

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF021419\
 Data File : VF061634.D
 Acq On : 14 Feb 2019 12:13
 Operator : VA/AP
 Sample : VF0214SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 12:11:35 AM

Quant Time: Feb 15 01:18:13 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	4.86	168	308173	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	467518	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	378821	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	214586	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	116465	51.54	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	103.08%	
35) Dibromofluoromethane	4.10	113	171905	49.51	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	99.02%	
50) Toluene-d8	7.54	98	507904	50.89	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.41	95	197228	48.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	90650	25.614	ug/l	100
3) Chloromethane	1.09	50	89548	24.116	ug/l	98
4) Vinyl Chloride	1.13	62	83515	24.194	ug/l	99
5) Bromomethane	1.31	94	56393	23.737	ug/l	95
6) Chloroethane	1.40	64	37033	21.770	ug/l	93
7) Trichlorofluoromethane	1.47	101	91198m	21.904	ug/l	
8) Diethyl Ether	1.63	74	22186	21.145	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.84	101	67044	22.322	ug/l	93
10) Methyl Iodide	1.90	142	126987m	22.133	ug/l	
11) Tert butyl alcohol	2.56	59	13205	100.965	ug/l	96
12) 1,1-Dichloroethene	1.79	96	64310	24.353	ug/l	99
13) Acrolein	1.99	56	16460	100.136	ug/l	99
14) Allyl chloride	2.09	41	71246	21.986	ug/l	97
15) Acrylonitrile	2.94	53	46123	99.423	ug/l	97
16) Acetone	2.23	43	54649	112.709	ug/l	96
17) Carbon Disulfide	1.80	76	188044m	22.654	ug/l	
18) Methyl Acetate	2.35	43	21355	19.551	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	100627	22.296	ug/l #	91
20) Methylene Chloride	2.17	84	70199m	25.799	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	54234	18.892	ug/l	99
22) Diisopropyl ether	2.79	45	170273	21.890	ug/l	100
23) Vinyl Acetate	3.17	43	392511	103.313	ug/l	96
24) 1,1-Dichloroethane	2.86	63	101464	21.555	ug/l	99
25) 2-Butanone	4.32	43	110723	104.544	ug/l	99
26) 2,2-Dichloropropane	3.60	77	44359	22.247	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	81053	21.511	ug/l	97
28) Bromochloromethane	3.71	49	46382	20.536	ug/l #	96
29) Tetrahydrofuran	4.06	42	45434	94.384	ug/l	97
30) Chloroform	3.85	83	114032	21.301	ug/l	100
31) Cyclohexane	3.68	56	117823m	23.121	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	68621	19.568	ug/l	94
36) 1,1-Dichloropropene	4.27	75	95708	20.665	ug/l	96
37) Ethyl Acetate	4.10	43	38135	17.728	ug/l #	82
38) Carbon Tetrachloride	3.98	117	66873	20.911	ug/l	94

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	117640	21.478	ug/l	99
40) Benzene	4.62	78	268665	22.178	ug/l	95
41) Methacrylonitrile	4.74	41	21332	19.391	ug/l	96
42) 1,2-Dichloroethane	4.93	62	56372	19.454	ug/l	95
43) Isopropyl Acetate	6.95	43	45622	17.917	ug/l #	92
44) Trichloroethene	5.49	130	85845	21.914	ug/l	93
45) 1,2-Dichloropropane	6.23	63	61982	21.167	ug/l	94
46) Dibromomethane	6.08	93	36642	20.324	ug/l	89
47) Bromodichloromethane	6.38	83	80604	20.416	ug/l	97
48) Methyl methacrylate	6.71	41	28276	18.453	ug/l	94
49) 1,4-Dioxane	6.70	88	5337	370.506	ug/l #	85
51) 4-Methyl-2-Pentanone	8.25	43	174906	96.134	ug/l	99
52) Toluene	7.61	92	148320	20.188	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	65282	19.867	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	93925	21.460	ug/l	98
55) 1,1,2-Trichloroethane	8.49	97	41256	19.112	ug/l	93
56) Ethyl methacrylate	8.62	69	43008	17.895	ug/l	97
57) 1,3-Dichloropropane	8.84	76	72776	20.199	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.29	63	35729	86.165	ug/l	96
59) 2-Hexanone	9.48	43	124700	97.777	ug/l	95
60) Dibromochloromethane	8.71	129	57995	19.303	ug/l	93
61) 1,2-Dibromoethane	8.98	107	45942	19.622	ug/l	94
64) Tetrachloroethene	8.14	164	71588	23.120	ug/l	99
65) Chlorobenzene	9.79	112	170957	22.239	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.92	131	68790	22.837	ug/l	99
67) Ethyl Benzene	9.89	91	286710	22.428	ug/l	100
68) m/p-Xylenes	10.13	106	230710	47.156	ug/l	99
69) o-Xylene	10.71	106	127251	24.375	ug/l	97
70) Styrene	10.79	104	161603	21.882	ug/l	98
71) Bromoform	10.77	173	33385	20.410	ug/l	99
73) Isopropylbenzene	11.12	105	352376	23.064	ug/l	98
74) N-amyl acetate	11.37	43	76310	20.809	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	53349	19.491	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	36061	19.378	ug/l	88
77) Bromobenzene	11.49	156	80490	21.325	ug/l	89
78) n-propylbenzene	11.58	91	405070	23.104	ug/l	96
79) 2-Chlorotoluene	11.71	91	217416	22.143	ug/l	94
80) 1,3,5-Trimethylbenzene	11.82	105	282348	23.123	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.86	75	17023m	19.081	ug/l	
82) 4-Chlorotoluene	11.89	91	223746	21.954	ug/l	91
83) tert-Butylbenzene	12.13	119	307177	22.712	ug/l	100
84) 1,2,4-Trimethylbenzene	12.20	105	280267	23.103	ug/l	97
85) sec-Butylbenzene	12.30	105	401494	22.956	ug/l	99
86) p-Isopropyltoluene	12.45	119	347863	23.699	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	158689	21.566	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	154545	21.839	ug/l	98
89) n-Butylbenzene	12.84	91	334411	24.127	ug/l	99
90) Hexachloroethane	12.91	117	73442	21.514	ug/l	79
91) 1,2-Dichlorobenzene	12.94	146	153827	21.979	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8330	19.195	ug/l	95

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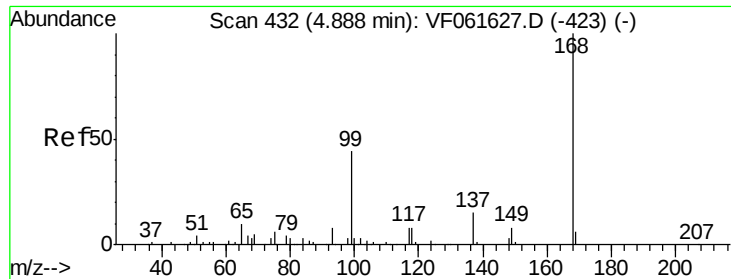
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	112794	22.484	ug/l	97
94) Hexachlorobutadiene	14.19	225	70580	22.781	ug/l	97
95) Naphthalene	14.45	128	173986	19.823	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	99421	21.592	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 168 Resp: 308173

Ion Ratio Lower Upper

168 100

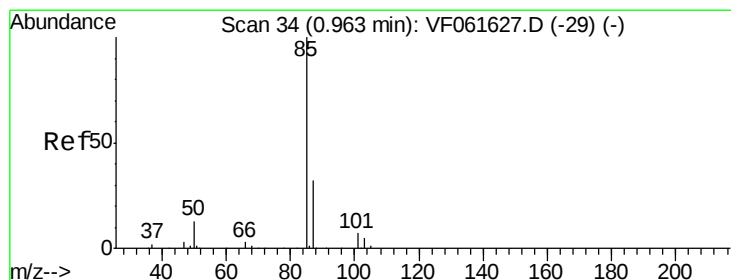
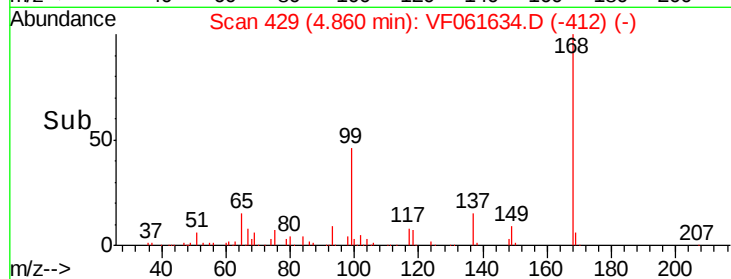
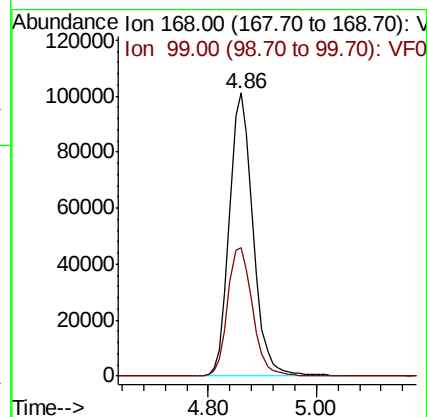
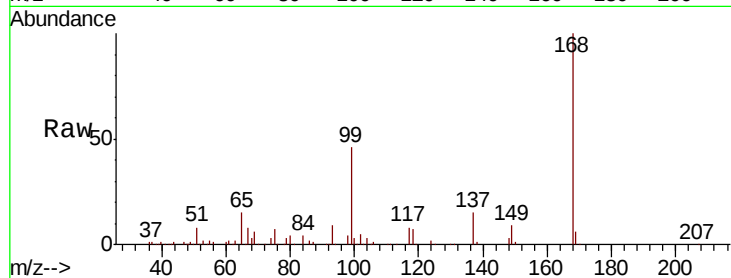
99 45.6 34.9 52.3

Manual Integrations

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2/18/2019 12:11:35 AM



#2

Dichlorodifluoromethane

Concen: 25.614 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061634.D

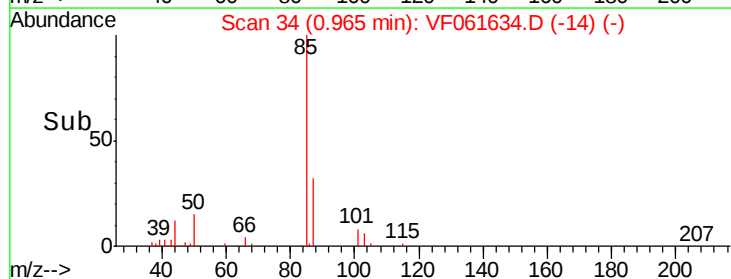
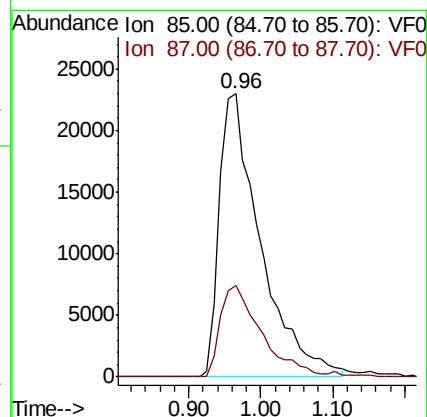
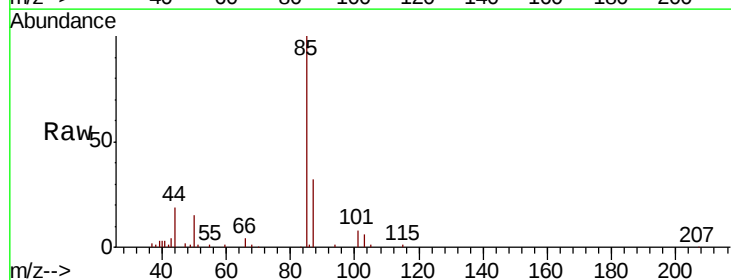
Acq: 14 Feb 2019 12:13

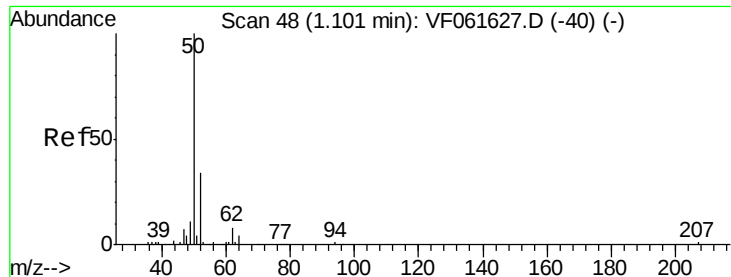
Tgt Ion: 85 Resp: 90650

Ion Ratio Lower Upper

85 100

87 32.1 16.1 48.2





#3

Chloromethane

Concen: 24.116 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 50 Resp: 89548

Ion Ratio Lower Upper

50 100

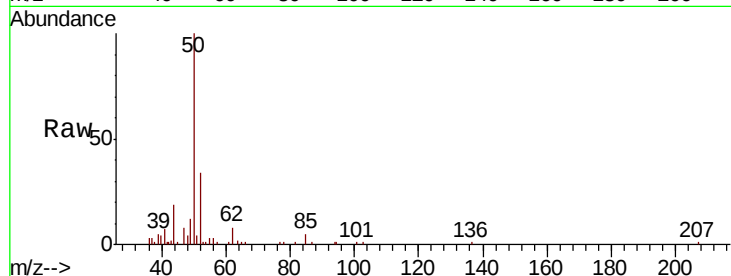
52 33.8 26.2 39.4

Manual Integrations

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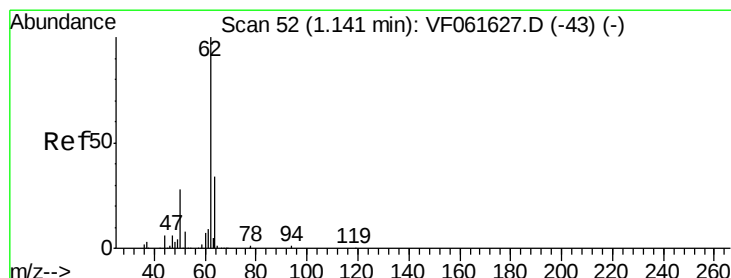
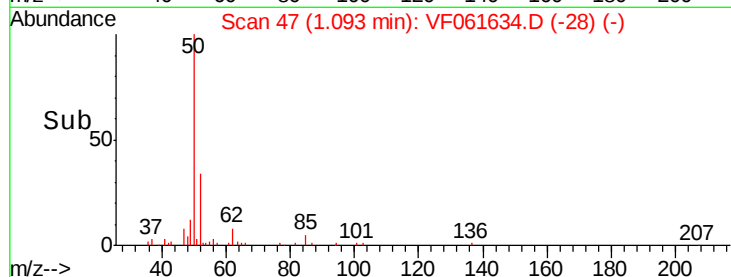
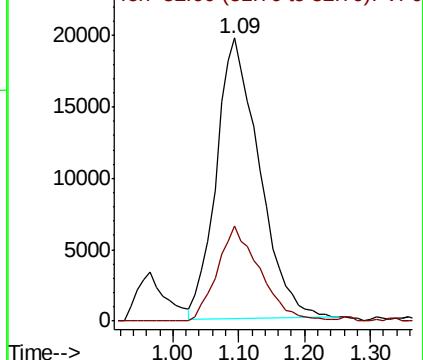
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 24.194 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061634.D

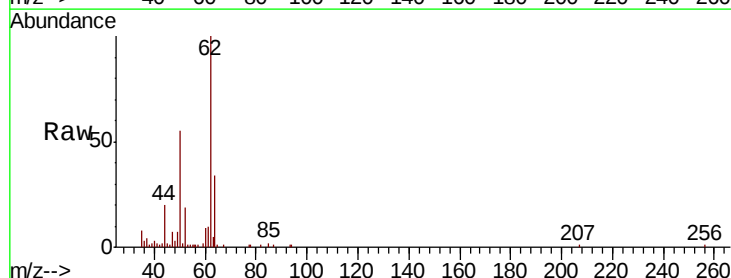
Acq: 14 Feb 2019 12:13

Tgt Ion: 62 Resp: 83515

Ion Ratio Lower Upper

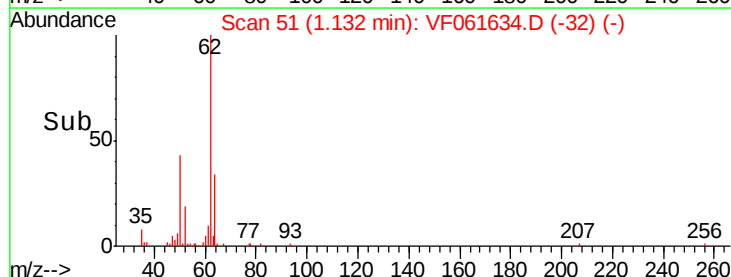
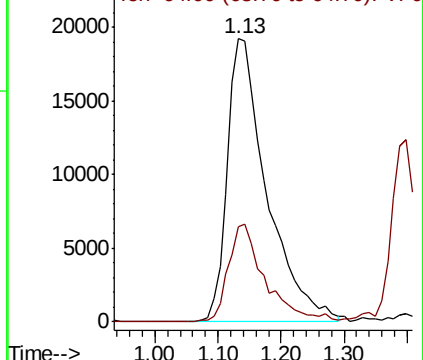
62 100

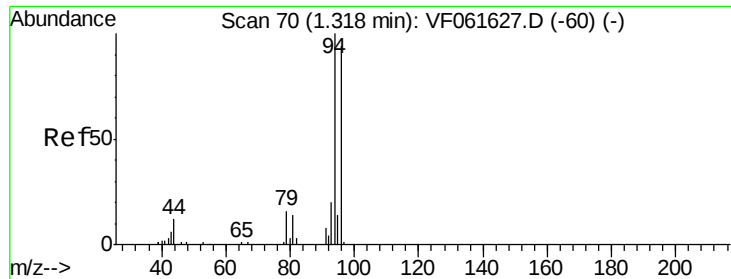
64 33.7 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 23.737 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 94 Resp: 56393

Ion Ratio Lower Upper

94 100

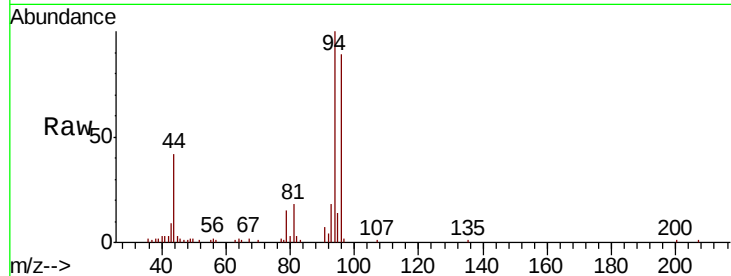
96 88.6 74.6 112.0

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

15000

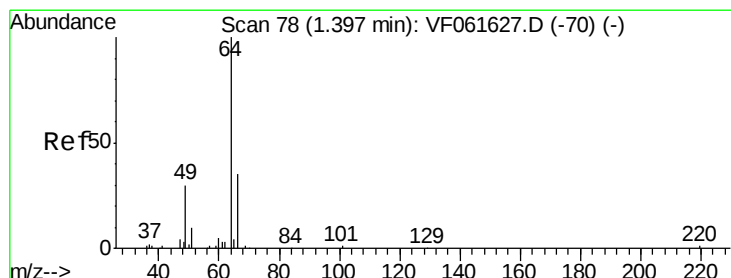
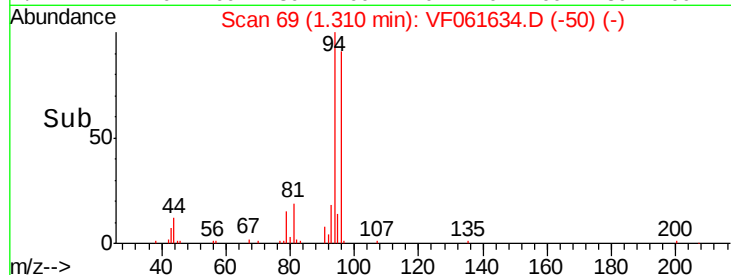
10000

5000

0

1.20 1.30 1.40 1.50

Time-->



#6

Chloroethane

Concen: 21.770 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061634.D

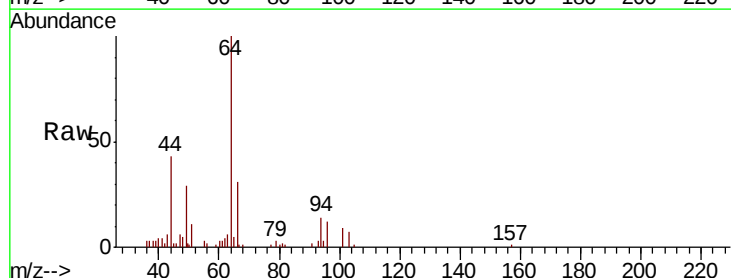
Acq: 14 Feb 2019 12:13

Tgt Ion: 64 Resp: 37033

Ion Ratio Lower Upper

64 100

66 30.9 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

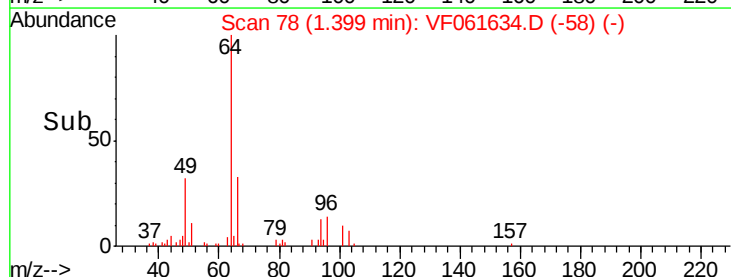
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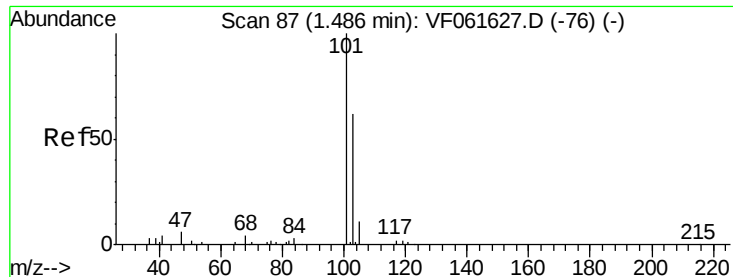
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0

1.20 1.30 1.40 1.50

Time-->





#7

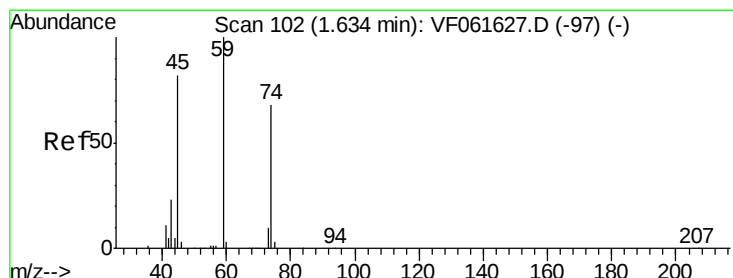
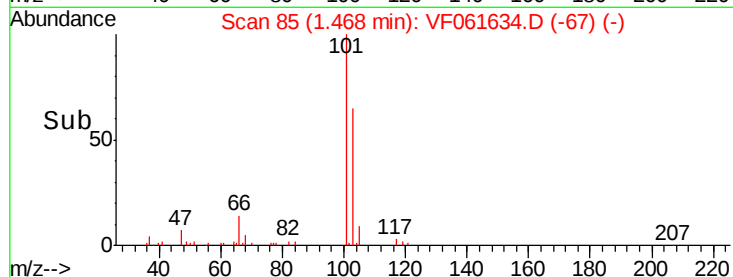
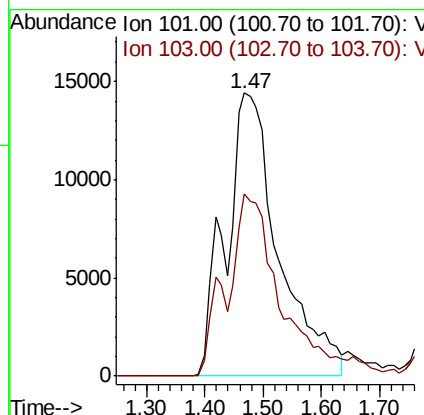
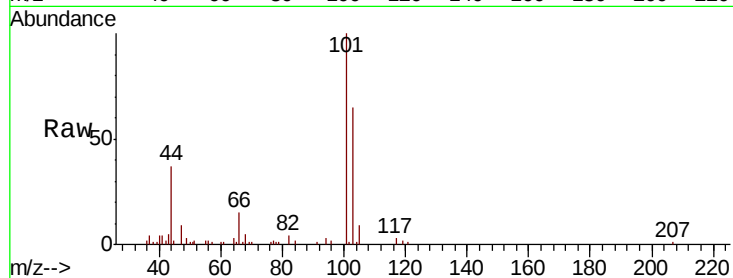
Trichlorofluoromethane
Concen: 21.904 ug/l m
RT: 1.47 min Scan# 85
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion: 101 Resp: 91198
Ion Ratio Lower Upper
101 100
103 64.5 49.3 73.9

Manual Integrations
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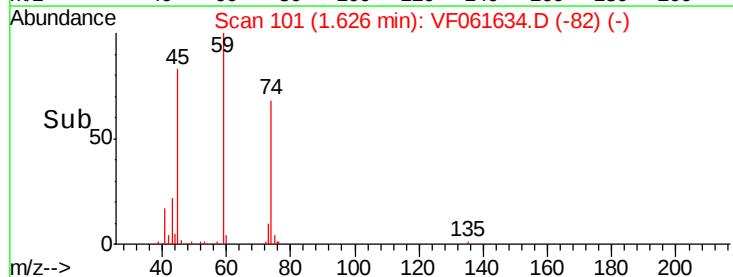
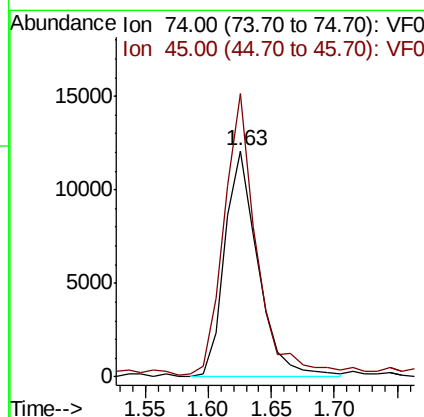
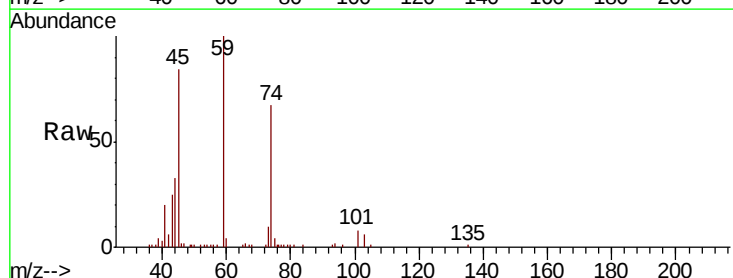
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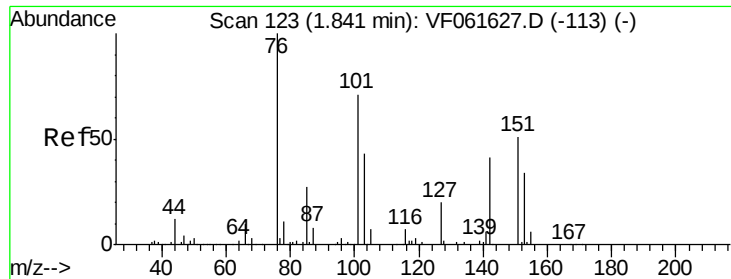


#8

Diethyl Ether
Concen: 21.145 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion: 74 Resp: 22186
Ion Ratio Lower Upper
74 100
45 125.3 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.322 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061634.D

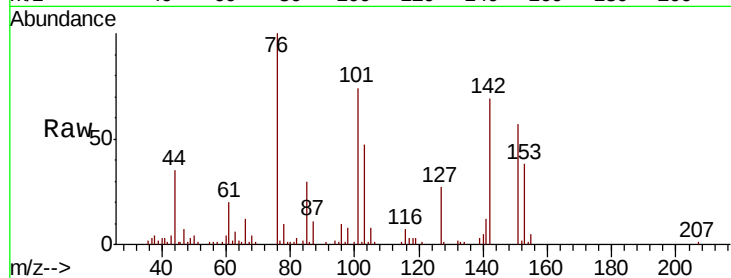
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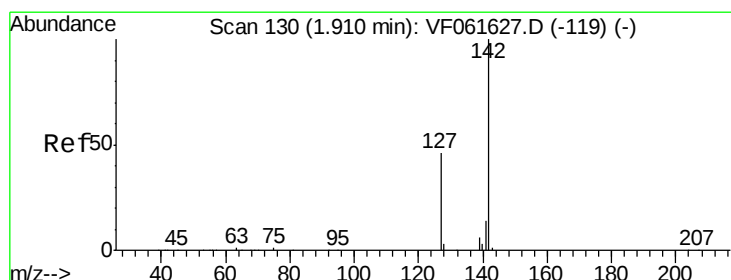
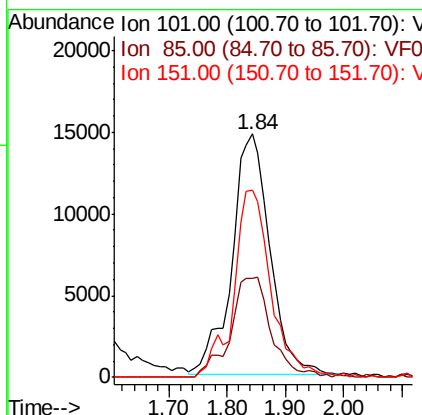
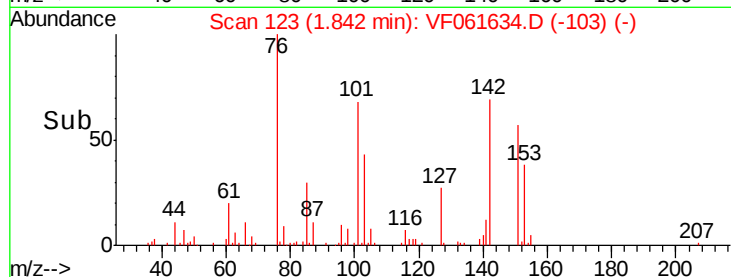
VF0214SBS01



Tgt Ion:	101	Resp:	67044
Ion Ratio	Lower	Upper	
101	100		
85	40.5	29.8	44.6
151	77.0	56.3	84.5

Manual Integrations
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#10

Methyl Iodide

Concen: 22.133 ug/l m

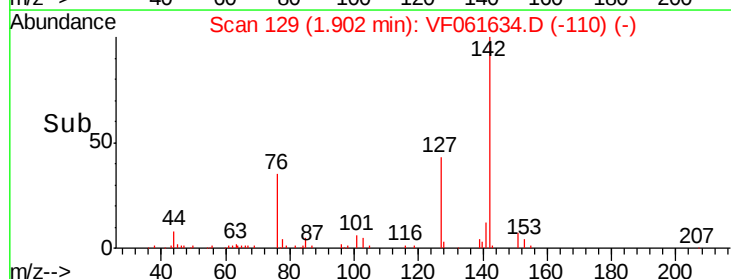
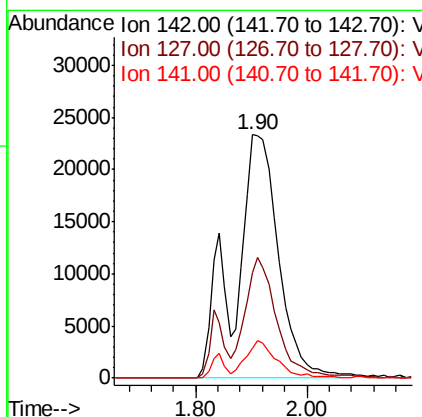
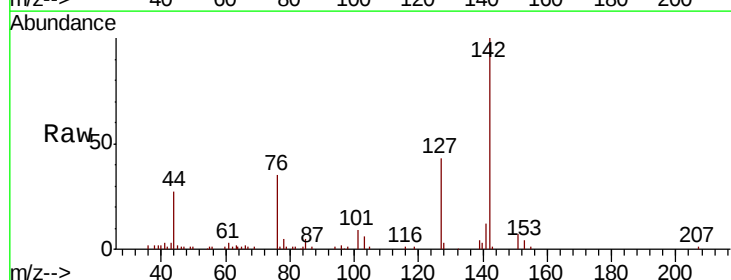
RT: 1.90 min Scan# 129

