

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110218\
 Data File : VF060558.D
 Acq On : 2 Nov 2018 12:01
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 3:55:34 PM

Quant Time: Nov 03 03:50:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 04:25:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	278074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	449229	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	405362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	221865	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	52928	13.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	26.12%	
35) Dibromofluoromethane	4.11	113	67812	16.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.16%	
50) Toluene-d8	7.56	98	210070	20.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.38%	
62) 4-Bromofluorobenzene	11.42	95	95739	20.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	77909	15.048	ug/l	99
3) Chloromethane	1.10	50	54632	17.507	ug/l	98
4) Vinyl Chloride	1.14	62	49614	15.436	ug/l	94
5) Bromomethane	1.32	94	23502	9.644	ug/l	91
6) Chloroethane	1.37	64	17053	10.412	ug/l	95
7) Trichlorofluoromethane	1.49	101	84183m	11.239	ug/l	
8) Diethyl Ether	1.63	74	15978	16.421	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	1.82	101	48952	13.129	ug/l	98
10) Methyl Iodide	1.89	142	80745	13.880	ug/l	99
11) Tert butyl alcohol	2.58	59	16076	82.689	ug/l #	75
12) 1,1-Dichloroethene	1.78	96	37916	12.629	ug/l	91
13) Acrolein	2.00	56	12179	73.031	ug/l	91
14) Allyl chloride	2.10	41	71664	14.866	ug/l	95
15) Acrylonitrile	2.94	53	32727	78.365	ug/l	93
16) Acetone	2.24	43	68895	78.075	ug/l	100
17) Carbon Disulfide	1.84	76	115850	13.837	ug/l	99
18) Methyl Acetate	2.35	43	19624	15.286	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	95046	14.427	ug/l	92
20) Methylene Chloride	2.19	84	45289m	14.419	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	43094	14.018	ug/l	89
22) Diisopropyl ether	2.81	45	140549	16.092	ug/l #	95
23) Vinyl Acetate	3.19	43	437473	127.079	ug/l	99
24) 1,1-Dichloroethane	2.88	63	78486	12.557	ug/l	97
25) 2-Butanone	4.34	43	164706	128.043	ug/l	98
26) 2,2-Dichloropropane	3.61	77	59919	15.527	ug/l	100
27) cis-1,2-Dichloroethene	3.48	96	77007	19.842	ug/l	98
28) Bromochloromethane	3.72	49	51620	21.758	ug/l	99
29) Tetrahydrofuran	4.08	42	52864	132.534	ug/l	98
30) Chloroform	3.86	83	128700	16.162	ug/l	92
31) Cyclohexane	3.69	56	116494	24.180	ug/l	97
32) 1,1,1-Trichloroethane	4.10	97	93859	14.569	ug/l	97
36) 1,1-Dichloropropene	4.28	75	106094	19.266	ug/l	98
37) Ethyl Acetate	4.11	43	52596	27.969	ug/l	97
38) Carbon Tetrachloride	4.00	117	87972	13.982	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	125751	21.765	ug/l	97
40) Benzene	4.63	78	255086	22.664	ug/l	97
41) Methacrylonitrile	4.75	41	29030	26.954	ug/l #	88
42) 1,2-Dichloroethane	4.95	62	69927	14.411	ug/l	97
43) Isopropyl Acetate	6.96	43	62450	27.835	ug/l #	94
44) Trichloroethene	5.51	130	74936	20.714	ug/l	96
45) 1,2-Dichloropropane	6.24	63	63712	22.659	ug/l	98
46) Dibromomethane	6.09	93	41395	19.514	ug/l	95
47) Bromodichloromethane	6.39	83	98010	18.236	ug/l	97
48) Methyl methacrylate	6.72	41	42524	28.044	ug/l	96
49) 1,4-Dioxane	6.71	88	8505	574.883	ug/l #	80
51) 4-Methyl-2-Pentanone	8.26	43	220100	136.100	ug/l	100
52) Toluene	7.63	92	165878	22.965	ug/l	96
53) t-1,3-Dichloropropene	8.28	75	87275	20.632	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	106191	20.717	ug/l	93
55) 1,1,2-Trichloroethane	8.50	97	47732	22.540	ug/l	95
56) Ethyl methacrylate	8.63	69	62824	26.202	ug/l	94
57) 1,3-Dichloropropane	8.85	76	85538	23.847	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.63	63	23534	97.676	ug/l	100
59) 2-Hexanone	9.49	43	178301	152.218	ug/l	99
60) Dibromochloromethane	8.72	129	67815	20.130	ug/l	94
61) 1,2-Dibromoethane	8.99	107	50034	20.498	ug/l	100
64) Tetrachloroethene	8.15	164	67505	20.012	ug/l	97
65) Chlorobenzene	9.80	112	173106	21.355	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.94	131	69909	18.979	ug/l	98
67) Ethyl Benzene	9.91	91	308779	20.011	ug/l	99
68) m/p-Xylenes	10.14	106	237957	44.638	ug/l	96
69) o-Xylene	10.72	106	127941	21.400	ug/l	94
70) Styrene	10.80	104	191625	22.646	ug/l	98
71) Bromoform	10.78	173	37134	19.798	ug/l	99
73) Isopropylbenzene	11.13	105	370288	21.578	ug/l	97
74) N-amyl acetate	11.38	43	102154	28.416	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	68985	24.021	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	31841	16.149	ug/l	91
77) Bromobenzene	11.50	156	76501	20.371	ug/l	98
78) n-propylbenzene	11.60	91	425914	21.062	ug/l	100
79) 2-Chlorotoluene	11.72	91	242358	20.128	ug/l	99
80) 1,3,5-Trimethylbenzene	11.83	105	298106	20.364	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	25182m	26.159	ug/l	
82) 4-Chlorotoluene	11.90	91	253053	20.355	ug/l	97
83) tert-Butylbenzene	12.14	119	303513	21.101	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	286505	19.265	ug/l	95
85) sec-Butylbenzene	12.32	105	418322	20.748	ug/l	97
86) p-Isopropyltoluene	12.46	119	357382	21.615	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	159417	21.238	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	145509	20.513	ug/l	98
89) n-Butylbenzene	12.85	91	361251	20.840	ug/l	94
90) Hexachloroethane	12.93	117	89375	20.974	ug/l	93
91) 1,2-Dichlorobenzene	12.95	146	147560	20.960	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	11548	19.860	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	99914	19.179	ug/l	96
94) Hexachlorobutadiene	14.20	225	63958	17.542	ug/l	98
95) Naphthalene	14.47	128	190658	20.576	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	92386	18.682	ug/l	97

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

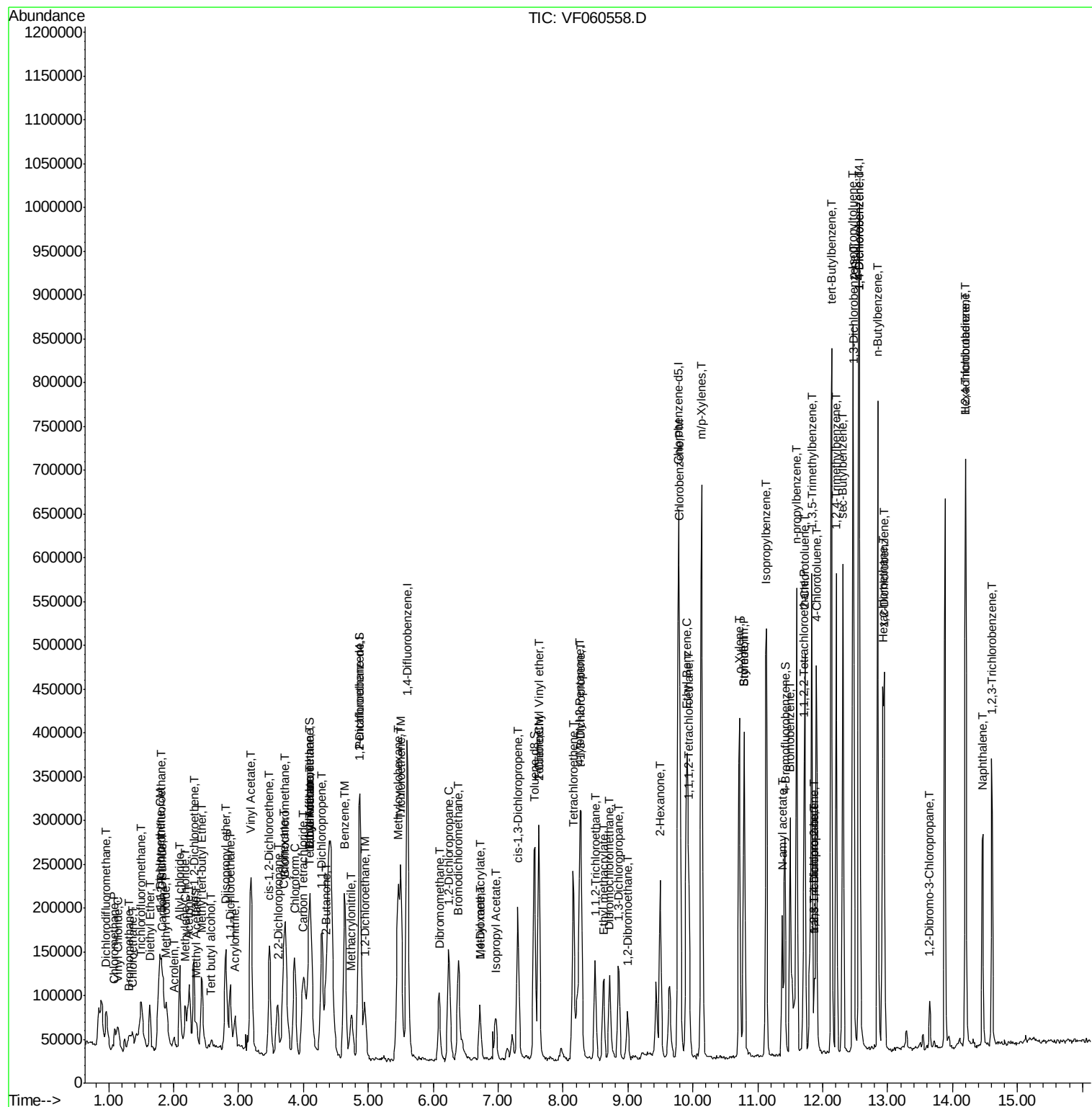
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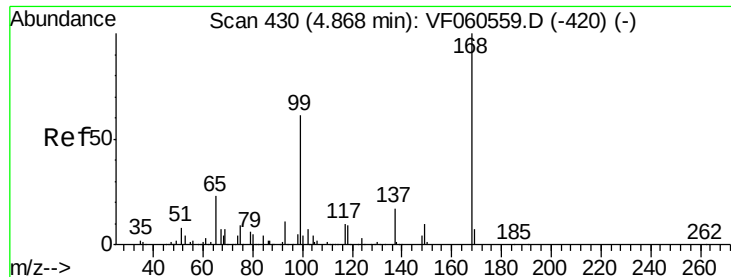
Instrument :
MSVOA_F
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 278074

Ion Ratio Lower Upper

168 100

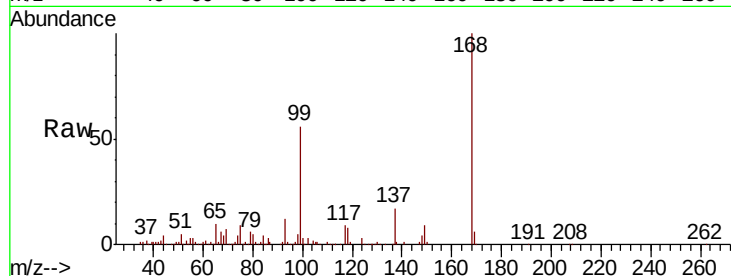
99 55.9 48.6 72.8

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

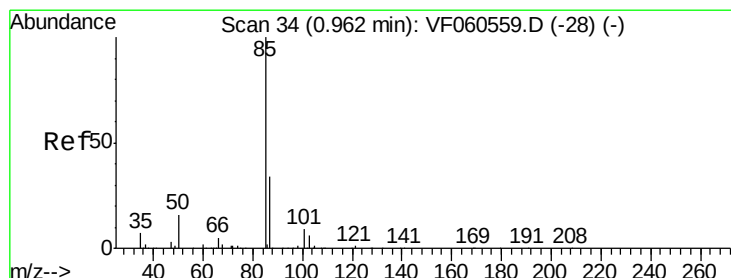
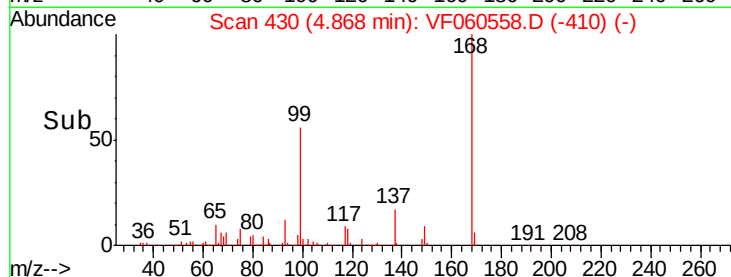
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 15.048 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060558.D

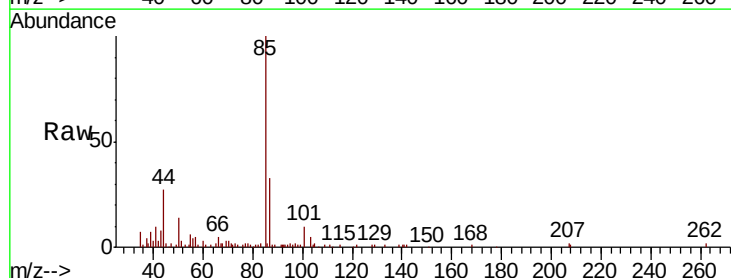
Acq: 2 Nov 2018 12:01

Tgt Ion: 85 Resp: 77909

Ion Ratio Lower Upper

85 100

87 33.0 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

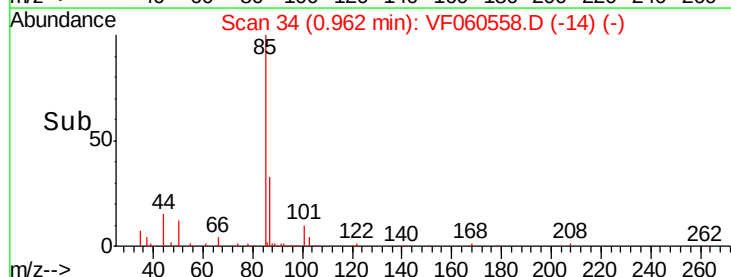
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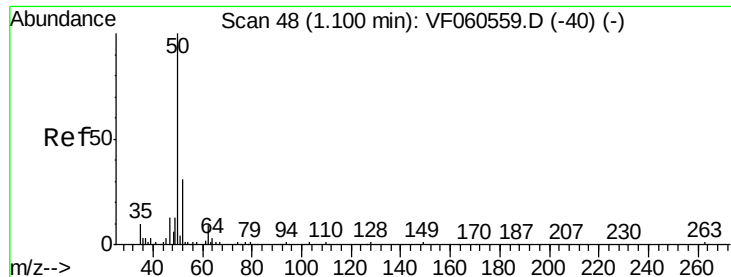
10000

5000

0

Time-->





#3

Chloromethane

Concen: 17.507 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 54632

Ion Ratio Lower Upper

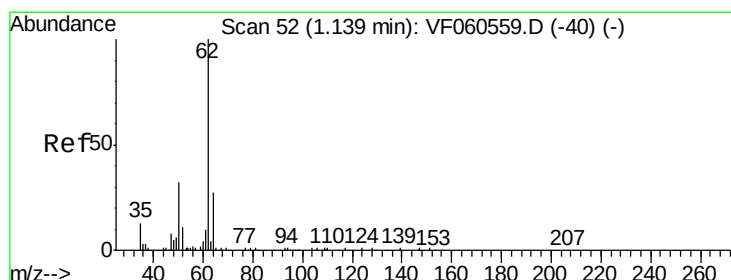
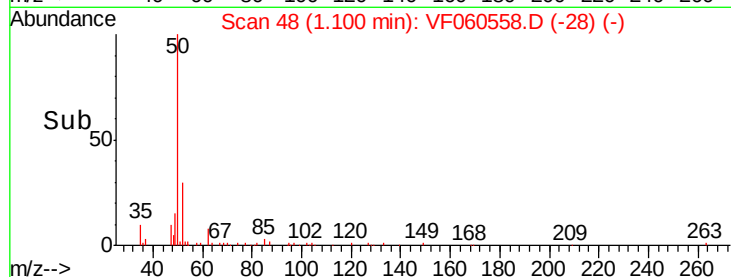
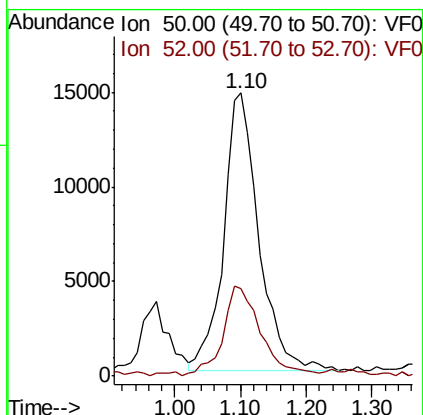
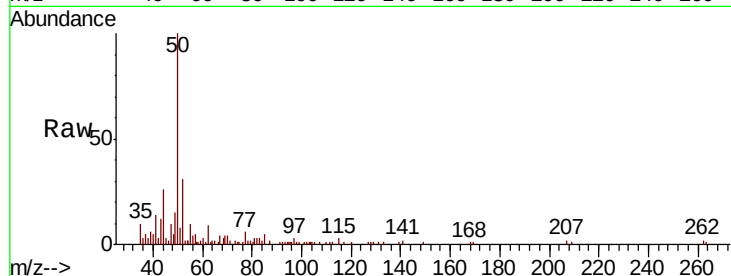
50 100

52 31.0 24.0 36.0

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#4

Vinyl Chloride

Concen: 15.436 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060558.D

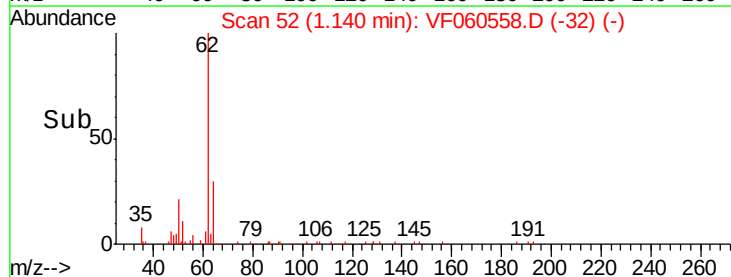
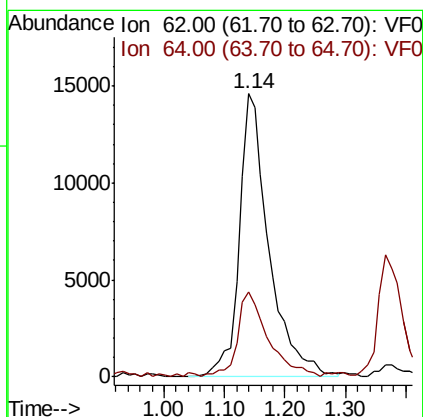
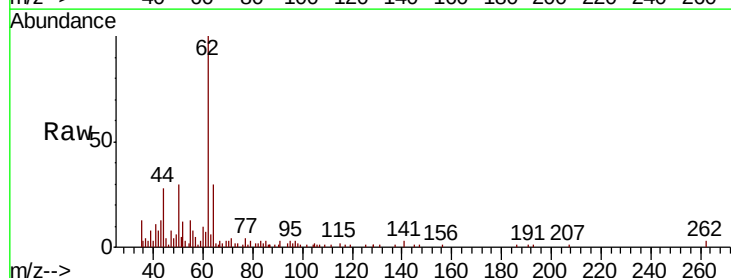
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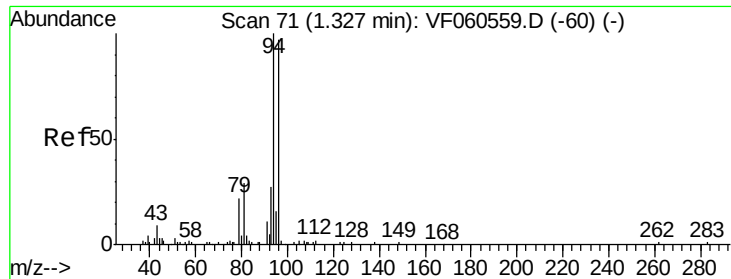
Tgt Ion: 62 Resp: 49614

Ion Ratio Lower Upper

62 100

64 30.1 21.8 32.6





#5

Bromomethane

Concen: 9.644 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 23502

Ion Ratio Lower Upper

94 100

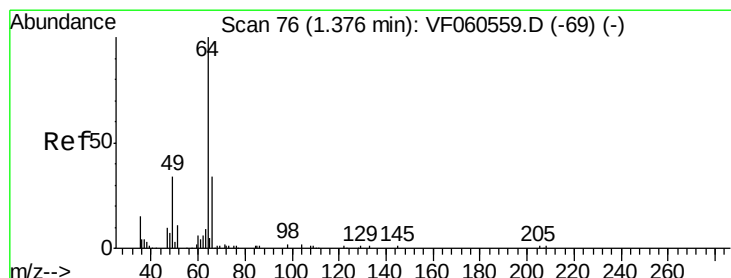
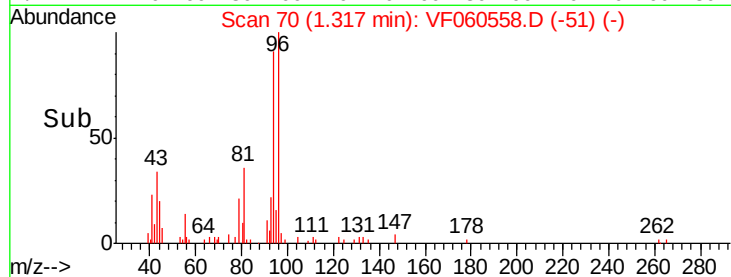
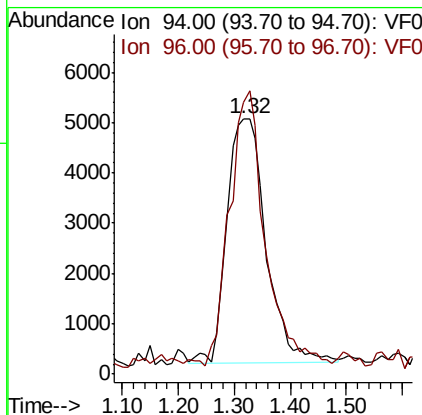
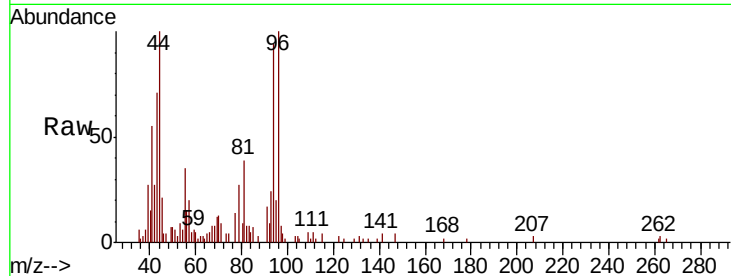
96 106.5 77.9 116.9

Manual Integrations

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#6

Chloroethane

Concen: 10.412 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060558.D

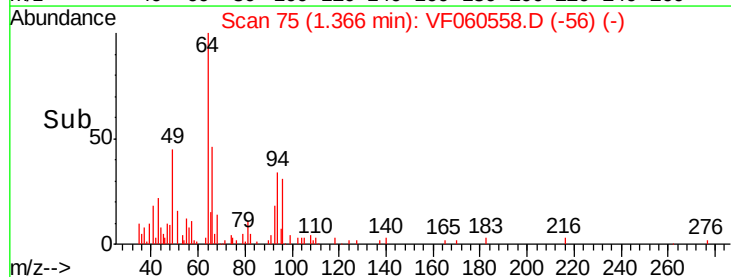
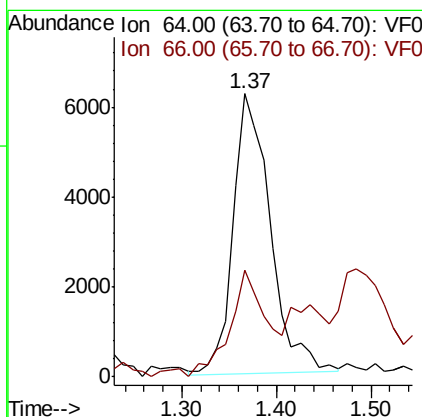
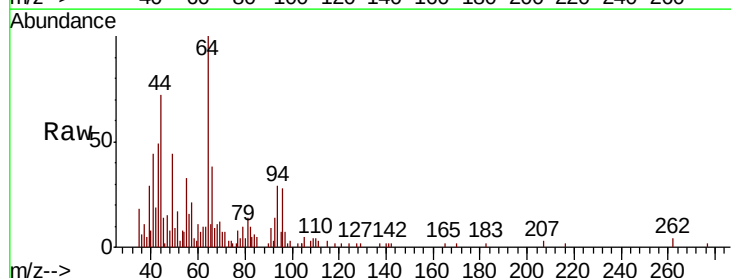
Acq: 2 Nov 2018 12:01

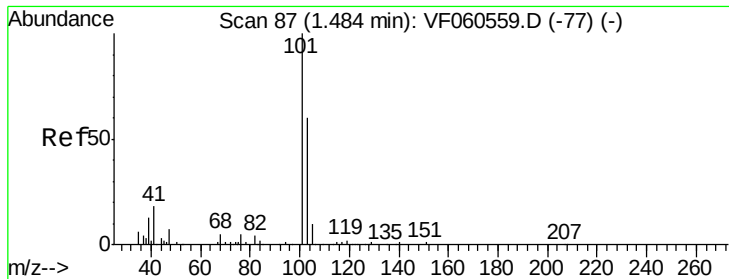
Tgt Ion: 64 Resp: 17053

Ion Ratio Lower Upper

64 100

66 37.5 27.8 41.8





#7

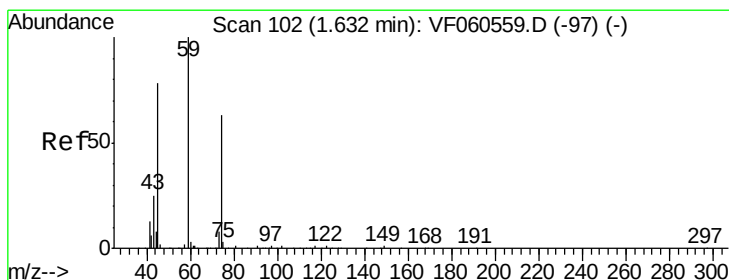
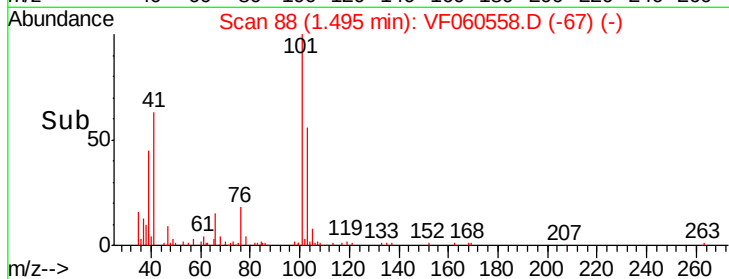
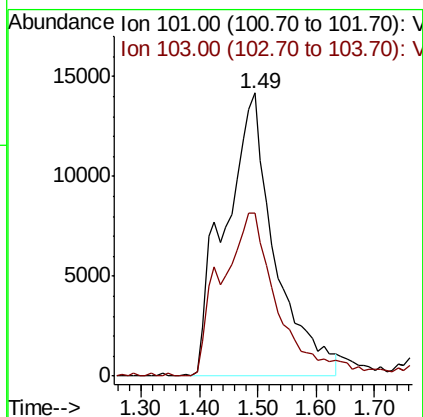
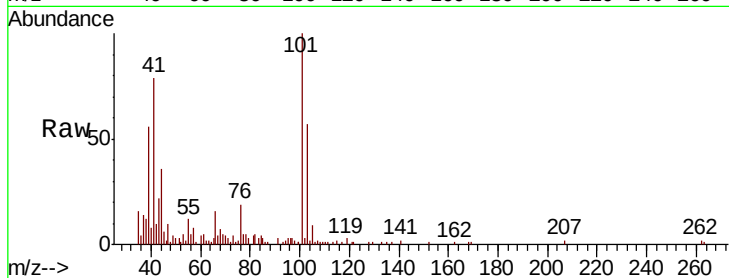
Trichlorofluoromethane
 Concen: 11.239 ug/l m
 RT: 1.49 min Scan# 88
 Delta R.T. 0.01 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	57.4	48.0	72.0

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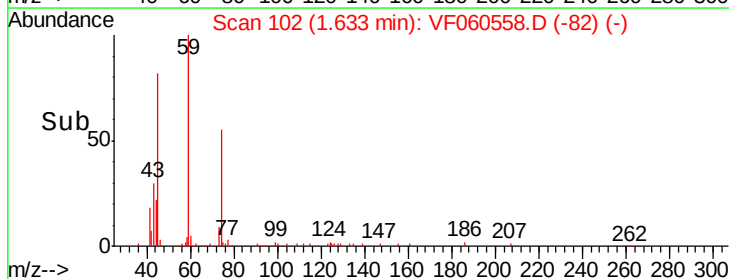
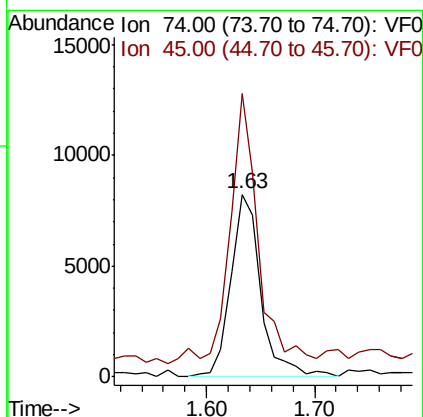
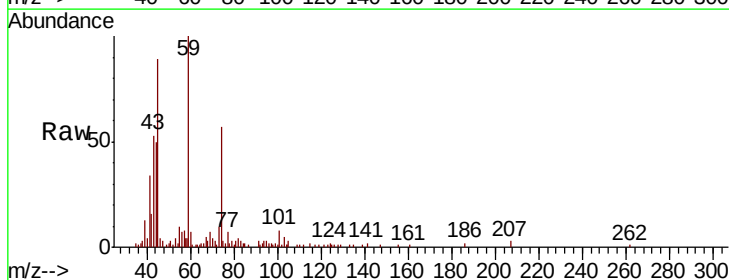
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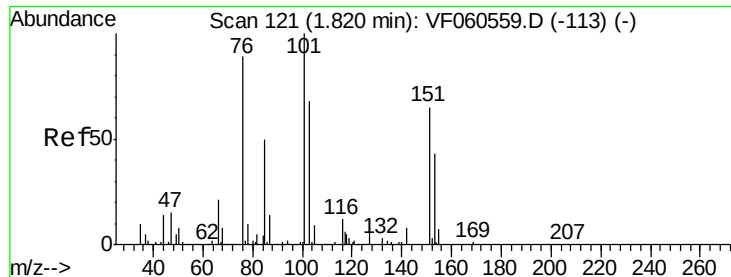


#8

Diethyl Ether
 Concen: 16.421 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	155.0	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 13.129 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF060558.D

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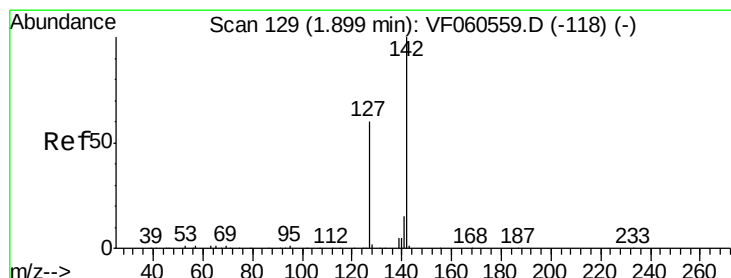
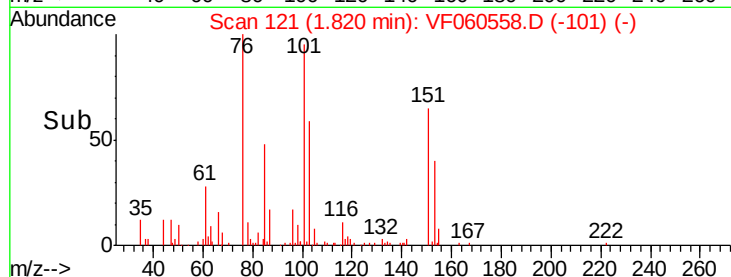
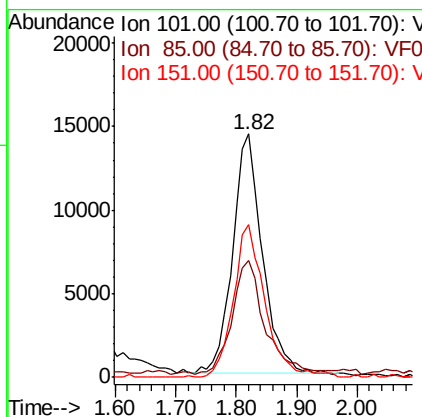
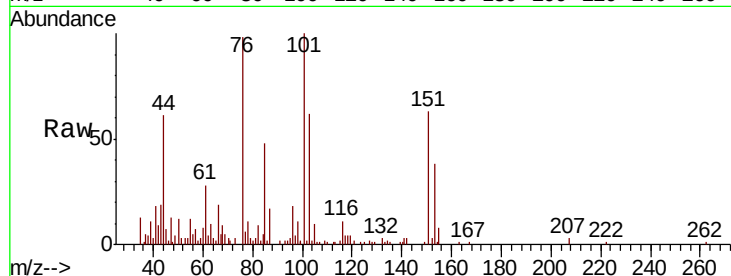
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	48952
Ion Ratio	Lower	Upper	
101	100		
85	48.2	39.8	59.6
151	62.5	50.8	76.2

