

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111218\
 Data File : VF060689.D
 Acq On : 12 Nov 2018 14:14
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/13/2018 2:11:04 PM

Quant Time: Nov 13 04:27:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	217794	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	372069	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	333639	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	194830	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	124534	56.59	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.18%	
35) Dibromofluoromethane	4.09	113	145292	50.54	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.08%	
50) Toluene-d8	7.54	98	418820	49.18	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.40	95	189987	51.01	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	133271	59.308	ug/l	98
3) Chloromethane	1.10	50	100559	52.756	ug/l	96
4) Vinyl Chloride	1.14	62	93215	53.070	ug/l	95
5) Bromomethane	1.32	94	57770	58.595	ug/l	96
6) Chloroethane	1.37	64	39925	64.175	ug/l	91
7) Trichlorofluoromethane	1.49	101	204404	62.177	ug/l	93
8) Diethyl Ether	1.62	74	26033	42.727	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.81	101	97774	52.047	ug/l	89
10) Methyl Iodide	1.88	142	168443	54.488	ug/l	97
11) Tert butyl alcohol	2.55	59	24992	215.940	ug/l #	71
12) 1,1-Dichloroethene	1.77	96	79596	50.307	ug/l	85
13) Acrolein	1.99	56	13394	175.539	ug/l	95
14) Allyl chloride	2.09	41	155000	59.996	ug/l	95
15) Acrylonitrile	2.93	53	55275	210.767	ug/l	95
16) Acetone	2.23	43	133679	257.804	ug/l	93
17) Carbon Disulfide	1.81	76	215437m	48.338	ug/l	
18) Methyl Acetate	2.33	43	45008	55.823	ug/l	96
19) Methyl tert-butyl Ether	2.41	73	197690	53.449	ug/l	98
20) Methylene Chloride	2.17	84	85157m	56.050	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	92491	55.720	ug/l	98
22) Diisopropyl ether	2.78	45	278279	50.839	ug/l	94
23) Vinyl Acetate	3.17	43	630298	191.652	ug/l	96
24) 1,1-Dichloroethane	2.86	63	182560	57.629	ug/l	99
25) 2-Butanone	4.31	43	203783	202.914	ug/l	98
26) 2,2-Dichloropropane	3.58	77	136887	57.750	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	149554	47.196	ug/l	95
28) Bromochloromethane	3.70	49	103511	52.068	ug/l	94
29) Tetrahydrofuran	4.05	42	75273	193.707	ug/l	98
30) Chloroform	3.84	83	266260	53.127	ug/l	99
31) Cyclohexane	3.69	56	195422	44.703	ug/l	99
32) 1,1,1-Trichloroethane	4.08	97	214969	61.413	ug/l	96
36) 1,1-Dichloropropene	4.26	75	198603	48.478	ug/l	99
37) Ethyl Acetate	4.09	43	69191	35.183	ug/l #	62
38) Carbon Tetrachloride	3.97	117	187296m	53.503	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	239741	47.954	ug/l	99
40) Benzene	4.61	78	454047	45.659	ug/l	98
41) Methacrylonitrile	4.72	41	42601	38.252	ug/l #	87
42) 1,2-Dichloroethane	4.92	62	150009	52.559	ug/l	92
43) Isopropyl Acetate	6.94	43	93717	37.674	ug/l #	96
44) Trichloroethene	5.49	130	140170	46.901	ug/l	99
45) 1,2-Dichloropropane	6.21	63	117262	46.107	ug/l	96
46) Dibromomethane	6.07	93	79423	49.225	ug/l	97
47) Bromodichloromethane	6.37	83	203203	52.214	ug/l	94
48) Methyl methacrylate	6.70	41	67206	42.987	ug/l	93
49) 1,4-Dioxane	6.69	88	12119	741.011	ug/l #	77
51) 4-Methyl-2-Pentanone	8.24	43	335736	200.703	ug/l	97
52) Toluene	7.61	92	297050	45.857	ug/l	93
53) t-1,3-Dichloropropene	8.26	75	157726	46.631	ug/l	97
54) cis-1,3-Dichloropropene	7.29	75	206104	48.228	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	86872	46.086	ug/l	95
56) Ethyl methacrylate	8.61	69	100019	41.241	ug/l	99
57) 1,3-Dichloropropane	8.83	76	148173	44.799	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.61	63	44584	290.801	ug/l	100
59) 2-Hexanone	9.48	43	242207	215.092	ug/l	97
60) Dibromochloromethane	8.70	129	128905	48.897	ug/l	99
61) 1,2-Dibromoethane	8.97	107	90802	45.807	ug/l	92
64) Tetrachloroethene	8.13	164	127032	48.582	ug/l	97
65) Chlorobenzene	9.78	112	331888	48.643	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	144032	49.960	ug/l	94
67) Ethyl Benzene	9.88	91	626577	50.606	ug/l	98
68) m/p-Xylenes	10.12	106	450494	96.591	ug/l	98
69) o-Xylene	10.70	106	250347	49.158	ug/l	92
70) Styrene	10.78	104	339886	46.067	ug/l	96
71) Bromoform	10.76	173	68255	45.840	ug/l	94
73) Isopropylbenzene	11.11	105	740542	48.738	ug/l	99
74) N-amyl acetate	11.36	43	150149	38.148	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	117824	42.484	ug/l	99
76) 1,2,3-Trichloropropane	11.86	75	57158	41.936	ug/l	95
77) Bromobenzene	11.49	156	150780	45.351	ug/l	87
78) n-propylbenzene	11.59	91	836037	47.028	ug/l	95
79) 2-Chlorotoluene	11.71	91	493329	48.591	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	586097	46.797	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	45579m	42.550	ug/l	
82) 4-Chlorotoluene	11.89	91	495721	46.800	ug/l	95
83) tert-Butylbenzene	12.12	119	626005	48.927	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	581420	47.405	ug/l	100
85) sec-Butylbenzene	12.30	105	846140	48.074	ug/l	98
86) p-Isopropyltoluene	12.45	119	678891	46.839	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	302789	46.399	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	299614	48.406	ug/l	98
89) n-Butylbenzene	12.84	91	699604	49.659	ug/l	98
90) Hexachloroethane	12.91	117	177800	48.237	ug/l	87
91) 1,2-Dichlorobenzene	12.93	146	277691	45.485	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	21218	44.035	ug/l	81

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QLast Update : Sat Nov 03 05:29:31 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	203424	49.046	ug/l	95
94) Hexachlorobutadiene	14.18	225	140900	52.426	ug/l	98
95) Naphthalene	14.45	128	371566	44.759	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	188928	48.221	ug/l	95

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

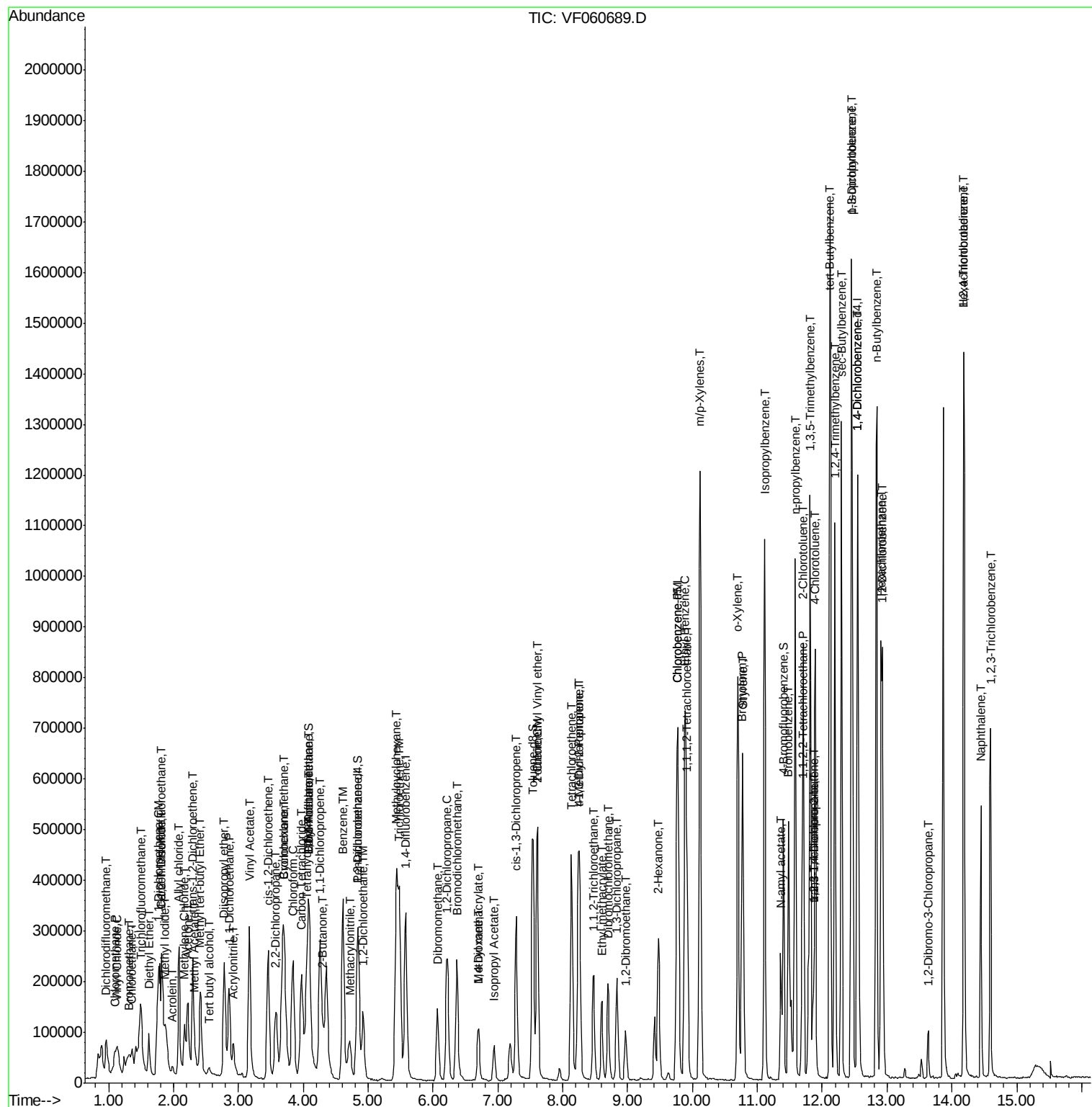
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF111218\
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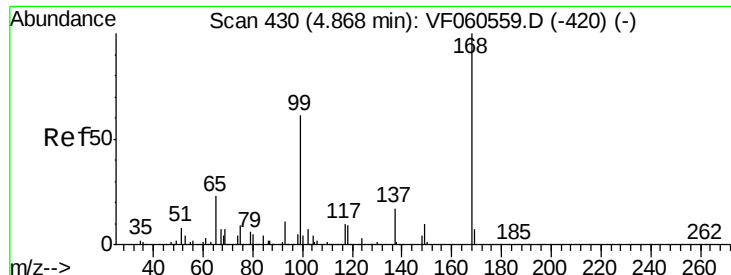
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 217794

Ion Ratio Lower Upper

168 100

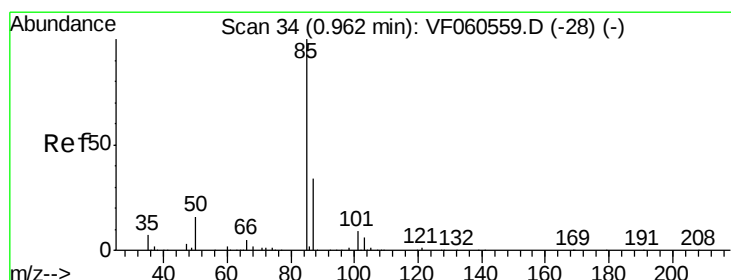
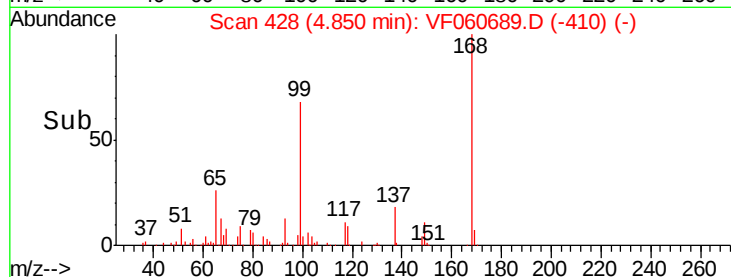
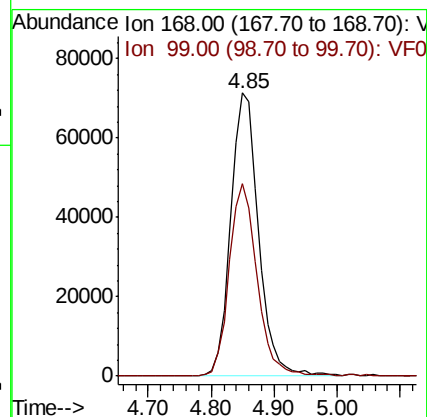
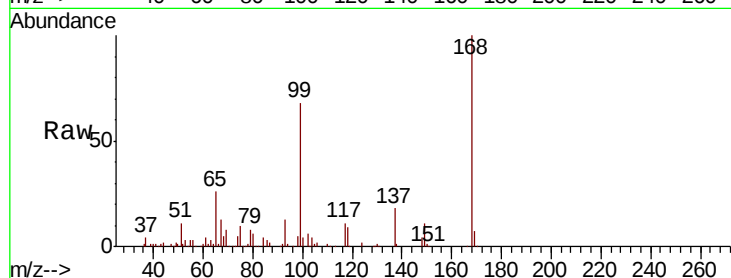
99 68.2 48.6 72.8

Manual Integrations

APPROVED

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11/13/2018 2:11:04 PM



#2

Dichlorodifluoromethane

Concen: 59.308 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060689.D

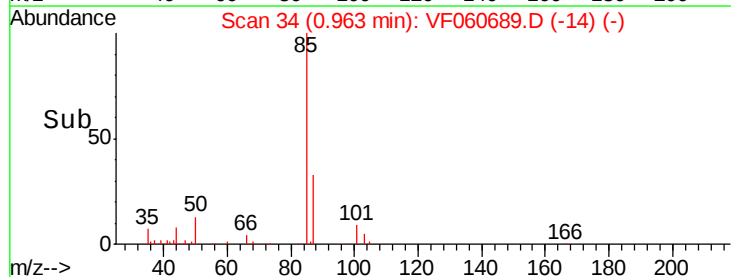
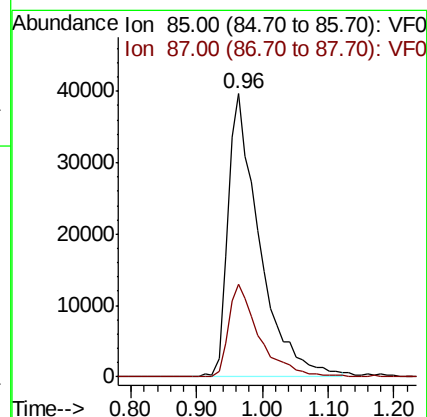
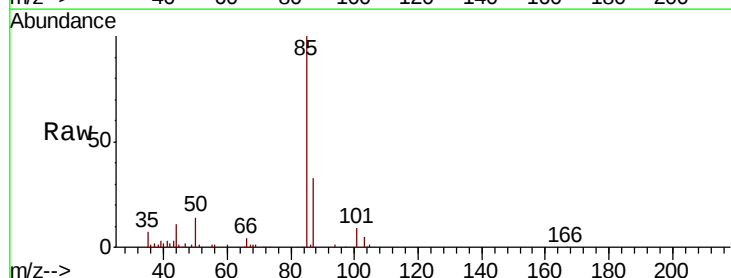
Acq: 12 Nov 2018 14:14

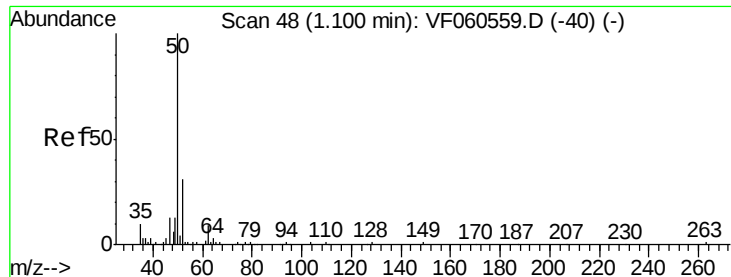
Tgt Ion: 85 Resp: 133271

Ion Ratio Lower Upper

85 100

87 32.7 16.9 50.7





#3

Chloromethane

Concen: 52.756 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 100559

Ion Ratio Lower Upper

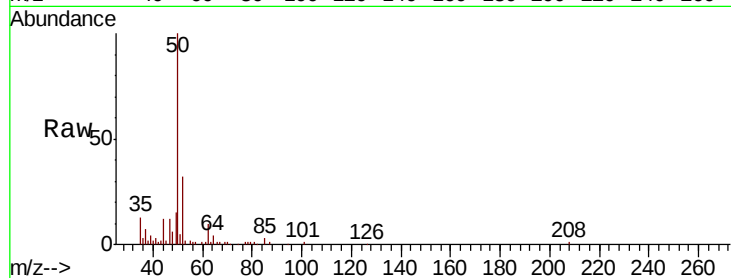
50 100

52 31.9 24.0 36.0

Manual Integrations
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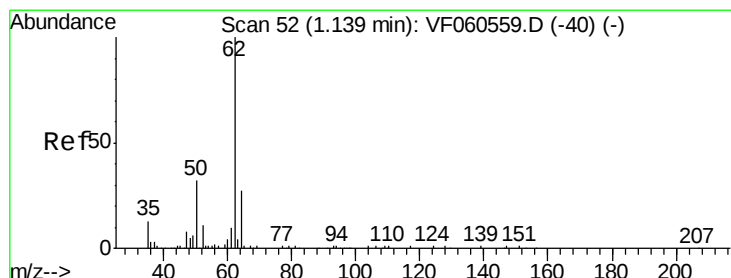
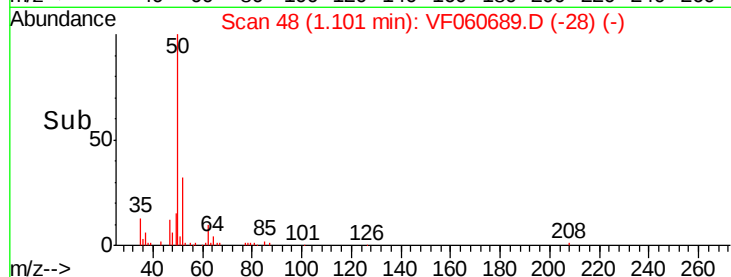
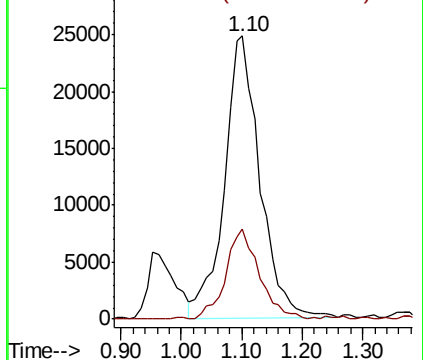
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 53.070 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060689.D

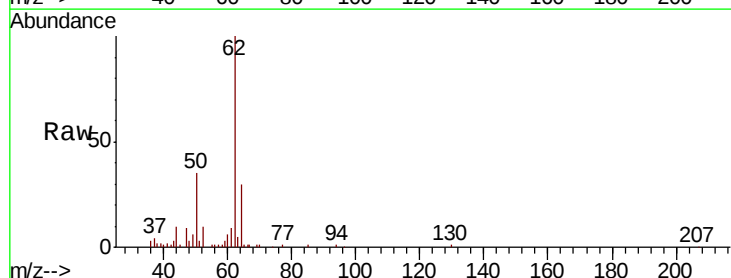
Acq: 12 Nov 2018 14:14

Tgt Ion: 62 Resp: 93215

Ion Ratio Lower Upper

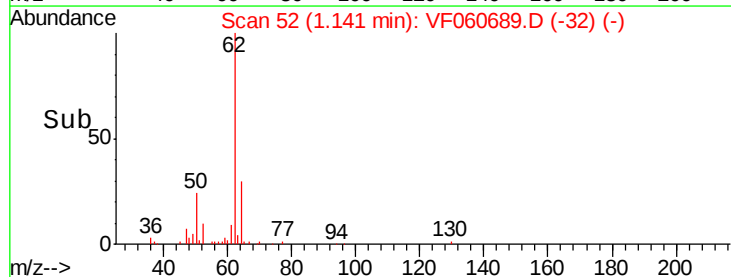
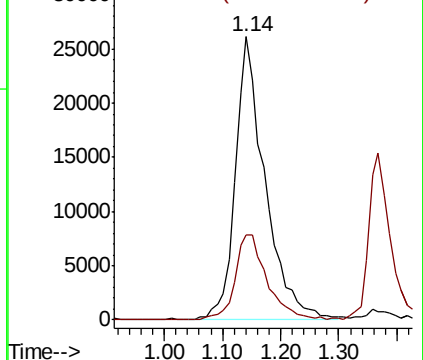
62 100

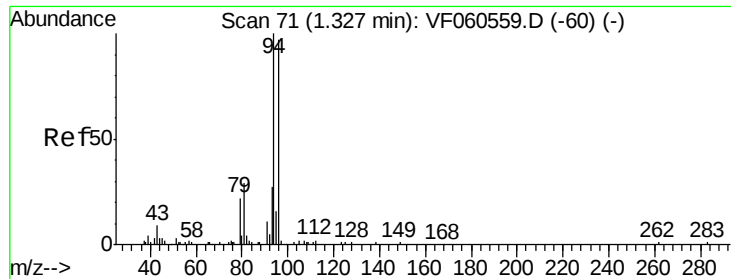
64 29.8 21.8 32.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 58.595 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 57770

Ion Ratio Lower Upper

94 100

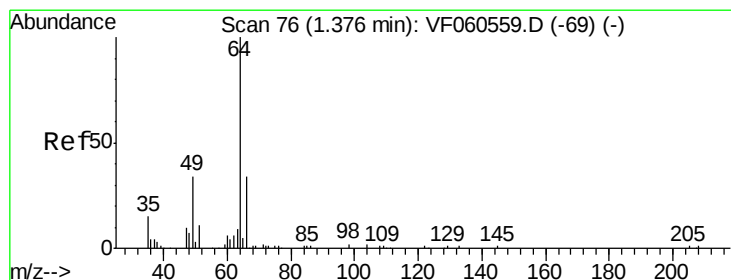
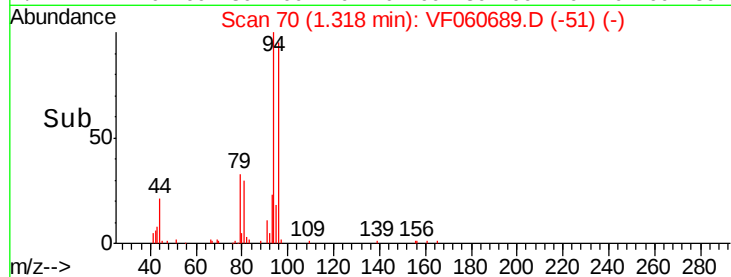
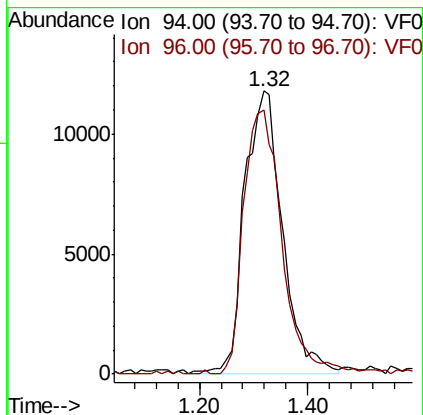
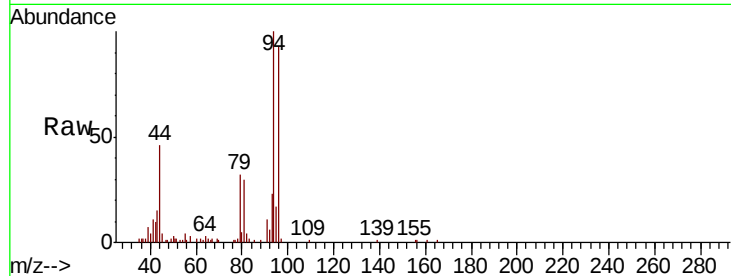
96 93.3 77.9 116.9

Manual Integrations

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#6

Chloroethane

Concen: 64.175 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060689.D

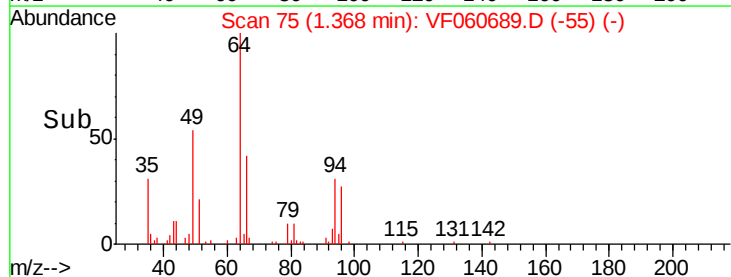
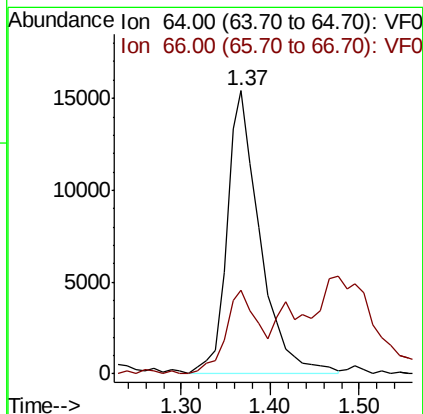
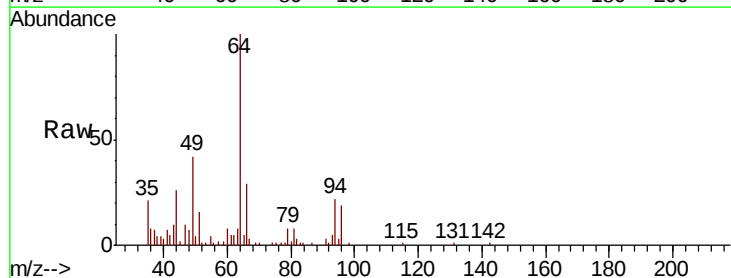
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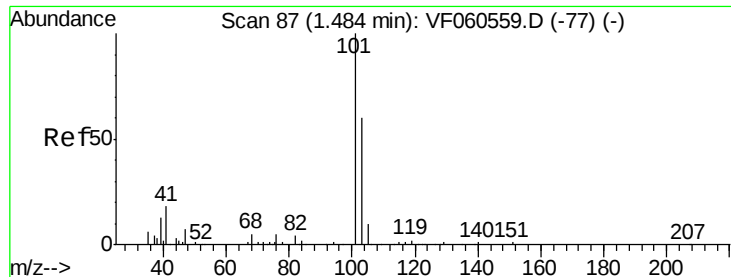
Tgt Ion: 64 Resp: 39925

Ion Ratio Lower Upper

64 100

66 29.4 27.8 41.8





#7

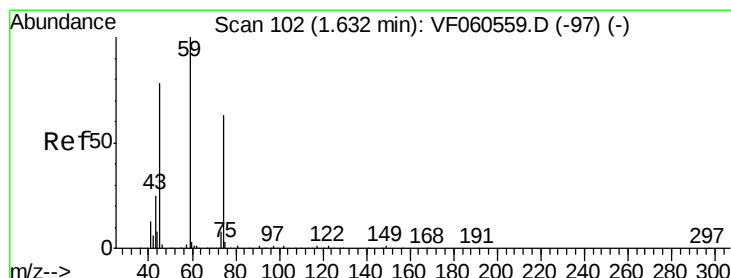
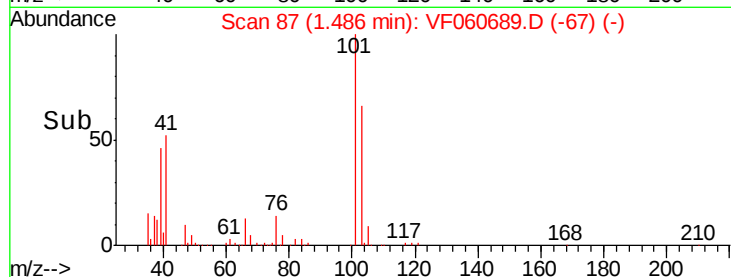
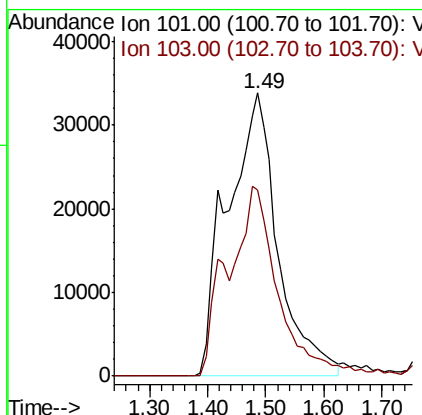
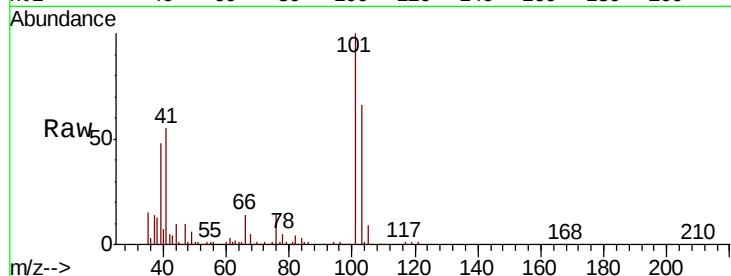
Trichlorofluoromethane
Concen: 62.177 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	48.0	72.0

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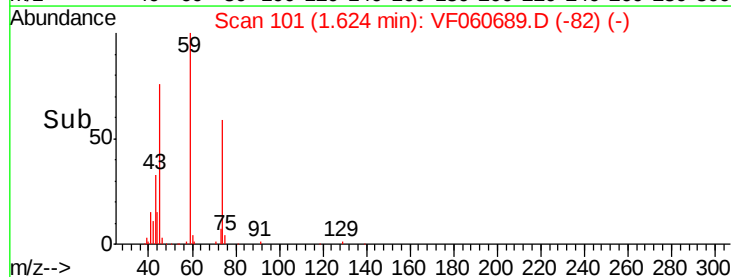
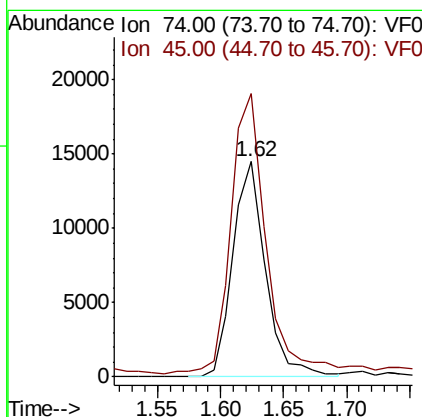
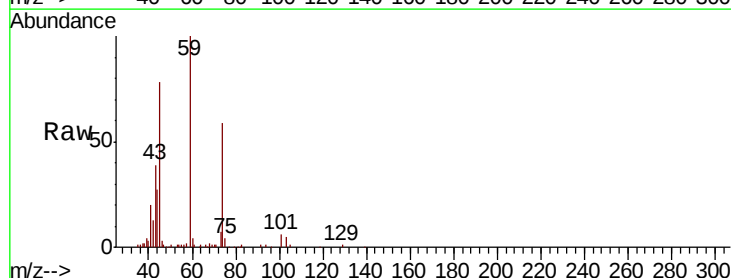
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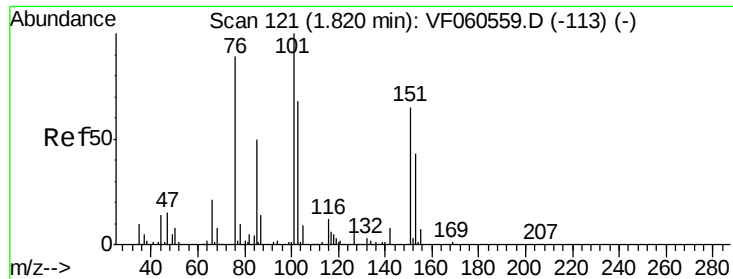


#8

Diethyl Ether
Concen: 42.727 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	131.5	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.047 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