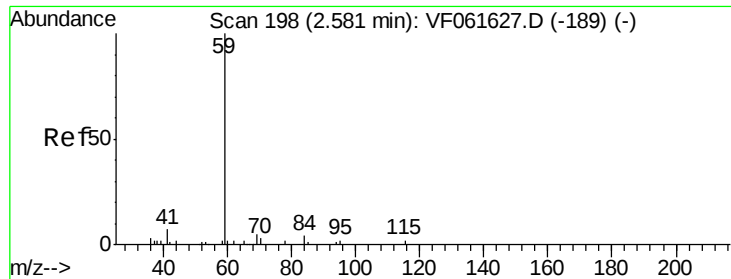
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	142	Resp:	126987
Ion Ratio	Lower	Upper	
142	100		
127	43.4	36.6	55.0
141	12.3	11.0	16.6





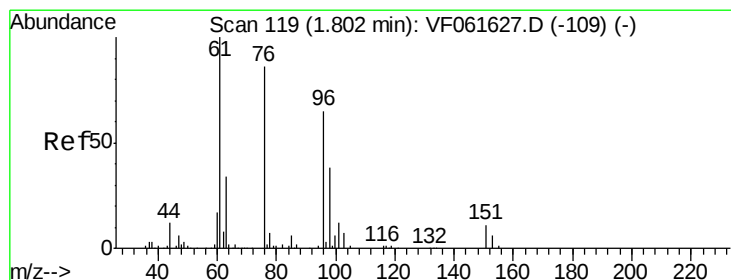
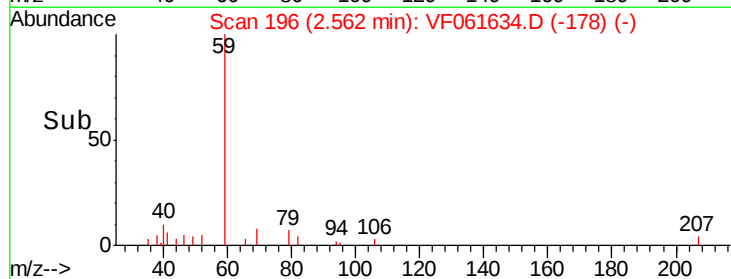
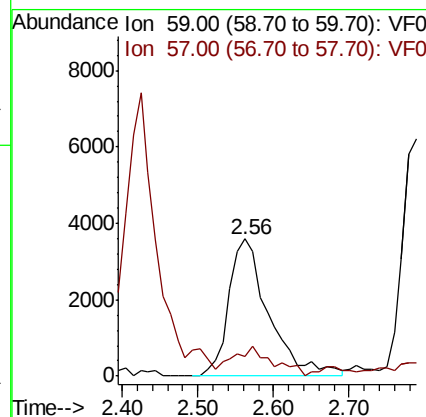
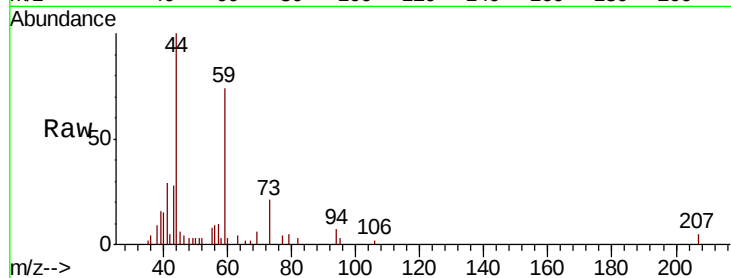
#11
Tert butyl alcohol
Concen: 100.965 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion: 59 Resp: 13205
Ion Ratio Lower Upper
59 100
57 14.0 12.5 18.7

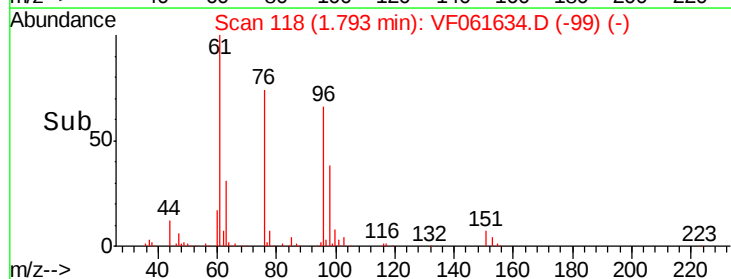
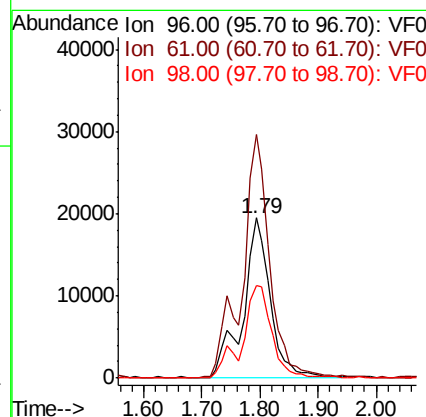
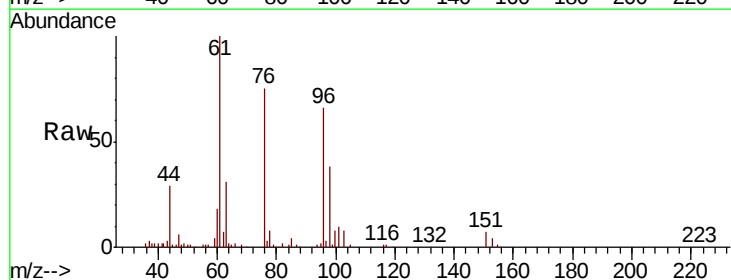
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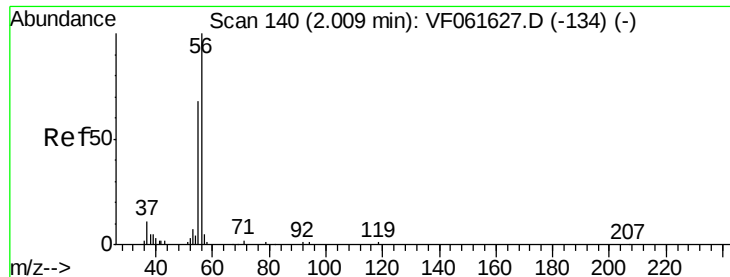
MMDadoda
2/18/2019 12:11:35 AM



#12
1,1-Dichloroethene
Concen: 24.353 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion: 96 Resp: 64310
Ion Ratio Lower Upper
96 100
61 151.8 122.6 184.0
98 57.9 47.2 70.8





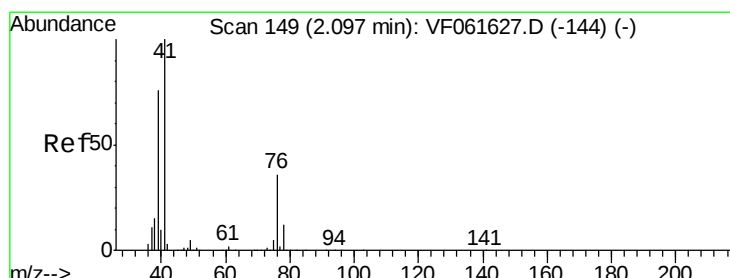
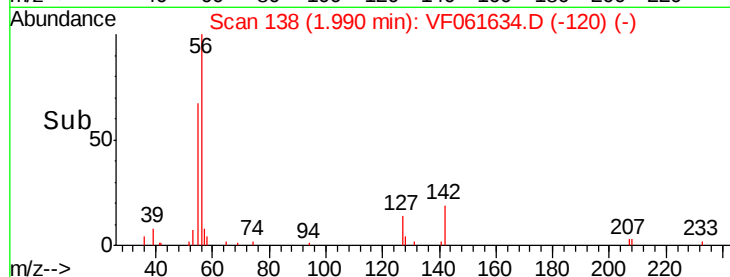
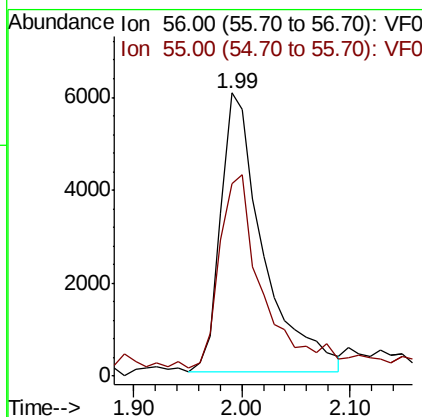
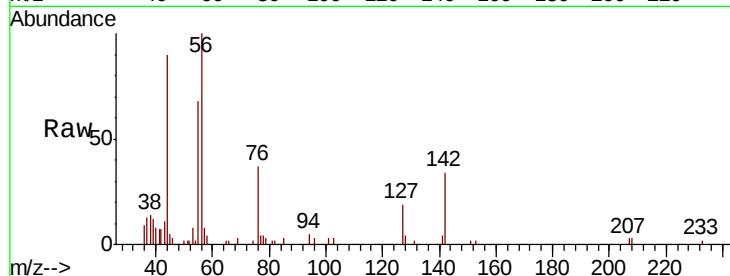
#13
Acrolein
Concen: 100.136 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
55	68.1	55.0	82.6

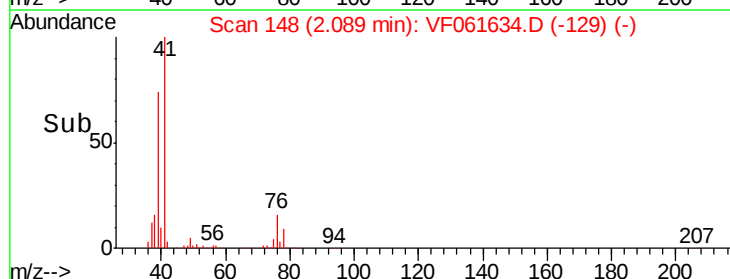
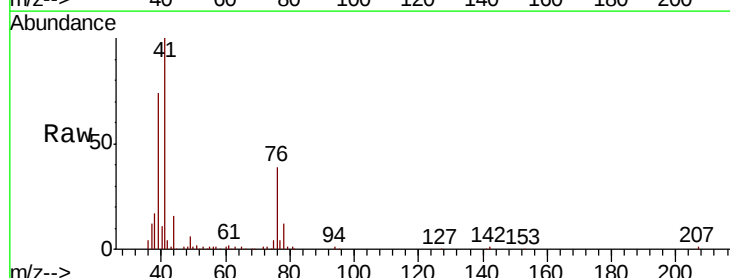
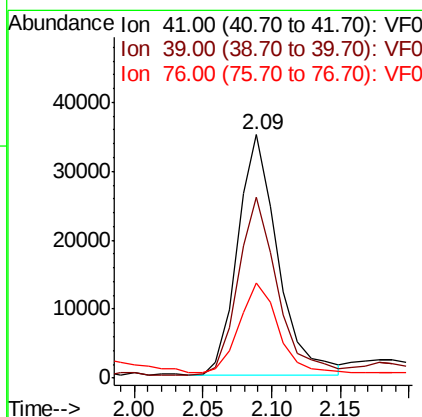
Manual Integrations
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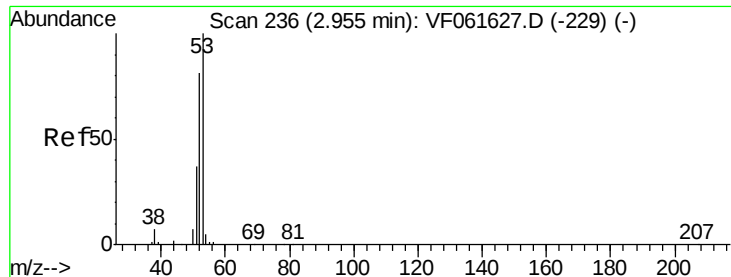
MMDadoda
2/18/2019 12:11:35 AM



#14
Allyl chloride
Concen: 21.986 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
41	100		
39	74.2	61.6	92.4
76	39.2	30.3	45.5





#15

Acrylonitrile

Concen: 99.423 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

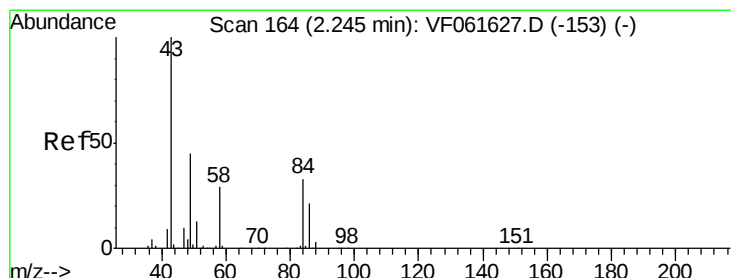
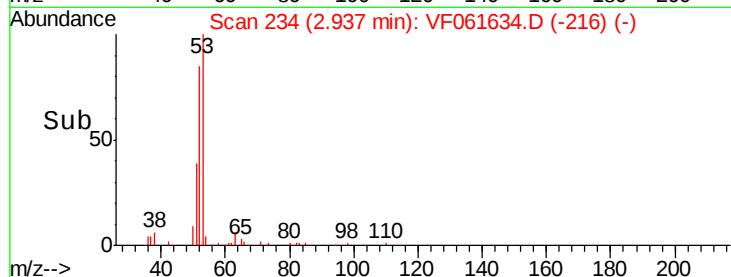
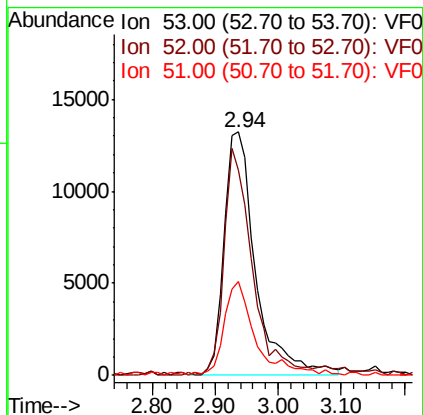
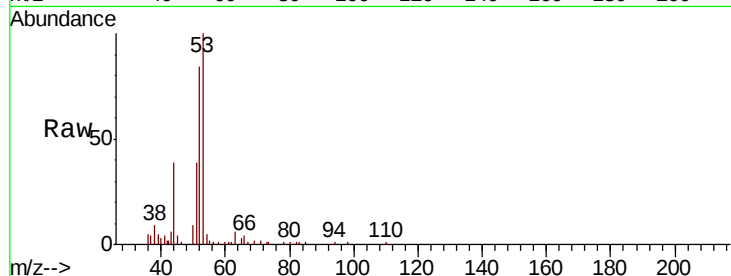
ClientSampleId :

VF0214SBS01

Tgt Ion:	53	Resp:	46123
Ion Ratio	Lower	Upper	
53	100		
52	84.1	64.6	97.0
51	38.8	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 112.709 ug/l

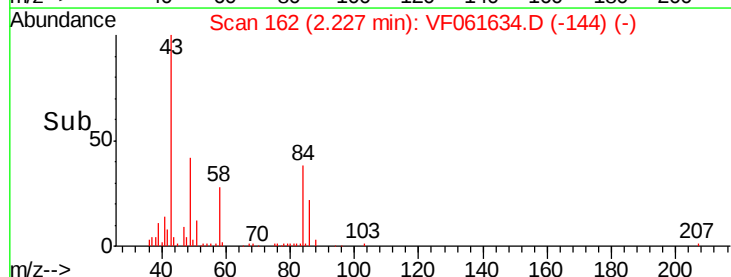
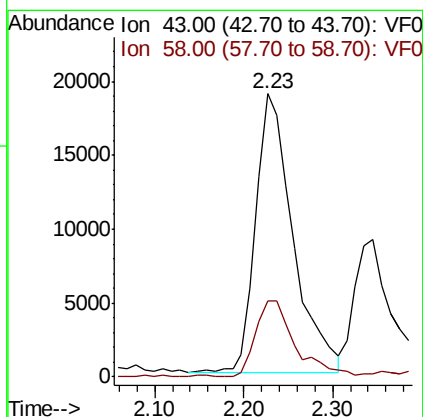
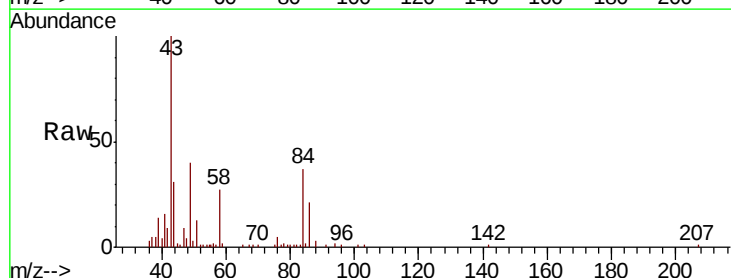
RT: 2.23 min Scan# 162

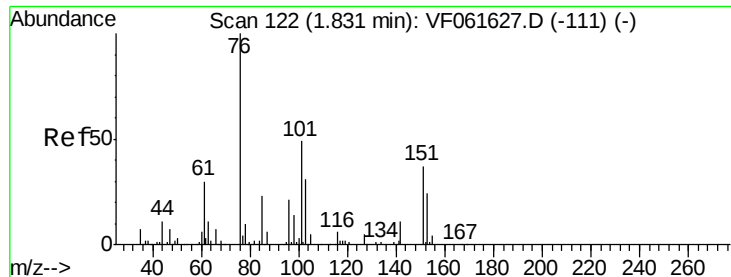
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	43	Resp:	54649
Ion Ratio	Lower	Upper	
43	100		
58	26.7	22.9	34.3





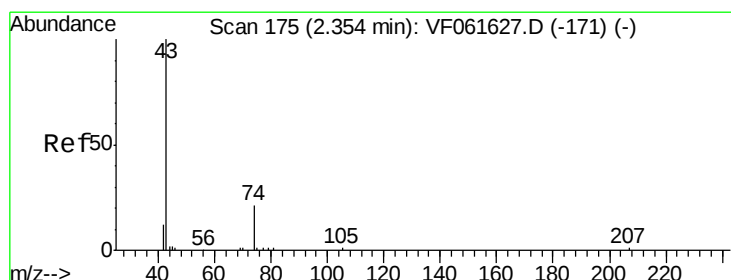
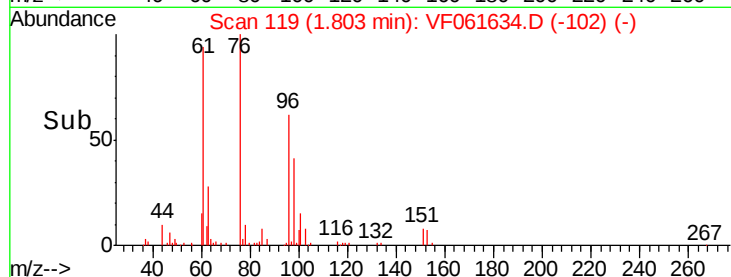
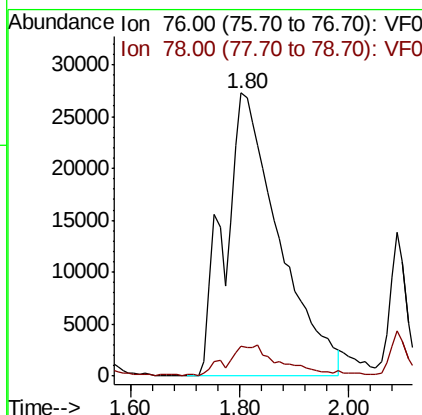
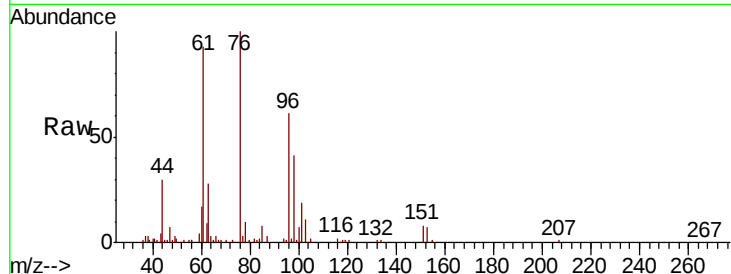
#17
Carbon Disulfide
Concen: 22.654 ug/l m
RT: 1.80 min Scan# 119
Delta R.T. -0.03 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion: 76 Resp: 188044
Ion Ratio Lower Upper
76 100
78 10.5 7.9 11.9

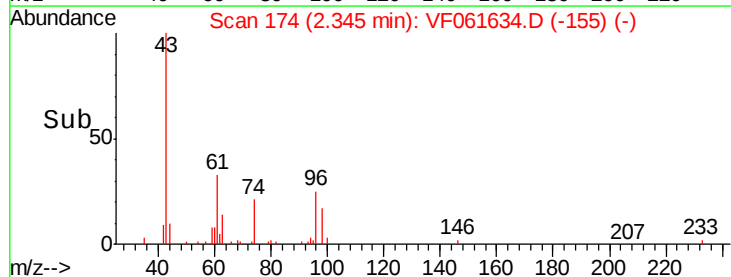
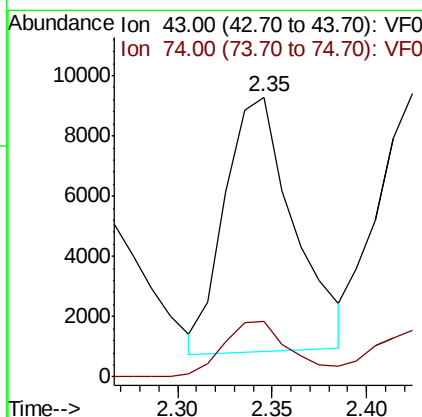
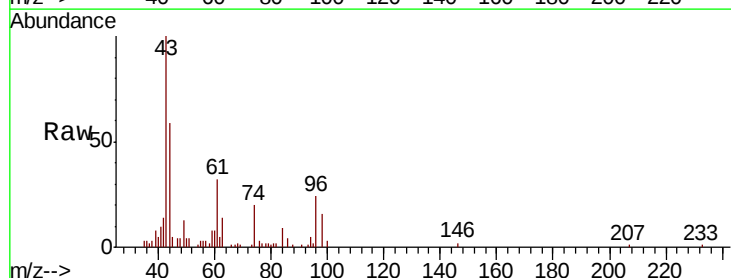
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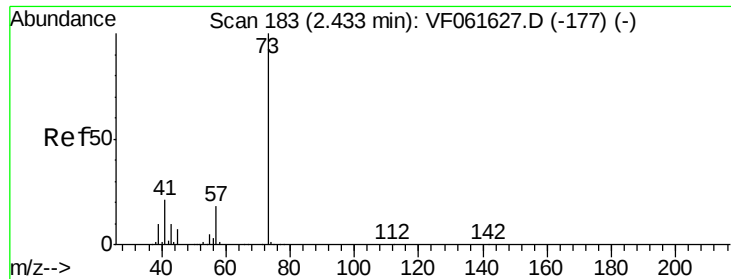
MMDadoda
2/18/2019 12:11:35 AM



#18
Methyl Acetate
Concen: 19.551 ug/l
RT: 2.35 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion: 43 Resp: 21355
Ion Ratio Lower Upper
43 100
74 19.8 14.6 21.8





#19

Methyl tert-butyl Ether

Concen: 22.296 ug/l

RT: 2.42 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 73 Resp: 100627

Ion Ratio Lower Upper

73 100

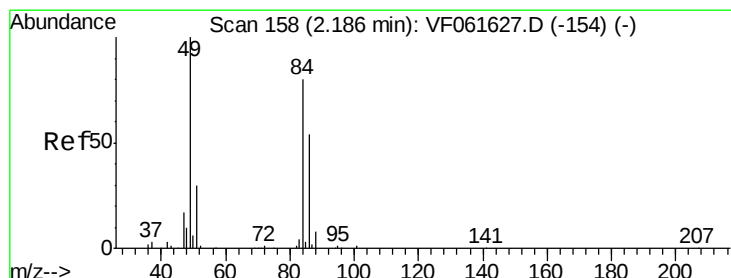
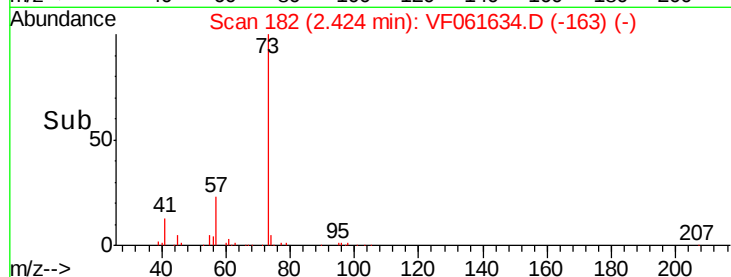
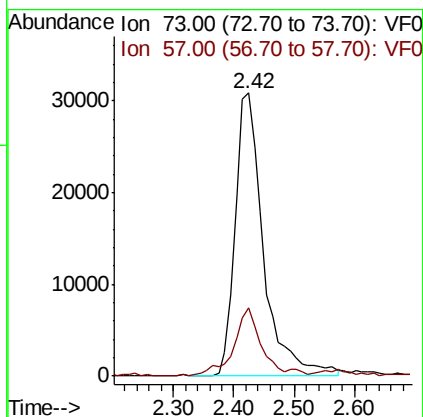
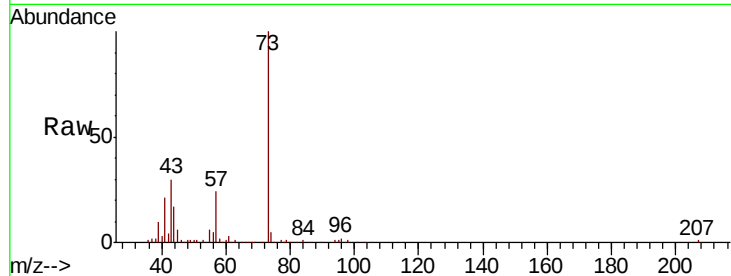
57 24.0 15.8 23.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 25.799 ug/l m

RT: 2.17 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion: 84 Resp: 70199

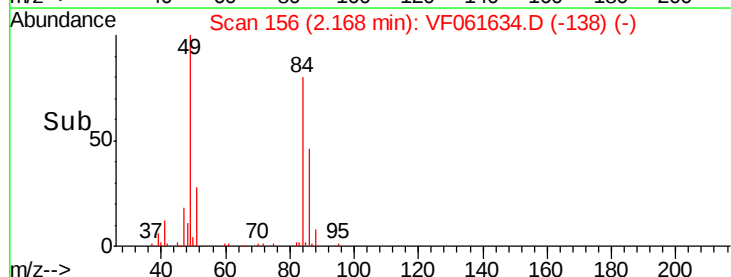
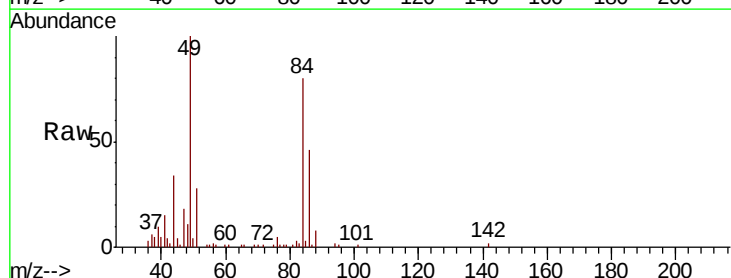
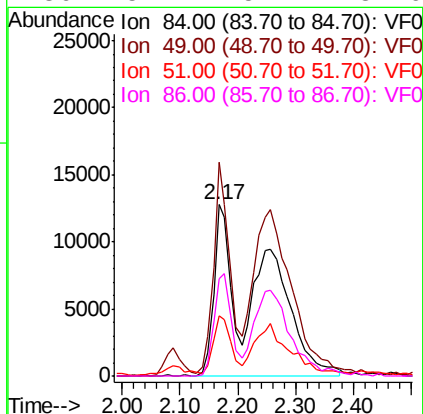
Ion Ratio Lower Upper

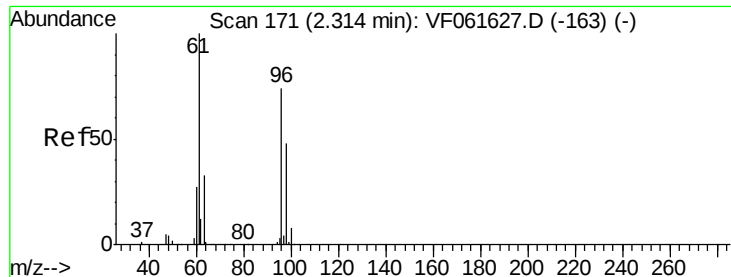
84 100

49 124.8 101.8 152.8

51 35.5 31.1 46.7

86 57.1 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 18.892 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

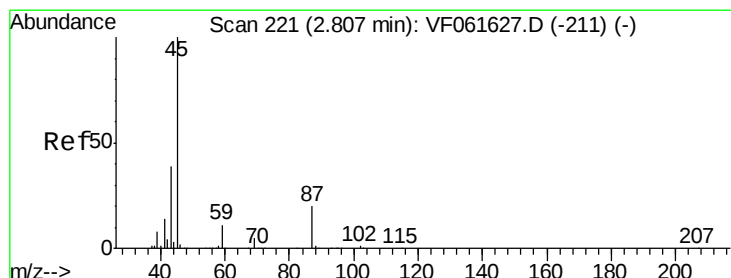
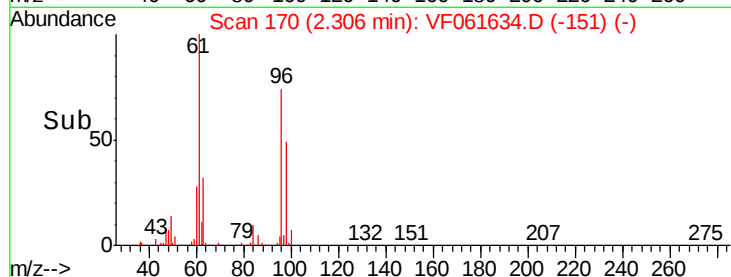
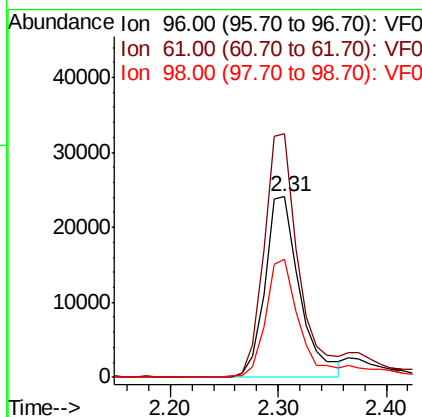
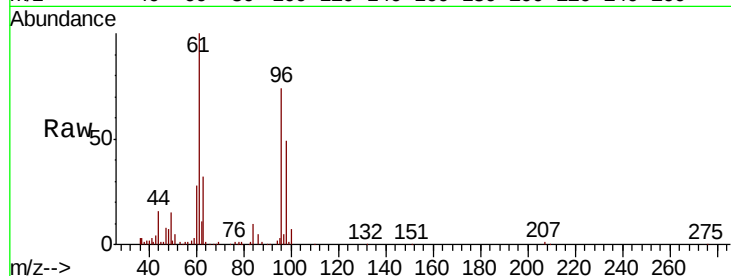
ClientSampleId :

VF0214SBS01

Tgt Ion:	96	Resp:	54234
Ion	Ratio	Lower	Upper
96	100		
61	134.6	108.2	162.4
98	65.6	52.2	78.2

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#22

Diisopropyl ether

Concen: 21.890 ug/l

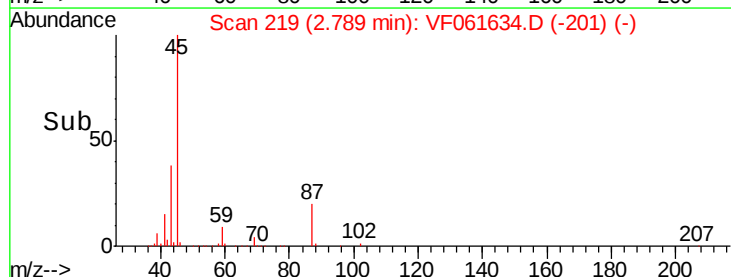
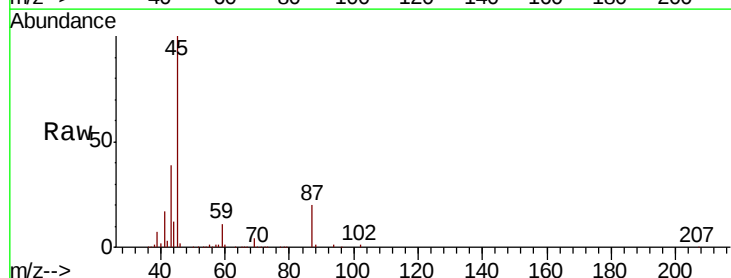
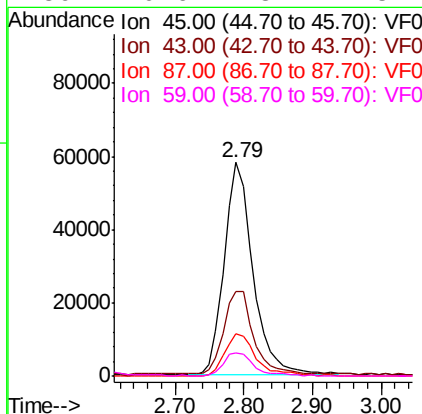
RT: 2.79 min Scan# 219