Manual Integrations
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#10

Methyl Iodide

Concen: 13.880 ug/l

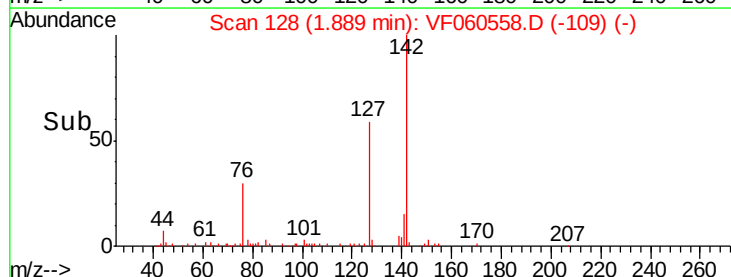
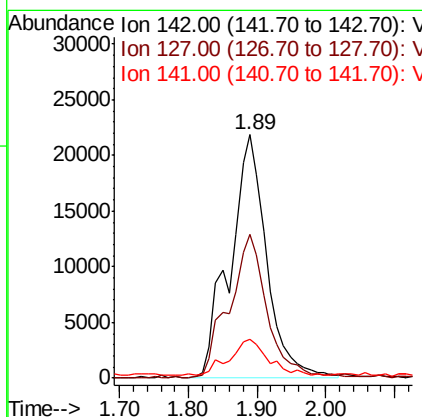
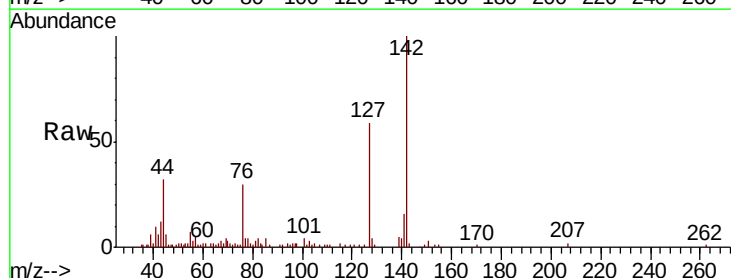
RT: 1.89 min Scan# 128

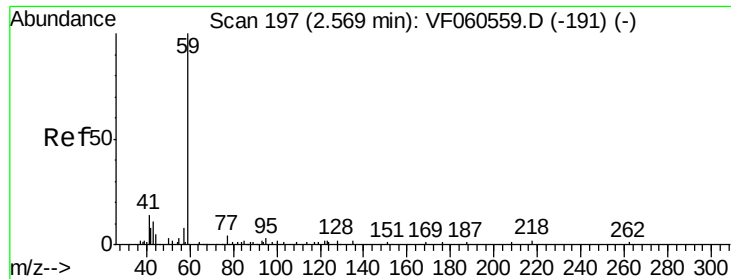
Delta R.T. -0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	142	Resp:	80745
Ion Ratio	Lower	Upper	
142	100		
127	59.2	47.8	71.6
141	16.1	12.7	19.1





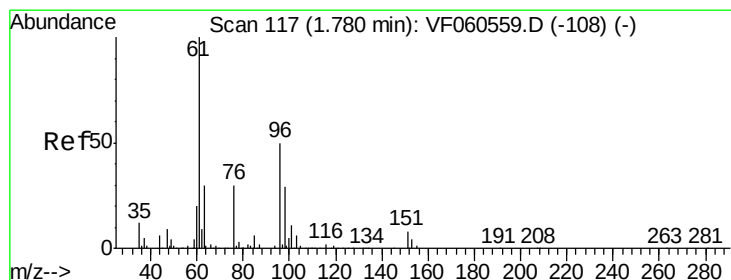
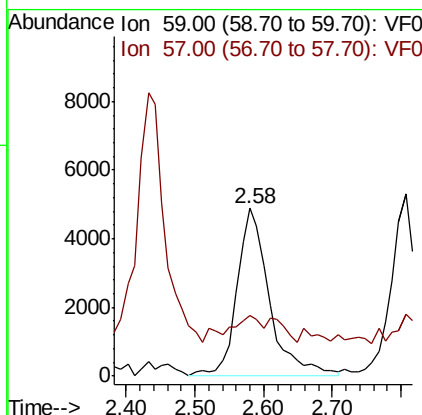
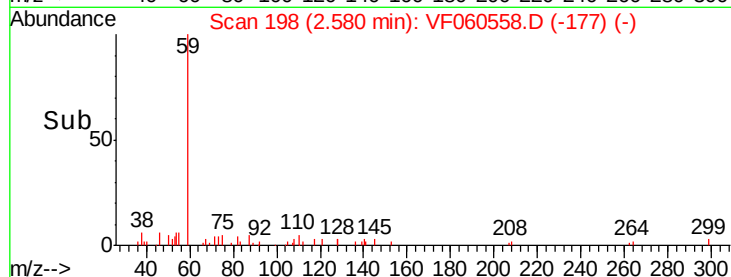
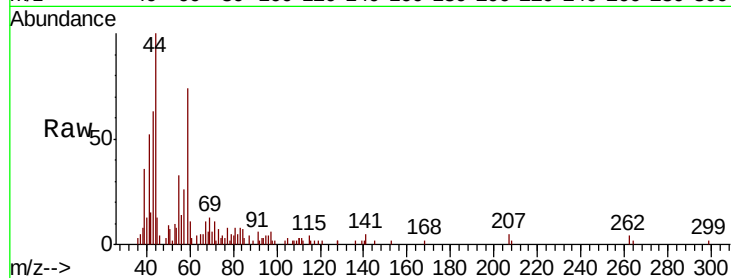
#11
Tert butyl alcohol
Concen: 82.689 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 59 Resp: 16076
Ion Ratio Lower Upper
59 100
57 35.7 19.0 28.4#

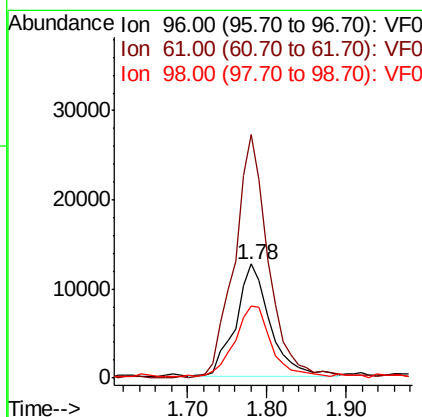
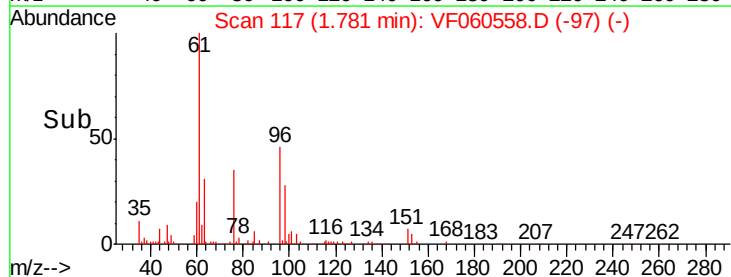
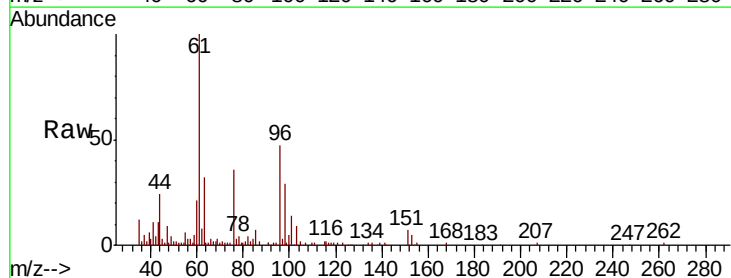
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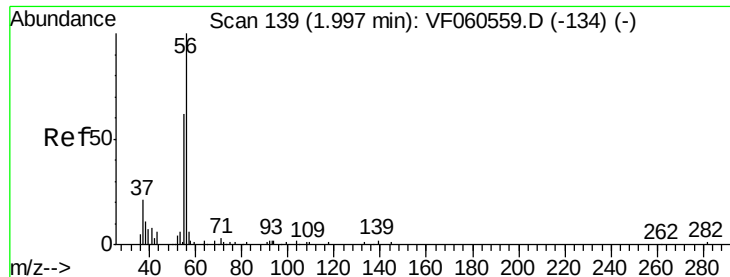
MMDadoda
11/5/2018 3:55:34 PM



#12
1,1-Dichloroethene
Concen: 12.629 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion: 96 Resp: 37916
Ion Ratio Lower Upper
96 100
61 213.2 158.1 237.1
98 62.8 47.0 70.6





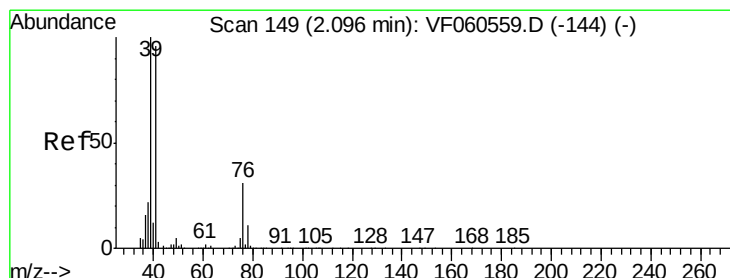
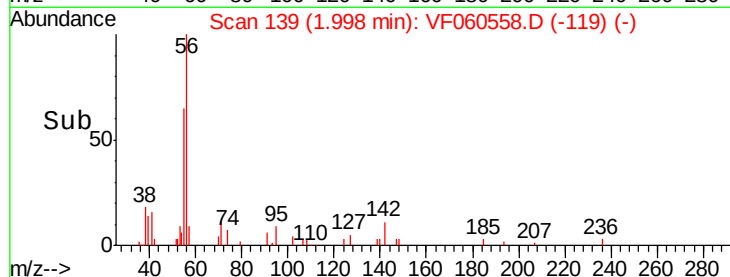
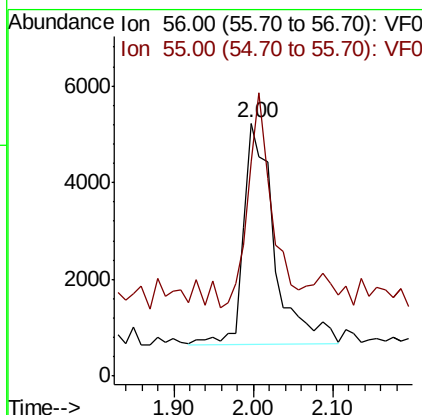
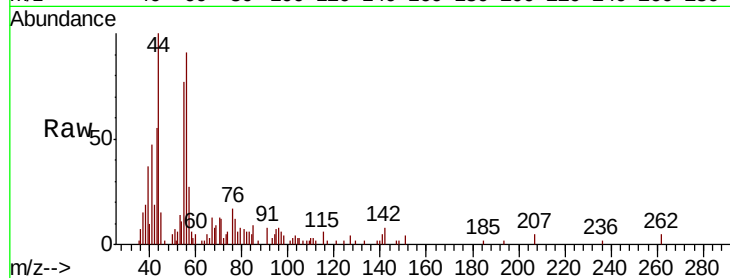
#13
Acrolein
Concen: 73.031 ug/l
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	56	Resp	12179
Ion Ratio	100	Lower	Upper
55	84.9	61.8	92.6

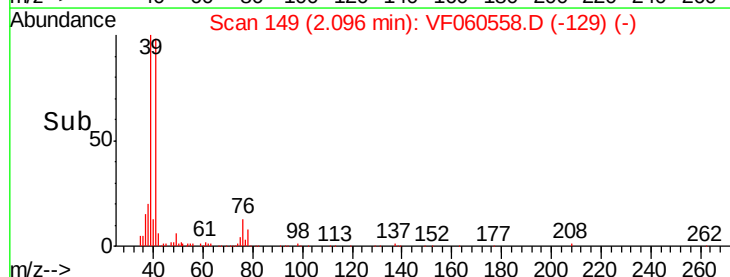
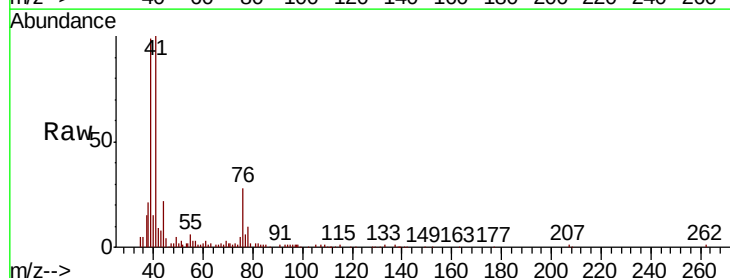
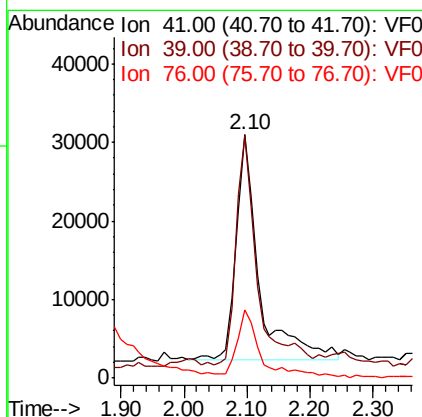
Manual Integrations
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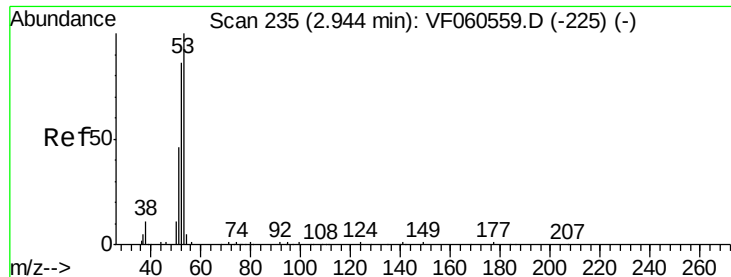
MMDadoda
11/5/2018 3:55:34 PM



#14
Allyl chloride
Concen: 14.866 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	41	Resp	71664
Ion Ratio	100	Lower	Upper
39	99.4	82.6	124.0
76	28.1	26.7	40.1





#15

Acrylonitrile

Concen: 78.365 ug/l

RT: 2.94 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

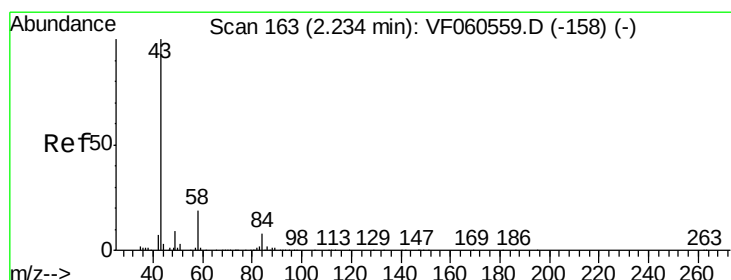
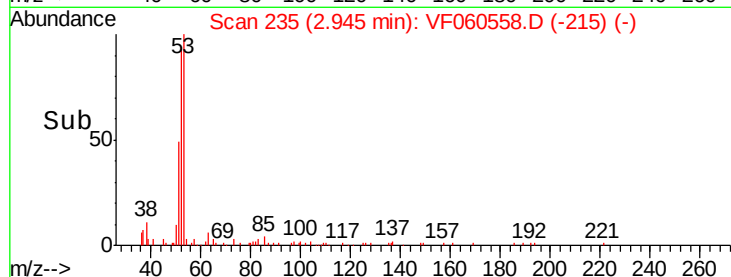
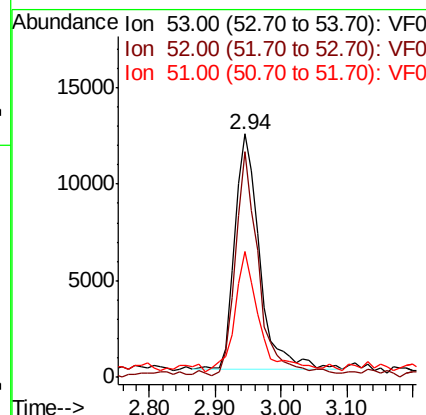
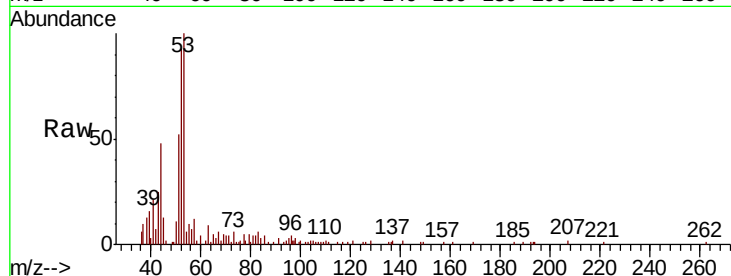
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	32727
Ion	Ratio	Lower	Upper
53	100		
52	92.5	68.5	102.7
51	51.7	38.2	57.2

Manual Integrations
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11/5/2018 3:55:34 PM



#16

Acetone

Concen: 78.075 ug/l

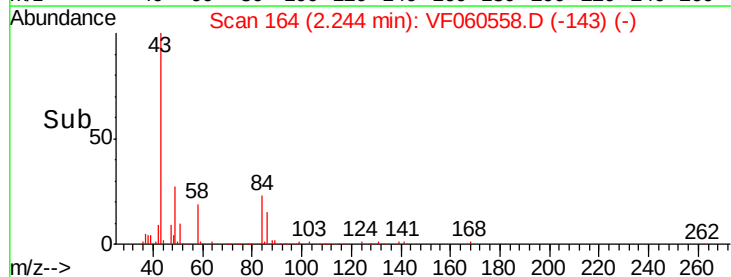
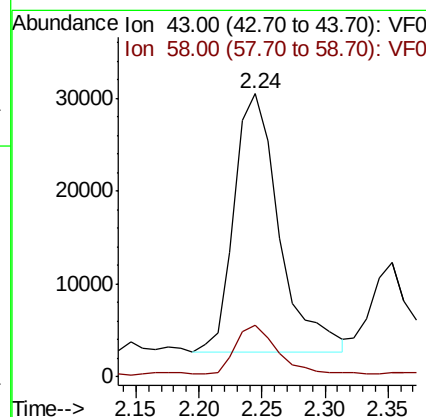
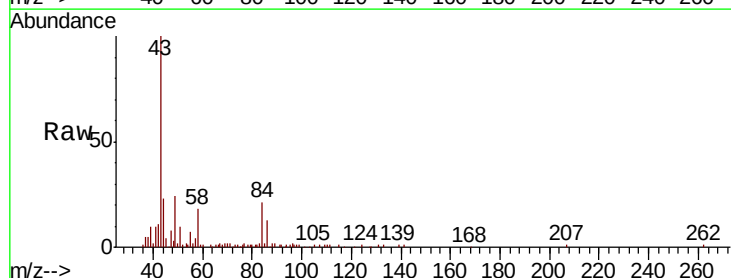
RT: 2.24 min Scan# 164

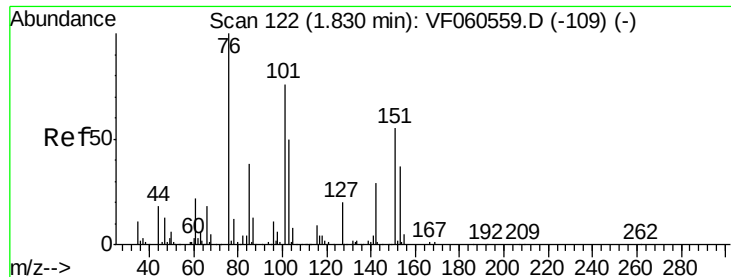
Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	43	Resp:	68895
Ion	Ratio	Lower	Upper
43	100		
58	18.2	14.6	22.0





#17

Carbon Disulfide

Concen: 13.837 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 115850

Ion Ratio Lower Upper

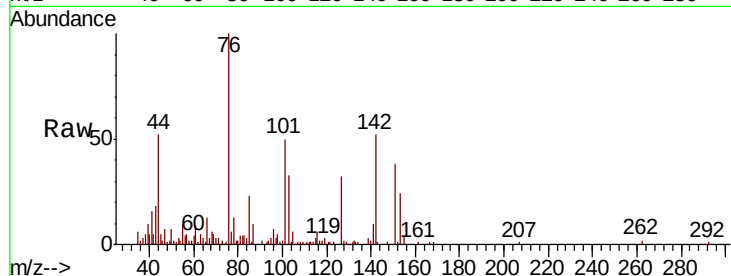
76 100

78 12.8 9.9 14.9

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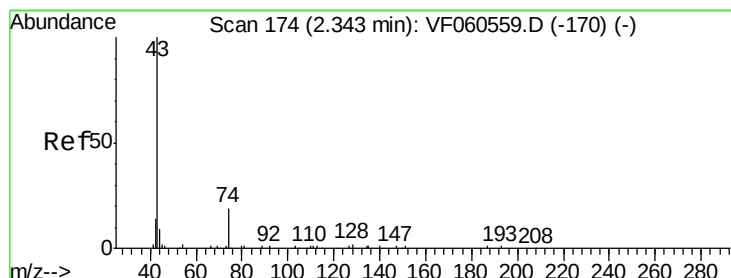
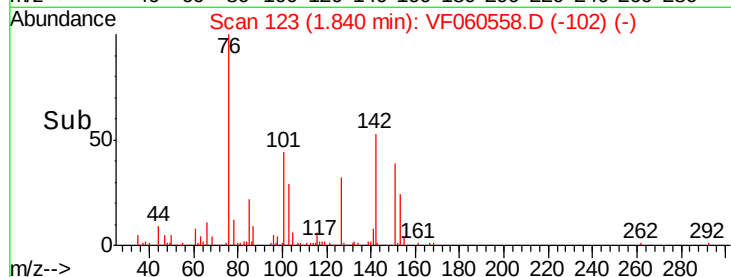
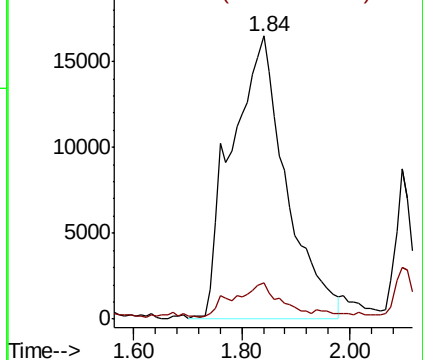
MMDadoda

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Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 15.286 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF060558.D

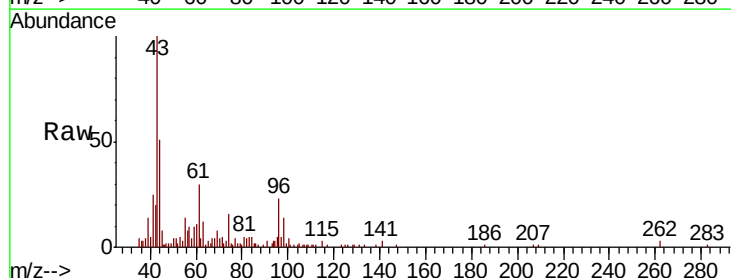
Acq: 2 Nov 2018 12:01

Tgt Ion: 43 Resp: 19624

Ion Ratio Lower Upper

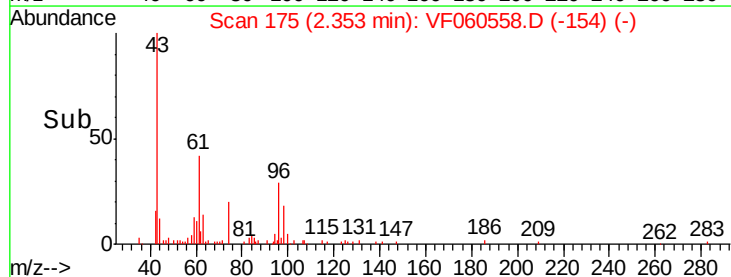
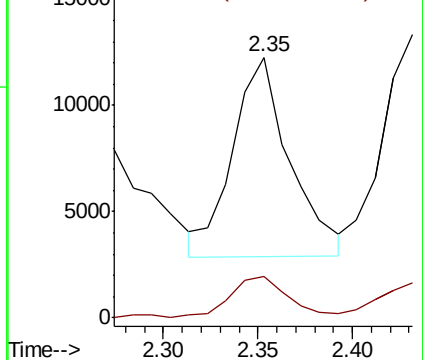
43 100

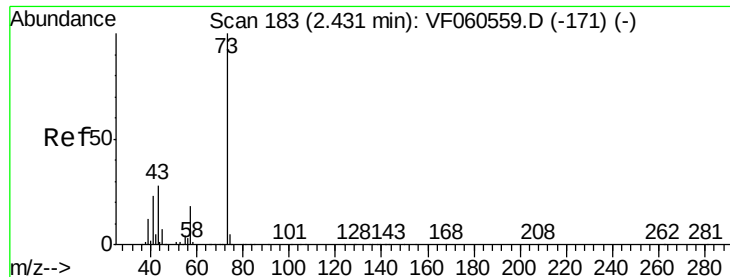
74 15.7 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





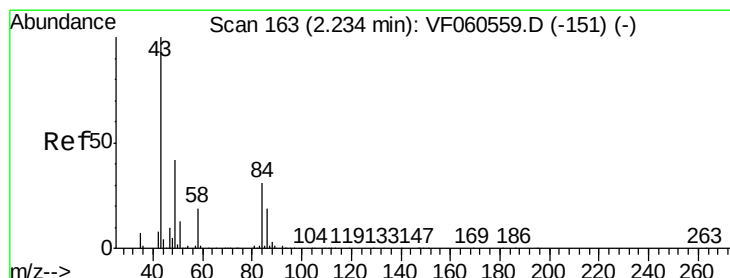
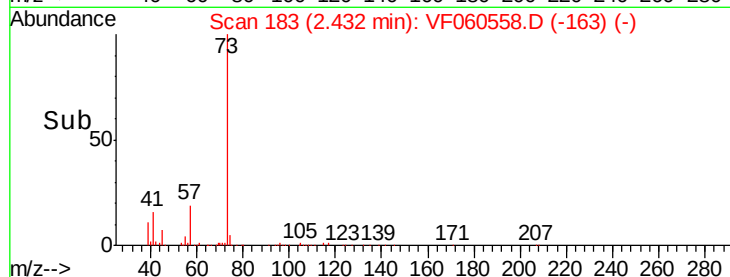
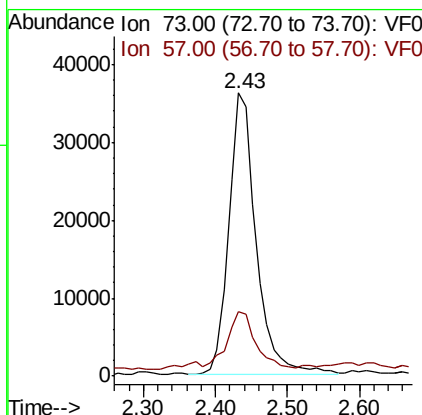
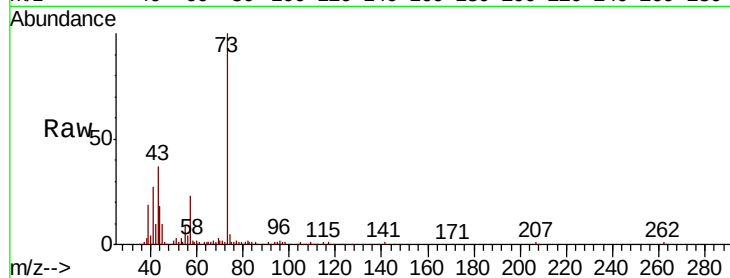
#19
Methyl tert-butyl Ether
Concen: 14.427 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	15.4	23.0

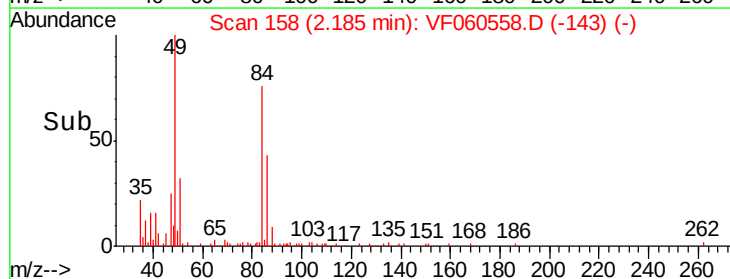
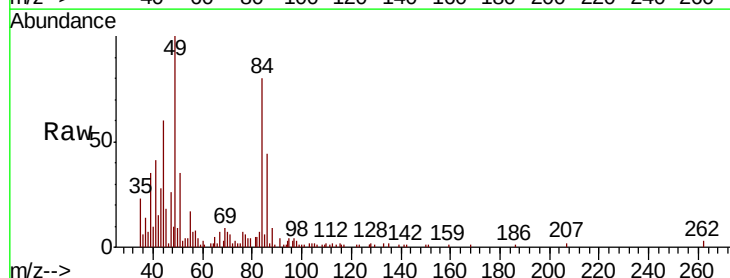
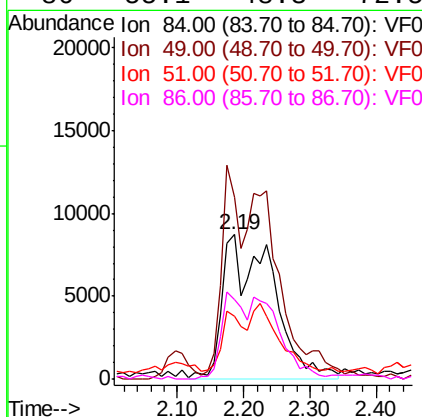
Manual Integrations
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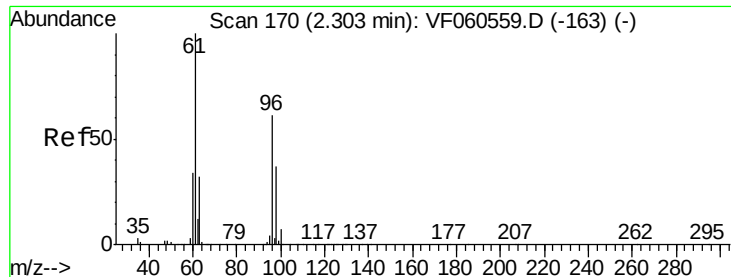
MMDadoda
11/5/2018 3:55:34 PM



#20
Methylene Chloride
Concen: 14.419 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.05 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.6	109.9	164.9
51	43.8	35.8	53.8
86	55.1	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 14.018 ug/l

RT: 2.30 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

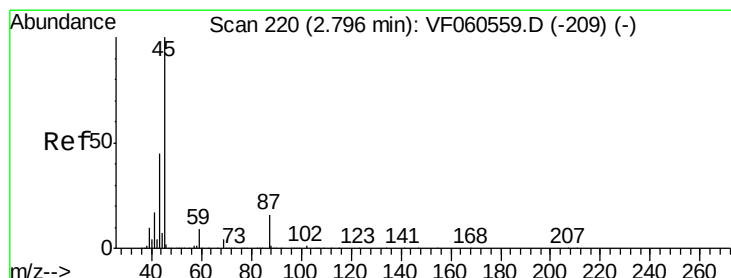
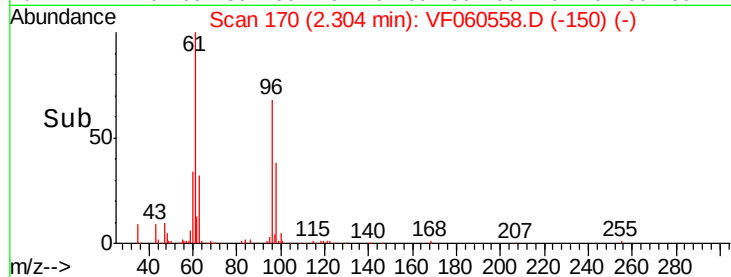
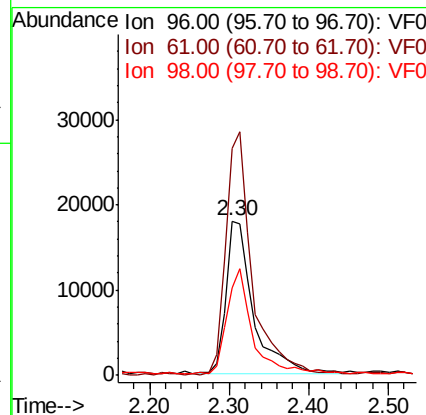
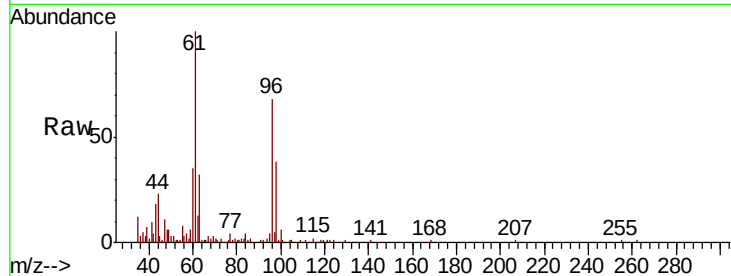
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	43094
Ion	Ratio	Lower	Upper
96	100		
61	146.9	131.3	196.9
98	56.3	48.6	73.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 16.092 ug/l

