

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF111418\
 Data File : VF060723.D
 Acq On : 14 Nov 2018 14:09
 Operator : VA/AP
 Sample : VF1114SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/15/2018 1:30:41 PM

Quant Time: Nov 15 06:59:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	228034	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	374770	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.76	117	363819	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	198153	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	120209	46.22	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	92.44%	
35) Dibromofluoromethane	4.09	113	133294	47.32	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	94.64%	
50) Toluene-d8	7.53	98	371087	51.44	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	11.40	95	181945	54.98	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	109.96%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	86567	21.212	ug/l	97
3) Chloromethane	1.09	50	51116	20.196	ug/l #	88
4) Vinyl Chloride	1.14	62	49246	21.751	ug/l	94
5) Bromomethane	1.32	94	31695	22.038	ug/l	97
6) Chloroethane	1.36	64	16428	18.545	ug/l	95
7) Trichlorofluoromethane	1.48	101	99198m	19.813	ug/l	
8) Diethyl Ether	1.62	74	12738	19.857	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.80	101	52996	22.462	ug/l	91
10) Methyl Iodide	1.88	142	75559	19.960	ug/l	98
11) Tert butyl alcohol	2.56	59	13062	110.346	ug/l	100
12) 1,1-Dichloroethene	1.77	96	38768	20.839	ug/l	99
13) Acrolein	1.99	56	10881	100.532	ug/l	98
14) Allyl chloride	2.09	41	66826	20.504	ug/l	98
15) Acrylonitrile	2.93	53	28179	111.716	ug/l	92
16) Acetone	2.23	43	65058	117.022	ug/l #	93
17) Carbon Disulfide	1.82	76	116125	20.653	ug/l #	89
18) Methyl Acetate	2.33	43	17907	19.616	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	88724	19.880	ug/l	98
20) Methylene Chloride	2.18	84	46632m	23.735	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	40313	20.740	ug/l	91
22) Diisopropyl ether	2.79	45	131299	20.867	ug/l #	96
23) Vinyl Acetate	3.17	43	323467	109.168	ug/l	98
24) 1,1-Dichloroethane	2.86	63	81692	21.445	ug/l	100
25) 2-Butanone	4.31	43	97704	106.846	ug/l	99
26) 2,2-Dichloropropane	3.58	77	61626	20.557	ug/l	98
27) cis-1,2-Dichloroethene	3.46	96	67225	20.331	ug/l	96
28) Bromochloromethane	3.70	49	41486	20.955	ug/l	92
29) Tetrahydrofuran	4.05	42	42681	113.155	ug/l	97
30) Chloroform	3.84	83	124198	20.320	ug/l	99
31) Cyclohexane	3.69	56	93932	20.316	ug/l	93
32) 1,1,1-Trichloroethane	4.08	97	99632	20.700	ug/l	99
36) 1,1-Dichloropropene	4.26	75	88854	20.443	ug/l	99
37) Ethyl Acetate	4.09	43	33736	20.877	ug/l	92
38) Carbon Tetrachloride	3.97	117	91732m	21.751	ug/l	

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Manual Integrations
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Quant Time: Nov 15 06:59:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	107090	21.237	ug/l	95
40) Benzene	4.61	78	207043	21.369	ug/l	98
41) Methacrylonitrile	4.72	41	20594	21.430	ug/l	94
42) 1,2-Dichloroethane	4.92	62	66464	19.851	ug/l	98
43) Isopropyl Acetate	6.94	43	46395	21.655	ug/l #	98
44) Trichloroethene	5.48	130	63934	20.915	ug/l	84
45) 1,2-Dichloropropane	6.22	63	52198	20.704	ug/l	99
46) Dibromomethane	6.07	93	36283	21.801	ug/l	87
47) Bromodichloromethane	6.37	83	86789	20.421	ug/l	98
48) Methyl methacrylate	6.70	41	30684	21.640	ug/l	99
49) 1,4-Dioxane	6.68	88	6292	474.469	ug/l	89
51) 4-Methyl-2-Pentanone	8.24	43	163102	105.257	ug/l	99
52) Toluene	7.61	92	132996	20.484	ug/l	94
53) t-1,3-Dichloropropene	8.26	75	70027	20.572	ug/l	96
54) cis-1,3-Dichloropropene	7.29	75	84205	19.044	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	38808	20.920	ug/l	98
56) Ethyl methacrylate	8.61	69	47363	22.481	ug/l	95
57) 1,3-Dichloropropane	8.83	76	68358	21.262	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.61	63	20653	107.313	ug/l	100
59) 2-Hexanone	9.48	43	129403	118.829	ug/l	97
60) Dibromochloromethane	8.70	129	54928	20.776	ug/l	87
61) 1,2-Dibromoethane	8.97	107	41451	21.246	ug/l	98
64) Tetrachloroethene	8.13	164	54193	18.810	ug/l	94
65) Chlorobenzene	9.78	112	147309	20.065	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.91	131	66070	20.633	ug/l	96
67) Ethyl Benzene	9.88	91	285878	20.658	ug/l	99
68) m/p-Xylenes	10.12	106	202149	40.875	ug/l	90
69) o-Xylene	10.70	106	113126	20.346	ug/l	97
70) Styrene	10.78	104	148895	19.732	ug/l	98
71) Bromoform	10.76	173	27382	19.016	ug/l #	93
73) Isopropylbenzene	11.11	105	364024	22.823	ug/l	96
74) N-amyl acetate	11.36	43	86794	23.904	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	54743	20.760	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	37504	19.150	ug/l	97
77) Bromobenzene	11.49	156	68476	20.625	ug/l	94
78) n-propylbenzene	11.59	91	388314	20.875	ug/l	99
79) 2-Chlorotoluene	11.70	91	223406	20.663	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	286173	22.599	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	19029m	19.777	ug/l	
82) 4-Chlorotoluene	11.88	91	235103	21.226	ug/l	95
83) tert-Butylbenzene	12.12	119	275411	20.484	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	270378	20.646	ug/l	94
85) sec-Butylbenzene	12.30	105	389630	21.363	ug/l	98
86) p-Isopropyltoluene	12.44	119	319407	20.969	ug/l	94
87) 1,3-Dichlorobenzene	12.46	146	137350	20.788	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	129686	20.423	ug/l	97
89) n-Butylbenzene	12.83	91	345637	22.234	ug/l	94
90) Hexachloroethane	12.91	117	77316	20.752	ug/l	96
91) 1,2-Dichlorobenzene	12.93	146	134031	21.545	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	9296	18.756	ug/l	96

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ClientSampleId :
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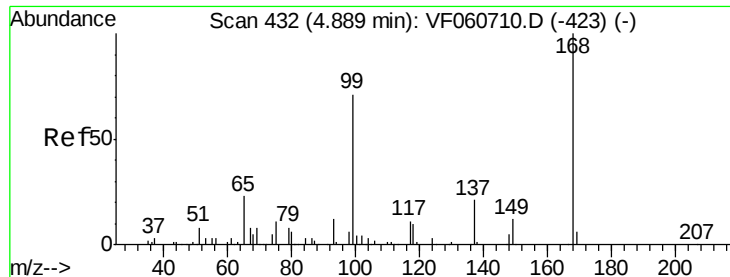
Manual Integrations
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11/15/2018 1:30:41 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	93152	20.833	ug/l	97
94) Hexachlorobutadiene	14.18	225	59800	20.466	ug/l	96
95) Naphthalene	14.45	128	165922	20.337	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	85345	20.656	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion:168 Resp: 228034

Ion Ratio Lower Upper

168 100

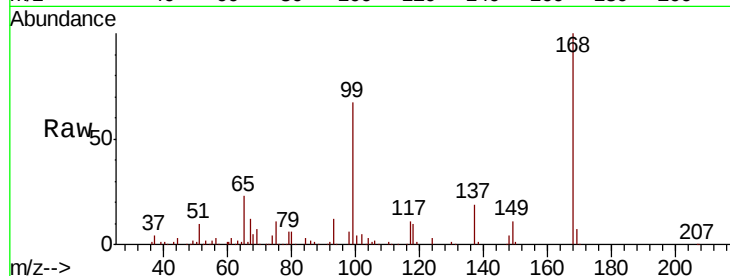
99 67.1 57.2 85.8

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

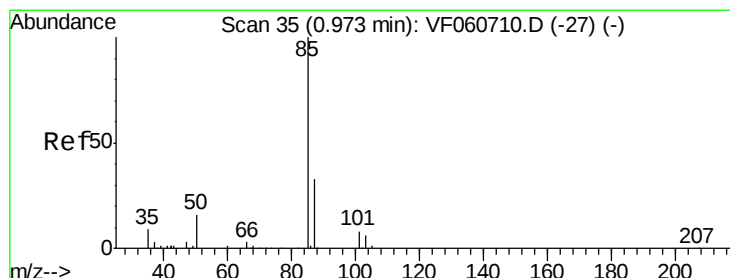
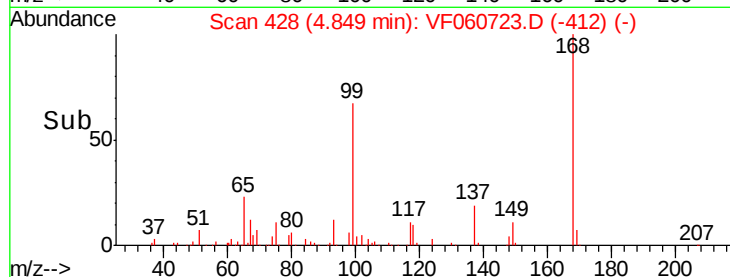
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 21.212 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060723.D

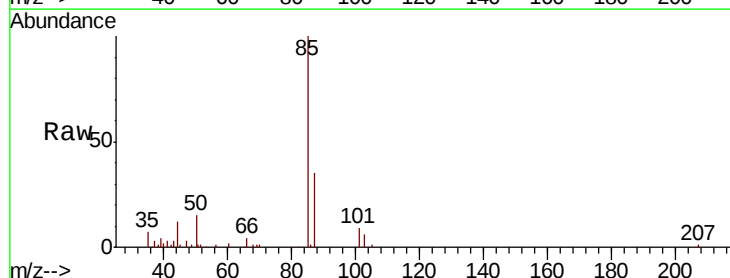
Acq: 14 Nov 2018 14:09

Tgt Ion: 85 Resp: 86567

Ion Ratio Lower Upper

85 100

87 34.6 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

30000

25000

20000

15000

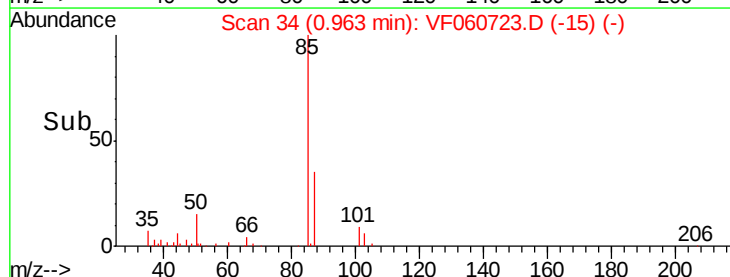
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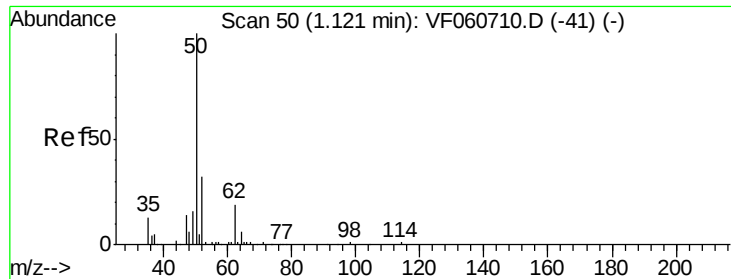
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 20.196 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBSD01

Tot Ion: 50 Resp: 51116

Ion Ratio Lower Upper

50 100

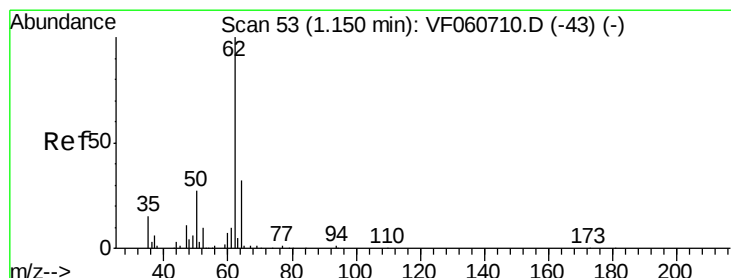
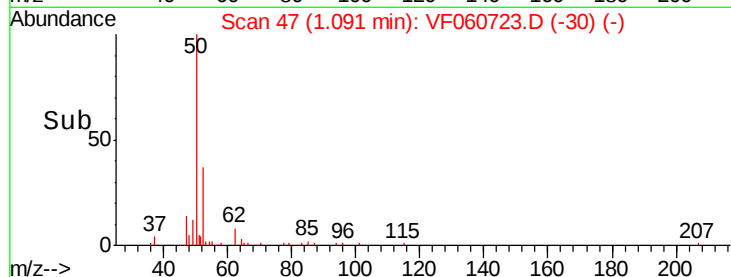
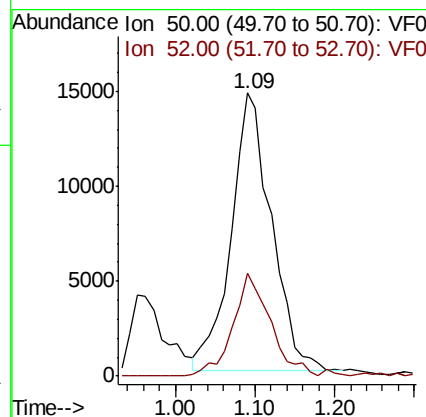
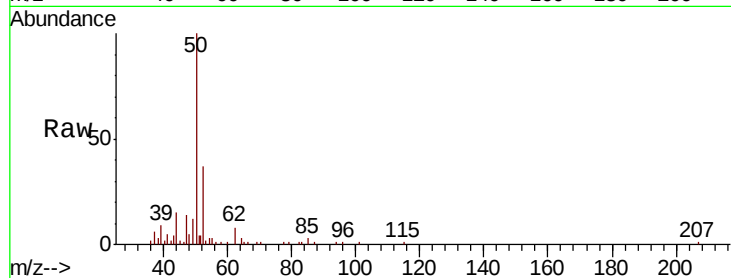
52 36.6 24.2 36.2#

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.751 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060723.D

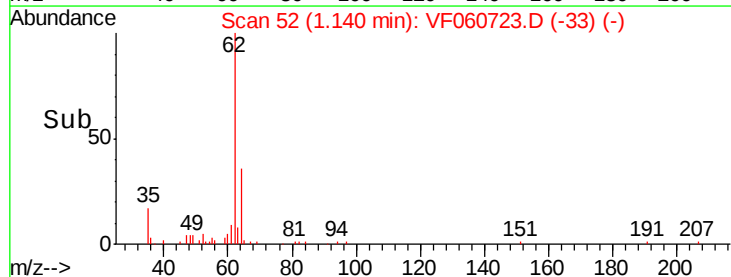
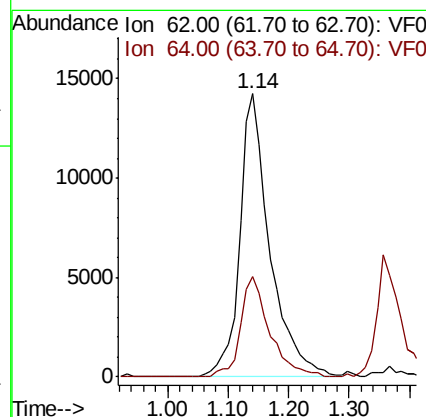
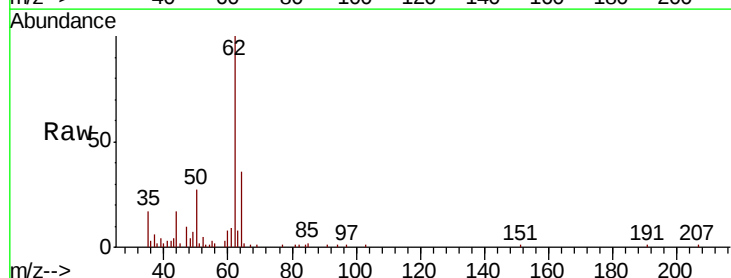
Acq: 14 Nov 2018 14:09

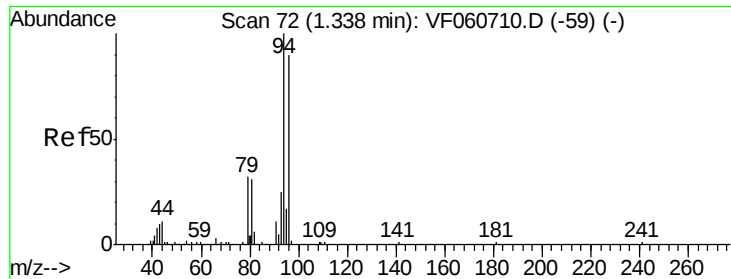
Tgt Ion: 62 Resp: 49246

Ion Ratio Lower Upper

62 100

64 35.5 25.8 38.8





#5

Bromomethane

Concen: 22.038 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 94 Resp: 31695

Ion Ratio Lower Upper

94 100

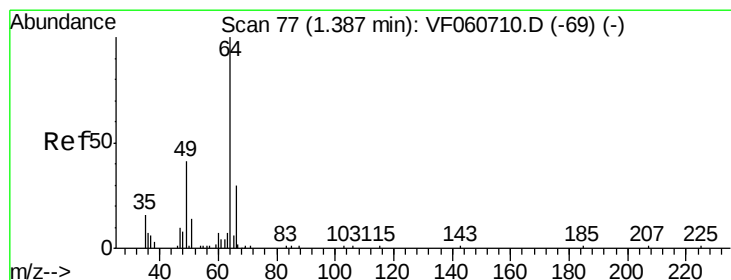
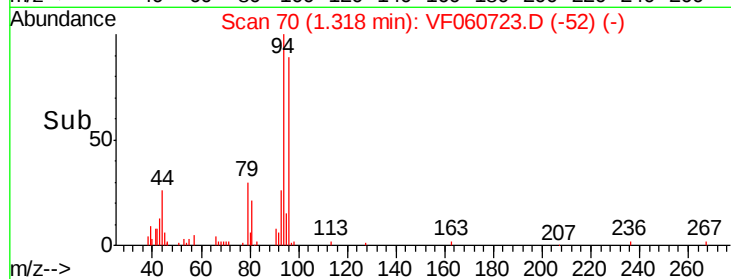
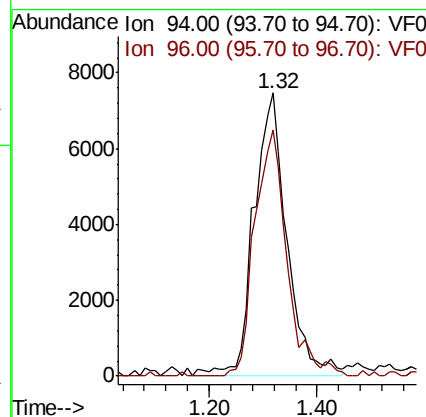
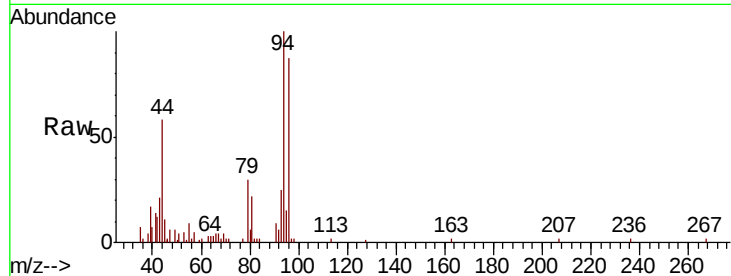
96 87.0 71.9 107.9

Manual Integrations

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#6

Chloroethane

Concen: 18.545 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.03 min

Lab File: VF060723.D

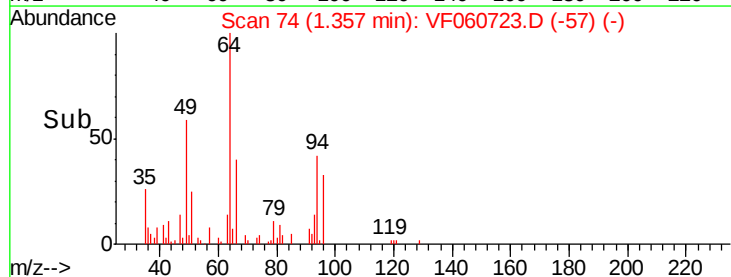
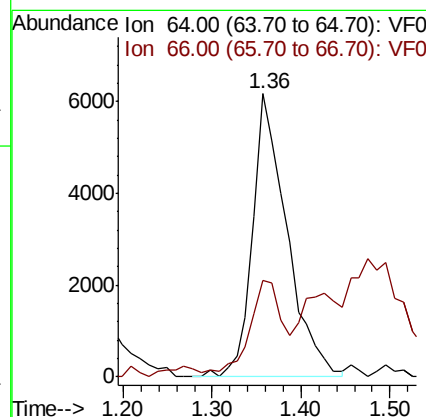
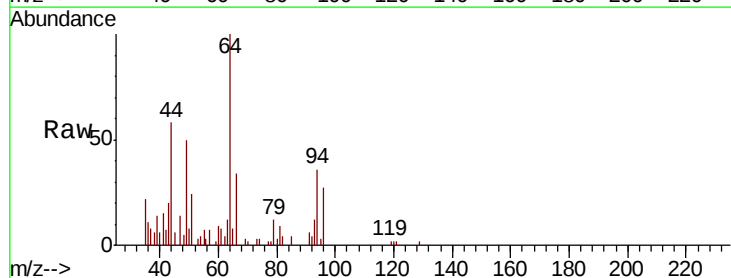
Acq: 14 Nov 2018 14:09

Tgt Ion: 64 Resp: 16428

Ion Ratio Lower Upper

64 100

66 34.0 24.8 37.2





#7

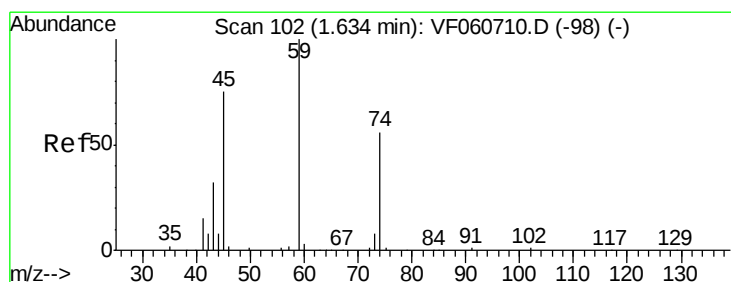
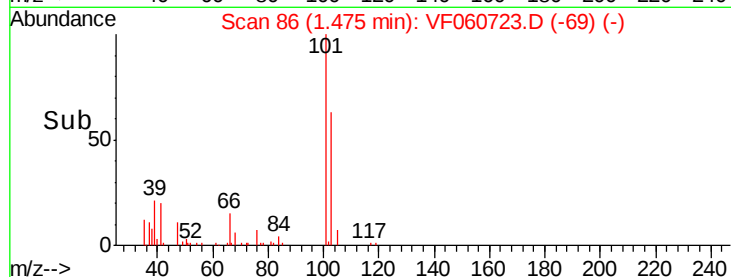
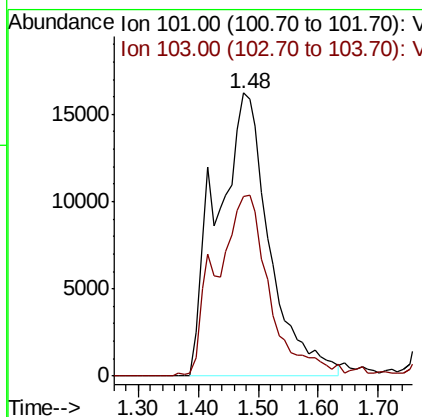
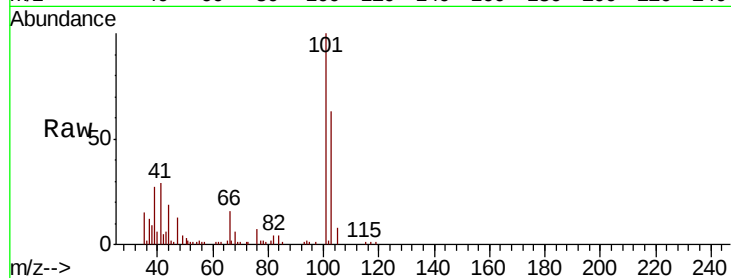
Trichlorofluoromethane
Concen: 19.813 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.1	79.7

Manual Integrations
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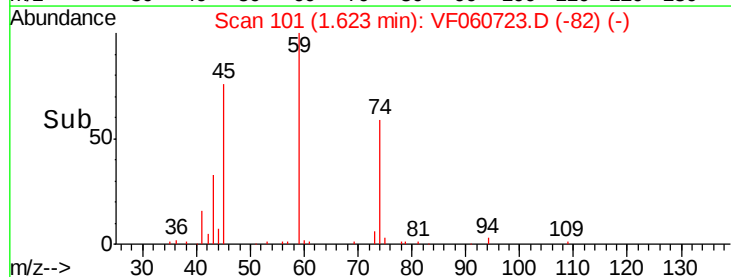
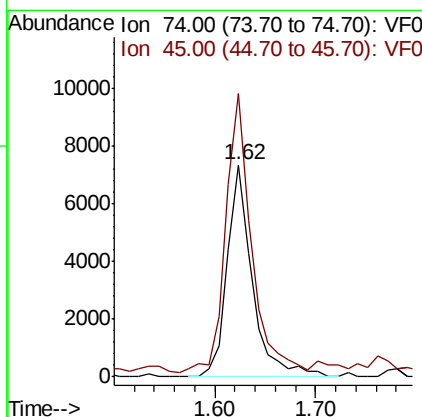
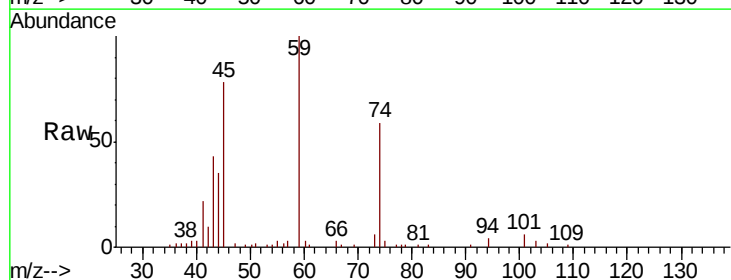
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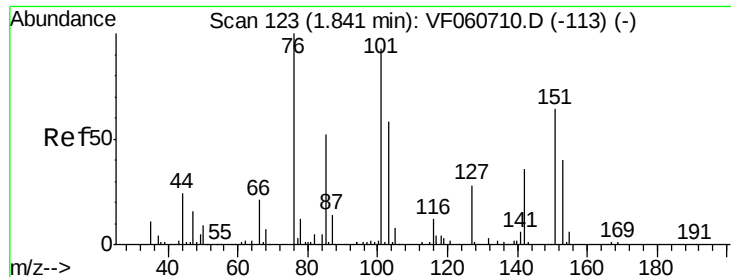


#8

Diethyl Ether
Concen: 19.857 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	133.4	67.7	203.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.462 ug/l

RT: 1.80 min Scan# 119

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

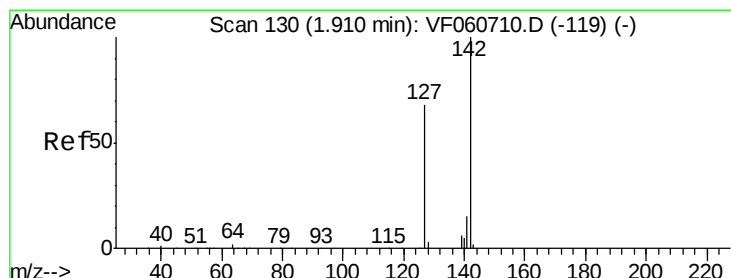
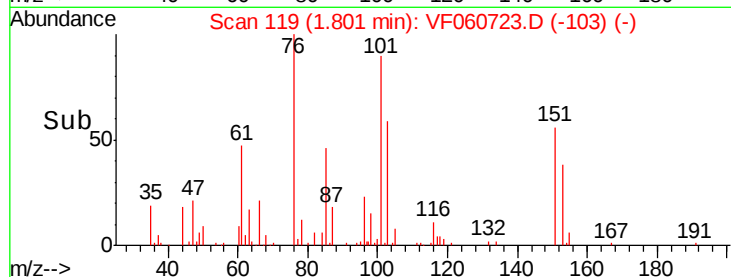
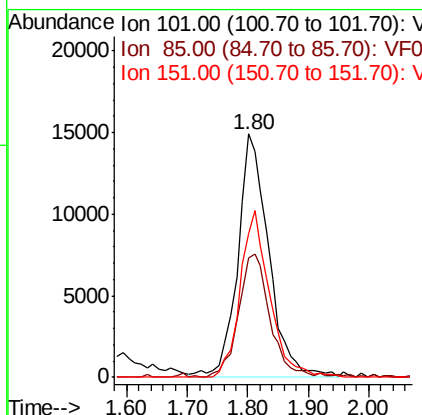
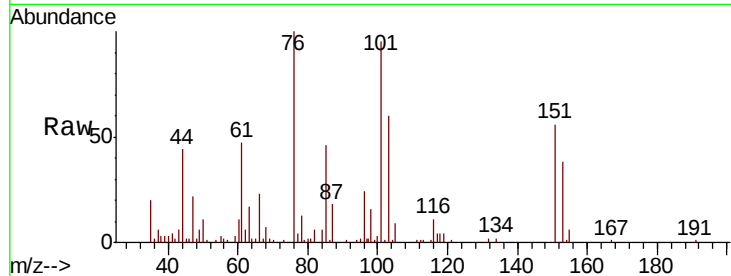
ClientSampleId :

VF1114SBS01

Tot Ion:	101	Resp:	52996
Ion Ratio	Lower	Upper	
101	100		
85	48.8	43.6	65.4
151	58.9	53.1	79.7

Manual Integrations
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11/15/2018 1:30:41 PM



#10

Methyl Iodide

Concen: 19.960 ug/l

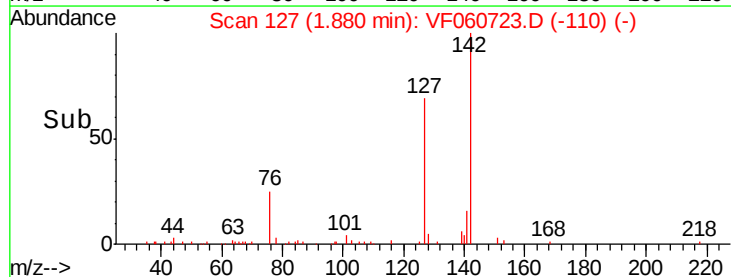
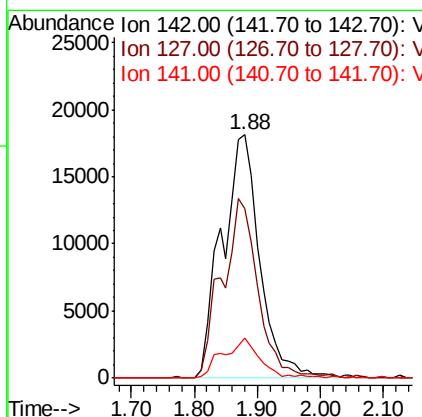
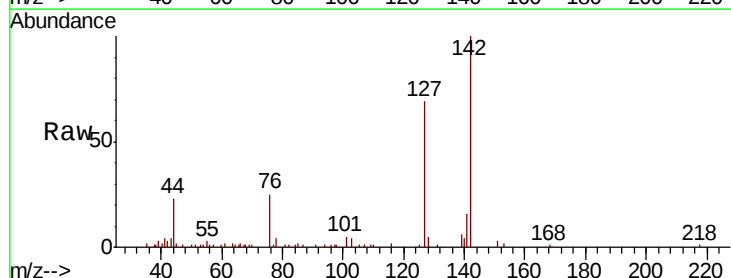
RT: 1.88 min Scan# 127

