

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061956.D
 Acq On : 15 Mar 2019 12:50
 Operator : VA/AP
 Sample : VF0315SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/17/2019 5:23:07 AM

Quant Time: Mar 15 23:34:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	280290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	417036	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	368583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	198712	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	120279	58.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.86%	
35) Dibromofluoromethane	4.12	113	167815	57.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.32%	
50) Toluene-d8	7.56	98	471112	54.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.92%	
62) 4-Bromofluorobenzene	11.42	95	184728	54.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	75743	22.011	ug/l	96
3) Chloromethane	1.10	50	78100	23.419	ug/l	92
4) Vinyl Chloride	1.14	62	72433	22.879	ug/l	98
5) Bromomethane	1.32	94	47666	22.093	ug/l	97
6) Chloroethane	1.40	64	35258	23.429	ug/l	92
7) Trichlorofluoromethane	1.48	101	87471	22.622	ug/l	95
8) Diethyl Ether	1.64	74	19477	22.151	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.84	101	62335	23.740	ug/l	97
10) Methyl Iodide	1.91	142	112567m	22.528	ug/l	
11) Tert butyl alcohol	2.58	59	12917	111.491	ug/l	96
12) 1,1-Dichloroethene	1.81	96	56237	23.460	ug/l	98
13) Acrolein	2.01	56	11029	75.128	ug/l	85
14) Allyl chloride	2.10	41	66679	25.249	ug/l	94
15) Acrylonitrile	2.96	53	43138	116.931	ug/l	92
16) Acetone	2.25	43	54150	126.645	ug/l	96
17) Carbon Disulfide	1.84	76	167984	22.512	ug/l	99
18) Methyl Acetate	2.36	43	21969	26.020	ug/l	95
19) Methyl tert-butyl Ether	2.44	73	89208	21.999	ug/l	99
20) Methylene Chloride	2.19	84	59119m	21.936	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	58571	25.961	ug/l	93
22) Diisopropyl ether	2.81	45	165802	24.136	ug/l	97
23) Vinyl Acetate	3.20	43	361271	117.721	ug/l	99
24) 1,1-Dichloroethane	2.88	63	96229	23.436	ug/l	99
25) 2-Butanone	4.35	43	103543	119.053	ug/l	97
26) 2,2-Dichloropropane	3.61	77	43998	24.004	ug/l	98
27) cis-1,2-Dichloroethene	3.49	96	70649	22.603	ug/l	93
28) Bromochloromethane	3.73	49	40026	22.363	ug/l	92
29) Tetrahydrofuran	4.08	42	42545	113.428	ug/l	99
30) Chloroform	3.87	83	109007	23.243	ug/l	96
31) Cyclohexane	3.70	56	101089m	23.505	ug/l	
32) 1,1,1-Trichloroethane	4.11	97	68342	23.641	ug/l	91
36) 1,1-Dichloropropene	4.29	75	87129	22.117	ug/l	95
37) Ethyl Acetate	4.13	43	40057	24.226	ug/l #	76
38) Carbon Tetrachloride	3.99	117	61342	21.997	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	103154	22.169	ug/l	95
40) Benzene	4.65	78	241114	23.416	ug/l	100
41) Methacrylonitrile	4.76	41	21154	23.351	ug/l #	84
42) 1,2-Dichloroethane	4.95	62	56805	22.136	ug/l	99
43) Isopropyl Acetate	6.97	43	44224	21.698	ug/l #	83
44) Trichloroethene	5.51	130	70579	22.056	ug/l	100
45) 1,2-Dichloropropane	6.24	63	58215	23.775	ug/l	99
46) Dibromomethane	6.09	93	33254	21.579	ug/l	95
47) Bromodichloromethane	6.39	83	74850	21.985	ug/l	96
48) Methyl methacrylate	6.73	41	29427	22.813	ug/l	96
49) 1,4-Dioxane	6.73	88	4934	418.426	ug/l #	54
51) 4-Methyl-2-Pentanone	8.26	43	167024	118.568	ug/l	98
52) Toluene	7.63	92	133611	21.934	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	63180	22.482	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	84391	21.771	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	41490	23.639	ug/l	98
56) Ethyl methacrylate	8.63	69	46231	23.373	ug/l	98
57) 1,3-Dichloropropane	8.87	76	64367	22.425	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.31	63	37119	118.628	ug/l	95
59) 2-Hexanone	9.51	43	127974	125.929	ug/l	100
60) Dibromochloromethane	8.73	129	54789	21.903	ug/l	94
61) 1,2-Dibromoethane	8.99	107	44283	22.944	ug/l	98
64) Tetrachloroethene	8.16	164	60982	21.532	ug/l	95
65) Chlorobenzene	9.80	112	156491	22.099	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	62053	22.617	ug/l	96
67) Ethyl Benzene	9.91	91	277430	23.637	ug/l	100
68) m/p-Xylenes	10.14	106	206771	45.987	ug/l	98
69) o-Xylene	10.72	106	100362	20.729	ug/l	99
70) Styrene	10.80	104	149732	21.975	ug/l	96
71) Bromoform	10.78	173	29783	20.539	ug/l	97
73) Isopropylbenzene	11.13	105	304543	22.262	ug/l	99
74) N-amyl acetate	11.38	43	72260	22.944	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	52335	23.018	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	35763	23.046	ug/l	98
77) Bromobenzene	11.50	156	76093	23.112	ug/l	97
78) n-propylbenzene	11.60	91	350214	22.669	ug/l	99
79) 2-Chlorotoluene	11.73	91	200054	22.650	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	241226	21.962	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	15842m	22.325	ug/l	
82) 4-Chlorotoluene	11.90	91	199563	22.090	ug/l	98
83) tert-Butylbenzene	12.14	119	264818	22.706	ug/l	93
84) 1,2,4-Trimethylbenzene	12.21	105	242075	22.483	ug/l	96
85) sec-Butylbenzene	12.31	105	351246	23.143	ug/l	99
86) p-Isopropyltoluene	12.47	119	290975	22.555	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	141588	22.648	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	140399	23.281	ug/l	96
89) n-Butylbenzene	12.85	91	281733	22.851	ug/l	94
90) Hexachloroethane	12.92	117	65992	21.252	ug/l	95
91) 1,2-Dichlorobenzene	12.95	146	132138	22.309	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8264	23.121	ug/l	79

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Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	89192	21.479	ug/l	98
94) Hexachlorobutadiene	14.20	225	57508	20.005	ug/l	97
95) Naphthalene	14.47	128	152812	20.662	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	80863	21.091	ug/l	96

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

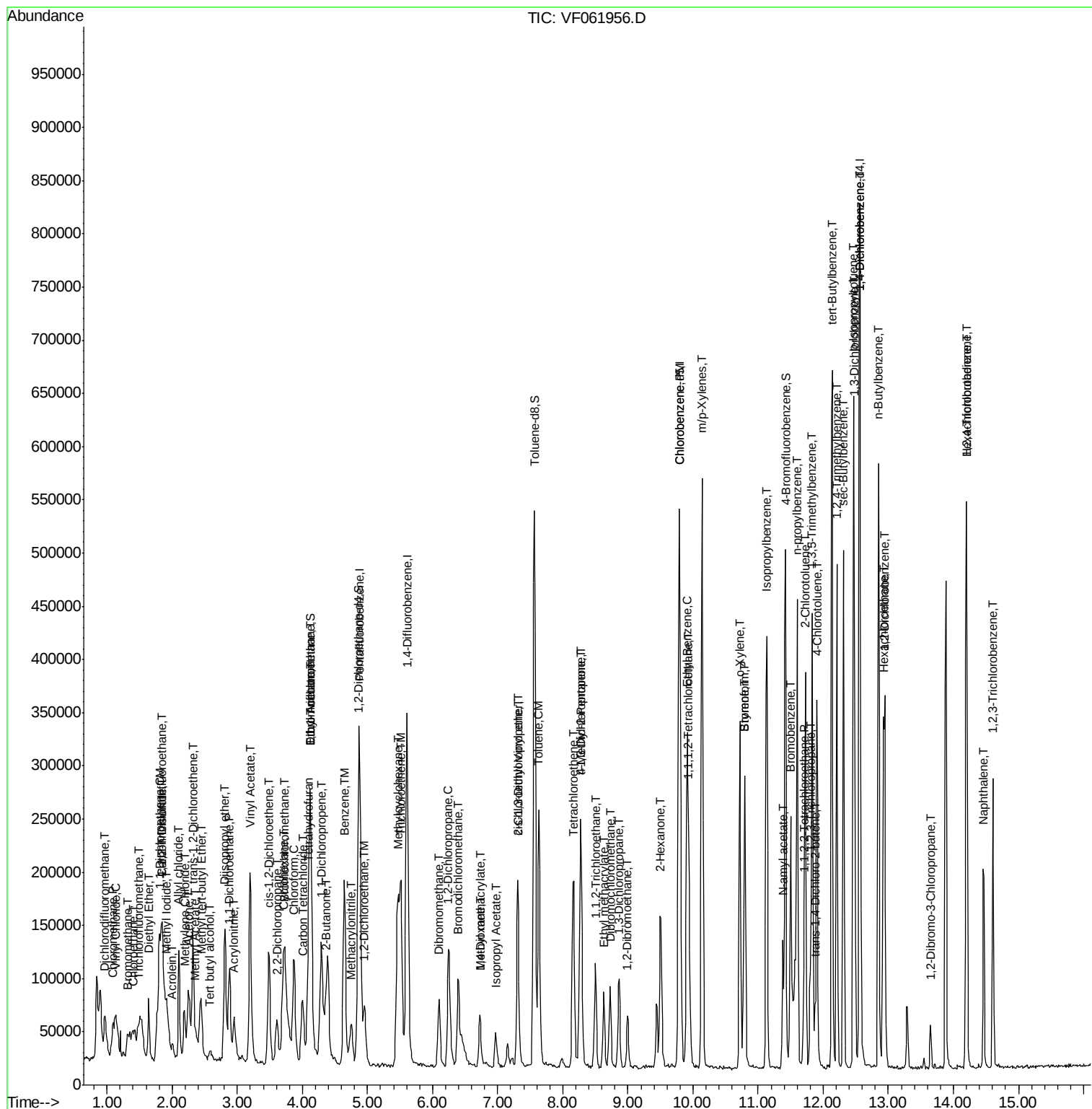
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031519\
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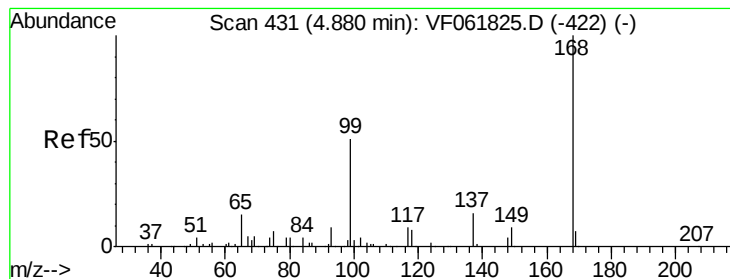
Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:168 Resp: 280290

Ion Ratio Lower Upper

168 100

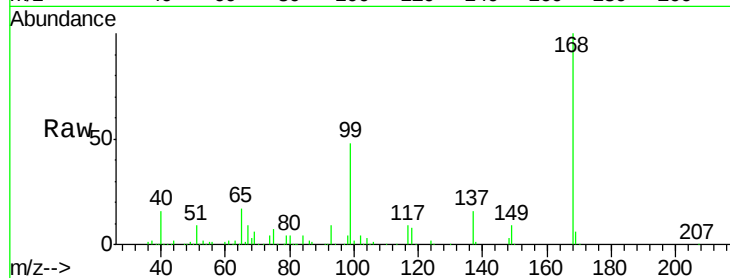
99 48.4 40.8 61.2

Manual Integrations

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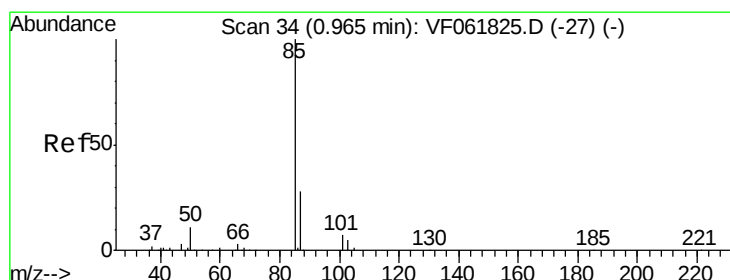
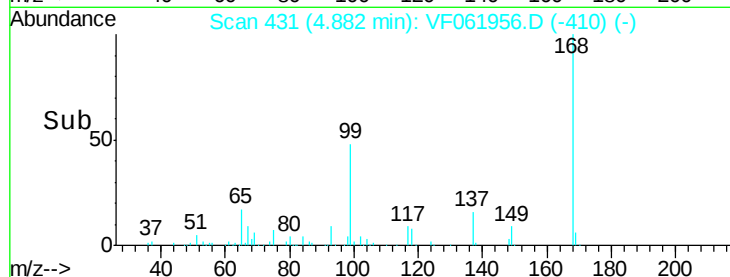
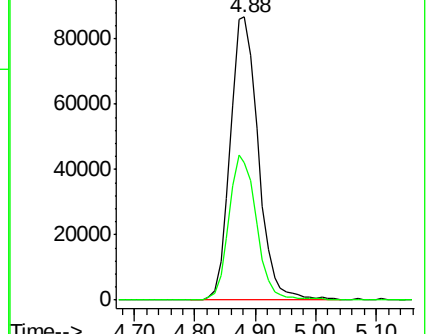
MMDadoda

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 22.011 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061956.D

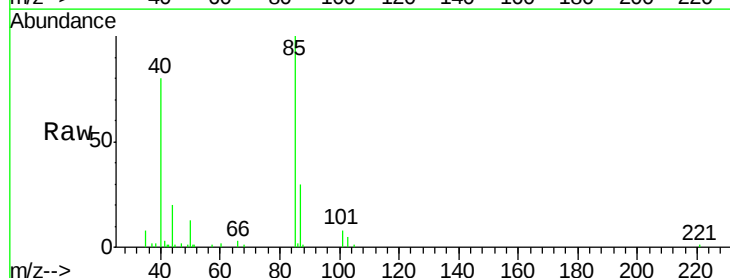
Acq: 15 Mar 2019 12:50

Tgt Ion: 85 Resp: 75743

Ion Ratio Lower Upper

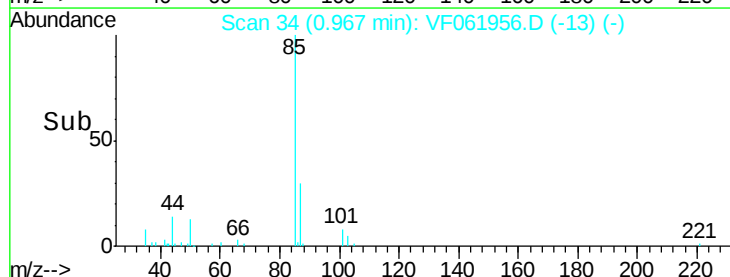
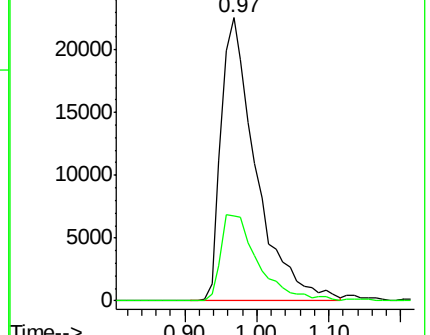
85 100

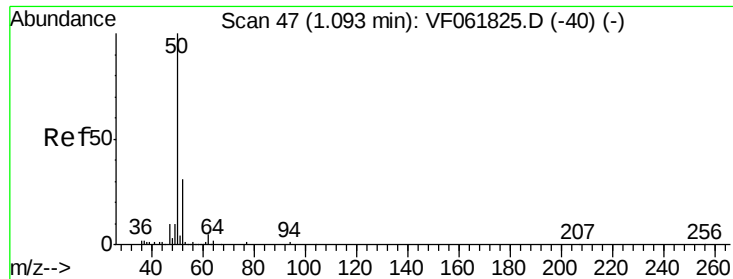
87 30.2 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 23.419 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 50 Resp: 78100

Ion Ratio Lower Upper

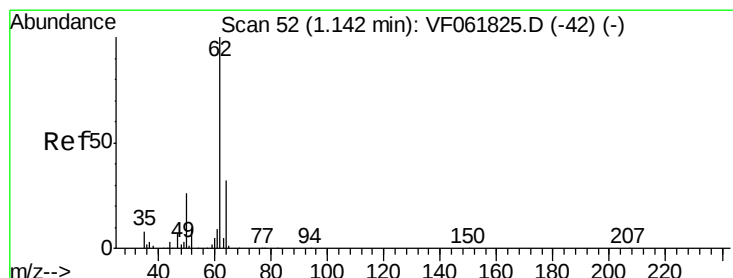
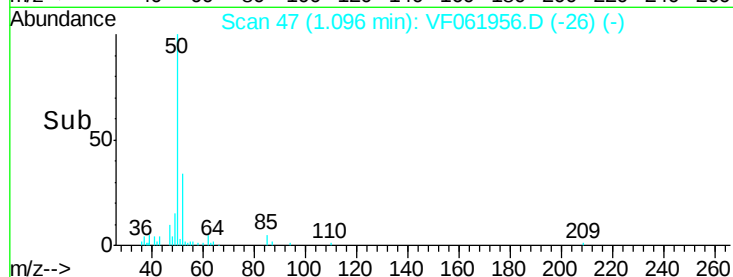
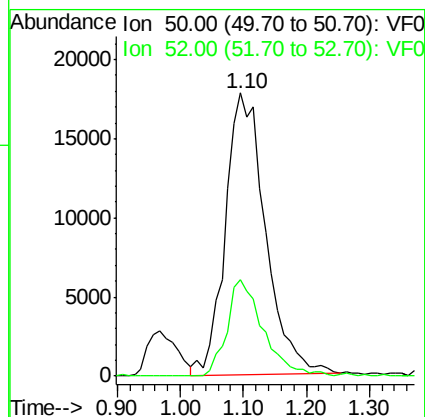
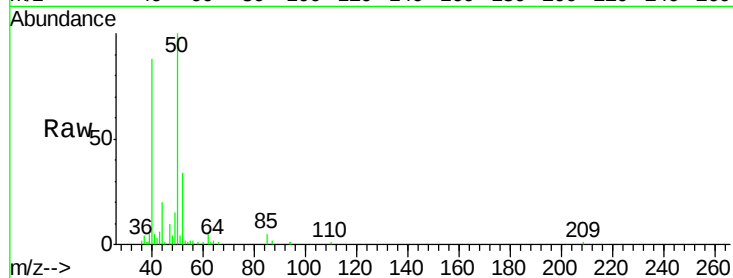
50 100

52 33.9 23.8 35.8

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#4

Vinyl Chloride

Concen: 22.879 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061956.D

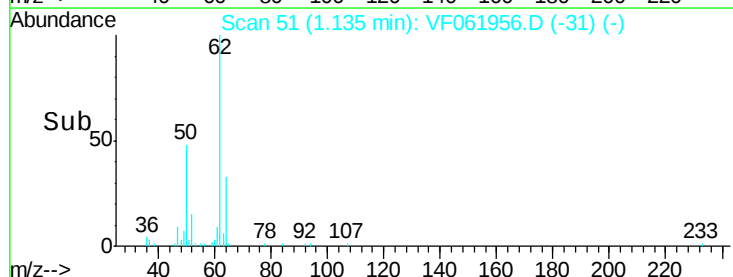
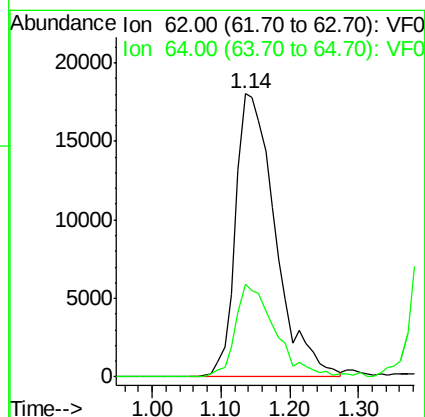
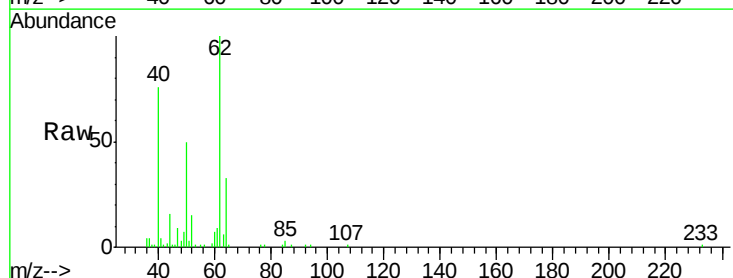
Acq: 15 Mar 2019 12:50

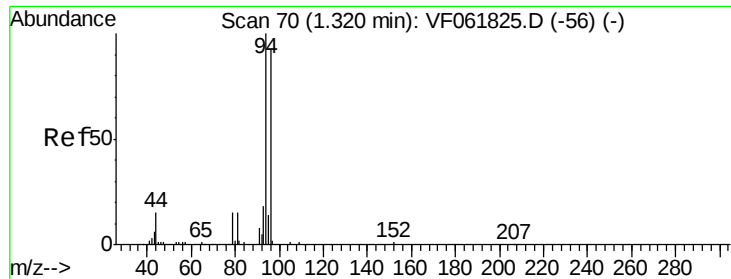
Tgt Ion: 62 Resp: 72433

Ion Ratio Lower Upper

62 100

64 32.8 25.2 37.8





#5

Bromomethane

Concen: 22.093 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 47666

Ion Ratio Lower Upper

94 100

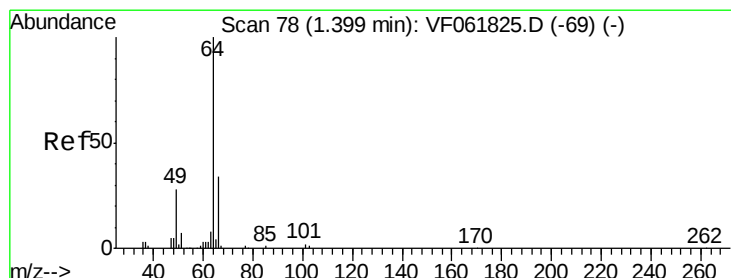
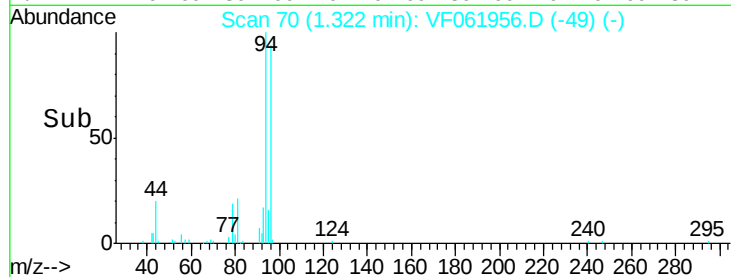
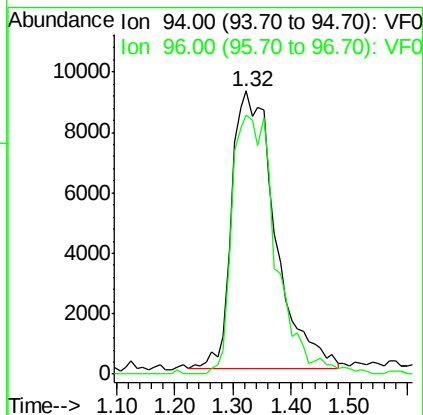
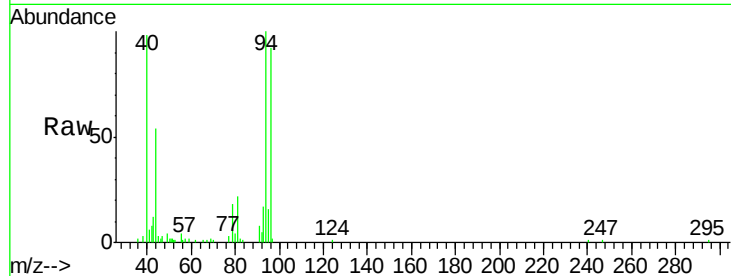
96 91.6 75.2 112.8

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#6

Chloroethane

Concen: 23.429 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061956.D

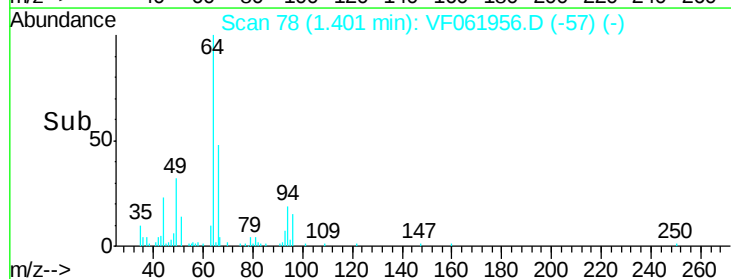
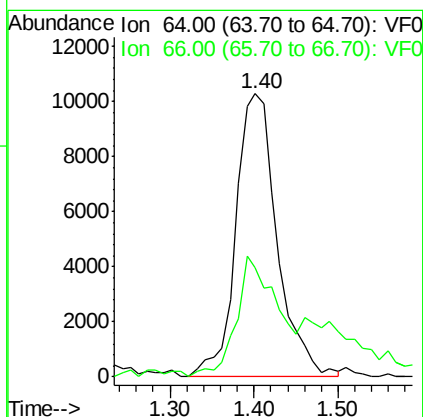
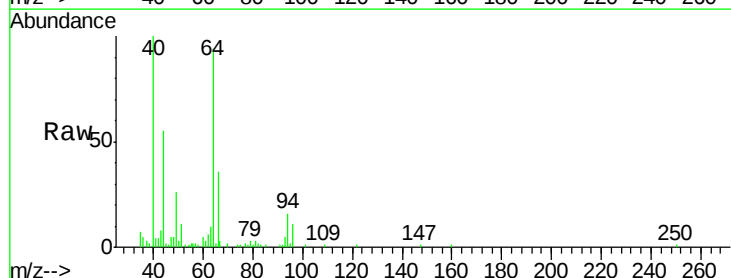
Acq: 15 Mar 2019 12:50

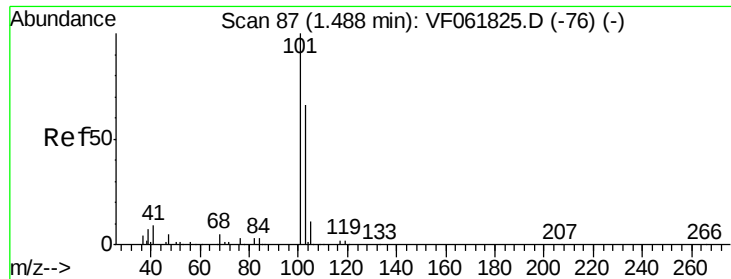
Tgt Ion: 64 Resp: 35258

Ion Ratio Lower Upper

64 100

66 38.4 27.0 40.4





#7

Trichlorofluoromethane

Concen: 22.622 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:101 Resp: 87471

Ion Ratio Lower Upper

101 100

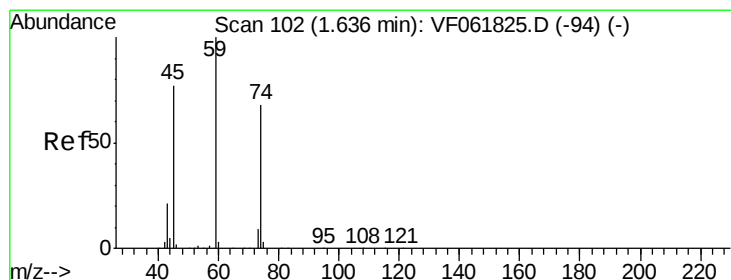
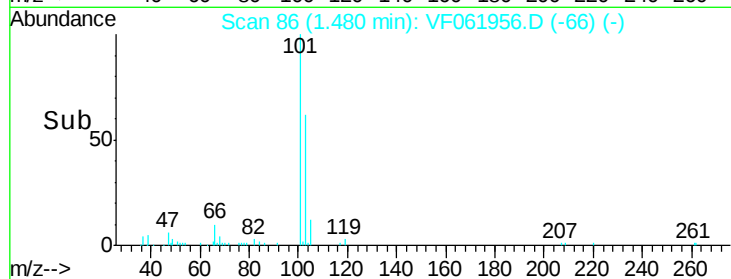
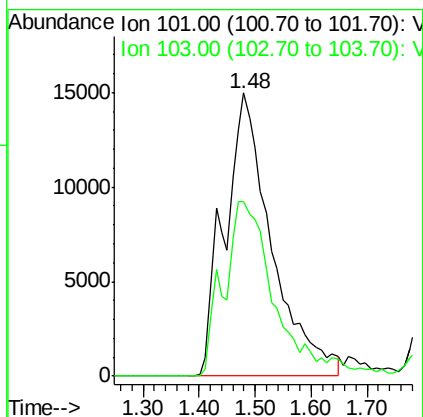
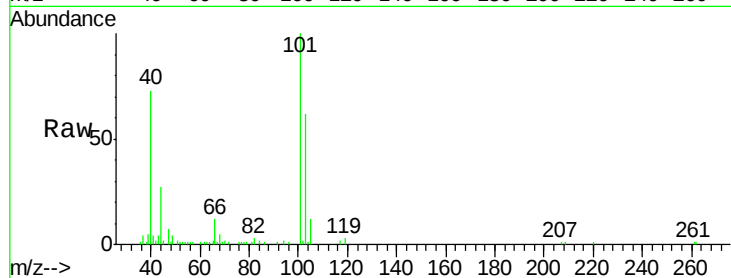
103 61.9 52.8 79.2

Manual Integrations

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#8

Diethyl Ether

Concen: 22.151 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF061956.D

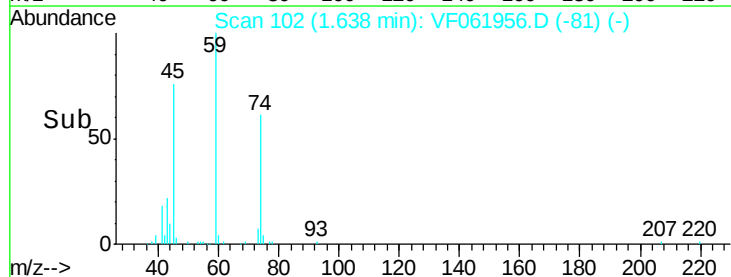
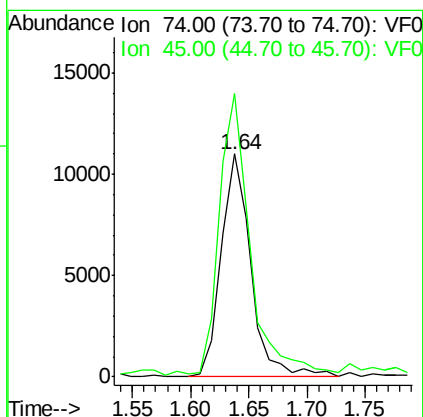
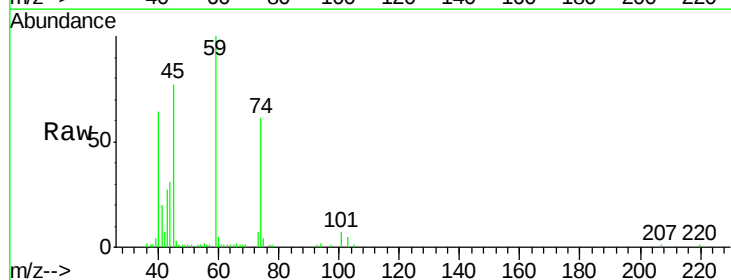
Acq: 15 Mar 2019 12:50

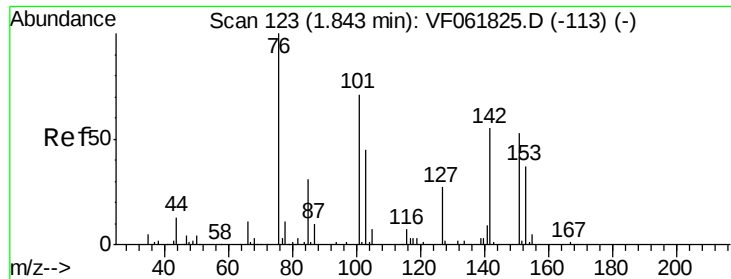
Tgt Ion: 74 Resp: 19477

Ion Ratio Lower Upper

74 100

45 126.9 57.2 171.6





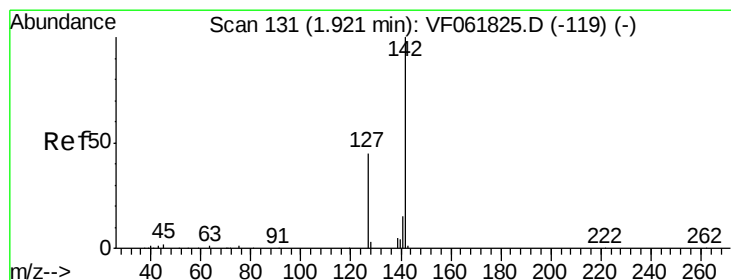
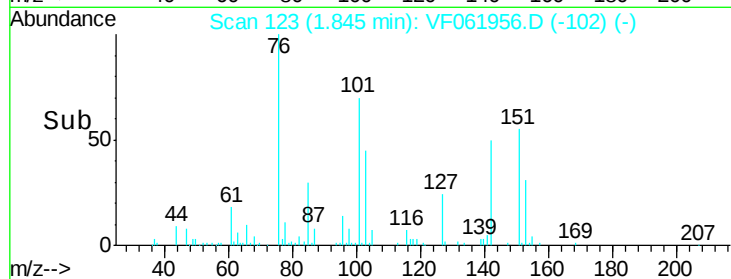
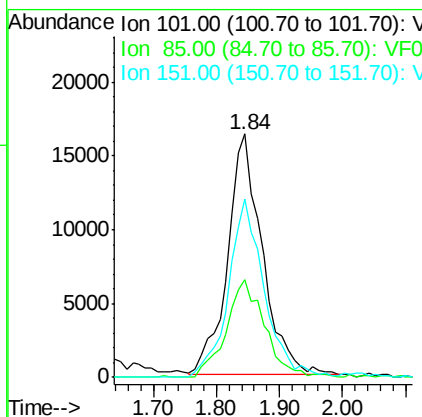
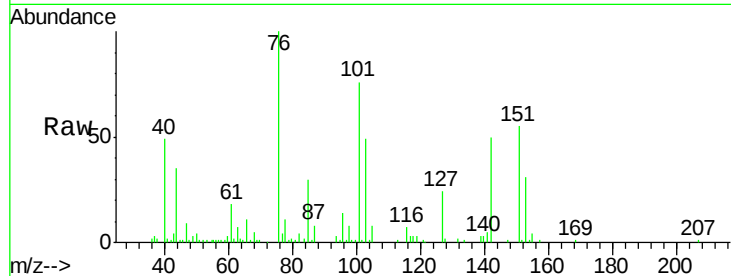
#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.740 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	39.9	34.0	51.0
151	73.1	57.3	85.9

