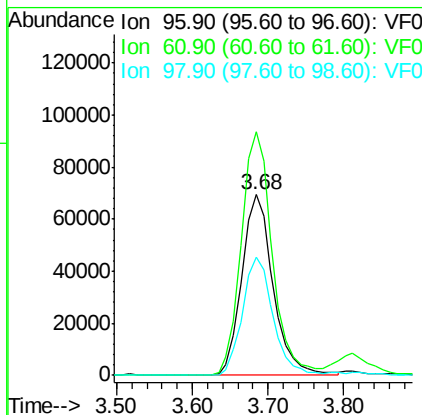
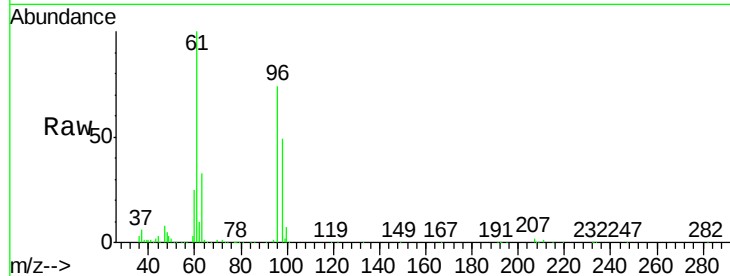
cis-1,2-Dichloroethene
Concen: 52.917 ug/l
RT: 3.68 min Scan# 320
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	198417		
61	133.2	0.0	257.6	
98	64.1	0.0	137.4	

Manual Integrations
APPROVED

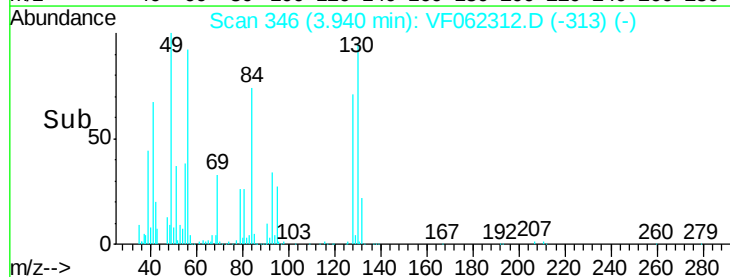
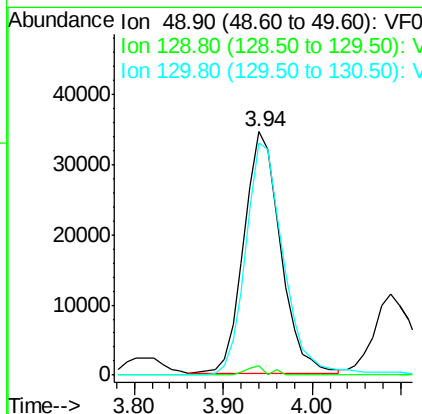
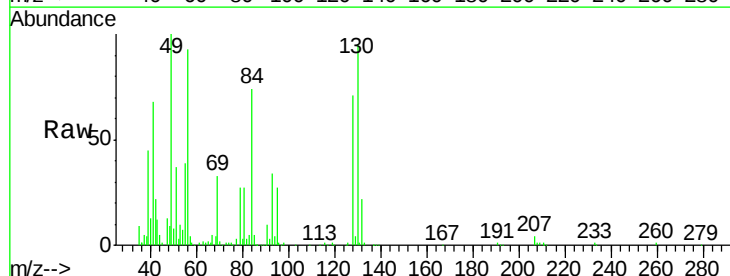
MMDadoda
4/29/2019 3:59:56 PM

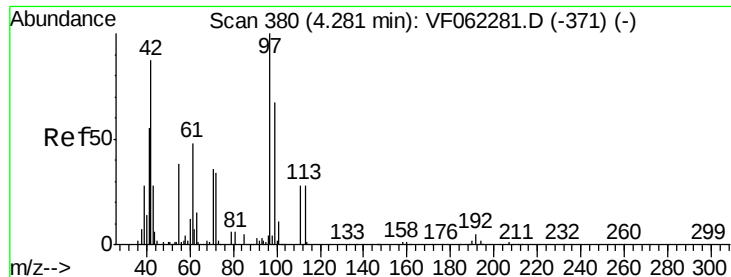


#28

Bromochloromethane
Concen: 46.703 ug/l
RT: 3.94 min Scan# 346
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	98603		
129	2.1	0.0	0.0#	
130	98.2	77.0	115.4	





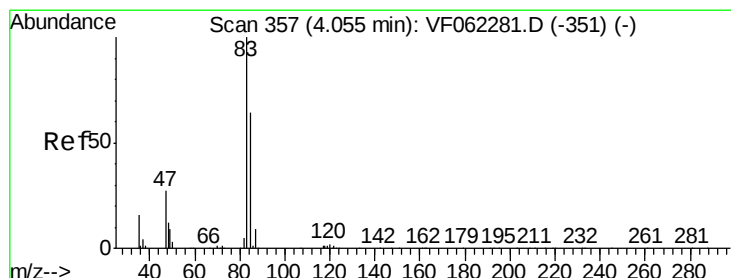
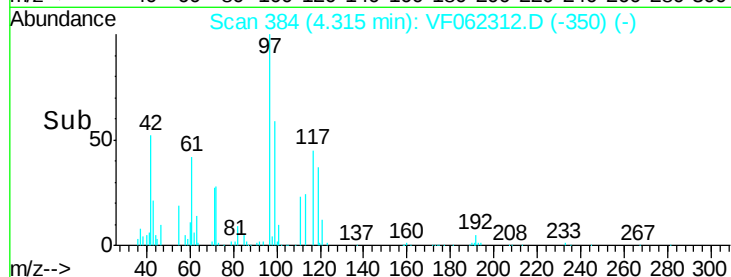
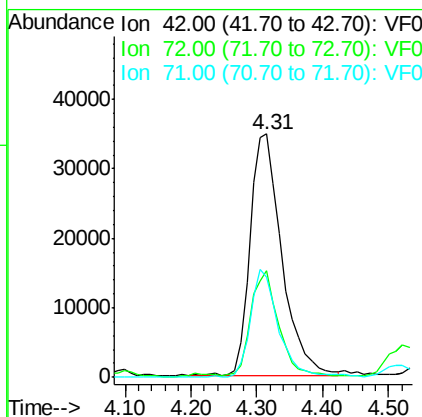
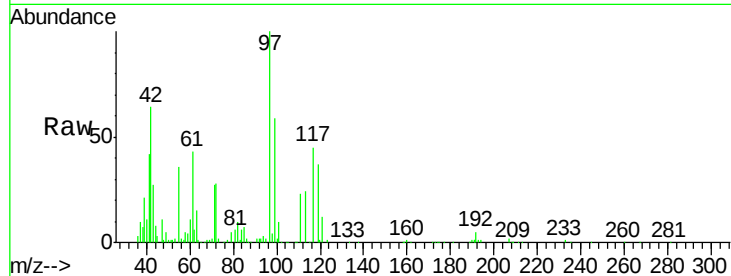
#29
Tetrahydrofuran
Concen: 262.027 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	29.3	43.9
71	39.1	31.2	46.8

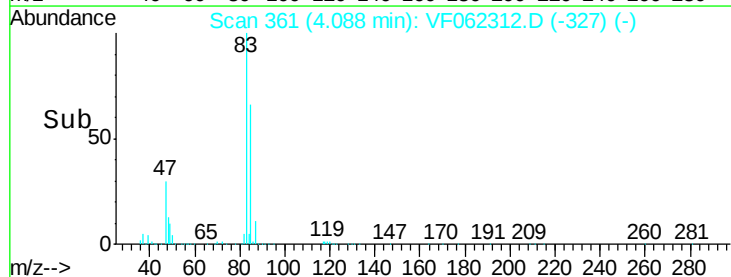
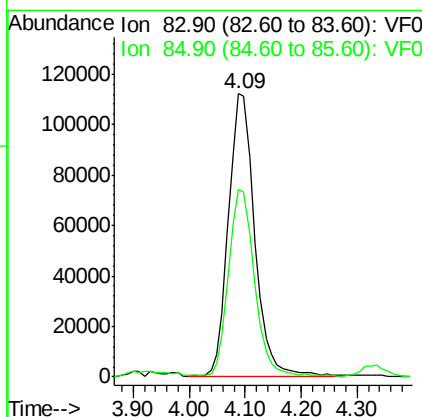
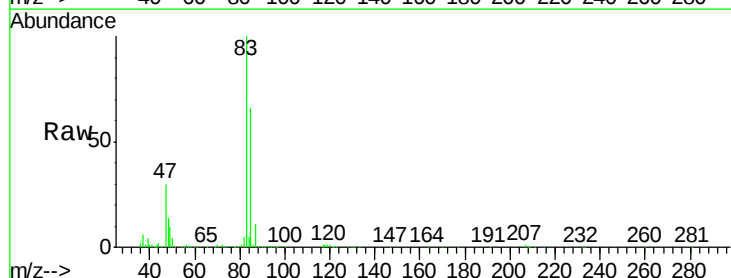
Manual Integrations
APPROVED

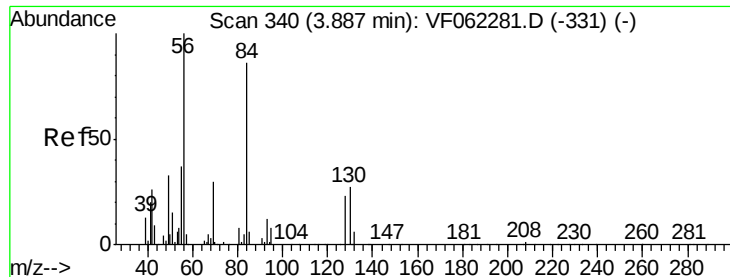
MMDadoda
4/29/2019 3:59:56 PM



#30
Chloroform
Concen: 58.613 ug/l
RT: 4.09 min Scan# 361
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.1	76.7





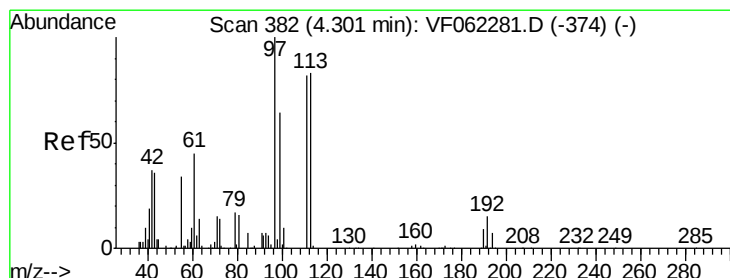
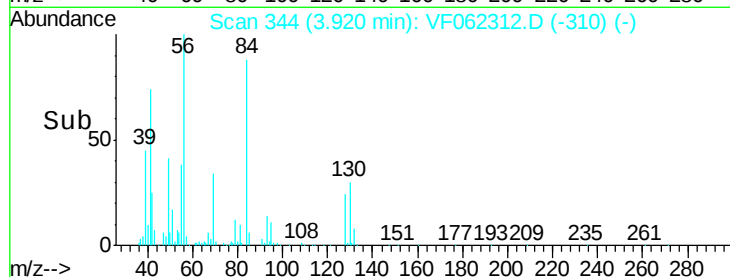
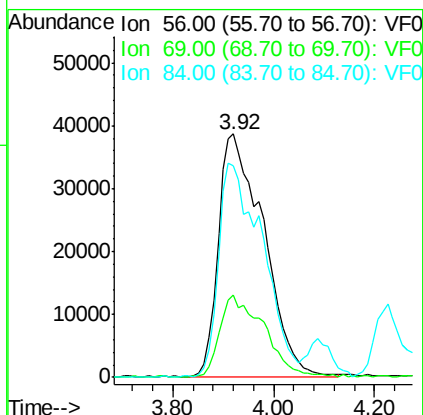
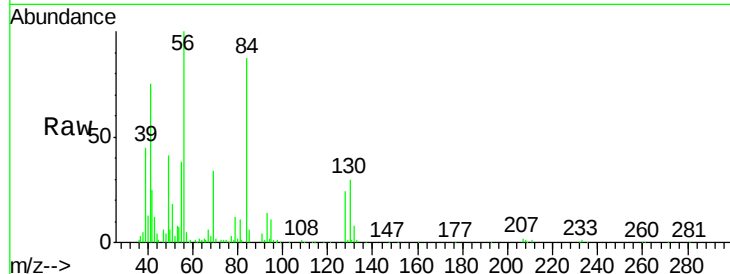
#31
Cyclohexane
Concen: 50.533 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	24.3	36.5
84	86.4	68.5	102.7

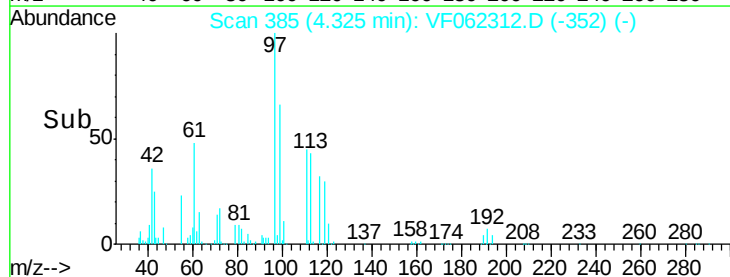
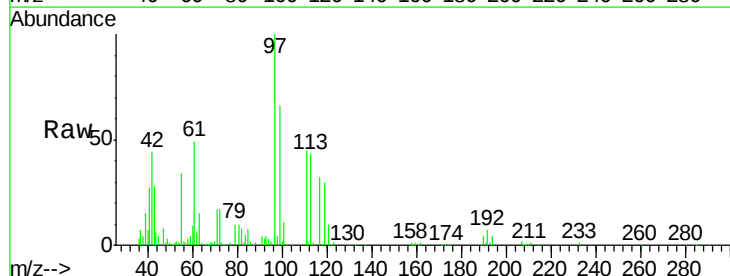
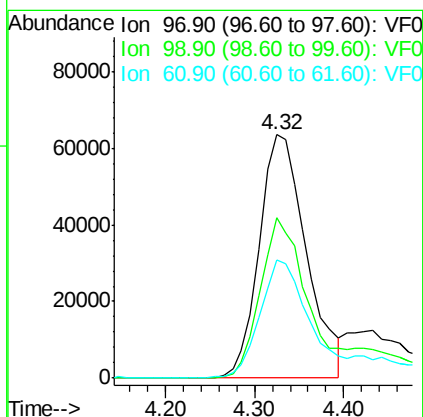
Manual Integrations
APPROVED

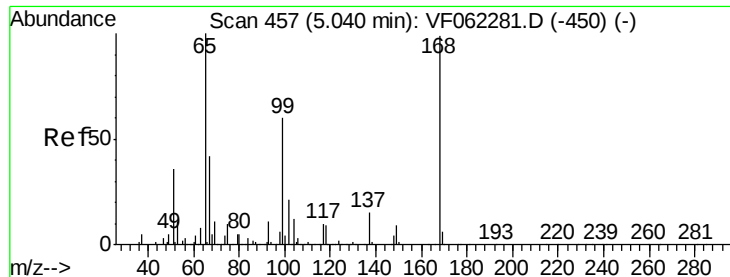
MMDadoda
4/29/2019 3:59:56 PM



#32
1,1,1-Trichloroethane
Concen: 47.339 ug/l
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	41.6	62.4#
61	50.8	31.6	47.4#





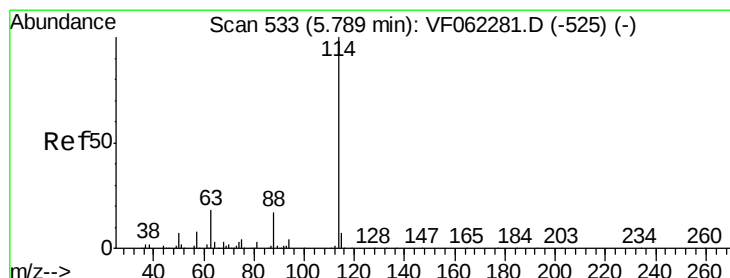
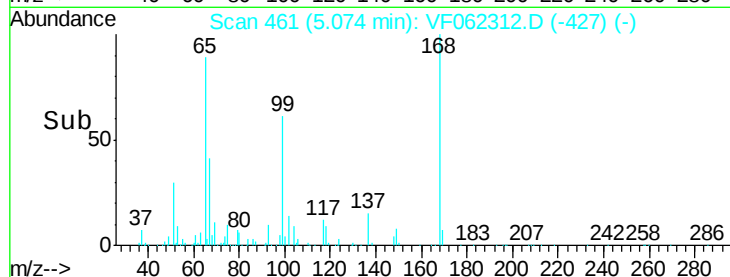
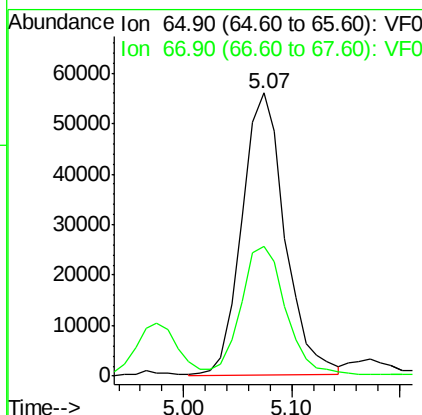
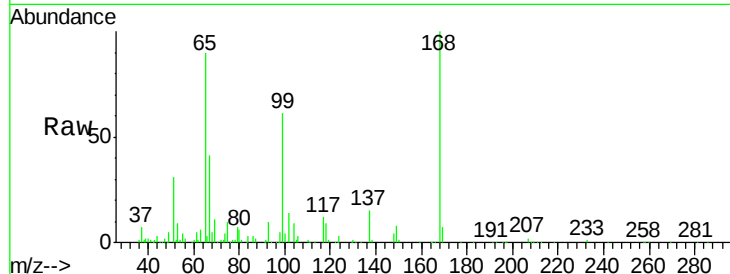
#33
 1,2-Dichloroethane-d4
 Concen: 53.660 ug/l
 RT: 5.07 min Scan# 461
 Delta R.T. 0.03 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	47.4	0.0		98.8

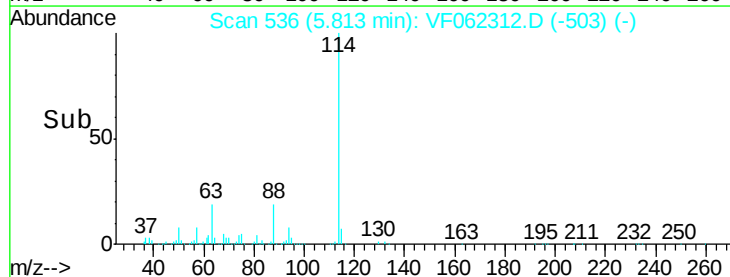
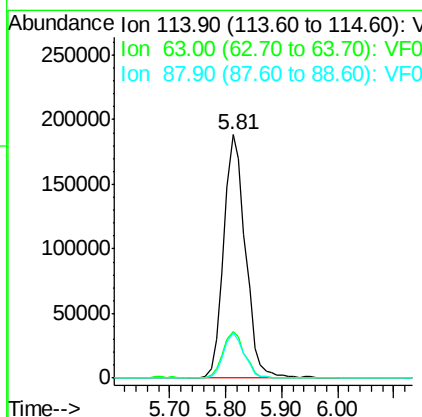
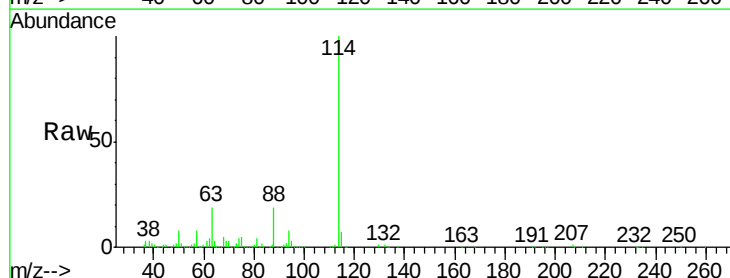
Manual Integrations
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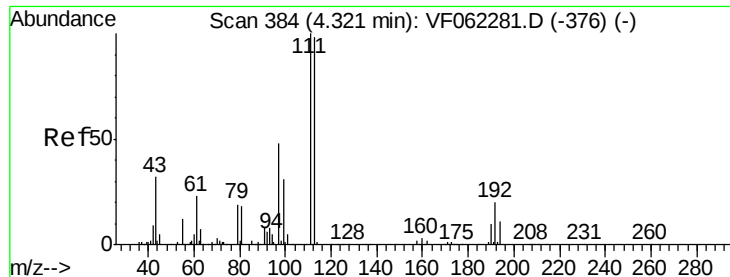
MMDadoda
 4/29/2019 3:59:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.81 min Scan# 536
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.1	0.0		35.6
88	18.8	0.0		34.6





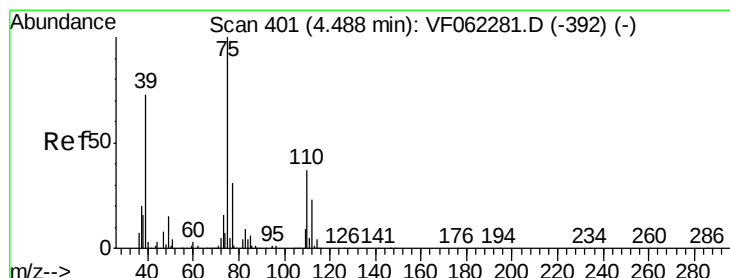
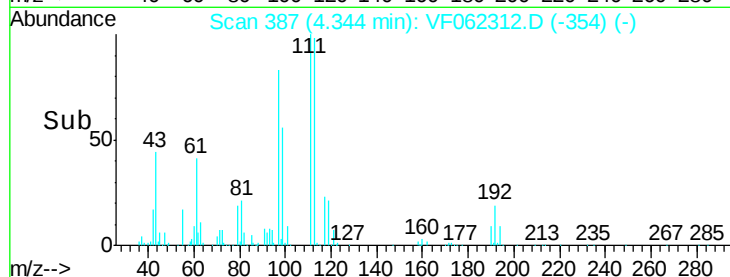
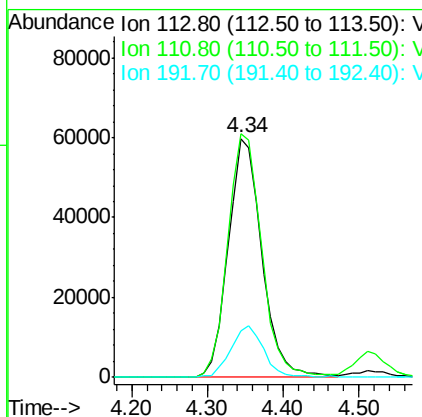
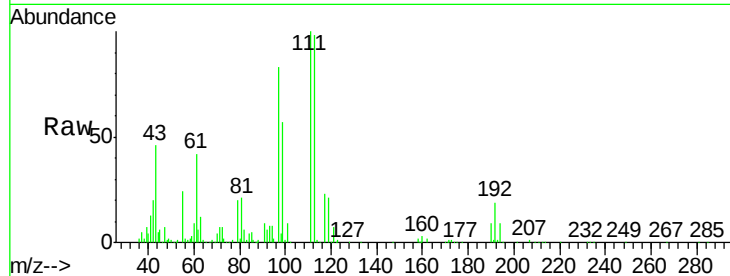
#35
 Dibromofluoromethane
 Concen: 48.682 ug/l
 RT: 4.34 min Scan# 387
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	184205		
111	102.4	81.4	122.2	
192	21.1	17.0	25.4	

