

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010819\
 Data File : VF061290.D
 Acq On : 8 Jan 2019 16:55
 Operator : VA/AP
 Sample : VSTDIC150
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 1/9/2019 11:45:10 AM

Quant Time: Jan 09 06:27:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 15:56:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	186602	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	329449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	310494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	167319	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	301360	127.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	254.46%	
35) Dibromofluoromethane	4.13	113	349861	138.03	ug/l	0.01
Spiked Amount 50.000			Recovery	=	276.06%	
50) Toluene-d8	7.57	98	997508	132.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	265.24%	
62) 4-Bromofluorobenzene	11.42	95	434889	130.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	260.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	487236	135.990	ug/l	93
3) Chloromethane	1.09	50	410900	149.702	ug/l	97
4) Vinyl Chloride	1.14	62	369605	155.462	ug/l	99
5) Bromomethane	1.30	94	251346	154.633	ug/l	91
6) Chloroethane	1.38	64	173045	160.606	ug/l	95
7) Trichlorofluoromethane	1.48	101	649276	151.759	ug/l	98
8) Diethyl Ether	1.63	74	96307	157.787	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.82	101	318806	149.148	ug/l	98
10) Methyl Iodide	1.85	142	524998m	152.016	ug/l	
11) Tert butyl alcohol	2.57	59	57293	573.214	ug/l #	87
12) 1,1-Dichloroethene	1.76	96	264256	147.072	ug/l	89
13) Acrolein	2.01	56	58901	629.595	ug/l	96
14) Allyl chloride	2.11	41	491903	198.027	ug/l	96
15) Acrylonitrile	2.96	53	208908	781.811	ug/l	93
16) Acetone	2.25	43	301779	636.165	ug/l	93
17) Carbon Disulfide	1.77	76	848477	155.079	ug/l	98
18) Methyl Acetate	2.35	43	127399	121.361	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	521190	139.158	ug/l	100
20) Methylene Chloride	2.19	84	260667	118.402	ug/l	96
21) trans-1,2-Dichloroethene	2.31	96	295732	156.490	ug/l	96
22) Diisopropyl ether	2.81	45	949168	151.963	ug/l	98
23) Vinyl Acetate	3.19	43	1572912	549.882	ug/l	98
24) 1,1-Dichloroethane	2.88	63	573346	156.565	ug/l	99
25) 2-Butanone	4.35	43	498373	559.667	ug/l	99
26) 2,2-Dichloropropane	3.61	77	355202	168.434	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	398265	143.419	ug/l	95
28) Bromochloromethane	3.73	49	232793	134.284	ug/l	94
29) Tetrahydrofuran	4.08	42	217872	629.278	ug/l	98
30) Chloroform	3.87	83	688607	134.432	ug/l	99
31) Cyclohexane	3.71	56	577406	148.761	ug/l	99
32) 1,1,1-Trichloroethane	4.11	97	586103	176.159	ug/l	100
36) 1,1-Dichloropropene	4.30	75	531379	136.951	ug/l	99
37) Ethyl Acetate	4.12	43	196770	127.014	ug/l #	85
38) Carbon Tetrachloride	4.01	117	563247m	181.320	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	617845	148.965	ug/l	99
40) Benzene	4.64	78	1157470	131.443	ug/l	99
41) Methacrylonitrile	4.76	41	111215	126.251	ug/l	94
42) 1,2-Dichloroethane	4.96	62	404867	137.417	ug/l	99
43) Isopropyl Acetate	6.97	43	263628	127.535	ug/l #	97
44) Trichloroethene	5.52	130	340518	124.230	ug/l	93
45) 1,2-Dichloropropane	6.25	63	309195	137.532	ug/l	99
46) Dibromomethane	6.10	93	206586	139.649	ug/l	95
47) Bromodichloromethane	6.40	83	503590	133.732	ug/l	97
48) Methyl methacrylate	6.72	41	172906	129.177	ug/l	94
49) 1,4-Dioxane	6.72	88	21893	2360.551	ug/l #	89
51) 4-Methyl-2-Pentanone	8.27	43	895591	623.808	ug/l	99
52) Toluene	7.64	92	758309	131.884	ug/l	93
53) t-1,3-Dichloropropene	8.29	75	389545	126.897	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	529542	135.724	ug/l	97
55) 1,1,2-Trichloroethane	8.51	97	229257	138.648	ug/l	98
56) Ethyl methacrylate	8.63	69	250931	137.314	ug/l	95
57) 1,3-Dichloropropane	8.86	76	400820	128.953	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.31	63	54196	244.215	ug/l #	90
59) 2-Hexanone	9.51	43	628078	604.285	ug/l	98
60) Dibromochloromethane	8.73	129	328109	139.697	ug/l	99
61) 1,2-Dibromoethane	9.00	107	242371	135.816	ug/l	100
64) Tetrachloroethene	8.16	164	310244	130.383	ug/l	98
65) Chlorobenzene	9.81	112	852803	135.073	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.95	131	338095	130.396	ug/l	99
67) Ethyl Benzene	9.91	91	1476529	127.218	ug/l	91
68) m/p-Xylenes	10.15	106	1042292	246.078	ug/l	86
69) o-Xylene	10.73	106	615959	134.431	ug/l	90
70) Styrene	10.80	104	805044	127.631	ug/l	98
71) Bromoform	10.79	173	157227	130.248	ug/l #	98
73) Isopropylbenzene	11.13	105	1643611	115.644	ug/l	96
74) N-amyl acetate	11.38	43	389019	108.414	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	301123	121.296	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	214482	116.382	ug/l	97
77) Bromobenzene	11.51	156	358625	120.197	ug/l	94
78) n-propylbenzene	11.61	91	1852575	109.355	ug/l	94
79) 2-Chlorotoluene	11.73	91	1135841	116.094	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	1307723	113.973	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.88	75	105711m	125.152	ug/l	
82) 4-Chlorotoluene	11.91	91	1150406	115.990	ug/l	97
83) tert-Butylbenzene	12.14	119	1336933	113.009	ug/l	96
84) 1,2,4-Trimethylbenzene	12.22	105	1366302	119.614	ug/l	94
85) sec-Butylbenzene	12.32	105	1836183	114.423	ug/l	93
86) p-Isopropyltoluene	12.46	119	1471451	111.286	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	659089	114.478	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	697738	124.209	ug/l	97
89) n-Butylbenzene	12.85	91	1478279	108.817	ug/l	93
90) Hexachloroethane	12.93	117	403716	123.760	ug/l	86
91) 1,2-Dichlorobenzene	12.95	146	661936	119.017	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	59967	134.417	ug/l	79

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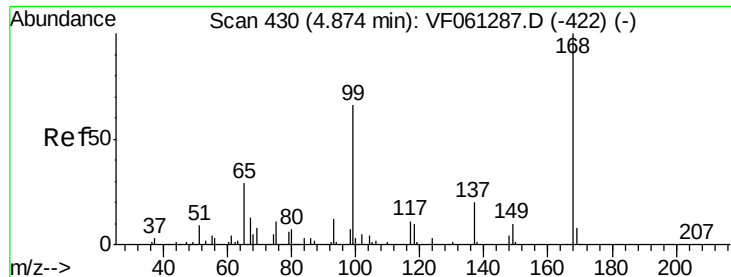
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	461871	118.596	ug/l	97
94) Hexachlorobutadiene	14.20	225	308057	124.151	ug/l	96
95) Naphthalene	14.47	128	994752	136.650	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	442416	122.521	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 186602

Ion Ratio Lower Upper

168 100

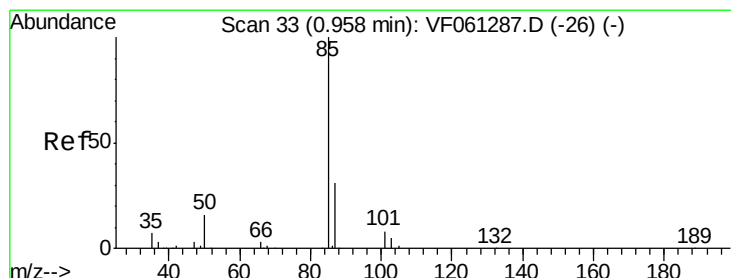
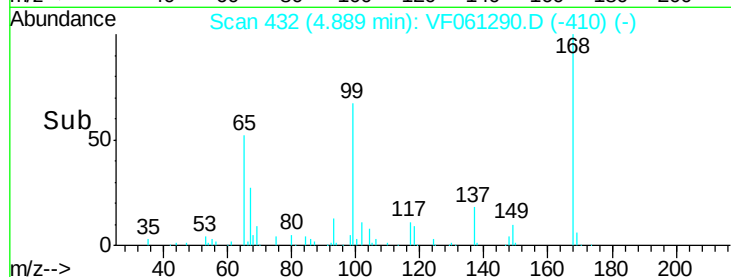
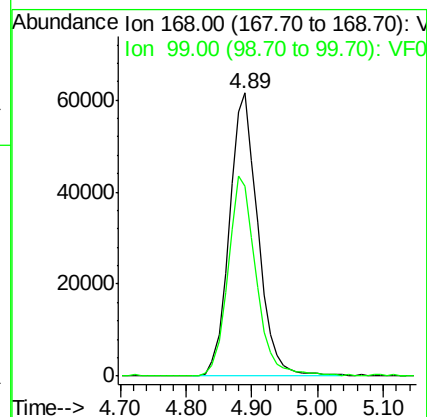
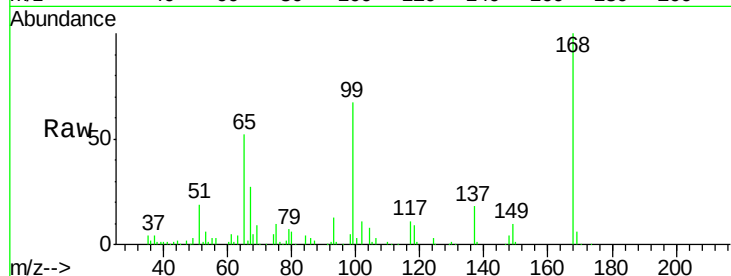
99 67.2 52.7 79.1

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#2

Dichlorodifluoromethane

Concen: 135.990 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061290.D

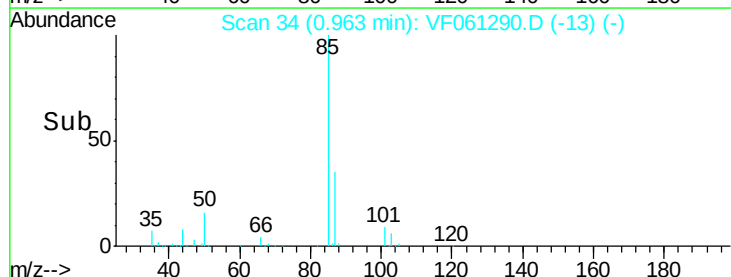
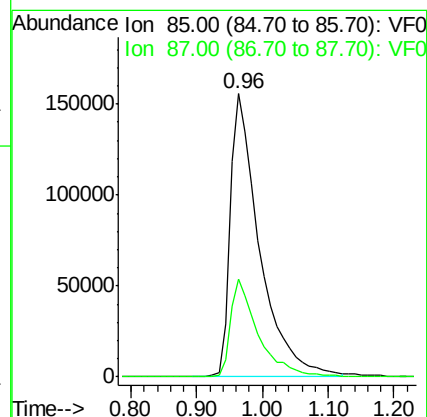
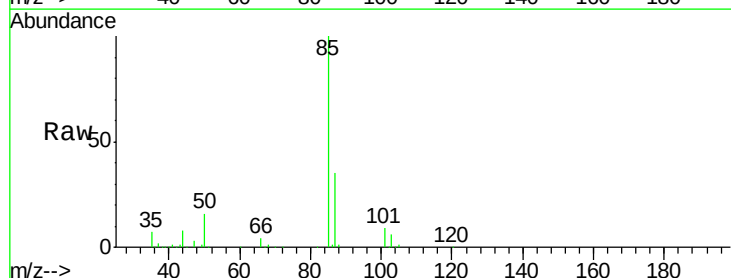
Acq: 8 Jan 2019 16:55

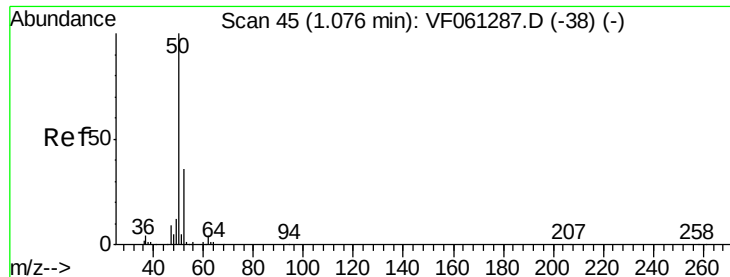
Tgt Ion: 85 Resp: 487236

Ion Ratio Lower Upper

85 100

87 34.7 15.4 46.2





#3

Chloromethane

Concen: 149.702 ug/l

RT: 1.09 min Scan# 47

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 410900

Ion Ratio Lower Upper

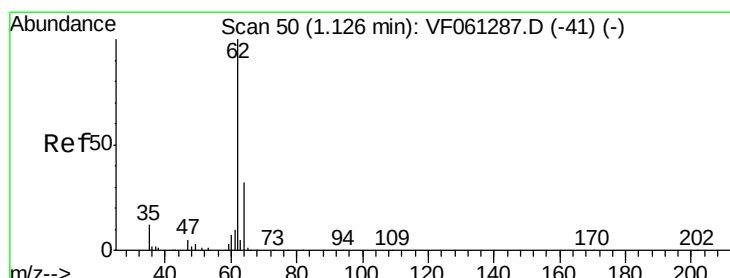
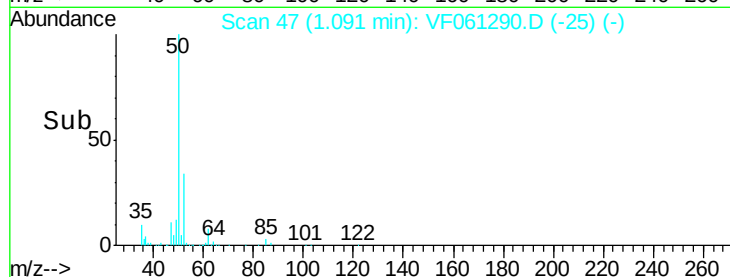
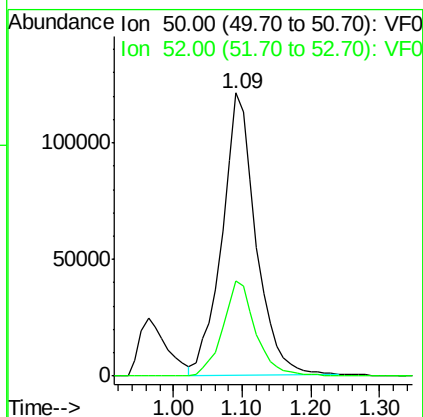
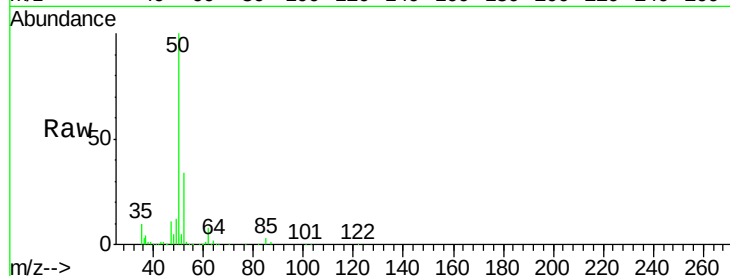
50 100

52 33.6 28.2 42.2

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#4

Vinyl Chloride

Concen: 155.462 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061290.D

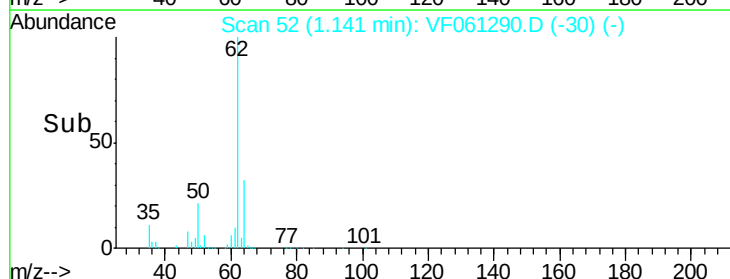
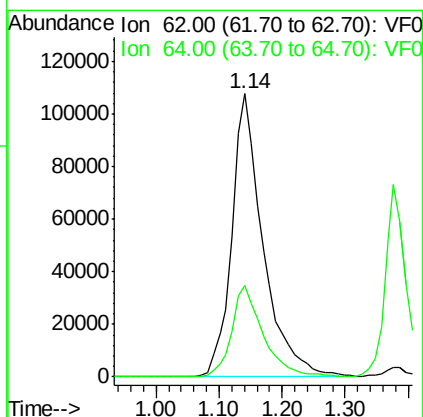
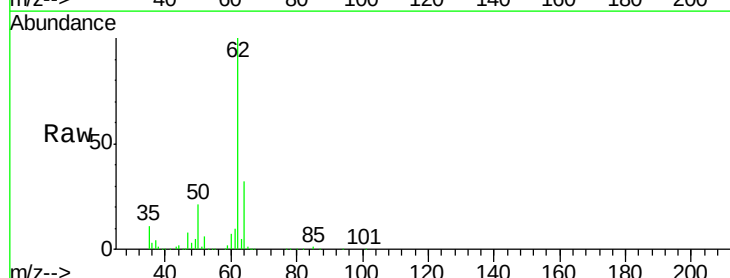
Acq: 8 Jan 2019 16:55

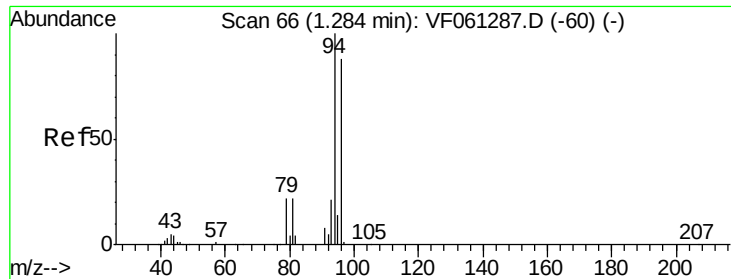
Tgt Ion: 62 Resp: 369605

Ion Ratio Lower Upper

62 100

64 32.3 25.4 38.0





#5

Bromomethane

Concen: 154.633 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 251346

Ion Ratio Lower Upper

94 100

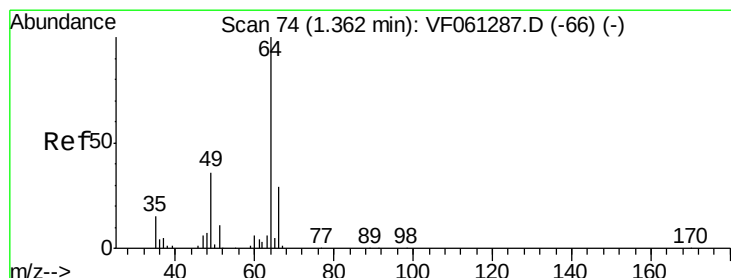
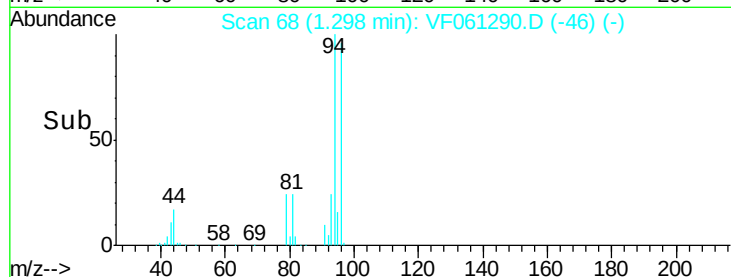
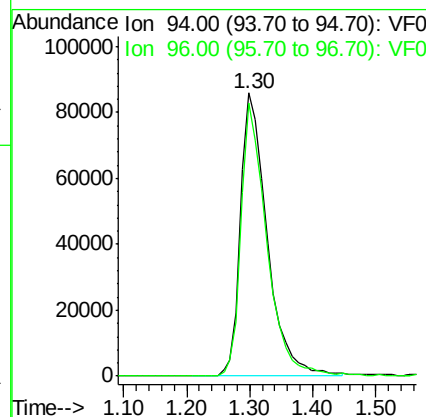
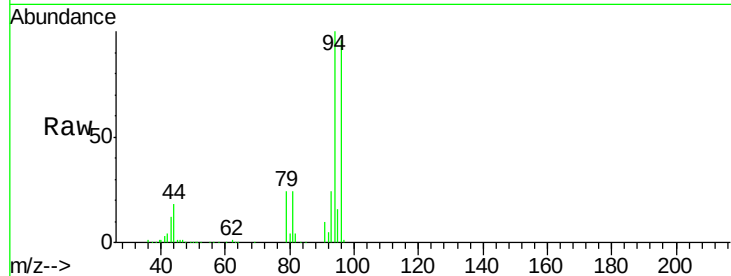
96 96.3 70.2 105.4

Manual Integrations

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#6

Chloroethane

Concen: 160.606 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.01 min

Lab File: VF061290.D

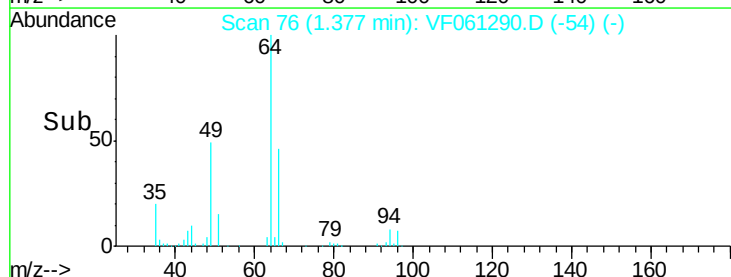
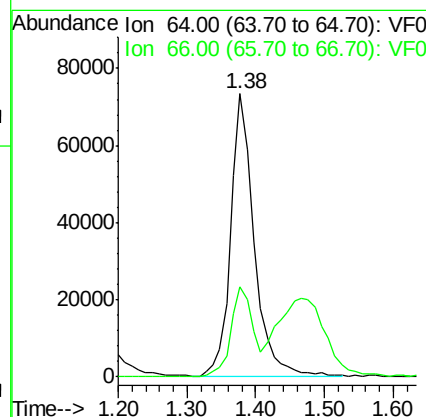
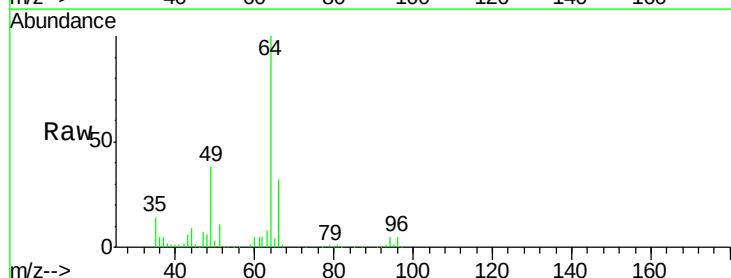
Acq: 8 Jan 2019 16:55

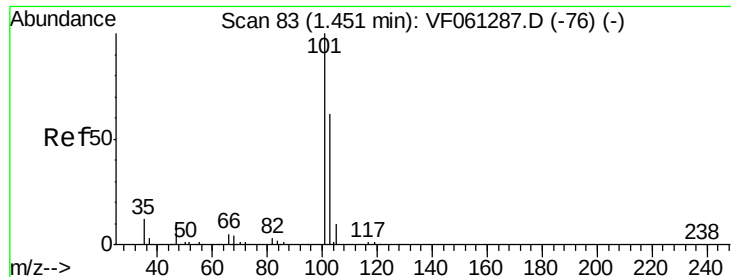
Tgt Ion: 64 Resp: 173045

Ion Ratio Lower Upper

64 100

66 31.7 23.4 35.0





#7

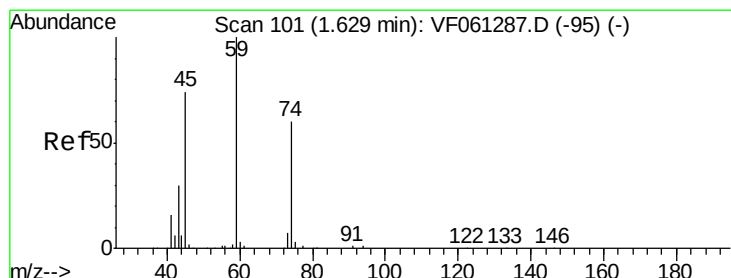
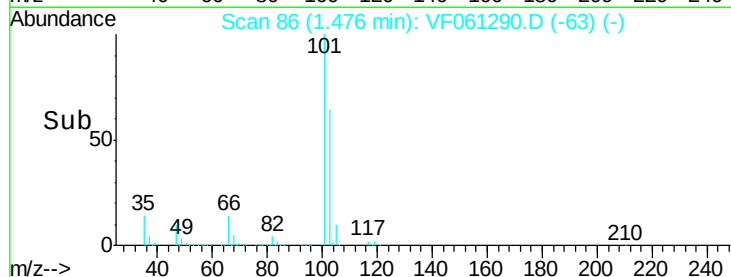
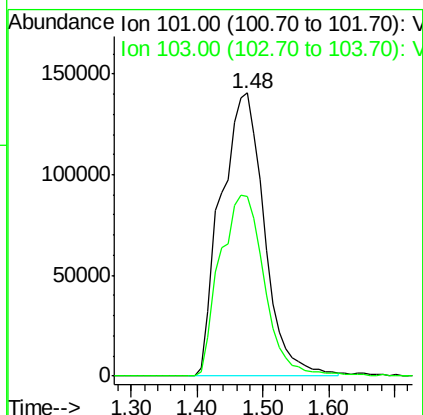
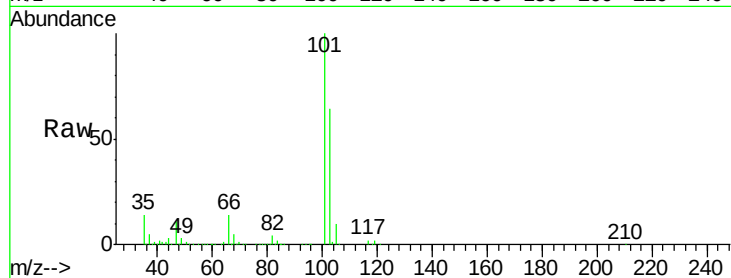
Trichlorofluoromethane
Concen: 151.759 ug/l
RT: 1.48 min Scan# 86
Delta R.T. 0.02 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	49.9	74.9

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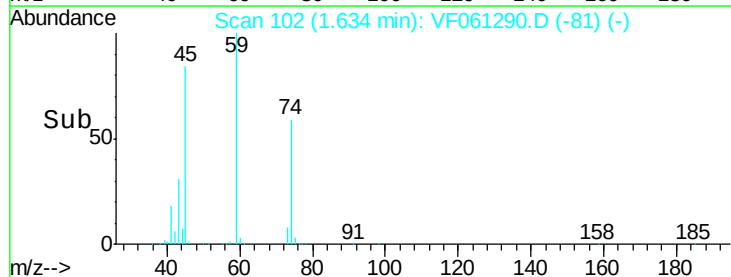
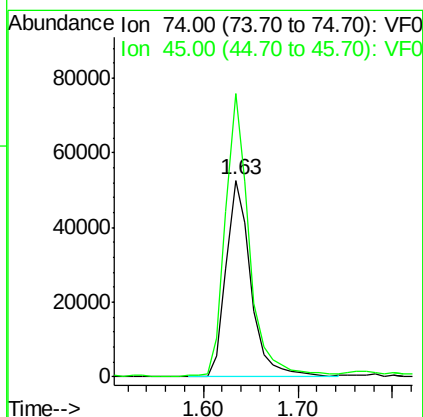
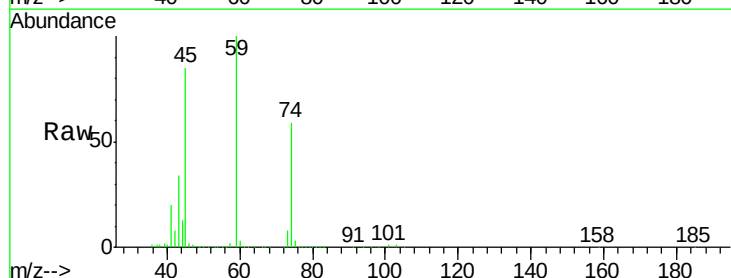
MMDadoda
1/9/2019 11:45:10 AM

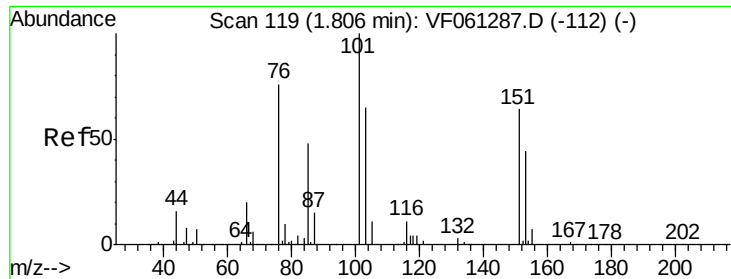


#8

Diethyl Ether
Concen: 157.787 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	143.9	62.1	186.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 149.148 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

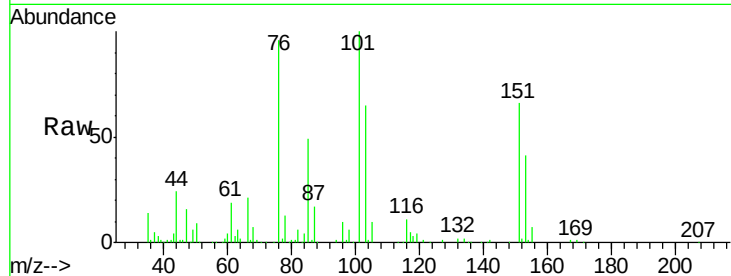
ClientSampleId :

VSTDIC150

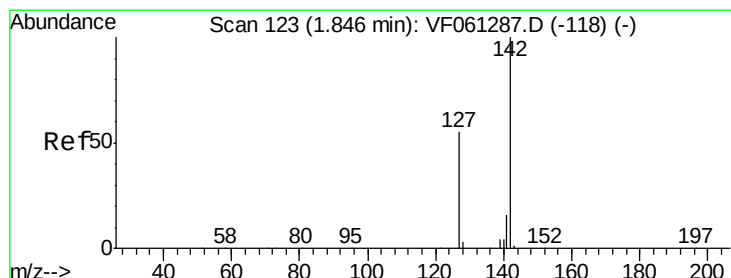
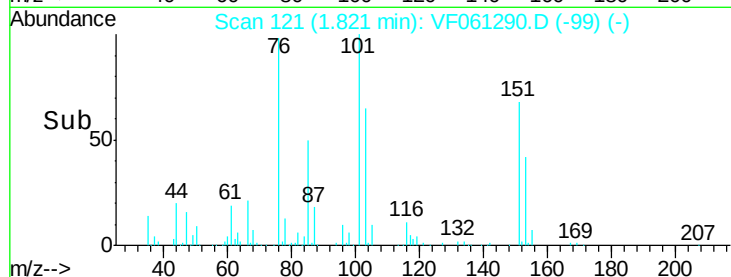
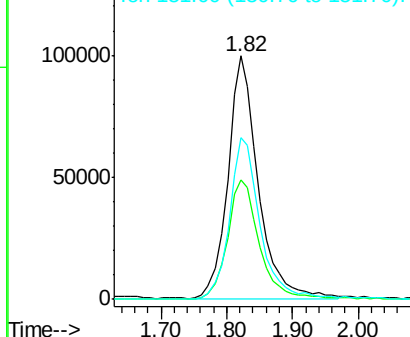
Tot Ion:	101	Resp:	318806
Ion Ratio	Lower	Upper	
101	100		
85	49.0	38.4	57.6
151	66.4	51.4	77.2

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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 152.016 ug/l m

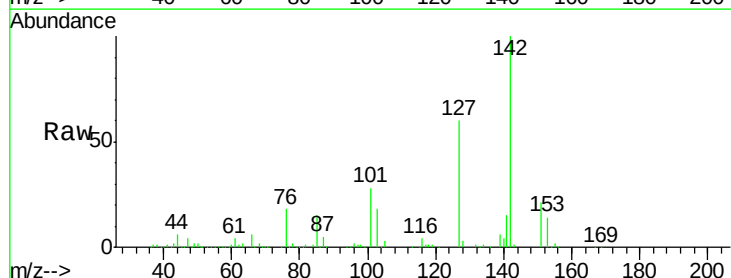
RT: 1.85 min Scan# 124

Delta R.T. 0.01 min

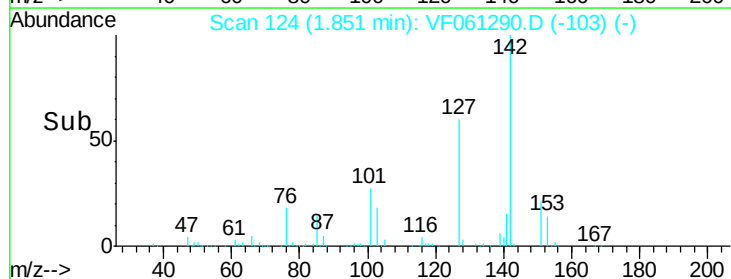
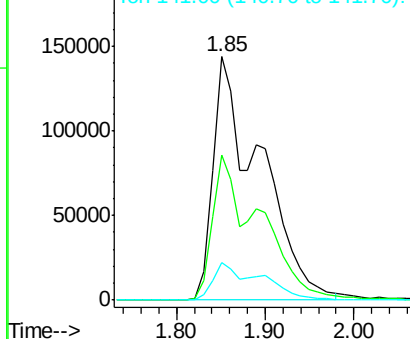
Lab File: VF061290.D

