

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061315.D
 Acq On : 9 Jan 2019 23:22
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 3:31:52 PM

Quant Time: Jan 10 07:04:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	188484	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	324498	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	309868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	149261	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	116353	55.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.92%	
35) Dibromofluoromethane	4.13	113	129638	52.21	ug/l	0.02
Spiked Amount 50.000			Recovery	=	104.42%	
50) Toluene-d8	7.57	98	386124	52.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	11.42	95	167199	52.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.22%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	174324	50.140	ug/l	95
3) Chloromethane	1.10	50	140986	45.506	ug/l	93
4) Vinyl Chloride	1.15	62	123520	44.638	ug/l	94
5) Bromomethane	1.31	94	87941	40.622	ug/l	86
6) Chloroethane	1.39	64	56400	41.739	ug/l #	88
7) Trichlorofluoromethane	1.48	101	223571	47.660	ug/l	96
8) Diethyl Ether	1.64	74	37281	54.122	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.84	101	108110	43.647	ug/l	95
10) Methyl Iodide	1.90	142	180166m	46.428	ug/l	
11) Tert butyl alcohol	2.59	59	25797	307.116	ug/l #	85
12) 1,1-Dichloroethene	1.80	96	90782	45.834	ug/l	96
13) Acrolein	2.01	56	18277	195.472	ug/l	93
14) Allyl chloride	2.11	41	156952	43.353	ug/l	99
15) Acrylonitrile	2.96	53	70680	237.365	ug/l	99
16) Acetone	2.25	43	101119	207.197	ug/l	96
17) Carbon Disulfide	1.82	76	277157	42.365	ug/l	98
18) Methyl Acetate	2.36	43	51920m	54.073	ug/l	
19) Methyl tert-butyl Ether	2.45	73	195979	51.923	ug/l	98
20) Methylene Chloride	2.19	84	90346m	43.758	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	92498	44.071	ug/l	94
22) Diisopropyl ether	2.81	45	329181	46.998	ug/l	98
23) Vinyl Acetate	3.21	43	676762	330.396	ug/l	100
24) 1,1-Dichloroethane	2.88	63	195231	48.186	ug/l	98
25) 2-Butanone	4.35	43	217675	277.123	ug/l	95
26) 2,2-Dichloropropane	3.61	77	105677	39.032	ug/l	98
27) cis-1,2-Dichloroethene	3.49	96	157338	53.692	ug/l	95
28) Bromochloromethane	3.74	49	95524	53.474	ug/l	90
29) Tetrahydrofuran	4.09	42	95651	291.249	ug/l	97
30) Chloroform	3.88	83	271493	52.786	ug/l	96
31) Cyclohexane	3.72	56	207093	48.722	ug/l	95
32) 1,1,1-Trichloroethane	4.11	97	198171	47.702	ug/l	95
36) 1,1-Dichloropropene	4.30	75	206037	54.373	ug/l	97
37) Ethyl Acetate	4.12	43	86961	63.018	ug/l #	70
38) Carbon Tetrachloride	4.01	117	164534	45.845	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	223924	47.227	ug/l	94
40) Benzene	4.66	78	458363	51.811	ug/l	100
41) Methacrylonitrile	4.77	41	44692	57.996	ug/l #	91
42) 1,2-Dichloroethane	4.96	62	166012	60.273	ug/l	100
43) Isopropyl Acetate	6.98	43	111149	61.009	ug/l	99
44) Trichloroethene	5.53	130	131934	50.958	ug/l	96
45) 1,2-Dichloropropane	6.25	63	125466	55.769	ug/l	98
46) Dibromomethane	6.11	93	81598	59.073	ug/l #	89
47) Bromodichloromethane	6.40	83	202740	59.016	ug/l	99
48) Methyl methacrylate	6.74	41	74929	63.362	ug/l	94
49) 1,4-Dioxane	6.73	88	9972	1336.422	ug/l #	84
51) 4-Methyl-2-Pentanone	8.28	43	404393	294.077	ug/l	99
52) Toluene	7.64	92	294273	51.751	ug/l	98
53) t-1,3-Dichloropropene	8.30	75	151122	56.016	ug/l	97
54) cis-1,3-Dichloropropene	7.32	75	206169	57.636	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	93122	58.523	ug/l	99
56) Ethyl methacrylate	8.63	69	111382	62.631	ug/l	95
57) 1,3-Dichloropropane	8.87	76	172694	61.325	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.31	63	27220	359.169	ug/l #	81
59) 2-Hexanone	9.51	43	286578	294.165	ug/l	99
60) Dibromochloromethane	8.73	129	130141	61.421	ug/l	95
61) 1,2-Dibromoethane	9.01	107	98125	60.496	ug/l	99
64) Tetrachloroethene	8.17	164	123704	54.831	ug/l	97
65) Chlorobenzene	9.82	112	322366	51.518	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	134750	52.776	ug/l	99
67) Ethyl Benzene	9.91	91	593788	49.217	ug/l	95
68) m/p-Xylenes	10.15	106	412721	98.071	ug/l	99
69) o-Xylene	10.72	106	234104	49.798	ug/l	93
70) Styrene	10.80	104	317628	50.718	ug/l	99
71) Bromoform	10.78	173	63829	61.171	ug/l	97
73) Isopropylbenzene	11.14	105	682773	51.985	ug/l	98
74) N-amyl acetate	11.38	43	192177	64.367	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.71	83	127035	61.001	ug/l	94
76) 1,2,3-Trichloropropane	11.81	75	91438	59.866	ug/l	100
77) Bromobenzene	11.51	156	144072	55.138	ug/l	92
78) n-propylbenzene	11.61	91	805951	51.466	ug/l	99
79) 2-Chlorotoluene	11.73	91	454375	52.078	ug/l	96
80) 1,3,5-Trimethylbenzene	11.84	105	535507	51.240	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	34885m	52.265	ug/l	
82) 4-Chlorotoluene	11.91	91	453925	51.201	ug/l	96
83) tert-Butylbenzene	12.14	119	539799	51.843	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	534393	51.503	ug/l	97
85) sec-Butylbenzene	12.31	105	734245	49.525	ug/l	97
86) p-Isopropyltoluene	12.47	119	599661	49.728	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	258809	50.719	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	257534	52.497	ug/l	97
89) n-Butylbenzene	12.85	91	619611	50.008	ug/l	99
90) Hexachloroethane	12.93	117	151434	54.899	ug/l	92
91) 1,2-Dichlorobenzene	12.95	146	257205	52.808	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	22433	63.755	ug/l	82

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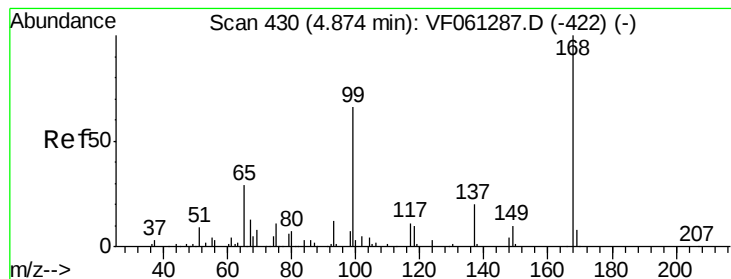
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	174176	51.967	µg/l	96
94) Hexachlorobutadiene	14.21	225	108237	50.163	µg/l	96
95) Naphthalene	14.47	128	368910	58.407	µg/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	161849	51.263	µg/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

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Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 188484

Ion Ratio Lower Upper

168 100

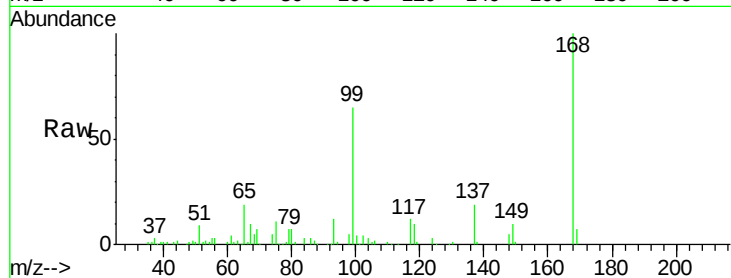
99 65.3 52.7 79.1

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

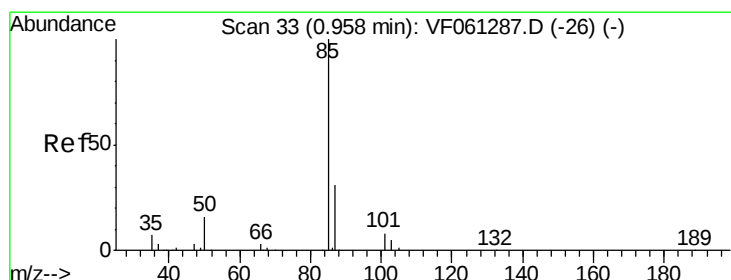
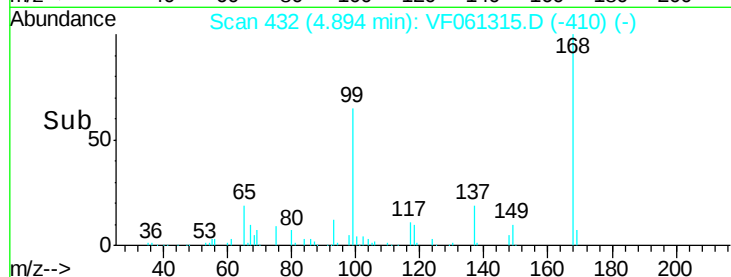
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 50.140 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061315.D

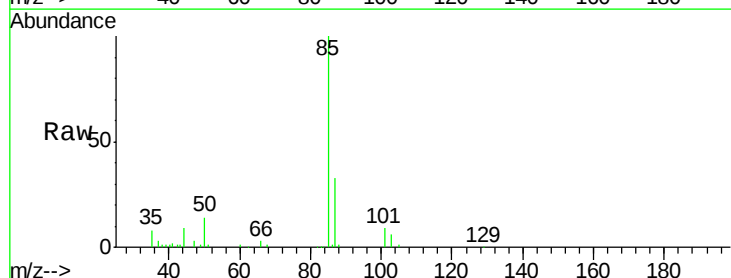
Acq: 9 Jan 2019 23:22

Tgt Ion: 85 Resp: 174324

Ion Ratio Lower Upper

85 100

87 33.4 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

60000

50000

40000

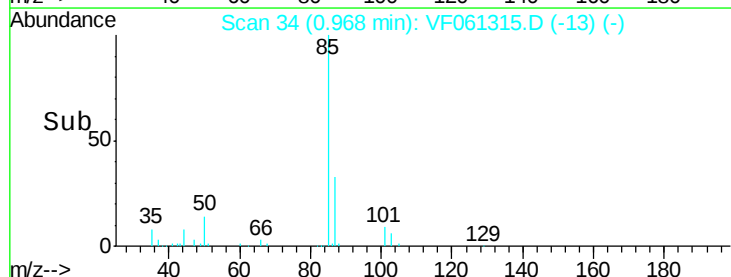
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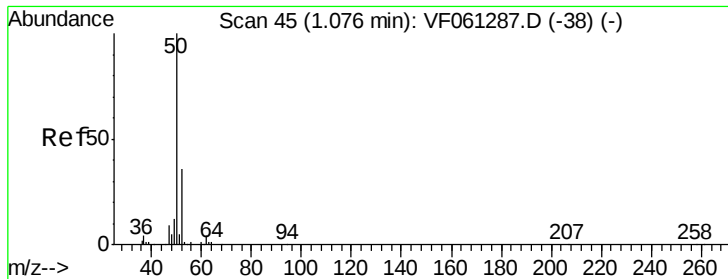
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 45.506 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 140986

Ion Ratio Lower Upper

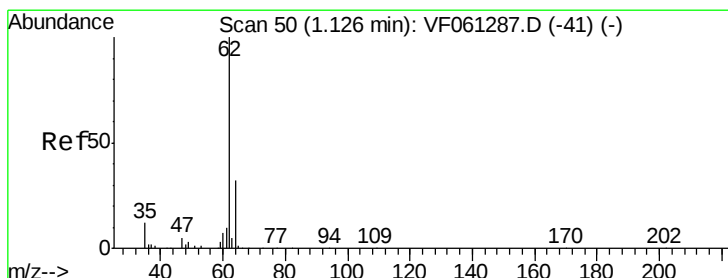
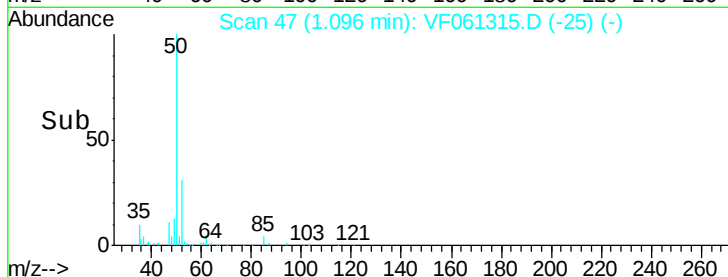
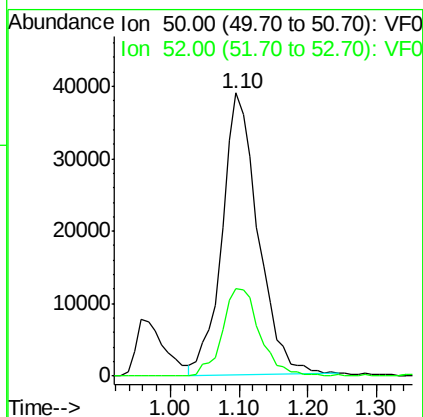
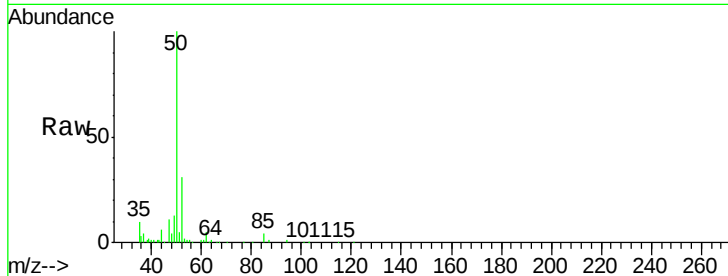
50 100

52 31.1 28.2 42.2

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#4

Vinyl Chloride

Concen: 44.638 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.02 min

Lab File: VF061315.D

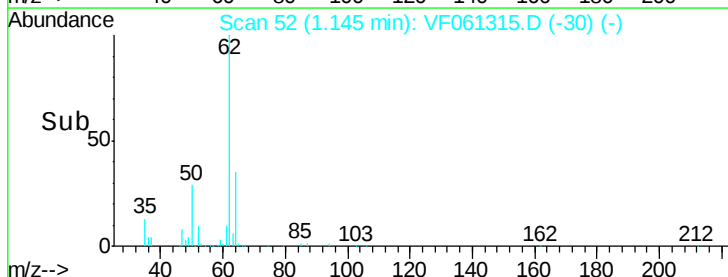
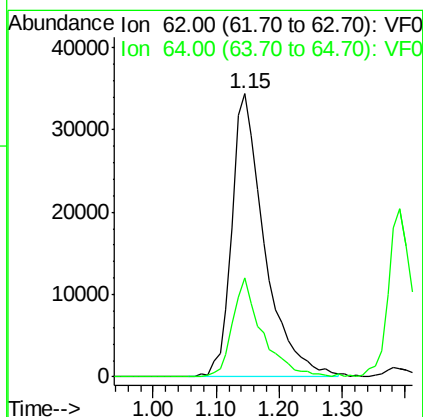
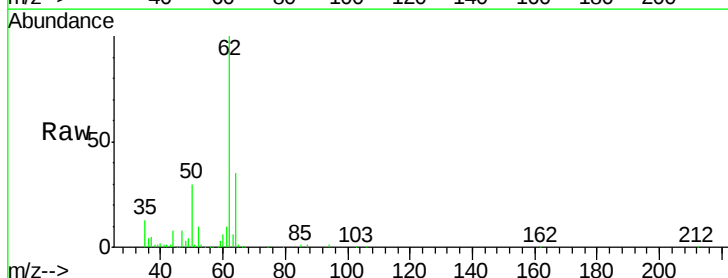
Acq: 9 Jan 2019 23:22

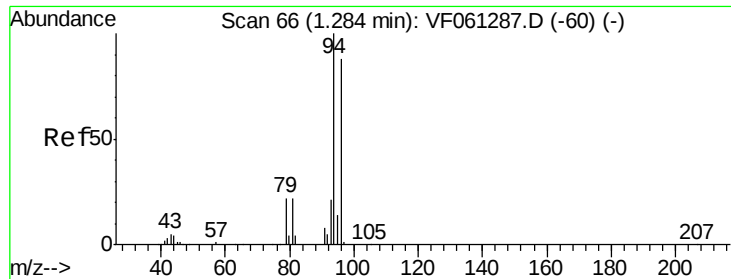
Tgt Ion: 62 Resp: 123520

Ion Ratio Lower Upper

62 100

64 34.9 25.4 38.0





#5

Bromomethane

Concen: 40.622 ug/l

RT: 1.31 min Scan# 69

Delta R.T. 0.03 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 87941

Ion Ratio Lower Upper

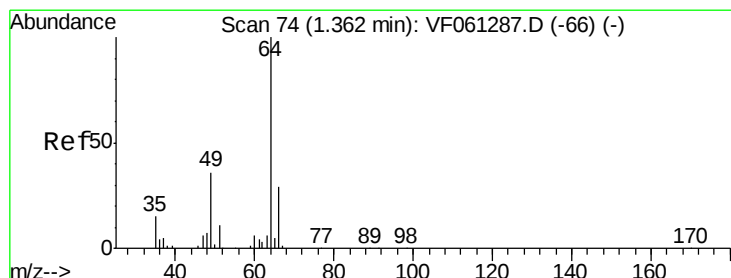
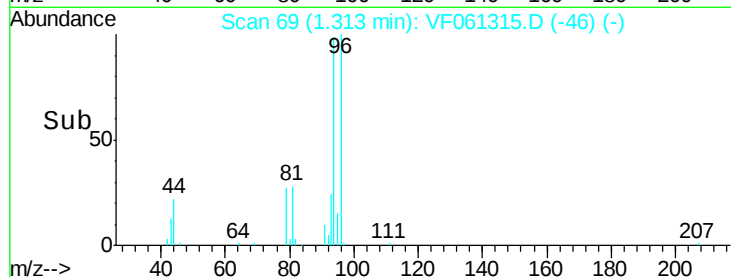
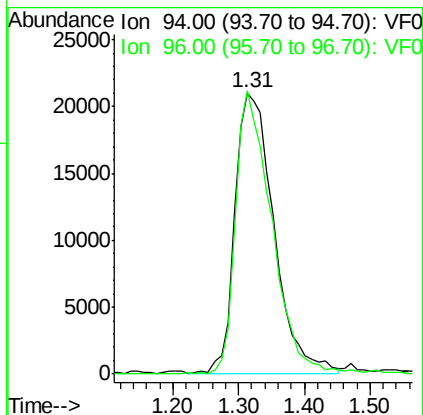
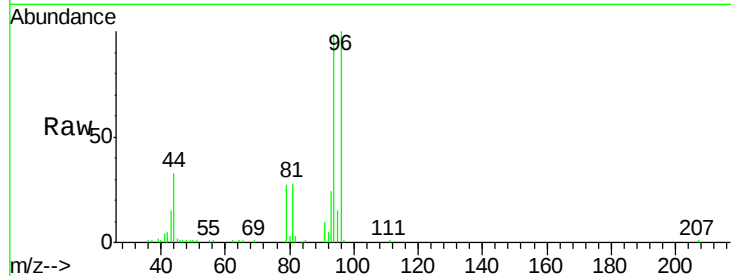
94 100

96 100.6 70.2 105.4

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#6

Chloroethane

Concen: 41.739 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.03 min

Lab File: VF061315.D

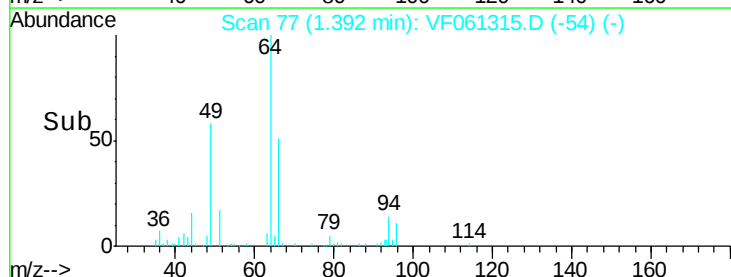
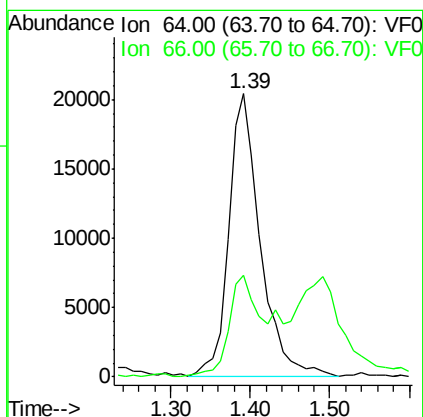
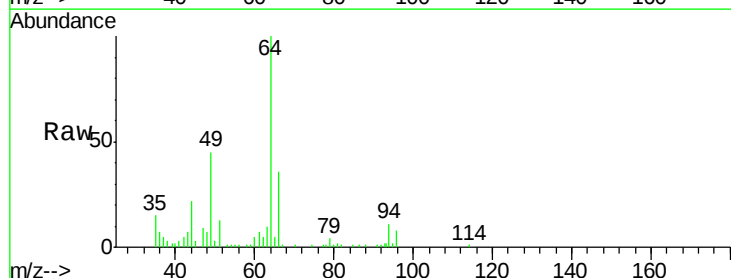
Acq: 9 Jan 2019 23:22

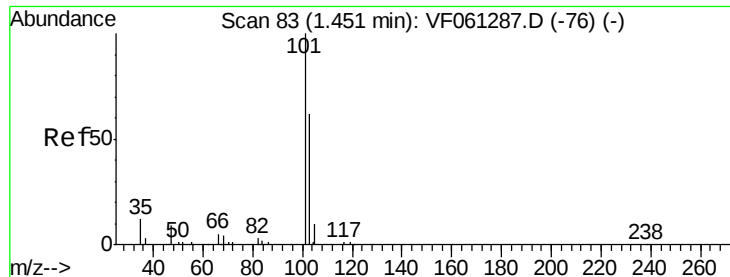
Tgt Ion: 64 Resp: 56400

Ion Ratio Lower Upper

64 100

66 35.7 23.4 35.0#





#7

Trichlorofluoromethane

Concen: 47.660 ug/l

RT: 1.48 min Scan# 86

Delta R.T. 0.03 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:101 Resp: 223571

Ion Ratio Lower Upper

101 100

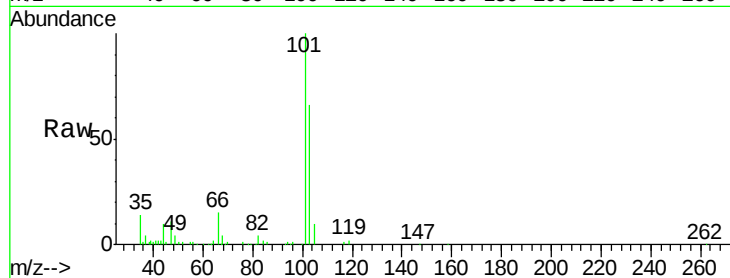
103 65.7 49.9 74.9

Manual Integrations

APPROVED

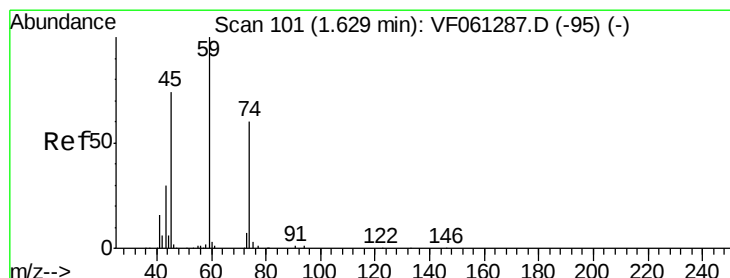
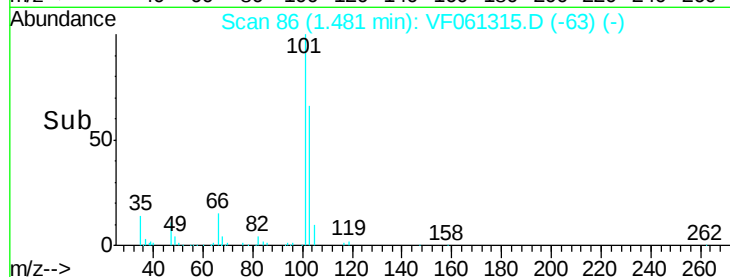
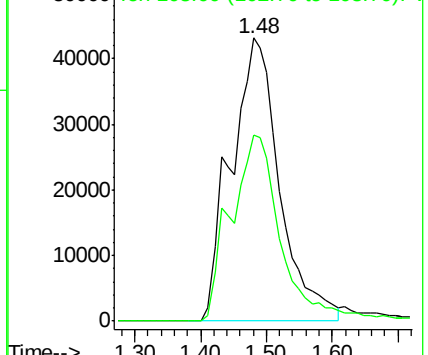
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 54.122 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF061315.D

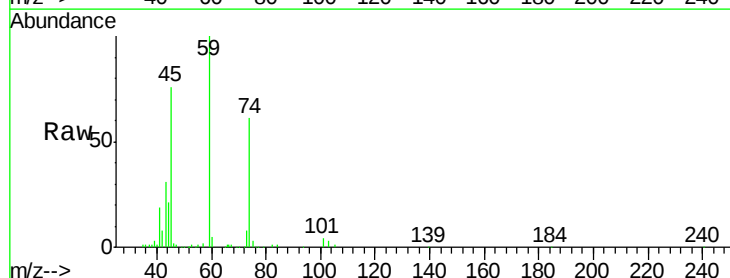
Acq: 9 Jan 2019 23:22

Tgt Ion: 74 Resp: 37281

Ion Ratio Lower Upper

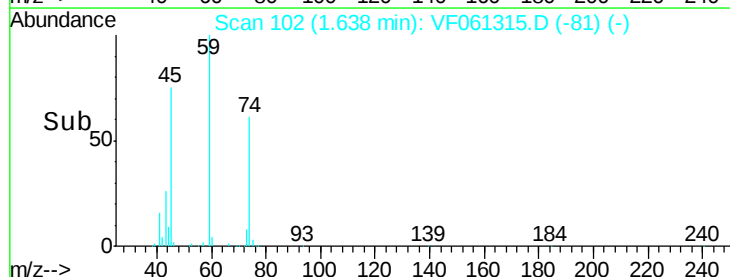
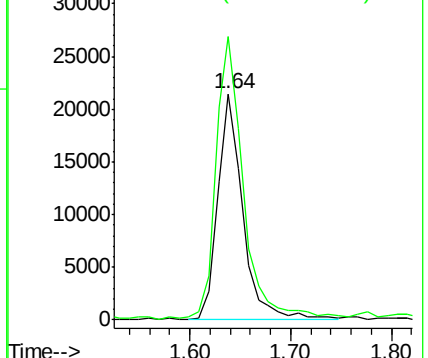
74 100

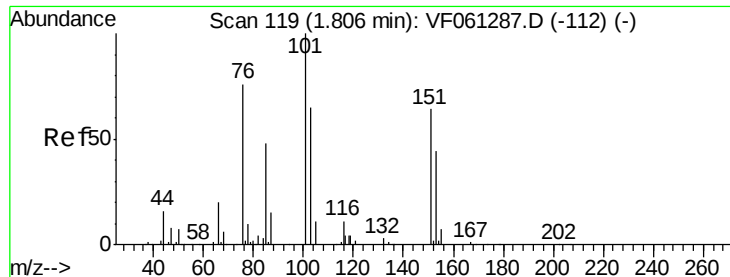
45 125.3 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





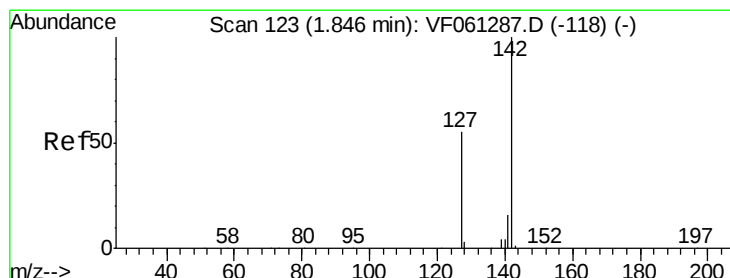
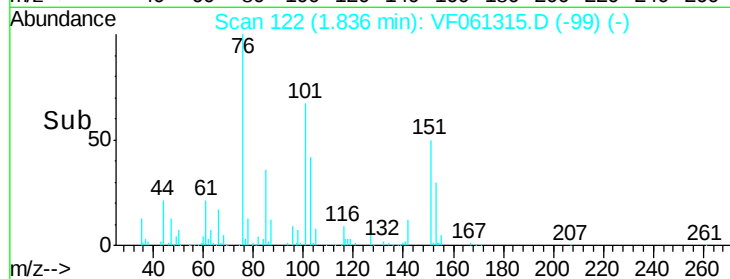
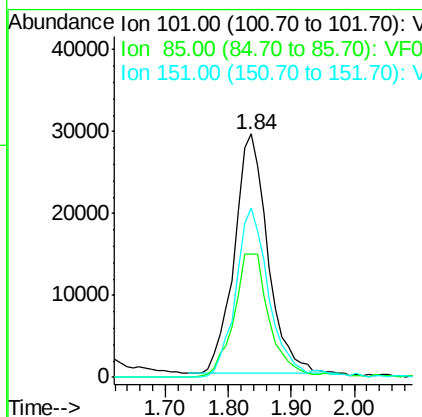
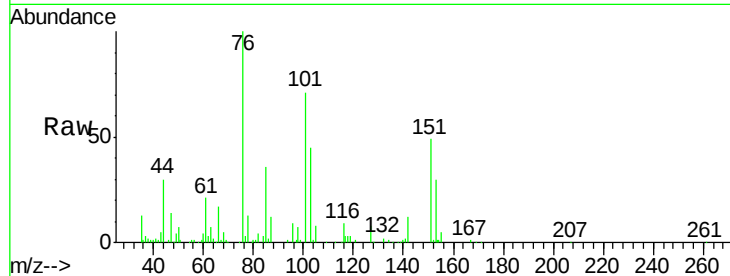
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 43.647 ug/l
 RT: 1.84 min Scan# 122
 Delta R.T. 0.03 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

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 MSVOA_F
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 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	108110		
85	50.5	38.4	57.6	
151	69.6	51.4	77.2	

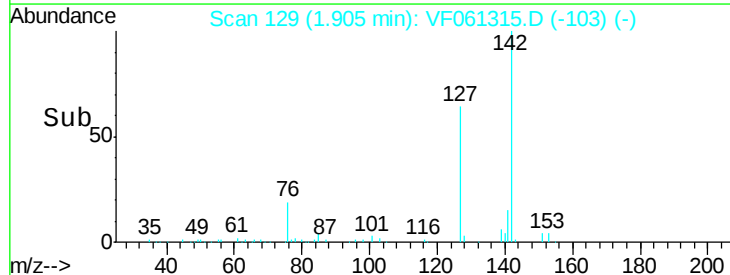
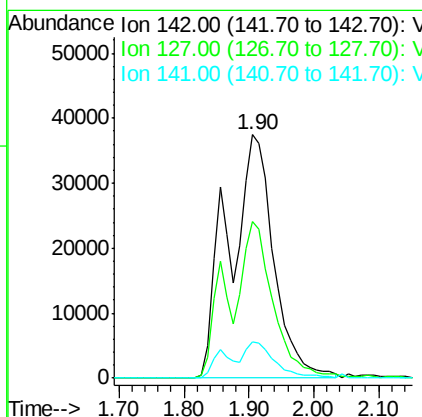
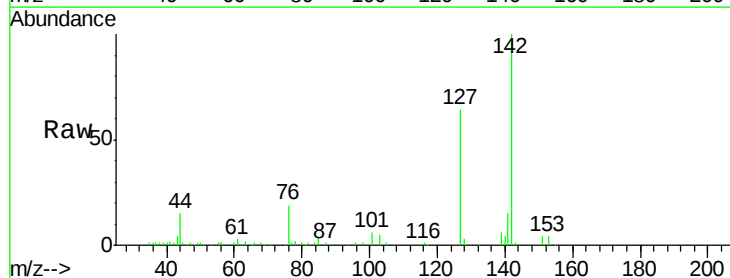
Manual Integrations
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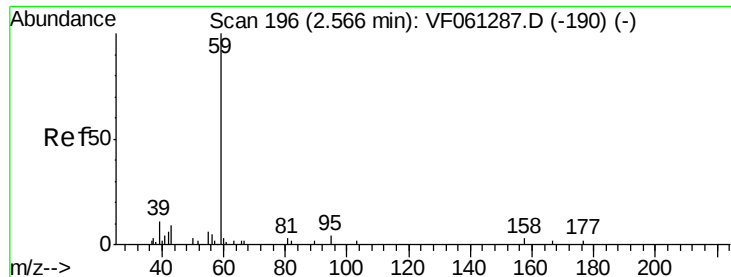
MMDadoda
 1/10/2019 3:31:52 PM