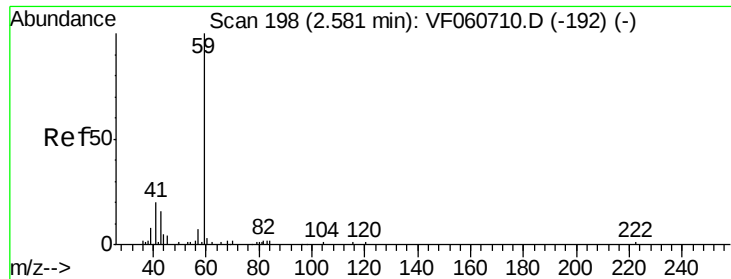
Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	142	Resp:	75559
Ion Ratio	Lower	Upper	
142	100		
127	69.4	54.0	81.0
141	16.5	12.3	18.5





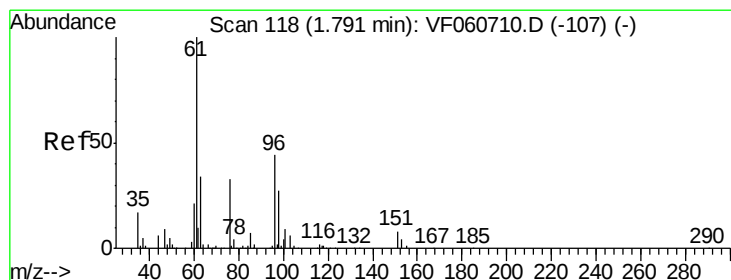
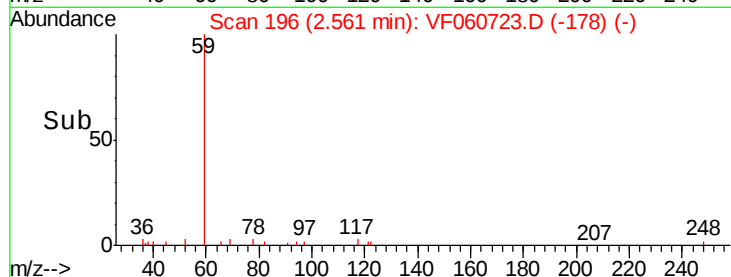
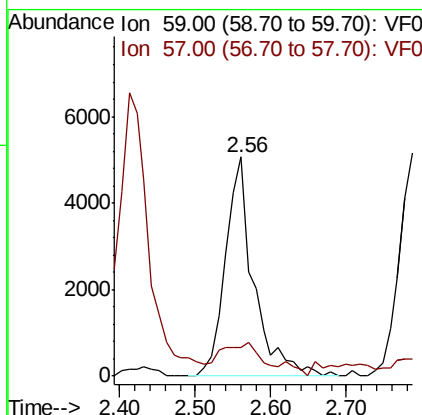
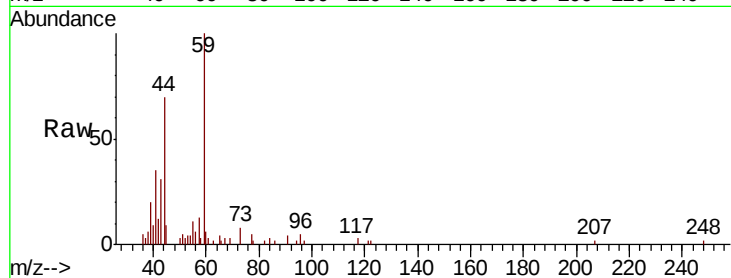
#11
Tert butyl alcohol
Concen: 110.346 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion: 59 Resp: 13062
Ion Ratio Lower Upper
59 100
57 13.3 10.5 15.7

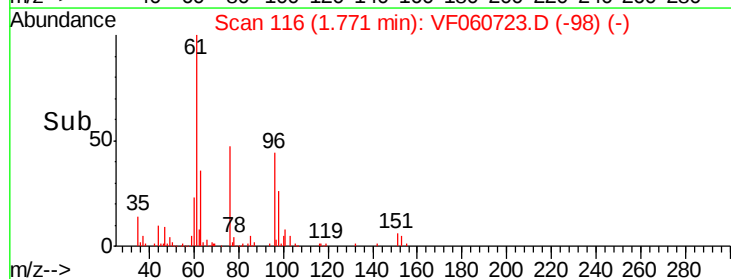
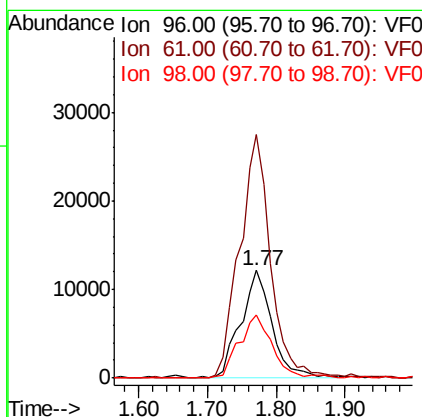
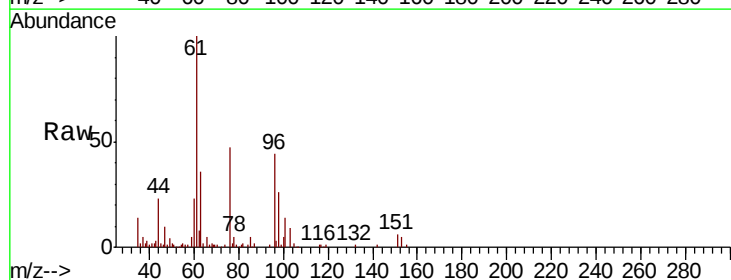
Manual Integrations
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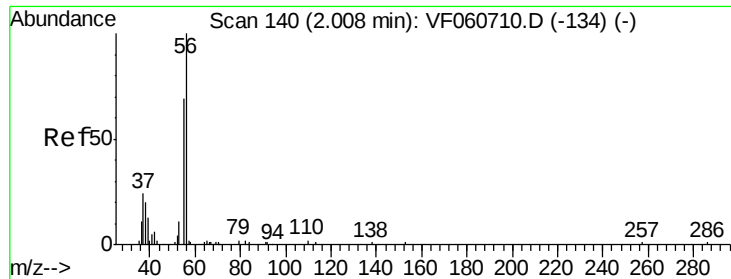
MMDadoda
11/15/2018 1:30:41 PM



#12
1,1-Dichloroethene
Concen: 20.839 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion: 96 Resp: 38768
Ion Ratio Lower Upper
96 100
61 226.4 182.2 273.2
98 58.5 49.2 73.8





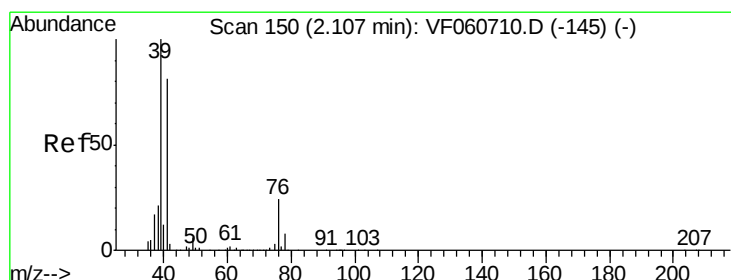
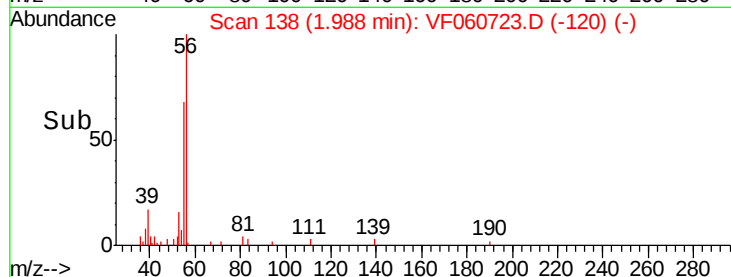
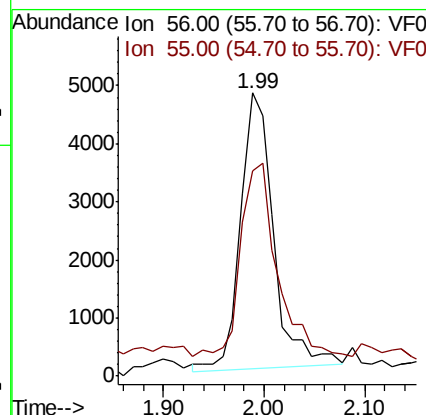
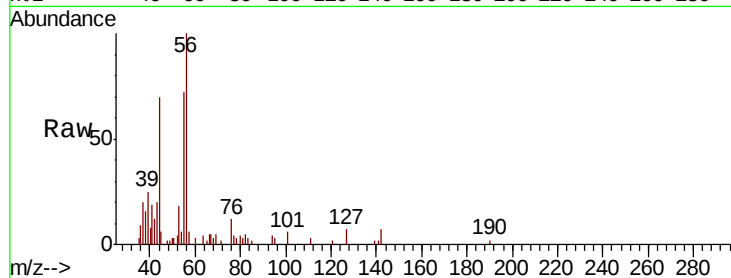
#13
Acrolein
Concen: 100.532 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion: 56 Resp: 10881
Ion Ratio Lower Upper
56 100
55 72.4 56.6 85.0

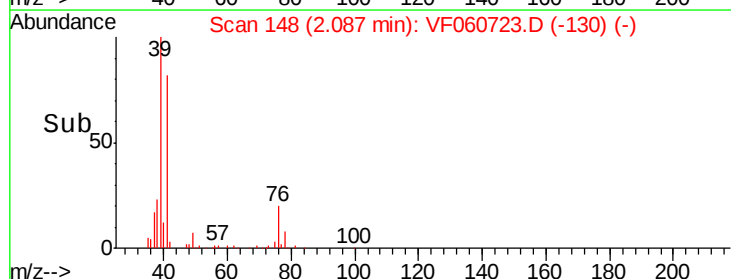
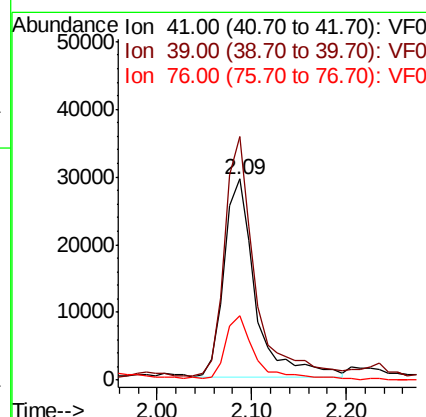
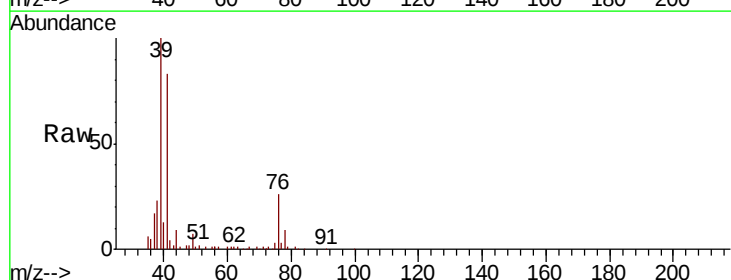
Manual Integrations
APPROVED

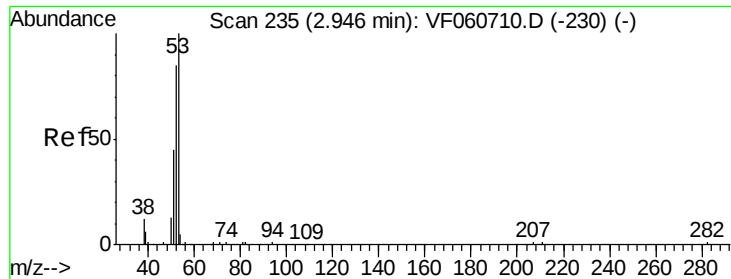
MMDadoda
11/15/2018 1:30:41 PM



#14
Allyl chloride
Concen: 20.504 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion: 41 Resp: 66826
Ion Ratio Lower Upper
41 100
39 121.2 98.5 147.7
76 31.9 24.5 36.7





#15

Acrylonitrile

Concen: 111.716 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

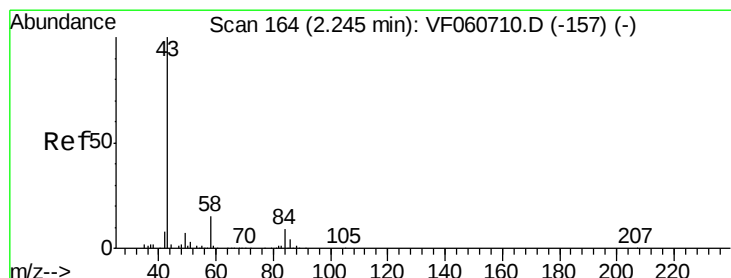
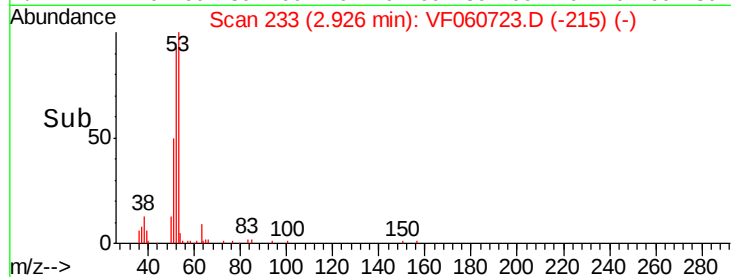
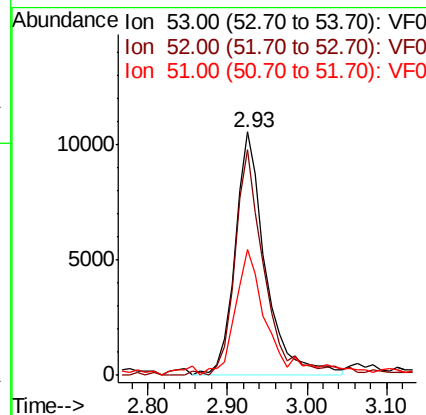
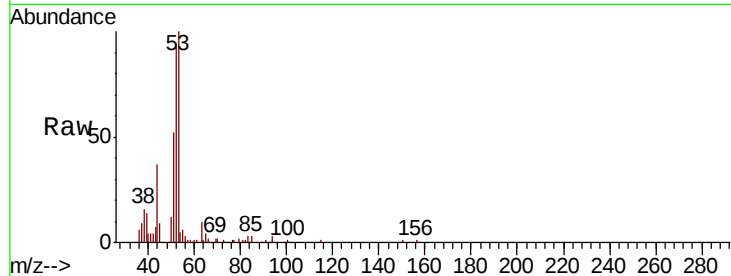
ClientSampleId :

VF1114SBS01

Tot Ion:	53	Resp:	28179
Ion	Ratio	Lower	Upper
53	100		
52	92.5	68.8	103.2
51	51.9	36.7	55.1

Manual Integrations
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#16

Acetone

Concen: 117.022 ug/l

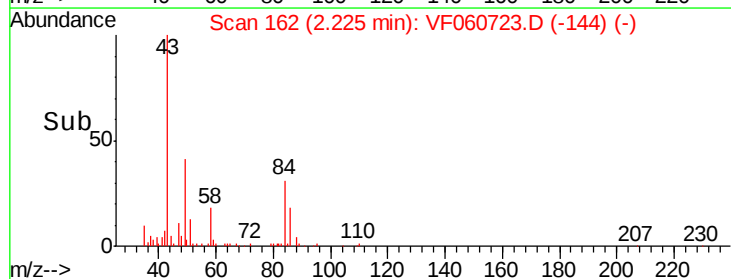
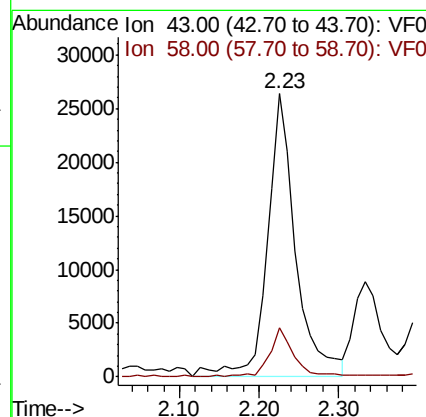
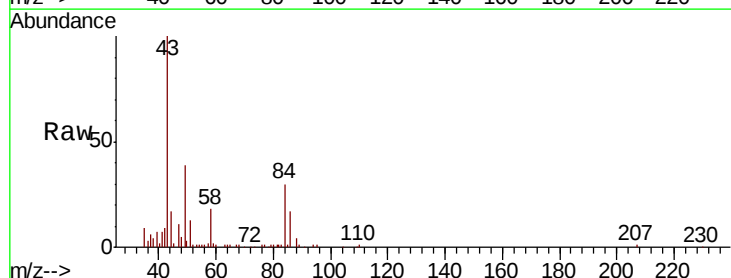
RT: 2.23 min Scan# 162

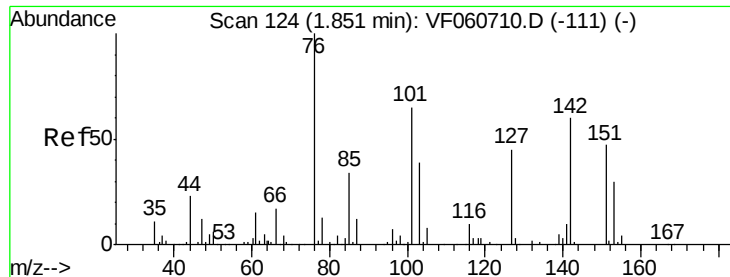
Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	43	Resp:	65058
Ion	Ratio	Lower	Upper
43	100		
58	17.5	11.6	17.4#





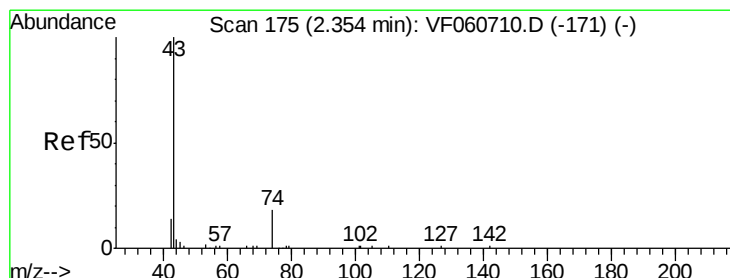
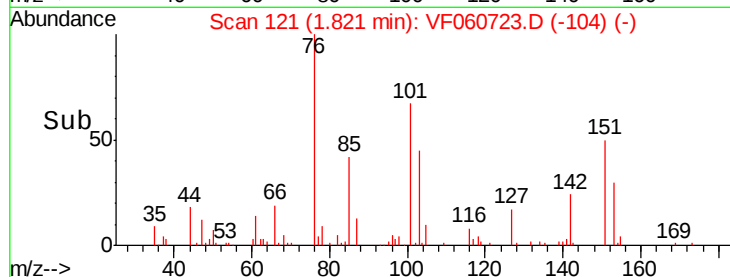
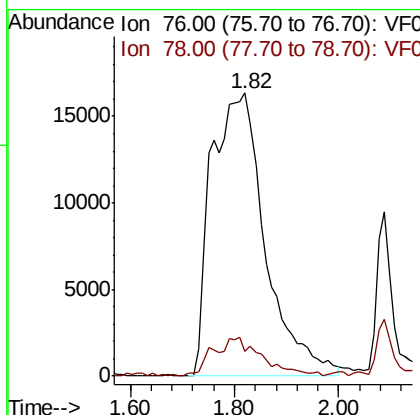
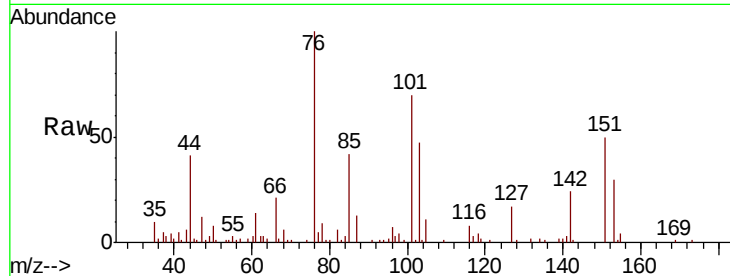
#17
Carbon Disulfide
Concen: 20.653 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion: 76 Resp: 116125
Ion Ratio Lower Upper
76 100
78 8.8 10.5 15.7#

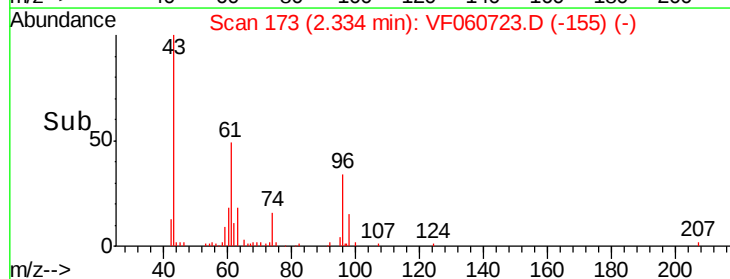
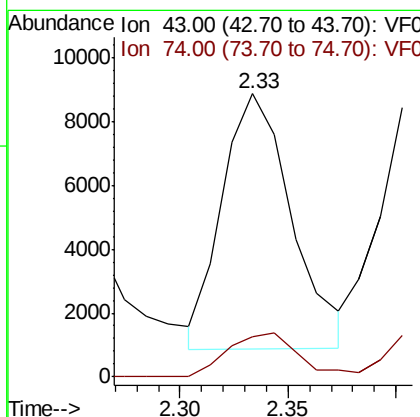
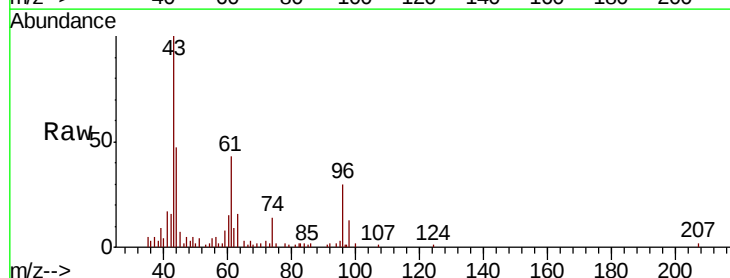
Manual Integrations
APPROVED

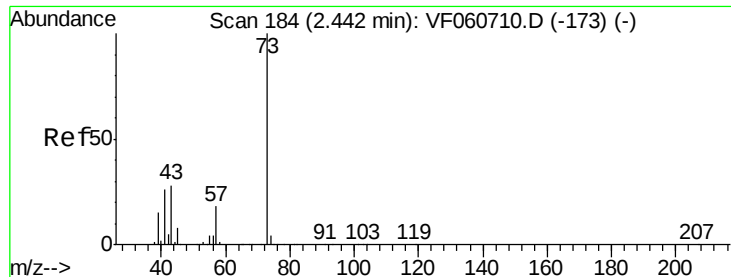
MMDadoda
11/15/2018 1:30:41 PM



#18
Methyl Acetate
Concen: 19.616 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion: 43 Resp: 17907
Ion Ratio Lower Upper
43 100
74 14.0 11.8 17.8





#19

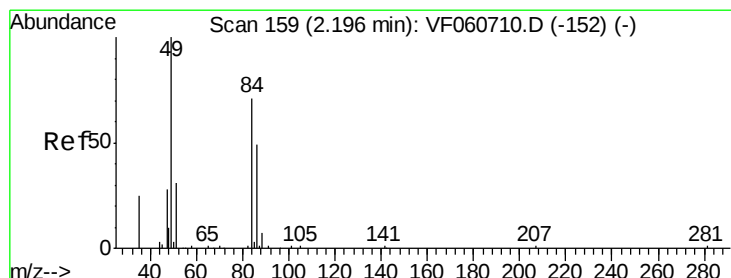
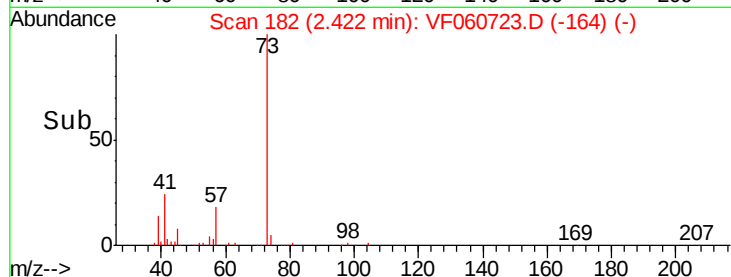
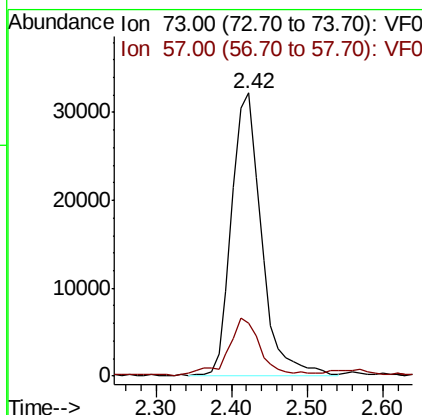
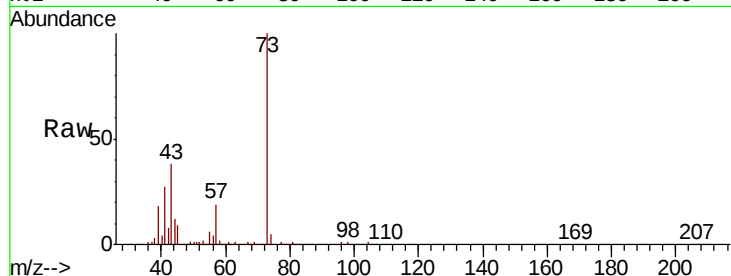
Methyl tert-butyl Ether
 Concen: 19.880 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	73	Resp	88724
Ion Ratio	Lower	Upper	
73	100		
57	18.9	14.3	21.5

Manual Integrations
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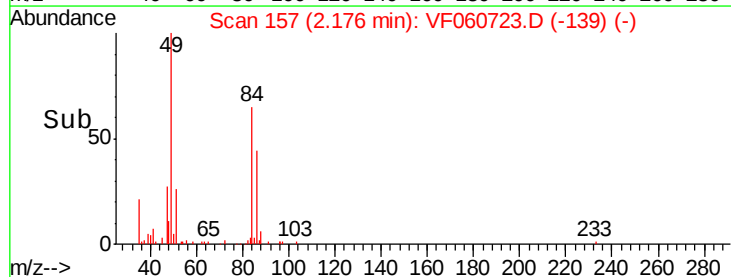
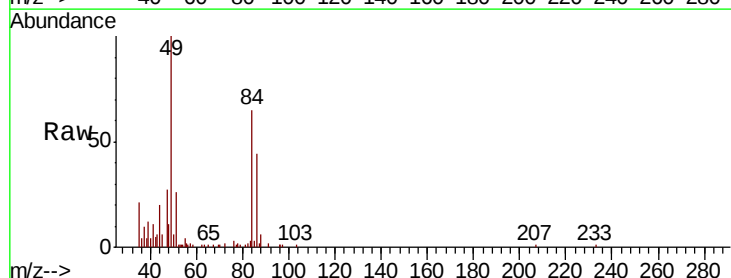
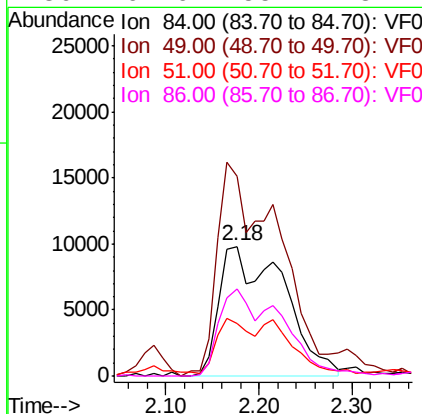
MMDadoda
 11/15/2018 1:30:41 PM

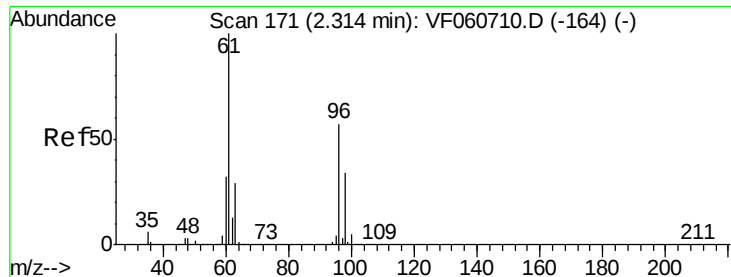


#20

Methylene Chloride
 Concen: 23.735 ug/l m
 RT: 2.18 min Scan# 157
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	84	Resp	46632
Ion Ratio	Lower	Upper	
84	100		
49	153.5	120.2	180.4
51	40.3	37.2	55.8
86	67.6	55.1	82.7





#21

trans-1,2-Dichloroethene

Concen: 20.740 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

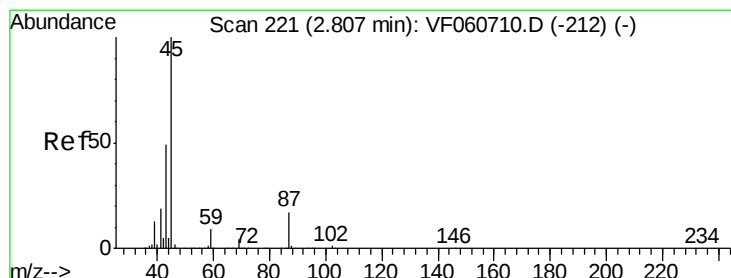
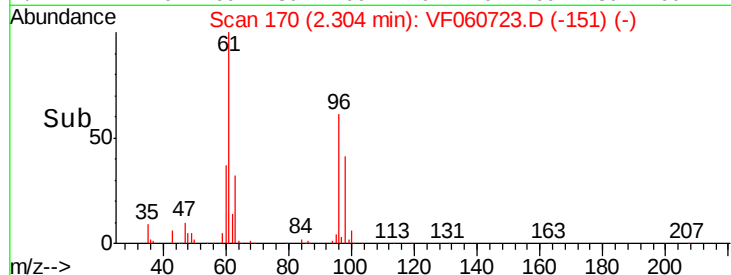
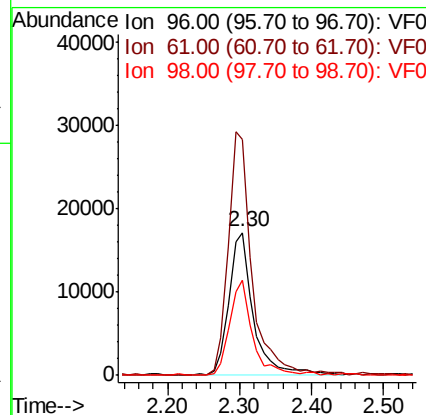
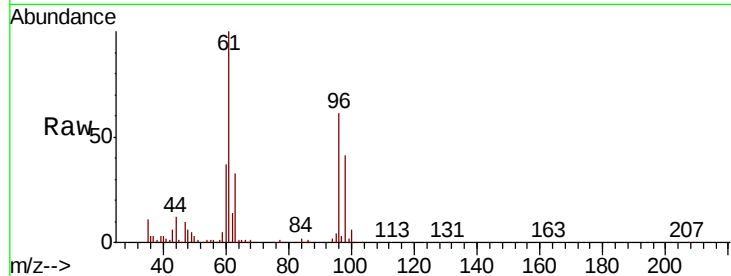
ClientSampleId :

VF1114SBS01

Tot Ion:	96	Resp:	40313
Ion	Ratio	Lower	Upper
96	100		
61	164.6	141.6	212.4
98	66.9	47.4	71.0

Manual Integrations
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11/15/2018 1:30:41 PM



#22

Diisopropyl ether

Concen: 20.867 ug/l

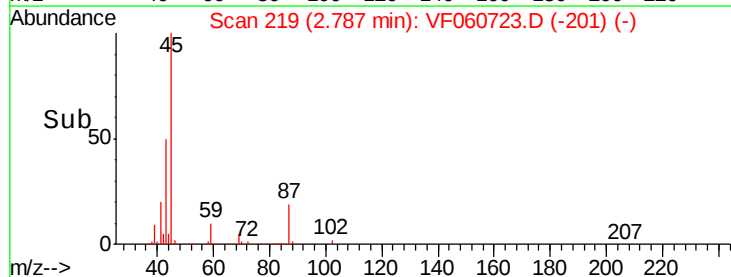
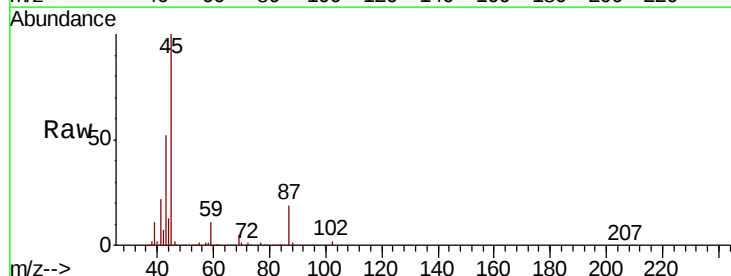
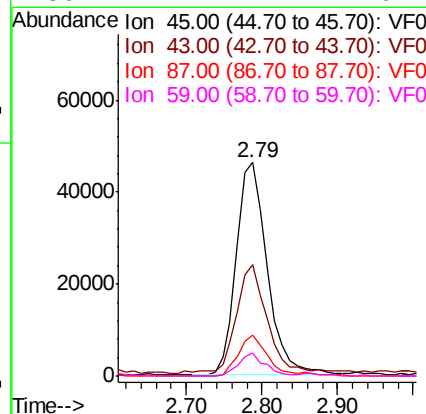
RT: 2.79 min Scan# 219