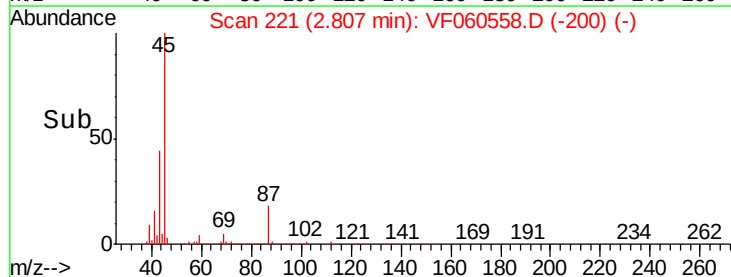
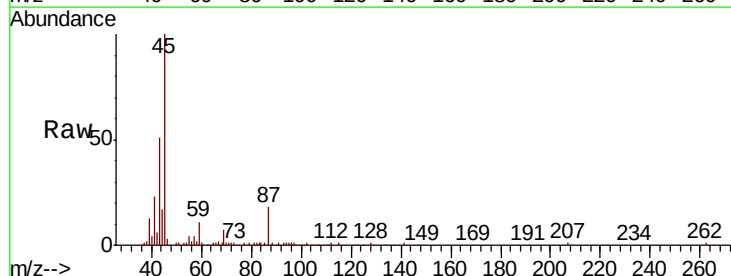
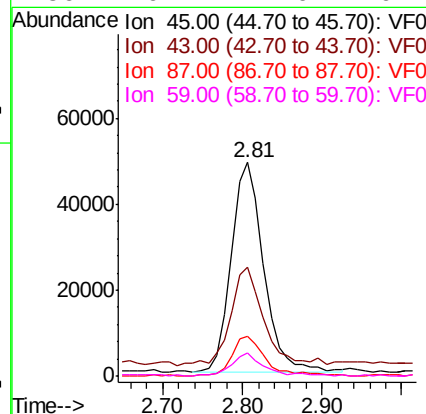
RT: 2.81 min Scan# 221

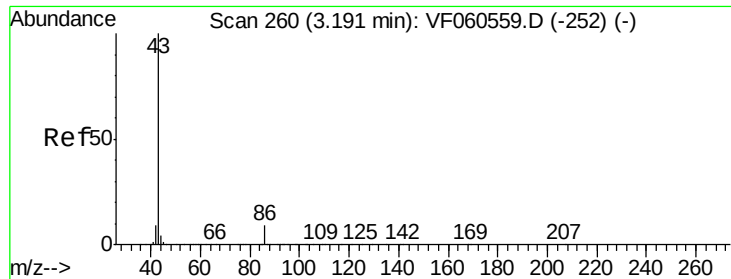
Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	45	Resp:	140549
Ion	Ratio	Lower	Upper
45	100		
43	50.8	38.1	57.1
87	18.4	12.7	19.1
59	10.7	7.0	10.4#





#23

Vinyl Acetate

Concen: 127.079 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 437473

Ion Ratio Lower Upper

43 100

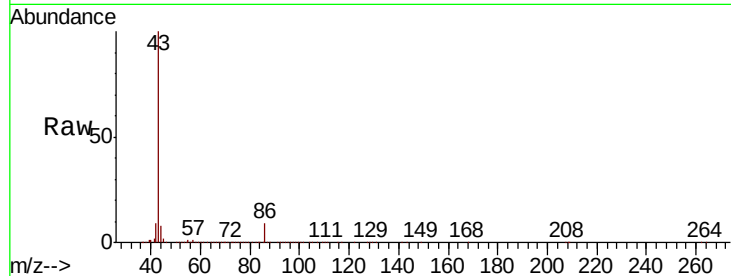
86 8.5 7.1 10.7

Manual Integrations

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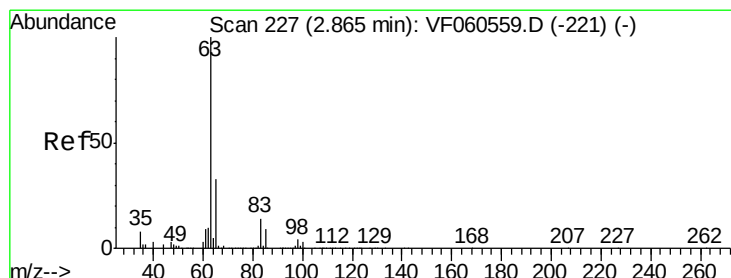
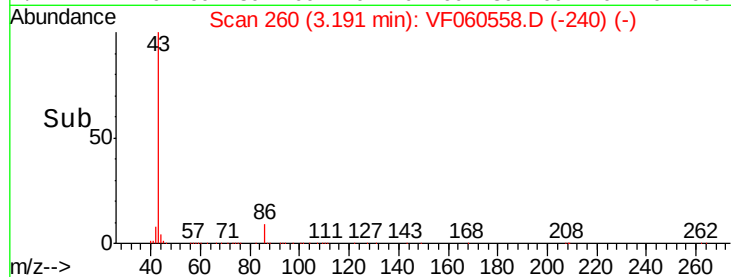
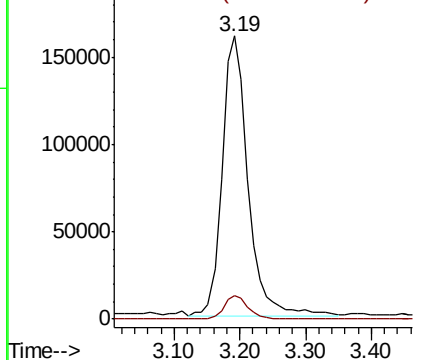
MMDadoda

11/5/2018 3:55:34 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 12.557 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

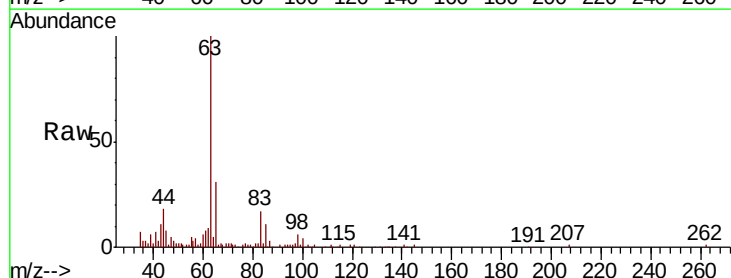
Tgt Ion: 63 Resp: 78486

Ion Ratio Lower Upper

63 100

98 5.5 2.2 6.6

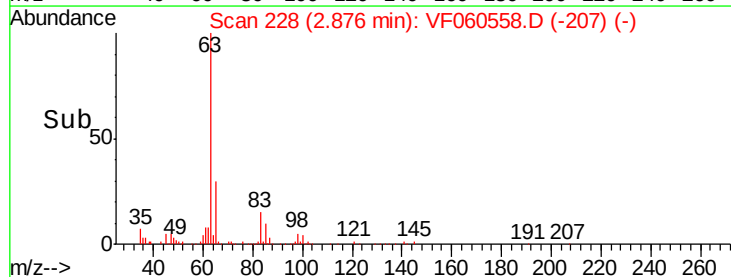
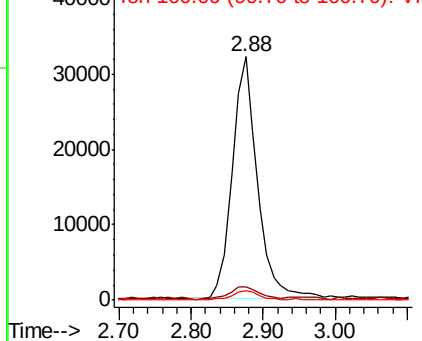
100 3.6 1.4 4.0

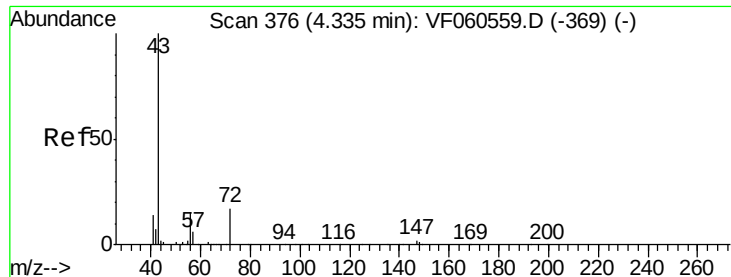


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 128.043 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 164706

Ion Ratio Lower Upper

43 100

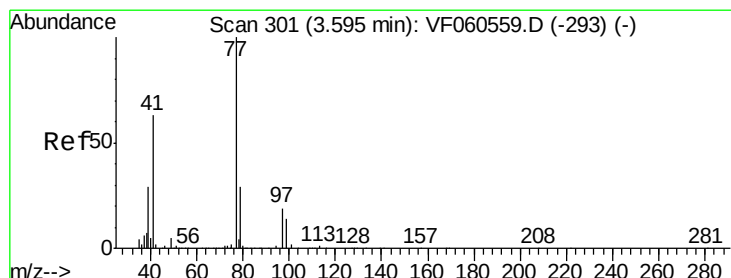
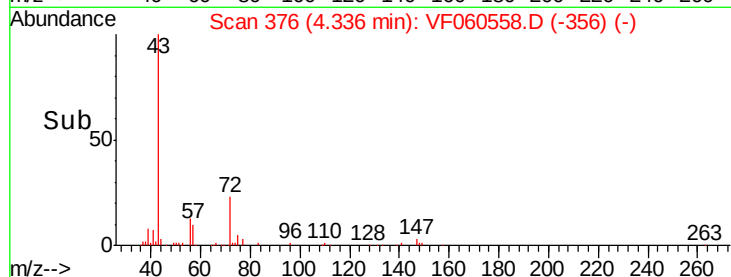
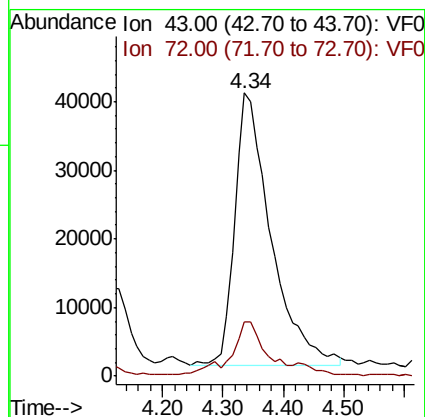
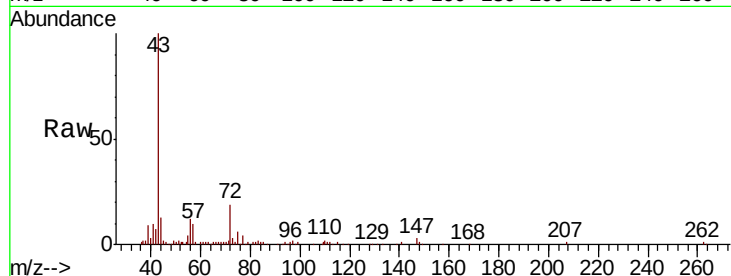
72 19.1 16.2 24.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 15.527 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF060558.D

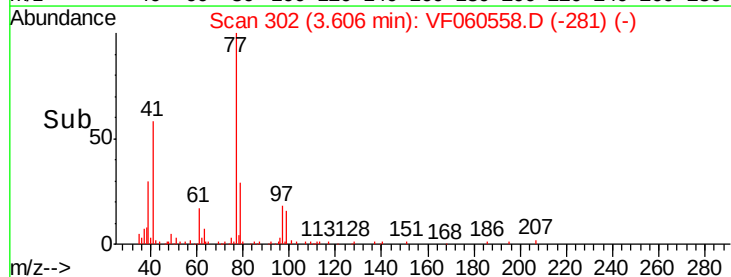
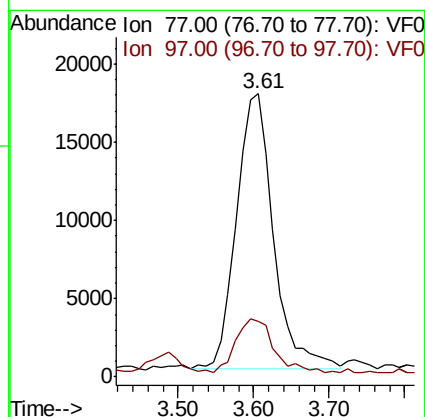
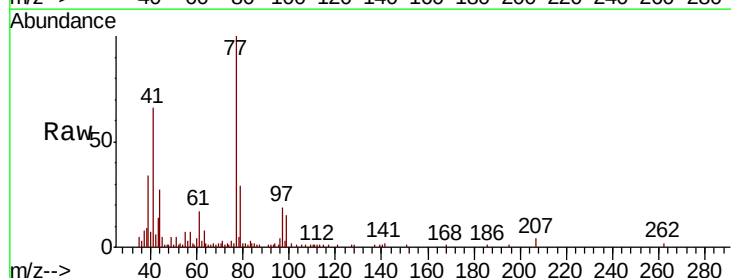
Acq: 2 Nov 2018 12:01

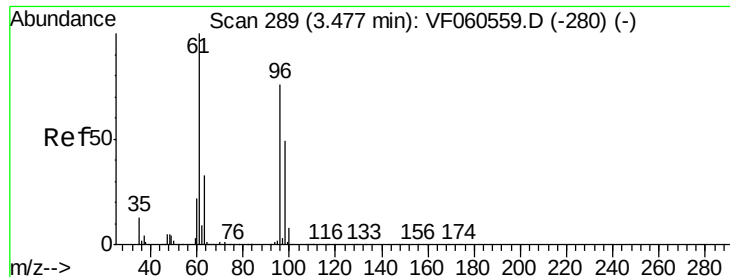
Tgt Ion: 77 Resp: 59919

Ion Ratio Lower Upper

77 100

97 19.5 9.8 29.3





#27

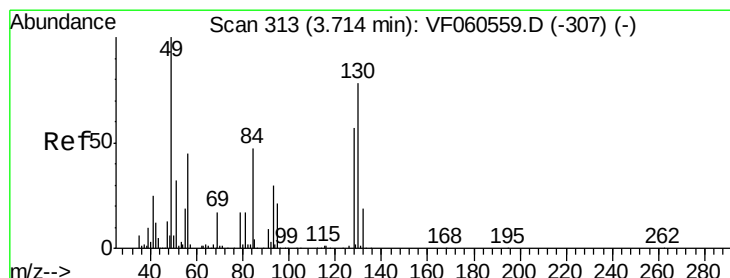
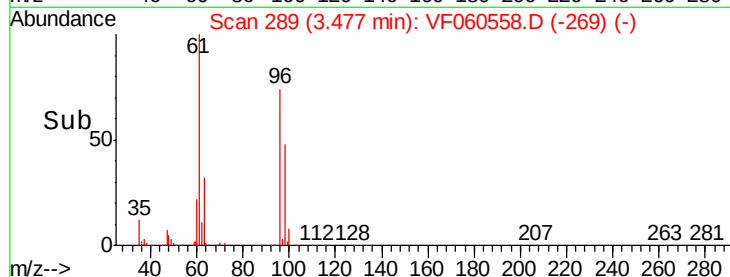
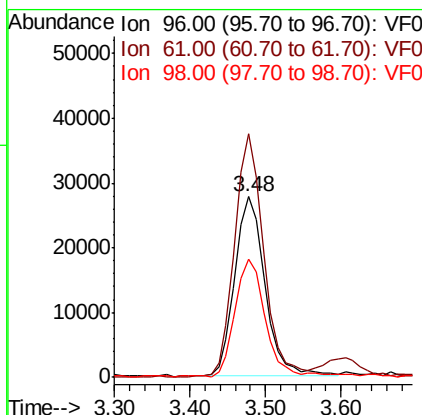
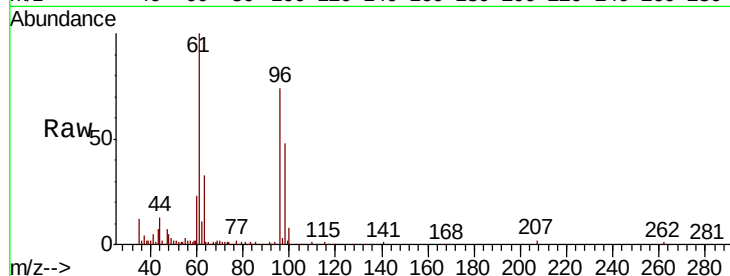
cis-1,2-Dichloroethene
Concen: 19.842 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.8	0.0	263.0
98	65.3	0.0	130.6

Manual Integrations
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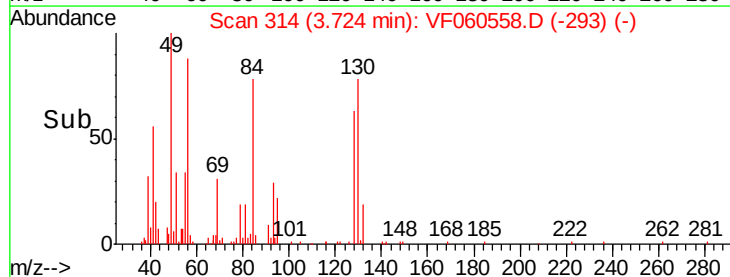
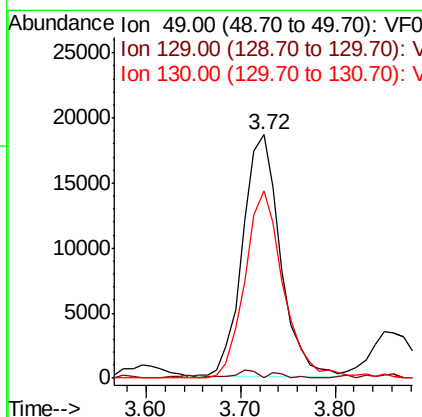
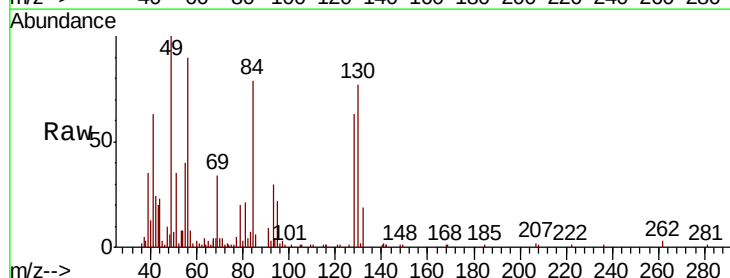
MMDadoda
11/5/2018 3:55:34 PM

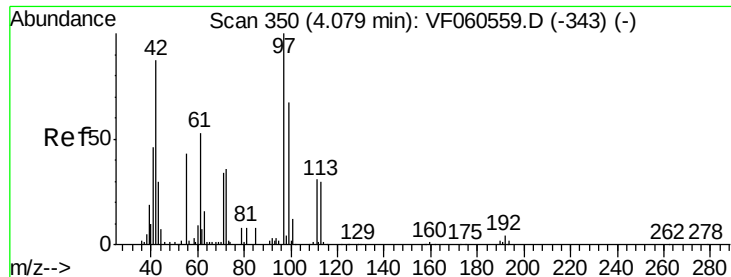


#28

Bromochloromethane
Concen: 21.758 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	76.9	61.8	92.8





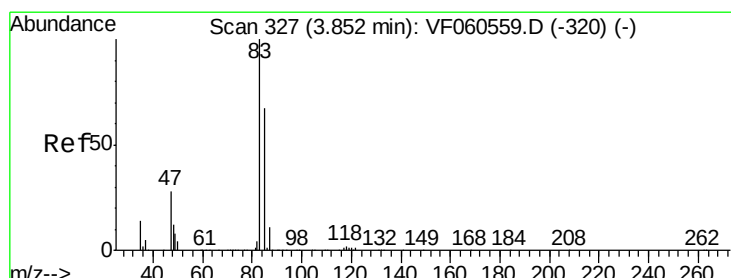
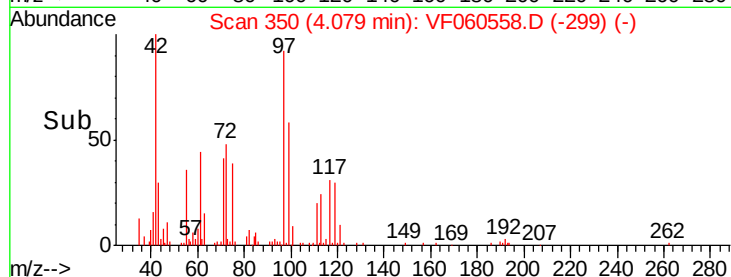
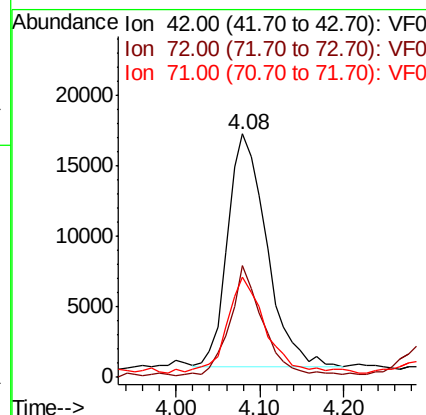
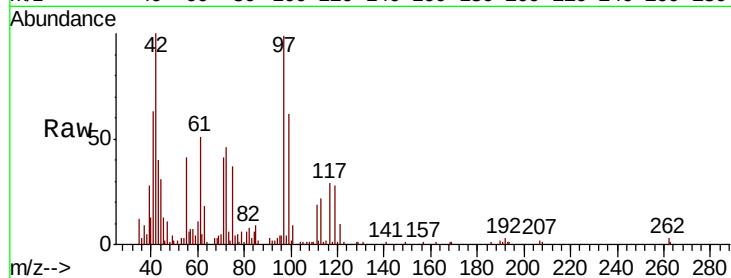
#29
Tetrahydrofuran
Concen: 132.534 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:	42	Resp:	52864
Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.4	47.0
71	41.4	31.8	47.6

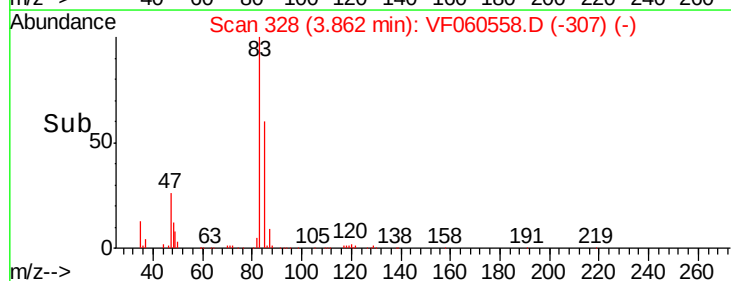
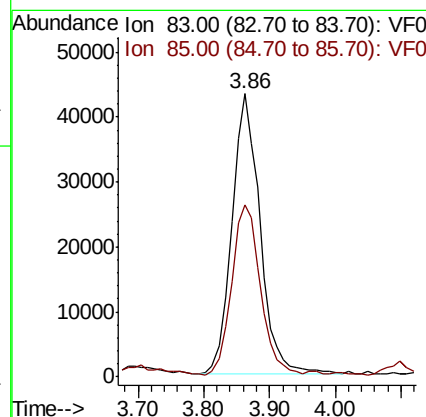
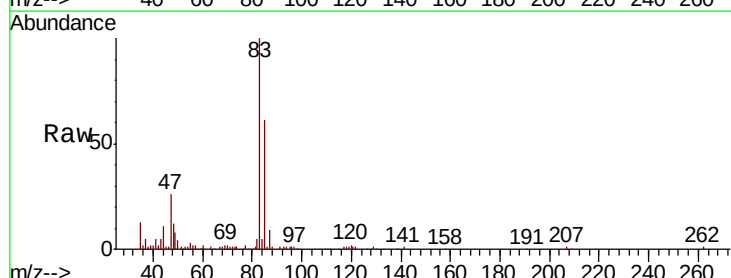
Manual Integrations
APPROVED

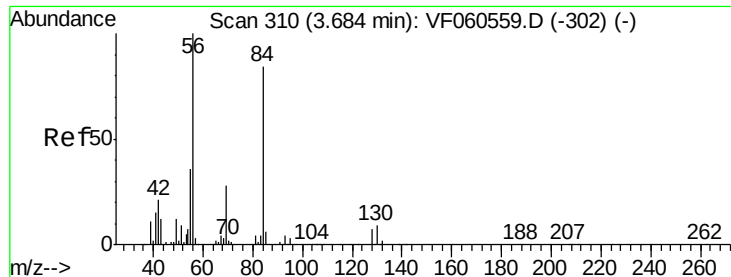
MMDadoda
11/5/2018 3:55:34 PM



#30
Chloroform
Concen: 16.162 ug/l
RT: 3.86 min Scan# 328
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion:	83	Resp:	128700
Ion	Ratio	Lower	Upper
83	100		
85	60.6	53.7	80.5





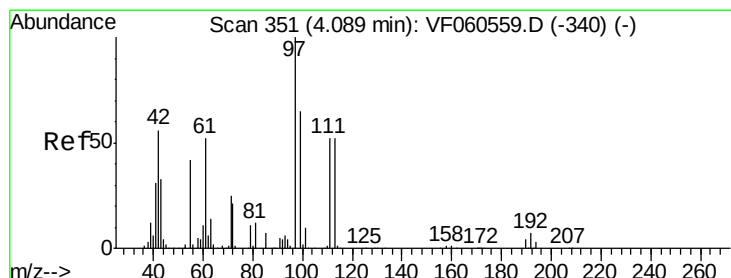
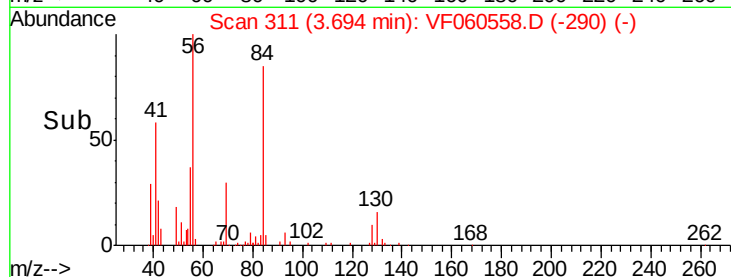
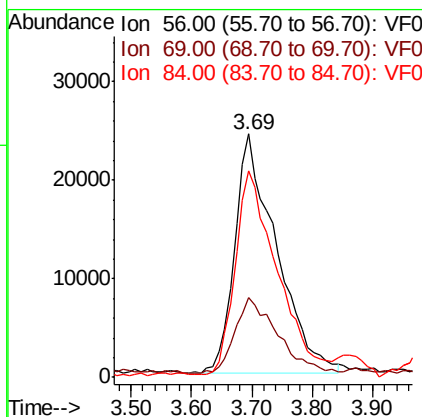
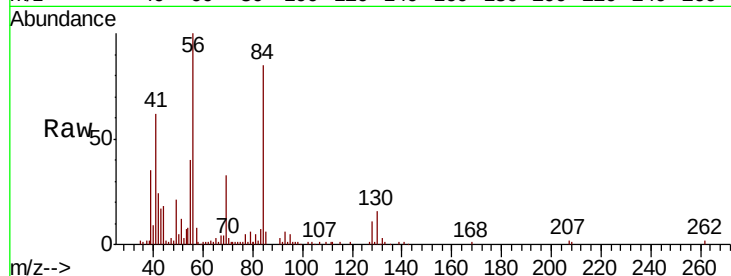
#31
Cyclohexane
Concen: 24.180 ug/l
RT: 3.69 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.6	23.0	34.4
84	84.8	67.1	100.7

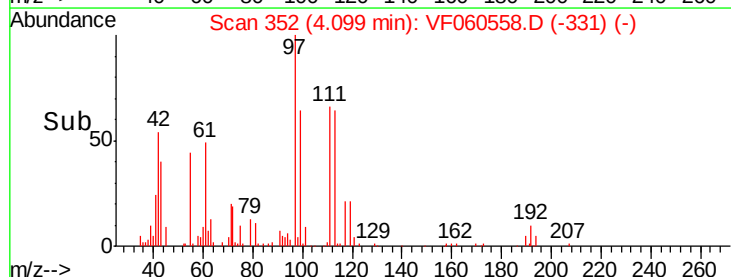
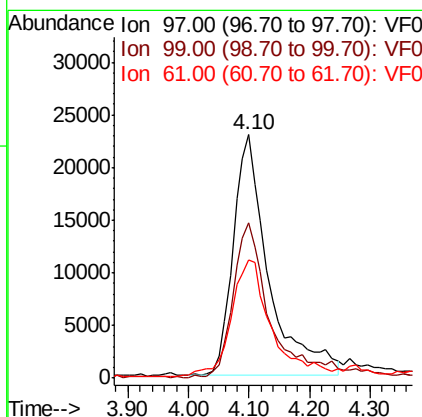
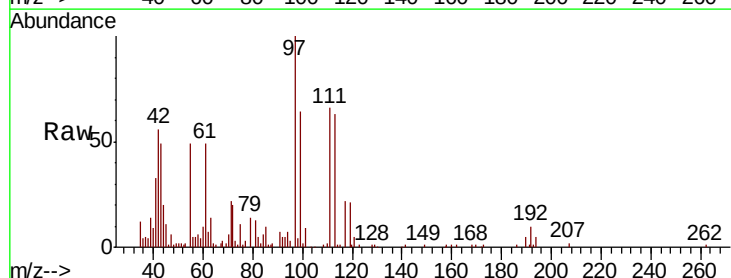
Manual Integrations
APPROVED

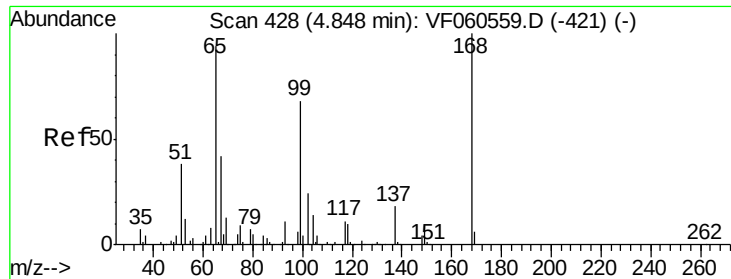
MMDadoda
11/5/2018 3:55:34 PM



#32
1,1,1-Trichloroethane
Concen: 14.569 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.4	78.6
61	48.6	41.5	62.3





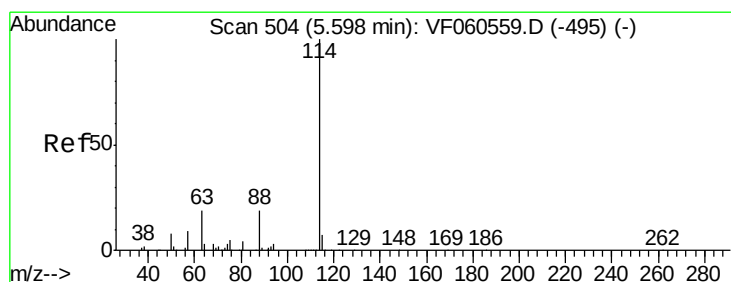
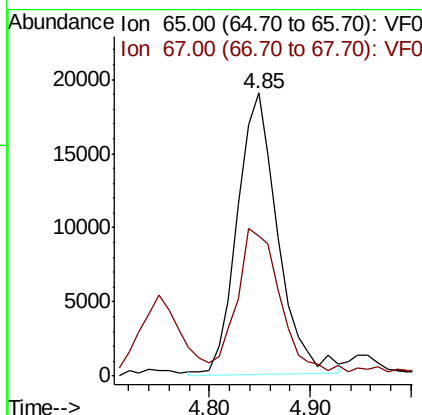
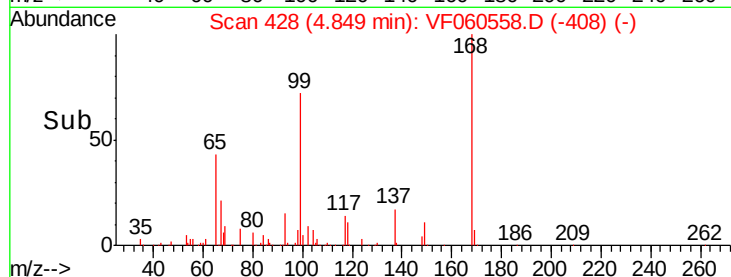
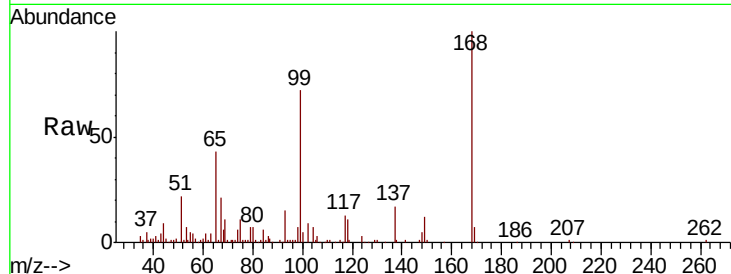
#33
 1,2-Dichloroethane-d4
 Concen: 13.058 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	52928		
67	49.2	0.0	101.8	