#10
 Methyl Iodide
 Concen: 46.428 ug/l m
 RT: 1.90 min Scan# 129
 Delta R.T. 0.06 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	180166		
127	64.4	44.3	66.5	
141	15.1	13.2	19.8	





#11

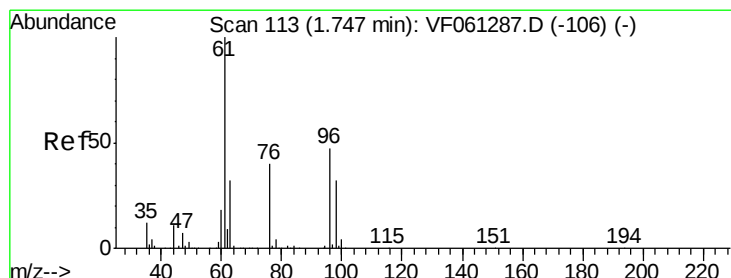
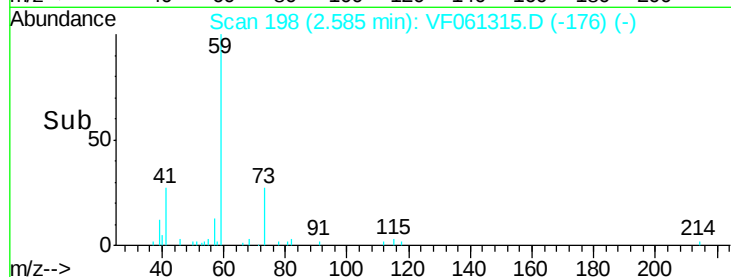
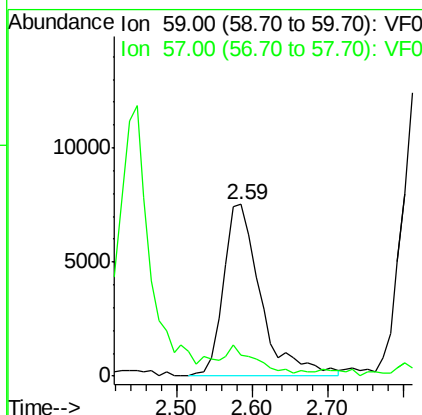
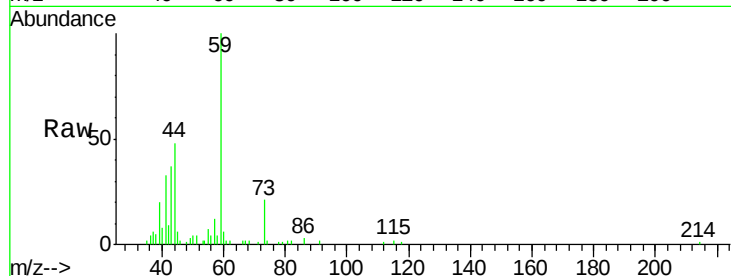
Tert butyl alcohol
Concen: 307.116 ug/l
RT: 2.59 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.0	15.1	22.7#

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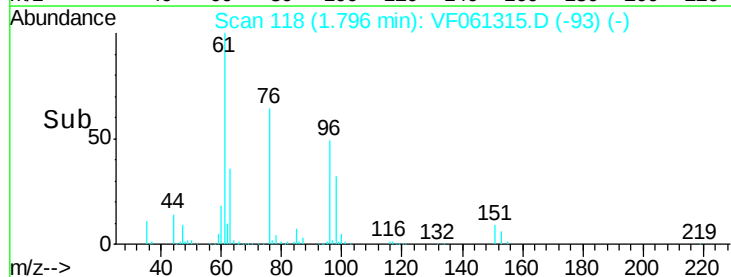
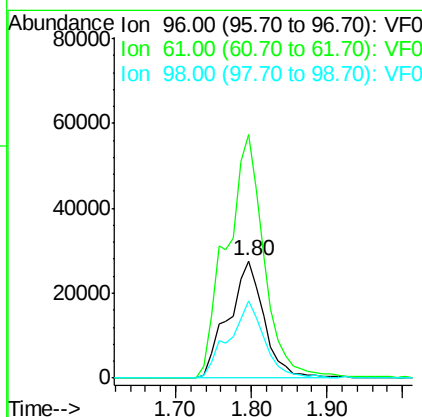
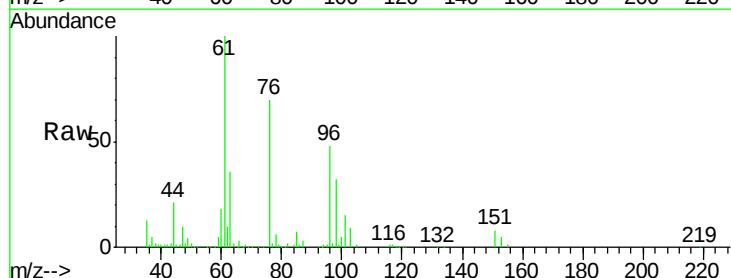
MMDadoda
1/10/2019 3:31:52 PM

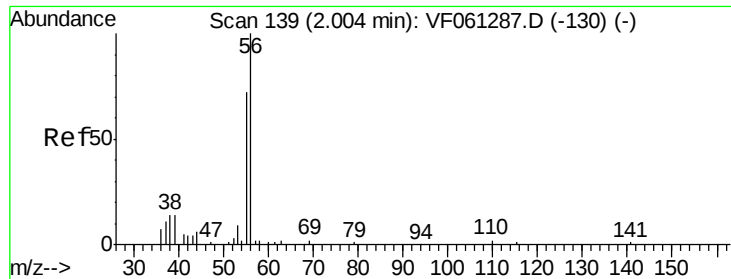


#12

1,1-Dichloroethene
Concen: 45.834 ug/l
RT: 1.80 min Scan# 118
Delta R.T. 0.05 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	207.7	171.8	257.8
98	66.1	54.2	81.4





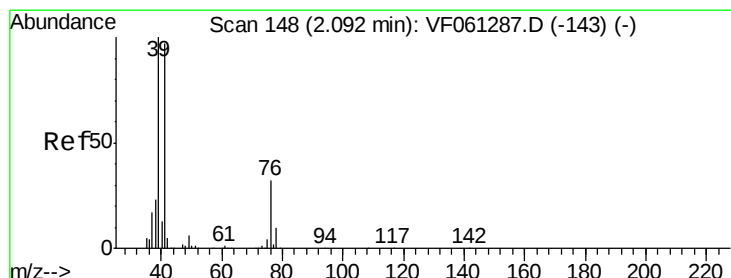
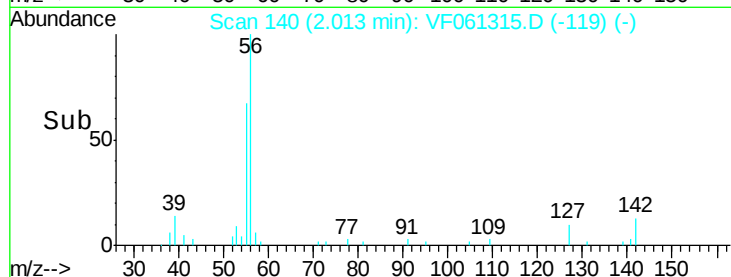
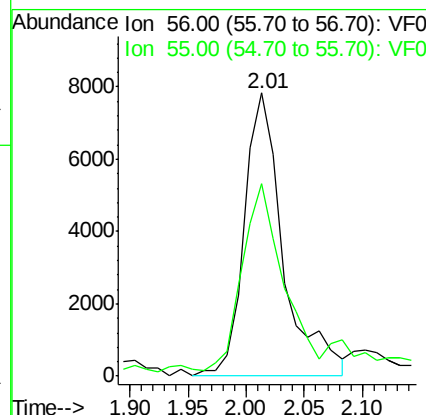
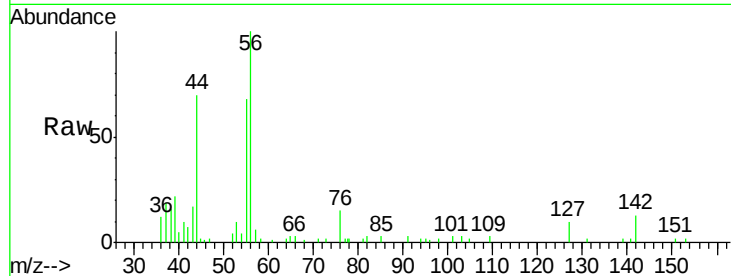
#13
Acrolein
Concen: 195.472 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	18277
Ion Ratio	100	Lower	Upper
55	68.2	59.4	89.0

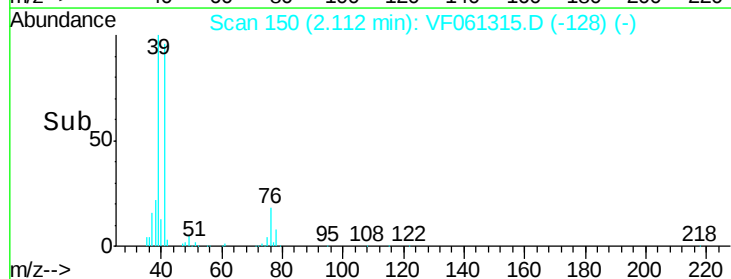
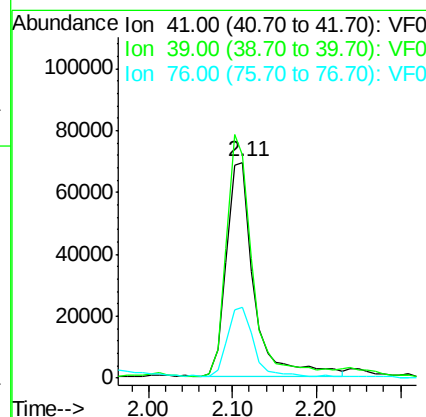
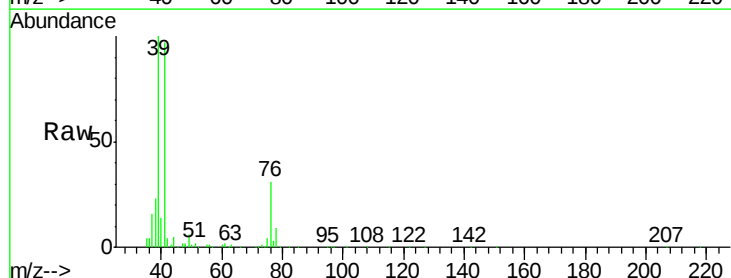
Manual Integrations
APPROVED

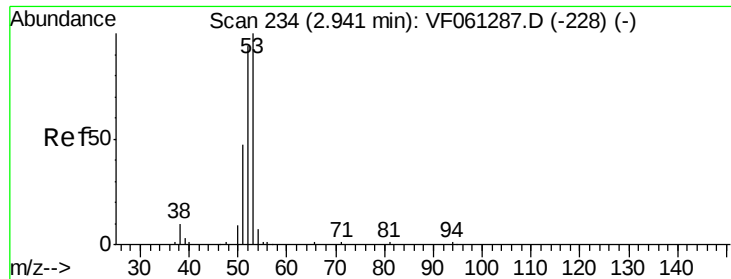
MMDadoda
1/10/2019 3:31:52 PM



#14
Allyl chloride
Concen: 43.353 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	41	Resp	156952
Ion Ratio	100	Lower	Upper
39	103.6	82.6	123.8
76	32.5	26.9	40.3





#15

Acrylonitrile

Concen: 237.365 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

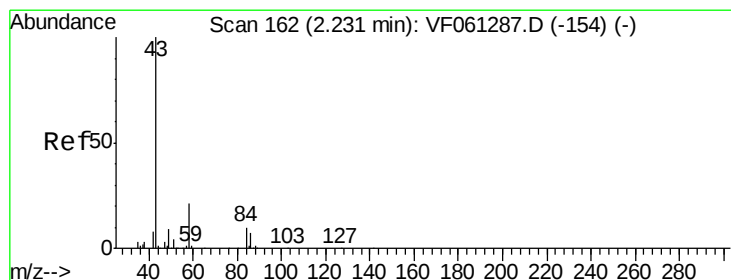
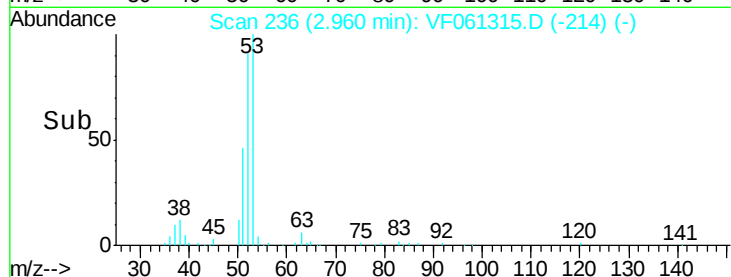
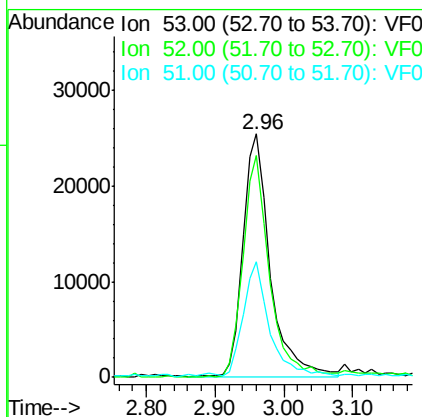
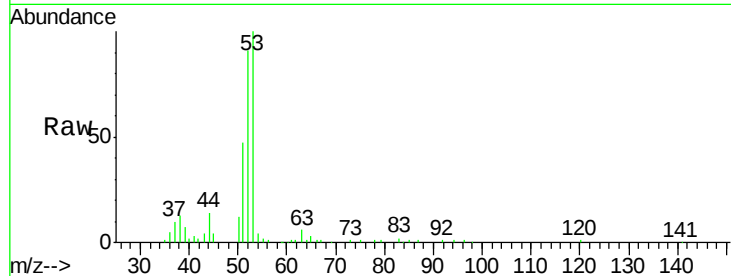
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	70680
Ion	Ratio	Lower	Upper
53	100		
52	91.1	74.6	111.8
51	47.3	37.8	56.6

Manual Integrations
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#16

Acetone

Concen: 207.197 ug/l

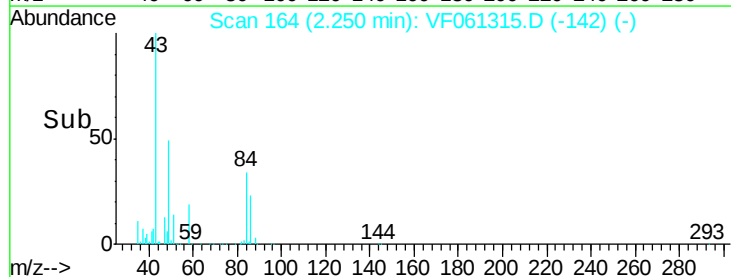
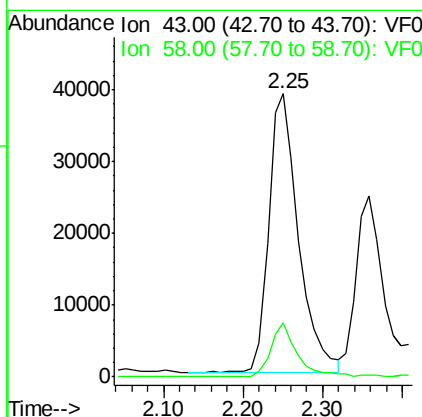
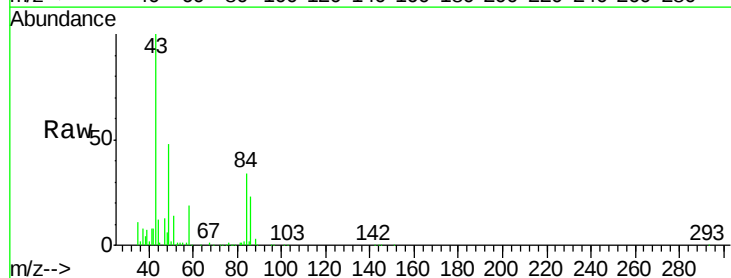
RT: 2.25 min Scan# 164

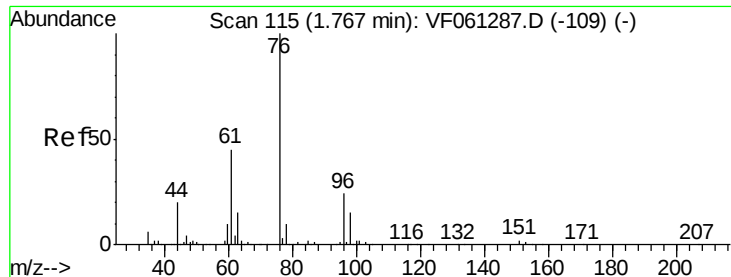
Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	43	Resp:	101119
Ion	Ratio	Lower	Upper
43	100		
58	19.1	16.6	25.0





#17

Carbon Disulfide

Concen: 42.365 ug/l

RT: 1.82 min Scan# 120

Delta R.T. 0.05 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 277157

Ion Ratio Lower Upper

76 100

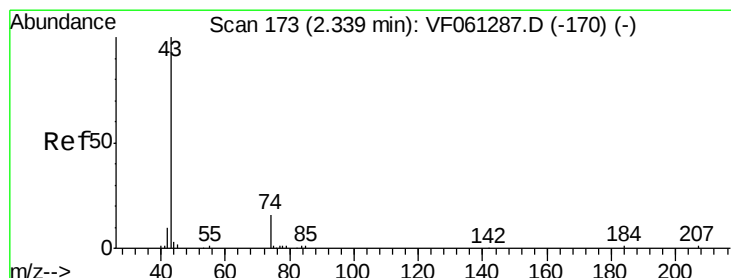
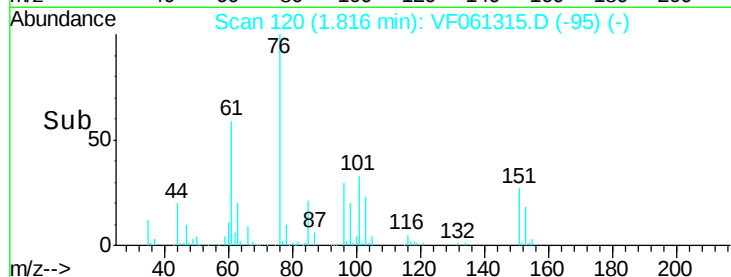
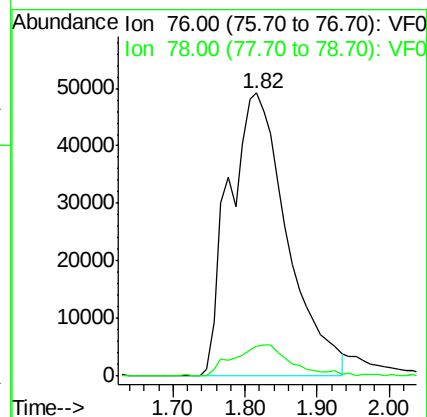
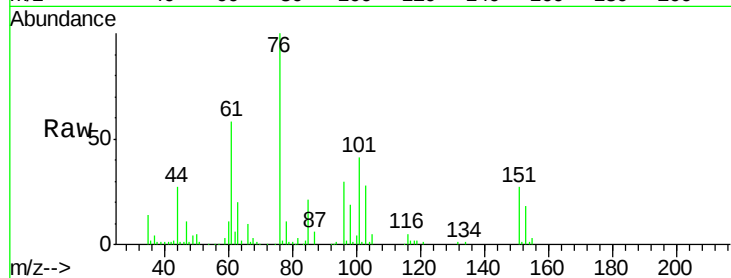
78 10.6 7.8 11.6

Manual Integrations

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#18

Methyl Acetate

Concen: 54.073 ug/l m

RT: 2.36 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF061315.D

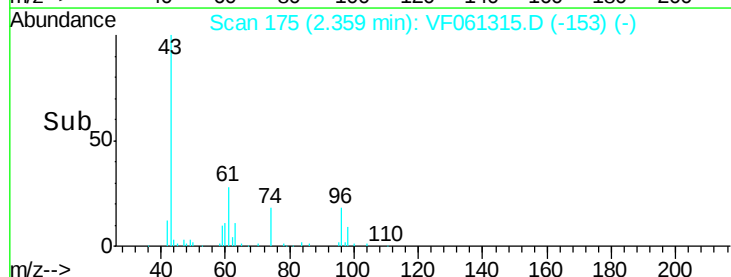
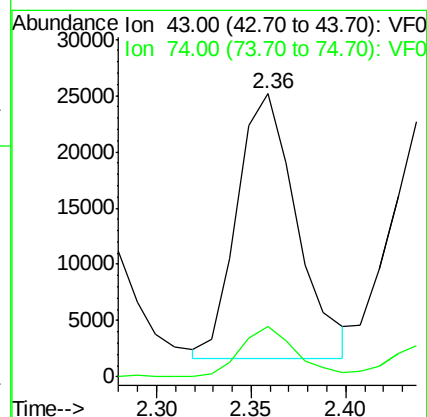
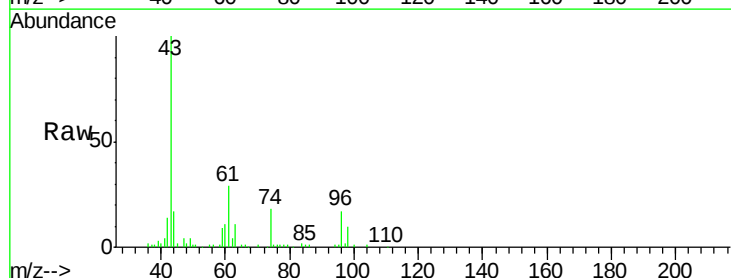
Acq: 9 Jan 2019 23:22

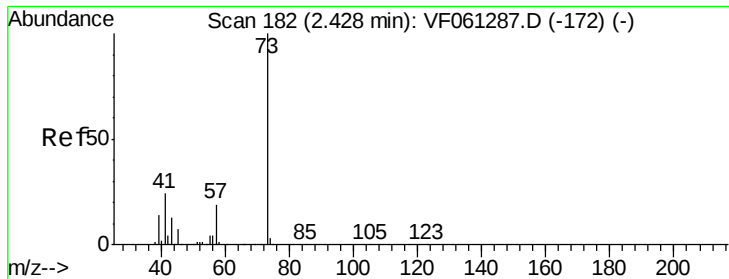
Tgt Ion: 43 Resp: 51920

Ion Ratio Lower Upper

43 100

74 17.7 11.6 17.4#





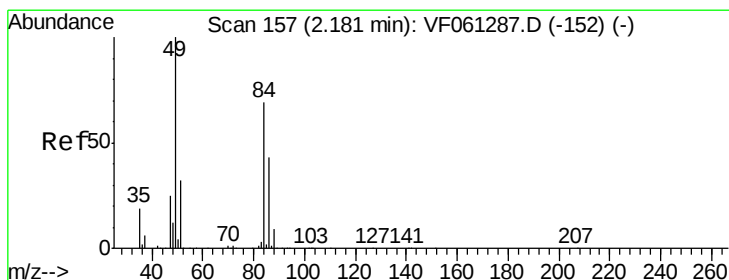
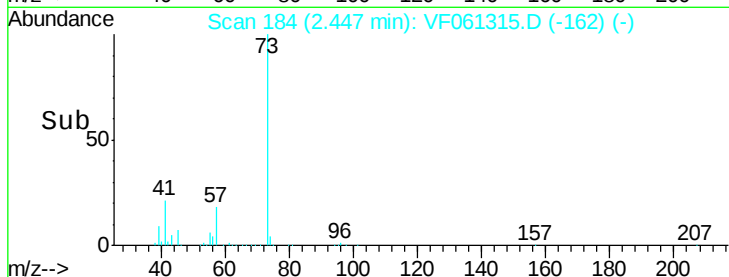
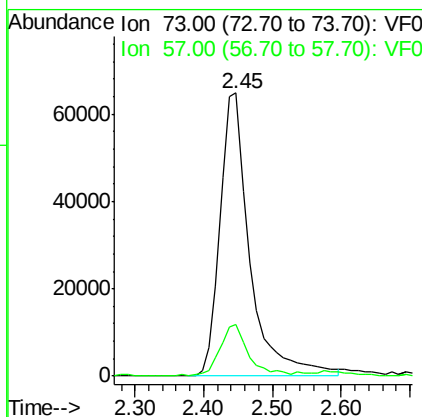
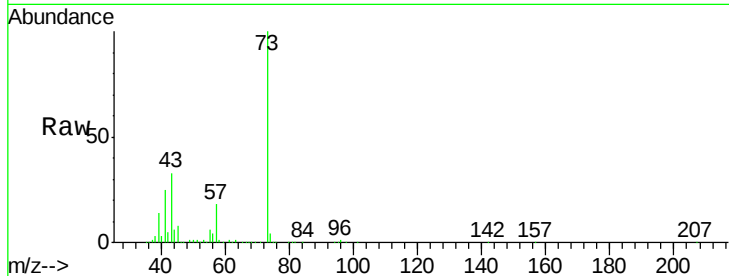
#19
Methvl tert-butvl Ether
Concen: 51.923 ug/l
RT: 2.45 min Scan# 184
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 195979
Ion Ratio Lower Upper
73 100
57 18.3 15.5 23.3

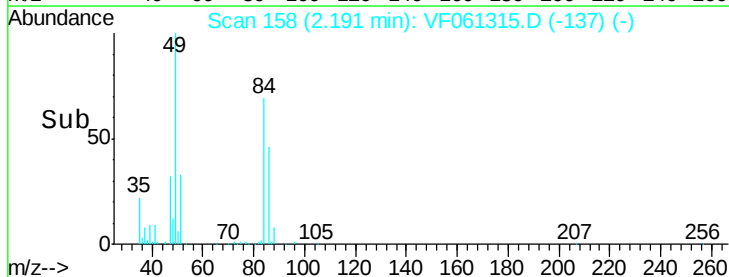
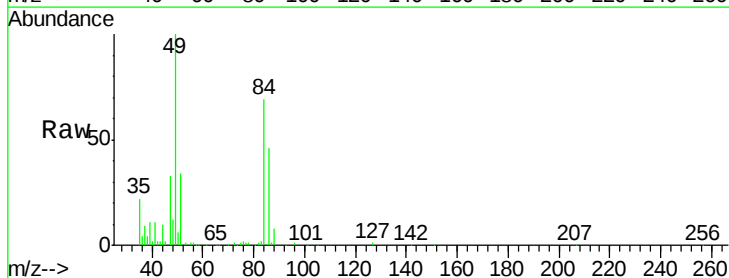
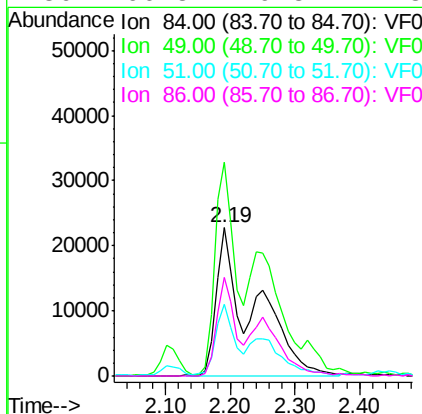
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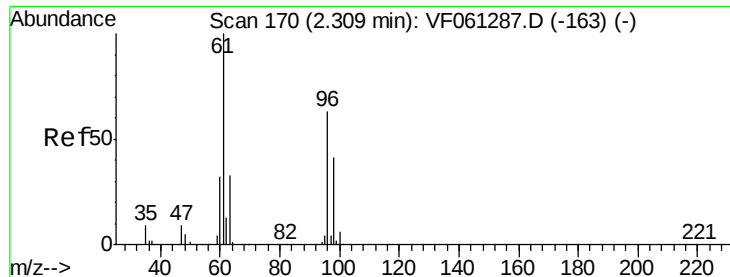
MMDadoda
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#20
Methylene Chloride
Concen: 43.758 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion: 84 Resp: 90346
Ion Ratio Lower Upper
84 100
49 144.3 116.6 175.0
51 48.8 37.7 56.5
86 66.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 44.071 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

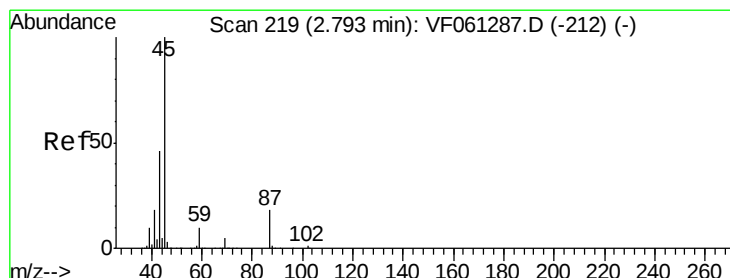
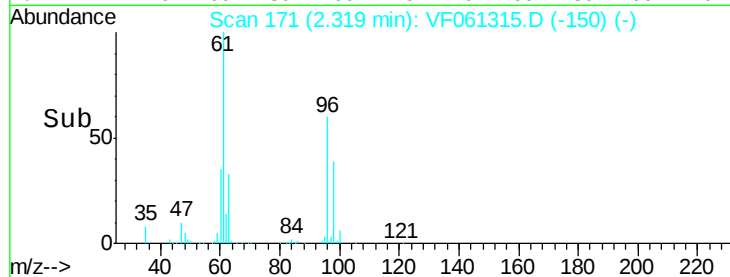
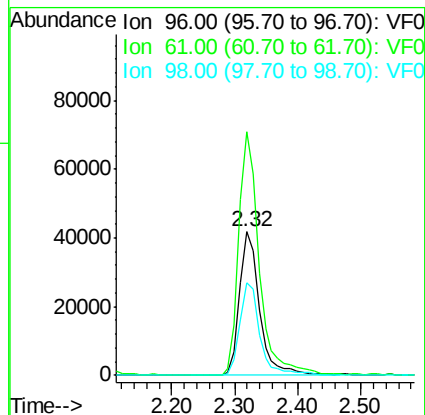
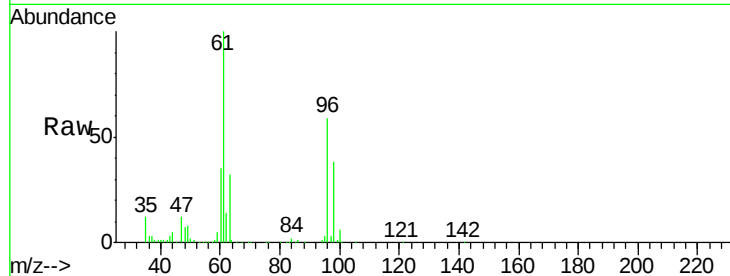
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	92498
Ion	Ratio	Lower	Upper
96	100		
61	169.5	127.0	190.4
98	64.6	51.7	77.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 46.998 ug/l

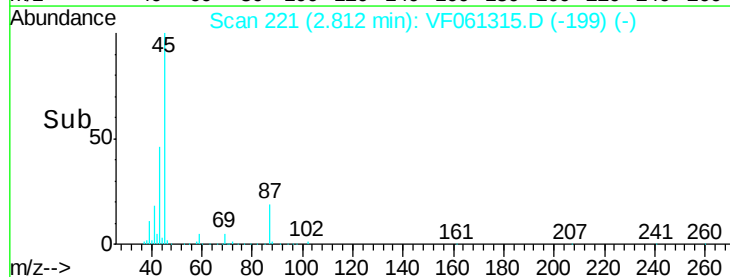
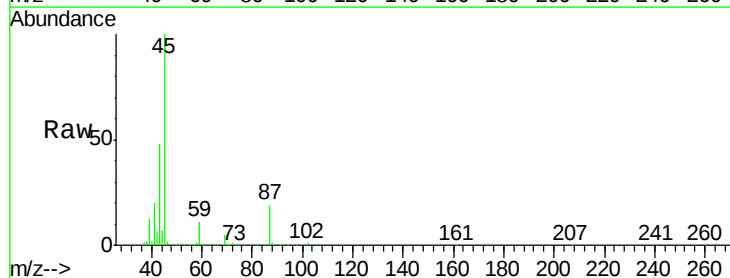
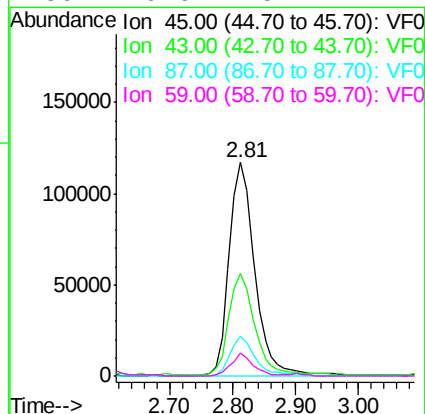
RT: 2.81 min Scan# 221