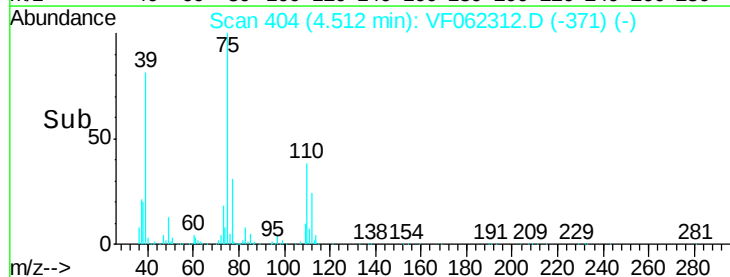
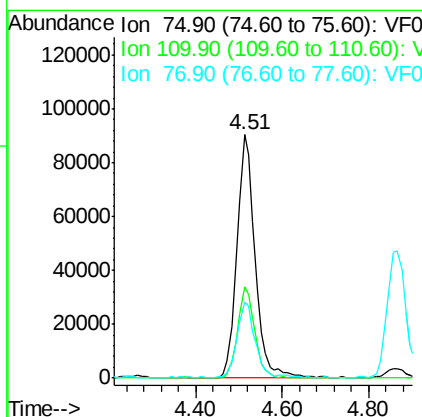
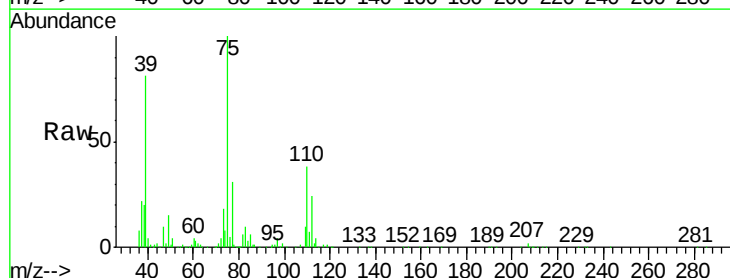
Manual Integrations
 APPROVED

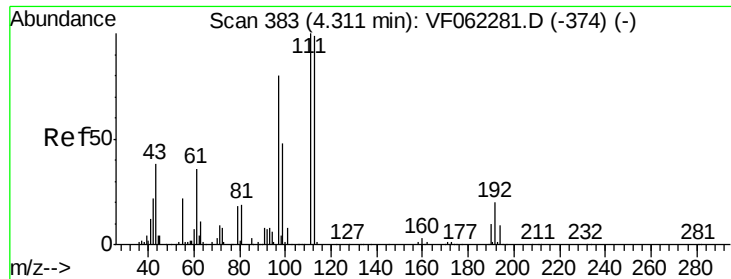
MMDadoda
 4/29/2019 3:59:56 PM



#36
 1,1-Dichloropropene
 Concen: 56.263 ug/l
 RT: 4.51 min Scan# 404
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	264899		
110	35.4	17.9	53.8	
77	30.0	24.6	36.8	





#37

Ethyl Acetate

Concen: 53.128 ug/l

RT: 4.34 min Scan# 387

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 105233

Ion Ratio Lower Upper

43 100

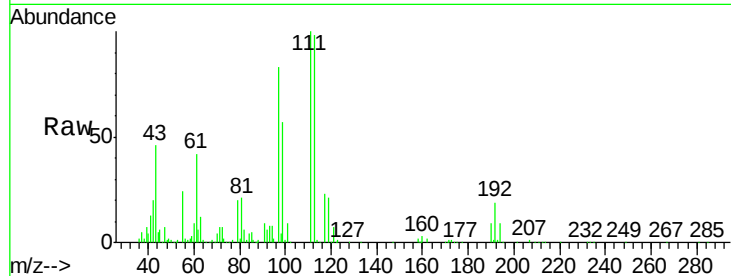
61 0.0 85.8 128.6#

70 10.0 7.3 10.9

Manual Integrations
APPROVED

MMDadoda

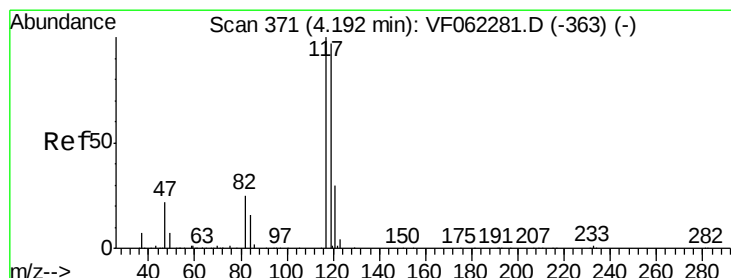
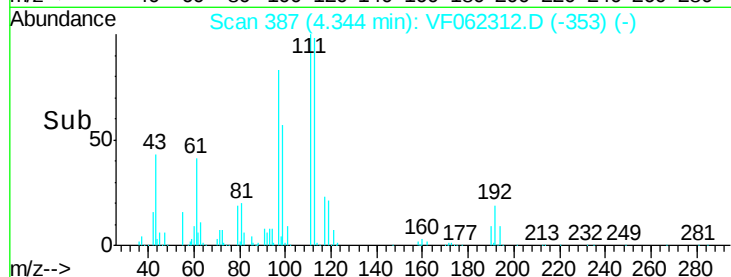
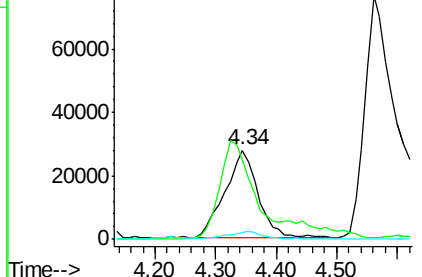
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 55.432 ug/l

RT: 4.23 min Scan# 375

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

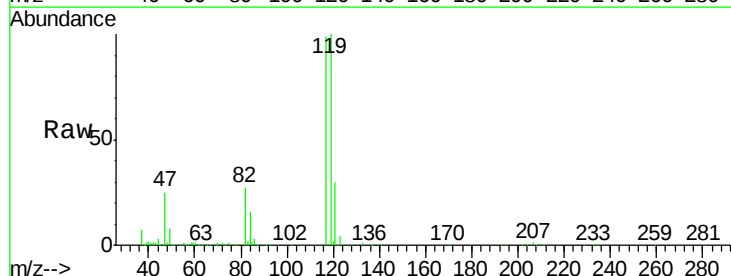
Tgt Ion: 117 Resp: 265316

Ion Ratio Lower Upper

117 100

119 100.7 77.3 115.9

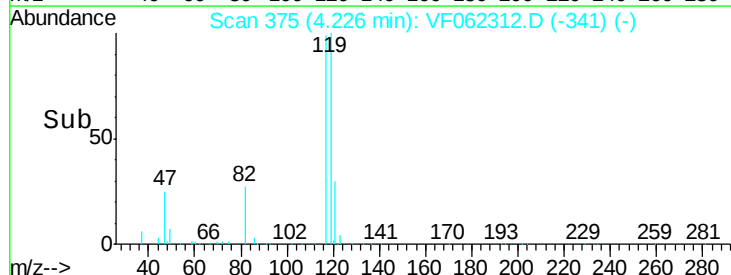
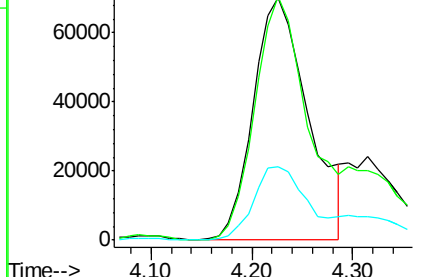
121 30.3 24.3 36.5

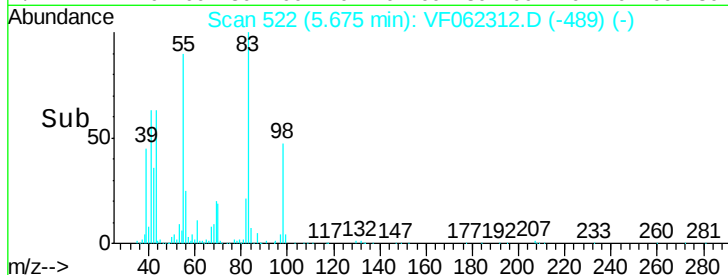
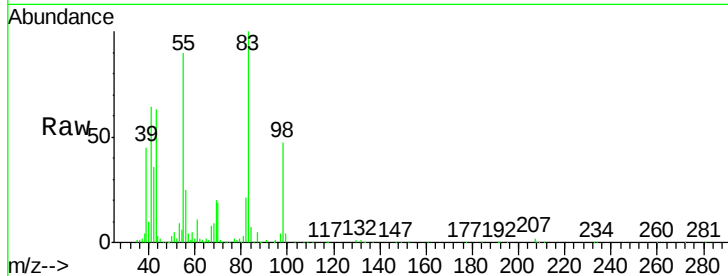
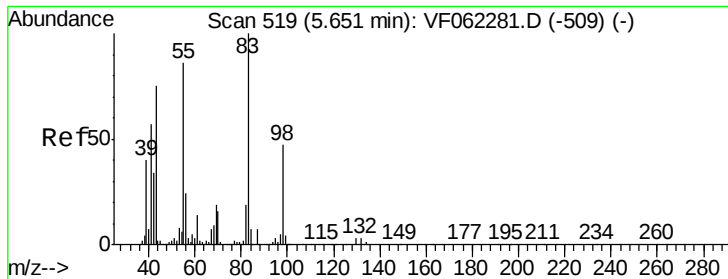


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





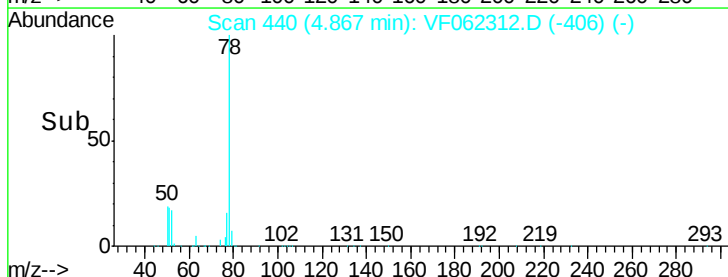
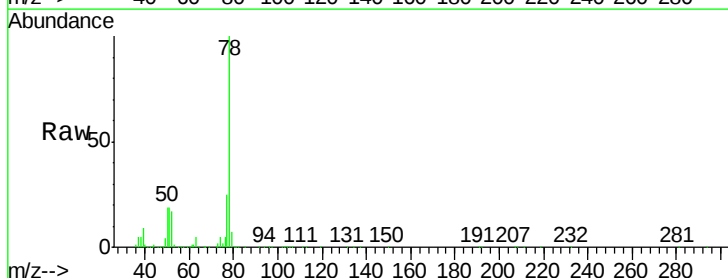
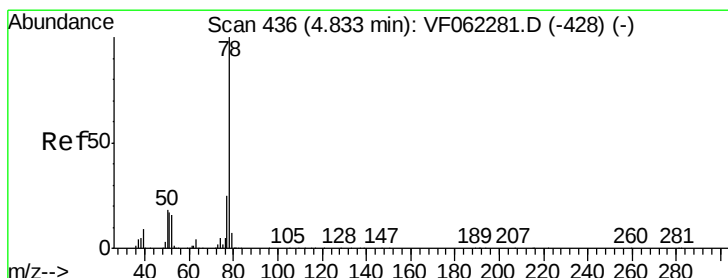
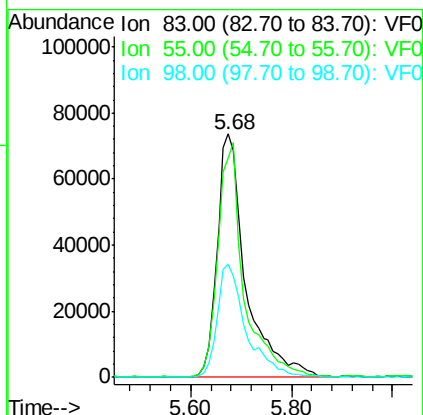
#39
Methylvlcvclohexane
Concen: 53.296 ug/l
RT: 5.68 min Scan# 522
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tot Ion	83	Resp	292925
Ion Ratio	Lower	Upper	
83	100		
55	89.6	68.7	103.1
98	46.7	37.4	56.2

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

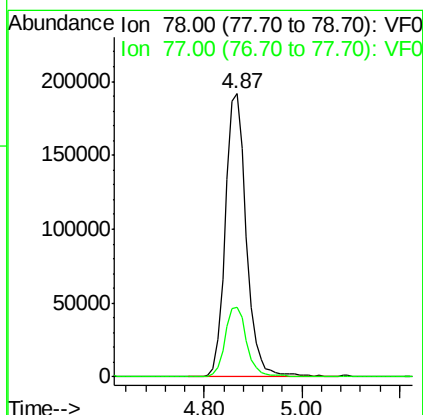
Manual Integrations
APPROVED

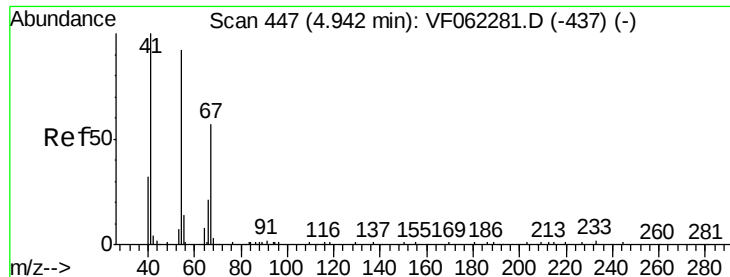
MMDadoda
4/29/2019 3:59:56 PM



#40
Benzene
Concen: 50.541 ug/l
RT: 4.87 min Scan# 440
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	78	Resp	574915
Ion Ratio	Lower	Upper	
78	100		
77	24.6	19.7	29.5





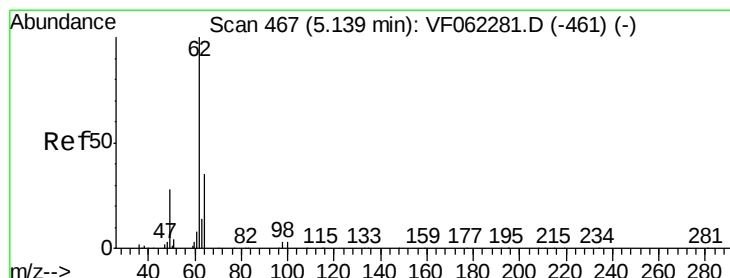
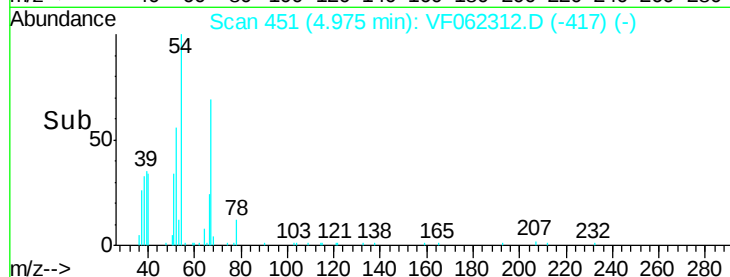
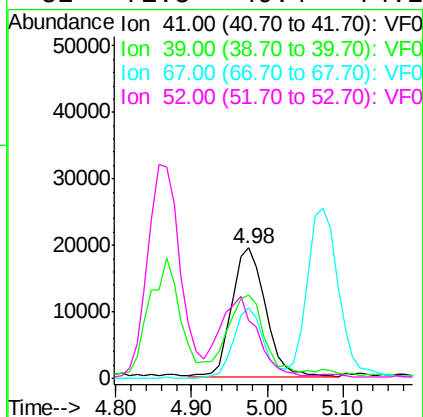
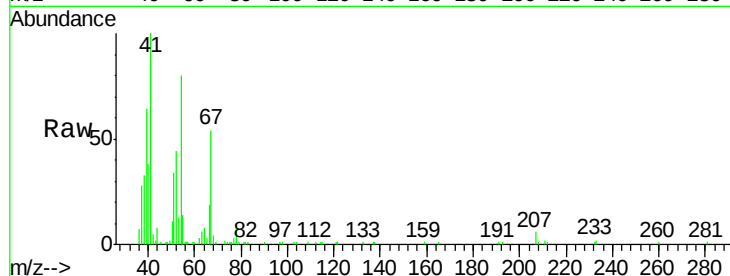
#41
Methacrylonitrile
Concen: 53.870 ug/l
RT: 4.98 min Scan# 451
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
59278	41	100		
	39	64.1	47.3	70.9
	67	49.5	41.3	61.9
	52	71.5	49.4	74.2

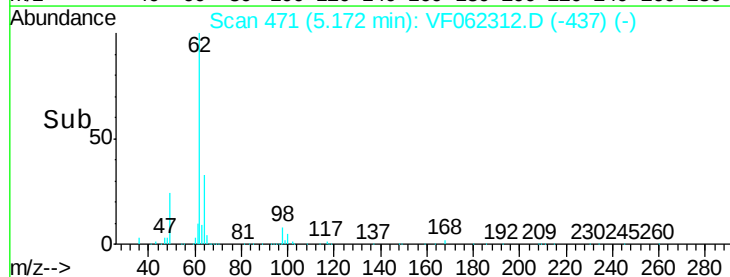
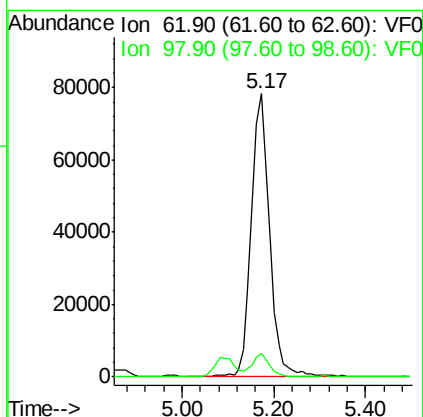
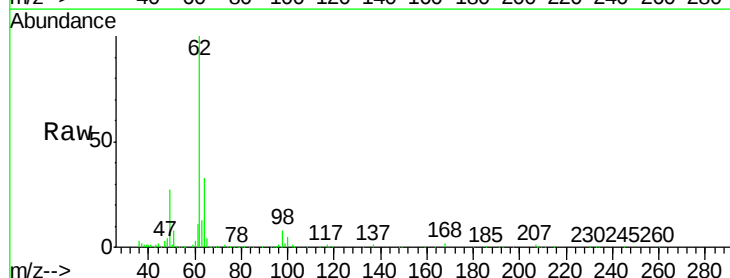
Manual Integrations
APPROVED

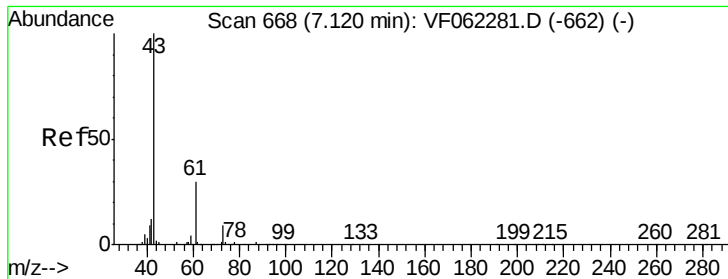
MMDadoda
4/29/2019 3:59:56 PM



#42
1,2-Dichloroethane
Concen: 61.412 ug/l
RT: 5.17 min Scan# 471
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ion	Ratio	Lower	Upper
221310	62	100		
	98	7.7	0.0	16.8





#43

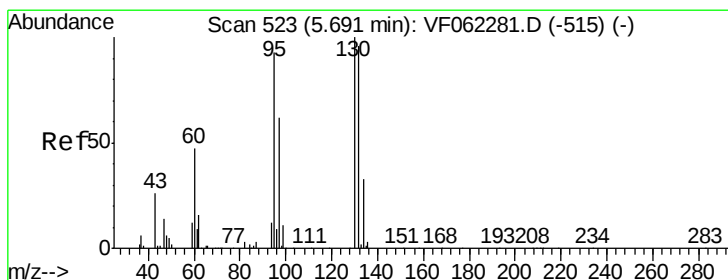
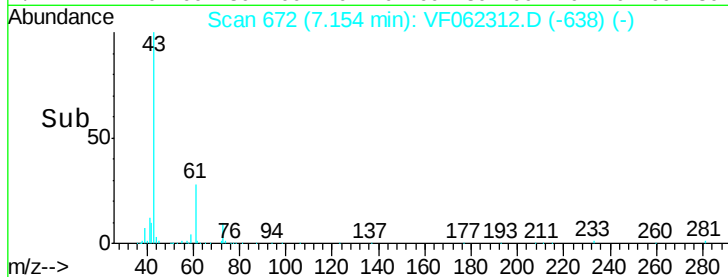
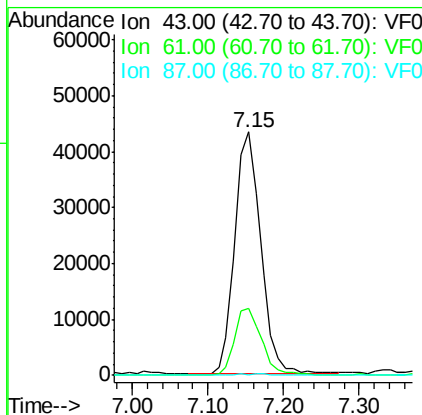
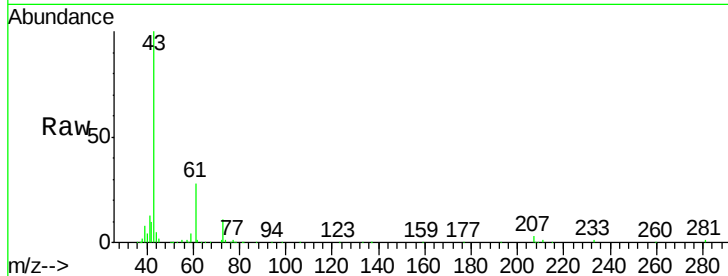
Isopropyl Acetate
 Concen: 50.913 ug/l
 RT: 7.15 min Scan# 672
 Delta R.T. 0.03 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.7	23.8	35.6
87	0.4	0.5	0.7#

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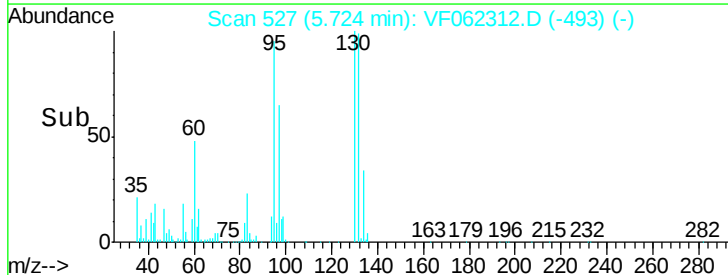
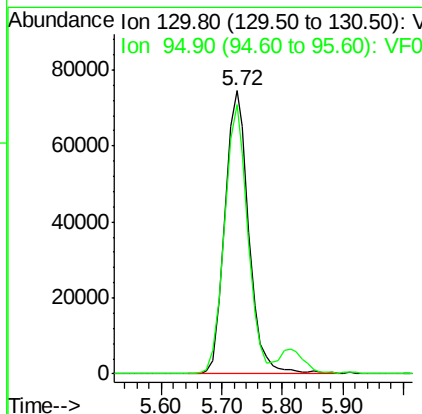
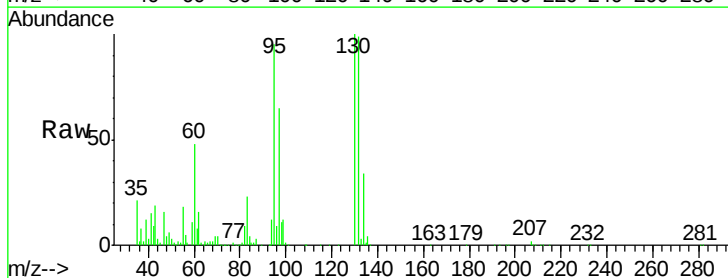
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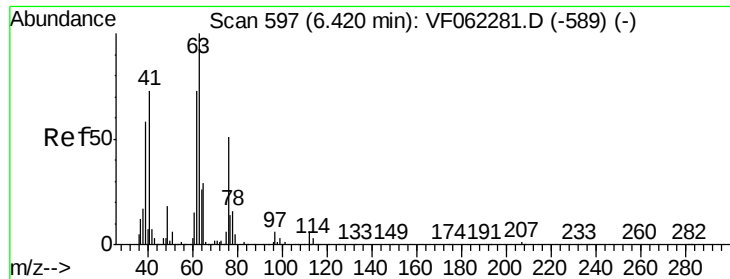


