

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061803.D
 Acq On : 1 Mar 2019 15:27
 Operator : VA/AP
 Sample : VF0301SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/4/2019 4:00:46 PM

Quant Time: Mar 02 02:57:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	284168	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	434198	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	360372	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	200340	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	113739	54.58	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	109.16%	
35) Dibromofluoromethane	4.09	113	161561	50.11	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	100.22%	
50) Toluene-d8	7.53	98	451991	48.76	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.39	95	185174	49.37	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	91427	28.016	ug/l	98
3) Chloromethane	1.09	50	83812	24.478	ug/l	97
4) Vinyl Chloride	1.13	62	83871	26.349	ug/l	93
5) Bromomethane	1.32	94	53248	24.306	ug/l	94
6) Chloroethane	1.39	64	37575	23.954	ug/l	98
7) Trichlorofluoromethane	1.48	101	102057m	26.583	ug/l	
8) Diethyl Ether	1.62	74	21742	22.472	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	71014	25.641	ug/l #	88
10) Methyl Iodide	1.90	142	130318m	24.632	ug/l	
11) Tert butyl alcohol	2.56	59	14491	120.158	ug/l	97
12) 1,1-Dichloroethene	1.79	96	61869	25.408	ug/l	95
13) Acrolein	1.99	56	13297	87.727	ug/l	97
14) Allyl chloride	2.09	41	72149	24.146	ug/l	95
15) Acrylonitrile	2.92	53	46658	109.072	ug/l	93
16) Acetone	2.22	43	59074	132.127	ug/l	97
17) Carbon Disulfide	1.81	76	190095m	24.836	ug/l	
18) Methyl Acetate	2.33	43	22421	22.261	ug/l	97
19) Methyl tert-butyl Ether	2.42	73	96725	23.242	ug/l	95
20) Methylene Chloride	2.17	84	63462m	25.241	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	60392	22.815	ug/l	95
22) Diisopropyl ether	2.79	45	177308	24.720	ug/l	98
23) Vinyl Acetate	3.17	43	422851	120.701	ug/l	99
24) 1,1-Dichloroethane	2.86	63	111492	25.686	ug/l	98
25) 2-Butanone	4.31	43	117018	119.821	ug/l	97
26) 2,2-Dichloropropane	3.58	77	43724	23.781	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	83683	24.085	ug/l	97
28) Bromochloromethane	3.69	49	44452	21.344	ug/l	84
29) Tetrahydrofuran	4.06	42	48211	108.614	ug/l	97
30) Chloroform	3.84	83	125933	25.512	ug/l	97
31) Cyclohexane	3.66	56	111388m	23.705	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	69966	21.637	ug/l	98
36) 1,1-Dichloropropene	4.26	75	101745	23.655	ug/l	94
37) Ethyl Acetate	4.09	43	42757	21.402	ug/l #	81
38) Carbon Tetrachloride	3.97	117	71982	24.236	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	110893	21.800	ug/l	98
40) Benzene	4.61	78	258796	23.003	ug/l	99
41) Methacrylonitrile	4.73	41	21583	21.125	ug/l	92
42) 1,2-Dichloroethane	4.93	62	66309	24.639	ug/l	96
43) Isopropyl Acetate	6.94	43	49639	20.991	ug/l #	98
44) Trichloroethene	5.48	130	82872	22.778	ug/l	90
45) 1,2-Dichloropropane	6.22	63	61331	22.552	ug/l	92
46) Dibromomethane	6.07	93	38548	23.022	ug/l	90
47) Bromodichloromethane	6.37	83	88924	24.252	ug/l	98
48) Methyl methacrylate	6.69	41	30142	21.180	ug/l	97
49) 1,4-Dioxane	6.68	88	5994	448.049	ug/l #	86
51) 4-Methyl-2-Pentanone	8.24	43	184424	109.144	ug/l	98
52) Toluene	7.60	92	161901	23.728	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	69967	22.927	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	101920	25.074	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	44839	22.366	ug/l	94
56) Ethyl methacrylate	8.59	69	47851	21.438	ug/l #	92
57) 1,3-Dichloropropane	8.83	76	70982	21.213	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	39773	103.279	ug/l	98
59) 2-Hexanone	9.47	43	136921	115.598	ug/l	96
60) Dibromochloromethane	8.69	129	62124	22.264	ug/l	89
61) 1,2-Dibromoethane	8.97	107	47162	21.689	ug/l	96
64) Tetrachloroethene	8.13	164	71154	24.156	ug/l	96
65) Chlorobenzene	9.78	112	171608	23.467	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	65244	22.769	ug/l	94
67) Ethyl Benzene	9.88	91	276875	22.767	ug/l	99
68) m/p-Xylenes	10.11	106	224262	48.185	ug/l	99
69) o-Xylene	10.69	106	119961	24.155	ug/l	83
70) Styrene	10.77	104	168611	23.999	ug/l	98
71) Bromoform	10.75	173	33611	21.601	ug/l	89
73) Isopropylbenzene	11.11	105	339412	23.795	ug/l	99
74) N-amyl acetate	11.36	43	81583	23.829	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	55987	21.909	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	38957	22.423	ug/l	98
77) Bromobenzene	11.48	156	78647	22.319	ug/l	96
78) n-propylbenzene	11.58	91	403802	24.670	ug/l	99
79) 2-Chlorotoluene	11.70	91	220617	24.066	ug/l	93
80) 1,3,5-Trimethylbenzene	11.81	105	284146	24.925	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	19239m	23.098	ug/l	
82) 4-Chlorotoluene	11.89	91	231674	24.349	ug/l	95
83) tert-Butylbenzene	12.11	119	306094	24.241	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	285649	25.221	ug/l	98
85) sec-Butylbenzene	12.29	105	394517	24.161	ug/l	97
86) p-Isopropyltoluene	12.45	119	324894	23.708	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	160204	23.320	ug/l	99
88) 1,4-Dichlorobenzene	12.55	146	158235	23.951	ug/l	99
89) n-Butylbenzene	12.83	91	313967	24.263	ug/l	97
90) Hexachloroethane	12.90	117	76269	23.930	ug/l	94
91) 1,2-Dichlorobenzene	12.93	146	152920	23.403	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8882	21.922	ug/l	75

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ClientSampleId :
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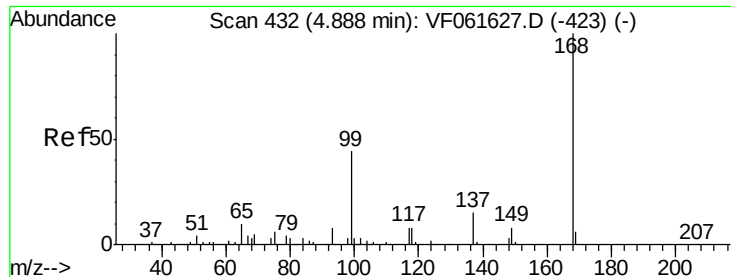
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	106317	22.700	ug/l	99
94) Hexachlorobutadiene	14.18	225	69084	23.883	ug/l	95
95) Naphthalene	14.44	128	179572	21.914	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	99019	23.034	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion:168 Resp: 284168

Ion Ratio Lower Upper

168 100

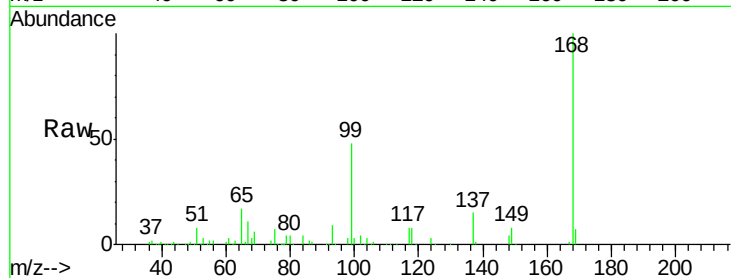
99 48.1 34.9 52.3

Manual Integrations

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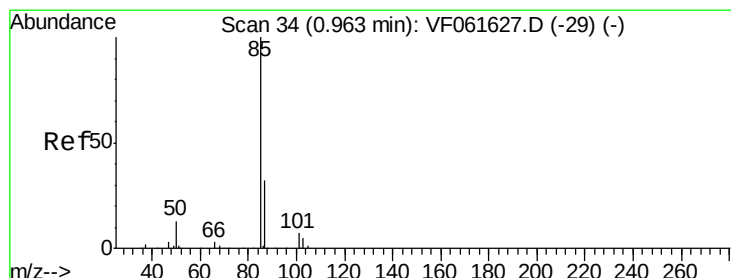
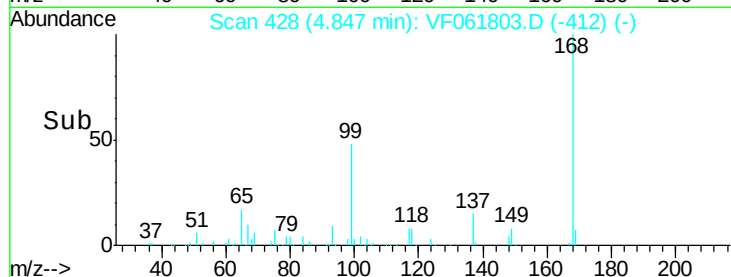
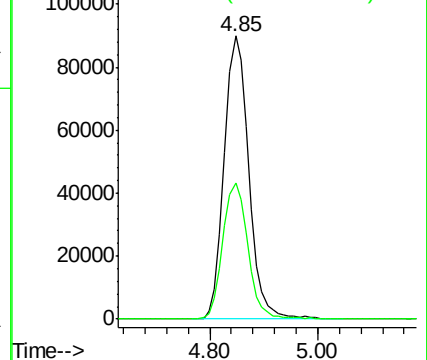
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 28.016 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061803.D

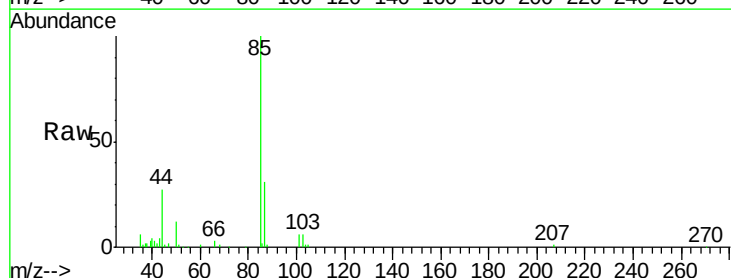
Acq: 1 Mar 2019 15:27

Tgt Ion: 85 Resp: 91427

Ion Ratio Lower Upper

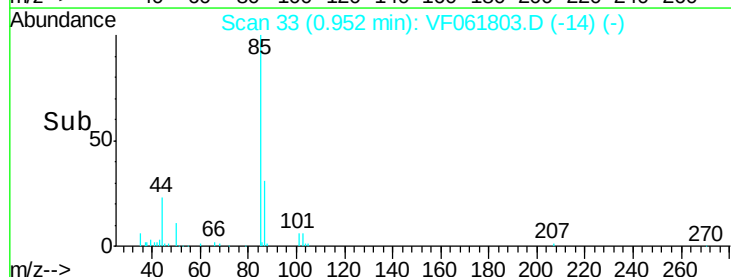
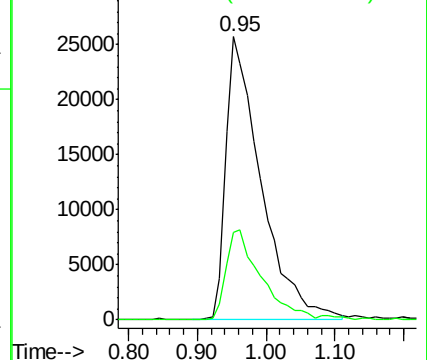
85 100

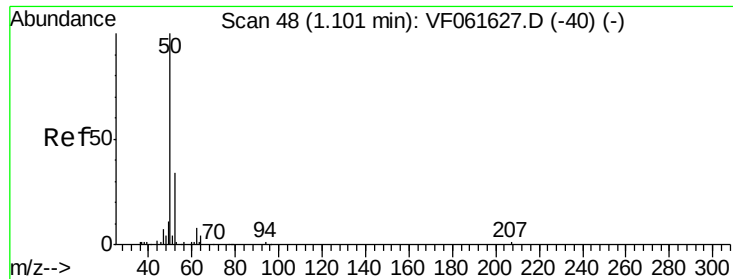
87 30.8 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 24.478 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 50 Resp: 83812

Ion Ratio Lower Upper

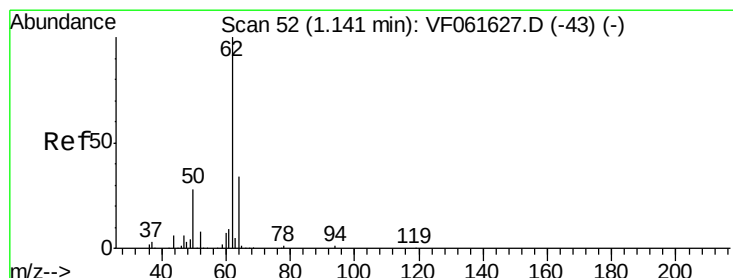
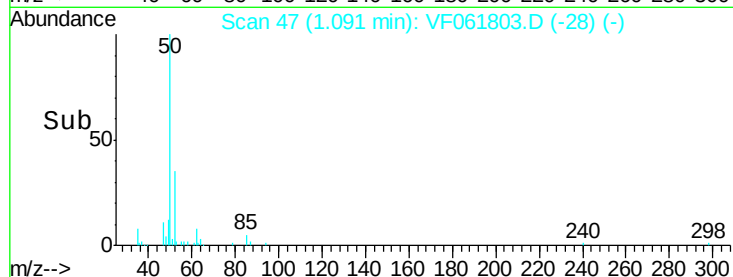
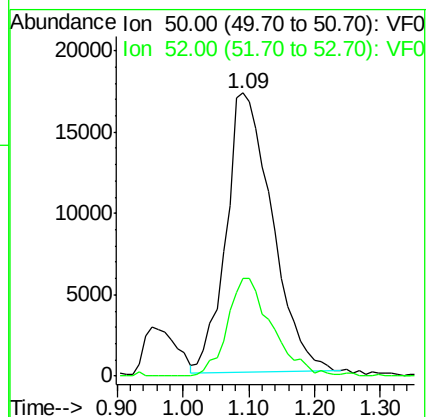
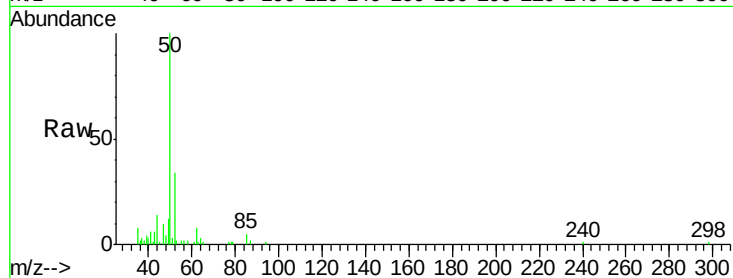
50 100

52 34.4 26.2 39.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 26.349 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061803.D

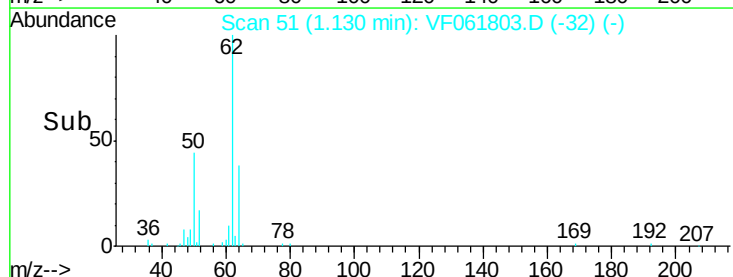
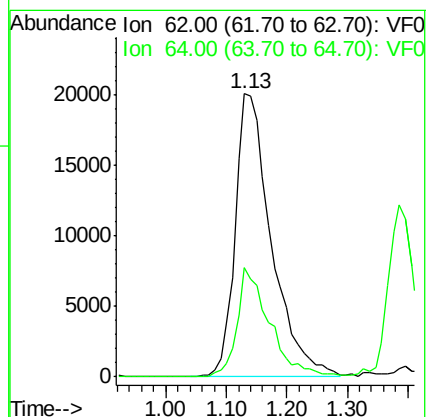
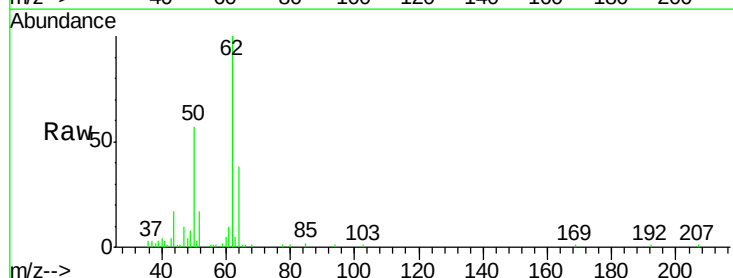
Acq: 1 Mar 2019 15:27

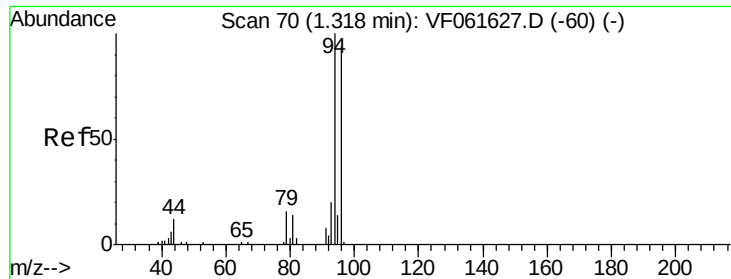
Tgt Ion: 62 Resp: 83871

Ion Ratio Lower Upper

62 100

64 38.4 27.5 41.3





#5

Bromomethane

Concen: 24.306 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 94 Resp: 53248

Ion Ratio Lower Upper

94 100

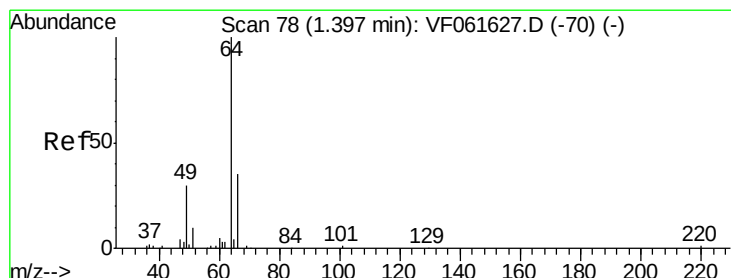
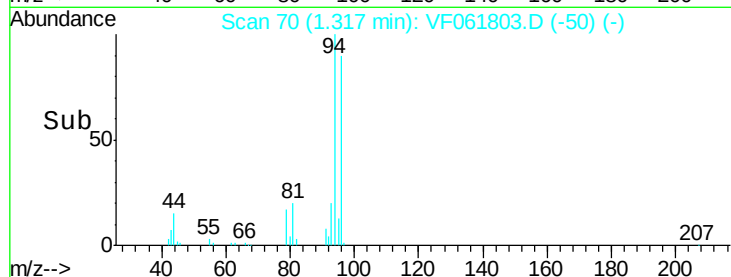
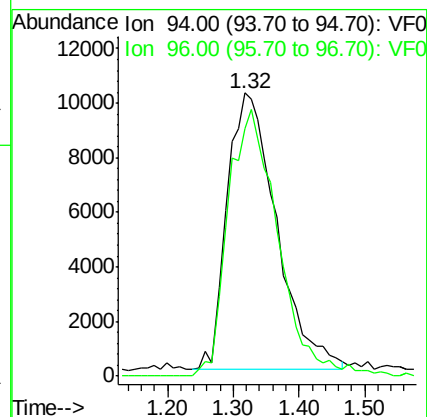
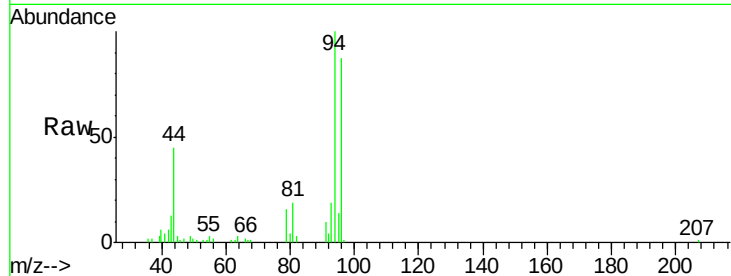
96 87.4 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 23.954 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061803.D

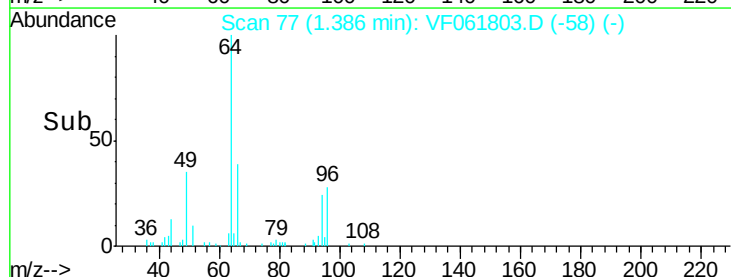
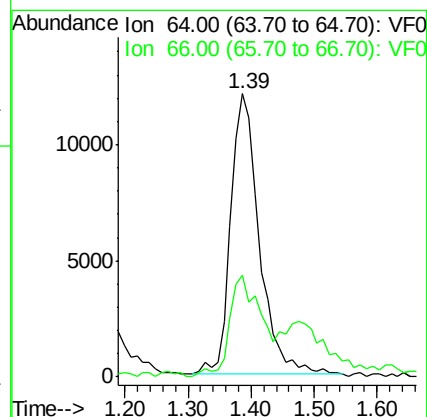
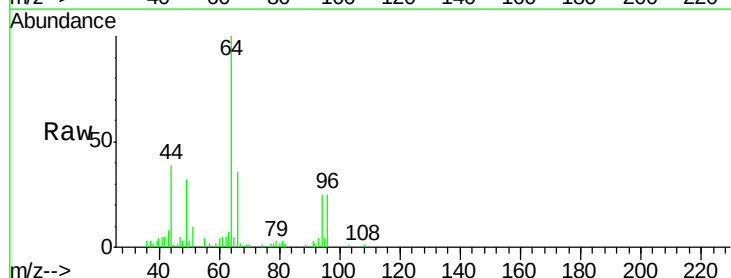
Acq: 1 Mar 2019 15:27

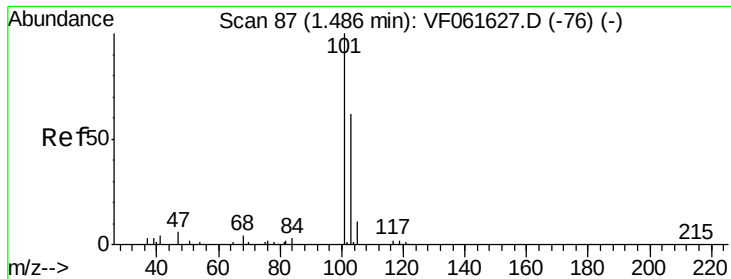
Tgt Ion: 64 Resp: 37575

Ion Ratio Lower Upper

64 100

66 35.8 27.9 41.9





#7

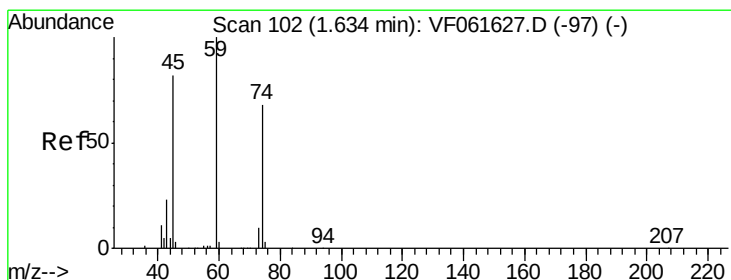
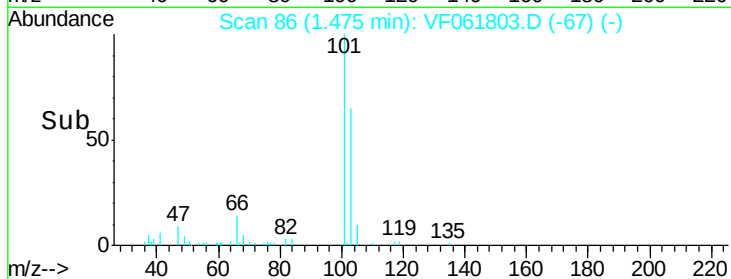
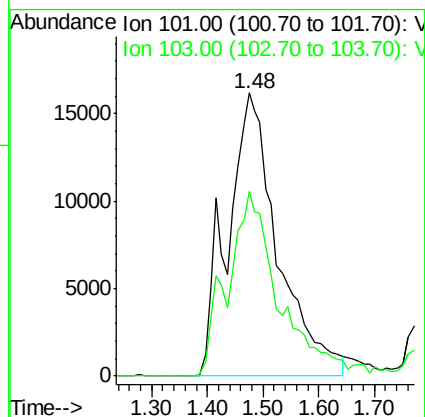
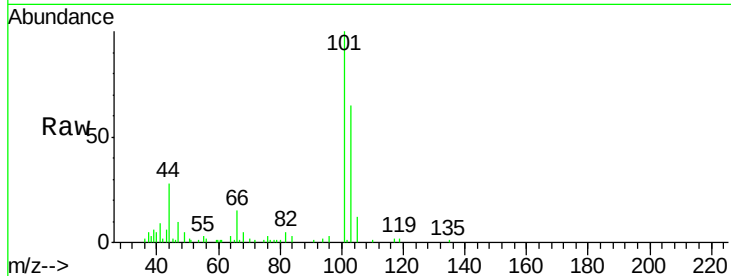
Trichlorofluoromethane
Concen: 26.583 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

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MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion:101 Resp: 102057
Ion Ratio Lower Upper
101 100
103 65.1 49.3 73.9

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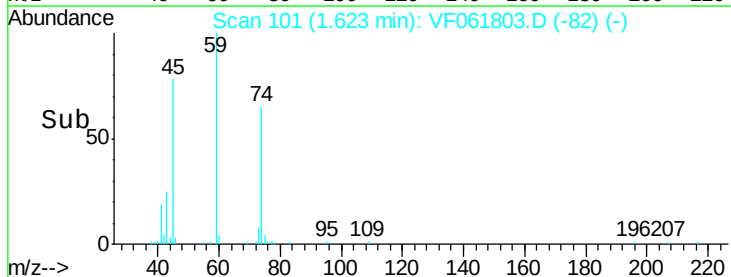
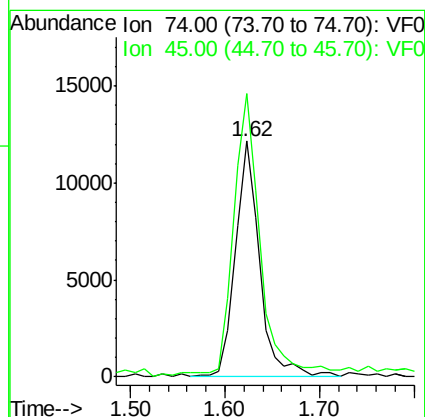
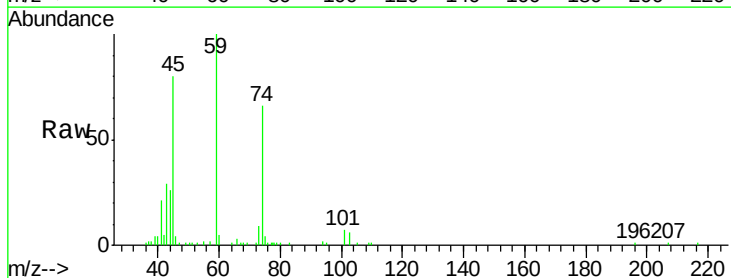
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3/4/2019 4:00:46 PM

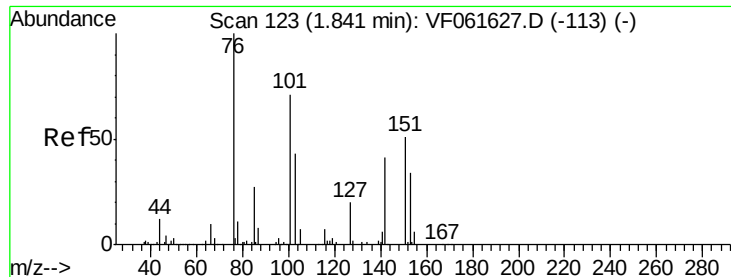


#8

Diethyl Ether
Concen: 22.472 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 74 Resp: 21742
Ion Ratio Lower Upper
74 100
45 120.2 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.641 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

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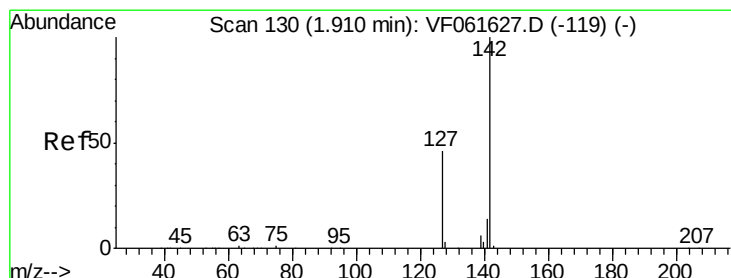
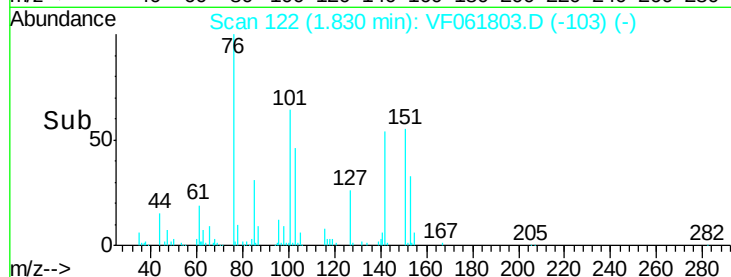
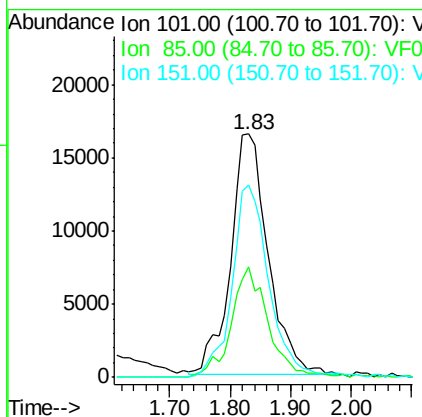
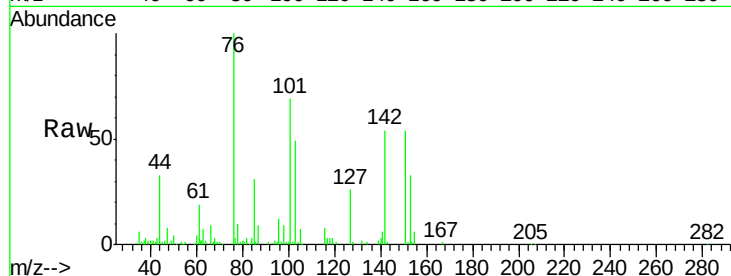
ClientSampleId :

VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	71014		
85	45.4	29.8	44.6#	
151	79.3	56.3	84.5	

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#10

Methyl Iodide

Concen: 24.632 ug/l m

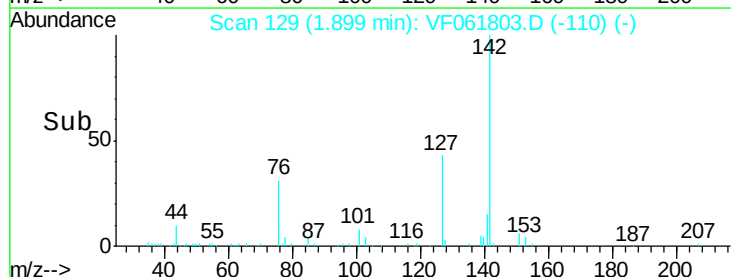
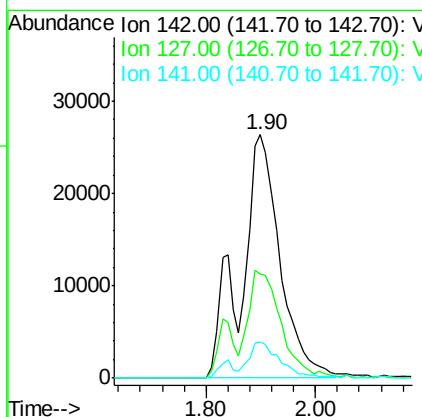
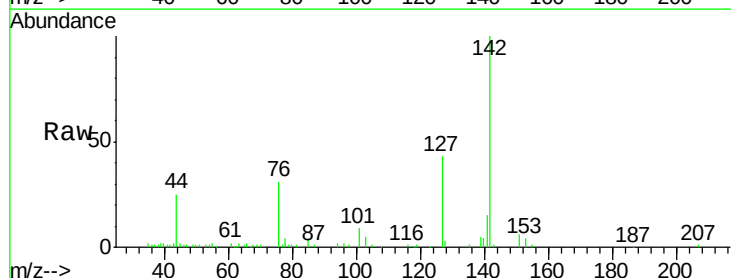
RT: 1.90 min Scan# 129

