

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110218\
 Data File : VF060562.D
 Acq On : 2 Nov 2018 13:57
 Operator : VA/AP
 Sample : VSTDIC150
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 3:55:38 PM

Quant Time: Nov 03 04:05:28 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	4.88	168	240576	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	419096	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	368887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	202778	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	360998	102.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.88%	
35) Dibromofluoromethane	4.12	113	425928	108.24	ug/l	0.01
Spiked Amount	50.000		Recovery	=	216.48%	
50) Toluene-d8	7.56	98	1173887	120.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	241.86%	
62) 4-Bromofluorobenzene	11.42	95	523666	118.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	236.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	345753	77.189	ug/l	97
3) Chloromethane	1.10	50	284879	105.522	ug/l	95
4) Vinyl Chloride	1.15	62	261355	93.986	ug/l	93
5) Bromomethane	1.33	94	143342	67.986	ug/l	99
6) Chloroethane	1.37	64	93207	65.778	ug/l	95
7) Trichlorofluoromethane	1.50	101	481779	74.344	ug/l	96
8) Diethyl Ether	1.63	74	84852	100.794	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	1.82	101	257060	79.692	ug/l	97
10) Methyl Iodide	1.89	142	446619	88.741	ug/l	97
11) Tert butyl alcohol	2.59	59	96953	576.423	ug/l #	78
12) 1,1-Dichloroethene	1.78	96	212834	81.938	ug/l	92
13) Acrolein	2.01	56	54850	380.173	ug/l	97
14) Allyl chloride	2.10	41	407299	97.657	ug/l	99
15) Acrylonitrile	2.96	53	195722	541.704	ug/l	98
16) Acetone	2.25	43	373071	488.681	ug/l	98
17) Carbon Disulfide	1.84	76	631002m	87.110	ug/l	
18) Methyl Acetate	2.35	43	139101	125.238	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	586758	102.943	ug/l	100
20) Methylene Chloride	2.24	84	229643m	84.510	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	243774	91.659	ug/l	95
22) Diisopropyl ether	2.81	45	835207	110.528	ug/l	98
23) Vinyl Acetate	3.19	43	2393459	803.633	ug/l	99
24) 1,1-Dichloroethane	2.88	63	464906	85.973	ug/l	97
25) 2-Butanone	4.34	43	746727	670.991	ug/l	99
26) 2,2-Dichloropropane	3.61	77	317788	95.184	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	492427	146.661	ug/l	96
28) Bromochloromethane	3.72	49	297479	144.930	ug/l	94
29) Tetrahydrofuran	4.08	42	311212	901.842	ug/l	99
30) Chloroform	3.86	83	736473	106.902	ug/l	100
31) Cyclohexane	3.70	56	625495	150.066	ug/l	97
32) 1,1,1-Trichloroethane	4.10	97	549249	98.547	ug/l	98
36) 1,1-Dichloropropene	4.29	75	587071	114.276	ug/l	97
37) Ethyl Acetate	4.12	43	281027	160.188	ug/l	87
38) Carbon Tetrachloride	3.99	117	521369m	88.825	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	662489	122.910	ug/l	96
40) Benzene	4.63	78	1373650	130.821	ug/l	99
41) Methacrylonitrile	4.75	41	161004	160.241	ug/l #	96
42) 1,2-Dichloroethane	4.95	62	453891	100.264	ug/l	97
43) Isopropyl Acetate	6.96	43	391616	187.098	ug/l	97
44) Trichloroethene	5.51	130	428009	126.816	ug/l	98
45) 1,2-Dichloropropane	6.24	63	379767	144.777	ug/l	97
46) Dibromomethane	6.10	93	266473	134.652	ug/l	98
47) Bromodichloromethane	6.39	83	607600	121.178	ug/l	97
48) Methyl methacrylate	6.72	41	238243	168.416	ug/l	98
49) 1,4-Dioxane	6.71	88	51141	3705.346	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	1200590	795.766	ug/l	95
52) Toluene	7.63	92	927174	137.594	ug/l	92
53) t-1,3-Dichloropropene	8.28	75	492076	124.693	ug/l	97
54) cis-1,3-Dichloropropene	7.31	75	627510	131.226	ug/l	97
55) 1,1,2-Trichloroethane	8.50	97	304475	154.115	ug/l	97
56) Ethyl methacrylate	8.63	69	373669	167.052	ug/l	95
57) 1,3-Dichloropropane	8.85	76	534054	159.596	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.63	63	122928	546.885	ug/l	100
59) 2-Hexanone	9.50	43	889421	813.903	ug/l	95
60) Dibromochloromethane	8.73	129	425735	135.459	ug/l	98
61) 1,2-Dibromoethane	8.99	107	329560	144.726	ug/l	100
64) Tetrachloroethene	8.15	164	400145	130.353	ug/l	97
65) Chlorobenzene	9.81	112	1002524	135.905	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.94	131	402181	119.983	ug/l	96
67) Ethyl Benzene	9.91	91	1650393	117.534	ug/l	95
68) m/p-Xylenes	10.14	106	1259293	259.585	ug/l	89
69) o-Xylene	10.72	106	708956	130.307	ug/l	90
70) Styrene	10.80	104	1004941	130.503	ug/l	98
71) Bromoform	10.78	173	237317	139.033	ug/l	100
73) Isopropylbenzene	11.13	105	1799414	114.727	ug/l	95
74) N-amyl acetate	11.38	43	568229	172.943	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	368745	140.483	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	178965	99.313	ug/l	98
77) Bromobenzene	11.51	156	455243	132.632	ug/l	81
78) n-propylbenzene	11.61	91	2051488	110.996	ug/l	88
79) 2-Chlorotoluene	11.72	91	1217523	110.634	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	1459385	109.077	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.87	75	144410m	164.136	ug/l	
82) 4-Chlorotoluene	11.91	91	1324525	116.571	ug/l	89
83) tert-Butylbenzene	12.14	119	1460389	111.086	ug/l	94
84) 1,2,4-Trimethylbenzene	12.21	105	1489877	109.613	ug/l	96
85) sec-Butylbenzene	12.32	105	2022173	109.735	ug/l	90
86) p-Isopropyltoluene	12.46	119	1614251	106.822	ug/l	95
87) 1,3-Dichlorobenzene	12.48	146	789505	115.083	ug/l	95
88) 1,4-Dichlorobenzene	12.57	146	818402	126.232	ug/l	96
89) n-Butylbenzene	12.85	91	1572929	99.283	ug/l	93
90) Hexachloroethane	12.93	117	459091	117.875	ug/l	100
91) 1,2-Dichlorobenzene	12.95	146	766788	119.168	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.65	75	70843	133.302	ug/l	93

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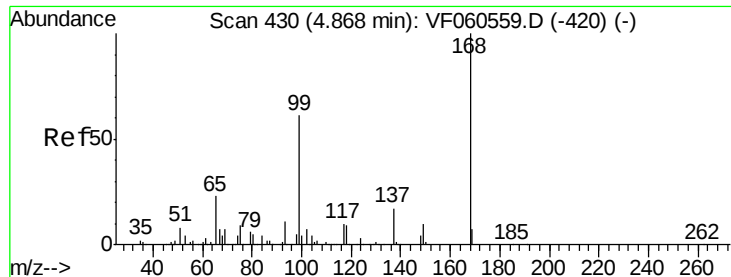
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	517652	108.718	ug/l	99
94) Hexachlorobutadiene	14.20	225	336120	100.864	ug/l	99
95) Naphthalene	14.47	128	1158627	136.812	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	515945	114.152	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 240576

Ion Ratio Lower Upper

168 100

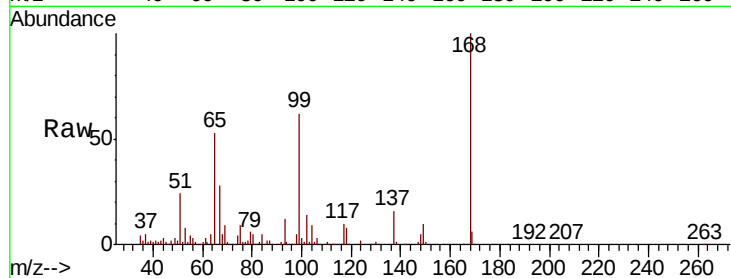
99 62.0 48.6 72.8

Manual Integrations

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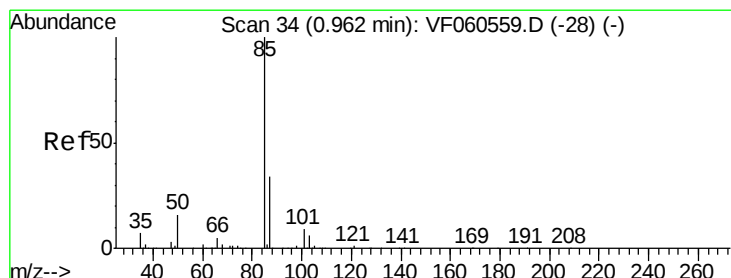
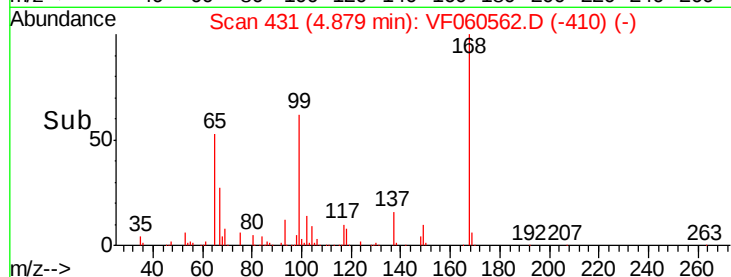
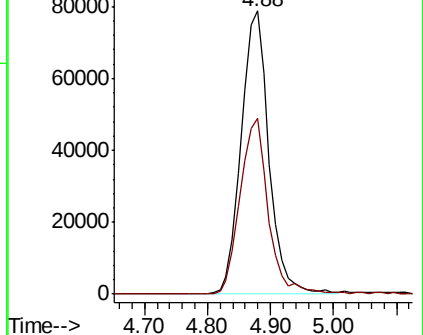
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 77.189 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060562.D

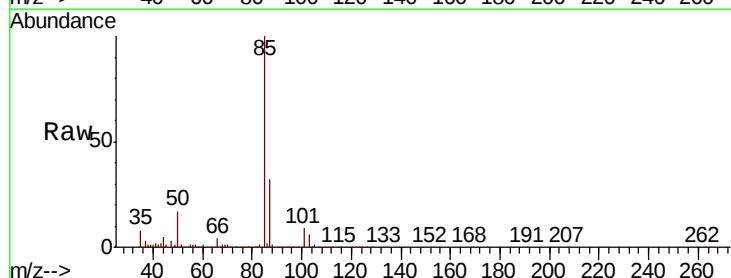
Acq: 2 Nov 2018 13:57

Tgt Ion: 85 Resp: 345753

Ion Ratio Lower Upper

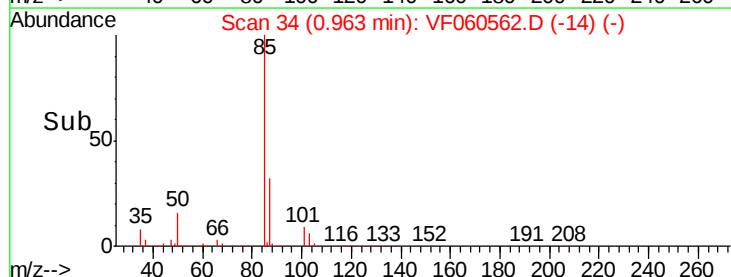
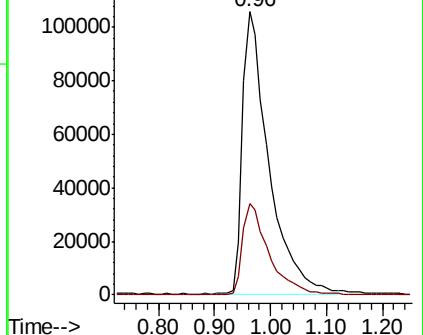
85 100

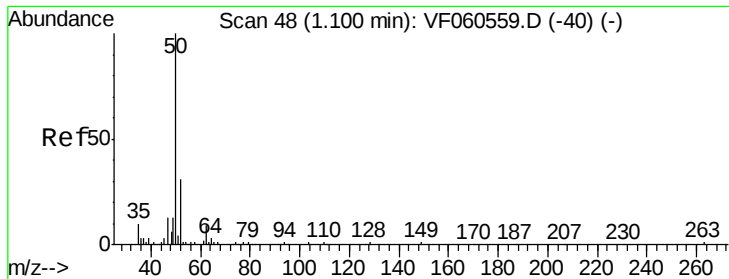
87 32.1 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 105.522 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 284879

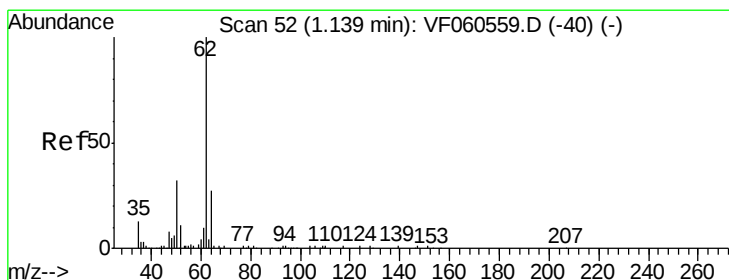
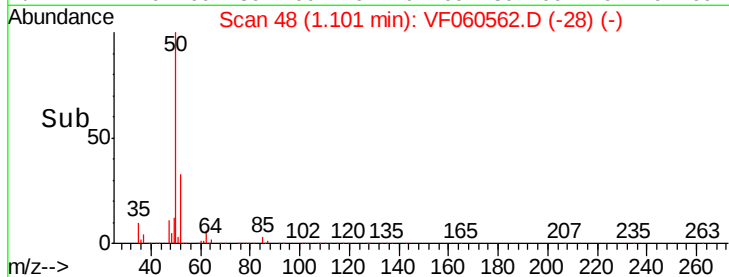
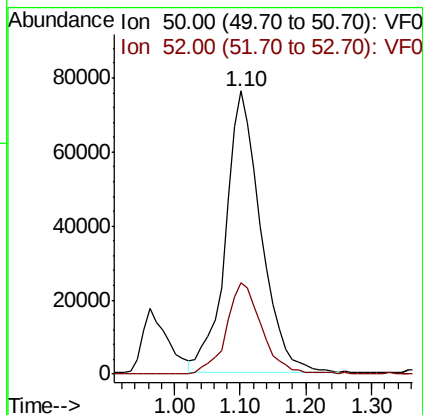
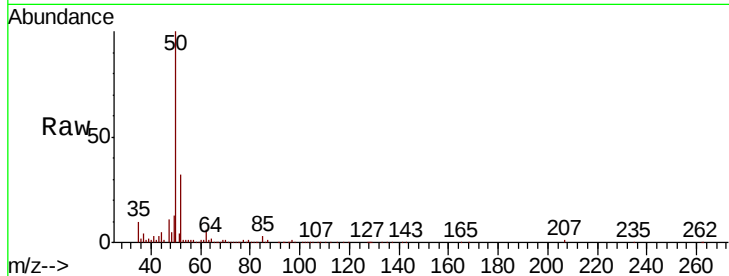
Ion Ratio Lower Upper

50 100

52 32.5 24.0 36.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 93.986 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF060562.D

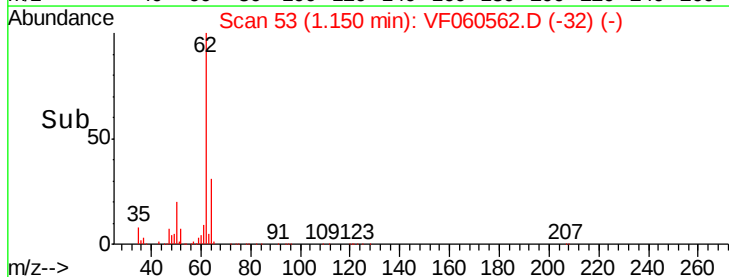
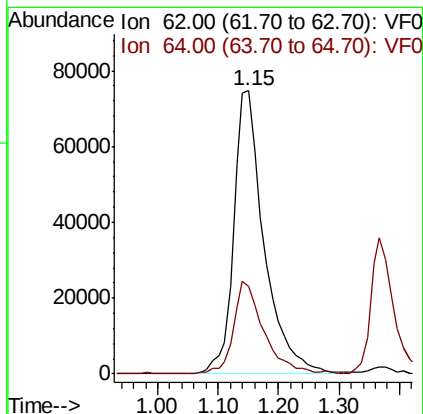
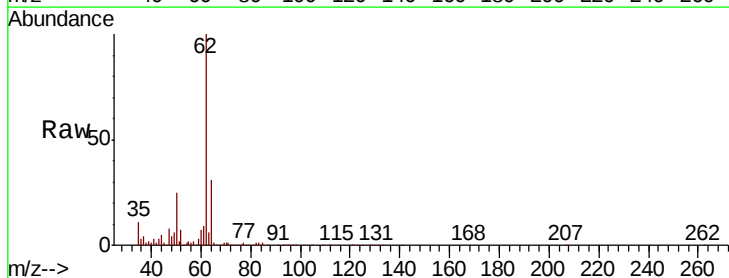
Acq: 2 Nov 2018 13:57

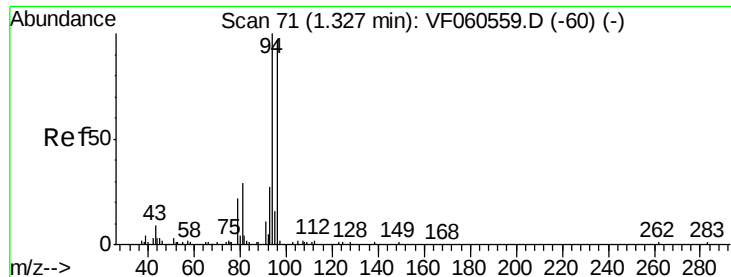
Tgt Ion: 62 Resp: 261355

Ion Ratio Lower Upper

62 100

64 31.0 21.8 32.6





#5

Bromomethane

Concen: 67.986 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 143342

Ion Ratio Lower Upper

94 100

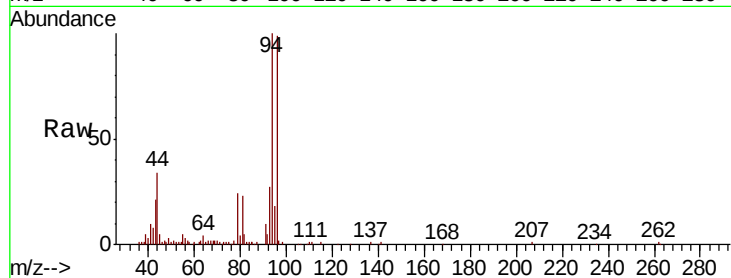
96 98.8 77.9 116.9

Manual Integrations

APPROVED

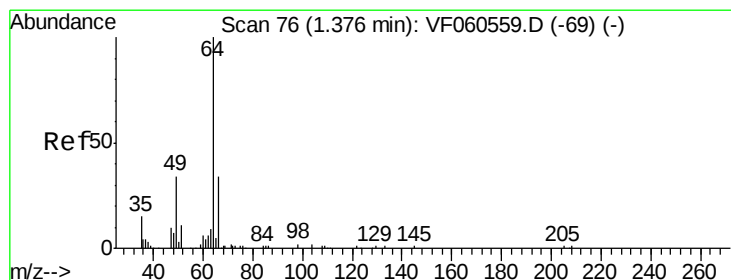
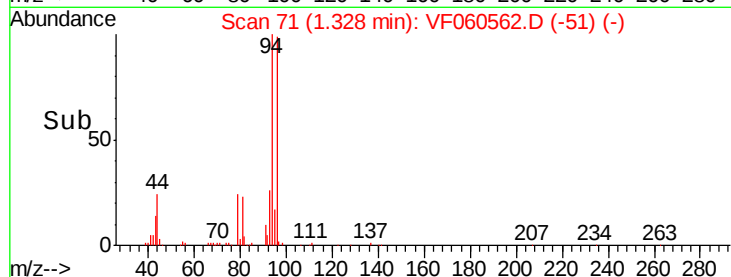
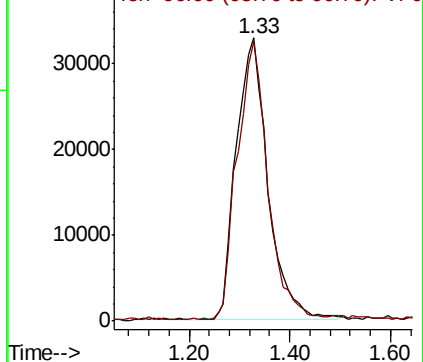
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 65.778 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060562.D

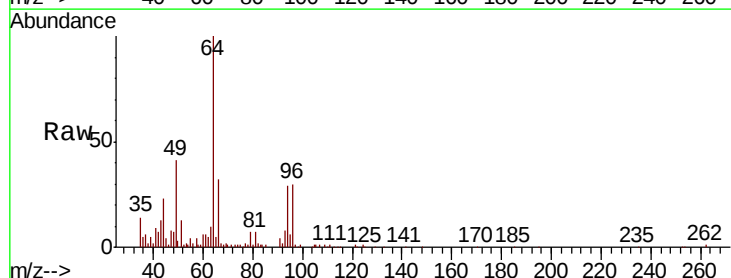
Acq: 2 Nov 2018 13:57

Tgt Ion: 64 Resp: 93207

Ion Ratio Lower Upper

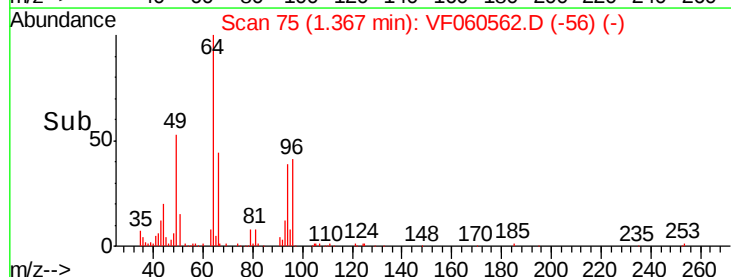
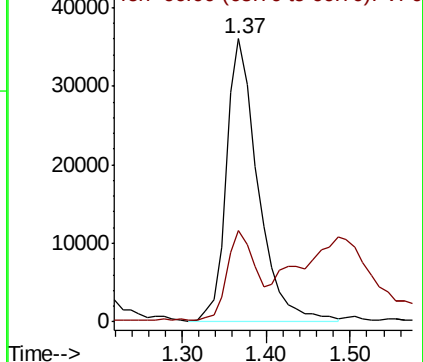
64 100

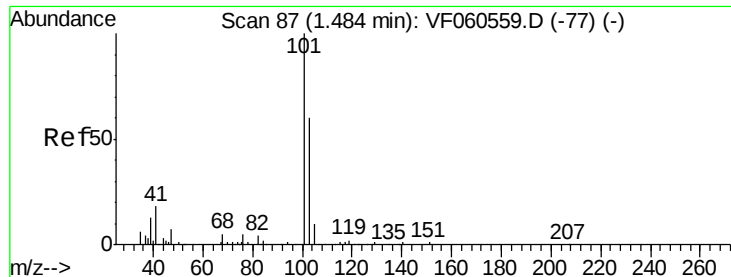
66 32.1 27.8 41.8



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

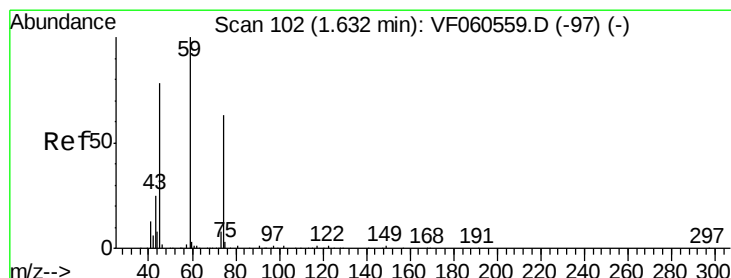
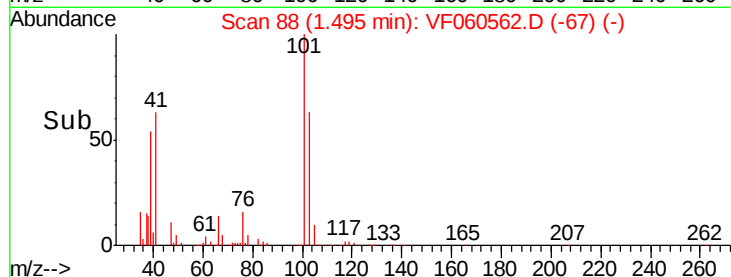
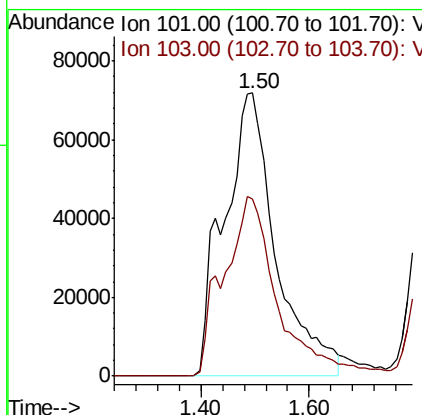
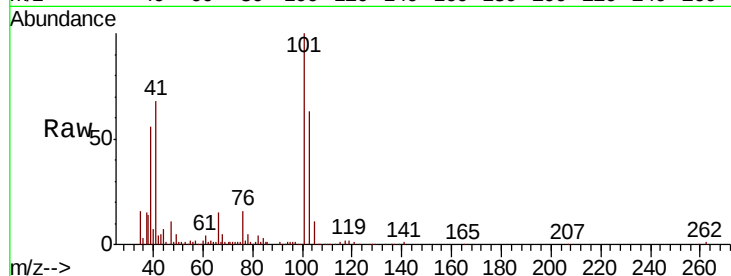
Trichlorofluoromethane
Concen: 74.344 ug/l
RT: 1.50 min Scan# 88
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
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ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 481779
Ion Ratio Lower Upper
101 100
103 62.7 48.0 72.0

Manual Integrations
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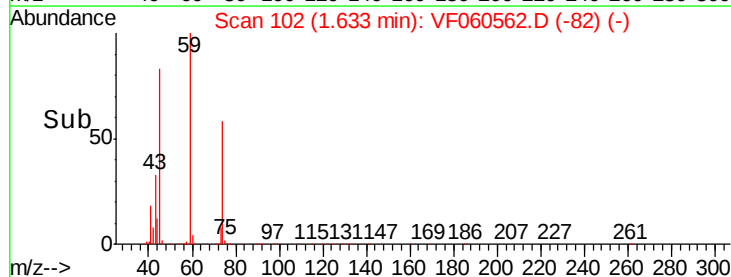
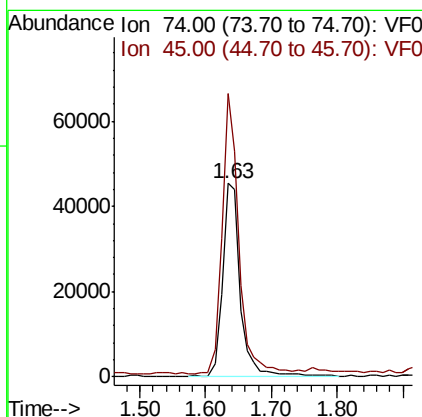
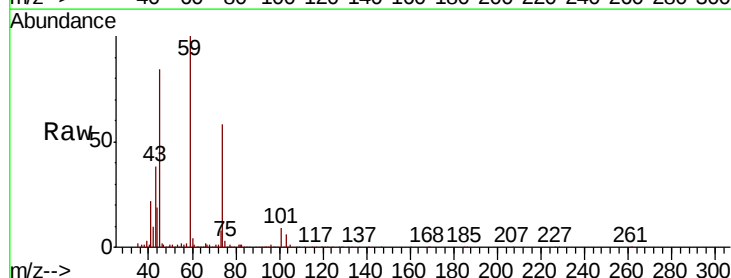
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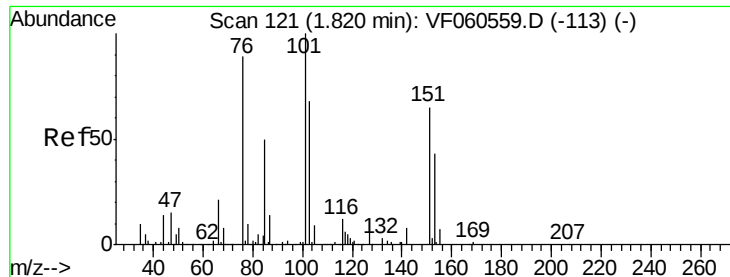


#8

Diethyl Ether
Concen: 100.794 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion: 74 Resp: 84852
Ion Ratio Lower Upper
74 100
45 146.2 63.8 191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 79.692 ug/l

RT: 1.82 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

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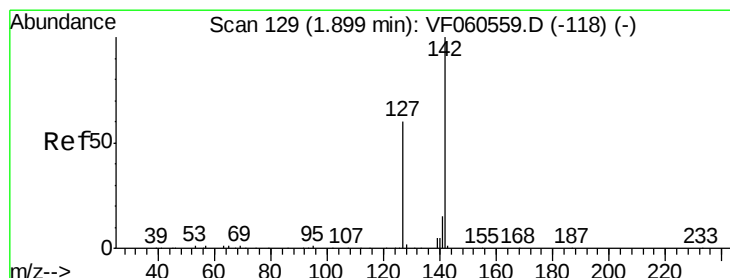
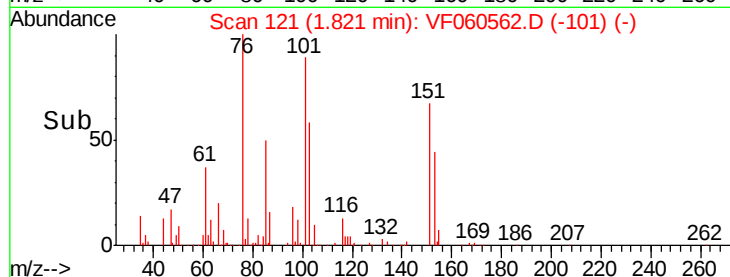
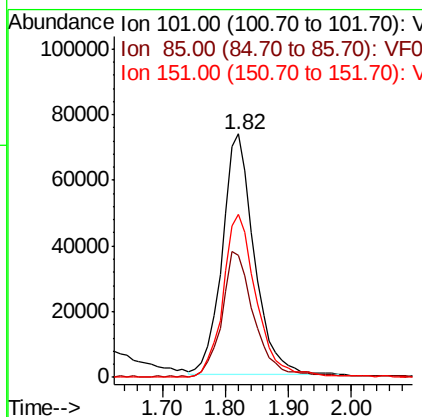
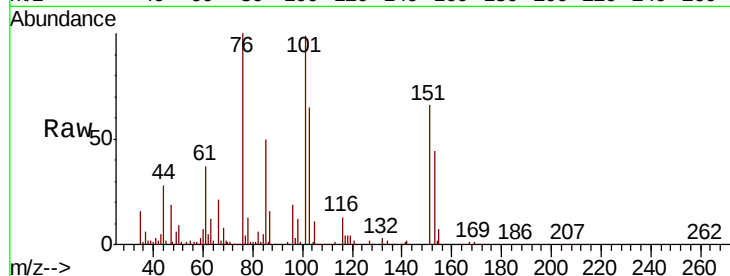
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	257060
Ion Ratio	Lower	Upper	
101	100		
85	50.2	39.8	59.6
151	66.9	50.8	76.2

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#10

Methyl Iodide

Concen: 88.741 ug/l

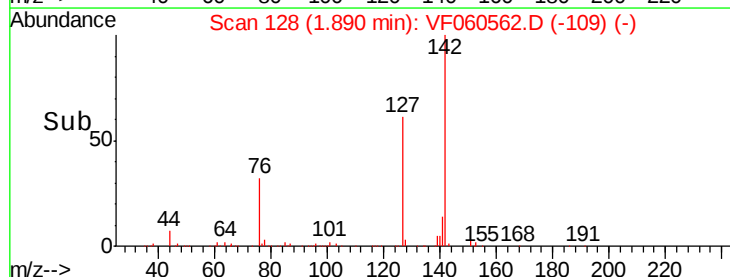
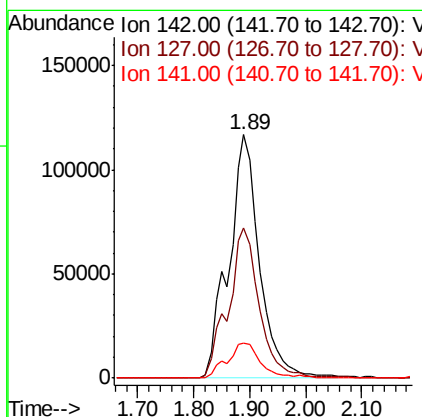
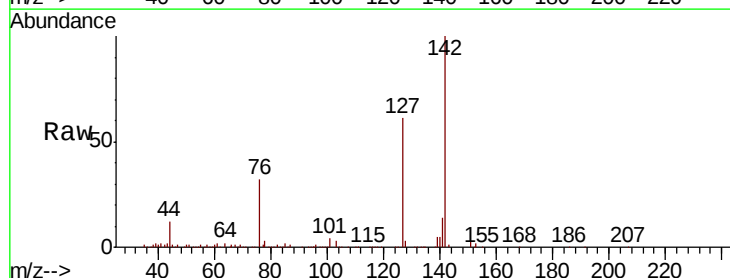
RT: 1.89 min Scan# 128