#44

Trichloroethene
 Concen: 53.062 ug/l
 RT: 5.72 min Scan# 527
 Delta R.T. 0.03 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	186.4





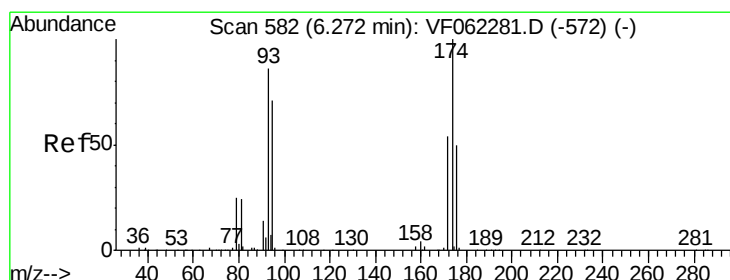
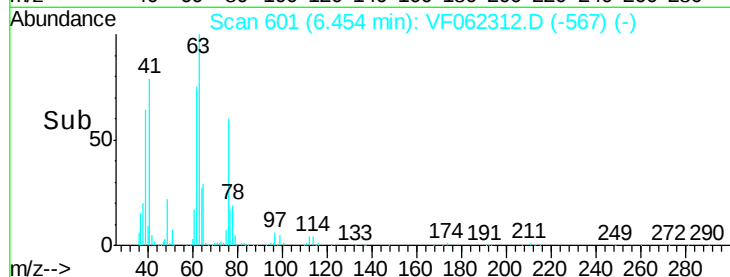
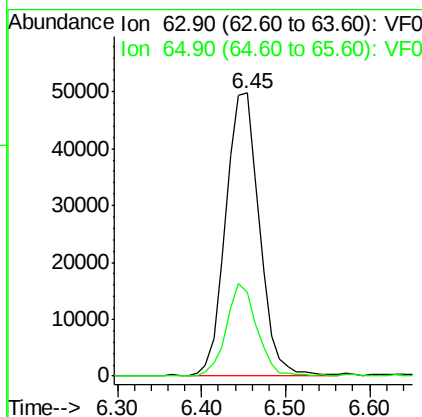
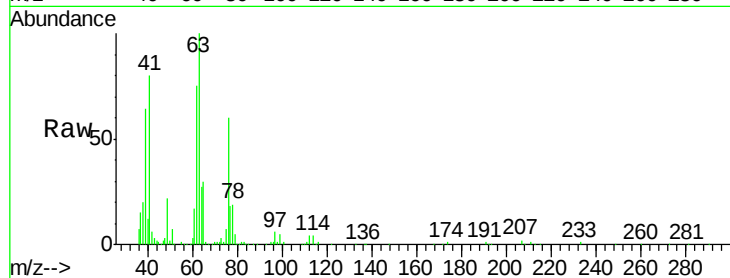
#45
 1,2-Dichloropropane
 Concen: 54.173 ug/l
 RT: 6.45 min Scan# 601
 Delta R.T. 0.03 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 138939
 Ion Ratio Lower Upper
 63 100
 65 29.6 23.5 35.3

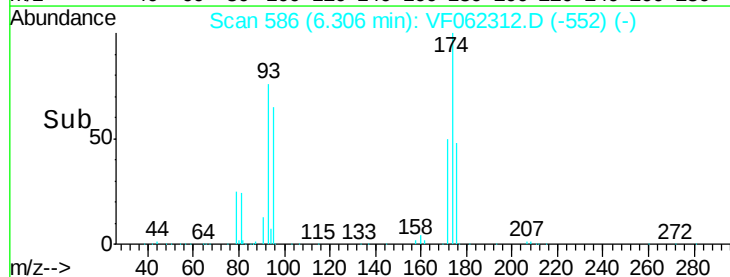
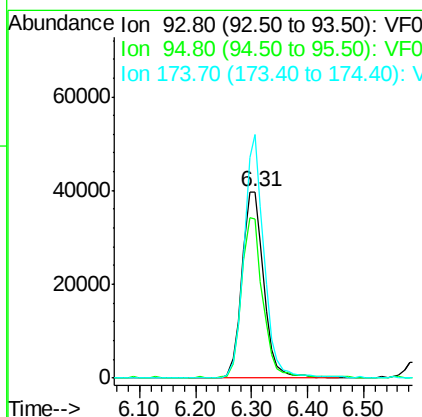
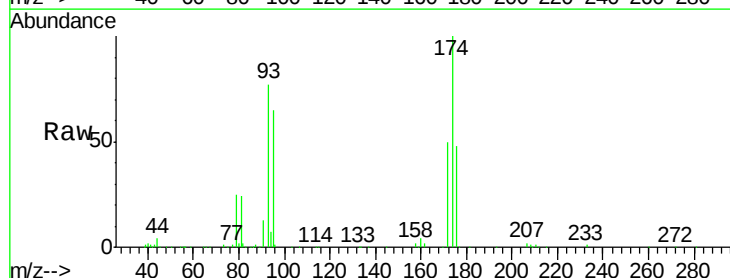
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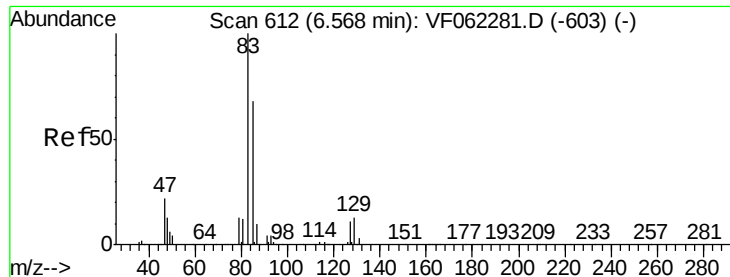
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#46
 Dibromomethane
 Concen: 57.967 ug/l
 RT: 6.31 min Scan# 586
 Delta R.T. 0.03 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion: 93 Resp: 107352
 Ion Ratio Lower Upper
 93 100
 95 84.2 66.2 99.4
 174 118.6 94.9 142.3





#47

Bromodichloromethane

Concen: 58.530 ug/l

RT: 6.59 min Scan# 615

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

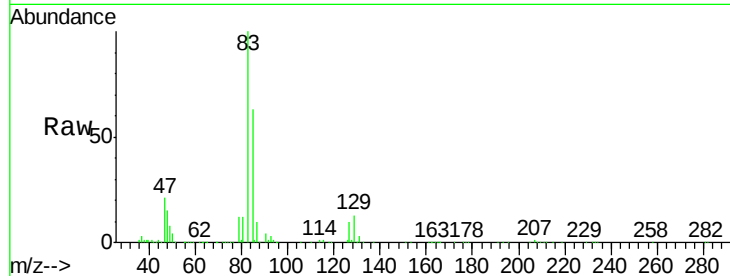
ClientSampleId :

VSTDCCC050EC

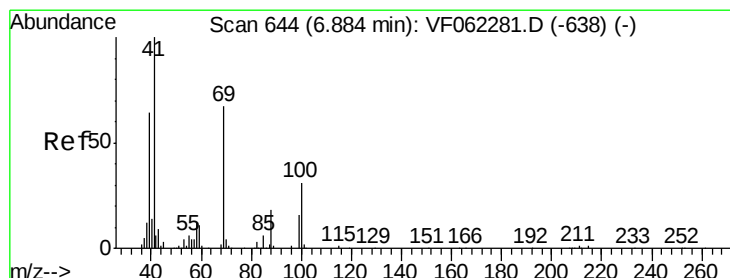
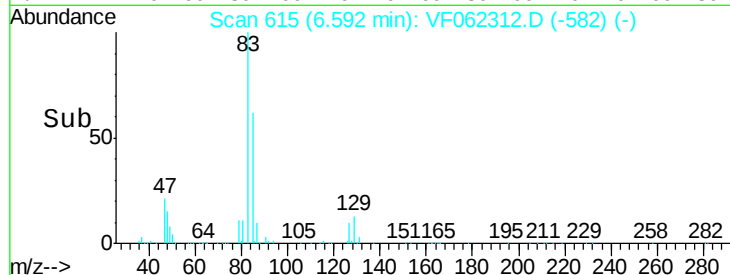
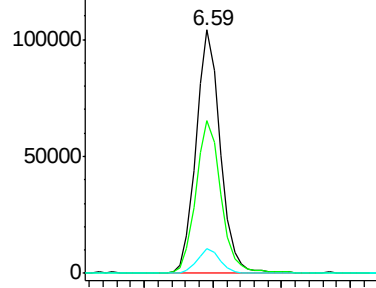
Tot Ion:	83	Resp:	254820
Ion Ratio	Lower	Upper	
83	100		
85	62.7	54.6	81.8
127	9.9	8.7	13.1

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 49.961 ug/l

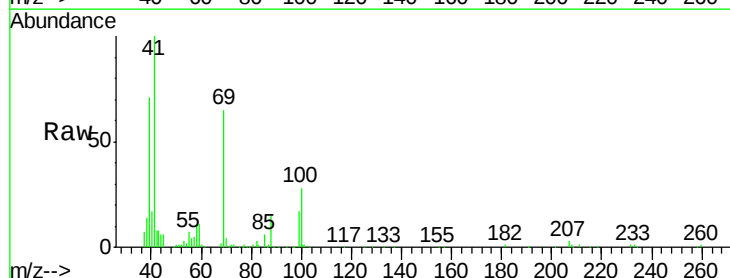
RT: 6.92 min Scan# 648

Delta R.T. 0.03 min

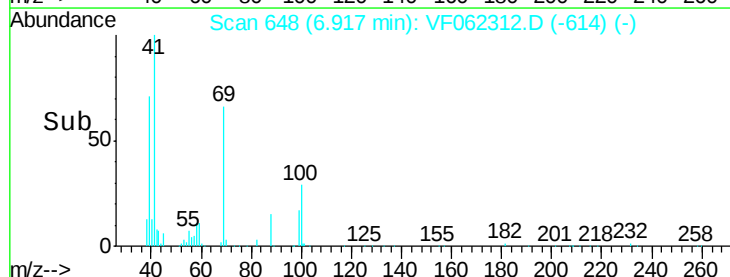
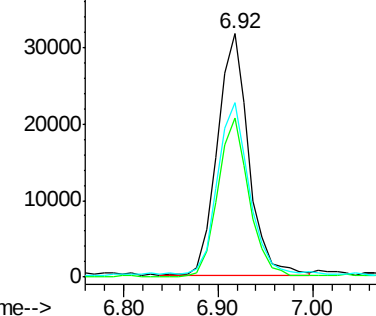
Lab File: VF062312.D

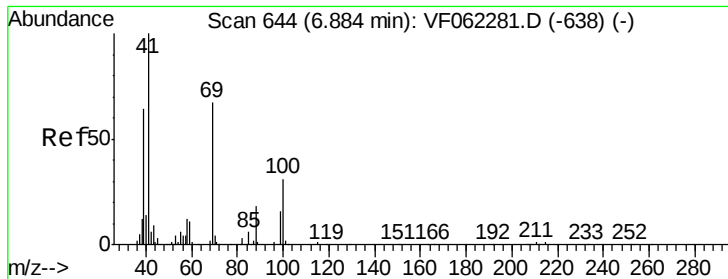
Acq: 26 Apr 2019 19:17

Tgt Ion:	41	Resp:	72502
Ion Ratio	Lower	Upper	
41	100		
69	66.3	53.4	80.2
39	71.6	50.9	76.3



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 998.733 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

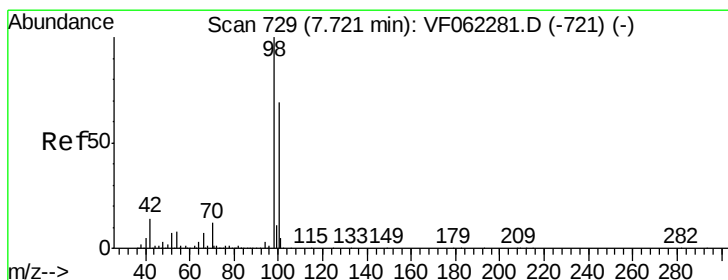
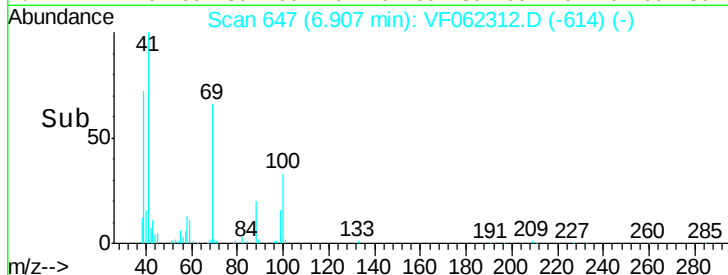
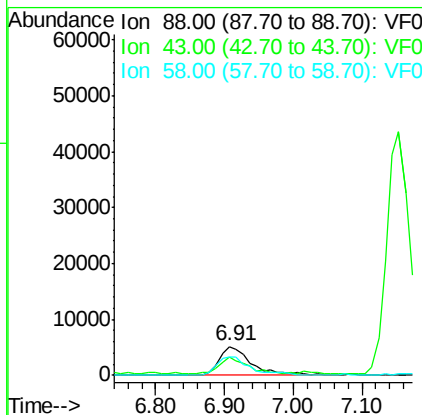
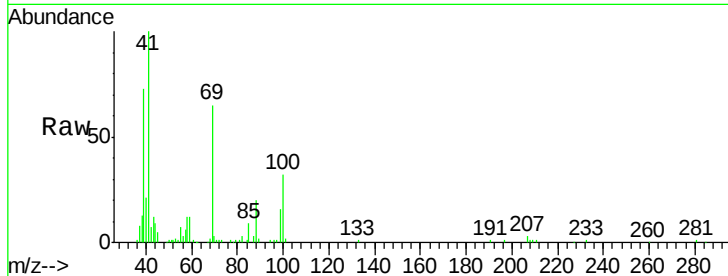
ClientSampleId :

VSTDCCC050EC

Tot Ion:	88	Resp:	16689
Ion	Ratio	Lower	Upper
88	100		
43	46.7	34.2	51.4
58	67.2	50.7	76.1

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#50

Toluene-d8

Concen: 46.612 ug/l

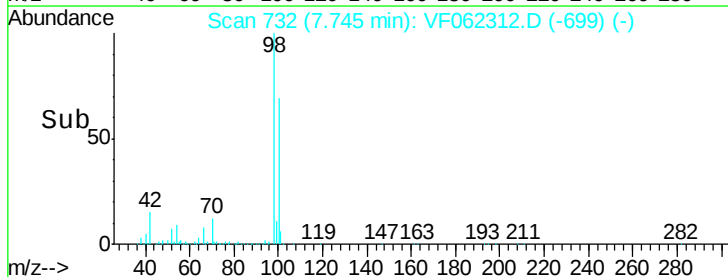
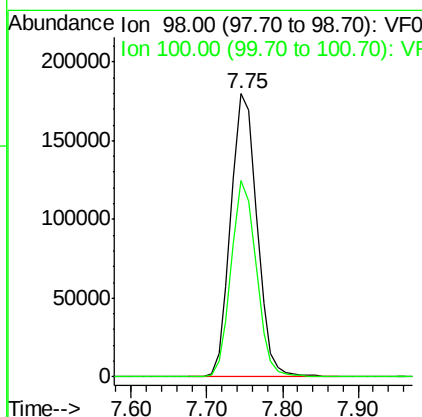
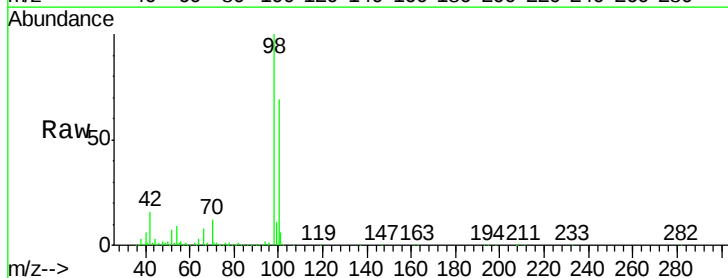
RT: 7.75 min Scan# 732

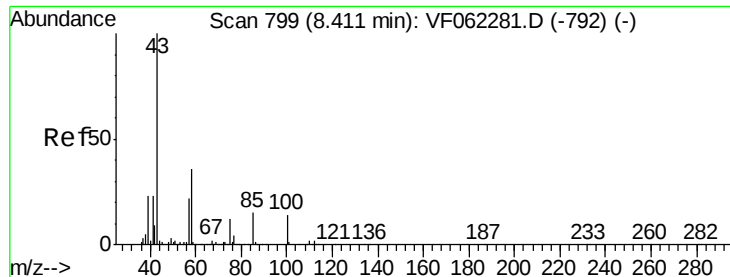
Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	98	Resp:	430808
Ion	Ratio	Lower	Upper
98	100		
100	66.9	54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 255.065 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 398071

Ion Ratio Lower Upper

43 100

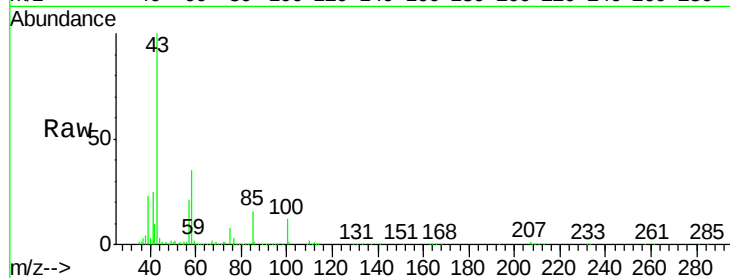
58 35.1 29.1 43.7

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

200000

150000

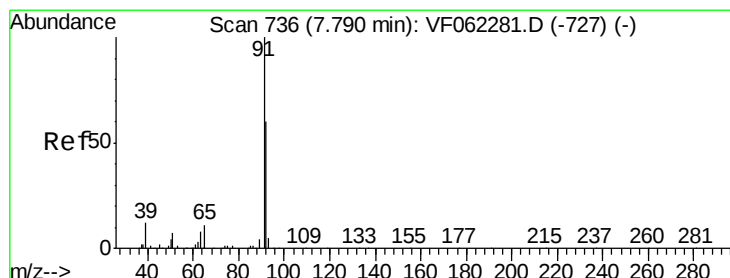
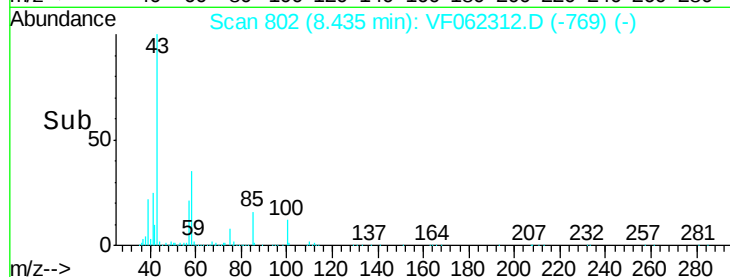
100000

50000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 50.089 ug/l

RT: 7.81 min Scan# 739

Delta R.T. 0.02 min

Lab File: VF062312.D

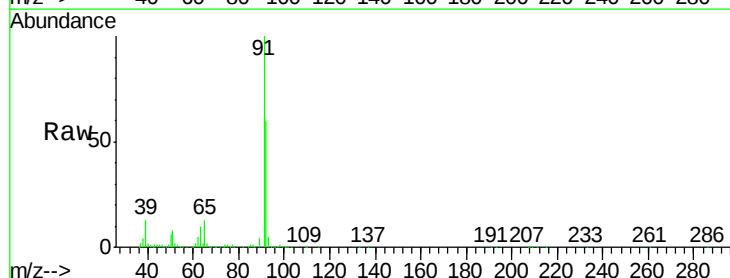
Acq: 26 Apr 2019 19:17

Tgt Ion: 92 Resp: 328781

Ion Ratio Lower Upper

92 100

91 168.4 132.5 198.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

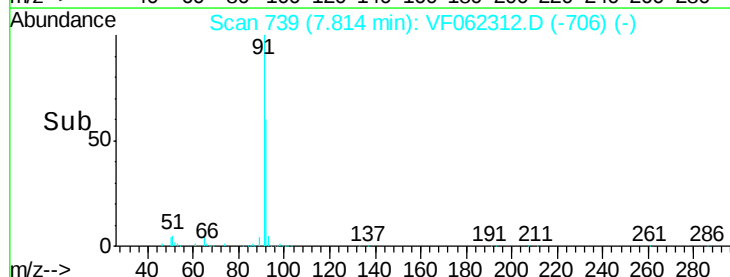
100000

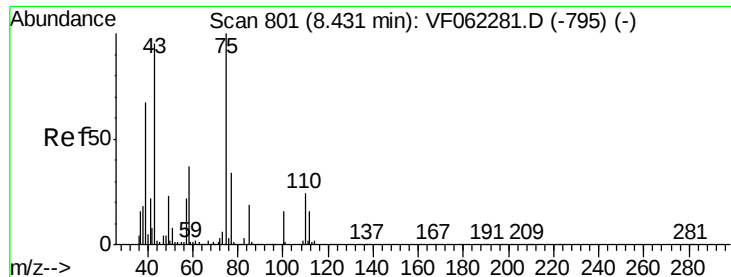
50000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 52.519 ug/l

RT: 8.46 min Scan# 805

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tot Ion: 75 Resp: 168135

Ion Ratio Lower Upper

75 100

77 32.1 26.9 40.3

Instrument :

MSVOA_F

ClientSampleId :