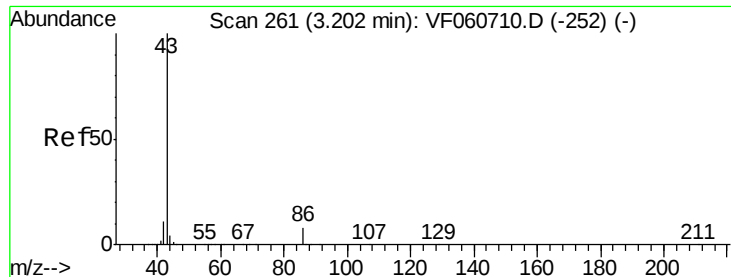
Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	45	Resp:	131299
Ion	Ratio	Lower	Upper
45	100		
43	52.2	39.9	59.9
87	19.1	13.9	20.9
59	11.1	7.1	10.7#





#23

Vinyl Acetate

Concen: 109.168 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 43 Resp: 323467

Ion Ratio Lower Upper

43 100

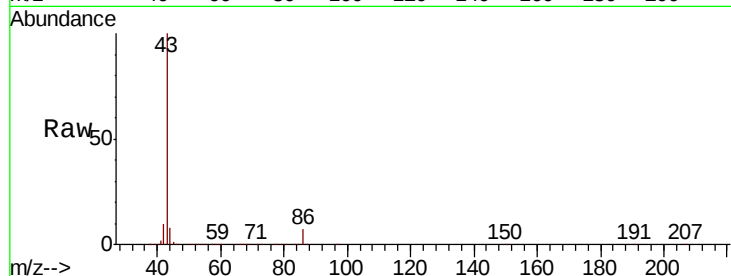
86 7.4 6.4 9.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.17

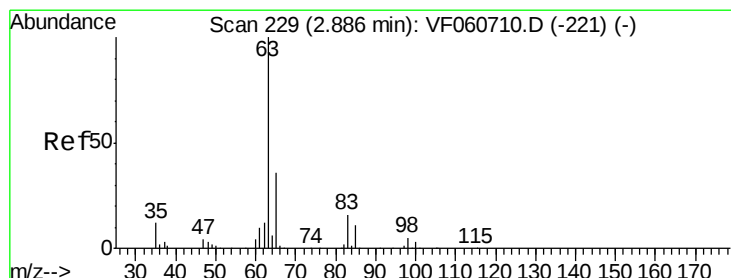
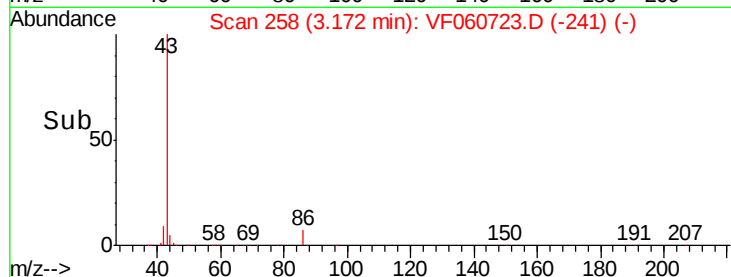
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.445 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

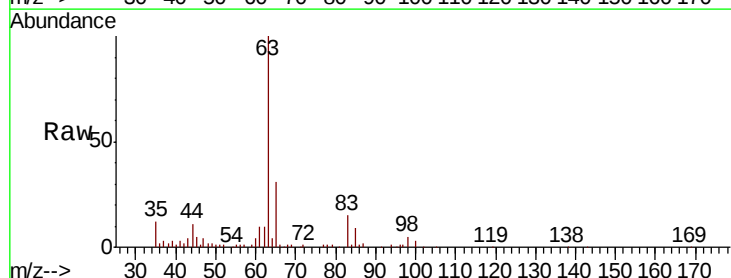
Tgt Ion: 63 Resp: 81692

Ion Ratio Lower Upper

63 100

98 4.8 2.4 7.1

100 2.6 1.4 4.2



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

40000

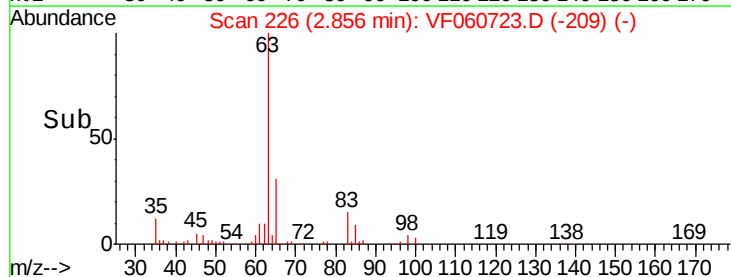
30000

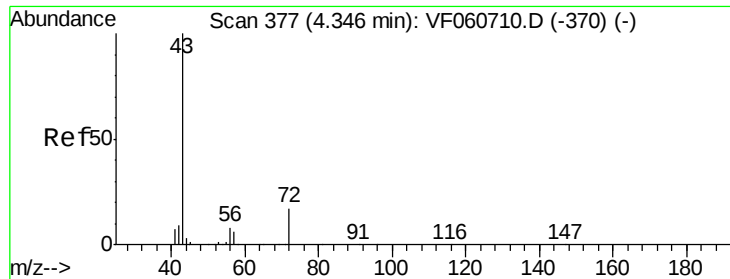
20000

10000

0

Time-->





#25

2-Butanone

Concen: 106.846 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 43 Resp: 97704

Ion Ratio Lower Upper

43 100

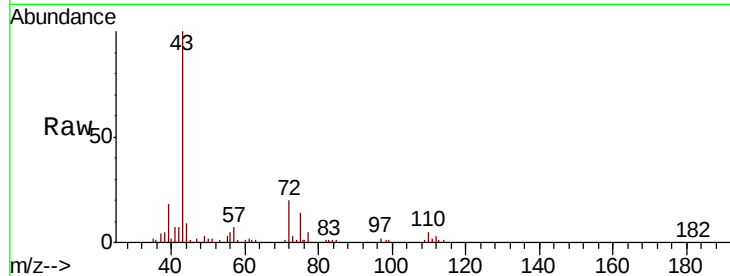
72 20.3 16.1 24.1

Manual Integrations

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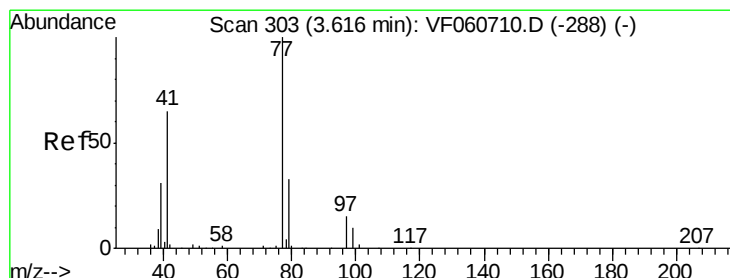
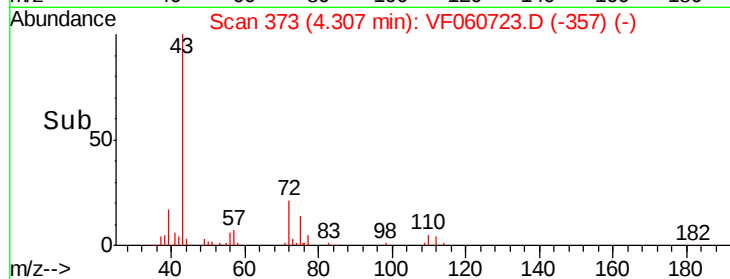
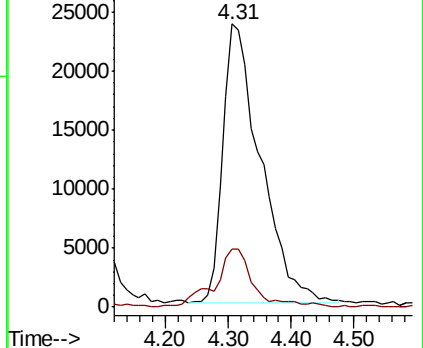
MMDadoda

11/15/2018 1:30:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 20.557 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF060723.D

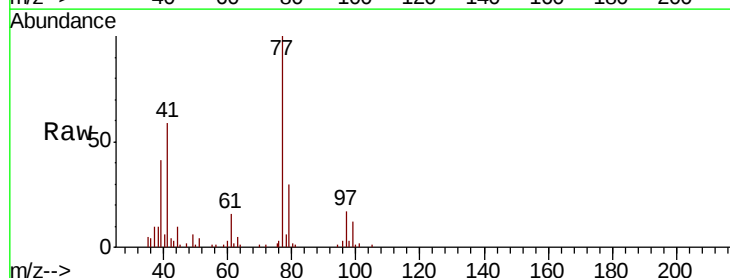
Acq: 14 Nov 2018 14:09

Tgt Ion: 77 Resp: 61626

Ion Ratio Lower Upper

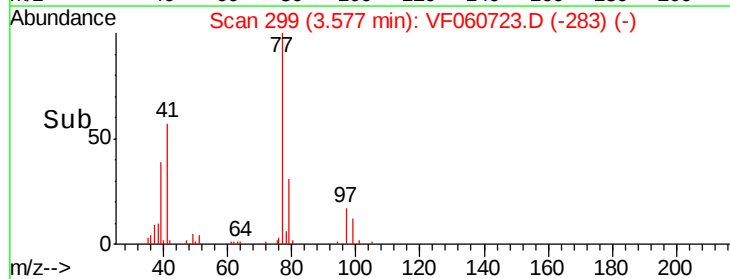
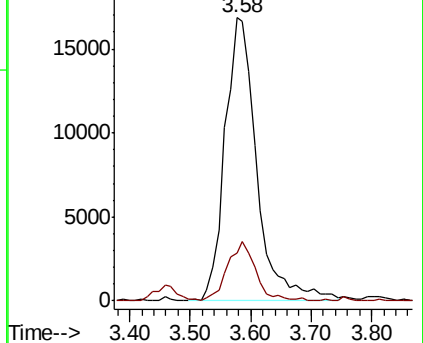
77 100

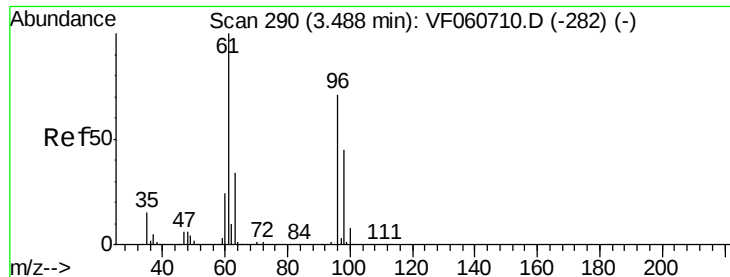
97 16.9 8.8 26.5



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

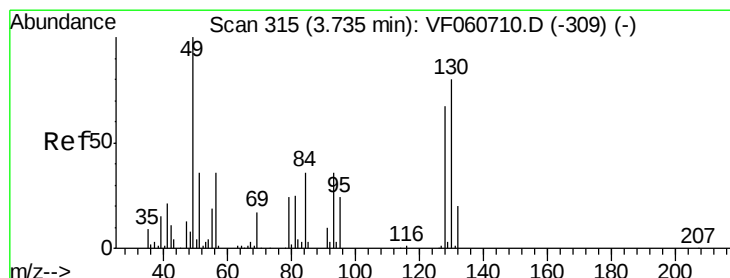
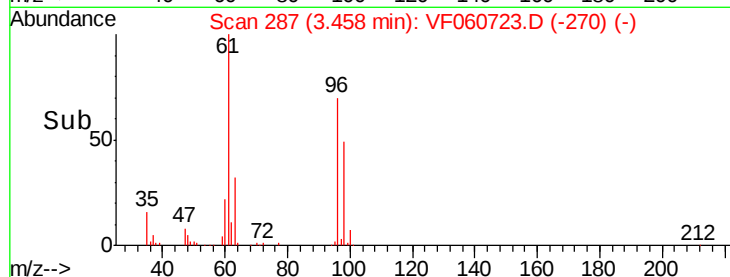
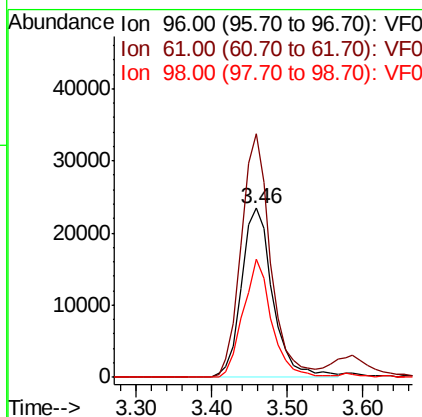
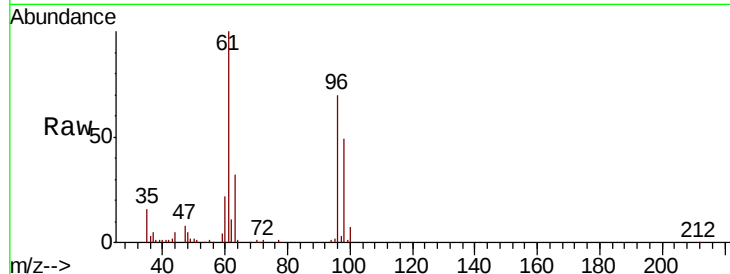
cis-1,2-Dichloroethene
Concen: 20.331 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	67225		
61	143.9		0.0	280.6
98	69.9		0.0	127.6

Manual Integrations
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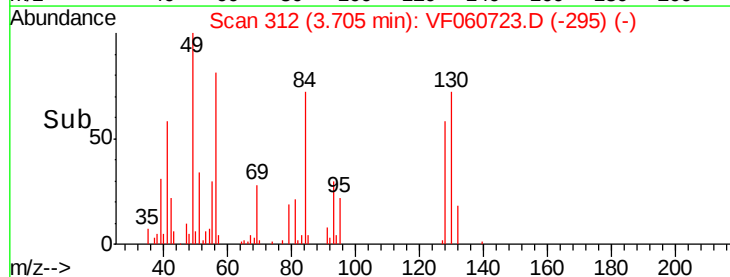
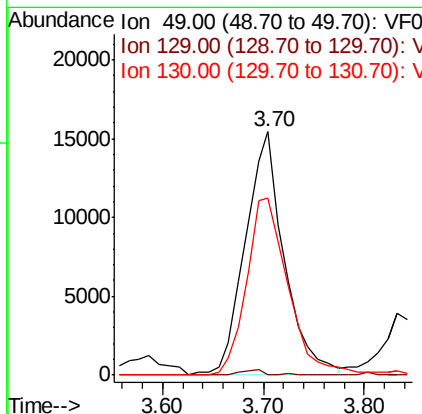
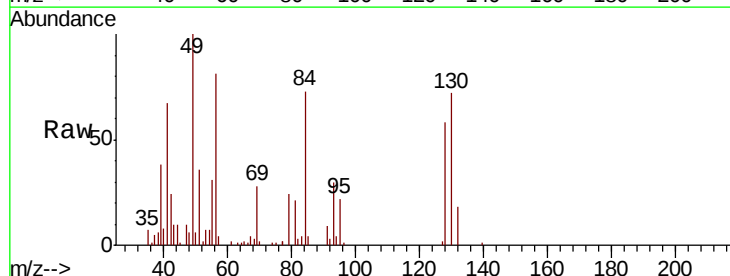
MMDadoda
11/15/2018 1:30:41 PM

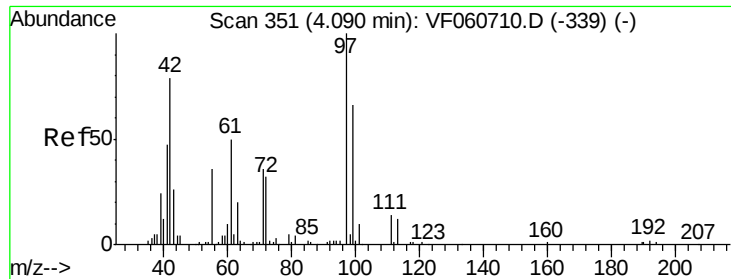


#28

Bromochloromethane
Concen: 20.955 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41486		
129	0.0		0.0	5.2
130	72.5		63.9	95.9





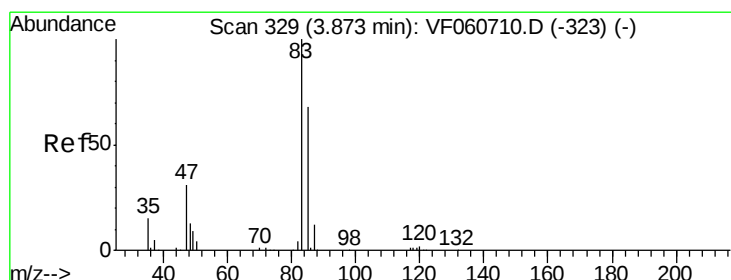
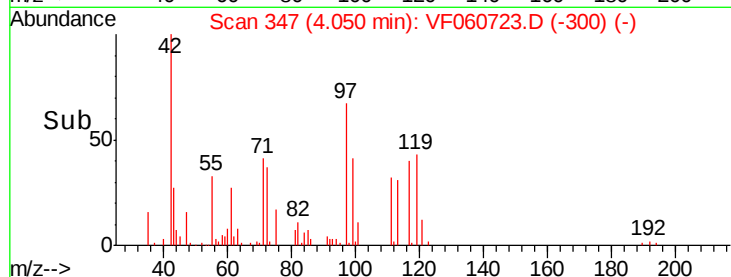
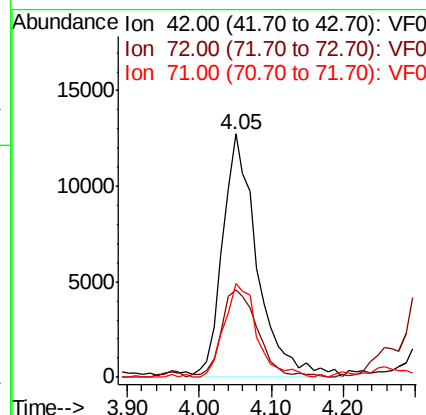
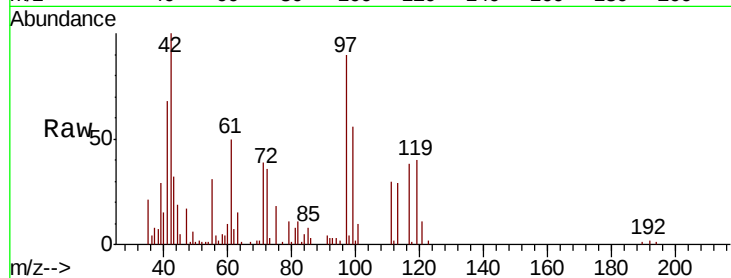
#29
Tetrahydrofuran
Concen: 113.155 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	30.3	45.5
71	36.4	32.2	48.2

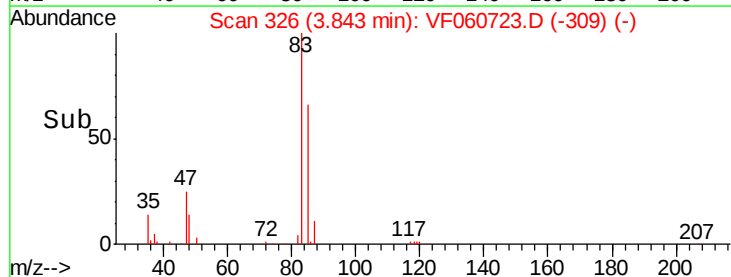
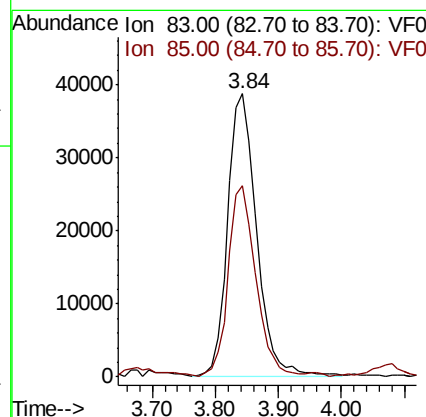
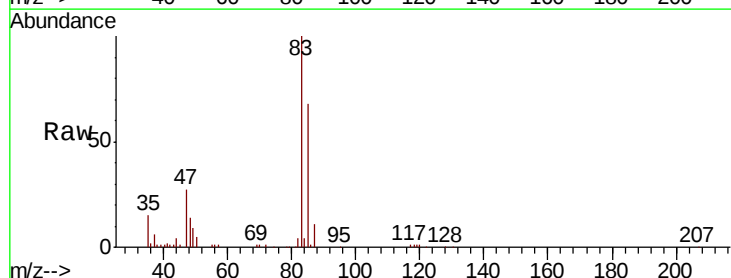
Manual Integrations
APPROVED

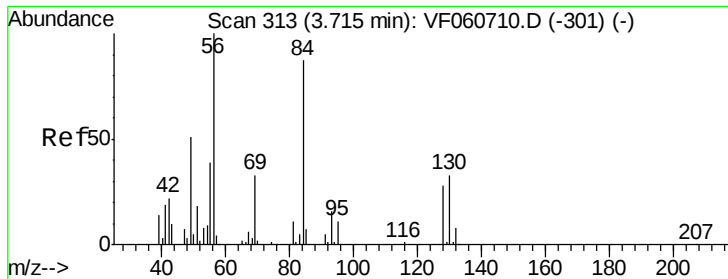
MMDadoda
11/15/2018 1:30:41 PM



#30
Chloroform
Concen: 20.320 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.7	54.6	82.0





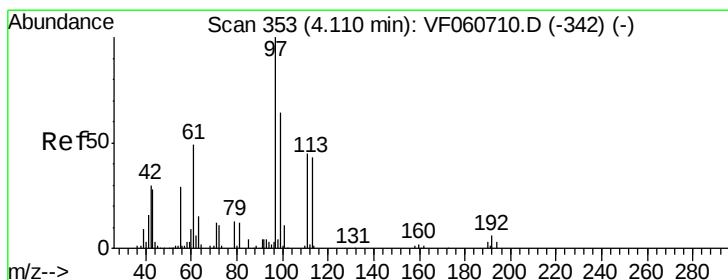
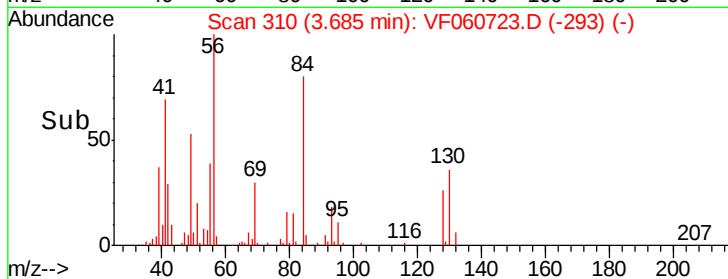
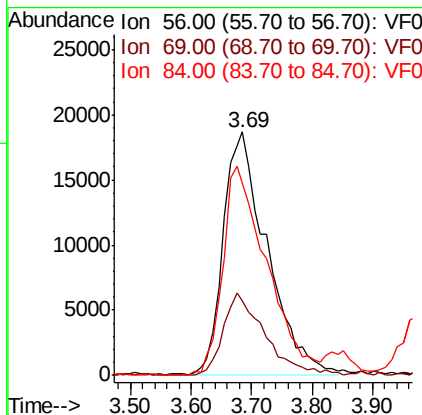
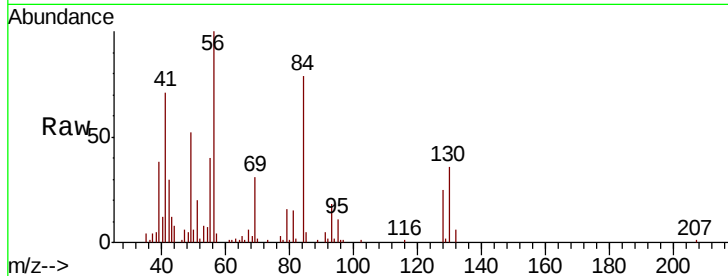
#31
Cyclohexane
Concen: 20.316 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		93932		
69	30.8	26.0	39.0		
84	79.3	69.4	104.2		

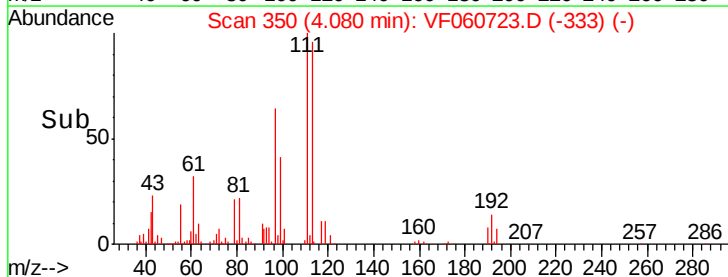
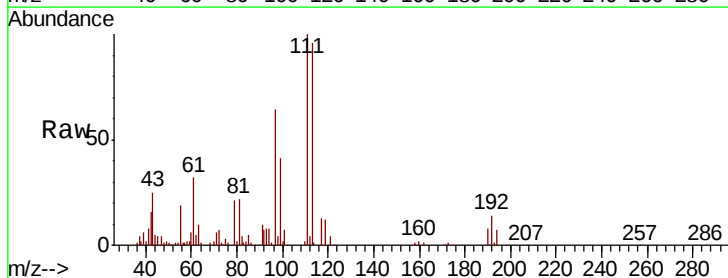
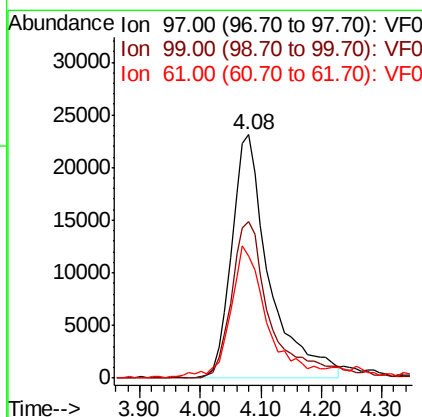
Manual Integrations
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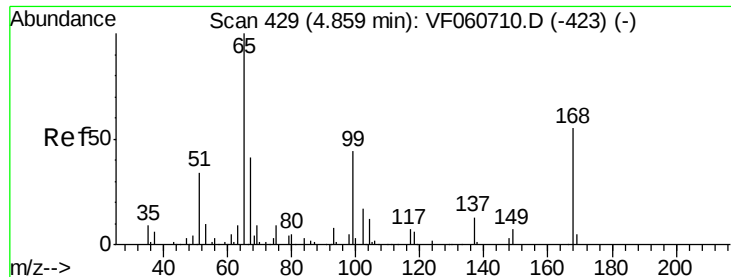
MMDadoda
11/15/2018 1:30:41 PM



#32
1,1,1-Trichloroethane
Concen: 20.700 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		99632		
99	64.5	51.1	76.7		
61	50.4	40.1	60.1		





#33

1,2-Dichloroethane-d4

Concen: 46.217 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 65 Resp: 120209

Ion Ratio Lower Upper

65 100

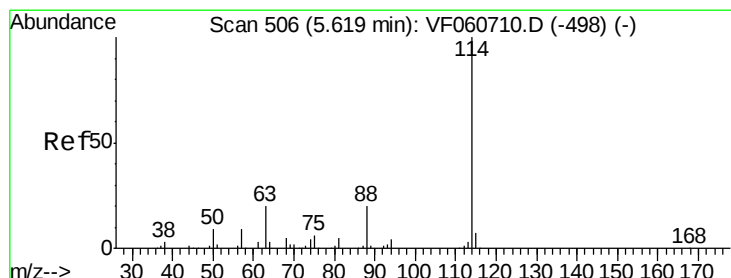
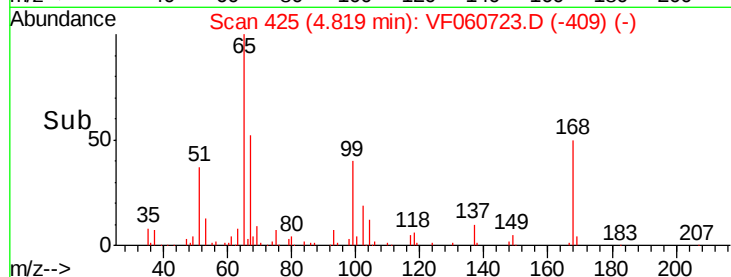
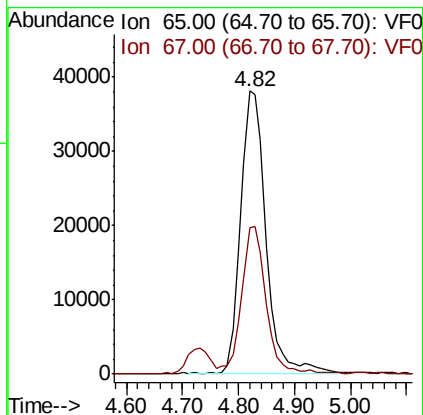
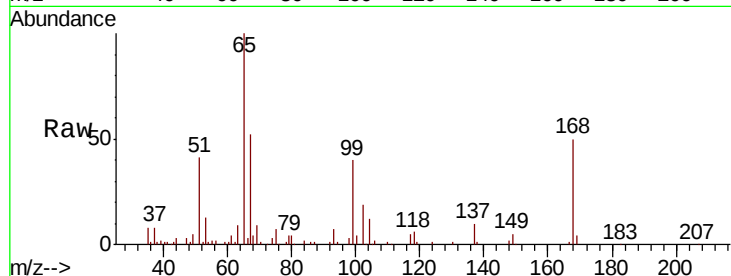
67 51.7 0.0 90.2

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

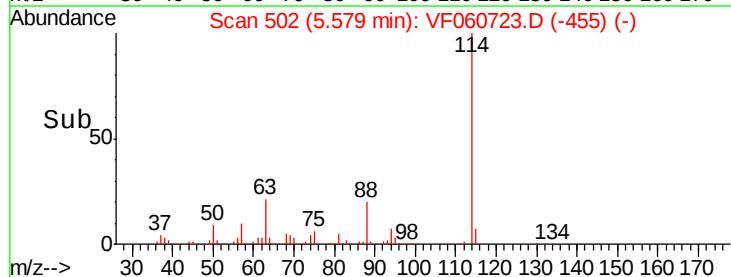
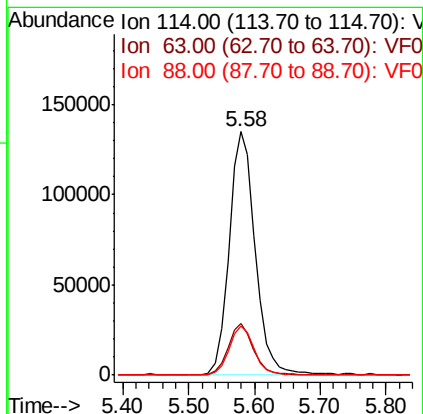
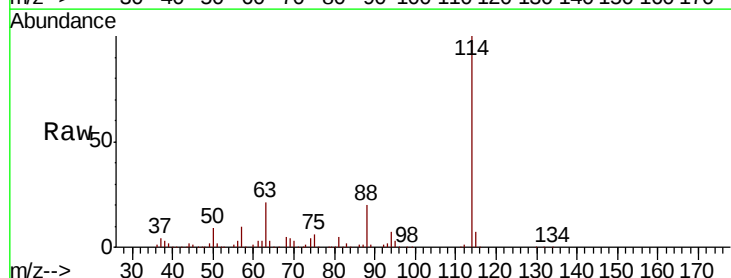
Tgt Ion: 114 Resp: 374770

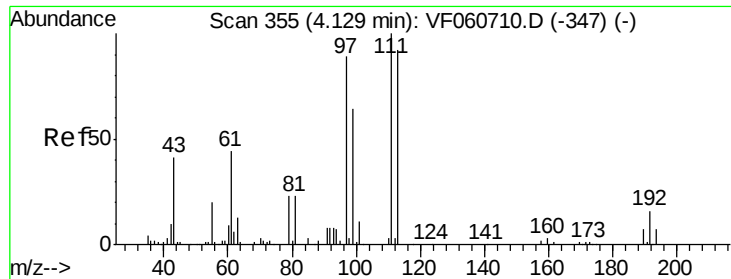
Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.8