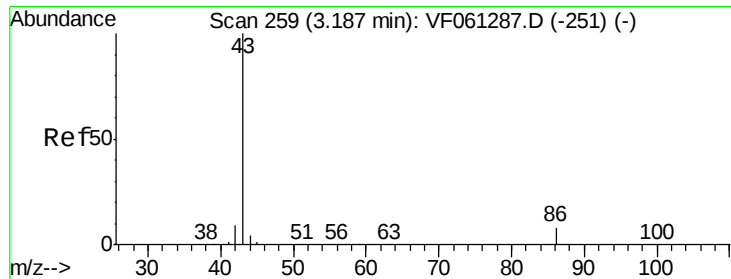
Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	45	Resp:	329181
Ion	Ratio	Lower	Upper
45	100		
43	47.8	37.4	56.2
87	18.8	14.2	21.2
59	10.6	8.2	12.2





#23

Vinyl Acetate

Concen: 330.396 ug/l

RT: 3.21 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 676762

Ion Ratio Lower Upper

43 100

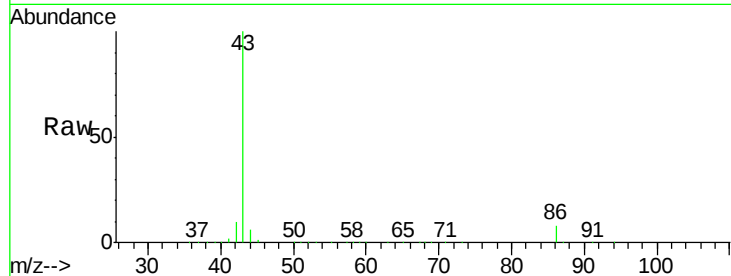
86 8.2 6.5 9.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

300000

250000

200000

150000

100000

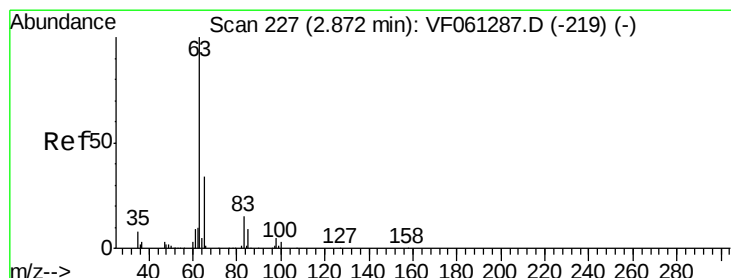
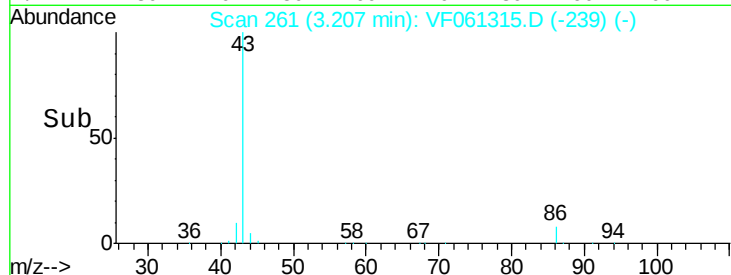
50000

0

3.21

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 48.186 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

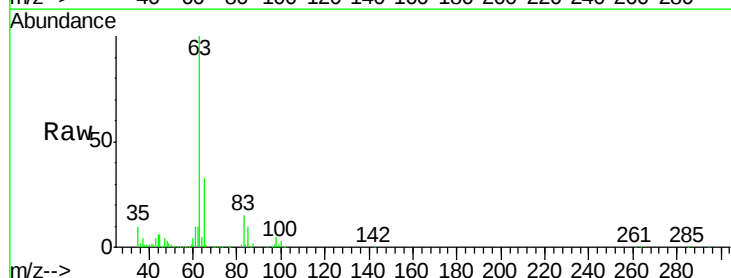
Tgt Ion: 63 Resp: 195231

Ion Ratio Lower Upper

63 100

98 4.6 2.5 7.6

100 2.7 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

100000

80000

60000

40000

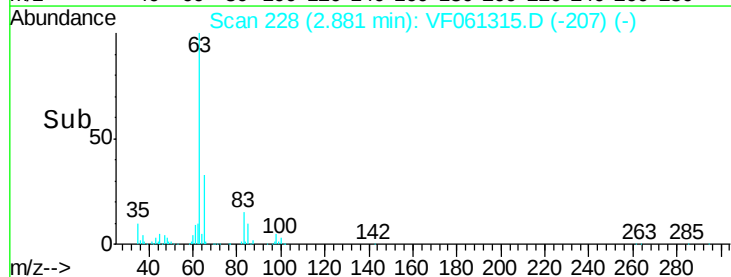
20000

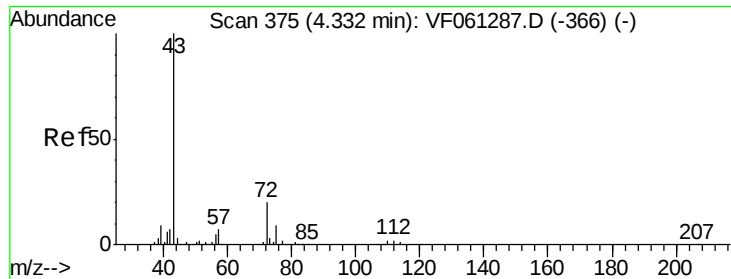
0

2.88

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 277.123 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 217675

Ion Ratio Lower Upper

43 100

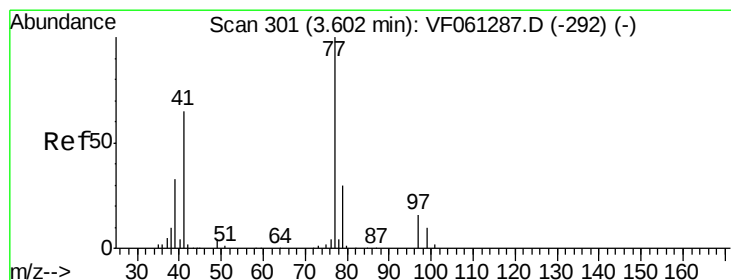
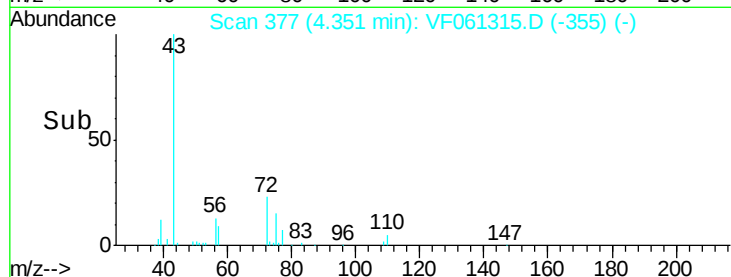
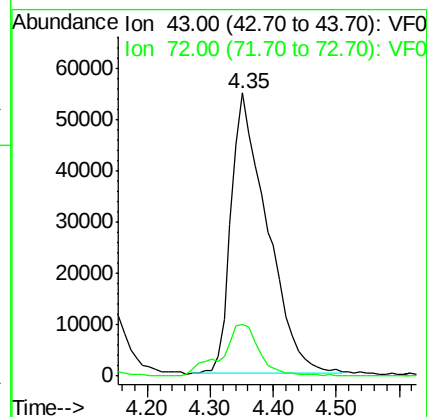
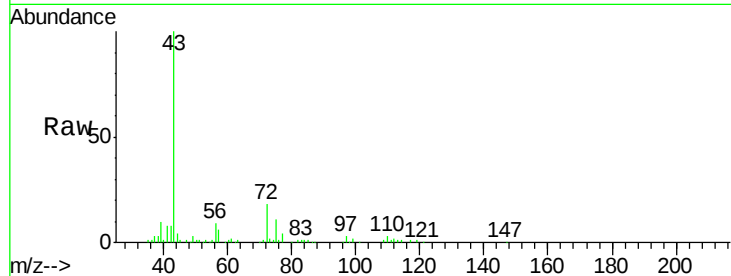
72 18.2 16.5 24.7

Manual Integrations

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MMDadoda

1/10/2019 3:31:52 PM



#26

2,2-Dichloropropane

Concen: 39.032 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF061315.D

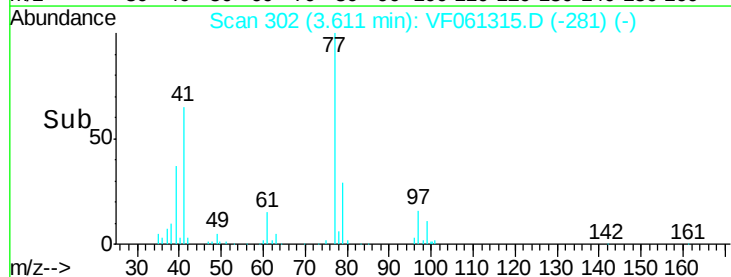
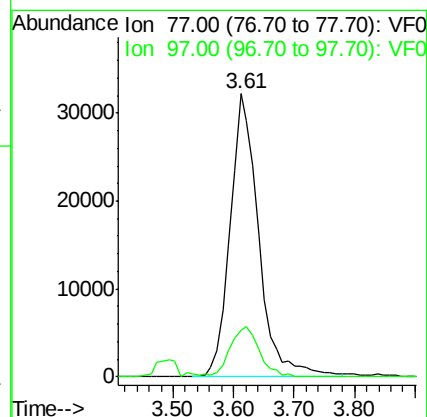
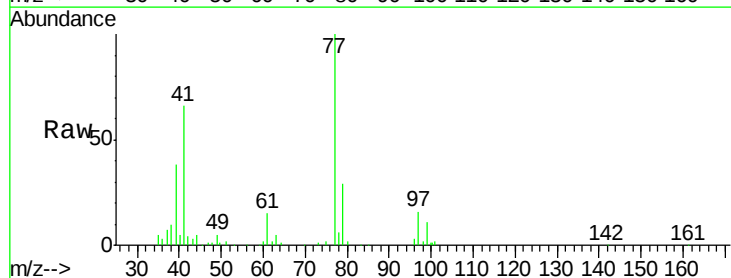
Acq: 9 Jan 2019 23:22

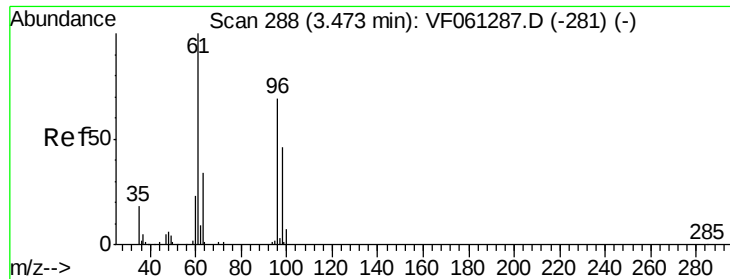
Tgt Ion: 77 Resp: 105677

Ion Ratio Lower Upper

77 100

97 16.5 8.6 25.9





#27

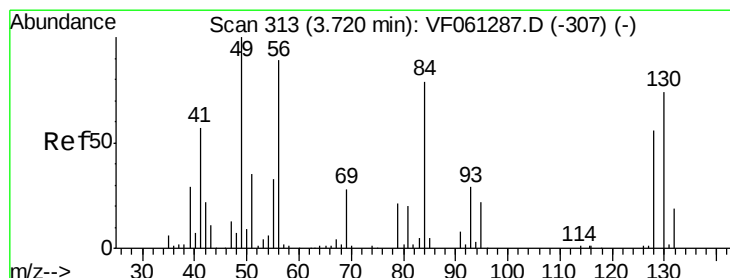
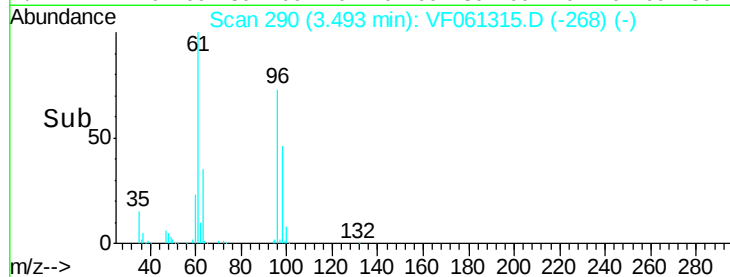
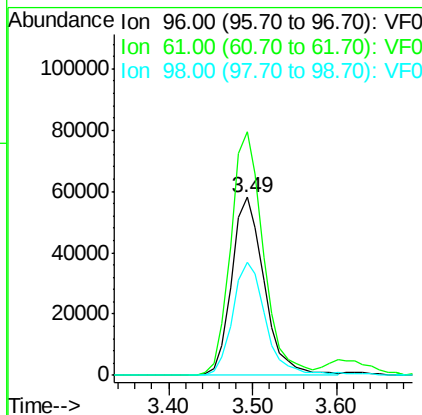
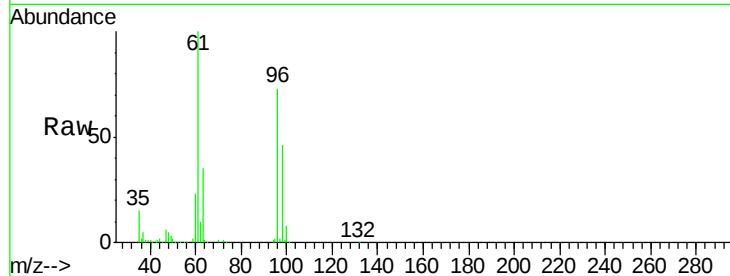
cis-1,2-Dichloroethene
Concen: 53.692 ug/l
RT: 3.49 min Scan# 290
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	288.2
98	63.4	0.0	132.2

Manual Integrations
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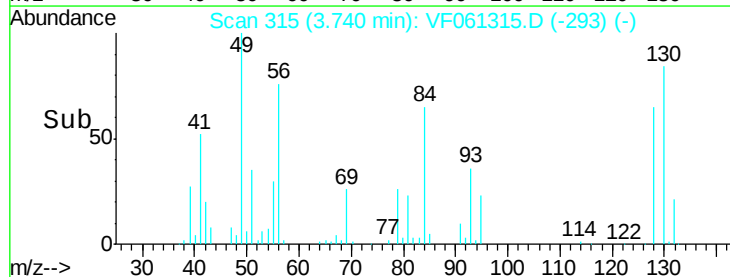
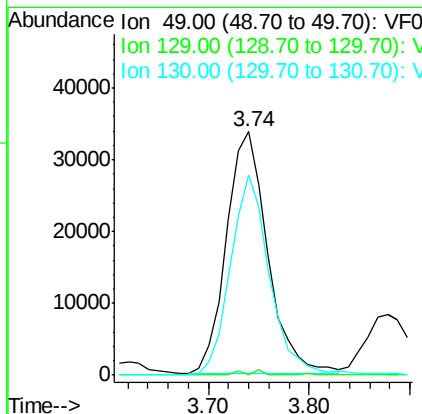
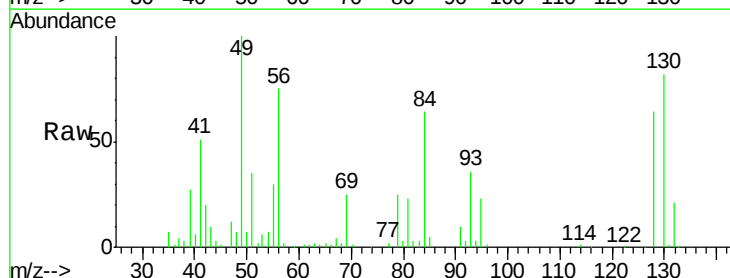
MMDadoda
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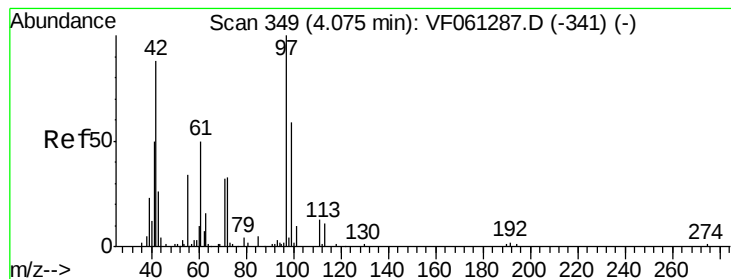


#28

Bromochloromethane
Concen: 53.474 ug/l
RT: 3.74 min Scan# 315
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	82.1	58.6	88.0





#29

Tetrahydrofuran

Concen: 291.249 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

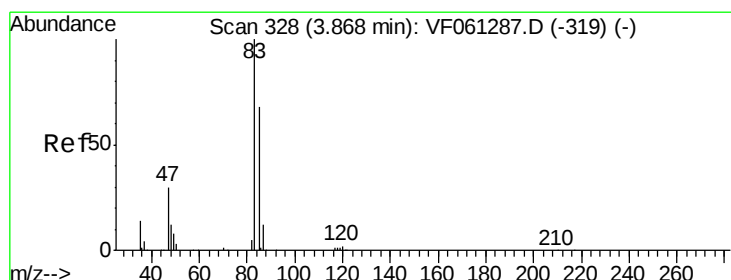
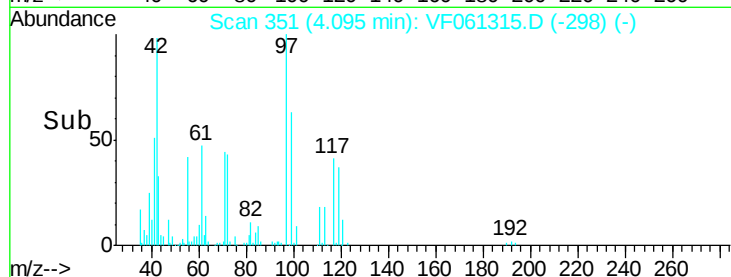
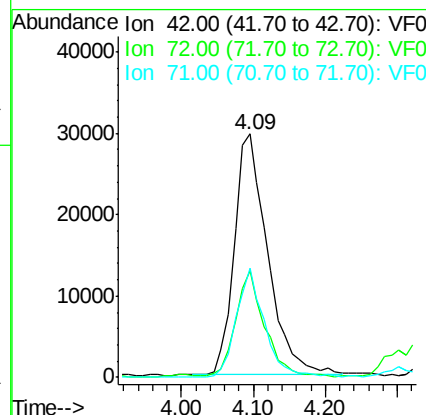
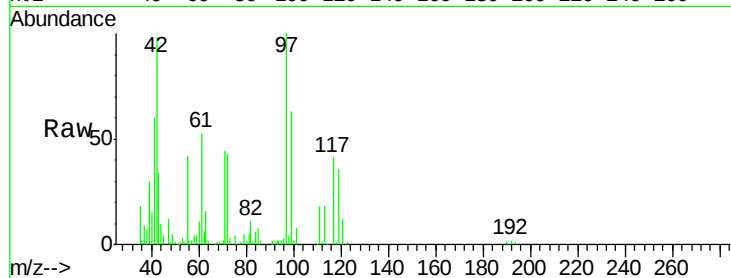
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	95651
Ion Ratio	Lower	Upper	
42	100		
72	39.1	32.3	48.5
71	38.7	29.5	44.3

Manual Integrations
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#30

Chloroform

Concen: 52.786 ug/l

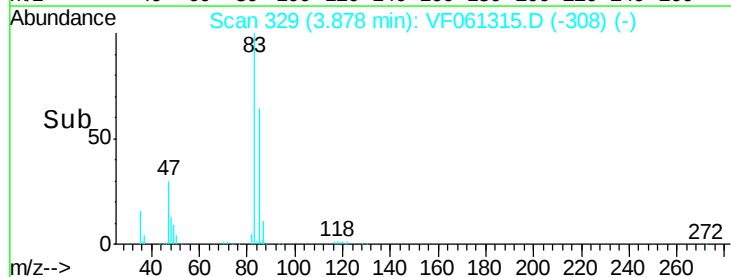
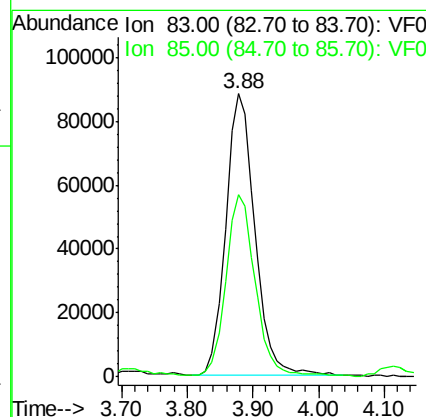
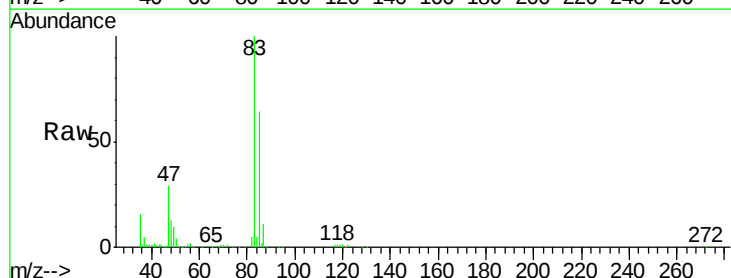
RT: 3.88 min Scan# 329

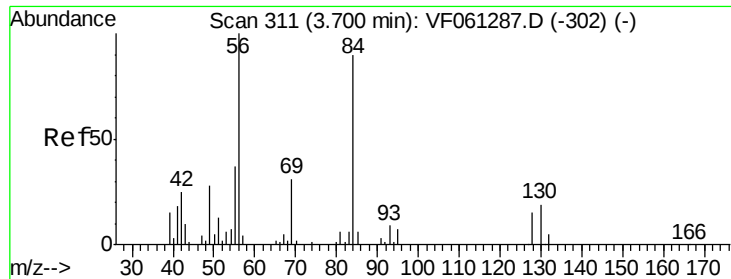
Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	83	Resp:	271493
Ion Ratio	Lower	Upper	
83	100		
85	64.4	54.4	81.6





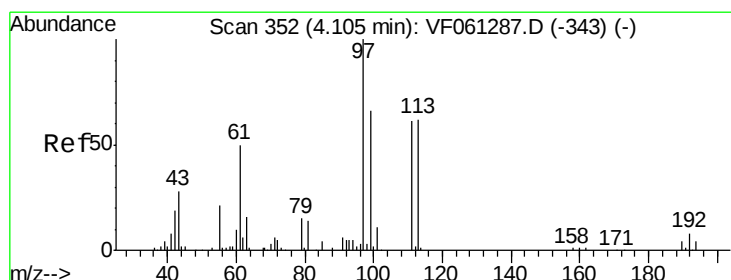
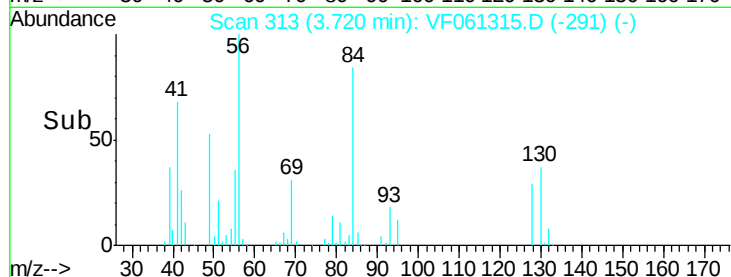
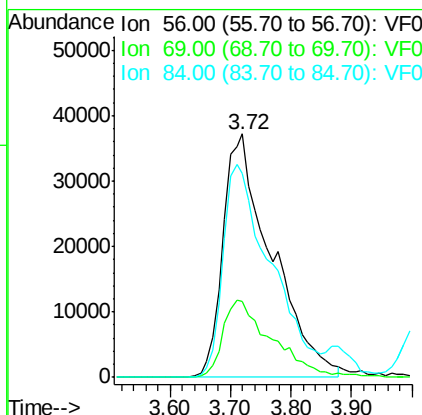
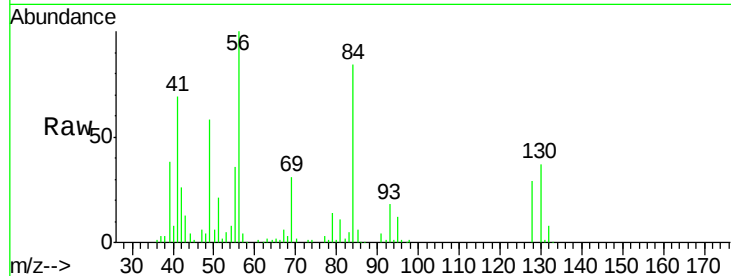
#31
Cyclohexane
Concen: 48.722 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	31.1	24.7	37.1	
84	83.7	72.2	108.4	

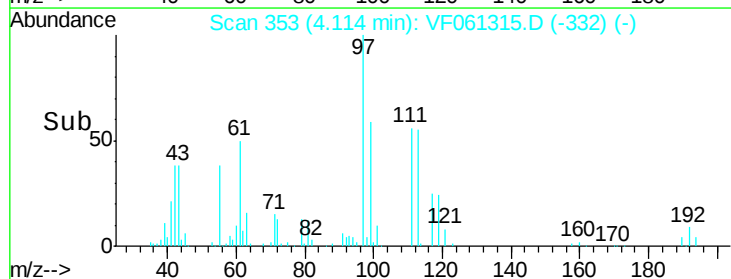
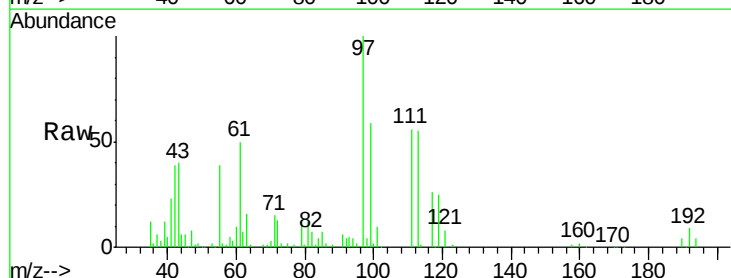
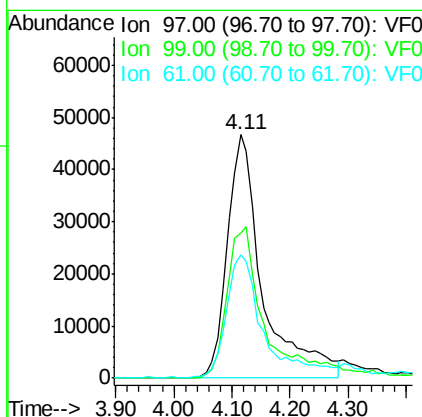
Manual Integrations
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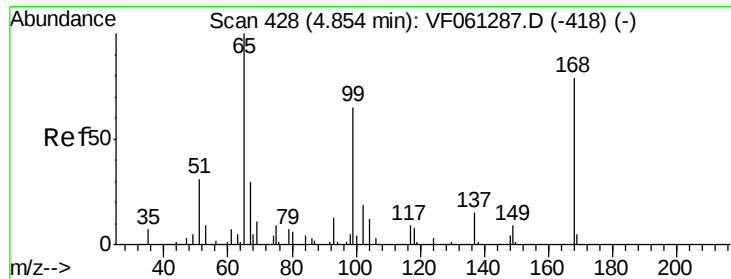
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1/10/2019 3:31:52 PM



#32
1,1,1-Trichloroethane
Concen: 47.702 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	59.5	52.7	79.1	
61	50.5	40.8	61.2	





#33

1,2-Dichloroethane-d4

Concen: 55.461 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tot Ion: 65 Resp: 116353

Ion Ratio Lower Upper

65 100

67 49.4 0.0 98.2

Instrument :

MSVOA_F

ClientSampleId :

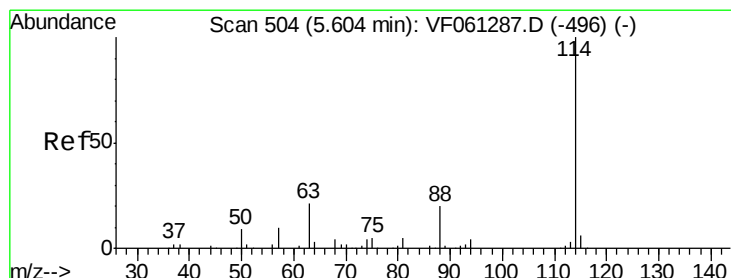
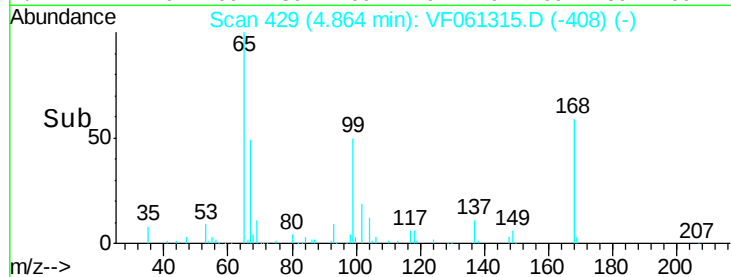
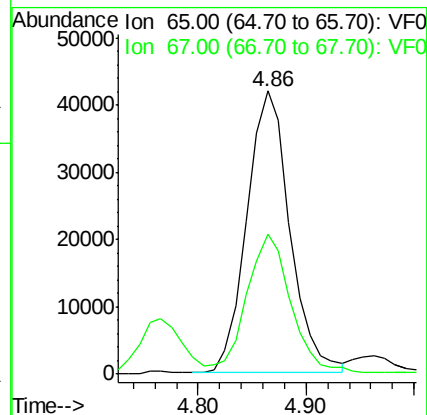
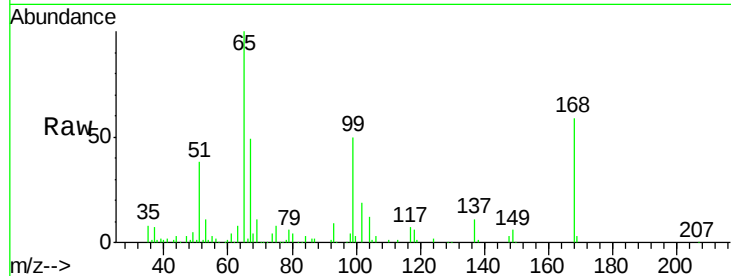
VSTDCCC050

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

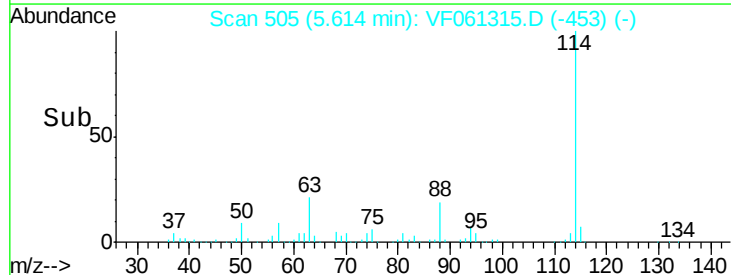
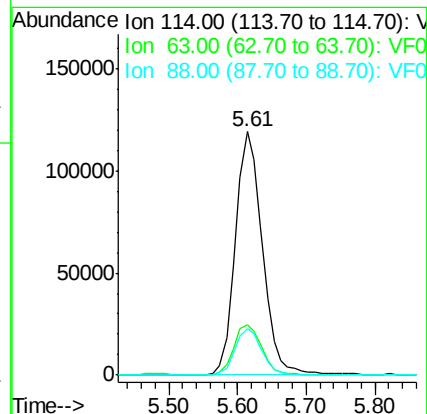
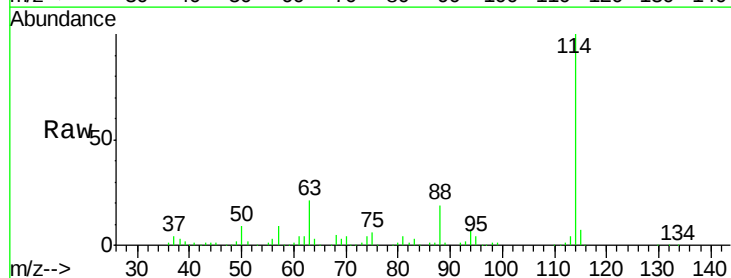
Tgt Ion: 114 Resp: 324498

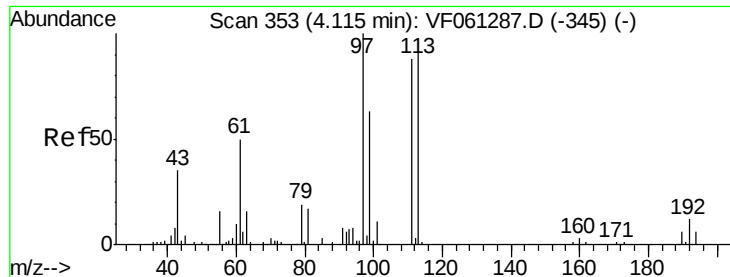
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.8

88 19.3 0.0 40.0





#35

Dibromofluoromethane

Concen: 52.211 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:113 Resp: 129638