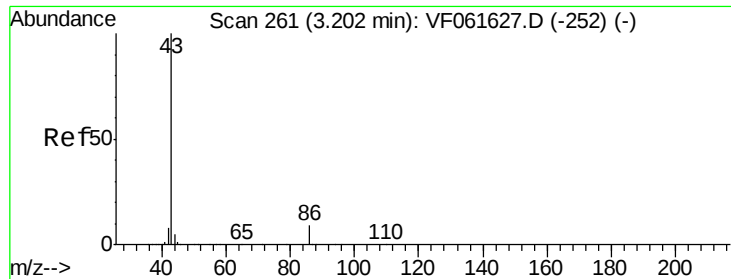
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	45	Resp:	170273
Ion	Ratio	Lower	Upper
45	100		
43	39.5	31.4	47.2
87	20.1	16.3	24.5
59	10.6	8.7	13.1





#23

Vinyl Acetate

Concen: 103.313 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 43 Resp: 392511

Ion Ratio Lower Upper

43 100

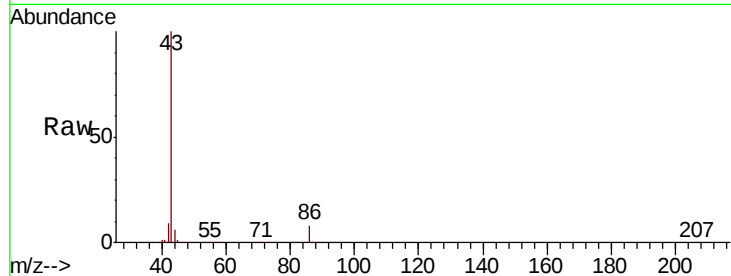
86 8.1 7.5 11.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

150000

100000

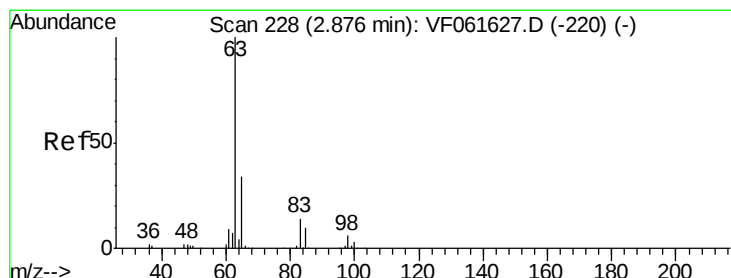
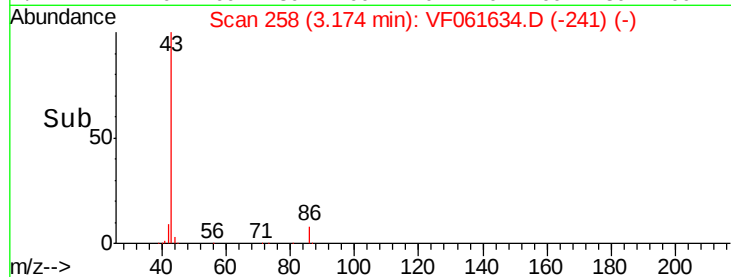
50000

0

3.17

3.00 3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 21.555 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

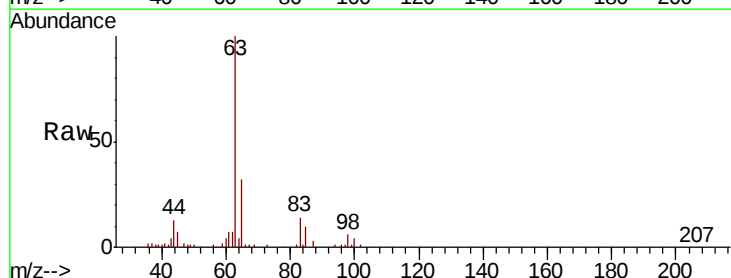
Tgt Ion: 63 Resp: 101464

Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.3

100 3.7 1.8 5.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

50000

40000

30000

20000

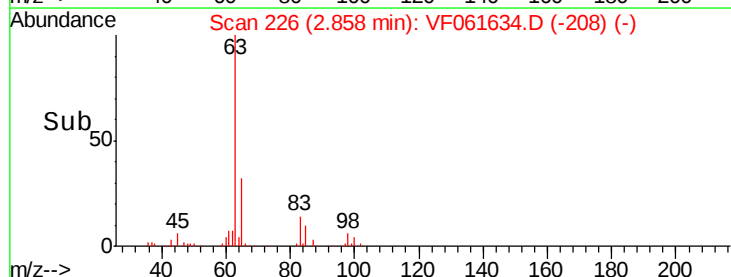
10000

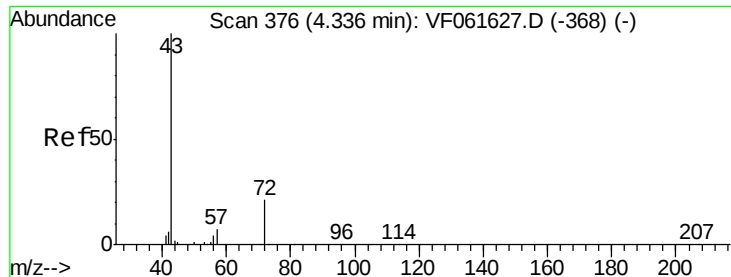
0

2.86

2.70 2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 104.544 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 43 Resp: 110723

Ion Ratio Lower Upper

43 100

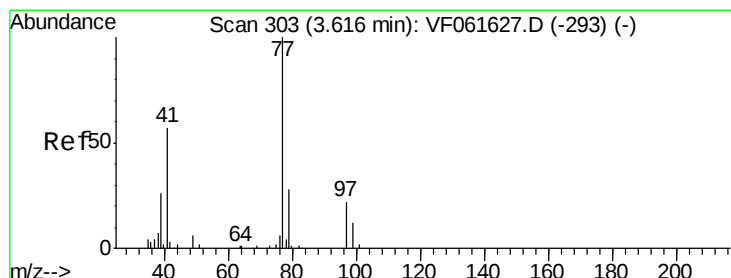
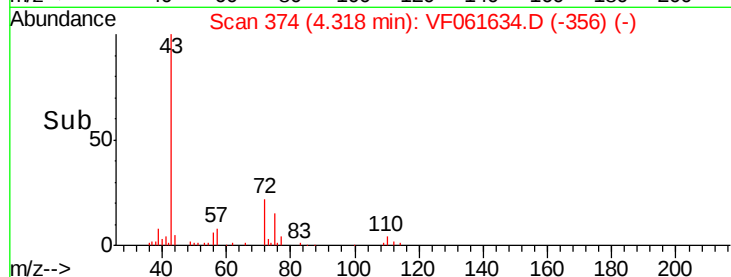
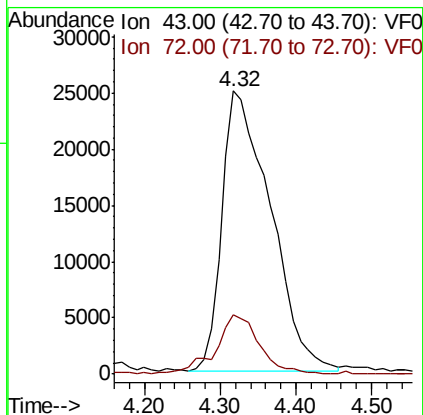
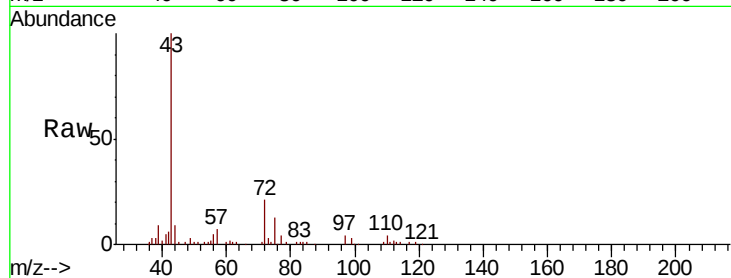
72 21.1 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/18/2019 12:11:35 AM



#26

2,2-Dichloropropane

Concen: 22.247 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061634.D

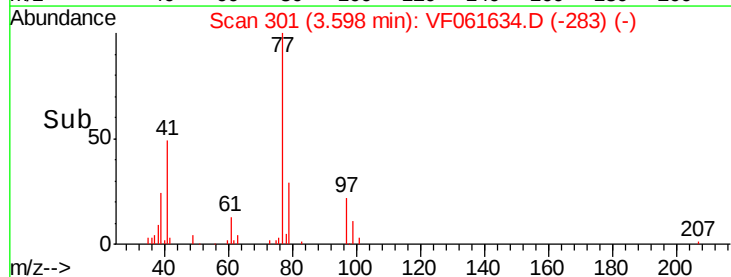
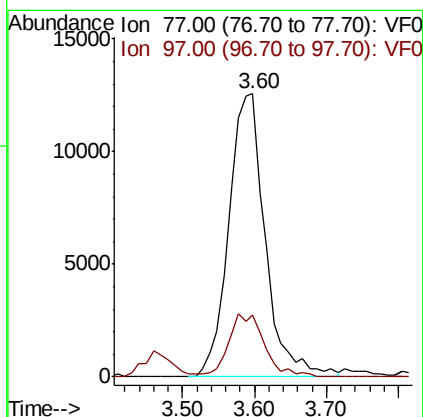
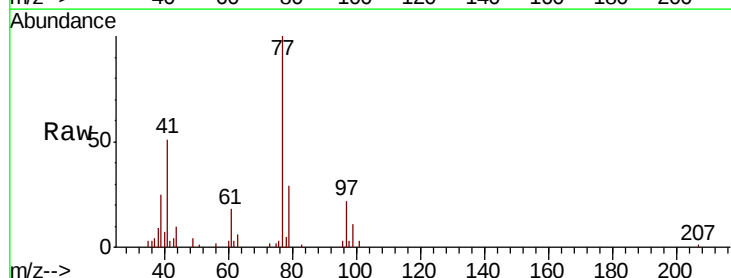
Acq: 14 Feb 2019 12:13

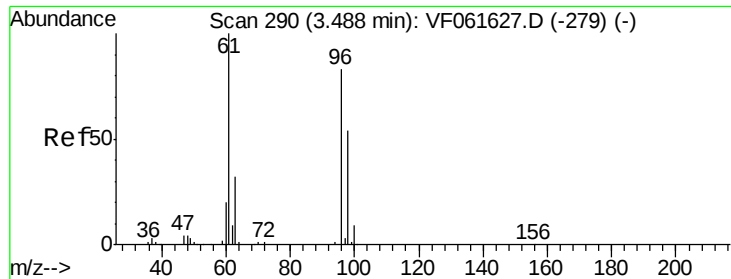
Tgt Ion: 77 Resp: 44359

Ion Ratio Lower Upper

77 100

97 22.0 11.7 35.0





#27

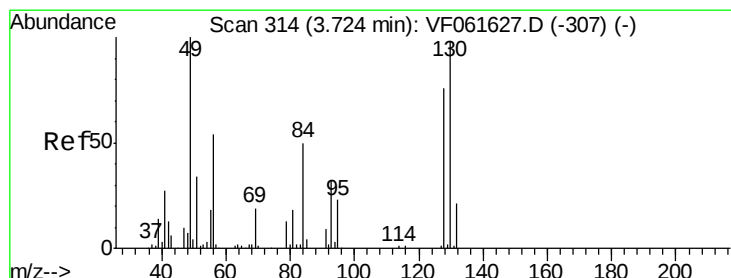
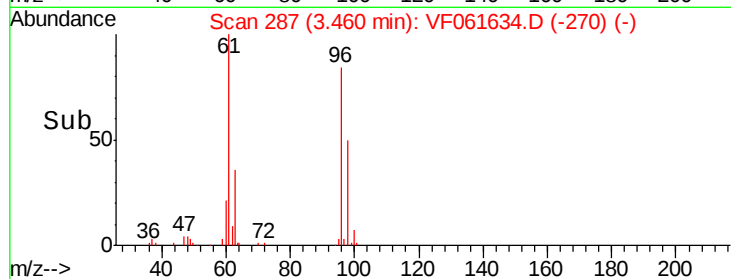
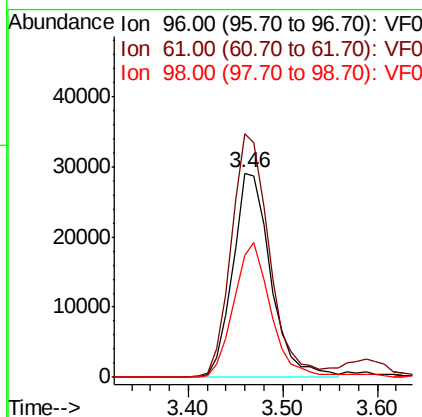
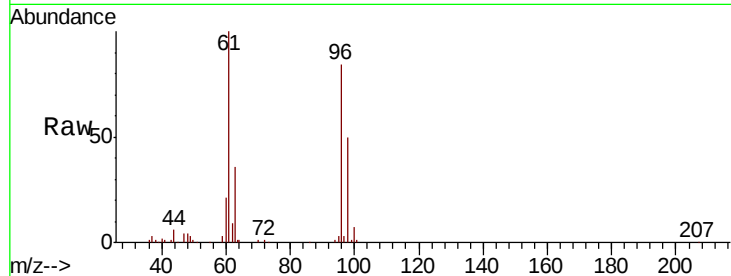
cis-1,2-Dichloroethene
 Concen: 21.511 ug/l
 RT: 3.46 min Scan# 287
 Delta R.T. -0.03 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	81053		
61	119.1	0.0	241.6	
98	59.9	0.0	130.2	

Manual Integrations
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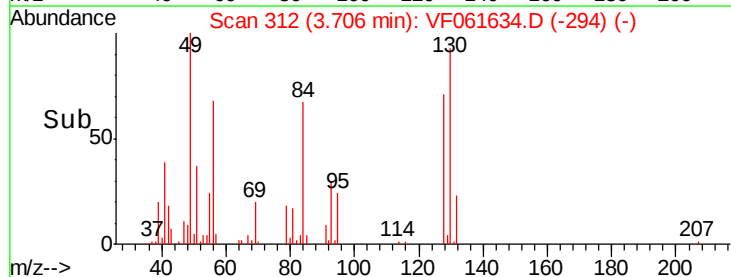
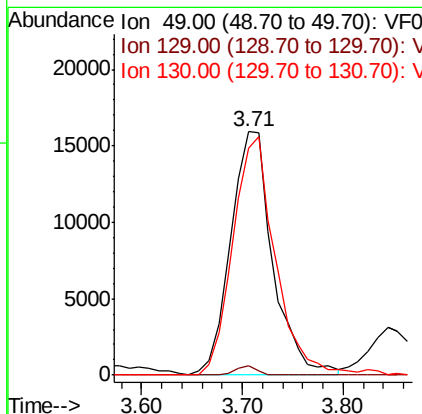
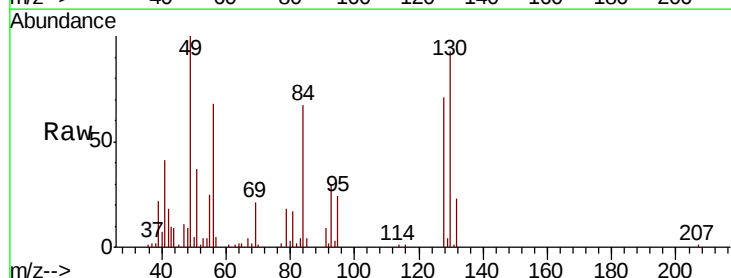
MMDadoda
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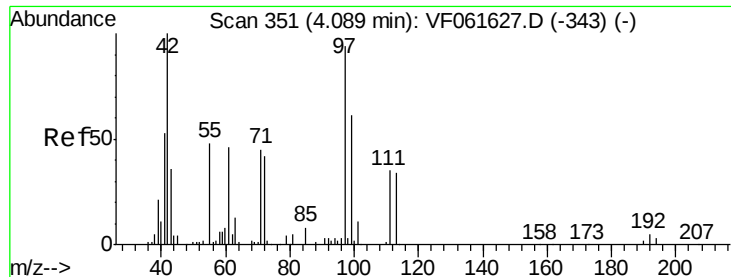


#28

Bromochloromethane
 Concen: 20.536 ug/l
 RT: 3.71 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	46382		
129	3.6	0.0	3.4#	
130	93.0	77.7	116.5	





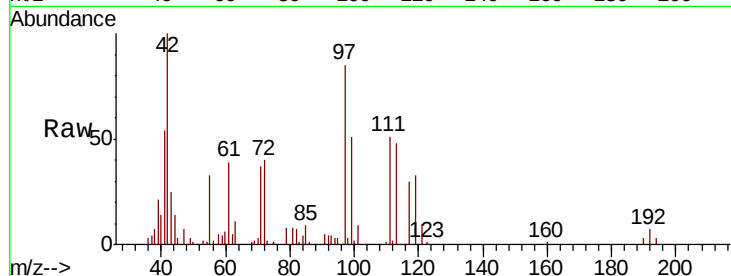
#29
Tetrahydrofuran
Concen: 94.384 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.03 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

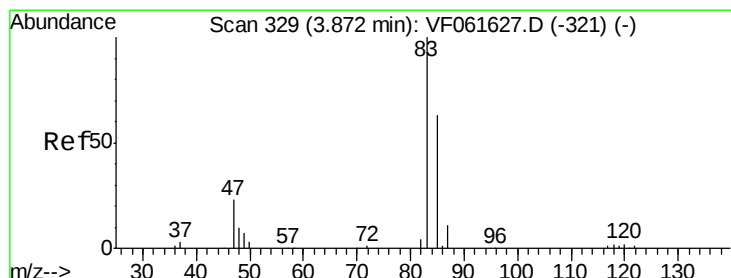
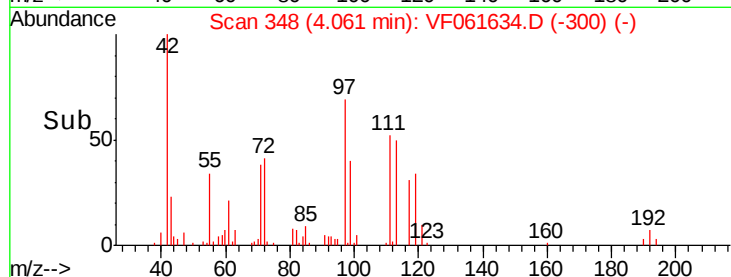
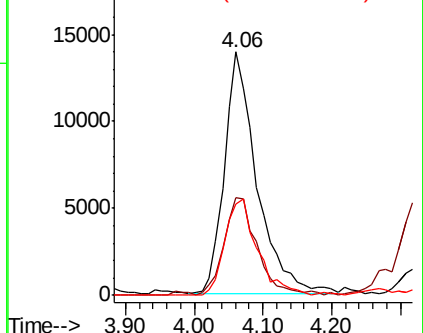
Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.5	35.2	52.8
71	39.8	32.9	49.3

Manual Integrations
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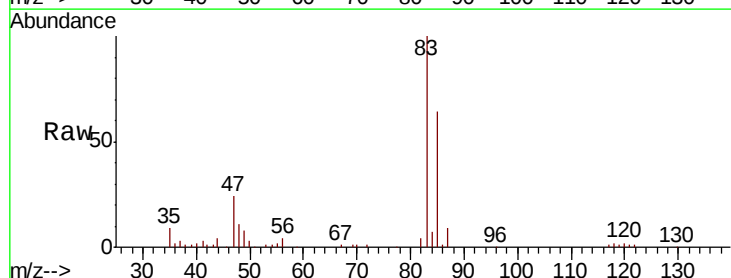


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

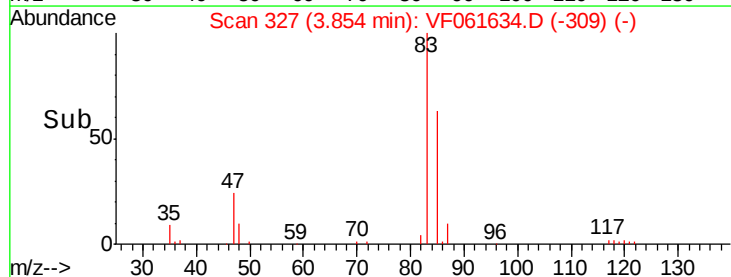
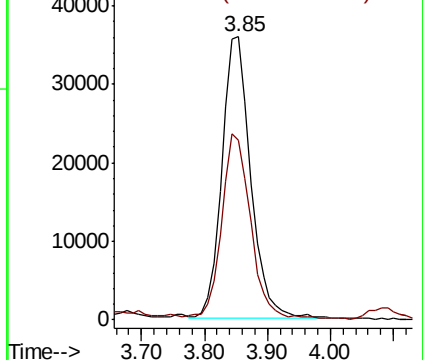


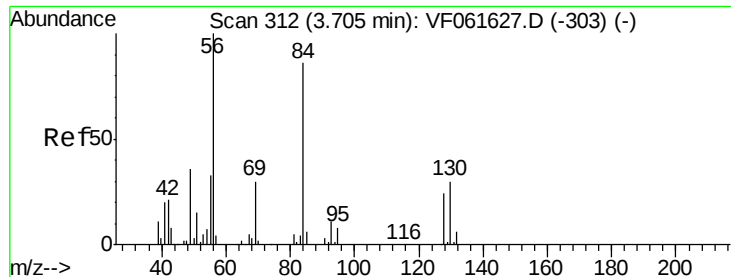
#30
Chloroform
Concen: 21.301 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.1	76.7



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 23.121 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.03 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

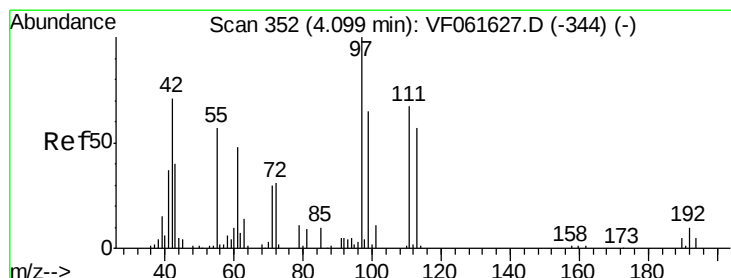
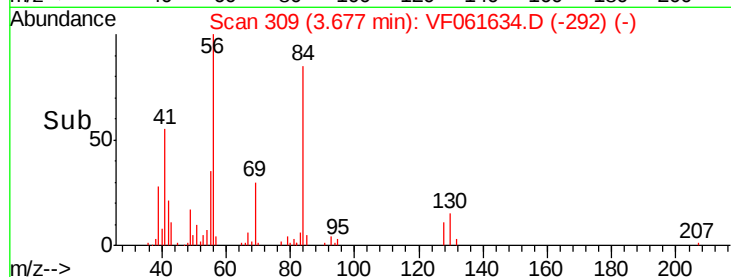
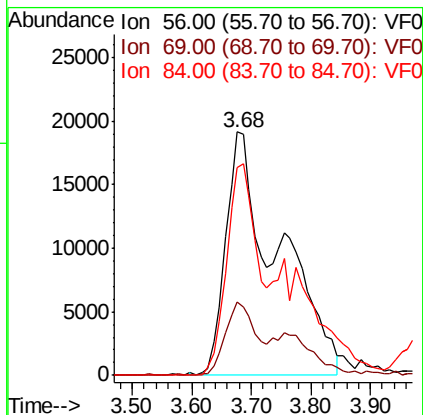
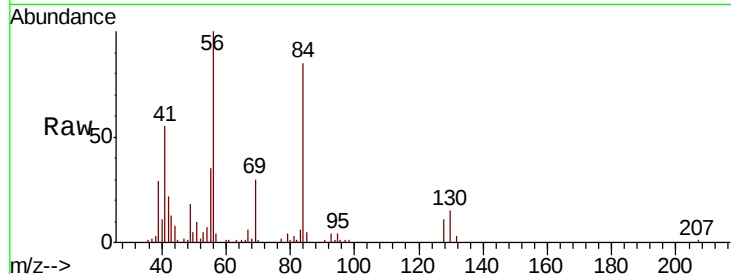
ClientSampleId :

VF0214SBS01

Tgt Ion:	56	Resp:	117823
Ion Ratio		Lower	Upper
56	100		
69	30.1	23.8	35.8
84	85.2	68.6	103.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.568 ug/l

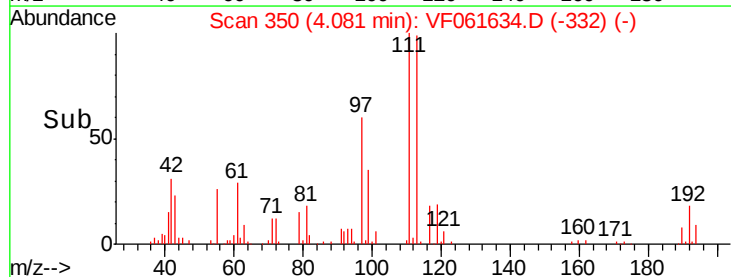
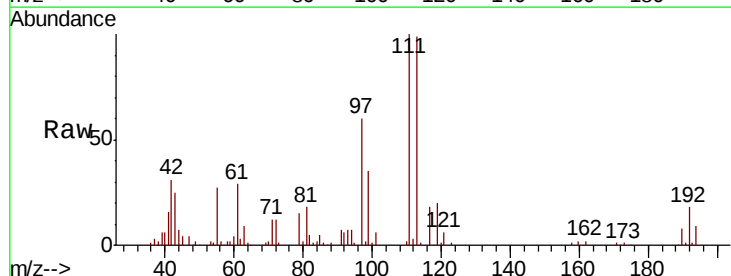
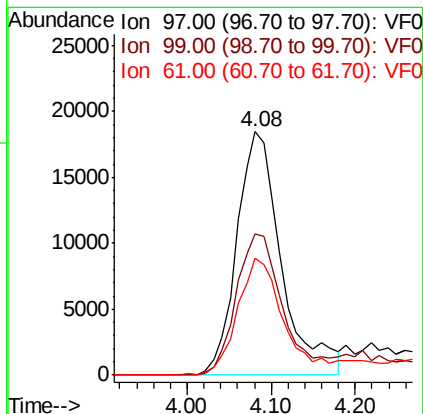
RT: 4.08 min Scan# 350

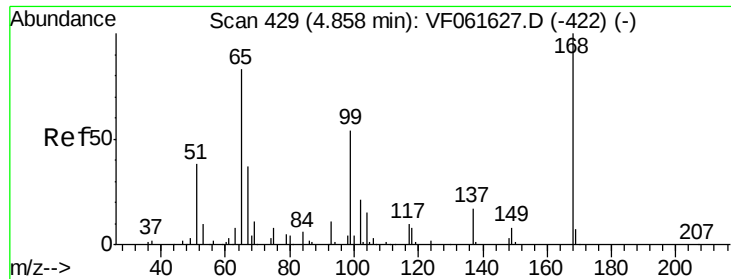
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	97	Resp:	68621
Ion Ratio		Lower	Upper
97	100		
99	58.3	52.2	78.2
61	47.9	39.2	58.8





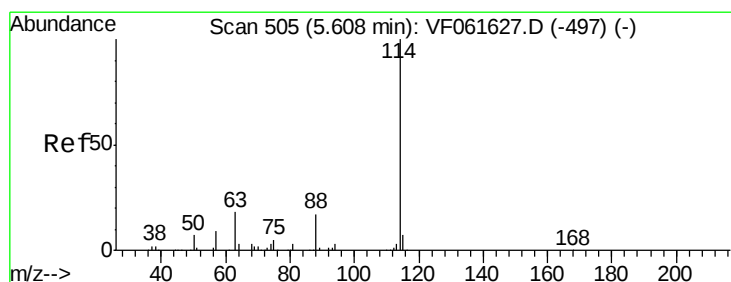
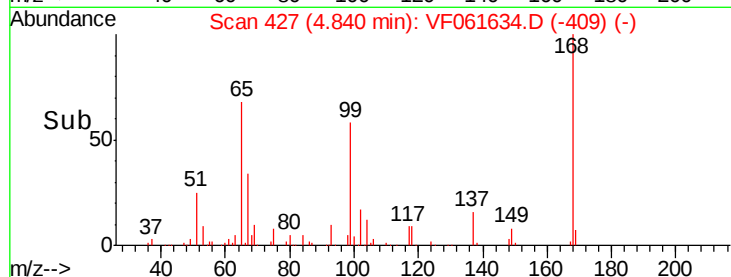
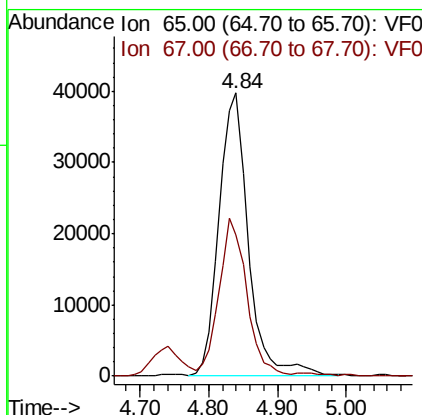
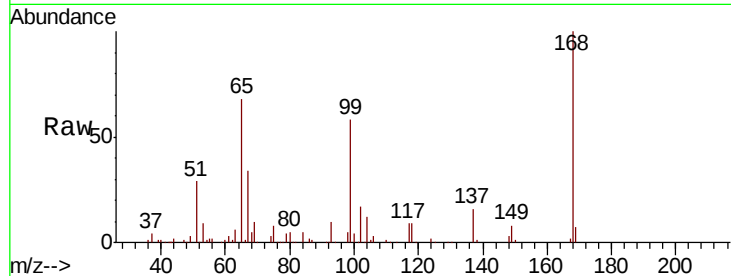
#33
 1,2-Dichloroethane-d4
 Concen: 51.536 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.02 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion: 65 Resp: 116465
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 104.0

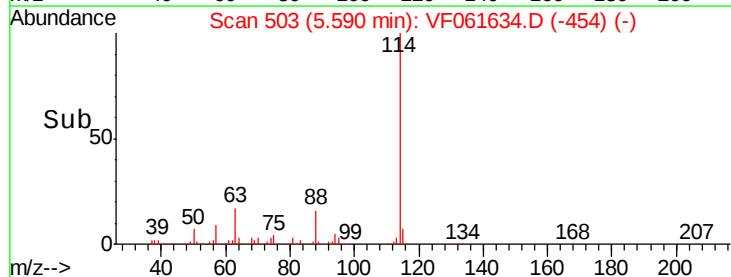
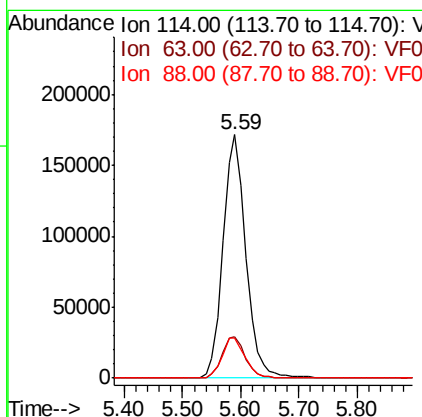
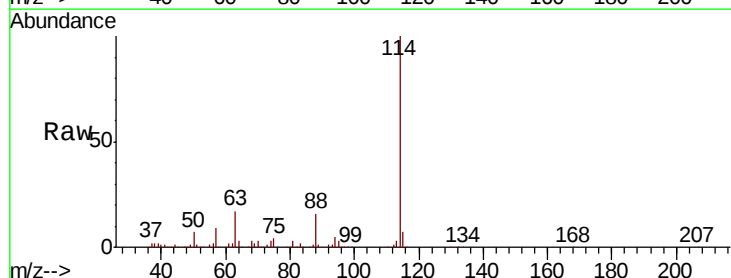
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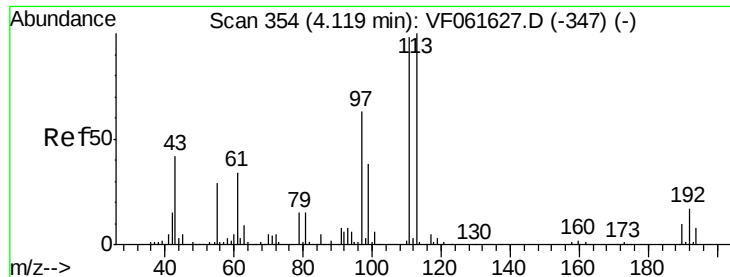
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion: 114 Resp: 467518
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 36.6
 88 16.3 0.0 34.4