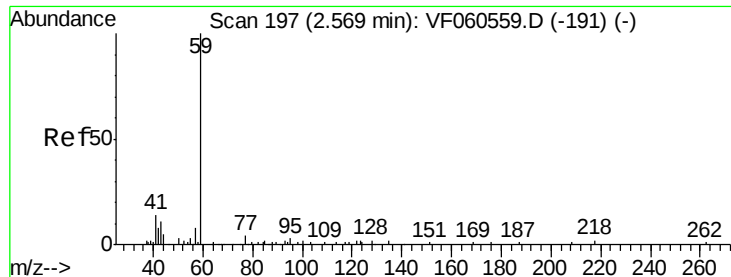
Delta R.T. -0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	142	Resp:	446619
Ion Ratio	Lower	Upper	
142	100		
127	61.4	47.8	71.6
141	14.1	12.7	19.1





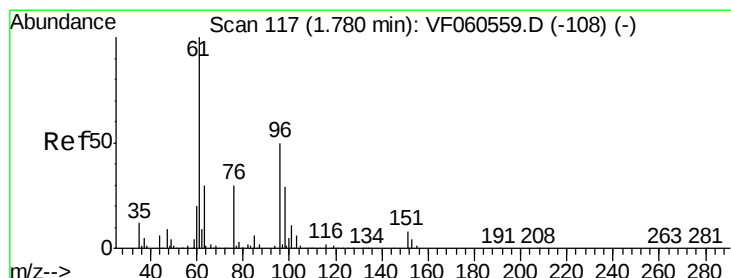
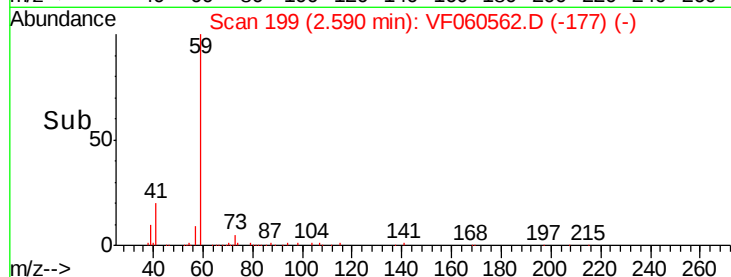
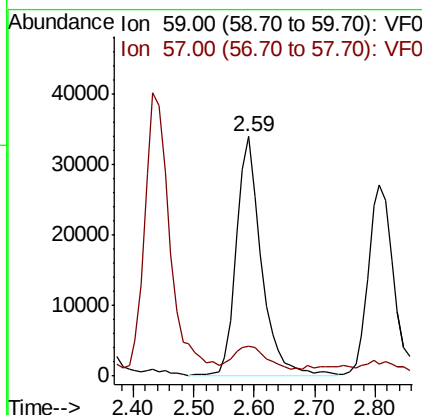
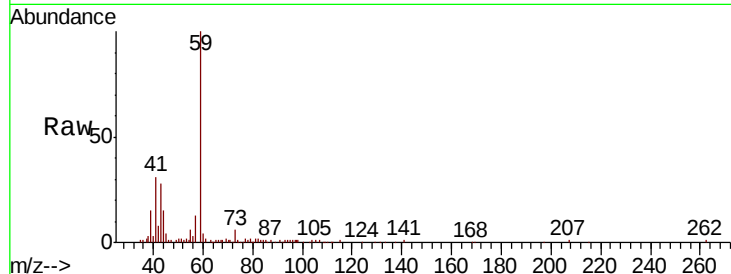
#11
Tert butyl alcohol
Concen: 576.423 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.8	19.0	28.4#

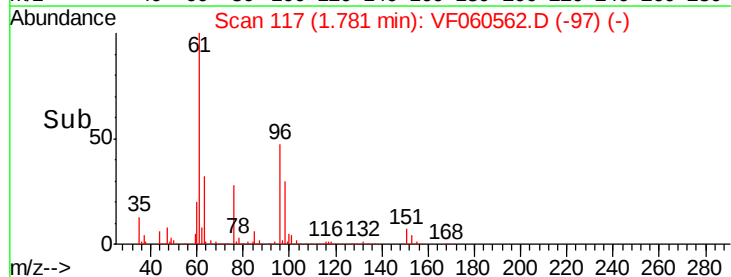
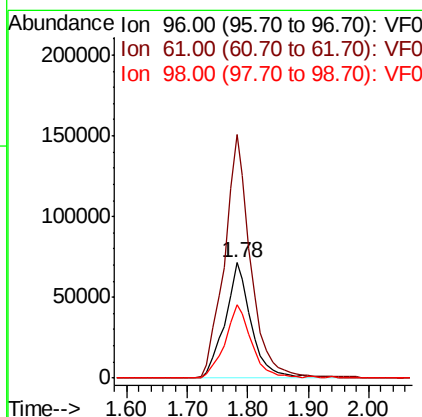
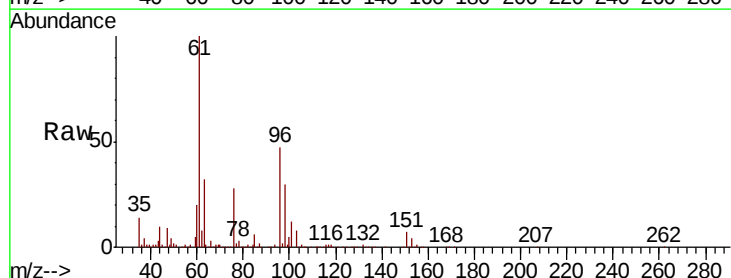
Manual Integrations
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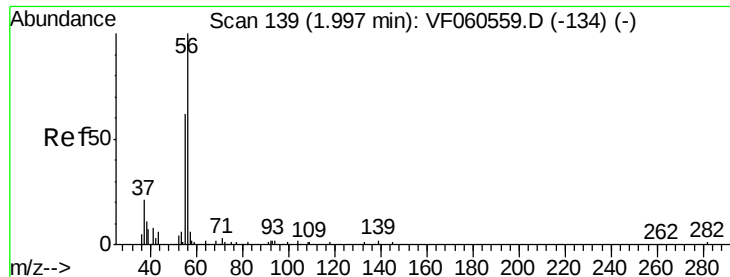
MMDadoda
11/5/2018 3:55:38 PM



#12
1,1-Dichloroethene
Concen: 81.938 ug/l
RT: 1.78 min Scan# 117
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	210.8	158.1	237.1
98	63.4	47.0	70.6





#13

Acrolein

Concen: 380.173 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 54850

Ion Ratio Lower Upper

56 100

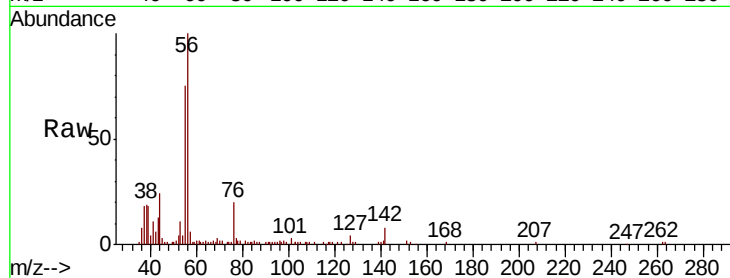
55 74.6 61.8 92.6

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.01

25000

20000

15000

10000

5000

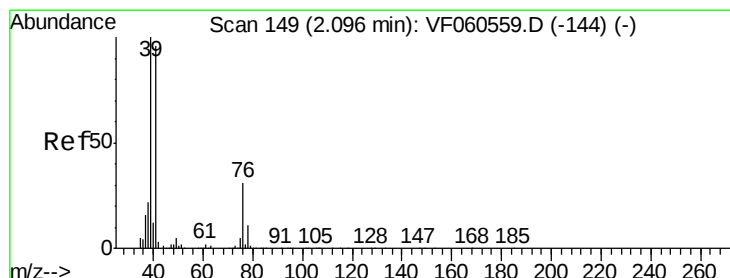
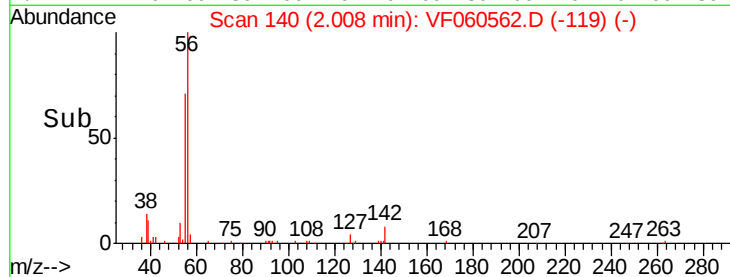
0

Time-->

1.90

2.00

2.10



#14

Allyl chloride

Concen: 97.657 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

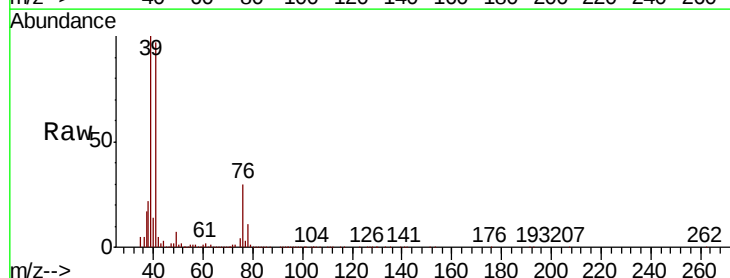
Tgt Ion: 41 Resp: 407299

Ion Ratio Lower Upper

41 100

39 103.4 82.6 124.0

76 30.8 26.7 40.1



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

2.10

200000

150000

100000

50000

0

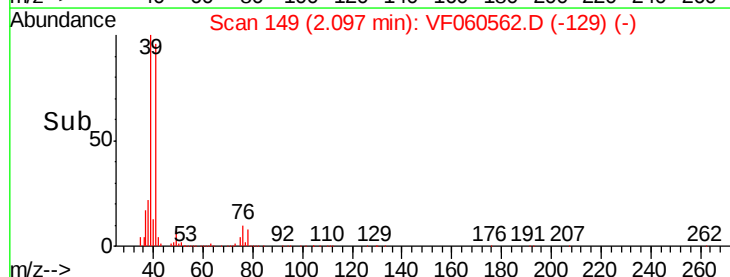
Time-->

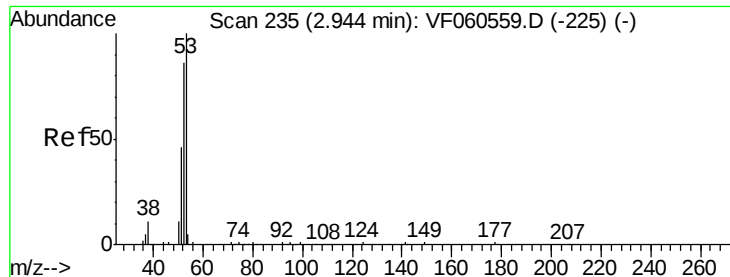
2.00

2.10

2.20

2.30





#15

Acrylonitrile

Concen: 541.704 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

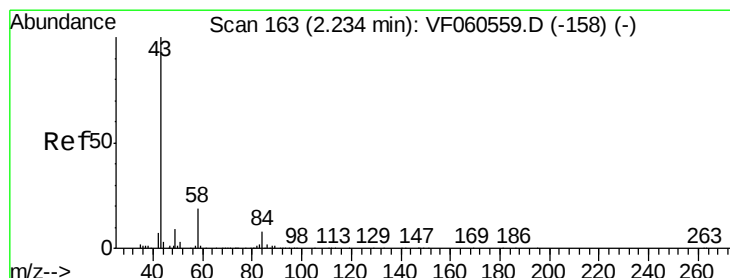
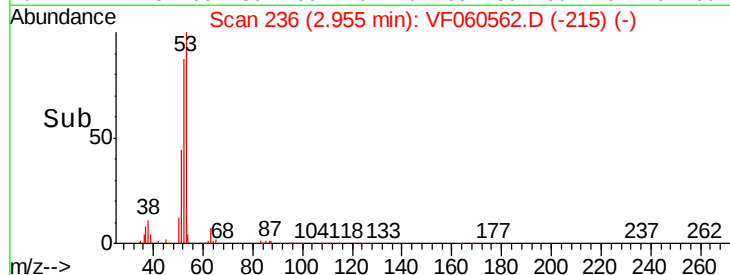
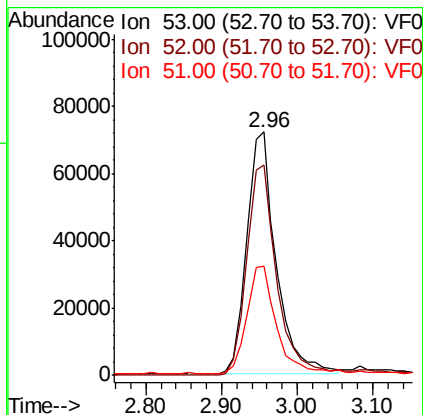
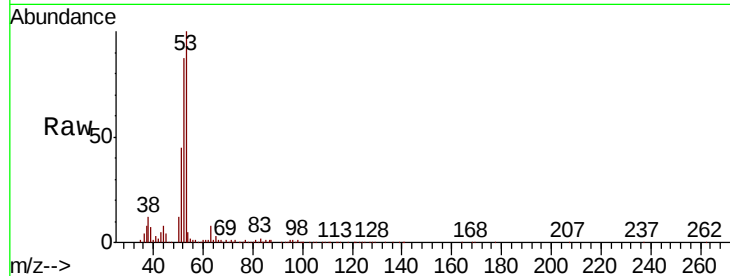
ClientSampleId :

VSTDIC150

Tot Ion:	53	Resp:	195722
Ion Ratio	Lower	Upper	
53	100		
52	86.6	68.5	102.7
51	44.8	38.2	57.2

Manual Integrations
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#16

Acetone

Concen: 488.681 ug/l

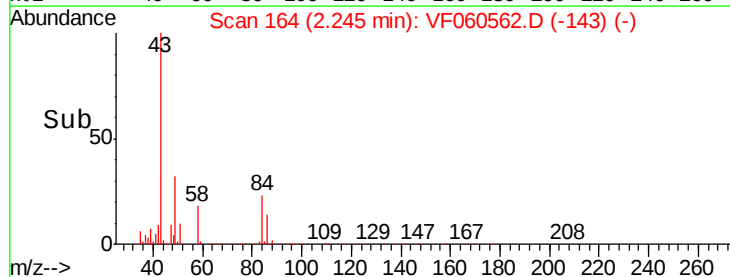
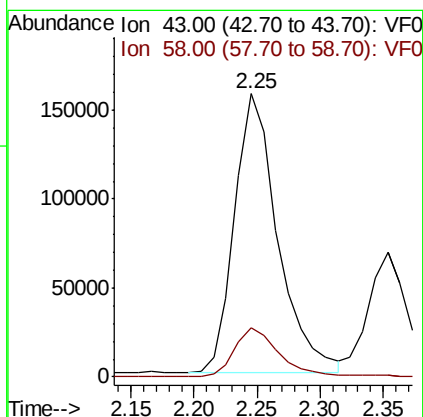
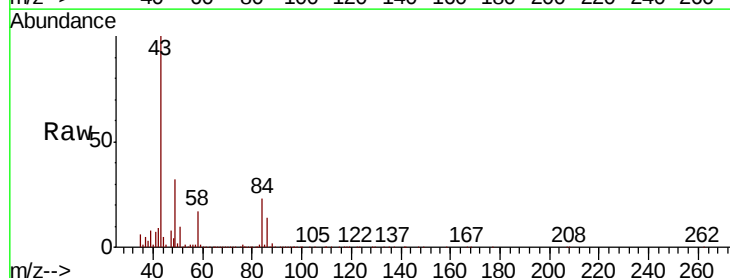
RT: 2.25 min Scan# 164

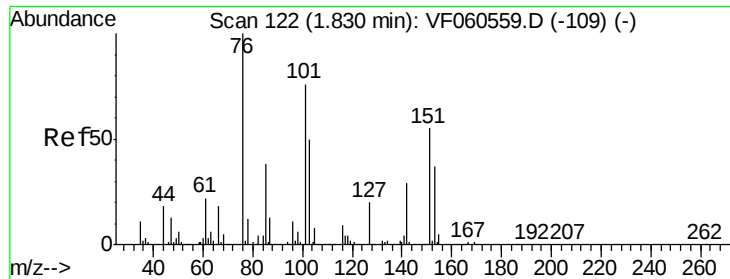
Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	43	Resp:	373071
Ion Ratio	Lower	Upper	
43	100		
58	17.4	14.6	22.0





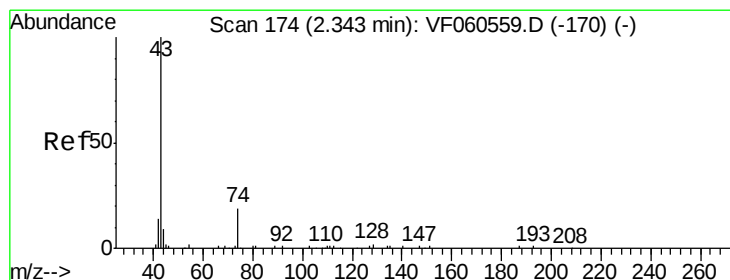
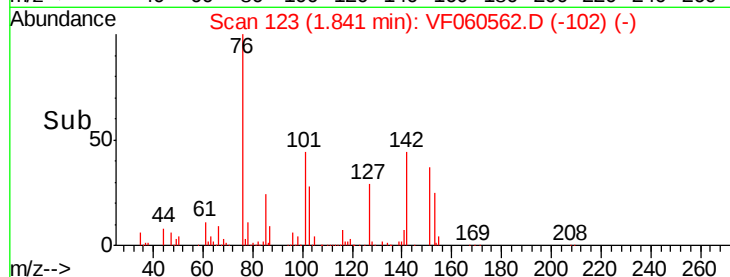
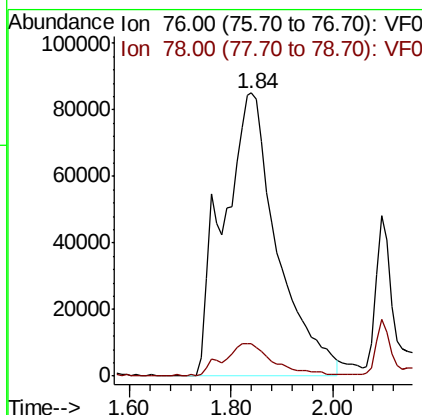
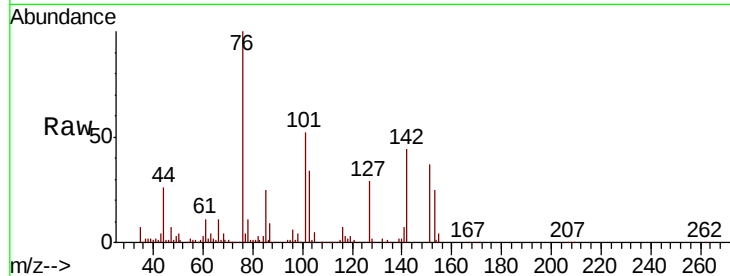
#17
Carbon Disulfide
Concen: 87.110 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion: 76 Resp: 631002
Ion Ratio Lower Upper
76 100
78 11.3 9.9 14.9

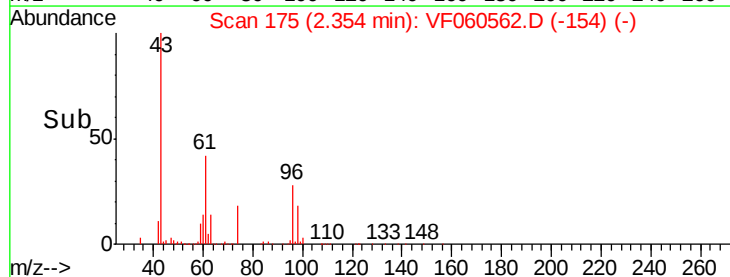
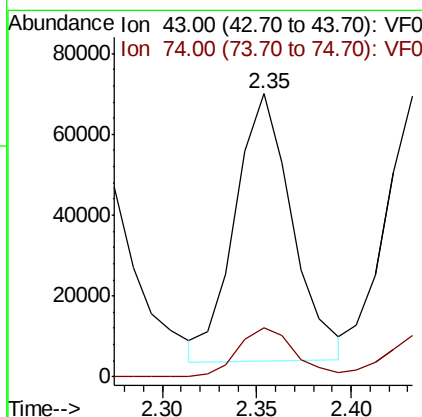
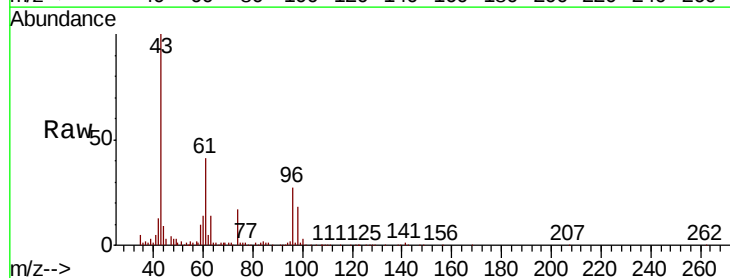
Manual Integrations
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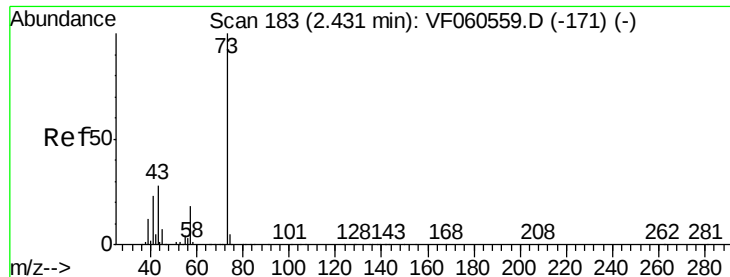
MMDadoda
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#18
Methyl Acetate
Concen: 125.238 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion: 43 Resp: 139101
Ion Ratio Lower Upper
43 100
74 17.3 12.1 18.1





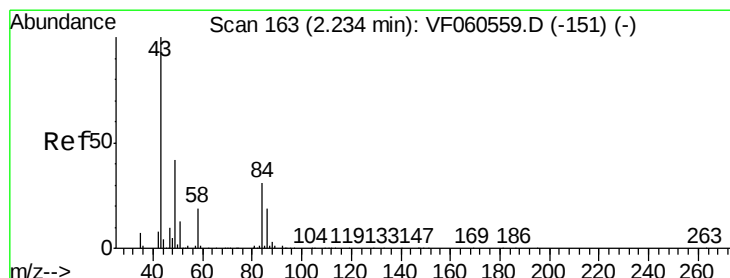
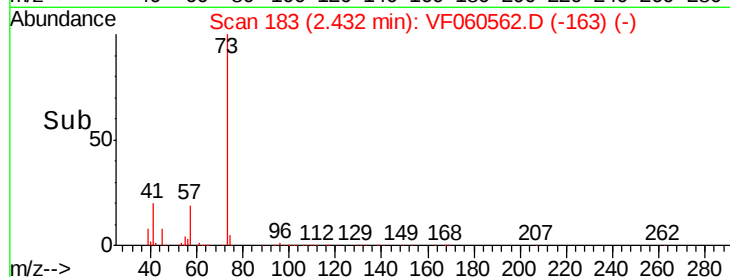
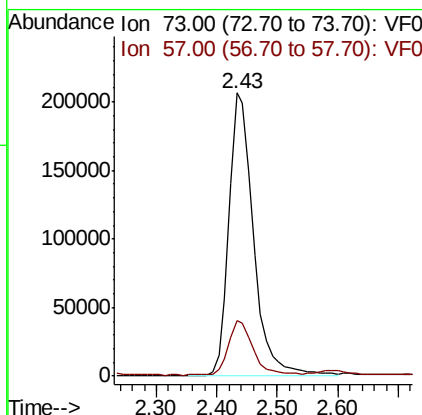
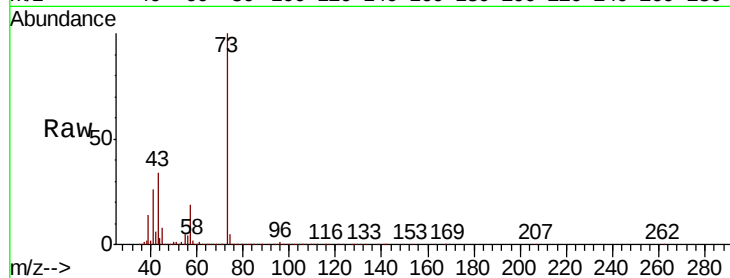
#19
Methyl tert-butyl Ether
Concen: 102.943 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.4	15.4	23.0

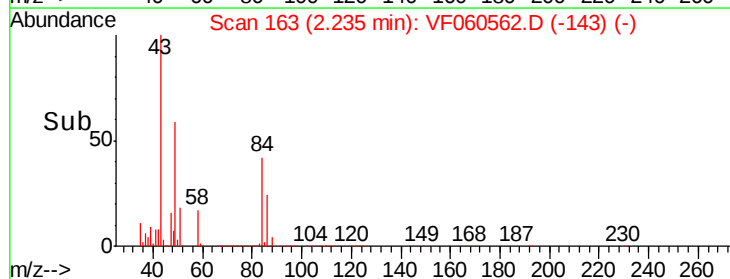
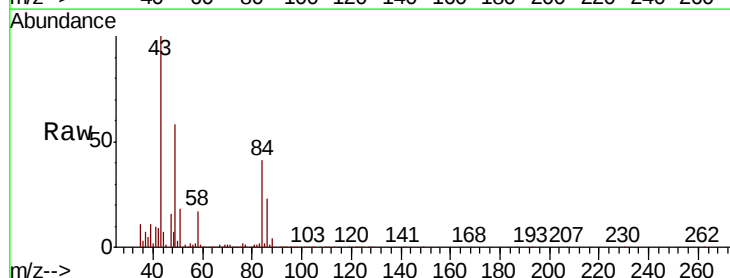
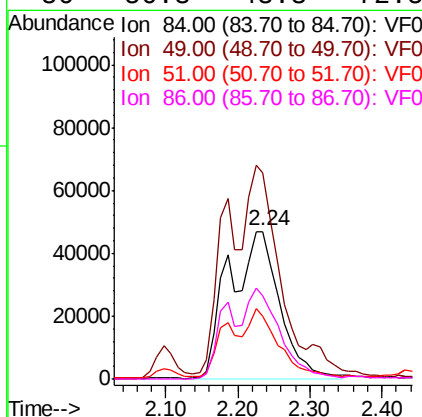
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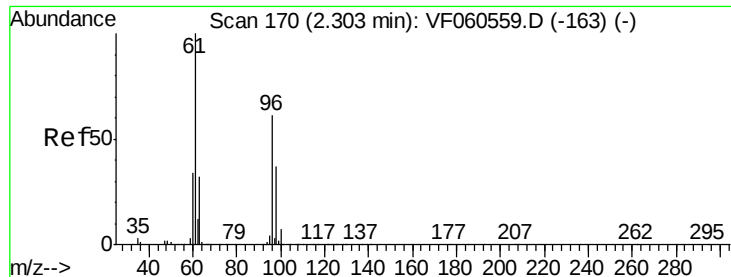
MMDadoda
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#20
Methylene Chloride
Concen: 84.510 ug/l m
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.7	109.9	164.9
51	42.9	35.8	53.8
86	56.3	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 91.659 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

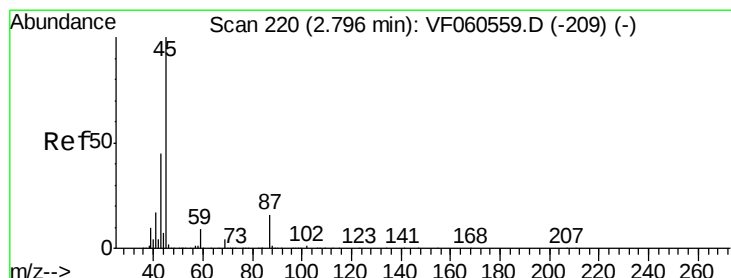
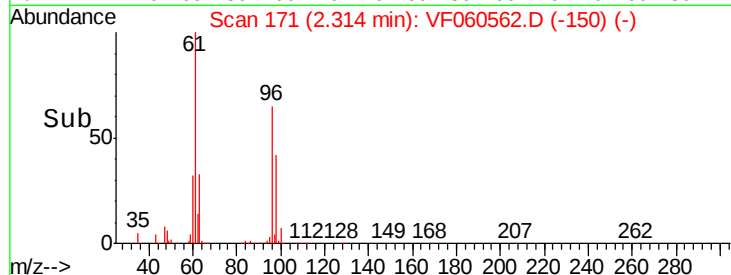
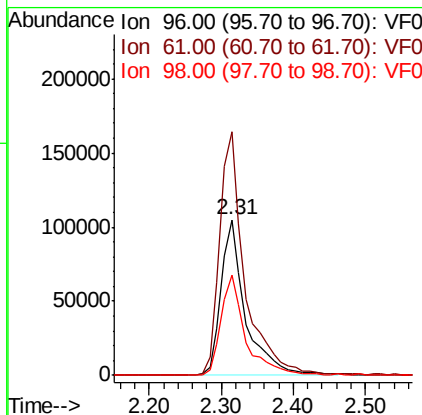
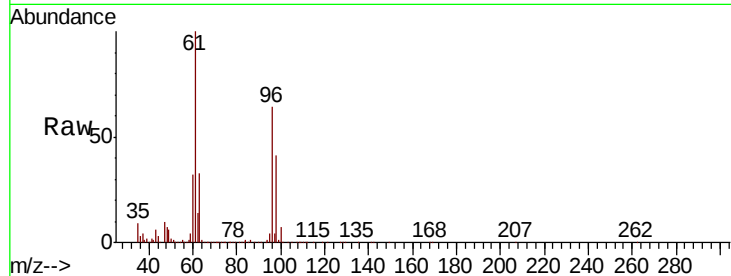
ClientSampleId :

VSTDIC150

Tot Ion:	96	Resp:	243774
Ion	Ratio	Lower	Upper
96	100		
61	156.6	131.3	196.9
98	64.3	48.6	73.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 110.528 ug/l

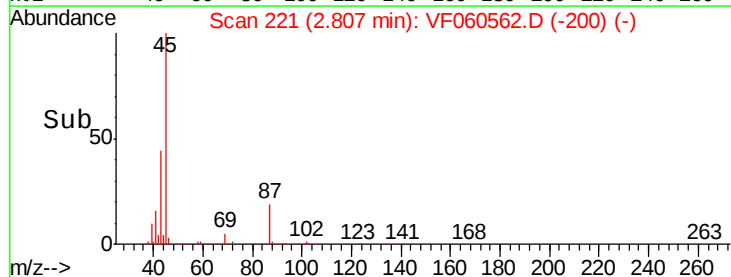
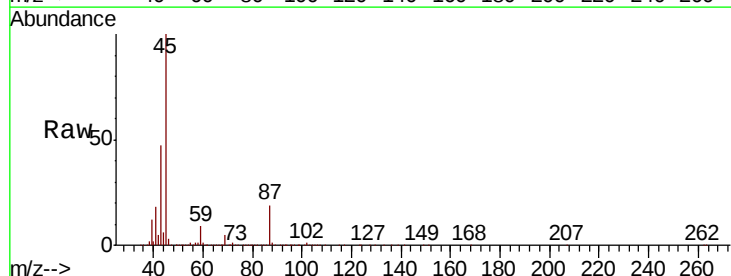
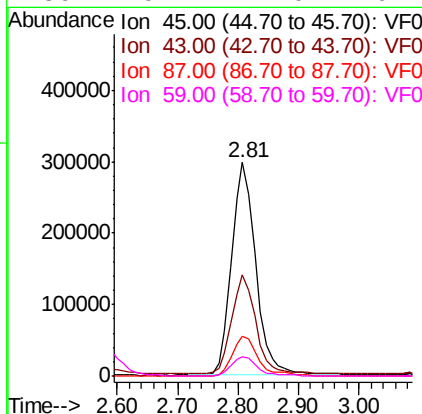
RT: 2.81 min Scan# 221

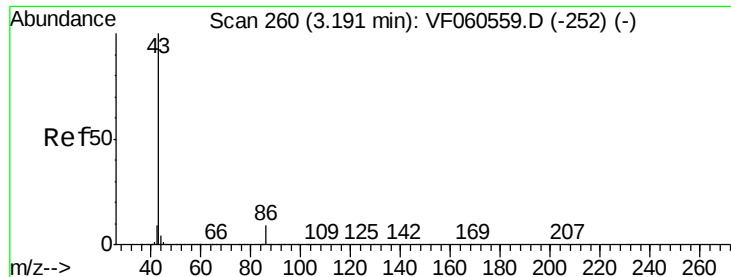
Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	45	Resp:	835207
Ion	Ratio	Lower	Upper
45	100		
43	47.1	38.1	57.1
87	18.8	12.7	19.1
59	9.1	7.0	10.4





