

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021319\
 Data File : VF061624.D
 Acq On : 13 Feb 2019 16:08
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

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

Quant Time: Feb 14 03:20:52 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	315580	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	453059	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	385693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	232256	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	11727	2.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	5.98%	
35) Dibromofluoromethane	4.12	113	18347	5.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.30%	
50) Toluene-d8	7.56	98	52032	5.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.68%	
62) 4-Bromofluorobenzene	11.41	95	22051	5.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.24%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	17797	3.214	ug/l	88
3) Chloromethane	1.09	50	18514	4.269	ug/l	99
4) Vinyl Chloride	1.14	62	16804	4.458	ug/l	88
5) Bromomethane	1.32	94	11361	4.055	ug/l	97
6) Chloroethane	1.39	64	8901	5.070	ug/l #	75
7) Trichlorofluoromethane	1.49	101	21983m	3.322	ug/l	
8) Diethyl Ether	1.63	74	5839	5.635	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.83	101	16853	4.717	ug/l	98
10) Methyl Iodide	1.91	142	29722m	5.042	ug/l	
11) Tert butyl alcohol	2.58	59	3401	20.441	ug/l #	86
12) 1,1-Dichloroethene	1.80	96	14380	4.926	ug/l	85
13) Acrolein	2.01	56	4131m	22.402	ug/l	
14) Allyl chloride	2.10	41	16405	3.866	ug/l	89
15) Acrylonitrile	2.94	53	12679	27.702	ug/l	99
16) Acetone	2.24	43	12018	20.355	ug/l #	86
17) Carbon Disulfide	1.83	76	42495m	4.777	ug/l	
18) Methyl Acetate	2.35	43	6328m	5.016	ug/l	
19) Methyl tert-butyl Ether	2.43	73	22016	3.704	ug/l	94
20) Methylene Chloride	2.19	84	19306m	5.567	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	15604	5.175	ug/l	90
22) Diisopropyl ether	2.80	45	39731	4.090	ug/l #	95
23) Vinyl Acetate	3.19	43	89058	18.706	ug/l	96
24) 1,1-Dichloroethane	2.88	63	24376	4.154	ug/l	98
25) 2-Butanone	4.35	43	28355	23.586	ug/l	91
26) 2,2-Dichloropropane	3.61	77	10442	3.652	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	19443	4.538	ug/l	96
28) Bromochloromethane	3.72	49	12047	4.130	ug/l #	90
29) Tetrahydrofuran	4.10	42	12423	22.061	ug/l	93
30) Chloroform	3.87	83	28147	3.542	ug/l	86
31) Cyclohexane	3.69	56	27136m	4.658	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	15427	2.877	ug/l	94
36) 1,1-Dichloropropene	4.29	75	25010	4.943	ug/l	91
37) Ethyl Acetate	4.12	43	11981	5.386	ug/l #	86
38) Carbon Tetrachloride	4.00	117	15658	3.784	ug/l	95

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Manual Integrations
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MMDadoda
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 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)
39) Methylcyclohexane	5.47	83	27514	5.354	ug/l	98
40) Benzene	4.64	78	59859	5.279	ug/l	98
41) Methacrylonitrile	4.76	41	5288	4.743	ug/l #	86
42) 1,2-Dichloroethane	4.95	62	14071	3.587	ug/l	97
43) Isopropyl Acetate	6.97	43	13225	5.237	ug/l #	96
44) Trichloroethene	5.51	130	21083	6.088	ug/l	91
45) 1,2-Dichloropropane	6.25	63	13115	4.484	ug/l	95
46) Dibromomethane	6.10	93	7968	4.170	ug/l	86
47) Bromodichloromethane	6.40	83	19671	4.081	ug/l #	99
48) Methyl methacrylate	6.73	41	7632	4.524	ug/l #	89
49) 1,4-Dioxane	6.73	88	1321	111.544	ug/l #	67
51) 4-Methyl-2-Pentanone	8.27	43	45733	24.077	ug/l	94
52) Toluene	7.64	92	37862	5.348	ug/l	97
53) t-1,3-Dichloropropene	8.29	75	14984	4.017	ug/l	91
54) cis-1,3-Dichloropropene	7.31	75	21406	4.528	ug/l	97
55) 1,1,2-Trichloroethane	8.50	97	10831	4.945	ug/l #	88
56) Ethyl methacrylate	8.63	69	11748	4.838	ug/l	88
57) 1,3-Dichloropropane	8.86	76	17453	4.578	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.30	63	9199	22.459	ug/l #	83
59) 2-Hexanone	9.50	43	31560	24.531	ug/l	100
60) Dibromochloromethane	8.72	129	14404	4.734	ug/l	91
61) 1,2-Dibromoethane	9.00	107	11187	4.897	ug/l	86
64) Tetrachloroethene	8.16	164	17267	5.917	ug/l	89
65) Chlorobenzene	9.81	112	41508	5.533	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	16665	5.386	ug/l	95
67) Ethyl Benzene	9.91	91	75096	5.498	ug/l	97
68) m/p-Xylenes	10.14	106	58021	12.245	ug/l	94
69) o-Xylene	10.72	106	27616	5.285	ug/l	99
70) Styrene	10.79	104	41366	5.717	ug/l	95
71) Bromoform	10.78	173	8547	5.836	ug/l	93
73) Isopropylbenzene	11.13	105	85507	4.763	ug/l	98
74) N-amyl acetate	11.38	43	19761	4.372	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.70	83	15279	4.560	ug/l	95
76) 1,2,3-Trichloropropane	11.80	75	10882	4.571	ug/l	84
77) Bromobenzene	11.50	156	20729	5.248	ug/l	95
78) n-propylbenzene	11.60	91	105843	4.908	ug/l	100
79) 2-Chlorotoluene	11.73	91	56421	4.595	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	68409	4.619	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.88	75	4886m	4.909	ug/l	
82) 4-Chlorotoluene	11.91	91	59192	4.640	ug/l	99
83) tert-Butylbenzene	12.13	119	76536	5.026	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	71928	4.947	ug/l	97
85) sec-Butylbenzene	12.31	105	101515	4.988	ug/l	95
86) p-Isopropyltoluene	12.47	119	85626	5.144	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	44573	5.806	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	41247	5.648	ug/l	98
89) n-Butylbenzene	12.85	91	83671	4.964	ug/l	94
90) Hexachloroethane	12.92	117	18270	4.328	ug/l	88
91) 1,2-Dichlorobenzene	12.95	146	40674	5.689	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.65	75	2497	4.298	ug/l	93

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ALS Vial : 3 Sample Multiplier: 1

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MSVOA_F
ClientSampleId :
VSTDICC005

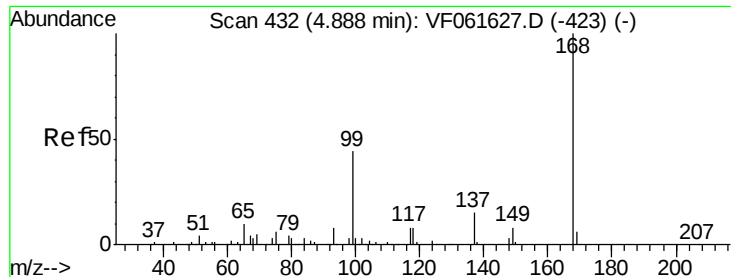
Manual Integrations
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MMDadoda
2/14/2019 12:41:41 PM

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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)
93) 1,2,4-Trichlorobenzene	14.21	180	28693	5.715	ug/l	94
94) Hexachlorobutadiene	14.20	225	17725	5.723	ug/l	99
95) Naphthalene	14.46	128	44210	4.658	ug/l	96
96) 1,2,3-Trichlorobenzene	14.61	180	24651	5.466	ug/l	93

(#) = 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: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 31580

Ion Ratio Lower Upper

168 100

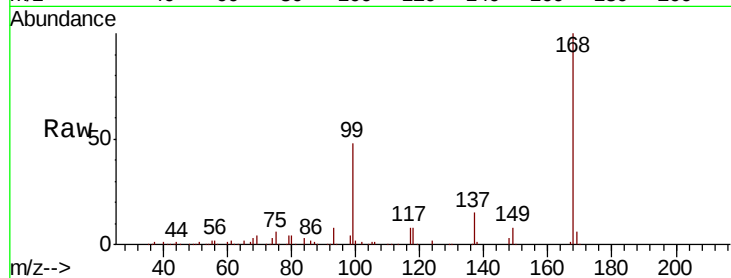
99 48.2 34.9 52.3

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

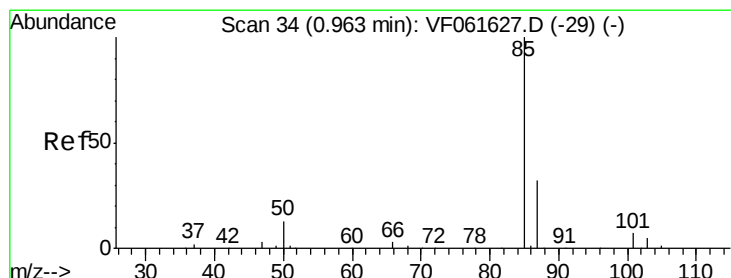
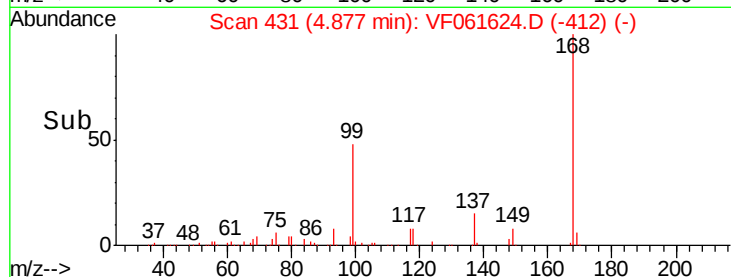
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 3.214 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061624.D

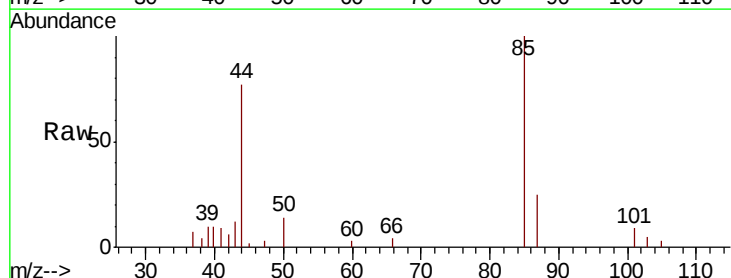
Acq: 13 Feb 2019 16:08

Tgt Ion: 85 Resp: 17797

Ion Ratio Lower Upper

85 100

87 25.4 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

5000

4000

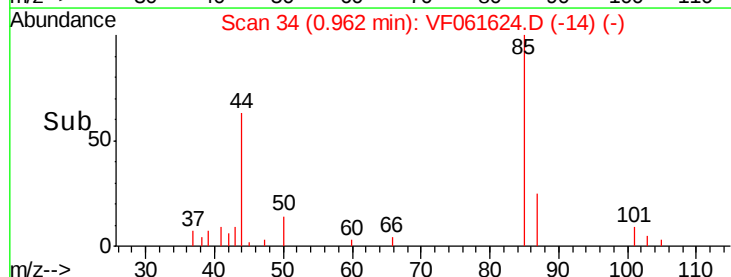
3000

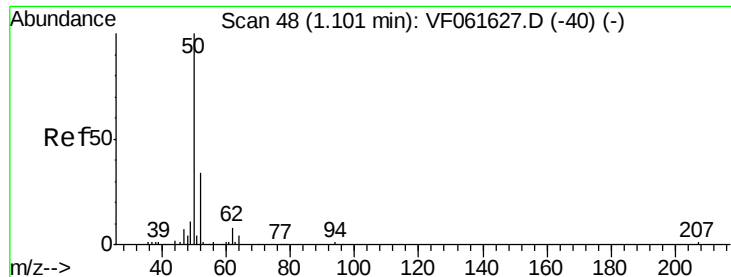
2000

1000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 4.269 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 18514

Ion Ratio Lower Upper

50 100

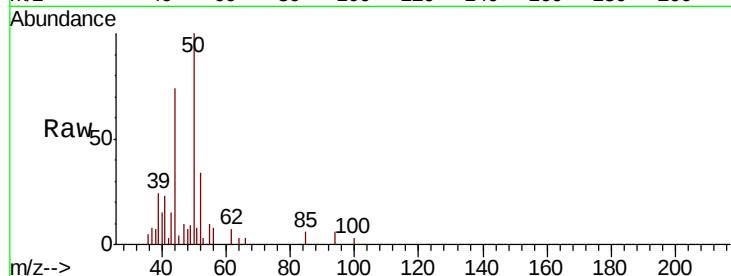
52 33.5 26.2 39.4

Manual Integrations

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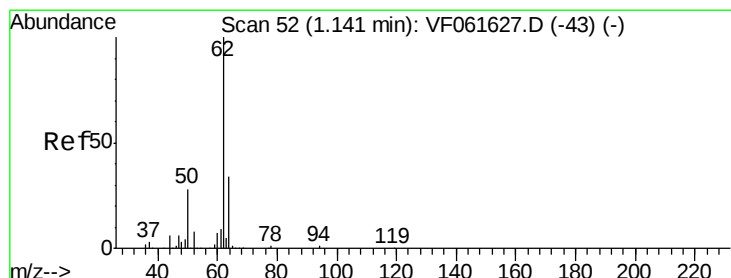
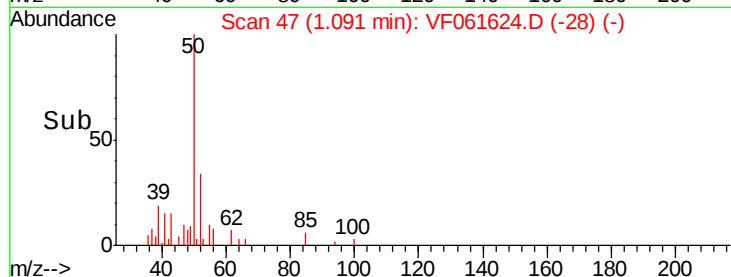
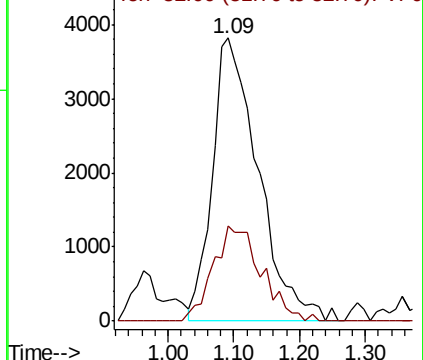
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 4.458 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061624.D

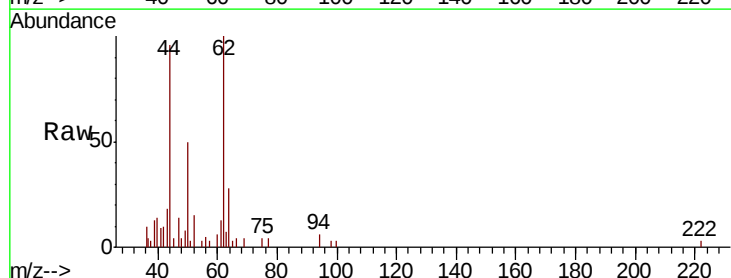
Acq: 13 Feb 2019 16:08

Tgt Ion: 62 Resp: 16804

Ion Ratio Lower Upper

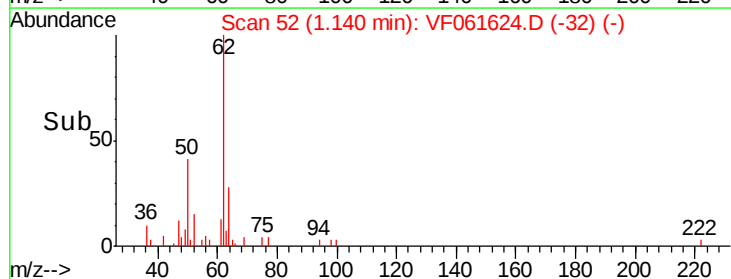
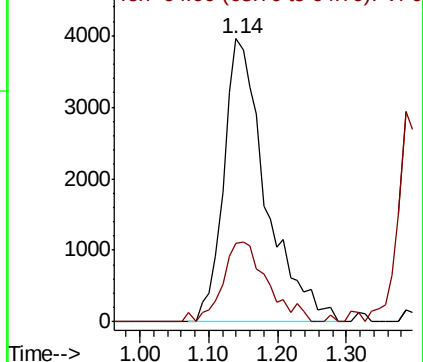
62 100

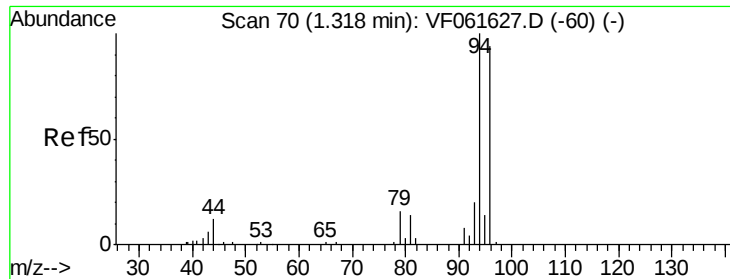
64 27.8 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 4.055 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 11361

Ion Ratio Lower Upper

94 100

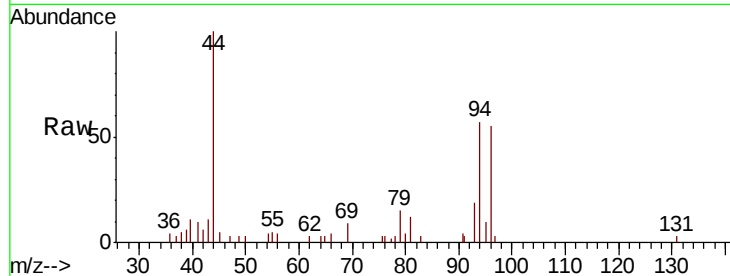
96 96.4 74.6 112.0

Manual Integrations

APPROVED

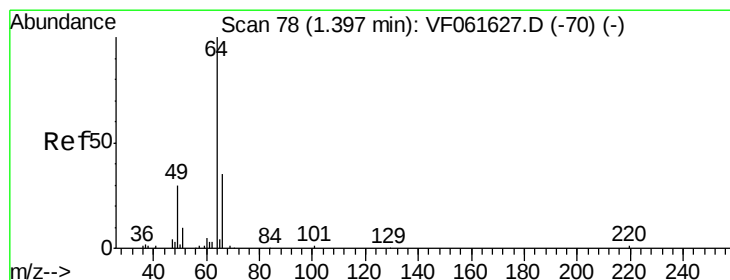
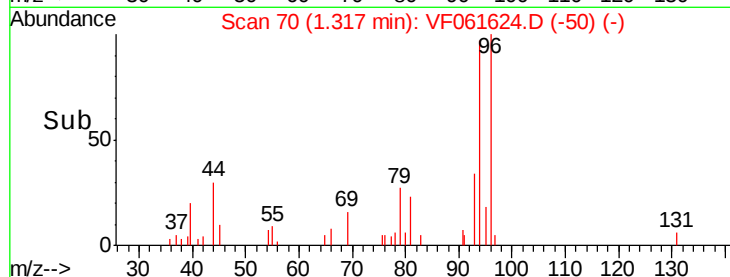
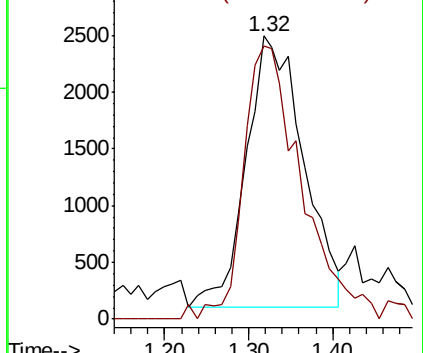
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 5.070 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061624.D

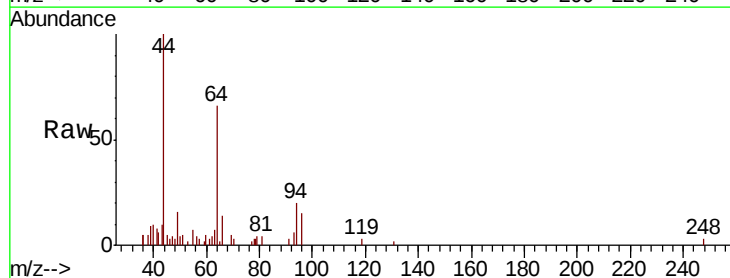
Acq: 13 Feb 2019 16:08

Tgt Ion: 64 Resp: 8901

Ion Ratio Lower Upper

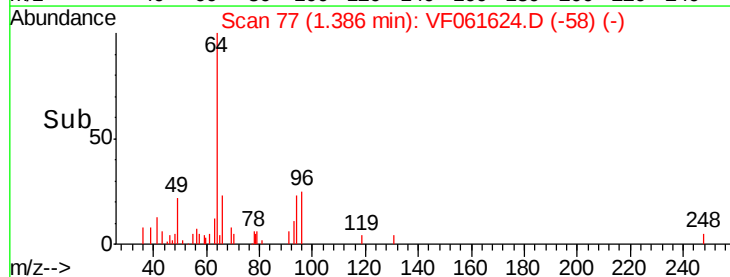
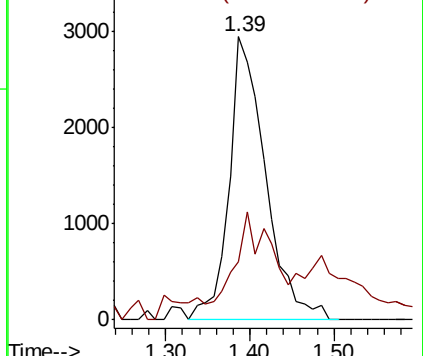
64 100

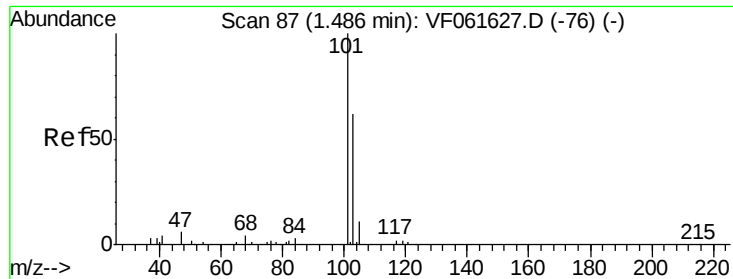
66 20.5 27.9 41.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

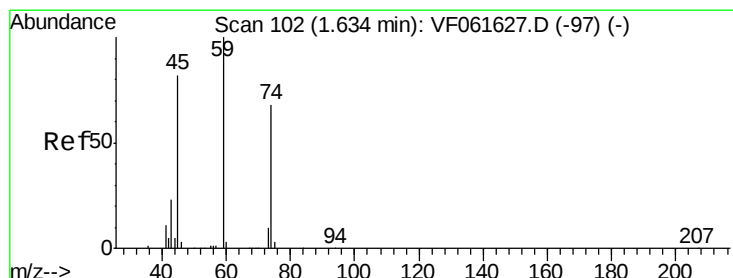
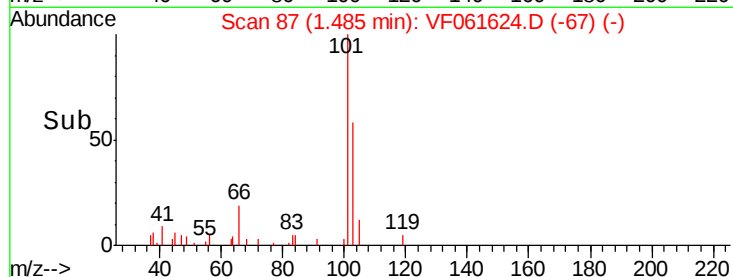
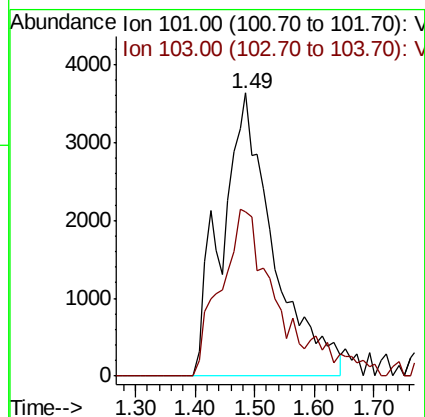
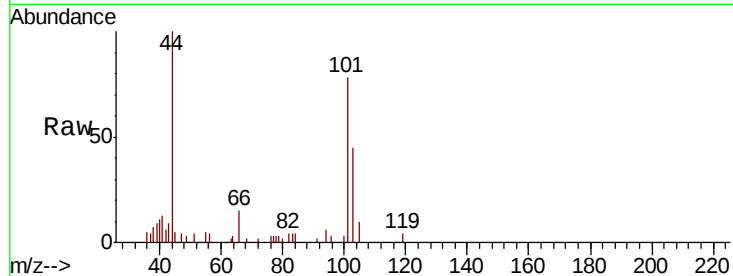
Trichlorofluoromethane
Concen: 3.322 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	57.9	49.3	73.9

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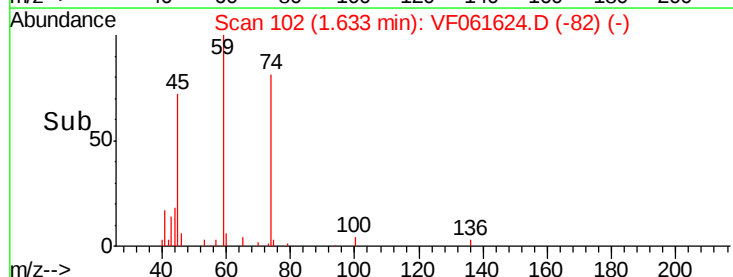
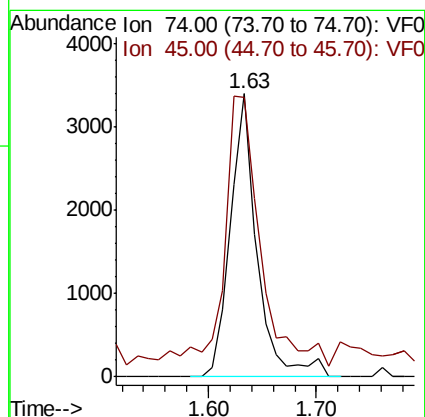
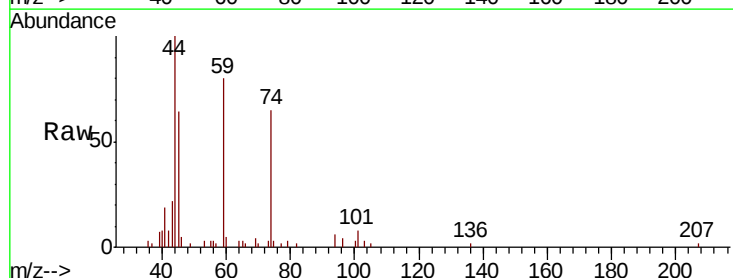
MMDadoda
2/14/2019 12:41:41 PM

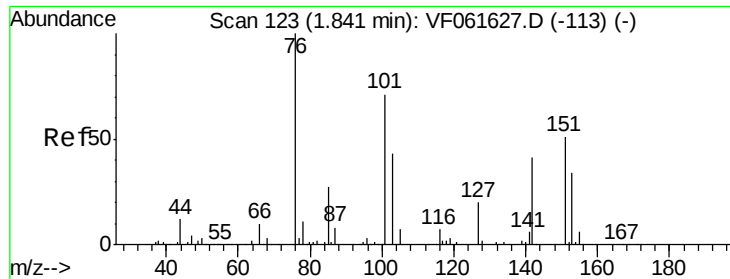


#8

Diethyl Ether
Concen: 5.635 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.8	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.717 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

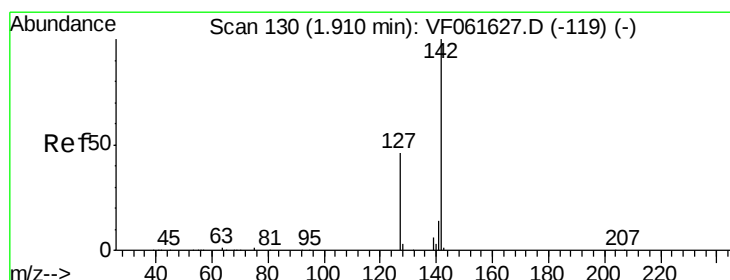
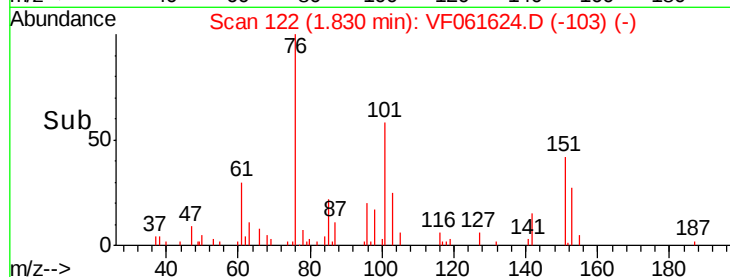
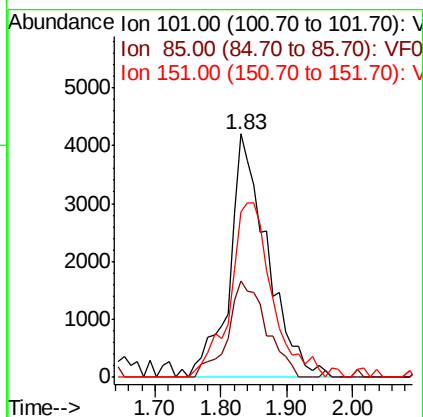
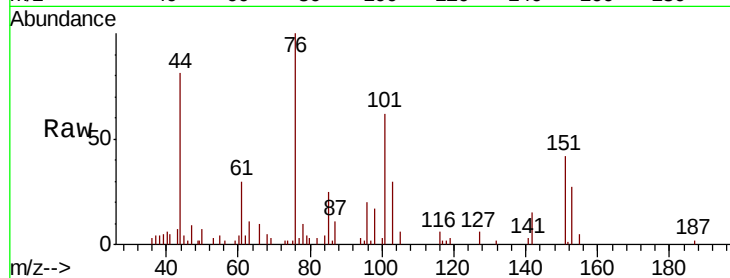
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	16853
Ion Ratio	Lower	Upper	
101	100		
85	39.8	29.8	44.6
151	70.4	56.3	84.5

Manual Integrations
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#10

Methyl Iodide

Concen: 5.042 ug/l m

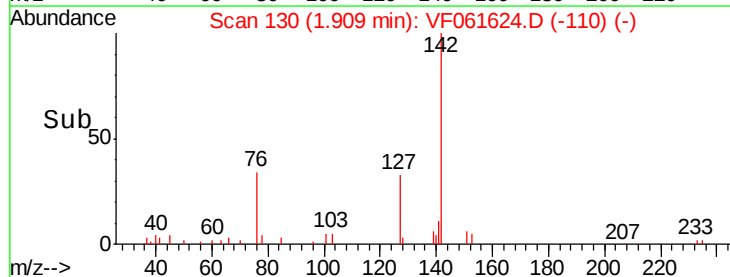
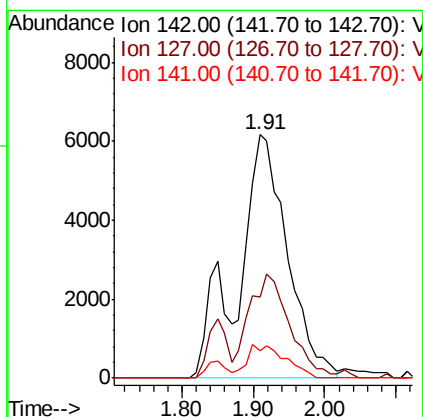
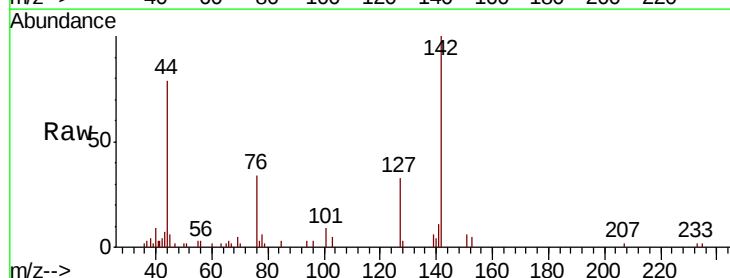
RT: 1.91 min Scan# 130

