

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010819\
 Data File : VF061284.D
 Acq On : 8 Jan 2019 14:05
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/9/2019 11:44:39 AM

Quant Time: Jan 09 06:13:26 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	4.87	168	231256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	415781	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	366445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	184096	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	12083	4.12	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	8.24%	
35) Dibromofluoromethane	4.11	113	16167	5.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.10%	
50) Toluene-d8	7.56	98	45108	4.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.50%	
62) 4-Bromofluorobenzene	11.41	95	22107	5.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.52%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	0.97	85	21906	4.933	ug/l	95
3) Chloromethane	1.09	50	19677	5.785	ug/l	93
4) Vinyl Chloride	1.14	62	16237	5.511	ug/l #	87
5) Bromomethane	1.30	94	9615	4.773	ug/l	93
6) Chloroethane	1.38	64	8928	6.686	ug/l #	86
7) Trichlorofluoromethane	1.47	101	27846	5.252	ug/l	88
8) Diethyl Ether	1.64	74	4676	6.182	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	15305	5.778	ug/l #	81
10) Methyl Iodide	1.85	142	23583m	5.510	ug/l	
11) Tert butyl alcohol	2.57	59	3123	25.212	ug/l #	87
12) 1,1-Dichloroethene	1.80	96	12493m	5.610	ug/l	
13) Acrolein	2.01	56	4282m	36.932	ug/l	
14) Allyl chloride	2.10	41	21496	6.983	ug/l #	96
15) Acrylonitrile	2.95	53	10885	32.870	ug/l #	77
16) Acetone	2.24	43	17337	29.490	ug/l #	88
17) Carbon Disulfide	1.80	76	38513m	5.680	ug/l	
18) Methyl Acetate	2.35	43	6707	5.155	ug/l #	86
19) Methyl tert-butyl Ether	2.43	73	21474	4.626	ug/l	99
20) Methylene Chloride	2.19	84	15167m	5.559	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	12576	5.370	ug/l	97
22) Diisopropyl ether	2.80	45	45857	5.924	ug/l	96
23) Vinyl Acetate	3.19	43	64004	18.055	ug/l	97
24) 1,1-Dichloroethane	2.87	63	26275	5.790	ug/l	99
25) 2-Butanone	4.34	43	29386	26.628	ug/l	94
26) 2,2-Dichloropropane	3.61	77	15948	6.102	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	19322	5.614	ug/l	79
28) Bromochloromethane	3.73	49	12699	5.911	ug/l	96
29) Tetrahydrofuran	4.08	42	12314	28.699	ug/l	90
30) Chloroform	3.87	83	31982	5.038	ug/l	99
31) Cyclohexane	3.69	56	27942	5.809	ug/l	85
32) 1,1,1-Trichloroethane	4.10	97	23999	5.820	ug/l	95
36) 1,1-Dichloropropene	4.29	75	25106	5.127	ug/l	99
37) Ethyl Acetate	4.12	43	9680	4.951	ug/l #	51
38) Carbon Tetrachloride	3.98	117	18879	4.816	ug/l #	86

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 Data File : VF061284.D
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 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC005

Manual Integrations
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MMDadoda
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Quant Time: Jan 09 06:13:26 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)
39) Methylcyclohexane	5.45	83	30296	5.788	ug/l	91
40) Benzene	4.64	78	60935	5.483	ug/l	98
41) Methacrylonitrile	4.75	41	5846	5.258	ug/l #	77
42) 1,2-Dichloroethane	4.95	62	17436	4.689	ug/l	87
43) Isopropyl Acetate	6.97	43	13171	5.049	ug/l #	84
44) Trichloroethene	5.51	130	17532	5.068	ug/l	96
45) 1,2-Dichloropropane	6.24	63	14166	4.993	ug/l	93
46) Dibromomethane	6.09	93	8246	4.417	ug/l #	81
47) Bromodichloromethane	6.39	83	21533	4.531	ug/l	98
48) Methyl methacrylate	6.72	41	6815	4.034	ug/l #	93
49) 1,4-Dioxane	6.73	88	910	77.745	ug/l #	66
51) 4-Methyl-2-Pentanone	8.26	43	46716	25.783	ug/l	99
52) Toluene	7.63	92	37375	5.150	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	17651	4.556	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	22444	4.558	ug/l	93
55) 1,1,2-Trichloroethane	8.49	97	10503	5.033	ug/l	94
56) Ethyl methacrylate	8.62	69	10828	4.695	ug/l	96
57) 1,3-Dichloropropane	8.86	76	18415	4.694	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.31	63	2534	9.048	ug/l	97
59) 2-Hexanone	9.50	43	36260	27.643	ug/l	88
60) Dibromochloromethane	8.72	129	12385	4.178	ug/l	100
61) 1,2-Dibromoethane	8.99	107	10136	4.500	ug/l	90
64) Tetrachloroethene	8.16	164	13741	4.893	ug/l	95
65) Chlorobenzene	9.80	112	41563	5.578	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	15792	5.161	ug/l	94
67) Ethyl Benzene	9.90	91	74736	5.456	ug/l	93
68) m/p-Xylenes	10.14	106	56993	11.401	ug/l	97
69) o-Xylene	10.72	106	30663	5.670	ug/l	90
70) Styrene	10.79	104	41400	5.561	ug/l	98
71) Bromoform	10.78	173	6414	4.502	ug/l #	85
73) Isopropylbenzene	11.13	105	89658	5.733	ug/l	96
74) N-amyl acetate	11.37	43	21842	5.532	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	14129	5.173	ug/l	89
76) 1,2,3-Trichloropropane	11.80	75	11098	5.473	ug/l	99
77) Bromobenzene	11.50	156	18267	5.564	ug/l	92
78) n-propylbenzene	11.60	91	114687	6.153	ug/l	100
79) 2-Chlorotoluene	11.73	91	62684	5.823	ug/l	99
80) 1,3,5-Trimethylbenzene	11.83	105	73997	5.861	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	4587m	4.936	ug/l	
82) 4-Chlorotoluene	11.90	91	64596	5.919	ug/l	96
83) tert-Butylbenzene	12.13	119	74233	5.703	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	70805	5.634	ug/l	97
85) sec-Butylbenzene	12.31	105	106214	6.016	ug/l	98
86) p-Isopropyltoluene	12.47	119	85451	5.874	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	38144	6.021	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	34246	5.541	ug/l	94
89) n-Butylbenzene	12.85	91	86951	5.817	ug/l	96
90) Hexachloroethane	12.92	117	18247	5.084	ug/l	90
91) 1,2-Dichlorobenzene	12.95	146	33262	5.436	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	2089	4.256	ug/l	93

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ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC005

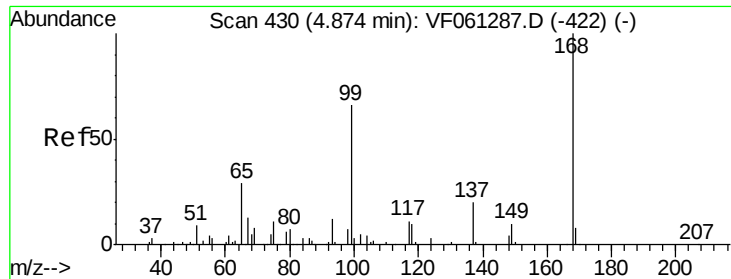
Manual Integrations
APPROVED

MMDadoda
1/9/2019 11:44:39 AM

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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)
93) 1,2,4-Trichlorobenzene	14.20	180	22654	5.287	ug/l	98
94) Hexachlorobutadiene	14.19	225	14256	5.222	ug/l	96
95) Naphthalene	14.46	128	40042	4.999	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	22301	5.613	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 231256

Ion Ratio Lower Upper

168 100

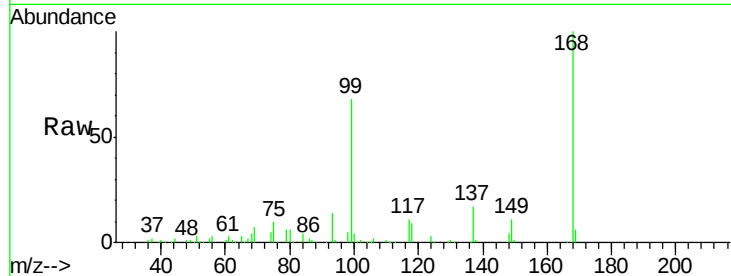
99 67.5 52.7 79.1

Manual Integrations

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1/9/2019 11:44:39 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

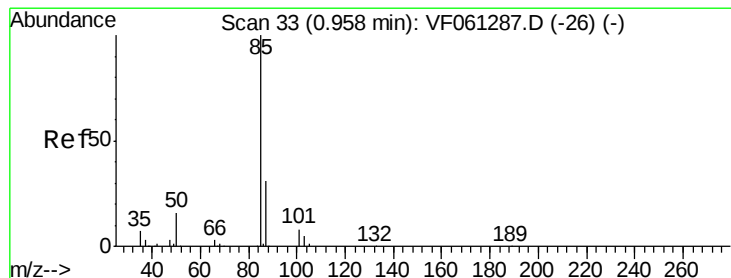
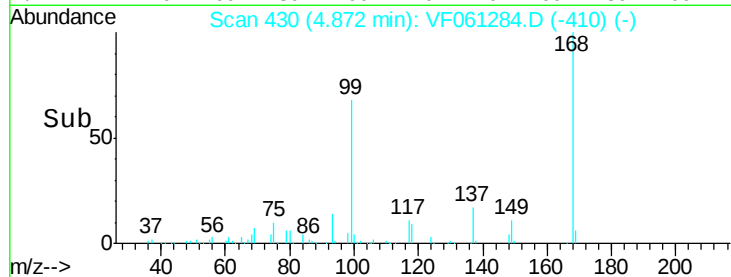
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 4.933 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061284.D

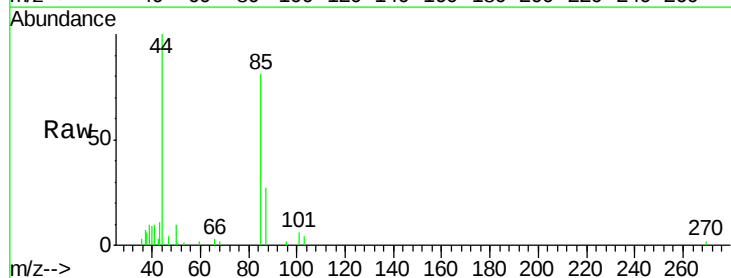
Acq: 8 Jan 2019 14:05

Tgt Ion: 85 Resp: 21906

Ion Ratio Lower Upper

85 100

87 33.5 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

6000

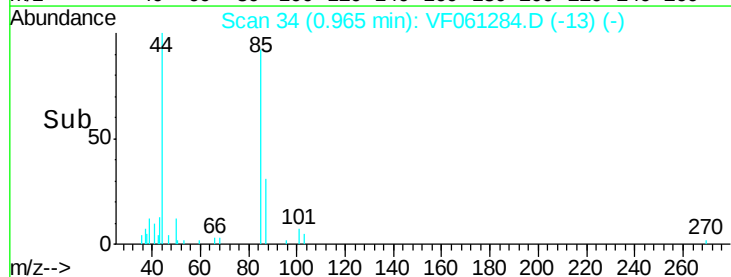
4000

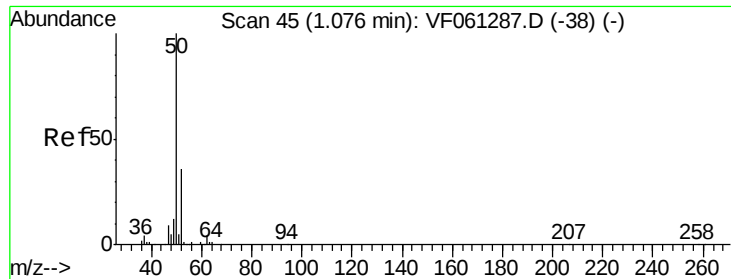
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 5.785 ug/l

RT: 1.09 min Scan# 47

Delta R.T. 0.02 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 19677

Ion Ratio Lower Upper

50 100

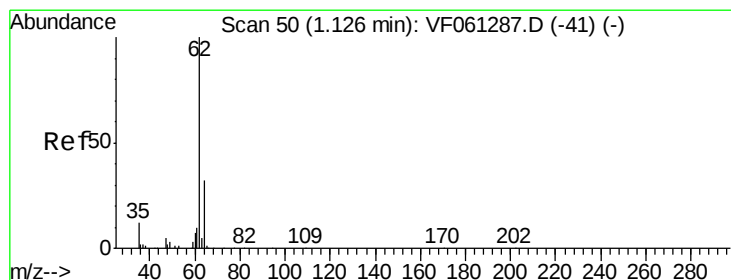
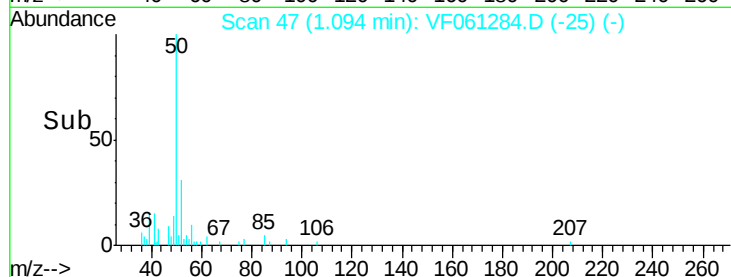
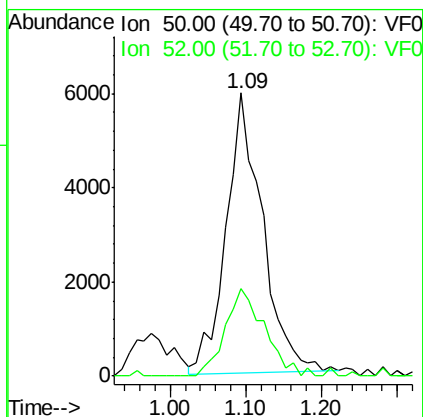
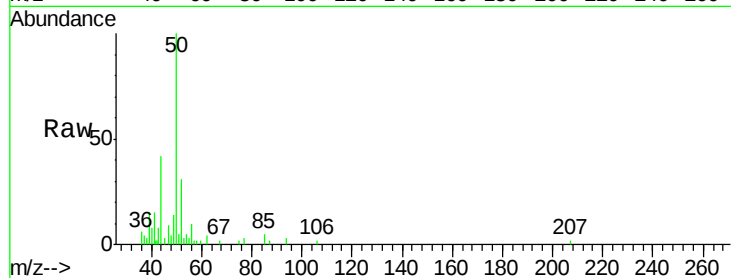
52 30.9 28.2 42.2

Manual Integrations

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1/9/2019 11:44:39 AM



#4

Vinyl Chloride

Concen: 5.511 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.02 min

Lab File: VF061284.D

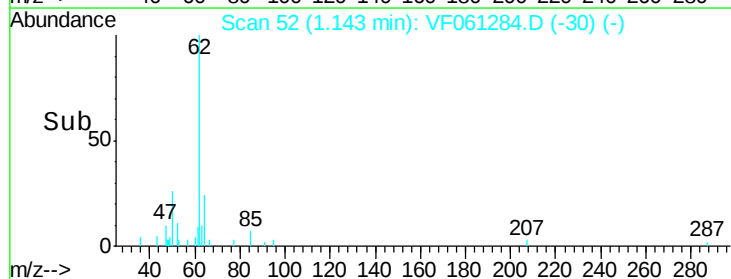
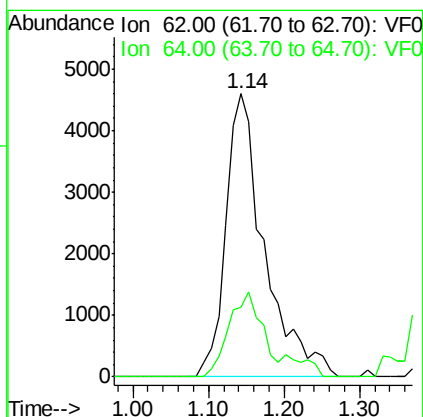
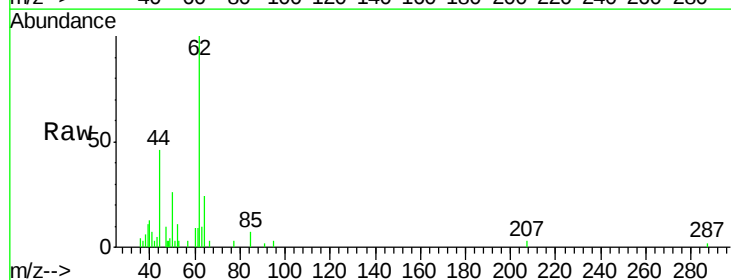
Acq: 8 Jan 2019 14:05

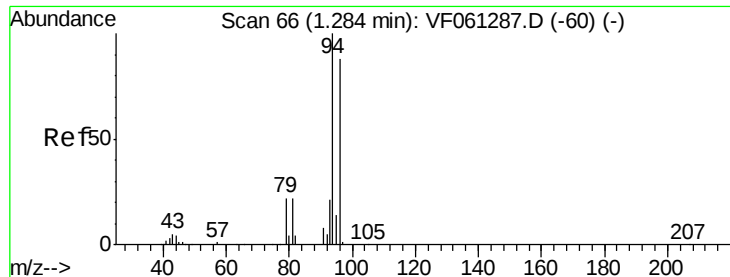
Tgt Ion: 62 Resp: 16237

Ion Ratio Lower Upper

62 100

64 24.4 25.4 38.0#





#5

Bromomethane

Concen: 4.773 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 9615

Ion Ratio Lower Upper

94 100

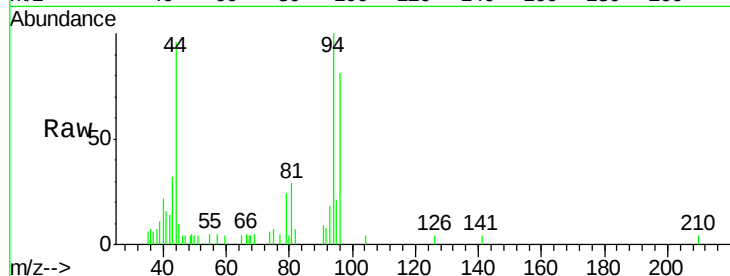
96 81.0 70.2 105.4

Manual Integrations

APPROVED

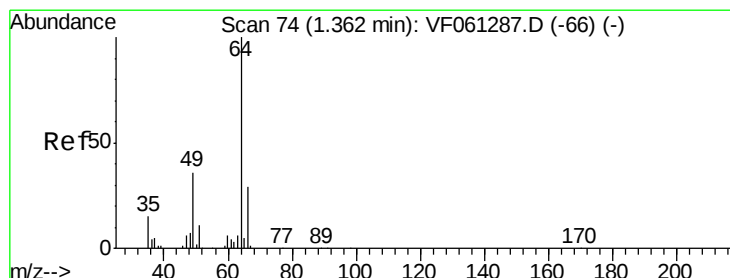
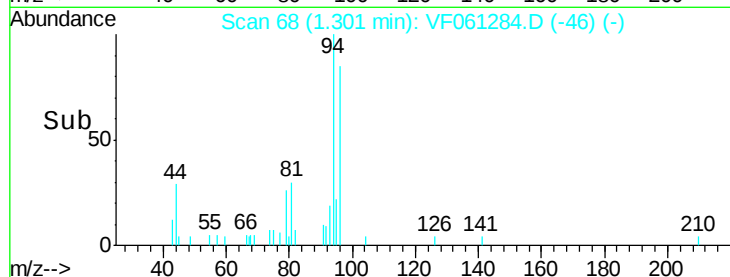
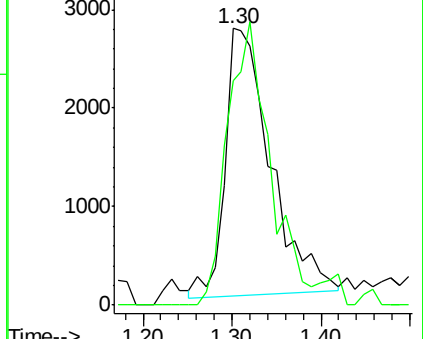
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 6.686 ug/l

RT: 1.38 min Scan# 76

Delta R.T. 0.02 min

Lab File: VF061284.D

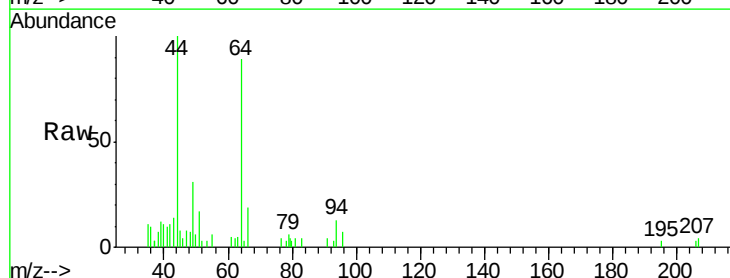
Acq: 8 Jan 2019 14:05

Tgt Ion: 64 Resp: 8928

Ion Ratio Lower Upper

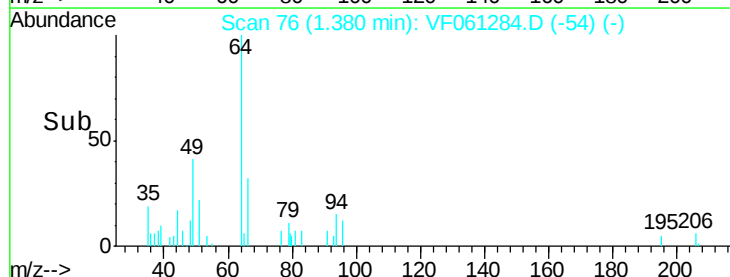
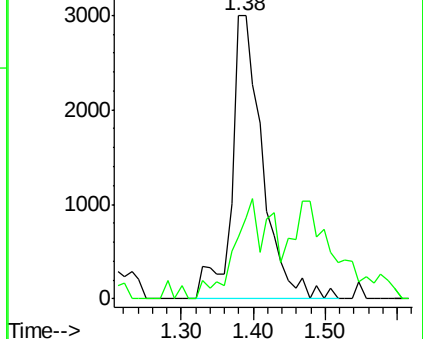
64 100

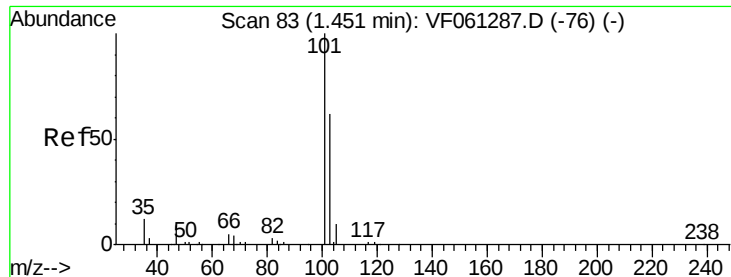
66 21.9 23.4 35.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 5.252 ug/l

RT: 1.47 min Scan# 85

Delta R.T. 0.02 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 27846

Ion Ratio Lower Upper

101 100

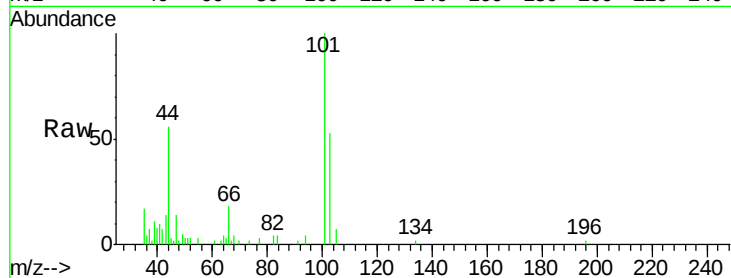
103 52.8 49.9 74.9

Manual Integrations

APPROVED

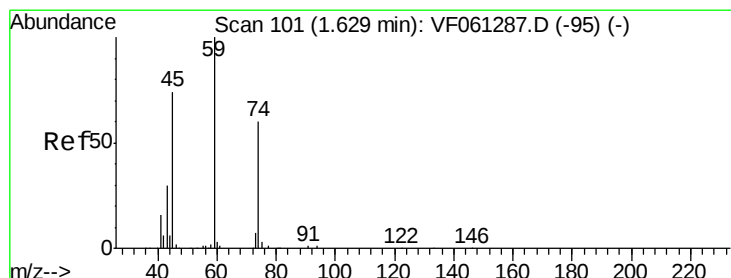
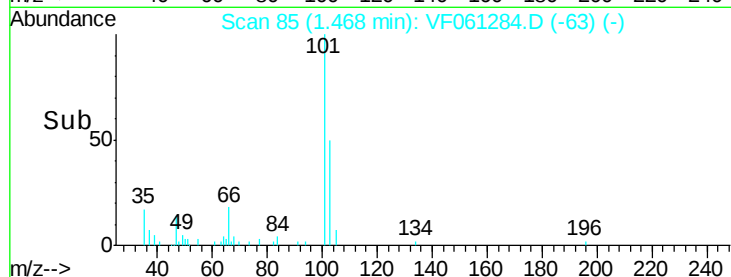
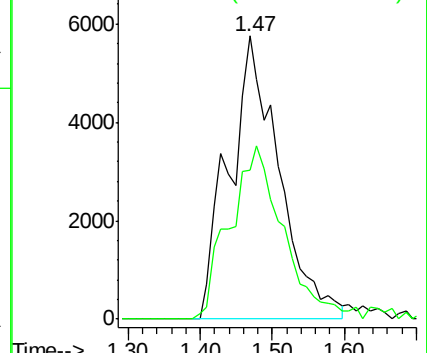
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 6.182 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061284.D

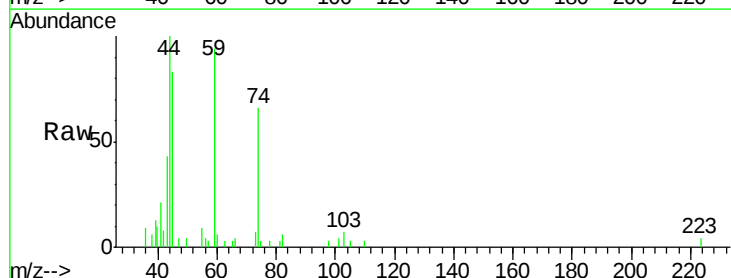
Acq: 8 Jan 2019 14:05

Tgt Ion: 74 Resp: 4676

Ion Ratio Lower Upper

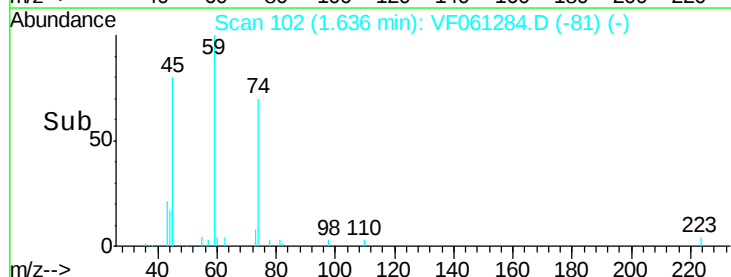
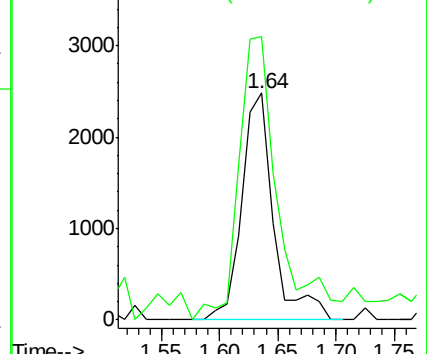
74 100

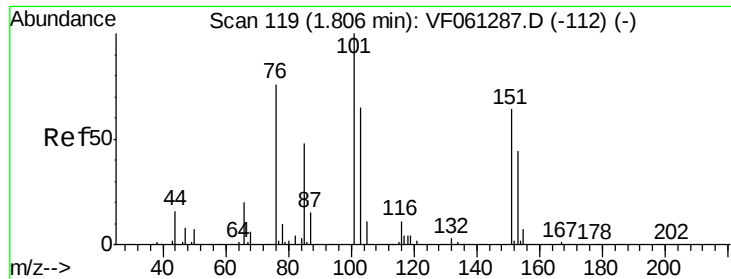
45 124.8 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.778 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.03 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

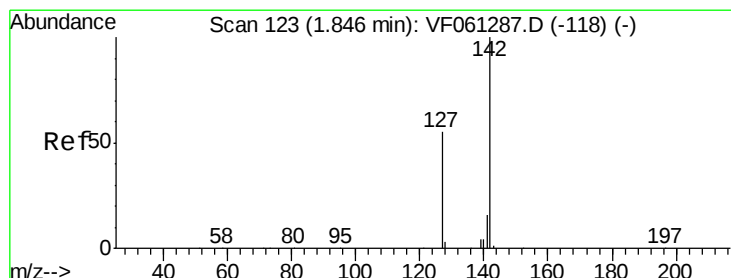
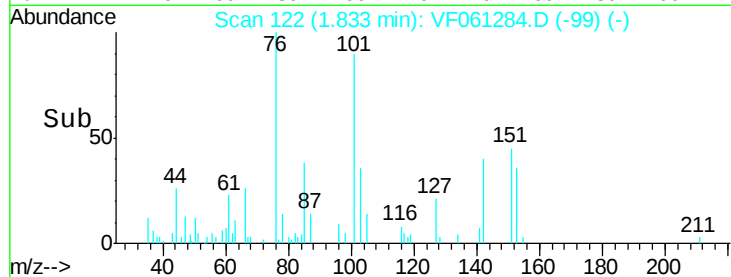
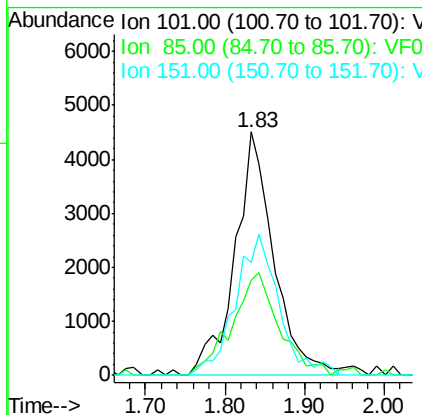
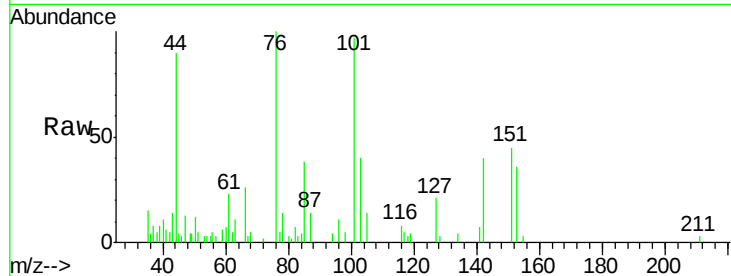
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	15305
Ion Ratio	Lower	Upper	
101	100		
85	39.1	38.4	57.6
151	46.6	51.4	77.2#

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#10

Methyl Iodide

Concen: 5.510 ug/l m

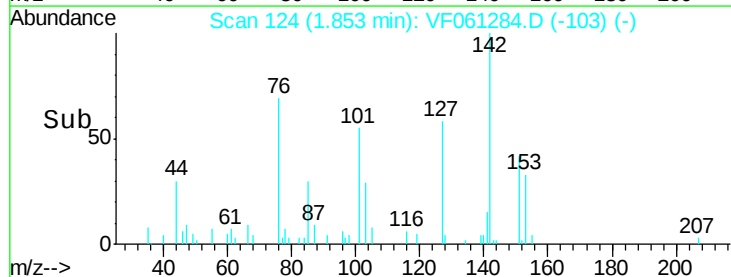
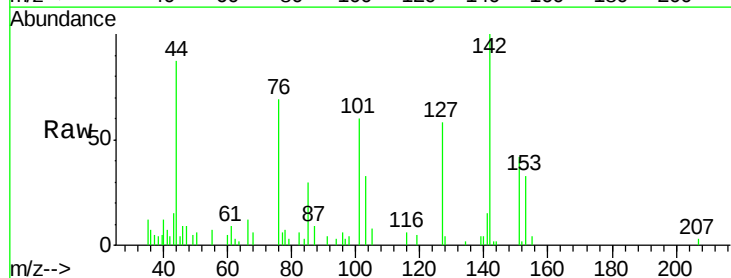
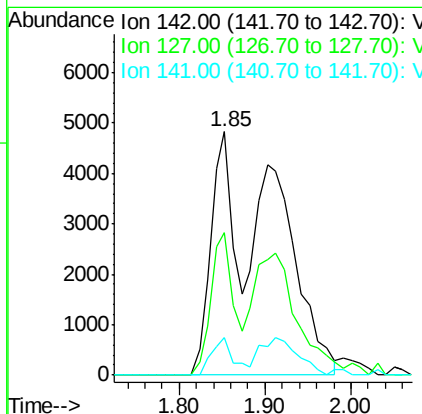
RT: 1.85 min Scan# 124