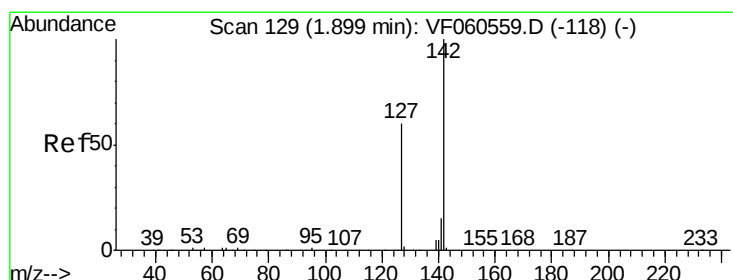
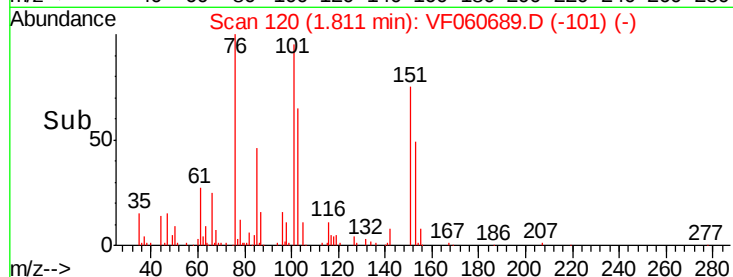
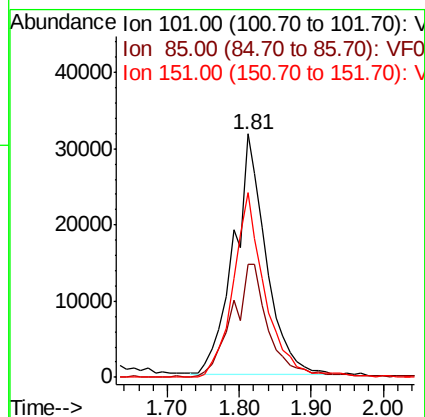
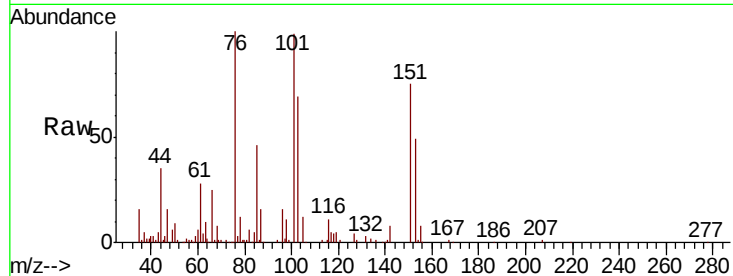
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	97774
Ion Ratio	Lower	Upper	
101	100		
85	46.5	39.8	59.6
151	75.6	50.8	76.2

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#10

Methyl Iodide

Concen: 54.488 ug/l

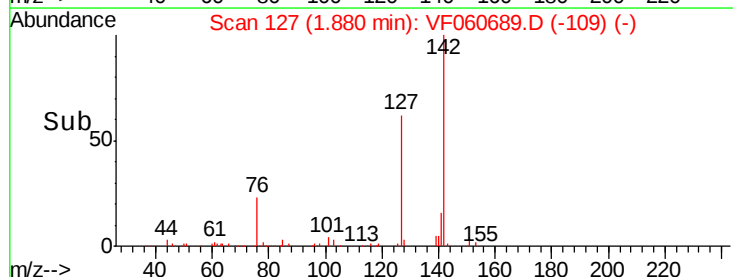
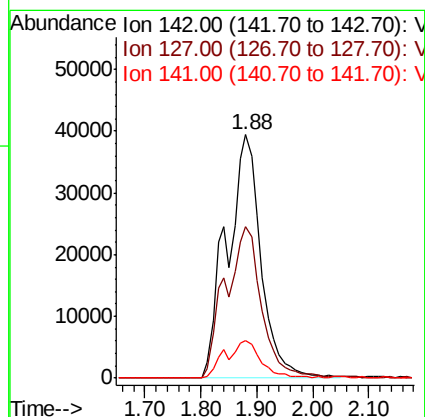
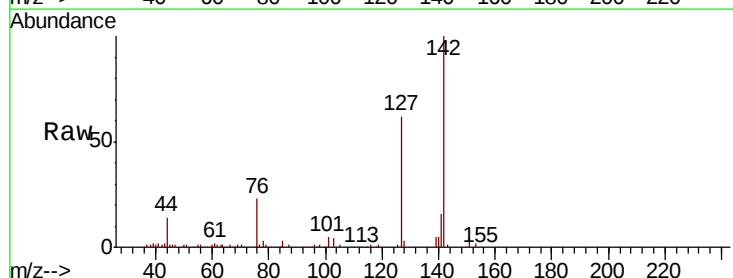
RT: 1.88 min Scan# 127

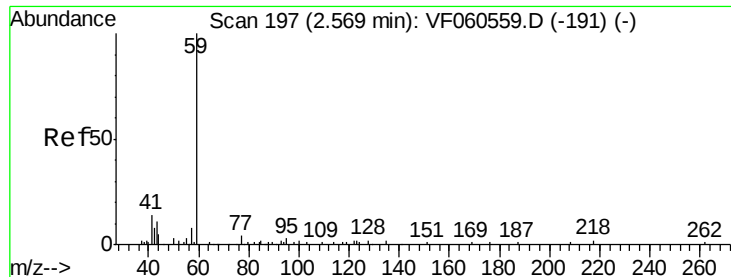
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	142	Resp:	168443
Ion Ratio	Lower	Upper	
142	100		
127	62.4	47.8	71.6
141	15.5	12.7	19.1





#11

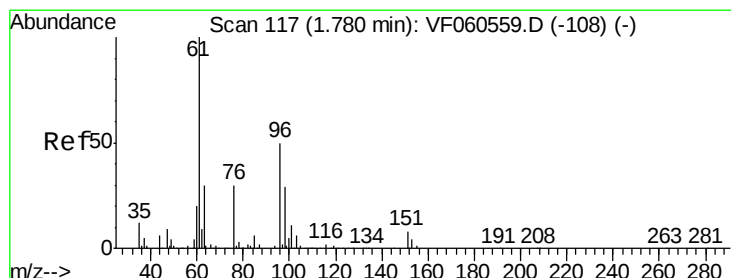
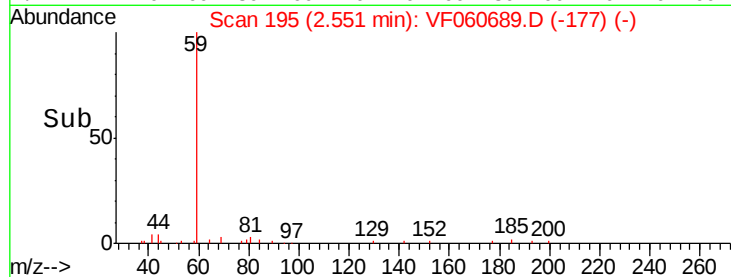
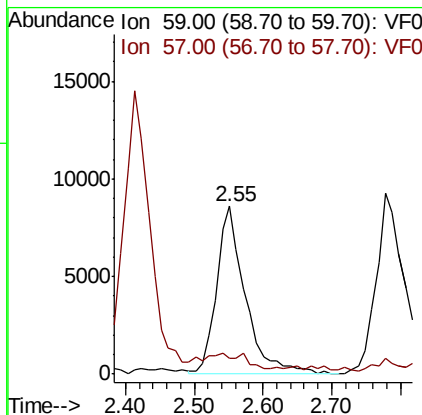
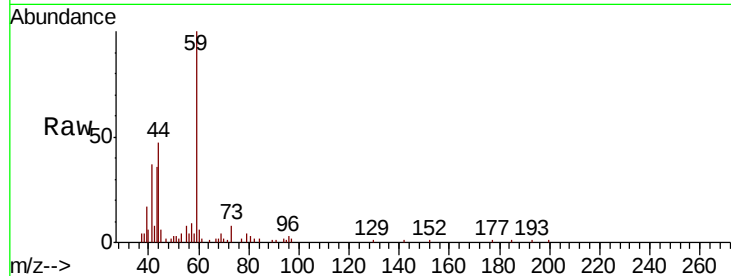
Tert butyl alcohol
Concen: 215.940 ug/l
RT: 2.55 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.3	19.0	28.4#

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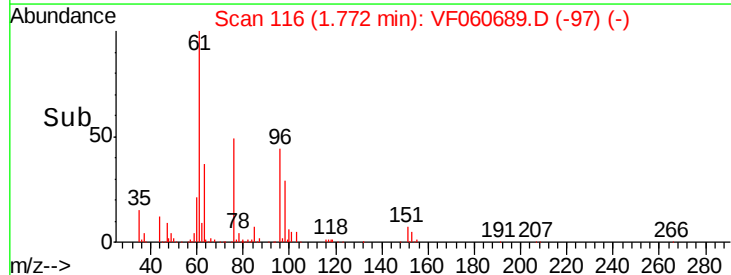
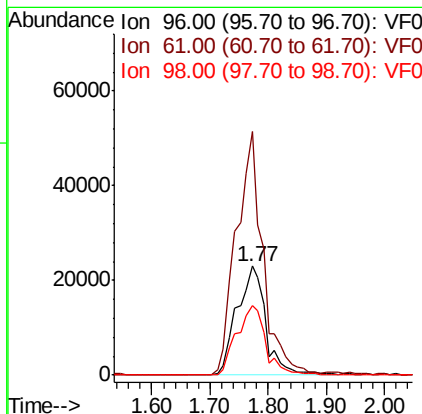
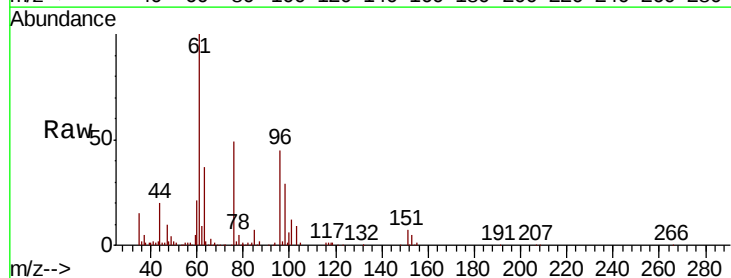
MMDadoda
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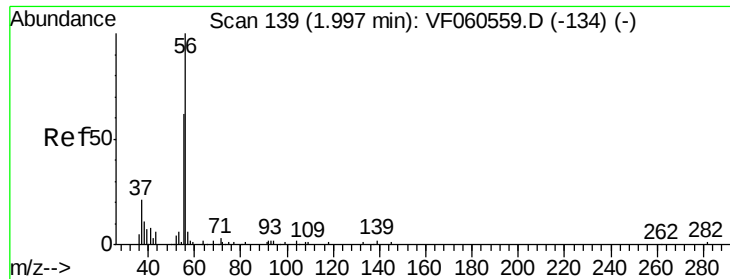


#12

1,1-Dichloroethene
Concen: 50.307 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	223.6	158.1	237.1
98	64.3	47.0	70.6





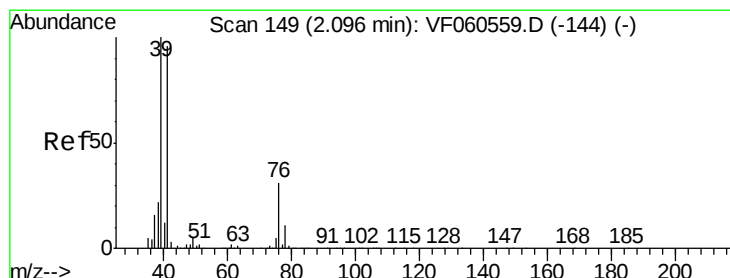
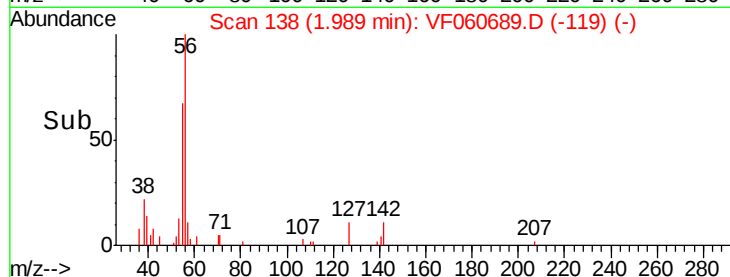
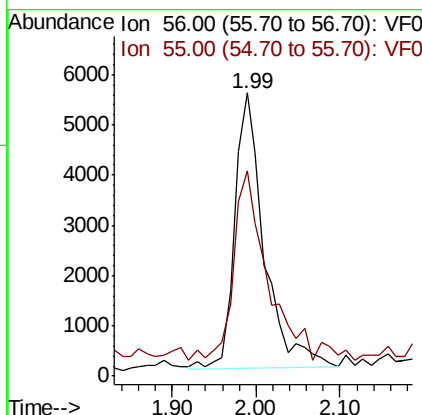
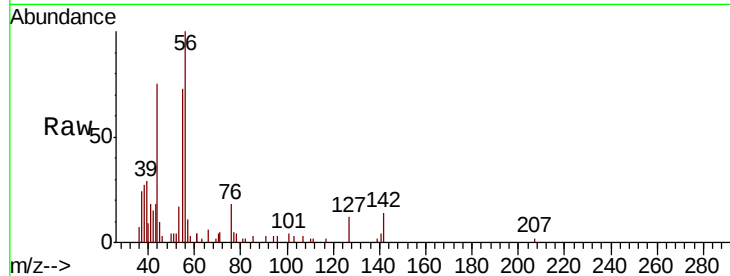
#13
Acrolein
Concen: 175.539 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.6	61.8	92.6

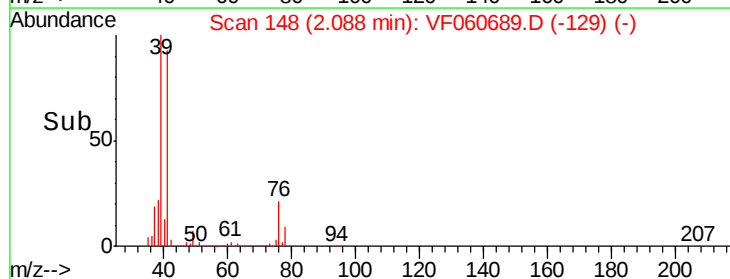
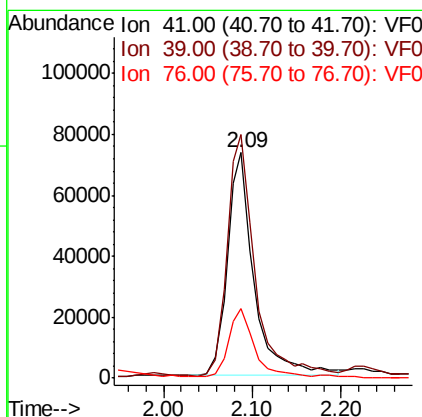
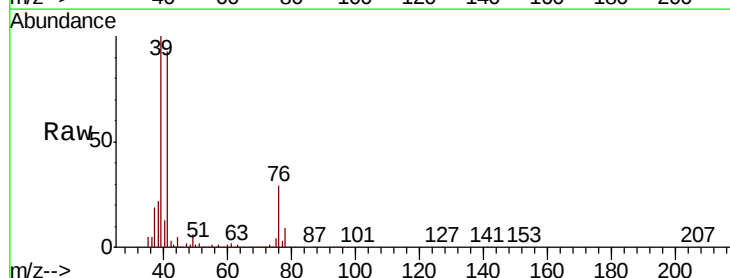
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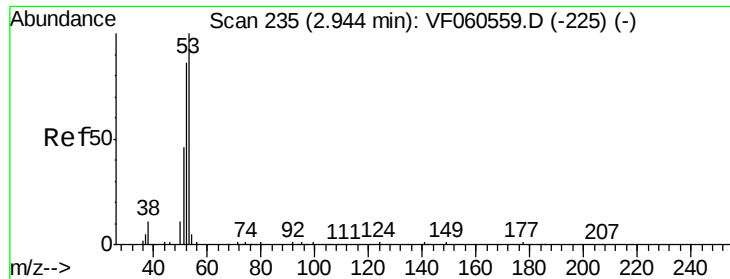
MMDadoda
11/13/2018 2:11:04 PM



#14
Allyl chloride
Concen: 59.996 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
41	100		
39	108.1	82.6	124.0
76	30.9	26.7	40.1





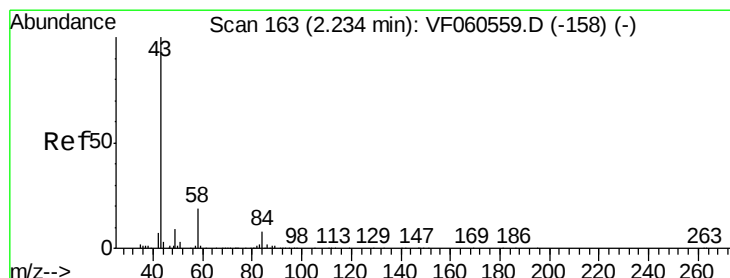
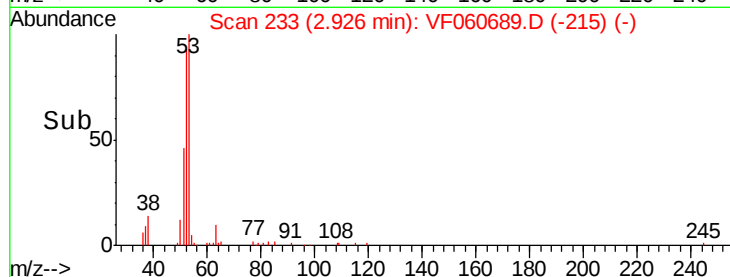
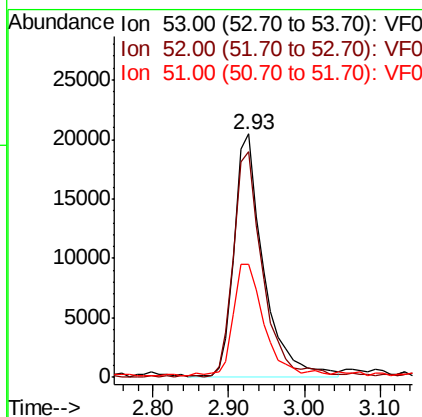
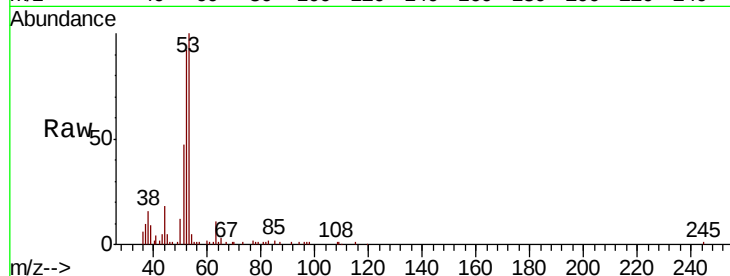
#15
 Acrylonitrile
 Concen: 210.767 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. -0.02 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	53	Resp:	55275
Ion	Ratio	Lower	Upper
53	100		
52	92.5	68.5	102.7
51	46.7	38.2	57.2

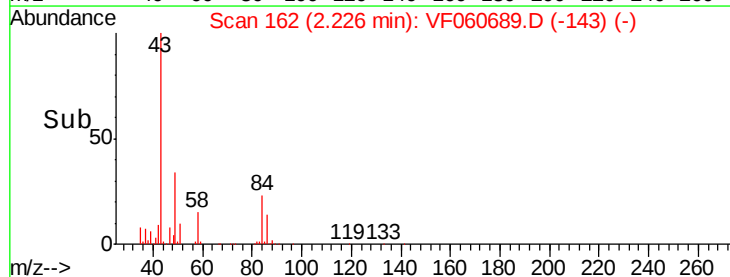
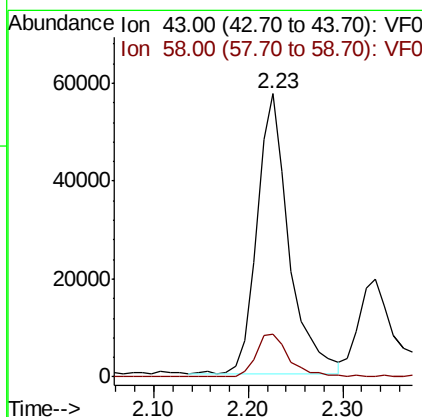
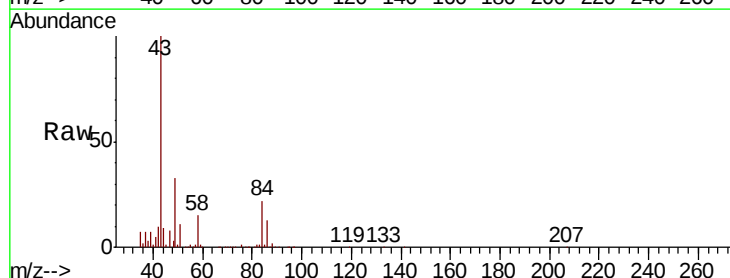
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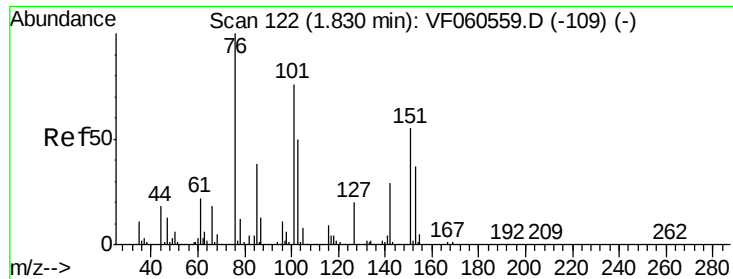
MMDadoda
 11/13/2018 2:11:04 PM



#16
 Acetone
 Concen: 257.804 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Tgt Ion:	43	Resp:	133679
Ion	Ratio	Lower	Upper
43	100		
58	15.1	14.6	22.0





#17

Carbon Disulfide

Concen: 48.338 ug/l m

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tot Ion: 76 Resp: 215437

Ion Ratio Lower Upper

76 100

78 11.6 9.9 14.9

Instrument :

MSVOA_F

ClientSampleId :

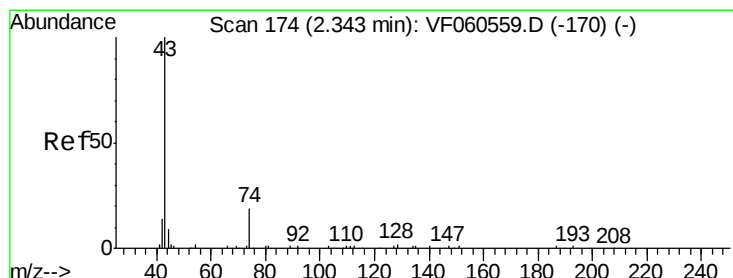
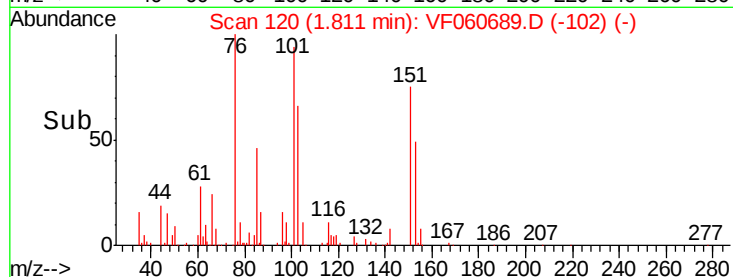
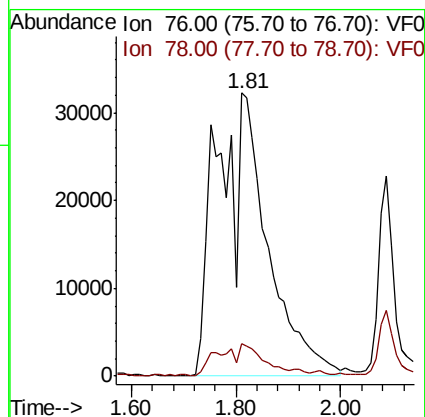
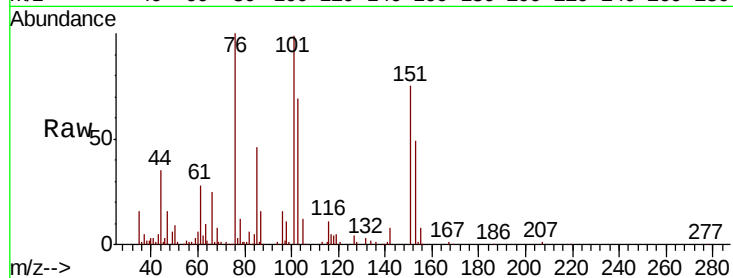
VSTDCCC050

Manual Integrations

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MMDadoda

11/13/2018 2:11:04 PM



#18

Methyl Acetate

Concen: 55.823 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060689.D

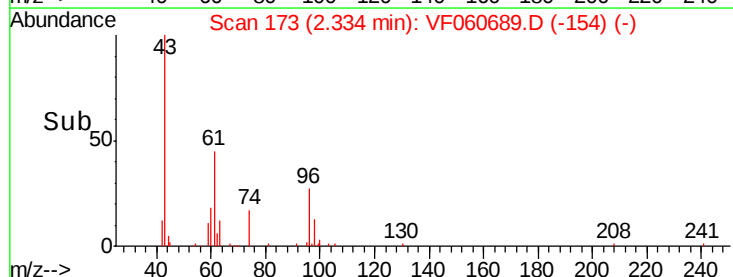
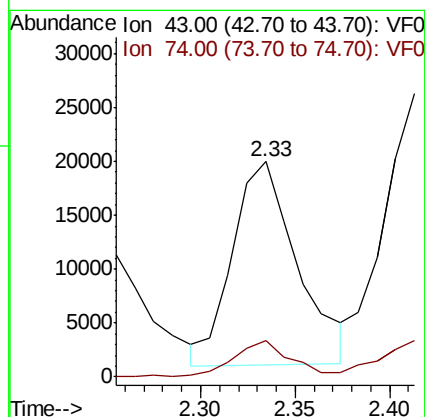
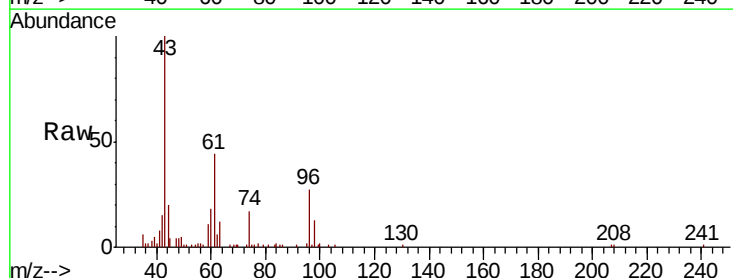
Acq: 12 Nov 2018 14:14

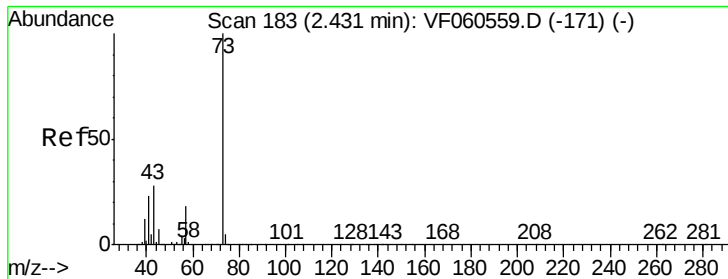
Tgt Ion: 43 Resp: 45008

Ion Ratio Lower Upper

43 100

74 16.7 12.1 18.1





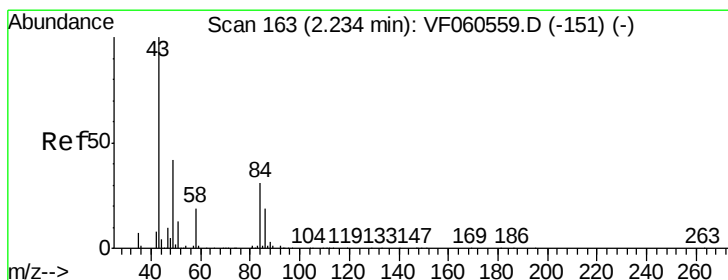
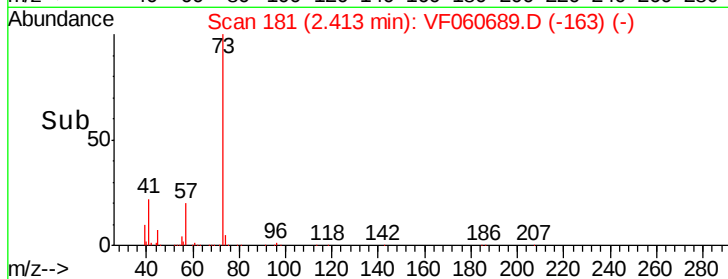
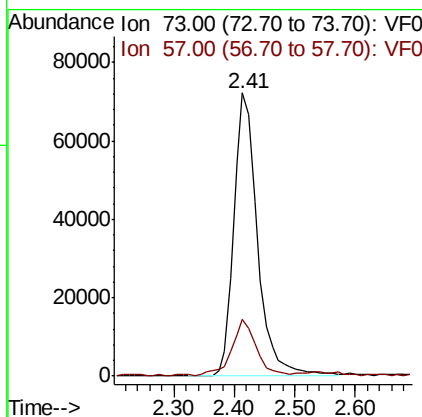
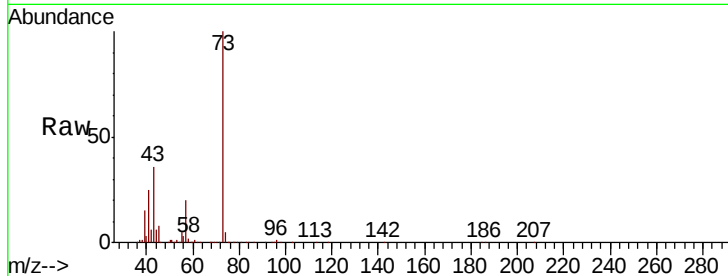
#19
Methvl tert-butvl Ether
Concen: 53.449 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.1	15.4	23.0

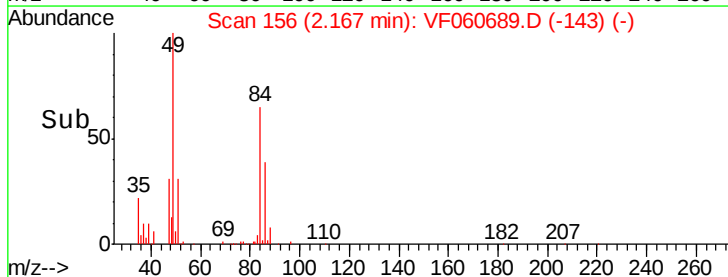
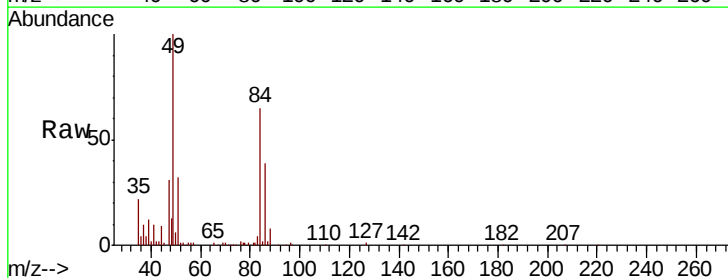
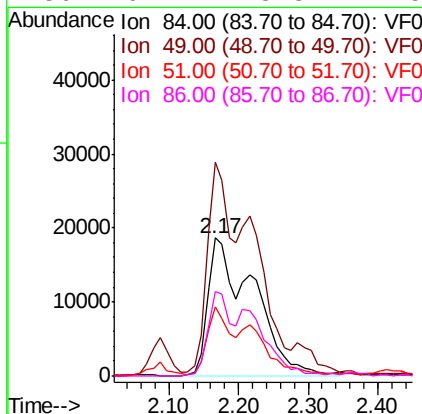
Manual Integrations
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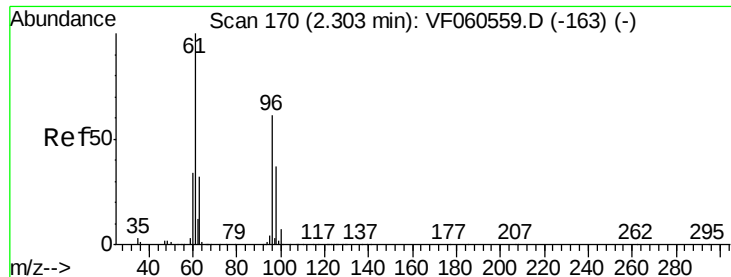
MMDadoda
11/13/2018 2:11:04 PM



#20
Methylene Chloride
Concen: 56.050 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.07 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
84	100		
49	155.0	109.9	164.9
51	50.0	35.8	53.8
86	61.2	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 55.720 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