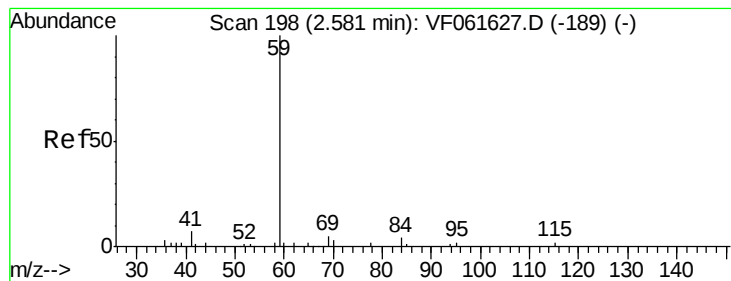
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	142	Resp:	29722
Ion Ratio	Lower	Upper	
142	100		
127	33.5	36.6	55.0#
141	11.0	11.0	16.6#





#11

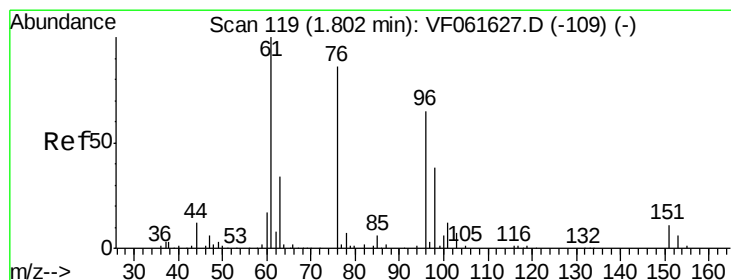
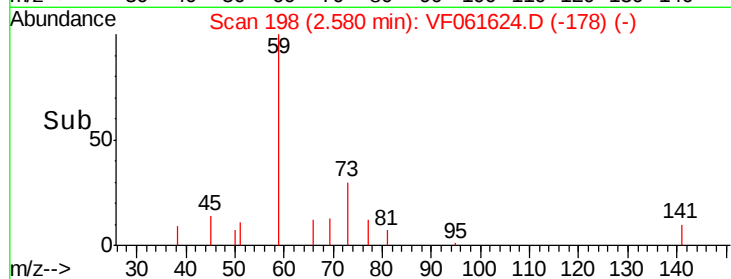
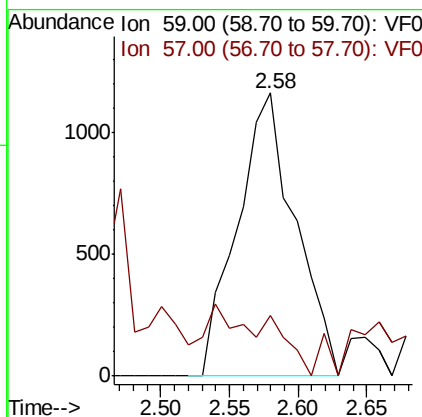
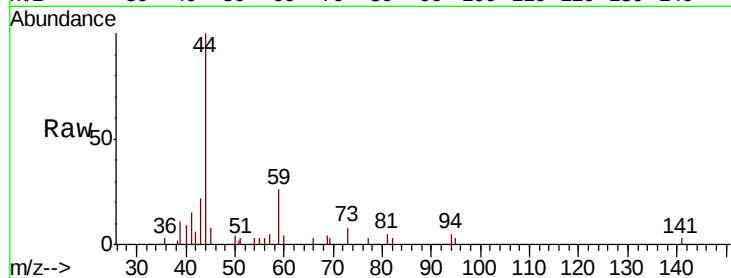
Tert butyl alcohol
Concen: 20.441 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	21.4	12.5	18.7#

Manual Integrations
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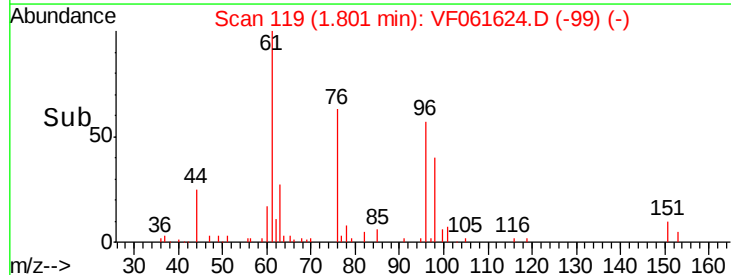
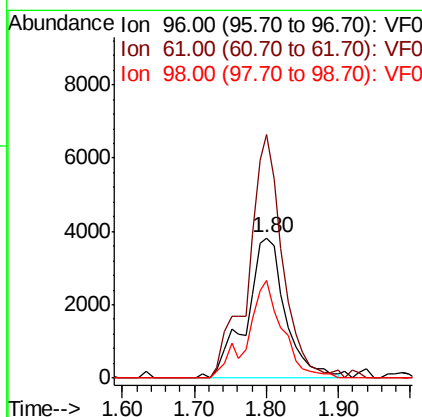
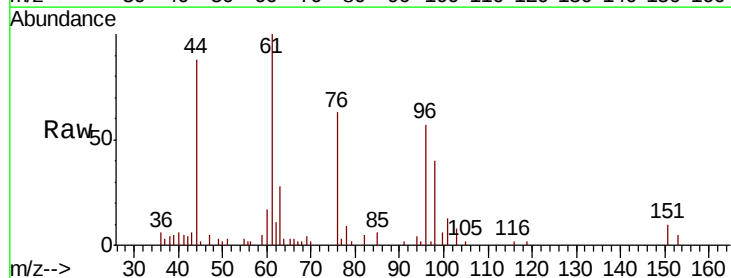
MMDadoda
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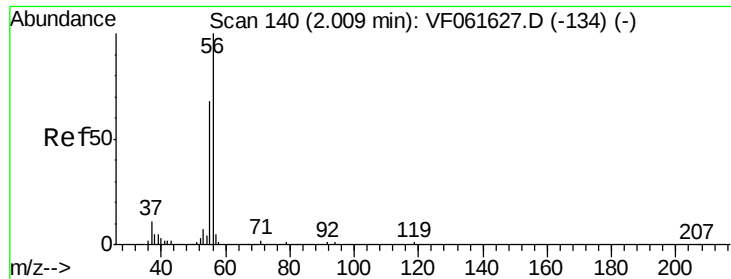


#12

1,1-Dichloroethene
Concen: 4.926 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.0	122.6	184.0
98	69.4	47.2	70.8





#13

Acrolein

Concen: 22.402 ug/l m

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 4131

Ion Ratio Lower Upper

56 100

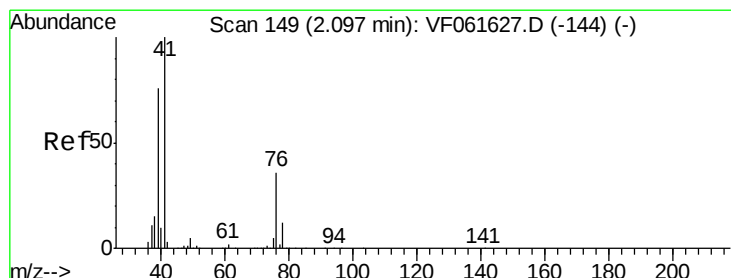
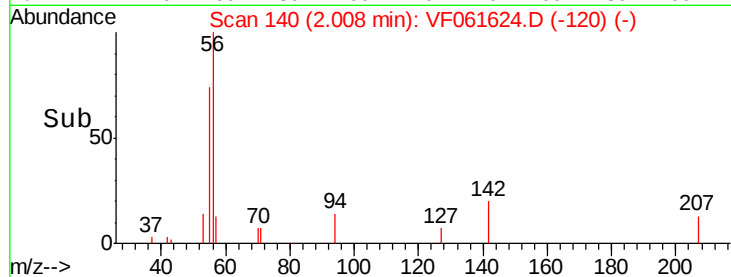
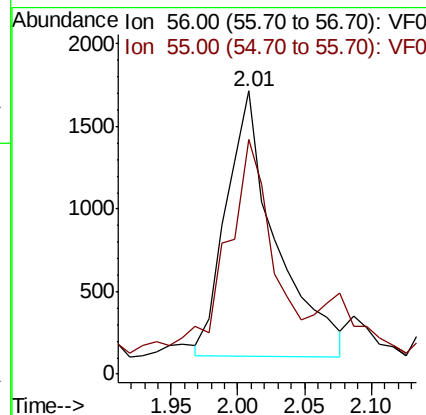
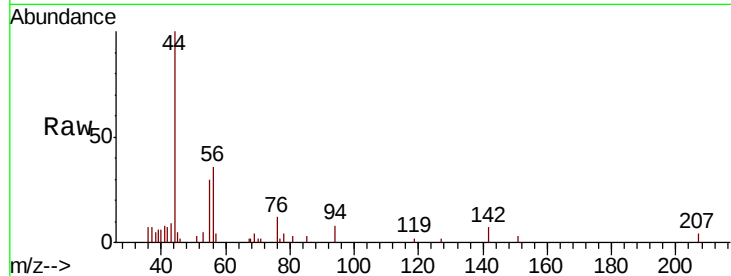
55 83.1 55.0 82.6#

Manual Integrations

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#14

Allyl chloride

Concen: 3.866 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

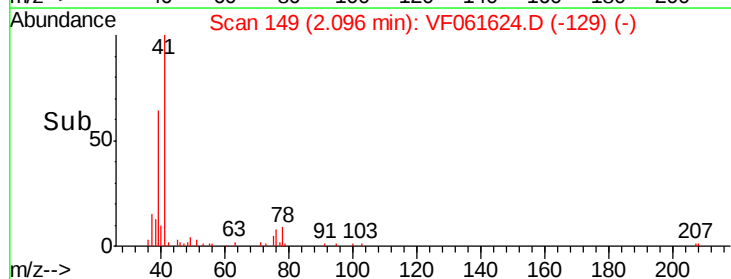
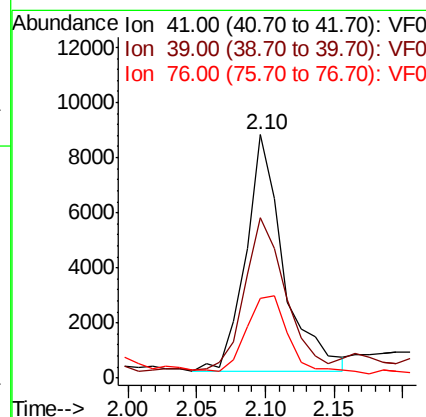
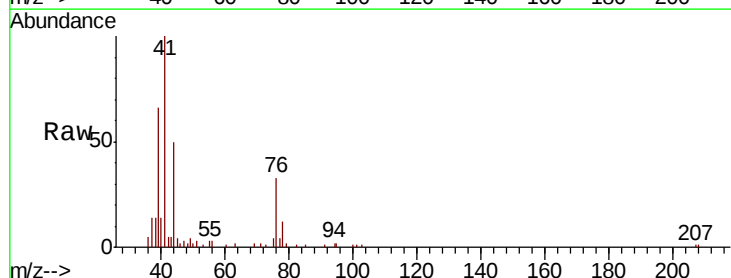
Tgt Ion: 41 Resp: 16405

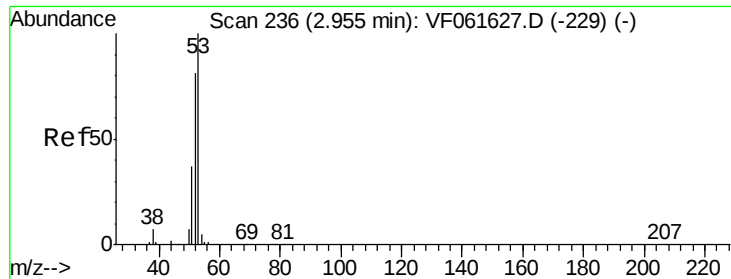
Ion Ratio Lower Upper

41 100

39 65.9 61.6 92.4

76 32.9 30.3 45.5





#15

Acrylonitrile

Concen: 27.702 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

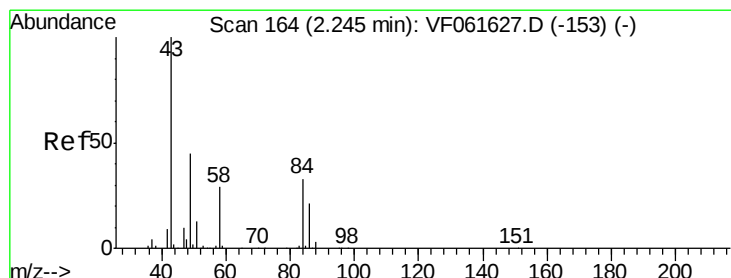
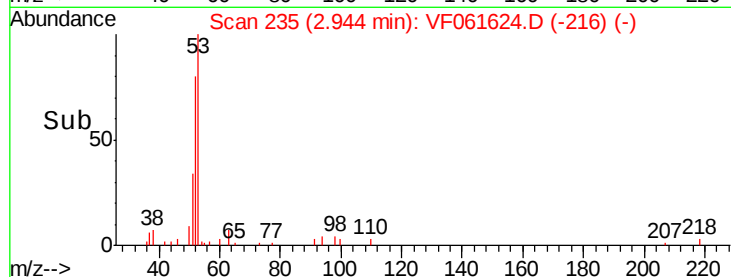
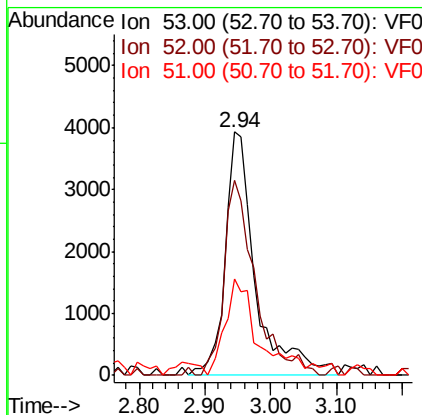
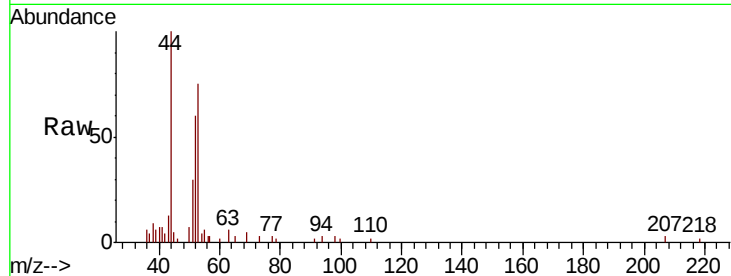
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	12679
Ion Ratio	Lower	Upper	
53	100		
52	80.3	64.6	97.0
51	39.3	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 20.355 ug/l

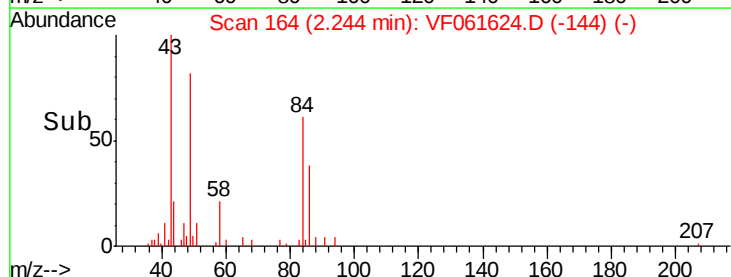
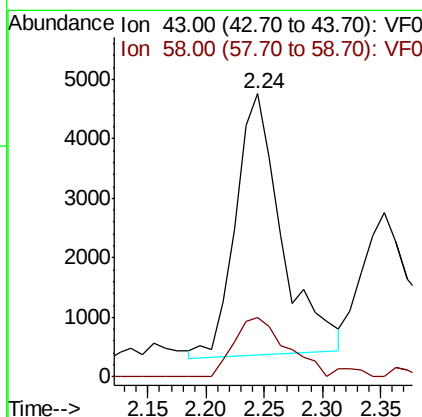
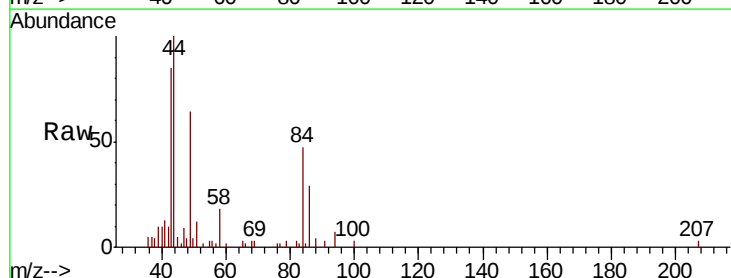
RT: 2.24 min Scan# 164

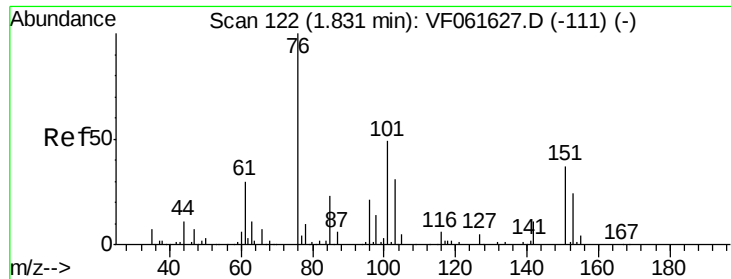
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	43	Resp:	12018
Ion Ratio	Lower	Upper	
43	100		
58	21.0	22.9	34.3#





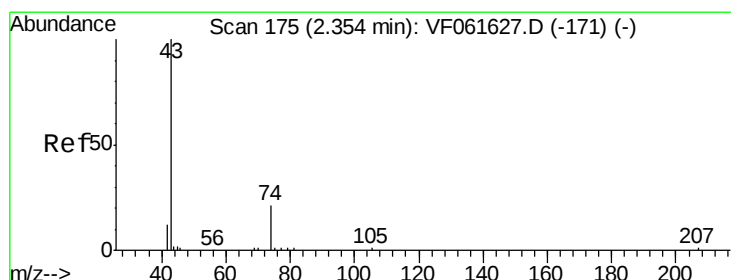
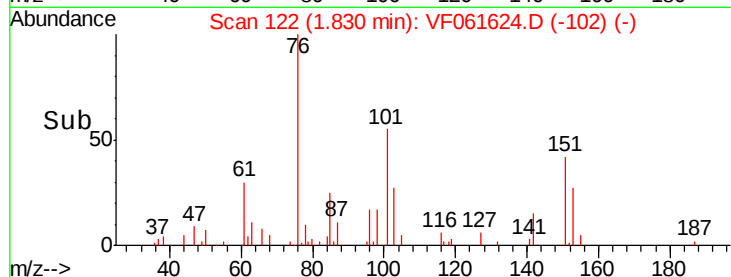
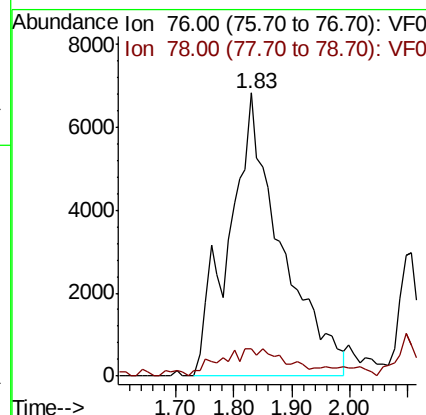
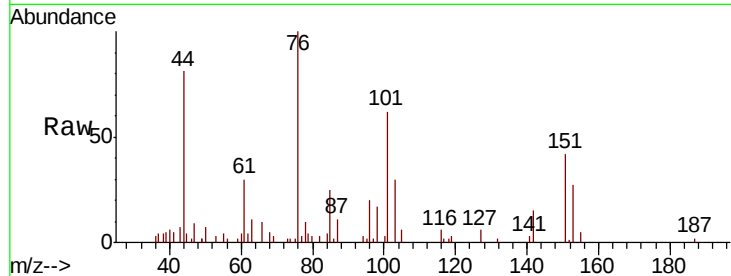
#17
Carbon Disulfide
Concen: 4.777 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.9	11.9

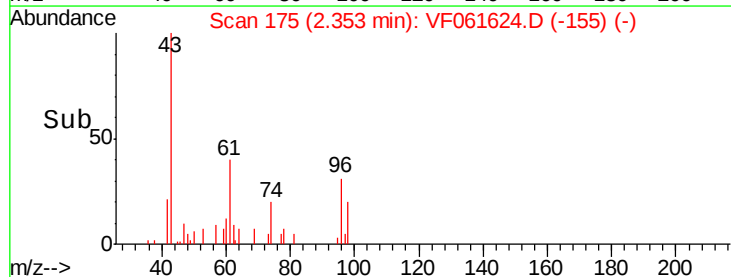
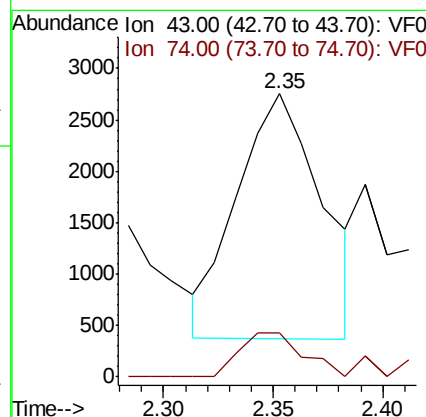
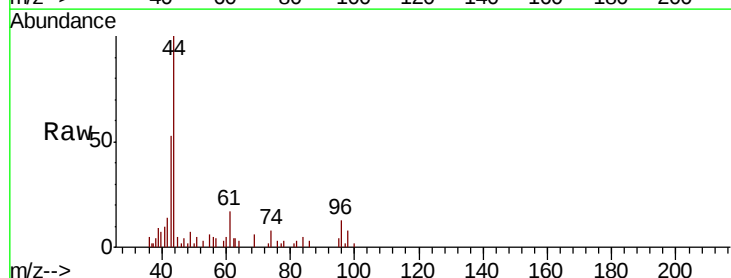
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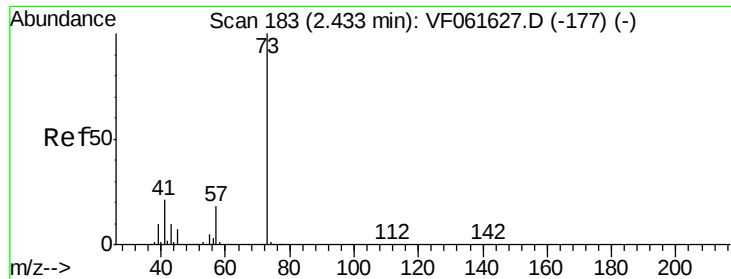
MMDadoda
2/14/2019 12:41:41 PM



#18
Methyl Acetate
Concen: 5.016 ug/l m
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.6	14.6	21.8





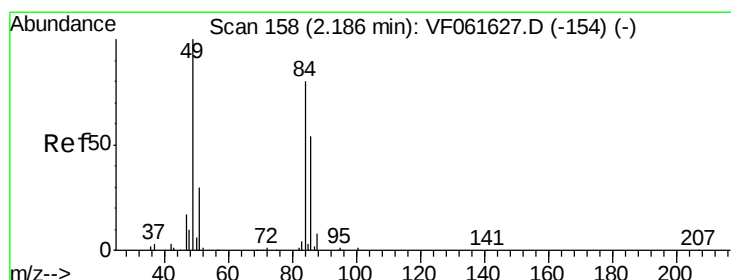
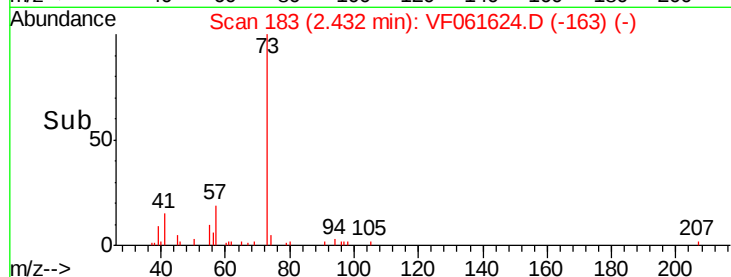
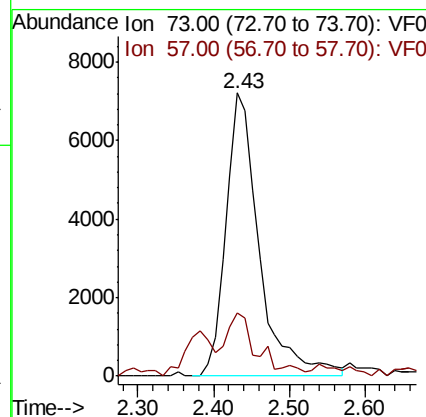
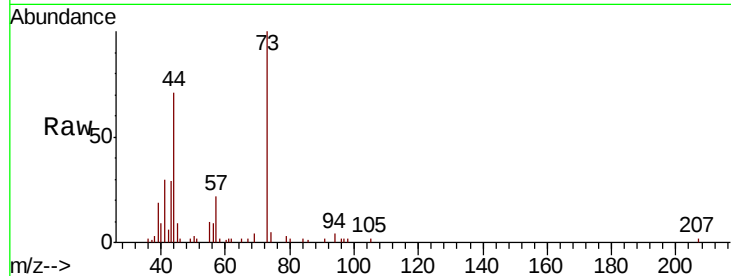
#19
Methyl tert-butyl Ether
Concen: 3.704 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.4	15.8	23.8

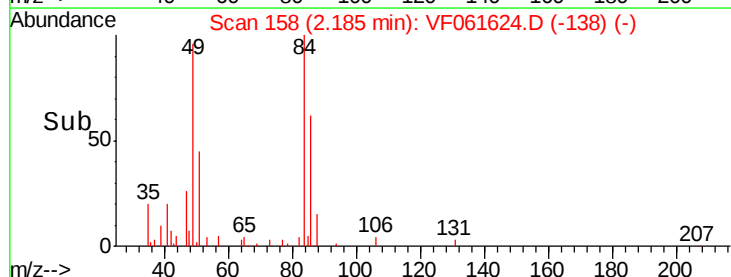
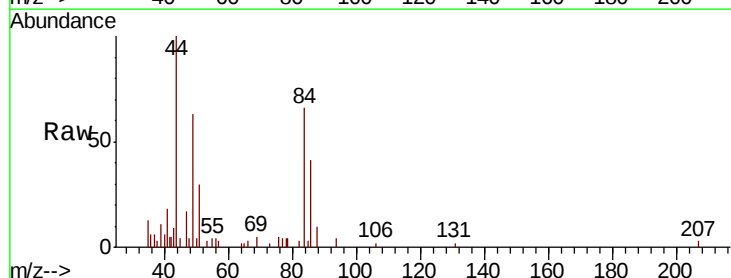
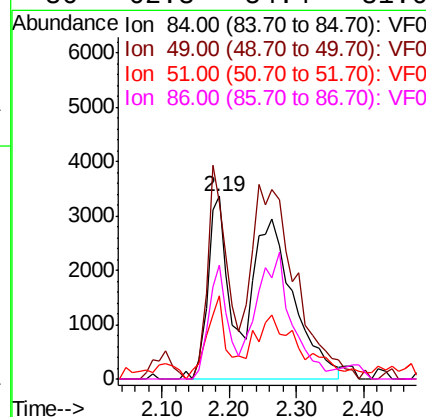
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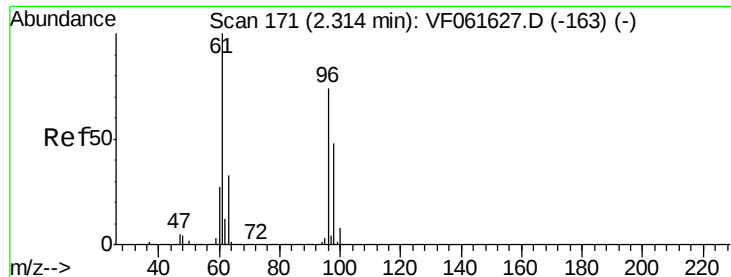
MMDadoda
2/14/2019 12:41:41 PM



#20
Methylene Chloride
Concen: 5.567 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	96.4	101.8	152.8#
51	45.3	31.1	46.7
86	62.3	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 5.175 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

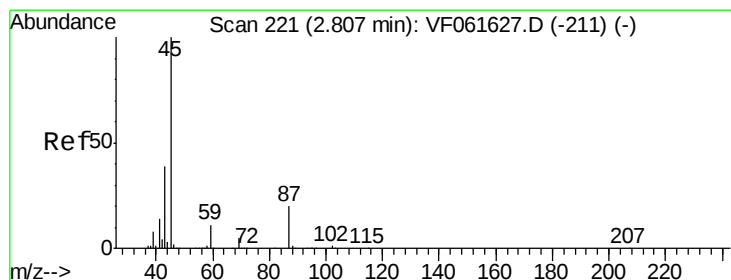
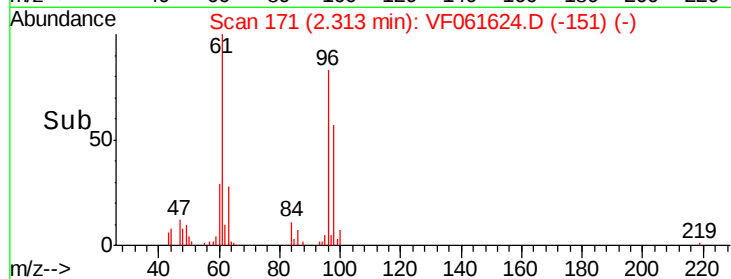
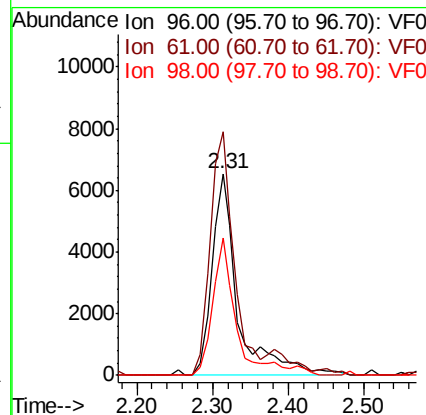
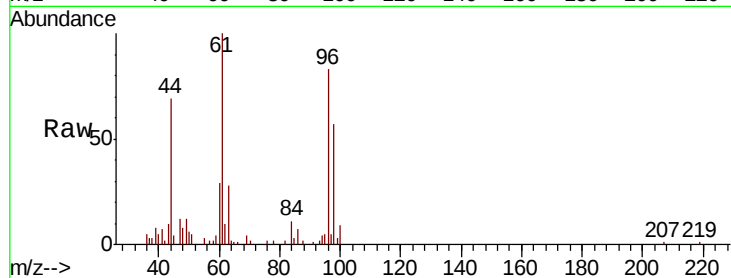
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	15604
Ion	Ratio	Lower	Upper
96	100		
61	120.5	108.2	162.4
98	68.2	52.2	78.2

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#22

Diisopropyl ether

Concen: 4.090 ug/l

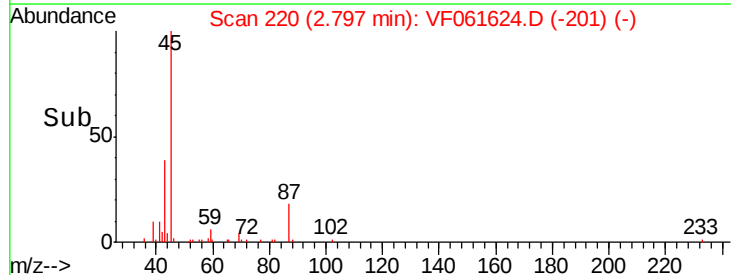
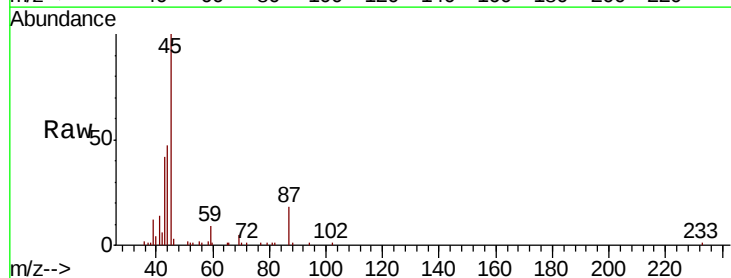
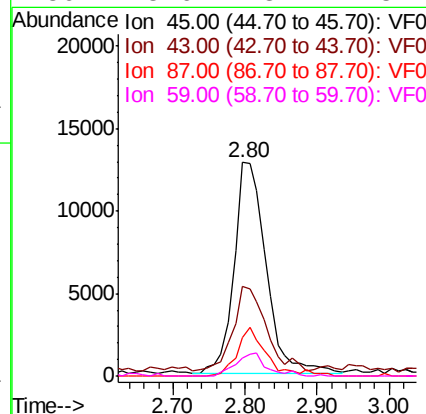
RT: 2.80 min Scan# 220

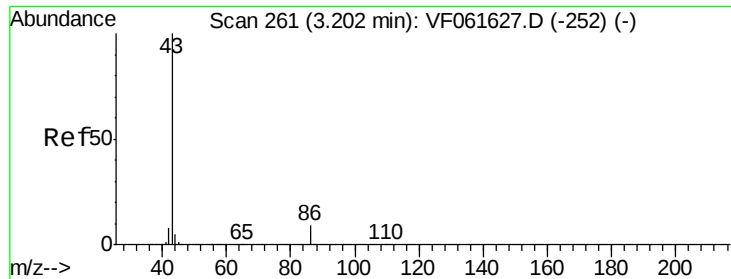
Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	45	Resp:	39731
Ion	Ratio	Lower	Upper
45	100		
43	42.2	31.4	47.2
87	18.1	16.3	24.5
59	8.6	8.7	13.1#