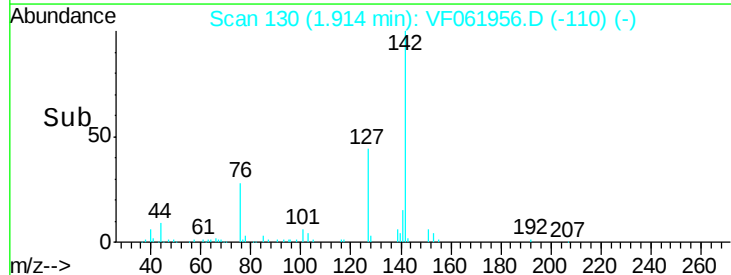
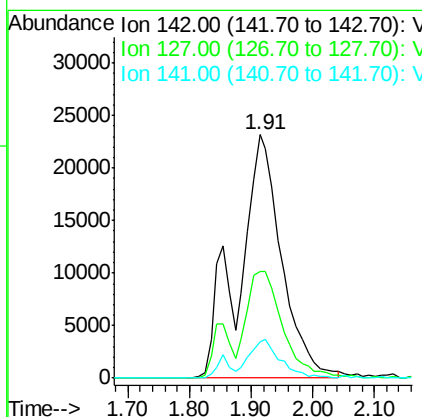
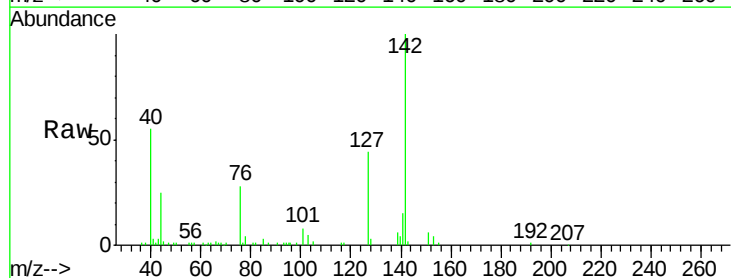
Manual Integrations
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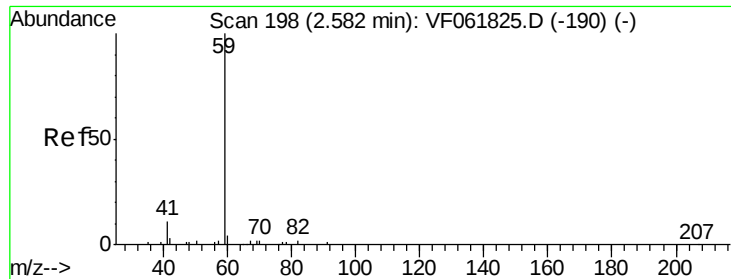
MMDadoda
3/17/2019 5:23:07 AM



#10
Methyl Iodide
Concen: 22.528 ug/l m
RT: 1.91 min Scan# 130
Delta R.T. -0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.9	35.8	53.6
141	15.0	11.7	17.5





#11

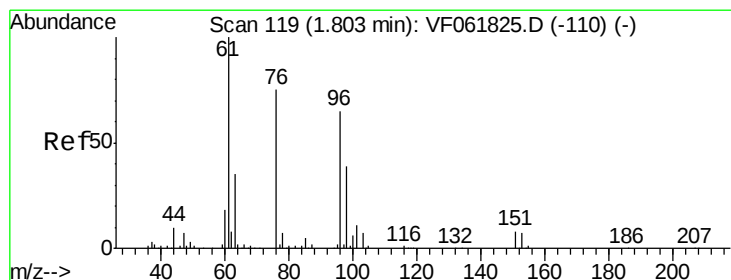
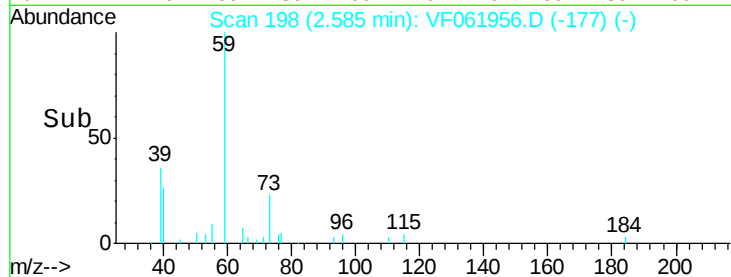
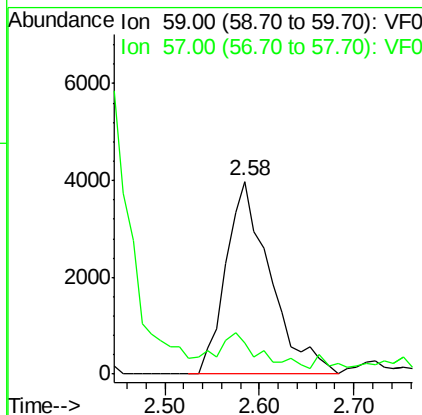
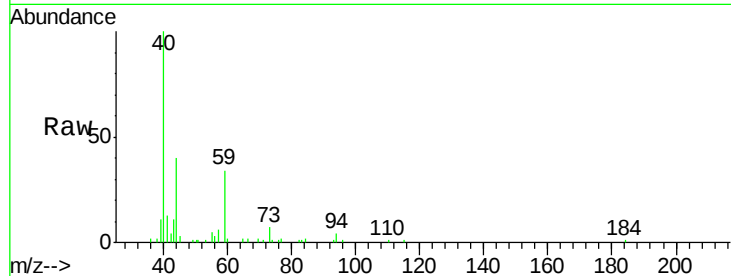
Tert butyl alcohol
Concen: 111.491 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.5	11.8	17.6

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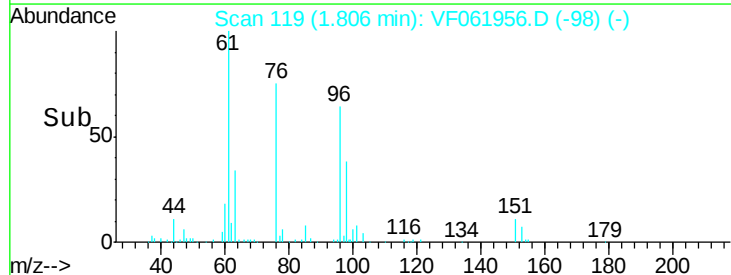
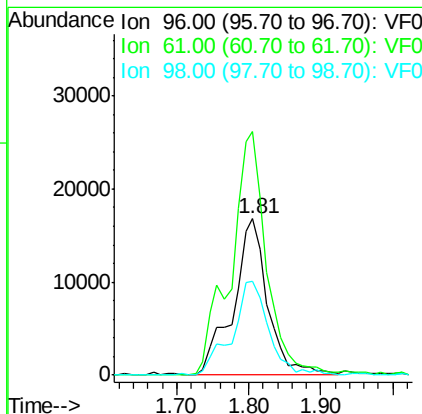
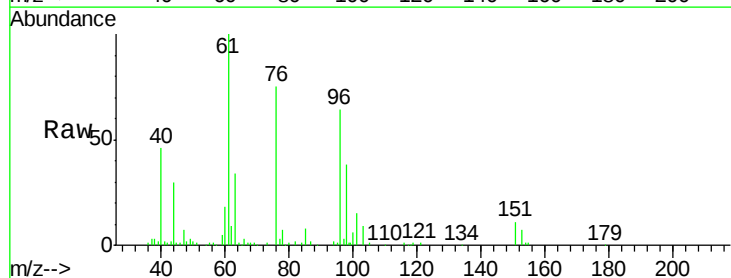
MMDadoda
3/17/2019 5:23:07 AM

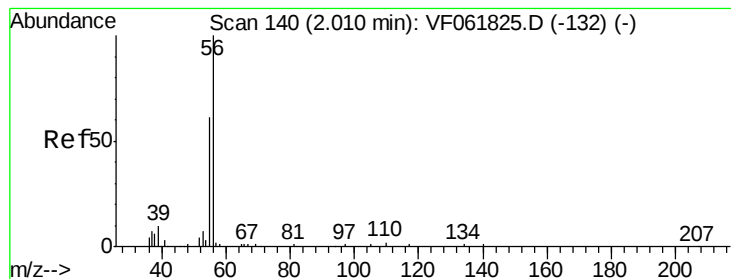


#12

1,1-Dichloroethene
Concen: 23.460 ug/l
RT: 1.81 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.9	122.5	183.7
98	59.7	47.1	70.7





#13

Acrolein

Concen: 75.128 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 56 Resp: 11029

Ion Ratio Lower Upper

56 100

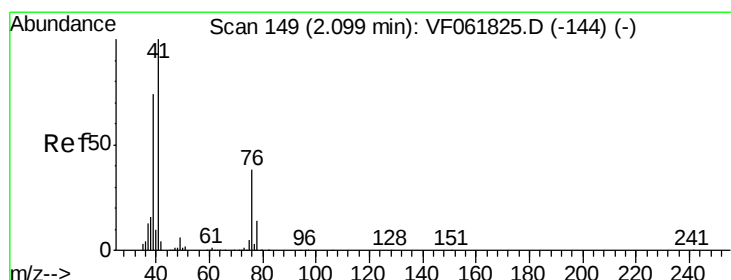
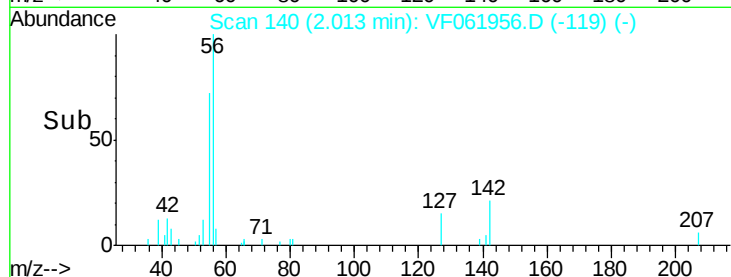
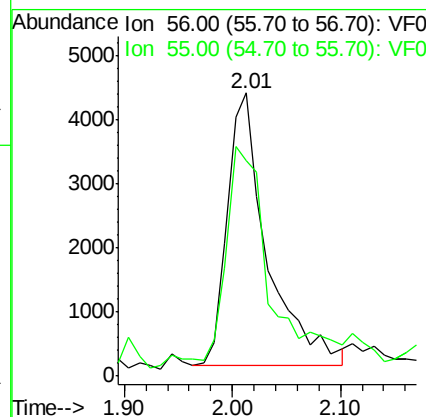
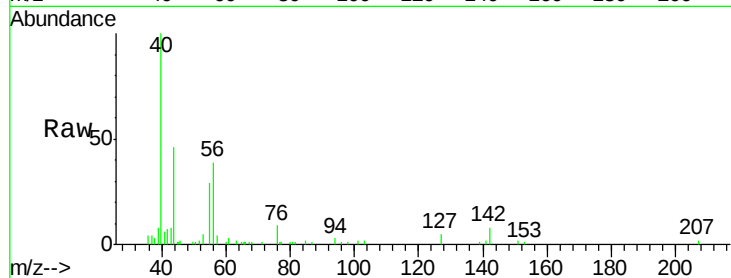
55 76.2 51.3 76.9

Manual Integrations

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#14

Allyl chloride

Concen: 25.249 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

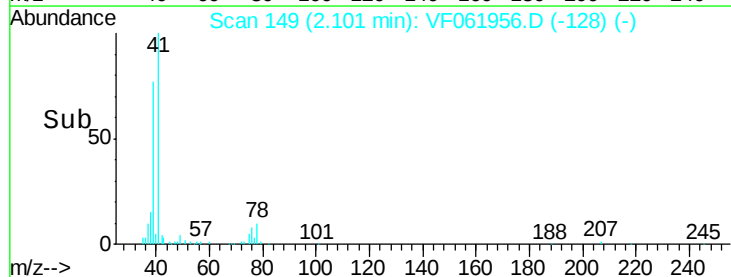
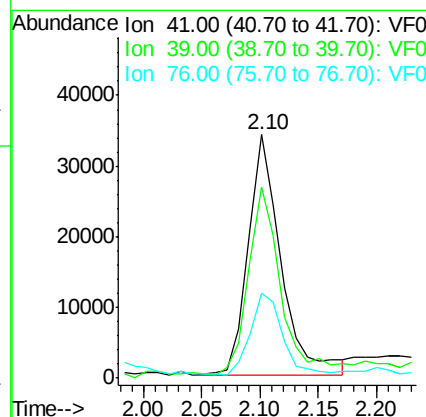
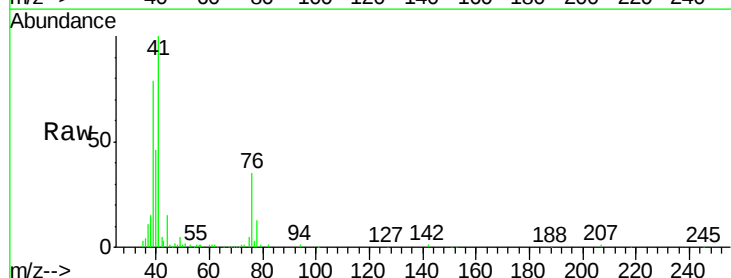
Tgt Ion: 41 Resp: 66679

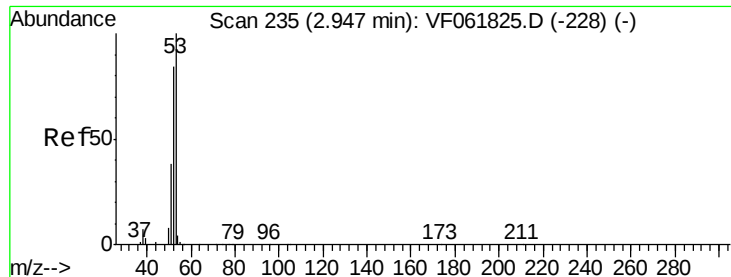
Ion Ratio Lower Upper

41 100

39 78.6 59.6 89.4

76 34.8 32.3 48.5





#15

Acrylonitrile

Concen: 116.931 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

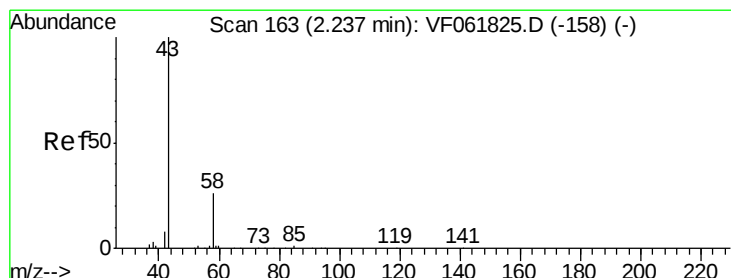
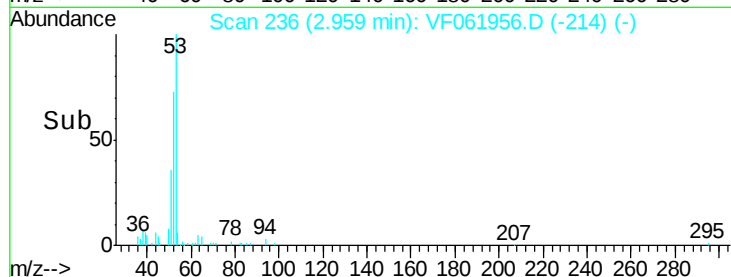
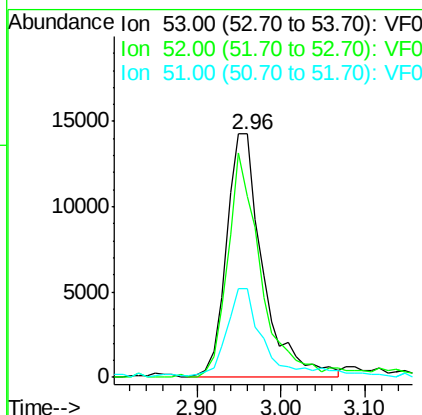
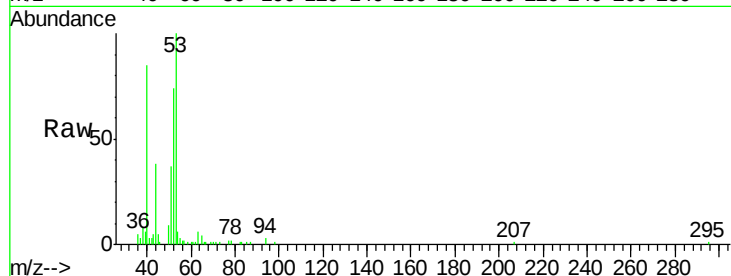
ClientSampleId :

VF0315SBS01

Tot Ion:	53	Resp:	43138
Ion	Ratio	Lower	Upper
53	100		
52	74.4	67.4	101.0
51	36.6	30.7	46.1

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#16

Acetone

Concen: 126.645 ug/l

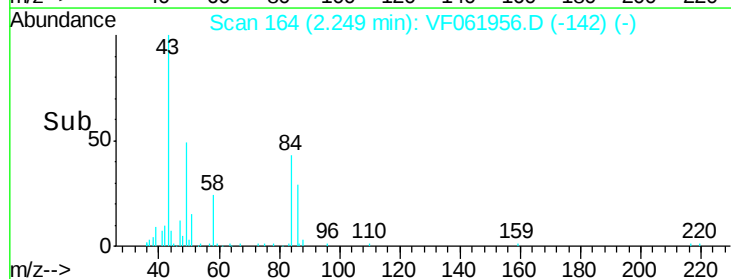
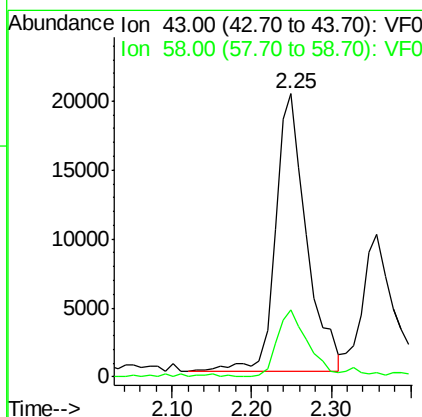
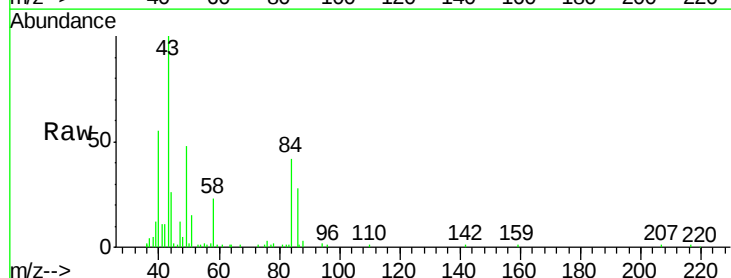
RT: 2.25 min Scan# 164

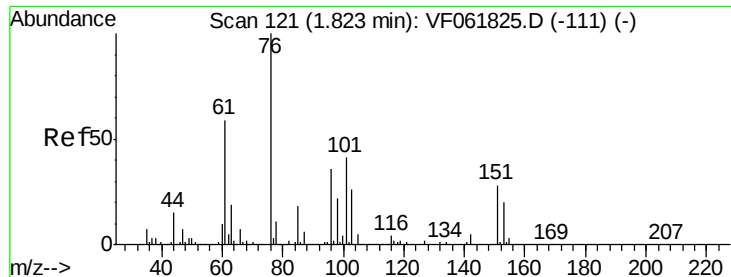
Delta R.T. 0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	43	Resp:	54150
Ion	Ratio	Lower	Upper
43	100		
58	23.5	20.3	30.5





#17

Carbon Disulfide

Concen: 22.512 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 76 Resp: 167984

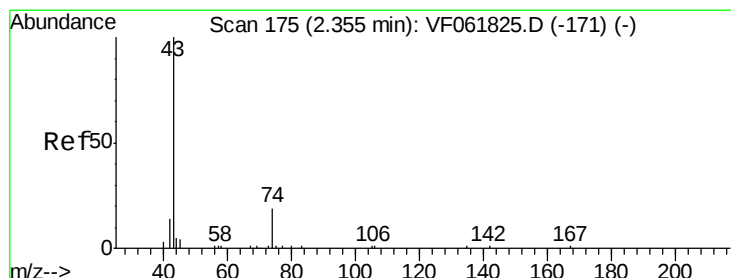
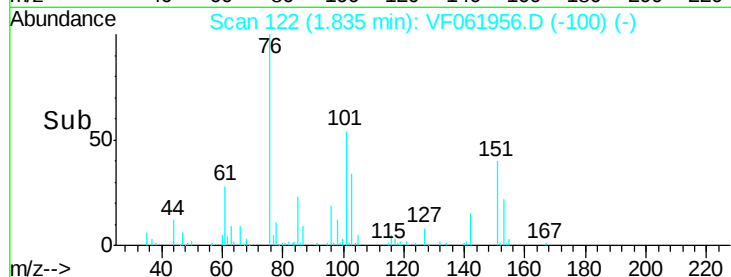
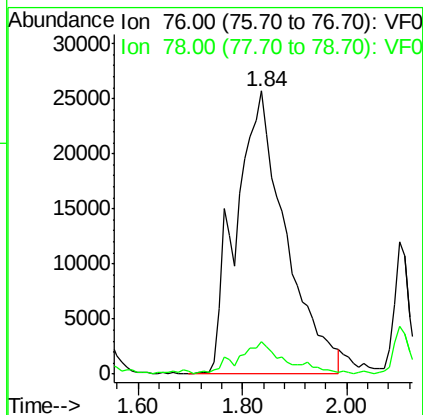
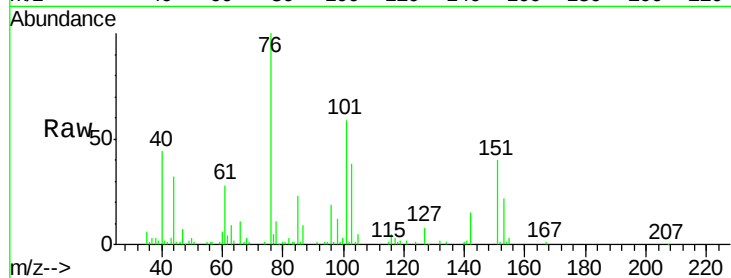
Ion Ratio Lower Upper

76 100

78 11.8 9.1 13.7

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#18

Methyl Acetate

Concen: 26.020 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.00 min

Lab File: VF061956.D

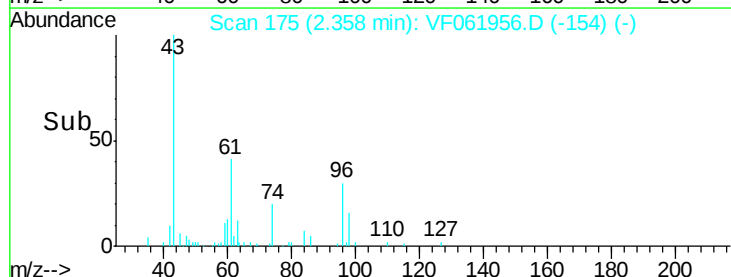
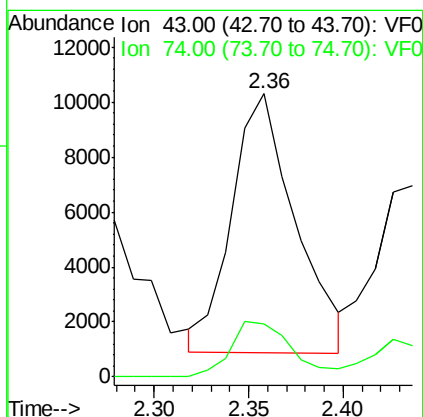
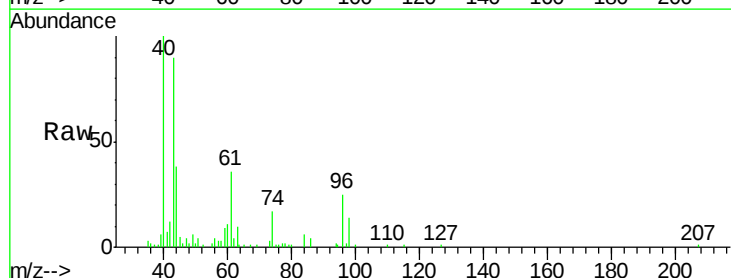
Acq: 15 Mar 2019 12:50

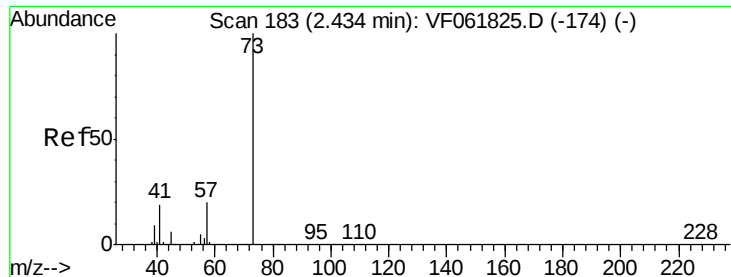
Tgt Ion: 43 Resp: 21969

Ion Ratio Lower Upper

43 100

74 18.7 13.2 19.8





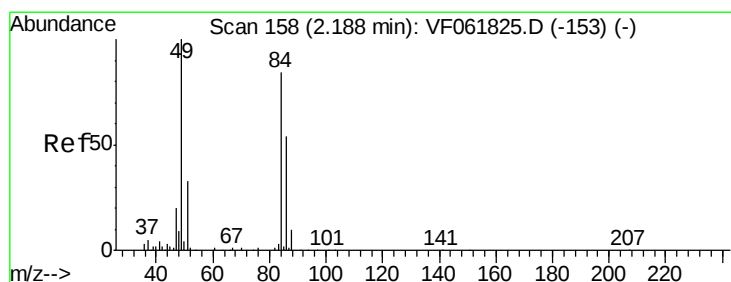
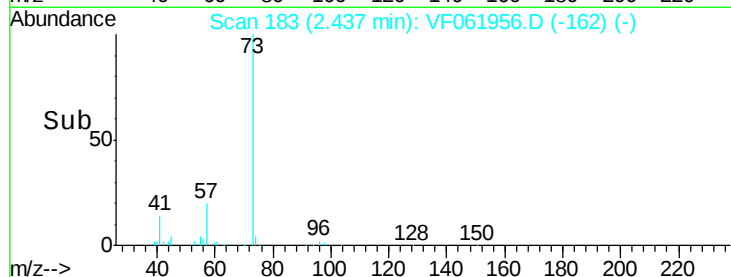
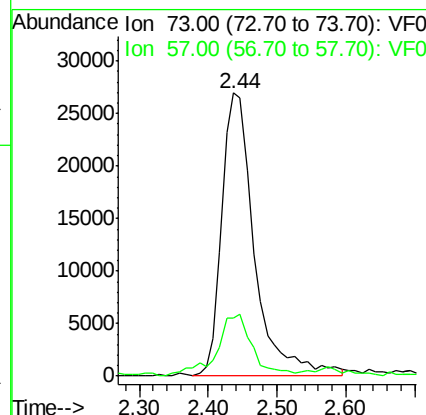
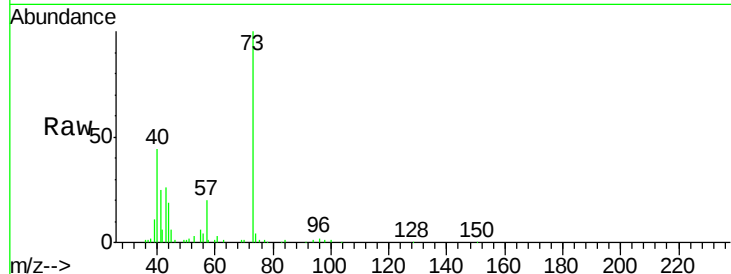
#19
Methvl tert-butvl Ether
Concen: 21.999 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion: 73 Resp: 89208
Ion Ratio Lower Upper
73 100
57 20.5 16.1 24.1

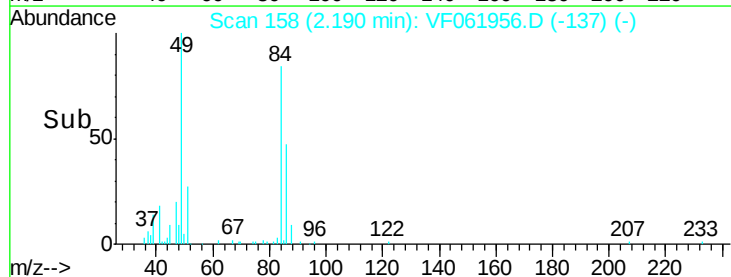
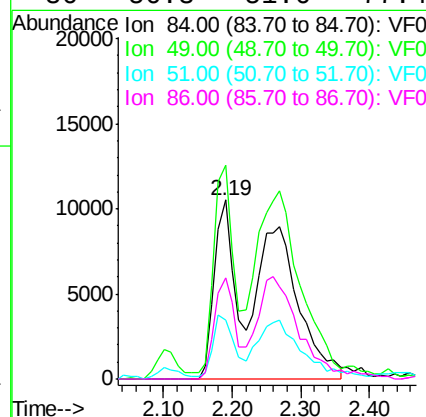
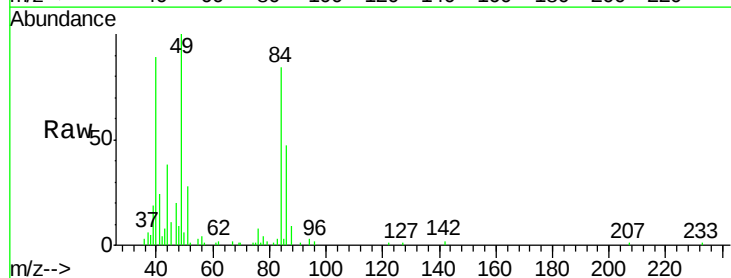
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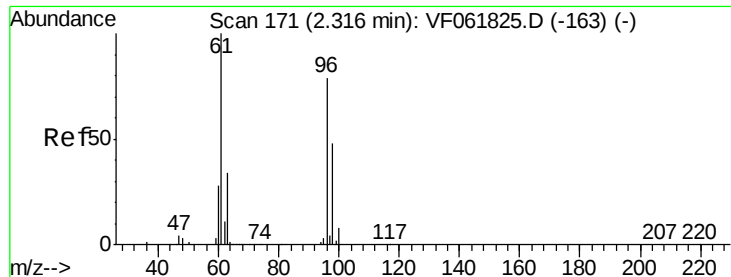
MMDadoda
3/17/2019 5:23:07 AM



#20
Methylene Chloride
Concen: 21.936 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion: 84 Resp: 59119
Ion Ratio Lower Upper
84 100
49 119.5 96.8 145.2
51 33.2 31.8 47.6
86 56.3 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 25.961 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

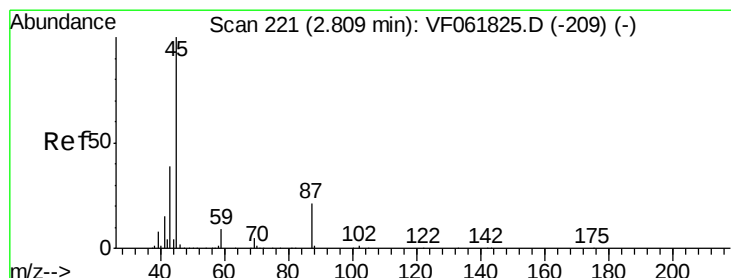
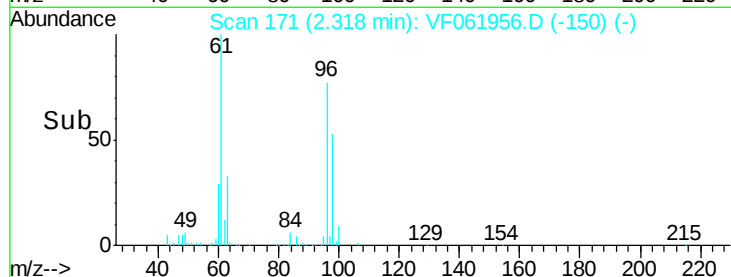
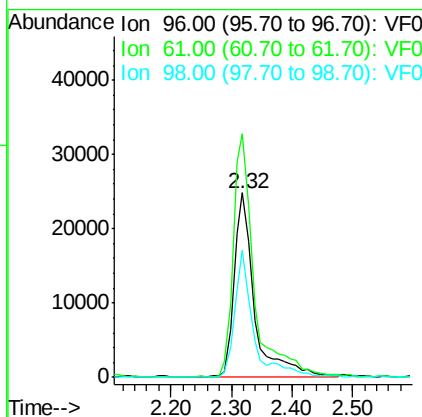
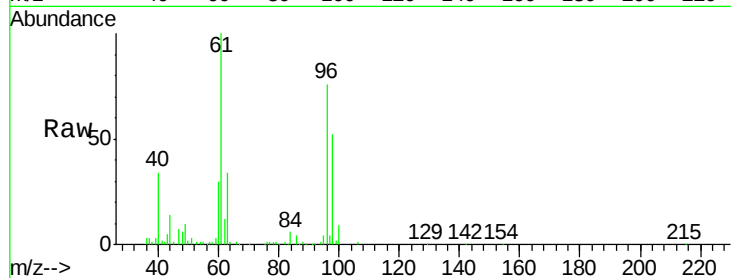
ClientSampleId :