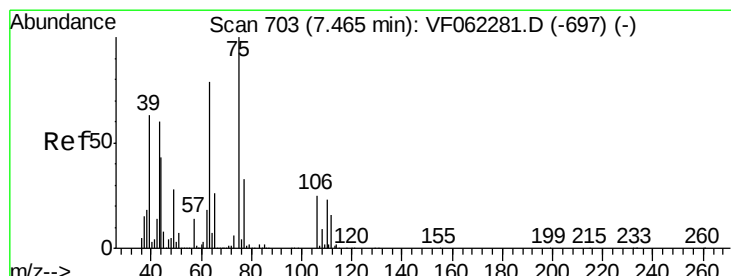
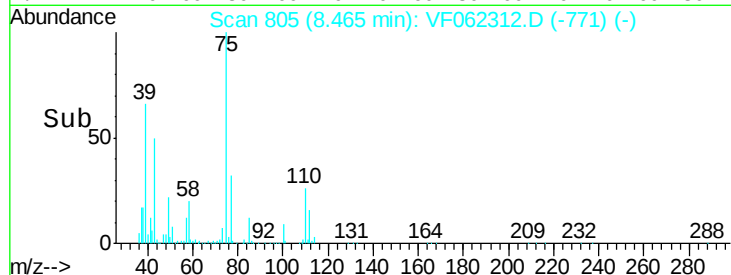
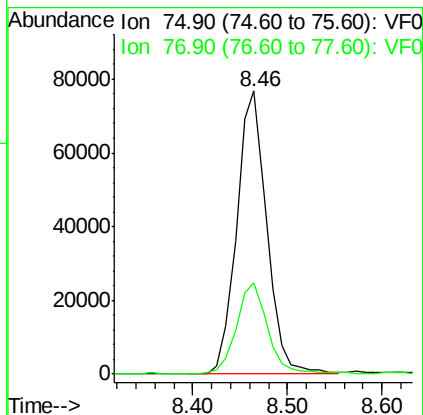
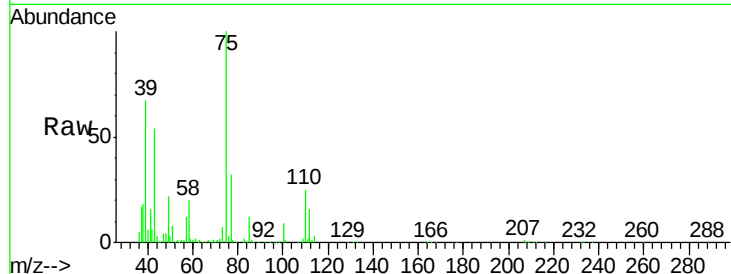
VSTDCCC050EC

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#54

cis-1,3-Dichloropropene

Concen: 53.532 ug/l

RT: 7.50 min Scan# 707

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

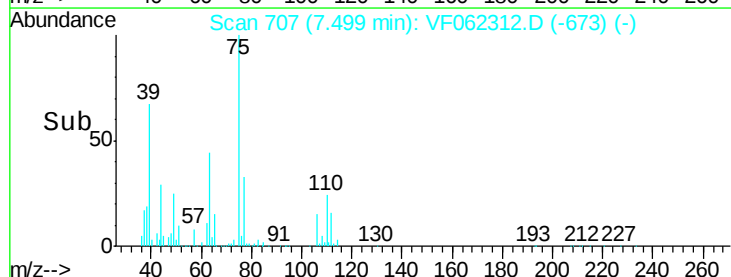
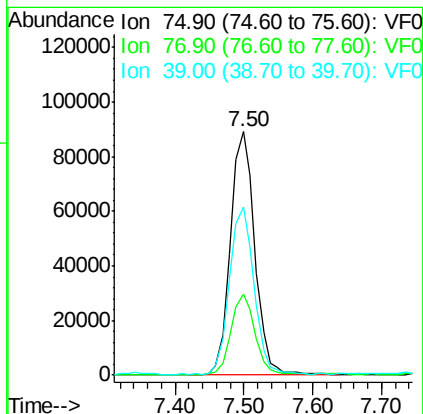
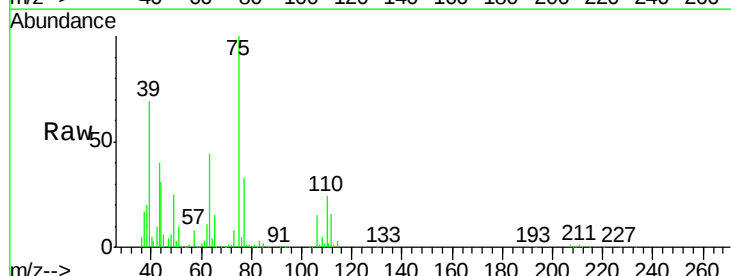
Tgt Ion: 75 Resp: 219547

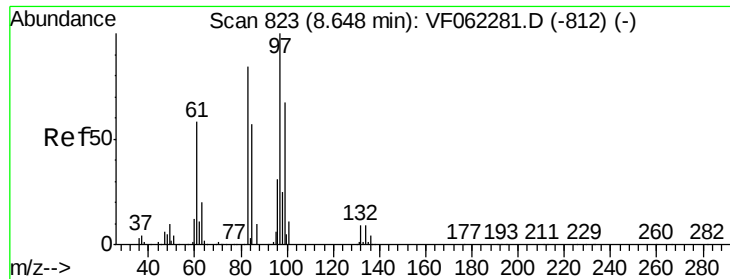
Ion Ratio Lower Upper

75 100

77 32.8 26.5 39.7

39 68.8 50.2 75.2





#55

1,1,2-Trichloroethane

Concen: 53.459 ug/l

RT: 8.67 min Scan# 826

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

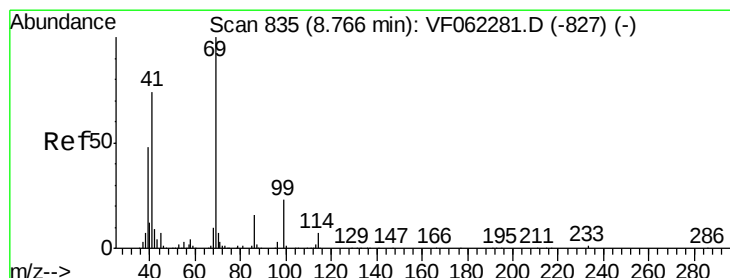
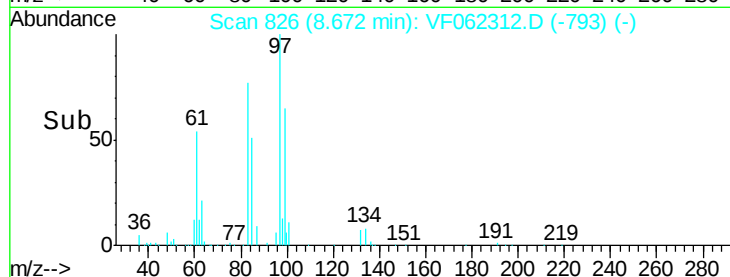
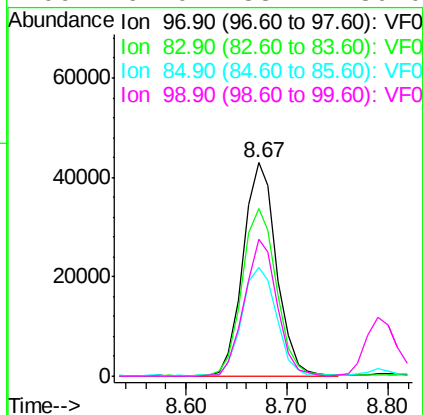
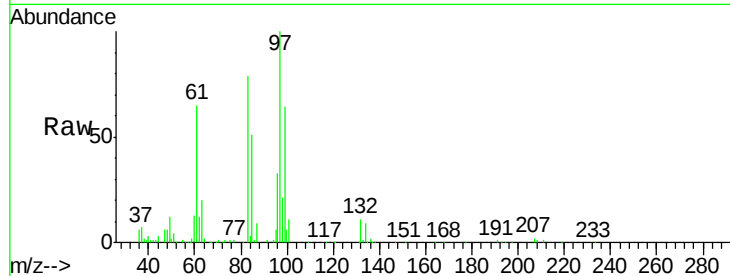
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	99659
Ion	Ratio	Lower	Upper
97	100		
83	78.5	67.5	101.3
85	50.7	45.3	67.9
99	64.0	53.4	80.0

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#56

Ethyl methacrylate

Concen: 51.578 ug/l

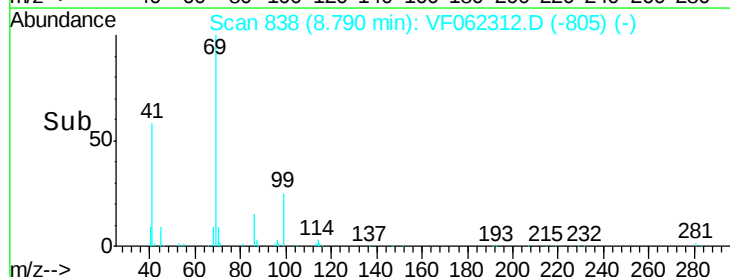
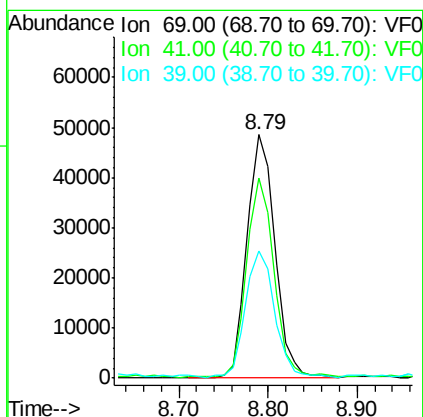
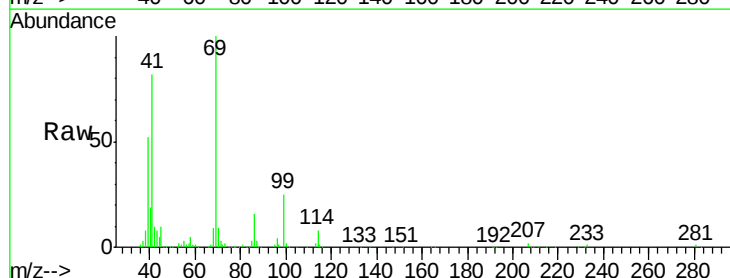
RT: 8.79 min Scan# 838

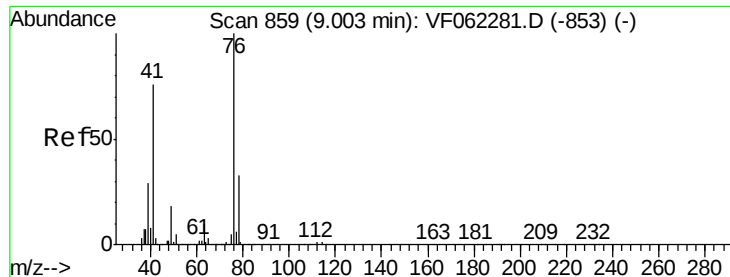
Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	69	Resp:	105634
Ion	Ratio	Lower	Upper
69	100		
41	80.0	61.5	92.3
39	55.4	37.9	56.9





#57

1,3-Dichloropropane

Concen: 52.898 ug/l

RT: 9.04 min Scan# 863

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 155048

Ion Ratio Lower Upper

76 100

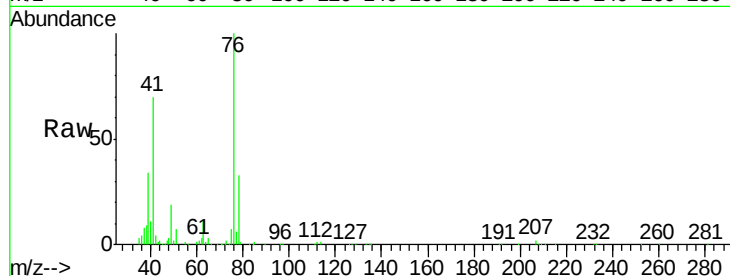
78 33.1 27.0 40.6

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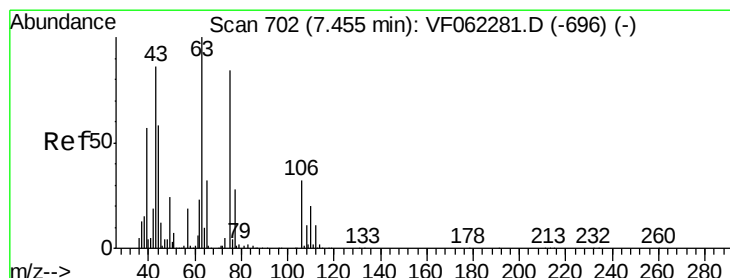
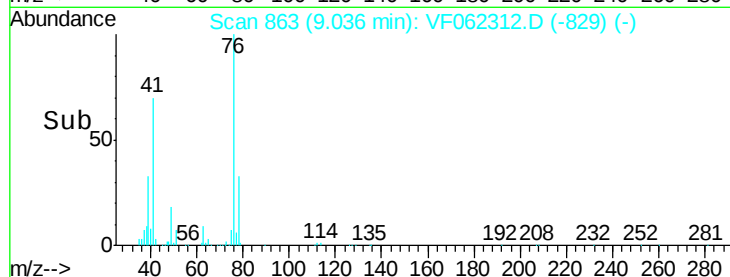
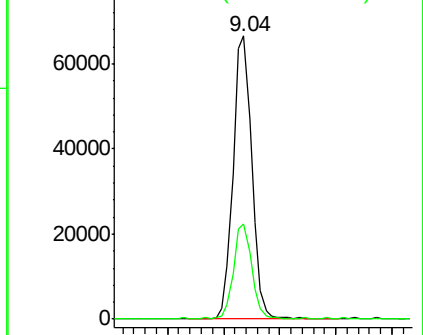
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Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 206.303 ug/l

RT: 7.49 min Scan# 706

Delta R.T. 0.03 min

Lab File: VF062312.D

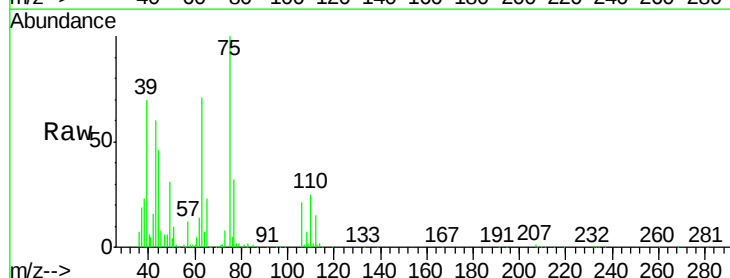
Acq: 26 Apr 2019 19:17

Tgt Ion: 63 Resp: 128568

Ion Ratio Lower Upper

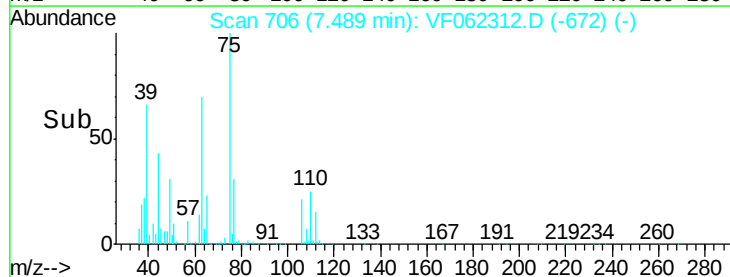
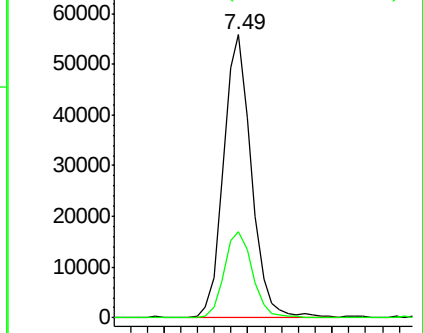
63 100

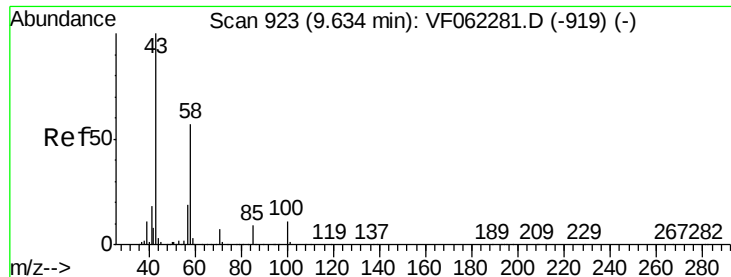
106 31.1 24.7 37.1



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V





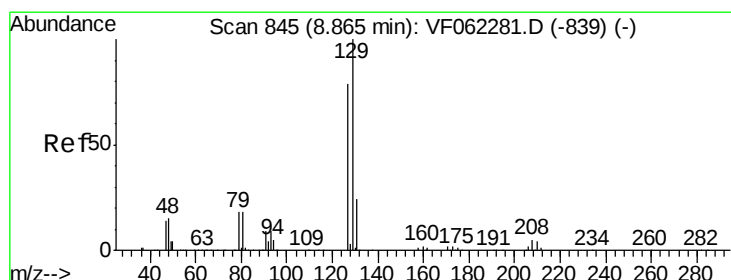
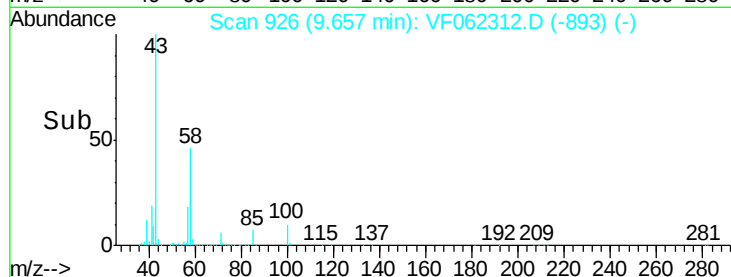
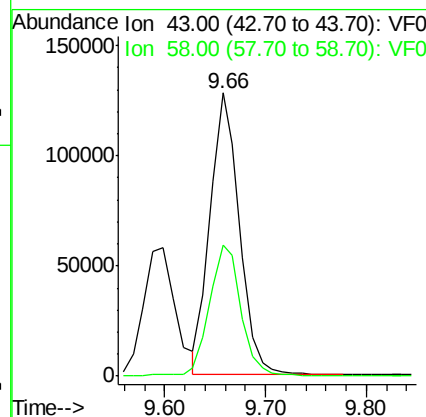
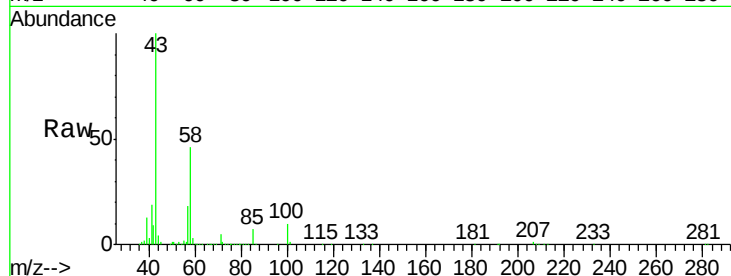
#59
2-Hexanone
Concen: 273.138 ug/l
RT: 9.66 min Scan# 926
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 258952
Ion Ratio Lower Upper
43 100
58 50.8 24.9 74.7

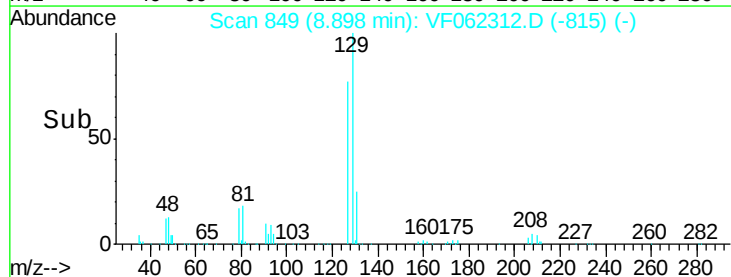
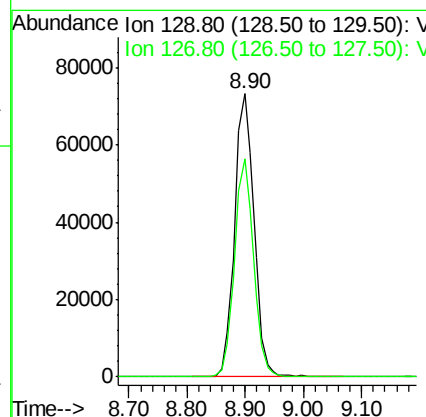
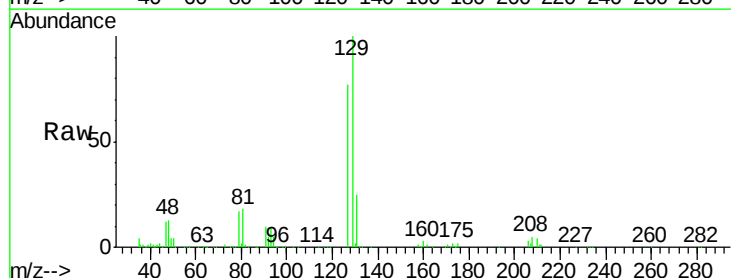
Manual Integrations
APPROVED

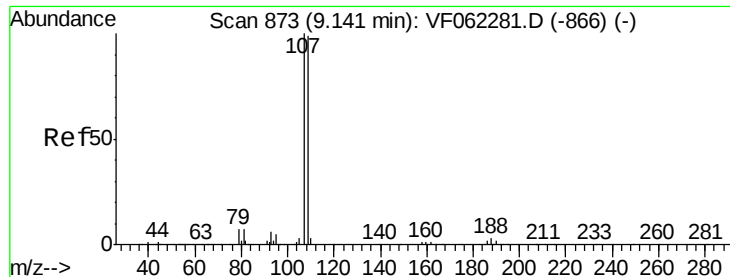
MMDadoda
4/29/2019 3:59:56 PM



#60
Dibromochloromethane
Concen: 56.446 ug/l
RT: 8.90 min Scan# 849
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion: 129 Resp: 170785
Ion Ratio Lower Upper
129 100
127 75.2 38.8 116.4





#61

1,2-Dibromoethane

Concen: 53.230 ug/l

RT: 9.16 min Scan# 876

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 114849

Ion Ratio Lower Upper

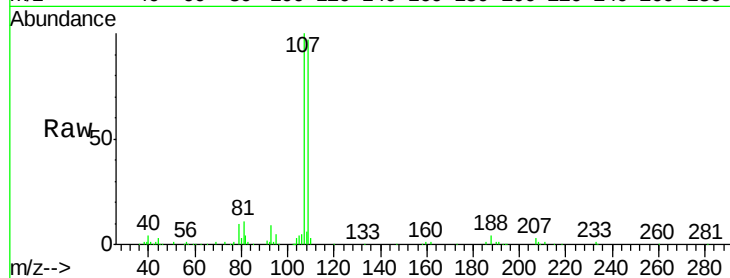
107 100

109 98.2 78.7 118.1

Manual Integrations
APPROVED

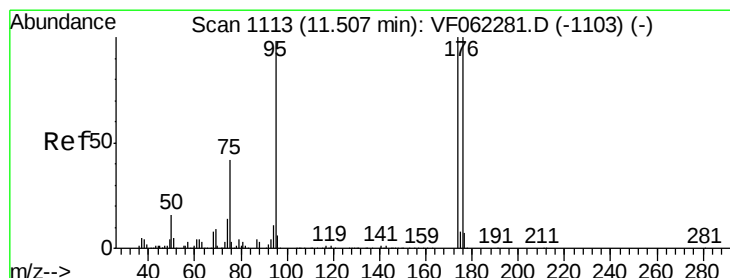
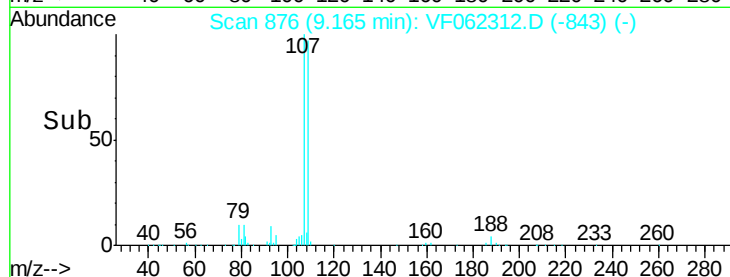
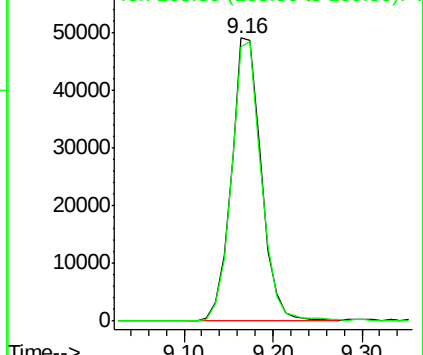
MMDadoda