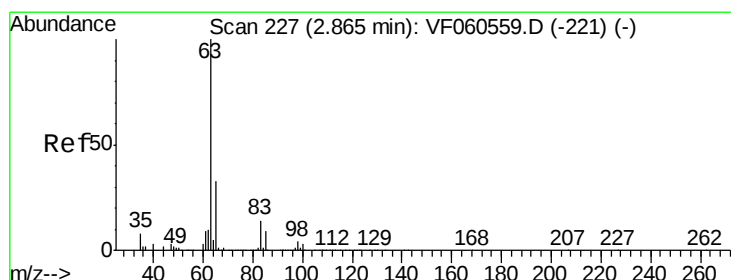
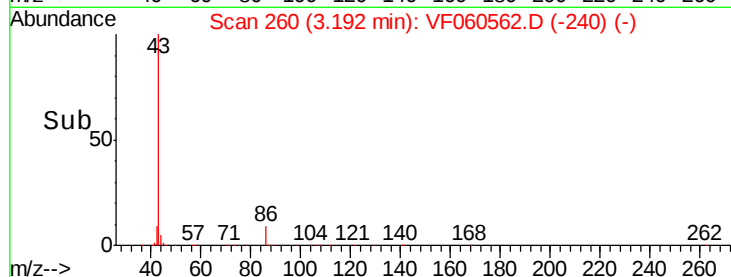
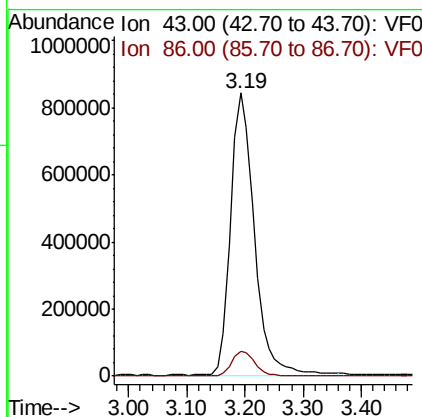
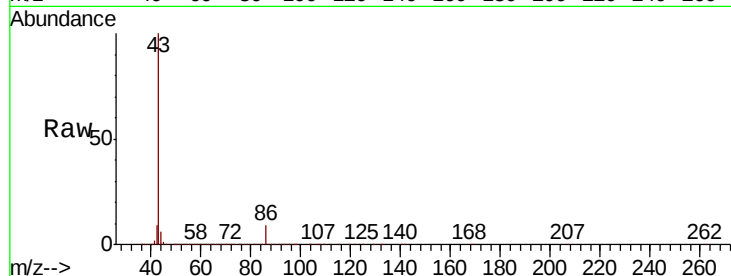
#23
 Vinyl Acetate
 Concen: 803.633 ug/l
 RT: 3.19 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion: 43 Resp: 2393459
 Ion Ratio Lower Upper
 43 100
 86 8.6 7.1 10.7

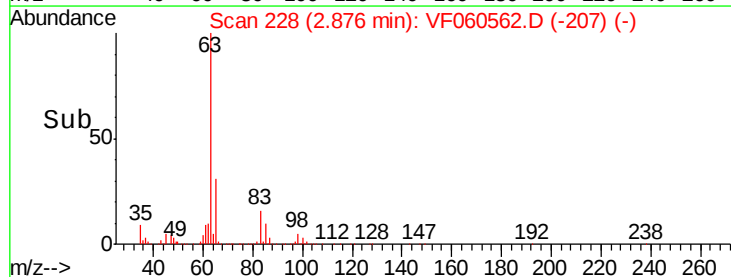
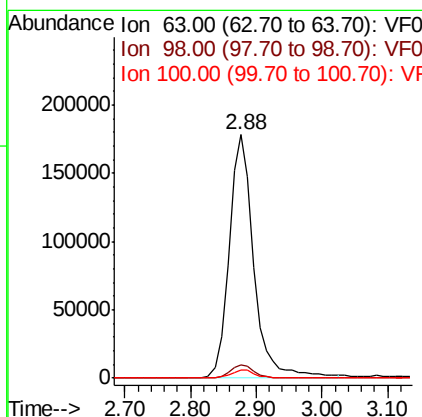
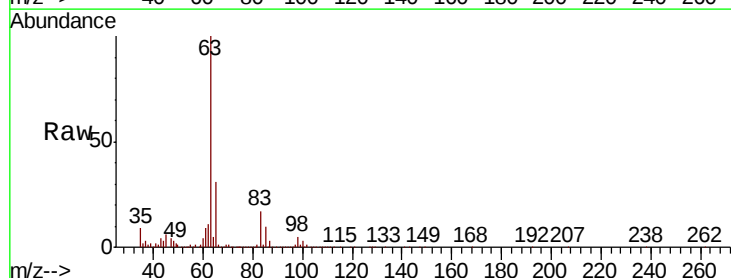
Manual Integrations
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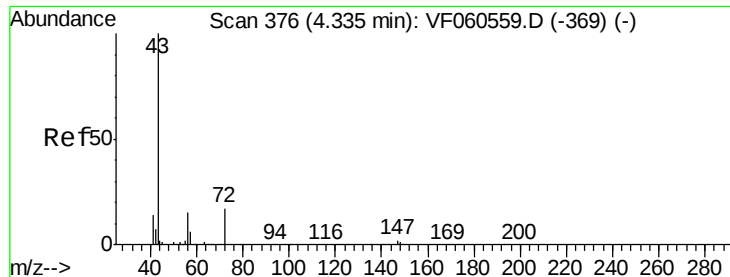
MMDadoda
 11/5/2018 3:55:38 PM



#24
 1,1-Dichloroethane
 Concen: 85.973 ug/l
 RT: 2.88 min Scan# 228
 Delta R.T. 0.01 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion: 63 Resp: 464906
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.2 6.6
 100 3.3 1.4 4.0





#25

2-Butanone

Concen: 670.991 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 746727

Ion Ratio Lower Upper

43 100

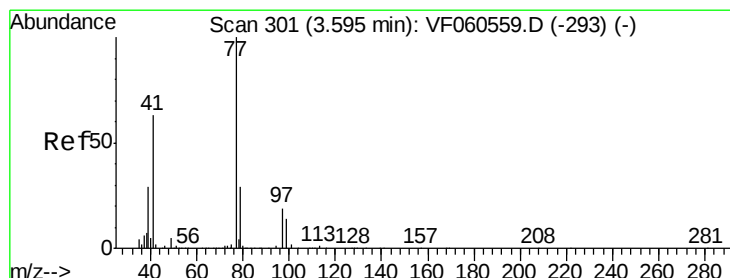
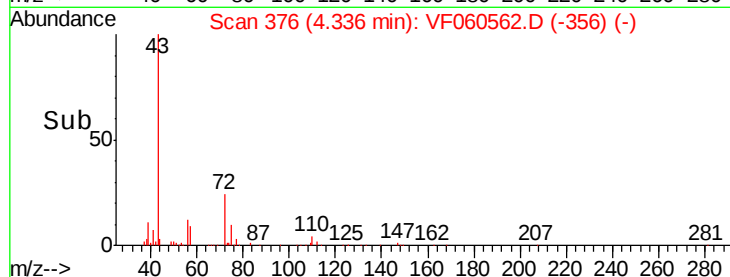
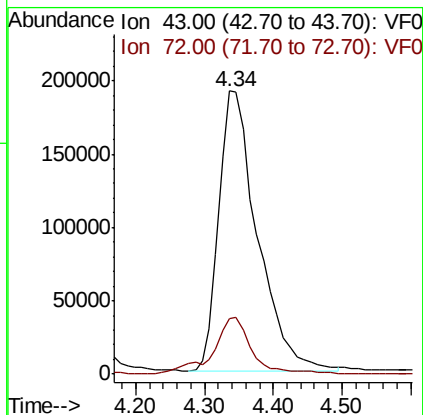
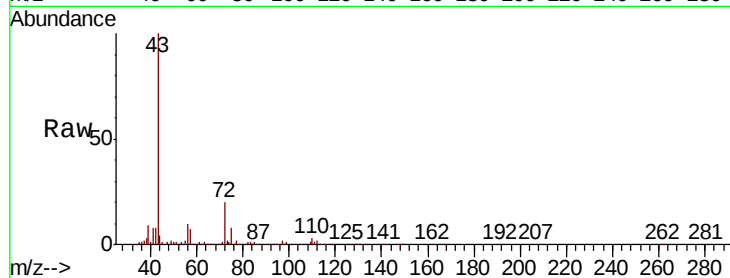
72 19.8 16.2 24.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 95.184 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF060562.D

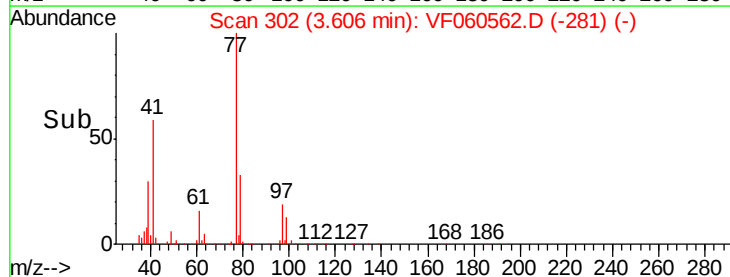
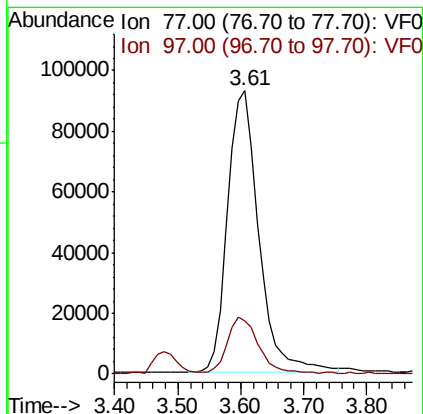
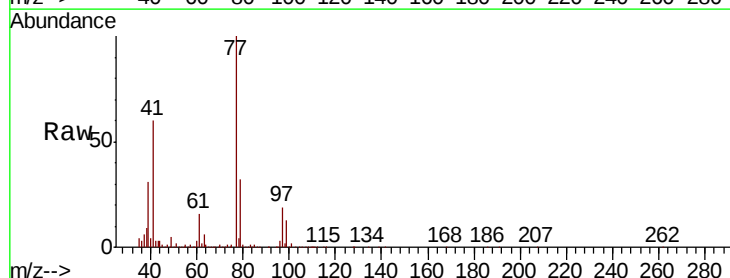
Acq: 2 Nov 2018 13:57

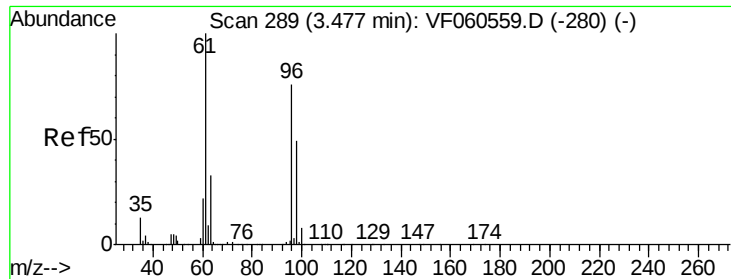
Tgt Ion: 77 Resp: 317788

Ion Ratio Lower Upper

77 100

97 18.9 9.8 29.3





#27

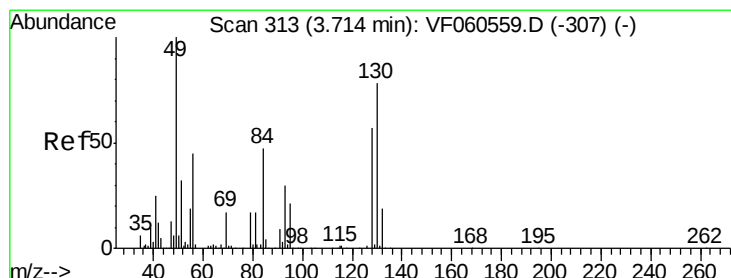
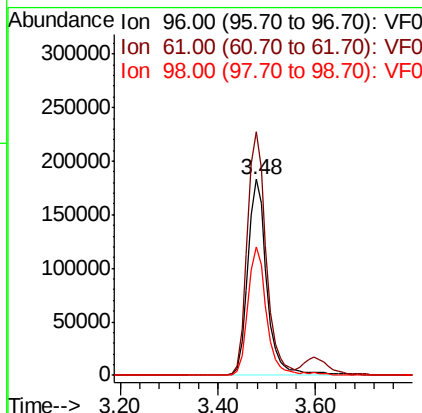
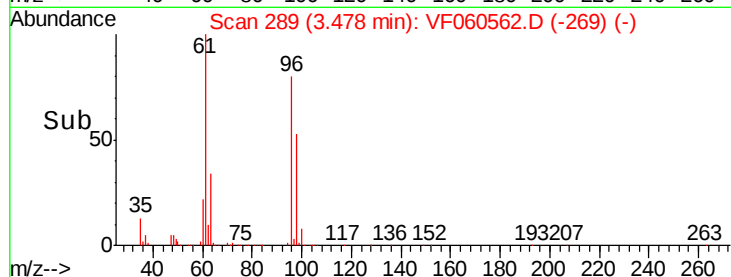
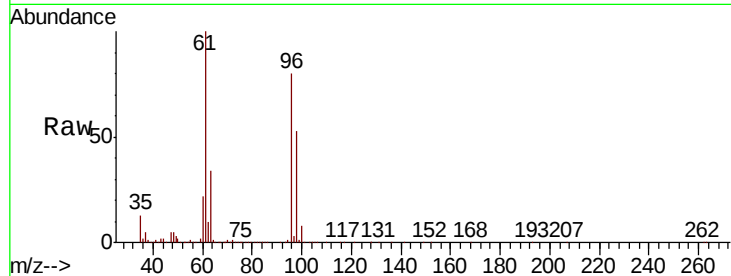
cis-1,2-Dichloroethene
Concen: 146.661 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
96	100	492427		
61	124.3	0.0	263.0	
98	65.8	0.0	130.6	

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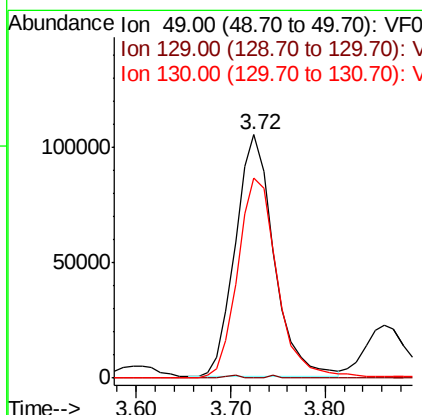
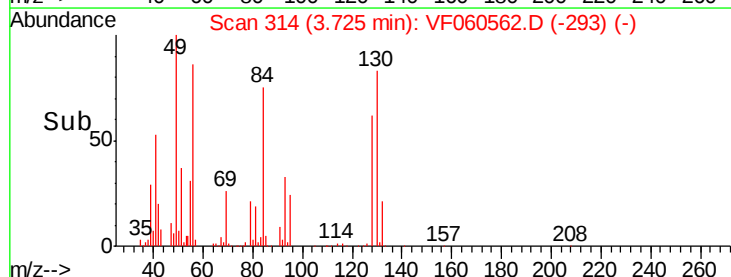
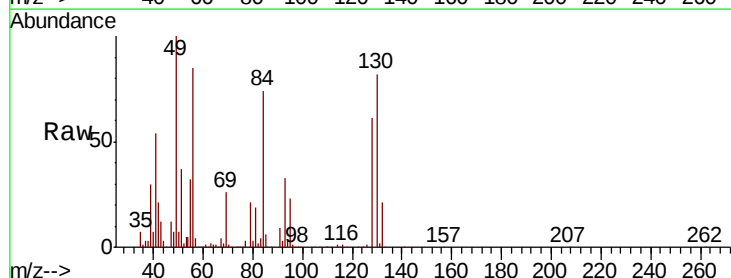
MMDadoda
11/5/2018 3:55:38 PM

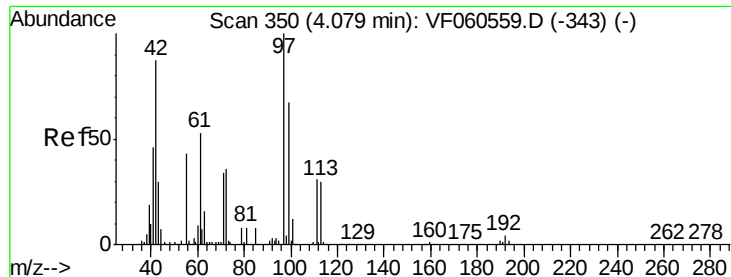


#28

Bromochloromethane
Concen: 144.930 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	297479		
129	0.0	0.0	4.6	
130	82.1	61.8	92.8	





#29

Tetrahydrofuran

Concen: 901.842 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

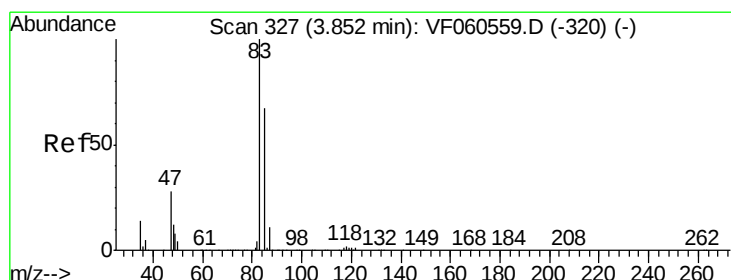
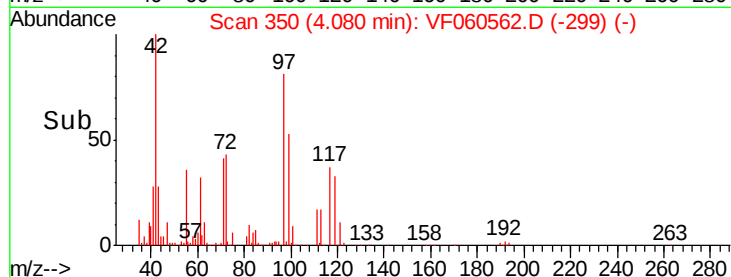
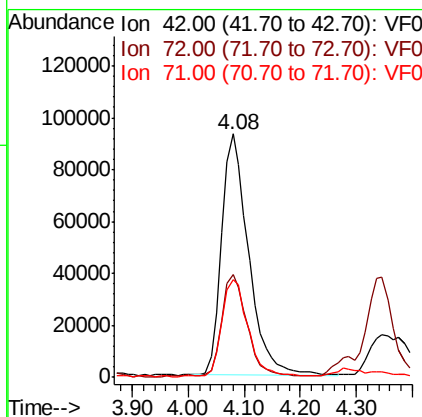
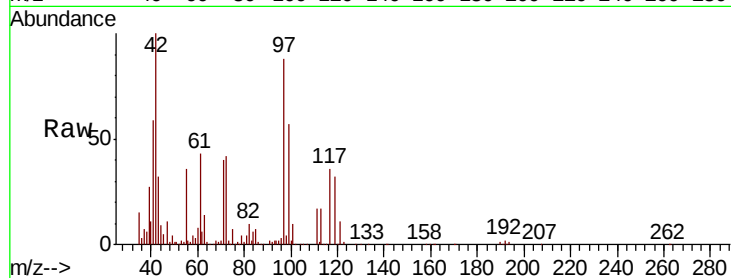
ClientSampleId :

VSTDIC150

Tot Ion:	42	Resp:	311212
Ion Ratio		Lower	Upper
42	100		
72	39.5	31.4	47.0
71	38.5	31.8	47.6

Manual Integrations
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#30

Chloroform

Concen: 106.902 ug/l

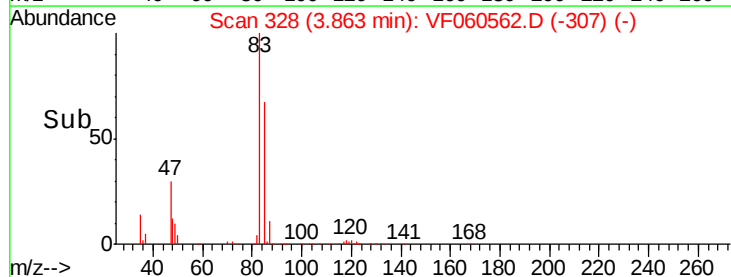
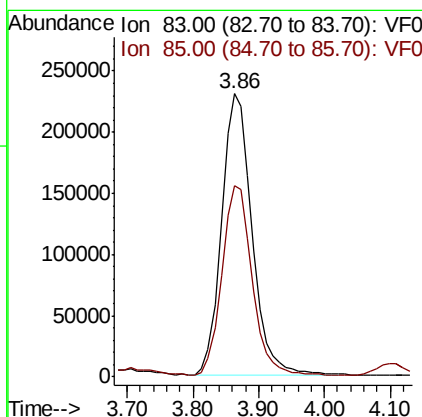
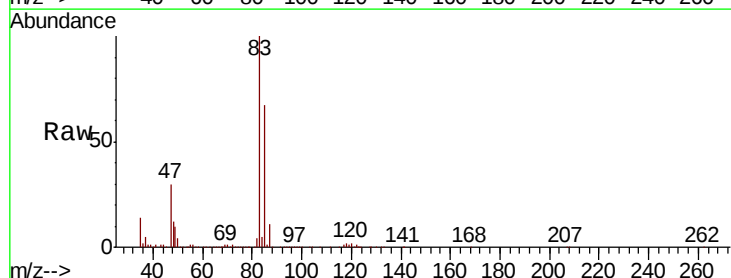
RT: 3.86 min Scan# 328

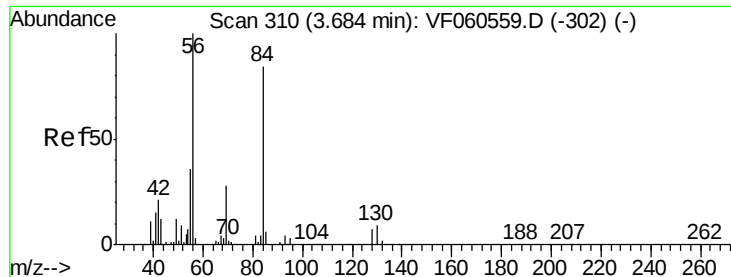
Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	83	Resp:	736473
Ion Ratio		Lower	Upper
83	100		
85	67.4	53.7	80.5





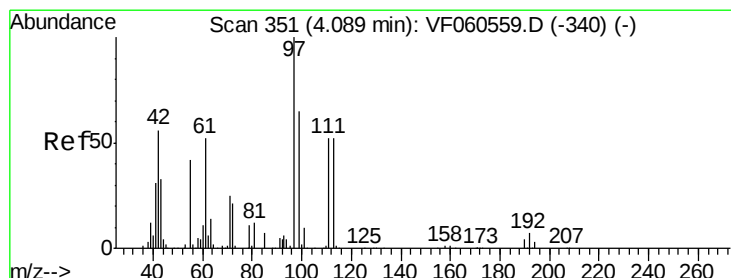
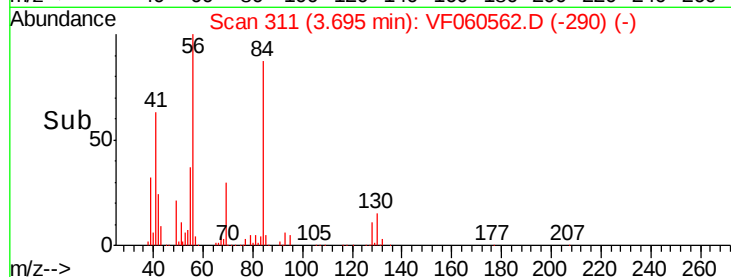
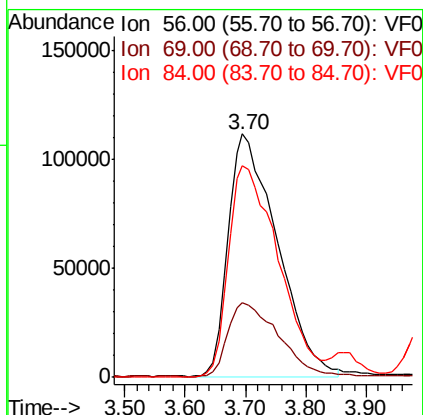
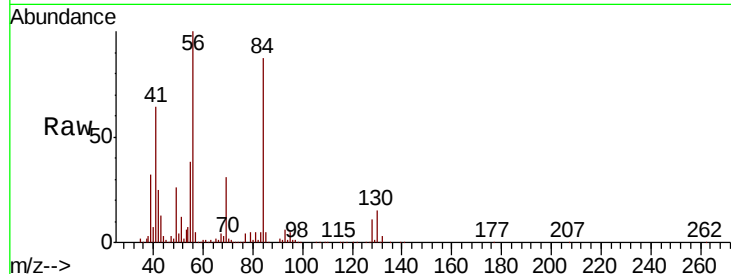
#31
Cyclohexane
Concen: 150.066 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.0	34.4
84	86.7	67.1	100.7

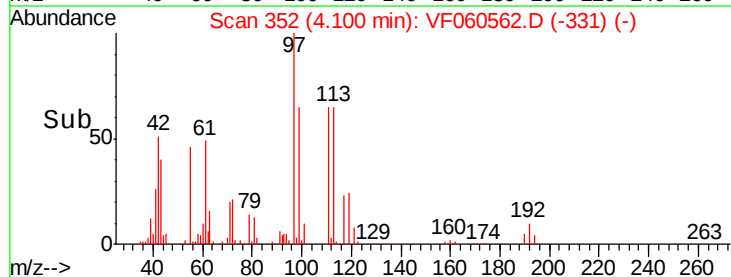
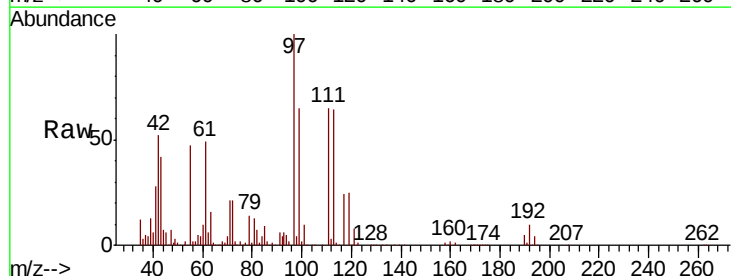
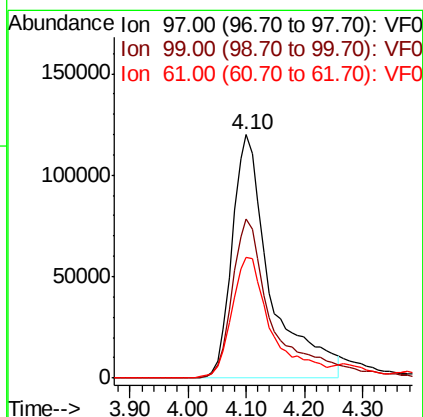
Manual Integrations
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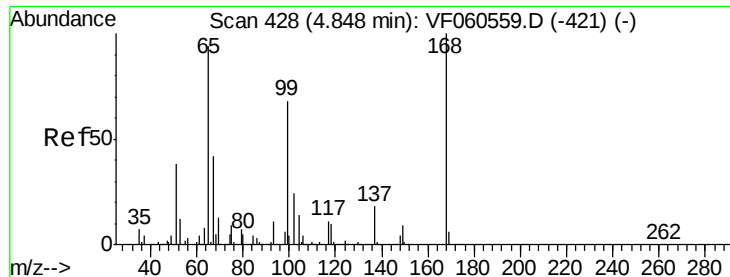
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 98.547 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.4	78.6
61	49.4	41.5	62.3





#33

1,2-Dichloroethane-d4

Concen: 102.942 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 65 Resp: 360998

Ion Ratio Lower Upper

65 100

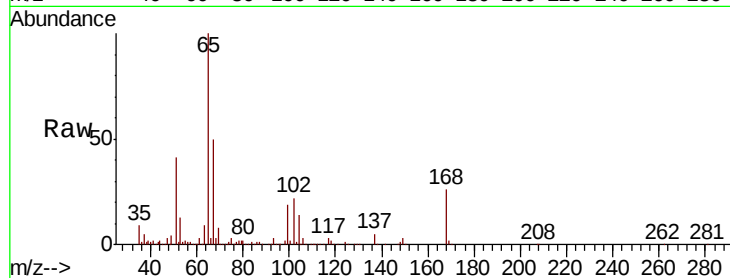
67 50.3 0.0 101.8

Manual Integrations

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

150000

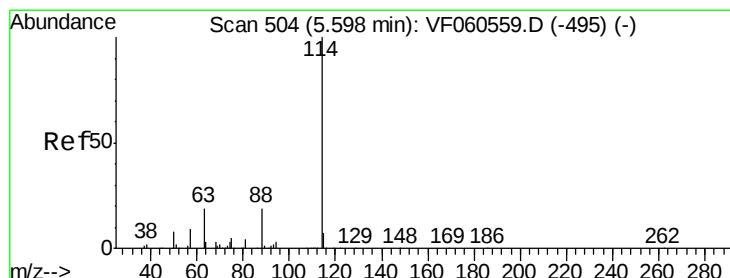
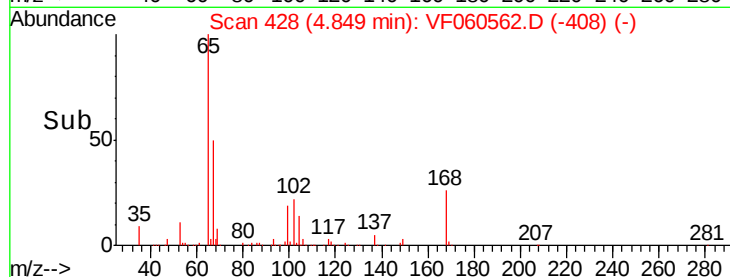
100000

50000

0

4.75 4.80 4.85 4.90 4.95

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

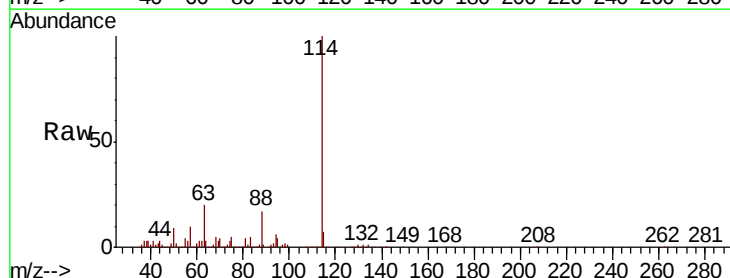
Tgt Ion: 114 Resp: 419096

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.0

88 17.4 0.0 38.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

200000

150000

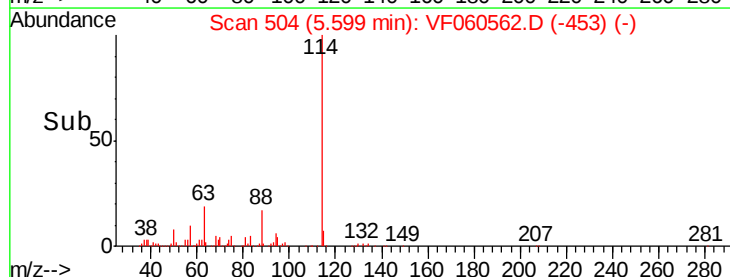
100000

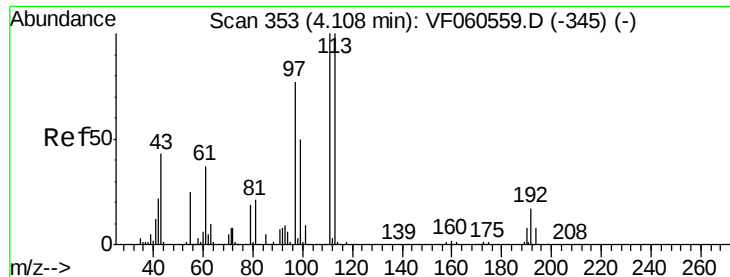
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