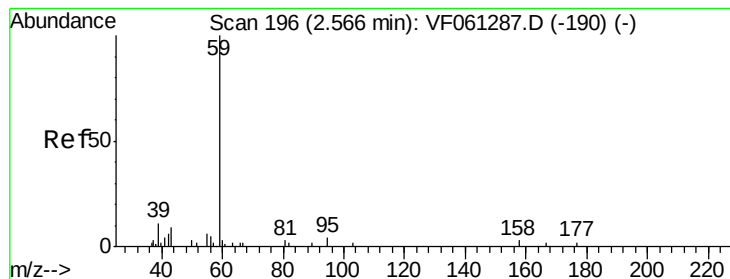
Acq: 8 Jan 2019 16:55

Tgt Ion:	142	Resp:	524998
Ion Ratio	Lower	Upper	
142	100		
127	59.7	44.3	66.5
141	15.4	13.2	19.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V





#11

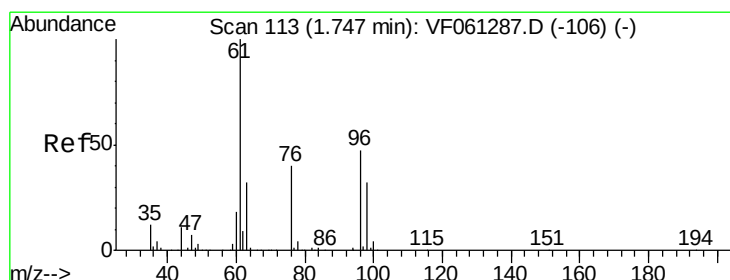
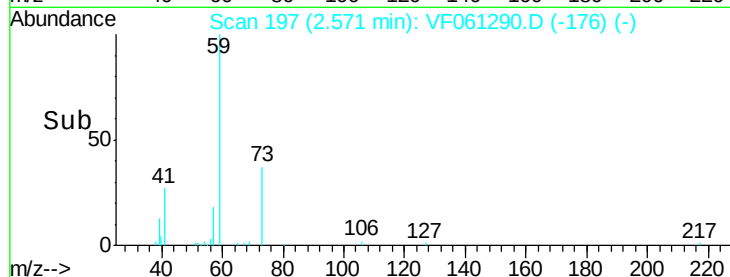
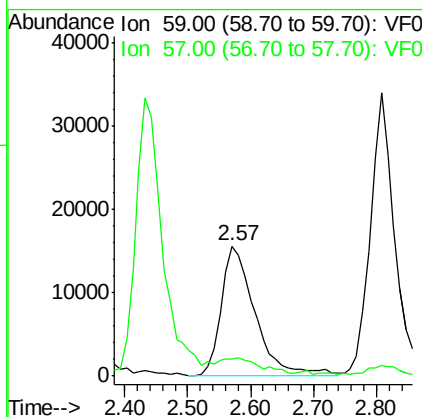
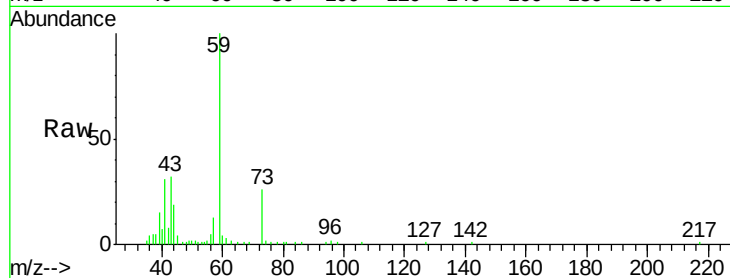
Tert butyl alcohol
Concen: 573.214 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion: 59 Resp: 57293
Ion Ratio Lower Upper
59 100
57 13.2 15.1 22.7#

Manual Integrations
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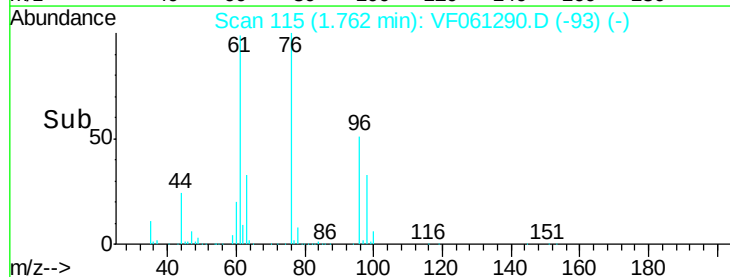
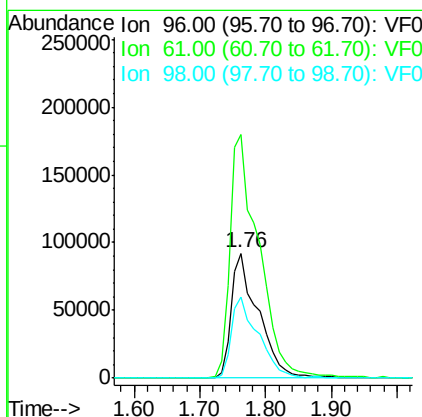
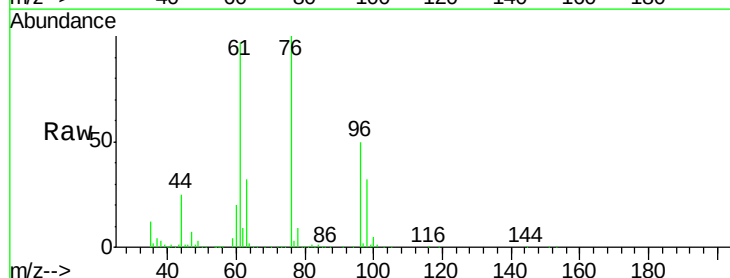
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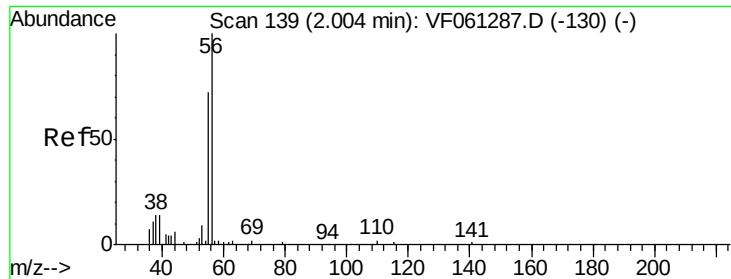


#12

1,1-Dichloroethene
Concen: 147.072 ug/l
RT: 1.76 min Scan# 115
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion: 96 Resp: 264256
Ion Ratio Lower Upper
96 100
61 194.8 171.8 257.8
98 64.7 54.2 81.4





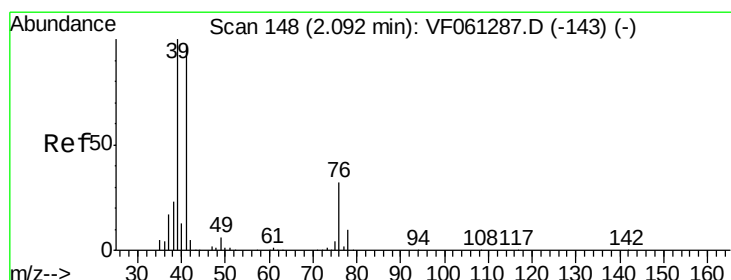
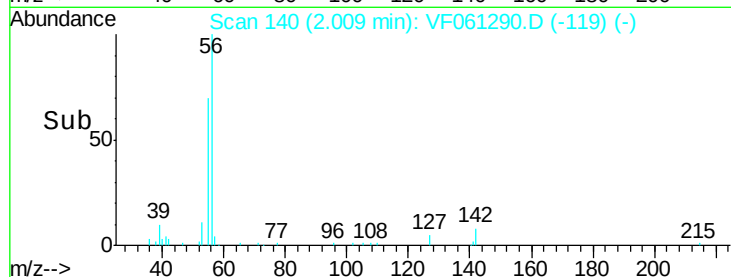
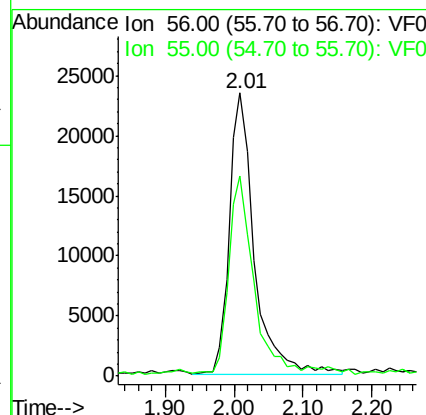
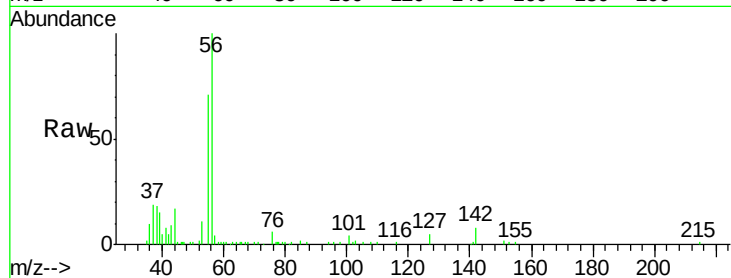
#13
Acrolein
Concen: 629.595 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.9	59.4	89.0

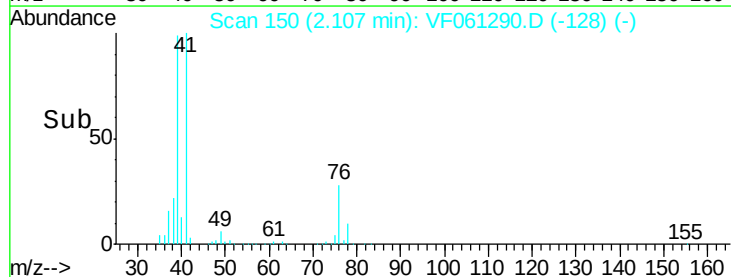
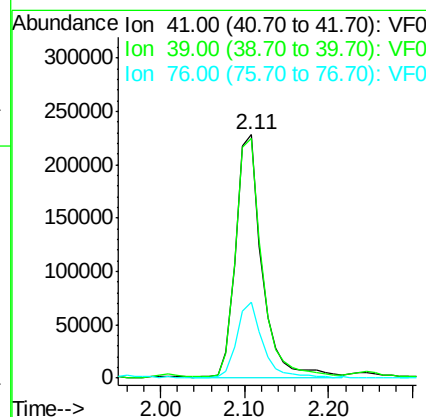
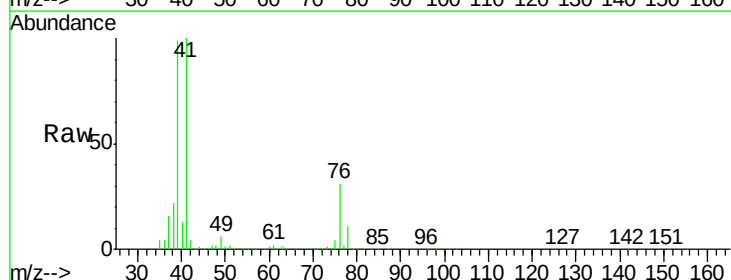
Manual Integrations
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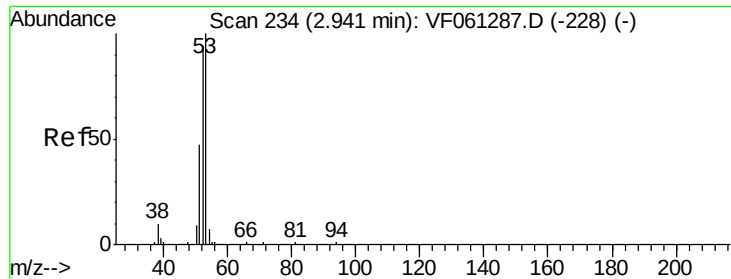
MMDadoda
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#14
Allyl chloride
Concen: 198.027 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
41	100		
39	98.7	82.6	123.8
76	31.4	26.9	40.3





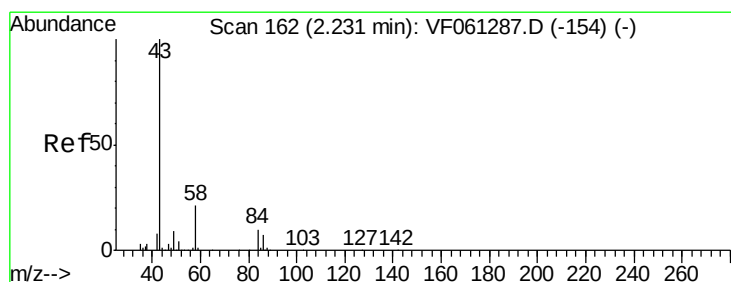
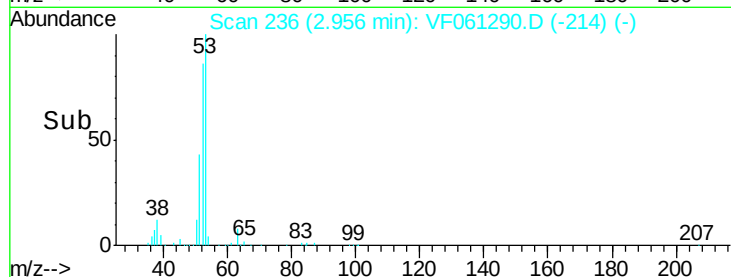
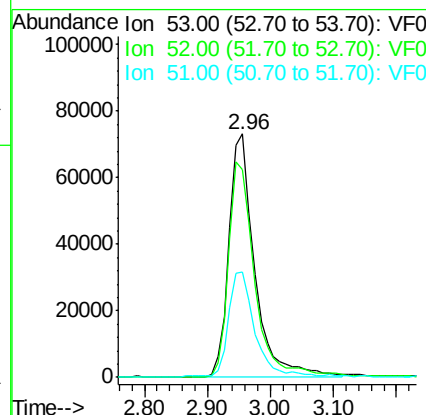
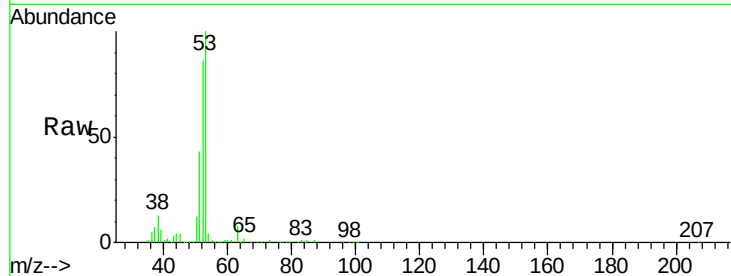
#15
 Acrylonitrile
 Concen: 781.811 ug/l
 RT: 2.96 min Scan# 236
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
53	100		
52	85.5	74.6	111.8
51	43.1	37.8	56.6

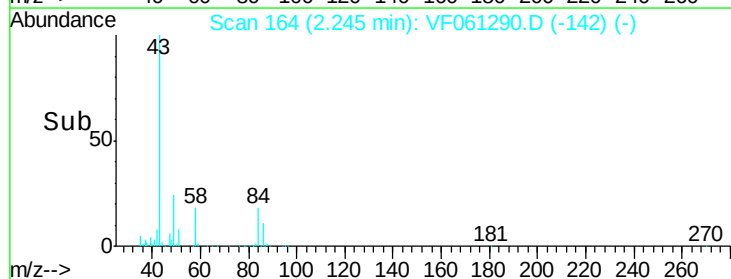
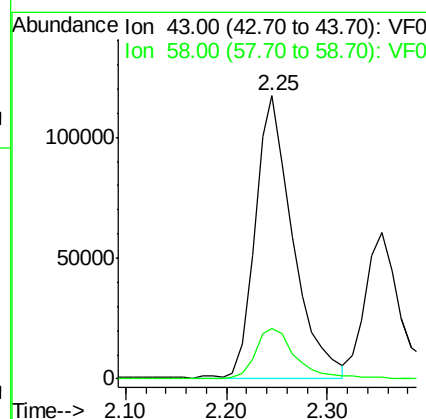
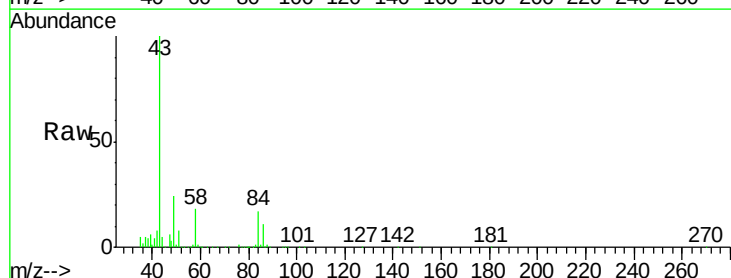
Manual Integrations
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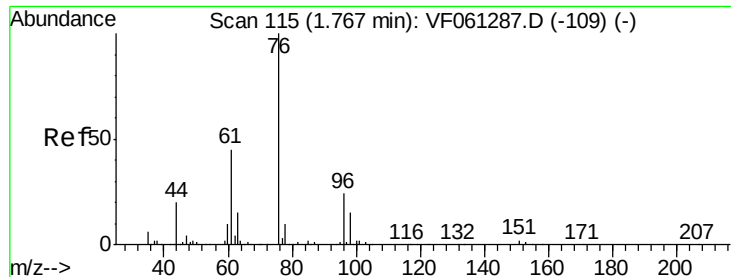
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#16
 Acetone
 Concen: 636.165 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.6	16.6	25.0





#17

Carbon Disulfide

Concen: 155.079 ug/l

RT: 1.77 min Scan# 116

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 848477

Ion Ratio Lower Upper

76 100

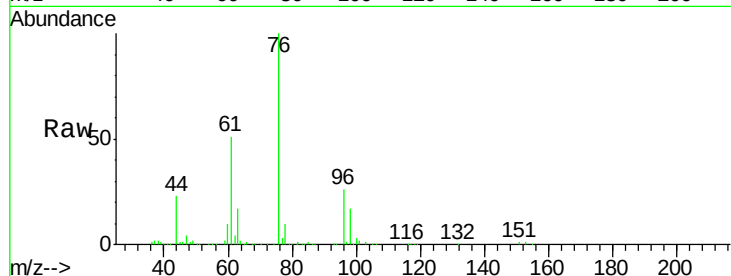
78 10.3 7.8 11.6

Manual Integrations

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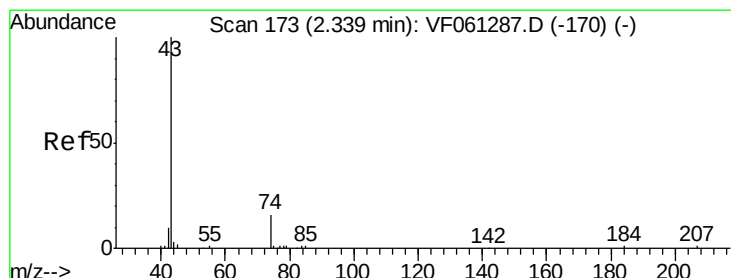
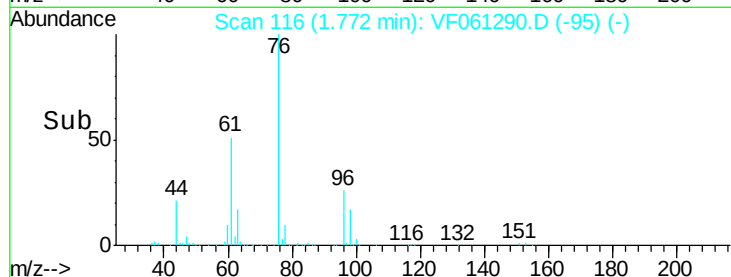
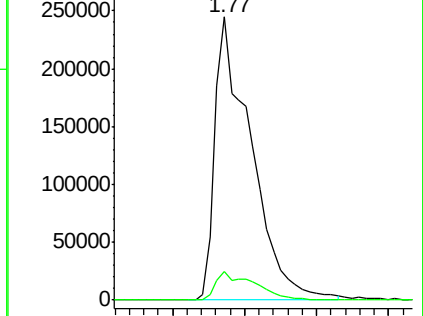
MMDadoda

1/9/2019 11:45:10 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 121.361 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF061290.D

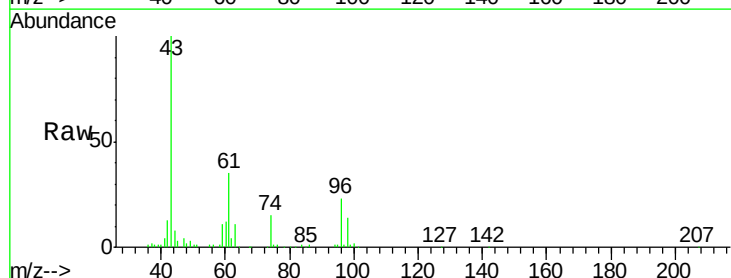
Acq: 8 Jan 2019 16:55

Tgt Ion: 43 Resp: 127399

Ion Ratio Lower Upper

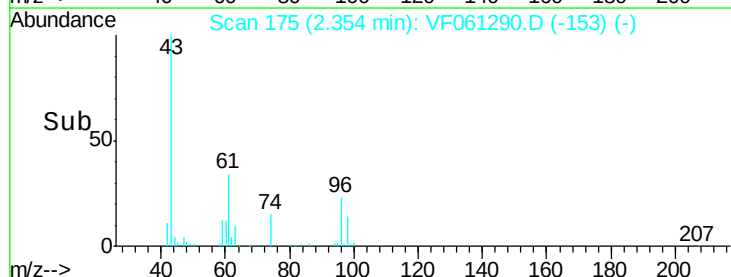
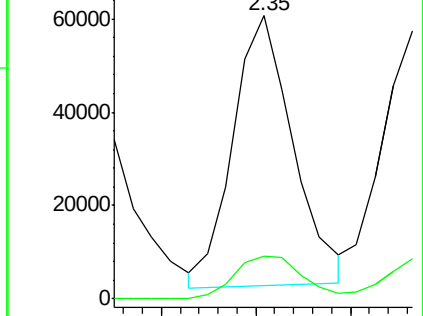
43 100

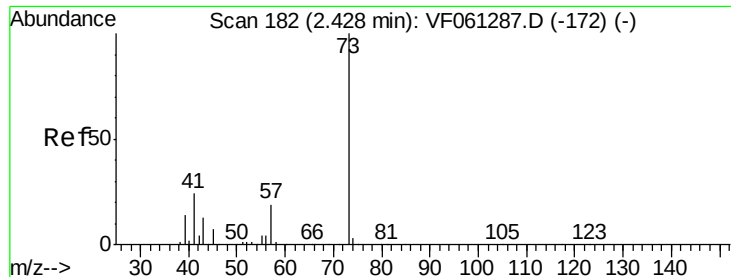
74 15.0 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#19

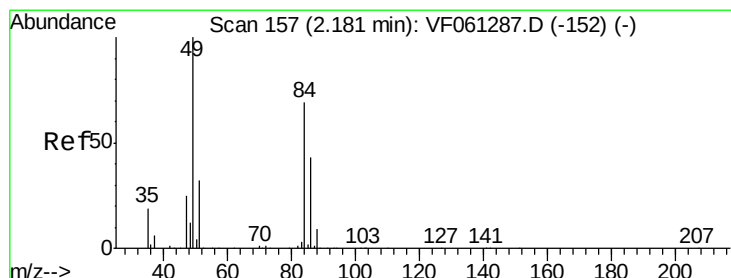
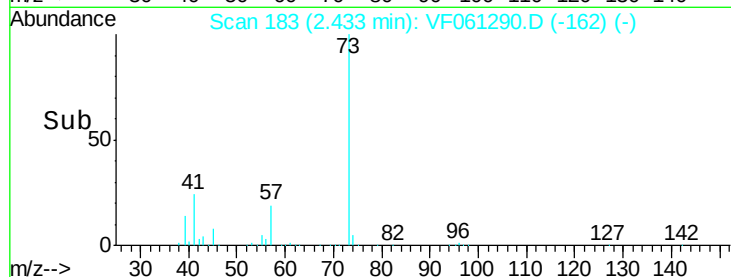
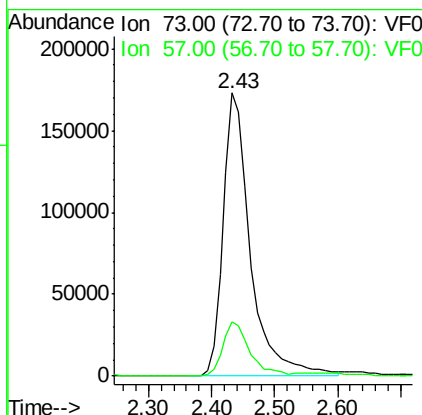
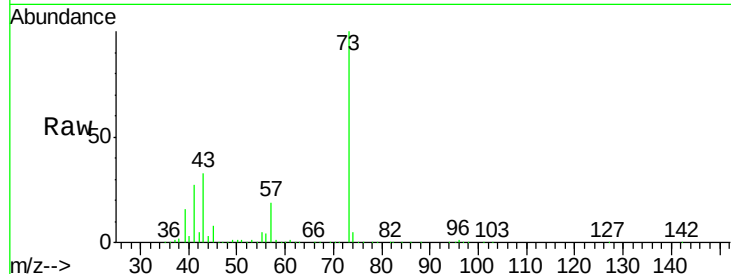
Methyl tert-butyl Ether
 Concen: 139.158 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion: 73 Resp: 521190
 Ion Ratio Lower Upper
 73 100
 57 19.3 15.5 23.3

Manual Integrations
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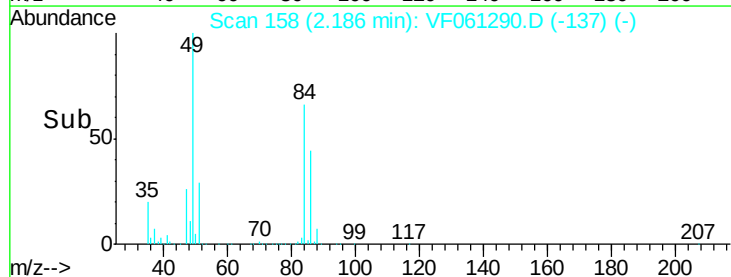
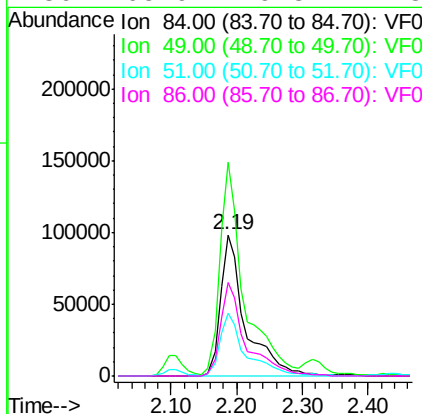
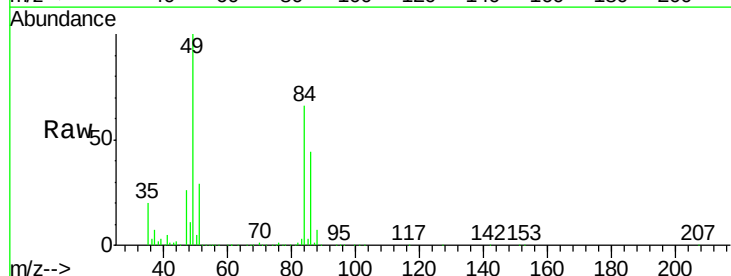
MMDadoda
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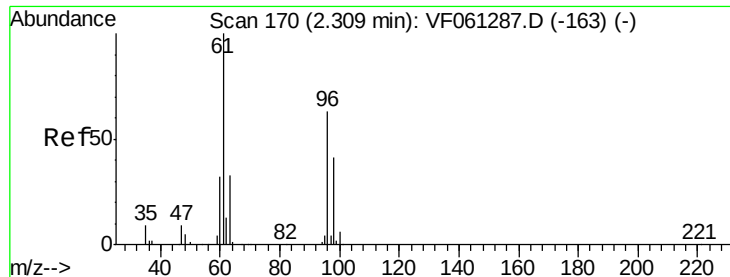


#20

Methylene Chloride
 Concen: 118.402 ug/l
 RT: 2.19 min Scan# 158
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion: 84 Resp: 260667
 Ion Ratio Lower Upper
 84 100
 49 151.4 116.6 175.0
 51 44.5 37.7 56.5
 86 65.9 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 156.490 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

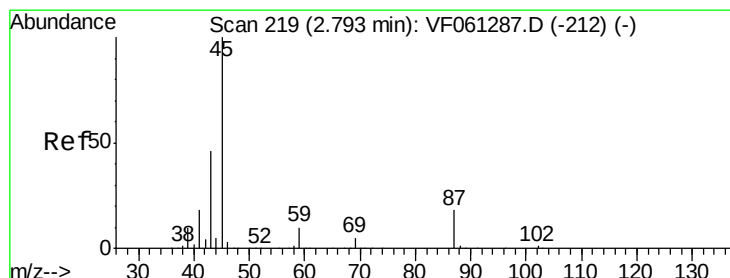
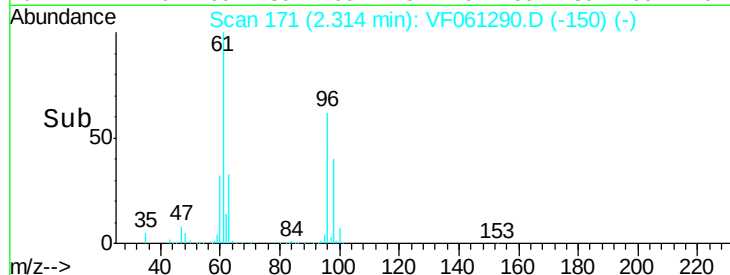
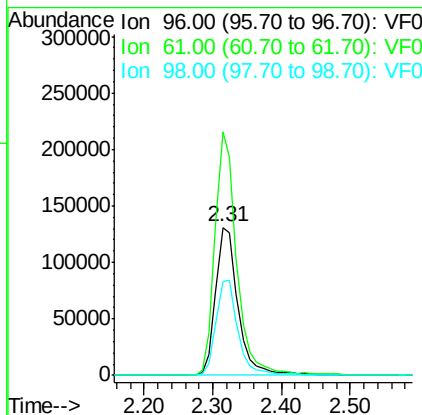
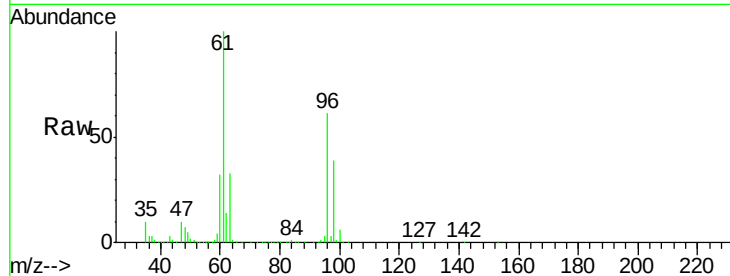
ClientSampleId :

VSTDIC150

Tot Ion:	96	Resp:	295732
Ion Ratio	Lower	Upper	
96	100		
61	164.9	127.0	190.4
98	64.0	51.7	77.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 151.963 ug/l

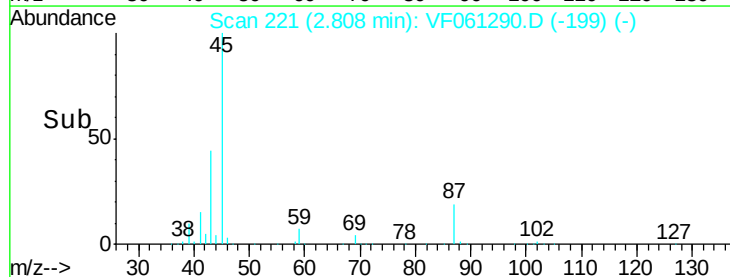
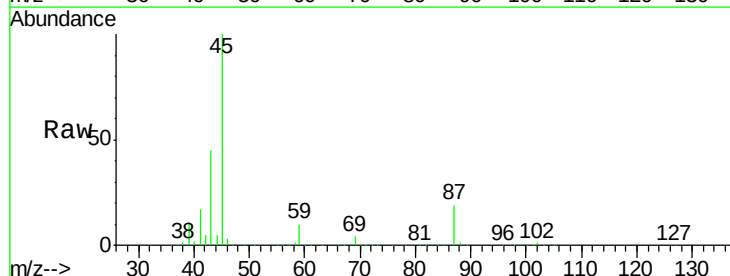
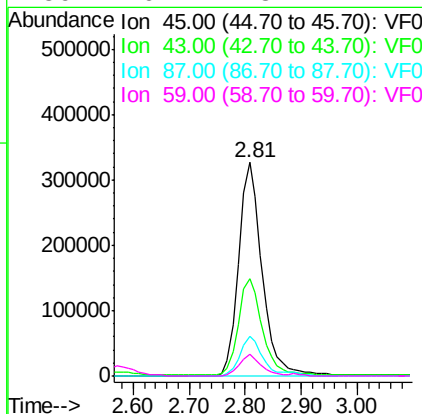
RT: 2.81 min Scan# 221