#23

Vinyl Acetate

Concen: 18.706 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 89058

Ion Ratio Lower Upper

43 100

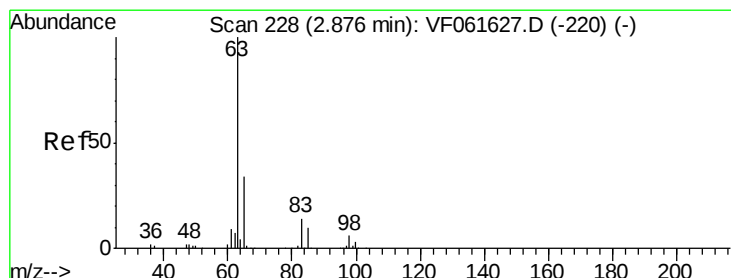
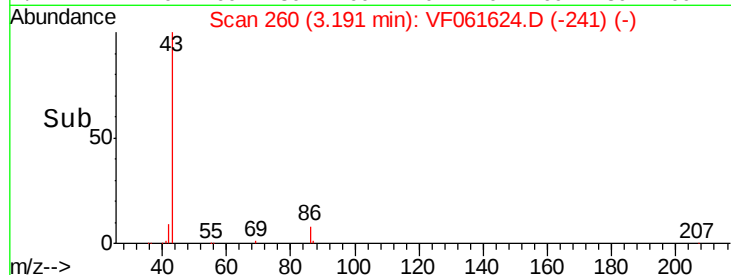
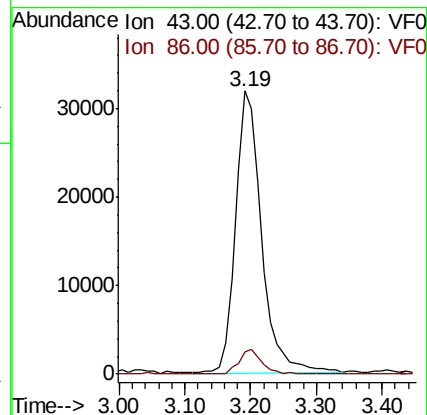
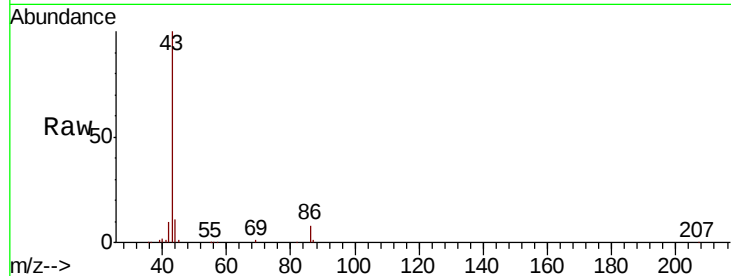
86 7.9 7.5 11.3

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 4.154 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

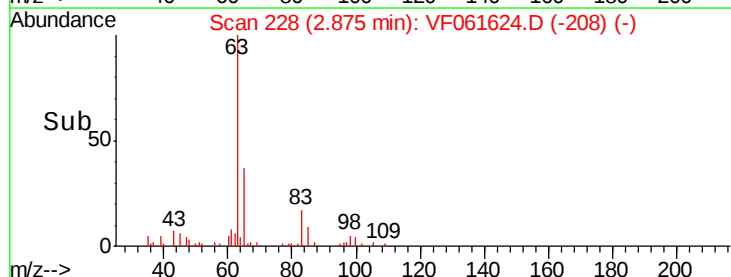
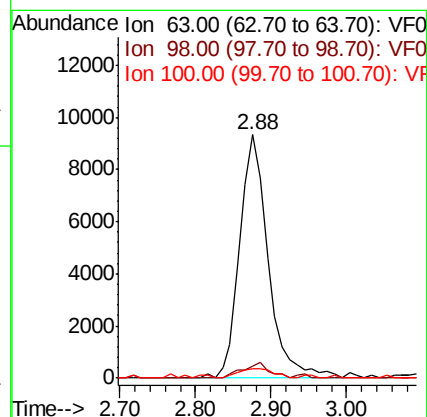
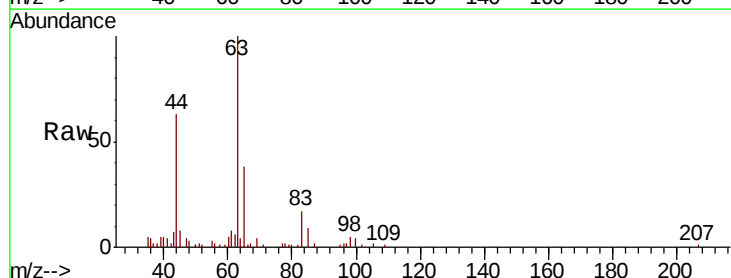
Tgt Ion: 63 Resp: 24376

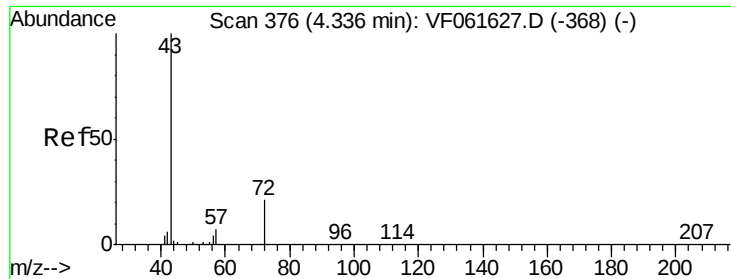
Ion Ratio Lower Upper

63 100

98 4.9 2.8 8.3

100 4.0 1.8 5.4





#25

2-Butanone

Concen: 23.586 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 28355

Ion Ratio Lower Upper

43 100

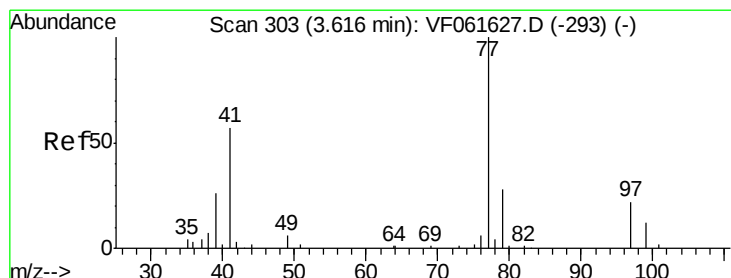
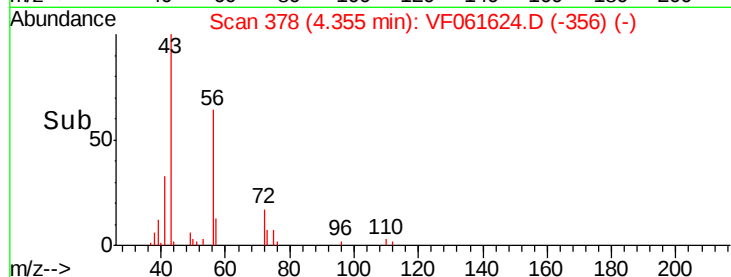
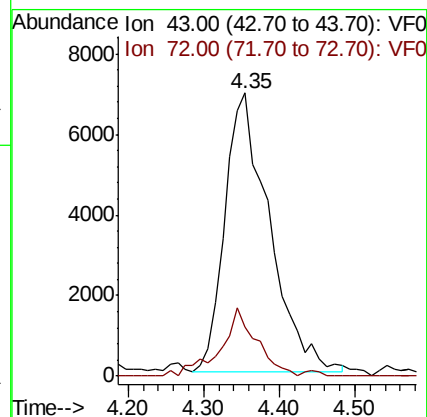
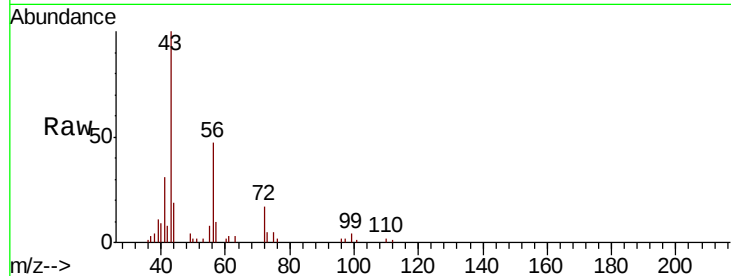
72 17.2 17.1 25.7

Manual Integrations

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2/14/2019 12:41:41 PM



#26

2,2-Dichloropropane

Concen: 3.652 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF061624.D

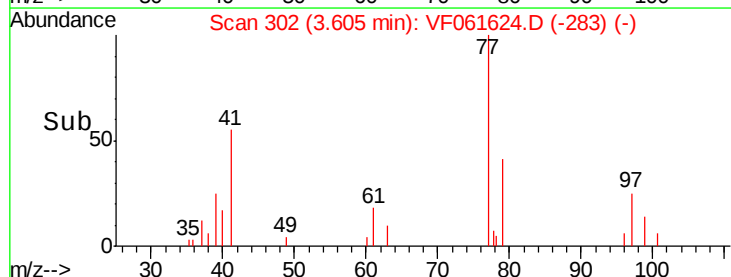
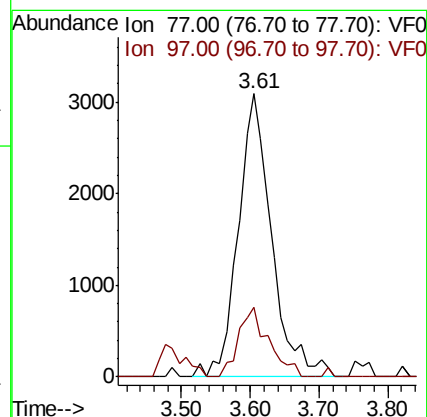
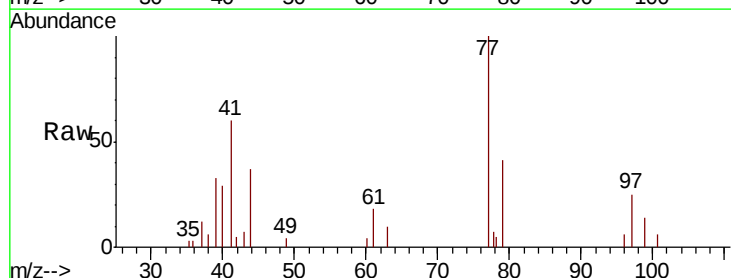
Acq: 13 Feb 2019 16:08

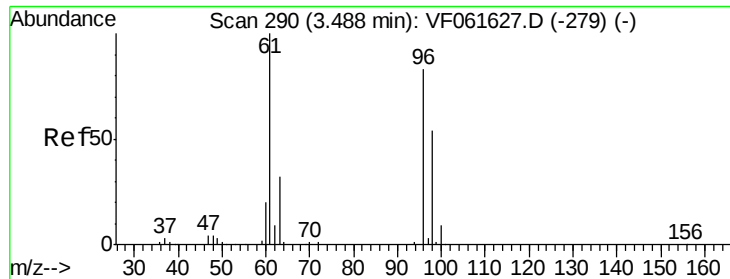
Tgt Ion: 77 Resp: 10442

Ion Ratio Lower Upper

77 100

97 24.8 11.7 35.0





#27

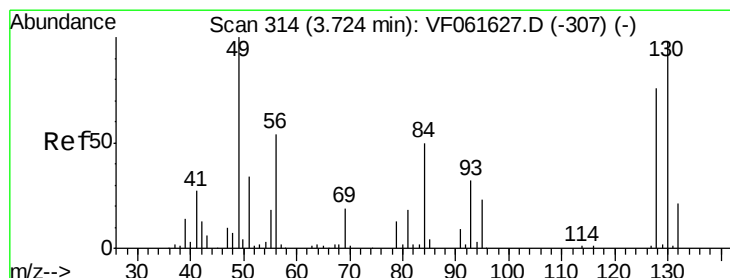
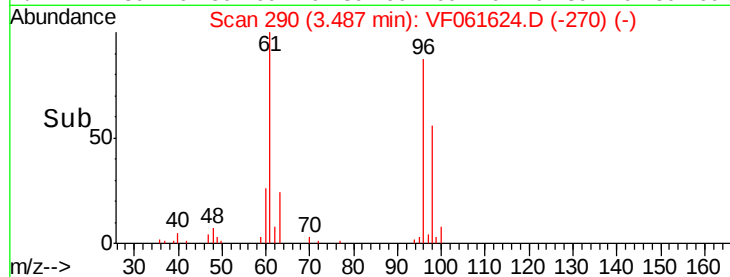
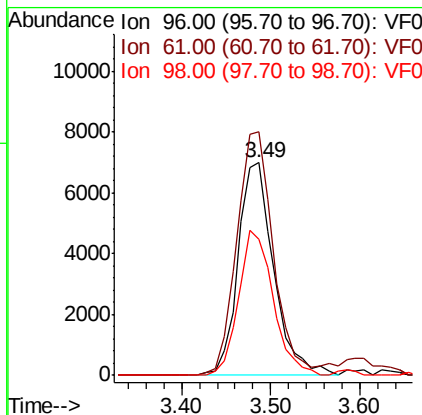
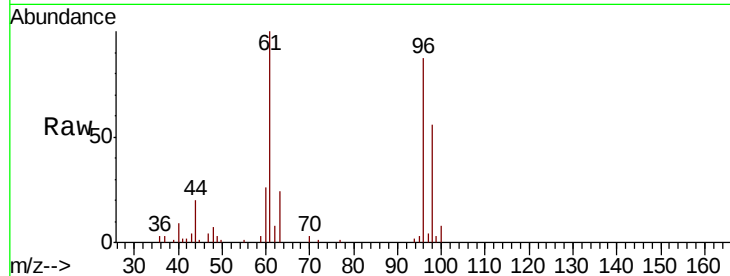
cis-1,2-Dichloroethene
 Concen: 4.538 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	96	Resp	19443
Ion Ratio	Lower	Upper	
96	100		
61	114.4	0.0	241.6
98	64.1	0.0	130.2

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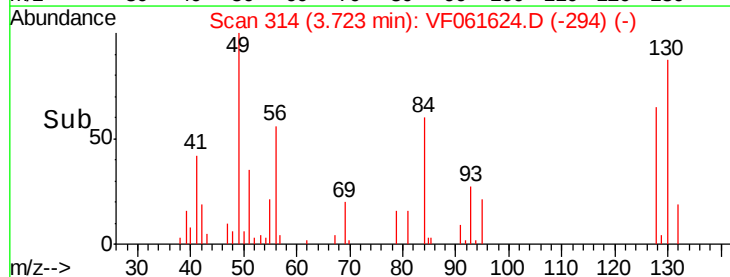
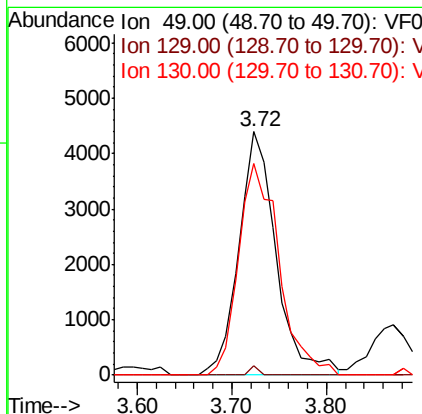
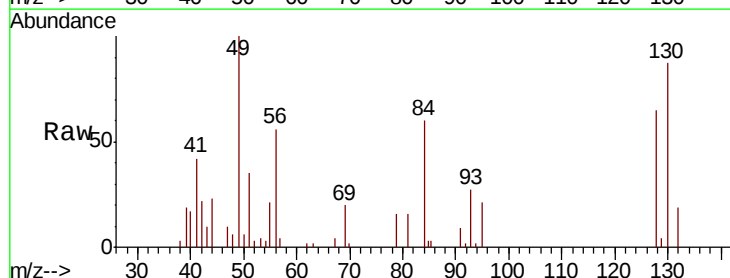
MMDadoda
 2/14/2019 12:41:41 PM

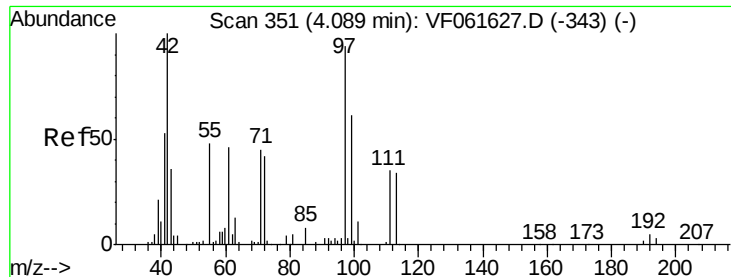


#28

Bromochloromethane
 Concen: 4.130 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	49	Resp	12047
Ion Ratio	Lower	Upper	
49	100		
129	3.8	0.0	3.4#
130	86.9	77.7	116.5





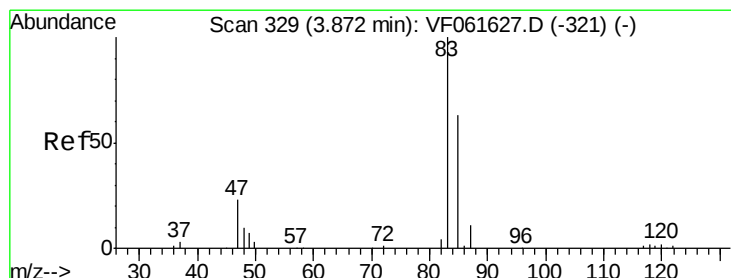
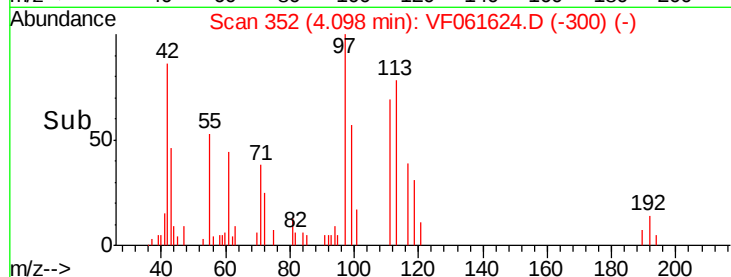
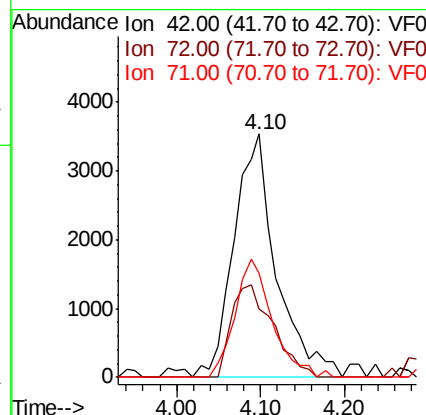
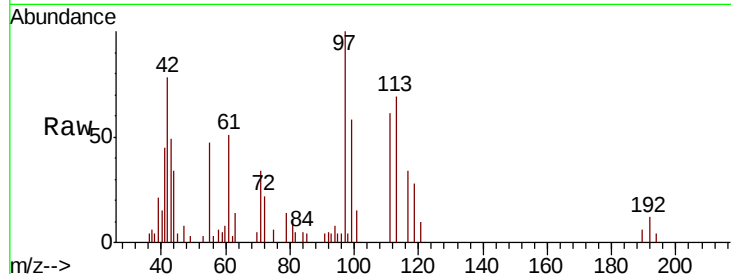
#29
Tetrahydrofuran
Concen: 22.061 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	35.2	52.8
71	43.0	32.9	49.3

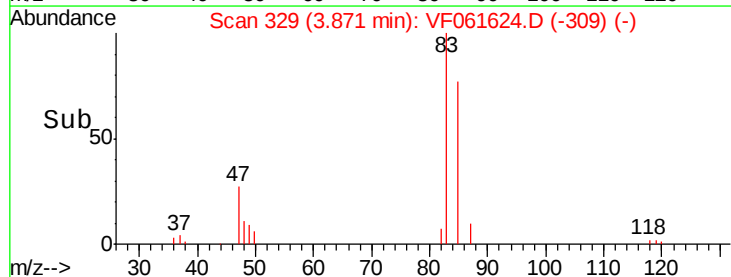
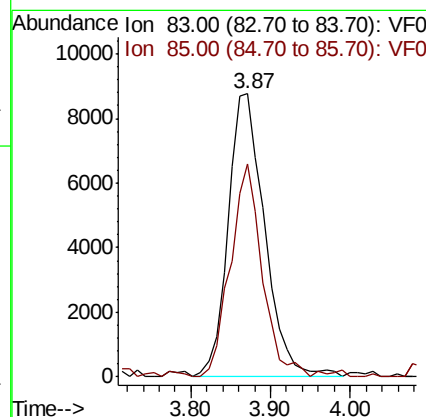
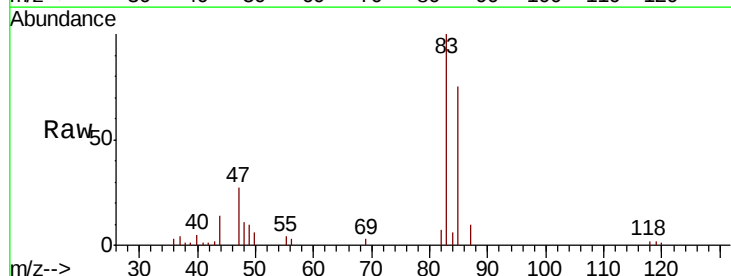
Manual Integrations
APPROVED

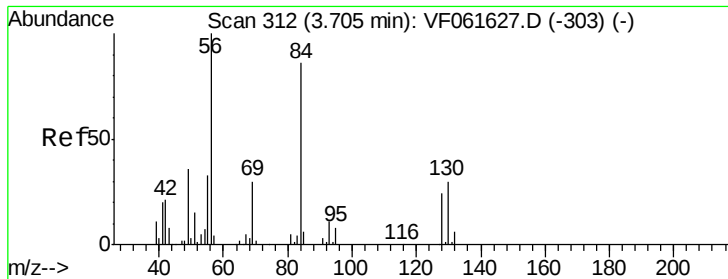
MMDadoda
2/14/2019 12:41:41 PM



#30
Chloroform
Concen: 3.542 ug/l
RT: 3.87 min Scan# 329
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	75.2	51.1	76.7





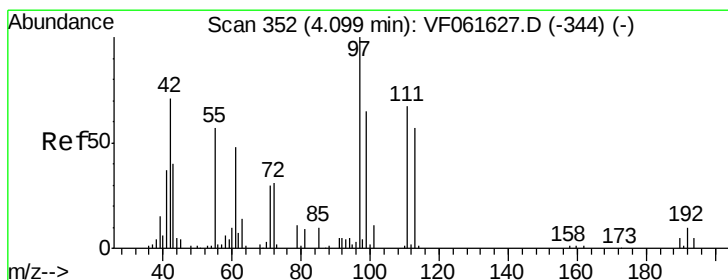
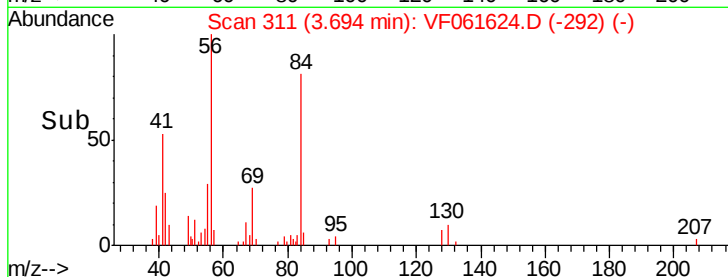
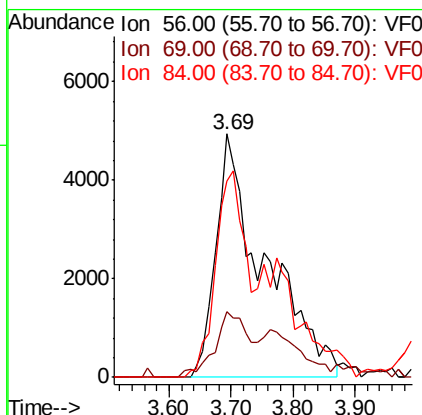
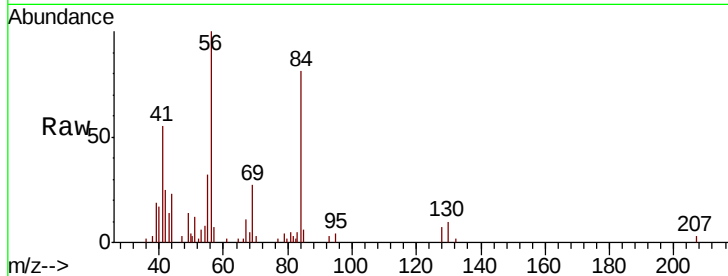
#31
Cyclohexane
Concen: 4.658 ug/l m
RT: 3.69 min Scan# 311
Delta R.T. -0.01 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.2	23.8	35.8
84	80.7	68.6	103.0

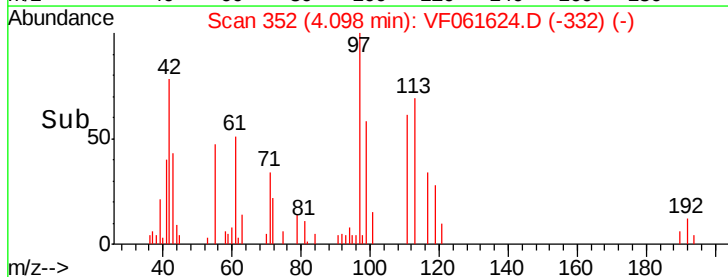
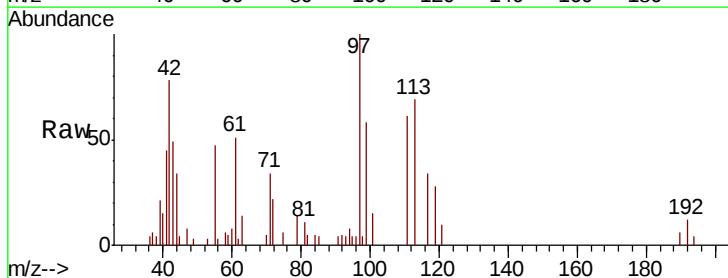
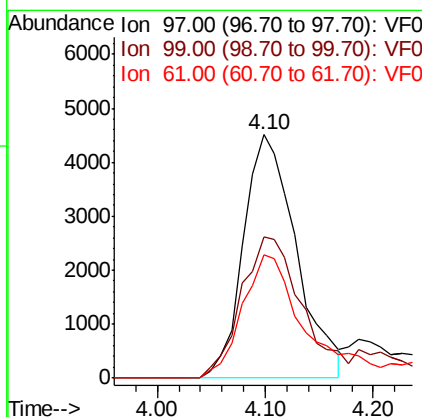
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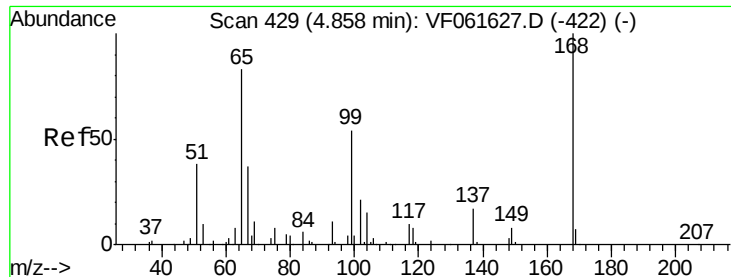
MMDadoda
2/14/2019 12:41:41 PM



#32
1,1,1-Trichloroethane
Concen: 2.877 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	57.7	52.2	78.2
61	50.5	39.2	58.8





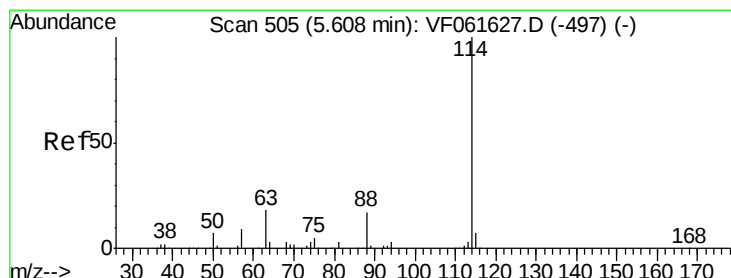
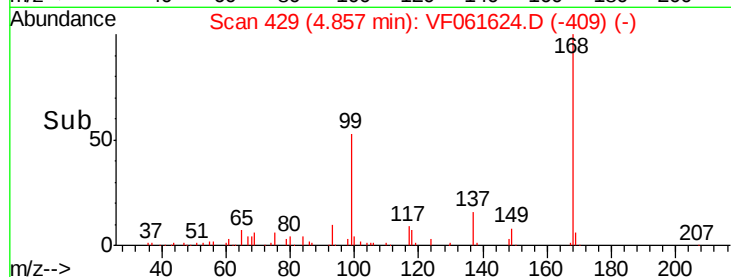
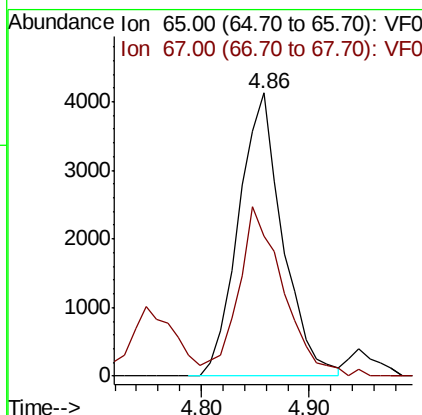
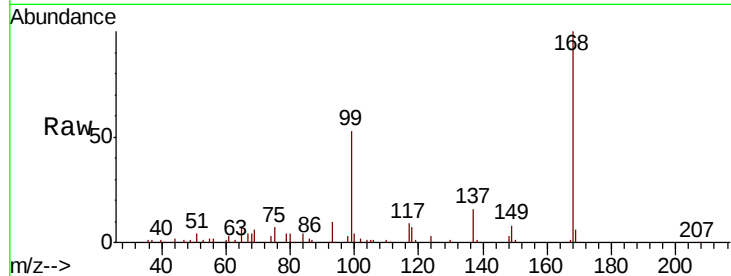
#33
 1,2-Dichloroethane-d4
 Concen: 2.987 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 11727
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 104.0

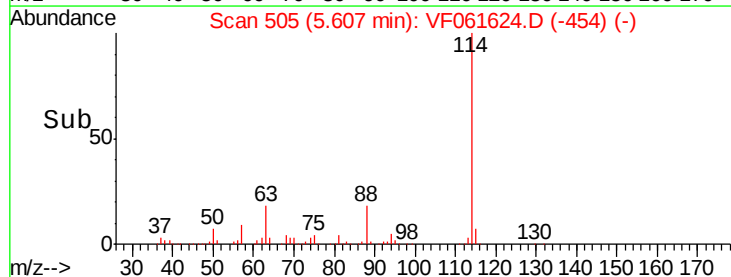
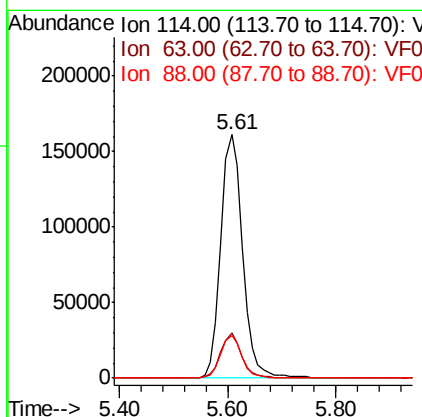
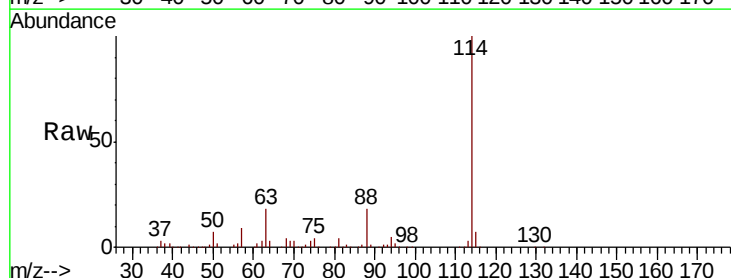
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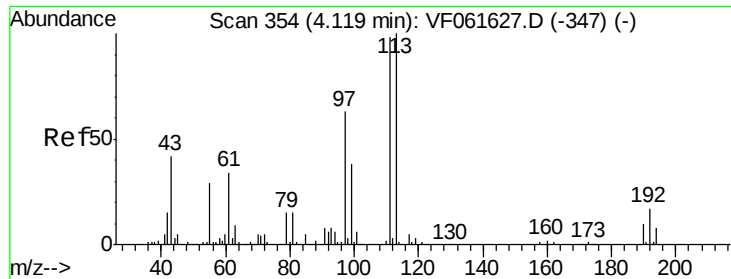
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion: 114 Resp: 453059
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.6
 88 17.7 0.0 34.4