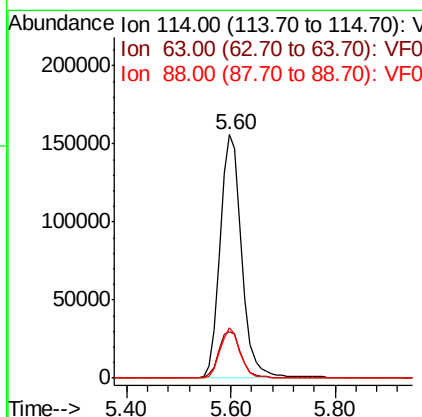
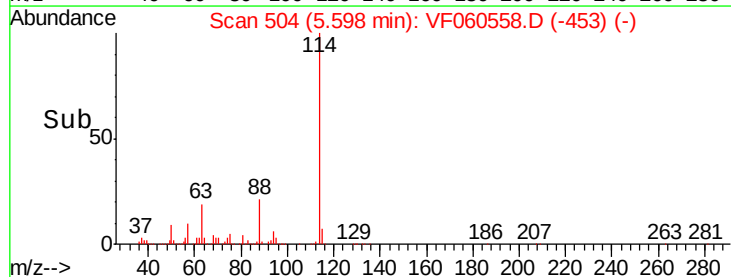
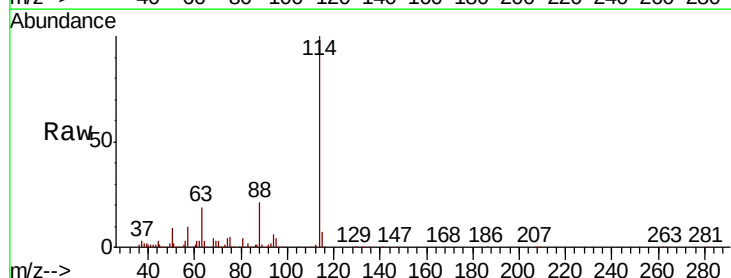
Manual Integrations
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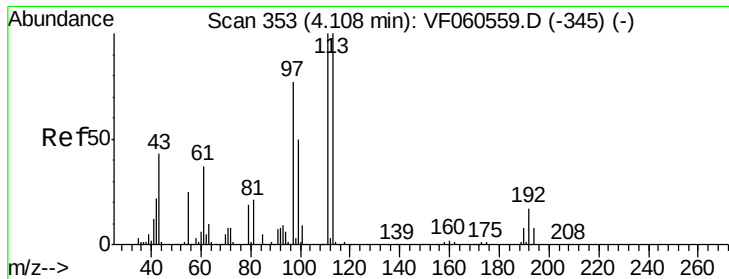
MMDadoda
 11/5/2018 3:55:34 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	449229		
63	19.1	0.0	39.0	
88	20.6	0.0	38.2	





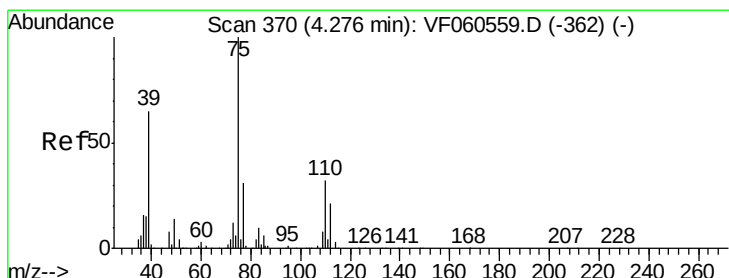
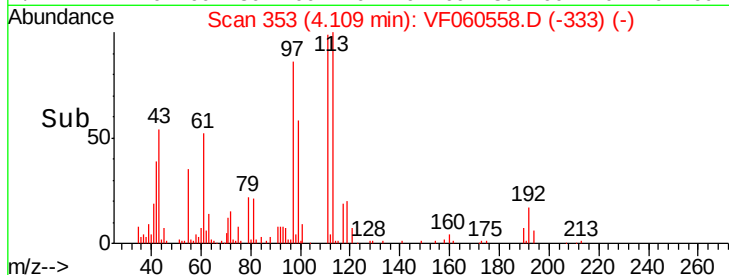
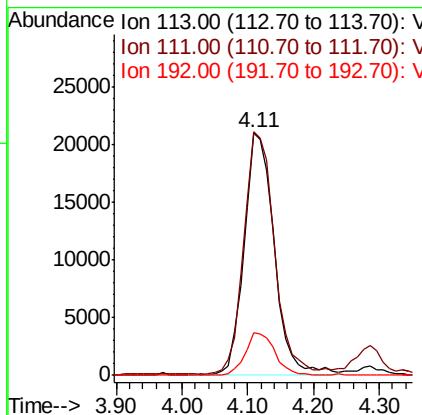
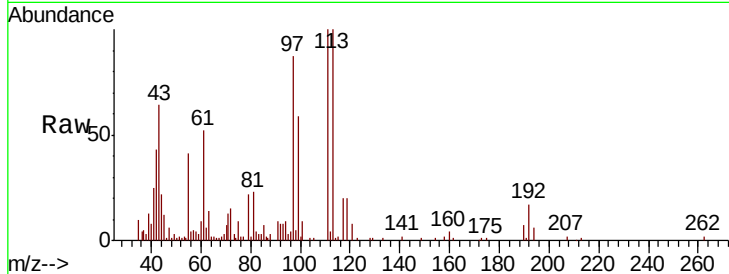
#35
 Dibromofluoromethane
 Concen: 16.077 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	79.9	119.9
192	17.4	13.3	19.9

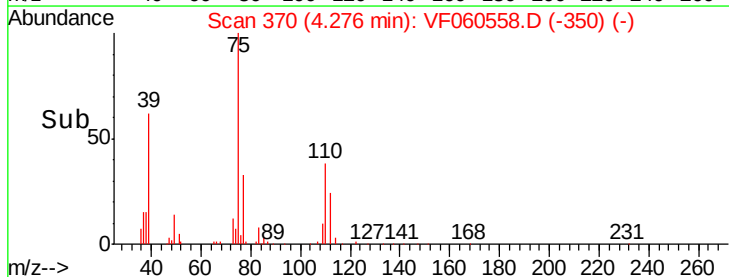
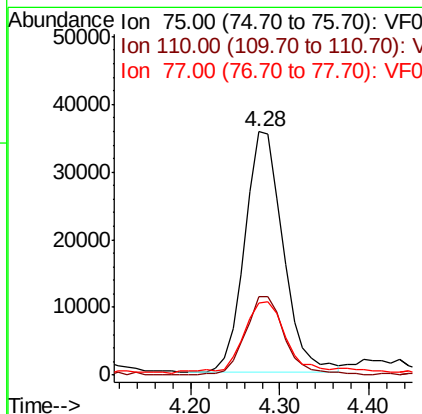
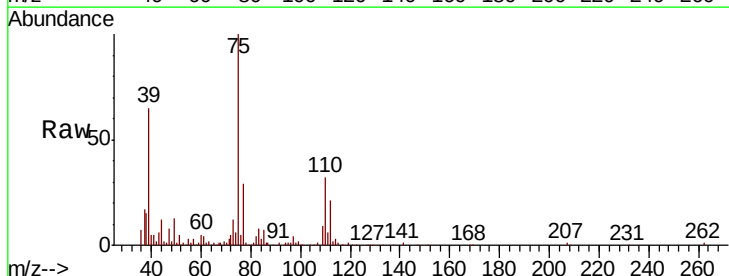
Manual Integrations
 APPROVED

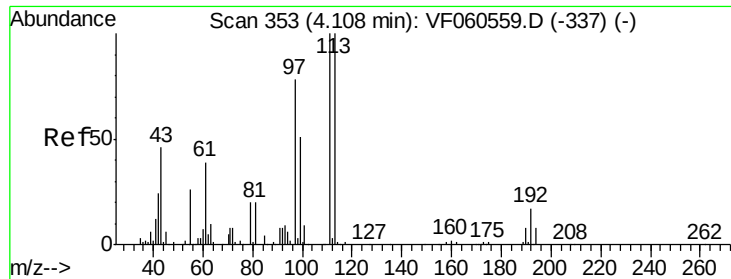
MMDadoda
 11/5/2018 3:55:34 PM



#36
 1,1-Dichloropropene
 Concen: 19.266 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.2	48.6
77	29.4	25.0	37.6





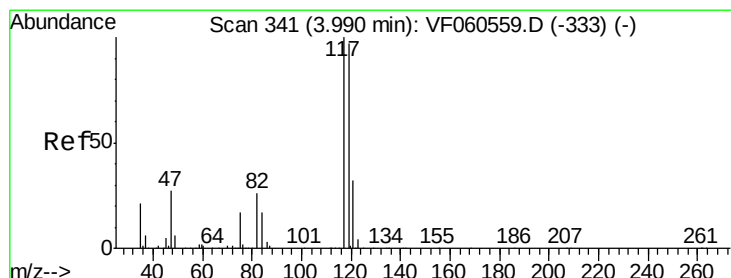
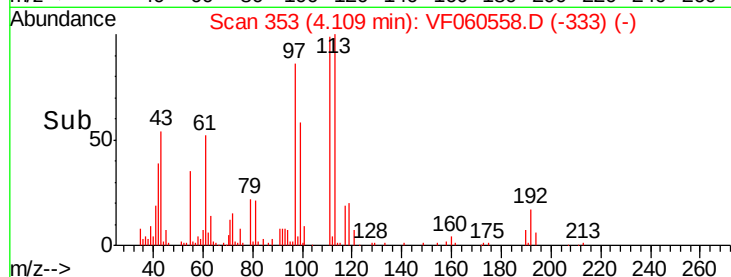
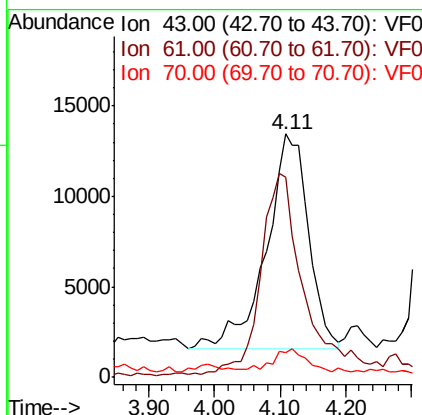
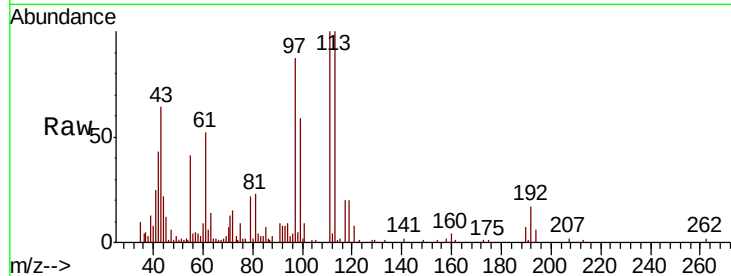
#37
Ethyl Acetate
Concen: 27.969 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	43	61	70	Ratio	Lower	Upper	Resp
43	100						52596
61	82.0				63.4	95.2	
70	10.3				9.3	13.9	

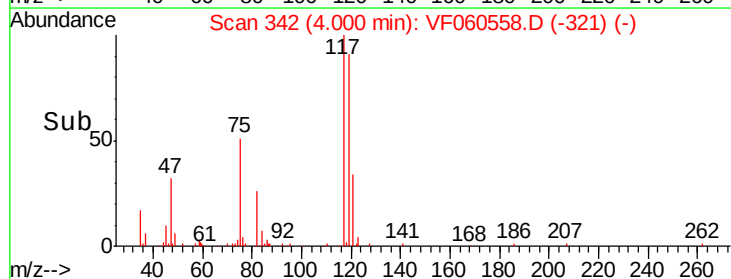
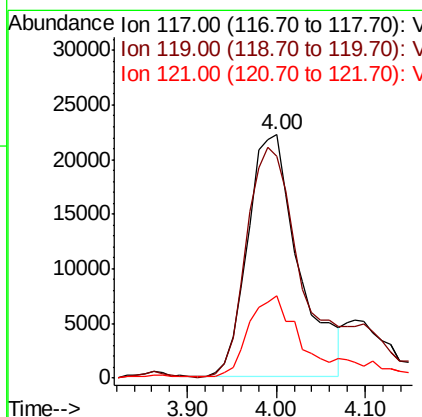
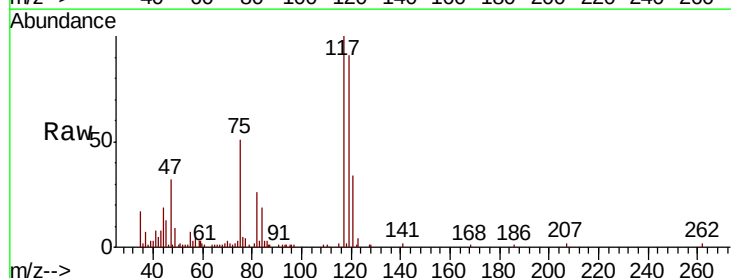
Manual Integrations
APPROVED

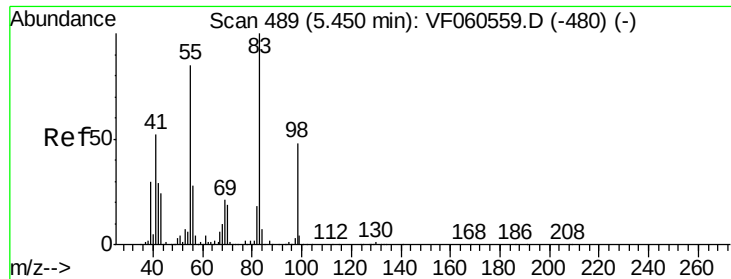
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11/5/2018 3:55:34 PM



#38
Carbon Tetrachloride
Concen: 13.982 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	117	119	121	Ratio	Lower	Upper	Resp
117	100						87972
119	91.1				77.8	116.6	
121	33.7				25.6	38.4	





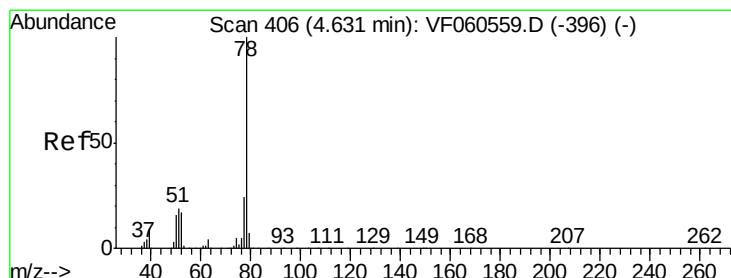
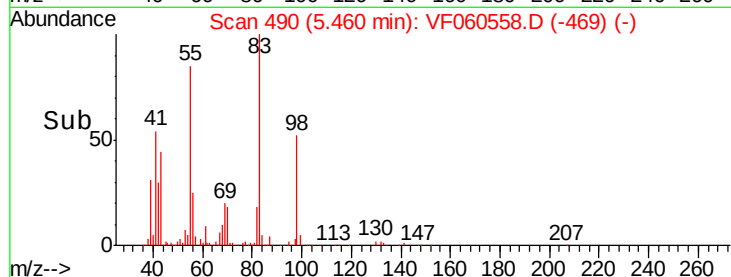
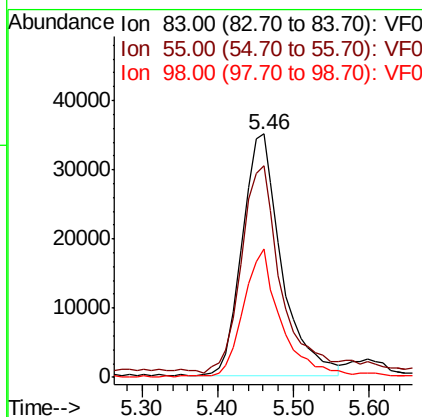
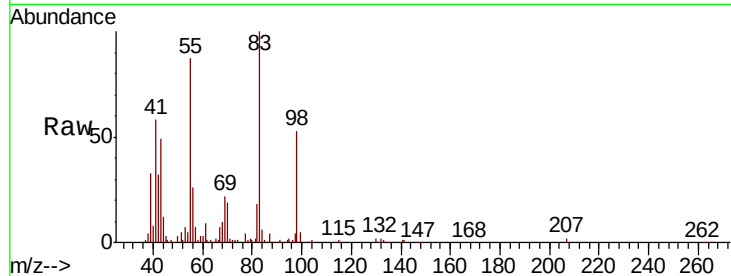
#39
Methylvlcyclohexane
Concen: 21.765 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.8	69.1	103.7
98	52.5	38.6	57.8

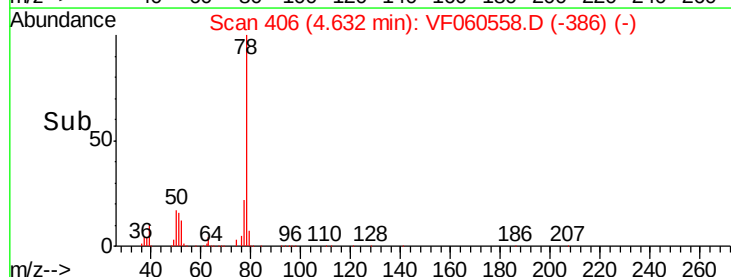
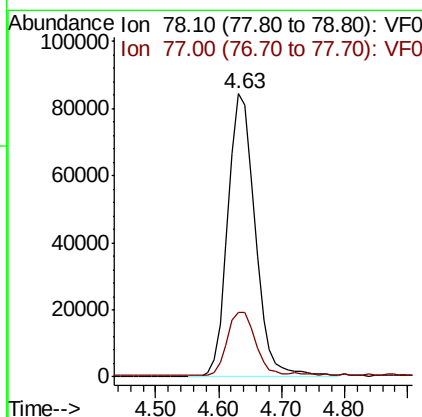
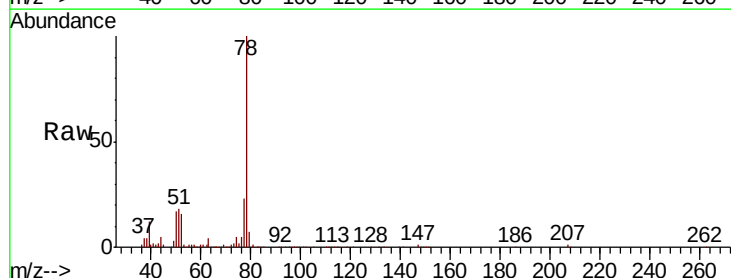
Manual Integrations
APPROVED

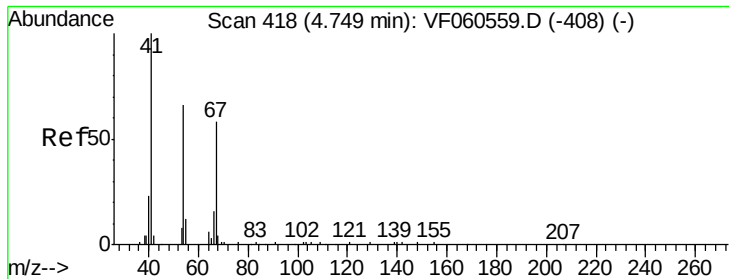
MMDadoda
11/5/2018 3:55:34 PM



#40
Benzene
Concen: 22.664 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.3	28.9





#41

Methacrylonitrile

Concen: 26.954 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

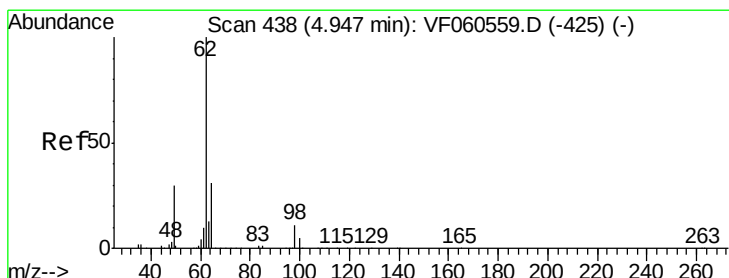
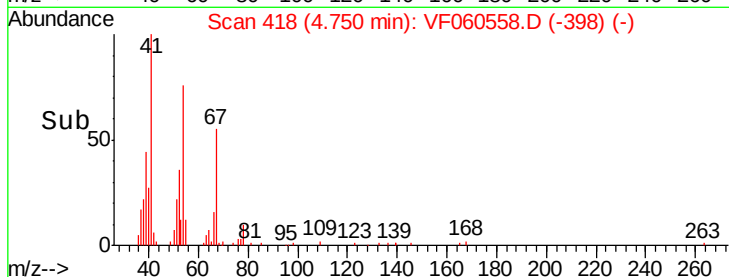
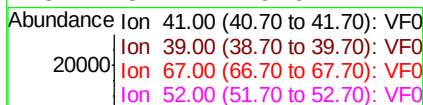
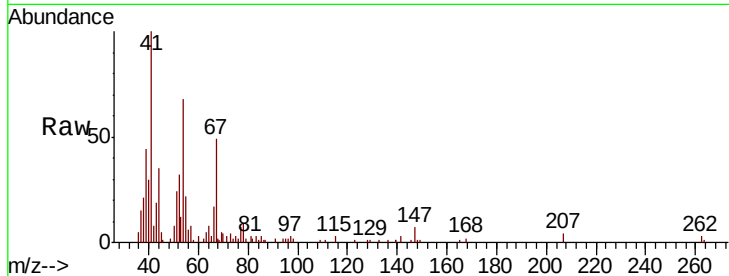
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	44.1	45.6	68.4#
67	49.3	45.3	67.9
52	32.1	29.6	44.4

Manual Integrations
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11/5/2018 3:55:34 PM



#42

1,2-Dichloroethane

Concen: 14.411 ug/l

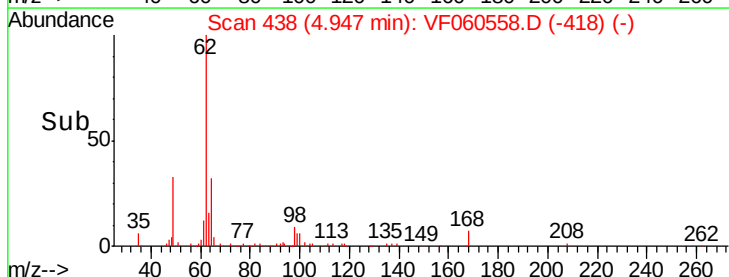
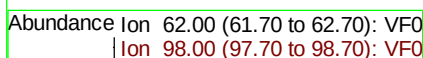
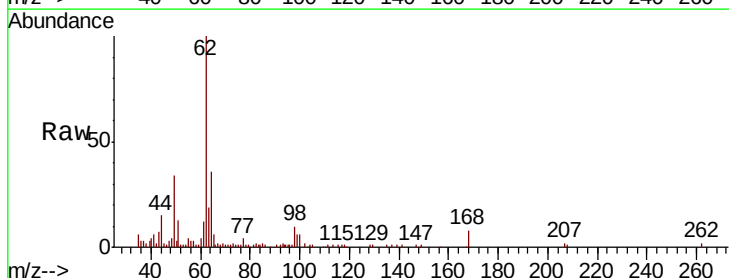
RT: 4.95 min Scan# 438

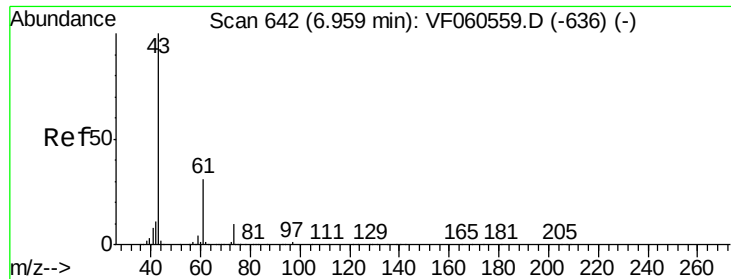
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	22.4





#43

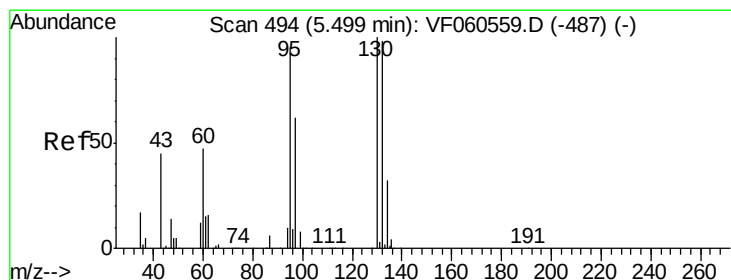
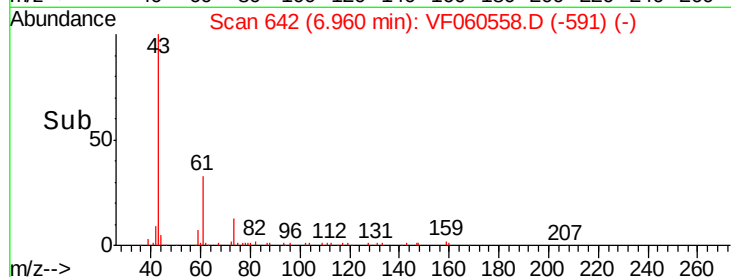
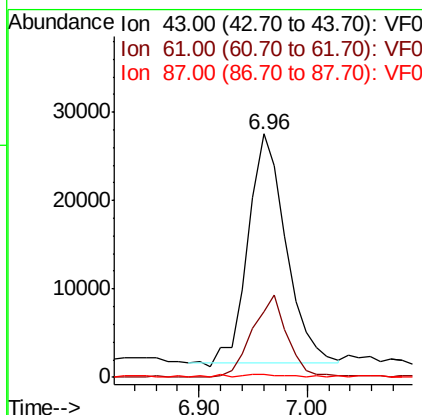
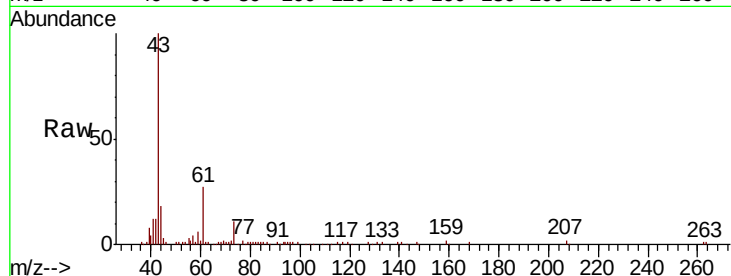
Isopropyl Acetate
 Concen: 27.835 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.1	24.2	36.2
87	1.2	0.2	0.4

Manual Integrations
 APPROVED

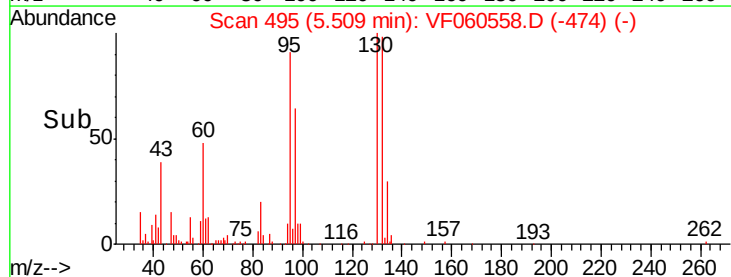
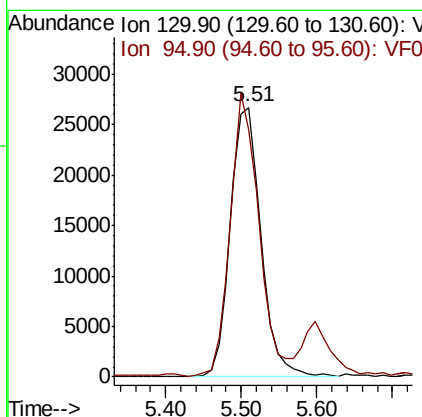
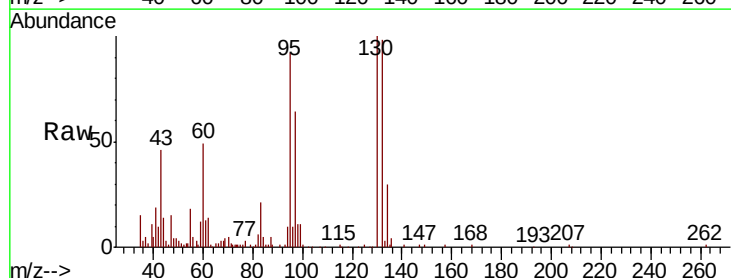
MMDadoda
 11/5/2018 3:55:34 PM

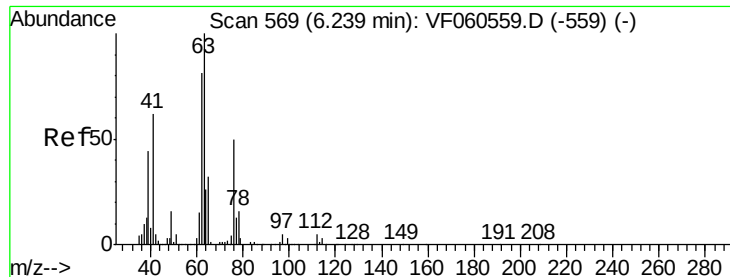


#44

Trichloroethene
 Concen: 20.714 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	0.0	191.0





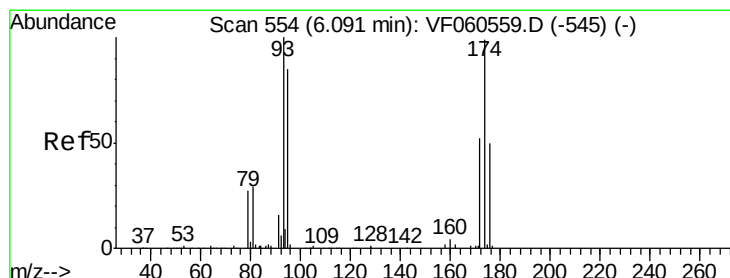
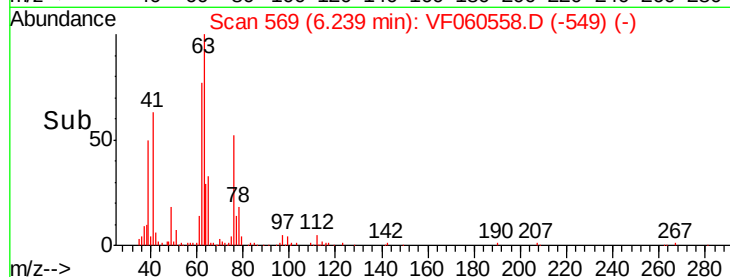
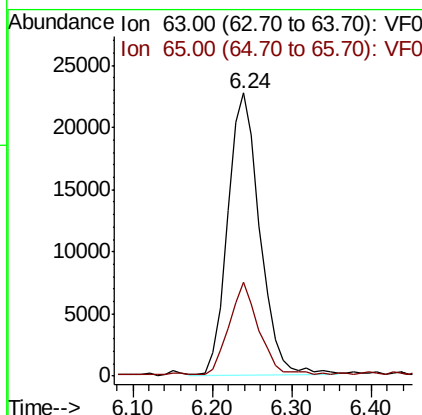
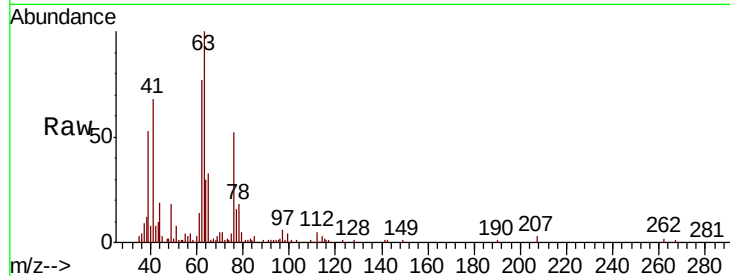
#45
 1,2-Dichloropropane
 Concen: 22.659 ug/l
 RT: 6.24 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.0	25.4	38.0

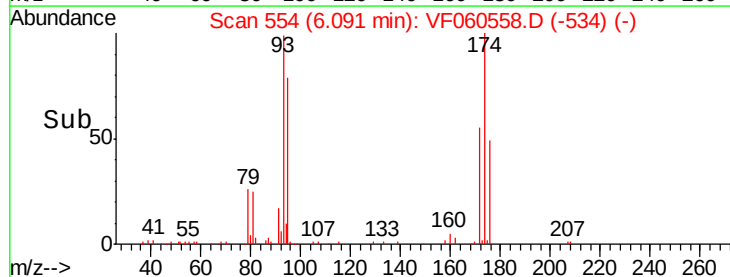
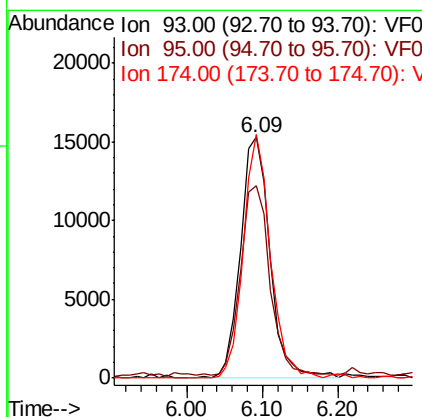
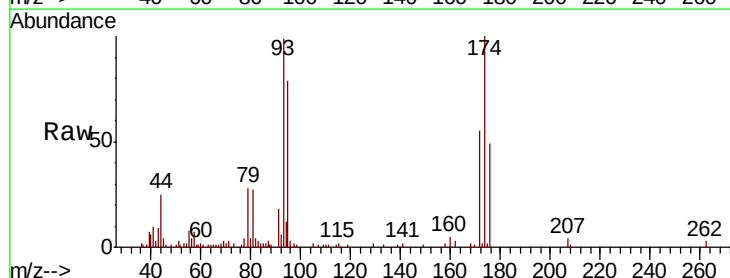
Manual Integrations
 APPROVED