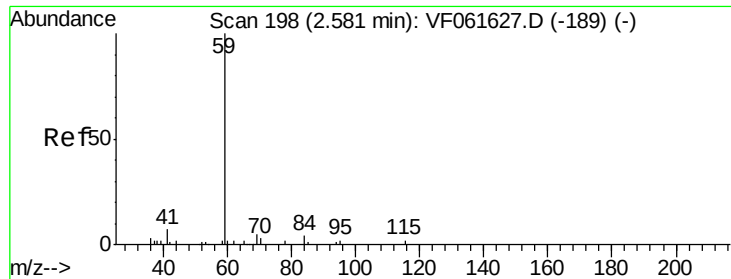
Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	130318		
127	42.8	36.6	55.0	
141	14.8	11.0	16.6	





#11

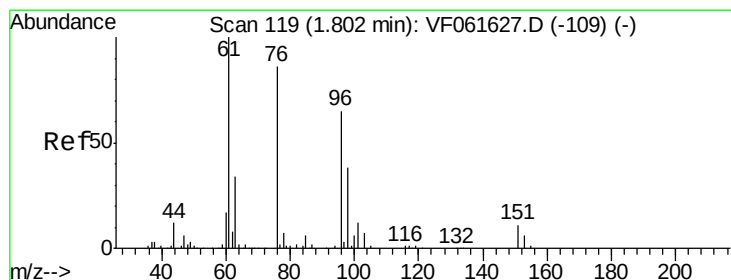
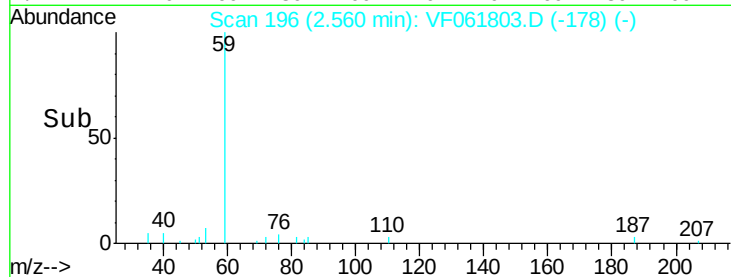
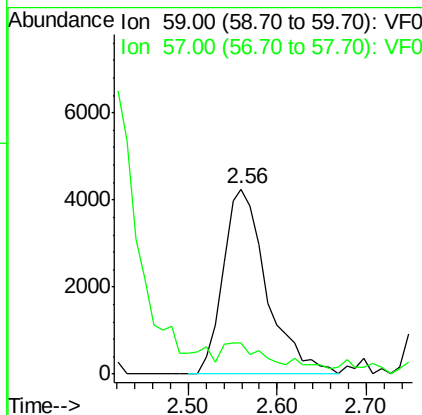
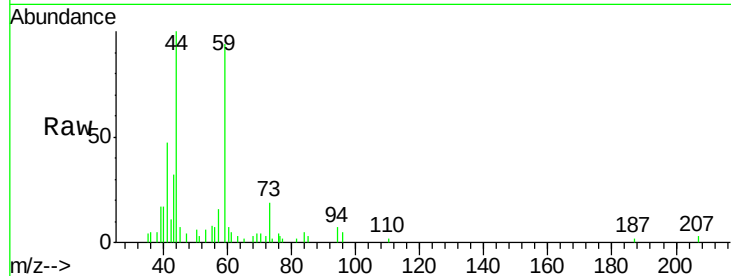
Tert butyl alcohol
Concen: 120.158 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	59	Resp	14491
Ion Ratio	100	Lower	Upper
57	16.9	12.5	18.7

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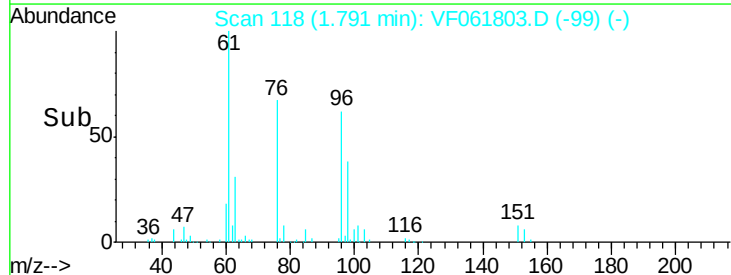
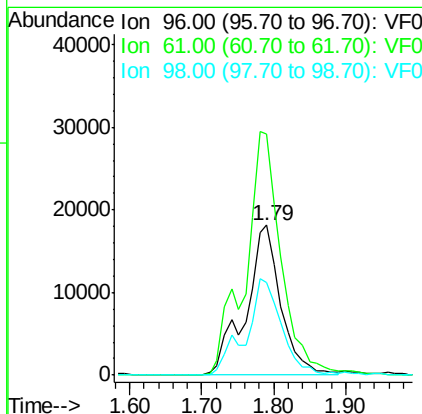
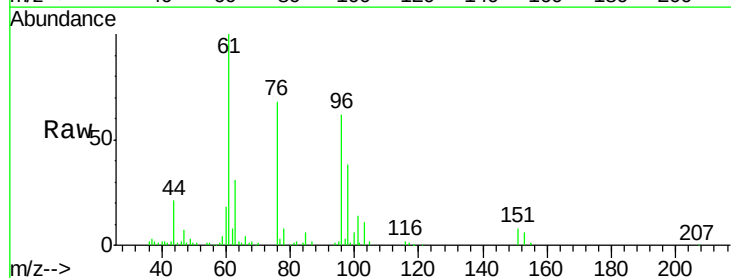
MMDadoda
3/4/2019 4:00:46 PM

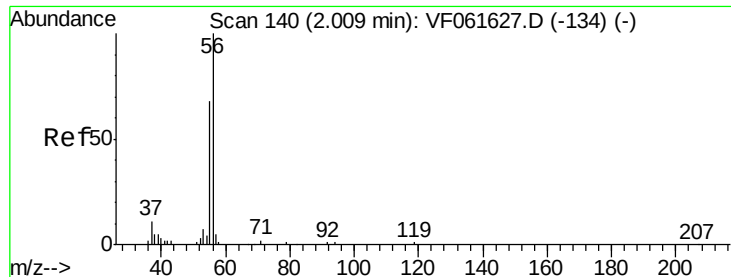


#12

1,1-Dichloroethene
Concen: 25.408 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	96	Resp	61869
Ion Ratio	100	Lower	Upper
61	160.7	122.6	184.0
98	61.6	47.2	70.8





#13

Acrolein

Concen: 87.727 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 56 Resp: 13297

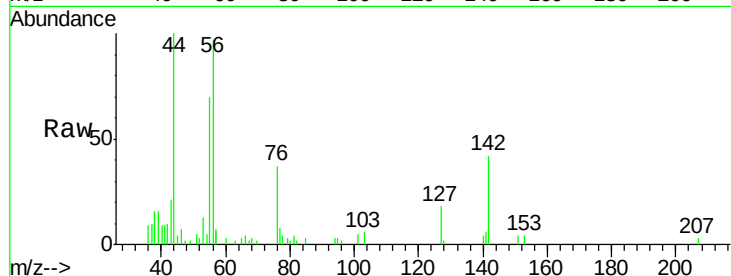
Ion Ratio Lower Upper

56 100

55 71.4 55.0 82.6

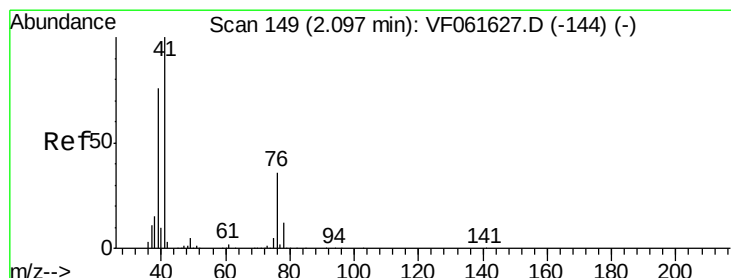
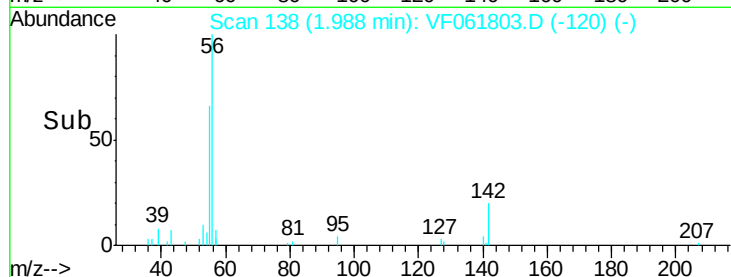
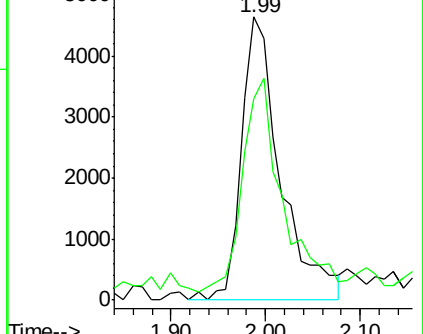
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 24.146 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

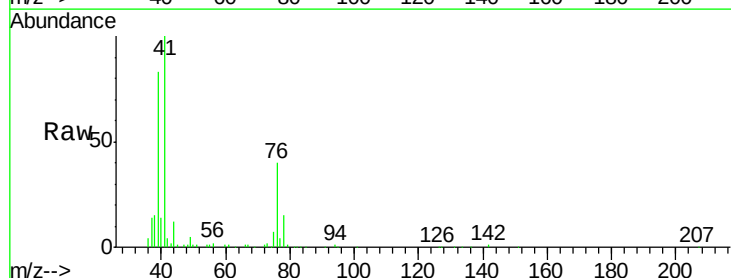
Tgt Ion: 41 Resp: 72149

Ion Ratio Lower Upper

41 100

39 82.9 61.6 92.4

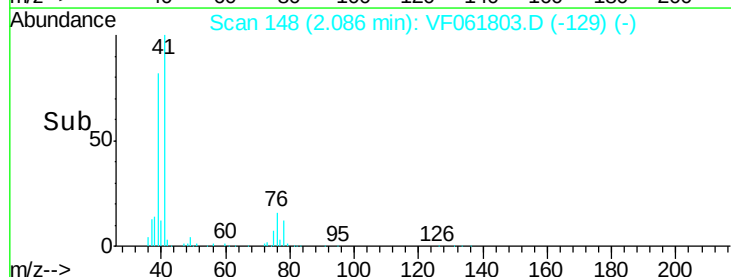
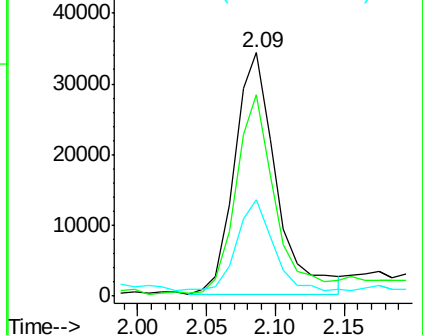
76 39.5 30.3 45.5

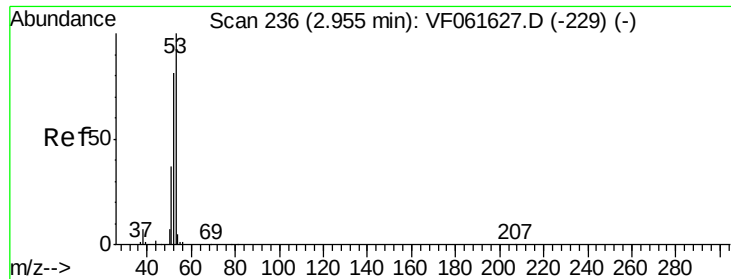


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 109.072 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

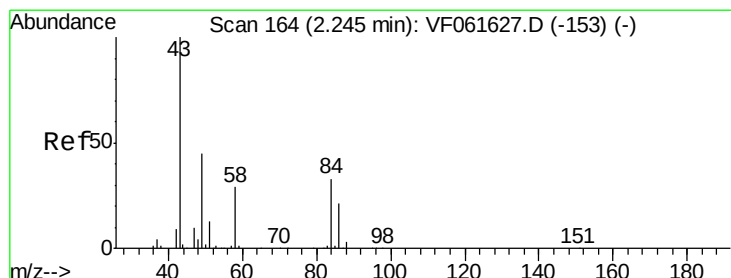
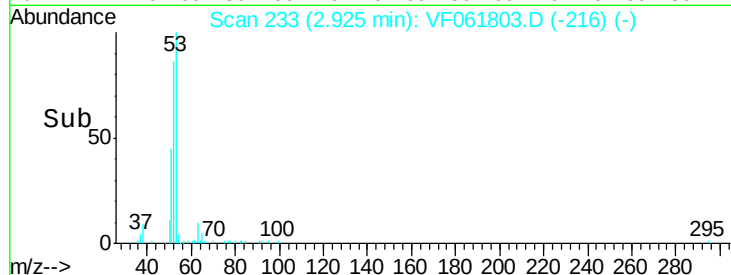
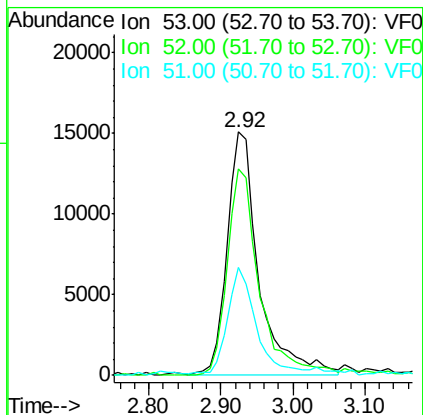
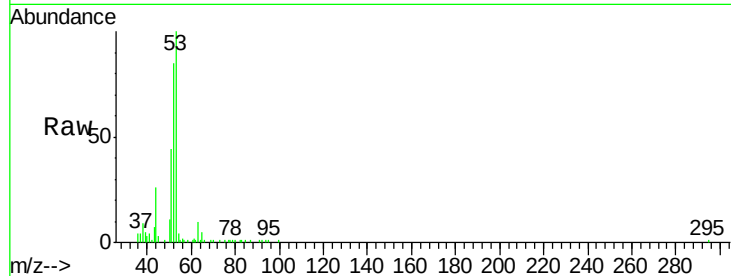
ClientSampleId :

VF0301SBS01

Tot Ion:	53	Resp:	46658
Ion	Ratio	Lower	Upper
53	100		
52	84.8	64.6	97.0
51	44.4	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 132.127 ug/l

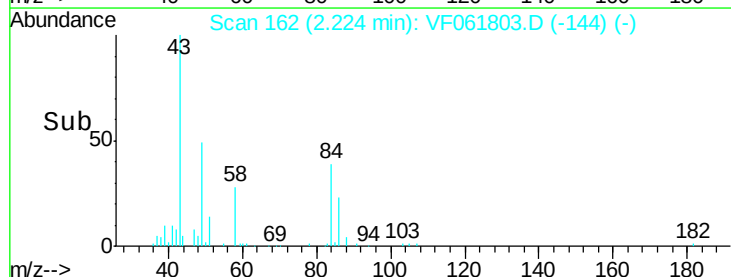
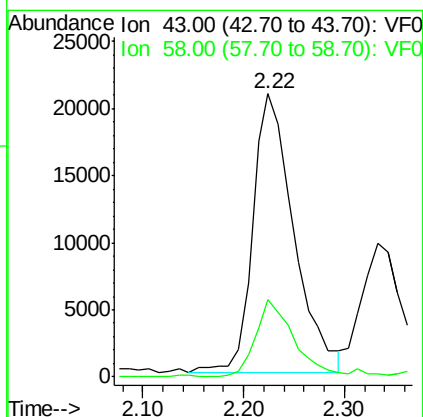
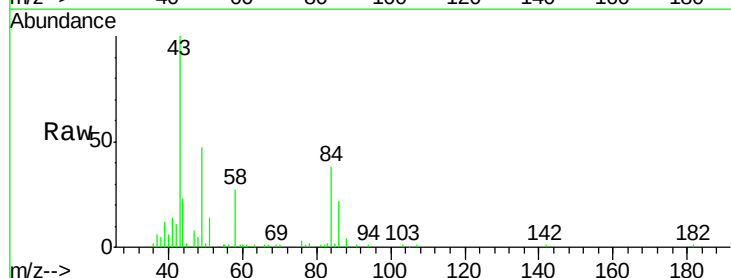
RT: 2.22 min Scan# 162

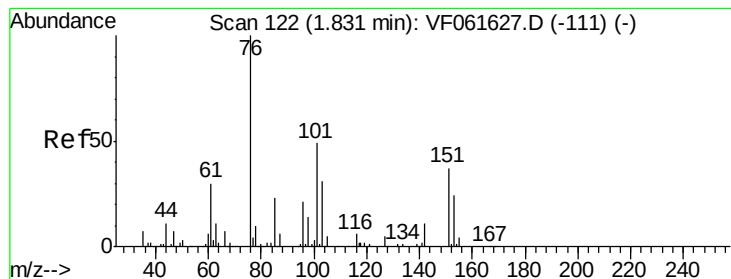
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	43	Resp:	59074
Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.9	34.3





#17

Carbon Disulfide

Concen: 24.836 ug/l m

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tot Ion: 76 Resp: 190095

Ion Ratio Lower Upper

76 100

78 11.3 7.9 11.9

Instrument :

MSVOA_F

ClientSampleId :

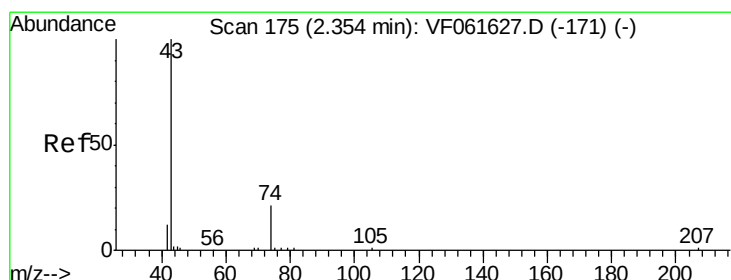
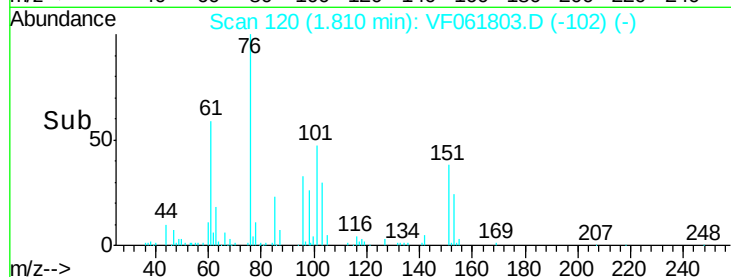
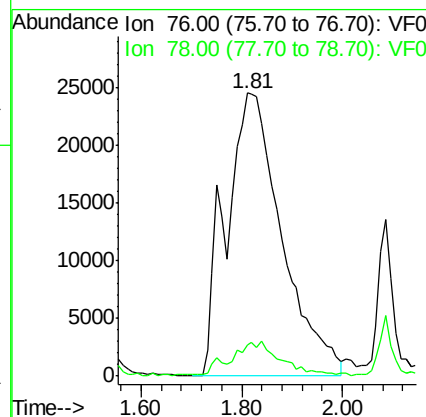
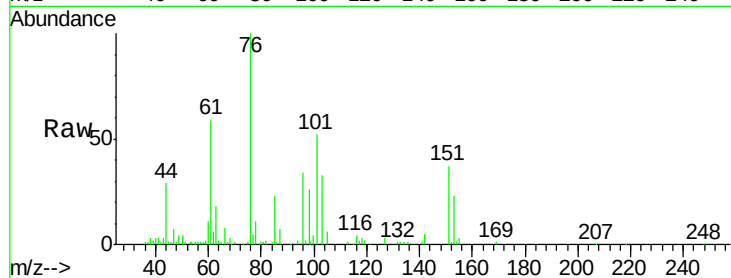
VF0301SBS01

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3/4/2019 4:00:46 PM



#18

Methyl Acetate

Concen: 22.261 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.02 min

Lab File: VF061803.D

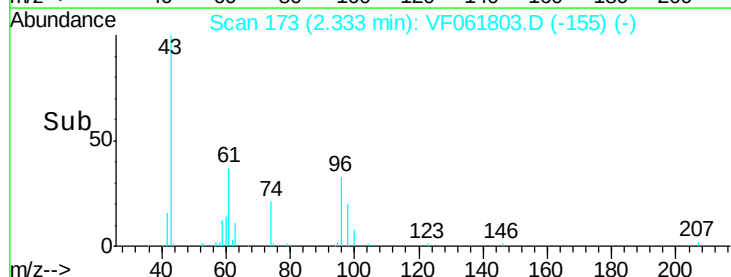
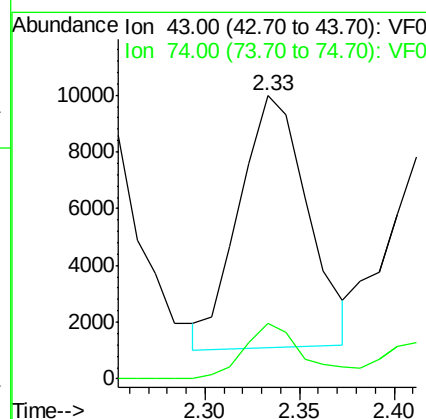
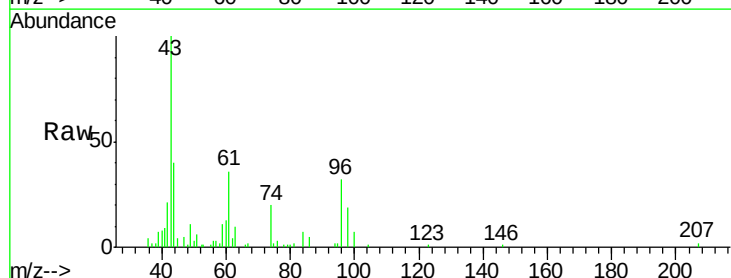
Acq: 1 Mar 2019 15:27

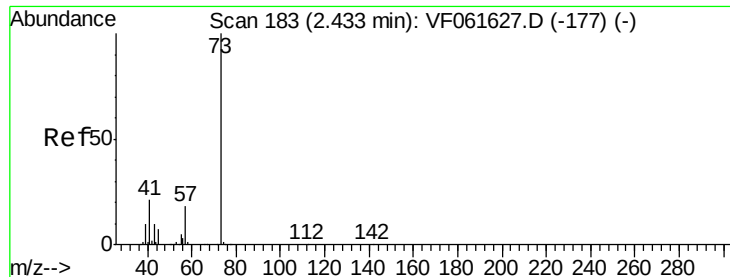
Tgt Ion: 43 Resp: 22421

Ion Ratio Lower Upper

43 100

74 19.6 14.6 21.8





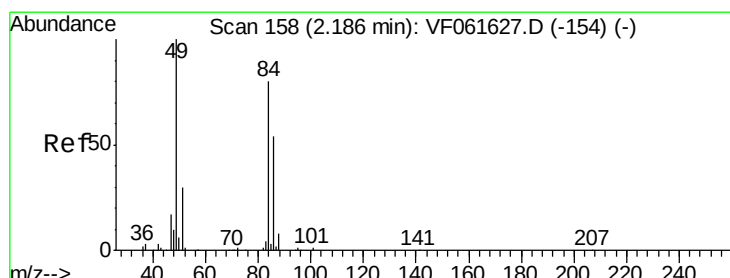
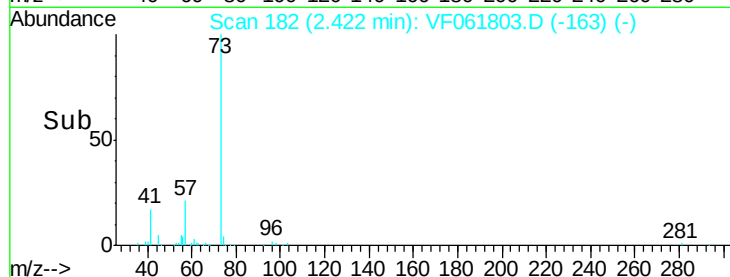
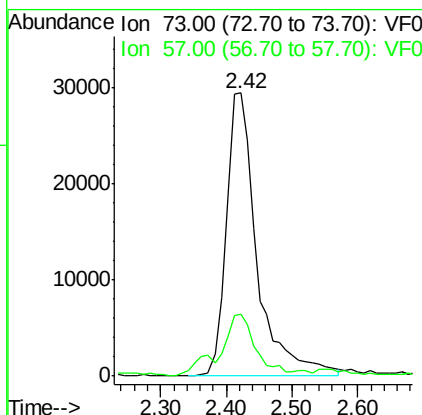
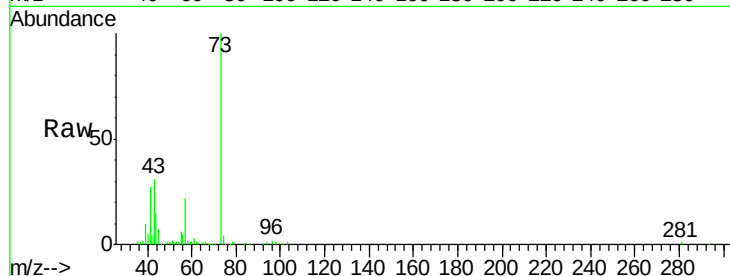
#19
Methyl tert-butyl Ether
Concen: 23.242 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion: 73 Resp: 96725
Ion Ratio Lower Upper
73 100
57 22.0 15.8 23.8

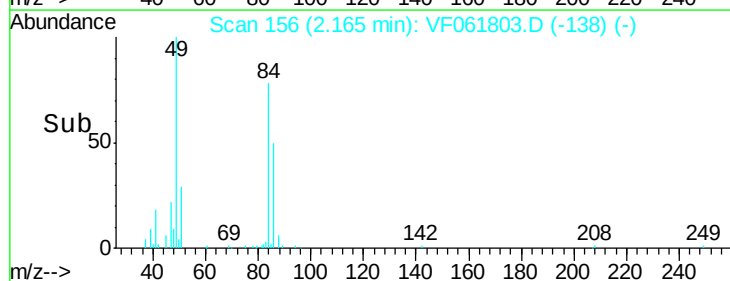
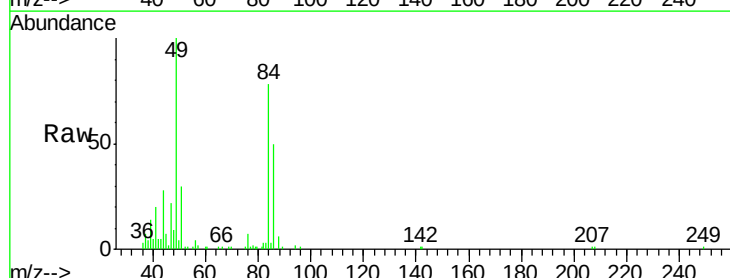
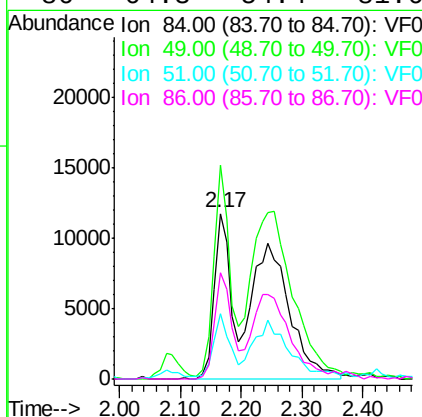
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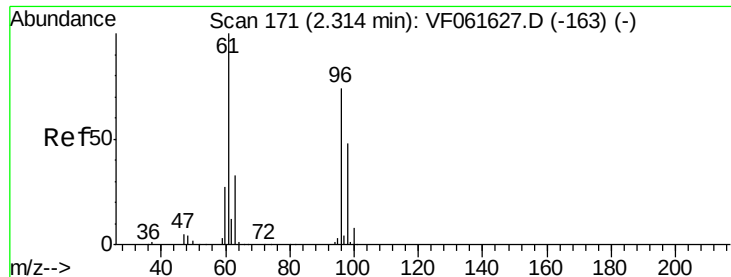
MMDadoda
3/4/2019 4:00:46 PM



#20
Methylene Chloride
Concen: 25.241 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion: 84 Resp: 63462
Ion Ratio Lower Upper
84 100
49 129.0 101.8 152.8
51 39.3 31.1 46.7
86 64.3 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 22.815 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

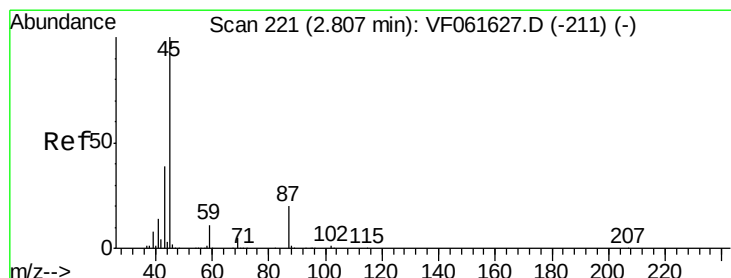
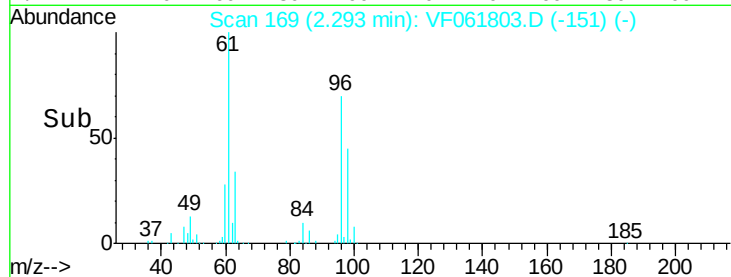
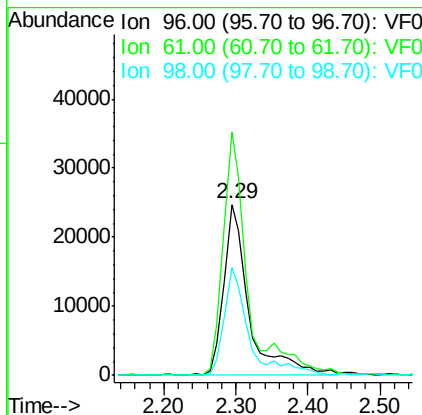
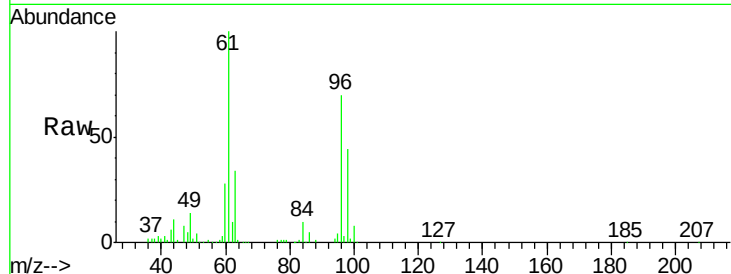
ClientSampleId :

VF0301SBS01

Tot Ion:	96	Resp:	60392
Ion	Ratio	Lower	Upper
96	100		
61	142.5	108.2	162.4
98	63.2	52.2	78.2

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#22

Diisopropyl ether

Concen: 24.720 ug/l

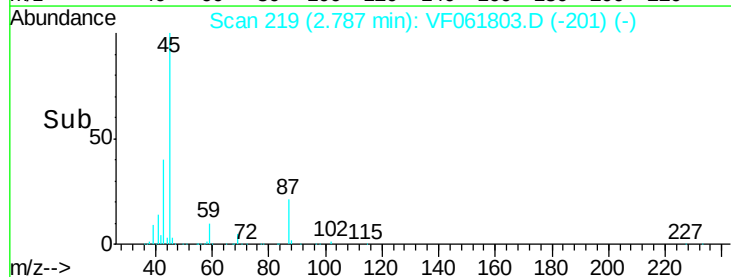
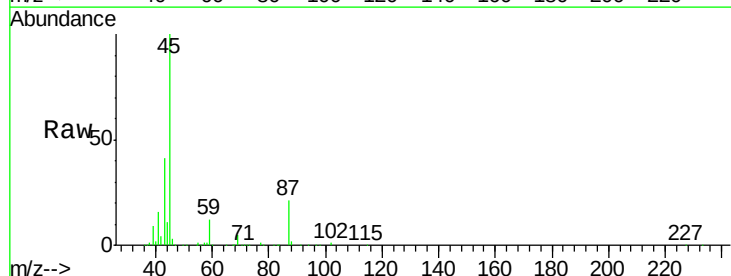
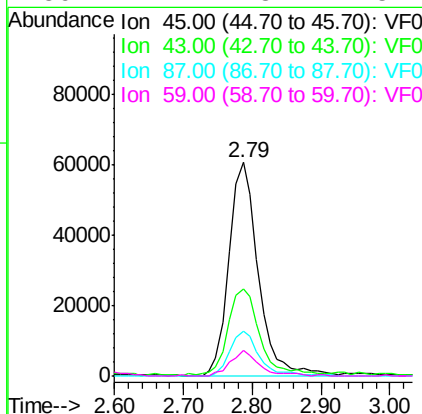
RT: 2.79 min Scan# 219

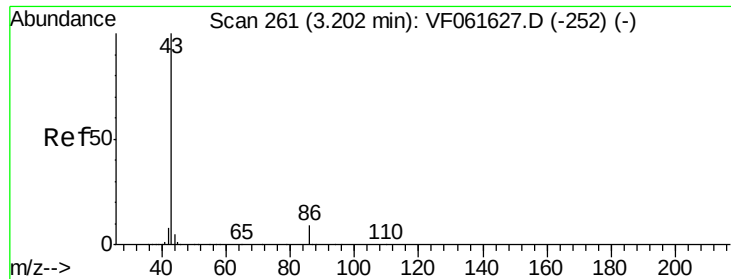
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	45	Resp:	177308
Ion	Ratio	Lower	Upper
45	100		
43	40.8	31.4	47.2
87	20.8	16.3	24.5
59	11.7	8.7	13.1