#35

Dibromofluoromethane

Concen: 49.514 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

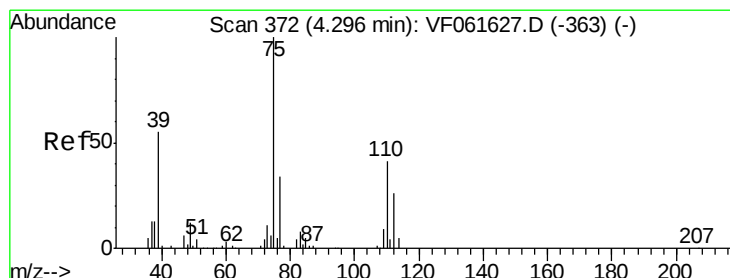
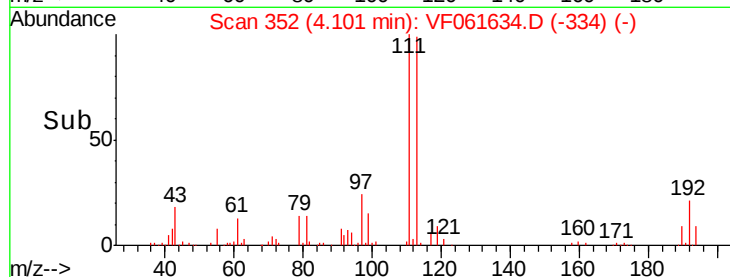
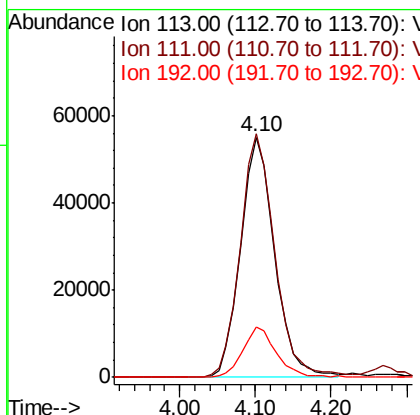
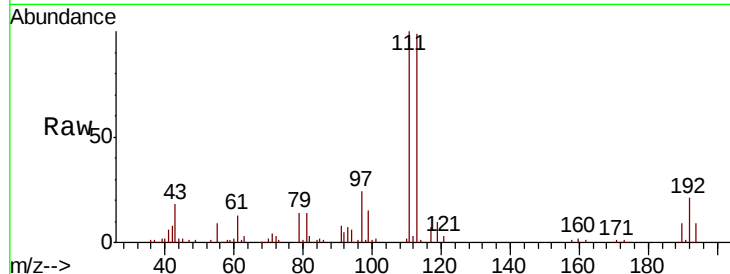
ClientSampleId :

VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	171905		
111	101.4	78.8	118.2	
192	21.1	13.4	20.0	

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 20.665 ug/l

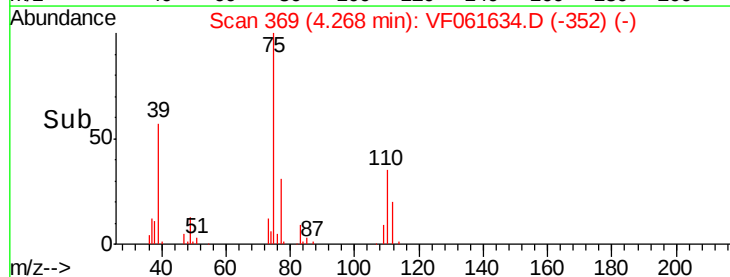
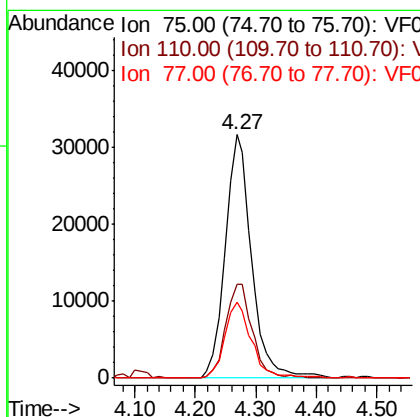
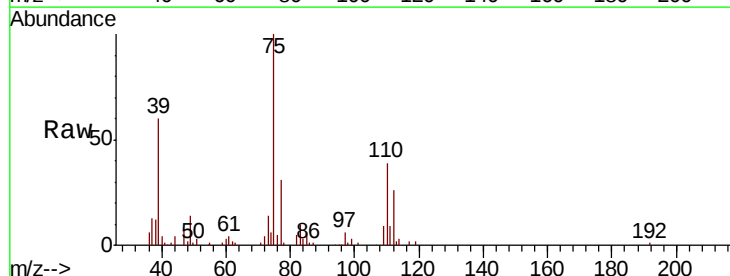
RT: 4.27 min Scan# 369

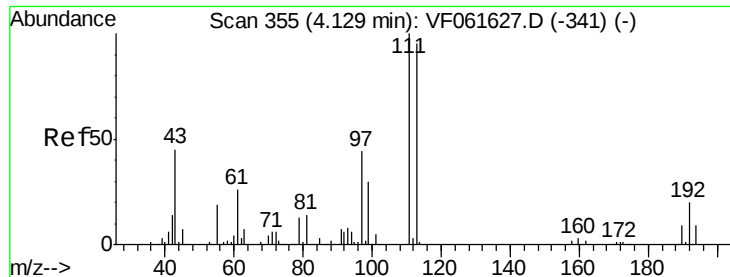
Delta R.T. -0.03 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	95708		
110	38.5	20.5	61.6	
77	31.2	27.0	40.4	





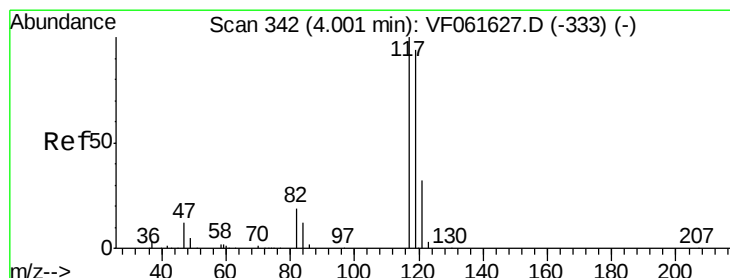
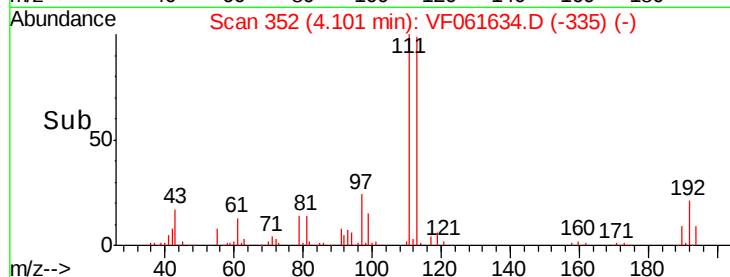
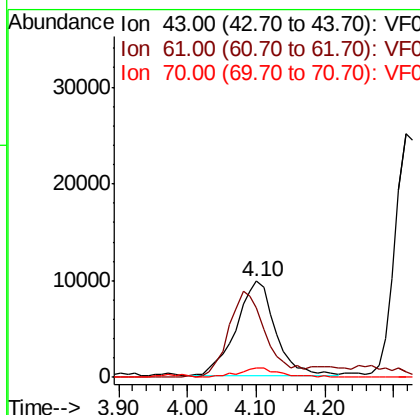
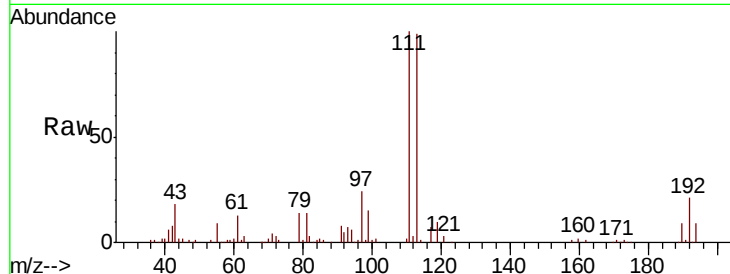
#37
Ethyl Acetate
Concen: 17.728 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	72.5	45.7	68.5#
70	9.3	8.5	12.7

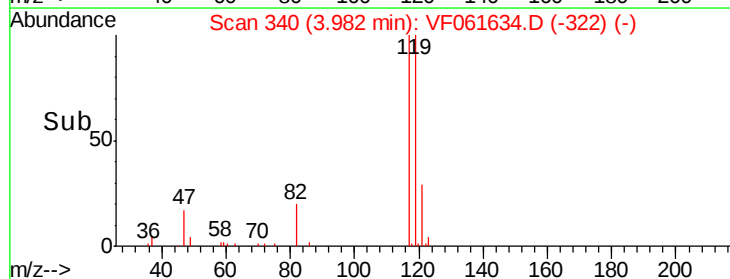
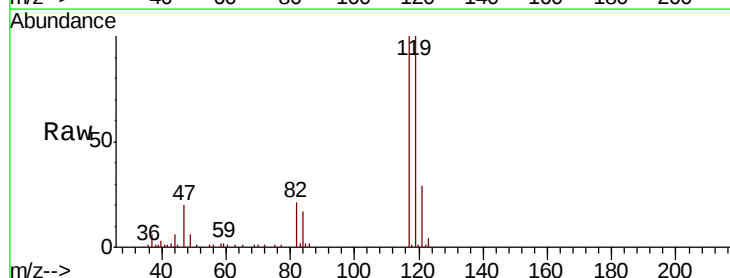
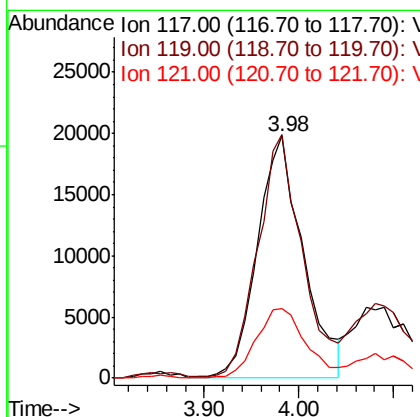
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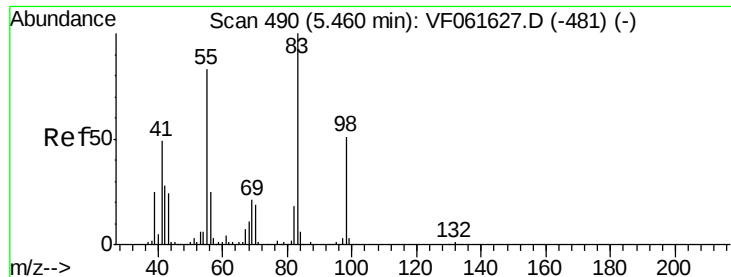
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#38
Carbon Tetrachloride
Concen: 20.911 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.5	75.6	113.4
121	28.7	25.2	37.8





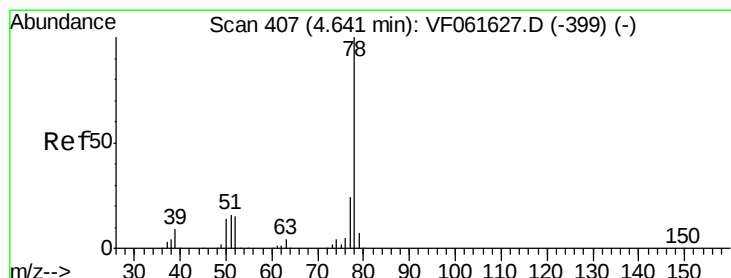
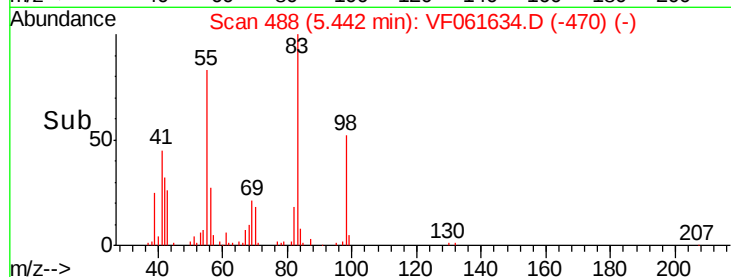
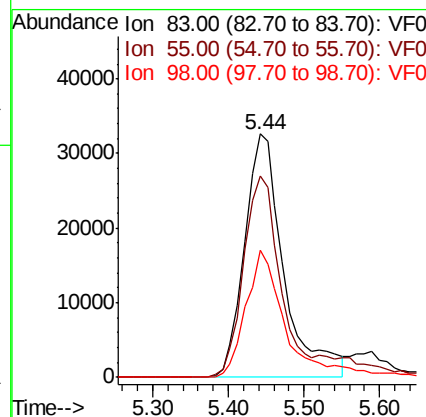
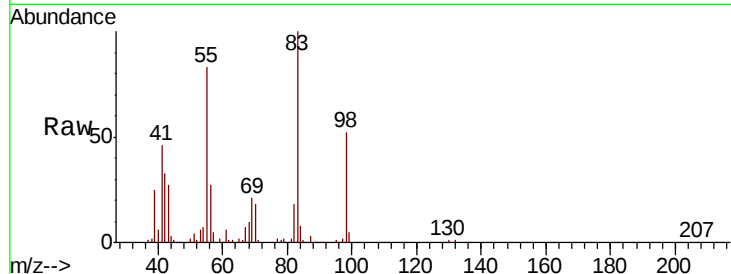
#39
Methylcyclohexane
Concen: 21.478 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.7	66.6	99.8
98	52.0	40.4	60.6

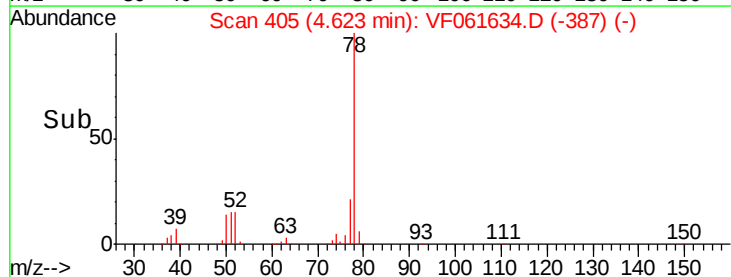
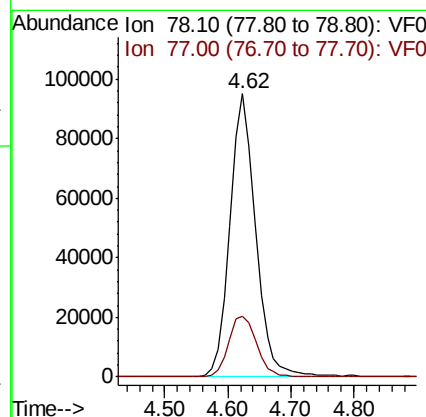
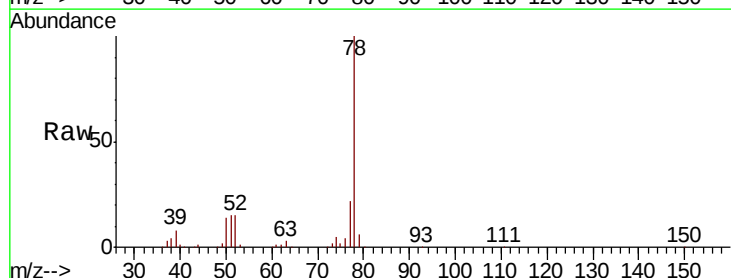
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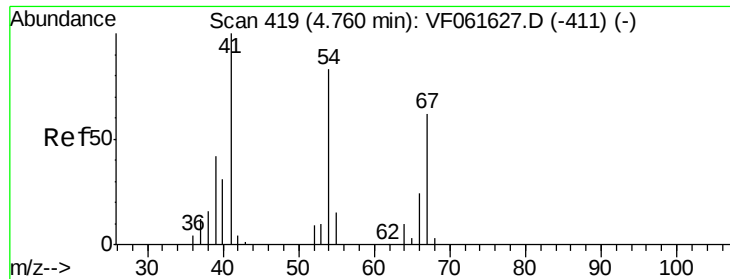
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#40
Benzene
Concen: 22.178 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	19.0	28.6





#41

Methacrylonitrile

Concen: 19.391 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 41 Resp: 21332

Ion Ratio Lower Upper

41 100

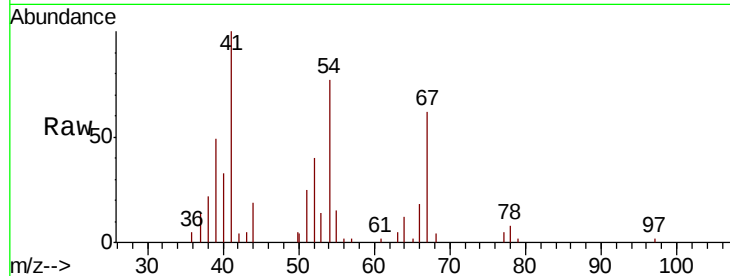
39 49.5 45.3 67.9

67 61.8 49.3 73.9

52 40.1 32.6 49.0

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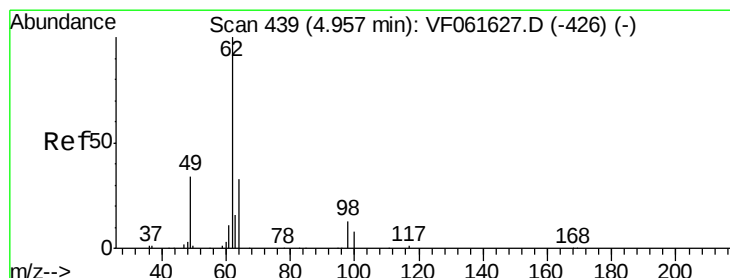
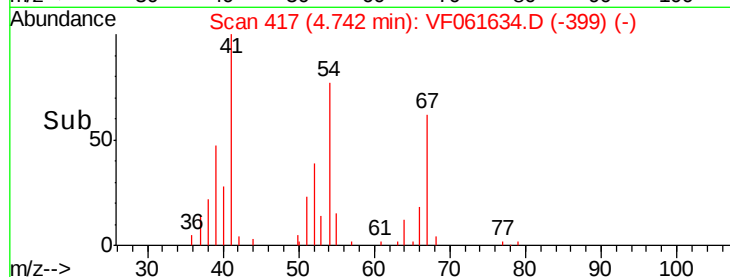
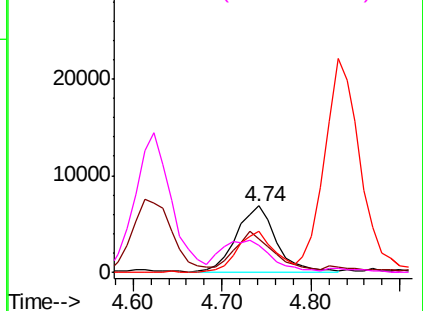


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 19.454 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.03 min

Lab File: VF061634.D

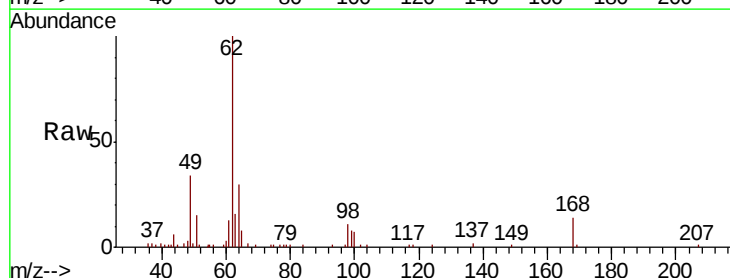
Acq: 14 Feb 2019 12:13

Tgt Ion: 62 Resp: 56372

Ion Ratio Lower Upper

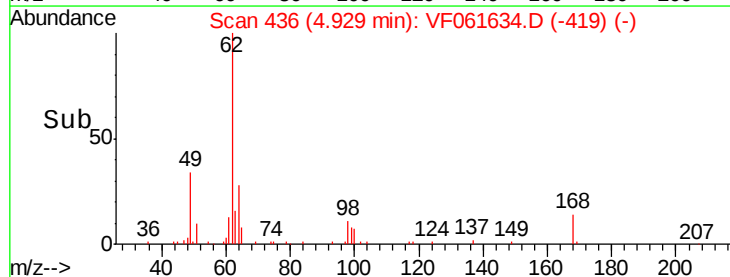
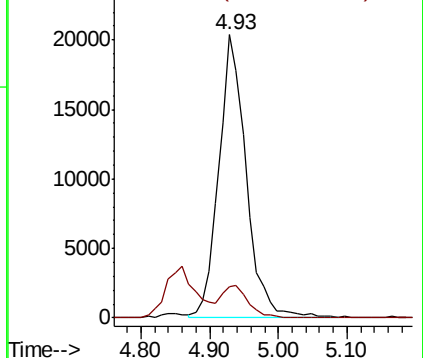
62 100

98 10.8 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 17.917 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

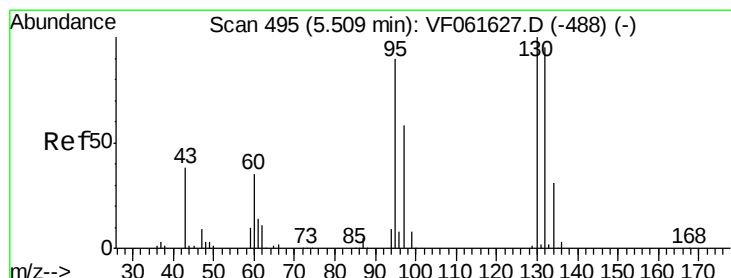
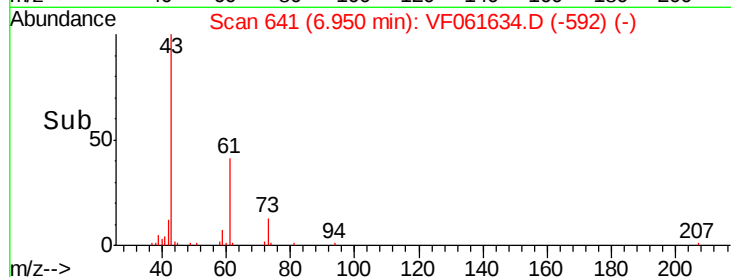
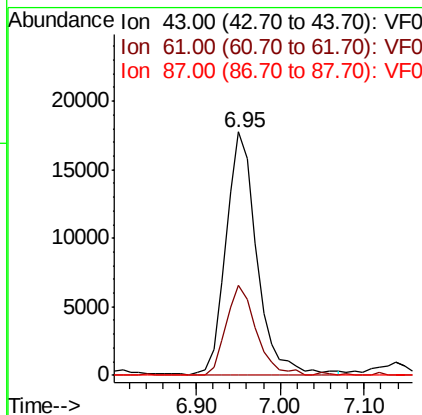
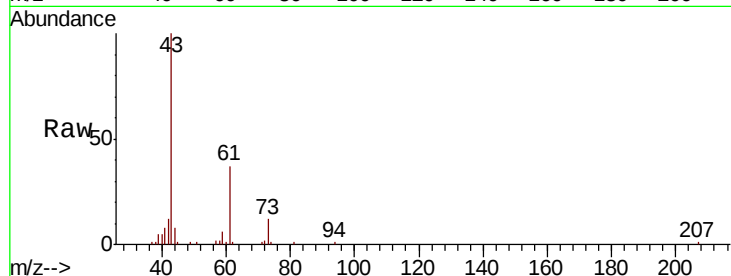
ClientSampleId :

VF0214SBS01

Tgt Ion:	43	Resp:	45622
Ion Ratio	Lower	Upper	
43	100		
61	37.0	25.8	38.6
87	0.0	0.4	0.6

Manual Integrations
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#44

Trichloroethene

Concen: 21.914 ug/l

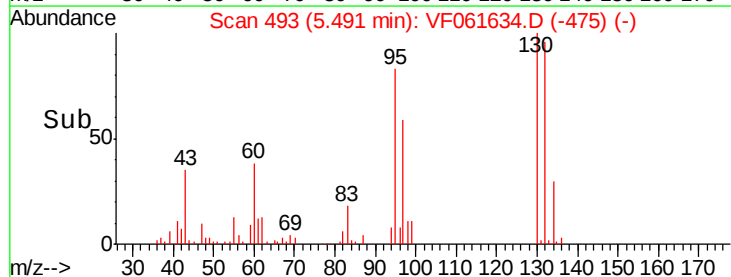
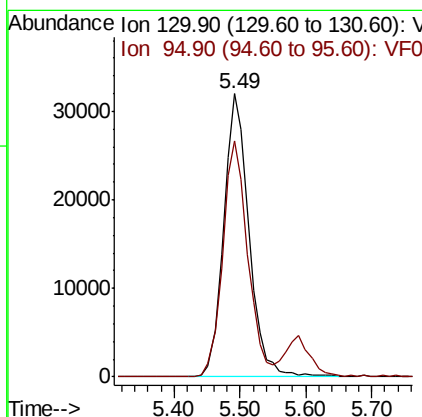
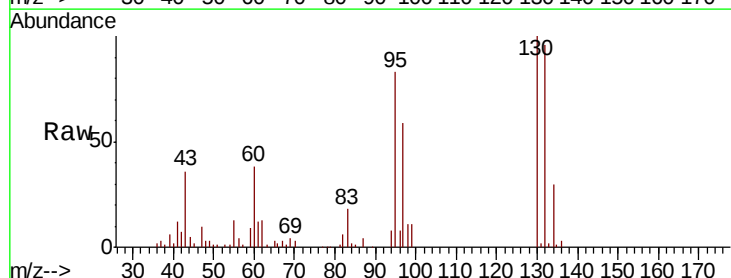
RT: 5.49 min Scan# 493

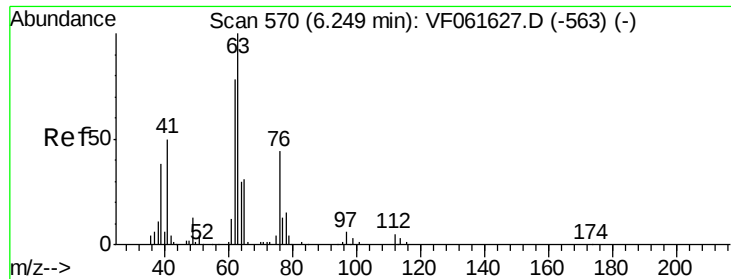
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	130	Resp:	85845
Ion Ratio	Lower	Upper	
130	100		
95	83.4	0.0	179.4





#45

1,2-Dichloropropane

Concen: 21.167 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 63 Resp: 61982

Ion Ratio Lower Upper

63 100

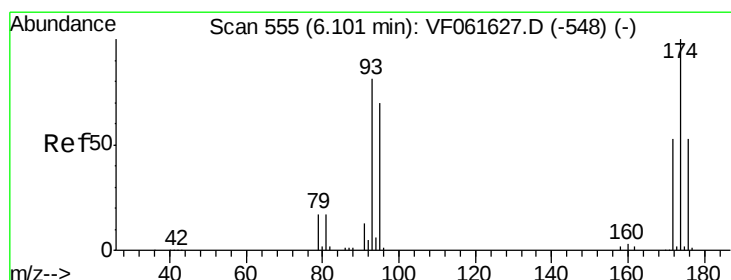
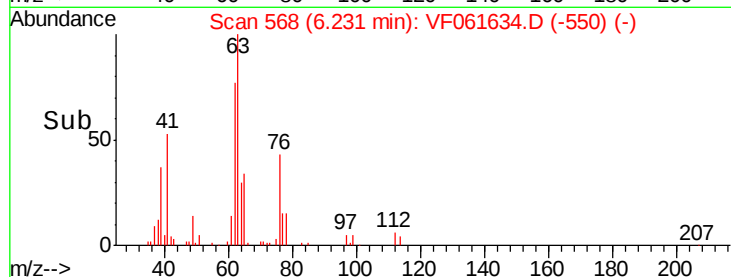
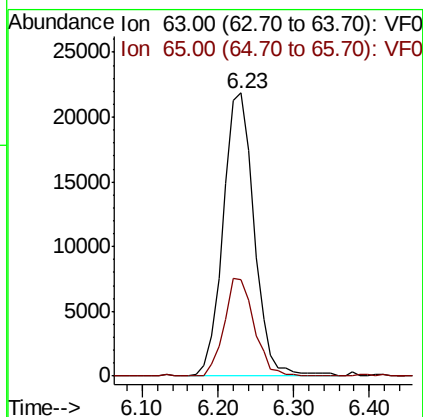
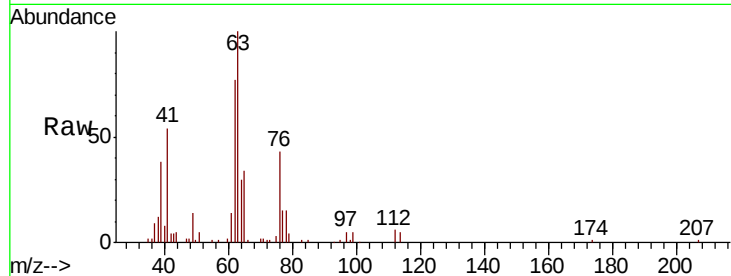
65 34.2 24.9 37.3

Manual Integrations

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MMDadoda

2/18/2019 12:11:35 AM



#46

Dibromomethane

Concen: 20.324 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

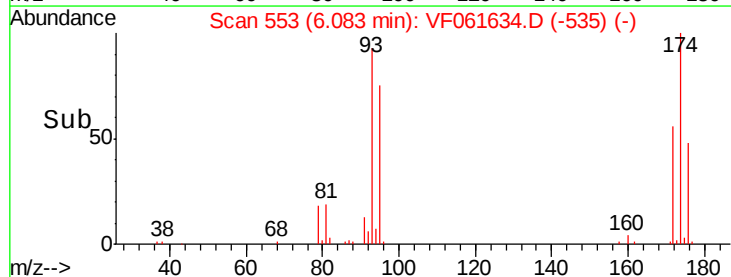
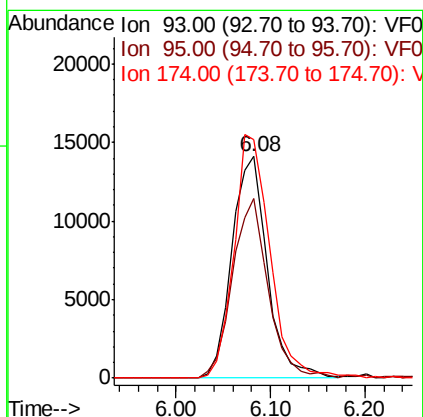
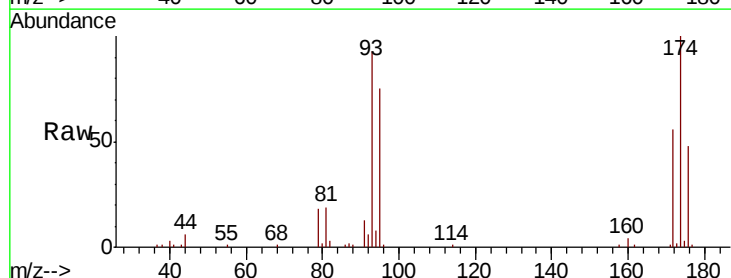
Tgt Ion: 93 Resp: 36642

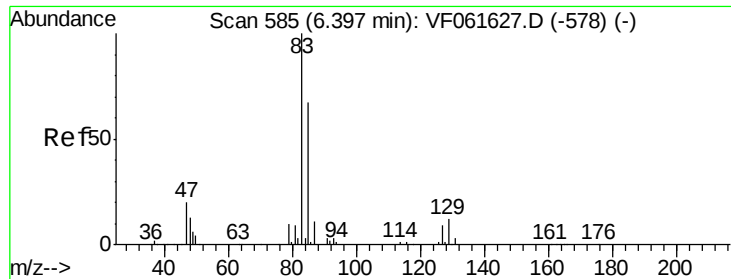
Ion Ratio Lower Upper

93 100

95 80.9 69.0 103.6

174 107.4 99.3 148.9





#47

Bromodichloromethane

Concen: 20.416 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

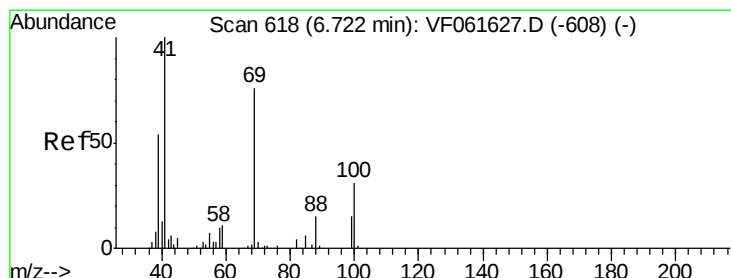
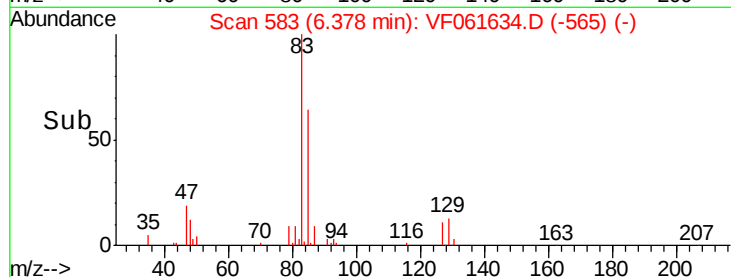
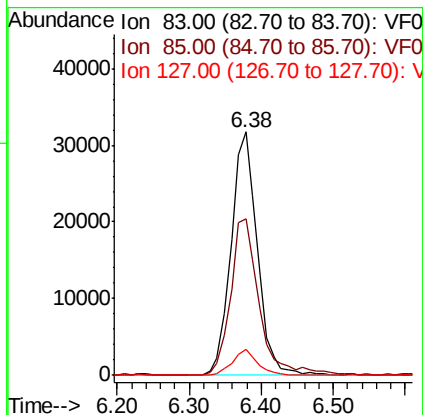
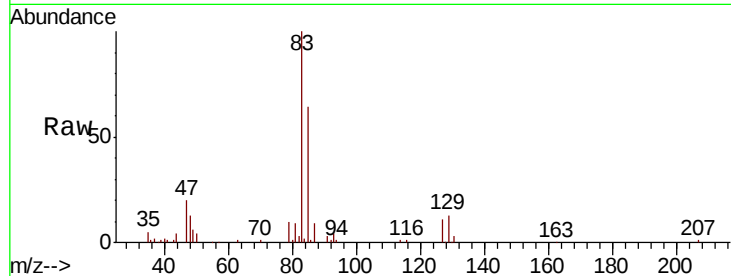
ClientSampleId :

