

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021319\
 Data File : VF061625.D
 Acq On : 13 Feb 2019 16:36
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 2/14/2019 12:41:48 PM

Quant Time: Feb 14 03:22:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:03:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	297686	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	450972	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	394109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	224217	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	20568	5.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.10%	
35) Dibromofluoromethane	4.13	113	33742	9.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.02%	
50) Toluene-d8	7.57	98	90919	9.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.76%	
62) 4-Bromofluorobenzene	11.42	95	39308	9.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.34%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	0.96	85	38282	7.329	ug/l	99
3) Chloromethane	1.09	50	38516	9.415	ug/l	98
4) Vinyl Chloride	1.14	62	35952	10.111	ug/l	98
5) Bromomethane	1.33	94	25171	9.524	ug/l	92
6) Chloroethane	1.39	64	16917	10.216	ug/l	98
7) Trichlorofluoromethane	1.50	101	42468	6.803	ug/l	94
8) Diethyl Ether	1.63	74	9683	9.907	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	31453	9.332	ug/l	98
10) Methyl Iodide	1.91	142	54985m	9.888	ug/l	
11) Tert butyl alcohol	2.57	59	5572	35.502	ug/l #	73
12) 1,1-Dichloroethene	1.79	96	25338	9.202	ug/l	96
13) Acrolein	2.01	56	7088m	40.748	ug/l	
14) Allyl chloride	2.11	41	31911	7.973	ug/l	93
15) Acrylonitrile	2.95	53	21085	48.837	ug/l	89
16) Acetone	2.24	43	25355	45.526	ug/l	96
17) Carbon Disulfide	1.83	76	82677m	9.853	ug/l	
18) Methyl Acetate	2.35	43	10876	9.139	ug/l	97
19) Methyl tert-butyl Ether	2.44	73	43840	7.819	ug/l	99
20) Methylene Chloride	2.19	84	32510m	9.939	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	28263	9.936	ug/l	94
22) Diisopropyl ether	2.81	45	75913	8.285	ug/l	97
23) Vinyl Acetate	3.20	43	182548	40.648	ug/l	98
24) 1,1-Dichloroethane	2.88	63	45318	8.188	ug/l	99
25) 2-Butanone	4.36	43	47636	42.007	ug/l	99
26) 2,2-Dichloropropane	3.61	77	19473	7.221	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	38431	9.509	ug/l	97
28) Bromochloromethane	3.73	49	21964	7.982	ug/l	98
29) Tetrahydrofuran	4.09	42	24192	45.543	ug/l	94
30) Chloroform	3.87	83	50862	6.785	ug/l	95
31) Cyclohexane	3.70	56	50193	9.134	ug/l #	95
32) 1,1,1-Trichloroethane	4.11	97	34108	6.744	ug/l	97
36) 1,1-Dichloropropene	4.30	75	44667	8.869	ug/l	94
37) Ethyl Acetate	4.13	43	20454	9.237	ug/l	91
38) Carbon Tetrachloride	4.01	117	32571	7.907	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	51450	10.059	ug/l	97
40) Benzene	4.64	78	112181	9.939	ug/l	97
41) Methacrylonitrile	4.76	41	9267	8.351	ug/l #	91
42) 1,2-Dichloroethane	4.96	62	26338	6.745	ug/l	98
43) Isopropyl Acetate	6.98	43	23270	9.257	ug/l #	93
44) Trichloroethene	5.52	130	38335	11.120	ug/l	97
45) 1,2-Dichloropropane	6.25	63	27759	9.534	ug/l	95
46) Dibromomethane	6.10	93	16574	8.715	ug/l	94
47) Bromodichloromethane	6.40	83	35953	7.493	ug/l	99
48) Methyl methacrylate	6.73	41	13341	7.944	ug/l	95
49) 1,4-Dioxane	6.72	88	2823	239.475	ug/l #	81
51) 4-Methyl-2-Pentanone	8.27	43	86214	45.600	ug/l	98
52) Toluene	7.63	92	71028	10.079	ug/l	95
53) t-1,3-Dichloropropene	8.29	75	31685	8.533	ug/l	97
54) cis-1,3-Dichloropropene	7.31	75	39434	8.379	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	19859	9.109	ug/l	92
56) Ethyl methacrylate	8.63	69	22857	9.457	ug/l	98
57) 1,3-Dichloropropane	8.86	76	33397	8.800	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	18914	46.391	ug/l	97
59) 2-Hexanone	9.50	43	62609	48.890	ug/l	99
60) Dibromochloromethane	8.73	129	25761	8.505	ug/l	93
61) 1,2-Dibromoethane	9.00	107	21206	9.327	ug/l	95
64) Tetrachloroethene	8.17	164	33643	11.282	ug/l	94
65) Chlorobenzene	9.81	112	79917	10.426	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.95	131	31402	9.933	ug/l	96
67) Ethyl Benzene	9.91	91	134074	9.607	ug/l	100
68) m/p-Xylenes	10.14	106	103254	21.326	ug/l	99
69) o-Xylene	10.73	106	51828	9.706	ug/l	93
70) Styrene	10.79	104	78507	10.617	ug/l	97
71) Bromoform	10.78	173	16668	11.139	ug/l #	96
73) Isopropylbenzene	11.13	105	158991	9.174	ug/l	98
74) N-amyl acetate	11.38	43	35860	8.218	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	27034	8.357	ug/l	96
76) 1,2,3-Trichloropropane	11.80	75	18614	8.099	ug/l	98
77) Bromobenzene	11.50	156	39213	10.284	ug/l	94
78) n-propylbenzene	11.60	91	185248	8.899	ug/l	96
79) 2-Chlorotoluene	11.73	91	102617	8.657	ug/l	93
80) 1,3,5-Trimethylbenzene	11.83	105	127149	8.893	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.88	75	8798m	9.157	ug/l	
82) 4-Chlorotoluene	11.91	91	111970	9.092	ug/l	95
83) tert-Butylbenzene	12.14	119	141008	9.592	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	127200	9.063	ug/l	96
85) sec-Butylbenzene	12.31	105	180054	9.165	ug/l	95
86) p-Isopropyltoluene	12.47	119	161345	10.041	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	81774	11.035	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	75335	10.685	ug/l	98
89) n-Butylbenzene	12.85	91	143100	8.793	ug/l	96
90) Hexachloroethane	12.92	117	33315	8.175	ug/l	90
91) 1,2-Dichlorobenzene	12.95	146	74636	10.813	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	3959	7.058	ug/l	63

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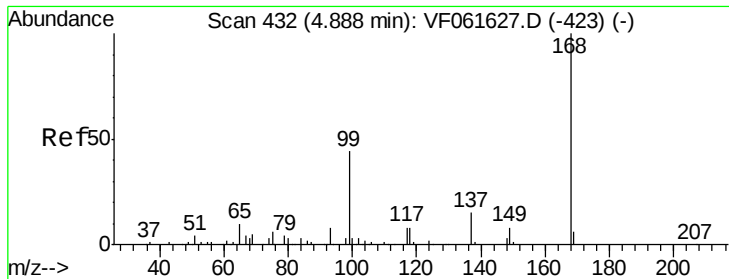
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	52058	10.741	ug/l	99
94) Hexachlorobutadiene	14.20	225	30753	10.285	ug/l	99
95) Naphthalene	14.46	128	83288	9.089	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	45332	10.412	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 297686

Ion Ratio Lower Upper

168 100

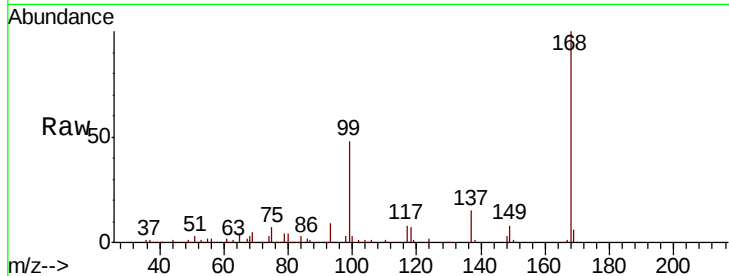
99 48.0 34.9 52.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

60000

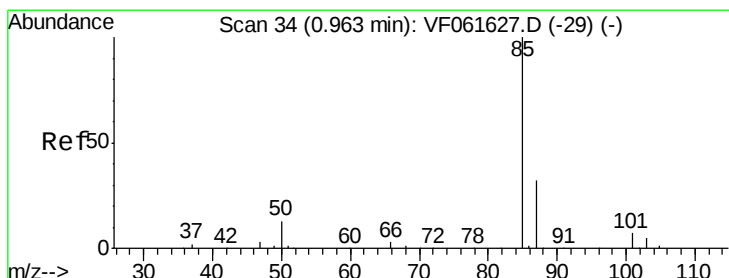
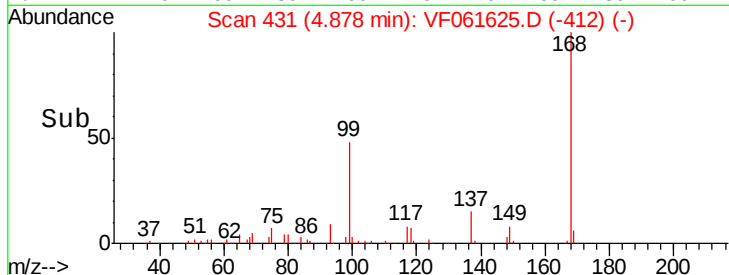
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 7.329 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061625.D

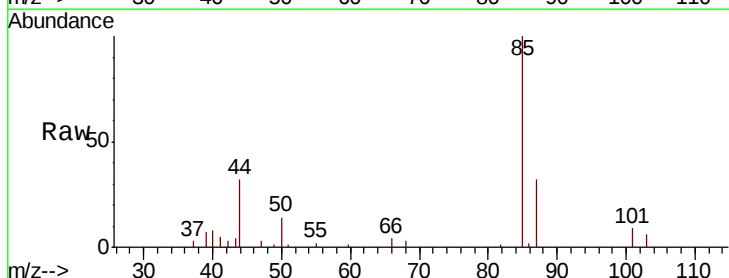
Acq: 13 Feb 2019 16:36

Tgt Ion: 85 Resp: 38282

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

12000

10000

8000

6000

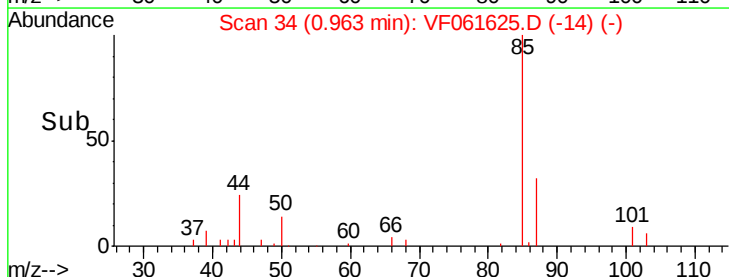
4000

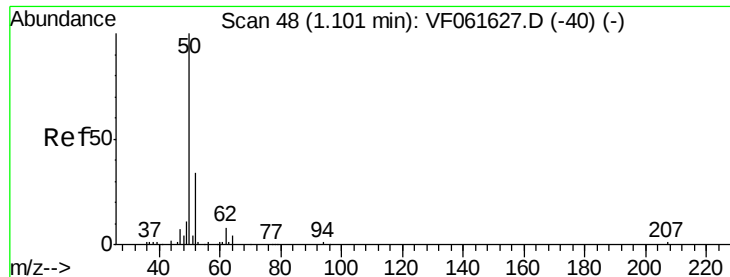
2000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 9.415 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 38516

Ion Ratio Lower Upper

50 100

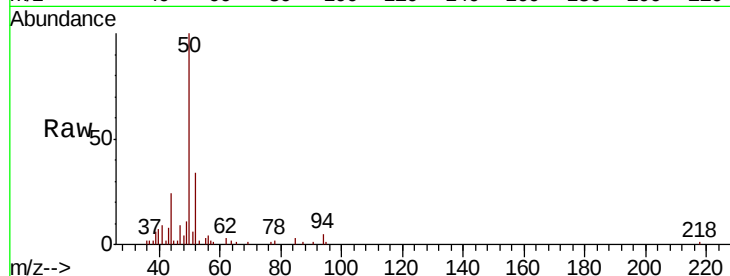
52 33.8 26.2 39.4

Manual Integrations

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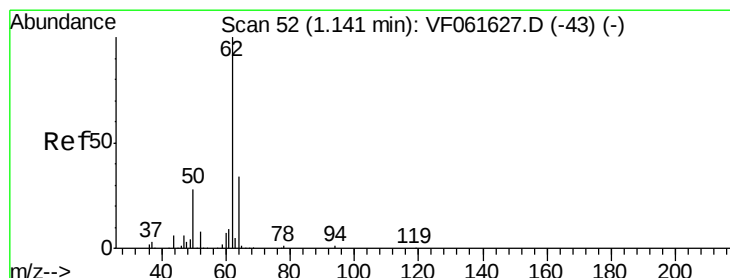
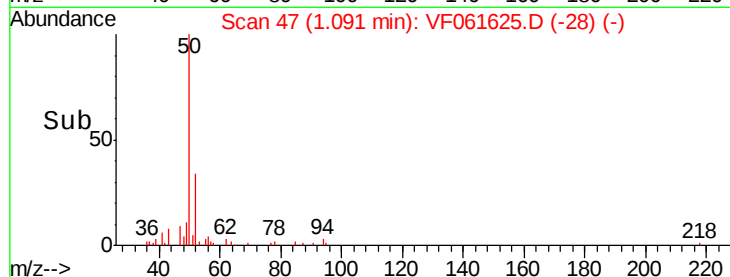
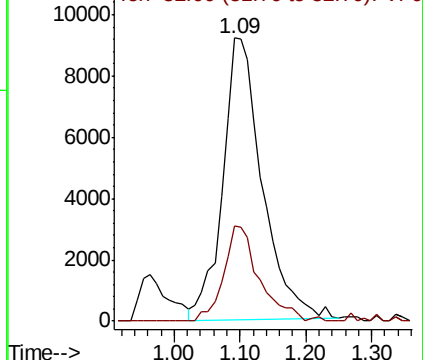
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 10.111 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061625.D

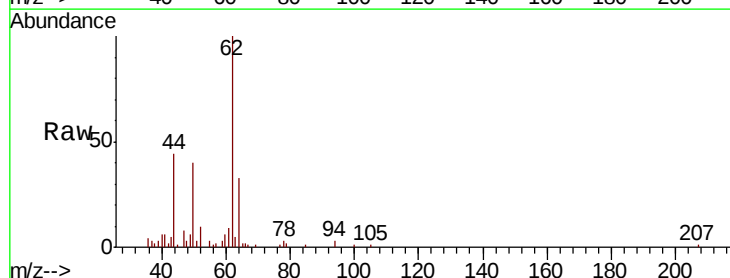
Acq: 13 Feb 2019 16:36

Tgt Ion: 62 Resp: 35952

Ion Ratio Lower Upper

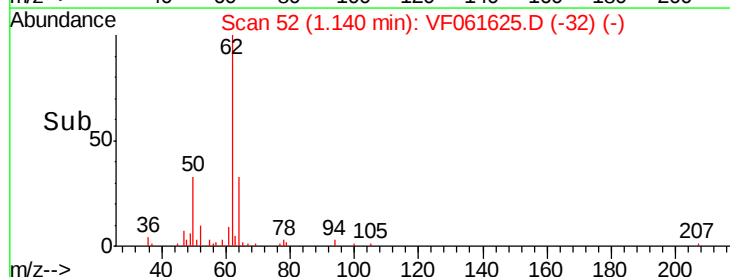
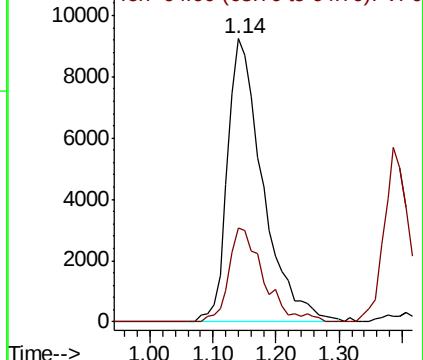
62 100

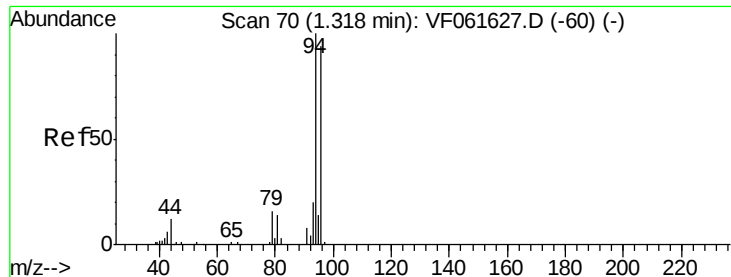
64 33.3 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 9.524 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 25171

Ion Ratio Lower Upper

94 100

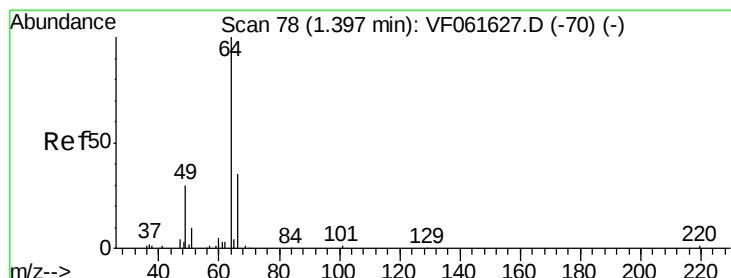
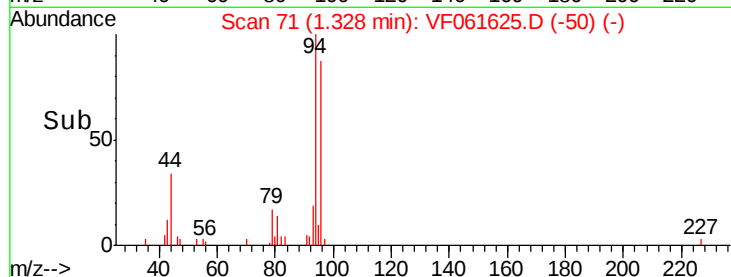
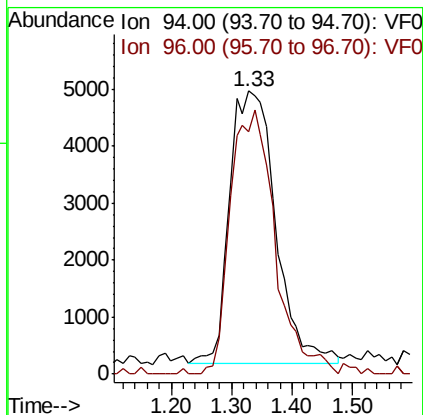
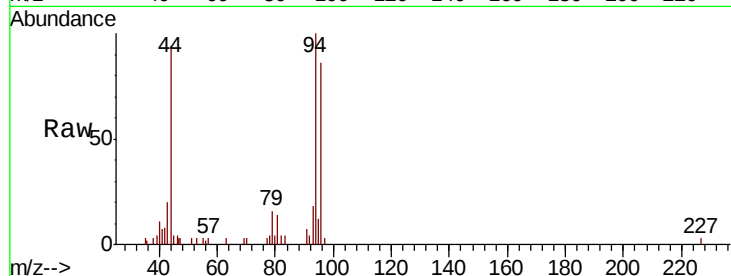
96 85.6 74.6 112.0

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#6

Chloroethane

Concen: 10.216 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061625.D

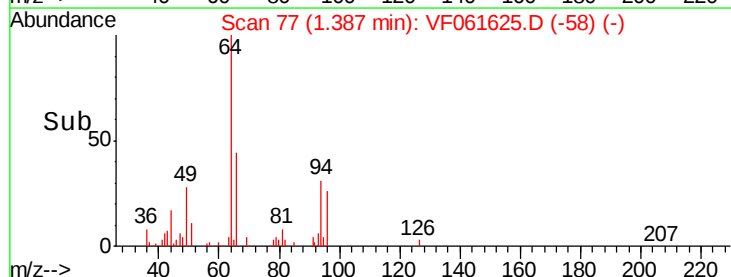
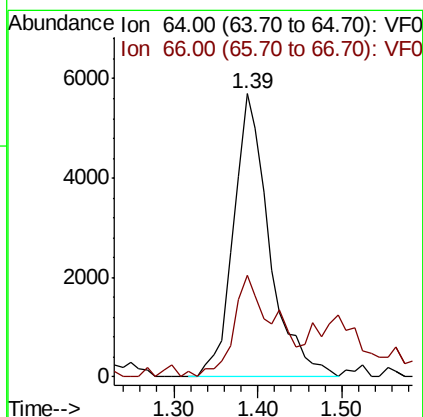
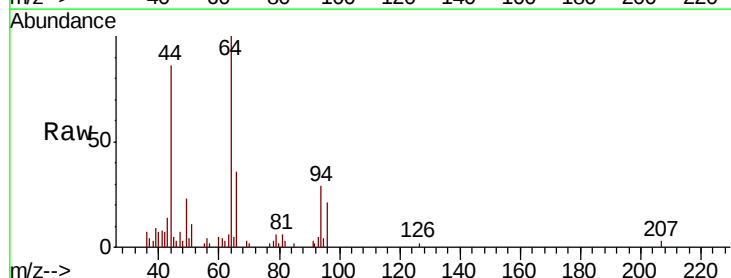
Acq: 13 Feb 2019 16:36

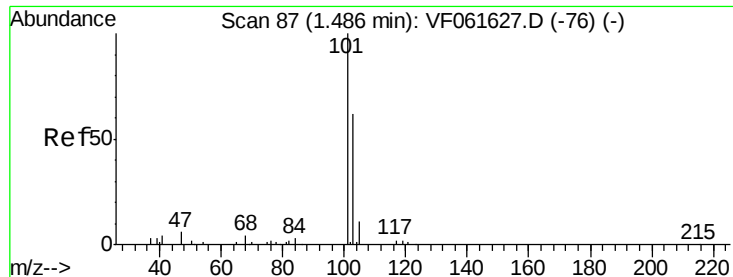
Tgt Ion: 64 Resp: 16917

Ion Ratio Lower Upper

64 100

66 35.9 27.9 41.9





#7

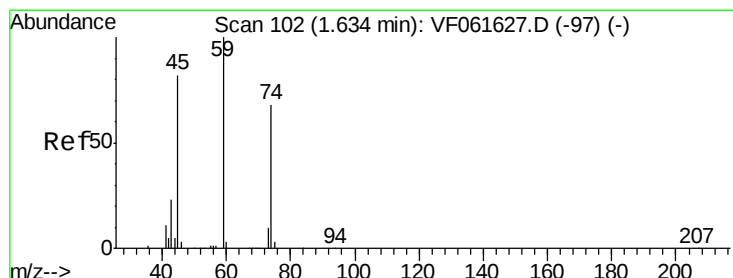
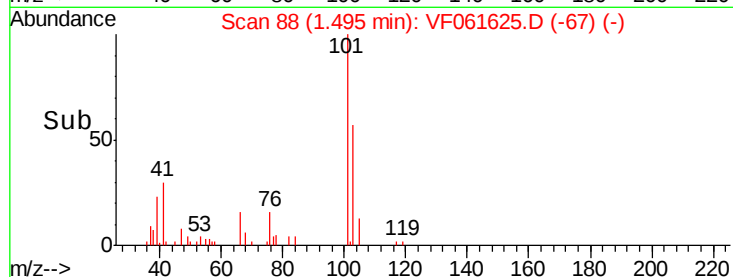
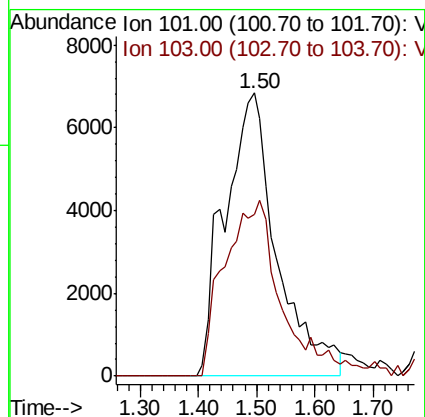
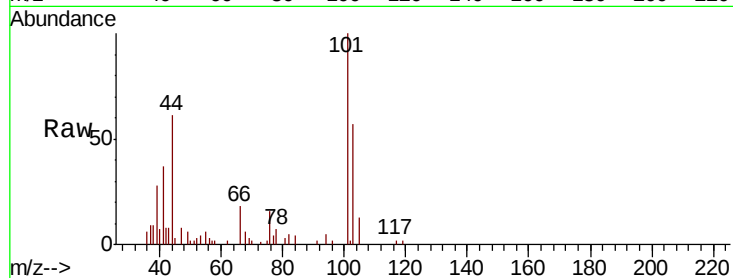
Trichlorofluoromethane
Concen: 6.803 ug/l
RT: 1.50 min Scan# 88
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

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Tot Ion	Ratio	Lower	Upper
101	100		
103	57.2	49.3	73.9

Manual Integrations
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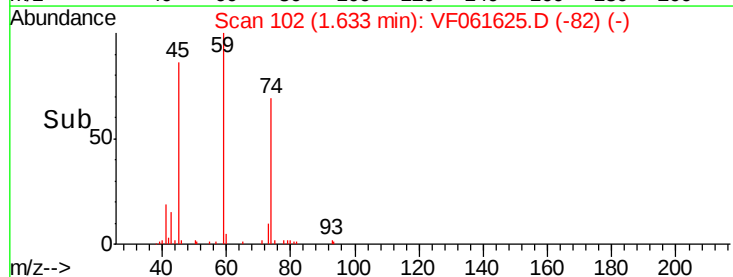
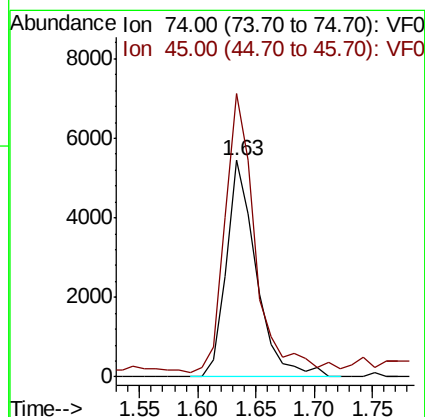
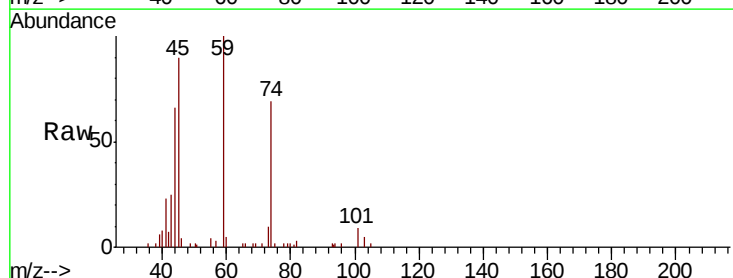
MMDadoda
2/14/2019 12:41:48 PM

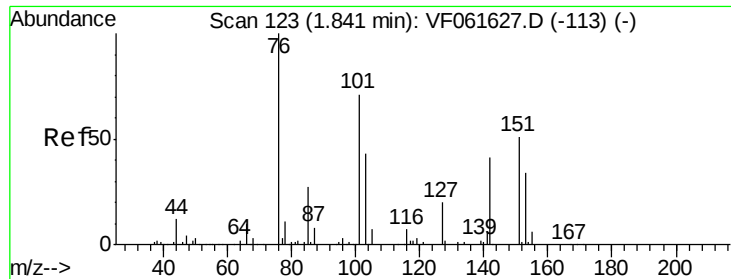


#8

Diethyl Ether
Concen: 9.907 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.8	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.332 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061625.D

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Instrument :

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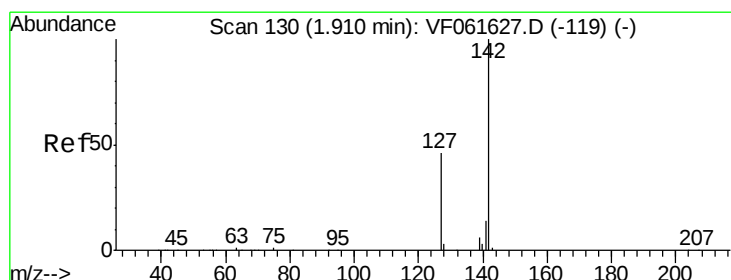
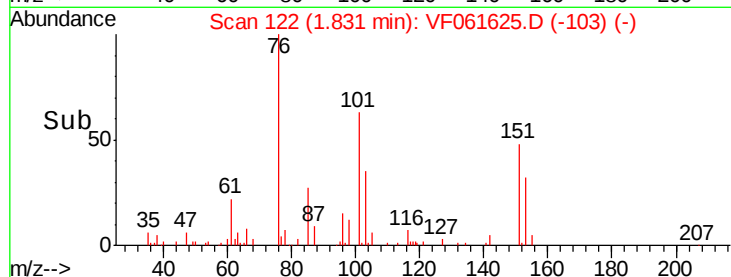
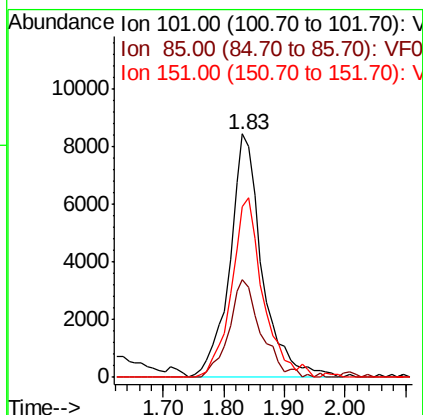
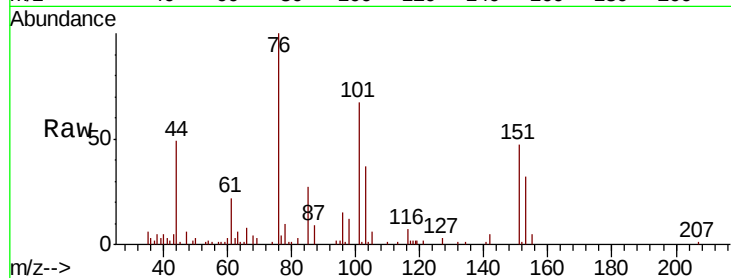
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	31453
Ion Ratio	Lower	Upper	
101	100		
85	40.4	29.8	44.6
151	70.3	56.3	84.5

Manual Integrations
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2/14/2019 12:41:48 PM



#10

Methyl Iodide

Concen: 9.888 ug/l m

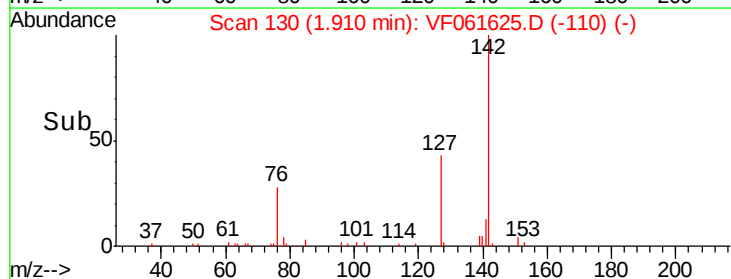
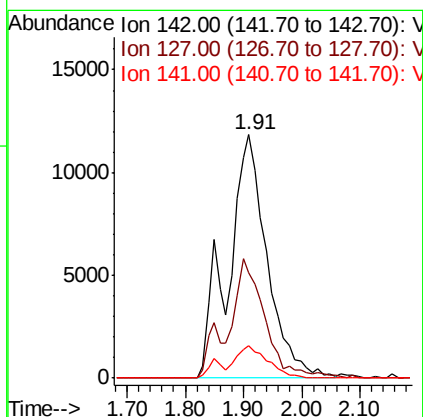
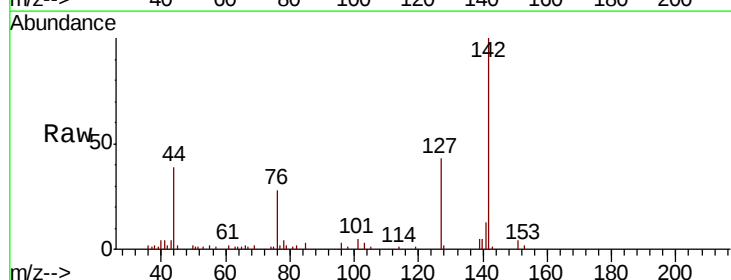
RT: 1.91 min Scan# 130

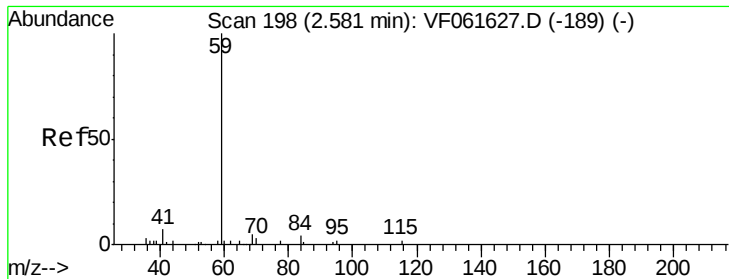
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	142	Resp:	54985
Ion Ratio	Lower	Upper	
142	100		
127	43.1	36.6	55.0
141	13.5	11.0	16.6