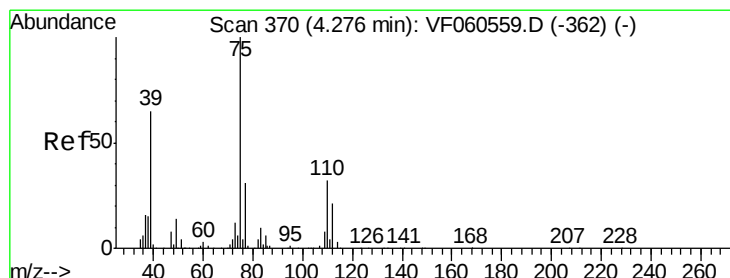
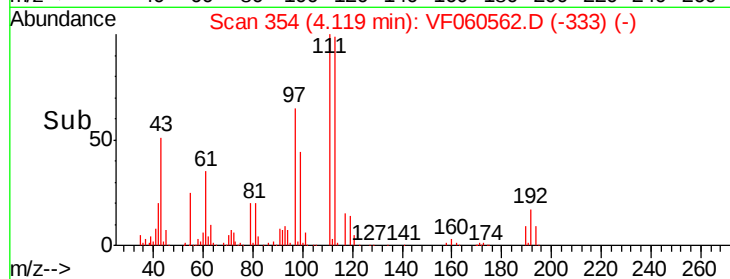
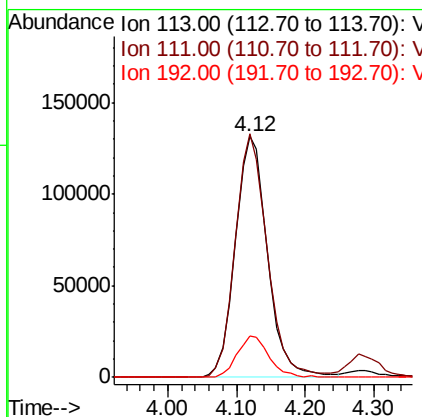
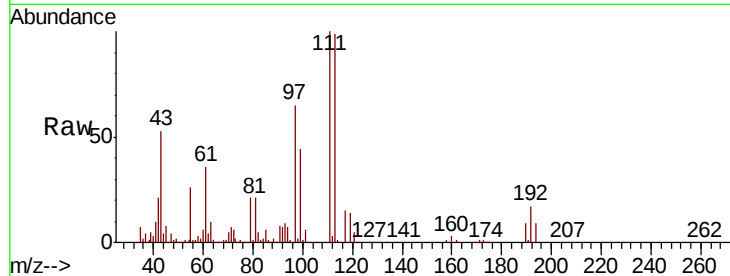
#35
 Dibromofluoromethane
 Concen: 108.241 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.2	79.9	119.9	
192	17.1	13.3	19.9	

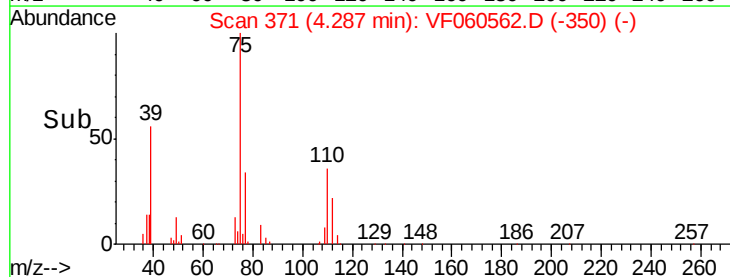
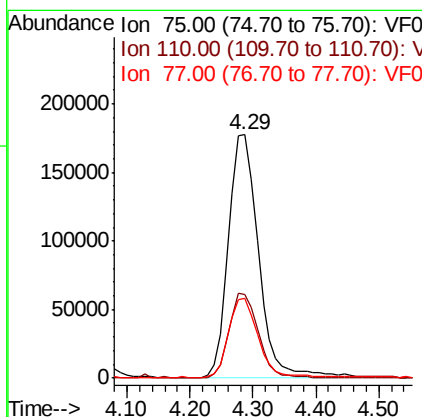
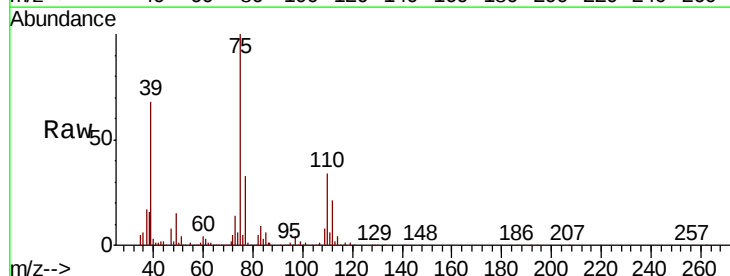
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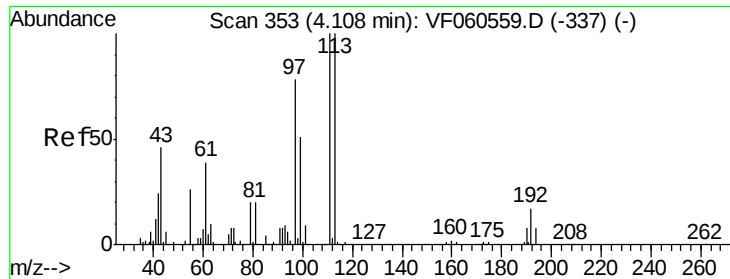
MMDadoda
 11/5/2018 3:55:38 PM



#36
 1,1-Dichloropropene
 Concen: 114.276 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.5	16.2	48.6	
77	32.9	25.0	37.6	





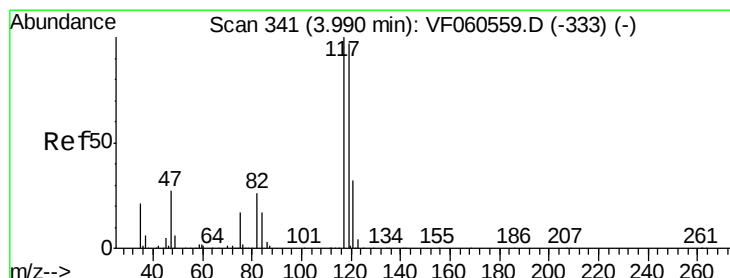
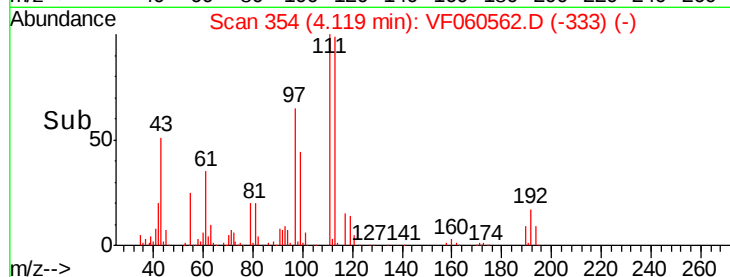
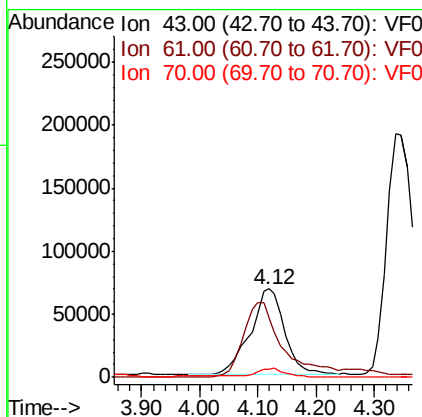
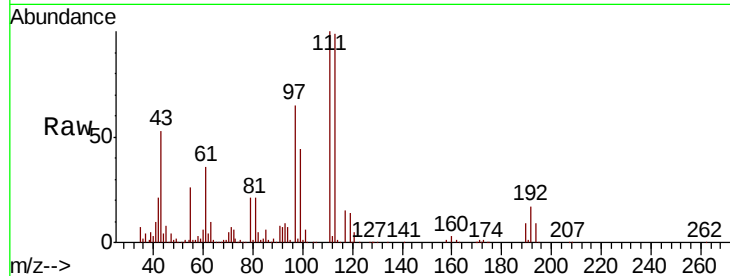
#37
Ethyl Acetate
Concen: 160.188 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	43	61	70	Ratio	Lower	Upper
281027	100	67.3	9.7			
		63.4	9.3			

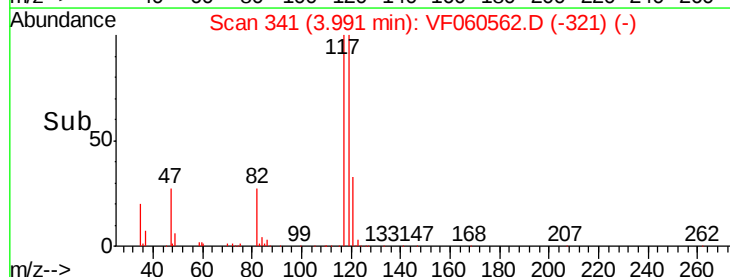
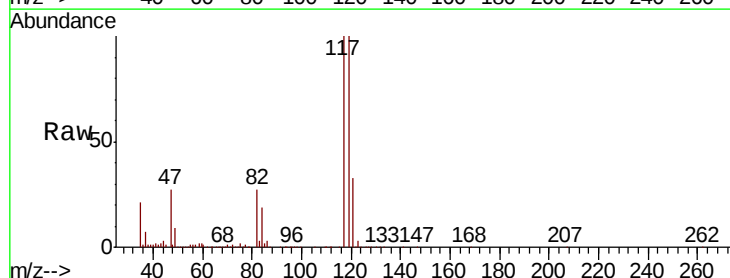
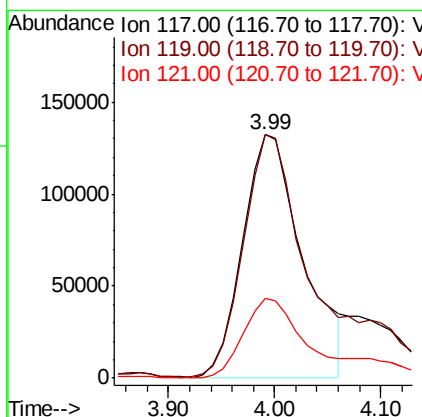
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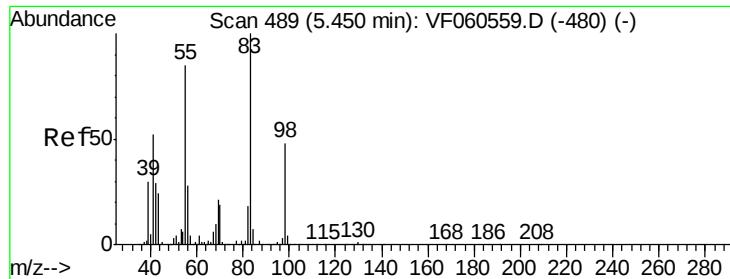
MMDadoda
11/5/2018 3:55:38 PM



#38
Carbon Tetrachloride
Concen: 88.825 ug/l m
RT: 3.99 min Scan# 341
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	117	119	121	Ratio	Lower	Upper
521369	100	100.0	33.0			
		77.8	25.6			





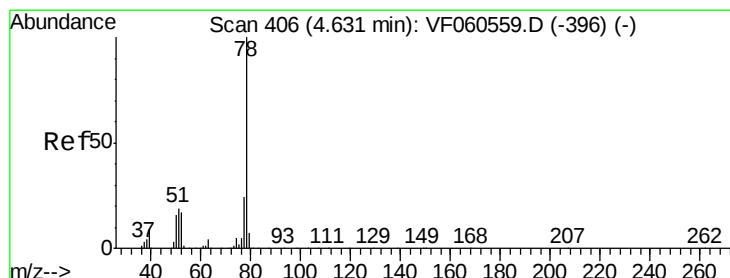
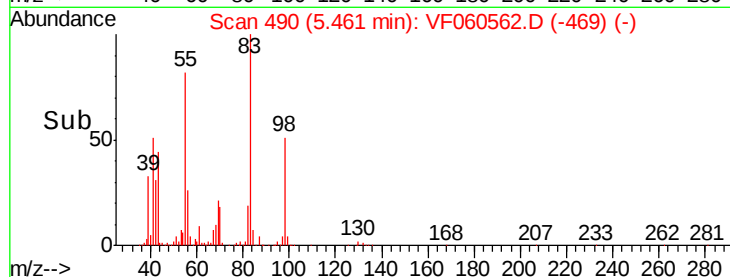
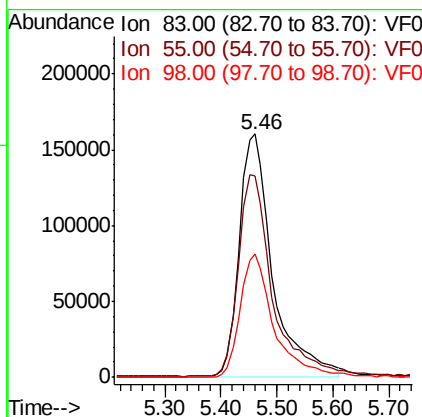
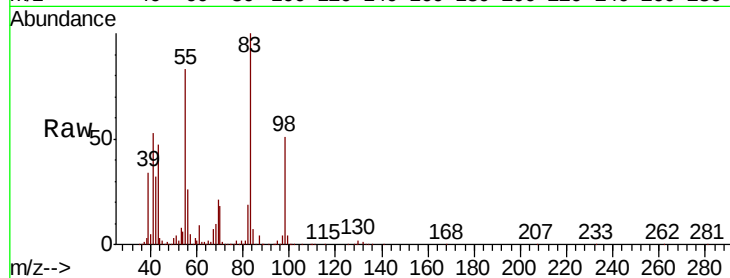
#39
Methylcyclohexane
Concen: 122.910 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.7	69.1	103.7
98	50.8	38.6	57.8

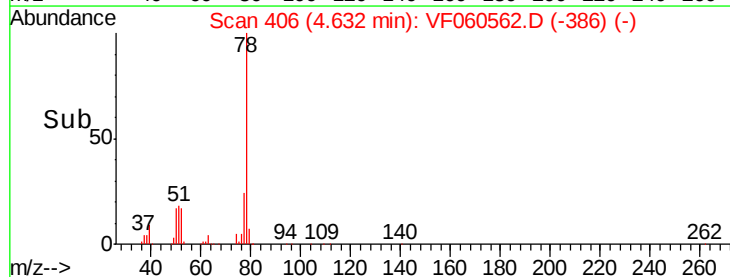
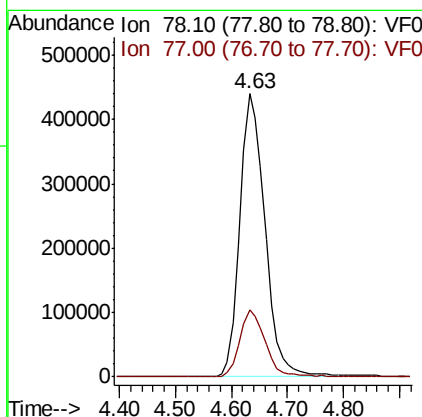
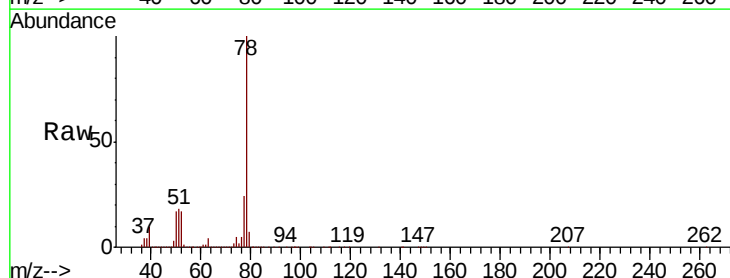
Manual Integrations
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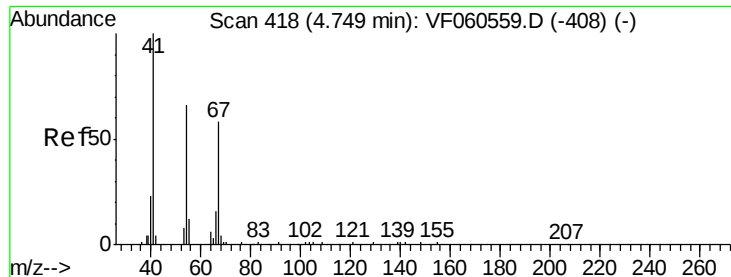
MMDadoda
11/5/2018 3:55:38 PM



#40
Benzene
Concen: 130.821 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9





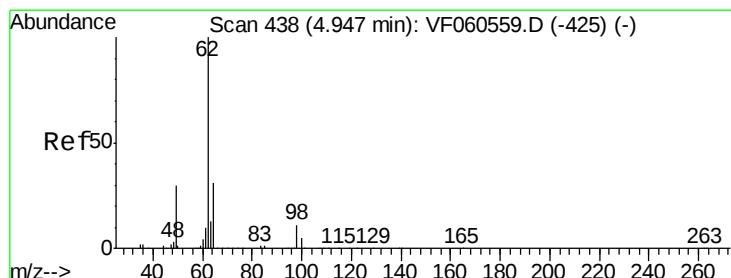
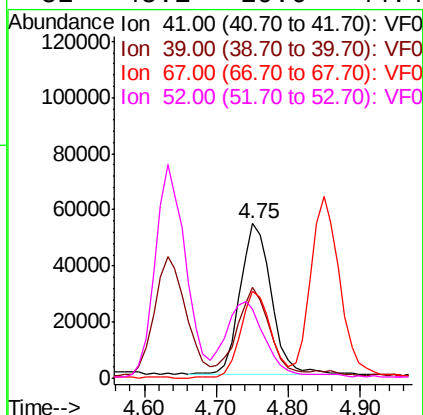
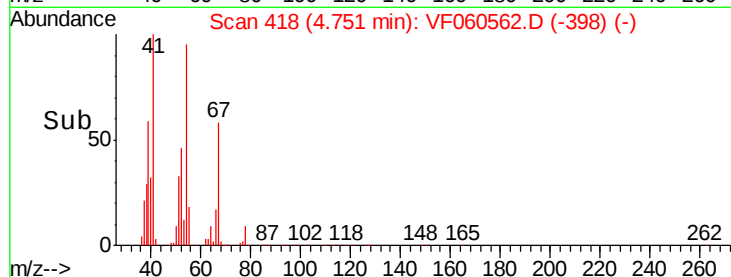
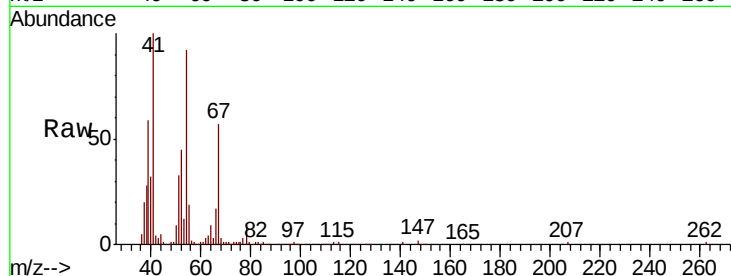
#41
Methacrylonitrile
Concen: 160.241 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Lower	Upper
161004	41	100		
	39	58.9	45.6	68.4
	67	56.5	45.3	67.9
	52	45.1	29.6	44.4

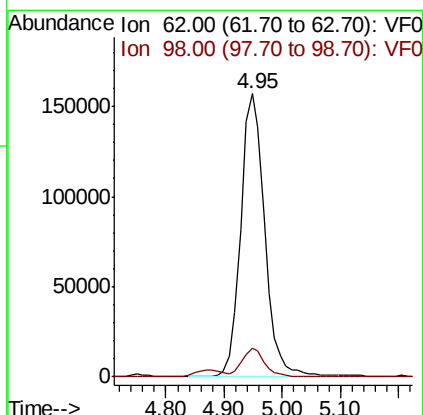
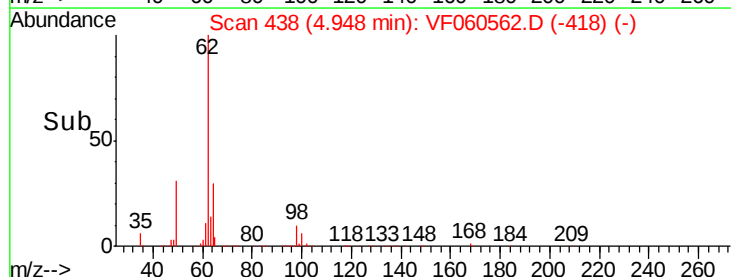
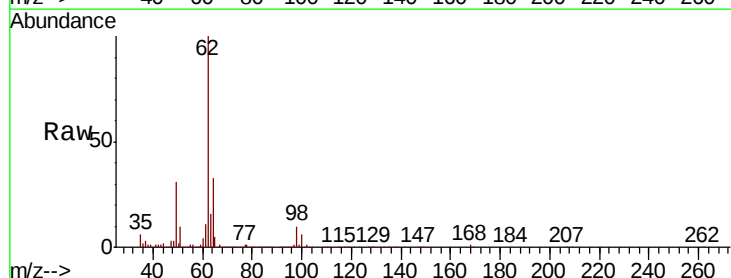
Manual Integrations
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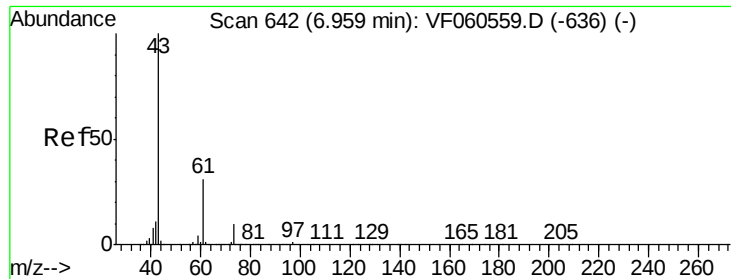
MMDadoda
11/5/2018 3:55:38 PM



#42
1,2-Dichloroethane
Concen: 100.264 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ion	Ratio	Lower	Upper
453891	62	100		
	98	10.0	0.0	22.4





#43

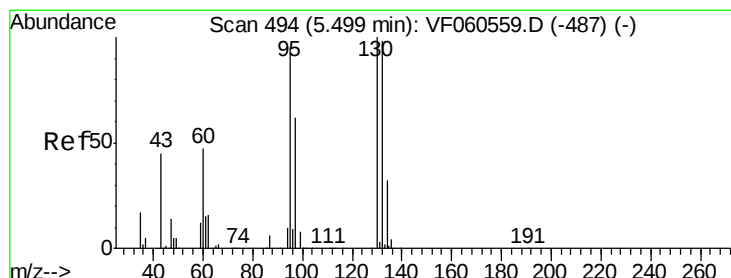
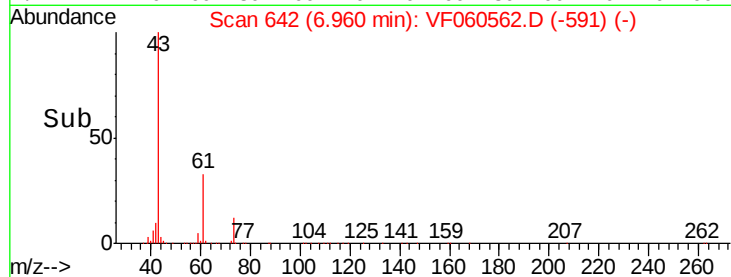
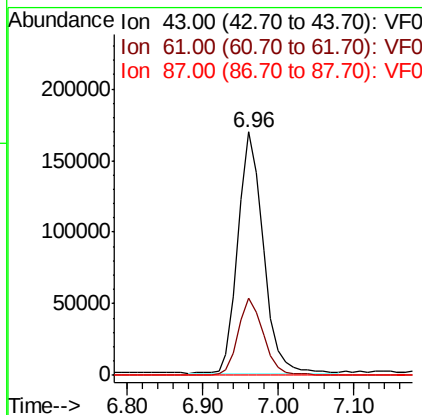
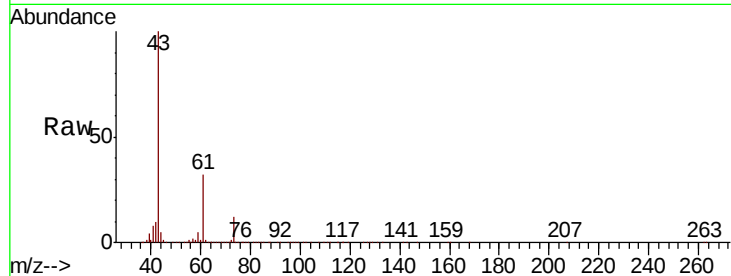
Isopropyl Acetate
 Concen: 187.098 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.8	24.2	36.2
87	0.3	0.2	0.4

Manual Integrations
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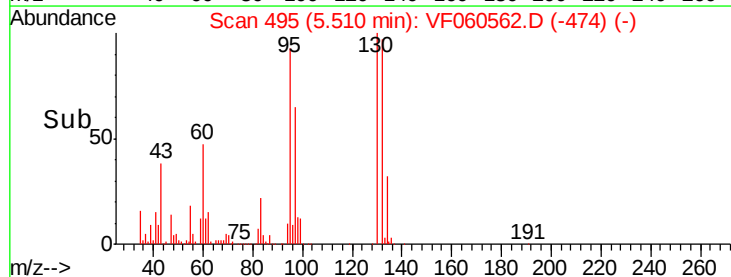
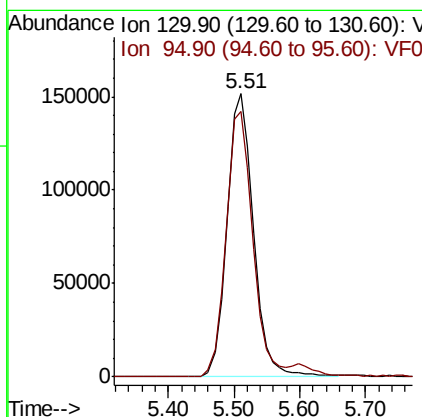
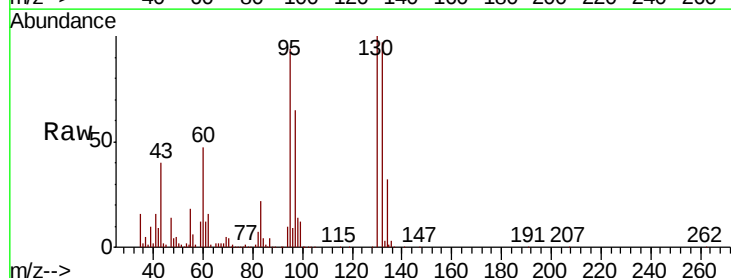
MMDadoda
 11/5/2018 3:55:38 PM

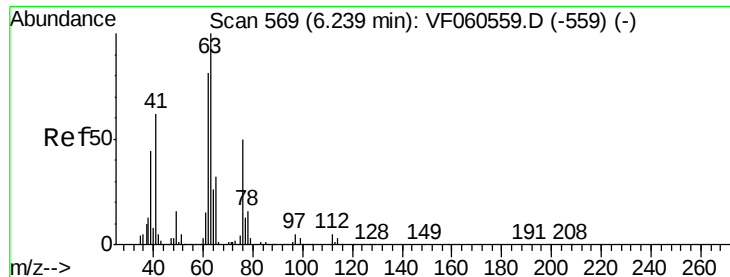


#44

Trichloroethene
 Concen: 126.816 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.01 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	191.0





#45

1,2-Dichloropropane

Concen: 144.777 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 379767

Ion Ratio Lower Upper

63 100

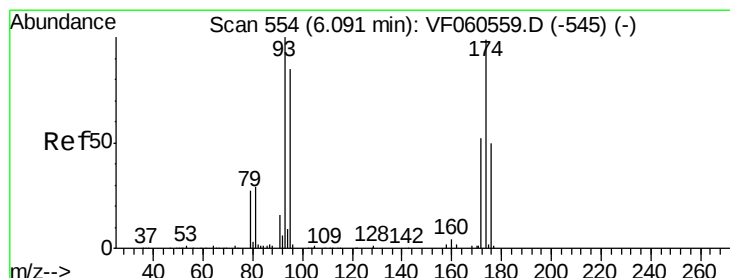
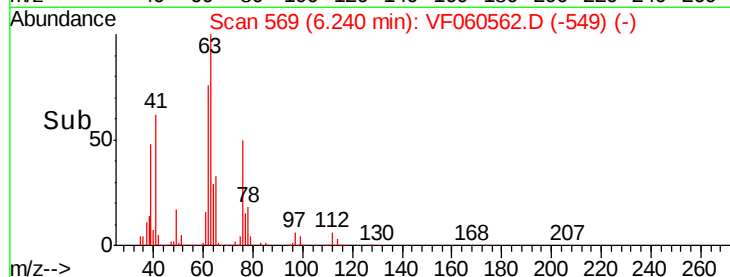
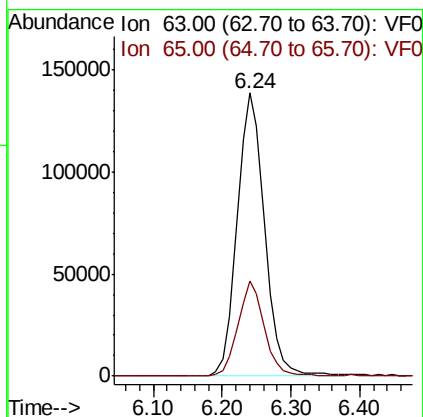
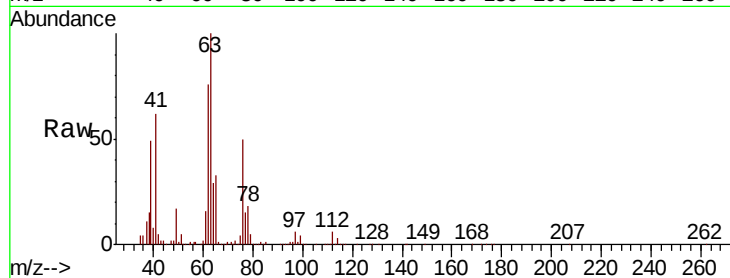
65 33.4 25.4 38.0

Manual Integrations

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#46

Dibromomethane

Concen: 134.652 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

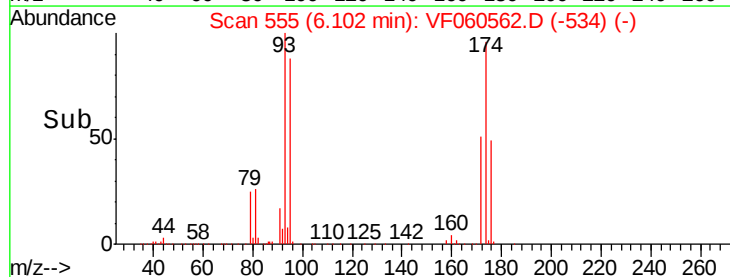
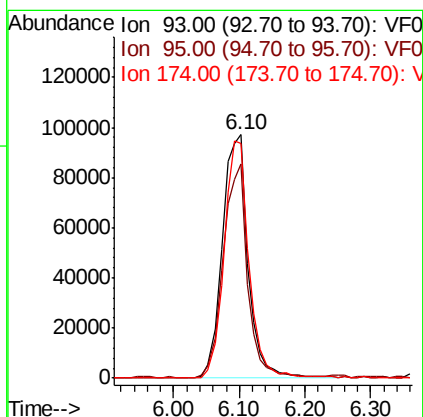
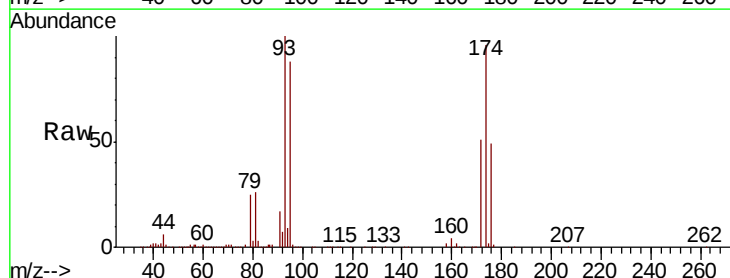
Tgt Ion: 93 Resp: 266473

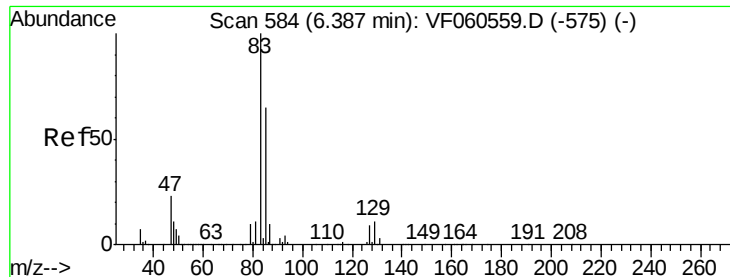
Ion Ratio Lower Upper

93 100

95 87.9 68.6 102.8

174 96.3 79.0 118.4





#47

Bromodichloromethane

Concen: 121.178 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

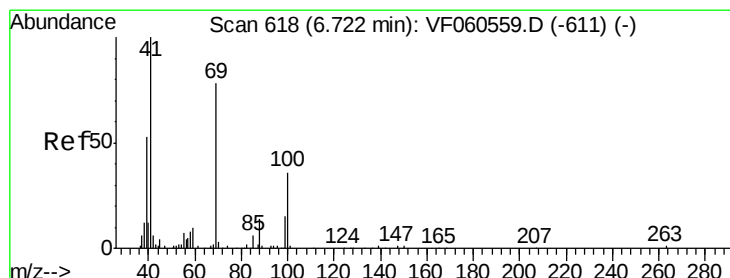
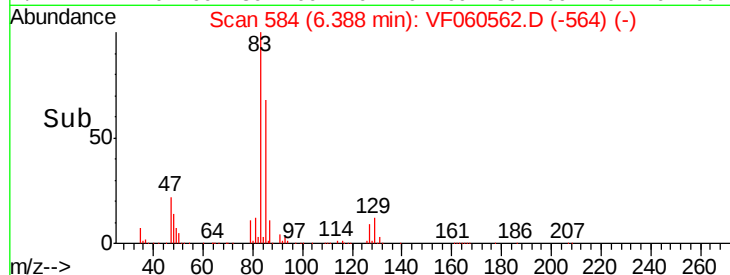
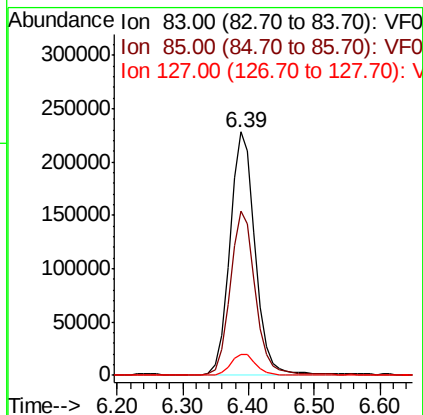
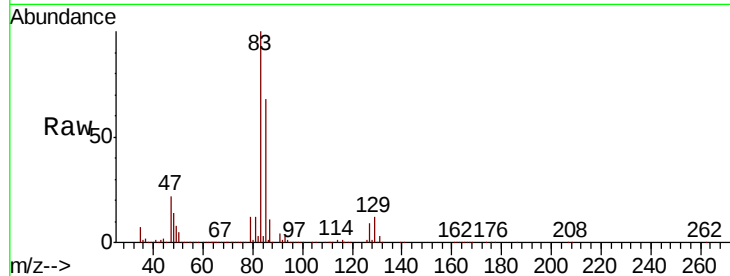
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	607600
Ion Ratio	Lower	Upper	
83	100		
85	67.7	51.8	77.6
127	8.5	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 168.416 ug/l