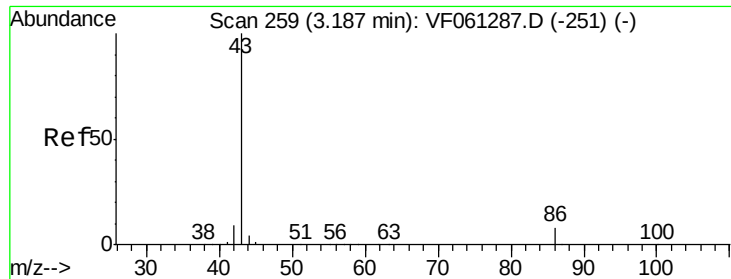
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	45	Resp:	949168
Ion Ratio	Lower	Upper	
45	100		
43	45.4	37.4	56.2
87	18.8	14.2	21.2
59	10.4	8.2	12.2





#23

Vinyl Acetate

Concen: 549.882 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1572912

Ion Ratio Lower Upper

43 100

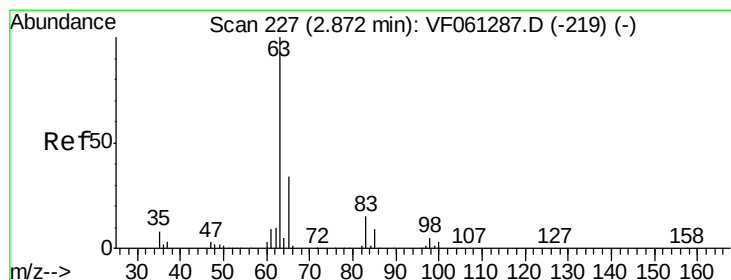
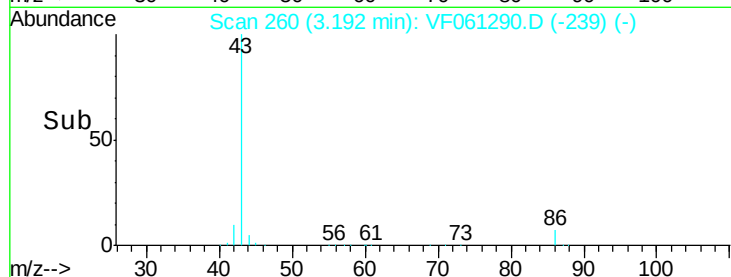
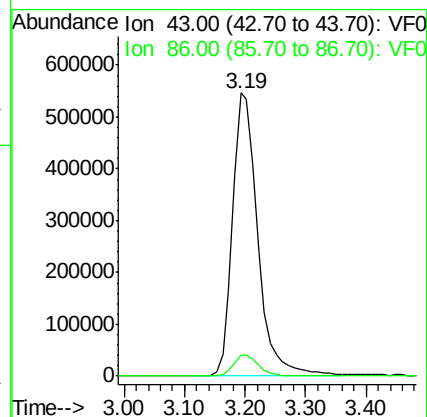
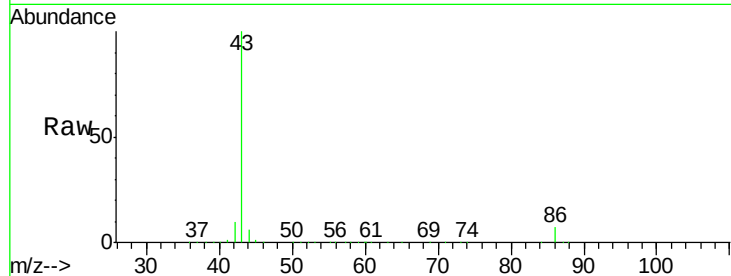
86 7.5 6.5 9.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 156.565 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

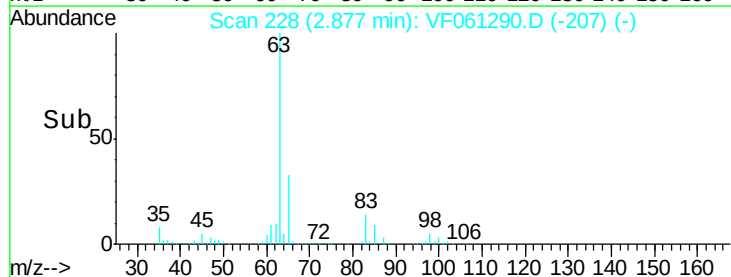
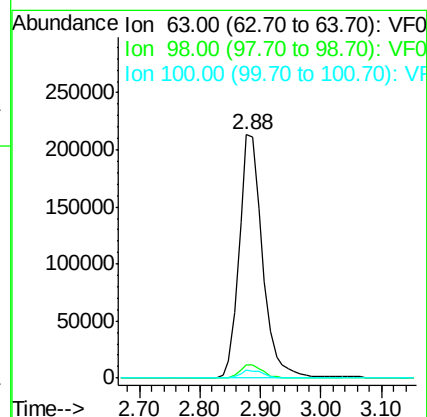
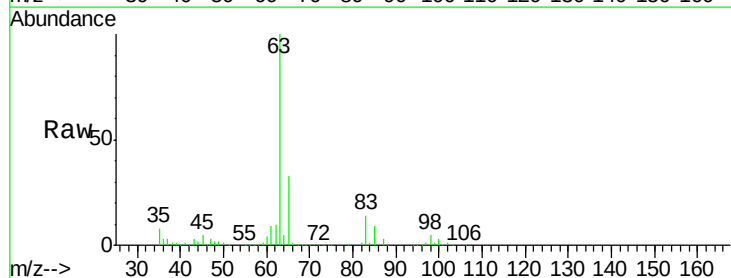
Tgt Ion: 63 Resp: 573346

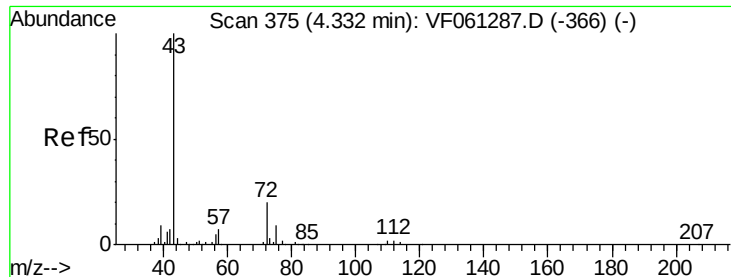
Ion Ratio Lower Upper

63 100

98 5.4 2.5 7.6

100 3.1 1.7 5.0





#25

2-Butanone

Concen: 559.667 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 498373

Ion Ratio Lower Upper

43 100

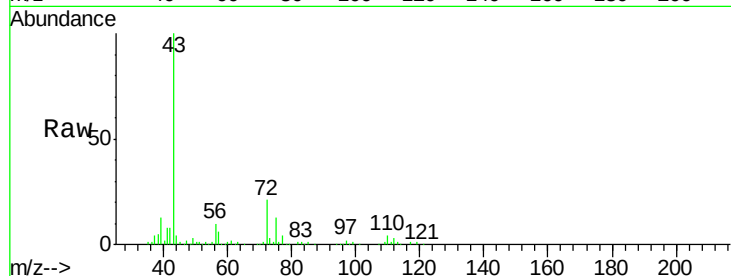
72 21.2 16.5 24.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.35

120000

100000

80000

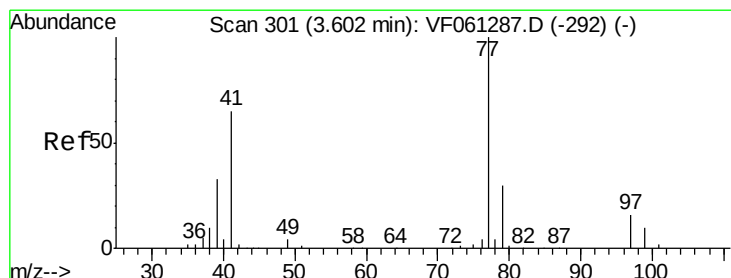
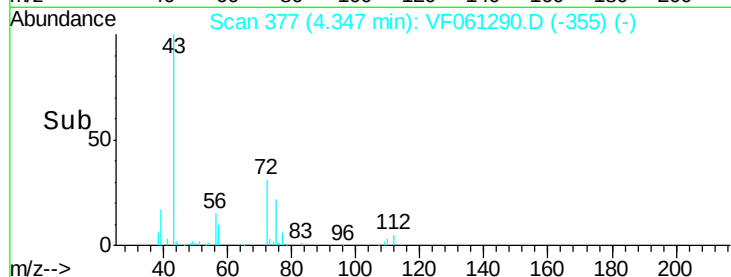
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 168.434 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF061290.D

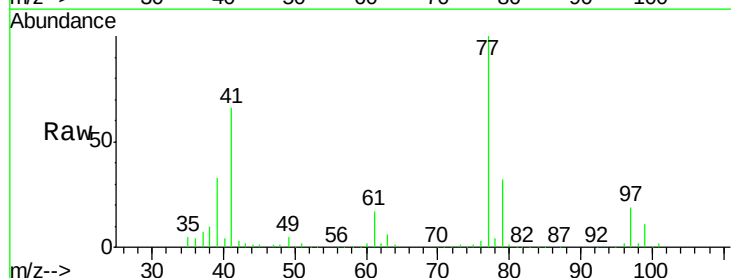
Acq: 8 Jan 2019 16:55

Tgt Ion: 77 Resp: 355202

Ion Ratio Lower Upper

77 100

97 18.8 8.6 25.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.61

120000

100000

80000

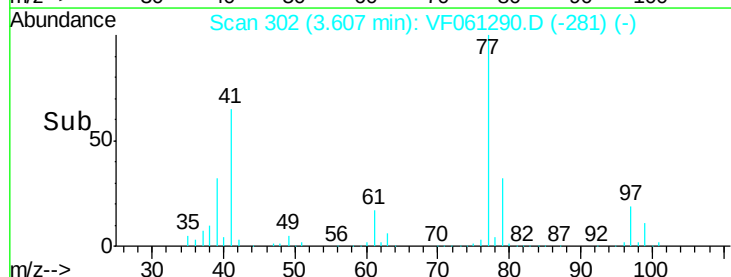
60000

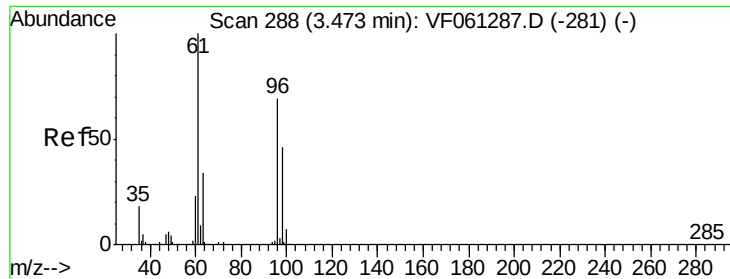
40000

20000

0

Time-->





#27

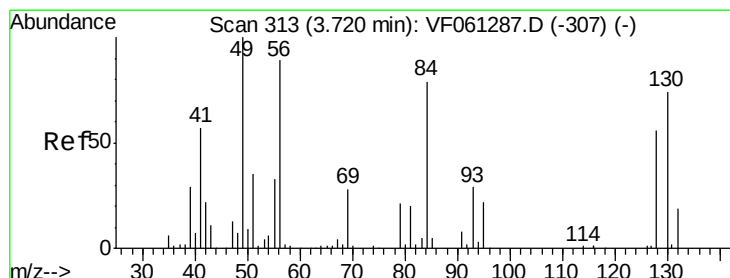
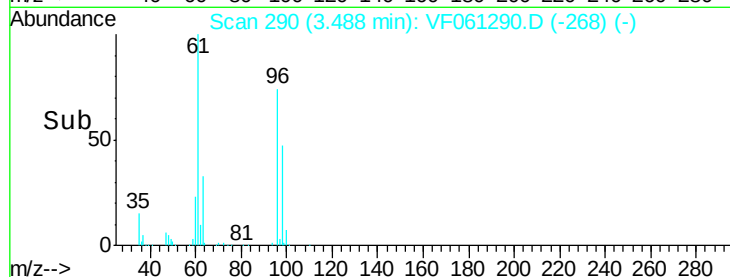
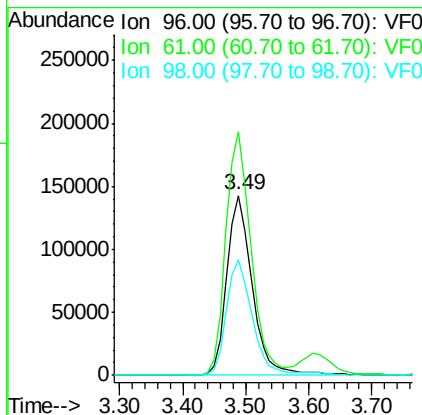
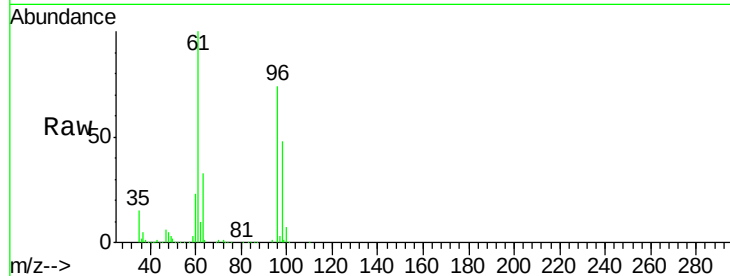
cis-1,2-Dichloroethene
Concen: 143.419 ug/l
RT: 3.49 min Scan# 290
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
96	100	398265		
61	135.5	0.0	288.2	
98	64.4	0.0	132.2	

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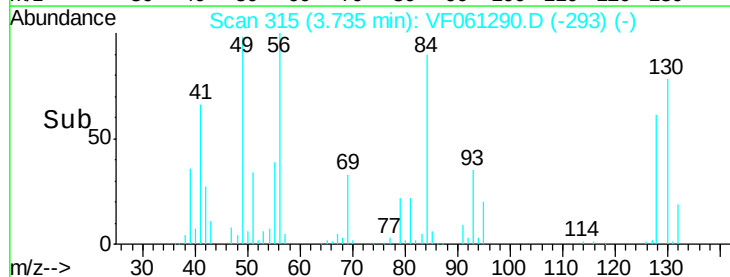
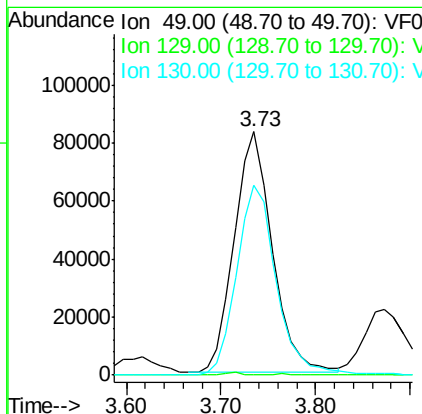
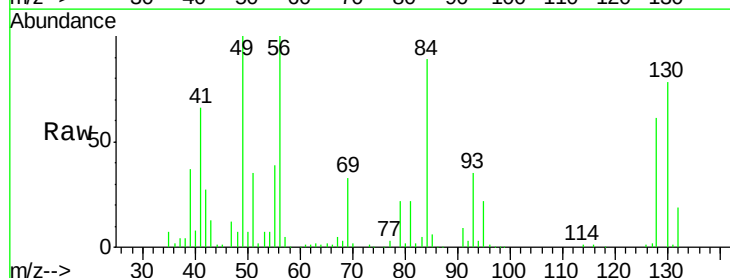
MMDadoda
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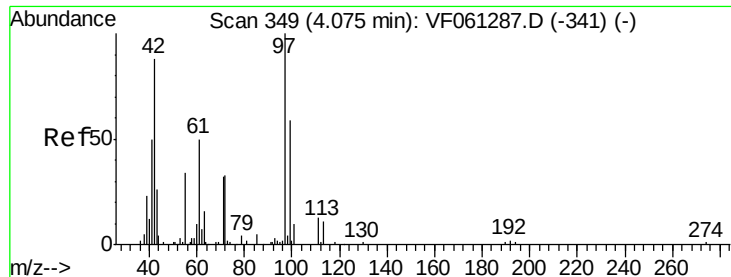


#28

Bromochloromethane
Concen: 134.284 ug/l
RT: 3.73 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	232793		
129	0.0	0.0	0.0	
130	78.1	58.6	88.0	





#29

Tetrahydrofuran

Concen: 629.278 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

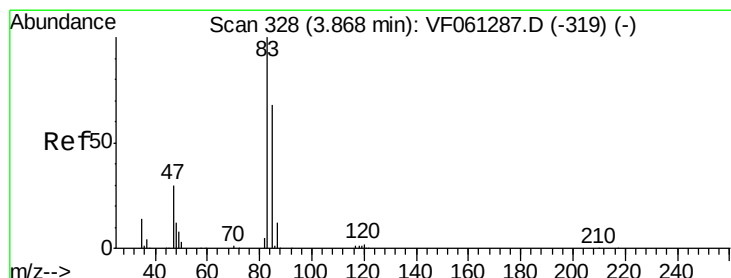
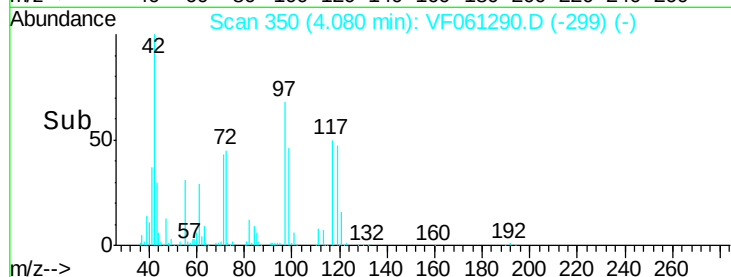
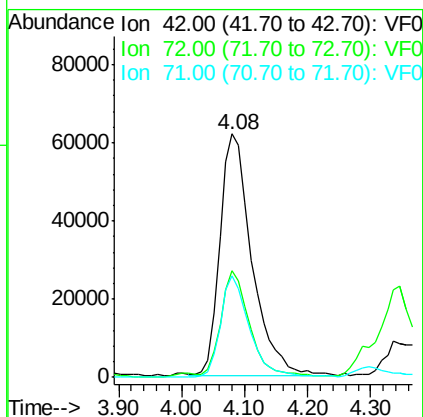
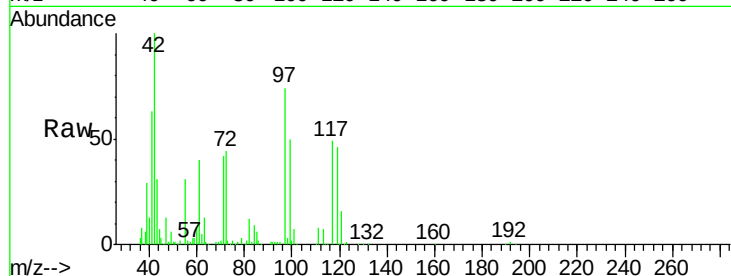
ClientSampleId :

VSTDIC150

Tot Ion:	42	Resp:	217872
Ion	Ratio	Lower	Upper
42	100		
72	39.4	32.3	48.5
71	38.3	29.5	44.3

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#30

Chloroform

Concen: 134.432 ug/l

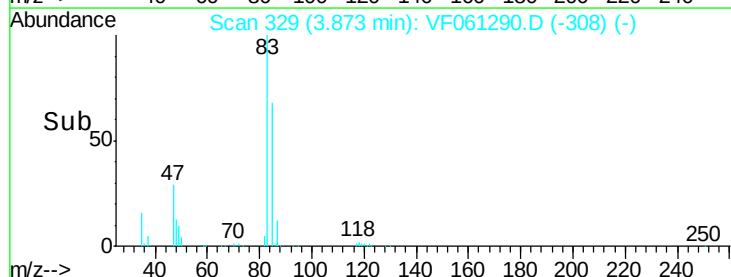
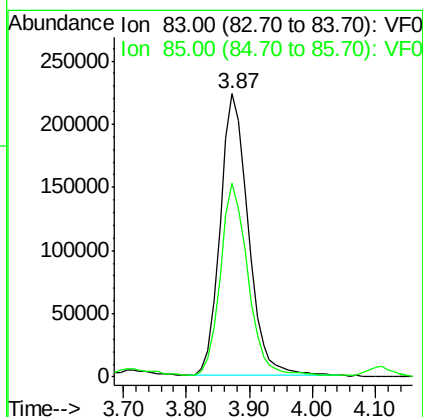
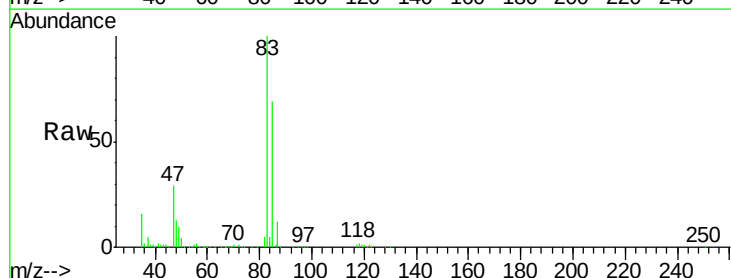
RT: 3.87 min Scan# 329

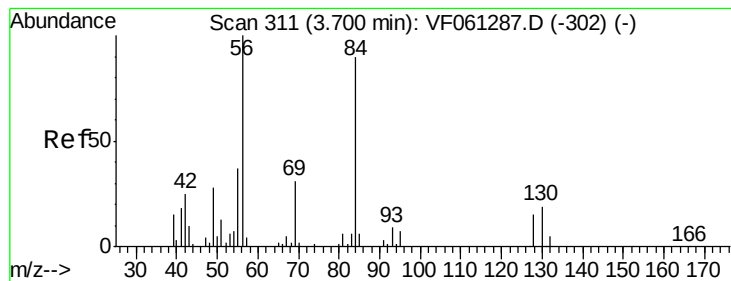
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	83	Resp:	688607
Ion	Ratio	Lower	Upper
83	100		
85	68.6	54.4	81.6





#31

Cyclohexane

Concen: 148.761 ug/l

RT: 3.71 min Scan# 312

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

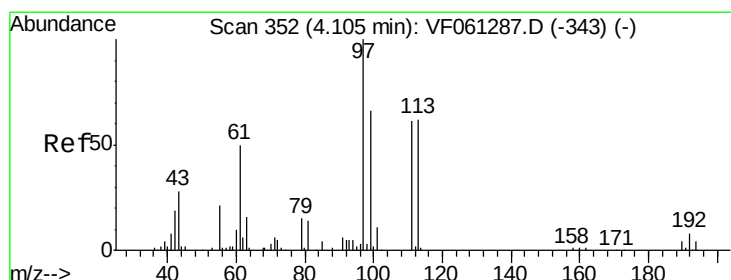
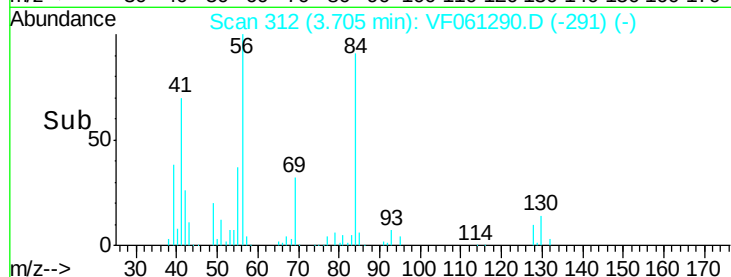
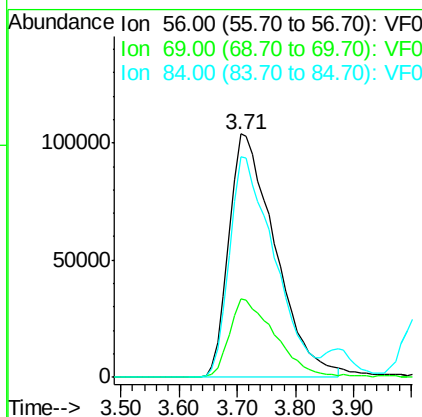
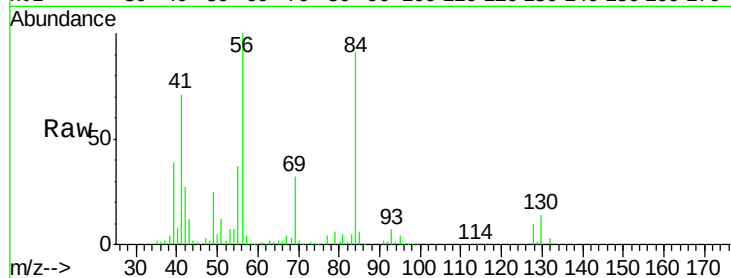
ClientSampleId :

VSTDIC150

Tot Ion:	56	Resp:	577406
Ion Ratio	Lower	Upper	
56	100		
69	32.1	24.7	37.1
84	90.6	72.2	108.4

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#32

1,1,1-Trichloroethane

Concen: 176.159 ug/l

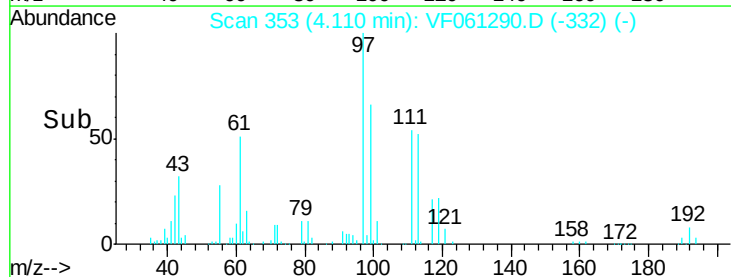
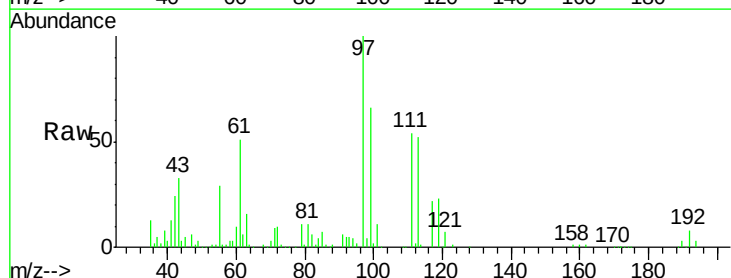
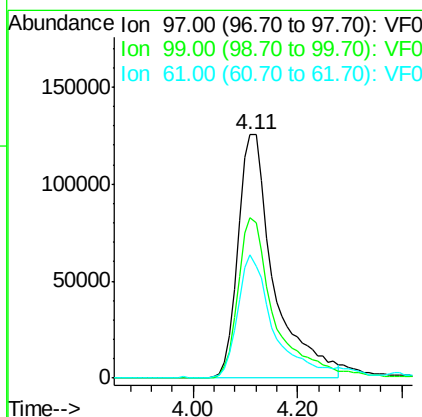
RT: 4.11 min Scan# 353

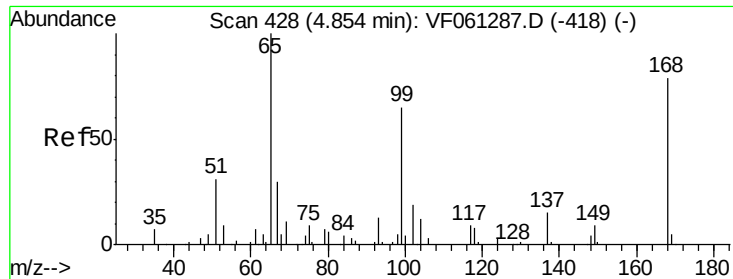
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	97	Resp:	586103
Ion Ratio	Lower	Upper	
97	100		
99	65.9	52.7	79.1
61	50.8	40.8	61.2





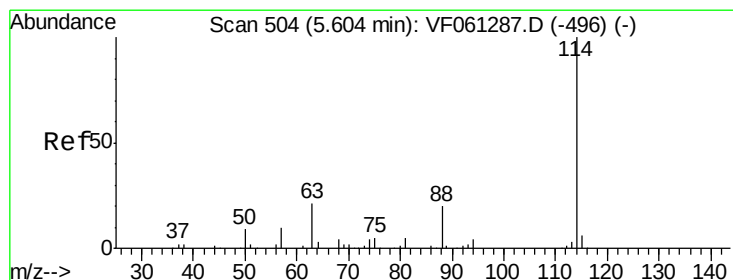
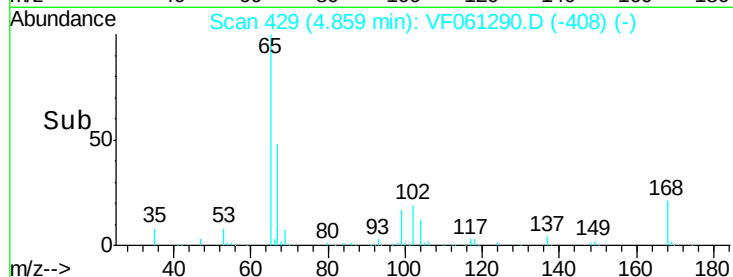
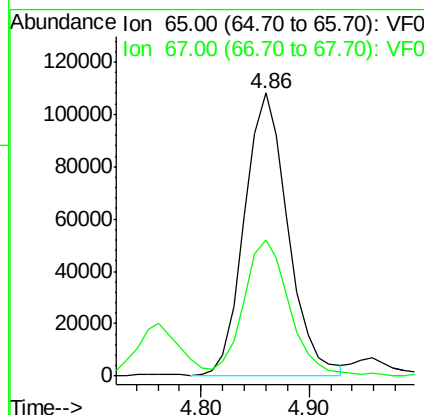
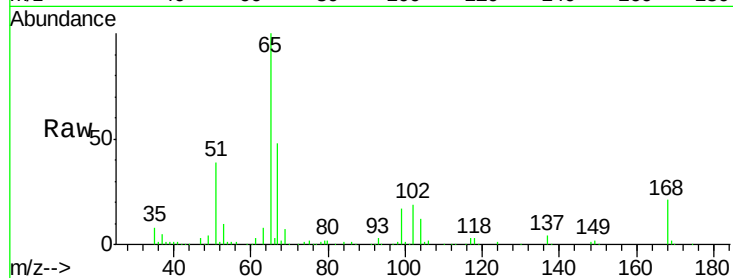
#33
 1,2-Dichloroethane-d4
 Concen: 127.227 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	98.2