#11

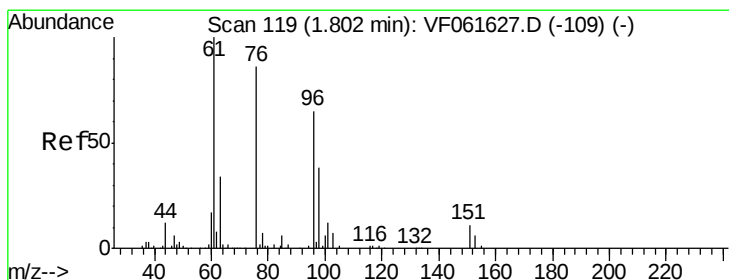
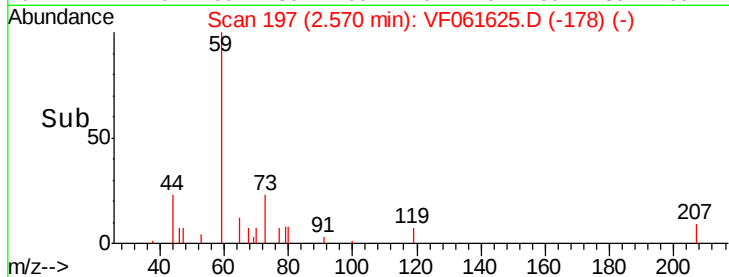
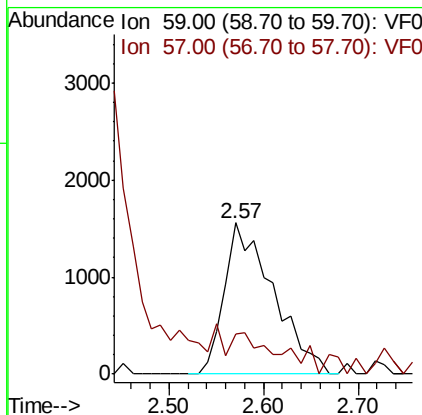
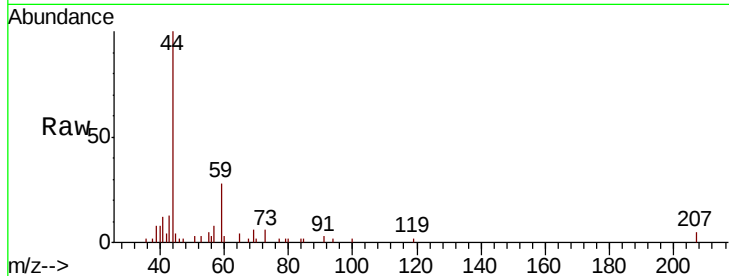
Tert butyl alcohol
Concen: 35.502 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 59 Resp: 5572
Ion Ratio Lower Upper
59 100
57 26.9 12.5 18.7#

Manual Integrations
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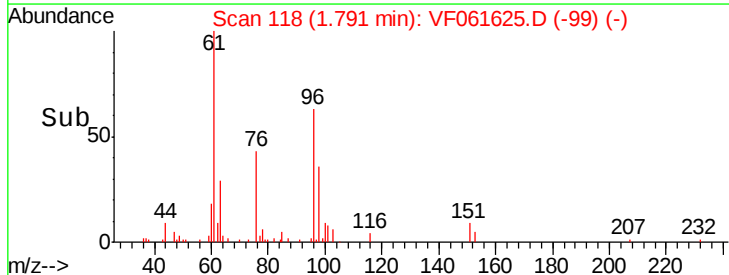
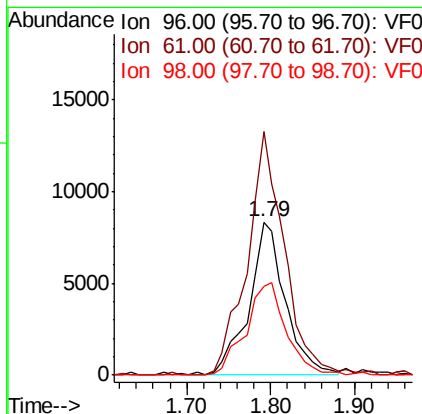
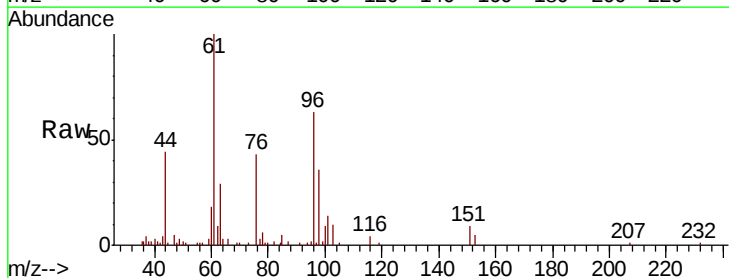
MMDadoda
2/14/2019 12:41:48 PM

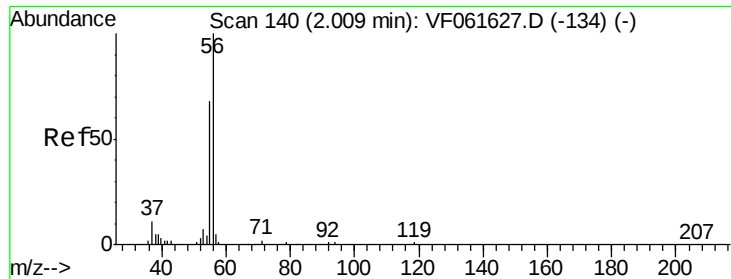


#12

1,1-Dichloroethene
Concen: 9.202 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion: 96 Resp: 25338
Ion Ratio Lower Upper
96 100
61 159.1 122.6 184.0
98 57.8 47.2 70.8





#13

Acrolein

Concen: 40.748 ug/l m

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 7088

Ion Ratio Lower Upper

56 100

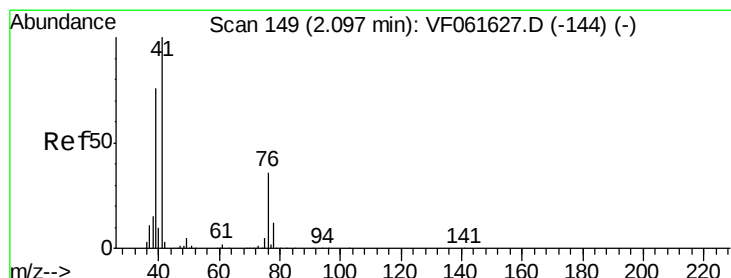
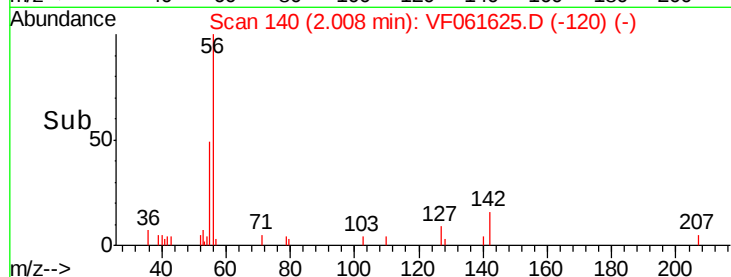
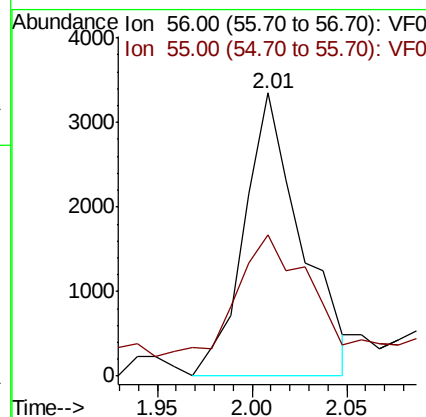
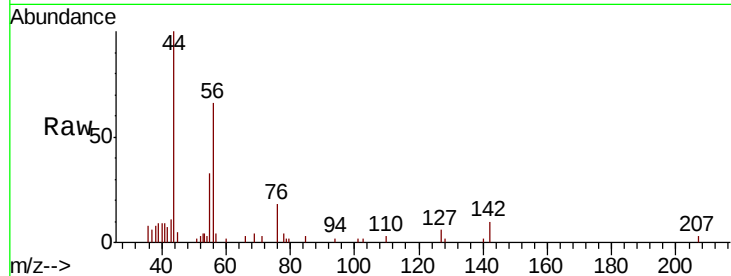
55 49.7 55.0 82.6#

Manual Integrations

APPROVED

MMDadoda

2/14/2019 12:41:48 PM



#14

Allyl chloride

Concen: 7.973 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

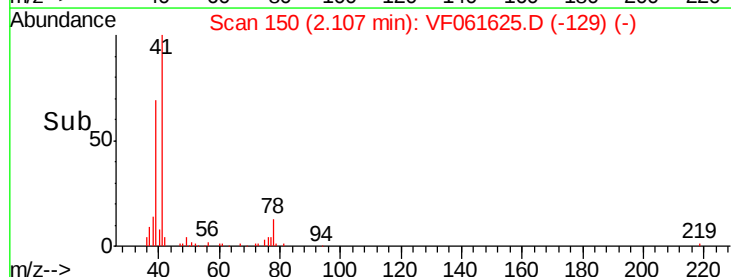
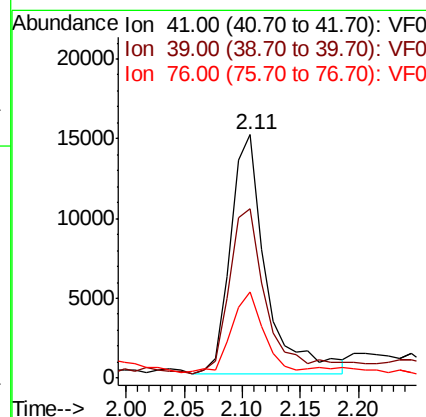
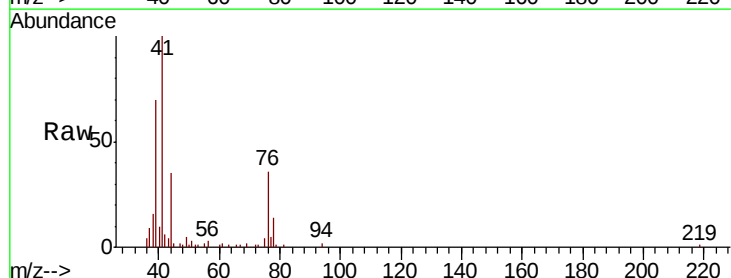
Tgt Ion: 41 Resp: 31911

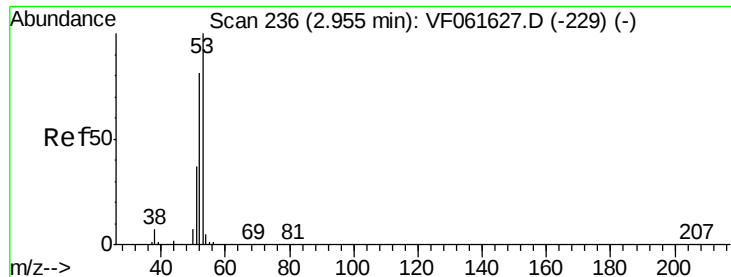
Ion Ratio Lower Upper

41 100

39 69.5 61.6 92.4

76 35.5 30.3 45.5





#15

Acrylonitrile

Concen: 48.837 ug/l

RT: 2.95 min Scan# 236

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

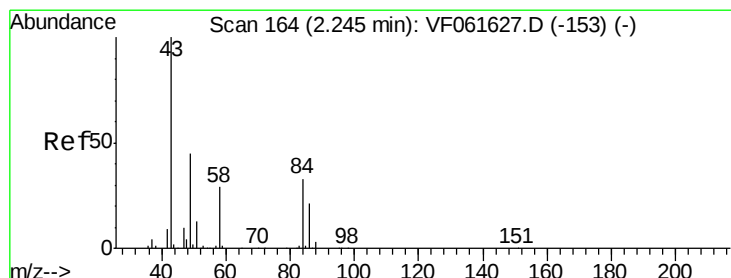
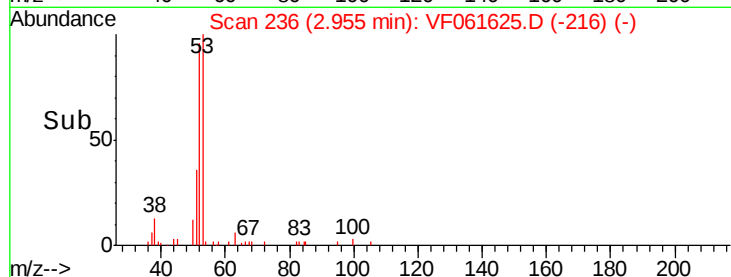
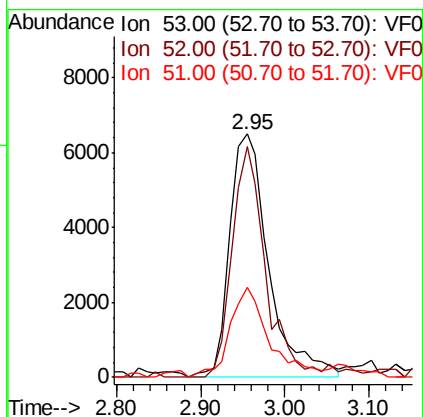
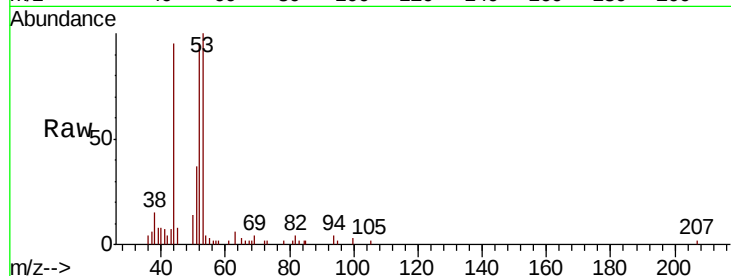
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	21085
Ion	Ratio	Lower	Upper
53	100		
52	94.6	64.6	97.0
51	36.9	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 45.526 ug/l

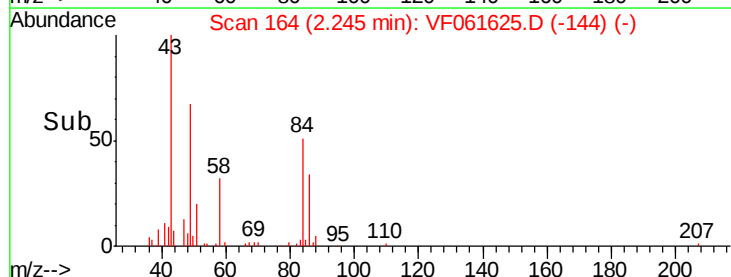
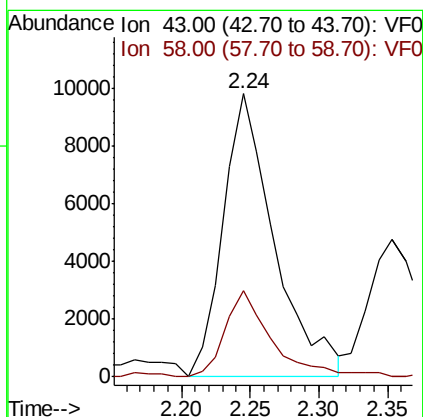
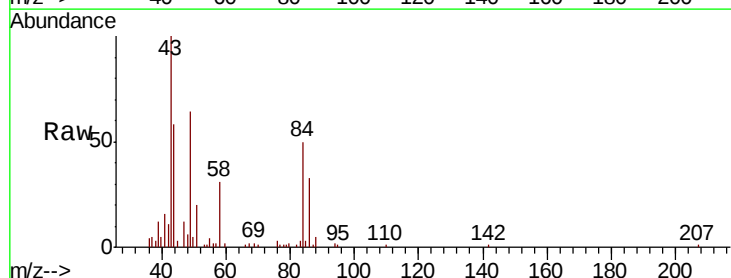
RT: 2.24 min Scan# 164

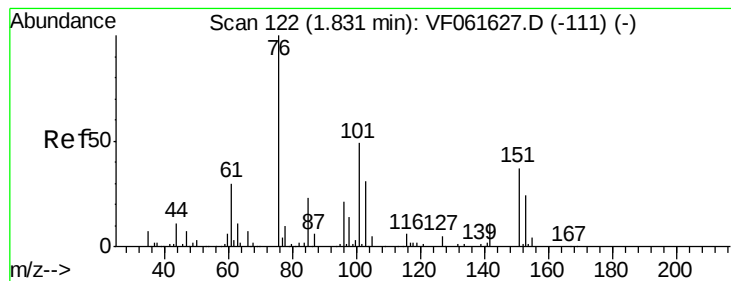
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	43	Resp:	25355
Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.9	34.3





#17

Carbon Disulfide

Concen: 9.853 ug/l m

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tot Ion: 76 Resp: 82677

Ion Ratio Lower Upper

76 100

78 9.5 7.9 11.9

Instrument :

MSVOA_F

ClientSampleId :

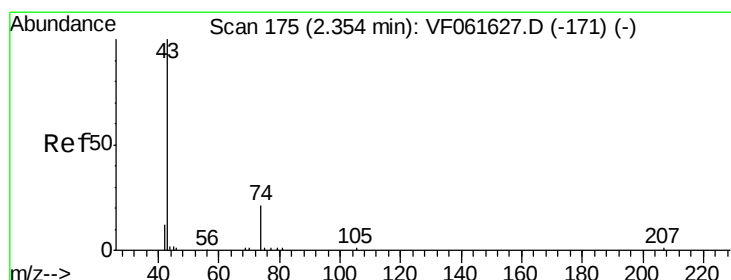
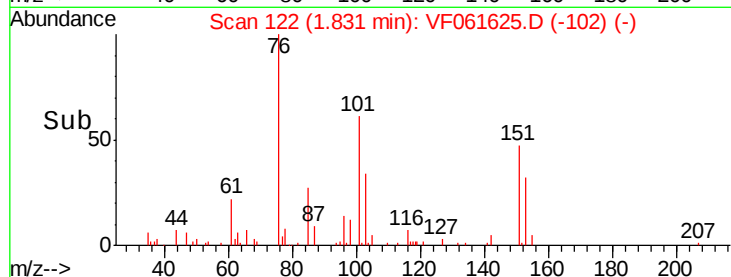
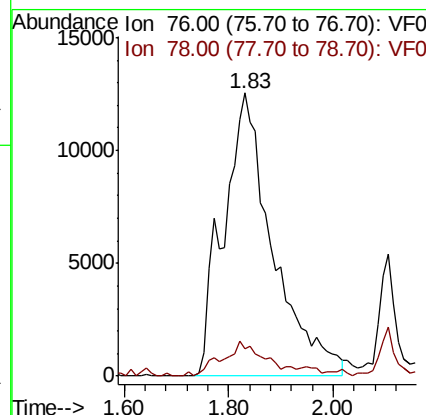
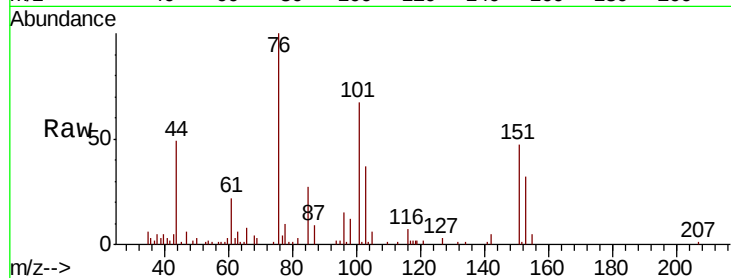
VSTDIC010

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2/14/2019 12:41:48 PM



#18

Methyl Acetate

Concen: 9.139 ug/l

RT: 2.35 min Scan# 175

Delta R.T. -0.00 min

Lab File: VF061625.D

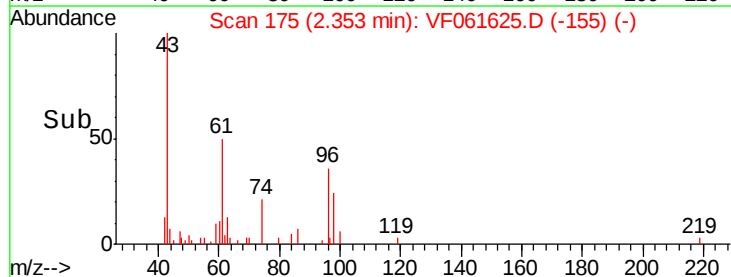
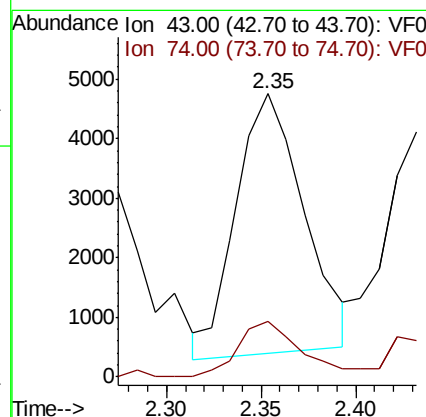
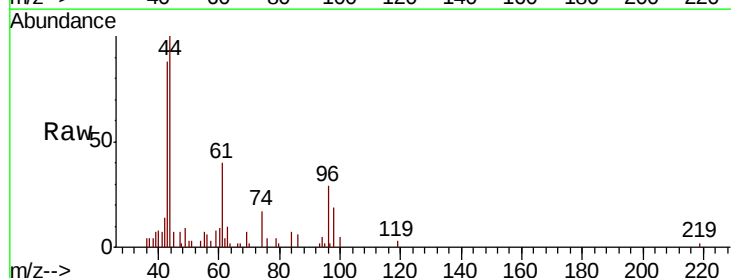
Acq: 13 Feb 2019 16:36

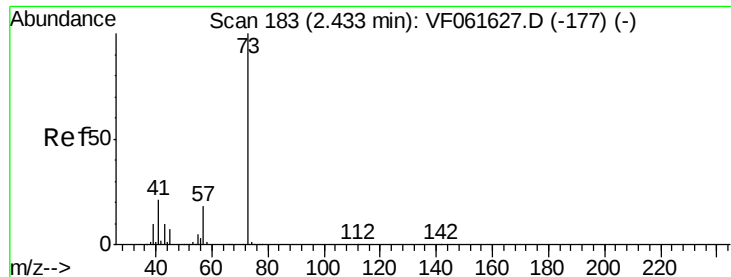
Tgt Ion: 43 Resp: 10876

Ion Ratio Lower Upper

43 100

74 19.4 14.6 21.8





#19

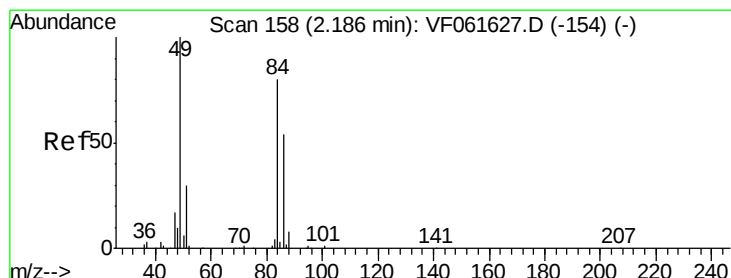
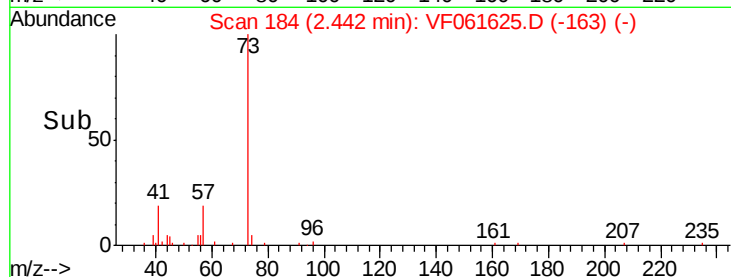
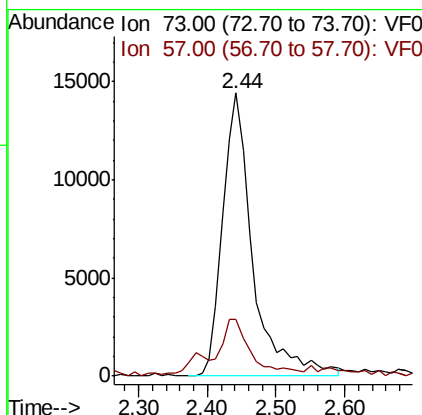
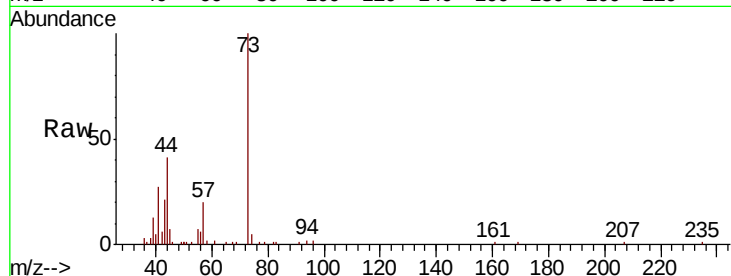
Methyl tert-butyl Ether
 Concen: 7.819 ug/l
 RT: 2.44 min Scan# 184
 Delta R.T. 0.01 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.2	15.8	23.8

Manual Integrations
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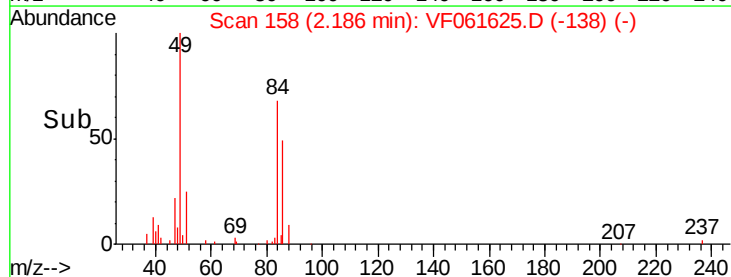
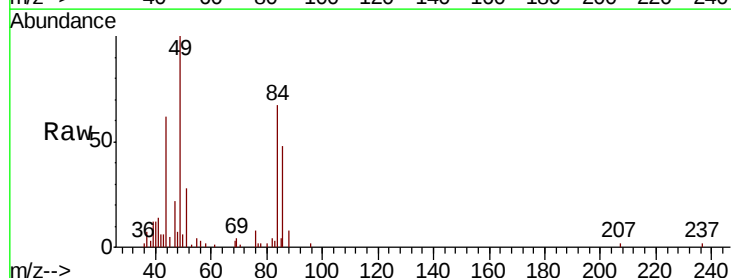
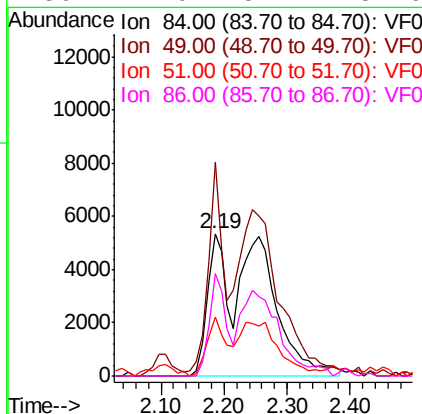
MMDadoda
 2/14/2019 12:41:48 PM

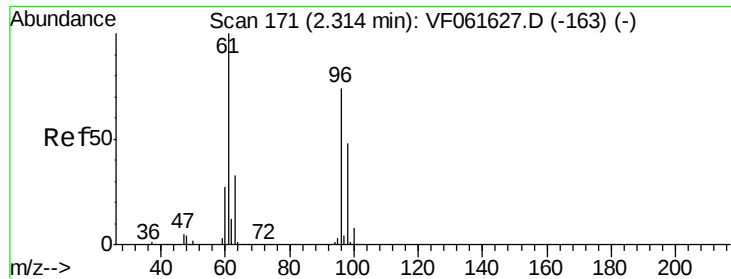


#20

Methylene Chloride
 Concen: 9.939 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
84	100		
49	150.1	101.8	152.8
51	41.8	31.1	46.7
86	72.0	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 9.936 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

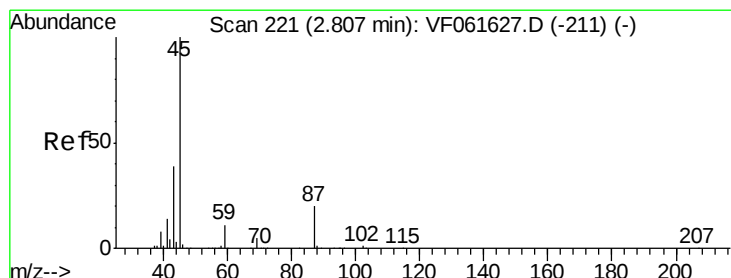
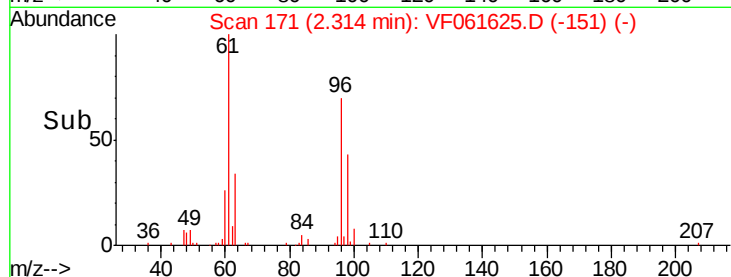
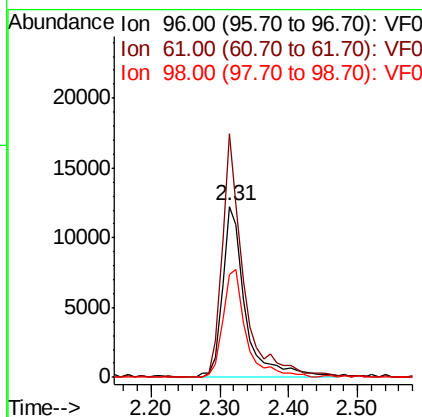
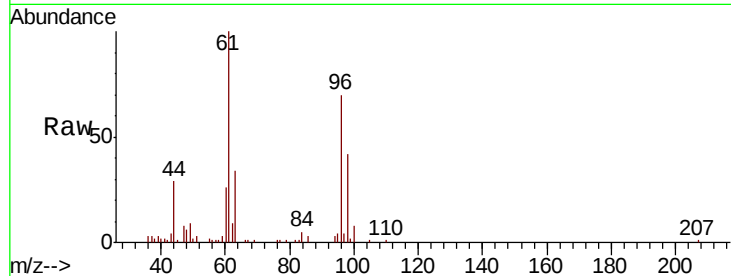
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	28263
Ion	Ratio	Lower	Upper
96	100		
61	142.2	108.2	162.4
98	59.8	52.2	78.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 8.285 ug/l

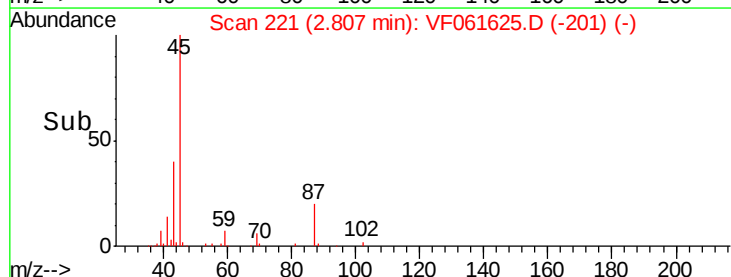
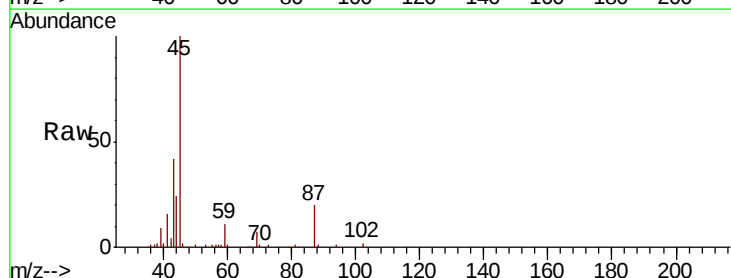
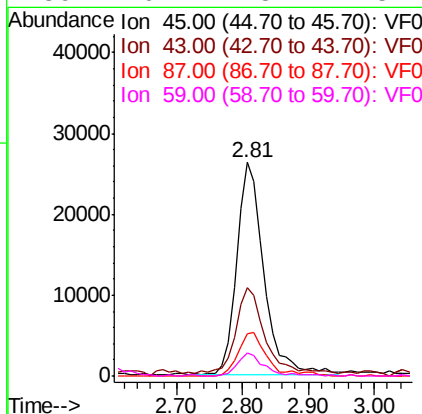
RT: 2.81 min Scan# 221