88 19.9 0.0 39.6





#35

Dibromofluoromethane

Concen: 47.316 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060723.D

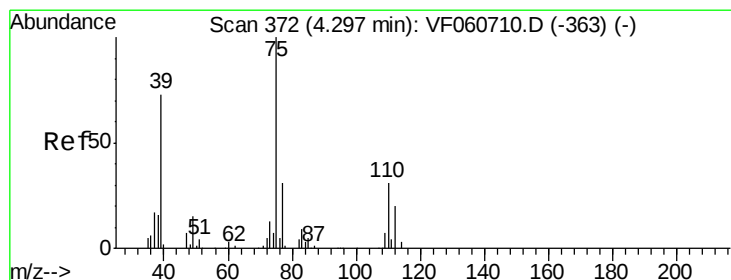
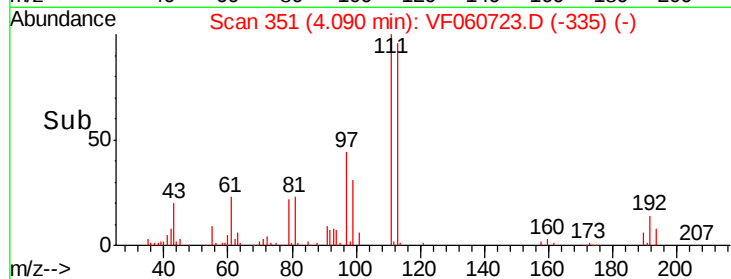
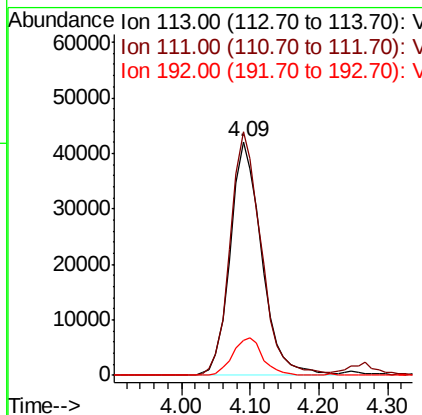
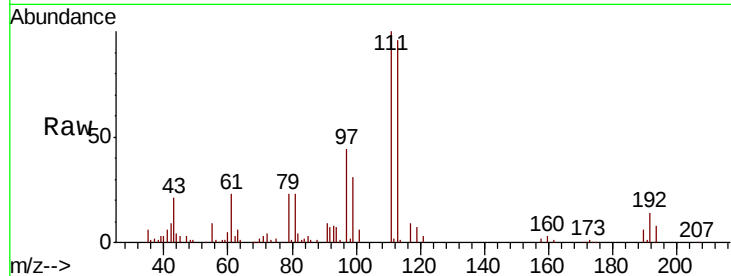
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion:	113	Resp:	133294
Ion	Ratio	Lower	Upper
113	100		
111	104.1	87.1	130.7
192	14.9	13.8	20.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 20.443 ug/l

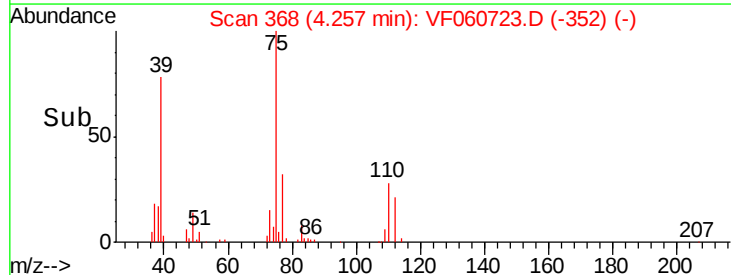
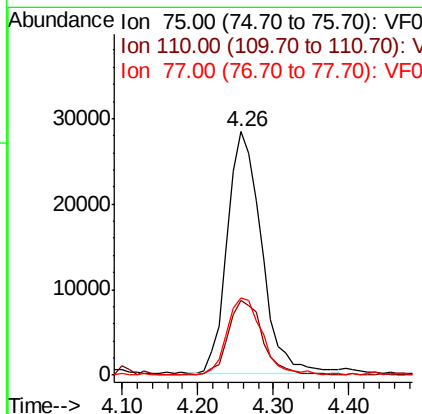
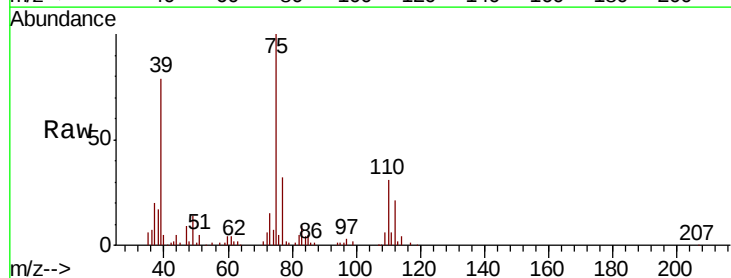
RT: 4.26 min Scan# 368

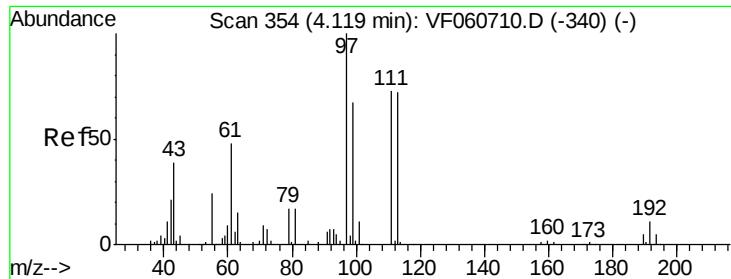
Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	75	Resp:	88854
Ion	Ratio	Lower	Upper
75	100		
110	30.9	15.6	46.8
77	31.8	25.0	37.6





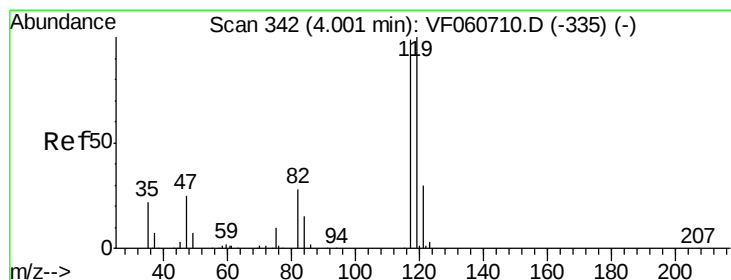
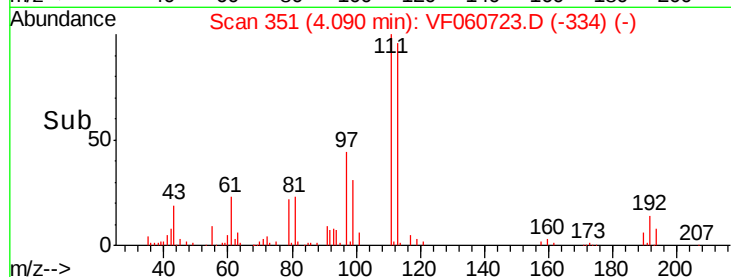
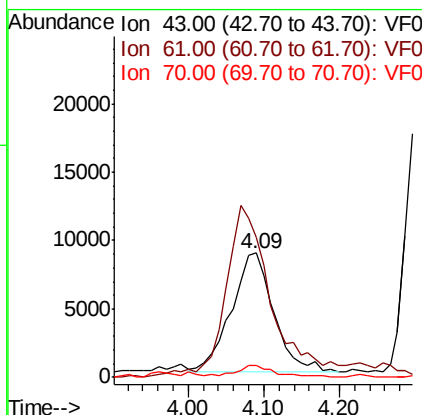
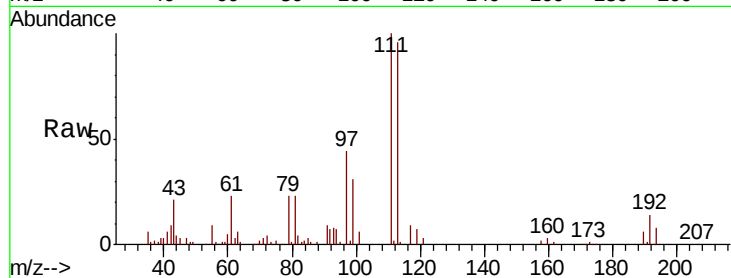
#37
Ethyl Acetate
Concen: 20.877 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
33736	100	113.1	10.1		98.5	147.7
					7.4	11.0

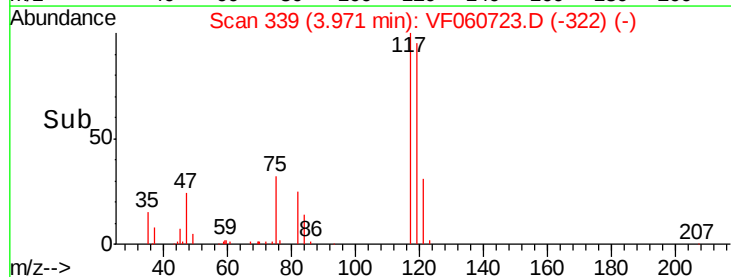
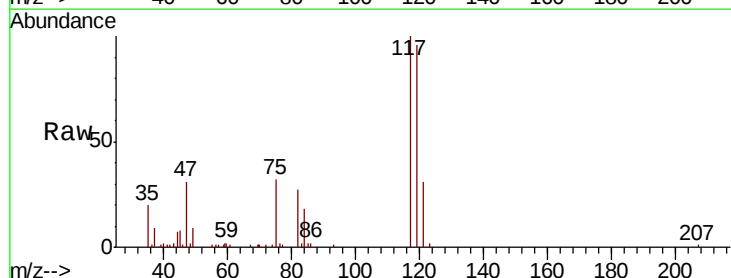
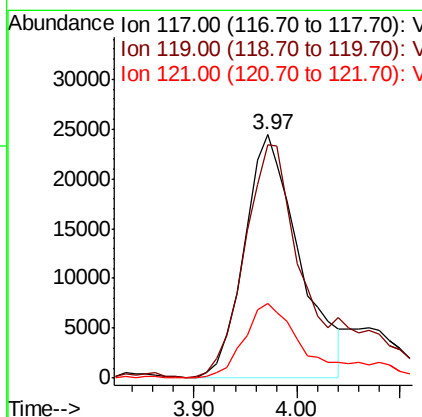
Manual Integrations
APPROVED

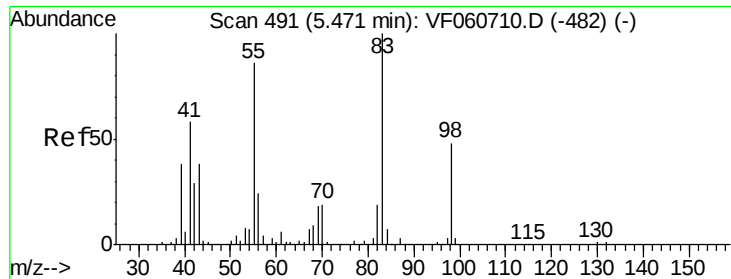
MMDadoda
11/15/2018 1:30:41 PM



#38
Carbon Tetrachloride
Concen: 21.751 ug/l m
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	117	119	121	Ratio	Lower	Upper
91732	100	95.9	30.7		80.7	121.1
					24.3	36.5





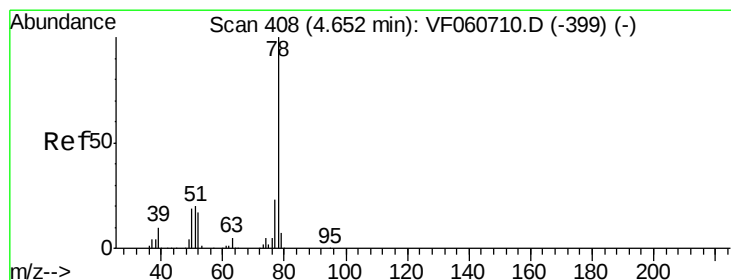
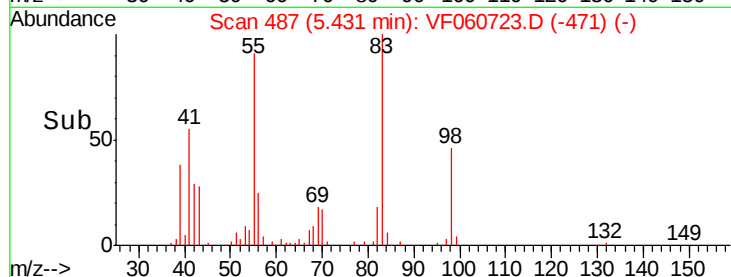
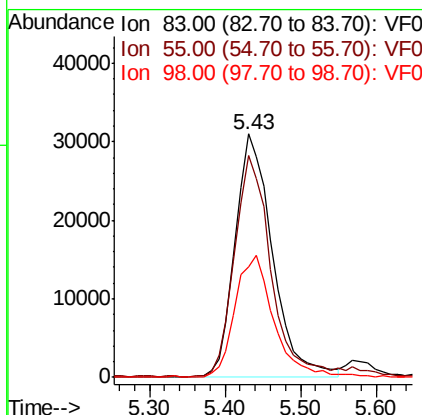
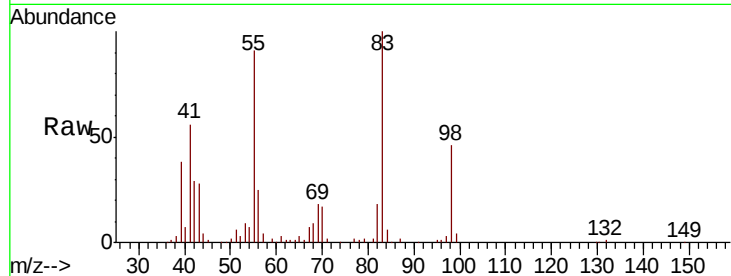
#39
Methvlcvclohexane
Concen: 21.237 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBSD01

Tot Ion	83.00	Resp	107090
Ion Ratio	Lower	Upper	
83	100		
55	90.9	69.0	103.4
98	45.5	38.5	57.7

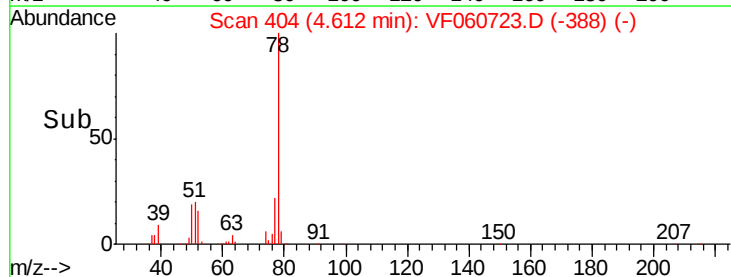
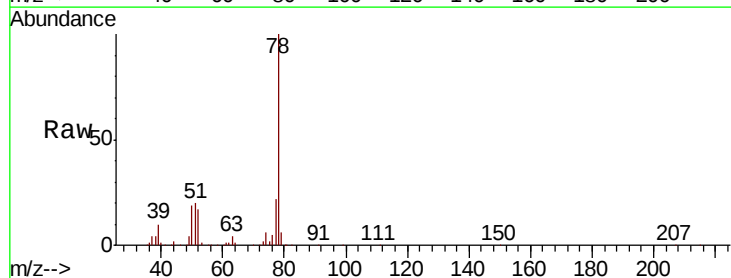
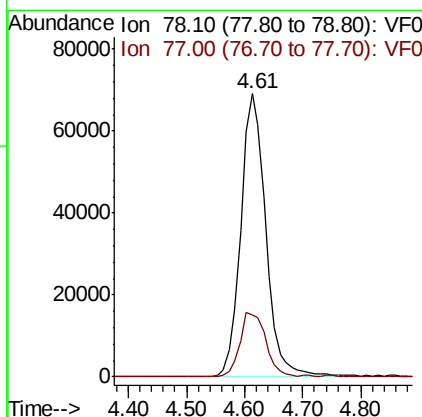
Manual Integrations
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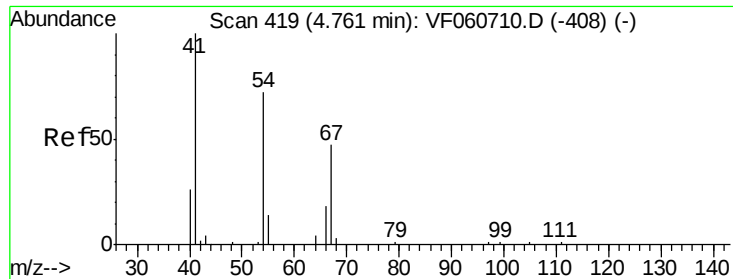
MMDadoda
11/15/2018 1:30:41 PM



#40
Benzene
Concen: 21.369 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	78	Resp	207043
Ion Ratio	Lower	Upper	
78	100		
77	22.1	18.6	28.0





#41

Methacrylonitrile

Concen: 21.430 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

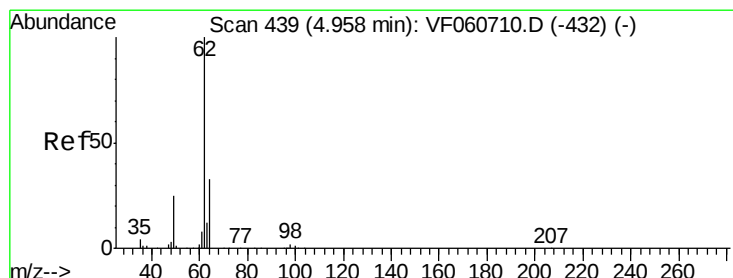
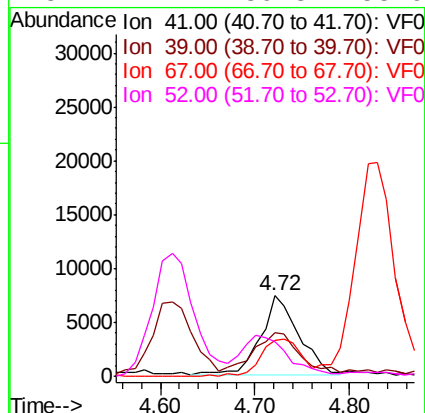
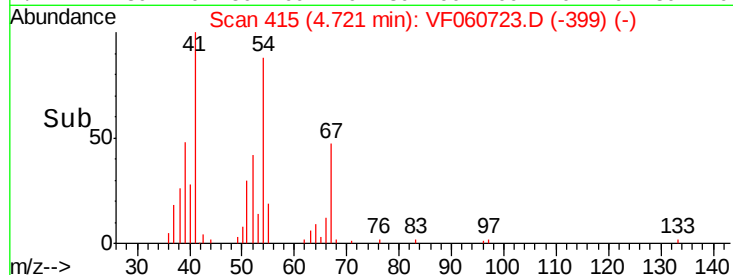
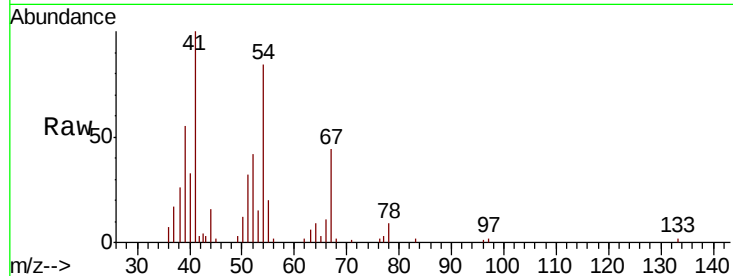
ClientSampleId :

VF1114SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.8	47.1	70.7	
67	44.4	37.1	55.7	
52	42.4	39.3	58.9	

Manual Integrations
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11/15/2018 1:30:41 PM



#42

1,2-Dichloroethane

Concen: 19.851 ug/l

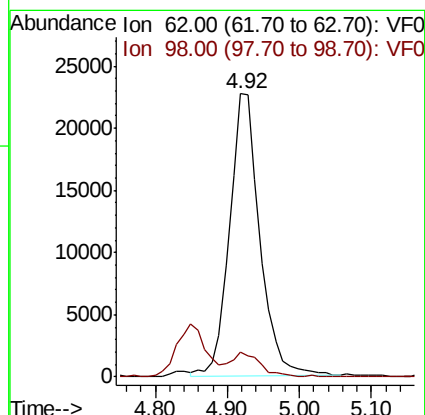
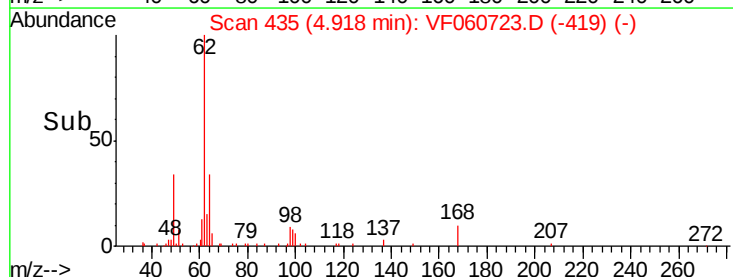
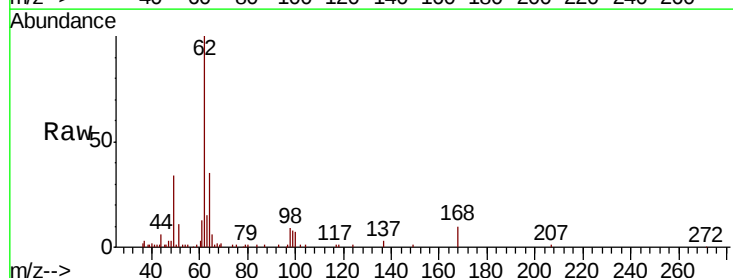
RT: 4.92 min Scan# 435

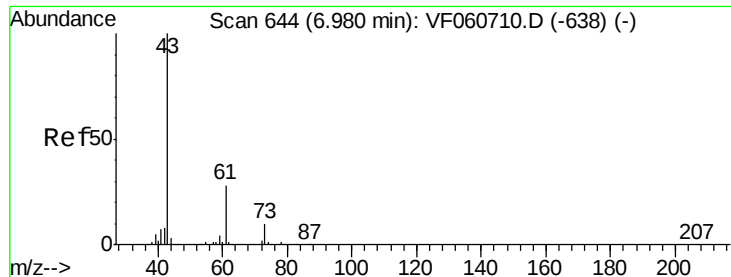
Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.9	0.0	16.6	





#43

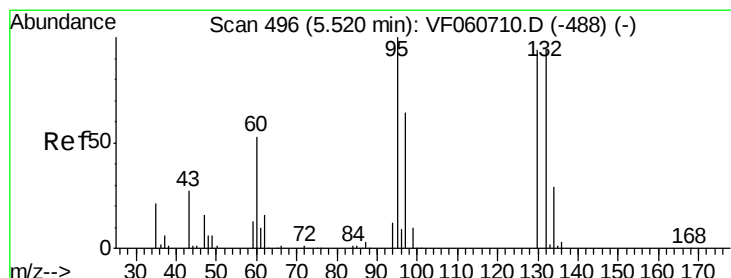
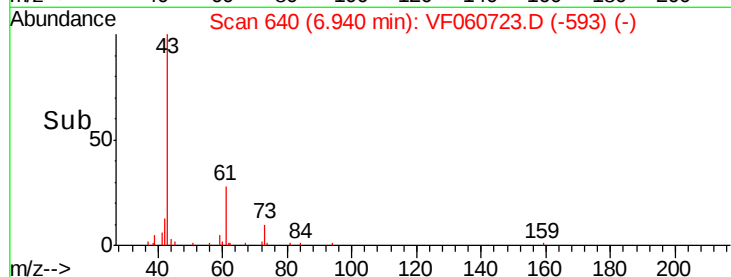
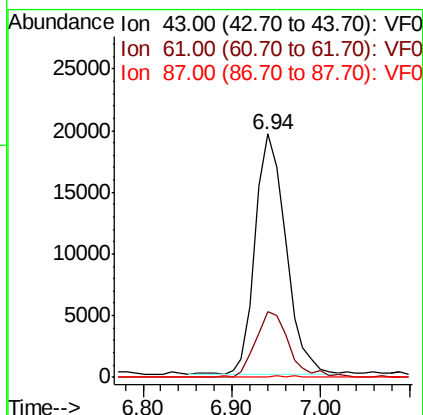
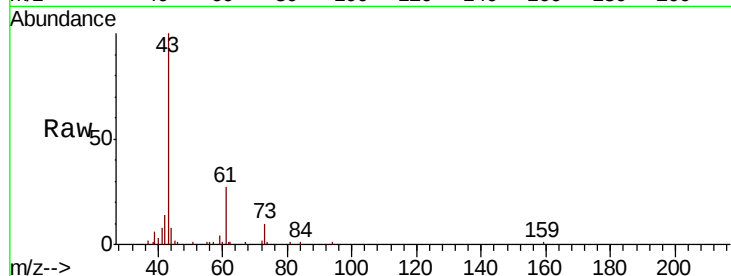
Isopropyl Acetate
 Concen: 21.655 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.04 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.8	22.2	33.4
87	0.0	0.4	0.6

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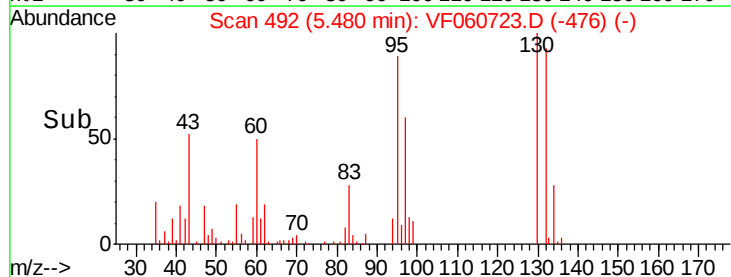
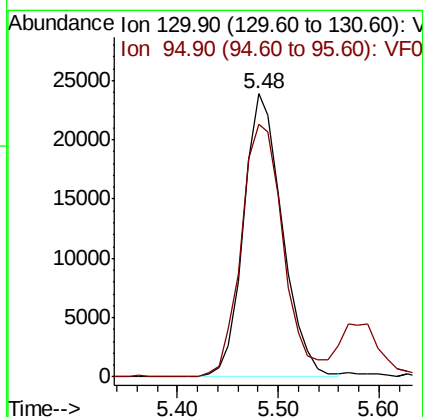
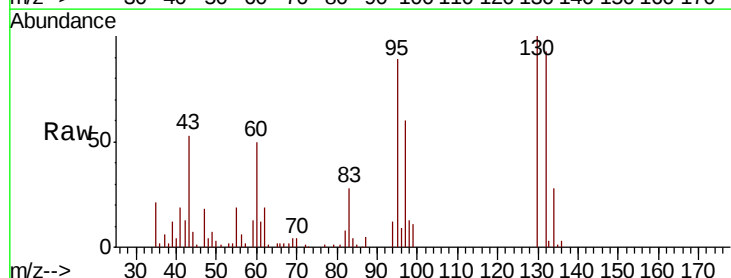
MMDadoda
 11/15/2018 1:30:41 PM

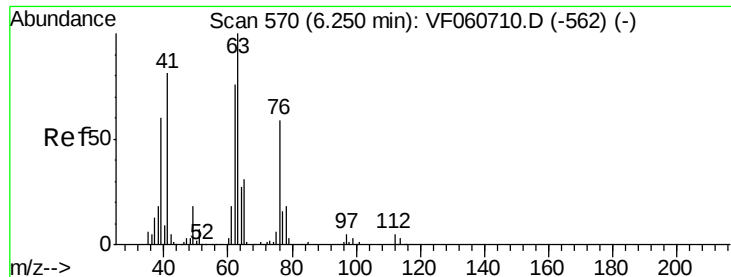


#44

Trichloroethene
 Concen: 20.915 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.04 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.5	0.0	212.6





#45

1,2-Dichloropropane

Concen: 20.704 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 63 Resp: 52198

Ion Ratio Lower Upper

63 100

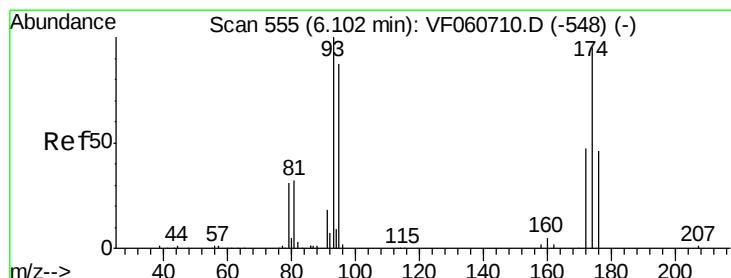
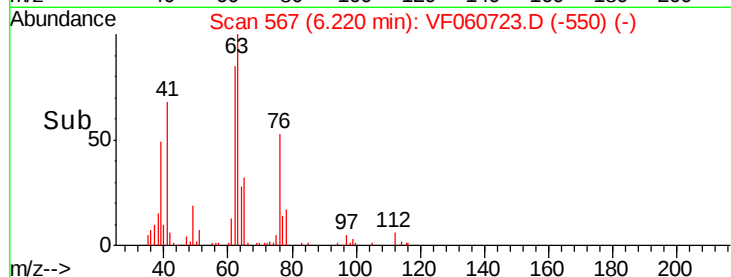
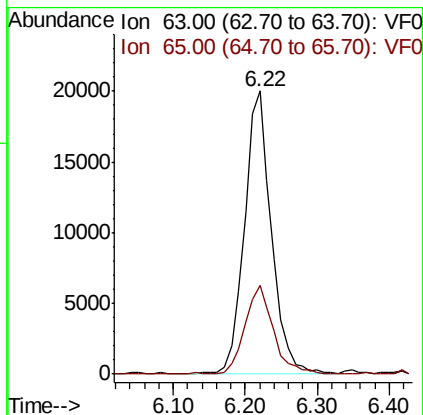
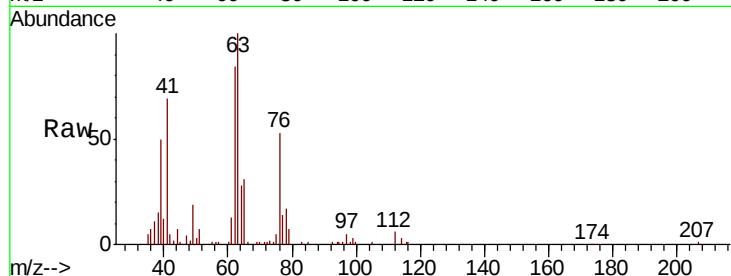
65 31.4 24.6 36.8

Manual Integrations

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#46

Dibromomethane

Concen: 21.801 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

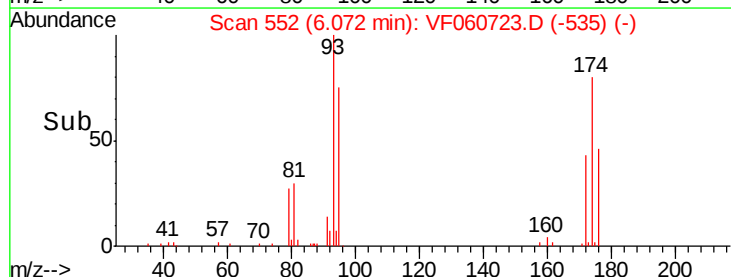
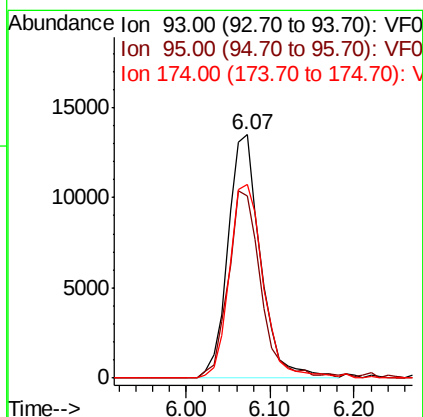
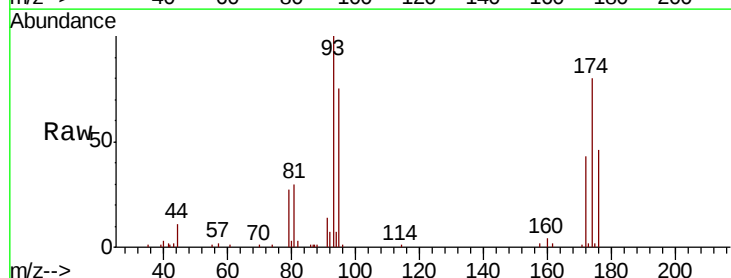
Tgt Ion: 93 Resp: 36283