#23

Vinyl Acetate

Concen: 120.701 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 43 Resp: 422851

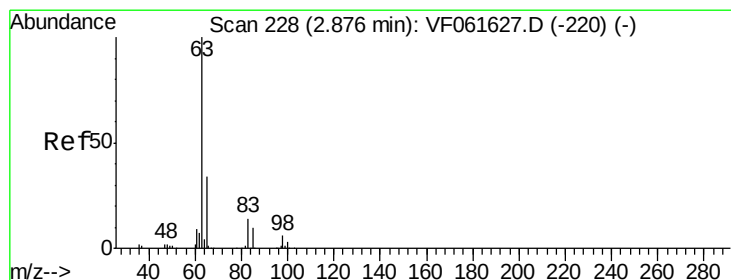
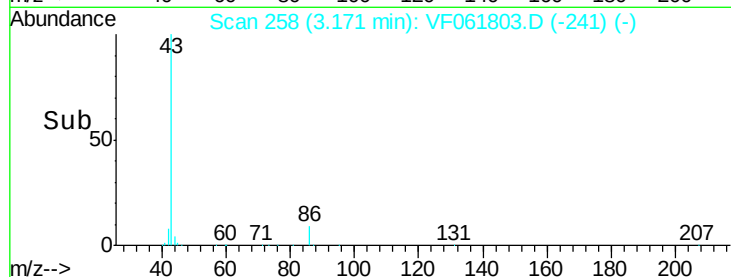
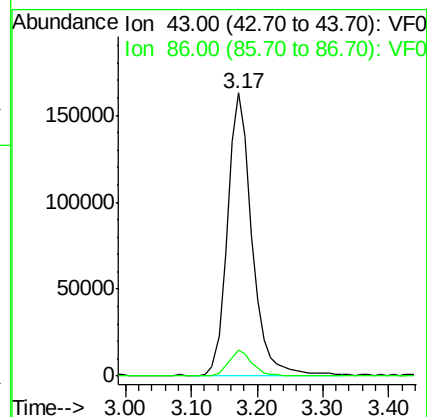
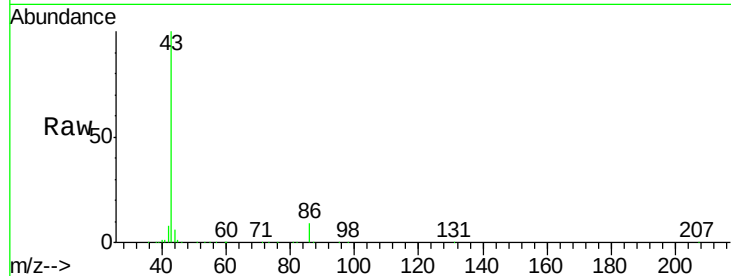
Ion Ratio Lower Upper

43 100

86 9.2 7.5 11.3

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#24

1,1-Dichloroethane

Concen: 25.686 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

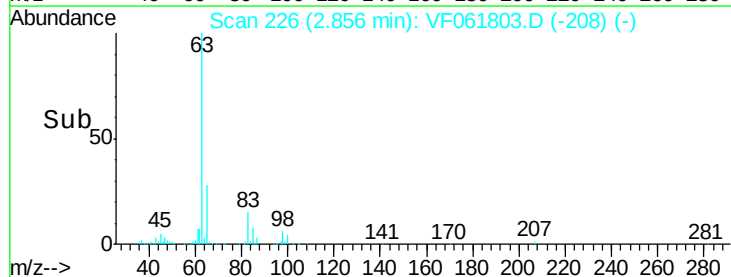
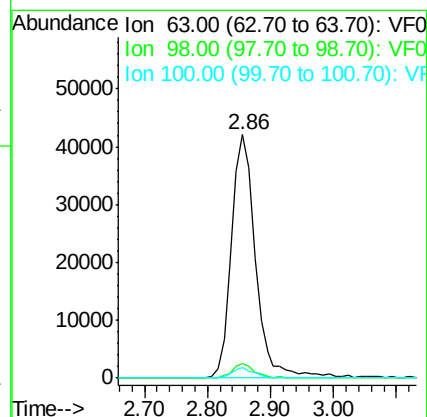
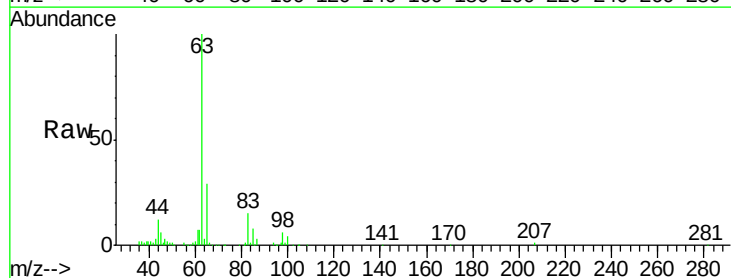
Tgt Ion: 63 Resp: 111492

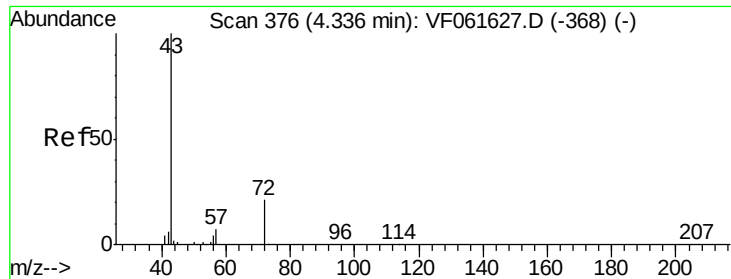
Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.3

100 4.3 1.8 5.4





#25

2-Butanone

Concen: 119.821 ug/l

RT: 4.31 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 43 Resp: 117018

Ion Ratio Lower Upper

43 100

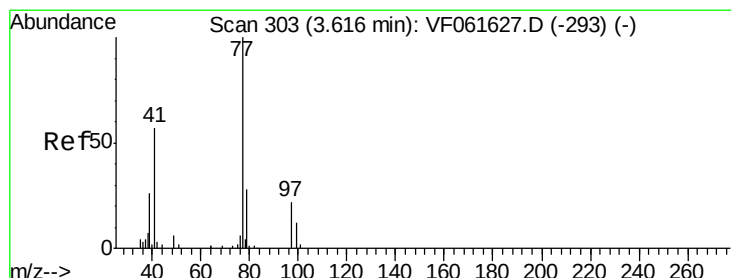
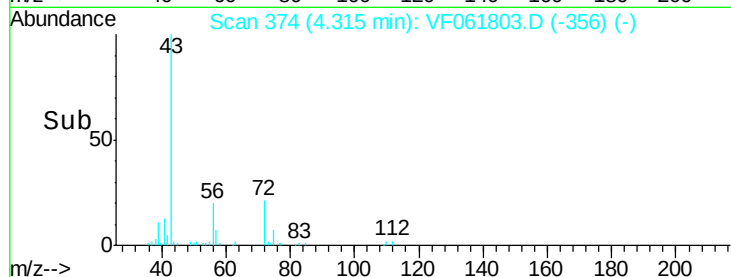
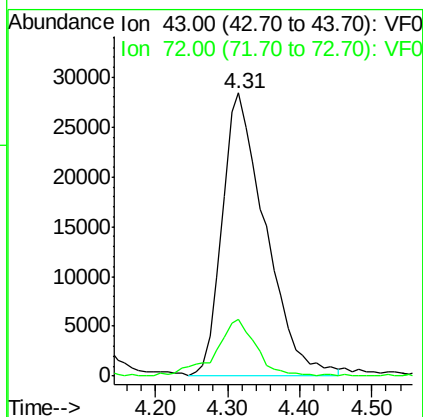
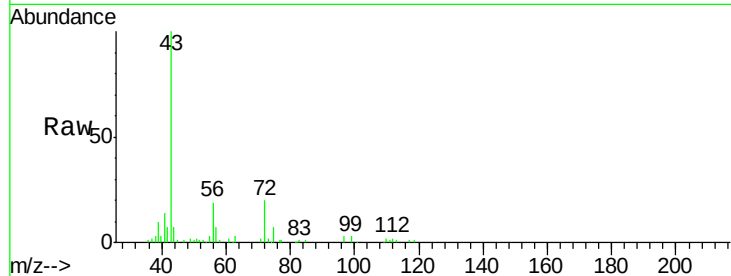
72 20.0 17.1 25.7

Manual Integrations

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3/4/2019 4:00:46 PM



#26

2,2-Dichloropropane

Concen: 23.781 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061803.D

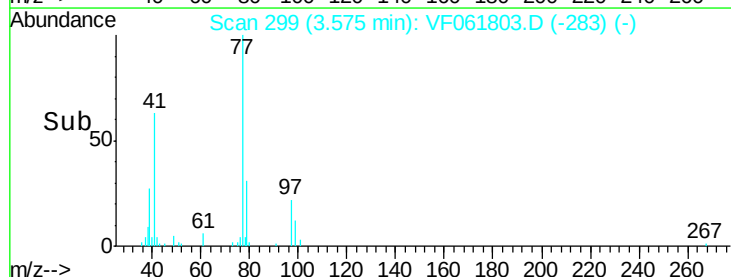
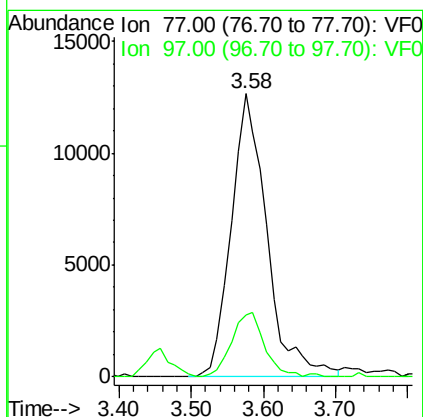
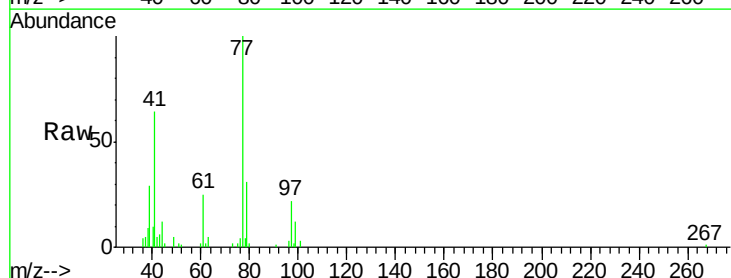
Acq: 1 Mar 2019 15:27

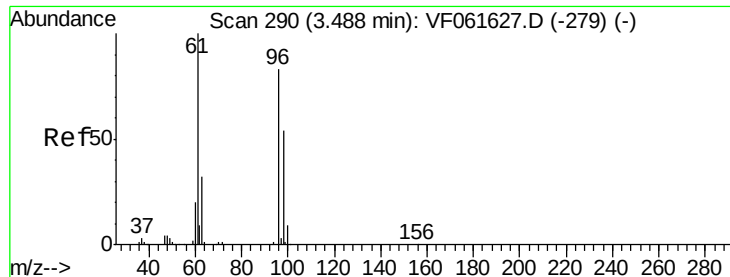
Tgt Ion: 77 Resp: 43724

Ion Ratio Lower Upper

77 100

97 21.9 11.7 35.0





#27

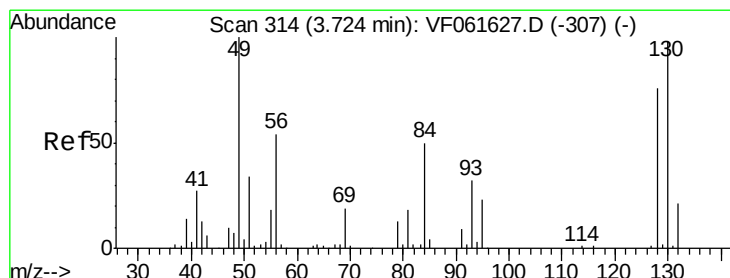
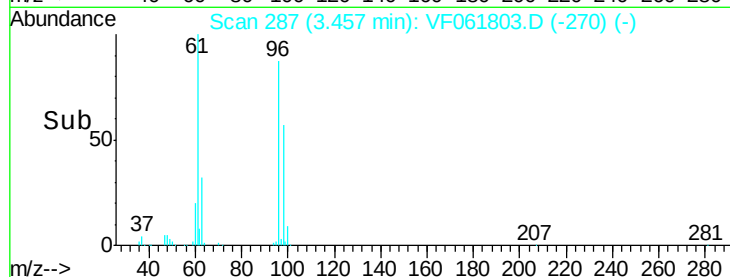
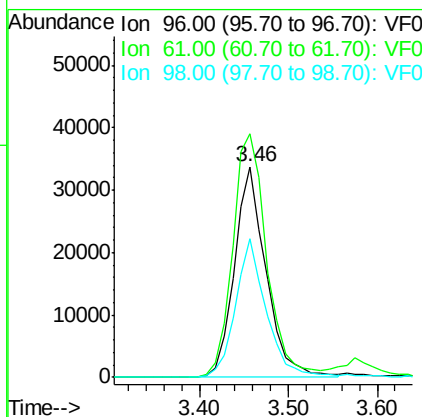
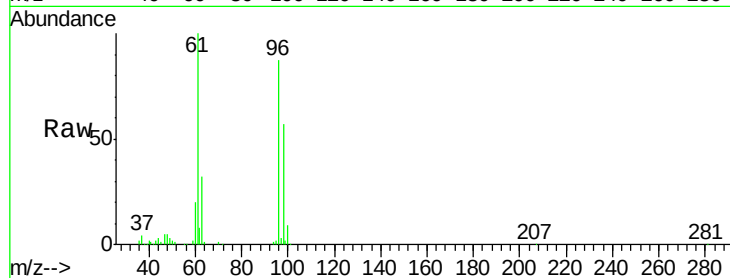
cis-1,2-Dichloroethene
Concen: 24.085 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	115.4	0.0	241.6
98	65.8	0.0	130.2

Manual Integrations
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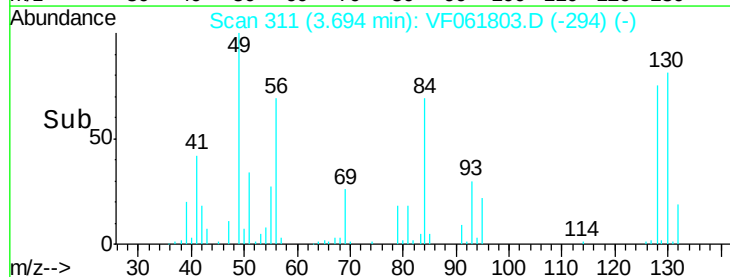
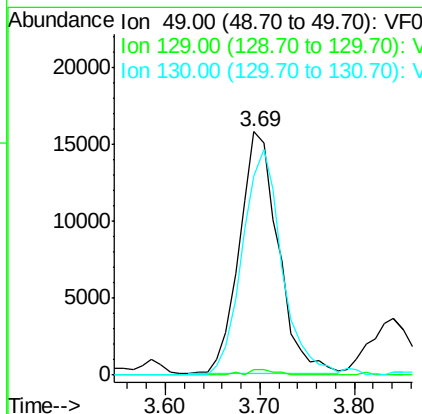
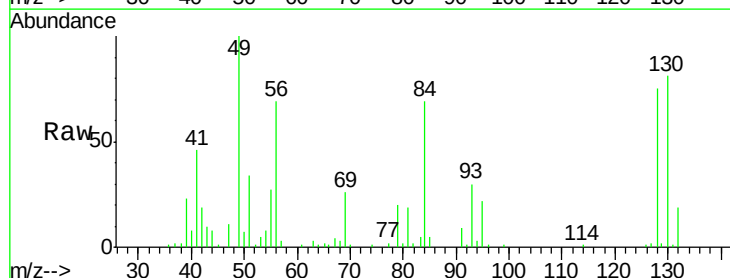
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3/4/2019 4:00:46 PM

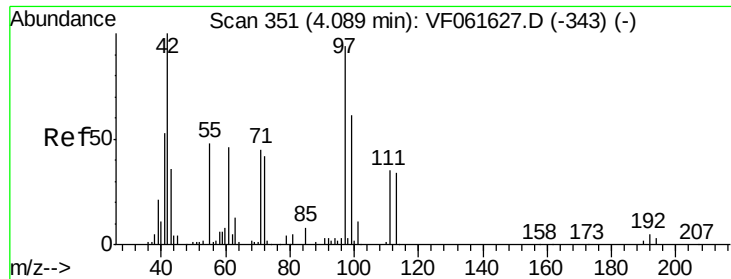


#28

Bromochloromethane
Concen: 21.344 ug/l
RT: 3.69 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.4
130	81.5	77.7	116.5





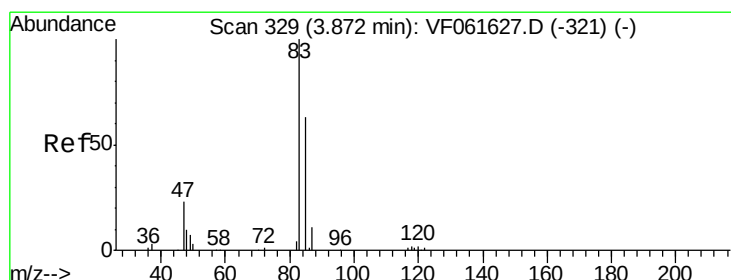
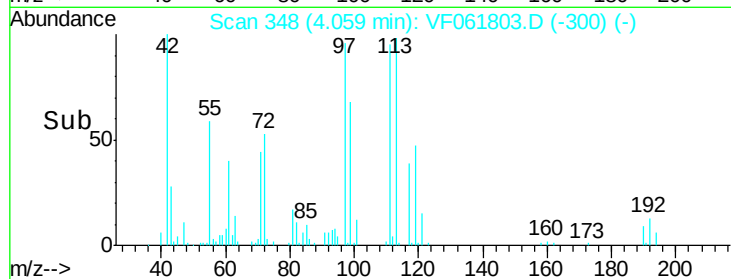
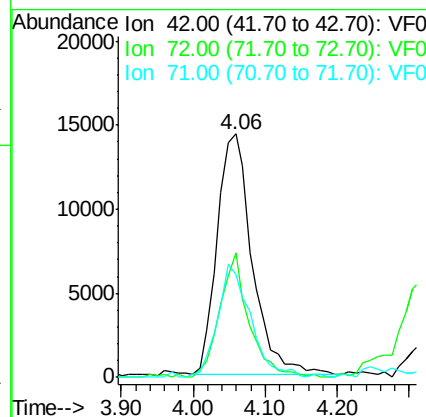
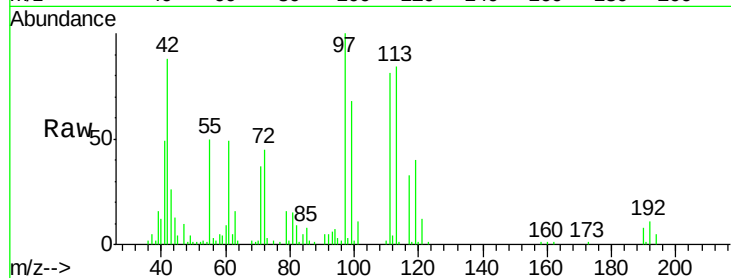
#29
Tetrahydrofuran
Concen: 108.614 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	48211		
72	43.1		35.2	52.8
71	44.0		32.9	49.3

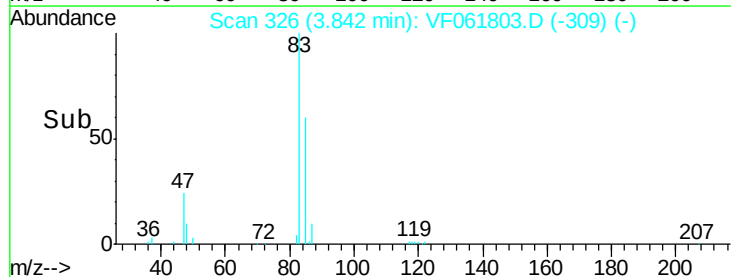
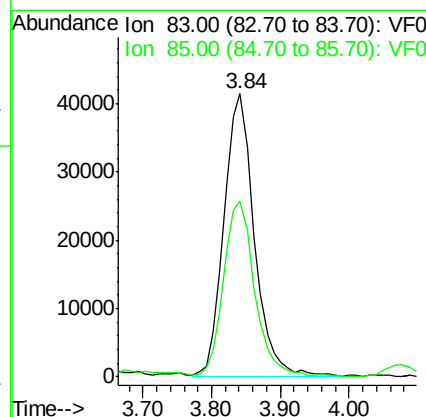
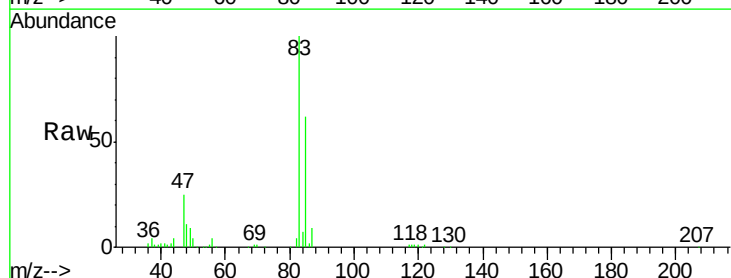
Manual Integrations
APPROVED

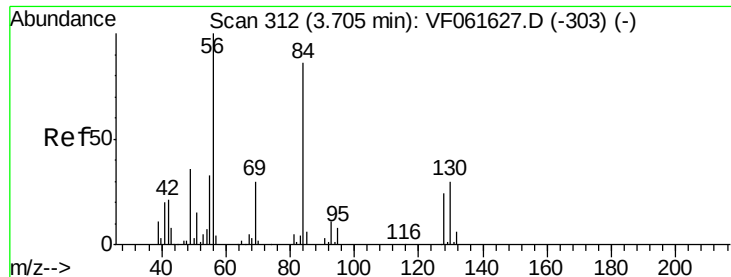
MMDadoda
3/4/2019 4:00:46 PM



#30
Chloroform
Concen: 25.512 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	125933		
85	61.9		51.1	76.7





#31

Cyclohexane

Concen: 23.705 ug/l m

RT: 3.66 min Scan# 308

Delta R.T. -0.04 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

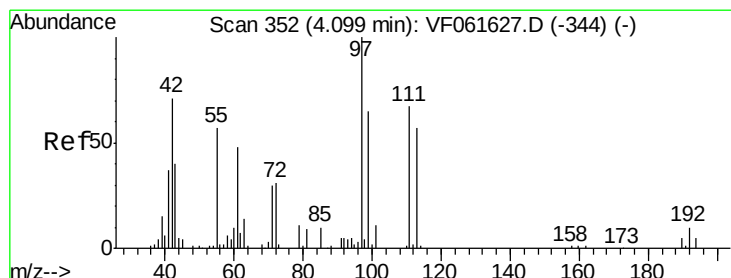
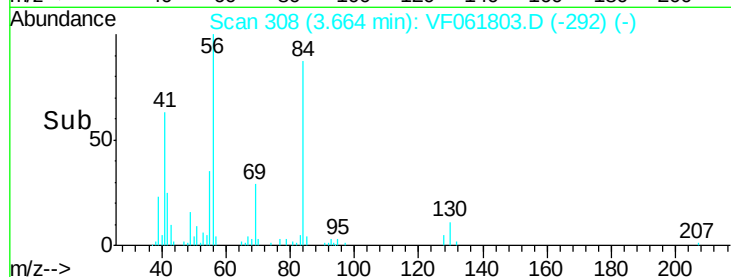
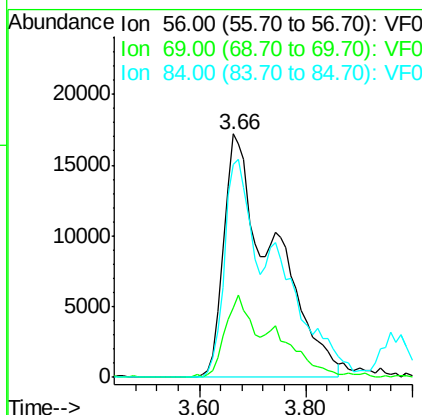
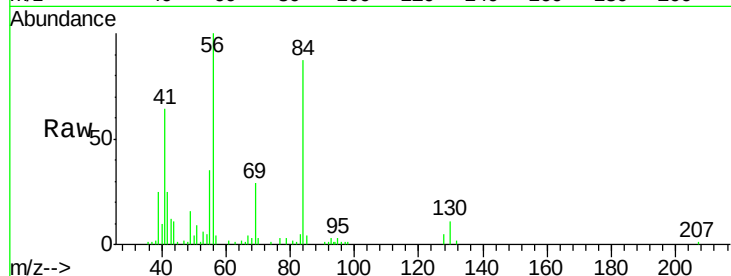
ClientSampleId :

VF0301SBS01

Tot Ion:	56	Resp:	111388
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.8	35.8
84	87.3	68.6	103.0

Manual Integrations
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3/4/2019 4:00:46 PM



#32

1,1,1-Trichloroethane

Concen: 21.637 ug/l

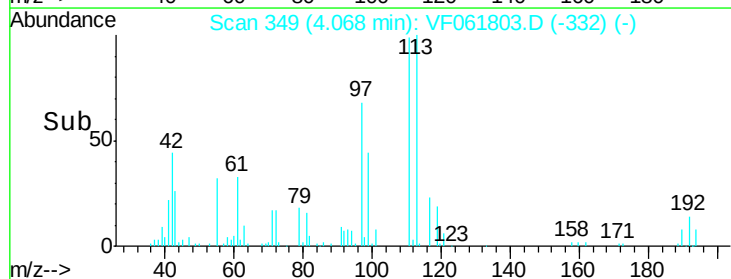
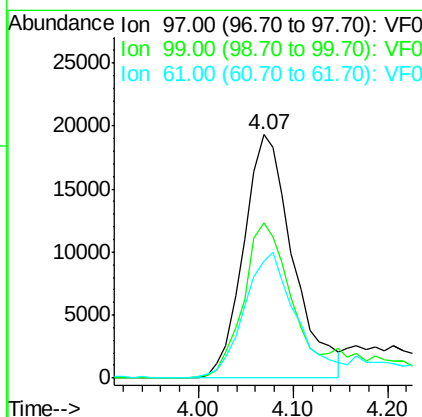
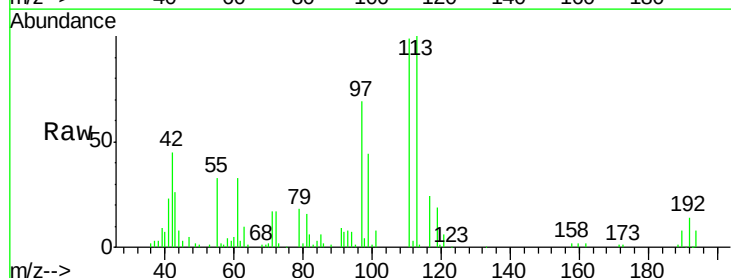
RT: 4.07 min Scan# 349

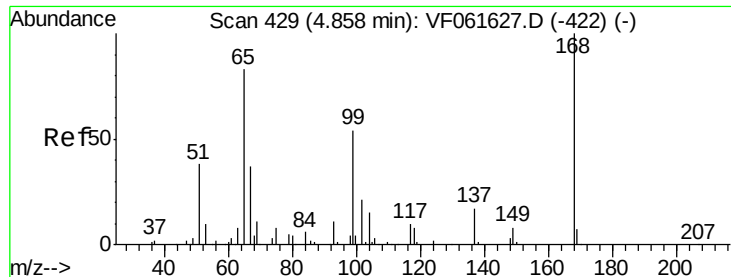
Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	97	Resp:	69966
Ion	Ratio	Lower	Upper
97	100		
99	63.9	52.2	78.2
61	48.1	39.2	58.8





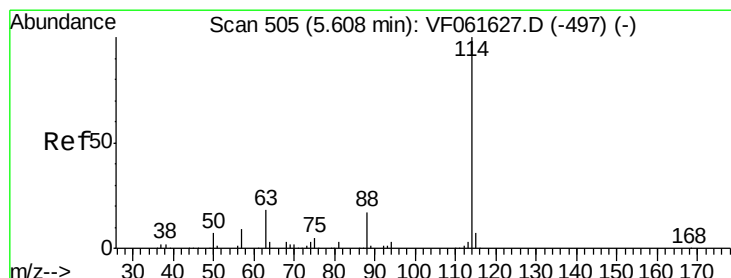
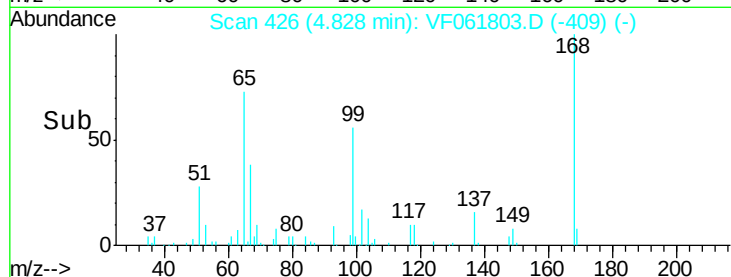
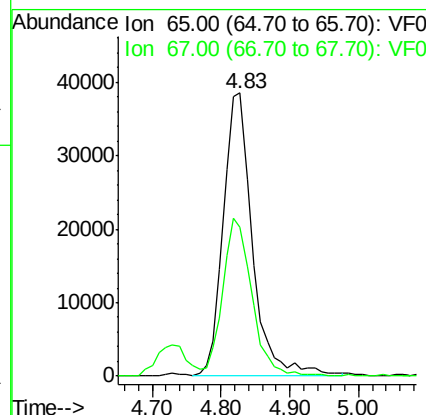
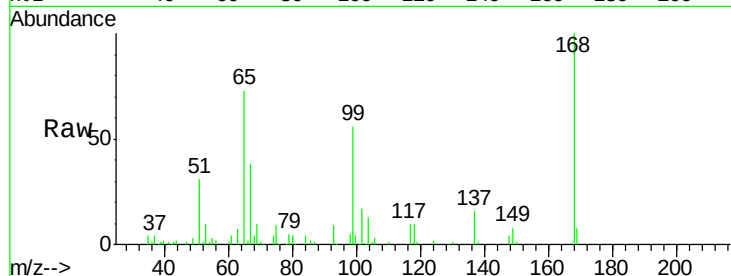
#33
 1,2-Dichloroethane-d4
 Concen: 54.581 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	113739		
67	52.7	0.0	104.0	

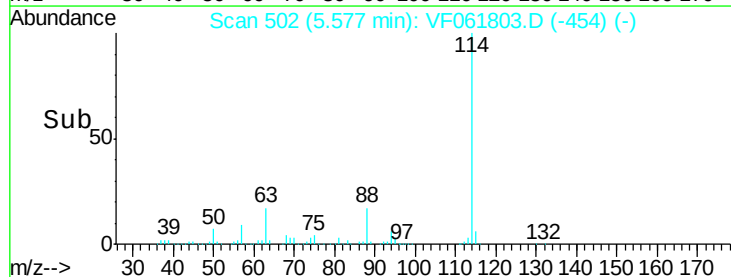
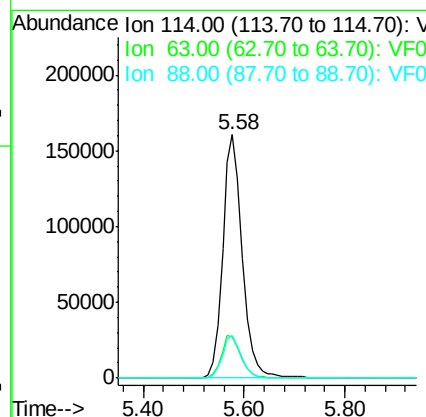
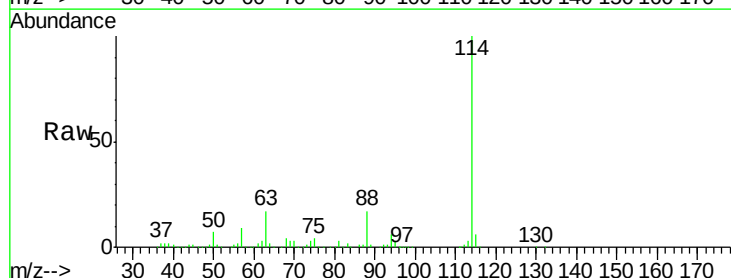
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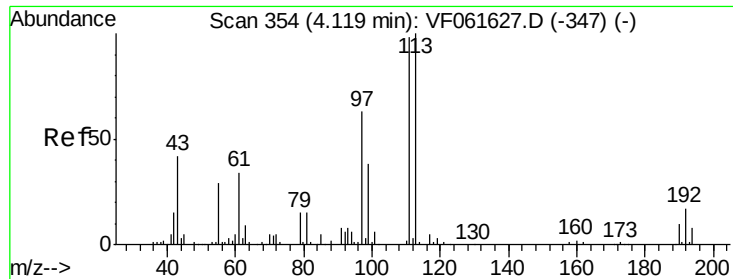
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 3/4/2019 4:00:46 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	434198		
63	16.9	0.0	36.6	
88	17.3	0.0	34.4	