VF0315SBS01

Tot Ion:	96	Resp:	58571
Ion	Ratio	Lower	Upper
96	100		
61	132.0	101.0	151.6
98	68.7	48.8	73.2

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#22

Diisopropyl ether

Concen: 24.136 ug/l

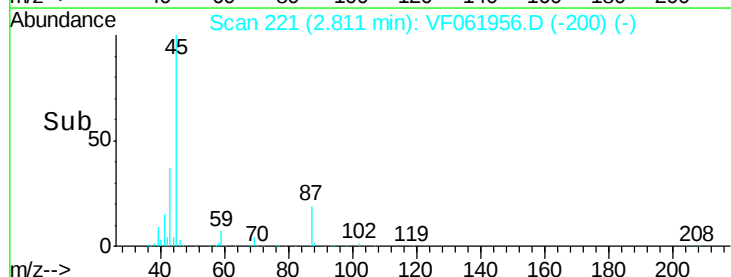
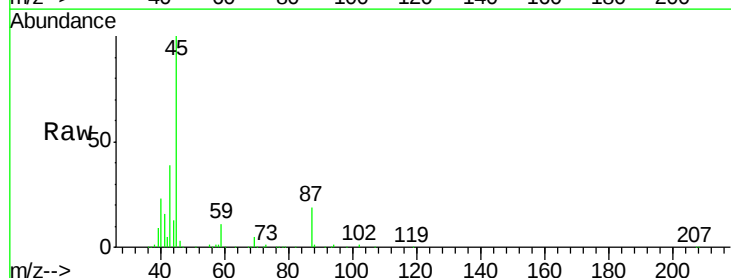
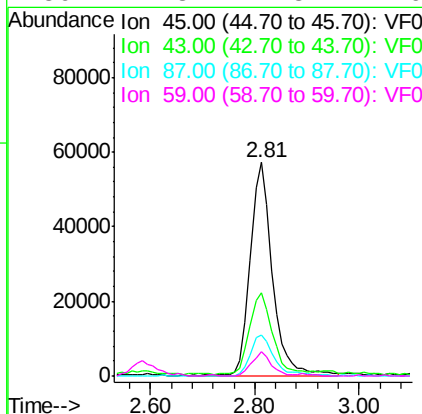
RT: 2.81 min Scan# 221

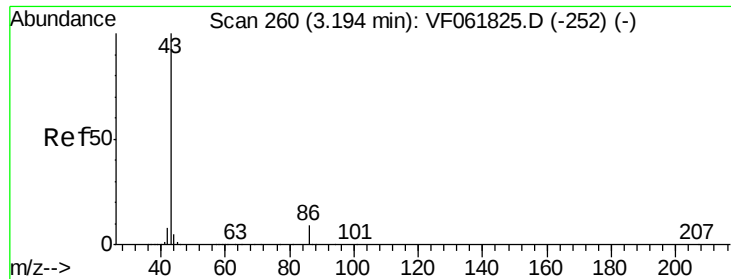
Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	45	Resp:	165802
Ion	Ratio	Lower	Upper
45	100		
43	39.0	31.8	47.8
87	18.9	17.1	25.7
59	11.3	7.8	11.6





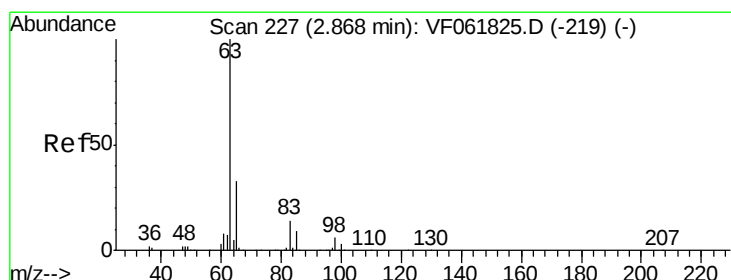
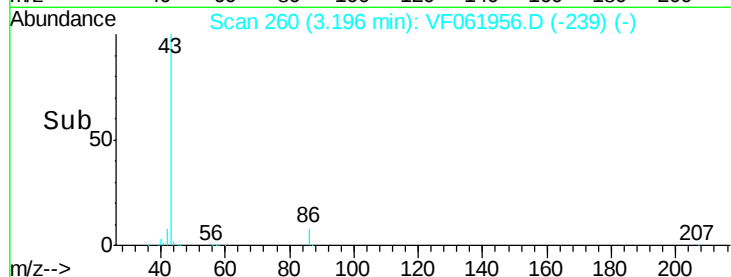
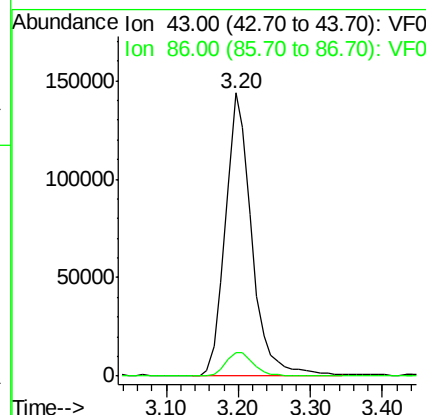
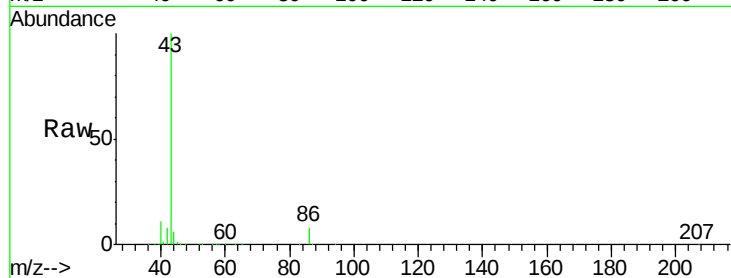
#23
 Vinyl Acetate
 Concen: 117.721 ug/l
 RT: 3.20 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	8.3	7.0	10.4

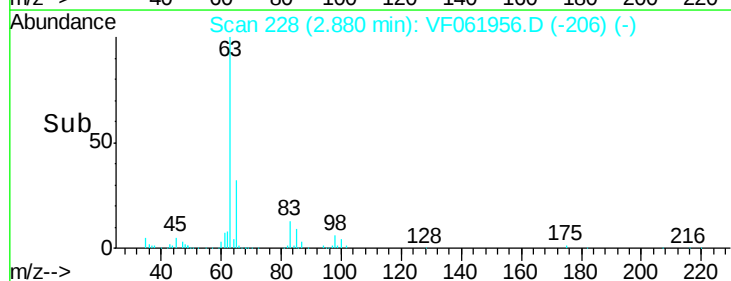
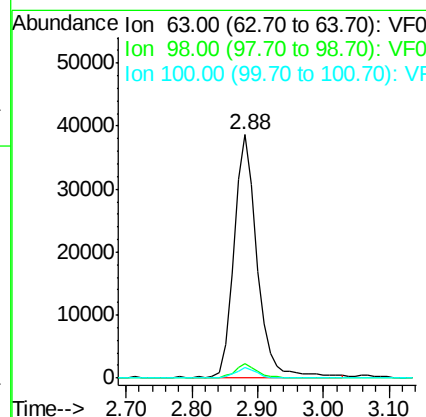
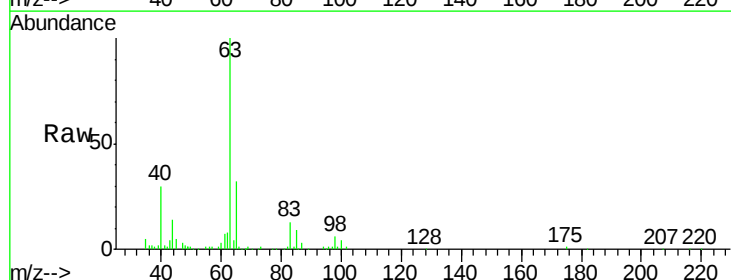
Manual Integrations
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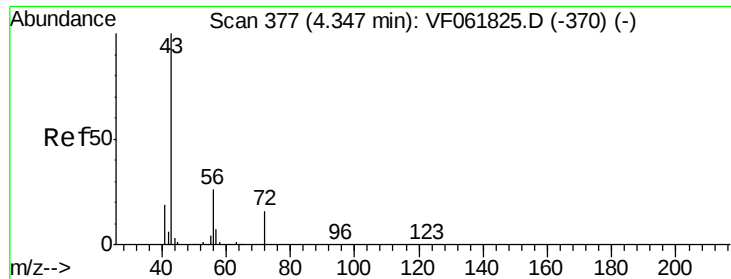
MMDadoda
 3/17/2019 5:23:07 AM



#24
 1,1-Dichloroethane
 Concen: 23.436 ug/l
 RT: 2.88 min Scan# 228
 Delta R.T. 0.01 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.9	2.9	8.6
100	4.3	1.8	5.3





#25

2-Butanone

Concen: 119.053 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 43 Resp: 103543

Ion Ratio Lower Upper

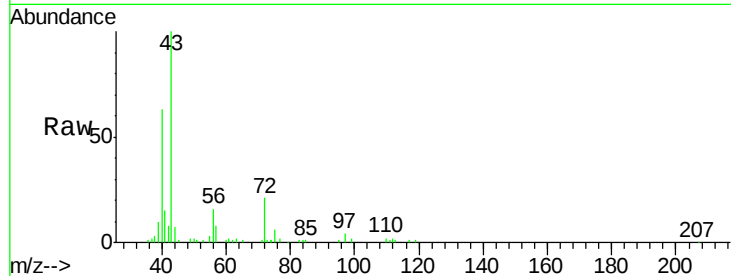
43 100

72 21.5 16.2 24.4

Manual Integrations
APPROVED

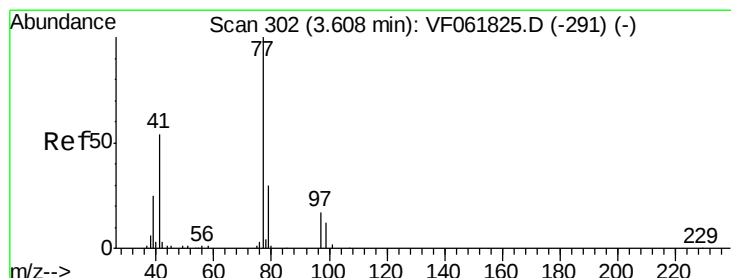
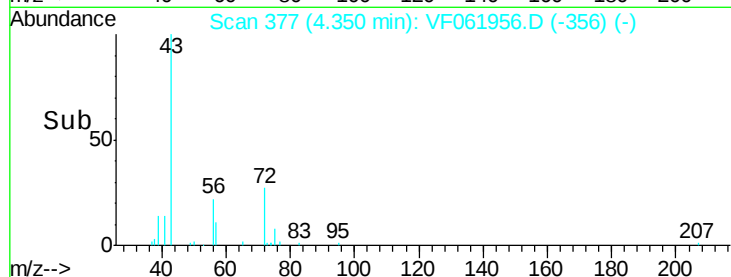
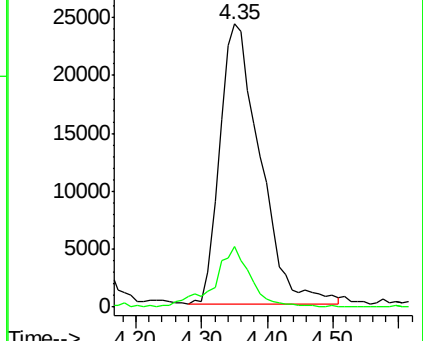
MMDadoda

3/17/2019 5:23:07 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 24.004 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.00 min

Lab File: VF061956.D

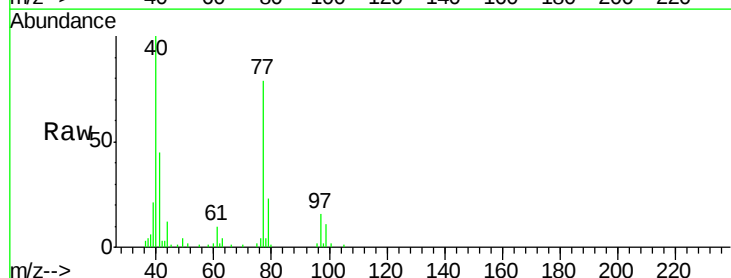
Acq: 15 Mar 2019 12:50

Tgt Ion: 77 Resp: 43998

Ion Ratio Lower Upper

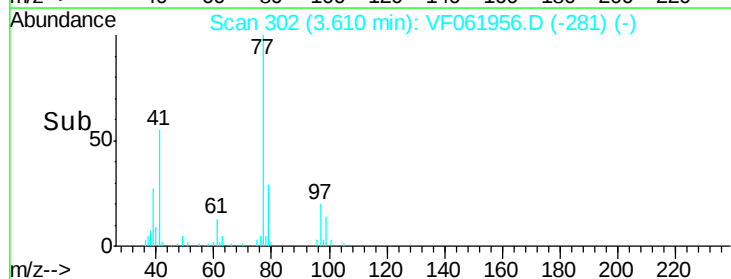
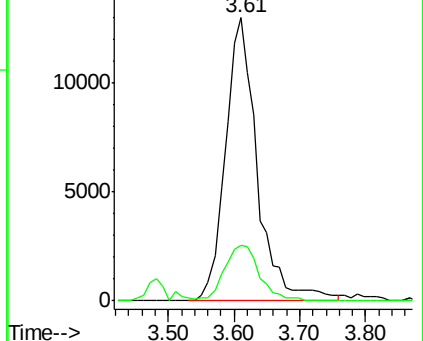
77 100

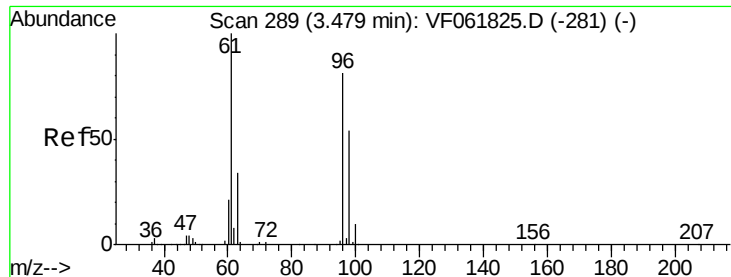
97 19.8 10.4 31.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

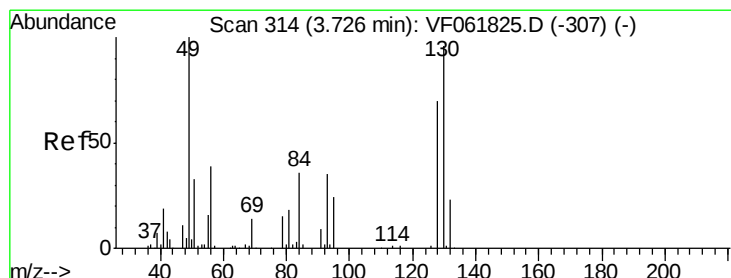
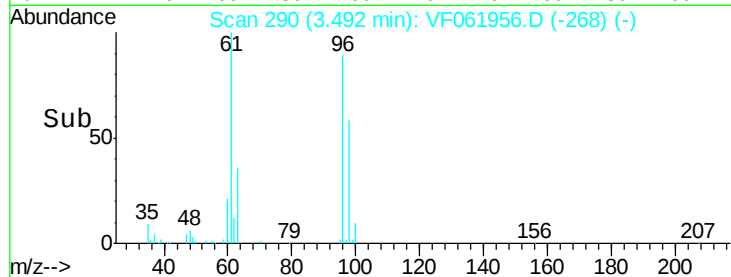
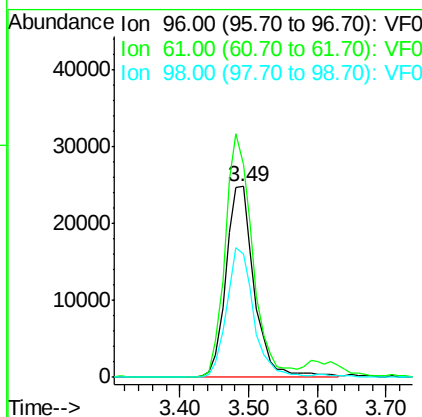
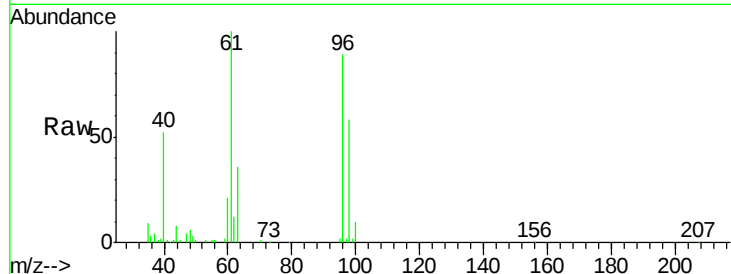
cis-1,2-Dichloroethene
 Concen: 22.603 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.01 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	112.1	0.0	245.8
98	64.5	0.0	132.6

Manual Integrations
 APPROVED

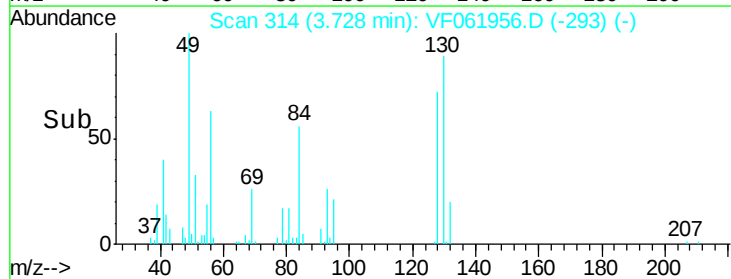
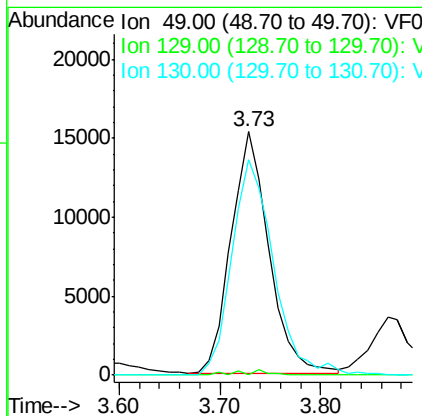
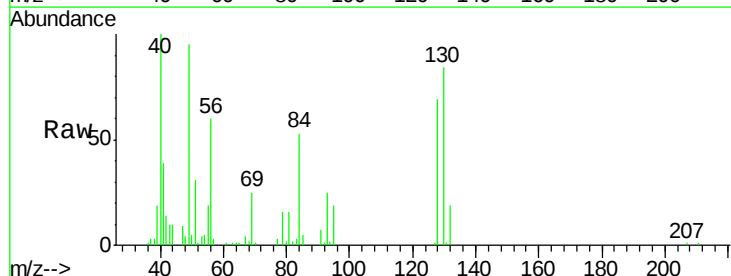
MMDadoda
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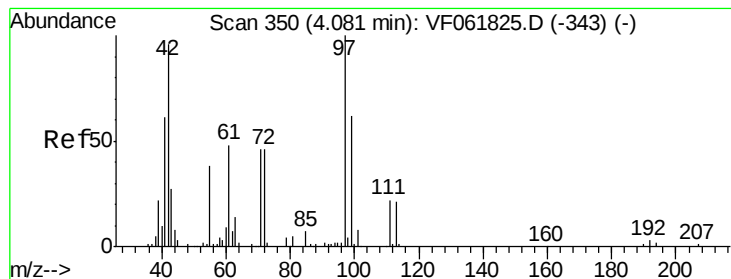


#28

Bromochloromethane
 Concen: 22.363 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	88.7	76.9	115.3





#29

Tetrahydrofuran

Concen: 113.428 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

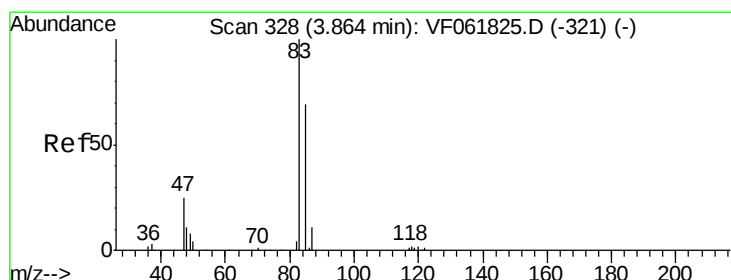
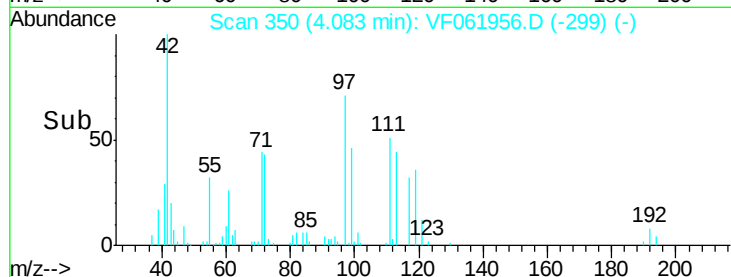
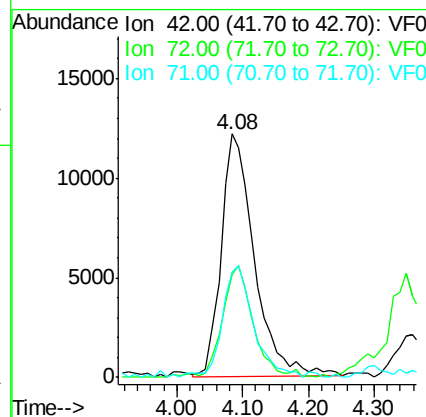
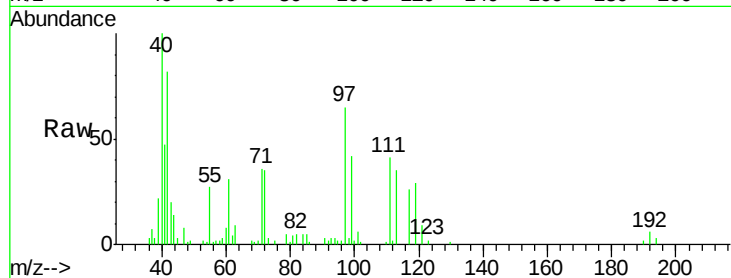
ClientSampleId :

VF0315SBS01

Tot Ion:	42	Resp:	42545
Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.4	51.6
71	43.6	34.6	52.0

Manual Integrations
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#30

Chloroform

Concen: 23.243 ug/l

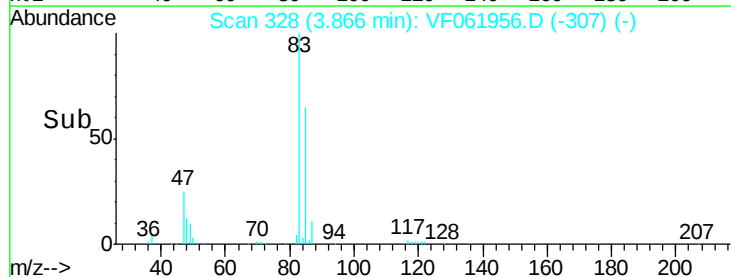
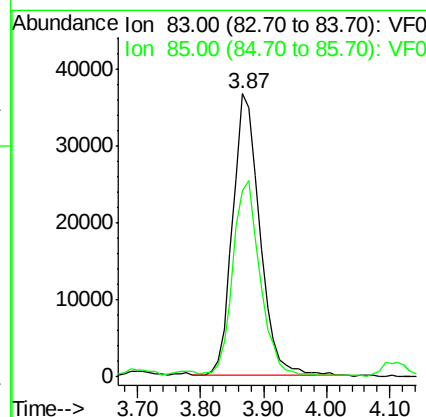
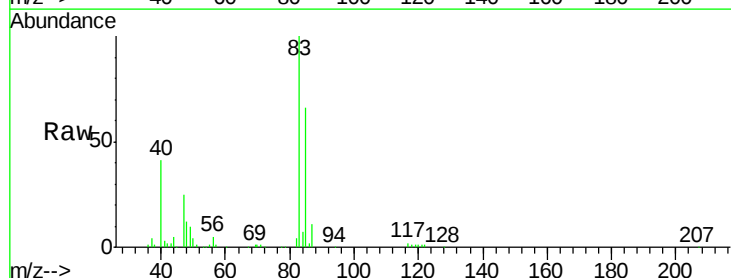
RT: 3.87 min Scan# 328

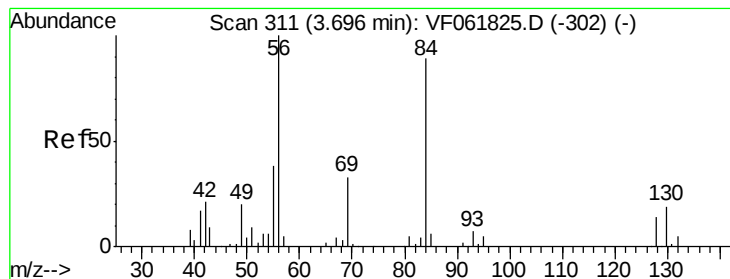
Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	83	Resp:	109007
Ion	Ratio	Lower	Upper
83	100		
85	65.6	55.3	82.9





#31

Cyclohexane

Concen: 23.505 ug/l m

RT: 3.70 min Scan# 311

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

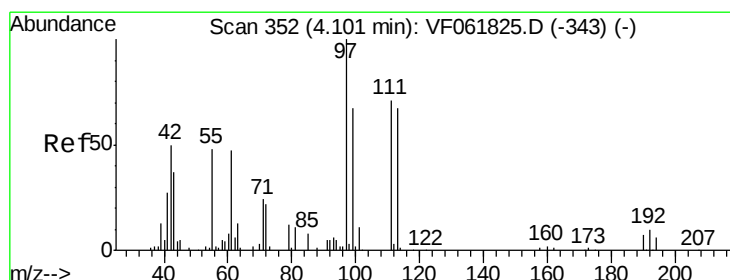
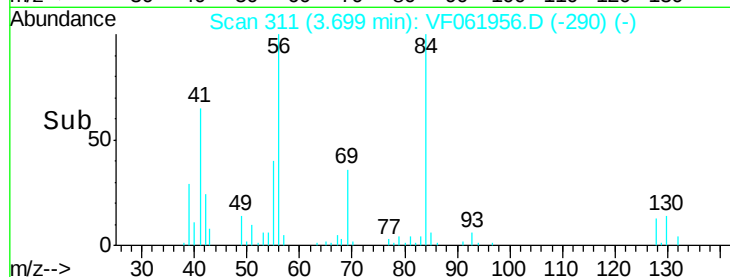
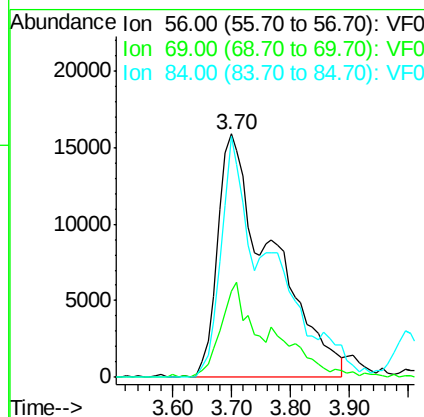
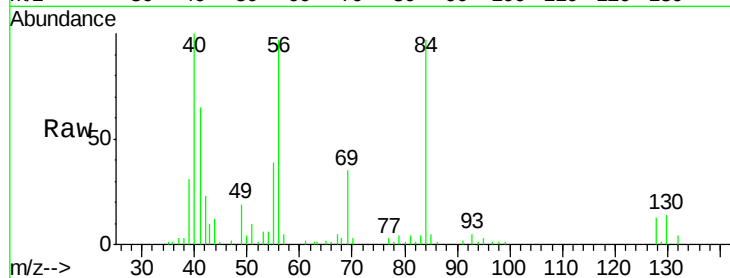
ClientSampleId :

VF0315SBS01

Tot Ion:	56	Resp:	101089
Ion Ratio	Lower	Upper	
56	100		
69	35.5	26.0	39.0
84	99.2	71.0	106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 23.641 ug/l

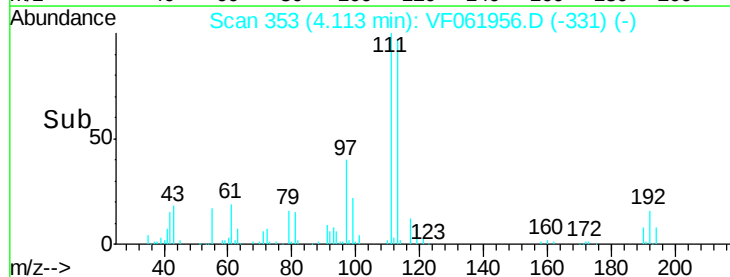
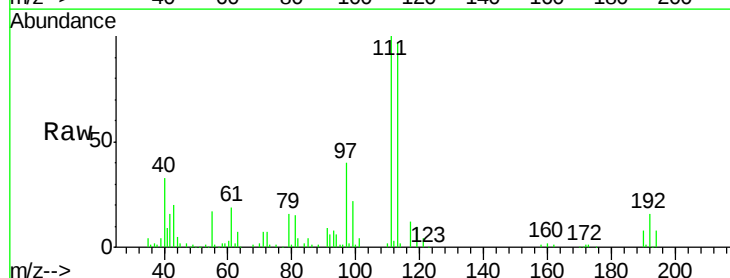
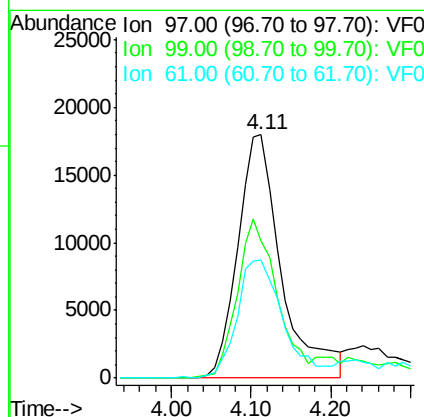
RT: 4.11 min Scan# 353

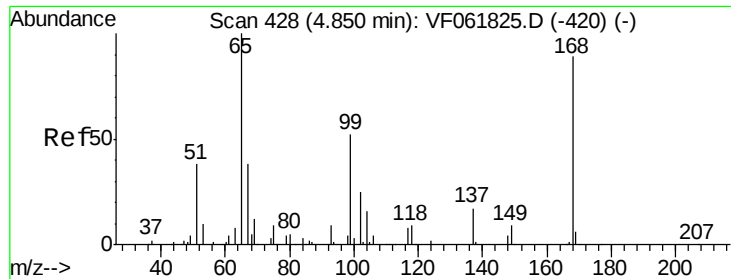
Delta R.T. 0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	97	Resp:	68342
Ion Ratio	Lower	Upper	
97	100		
99	56.3	53.8	80.8
61	48.4	37.9	56.9





#33

1,2-Dichloroethane-d4

Concen: 58.926 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tot Ion: 65 Resp: 120279

Ion Ratio Lower Upper

65 100

67 58.1 0.0 108.6

Instrument :

MSVOA_F

ClientSampleId :

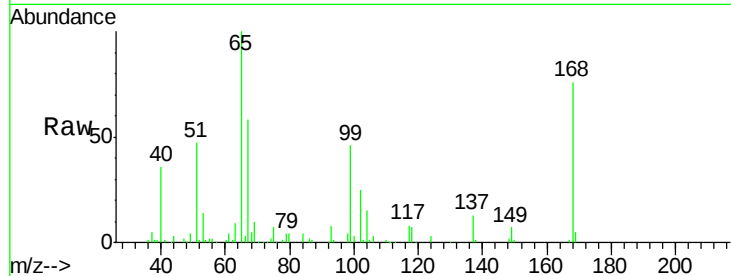
VF0315SBS01

Manual Integrations

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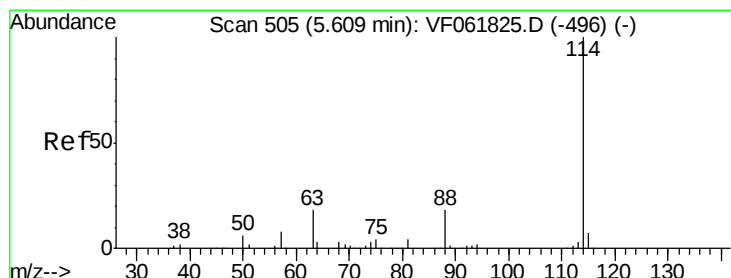
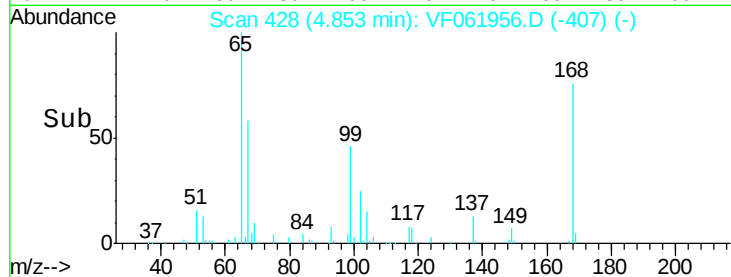
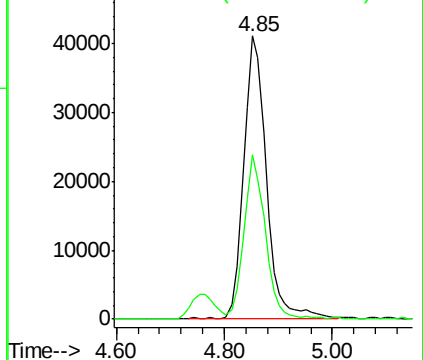
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