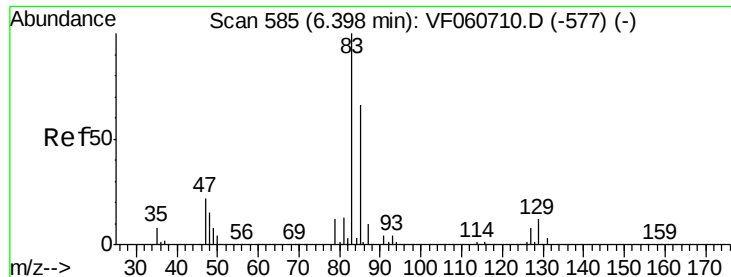
Ion Ratio Lower Upper

93 100

95 74.7 69.5 104.3

174 82.1 76.2 114.2





#47

Bromodichloromethane

Concen: 20.421 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

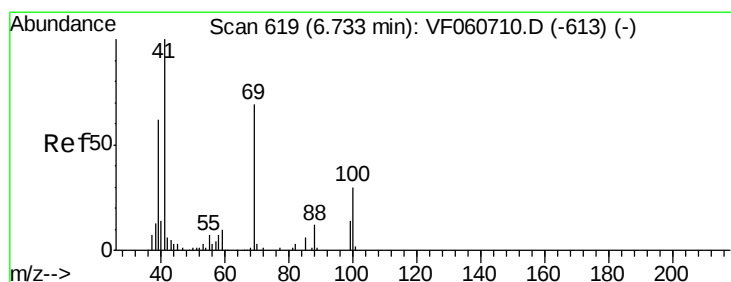
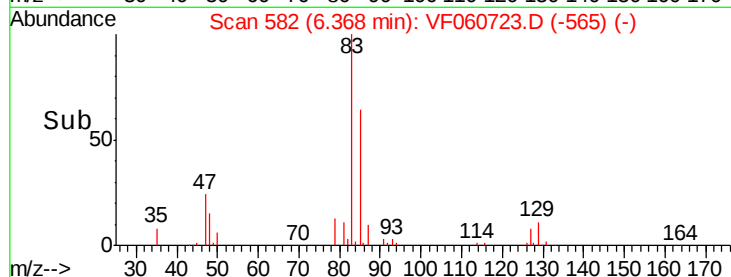
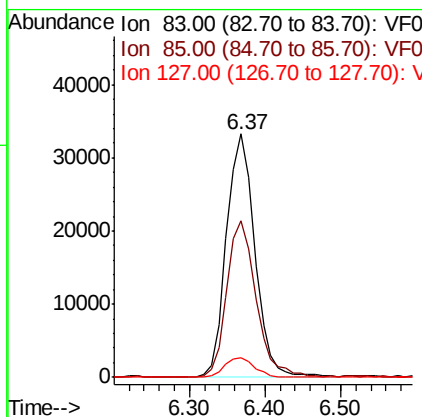
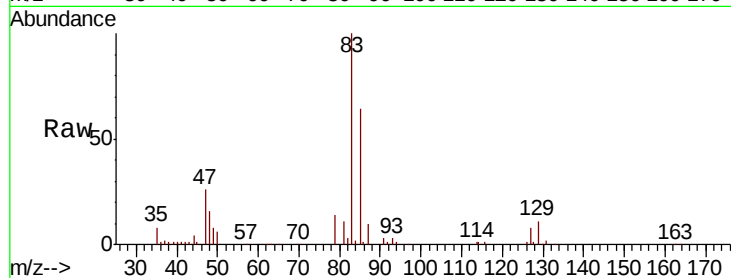
ClientSampleId :

VF1114SBS01

Tot Ion:	83	Resp:	86789
Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.4	78.6
127	8.2	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.640 ug/l

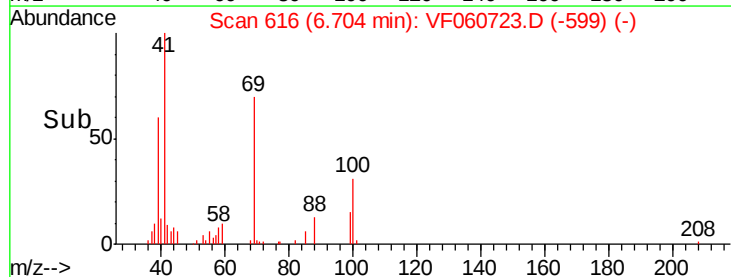
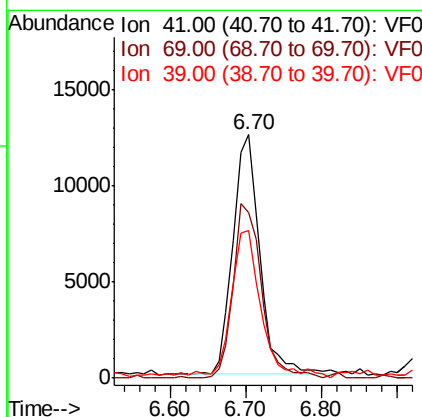
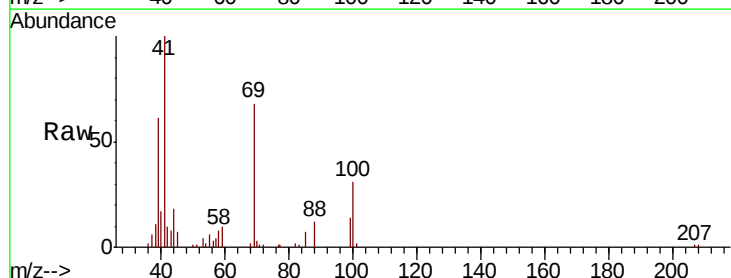
RT: 6.70 min Scan# 616

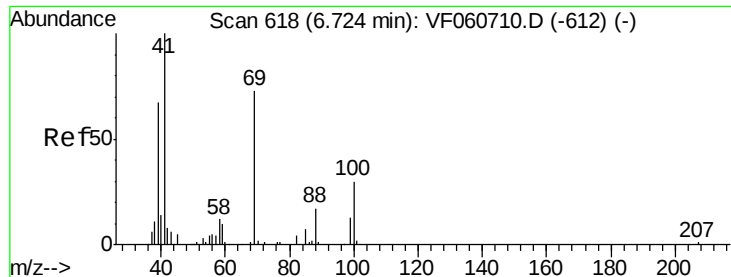
Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	41	Resp:	30684
Ion	Ratio	Lower	Upper
41	100		
69	68.1	54.9	82.3
39	60.6	49.6	74.4





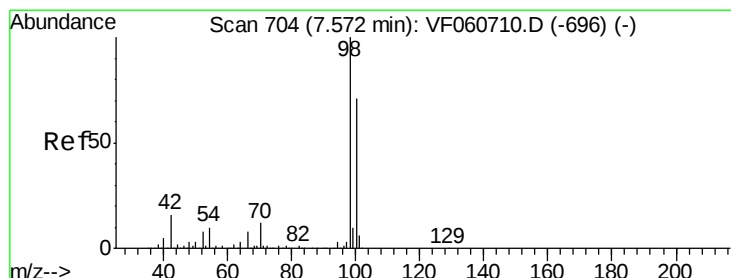
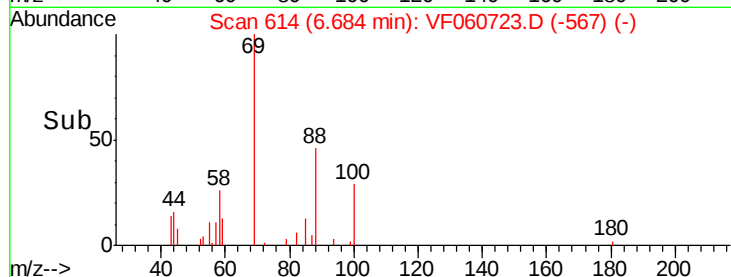
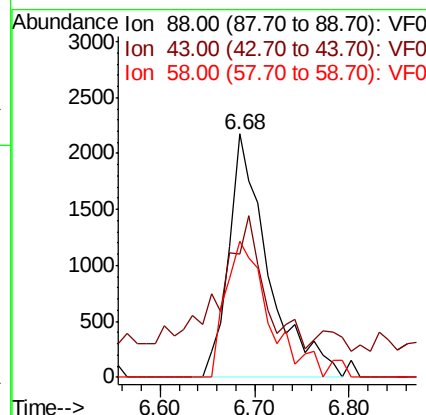
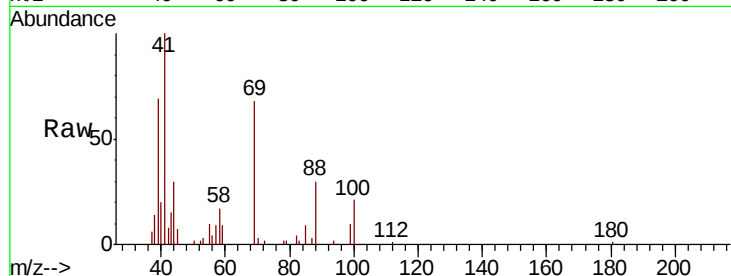
#49
1,4-Dioxane
Concen: 474.469 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	50.5	44.6	66.8
58	56.1	54.5	81.7

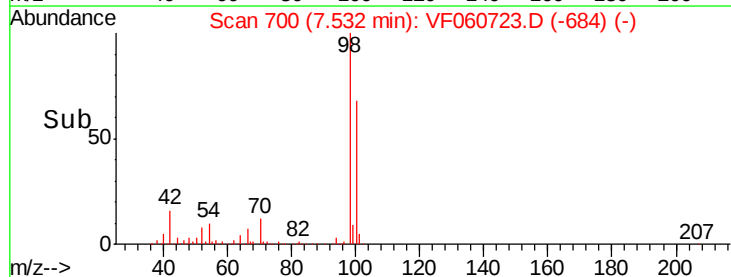
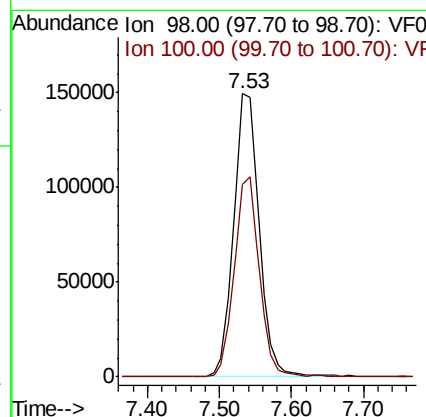
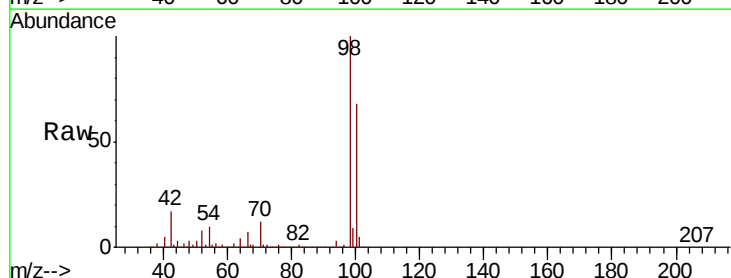
Manual Integrations
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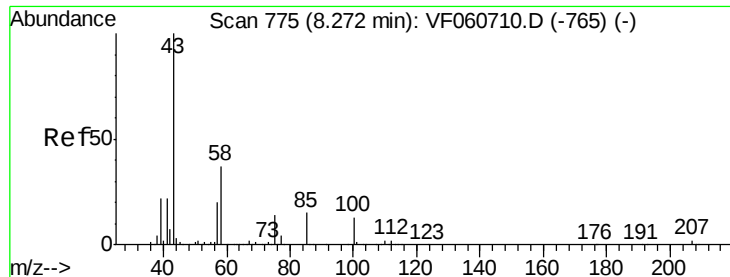
MMDadoda
11/15/2018 1:30:41 PM



#50
Toluene-d8
Concen: 51.438 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.2	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 105.257 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 43 Resp: 163102

Ion Ratio Lower Upper

43 100

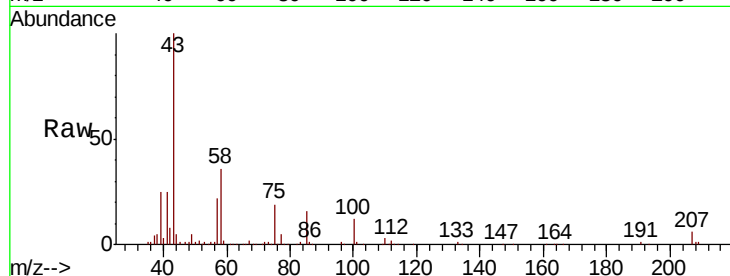
58 35.8 29.2 43.8

Manual Integrations

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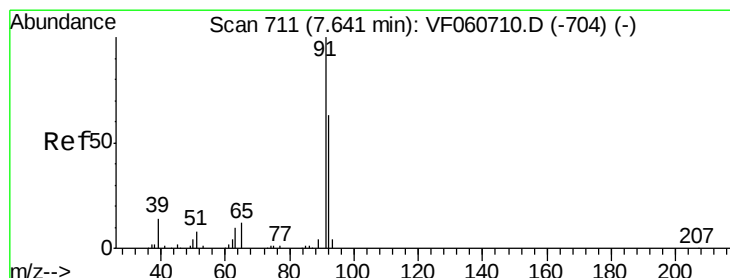
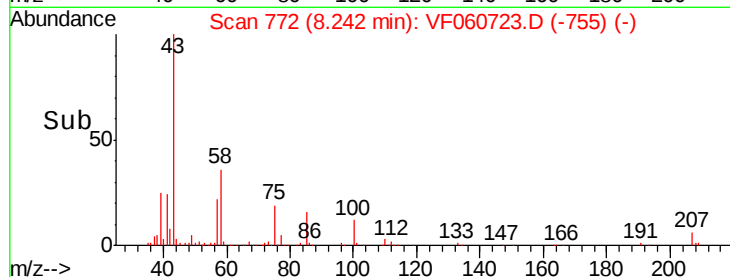
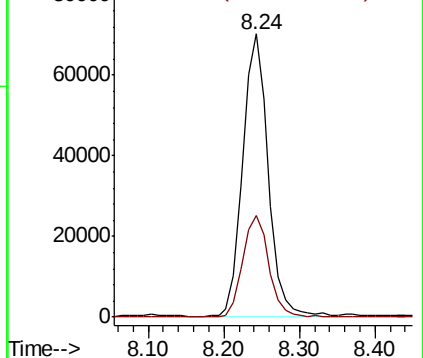
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.484 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.03 min

Lab File: VF060723.D

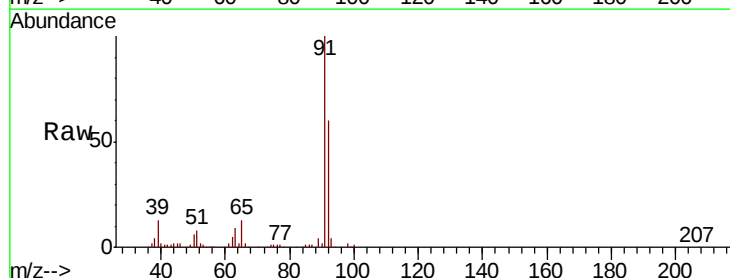
Acq: 14 Nov 2018 14:09

Tgt Ion: 92 Resp: 132996

Ion Ratio Lower Upper

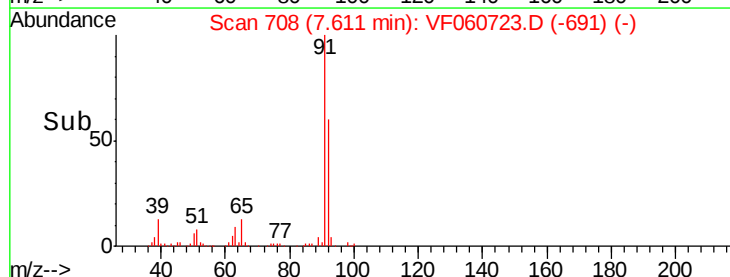
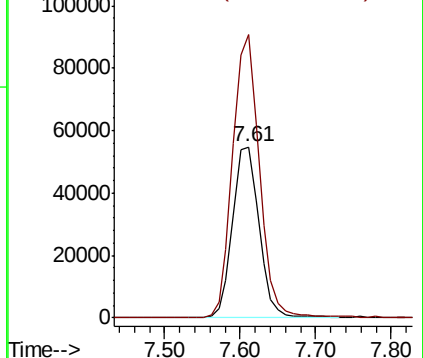
92 100

91 165.7 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.572 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 75 Resp: 70027

Ion Ratio Lower Upper

75 100

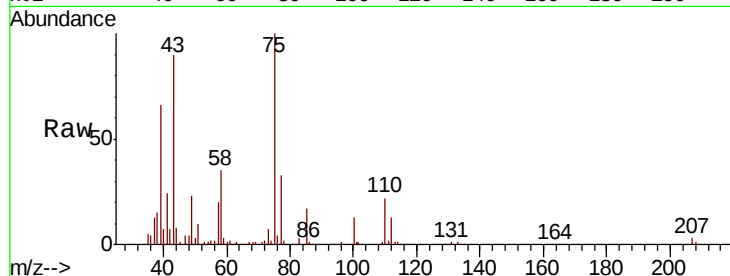
77 32.7 24.6 36.8

Manual Integrations

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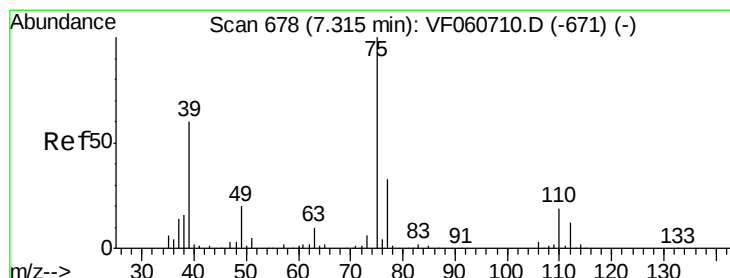
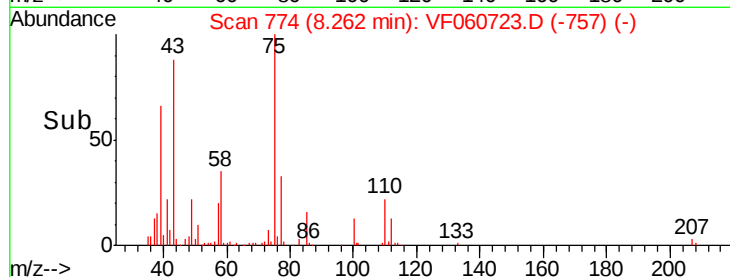
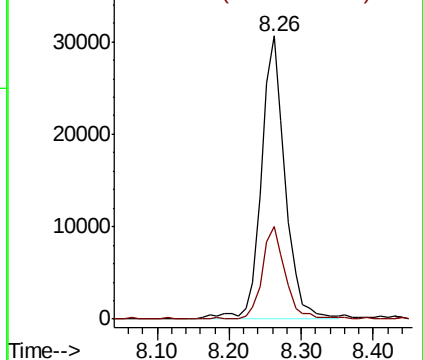
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 19.044 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

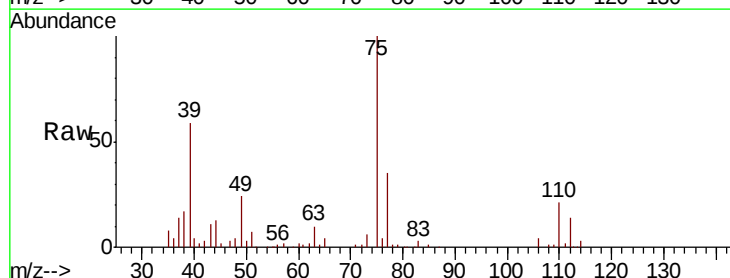
Tgt Ion: 75 Resp: 84205

Ion Ratio Lower Upper

75 100

77 35.1 26.5 39.7

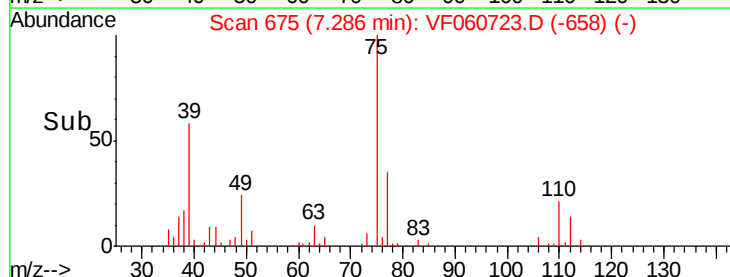
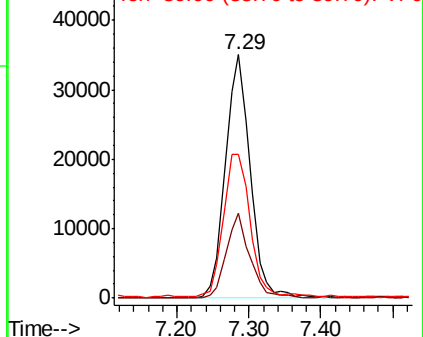
39 59.2 48.5 72.7

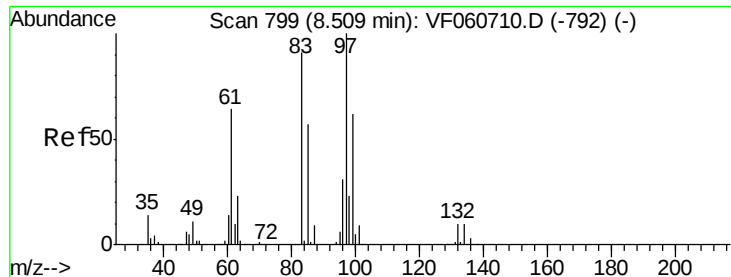


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 20.920 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBSD01

Tot Ion: 97 Resp: 38808

Ion Ratio Lower Upper

97 100

83 88.3 72.8 109.2

85 57.3 45.8 68.6

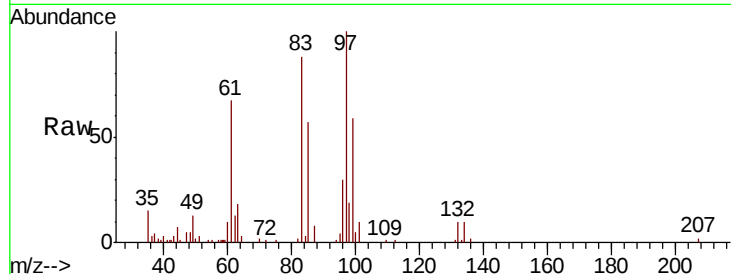
99 58.6 49.4 74.0

Manual Integrations

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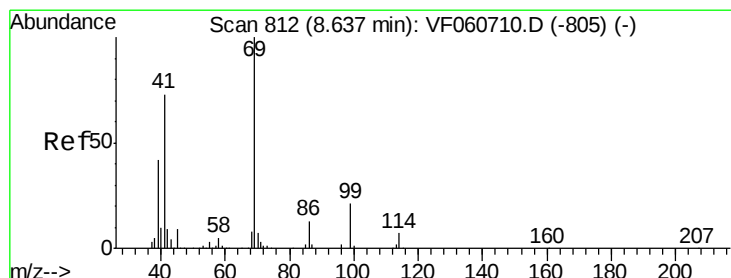
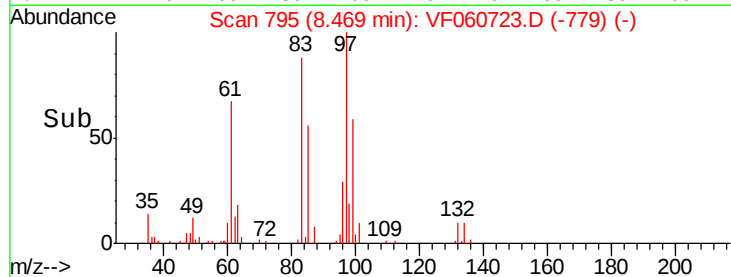
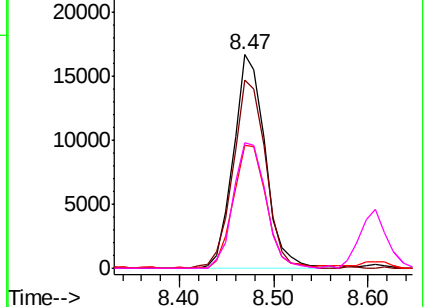


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 22.481 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

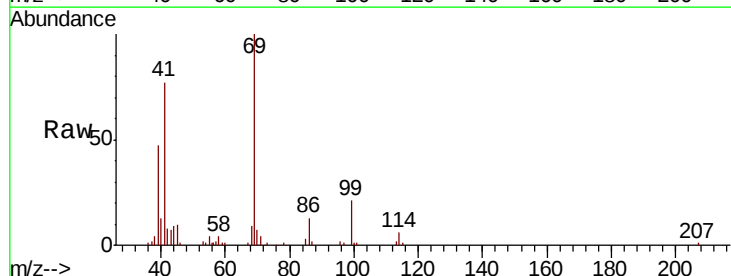
Tgt Ion: 69 Resp: 47363

Ion Ratio Lower Upper

69 100

41 77.5 59.0 88.6

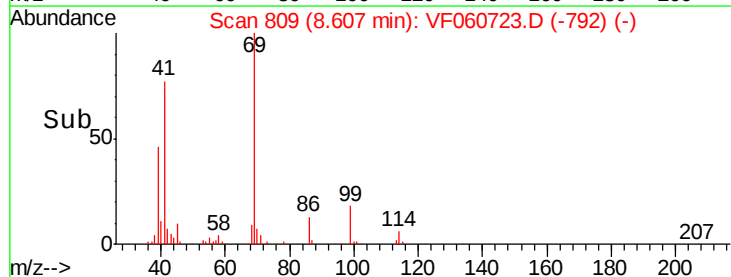
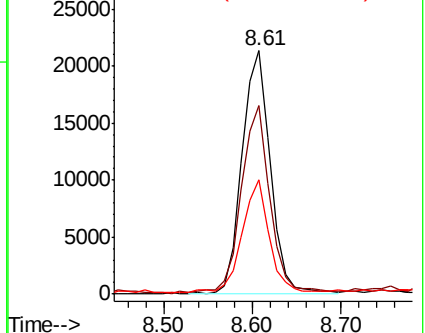
39 47.0 34.0 51.0

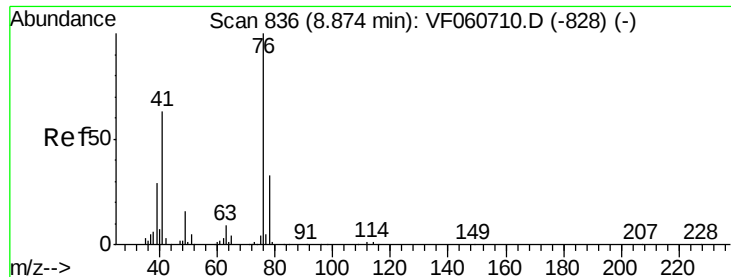


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.262 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 76 Resp: 68358

Ion Ratio Lower Upper

76 100

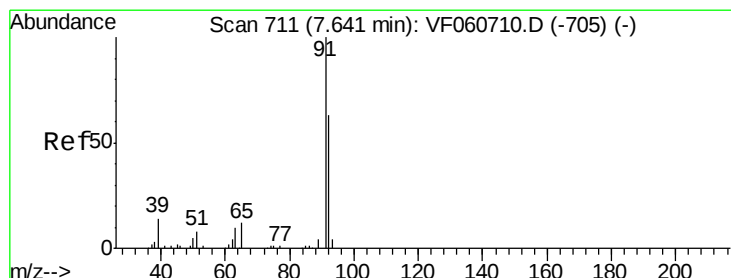
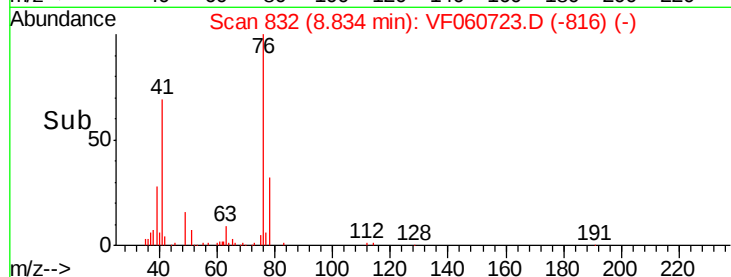
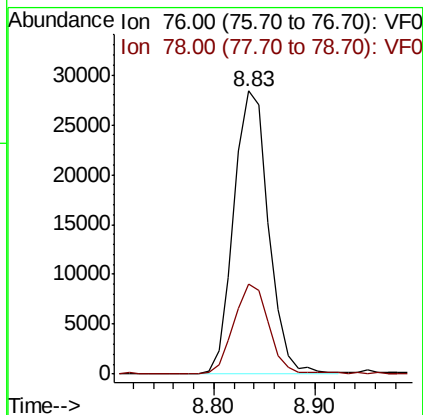
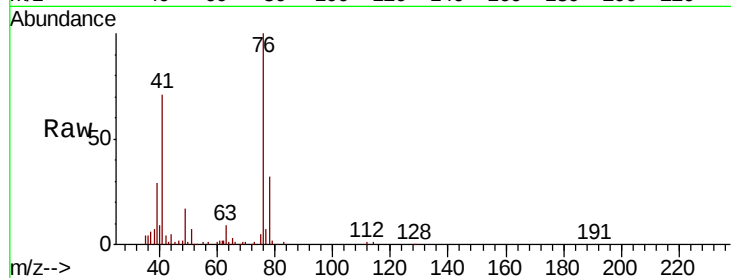
78 31.9 26.6 39.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 107.313 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.03 min

Lab File: VF060723.D

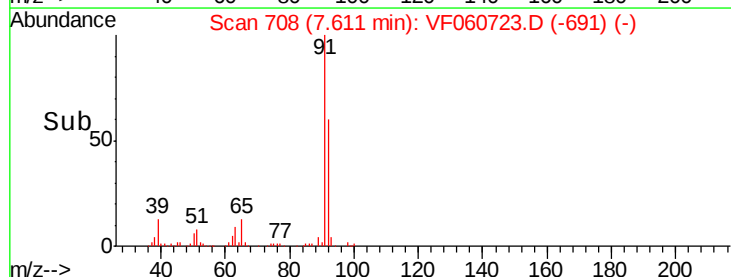
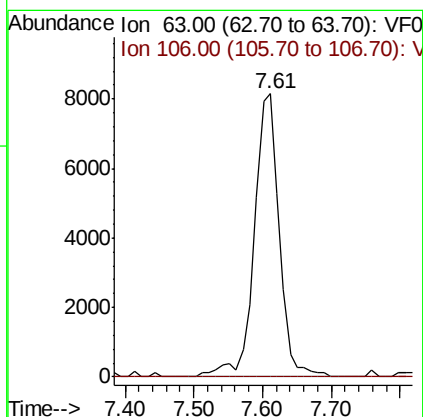
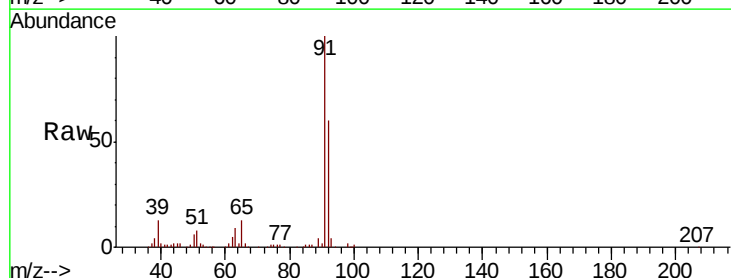
Acq: 14 Nov 2018 14:09