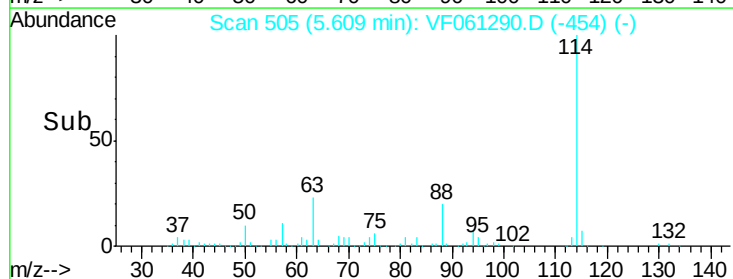
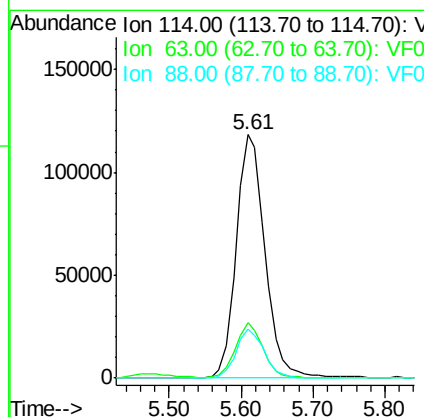
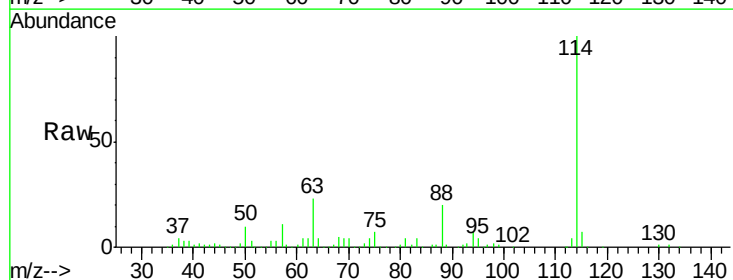
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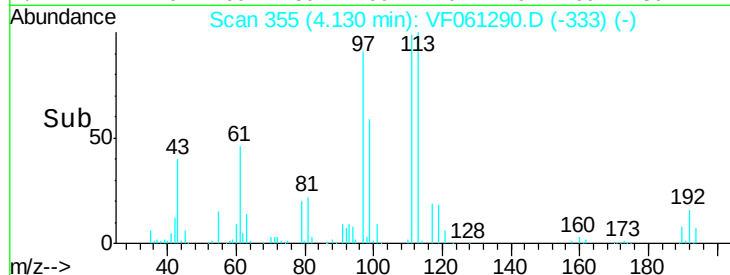
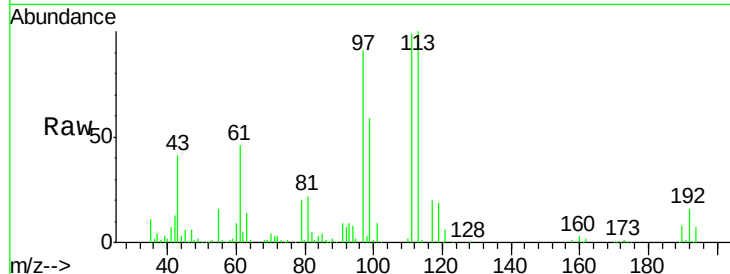
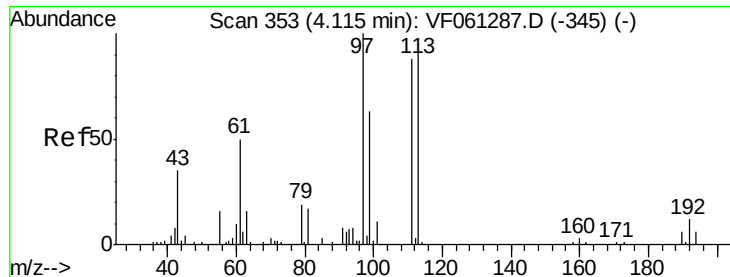
MMDadoda
 1/9/2019 11:45:10 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	42.8
88	20.4	0.0	40.0





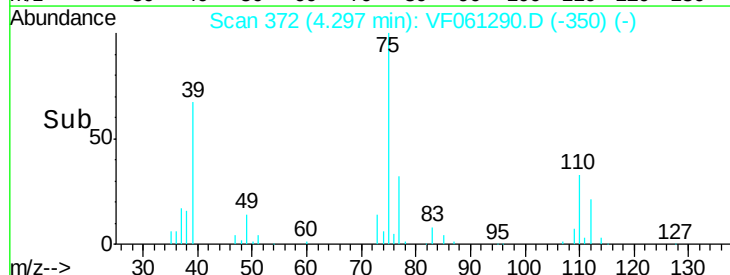
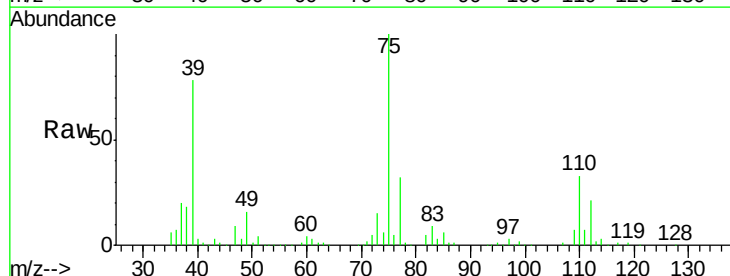
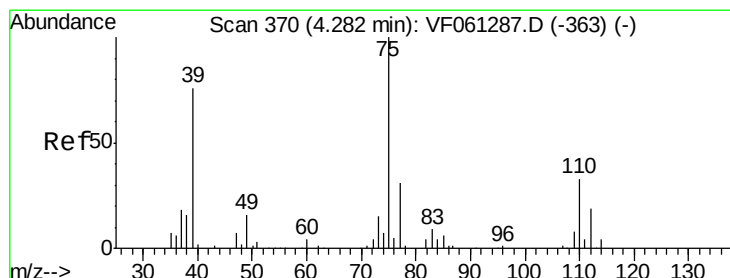
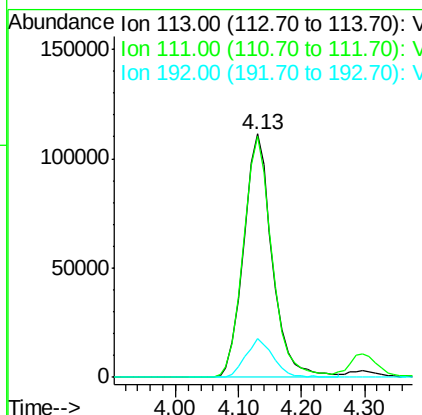
#35
Dibromofluoromethane
Concen: 138.033 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tot Ion	Ratio	Resp	Lower	Upper
113	100	349861		
111	99.2	78.0	117.0	
192	15.8	10.6	16.0	

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

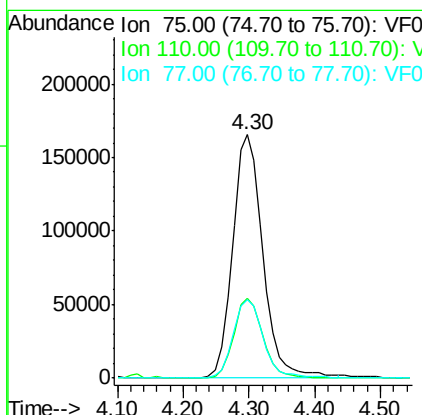
Manual Integrations
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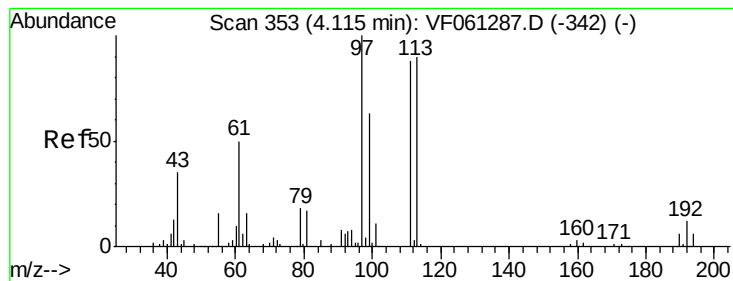
MMDadoda
1/9/2019 11:45:10 AM



#36
1,1-Dichloropropene
Concen: 136.951 ug/l
RT: 4.30 min Scan# 372
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	531379		
110	32.8	16.6	49.8	
77	32.4	25.1	37.7	





#37

Ethyl Acetate

Concen: 127.014 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 196770

Ion Ratio Lower Upper

43 100

61 122.5 113.3 169.9

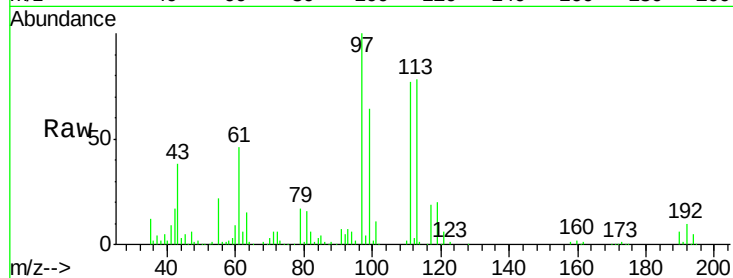
70 9.0 9.4 14.0#

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

150000

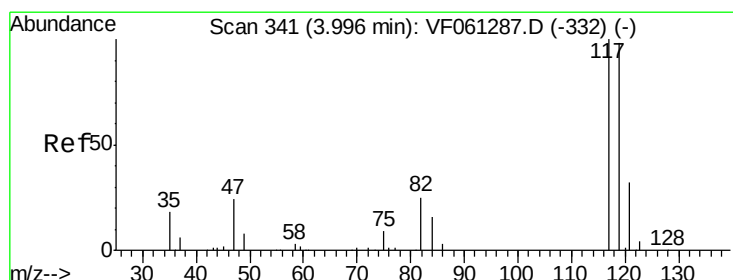
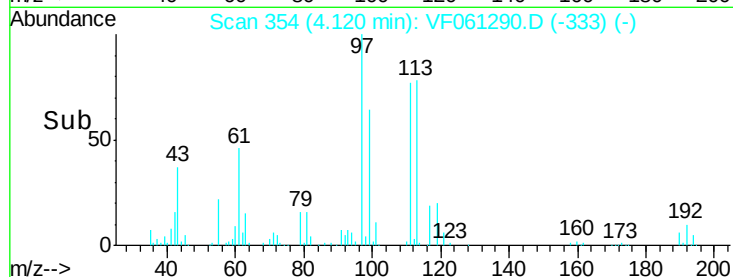
100000

50000

0

4.00 4.20

Time-->



#38

Carbon Tetrachloride

Concen: 181.320 ug/l m

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

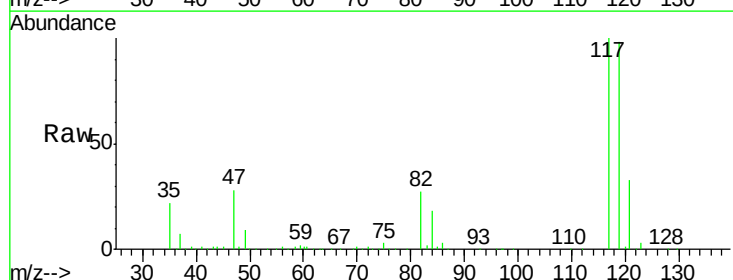
Tgt Ion: 117 Resp: 563247

Ion Ratio Lower Upper

117 100

119 98.5 78.5 117.7

121 32.6 25.3 37.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

150000

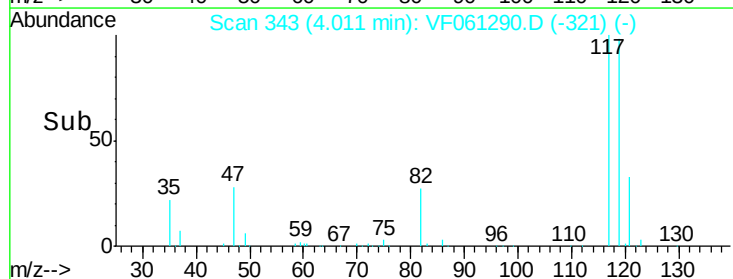
100000

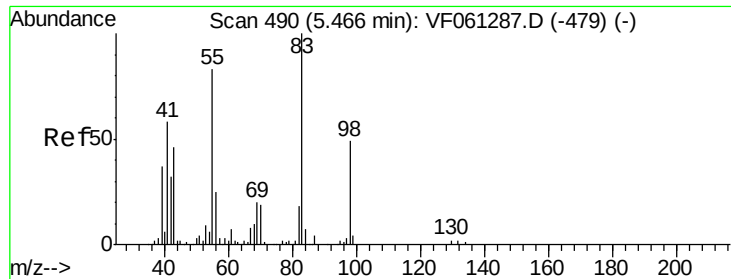
50000

0

3.90 4.00 4.10

Time-->





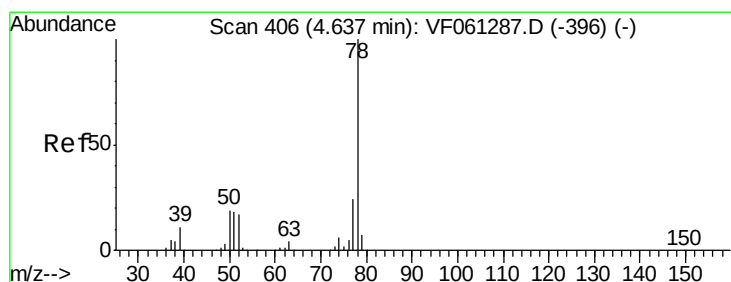
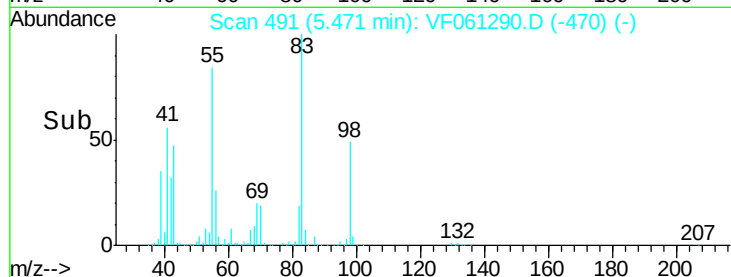
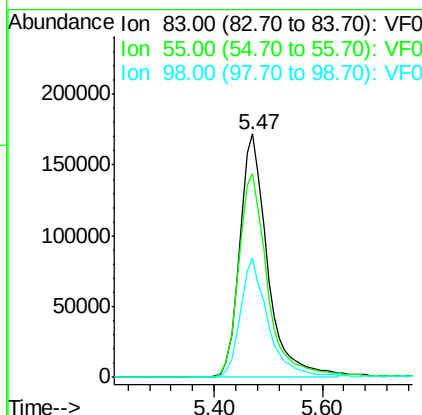
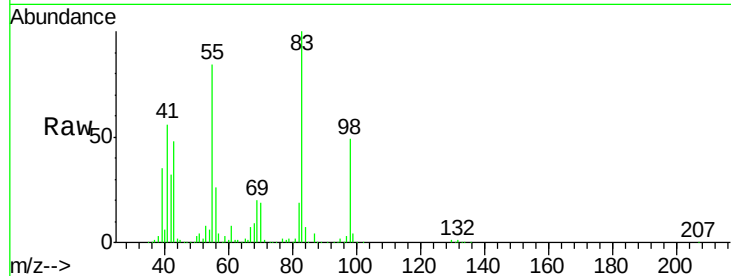
#39
Methylvlcyclohexane
Concen: 148.965 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
83	100	617845		
55	83.9		66.4	99.6
98	48.9		39.1	58.7

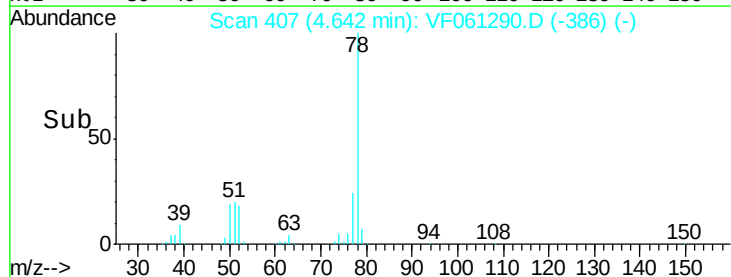
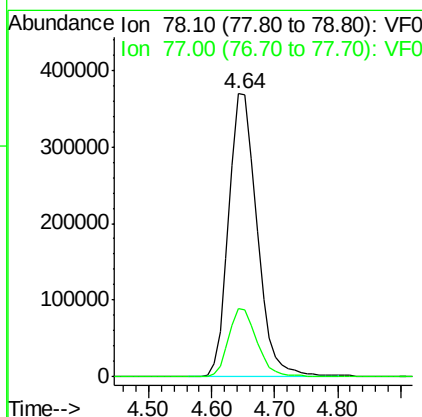
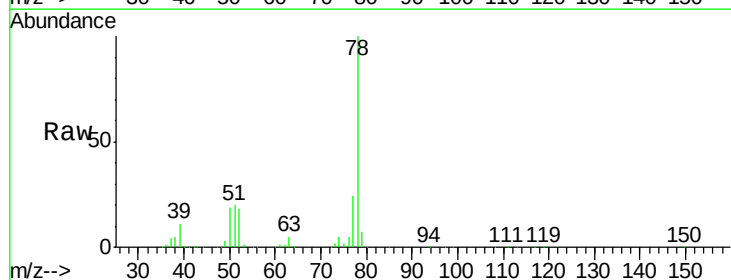
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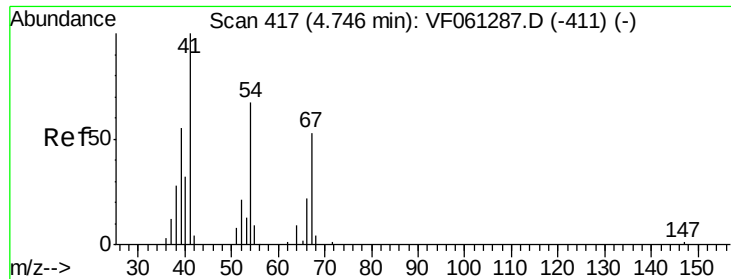
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#40
Benzene
Concen: 131.443 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1157470		
77	24.2		19.1	28.7





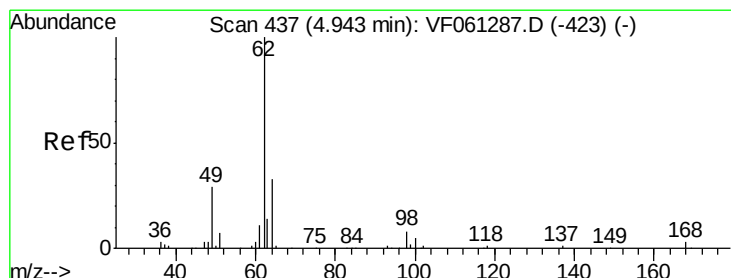
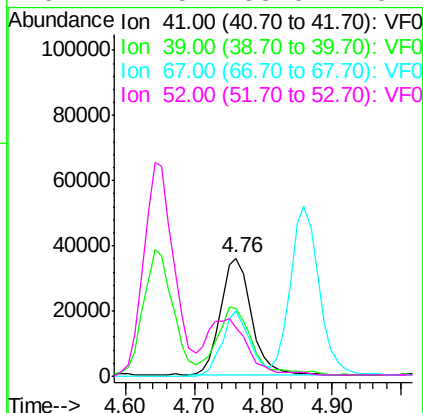
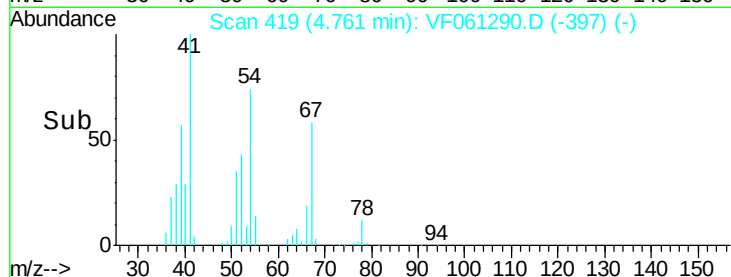
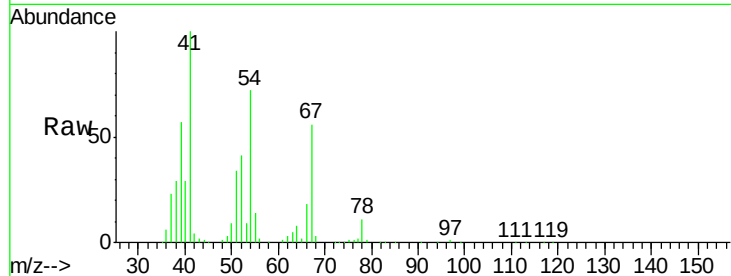
#41
Methacrylonitrile
Concen: 126.251 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.2	52.7	79.1	
67	55.5	41.4	62.2	
52	41.5	33.0	49.4	

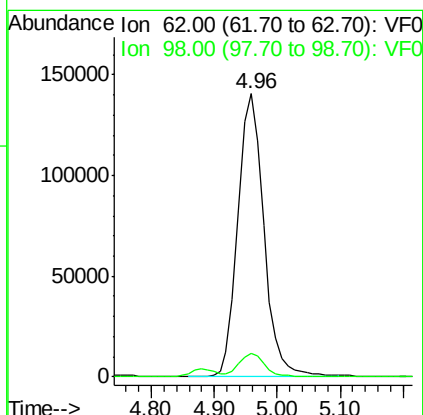
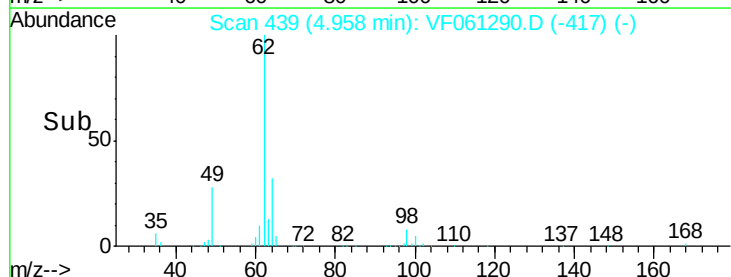
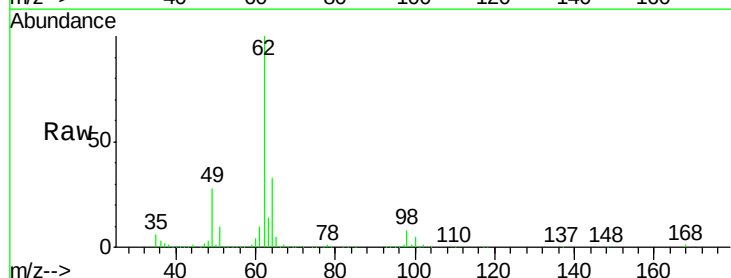
Manual Integrations
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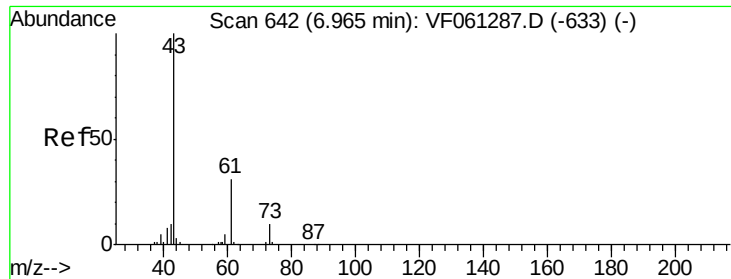
MMDadoda
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#42
1,2-Dichloroethane
Concen: 137.417 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.1	0.0	16.8	





#43

Isopropyl Acetate

Concen: 127.535 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

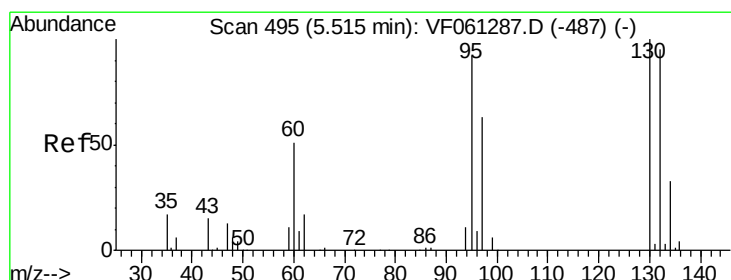
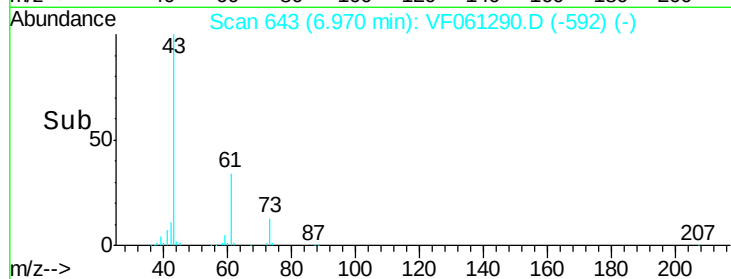
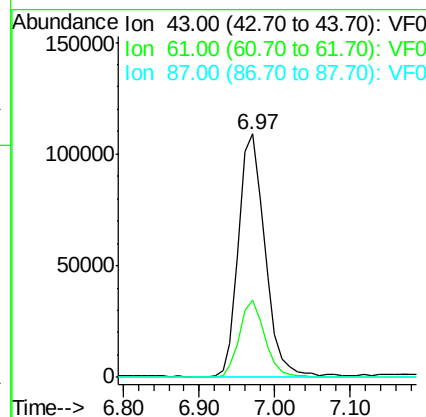
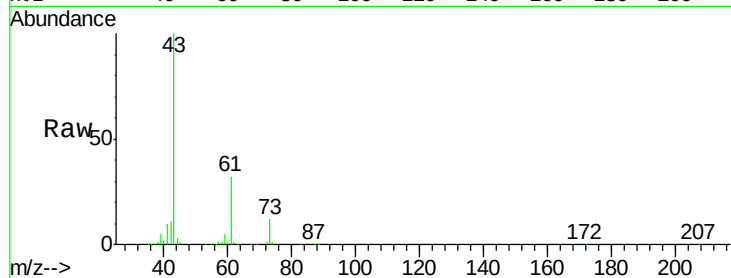
ClientSampleId :

VSTDIC150

Tot Ion:	43	Resp:	263628
Ion	Ratio	Lower	Upper
43	100		
61	31.9	24.3	36.5
87	0.4	0.2	0.4

Manual Integrations
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1/9/2019 11:45:10 AM



#44

Trichloroethene

Concen: 124.230 ug/l

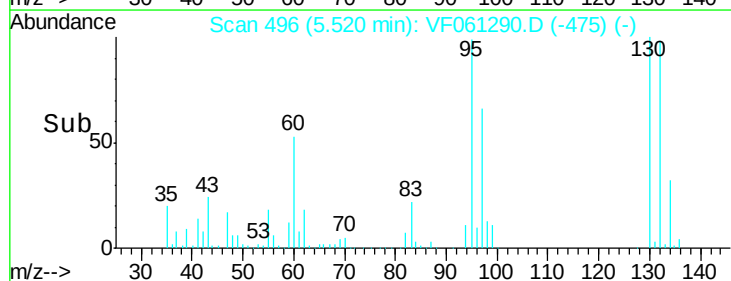
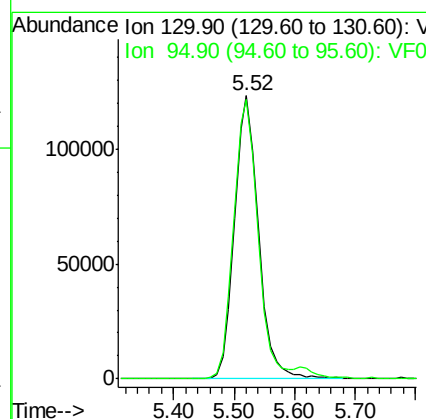
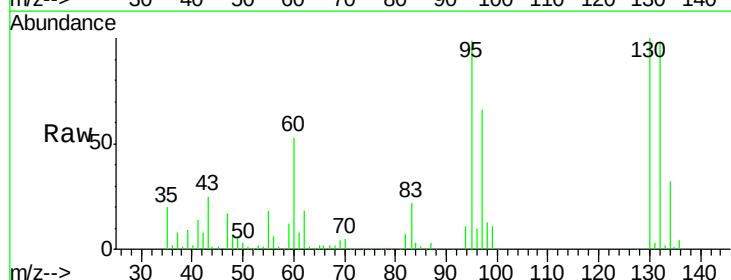
RT: 5.52 min Scan# 496

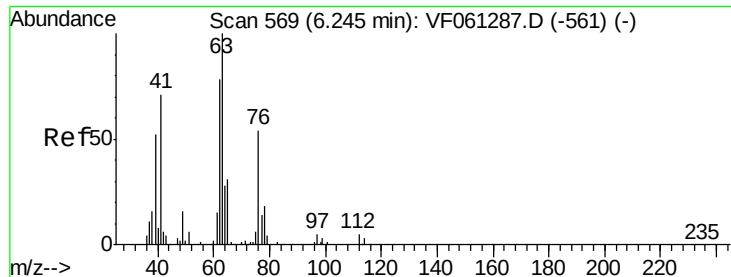
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	130	Resp:	340518
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	184.4





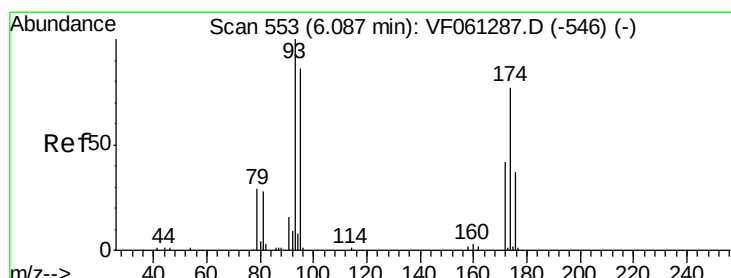
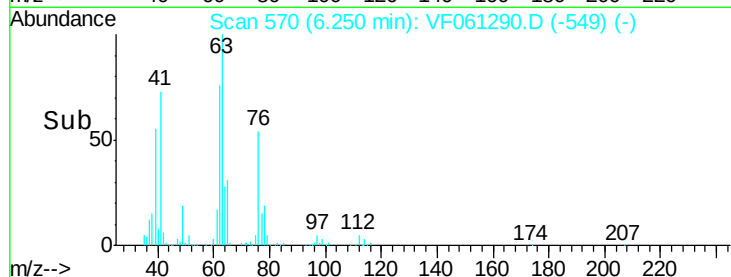
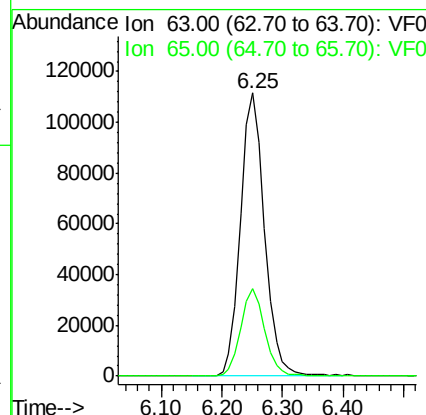
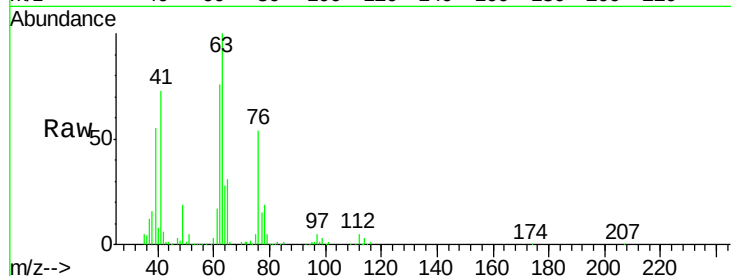
#45
 1,2-Dichloropropane
 Concen: 137.532 ug/l
 RT: 6.25 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 309195
 Ion Ratio Lower Upper
 63 100
 65 30.9 25.1 37.7

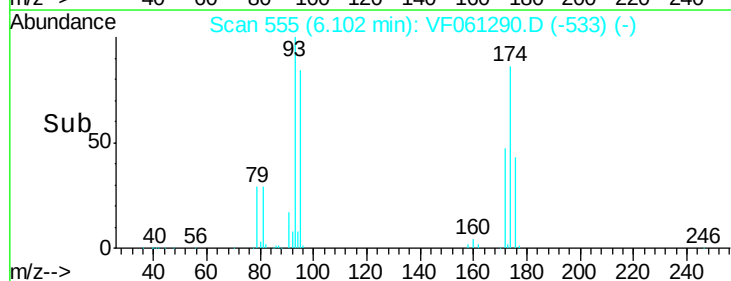
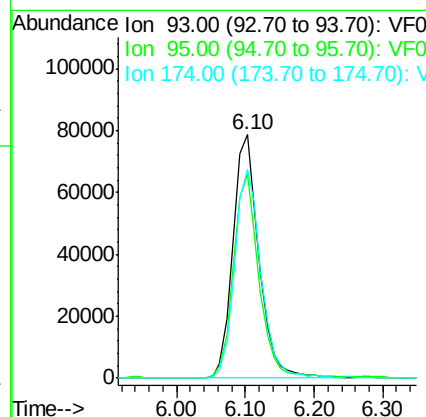
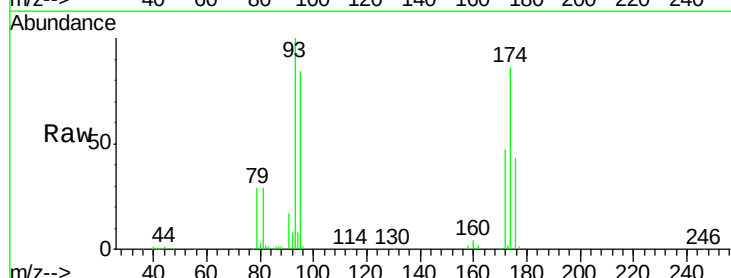
Manual Integrations
 APPROVED

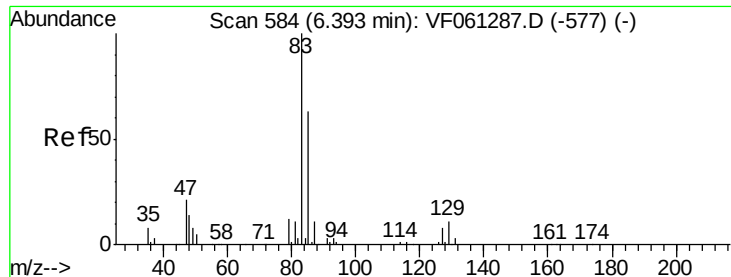
MMDadoda
 1/9/2019 11:45:10 AM



#46
 Dibromomethane
 Concen: 139.649 ug/l
 RT: 6.10 min Scan# 555
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion: 93 Resp: 206586
 Ion Ratio Lower Upper
 93 100
 95 83.8 68.8 103.2
 174 85.9 62.9 94.3