#35

Dibromofluoromethane

Concen: 50.106 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

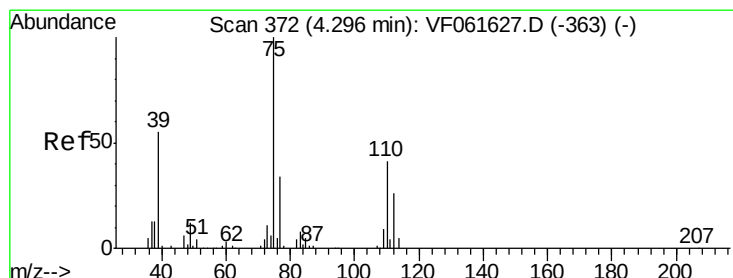
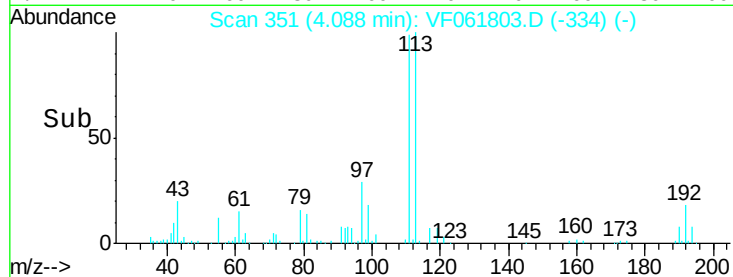
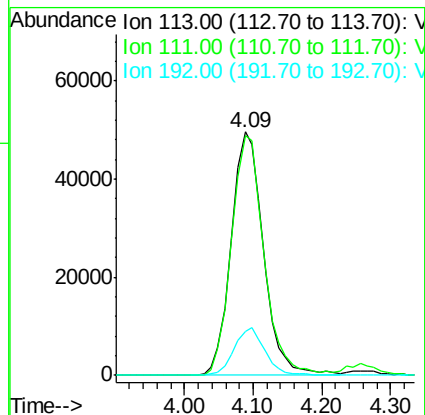
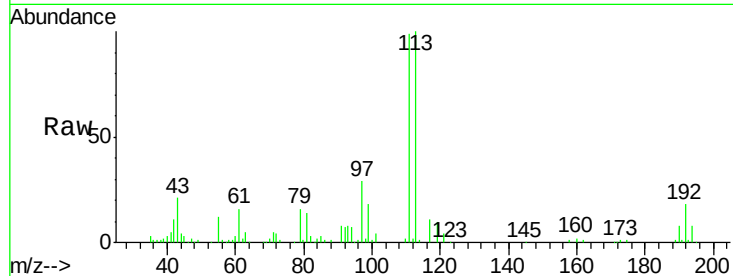
ClientSampleId :

VF0301SBS01

Tot Ion:	113	Resp:	161561
Ion Ratio	Lower	Upper	
113	100		
111	98.6	78.8	118.2
192	18.1	13.4	20.0

Manual Integrations
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3/4/2019 4:00:46 PM



#36

1,1-Dichloropropene

Concen: 23.655 ug/l

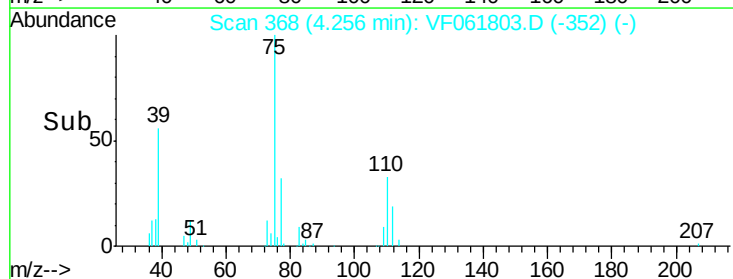
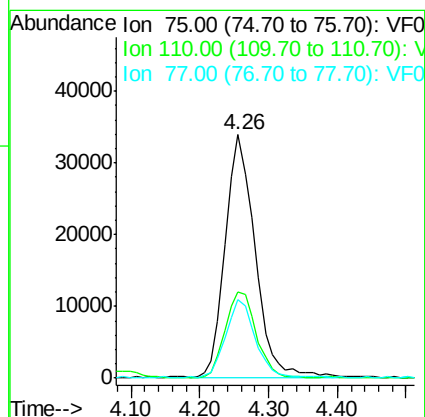
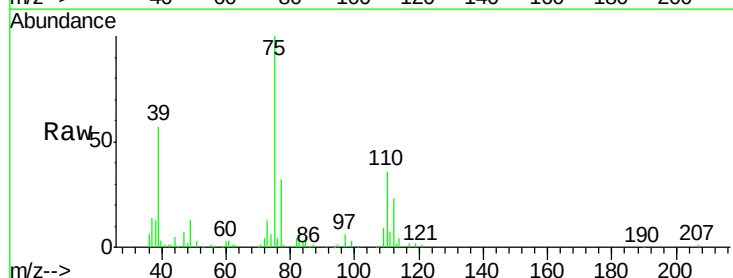
RT: 4.26 min Scan# 368

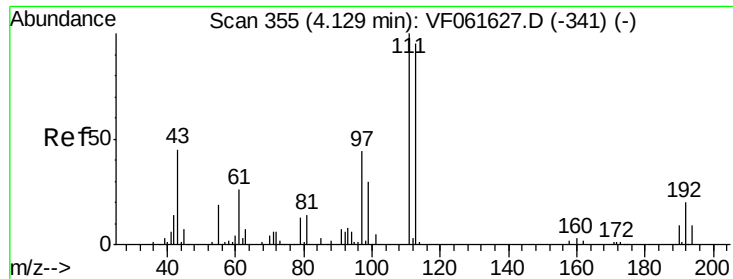
Delta R.T. -0.04 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	75	Resp:	101745
Ion Ratio	Lower	Upper	
75	100		
110	35.6	20.5	61.6
77	32.0	27.0	40.4





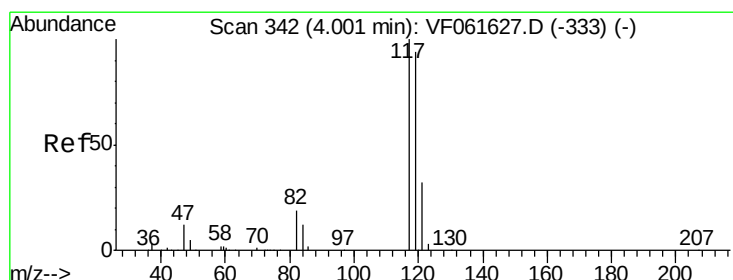
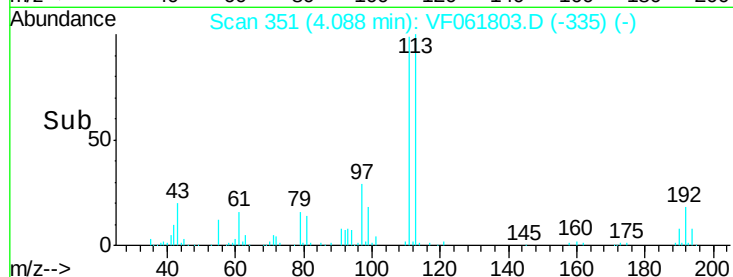
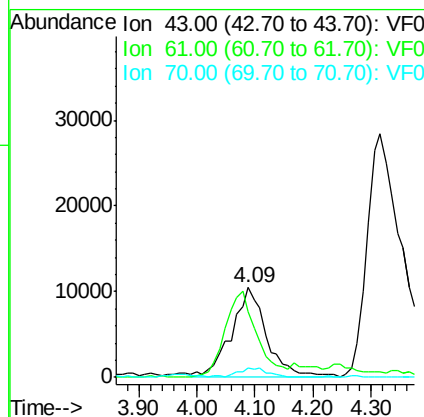
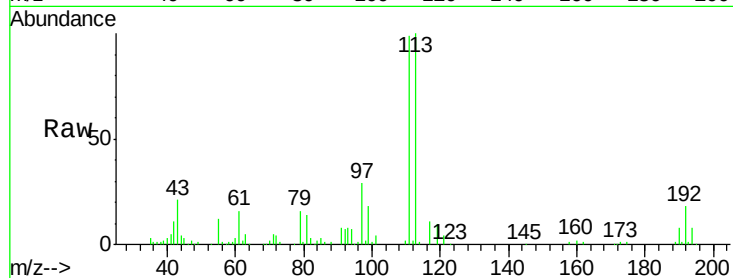
#37
Ethyl Acetate
Concen: 21.402 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	73.6	45.7	68.5#
70	10.1	8.5	12.7

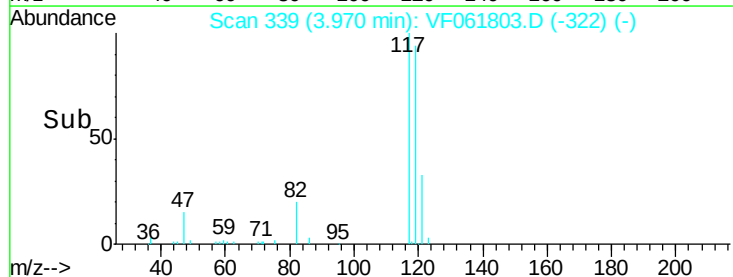
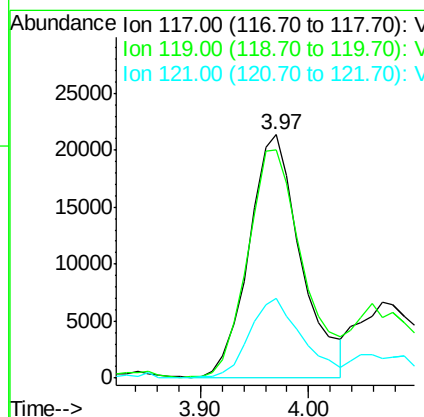
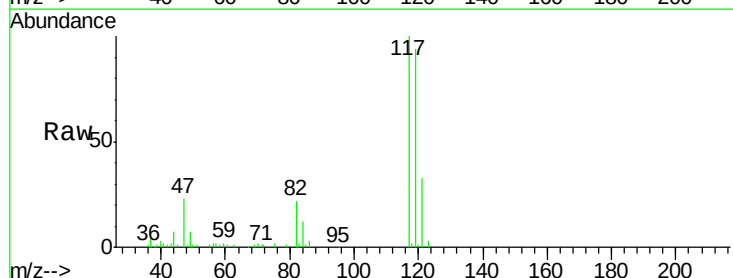
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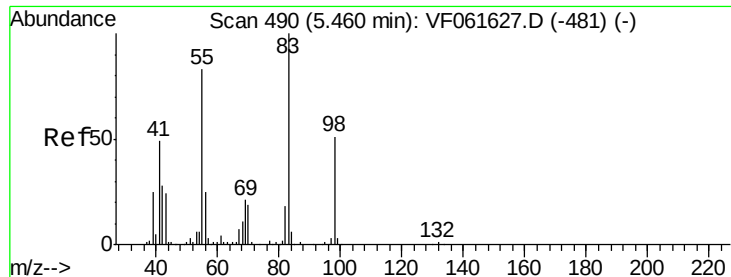
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3/4/2019 4:00:46 PM



#38
Carbon Tetrachloride
Concen: 24.236 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	75.6	113.4
121	32.5	25.2	37.8





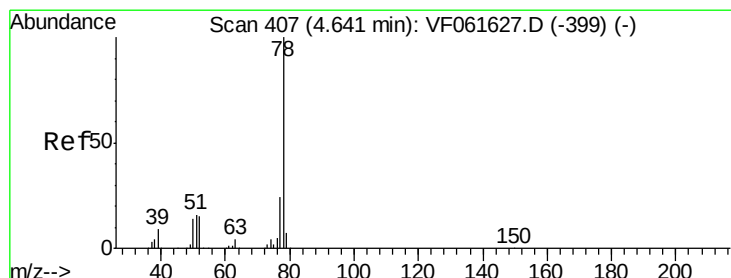
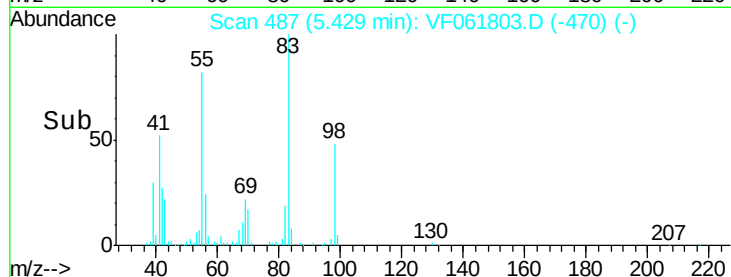
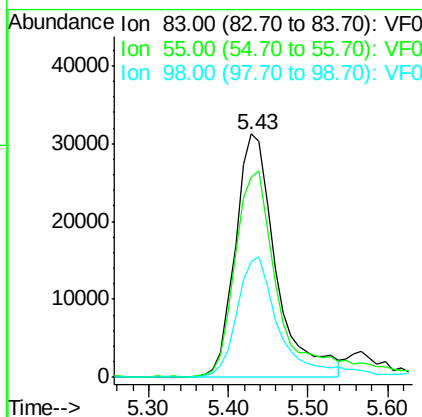
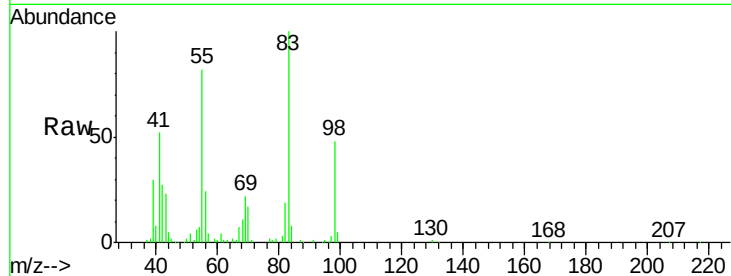
#39
Methylvlcyclohexane
Concen: 21.800 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.2	66.6	99.8
98	47.5	40.4	60.6

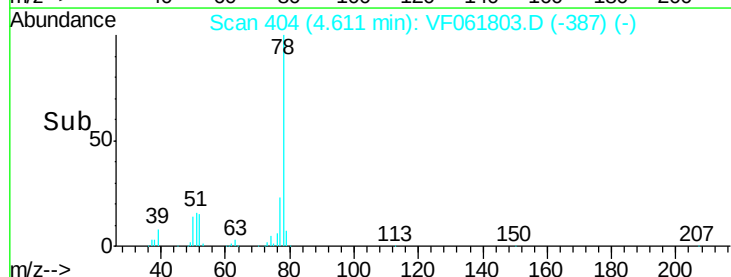
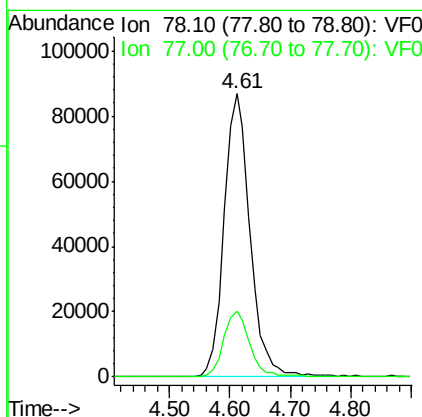
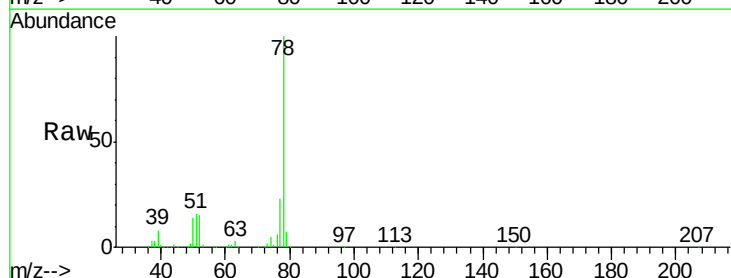
Manual Integrations
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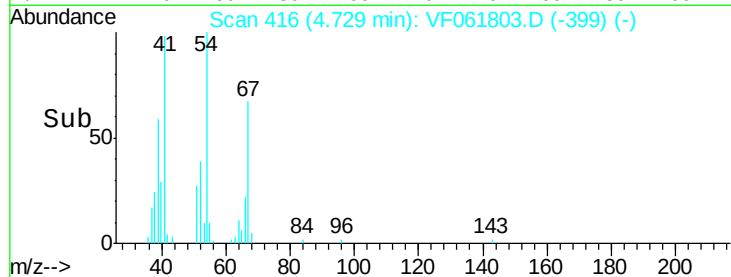
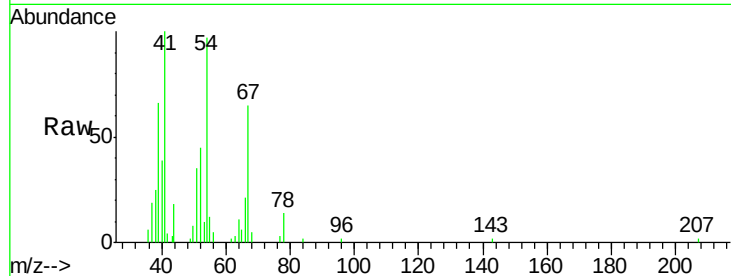
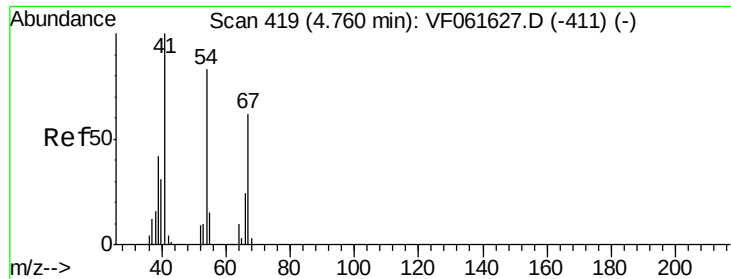
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3/4/2019 4:00:46 PM



#40
Benzene
Concen: 23.003 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

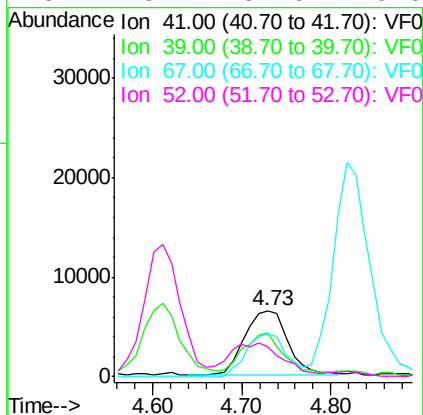
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6





#41
Methacrylonitrile
Concen: 21.125 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

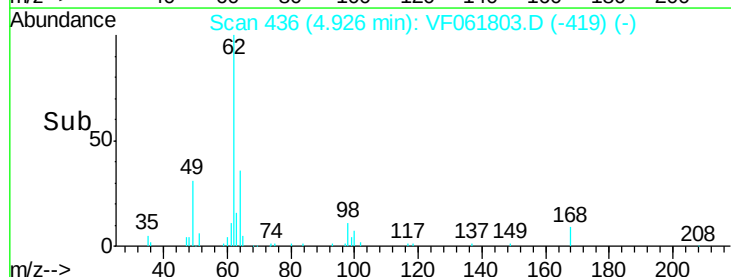
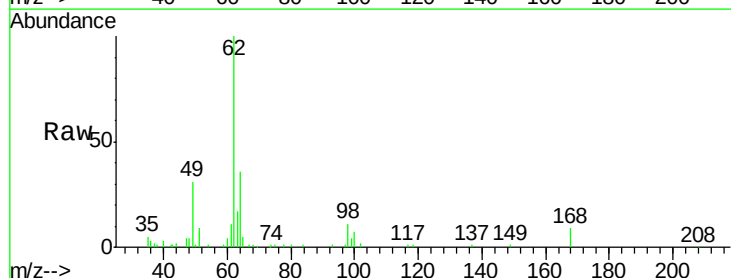
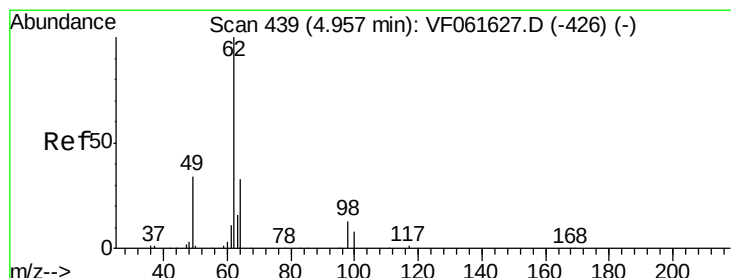
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	65.9	45.3	67.9	
67	65.4	49.3	73.9	
52	45.2	32.6	49.0	



Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

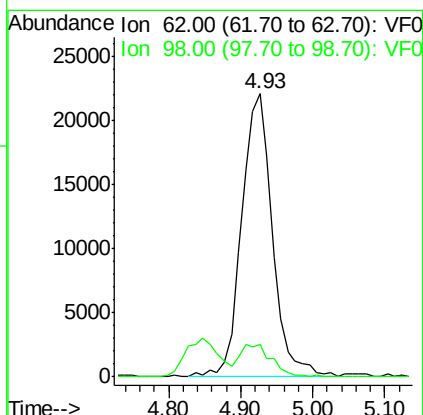
Manual Integrations
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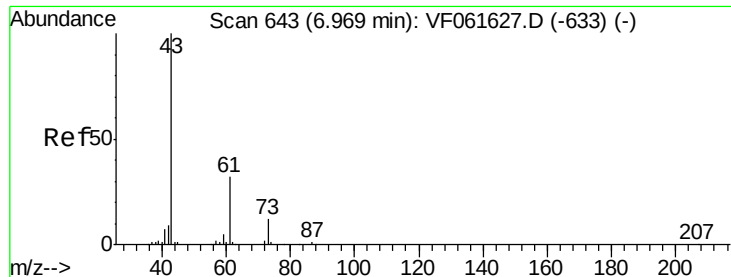
MMDadoda
3/4/2019 4:00:46 PM



#42
1,2-Dichloroethane
Concen: 24.639 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.5	0.0	26.0	





#43

Isopropyl Acetate

Concen: 20.991 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

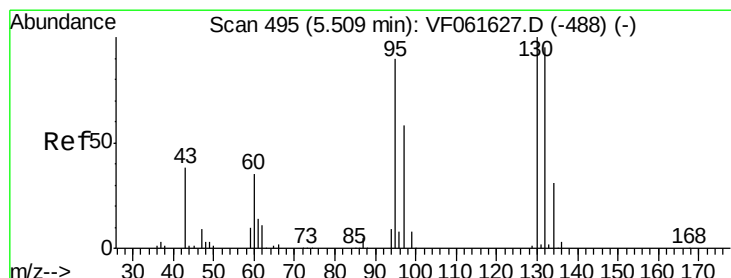
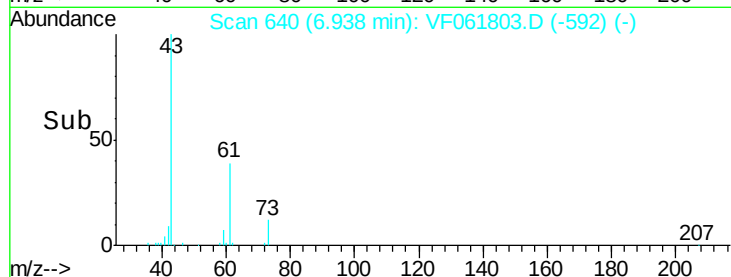
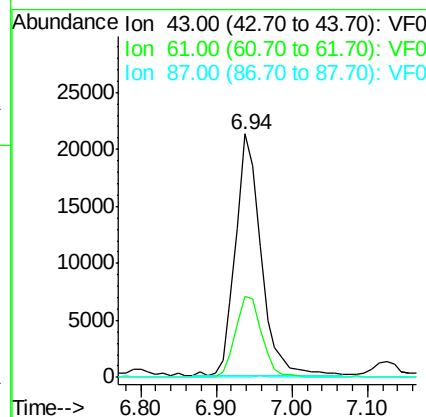
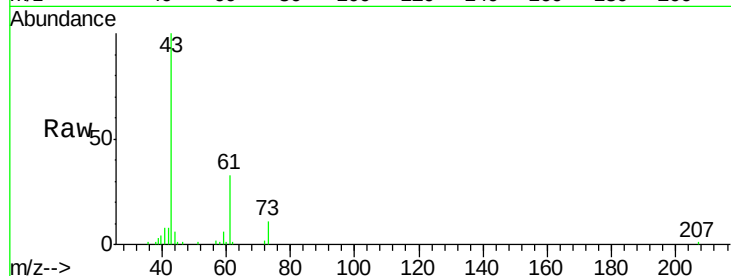
ClientSampleId :

VF0301SBS01

Tot Ion:	43	Resp:	49639
Ion	Ratio	Lower	Upper
43	100		
61	33.1	25.8	38.6
87	0.0	0.4	0.6

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#44

Trichloroethene

Concen: 22.778 ug/l

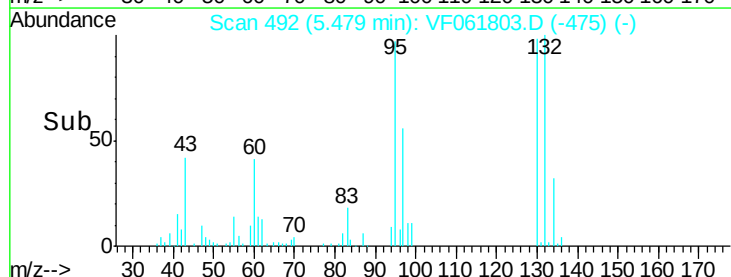
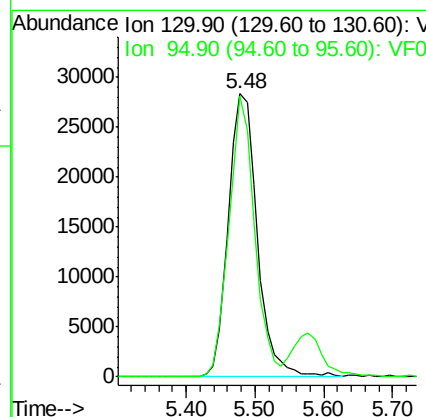
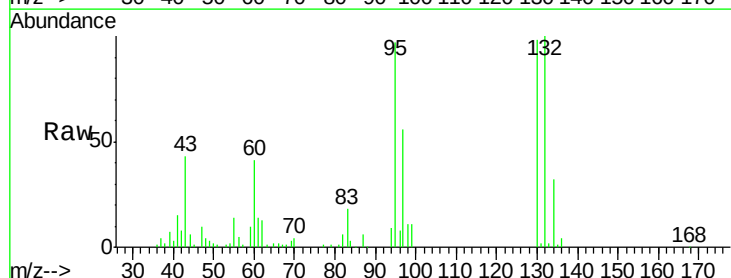
RT: 5.48 min Scan# 492

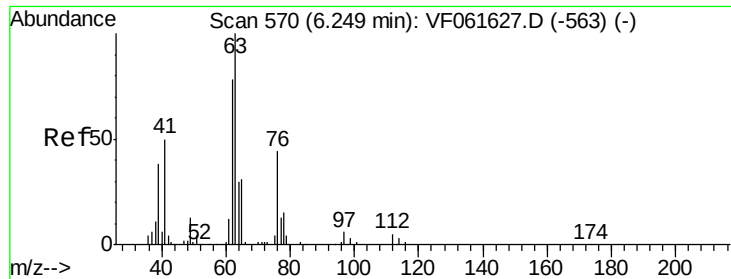
Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	130	Resp:	82872
Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	179.4





#45

1,2-Dichloropropane

Concen: 22.552 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 63 Resp: 61331

Ion Ratio Lower Upper

63 100

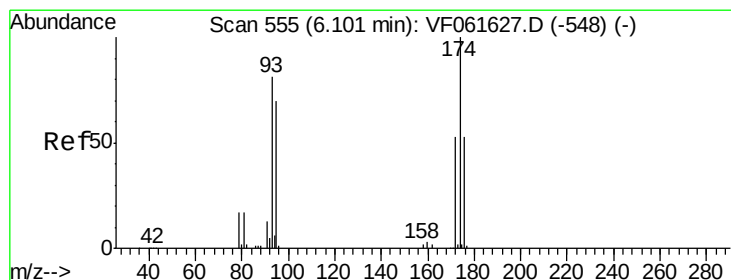
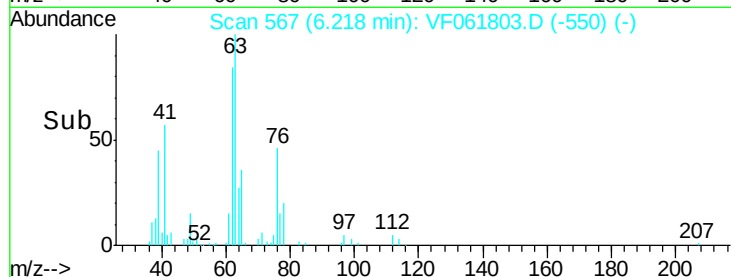
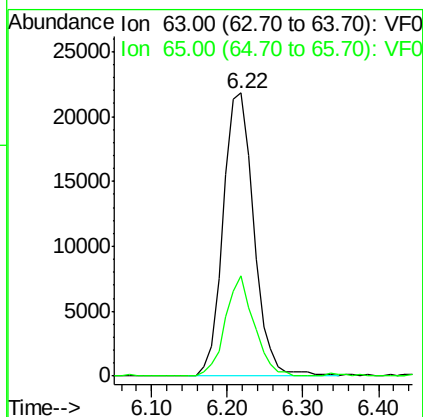
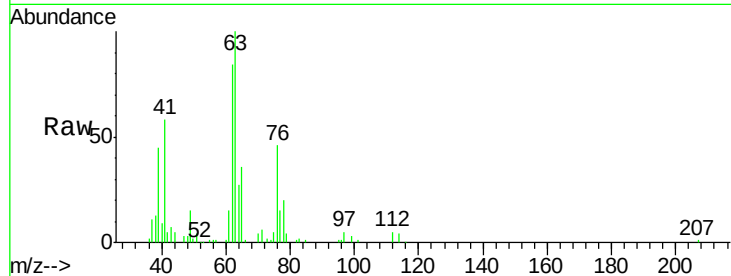
65 35.6 24.9 37.3

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3/4/2019 4:00:46 PM



#46

Dibromomethane

Concen: 23.022 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

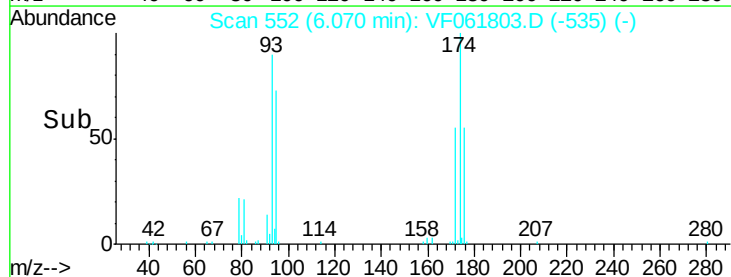
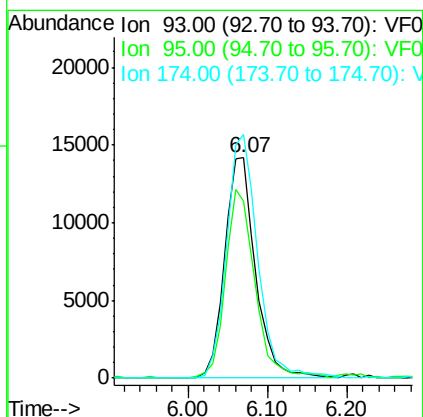
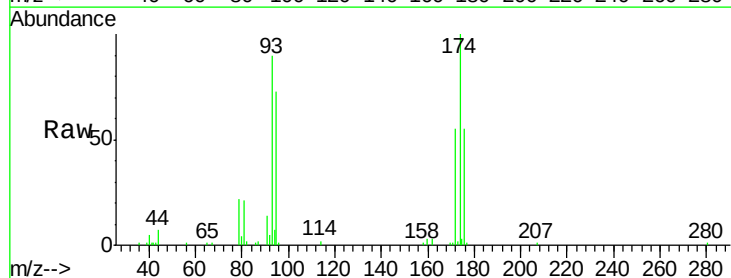
Tgt Ion: 93 Resp: 38548