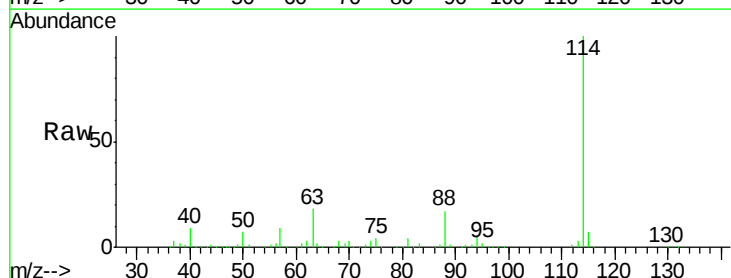
Tgt Ion: 114 Resp: 417036

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

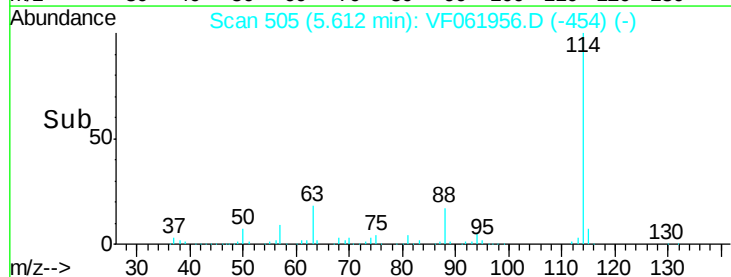
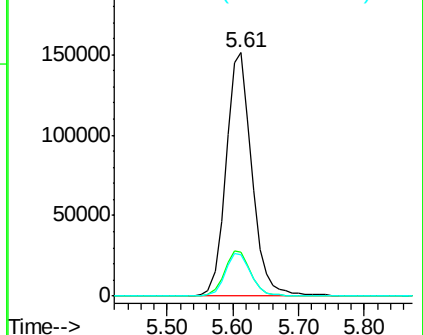
88 17.1 0.0 35.6

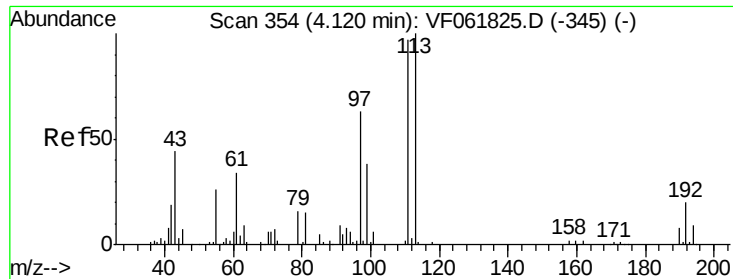


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 57.661 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

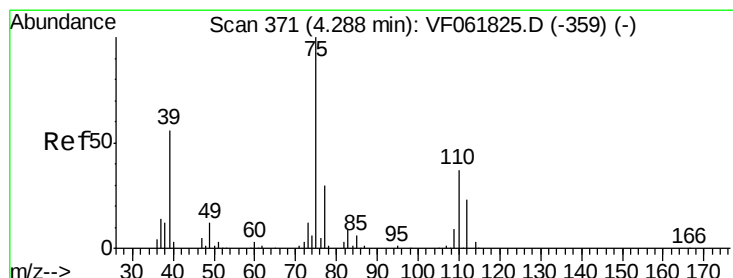
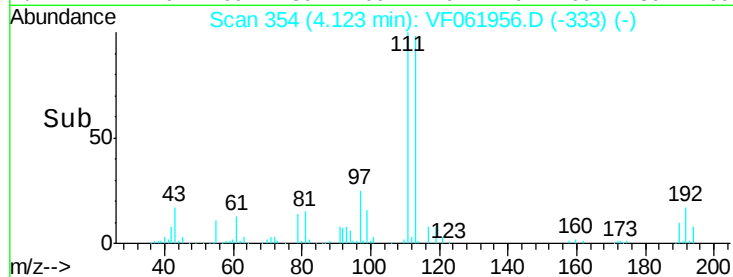
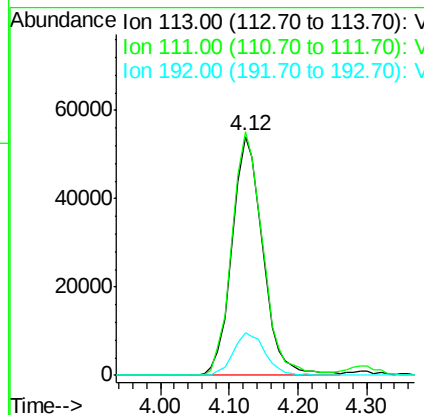
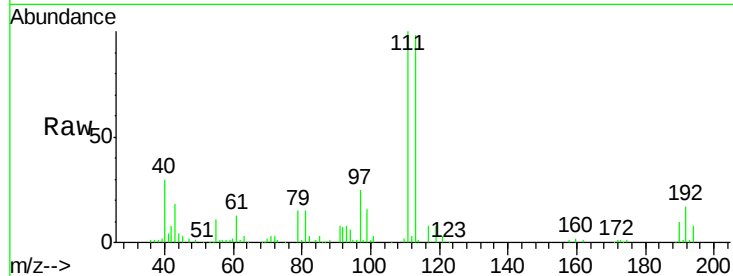
ClientSampleId :

VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	167815		
111	102.1	77.6	116.4	
192	17.8	15.9	23.9	

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 22.117 ug/l

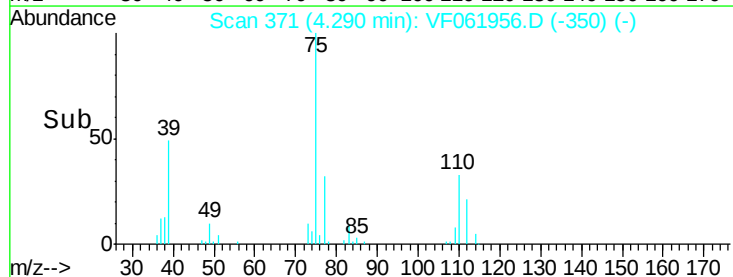
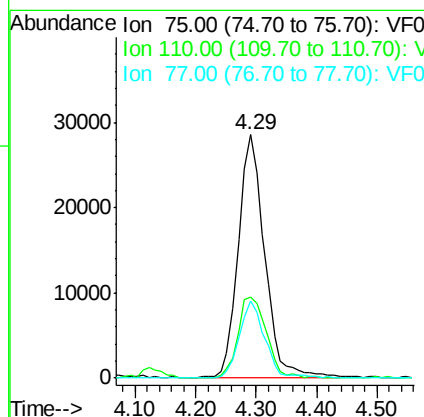
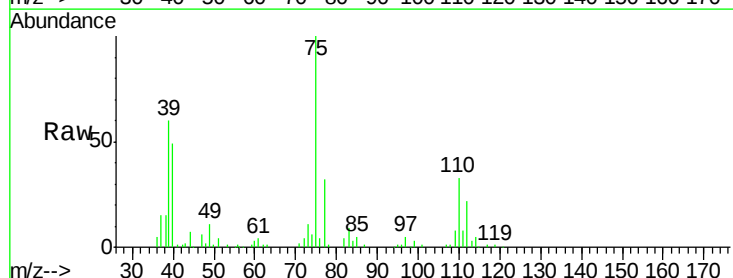
RT: 4.29 min Scan# 371

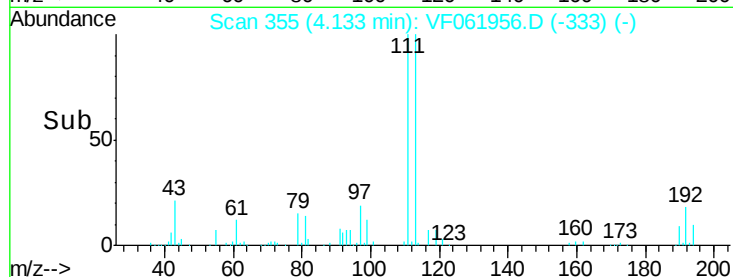
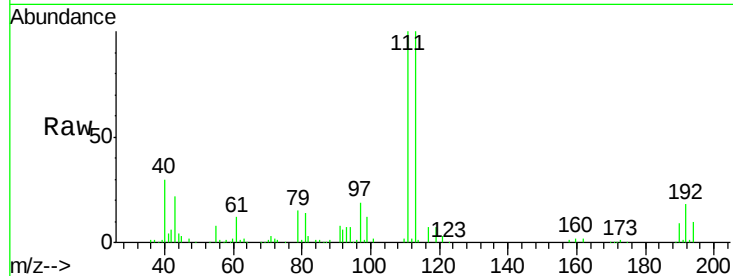
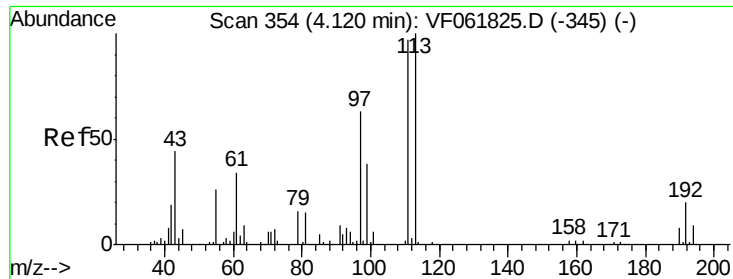
Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	87129		
110	33.0	18.6	55.6	
77	31.5	24.2	36.2	





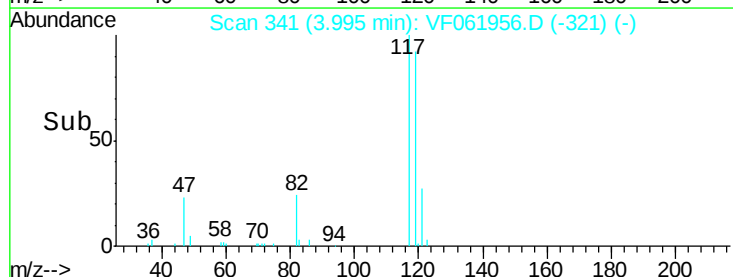
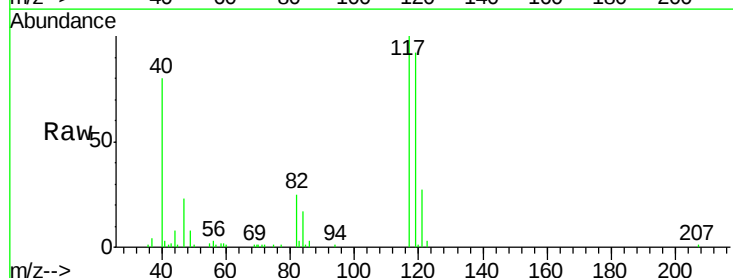
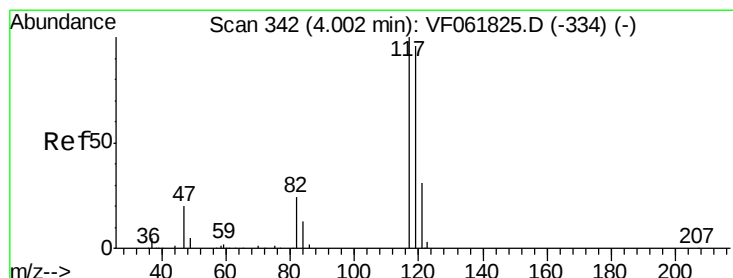
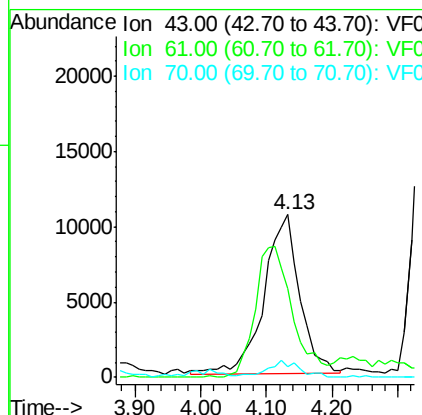
#37
Ethyl Acetate
Concen: 24.226 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tot Ion	43	61	70
Ratio	100	54.5	6.8
Lower		60.7	10.6
Upper		91.1#	15.8#

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

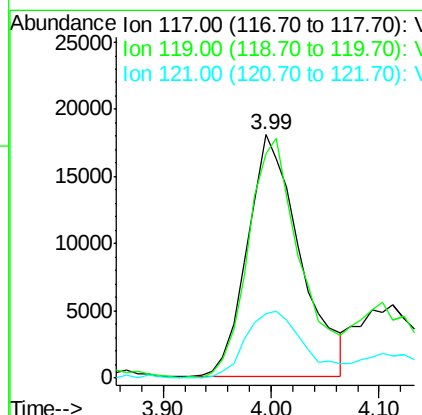
Manual Integrations
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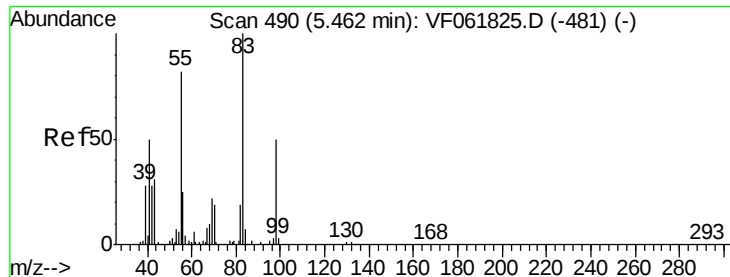
MMDadoda
3/17/2019 5:23:07 AM



#38
Carbon Tetrachloride
Concen: 21.997 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	117	119	121
Ratio	100	92.0	26.7
Lower		76.6	24.4
Upper		114.8	36.6





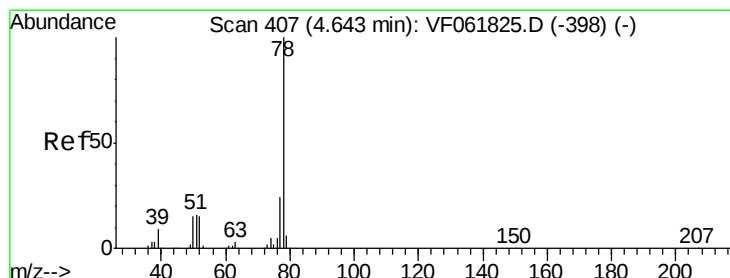
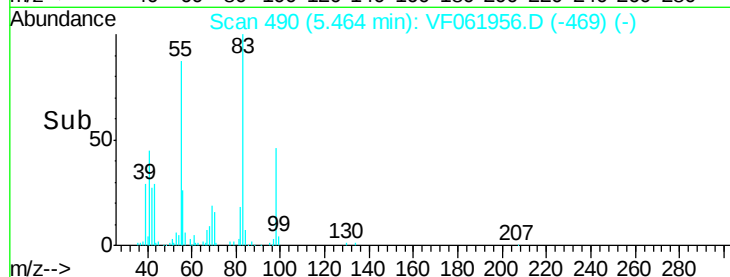
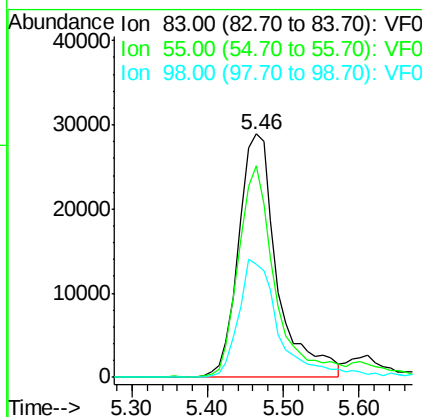
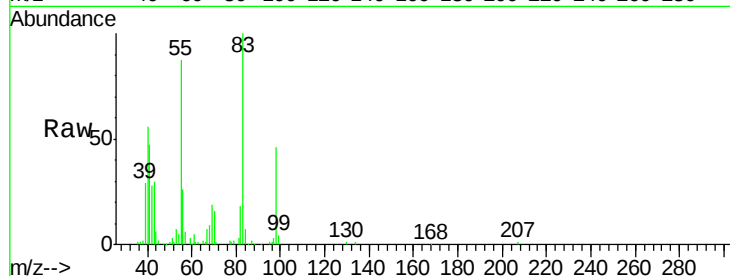
#39
Methvlcvclohexane
Concen: 22.169 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.7	66.0	99.0
98	46.3	39.8	59.6

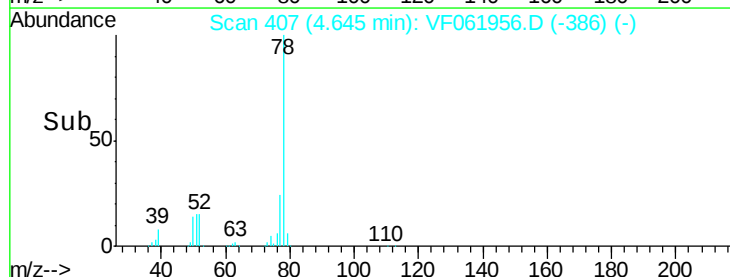
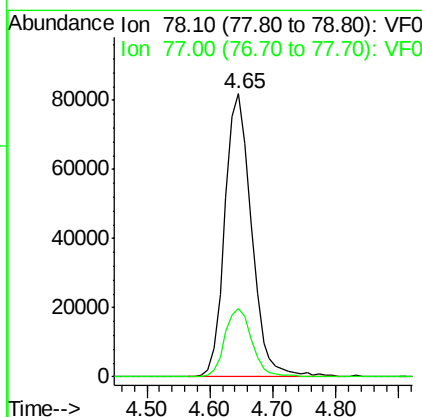
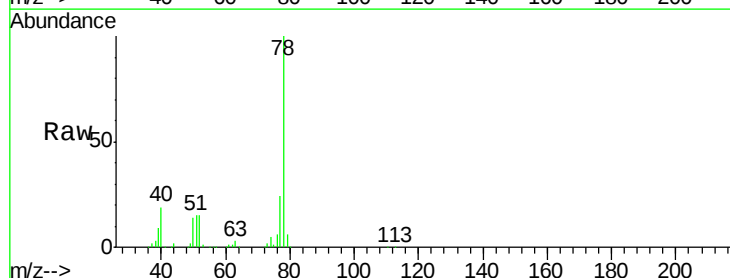
Manual Integrations
APPROVED

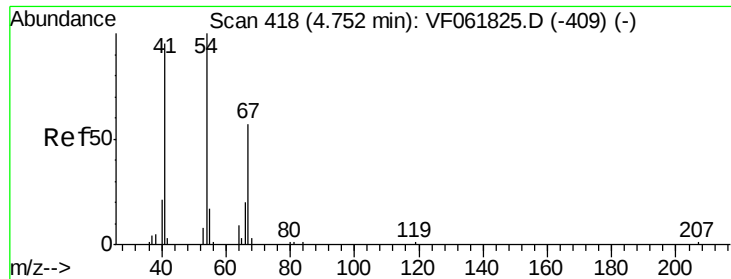
MMDadoda
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#40
Benzene
Concen: 23.416 ug/l
RT: 4.65 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.5	29.3





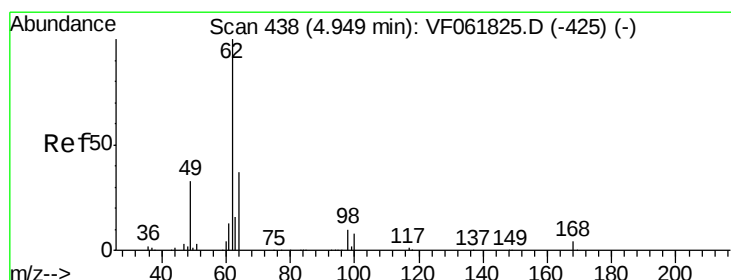
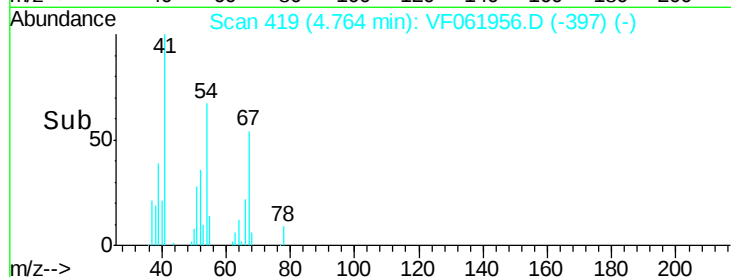
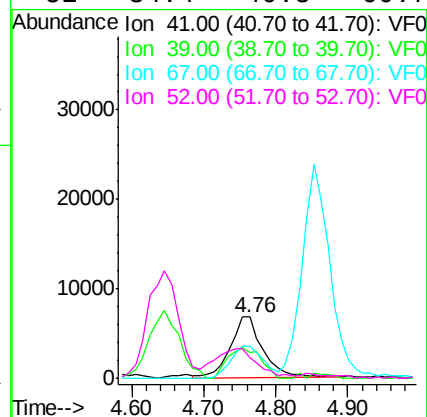
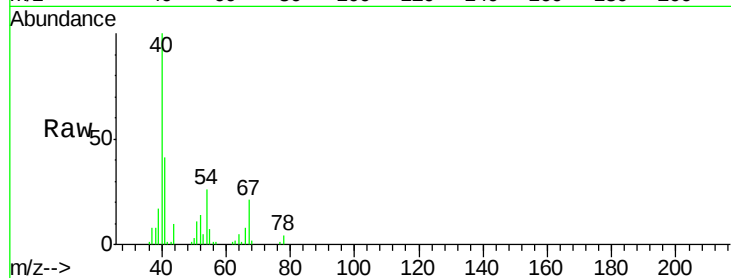
#41
Methacrylonitrile
Concen: 23.351 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	42.4	43.0	64.6#
67	51.7	47.8	71.8
52	34.4	40.5	60.7#

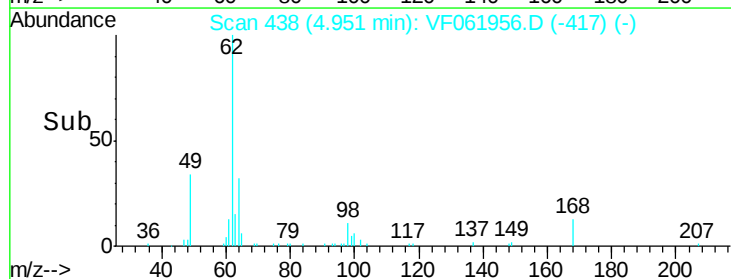
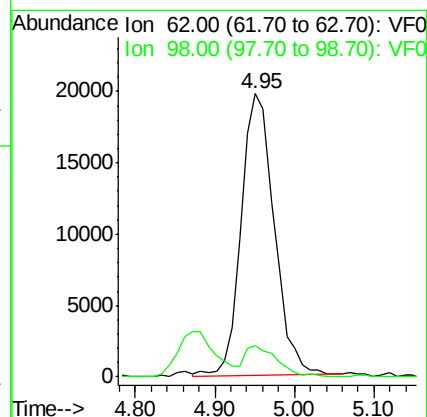
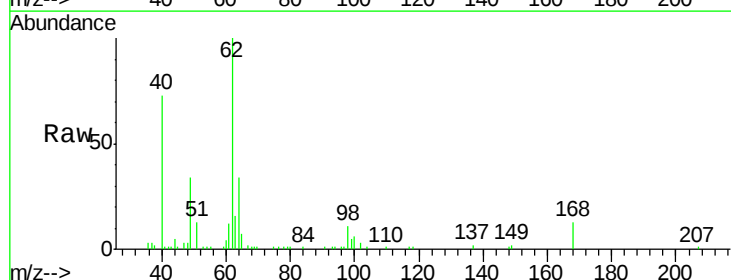
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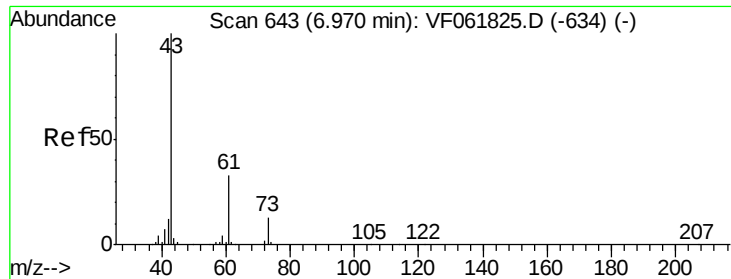
MMDadoda
3/17/2019 5:23:07 AM



#42
1,2-Dichloroethane
Concen: 22.136 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.0





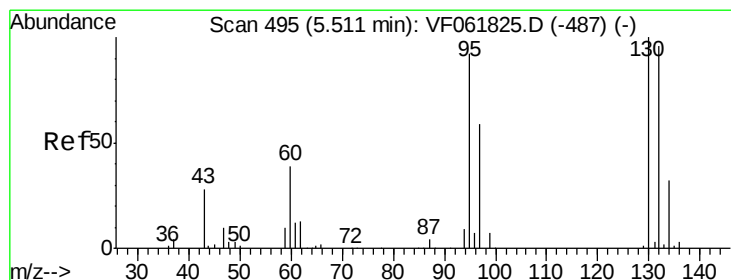
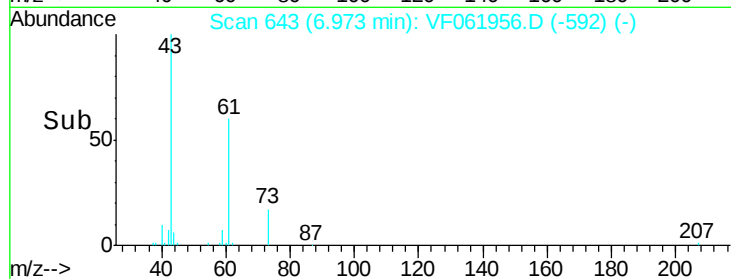
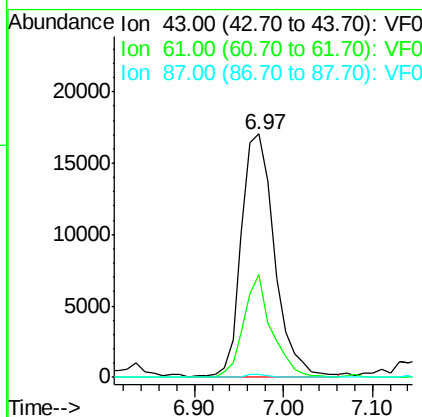
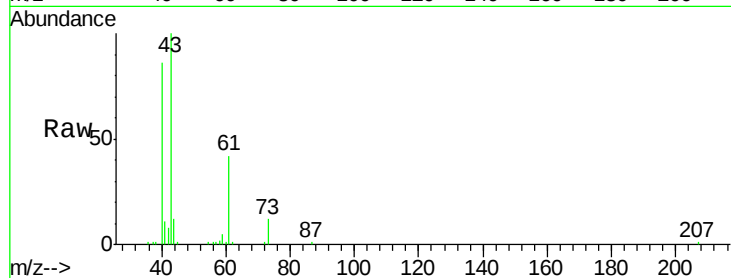
#43
Isopropyl Acetate
Concen: 21.698 ug/l
RT: 6.97 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	42.0	26.1	39.1#
87	1.2	0.0	0.0#

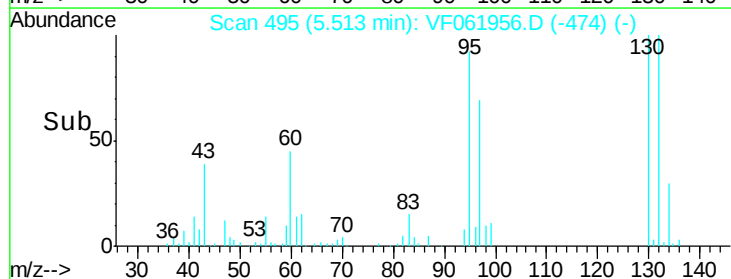
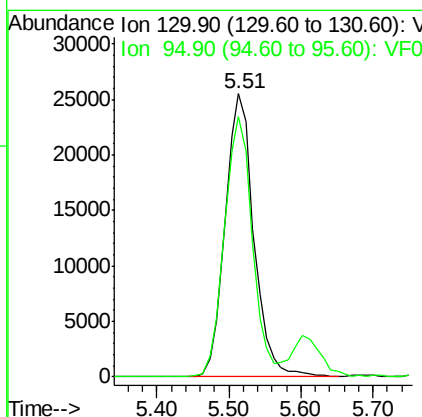
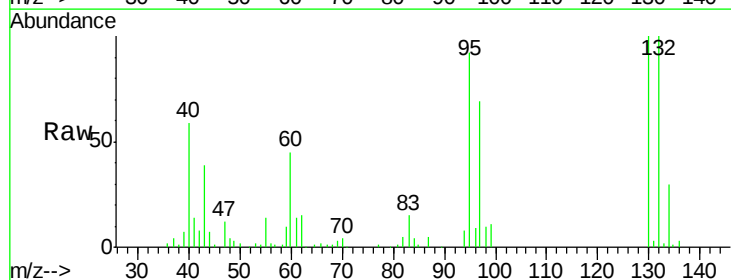
Manual Integrations
APPROVED

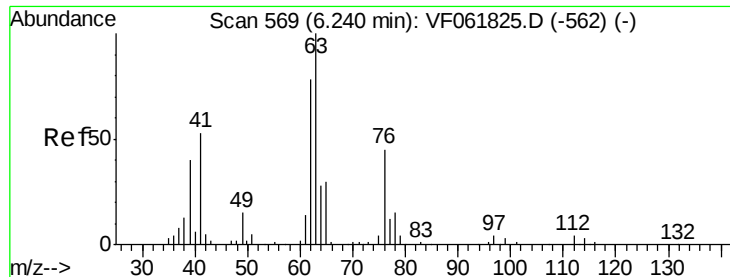
MMDadoda
3/17/2019 5:23:07 AM



#44
Trichloroethene
Concen: 22.056 ug/l
RT: 5.51 min Scan# 495
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	184.0





#45

1,2-Dichloropropane

Concen: 23.775 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 63 Resp: 58215

Ion Ratio Lower Upper

63 100

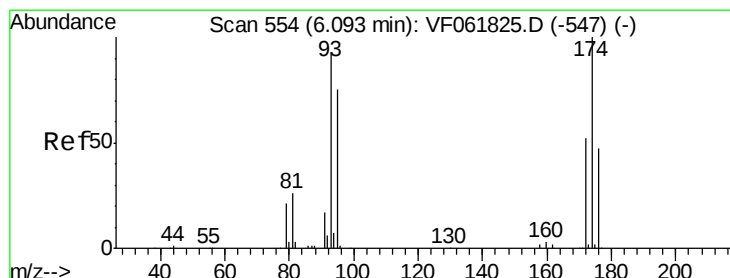
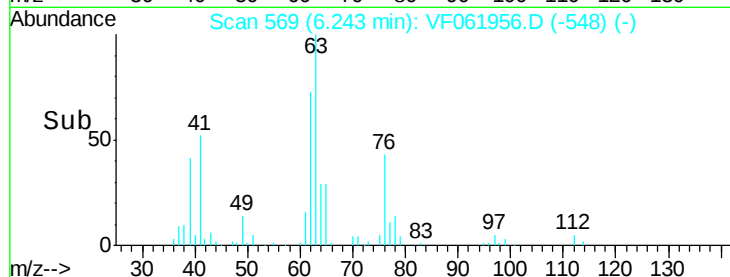
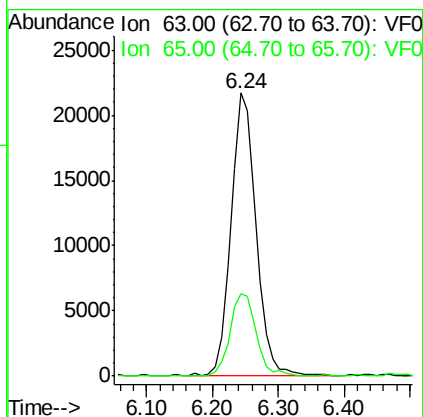
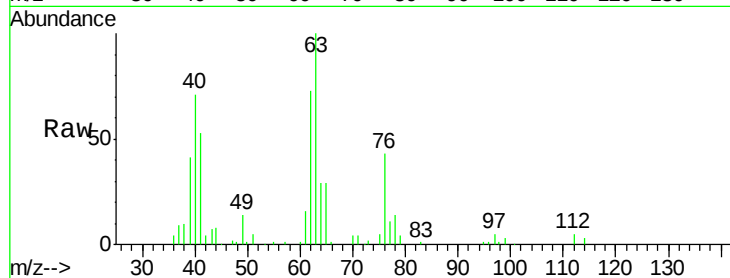
65 29.3 24.0 36.0