#47

Bromodichloromethane

Concen: 133.732 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

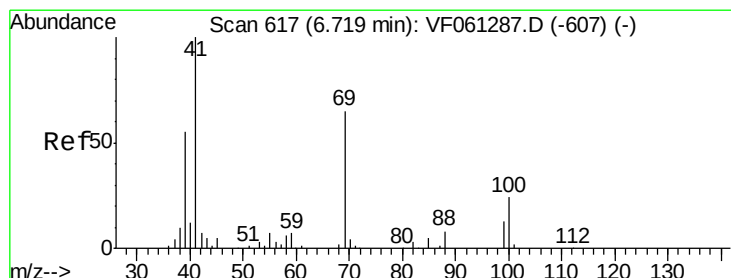
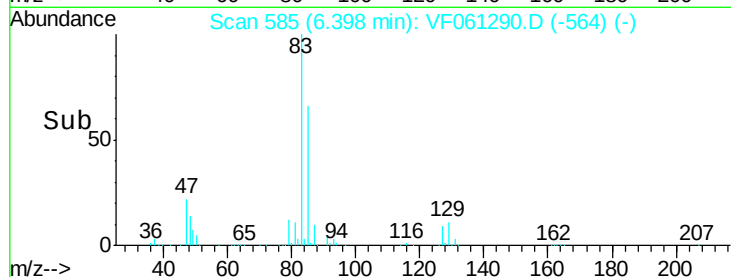
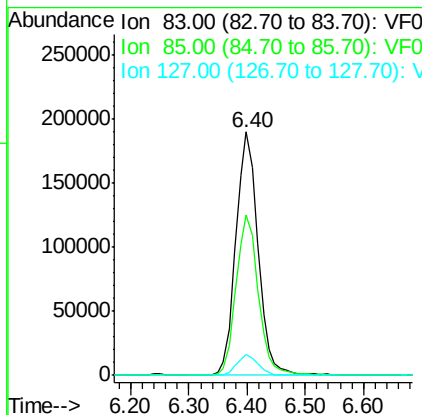
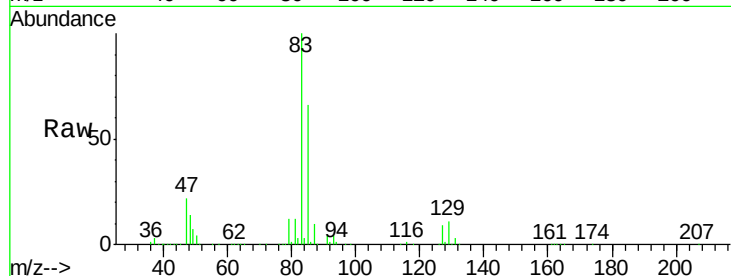
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	503590
Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.4	75.6
127	8.7	6.4	9.6

Manual Integrations
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MMDadoda
1/9/2019 11:45:10 AM



#48

Methyl methacrylate

Concen: 129.177 ug/l

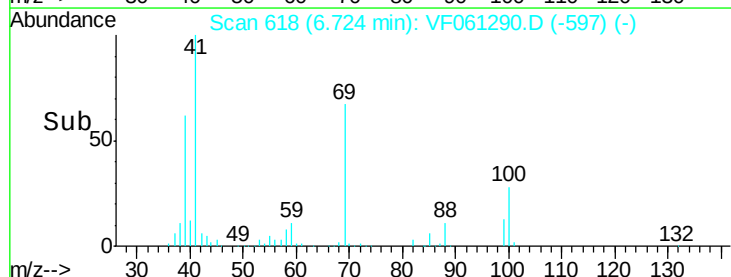
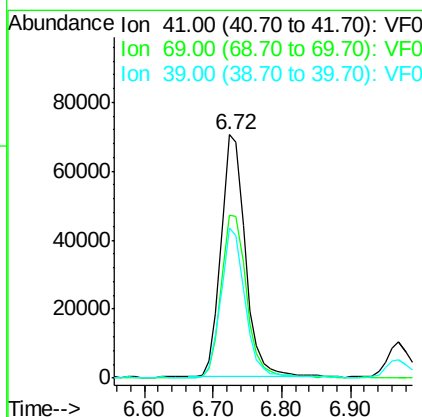
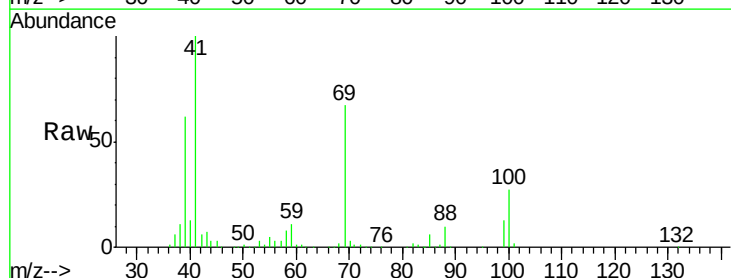
RT: 6.72 min Scan# 618

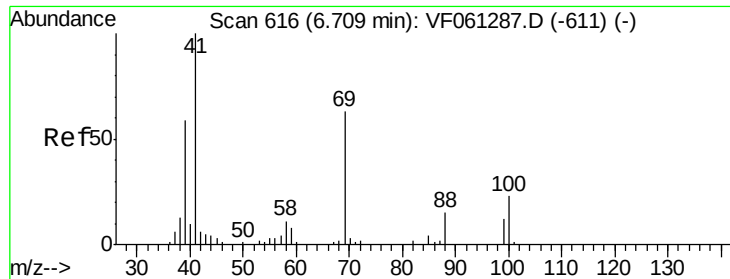
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	41	Resp:	172906
Ion	Ratio	Lower	Upper
41	100		
69	66.8	51.5	77.3
39	61.9	44.1	66.1





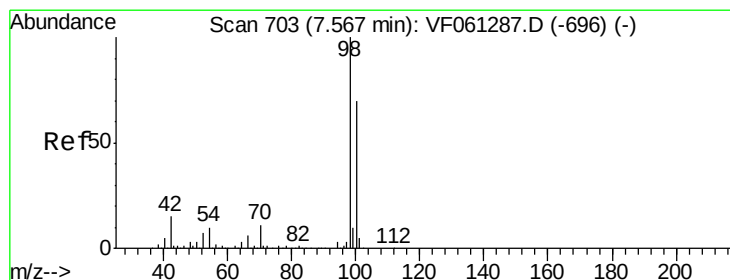
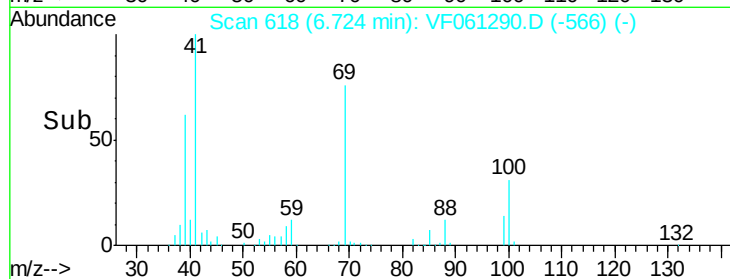
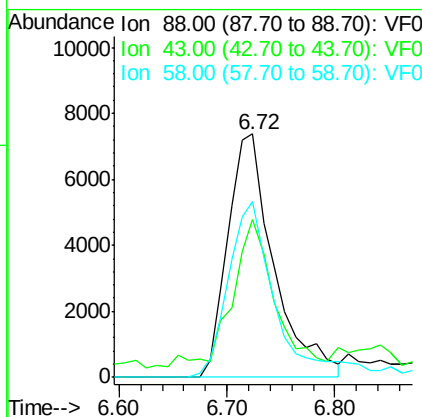
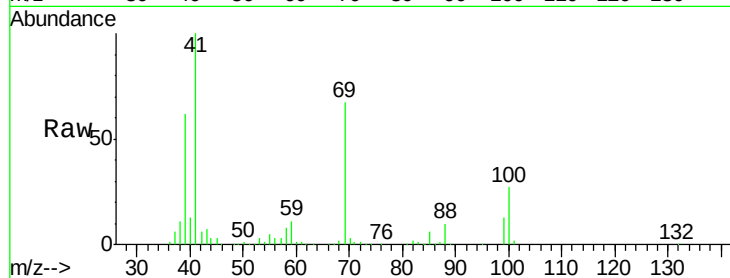
#49
1,4-Dioxane
Concen: 2360.551 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	64.9	38.5	57.7#
58	72.4	57.0	85.4

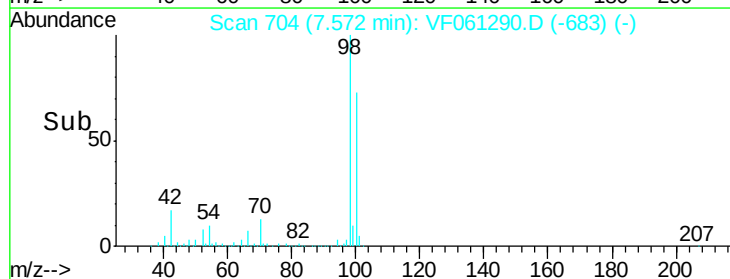
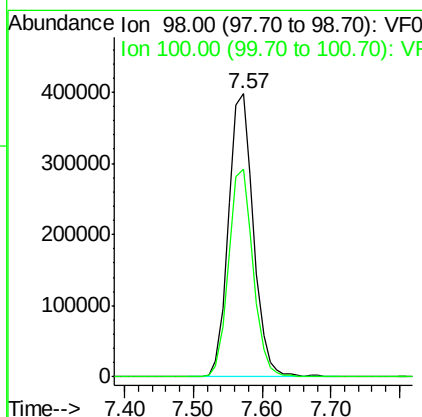
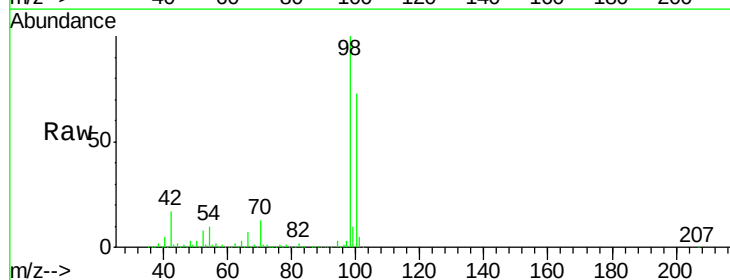
Manual Integrations
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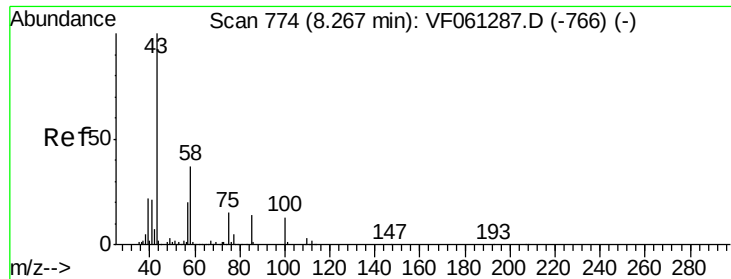
MMDadoda
1/9/2019 11:45:10 AM



#50
Toluene-d8
Concen: 132.621 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.3	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 623.808 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 895591

Ion Ratio Lower Upper

43 100

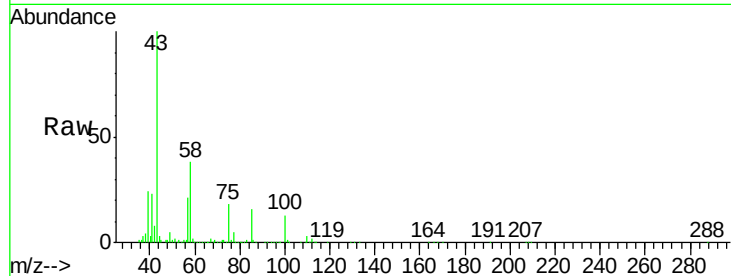
58 37.8 29.6 44.4

Manual Integrations

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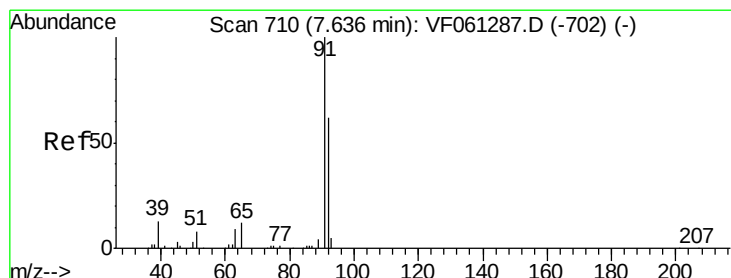
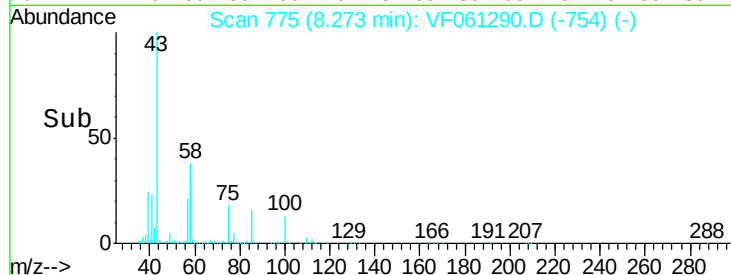
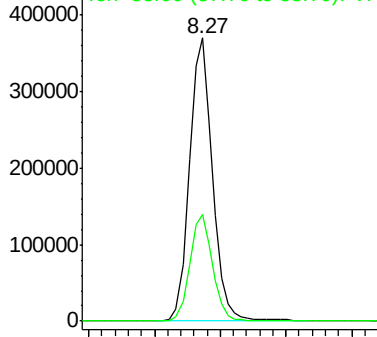
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 131.884 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061290.D

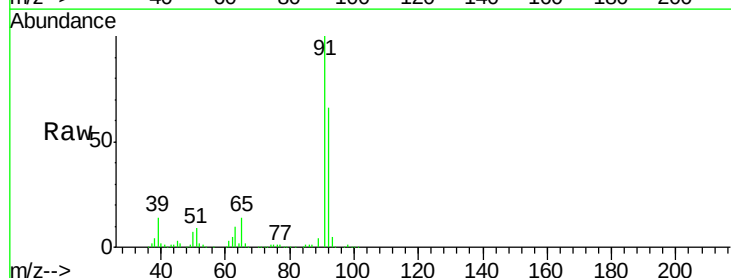
Acq: 8 Jan 2019 16:55

Tgt Ion: 92 Resp: 758309

Ion Ratio Lower Upper

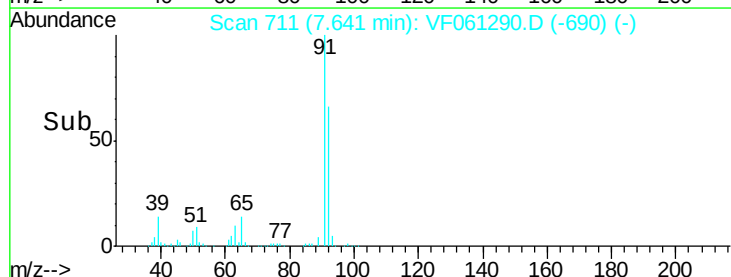
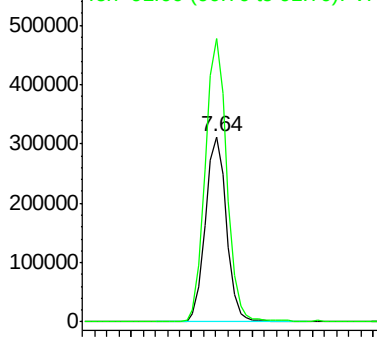
92 100

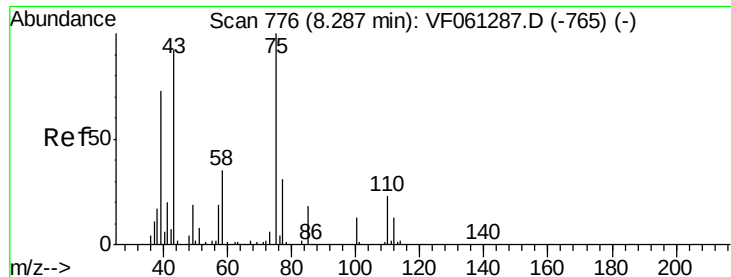
91 152.7 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 126.897 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tot Ion: 75 Resp: 389545

Ion Ratio Lower Upper

75 100

77 33.0 24.7 37.1

Instrument :

MSVOA_F

ClientSampleId :

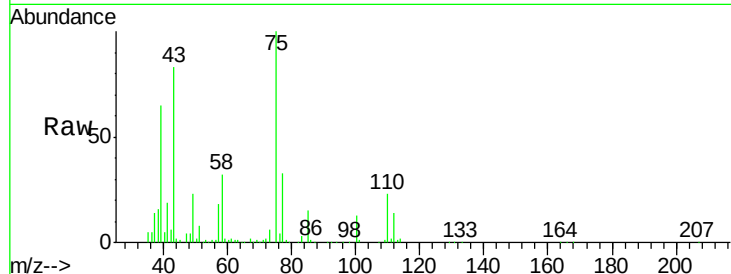
VSTDIC150

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.29

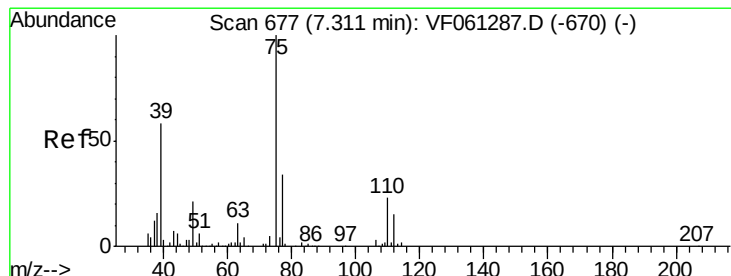
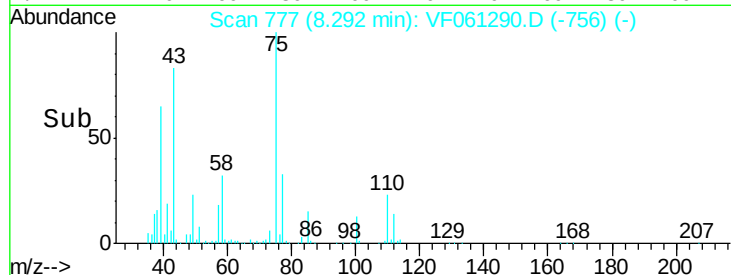
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 135.724 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

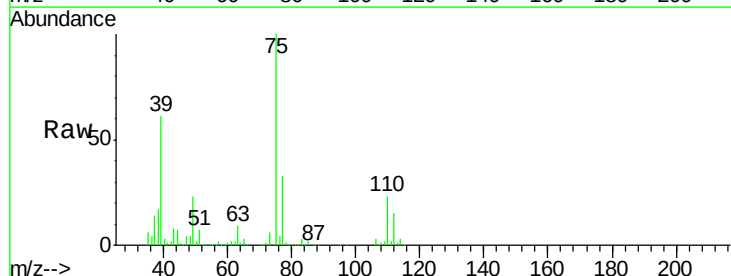
Tgt Ion: 75 Resp: 529542

Ion Ratio Lower Upper

75 100

77 33.0 27.3 40.9

39 60.8 46.3 69.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.32

250000

200000

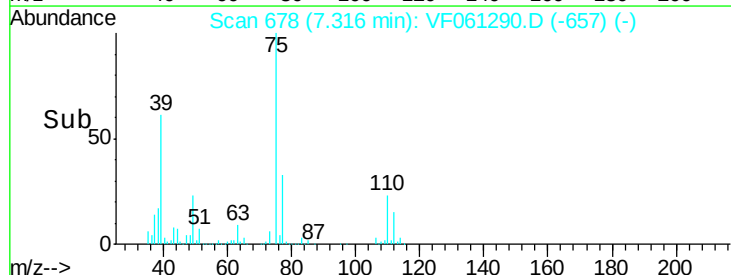
150000

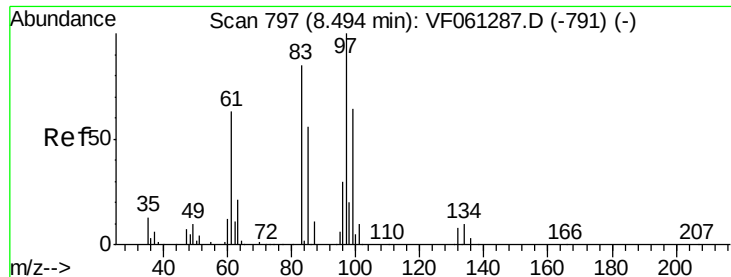
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 138.648 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

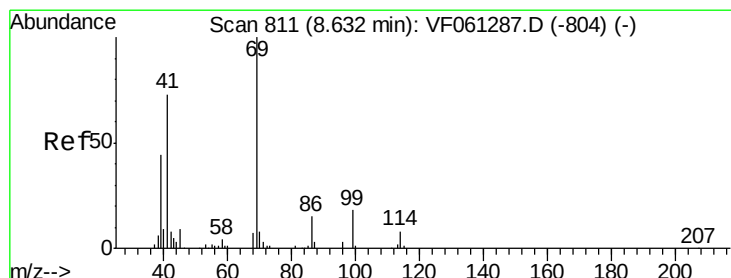
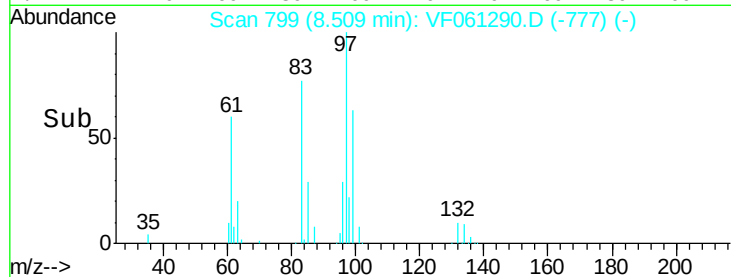
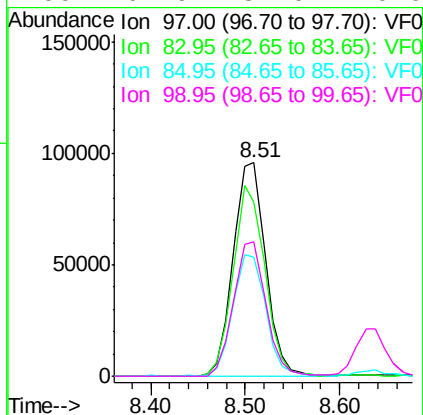
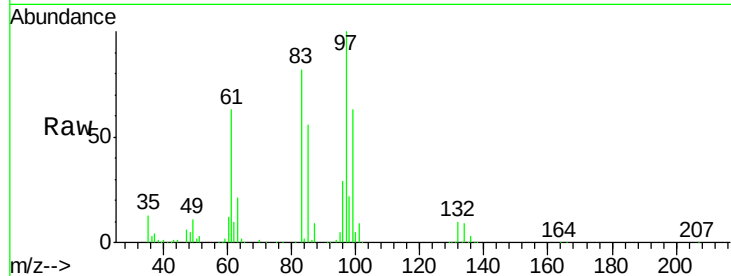
ClientSampleId :

VSTDIC150

Tot Ion:	97	Resp:	229257
Ion	Ratio	Lower	Upper
97	100		
83	81.7	67.8	101.6
85	55.7	45.1	67.7
99	62.9	51.0	76.6

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#56

Ethyl methacrylate

Concen: 137.314 ug/l

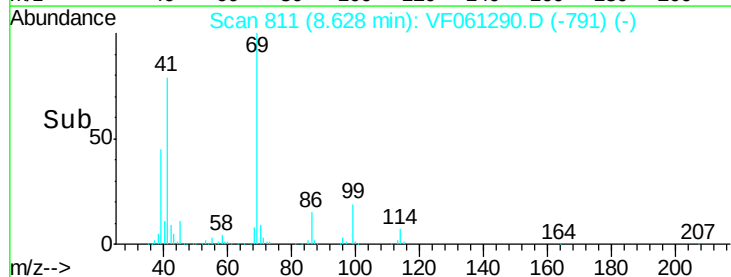
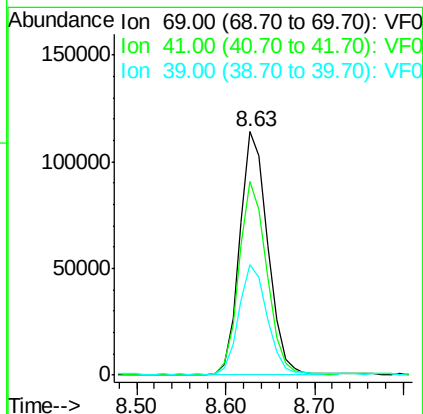
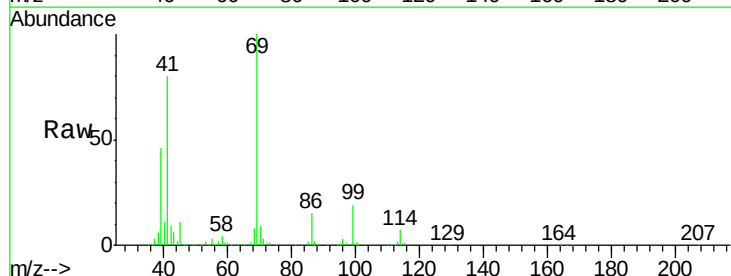
RT: 8.63 min Scan# 811

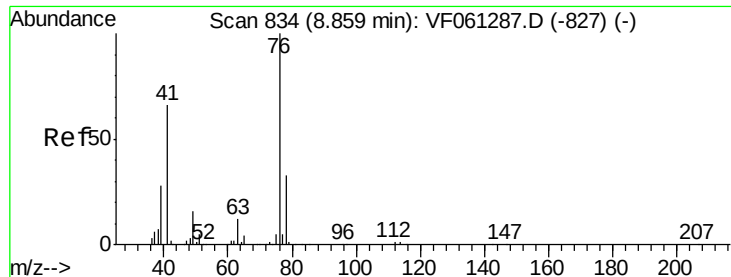
Delta R.T. -0.00 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	69	Resp:	250931
Ion	Ratio	Lower	Upper
69	100		
41	79.5	59.0	88.4
39	45.6	35.3	52.9





#57

1,3-Dichloropropane

Concen: 128.953 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 400820

Ion Ratio Lower Upper

76 100

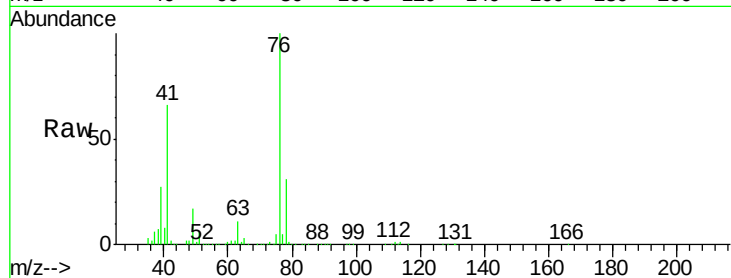
78 31.4 26.8 40.2

Manual Integrations

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MMDadoda

1/9/2019 11:45:10 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.86

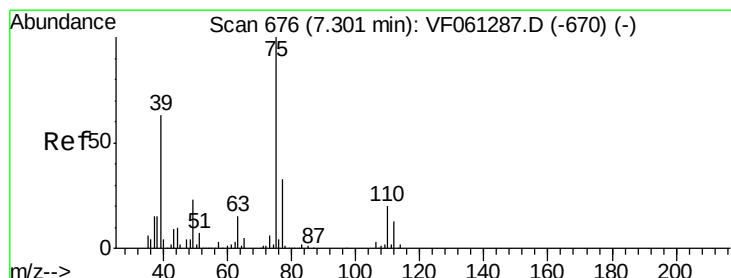
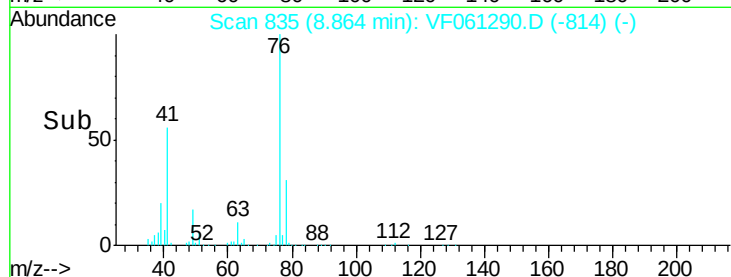
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 244.215 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.01 min

Lab File: VF061290.D

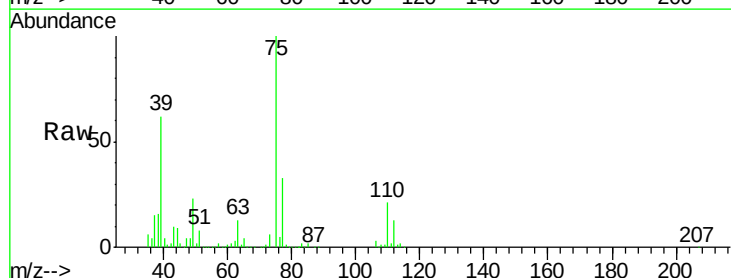
Acq: 8 Jan 2019 16:55

Tgt Ion: 63 Resp: 54196

Ion Ratio Lower Upper

63 100

106 25.4 16.5 24.7#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.31

25000

20000

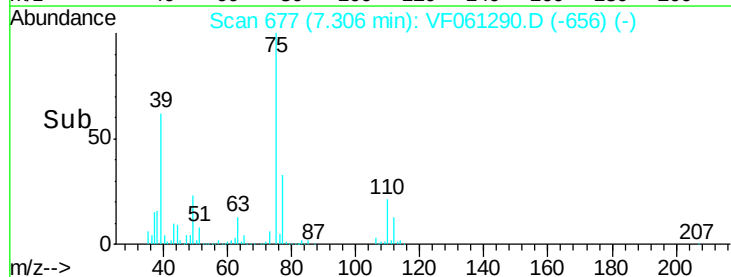
15000

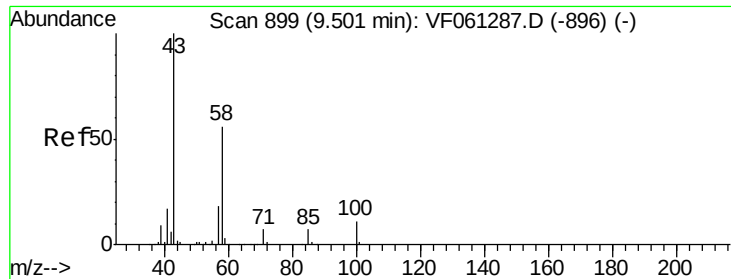
10000

5000

0

Time-->





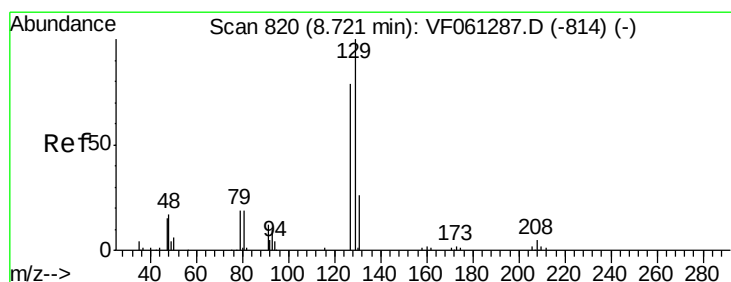
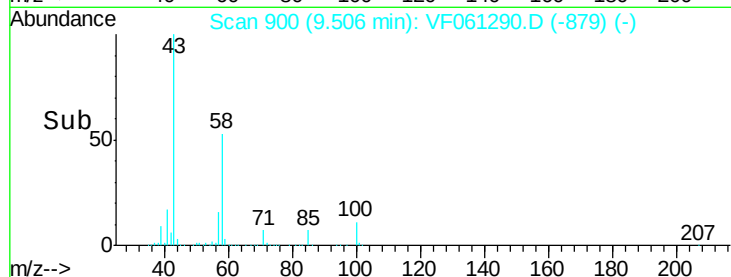
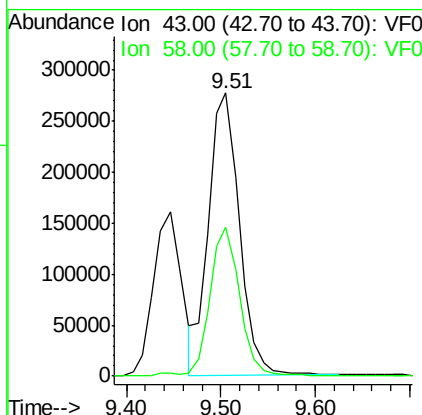
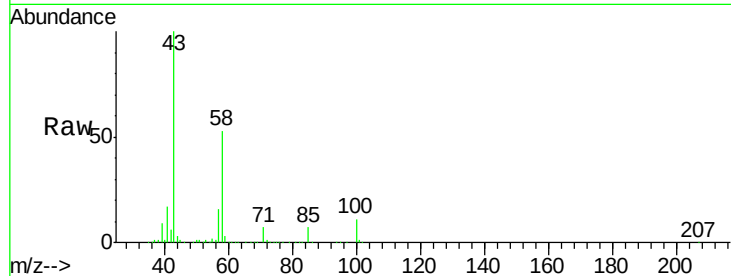
#59
2-Hexanone
Concen: 604.285 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 628078
Ion Ratio Lower Upper
43 100
58 52.8 25.6 76.8