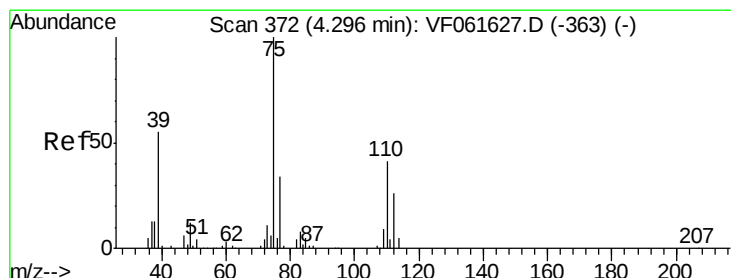
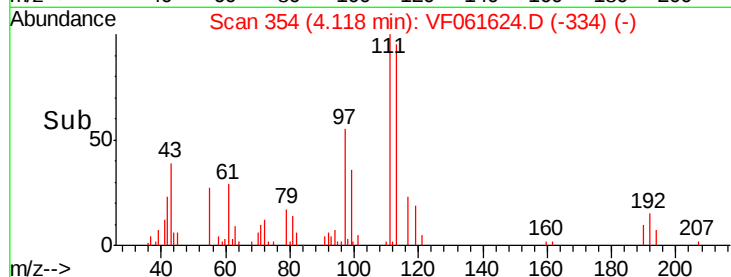
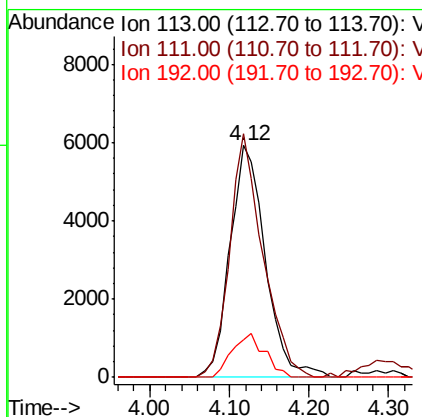
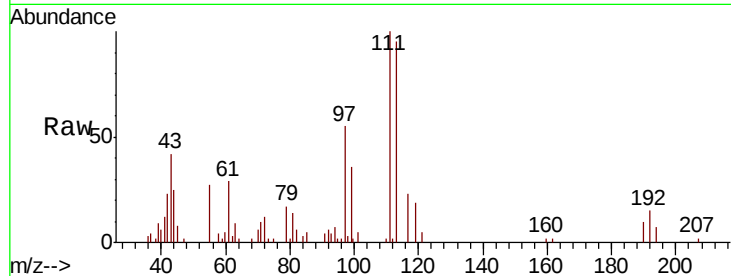
#35
 Dibromofluoromethane
 Concen: 5.147 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.0	78.8	118.2
192	16.2	13.4	20.0

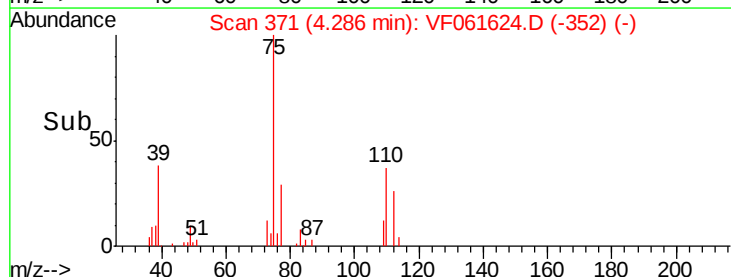
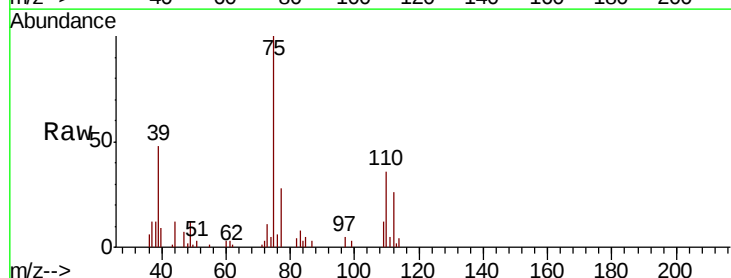
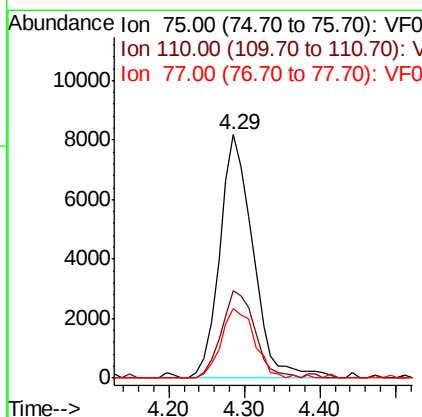
Manual Integrations
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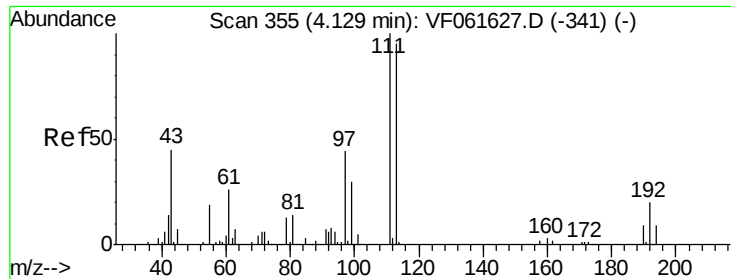
MMDadoda
 2/14/2019 12:41:41 PM



#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.7	20.5	61.6
77	28.4	27.0	40.4





#37

Ethyl Acetate

Concen: 5.386 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

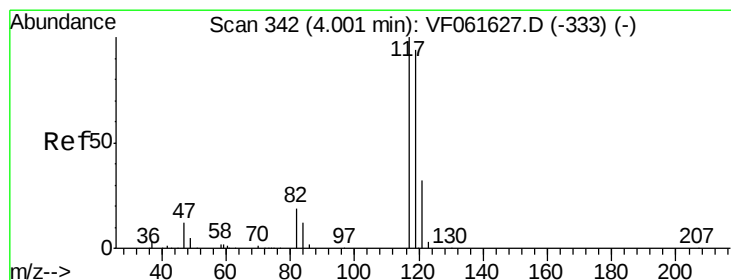
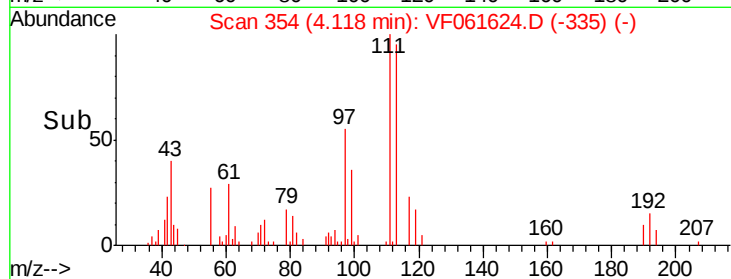
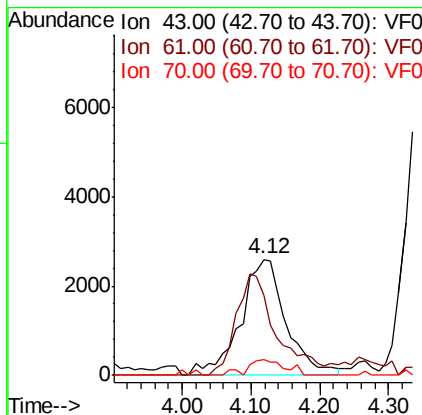
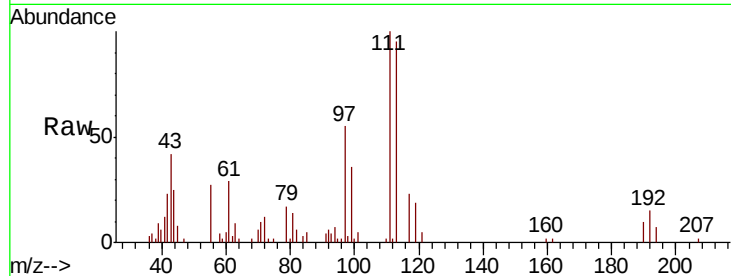
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	11981
Ion	Ratio	Lower	Upper
43	100		
61	68.6	45.7	68.5#
70	13.6	8.5	12.7#

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



#38

Carbon Tetrachloride

Concen: 3.784 ug/l

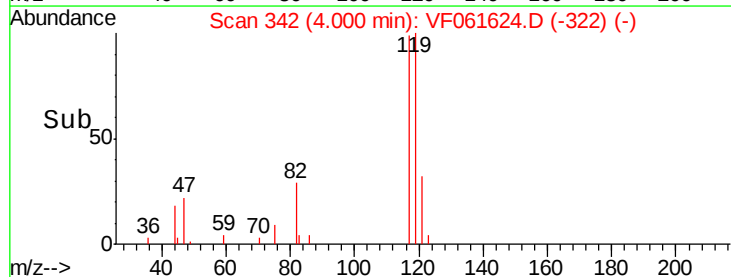
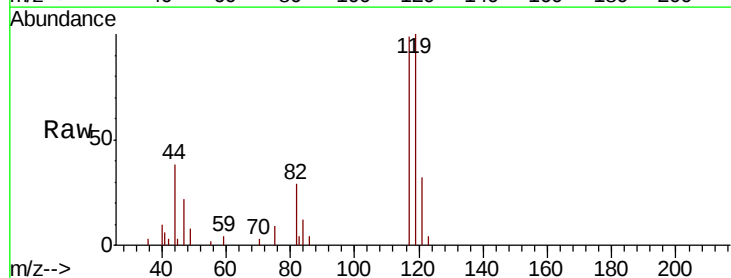
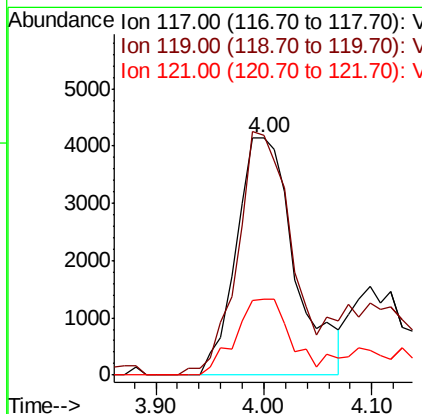
RT: 4.00 min Scan# 342

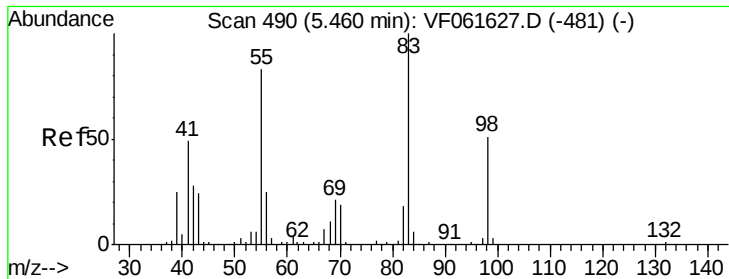
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	117	Resp:	15658
Ion	Ratio	Lower	Upper
117	100		
119	100.9	75.6	113.4
121	32.0	25.2	37.8





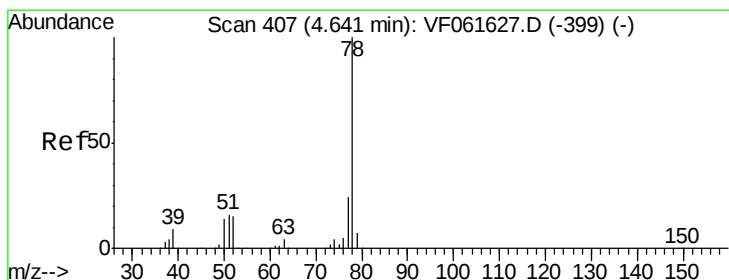
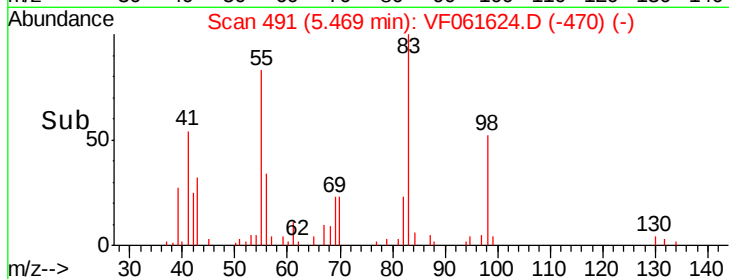
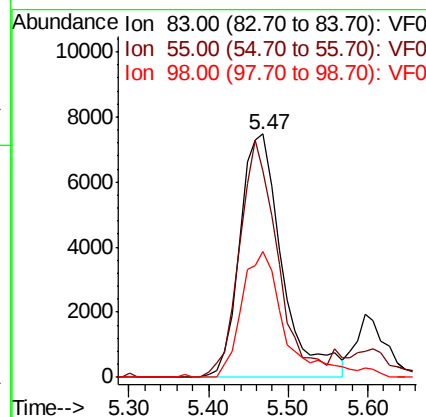
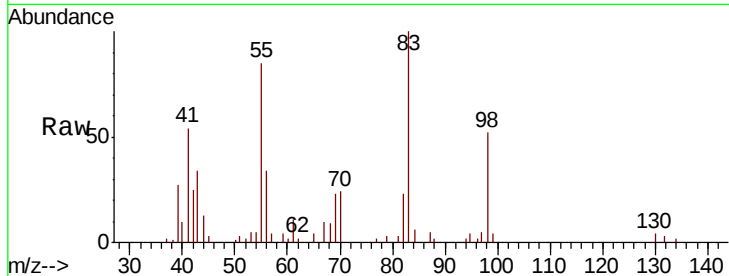
#39
Methvlcvclohexane
Concen: 5.354 ug/l
RT: 5.47 min Scan# 491
Delta R.T. 0.01 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.7	66.6	99.8
98	51.8	40.4	60.6

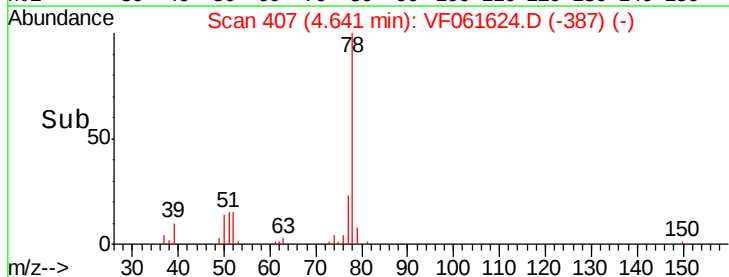
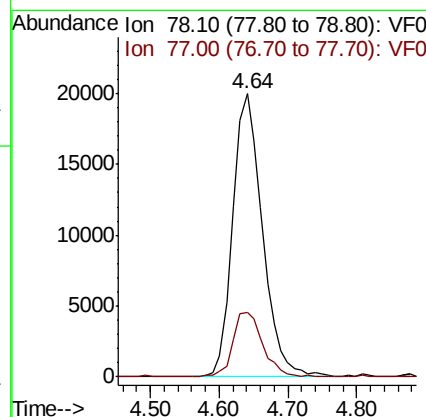
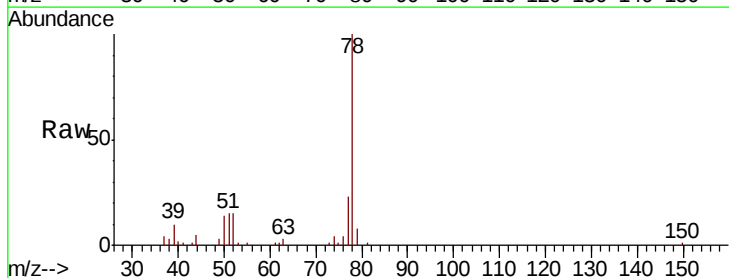
Manual Integrations
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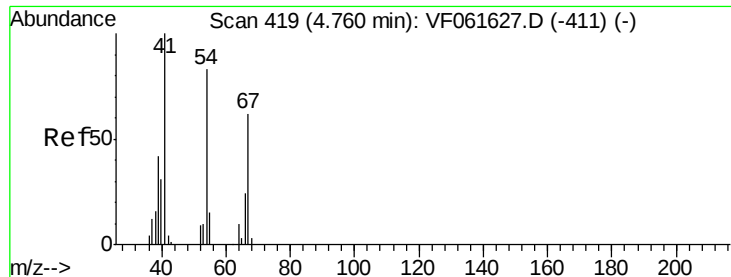
MMDadoda
2/14/2019 12:41:41 PM



#40
Benzene
Concen: 5.279 ug/l
RT: 4.64 min Scan# 407
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.6





#41

Methacrylonitrile

Concen: 4.743 ug/l

RT: 4.76 min Scan# 419

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 41 Resp: 5288

Ion Ratio Lower Upper

41 100

39 75.0 45.3 67.9#

67 52.6 49.3 73.9

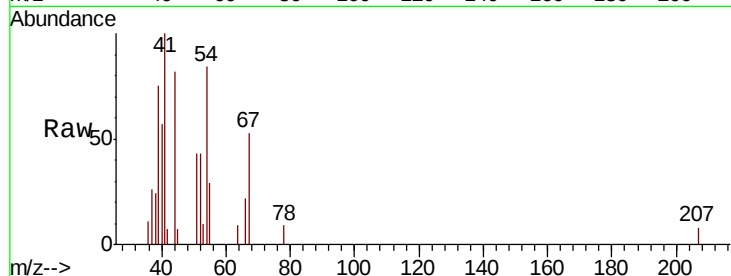
52 42.6 32.6 49.0

Manual Integrations

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MMDadoda

2/14/2019 12:41:41 PM

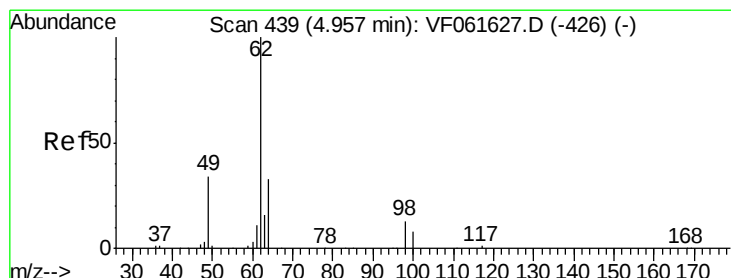
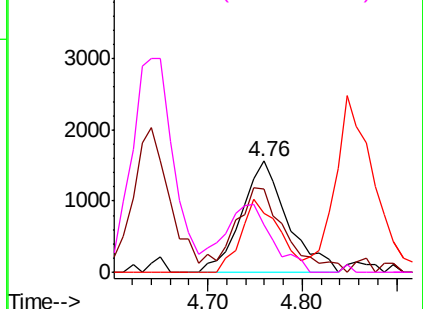
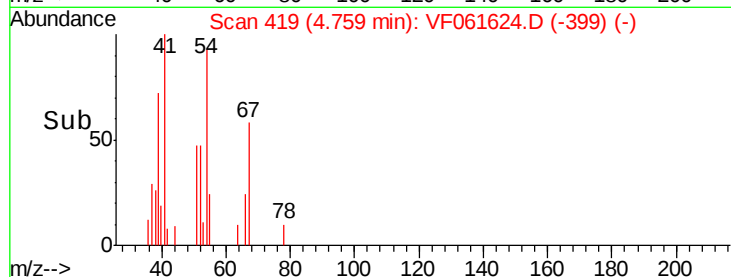


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 3.587 ug/l

RT: 4.95 min Scan# 438

Delta R.T. -0.01 min

Lab File: VF061624.D

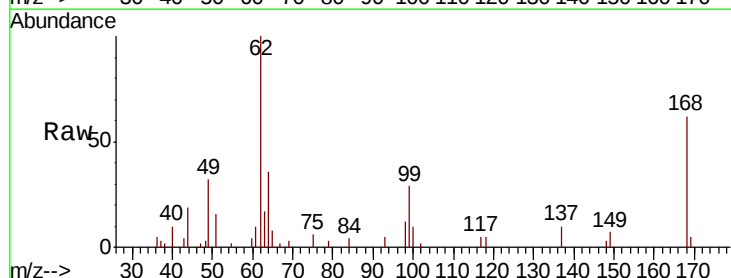
Acq: 13 Feb 2019 16:08

Tgt Ion: 62 Resp: 14071

Ion Ratio Lower Upper

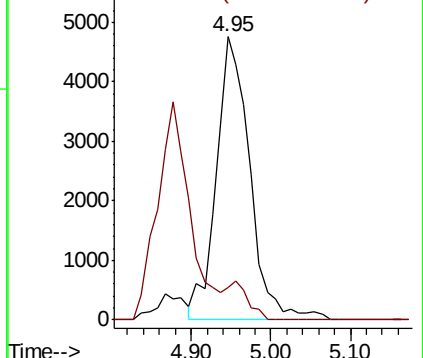
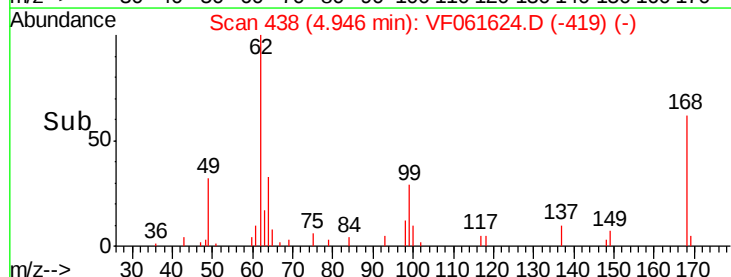
62 100

98 11.7 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

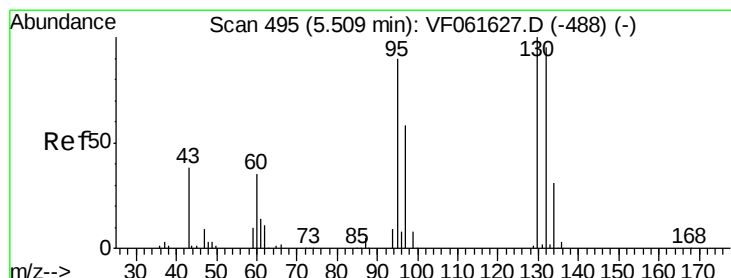
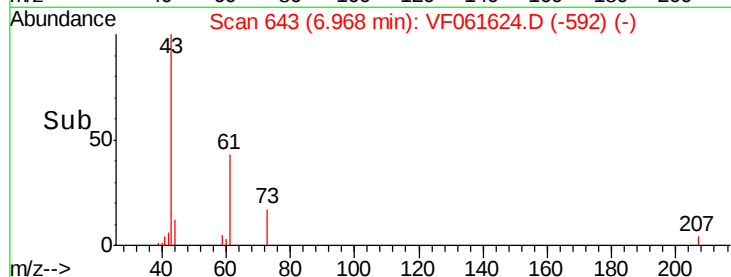
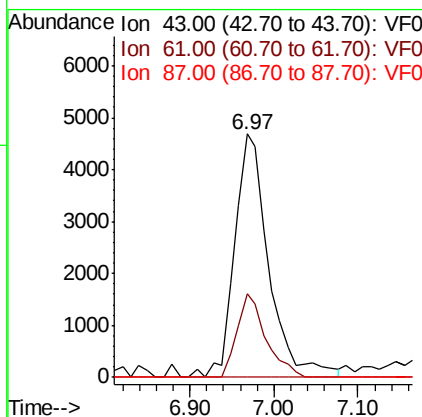
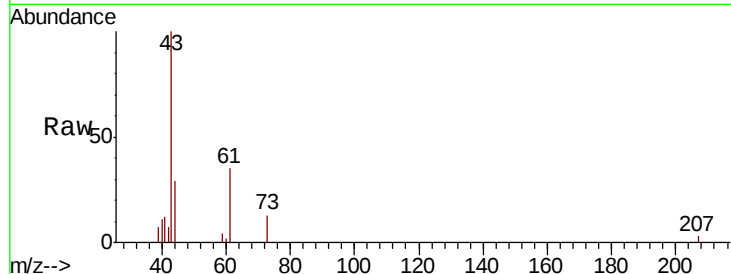
Isopropyl Acetate
 Concen: 5.237 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.5	25.8	38.6
87	0.0	0.4	0.6

Manual Integrations
 APPROVED

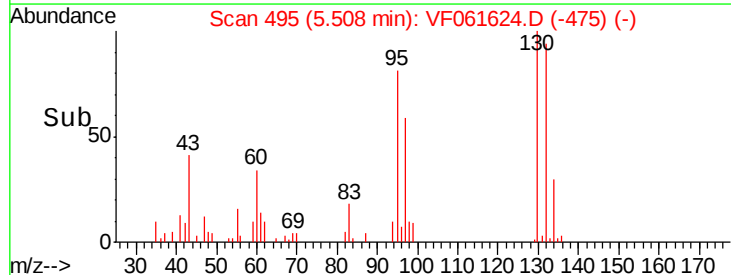
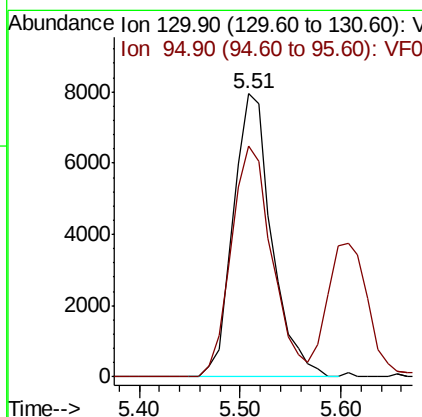
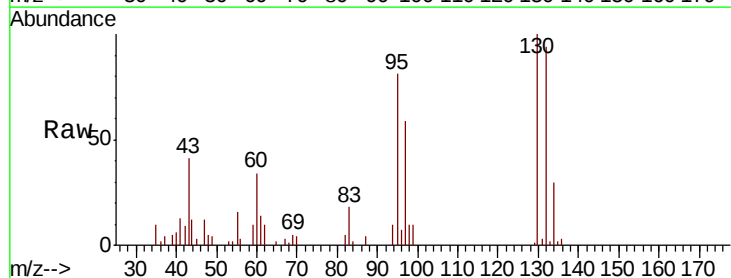
MMDadoda
 2/14/2019 12:41:41 PM

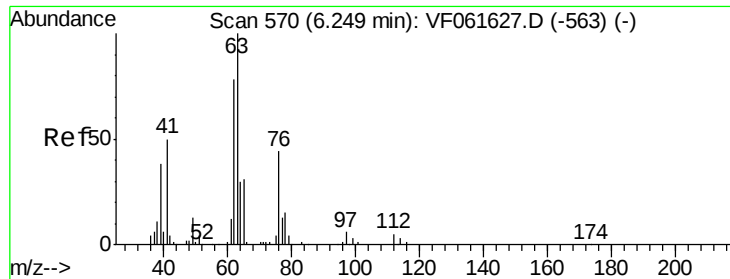


#44

Trichloroethene
 Concen: 6.088 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	81.4	0.0	179.4





#45

1,2-Dichloropropane

Concen: 4.484 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 13115

Ion Ratio Lower Upper

63 100

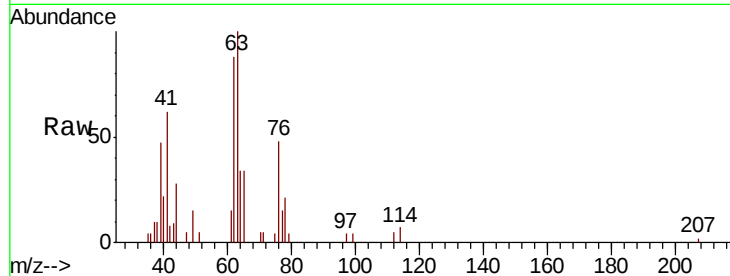
65 33.9 24.9 37.3

Manual Integrations

APPROVED

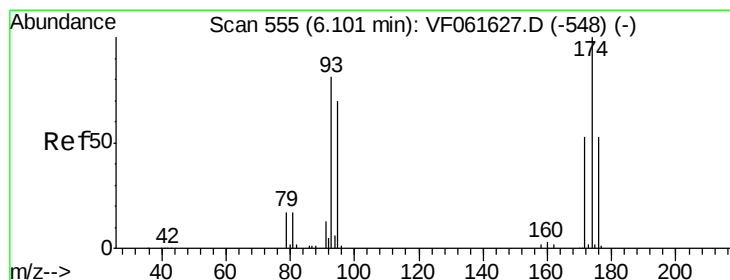
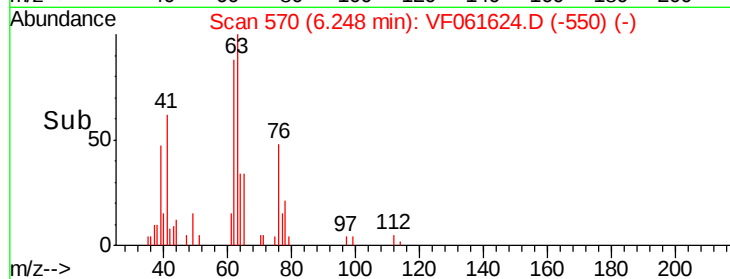
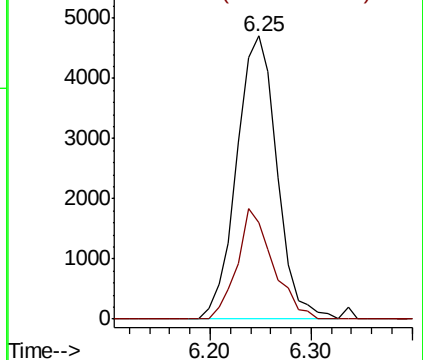
MMDadoda

2/14/2019 12:41:41 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 4.170 ug/l

RT: 6.10 min Scan# 555

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

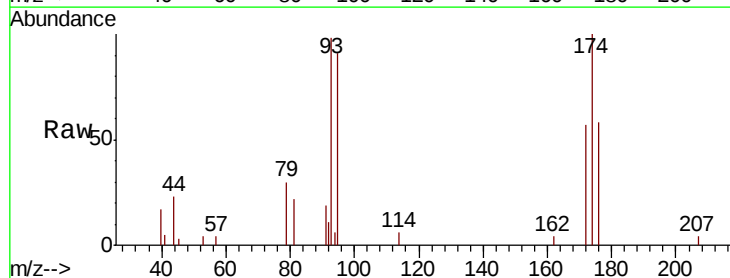
Tgt Ion: 93 Resp: 7968

Ion Ratio Lower Upper

93 100

95 92.7 69.0 103.6

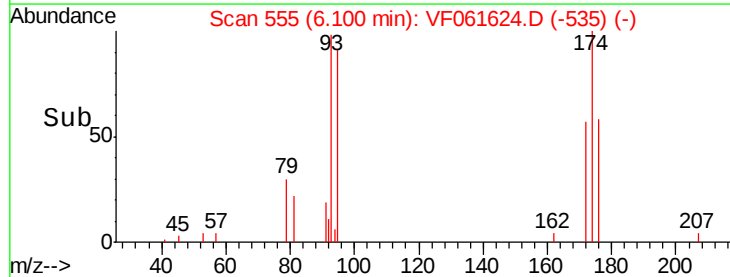
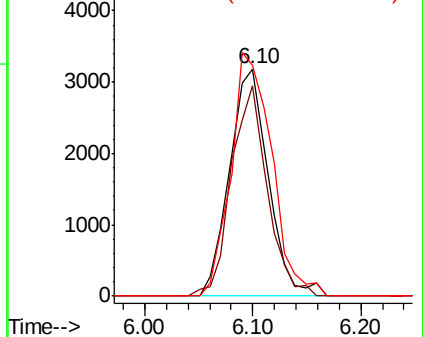
174 101.8 99.3 148.9

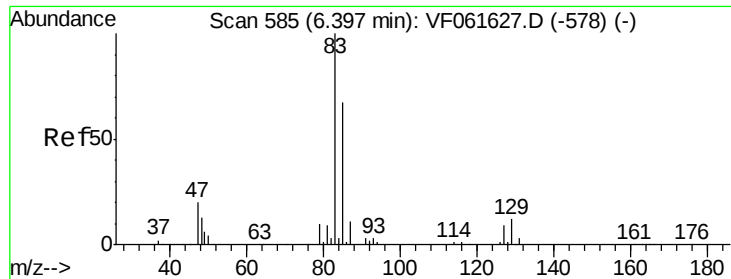


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 4.081 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