4/29/2019 3:59:56 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 45.081 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

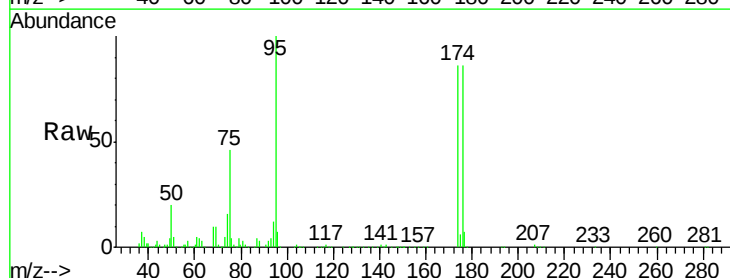
Tgt Ion: 95 Resp: 171740

Ion Ratio Lower Upper

95 100

174 94.2 0.0 185.2

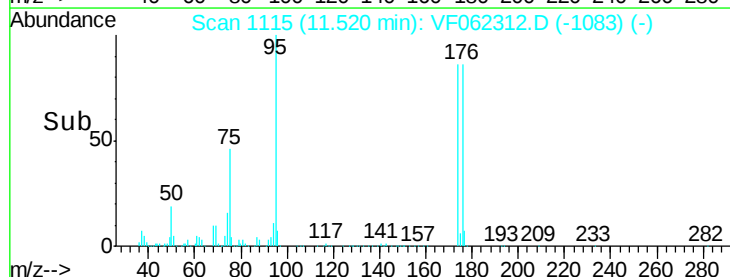
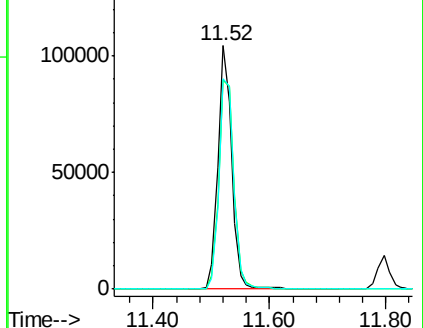
176 93.3 0.0 184.8

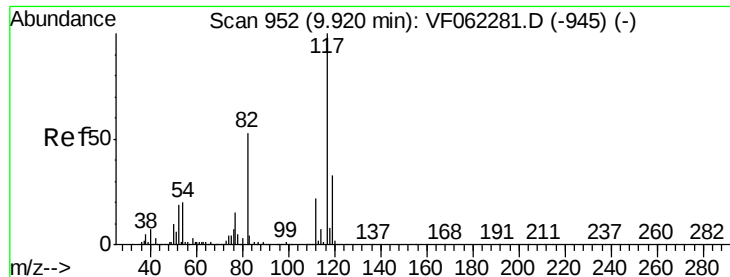


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





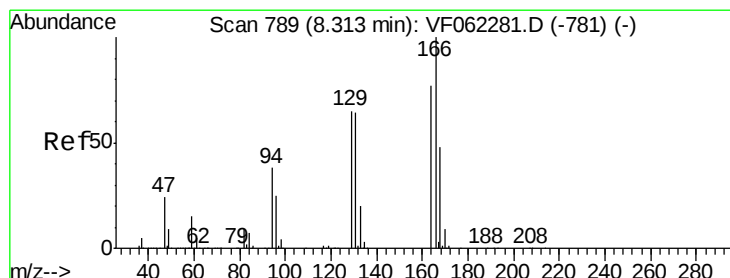
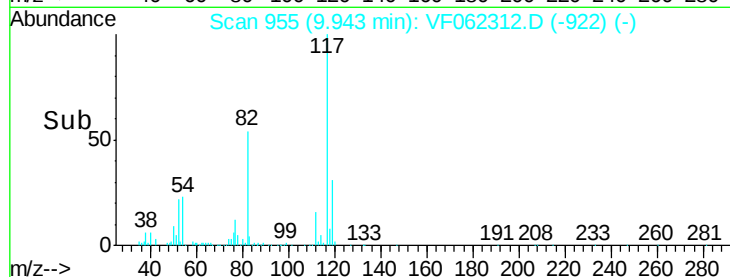
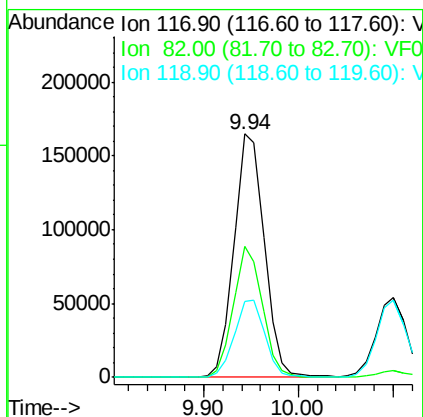
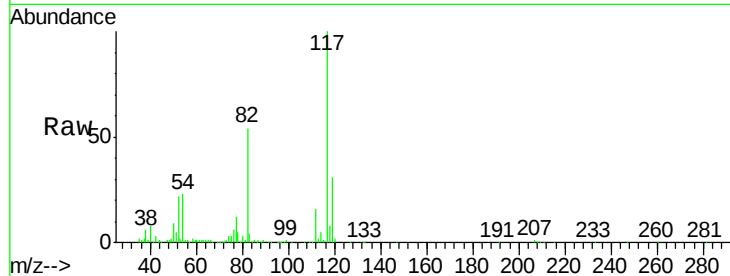
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.94 min Scan# 955
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.6	64.0
119	31.2	26.1	39.1

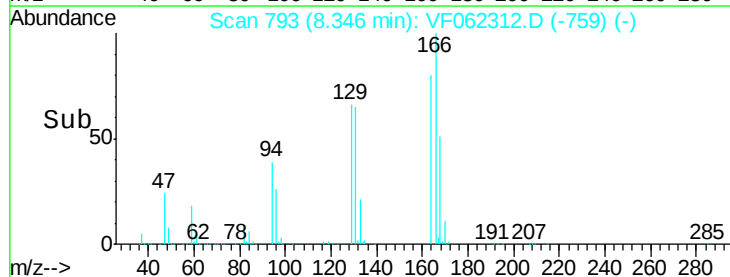
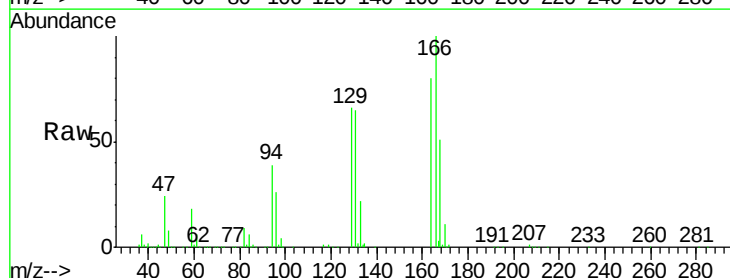
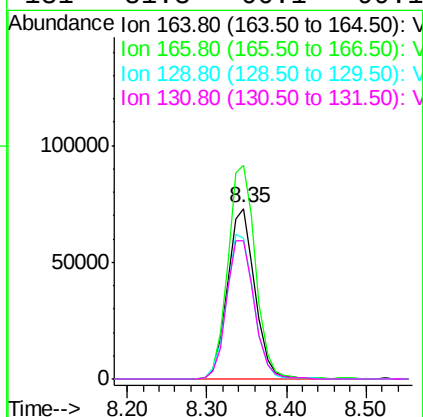
Manual Integrations
APPROVED

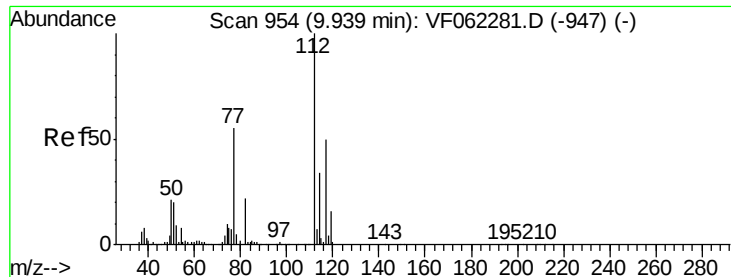
MMDadoda
4/29/2019 3:59:56 PM



#64
Tetrachloroethene
Concen: 57.036 ug/l
RT: 8.35 min Scan# 793
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	103.5	155.3
129	82.6	67.6	101.4
131	81.3	66.1	99.1





#65

Chlorobenzene

Concen: 55.253 ug/l

RT: 9.97 min Scan# 958

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 370806

Ion Ratio Lower Upper

112 100

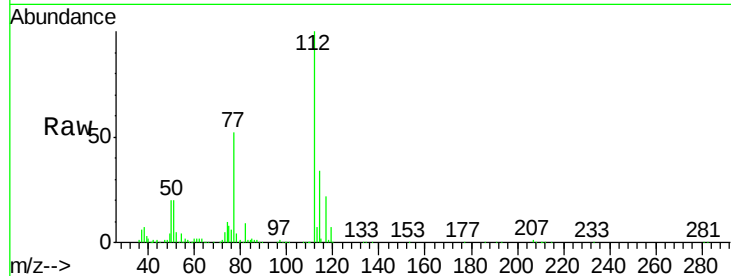
114 33.8 27.0 40.6

Manual Integrations

APPROVED

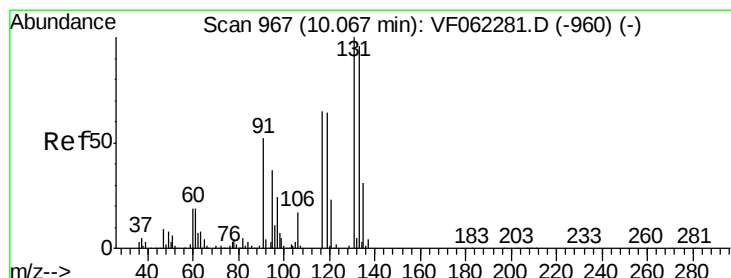
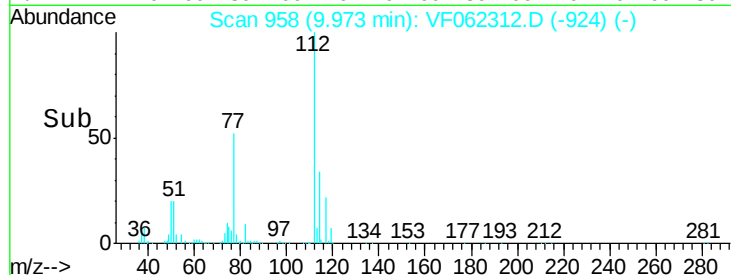
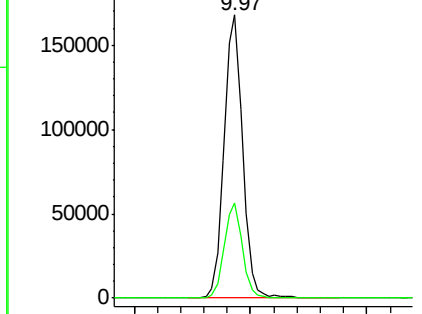
MMDadoda

4/29/2019 3:59:56 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 57.562 ug/l

RT: 10.10 min Scan# 971

Delta R.T. 0.03 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

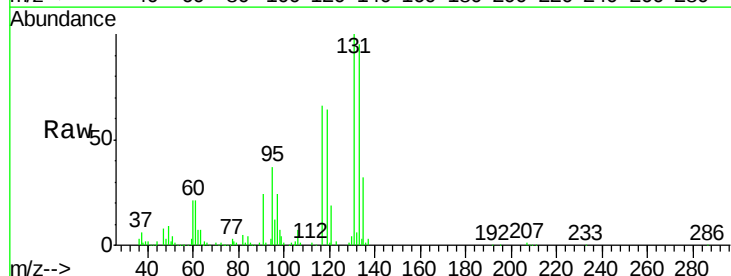
Tgt Ion:131 Resp: 181959

Ion Ratio Lower Upper

131 100

133 95.3 48.5 145.5

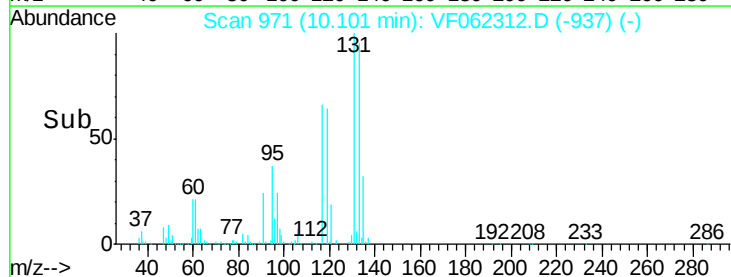
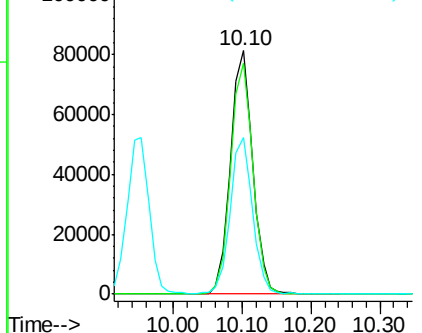
119 63.9 32.9 98.7

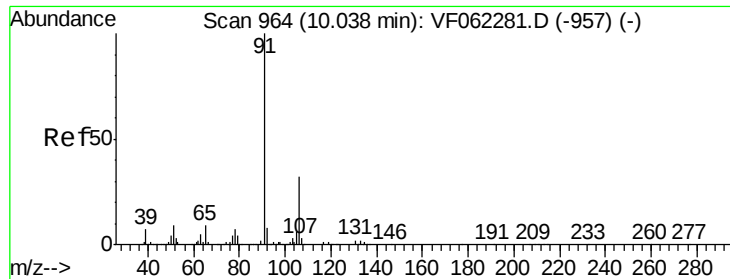


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





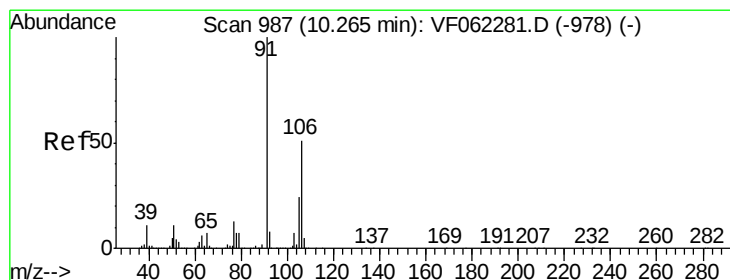
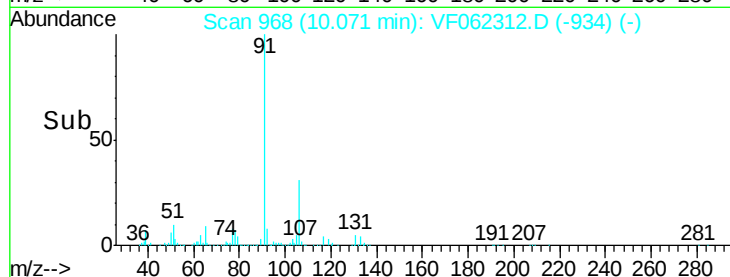
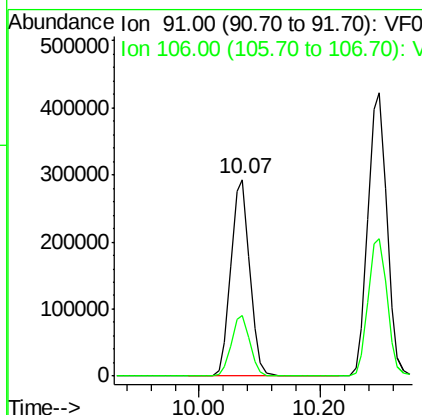
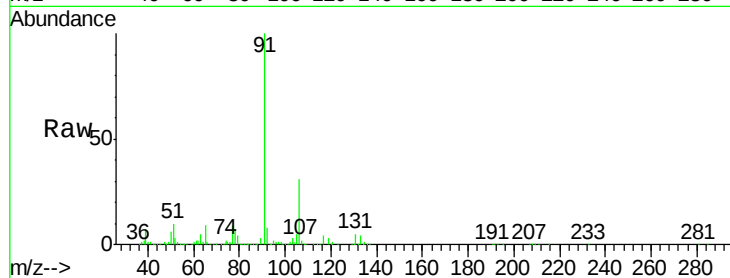
#67
Ethyl Benzene
Concen: 54.578 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 636774
Ion Ratio Lower Upper
91 100
106 30.8 25.6 38.4

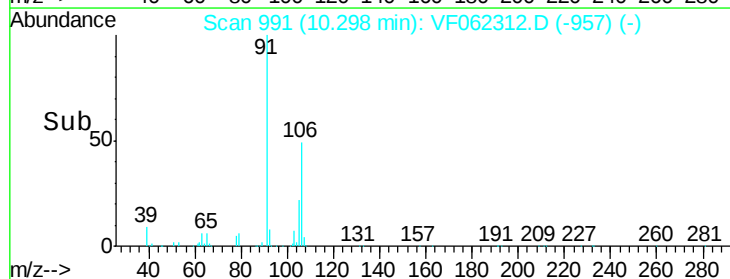
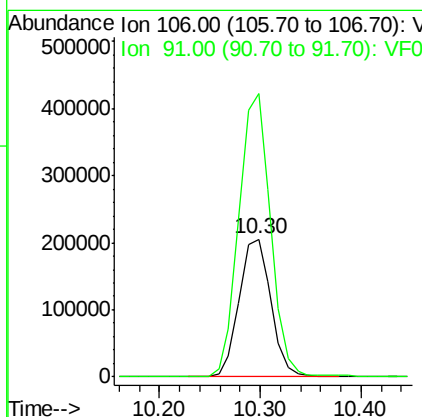
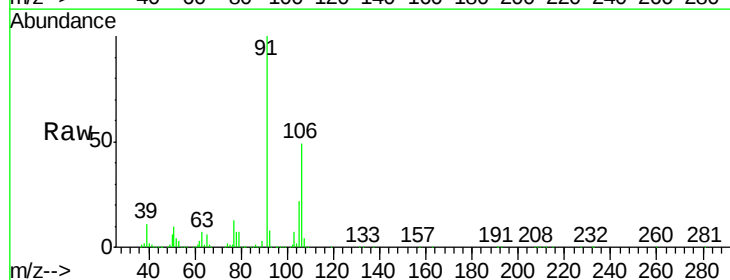
Manual Integrations
APPROVED

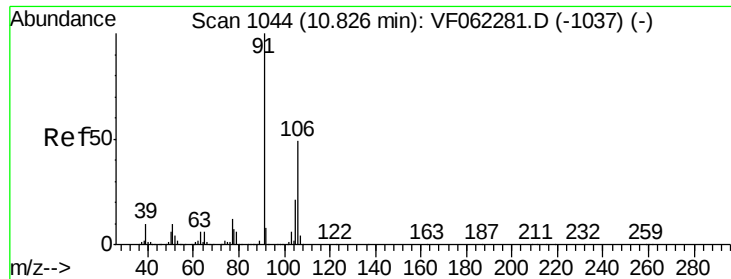
MMDadoda
4/29/2019 3:59:56 PM



#68
m/p-Xylenes
Concen: 103.796 ug/l
RT: 10.30 min Scan# 991
Delta R.T. 0.03 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion: 106 Resp: 450868
Ion Ratio Lower Upper
106 100
91 205.6 158.3 237.5





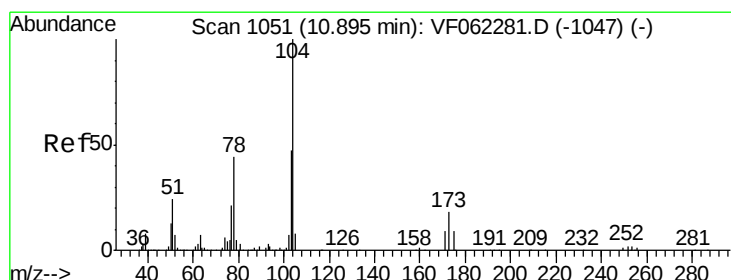
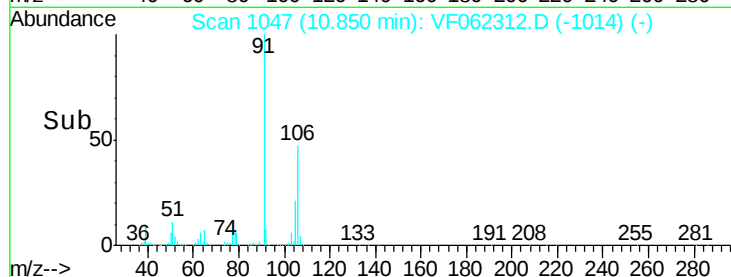
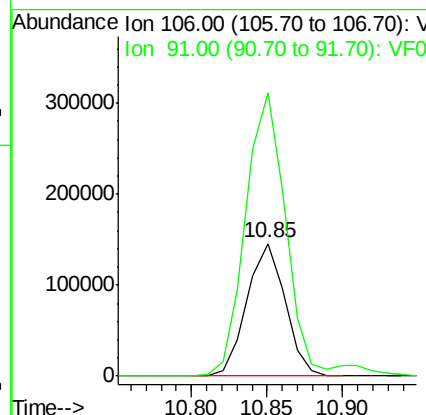
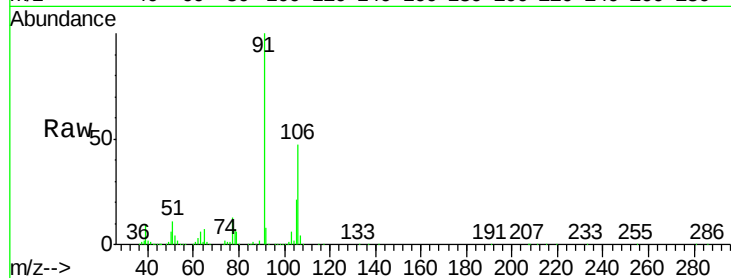
#69
o-Xylene
Concen: 53.101 ug/l
RT: 10.85 min Scan# 1047
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 257701
Ion Ratio Lower Upper
106 100
91 220.6 110.0 330.0

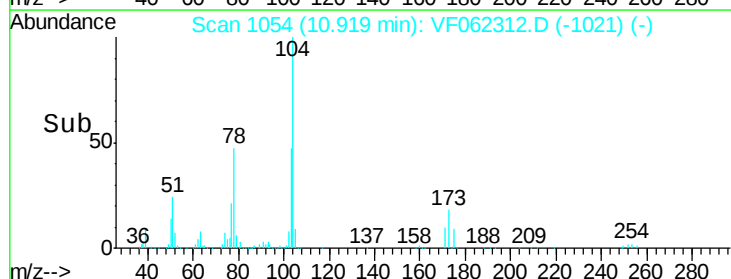
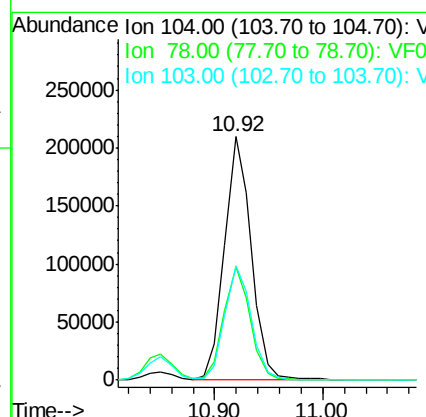
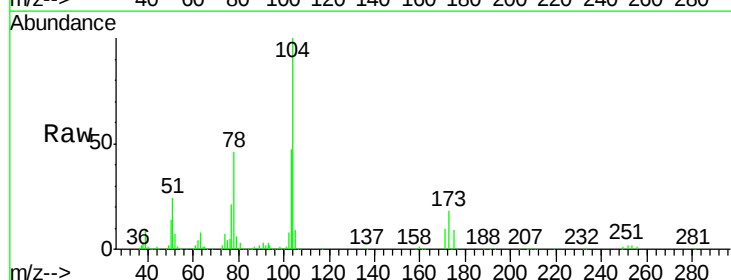
Manual Integrations
APPROVED