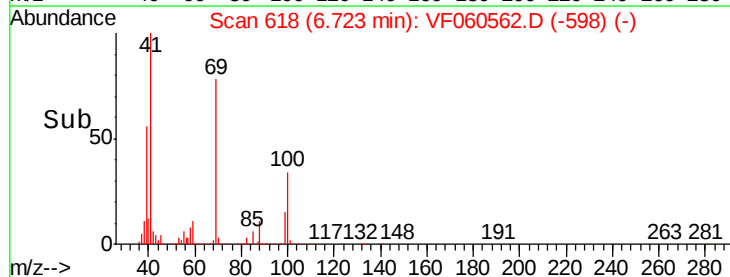
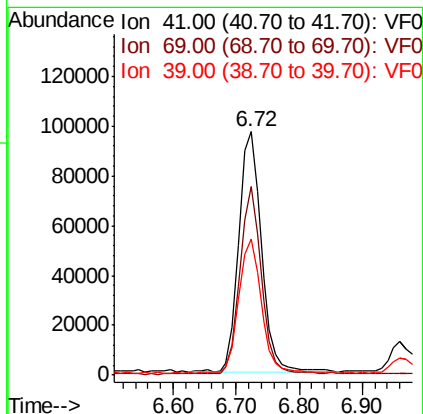
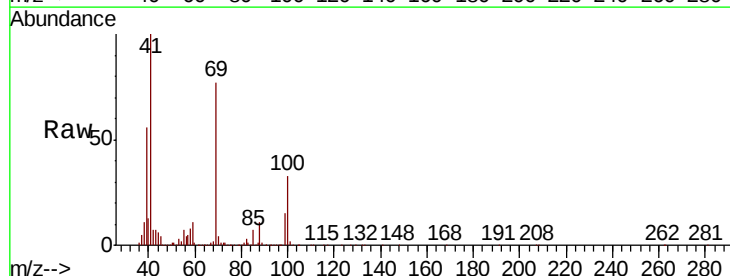
RT: 6.72 min Scan# 618

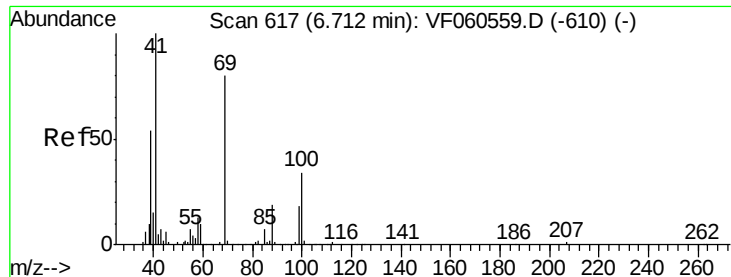
Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	41	Resp:	238243
Ion Ratio	Lower	Upper	
41	100		
69	77.4	61.1	91.7
39	55.8	43.0	64.6





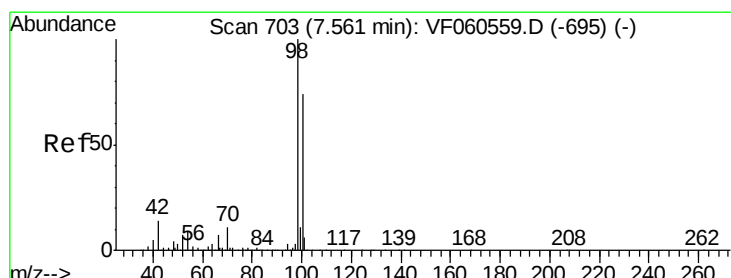
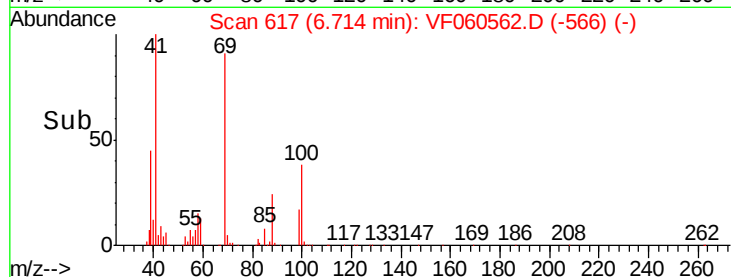
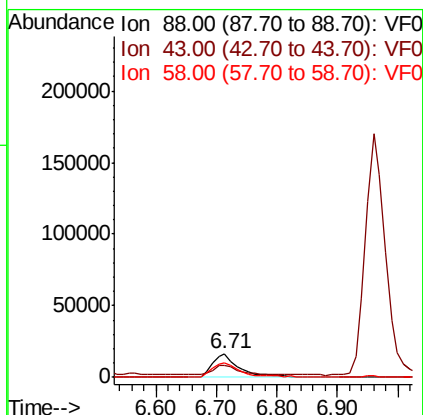
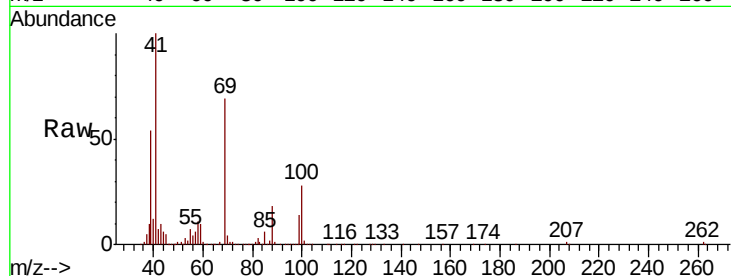
#49
1,4-Dioxane
Concen: 3705.346 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	53.2	61.2	91.8#
58	63.1	56.9	85.3

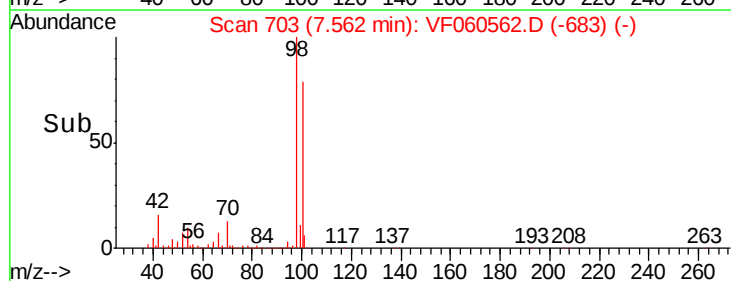
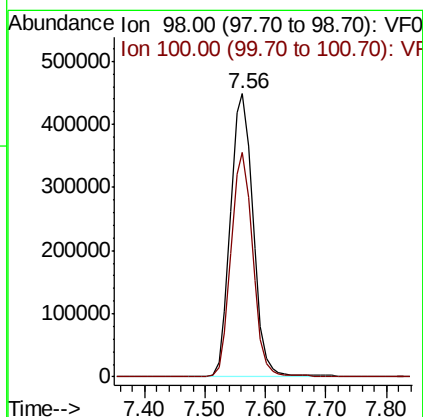
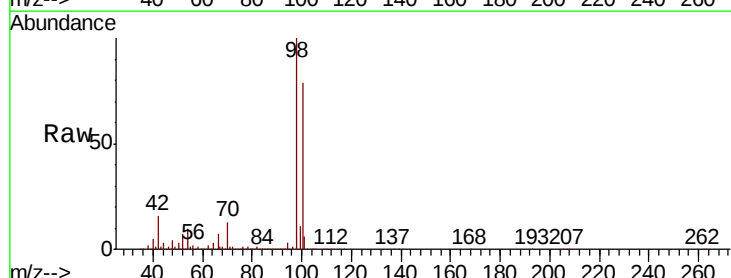
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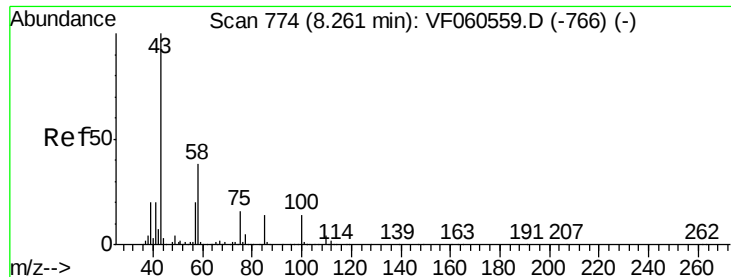
MMDadoda
11/5/2018 3:55:38 PM



#50
Toluene-d8
Concen: 120.929 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
98	100		
100	79.4	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 795.766 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1200590

Ion Ratio Lower Upper

43 100

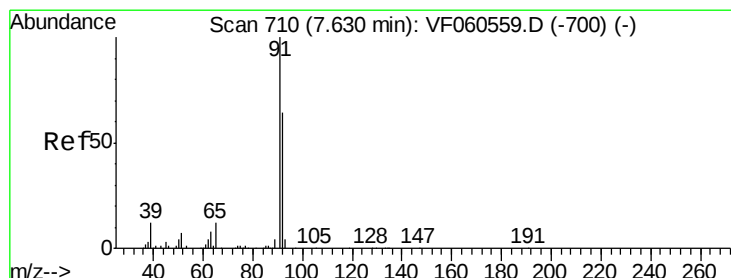
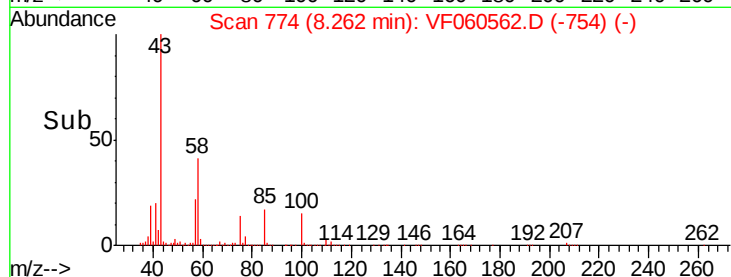
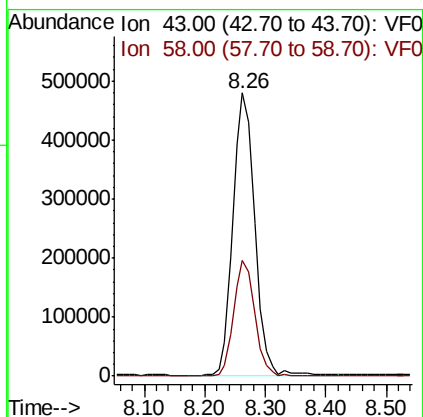
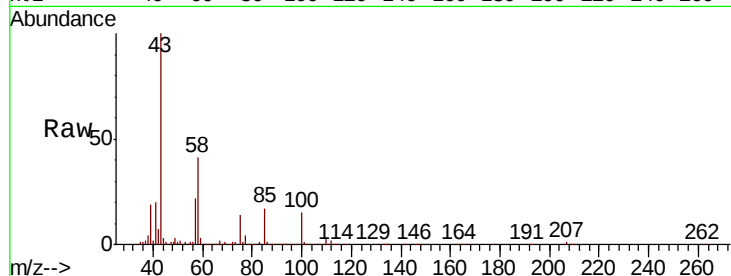
58 40.8 30.1 45.1

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11/5/2018 3:55:38 PM



#52

Toluene

Concen: 137.594 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060562.D

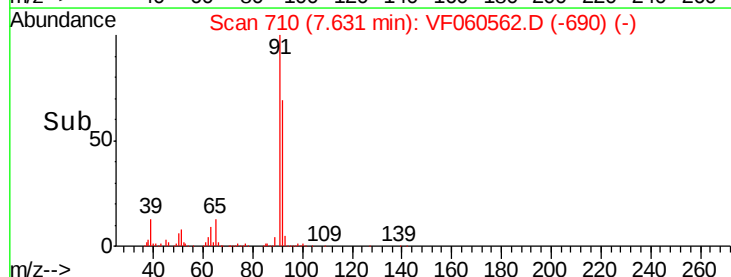
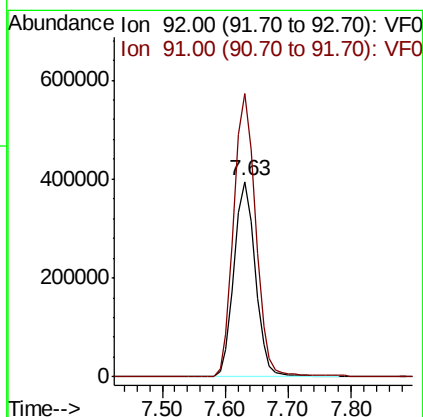
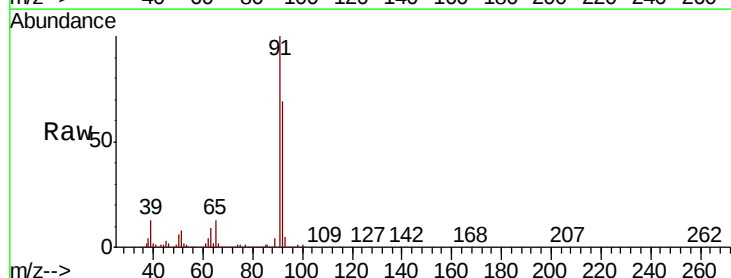
Acq: 2 Nov 2018 13:57

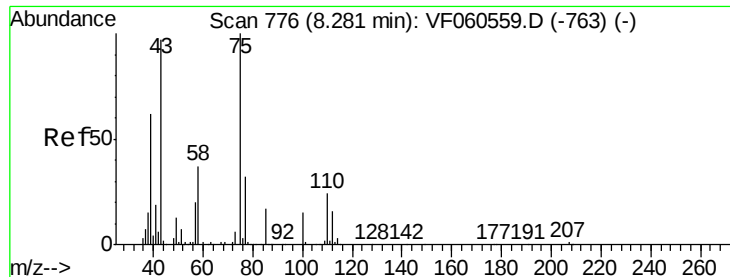
Tgt Ion: 92 Resp: 927174

Ion Ratio Lower Upper

92 100

91 145.0 124.5 186.7





#53

t-1,3-Dichloropropene

Concen: 124.693 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 75 Resp: 492076

Ion Ratio Lower Upper

75 100

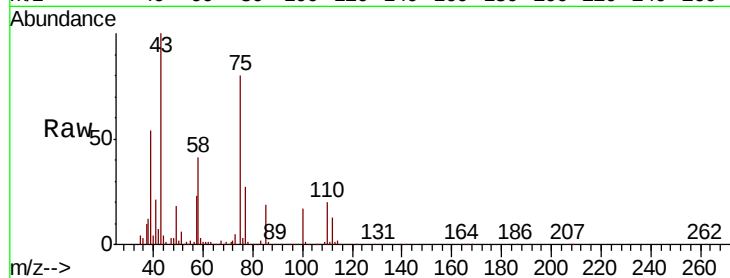
77 34.0 25.7 38.5

Manual Integrations

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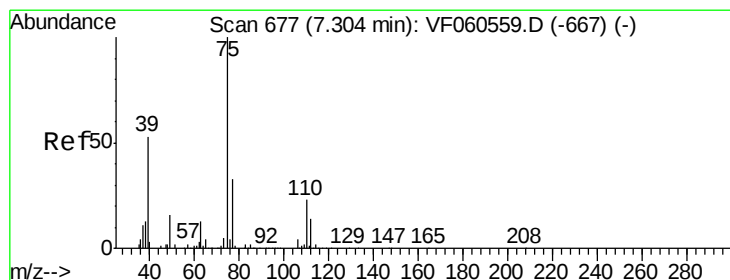
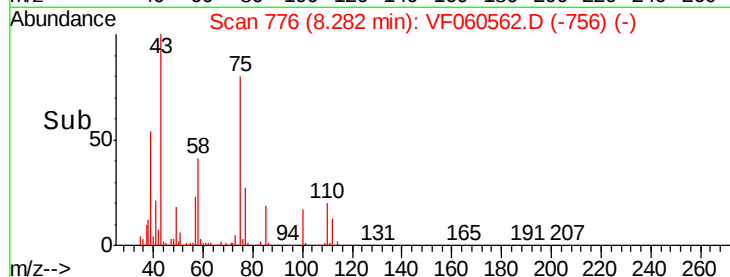
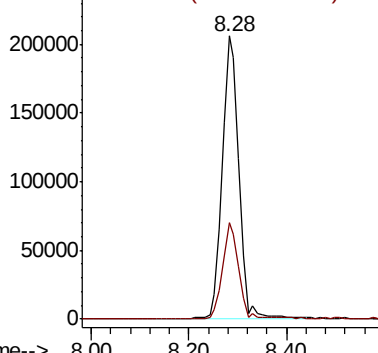
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 131.226 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

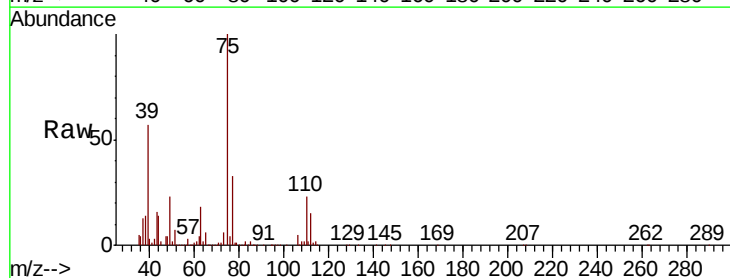
Tgt Ion: 75 Resp: 627510

Ion Ratio Lower Upper

75 100

77 32.7 26.7 40.1

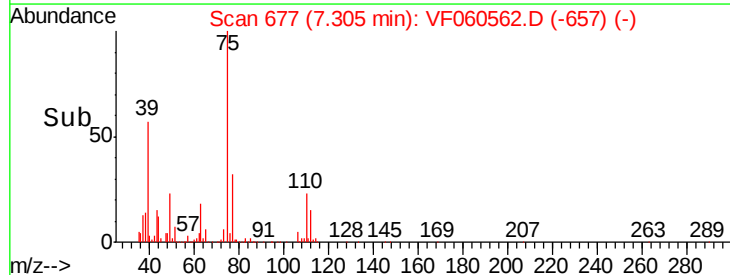
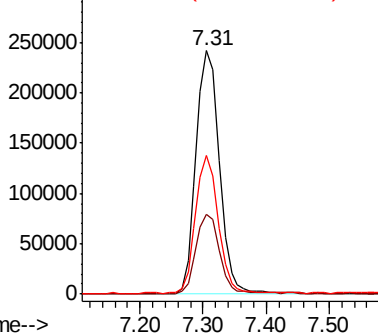
39 56.9 43.0 64.4

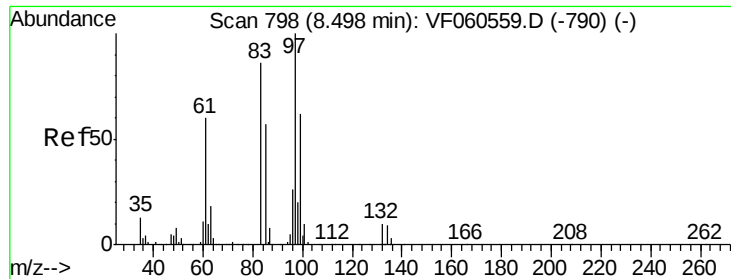


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 154.115 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

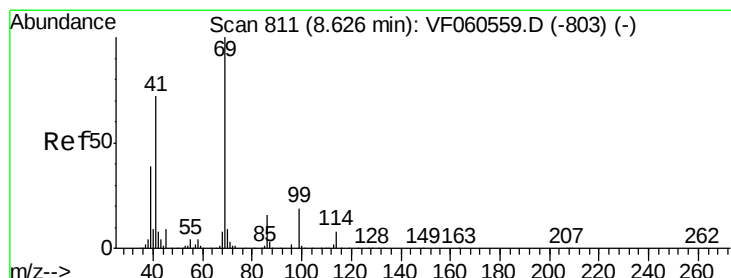
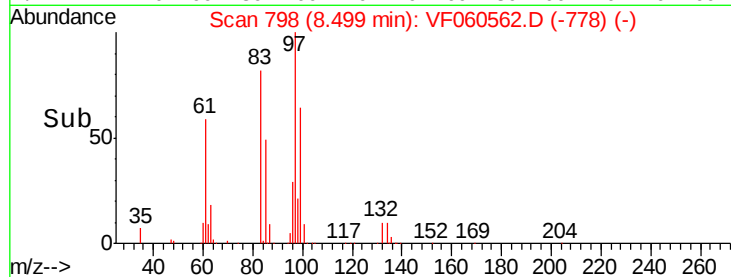
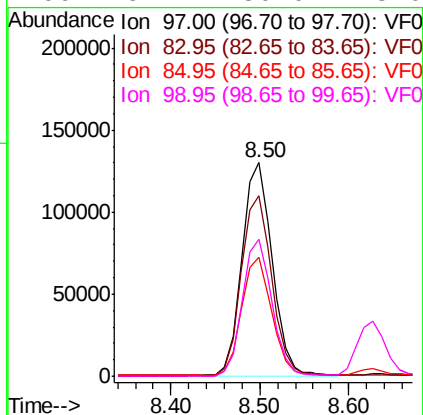
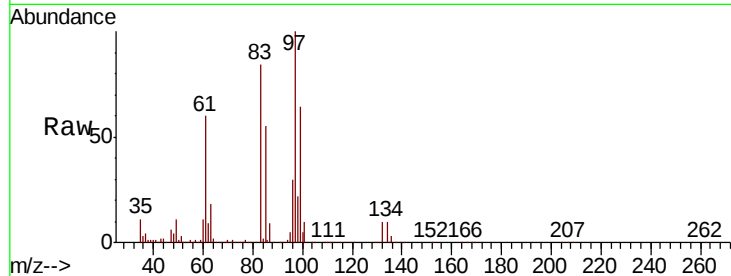
ClientSampleId :

VSTDIC150

Tot Ion:	97	Resp:	304475
Ion Ratio	Lower	Upper	
97	100		
83	84.3	69.4	104.0
85	55.5	46.6	69.8
99	64.4	50.0	75.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 167.052 ug/l

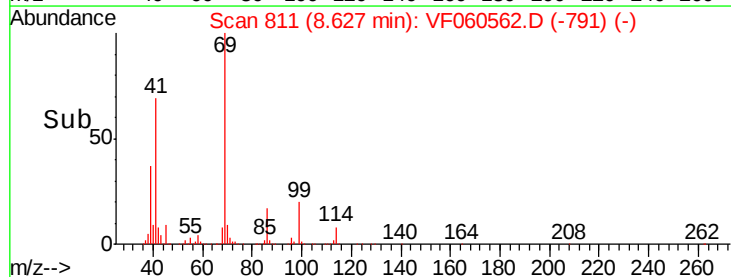
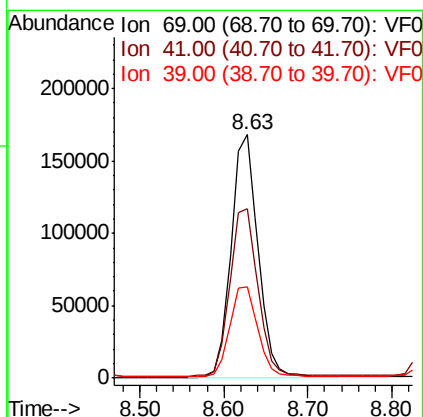
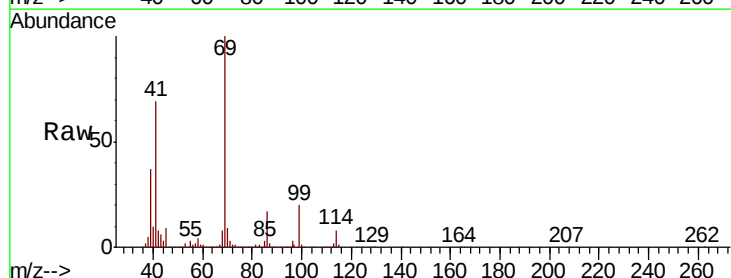
RT: 8.63 min Scan# 811

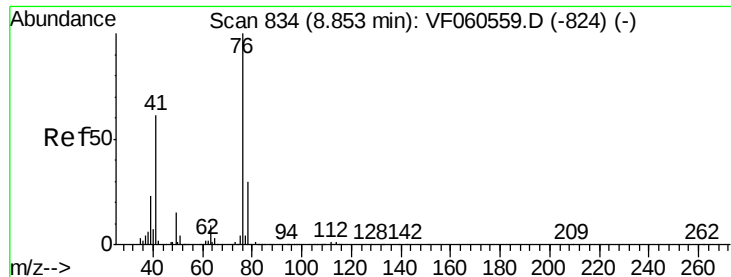
Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	69	Resp:	373669
Ion Ratio	Lower	Upper	
69	100		
41	69.3	59.2	88.8
39	37.3	32.3	48.5





#57

1,3-Dichloropropane

Concen: 159.596 ug/l

RT: 8.85 min Scan# 834

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 534054

Ion Ratio Lower Upper

76 100

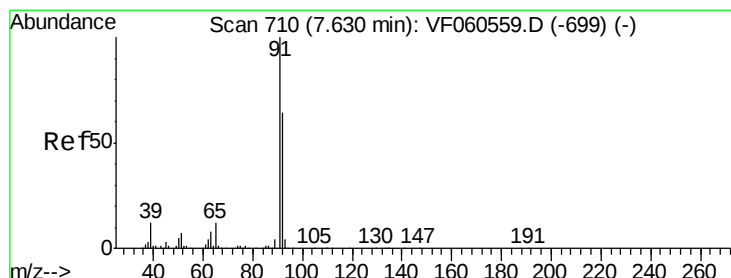
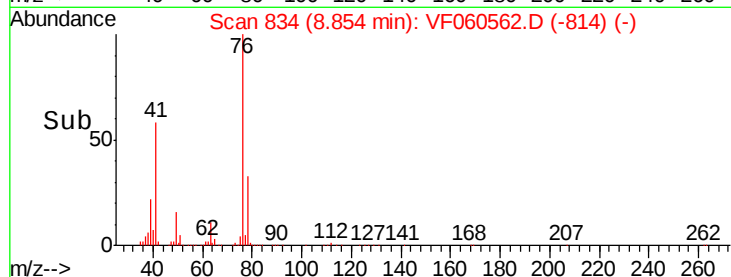
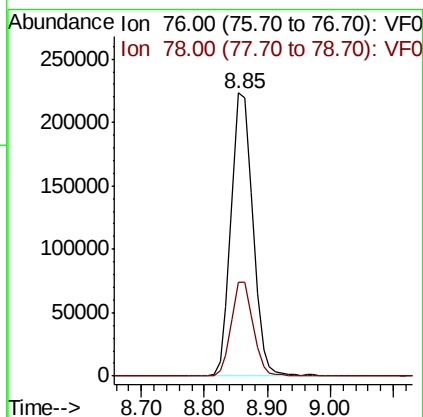
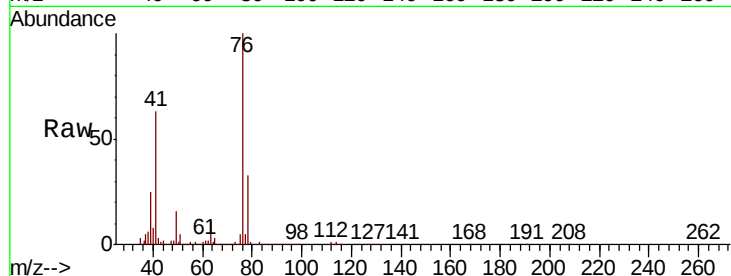
78 33.0 24.2 36.4

Manual Integrations

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MMDadoda

11/5/2018 3:55:38 PM



#58

2-Chloroethyl Vinyl ether

Concen: 546.885 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060562.D

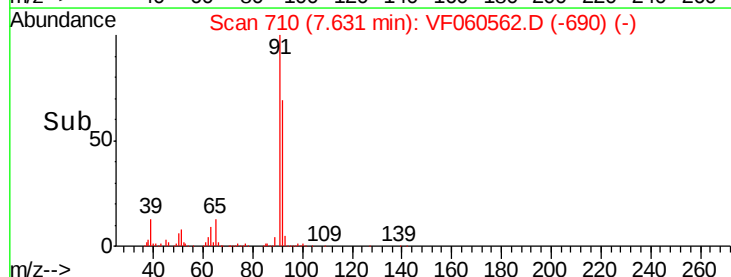
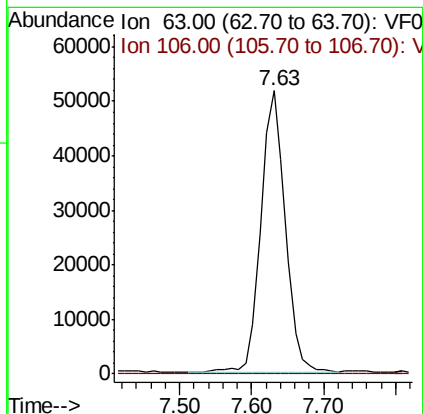
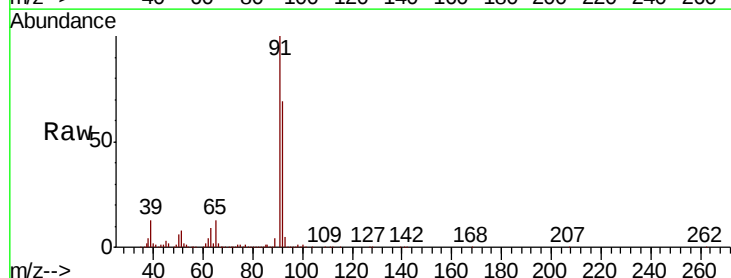
Acq: 2 Nov 2018 13:57

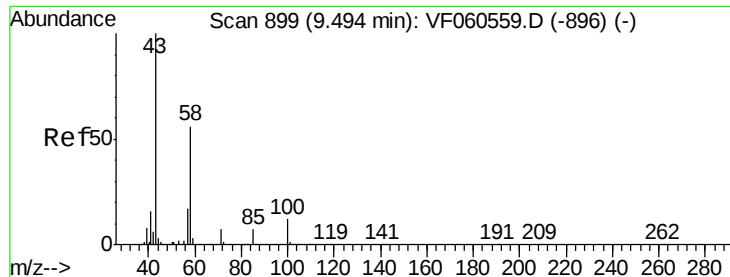
Tgt Ion: 63 Resp: 122928

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





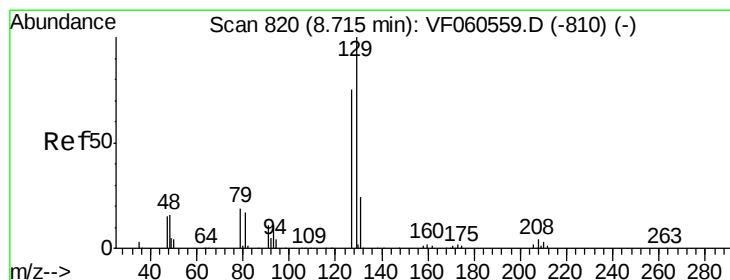
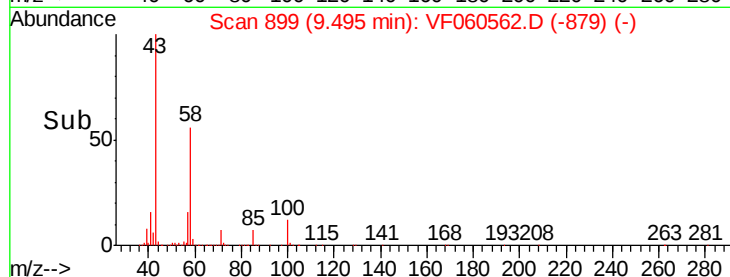
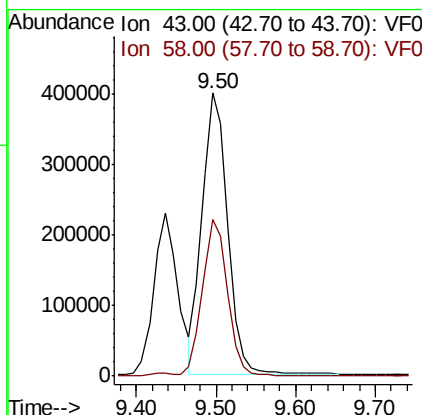
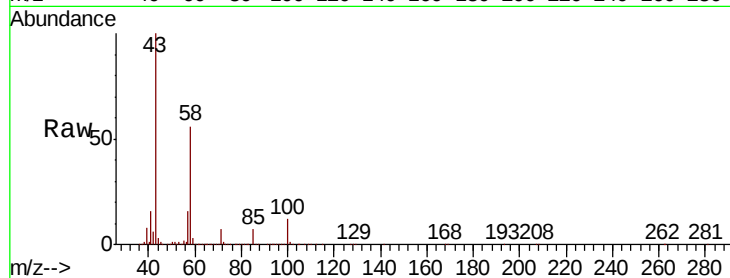
#59
2-Hexanone
Concen: 813.903 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC150