Ion Ratio Lower Upper

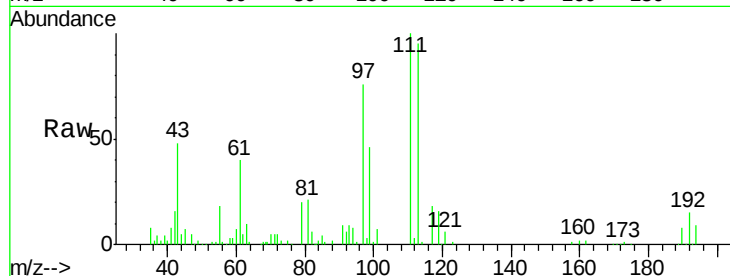
113 100

111 105.5 78.0 117.0

192 16.5 10.6 16.0#

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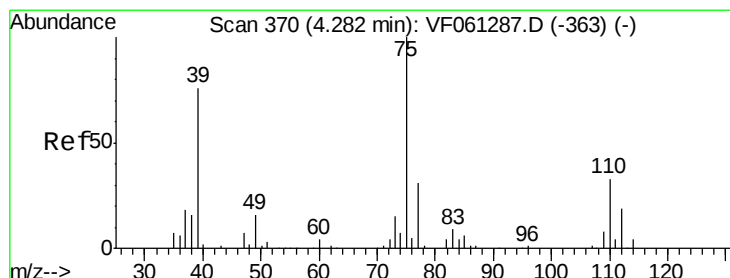
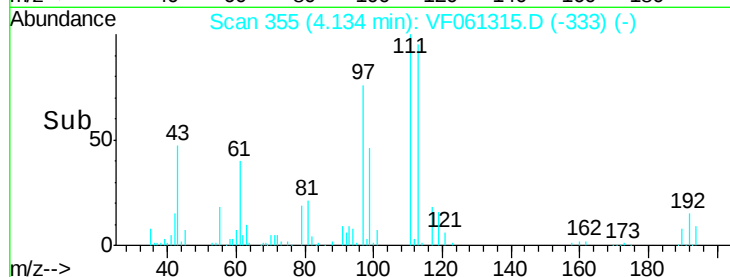
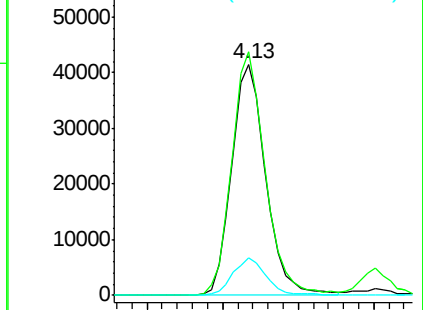
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 54.373 ug/l

RT: 4.30 min Scan# 372

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

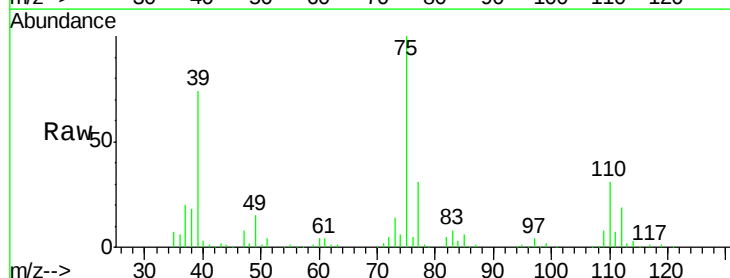
Tgt Ion: 75 Resp: 206037

Ion Ratio Lower Upper

75 100

110 30.7 16.6 49.8

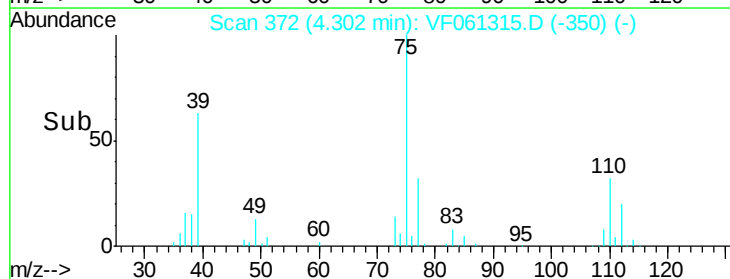
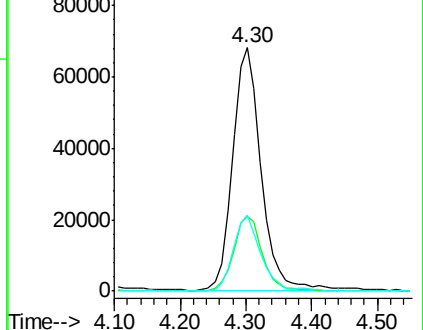
77 31.1 25.1 37.7

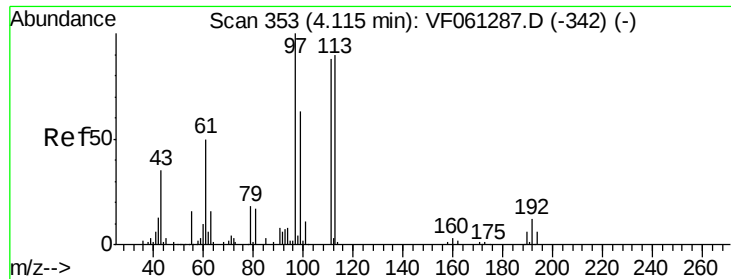


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





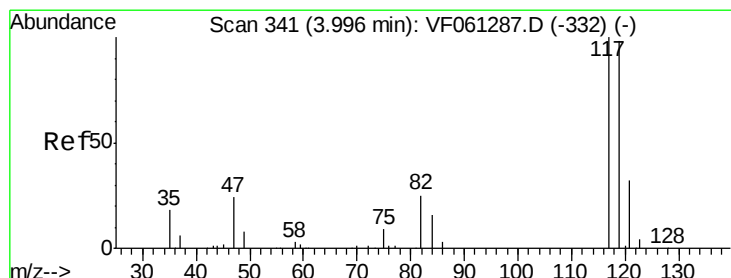
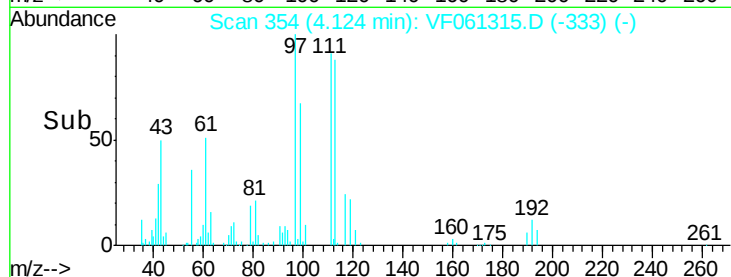
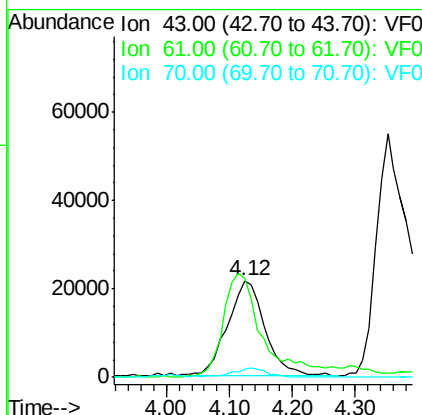
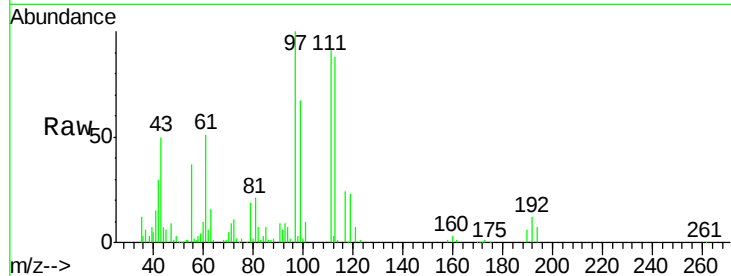
#37
Ethyl Acetate
Concen: 63.018 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	102.0				113.3	169.9#
70	9.0				9.4	14.0#

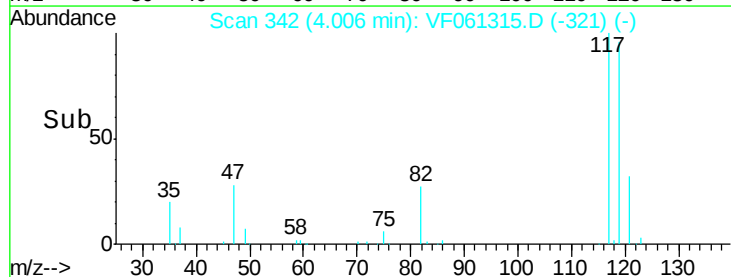
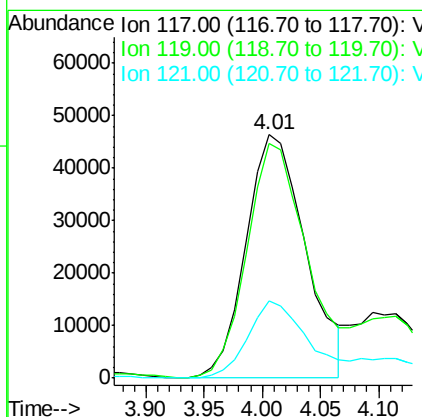
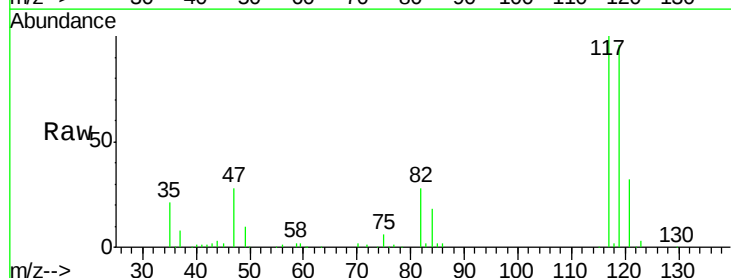
Manual Integrations
APPROVED

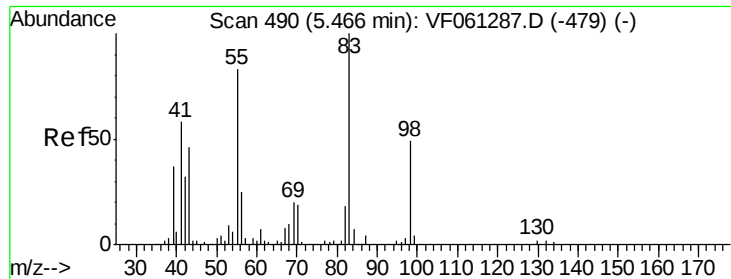
MMDadoda
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#38
Carbon Tetrachloride
Concen: 45.845 ug/l
RT: 4.01 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	96.5				78.5	117.7
121	31.9				25.3	37.9





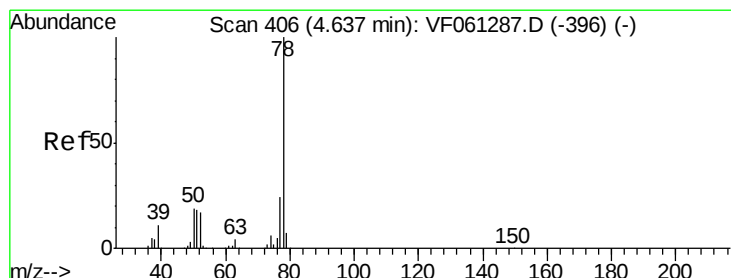
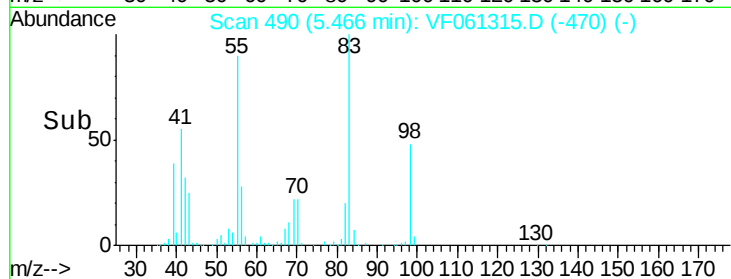
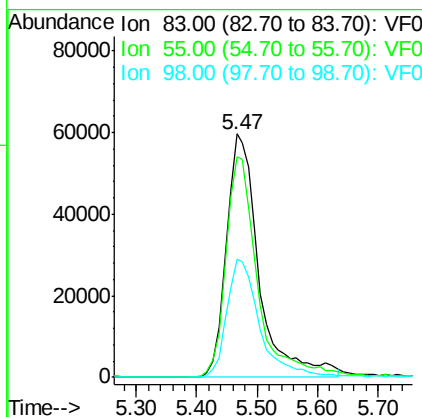
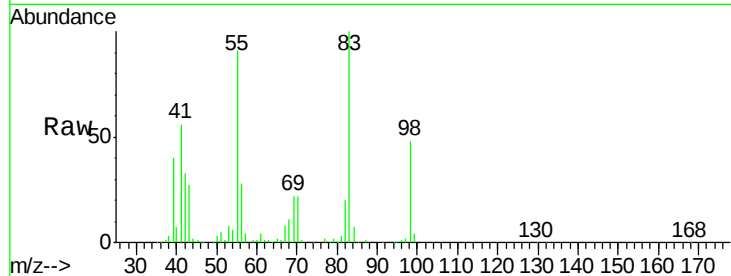
#39
Methvlcvclohexane
Concen: 47.227 ug/l
RT: 5.47 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	90.8	66.4	99.6	
98	48.4	39.1	58.7	

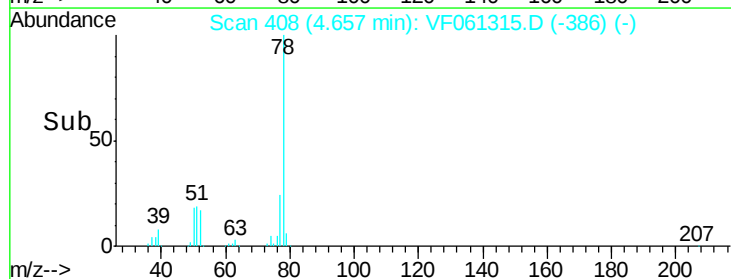
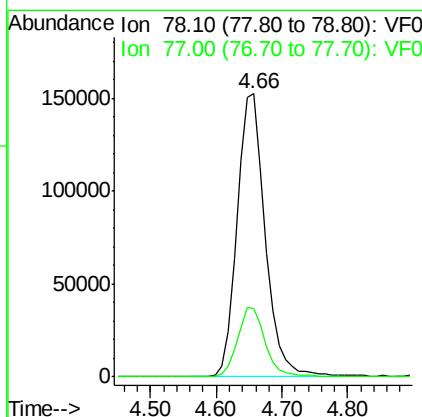
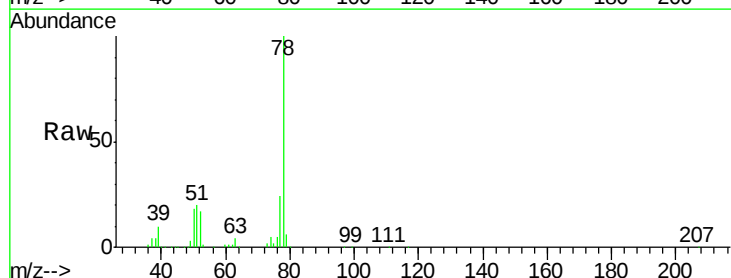
Manual Integrations
APPROVED

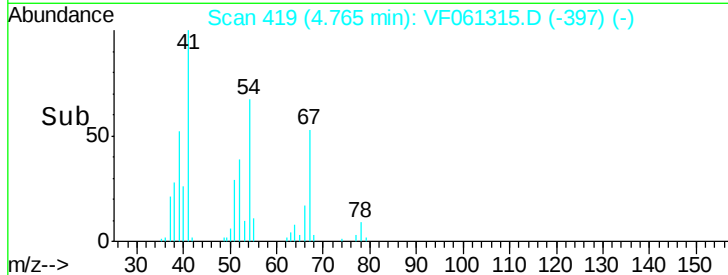
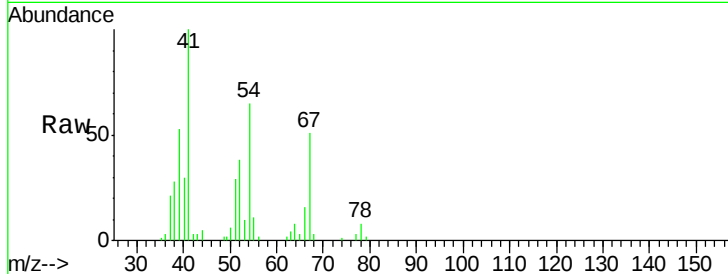
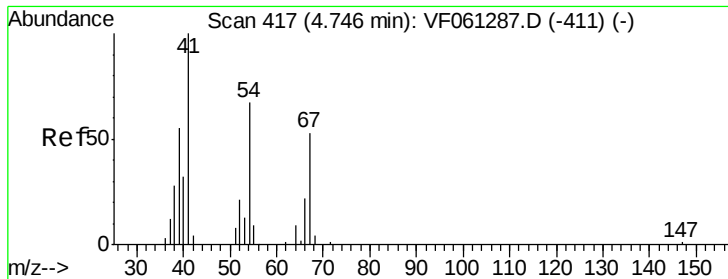
MMDadoda
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#40
Benzene
Concen: 51.811 ug/l
RT: 4.66 min Scan# 408
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.0	19.1	28.7	





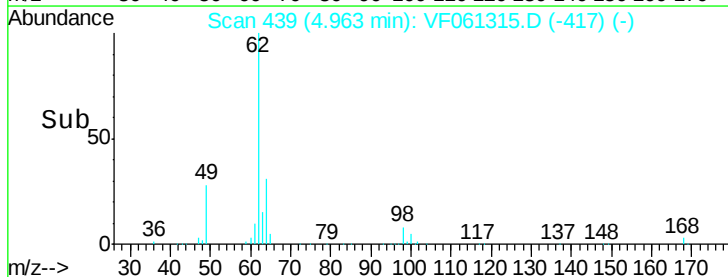
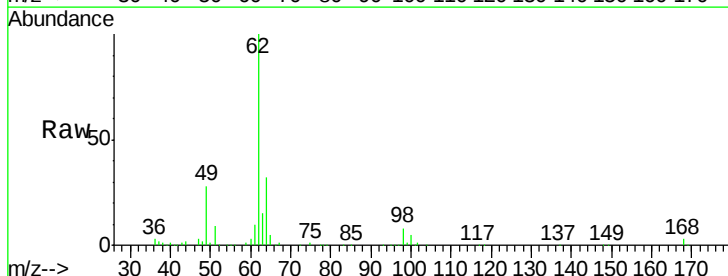
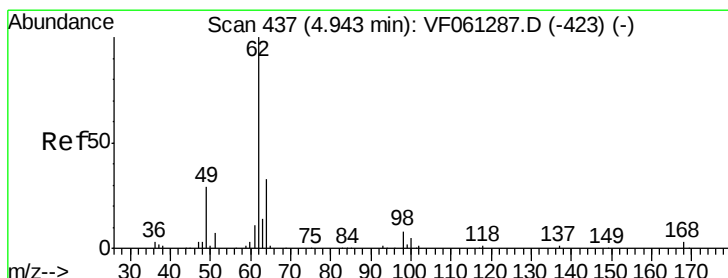
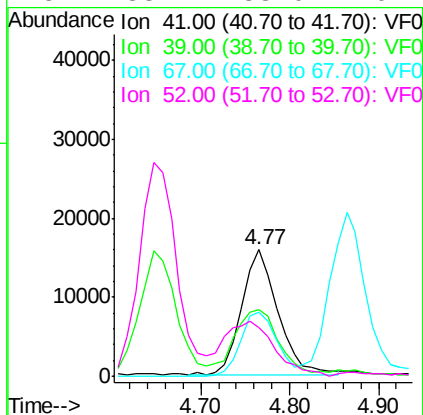
#41
Methacrylonitrile
Concen: 57.996 ug/l
RT: 4.77 min Scan# 419
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tot Ion	Ion	Ratio	Lower	Upper
44692	41	100		
	39	52.5	52.7	79.1#
	67	51.0	41.4	62.2
	52	38.2	33.0	49.4

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

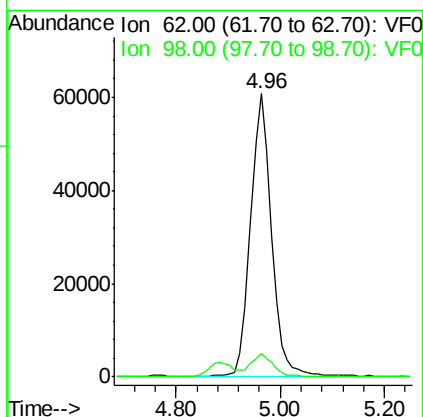
Manual Integrations
APPROVED

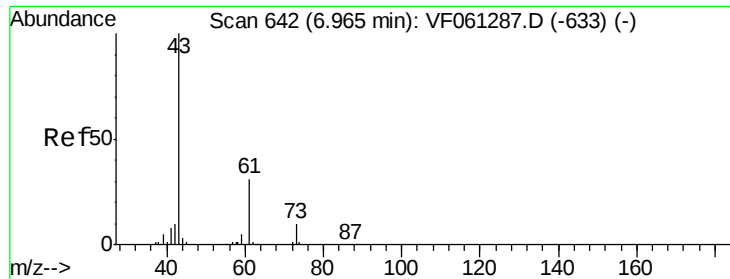
MMDadoda
1/10/2019 3:31:52 PM



#42
1,2-Dichloroethane
Concen: 60.273 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ion	Ratio	Lower	Upper
166012	62	100		
	98	8.2	0.0	16.8





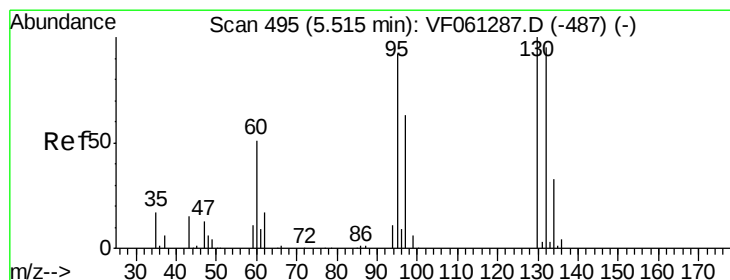
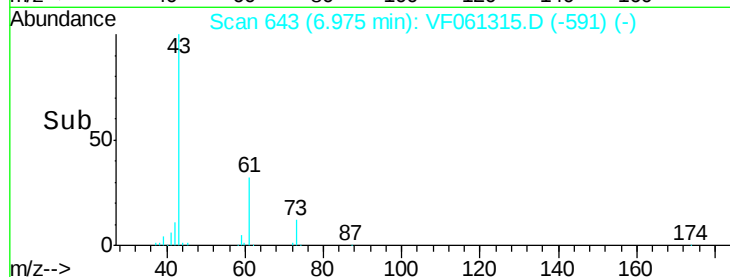
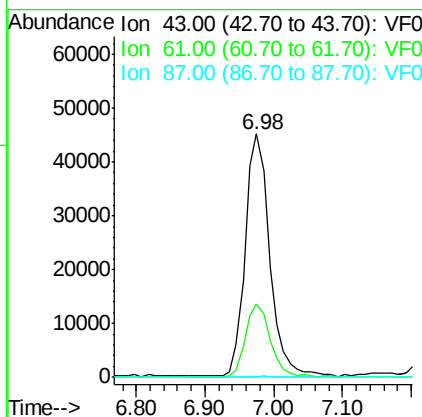
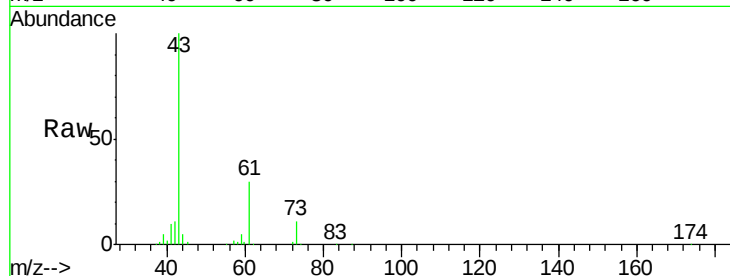
#43
Isopropyl Acetate
Concen: 61.009 ug/l
RT: 6.98 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.1	24.3	36.5
87	0.3	0.2	0.4

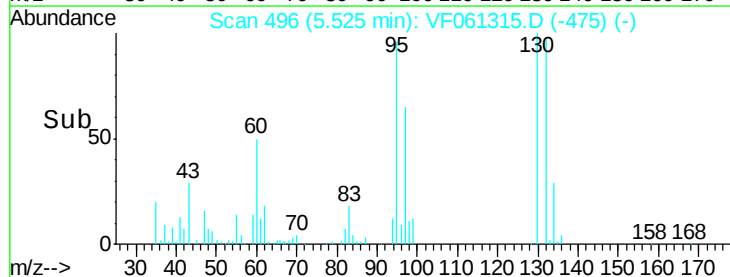
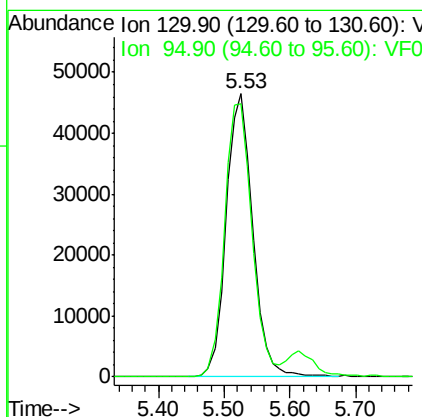
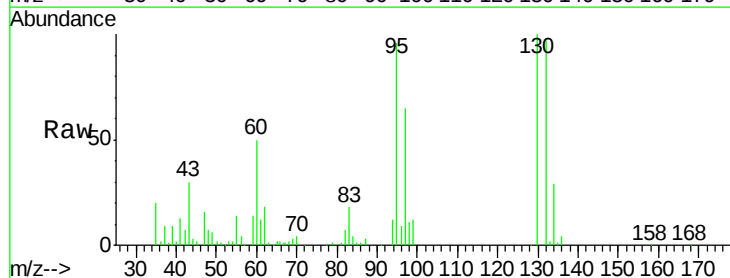
Manual Integrations
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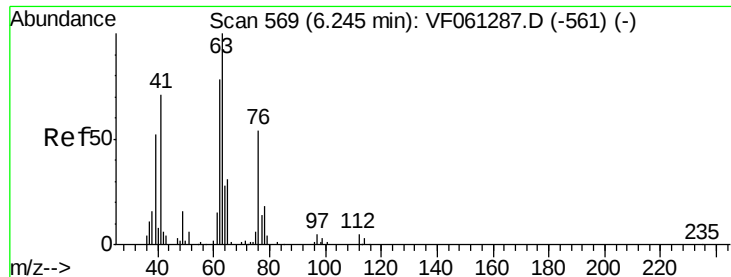
MMDadoda
1/10/2019 3:31:52 PM



#44
Trichloroethene
Concen: 50.958 ug/l
RT: 5.53 min Scan# 496
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	184.4





#45

1,2-Dichloropropane

Concen: 55.769 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 125466

Ion Ratio Lower Upper

63 100

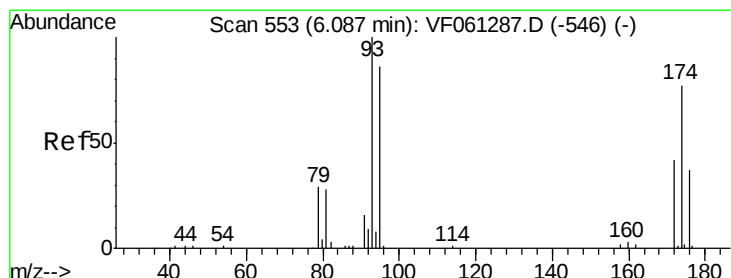
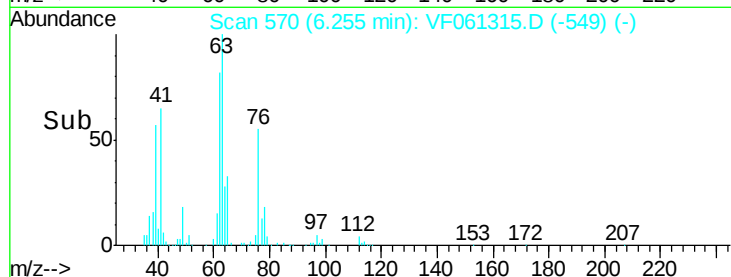
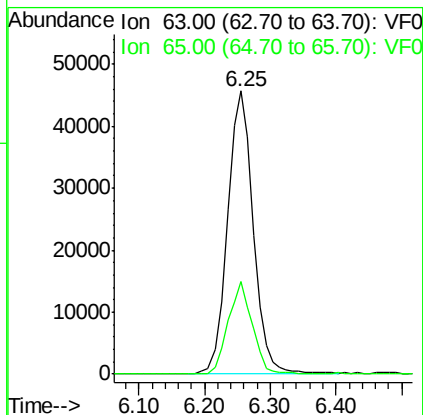
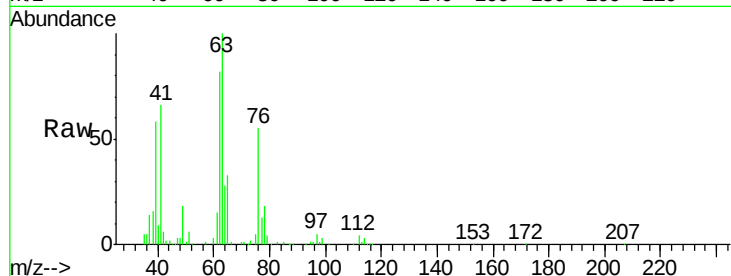
65 32.5 25.1 37.7

Manual Integrations

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#46

Dibromomethane

Concen: 59.073 ug/l

RT: 6.11 min Scan# 555

Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

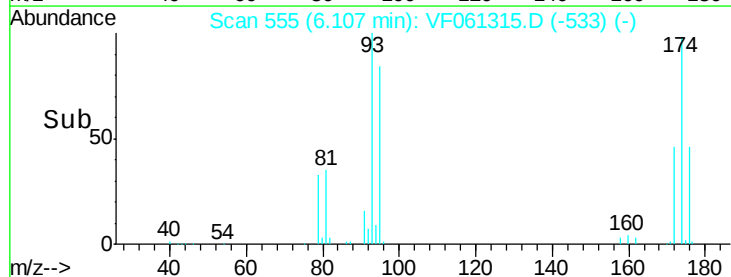
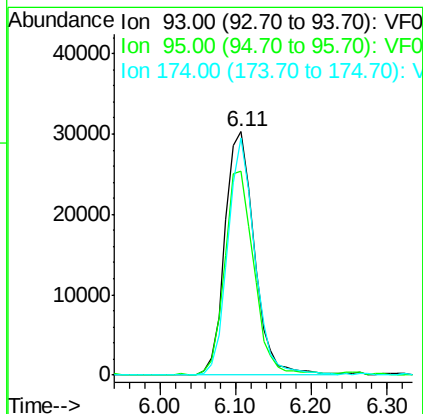
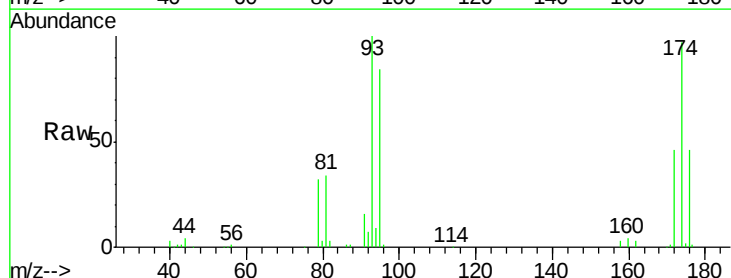
Tgt Ion: 93 Resp: 81598