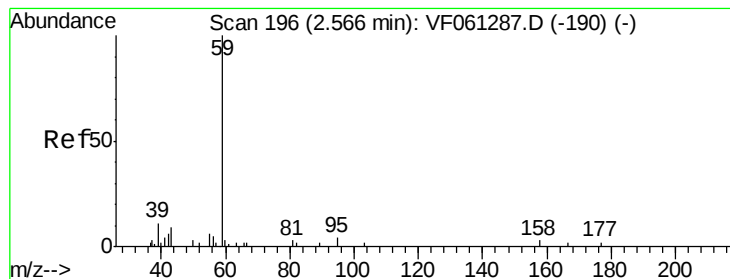
Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	142	Resp:	23583
Ion Ratio	Lower	Upper	
142	100		
127	58.4	44.3	66.5
141	15.2	13.2	19.8





#11

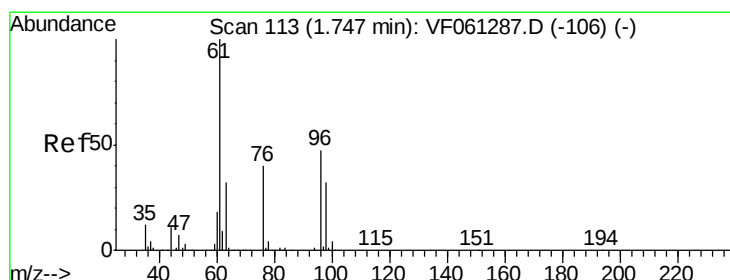
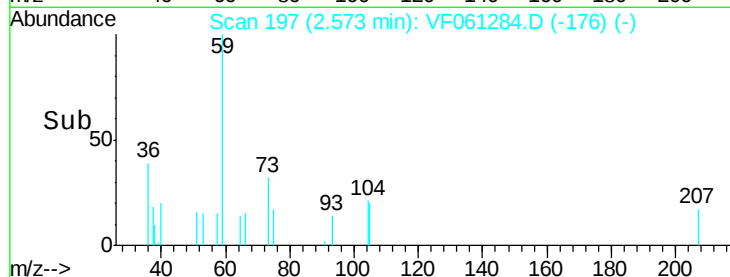
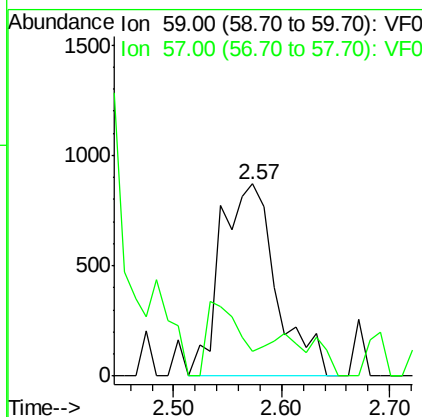
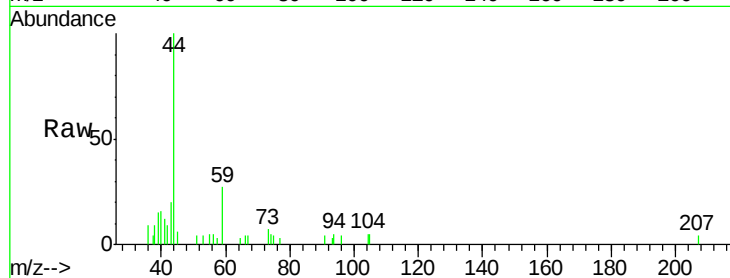
Tert butyl alcohol
Concen: 25.212 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.1	15.1	22.7#

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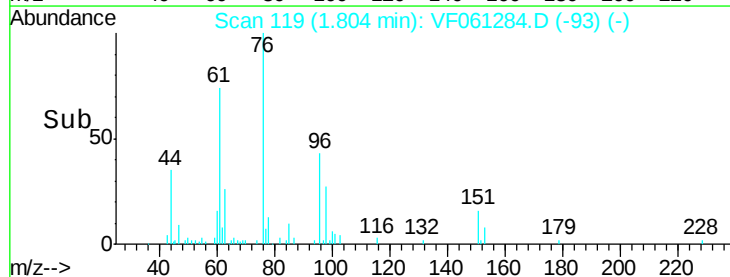
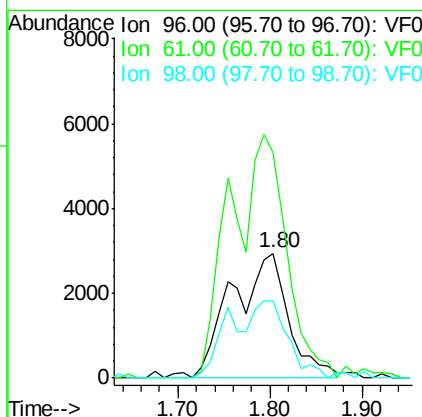
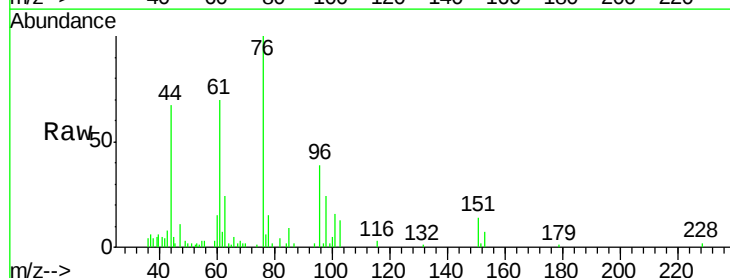
MMDadoda
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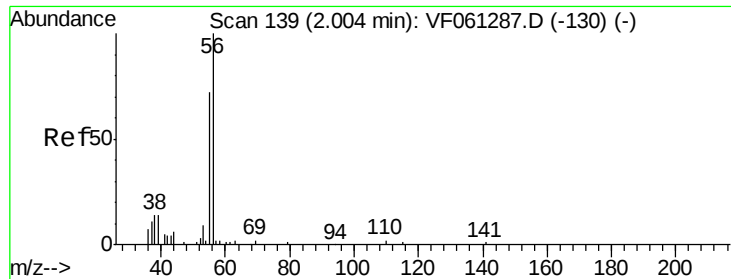


#12

1,1-Dichloroethene
Concen: 5.610 ug/l m
RT: 1.80 min Scan# 119
Delta R.T. 0.06 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	180.5	171.8	257.8
98	61.9	54.2	81.4





#13

Acrolein

Concen: 36.932 ug/l m

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 4282

Ion Ratio Lower Upper

56 100

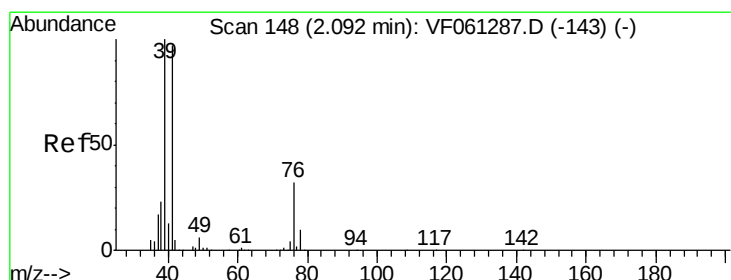
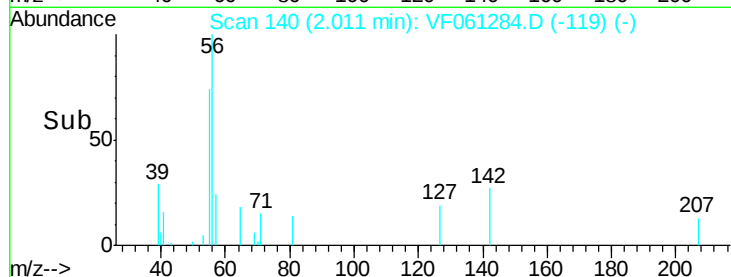
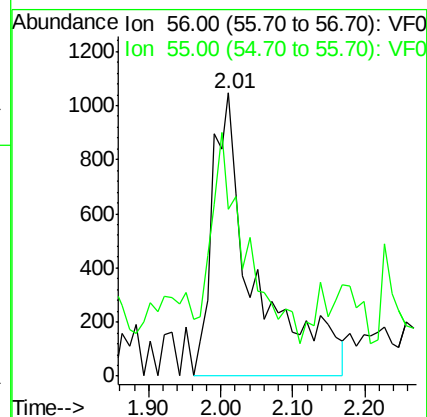
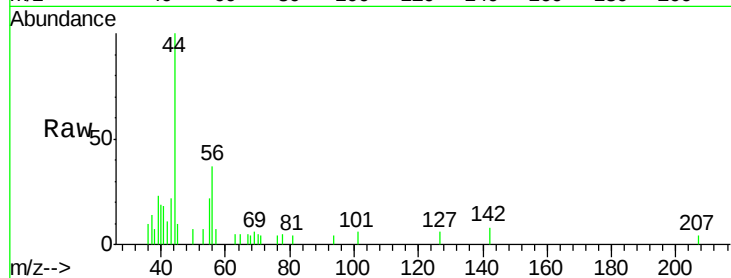
55 59.1 59.4 89.0#

Manual Integrations

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#14

Allyl chloride

Concen: 6.983 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

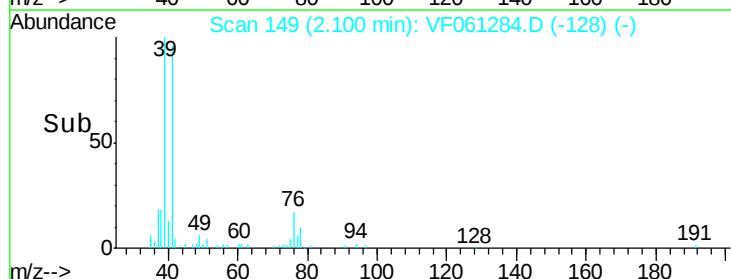
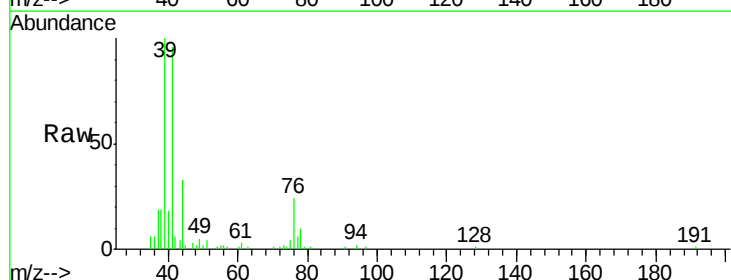
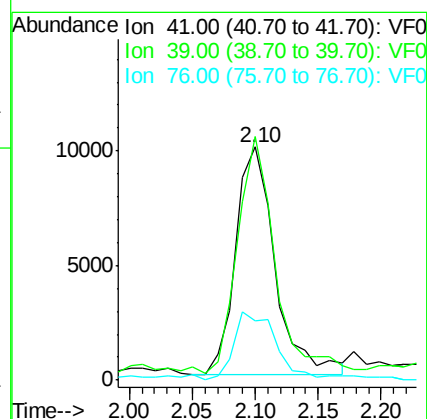
Tgt Ion: 41 Resp: 21496

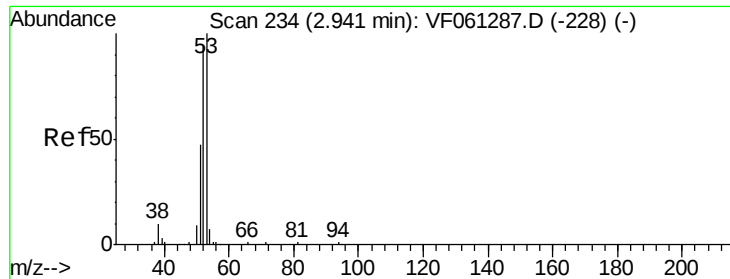
Ion Ratio Lower Upper

41 100

39 104.4 82.6 123.8

76 25.4 26.9 40.3#





#15

Acrylonitrile

Concen: 32.870 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

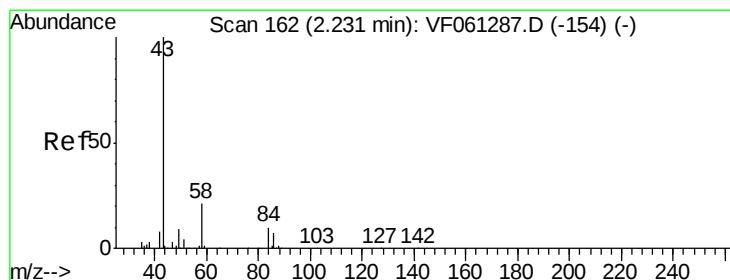
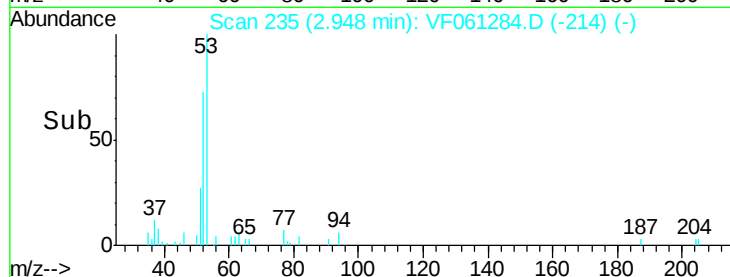
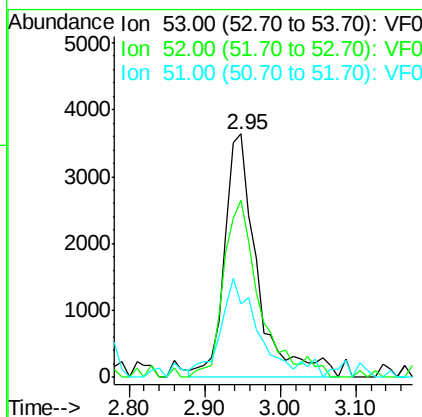
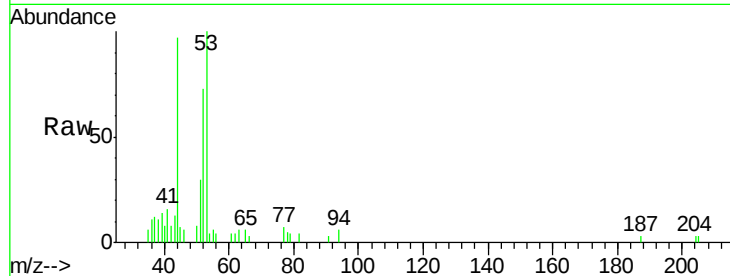
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	10885
Ion	Ratio	Lower	Upper
53	100		
52	72.5	74.6	111.8#
51	30.2	37.8	56.6#

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#16

Acetone

Concen: 29.490 ug/l

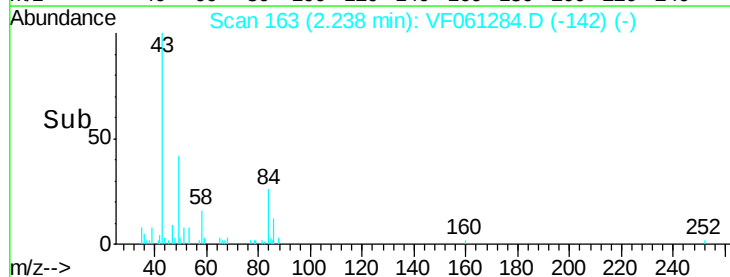
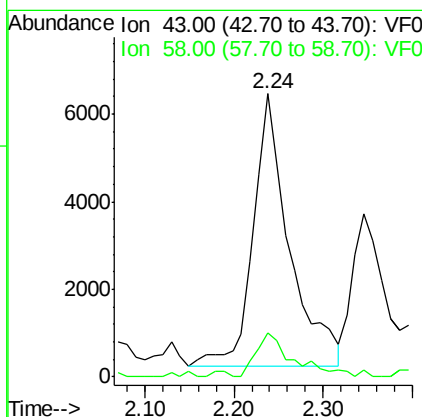
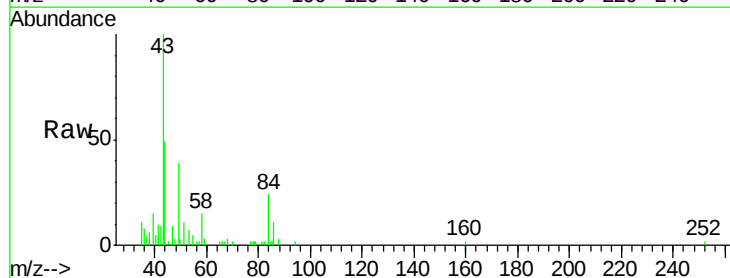
RT: 2.24 min Scan# 163

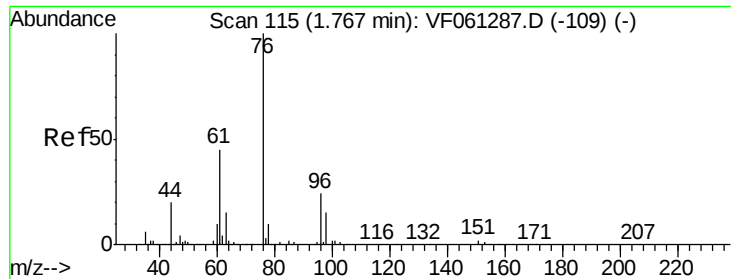
Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	43	Resp:	17337
Ion	Ratio	Lower	Upper
43	100		
58	15.4	16.6	25.0#





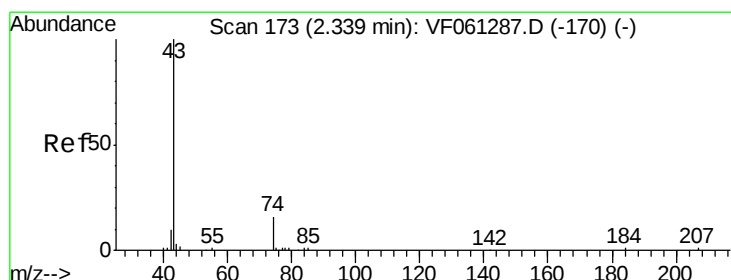
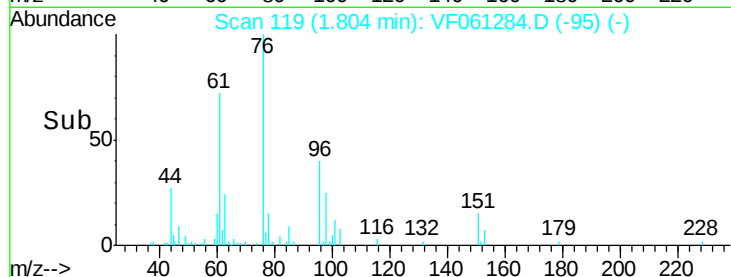
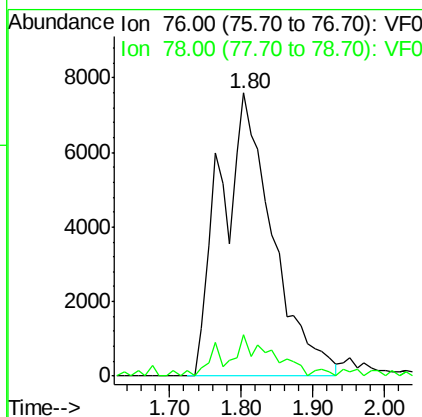
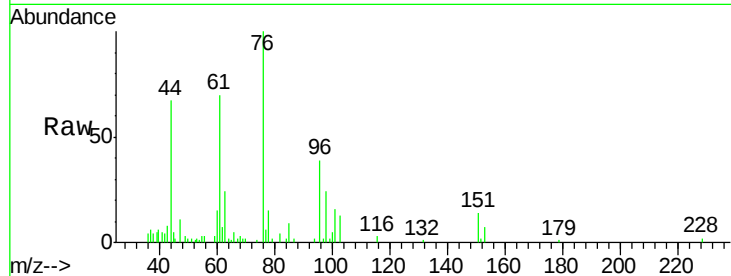
#17
Carbon Disulfide
Concen: 5.680 ug/l m
RT: 1.80 min Scan# 119
Delta R.T. 0.04 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 38513
Ion Ratio Lower Upper
76 100
78 14.8 7.8 11.6#

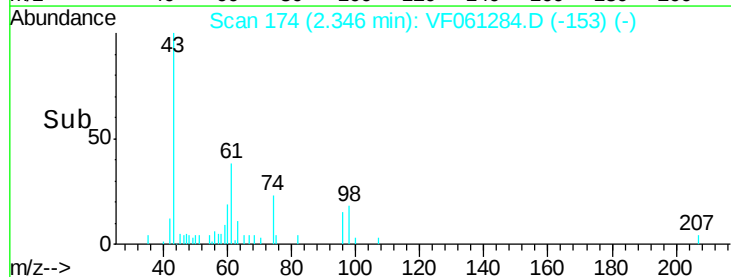
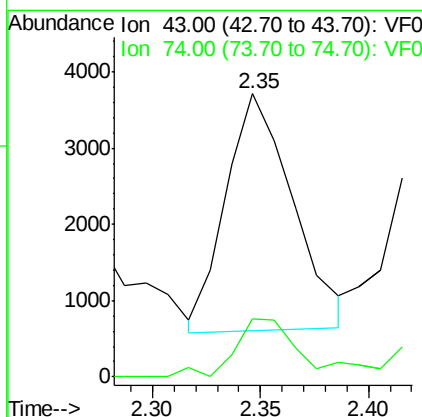
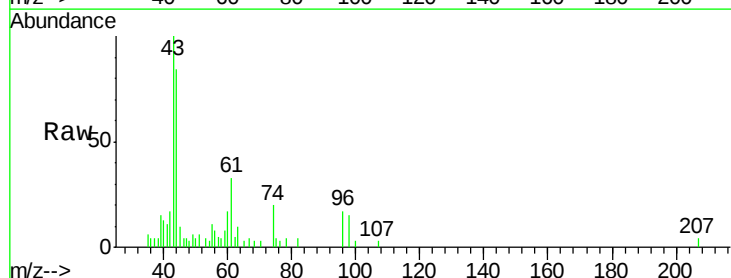
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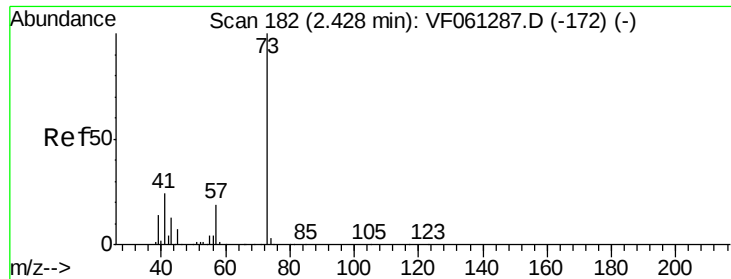
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#18
Methyl Acetate
Concen: 5.155 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion: 43 Resp: 6707
Ion Ratio Lower Upper
43 100
74 20.3 11.6 17.4#





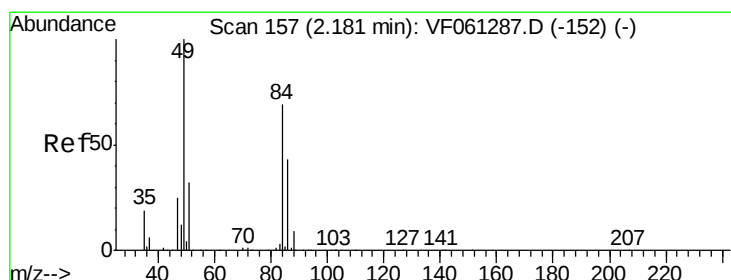
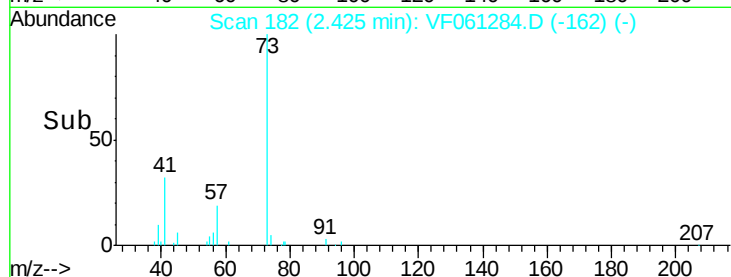
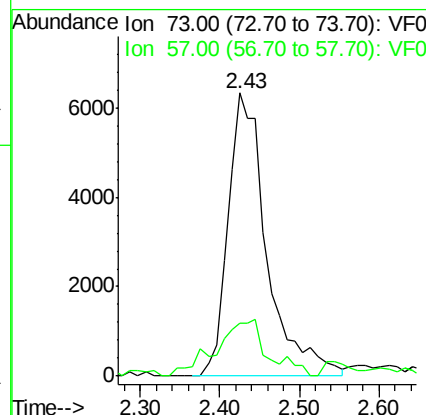
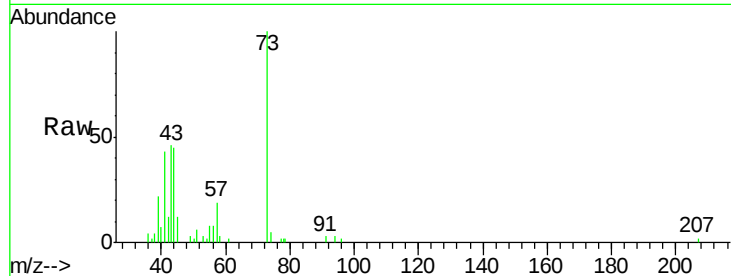
#19
Methvl tert-butvl Ether
Concen: 4.626 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.8	15.5	23.3

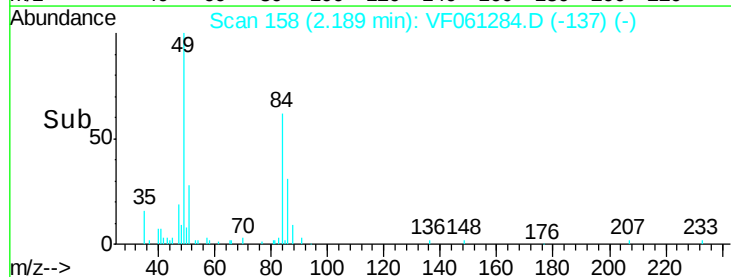
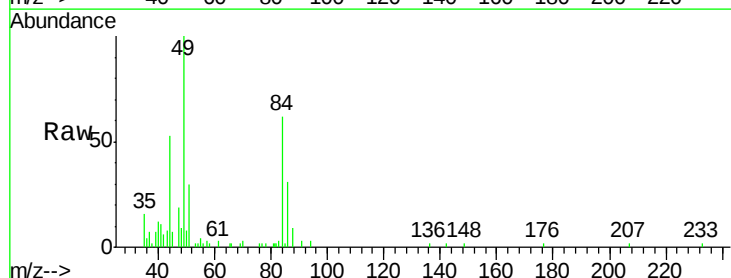
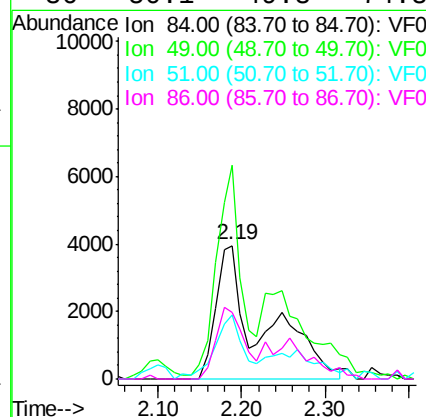
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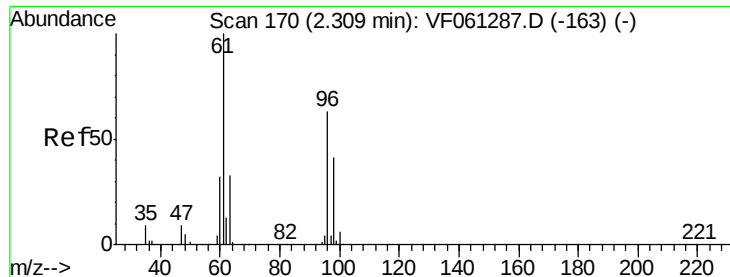
MMDadoda
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#20
Methylene Chloride
Concen: 5.559 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	160.2	116.6	175.0
51	48.4	37.7	56.5
86	50.1	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 5.370 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

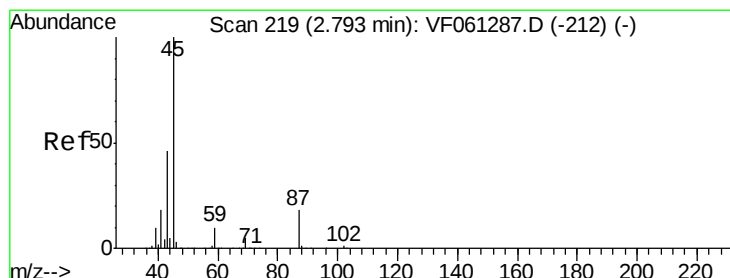
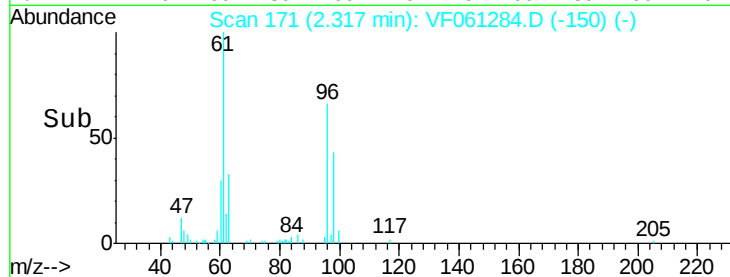
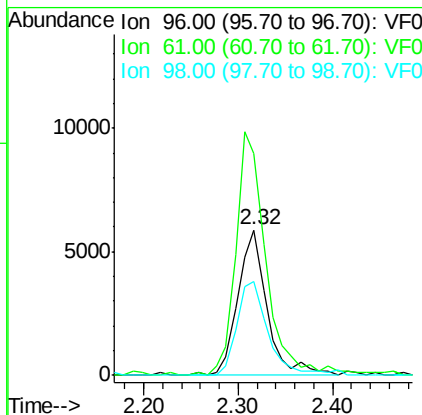
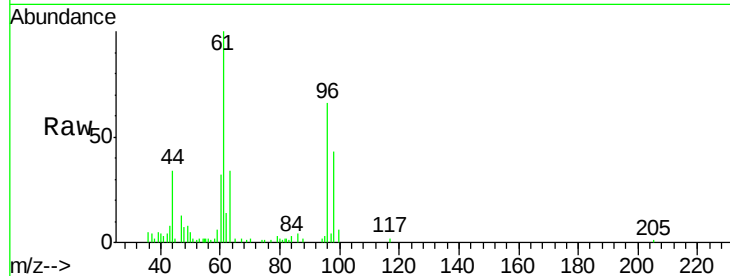
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	12576
Ion	Ratio	Lower	Upper
96	100		
61	152.5	127.0	190.4
98	64.9	51.7	77.5

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#22

Diisopropyl ether

Concen: 5.924 ug/l

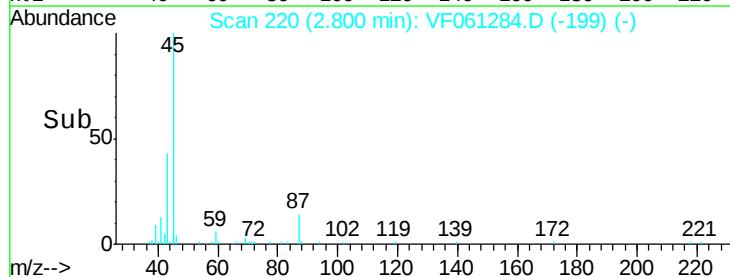
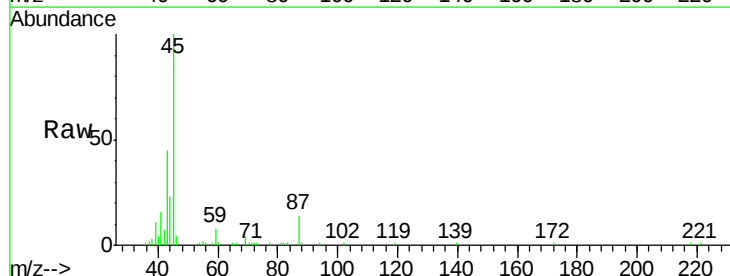
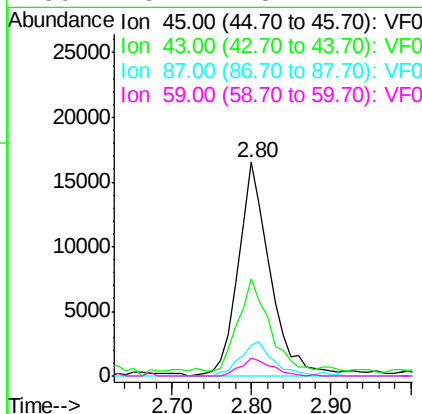
RT: 2.80 min Scan# 220