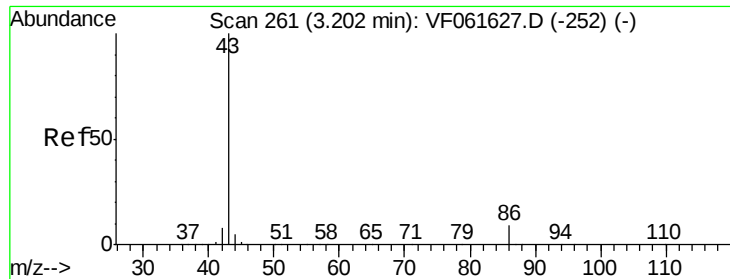
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	45	Resp:	75913
Ion	Ratio	Lower	Upper
45	100		
43	41.6	31.4	47.2
87	19.7	16.3	24.5
59	10.7	8.7	13.1





#23

Vinyl Acetate

Concen: 40.648 ug/l

RT: 3.20 min Scan# 261

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 182548

Ion Ratio Lower Upper

43 100

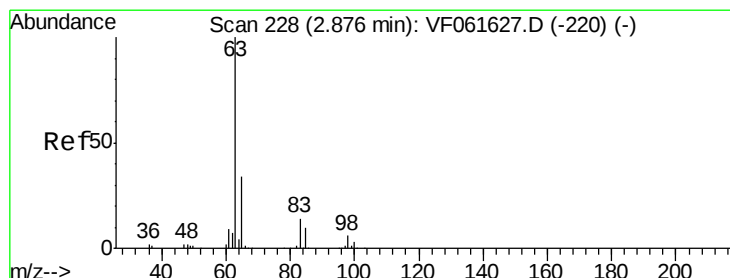
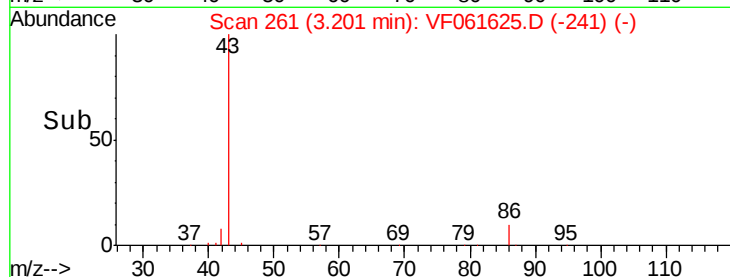
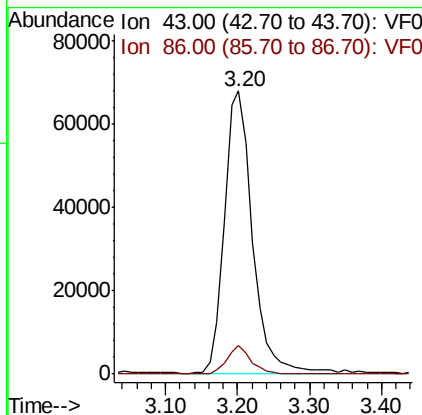
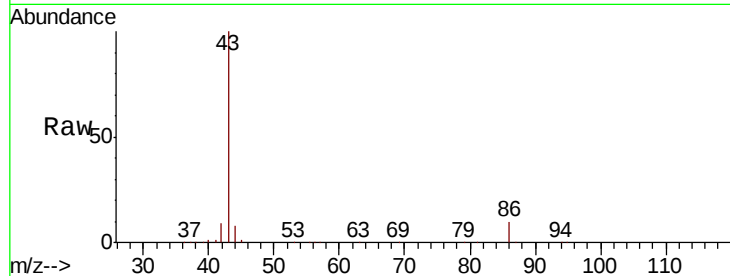
86 10.2 7.5 11.3

Manual Integrations

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2/14/2019 12:41:48 PM



#24

1,1-Dichloroethane

Concen: 8.188 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

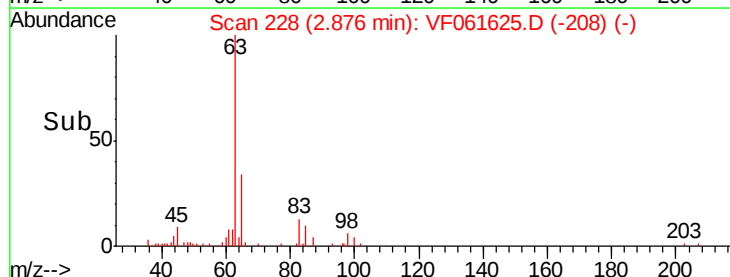
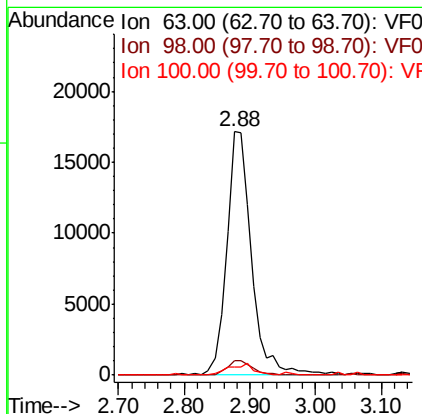
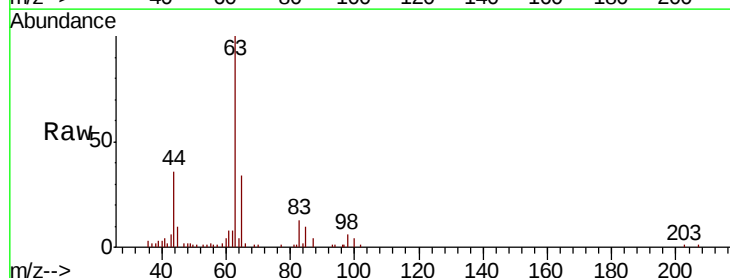
Tgt Ion: 63 Resp: 45318

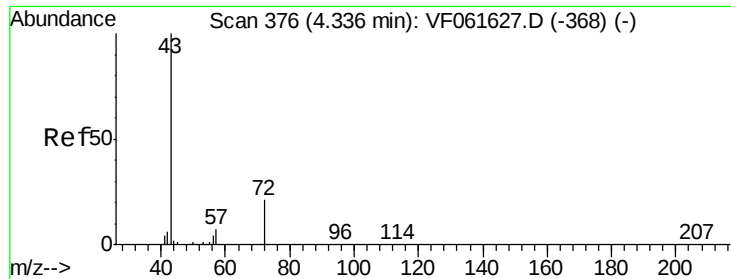
Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.3

100 3.6 1.8 5.4





#25

2-Butanone

Concen: 42.007 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 47636

Ion Ratio Lower Upper

43 100

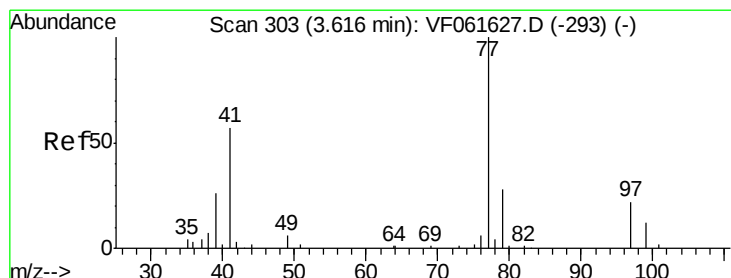
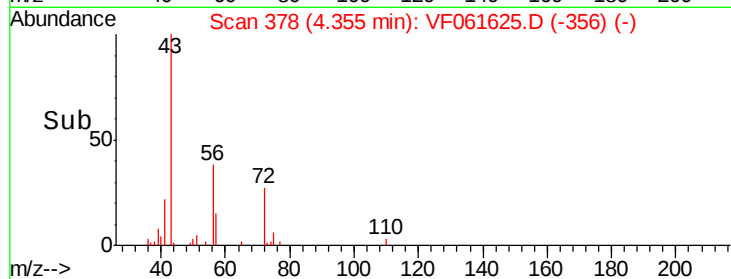
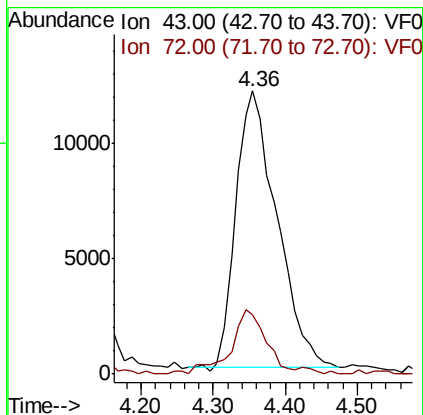
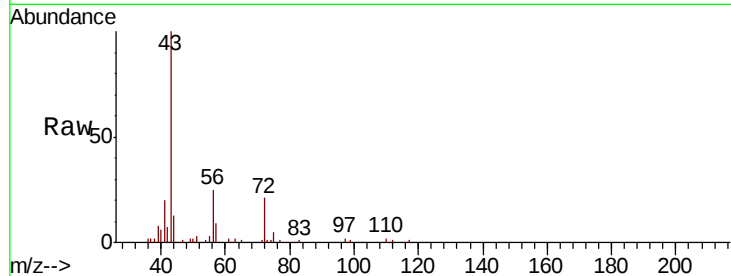
72 21.0 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/14/2019 12:41:48 PM



#26

2,2-Dichloropropane

Concen: 7.221 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF061625.D

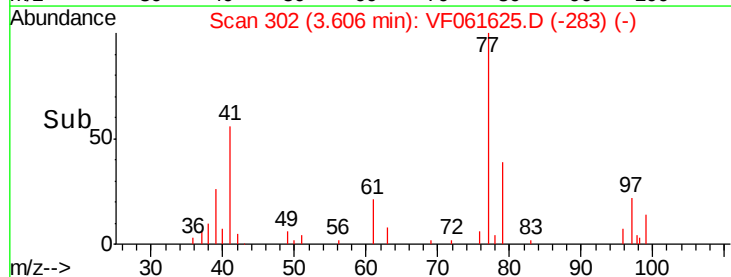
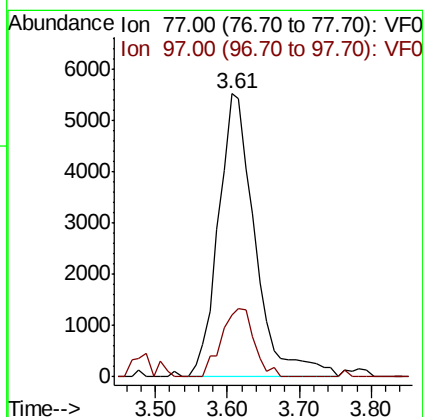
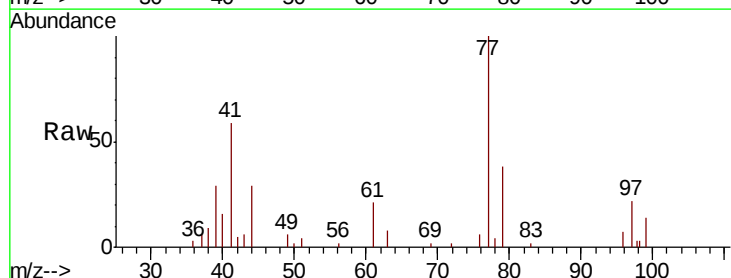
Acq: 13 Feb 2019 16:36

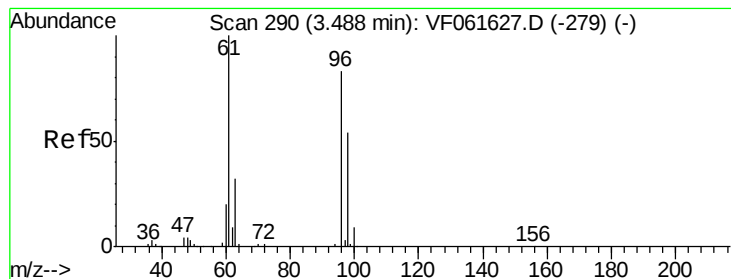
Tgt Ion: 77 Resp: 19473

Ion Ratio Lower Upper

77 100

97 21.8 11.7 35.0





#27

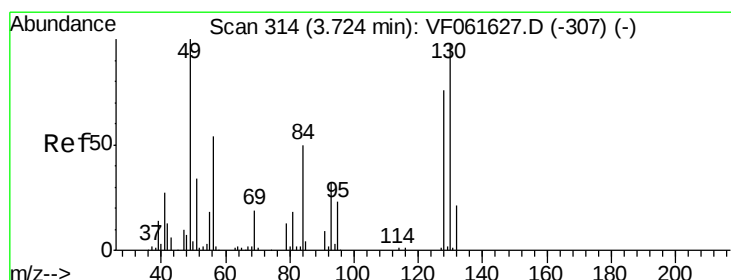
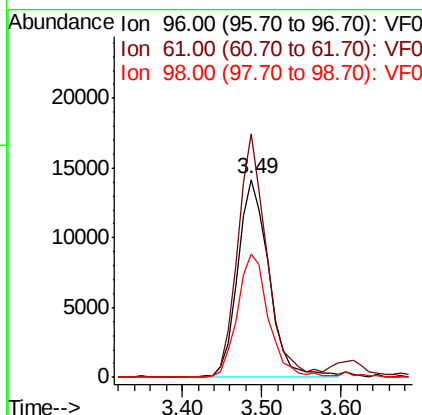
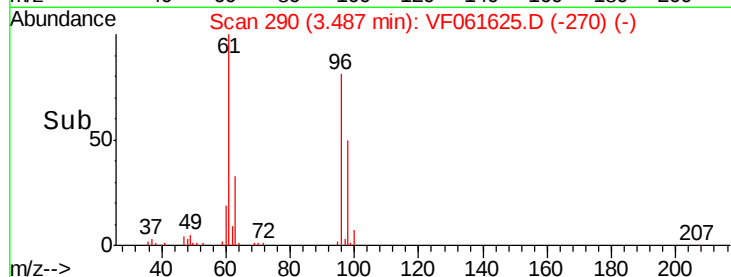
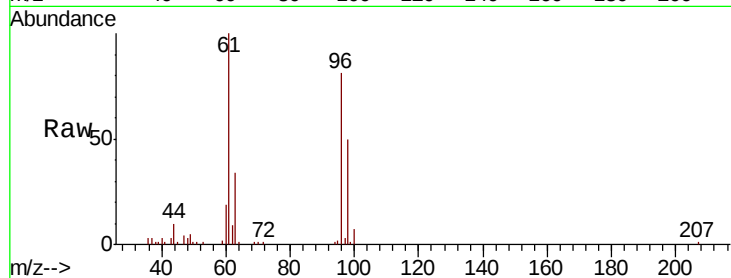
cis-1,2-Dichloroethene
Concen: 9.509 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	122.9	0.0	241.6
98	62.0	0.0	130.2

Manual Integrations
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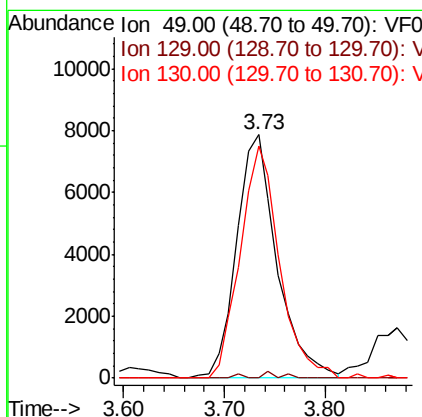
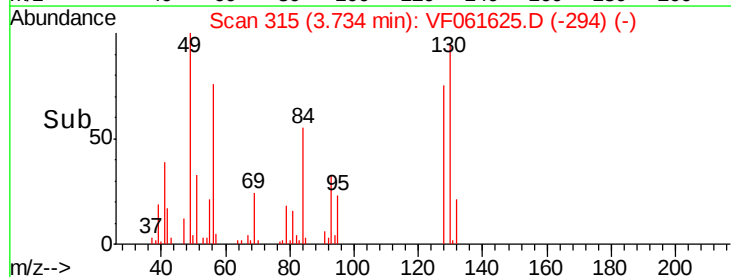
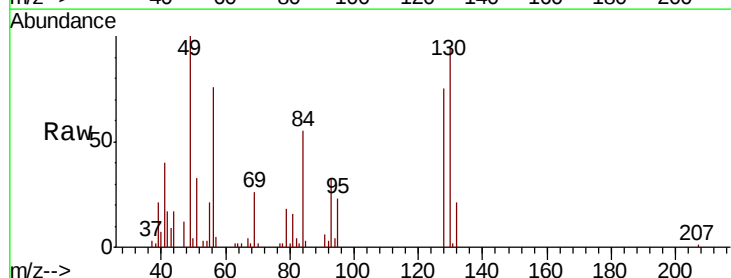
MMDadoda
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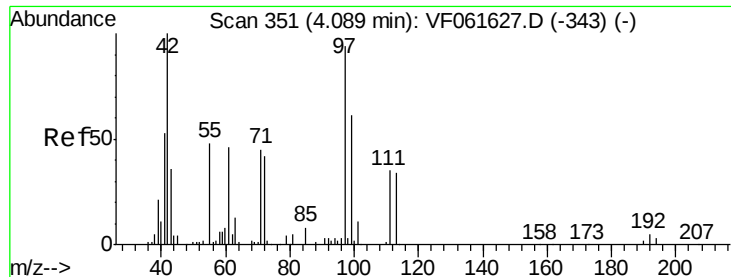


#28

Bromochloromethane
Concen: 7.982 ug/l
RT: 3.73 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	95.3	77.7	116.5





#29

Tetrahydrofuran

Concen: 45.543 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

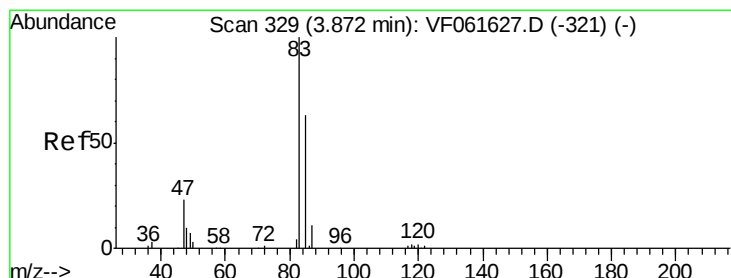
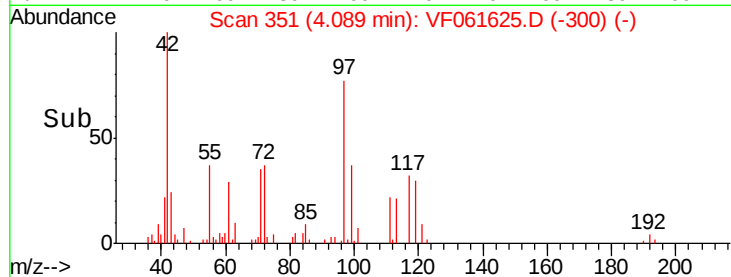
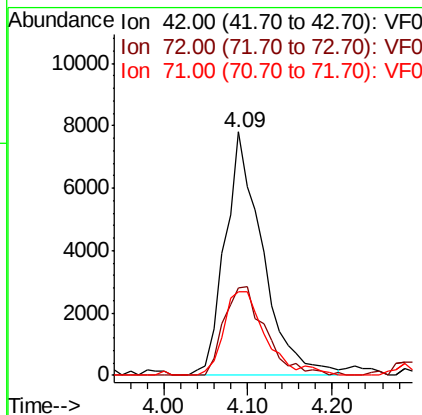
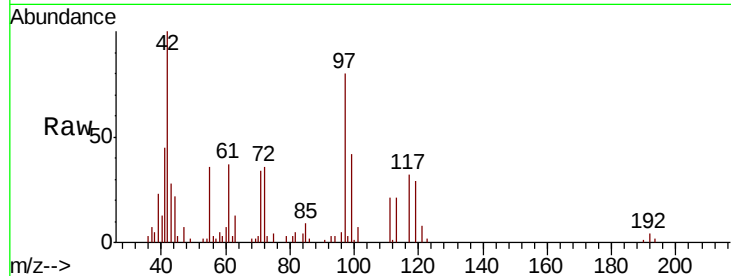
ClientSampleId :

VSTDIC010

Tot Ion:	42	Resp:	24192
Ion Ratio		Lower	Upper
42	100		
72	40.4	35.2	52.8
71	36.6	32.9	49.3

Manual Integrations
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#30

Chloroform

Concen: 6.785 ug/l

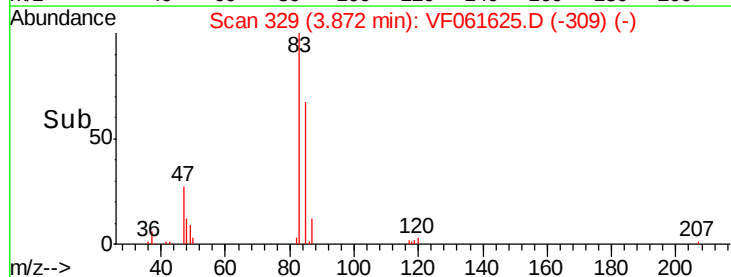
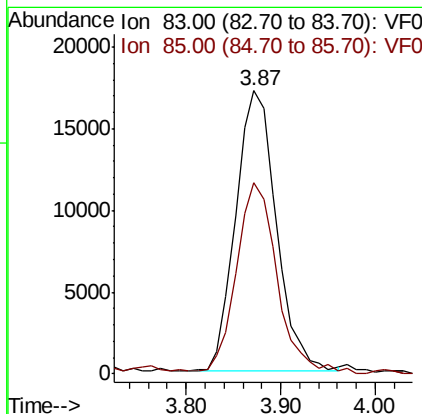
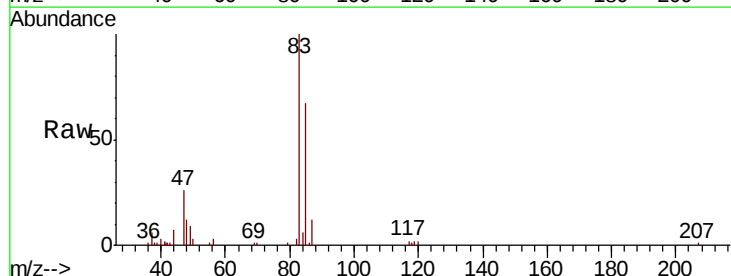
RT: 3.87 min Scan# 329

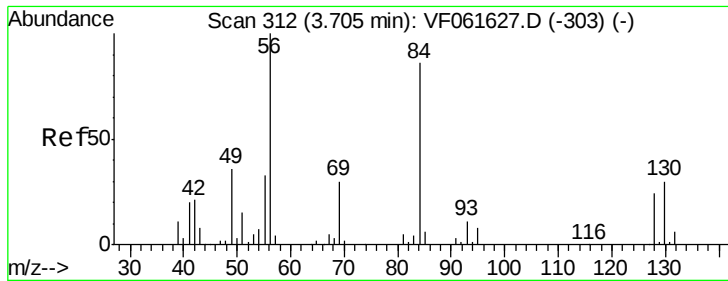
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	83	Resp:	50862
Ion Ratio		Lower	Upper
83	100		
85	67.5	51.1	76.7





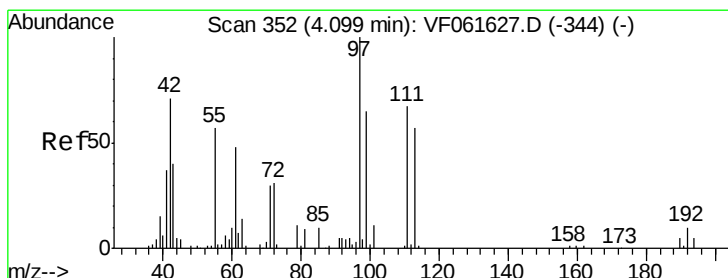
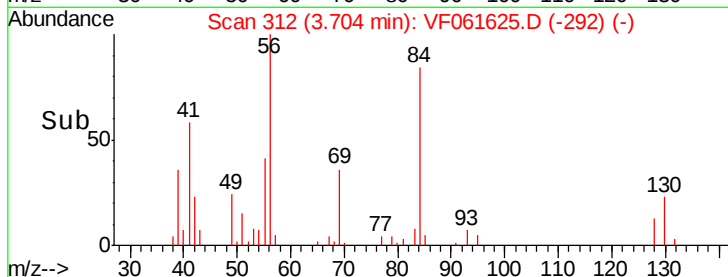
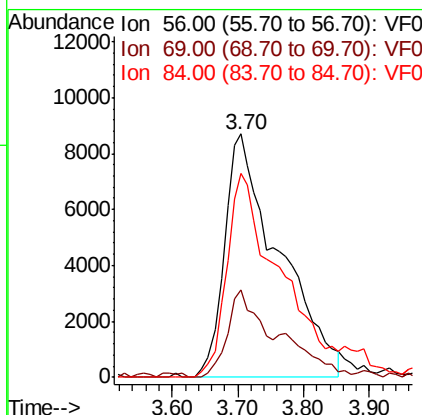
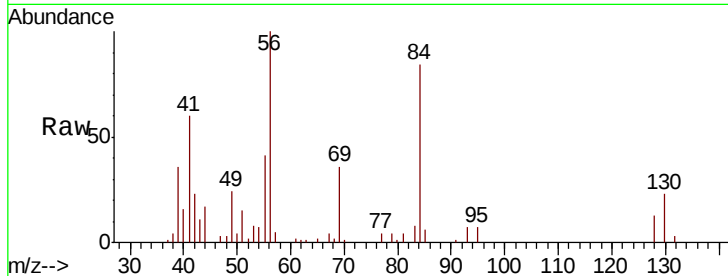
#31
Cyclohexane
Concen: 9.134 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.1	23.8	35.8#
84	83.8	68.6	103.0

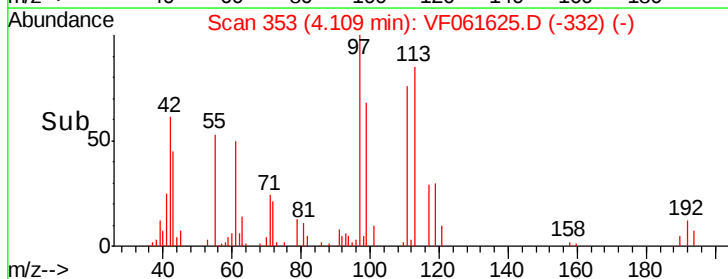
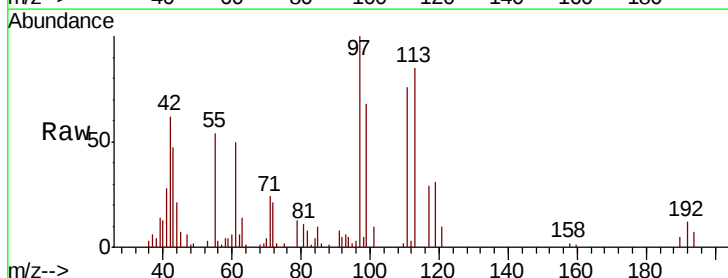
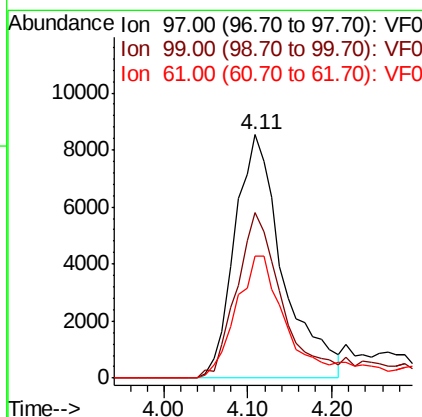
Manual Integrations
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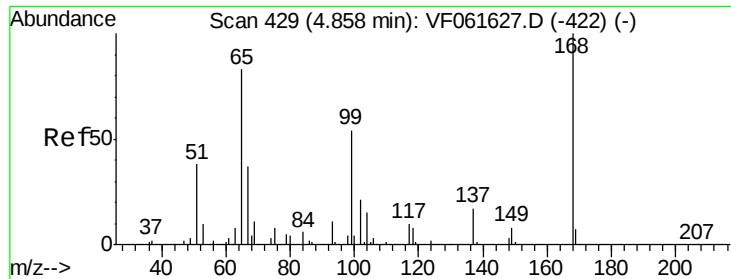
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#32
1,1,1-Trichloroethane
Concen: 6.744 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.8	52.2	78.2
61	50.0	39.2	58.8





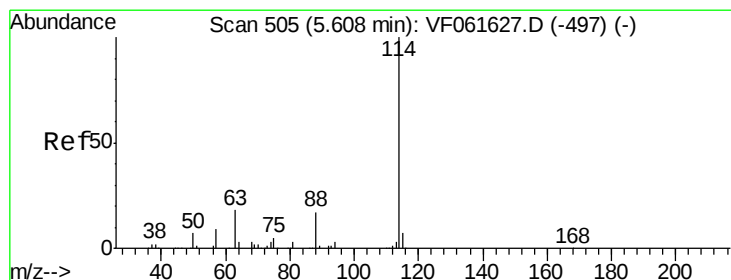
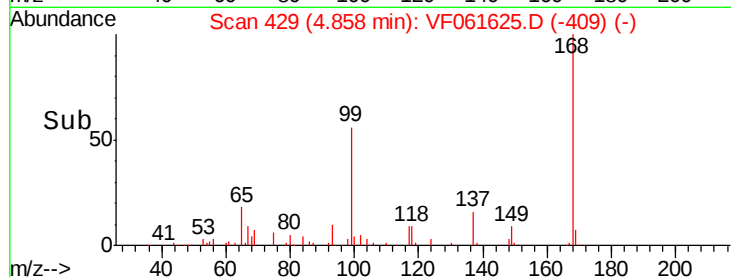
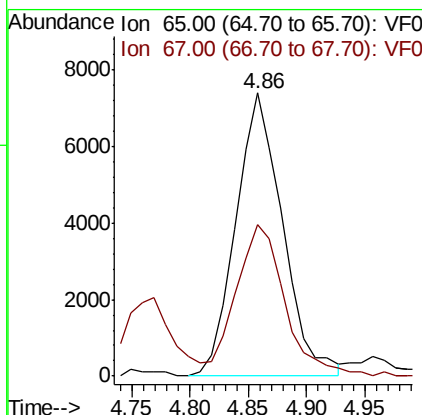
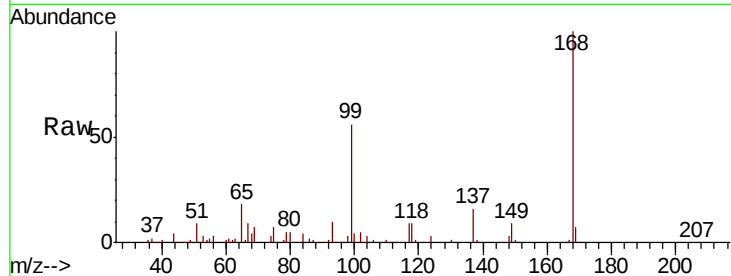
#33
 1,2-Dichloroethane-d4
 Concen: 5.554 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
65	100	20568		
67	53.4	0.0	104.0	

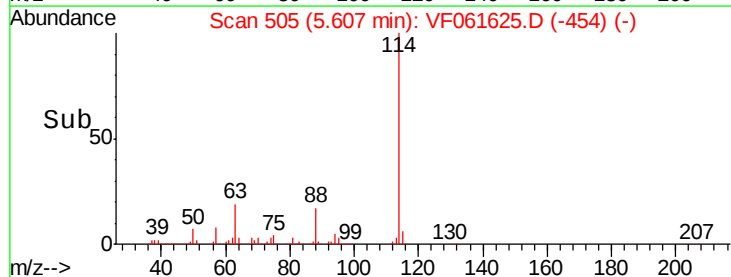
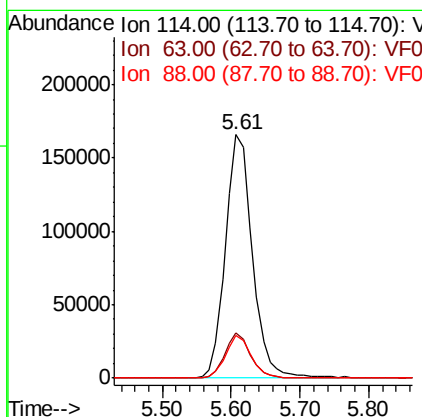
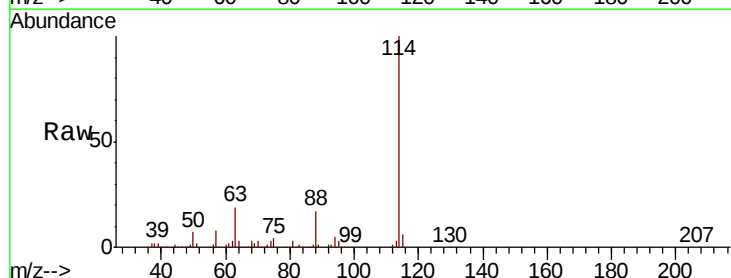
Manual Integrations
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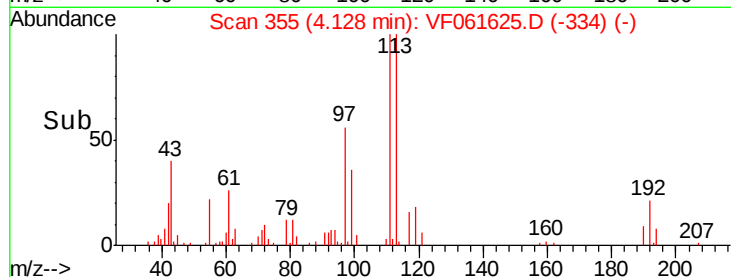
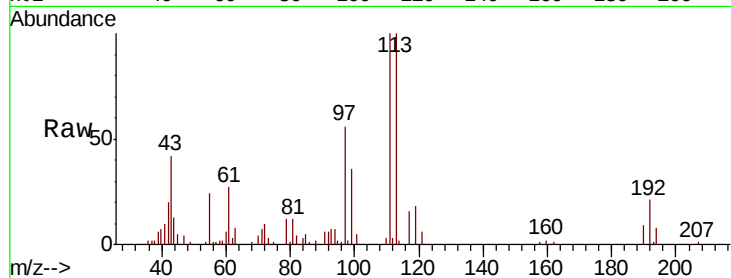
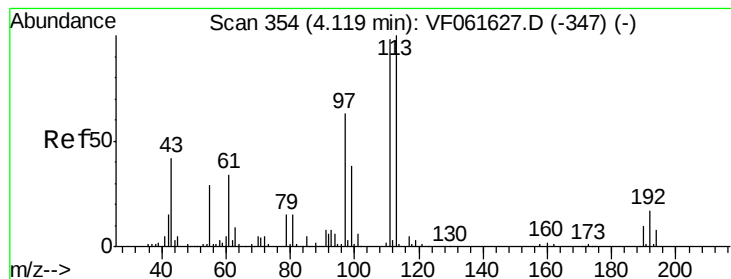
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	450972		
63	18.8	0.0	36.6	
88	17.3	0.0	34.4	