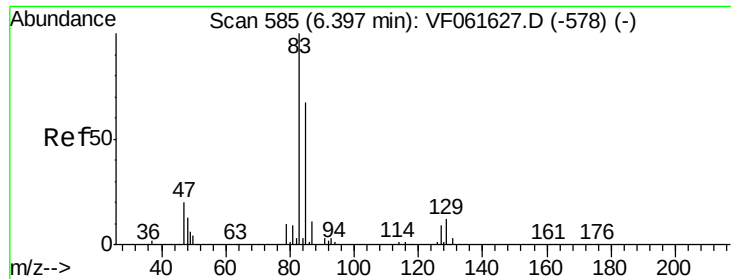
Ion Ratio Lower Upper

93 100

95 80.4 69.0 103.6

174 110.7 99.3 148.9





#47

Bromodichloromethane

Concen: 24.252 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

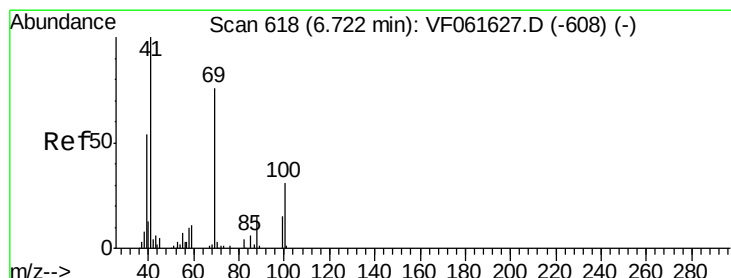
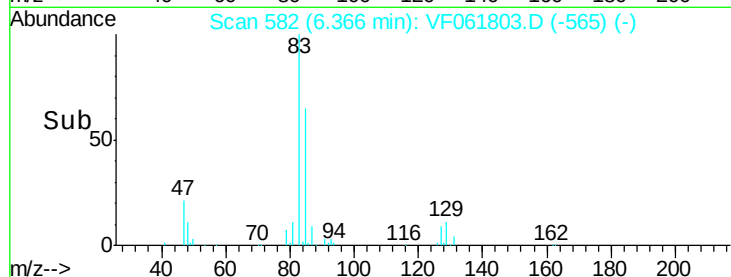
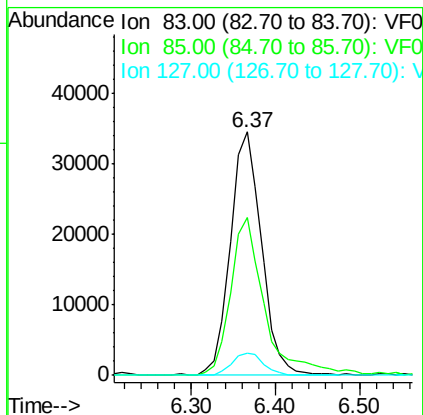
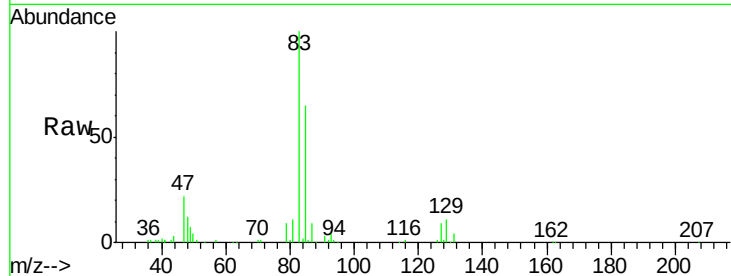
ClientSampleId :

VF0301SBS01

Tot Ion:	83	Resp:	88924
Ion	Ratio	Lower	Upper
83	100		
85	64.9	53.4	80.2
127	8.9	7.5	11.3

Manual Integrations
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3/4/2019 4:00:46 PM



#48

Methyl methacrylate

Concen: 21.180 ug/l

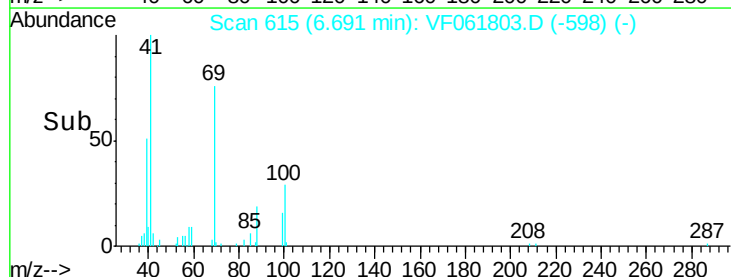
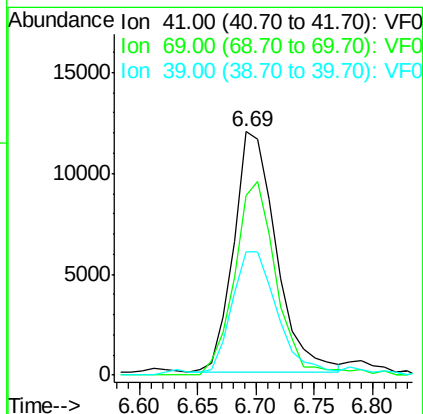
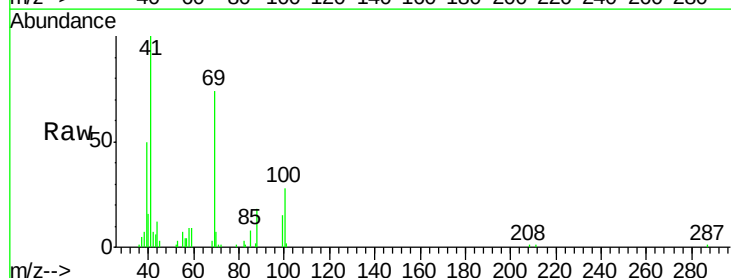
RT: 6.69 min Scan# 615

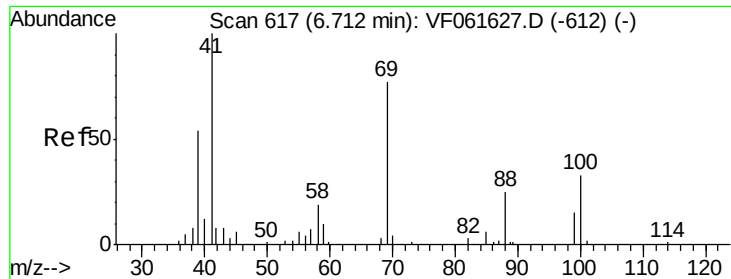
Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	41	Resp:	30142
Ion	Ratio	Lower	Upper
41	100		
69	74.0	60.4	90.6
39	50.5	43.7	65.5





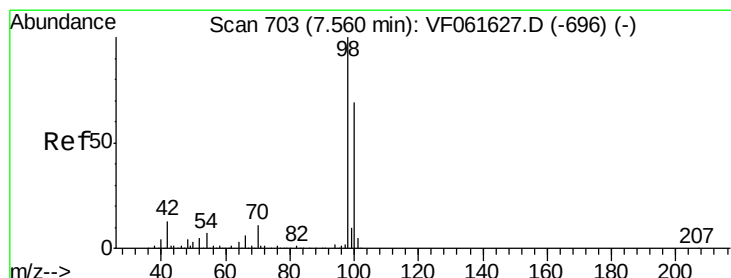
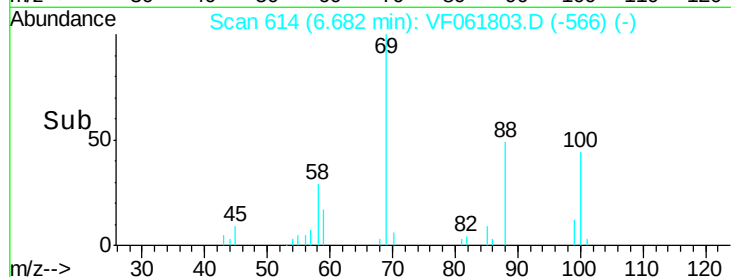
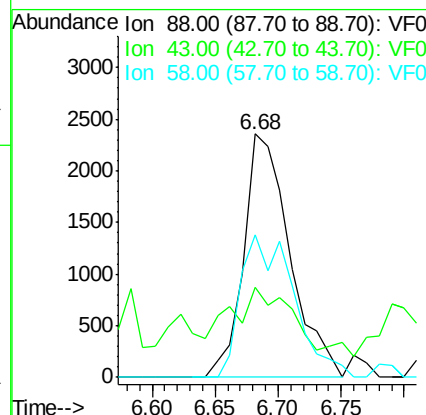
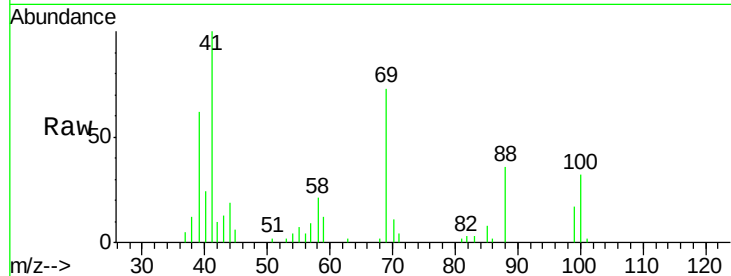
#49
1,4-Dioxane
Concen: 448.049 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.8	32.3	48.5
58	58.4	59.4	89.2#

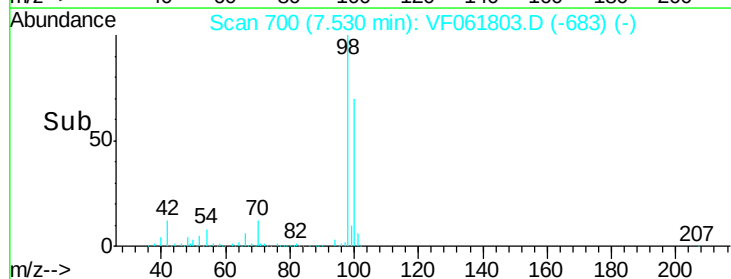
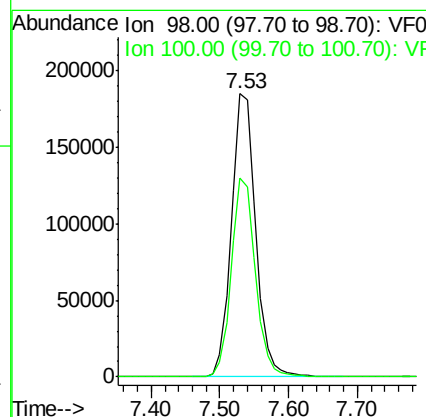
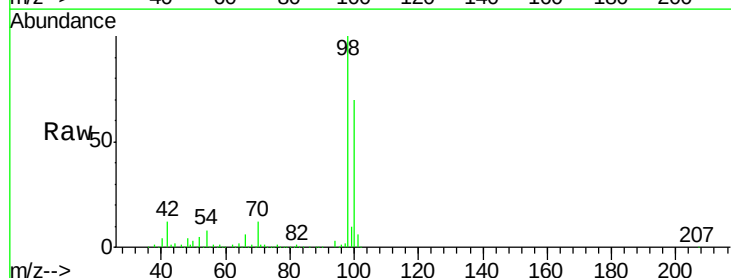
Manual Integrations
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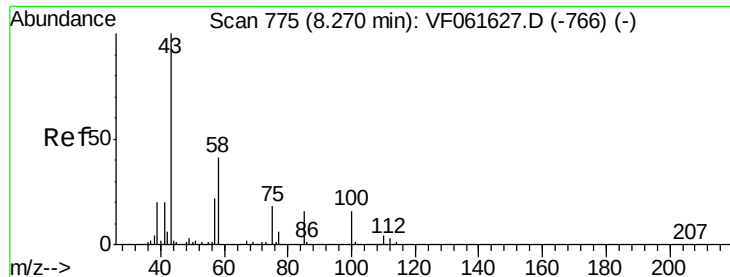
MMDadoda
3/4/2019 4:00:46 PM



#50
Toluene-d8
Concen: 48.763 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.0	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 109.144 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 43 Resp: 184424

Ion Ratio Lower Upper

43 100

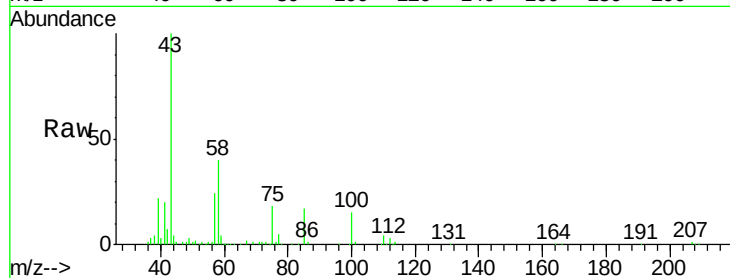
58 40.3 33.1 49.7

Manual Integrations

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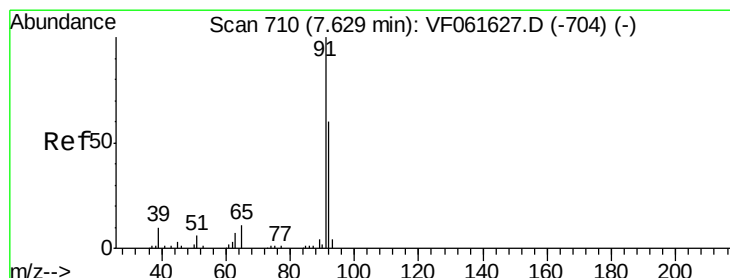
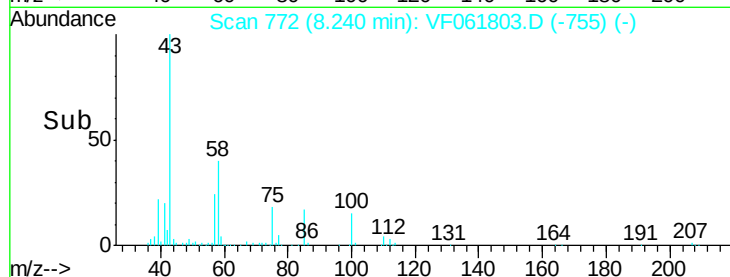
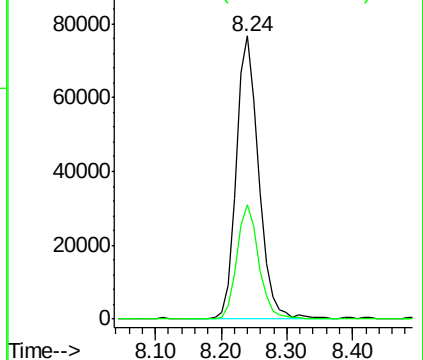
MMDadoda

3/4/2019 4:00:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 23.728 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061803.D

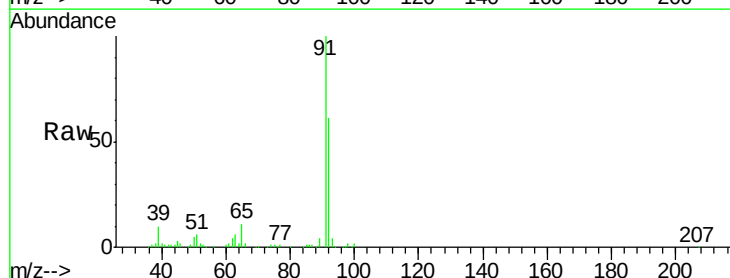
Acq: 1 Mar 2019 15:27

Tgt Ion: 92 Resp: 161901

Ion Ratio Lower Upper

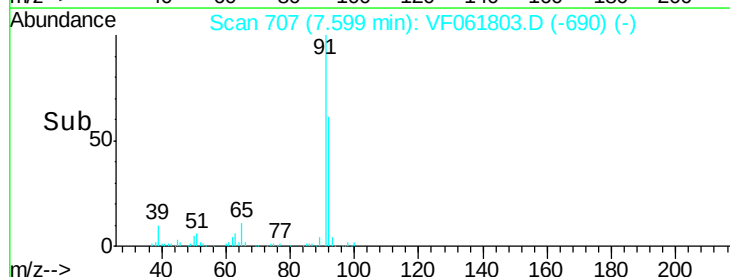
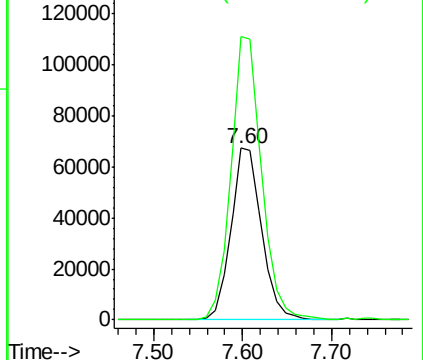
92 100

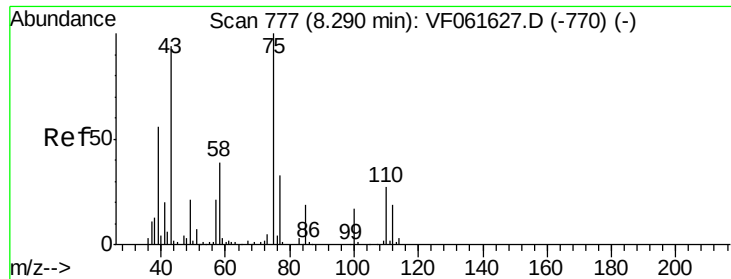
91 164.7 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





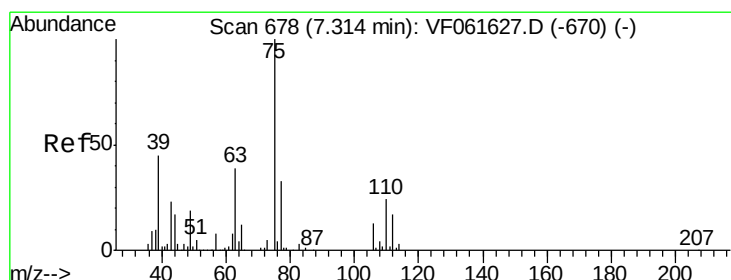
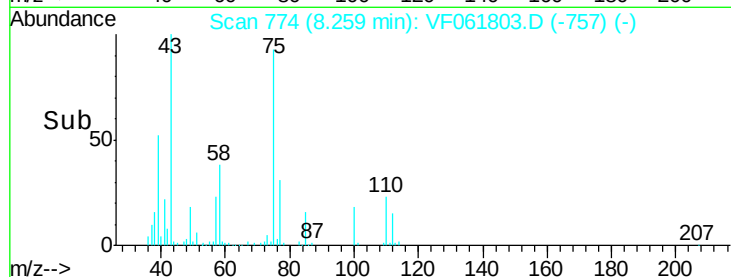
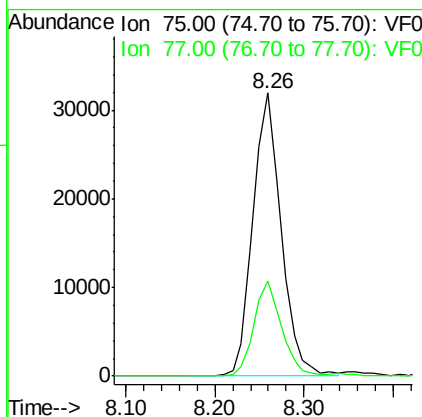
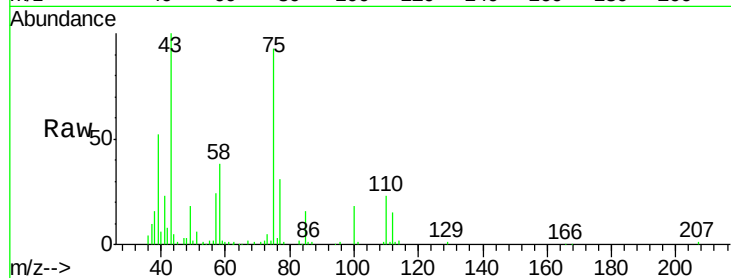
#53
t-1,3-Dichloropropene
Concen: 22.927 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.2	39.2

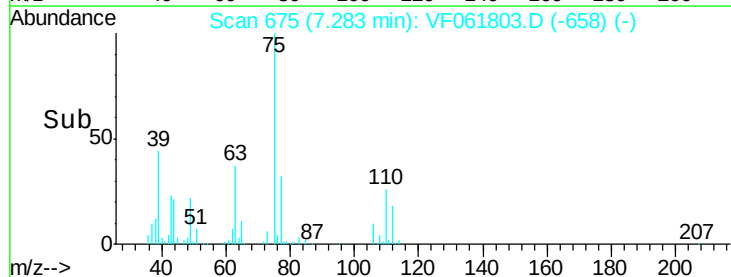
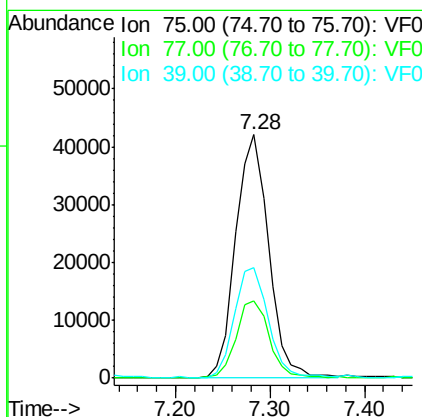
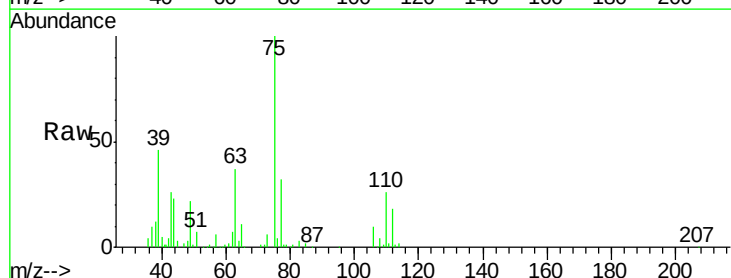
Manual Integrations
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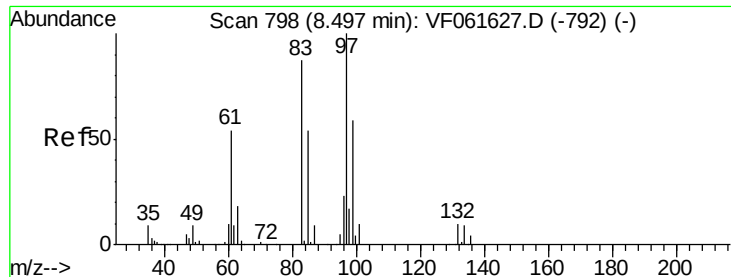
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3/4/2019 4:00:46 PM



#54
cis-1,3-Dichloropropene
Concen: 25.074 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.4	39.6
39	45.6	36.0	54.0





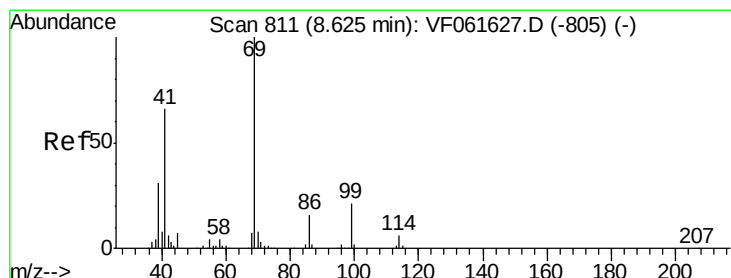
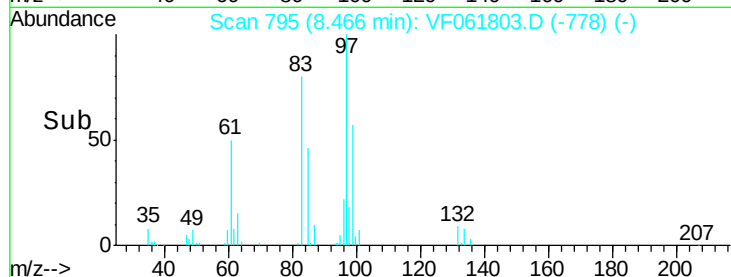
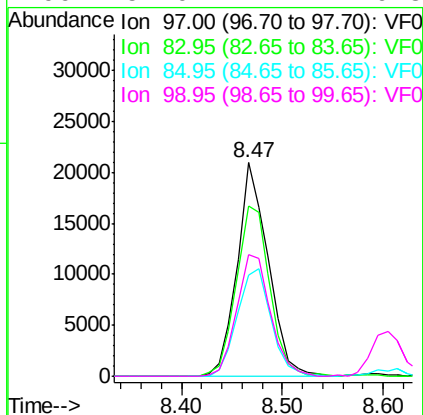
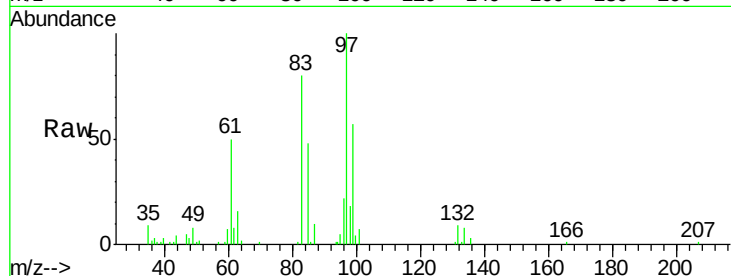
#55
 1,1,2-Trichloroethane
 Concen: 22.366 ug/l
 RT: 8.47 min Scan# 795
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion:	97	Resp:	44839
Ion	Ratio	Lower	Upper
97	100		
83	79.9	69.2	103.8
85	47.6	43.0	64.4
99	57.0	47.2	70.8

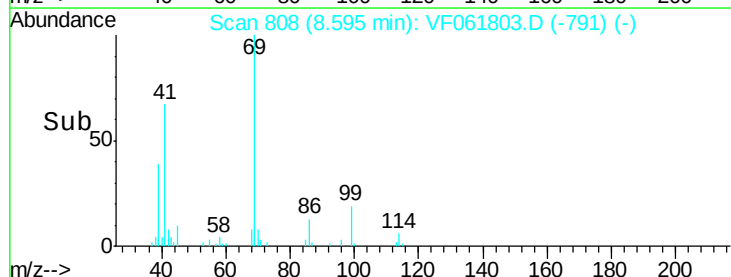
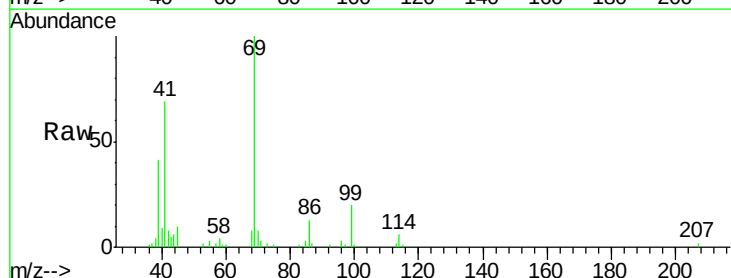
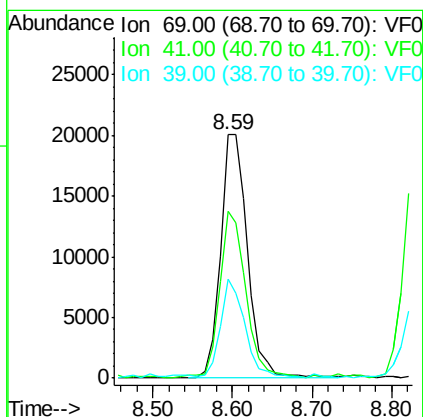
Manual Integrations
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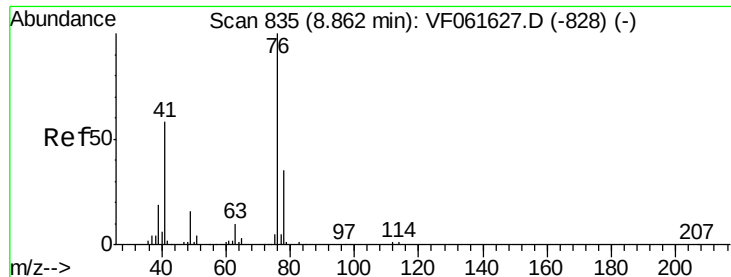
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 3/4/2019 4:00:46 PM



#56
 Ethyl methacrylate
 Concen: 21.438 ug/l
 RT: 8.59 min Scan# 808
 Delta R.T. -0.03 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion:	69	Resp:	47851
Ion	Ratio	Lower	Upper
69	100		
41	68.6	52.9	79.3
39	40.7	24.5	36.7#





#57

1,3-Dichloropropane

Concen: 21.213 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 76 Resp: 70982

Ion Ratio Lower Upper

76 100

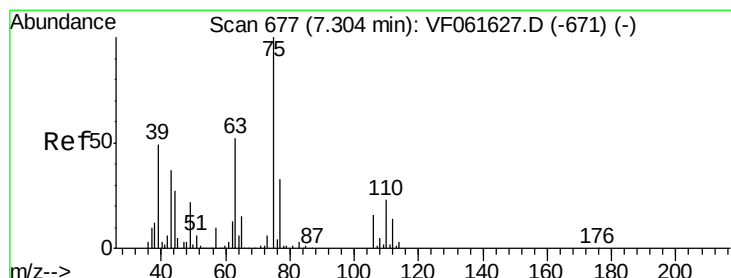
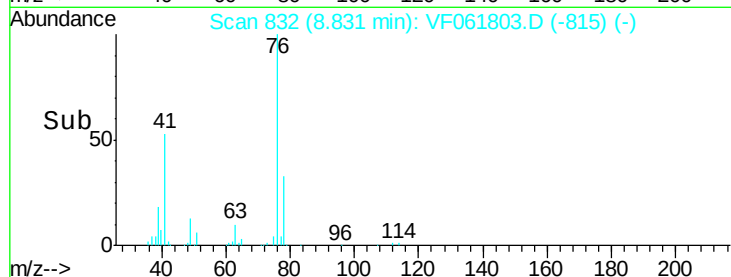
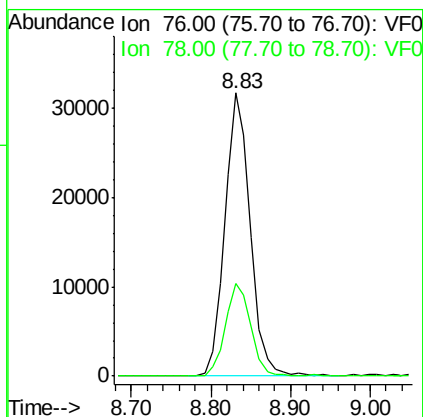
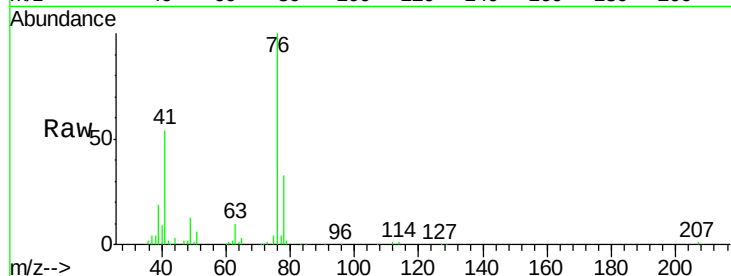
78 33.0 27.8 41.6

Manual Integrations

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3/4/2019 4:00:46 PM



#58

2-Chloroethyl Vinyl ether

Concen: 103.279 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061803.D

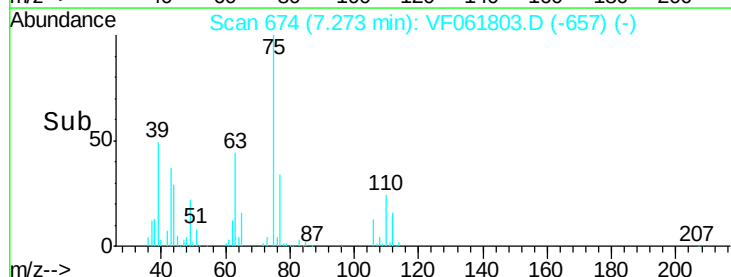
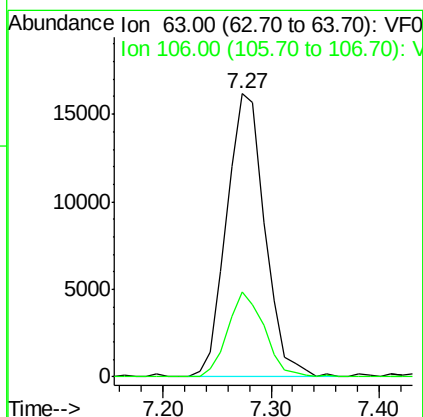
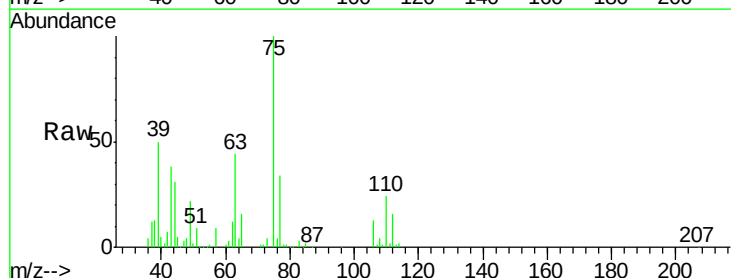
Acq: 1 Mar 2019 15:27

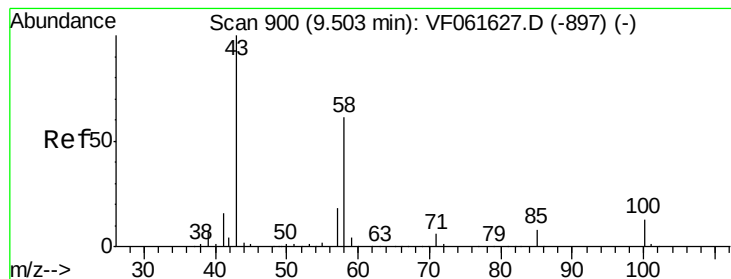
Tgt Ion: 63 Resp: 39773

Ion Ratio Lower Upper

63 100

106 29.8 24.6 36.8





#59

2-Hexanone

Concen: 115.598 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 43 Resp: 136921