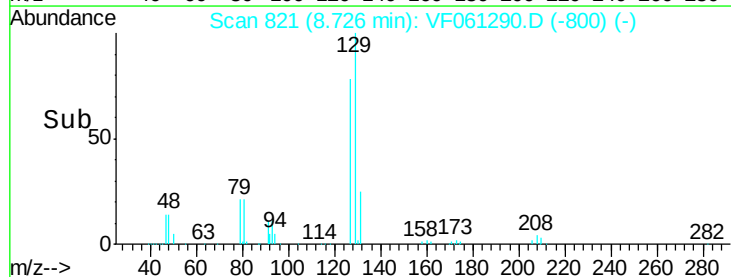
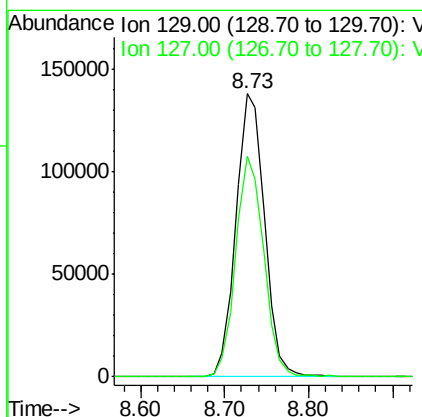
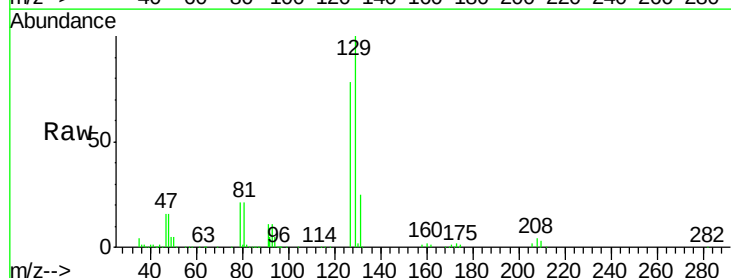
Manual Integrations
APPROVED

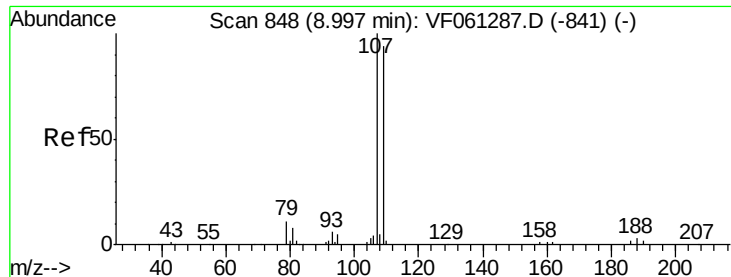
MMDadoda
1/9/2019 11:45:10 AM



#60
Dibromochloromethane
Concen: 139.697 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion: 129 Resp: 328109
Ion Ratio Lower Upper
129 100
127 77.8 39.4 118.1





#61

1,2-Dibromoethane

Concen: 135.816 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:107 Resp: 242371

Ion Ratio Lower Upper

107 100

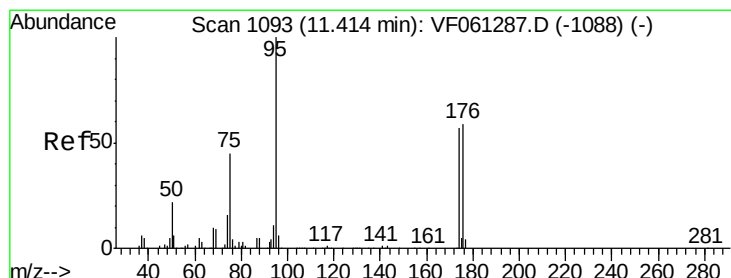
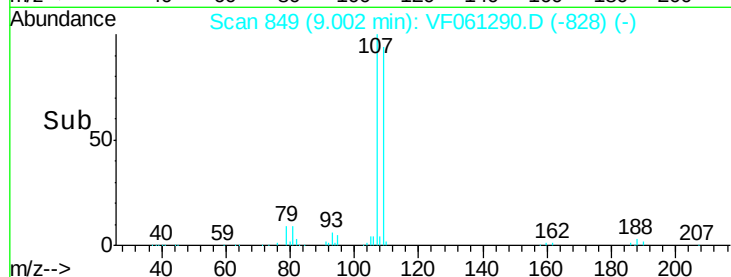
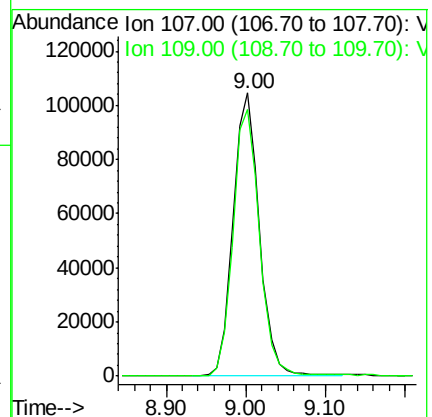
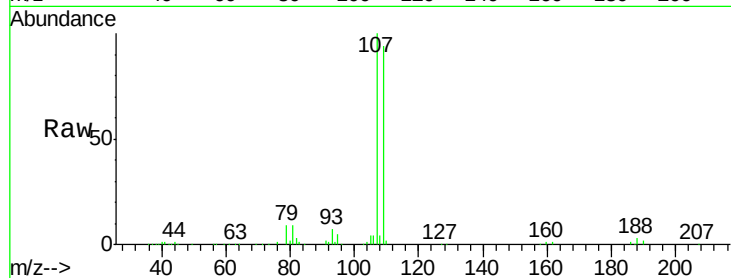
109 94.1 75.1 112.7

Manual Integrations

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1/9/2019 11:45:10 AM



#62

4-Bromofluorobenzene

Concen: 130.493 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

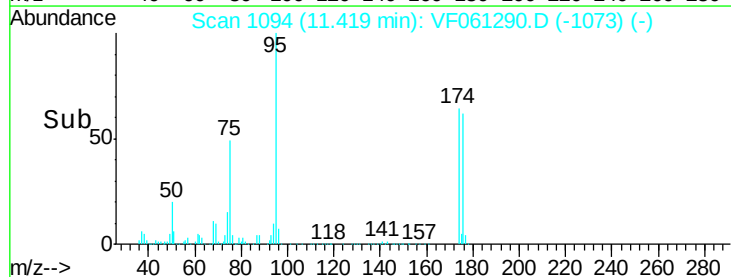
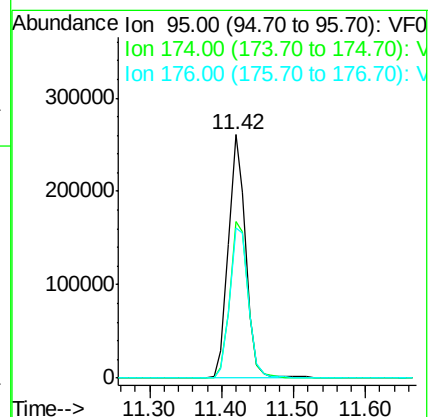
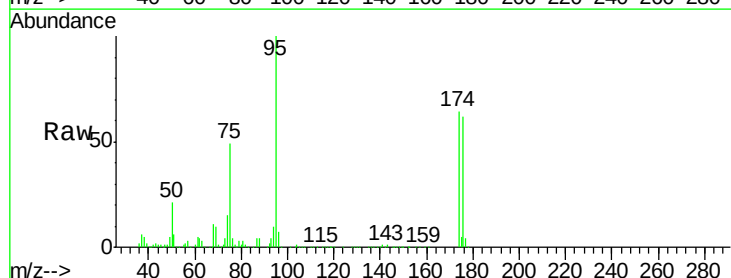
Tgt Ion: 95 Resp: 434889

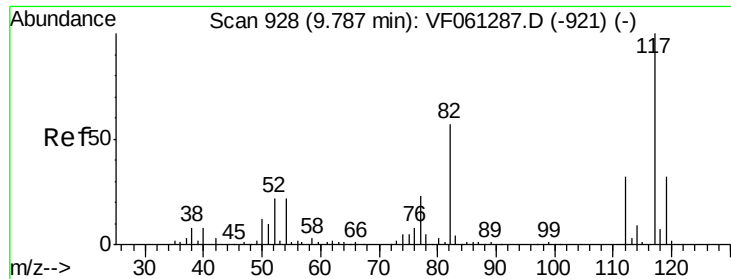
Ion Ratio Lower Upper

95 100

174 64.1 0.0 114.2

176 61.7 0.0 117.8





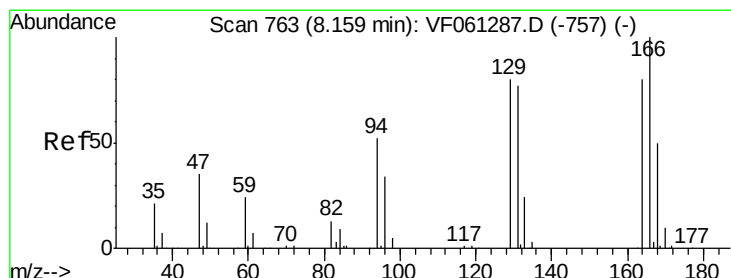
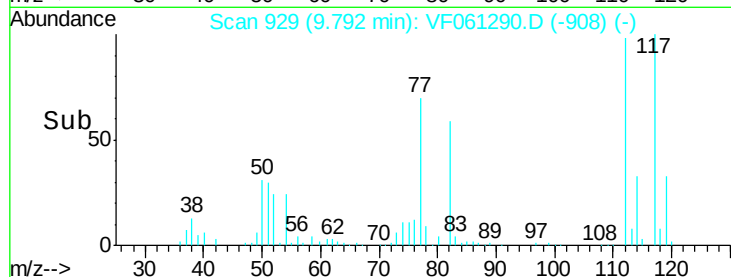
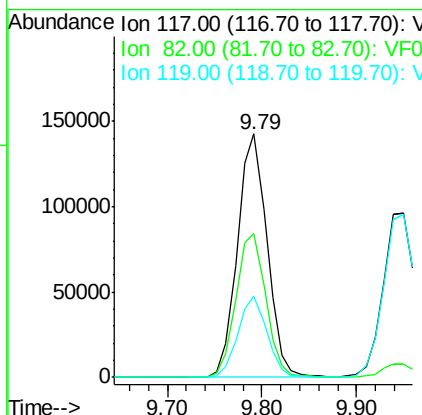
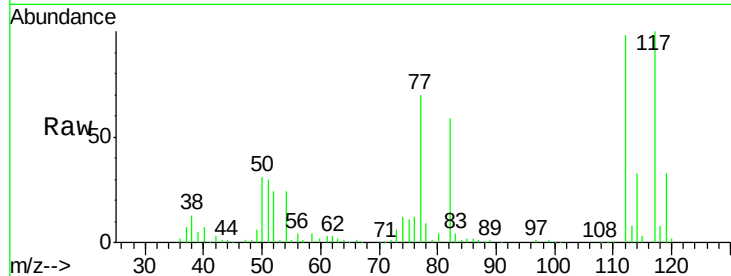
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
117	100	310494		
82	58.9	45.3	67.9	
119	33.3	25.4	38.0	

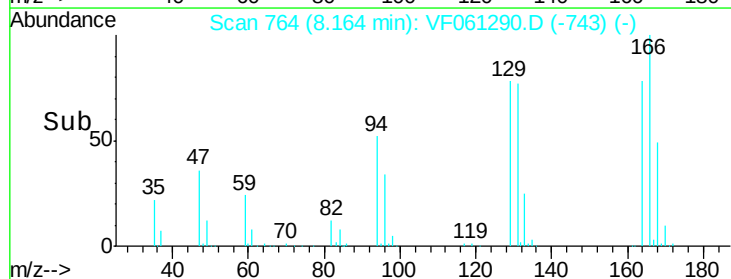
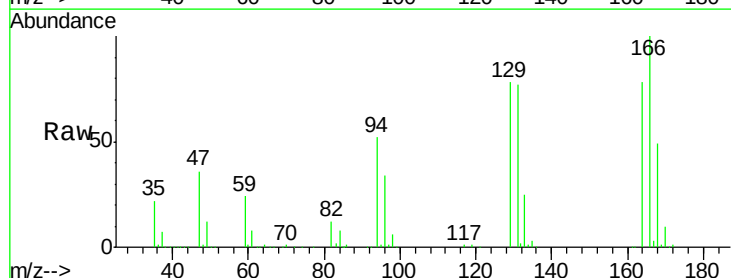
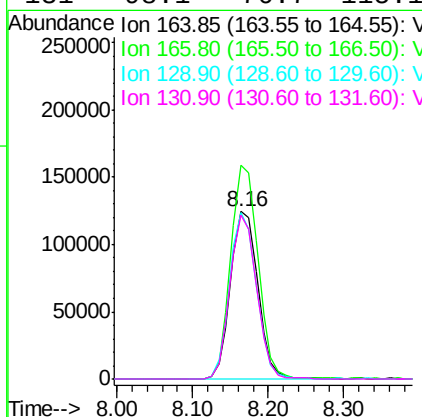
Manual Integrations
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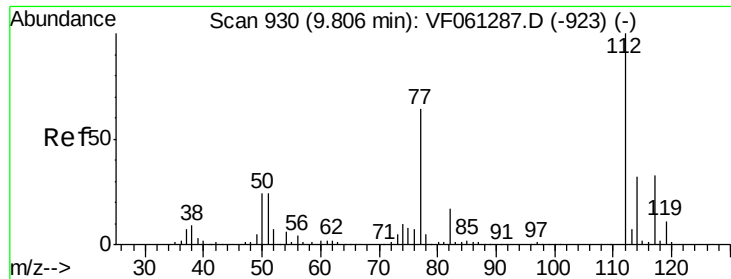
MMDadoda
1/9/2019 11:45:10 AM



#64
Tetrachloroethene
Concen: 130.383 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	310244		
166	127.8	100.1	150.1	
129	99.4	80.1	120.1	
131	98.1	76.7	115.1	





#65

Chlorobenzene

Concen: 135.073 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:112 Resp: 852803

Ion Ratio Lower Upper

112 100

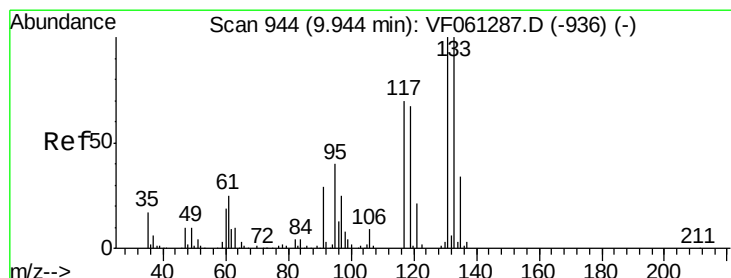
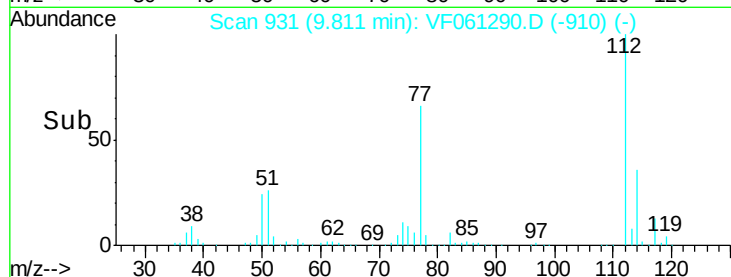
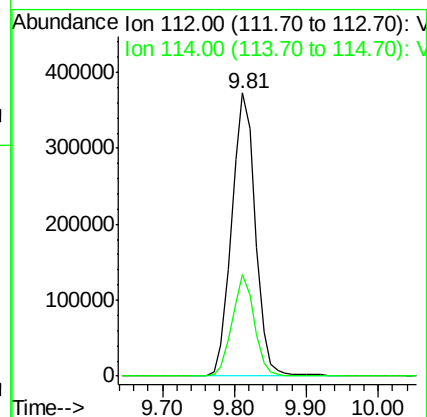
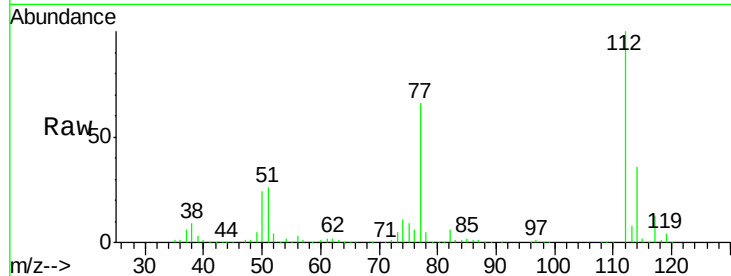
114 35.8 25.8 38.8

Manual Integrations

APPROVED

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#66

1,1,1,2-Tetrachloroethane

Concen: 130.396 ug/l

RT: 9.95 min Scan# 945

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

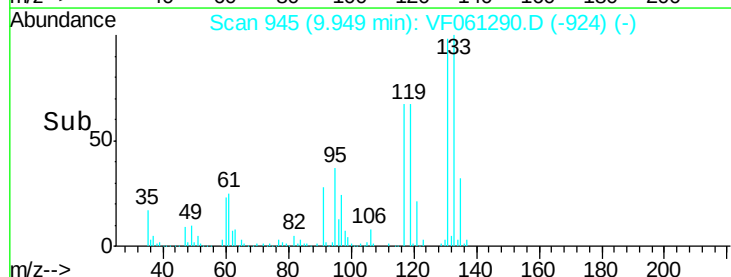
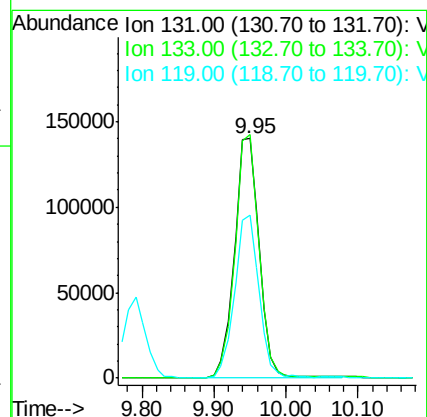
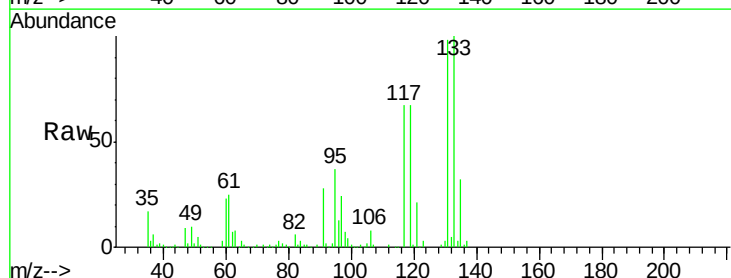
Tgt Ion:131 Resp: 338095

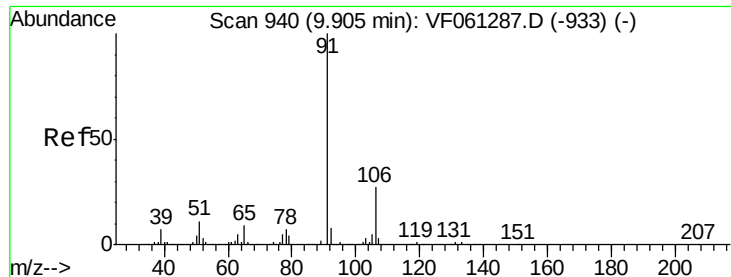
Ion Ratio Lower Upper

131 100

133 101.7 49.9 149.6

119 68.2 33.9 101.6





#67

Ethyl Benzene

Concen: 127.218 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tot Ion: 91 Resp: 1476529

Ion Ratio Lower Upper

91 100

106 31.3 21.4 32.2

Instrument :

MSVOA_F

ClientSampleId :

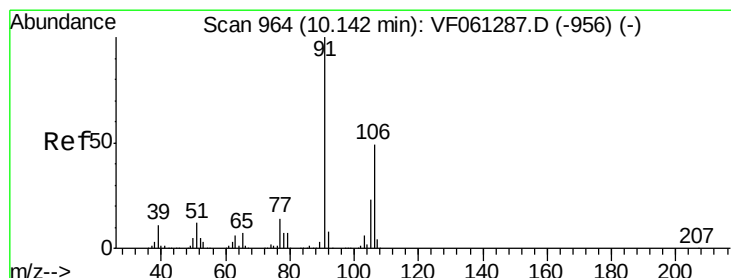
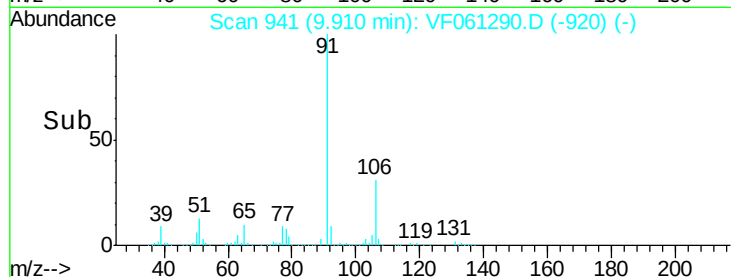
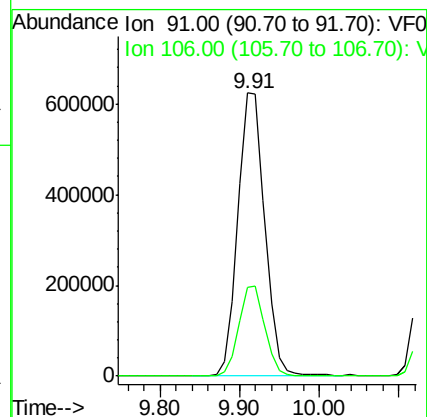
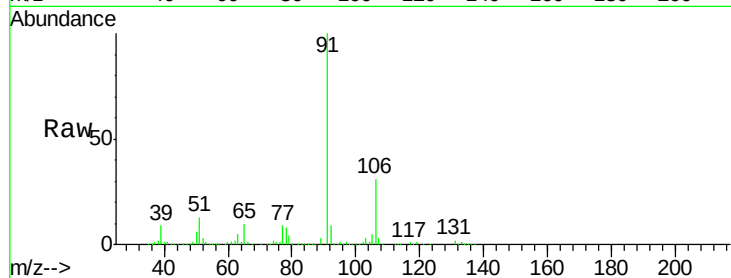
VSTDIC150

Manual Integrations

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#68

m/p-Xylenes

Concen: 246.078 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061290.D

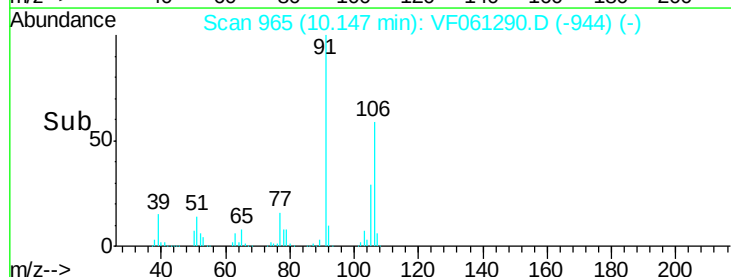
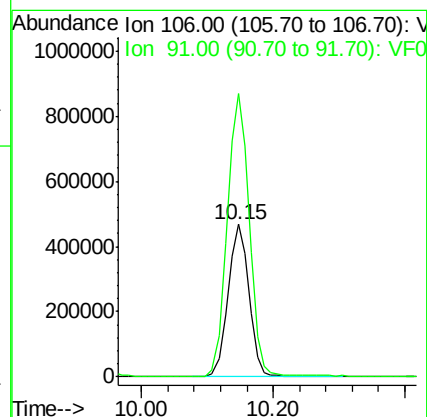
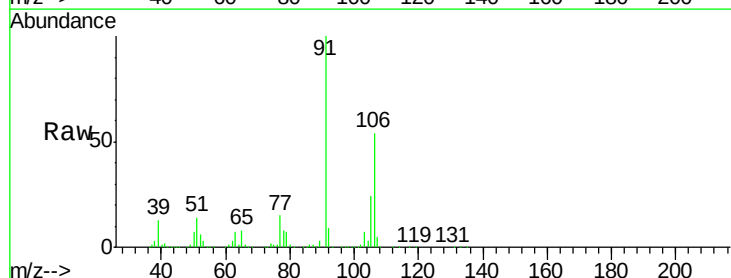
Acq: 8 Jan 2019 16:55

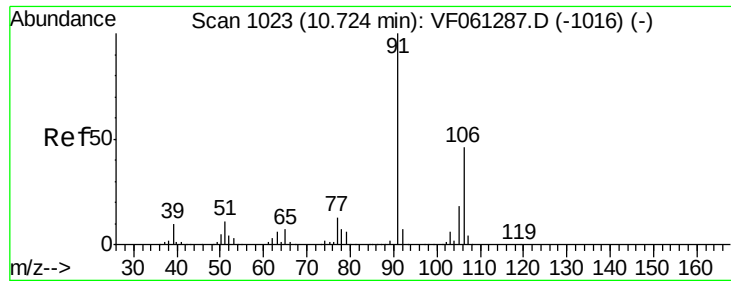
Tgt Ion:106 Resp: 1042292

Ion Ratio Lower Upper

106 100

91 185.4 165.0 247.6





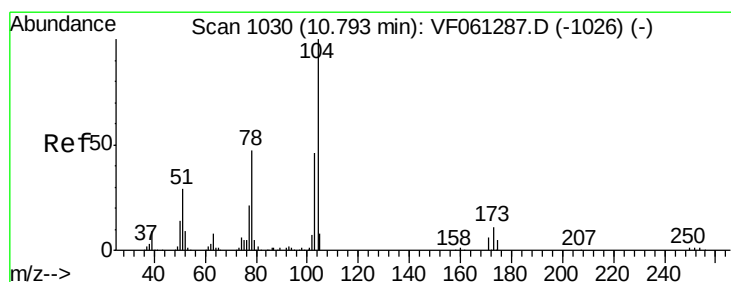
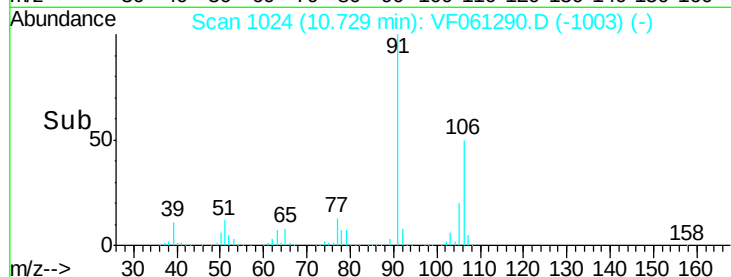
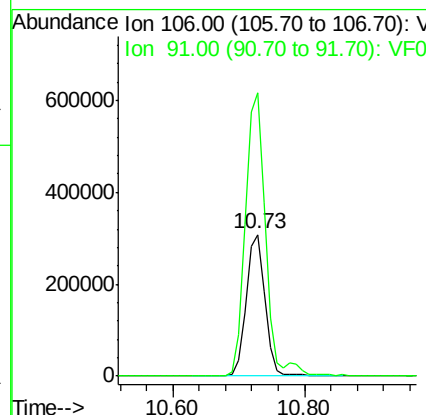
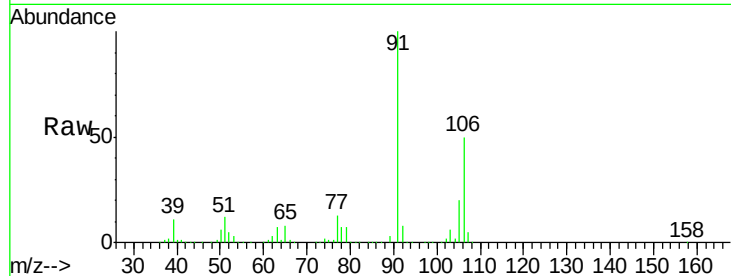
#69
o-Xylene
Concen: 134.431 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	200.3	108.1	615959	324.4	

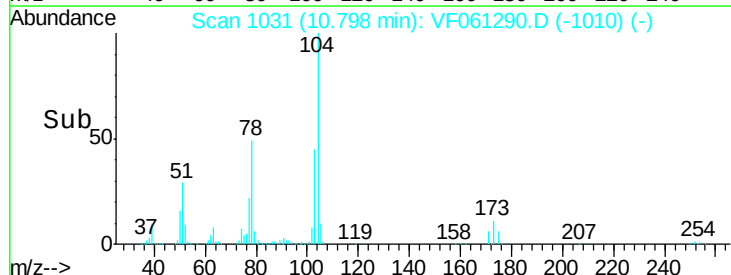
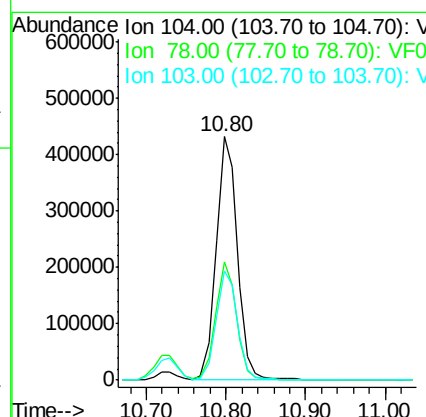
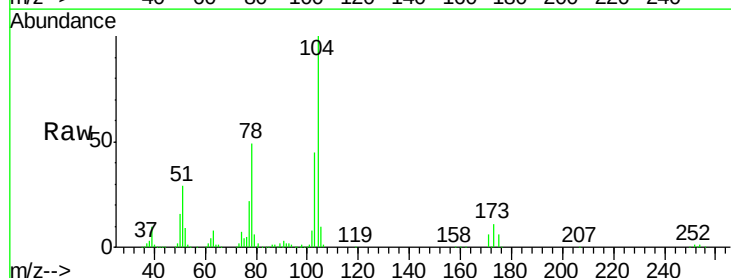
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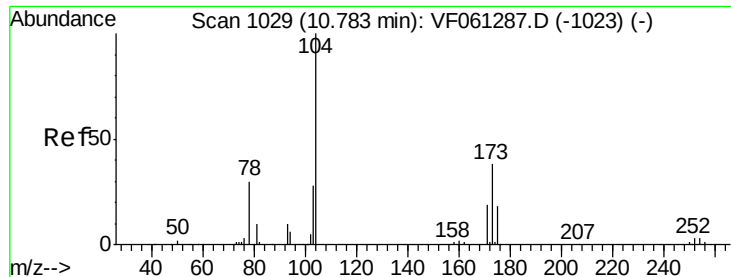
MMDadoda
1/9/2019 11:45:10 AM



#70
Styrene
Concen: 127.631 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	48.7	38.0	805044	57.0	
103	44.9	36.7		55.1	





#71

Bromoform

Concen: 130.248 ug/l

RT: 10.79 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 157227

Ion Ratio Lower Upper

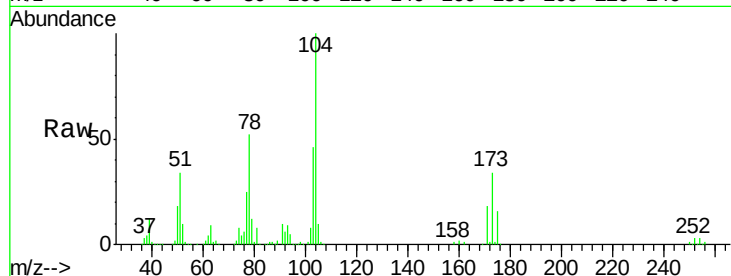
173 100

175 46.6 24.1 72.2

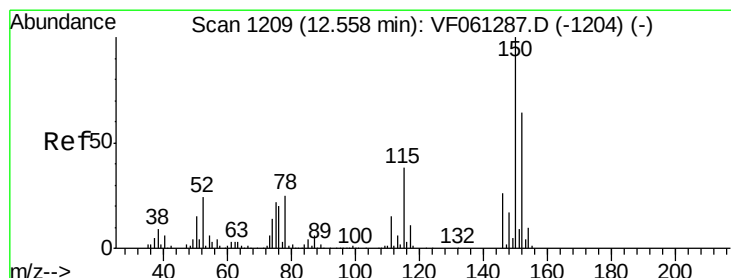
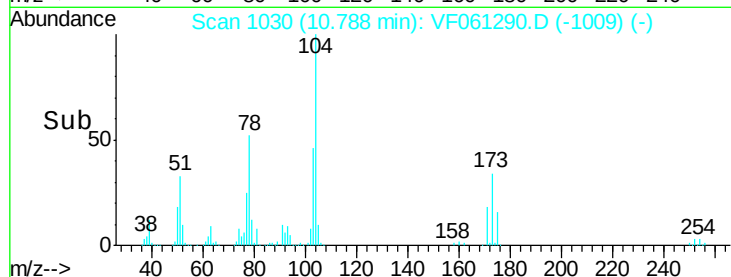
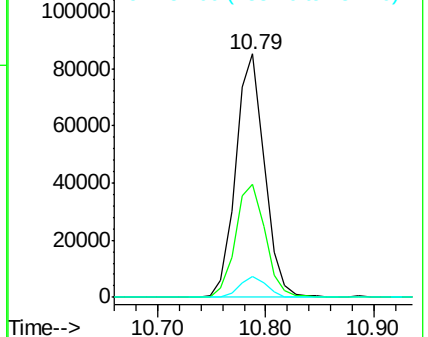
254 8.8 0.0 0.0#