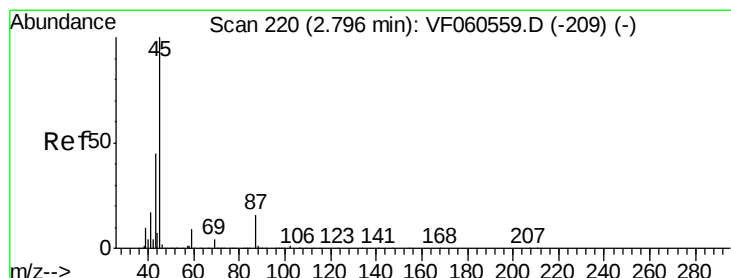
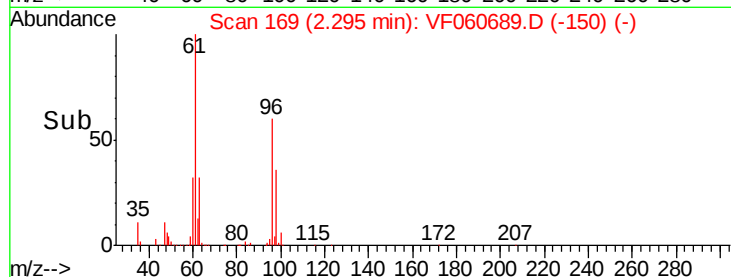
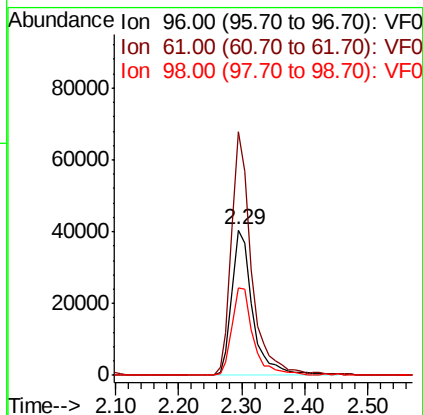
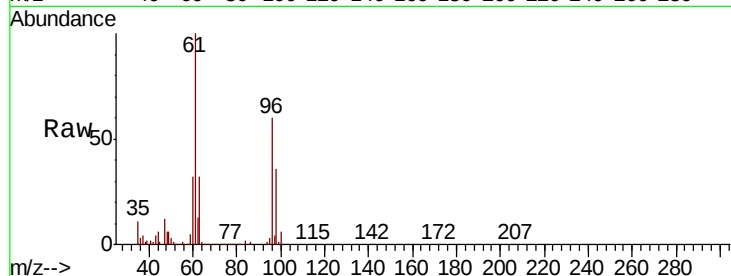
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	92491
Ion	Ratio	Lower	Upper
96	100		
61	167.8	131.3	196.9
98	59.9	48.6	73.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 50.839 ug/l

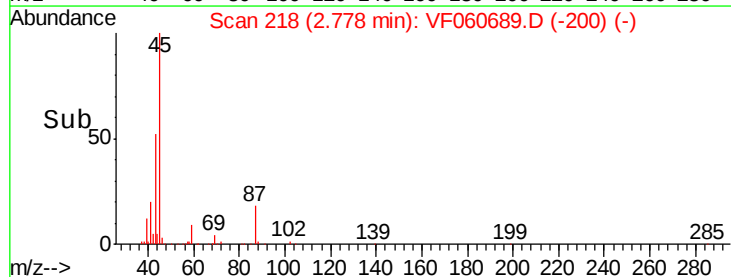
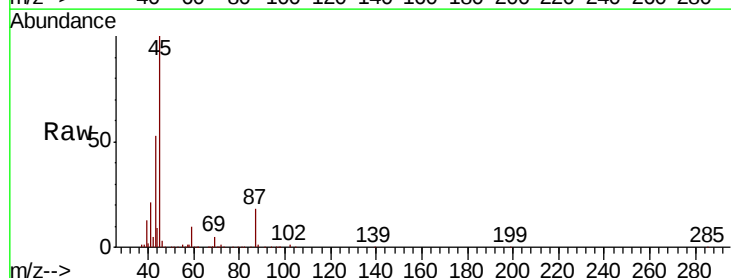
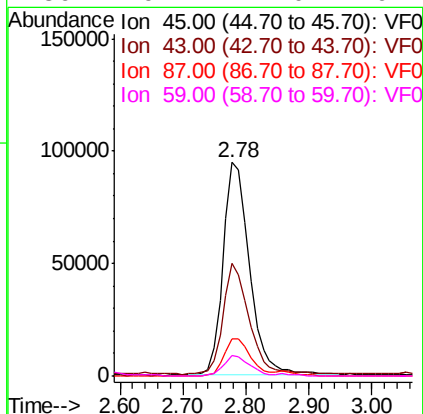
RT: 2.78 min Scan# 218

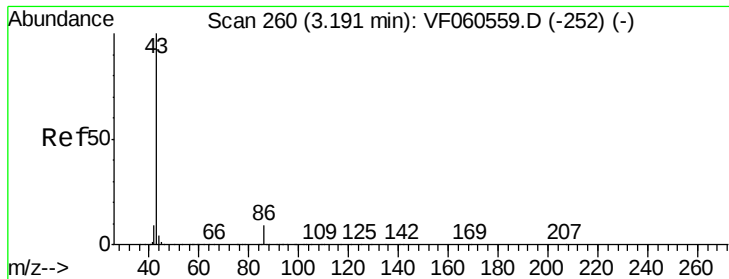
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	45	Resp:	278279
Ion	Ratio	Lower	Upper
45	100		
43	52.6	38.1	57.1
87	17.5	12.7	19.1
59	9.7	7.0	10.4





#23

Vinyl Acetate

Concen: 191.652 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 630298

Ion Ratio Lower Upper

43 100

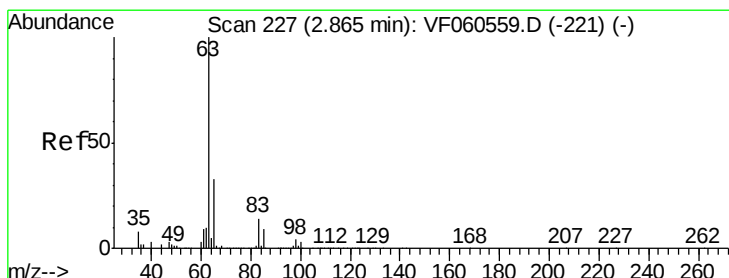
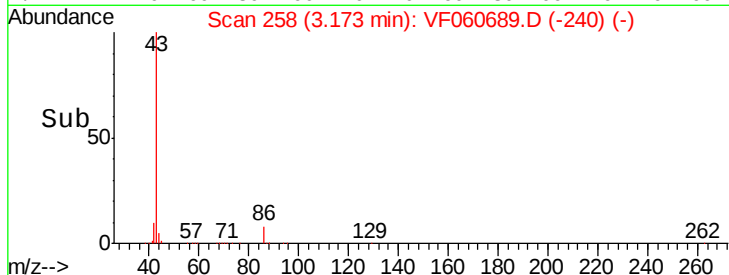
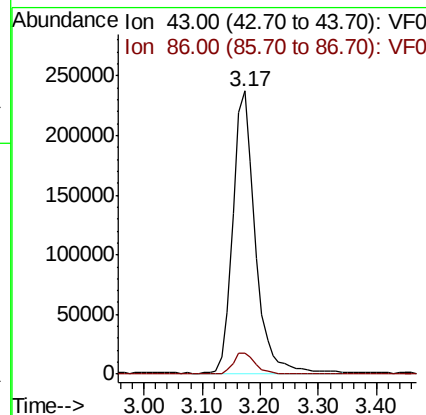
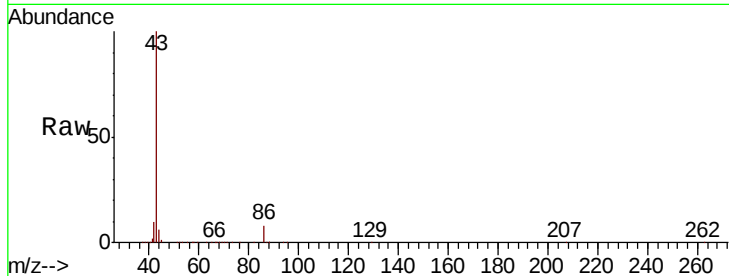
86 7.6 7.1 10.7

Manual Integrations

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MMDadoda

11/13/2018 2:11:04 PM



#24

1,1-Dichloroethane

Concen: 57.629 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

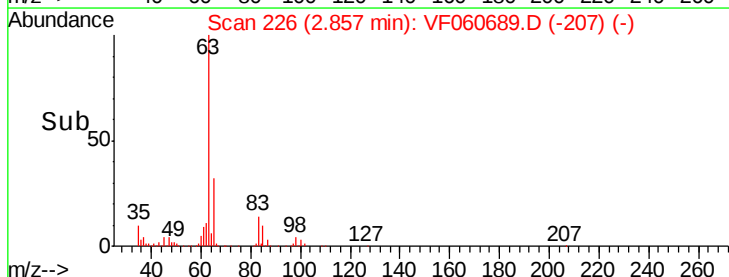
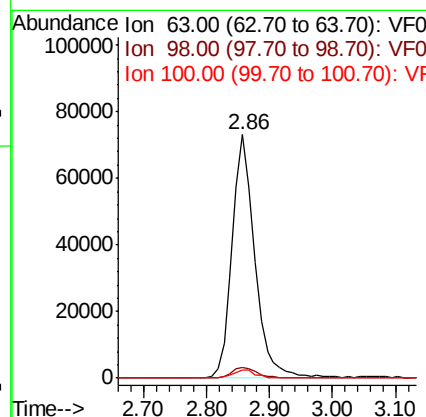
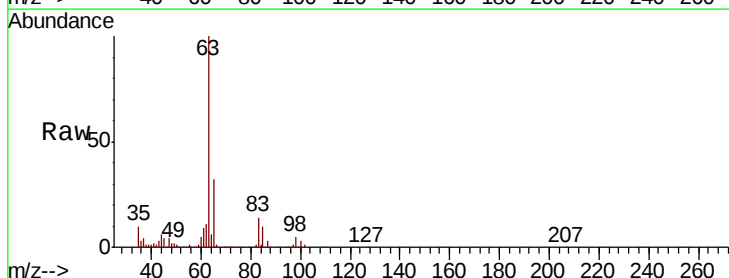
Tgt Ion: 63 Resp: 182560

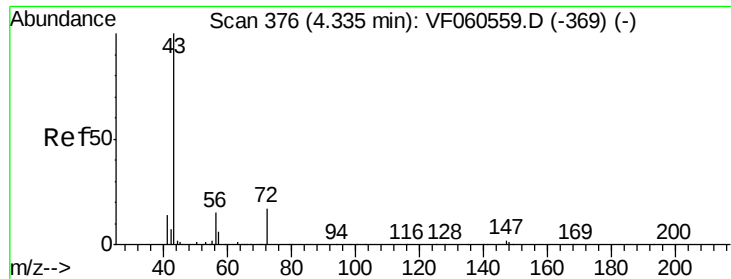
Ion Ratio Lower Upper

63 100

98 4.6 2.2 6.6

100 3.2 1.4 4.0





#25

2-Butanone

Concen: 202.914 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 203783

Ion Ratio Lower Upper

43 100

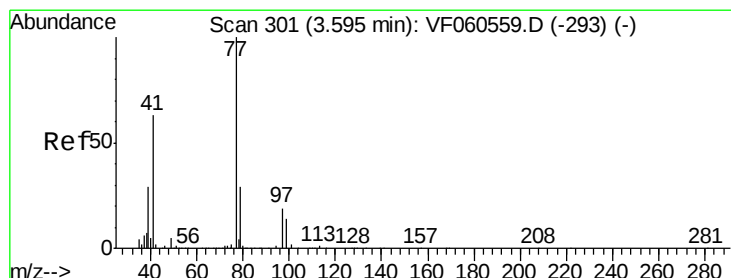
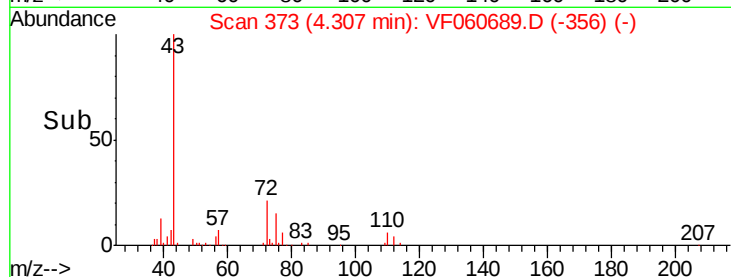
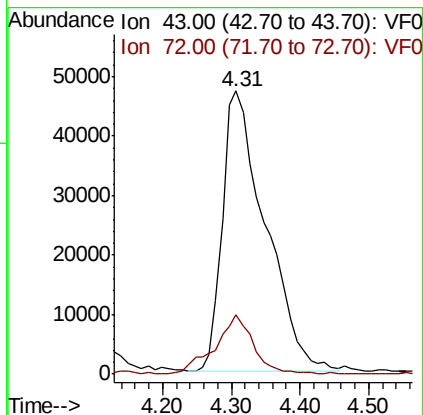
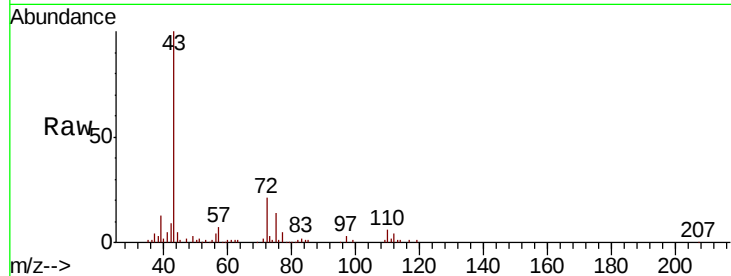
72 21.0 16.2 24.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 57.750 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.02 min

Lab File: VF060689.D

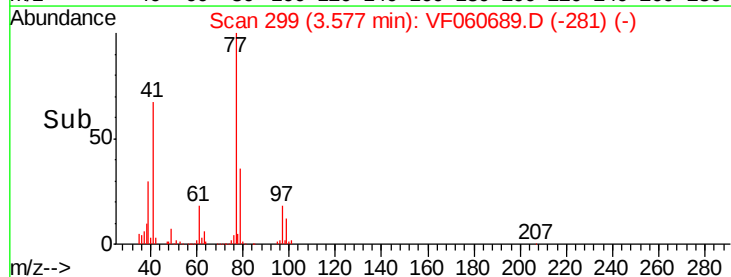
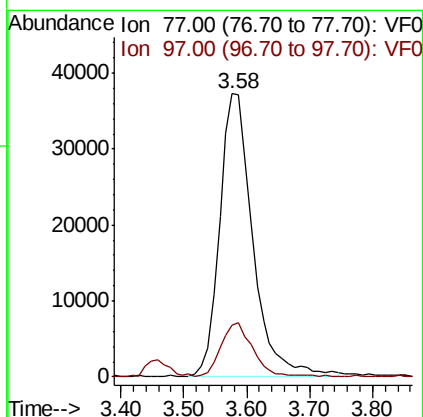
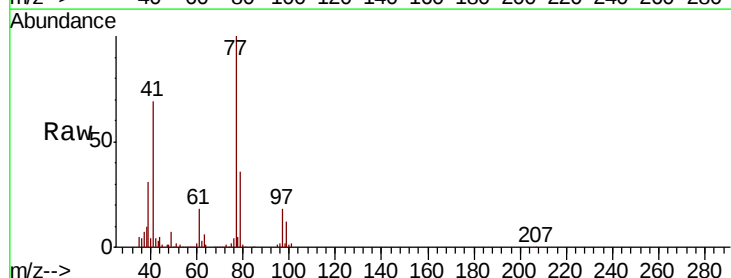
Acq: 12 Nov 2018 14:14

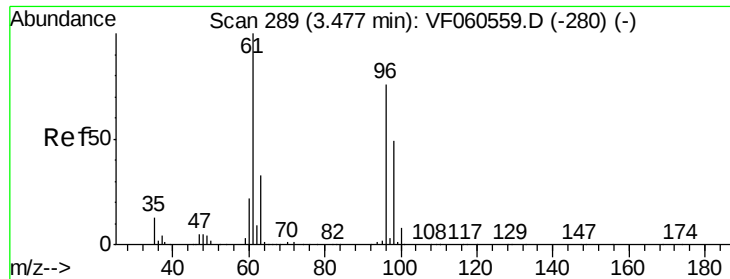
Tgt Ion: 77 Resp: 136887

Ion Ratio Lower Upper

77 100

97 18.3 9.8 29.3





#27

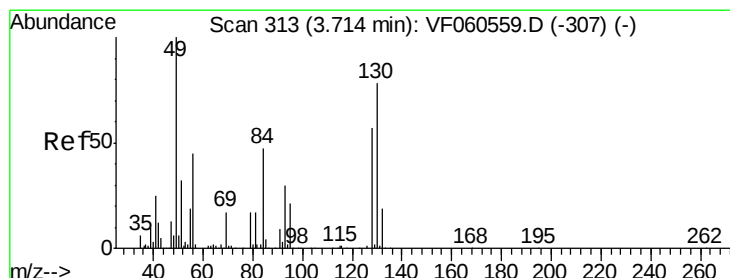
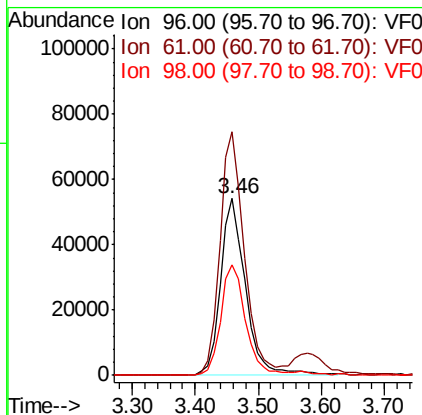
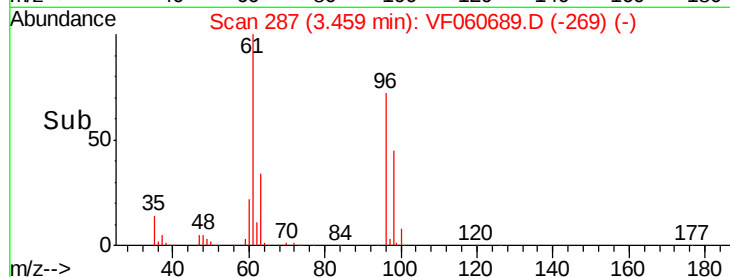
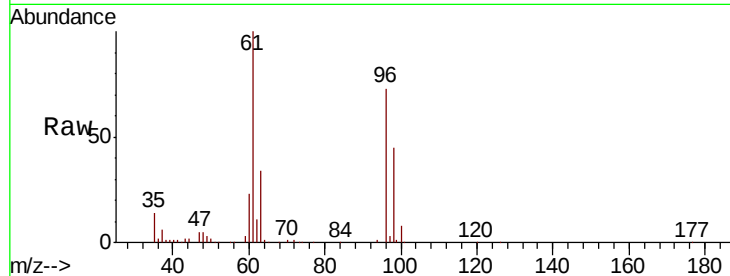
cis-1,2-Dichloroethene
Concen: 47.196 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	149554		
61	137.8	0.0	263.0	
98	62.4	0.0	130.6	

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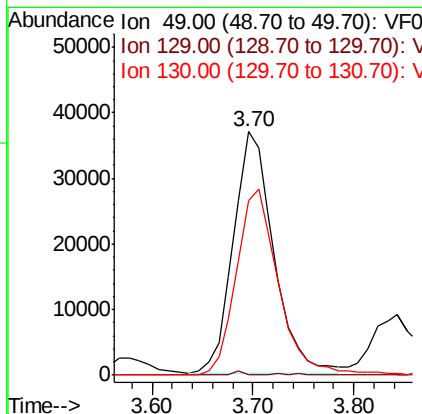
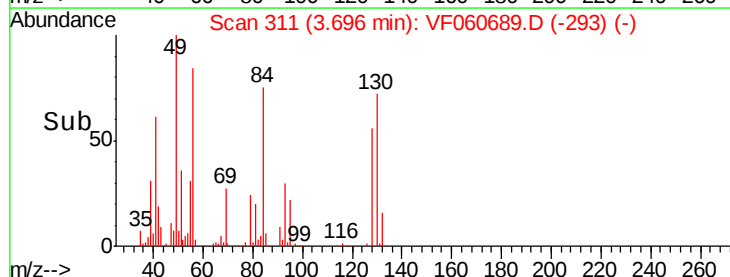
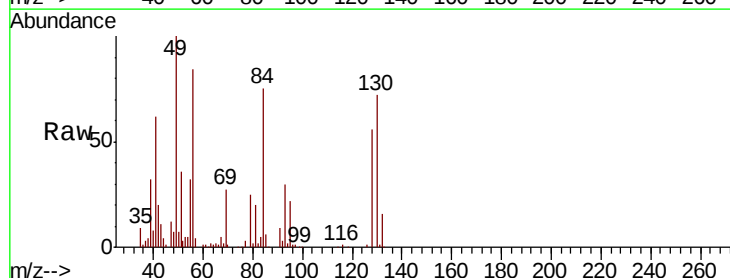
MMDadoda
11/13/2018 2:11:04 PM

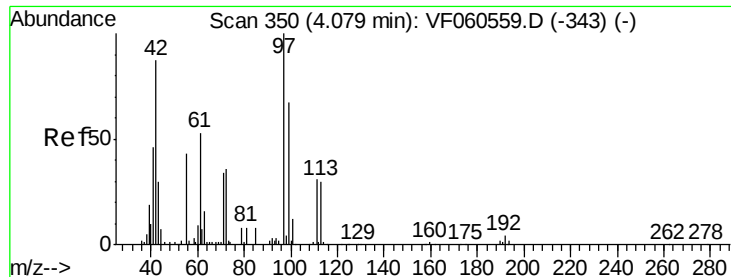


#28

Bromochloromethane
Concen: 52.068 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	103511		
129	0.0	0.0	4.6	
130	71.9	61.8	92.8	





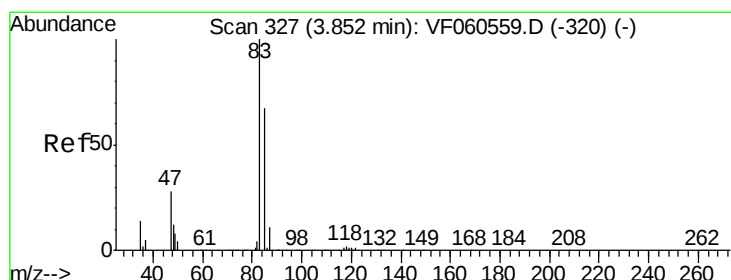
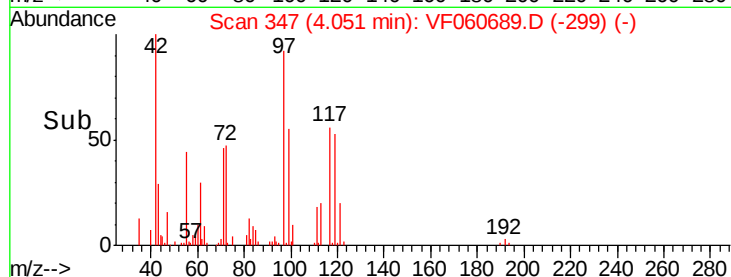
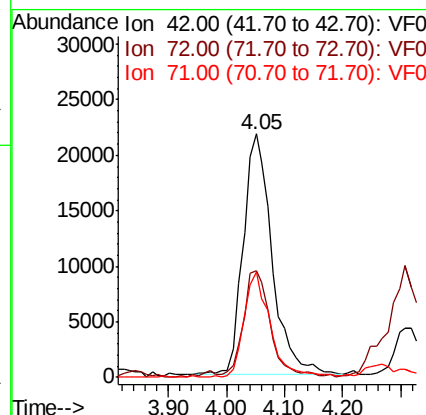
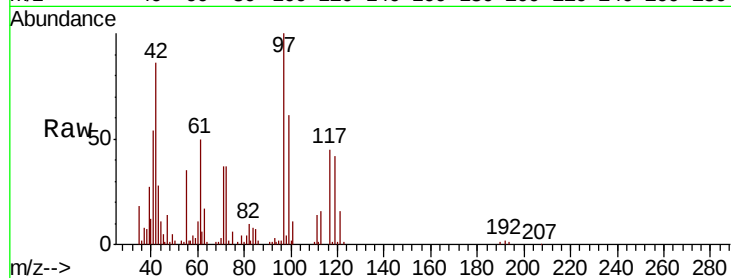
#29
Tetrahydrofuran
Concen: 193.707 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	42	Resp:	75273
Ion	Ratio	Lower	Upper
42	100		
72	42.1	31.4	47.0
71	39.8	31.8	47.6

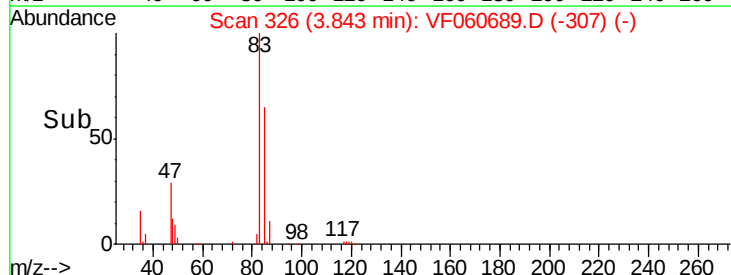
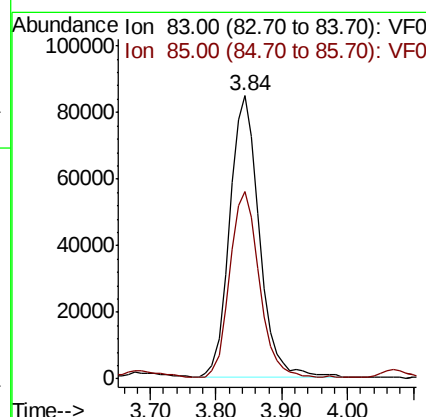
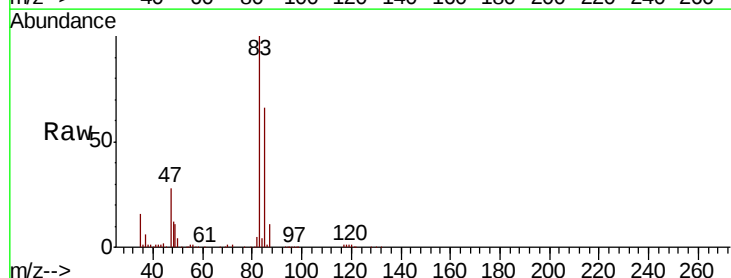
Manual Integrations
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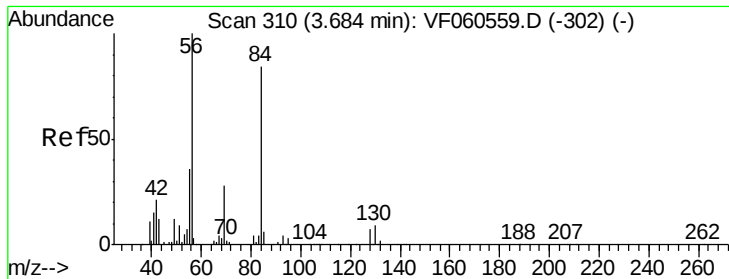
MMDadoda
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#30
Chloroform
Concen: 53.127 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion:	83	Resp:	266260
Ion	Ratio	Lower	Upper
83	100		
85	66.2	53.7	80.5





#31

Cyclohexane

Concen: 44.703 ug/l

RT: 3.69 min Scan# 310

Delta R.T. 0.00 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

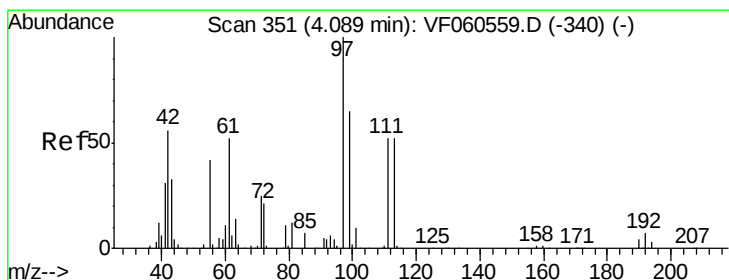
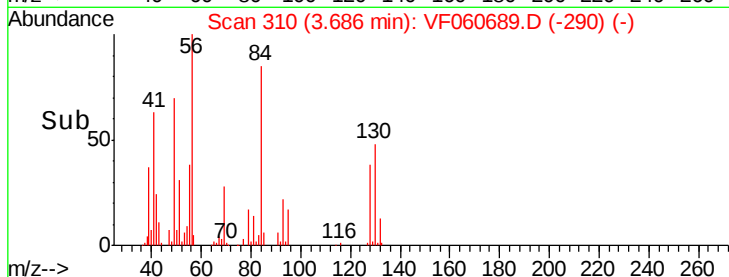
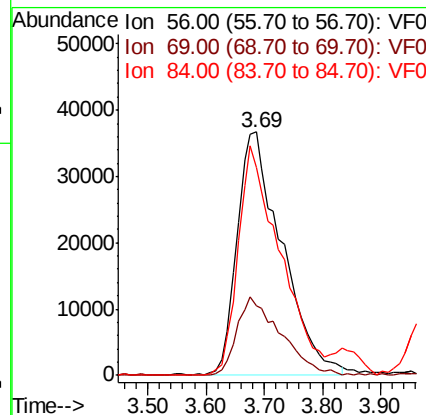
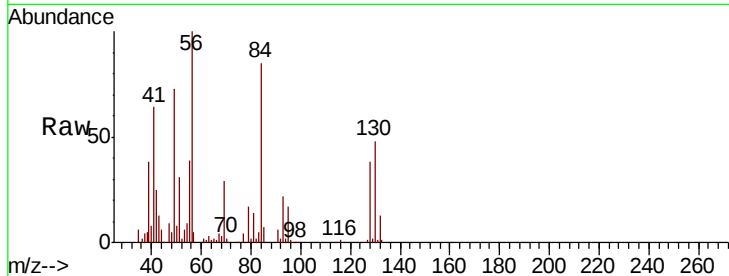
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	195422
Ion Ratio	Lower	Upper	
56	100		
69	28.6	23.0	34.4
84	85.2	67.1	100.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 61.413 ug/l

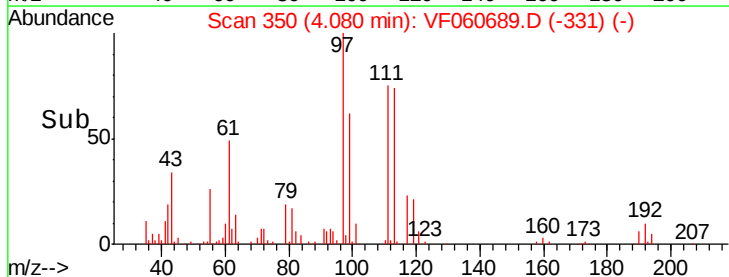
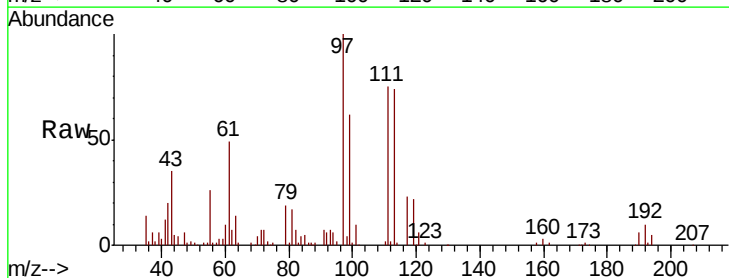
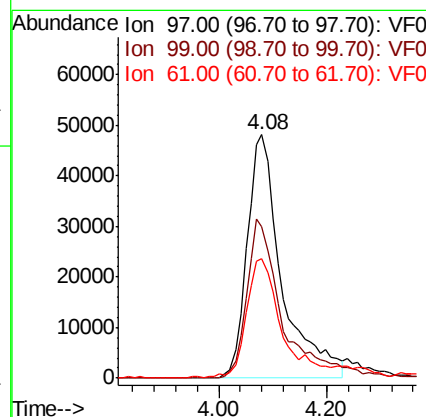
RT: 4.08 min Scan# 350

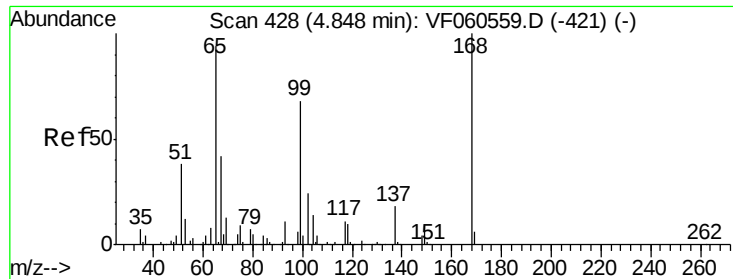
Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	97	Resp:	214969
Ion Ratio	Lower	Upper	
97	100		
99	62.5	52.4	78.6
61	49.1	41.5	62.3