Tot Ion: 43 Resp: 889421
Ion Ratio Lower Upper
43 100
58 55.5 26.1 78.3

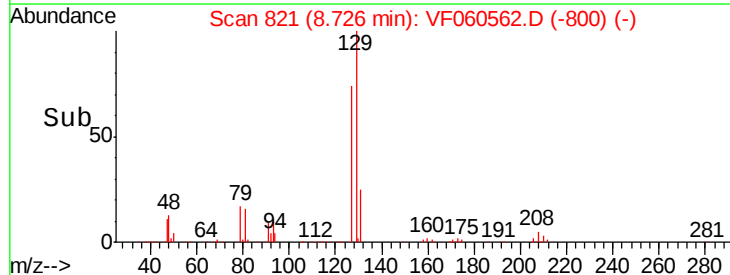
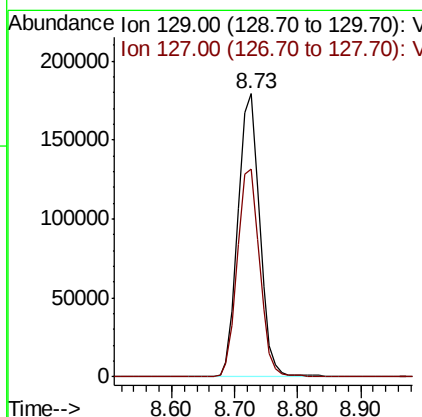
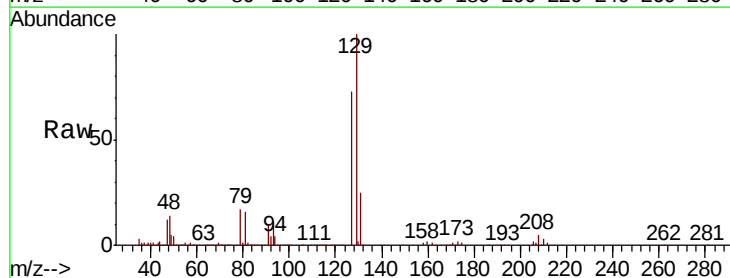
Manual Integrations
APPROVED

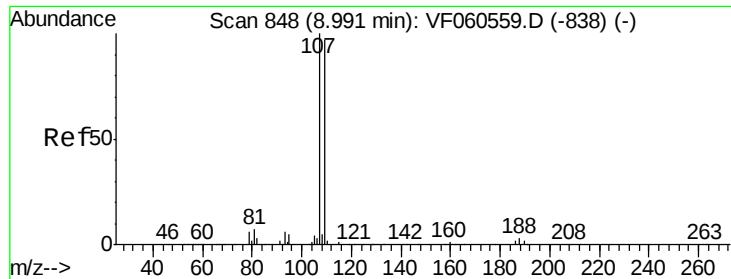
MMDadoda
11/5/2018 3:55:38 PM



#60
Dibromochloromethane
Concen: 135.459 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion: 129 Resp: 425735
Ion Ratio Lower Upper
129 100
127 73.4 37.8 113.3





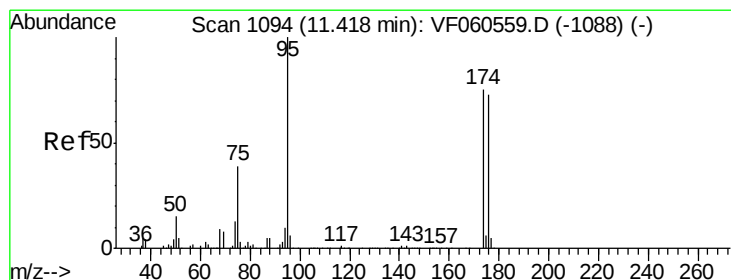
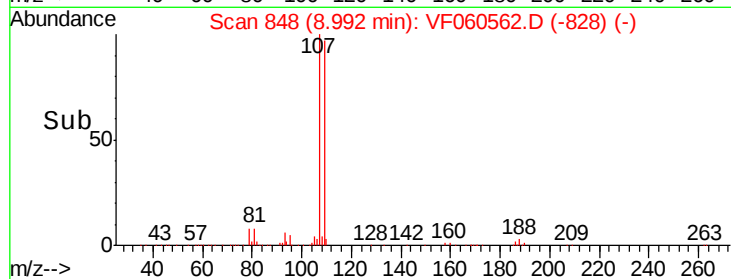
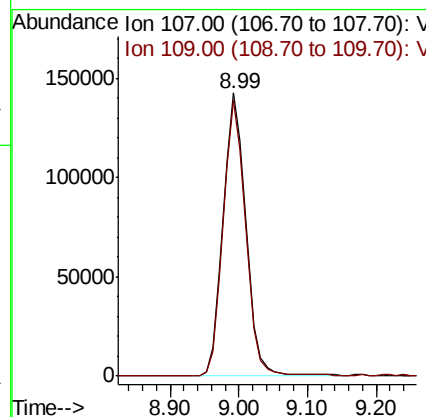
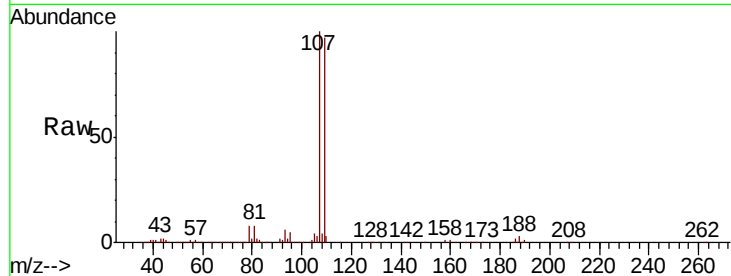
#61
 1,2-Dibromoethane
 Concen: 144.726 ug/l
 RT: 8.99 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.3	77.5	116.3

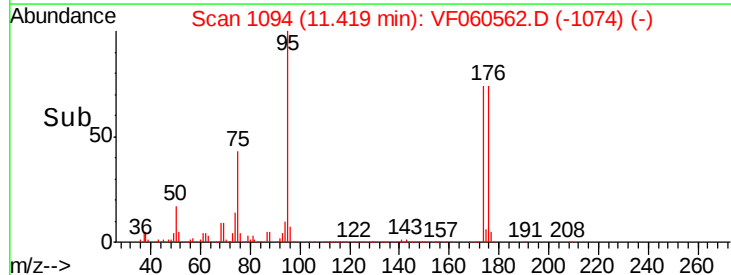
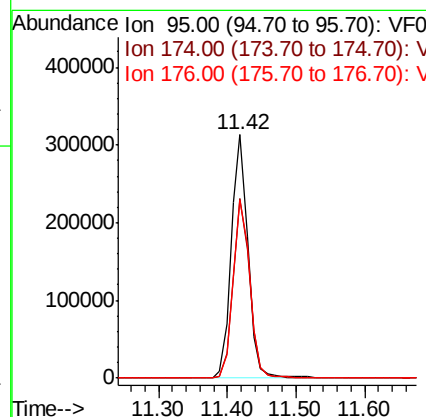
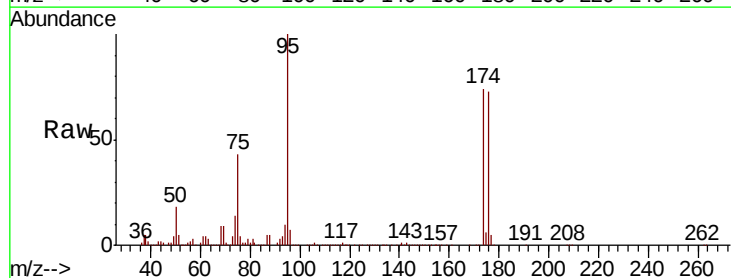
Manual Integrations
 APPROVED

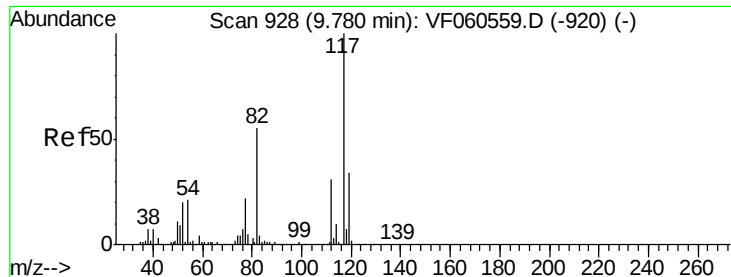
MMDadoda
 11/5/2018 3:55:38 PM



#62
 4-Bromofluorobenzene
 Concen: 117.999 ug/l
 RT: 11.42 min Scan# 1094
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	149.0
176	73.4	0.0	145.6





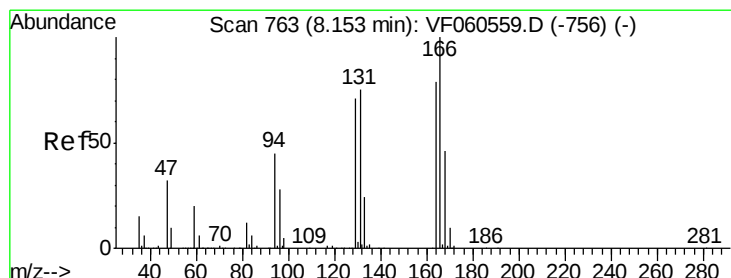
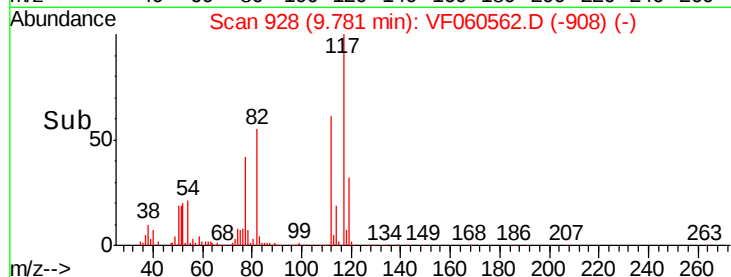
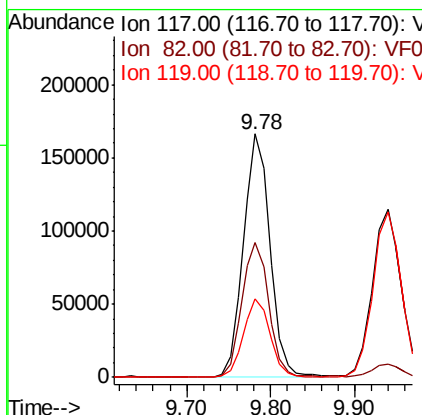
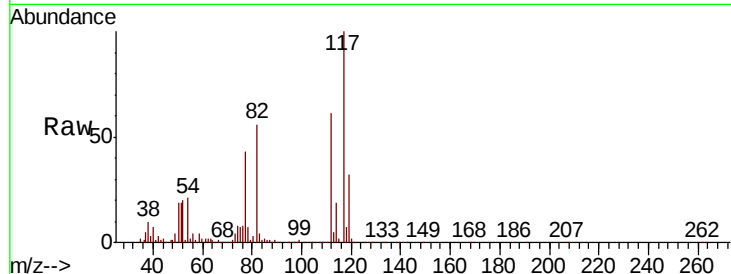
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC150

Tot Ion	Ratio	Resp	Lower	Upper
117	100	368887		
82	55.6	43.9	65.9	
119	32.4	27.4	41.0	

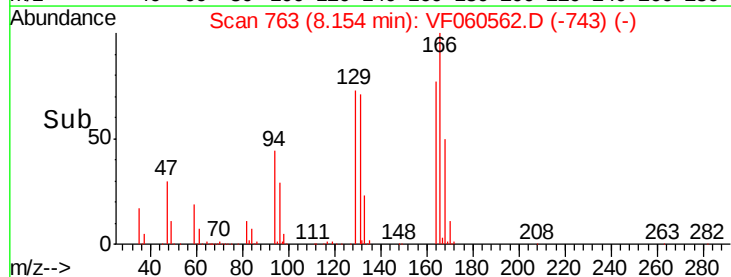
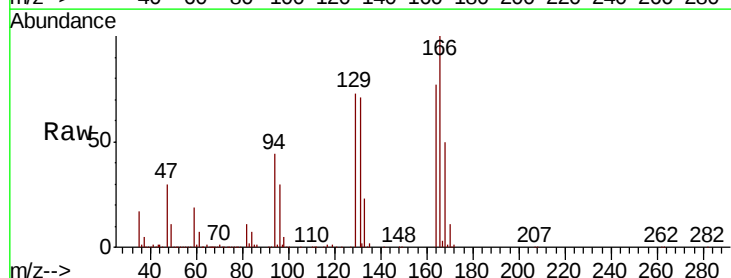
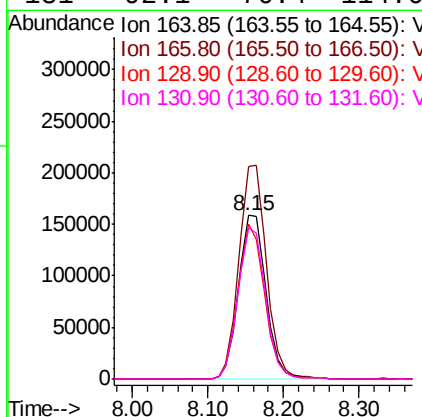
Manual Integrations
APPROVED

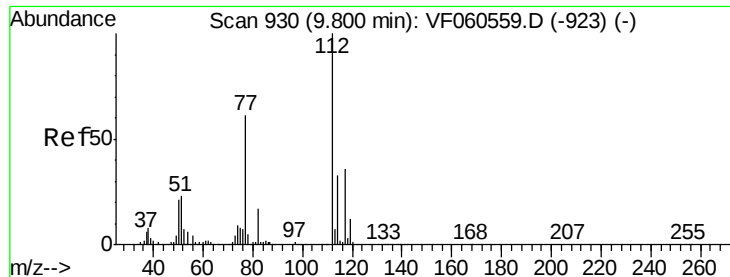
MMDadoda
11/5/2018 3:55:38 PM



#64
Tetrachloroethene
Concen: 130.353 ug/l
RT: 8.15 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	400145		
166	129.7	101.5	152.3	
129	95.2	72.5	108.7	
131	92.1	76.4	114.6	





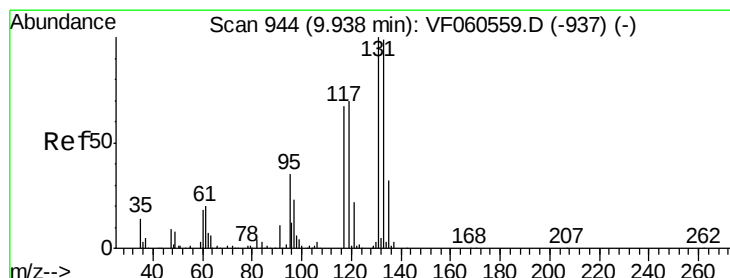
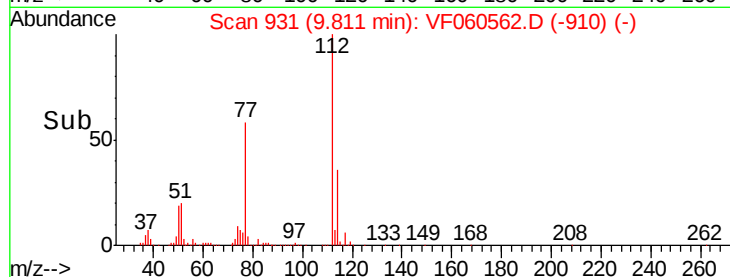
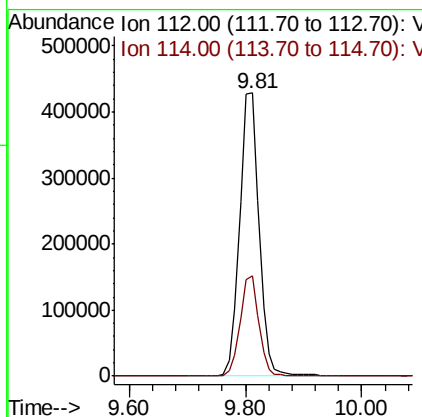
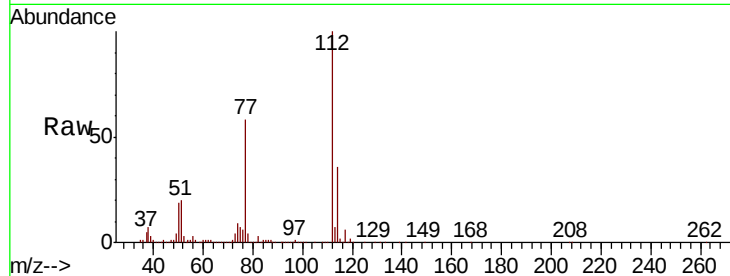
#65
Chlorobenzene
Concen: 135.905 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 1002524
Ion Ratio Lower Upper
112 100
114 35.5 26.6 40.0

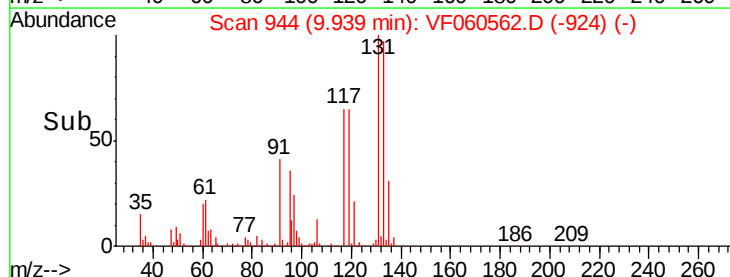
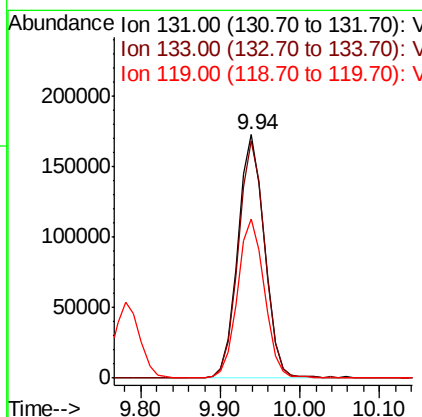
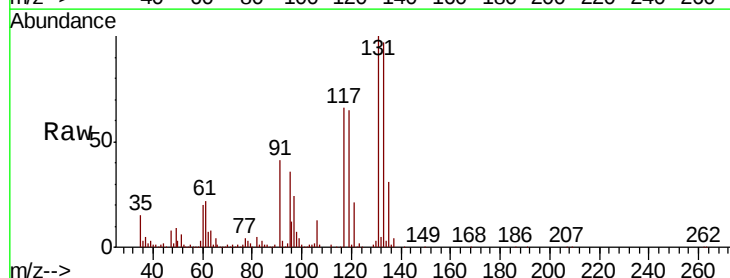
Manual Integrations
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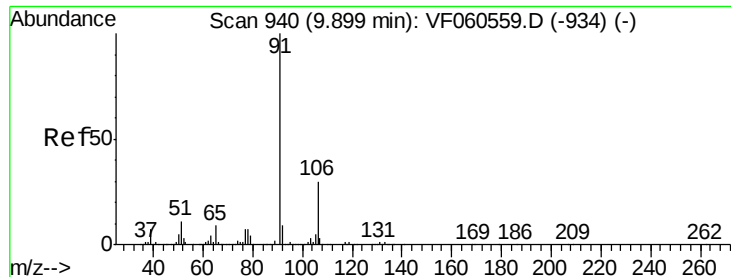
MMDadoda
11/5/2018 3:55:38 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 119.983 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion:131 Resp: 402181
Ion Ratio Lower Upper
131 100
133 97.2 49.5 148.7
119 65.5 35.2 105.6





#67

Ethyl Benzene

Concen: 117.534 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1650393

Ion Ratio Lower Upper

91 100

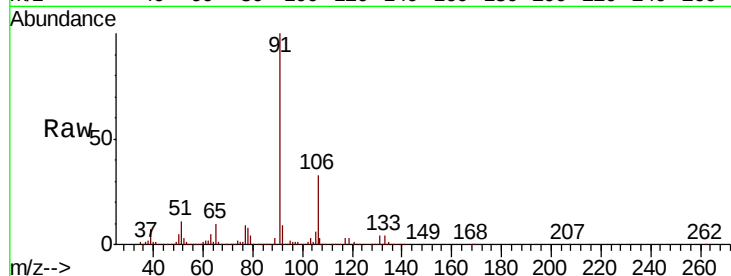
106 33.0 24.2 36.4

Manual Integrations

APPROVED

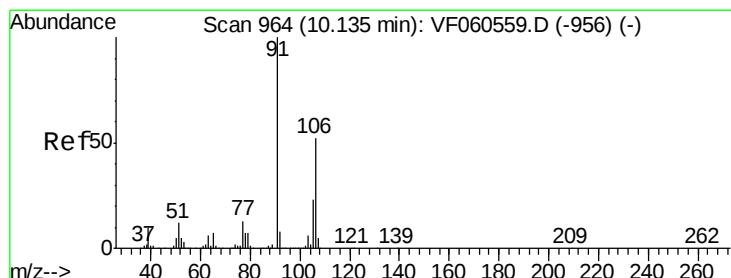
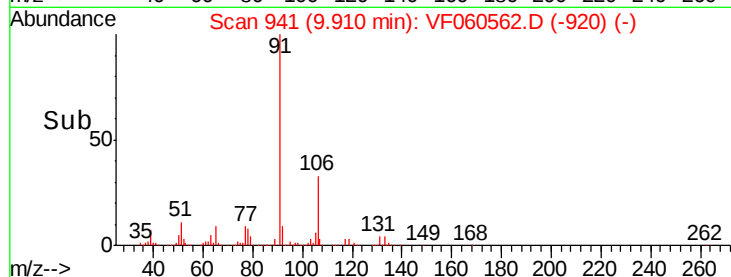
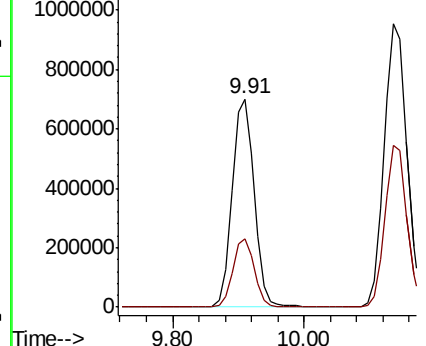
MMDadoda

11/5/2018 3:55:38 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 259.585 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF060562.D

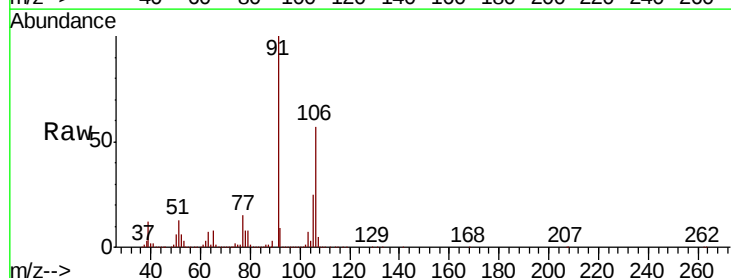
Acq: 2 Nov 2018 13:57

Tgt Ion:106 Resp: 1259293

Ion Ratio Lower Upper

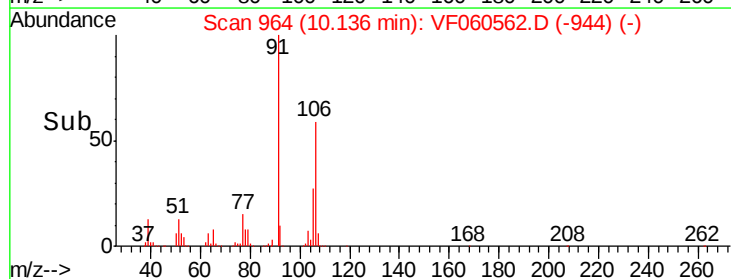
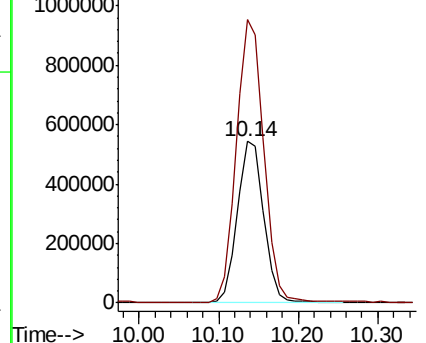
106 100

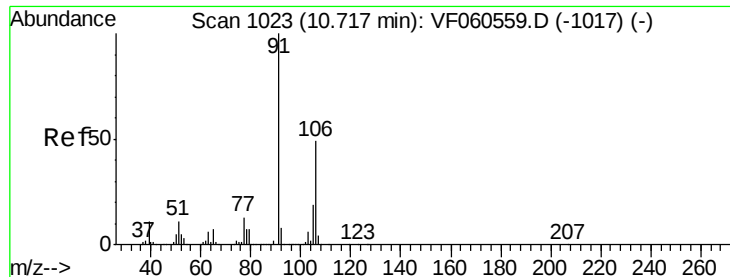
91 175.6 153.9 230.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





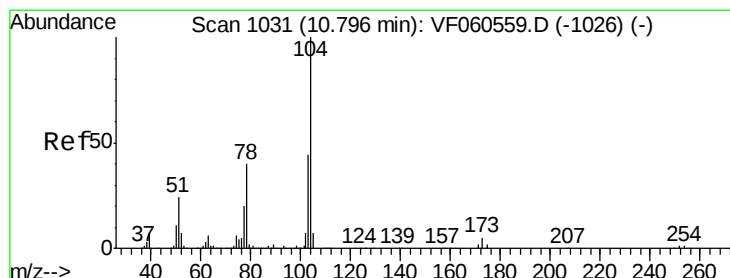
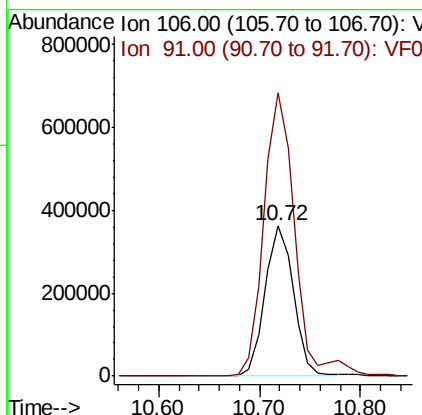
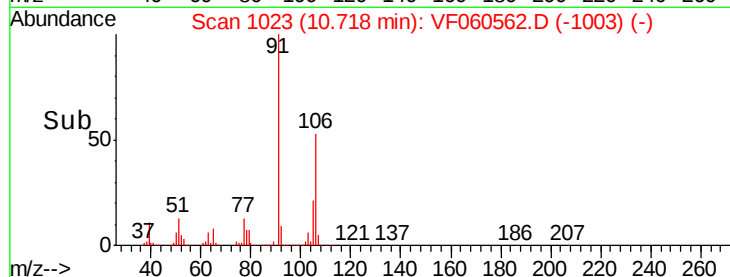
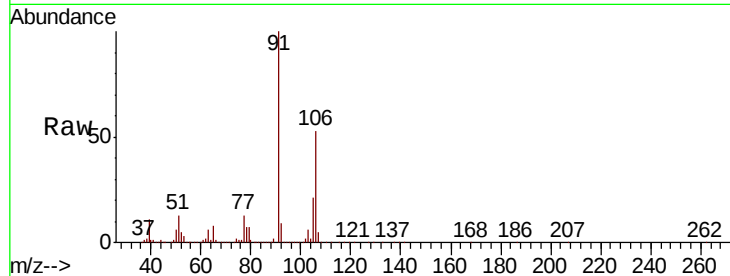
#69
o-Xylene
Concen: 130.307 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		708956		
91	188.0	101.8	305.3		

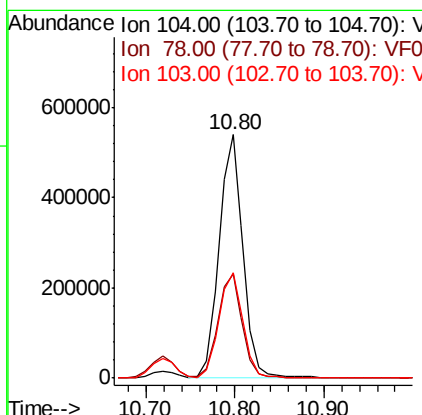
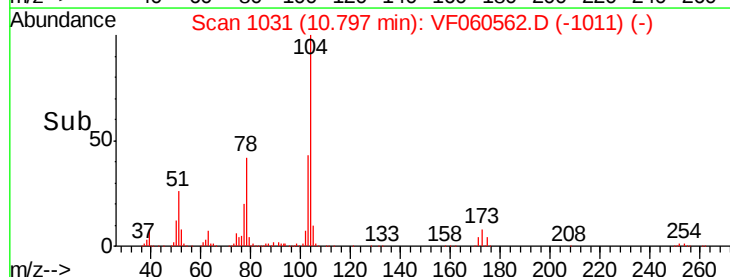
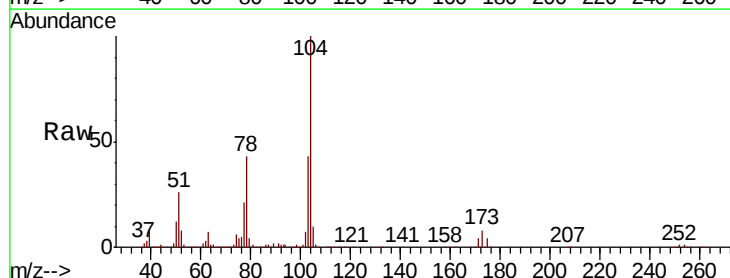
Manual Integrations
APPROVED

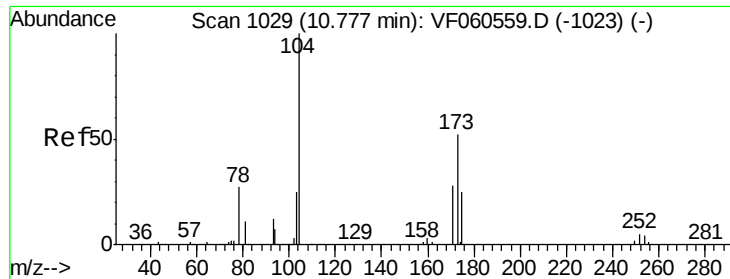
MMDadoda
11/5/2018 3:55:38 PM



#70
Styrene
Concen: 130.503 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	42.5	32.6	49.0	
103	43.5	35.2	52.8	





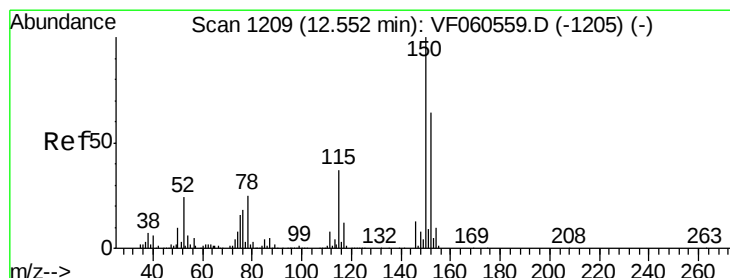
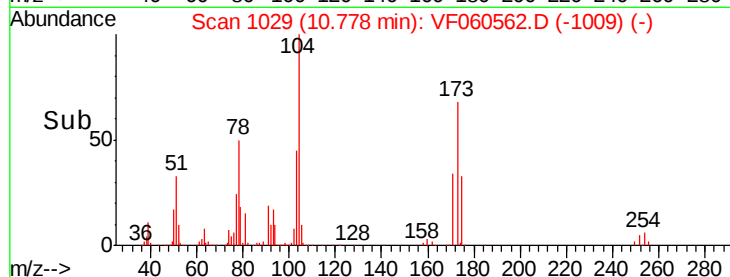
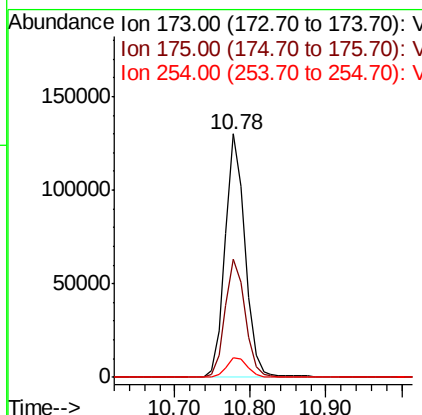
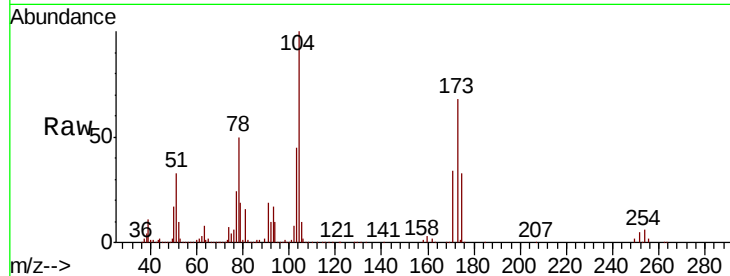
#71
Bromoform
Concen: 139.033 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.9
254	8.3	6.7	10.1