Ion Ratio Lower Upper

43 100

58 54.3

28.5

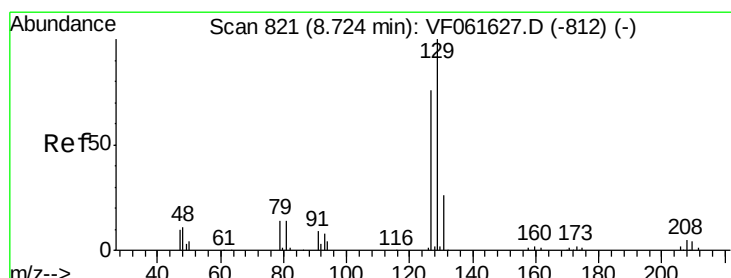
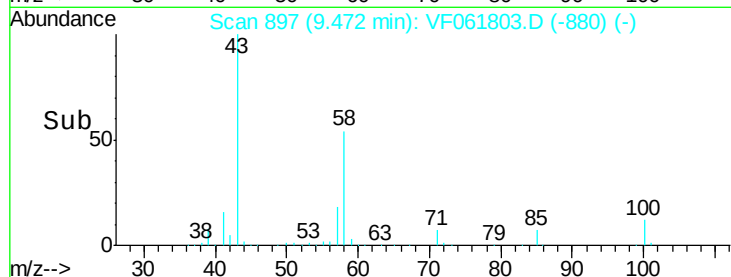
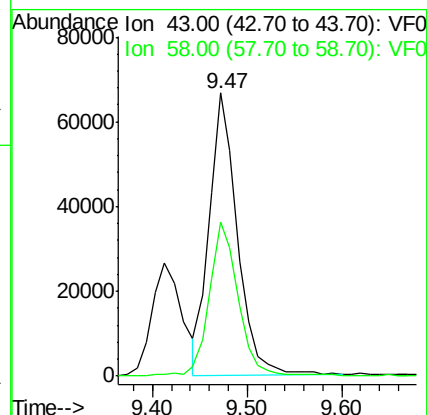
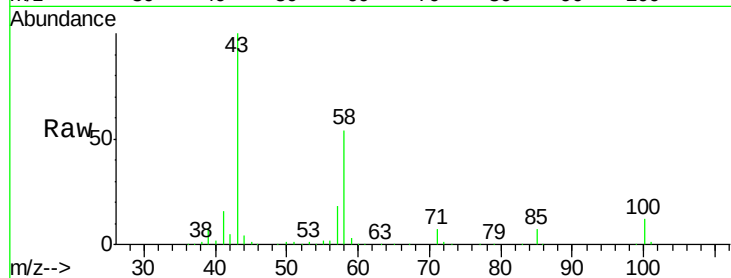
85.5

Manual Integrations

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3/4/2019 4:00:46 PM



#60

Dibromochloromethane

Concen: 22.264 ug/l

RT: 8.69 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion: 129 Resp: 62124

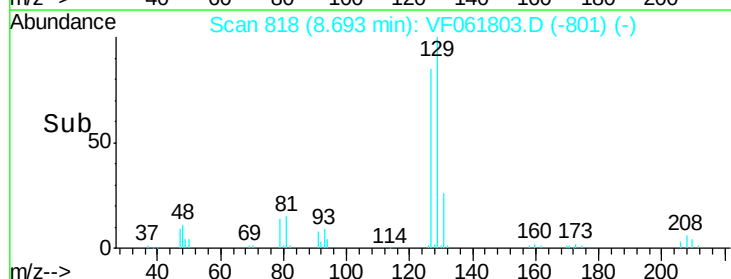
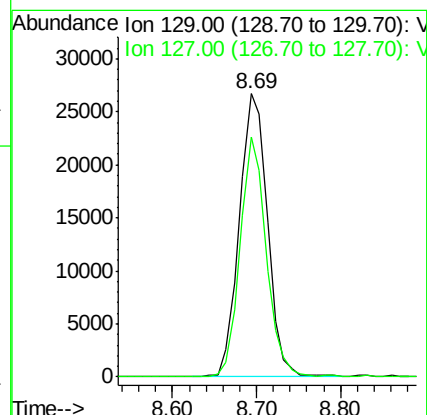
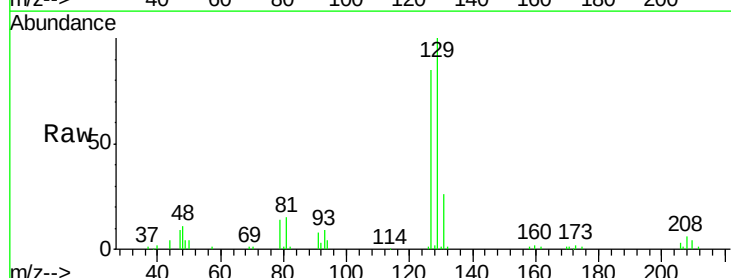
Ion Ratio Lower Upper

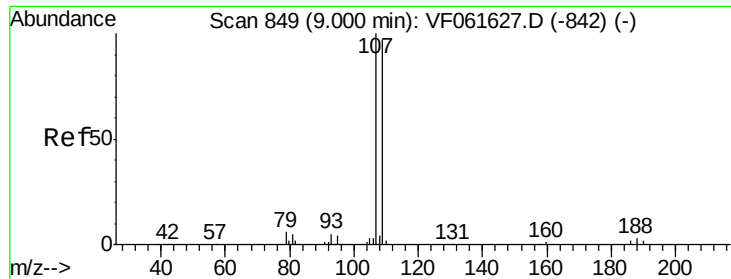
129 100

127 84.8

37.8

113.4





#61

1,2-Dibromoethane

Concen: 21.689 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion:107 Resp: 47162

Ion Ratio Lower Upper

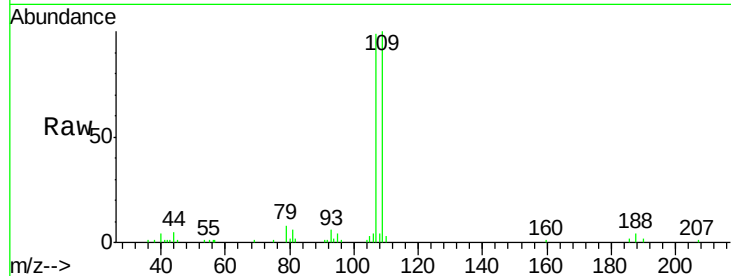
107 100

109 100.9 77.4 116.0

Manual Integrations
APPROVED

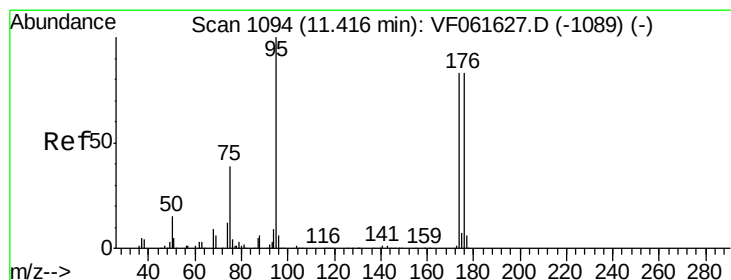
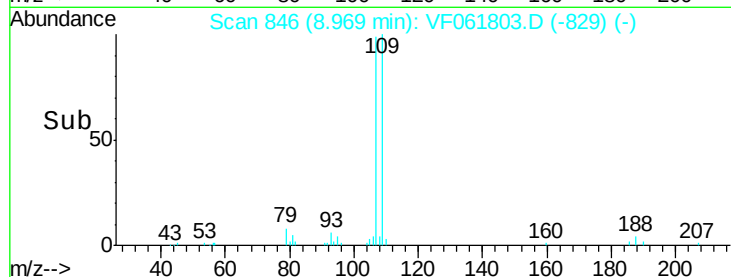
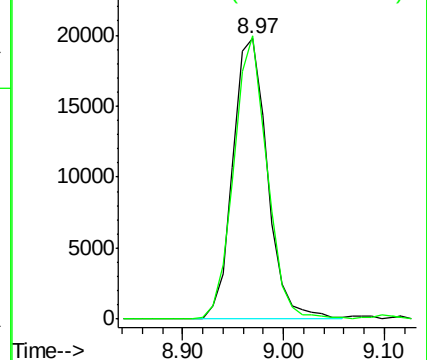
MMDadoda

3/4/2019 4:00:46 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.373 ug/l

RT: 11.39 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

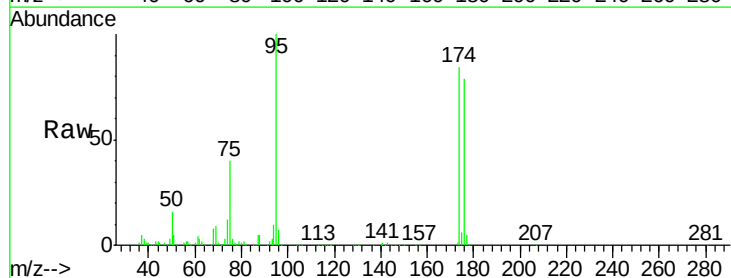
Tgt Ion: 95 Resp: 185174

Ion Ratio Lower Upper

95 100

174 83.8 0.0 165.8

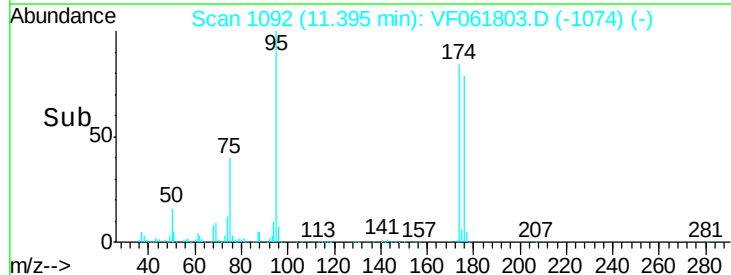
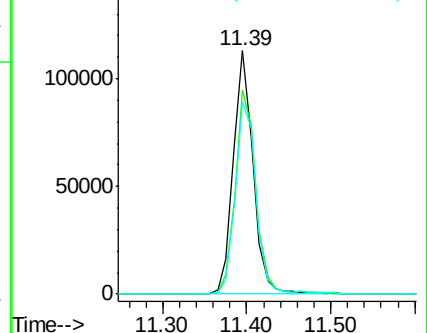
176 79.2 0.0 167.0

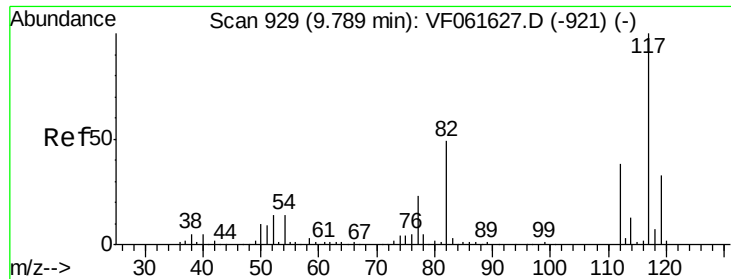


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





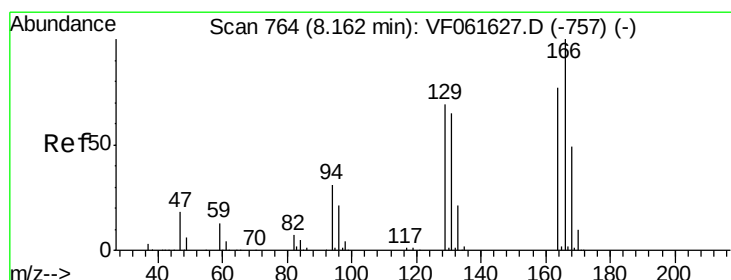
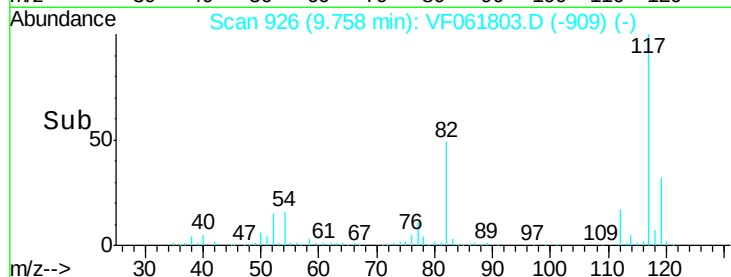
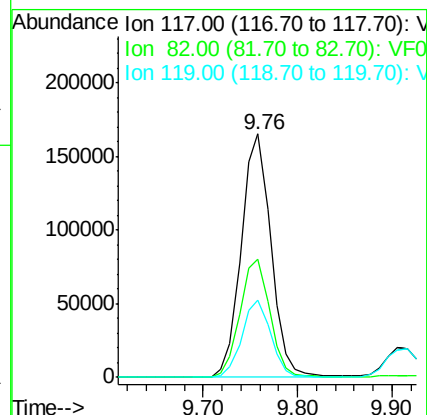
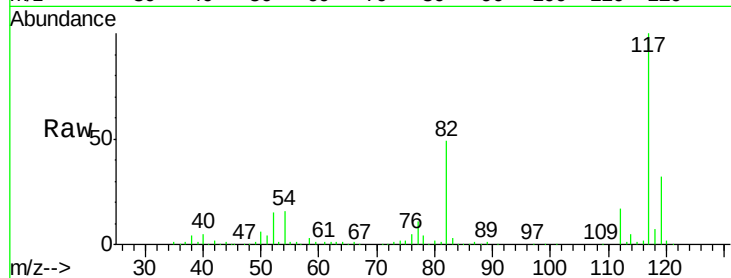
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.8	39.3	58.9
119	31.7	26.6	40.0

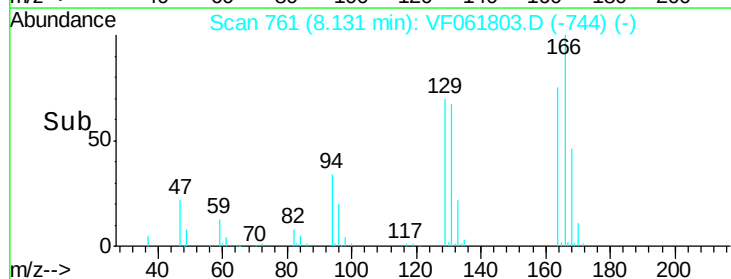
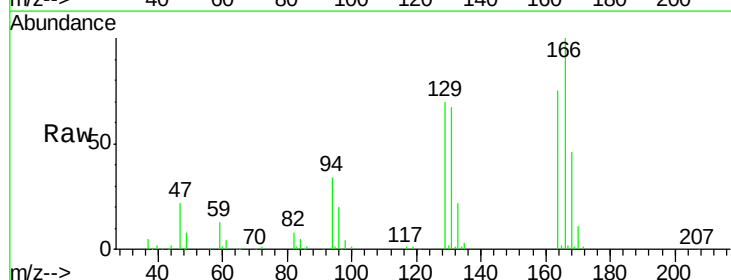
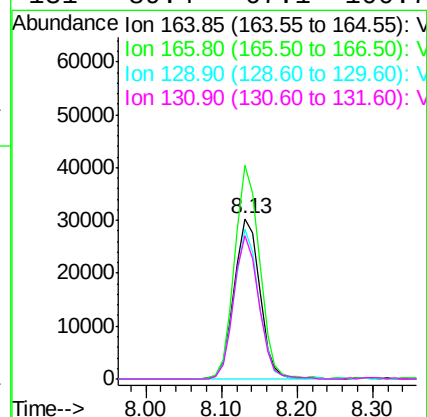
Manual Integrations
APPROVED

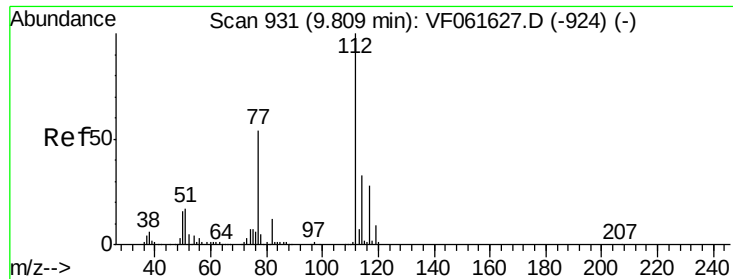
MMDadoda
3/4/2019 4:00:46 PM



#64
Tetrachloroethene
Concen: 24.156 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.3	103.9	155.9
129	93.2	71.3	106.9
131	89.4	67.1	100.7





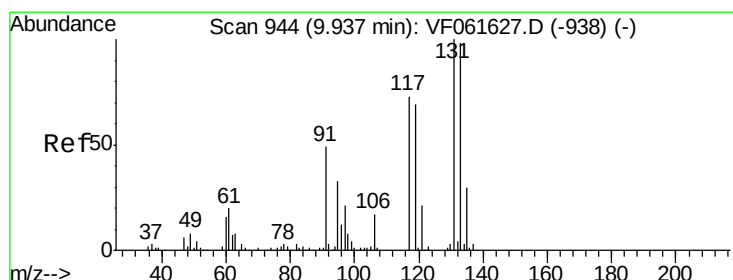
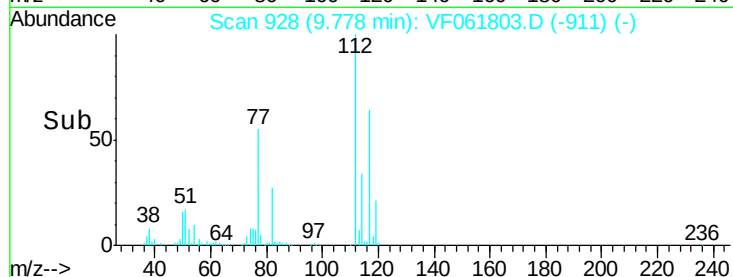
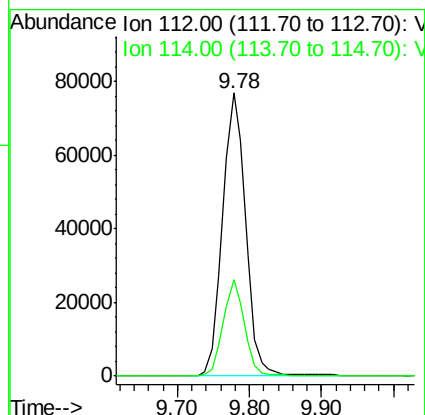
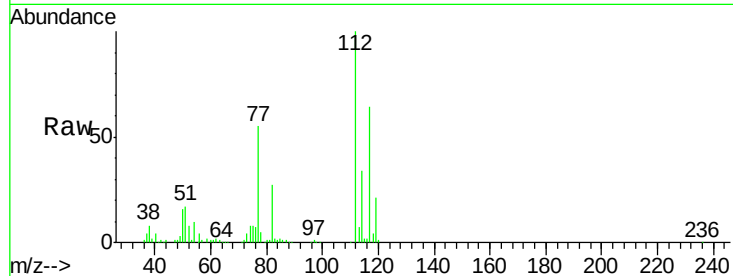
#65
Chlorobenzene
Concen: 23.467 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion:112 Resp: 171608
Ion Ratio Lower Upper
112 100
114 33.9 26.2 39.2

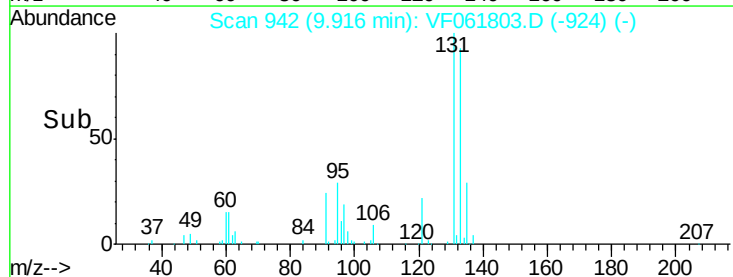
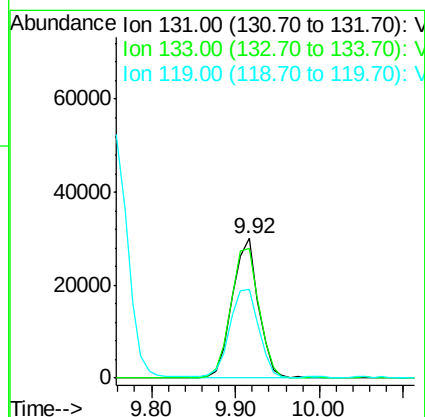
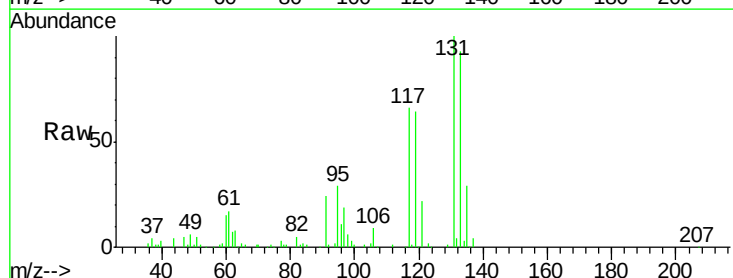
Manual Integrations
APPROVED

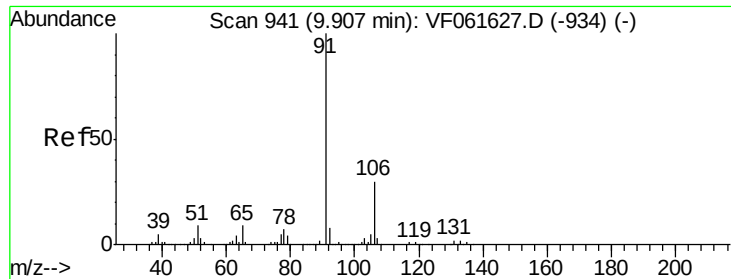
MMDadoda
3/4/2019 4:00:46 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.769 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion:131 Resp: 65244
Ion Ratio Lower Upper
131 100
133 92.9 48.9 146.6
119 63.7 34.8 104.3





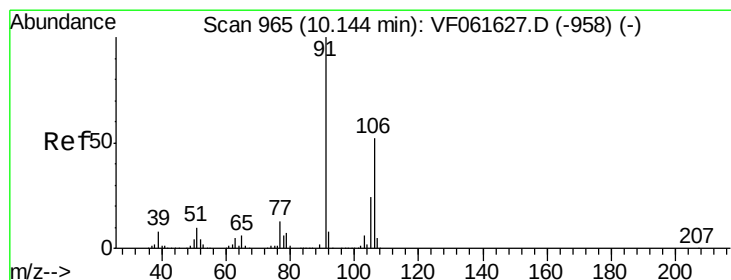
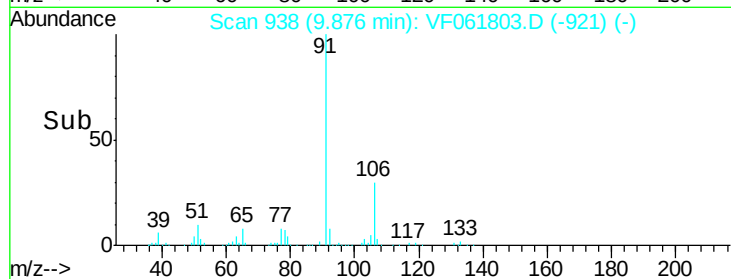
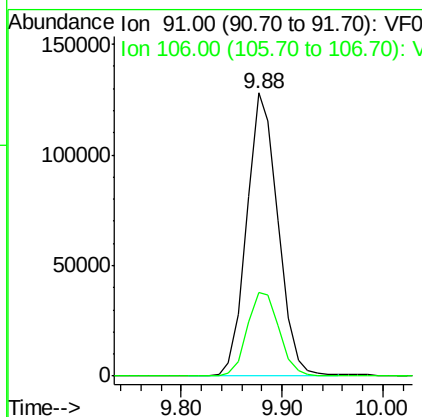
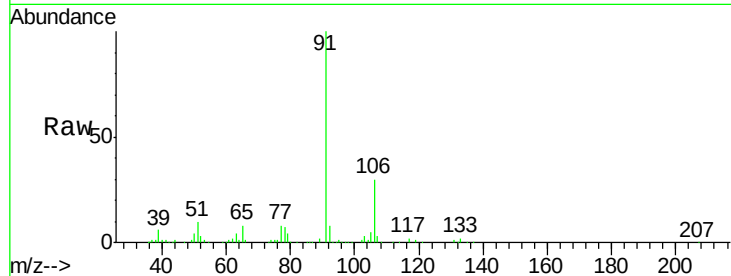
#67
Ethyl Benzene
Concen: 22.767 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.1	36.1

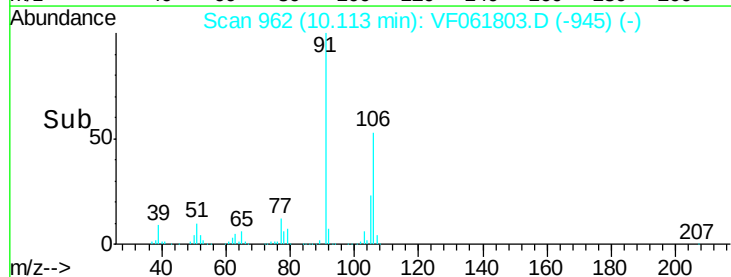
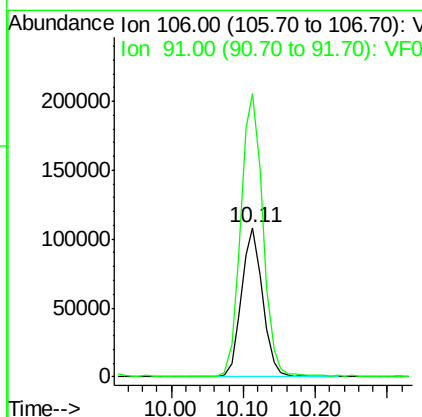
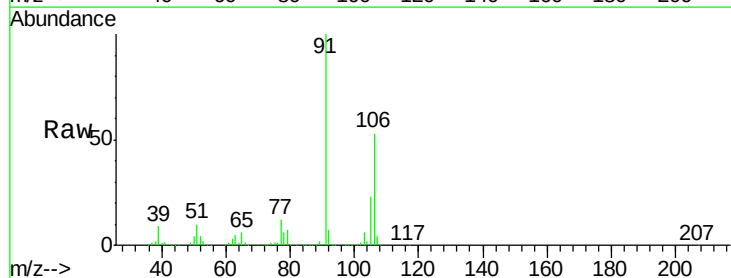
Manual Integrations
APPROVED

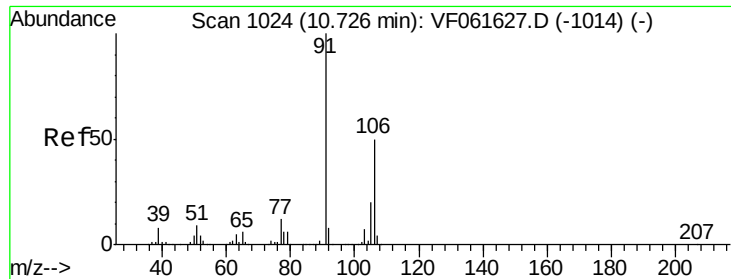
MMDadoda
3/4/2019 4:00:46 PM



#68
m/p-Xylenes
Concen: 48.185 ug/l
RT: 10.11 min Scan# 962
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
106	100		
91	189.9	153.0	229.6





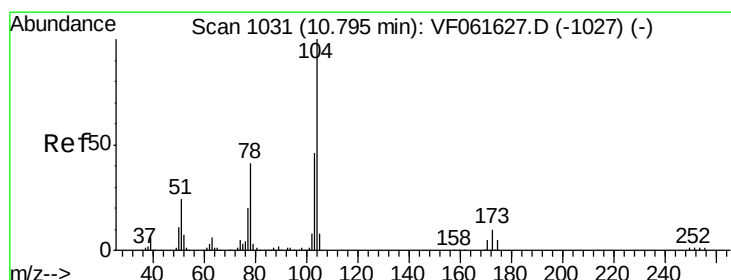
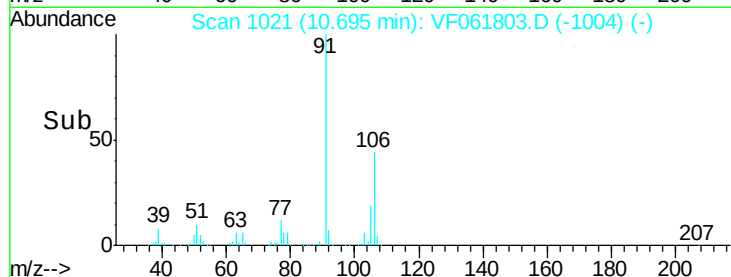
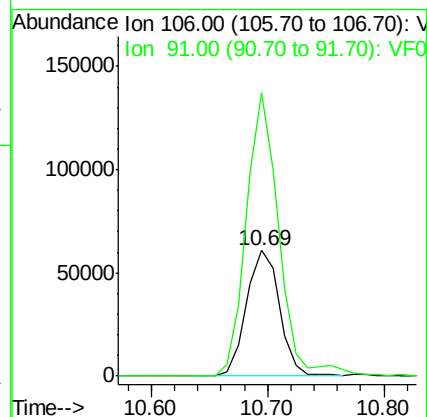
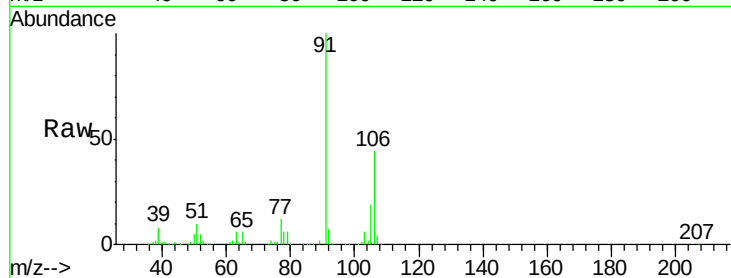
#69
o-Xylene
Concen: 24.155 ug/l
RT: 10.69 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	119961		
91	225.6	100.1	300.1	

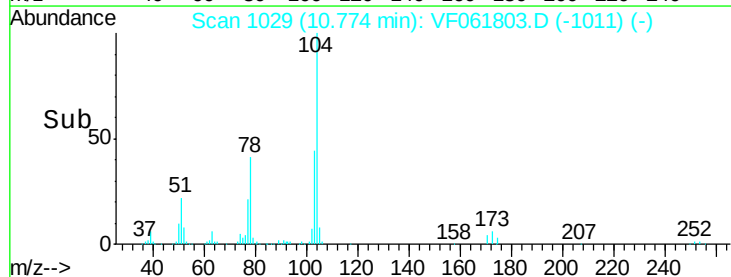
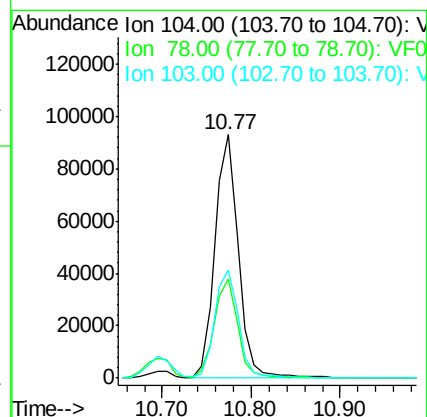
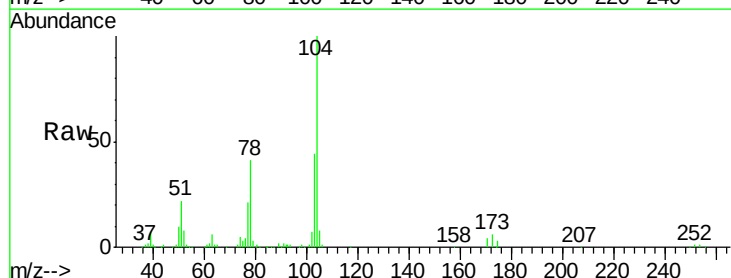
Manual Integrations
APPROVED

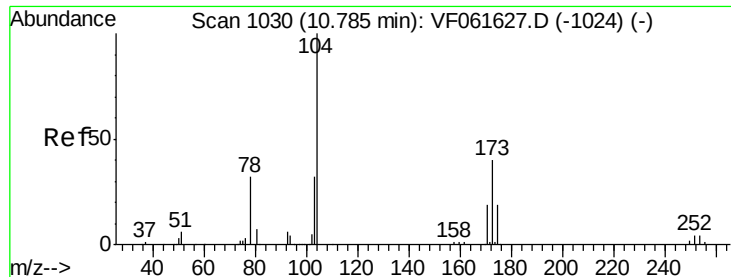
MMDadoda
3/4/2019 4:00:46 PM



#70
Styrene
Concen: 23.999 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	168611		
78	40.6	33.2	49.8	
103	44.5	37.2	55.8	





#71

Bromoform

Concen: 21.601 ug/l

RT: 10.75 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

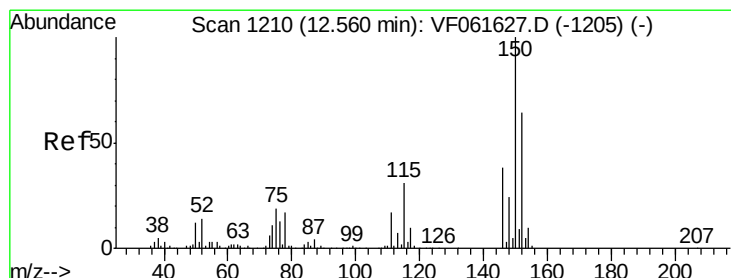
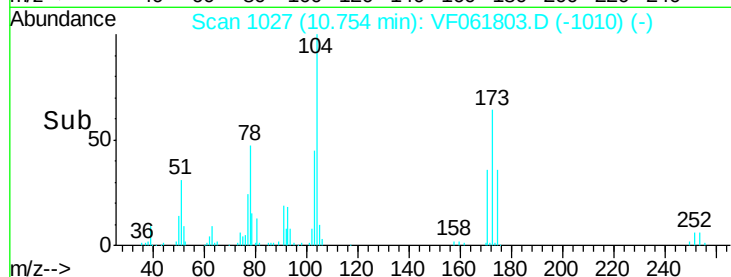
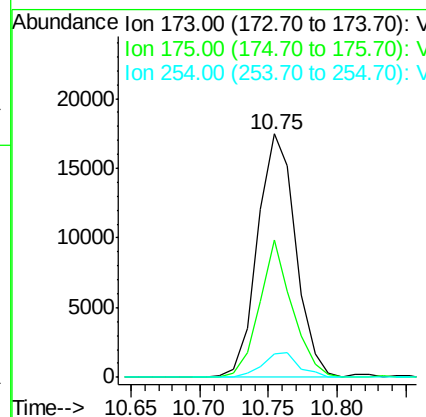
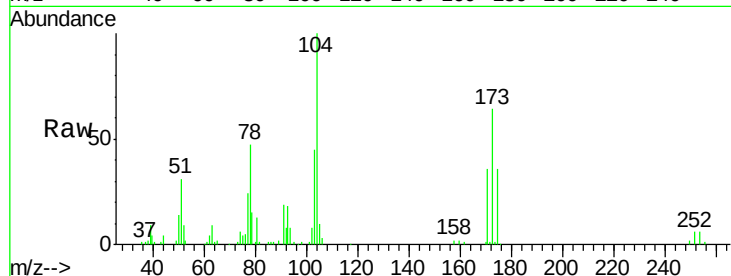
ClientSampleId :