#35

Dibromofluoromethane

Concen: 9.510 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.01 min

Lab File: VF061625.D

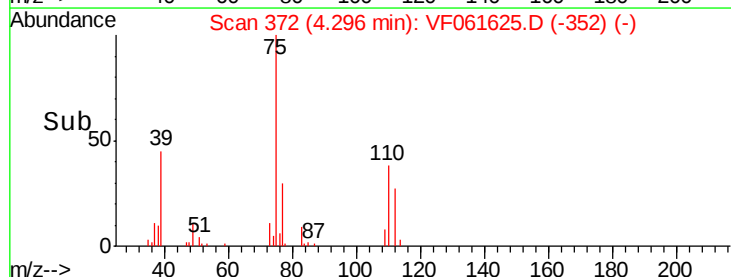
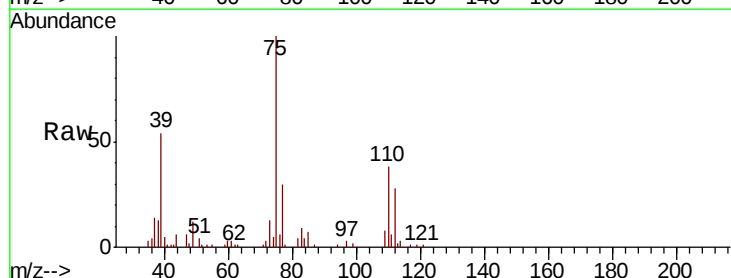
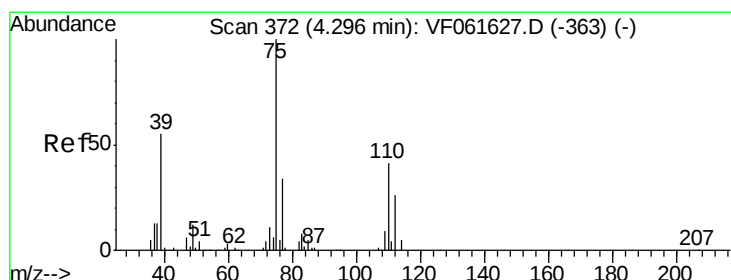
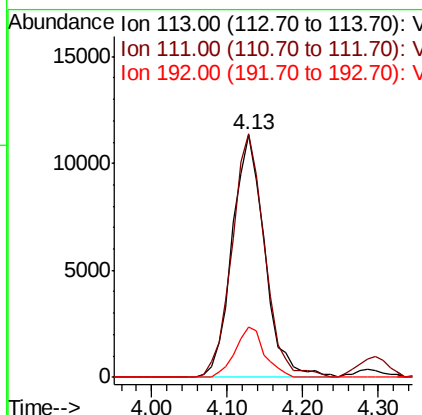
Acq: 13 Feb 2019 16:36

Tot Ion:	113	Resp:	33742
Ion Ratio	Lower	Upper	
113	100		
111	100.4	78.8	118.2
192	20.7	13.4	20.0#

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 8.869 ug/l

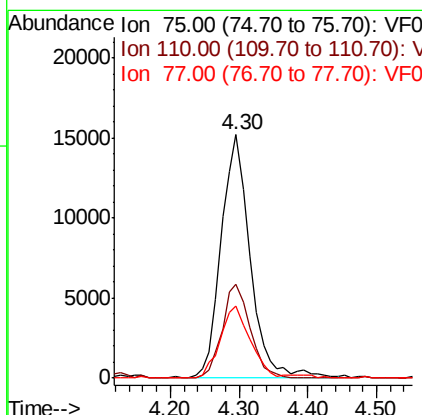
RT: 4.30 min Scan# 372

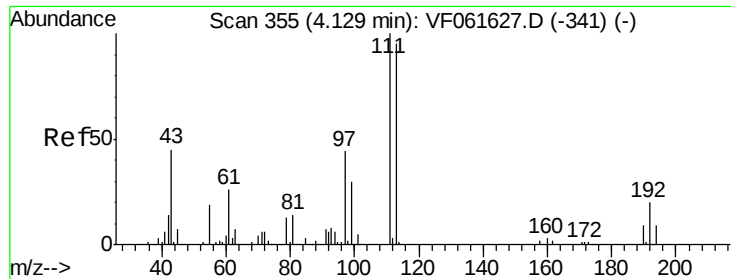
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	75	Resp:	44667
Ion Ratio	Lower	Upper	
75	100		
110	38.4	20.5	61.6
77	29.7	27.0	40.4





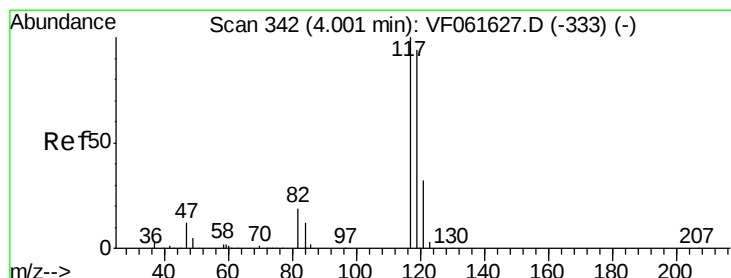
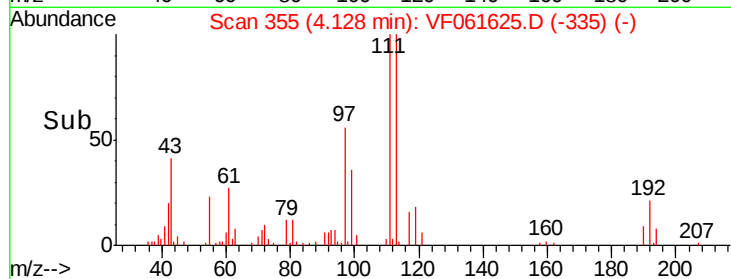
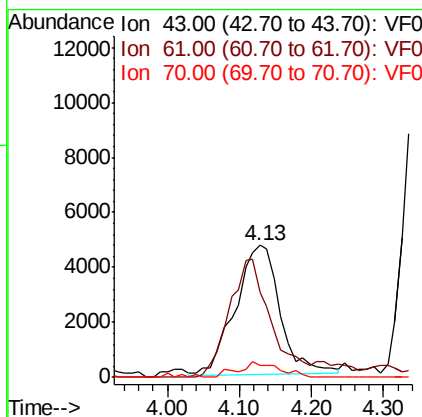
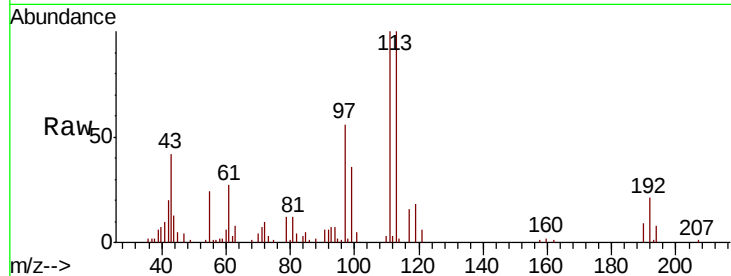
#37
Ethyl Acetate
Concen: 9.237 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	64.8	45.7	68.5
70	9.4	8.5	12.7

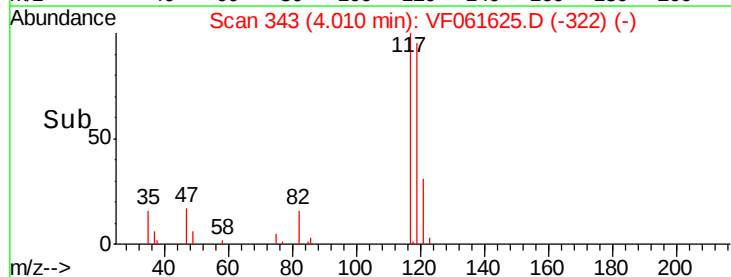
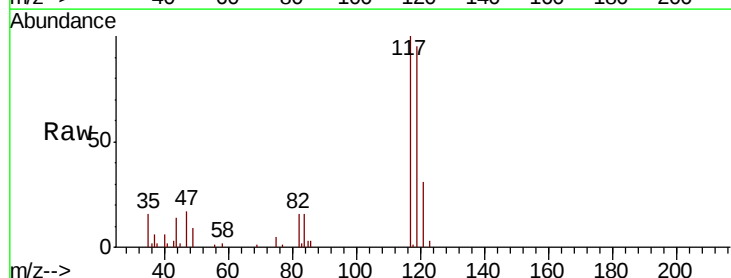
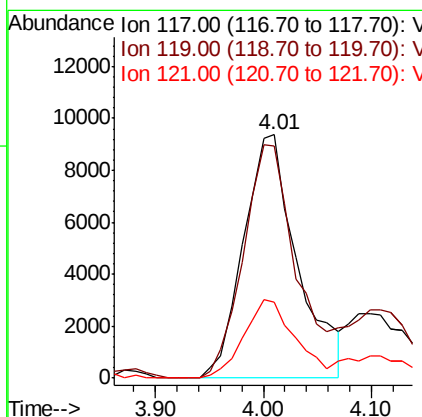
Manual Integrations
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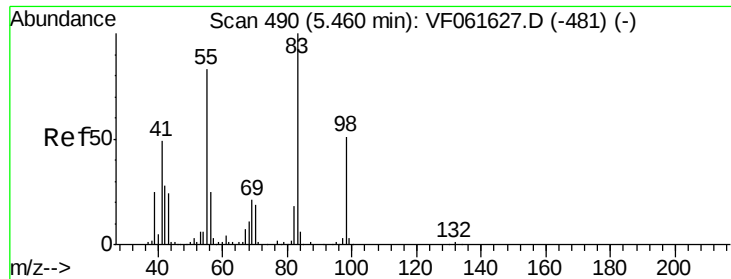
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#38
Carbon Tetrachloride
Concen: 7.907 ug/l
RT: 4.01 min Scan# 343
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.6	113.4
121	31.1	25.2	37.8





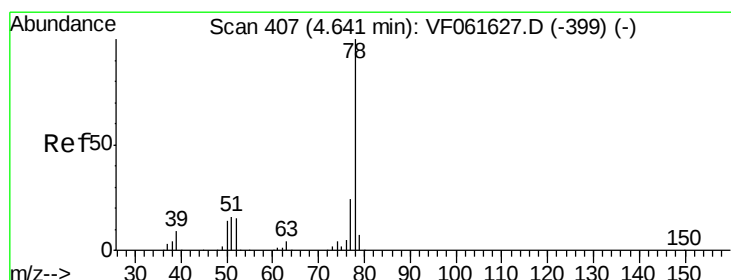
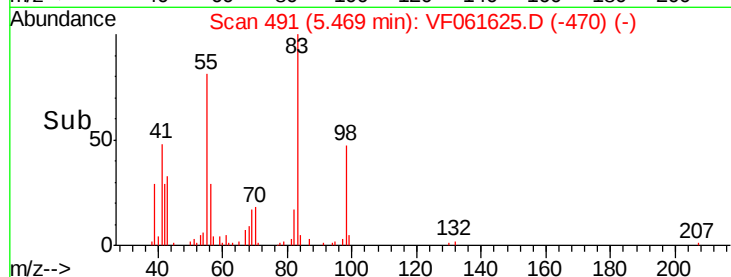
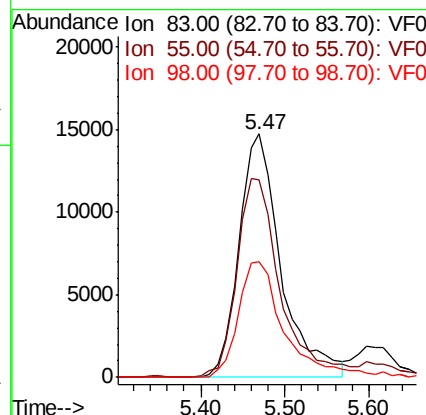
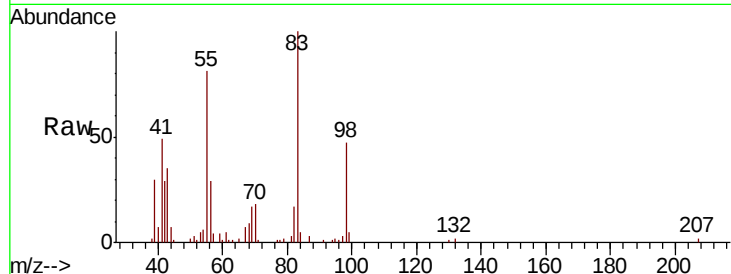
#39
Methylvlcvclohexane
Concen: 10.059 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.6	99.8
98	47.4	40.4	60.6

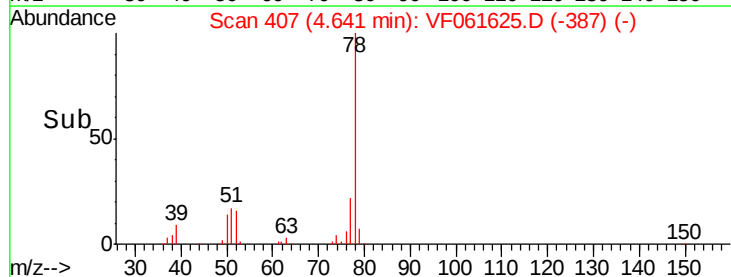
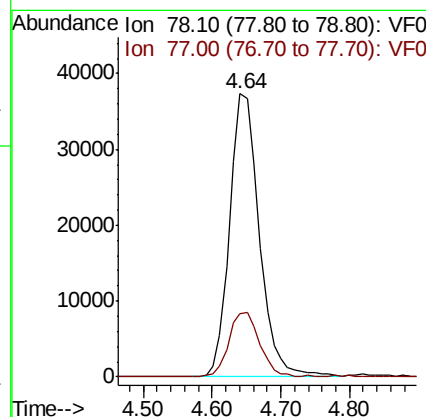
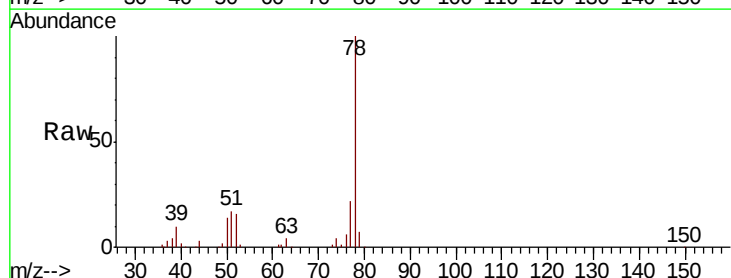
Manual Integrations
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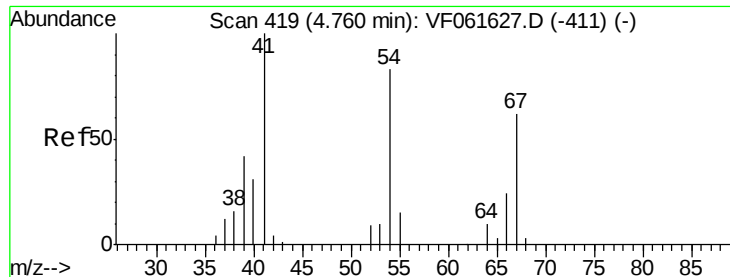
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#40
Benzene
Concen: 9.939 ug/l
RT: 4.64 min Scan# 407
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.0	28.6





#41

Methacrylonitrile

Concen: 8.351 ug/l

RT: 4.76 min Scan# 419

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

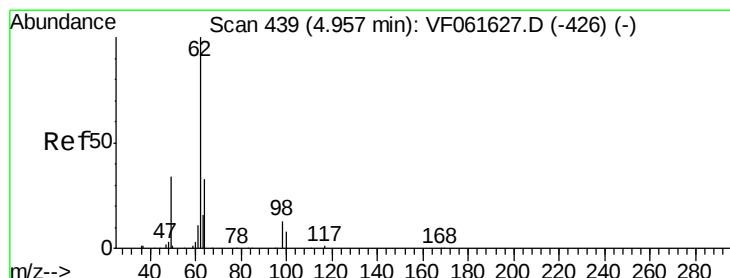
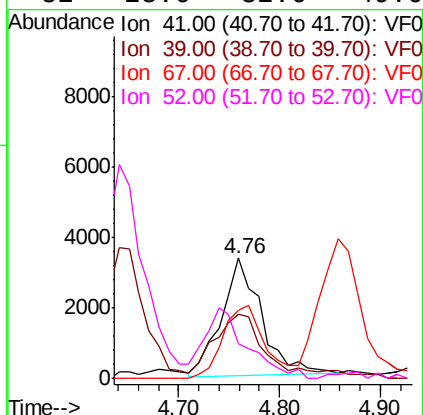
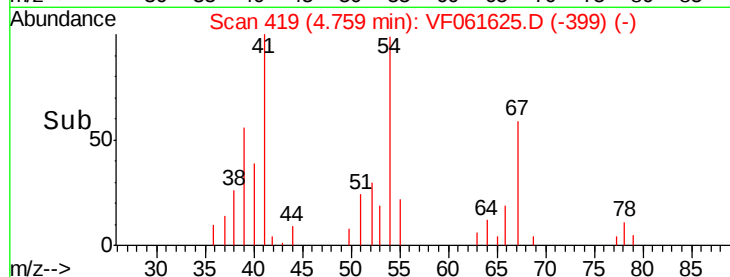
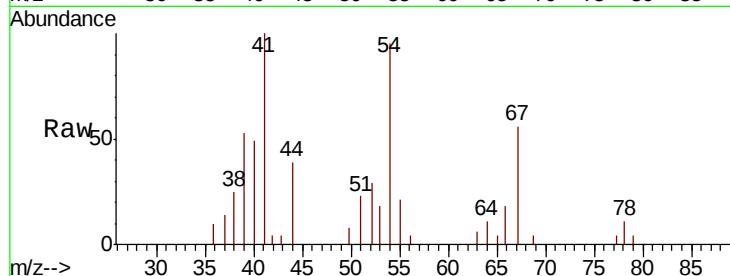
ClientSampled :

VSTDIC010

Tot Ion:	41	Resp:	9267
Ion	Ratio	Lower	Upper
41	100		
39	53.5	45.3	67.9
67	56.4	49.3	73.9
52	28.6	32.6	49.0#

Manual Integrations
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2/14/2019 12:41:48 PM



#42

1,2-Dichloroethane

Concen: 6.745 ug/l

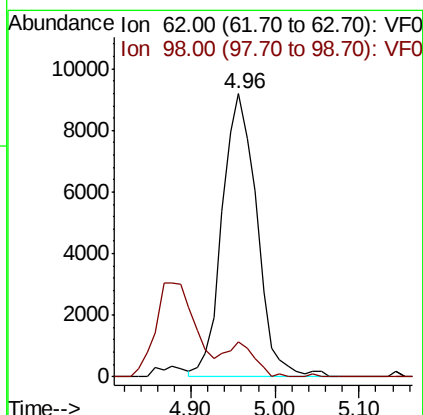
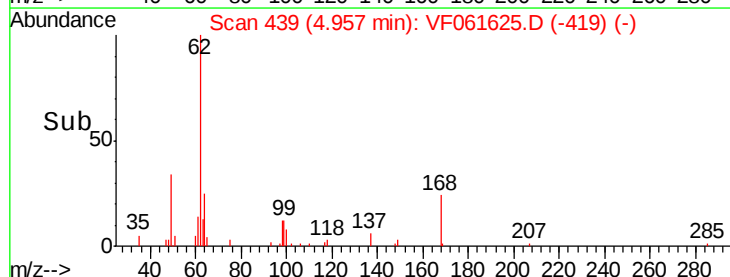
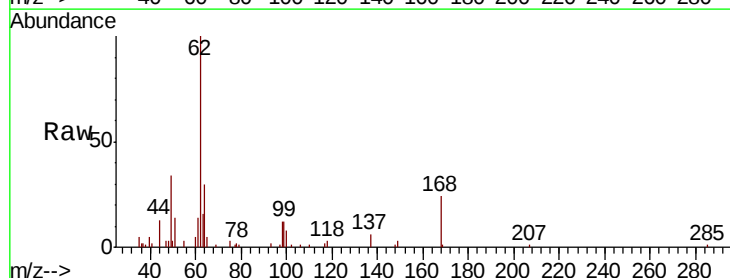
RT: 4.96 min Scan# 439

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	62	Resp:	26338
Ion	Ratio	Lower	Upper
62	100		
98	12.2	0.0	26.0





#43

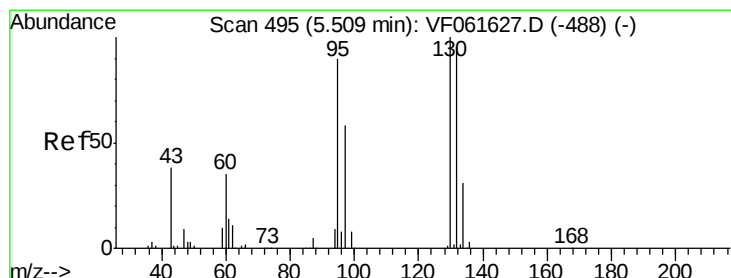
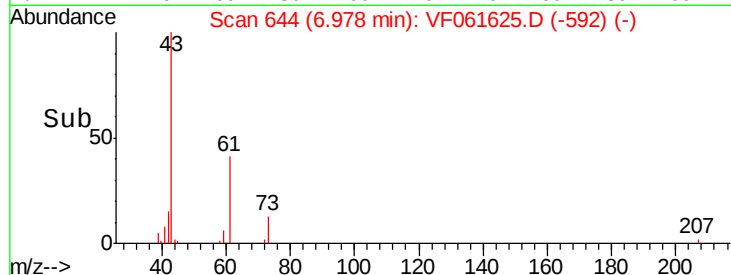
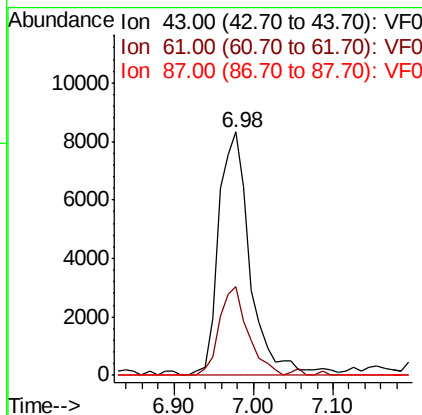
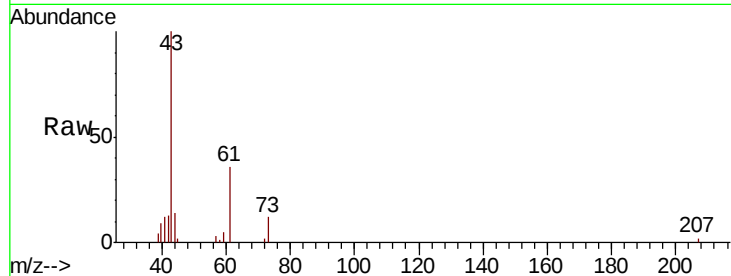
Isopropyl Acetate
 Concen: 9.257 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. 0.01 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	36.4	25.8	38.6
87	0.0	0.4	0.6

Manual Integrations
 APPROVED

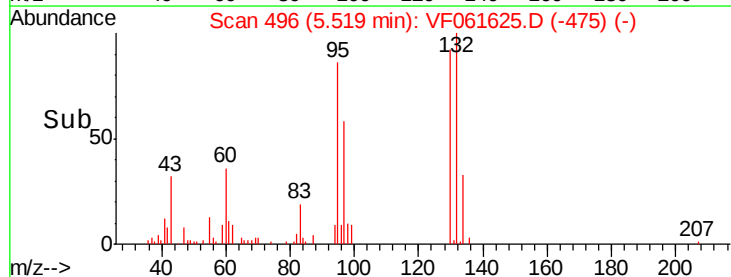
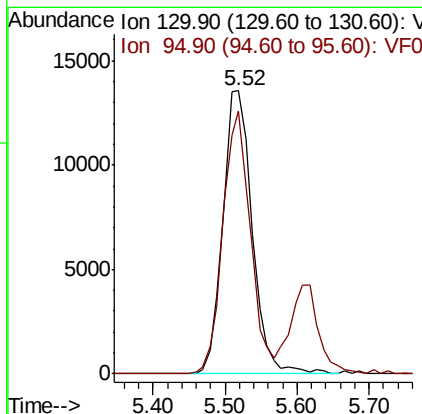
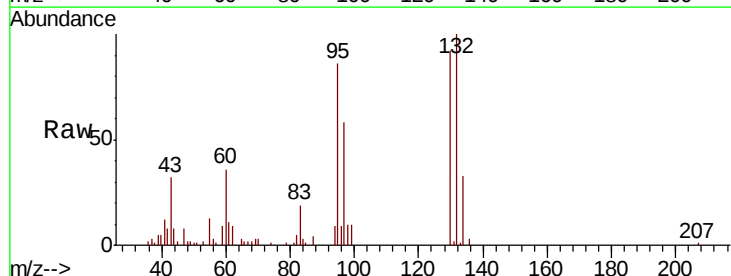
MMDadoda
 2/14/2019 12:41:48 PM

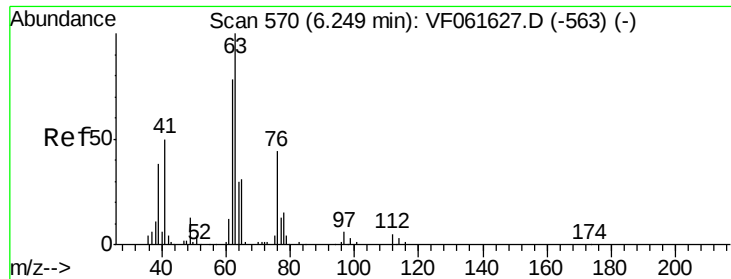


#44

Trichloroethene
 Concen: 11.120 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	179.4





#45

1,2-Dichloropropane

Concen: 9.534 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 27759

Ion Ratio Lower Upper

63 100

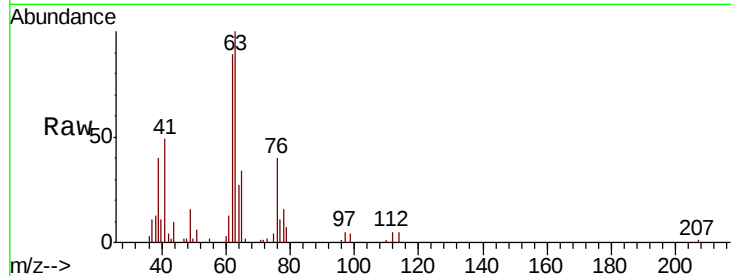
65 33.6 24.9 37.3

Manual Integrations

APPROVED

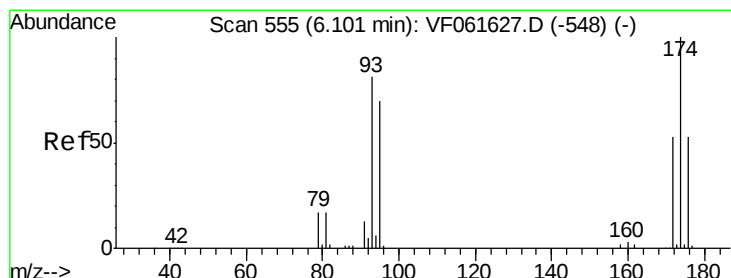
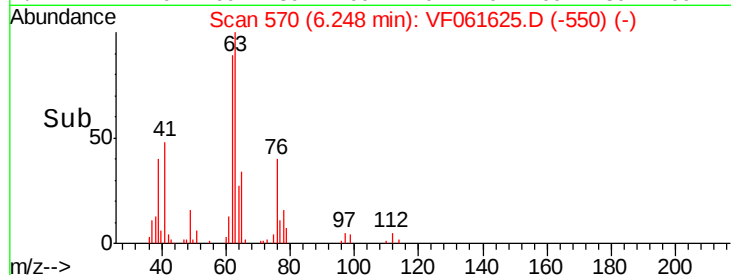
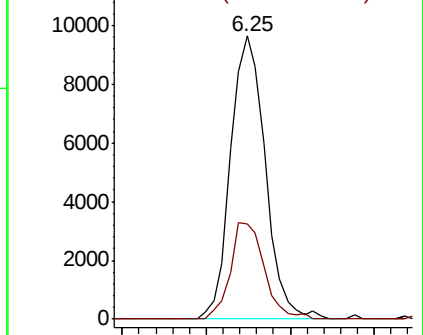
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 8.715 ug/l

RT: 6.10 min Scan# 555

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

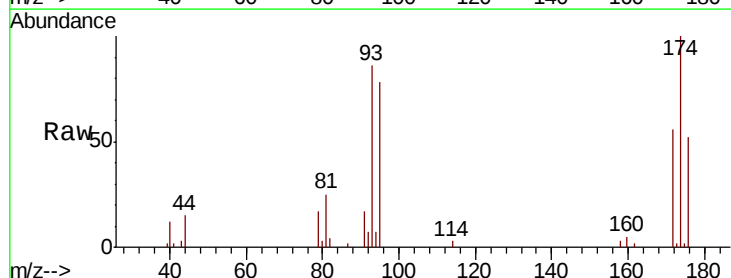
Tgt Ion: 93 Resp: 16574

Ion Ratio Lower Upper

93 100

95 91.2 69.0 103.6

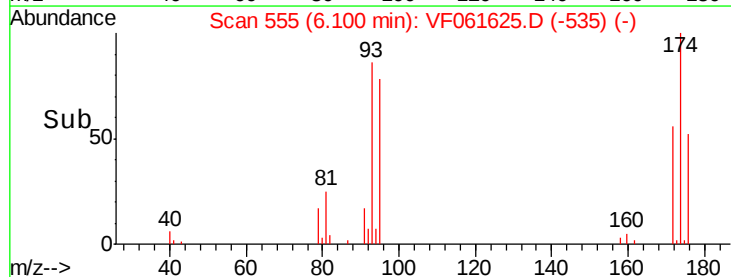
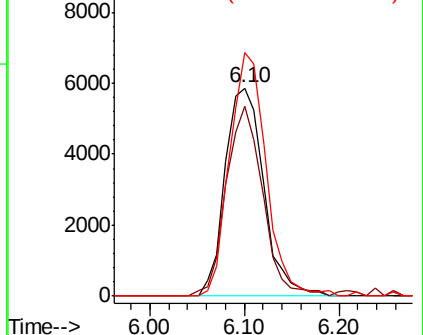
174 116.9 99.3 148.9

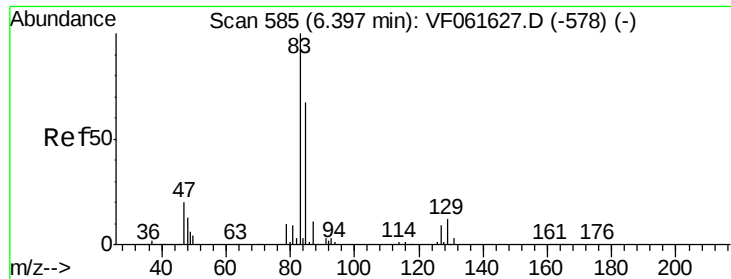


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 7.493 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