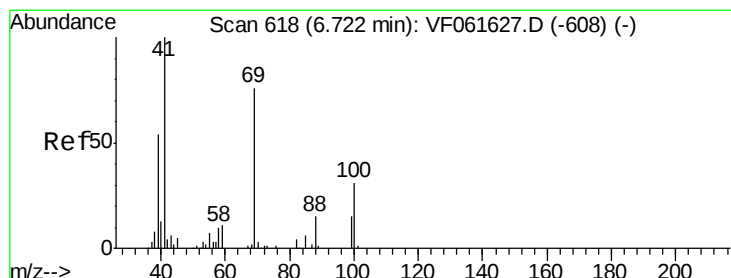
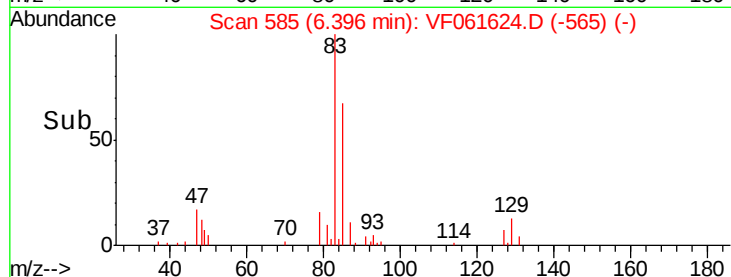
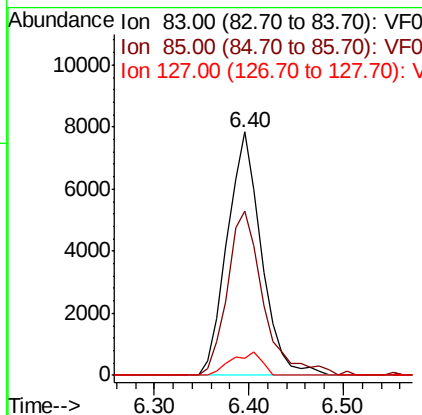
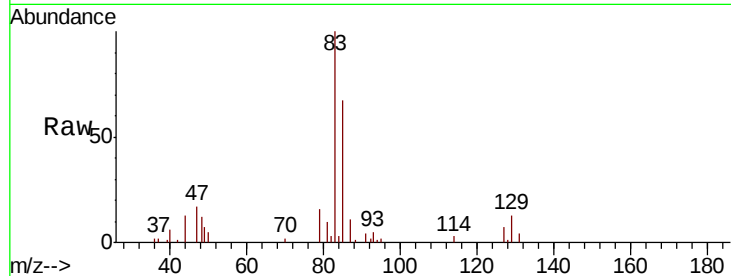
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	19671
Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.4	80.2
127	7.3	7.5	11.3#

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



#48

Methyl methacrylate

Concen: 4.524 ug/l

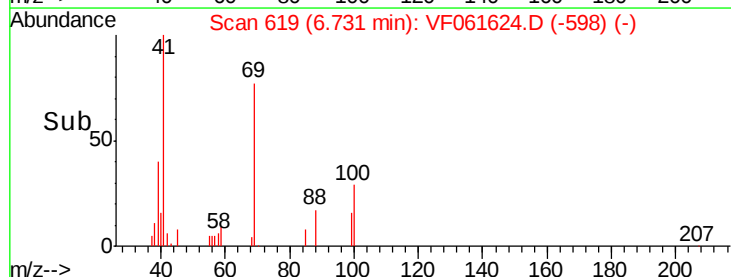
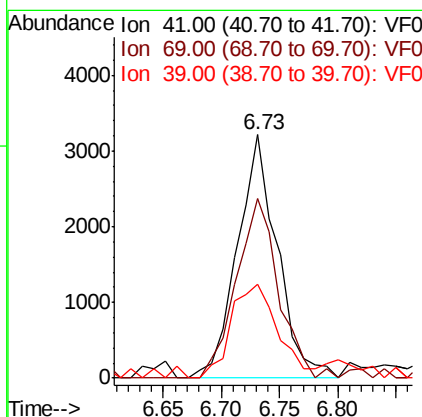
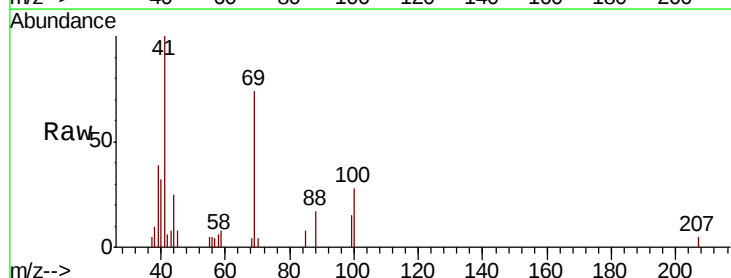
RT: 6.73 min Scan# 619

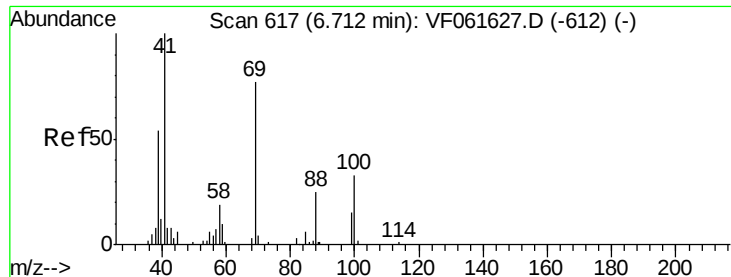
Delta R.T. 0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	41	Resp:	7632
Ion	Ratio	Lower	Upper
41	100		
69	73.6	60.4	90.6
39	38.5	43.7	65.5#





#49

1,4-Dioxane

Concen: 111.544 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

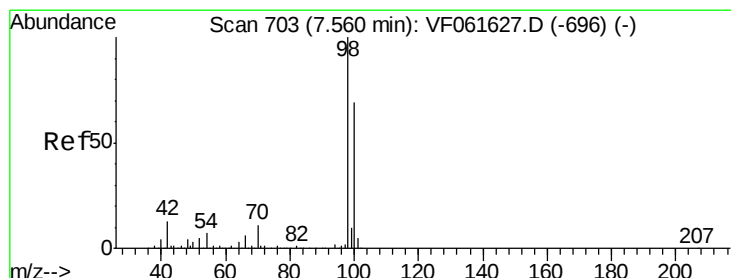
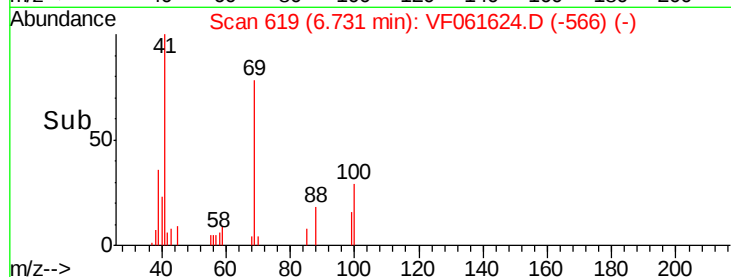
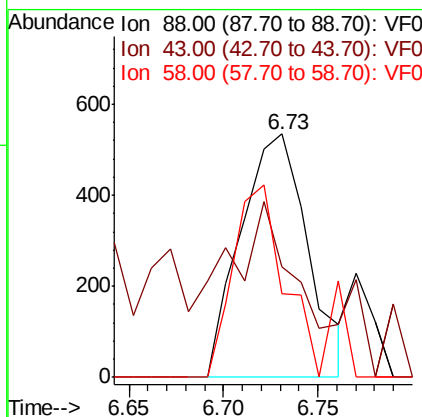
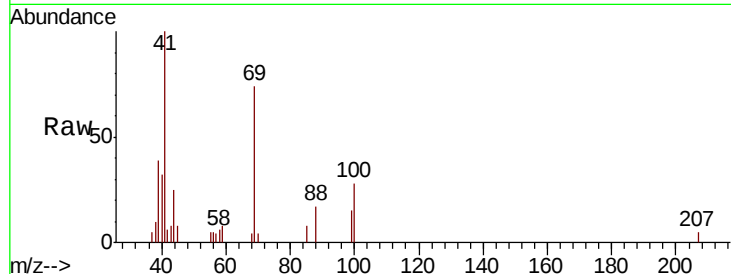
ClientSampleId :

VSTDIC005

Tot Ion:	88	Resp:	1321
Ion Ratio	Lower	Upper	
88	100		
43	45.6	32.3	48.5
58	34.6	59.4	89.2#

Manual Integrations
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#50

Toluene-d8

Concen: 5.341 ug/l

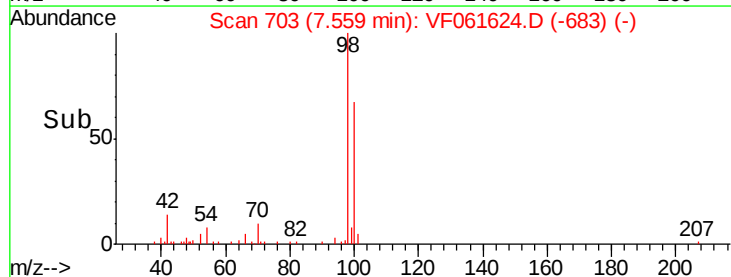
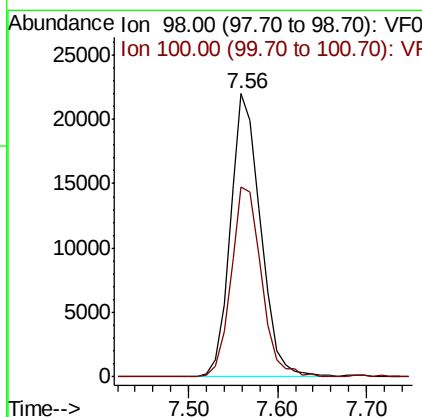
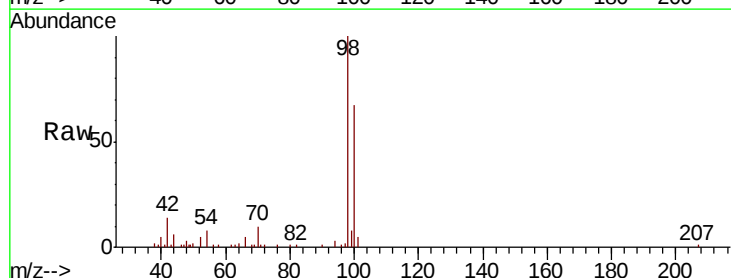
RT: 7.56 min Scan# 703

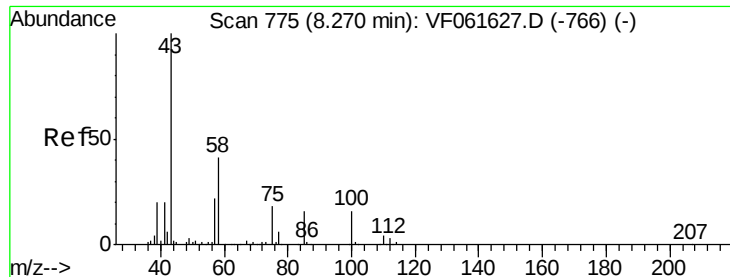
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	98	Resp:	52032
Ion Ratio	Lower	Upper	
98	100		
100	67.1	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 24.077 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 45733

Ion Ratio Lower Upper

43 100

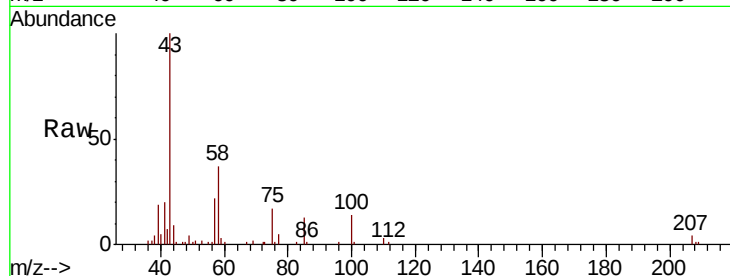
58 37.4 33.1 49.7

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

20000

15000

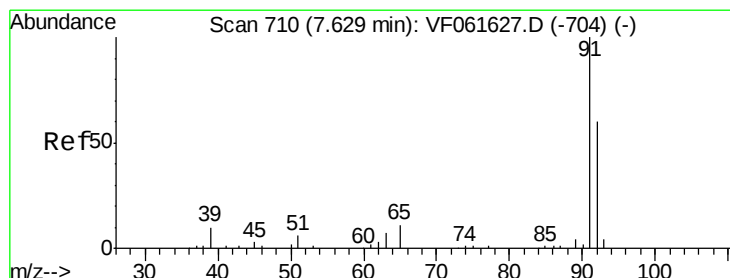
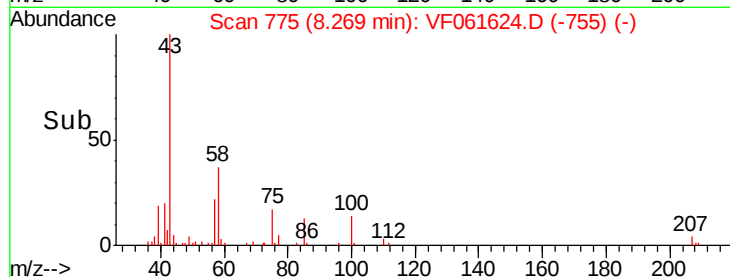
10000

5000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 5.348 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061624.D

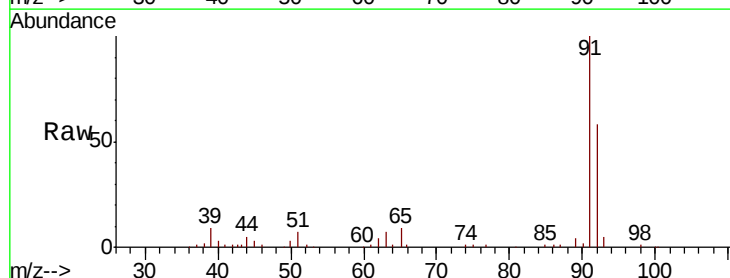
Acq: 13 Feb 2019 16:08

Tgt Ion: 92 Resp: 37862

Ion Ratio Lower Upper

92 100

91 171.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

30000

25000

20000

15000

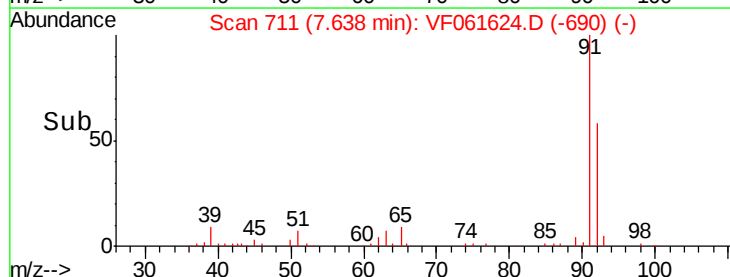
10000

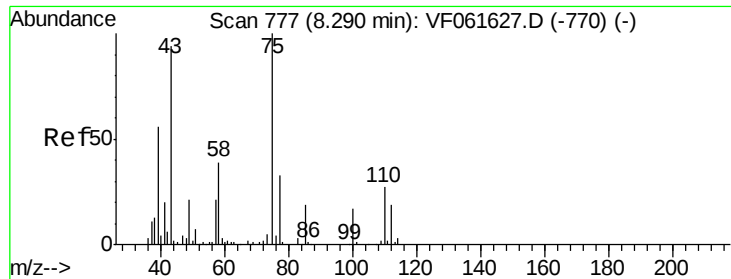
5000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 4.017 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 14984

Ion Ratio Lower Upper

75 100

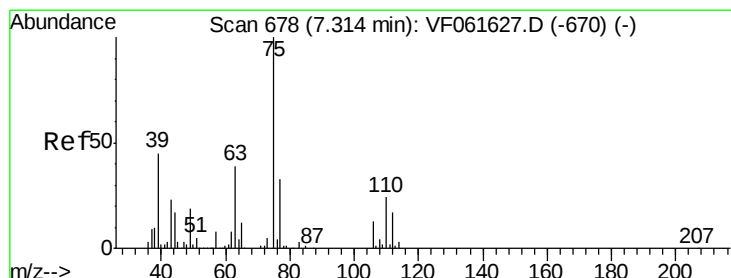
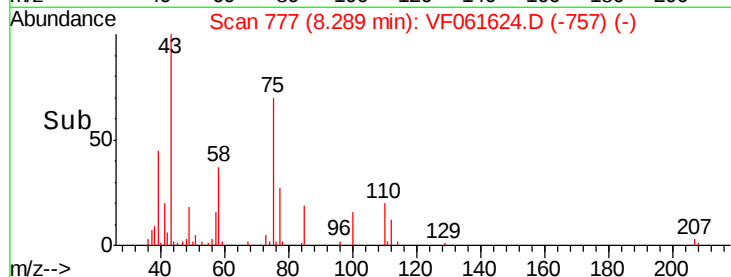
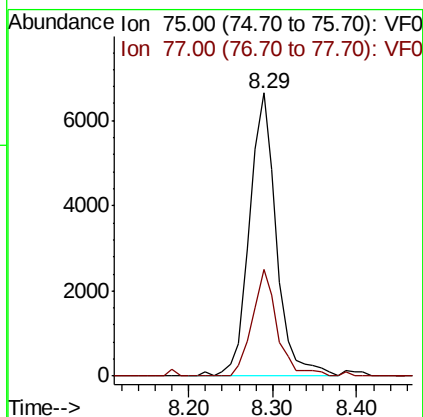
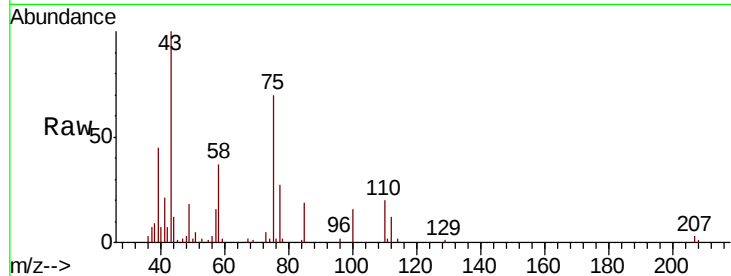
77 37.8 26.2 39.2

Manual Integrations

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2/14/2019 12:41:41 PM



#54

cis-1,3-Dichloropropene

Concen: 4.528 ug/l

RT: 7.31 min Scan# 678

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

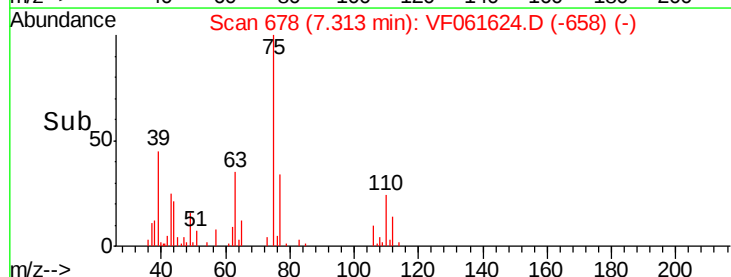
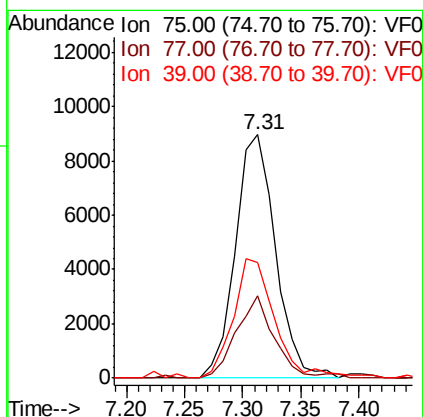
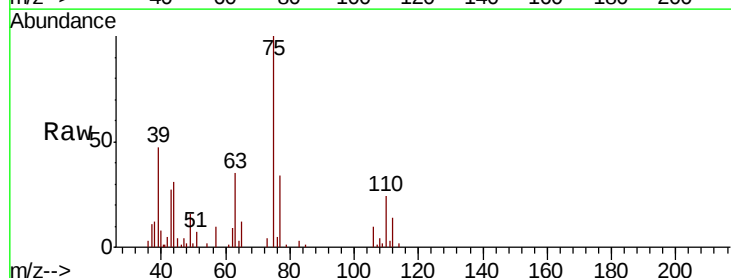
Tgt Ion: 75 Resp: 21406

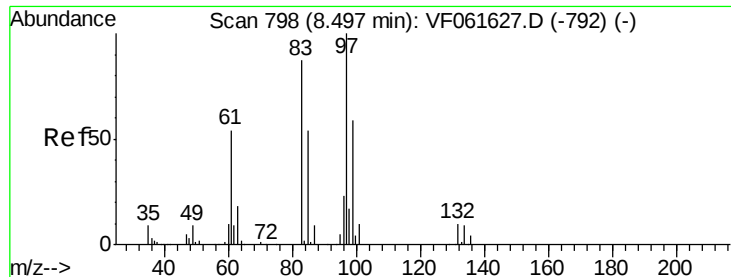
Ion Ratio Lower Upper

75 100

77 34.1 26.4 39.6

39 47.4 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 4.945 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

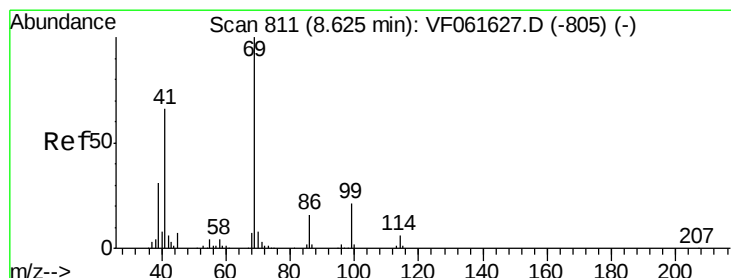
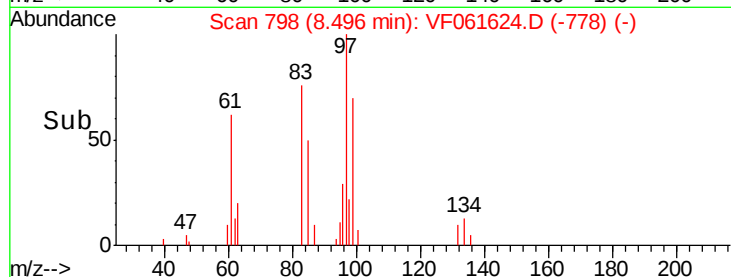
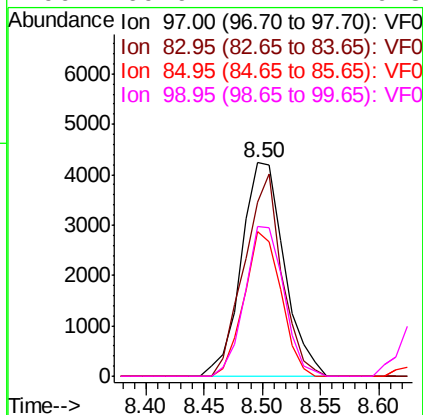
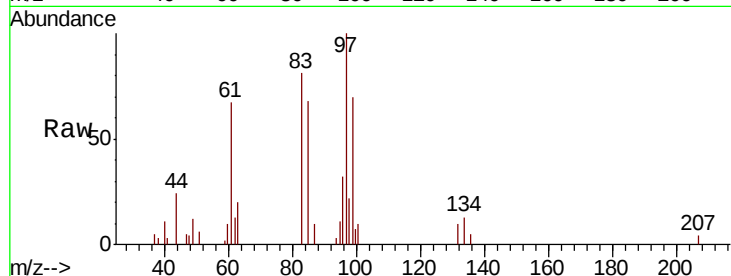
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	10831
Ion	Ratio	Lower	Upper
97	100		
83	81.4	69.2	103.8
85	67.8	43.0	64.4#
99	69.9	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 4.838 ug/l

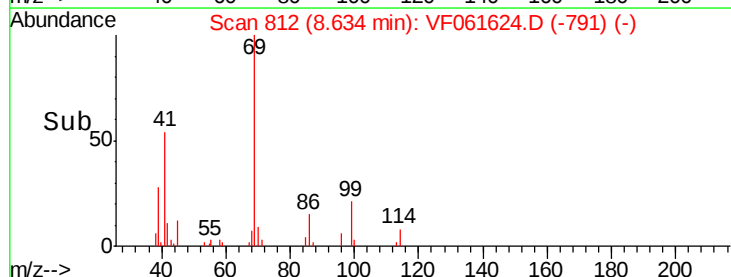
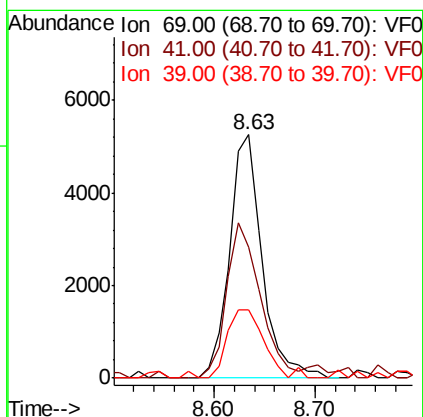
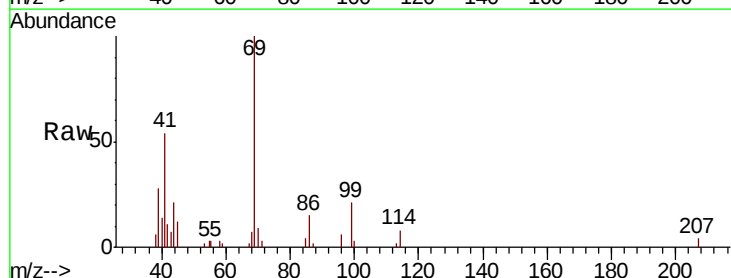
RT: 8.63 min Scan# 812

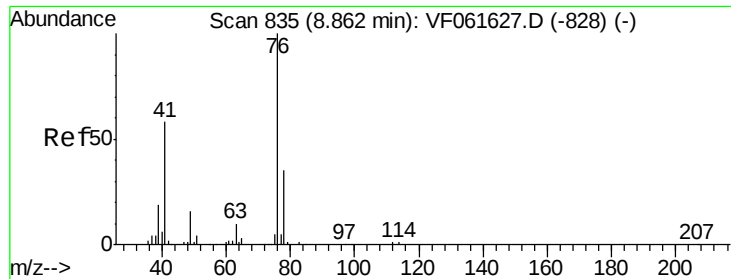
Delta R.T. 0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	69	Resp:	11748
Ion	Ratio	Lower	Upper
69	100		
41	53.9	52.9	79.3
39	28.2	24.5	36.7





#57

1,3-Dichloropropane

Concen: 4.578 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 17453

Ion Ratio Lower Upper

76 100

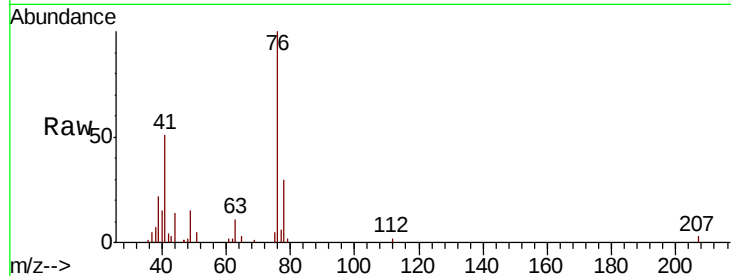
78 29.7 27.8 41.6

Manual Integrations

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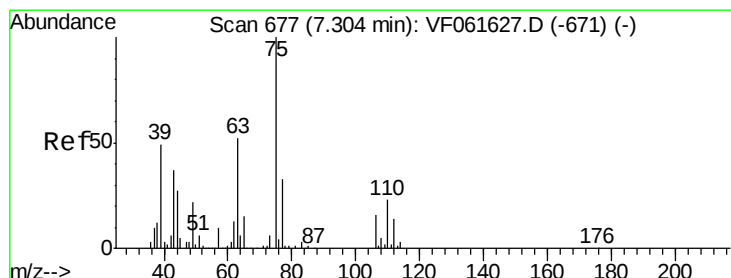
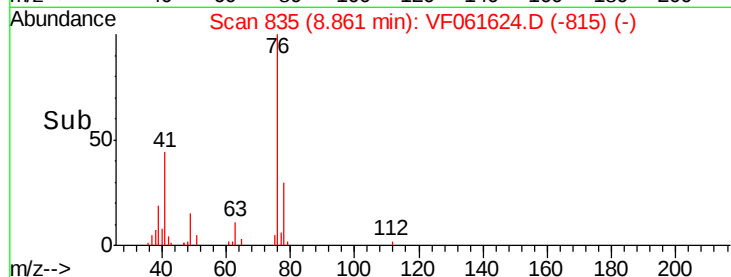
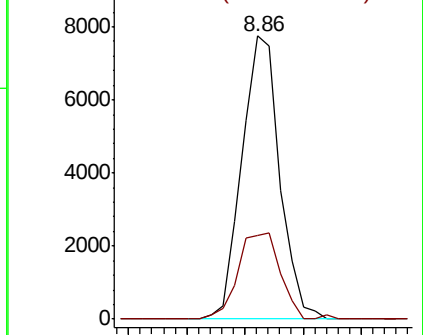
MMDadoda

2/14/2019 12:41:41 PM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 22.459 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061624.D

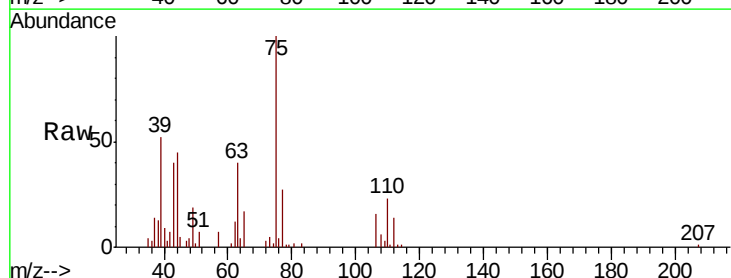
Acq: 13 Feb 2019 16:08

Tgt Ion: 63 Resp: 9199

Ion Ratio Lower Upper

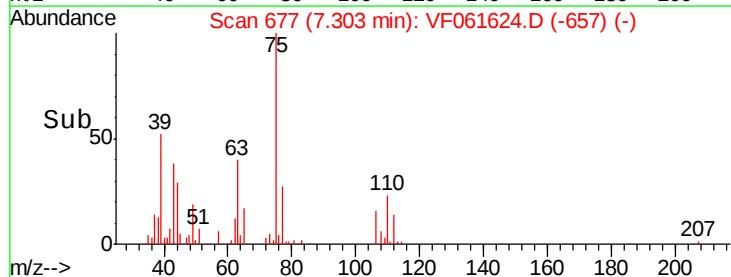
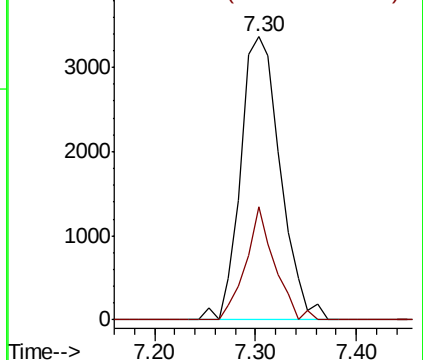
63 100

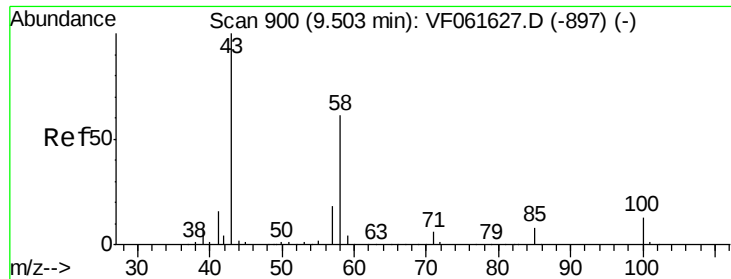
106 39.9 24.6 36.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





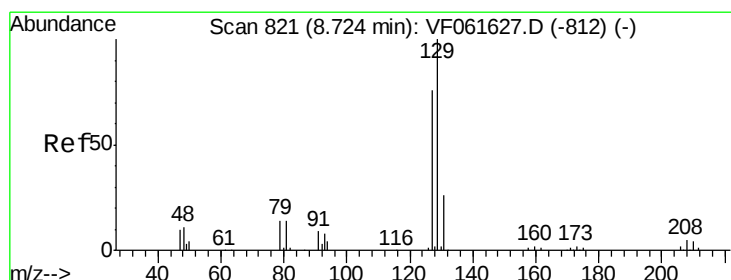
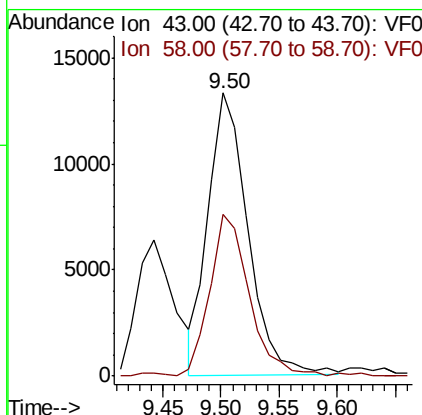
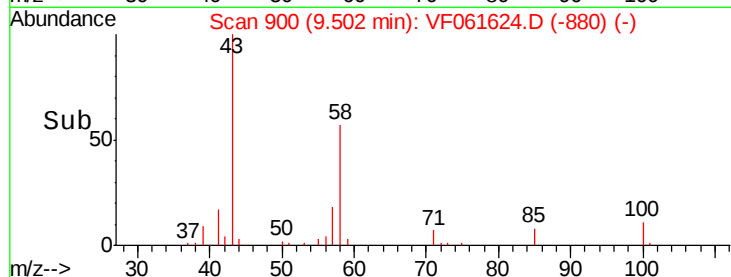
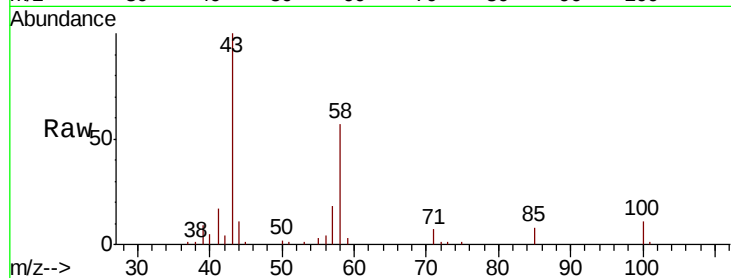
#59
2-Hexanone
Concen: 24.531 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 31560
Ion Ratio Lower Upper
43 100
58 57.1 28.5 85.5