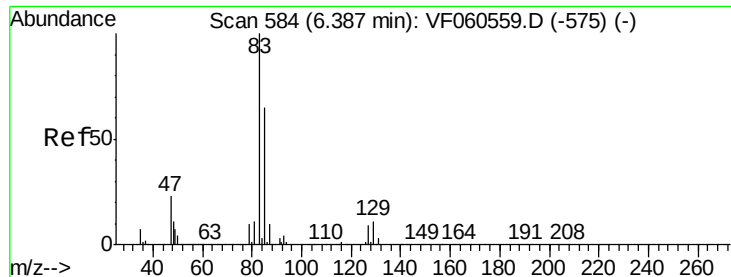
MMDadoda
 11/5/2018 3:55:34 PM



#46
 Dibromomethane
 Concen: 19.514 ug/l
 RT: 6.09 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.3	68.6	102.8
174	103.6	79.0	118.4





#47

Bromodichloromethane

Concen: 18.236 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

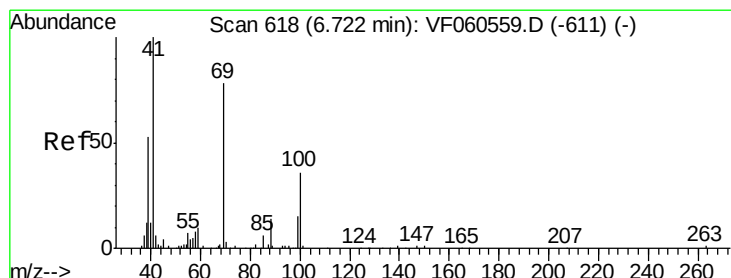
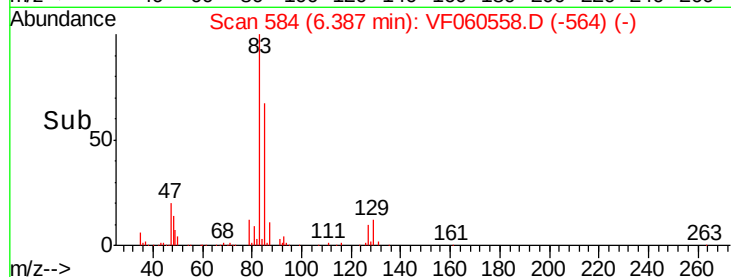
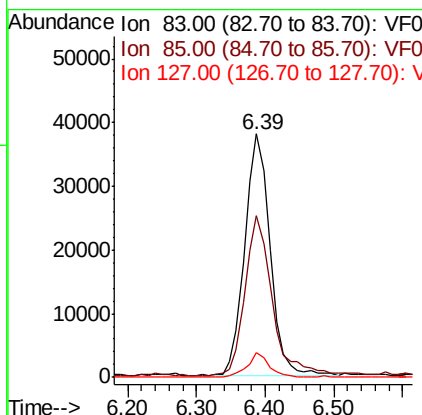
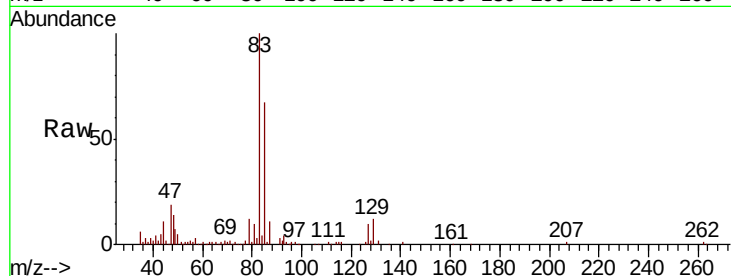
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	98010
Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.6
127	10.3	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 28.044 ug/l

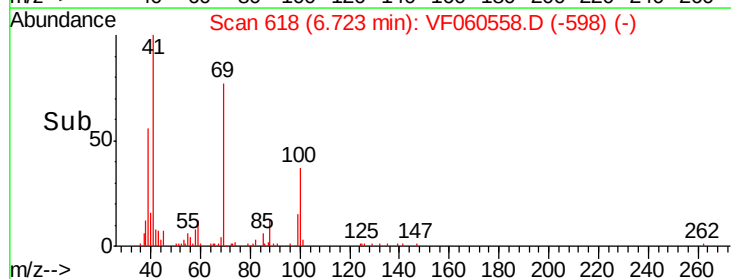
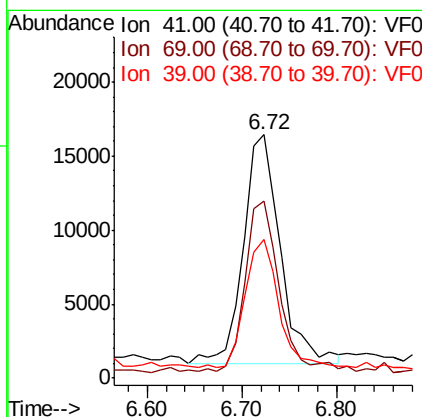
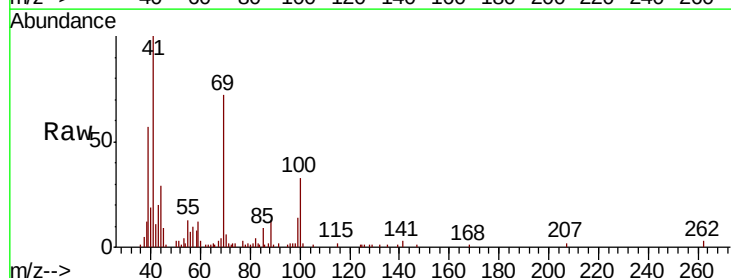
RT: 6.72 min Scan# 618

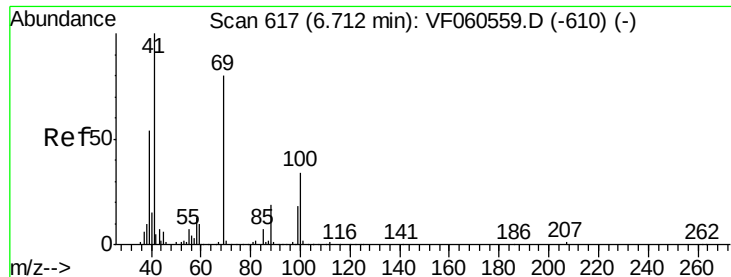
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	41	Resp:	42524
Ion	Ratio	Lower	Upper
41	100		
69	72.5	61.1	91.7
39	56.8	43.0	64.6





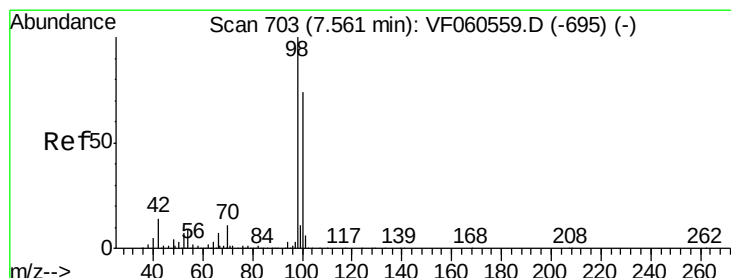
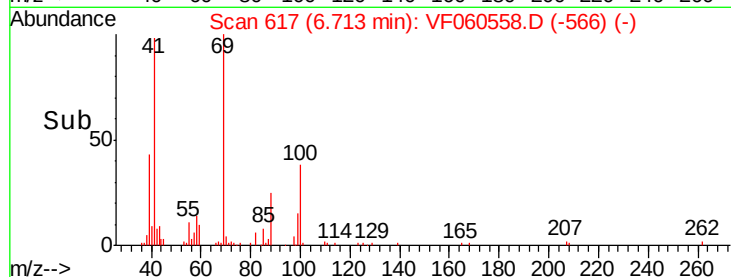
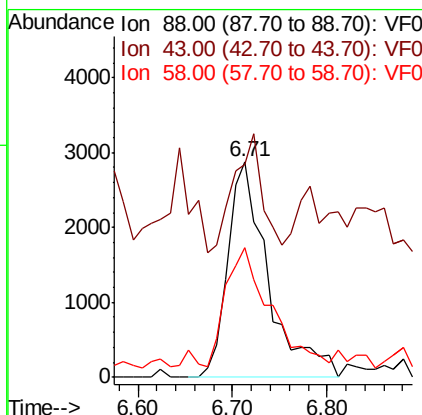
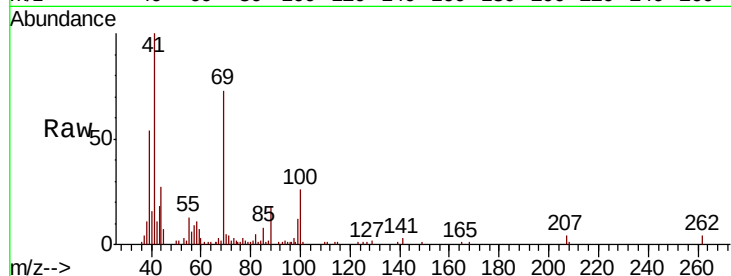
#49
1,4-Dioxane
Concen: 574.883 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
88	100	8505		
43	98.5	61.2	91.8#	
58	60.2	56.9	85.3	

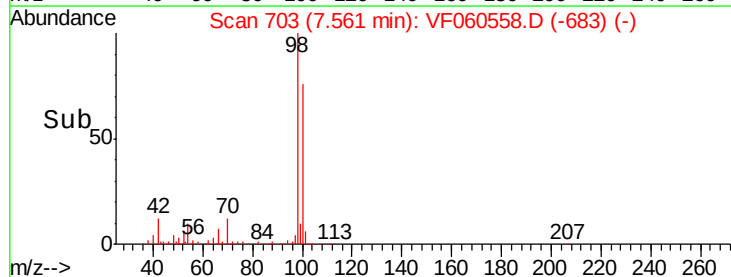
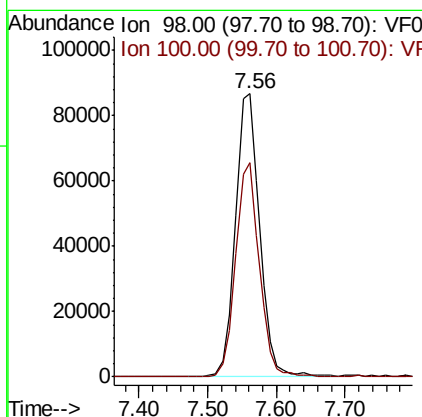
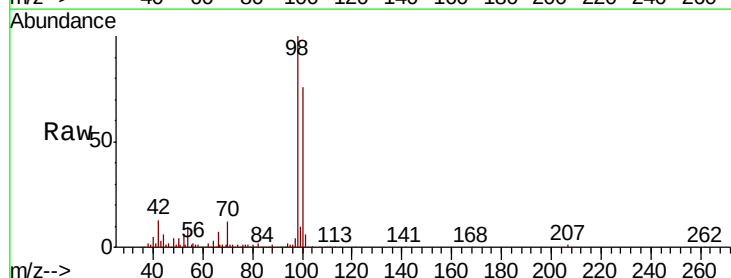
Manual Integrations
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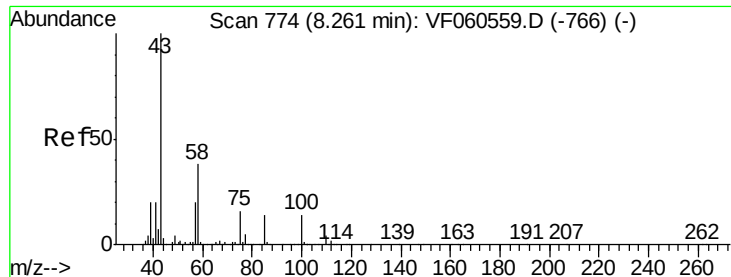
MMDadoda
11/5/2018 3:55:34 PM



#50
Toluene-d8
Concen: 20.189 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	210070		
100	75.8	59.4	89.2	





#51

4-Methyl-2-Pentanone

Concen: 136.100 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 220100

Ion Ratio Lower Upper

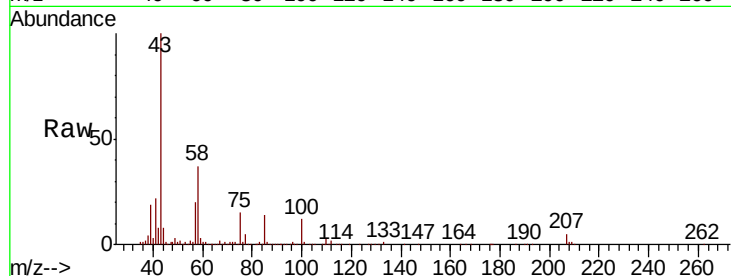
43 100

58 37.5 30.1 45.1

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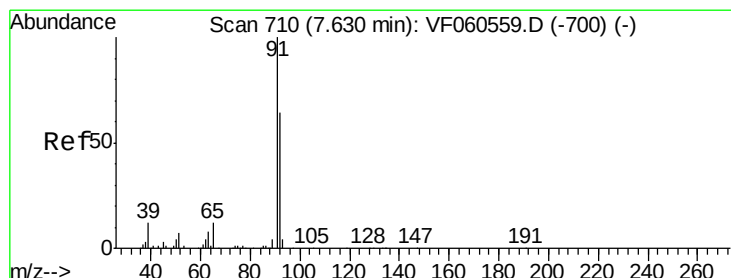
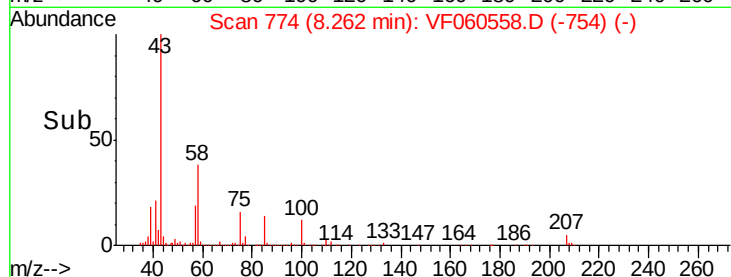
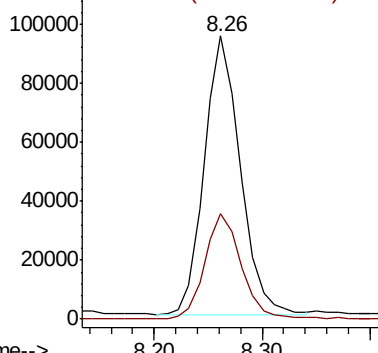
MMDadoda

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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: 22.965 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060558.D

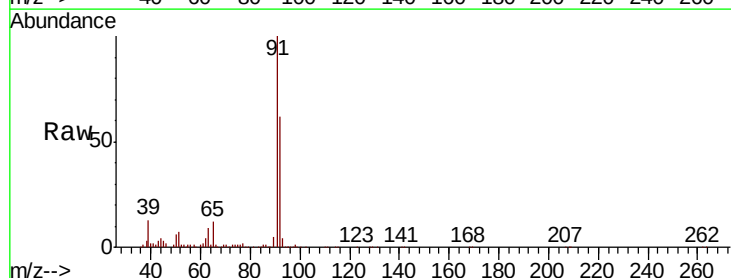
Acq: 2 Nov 2018 12:01

Tgt Ion: 92 Resp: 165878

Ion Ratio Lower Upper

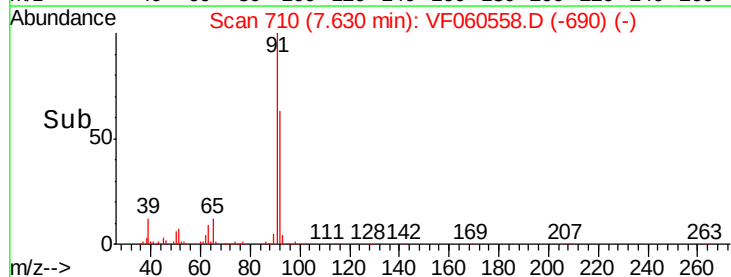
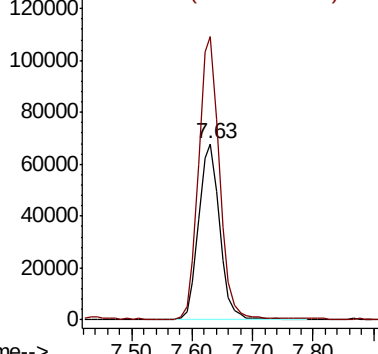
92 100

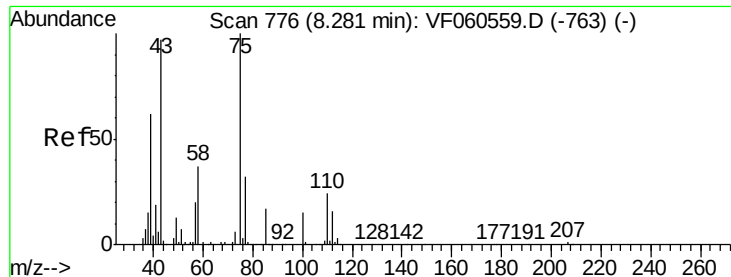
91 161.0 124.5 186.7



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: 20.632 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 87275

Ion Ratio Lower Upper

75 100

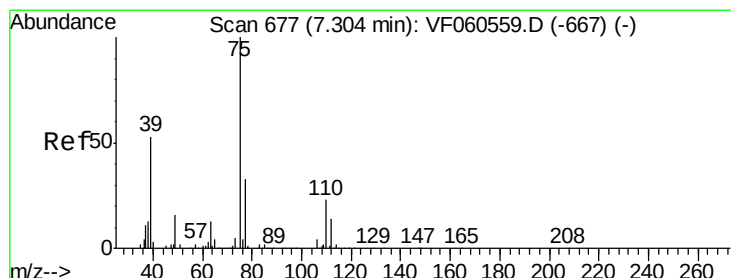
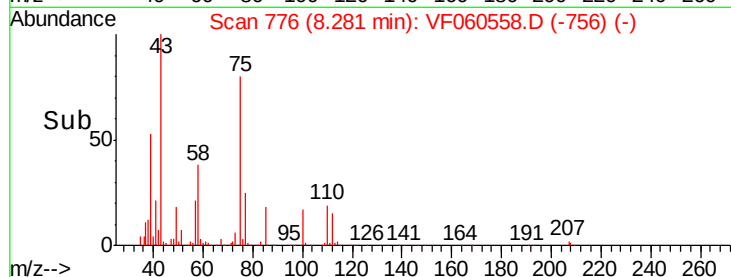
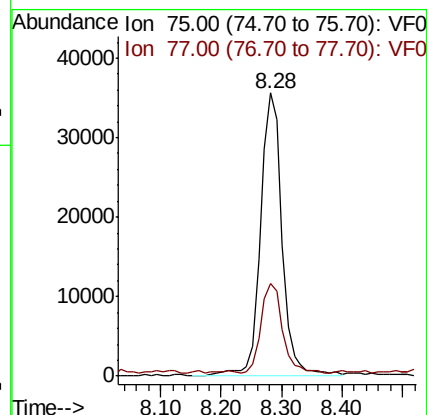
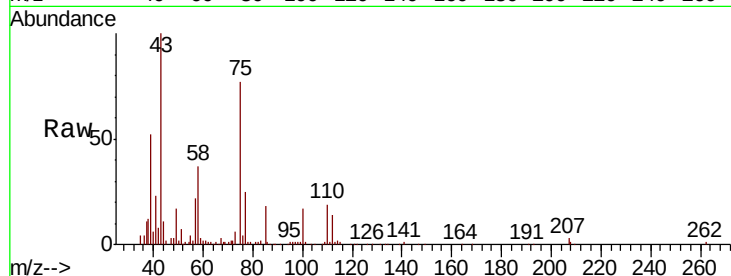
77 32.7 25.7 38.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.717 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

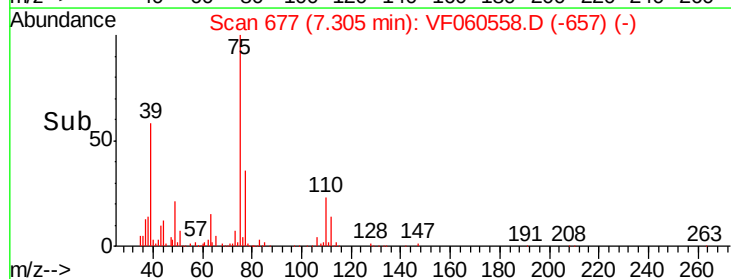
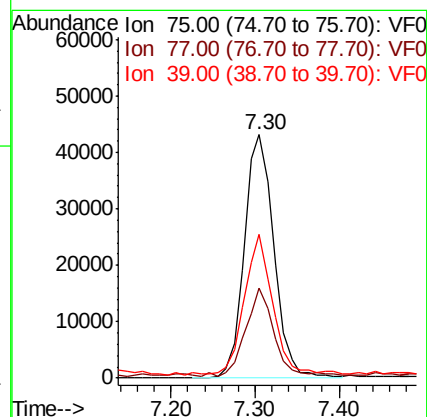
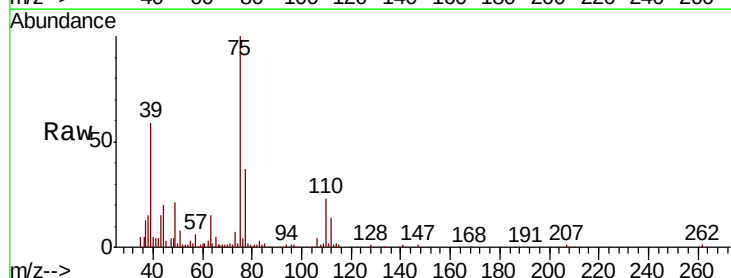
Tgt Ion: 75 Resp: 106191

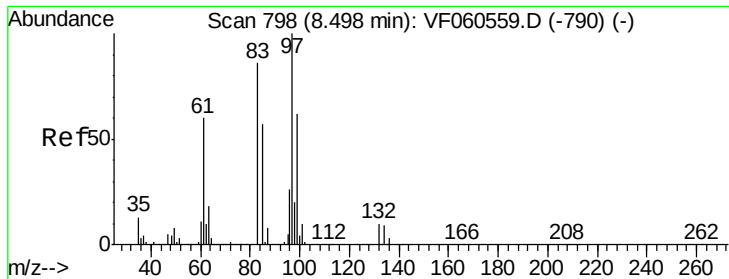
Ion Ratio Lower Upper

75 100

77 36.9 26.7 40.1

39 59.2 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 22.540 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

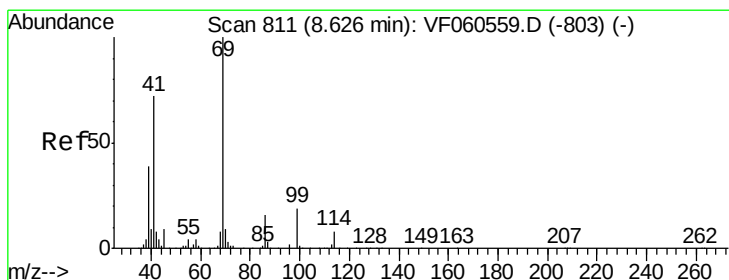
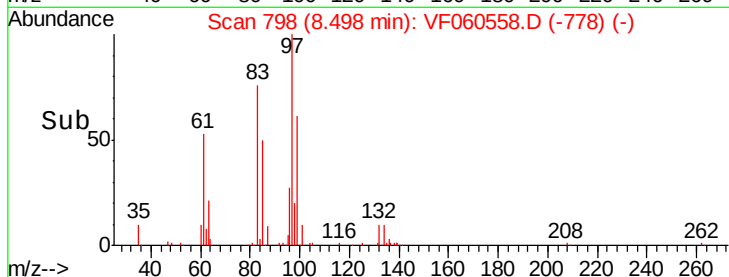
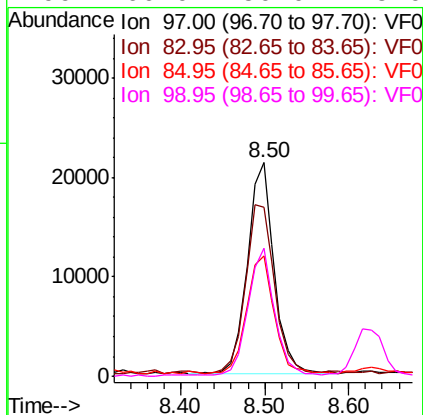
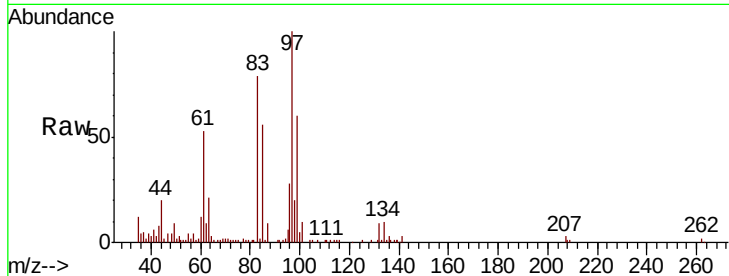
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	47732
Ion	Ratio	Lower	Upper
97	100		
83	79.4	69.4	104.0
85	56.4	46.6	69.8
99	60.0	50.0	75.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 26.202 ug/l

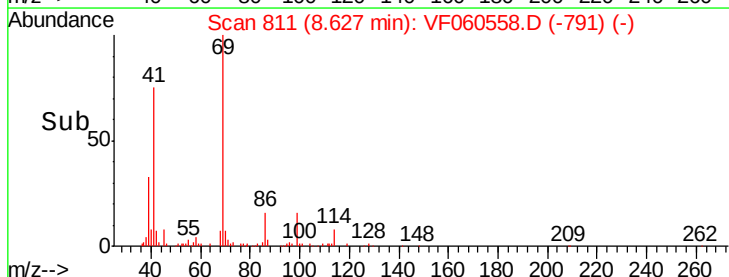
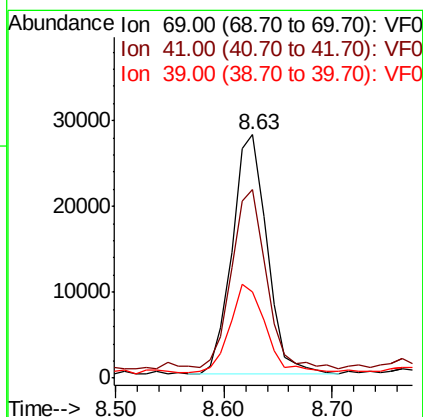
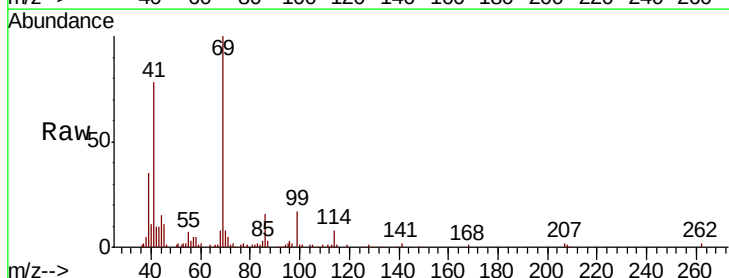
RT: 8.63 min Scan# 811

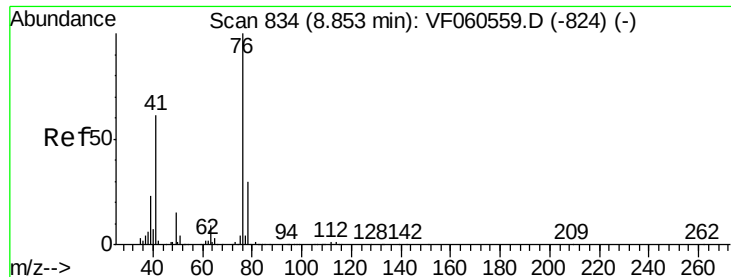
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	69	Resp:	62824
Ion	Ratio	Lower	Upper
69	100		
41	77.6	59.2	88.8
39	35.4	32.3	48.5





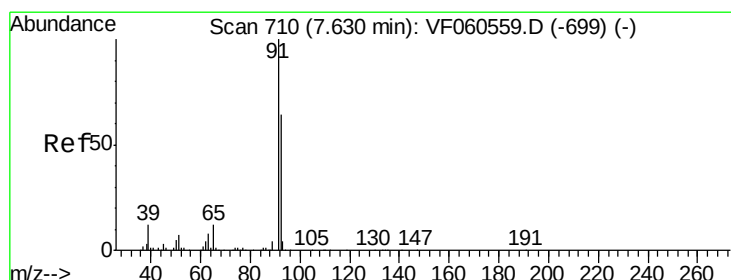
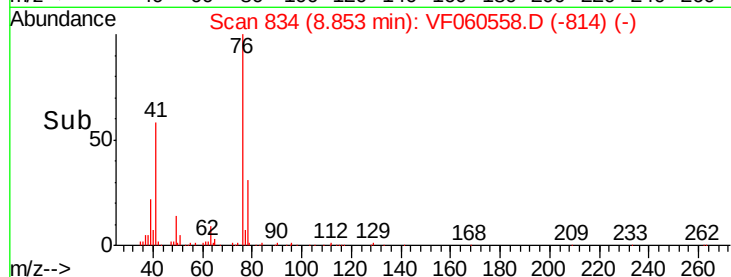
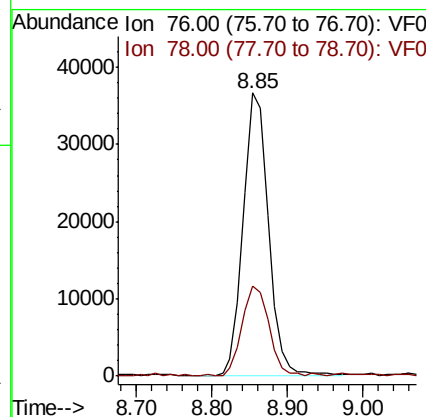
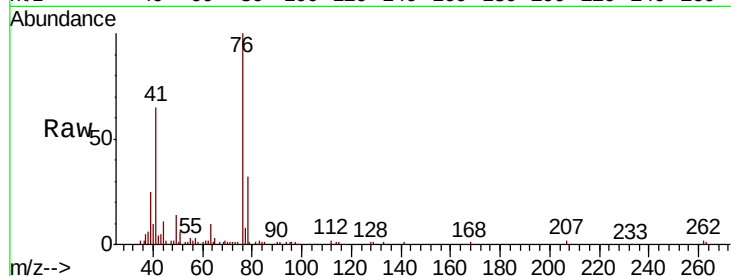
#57
 1,3-Dichloropropane
 Concen: 23.847 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.7	24.2	36.4

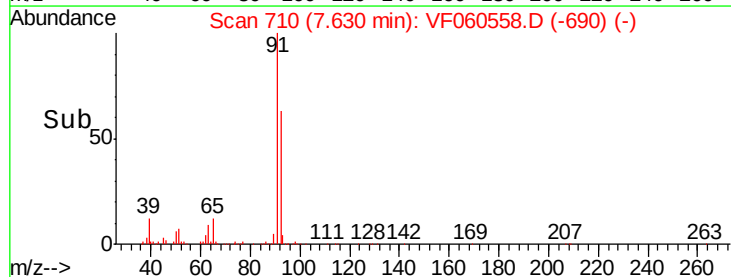
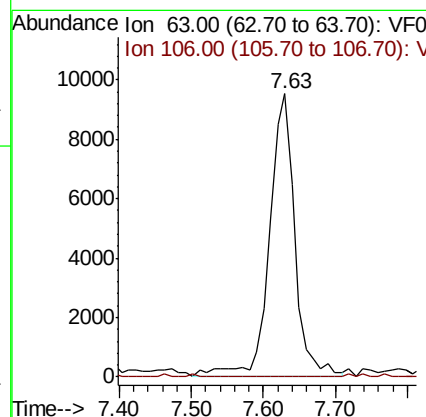
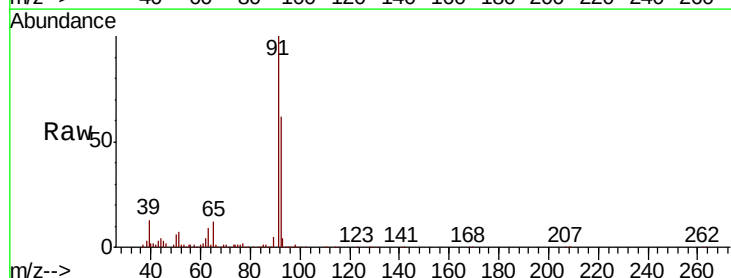
Manual Integrations
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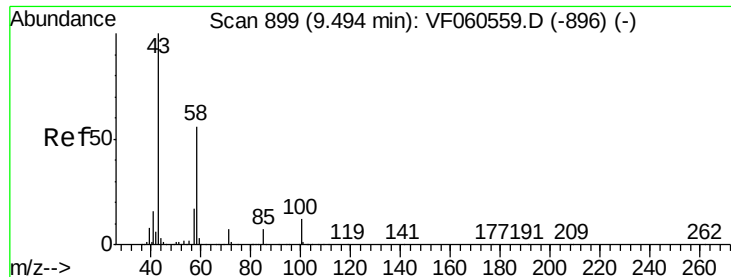
MMDadoda
 11/5/2018 3:55:34 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.676 ug/l
 RT: 7.63 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