VF0301SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	56.3	24.0	72.0
254	9.5	8.2	12.2

Manual Integrations
APPROVED

MMDadoda
3/4/2019 4:00:46 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

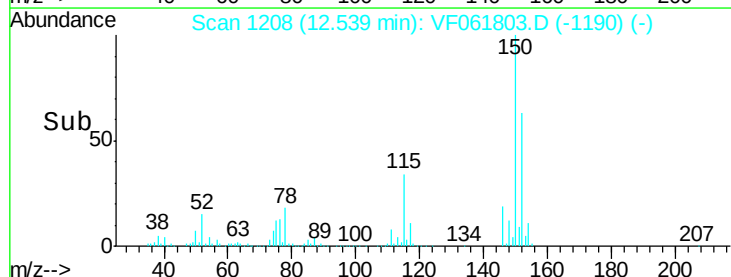
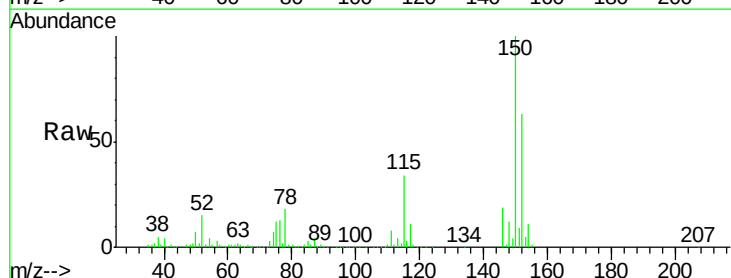
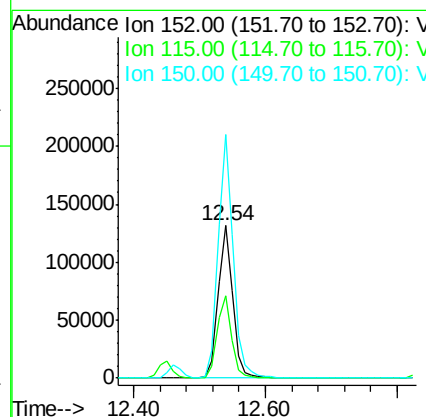
RT: 12.54 min Scan# 1208

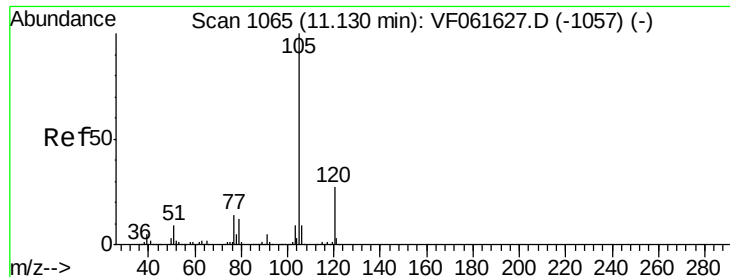
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	24.3	72.8
150	159.6	0.0	312.0





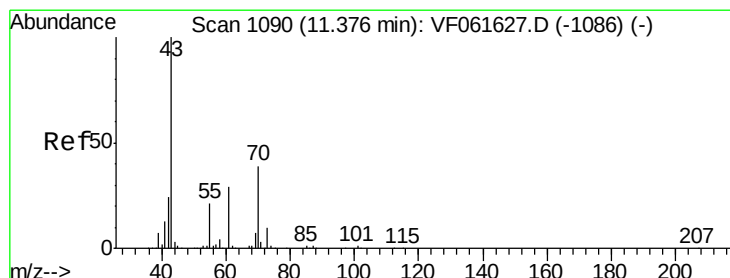
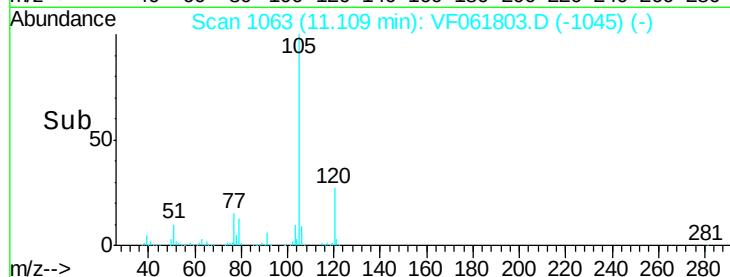
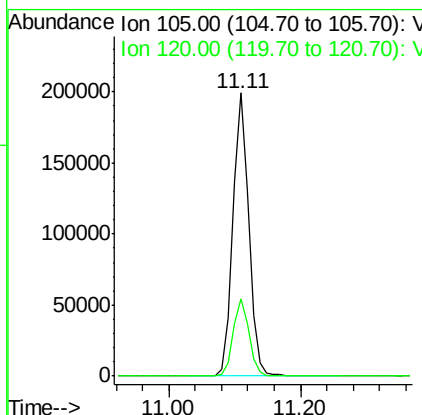
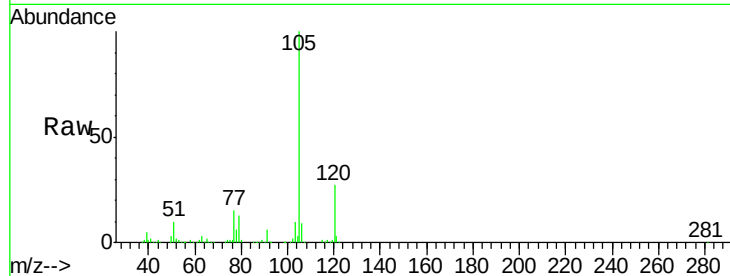
#73
Isopropylbenzene
Concen: 23.795 ug/l
RT: 11.11 min Scan# 1063
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.1

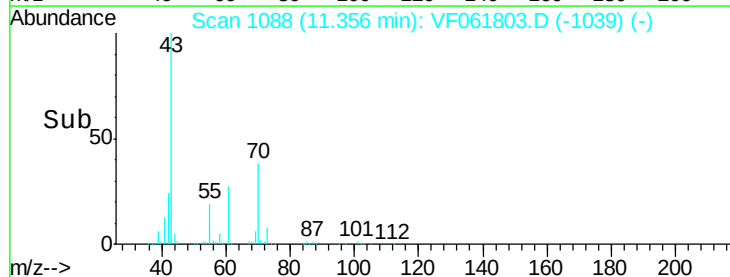
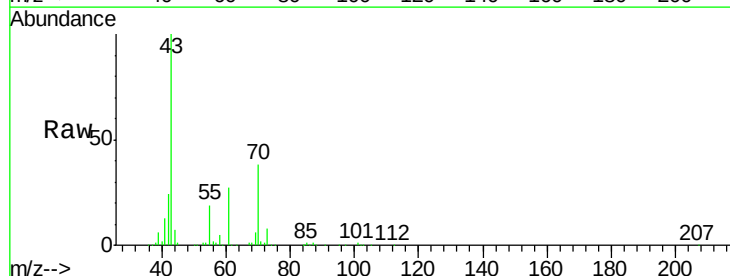
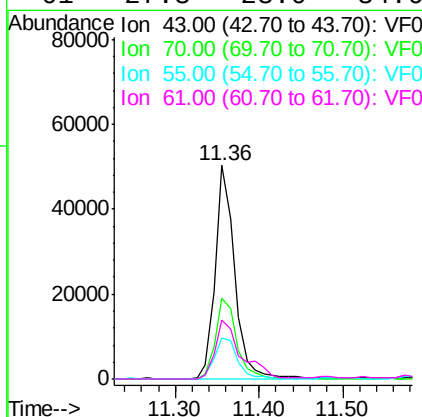
Manual Integrations
APPROVED

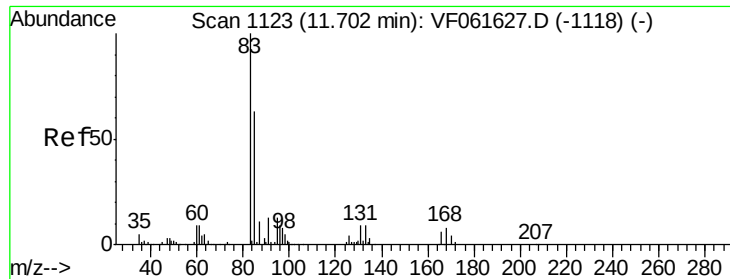
MMDadoda
3/4/2019 4:00:46 PM



#74
N-ethyl acetate
Concen: 23.829 ug/l
RT: 11.36 min Scan# 1088
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
43	100		
70	38.0	31.5	47.3
55	19.1	16.7	25.1
61	27.3	23.0	34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.909 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

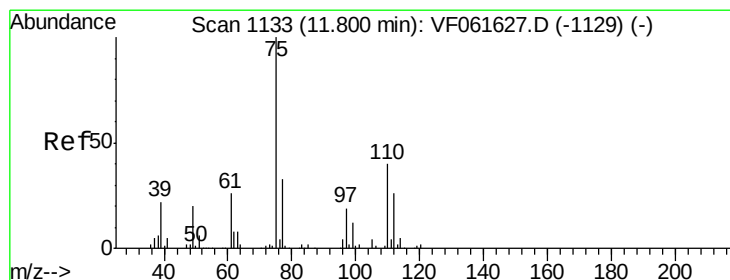
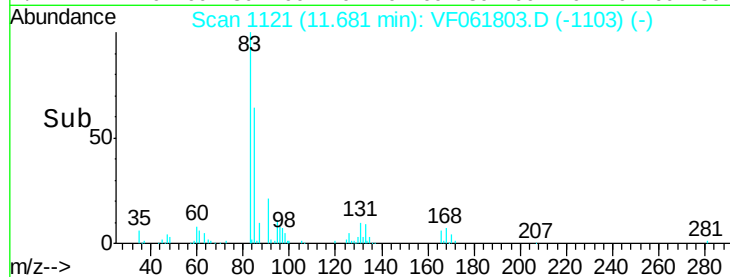
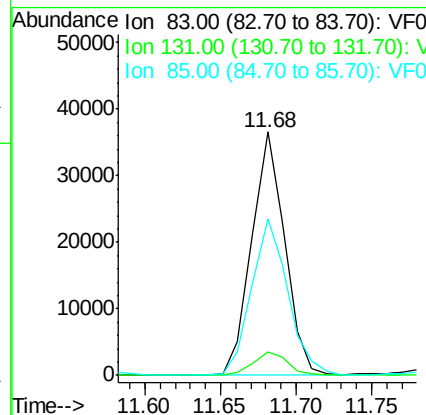
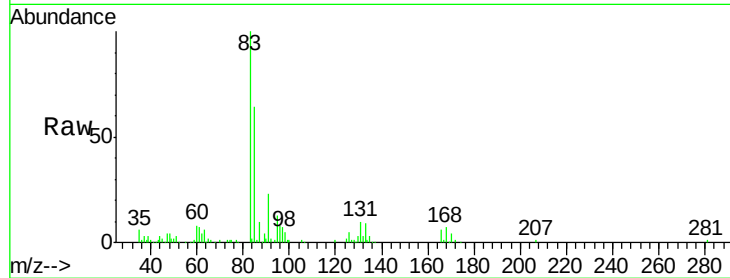
ClientSampleId :

VF0301SBS01

Tot Ion:	83	Resp:	55987
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.4	13.2
85	64.5	31.5	94.5

Manual Integrations
APPROVED

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3/4/2019 4:00:46 PM



#76

1,2,3-Trichloropropane

Concen: 22.423 ug/l

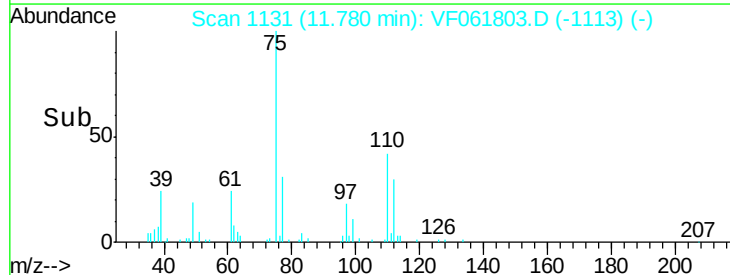
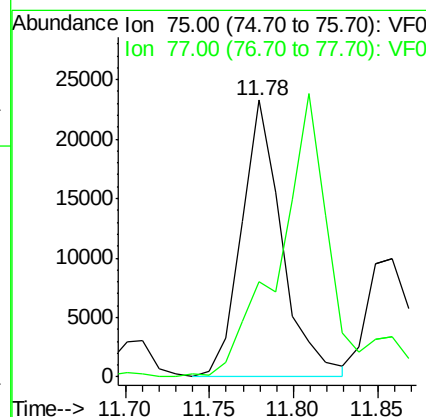
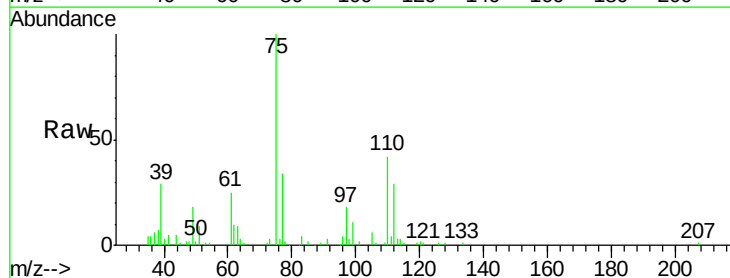
RT: 11.78 min Scan# 1131

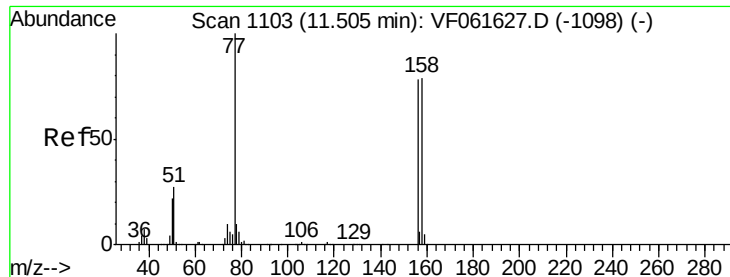
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	75	Resp:	38957
Ion Ratio	Lower	Upper	
75	100		
77	34.5	16.6	49.7





#77

Bromobenzene

Concen: 22.319 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

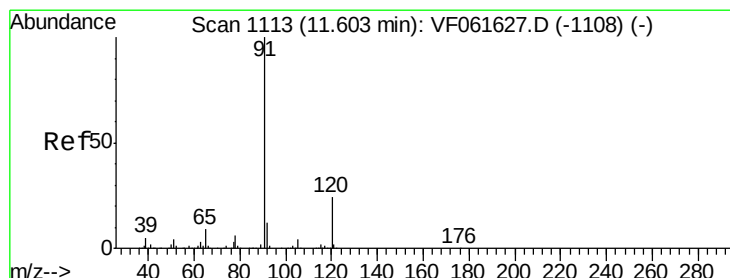
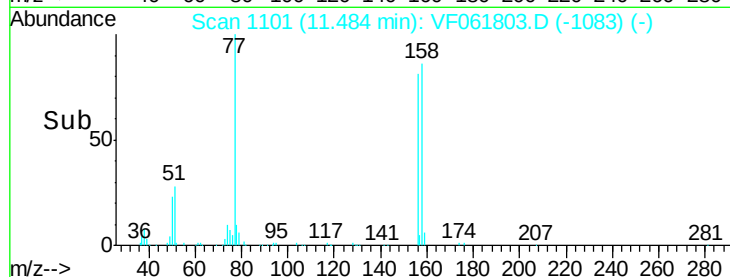
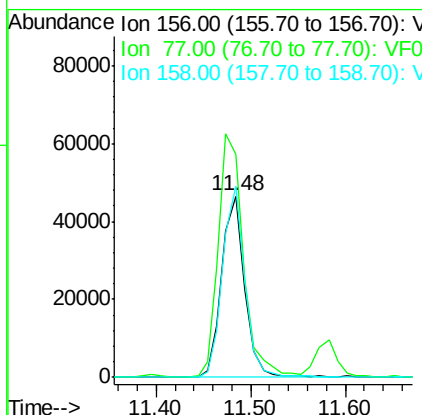
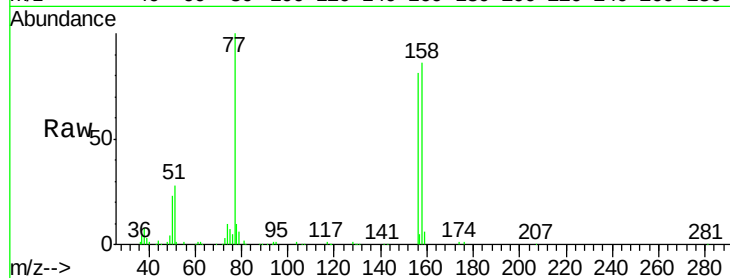
ClientSampleId :

VF0301SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	123.2	64.3	192.7
158	105.7	50.9	152.7

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3/4/2019 4:00:46 PM



#78

n-propylbenzene

Concen: 24.670 ug/l

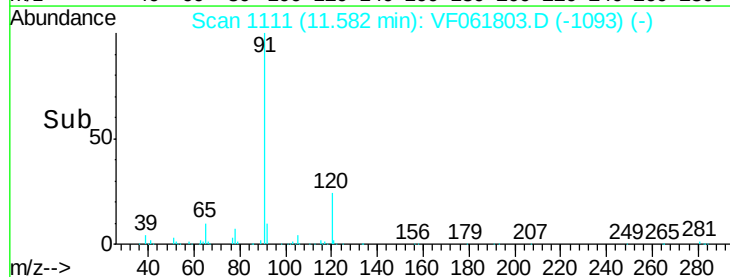
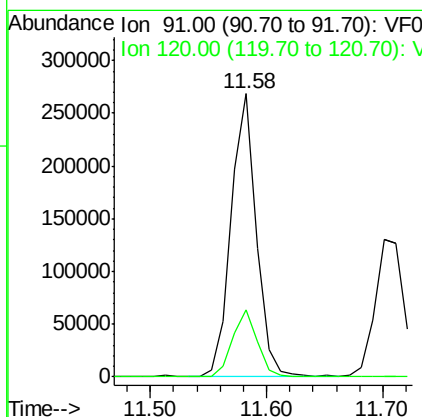
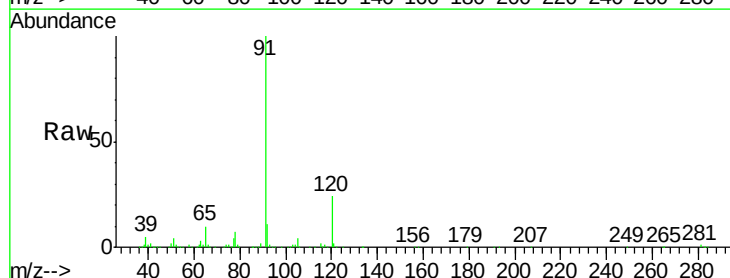
RT: 11.58 min Scan# 1111

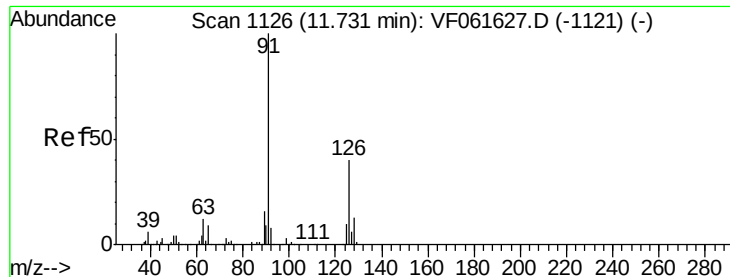
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	12.1	36.3





#79

2-Chlorotoluene

Concen: 24.066 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion: 91 Resp: 220617

Ion Ratio Lower Upper

91 100

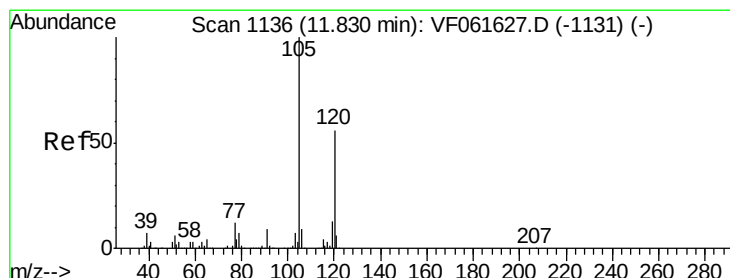
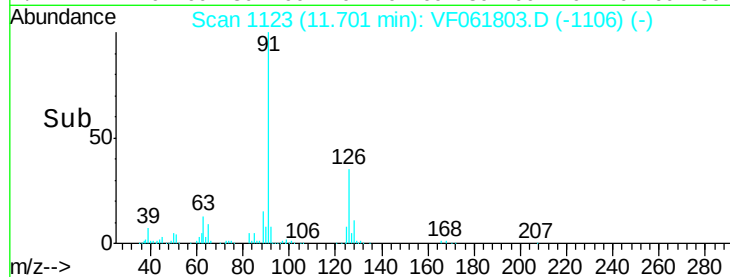
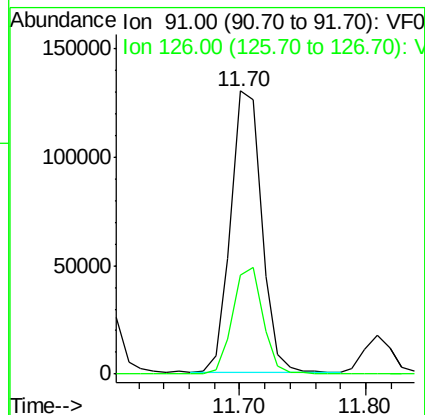
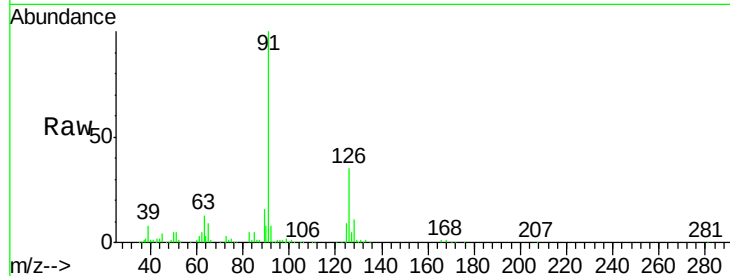
126 35.2 19.8 59.4

Manual Integrations

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3/4/2019 4:00:46 PM



#80

1,3,5-Trimethylbenzene

Concen: 24.925 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061803.D

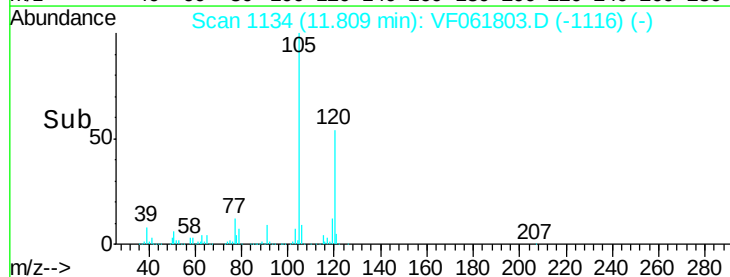
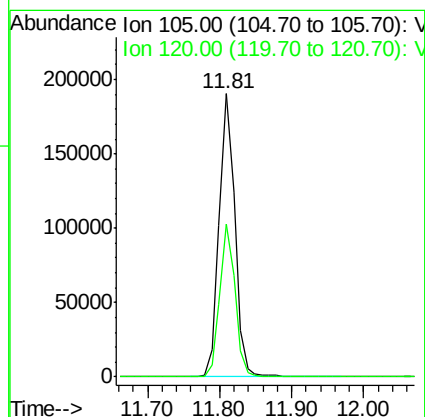
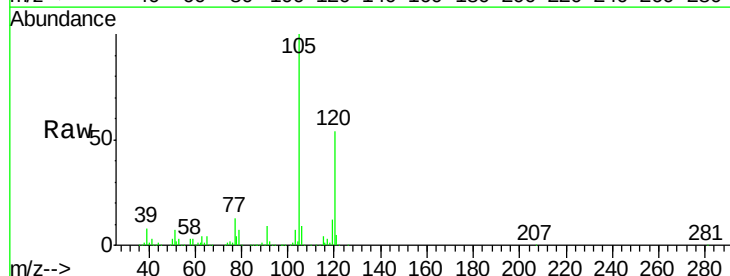
Acq: 1 Mar 2019 15:27

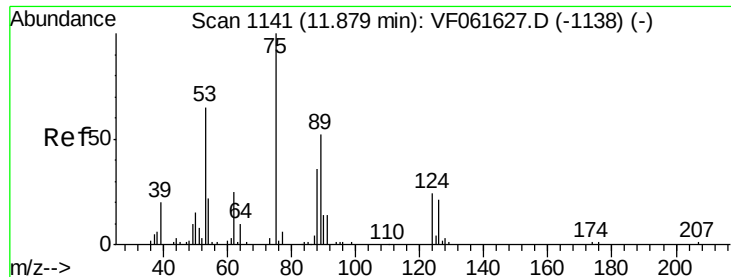
Tgt Ion: 105 Resp: 284146

Ion Ratio Lower Upper

105 100

120 54.1 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 23.098 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

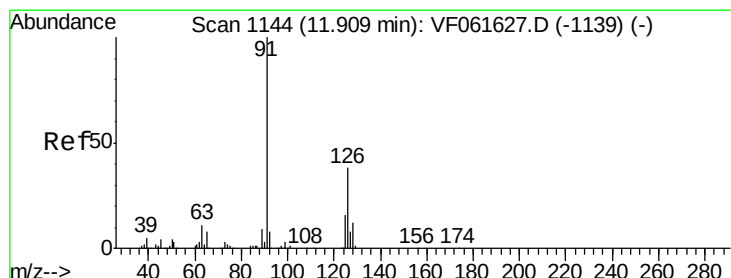
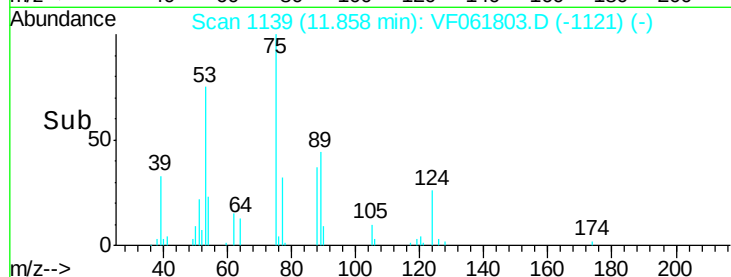
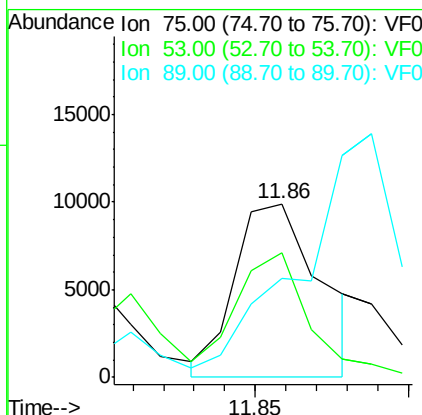
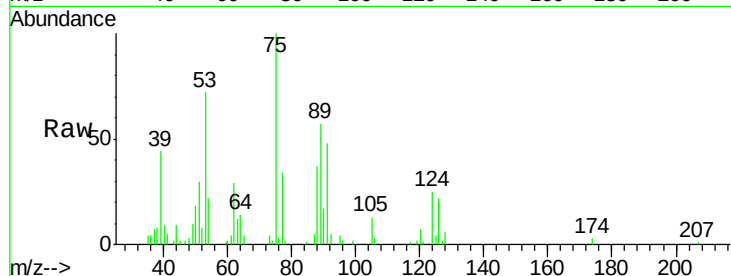
ClientSampleId :

VF0301SBS01

Tot Ion:	75	Resp:	19239
Ion	Ratio	Lower	Upper
75	100		
53	71.7	53.7	80.5
89	57.2	41.6	62.4

Manual Integrations
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3/4/2019 4:00:46 PM



#82

4-Chlorotoluene

Concen: 24.349 ug/l

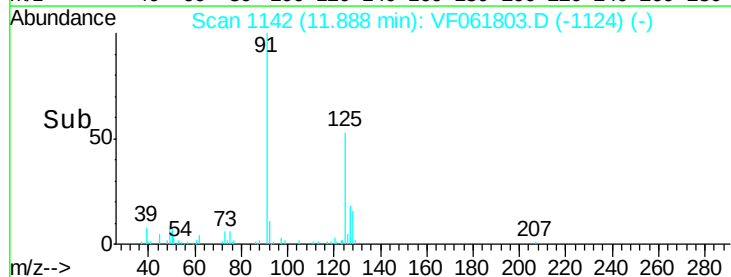
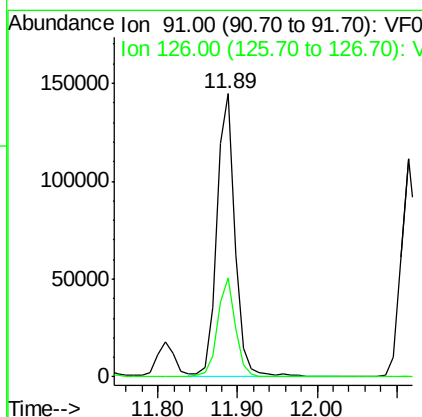
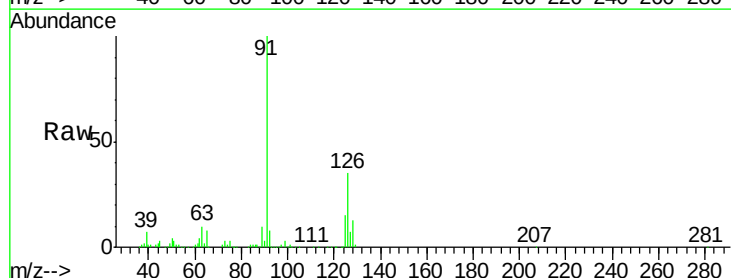
RT: 11.89 min Scan# 1142

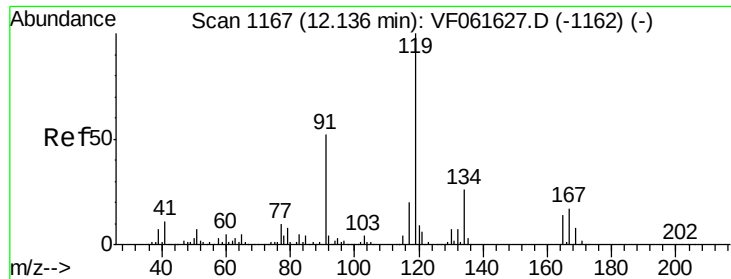
Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Tgt Ion:	91	Resp:	231674
Ion	Ratio	Lower	Upper
91	100		
126	34.8	19.1	57.1





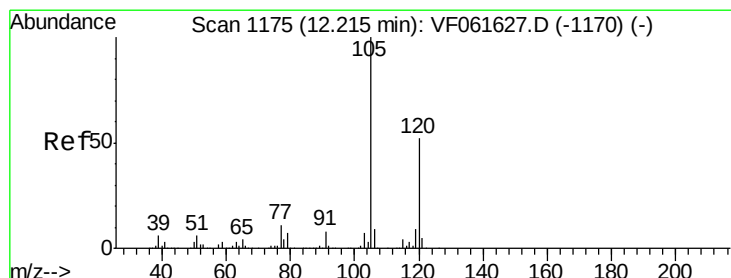
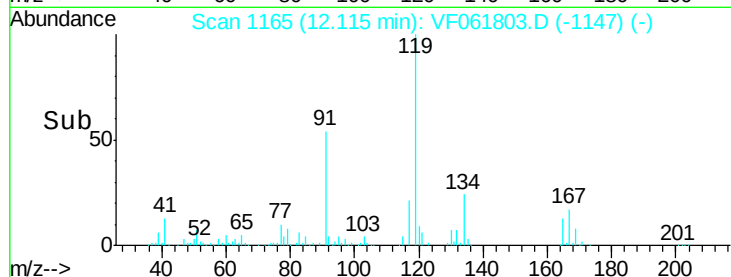
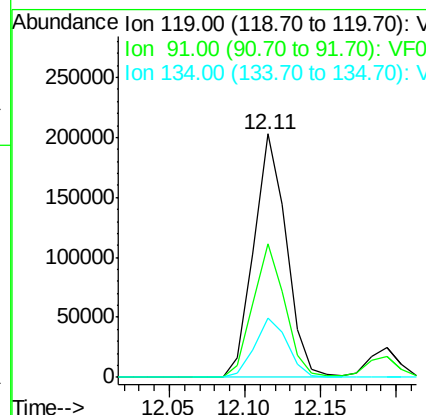
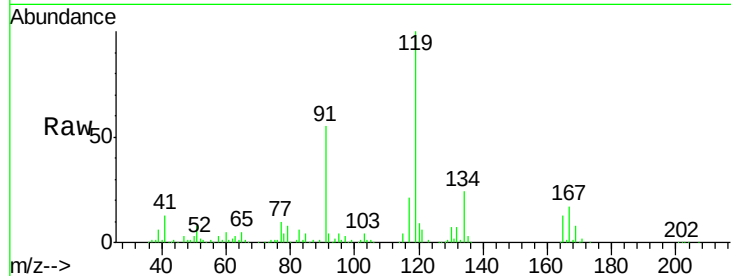
#83
tert-Butylbenzene
Concen: 24.241 ug/l
RT: 12.11 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	306094		
91	55.0	26.3	78.8	
134	24.3	12.9	38.7	