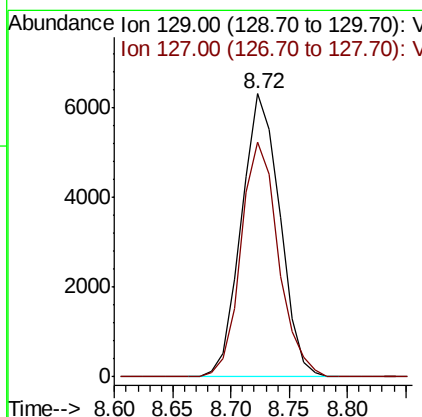
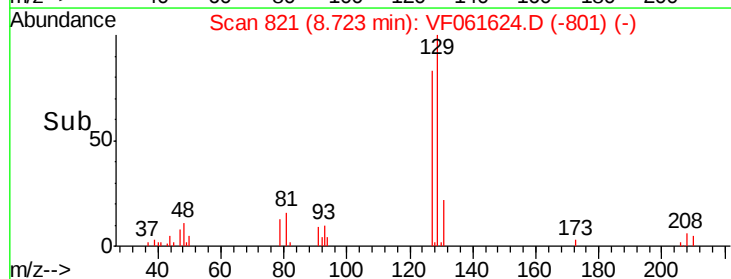
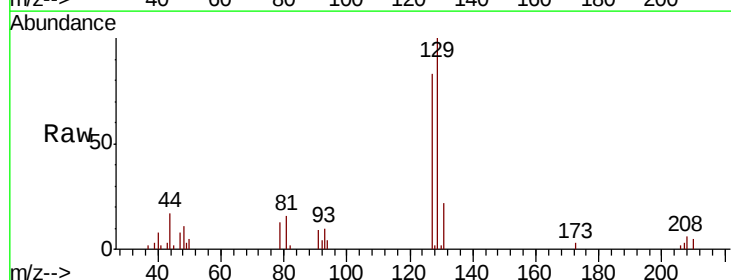
Manual Integrations
APPROVED

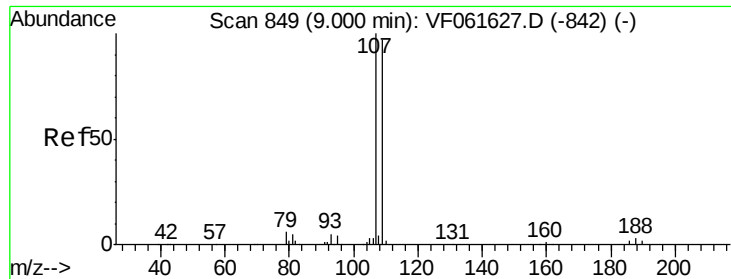
MMDadoda
2/14/2019 12:41:41 PM



#60
Dibromochloromethane
Concen: 4.734 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion: 129 Resp: 14404
Ion Ratio Lower Upper
129 100
127 83.1 37.8 113.4





#61

1,2-Dibromoethane

Concen: 4.897 ug/l

RT: 9.00 min Scan# 849

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 11187

Ion Ratio Lower Upper

107 100

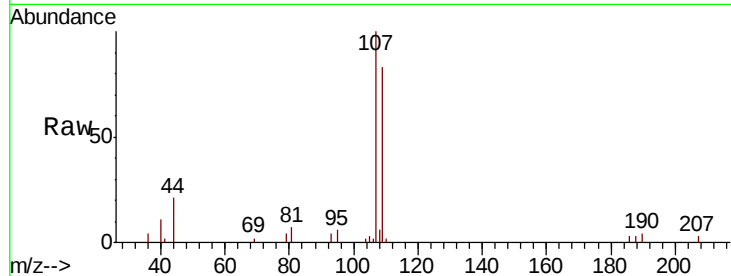
109 82.7 77.4 116.0

Manual Integrations

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MMDadoda

2/14/2019 12:41:41 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.00

6000

5000

4000

3000

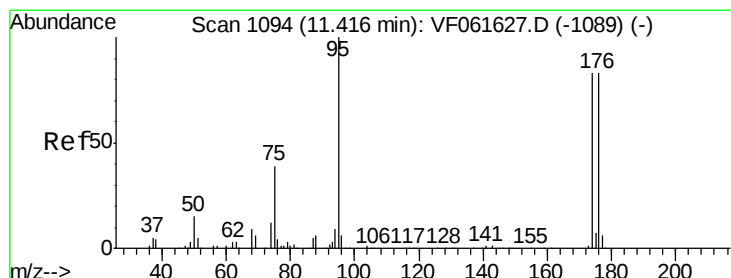
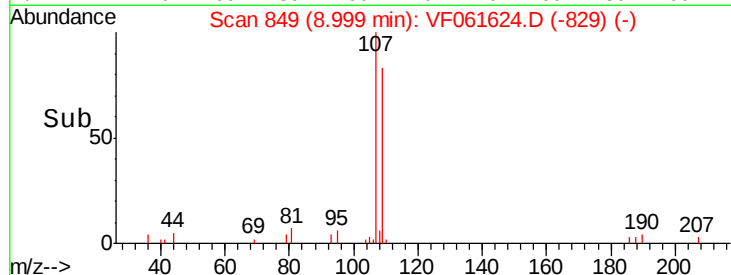
2000

1000

0

Time-->

8.90 8.95 9.00 9.05



#62

4-Bromofluorobenzene

Concen: 5.119 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

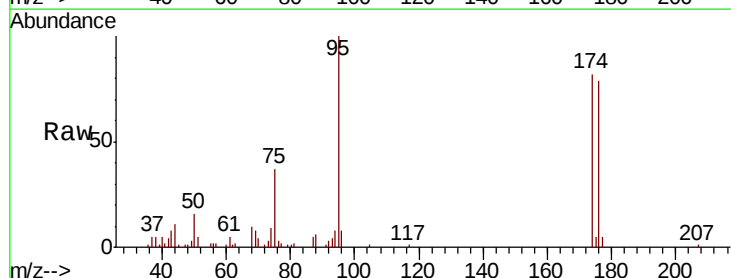
Tgt Ion: 95 Resp: 22051

Ion Ratio Lower Upper

95 100

174 81.6 0.0 165.8

176 79.3 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

11.41

15000

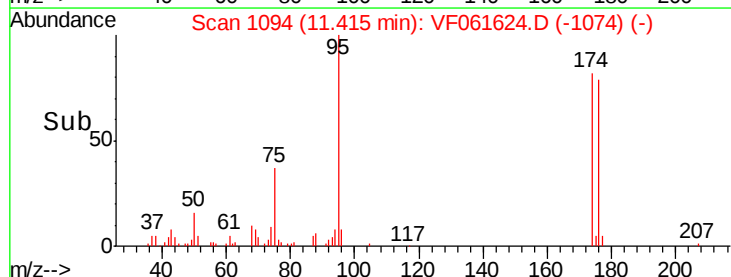
10000

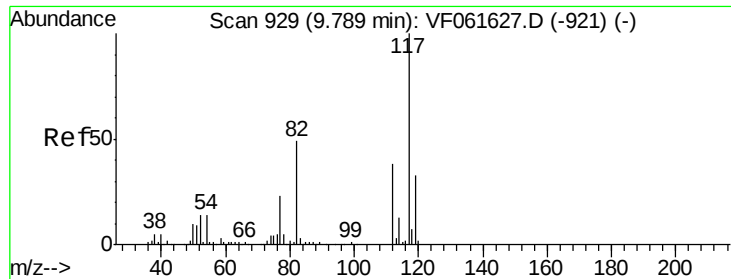
5000

0

Time-->

11.40 11.50





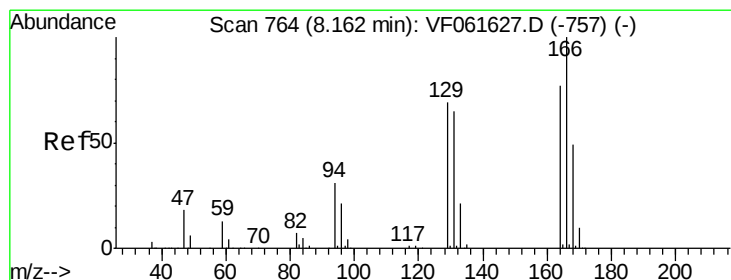
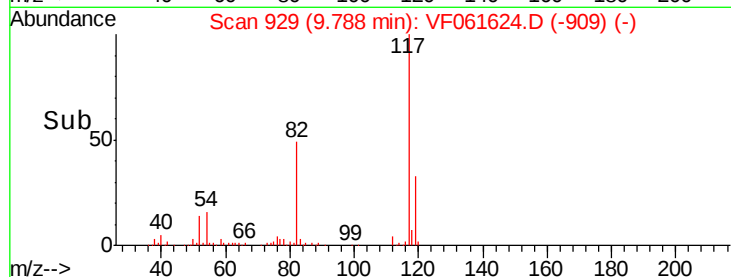
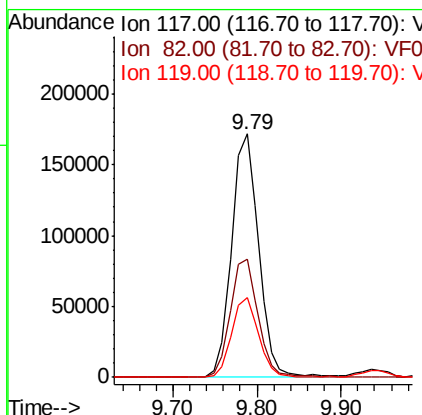
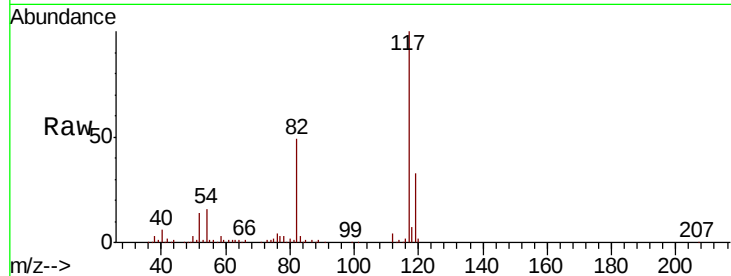
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	385693		
82	48.6		39.3	58.9
119	32.9		26.6	40.0

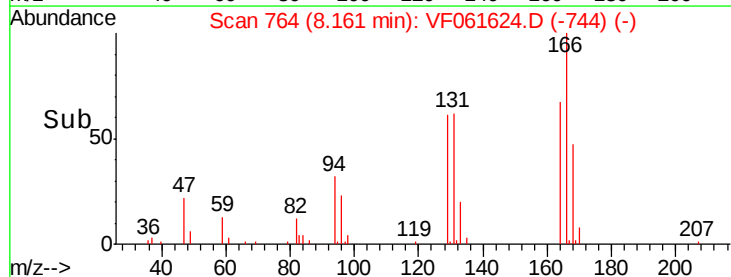
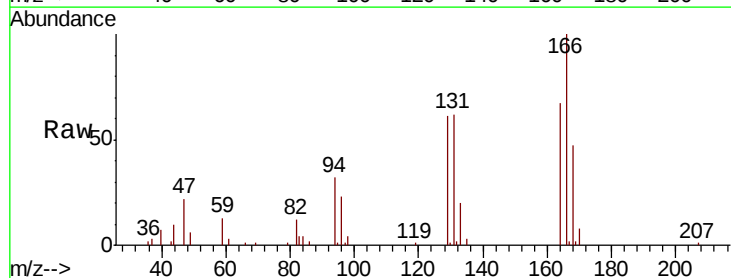
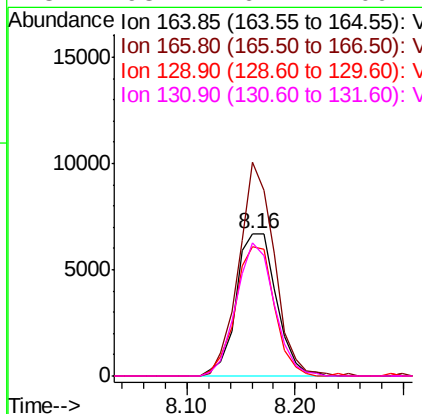
Manual Integrations
APPROVED

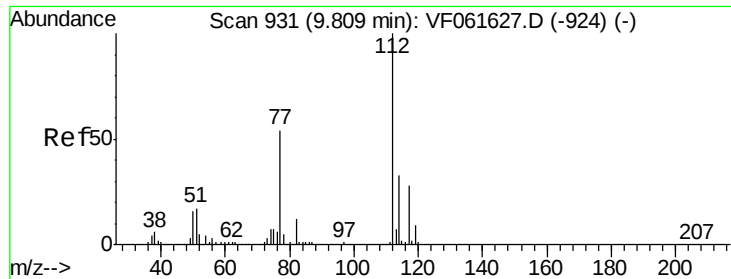
MMDadoda
2/14/2019 12:41:41 PM



#64
Tetrachloroethene
Concen: 5.917 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	17267		
166	149.9		103.9	155.9
129	91.1		71.3	106.9
131	93.2		67.1	100.7





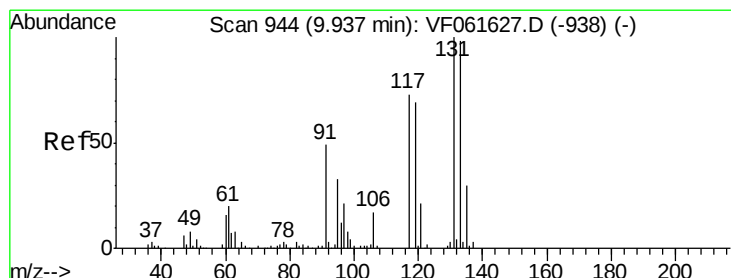
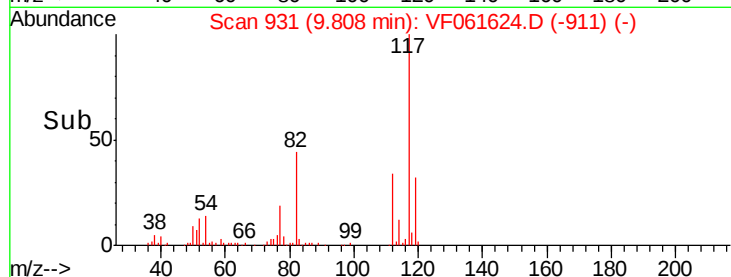
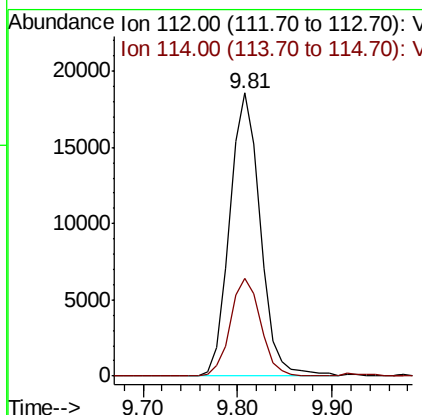
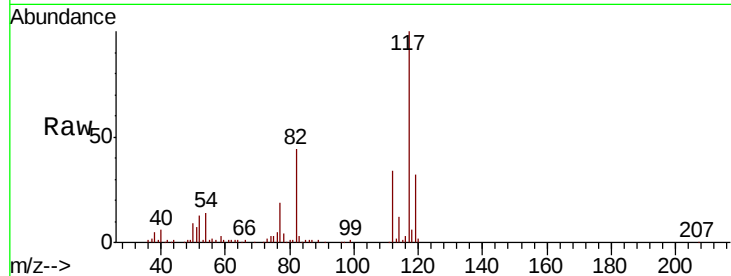
#65
Chlorobenzene
Concen: 5.533 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 41508
Ion Ratio Lower Upper
112 100
114 34.6 26.2 39.2

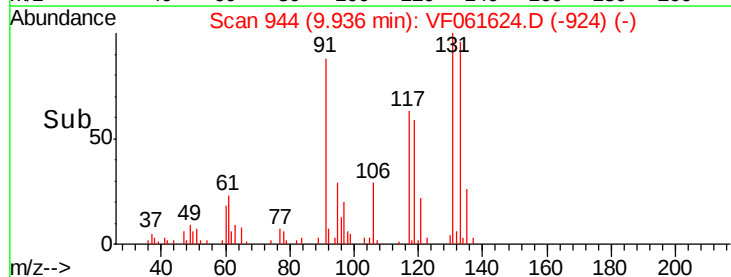
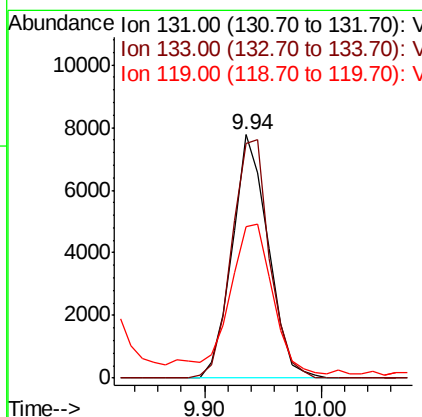
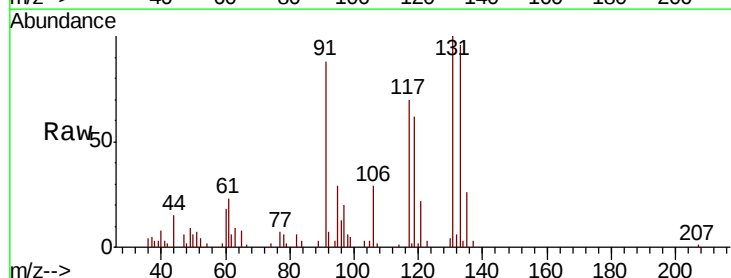
Manual Integrations
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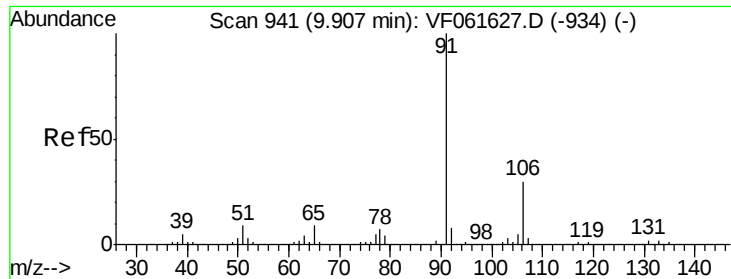
MMDadoda
2/14/2019 12:41:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.386 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion:131 Resp: 16665
Ion Ratio Lower Upper
131 100
133 96.2 48.9 146.6
119 62.0 34.8 104.3





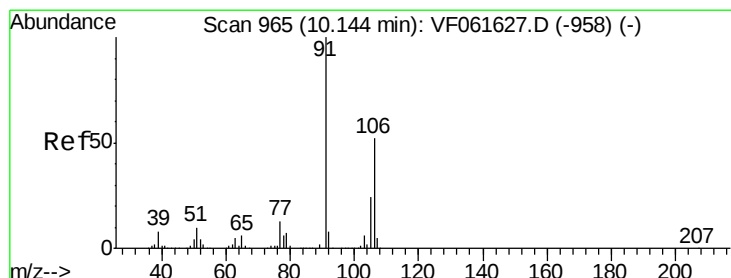
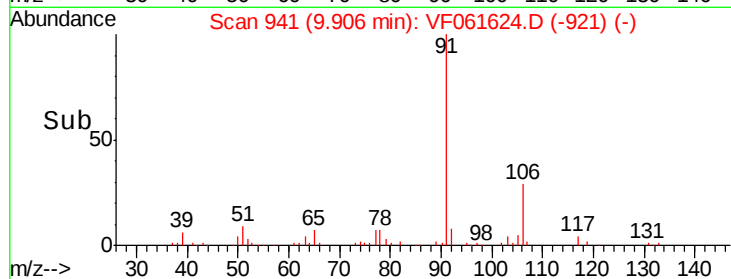
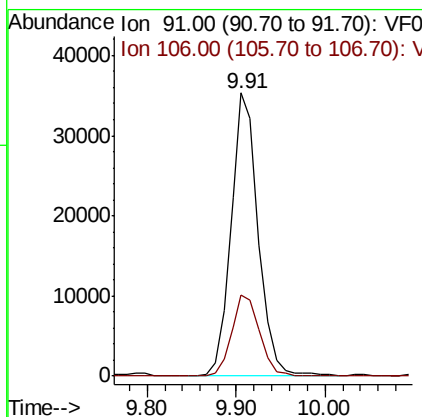
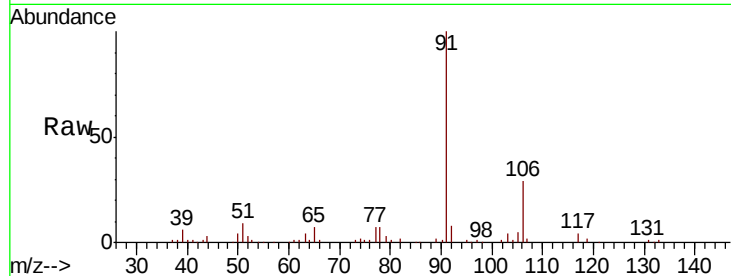
#67
Ethyl Benzene
Concen: 5.498 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 75096
Ion Ratio Lower Upper
91 100
106 28.5 24.1 36.1

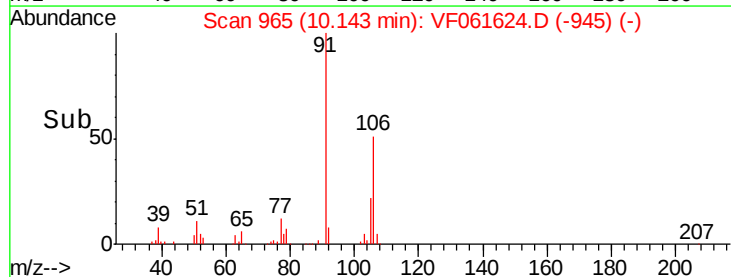
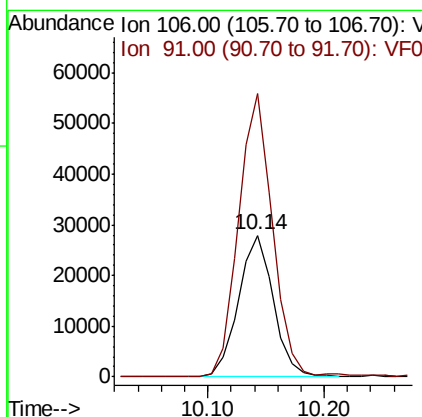
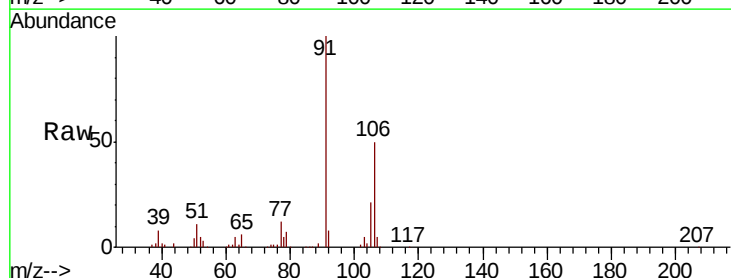
Manual Integrations
APPROVED

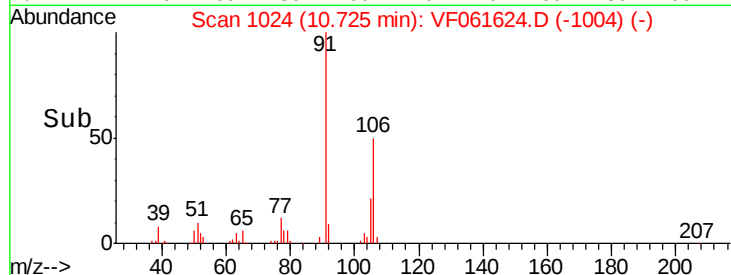
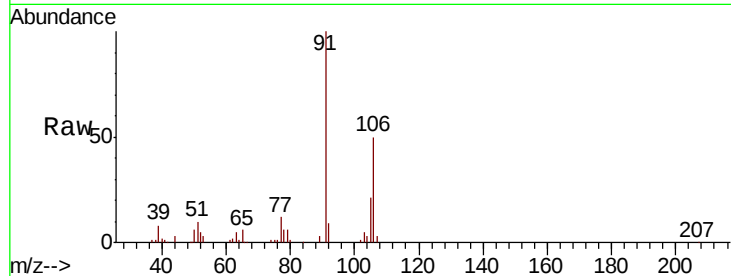
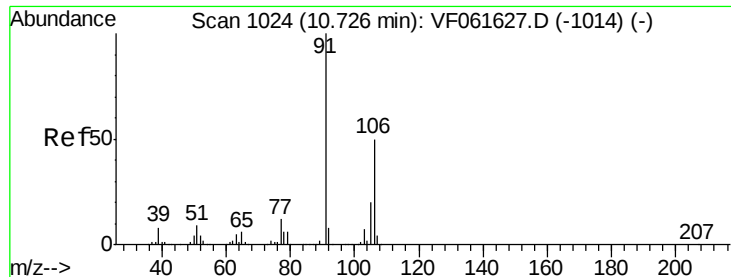
MMDadoda
2/14/2019 12:41:41 PM



#68
m/p-Xylenes
Concen: 12.245 ug/l
RT: 10.14 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion: 106 Resp: 58021
Ion Ratio Lower Upper
106 100
91 199.7 153.0 229.6





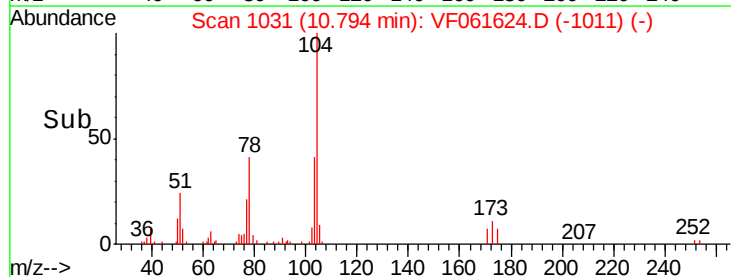
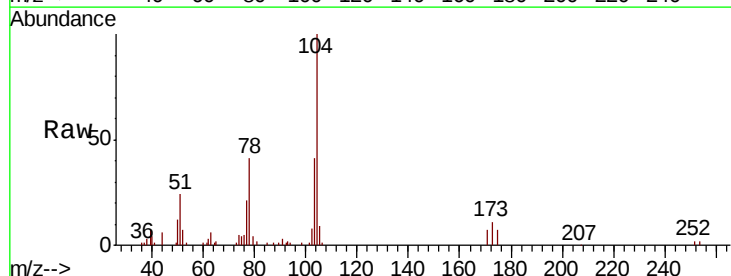
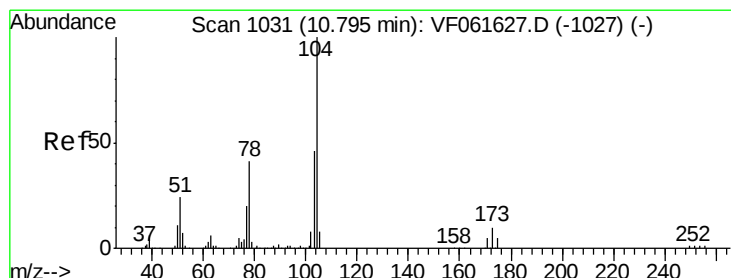
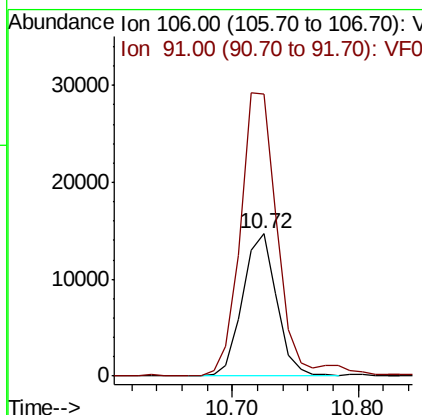
#69
o-Xylene
Concen: 5.285 ug/l
RT: 10.72 min Scan# 1024
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	198.2	100.1	300.1

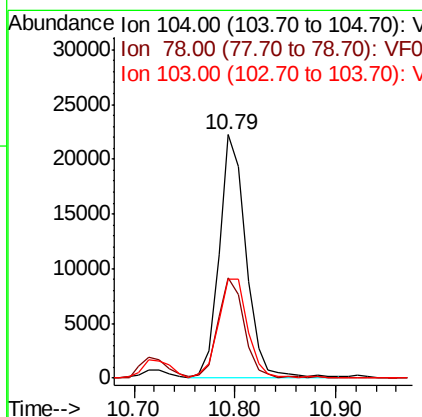
Manual Integrations
APPROVED

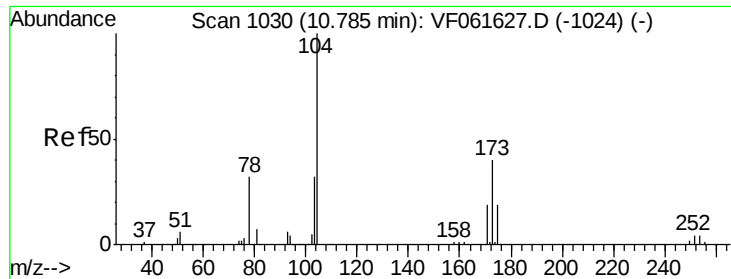
MMDadoda
2/14/2019 12:41:41 PM



#70
Styrene
Concen: 5.717 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.3	33.2	49.8
103	40.6	37.2	55.8





#71

Bromoform

Concen: 5.836 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

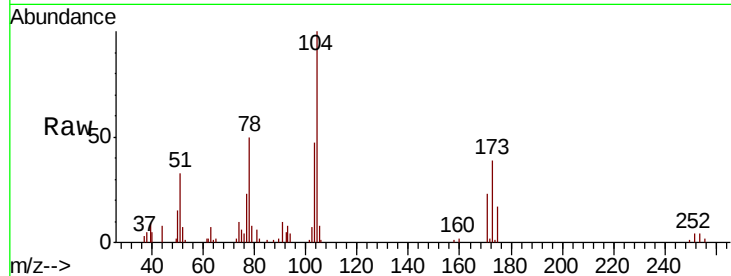
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	42.3	24.0	72.0
254	9.6	8.2	12.2

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

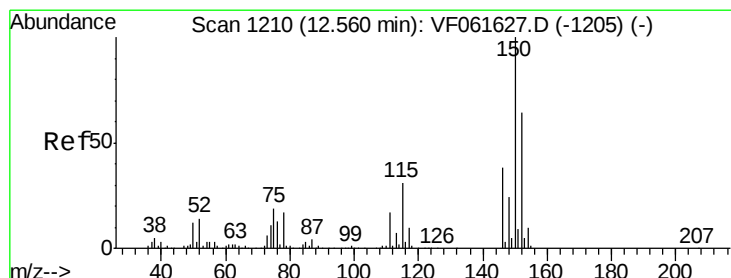
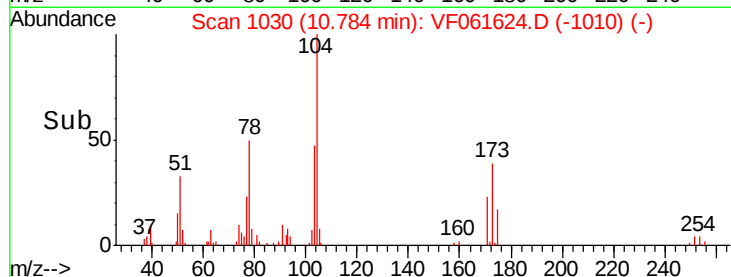
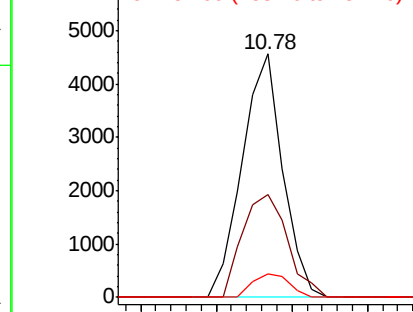