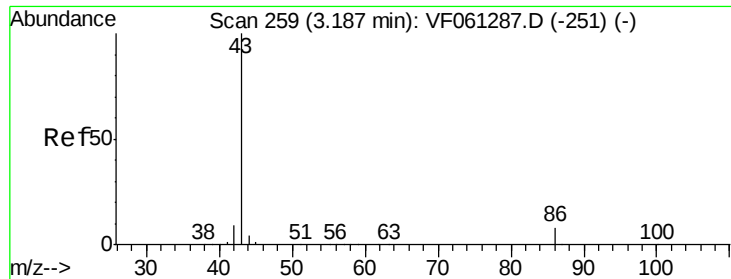
Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	45	Resp:	45857
Ion	Ratio	Lower	Upper
45	100		
43	45.4	37.4	56.2
87	14.3	14.2	21.2
59	8.4	8.2	12.2





#23

Vinyl Acetate

Concen: 18.055 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 64004

Ion Ratio Lower Upper

43 100

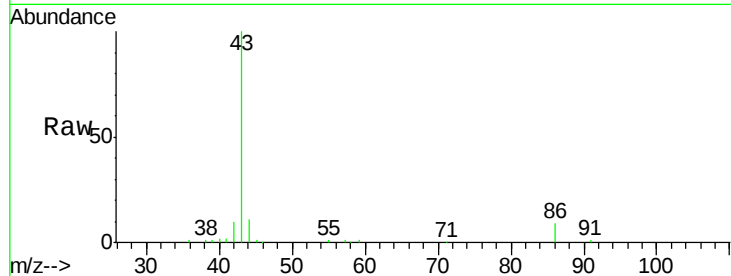
86 9.2 6.5 9.7

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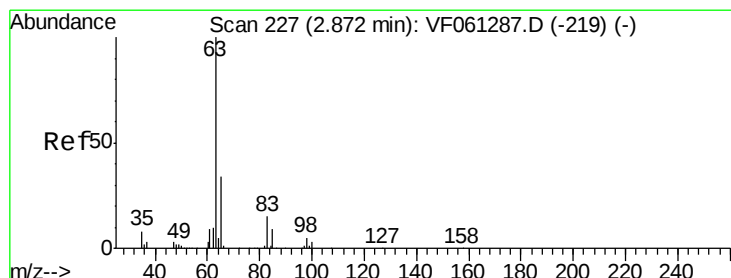
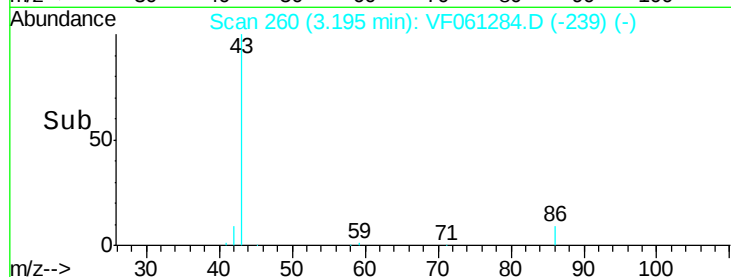
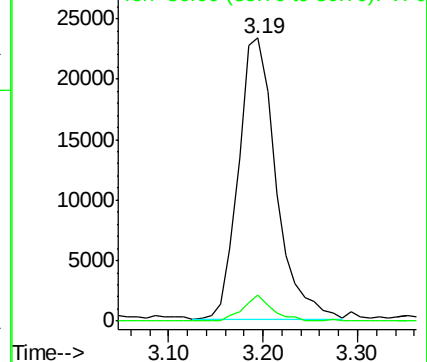
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 5.790 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

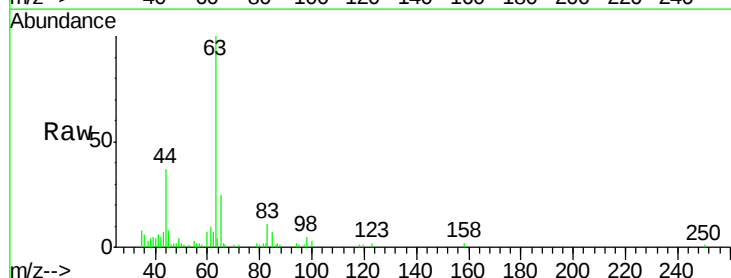
Tgt Ion: 63 Resp: 26275

Ion Ratio Lower Upper

63 100

98 5.5 2.5 7.6

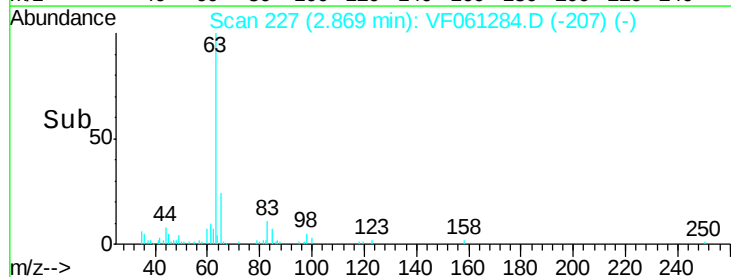
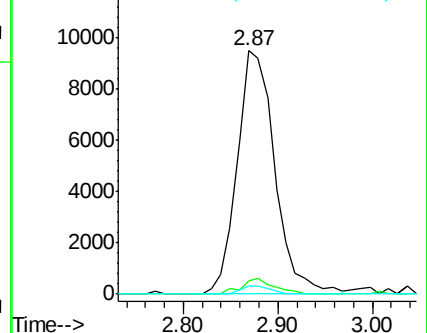
100 3.1 1.7 5.0

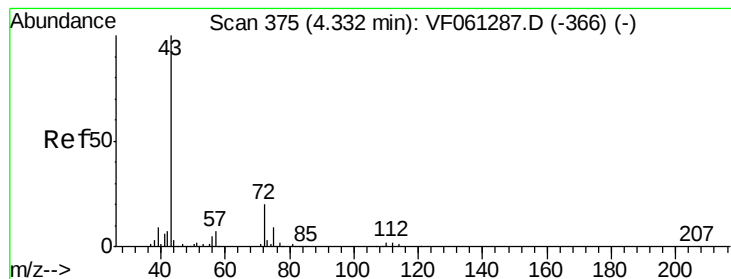


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 26.628 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tot Ion: 43 Resp: 29386

Ion Ratio Lower Upper

43 100

72 17.6 16.5 24.7

Instrument :

MSVOA_F

ClientSampleId :

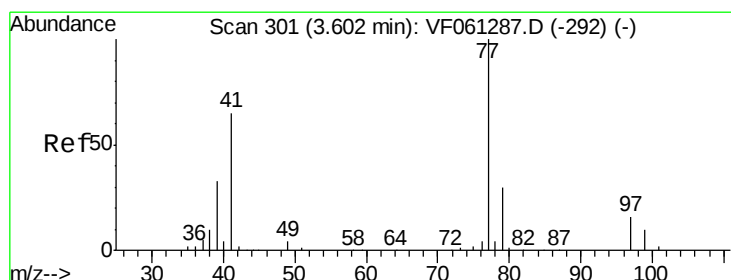
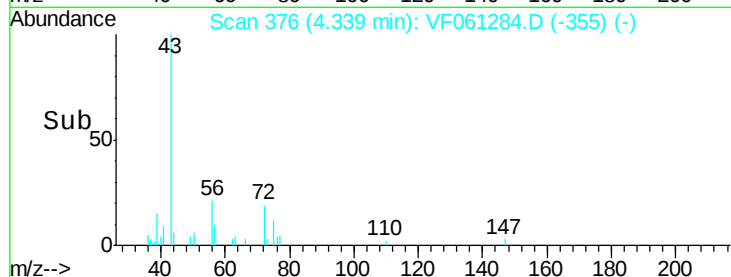
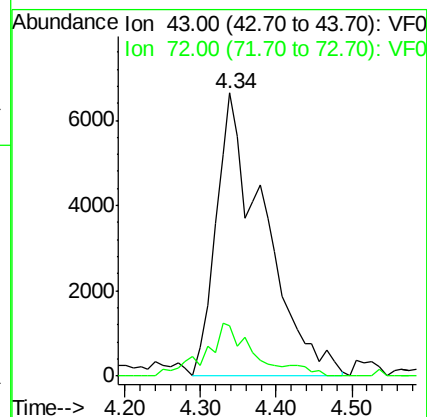
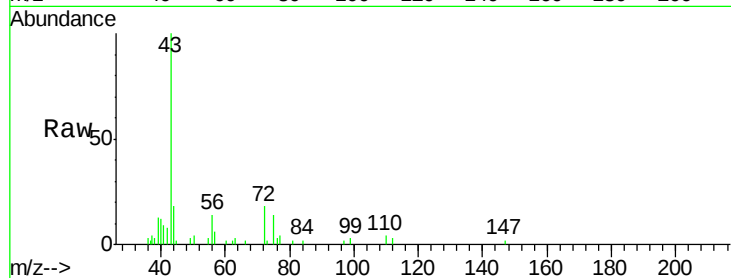
VSTDIC005

Manual Integrations

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1/9/2019 11:44:39 AM



#26

2,2-Dichloropropane

Concen: 6.102 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF061284.D

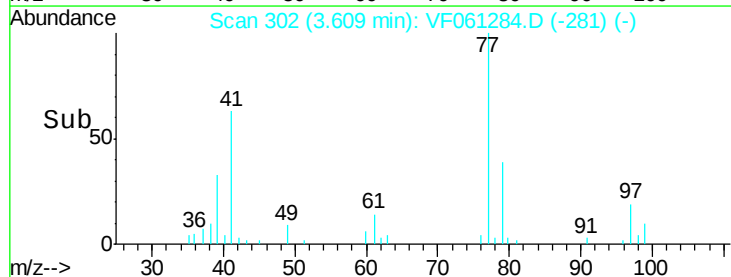
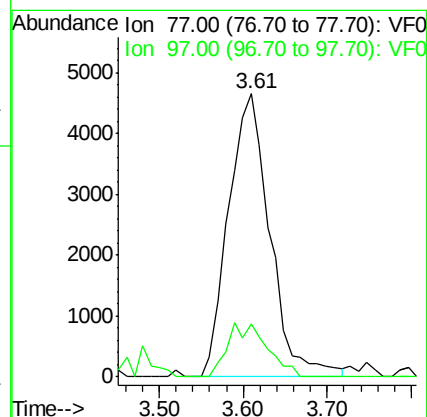
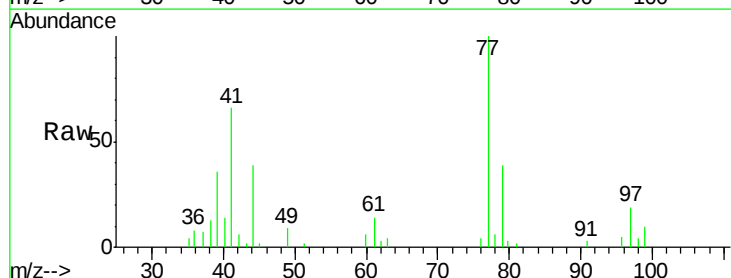
Acq: 8 Jan 2019 14:05

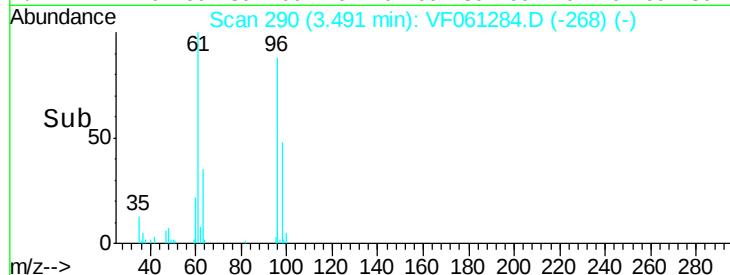
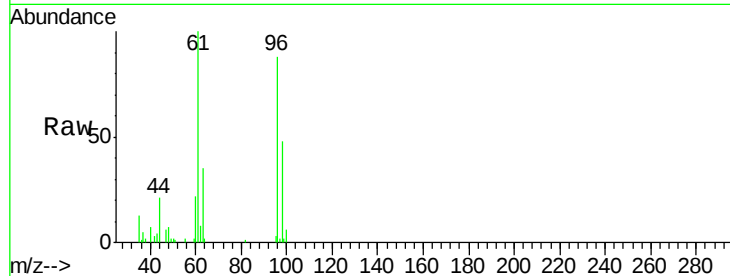
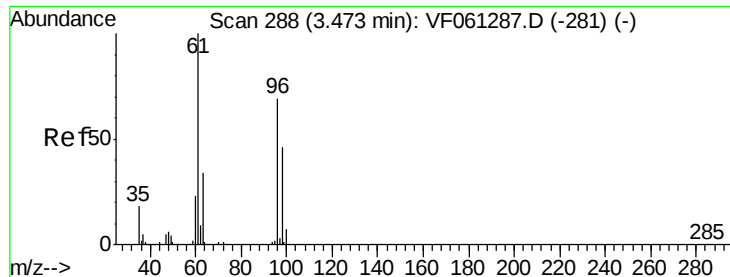
Tgt Ion: 77 Resp: 15948

Ion Ratio Lower Upper

77 100

97 18.5 8.6 25.9





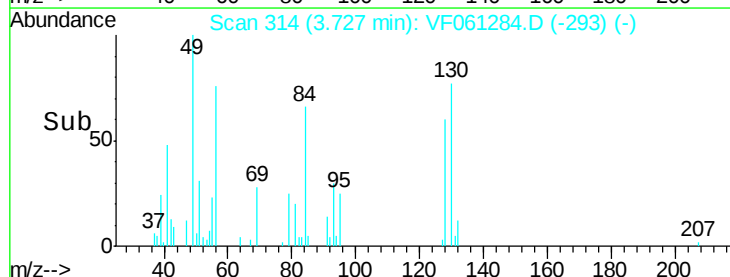
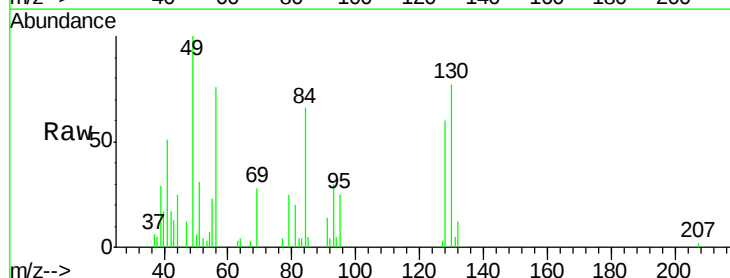
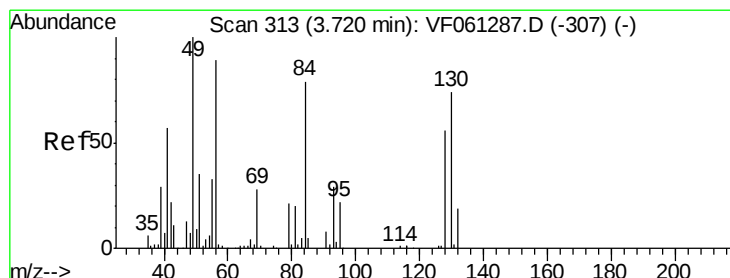
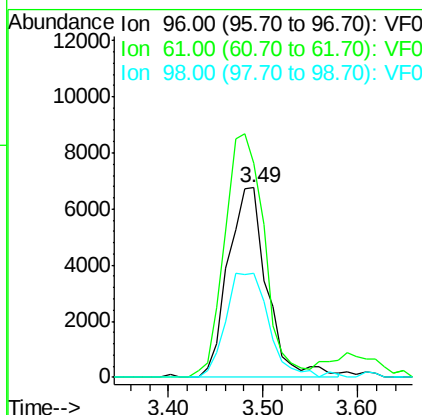
#27
 cis-1,2-Dichloroethene
 Concen: 5.614 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.02 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tot Ion:	96	Resp:	19322
Ion Ratio	Lower	Upper	
96	100		
61	113.4	0.0	288.2
98	54.8	0.0	132.2

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

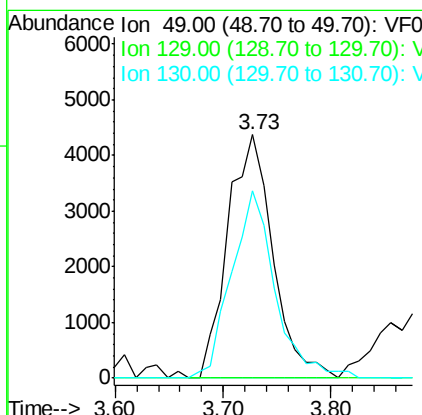
Manual Integrations
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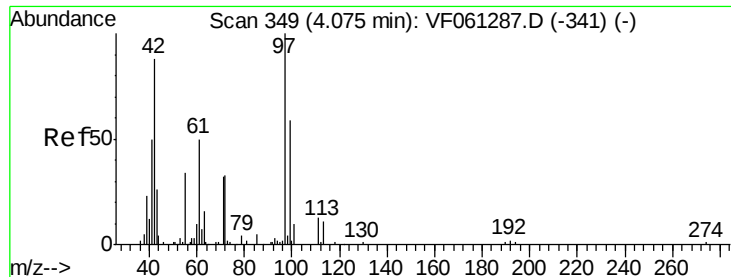
MMDadoda
 1/9/2019 11:44:39 AM



#28
 Bromochloromethane
 Concen: 5.911 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tgt Ion:	49	Resp:	12699
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	0.0
130	76.9	58.6	88.0





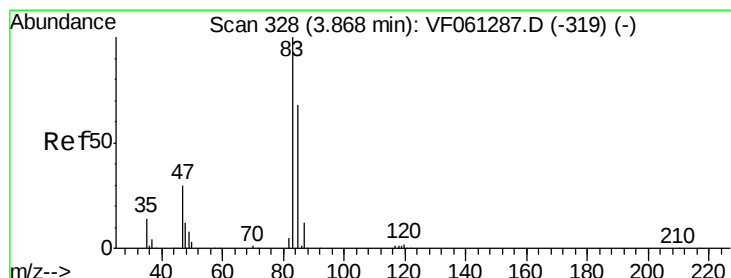
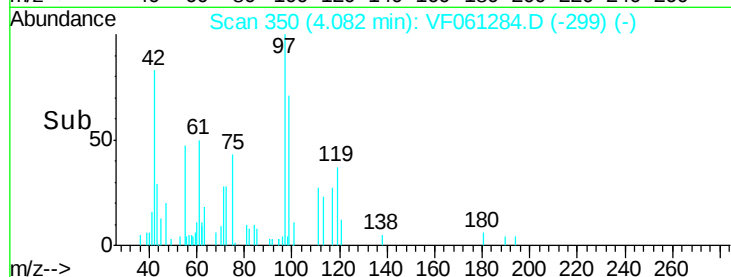
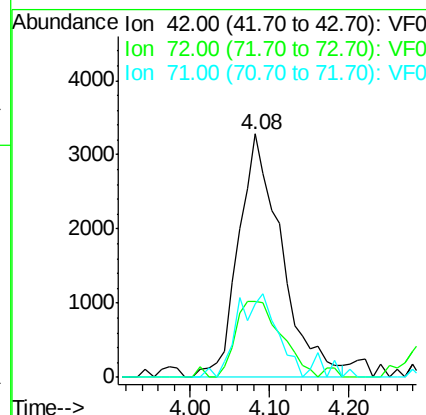
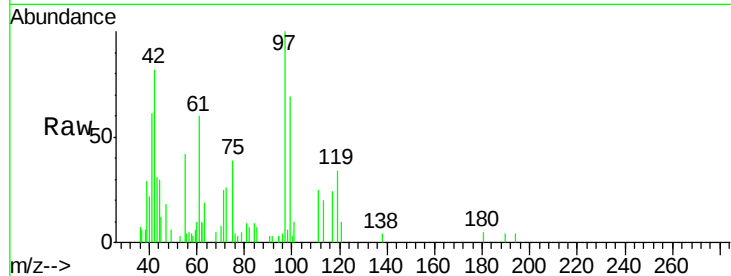
#29
Tetrahydrofuran
Concen: 28.699 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.0	32.3	48.5
71	32.0	29.5	44.3

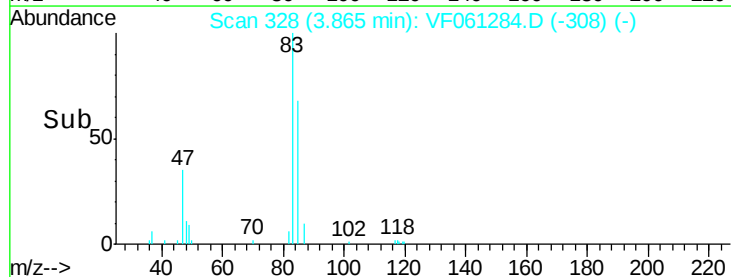
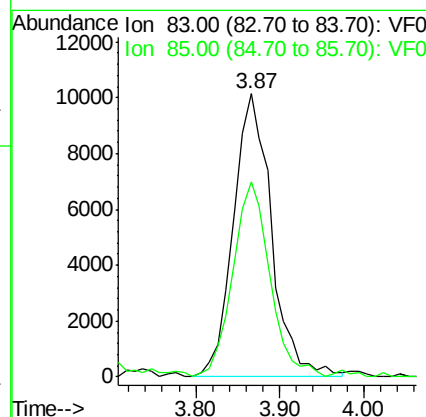
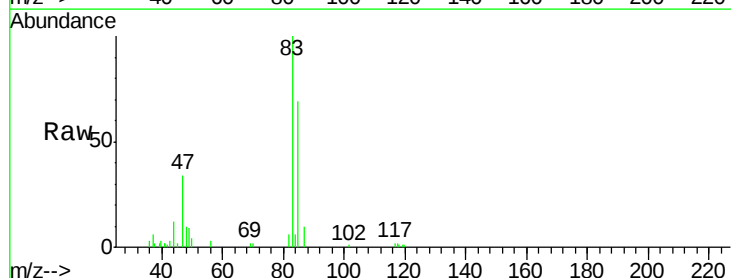
Manual Integrations
APPROVED

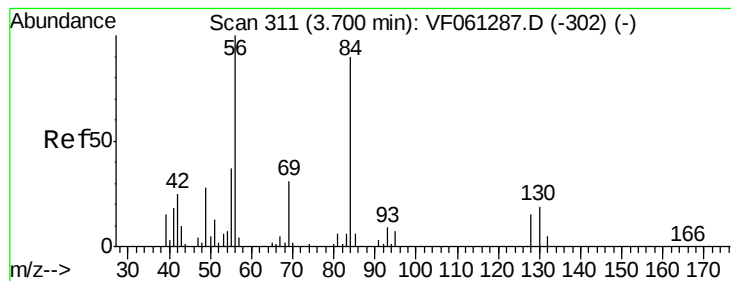
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#30
Chloroform
Concen: 5.038 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.1	54.4	81.6





#31

Cyclohexane

Concen: 5.809 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

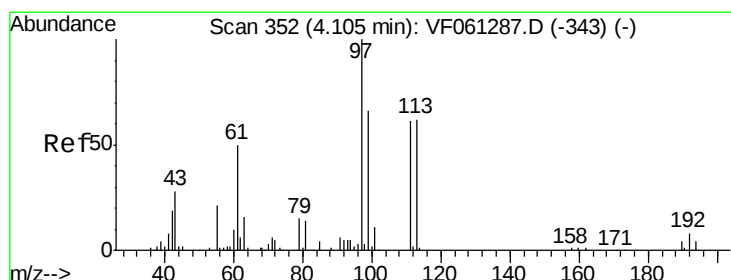
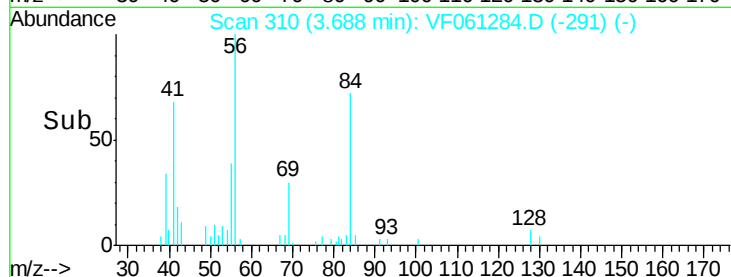
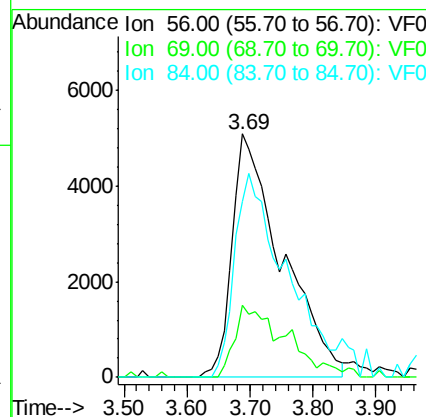
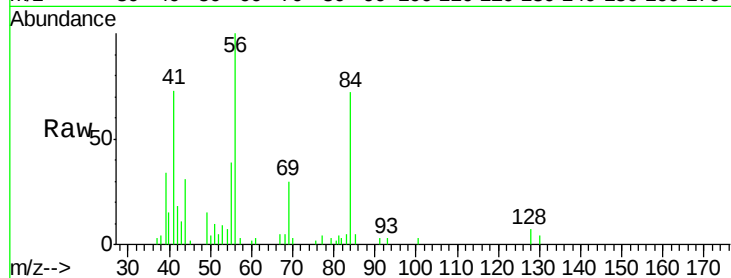
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	27942
Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.7	37.1
84	72.4	72.2	108.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 5.820 ug/l

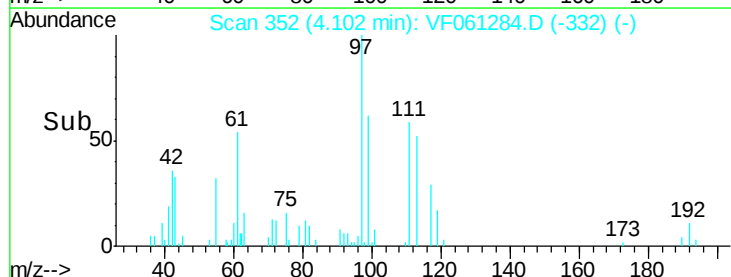
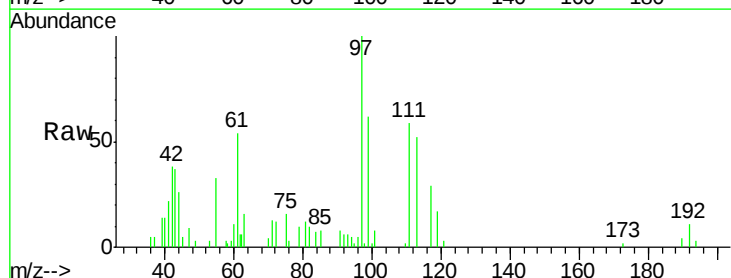
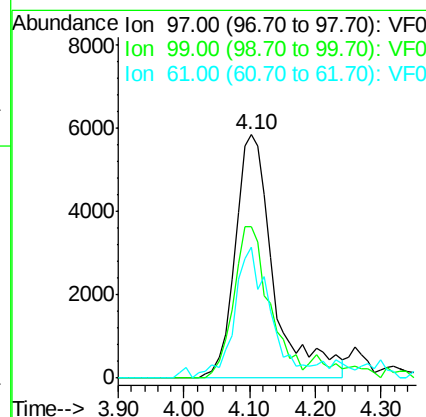
RT: 4.10 min Scan# 352

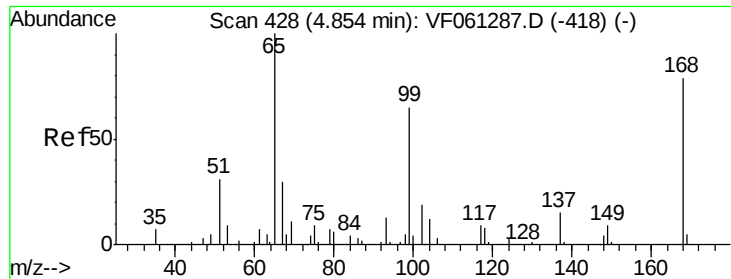
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	97	Resp:	23999
Ion	Ratio	Lower	Upper
97	100		
99	62.1	52.7	79.1
61	54.0	40.8	61.2





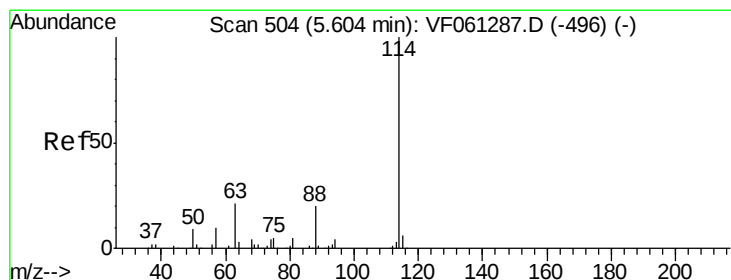
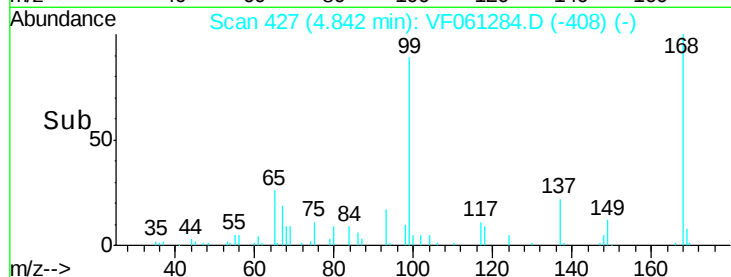
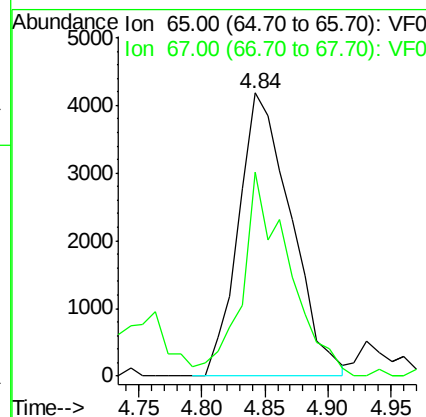
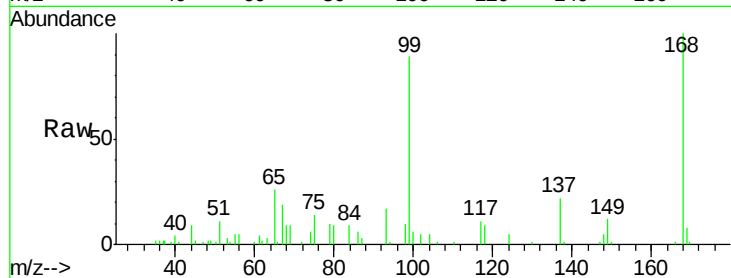
#33
 1,2-Dichloroethane-d4
 Concen: 4.116 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	12083		
67	72.0	0.0	98.2	

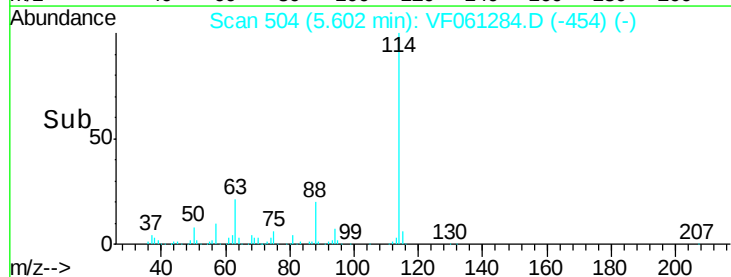
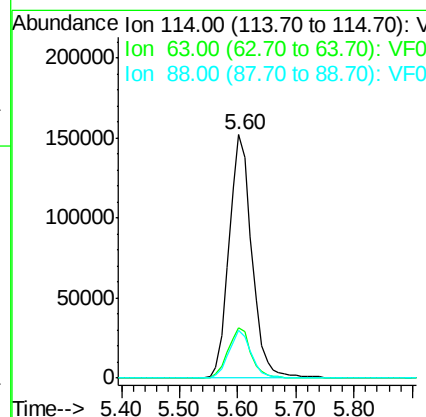
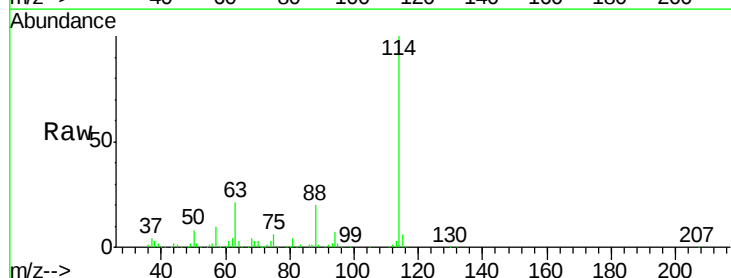
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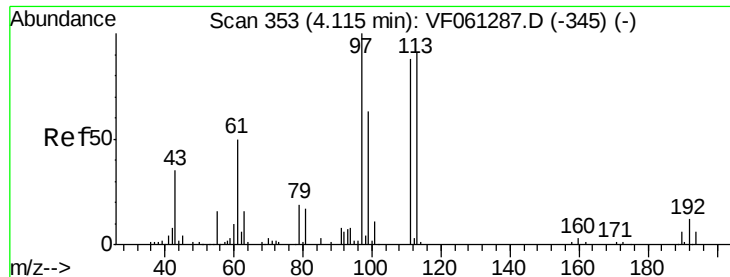
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	415781		
63	20.7	0.0	42.8	
88	19.6	0.0	40.0	