VF0214SBS01

Tgt Ion:	83	Resp:	80604
Ion	Ratio	Lower	Upper
83	100		
85	64.3	53.4	80.2
127	11.3	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.453 ug/l

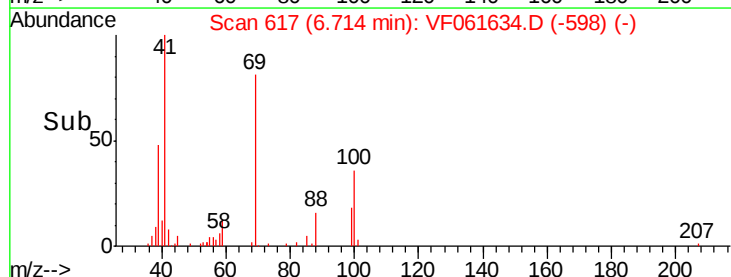
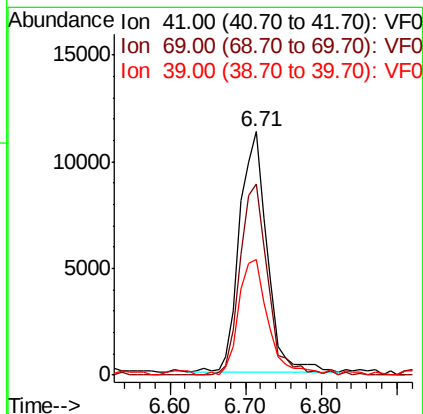
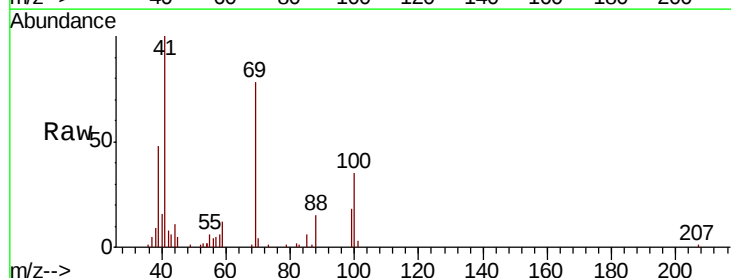
RT: 6.71 min Scan# 617

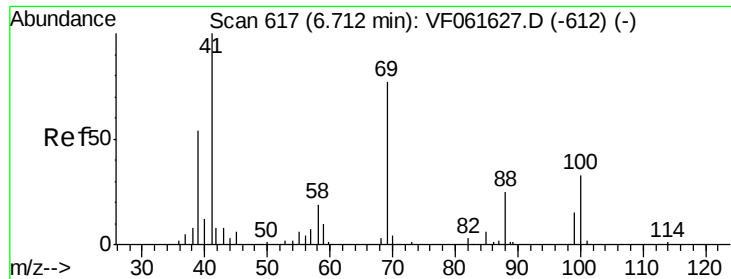
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	41	Resp:	28276
Ion	Ratio	Lower	Upper
41	100		
69	78.5	60.4	90.6
39	47.6	43.7	65.5





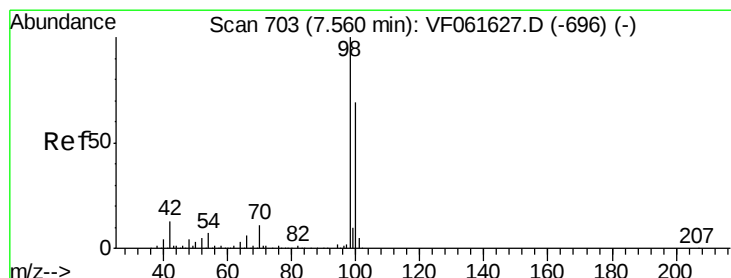
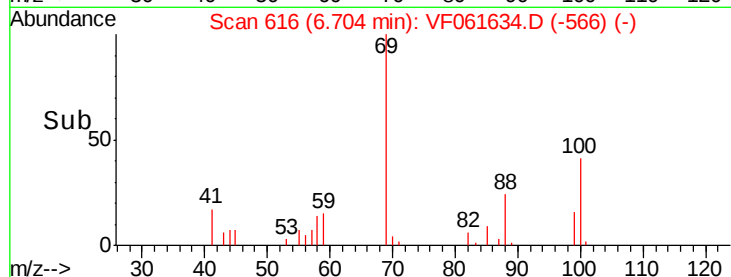
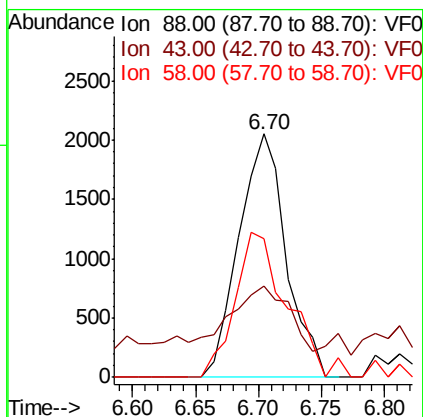
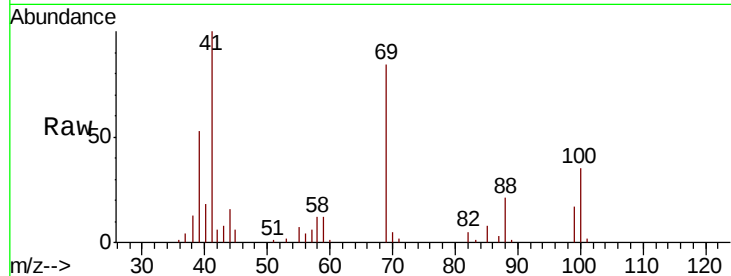
#49
1,4-Dioxane
Concen: 370.506 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	37.3	32.3	48.5
58	57.1	59.4	89.2#

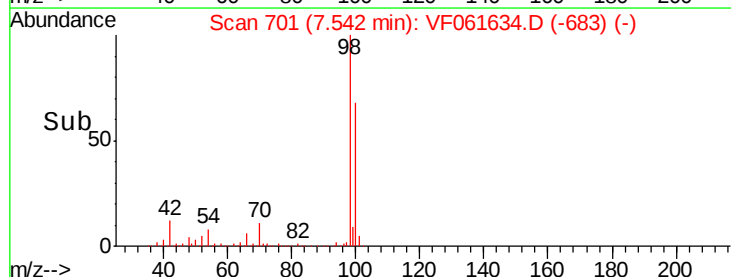
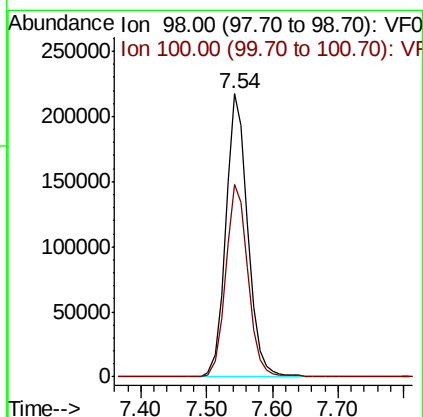
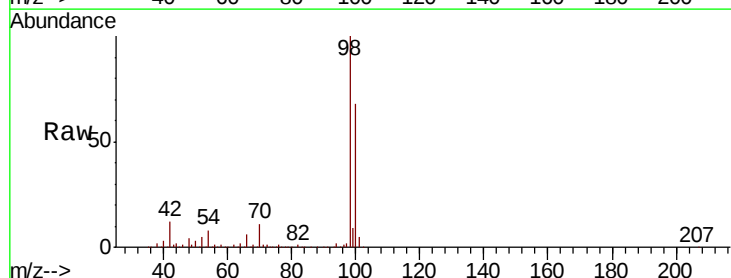
Manual Integrations
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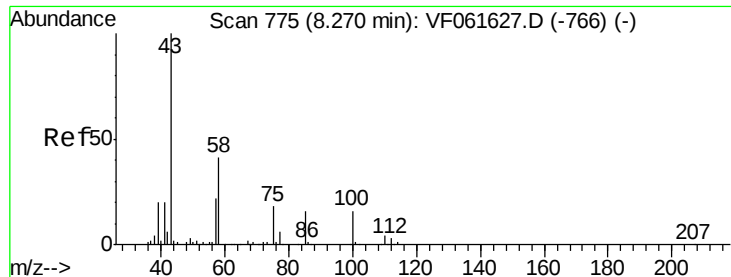
MMDadoda
2/18/2019 12:11:35 AM



#50
Toluene-d8
Concen: 50.890 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.0	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 96.134 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 43 Resp: 174906

Ion Ratio Lower Upper

43 100

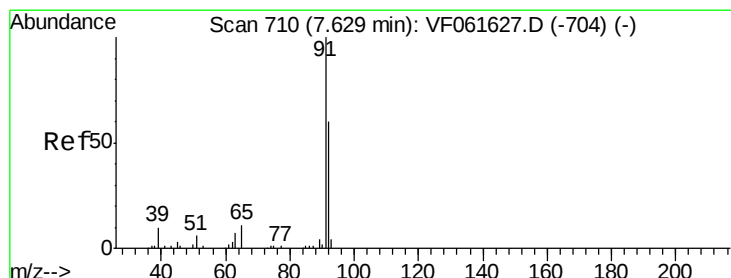
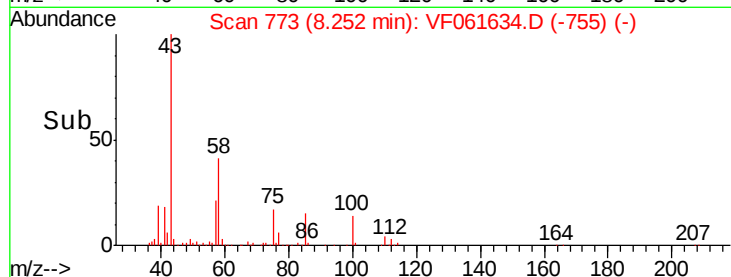
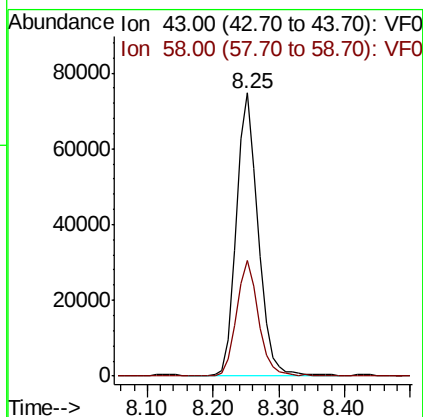
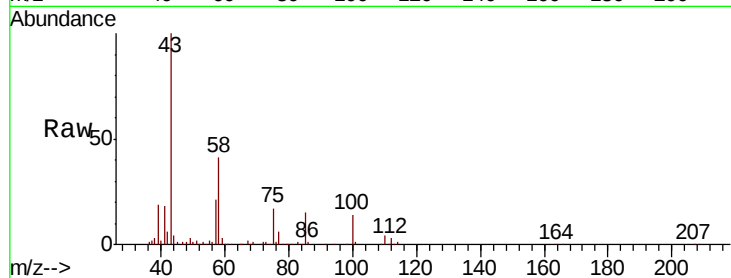
58 41.1 33.1 49.7

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#52

Toluene

Concen: 20.188 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061634.D

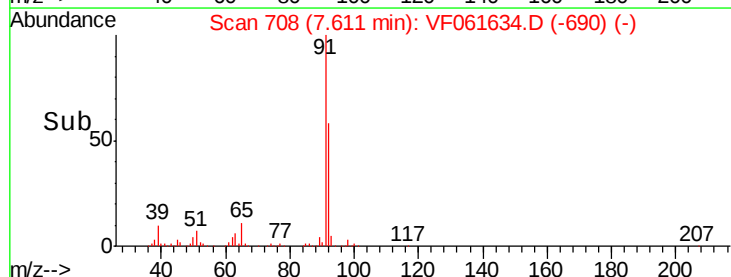
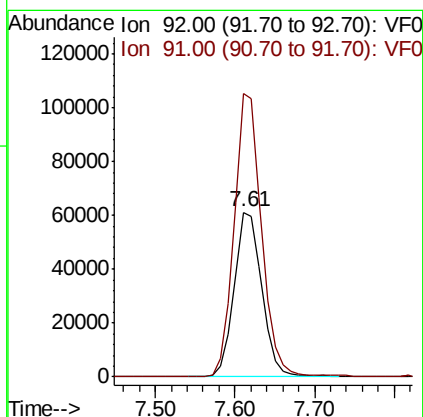
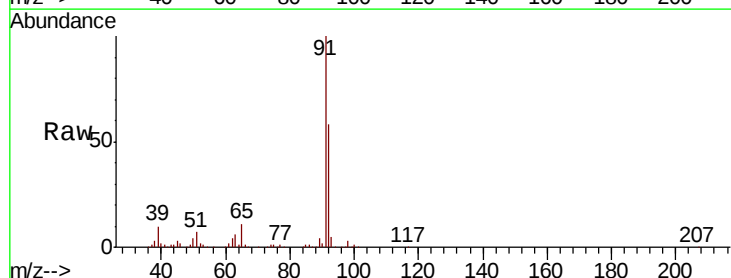
Acq: 14 Feb 2019 12:13

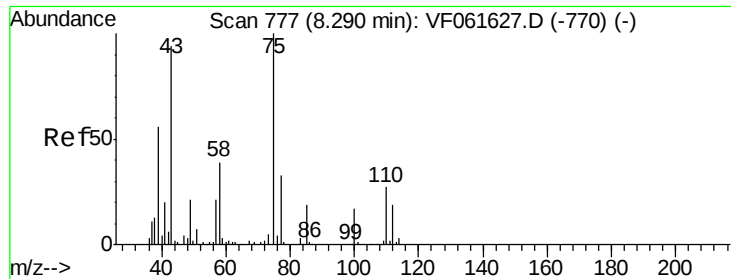
Tgt Ion: 92 Resp: 148320

Ion Ratio Lower Upper

92 100

91 172.0 133.9 200.9





#53

t-1,3-Dichloropropene

Concen: 19.867 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 75 Resp: 65282

Ion Ratio Lower Upper

75 100

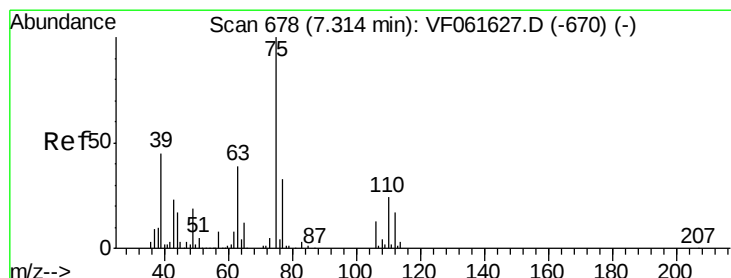
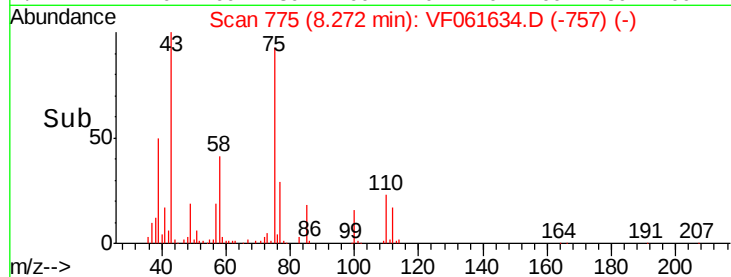
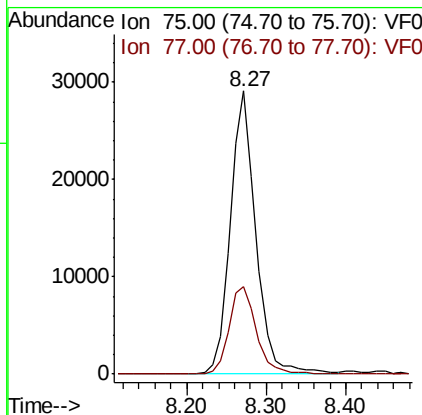
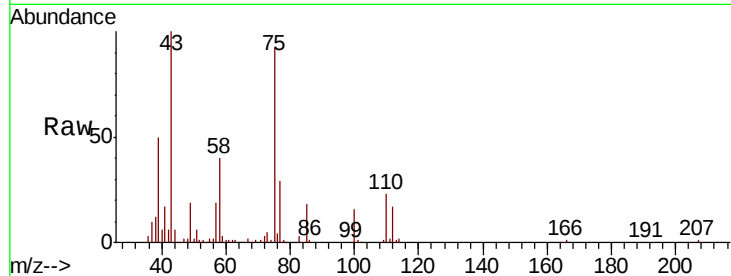
77 31.0 26.2 39.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.460 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

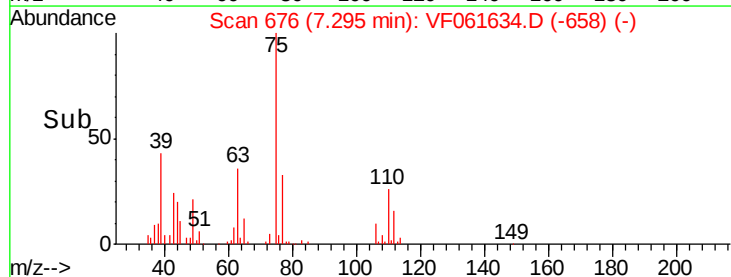
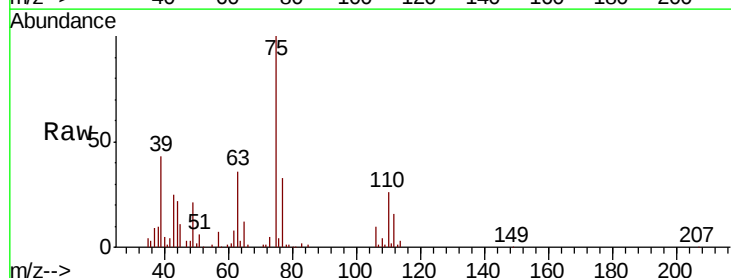
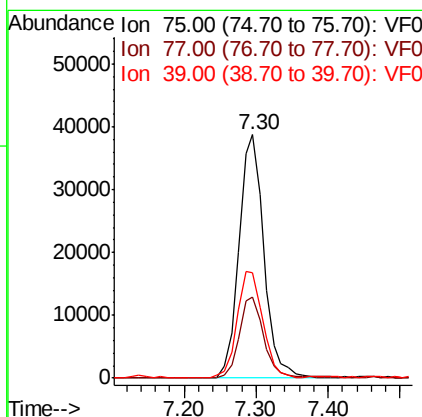
Tgt Ion: 75 Resp: 93925

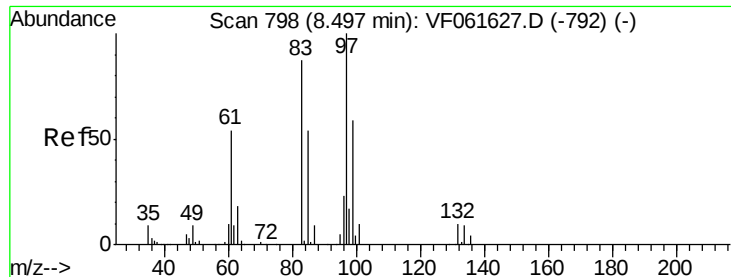
Ion Ratio Lower Upper

75 100

77 33.5 26.4 39.6

39 43.3 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 19.112 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

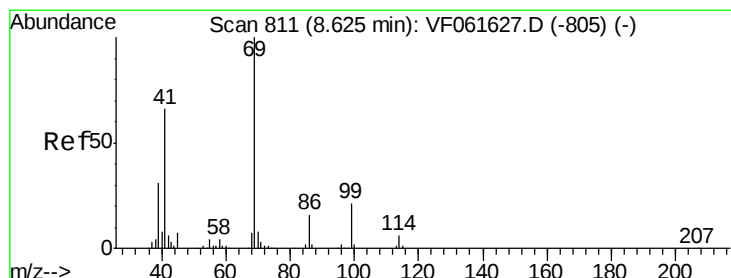
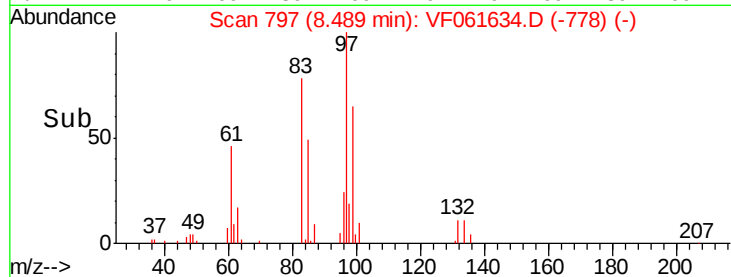
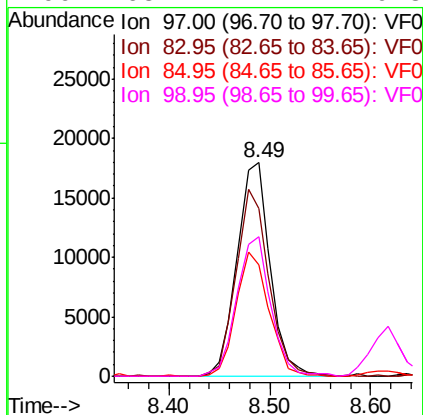
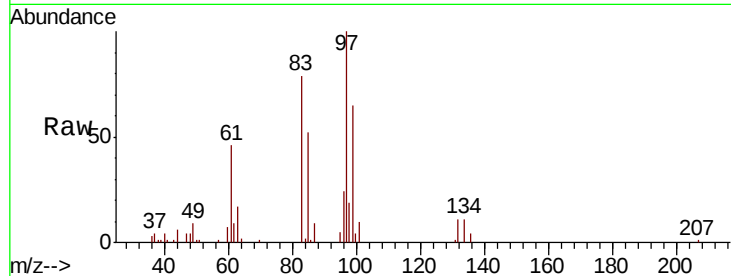
ClientSampleId :

VF0214SBS01

Tgt Ion:	97	Resp:	41256
Ion	Ratio	Lower	Upper
97	100		
83	78.8	69.2	103.8
85	52.1	43.0	64.4
99	65.1	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 17.895 ug/l

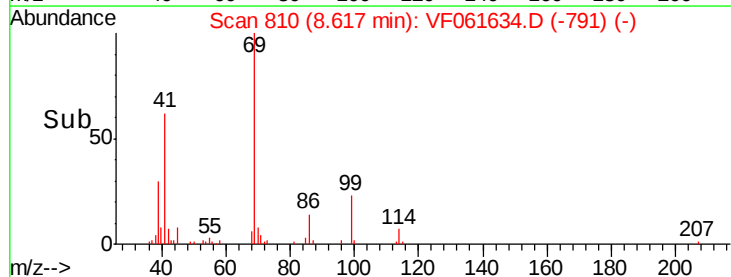
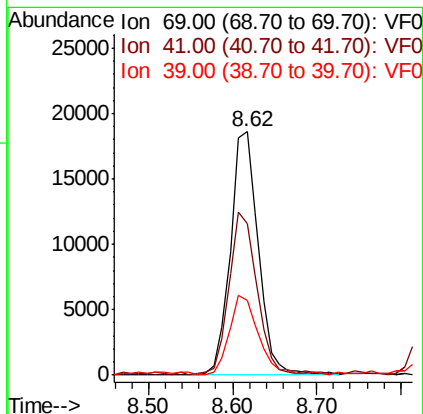
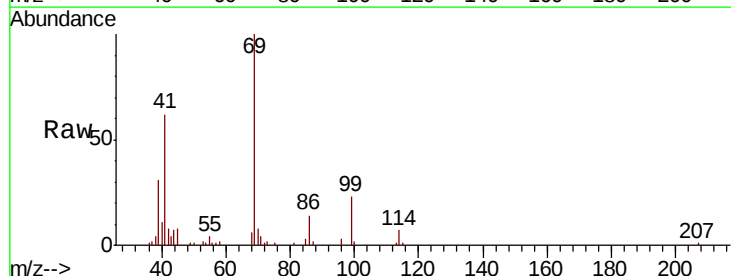
RT: 8.62 min Scan# 810

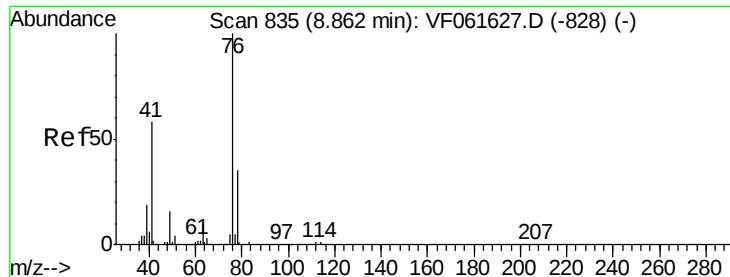
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	69	Resp:	43008
Ion	Ratio	Lower	Upper
69	100		
41	62.2	52.9	79.3
39	30.6	24.5	36.7





#57

1,3-Dichloropropane

Concen: 20.199 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 76 Resp: 72776

Ion Ratio Lower Upper

76 100

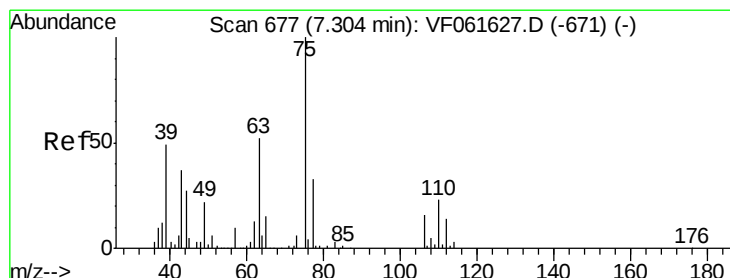
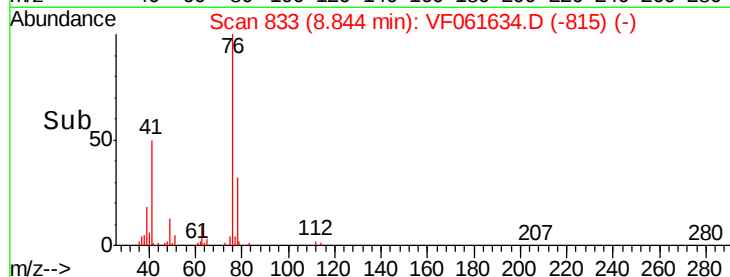
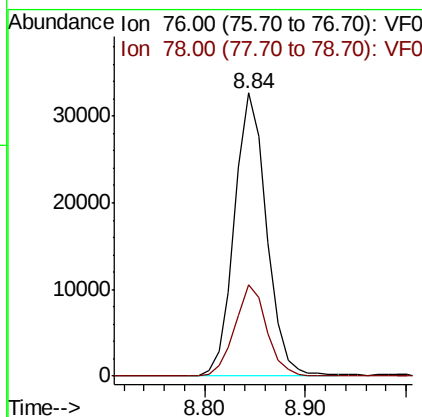
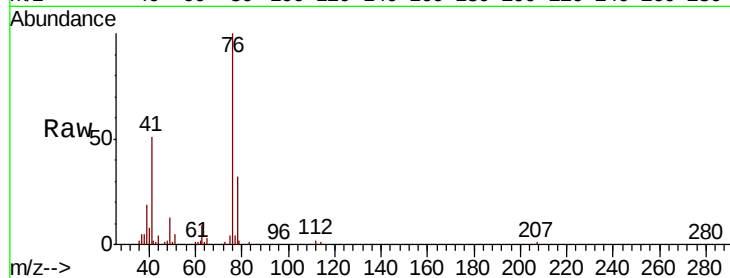
78 32.2 27.8 41.6

Manual Integrations

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MMDadoda

2/18/2019 12:11:35 AM



#58

2-Chloroethyl Vinyl ether

Concen: 86.165 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061634.D

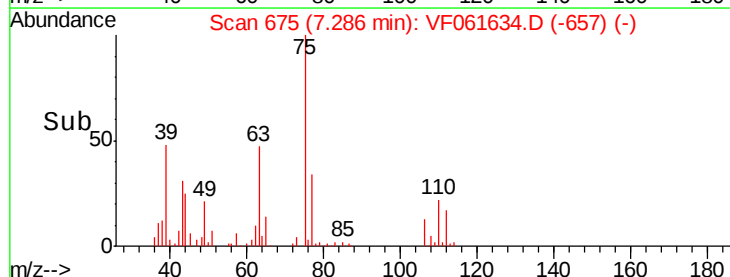
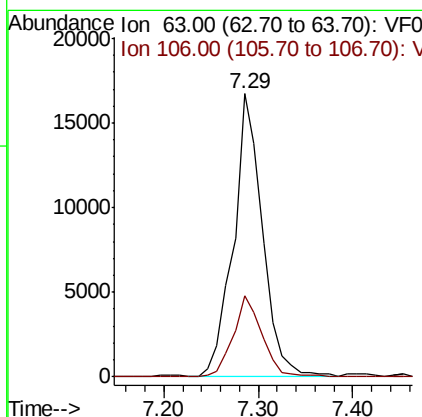
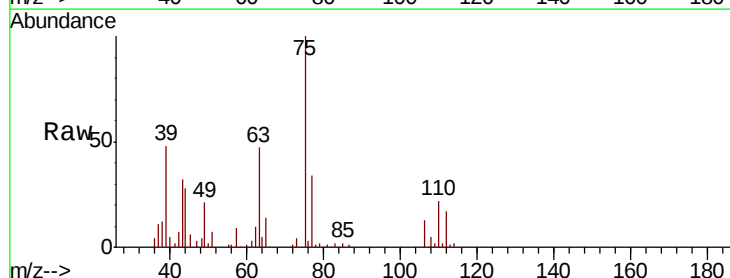
Acq: 14 Feb 2019 12:13

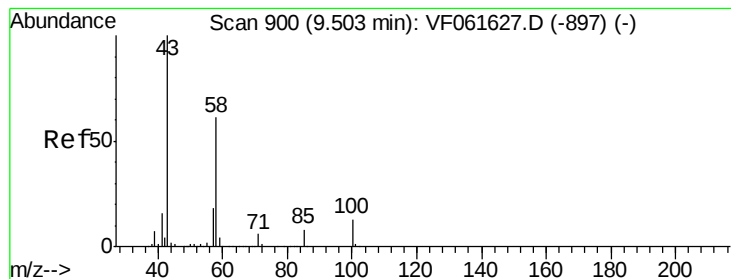
Tgt Ion: 63 Resp: 35729

Ion Ratio Lower Upper

63 100

106 28.7 24.6 36.8





#59

2-Hexanone

Concen: 97.777 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 43 Resp: 124700