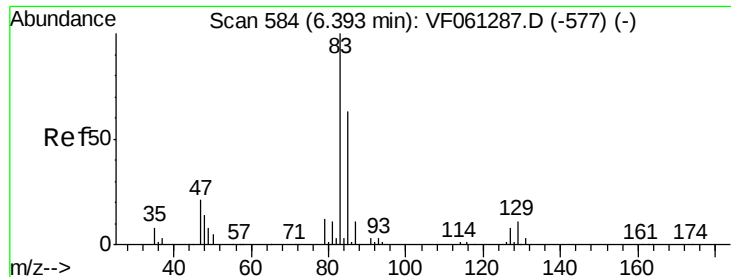
Ion Ratio Lower Upper

93 100

95 83.9 68.8 103.2

174 97.3 62.9 94.3#





#47

Bromodichloromethane

Concen: 59.016 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

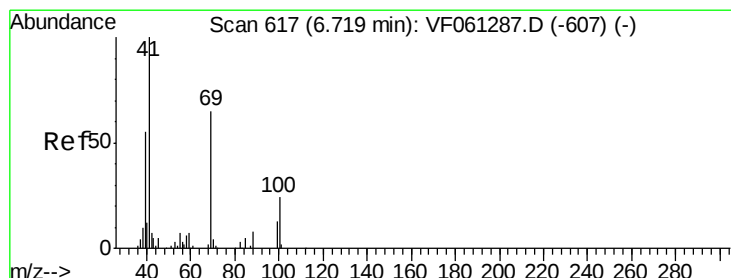
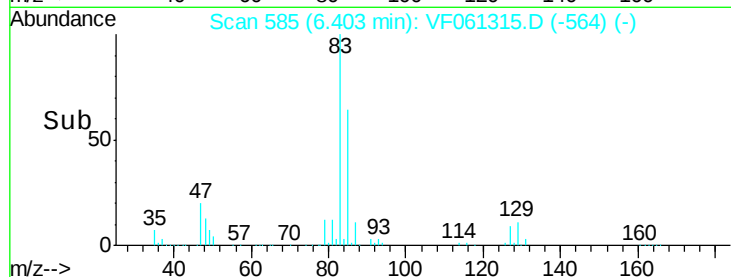
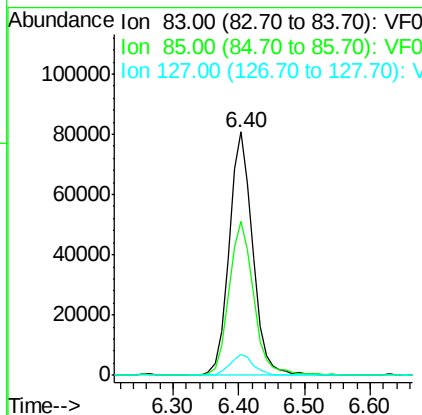
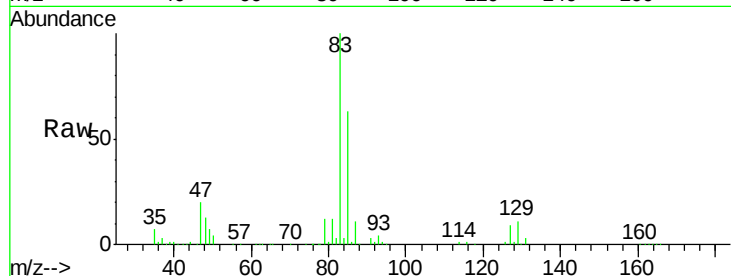
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	202740
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.4	75.6
127	8.6	6.4	9.6

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#48

Methyl methacrylate

Concen: 63.362 ug/l

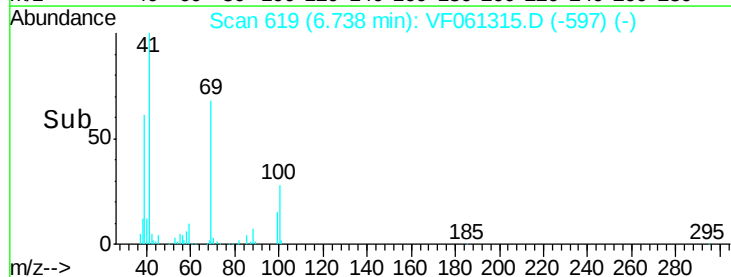
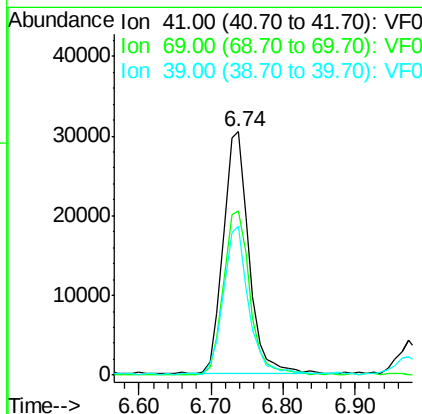
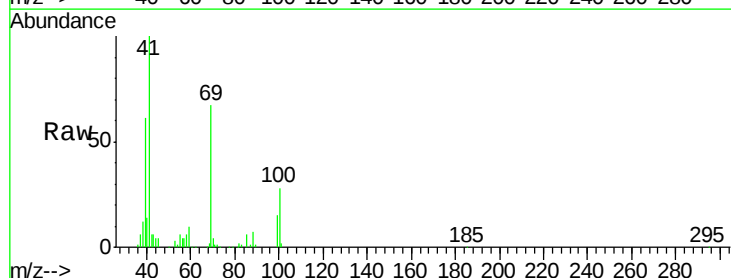
RT: 6.74 min Scan# 619

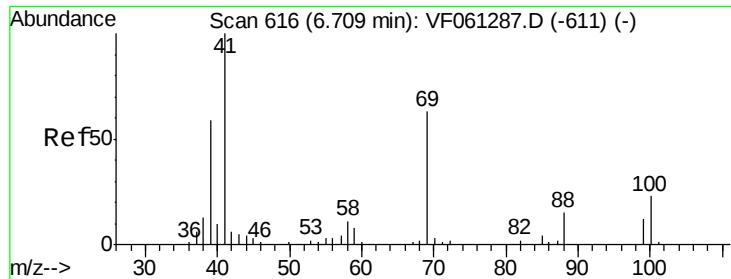
Delta R.T. 0.02 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	41	Resp:	74929
Ion	Ratio	Lower	Upper
41	100		
69	67.4	51.5	77.3
39	61.0	44.1	66.1





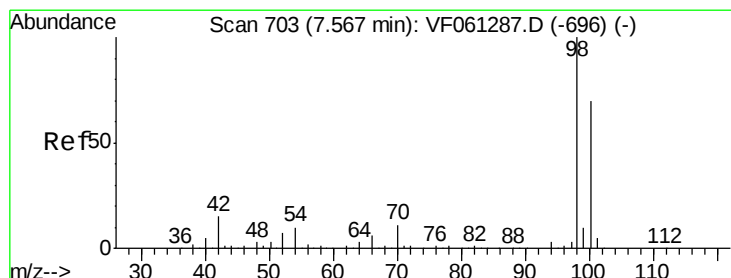
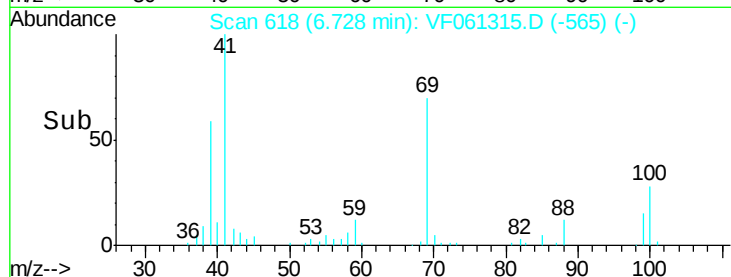
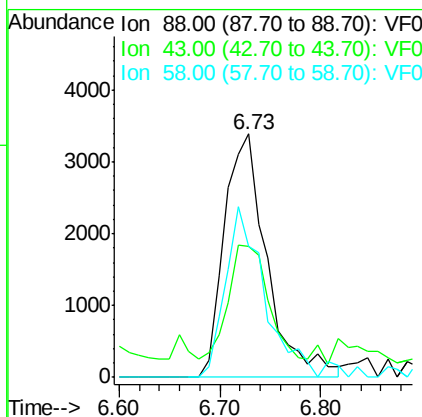
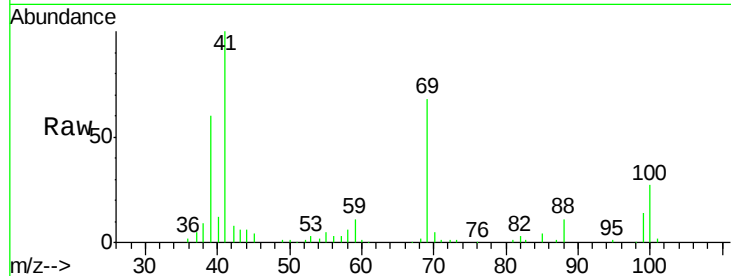
#49
1,4-Dioxane
Concen: 1336.422 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	53.6	38.5	57.7
58	53.8	57.0	85.4

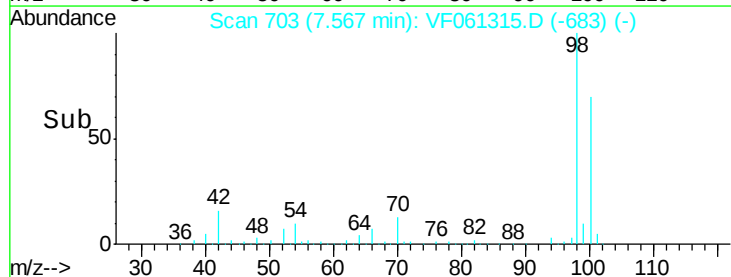
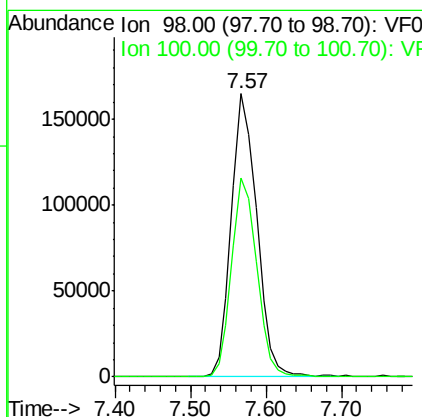
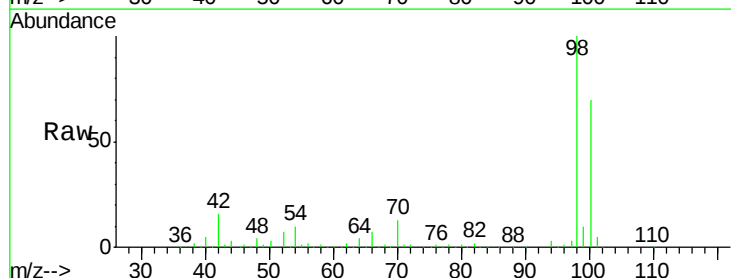
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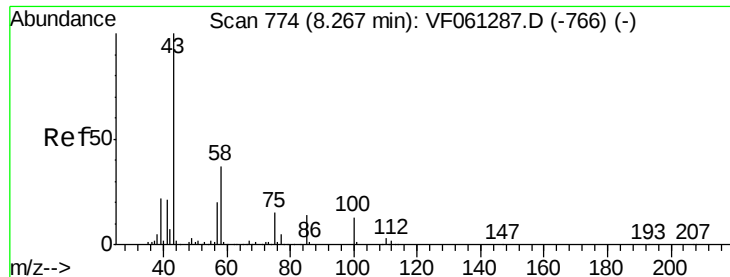
MMDadoda
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#50
Toluene-d8
Concen: 52.551 ug/l
RT: 7.57 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.5	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 294.077 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 404393

Ion Ratio Lower Upper

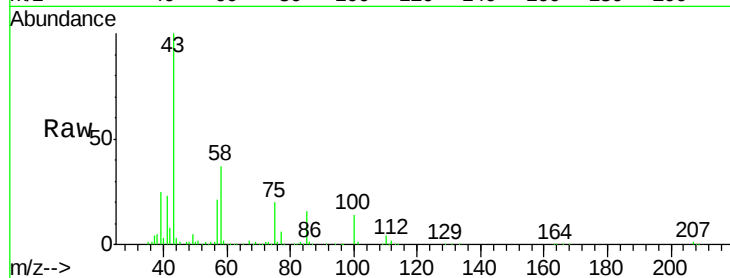
43 100

58 37.4 29.6 44.4

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

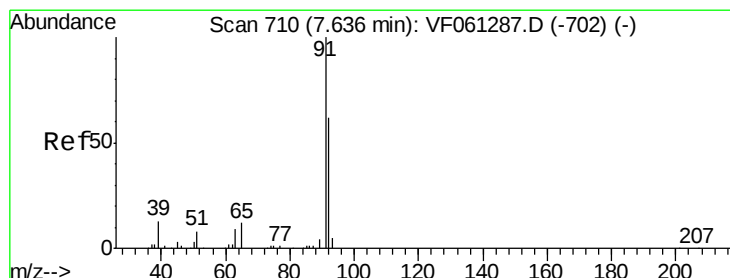
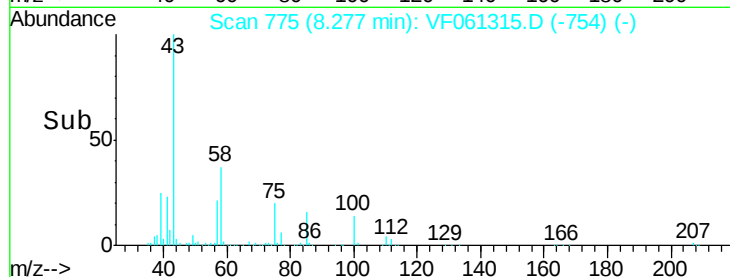
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 51.751 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061315.D

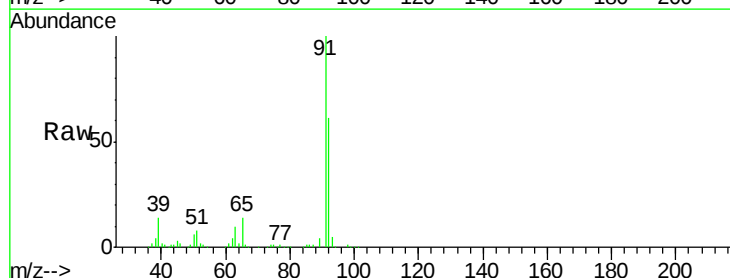
Acq: 9 Jan 2019 23:22

Tgt Ion: 92 Resp: 294273

Ion Ratio Lower Upper

92 100

91 164.0 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.64

200000

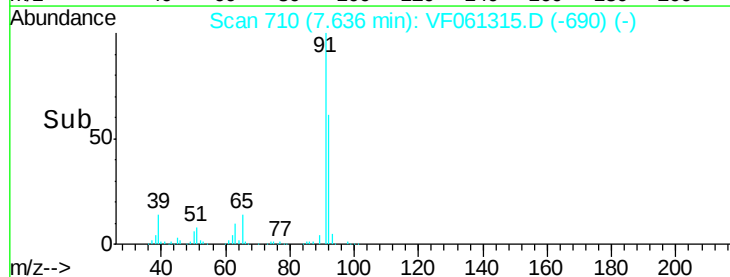
150000

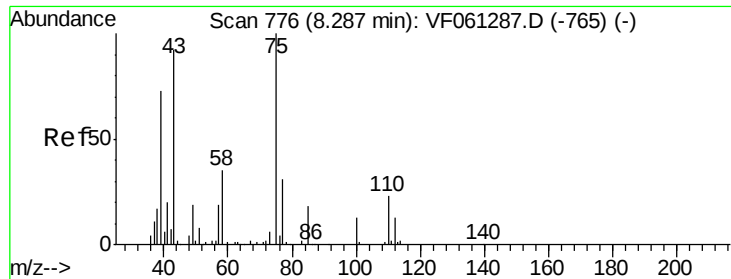
100000

50000

0

Time--> 7.50 7.60 7.70 7.80





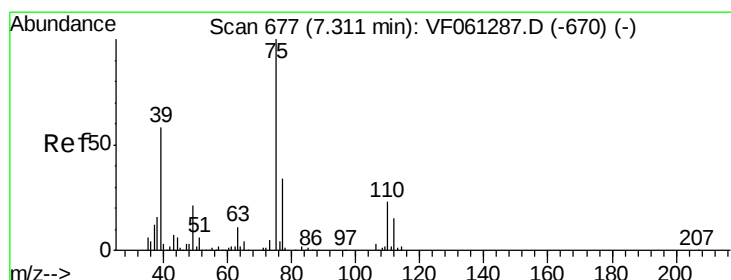
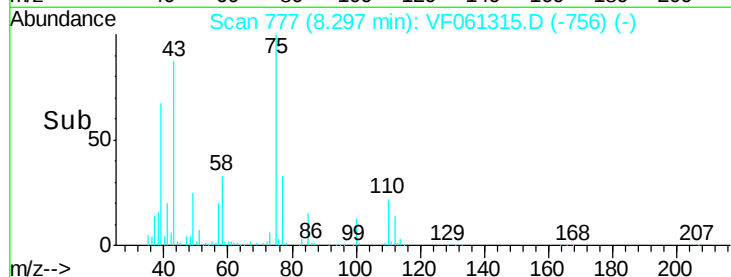
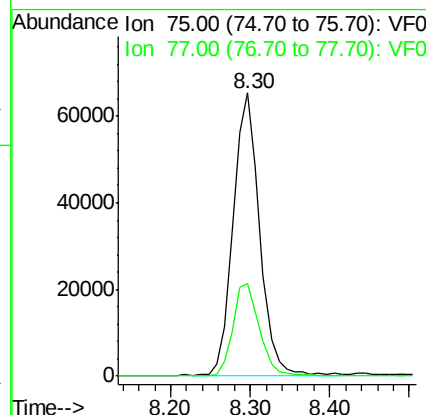
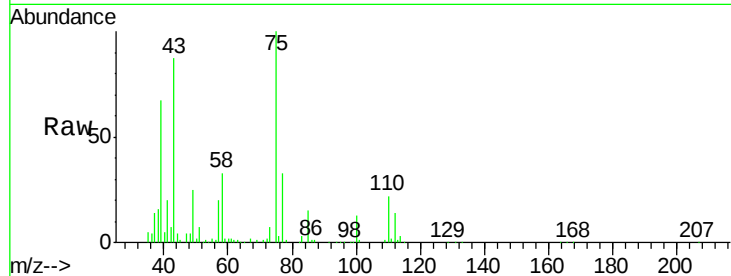
#53
t-1,3-Dichloropropene
Concen: 56.016 ug/l
RT: 8.30 min Scan# 777
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 151122
Ion Ratio Lower Upper
75 100
77 32.6 24.7 37.1

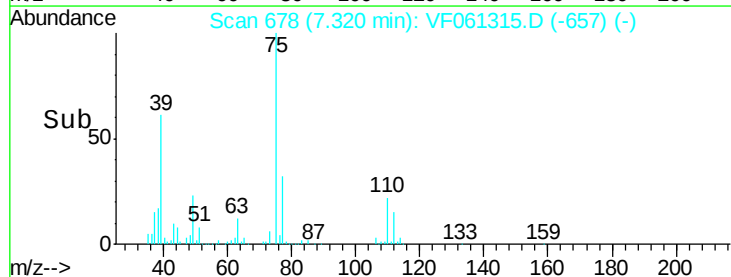
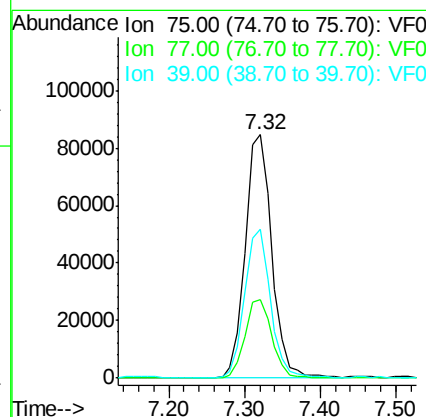
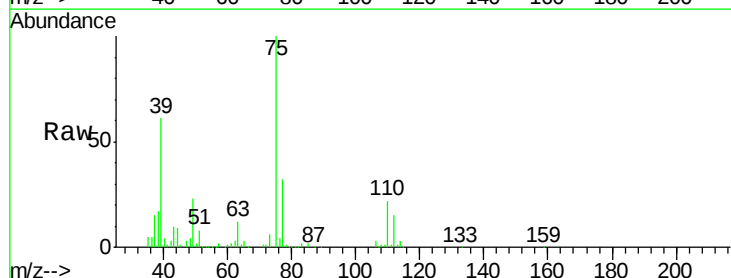
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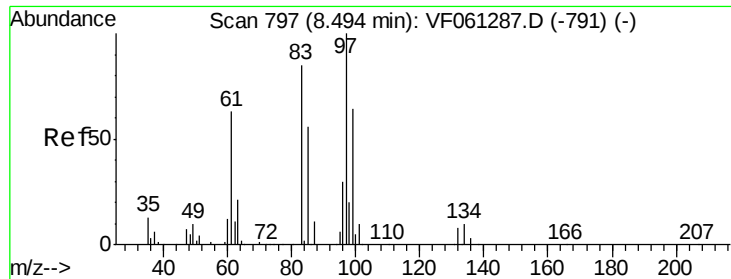
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 57.636 ug/l
RT: 7.32 min Scan# 678
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion: 75 Resp: 206169
Ion Ratio Lower Upper
75 100
77 32.5 27.3 40.9
39 61.2 46.3 69.5





#55

1,1,2-Trichloroethane

Concen: 58.523 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

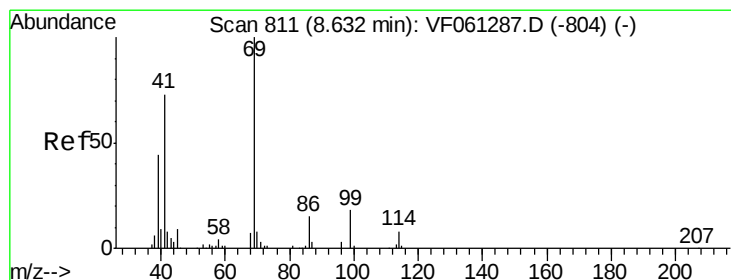
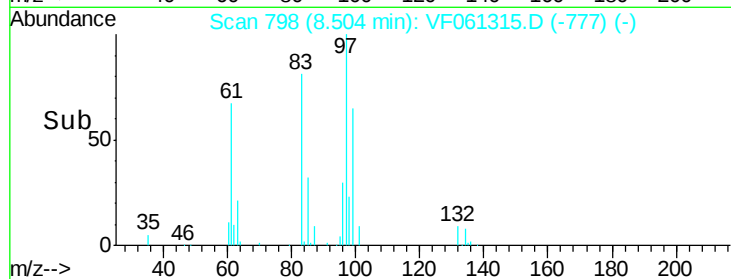
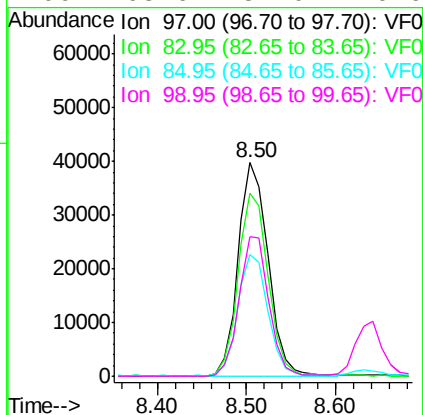
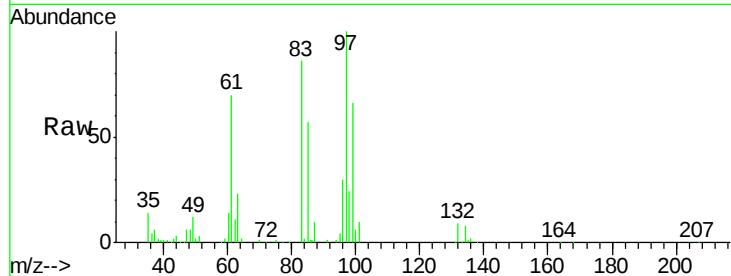
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	93122
Ion	Ratio	Lower	Upper
97	100		
83	85.6	67.8	101.6
85	56.8	45.1	67.7
99	65.6	51.0	76.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 62.631 ug/l

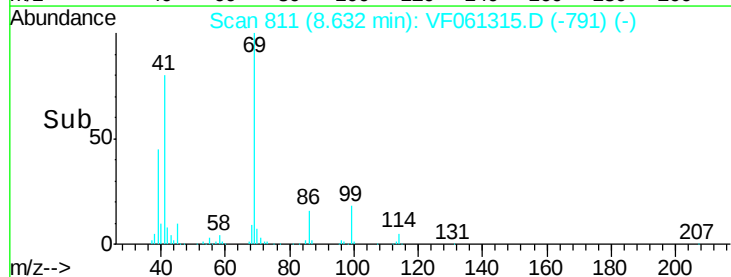
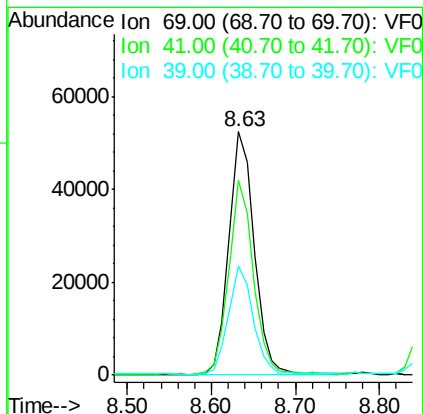
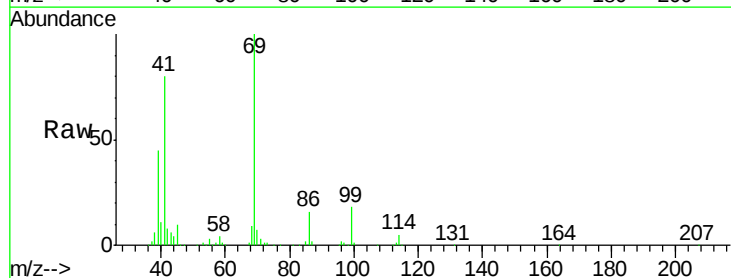
RT: 8.63 min Scan# 811

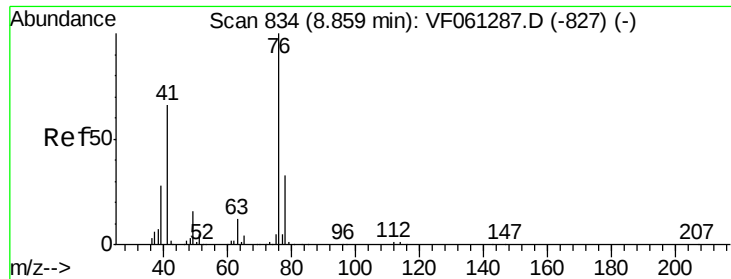
Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	69	Resp:	111382
Ion	Ratio	Lower	Upper
69	100		
41	79.9	59.0	88.4
39	44.9	35.3	52.9





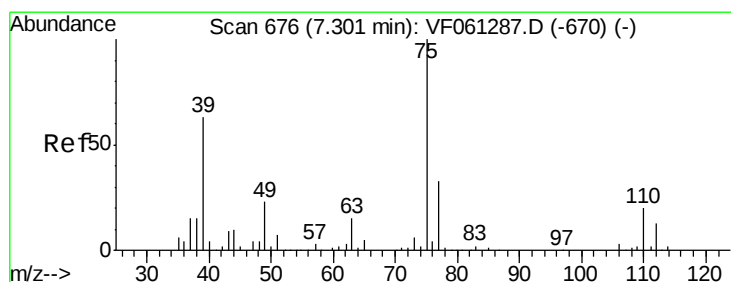
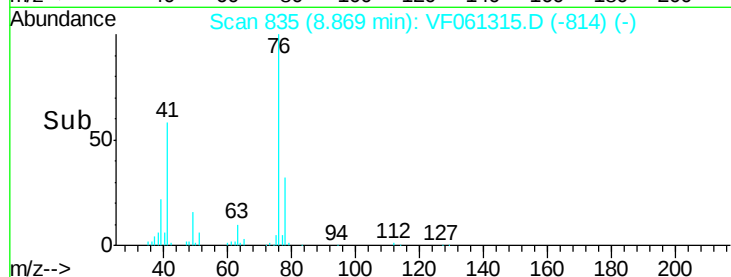
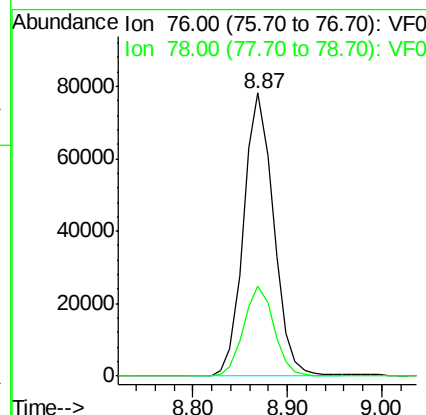
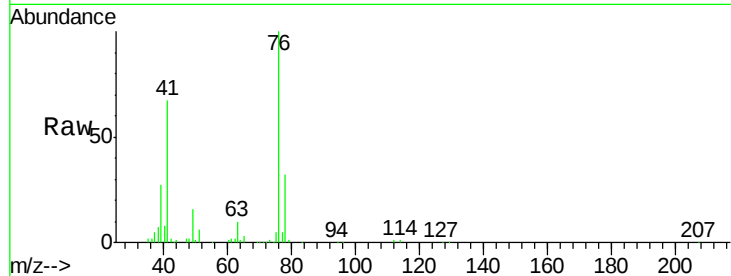
#57
 1,3-Dichloropropane
 Concen: 61.325 ug/l
 RT: 8.87 min Scan# 835
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 172694
 Ion Ratio Lower Upper
 76 100
 78 31.9 26.8 40.2

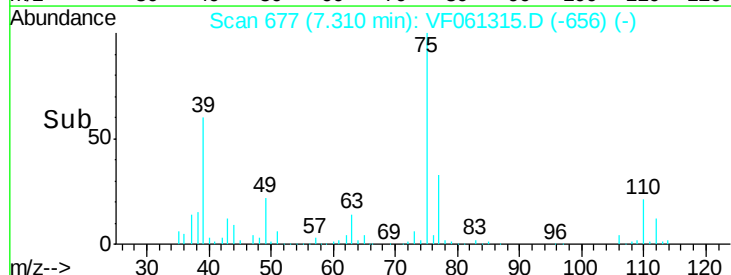
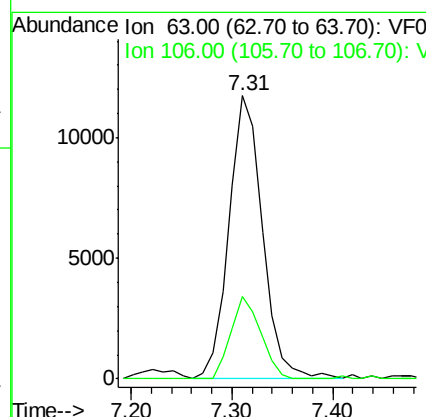
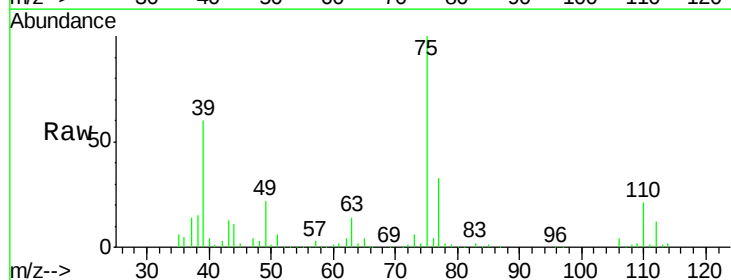
Manual Integrations
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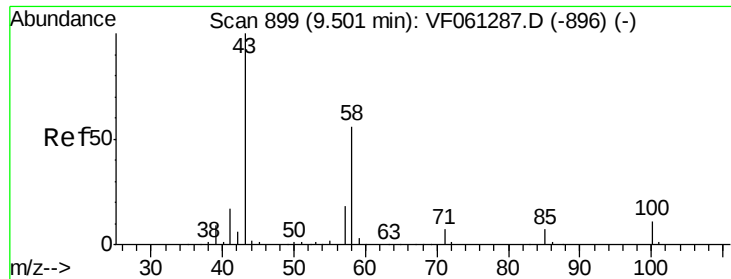
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#58
 2-Chloroethyl Vinyl ether
 Concen: 359.169 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Tgt Ion: 63 Resp: 27220
 Ion Ratio Lower Upper
 63 100
 106 29.2 16.5 24.7#





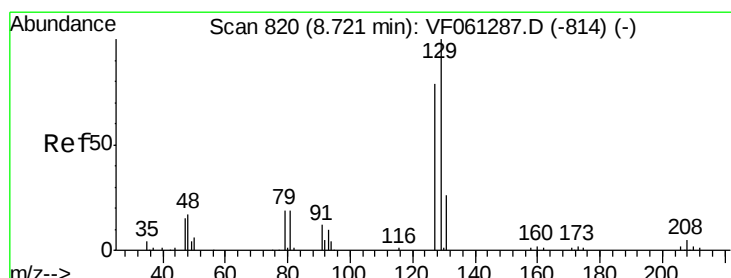
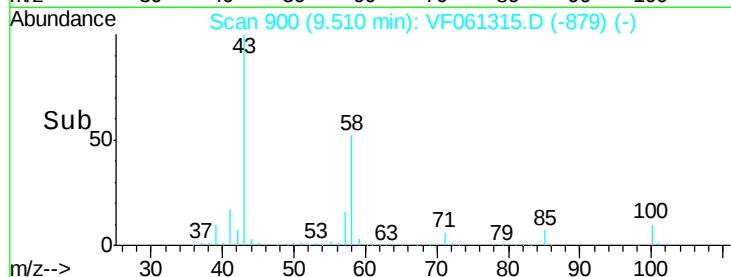
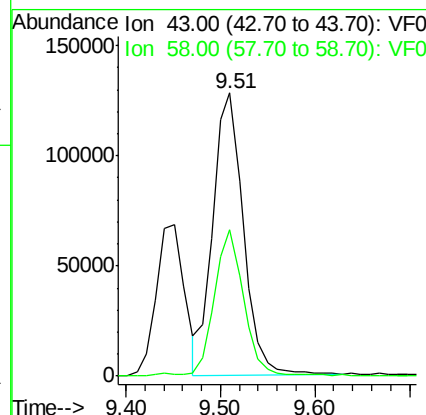
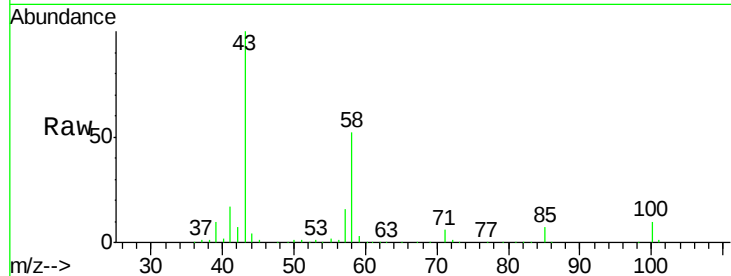
#59
2-Hexanone
Concen: 294.165 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 286578
Ion Ratio Lower Upper
43 100
58 51.6 25.6 76.8