#59

2-Hexanone

Concen: 152.218 ug/l

RT: 9.49 min Scan# 899

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 178301

Ion Ratio Lower Upper

43 100

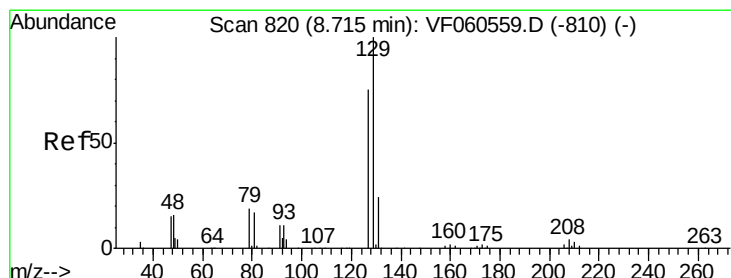
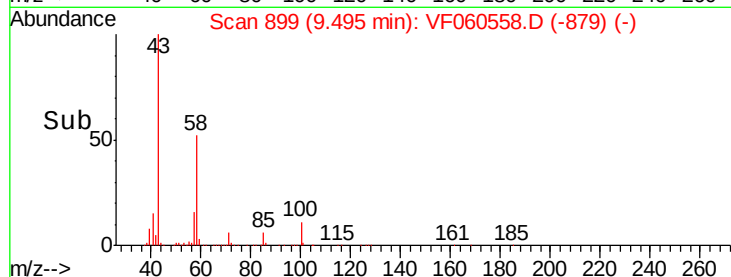
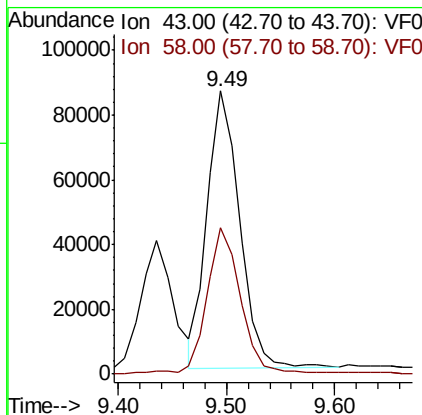
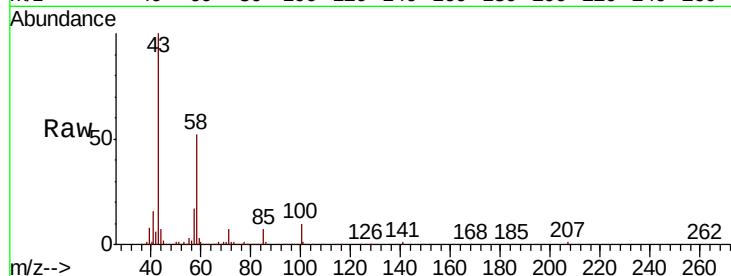
58 51.6 26.1 78.3

Manual Integrations

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11/5/2018 3:55:34 PM



#60

Dibromochloromethane

Concen: 20.130 ug/l

RT: 8.72 min Scan# 820

Delta R.T. 0.00 min

Lab File: VF060558.D

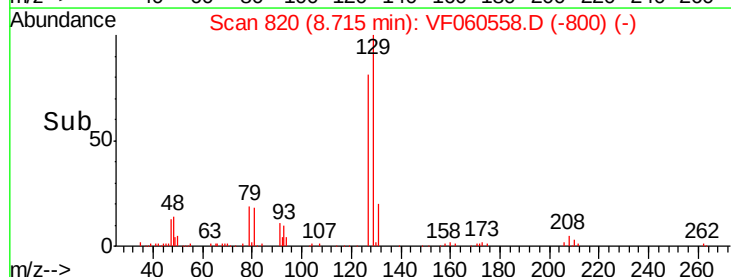
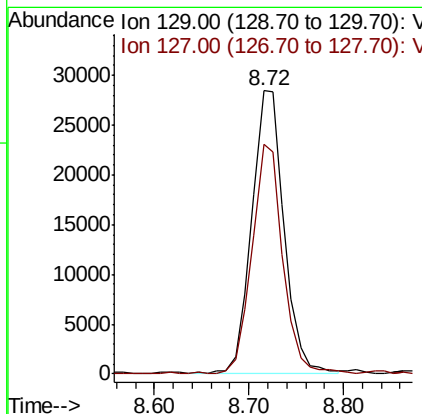
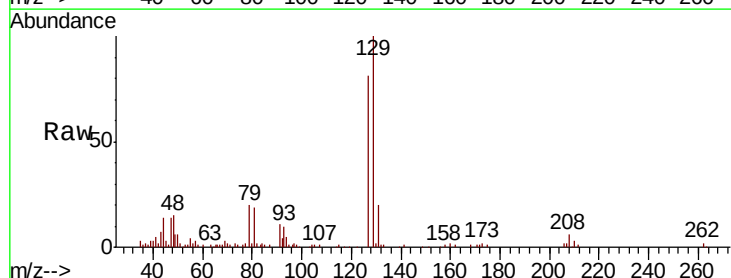
Acq: 2 Nov 2018 12:01

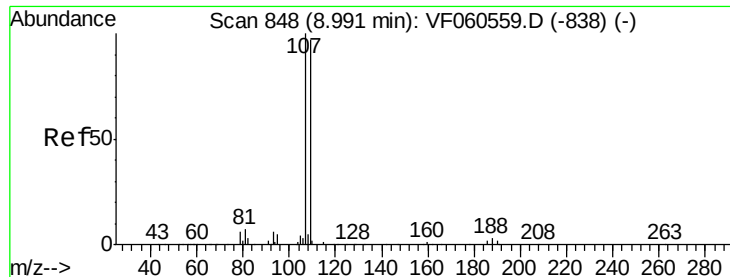
Tgt Ion: 129 Resp: 67815

Ion Ratio Lower Upper

129 100

127 81.0 37.8 113.3





#61

1,2-Dibromoethane

Concen: 20.498 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 50034

Ion Ratio Lower Upper

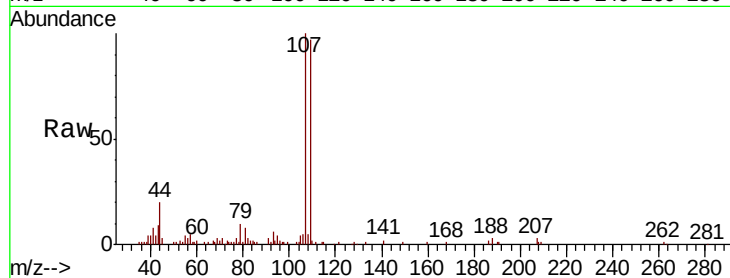
107 100

109 96.8 77.5 116.3

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

25000

20000

15000

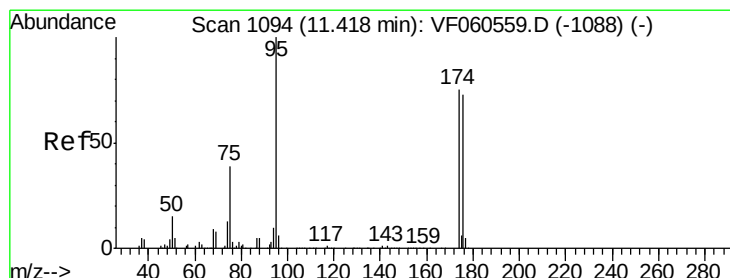
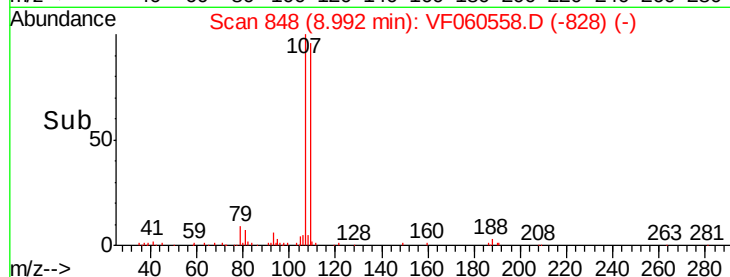
10000

5000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 20.126 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

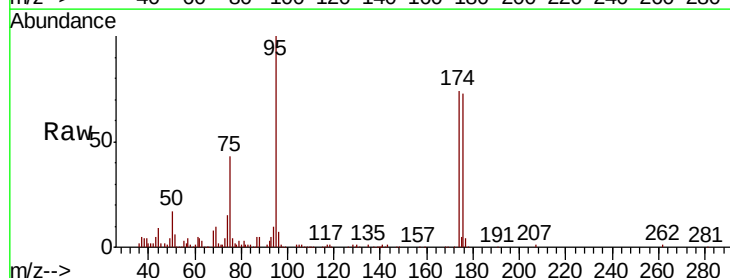
Tgt Ion: 95 Resp: 95739

Ion Ratio Lower Upper

95 100

174 74.0 0.0 149.0

176 73.3 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.42

60000

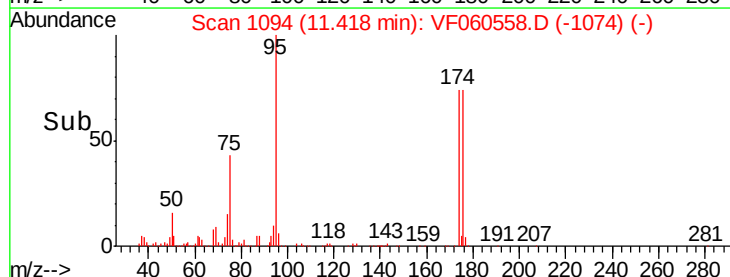
40000

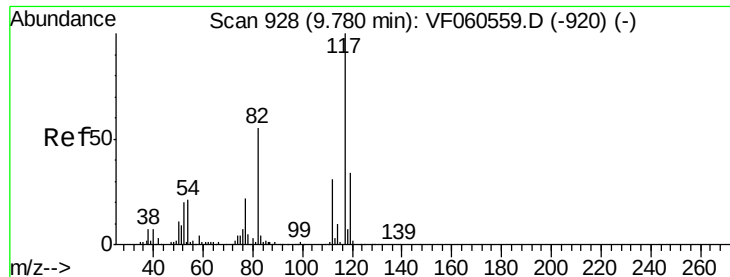
20000

0

Time-->

11.30 11.40 11.50 11.60





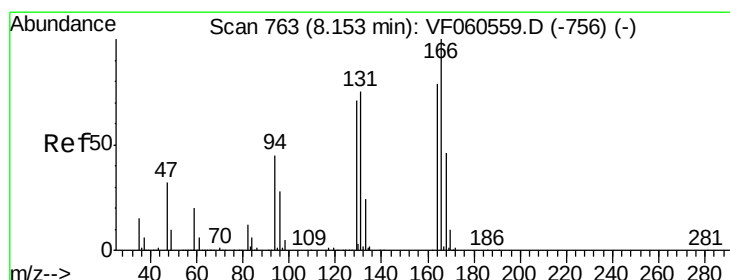
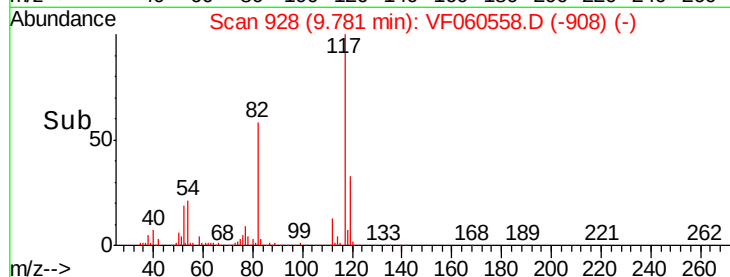
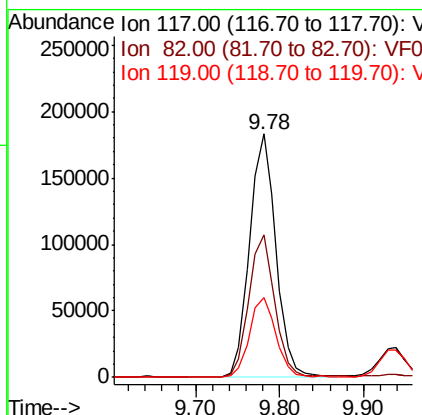
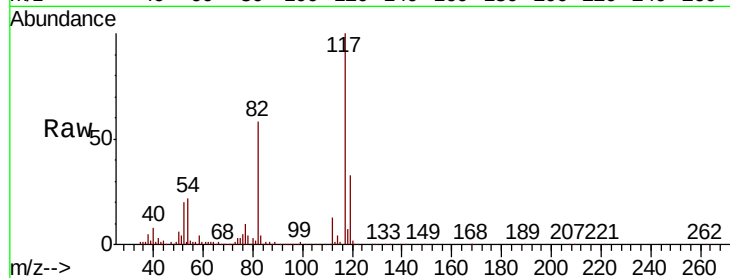
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	405362		
82	58.4		43.9	65.9
119	32.7		27.4	41.0

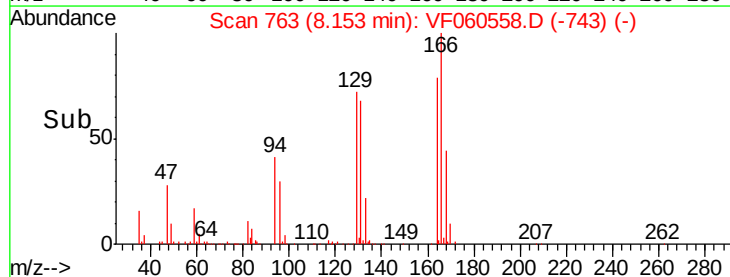
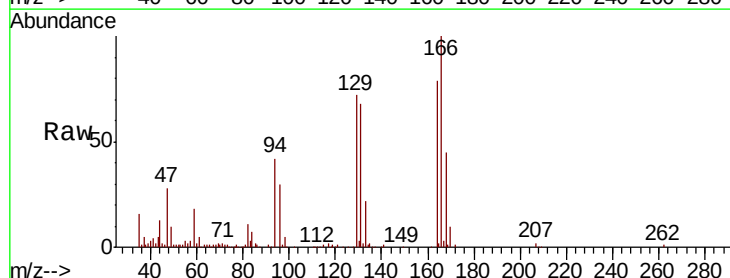
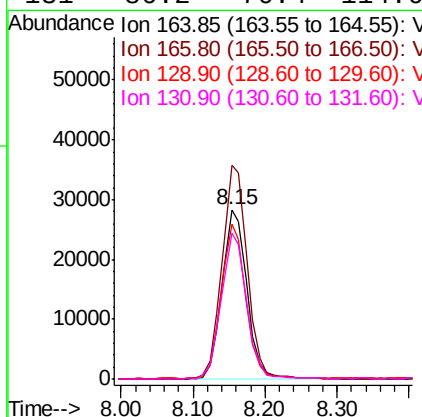
Manual Integrations
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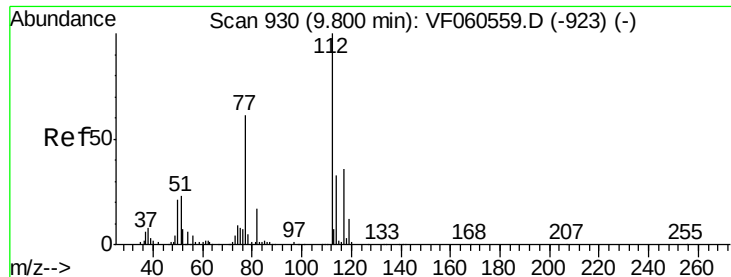
MMDadoda
11/5/2018 3:55:34 PM



#64
Tetrachloroethene
Concen: 20.012 ug/l
RT: 8.15 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	67505		
166	126.4		101.5	152.3
129	91.5		72.5	108.7
131	86.2		76.4	114.6





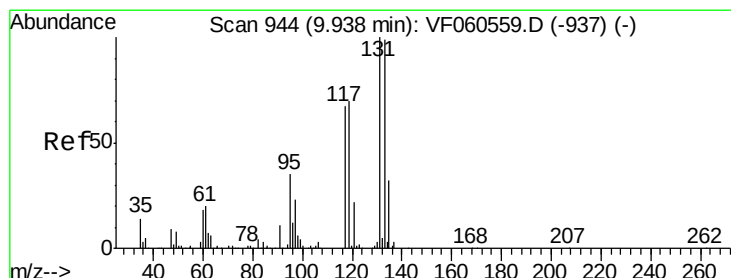
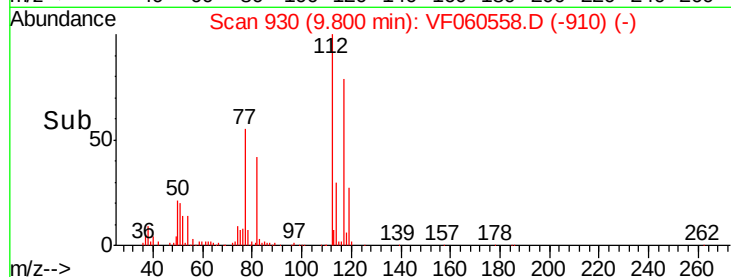
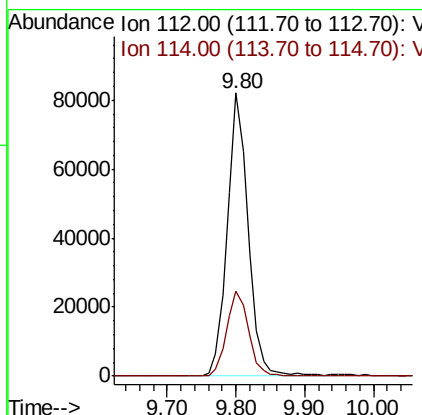
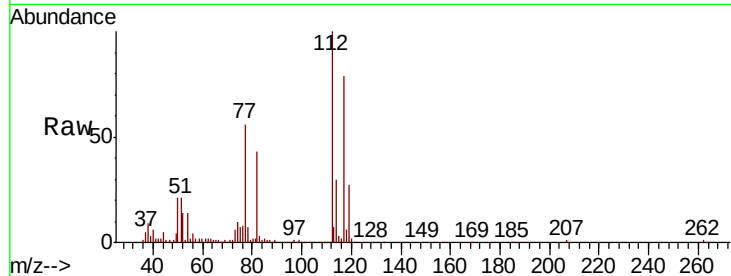
#65
Chlorobenzene
Concen: 21.355 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.2	26.6	40.0

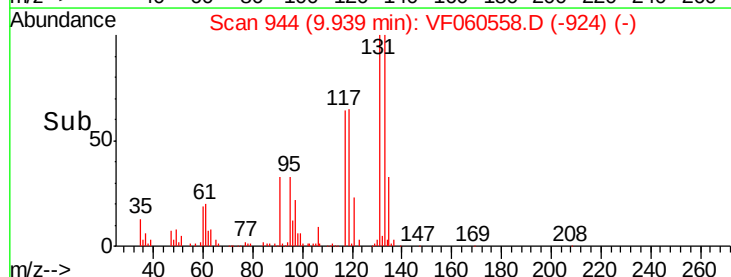
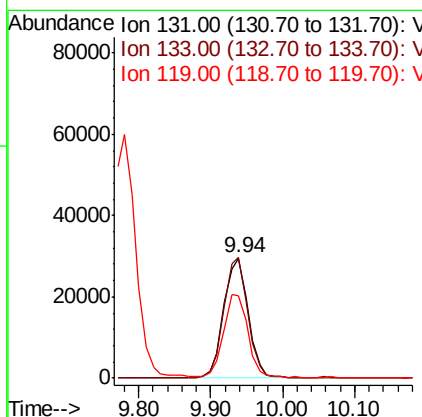
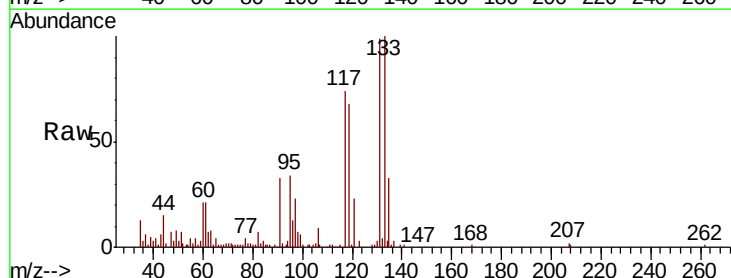
Manual Integrations
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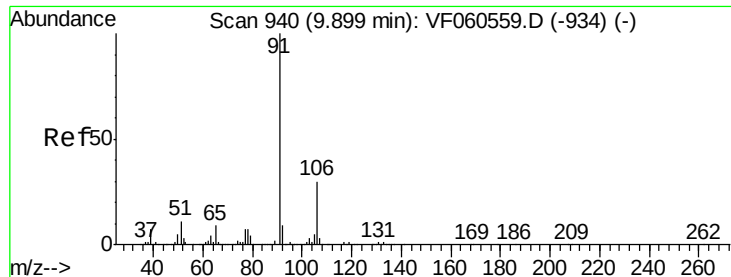
MMDadoda
11/5/2018 3:55:34 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.979 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.9	49.5	148.7
119	69.1	35.2	105.6





#67

Ethyl Benzene

Concen: 20.011 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 308779

Ion Ratio Lower Upper

91 100

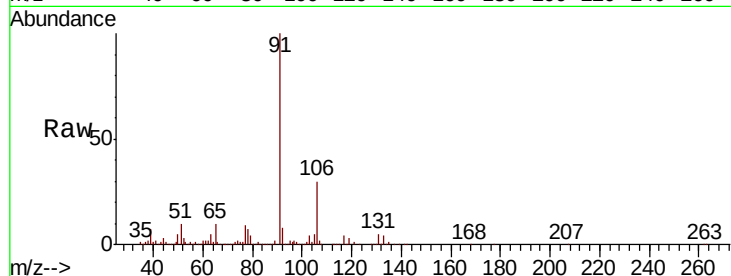
106 29.8 24.2 36.4

Manual Integrations

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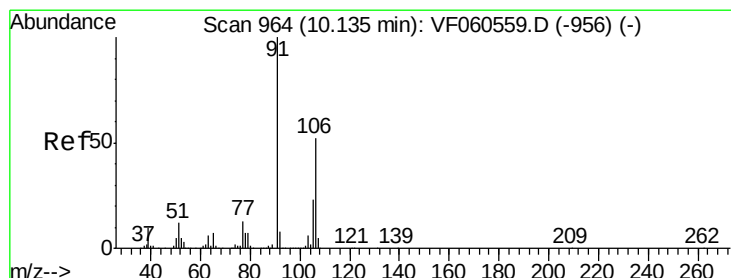
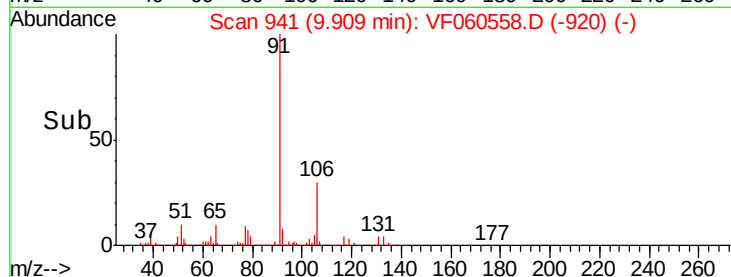
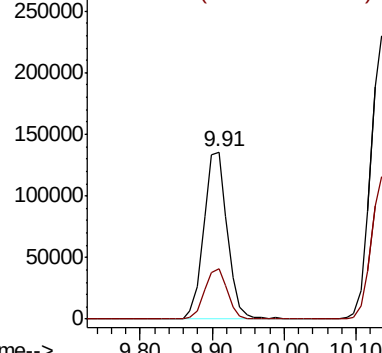
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 44.638 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF060558.D

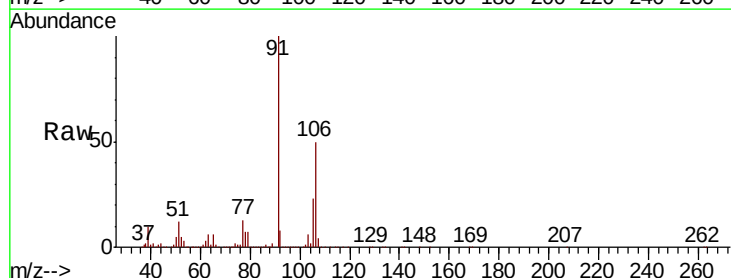
Acq: 2 Nov 2018 12:01

Tgt Ion: 106 Resp: 237957

Ion Ratio Lower Upper

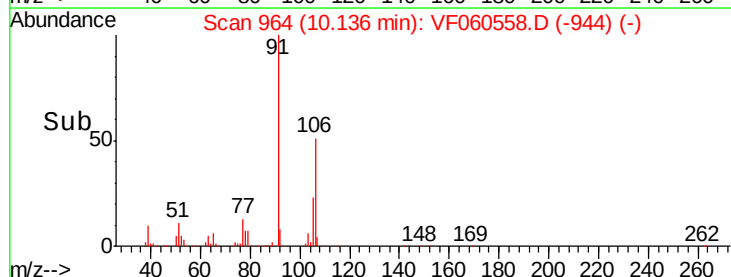
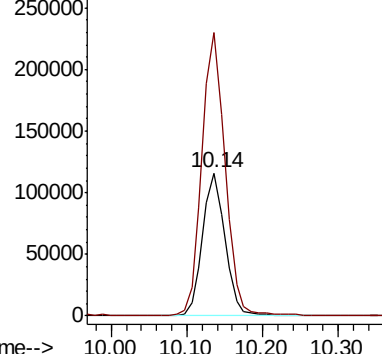
106 100

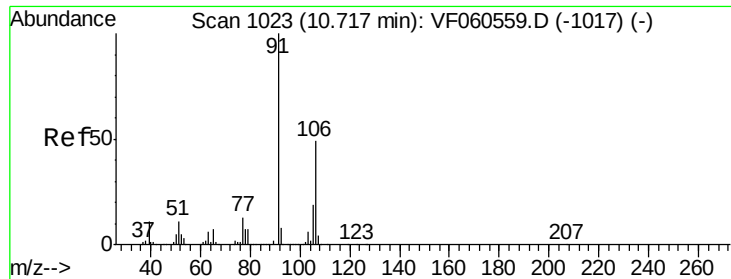
91 198.3 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





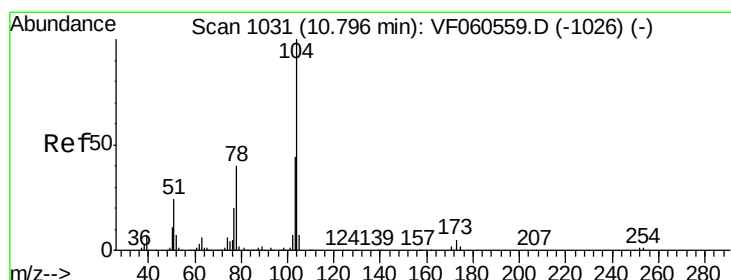
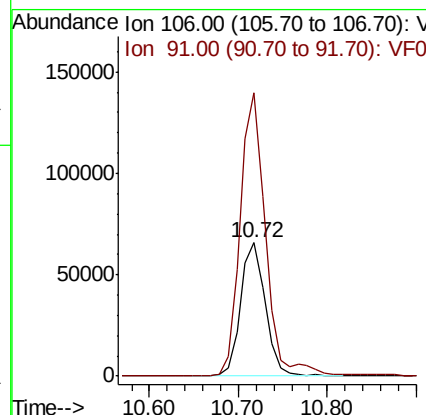
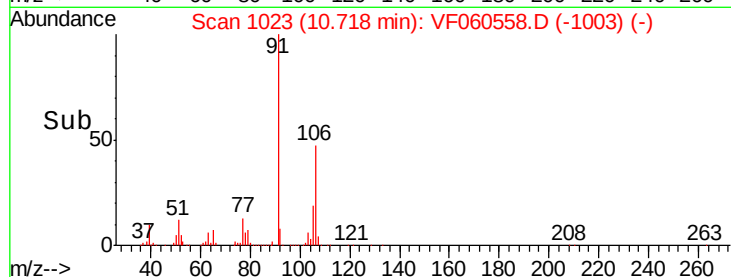
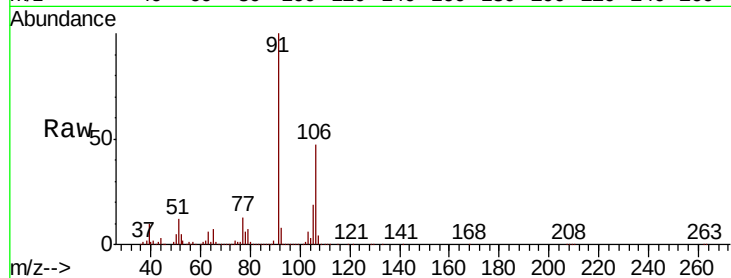
#69
o-Xylene
Concen: 21.400 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	127941		
91	91	212.6	101.8	305.3	

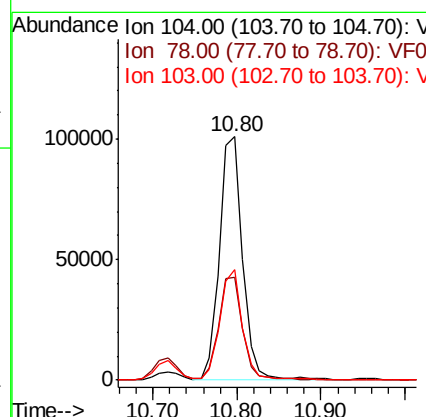
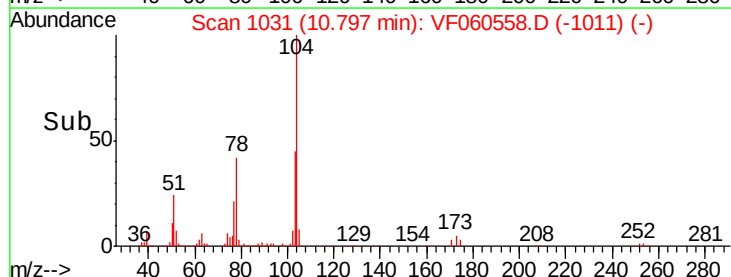
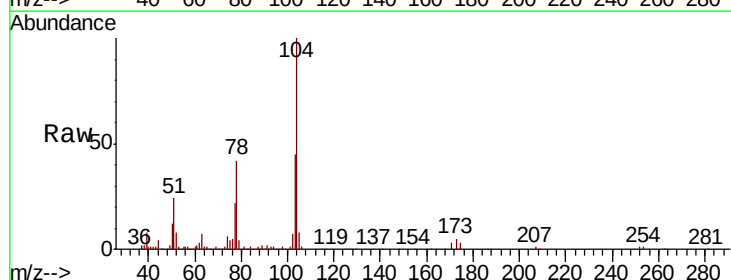
Manual Integrations
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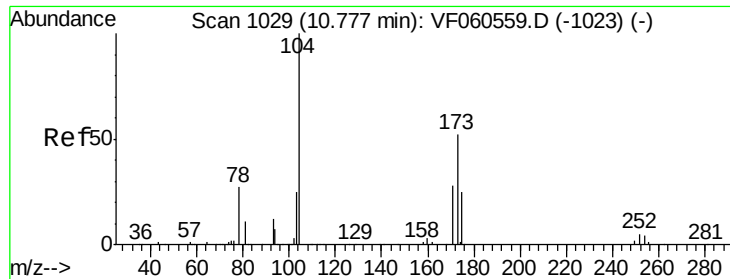
MMDadoda
11/5/2018 3:55:34 PM



#70
Styrene
Concen: 22.646 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	191625		
78	78	42.0	32.6	49.0	
103	103	45.2	35.2	52.8	