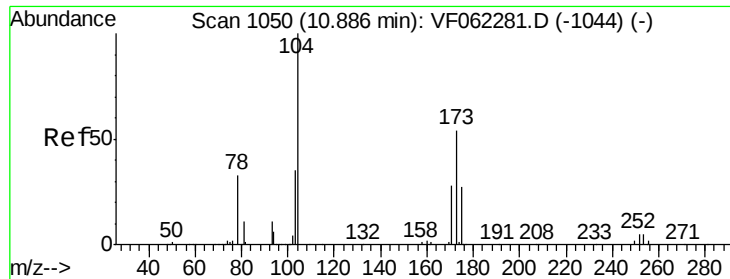
MMDadoda
4/29/2019 3:59:56 PM



#70
Styrene
Concen: 51.143 ug/l
RT: 10.92 min Scan# 1054
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion:104 Resp: 358792
Ion Ratio Lower Upper
104 100
78 46.6 35.9 53.9
103 46.7 37.5 56.3





#71

Bromoform

Concen: 55.710 ug/l

RT: 10.91 min Scan# 1053

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 99127

Ion Ratio Lower Upper

173 100

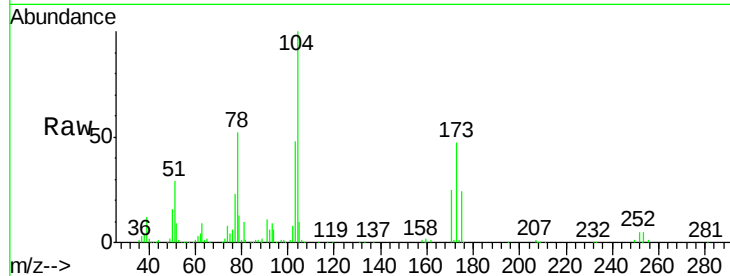
175 49.0 25.3 75.9

254 0.0 0.1 0.1#

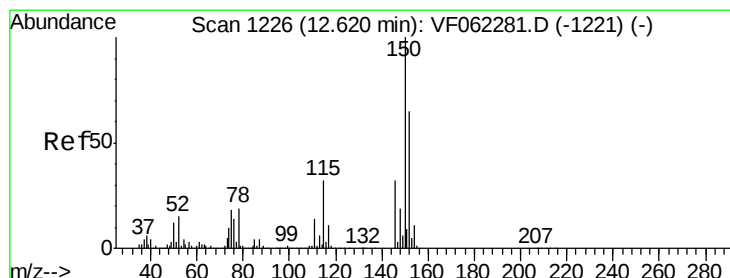
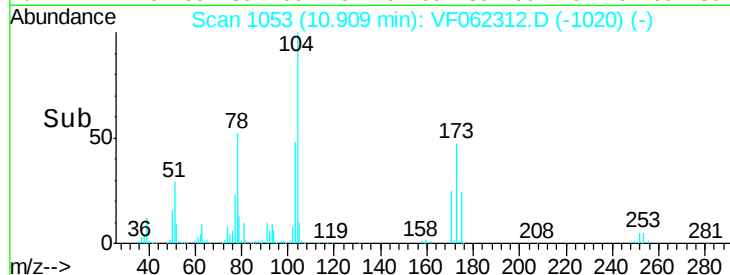
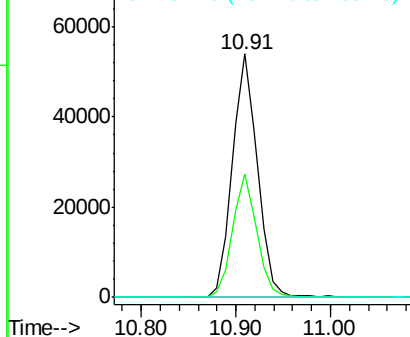
Manual Integrations
APPROVED

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4/29/2019 3:59:56 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

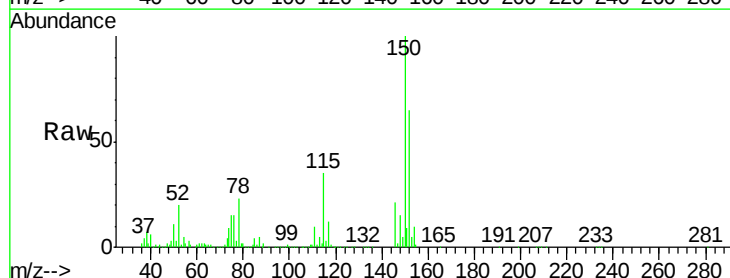
Tgt Ion:152 Resp: 203030

Ion Ratio Lower Upper

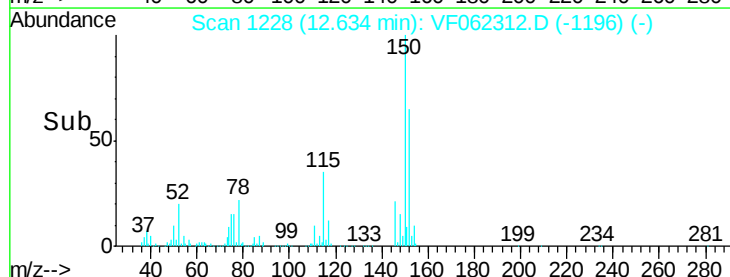
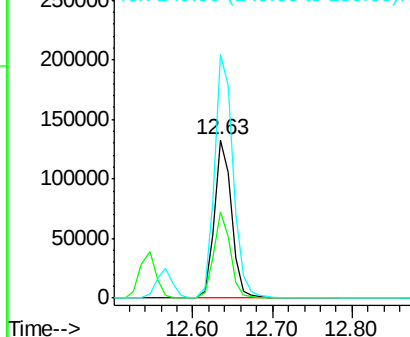
152 100

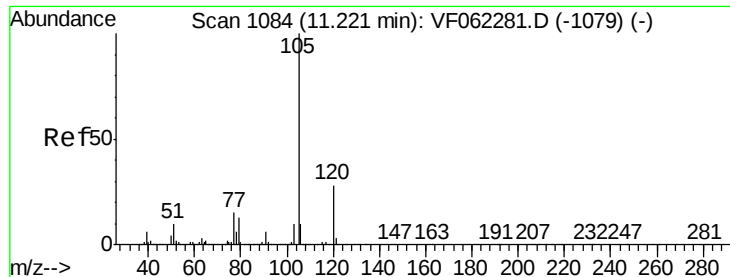
115 52.7 25.6 76.8

150 166.7 0.0 330.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 55.913 ug/l

RT: 11.24 min Scan# 1087

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 777782

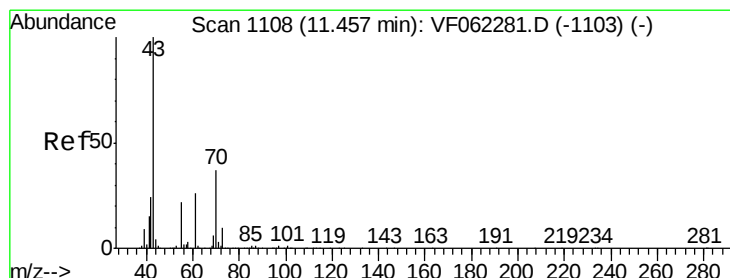
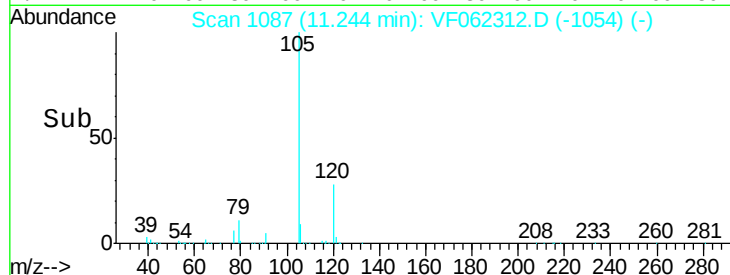
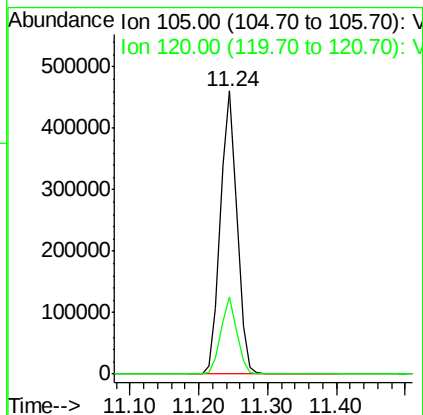
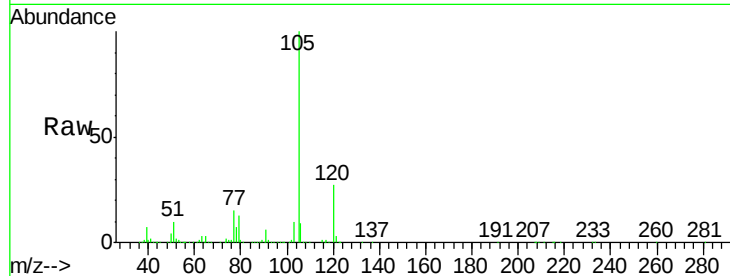
Ion Ratio Lower Upper

105 100

120 26.2 12.4 37.2

Manual Integrations
APPROVED

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4/29/2019 3:59:56 PM



#74

N-ethyl acetate

Concen: 50.570 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion: 43 Resp: 162084

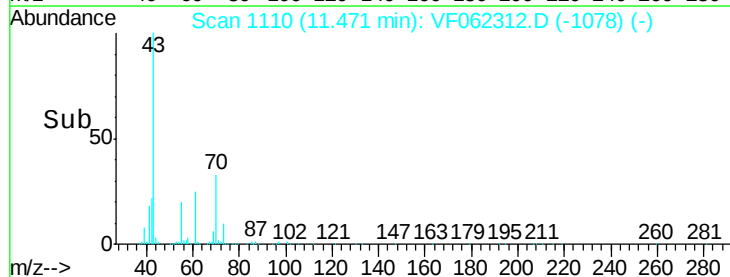
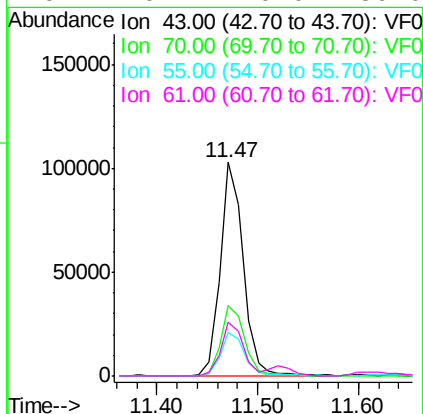
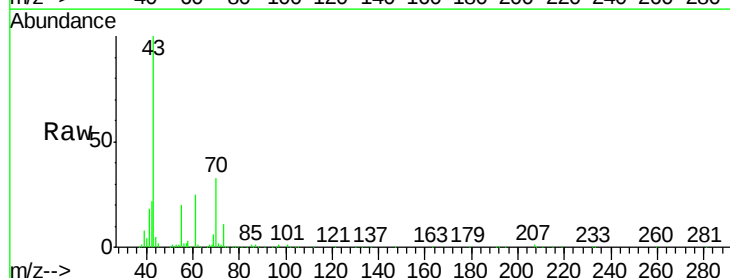
Ion Ratio Lower Upper

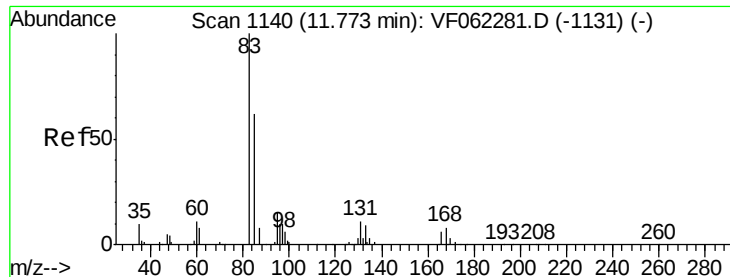
43 100

70 35.0 27.8 41.8

55 22.0 16.6 24.8

61 26.1 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 54.347 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

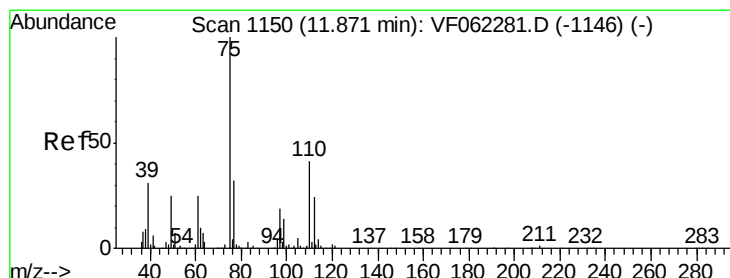
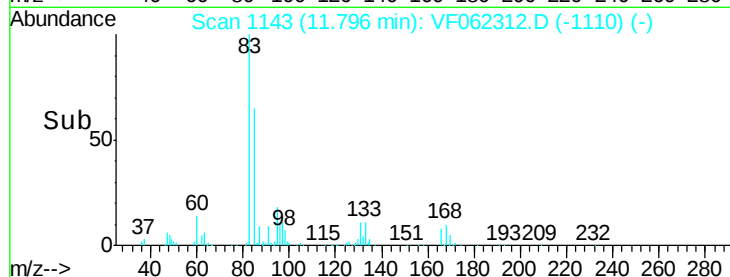
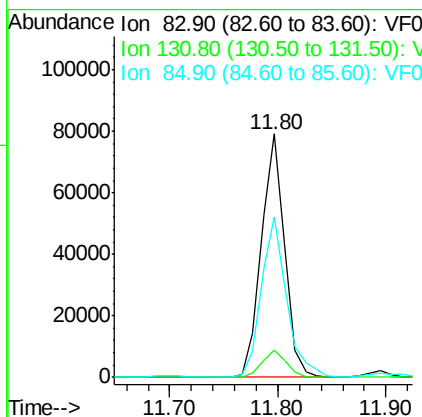
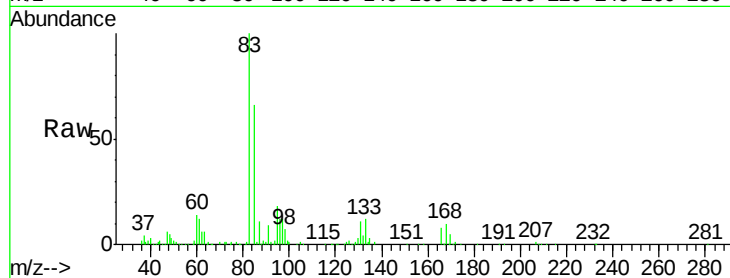
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	120108
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.5	16.5
85	71.7	34.5	103.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 55.102 ug/l

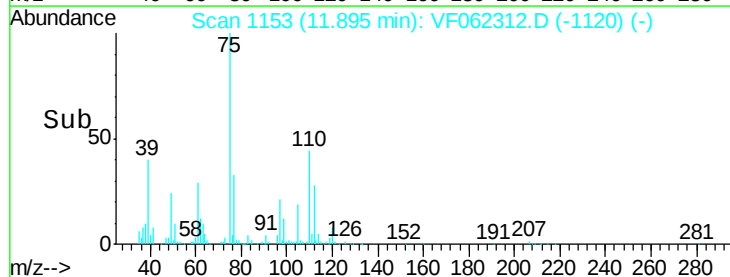
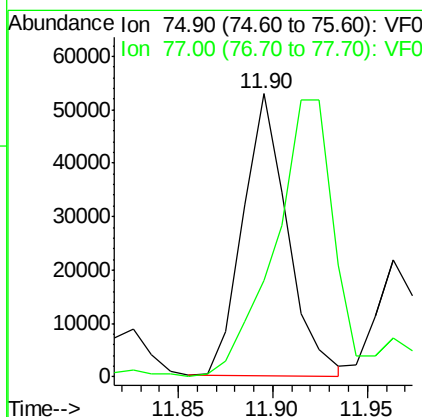
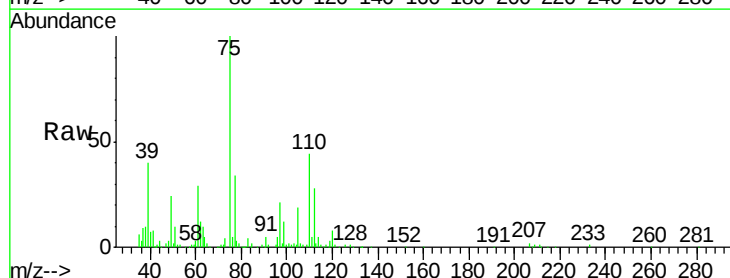
RT: 11.90 min Scan# 1153

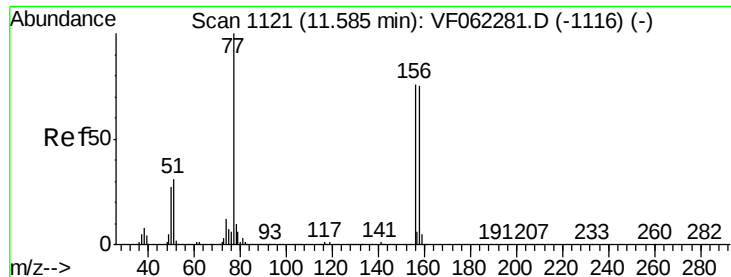
Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	75	Resp:	86400
Ion Ratio	Lower	Upper	
75	100		
77	130.6	0.0	0.0#





#77

Bromobenzene

Concen: 57.331 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

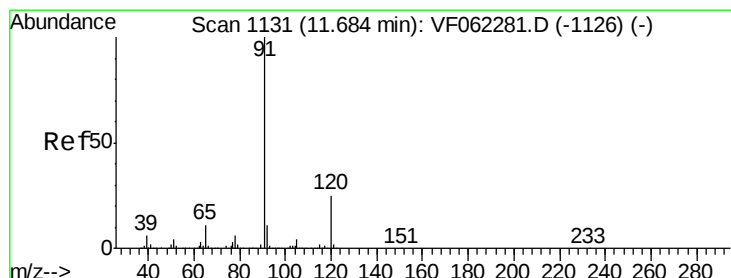
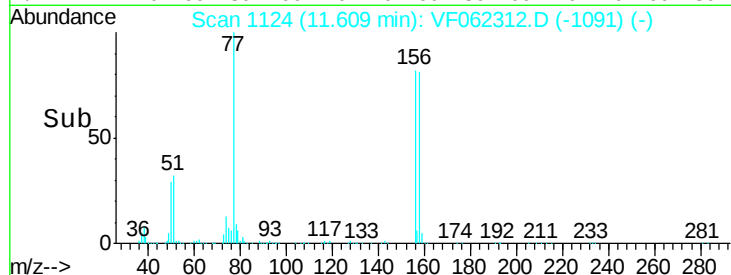
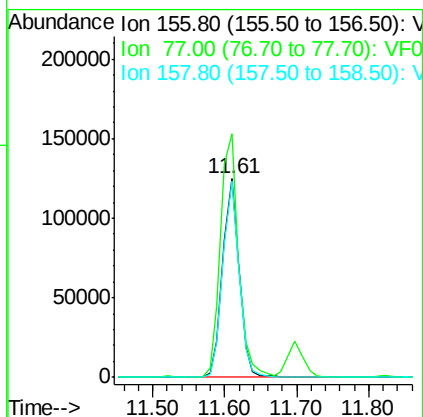
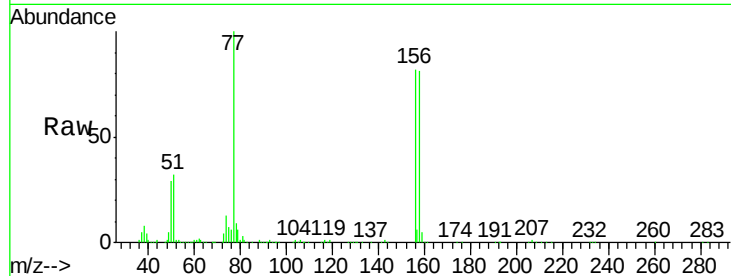
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	199369
Ion Ratio	Lower	Upper	
156	100		
77	132.0	67.3	201.9
158	97.8	49.5	148.5

Manual Integrations
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#78

n-propylbenzene

Concen: 53.181 ug/l

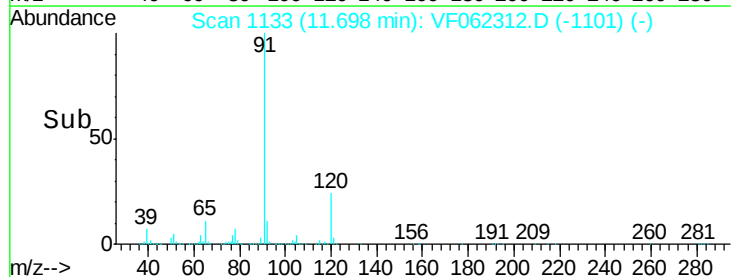
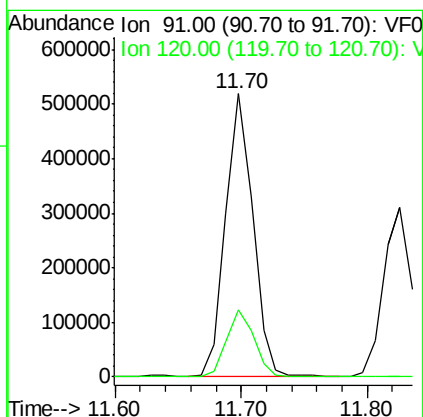
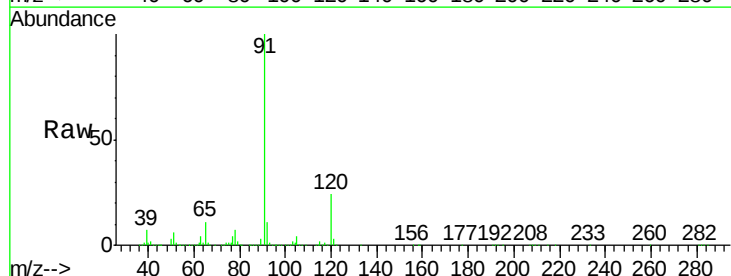
RT: 11.70 min Scan# 1133

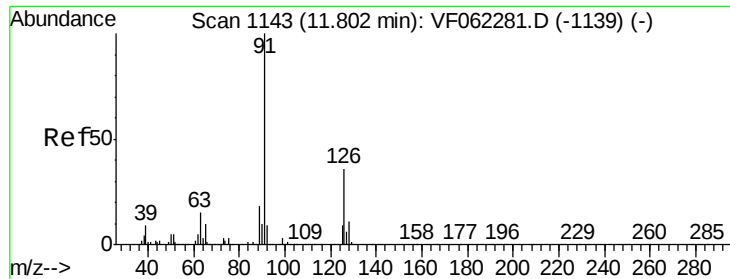
Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	91	Resp:	778402
Ion Ratio	Lower	Upper	
91	100		
120	23.8	11.8	35.4