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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

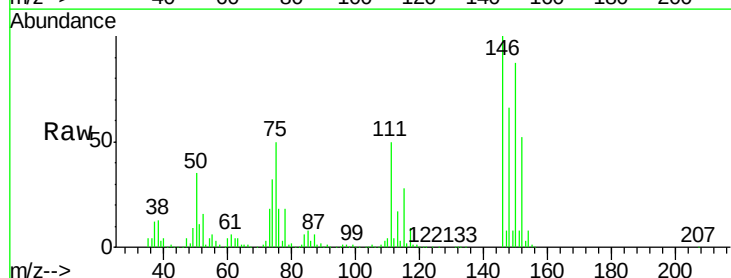
Tgt Ion:152 Resp: 167319

Ion Ratio Lower Upper

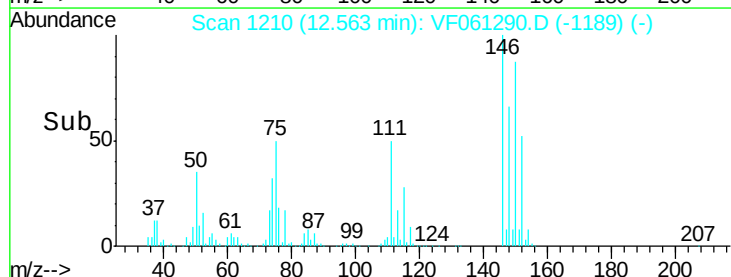
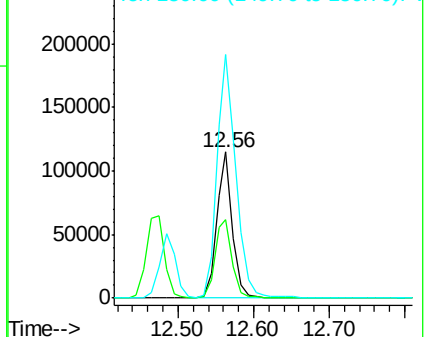
152 100

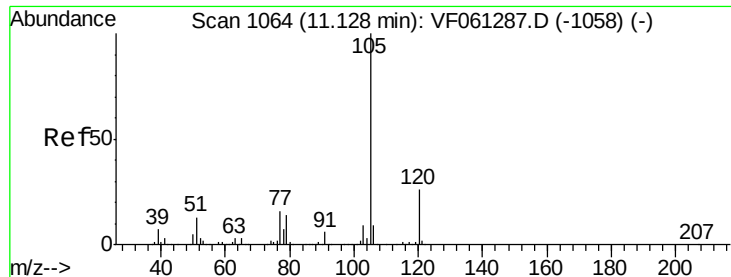
115 53.8 29.6 88.9

150 166.8 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 115.644 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 1643611

Ion Ratio Lower Upper

105 100

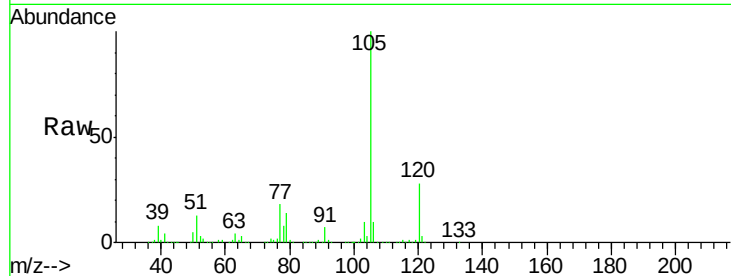
120 28.1 12.9 38.7

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1000000

800000

600000

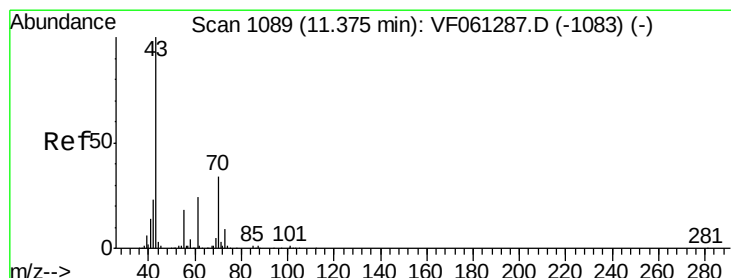
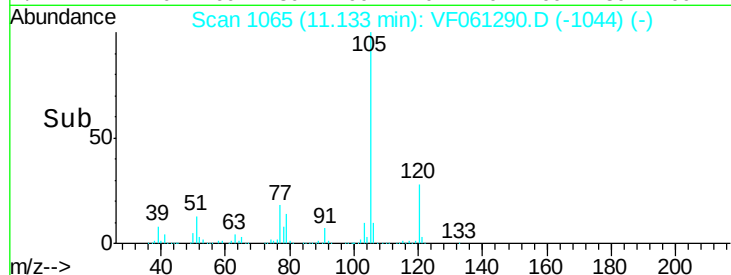
400000

200000

0

11.00 11.10 11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 108.414 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion: 43 Resp: 389019

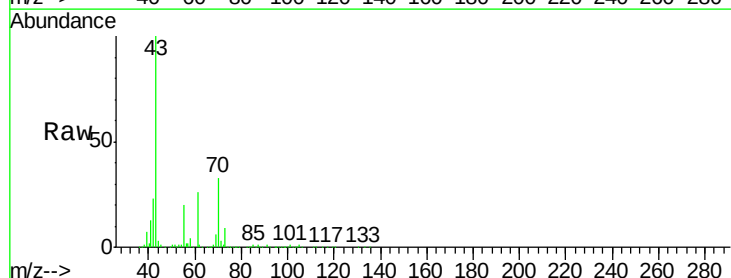
Ion Ratio Lower Upper

43 100

70 33.3 27.4 41.0

55 20.3 14.7 22.1

61 25.7 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

400000

300000

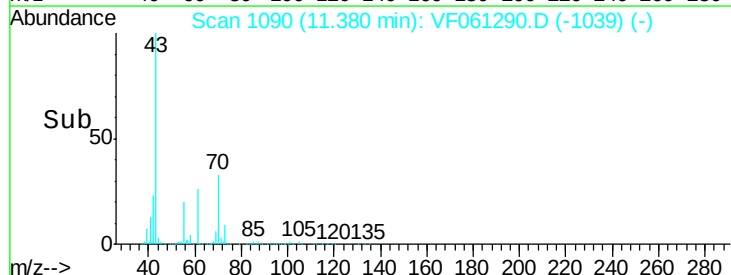
200000

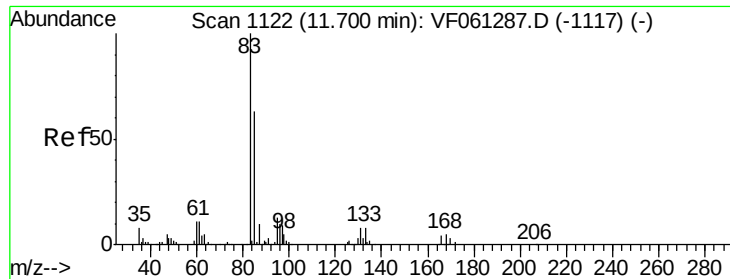
100000

0

11.30 11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 121.296 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

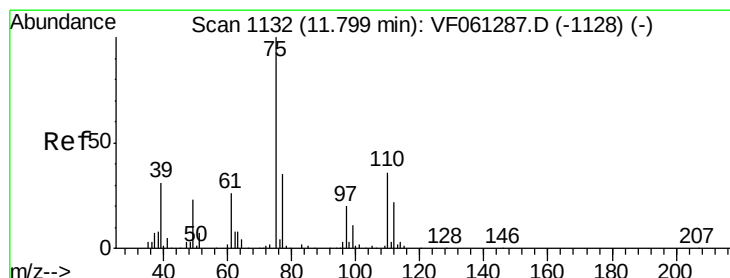
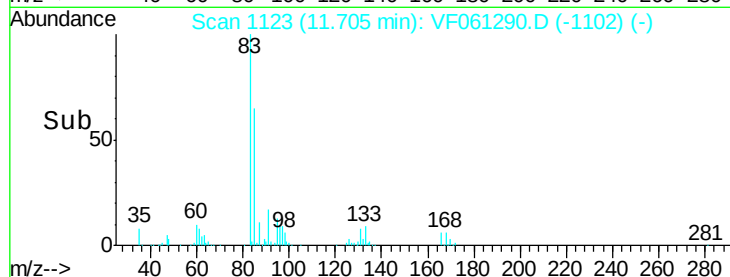
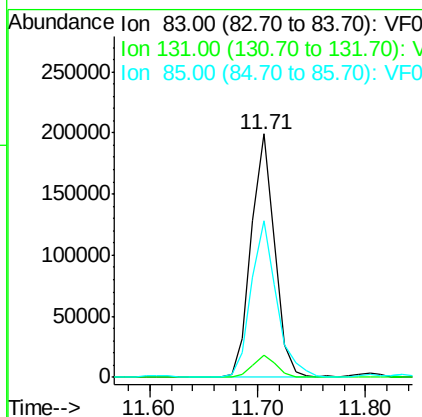
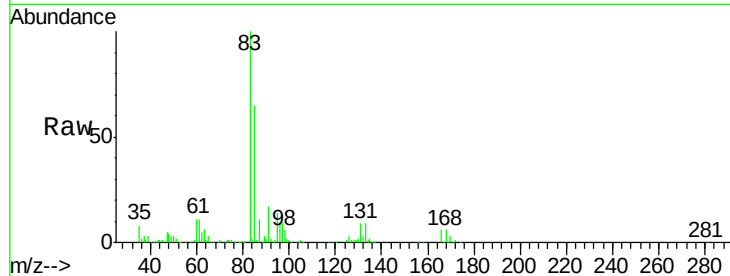
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	301123
Ion Ratio	Lower	Upper	
83	100		
131	9.0	3.9	11.7
85	64.5	31.6	94.7

Manual Integrations
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1/9/2019 11:45:10 AM



#76

1,2,3-Trichloropropane

Concen: 116.382 ug/l

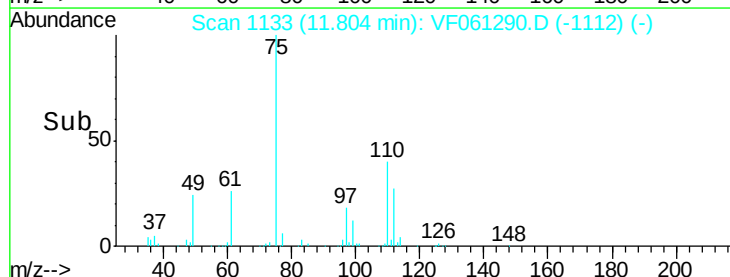
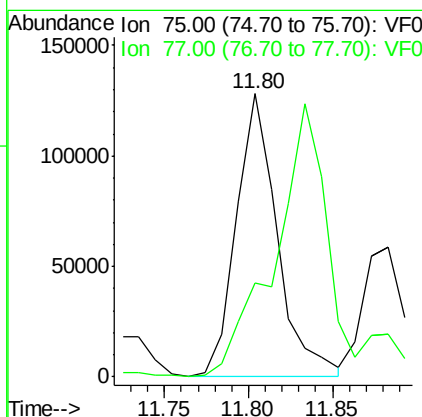
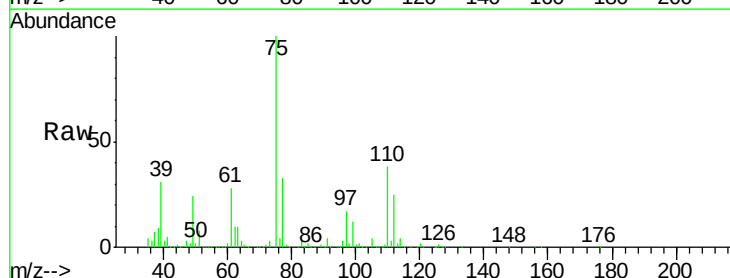
RT: 11.80 min Scan# 1133

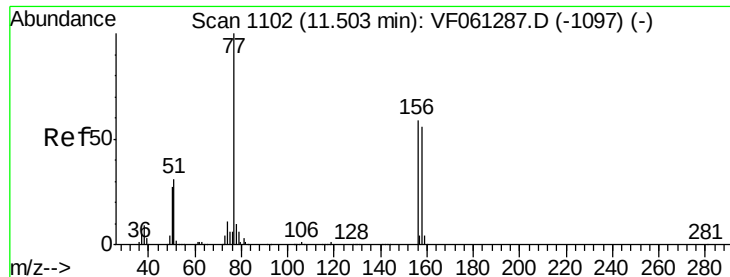
Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	75	Resp:	214482
Ion Ratio	Lower	Upper	
75	100		
77	33.1	17.5	52.5





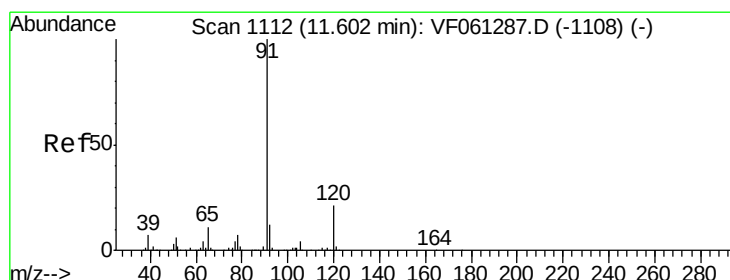
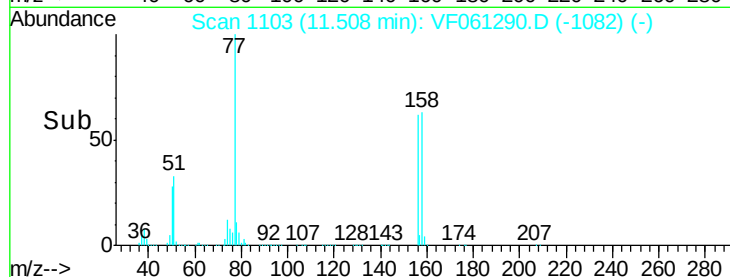
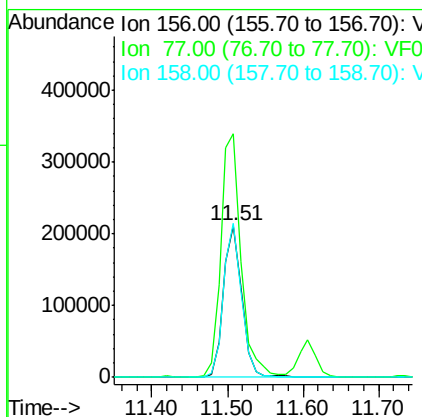
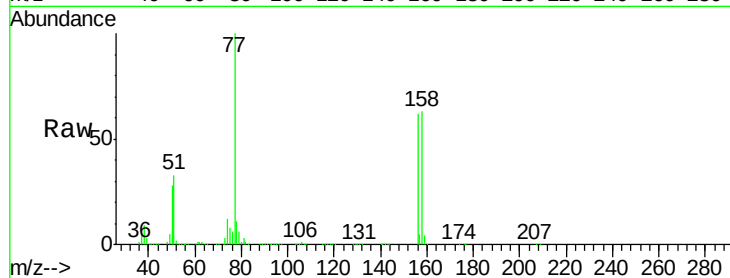
#77
Bromobenzene
Concen: 120.197 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	160.6	84.3	252.9		
158	101.4	47.1	141.3		

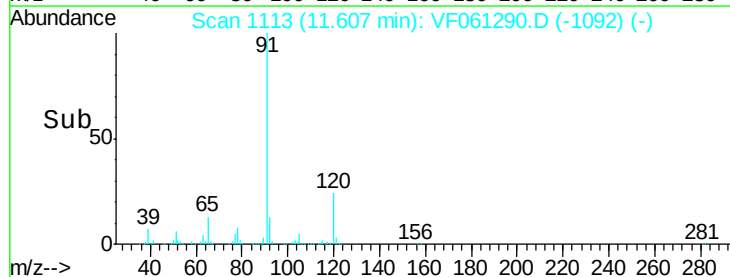
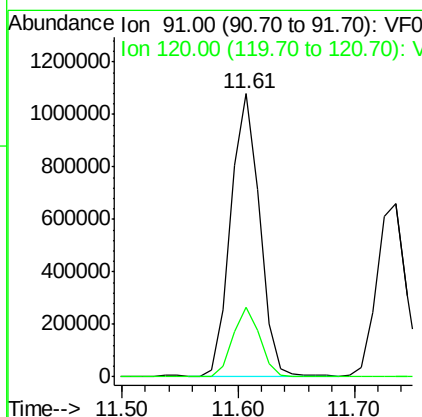
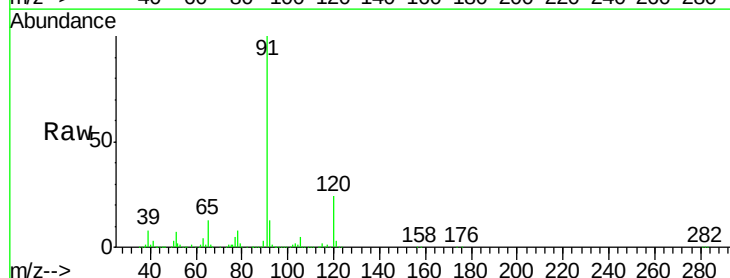
Manual Integrations
APPROVED

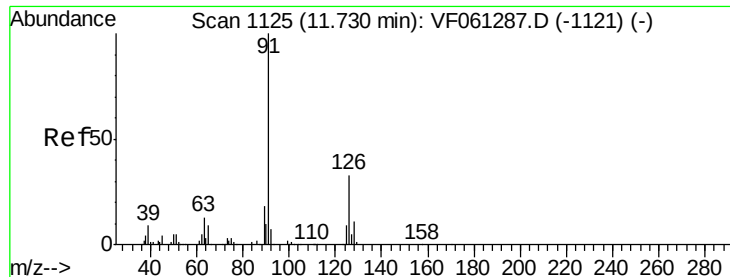
MMDadoda
1/9/2019 11:45:10 AM



#78
n-propylbenzene
Concen: 109.355 ug/l
RT: 11.61 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	24.5	10.7	32.1		





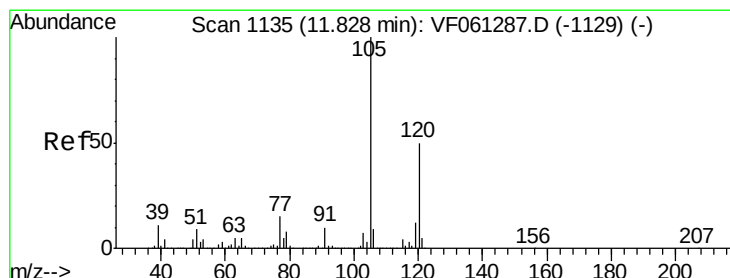
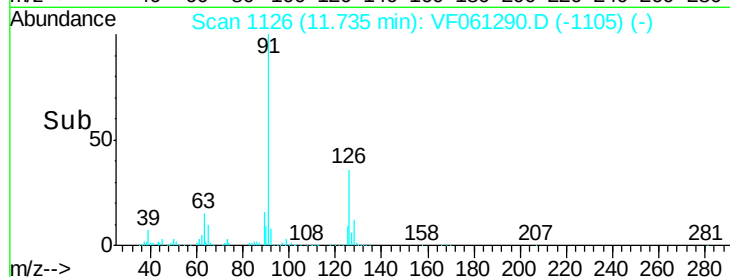
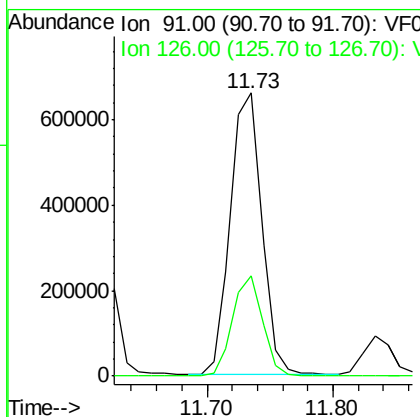
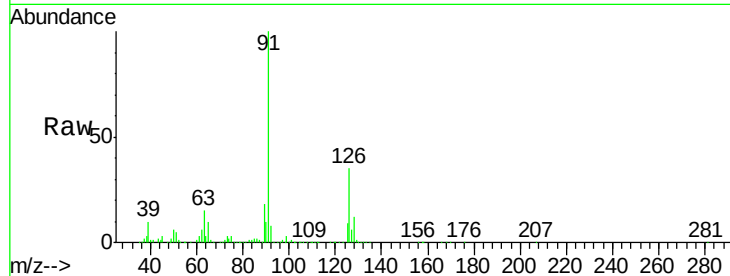
#79
2-Chlorotoluene
Concen: 116.094 ug/l
RT: 11.73 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 1135841
Ion Ratio Lower Upper
91 100
126 35.5 16.6 49.8

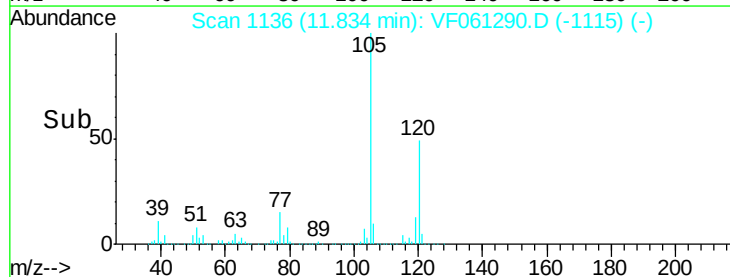
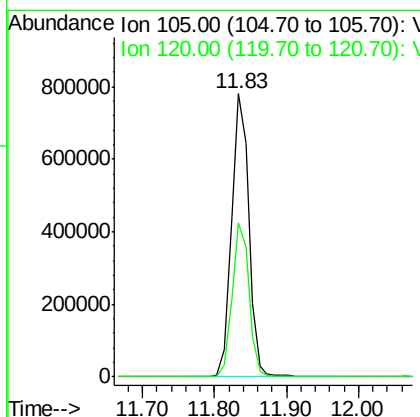
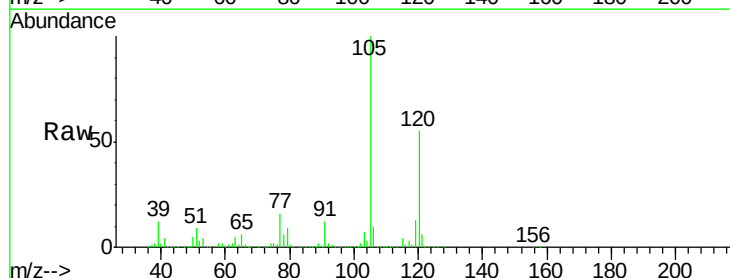
Manual Integrations
APPROVED

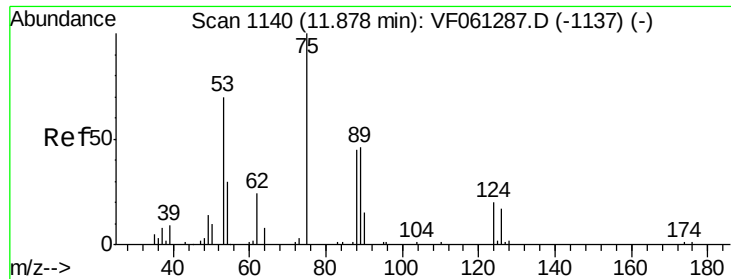
MMDadoda
1/9/2019 11:45:10 AM



#80
1,3,5-Trimethylbenzene
Concen: 113.973 ug/l
RT: 11.83 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion: 105 Resp: 1307723
Ion Ratio Lower Upper
105 100
120 54.6 25.2 75.6





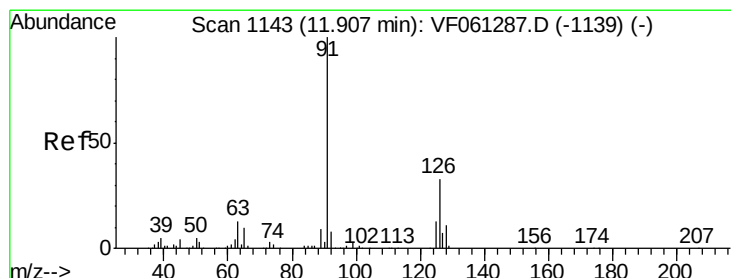
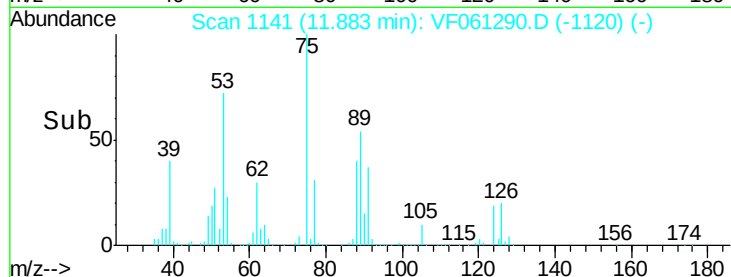
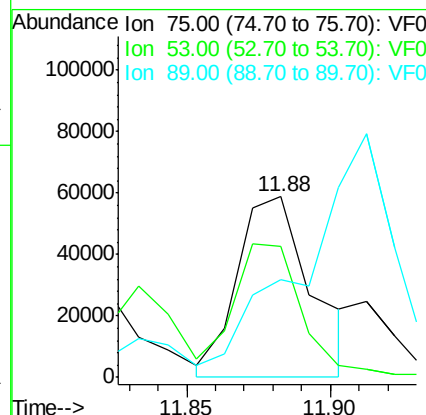
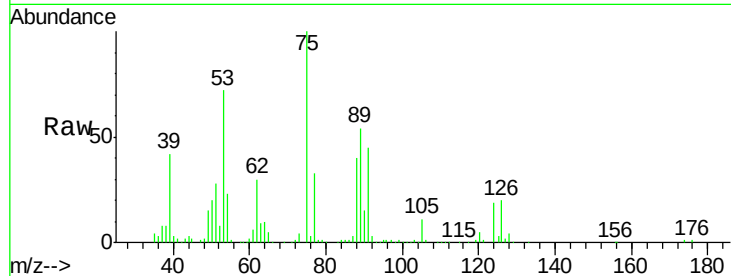
#81
trans-1,4-Dichloro-2-butene
Concen: 125.152 ug/l m
RT: 11.88 min Scan# 1141
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	72.4	62.2	93.2
89	54.2	40.2	60.4

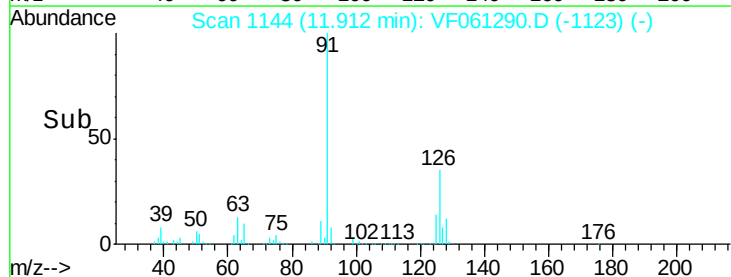
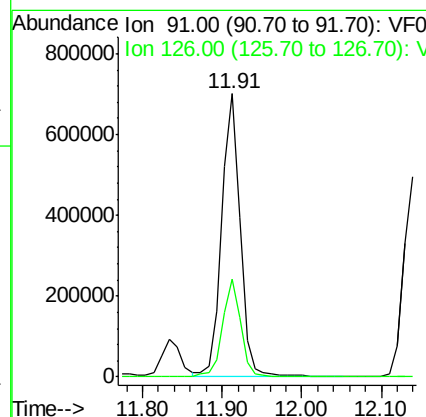
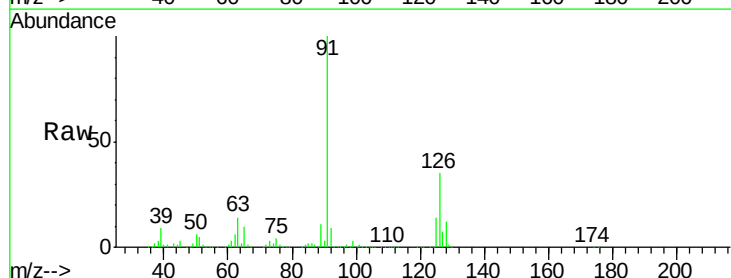
Manual Integrations
APPROVED

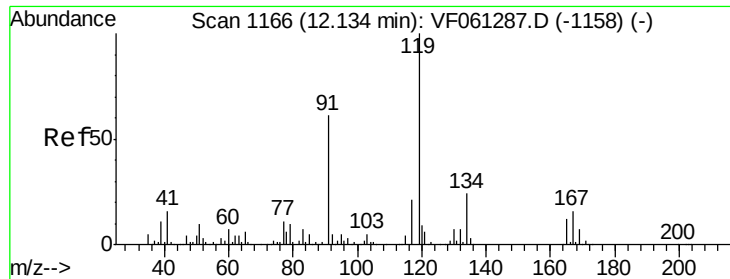
MMDadoda
1/9/2019 11:45:10 AM



#82
4-Chlorotoluene
Concen: 115.990 ug/l
RT: 11.91 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VF061290.D
Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.4	49.4





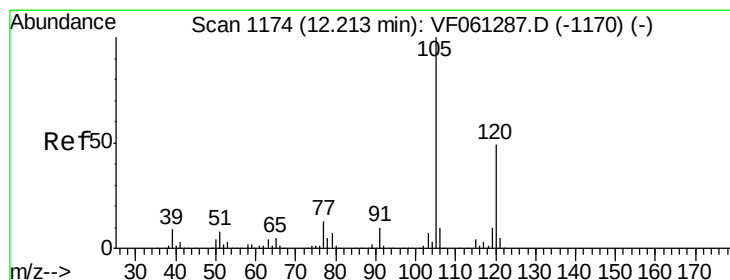
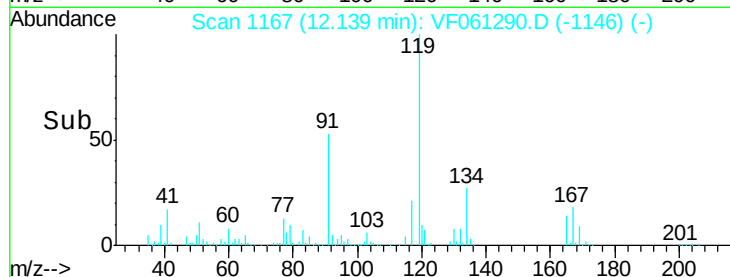
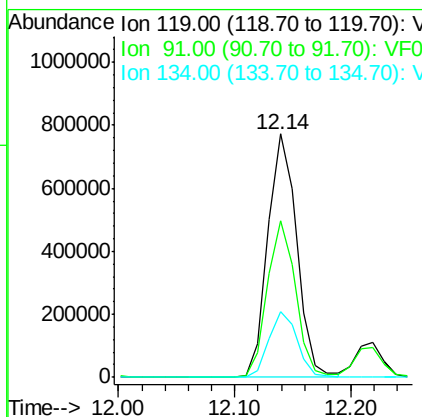
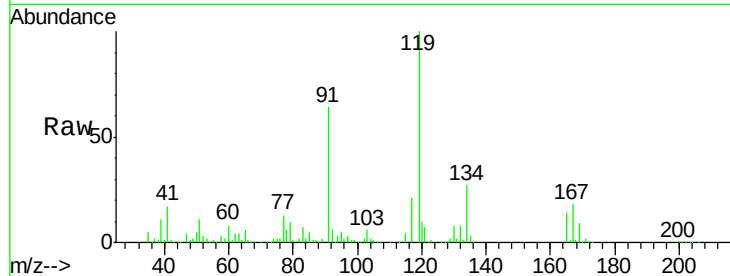
#83
 tert-Butylbenzene
 Concen: 113.009 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion:119 Resp: 1336933
 Ion Ratio Lower Upper
 119 100
 91 64.2 30.8 92.4
 134 27.0 11.9 35.9