Ion Ratio Lower Upper

43 100

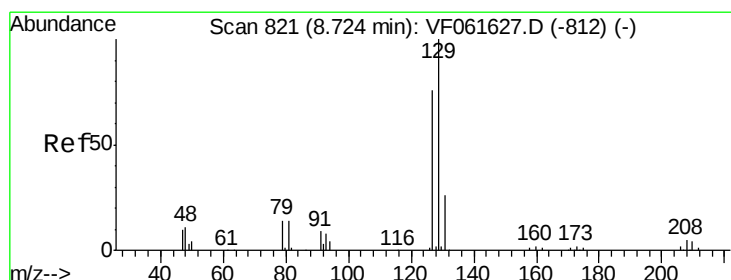
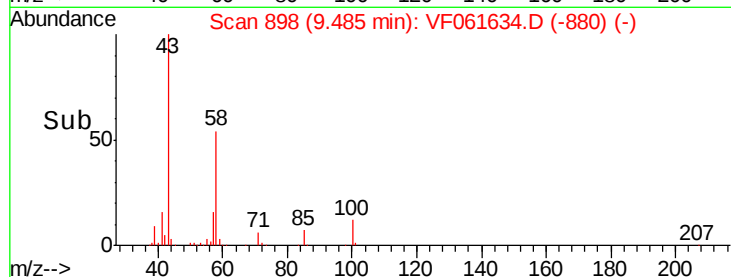
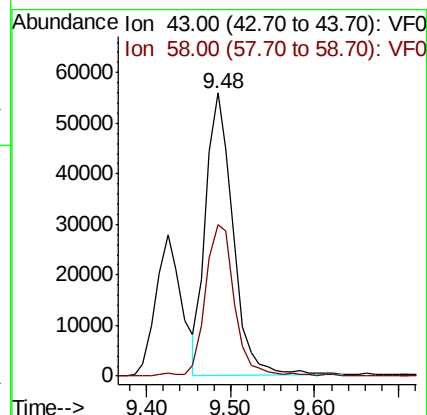
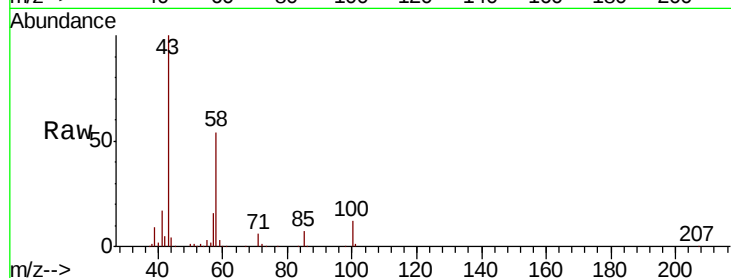
58 53.6 28.5 85.5

Manual Integrations

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#60

Dibromochloromethane

Concen: 19.303 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF061634.D

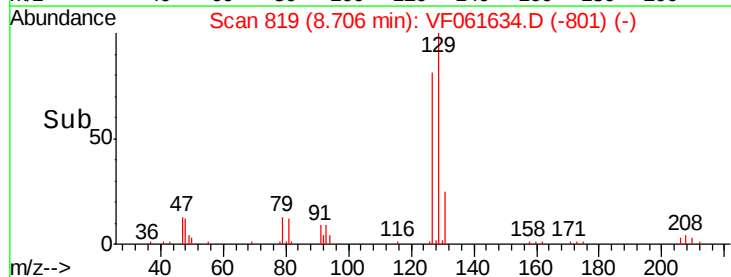
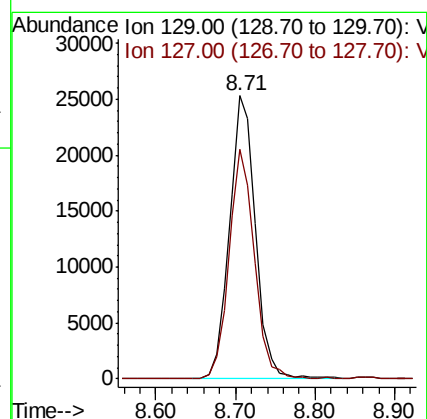
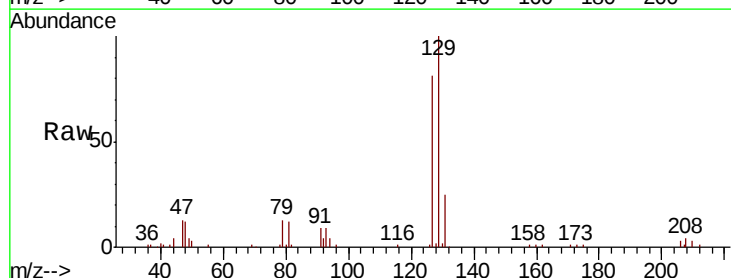
Acq: 14 Feb 2019 12:13

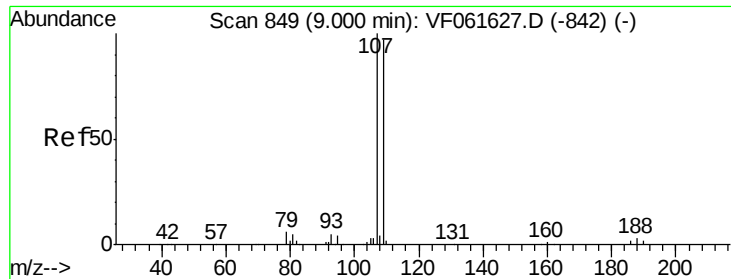
Tgt Ion: 129 Resp: 57995

Ion Ratio Lower Upper

129 100

127 81.3 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.622 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 107 Resp: 45942

Ion Ratio Lower Upper

107 100

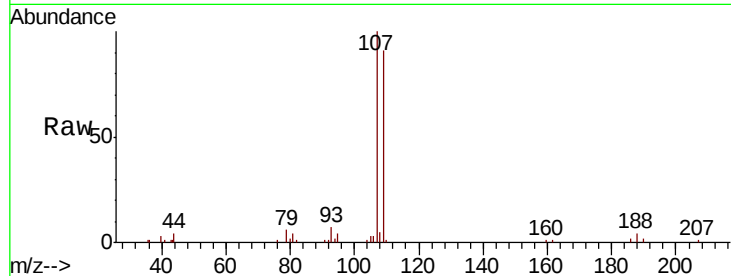
109 91.3 77.4 116.0

Manual Integrations

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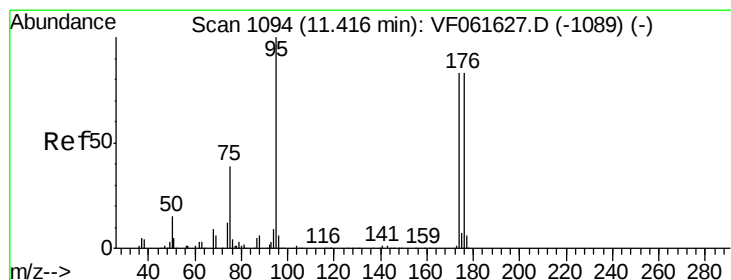
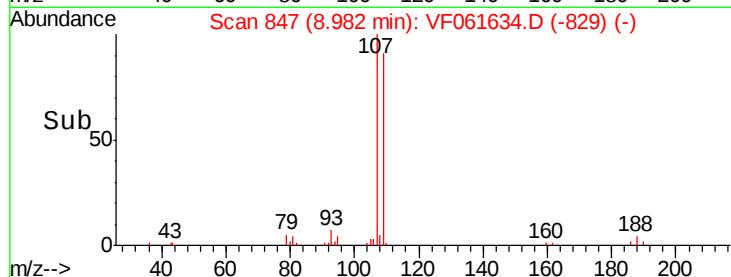
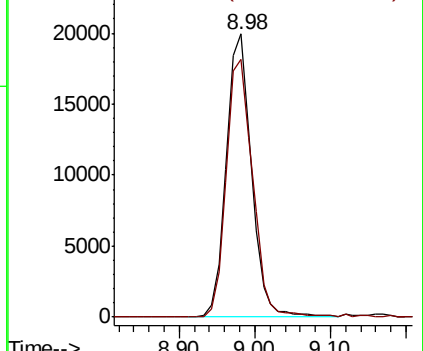
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 48.840 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

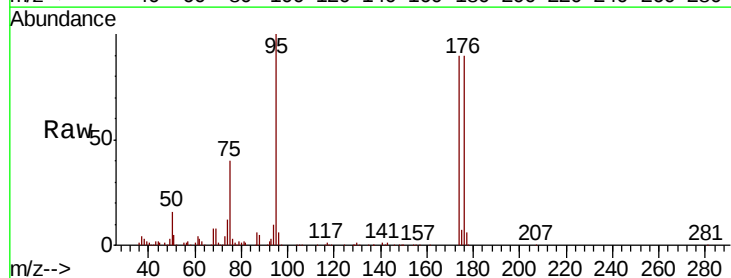
Tgt Ion: 95 Resp: 197228

Ion Ratio Lower Upper

95 100

174 90.4 0.0 165.8

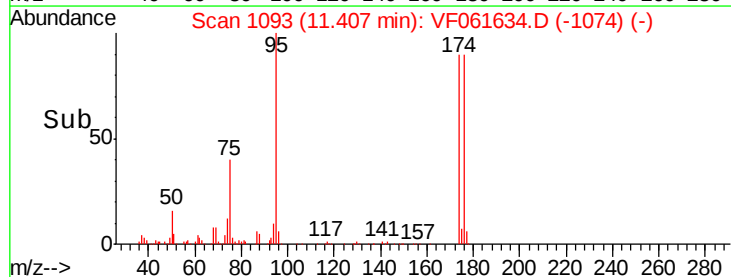
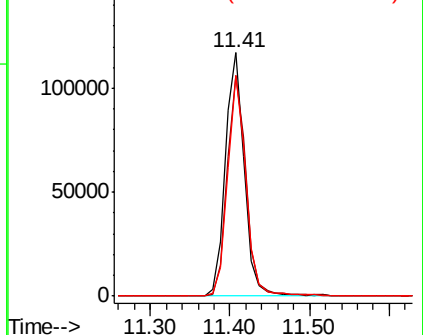
176 90.4 0.0 167.0

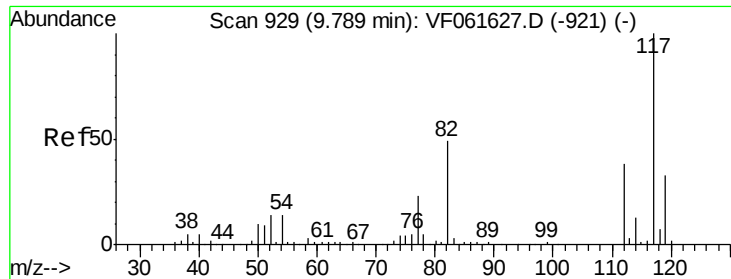


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





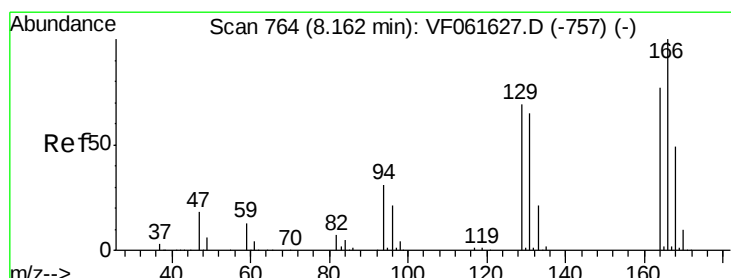
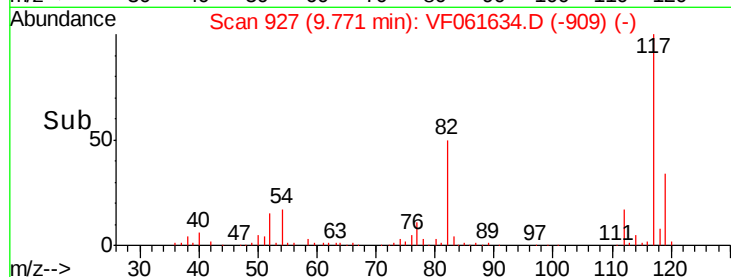
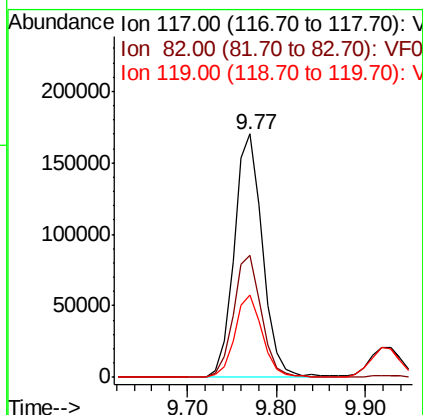
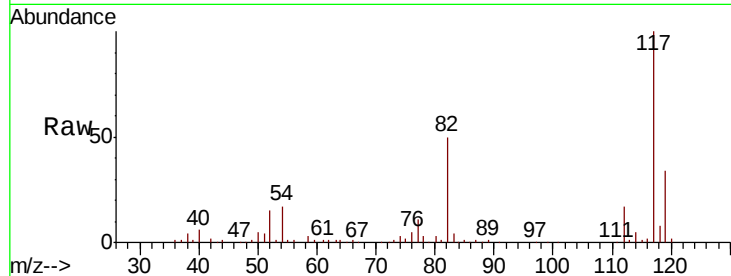
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	378821		
82	49.9	39.3	58.9	
119	33.9	26.6	40.0	

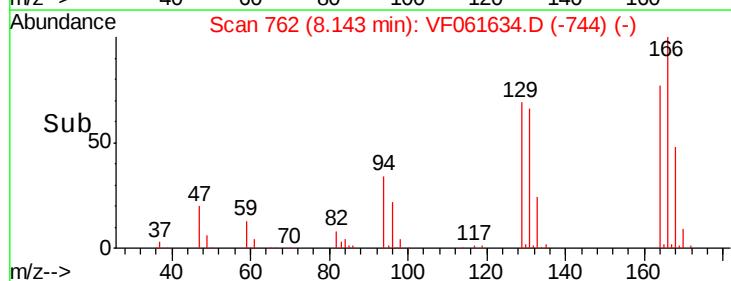
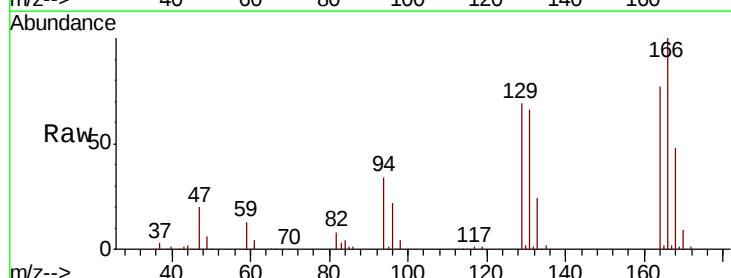
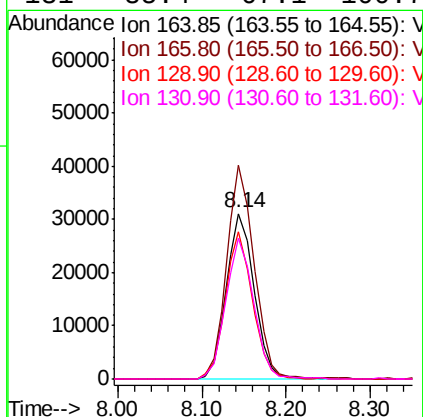
Manual Integrations
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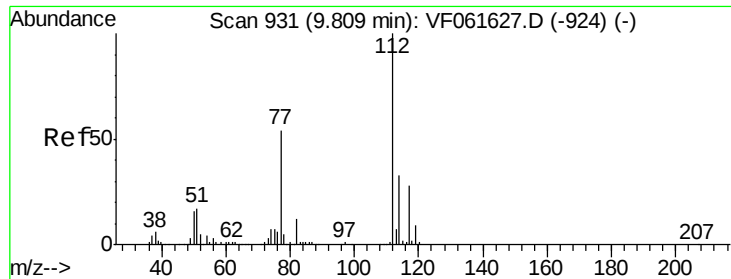
MMDadoda
2/18/2019 12:11:35 AM



#64
Tetrachloroethene
Concen: 23.120 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	71588		
166	129.3	103.9	155.9	
129	89.0	71.3	106.9	
131	85.4	67.1	100.7	





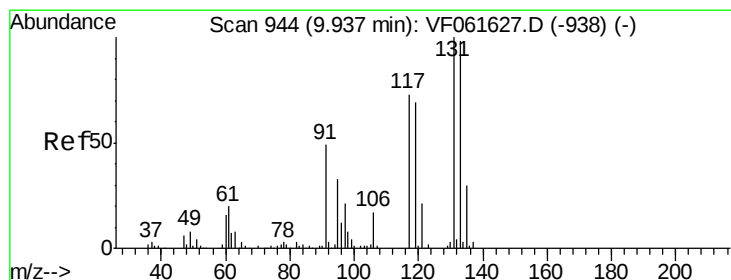
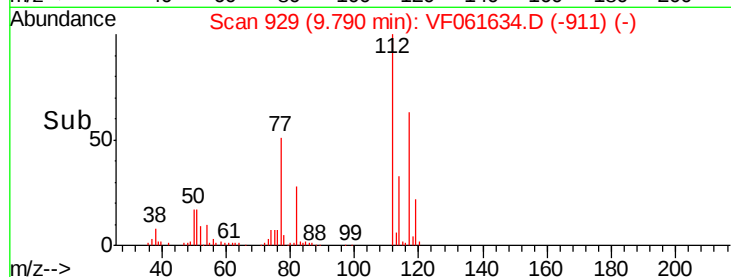
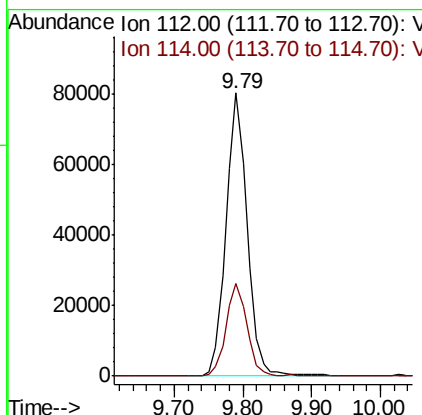
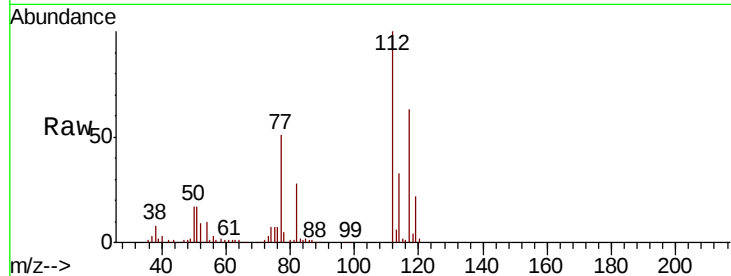
#65
Chlorobenzene
Concen: 22.239 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion:112 Resp: 170957
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.2

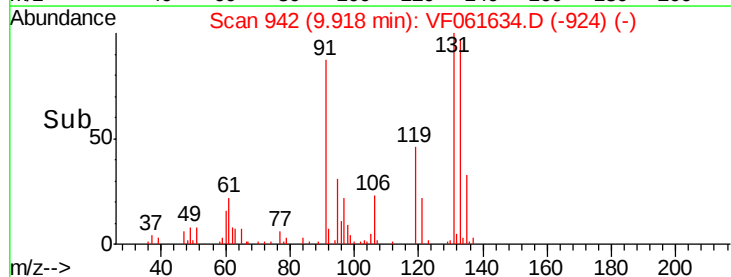
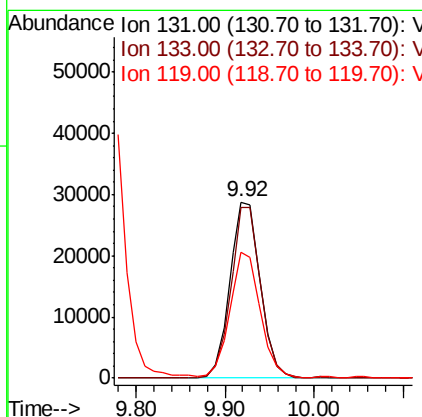
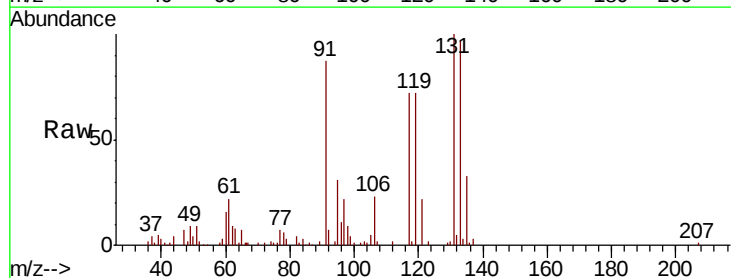
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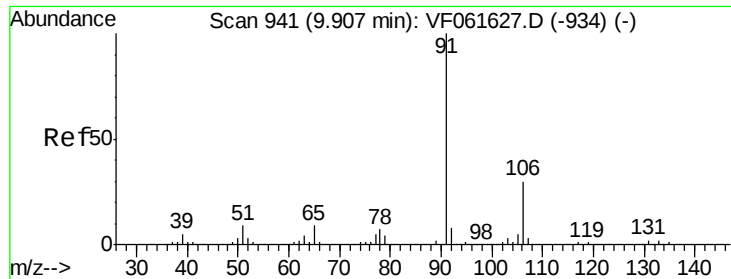
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.837 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion:131 Resp: 68790
Ion Ratio Lower Upper
131 100
133 97.2 48.9 146.6
119 71.8 34.8 104.3





#67

Ethyl Benzene

Concen: 22.428 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 91 Resp: 286710

Ion Ratio Lower Upper

91 100

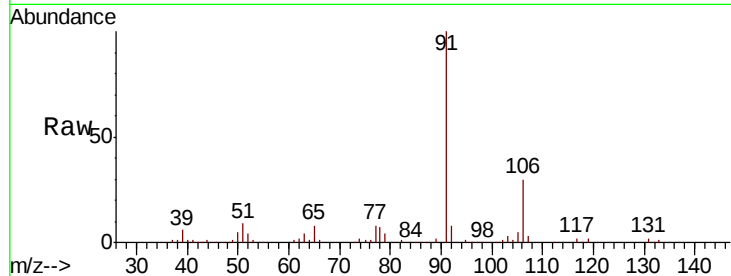
106 30.2 24.1 36.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

200000

150000

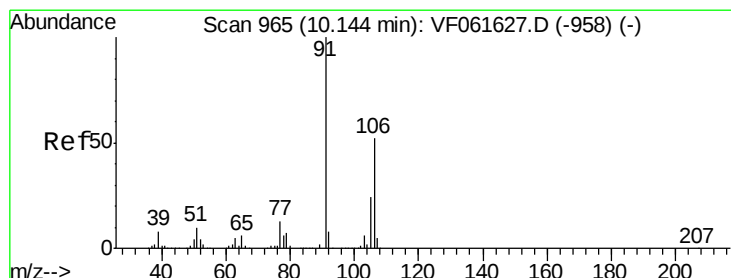
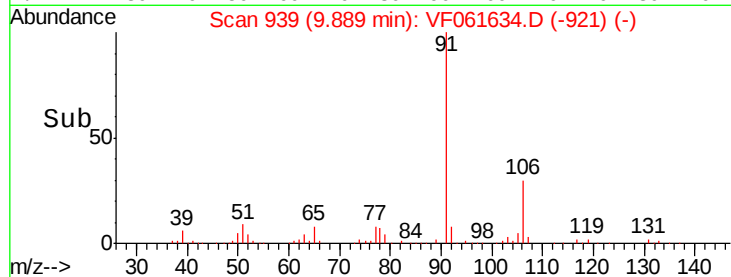
100000

50000

0

9.80 9.90 10.00

Time-->



#68

m/p-Xylenes

Concen: 47.156 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.02 min

Lab File: VF061634.D

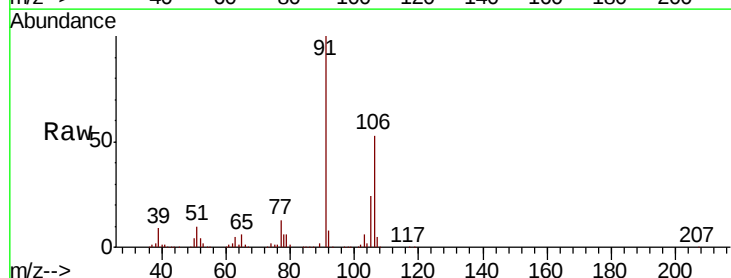
Acq: 14 Feb 2019 12:13

Tgt Ion: 106 Resp: 230710

Ion Ratio Lower Upper

106 100

91 190.0 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

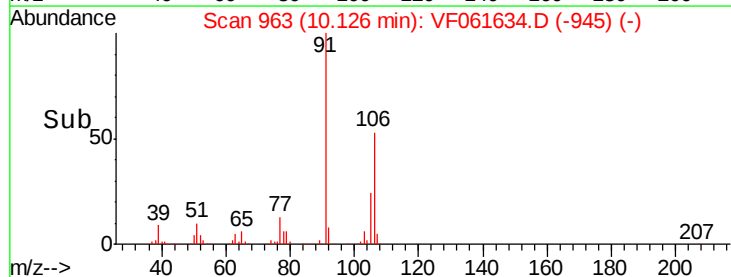
100000

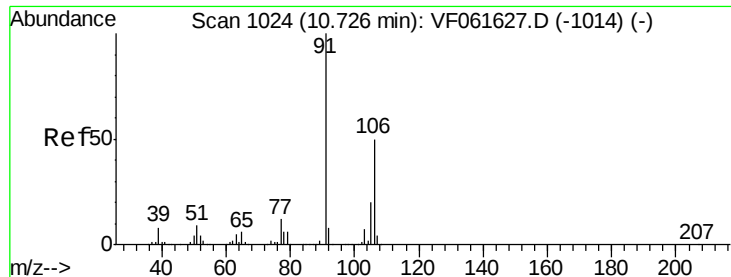
50000

0

10.10 10.13 10.20 10.30

Time-->





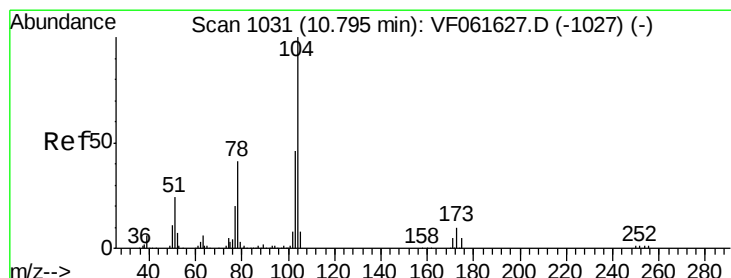
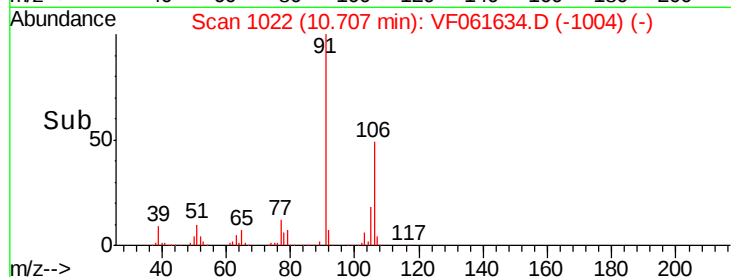
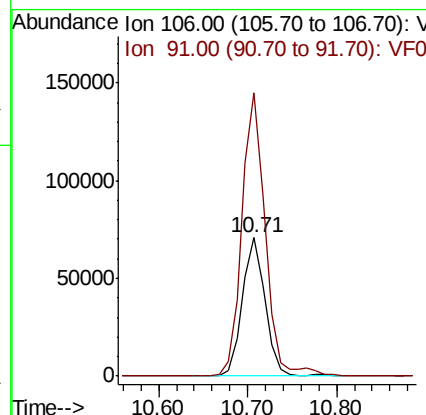
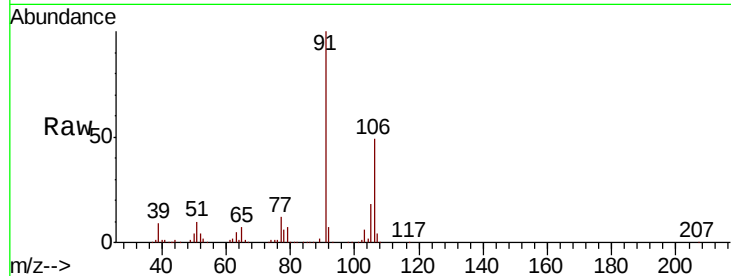
#69
o-Xylene
Concen: 24.375 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	127251		
91	204.1	100.1	300.1	

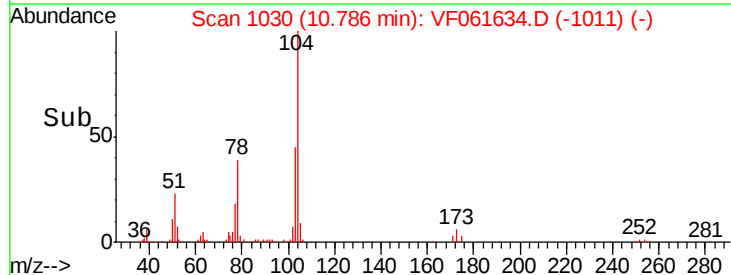
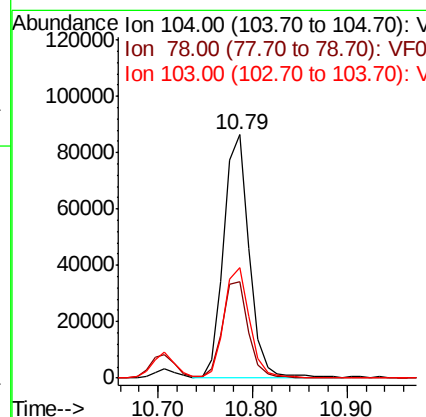
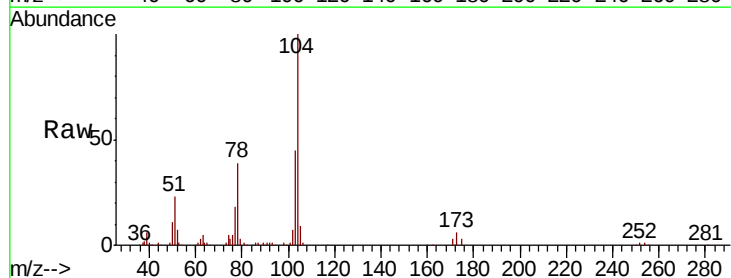
Manual Integrations
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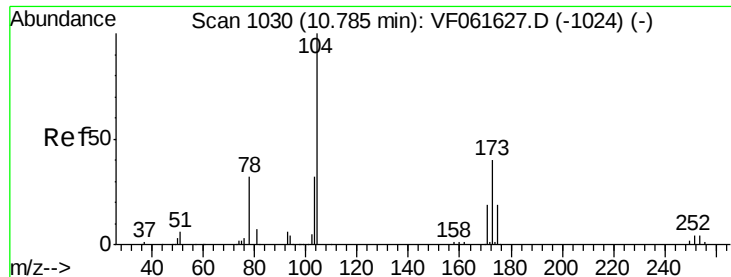
MMDadoda
2/18/2019 12:11:35 AM



#70
Styrene
Concen: 21.882 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	161603		
78	39.4	33.2	49.8	
103	45.4	37.2	55.8	





#71

Bromoform

Concen: 20.410 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

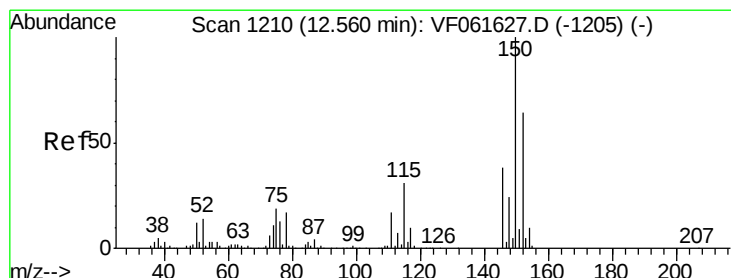
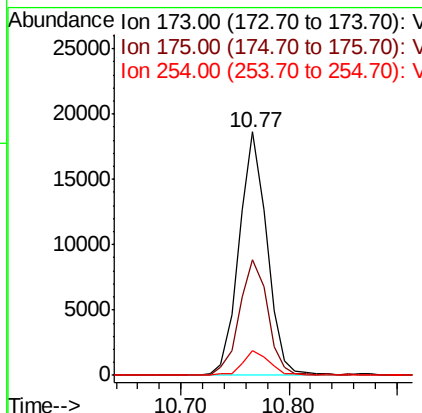
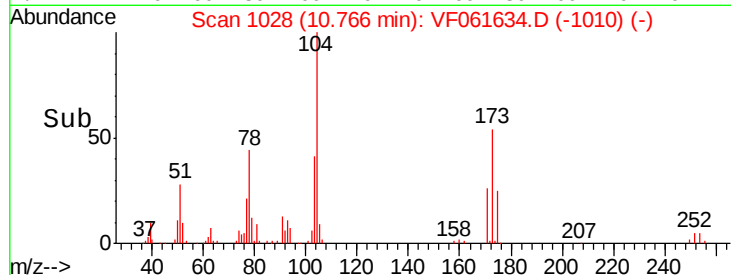
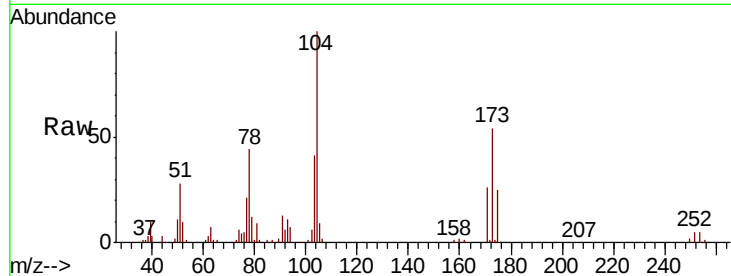
ClientSampleId :