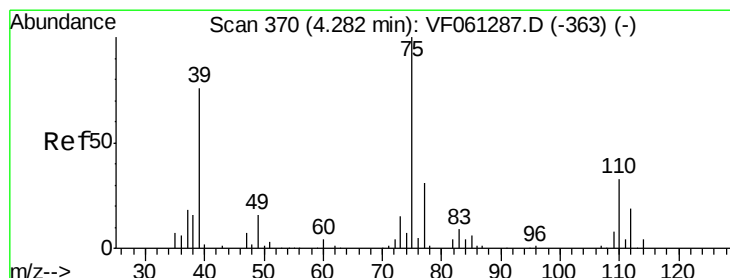
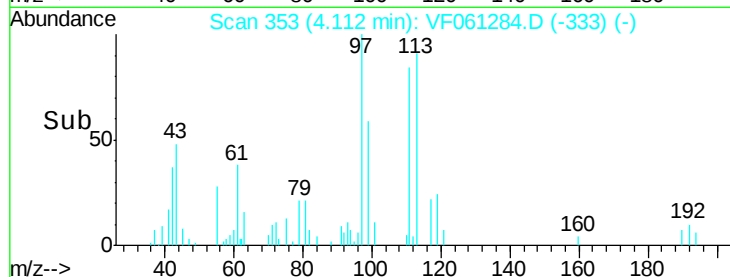
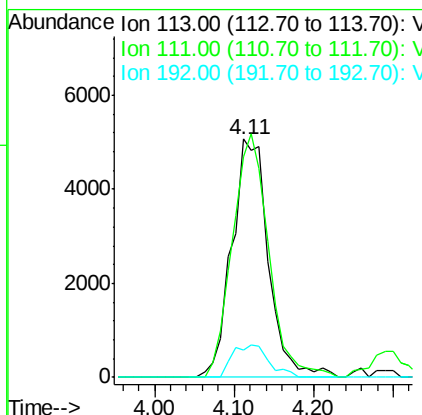
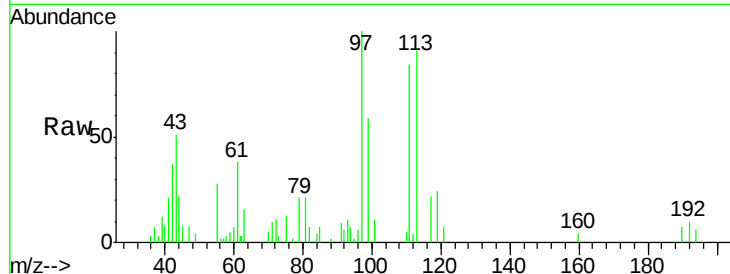
#35
Dibromofluoromethane
Concen: 5.054 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	92.5	78.0	117.0
192	11.4	10.6	16.0

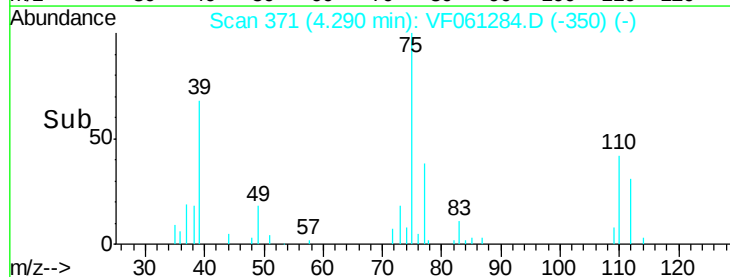
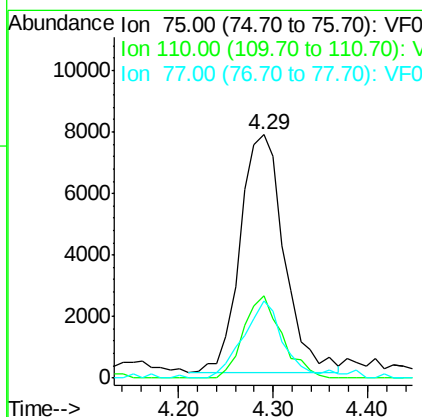
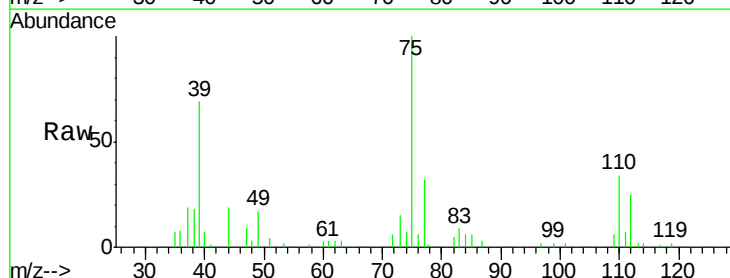
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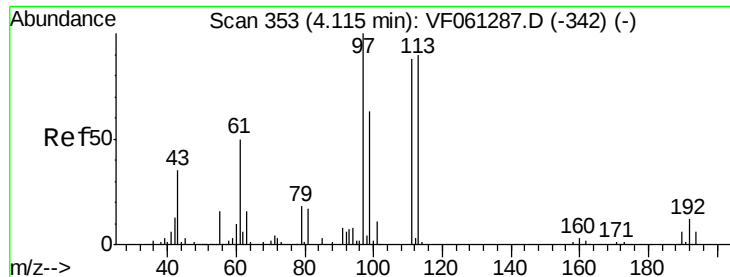
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#36
1,1-Dichloropropene
Concen: 5.127 ug/l
RT: 4.29 min Scan# 371
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.6	49.8
77	31.8	25.1	37.7





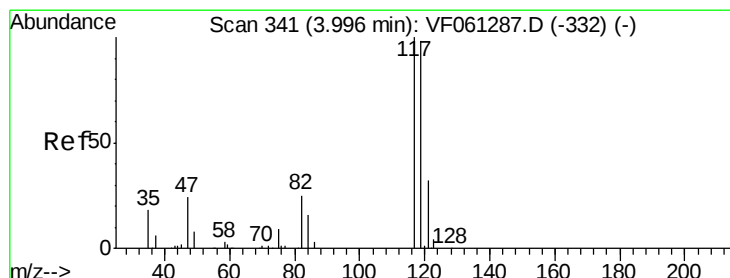
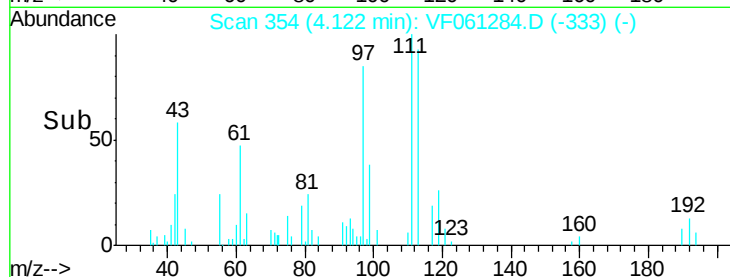
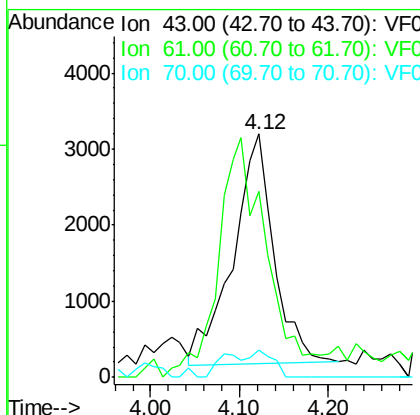
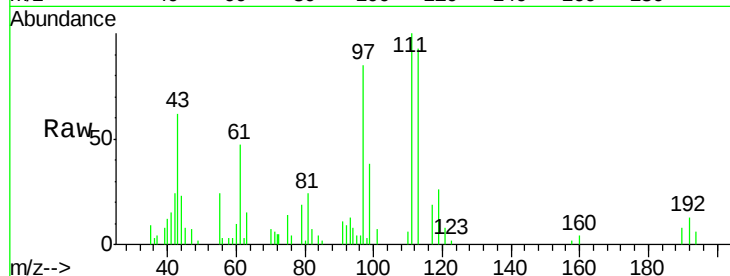
#37
Ethyl Acetate
Concen: 4.951 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 9680
Ion Ratio Lower Upper
43 100
61 76.5 113.3 169.9#
70 11.1 9.4 14.0

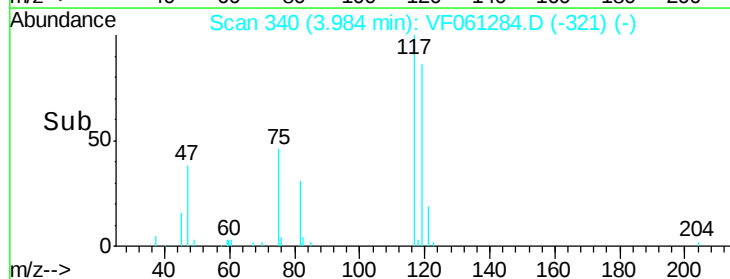
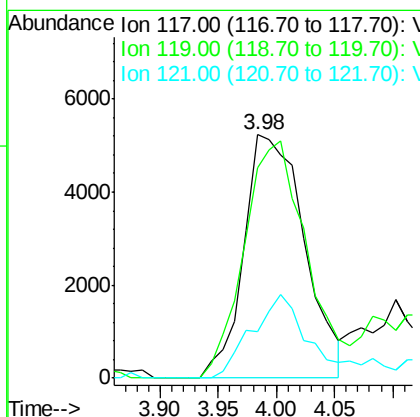
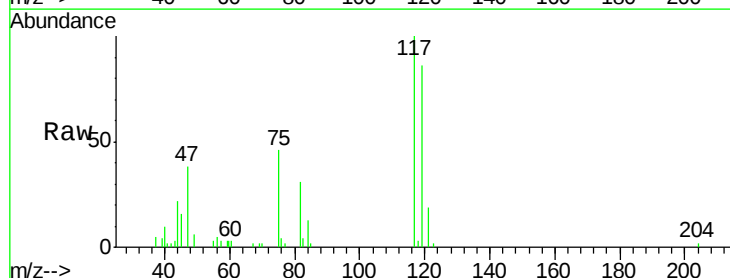
Manual Integrations
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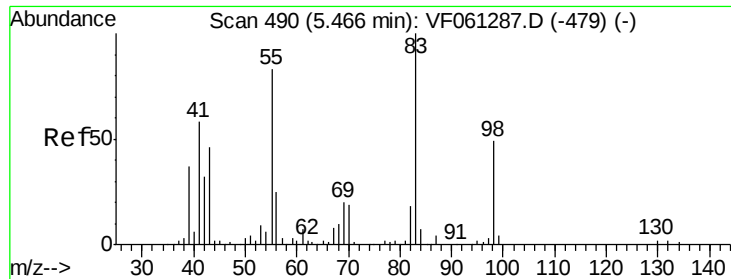
MMDadoda
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#38
Carbon Tetrachloride
Concen: 4.816 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion: 117 Resp: 18879
Ion Ratio Lower Upper
117 100
119 86.3 78.5 117.7
121 19.3 25.3 37.9#





#39

Methvlcvclohexane

Concen: 5.788 ug/l

RT: 5.45 min Scan# 489

Delta R.T. -0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

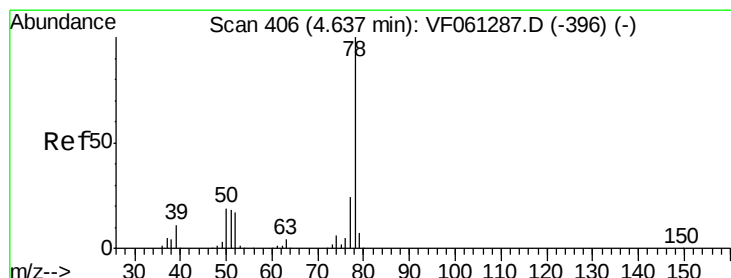
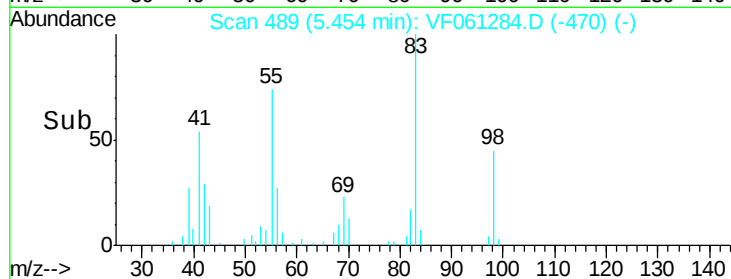
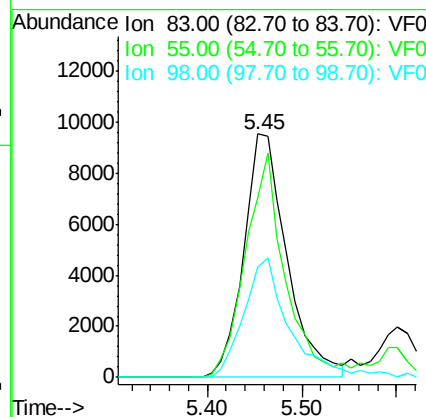
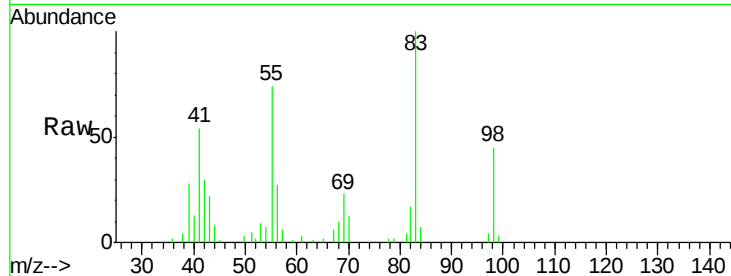
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	30296
Ion	Ratio	Lower	Upper
83	100		
55	73.5	66.4	99.6
98	45.4	39.1	58.7

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#40

Benzene

Concen: 5.483 ug/l

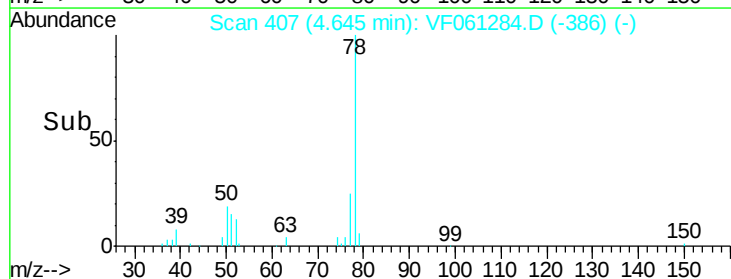
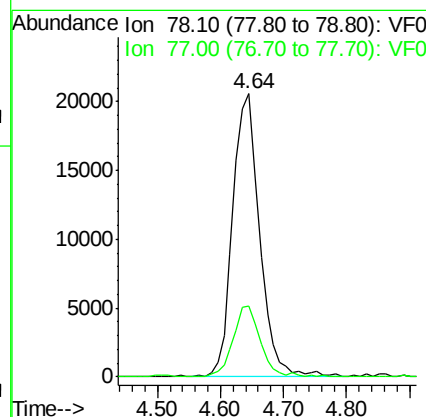
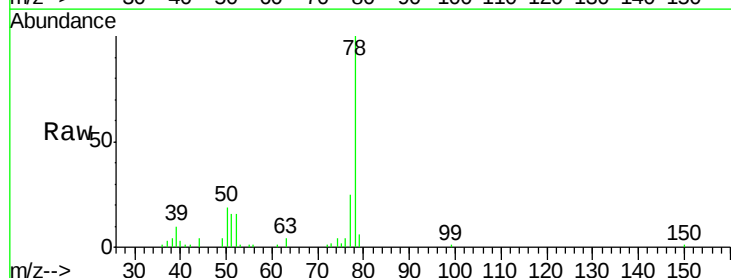
RT: 4.64 min Scan# 407

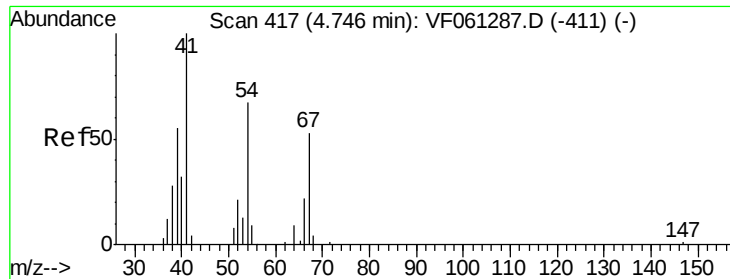
Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	78	Resp:	60935
Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.1	28.7





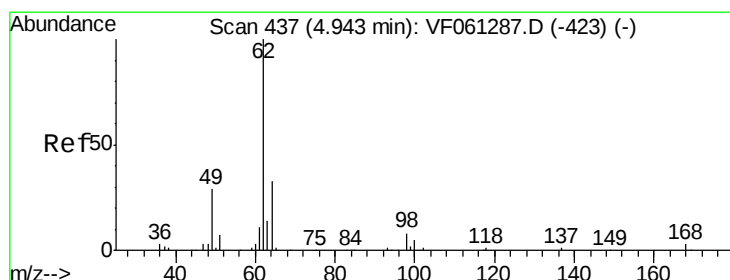
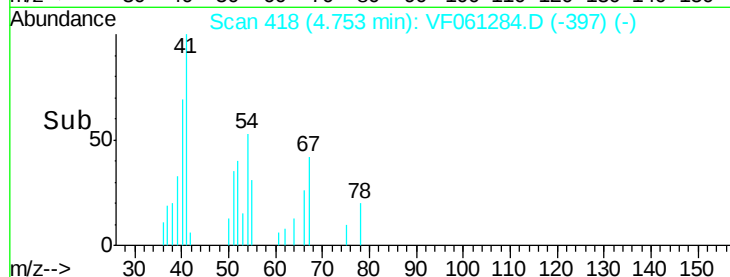
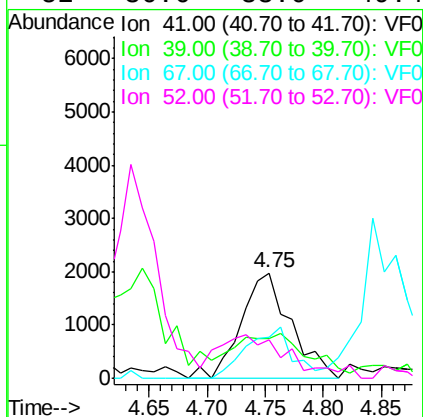
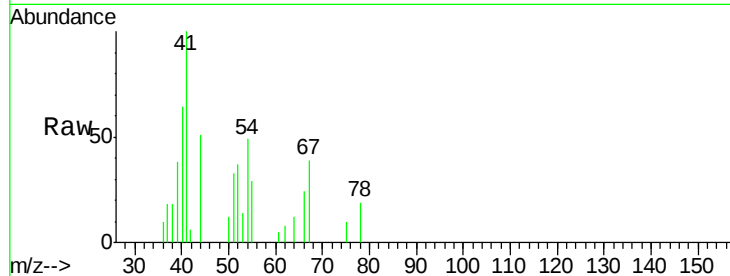
#41
Methacrylonitrile
Concen: 5.258 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	37.6	52.7	79.1#	
67	38.6	41.4	62.2#	
52	36.6	33.0	49.4	

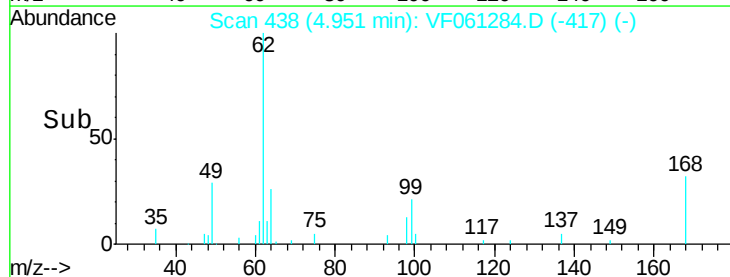
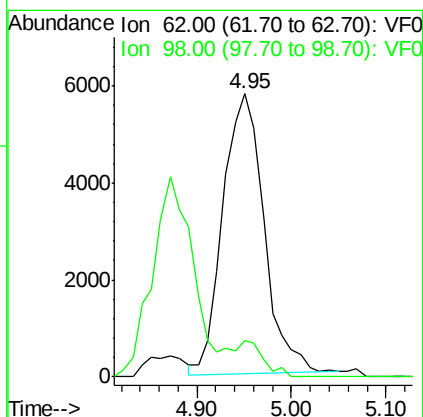
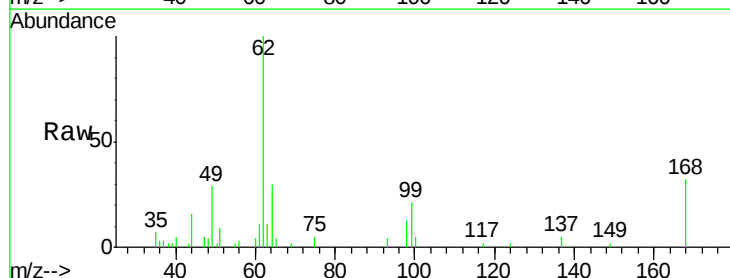
Manual Integrations
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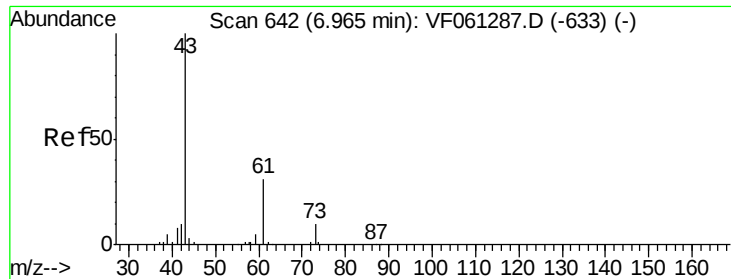
MMDadoda
1/9/2019 11:44:39 AM



#42
1,2-Dichloroethane
Concen: 4.689 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	12.9	0.0	16.8	





#43

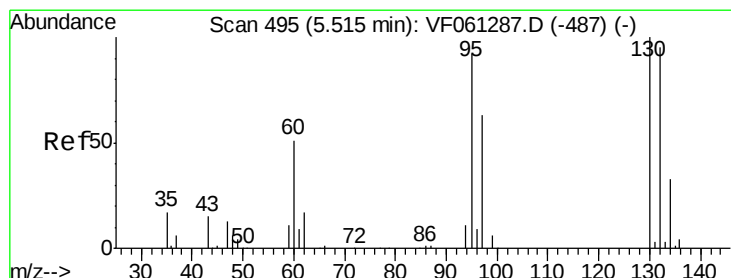
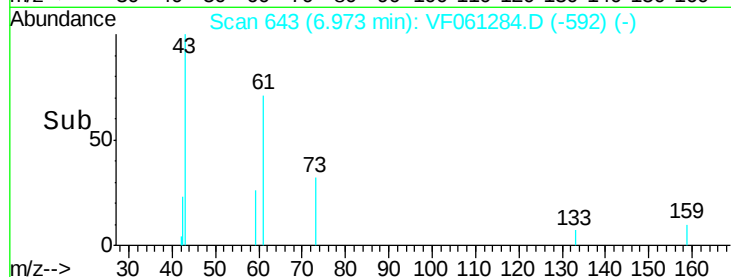
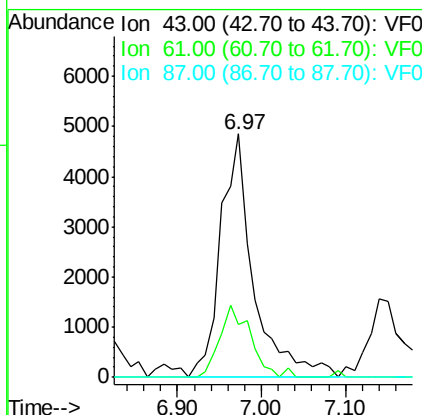
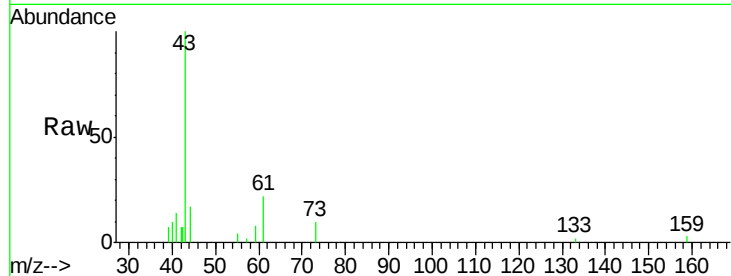
Isopropyl Acetate
 Concen: 5.049 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.01 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	43	61	87
Resp	13171		
Ratio	100	21.9	0.0
Lower		24.3	0.2
Upper		36.5#	0.4#

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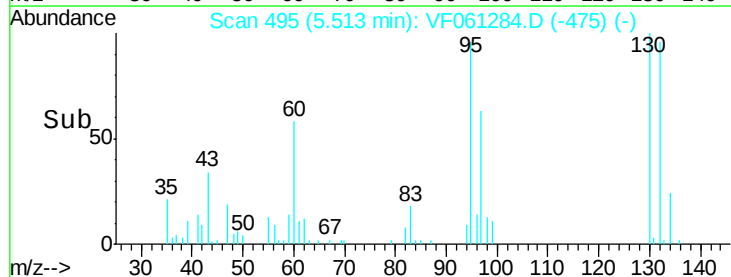
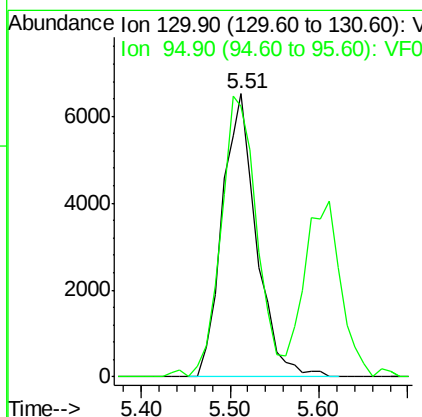
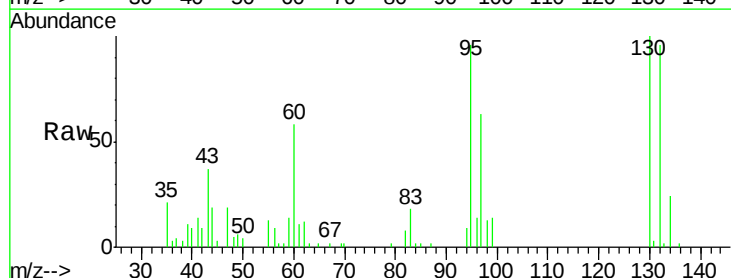
MMDadoda
 1/9/2019 11:44:39 AM

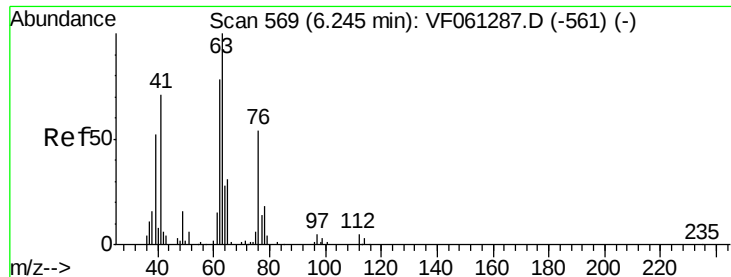


#44

Trichloroethene
 Concen: 5.068 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tgt Ion	130	95
Resp	17532	
Ratio	100	95.6
Lower		0.0
Upper		184.4





#45

1,2-Dichloropropane

Concen: 4.993 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 14166

Ion Ratio Lower Upper

63 100

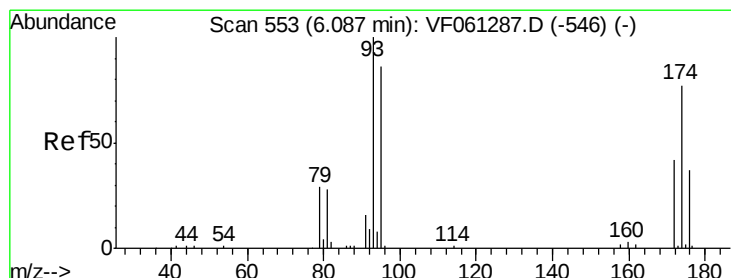
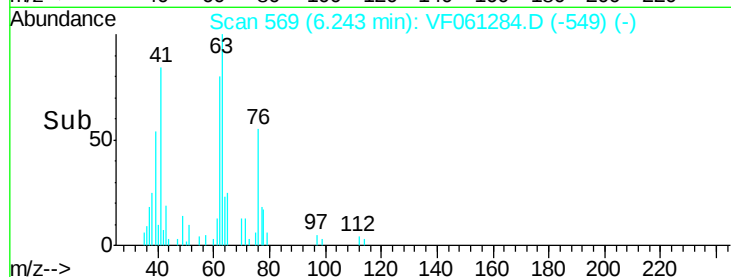
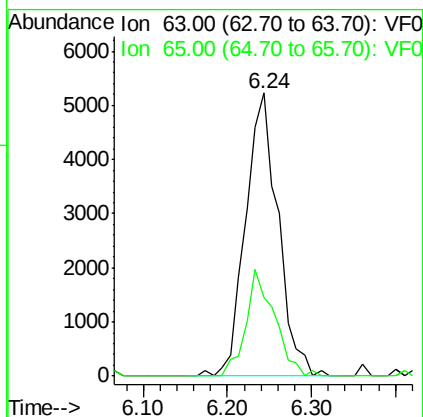
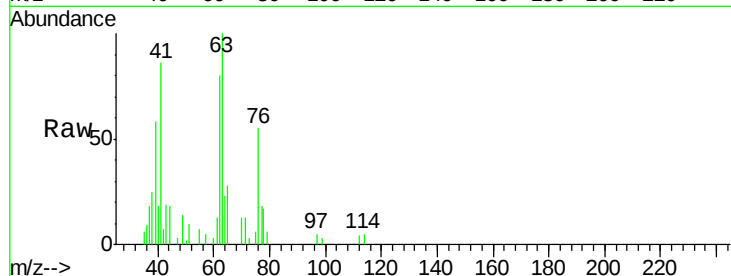
65 27.8 25.1 37.7

Manual Integrations

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#46

Dibromomethane

Concen: 4.417 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

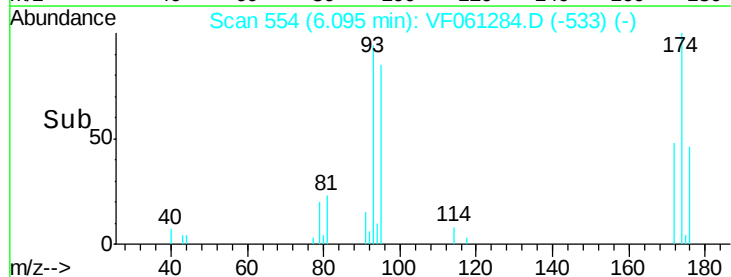
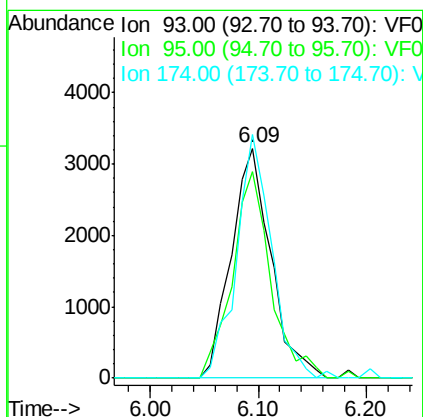
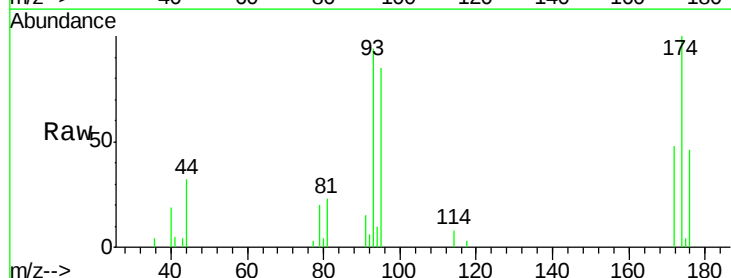
Tgt Ion: 93 Resp: 8246