#71

Bromoform

Concen: 19.798 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 37134

Ion Ratio Lower Upper

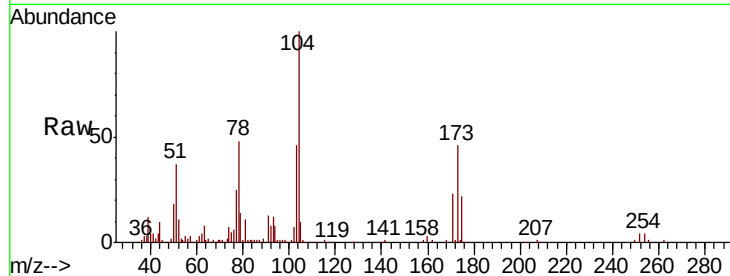
173 100

175 47.7 24.3 72.9

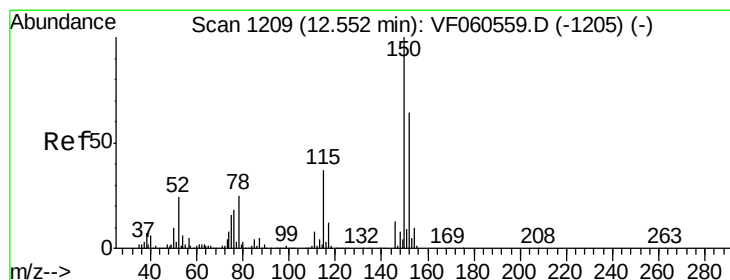
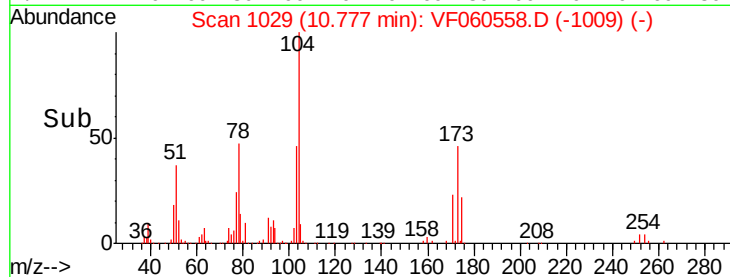
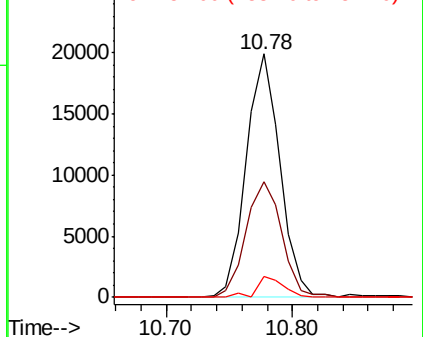
254 8.5 6.7 10.1

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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: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

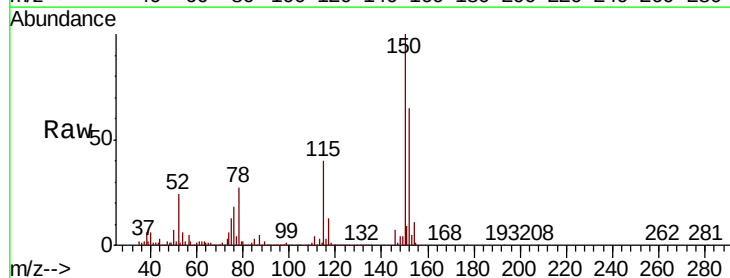
Tgt Ion:152 Resp: 221865

Ion Ratio Lower Upper

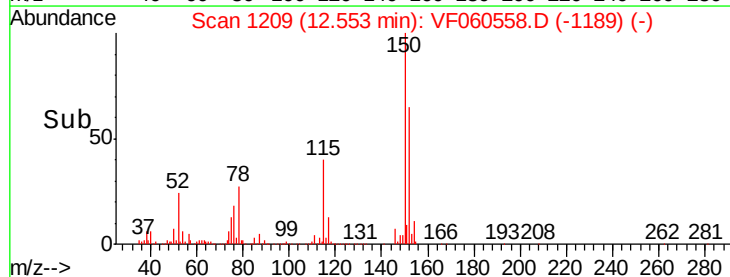
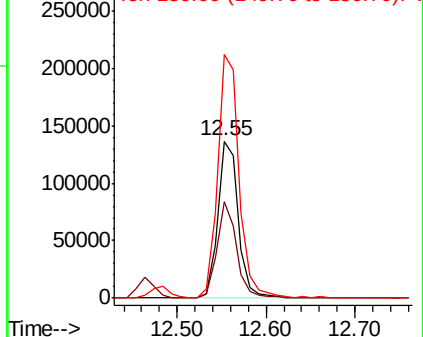
152 100

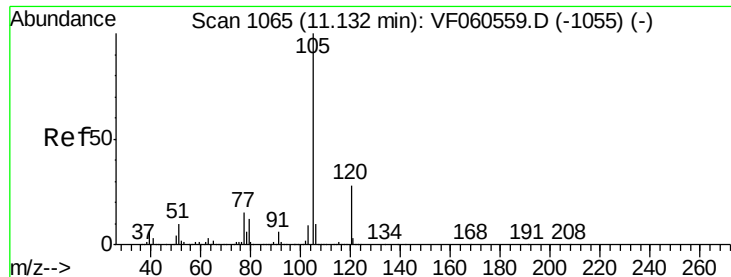
115 61.7 29.6 88.8

150 154.9 0.0 315.6



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: 21.578 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 370288

Ion Ratio Lower Upper

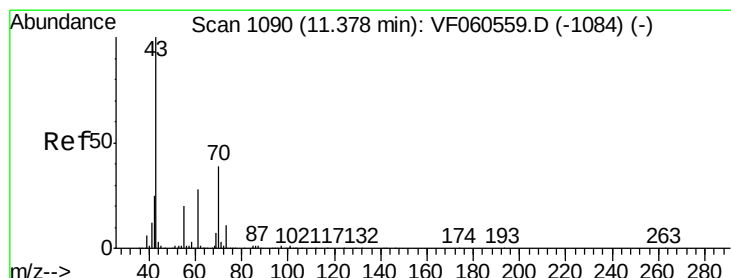
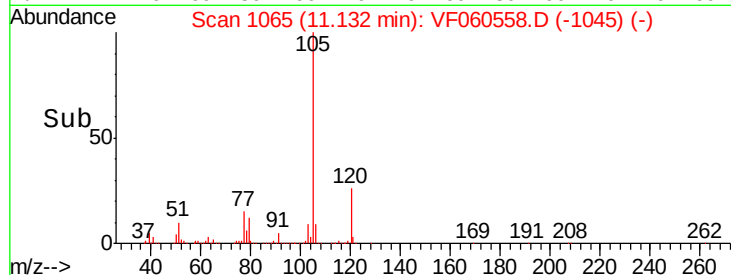
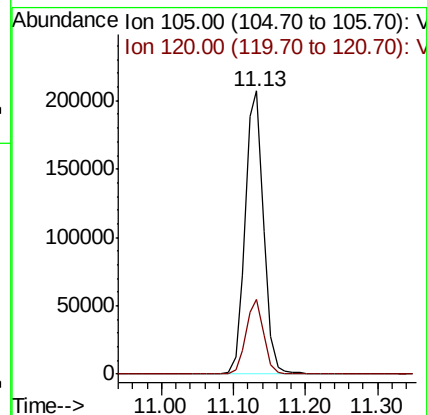
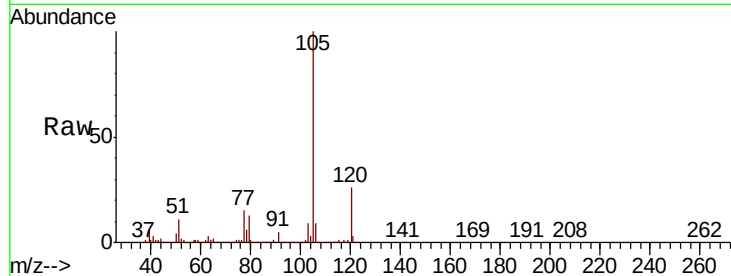
105 100

120 26.3 13.9 41.6

Manual Integrations
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#74

N-ethyl acetate

Concen: 28.416 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion: 43 Resp: 102154

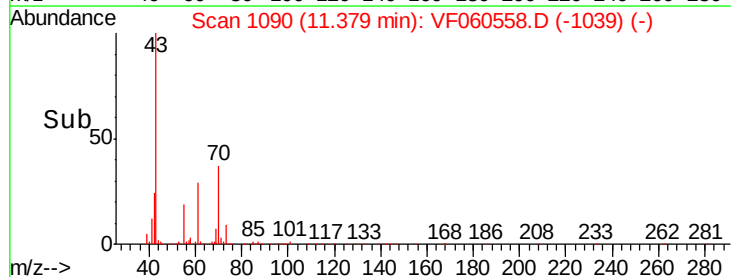
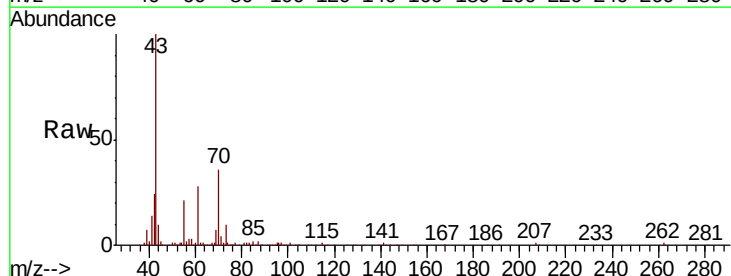
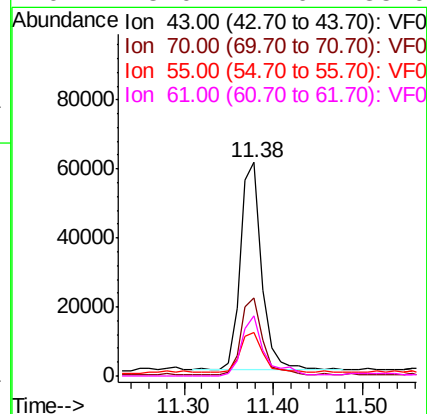
Ion Ratio Lower Upper

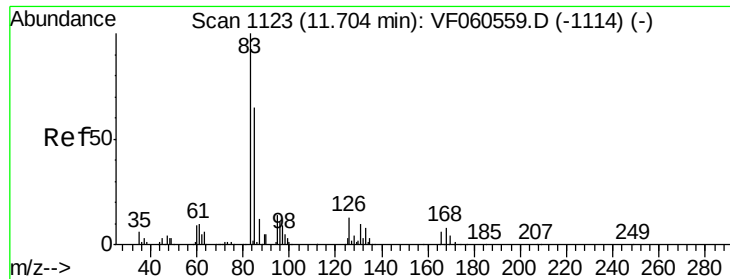
43 100

70 36.5 30.9 46.3

55 20.6 16.6 24.8

61 28.0 22.0 33.0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.021 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

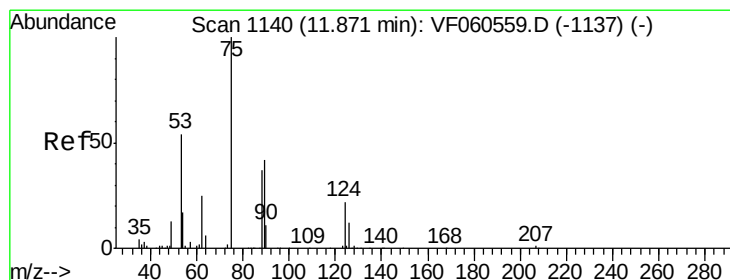
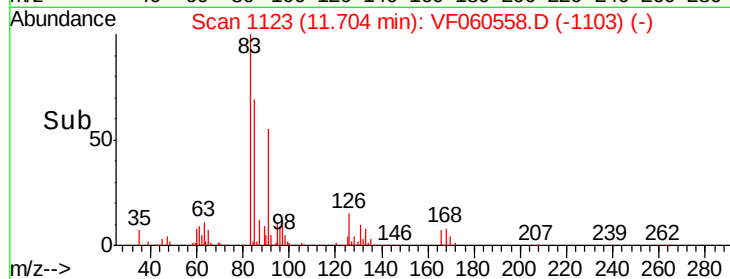
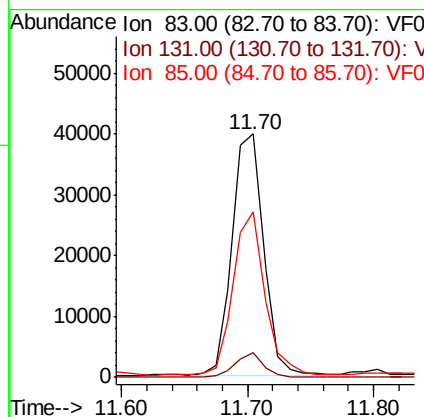
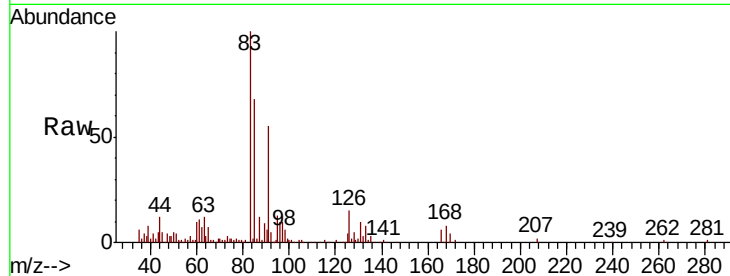
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	68985
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	14.9
85	67.8	32.9	98.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 16.149 ug/l

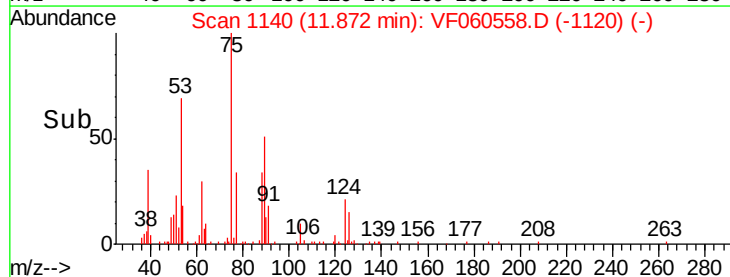
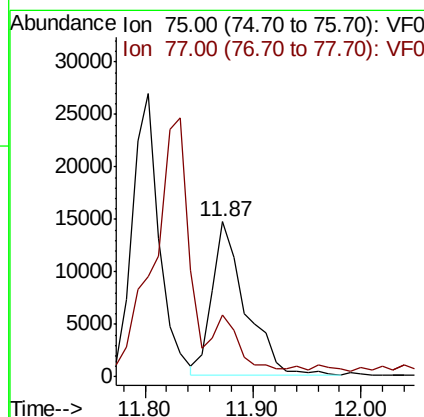
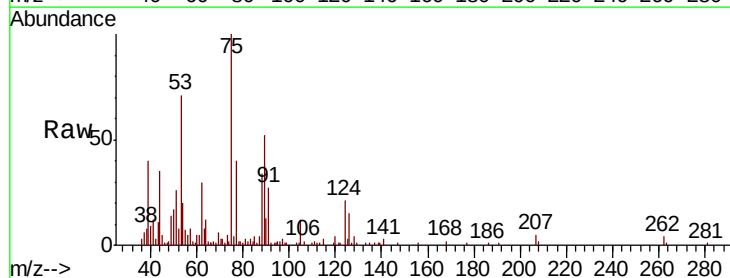
RT: 11.87 min Scan# 1140

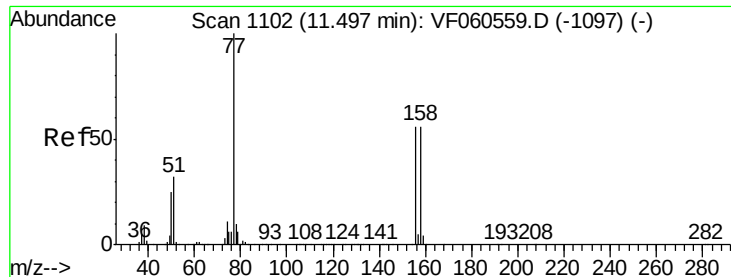
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	75	Resp:	31841
Ion Ratio	Lower	Upper	
75	100		
77	39.9	17.4	52.3





#77

Bromobenzene

Concen: 20.371 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

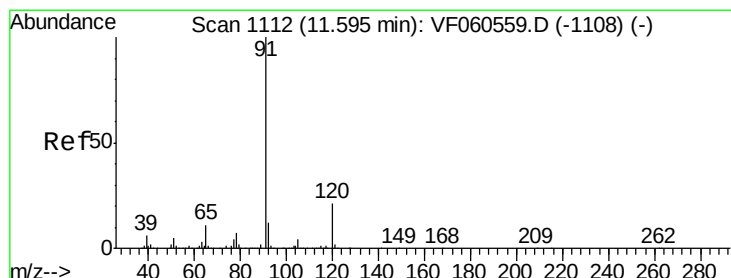
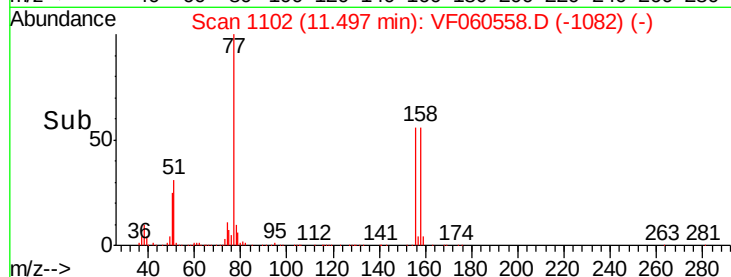
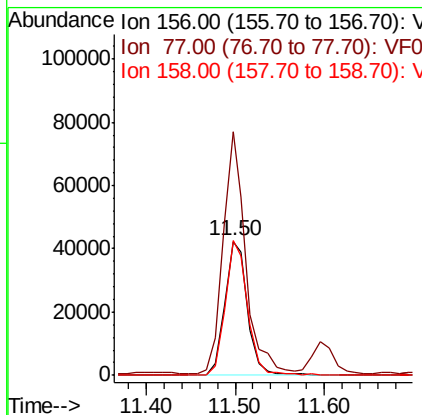
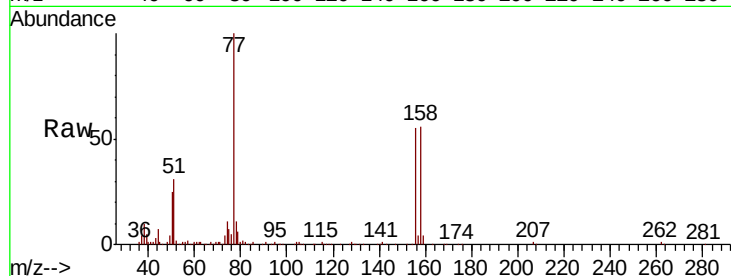
ClientSampled :

VSTDIC020

Tot Ion:	156	Resp:	76501
Ion	Ratio	Lower	Upper
156	100		
77	181.6	89.3	268.1
158	101.0	50.0	150.1

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#78

n-propylbenzene

Concen: 21.062 ug/l

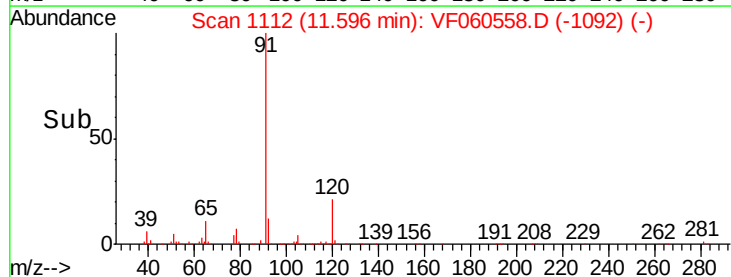
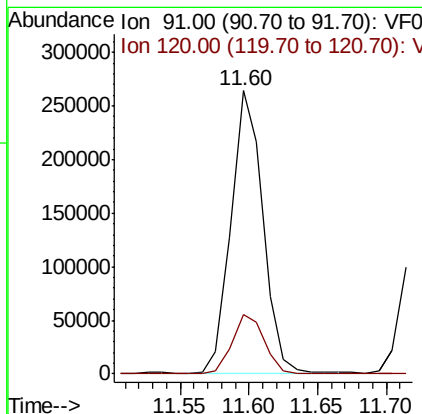
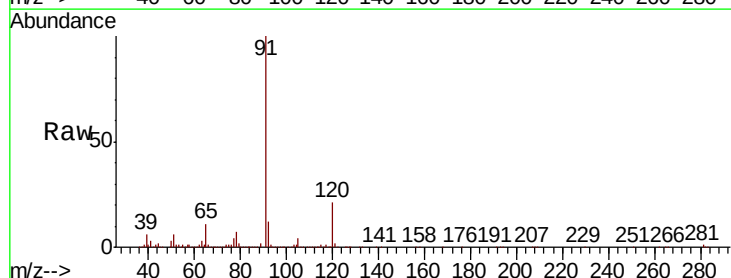
RT: 11.60 min Scan# 1112

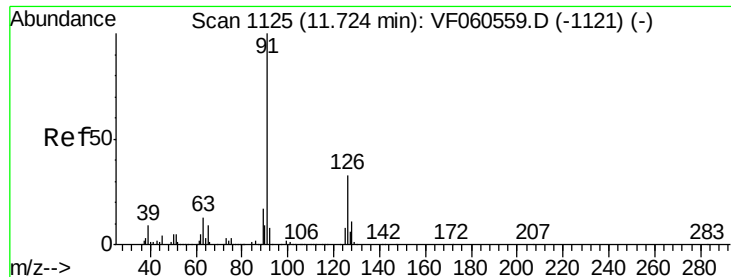
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	91	Resp:	425914
Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.5	31.6





#79

2-Chlorotoluene

Concen: 20.128 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 242358

Ion Ratio Lower Upper

91 100

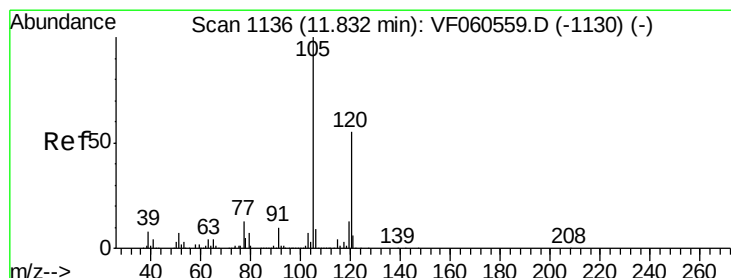
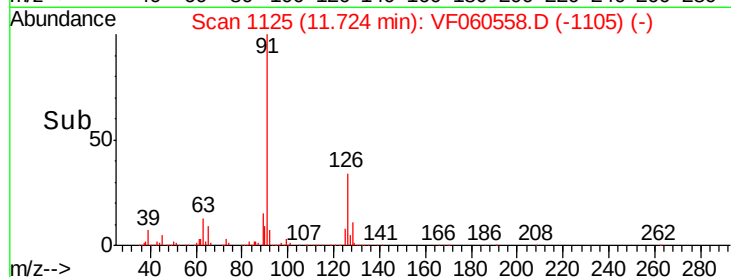
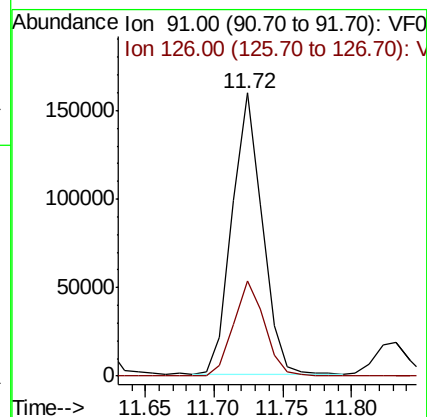
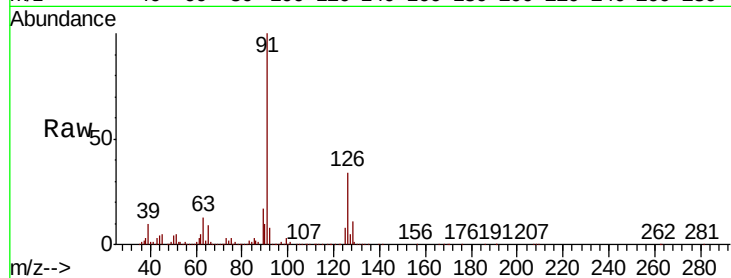
126 33.7 16.5 49.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.364 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060558.D

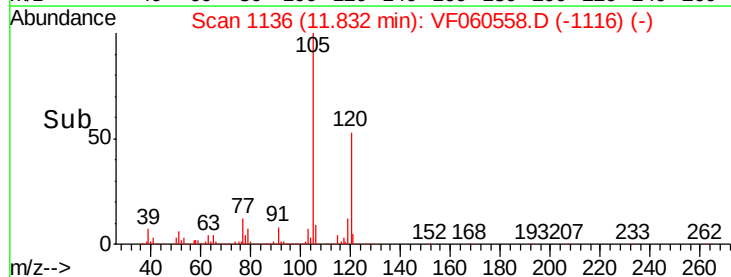
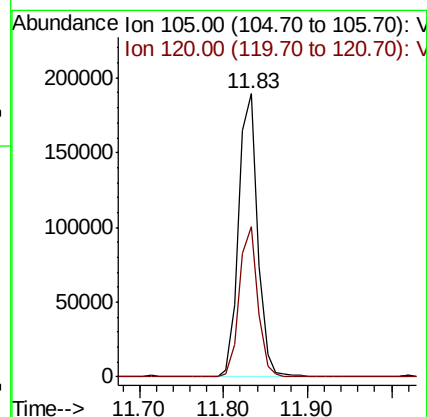
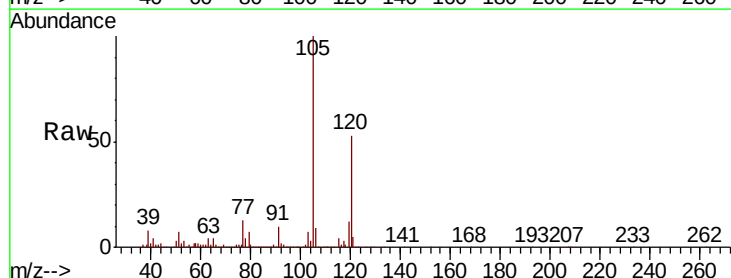
Acq: 2 Nov 2018 12:01

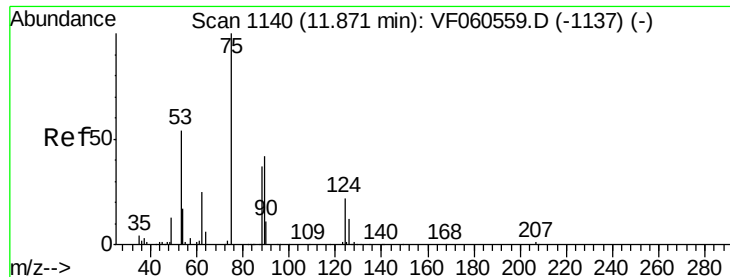
Tgt Ion: 105 Resp: 298106

Ion Ratio Lower Upper

105 100

120 53.2 27.6 82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 26.159 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

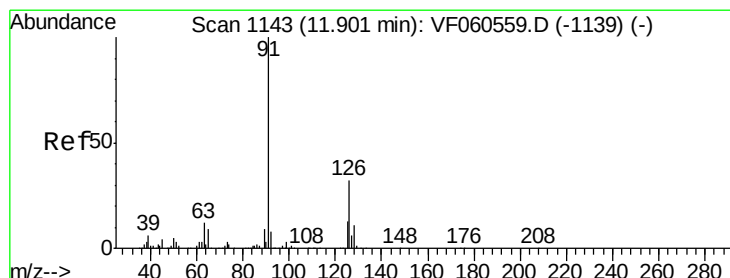
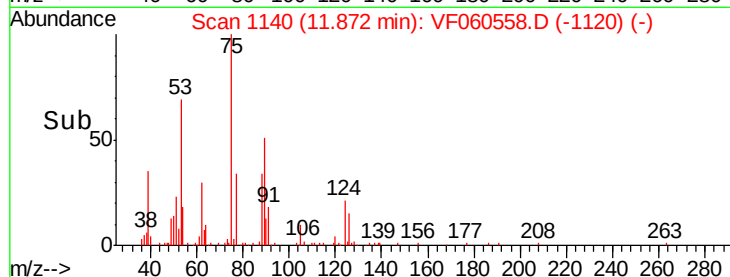
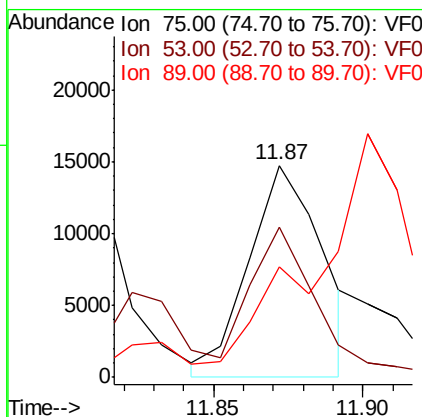
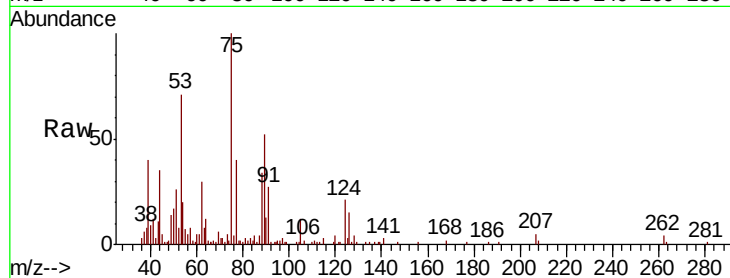
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	25182
Ion	Ratio	Lower	Upper
75	100		
53	71.1	51.6	77.4
89	52.2	36.7	55.1

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#82

4-Chlorotoluene

Concen: 20.355 ug/l

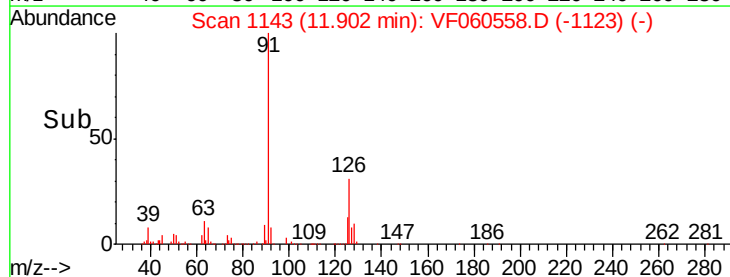
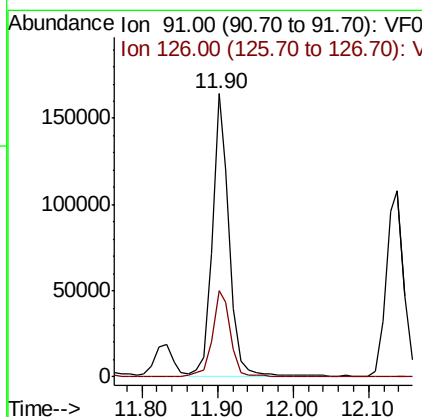
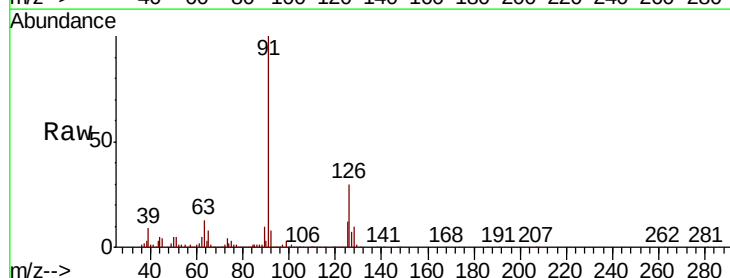
RT: 11.90 min Scan# 1143

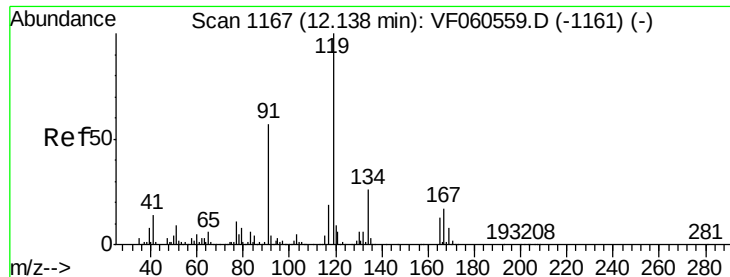
Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Tgt Ion:	91	Resp:	253053
Ion	Ratio	Lower	Upper
91	100		
126	30.4	15.9	47.7





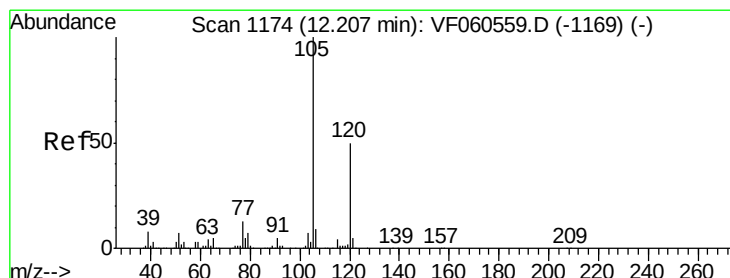
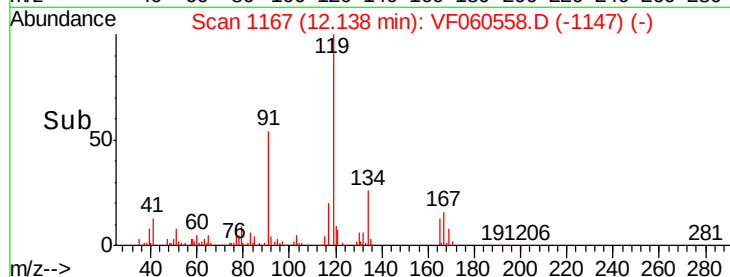
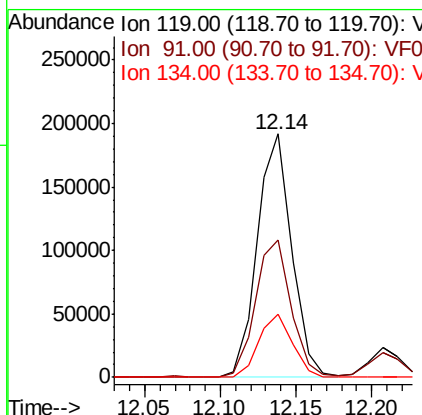
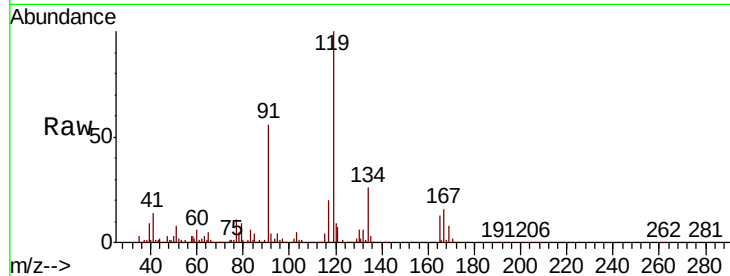
#83
 tert-Butylbenzene
 Concen: 21.101 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	303513		
91	56.3		28.8	86.4
134	25.8		13.2	39.6