#33

1,2-Dichloroethane-d4

Concen: 56.593 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 124534

Ion Ratio Lower Upper

65 100

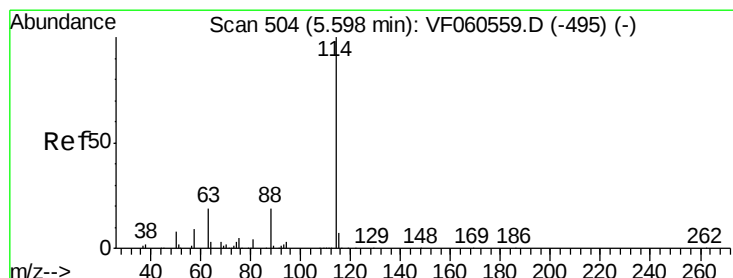
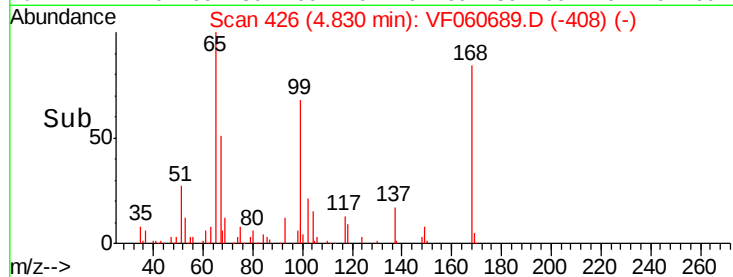
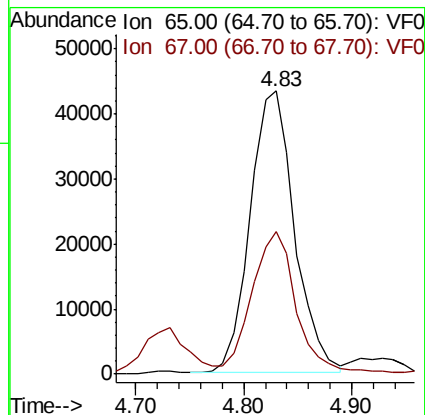
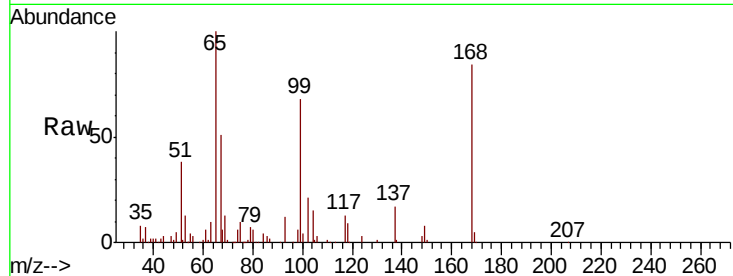
67 50.5 0.0 101.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

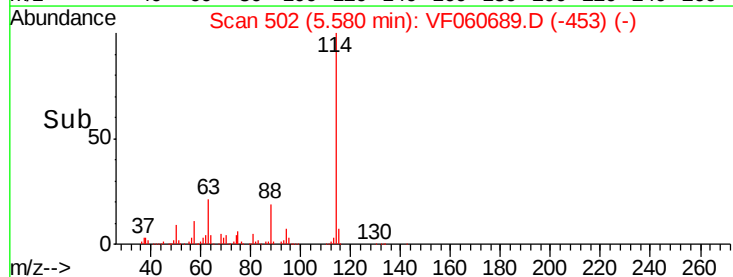
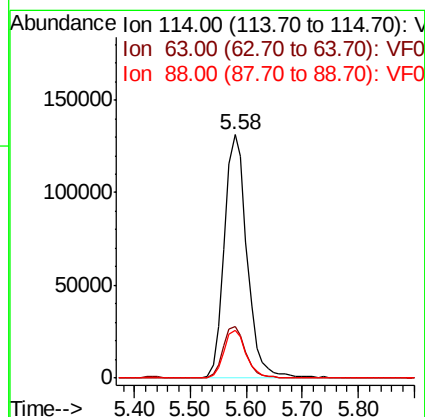
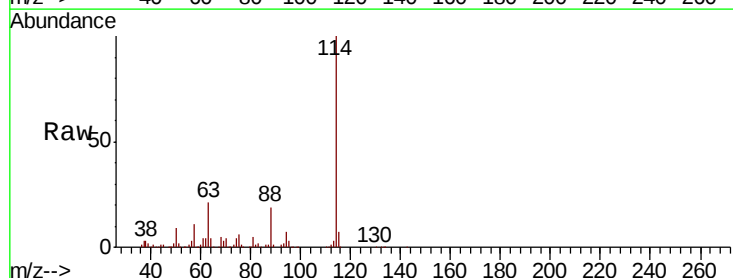
Tgt Ion: 114 Resp: 372069

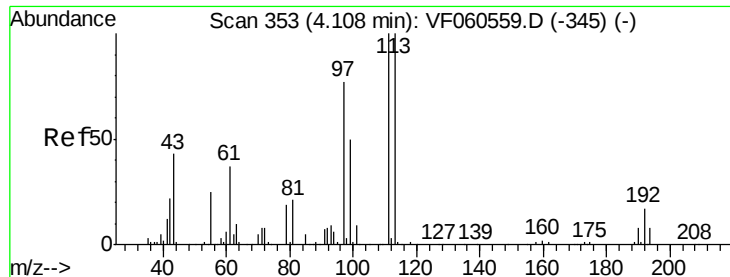
Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.0

88 19.4 0.0 38.2





#35

Dibromofluoromethane

Concen: 50.543 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

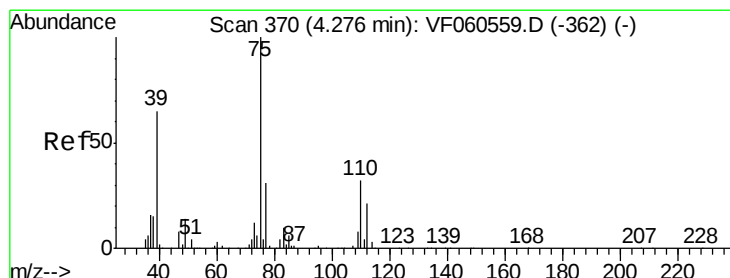
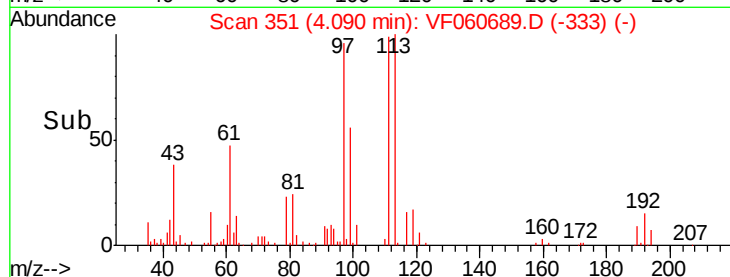
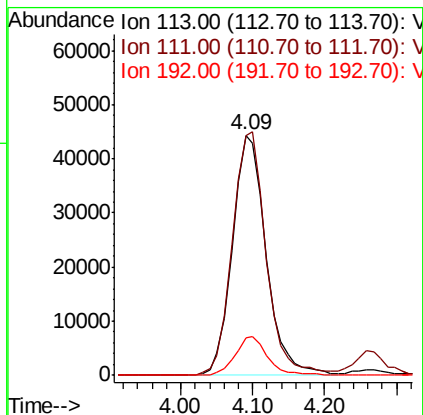
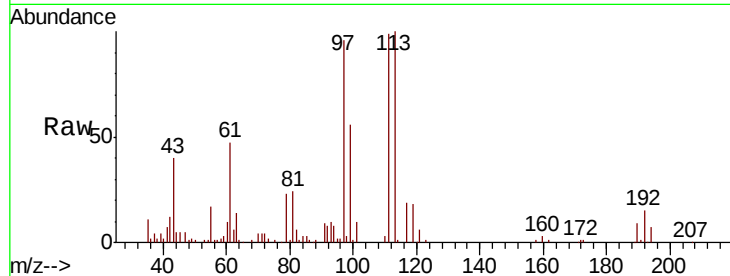
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	145292
Ion Ratio	Lower	Upper	
113	100		
111	99.5	79.9	119.9
192	15.8	13.3	19.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 48.478 ug/l

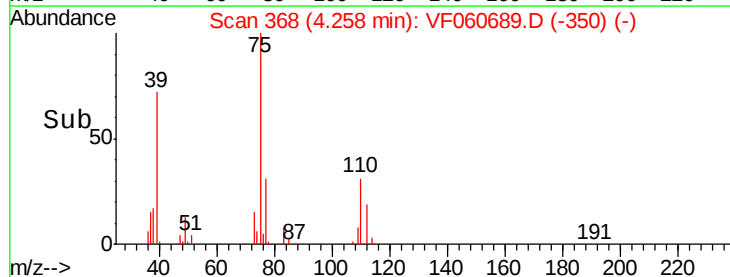
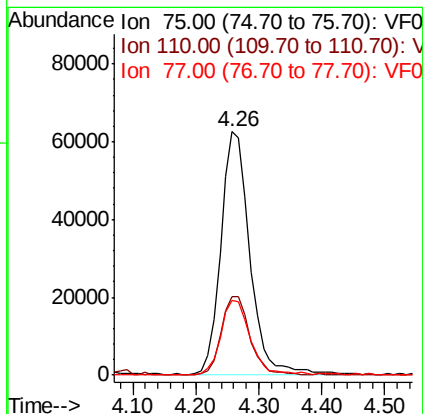
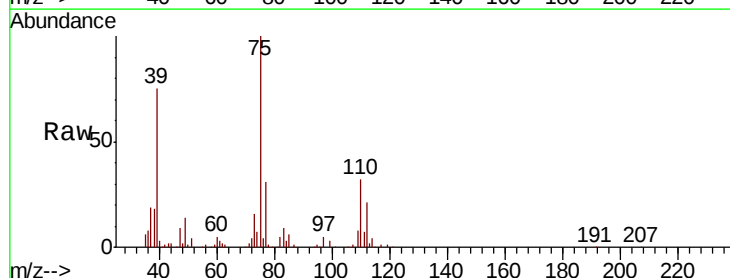
RT: 4.26 min Scan# 368

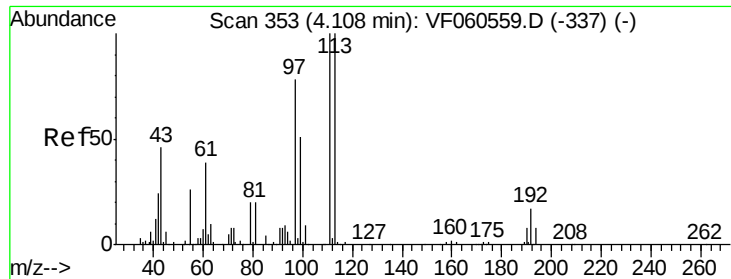
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	75	Resp:	198603
Ion Ratio	Lower	Upper	
75	100		
110	32.1	16.2	48.6
77	30.6	25.0	37.6





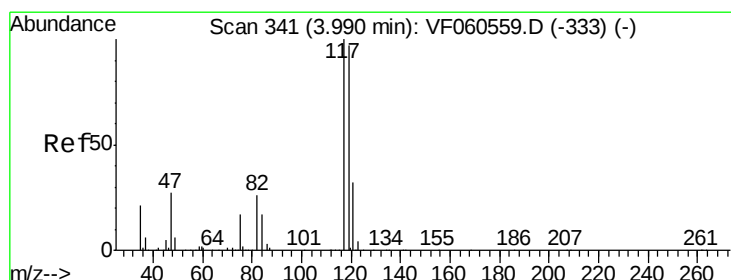
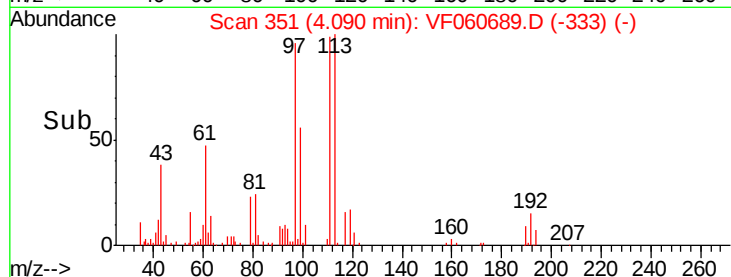
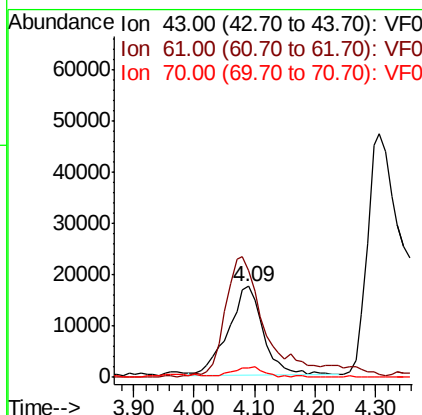
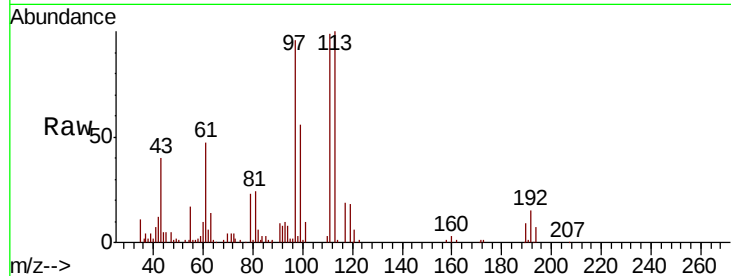
#37
Ethyl Acetate
Concen: 35.183 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	117.2	63.4	95.2#
70	10.2	9.3	13.9

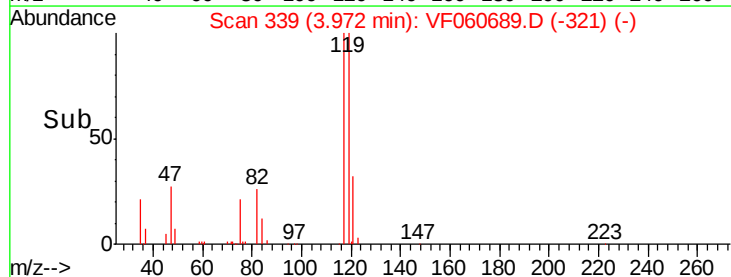
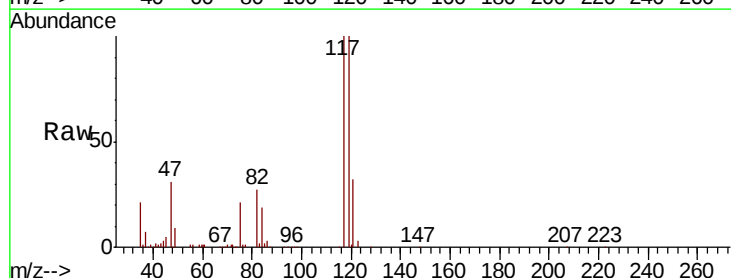
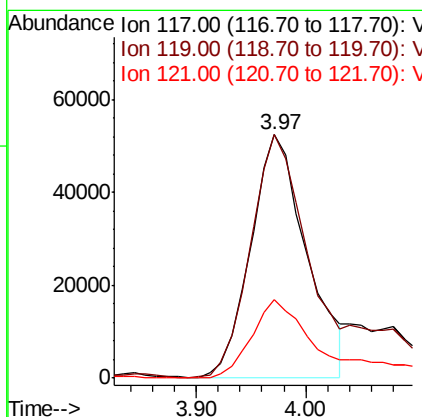
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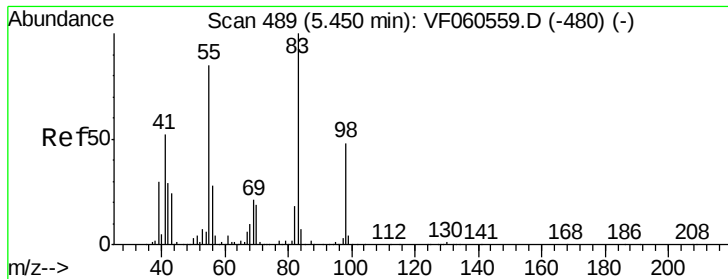
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11/13/2018 2:11:04 PM



#38
Carbon Tetrachloride
Concen: 53.503 ug/l m
RT: 3.97 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.9	77.8	116.6
121	32.2	25.6	38.4





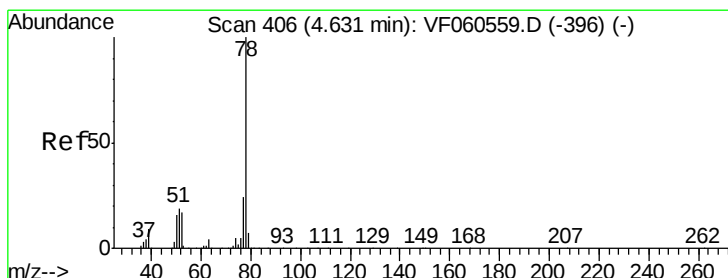
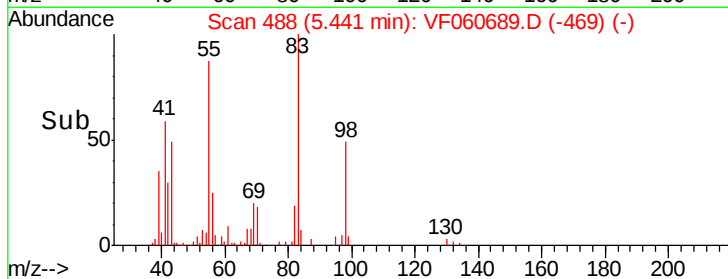
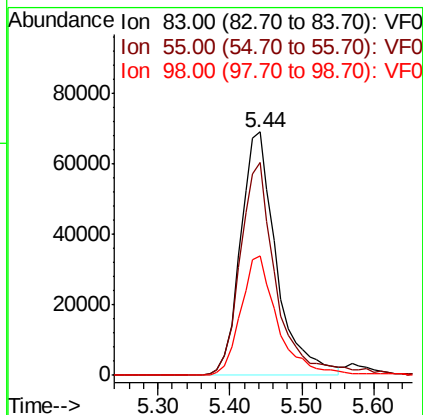
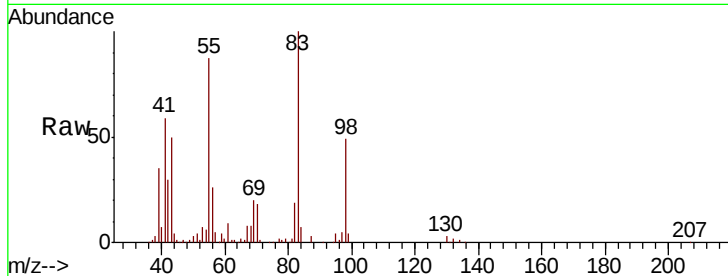
#39
Methylvlcyclohexane
Concen: 47.954 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.2	69.1	103.7
98	49.3	38.6	57.8

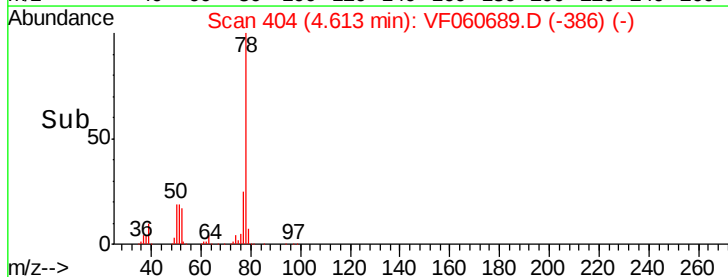
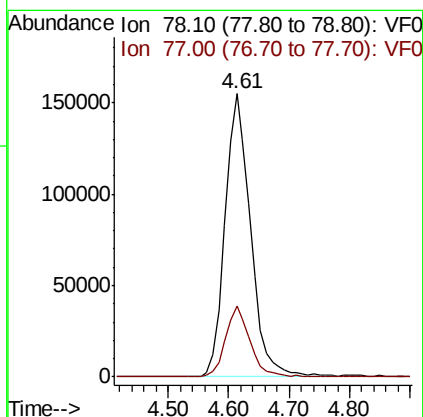
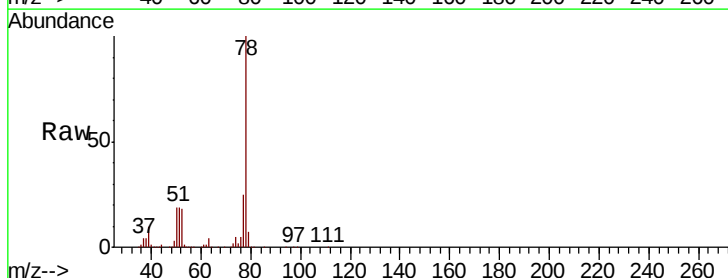
Manual Integrations
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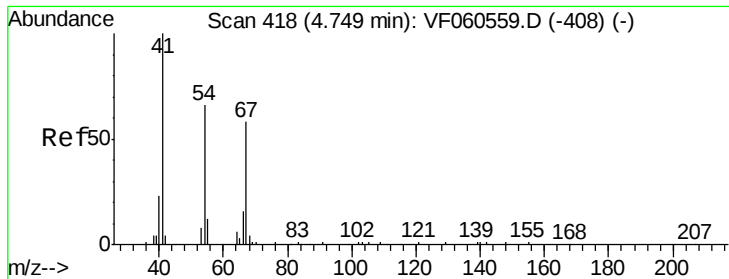
MMDadoda
11/13/2018 2:11:04 PM



#40
Benzene
Concen: 45.659 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.3	28.9





#41

Methacrylonitrile

Concen: 38.252 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.03 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

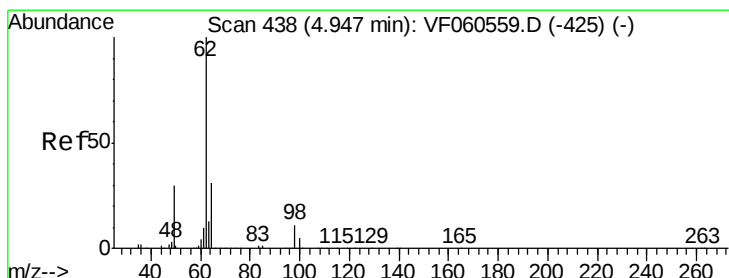
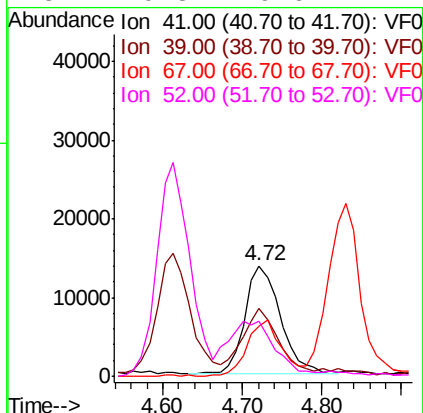
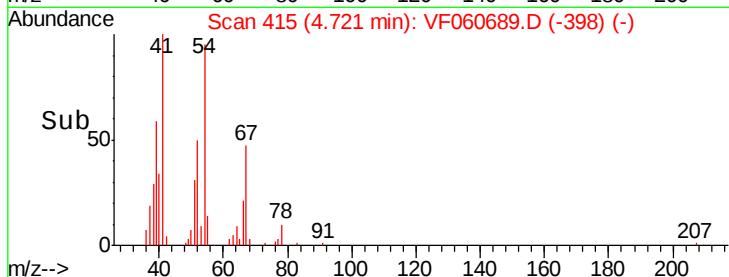
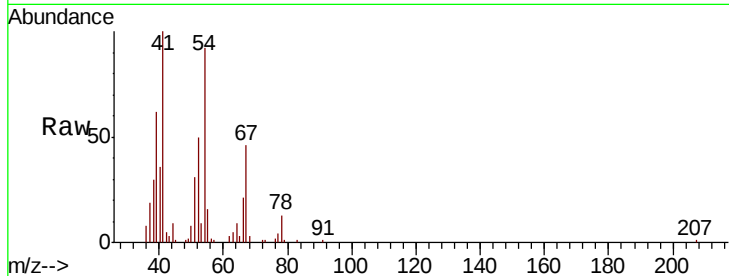
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.6	45.6	68.4	
67	45.5	45.3	67.9	
52	49.8	29.6	44.4	

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 52.559 ug/l

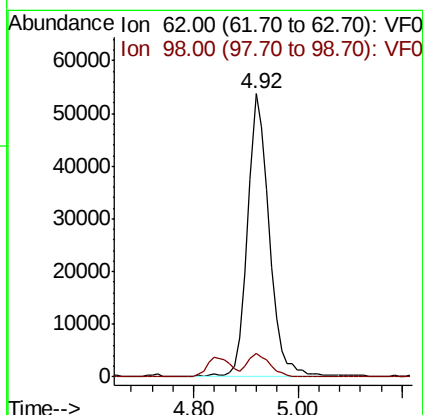
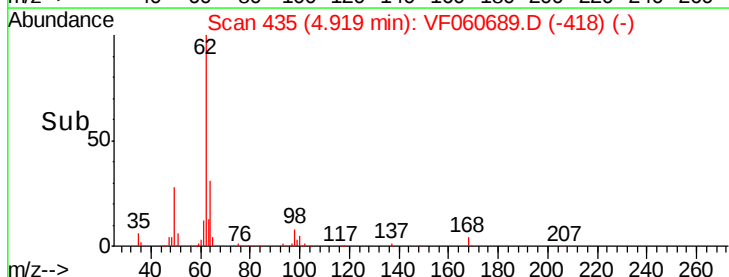
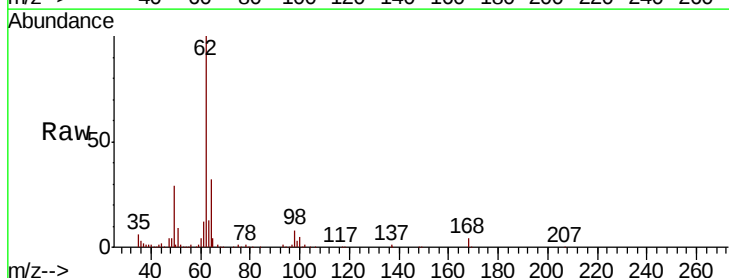
RT: 4.92 min Scan# 435

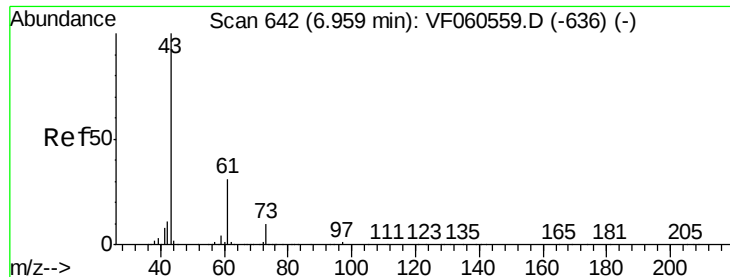
Delta R.T. -0.03 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.3	0.0	22.4	





#43

Isopropyl Acetate

Concen: 37.674 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

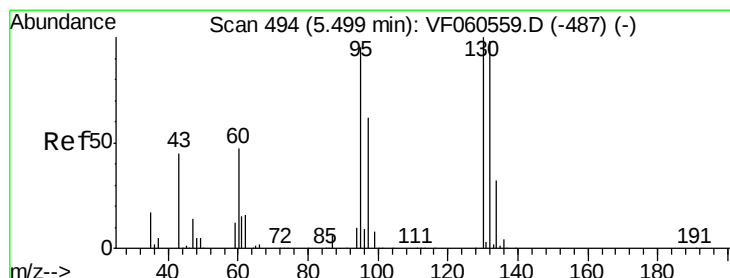
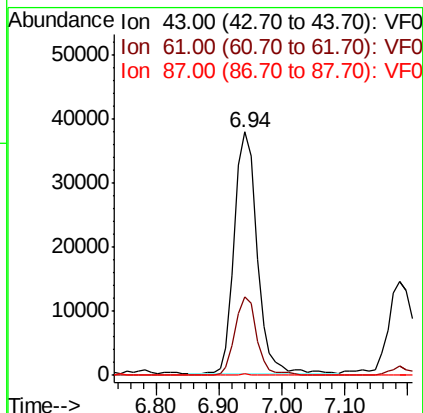
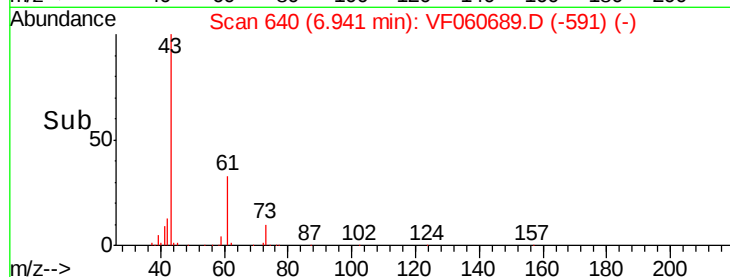
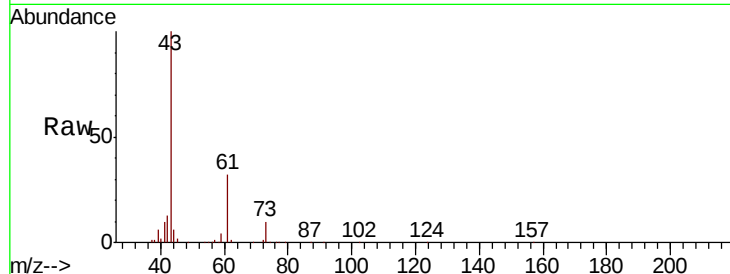
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	93717
Ion	Ratio	Lower	Upper
43	100		
61	32.2	24.2	36.2
87	0.5	0.2	0.4

Manual Integrations
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#44

Trichloroethene

Concen: 46.901 ug/l

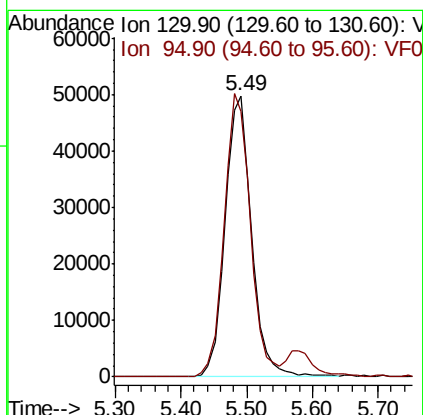
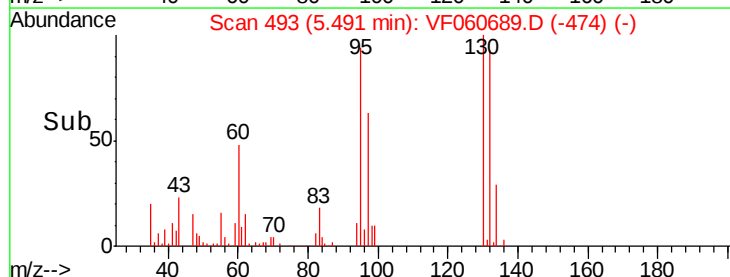
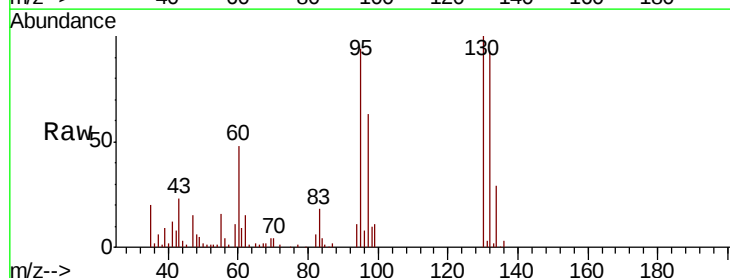
RT: 5.49 min Scan# 493

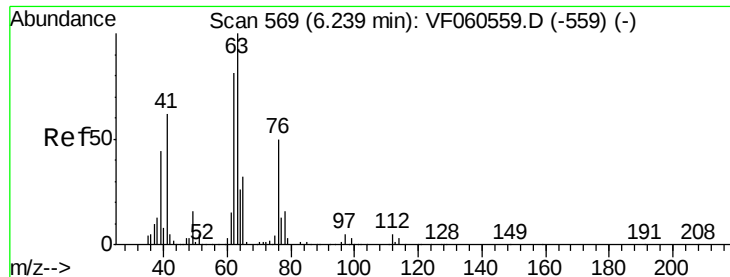
Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	130	Resp:	140170
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	191.0





#45

1,2-Dichloropropane

Concen: 46.107 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.03 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 117262