Manual Integrations

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#46

Dibromomethane

Concen: 21.579 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

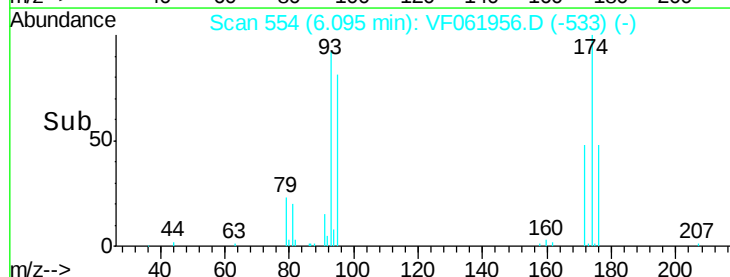
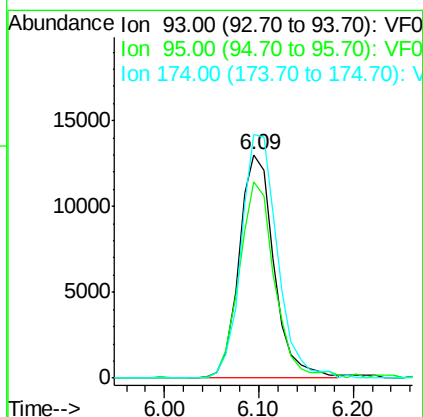
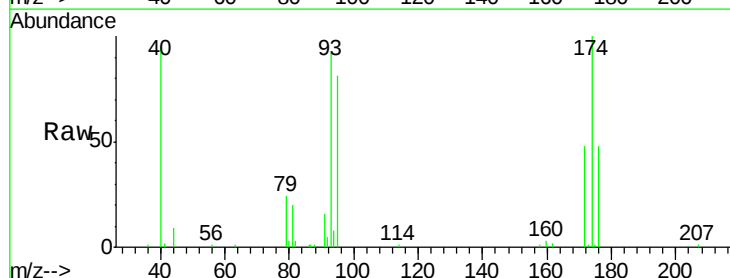
Tgt Ion: 93 Resp: 33254

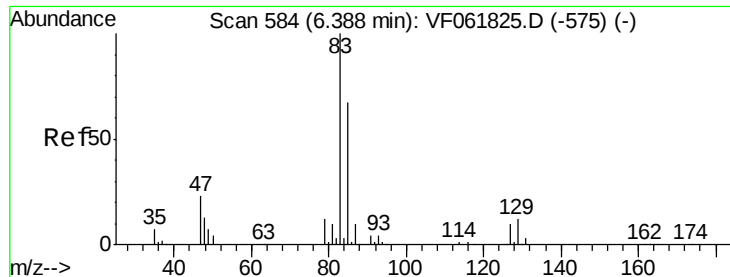
Ion Ratio Lower Upper

93 100

95 88.1 64.4 96.6

174 109.0 85.8 128.6





#47

Bromodichloromethane

Concen: 21.985 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

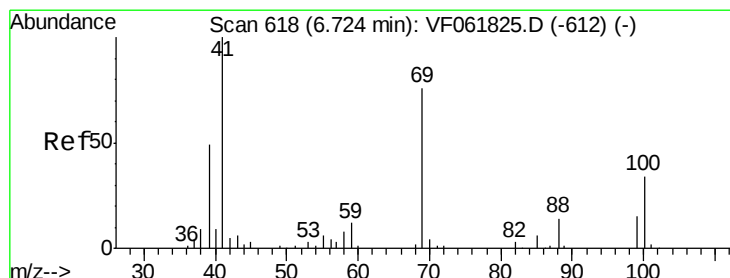
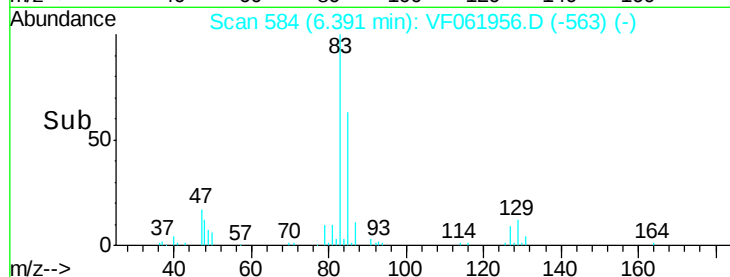
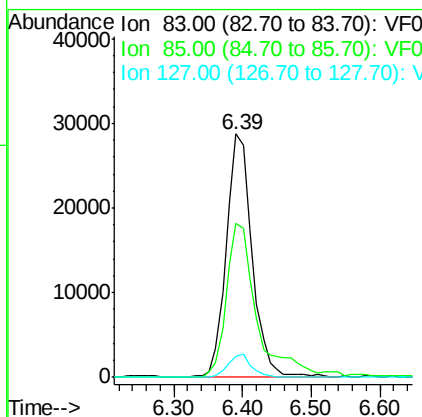
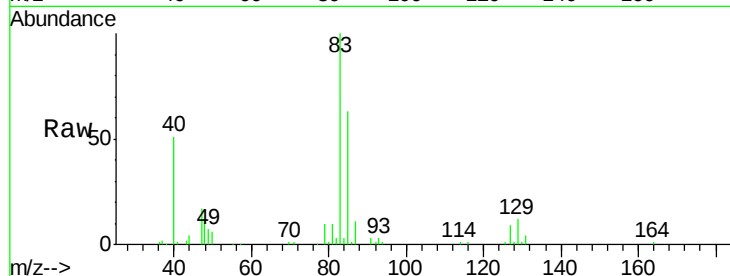
ClientSampleId :

VF0315SBS01

Tot Ion:	83	Resp:	74850
Ion	Ratio	Lower	Upper
83	100		
85	63.4	53.6	80.4
127	8.6	8.1	12.1

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#48

Methyl methacrylate

Concen: 22.813 ug/l

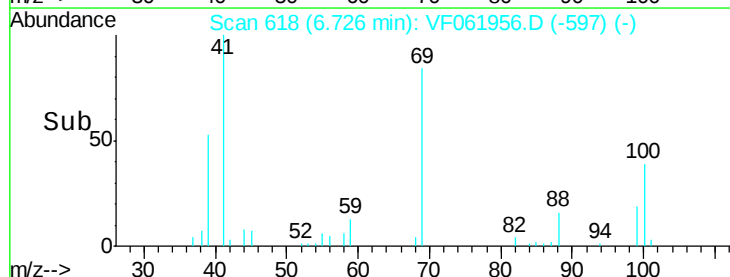
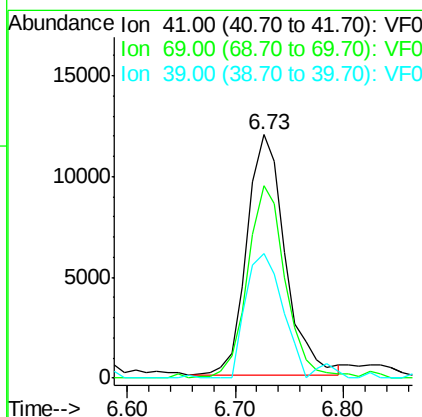
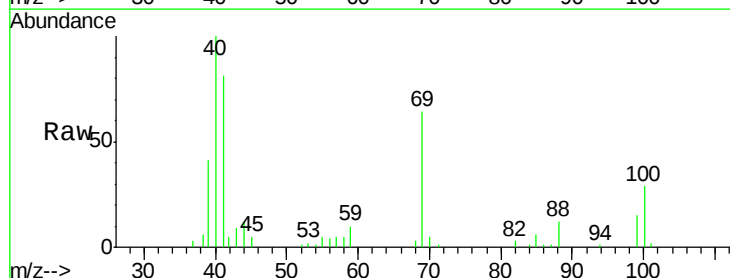
RT: 6.73 min Scan# 618

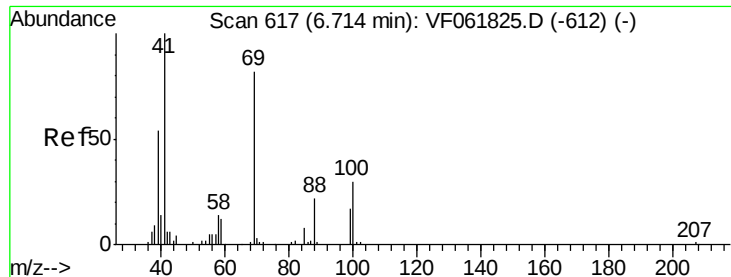
Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	41	Resp:	29427
Ion	Ratio	Lower	Upper
41	100		
69	79.3	60.4	90.6
39	51.1	39.7	59.5





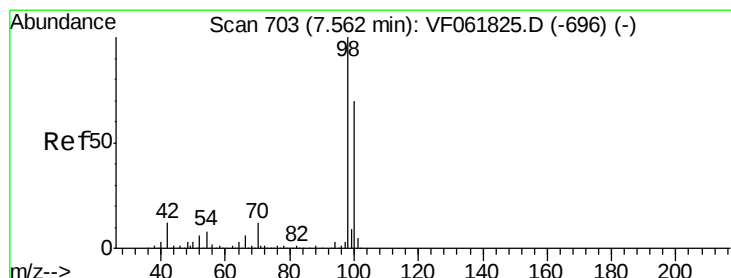
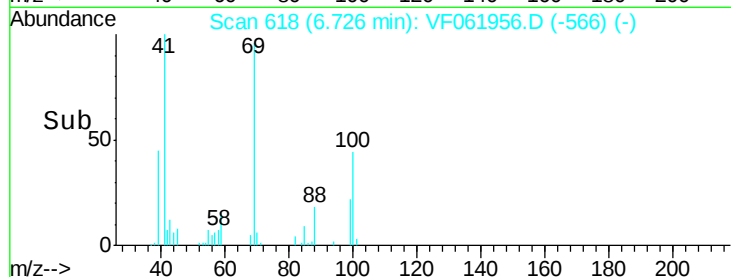
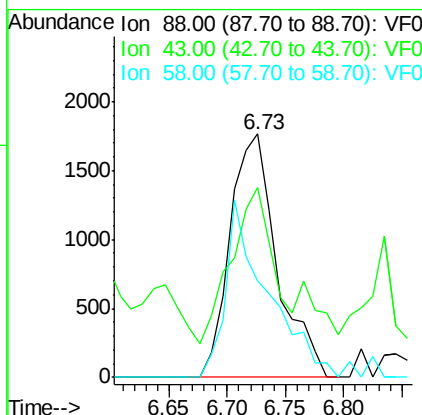
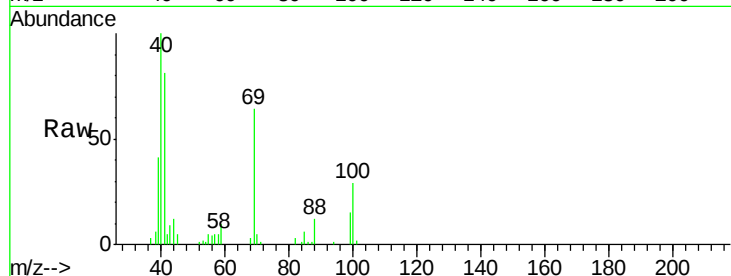
#49
1,4-Dioxane
Concen: 418.426 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	77.8	28.4	42.6#
58	39.4	50.7	76.1#

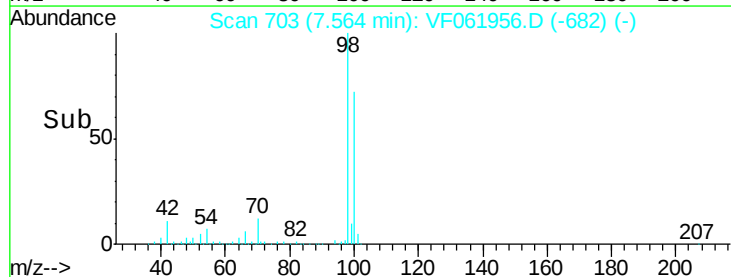
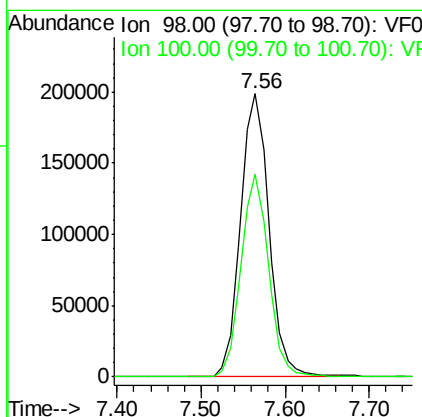
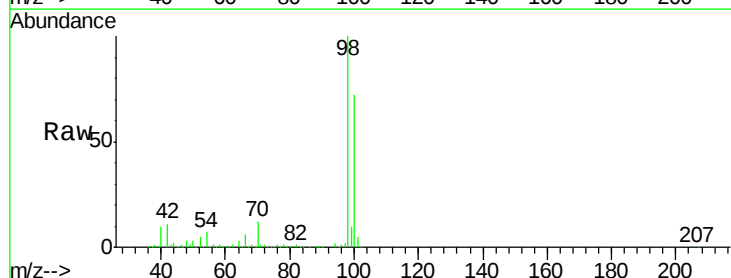
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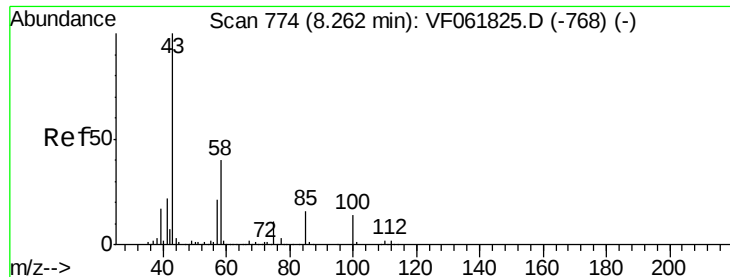
MMDadoda
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#50
Toluene-d8
Concen: 54.461 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.5	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 118.568 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 43 Resp: 167024

Ion Ratio Lower Upper

43 100

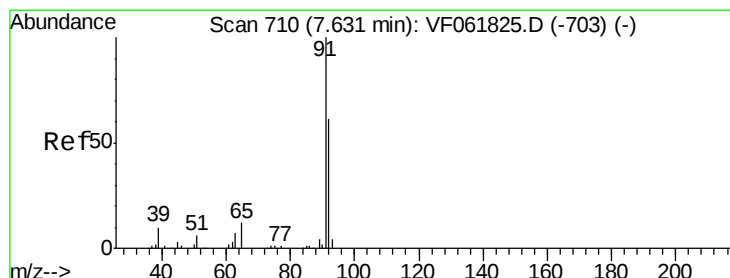
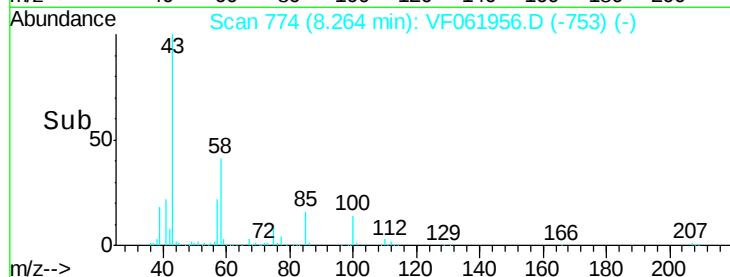
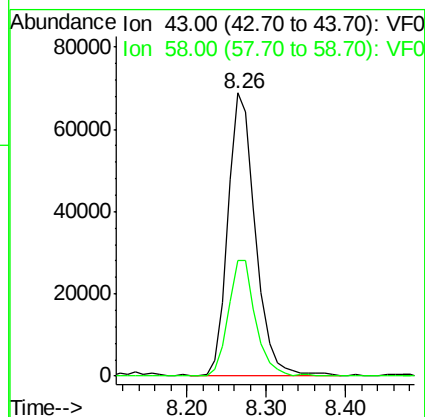
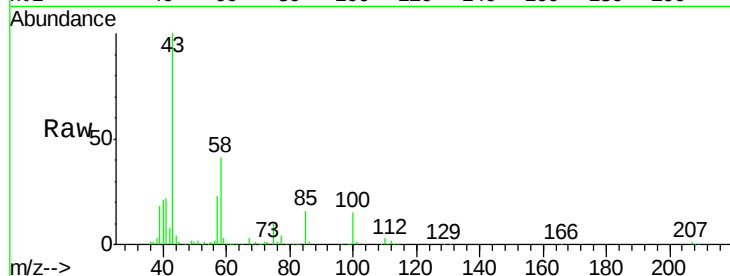
58 40.8 31.8 47.8

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#52

Toluene

Concen: 21.934 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061956.D

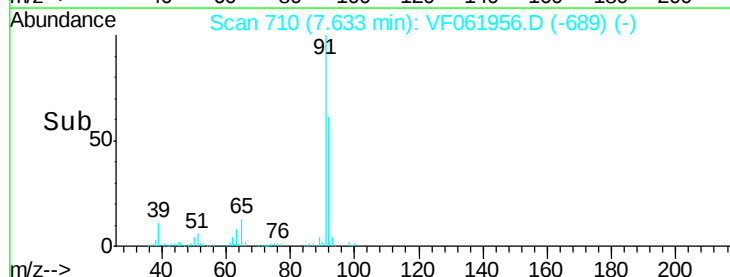
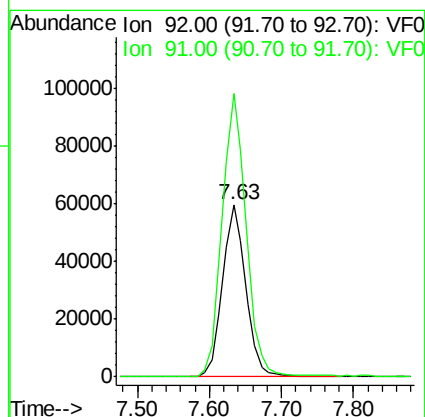
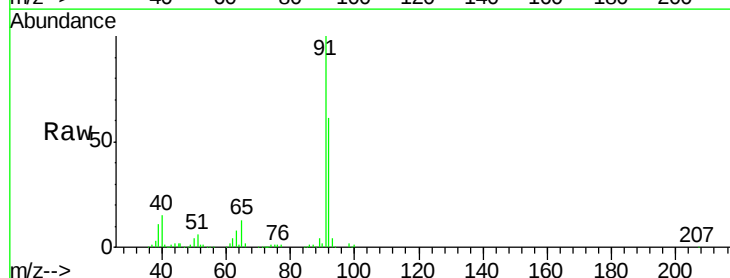
Acq: 15 Mar 2019 12:50

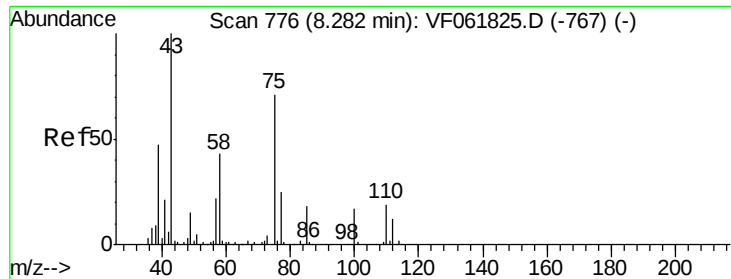
Tgt Ion: 92 Resp: 133611

Ion Ratio Lower Upper

92 100

91 164.1 132.0 198.0





#53

t-1,3-Dichloropropene

Concen: 22.482 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tot Ion: 75 Resp: 63180

Ion Ratio Lower Upper

75 100

77 33.9 28.0 42.0

Instrument :

MSVOA_F

ClientSampleId :

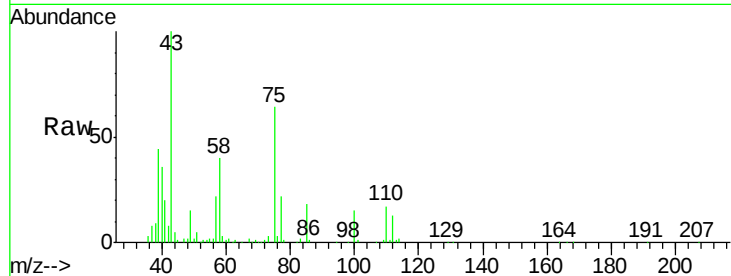
VF0315SBS01

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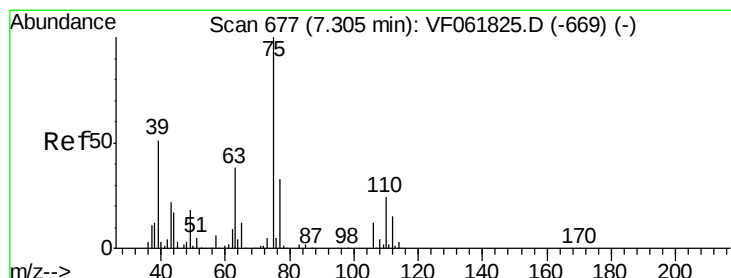
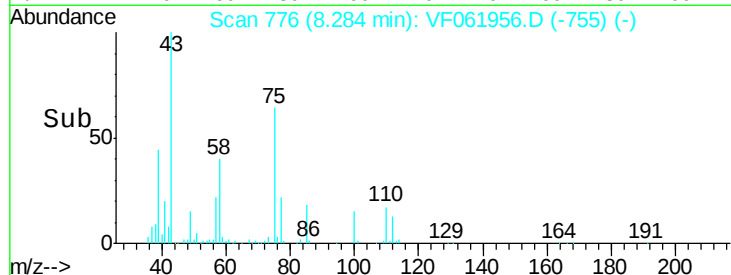
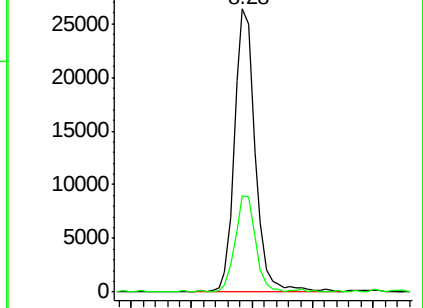
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 21.771 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

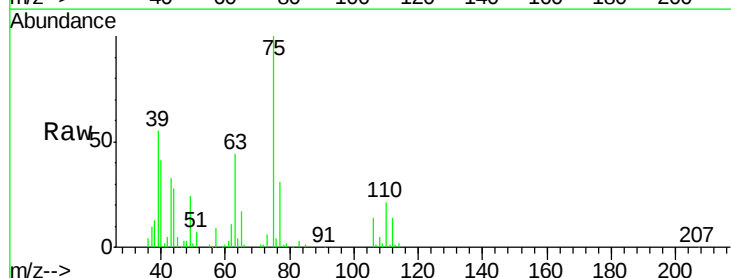
Tgt Ion: 75 Resp: 84391

Ion Ratio Lower Upper

75 100

77 30.9 26.3 39.5

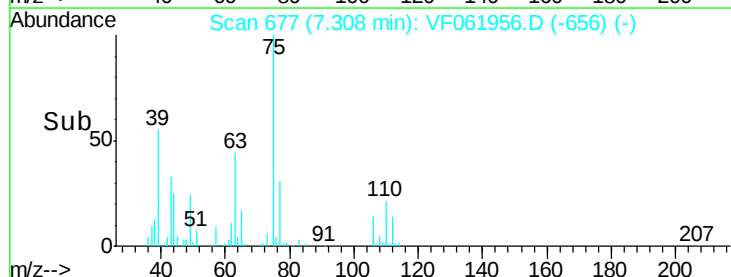
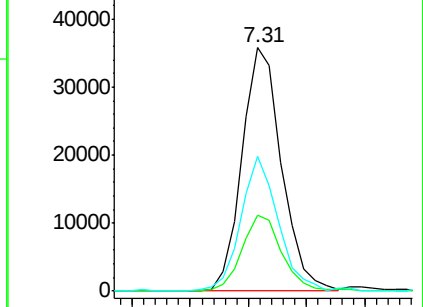
39 55.4 40.8 61.2

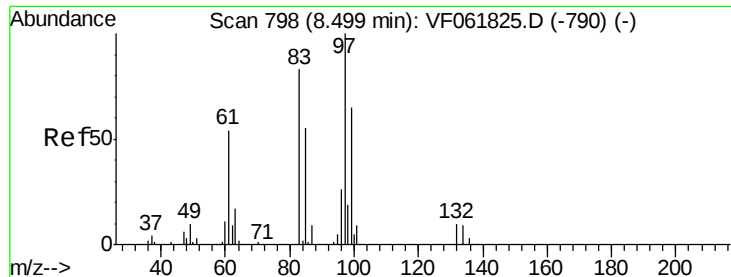


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





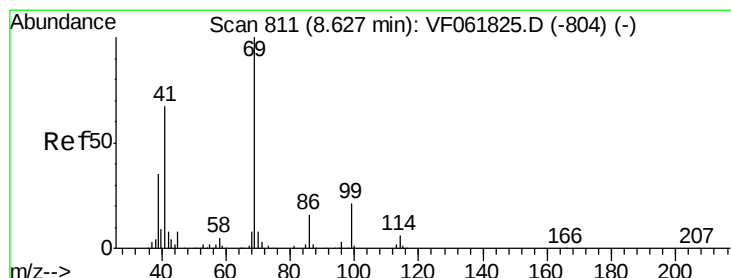
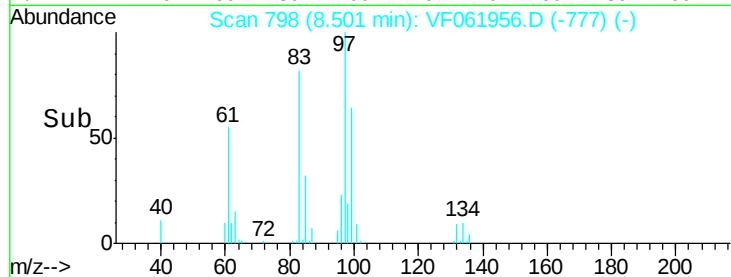
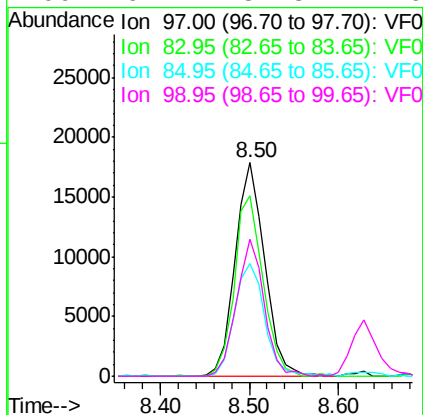
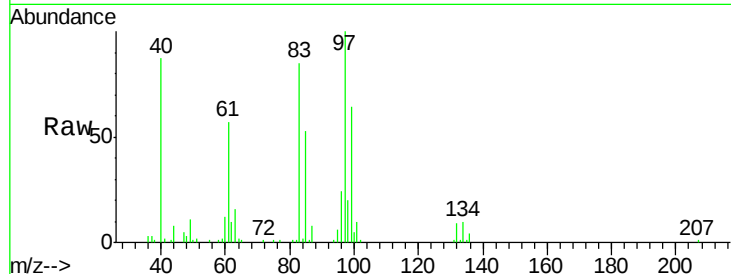
#55
 1,1,2-Trichloroethane
 Concen: 23.639 ug/l
 RT: 8.50 min Scan# 798
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		41490		
83	84.7	66.5	99.7		
85	53.0	44.2	66.2		
99	64.2	51.8	77.6		

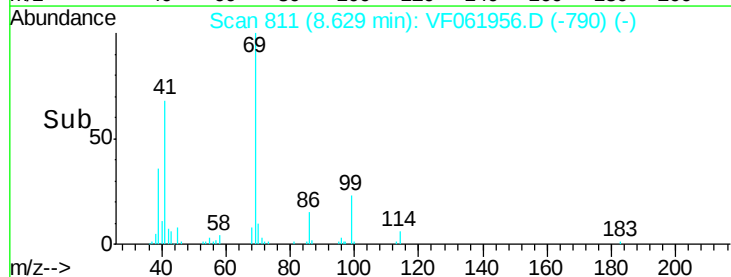
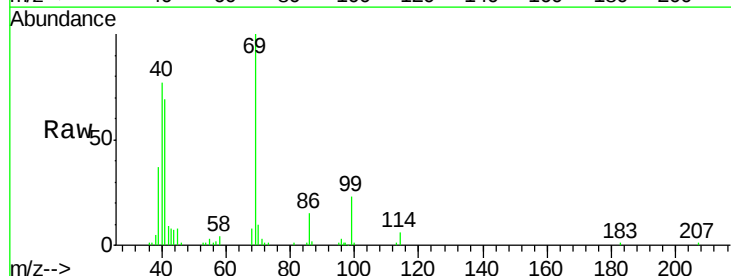
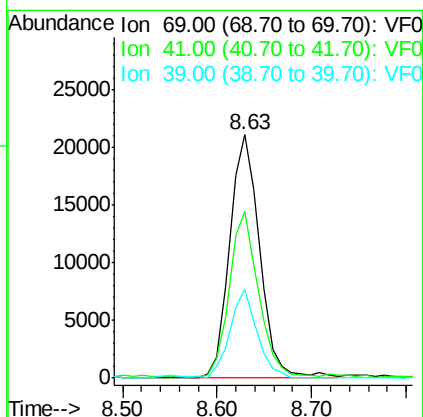
Manual Integrations
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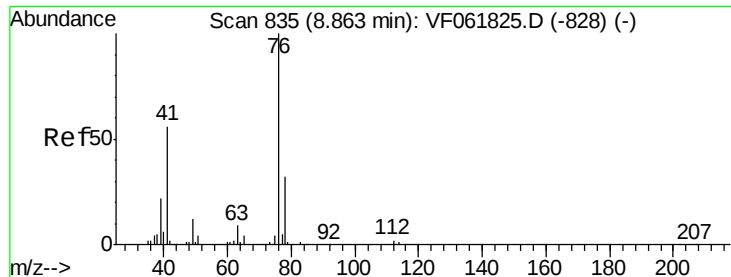
MMDadoda
 3/17/2019 5:23:07 AM



#56
 Ethyl methacrylate
 Concen: 23.373 ug/l
 RT: 8.63 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		46231		
41	68.6	53.9	80.9		
39	36.6	28.3	42.5		





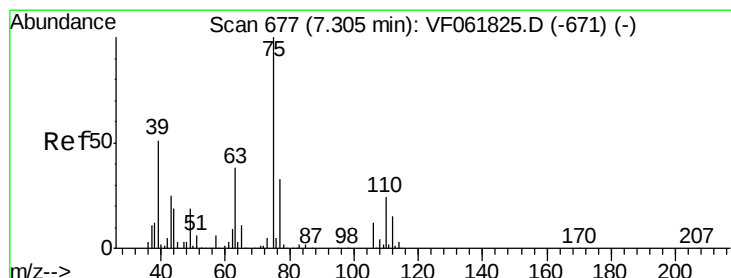
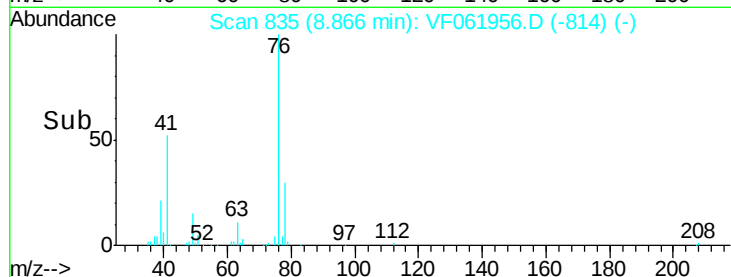
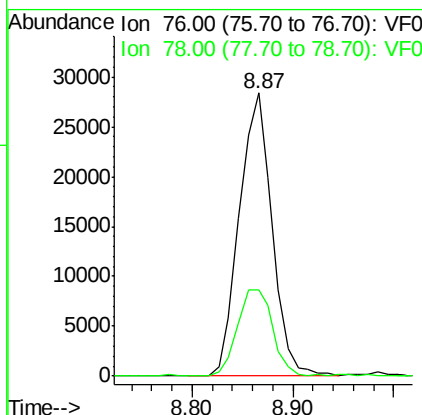
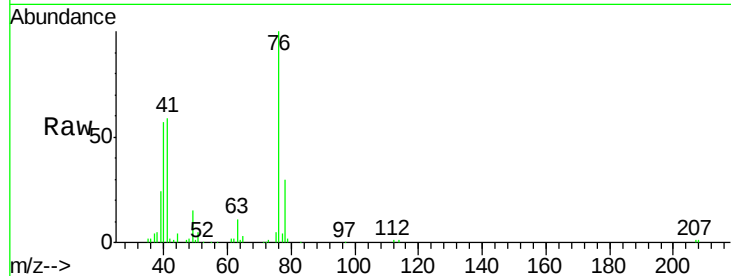
#57
 1,3-Dichloropropane
 Concen: 22.425 ug/l
 RT: 8.87 min Scan# 835
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	30.3	25.4	38.2

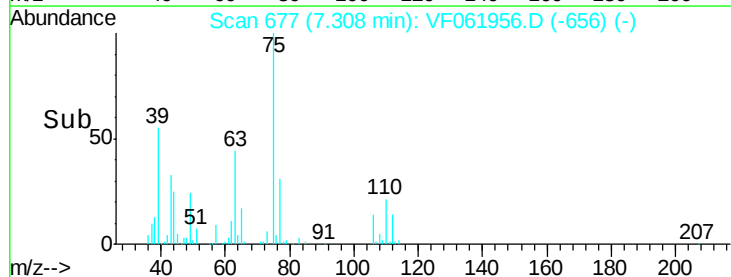
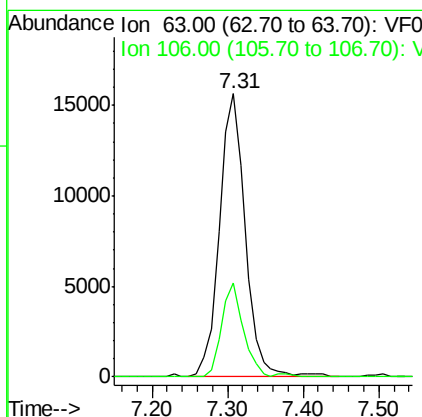
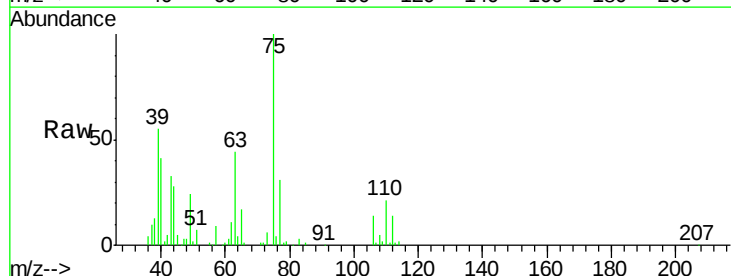
Manual Integrations
 APPROVED