VF0214SBS01

Tgt Ion:	173	Resp:	33385
Ion Ratio	Lower	Upper	
173	100		
175	47.3	24.0	72.0
254	10.0	8.2	12.2

Manual Integrations
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MMDadoda
2/18/2019 12:11:35 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

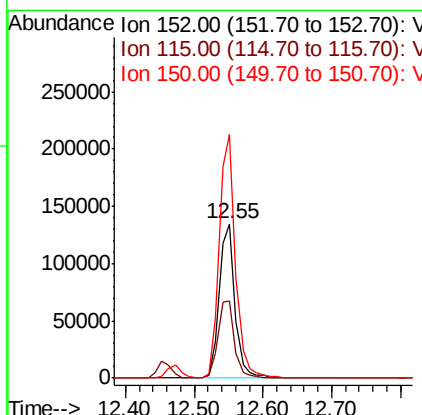
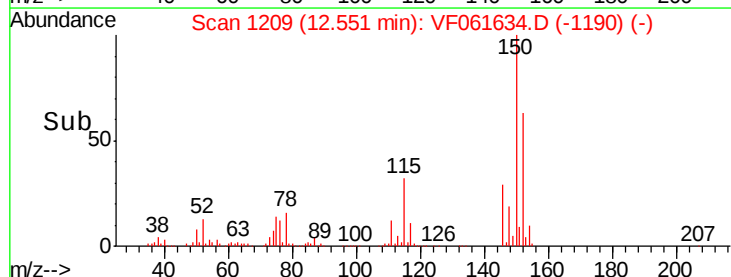
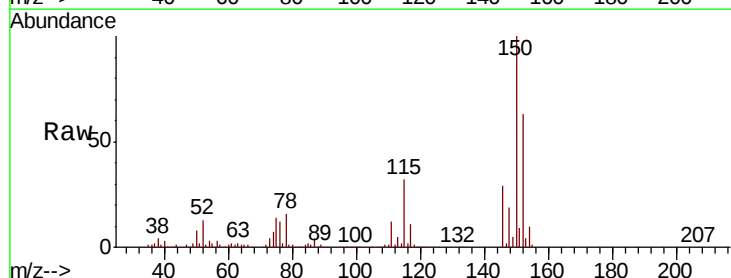
RT: 12.55 min Scan# 1209

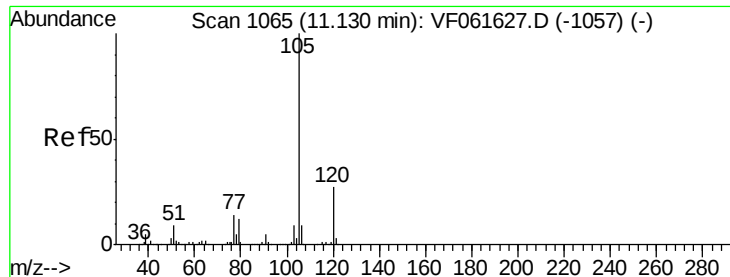
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	152	Resp:	214586
Ion Ratio	Lower	Upper	
152	100		
115	50.0	24.3	72.8
150	157.7	0.0	312.0





#73

Isopropylbenzene

Concen: 23.064 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBS01

Tgt Ion: 105 Resp: 352376

Ion Ratio Lower Upper

105 100

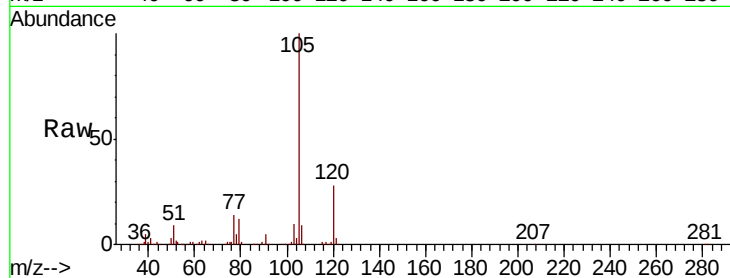
120 27.8 13.4 40.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

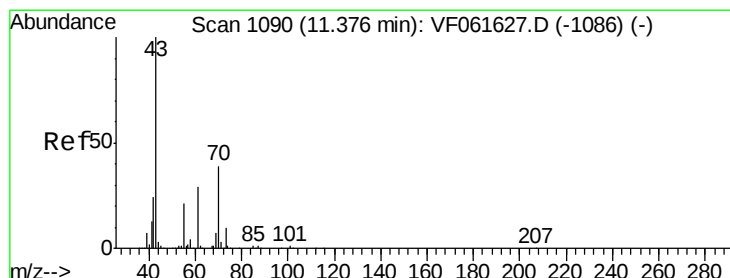
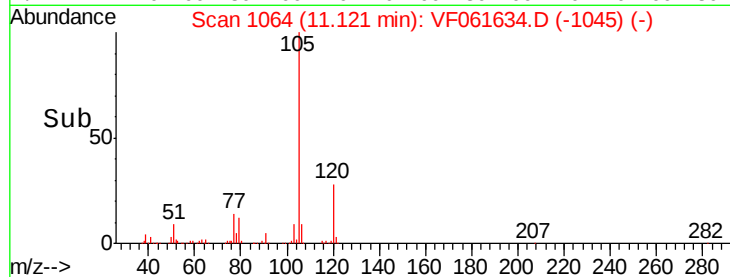
100000

50000

0

11.00 11.10 11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 20.809 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion: 43 Resp: 76310

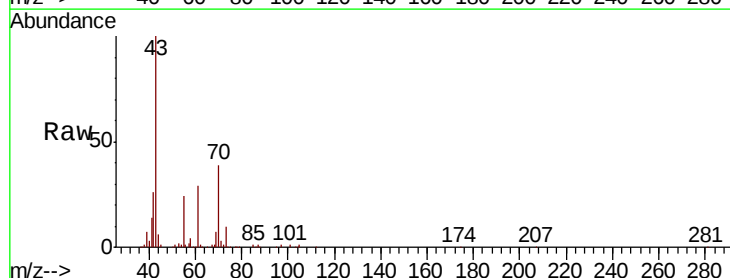
Ion Ratio Lower Upper

43 100

70 39.2 31.5 47.3

55 23.8 16.7 25.1

61 29.3 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

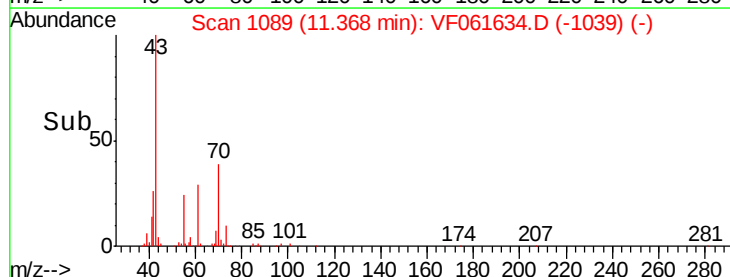
40000

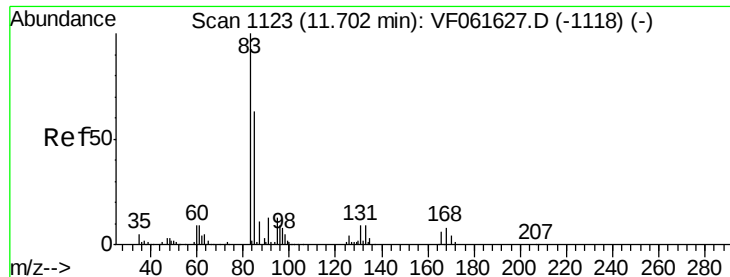
20000

0

11.30 11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.491 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

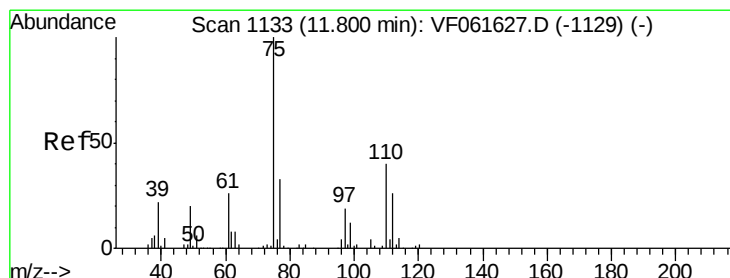
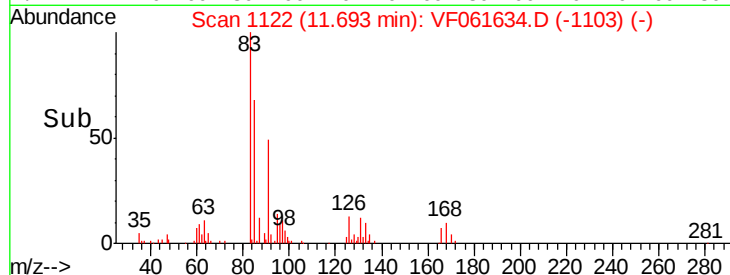
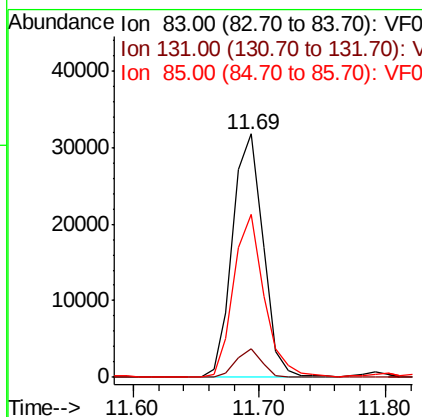
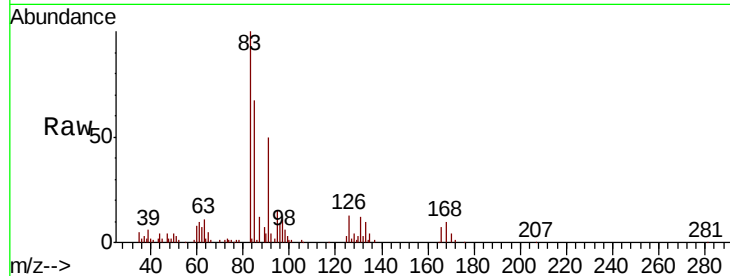
ClientSampleId :

VF0214SBS01

Tgt Ion:	83	Resp:	53349
Ion Ratio	Lower	Upper	
83	100		
131	11.7	4.4	13.2
85	67.2	31.5	94.5

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#76

1,2,3-Trichloropropane

Concen: 19.378 ug/l

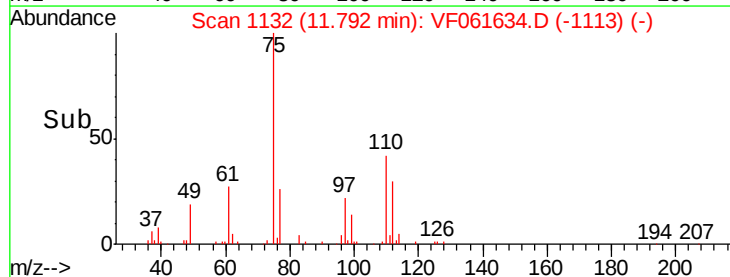
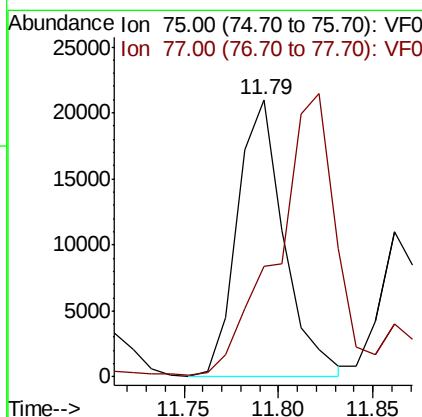
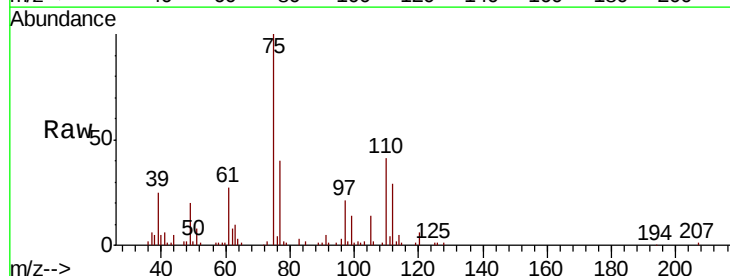
RT: 11.79 min Scan# 1132

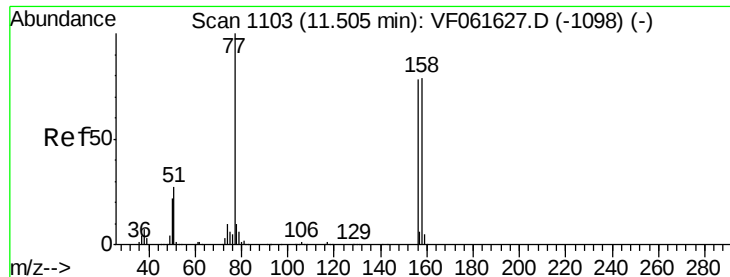
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	75	Resp:	36061
Ion Ratio	Lower	Upper	
75	100		
77	39.8	16.6	49.7





#77

Bromobenzene

Concen: 21.325 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

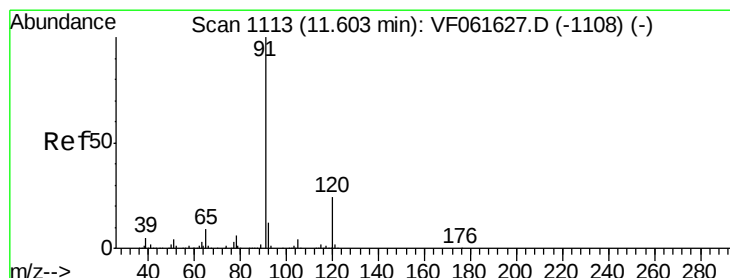
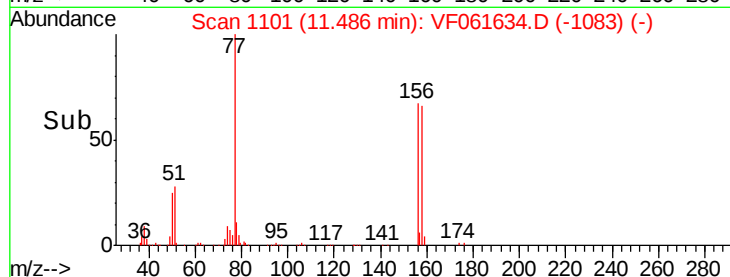
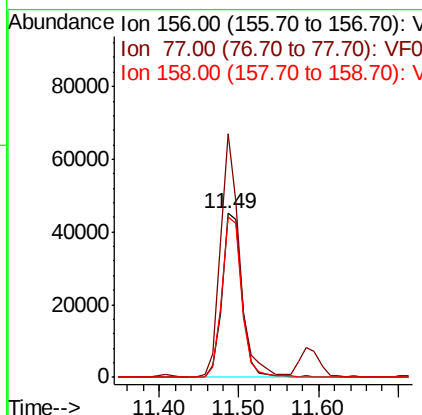
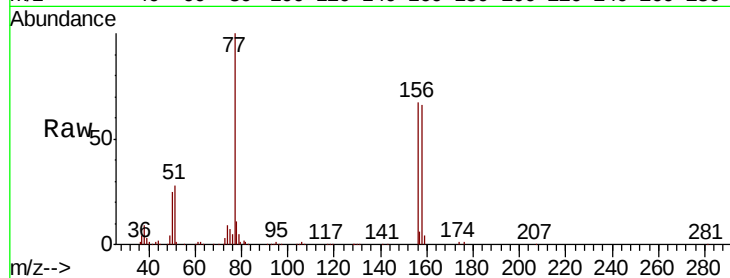
ClientSampleId :

VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	148.3	64.3	192.7
158	97.4	50.9	152.7

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#78

n-propylbenzene

Concen: 23.104 ug/l

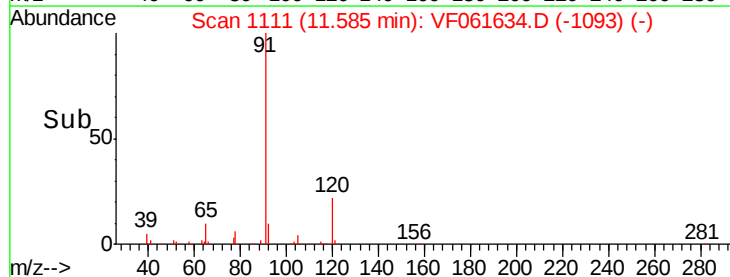
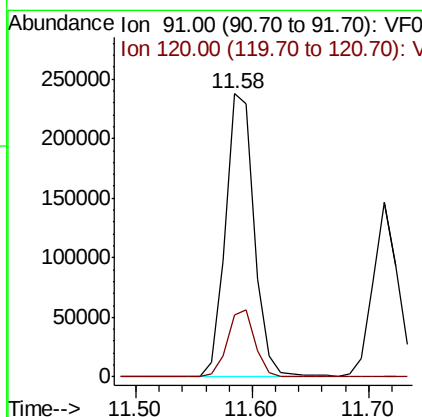
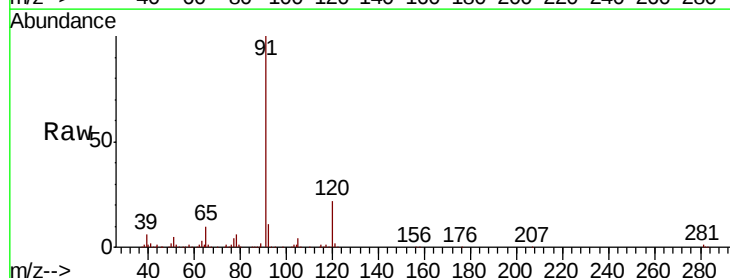
RT: 11.58 min Scan# 1111

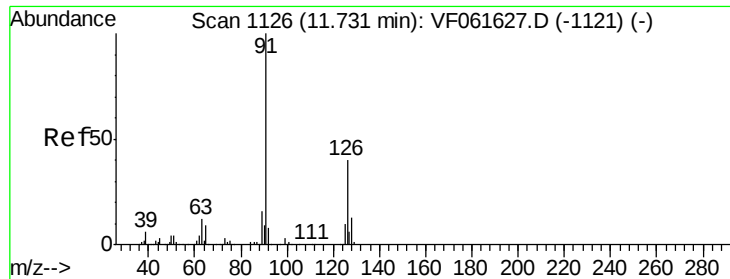
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	12.1	36.3





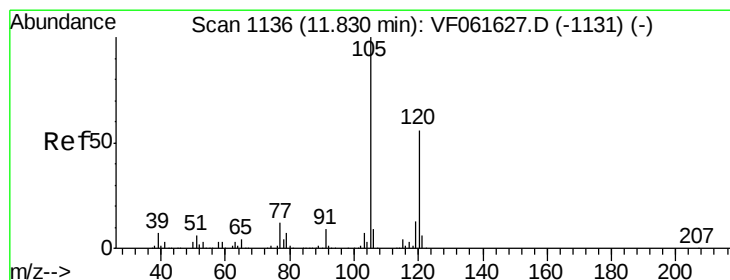
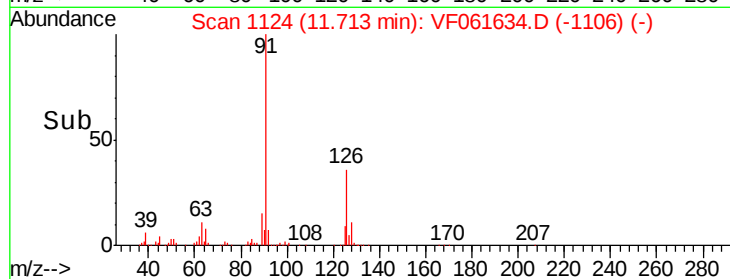
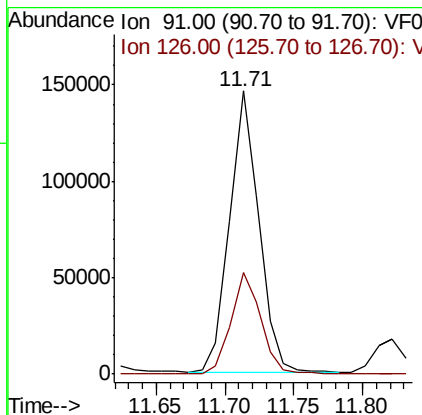
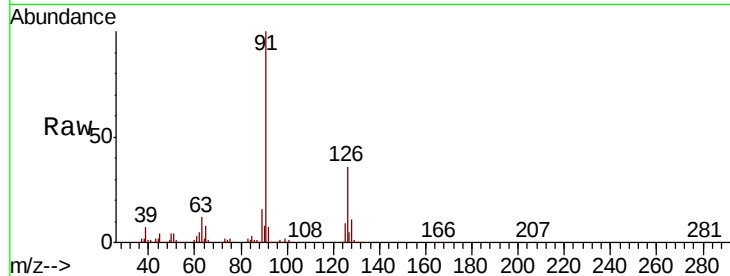
#79
 2-Chlorotoluene
 Concen: 22.143 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.02 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion: 91 Resp: 217416
 Ion Ratio Lower Upper
 91 100
 126 35.9 19.8 59.4

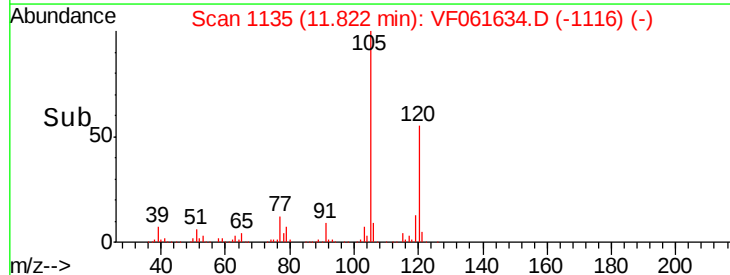
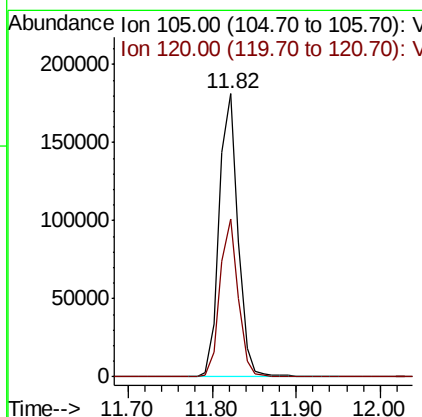
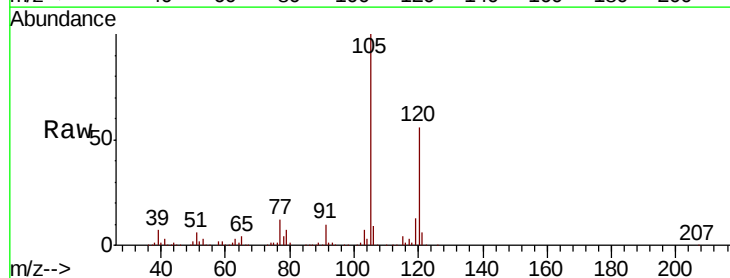
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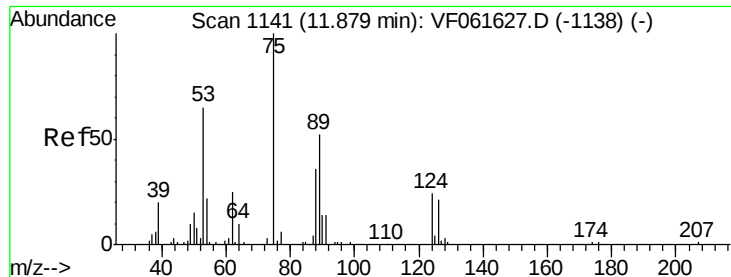
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#80
 1,3,5-Trimethylbenzene
 Concen: 23.123 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion: 105 Resp: 282348
 Ion Ratio Lower Upper
 105 100
 120 55.7 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 19.081 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

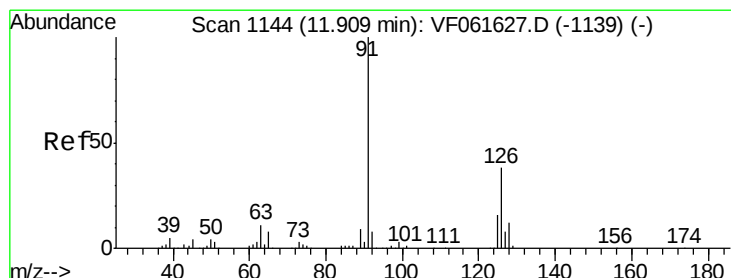
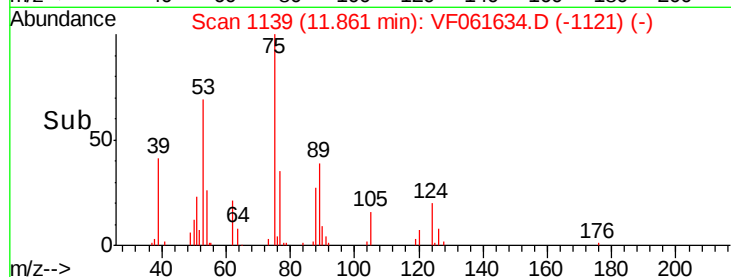
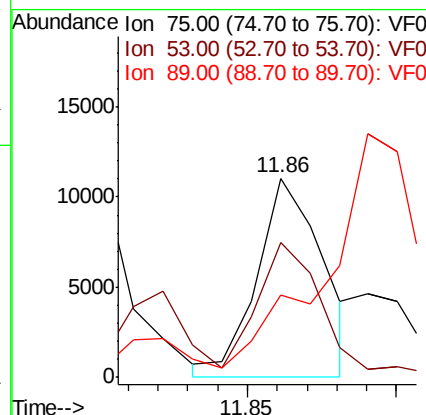
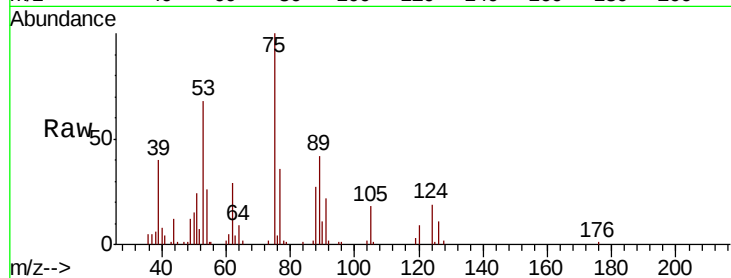
ClientSampleId :

VF0214SBS01

Tgt Ion:	75	Resp:	17023
Ion Ratio	Lower	Upper	
75	100		
53	67.9	53.7	80.5
89	41.5	41.6	62.4#

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#82

4-Chlorotoluene

Concen: 21.954 ug/l

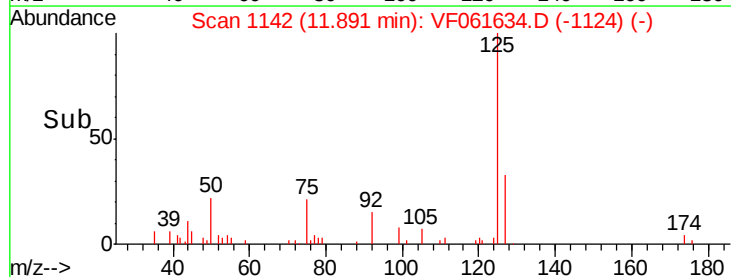
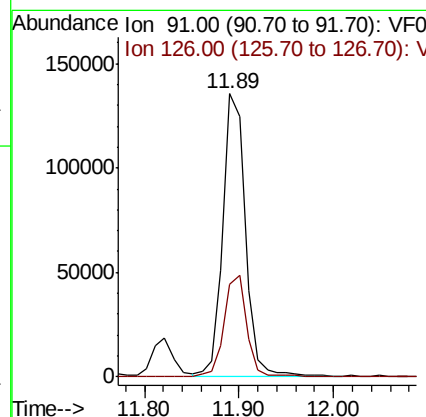
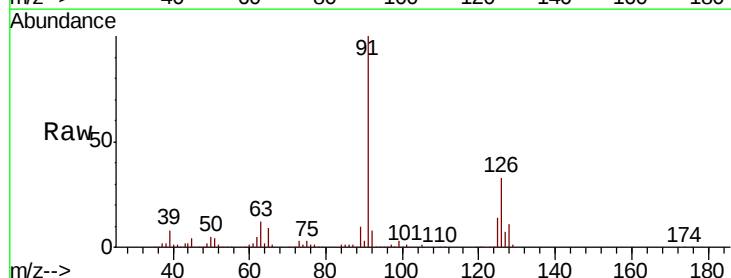
RT: 11.89 min Scan# 1142

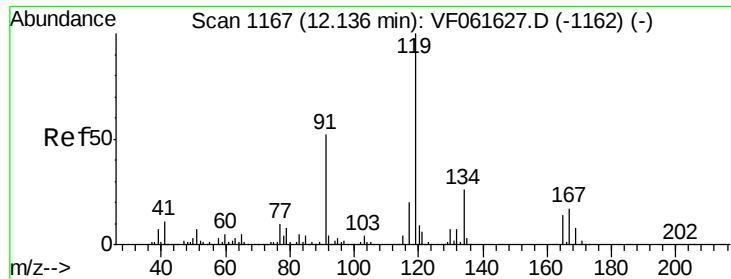
Delta R.T. -0.02 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	91	Resp:	223746
Ion Ratio	Lower	Upper	
91	100		
126	32.9	19.1	57.1





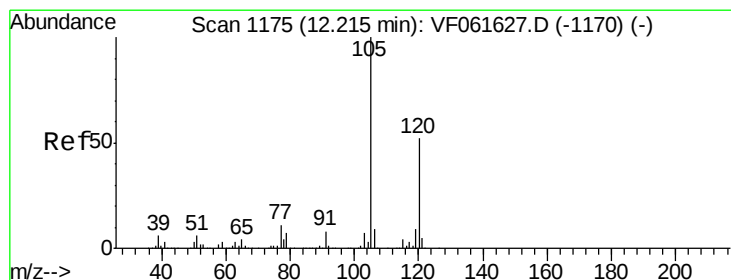
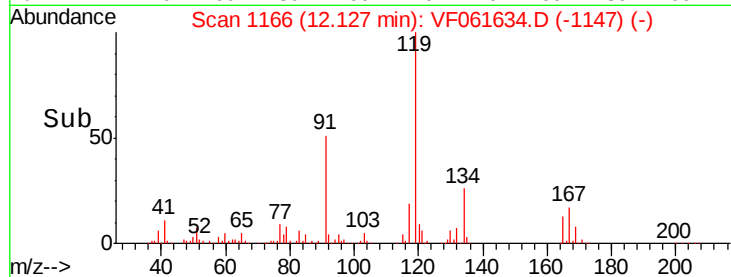
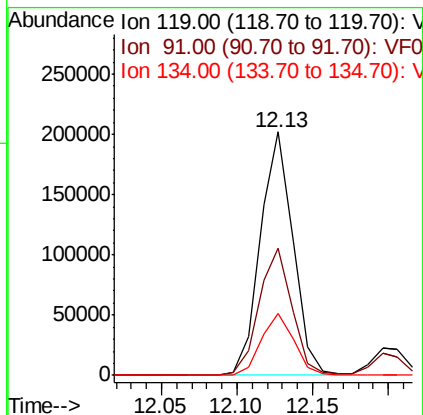
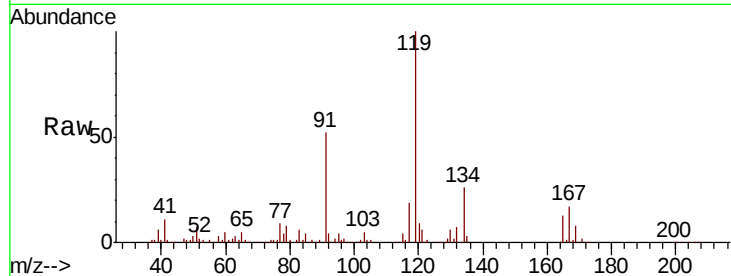
#83
 tert-Butylbenzene
 Concen: 22.712 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	307177		
91	52.4	26.3	78.8	
134	25.6	12.9	38.7	