Abundance

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: VF061624.D

Acq: 13 Feb 2019 16:08

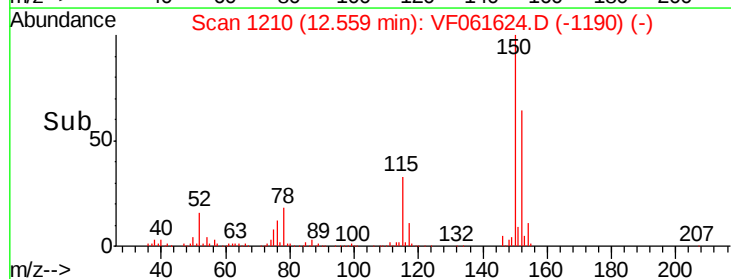
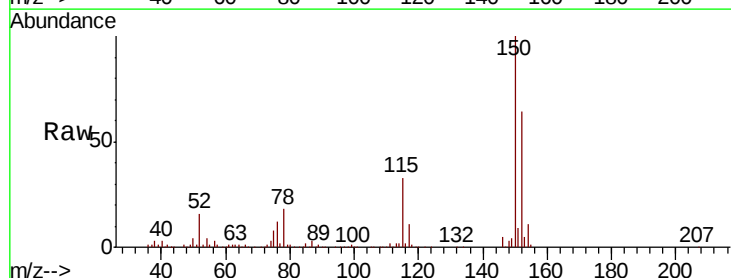
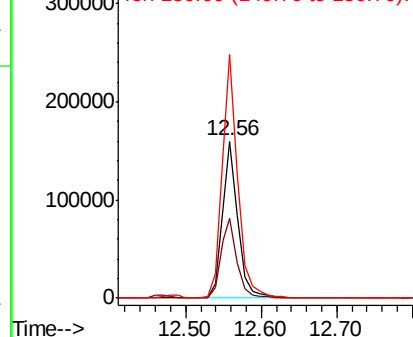
Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.0	24.3	72.8
150	155.2	0.0	312.0

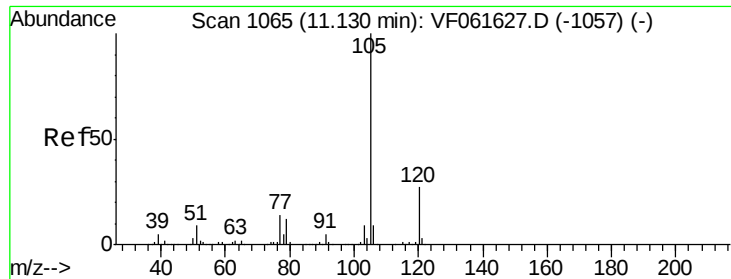
Abundance

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: 4.763 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 85507

Ion Ratio Lower Upper

105 100

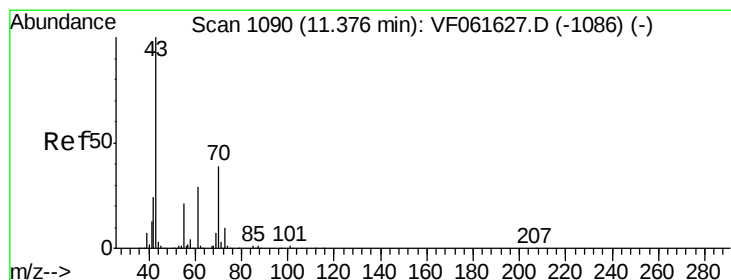
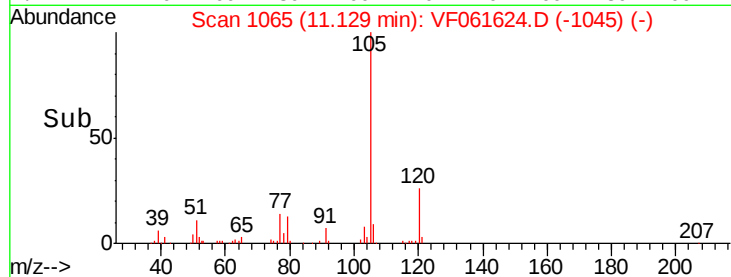
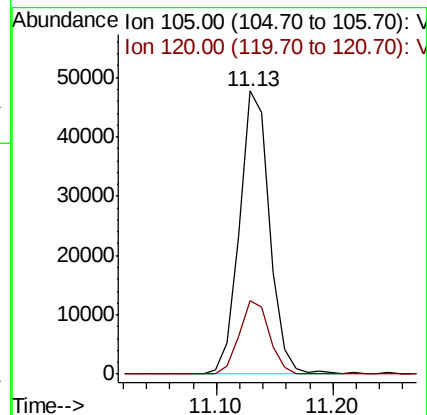
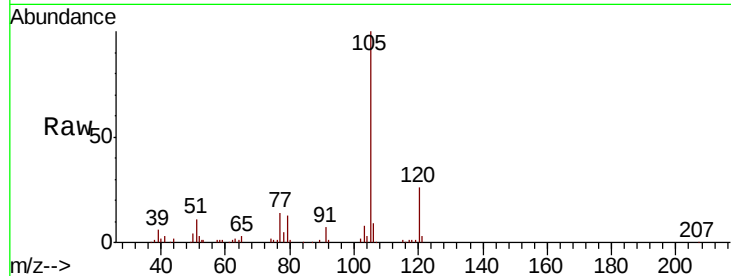
120 25.9 13.4 40.1

Manual Integrations

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2/14/2019 12:41:41 PM



#74

N-ethyl acetate

Concen: 4.372 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion: 43 Resp: 19761

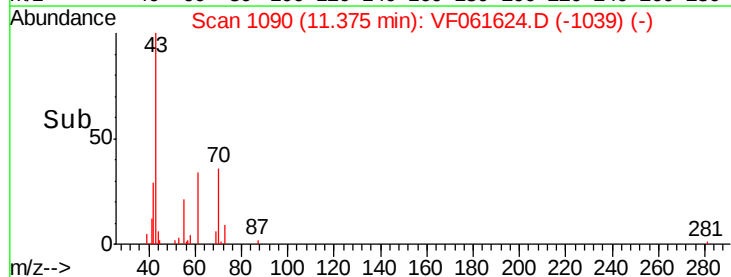
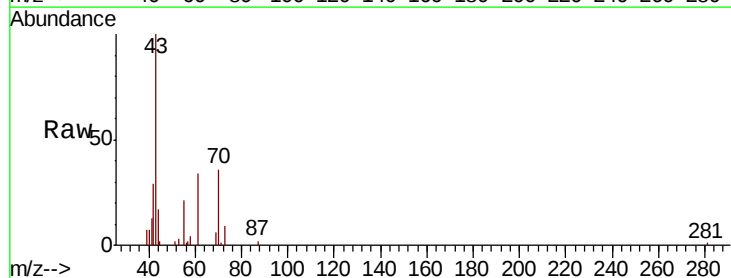
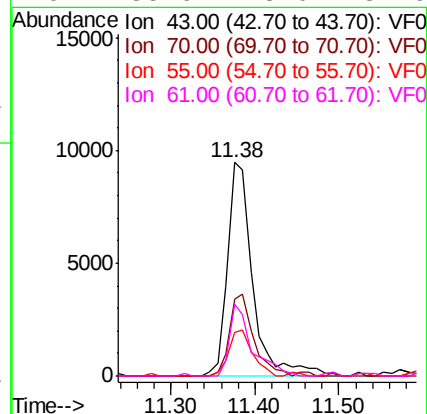
Ion Ratio Lower Upper

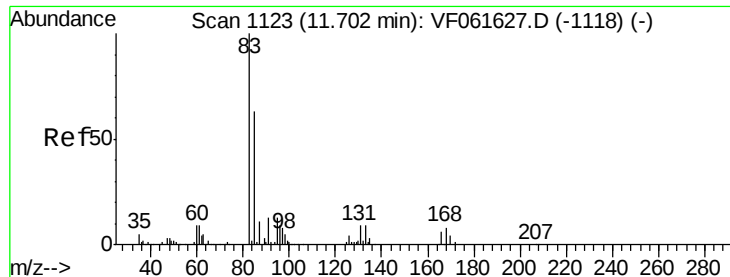
43 100

70 35.9 31.5 47.3

55 20.6 16.7 25.1

61 33.6 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 4.560 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

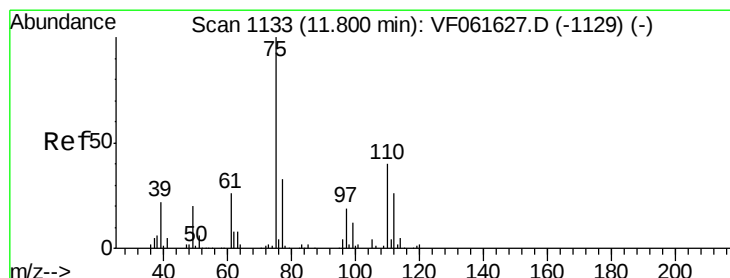
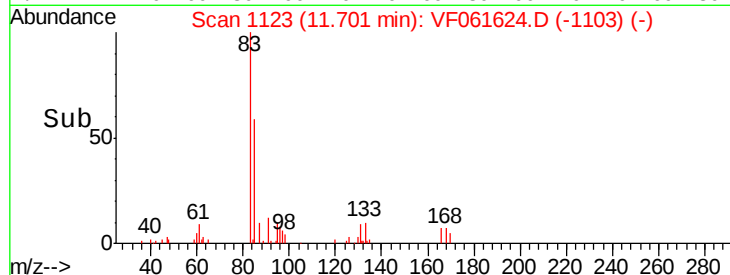
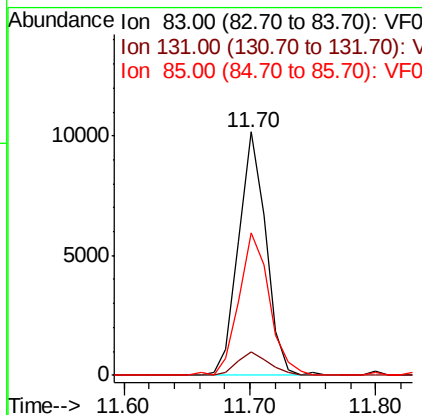
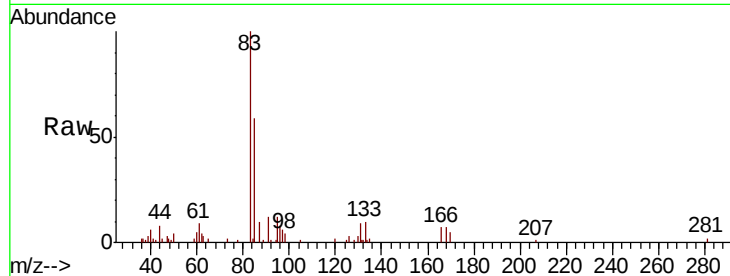
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	15279
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.4	13.2
85	58.7	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.571 ug/l

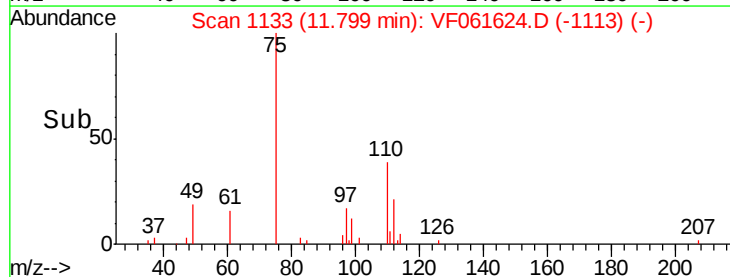
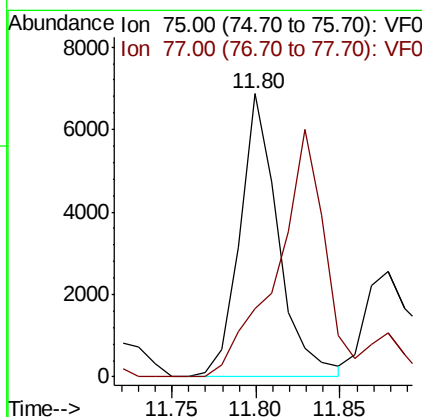
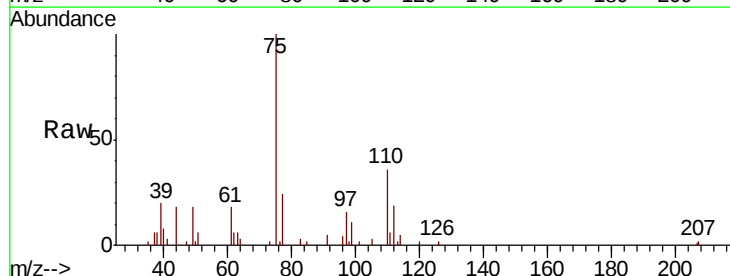
RT: 11.80 min Scan# 1133

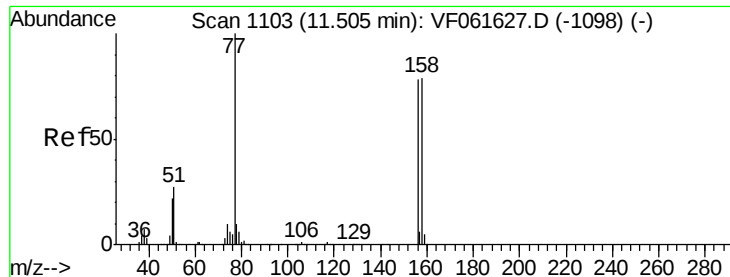
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	75	Resp:	10882
Ion Ratio	Lower	Upper	
75	100		
77	24.3	16.6	49.7





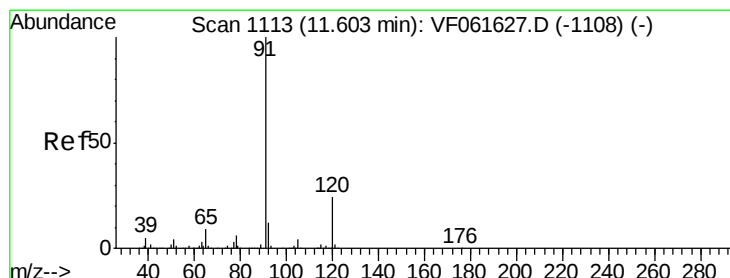
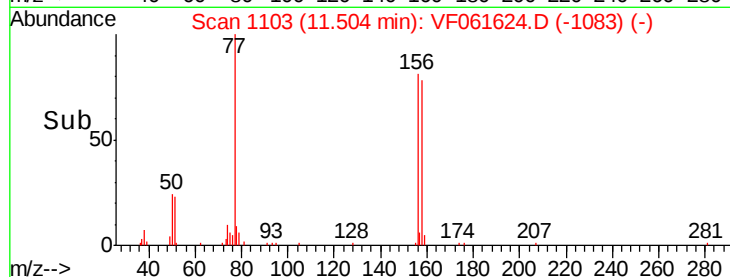
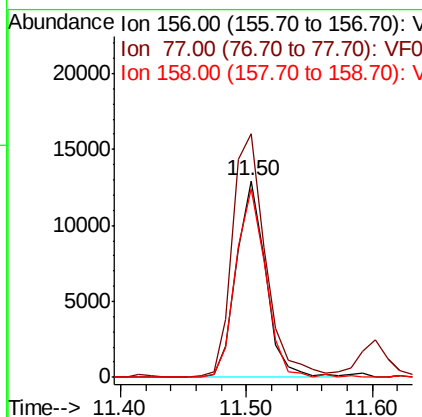
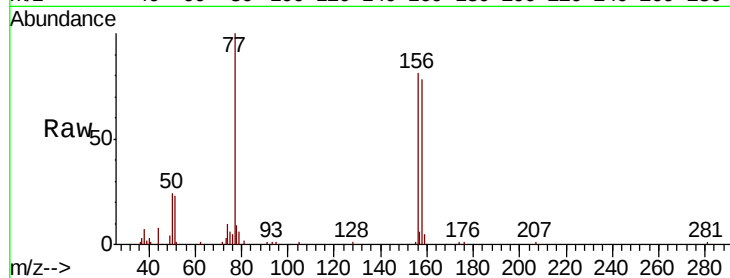
#77
Bromobenzene
Concen: 5.248 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	123.9	64.3	192.7
158	96.2	50.9	152.7

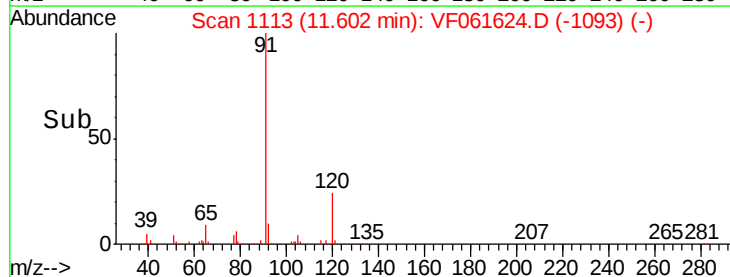
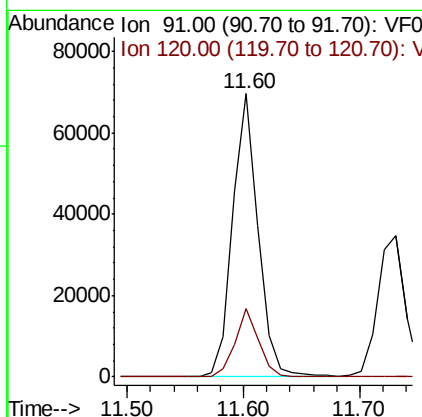
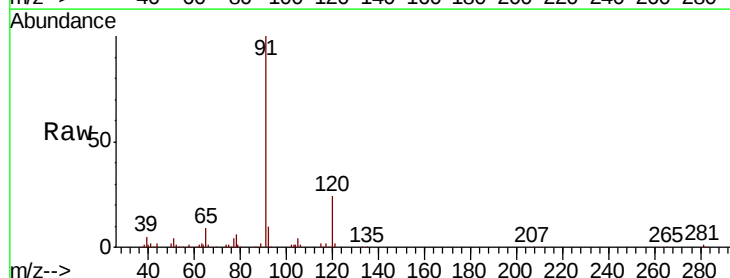
Manual Integrations
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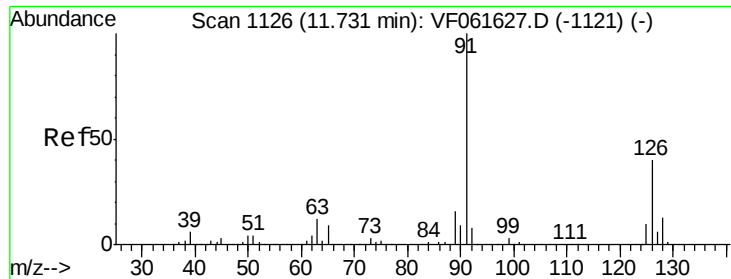
MMDadoda
2/14/2019 12:41:41 PM



#78
n-propylbenzene
Concen: 4.908 ug/l
RT: 11.60 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	12.1	36.3





#79

2-Chlorotoluene

Concen: 4.595 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 56421

Ion Ratio Lower Upper

91 100

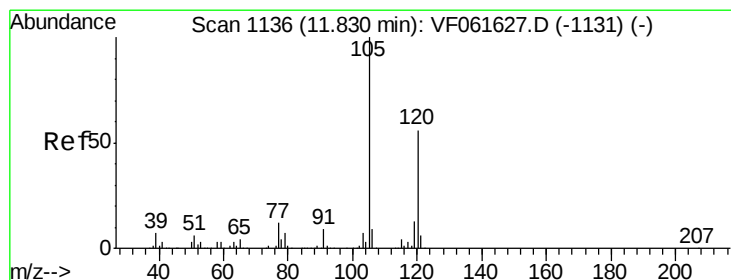
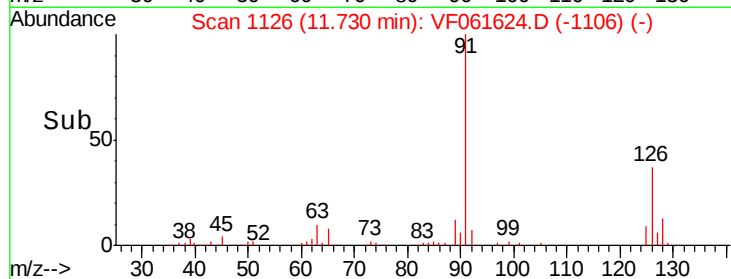
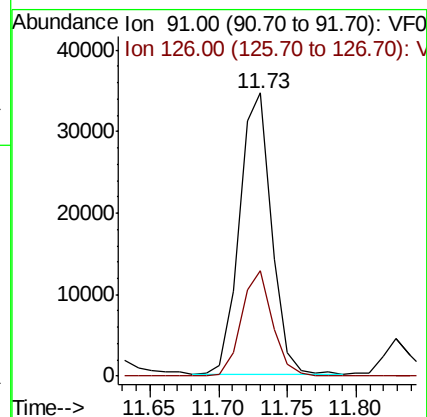
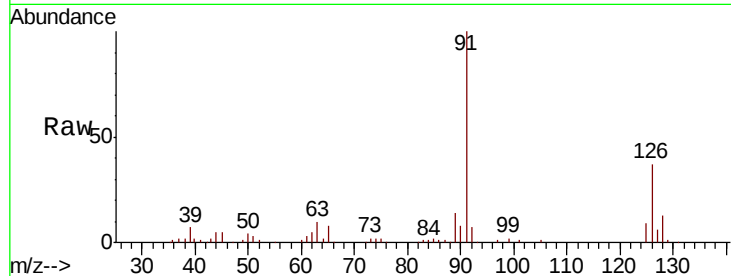
126 37.0 19.8 59.4

Manual Integrations

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2/14/2019 12:41:41 PM



#80

1,3,5-Trimethylbenzene

Concen: 4.619 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF061624.D

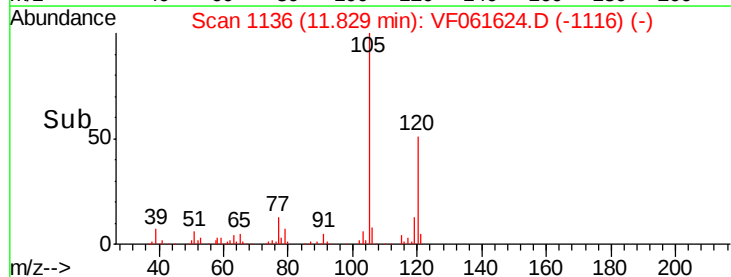
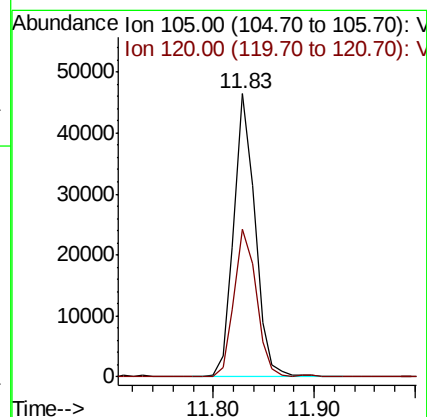
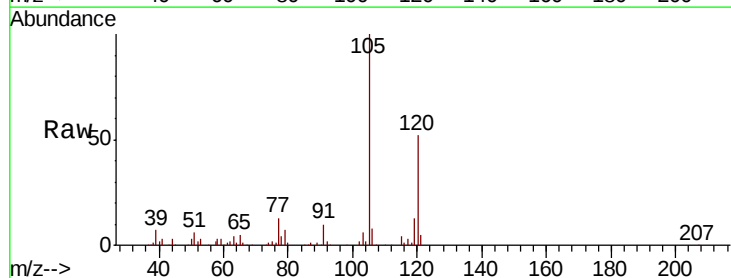
Acq: 13 Feb 2019 16:08

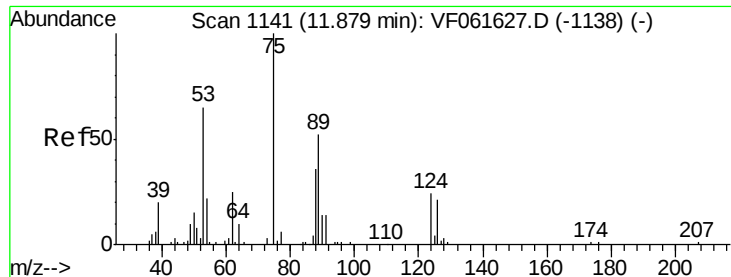
Tgt Ion: 105 Resp: 68409

Ion Ratio Lower Upper

105 100

120 52.4 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 4.909 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

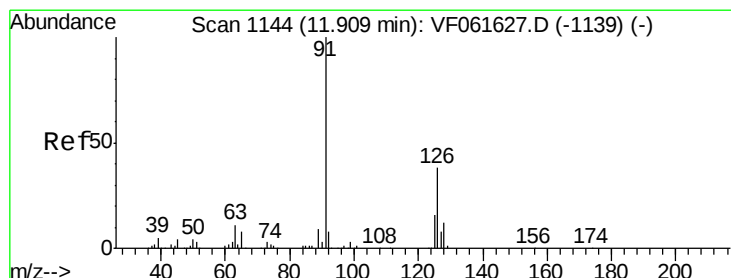
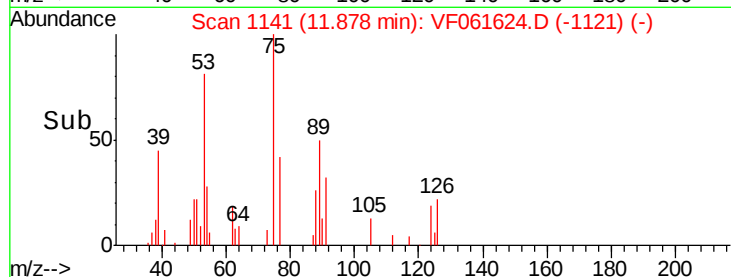
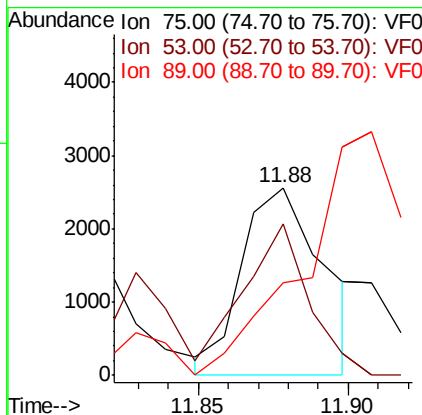
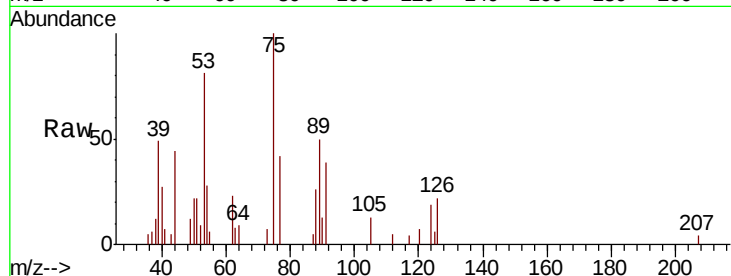
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	4886
Ion	Ratio	Lower	Upper
75	100		
53	80.9	53.7	80.5#
89	49.6	41.6	62.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 4.640 ug/l

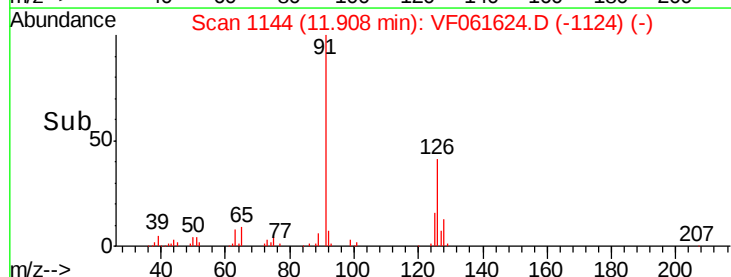
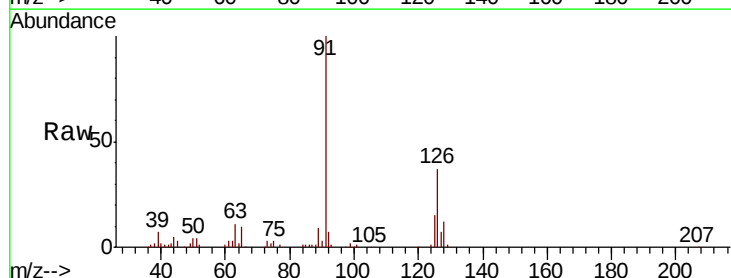
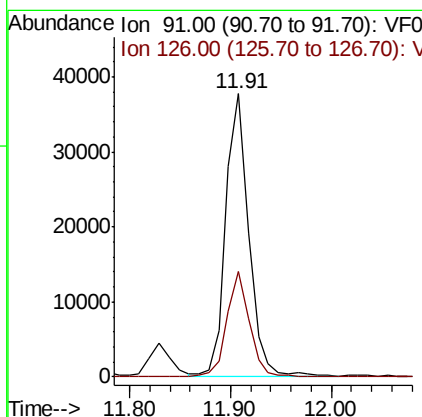
RT: 11.91 min Scan# 1144

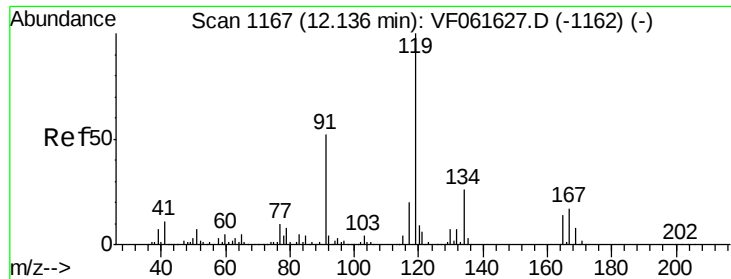
Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Tgt Ion:	91	Resp:	59192
Ion	Ratio	Lower	Upper
91	100		
126	37.2	19.1	57.1





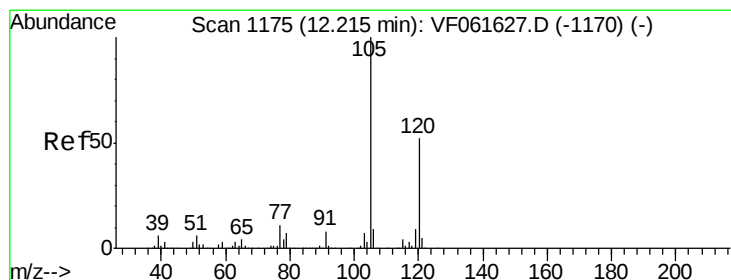
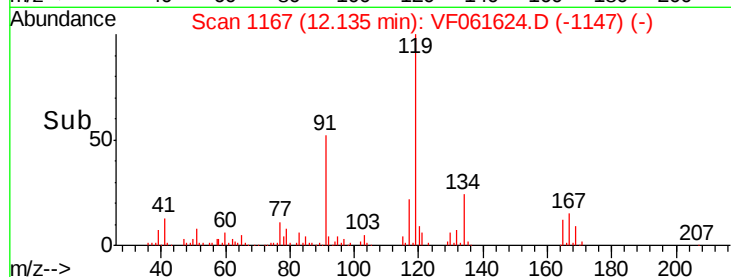
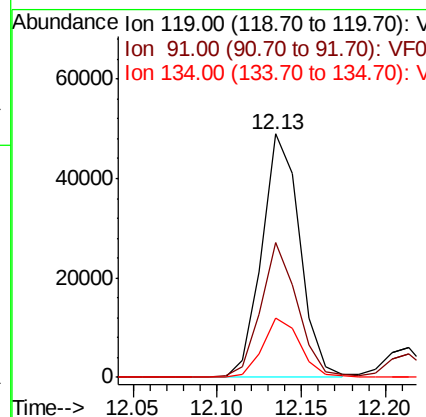
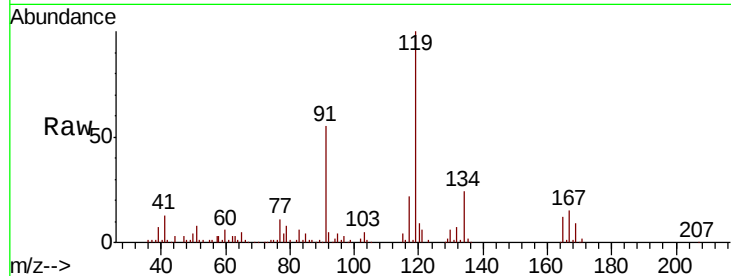
#83
 tert-Butylbenzene
 Concen: 5.026 ug/l
 RT: 12.13 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.2	26.3	78.8
134	24.2	12.9	38.7