Ion Ratio Lower Upper

63 100

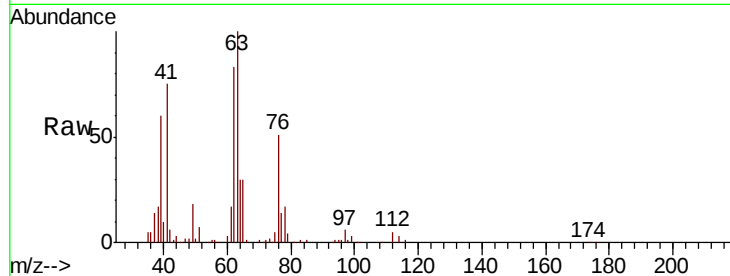
65 29.6 25.4 38.0

Manual Integrations

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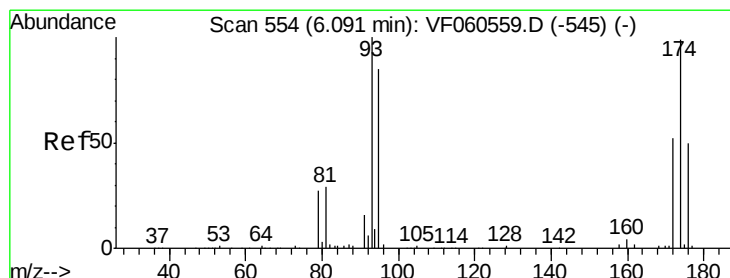
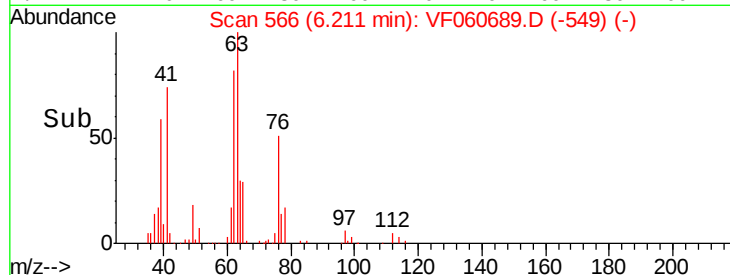
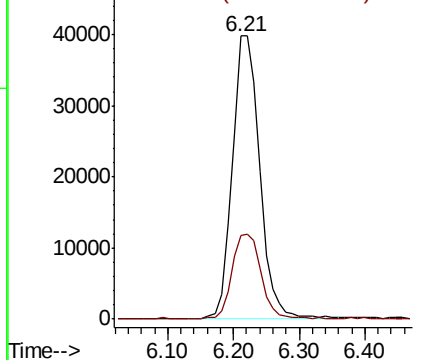
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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 49.225 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

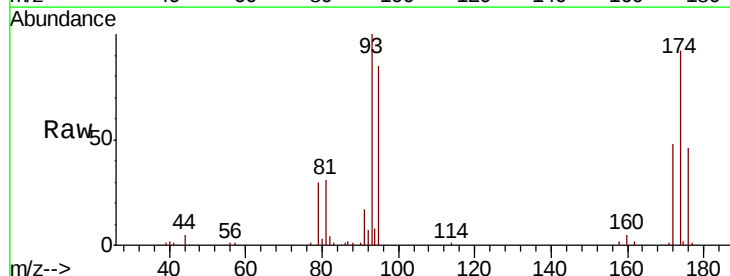
Tgt Ion: 93 Resp: 79423

Ion Ratio Lower Upper

93 100

95 85.4 68.6 102.8

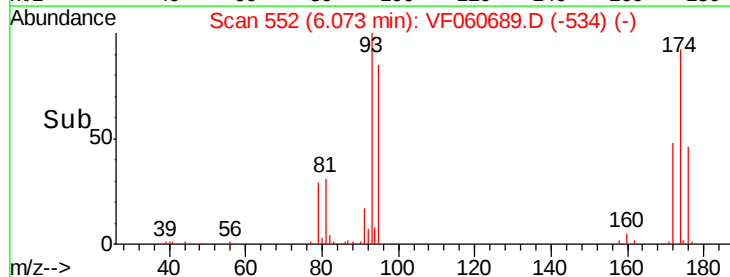
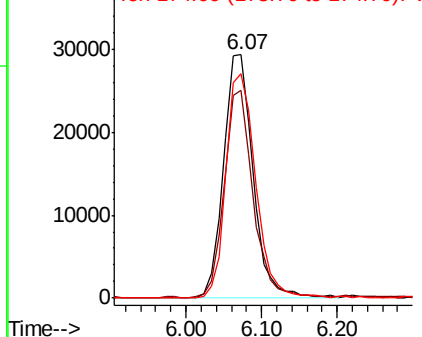
174 94.0 79.0 118.4

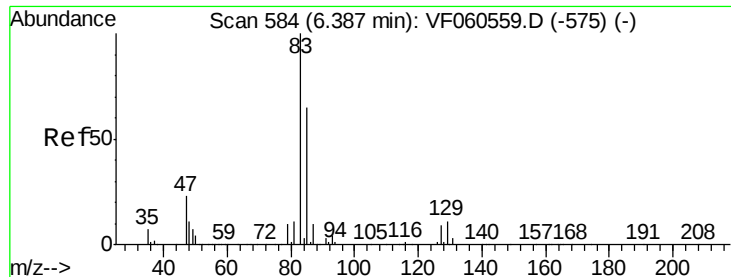


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 52.214 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

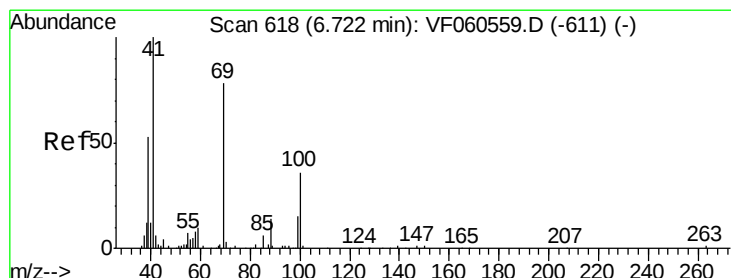
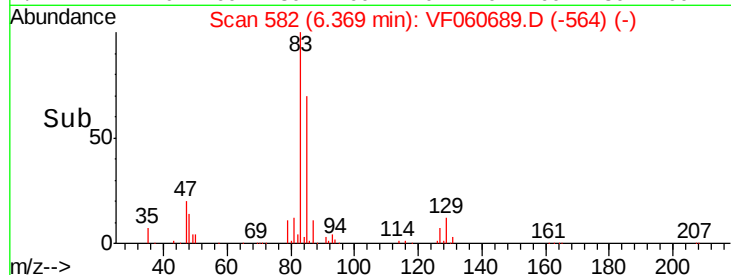
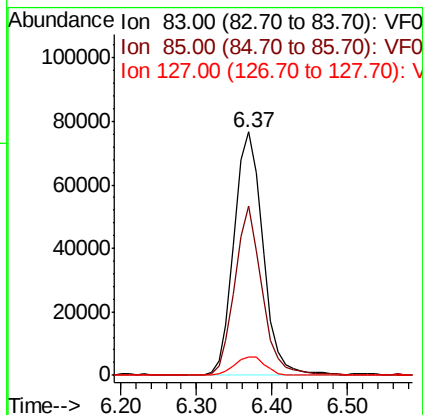
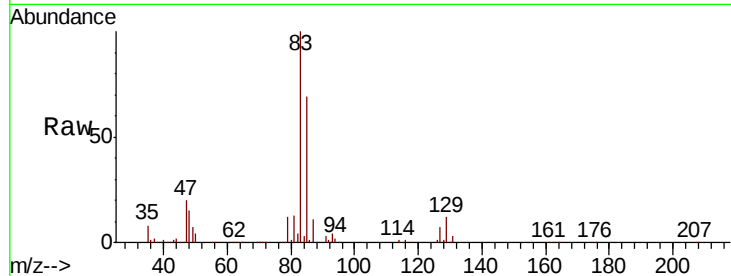
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	203203
Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.8	77.6
127	7.5	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 42.987 ug/l

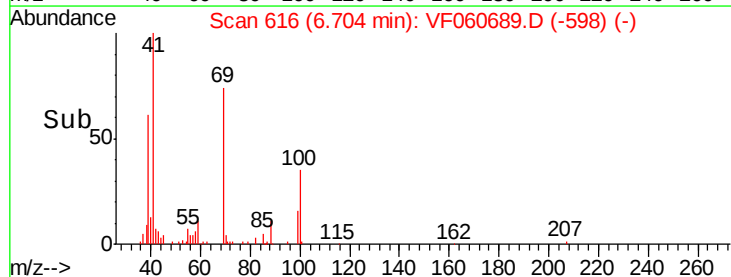
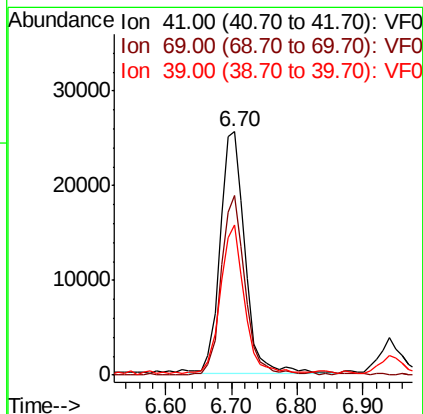
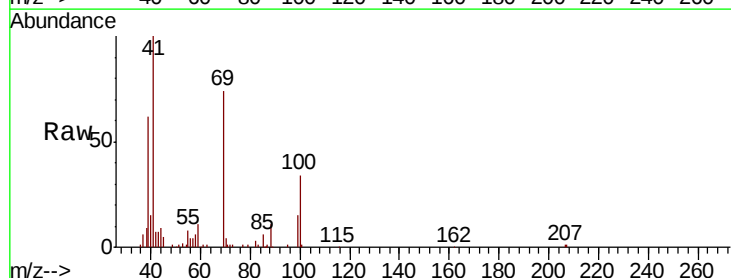
RT: 6.70 min Scan# 616

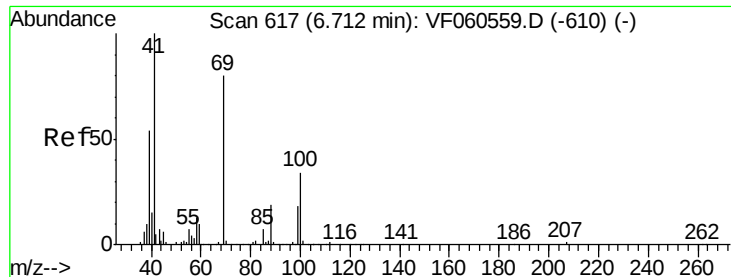
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	41	Resp:	67206
Ion	Ratio	Lower	Upper
41	100		
69	73.6	61.1	91.7
39	61.9	43.0	64.6





#49

1,4-Dioxane

Concen: 741.011 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

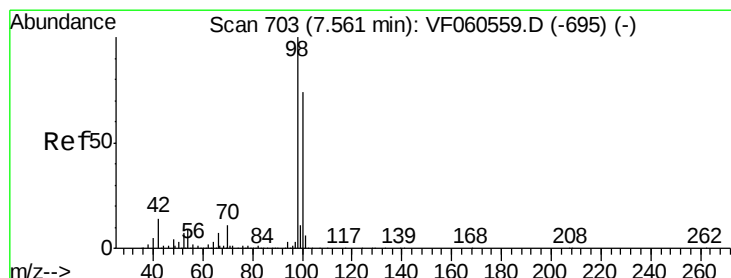
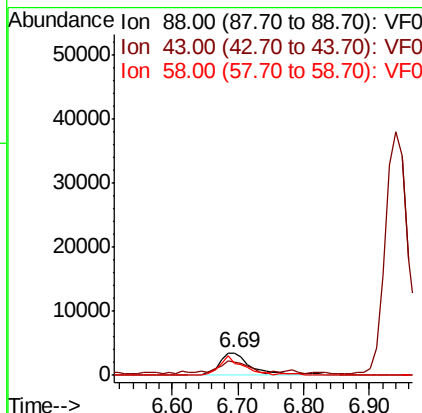
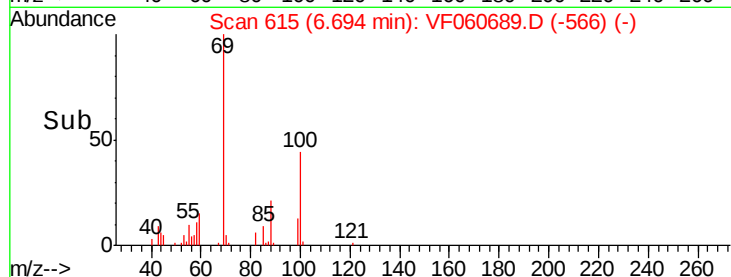
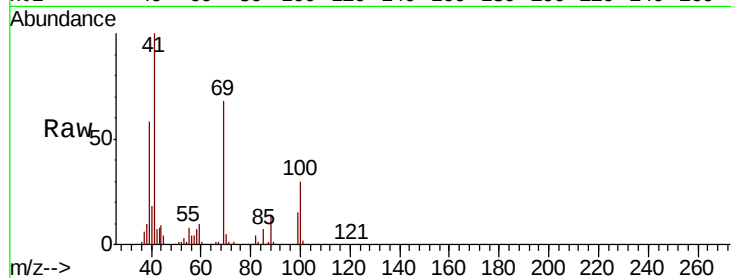
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	12119
Ion Ratio	Lower	Upper	
88	100		
43	56.8	61.2	91.8#
58	51.4	56.9	85.3#

Manual Integrations
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#50

Toluene-d8

Concen: 49.184 ug/l

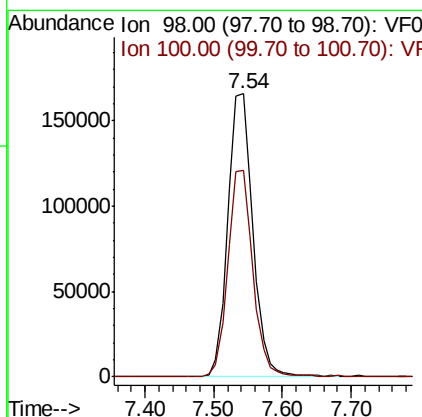
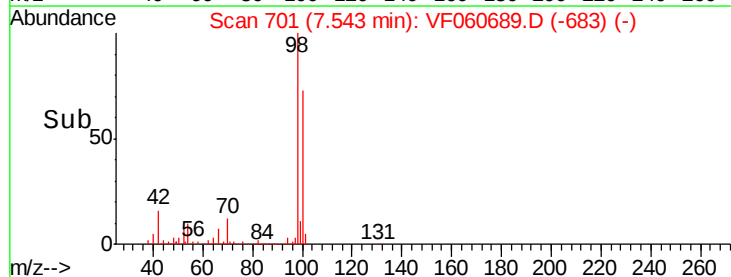
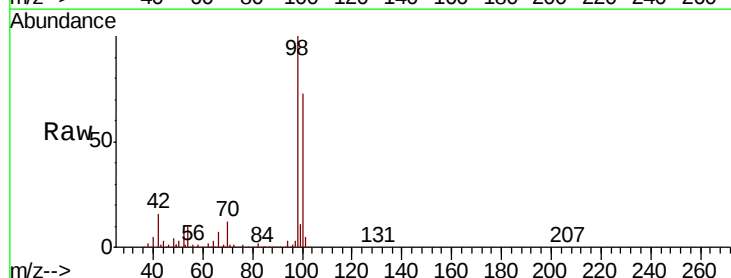
RT: 7.54 min Scan# 701

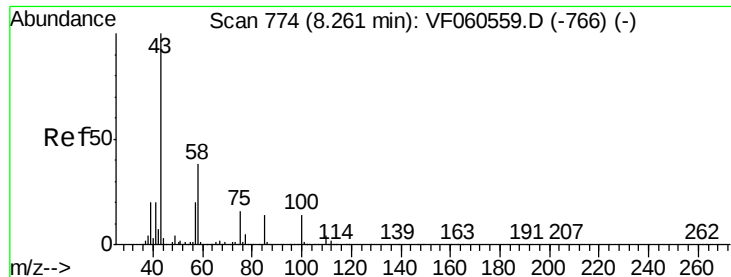
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	98	Resp:	418820
Ion Ratio	Lower	Upper	
98	100		
100	73.1	59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 200.703 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 335736

Ion Ratio Lower Upper

43 100

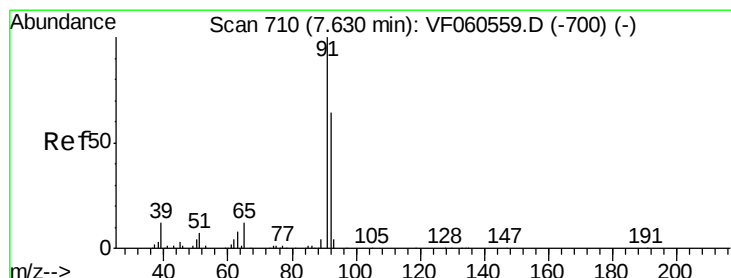
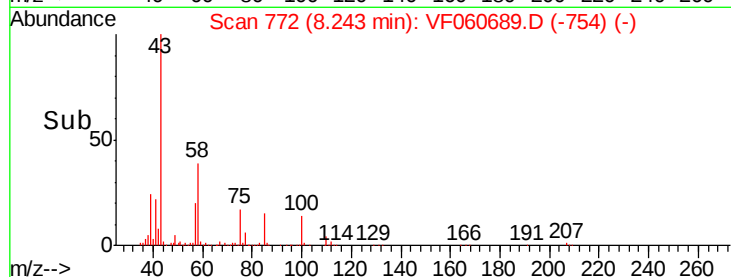
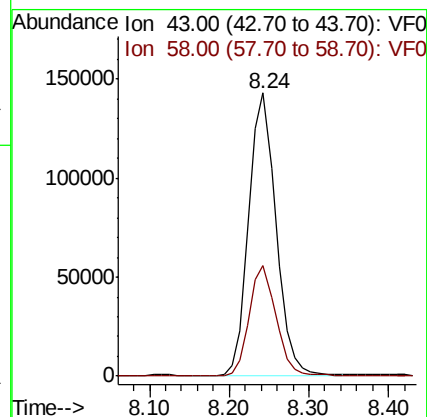
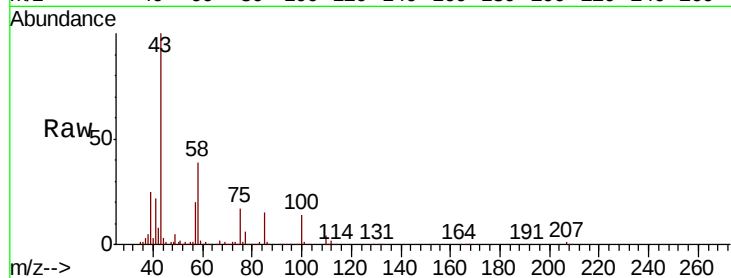
58 39.2 30.1 45.1

Manual Integrations

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#52

Toluene

Concen: 45.857 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060689.D

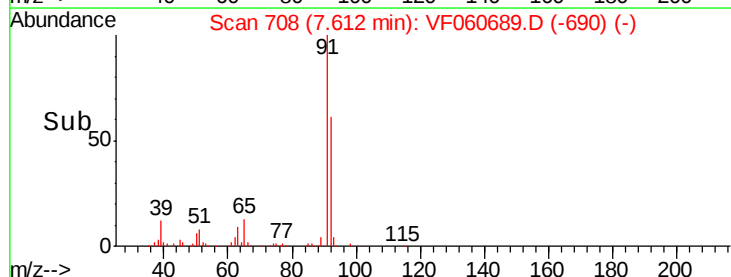
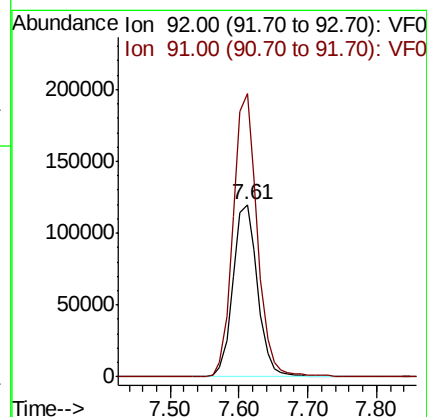
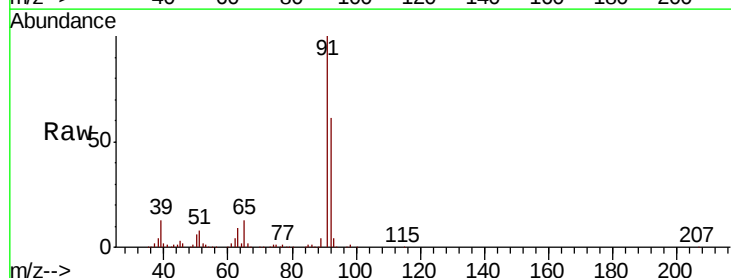
Acq: 12 Nov 2018 14:14

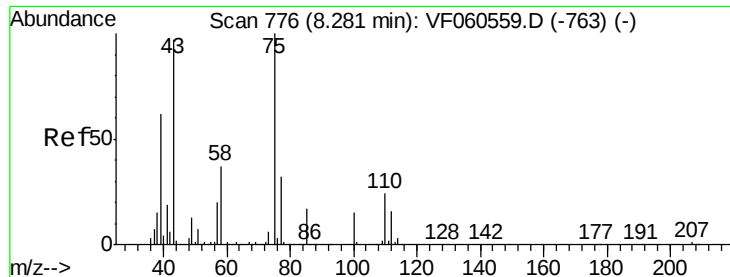
Tgt Ion: 92 Resp: 297050

Ion Ratio Lower Upper

92 100

91 164.3 124.5 186.7





#53

t-1,3-Dichloropropene

Concen: 46.631 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 157726

Ion Ratio Lower Upper

75 100

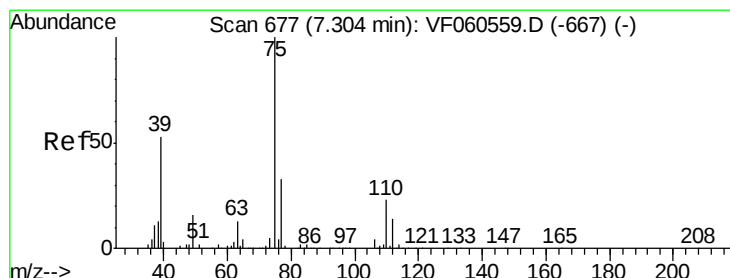
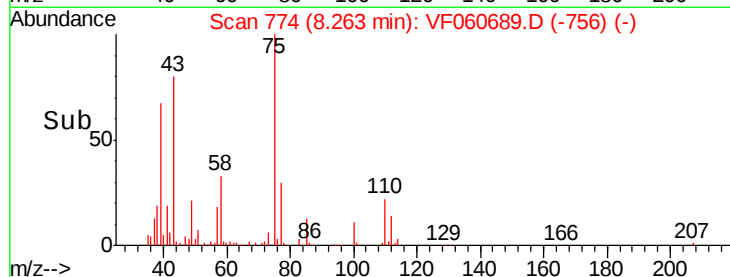
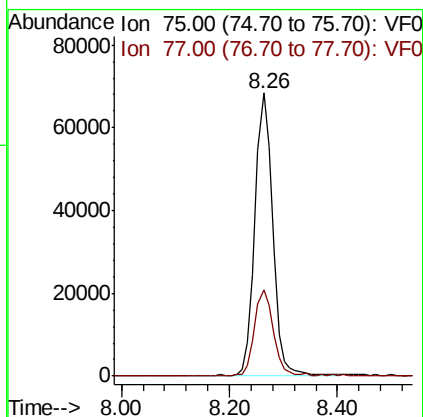
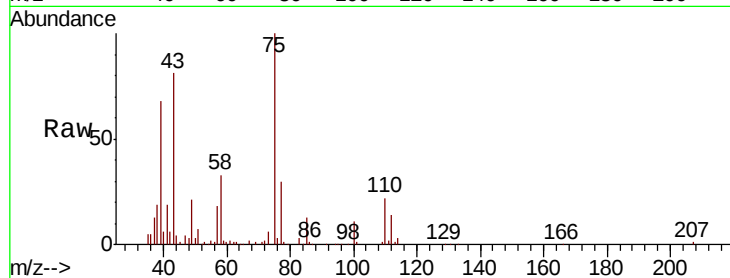
77 30.4 25.7 38.5

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 48.228 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

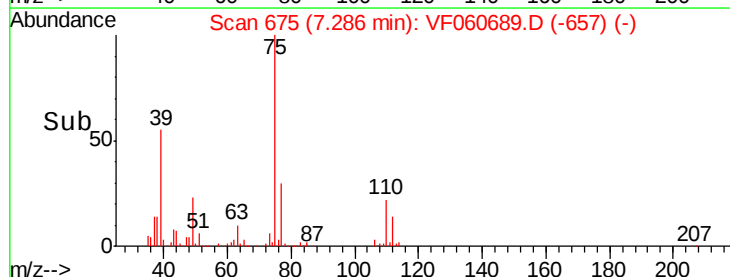
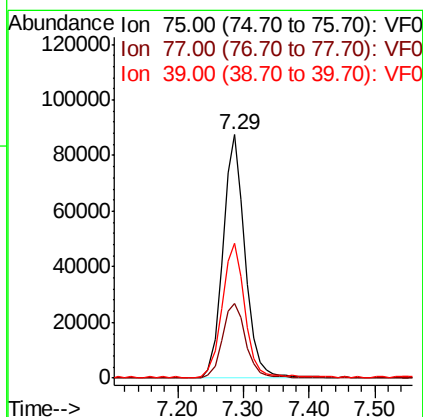
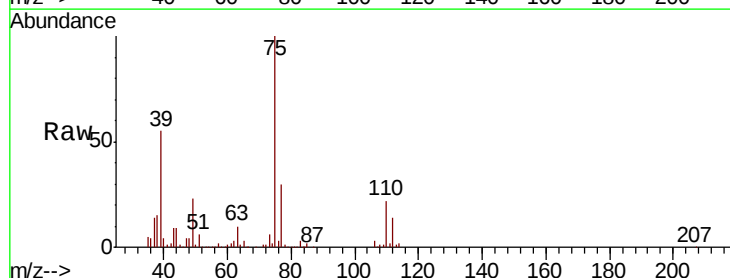
Tgt Ion: 75 Resp: 206104

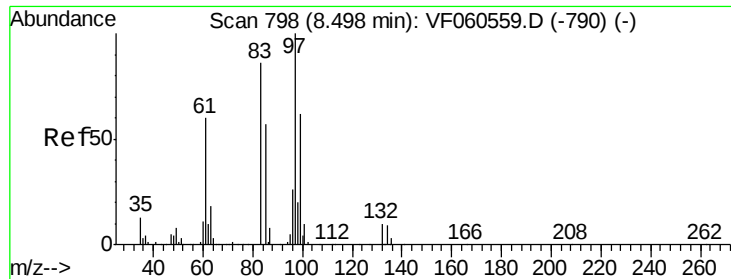
Ion Ratio Lower Upper

75 100

77 30.5 26.7 40.1

39 55.2 43.0 64.4





#55

1,1,2-Trichloroethane

Concen: 46.086 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

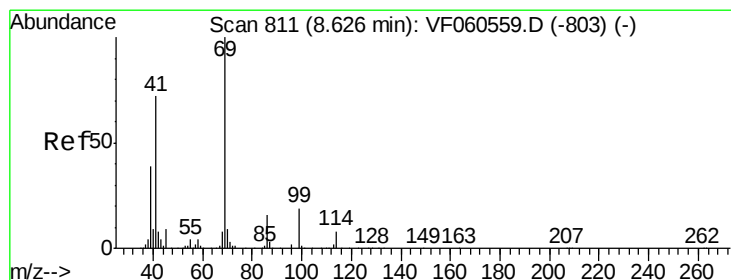
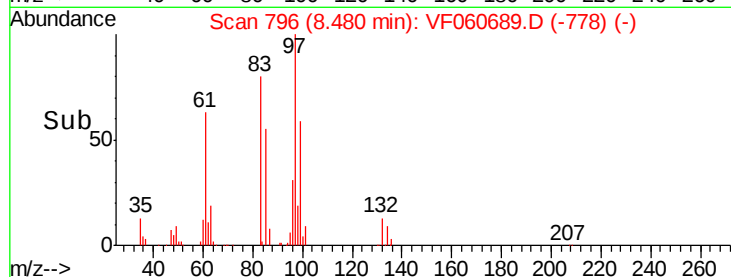
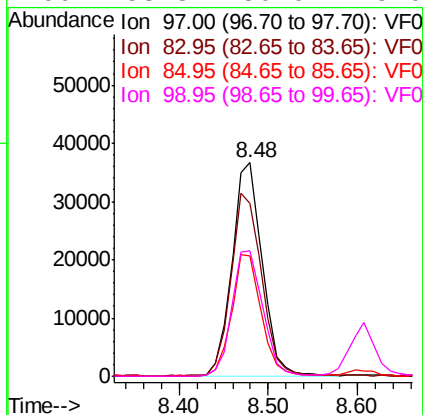
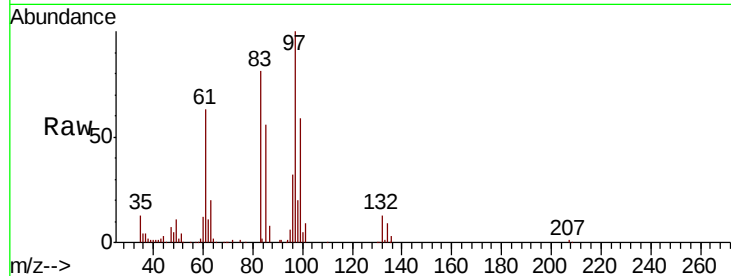
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	86872
Ion	Ratio	Lower	Upper
97	100		
83	81.0	69.4	104.0
85	56.3	46.6	69.8
99	58.8	50.0	75.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 41.241 ug/l

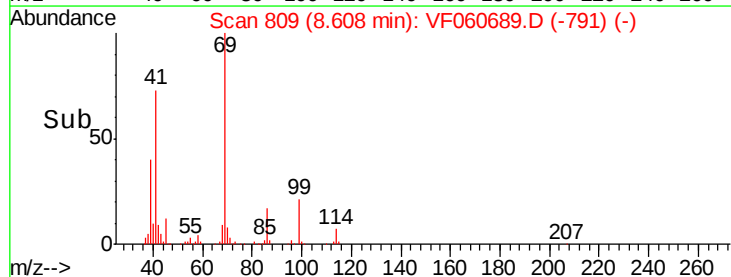
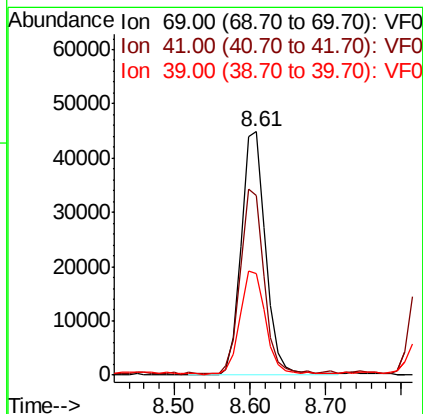
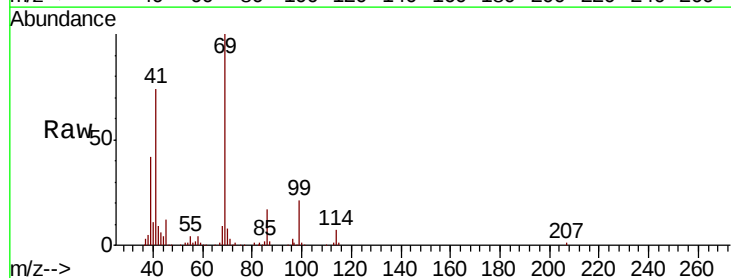
RT: 8.61 min Scan# 809

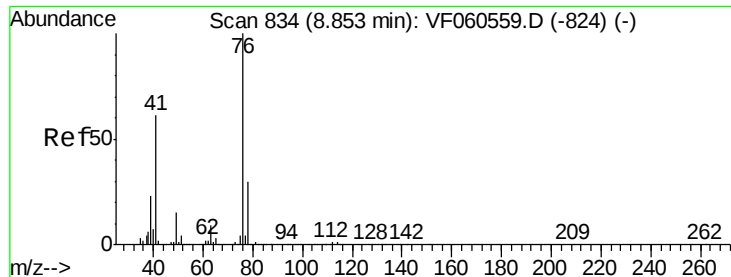
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	69	Resp:	100019
Ion	Ratio	Lower	Upper
69	100		
41	73.5	59.2	88.8
39	41.7	32.3	48.5





#57

1,3-Dichloropropane

Concen: 44.799 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 148173

Ion Ratio Lower Upper

76 100

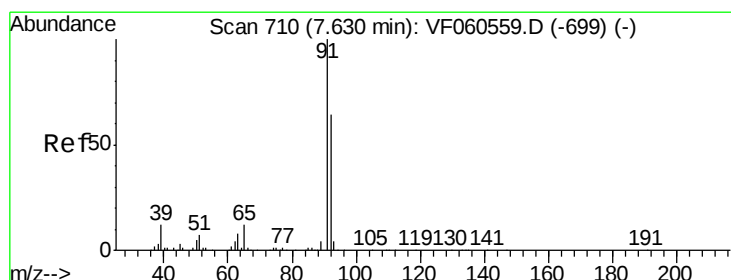
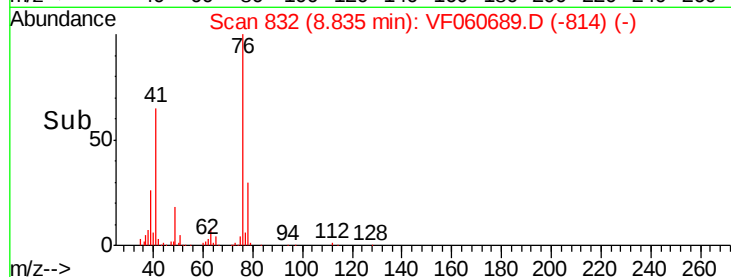
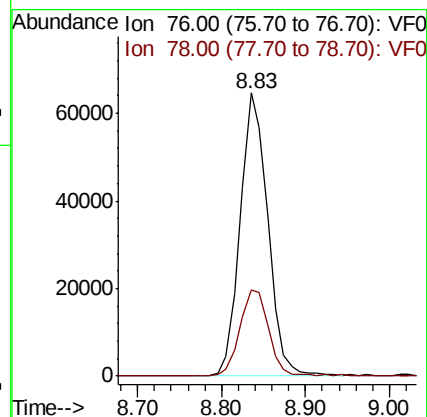
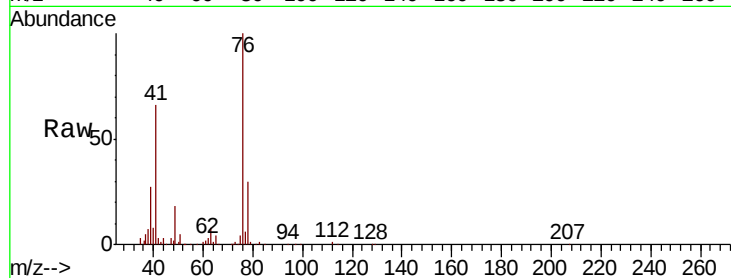
78 30.3 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