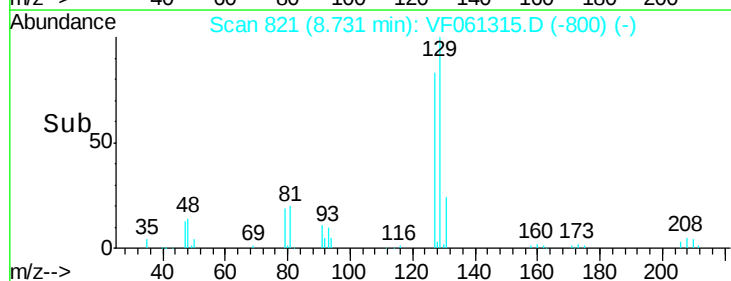
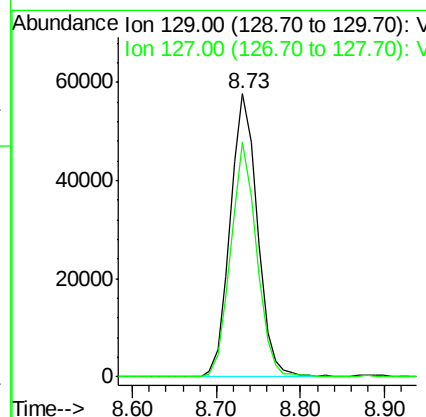
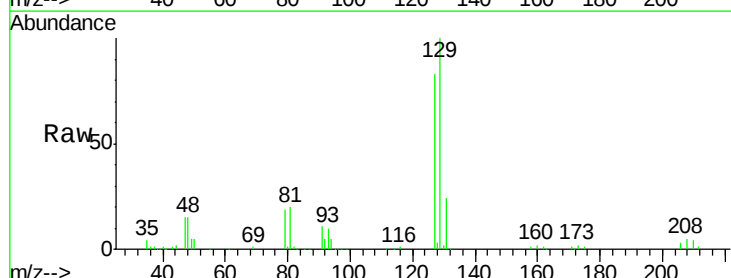
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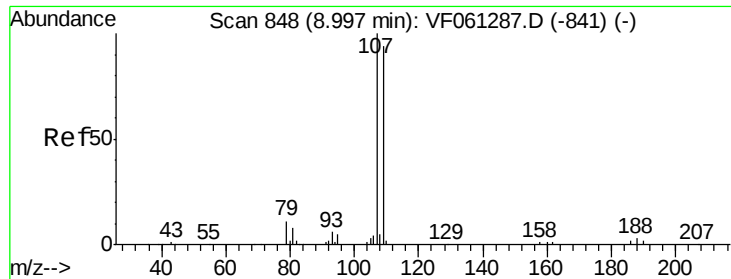
MMDadoda
1/10/2019 3:31:52 PM



#60
Dibromochloromethane
Concen: 61.421 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion: 129 Resp: 130141
Ion Ratio Lower Upper
129 100
127 83.2 39.4 118.1





#61

1,2-Dibromoethane

Concen: 60.496 ug/l

RT: 9.01 min Scan# 849

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 98125

Ion Ratio Lower Upper

107 100

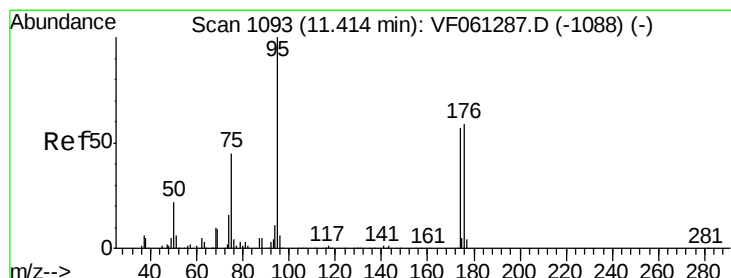
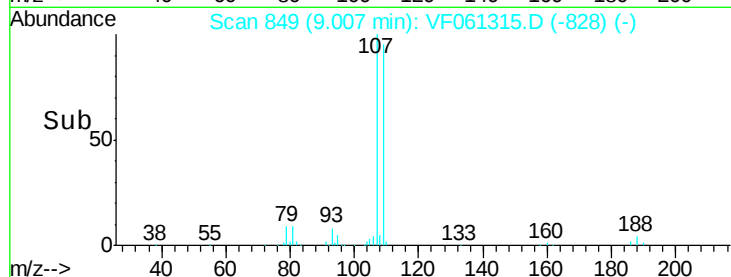
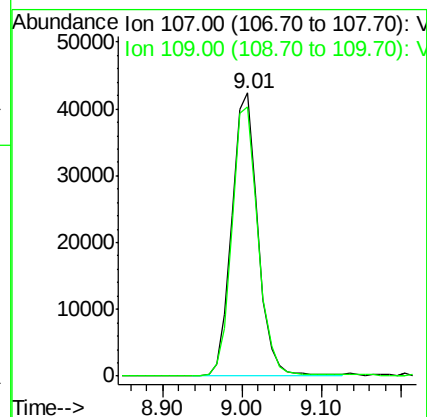
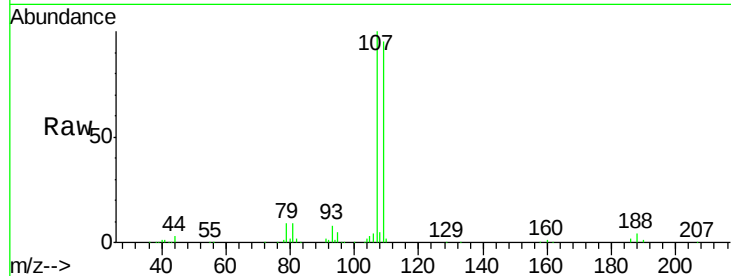
109 95.2 75.1 112.7

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 52.112 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

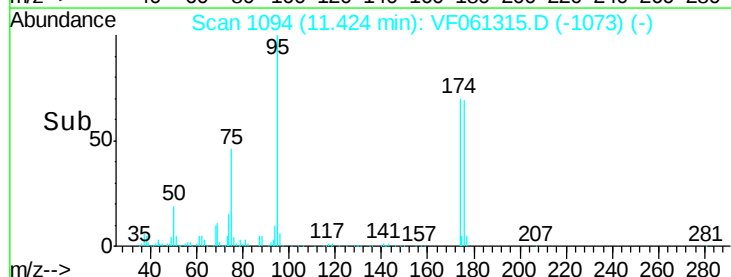
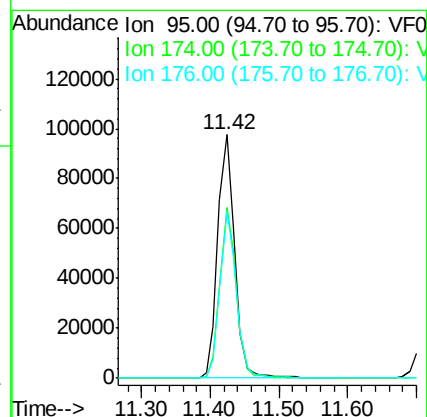
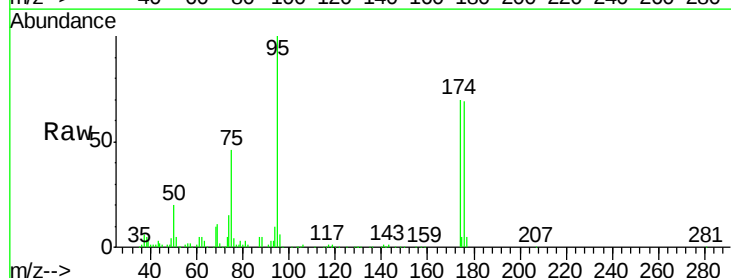
Tgt Ion: 95 Resp: 167199

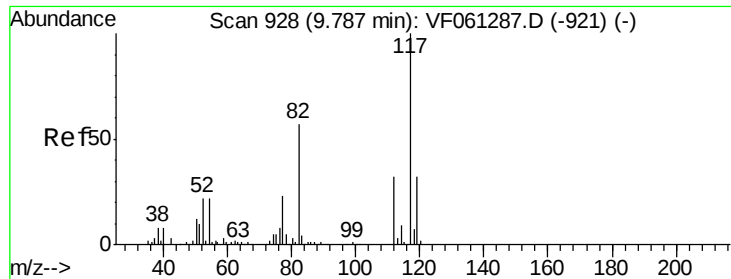
Ion Ratio Lower Upper

95 100

174 70.1 0.0 114.2

176 68.7 0.0 117.8





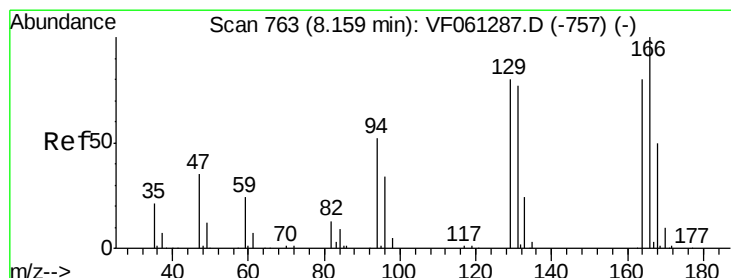
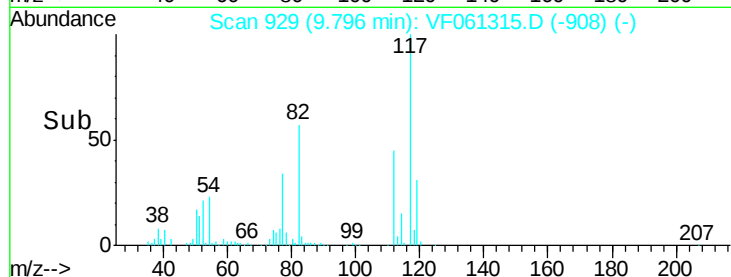
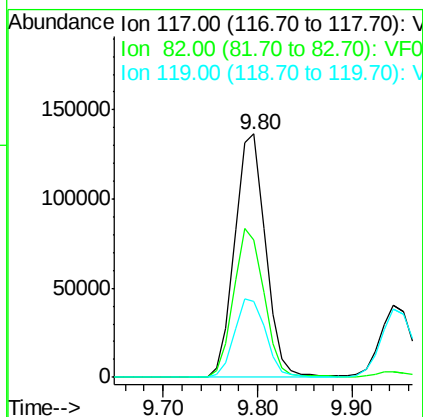
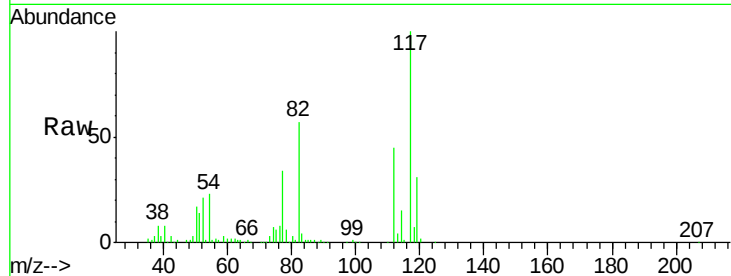
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	309868		
82	56.6		45.3	67.9
119	31.3		25.4	38.0

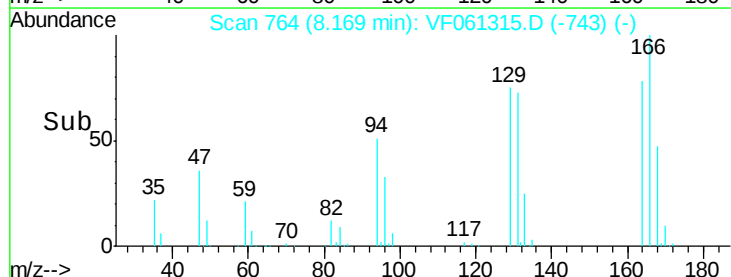
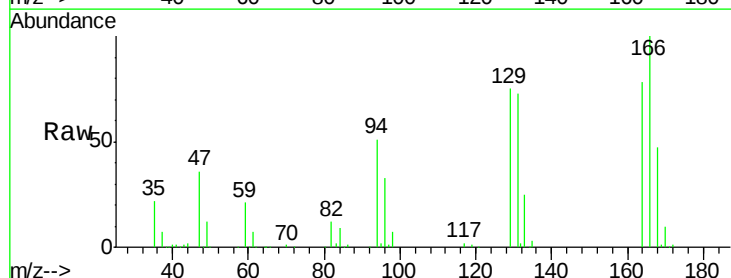
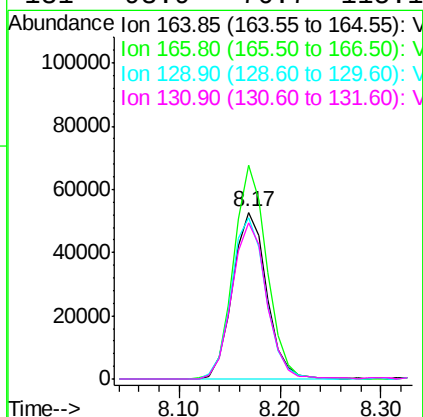
Manual Integrations
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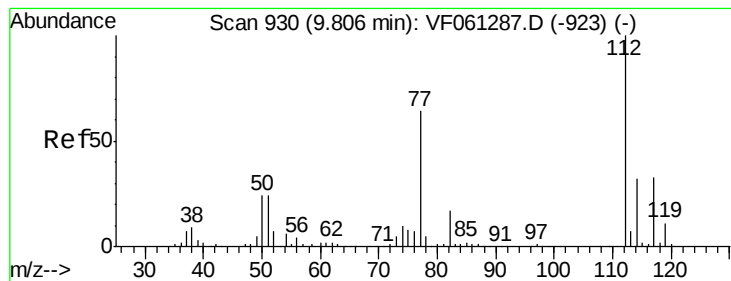
MMDadoda
1/10/2019 3:31:52 PM



#64
Tetrachloroethene
Concen: 54.831 ug/l
RT: 8.17 min Scan# 764
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	123704		
166	128.0		100.1	150.1
129	96.3		80.1	120.1
131	93.9		76.7	115.1





#65

Chlorobenzene

Concen: 51.518 ug/l

RT: 9.82 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 322366

Ion Ratio Lower Upper

112 100

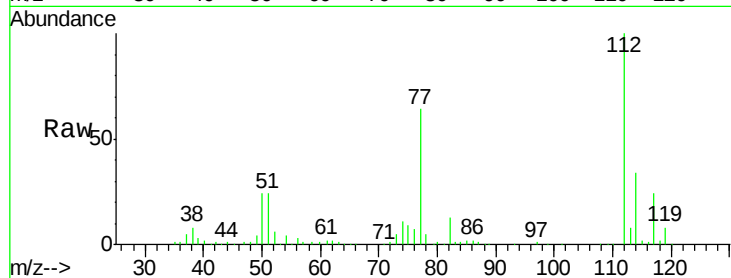
114 34.0 25.8 38.8

Manual Integrations

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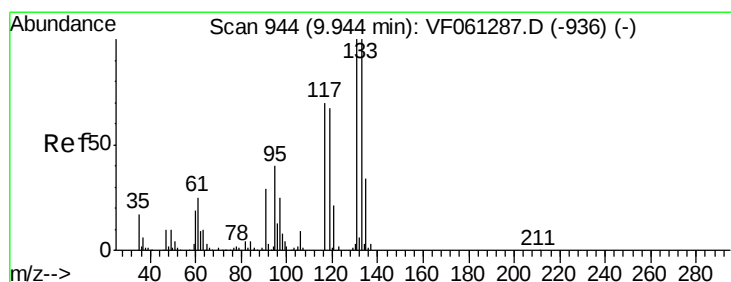
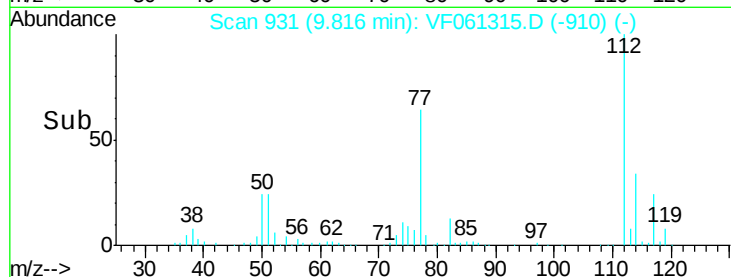
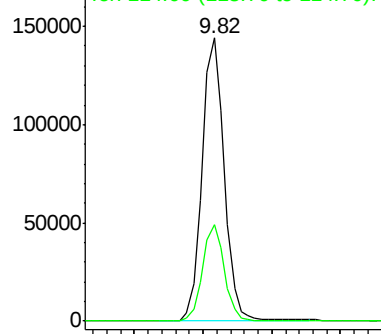
MMDadoda

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 52.776 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

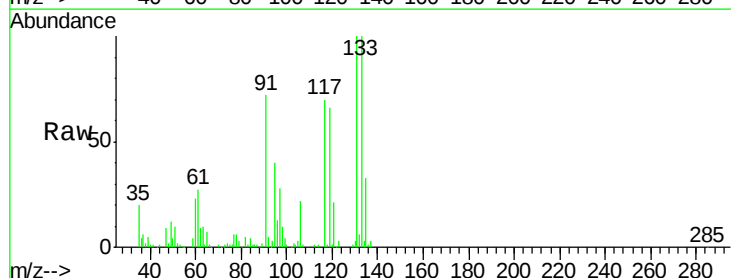
Tgt Ion:131 Resp: 134750

Ion Ratio Lower Upper

131 100

133 99.5 49.9 149.6

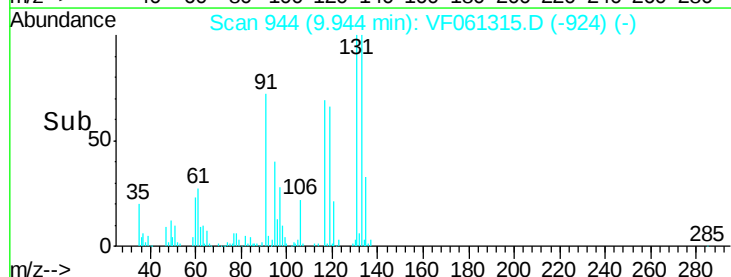
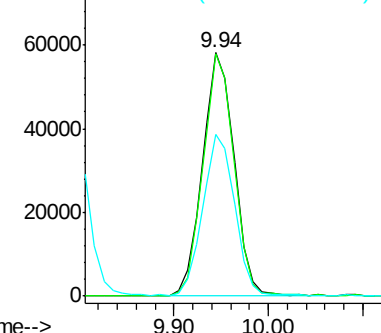
119 66.4 33.9 101.6

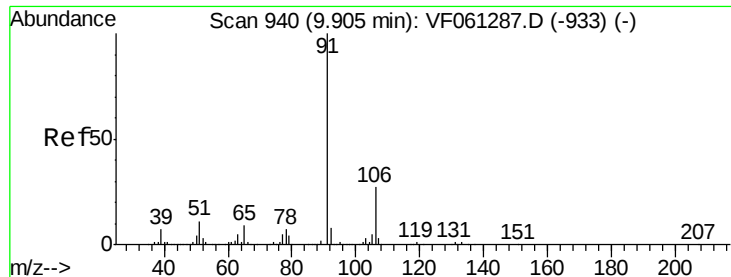


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





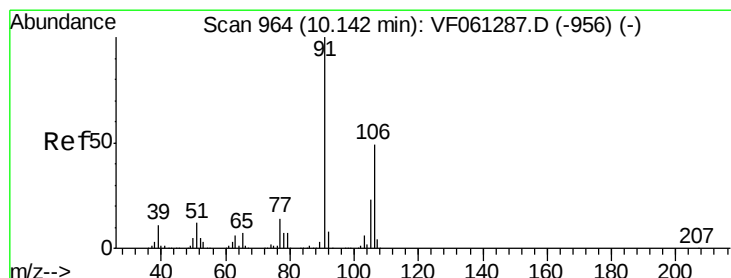
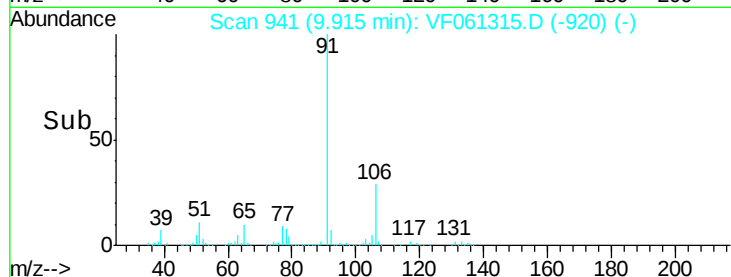
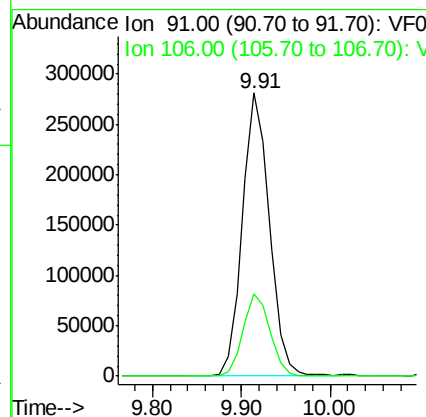
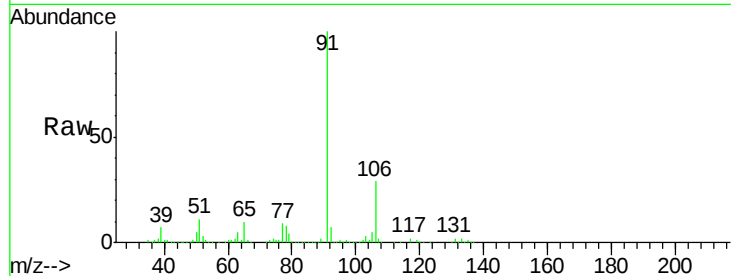
#67
Ethyl Benzene
Concen: 49.217 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 593788
Ion Ratio Lower Upper
91 100
106 29.2 21.4 32.2

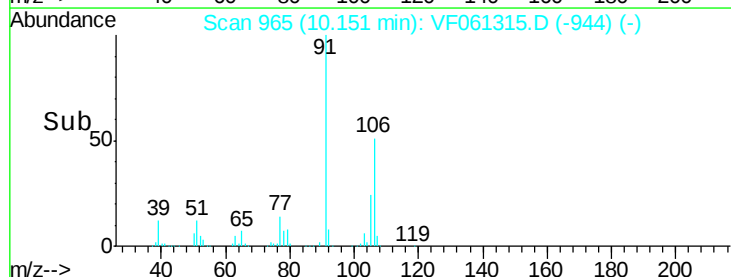
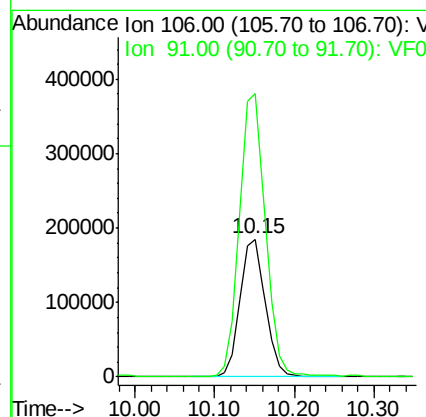
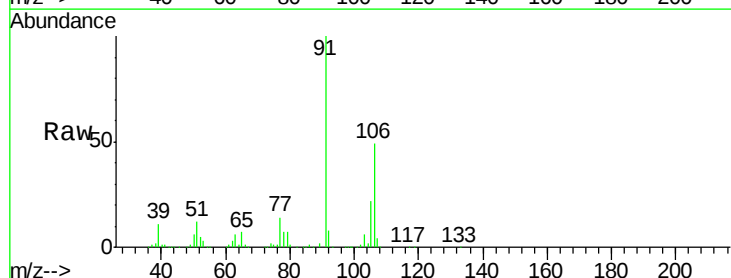
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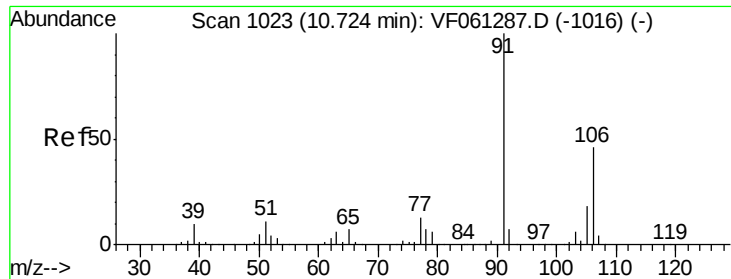
MMDadoda
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#68
m/p-Xylenes
Concen: 98.071 ug/l
RT: 10.15 min Scan# 965
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion: 106 Resp: 412721
Ion Ratio Lower Upper
106 100
91 205.1 165.0 247.6





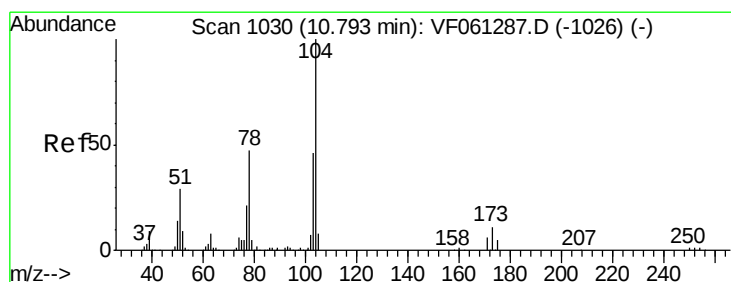
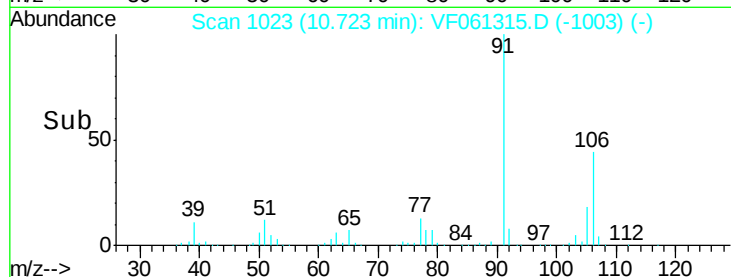
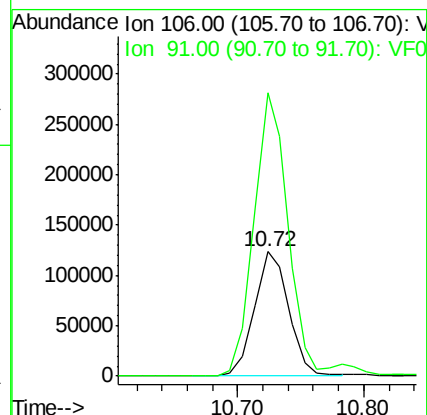
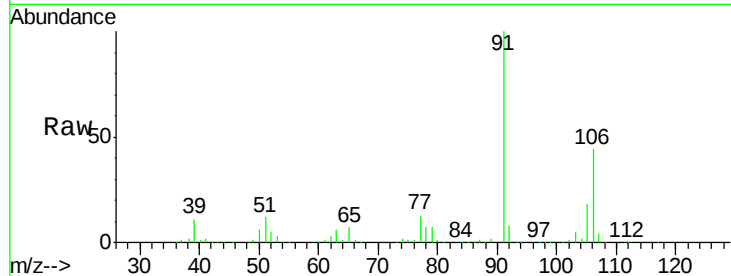
#69
o-Xylene
Concen: 49.798 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 234104
Ion Ratio Lower Upper
106 100
91 227.4 108.1 324.4

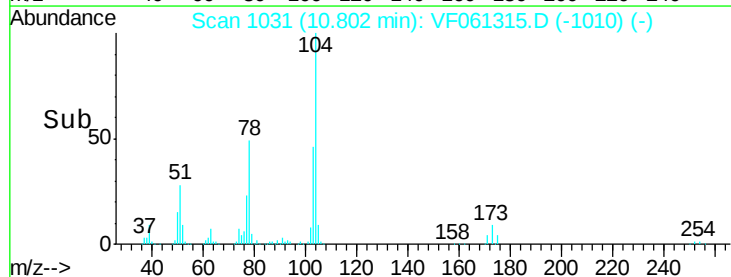
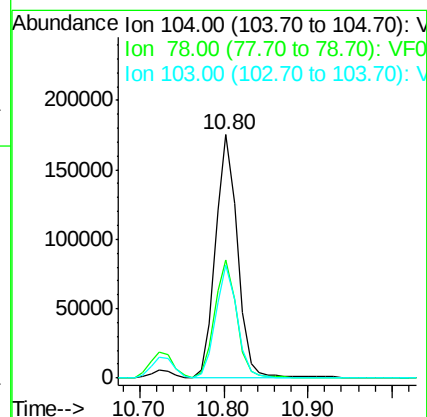
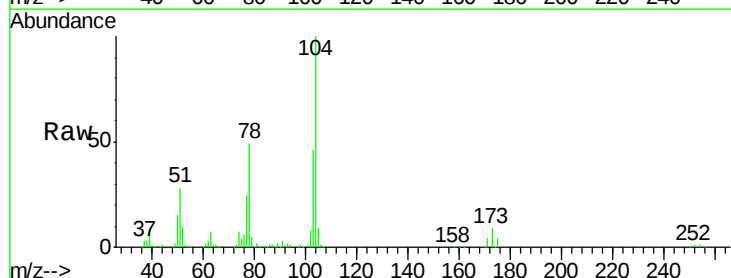
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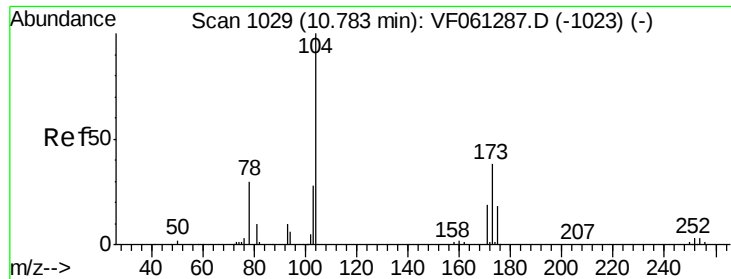
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#70
Styrene
Concen: 50.718 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion:104 Resp: 317628
Ion Ratio Lower Upper
104 100
78 48.6 38.0 57.0
103 46.2 36.7 55.1





#71

Bromoform

Concen: 61.171 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 63829

Ion Ratio Lower Upper

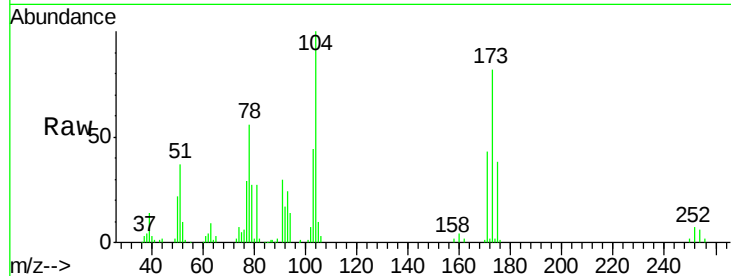
173 100

175 46.3 24.1 72.2

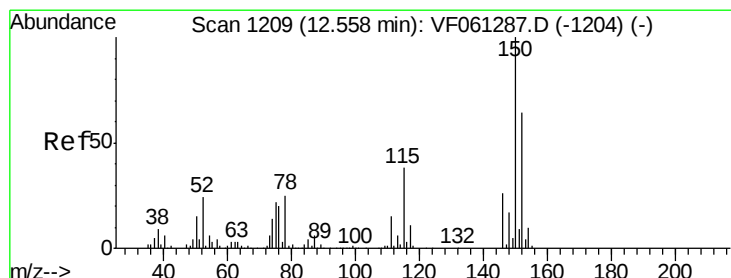
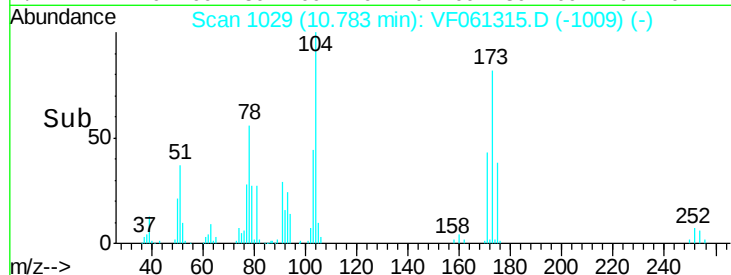
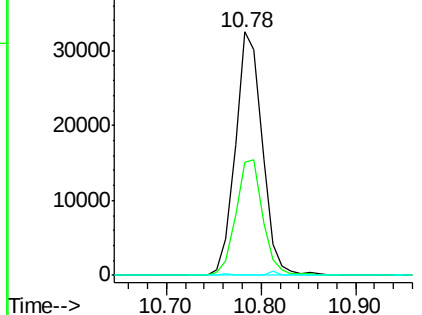
254 0.0 0.0 0.0