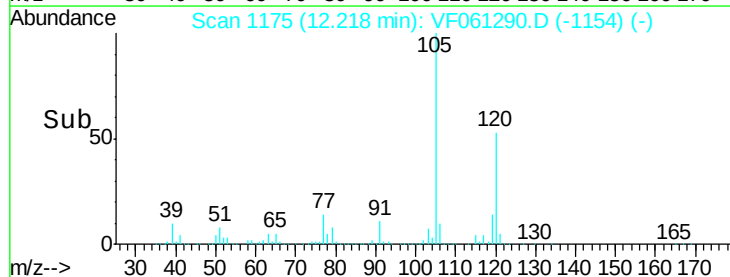
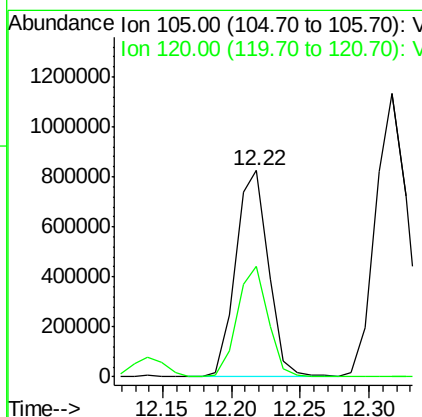
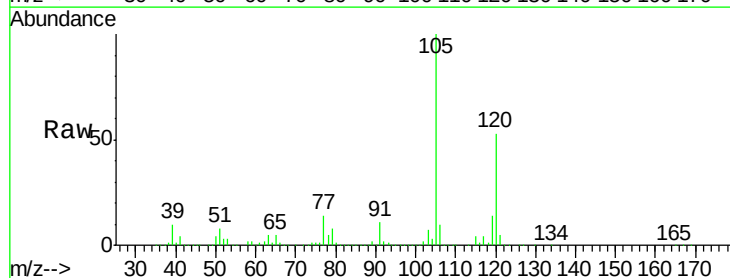
Manual Integrations
 APPROVED

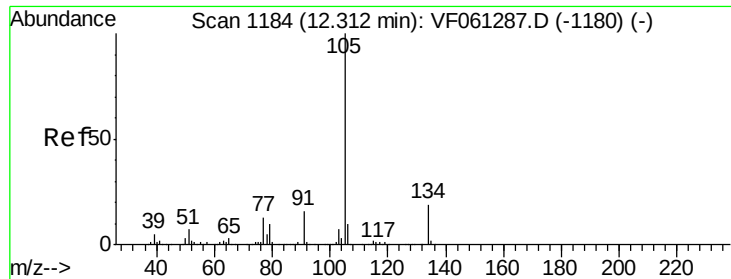
MMDadoda
 1/9/2019 11:45:10 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 119.614 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion:105 Resp: 1366302
 Ion Ratio Lower Upper
 105 100
 120 53.4 24.7 74.1





#85

sec-Butylbenzene

Concen: 114.423 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 1836183

Ion Ratio Lower Upper

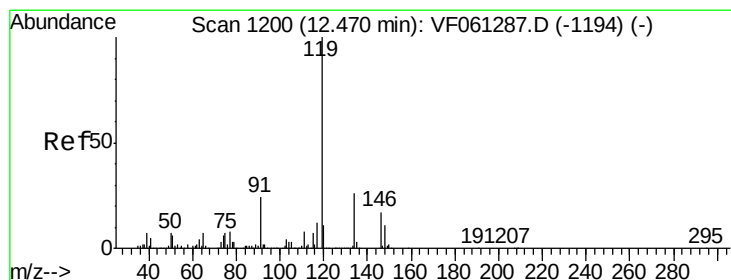
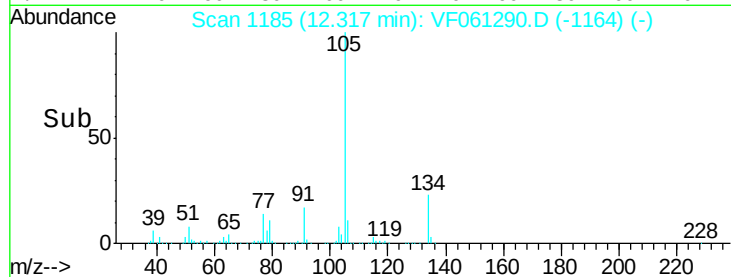
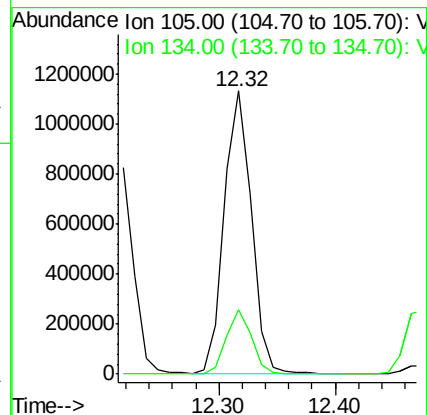
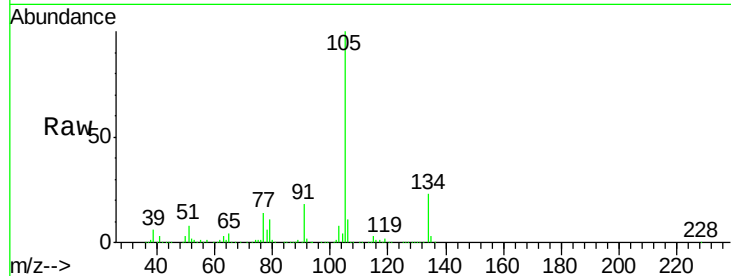
105 100

134 22.6 9.7 28.9

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 111.286 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

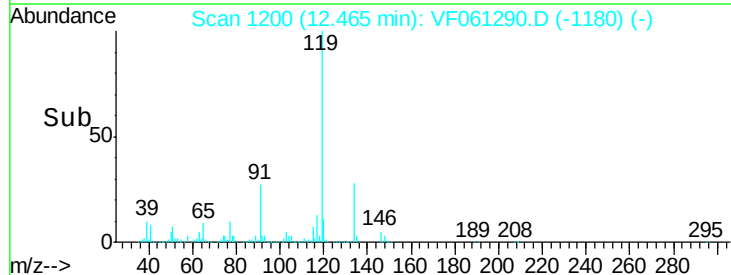
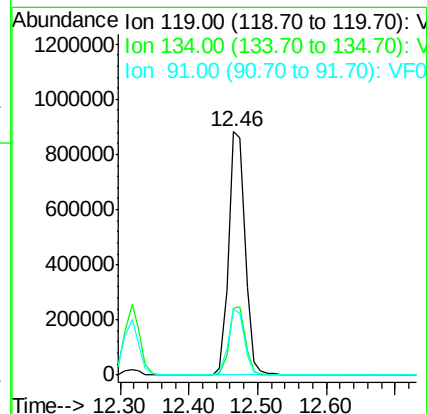
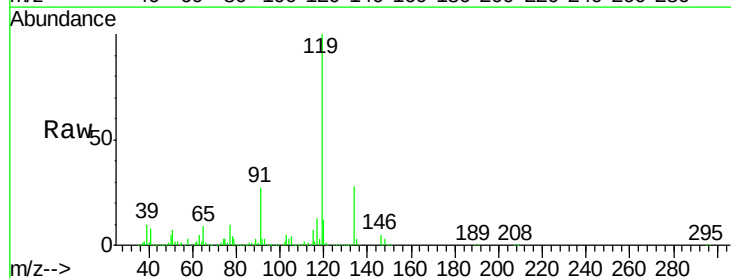
Tgt Ion:119 Resp: 1471451

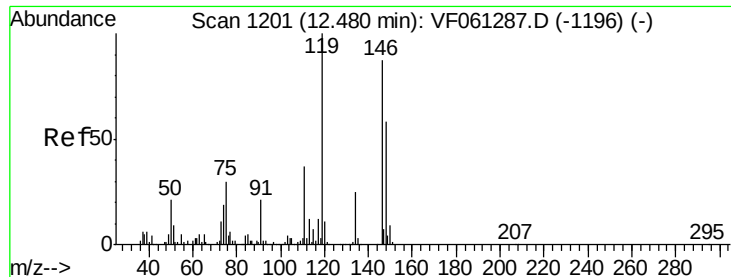
Ion Ratio Lower Upper

119 100

134 27.7 13.0 39.0

91 27.0 12.2 36.4





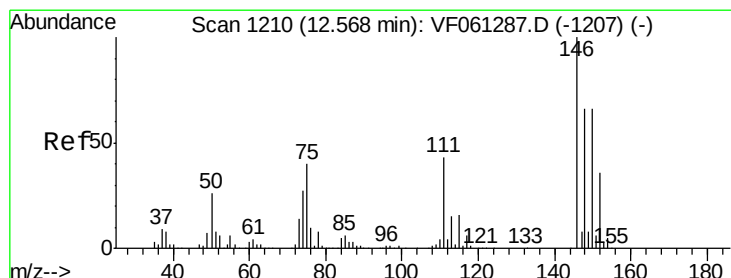
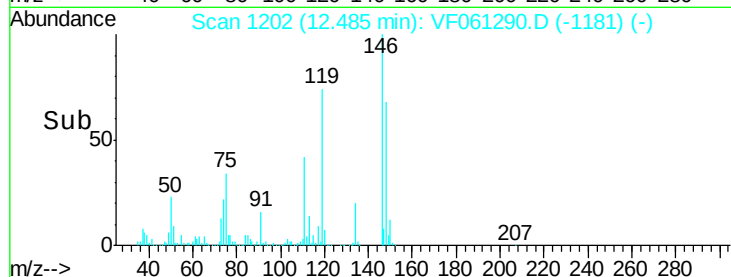
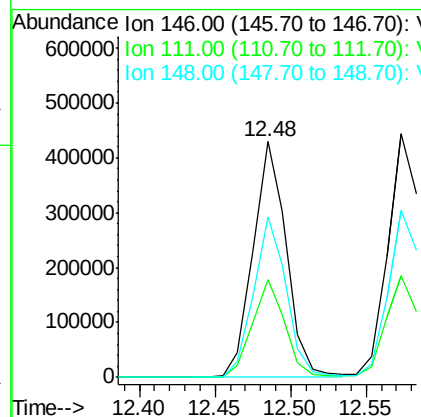
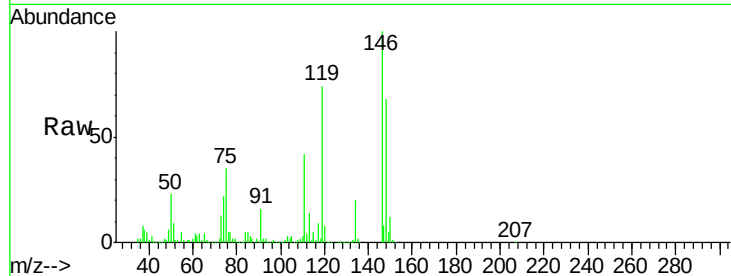
#87
 1,3-Dichlorobenzene
 Concen: 114.478 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.1	63.3
148	68.0	33.1	99.5

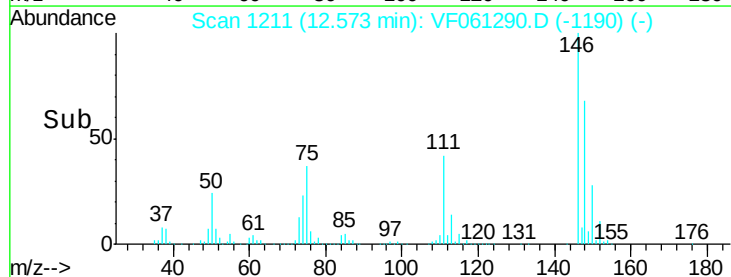
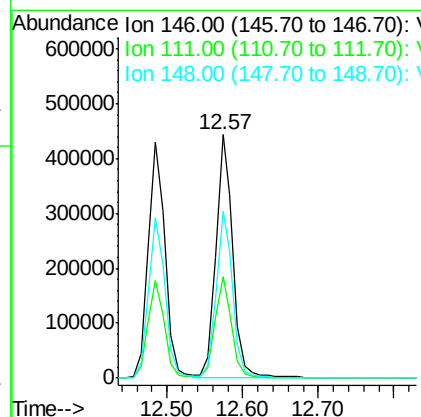
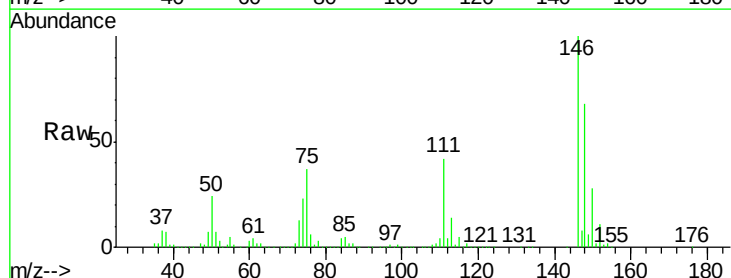
Manual Integrations
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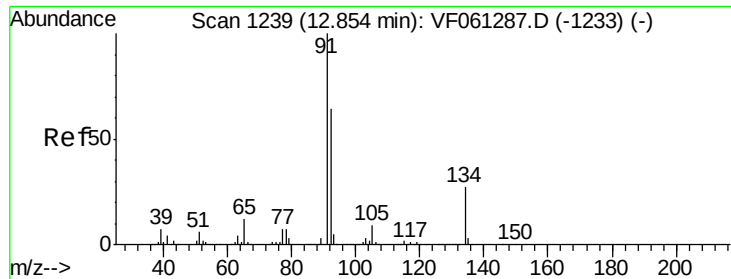
MMDadoda
 1/9/2019 11:45:10 AM



#88
 1,4-Dichlorobenzene
 Concen: 124.209 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.4	64.2
148	68.5	33.0	98.9





#89

n-Butylbenzene

Concen: 108.817 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1478279

Ion Ratio Lower Upper

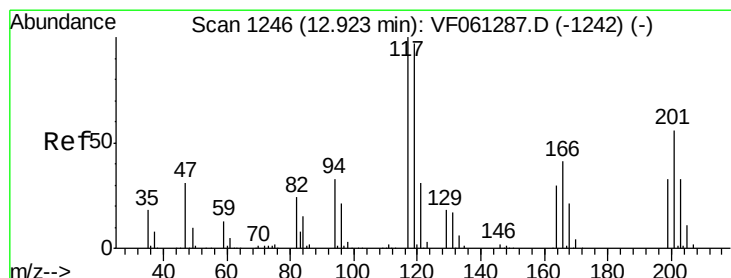
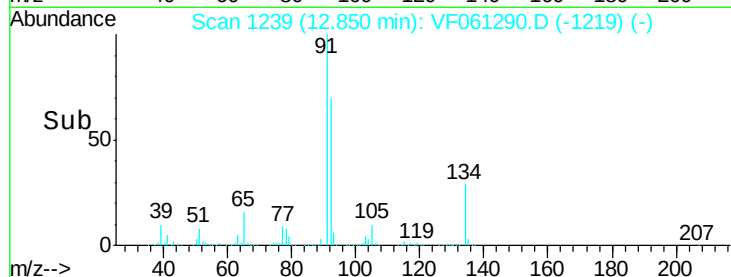
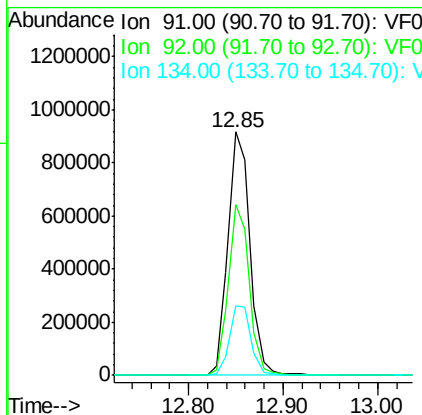
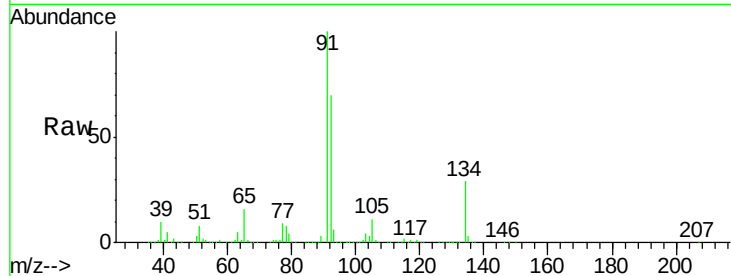
91 100

92 70.3 32.1 96.3

134 28.7 13.4 40.1

Manual Integrations
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1/9/2019 11:45:10 AM



#90

Hexachloroethane

Concen: 123.760 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VF061290.D

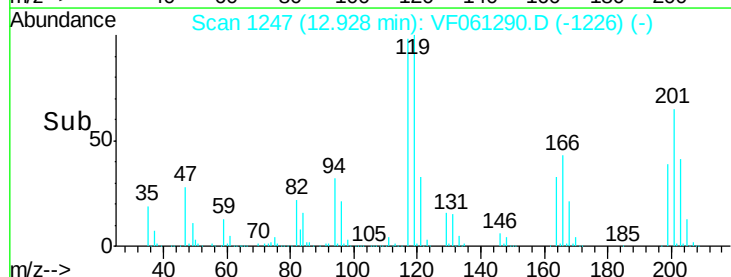
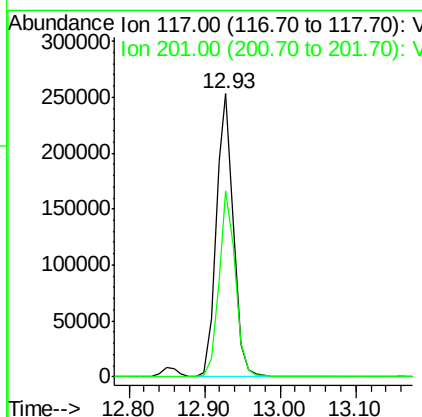
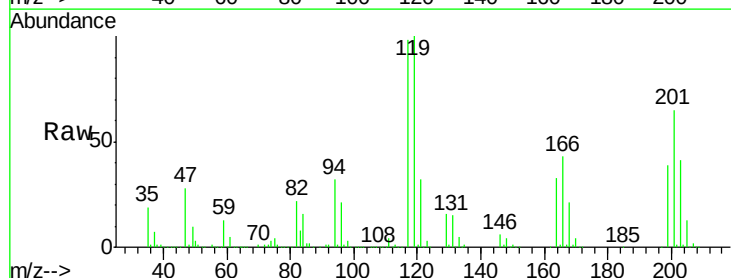
Acq: 8 Jan 2019 16:55

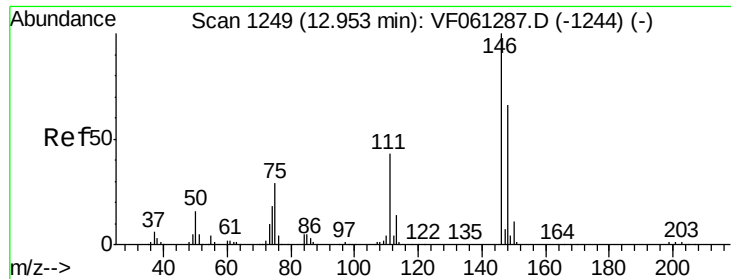
Tgt Ion: 117 Resp: 403716

Ion Ratio Lower Upper

117 100

201 65.8 27.9 83.7





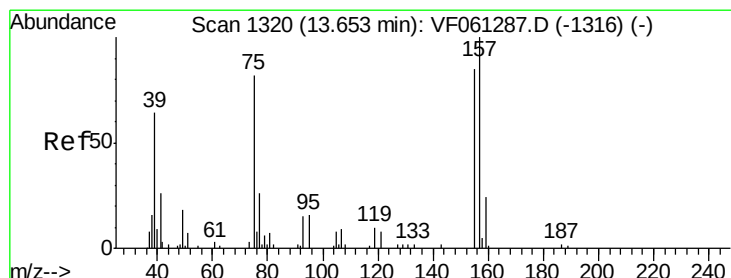
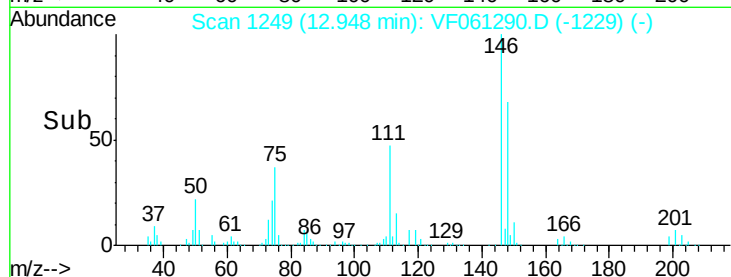
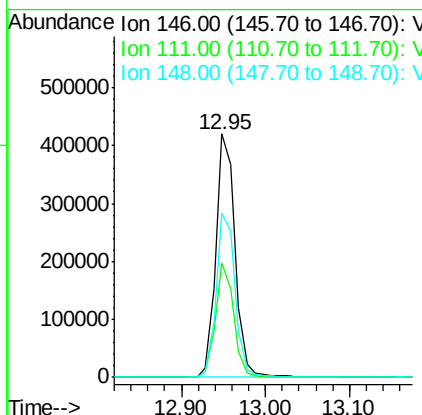
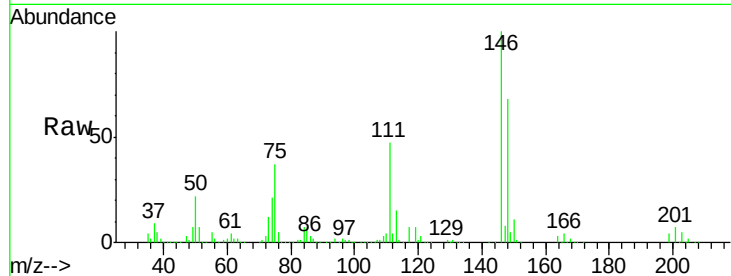
#91
 1,2-Dichlorobenzene
 Concen: 119.017 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	21.4	64.3
148	67.6	33.1	99.2

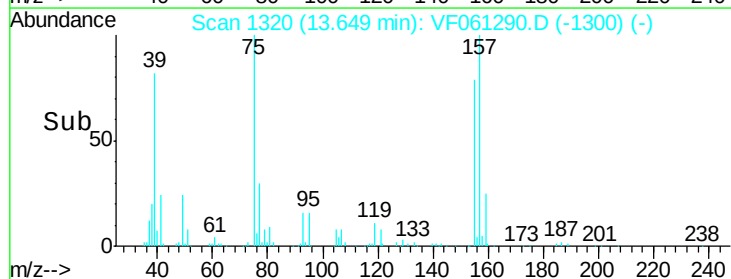
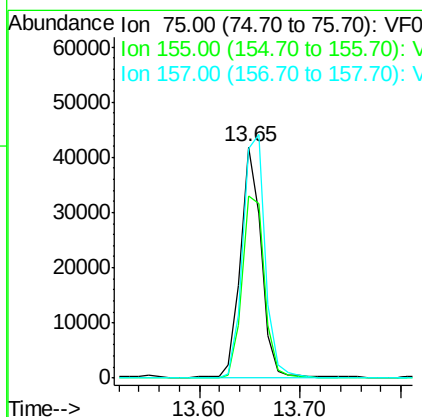
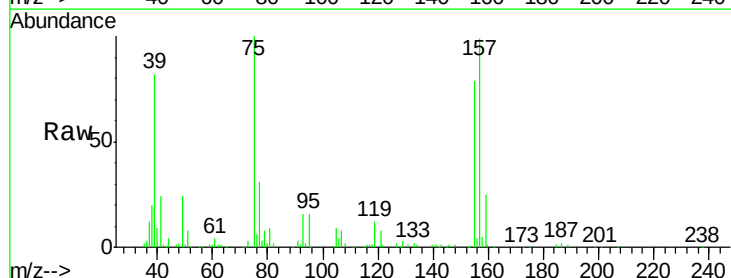
Manual Integrations
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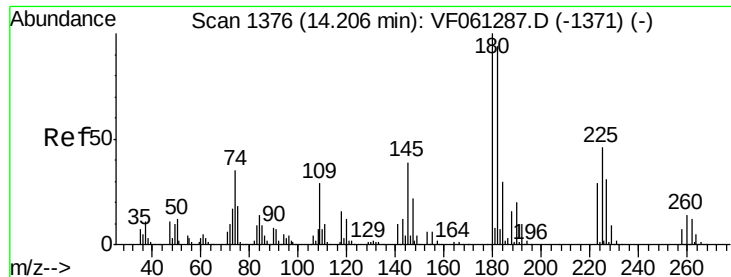
MMDadoda
 1/9/2019 11:45:10 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 134.417 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.7	51.3	154.0
157	99.5	60.7	182.0





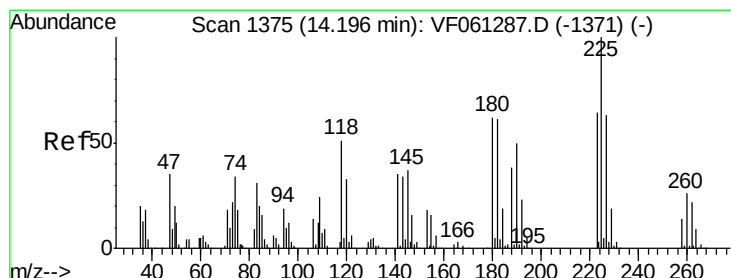
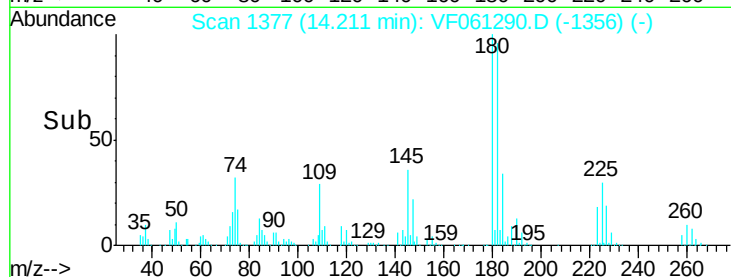
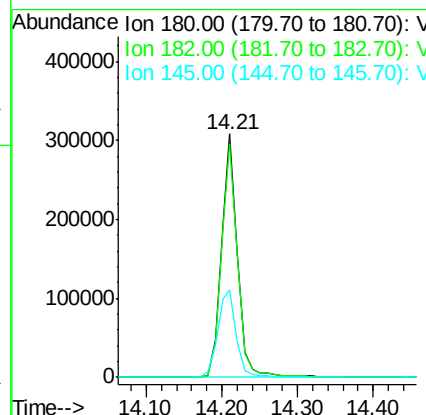
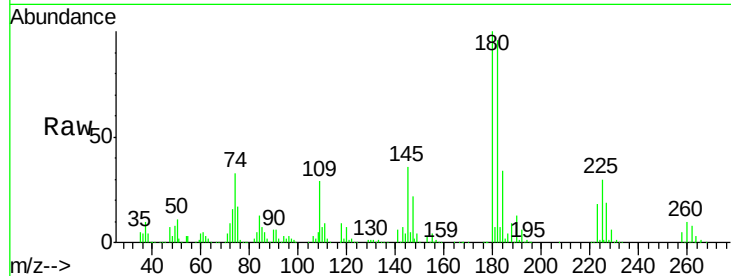
#93
 1,2,4-Trichlorobenzene
 Concen: 118.596 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
180	100	461871		
182	96.1	47.0	141.2	
145	36.1	19.7	59.1	

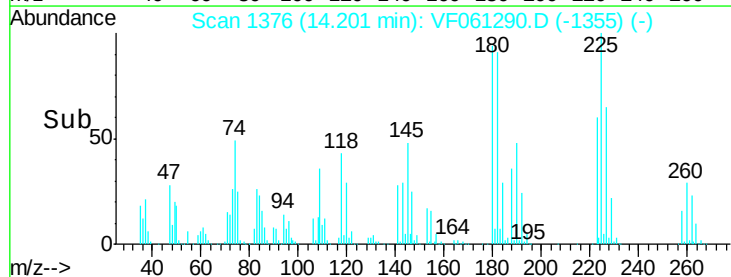
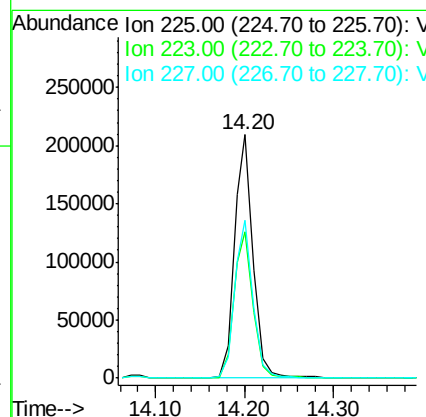
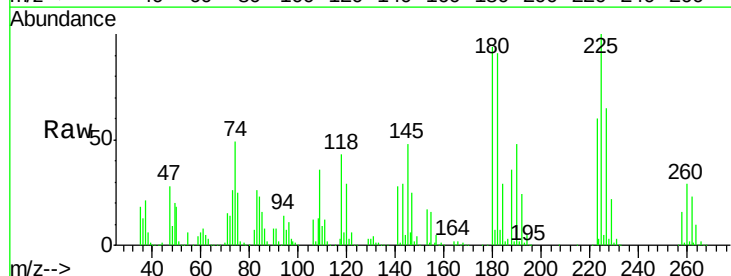
Manual Integrations
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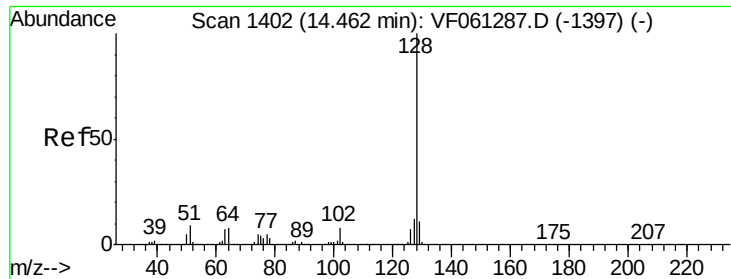
MMDadoda
 1/9/2019 11:45:10 AM



#94
 Hexachlorobutadiene
 Concen: 124.151 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061290.D
 Acq: 8 Jan 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	308057		
223	60.1	31.8	95.4	
227	64.8	31.3	93.9	





#95

Naphthalene

Concen: 136.650 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Instrument :

MSVOA_F

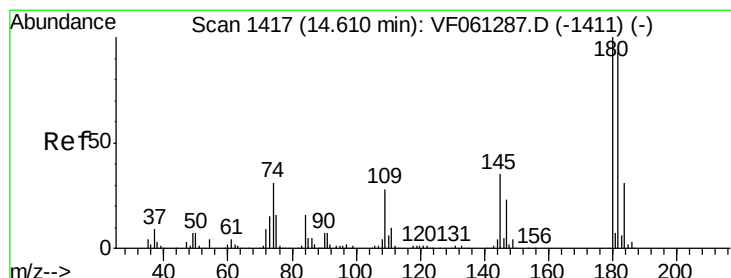
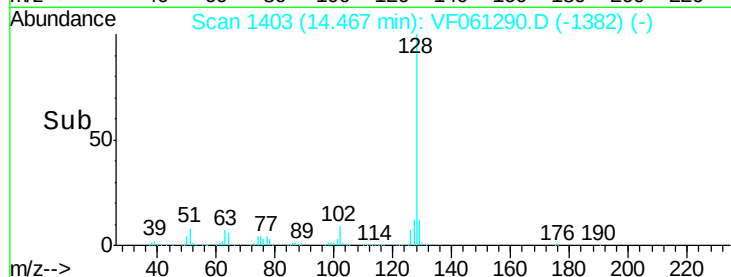
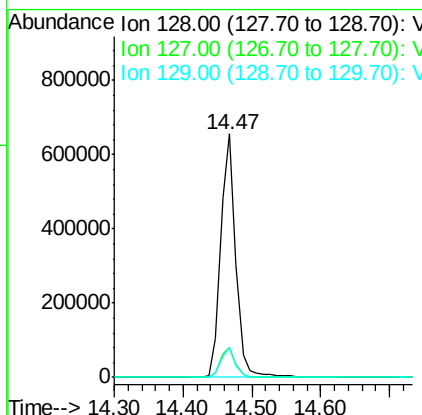
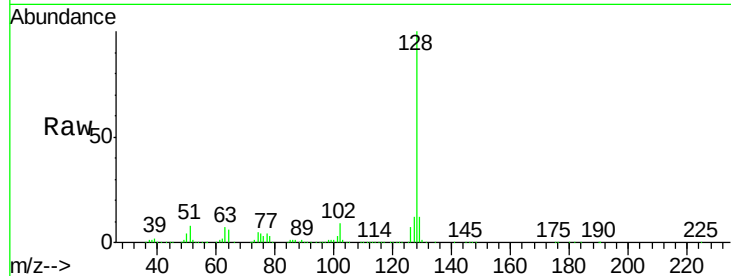
ClientSampleId :

VSTDIC150

Tot Ion:	128	Resp:	994752
Ion Ratio	Lower	Upper	
128	100		
127	12.5	9.4	14.0
129	12.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/9/2019 11:45:10 AM



#96

1,2,3-Trichlorobenzene

Concen: 122.521 ug/l

RT: 14.62 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF061290.D

Acq: 8 Jan 2019 16:55

Tgt Ion:	180	Resp:	442416
Ion Ratio	Lower	Upper	
180	100		
182	101.2	46.5	139.3
145	34.7	17.5	52.6