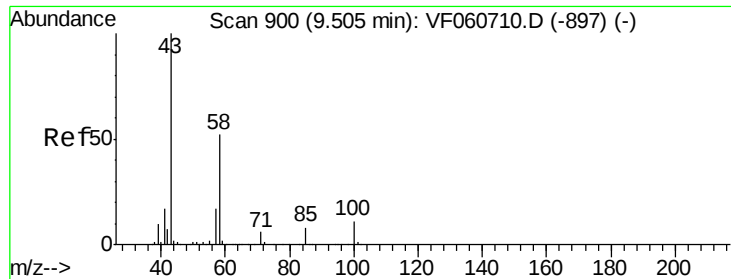
Tgt Ion: 63 Resp: 20653

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





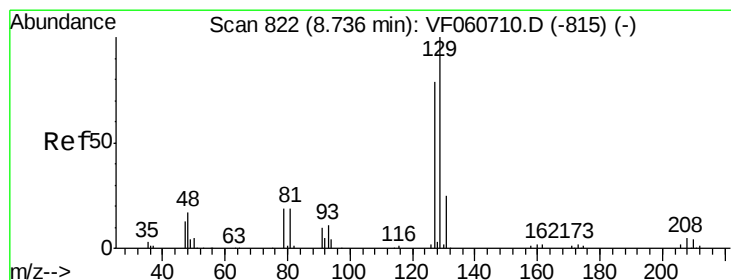
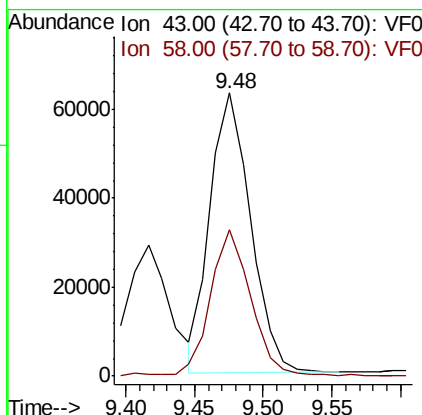
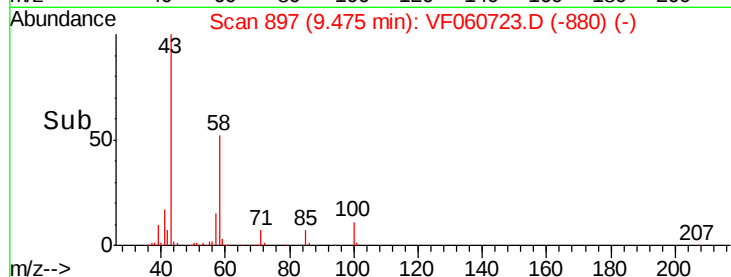
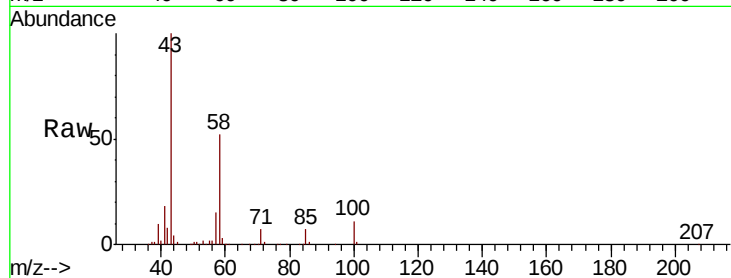
#59
2-Hexanone
Concen: 118.829 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBSD01

Tot Ion: 43 Resp: 129403
Ion Ratio Lower Upper
43 100
58 51.6 24.9 74.7

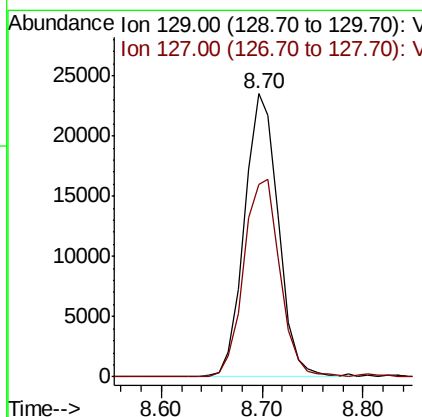
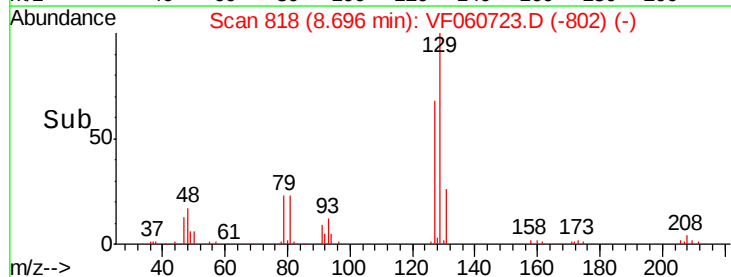
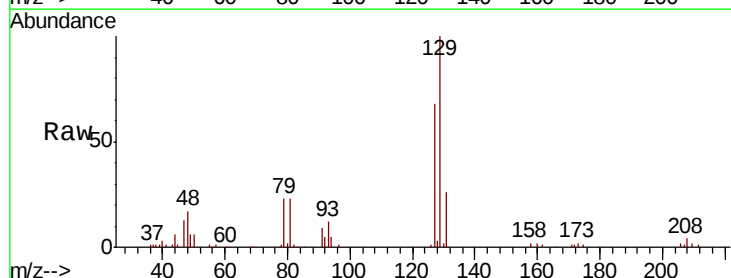
Manual Integrations
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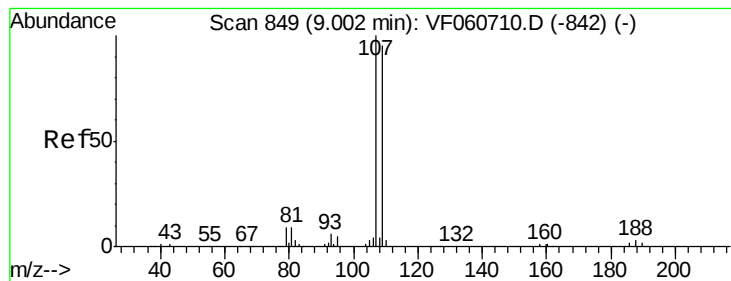
MMDadoda
11/15/2018 1:30:41 PM



#60
Dibromochloromethane
Concen: 20.776 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion: 129 Resp: 54928
Ion Ratio Lower Upper
129 100
127 68.1 39.7 119.1





#61

1,2-Dibromoethane

Concen: 21.246 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion:107 Resp: 41451

Ion Ratio Lower Upper

107 100

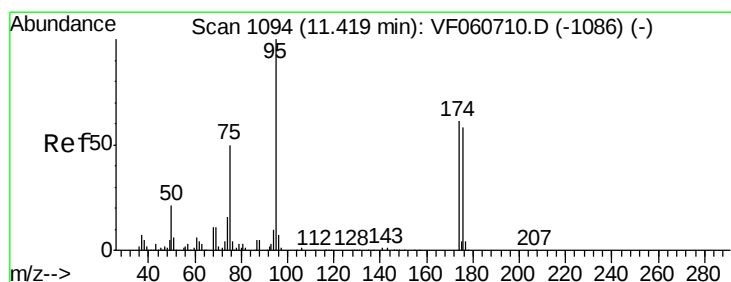
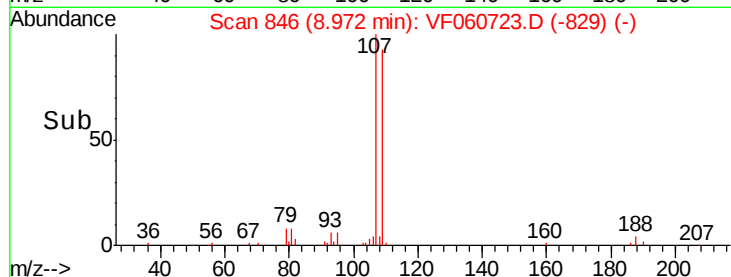
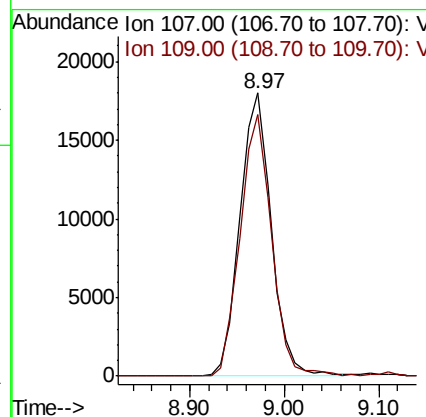
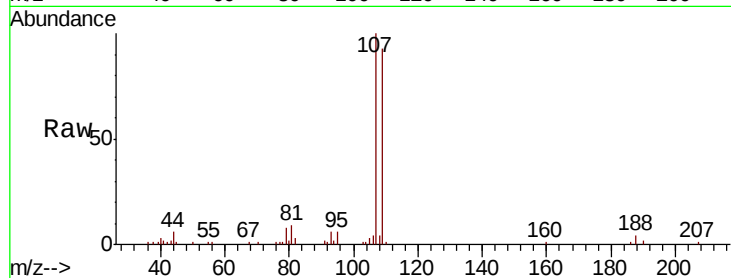
109 92.6 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

11/15/2018 1:30:41 PM



#62

4-Bromofluorobenzene

Concen: 54.980 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

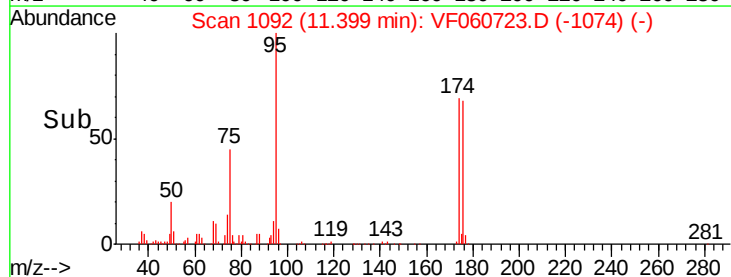
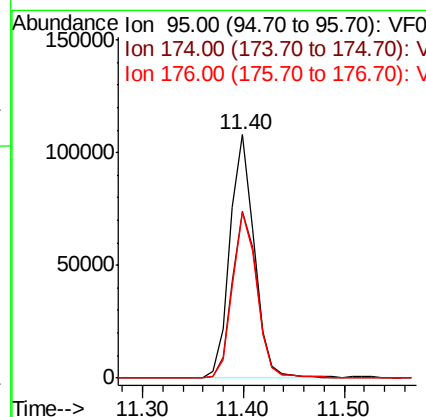
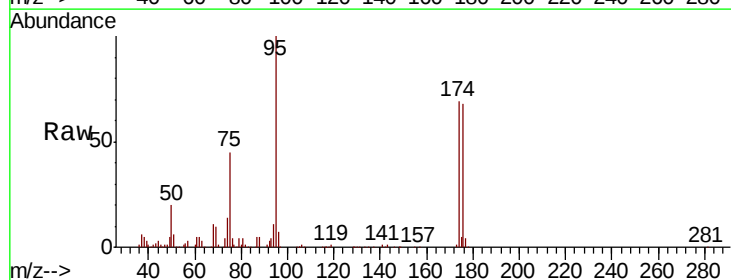
Tgt Ion: 95 Resp: 181945

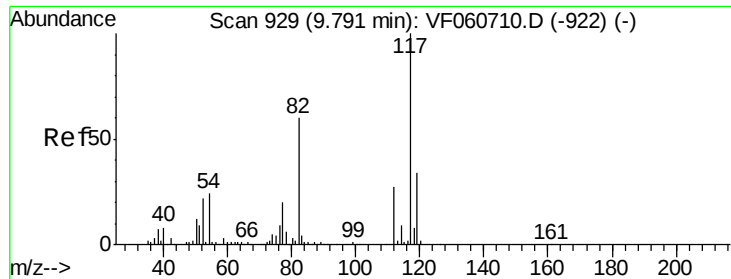
Ion Ratio Lower Upper

95 100

174 68.5 0.0 121.6

176 67.9 0.0 115.2





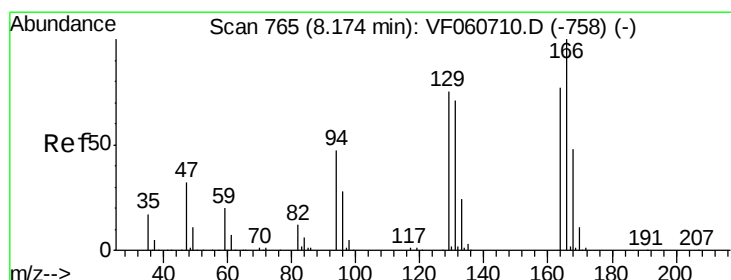
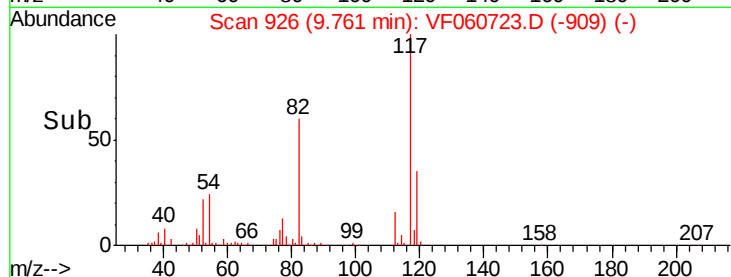
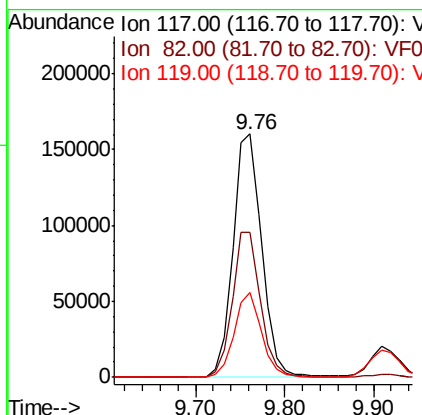
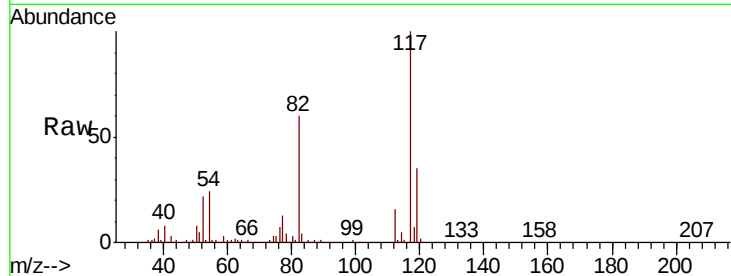
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	363819		
82	59.6		47.9	71.9
119	34.7		26.8	40.2

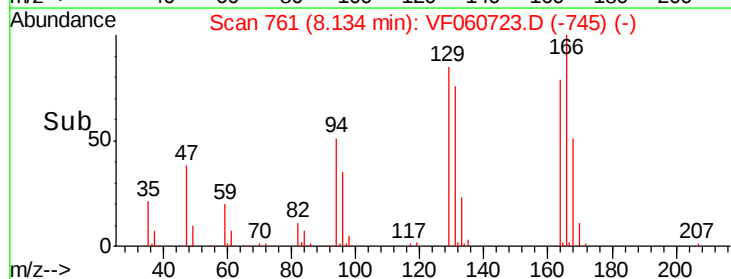
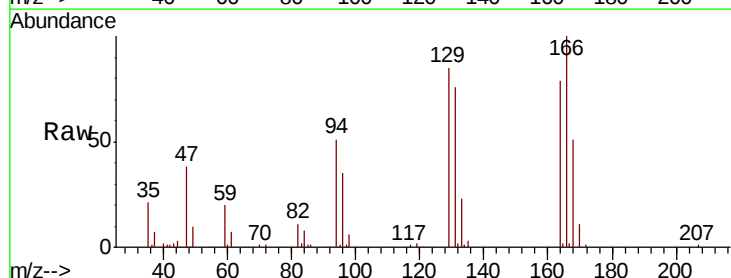
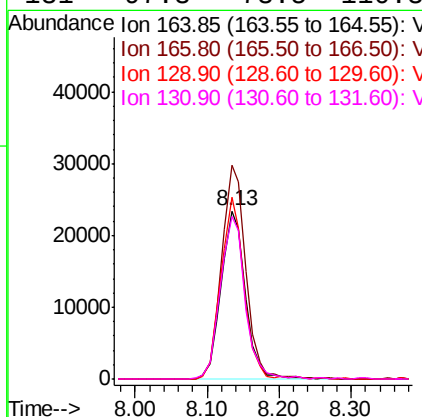
Manual Integrations
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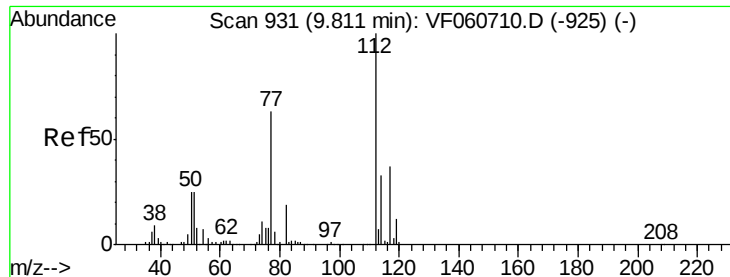
MMDadoda
11/15/2018 1:30:41 PM



#64
Tetrachloroethene
Concen: 18.810 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	54193		
166	127.4		103.5	155.3
129	108.0		77.4	116.2
131	97.3		73.5	110.3





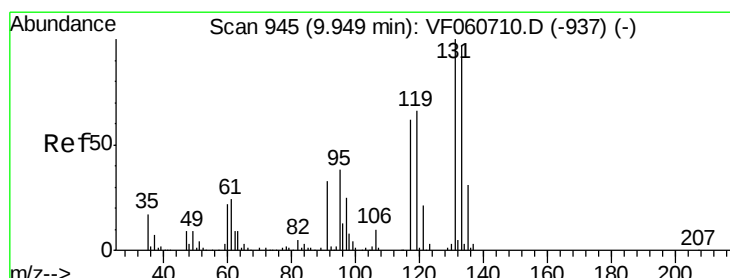
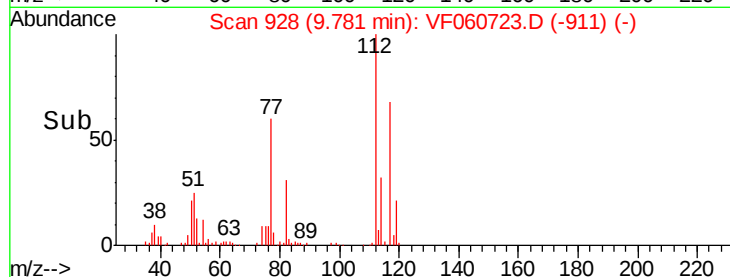
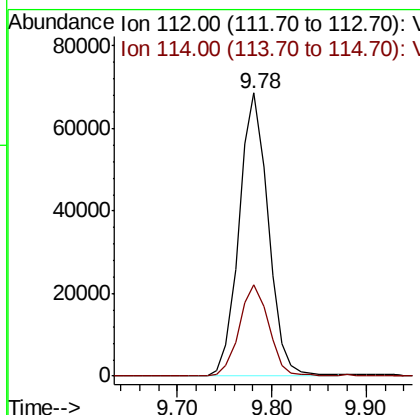
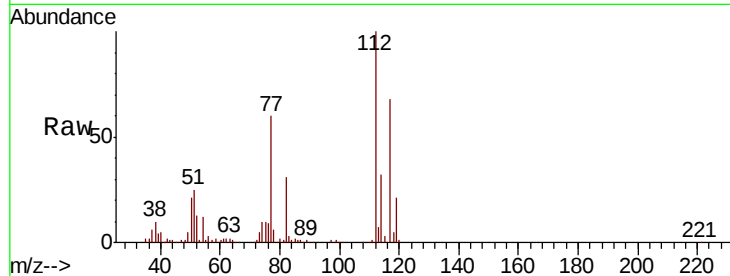
#65
Chlorobenzene
Concen: 20.065 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.1	39.1

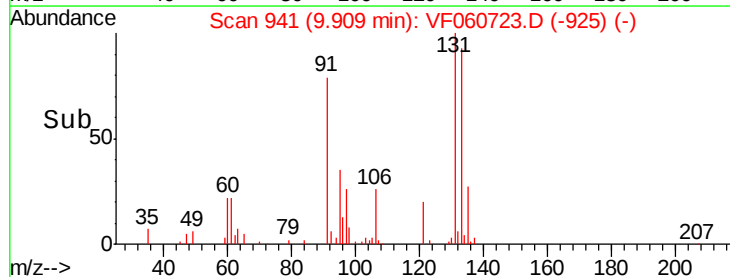
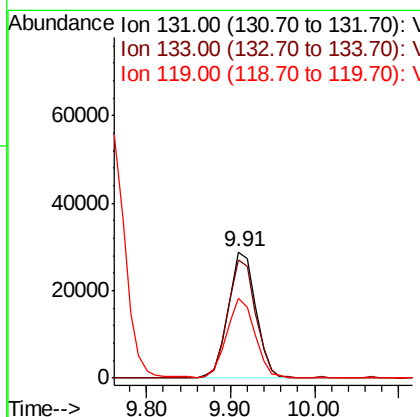
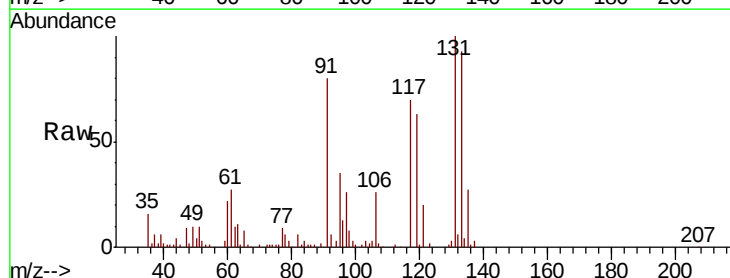
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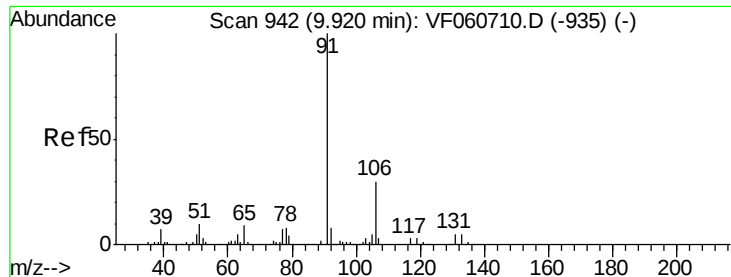
MMDadoda
11/15/2018 1:30:41 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.633 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.04 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.3	48.3	144.8
119	63.3	33.2	99.6





#67

Ethyl Benzene

Concen: 20.658 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.04 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 91 Resp: 285878

Ion Ratio Lower Upper

91 100

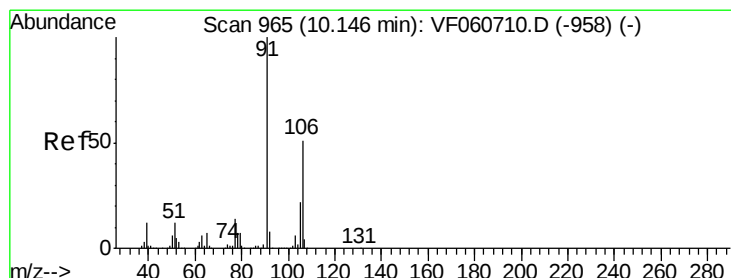
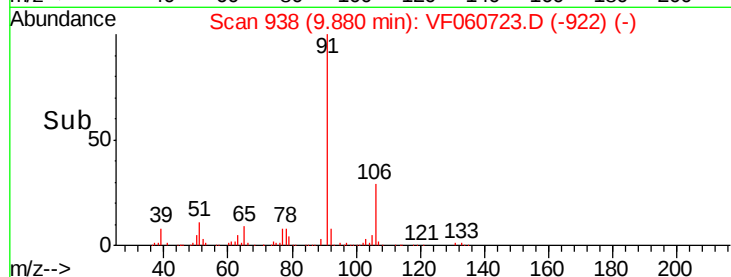
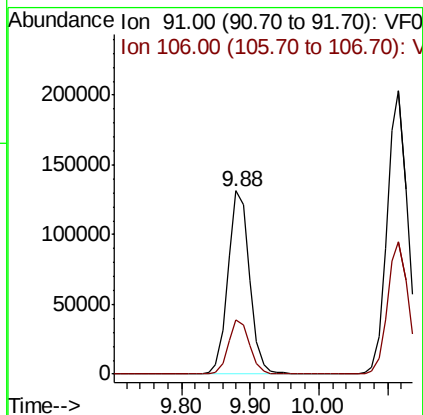
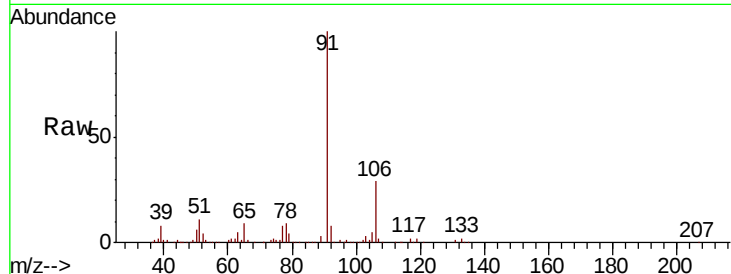
106 29.4 23.9 35.9

Manual Integrations

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#68

m/p-Xylenes

Concen: 40.875 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF060723.D

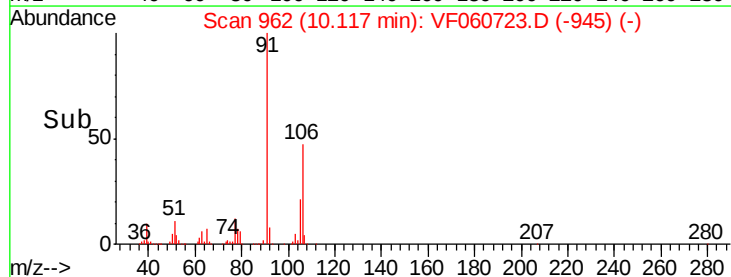
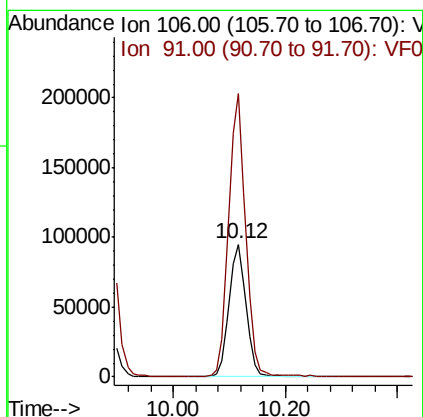
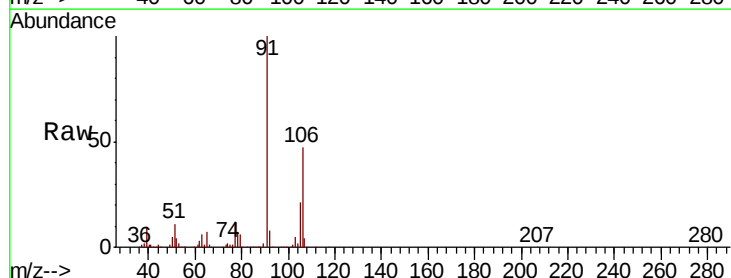
Acq: 14 Nov 2018 14:09

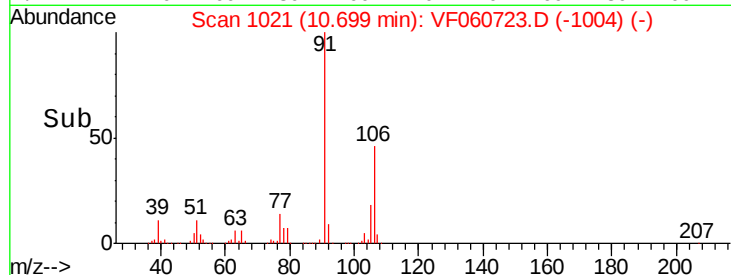
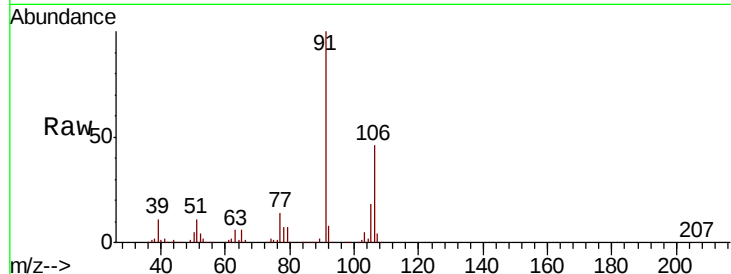
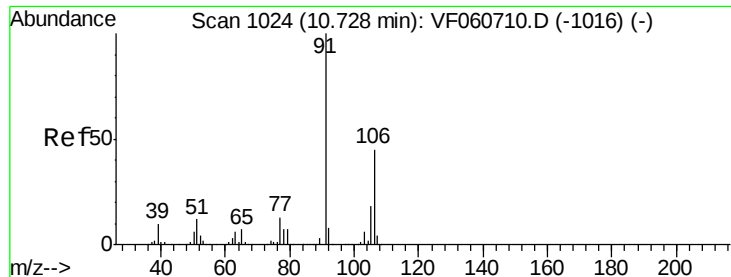
Tgt Ion: 106 Resp: 202149

Ion Ratio Lower Upper

106 100

91 213.1 158.2 237.2





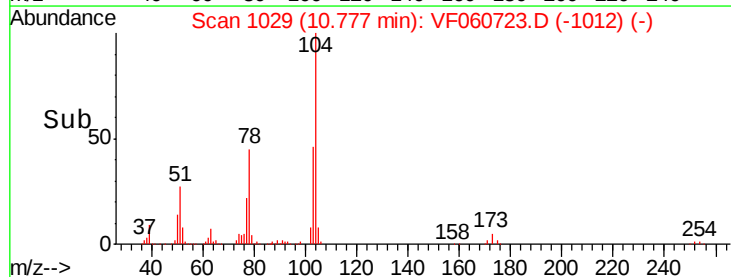
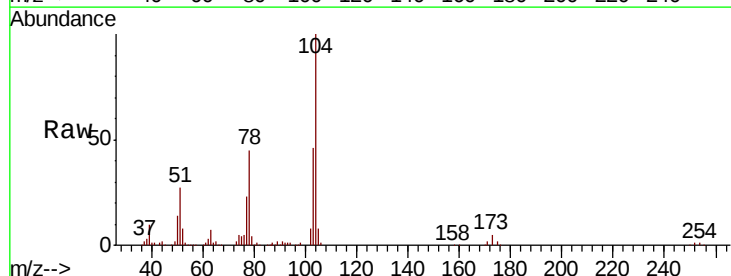
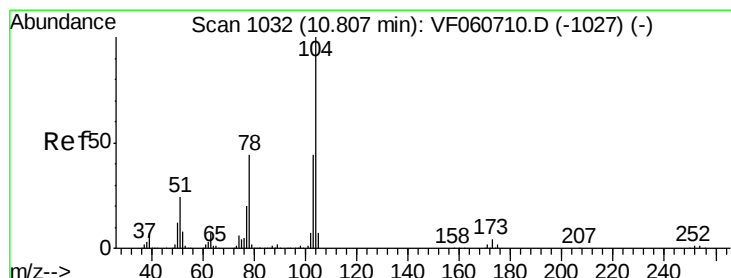
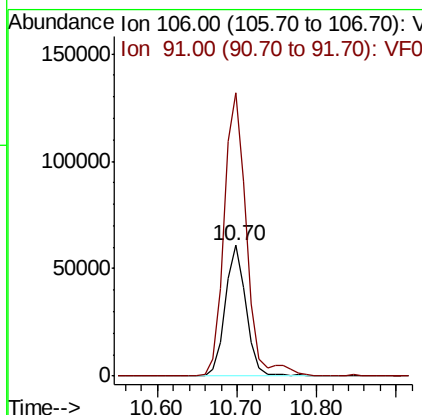
#69
o-Xylene
Concen: 20.346 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	113126		
91	91	216.1	110.3	330.9	

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

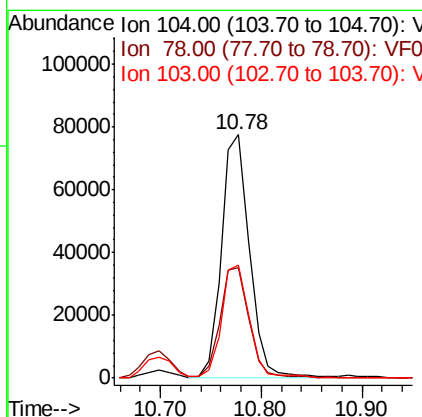
Manual Integrations
APPROVED

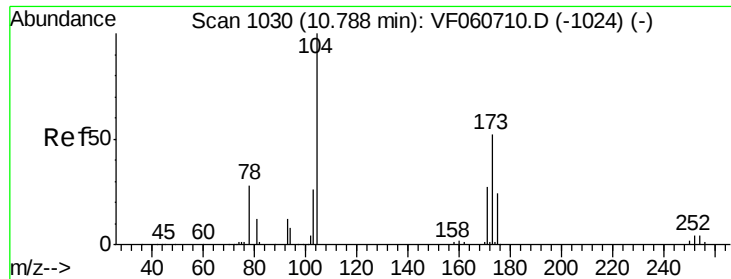
MMDadoda
11/15/2018 1:30:41 PM



#70
Styrene
Concen: 19.732 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	148895		
78	78	45.4	35.4	53.2	
103	103	46.4	35.8	53.6	