#79

2-Chlorotoluene

Concen: 55.505 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 489352

Ion Ratio Lower Upper

91 100

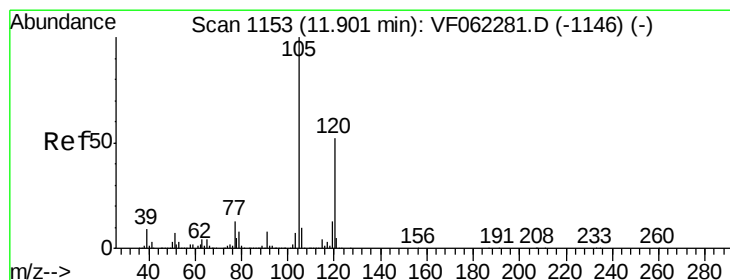
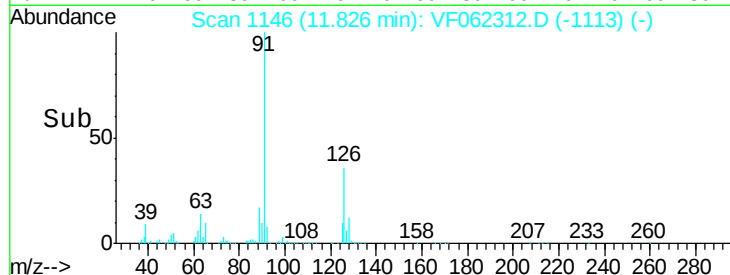
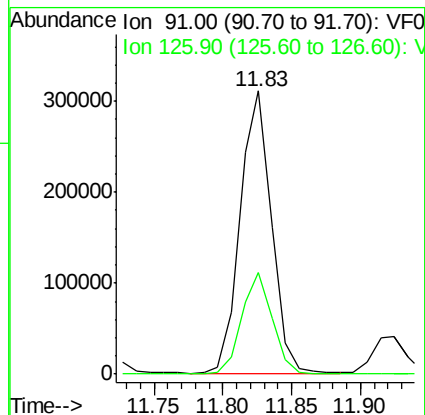
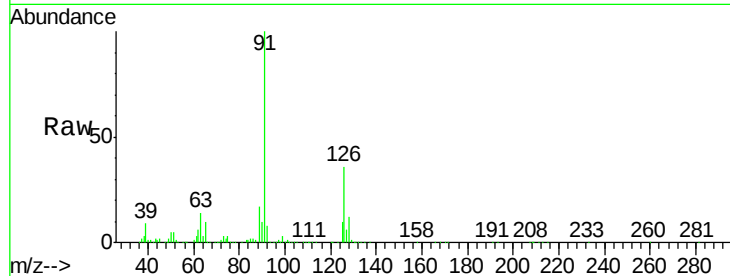
126 35.4 17.9 53.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 55.746 ug/l

RT: 11.92 min Scan# 1156

Delta R.T. 0.02 min

Lab File: VF062312.D

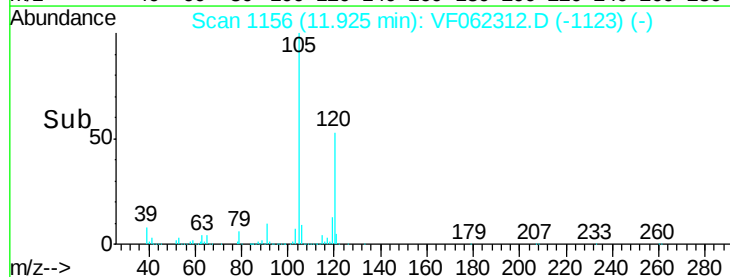
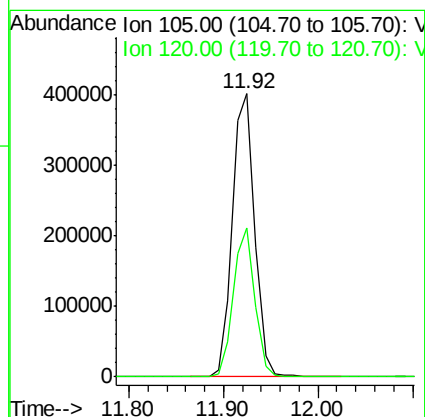
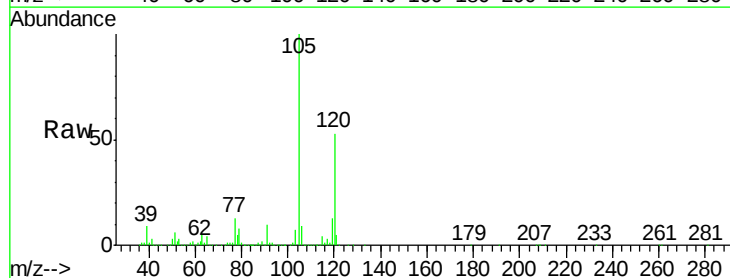
Acq: 26 Apr 2019 19:17

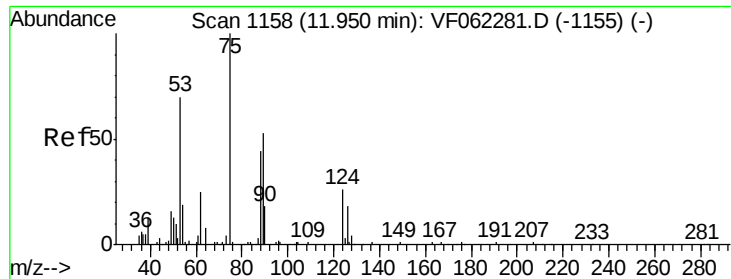
Tgt Ion: 105 Resp: 654644

Ion Ratio Lower Upper

105 100

120 50.9 25.8 77.4





#81

trans-1,4-Dichloro-2-butene

Concen: 49.628 ug/l m

RT: 11.96 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Instrument :

MSVOA_F

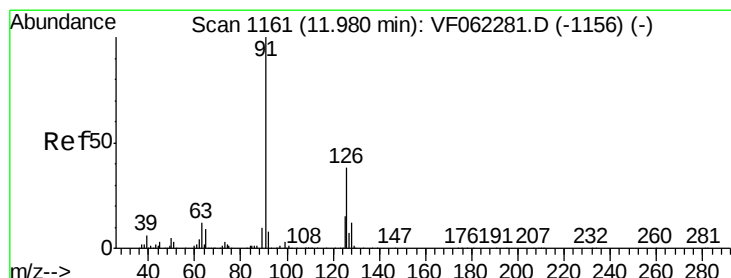
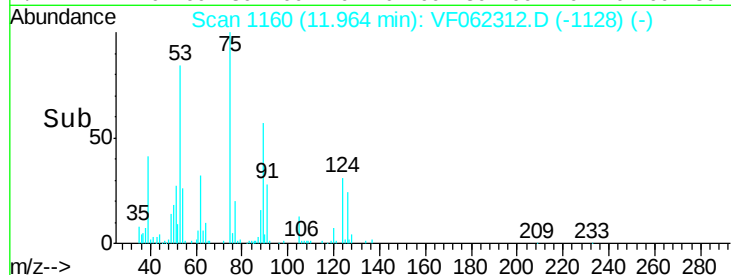
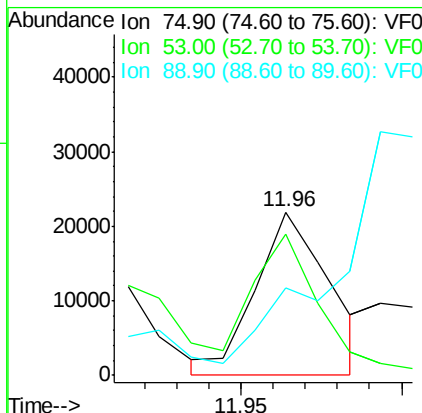
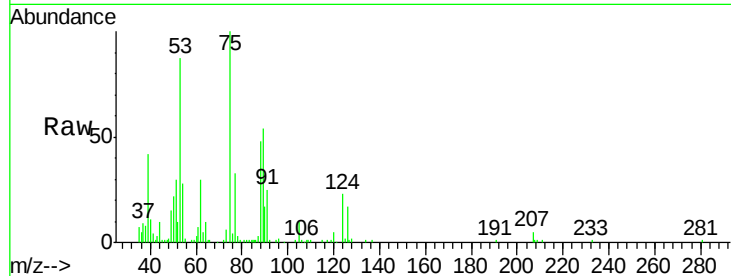
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	34784
Ion	Ratio	Lower	Upper
75	100		
53	80.9	67.1	100.7
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 55.019 ug/l

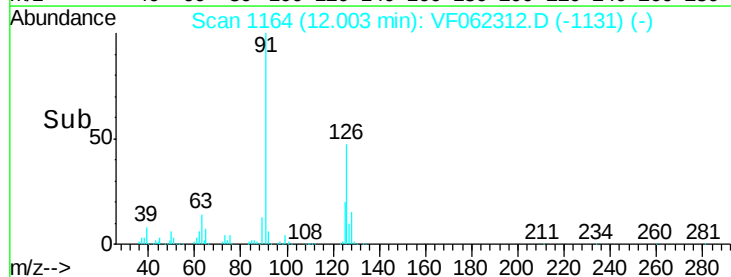
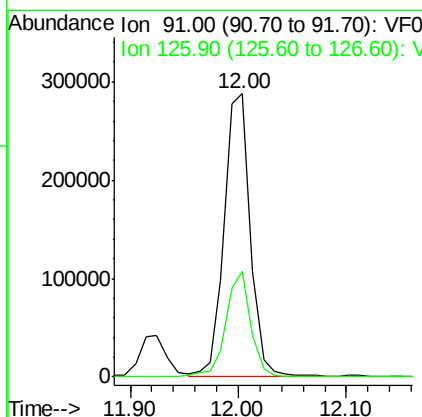
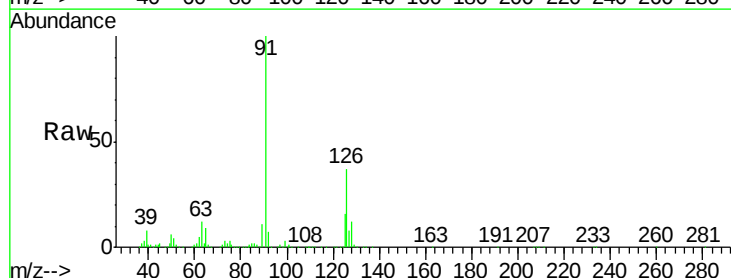
RT: 12.00 min Scan# 1164

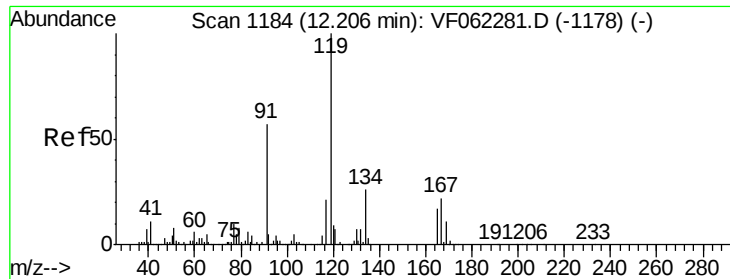
Delta R.T. 0.02 min

Lab File: VF062312.D

Acq: 26 Apr 2019 19:17

Tgt Ion:	91	Resp:	479979
Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.3	52.0





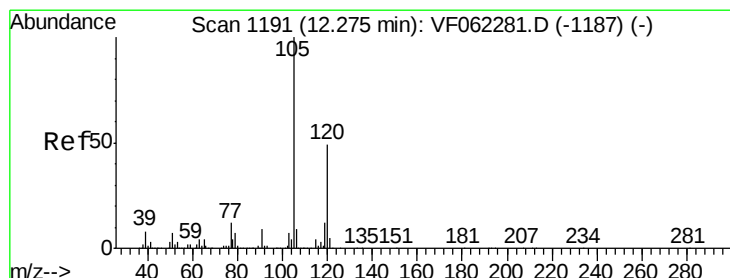
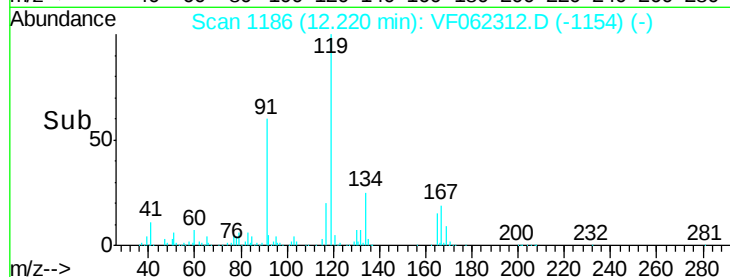
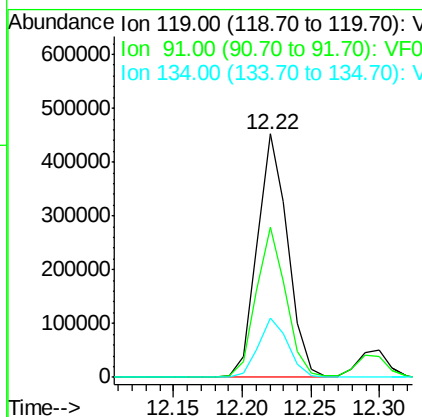
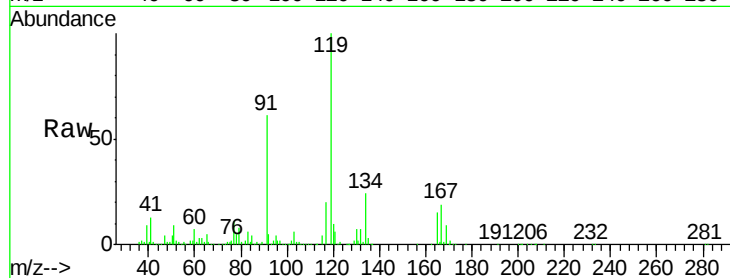
#83
tert-Butylbenzene
Concen: 57.832 ug/l
RT: 12.22 min Scan# 1186
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	696969		
91	59.9	29.4	88.2	
134	24.0	11.9	35.7	

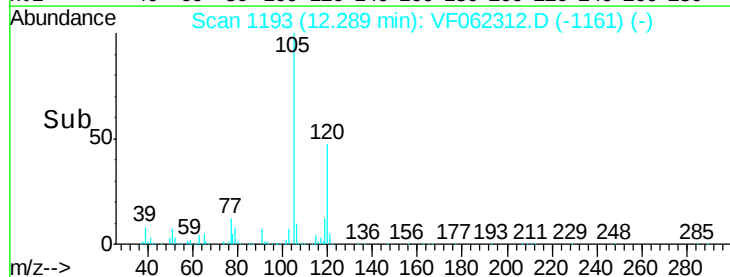
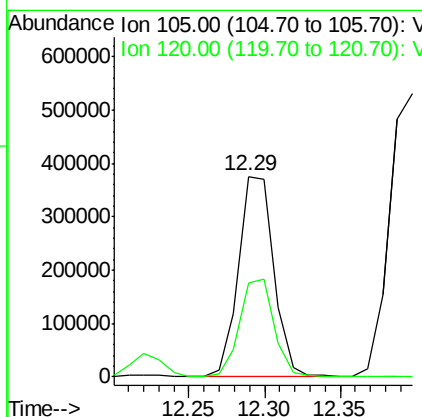
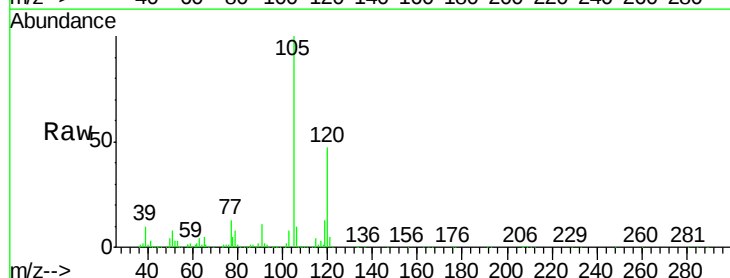
Manual Integrations
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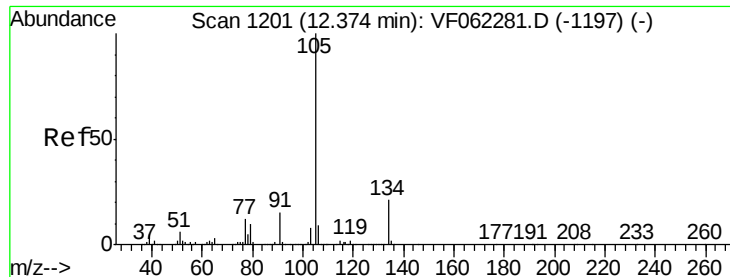
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 53.752 ug/l
RT: 12.29 min Scan# 1193
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	611350		
120	47.5	24.1	72.2	





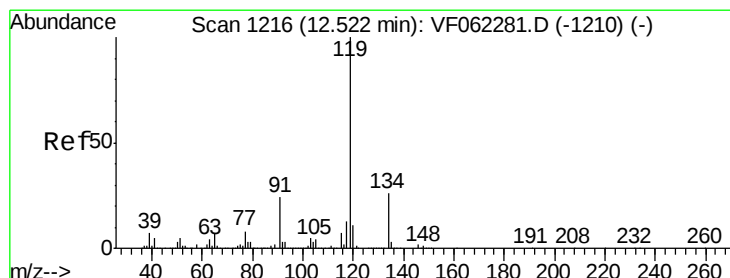
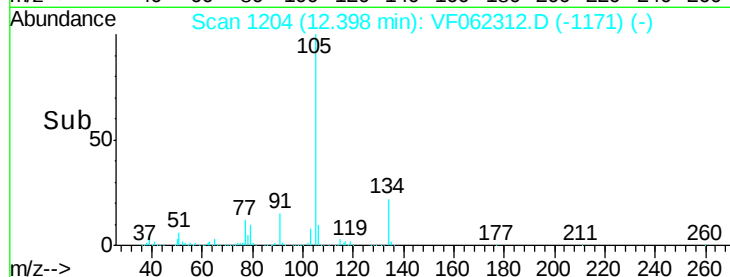
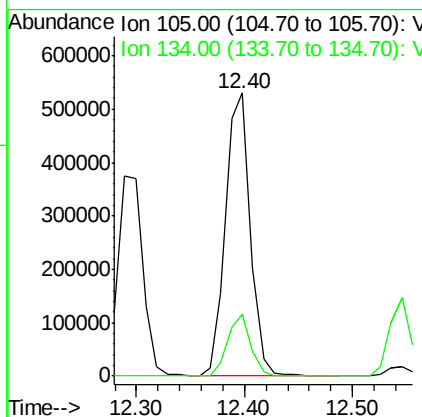
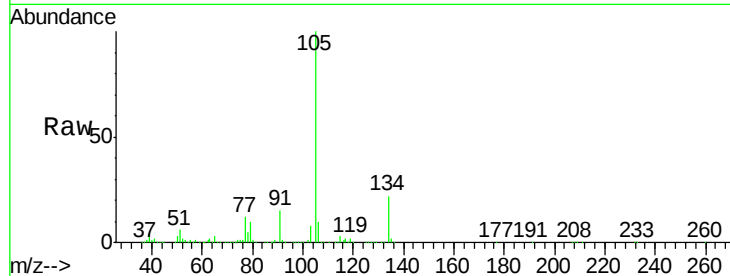
#85
 sec-Butylbenzene
 Concen: 56.424 ug/l
 RT: 12.40 min Scan# 1204
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

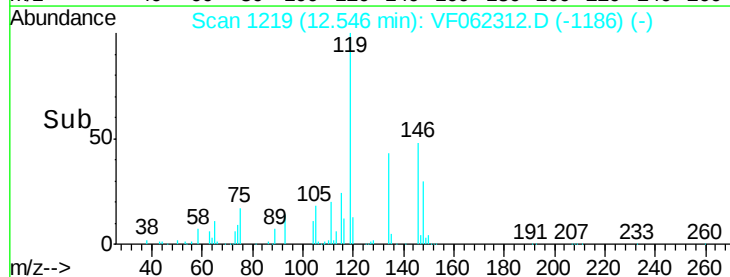
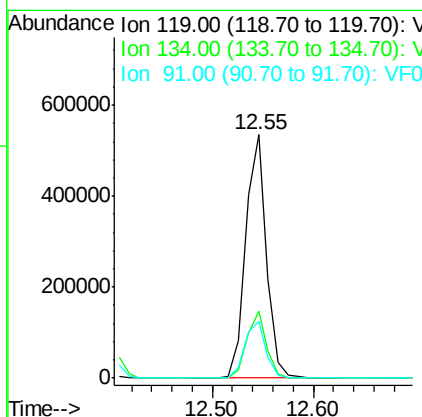
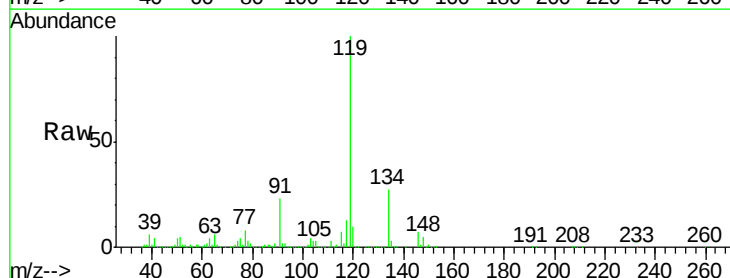
Manual Integrations
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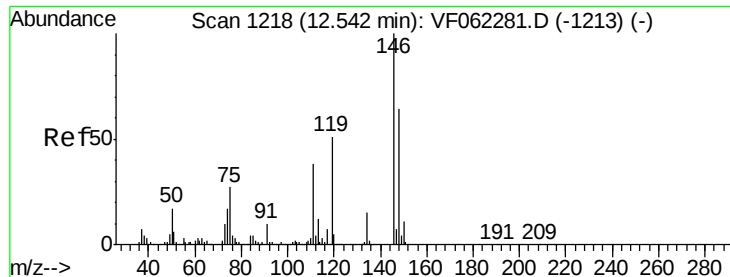
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#86
 p-Isopropyltoluene
 Concen: 56.517 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.5
91	23.7	11.6	34.7