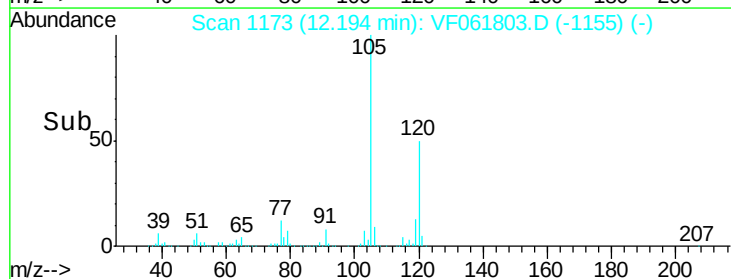
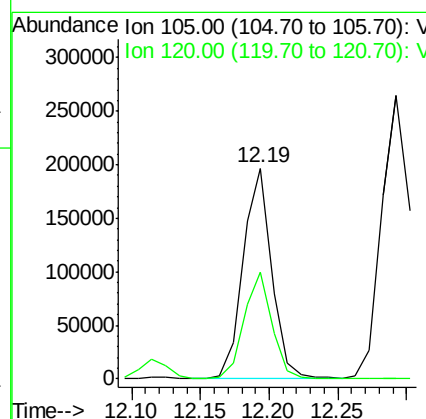
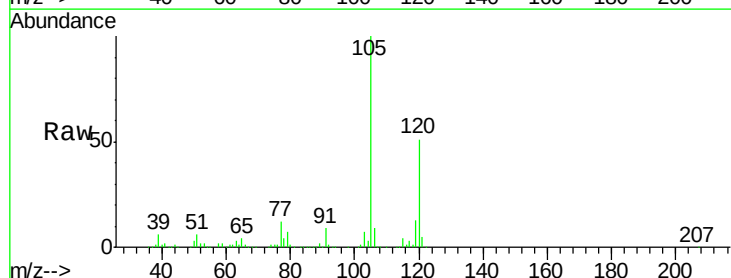
Manual Integrations
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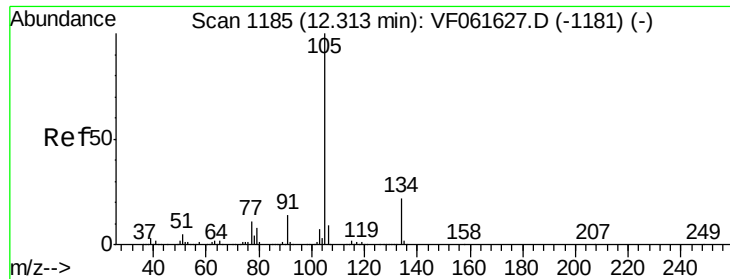
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3/4/2019 4:00:46 PM



#84
1,2,4-Trimethylbenzene
Concen: 25.221 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	285649		
120	50.5	26.1	78.3	





#85

sec-Butylbenzene

Concen: 24.161 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0301SBS01

Tot Ion:105 Resp: 394517

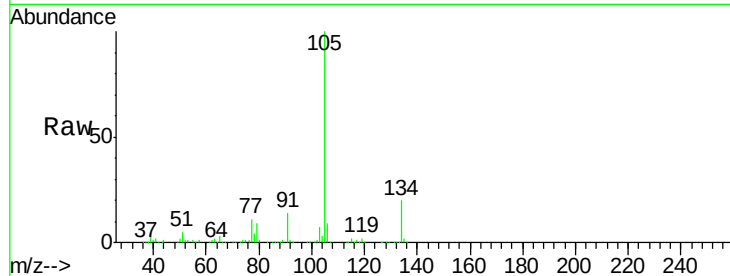
Ion Ratio Lower Upper

105 100

134 20.0 10.8 32.4

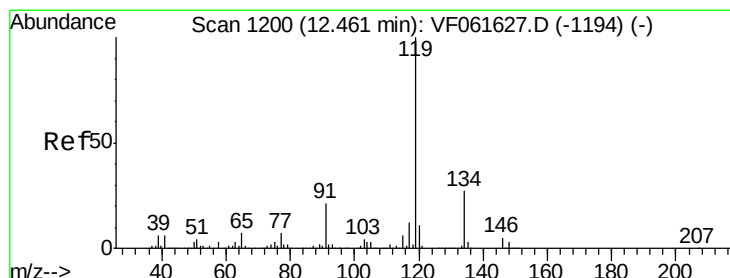
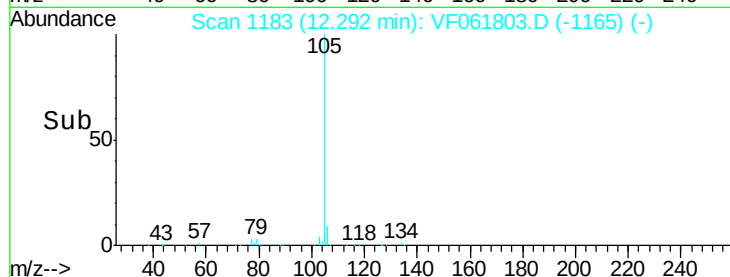
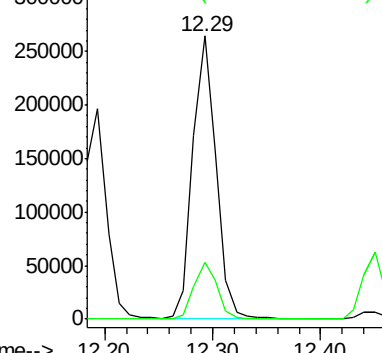
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.708 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061803.D

Acq: 1 Mar 2019 15:27

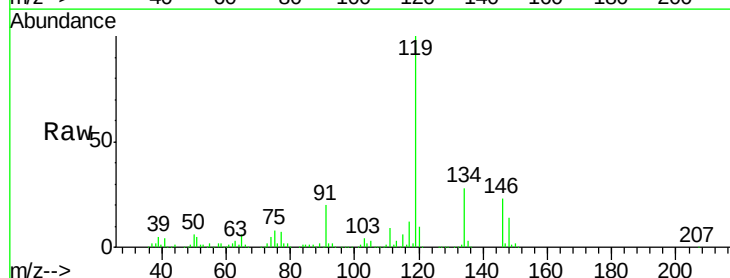
Tgt Ion:119 Resp: 324894

Ion Ratio Lower Upper

119 100

134 27.6 13.7 41.1

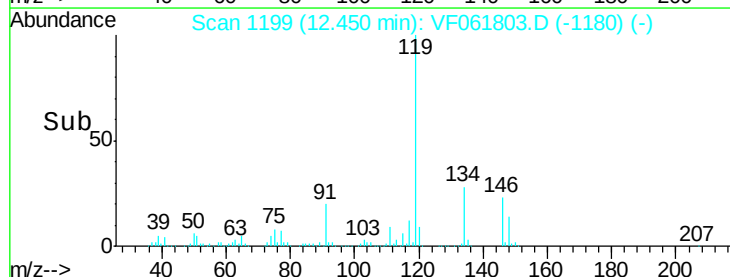
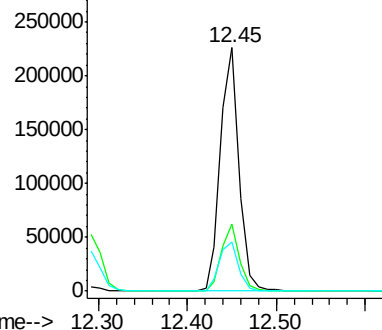
91 20.3 10.8 32.4

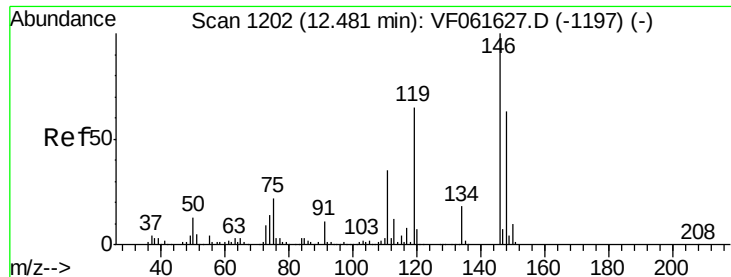


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





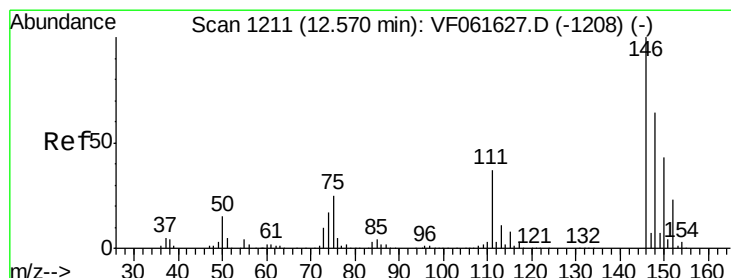
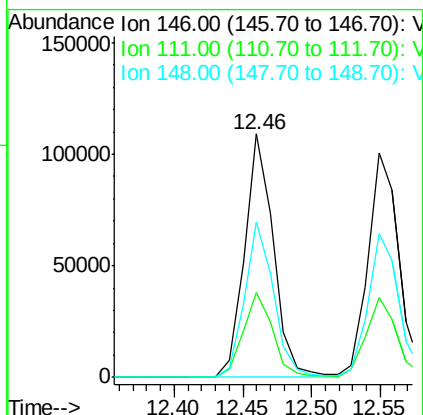
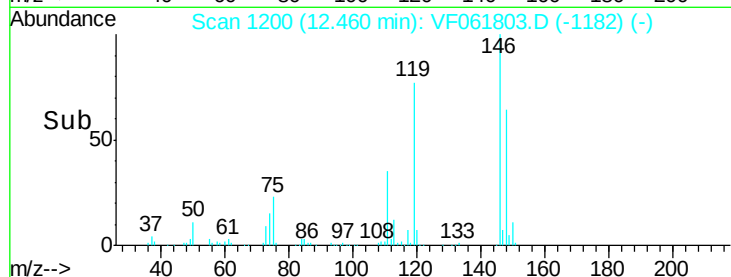
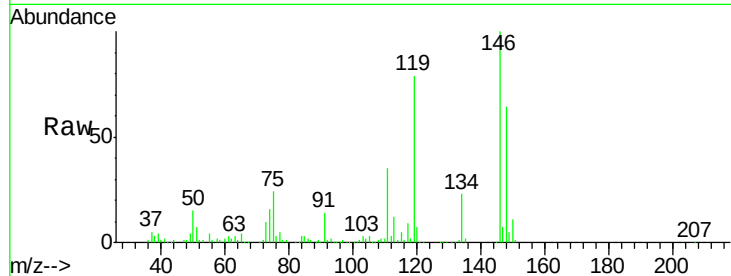
#87
 1,3-Dichlorobenzene
 Concen: 23.320 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.9	17.5	52.6
148	63.9	31.4	94.3

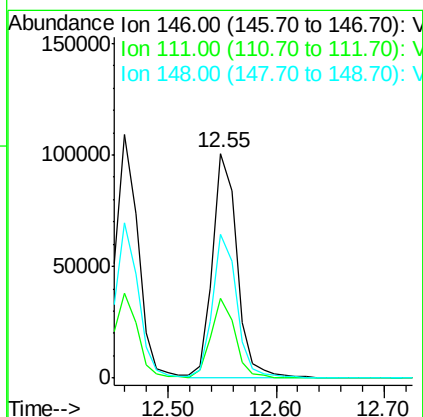
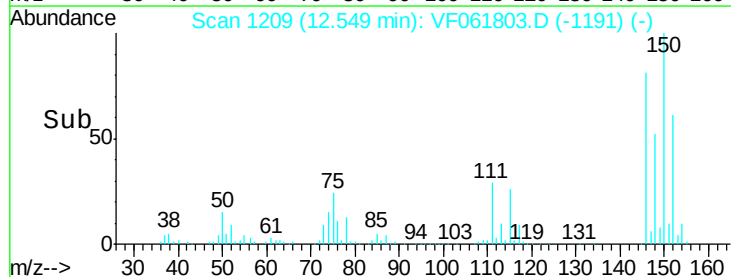
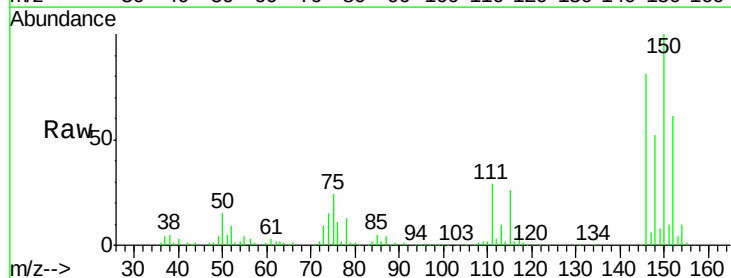
Manual Integrations
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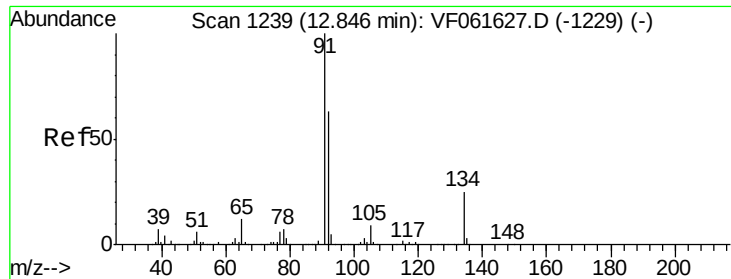
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#88
 1,4-Dichlorobenzene
 Concen: 23.951 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.7	18.4	55.4
148	63.9	32.2	96.6





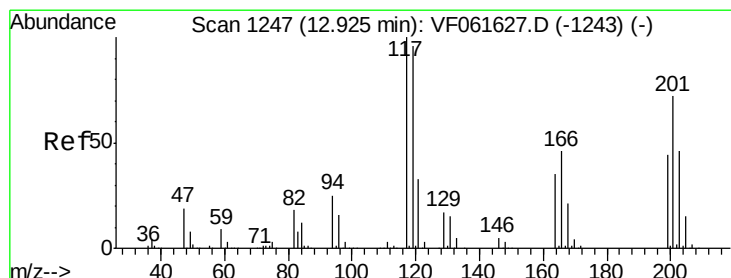
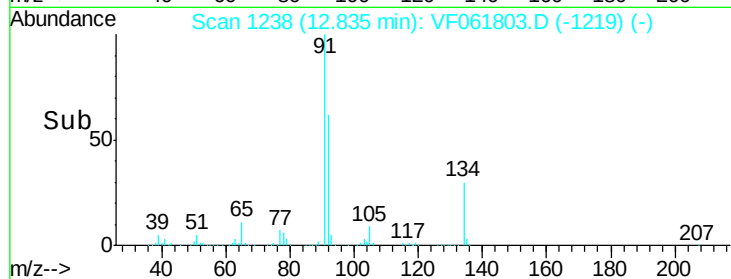
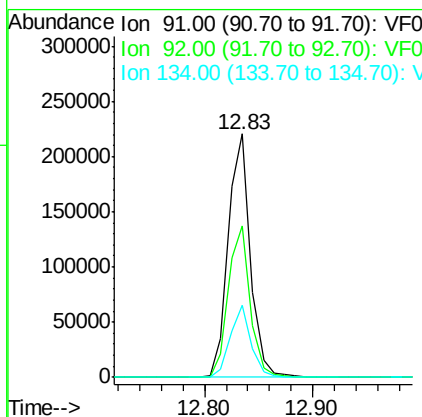
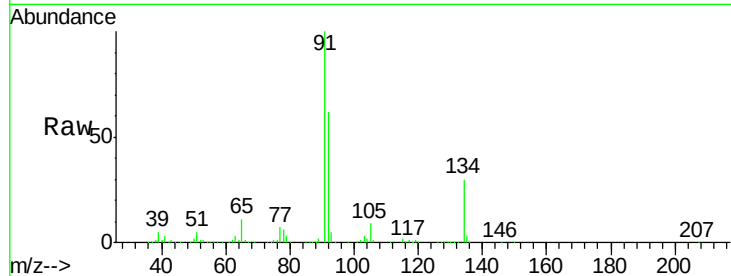
#89
n-Butylbenzene
Concen: 24.263 ug/l
RT: 12.83 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	313967		
92	62.2		31.4	94.3
134	29.6		12.3	36.9

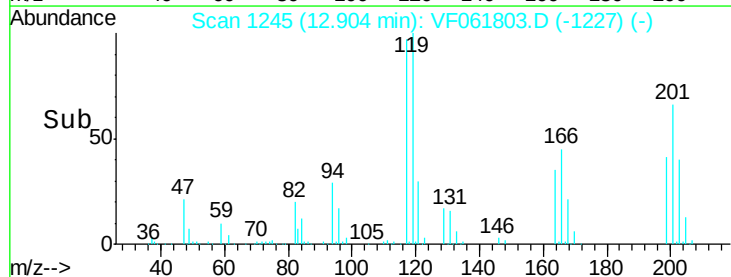
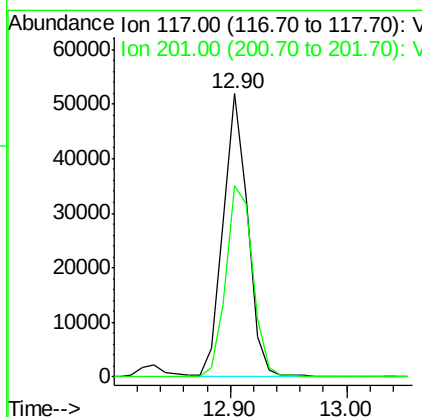
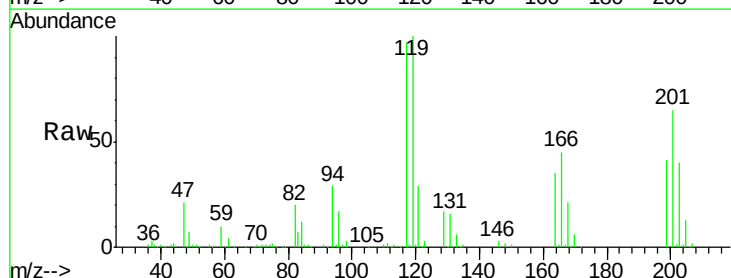
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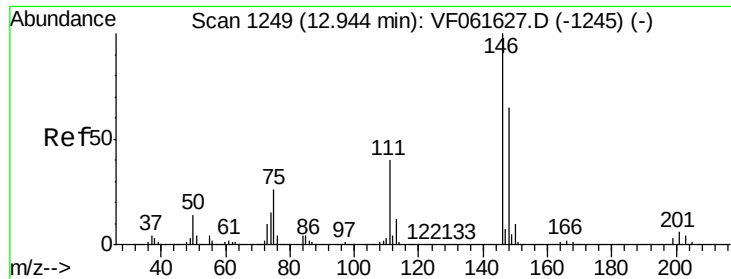
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3/4/2019 4:00:46 PM



#90
Hexachloroethane
Concen: 23.930 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	76269		
201	67.4		36.2	108.6





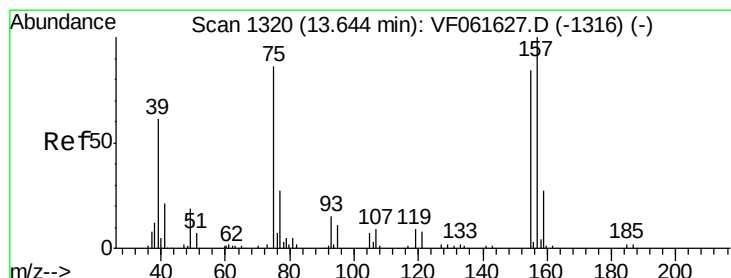
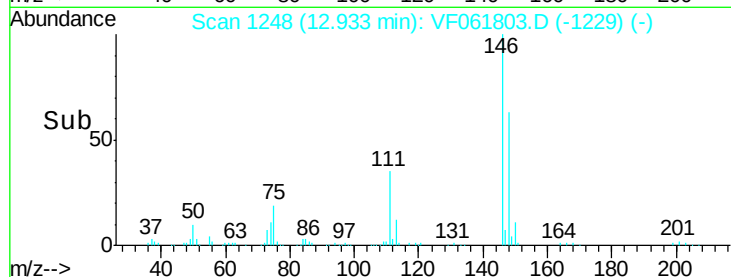
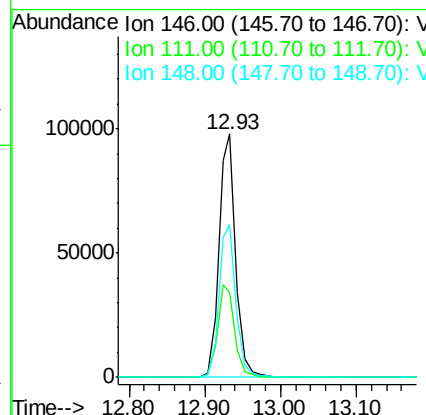
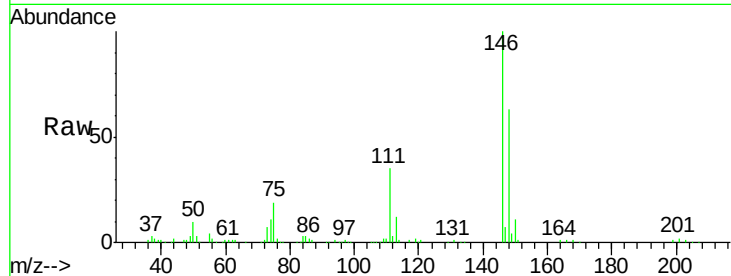
#91
 1,2-Dichlorobenzene
 Concen: 23.403 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.8	20.2	60.5
148	62.7	32.3	96.9

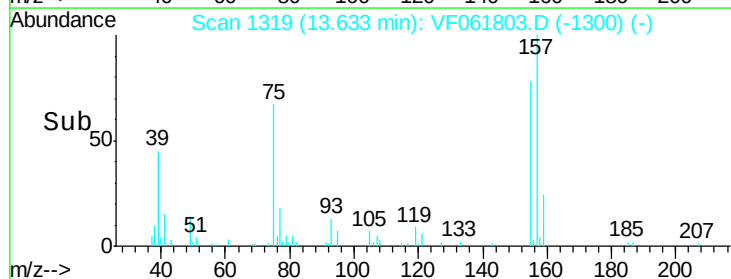
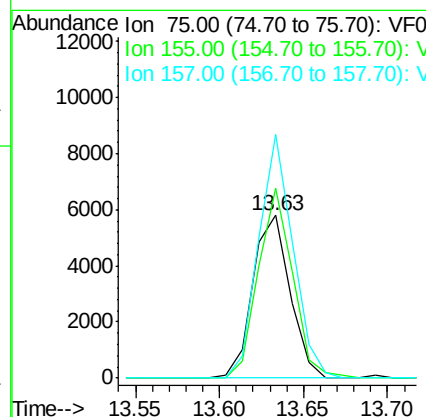
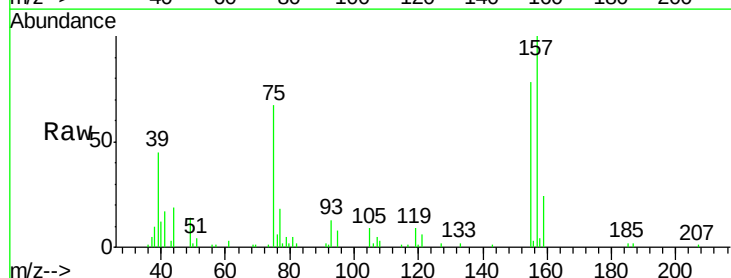
Manual Integrations
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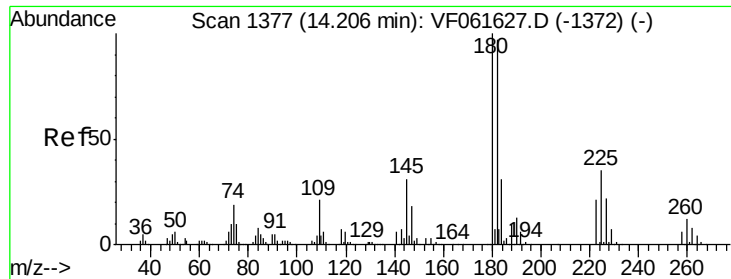
MMDadoda
 3/4/2019 4:00:46 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.922 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	116.8	48.9	146.8
157	150.0	58.3	174.8





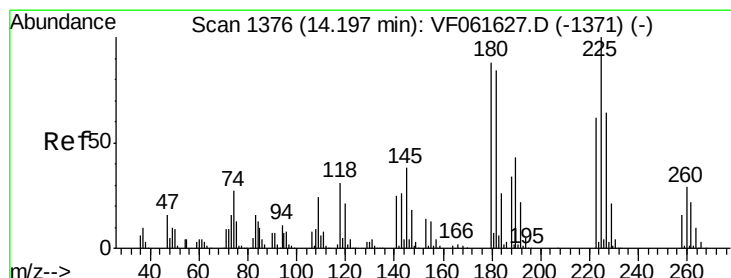
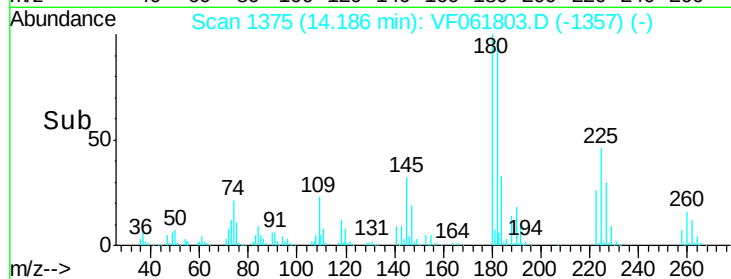
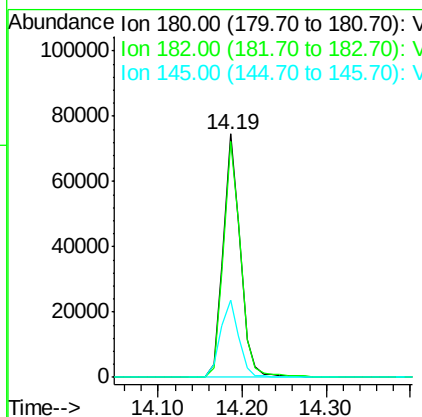
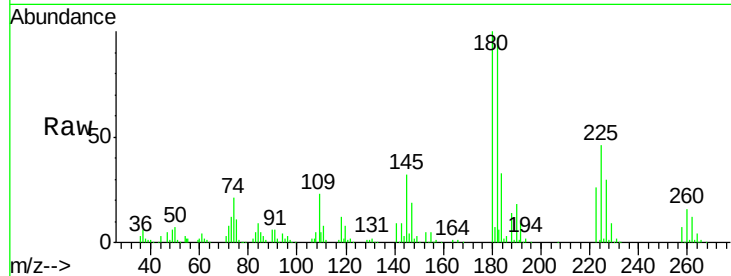
#93
 1,2,4-Trichlorobenzene
 Concen: 22.700 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	106317		
182	97.1	48.6	145.9	
145	31.7	15.3	45.9	

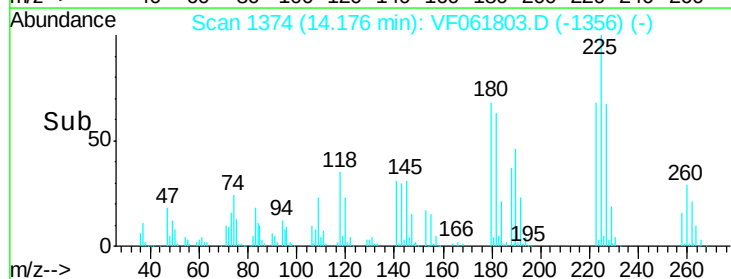
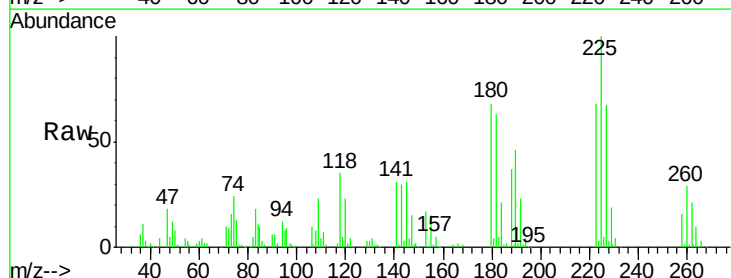
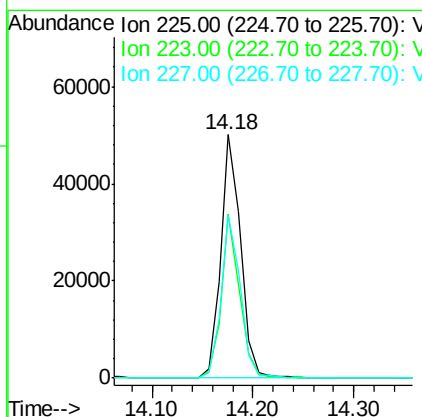
Manual Integrations
 APPROVED

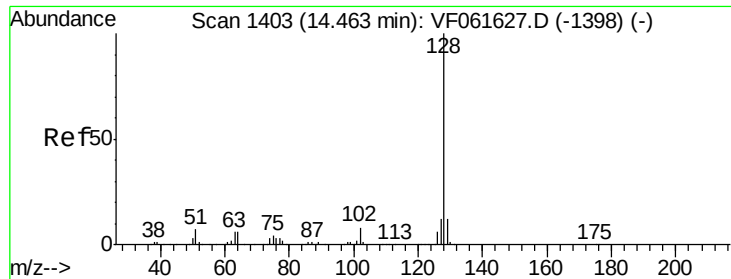
MMDadoda
 3/4/2019 4:00:46 PM



#94
 Hexachlorobutadiene
 Concen: 23.883 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061803.D
 Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	69084		
223	67.7	30.9	92.7	
227	66.8	32.1	96.3	





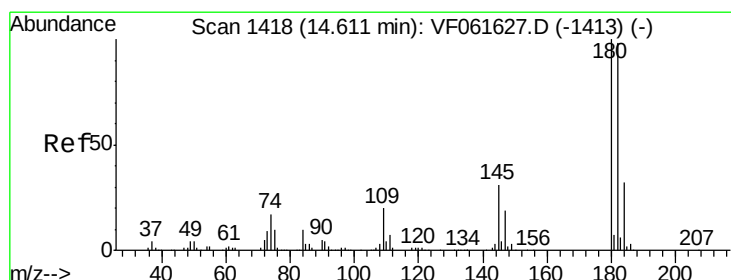
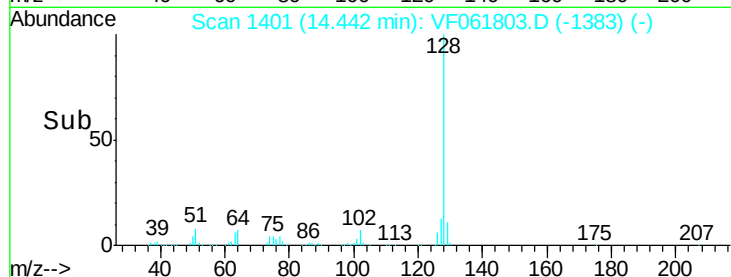
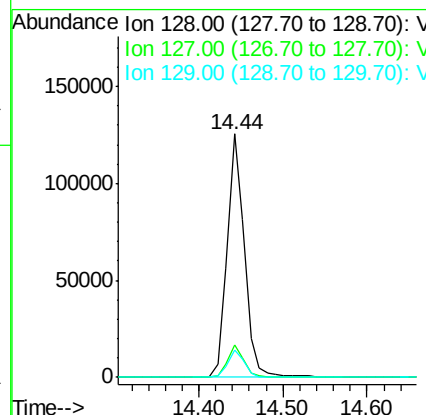
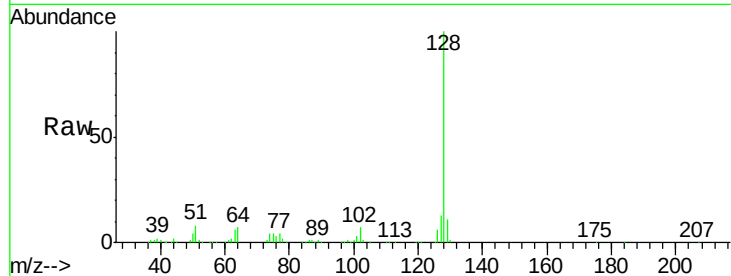
#95
Naphthalene
Concen: 21.914 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0301SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	179572		
127	13.2		9.8	14.6
129	11.3		9.4	14.2

Manual Integrations
APPROVED

MMDadoda
3/4/2019 4:00:46 PM



#96
1,2,3-Trichlorobenzene
Concen: 23.034 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061803.D
Acq: 1 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	99019		
182	93.6		49.0	147.2
145	30.5		15.4	46.1