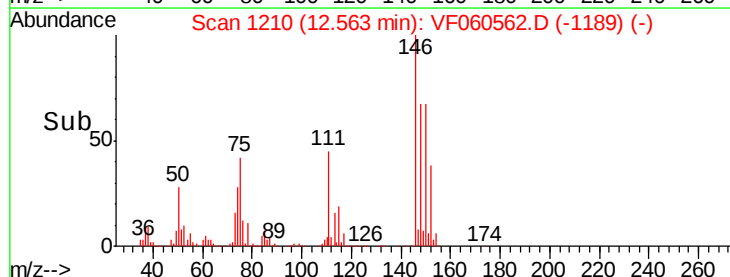
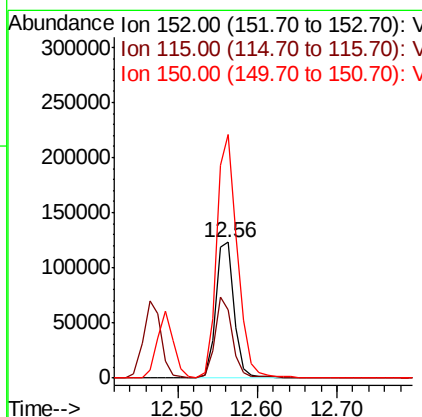
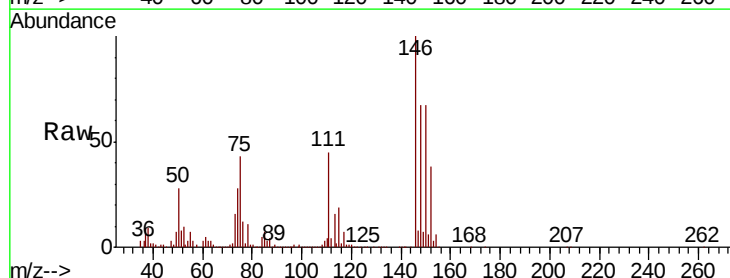
Manual Integrations
APPROVED

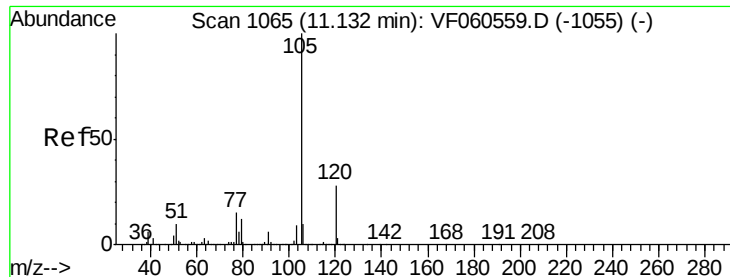
MMDadoda
11/5/2018 3:55:38 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	50.1	29.6	88.8
150	179.5	0.0	315.6





#73

Isopropylbenzene

Concen: 114.727 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 1799414

Ion Ratio Lower Upper

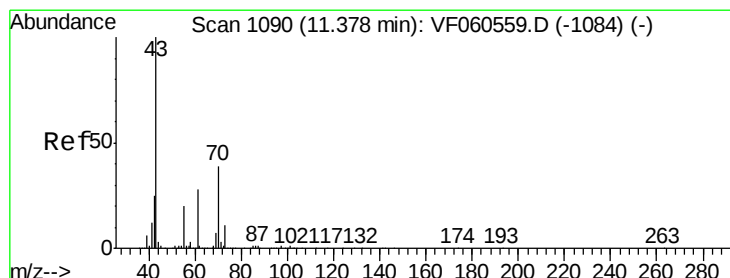
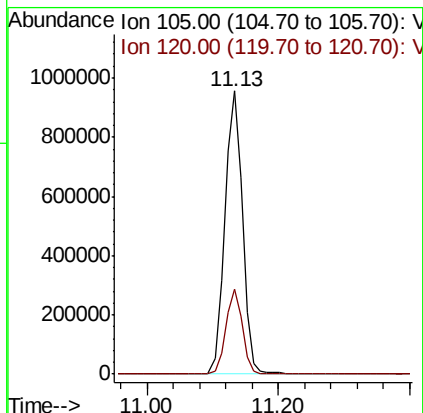
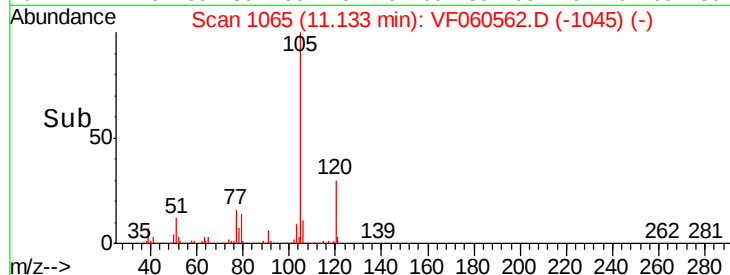
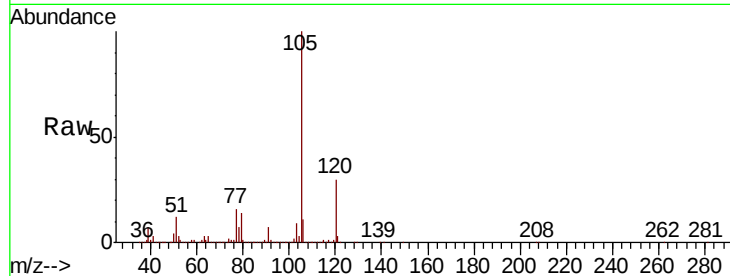
105 100

120 30.2 13.9 41.6

Manual Integrations
APPROVED

MMDadoda

11/5/2018 3:55:38 PM



#74

N-ethyl acetate

Concen: 172.943 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion: 43 Resp: 568229

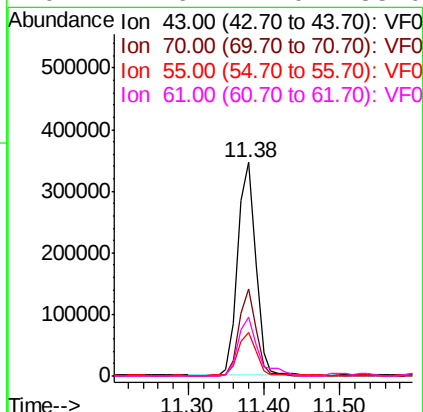
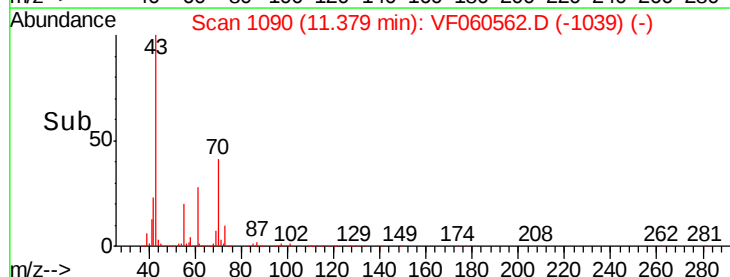
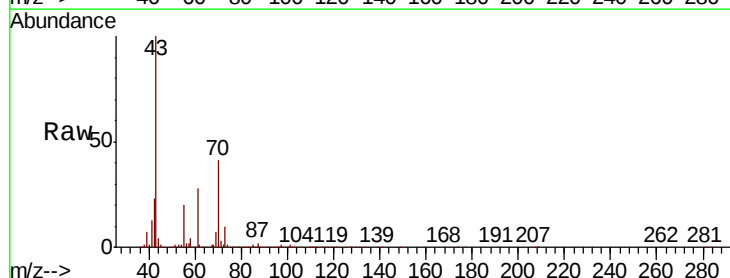
Ion Ratio Lower Upper

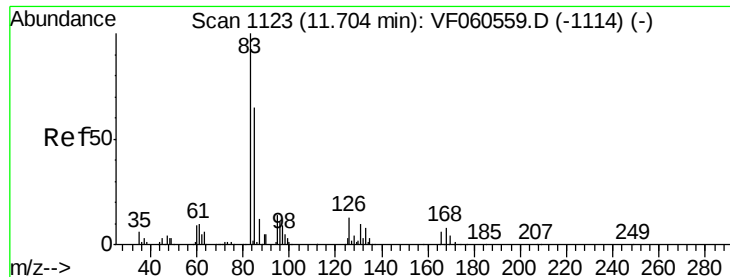
43 100

70 40.8 30.9 46.3

55 20.5 16.6 24.8

61 27.6 22.0 33.0





#75

1,1,2,2-Tetrachloroethane

Concen: 140.483 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

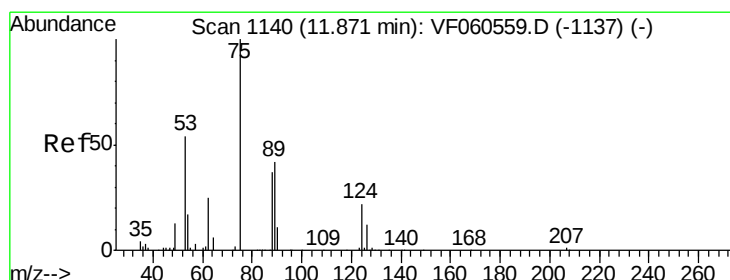
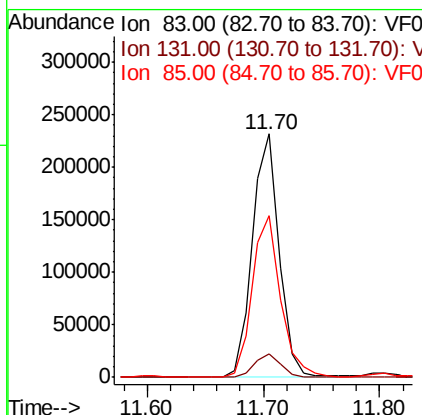
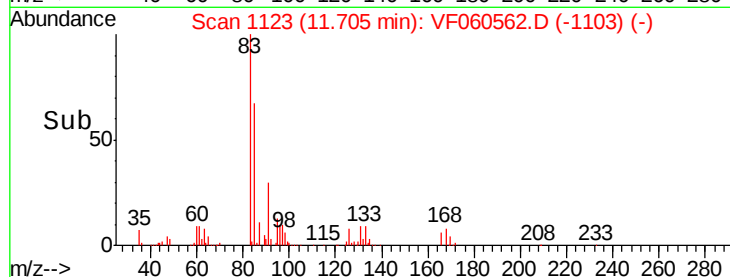
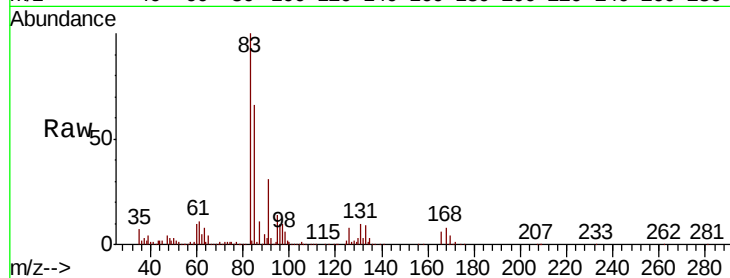
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	368745
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.0	14.9
85	66.4	32.9	98.7

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#76

1,2,3-Trichloropropane

Concen: 99.313 ug/l

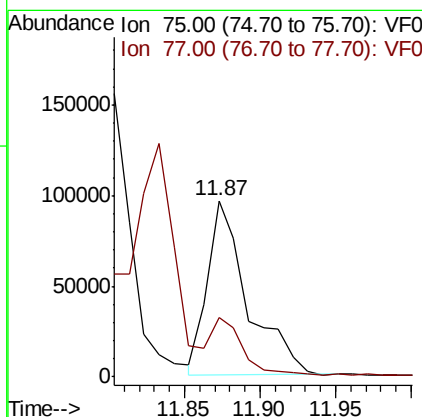
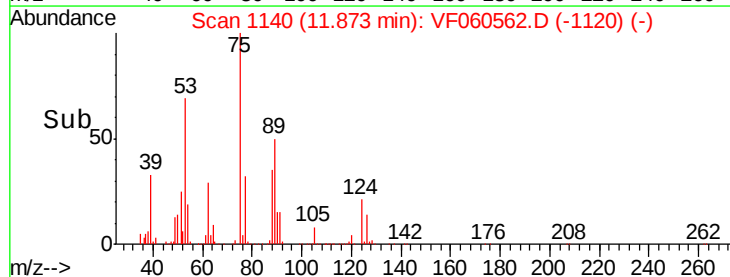
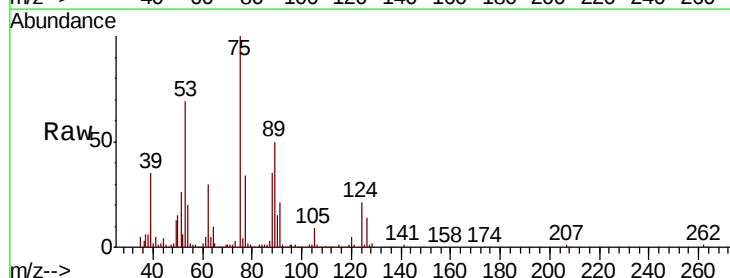
RT: 11.87 min Scan# 1140

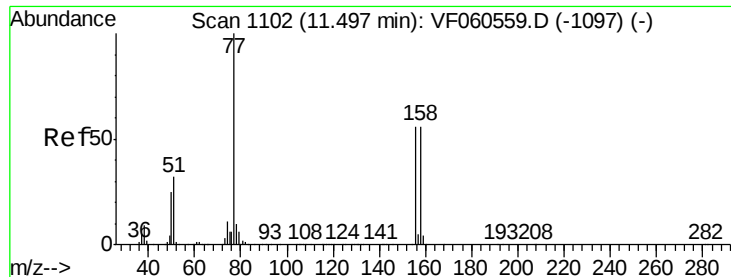
Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	75	Resp:	178965
Ion Ratio	Lower	Upper	
75	100		
77	33.6	17.4	52.3





#77

Bromobenzene

Concen: 132.632 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

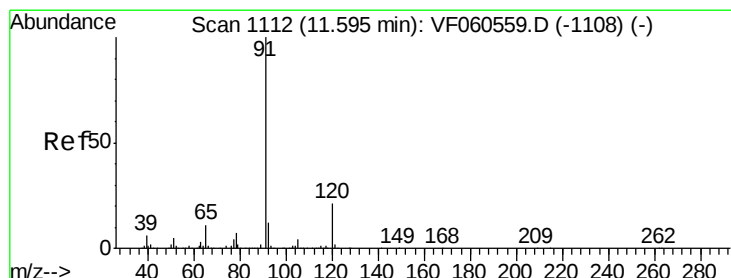
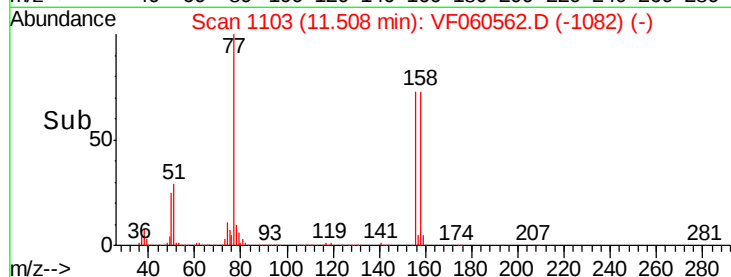
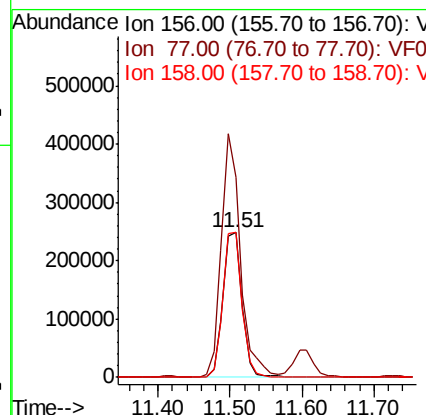
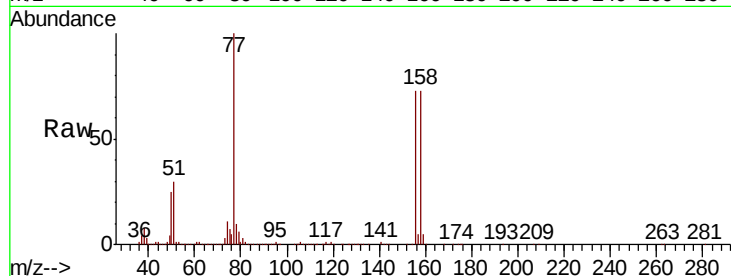
ClientSampleId :

VSTDIC150

Tot Ion:	156	Resp:	455243
Ion	Ratio	Lower	Upper
156	100		
77	137.7	89.3	268.1
158	100.5	50.0	150.1

Manual Integrations
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#78

n-propylbenzene

Concen: 110.996 ug/l

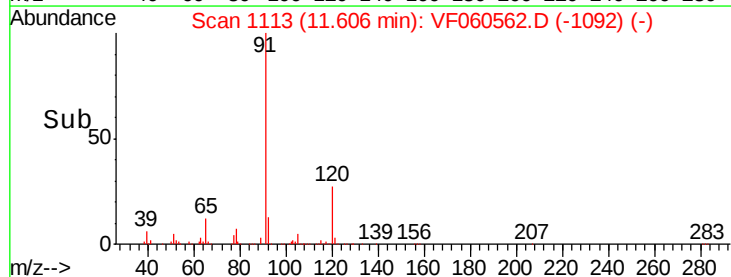
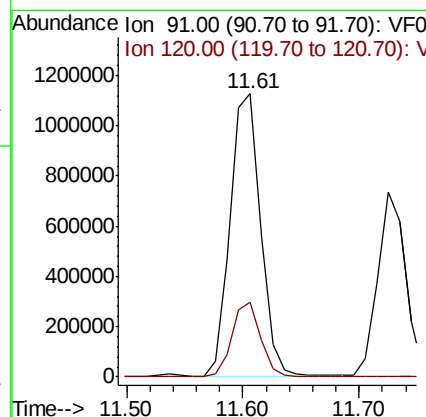
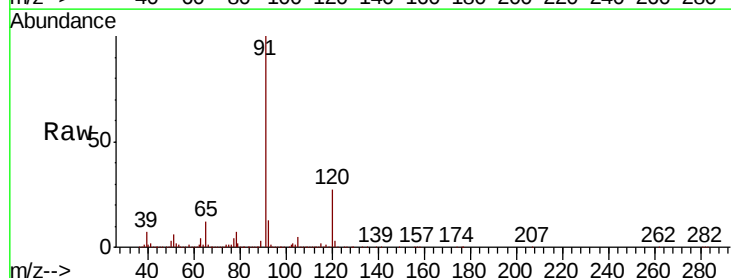
RT: 11.61 min Scan# 1113

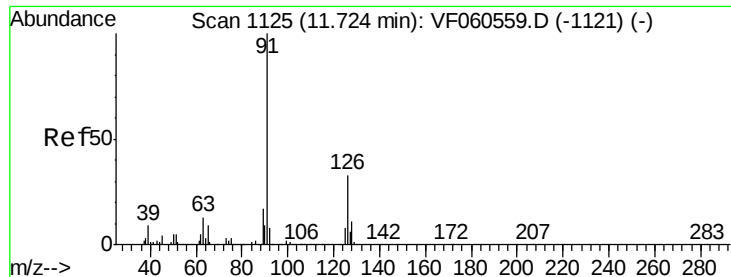
Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	91	Resp:	2051488
Ion	Ratio	Lower	Upper
91	100		
120	26.6	10.5	31.6





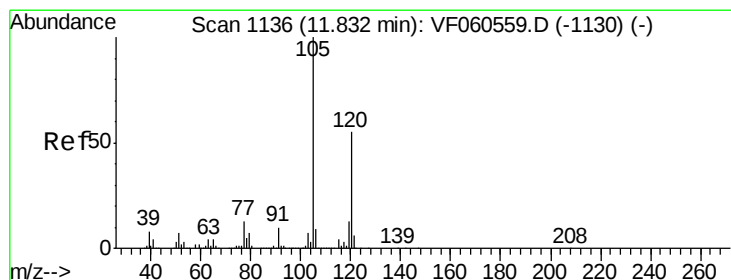
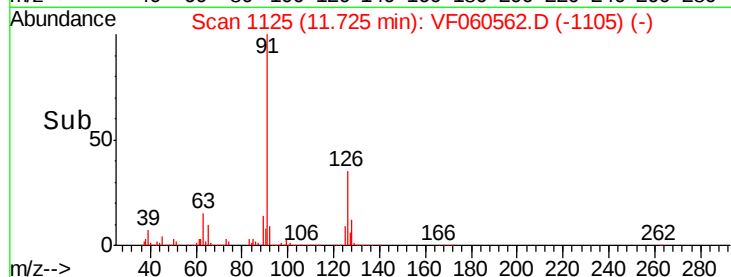
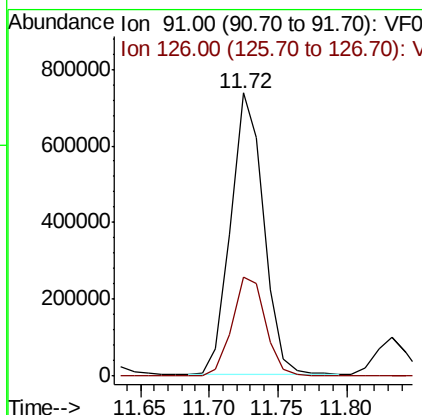
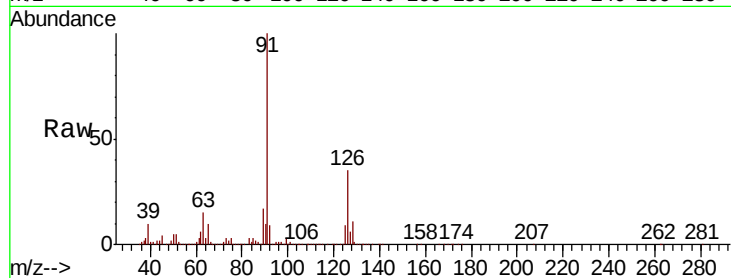
#79
 2-Chlorotoluene
 Concen: 110.634 ug/l
 RT: 11.72 min Scan# 1125
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion: 91 Resp: 1217523
 Ion Ratio Lower Upper
 91 100
 126 35.2 16.5 49.5

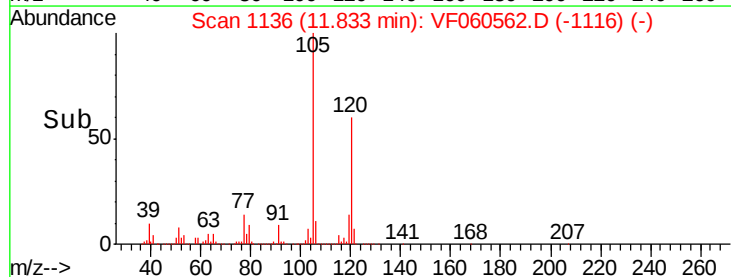
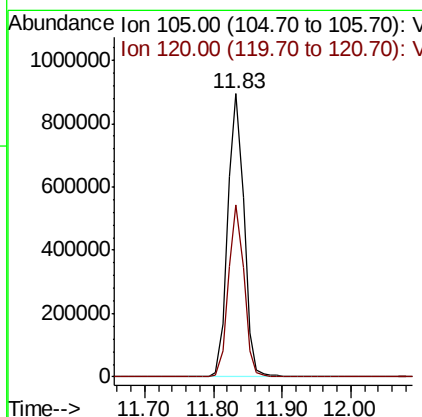
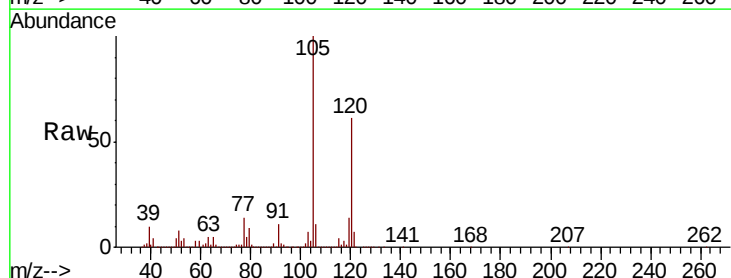
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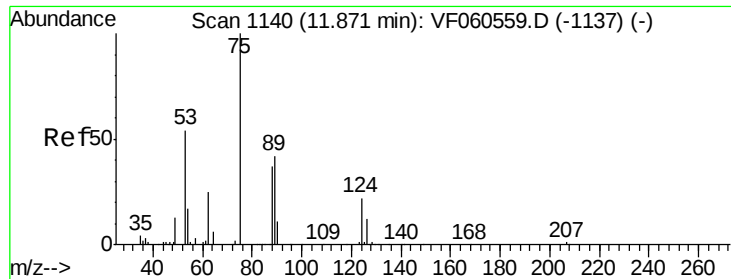
MMDadoda
 11/5/2018 3:55:38 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 109.077 ug/l
 RT: 11.83 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion: 105 Resp: 1459385
 Ion Ratio Lower Upper
 105 100
 120 60.6 27.6 82.8





#81

trans-1,4-Dichloro-2-butene

Concen: 164.136 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion: 75 Resp: 144410

Ion Ratio Lower Upper

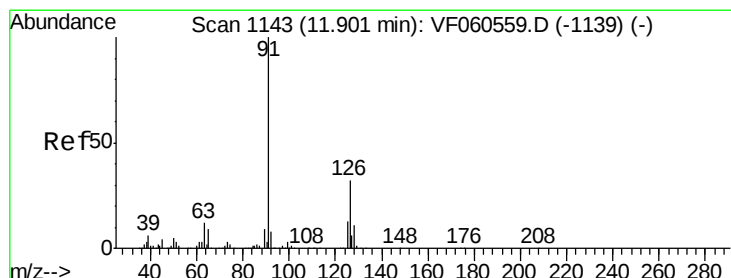
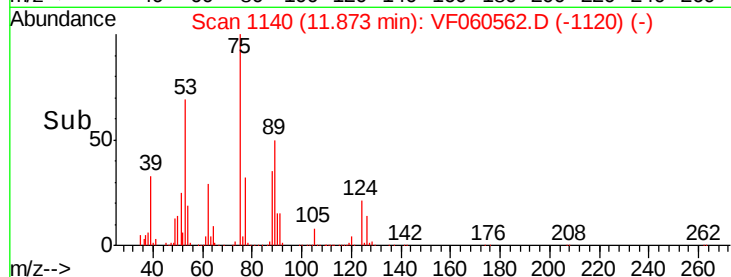
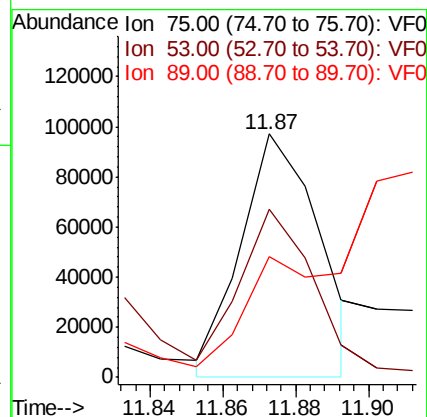
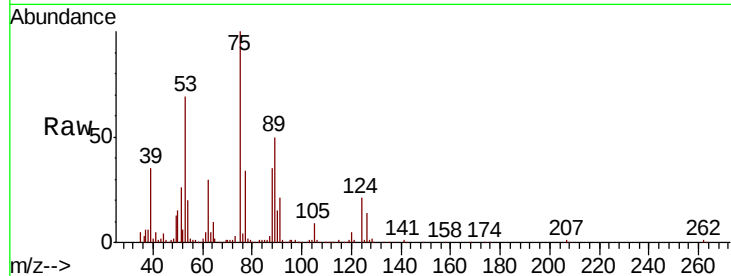
75 100

53 68.8 51.6 77.4

89 49.8 36.7 55.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 116.571 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF060562.D

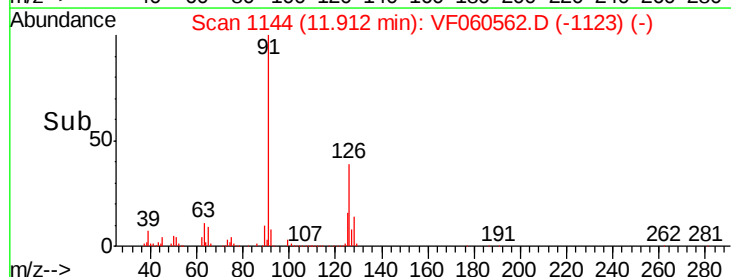
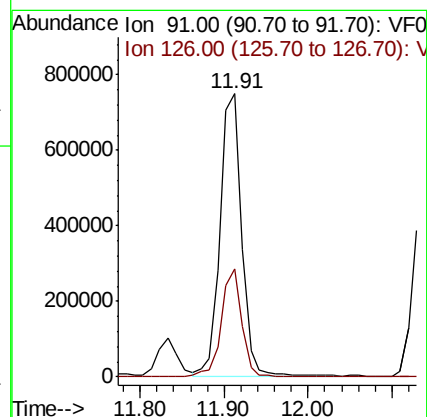
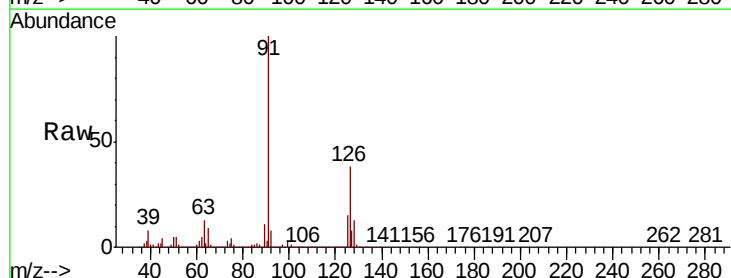
Acq: 2 Nov 2018 13:57

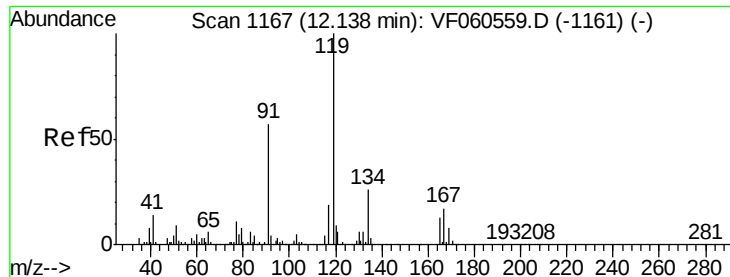
Tgt Ion: 91 Resp: 1324525

Ion Ratio Lower Upper

91 100

126 38.0 15.9 47.7





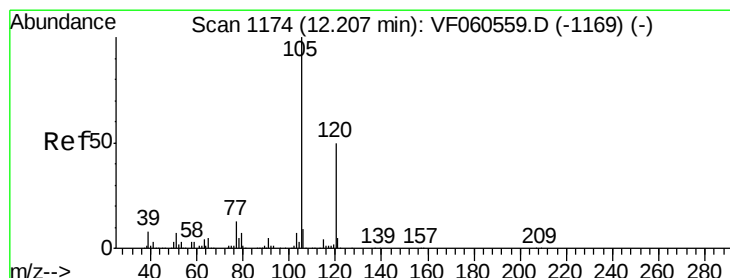
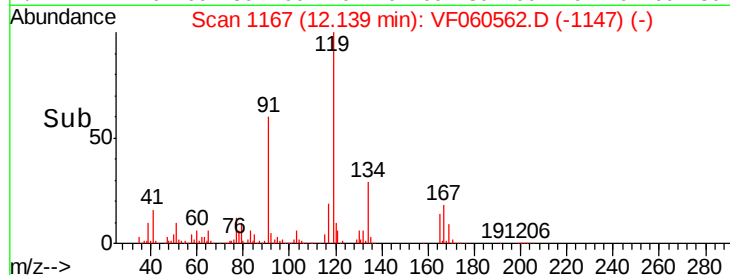
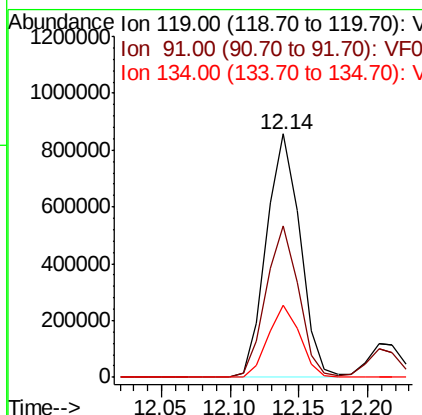
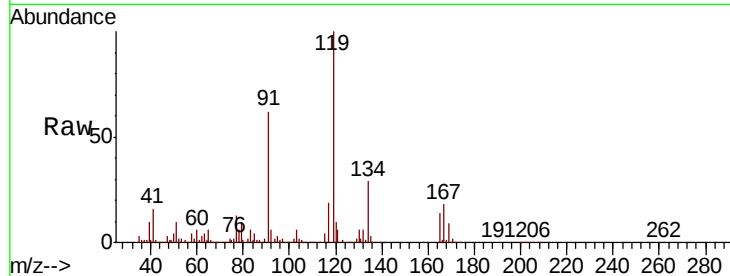
#83
tert-Butylbenzene
Concen: 111.086 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.4	28.8	86.4
134	29.5	13.2	39.6