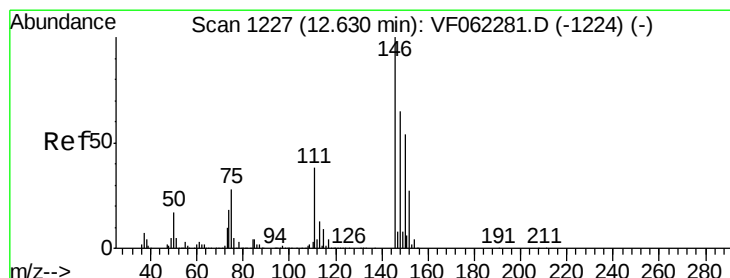
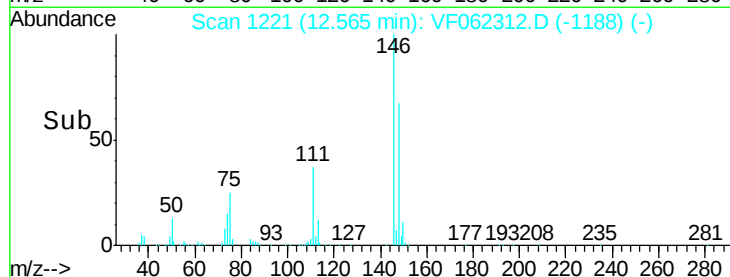
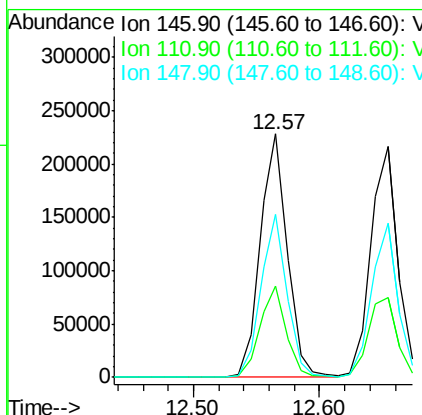
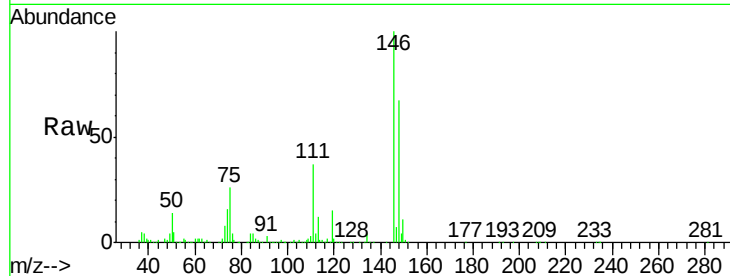
#87
 1,3-Dichlorobenzene
 Concen: 55.391 ug/l
 RT: 12.57 min Scan# 1221
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.6	55.8
148	65.1	32.8	98.4

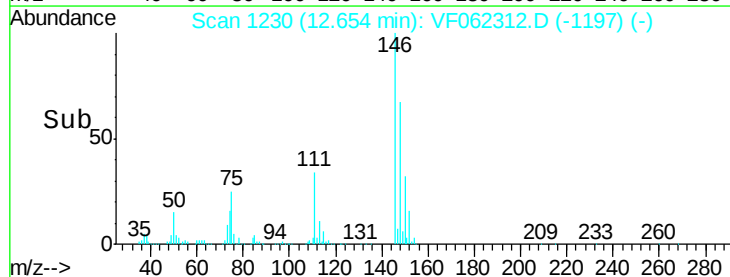
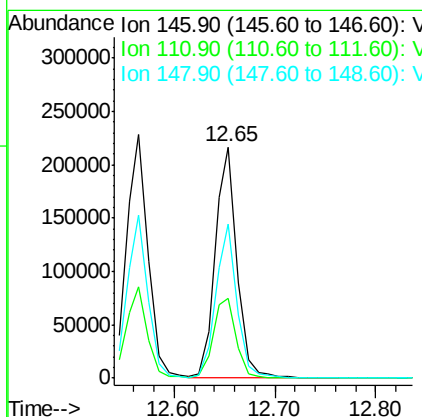
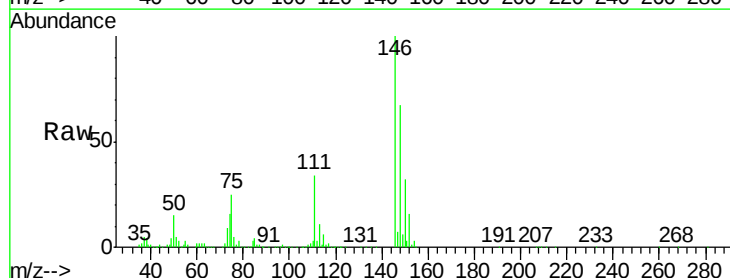
Manual Integrations
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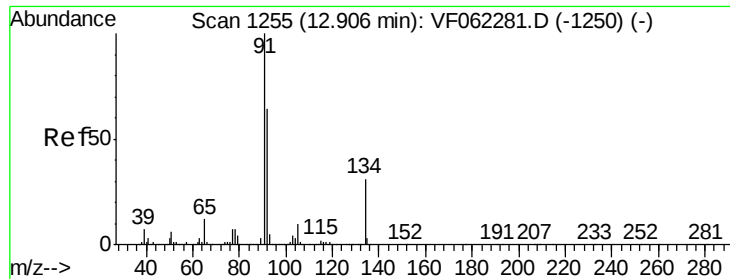
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#88
 1,4-Dichlorobenzene
 Concen: 55.711 ug/l
 RT: 12.65 min Scan# 1230
 Delta R.T. 0.02 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.6	56.0
148	65.1	32.5	97.5





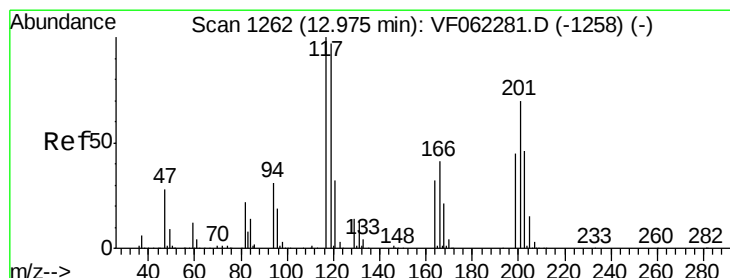
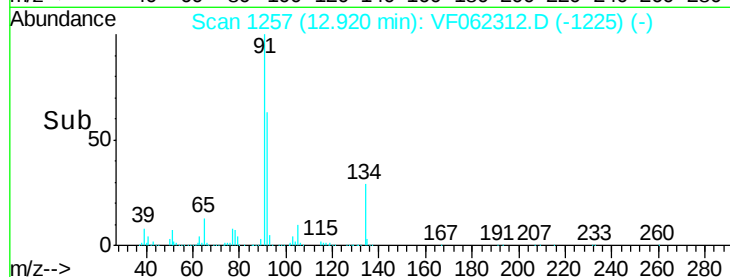
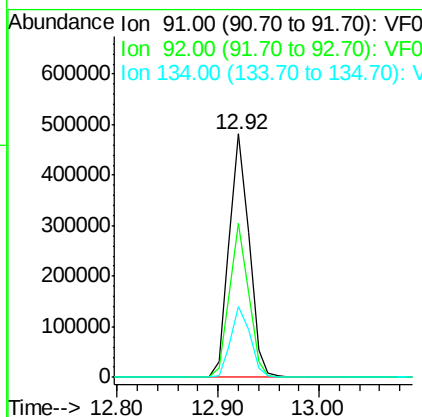
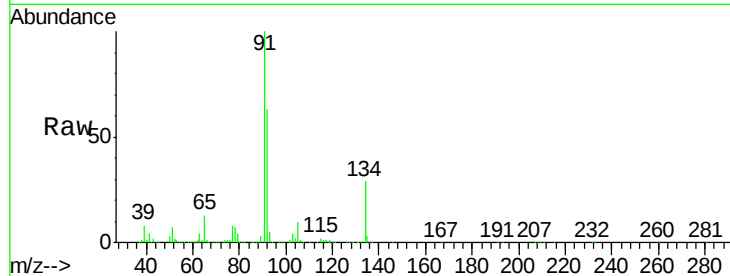
#89
n-Butylbenzene
Concen: 54.001 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.9	31.1	93.3
134	28.6	14.4	43.4

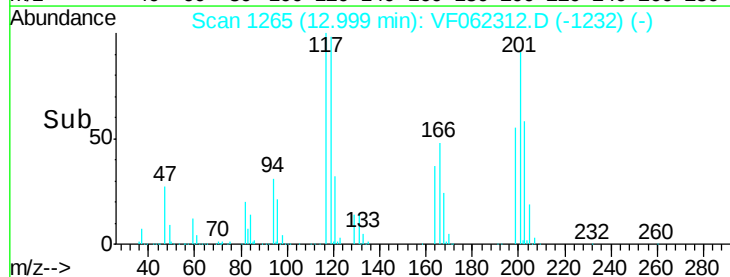
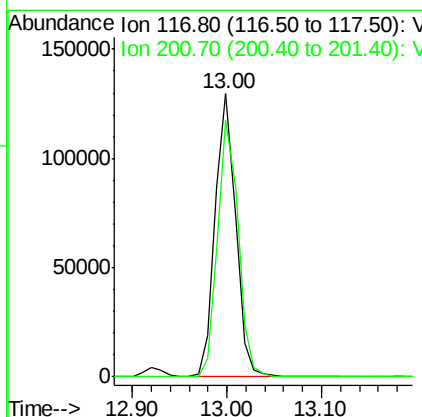
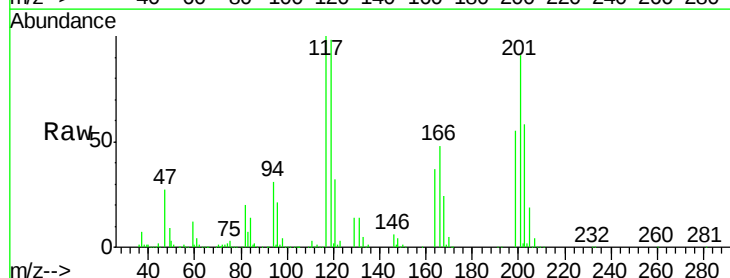
Manual Integrations
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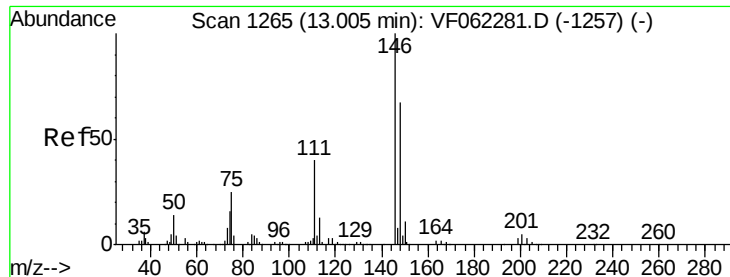
MMDadoda
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#90
Hexachloroethane
Concen: 58.065 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.8	42.9	128.5





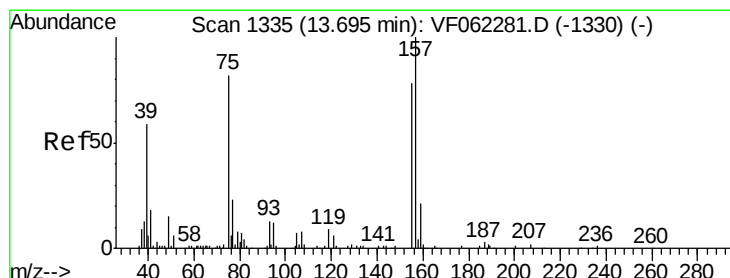
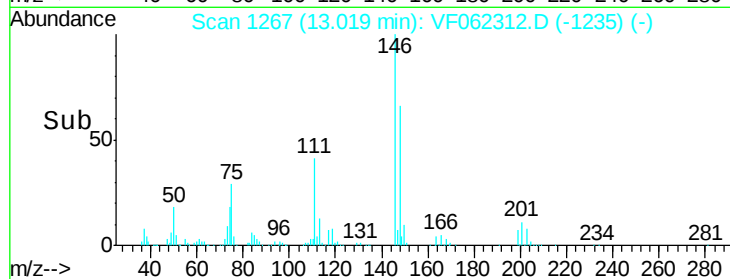
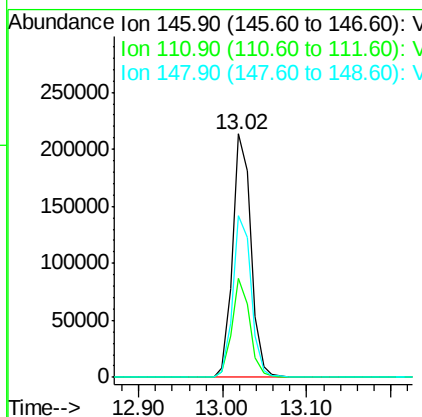
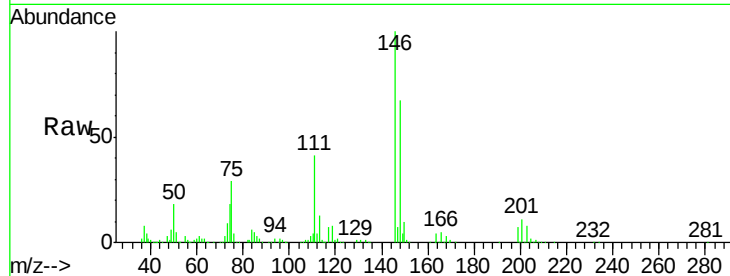
#91
 1,2-Dichlorobenzene
 Concen: 55.300 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
146	100	326580		
111	39.2	20.0	59.9	
148	65.8	33.1	99.5	

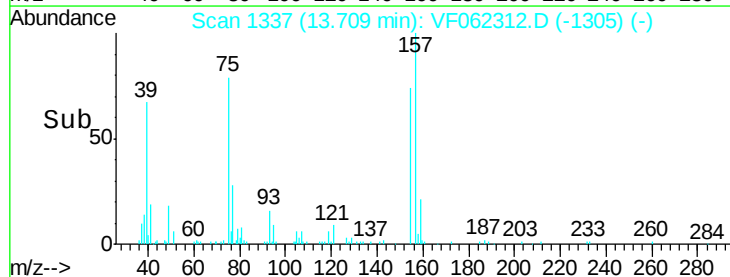
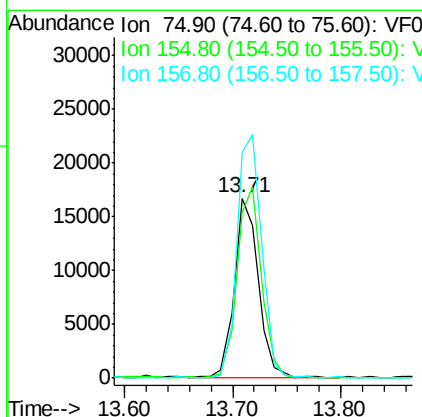
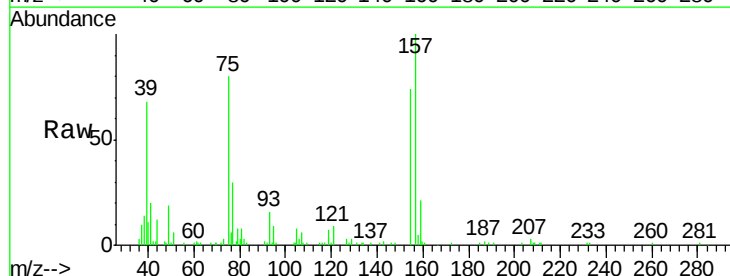
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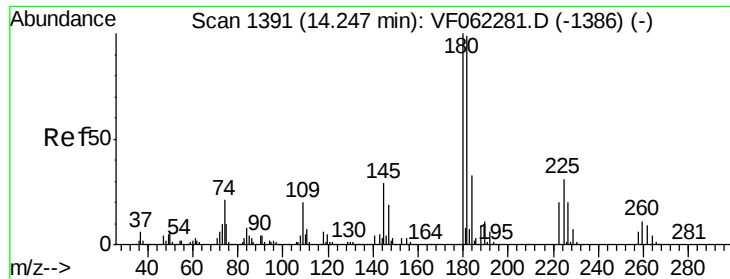
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.561 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	26109		
155	107.4	51.7	155.2	
157	137.8	64.5	193.5	





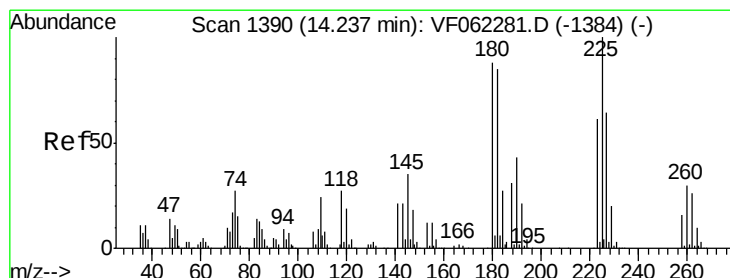
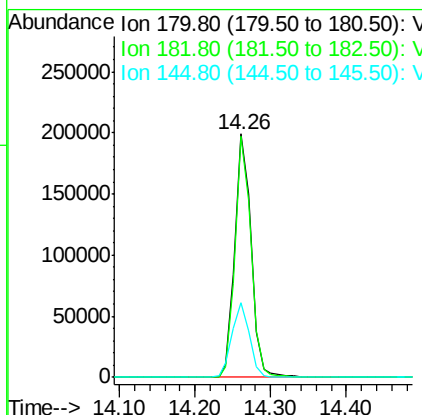
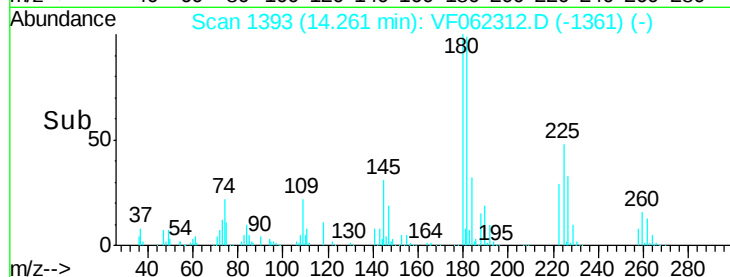
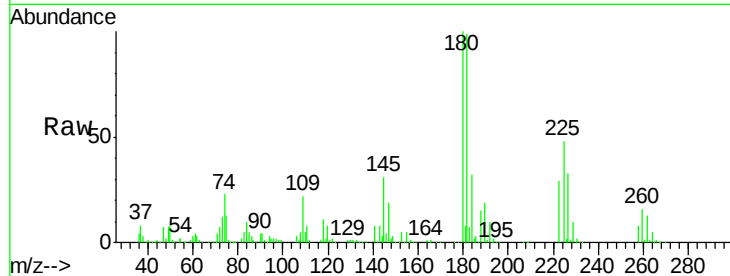
#93
 1,2,4-Trichlorobenzene
 Concen: 56.798 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	294677		
182	97.3	48.5	145.6	
145	33.2	16.7	50.1	

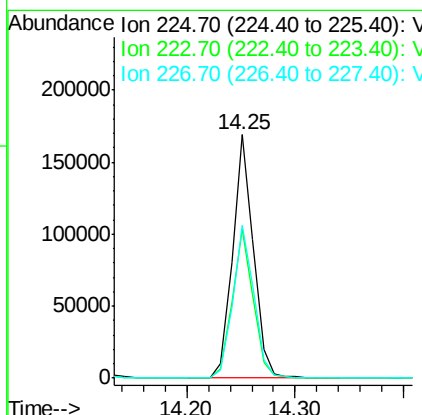
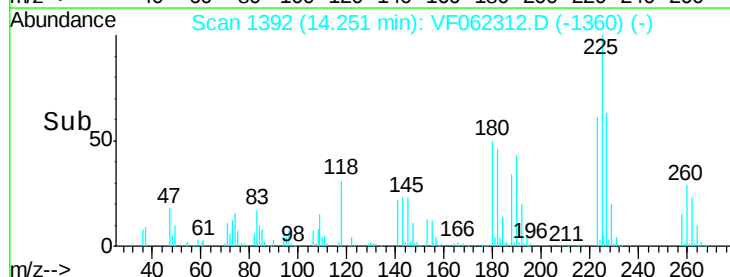
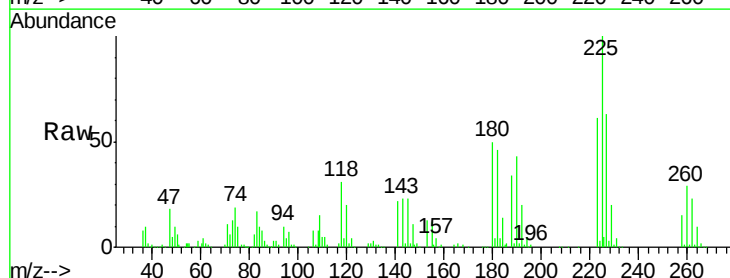
Manual Integrations
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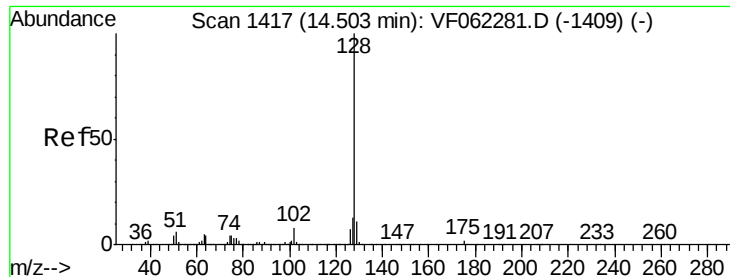
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#94
 Hexachlorobutadiene
 Concen: 60.517 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VF062312.D
 Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	225799		
223	61.8	30.8	92.3	
227	63.7	31.9	95.5	





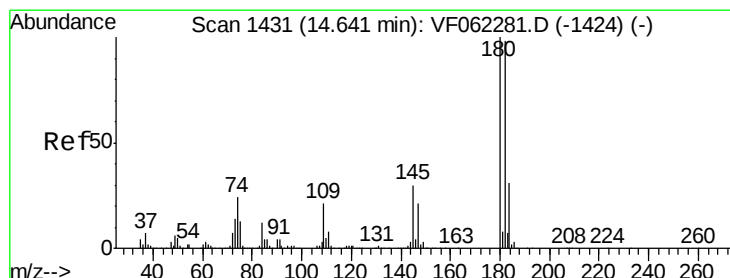
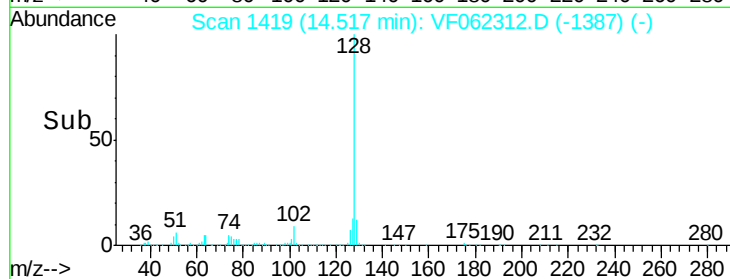
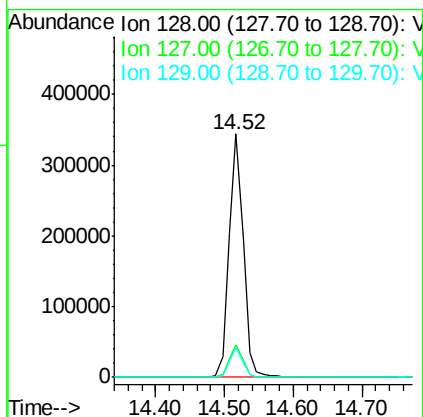
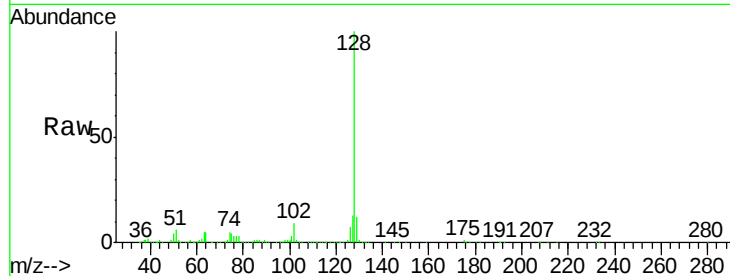
#95
Naphthalene
Concen: 61.083 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.01 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	490968		
127	12.9		10.2	15.4
129	11.3		8.9	13.3

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 60.578 ug/l
RT: 14.66 min Scan# 1434
Delta R.T. 0.02 min
Lab File: VF062312.D
Acq: 26 Apr 2019 19:17

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	297243		
182	97.3		49.0	147.2
145	29.8		14.5	43.5