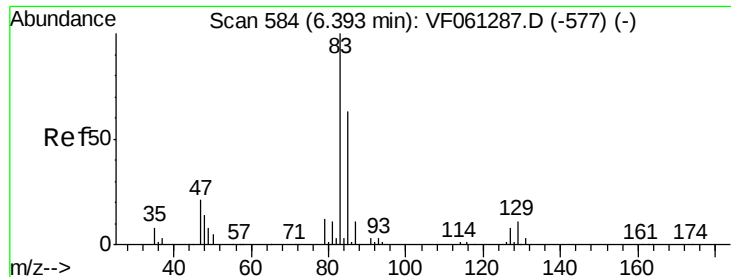
Ion Ratio Lower Upper

93 100

95 89.8 68.8 103.2

174 109.9 62.9 94.3#





#47

Bromodichloromethane

Concen: 4.531 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

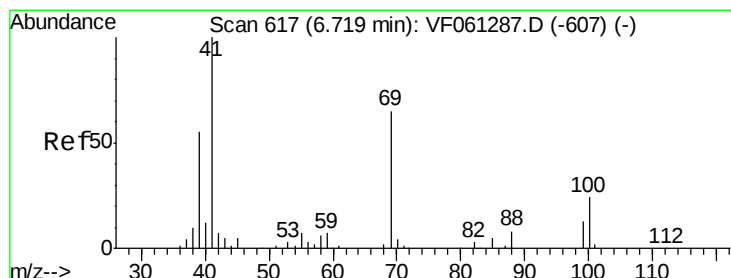
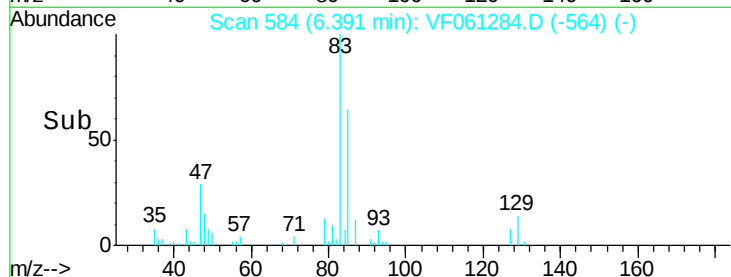
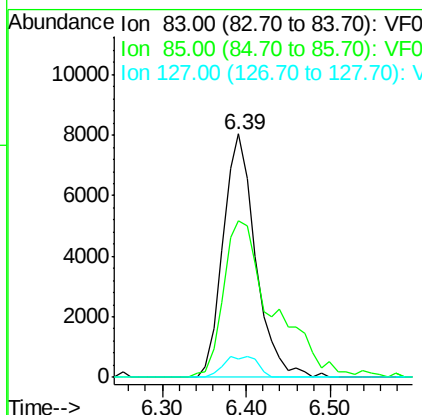
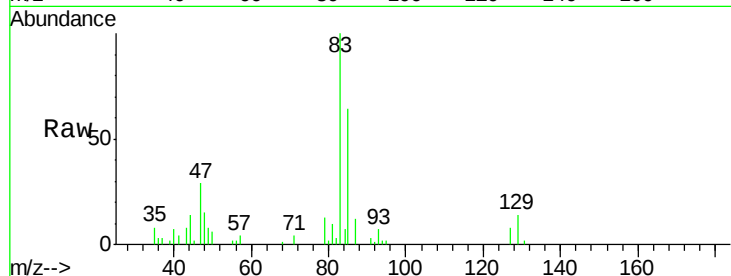
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	21533
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.4	75.6
127	7.5	6.4	9.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.034 ug/l

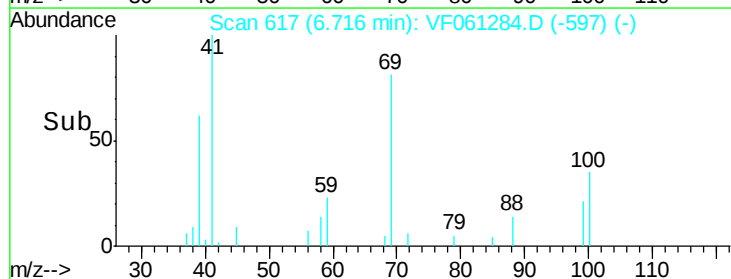
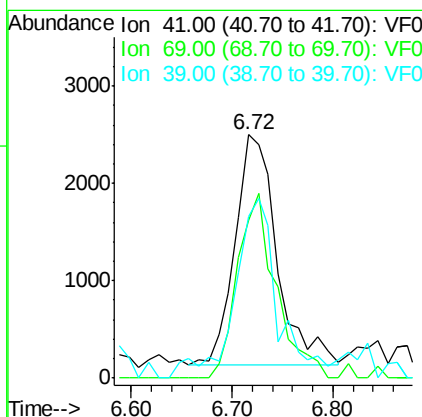
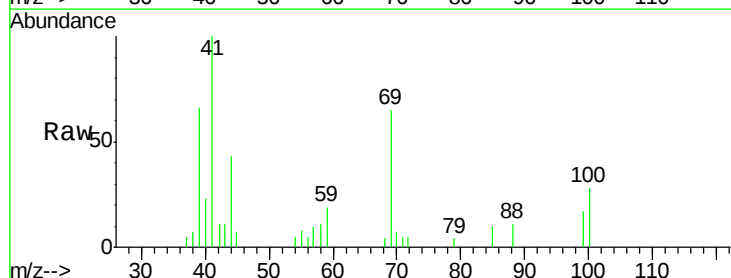
RT: 6.72 min Scan# 617

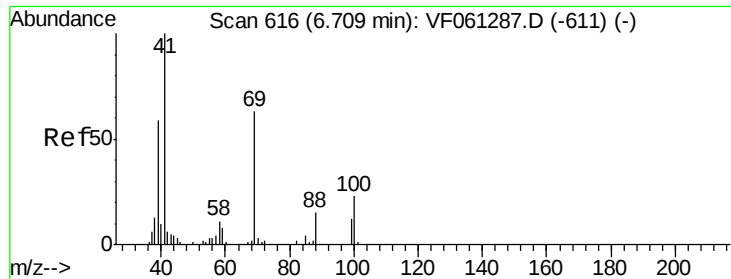
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	41	Resp:	6815
Ion	Ratio	Lower	Upper
41	100		
69	64.9	51.5	77.3
39	66.3	44.1	66.1#





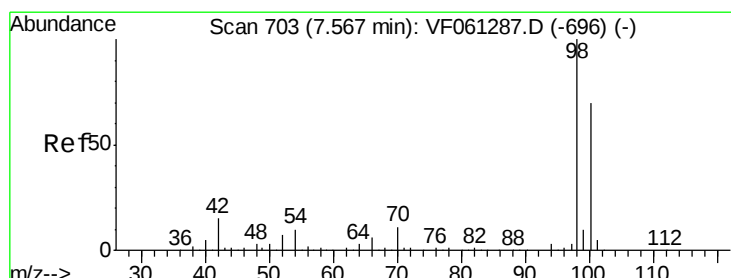
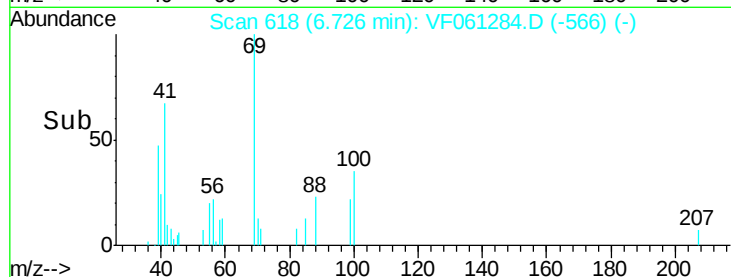
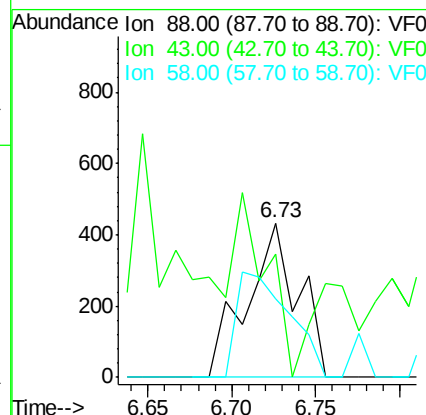
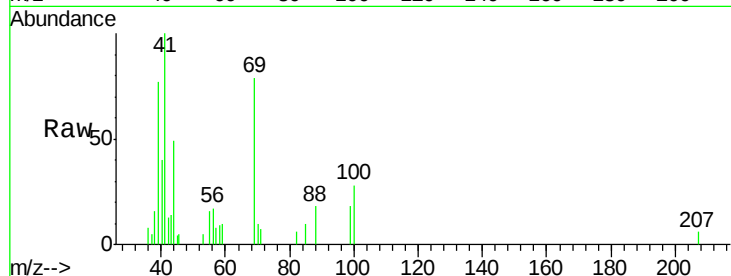
#49
1,4-Dioxane
Concen: 77.745 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	79.9	38.5	57.7#
58	50.8	57.0	85.4#

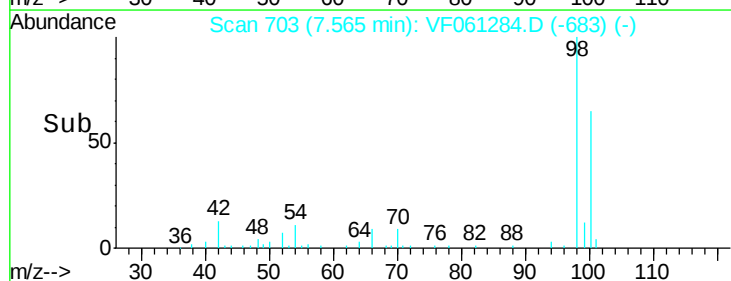
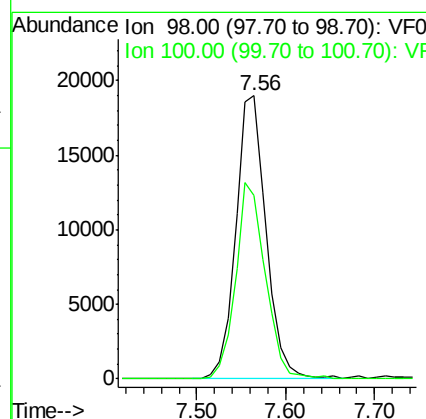
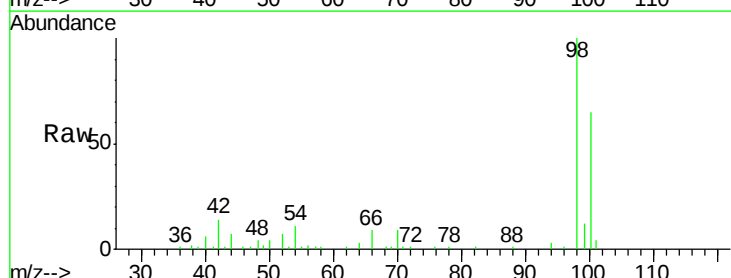
Manual Integrations
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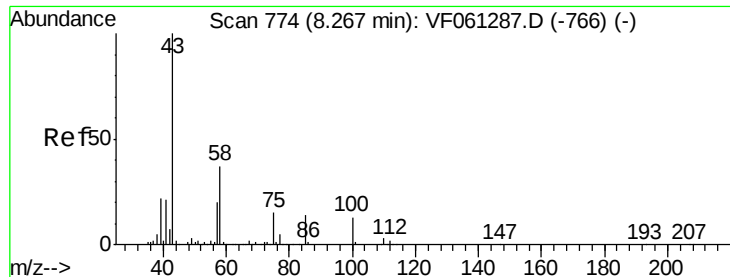
MMDadoda
1/9/2019 11:44:39 AM



#50
Toluene-d8
Concen: 4.752 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 25.783 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 46716

Ion Ratio Lower Upper

43 100

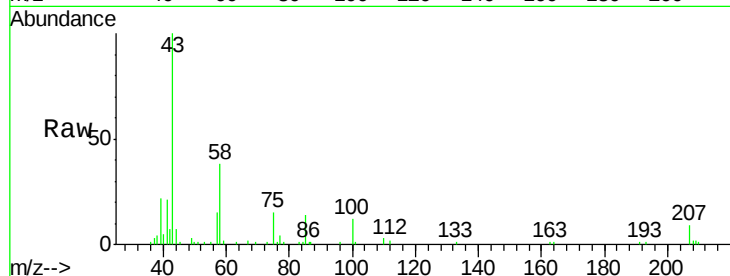
58 37.6 29.6 44.4

Manual Integrations

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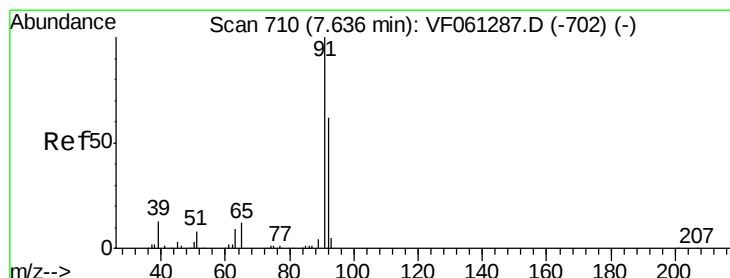
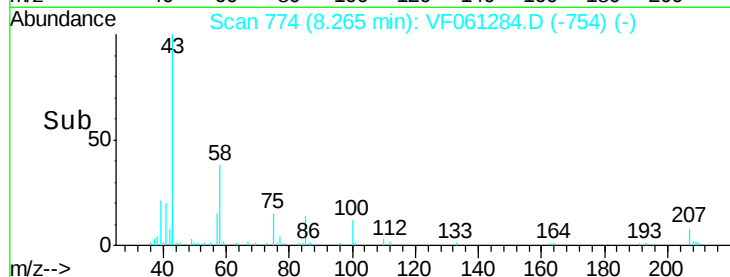
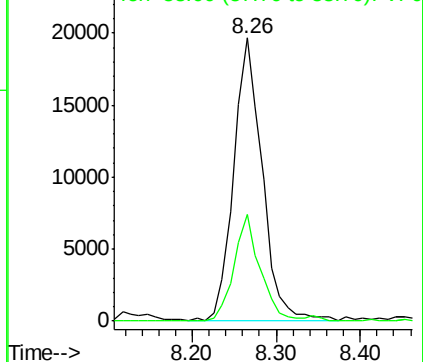
MMDadoda

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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: 5.150 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061284.D

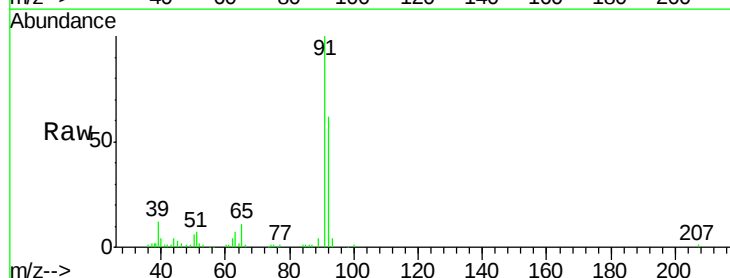
Acq: 8 Jan 2019 14:05

Tgt Ion: 92 Resp: 37375

Ion Ratio Lower Upper

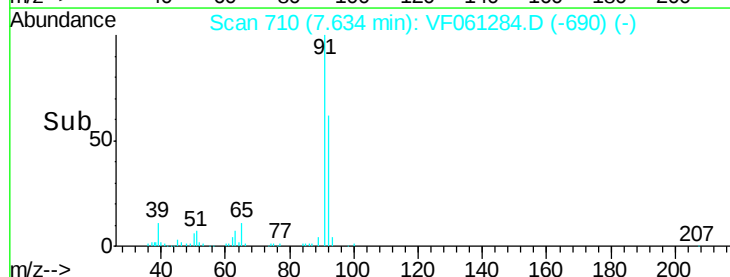
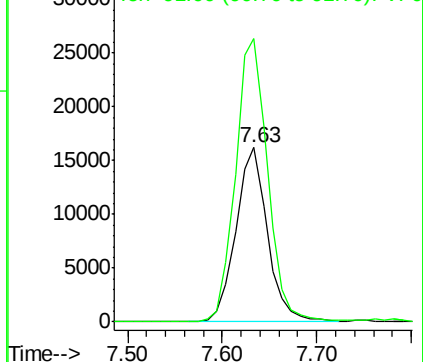
92 100

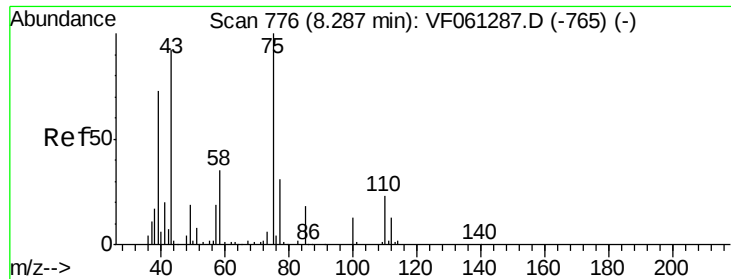
91 162.2 129.2 193.8



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: 4.556 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tot Ion: 75 Resp: 17651

Ion Ratio Lower Upper

75 100

77 29.7 24.7 37.1

Instrument :

MSVOA_F

ClientSampleId :

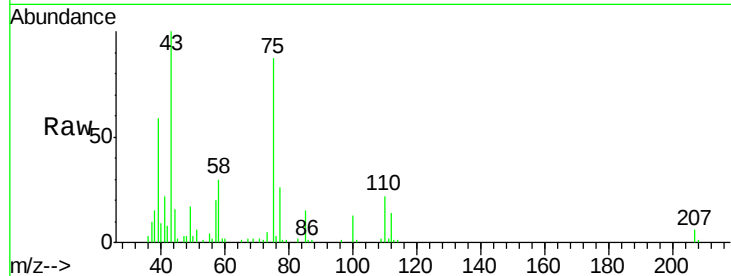
VSTDIC005

Manual Integrations

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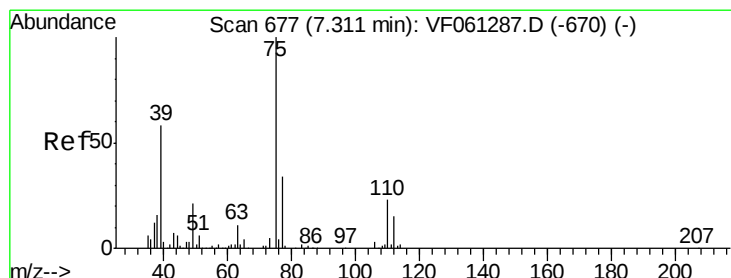
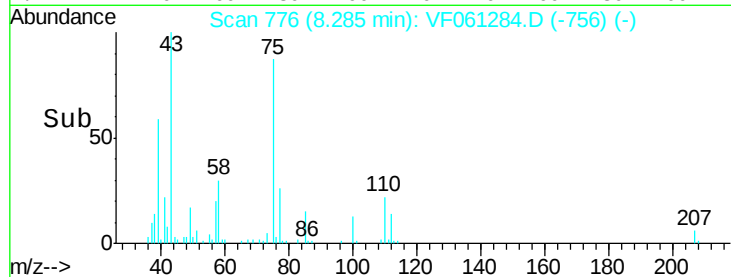
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.28

8.20 8.30 8.40

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.558 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

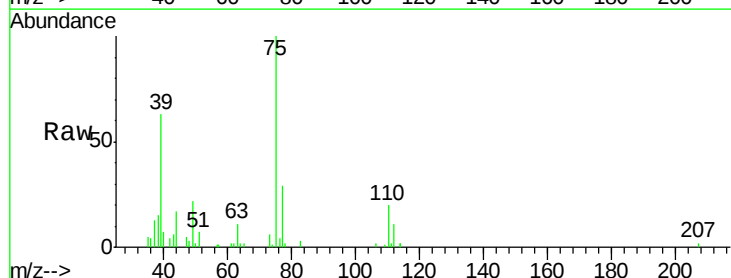
Tgt Ion: 75 Resp: 22444

Ion Ratio Lower Upper

75 100

77 29.3 27.3 40.9

39 62.5 46.3 69.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

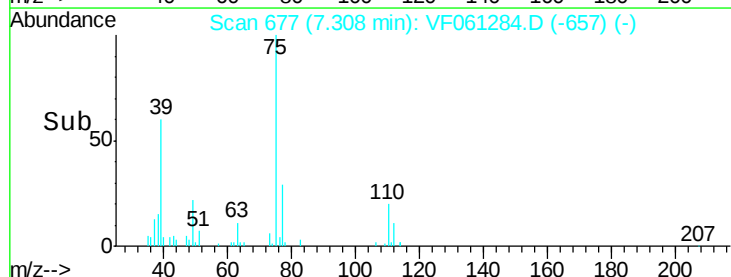
Ion 77.00 (76.70 to 77.70): VF0

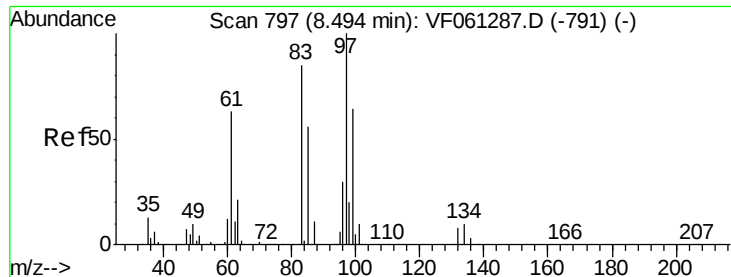
Ion 39.00 (38.70 to 39.70): VF0

7.31

7.20 7.30 7.40

Time-->





#55

1,1,2-Trichloroethane

Concen: 5.033 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

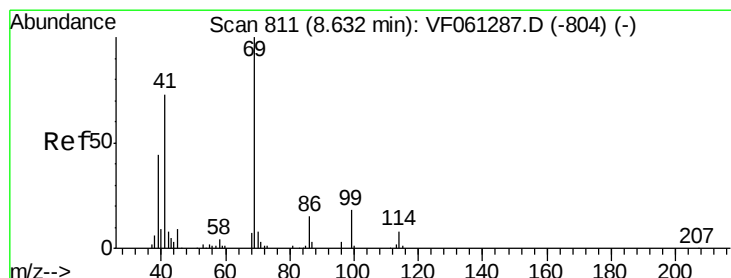
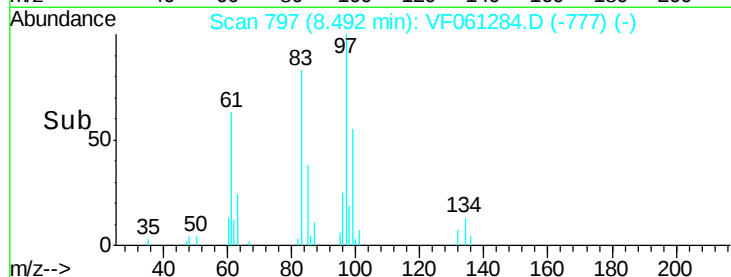
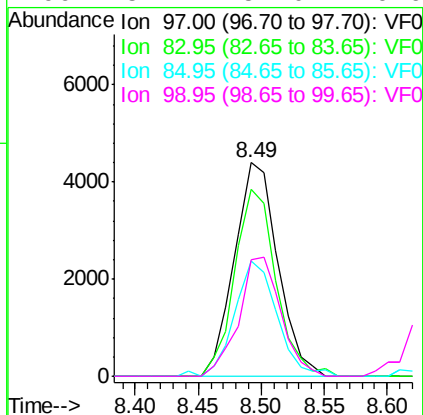
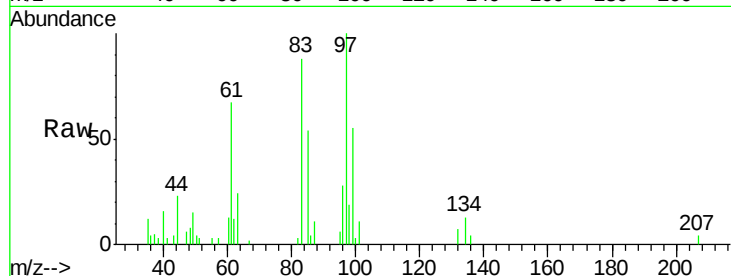
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	10503
Ion	Ratio	Lower	Upper
97	100		
83	87.6	67.8	101.6
85	54.1	45.1	67.7
99	54.7	51.0	76.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 4.695 ug/l

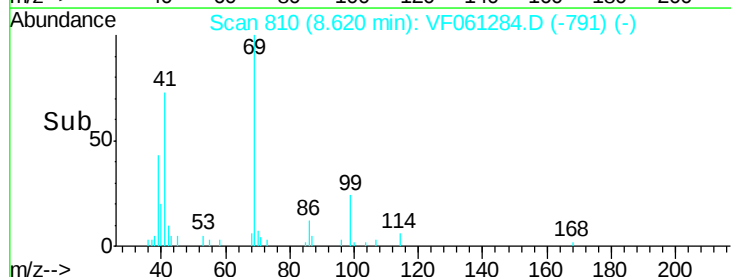
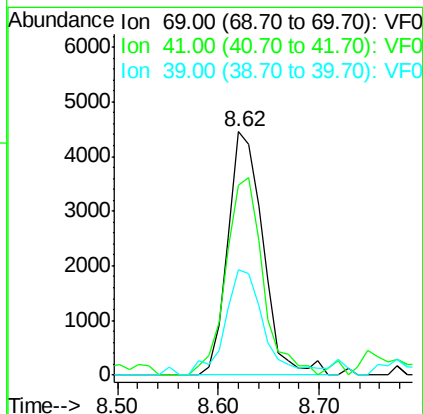
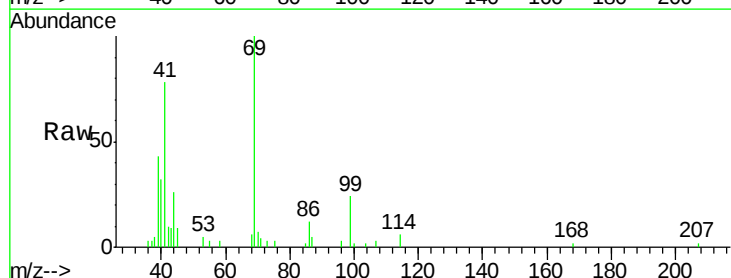
RT: 8.62 min Scan# 810

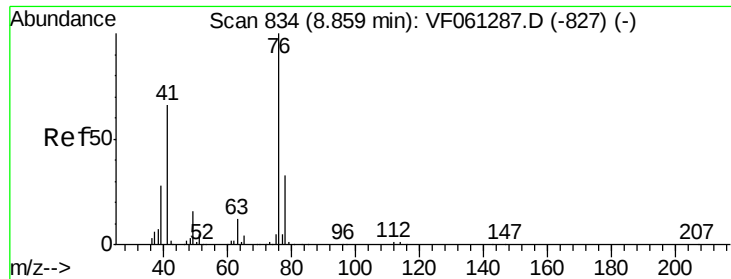
Delta R.T. -0.01 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	69	Resp:	10828
Ion	Ratio	Lower	Upper
69	100		
41	77.8	59.0	88.4
39	43.1	35.3	52.9





#57

1,3-Dichloropropane

Concen: 4.694 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 18415

Ion Ratio Lower Upper

76 100

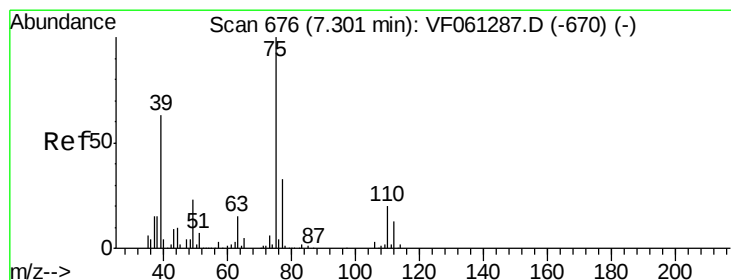
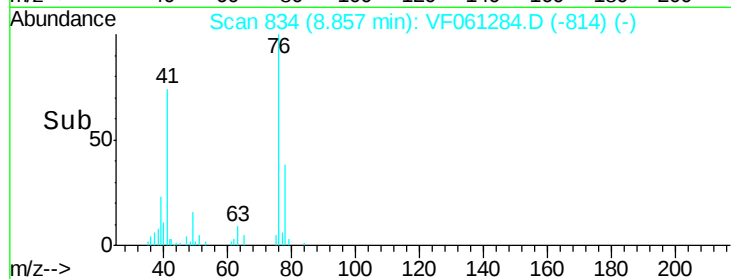
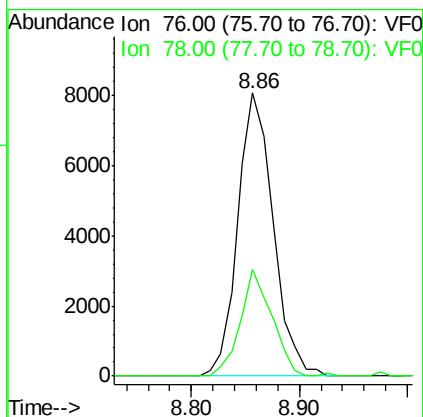
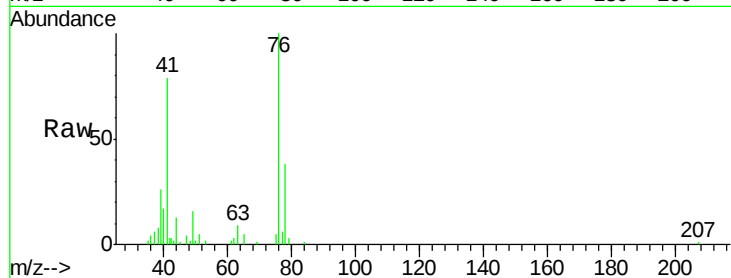
78 37.5 26.8 40.2

Manual Integrations

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1/9/2019 11:44:39 AM



#58

2-Chloroethyl Vinyl ether

Concen: 9.048 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.01 min

Lab File: VF061284.D

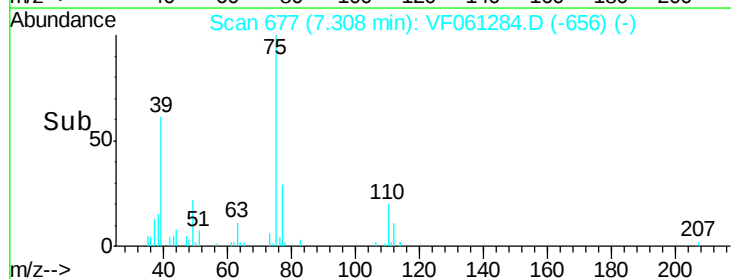
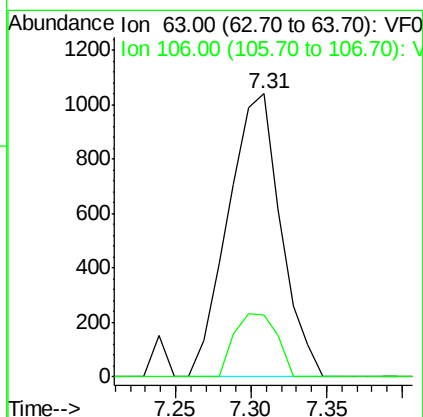
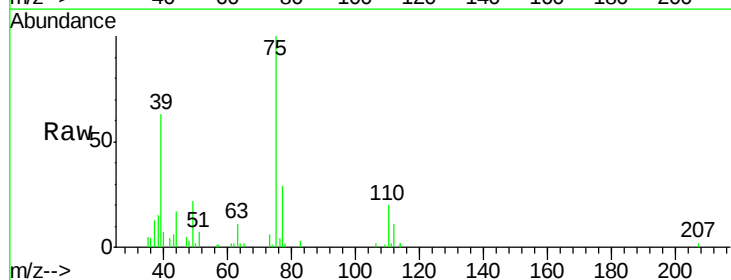
Acq: 8 Jan 2019 14:05

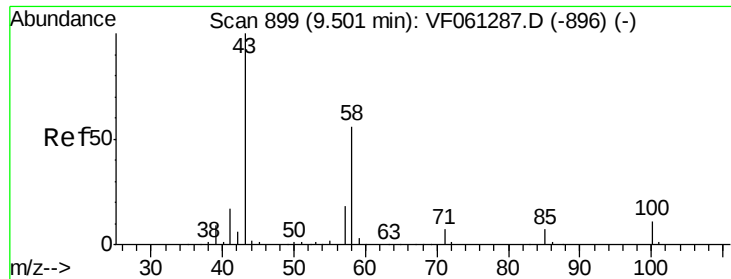
Tgt Ion: 63 Resp: 2534

Ion Ratio Lower Upper

63 100

106 22.1 16.5 24.7





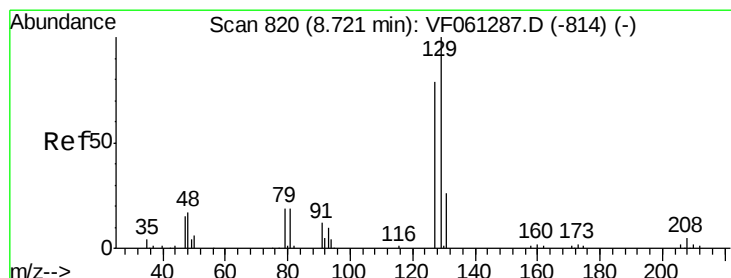
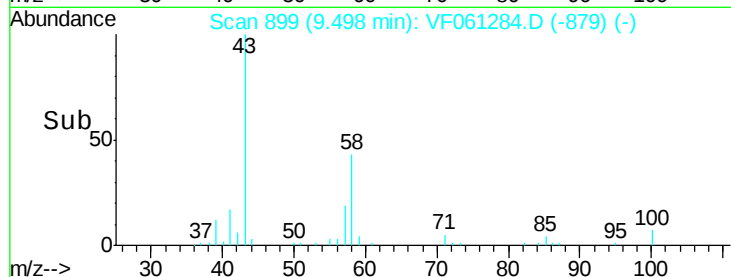
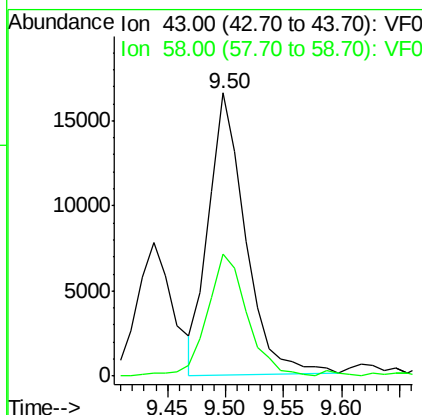
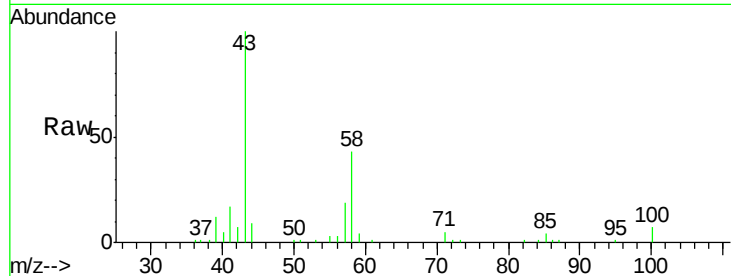
#59
2-Hexanone
Concen: 27.643 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 36260
Ion Ratio Lower Upper
43 100
58 43.0 25.6 76.8