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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: VF061315.D

Acq: 9 Jan 2019 23:22

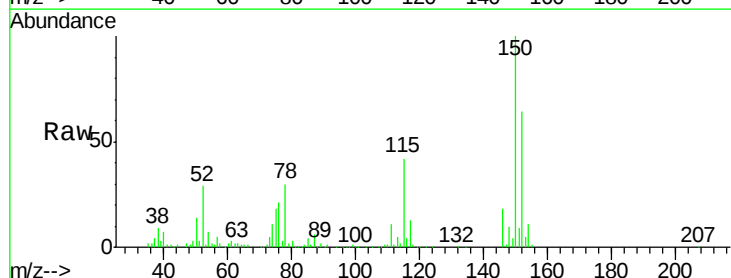
Tgt Ion:152 Resp: 149261

Ion Ratio Lower Upper

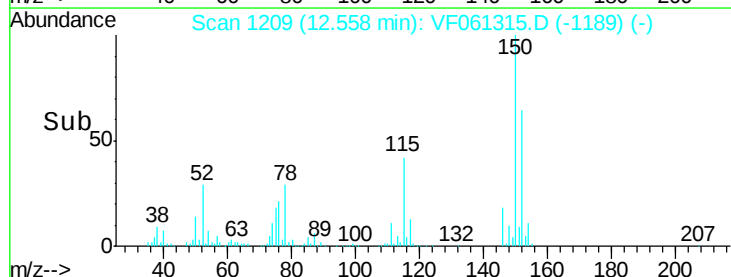
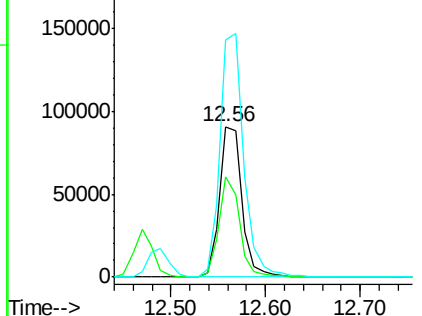
152 100

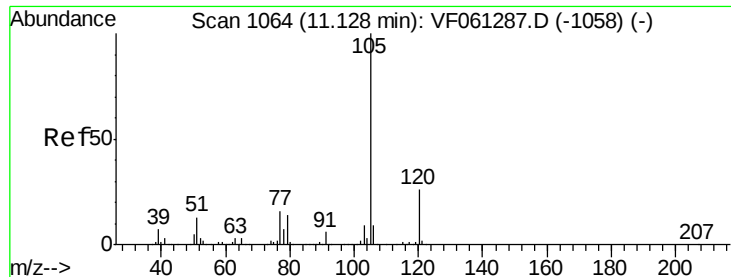
115 66.7 29.6 88.9

150 157.5 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: 51.985 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 682773

Ion Ratio Lower Upper

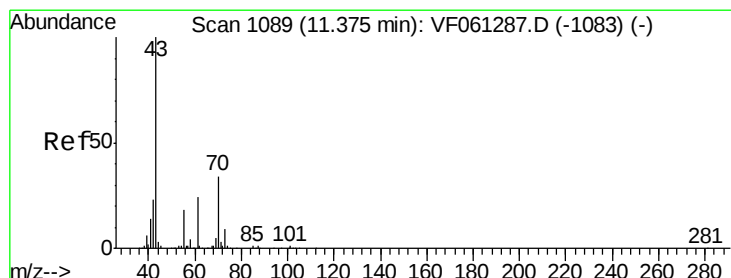
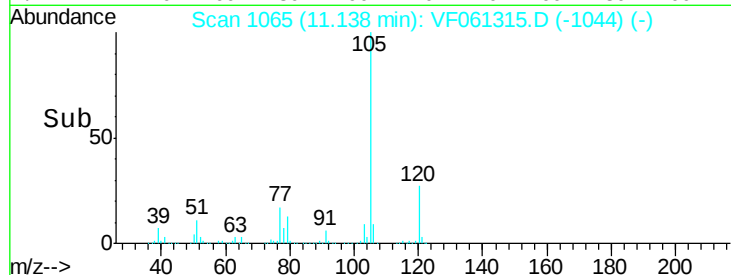
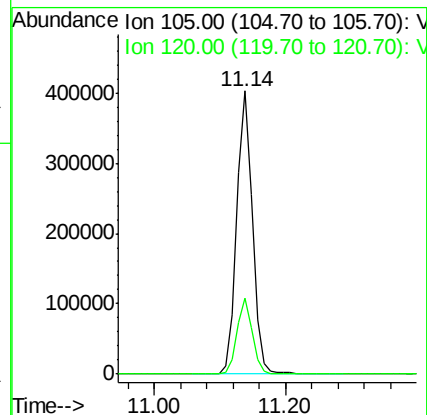
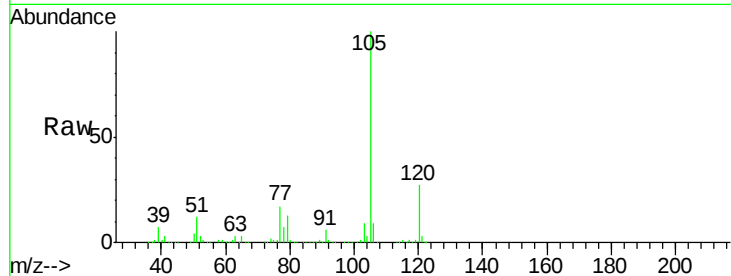
105 100

120 26.8 12.9 38.7

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#74

N-ethyl acetate

Concen: 64.367 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion: 43 Resp: 192177

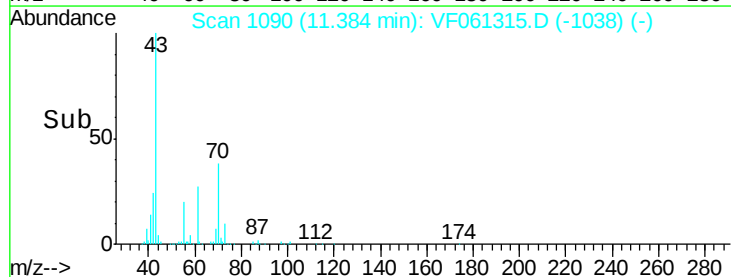
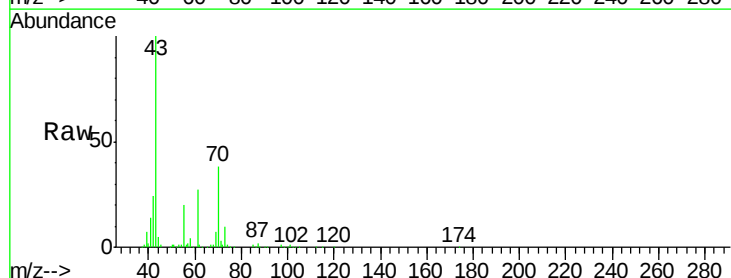
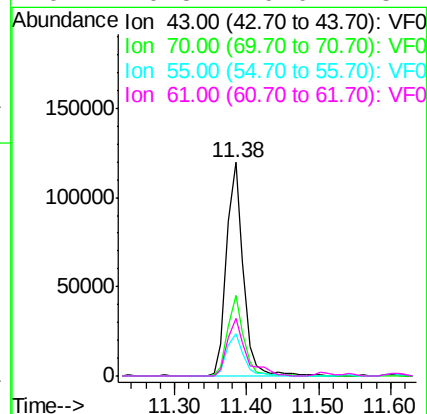
Ion Ratio Lower Upper

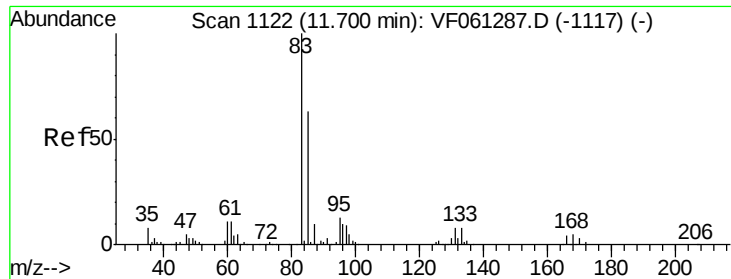
43 100

70 38.0 27.4 41.0

55 19.8 14.7 22.1

61 26.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 61.001 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

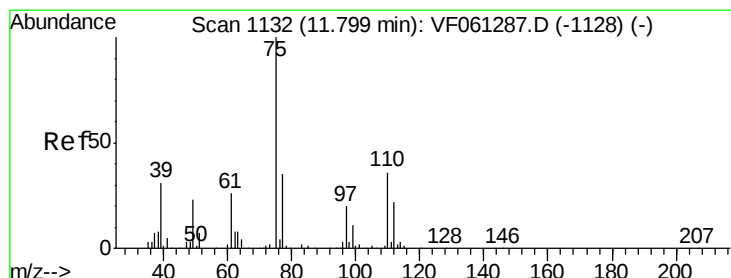
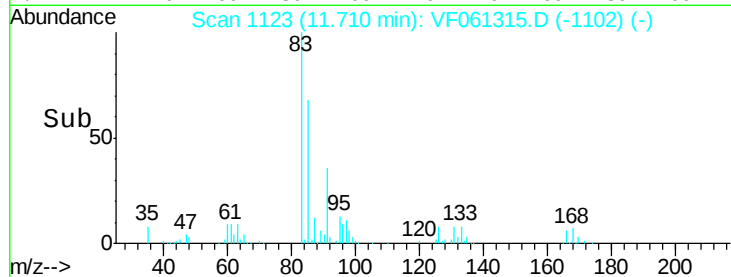
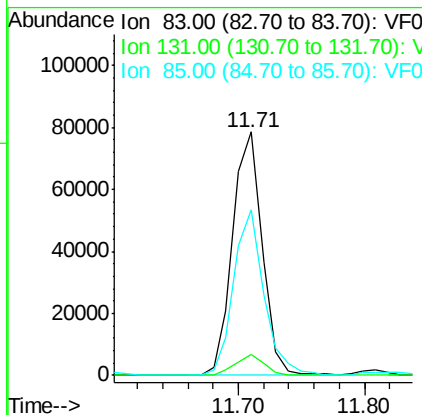
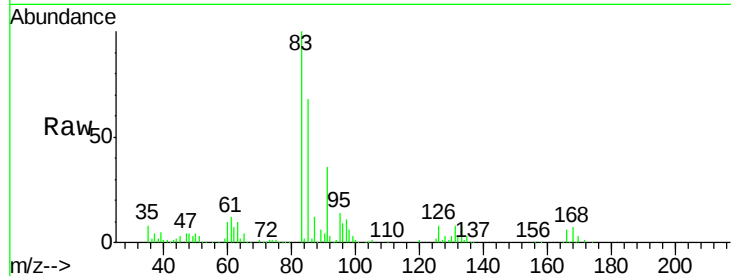
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	127035
Ion Ratio	Lower	Upper	
83	100		
131	8.4	3.9	11.7
85	68.0	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 59.866 ug/l

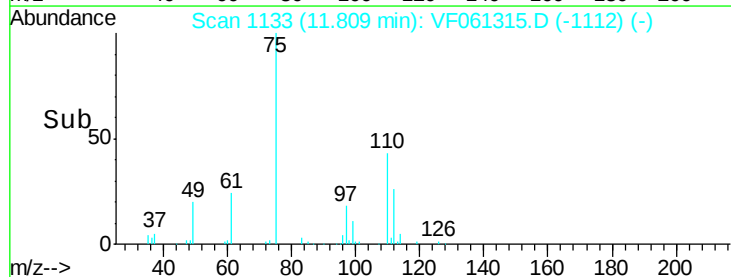
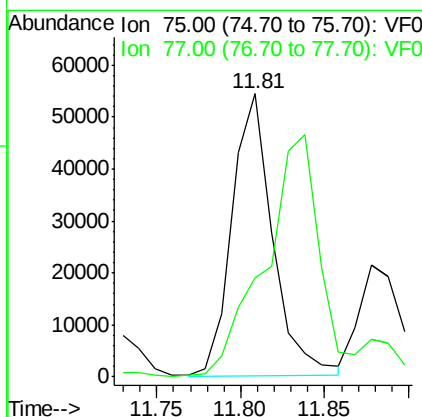
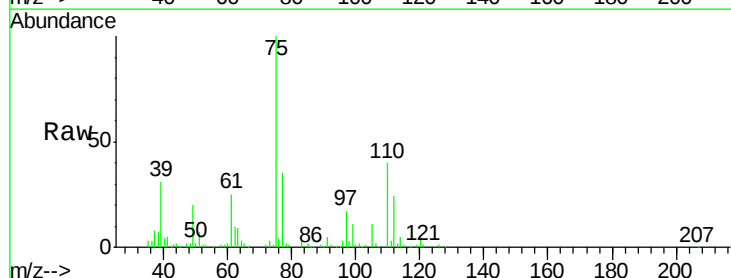
RT: 11.81 min Scan# 1133

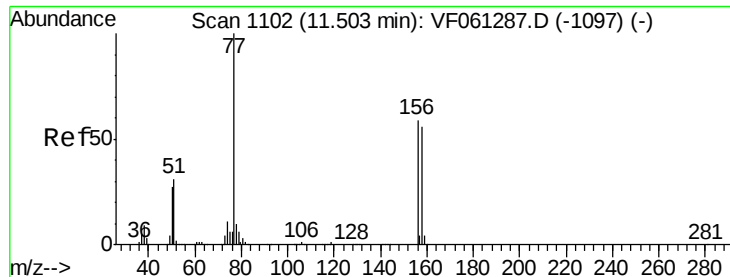
Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	75	Resp:	91438
Ion Ratio	Lower	Upper	
75	100		
77	35.0	17.5	52.5





#77

Bromobenzene

Concen: 55.138 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

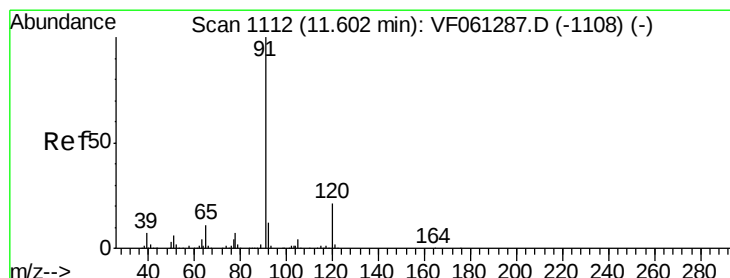
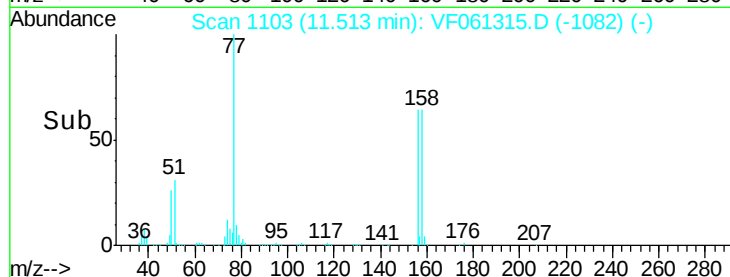
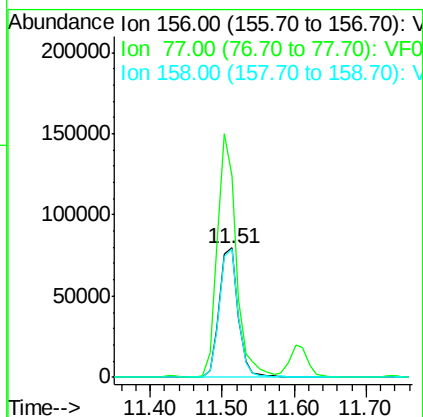
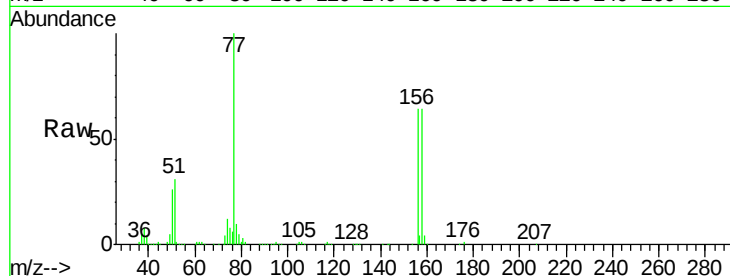
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		144072		
77	155.8	84.3	252.9		
158	99.3	47.1	141.3		

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#78

n-propylbenzene

Concen: 51.466 ug/l

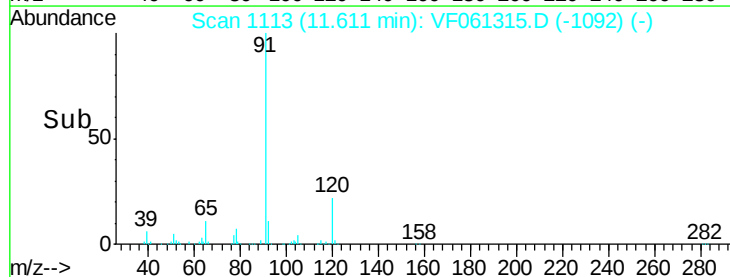
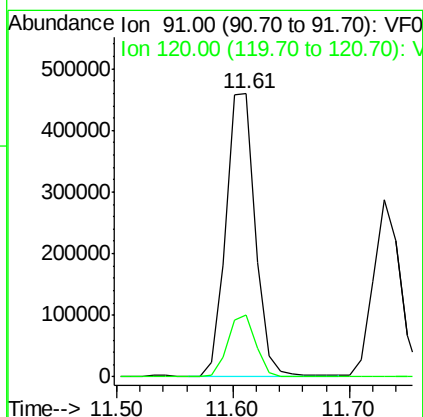
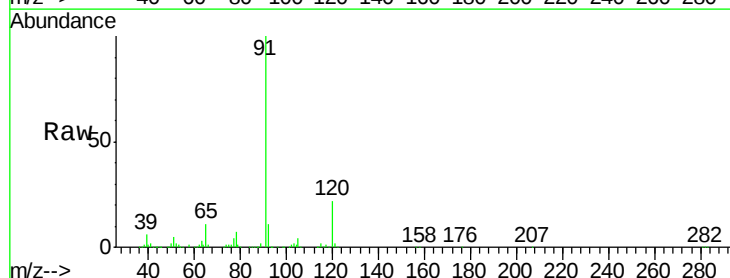
RT: 11.61 min Scan# 1113

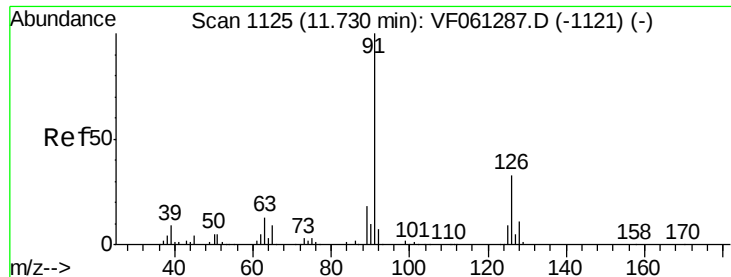
Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		805951		
120	22.1	10.7	32.1		





#79

2-Chlorotoluene

Concen: 52.078 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 454375

Ion Ratio Lower Upper

91 100

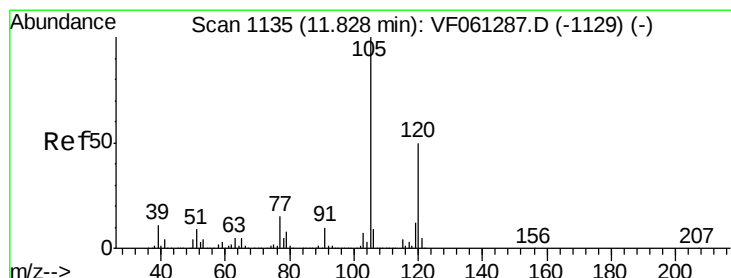
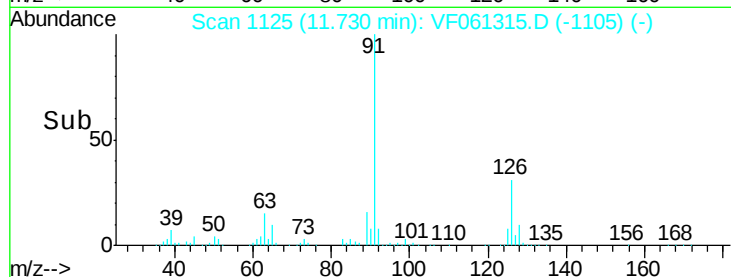
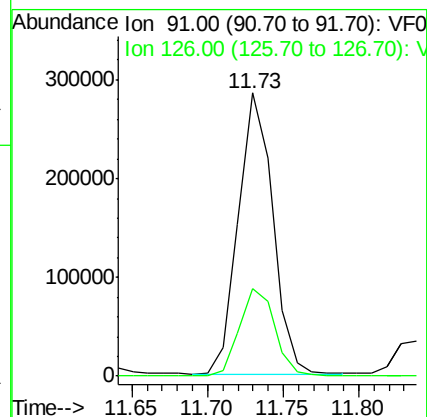
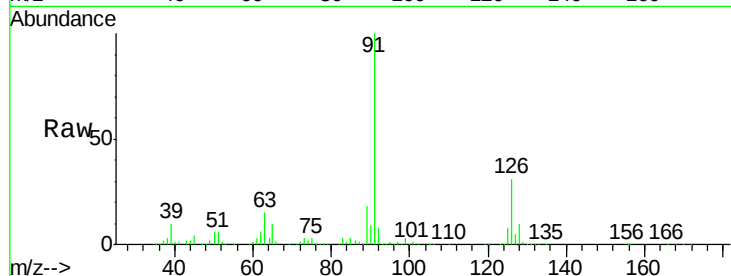
126 30.9 16.6 49.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.240 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061315.D

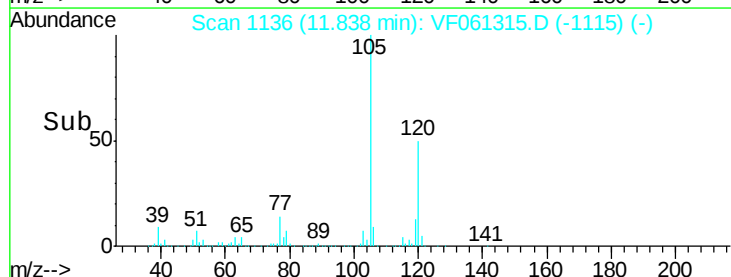
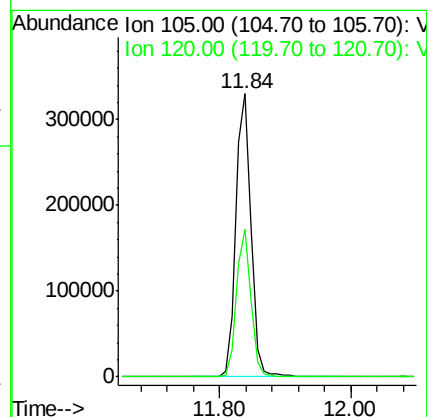
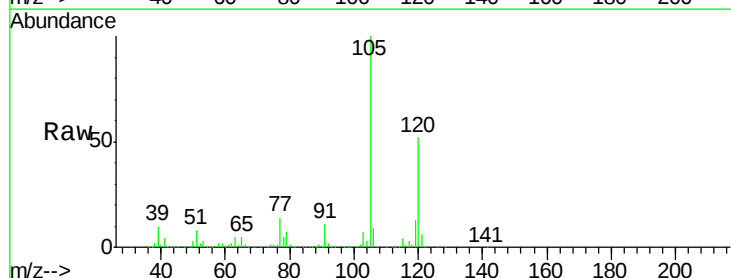
Acq: 9 Jan 2019 23:22

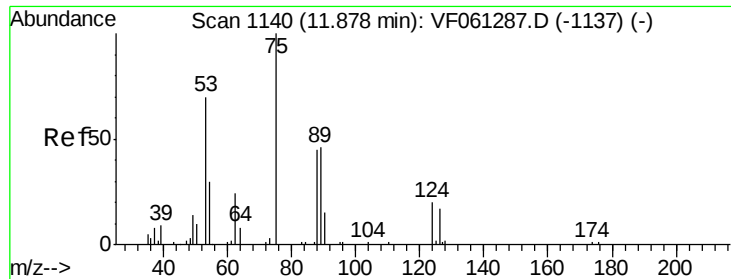
Tgt Ion:105 Resp: 535507

Ion Ratio Lower Upper

105 100

120 52.4 25.2 75.6





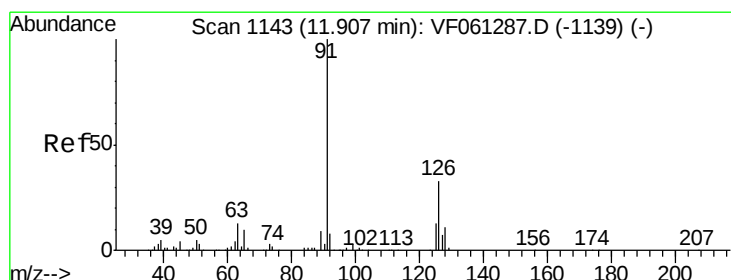
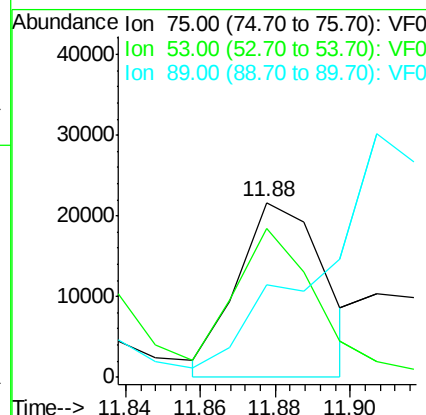
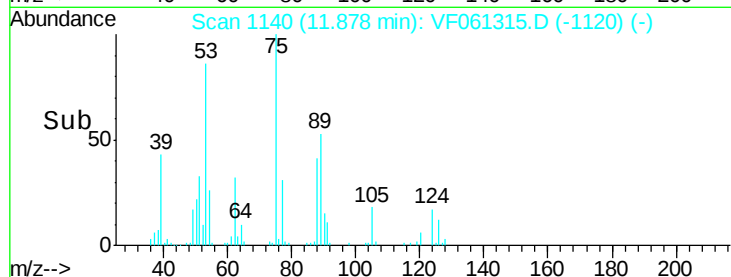
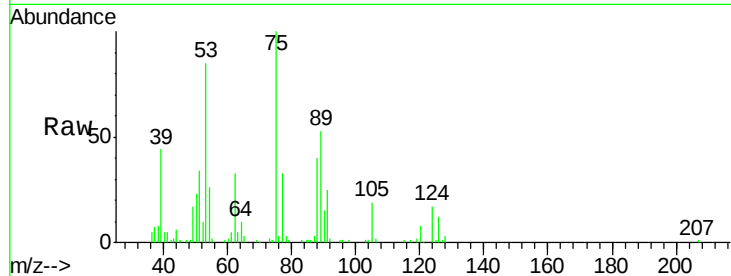
#81
trans-1,4-Dichloro-2-butene
Concen: 52.265 ug/l m
RT: 11.88 min Scan# 1140
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	85.4	62.2	93.2
89	53.3	40.2	60.4

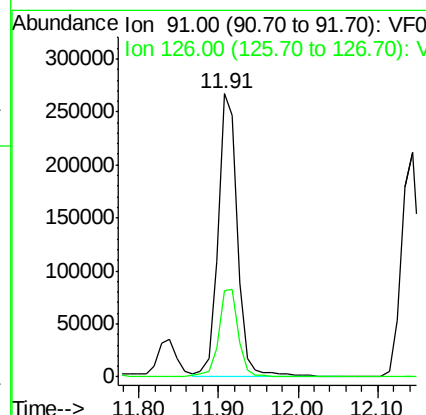
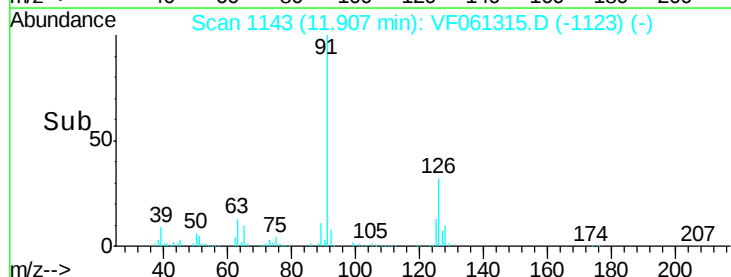
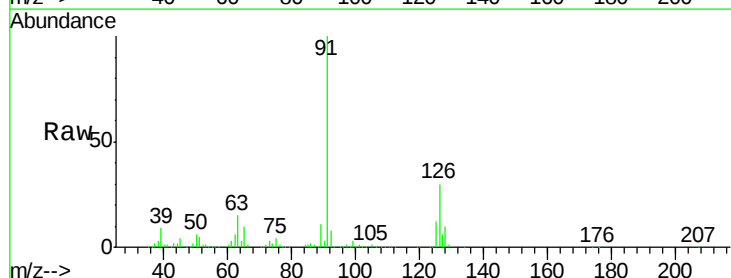
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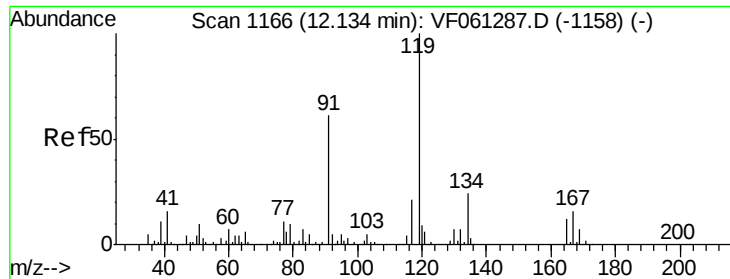
MMDadoda
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#82
4-Chlorotoluene
Concen: 51.201 ug/l
RT: 11.91 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.5	16.4	49.4





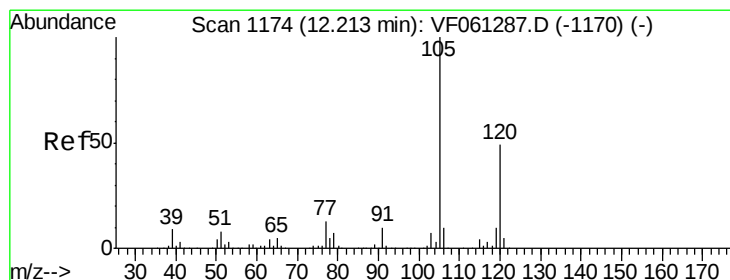
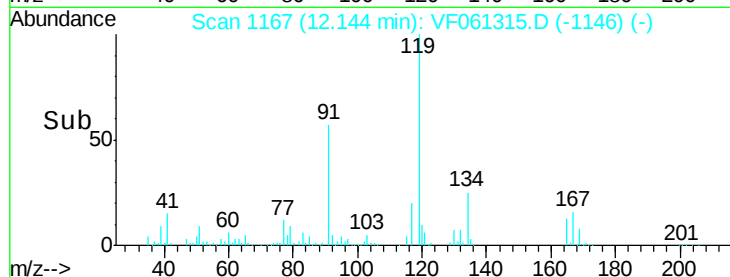
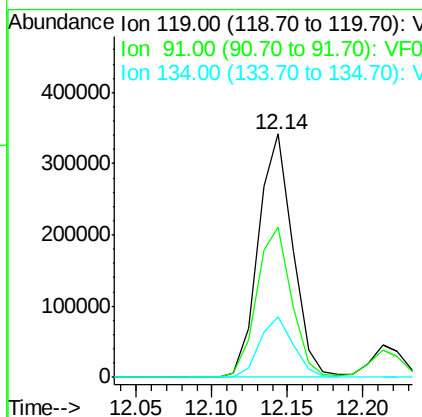
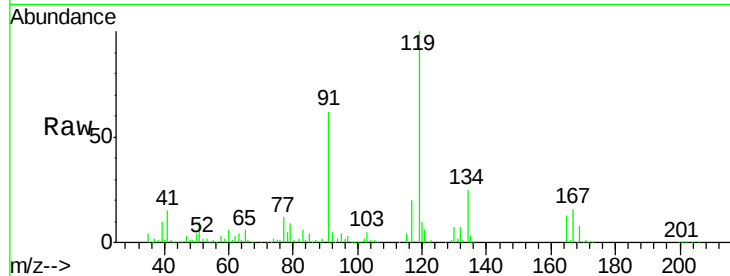
#83
tert-Butylbenzene
Concen: 51.843 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	539799		
91	61.9		30.8	92.4
134	24.8		11.9	35.9