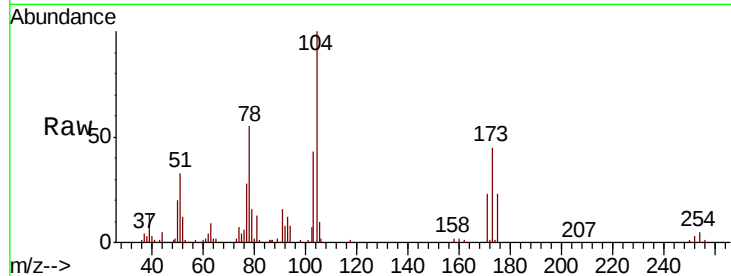
#71
Bromoform
Concen: 19.016 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.1	23.4	70.0
254	10.4	5.8	8.8

Manual Integrations
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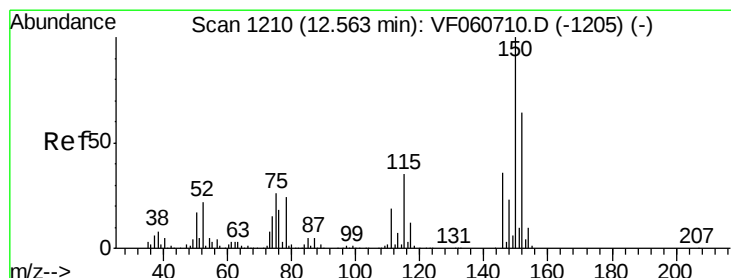
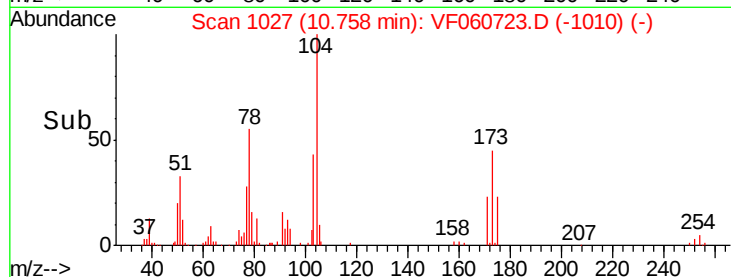
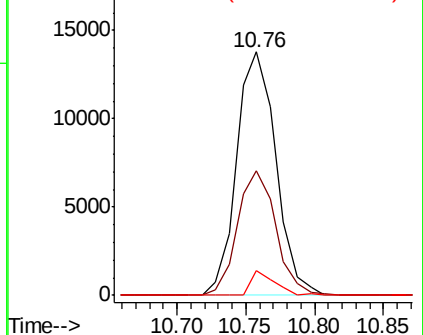


Abundance

Ion 173.00 (172.70 to 173.70): V

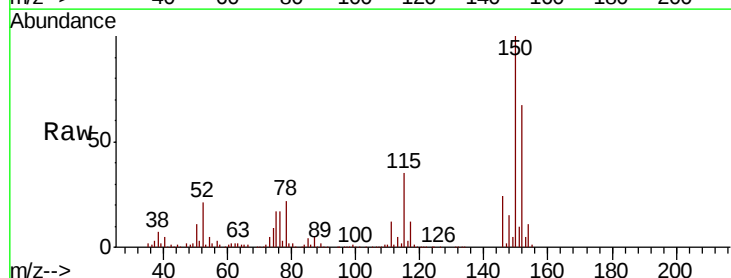
Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.2	27.9	83.7
150	150.3	0.0	316.4

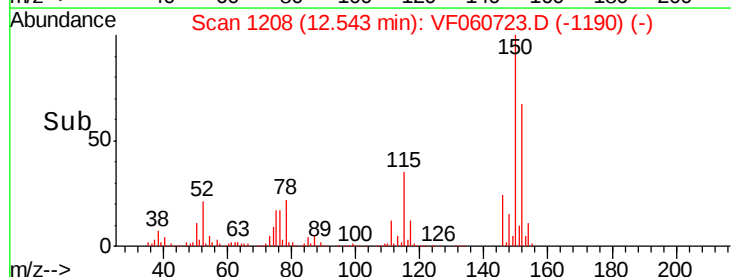
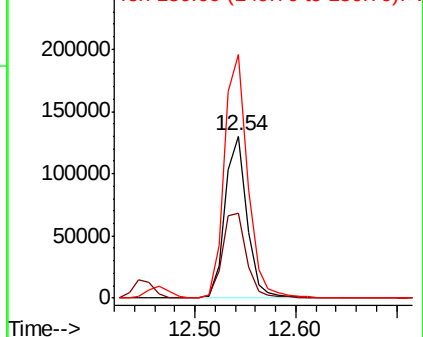


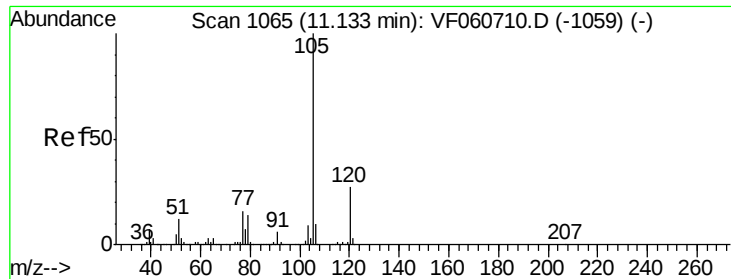
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.823 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion:105 Resp: 364024

Ion Ratio Lower Upper

105 100

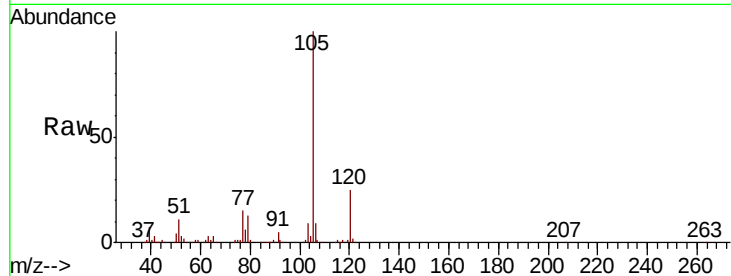
120 24.5 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

100000

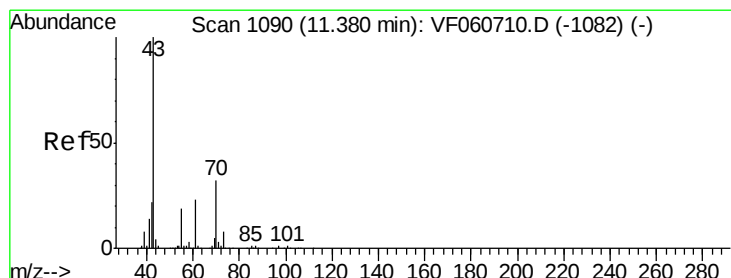
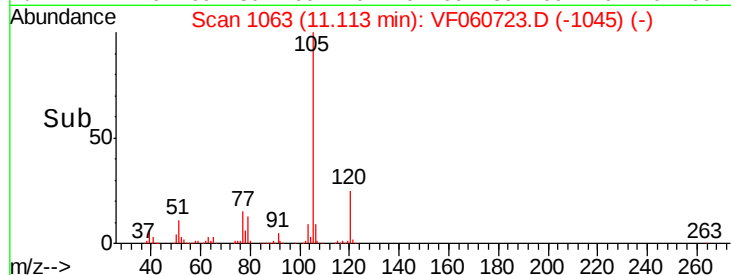
50000

0

11.00

11.20

Time-->



#74

N-ethyl acetate

Concen: 23.904 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion: 43 Resp: 86794

Ion Ratio Lower Upper

43 100

70 33.2 25.5 38.3

55 19.3 14.9 22.3

61 26.1 18.6 27.8

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

80000

60000

40000

20000

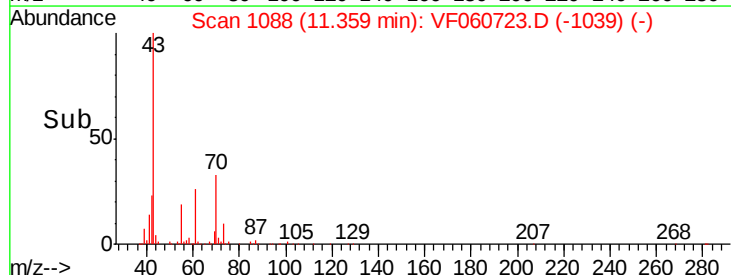
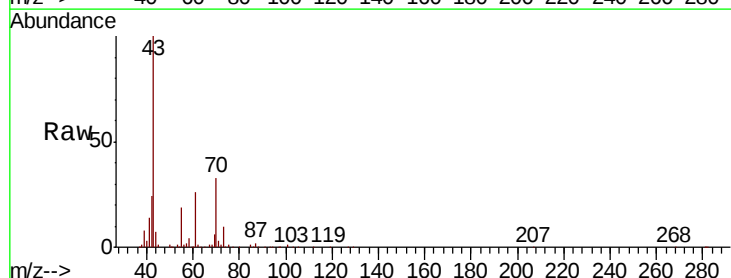
0

11.30

11.40

11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.760 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

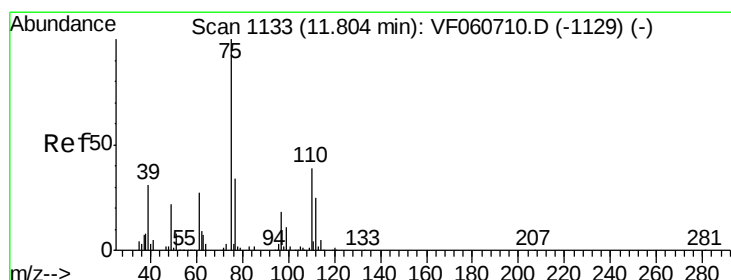
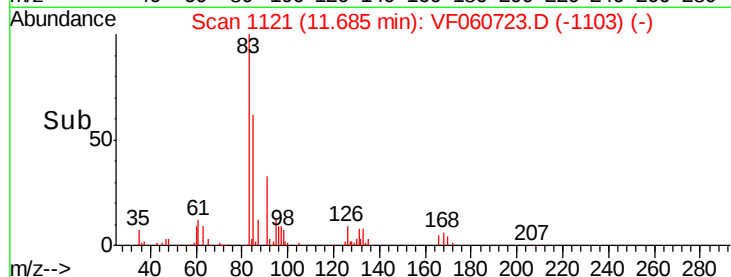
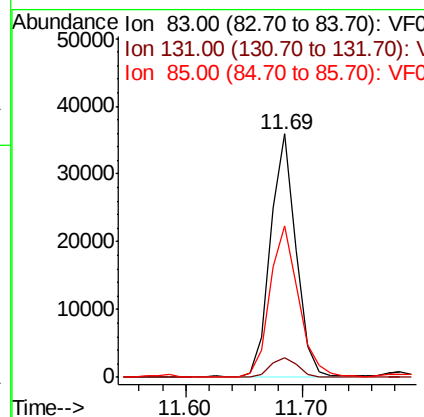
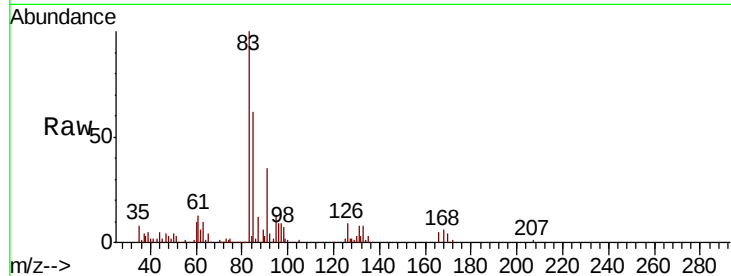
ClientSampleId :

VF1114SBS01

Tot Ion:	83	Resp:	54743
Ion Ratio	Lower	Upper	
83	100		
131	8.1	4.2	12.4
85	62.0	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.150 ug/l

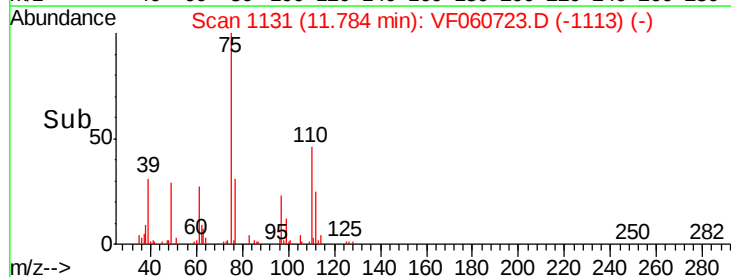
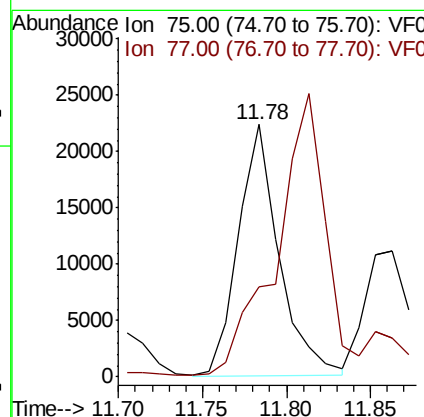
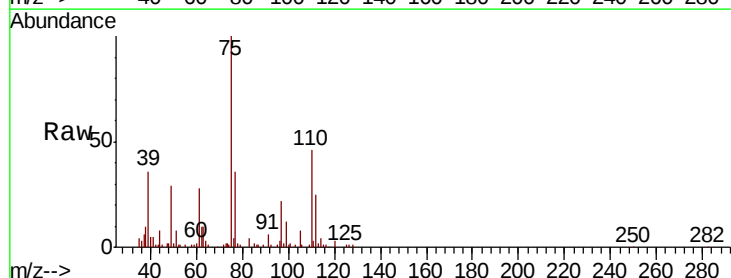
RT: 11.78 min Scan# 1131

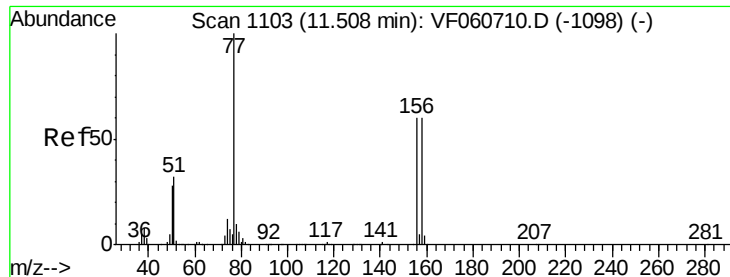
Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Tgt Ion:	75	Resp:	37504
Ion Ratio	Lower	Upper	
75	100		
77	35.5	17.0	51.0





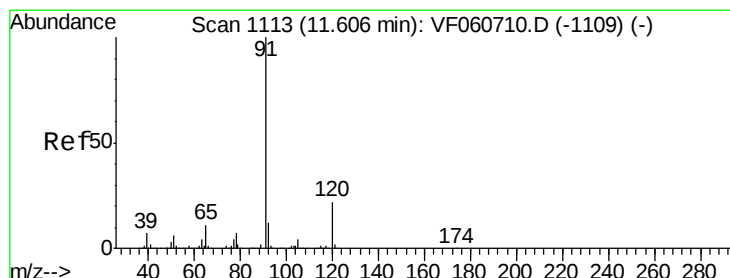
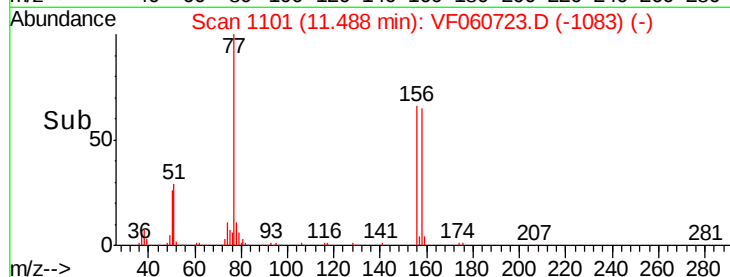
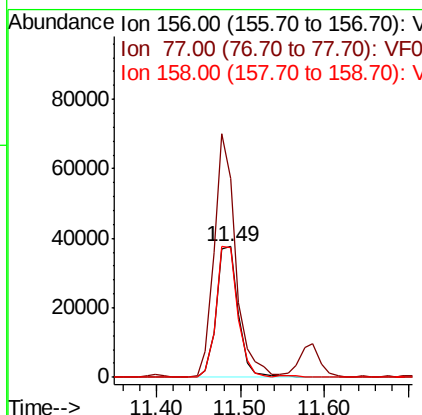
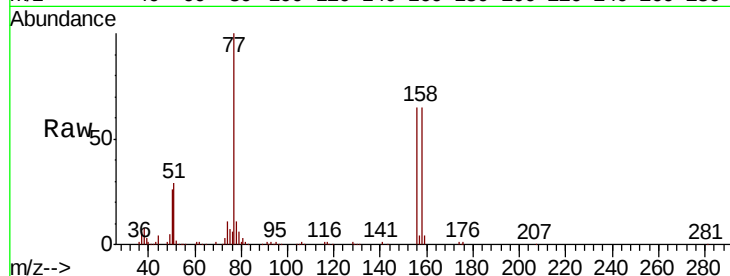
#77
Bromobenzene
Concen: 20.625 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	152.9	83.0	248.9
158	99.7	49.6	149.0

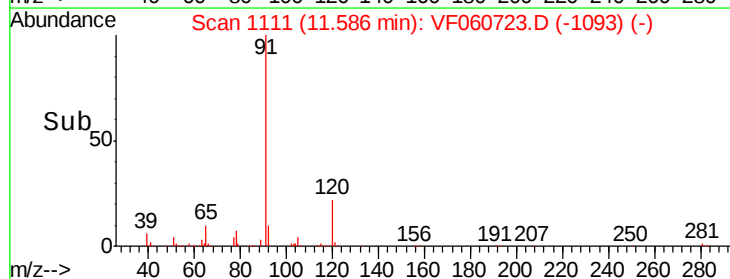
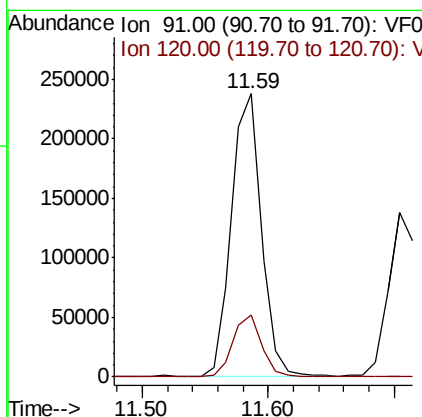
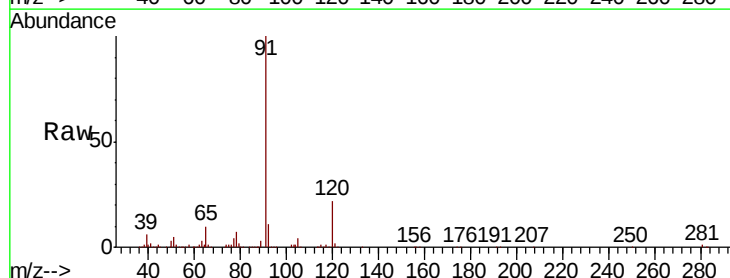
Manual Integrations
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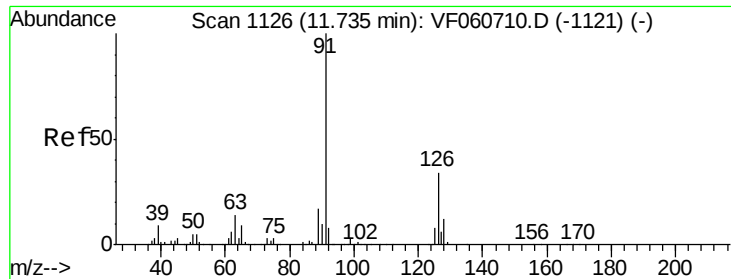
MMDadoda
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#78
n-propylbenzene
Concen: 20.875 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.5





#79

2-Chlorotoluene

Concen: 20.663 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBSD01

Tot Ion: 91 Resp: 223406

Ion Ratio Lower Upper

91 100

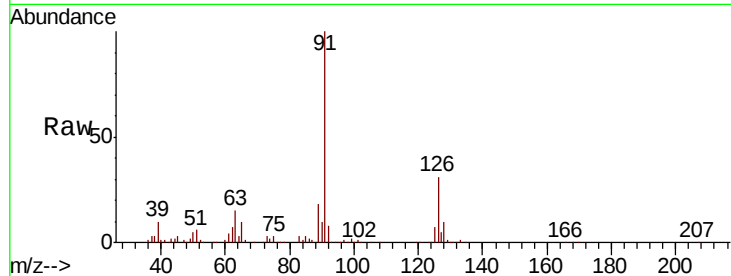
126 31.0 16.8 50.4

Manual Integrations

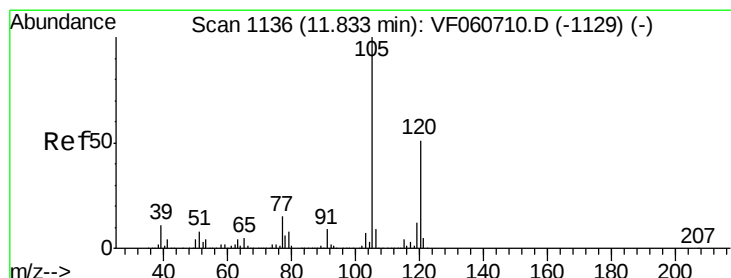
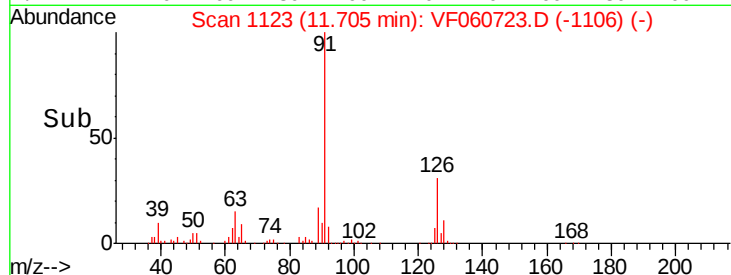
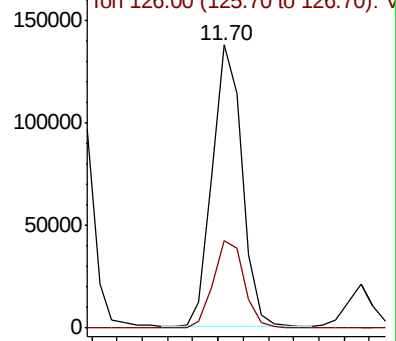
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Abundance Ion 91.00 (90.70 to 91.70): VF060710.D (-1121) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.599 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF060723.D

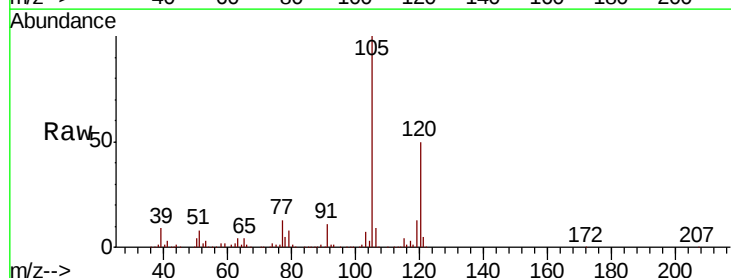
Acq: 14 Nov 2018 14:09

Tgt Ion: 105 Resp: 286173

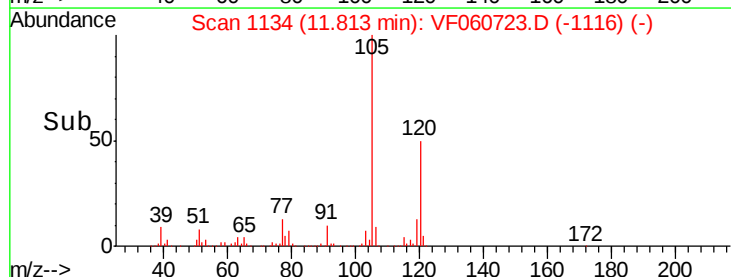
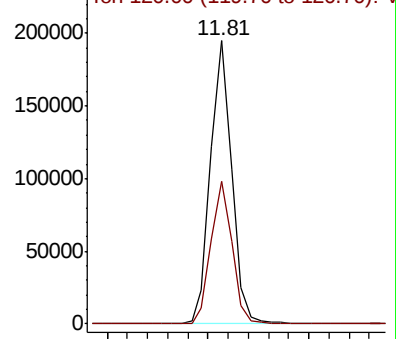
Ion Ratio Lower Upper

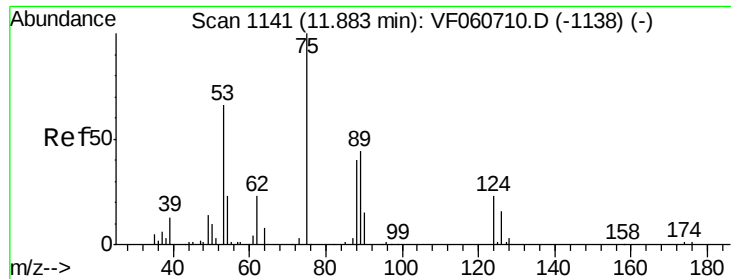
105 100

120 50.2 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VF060710.D (-1129) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.777 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF060723.D

Acq: 14 Nov 2018 14:09

Instrument :

MSVOA_F

ClientSampleId :

VF1114SBS01

Tot Ion: 75 Resp: 19029

Ion Ratio Lower Upper

75 100

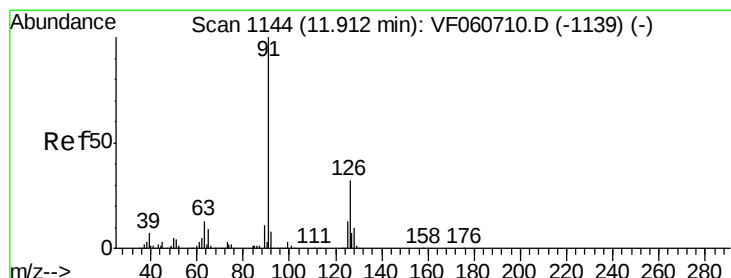
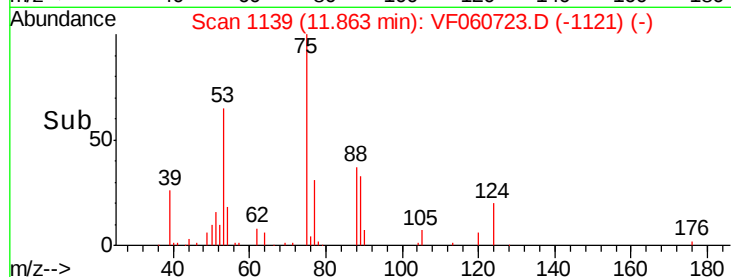
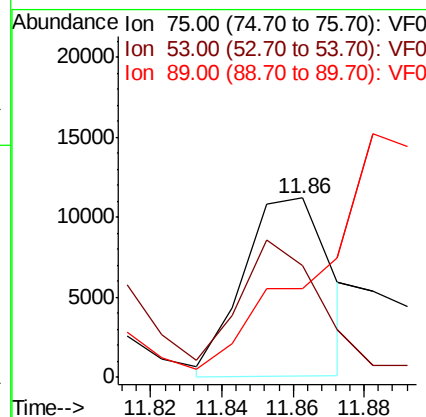
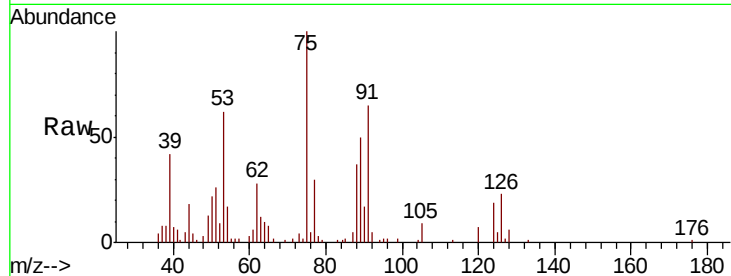
53 62.0 57.0 85.4

89 49.7 37.8 56.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.226 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VF060723.D

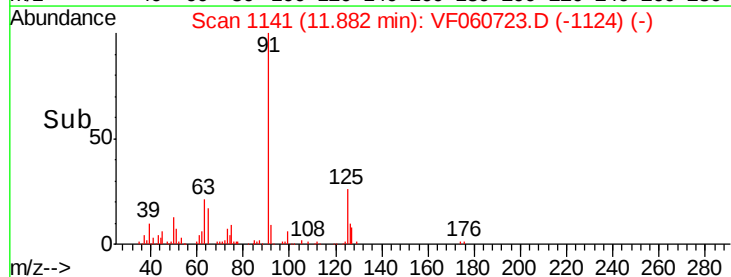
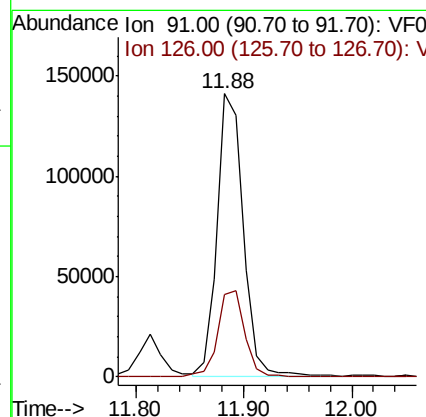
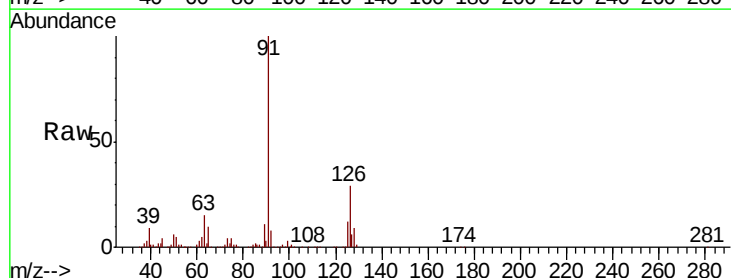
Acq: 14 Nov 2018 14:09

Tgt Ion: 91 Resp: 235103

Ion Ratio Lower Upper

91 100

126 29.2 16.0 47.9





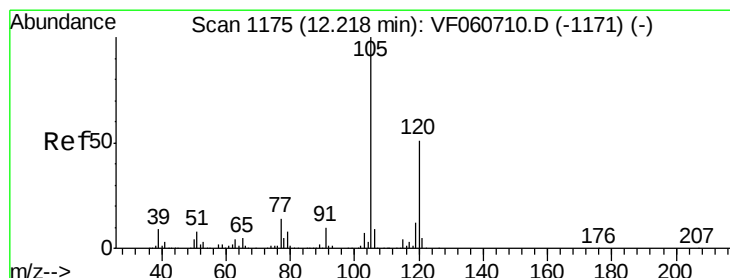
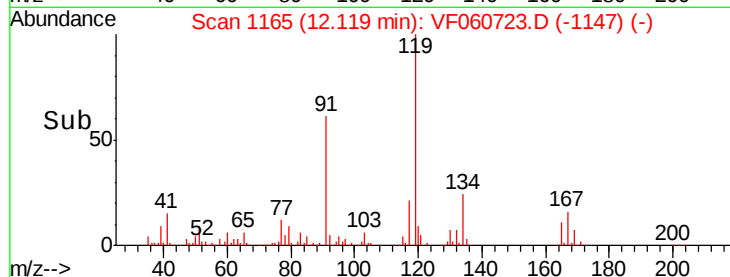
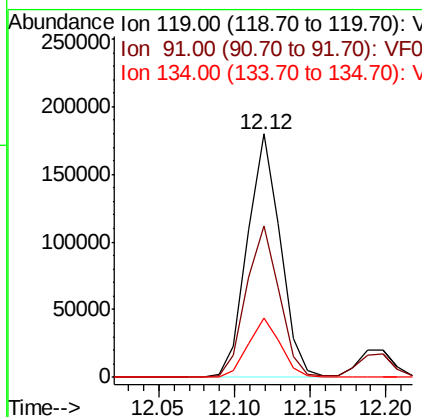
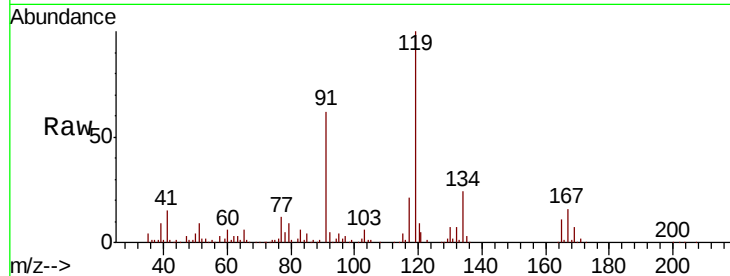
#83
tert-Butylbenzene
Concen: 20.484 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	275411		
91	62.1		31.4	94.3
134	24.1		12.8	38.4