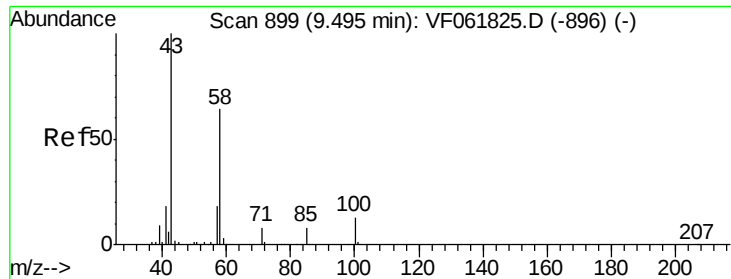
MMDadoda
 3/17/2019 5:23:07 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 118.628 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
63	100		
106	33.0	24.3	36.5





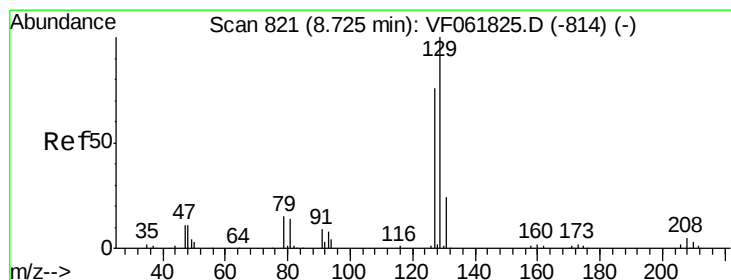
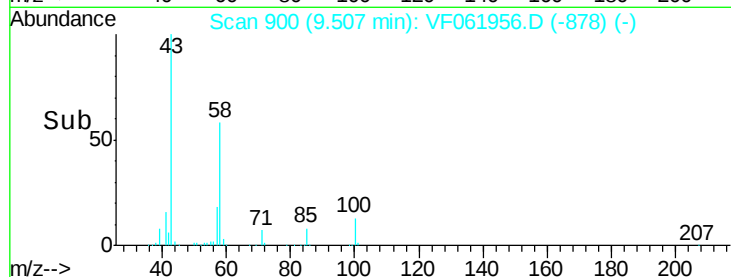
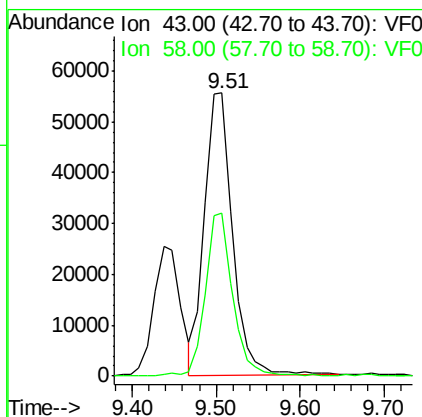
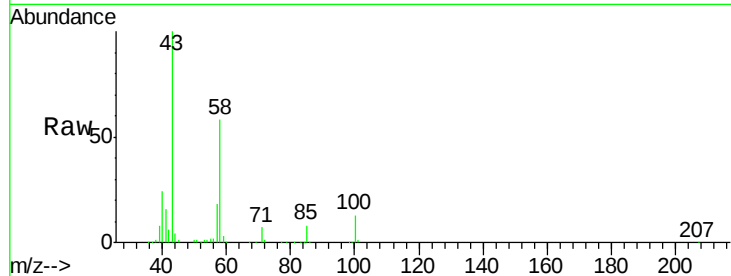
#59
2-Hexanone
Concen: 125.929 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion: 43 Resp: 127974
Ion Ratio Lower Upper
43 100
58 57.5 28.8 86.4

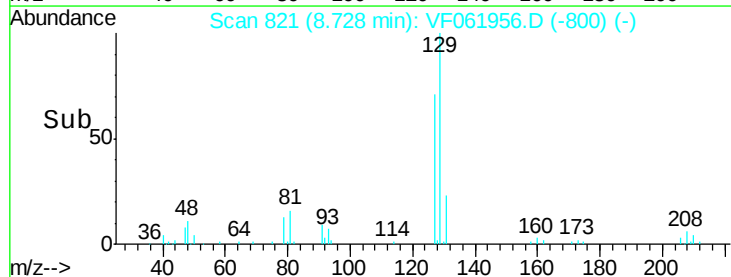
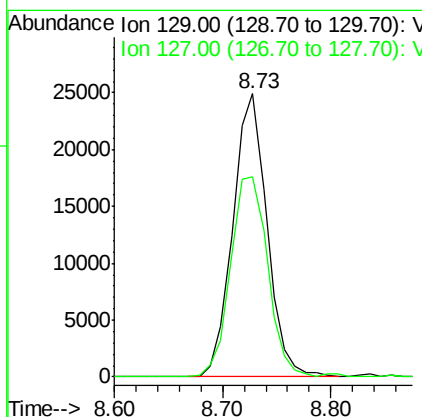
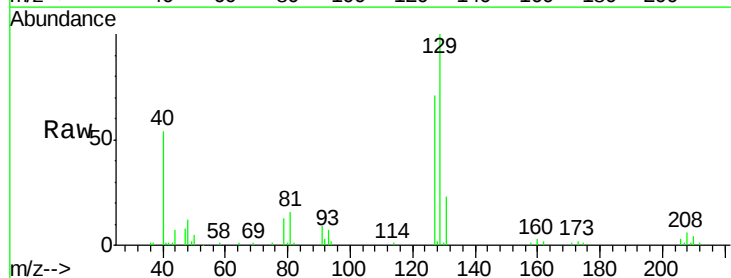
Manual Integrations
APPROVED

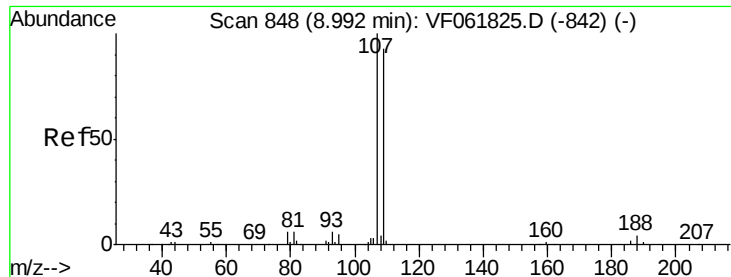
MMDadoda
3/17/2019 5:23:07 AM



#60
Dibromochloromethane
Concen: 21.903 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion:129 Resp: 54789
Ion Ratio Lower Upper
129 100
127 70.9 38.2 114.6





#61

1,2-Dibromoethane

Concen: 22.944 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 107 Resp: 44283

Ion Ratio Lower Upper

107 100

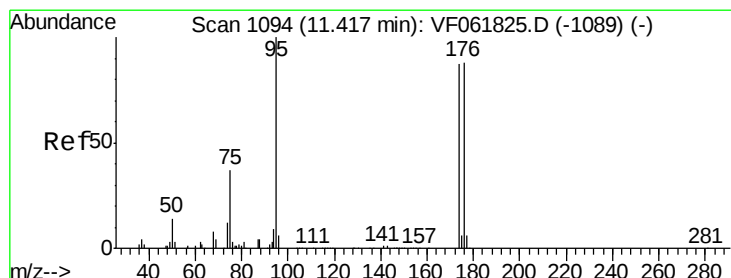
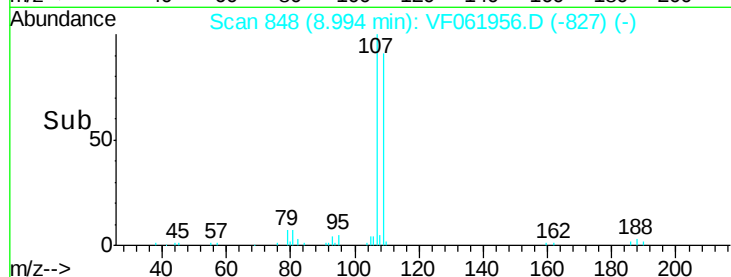
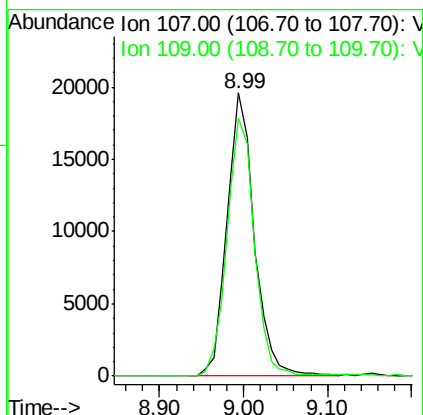
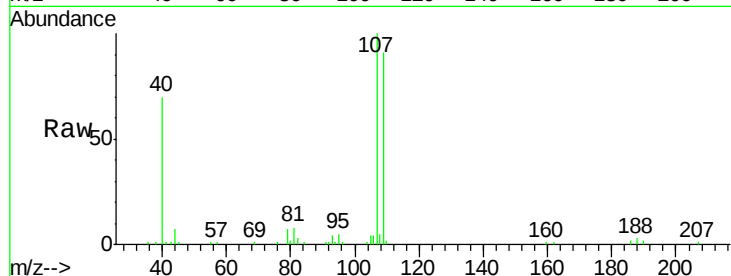
109 91.1 74.6 112.0

Manual Integrations

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MMDadoda

3/17/2019 5:23:07 AM



#62

4-Bromofluorobenzene

Concen: 54.514 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

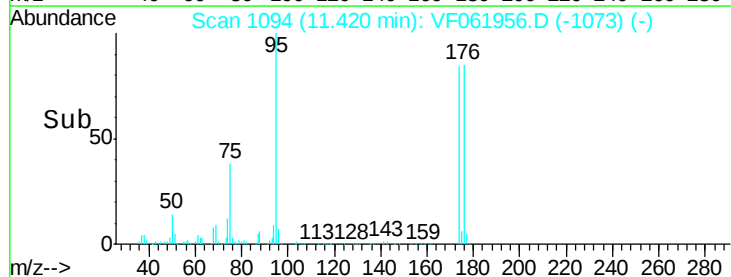
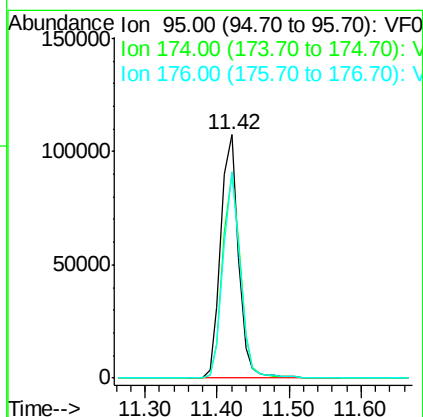
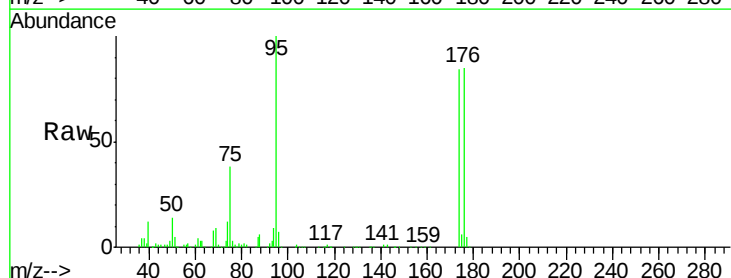
Tgt Ion: 95 Resp: 184728

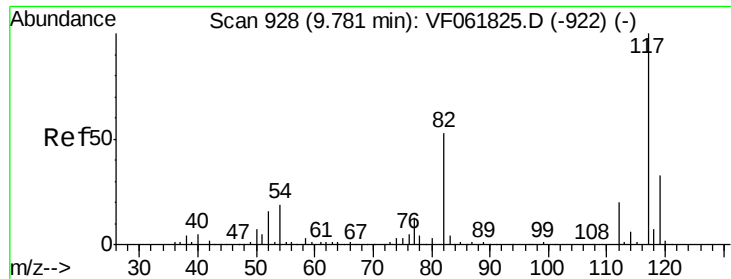
Ion Ratio Lower Upper

95 100

174 84.3 0.0 174.0

176 84.6 0.0 175.2





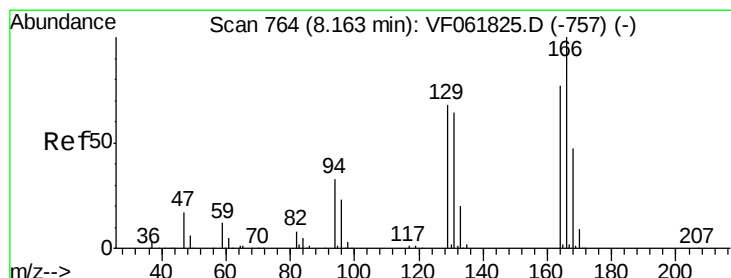
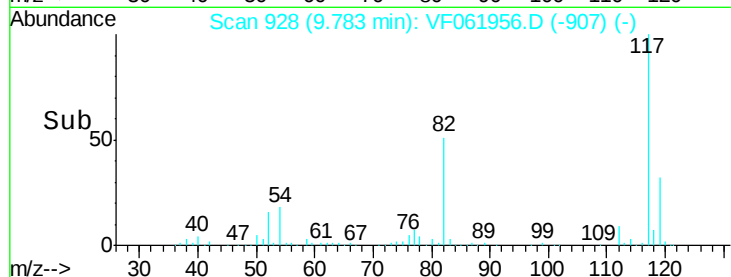
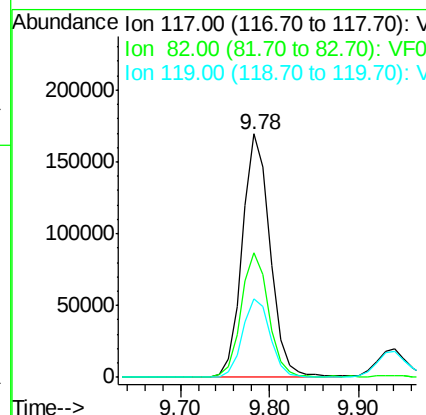
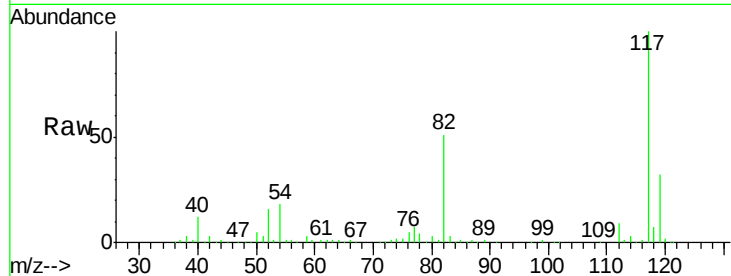
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.6	63.8
119	32.1	26.0	39.0

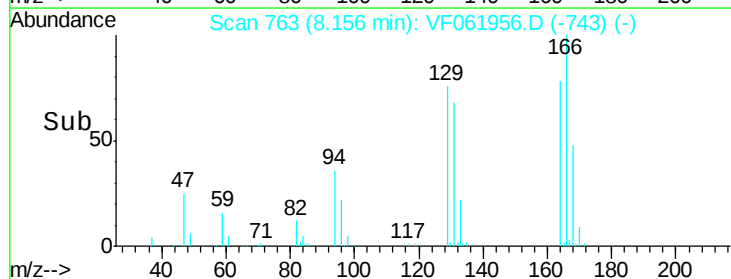
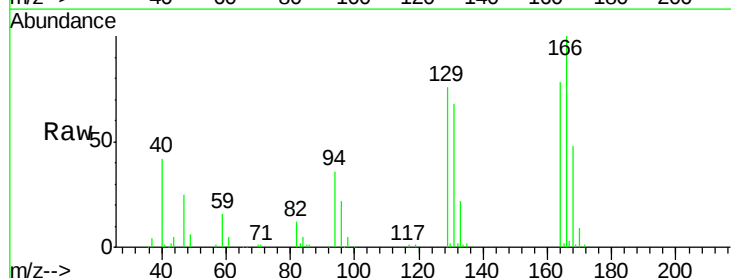
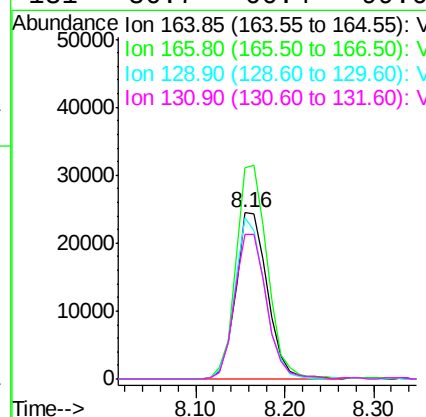
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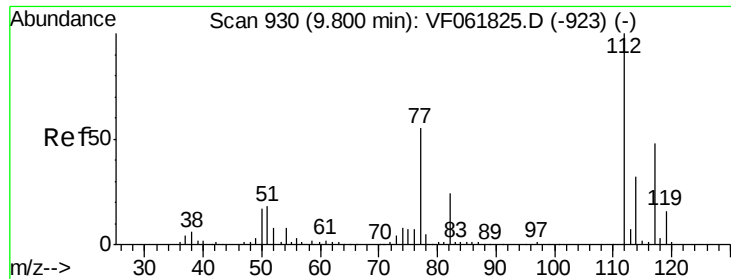
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#64
Tetrachloroethene
Concen: 21.532 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	103.4	155.0
129	97.3	69.9	104.9
131	86.7	66.4	99.6





#65

Chlorobenzene

Concen: 22.099 ug/l

RT: 9.80 min Scan# 930

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:112 Resp: 156491

Ion Ratio Lower Upper

112 100

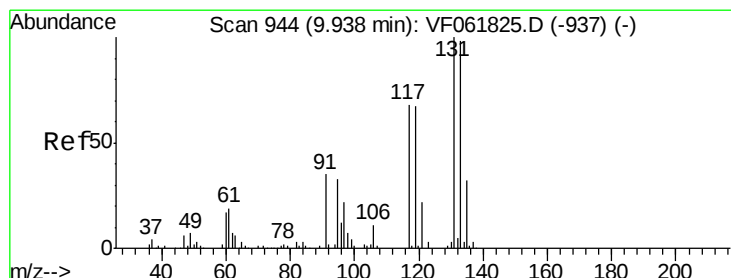
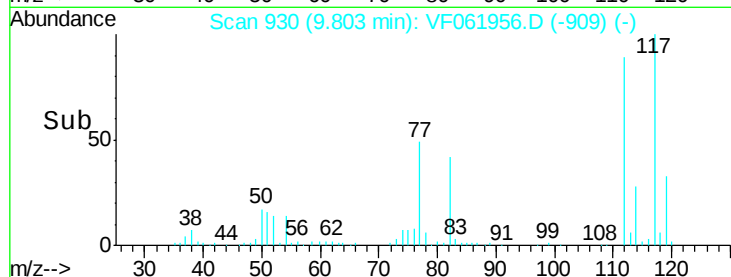
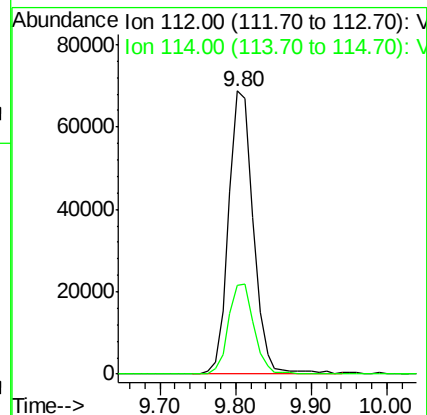
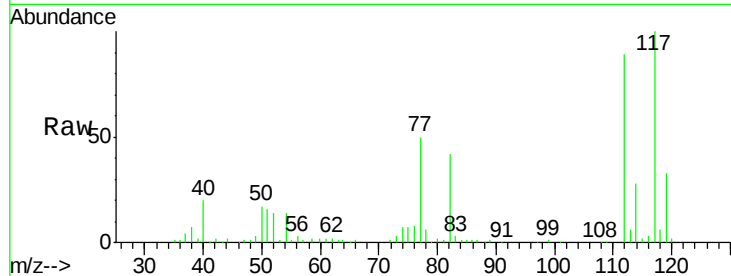
114 31.5 25.5 38.3

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 22.617 ug/l

RT: 9.94 min Scan# 944

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

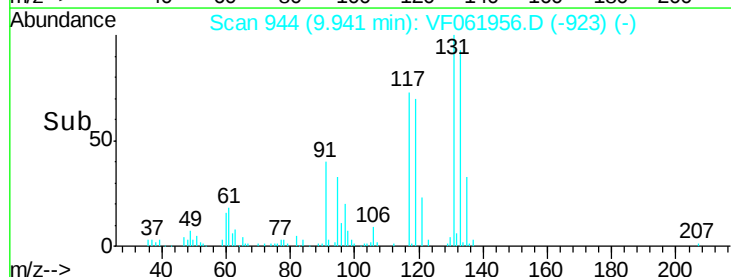
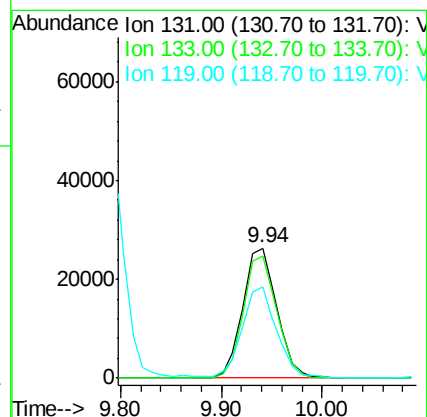
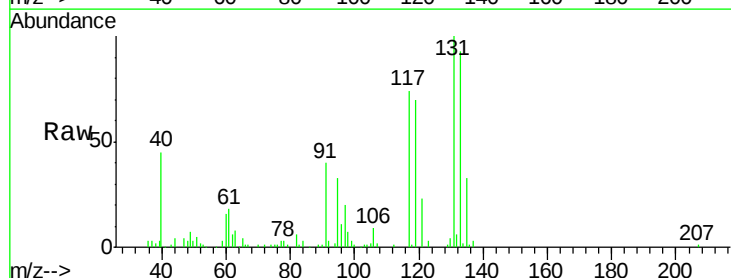
Tgt Ion:131 Resp: 62053

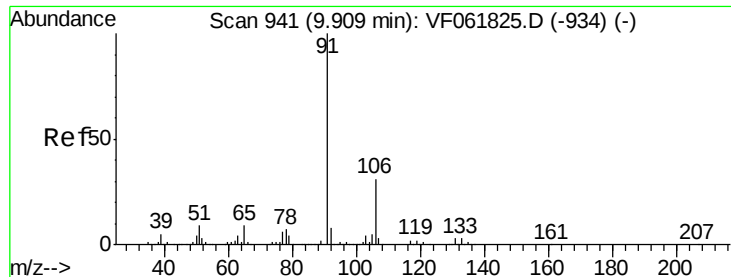
Ion Ratio Lower Upper

131 100

133 93.2 48.9 146.7

119 70.0 33.6 100.8





#67

Ethyl Benzene

Concen: 23.637 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 91 Resp: 277430

Ion Ratio Lower Upper

91 100

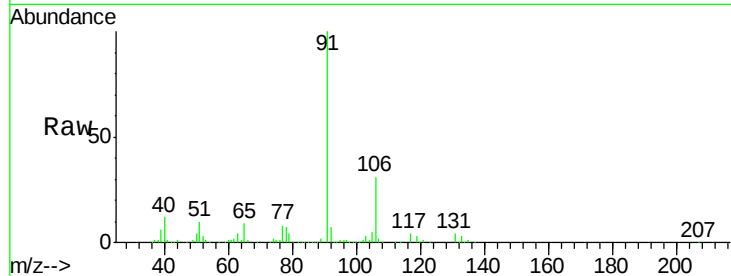
106 31.3 25.0 37.4

Manual Integrations

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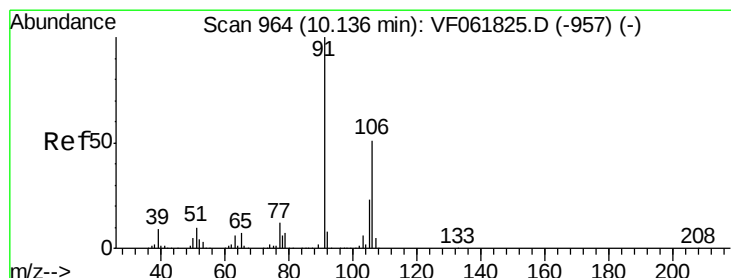
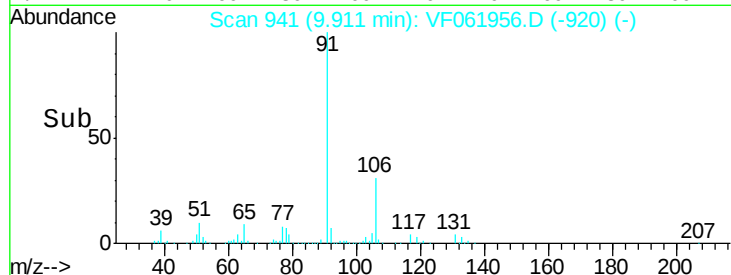
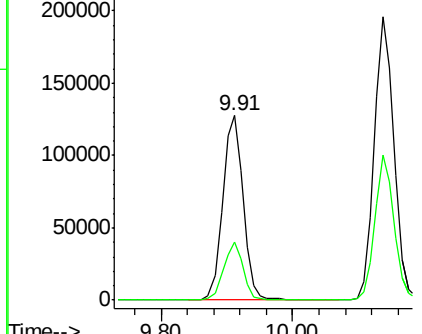
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.987 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF061956.D

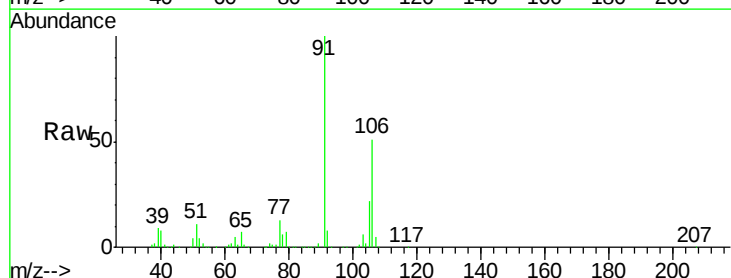
Acq: 15 Mar 2019 12:50

Tgt Ion: 106 Resp: 206771

Ion Ratio Lower Upper

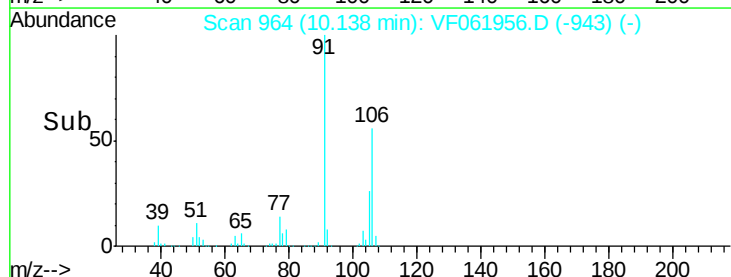
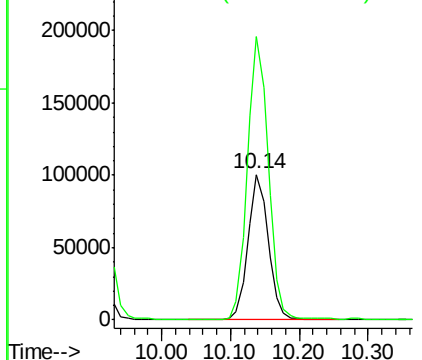
106 100

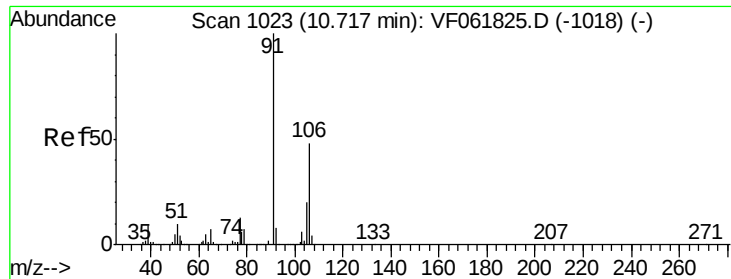
91 194.6 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





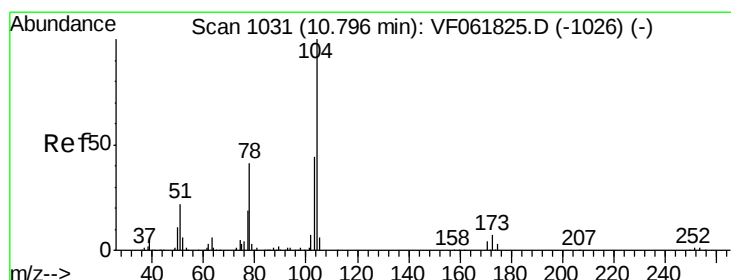
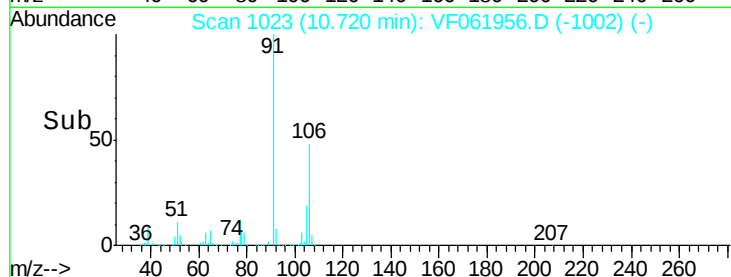
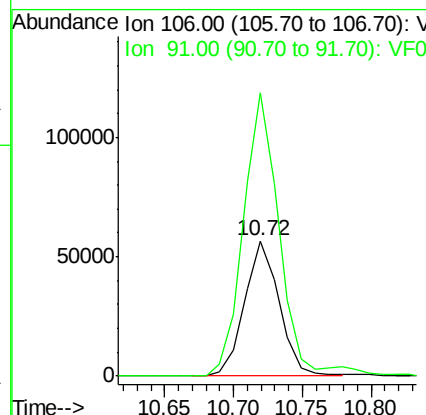
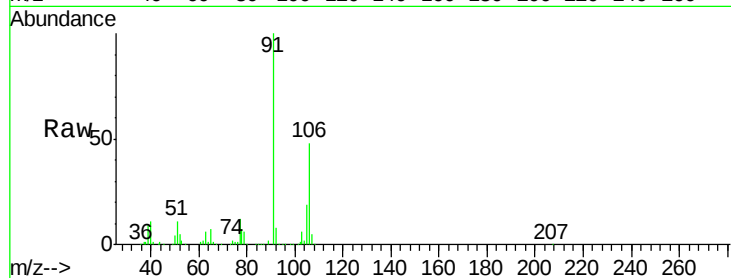
#69
o-Xylene
Concen: 20.729 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	209.1	103.5	310.3	

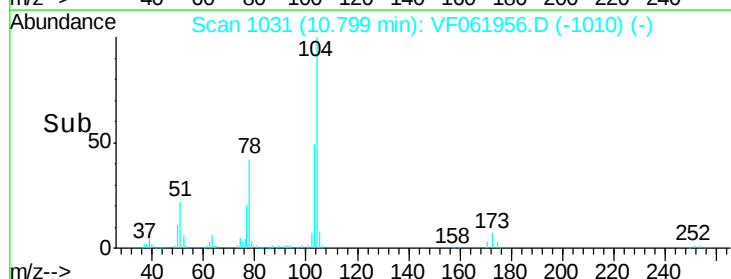
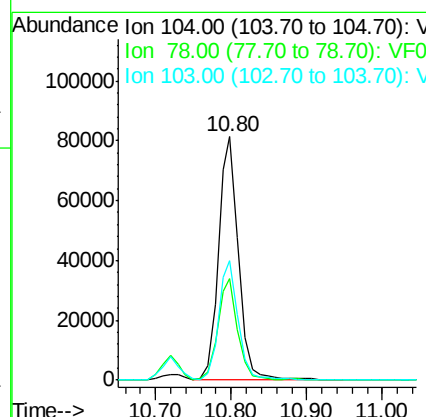
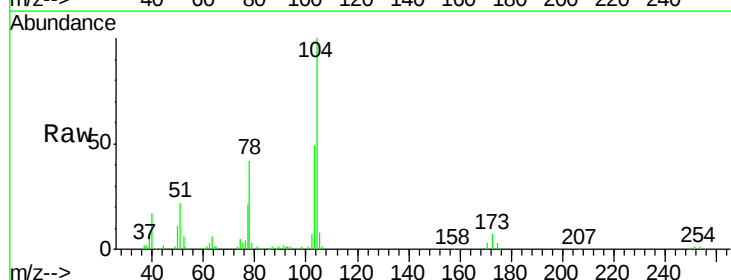
Manual Integrations
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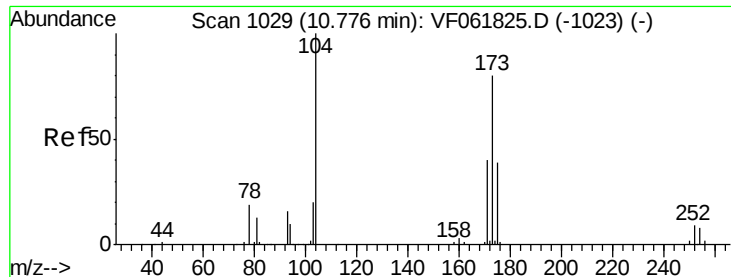
MMDadoda
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#70
Styrene
Concen: 21.975 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	41.8	33.3	49.9	
103	49.1	35.4	53.0	