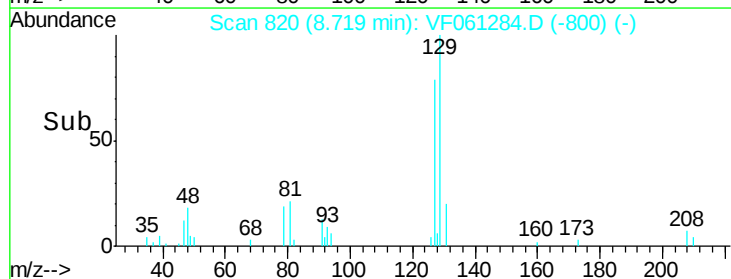
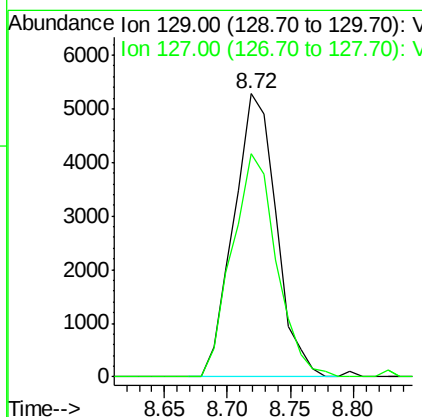
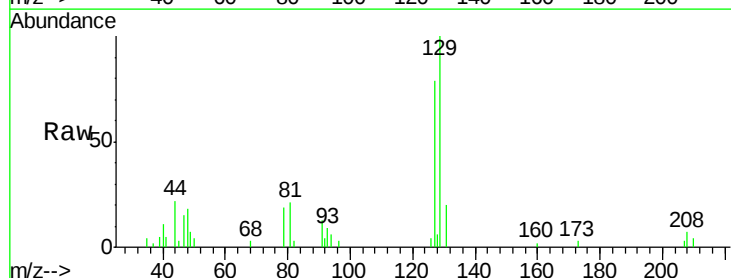
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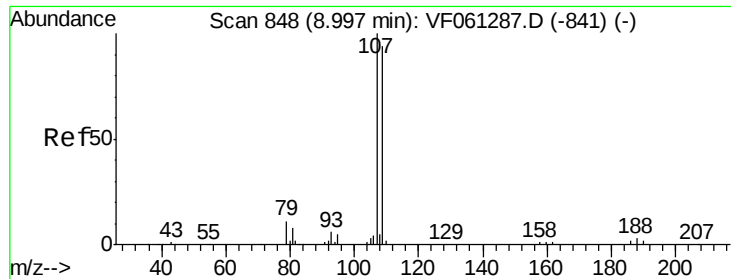
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#60
Dibromochloromethane
Concen: 4.178 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion: 129 Resp: 12385
Ion Ratio Lower Upper
129 100
127 79.0 39.4 118.1





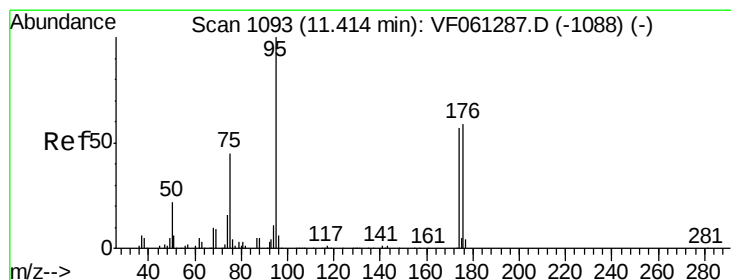
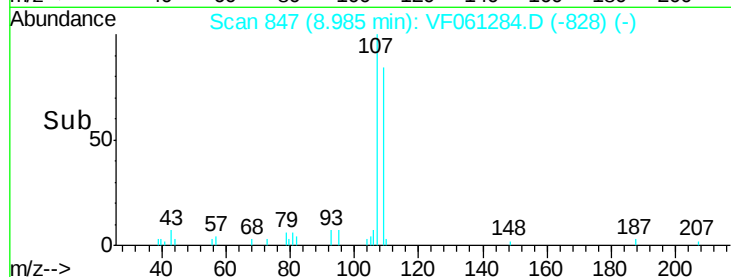
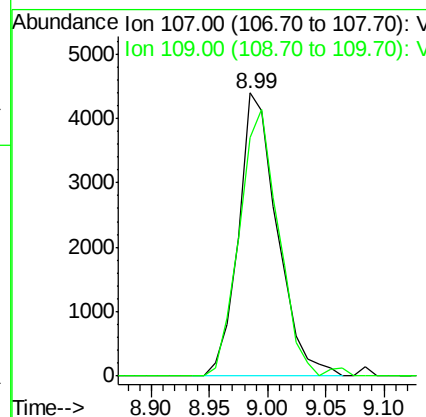
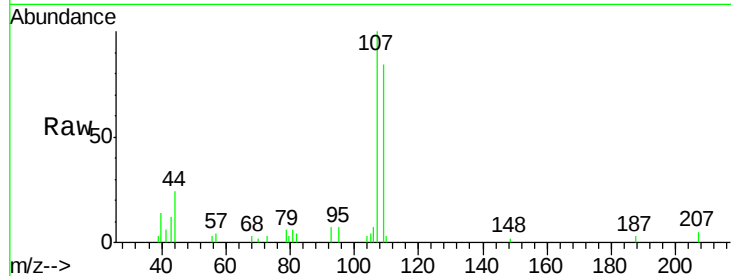
#61
1,2-Dibromoethane
Concen: 4.500 ug/l
RT: 8.99 min Scan# 847
Delta R.T. -0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	84.2	75.1	112.7

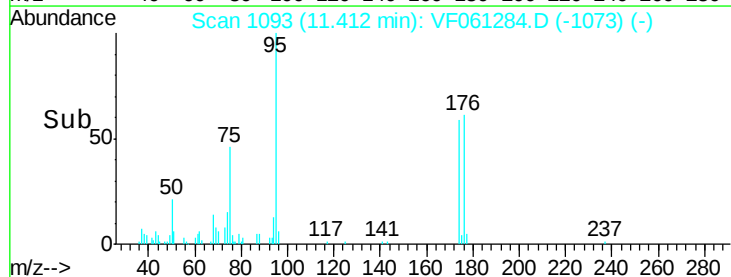
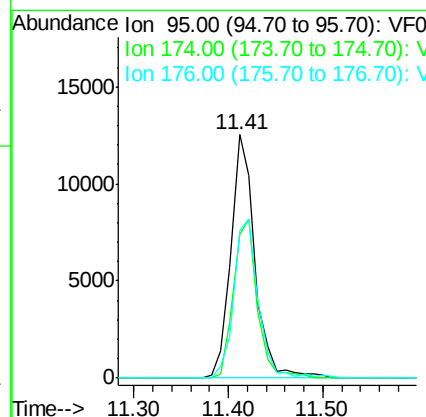
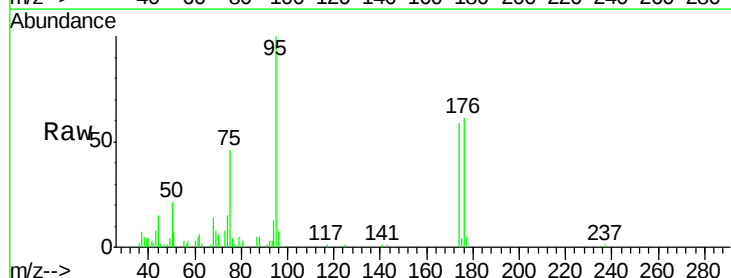
Manual Integrations
APPROVED

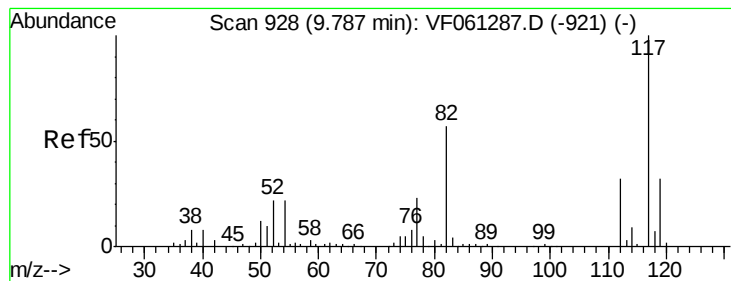
MMDadoda
1/9/2019 11:44:39 AM



#62
4-Bromofluorobenzene
Concen: 5.256 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
95	100		
174	59.1	0.0	114.2
176	60.6	0.0	117.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

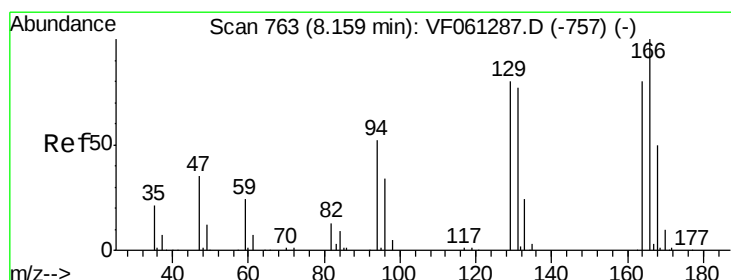
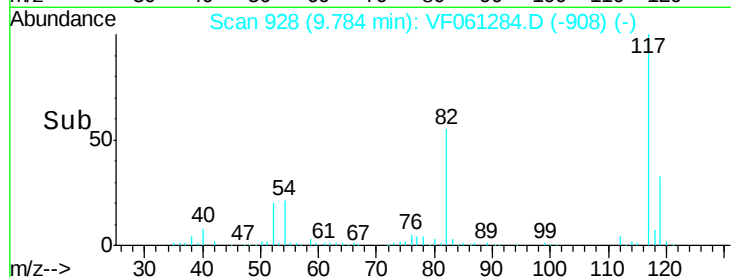
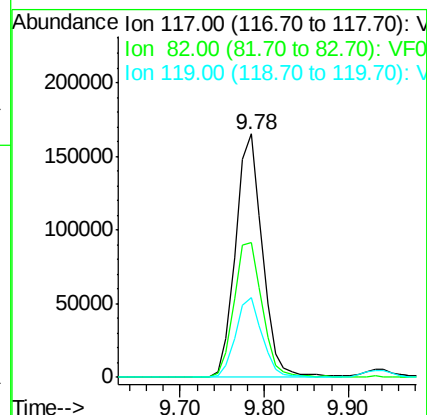
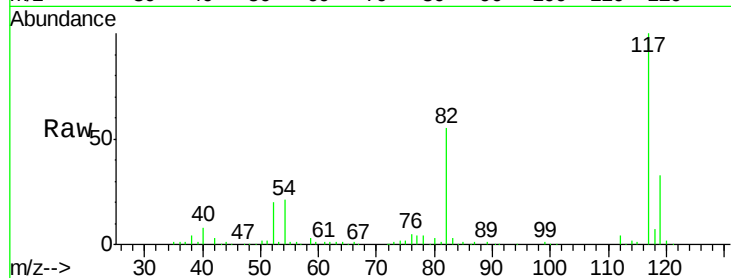
ClientSampleId :

VSTDIC005

Tot Ion:117	Resp:	366445
Ion Ratio	Lower	Upper
117 100		
82 55.4	45.3	67.9
119 32.8	25.4	38.0

Manual Integrations
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#64

Tetrachloroethene

Concen: 4.893 ug/l

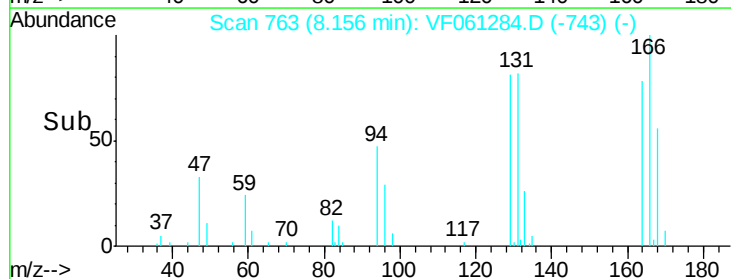
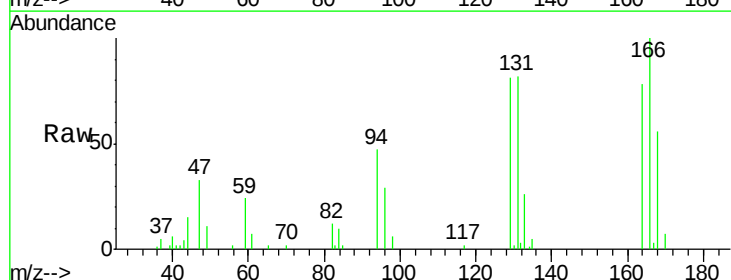
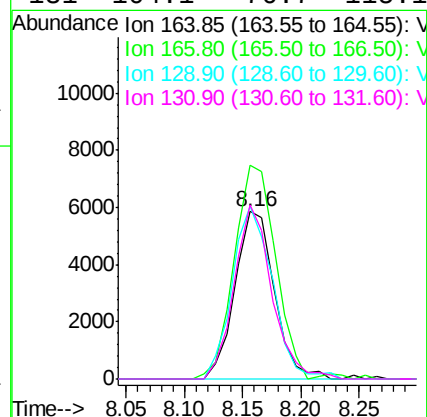
RT: 8.16 min Scan# 763

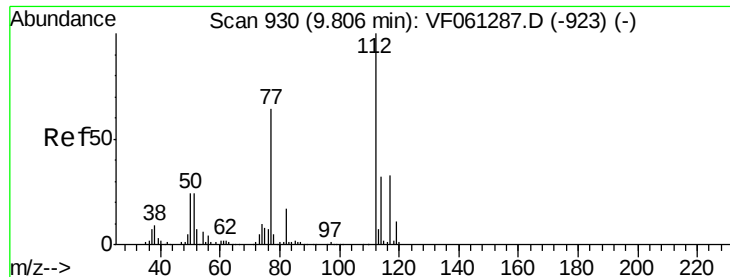
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:164	Resp:	13741
Ion Ratio	Lower	Upper
164 100		
166 127.7	100.1	150.1
129 103.6	80.1	120.1
131 104.1	76.7	115.1





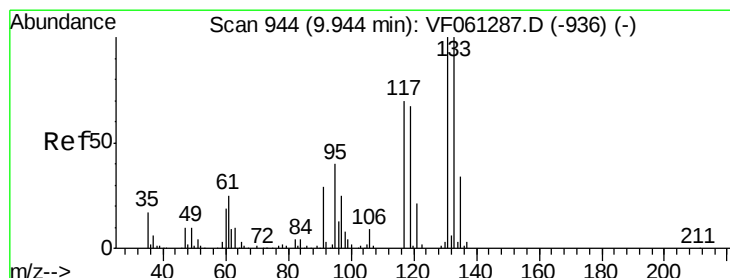
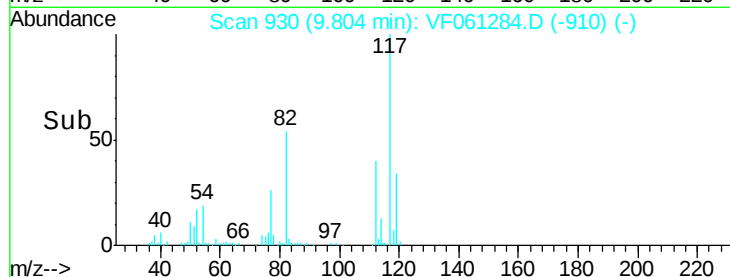
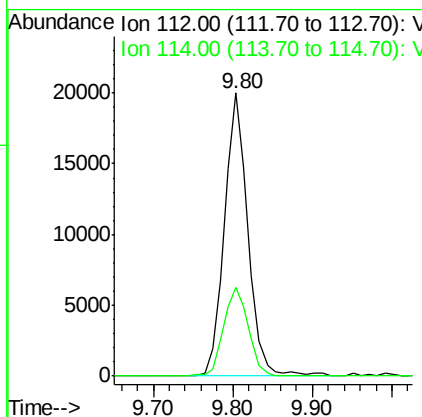
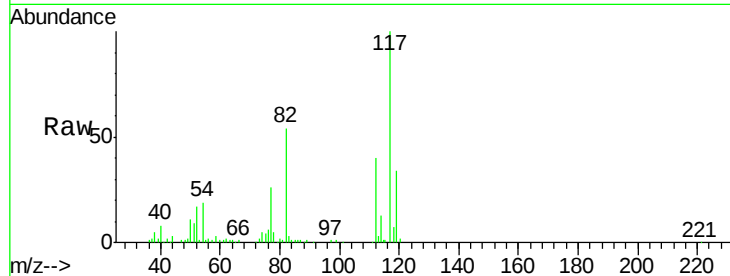
#65
Chlorobenzene
Concen: 5.578 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 41563
Ion Ratio Lower Upper
112 100
114 31.3 25.8 38.8

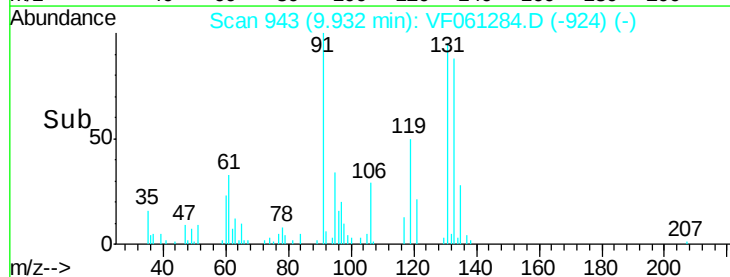
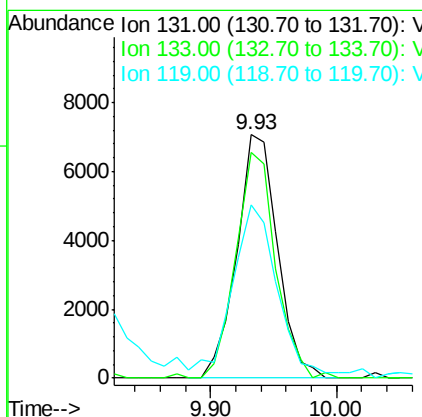
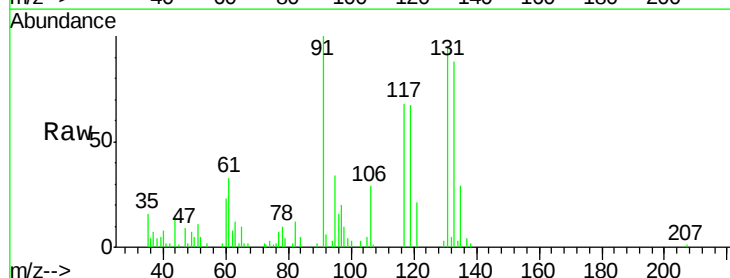
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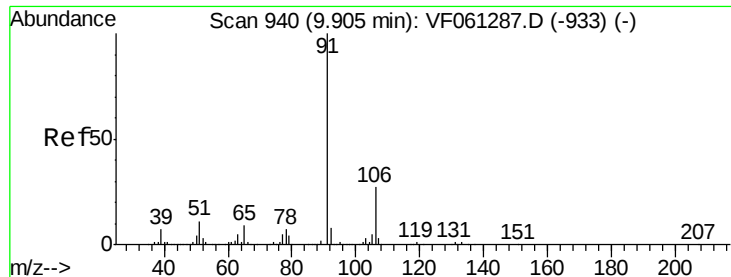
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#66
1,1,1,2-Tetrachloroethane
Concen: 5.161 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion:131 Resp: 15792
Ion Ratio Lower Upper
131 100
133 92.7 49.9 149.6
119 70.9 33.9 101.6





#67

Ethyl Benzene

Concen: 5.456 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 74736

Ion Ratio Lower Upper

91 100

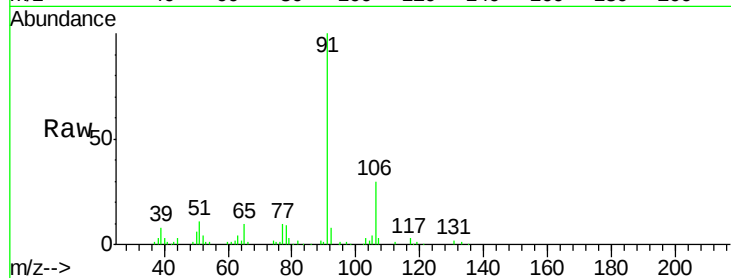
106 30.3 21.4 32.2

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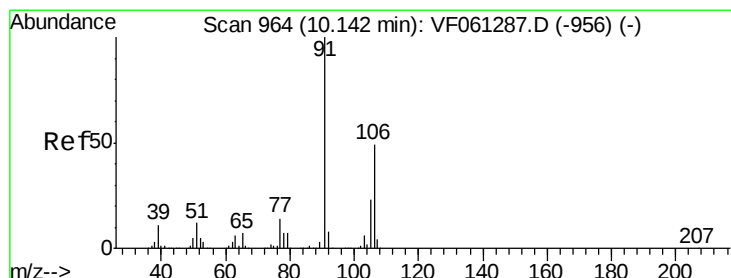
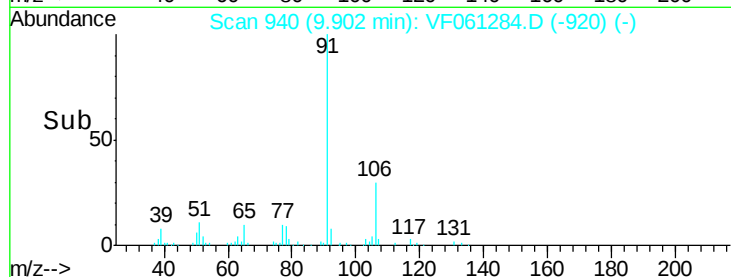
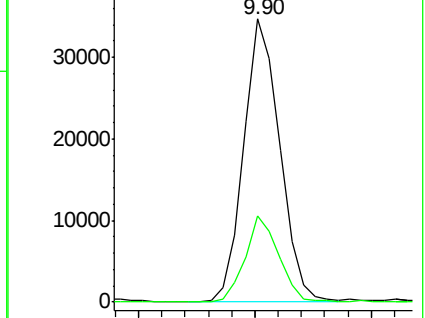
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 11.401 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061284.D

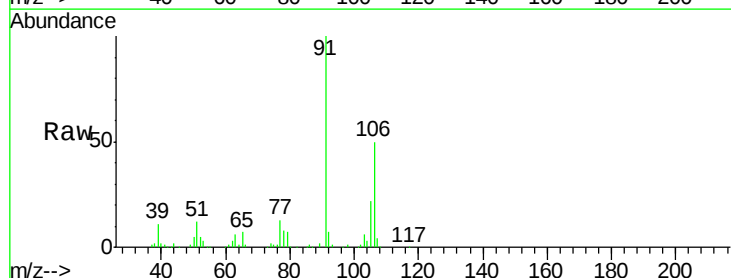
Acq: 8 Jan 2019 14:05

Tgt Ion: 106 Resp: 56993

Ion Ratio Lower Upper

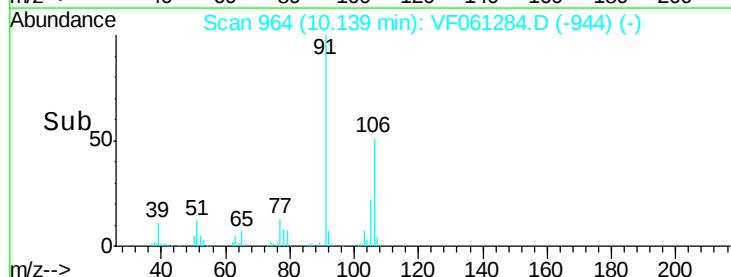
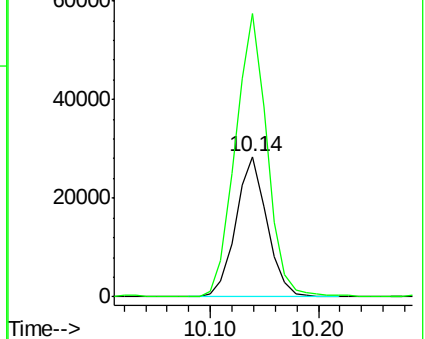
106 100

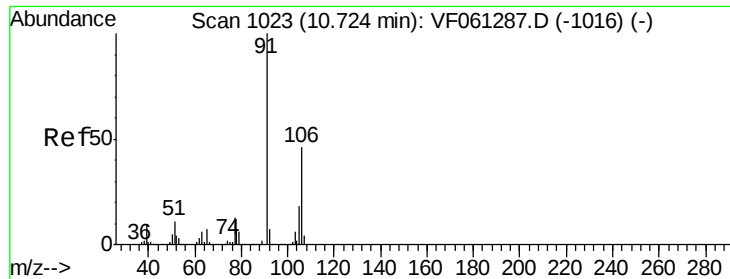
91 201.2 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





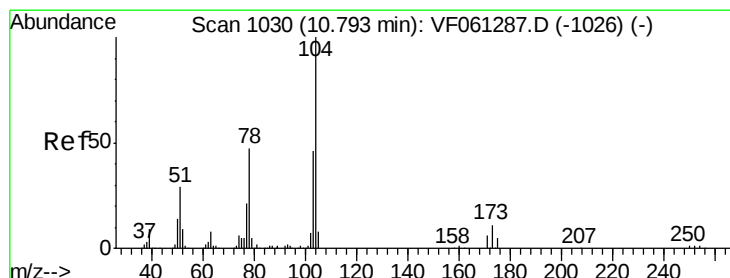
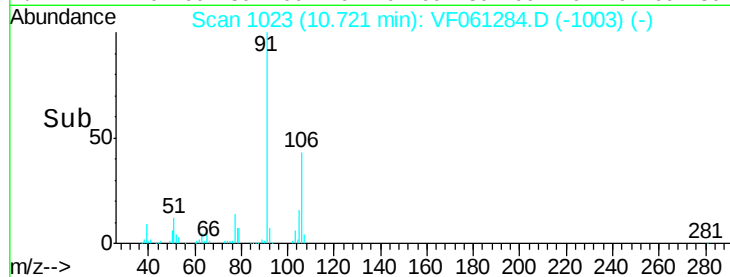
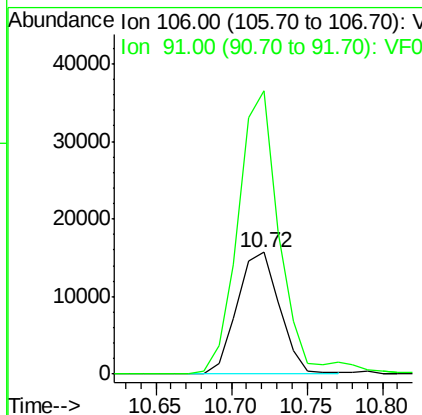
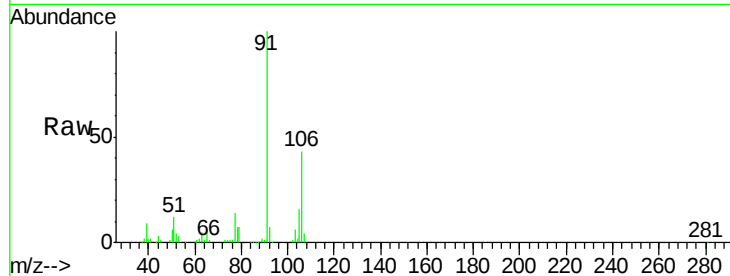
#69
o-Xylene
Concen: 5.670 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 30663
Ion Ratio Lower Upper
106 100
91 233.0 108.1 324.4

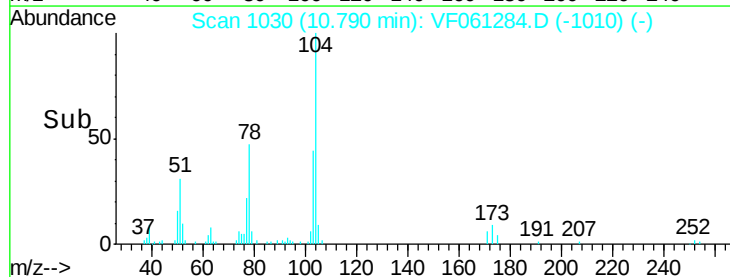
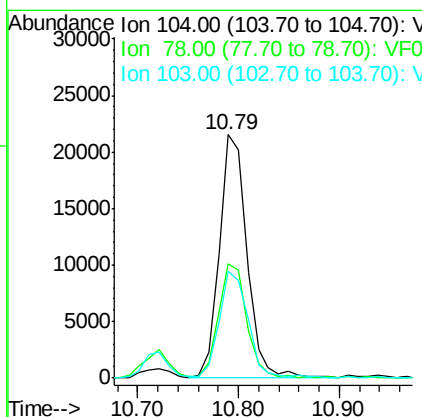
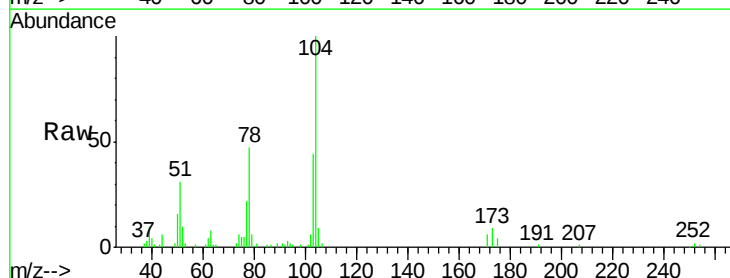
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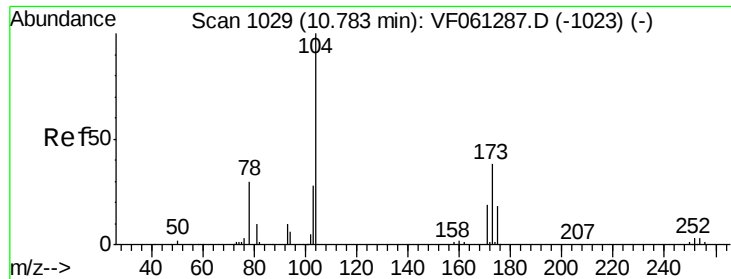
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#70
Styrene
Concen: 5.561 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion:104 Resp: 41400
Ion Ratio Lower Upper
104 100
78 46.9 38.0 57.0
103 43.7 36.7 55.1





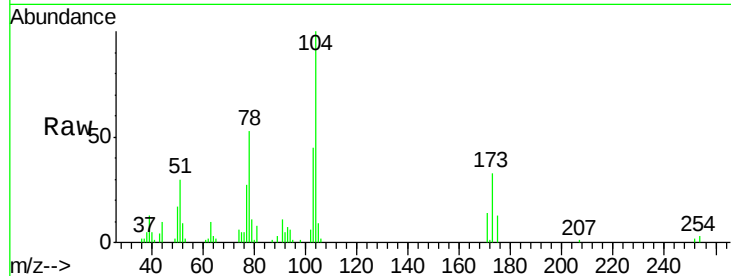
#71
Bromoform
Concen: 4.502 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