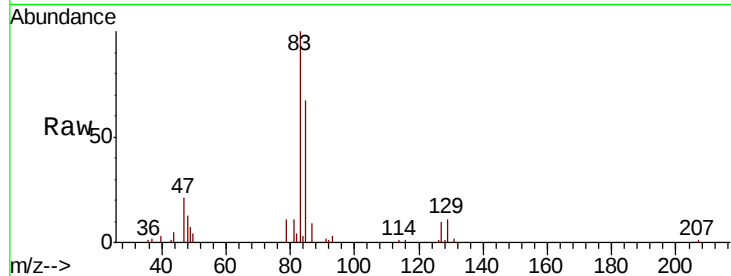
ClientSampleId :

VSTDIC010

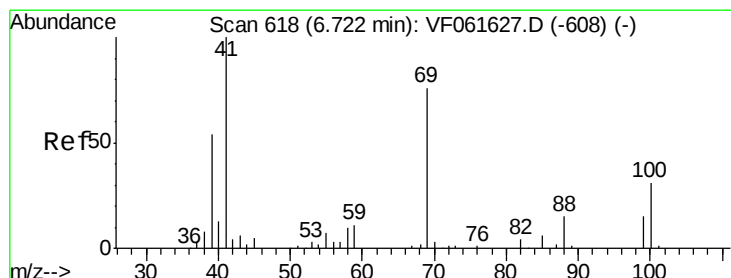
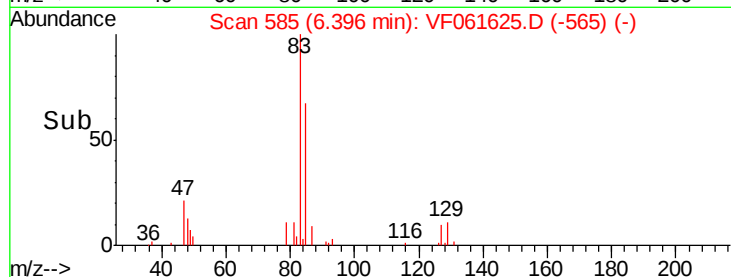
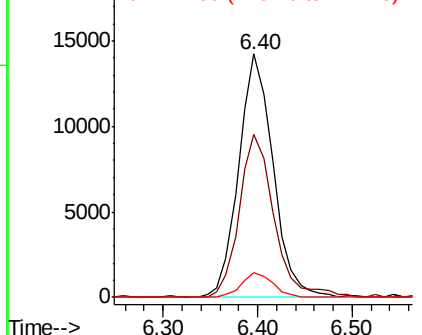
Tot Ion:	83	Resp:	35953
Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.4	80.2
127	10.2	7.5	11.3

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 7.944 ug/l

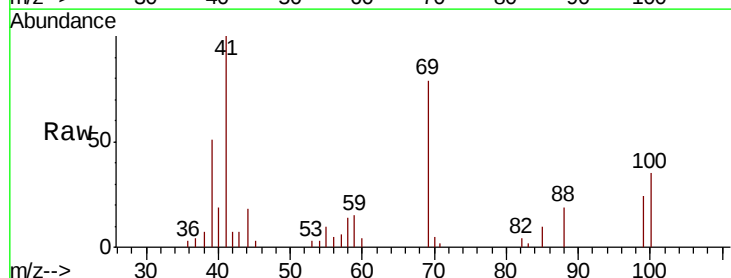
RT: 6.73 min Scan# 619

Delta R.T. 0.01 min

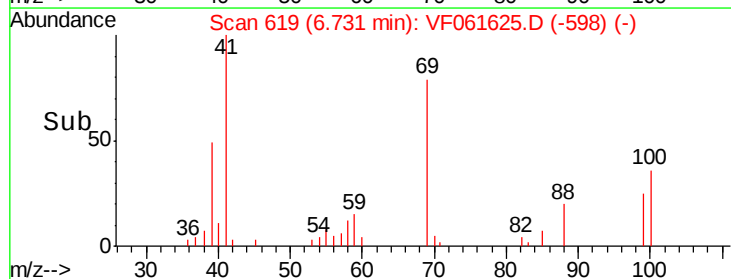
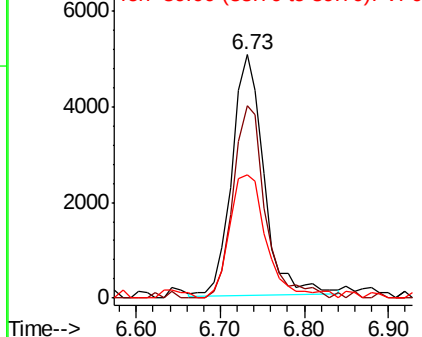
Lab File: VF061625.D

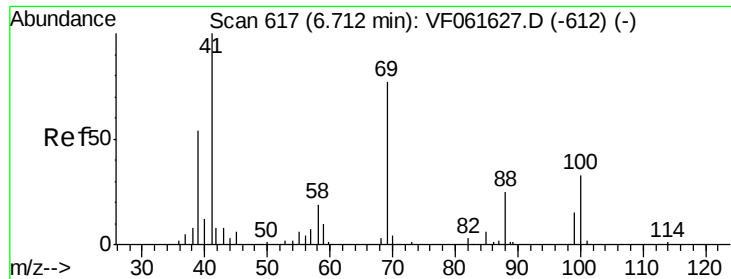
Acq: 13 Feb 2019 16:36

Tgt Ion:	41	Resp:	13341
Ion	Ratio	Lower	Upper
41	100		
69	79.0	60.4	90.6
39	50.9	43.7	65.5



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





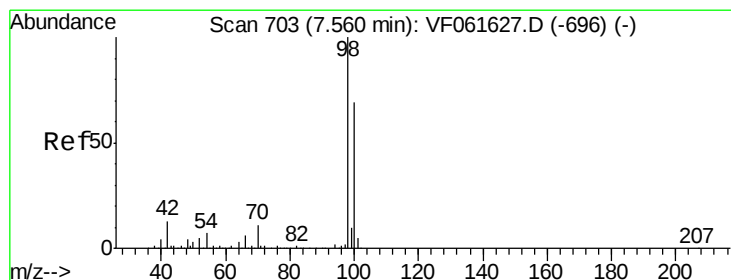
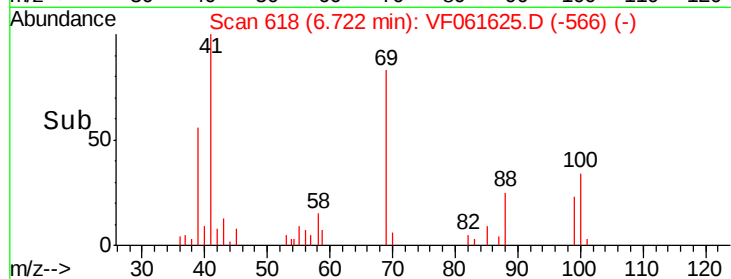
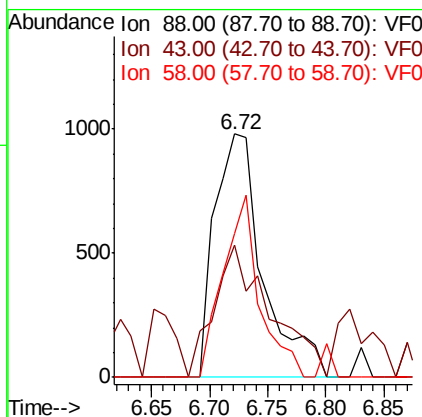
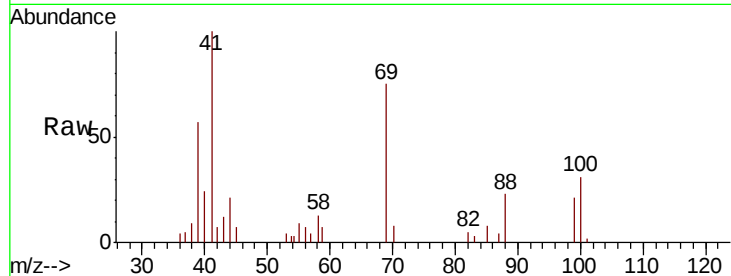
#49
1,4-Dioxane
Concen: 239.475 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
88	100	2823		
43	54.1		32.3	48.5#
58	59.1		59.4	89.2#

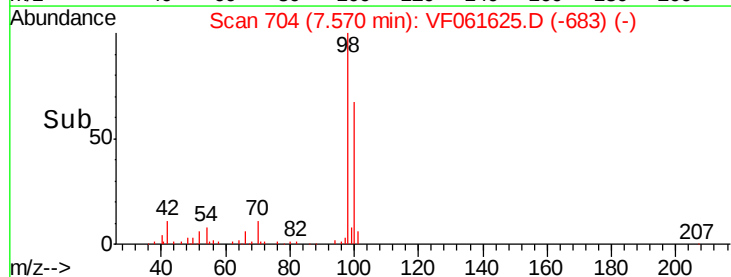
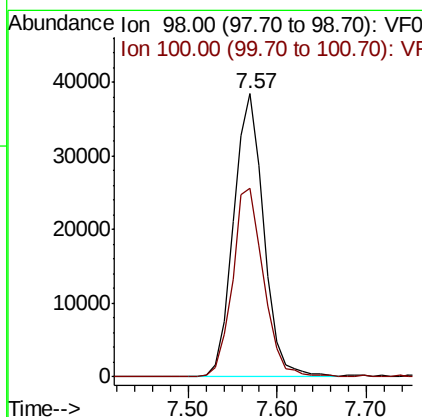
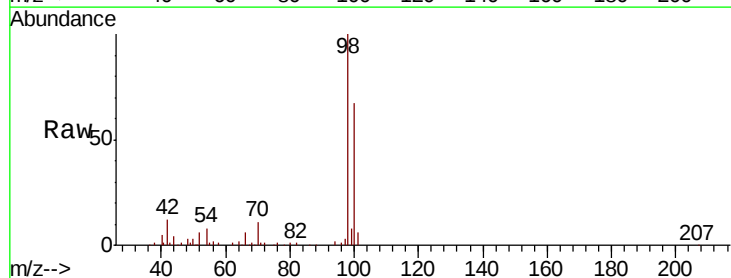
Manual Integrations
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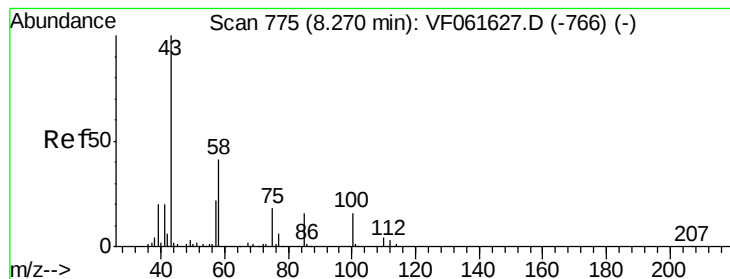
MMDadoda
2/14/2019 12:41:48 PM



#50
Toluene-d8
Concen: 9.375 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	90919		
100	66.8		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 45.600 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 86214

Ion Ratio Lower Upper

43 100

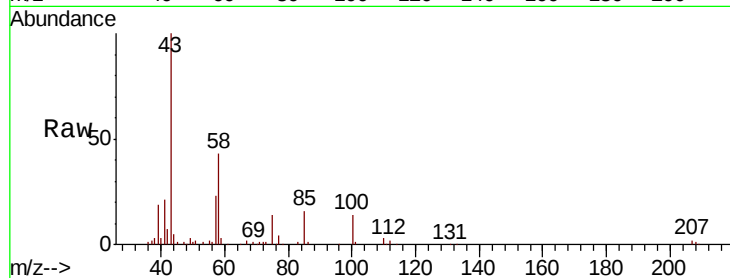
58 42.9 33.1 49.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

40000

30000

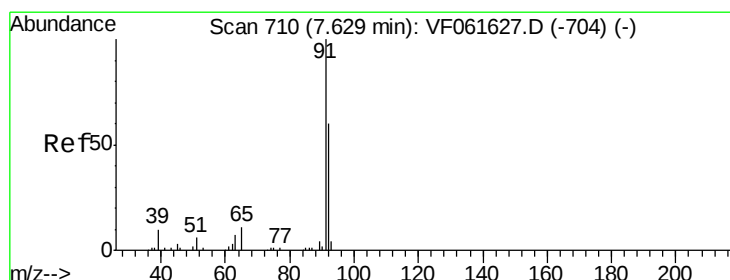
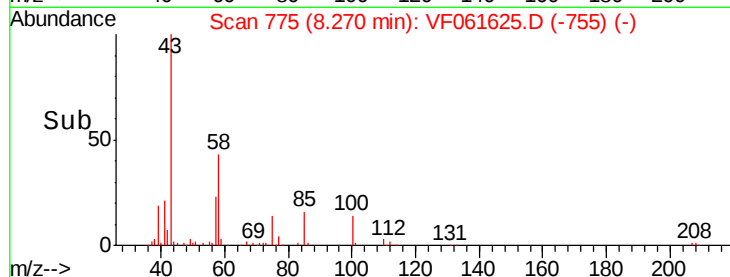
20000

10000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 10.079 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061625.D

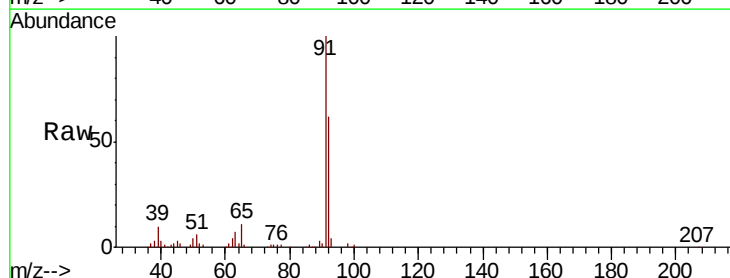
Acq: 13 Feb 2019 16:36

Tgt Ion: 92 Resp: 71028

Ion Ratio Lower Upper

92 100

91 160.8 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

60000

50000

40000

30000

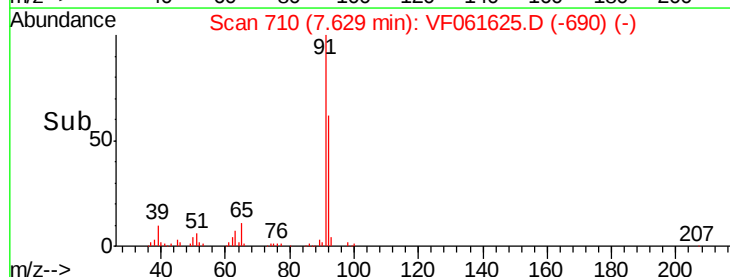
20000

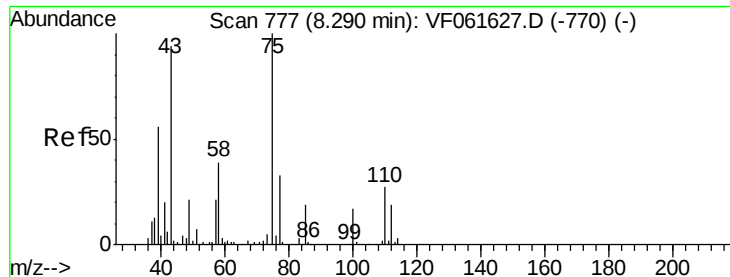
10000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 8.533 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 31685

Ion Ratio Lower Upper

75 100

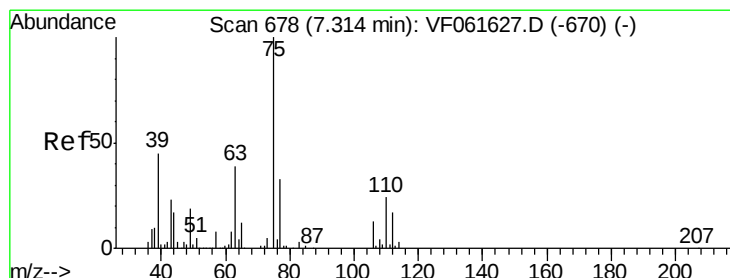
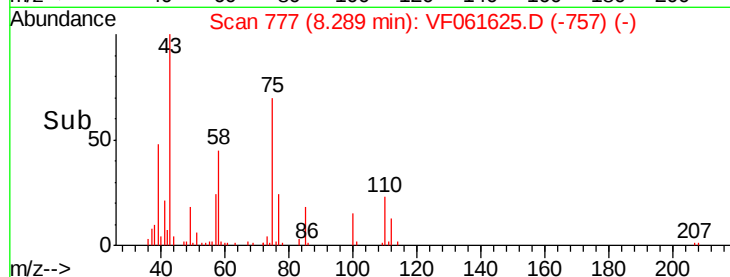
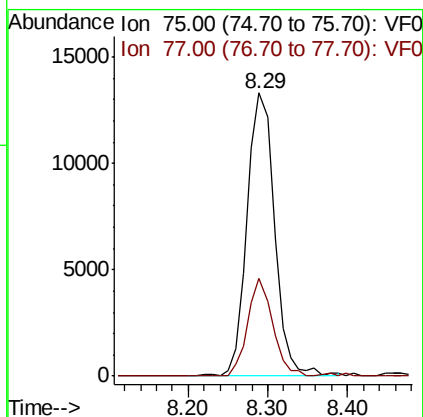
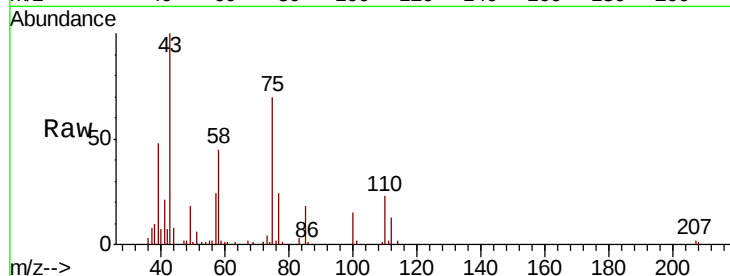
77 34.6 26.2 39.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 8.379 ug/l

RT: 7.31 min Scan# 678

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

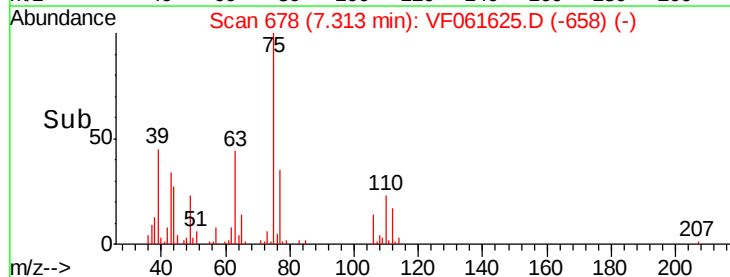
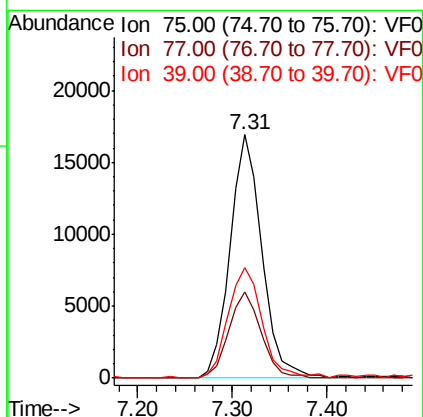
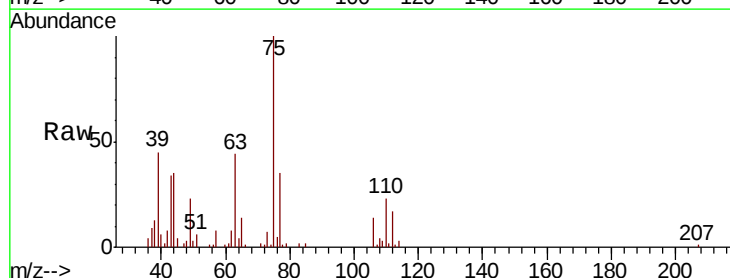
Tgt Ion: 75 Resp: 39434

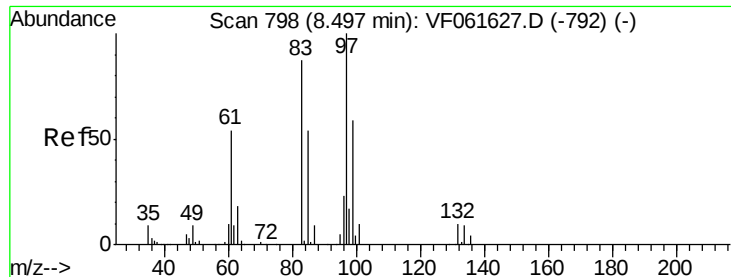
Ion Ratio Lower Upper

75 100

77 35.3 26.4 39.6

39 45.2 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 9.109 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 97 Resp: 19859

Ion Ratio Lower Upper

97 100

83 97.0 69.2 103.8

85 58.0 43.0 64.4

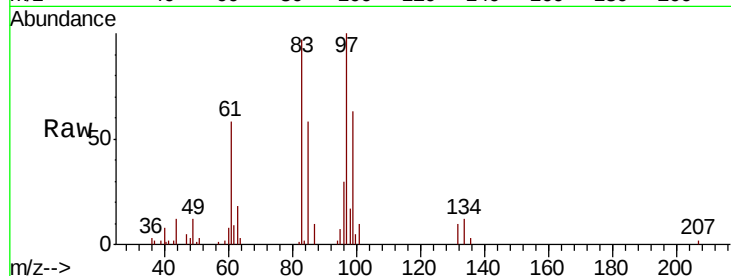
99 63.0 47.2 70.8

Manual Integrations

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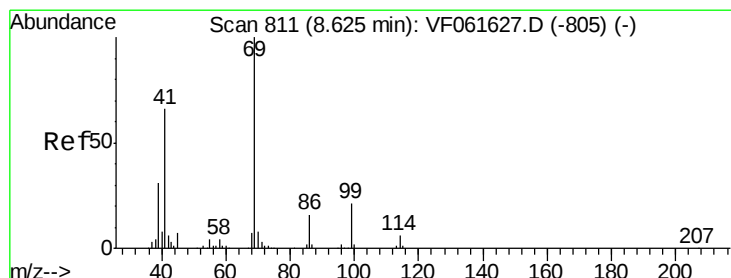
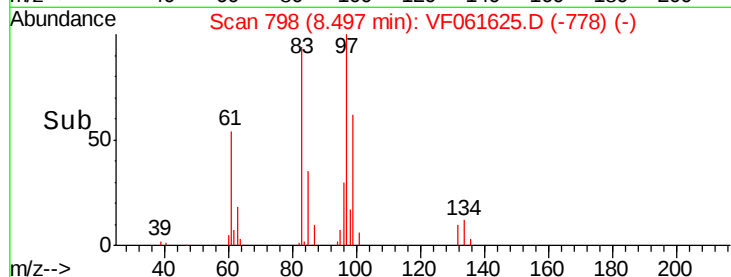
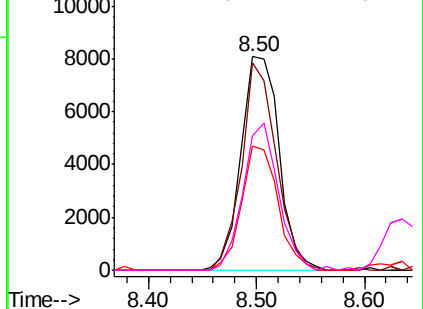


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 9.457 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

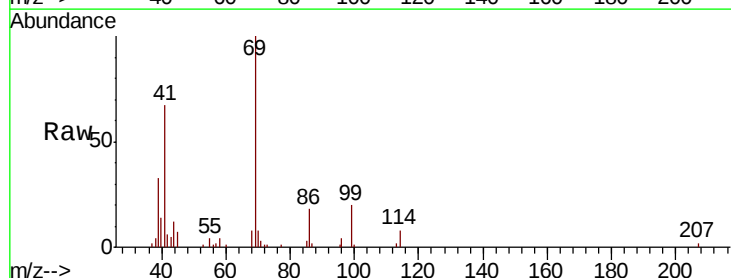
Tgt Ion: 69 Resp: 22857

Ion Ratio Lower Upper

69 100

41 66.6 52.9 79.3

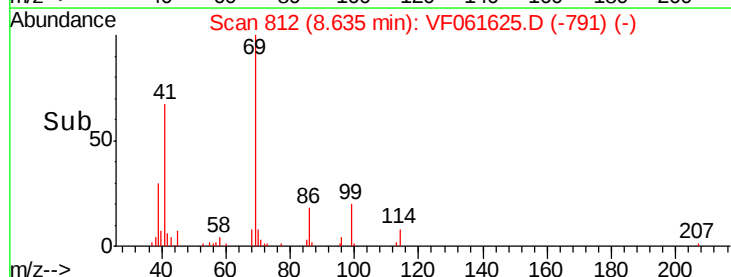
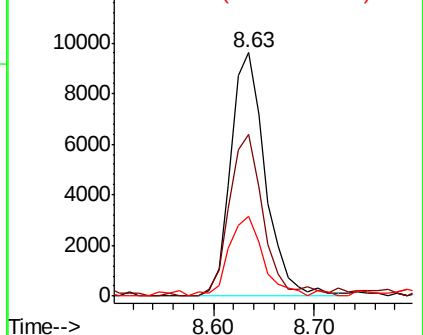
39 32.8 24.5 36.7

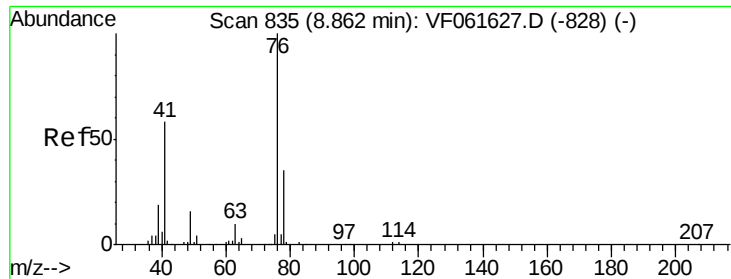


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 8.800 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 33397

Ion Ratio Lower Upper

76 100

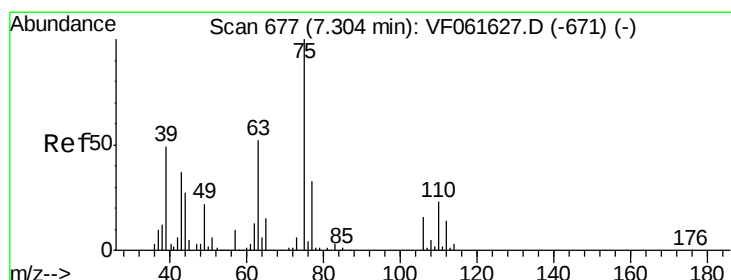
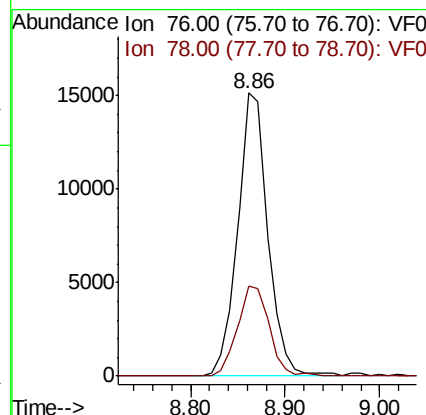
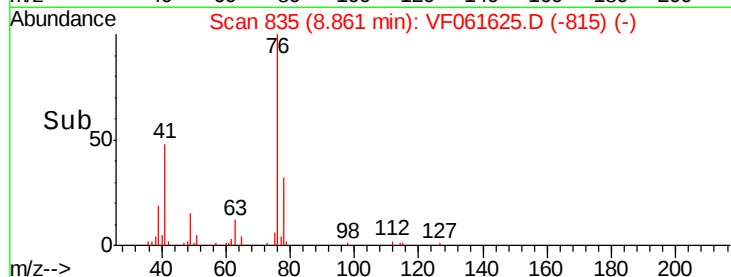
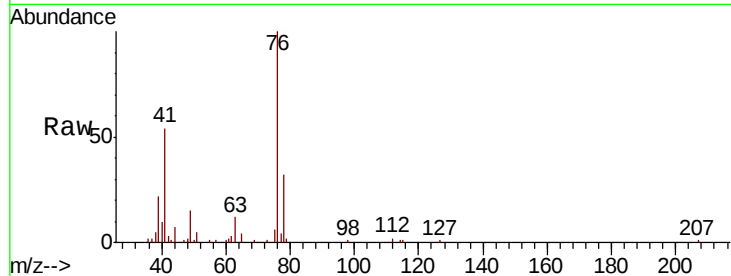
78 31.6 27.8 41.6

Manual Integrations

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2/14/2019 12:41:48 PM



#58

2-Chloroethyl Vinyl ether

Concen: 46.391 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061625.D

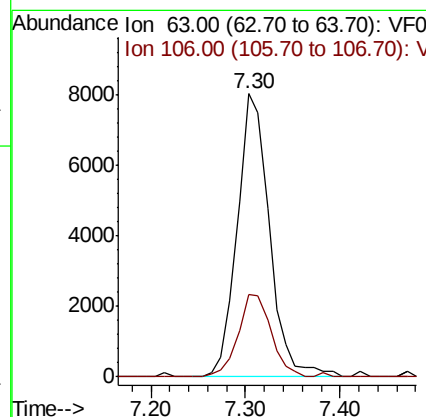
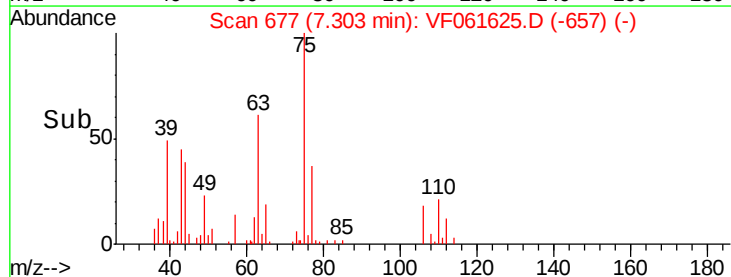
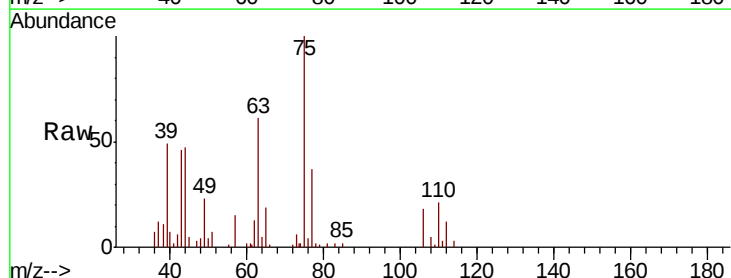
Acq: 13 Feb 2019 16:36

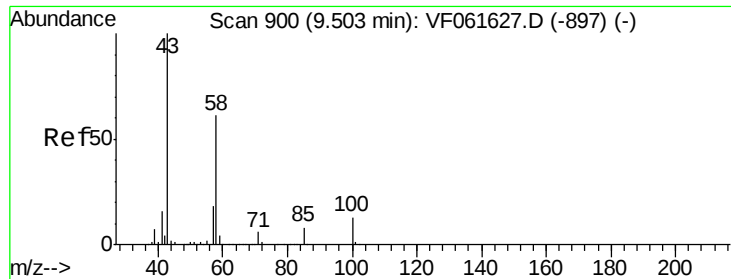
Tgt Ion: 63 Resp: 18914

Ion Ratio Lower Upper

63 100

106 29.0 24.6 36.8





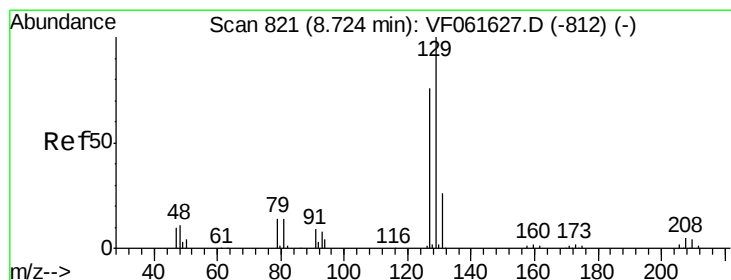
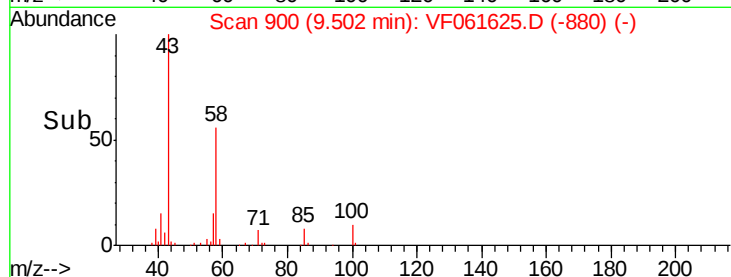
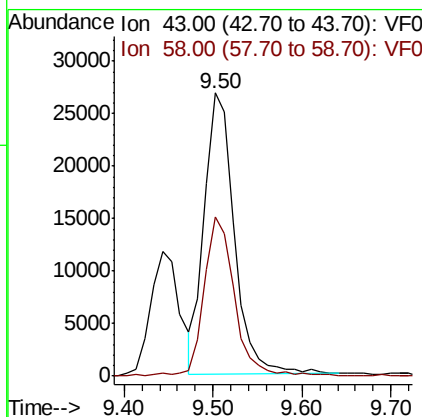
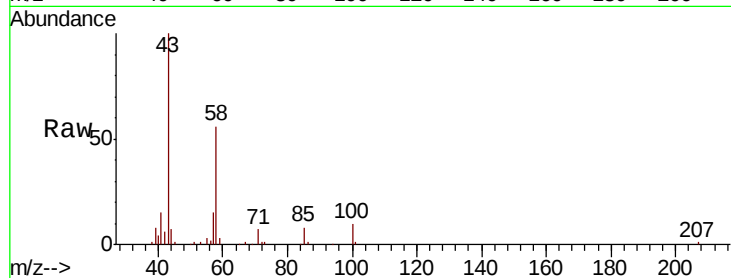
#59
2-Hexanone
Concen: 48.890 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 62609
Ion Ratio Lower Upper
43 100
58 56.4 28.5 85.5