#71

Bromoform

Concen: 20.539 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:173 Resp: 29783

Ion Ratio Lower Upper

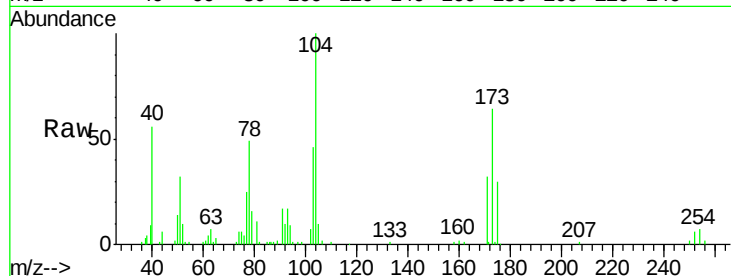
173 100

175 46.6 24.5 73.5

254 10.6 8.0 12.0

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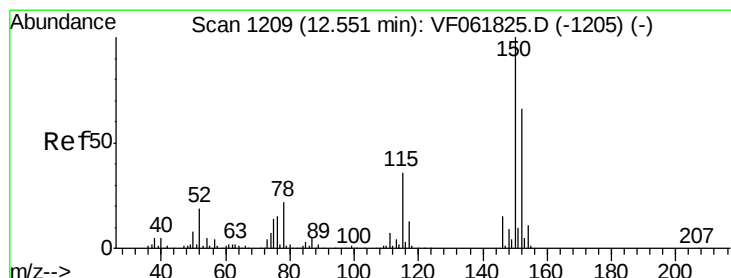
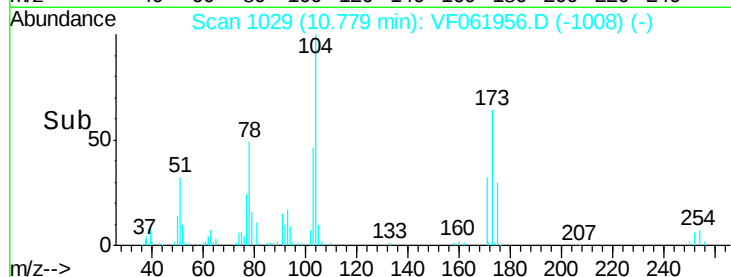
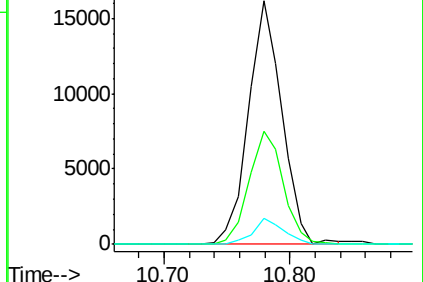
MMDadoda
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Abundance Ion 173.00 (172.70 to 173.70): V

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: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

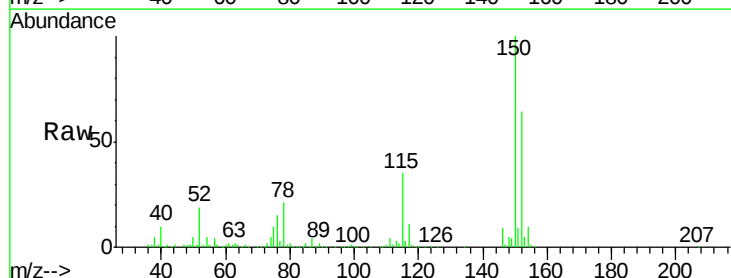
Tgt Ion:152 Resp: 198712

Ion Ratio Lower Upper

152 100

115 54.5 27.7 83.1

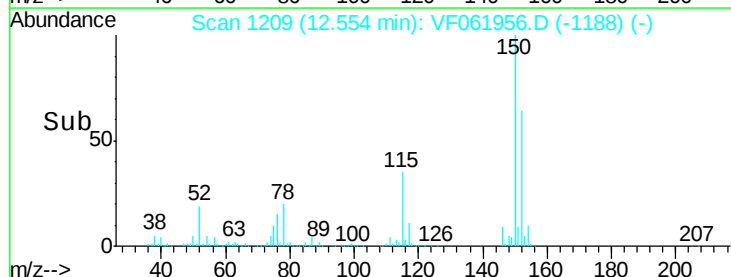
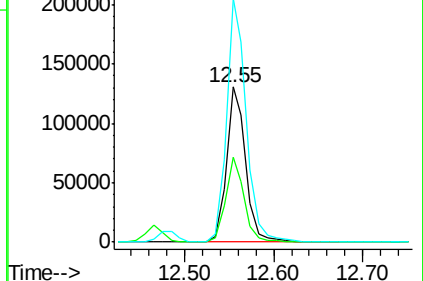
150 156.9 0.0 304.2

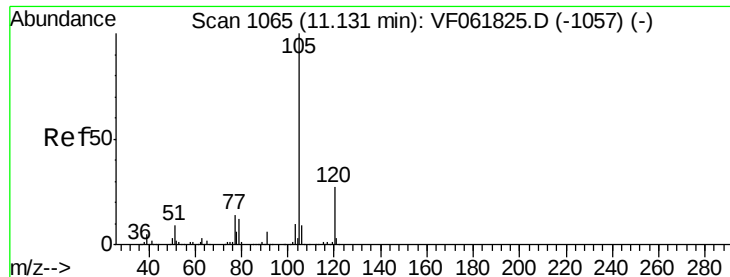


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.262 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 105 Resp: 304543

Ion Ratio Lower Upper

105 100

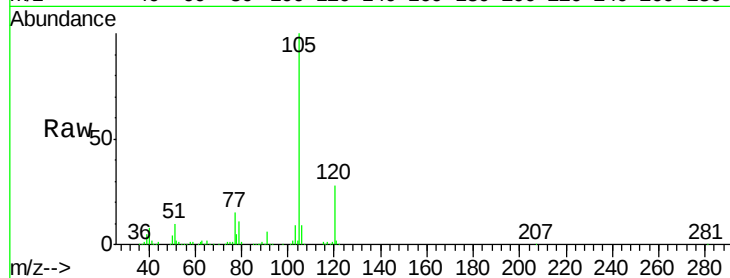
120 27.7 13.7 41.0

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.13

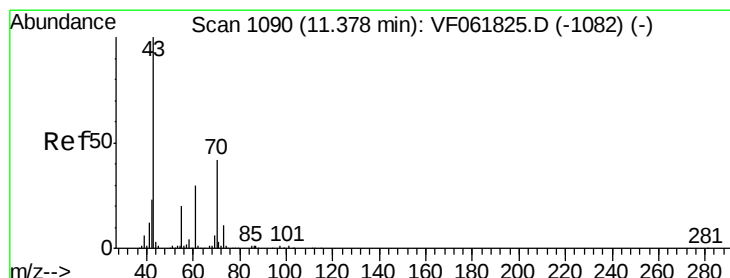
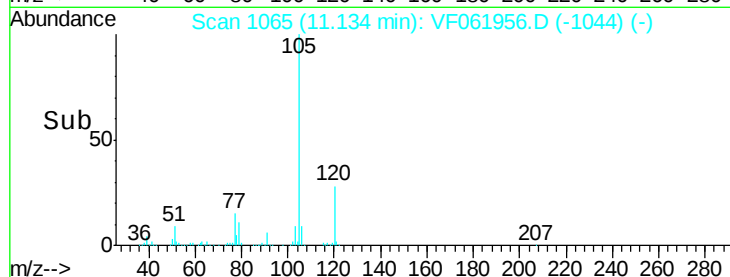
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 22.944 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion: 43 Resp: 72260

Ion Ratio Lower Upper

43 100

70 41.4 33.4 50.0

55 22.2 16.3 24.5

61 28.8 24.0 36.0

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.38

40000

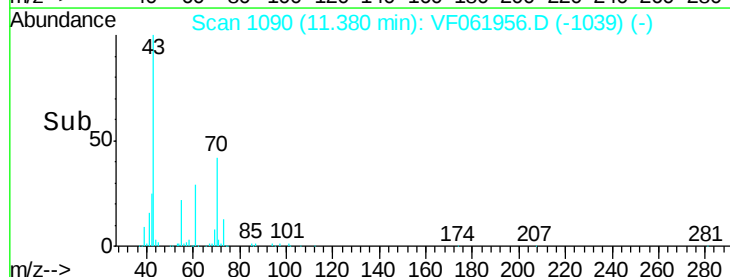
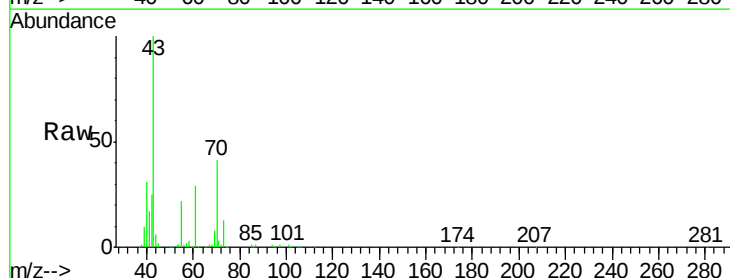
30000

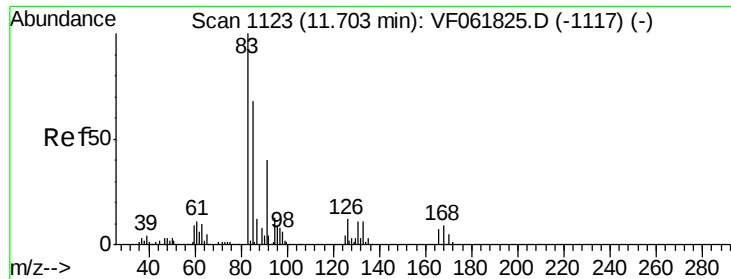
20000

10000

0

Time--> 11.20 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 23.018 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 83 Resp: 52335

Ion Ratio Lower Upper

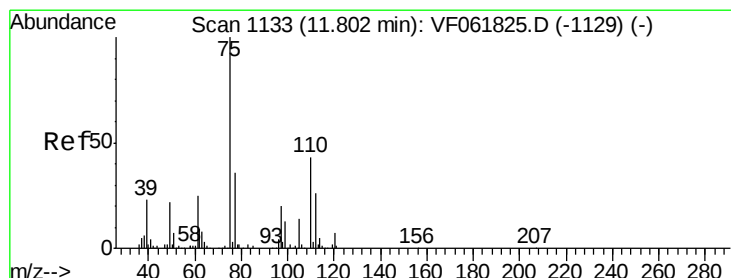
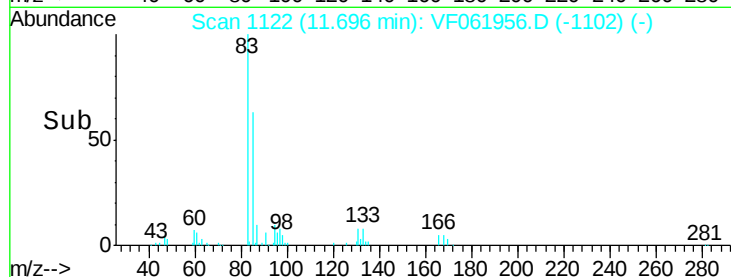
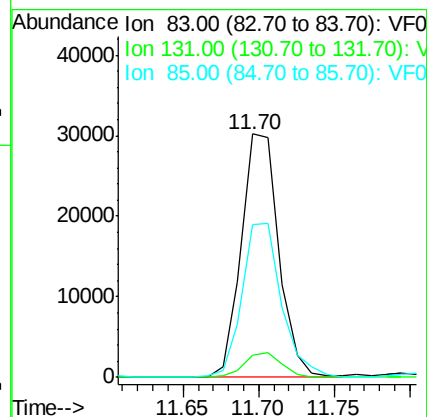
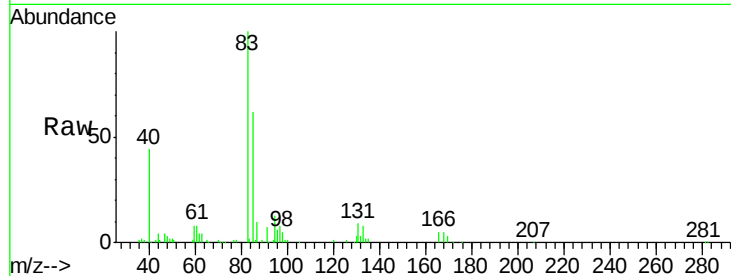
83 100

131 9.2 5.5 16.7

85 62.5 34.2 102.6

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#76

1,2,3-Trichloropropane

Concen: 23.046 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF061956.D

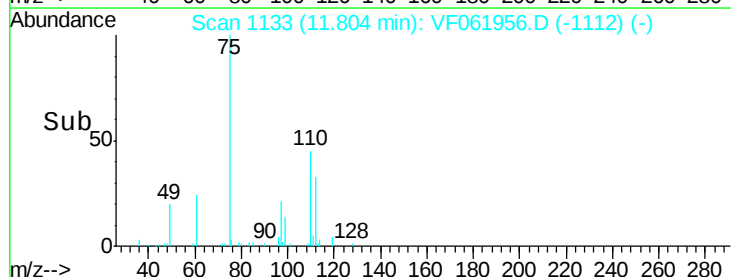
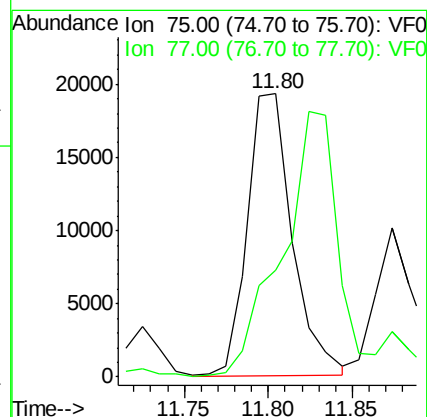
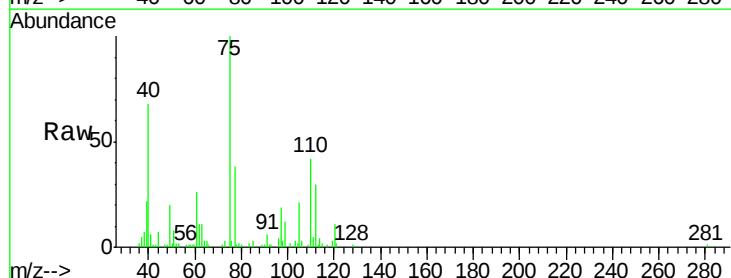
Acq: 15 Mar 2019 12:50

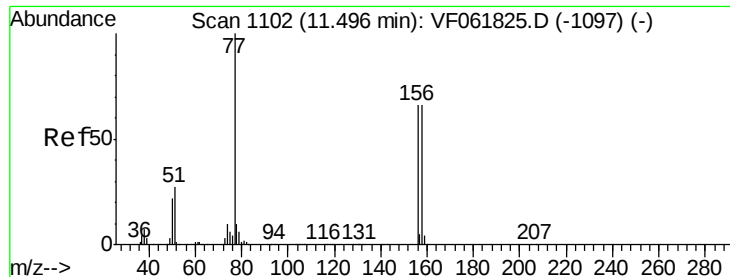
Tgt Ion: 75 Resp: 35763

Ion Ratio Lower Upper

75 100

77 37.6 18.1 54.4





#77

Bromobenzene

Concen: 23.112 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:156 Resp: 76093

Ion Ratio Lower Upper

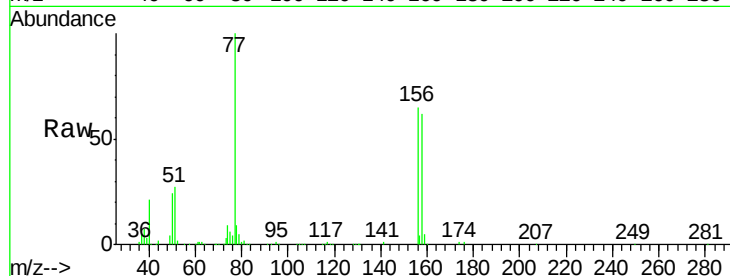
156 100

77 152.9 75.7 227.1

158 94.9 50.0 150.1

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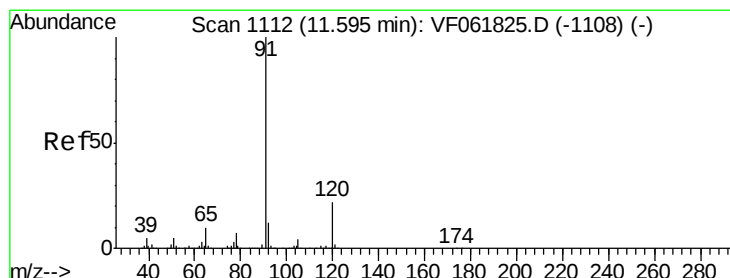
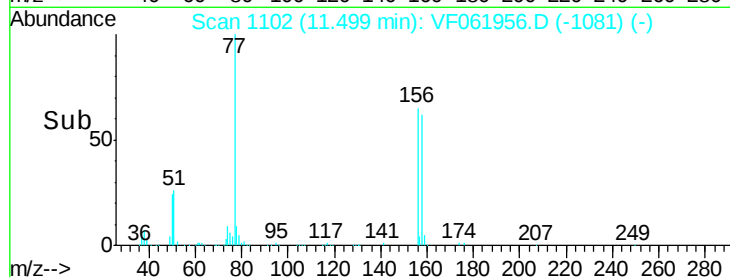
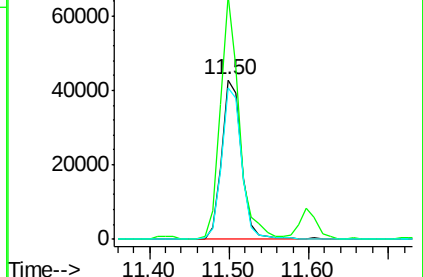
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.669 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF061956.D

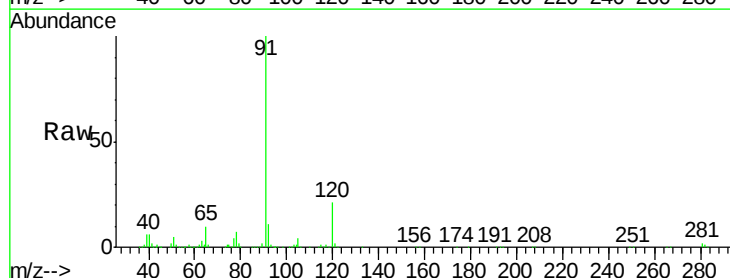
Acq: 15 Mar 2019 12:50

Tgt Ion: 91 Resp: 350214

Ion Ratio Lower Upper

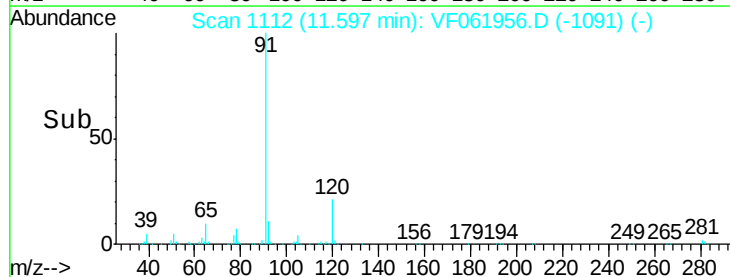
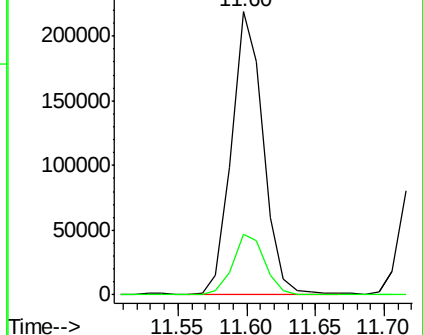
91 100

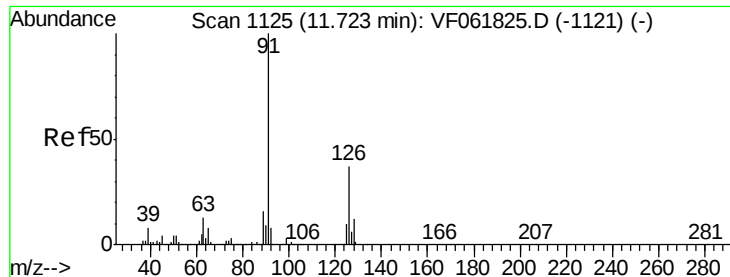
120 21.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.650 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 91 Resp: 200054

Ion Ratio Lower Upper

91 100

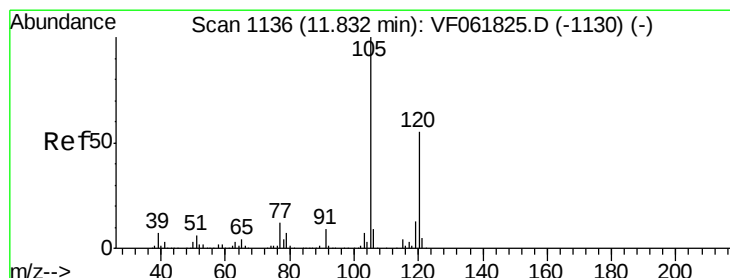
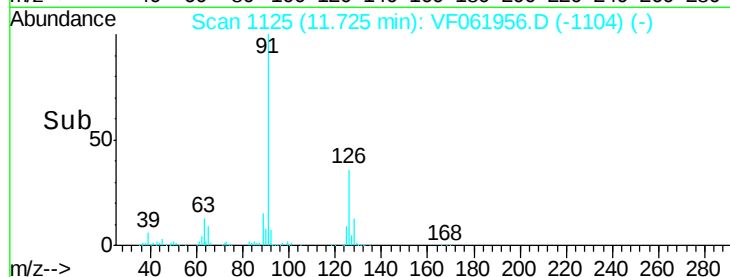
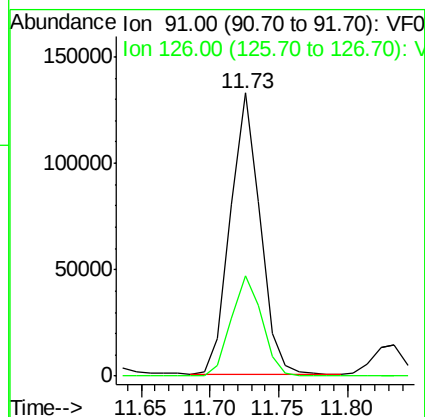
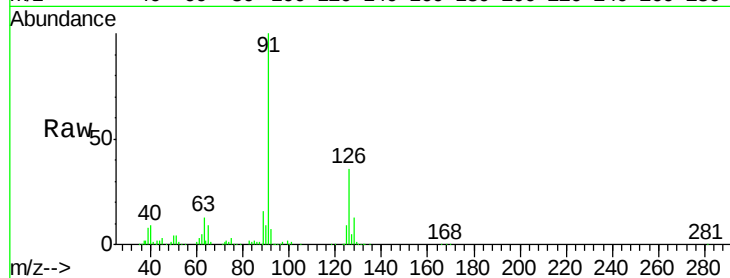
126 35.6 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 21.962 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061956.D

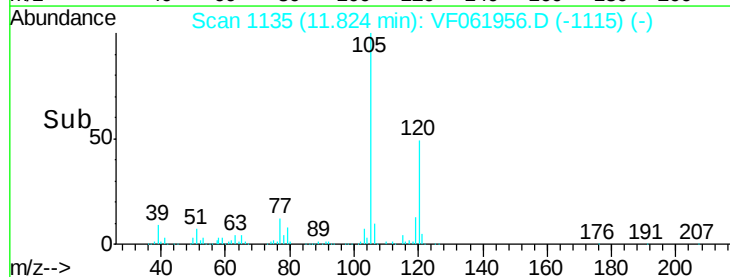
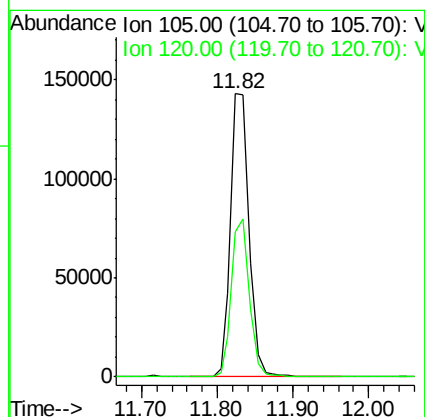
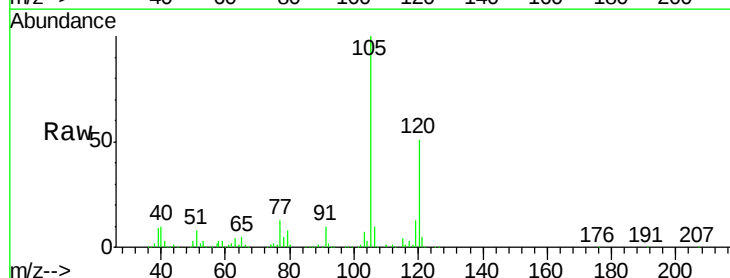
Acq: 15 Mar 2019 12:50

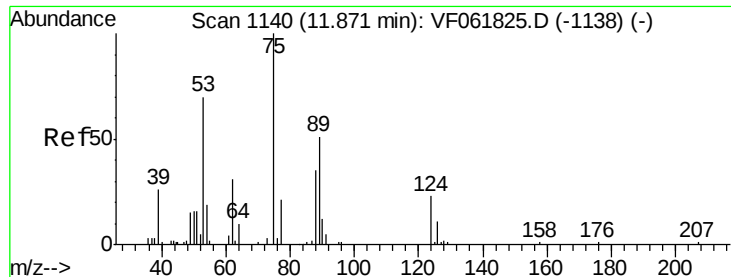
Tgt Ion: 105 Resp: 241226

Ion Ratio Lower Upper

105 100

120 51.3 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 22.325 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

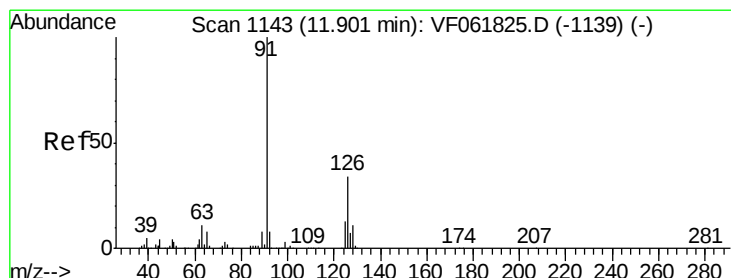
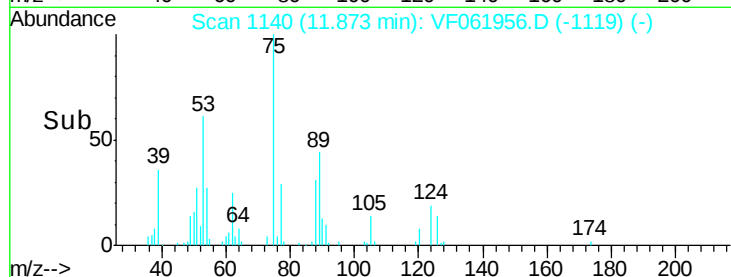
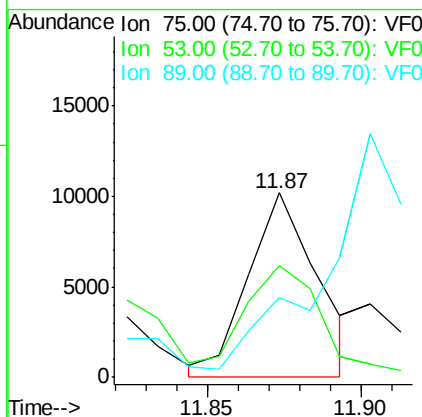
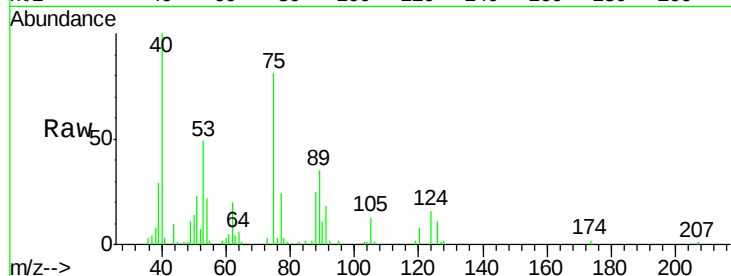
ClientSampleId :

VF0315SBS01

Tot Ion:	75	Resp:	15842
Ion	Ratio	Lower	Upper
75	100		
53	60.2	58.6	88.0
89	43.3	41.4	62.0

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#82

4-Chlorotoluene

Concen: 22.090 ug/l

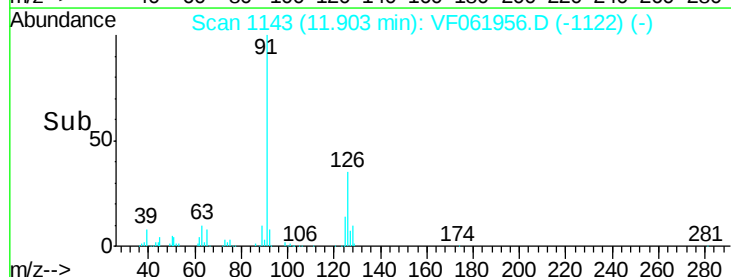
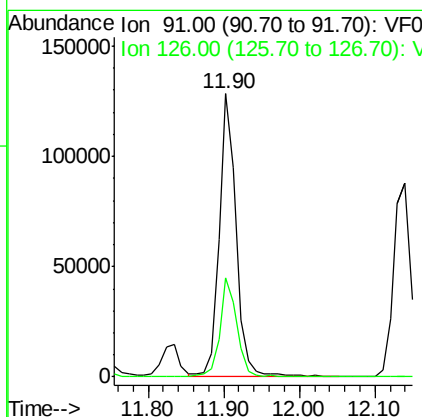
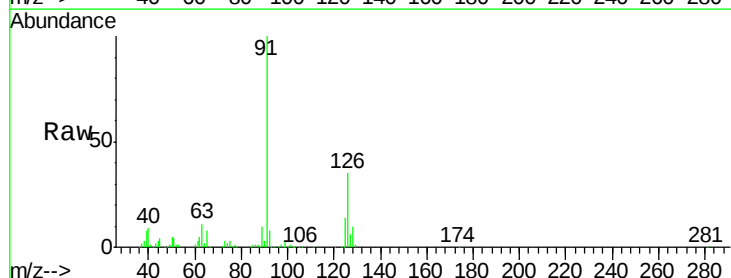
RT: 11.90 min Scan# 1143

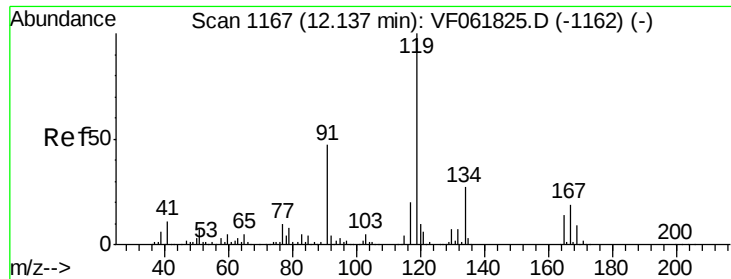
Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	91	Resp:	199563
Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.0	50.9





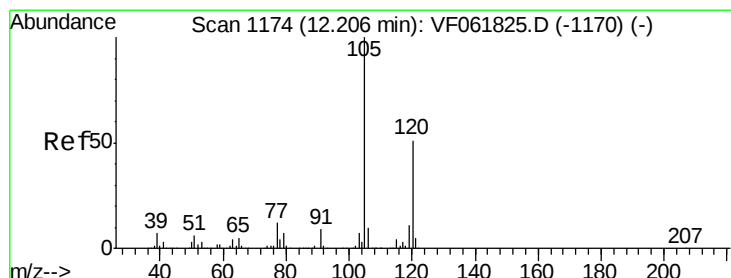
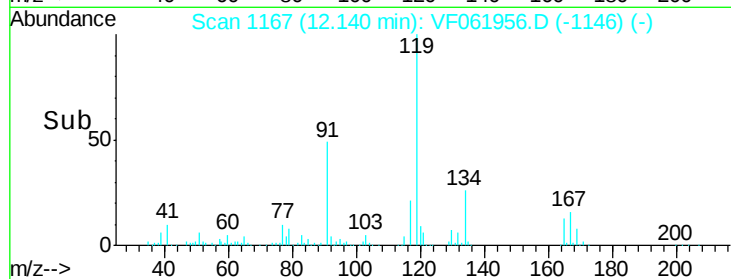
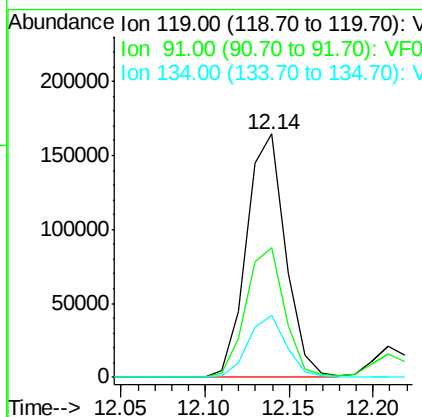
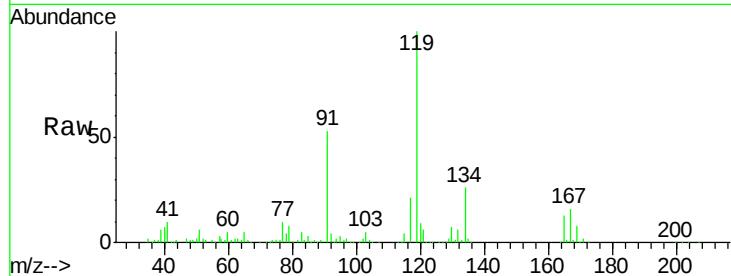
#83
 tert-Butylbenzene
 Concen: 22.706 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	264818		
91	53.3		23.5	70.5
134	25.7		13.3	39.8