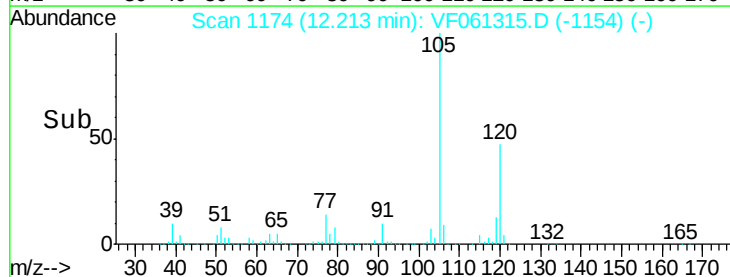
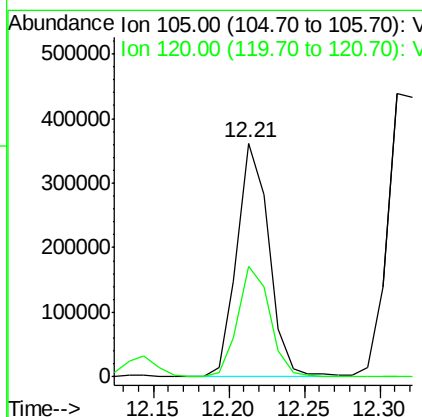
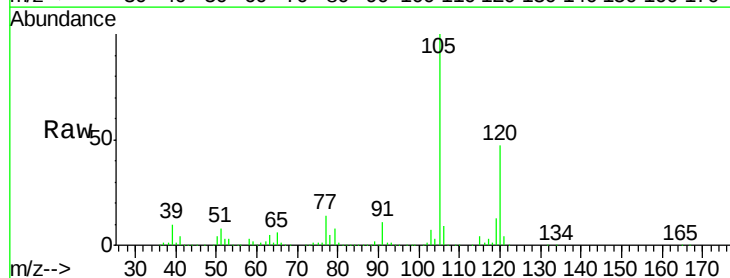
Manual Integrations
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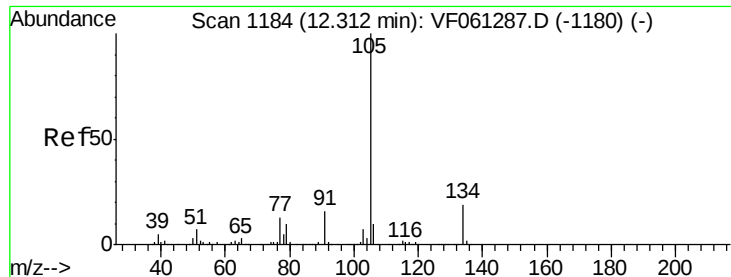
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 51.503 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	534393		
120	47.5		24.7	74.1





#85

sec-Butylbenzene

Concen: 49.525 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 734245

Ion Ratio Lower Upper

105 100

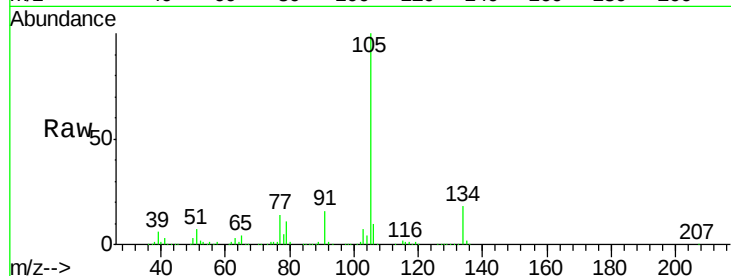
134 17.8 9.7 28.9

Manual Integrations

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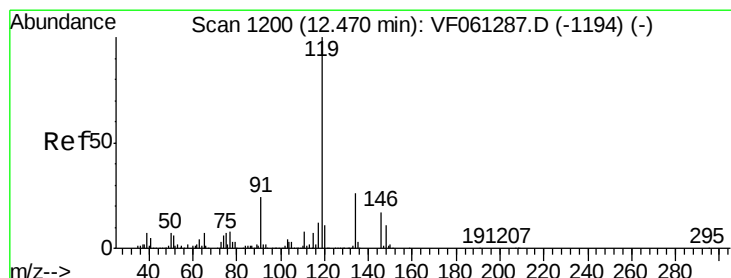
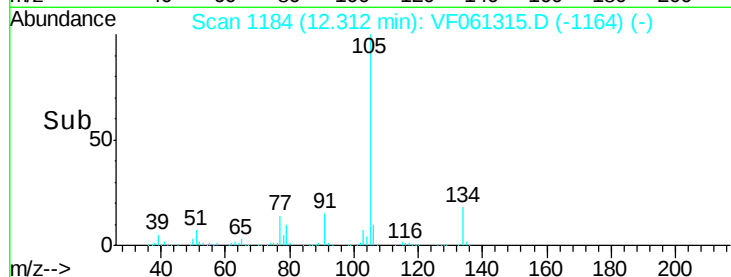
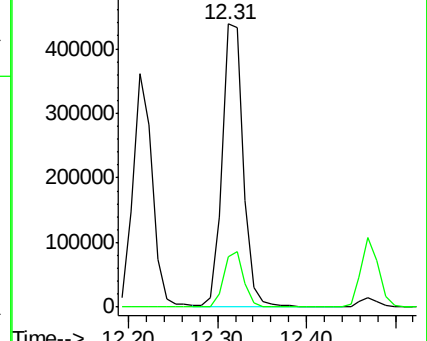
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.728 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

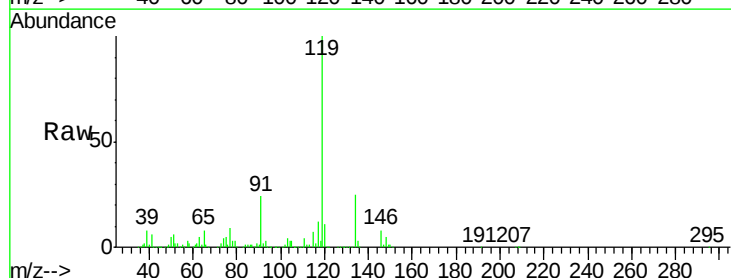
Tgt Ion:119 Resp: 599661

Ion Ratio Lower Upper

119 100

134 25.2 13.0 39.0

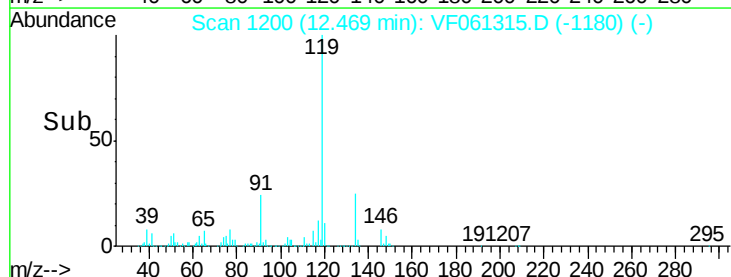
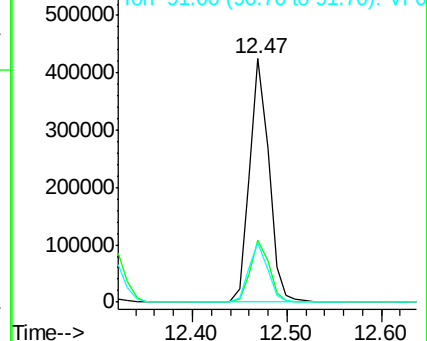
91 24.2 12.2 36.4

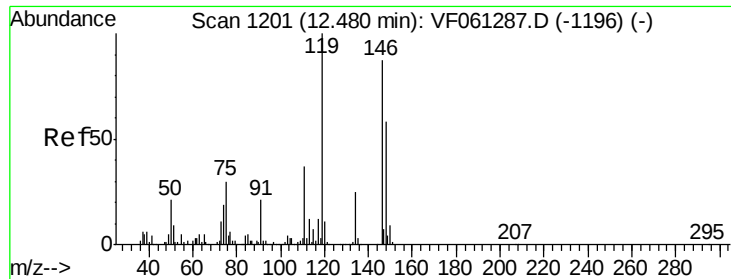


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





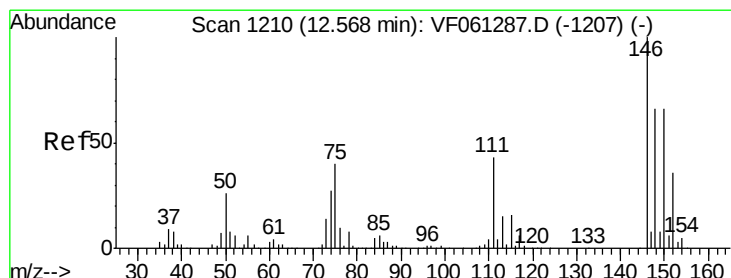
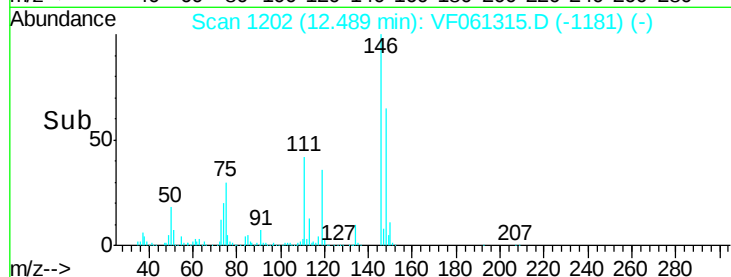
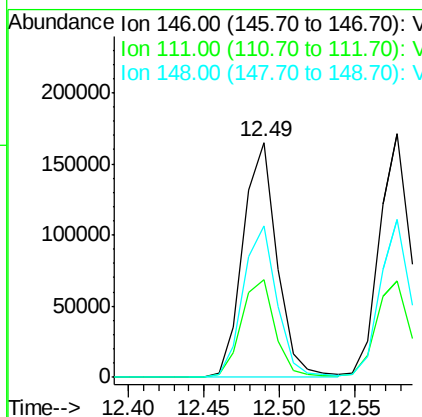
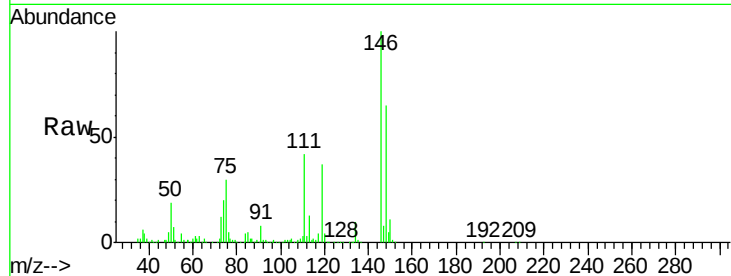
#87
 1,3-Dichlorobenzene
 Concen: 50.719 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.1	63.3
148	64.6	33.1	99.5

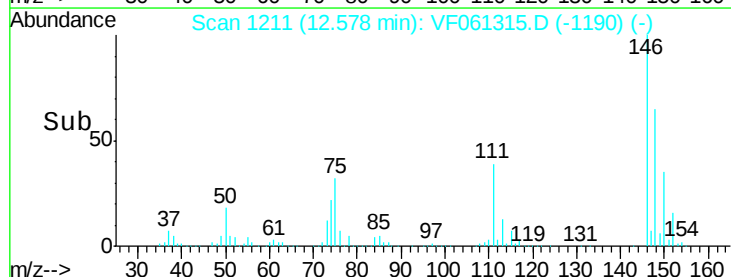
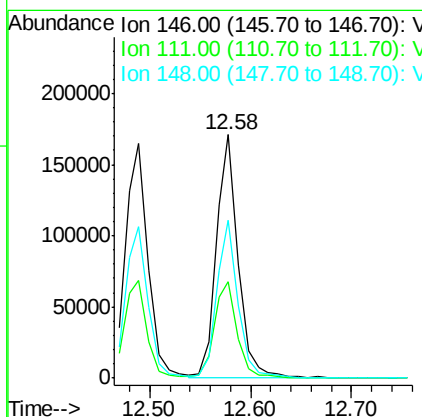
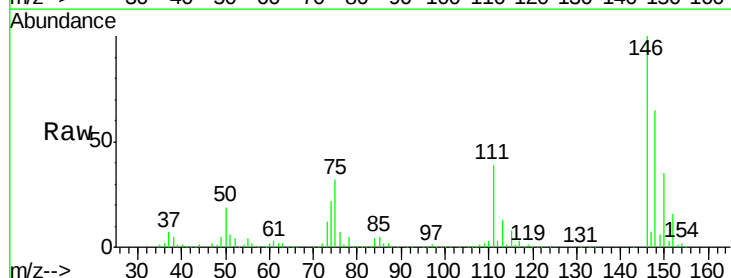
Manual Integrations
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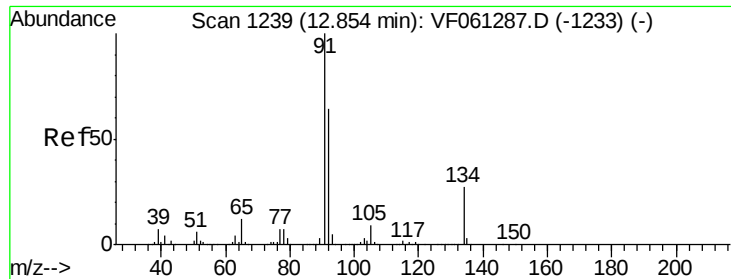
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 1/10/2019 3:31:52 PM



#88
 1,4-Dichlorobenzene
 Concen: 52.497 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	21.4	64.2
148	65.0	33.0	98.9





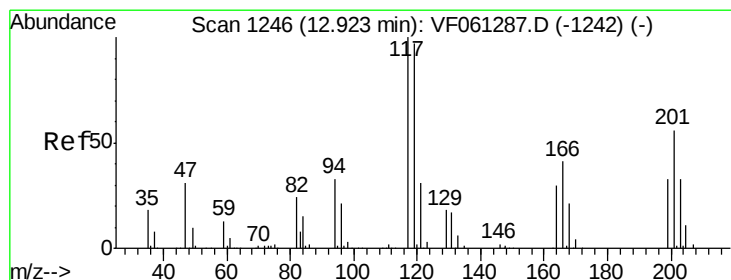
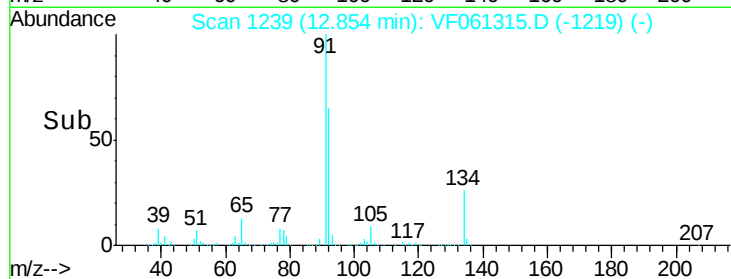
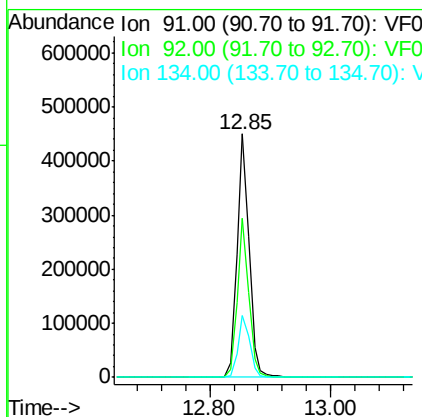
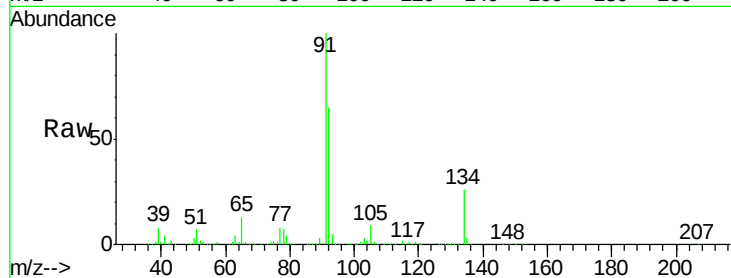
#89
n-Butylbenzene
Concen: 50.008 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.2	32.1	96.3
134	25.6	13.4	40.1

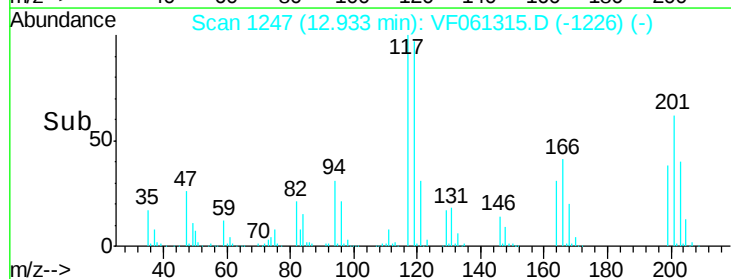
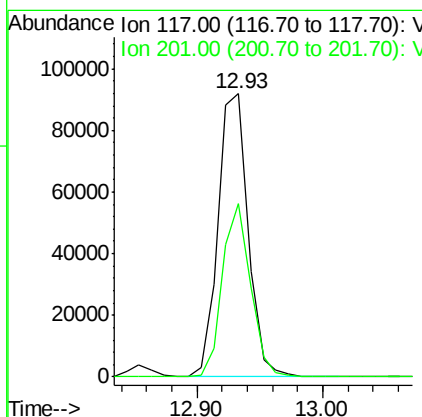
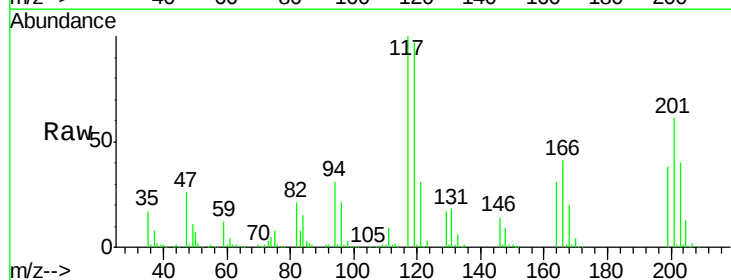
Manual Integrations
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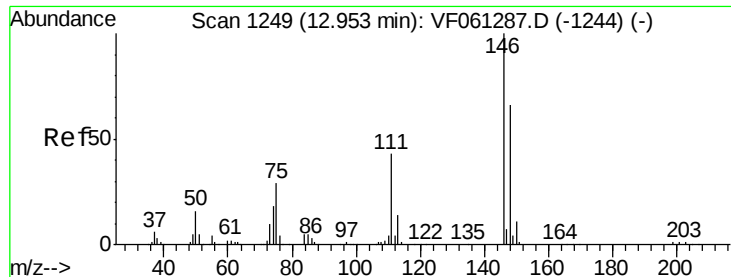
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#90
Hexachloroethane
Concen: 54.899 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.01 min
Lab File: VF061315.D
Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	61.3	27.9	83.7





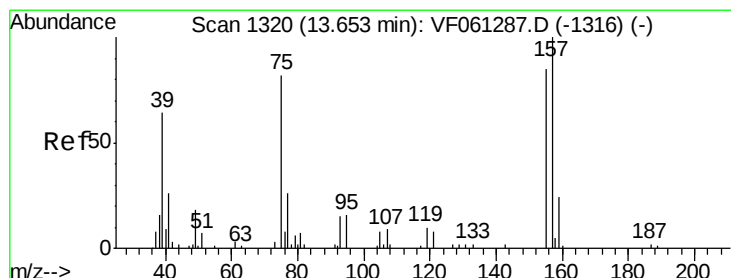
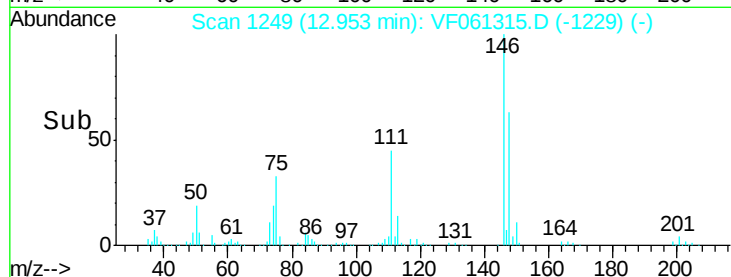
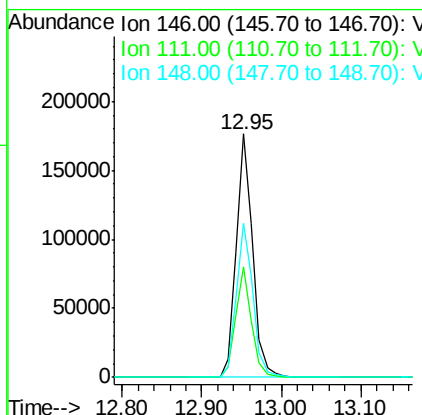
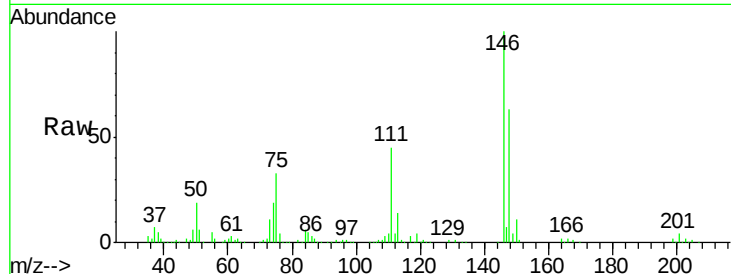
#91
 1,2-Dichlorobenzene
 Concen: 52.808 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.4	64.3
148	63.4	33.1	99.2

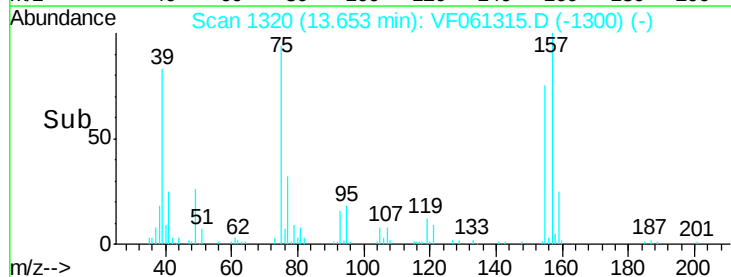
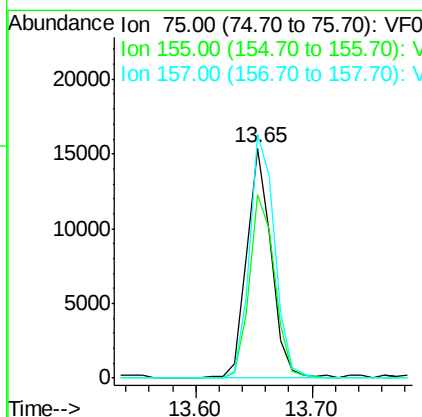
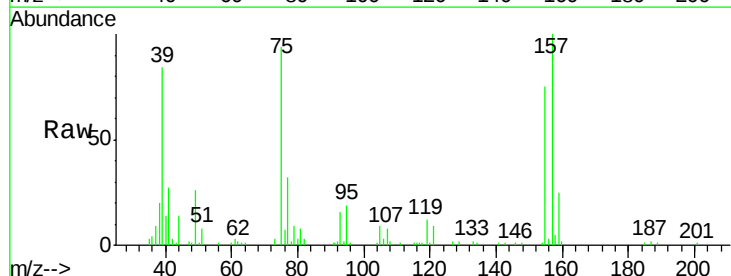
Manual Integrations
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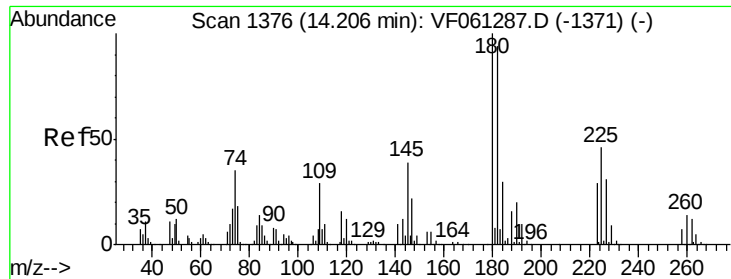
MMDadoda
 1/10/2019 3:31:52 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 63.755 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.5	51.3	154.0
157	105.9	60.7	182.0





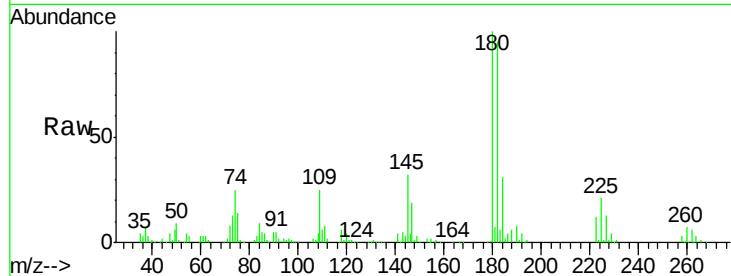
#93
 1,2,4-Trichlorobenzene
 Concen: 51.967 ug/l
 RT: 14.22 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

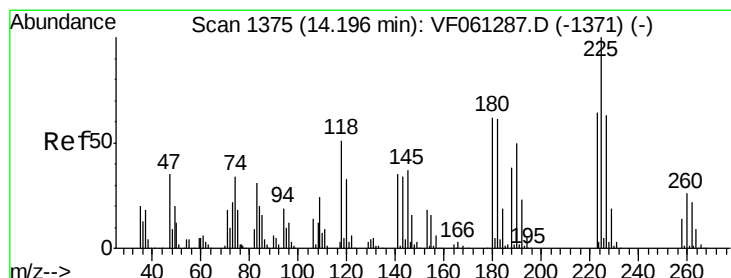
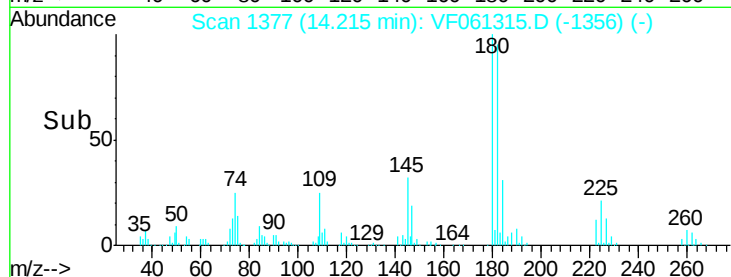
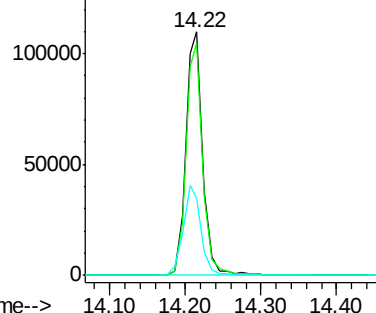
Tot Ion	Ratio	Resp	Lower	Upper
180	100	174176		
182	95.2	47.0	141.2	
145	31.8	19.7	59.1	

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 3:31:52 PM

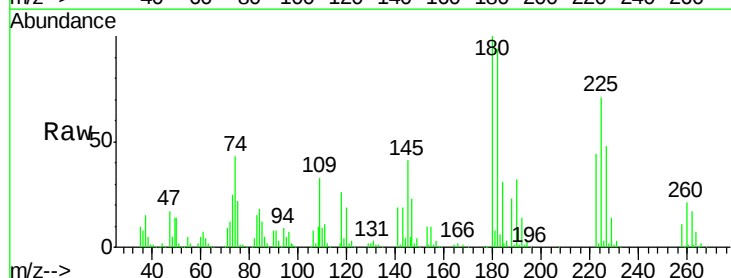


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

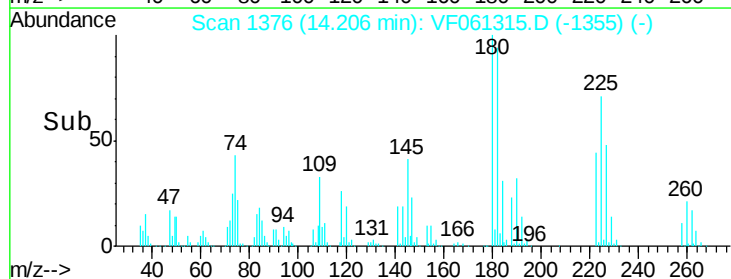
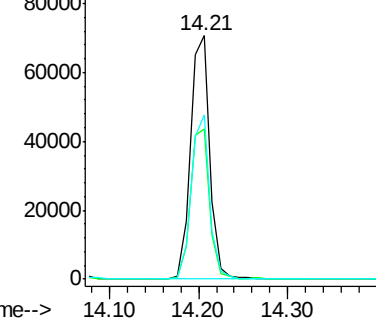


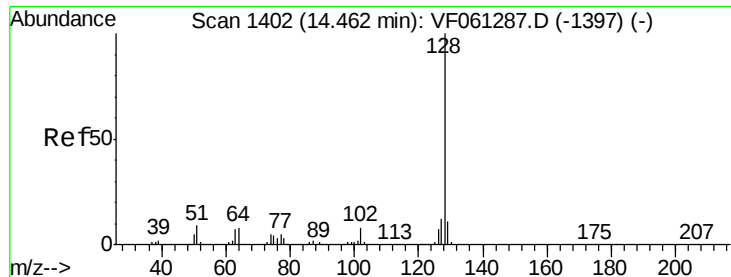
#94
 Hexachlorobutadiene
 Concen: 50.163 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061315.D
 Acq: 9 Jan 2019 23:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108237		
223	61.9	31.8	95.4	
227	67.4	31.3	93.9	



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





#95

Naphthalene

Concen: 58.407 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Instrument :

MSVOA_F

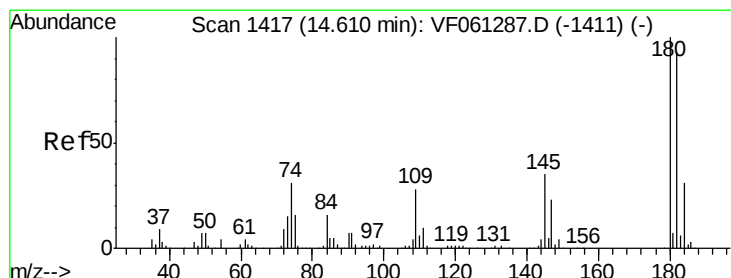
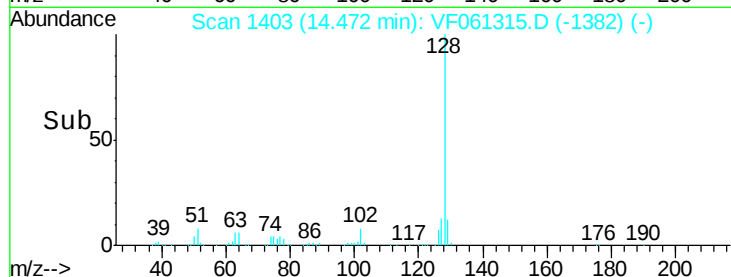
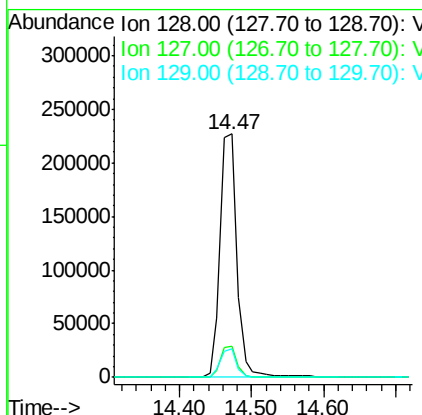
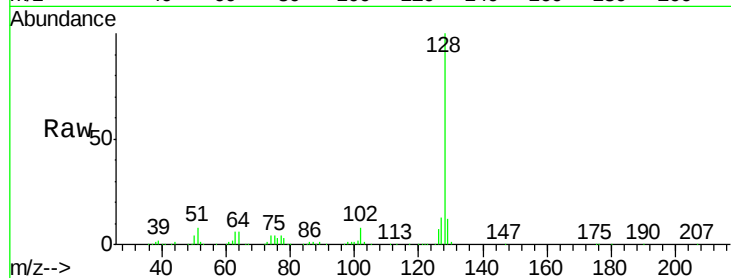
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	368910
Ion Ratio		Lower	Upper
128	100		
127	12.8	9.4	14.0
129	11.5	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/10/2019 3:31:52 PM



#96

1,2,3-Trichlorobenzene

Concen: 51.263 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061315.D

Acq: 9 Jan 2019 23:22

Tgt Ion:	180	Resp:	161849
Ion Ratio		Lower	Upper
180	100		
182	93.7	46.5	139.3
145	36.8	17.5	52.6