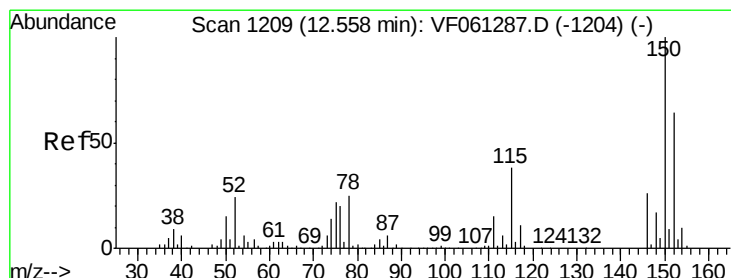
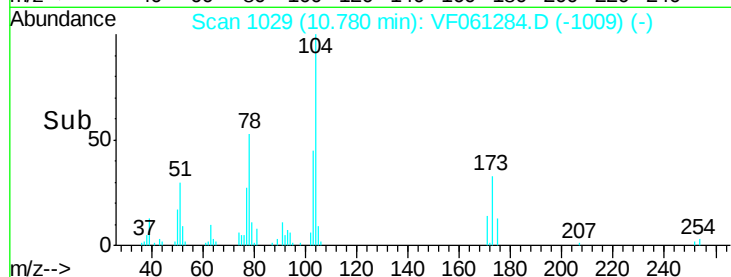
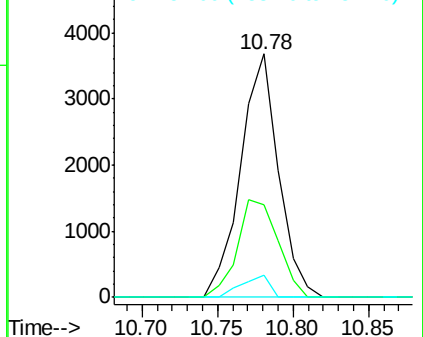
Tot Ion	Ratio	Lower	Upper
173	100		
175	38.1	24.1	72.2
254	9.0	0.0	0.0

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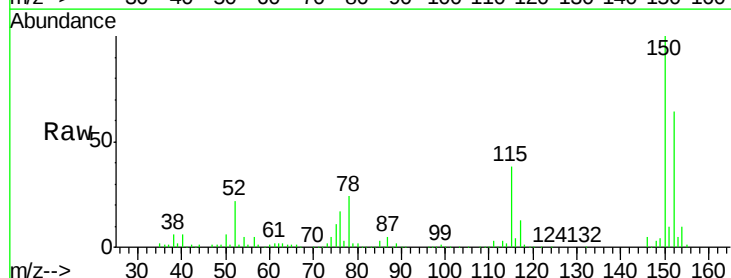


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

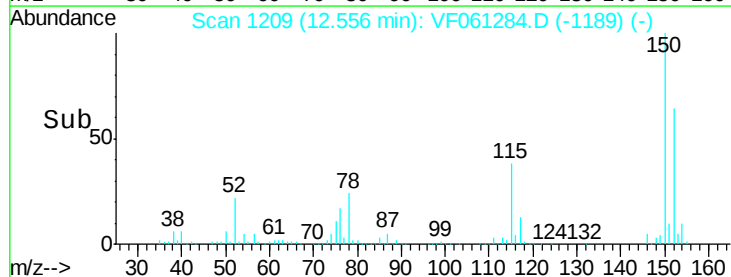
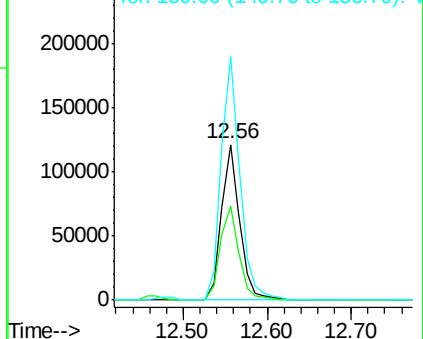


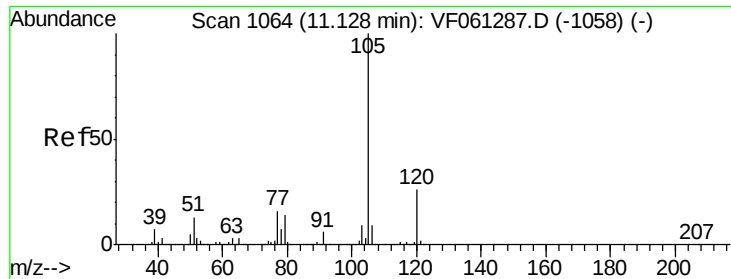
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	29.6	88.9
150	156.4	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





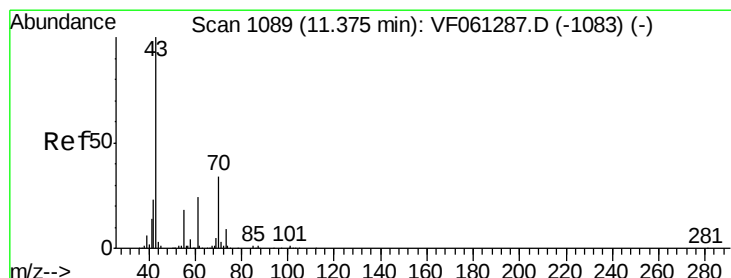
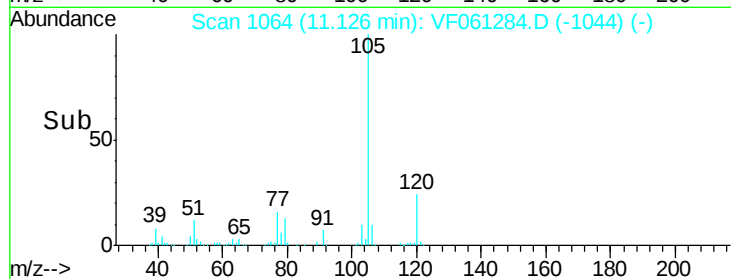
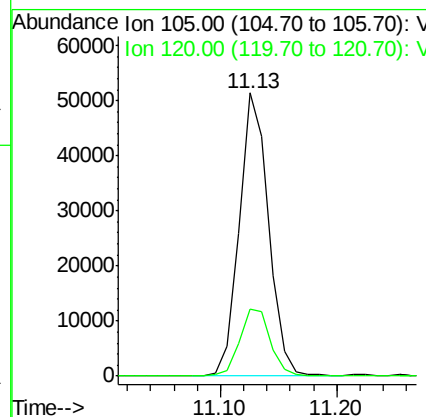
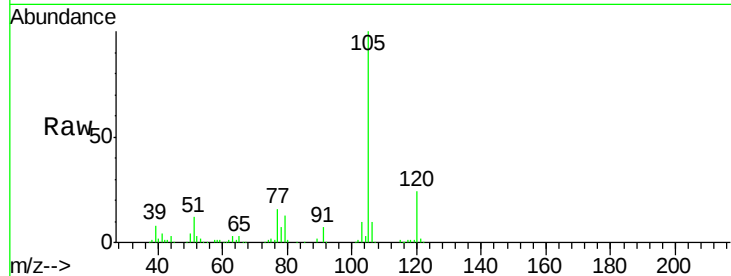
#73
Isopropylbenzene
Concen: 5.733 ug/l
RT: 11.13 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	23.7	12.9	38.7

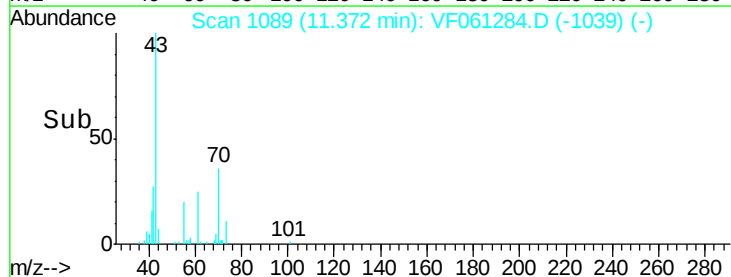
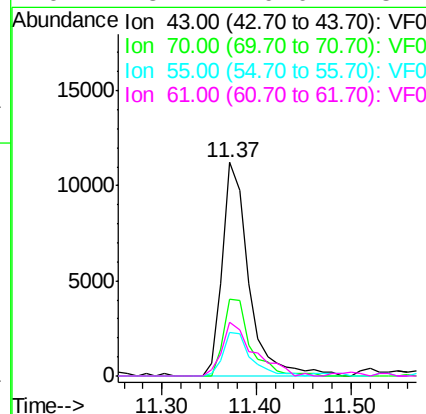
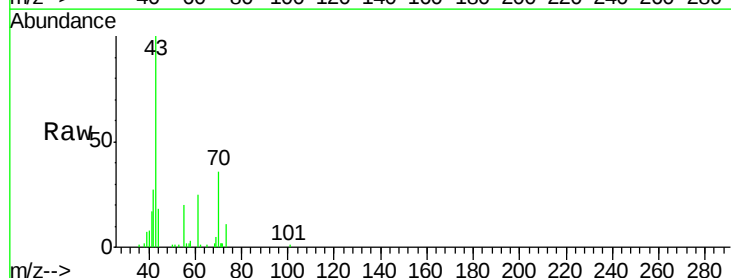
Manual Integrations
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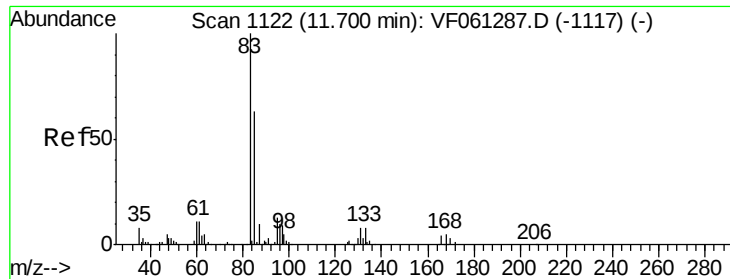
MMDadoda
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#74
N-ethyl acetate
Concen: 5.532 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
43	100		
70	36.0	27.4	41.0
55	20.3	14.7	22.1
61	25.1	19.0	28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 5.173 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

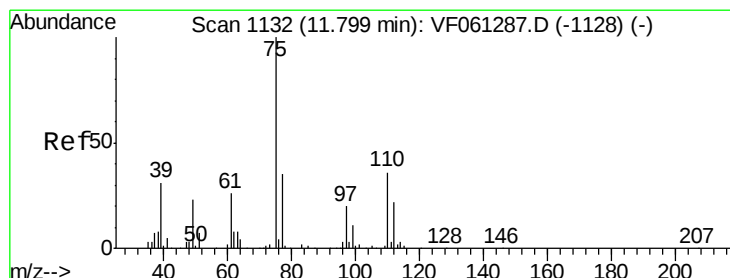
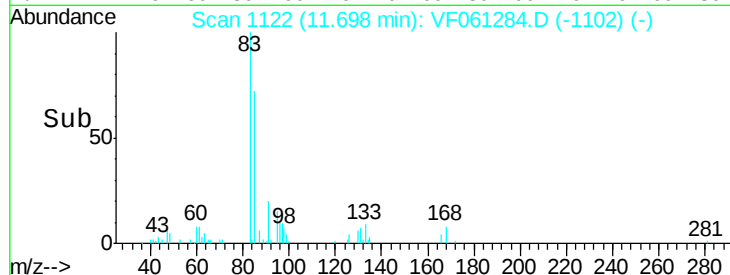
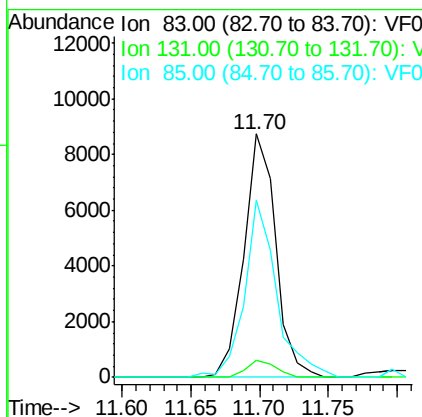
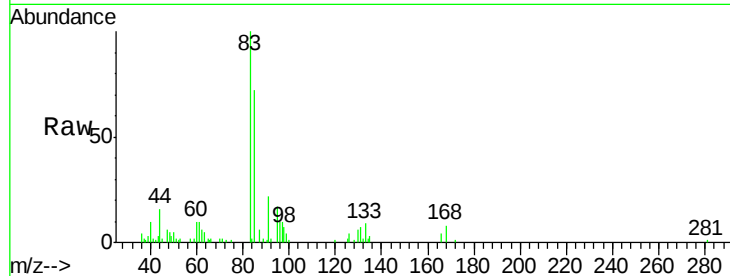
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	14129
Ion Ratio	Lower	Upper	
83	100		
131	6.9	3.9	11.7
85	72.5	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
1/9/2019 11:44:39 AM



#76

1,2,3-Trichloropropane

Concen: 5.473 ug/l

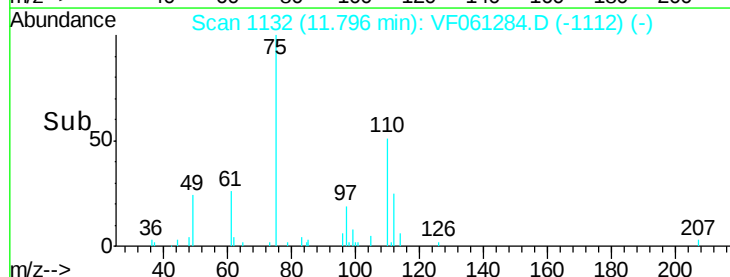
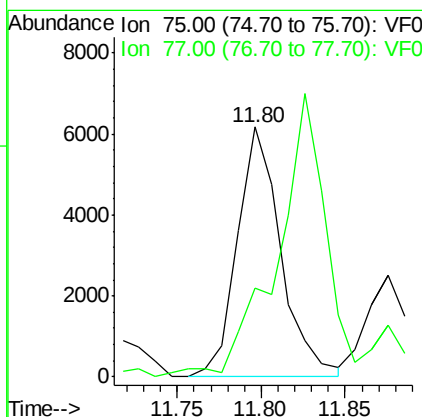
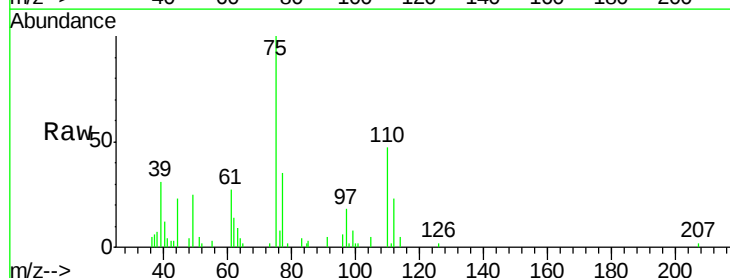
RT: 11.80 min Scan# 1132

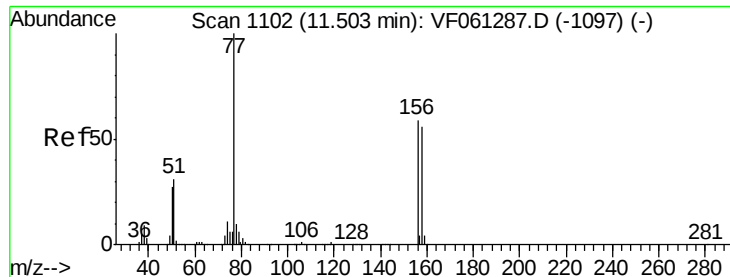
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	75	Resp:	11098
Ion Ratio	Lower	Upper	
75	100		
77	35.3	17.5	52.5





#77

Bromobenzene

Concen: 5.564 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

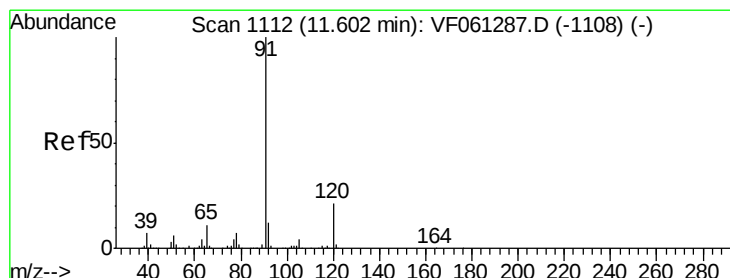
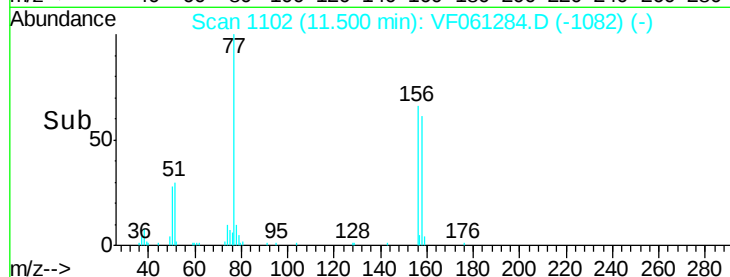
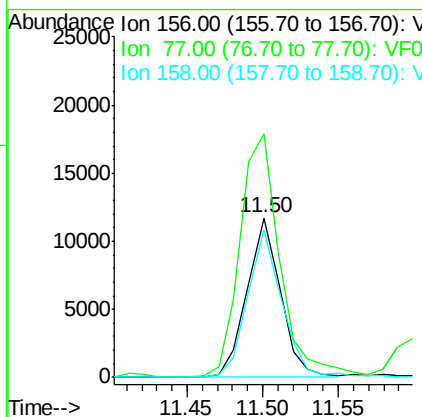
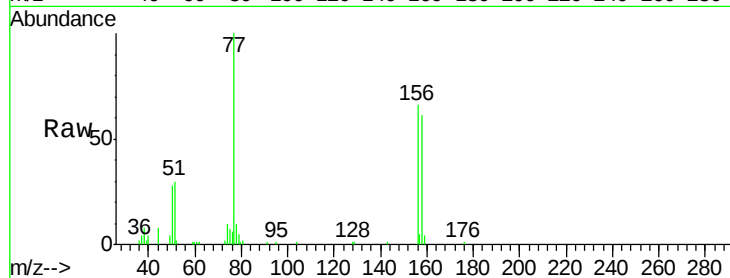
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	18267
Ion Ratio	Lower	Upper	
156	100		
77	152.6	84.3	252.9
158	92.6	47.1	141.3

Manual Integrations
APPROVED

MMDadoda
1/9/2019 11:44:39 AM



#78

n-propylbenzene

Concen: 6.153 ug/l

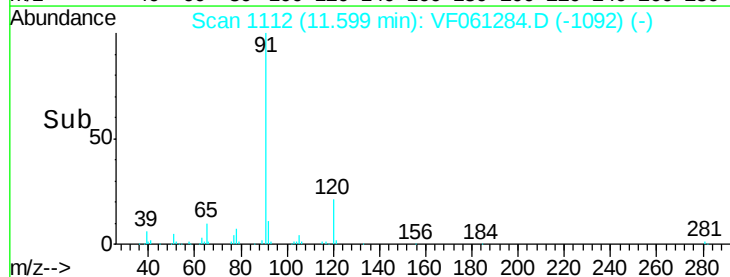
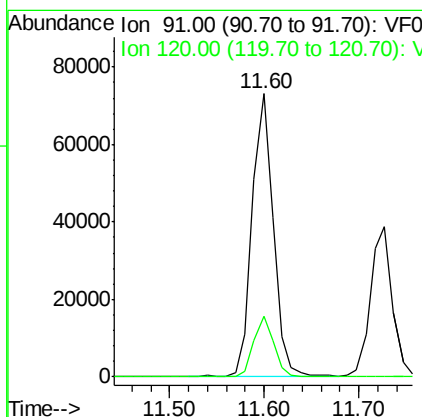
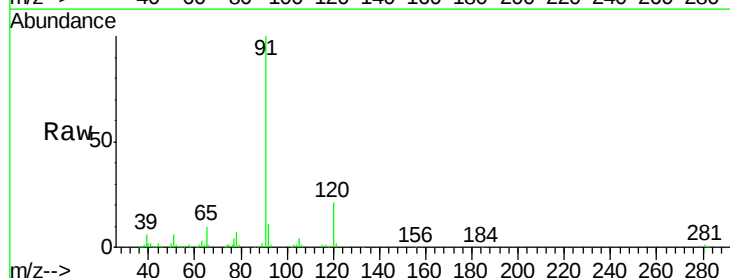
RT: 11.60 min Scan# 1112

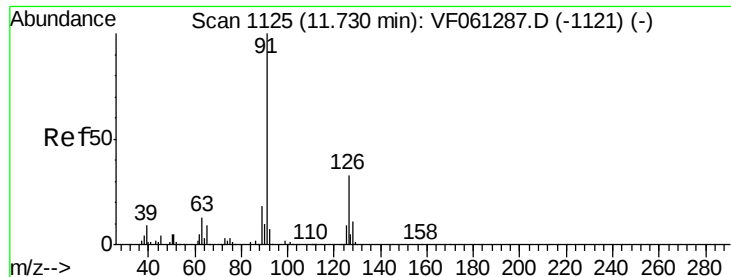
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	91	Resp:	114687
Ion Ratio	Lower	Upper	
91	100		
120	21.3	10.7	32.1





#79

2-Chlorotoluene

Concen: 5.823 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 62684

Ion Ratio Lower Upper

91 100

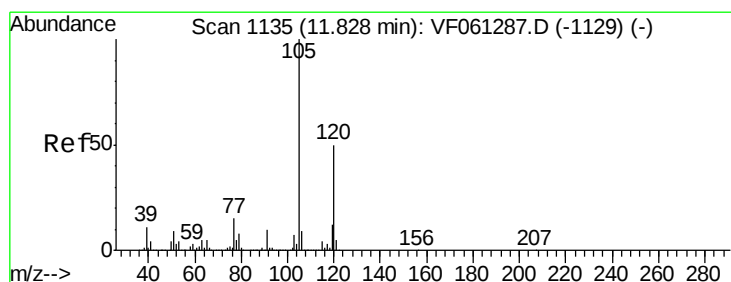
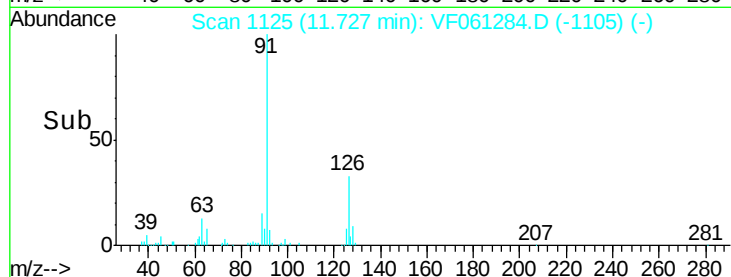
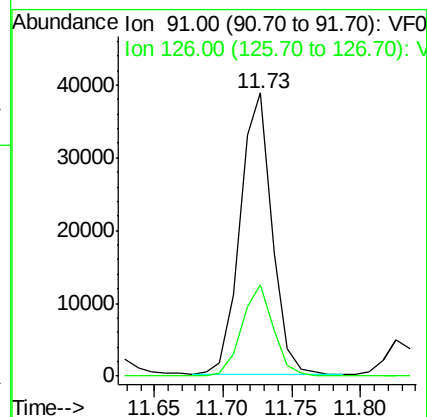
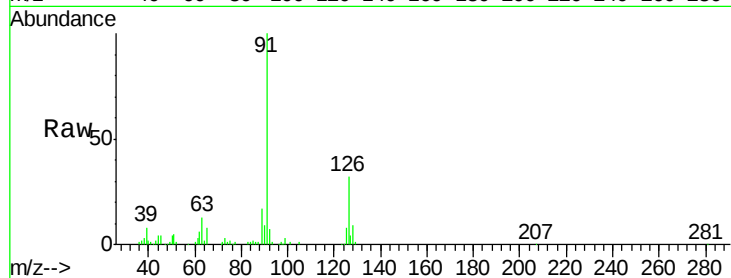
126 32.5 16.6 49.8

Manual Integrations

APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 5.861 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061284.D

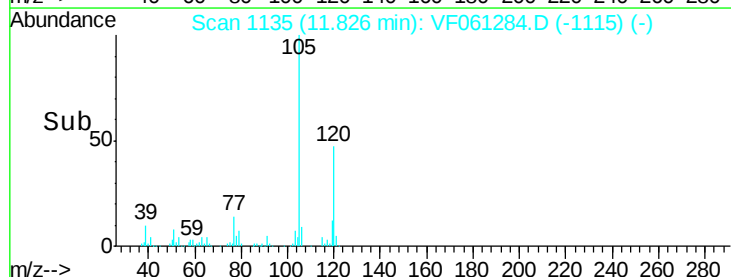
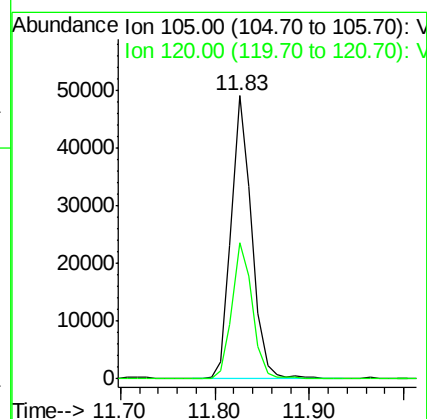
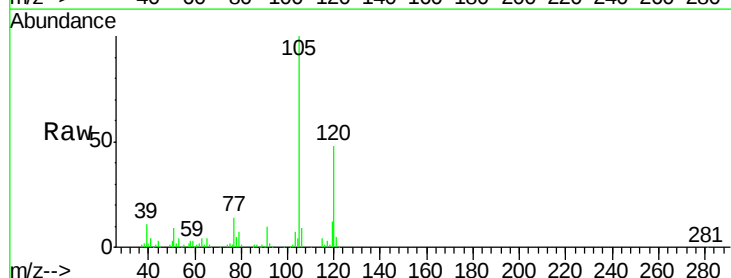
Acq: 8 Jan 2019 14:05

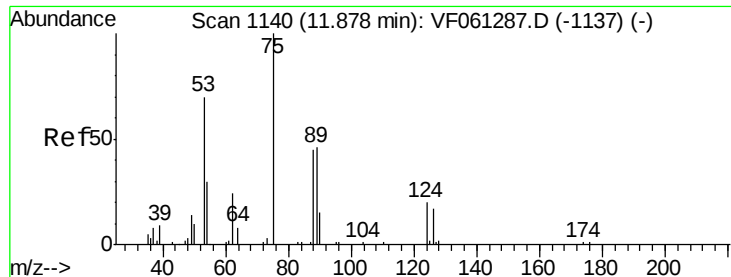
Tgt Ion:105 Resp: 73997

Ion Ratio Lower Upper

105 100

120 48.1 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 4.936 ug/l m

RT: 11.88 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

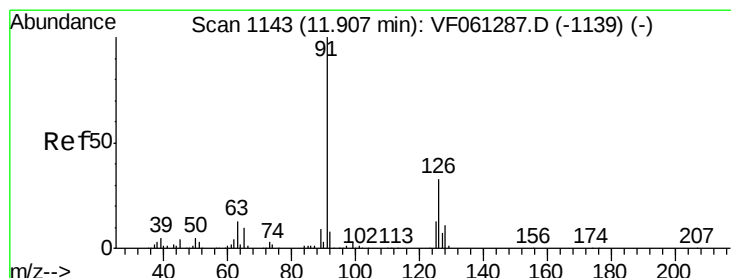
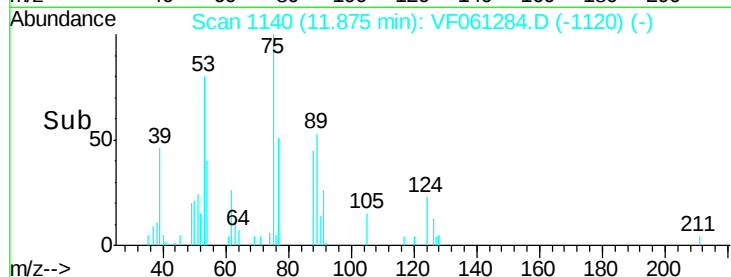
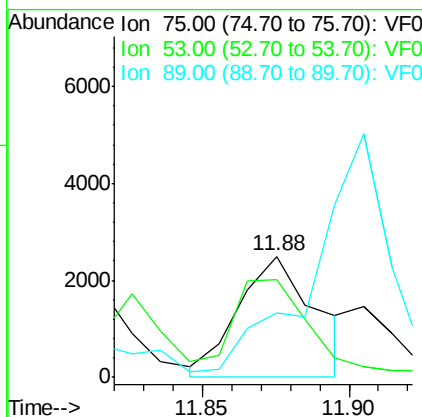
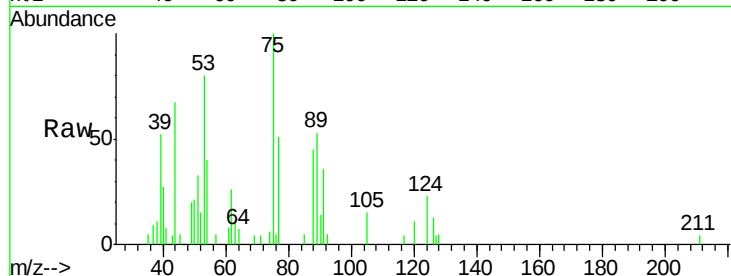
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	4587
Ion	Ratio	Lower	Upper
75	100		
53	80.3	62.2	93.2
89	52.9	40.2	60.4

Manual Integrations
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1/9/2019 11:44:39 AM



#82

4-Chlorotoluene

Concen: 5.919 ug/l

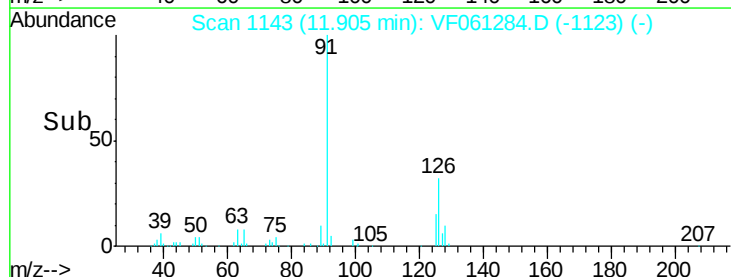
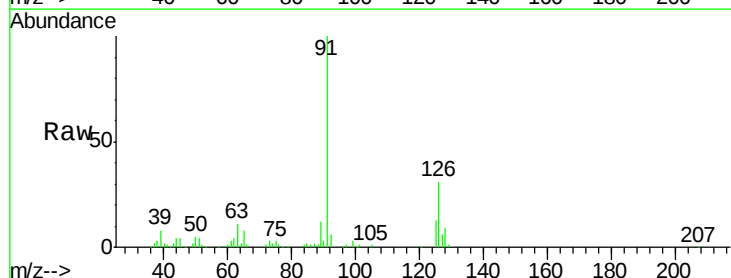
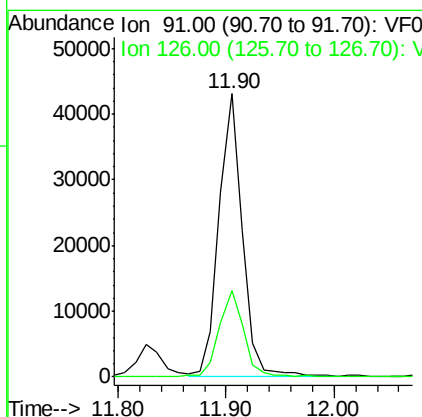
RT: 11.90 min Scan# 1143

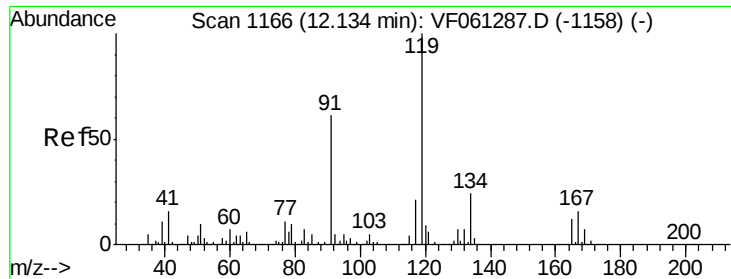
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	91	Resp:	64596
Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.4	49.4





#83

tert-Butylbenzene

Concen: 5.703 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

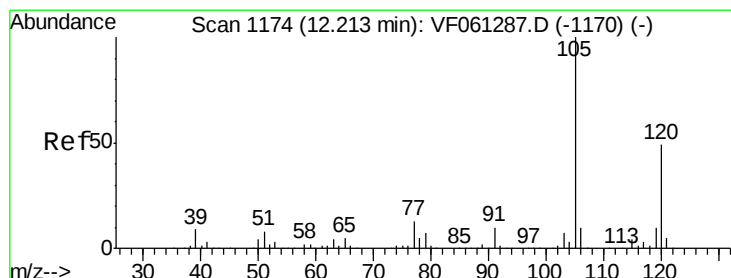
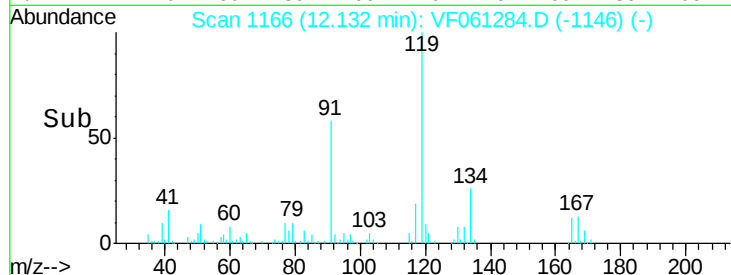
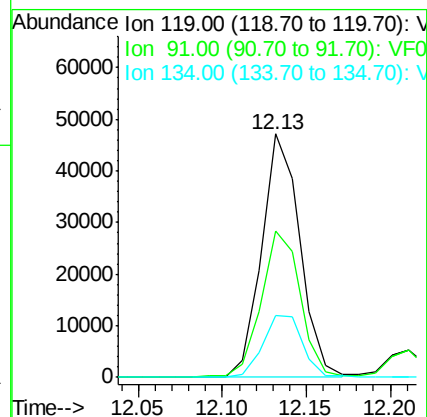
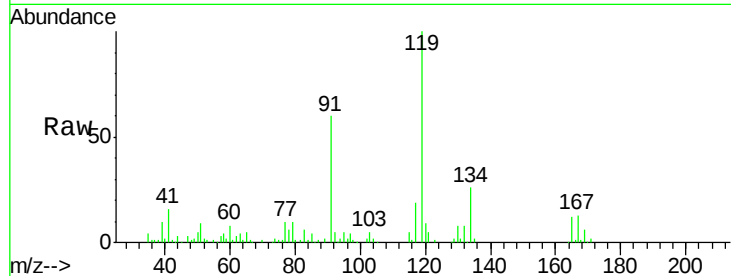
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	74233
Ion Ratio	Lower	Upper	
119	100		
91	60.2	30.8	92.4
134	25.5	11.9	35.9