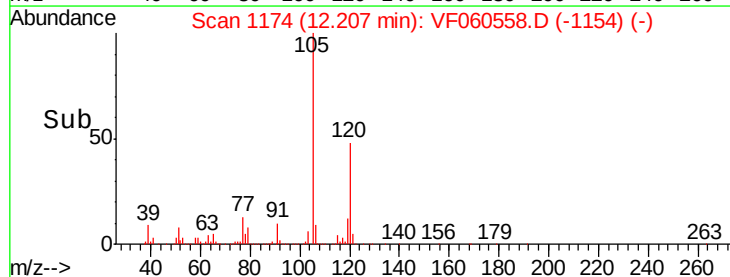
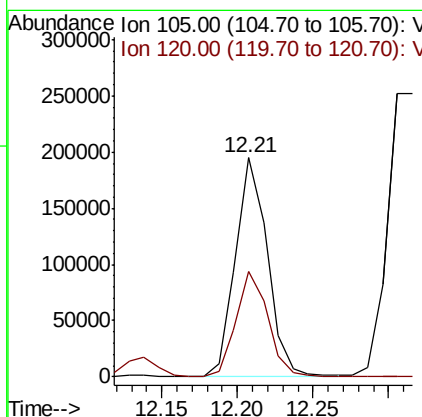
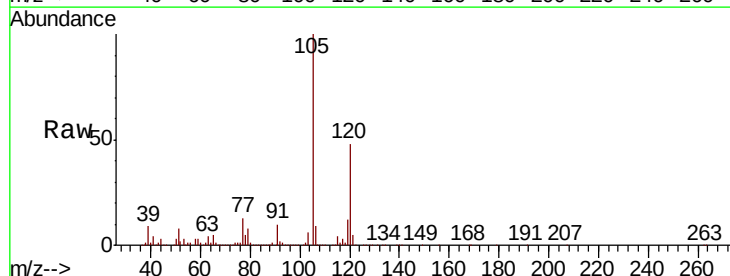
Manual Integrations
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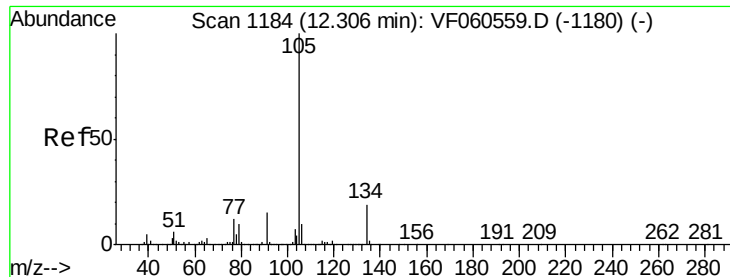
MMDadoda
 11/5/2018 3:55:34 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.265 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	286505		
120	47.9		25.6	76.8





#85

sec-Butylbenzene

Concen: 20.748 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 418322

Ion Ratio Lower Upper

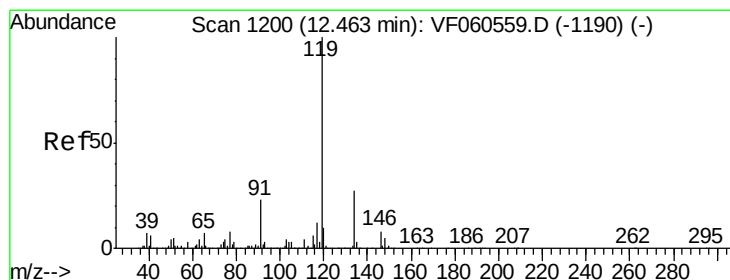
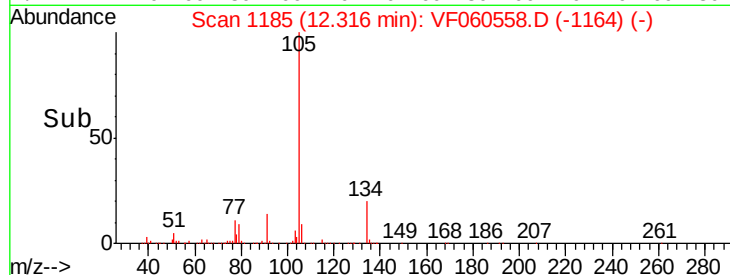
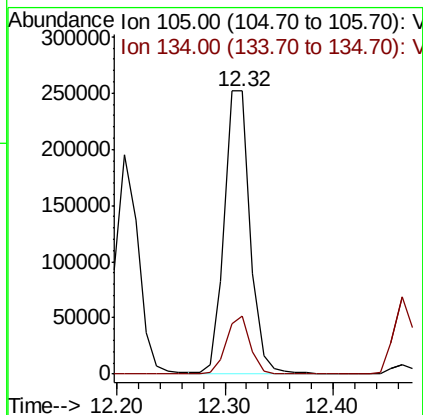
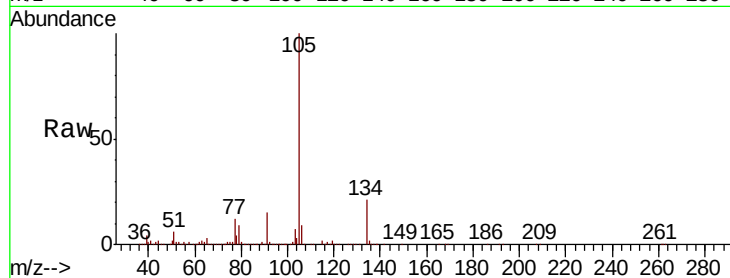
105 100

134 20.7 9.7 29.1

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 21.615 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF060558.D

Acq: 2 Nov 2018 12:01

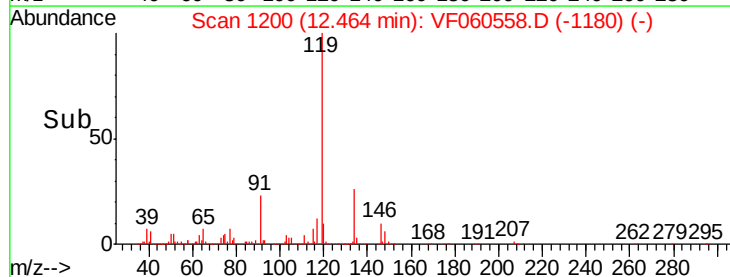
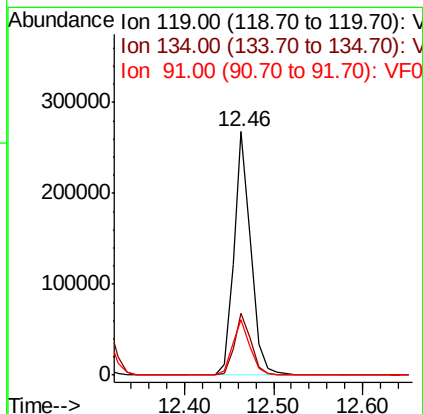
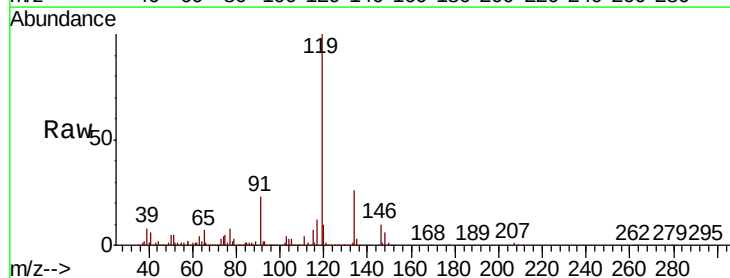
Tgt Ion:119 Resp: 357382

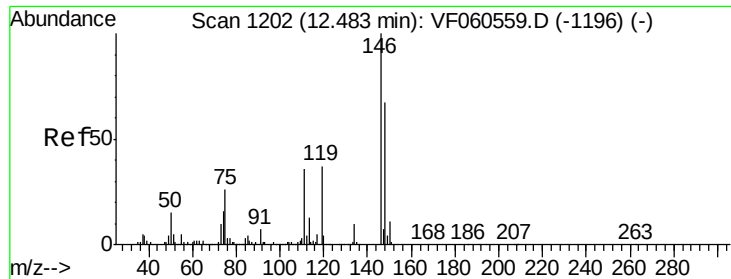
Ion Ratio Lower Upper

119 100

134 25.6 13.6 40.7

91 22.8 11.4 34.2





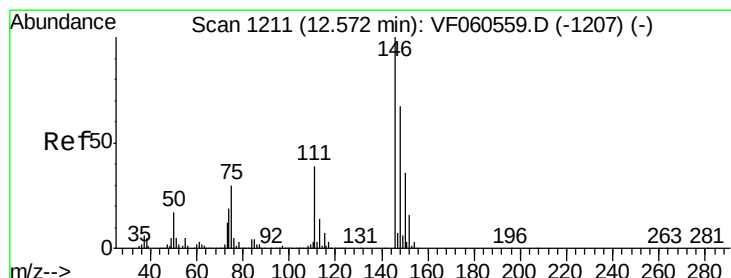
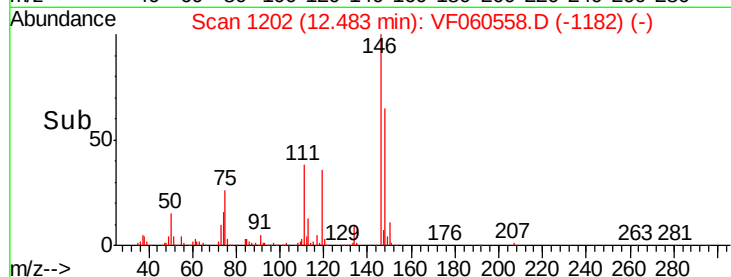
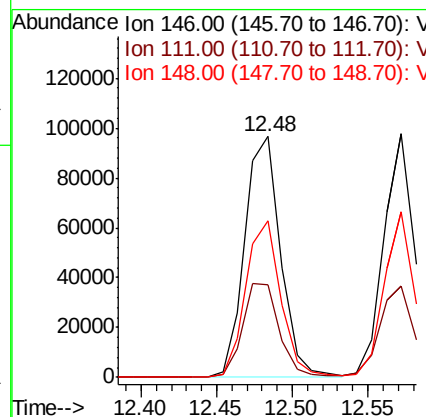
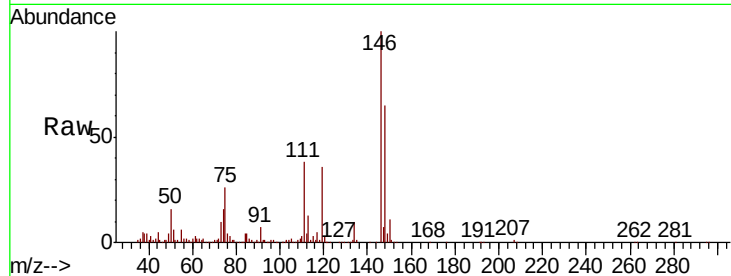
#87
 1,3-Dichlorobenzene
 Concen: 21.238 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.3	54.8
148	65.0	33.5	100.4

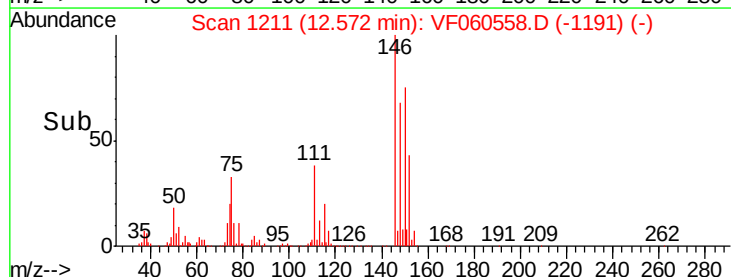
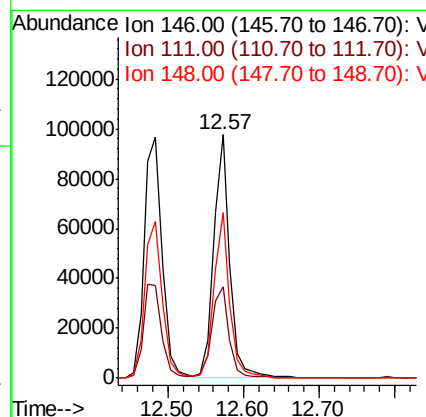
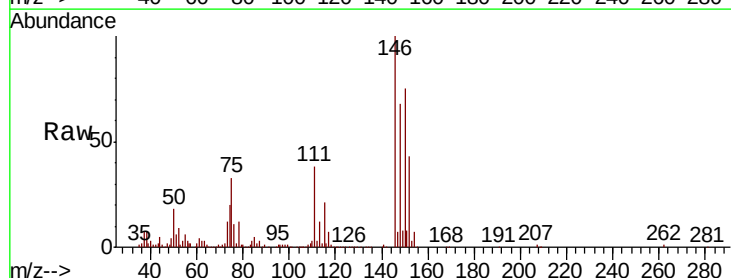
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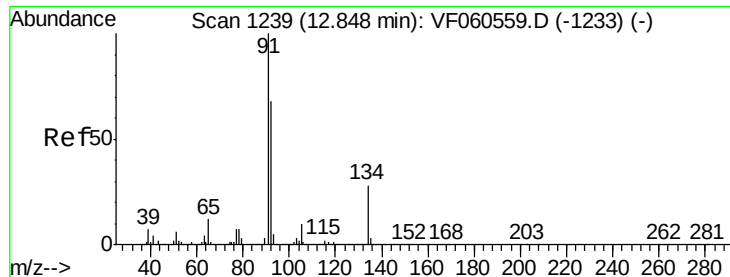
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#88
 1,4-Dichlorobenzene
 Concen: 20.513 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.1
148	68.2	33.7	101.1





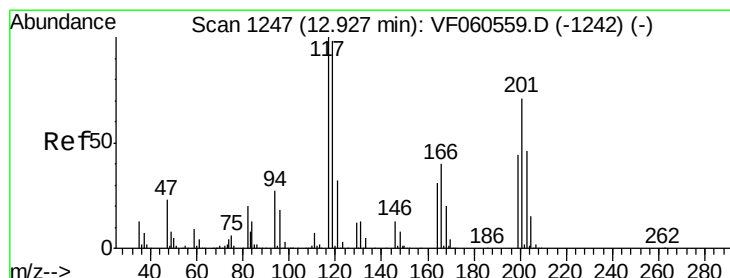
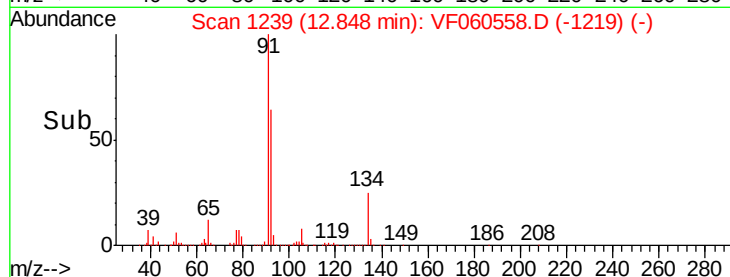
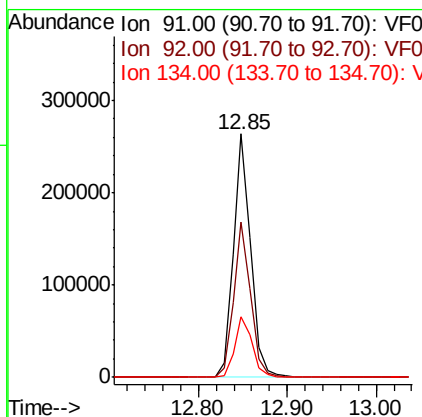
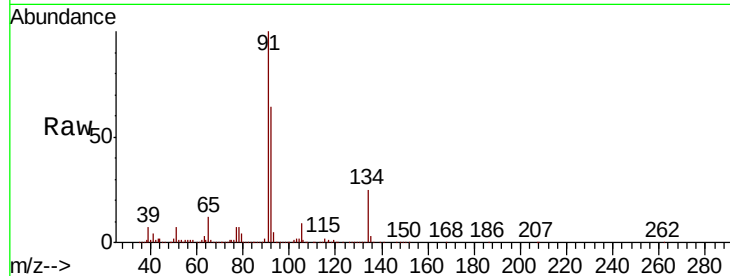
#89
n-Butylbenzene
Concen: 20.840 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.7	34.1	102.2
134	24.8	13.9	41.6

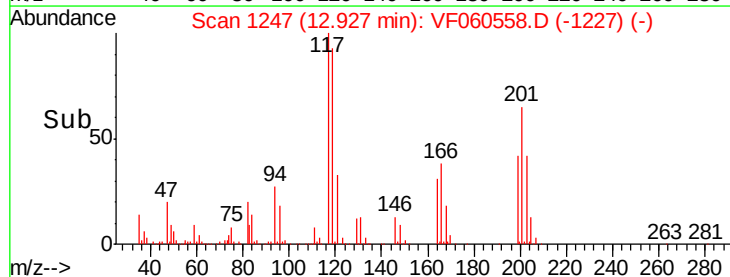
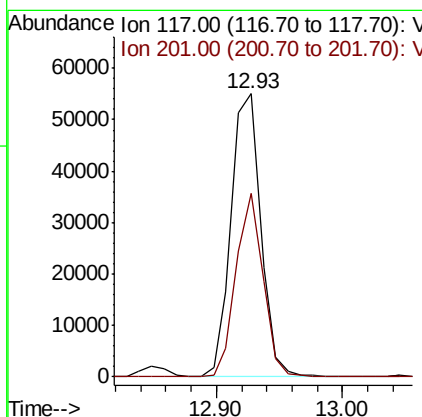
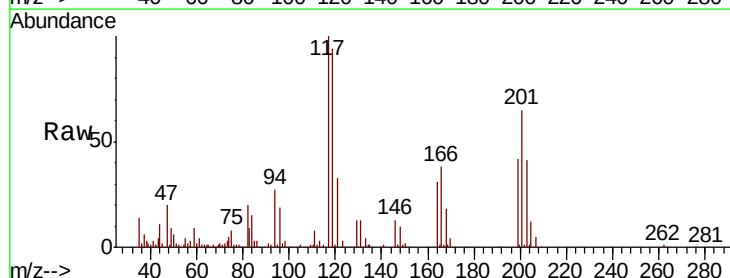
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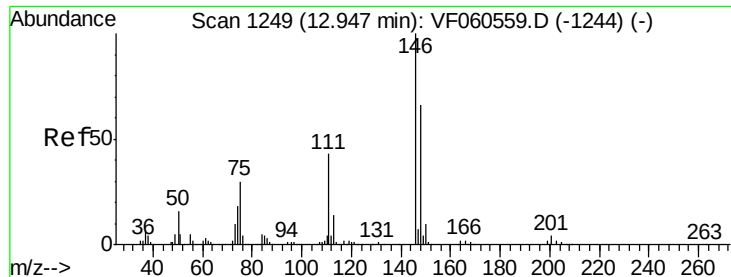
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#90
Hexachloroethane
Concen: 20.974 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.0	35.2	105.6





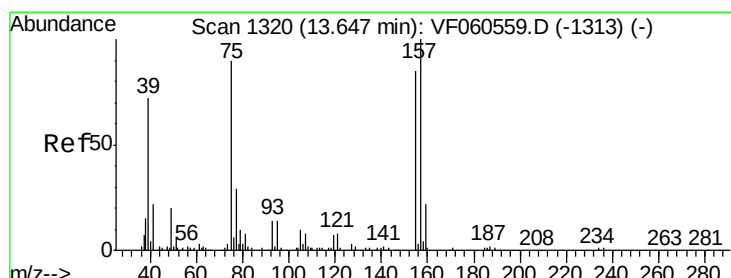
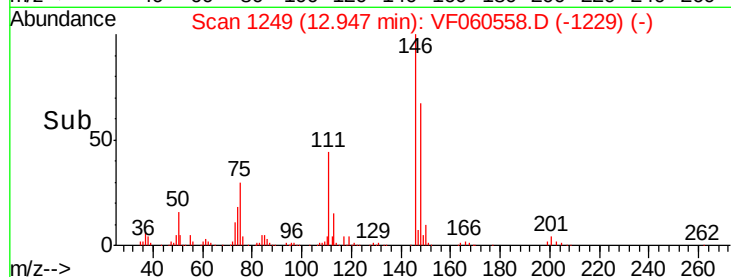
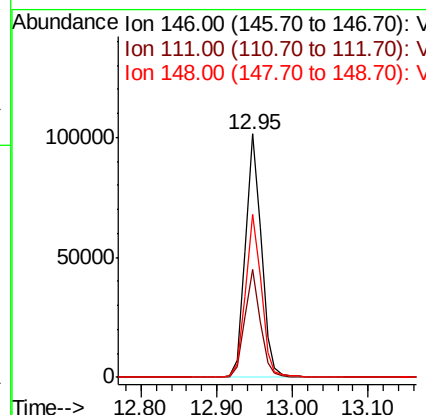
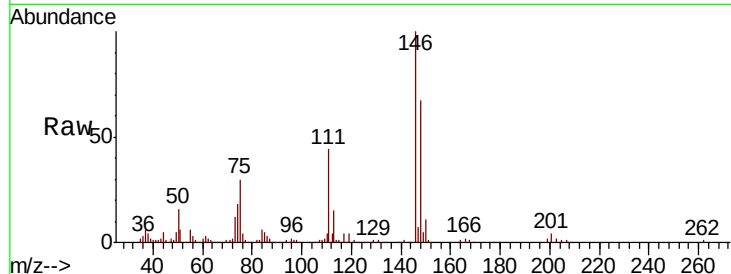
#91
 1,2-Dichlorobenzene
 Concen: 20.960 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.3	64.0
148	67.2	32.9	98.7

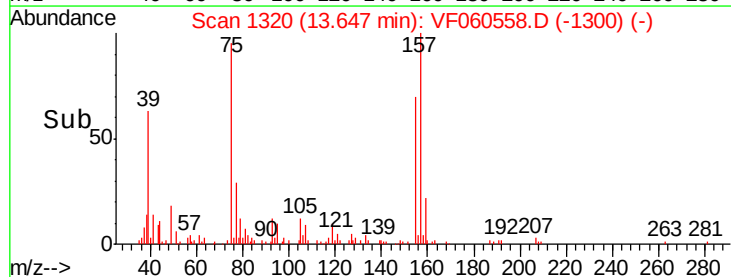
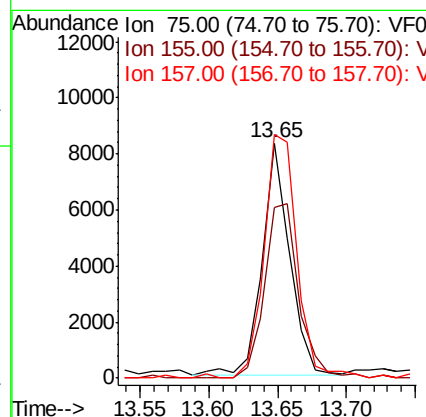
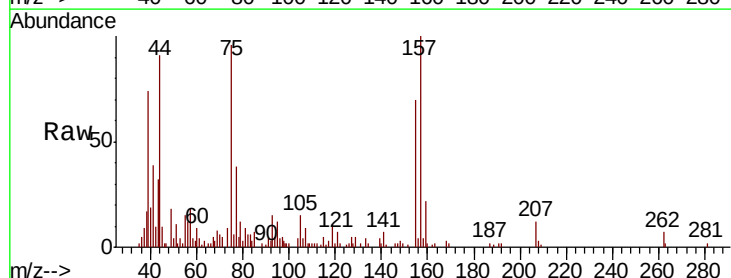
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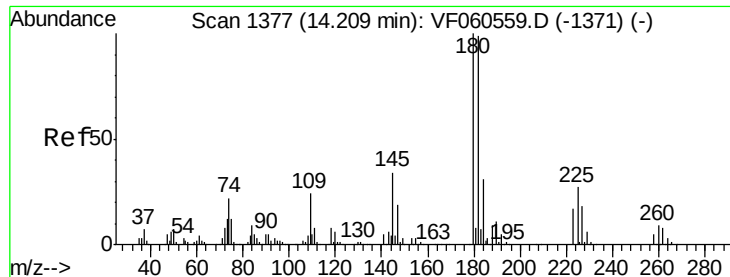
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 11/5/2018 3:55:34 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.860 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.9	47.3	141.8
157	103.7	55.3	165.9





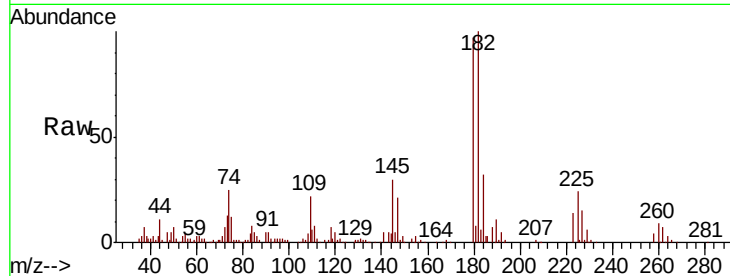
#93
 1,2,4-Trichlorobenzene
 Concen: 19.179 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	99914		
182	103.2	49.7	149.1	
145	31.4	16.9	50.7	

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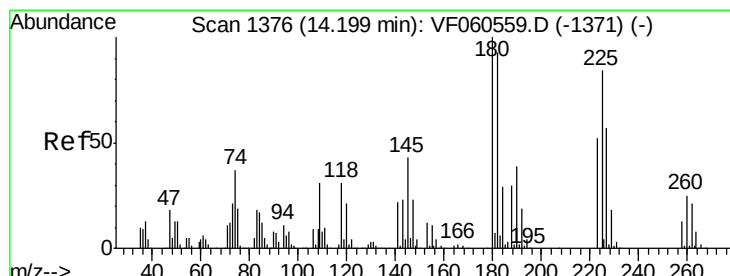
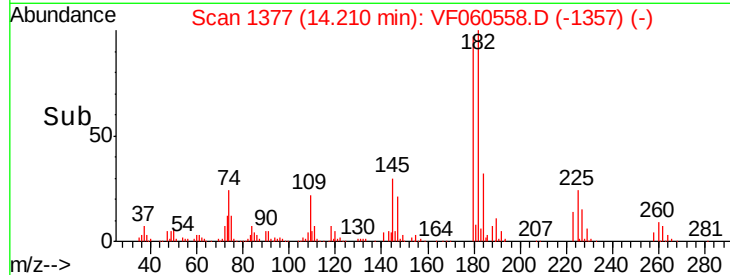
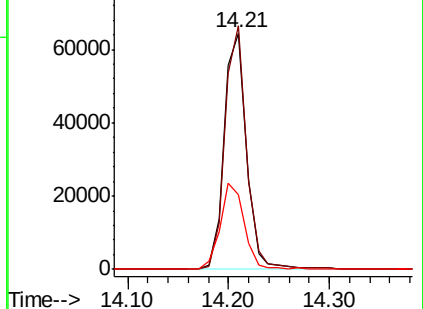


Abundance

Ion 180.00 (179.70 to 180.70): V

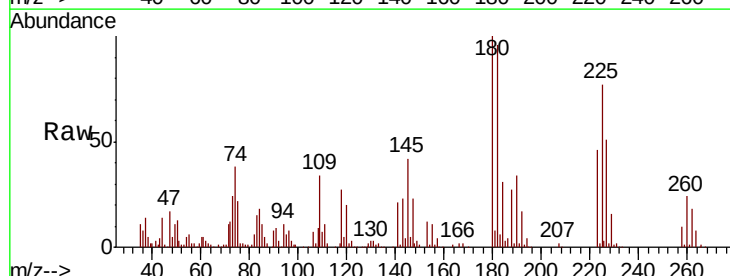
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 17.542 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF060558.D
 Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	63958		
223	59.9	30.9	92.5	
227	65.8	33.9	101.6	

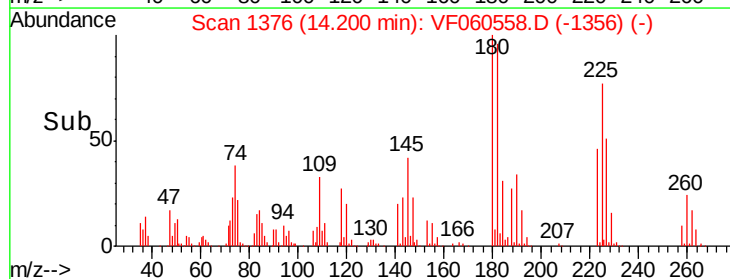
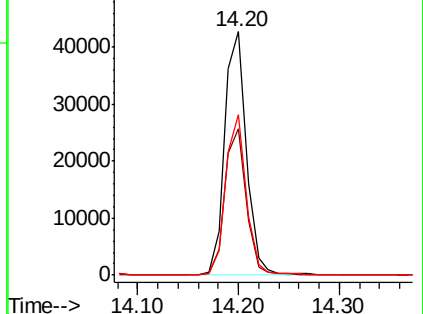


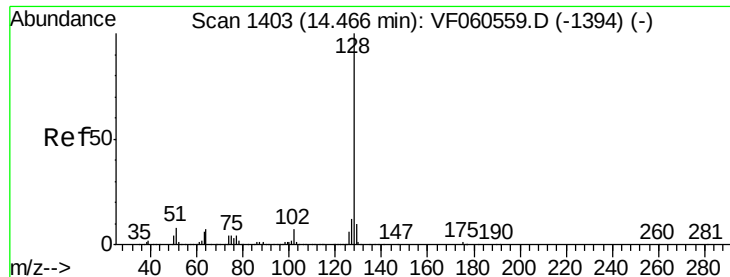
Abundance

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





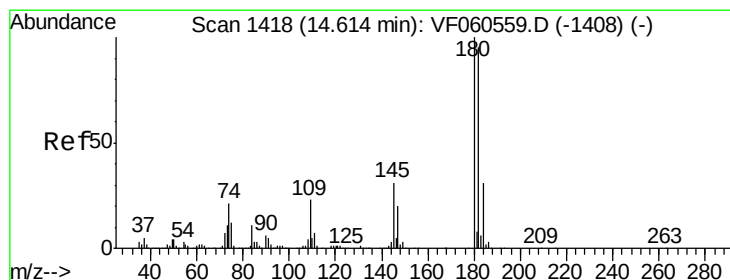
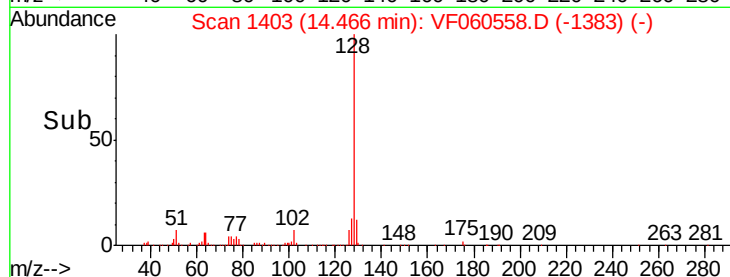
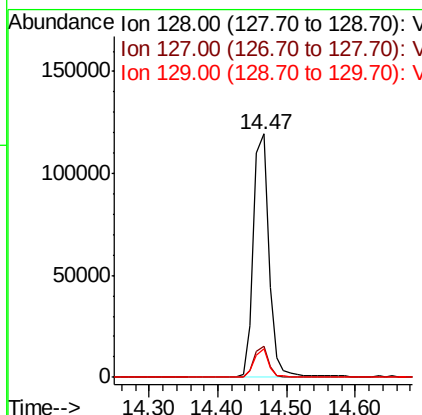
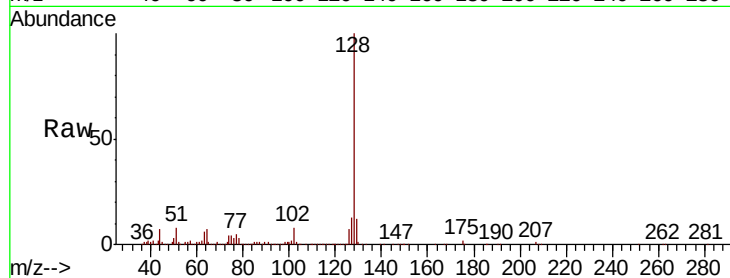
#95
Naphthalene
Concen: 20.576 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	190658		
127	12.9		9.4	14.0
129	11.8		8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:34 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.682 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF060558.D
Acq: 2 Nov 2018 12:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	92386		
182	95.2		47.3	142.0
145	37.2		15.6	46.8