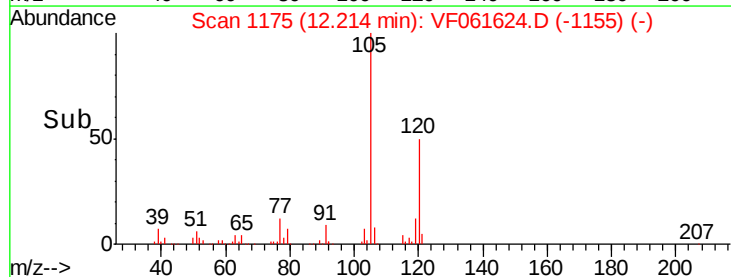
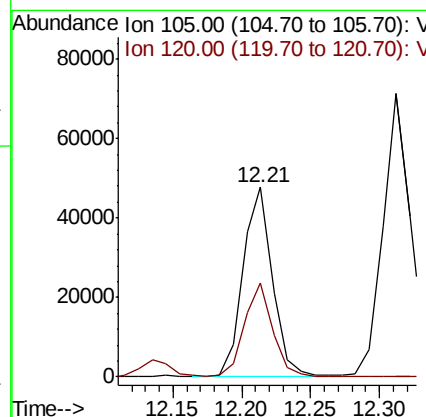
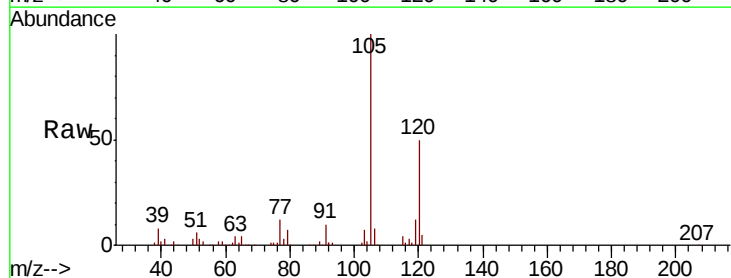
Manual Integrations
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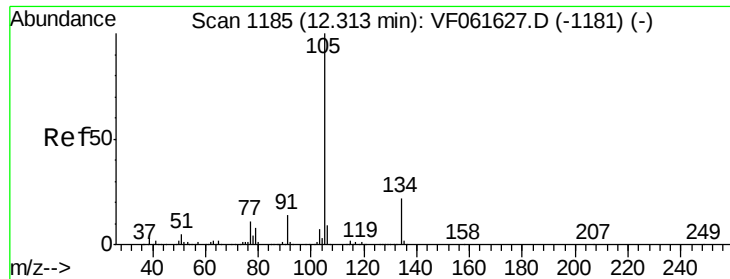
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#84
 1,2,4-Trimethylbenzene
 Concen: 4.947 ug/l
 RT: 12.21 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	26.1	78.3





#85

sec-Butylbenzene

Concen: 4.988 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 101515

Ion Ratio Lower Upper

105 100

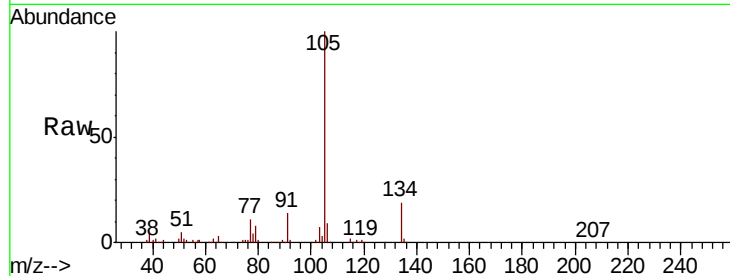
134 19.2 10.8 32.4

Manual Integrations

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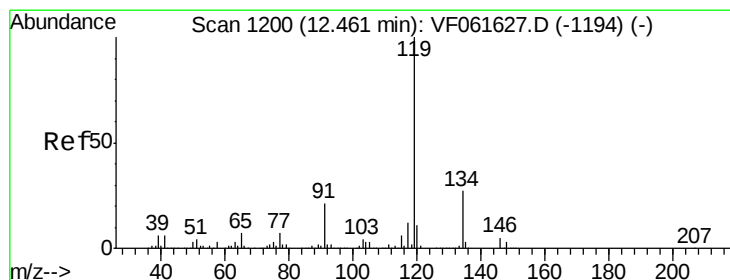
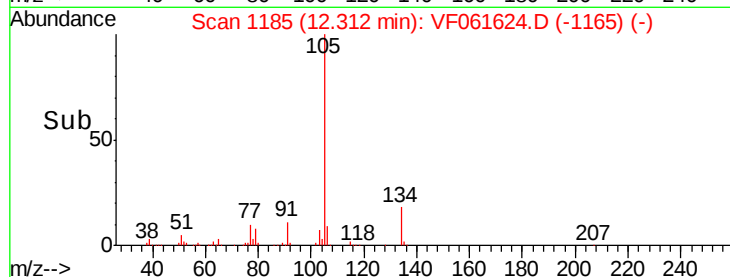
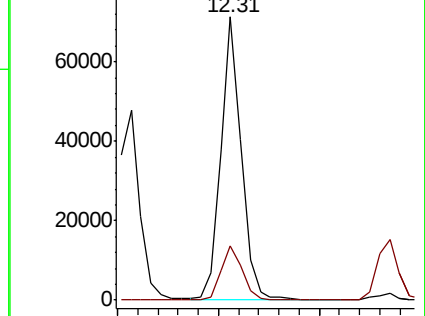
MMDadoda

2/14/2019 12:41:41 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.144 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061624.D

Acq: 13 Feb 2019 16:08

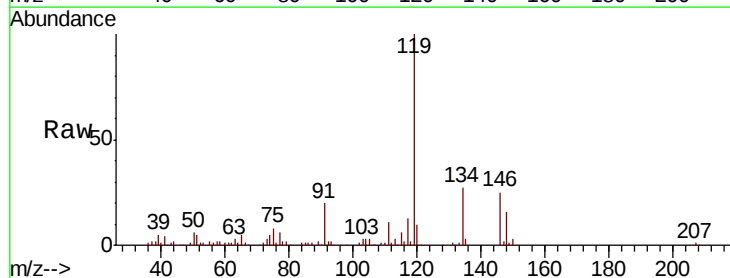
Tgt Ion:119 Resp: 85626

Ion Ratio Lower Upper

119 100

134 27.0 13.7 41.1

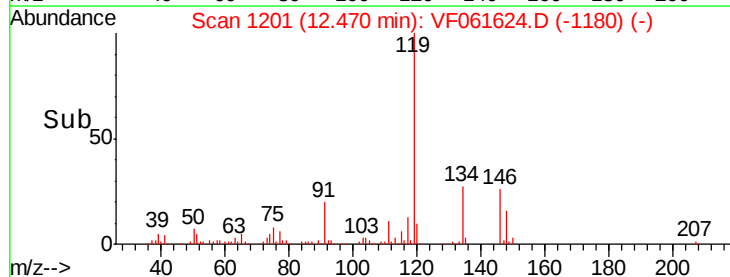
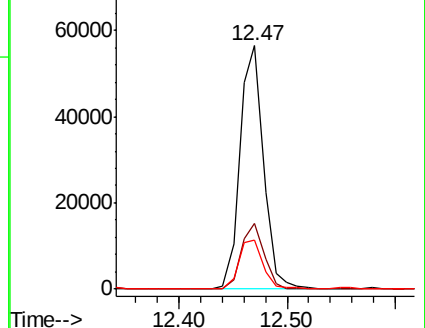
91 20.3 10.8 32.4

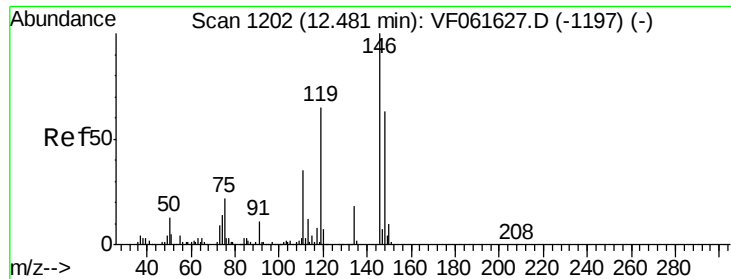


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





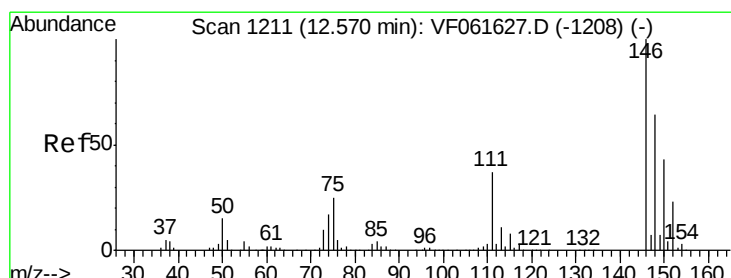
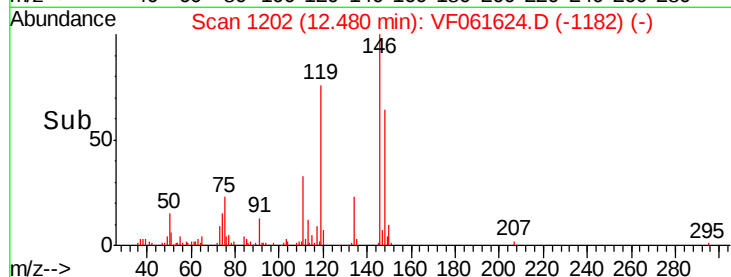
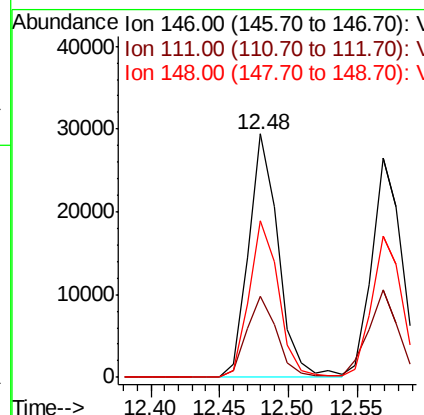
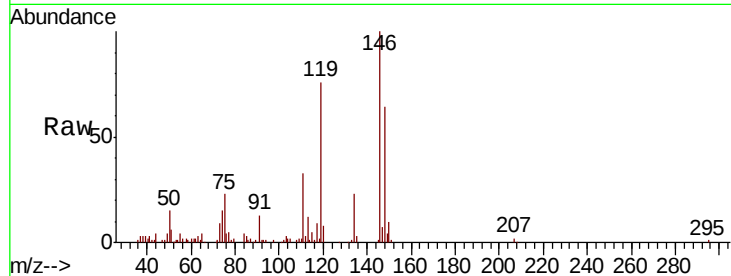
#87
 1,3-Dichlorobenzene
 Concen: 5.806 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.1	17.5	52.6
148	64.3	31.4	94.3

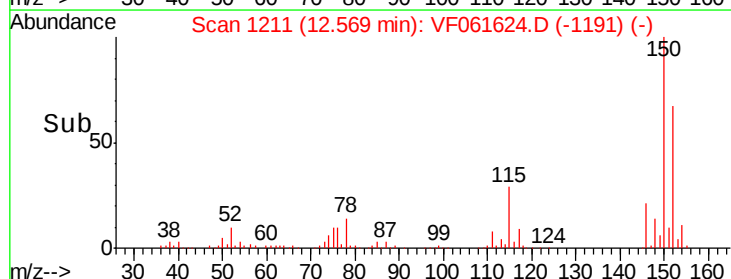
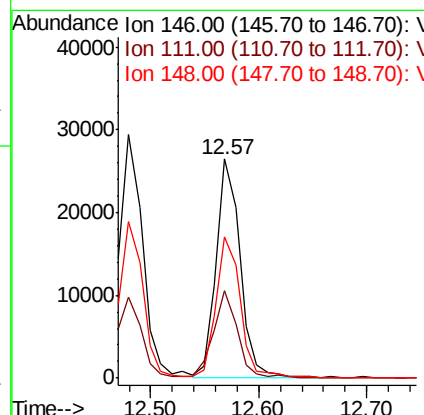
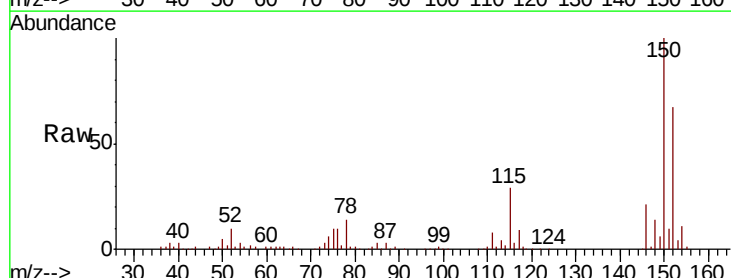
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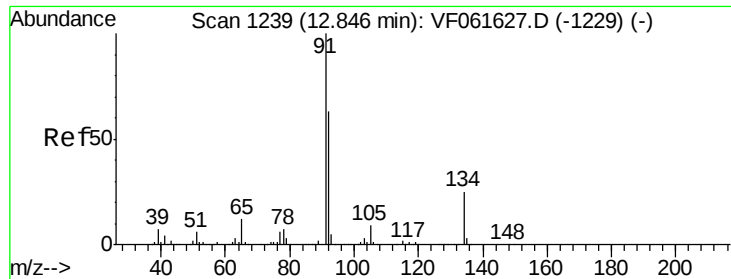
MMDadoda
 2/14/2019 12:41:41 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.648 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	18.4	55.4
148	64.7	32.2	96.6





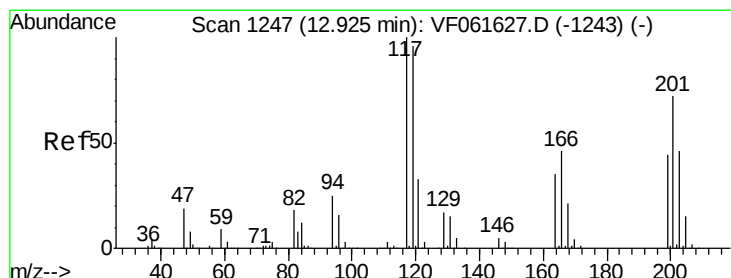
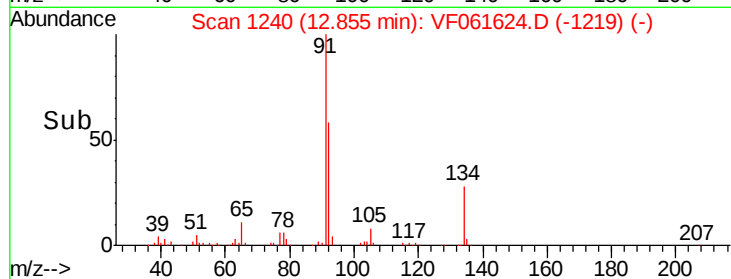
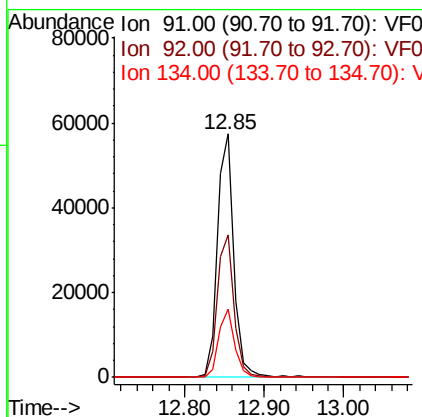
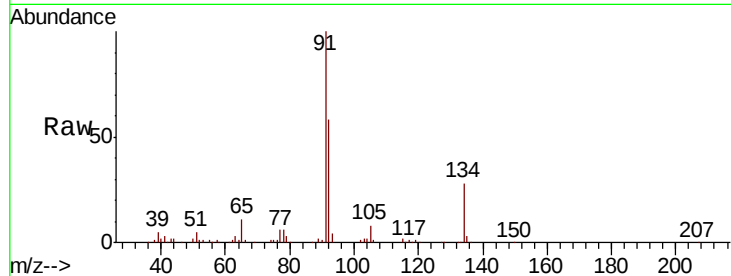
#89
n-Butylbenzene
Concen: 4.964 ug/l
RT: 12.85 min Scan# 1240
Delta R.T. 0.01 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.3	31.4	94.3
134	28.1	12.3	36.9

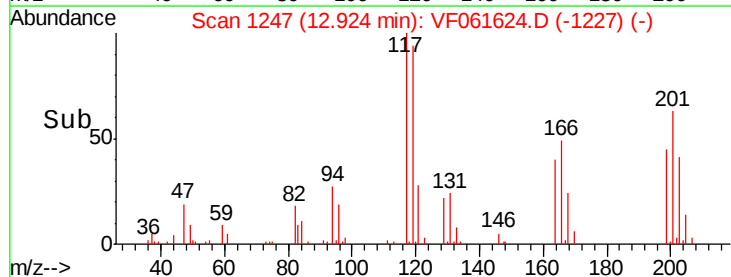
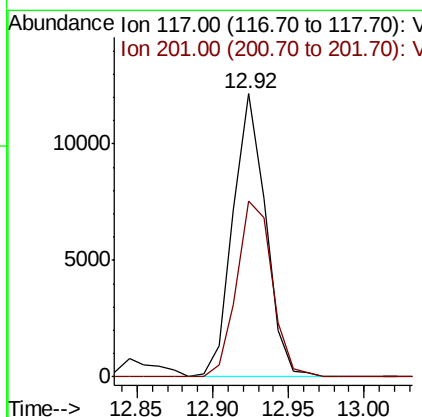
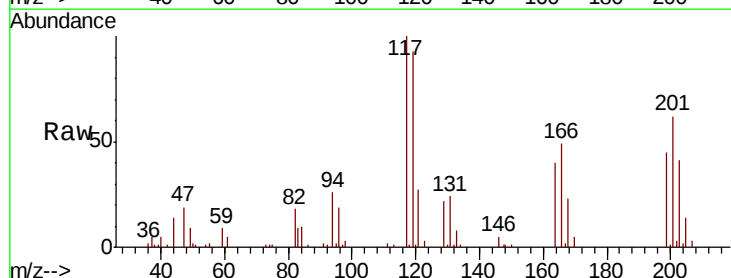
Manual Integrations
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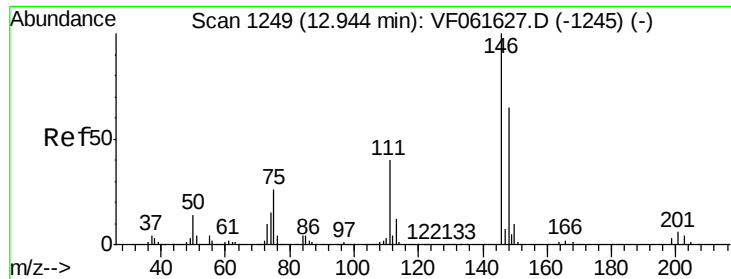
MMDadoda
2/14/2019 12:41:41 PM



#90
Hexachloroethane
Concen: 4.328 ug/l
RT: 12.92 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	62.1	36.2	108.6





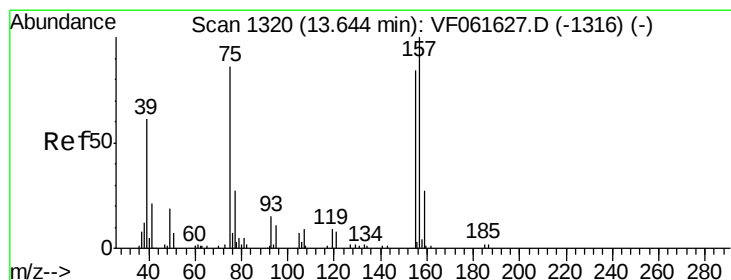
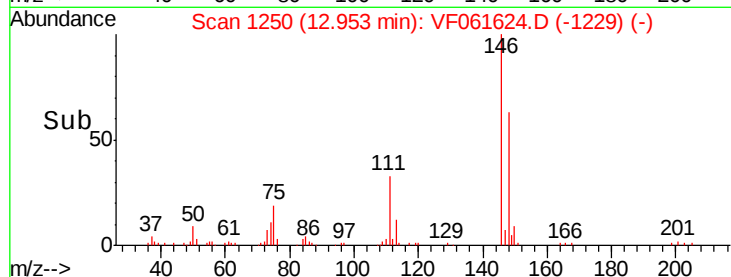
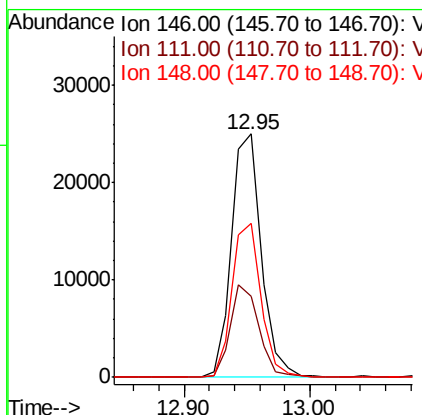
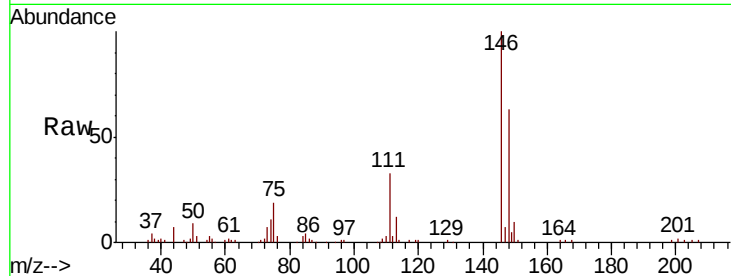
#91
 1,2-Dichlorobenzene
 Concen: 5.689 ug/l
 RT: 12.95 min Scan# 1250
 Delta R.T. 0.01 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.4	20.2	60.5
148	63.2	32.3	96.9

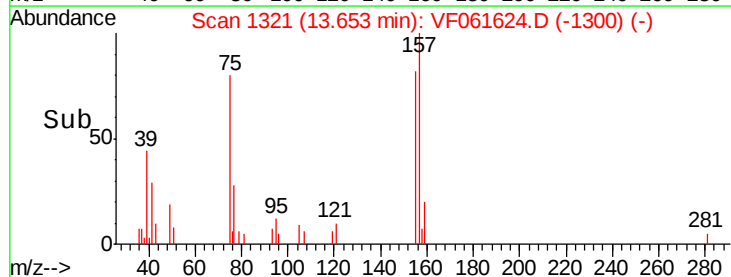
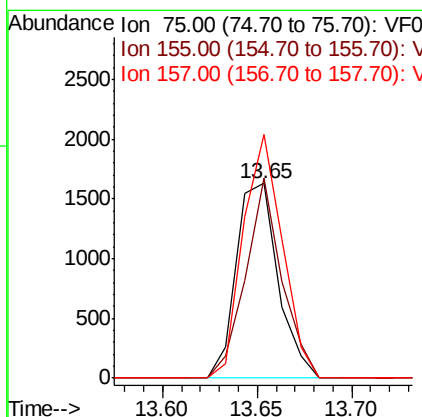
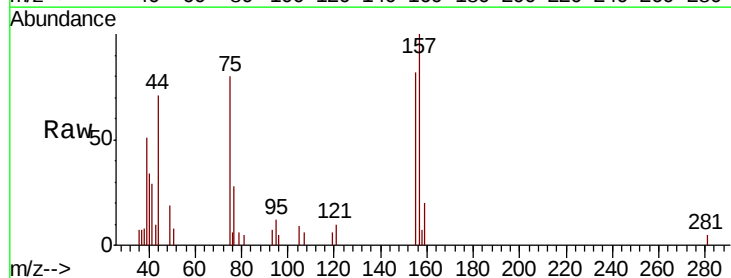
Manual Integrations
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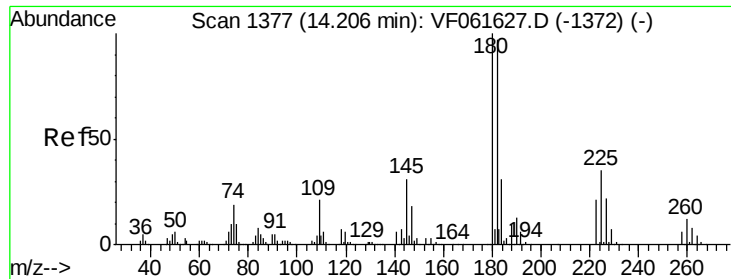
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.298 ug/l
 RT: 13.65 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.0	48.9	146.8
157	124.9	58.3	174.8





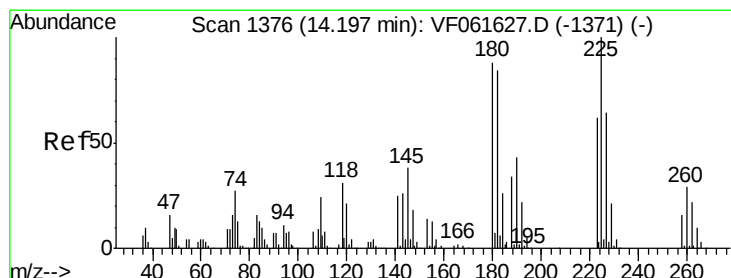
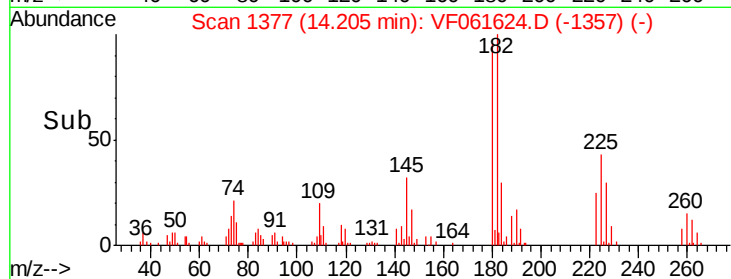
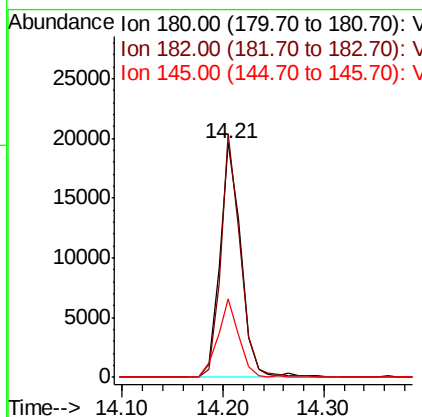
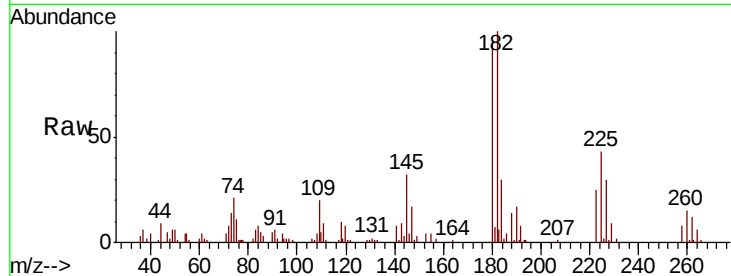
#93
 1,2,4-Trichlorobenzene
 Concen: 5.715 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Instrument :
 MSVOA_F
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	28693		
182	103.8	48.6	145.9	
145	33.3	15.3	45.9	

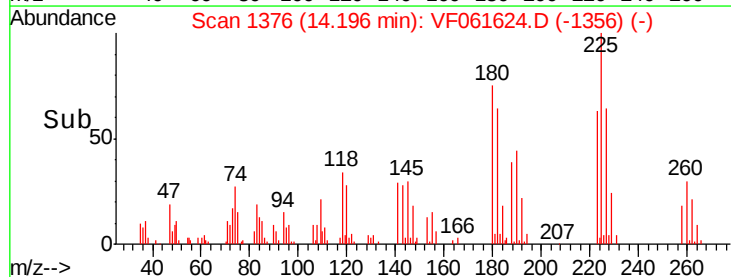
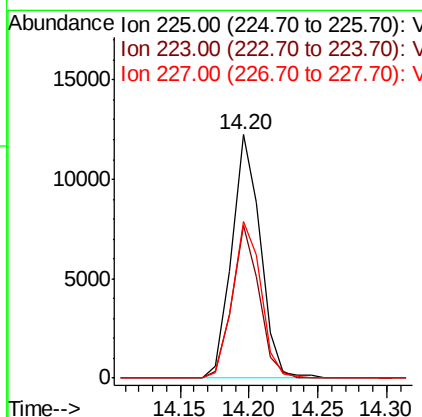
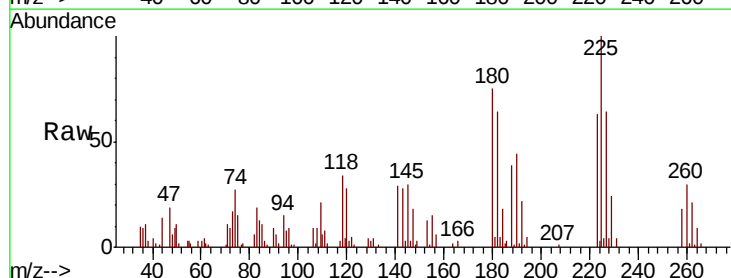
Manual Integrations
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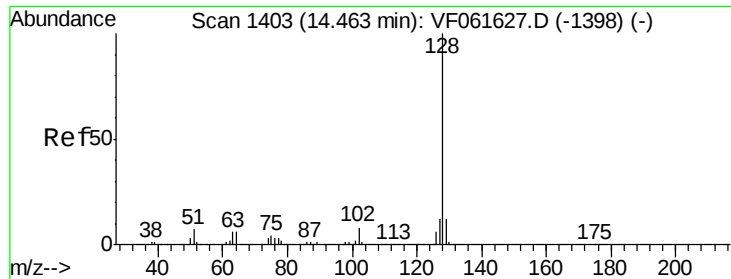
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#94
 Hexachlorobutadiene
 Concen: 5.723 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061624.D
 Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	17725		
223	62.7	30.9	92.7	
227	64.1	32.1	96.3	





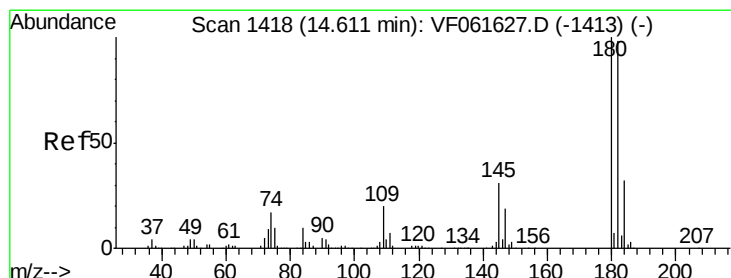
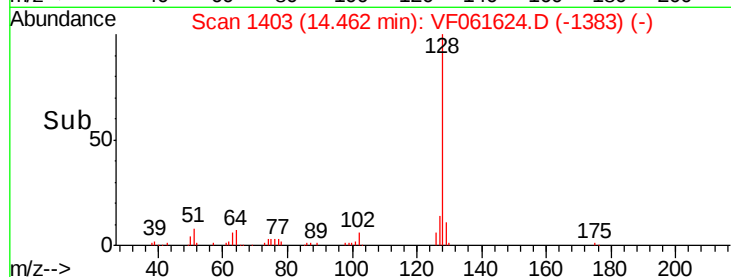
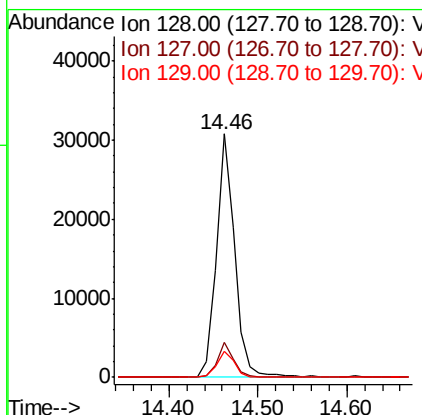
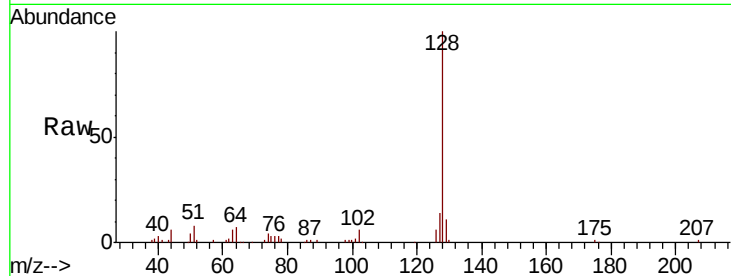
#95
Naphthalene
Concen: 4.658 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	9.8	14.6
129	10.7	9.4	14.2

Manual Integrations
APPROVED

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#96
1,2,3-Trichlorobenzene
Concen: 5.466 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. -0.00 min
Lab File: VF061624.D
Acq: 13 Feb 2019 16:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.1	49.0	147.2
145	32.6	15.4	46.1