Manual Integrations
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1/9/2019 11:44:39 AM



#84

1,2,4-Trimethylbenzene

Concen: 5.634 ug/l

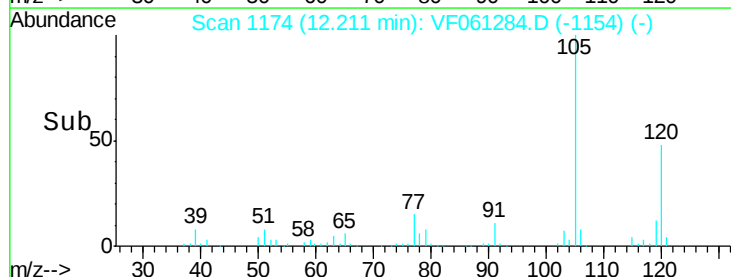
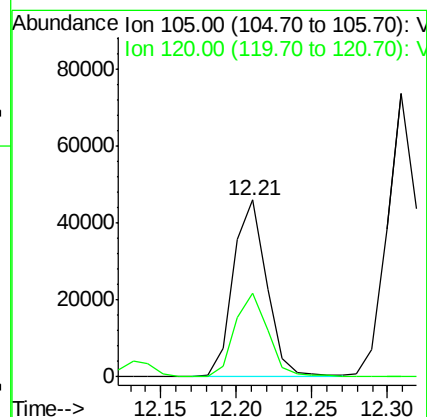
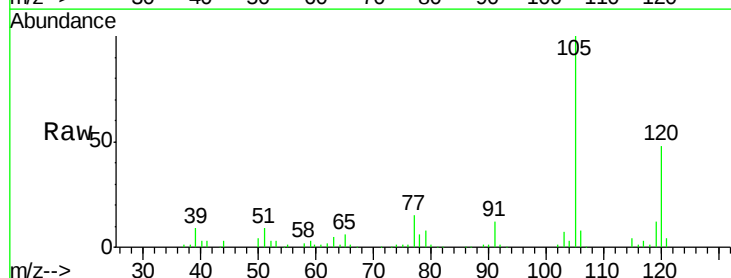
RT: 12.21 min Scan# 1174

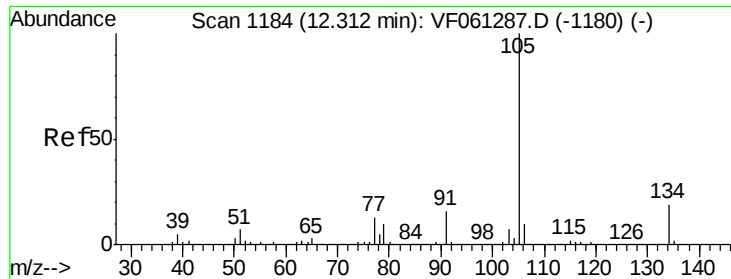
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	105	Resp:	70805
Ion Ratio	Lower	Upper	
105	100		
120	47.6	24.7	74.1





#85

sec-Butylbenzene

Concen: 6.016 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 106214

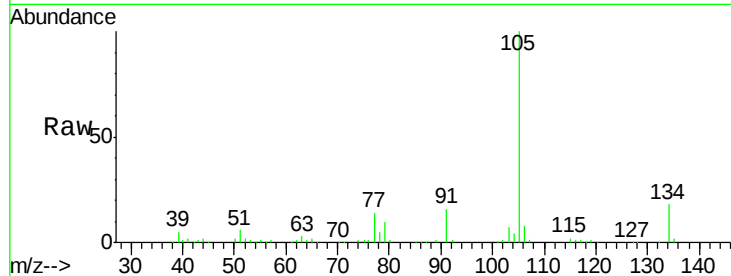
Ion Ratio Lower Upper

105 100

134 18.3 9.7 28.9

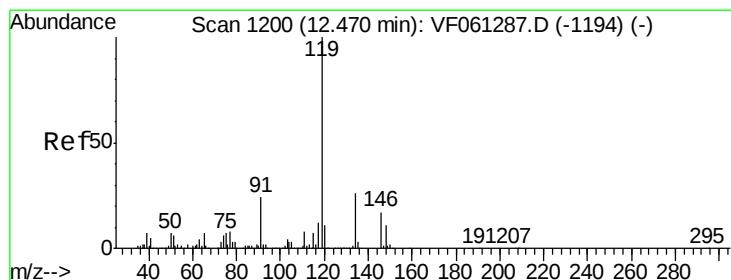
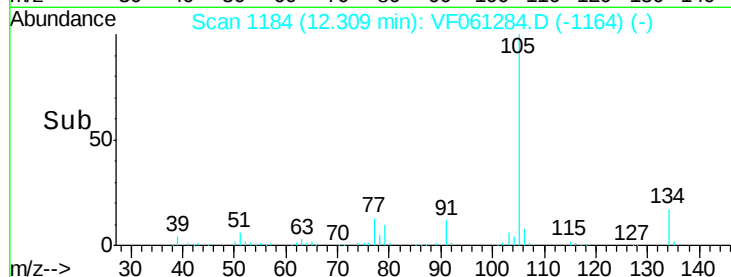
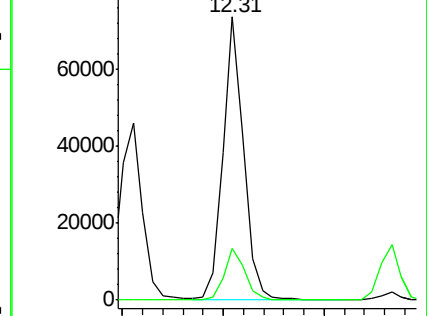
Manual Integrations
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1/9/2019 11:44:39 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.874 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

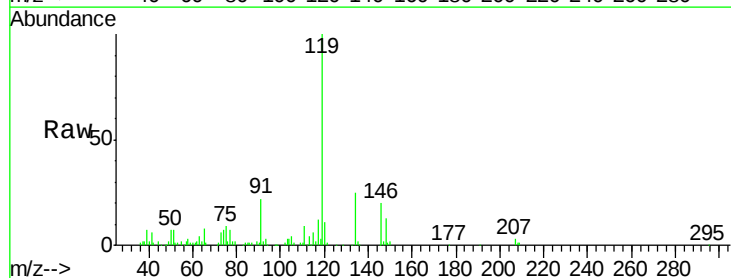
Tgt Ion:119 Resp: 85451

Ion Ratio Lower Upper

119 100

134 24.5 13.0 39.0

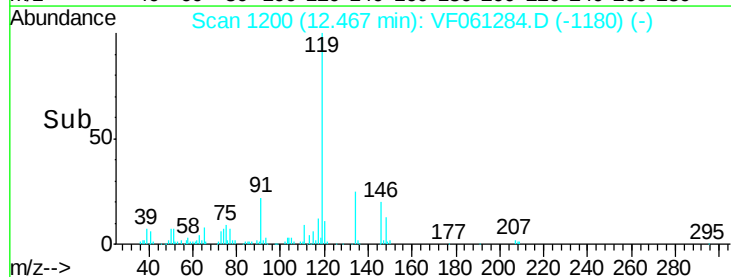
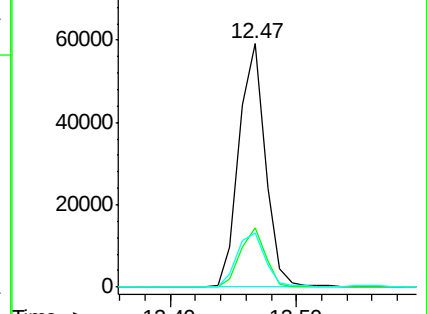
91 22.1 12.2 36.4

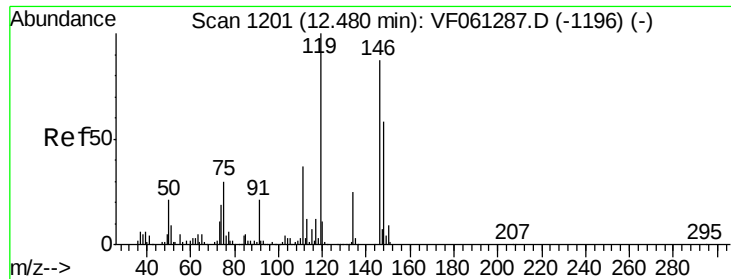


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 6.021 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

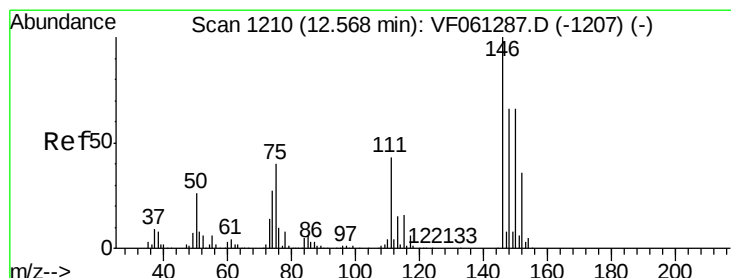
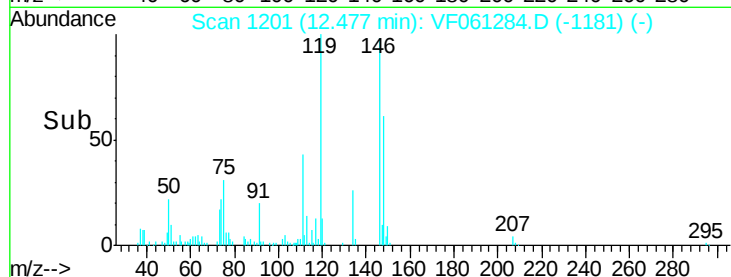
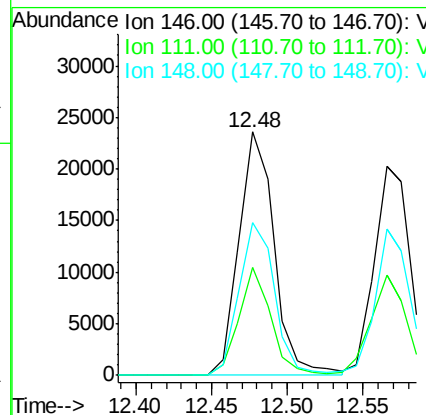
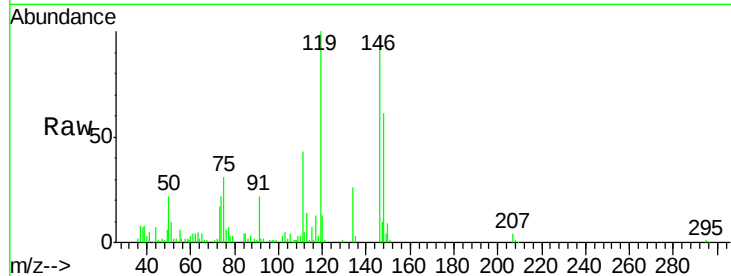
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.1	63.3
148	62.9	33.1	99.5

Manual Integrations
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1/9/2019 11:44:39 AM



#88

1,4-Dichlorobenzene

Concen: 5.541 ug/l

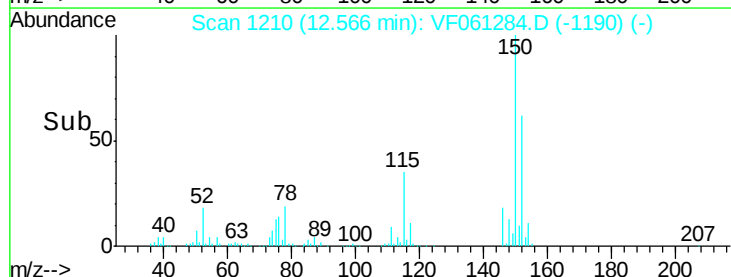
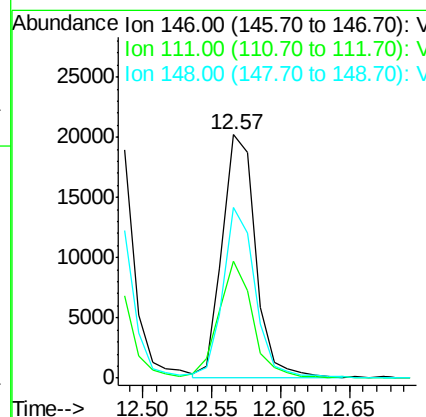
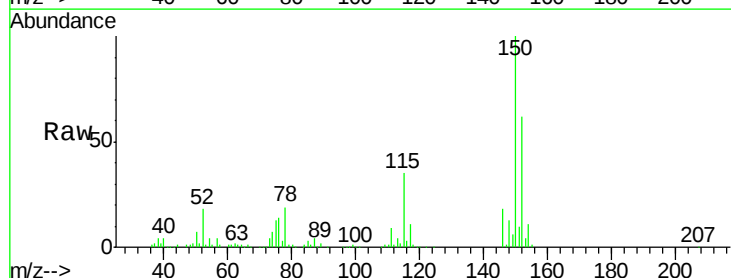
RT: 12.57 min Scan# 1210

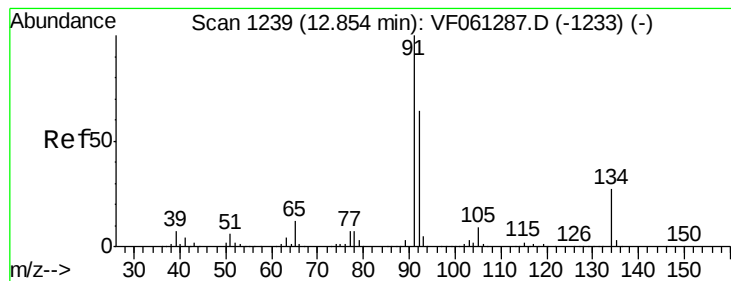
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	21.4	64.2
148	70.1	33.0	98.9





#89

n-Butylbenzene

Concen: 5.817 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Instrument :

MSVOA_F

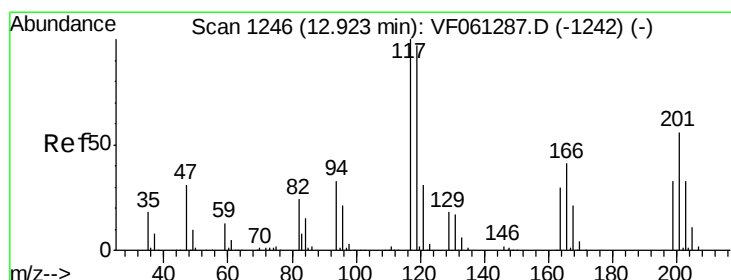
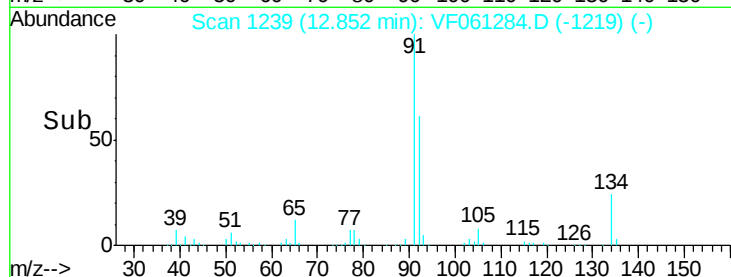
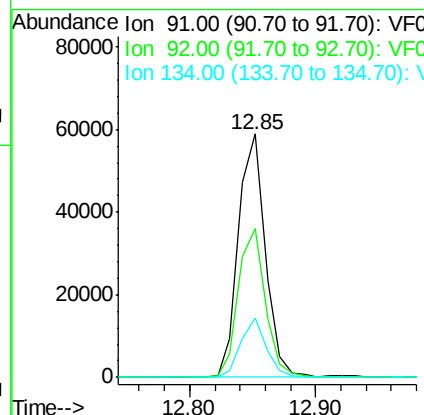
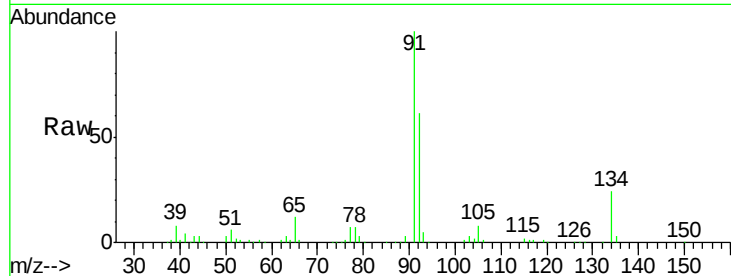
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	86951
Ion Ratio	Lower	Upper	
91	100		
92	61.2	32.1	96.3
134	24.1	13.4	40.1

Manual Integrations
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#90

Hexachloroethane

Concen: 5.084 ug/l

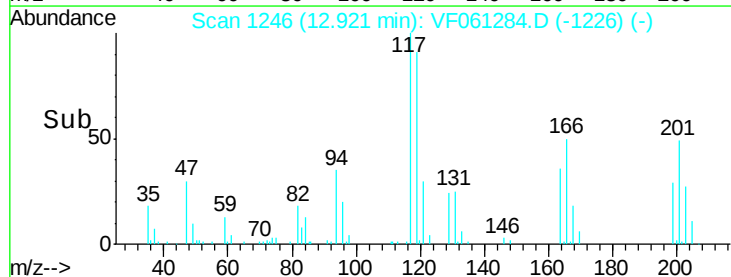
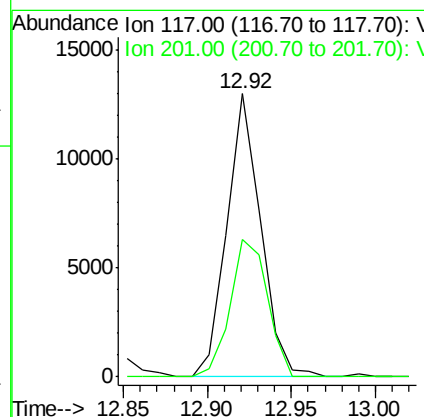
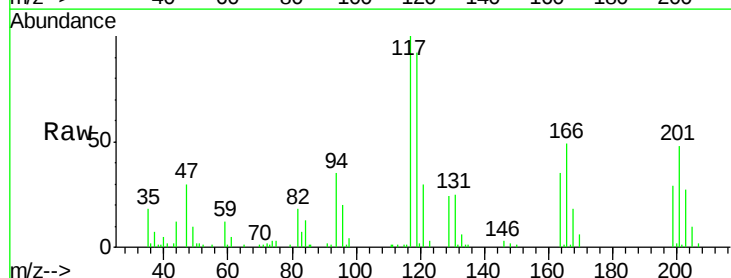
RT: 12.92 min Scan# 1246

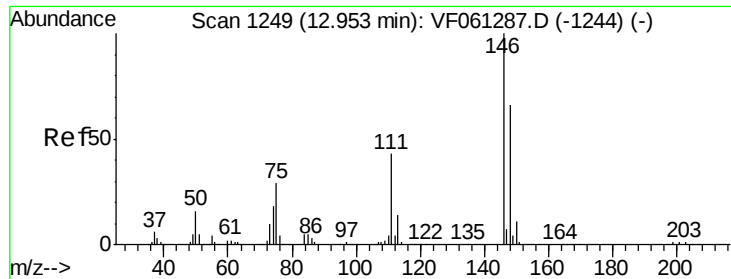
Delta R.T. -0.00 min

Lab File: VF061284.D

Acq: 8 Jan 2019 14:05

Tgt Ion:	117	Resp:	18247
Ion Ratio	Lower	Upper	
117	100		
201	48.4	27.9	83.7





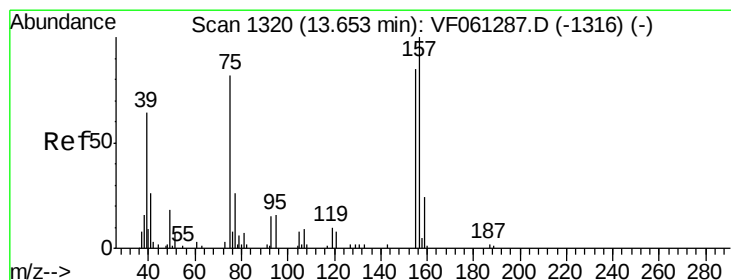
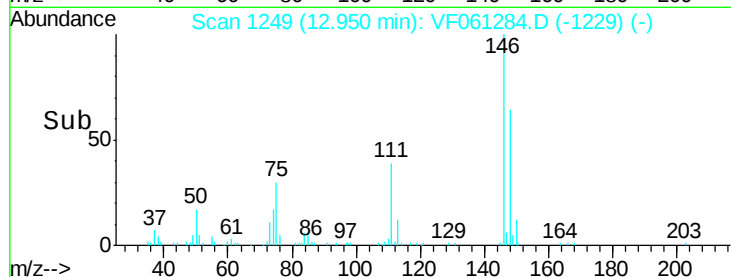
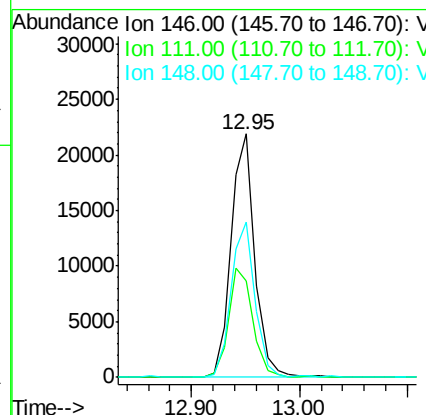
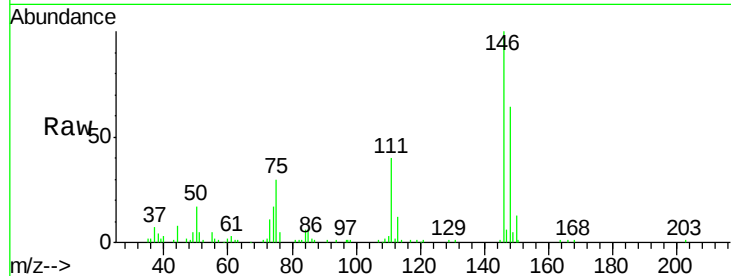
#91
 1,2-Dichlorobenzene
 Concen: 5.436 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	21.4	64.3
148	63.6	33.1	99.2

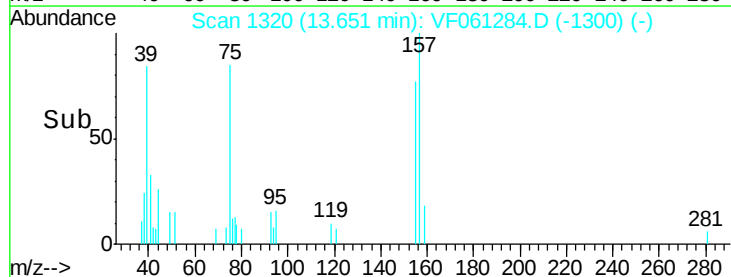
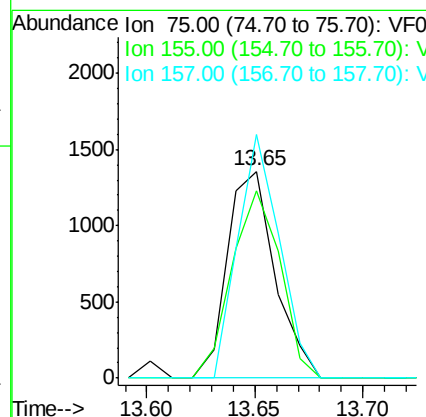
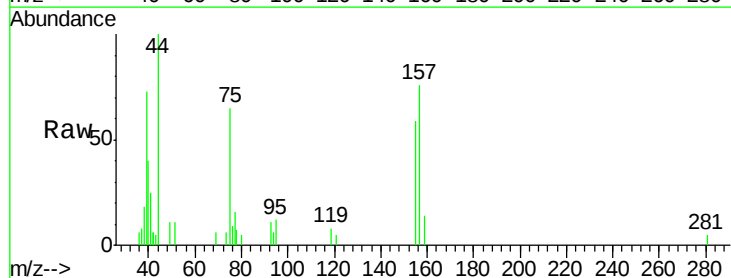
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.256 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.5	51.3	154.0
157	117.6	60.7	182.0





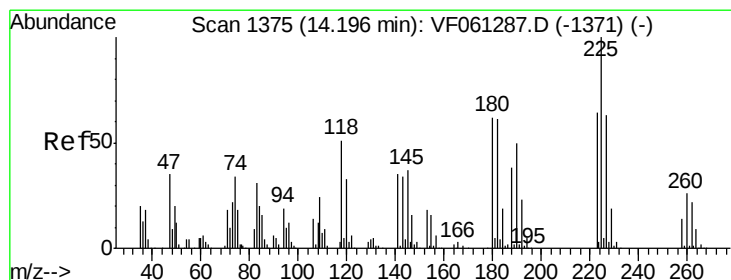
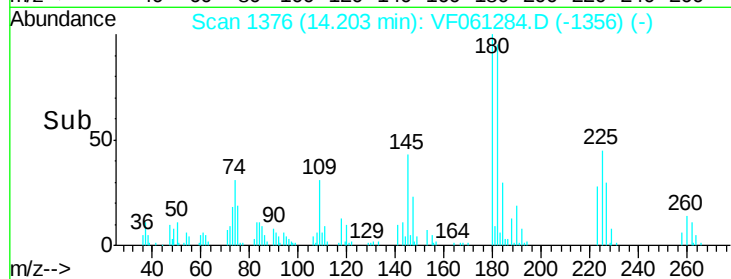
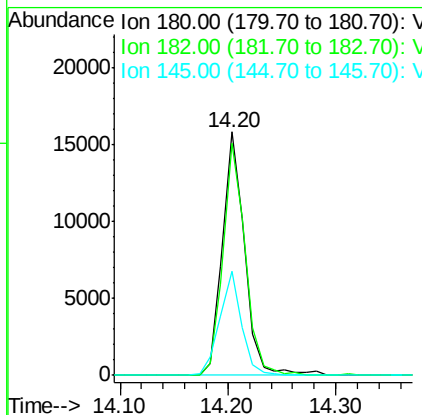
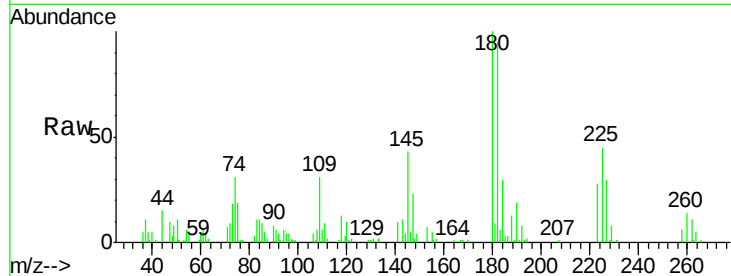
#93
 1,2,4-Trichlorobenzene
 Concen: 5.287 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.0	141.2
145	42.7	19.7	59.1

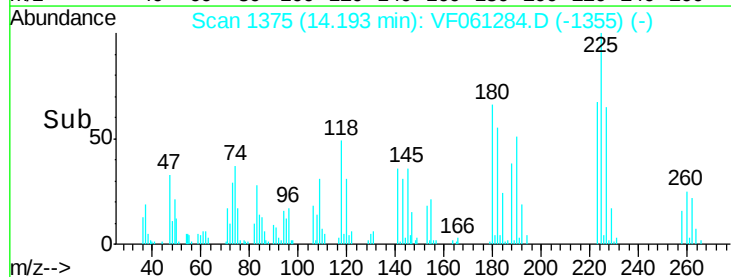
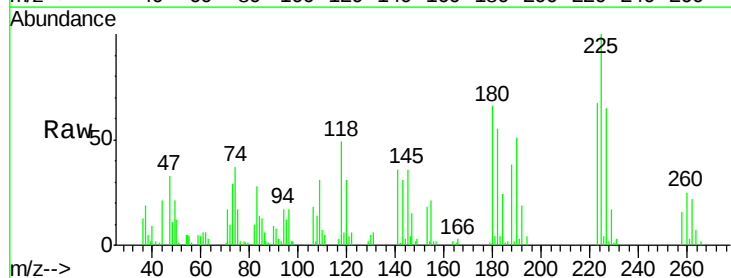
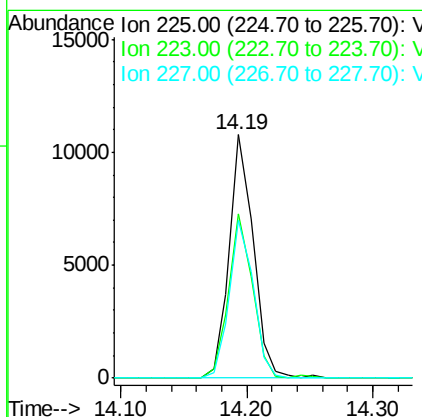
Manual Integrations
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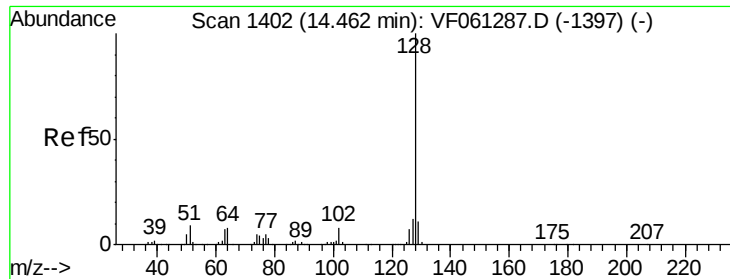
MMDadoda
 1/9/2019 11:44:39 AM



#94
 Hexachlorobutadiene
 Concen: 5.222 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061284.D
 Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	67.3	31.8	95.4
227	64.8	31.3	93.9





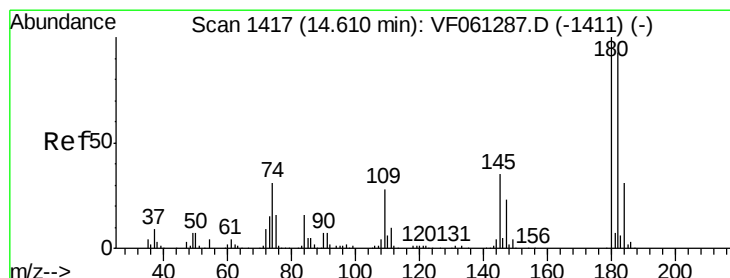
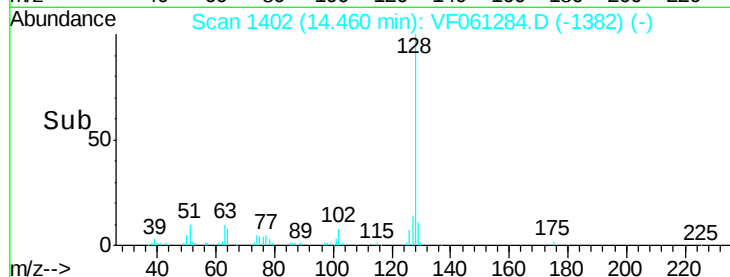
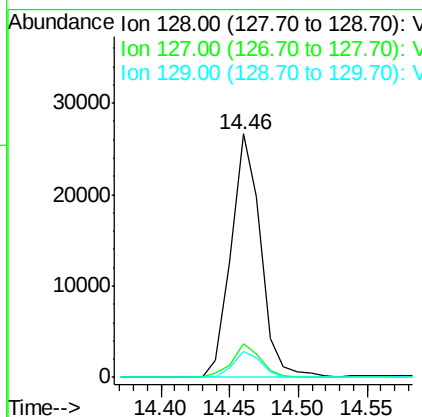
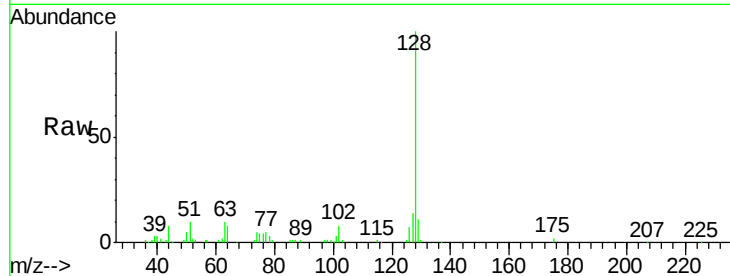
#95
Naphthalene
Concen: 4.999 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	9.4	14.0
129	11.0	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 5.613 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061284.D
Acq: 8 Jan 2019 14:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.5	139.3
145	30.0	17.5	52.6