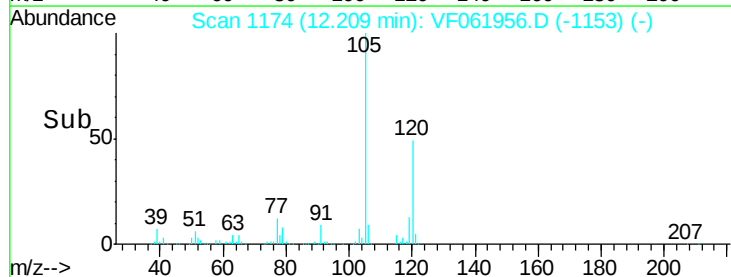
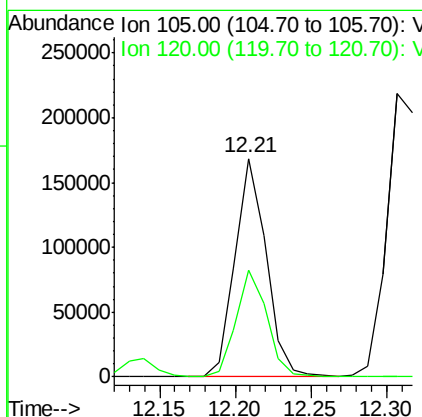
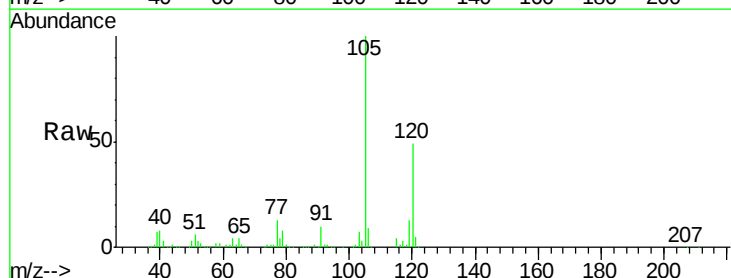
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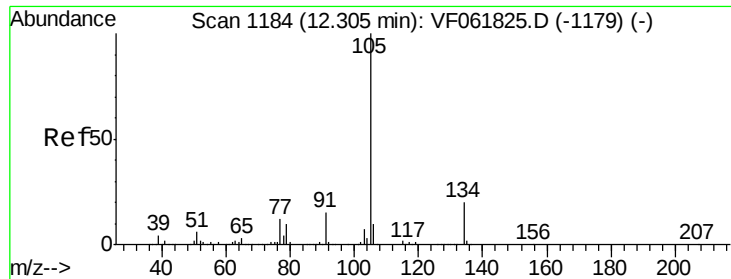
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.483 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	242075		
120	48.7		25.8	77.4





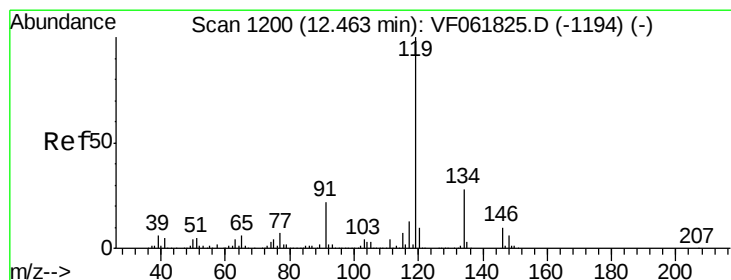
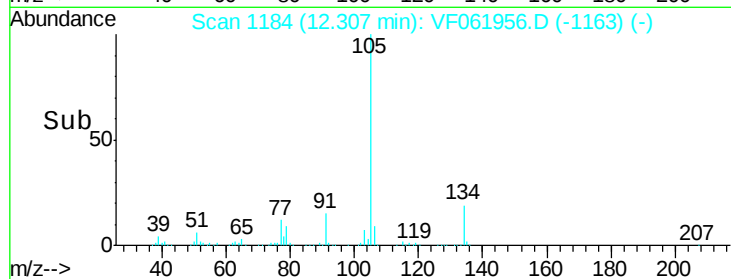
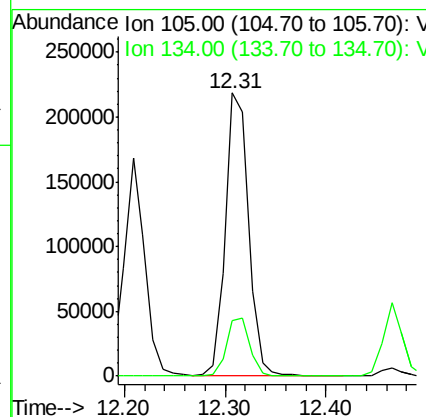
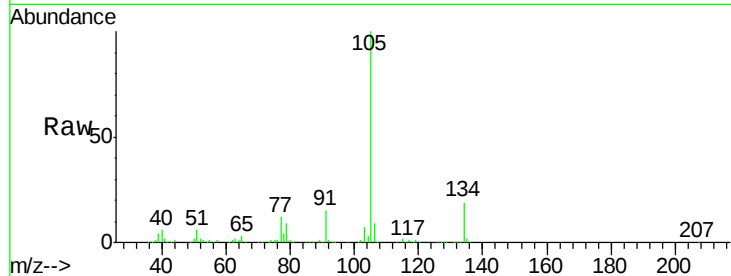
#85
 sec-Butylbenzene
 Concen: 23.143 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

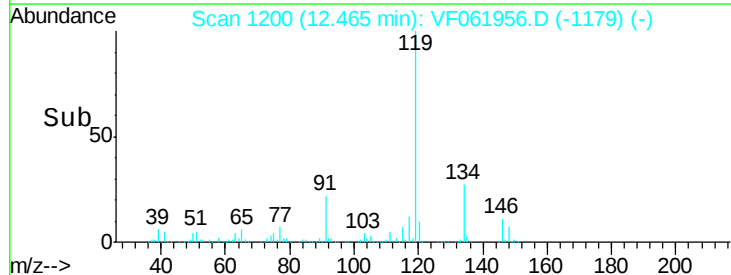
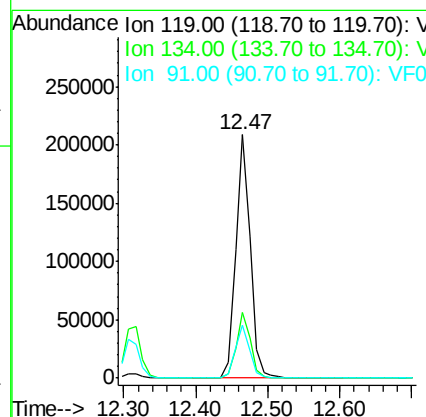
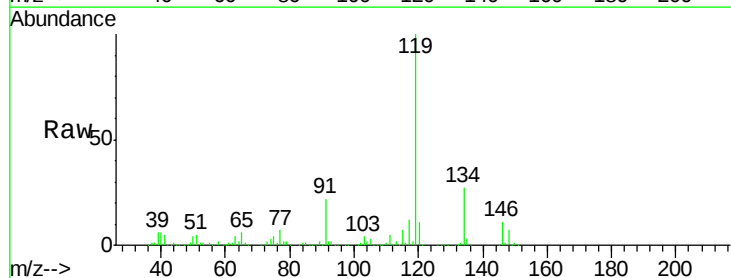
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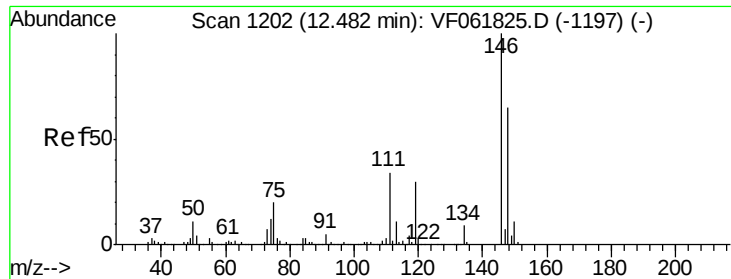
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#86
 p-Isopropyltoluene
 Concen: 22.555 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.2	14.0	42.0
91	21.6	11.1	33.3





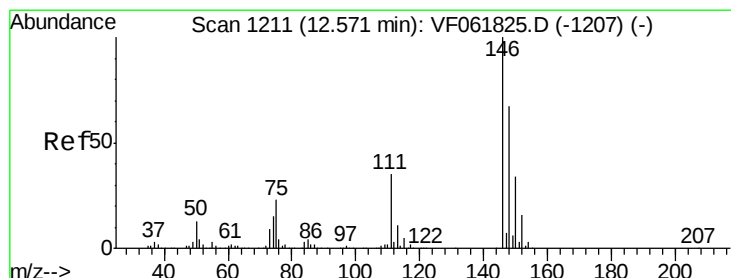
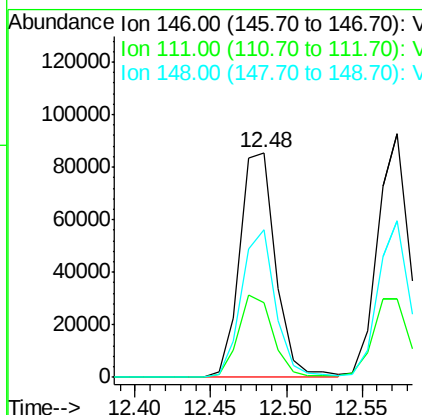
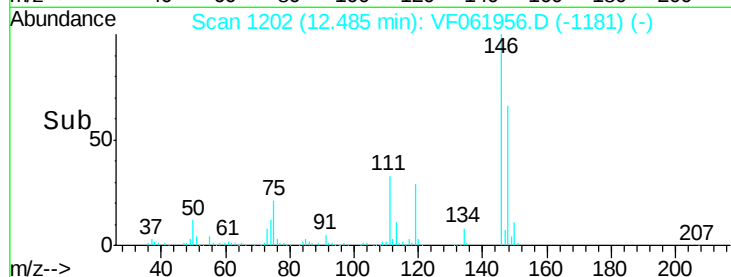
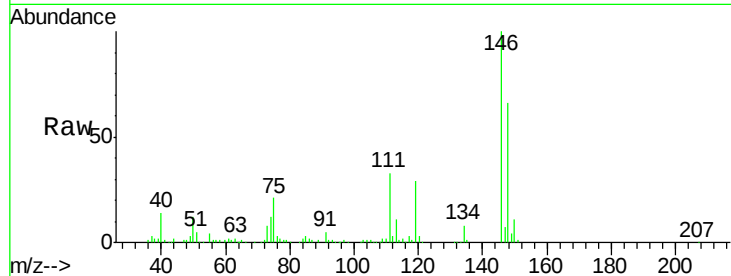
#87
 1,3-Dichlorobenzene
 Concen: 22.648 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.4	17.0	51.0
148	65.8	32.5	97.5

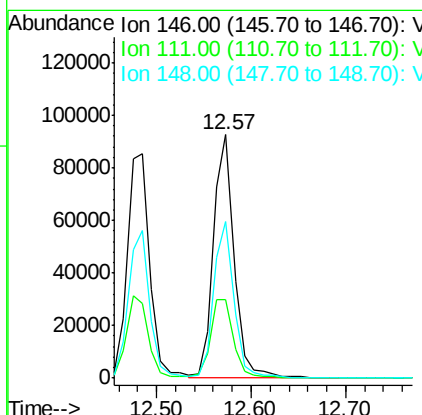
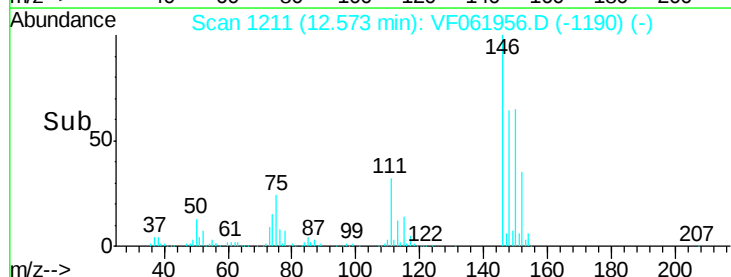
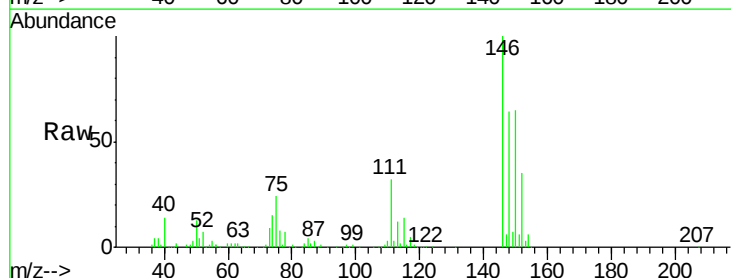
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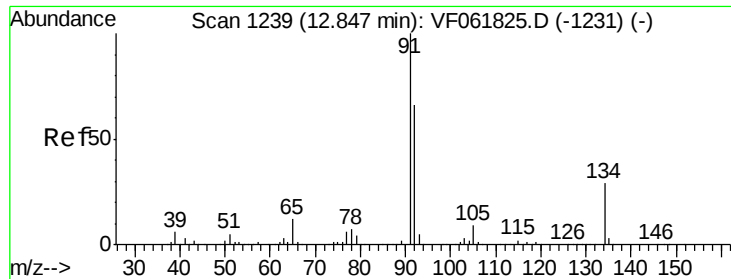
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#88
 1,4-Dichlorobenzene
 Concen: 23.281 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.5	17.6	52.9
148	64.2	33.5	100.4





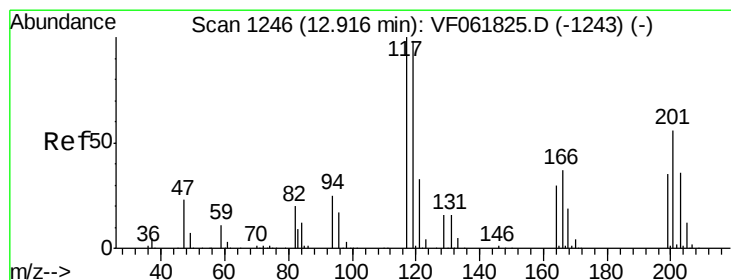
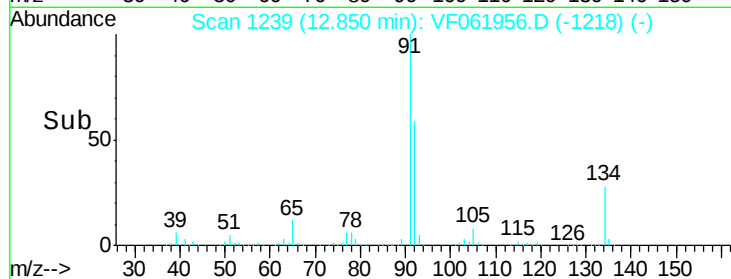
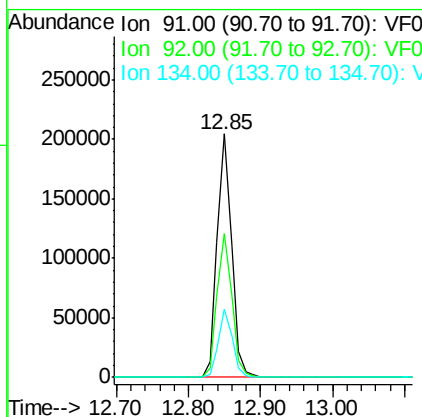
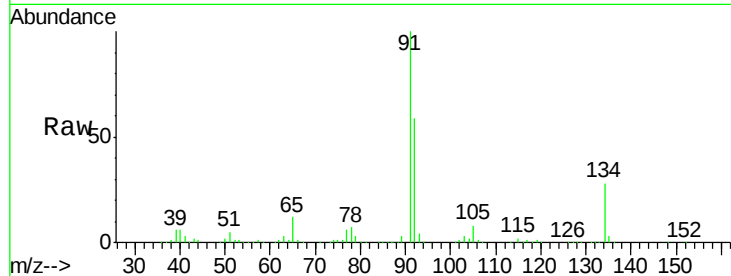
#89
n-Butylbenzene
Concen: 22.851 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.2	32.9	98.6
134	27.8	14.5	43.6

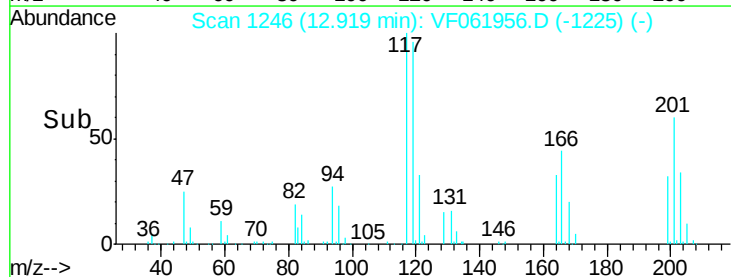
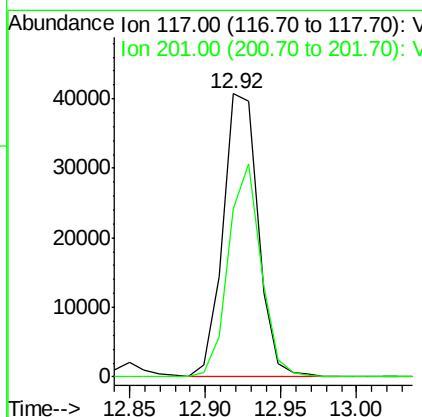
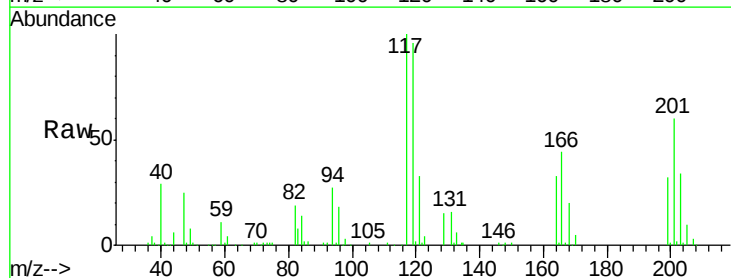
Manual Integrations
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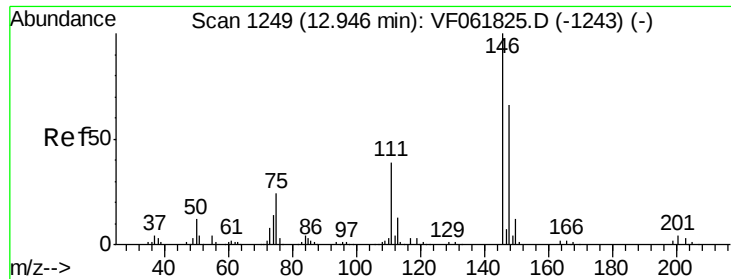
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#90
Hexachloroethane
Concen: 21.252 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.00 min
Lab File: VF061956.D
Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	59.6	27.8	83.4





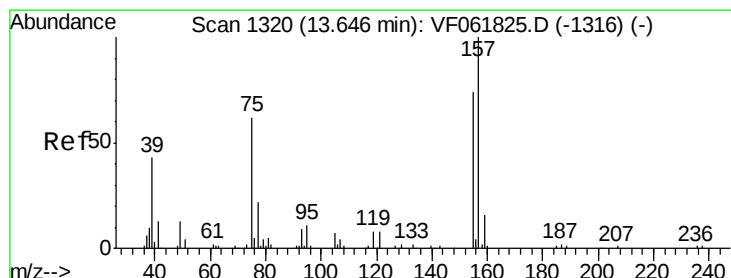
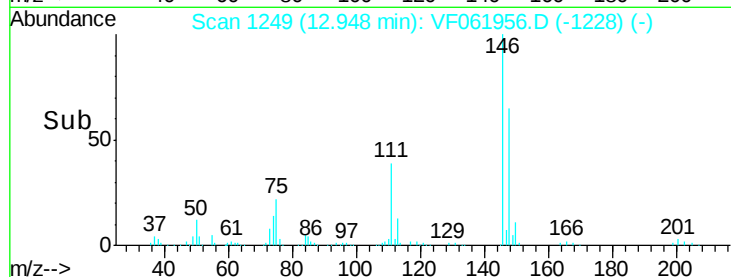
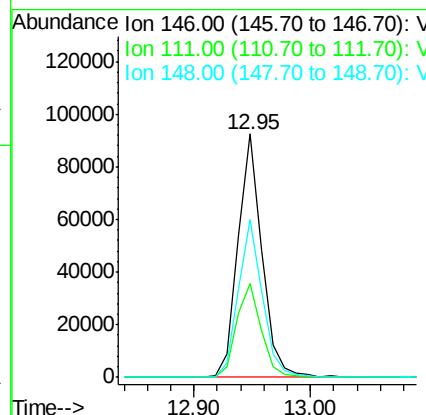
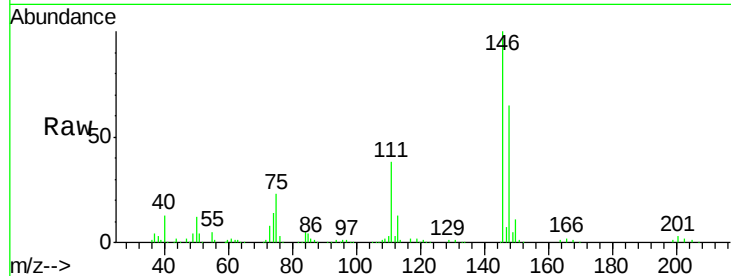
#91
 1,2-Dichlorobenzene
 Concen: 22.309 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.4	58.4
148	65.0	33.0	98.9

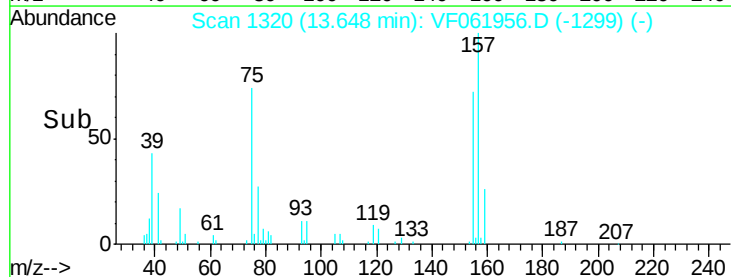
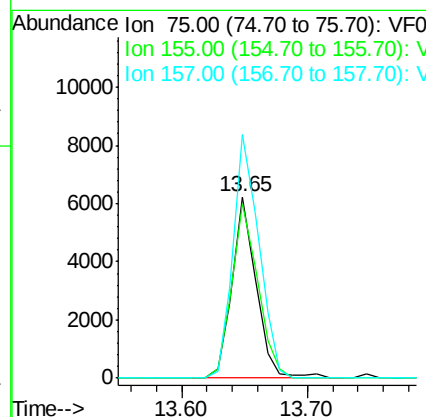
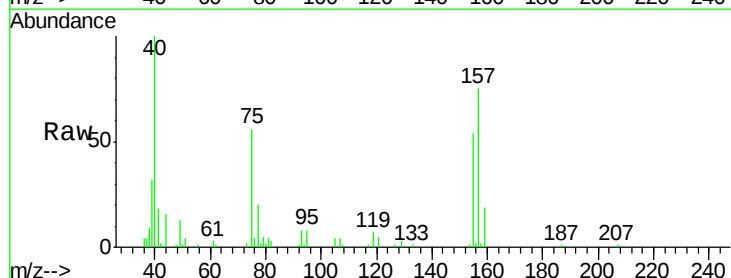
Manual Integrations
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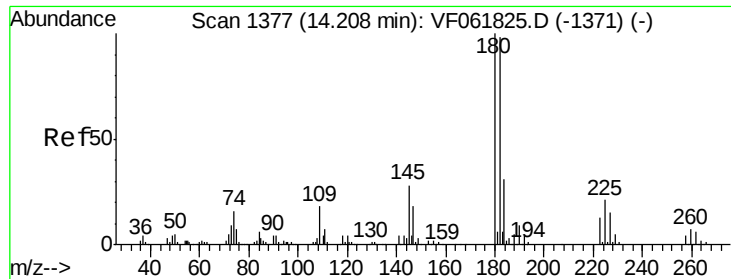
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.121 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	59.8	179.4
157	134.6	81.2	243.4





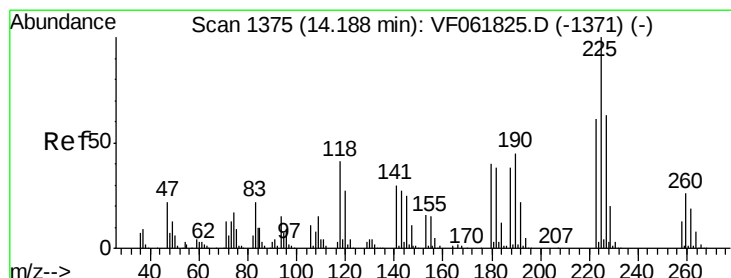
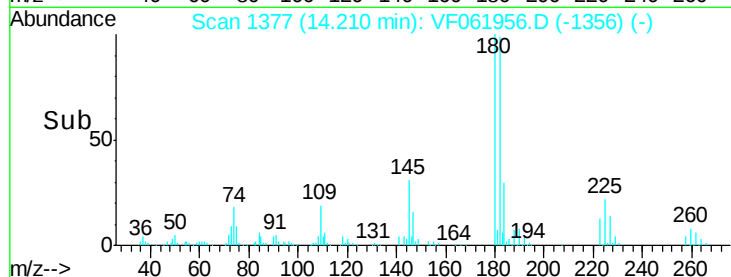
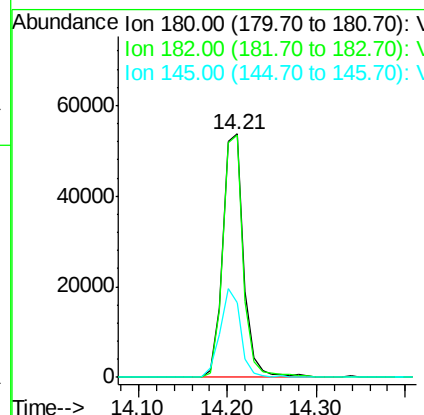
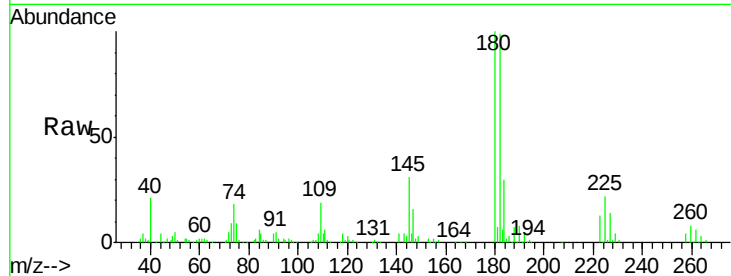
#93
 1,2,4-Trichlorobenzene
 Concen: 21.479 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	89192		
182	99.3	49.0	147.2	
145	30.5	14.1	42.4	

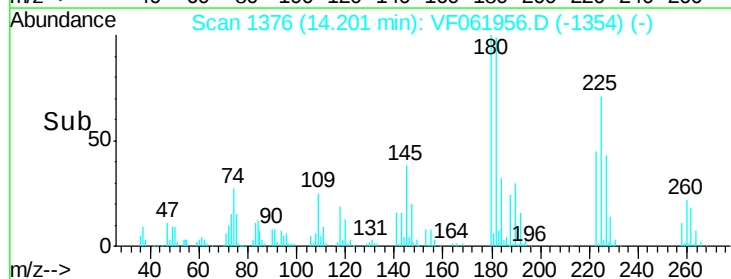
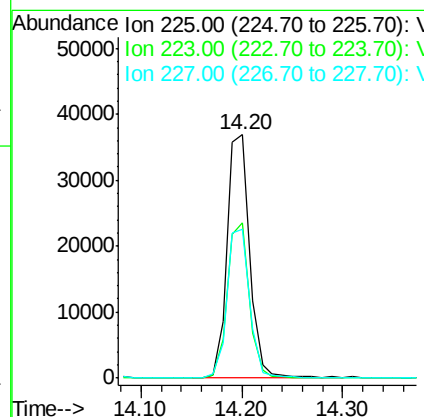
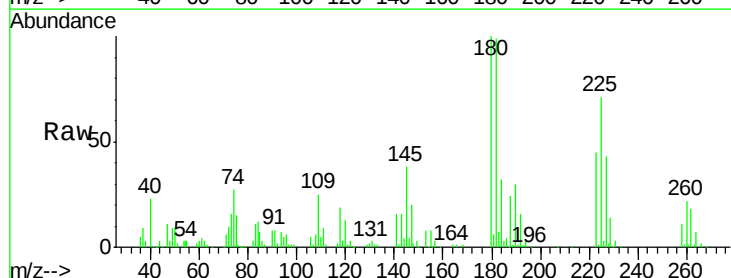
Manual Integrations
 APPROVED

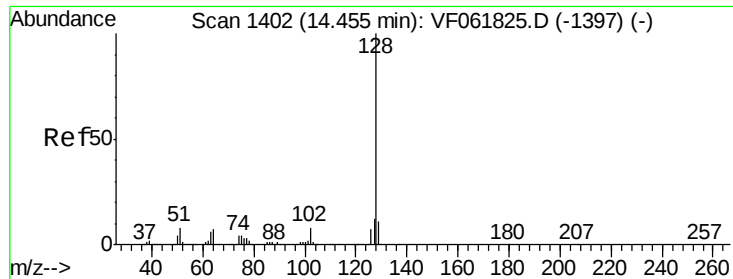
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#94
 Hexachlorobutadiene
 Concen: 20.005 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061956.D
 Acq: 15 Mar 2019 12:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	57508		
223	64.0	30.3	90.9	
227	61.3	31.3	93.8	





#95

Naphthalene

Concen: 20.662 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Instrument :

MSVOA_F

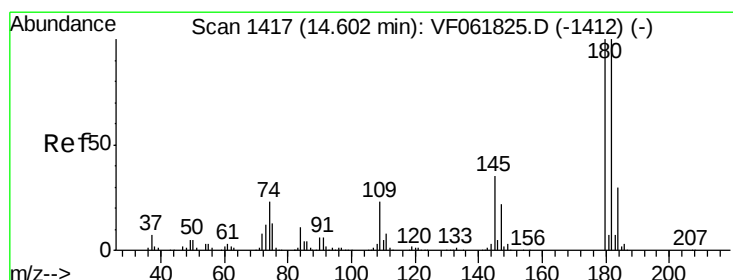
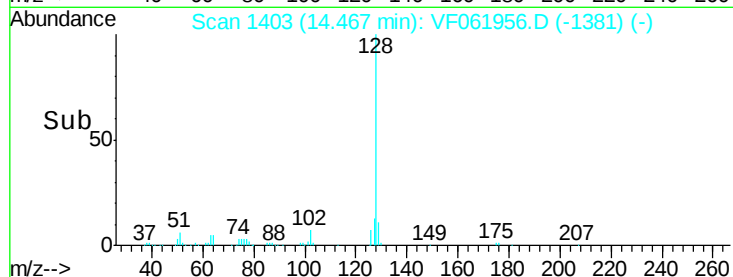
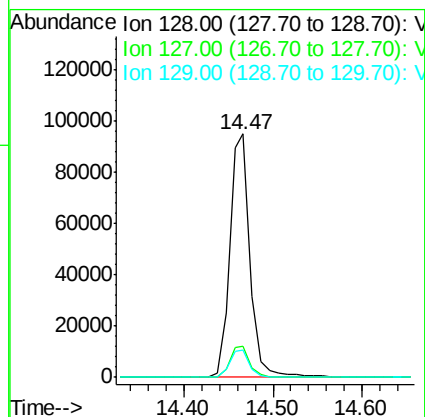
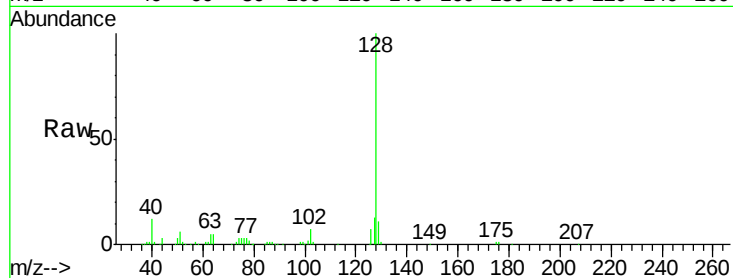
ClientSampleId :

VF0315SBS01

Tot Ion:	128	Resp:	152812
Ion Ratio	Lower	Upper	
128	100		
127	12.6	9.3	13.9
129	11.1	8.8	13.2

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 21.091 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF061956.D

Acq: 15 Mar 2019 12:50

Tgt Ion:	180	Resp:	80863
Ion Ratio	Lower	Upper	
180	100		
182	95.7	50.2	150.7
145	33.4	17.5	52.5