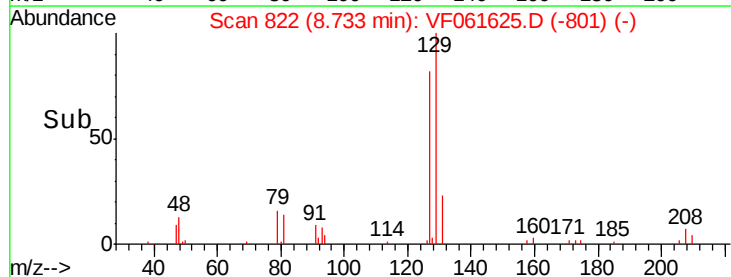
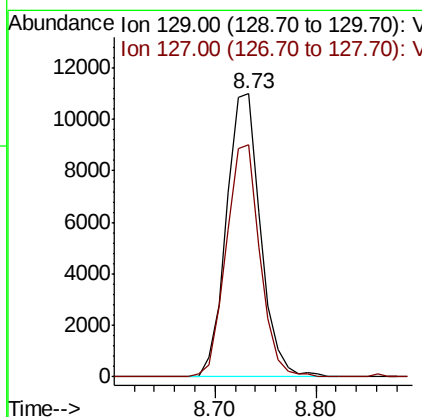
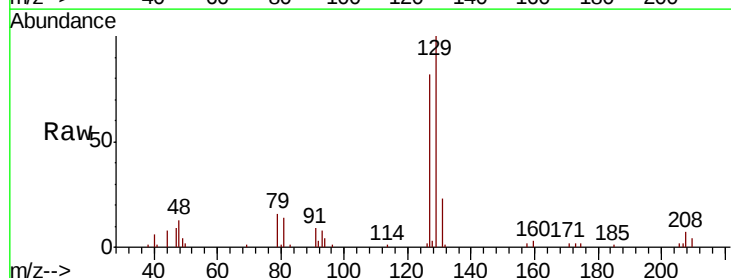
Manual Integrations
APPROVED

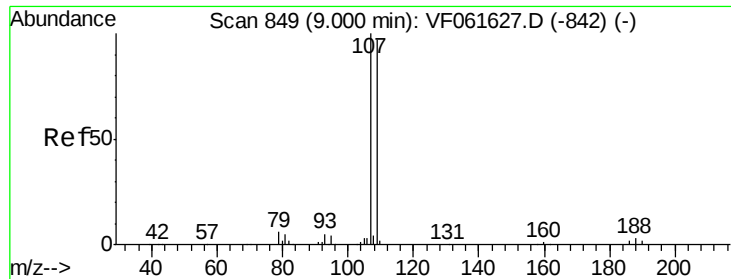
MMDadoda
2/14/2019 12:41:48 PM



#60
Dibromochloromethane
Concen: 8.505 ug/l
RT: 8.73 min Scan# 822
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion: 129 Resp: 25761
Ion Ratio Lower Upper
129 100
127 81.9 37.8 113.4





#61

1,2-Dibromoethane

Concen: 9.327 ug/l

RT: 9.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:107 Resp: 21206

Ion Ratio Lower Upper

107 100

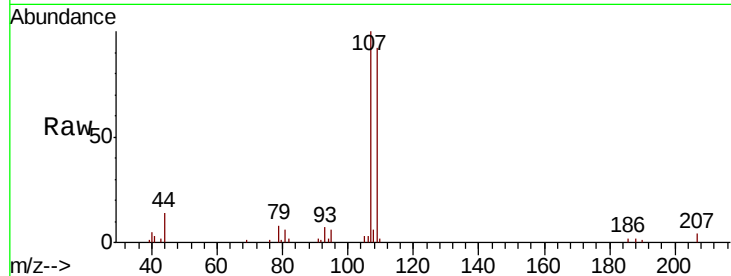
109 92.0 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

2/14/2019 12:41:48 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.00

10000

8000

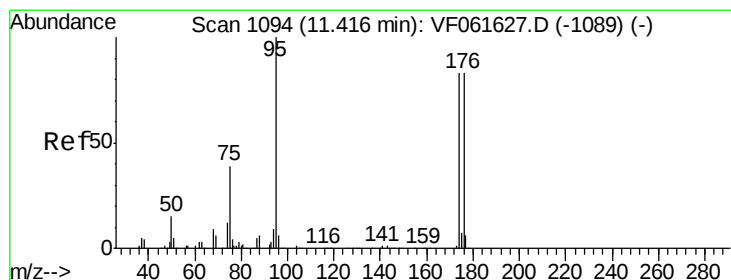
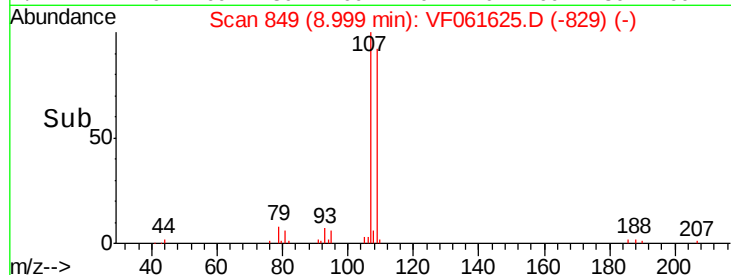
6000

4000

2000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 9.168 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

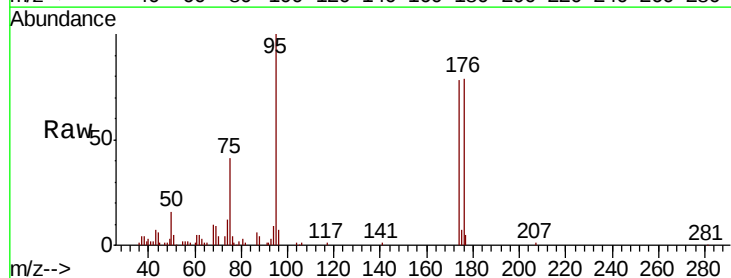
Tgt Ion: 95 Resp: 39308

Ion Ratio Lower Upper

95 100

174 78.4 0.0 165.8

176 79.0 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

30000

25000

20000

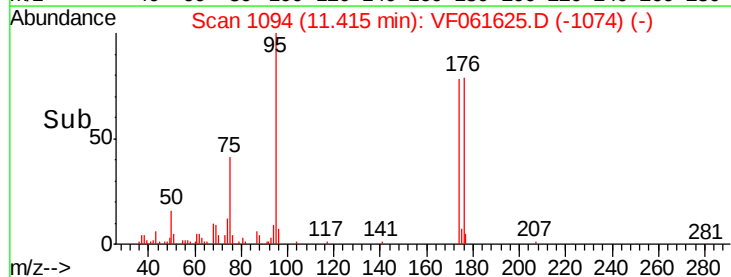
15000

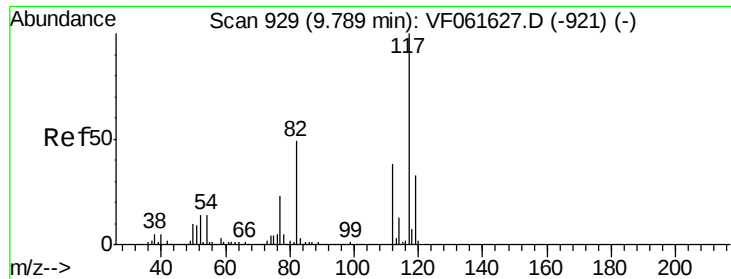
10000

5000

0

Time-->





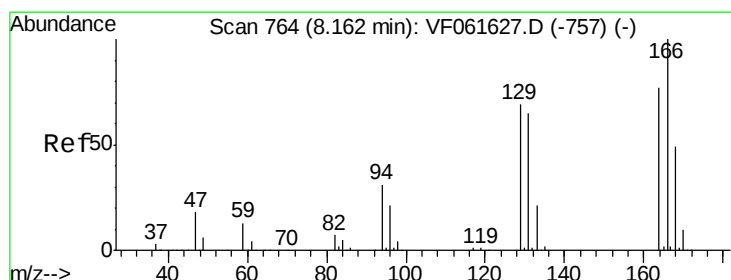
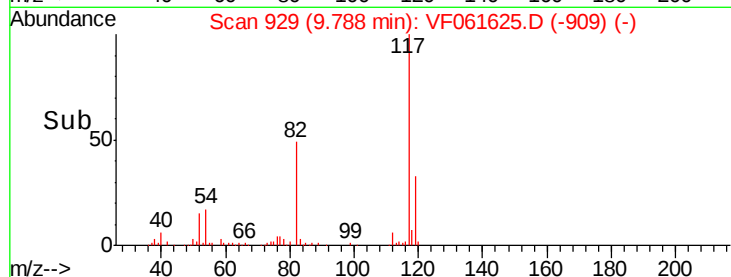
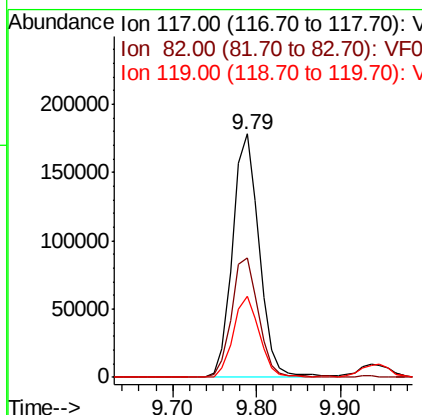
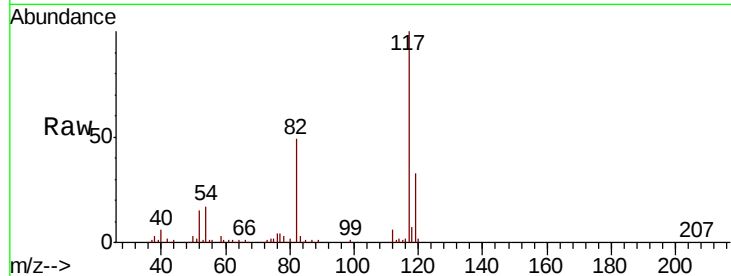
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.3	39.3	58.9
119	33.1	26.6	40.0

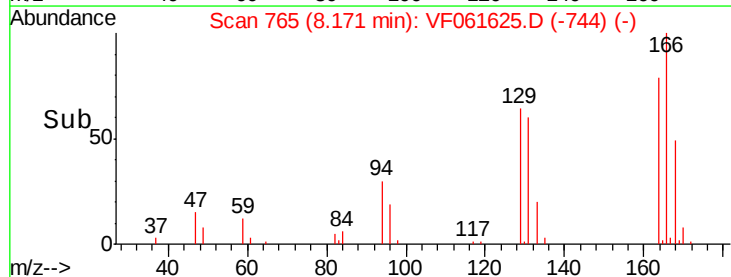
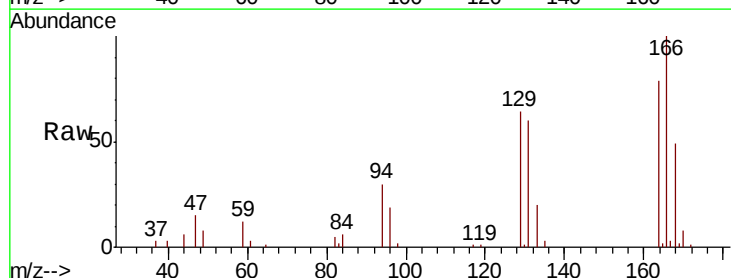
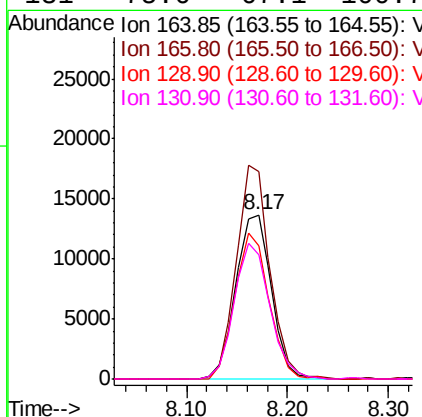
Manual Integrations
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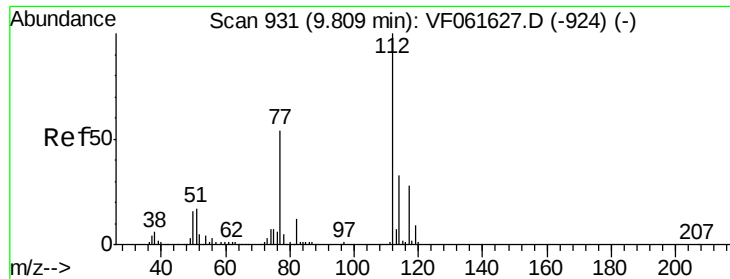
MMDadoda
2/14/2019 12:41:48 PM



#64
Tetrachloroethene
Concen: 11.282 ug/l
RT: 8.17 min Scan# 765
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	103.9	155.9
129	81.0	71.3	106.9
131	75.6	67.1	100.7





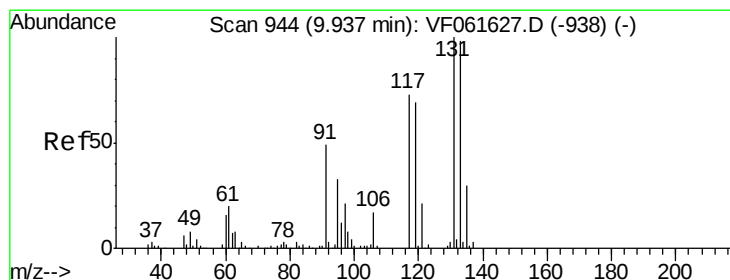
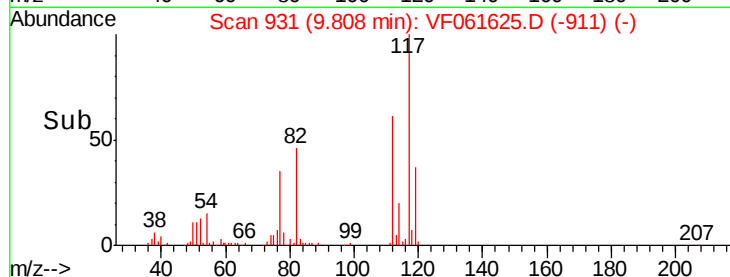
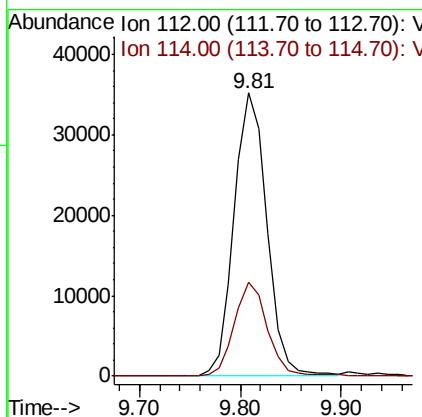
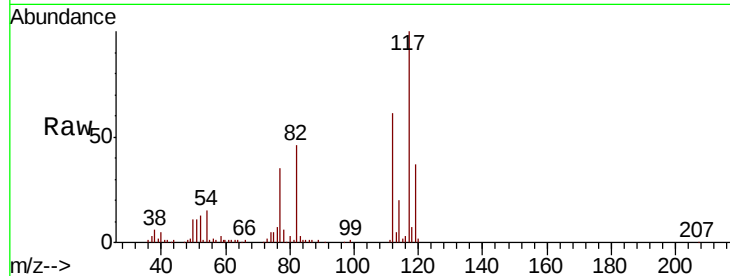
#65
Chlorobenzene
Concen: 10.426 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:112 Resp: 79917
Ion Ratio Lower Upper
112 100
114 33.3 26.2 39.2

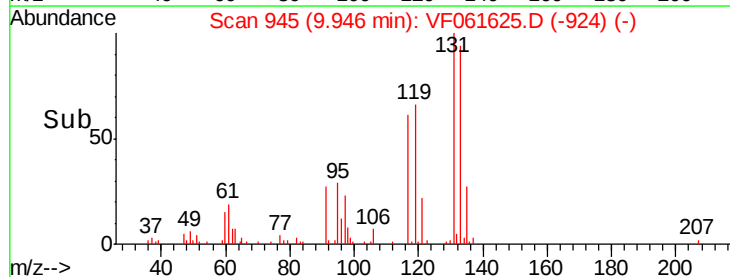
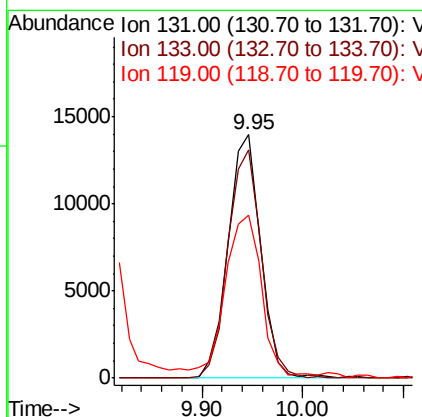
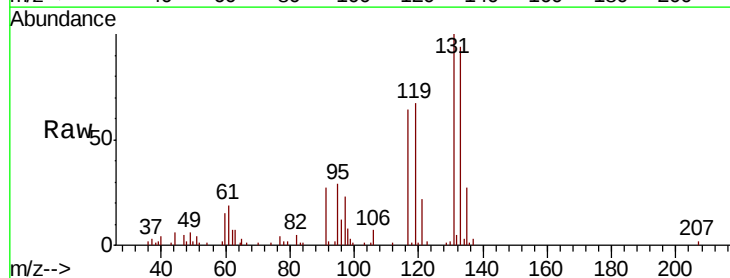
Manual Integrations
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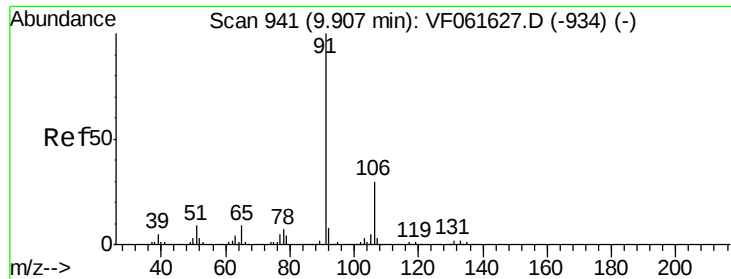
MMDadoda
2/14/2019 12:41:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 9.933 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion:131 Resp: 31402
Ion Ratio Lower Upper
131 100
133 93.7 48.9 146.6
119 66.8 34.8 104.3





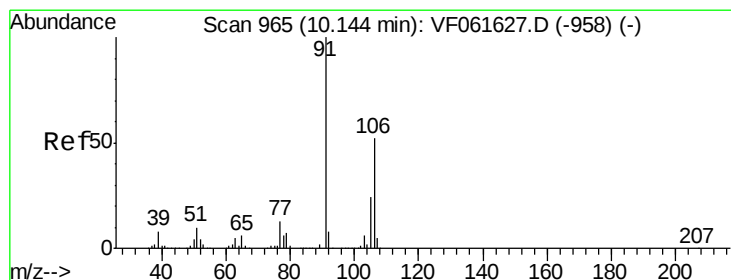
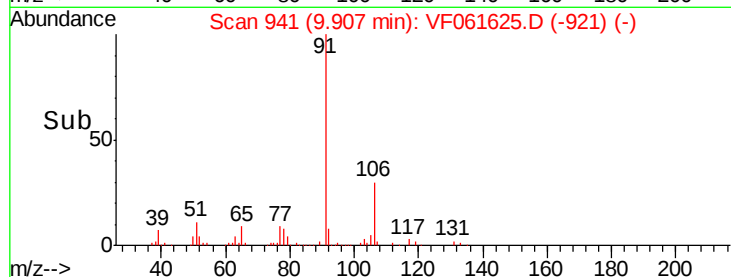
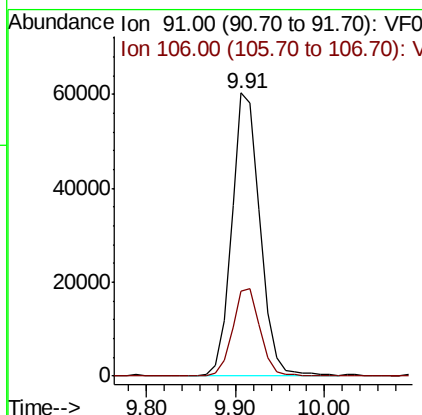
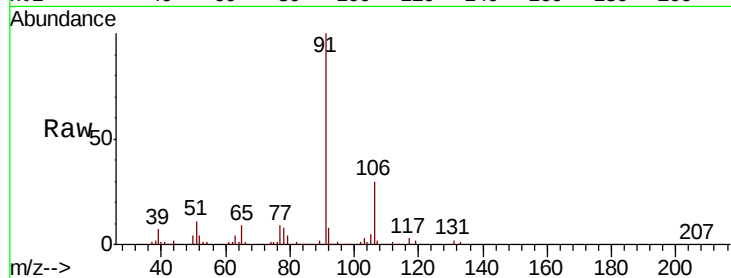
#67
Ethyl Benzene
Concen: 9.607 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 91 Resp: 134074
Ion Ratio Lower Upper
91 100
106 30.1 24.1 36.1

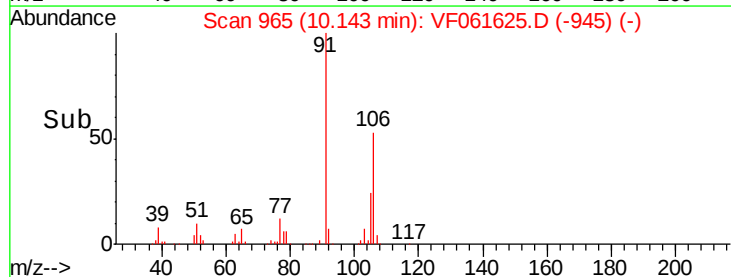
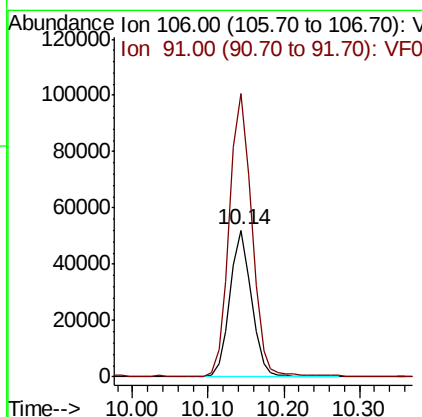
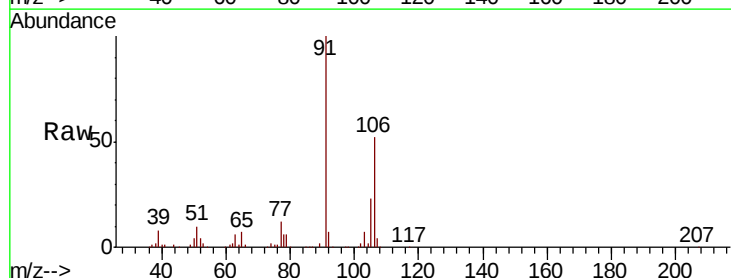
Manual Integrations
APPROVED

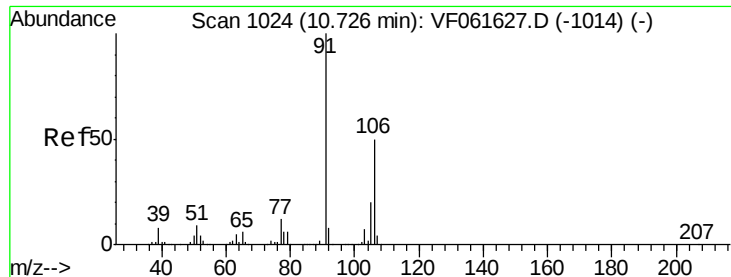
MMDadoda
2/14/2019 12:41:48 PM



#68
m/p-Xylenes
Concen: 21.326 ug/l
RT: 10.14 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion: 106 Resp: 103254
Ion Ratio Lower Upper
106 100
91 192.5 153.0 229.6





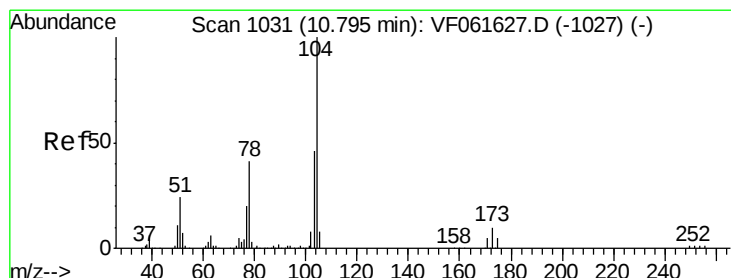
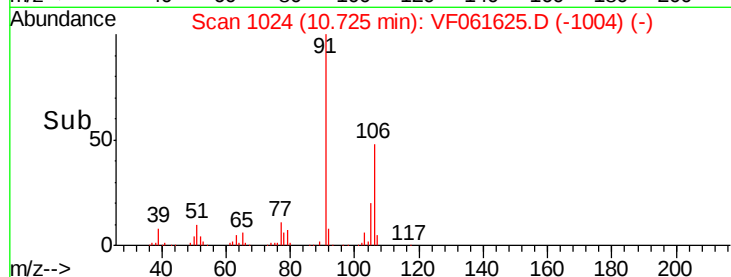
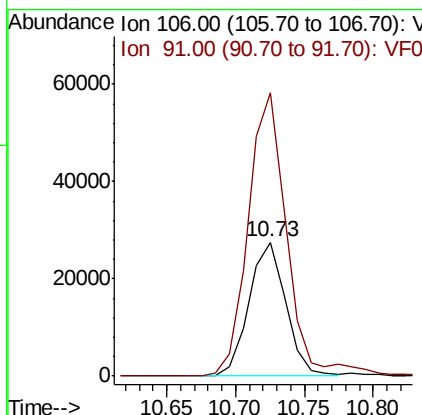
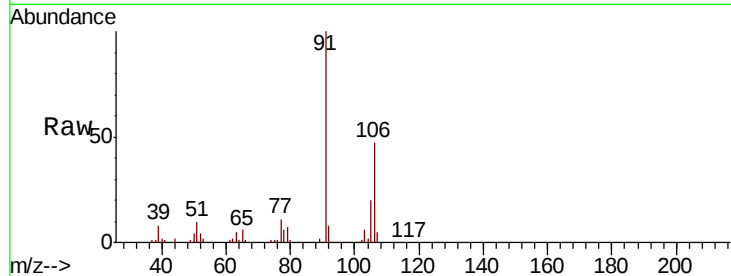
#69
o-Xylene
Concen: 9.706 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	210.9	100.1	300.1	

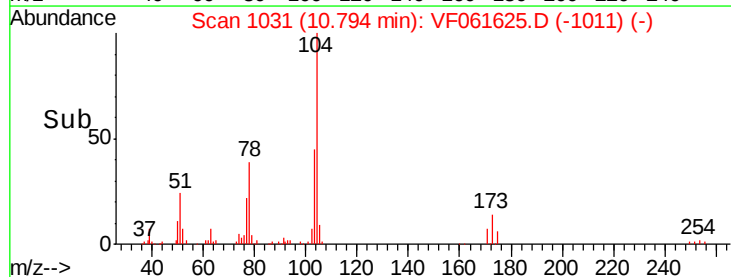
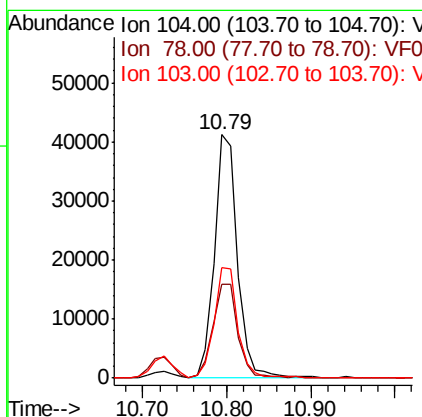
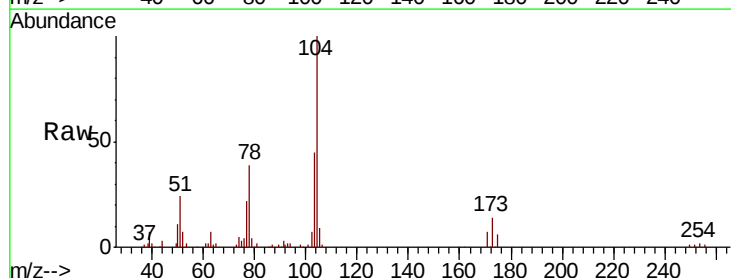
Manual Integrations
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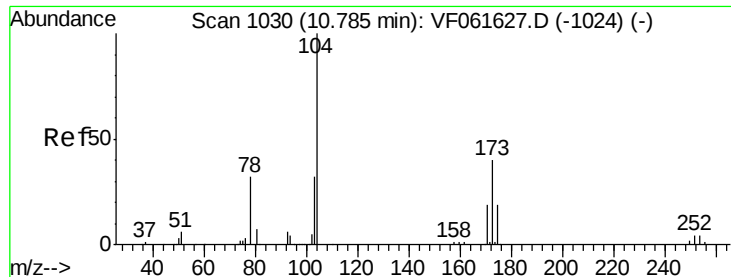
MMDadoda
2/14/2019 12:41:48 PM



#70
Styrene
Concen: 10.617 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	38.5	33.2	49.8	
103	45.3	37.2	55.8	





#71

Bromoform

Concen: 11.139 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:173 Resp: 16668

Ion Ratio Lower Upper

173 100

175 45.9 24.0 72.0

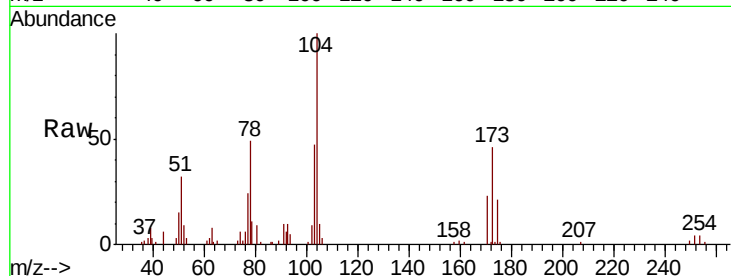
254 7.8 8.2 12.2#

Manual Integrations

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MMDadoda

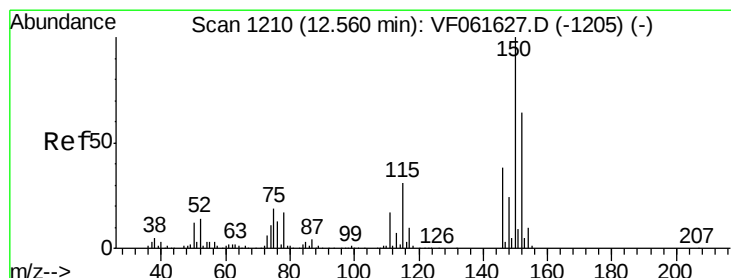
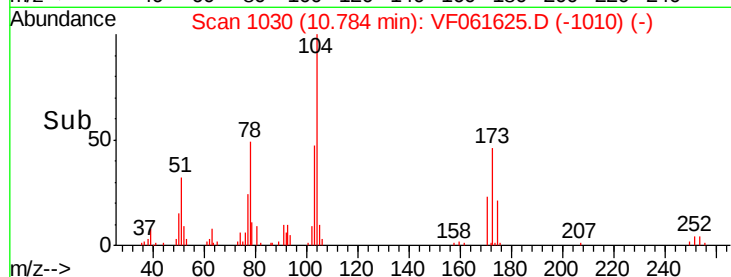
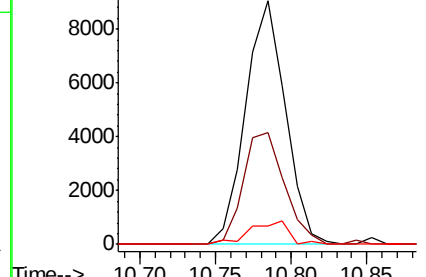
2/14/2019 12:41:48 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