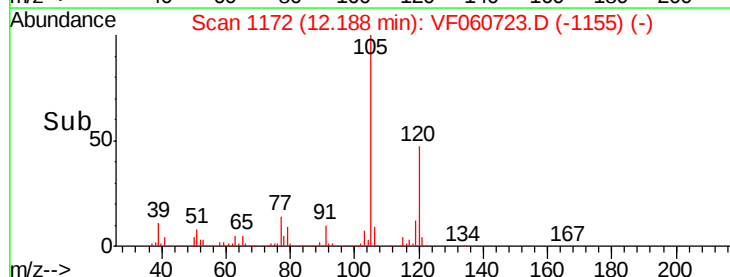
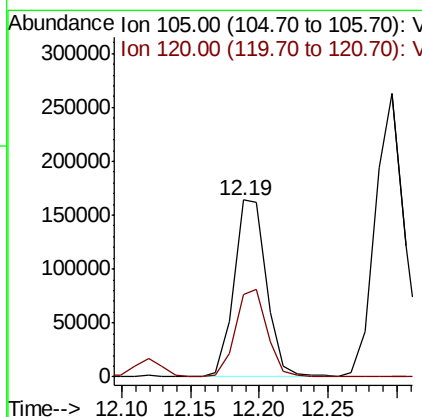
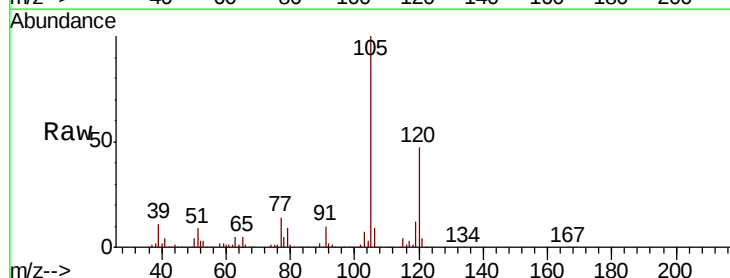
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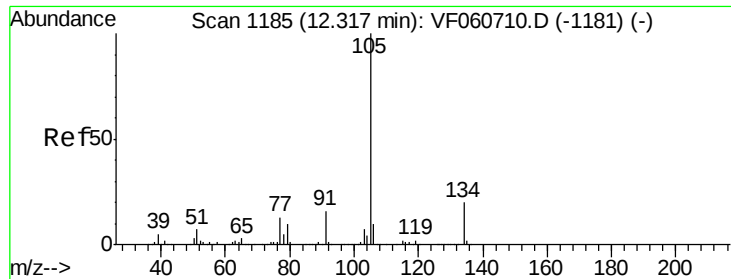
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#84
1,2,4-Trimethylbenzene
Concen: 20.646 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.03 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	270378		
120	46.7		25.5	76.5





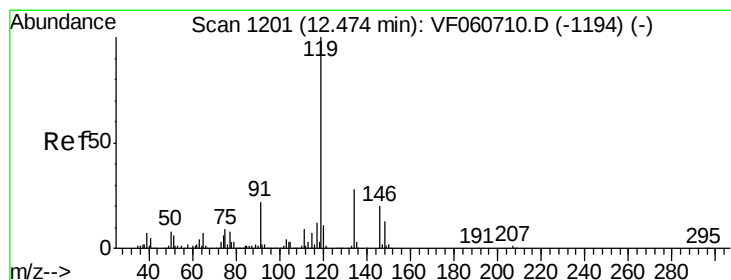
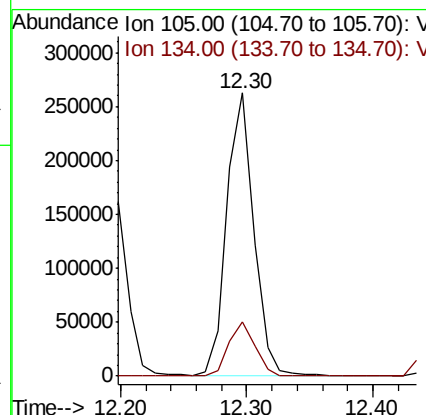
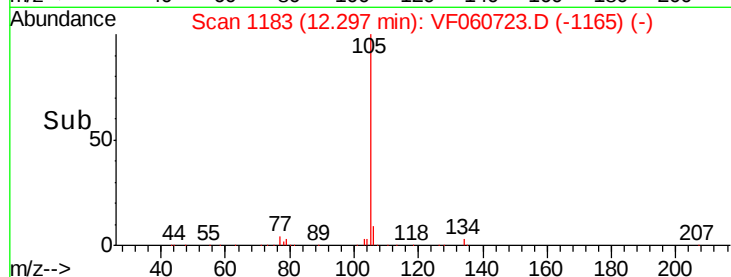
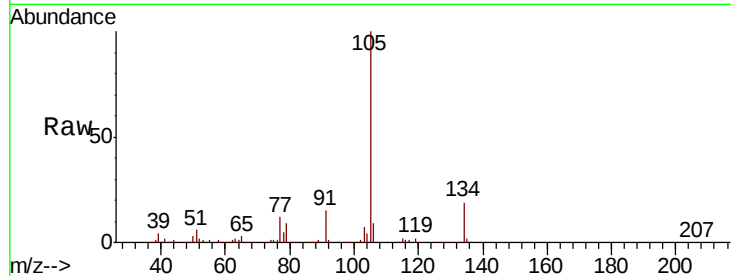
#85
 sec-Butylbenzene
 Concen: 21.363 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	389630		
134	19.1	10.1	30.3	

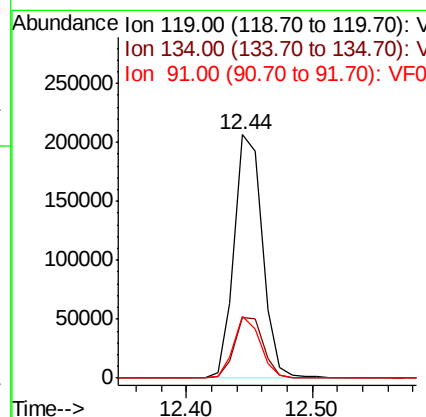
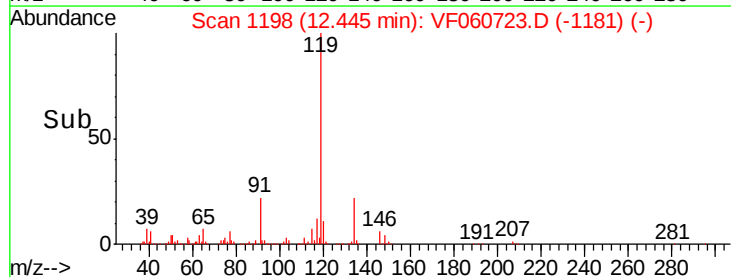
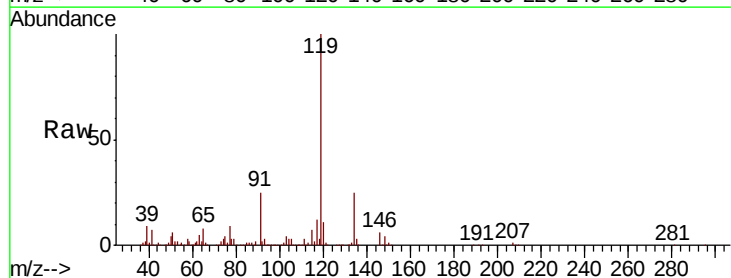
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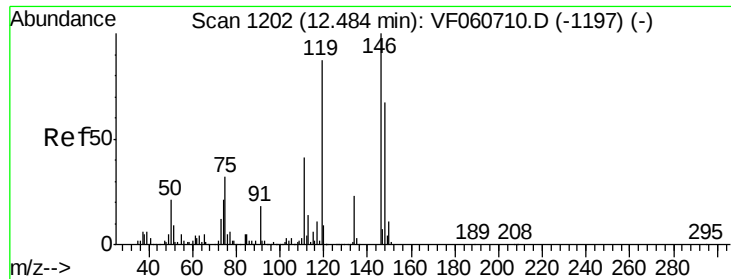
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#86
 p-Isopropyltoluene
 Concen: 20.969 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.03 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	319407		
134	24.7	13.9	41.7	
91	25.5	11.3	33.9	





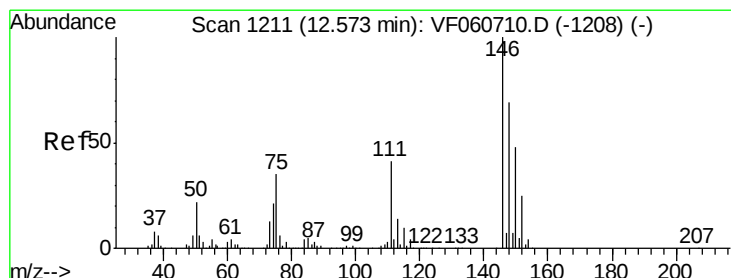
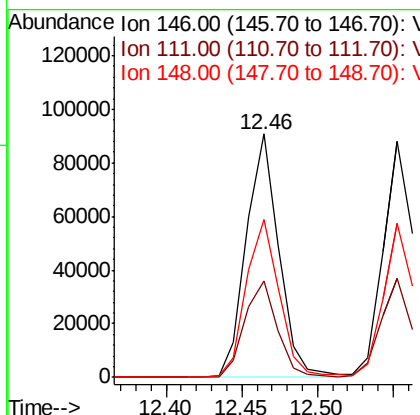
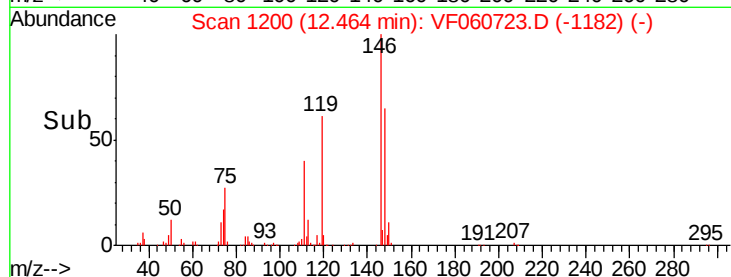
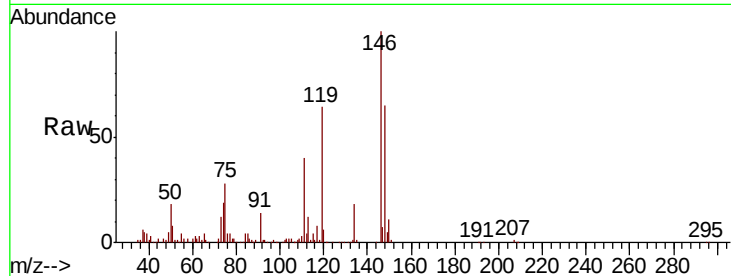
#87
 1,3-Dichlorobenzene
 Concen: 20.788 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.3	60.8
148	64.7	33.3	99.9

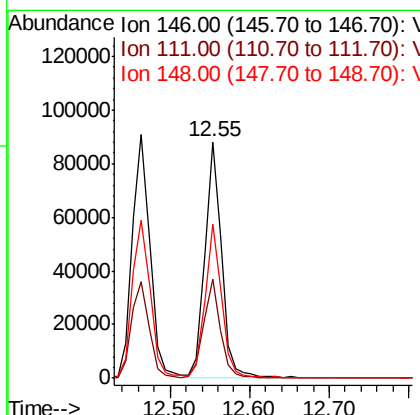
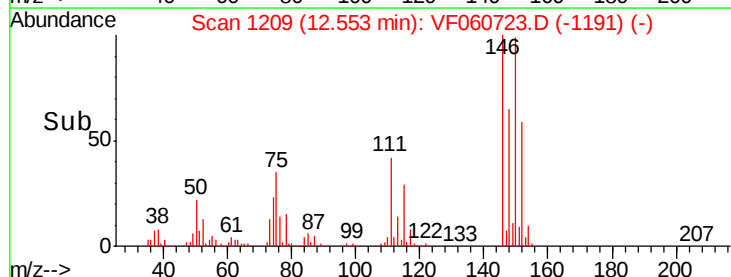
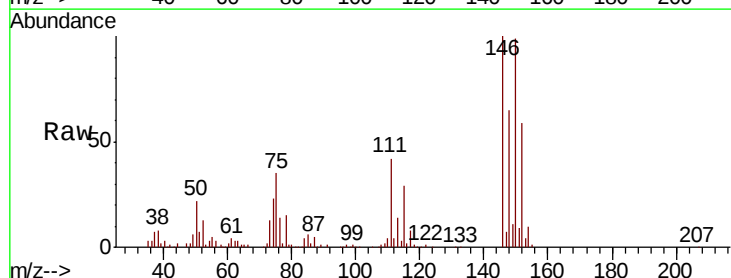
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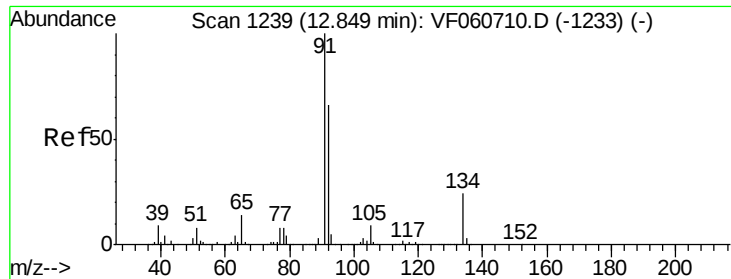
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#88
 1,4-Dichlorobenzene
 Concen: 20.423 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.6	61.9
148	65.3	34.7	104.1





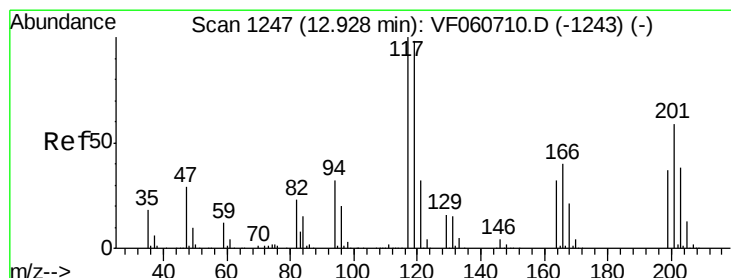
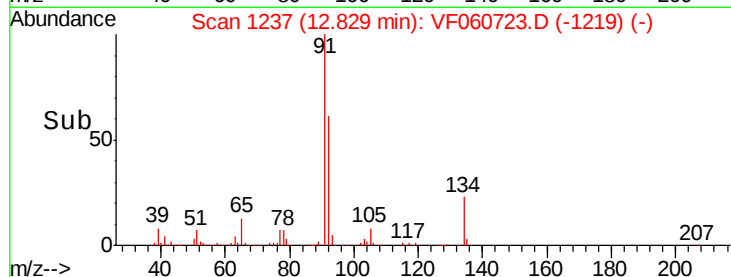
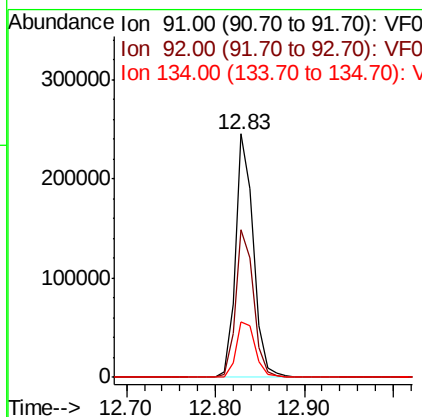
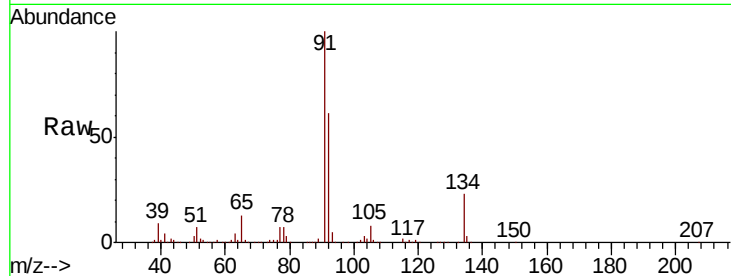
#89
n-Butylbenzene
Concen: 22.234 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	60.7	33.1	99.2	
134	22.8	11.9	35.9	

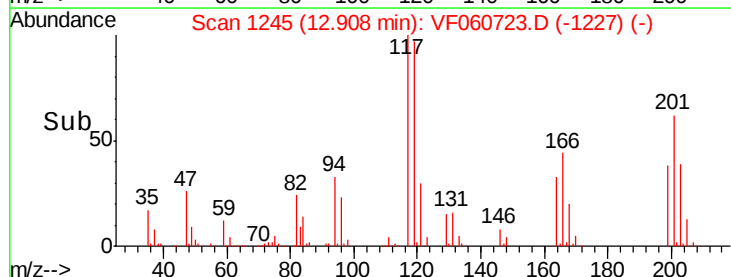
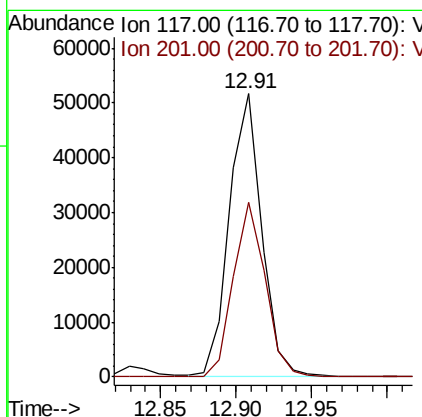
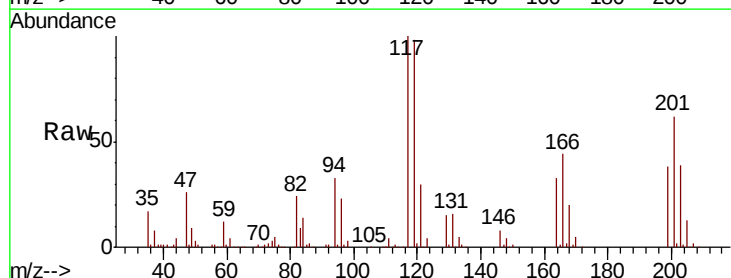
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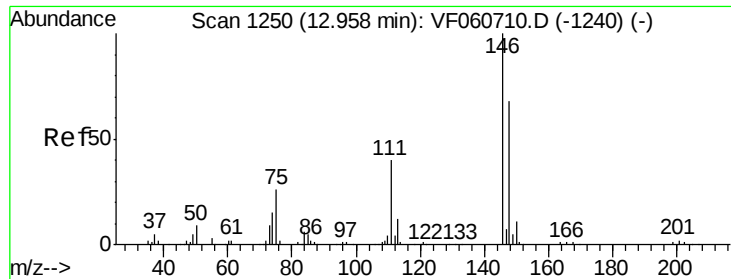
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#90
Hexachloroethane
Concen: 20.752 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	61.7	29.4	88.3	





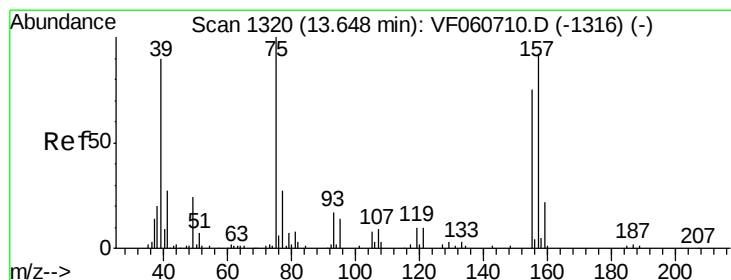
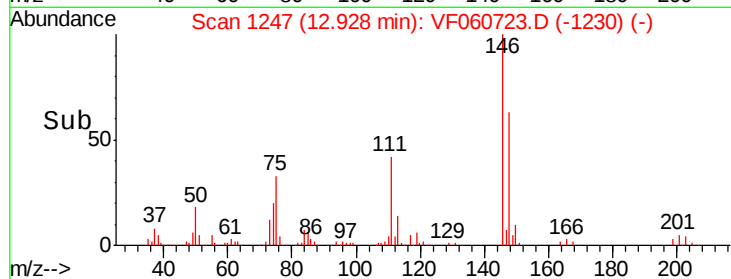
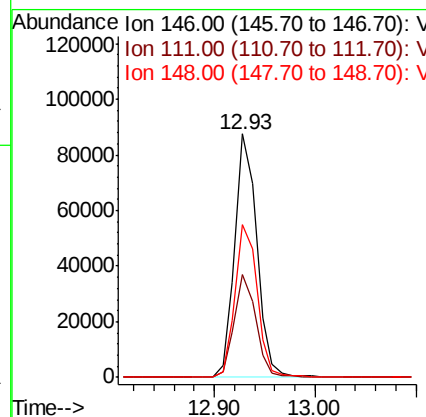
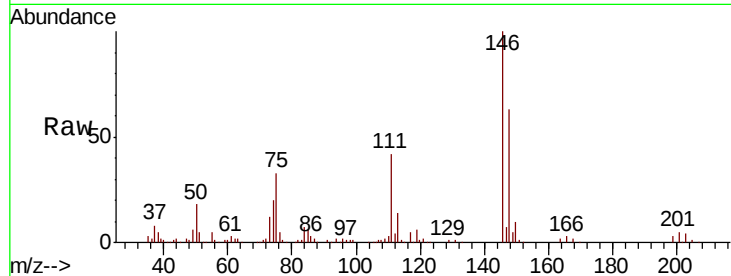
#91
 1,2-Dichlorobenzene
 Concen: 21.545 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.03 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.3	60.8
148	62.6	34.1	102.3

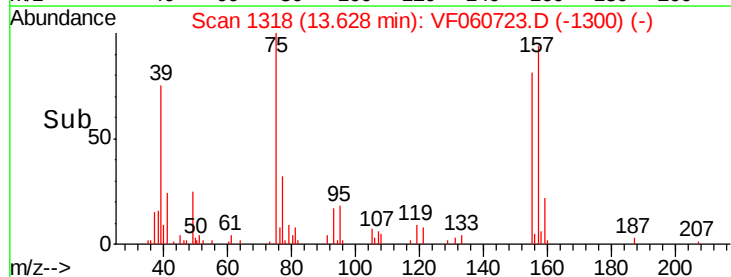
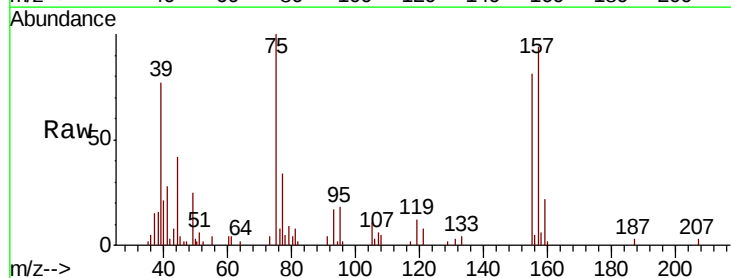
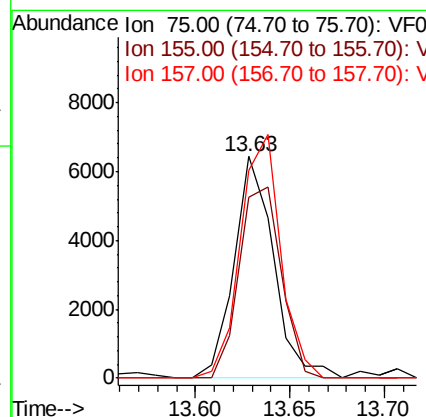
Manual Integrations
 APPROVED

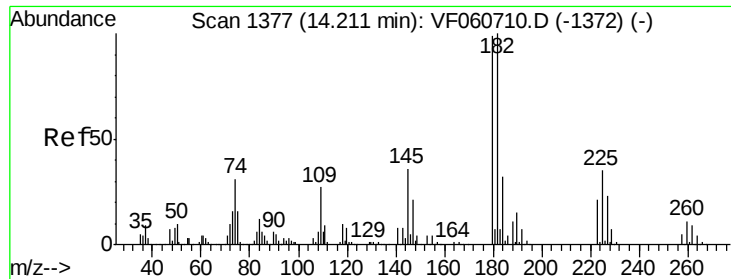
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.756 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.4	112.2
157	93.8	46.0	138.0





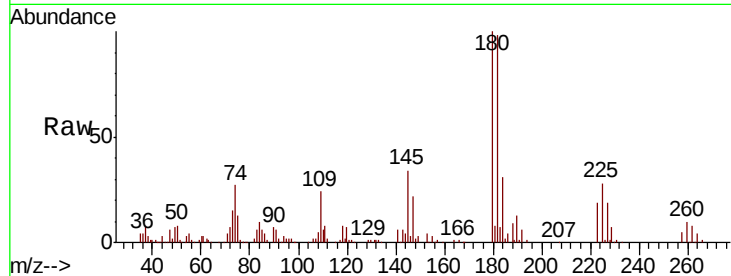
#93
 1,2,4-Trichlorobenzene
 Concen: 20.833 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1114SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	50.3	151.0
145	34.4	18.3	54.9

Manual Integrations
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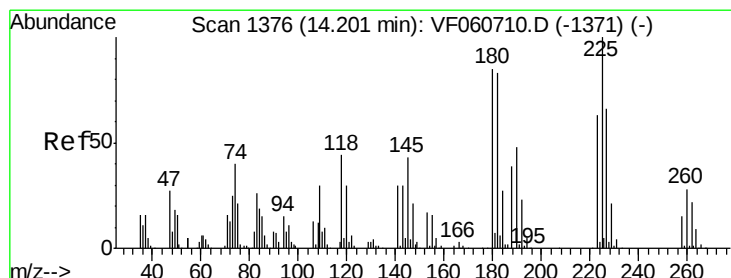
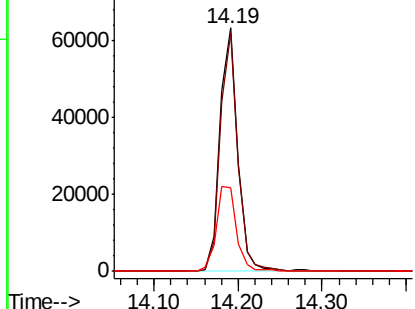
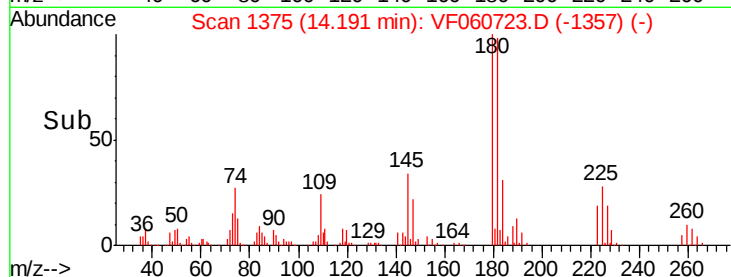


Abundance

Ion 180.00 (179.70 to 180.70): V

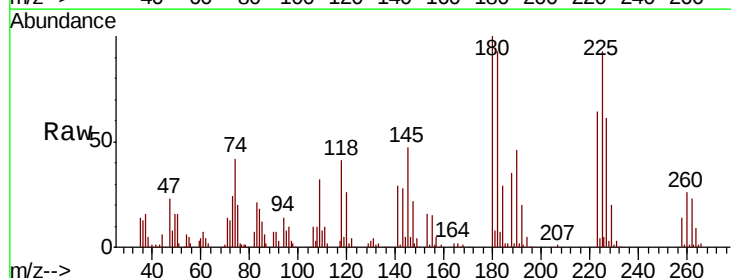
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 20.466 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF060723.D
 Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.8	31.5	94.5
227	65.2	33.0	99.0

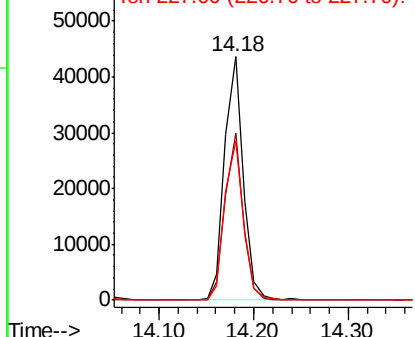
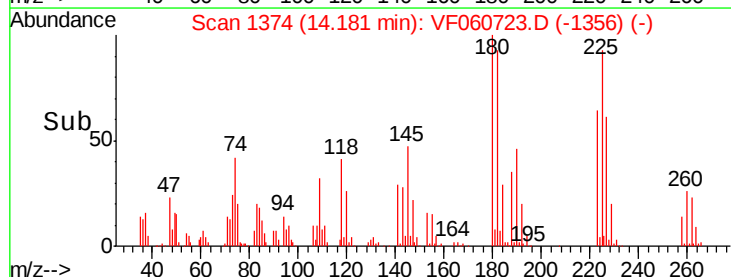


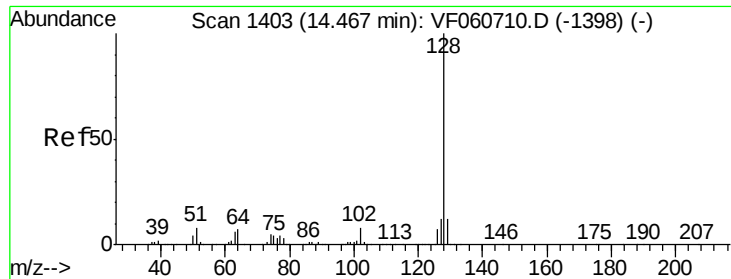
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





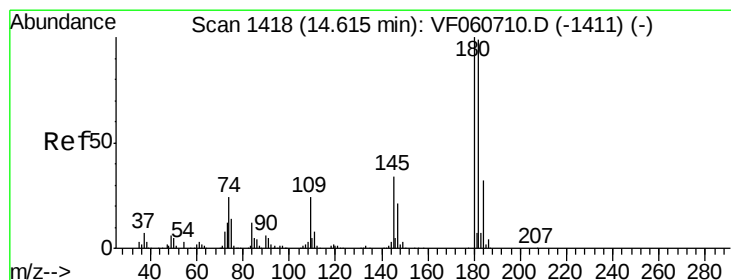
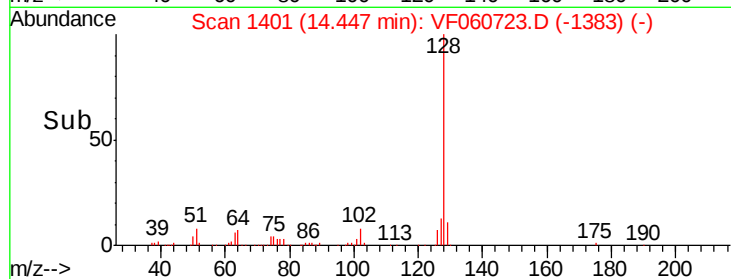
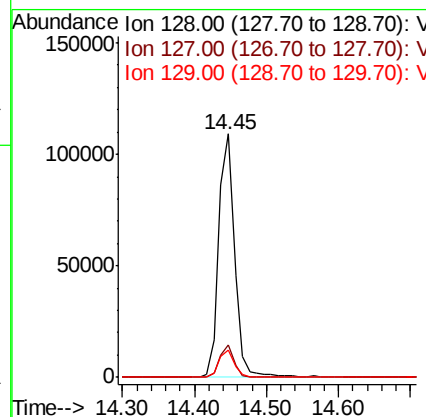
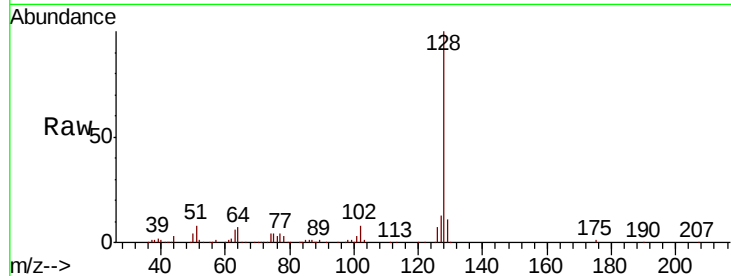
#95
Naphthalene
Concen: 20.337 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Instrument :
MSVOA_F
ClientSampleId :
VF1114SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.8	14.6
129	11.3	9.3	13.9

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.656 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF060723.D
Acq: 14 Nov 2018 14:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	49.6	149.0
145	32.0	16.9	50.7