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#58

2-Chloroethyl Vinyl ether

Concen: 290.801 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060689.D

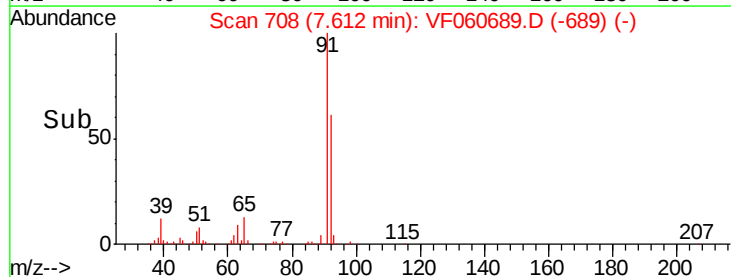
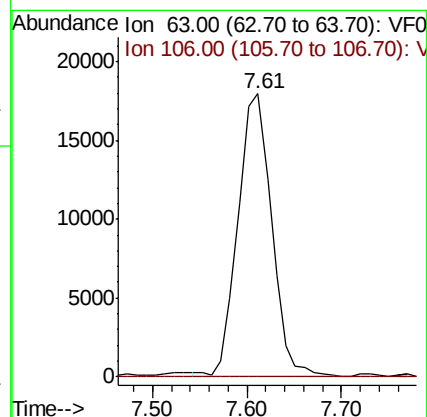
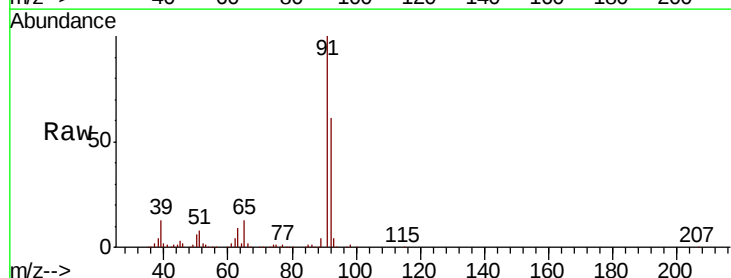
Acq: 12 Nov 2018 14:14

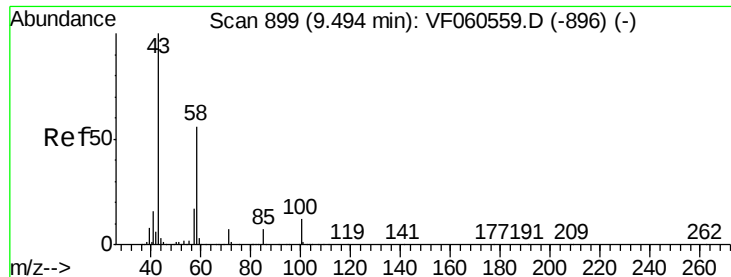
Tgt Ion: 63 Resp: 44584

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





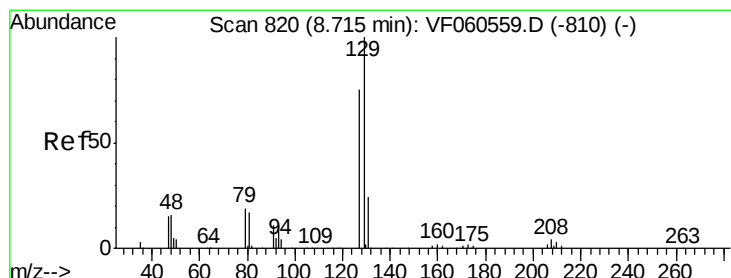
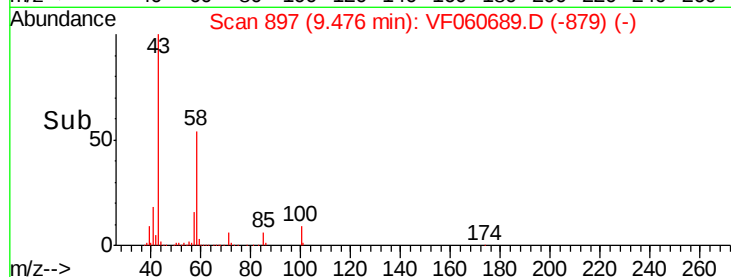
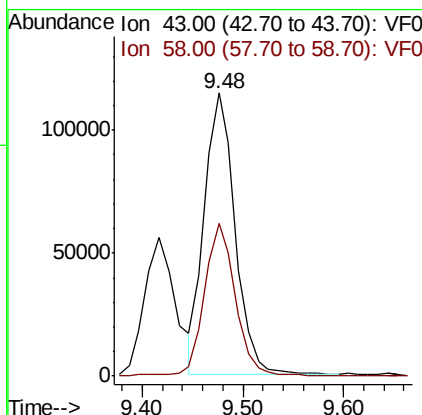
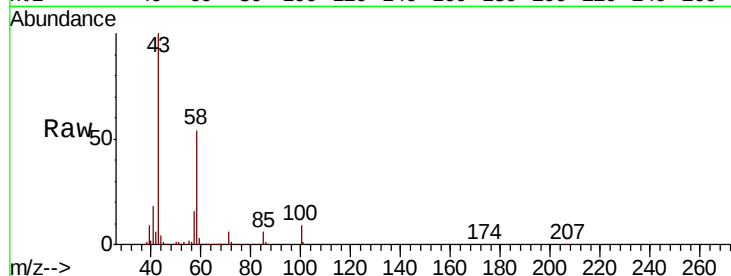
#59
2-Hexanone
Concen: 215.092 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.1	26.1	78.3

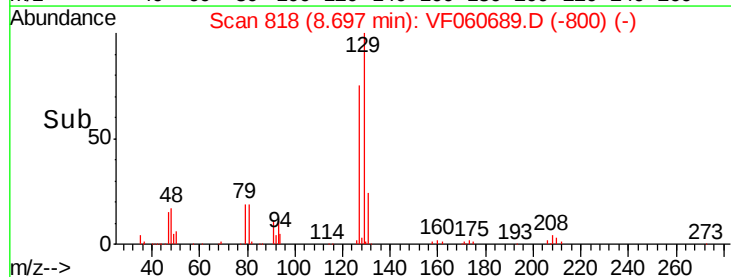
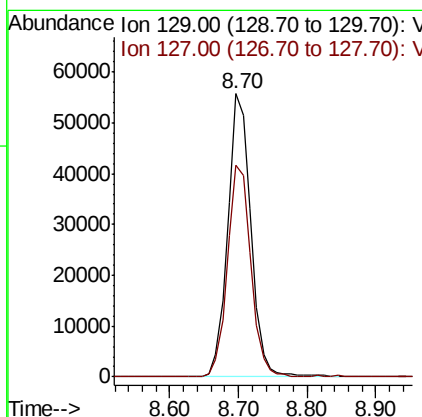
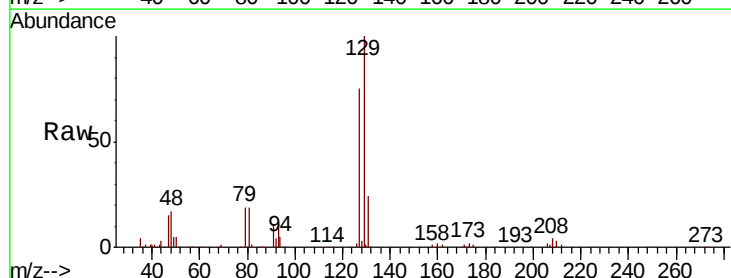
Manual Integrations
APPROVED

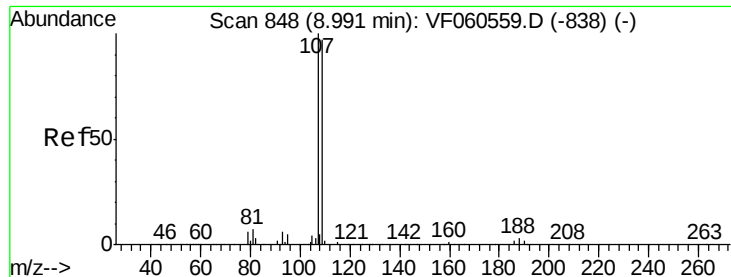
MMDadoda
11/13/2018 2:11:04 PM



#60
Dibromochloromethane
Concen: 48.897 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.0	37.8	113.3





#61

1,2-Dibromoethane

Concen: 45.807 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 90802

Ion Ratio Lower Upper

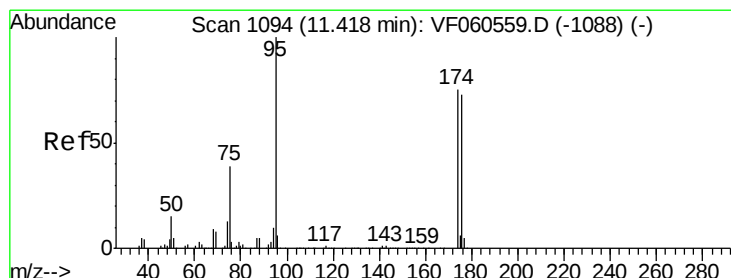
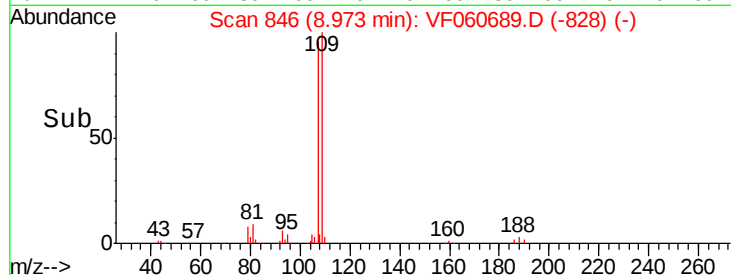
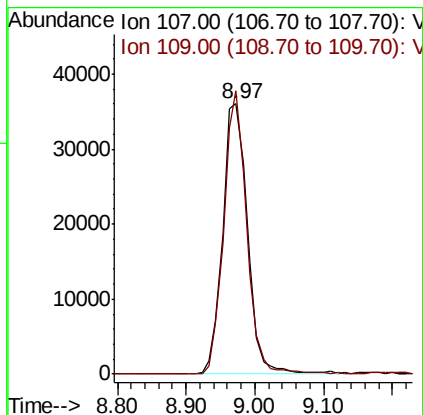
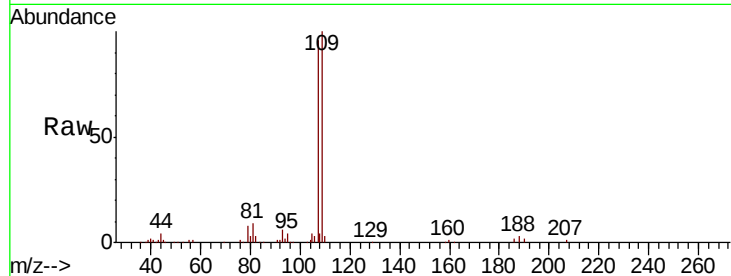
107 100

109 104.7 77.5 116.3

Manual Integrations
APPROVED

MMDadoda

11/13/2018 2:11:04 PM



#62

4-Bromofluorobenzene

Concen: 51.006 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

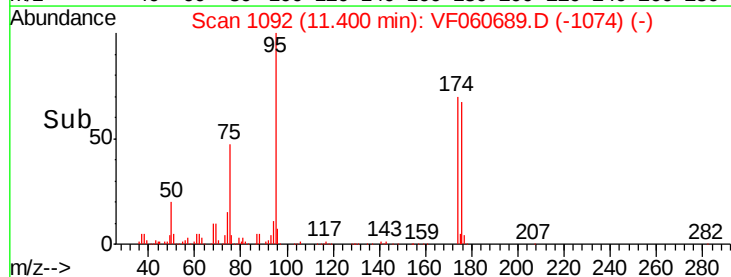
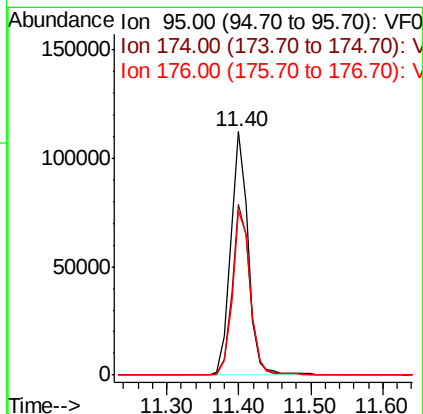
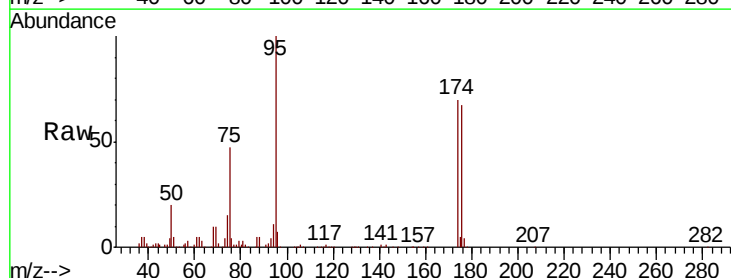
Tgt Ion: 95 Resp: 189987

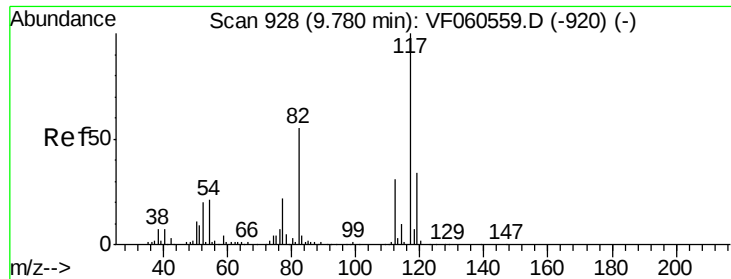
Ion Ratio Lower Upper

95 100

174 70.1 0.0 149.0

176 67.4 0.0 145.6





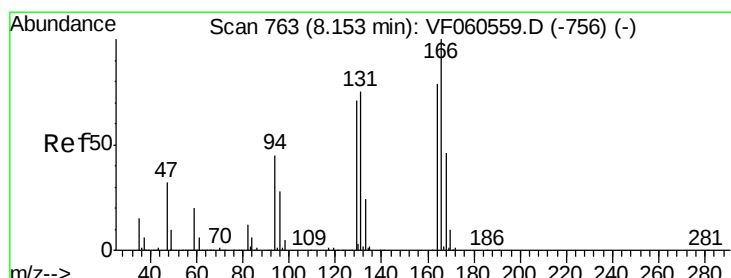
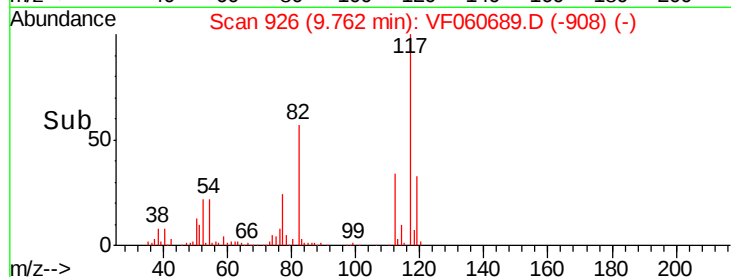
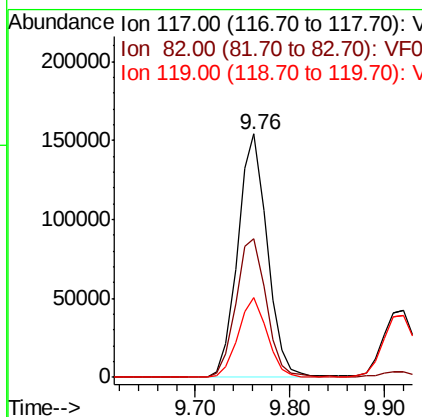
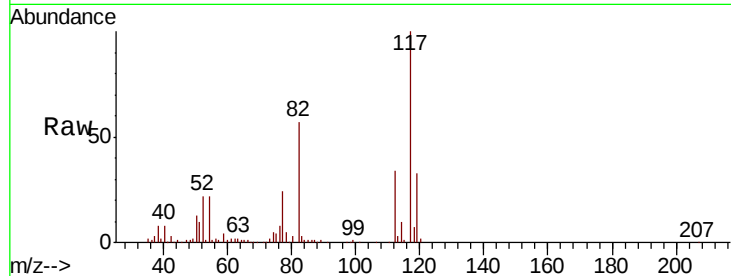
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	333639		
82	56.7		43.9	65.9
119	32.7		27.4	41.0

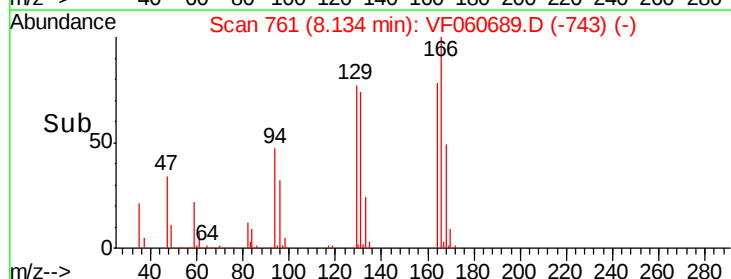
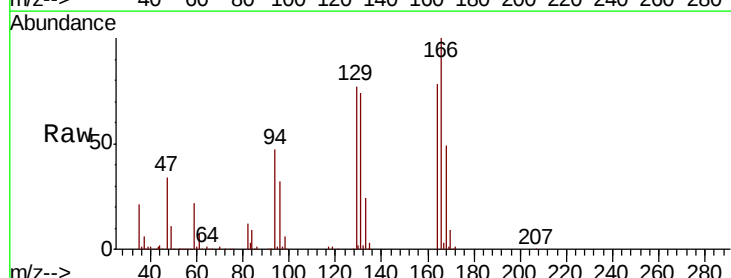
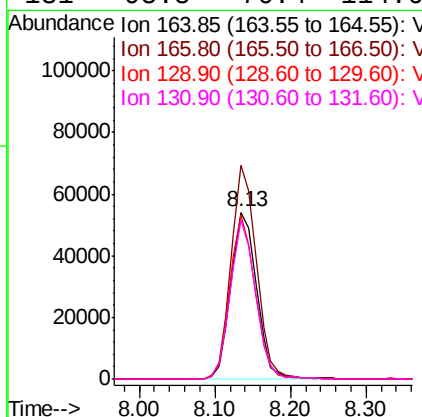
Manual Integrations
APPROVED

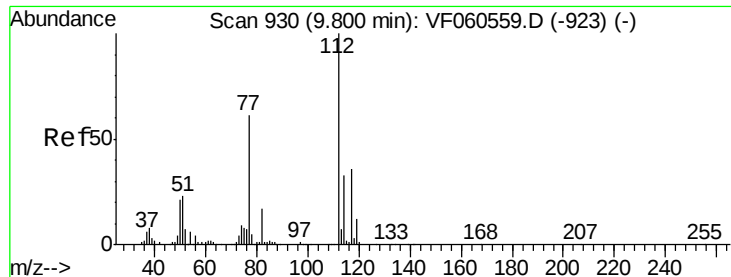
MMDadoda
11/13/2018 2:11:04 PM



#64
Tetrachloroethene
Concen: 48.582 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	127032		
166	128.3		101.5	152.3
129	98.6		72.5	108.7
131	95.5		76.4	114.6





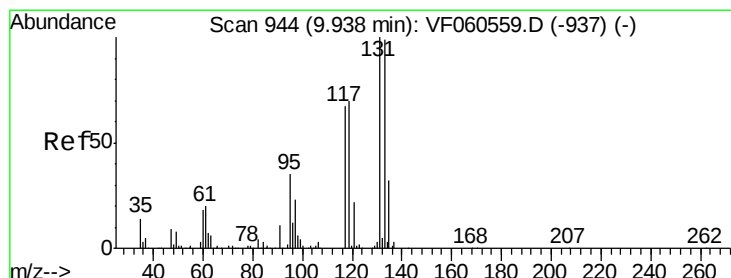
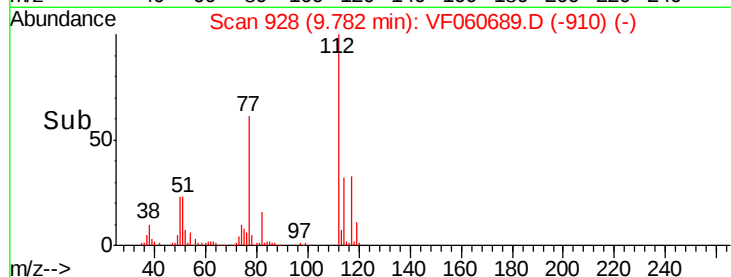
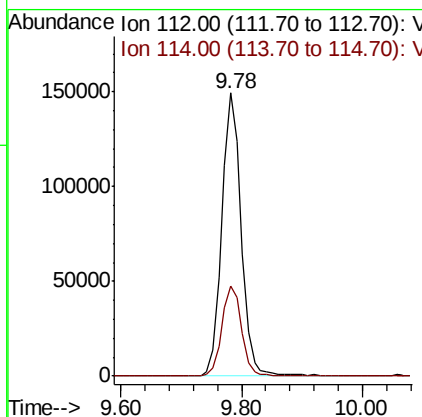
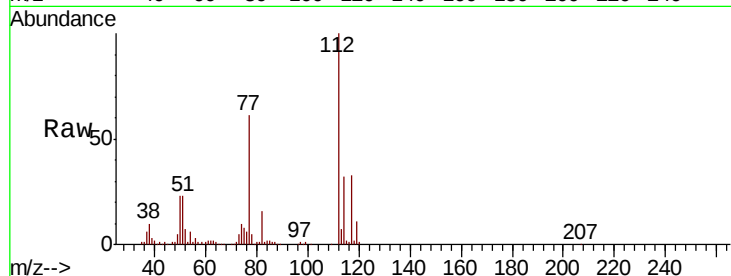
#65
Chlorobenzene
Concen: 48.643 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.6	40.0

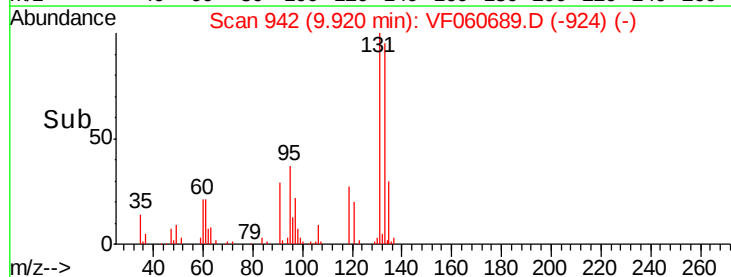
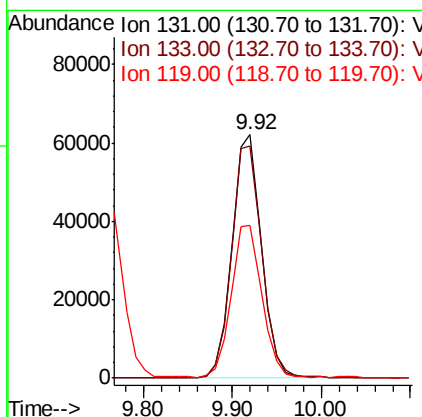
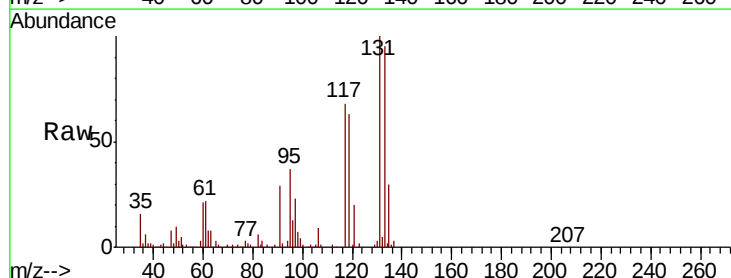
Manual Integrations
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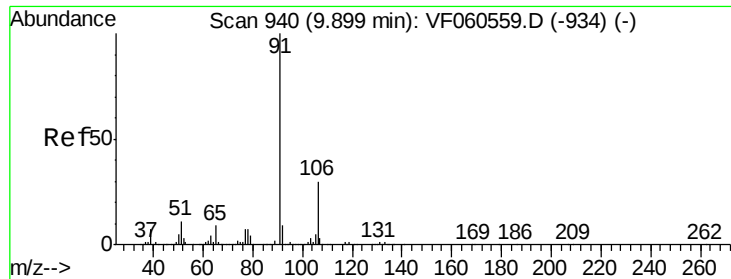
MMDadoda
11/13/2018 2:11:04 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.960 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	49.5	148.7
119	62.6	35.2	105.6





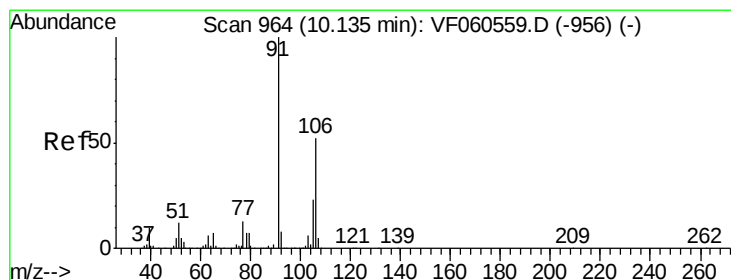
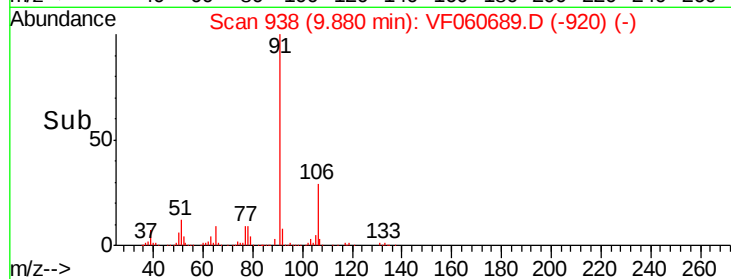
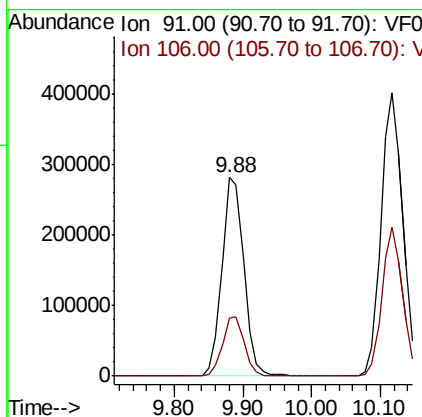
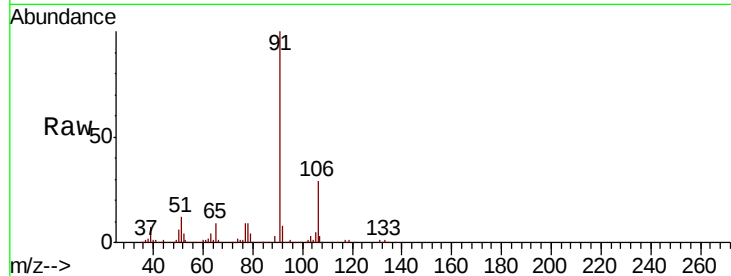
#67
Ethyl Benzene
Concen: 50.606 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 626577
Ion Ratio Lower Upper
91 100
106 29.2 24.2 36.4

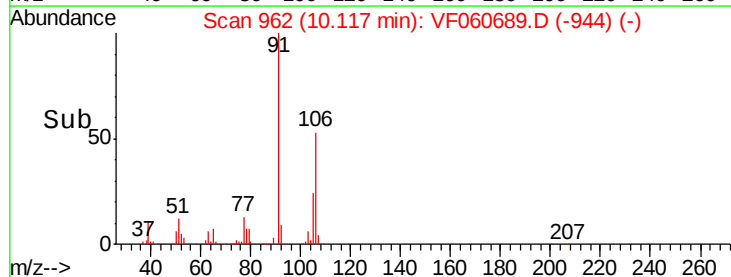
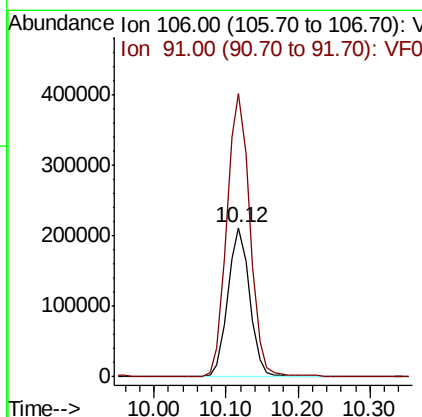
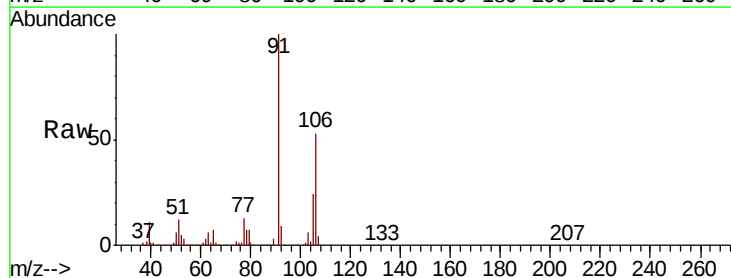
Manual Integrations
APPROVED

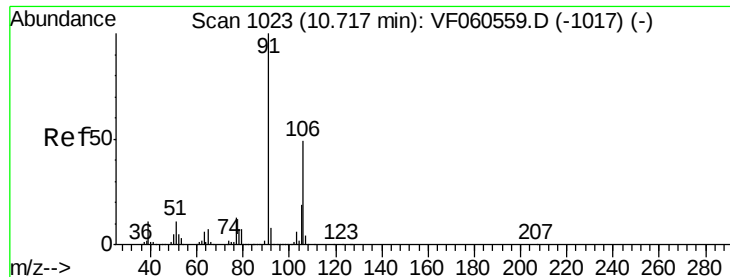
MMDadoda
11/13/2018 2:11:04 PM



#68
m/p-Xylenes
Concen: 96.591 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion: 106 Resp: 450494
Ion Ratio Lower Upper
106 100
91 189.7 153.9 230.9





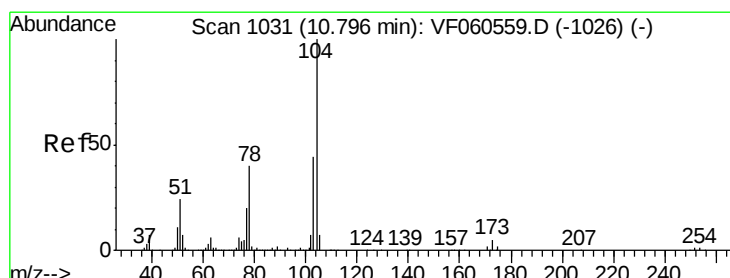
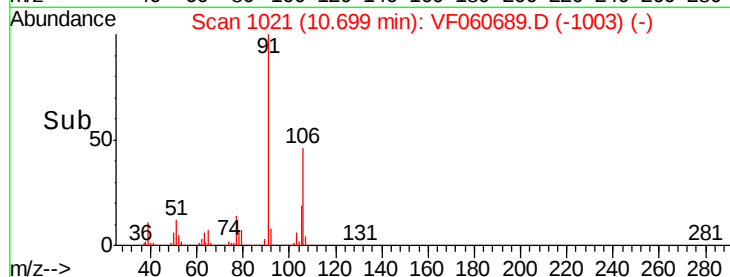
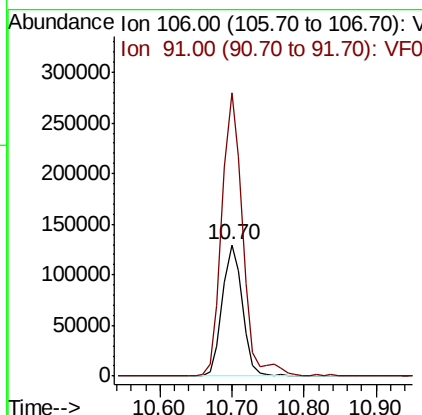
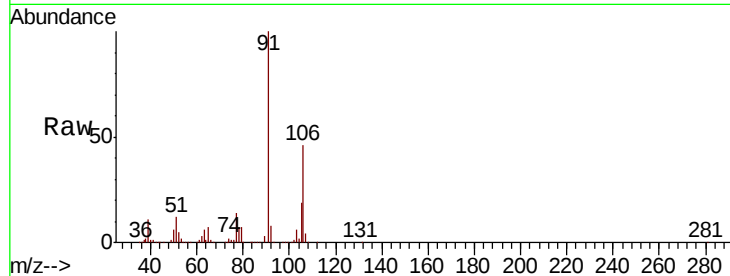
#69
o-Xylene
Concen: 49.158 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 250347
Ion Ratio Lower Upper
106 100
91 215.4 101.8 305.3