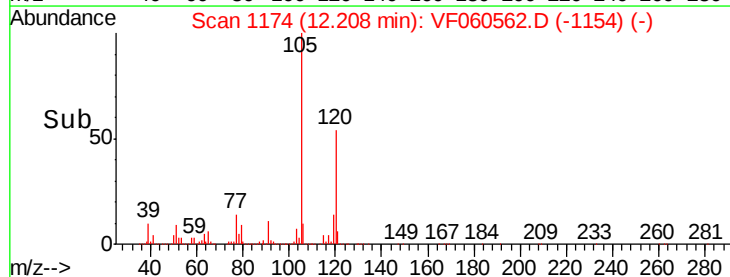
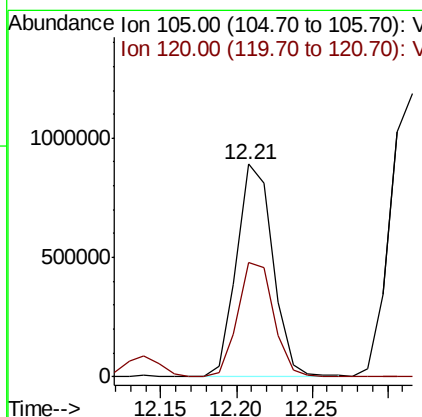
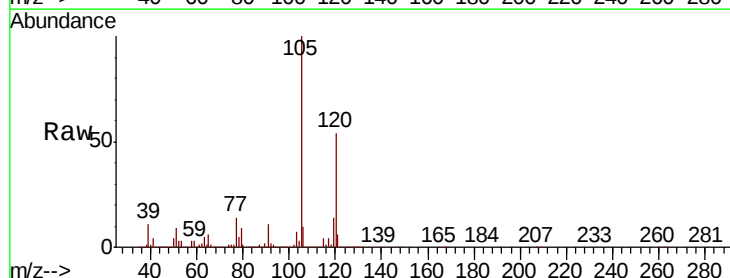
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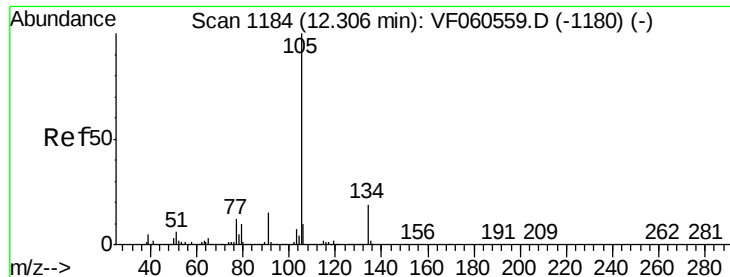
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 109.613 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.1	25.6	76.8





#85

sec-Butylbenzene

Concen: 109.735 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2022173

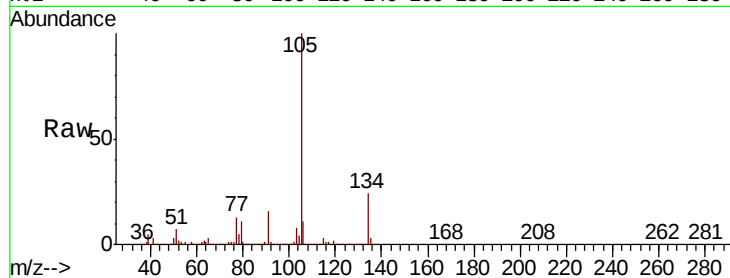
Ion Ratio Lower Upper

105 100

134 24.1 9.7 29.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

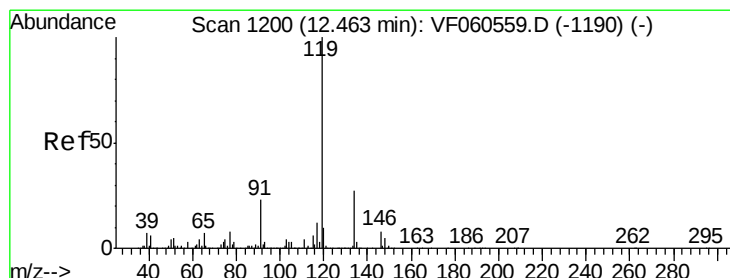
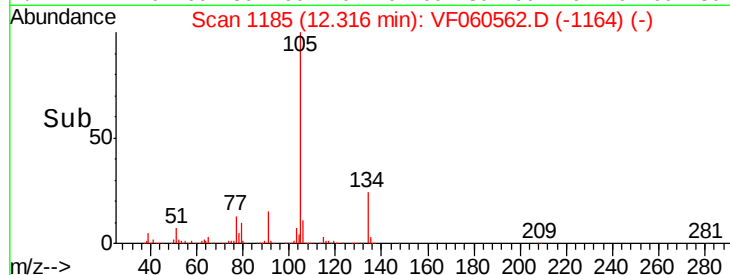
12.32

1000000

500000

0

Time--> 12.20 12.30 12.40



#86

p-Isopropyltoluene

Concen: 106.822 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

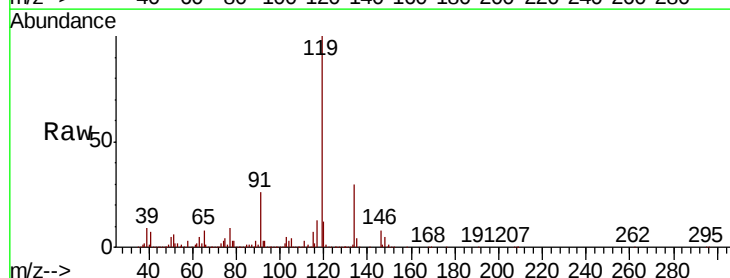
Tgt Ion:119 Resp: 1614251

Ion Ratio Lower Upper

119 100

134 29.6 13.6 40.7

91 25.6 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

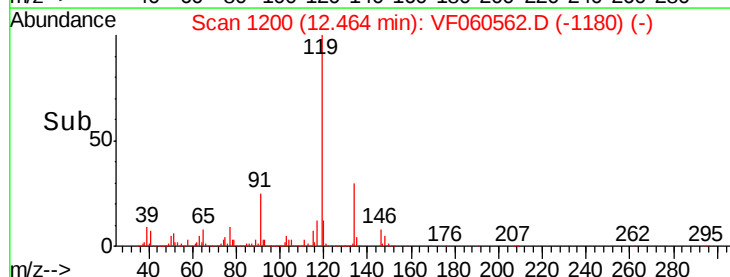
12.46

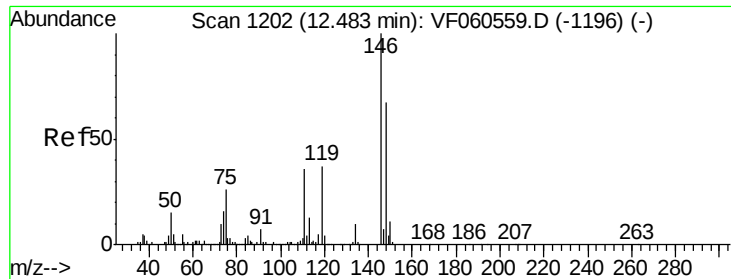
1000000

500000

0

Time--> 12.40 12.50 12.60





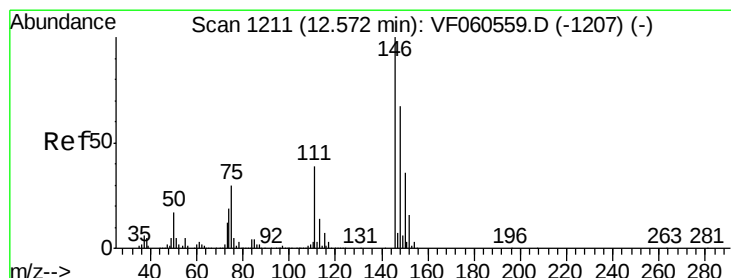
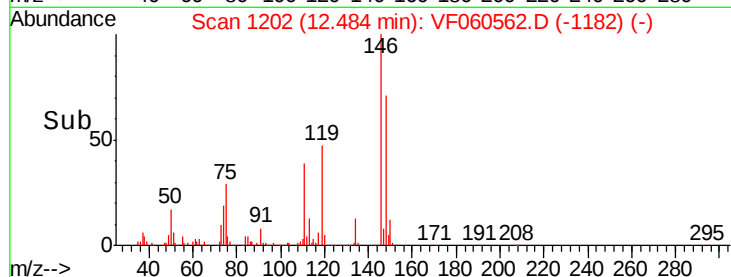
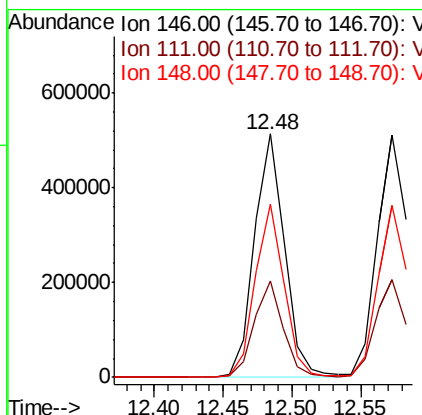
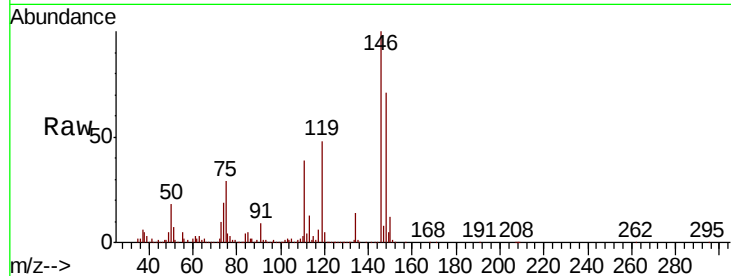
#87
 1,3-Dichlorobenzene
 Concen: 115.083 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.3	54.8
148	71.1	33.5	100.4

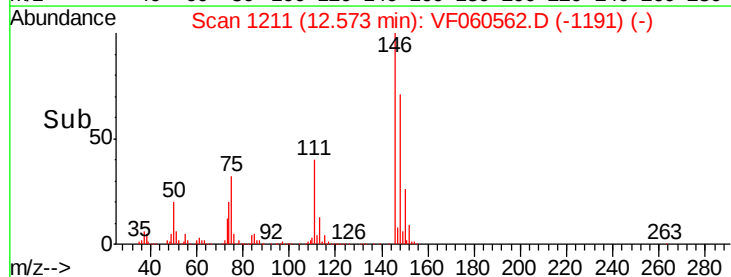
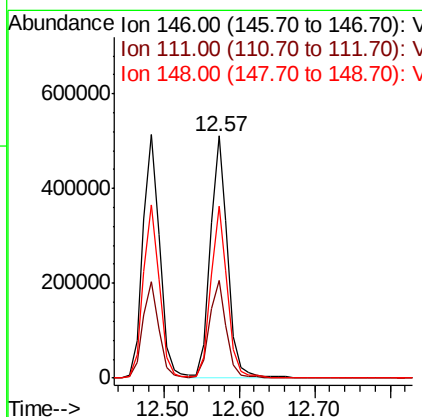
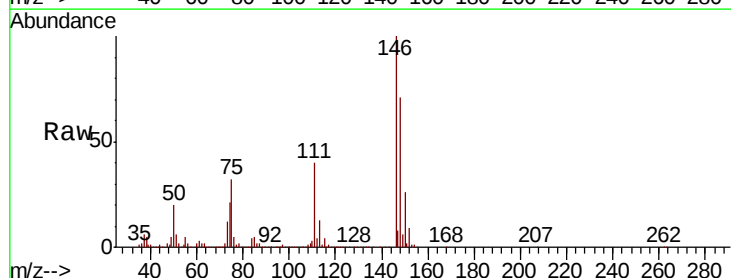
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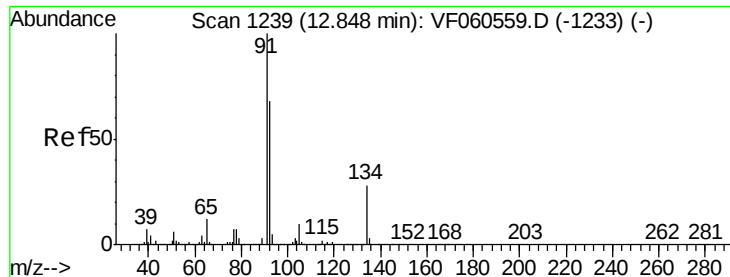
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 11/5/2018 3:55:38 PM



#88
 1,4-Dichlorobenzene
 Concen: 126.232 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.7	59.1
148	71.2	33.7	101.1





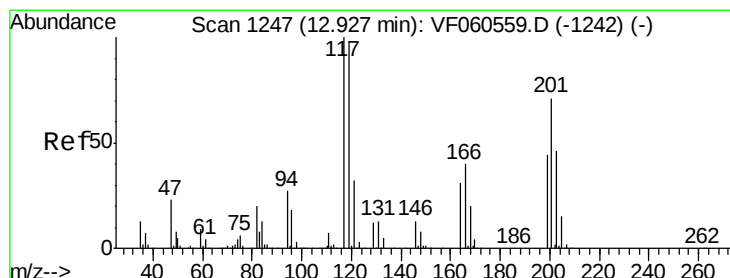
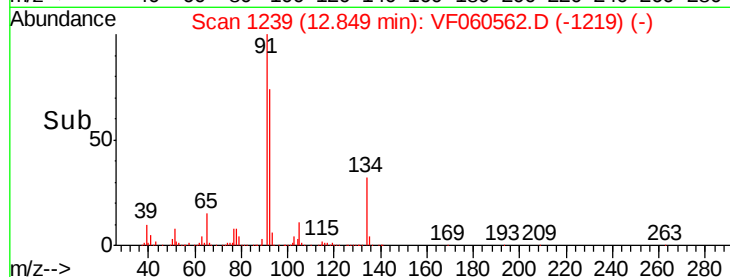
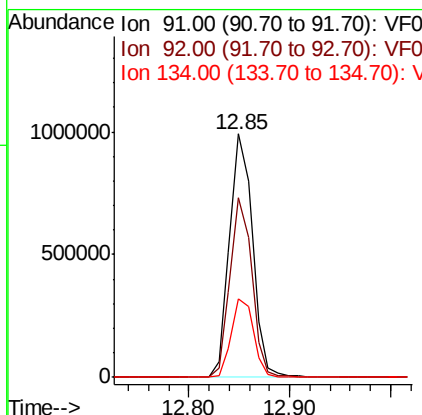
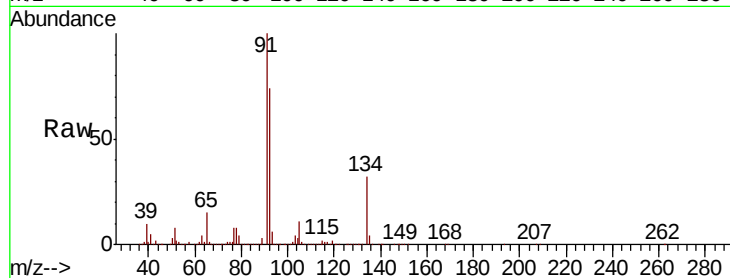
#89
n-Butylbenzene
Concen: 99.283 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
91	100		
92	73.6	34.1	102.2
134	32.3	13.9	41.6

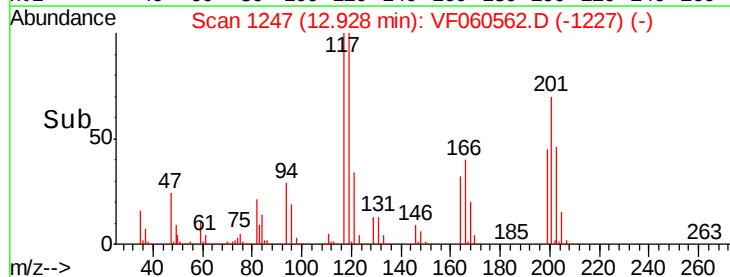
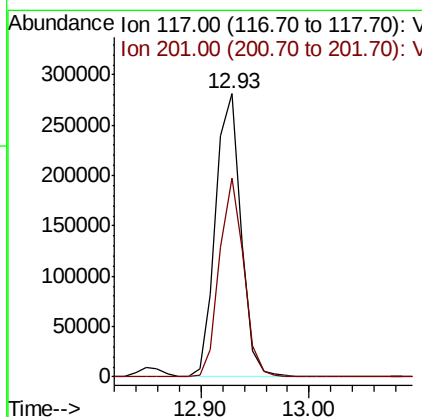
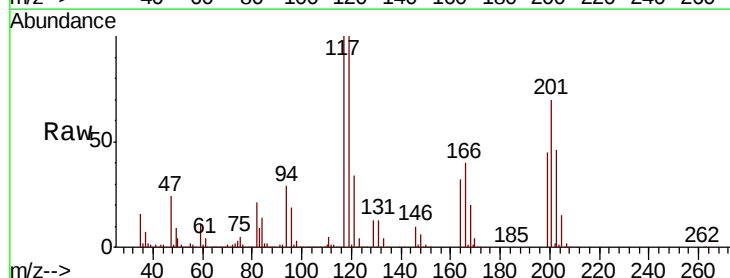
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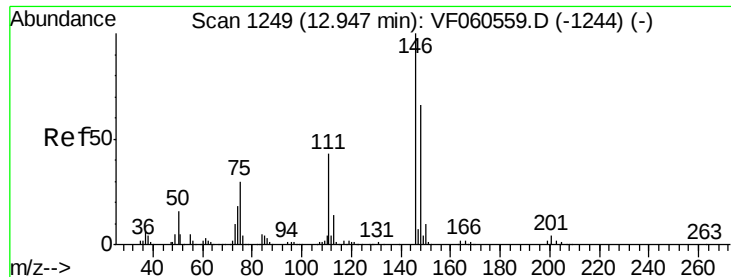
MMDadoda
11/5/2018 3:55:38 PM



#90
Hexachloroethane
Concen: 117.875 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.1	35.2	105.6





#91

1,2-Dichlorobenzene

Concen: 119.168 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Instrument :

MSVOA_F

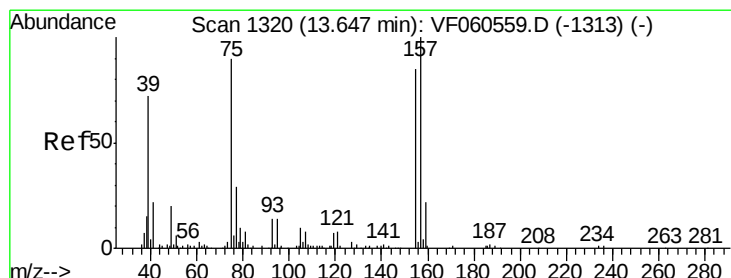
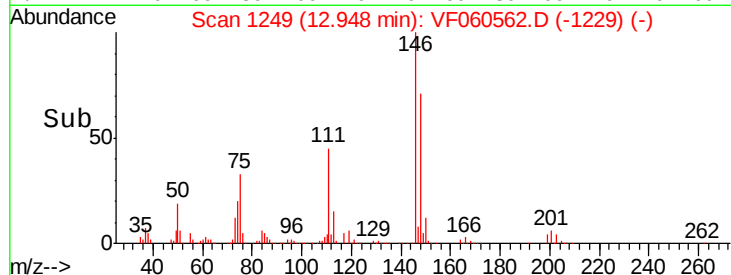
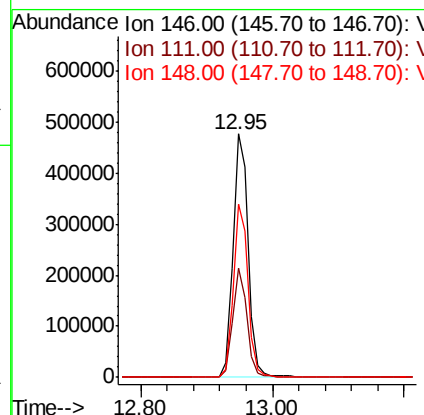
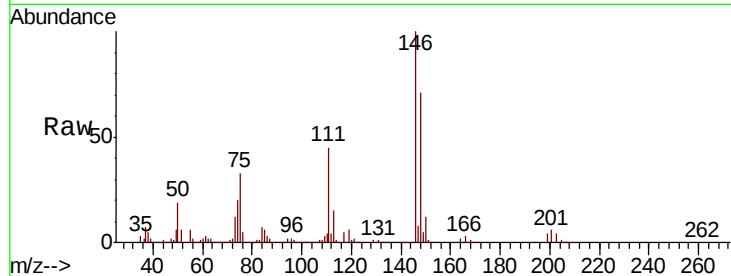
ClientSampleId :

VSTDIC150

Tot Ion:	146	Resp:	766788
Ion Ratio	Lower	Upper	
146	100		
111	45.0	21.3	64.0
148	71.1	32.9	98.7

Manual Integrations
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11/5/2018 3:55:38 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 133.302 ug/l

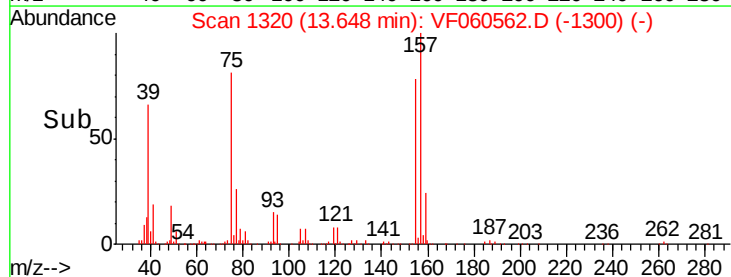
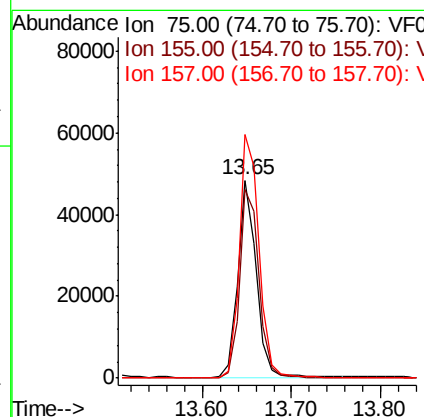
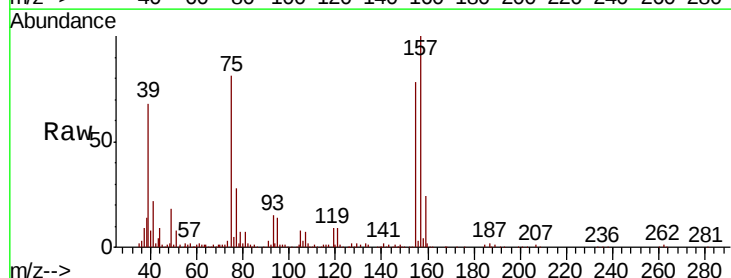
RT: 13.65 min Scan# 1320

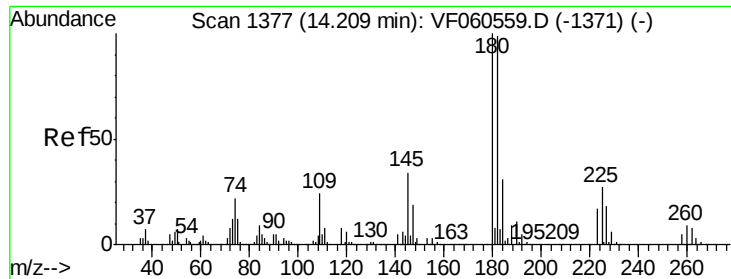
Delta R.T. 0.00 min

Lab File: VF060562.D

Acq: 2 Nov 2018 13:57

Tgt Ion:	75	Resp:	70843
Ion Ratio	Lower	Upper	
75	100		
155	95.4	47.3	141.8
157	123.0	55.3	165.9





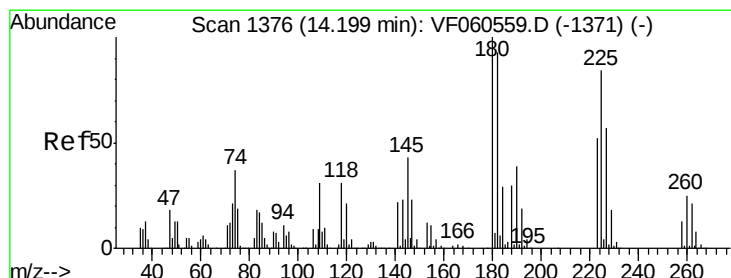
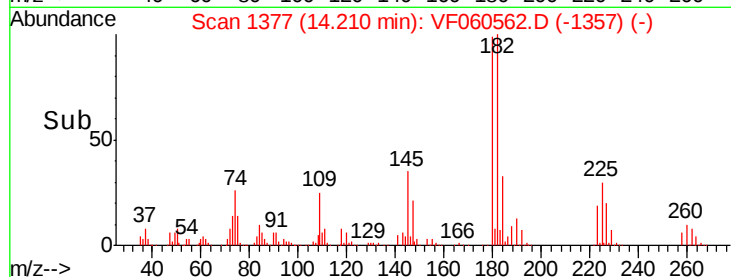
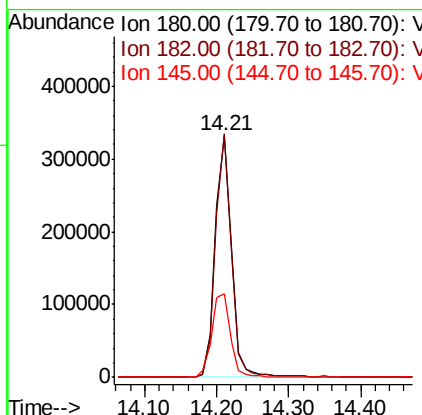
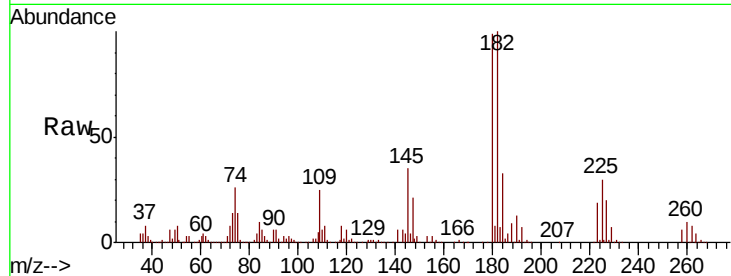
#93
 1,2,4-Trichlorobenzene
 Concen: 108.718 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
180	100	517652		
182	100.8	49.7	149.1	
145	34.9	16.9	50.7	

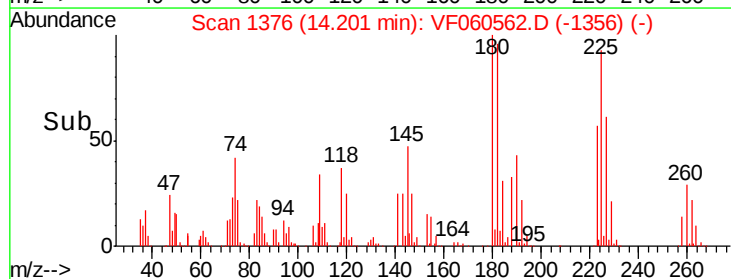
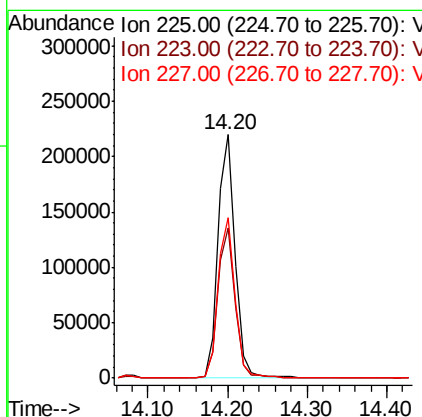
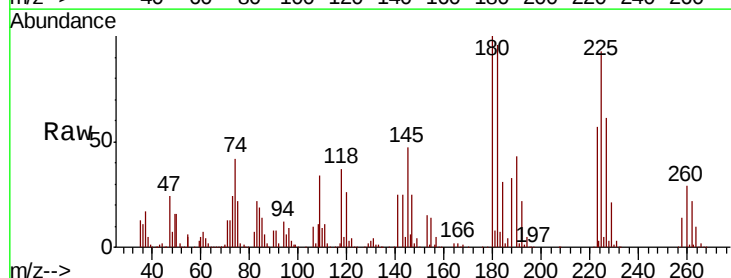
Manual Integrations
 APPROVED

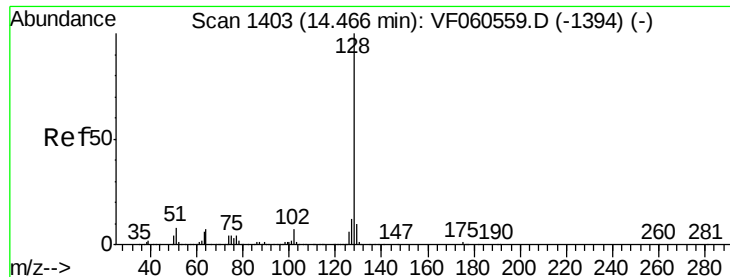
MMDadoda
 11/5/2018 3:55:38 PM



#94
 Hexachlorobutadiene
 Concen: 100.864 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF060562.D
 Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	336120		
223	61.4	30.9	92.5	
227	66.0	33.9	101.6	





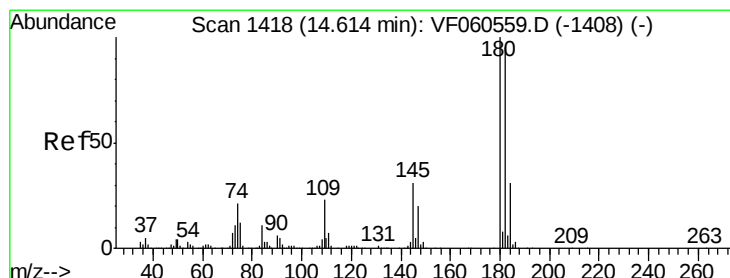
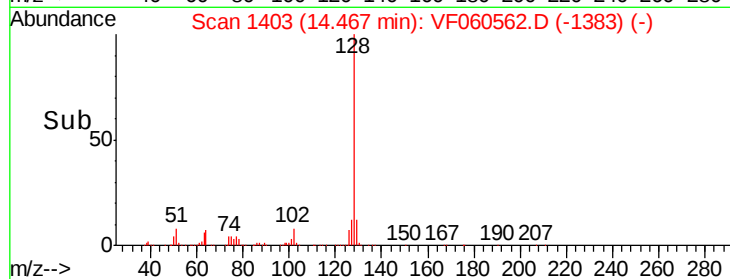
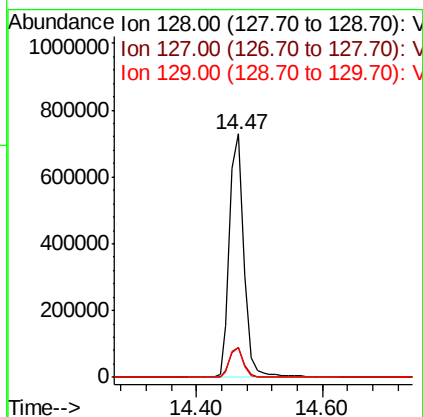
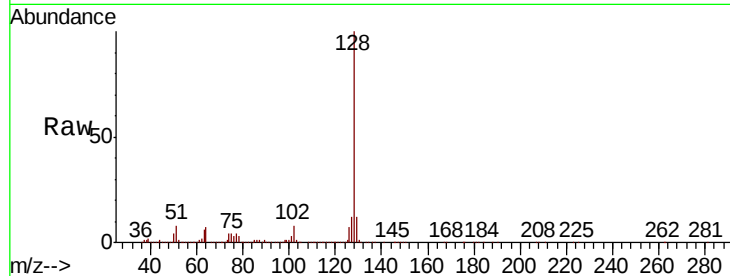
#95
Naphthalene
Concen: 136.812 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.4	14.0
129	12.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 3:55:38 PM



#96
1,2,3-Trichlorobenzene
Concen: 114.152 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF060562.D
Acq: 2 Nov 2018 13:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.7	47.3	142.0
145	33.1	15.6	46.8