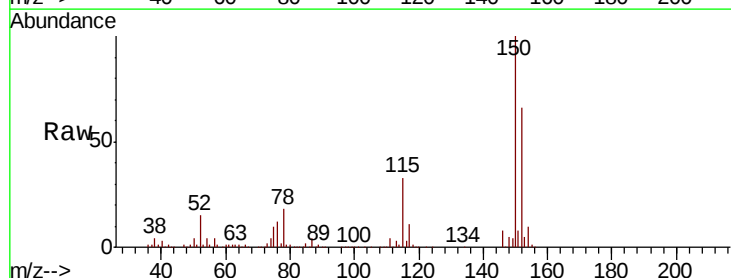
Tgt Ion:152 Resp: 224217

Ion Ratio Lower Upper

152 100

115 50.2 24.3 72.8

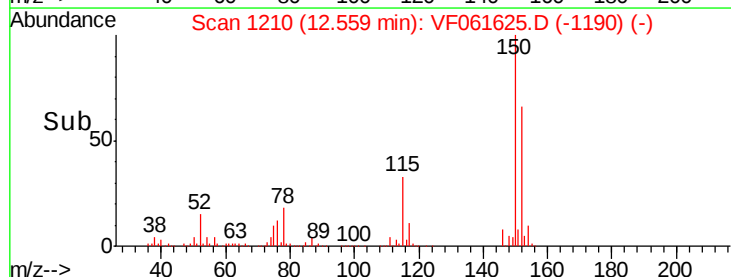
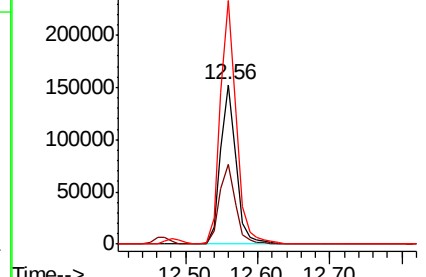
150 152.6 0.0 312.0

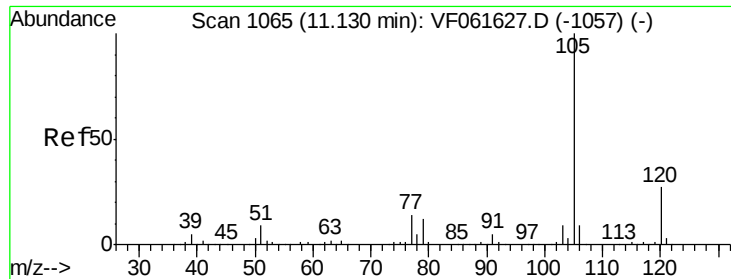


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





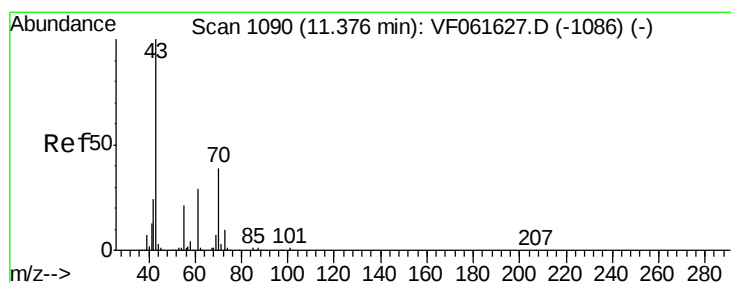
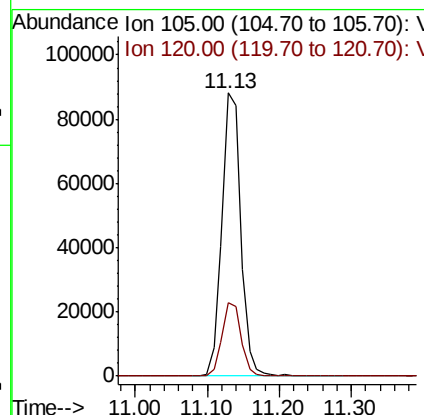
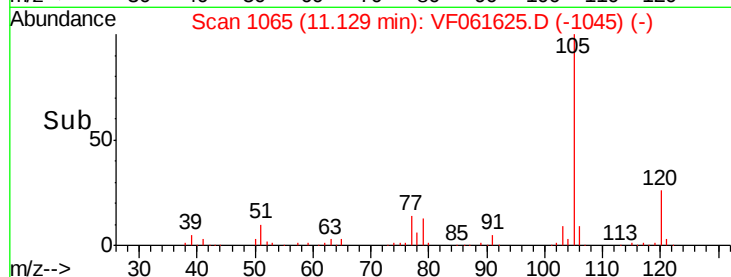
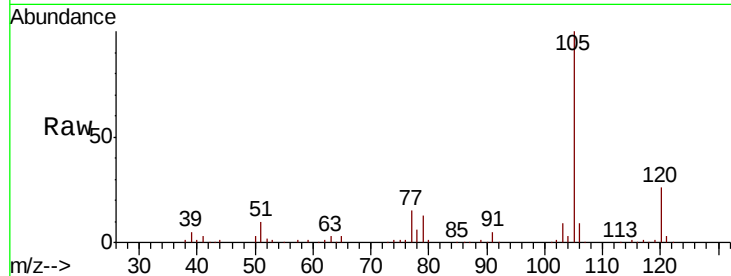
#73
Isopropylbenzene
Concen: 9.174 ug/l
RT: 11.13 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 105 Resp: 158991
Ion Ratio Lower Upper
105 100
120 25.9 13.4 40.1

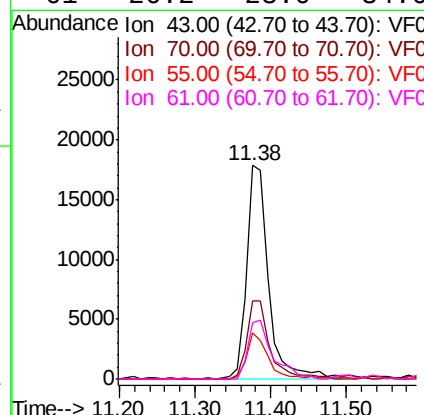
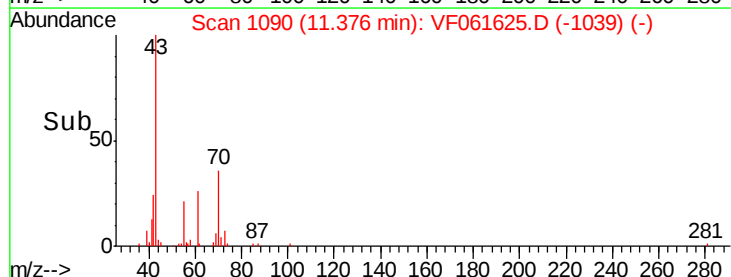
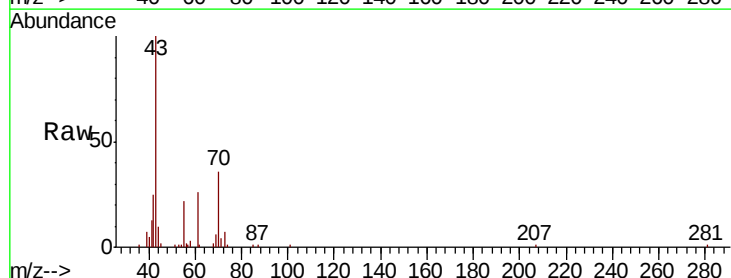
Manual Integrations
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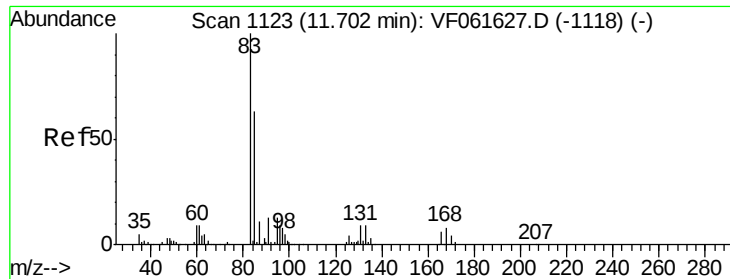
MMDadoda
2/14/2019 12:41:48 PM



#74
N-ethyl acetate
Concen: 8.218 ug/l
RT: 11.38 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion: 43 Resp: 35860
Ion Ratio Lower Upper
43 100
70 36.3 31.5 47.3
55 21.7 16.7 25.1
61 26.2 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 8.357 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

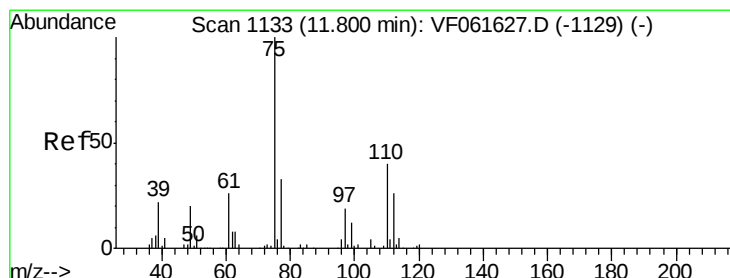
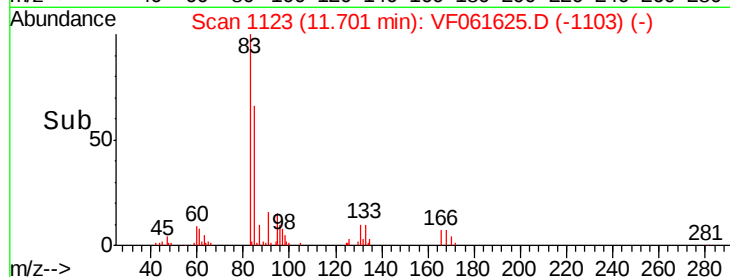
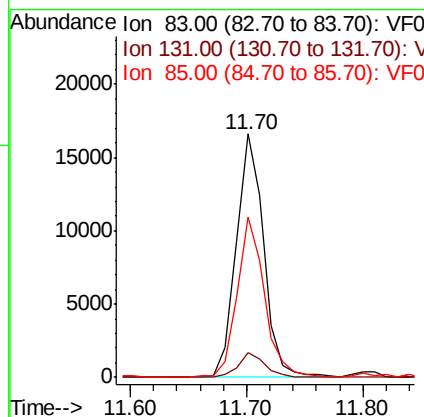
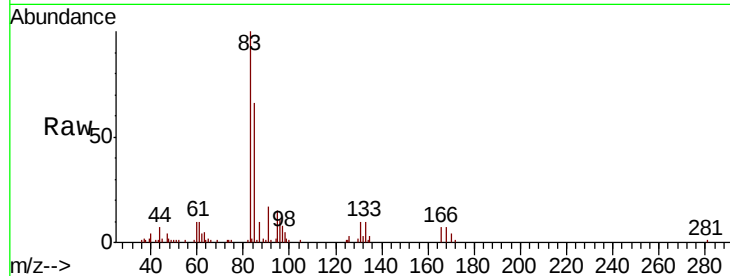
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	27034
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.4	13.2
85	66.0	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 8.099 ug/l

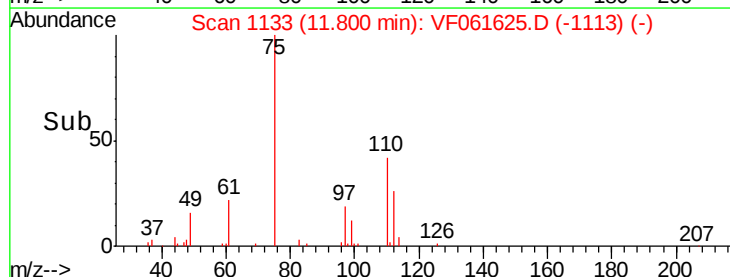
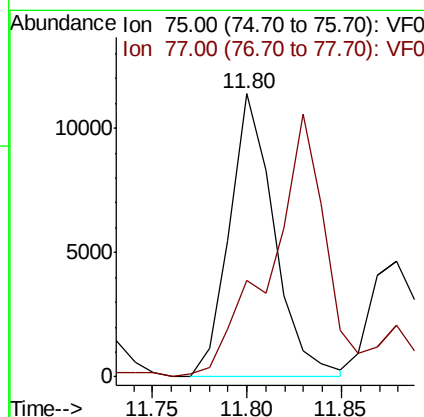
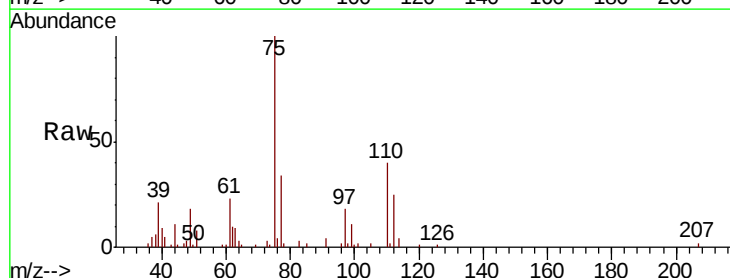
RT: 11.80 min Scan# 1133

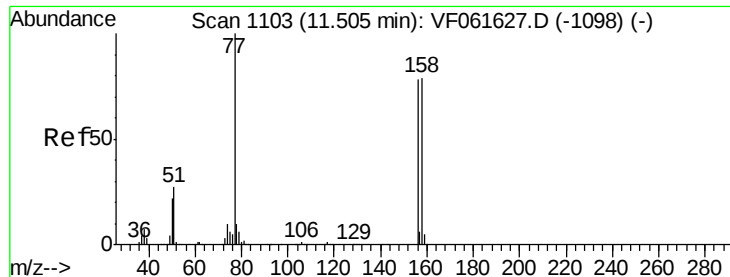
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	75	Resp:	18614
Ion Ratio	Lower	Upper	
75	100		
77	34.1	16.6	49.7





#77

Bromobenzene

Concen: 10.284 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

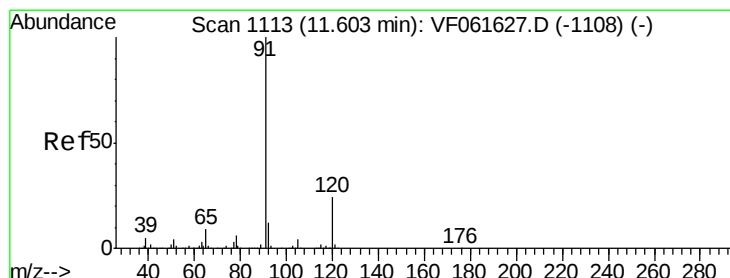
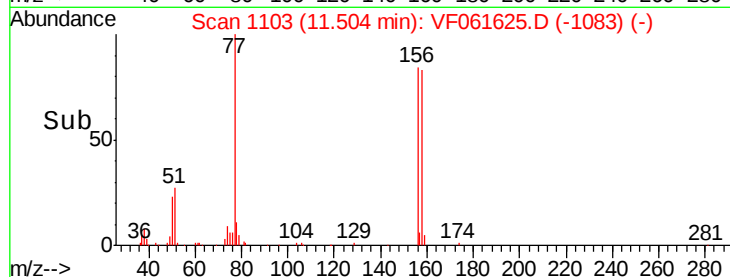
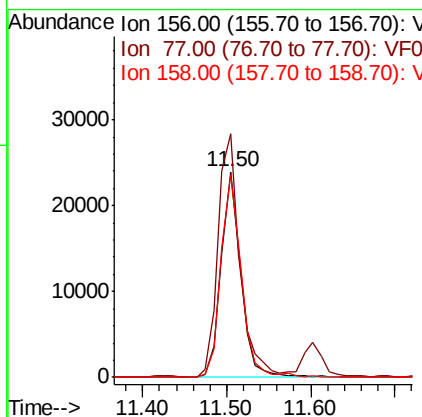
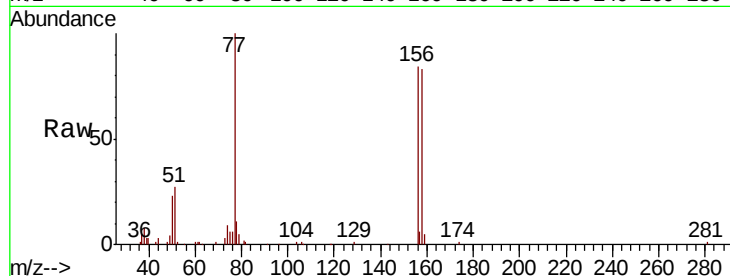
ClientSampleId :

VSTDIC010

Tot Ion:	156	Resp:	39213
Ion Ratio	Lower	Upper	
156	100		
77	118.6	64.3	192.7
158	99.0	50.9	152.7

Manual Integrations
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#78

n-propylbenzene

Concen: 8.899 ug/l

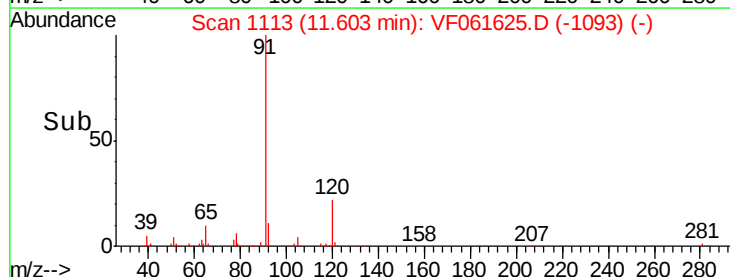
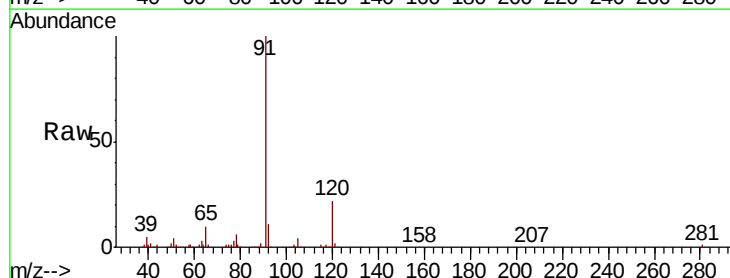
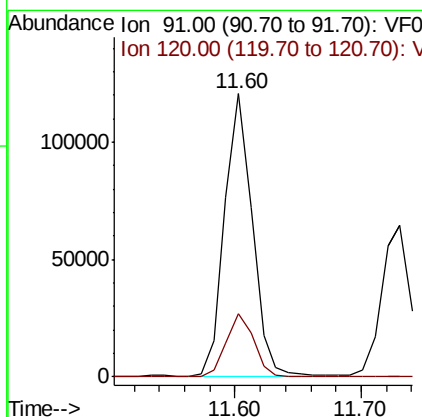
RT: 11.60 min Scan# 1113

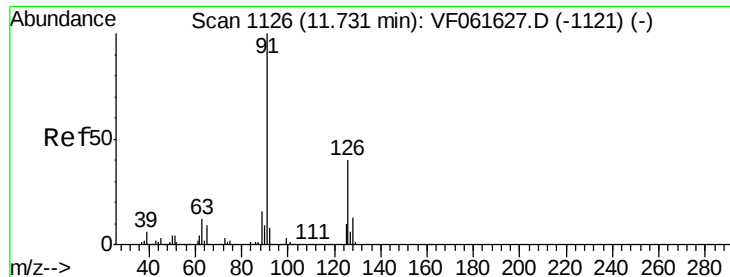
Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Tgt Ion:	91	Resp:	185248
Ion Ratio	Lower	Upper	
91	100		
120	22.2	12.1	36.3





#79

2-Chlorotoluene

Concen: 8.657 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 102617

Ion Ratio Lower Upper

91 100

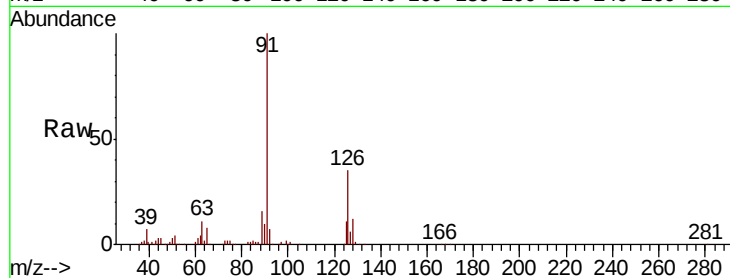
126 35.4 19.8 59.4

Manual Integrations

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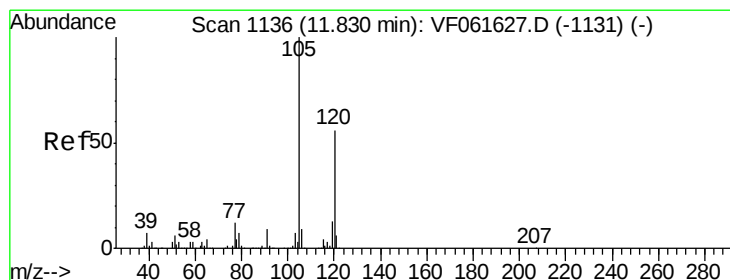
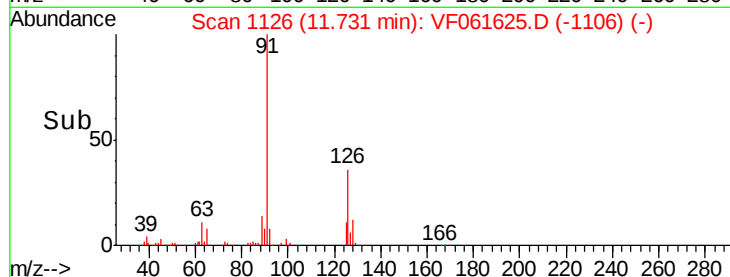
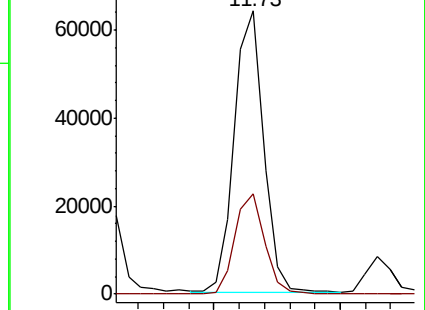
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Abundance Ion 91.00 (90.70 to 91.70): VF061627.D (-1121) (-)

Ion 126.00 (125.70 to 126.70): VF061627.D (-1121) (-)



#80

1,3,5-Trimethylbenzene

Concen: 8.893 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF061625.D

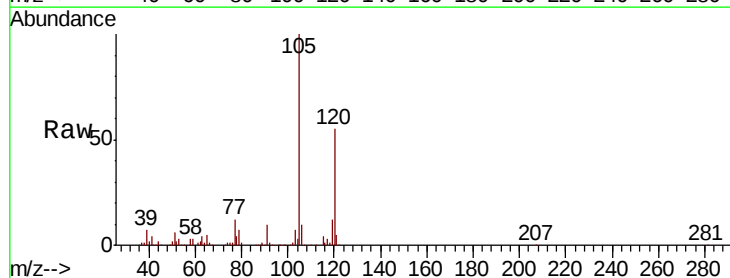
Acq: 13 Feb 2019 16:36

Tgt Ion: 105 Resp: 127149

Ion Ratio Lower Upper

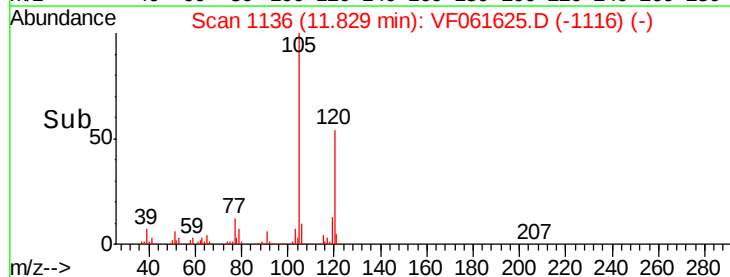
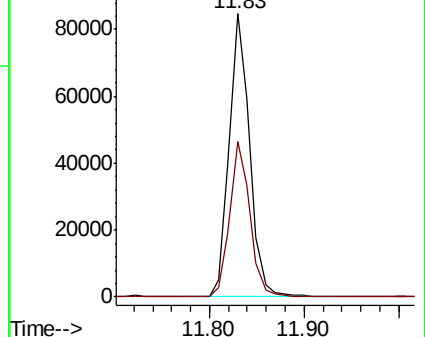
105 100

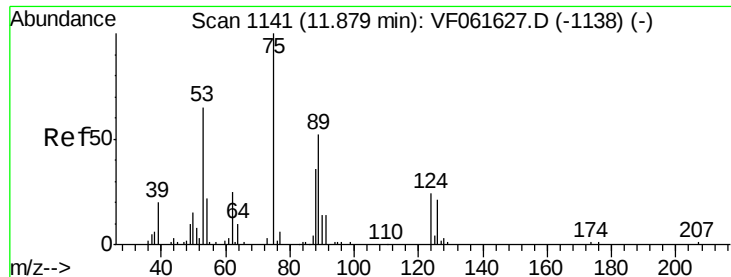
120 54.9 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): VF061627.D (-1131) (-)

Ion 120.00 (119.70 to 120.70): VF061627.D (-1131) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 9.157 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 8798

Ion Ratio Lower Upper

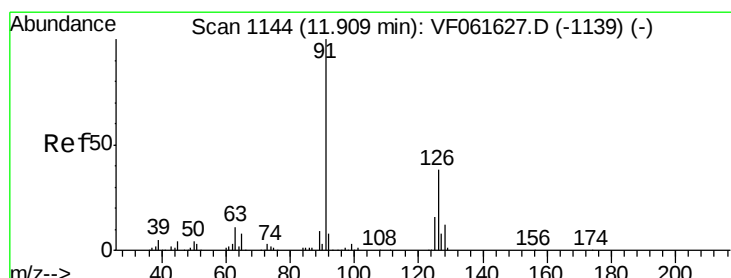
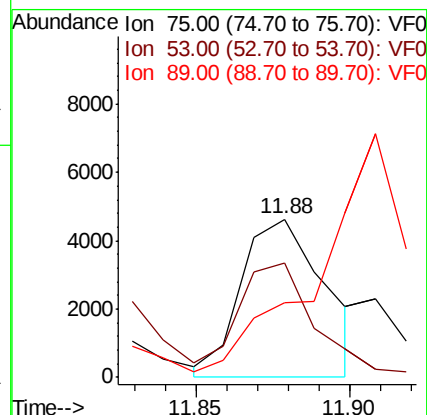
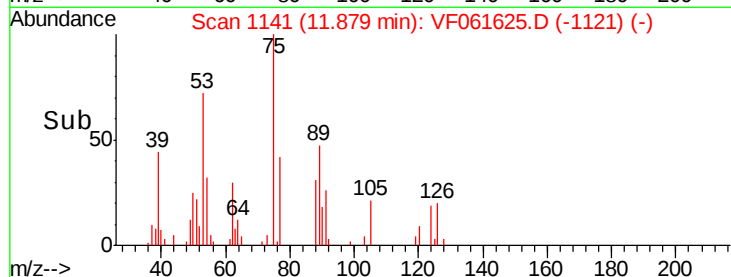
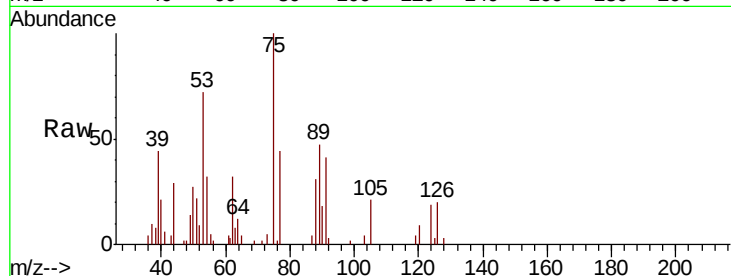
75 100

53 71.9 53.7 80.5

89 47.4 41.6 62.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 9.092 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF061625.D

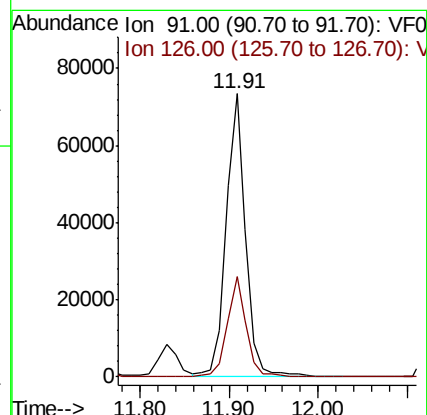
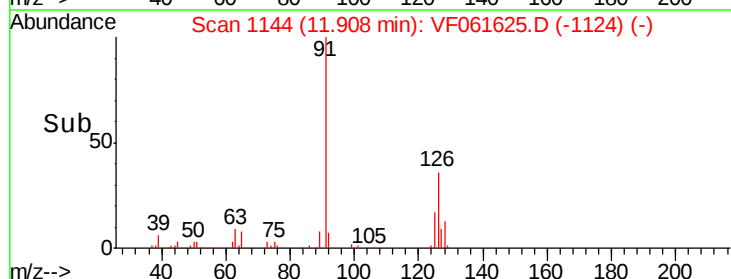
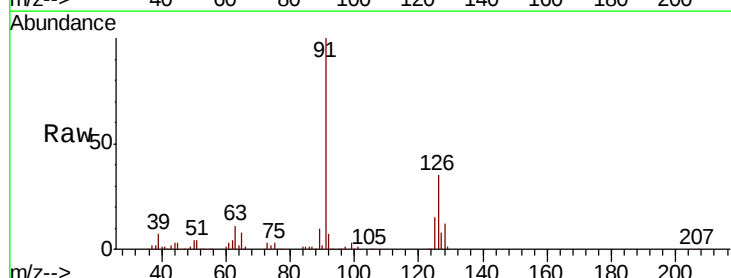
Acq: 13 Feb 2019 16:36

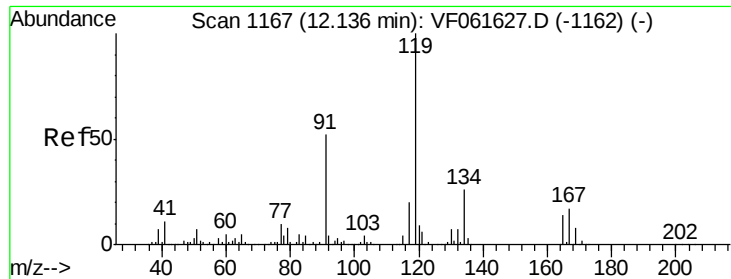
Tgt Ion: 91 Resp: 111970

Ion Ratio Lower Upper

91 100

126 35.3 19.1 57.1





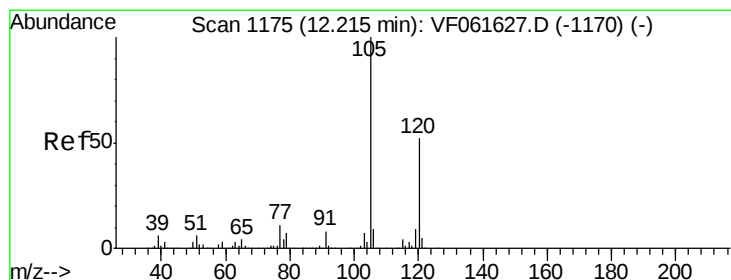
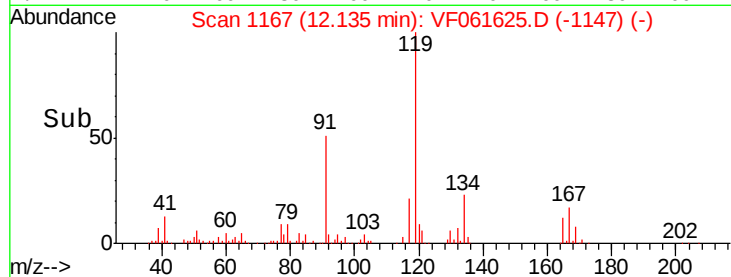
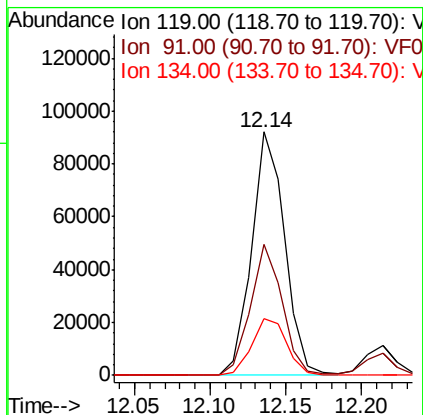
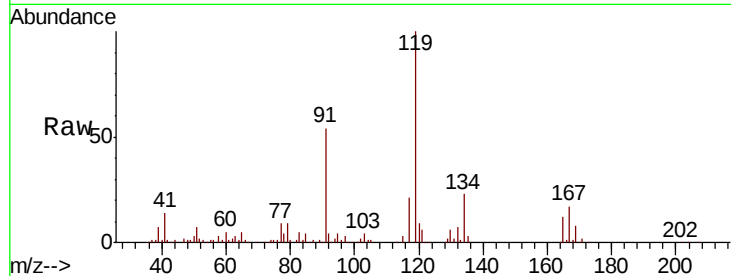
#83
tert-Butylbenzene
Concen: 9.592 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
119	100	141008		
91	53.8	26.3	78.8	
134	23.1	12.9	38.7	