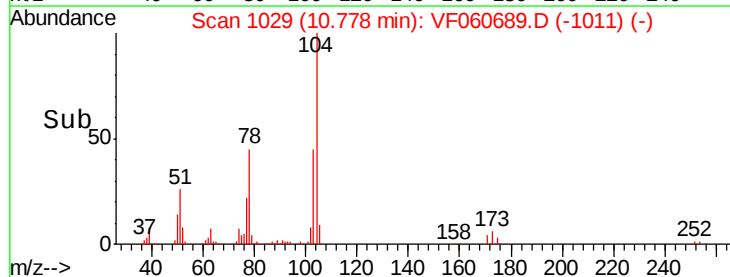
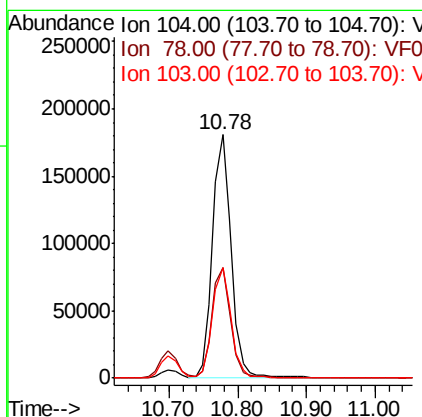
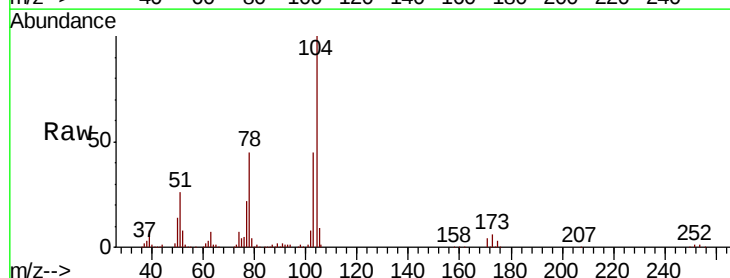
Manual Integrations
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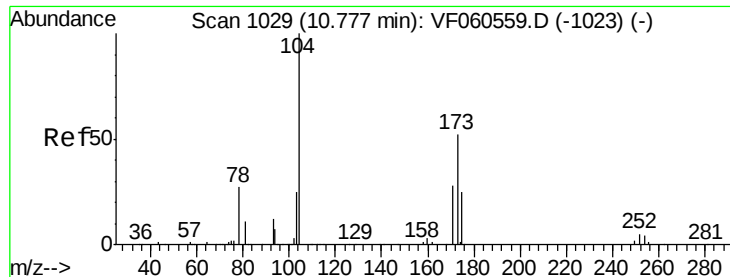
MMDadoda
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#70
Styrene
Concen: 46.067 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion:104 Resp: 339886
Ion Ratio Lower Upper
104 100
78 45.2 32.6 49.0
103 45.4 35.2 52.8





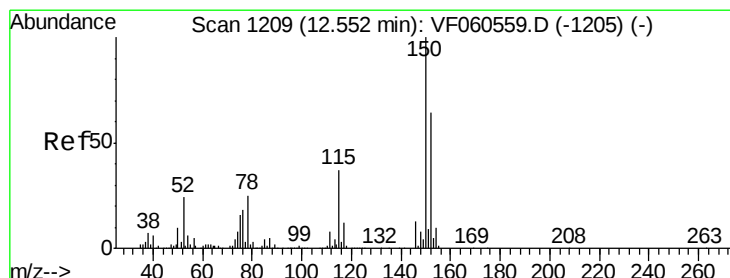
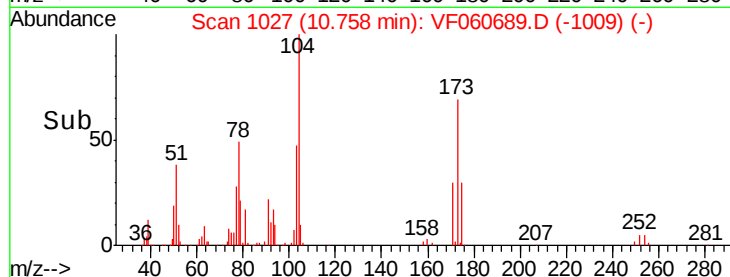
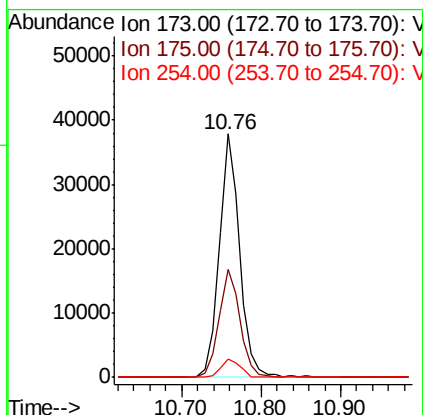
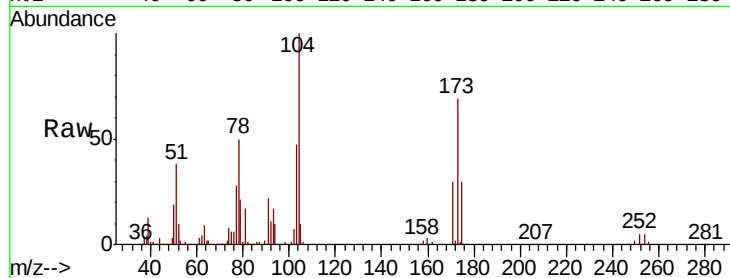
#71
Bromoform
Concen: 45.840 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.2	24.3	72.9
254	7.3	6.7	10.1

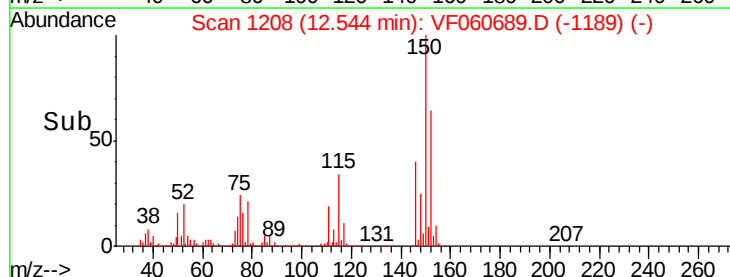
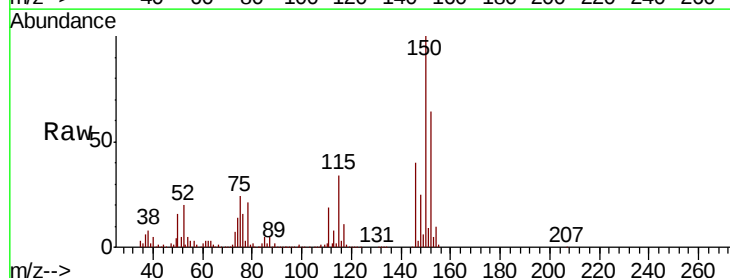
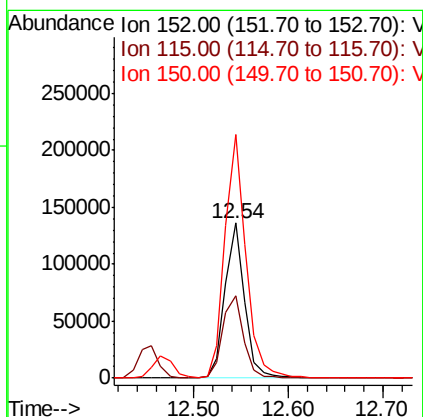
Manual Integrations
APPROVED

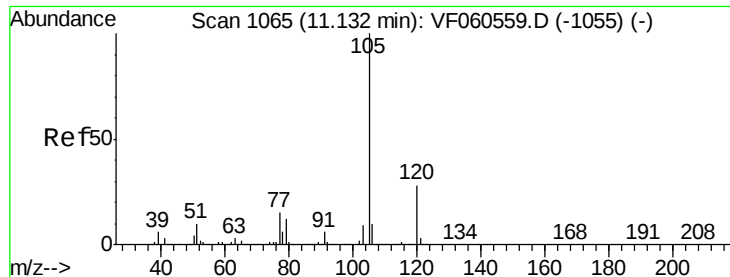
MMDadoda
11/13/2018 2:11:04 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.2	29.6	88.8
150	157.2	0.0	315.6





#73

Isopropylbenzene

Concen: 48.738 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 740542

Ion Ratio Lower Upper

105 100

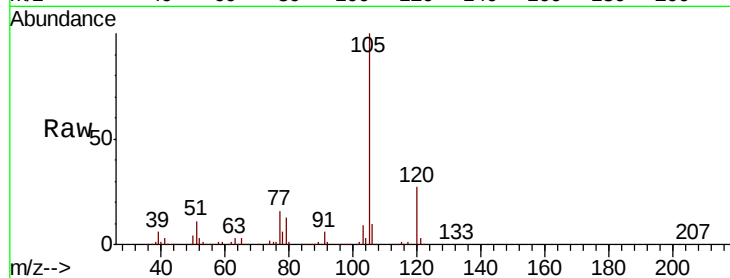
120 27.1 13.9 41.6

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

400000

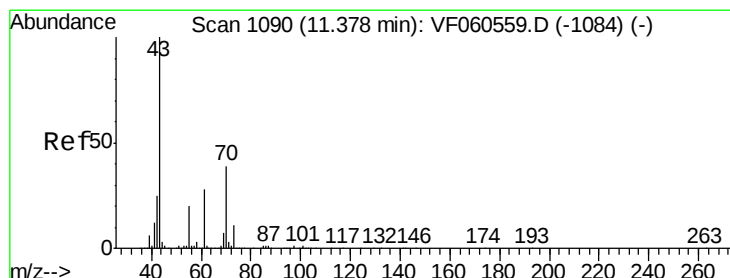
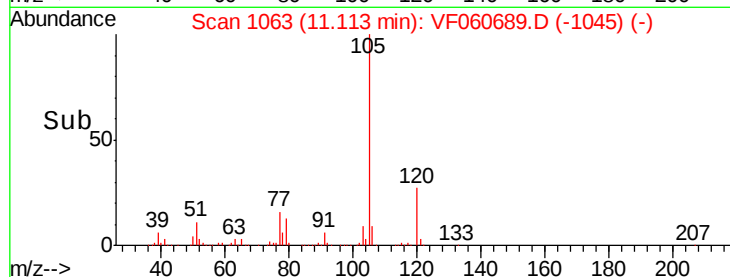
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 38.148 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion: 43 Resp: 150149

Ion Ratio Lower Upper

43 100

70 37.1 30.9 46.3

55 20.1 16.6 24.8

61 25.9 22.0 33.0

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

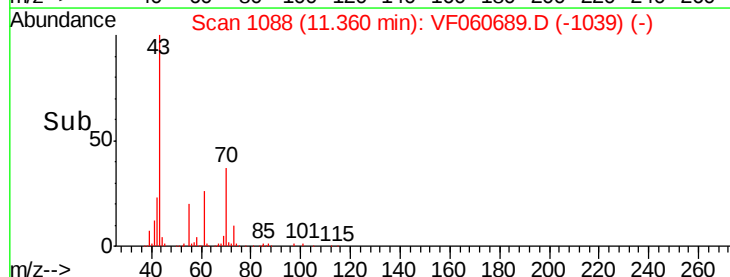
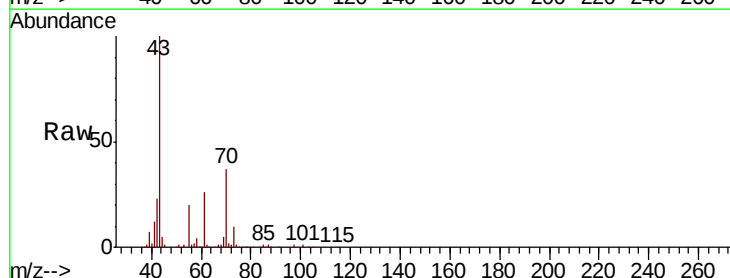
150000

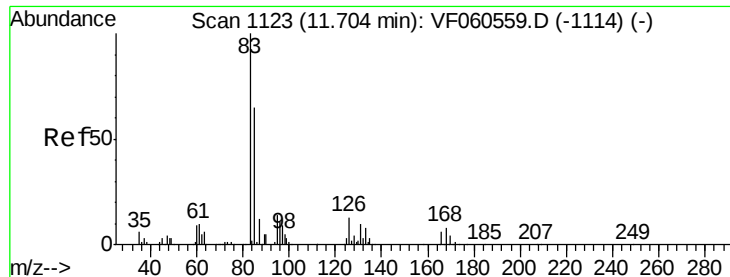
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 42.484 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

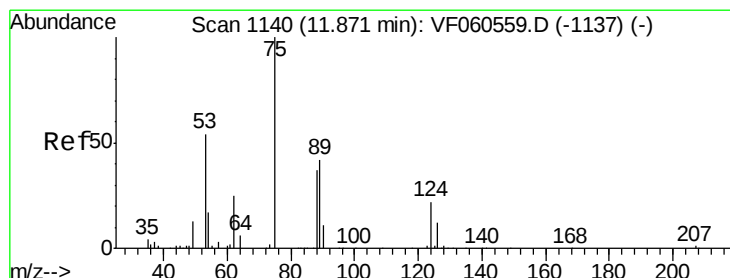
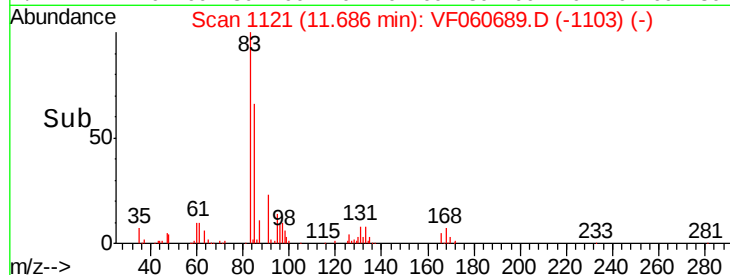
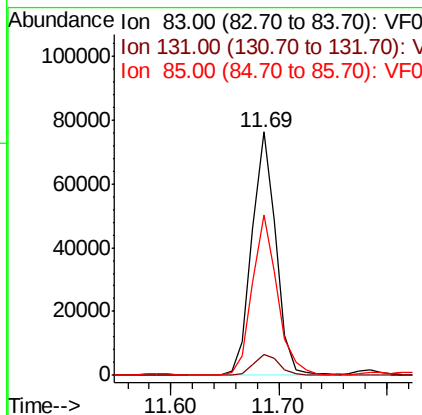
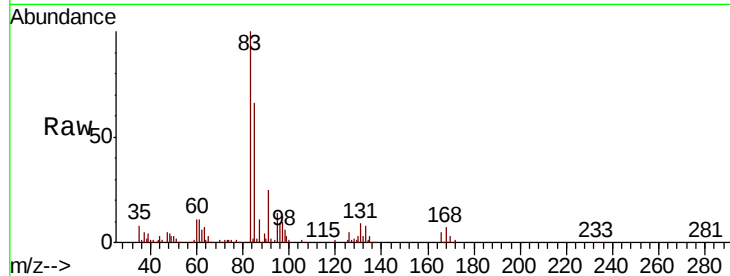
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	117824
Ion Ratio	Lower	Upper	
83	100		
131	8.7	5.0	14.9
85	66.0	32.9	98.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 41.936 ug/l

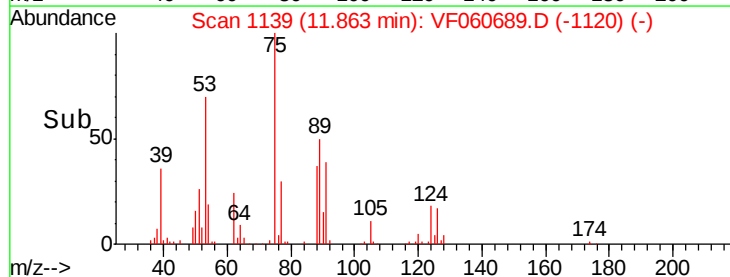
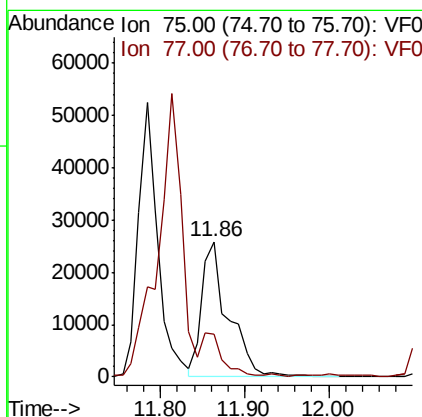
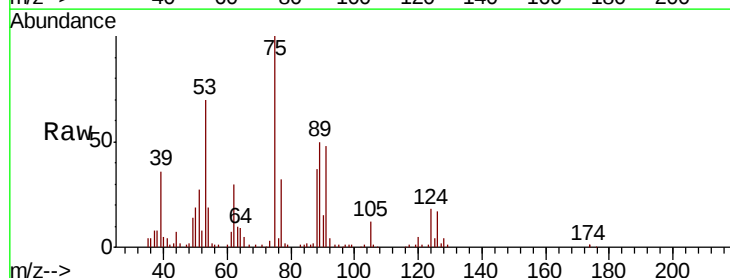
RT: 11.86 min Scan# 1139

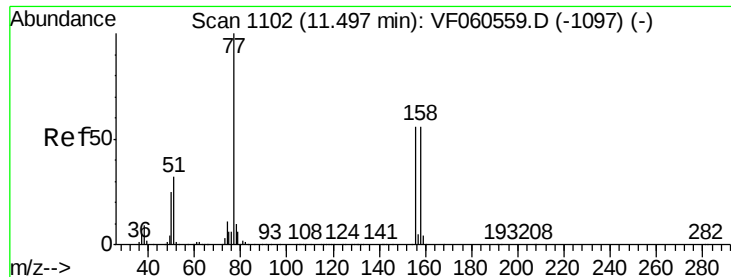
Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	75	Resp:	57158
Ion Ratio	Lower	Upper	
75	100		
77	31.9	17.4	52.3





#77

Bromobenzene

Concen: 45.351 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

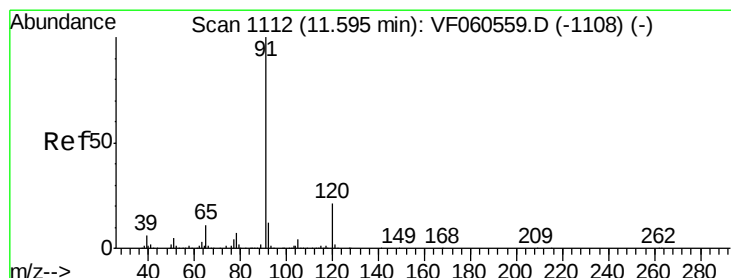
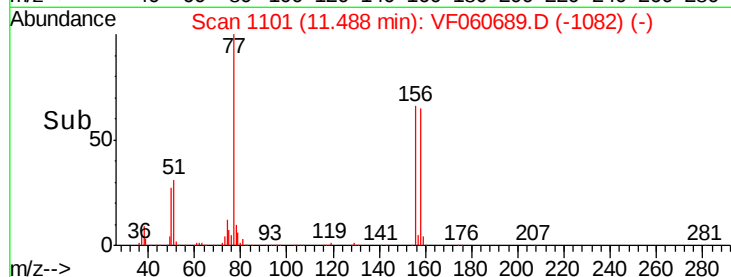
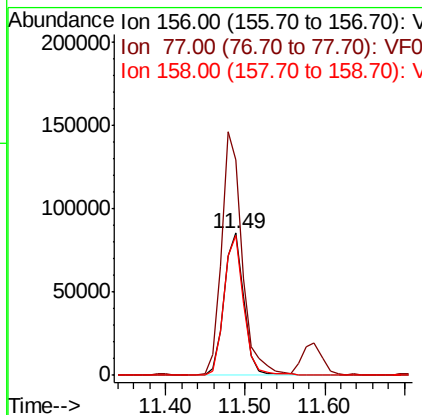
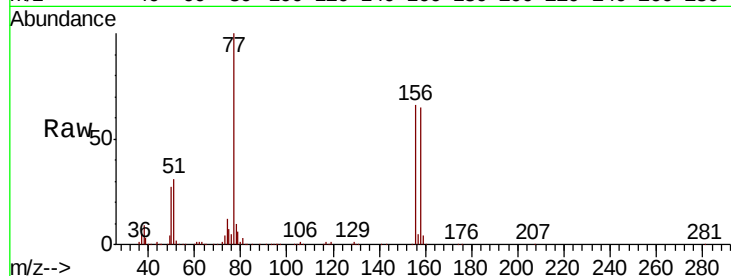
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	151.7	89.3	268.1
158	98.1	50.0	150.1

Manual Integrations
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#78

n-propylbenzene

Concen: 47.028 ug/l

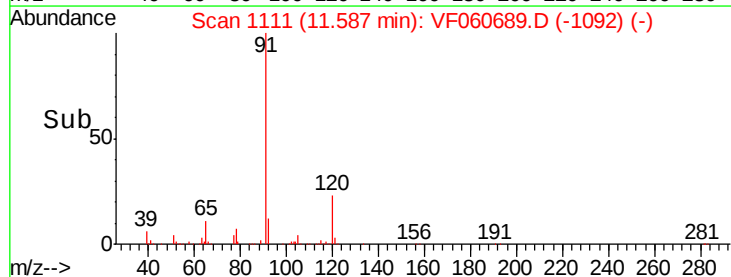
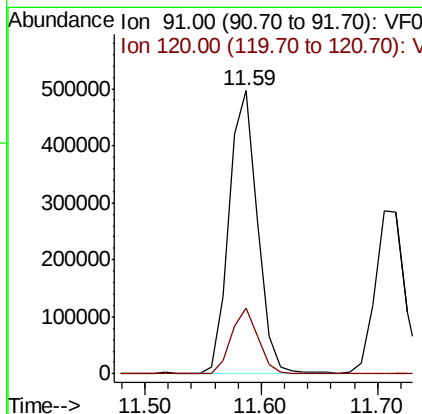
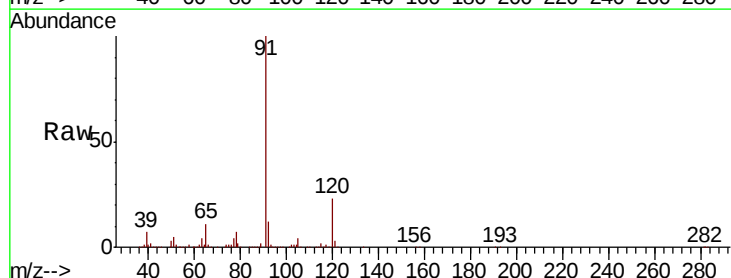
RT: 11.59 min Scan# 1111

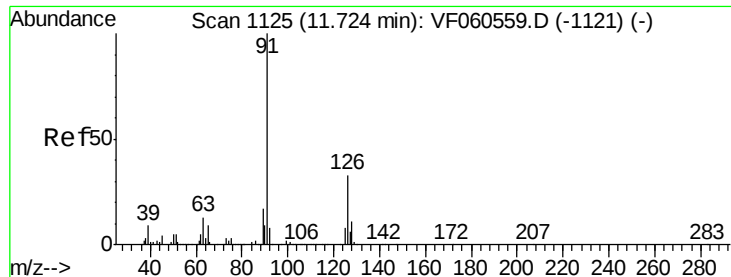
Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.2	10.5	31.6





#79

2-Chlorotoluene

Concen: 48.591 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 493329

Ion Ratio Lower Upper

91 100

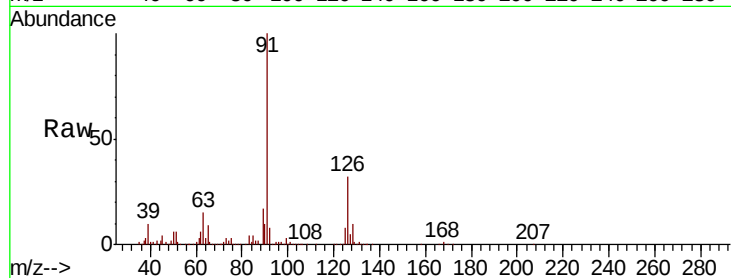
126 31.7 16.5 49.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VF060559.D (-1121) (-)

Ion 126.00 (125.70 to 126.70): VF060559.D (-1121) (-)

11.71

300000

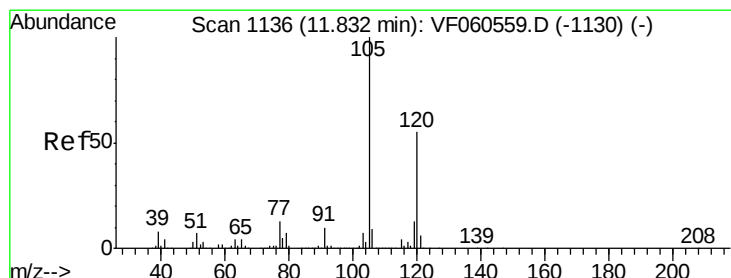
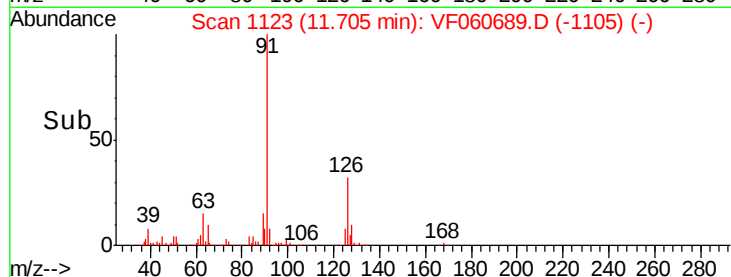
200000

100000

0

11.65 11.70 11.75 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 46.797 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF060689.D

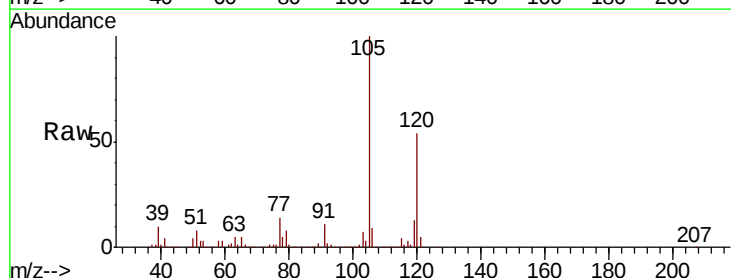
Acq: 12 Nov 2018 14:14

Tgt Ion: 105 Resp: 586097

Ion Ratio Lower Upper

105 100

120 53.7 27.6 82.8



Abundance Ion 105.00 (104.70 to 105.70): VF060559.D (-1130) (-)

Ion 120.00 (119.70 to 120.70): VF060559.D (-1130) (-)

11.81

400000

300000

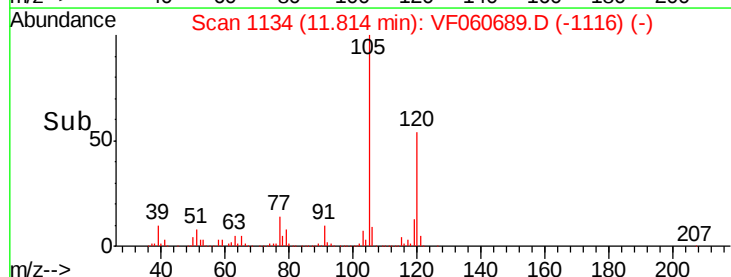
200000

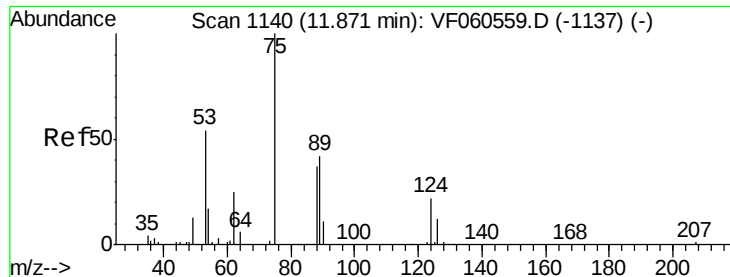
100000

0

11.70 11.80 11.90 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 42.550 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

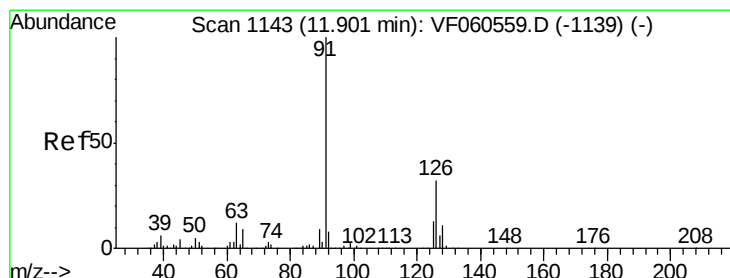
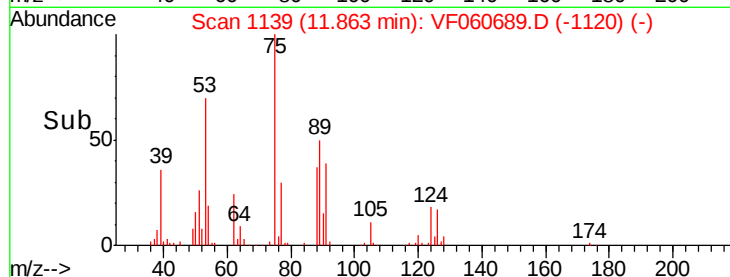
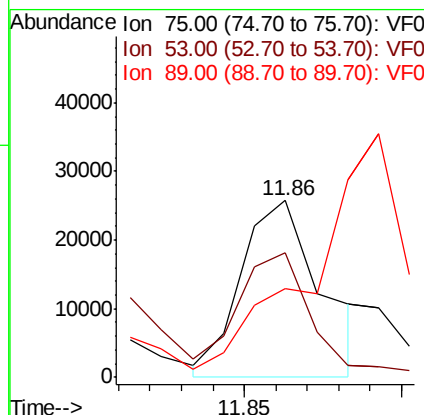
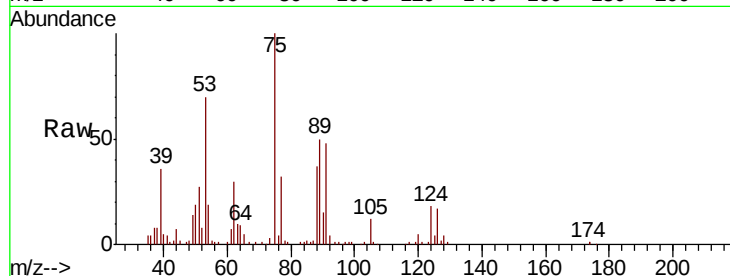
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	45579
Ion	Ratio	Lower	Upper
75	100		
53	70.2	51.6	77.4
89	50.3	36.7	55.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 46.800 ug/l

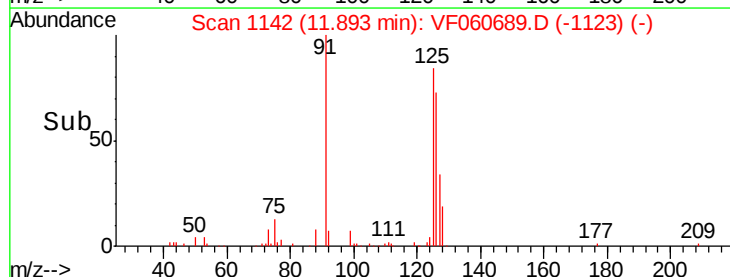
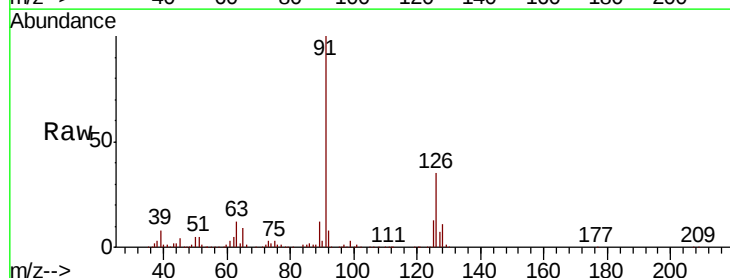
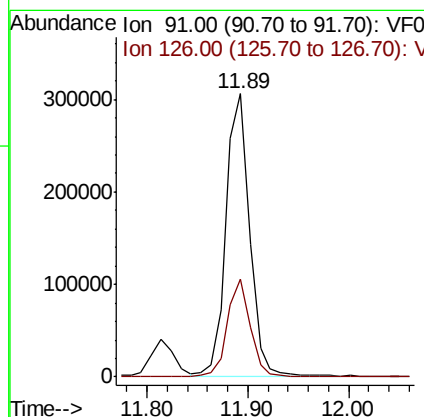
RT: 11.89 min Scan# 1142