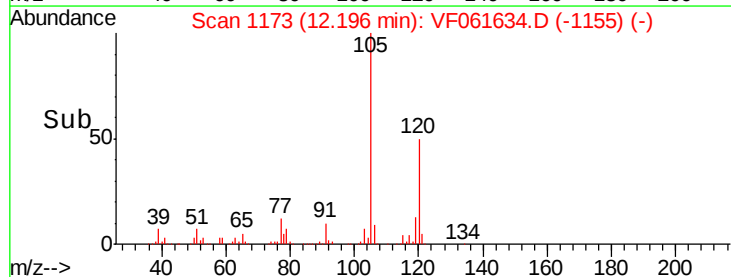
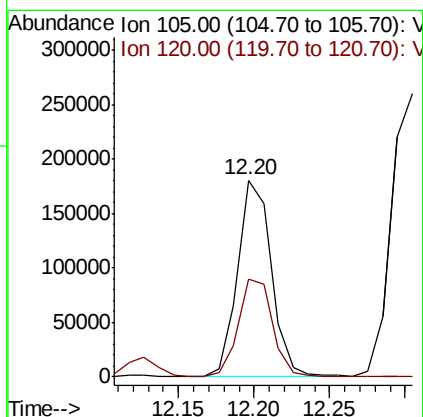
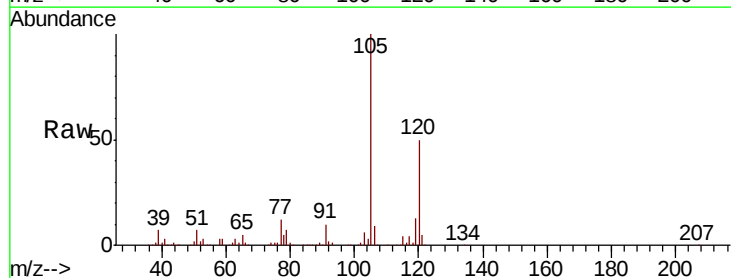
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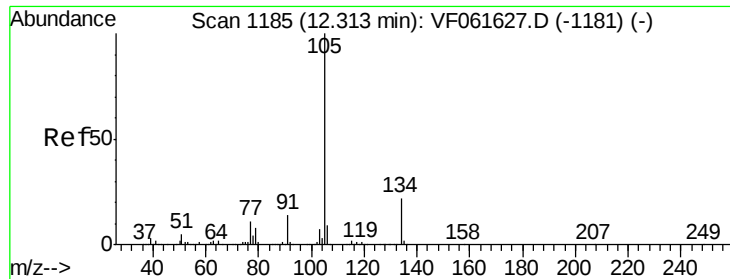
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#84
 1,2,4-Trimethylbenzene
 Concen: 23.103 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	280267		
120	49.9	26.1	78.3	





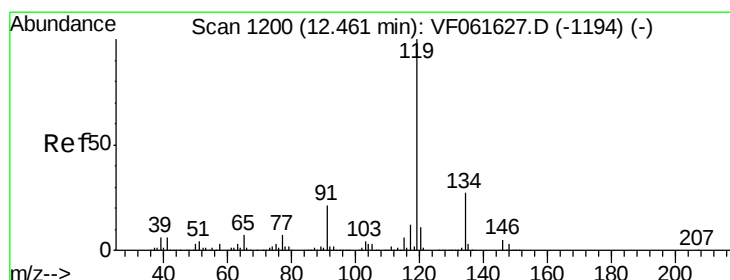
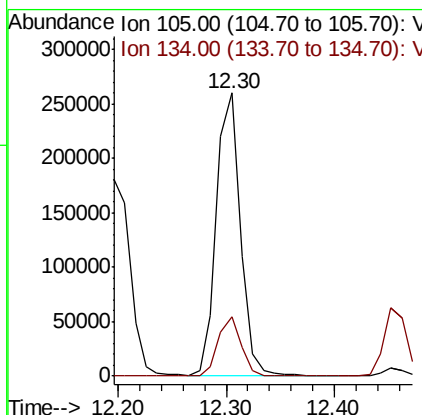
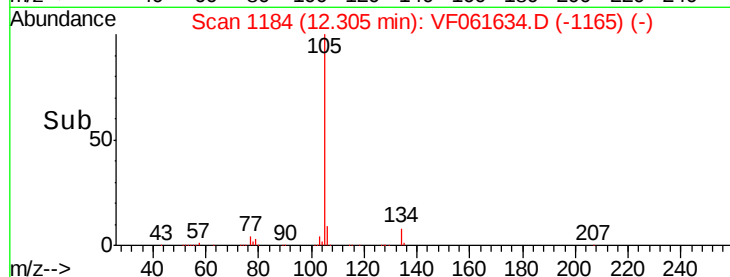
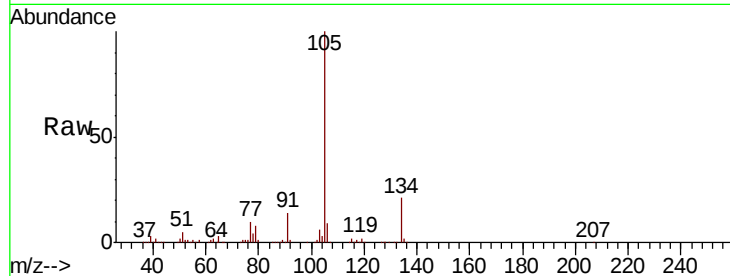
#85
 sec-Butylbenzene
 Concen: 22.956 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.1	10.8	32.4

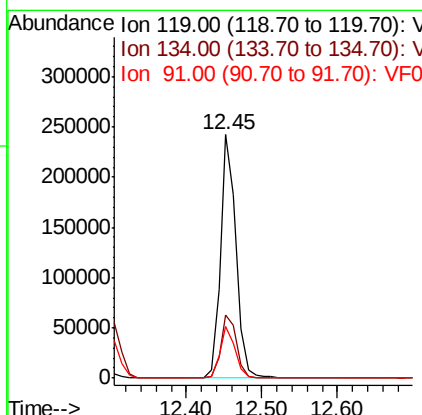
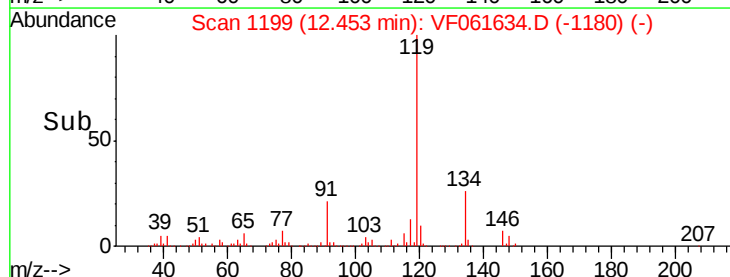
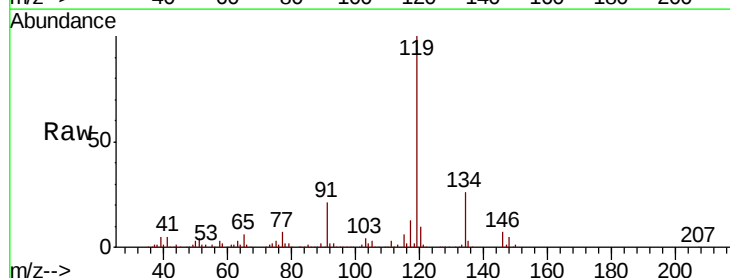
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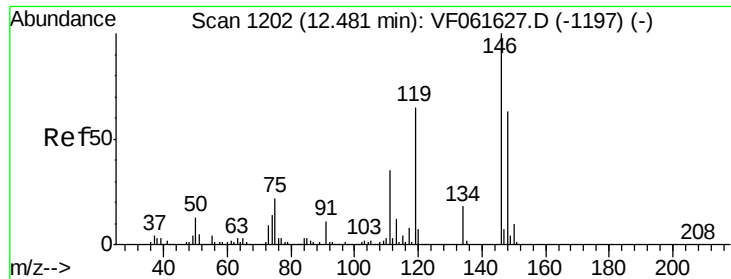
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#86
 p-Isopropyltoluene
 Concen: 23.699 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.7	41.1
91	21.2	10.8	32.4





#87

1,3-Dichlorobenzene

Concen: 21.566 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

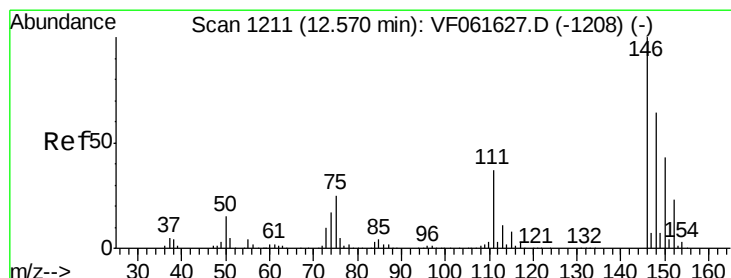
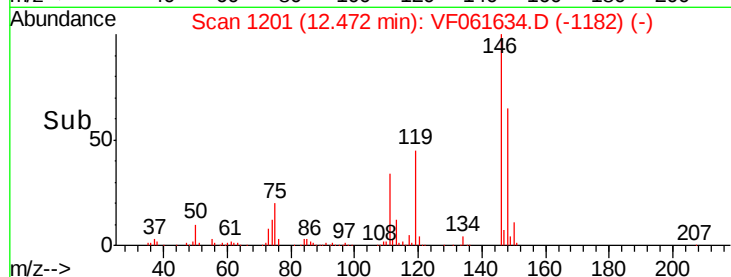
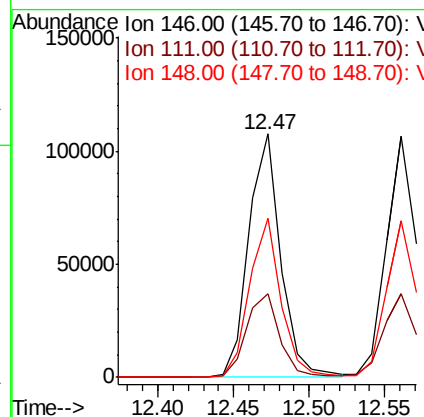
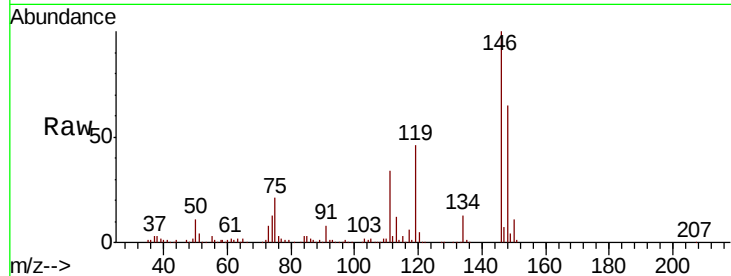
ClientSampleId :

VF0214SBS01

Tgt Ion:	146	Resp:	158689
Ion Ratio	Lower	Upper	
146	100		
111	34.2	17.5	52.6
148	65.2	31.4	94.3

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#88

1,4-Dichlorobenzene

Concen: 21.839 ug/l

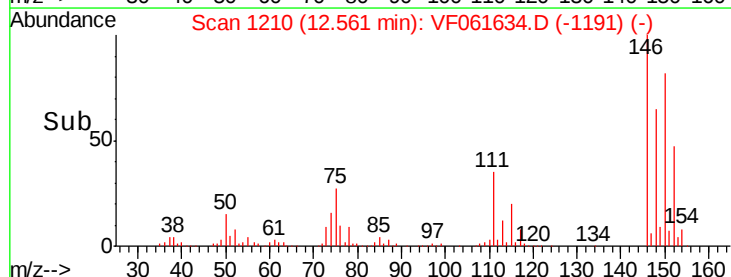
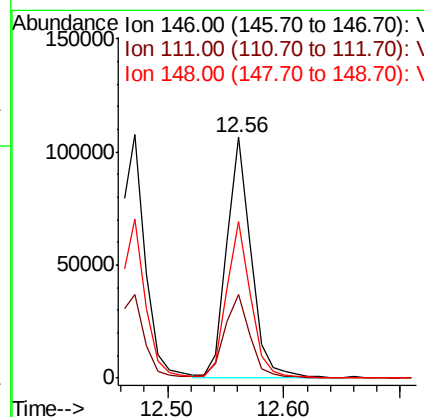
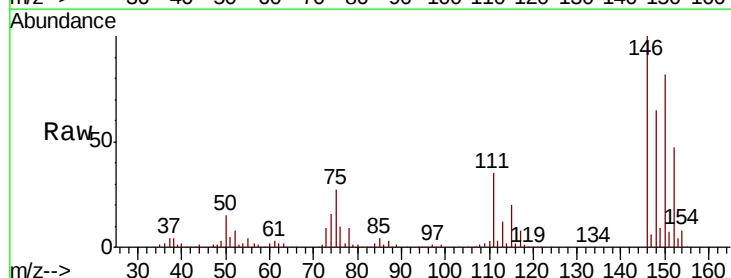
RT: 12.56 min Scan# 1210

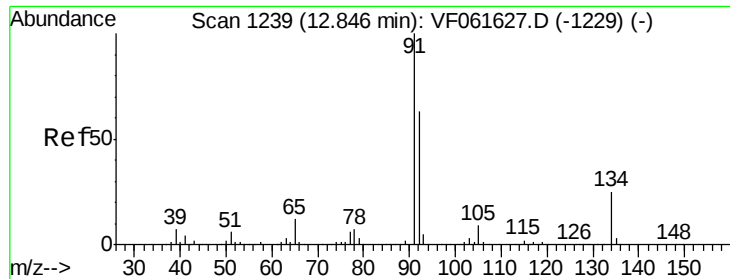
Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	146	Resp:	154545
Ion Ratio	Lower	Upper	
146	100		
111	34.7	18.4	55.4
148	65.3	32.2	96.6





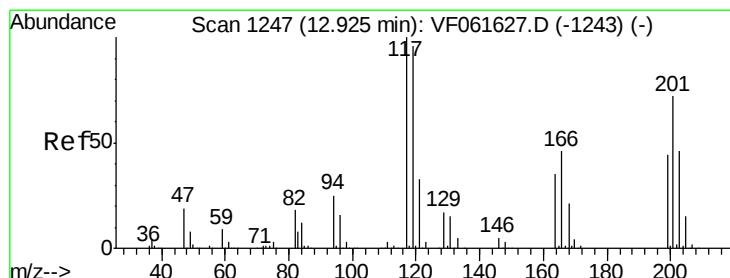
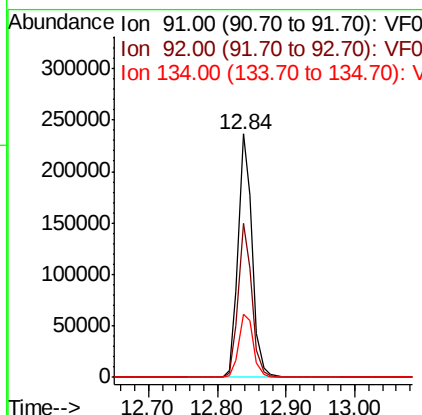
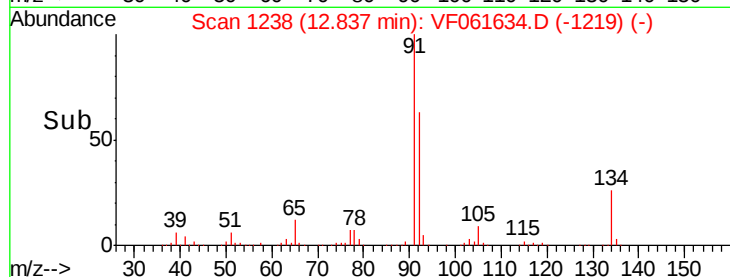
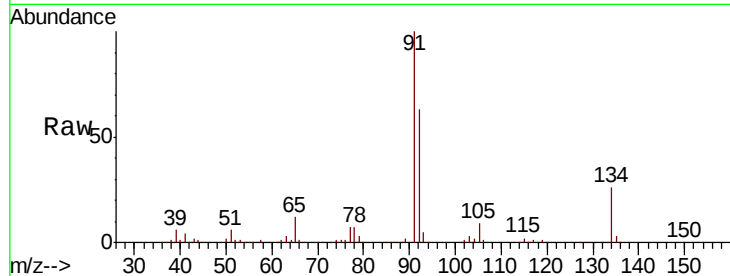
#89
n-Butylbenzene
Concen: 24.127 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	334411		
92	63.1	31.4	94.3	
134	25.8	12.3	36.9	

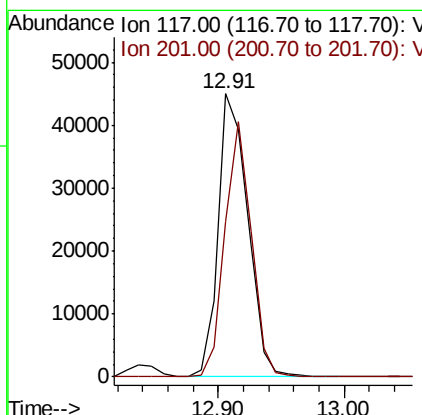
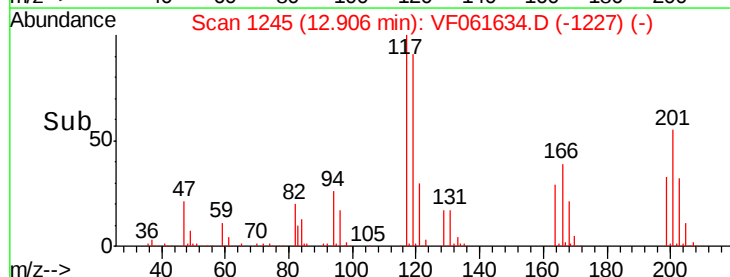
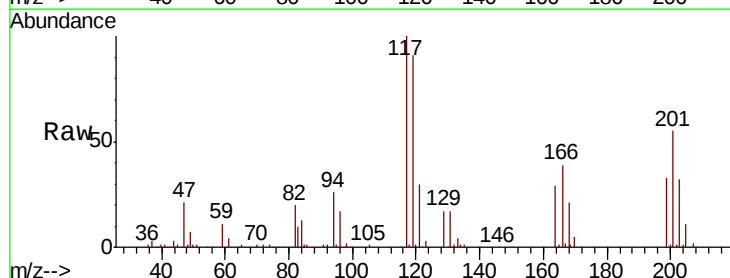
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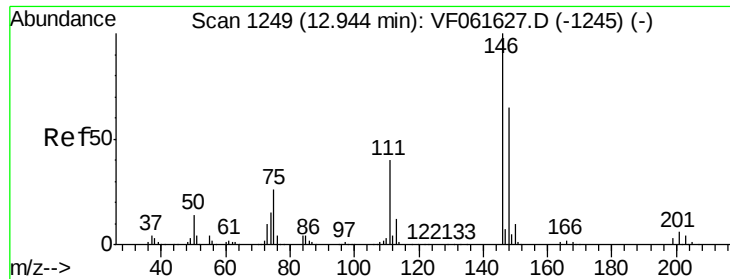
MMDadoda
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#90
Hexachloroethane
Concen: 21.514 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061634.D
Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	73442		
201	54.7	36.2	108.6	





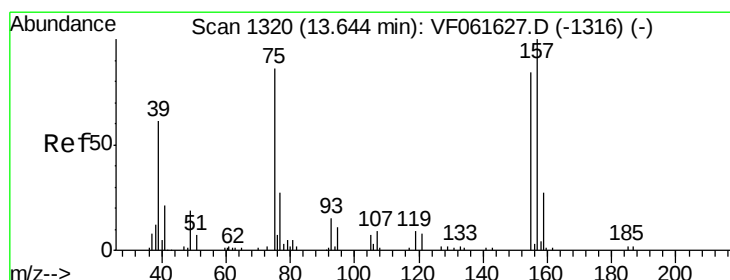
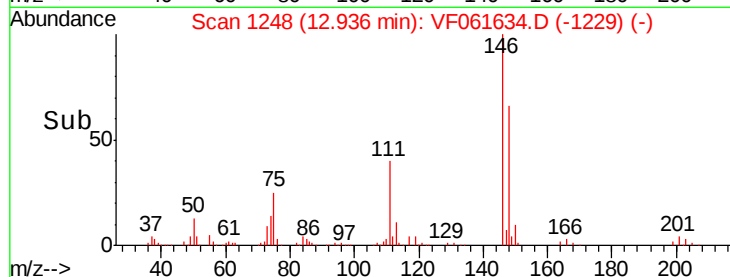
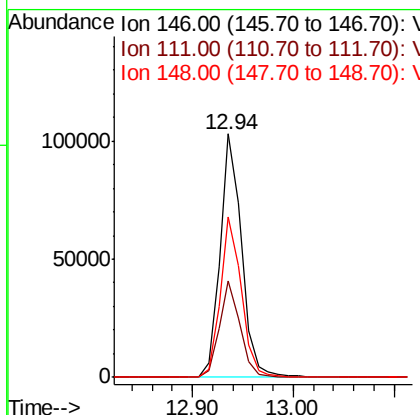
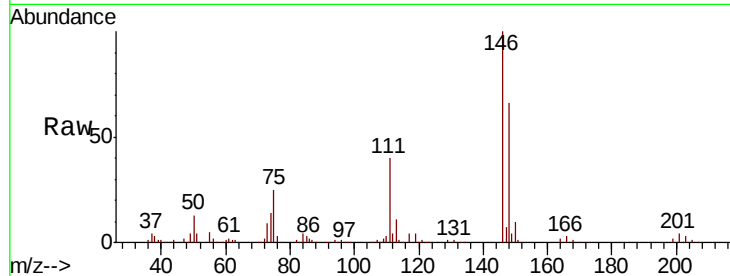
#91
 1,2-Dichlorobenzene
 Concen: 21.979 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	153827		
111	39.6	20.2	60.5	
148	65.7	32.3	96.9	

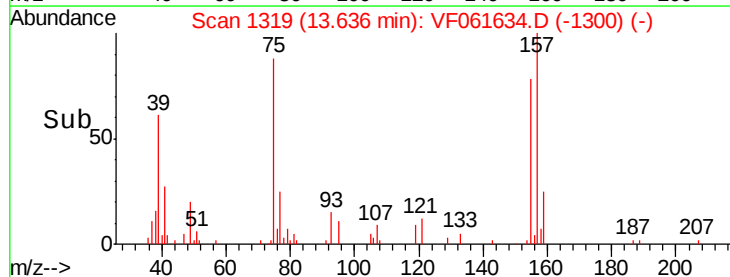
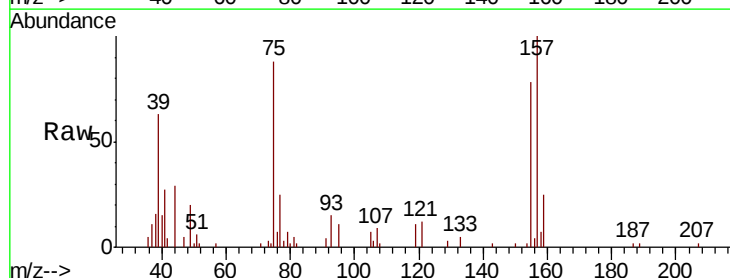
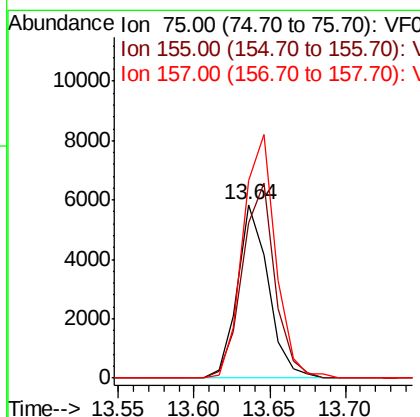
Manual Integrations
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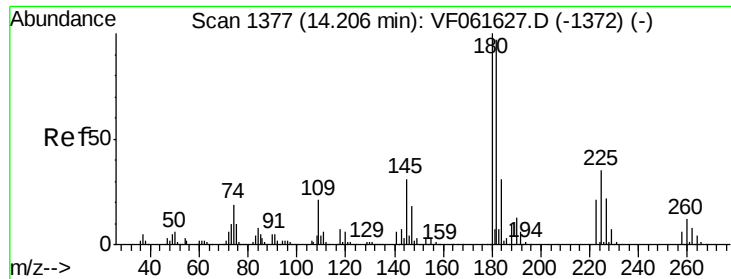
MMDadoda
 2/18/2019 12:11:35 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.195 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8330		
155	89.3	48.9	146.8	
157	114.2	58.3	174.8	





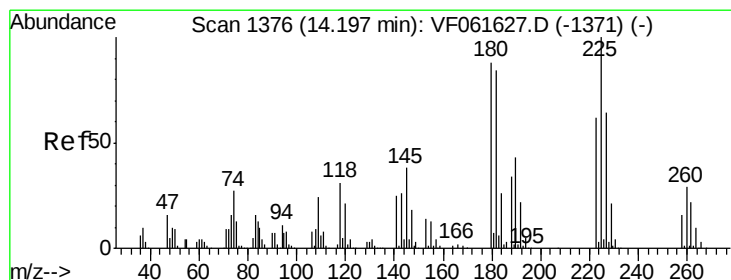
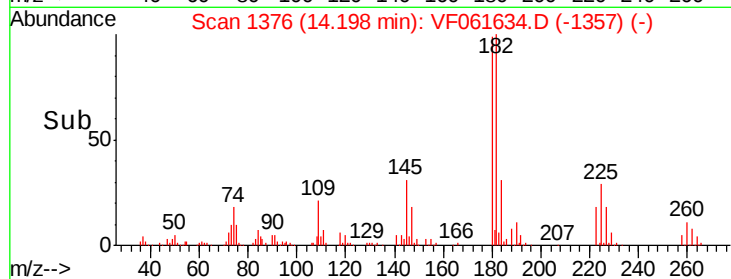
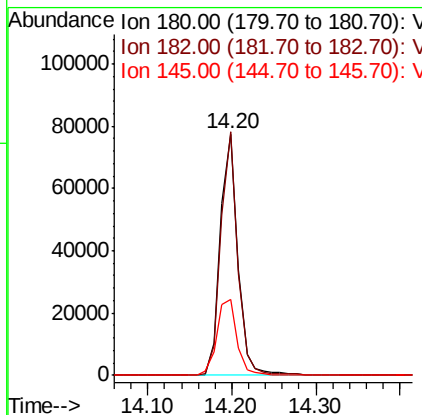
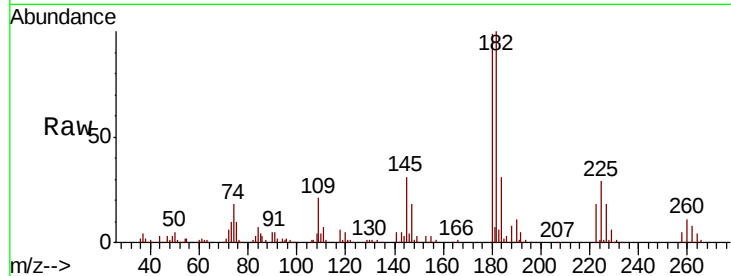
#93
 1,2,4-Trichlorobenzene
 Concen: 22.484 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	112794		
182	101.0	48.6	145.9	
145	31.3	15.3	45.9	

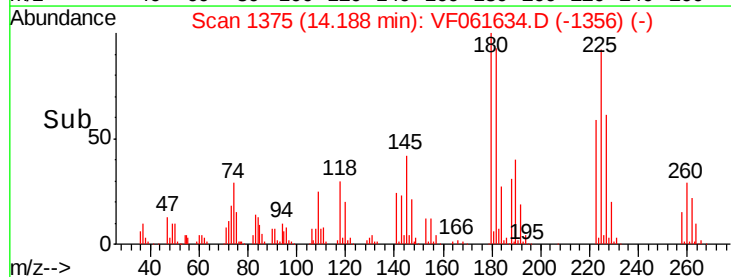
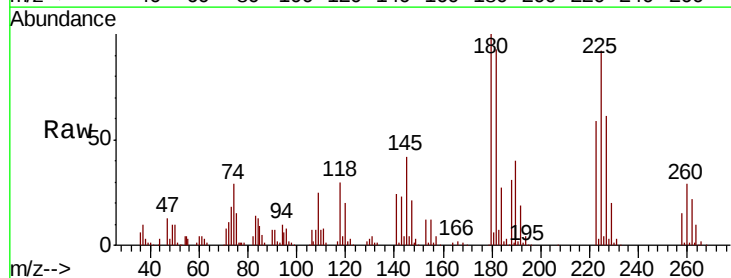
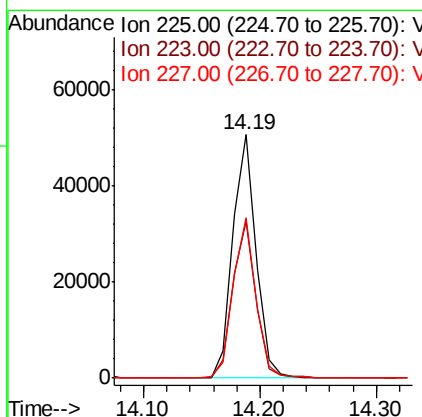
Manual Integrations
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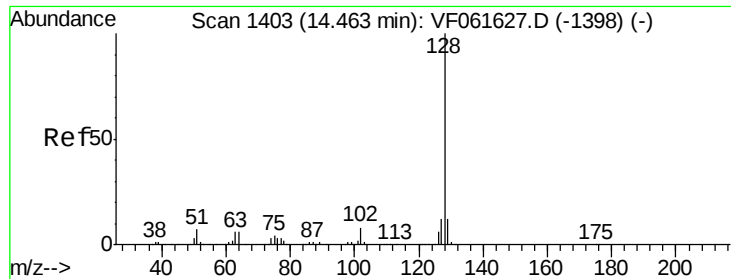
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#94
 Hexachlorobutadiene
 Concen: 22.781 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061634.D
 Acq: 14 Feb 2019 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70580		
223	64.2	30.9	92.7	
227	65.9	32.1	96.3	





#95

Naphthalene

Concen: 19.823 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Instrument :

MSVOA_F

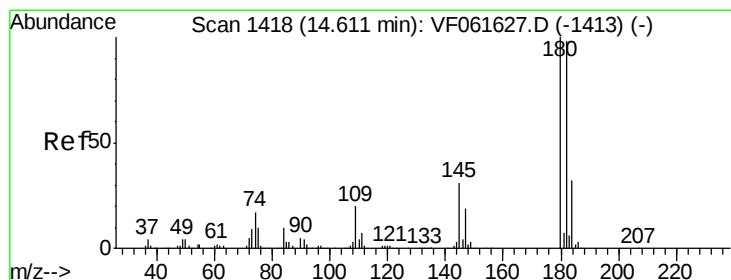
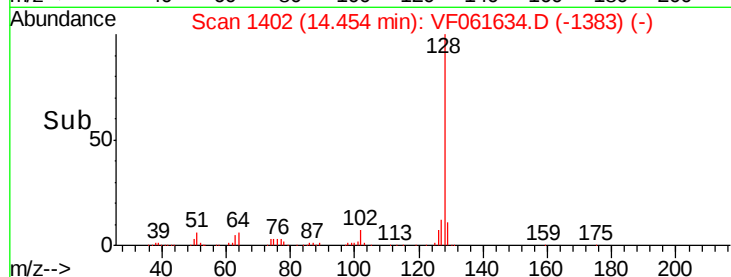
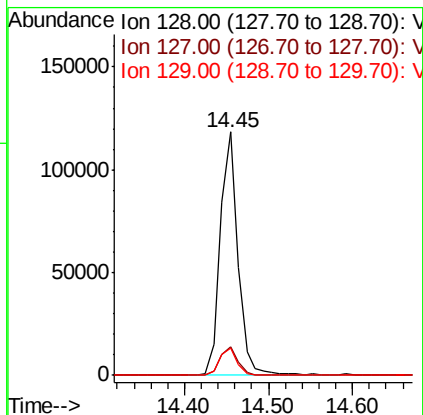
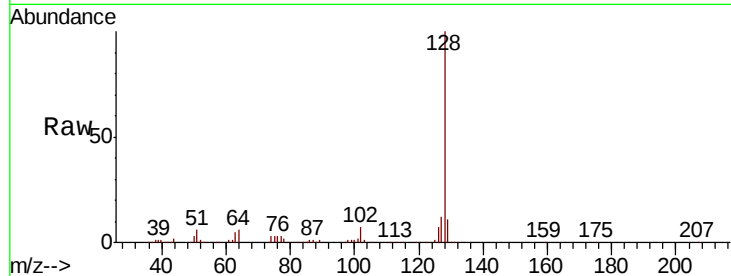
ClientSampleId :

VF0214SBS01

Tgt Ion:	128	Resp:	173986
Ion Ratio	Lower	Upper	
128	100		
127	11.8	9.8	14.6
129	11.0	9.4	14.2

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 21.592 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061634.D

Acq: 14 Feb 2019 12:13

Tgt Ion:	180	Resp:	99421
Ion Ratio	Lower	Upper	
180	100		
182	97.8	49.0	147.2
145	29.7	15.4	46.1