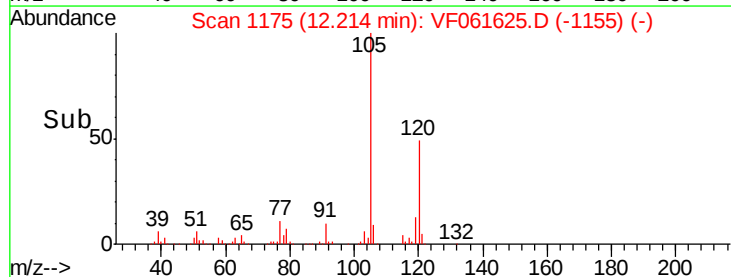
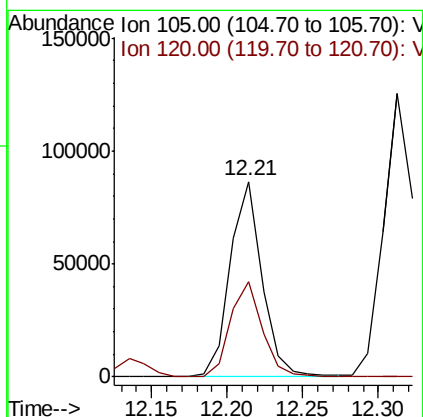
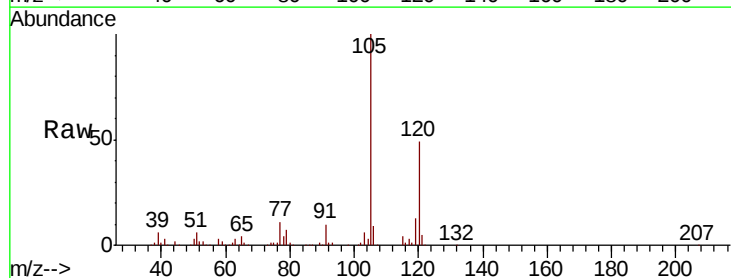
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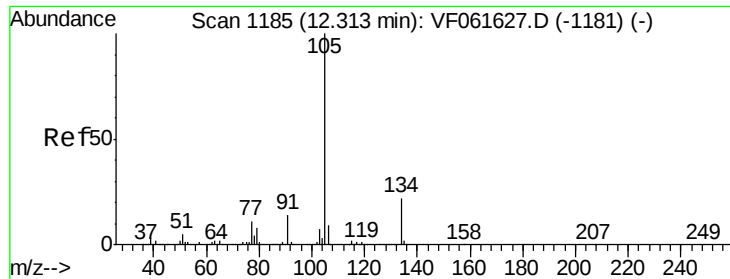
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 9.063 ug/l
RT: 12.21 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	127200		
120	49.1	26.1	78.3	





#85

sec-Butylbenzene

Concen: 9.165 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 180054

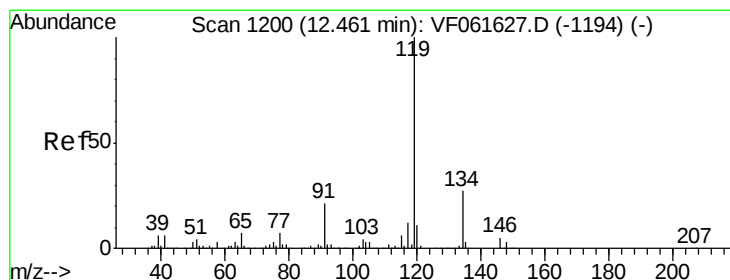
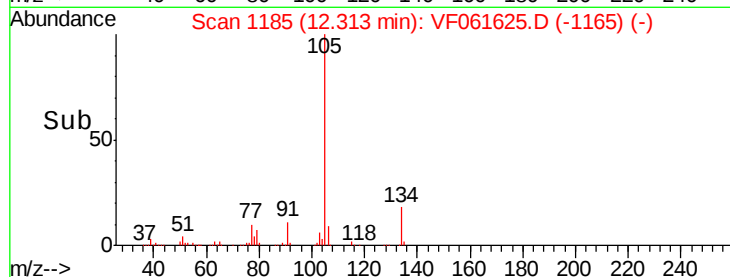
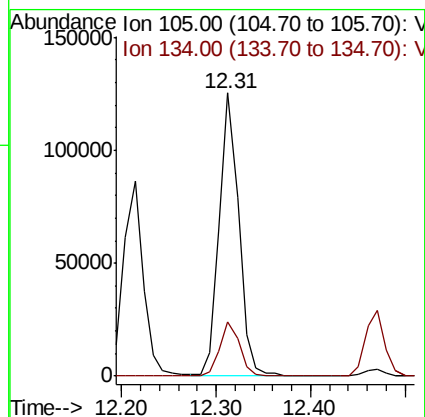
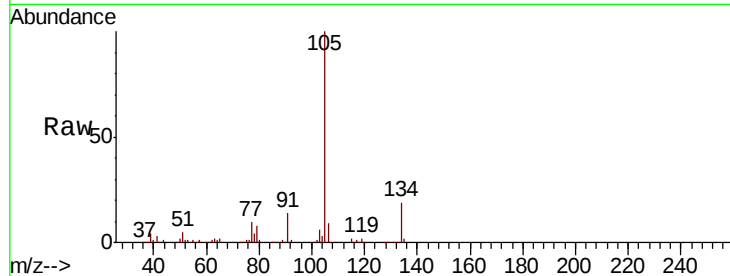
Ion Ratio Lower Upper

105 100

134 19.1 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 10.041 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061625.D

Acq: 13 Feb 2019 16:36

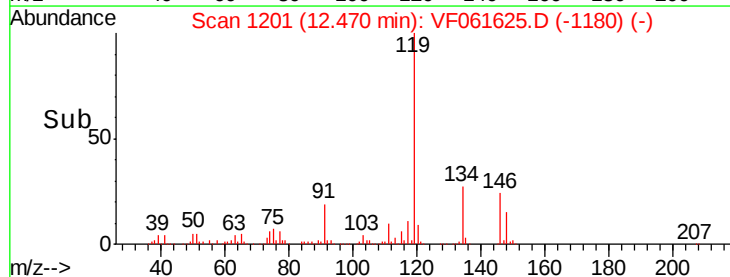
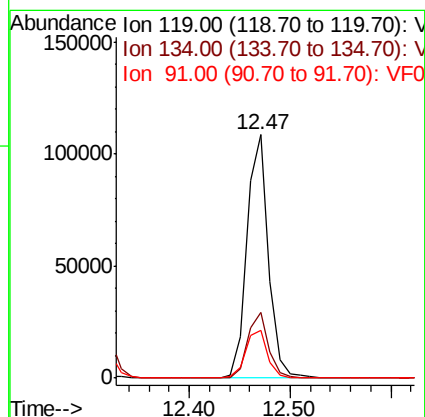
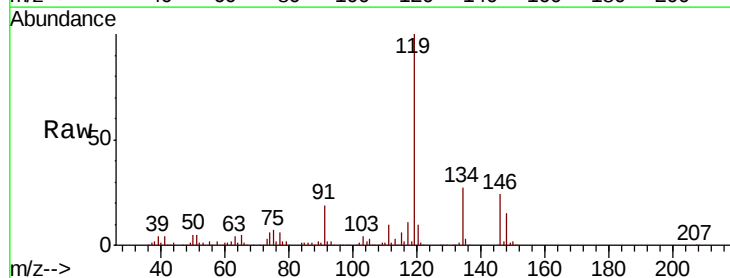
Tgt Ion:119 Resp: 161345

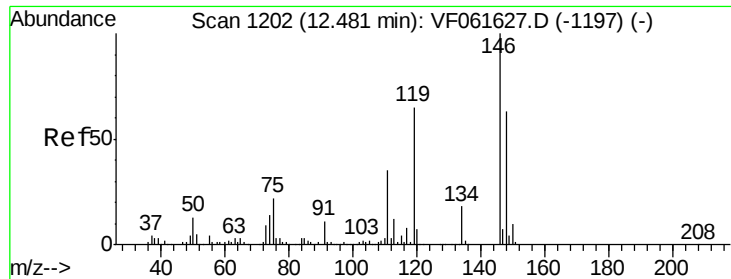
Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.1

91 19.4 10.8 32.4





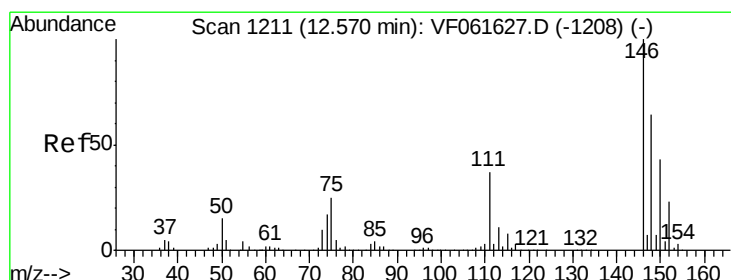
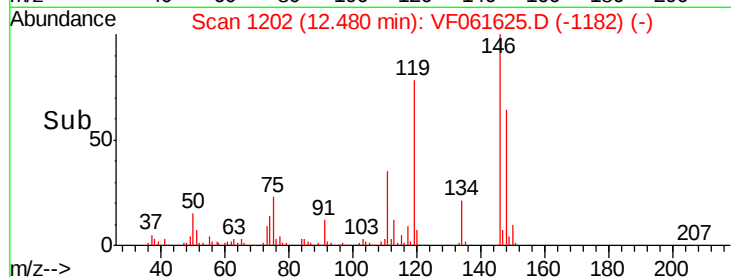
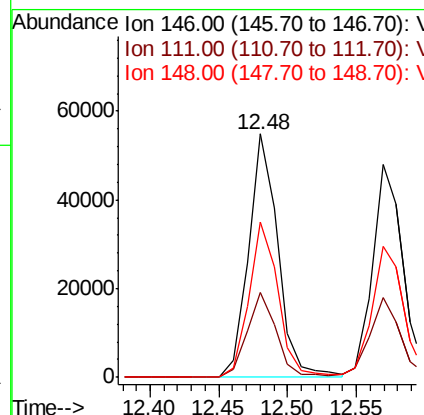
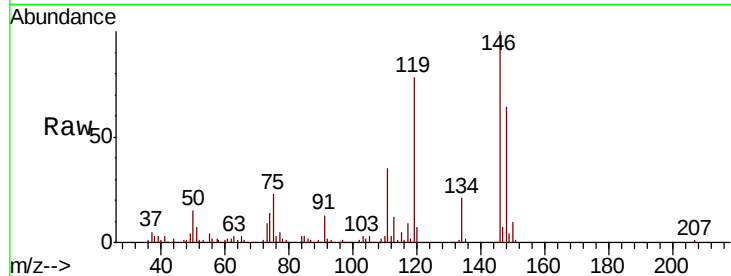
#87
 1,3-Dichlorobenzene
 Concen: 11.035 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.8	17.5	52.6
148	63.7	31.4	94.3

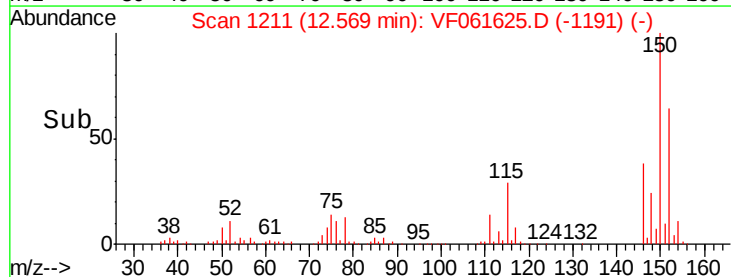
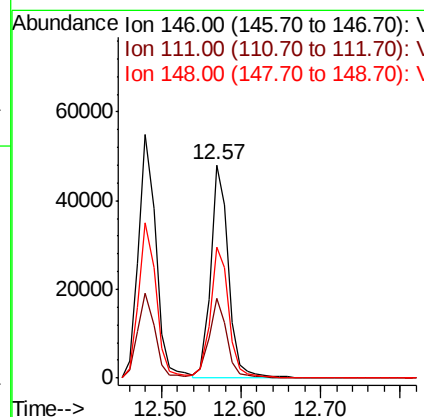
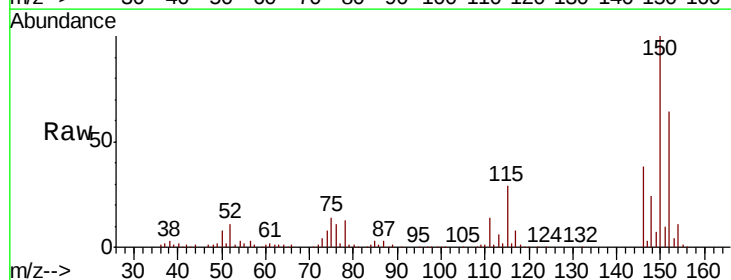
Manual Integrations
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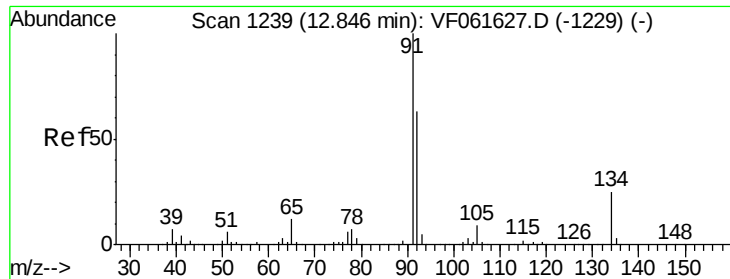
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#88
 1,4-Dichlorobenzene
 Concen: 10.685 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.4	55.4
148	61.8	32.2	96.6





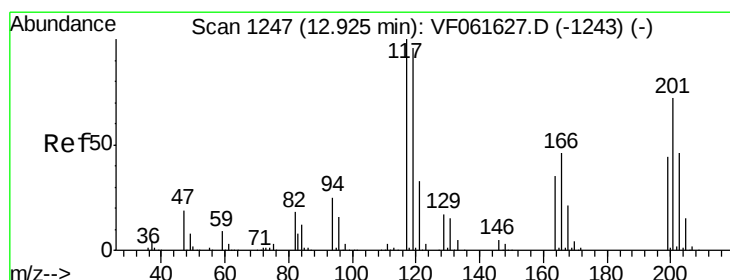
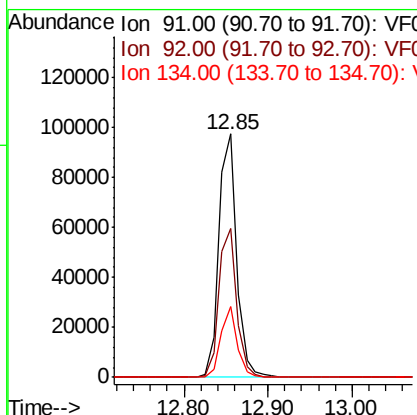
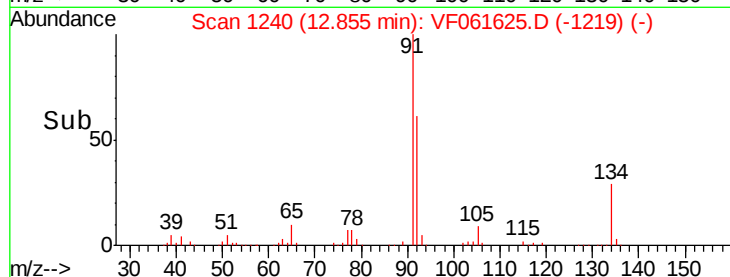
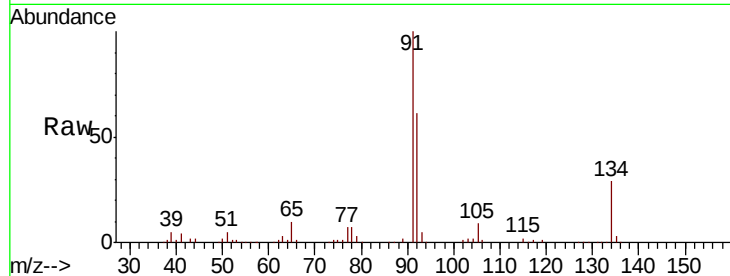
#89
n-Butylbenzene
Concen: 8.793 ug/l
RT: 12.85 min Scan# 1240
Delta R.T. 0.01 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.0	31.4	94.3
134	29.3	12.3	36.9

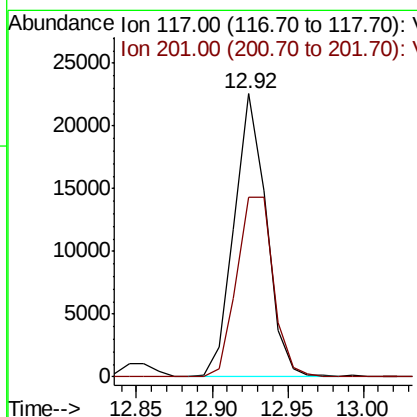
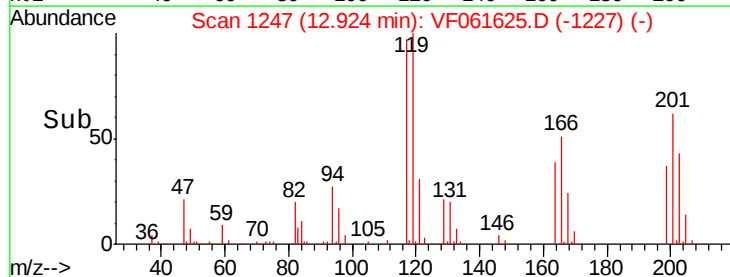
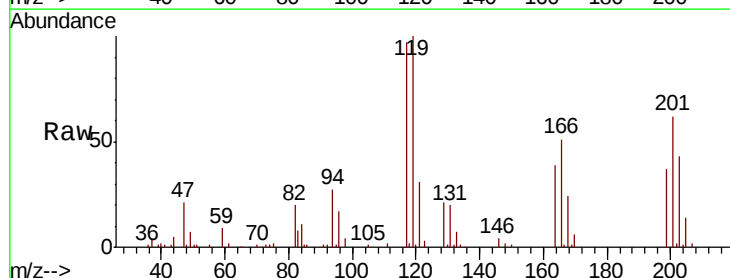
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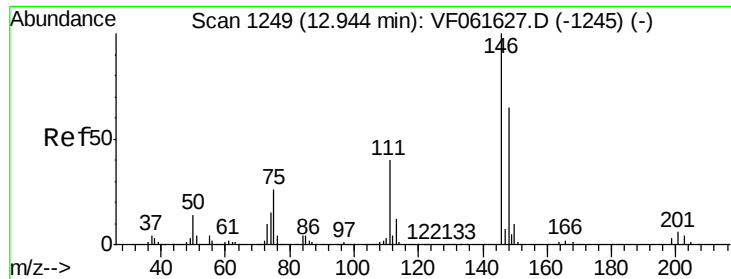
MMDadoda
2/14/2019 12:41:48 PM



#90
Hexachloroethane
Concen: 8.175 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.6	36.2	108.6





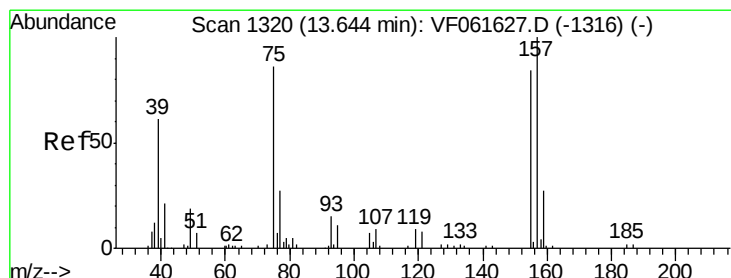
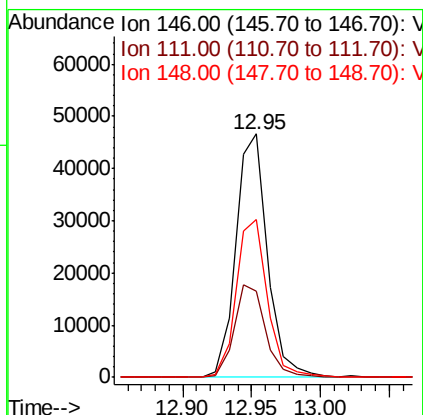
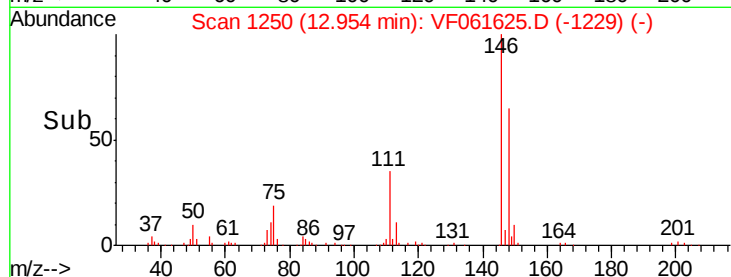
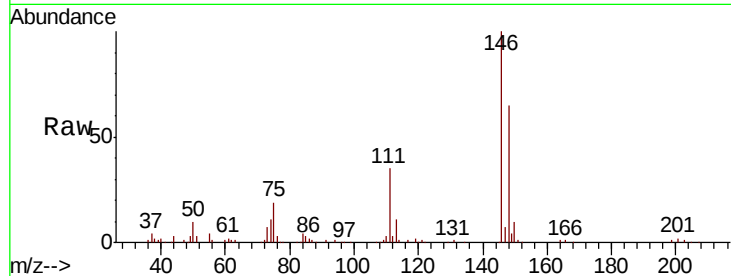
#91
 1,2-Dichlorobenzene
 Concen: 10.813 ug/l
 RT: 12.95 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.3	20.2	60.5
148	65.1	32.3	96.9

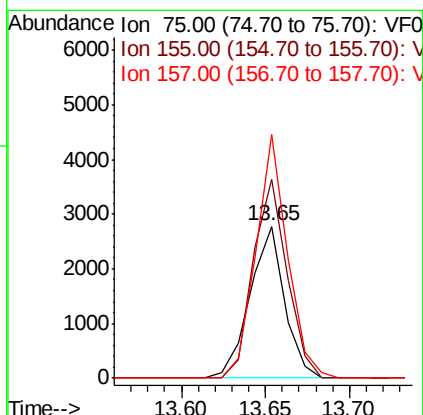
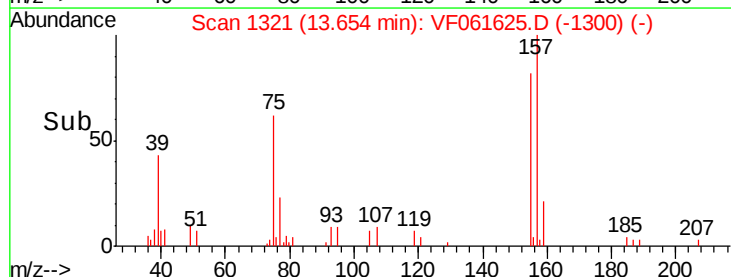
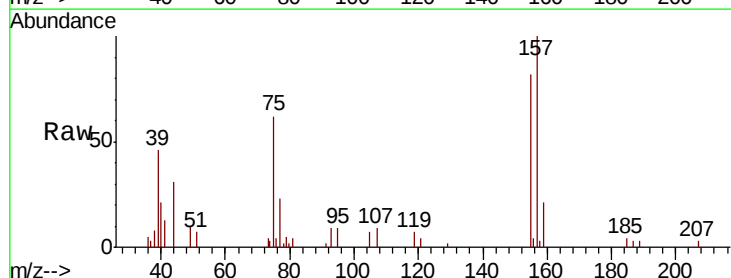
Manual Integrations
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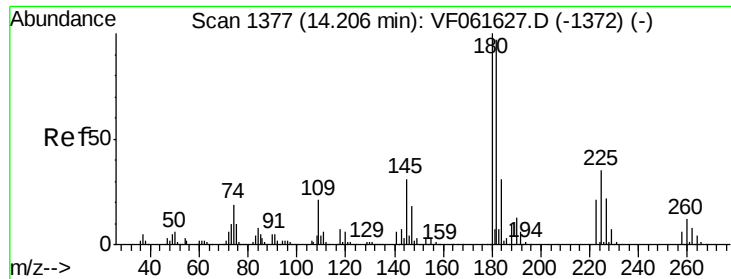
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.058 ug/l
 RT: 13.65 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF061625.D
 Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	130.9	48.9	146.8
157	160.3	58.3	174.8





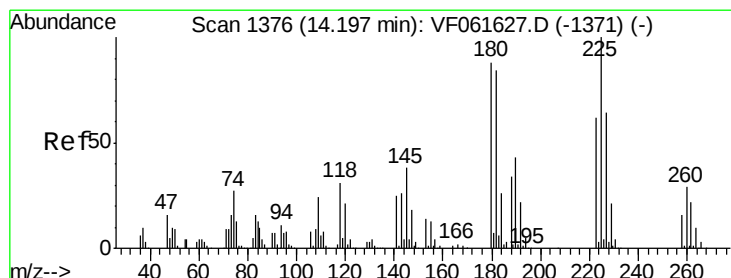
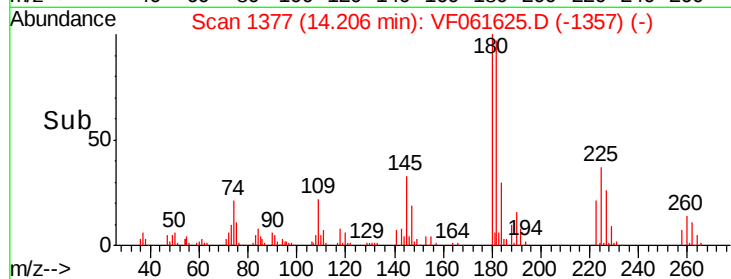
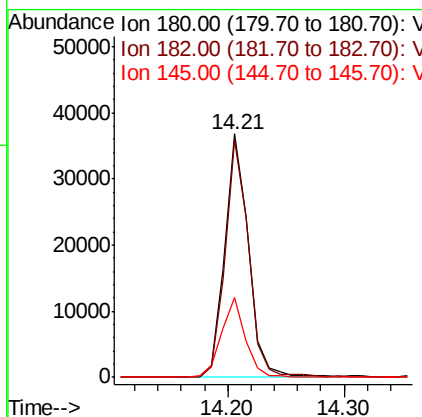
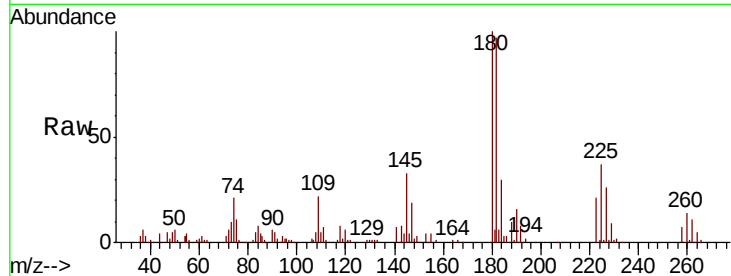
#93
1,2,4-Trichlorobenzene
Concen: 10.741 ug/l
RT: 14.21 min Scan# 1377
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	48.6	145.9
145	32.6	15.3	45.9

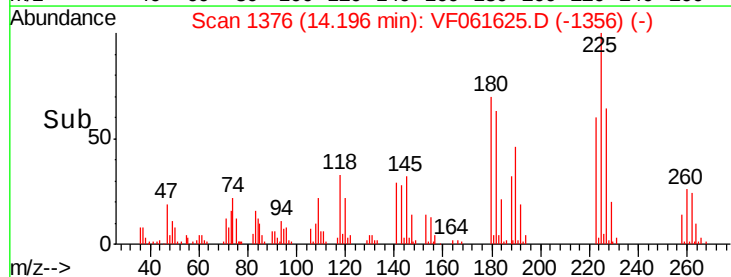
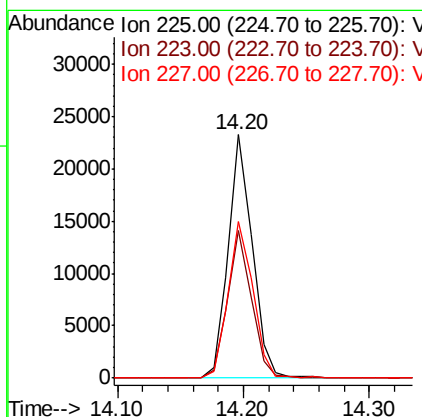
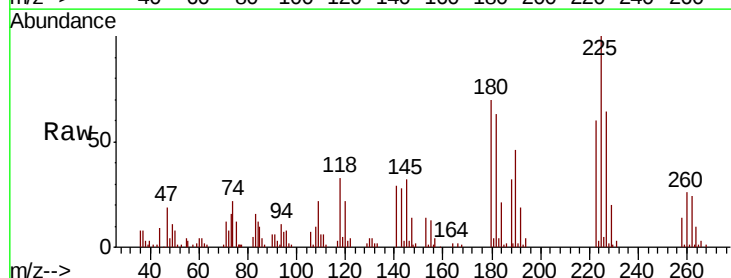
Manual Integrations
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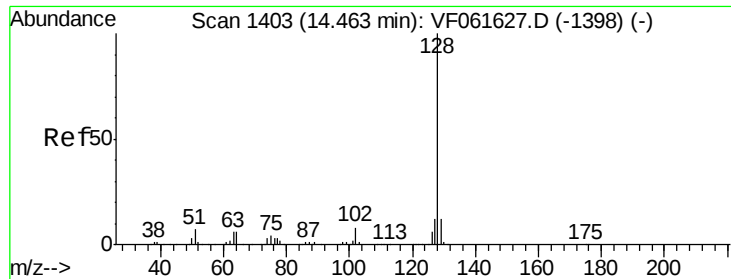
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#94
Hexachlorobutadiene
Concen: 10.285 ug/l
RT: 14.20 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.9	92.7
227	64.2	32.1	96.3





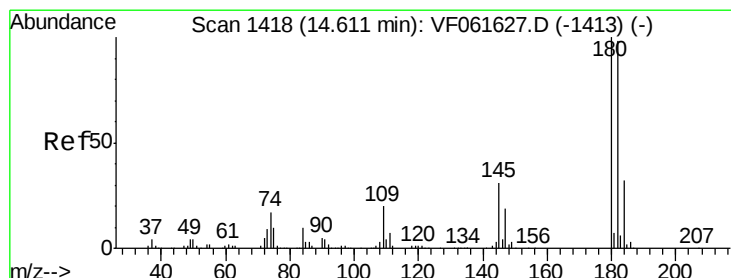
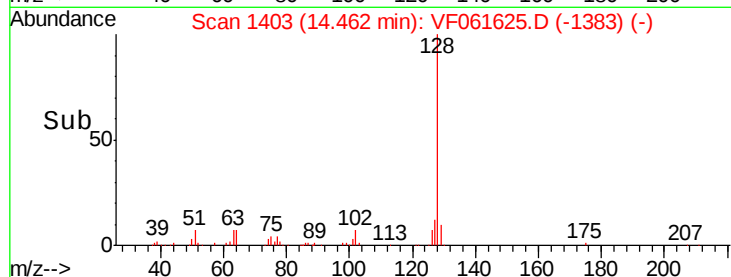
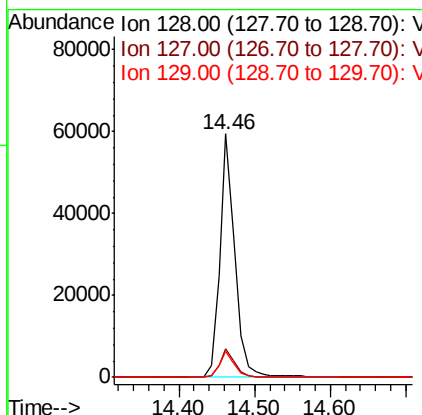
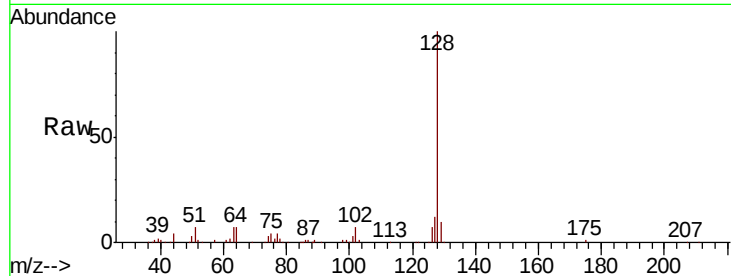
#95
Naphthalene
Concen: 9.089 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	9.8	14.6
129	10.5	9.4	14.2

Manual Integrations
APPROVED

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2/14/2019 12:41:48 PM



#96
1,2,3-Trichlorobenzene
Concen: 10.412 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. -0.00 min
Lab File: VF061625.D
Acq: 13 Feb 2019 16:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	49.0	147.2
145	30.4	15.4	46.1