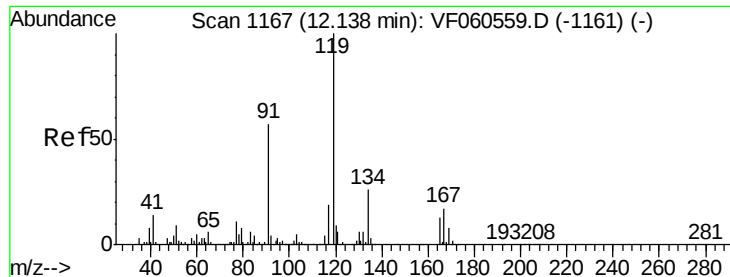
Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion:	91	Resp:	495721
Ion	Ratio	Lower	Upper
91	100		
126	34.5	15.9	47.7





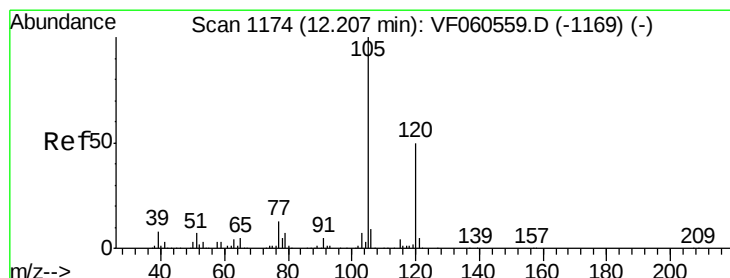
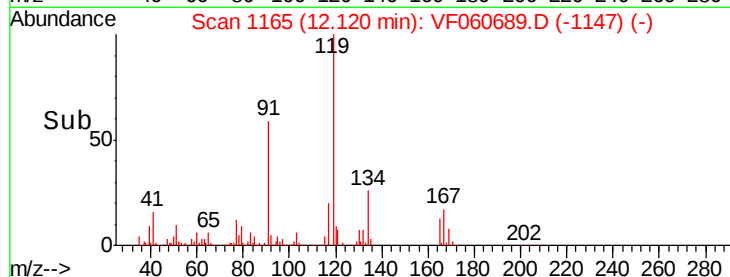
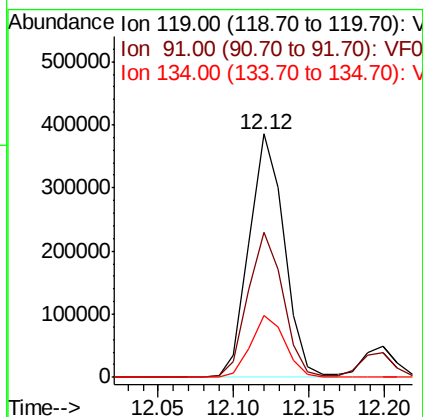
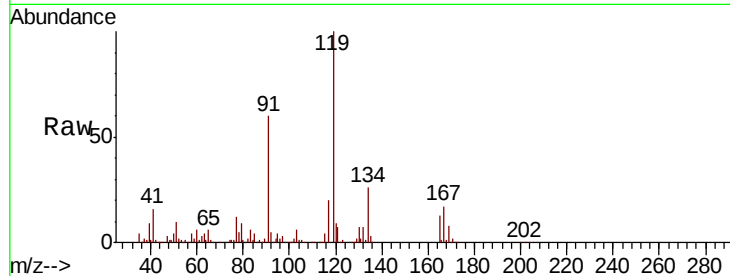
#83
tert-Butylbenzene
Concen: 48.927 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.5	28.8	86.4
134	25.7	13.2	39.6

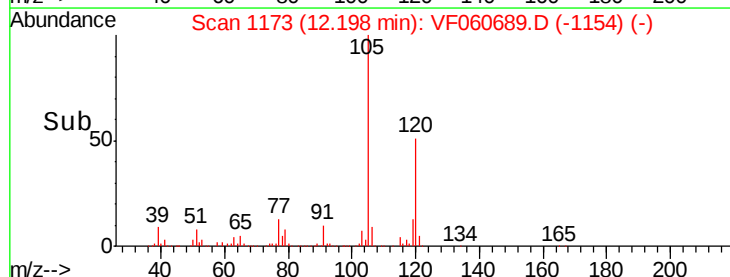
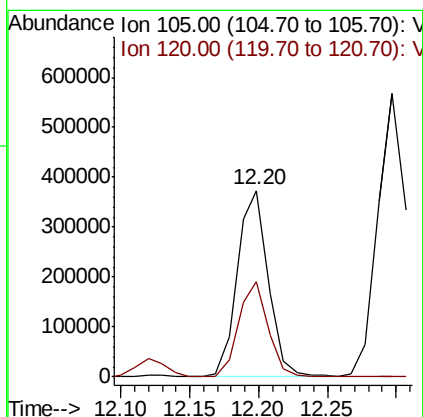
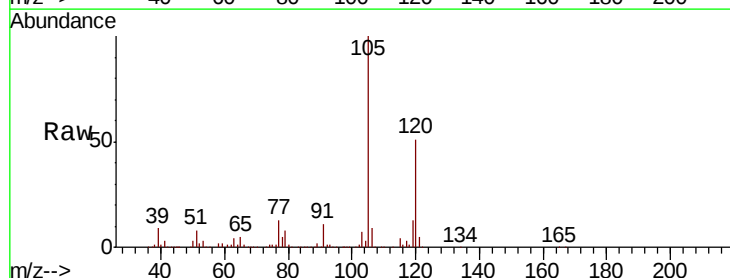
Manual Integrations
APPROVED

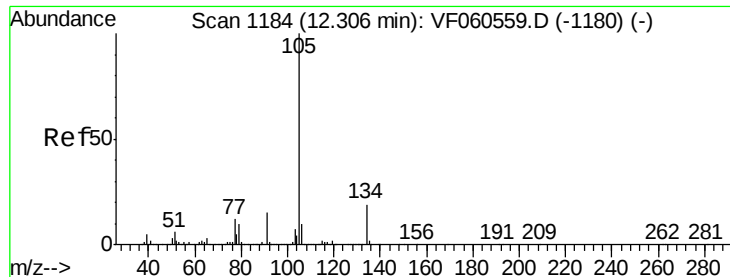
MMDadoda
11/13/2018 2:11:04 PM



#84
1,2,4-Trimethylbenzene
Concen: 47.405 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.1	25.6	76.8





#85

sec-Butylbenzene

Concen: 48.074 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 846140

Ion Ratio Lower Upper

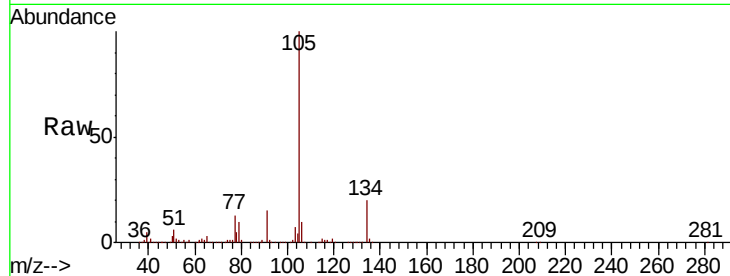
105 100

134 20.1 9.7 29.1

Manual Integrations
APPROVED

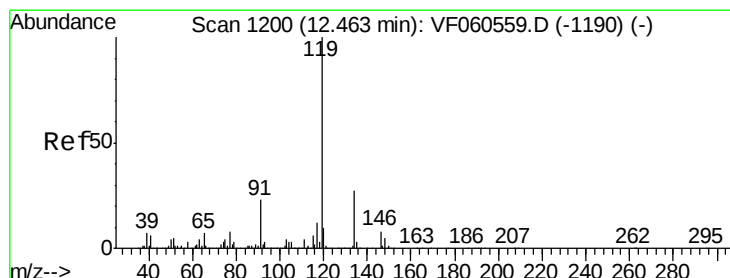
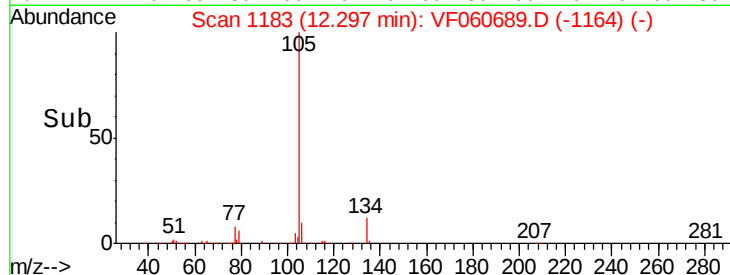
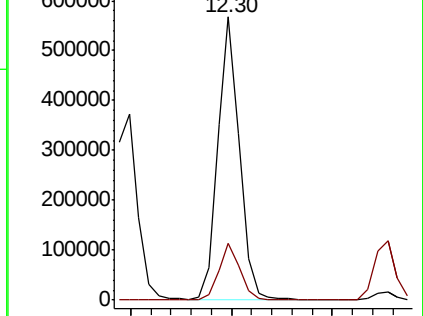
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 46.839 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

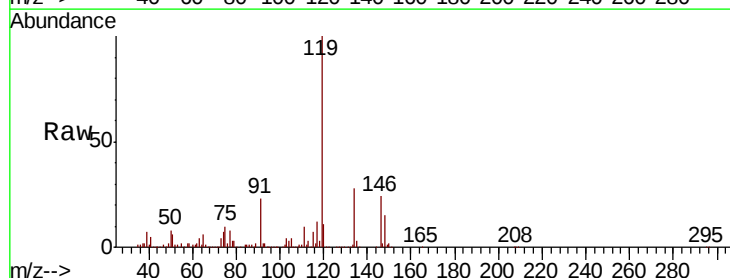
Tgt Ion:119 Resp: 678891

Ion Ratio Lower Upper

119 100

134 27.5 13.6 40.7

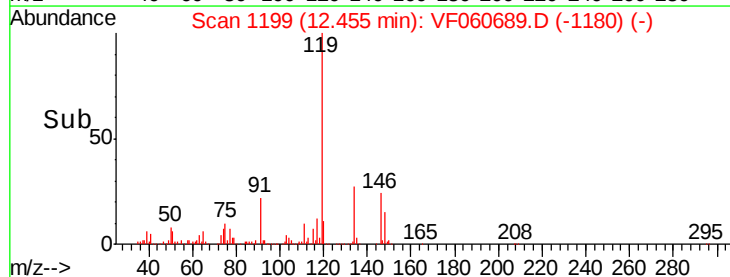
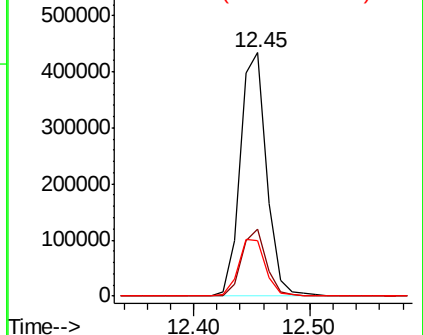
91 22.7 11.4 34.2

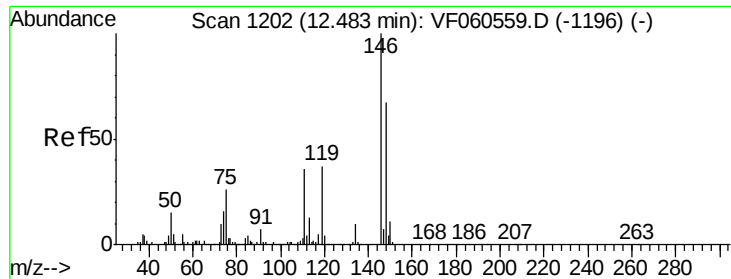


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 46.399 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF060689.D

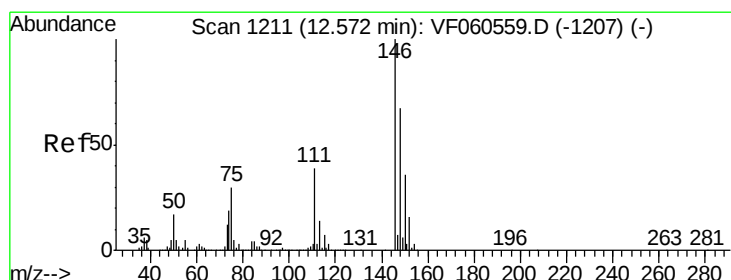
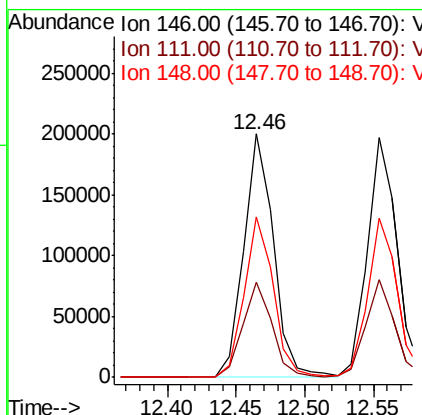
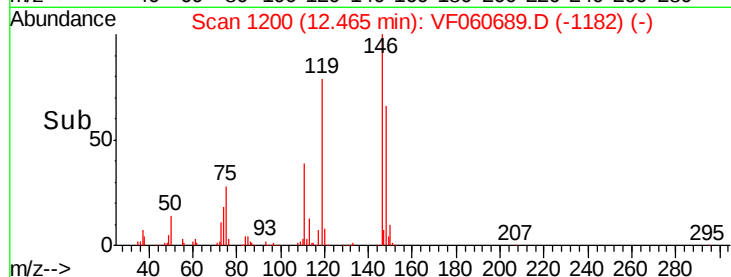
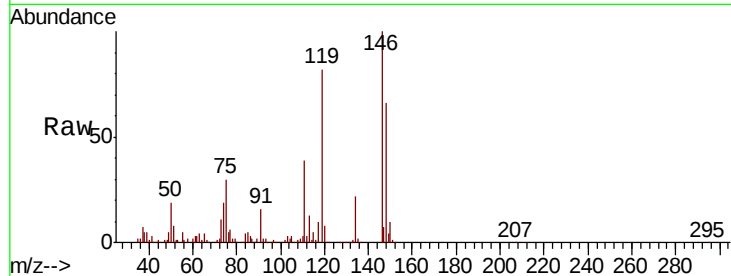
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.3	54.8
148	65.7	33.5	100.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 48.406 ug/l

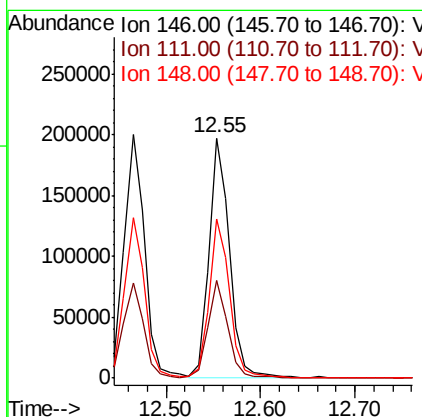
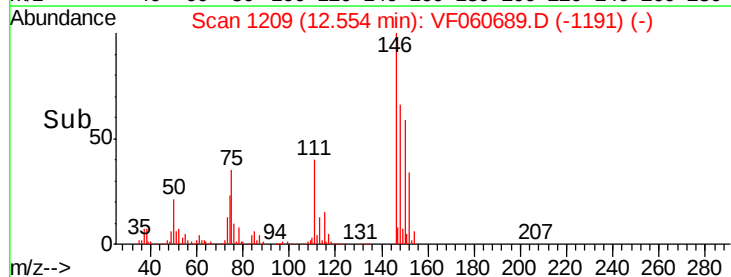
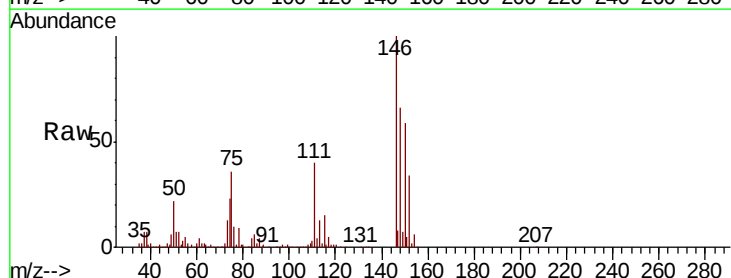
RT: 12.55 min Scan# 1209

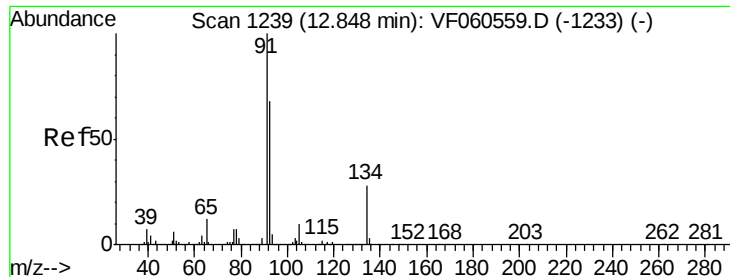
Delta R.T. -0.02 min

Lab File: VF060689.D

Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.7	59.1
148	66.2	33.7	101.1





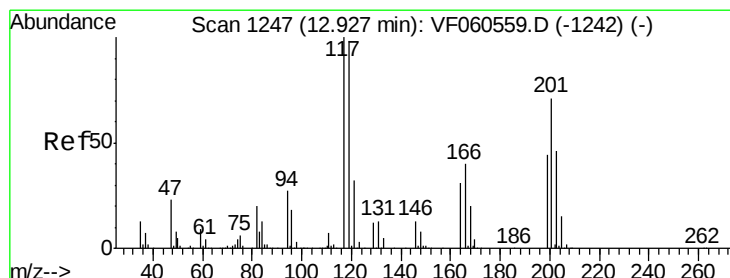
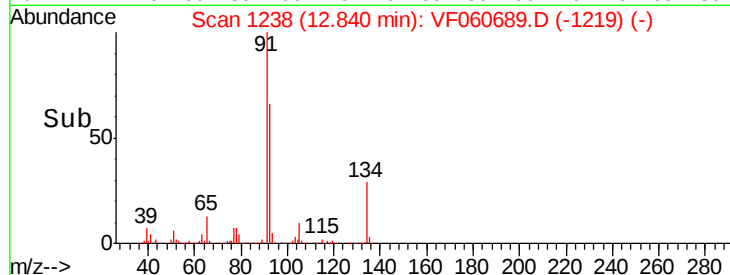
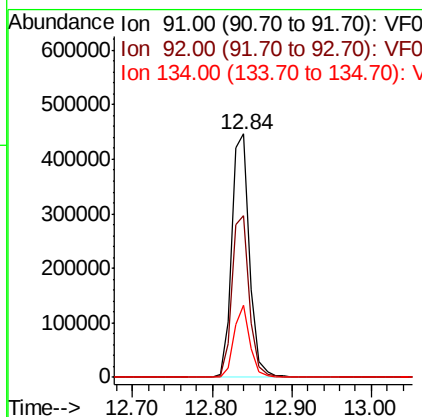
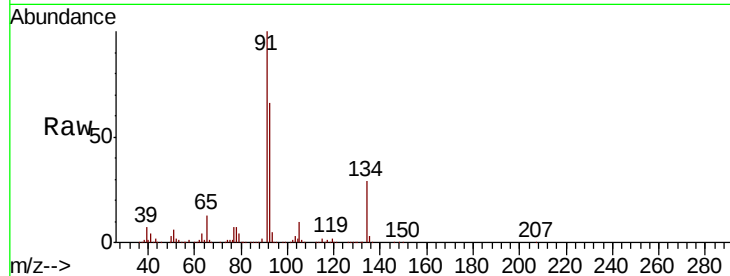
#89
n-Butylbenzene
Concen: 49.659 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	66.4	34.1	102.2
134	29.4	13.9	41.6

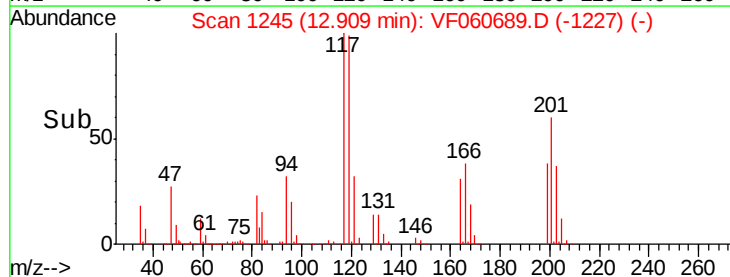
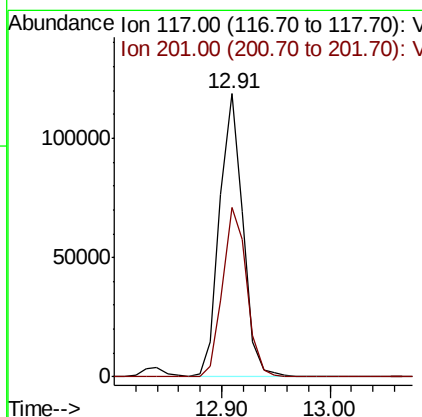
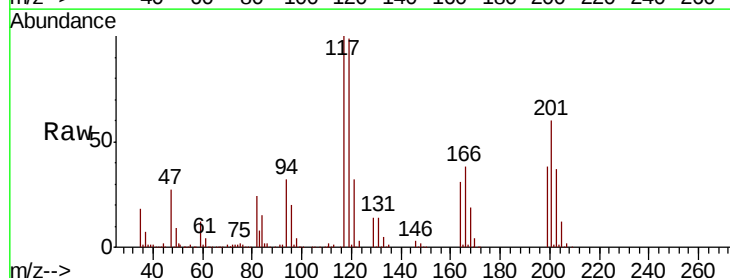
Manual Integrations
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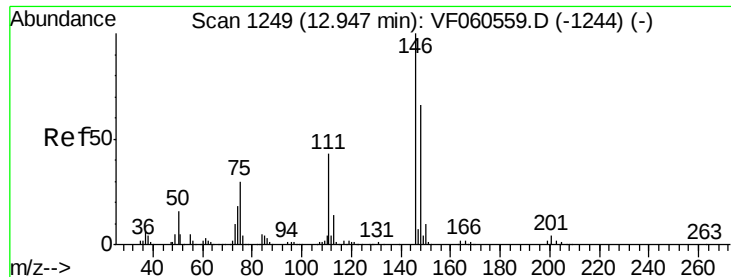
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#90
Hexachloroethane
Concen: 48.237 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	60.0	35.2	105.6





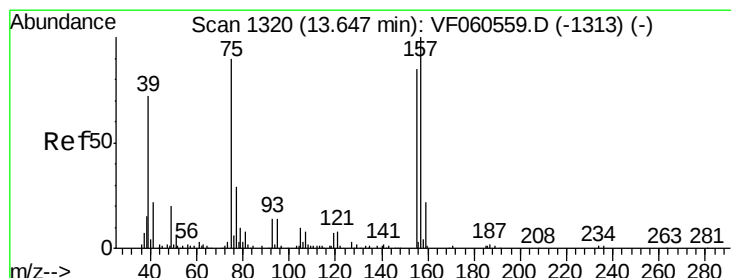
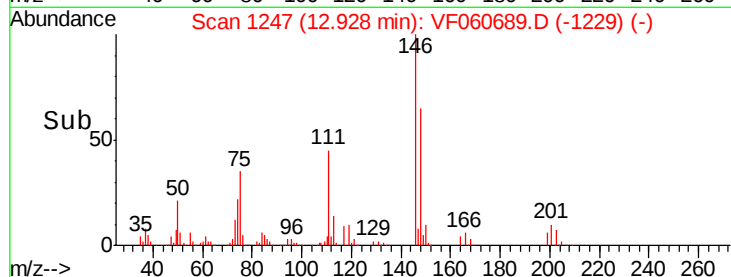
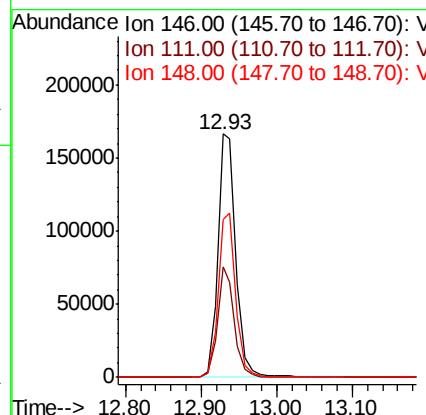
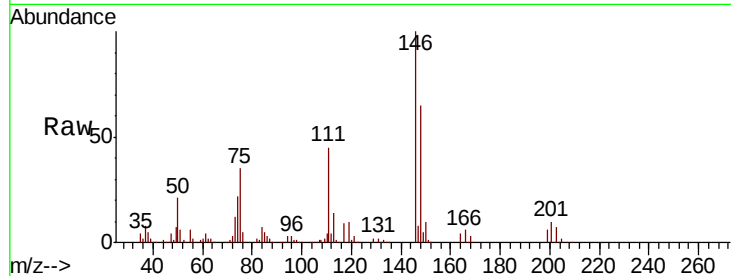
#91
 1,2-Dichlorobenzene
 Concen: 45.485 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	277691		
111	45.4	21.3	64.0	
148	64.9	32.9	98.7	

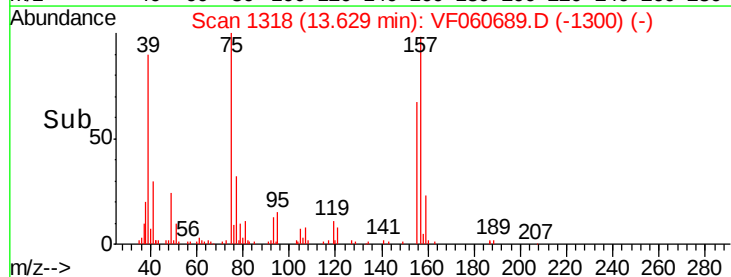
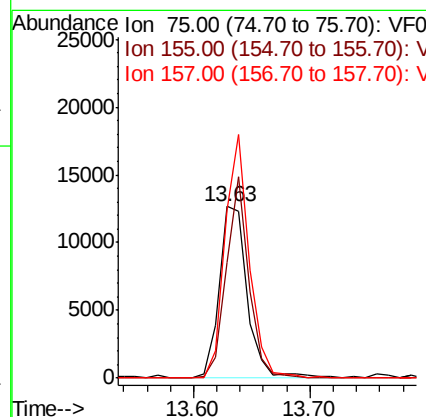
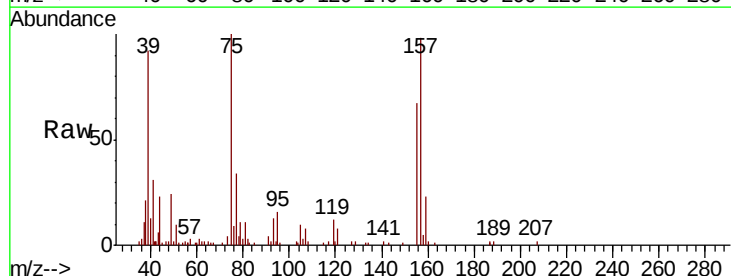
Manual Integrations
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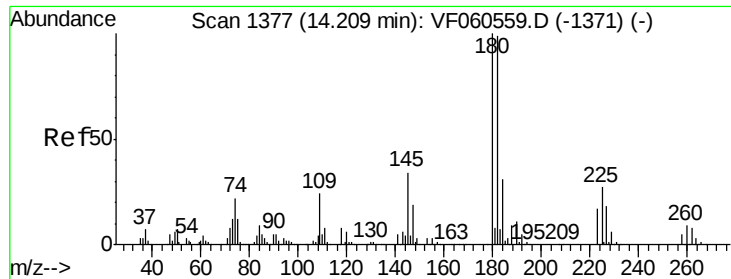
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.035 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	21218		
155	67.0	47.3	141.8	
157	98.2	55.3	165.9	





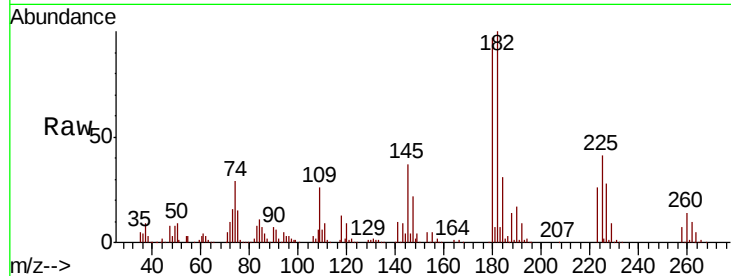
#93
 1,2,4-Trichlorobenzene
 Concen: 49.046 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	203424		
182	103.1	49.7	149.1	
145	37.9	16.9	50.7	

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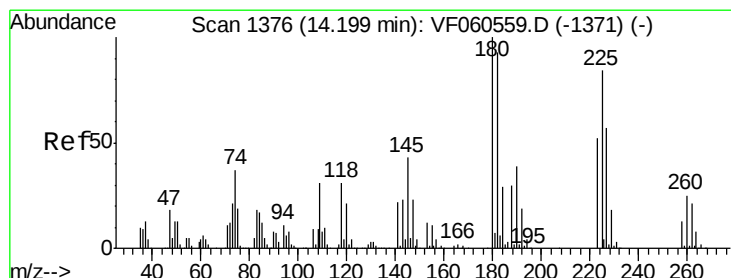
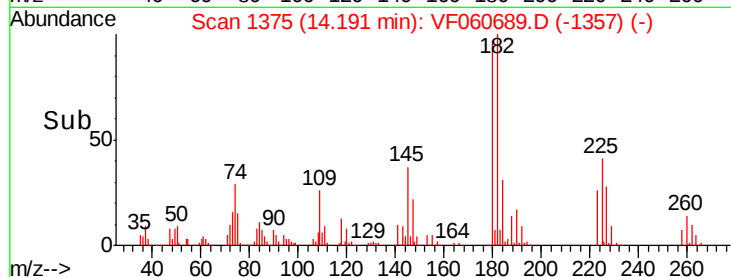
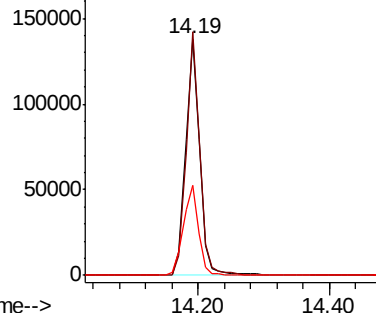


Abundance

Ion 180.00 (179.70 to 180.70): V

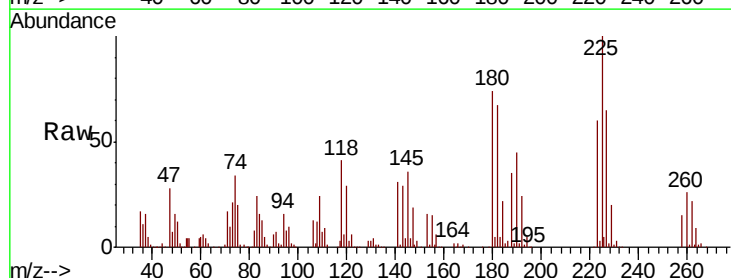
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 52.426 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF060689.D
 Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	140900		
223	60.2	30.9	92.5	
227	65.3	33.9	101.6	

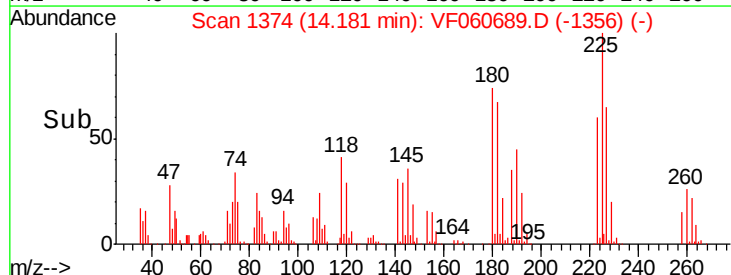
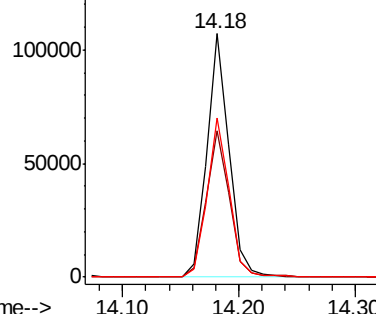


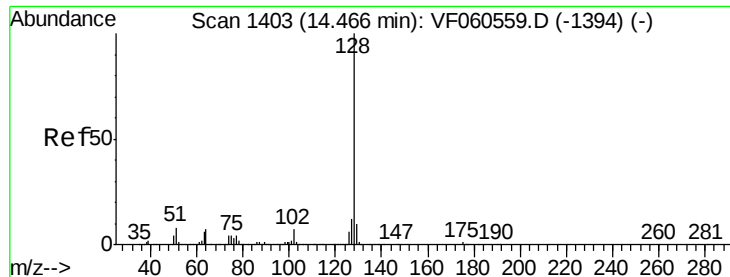
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





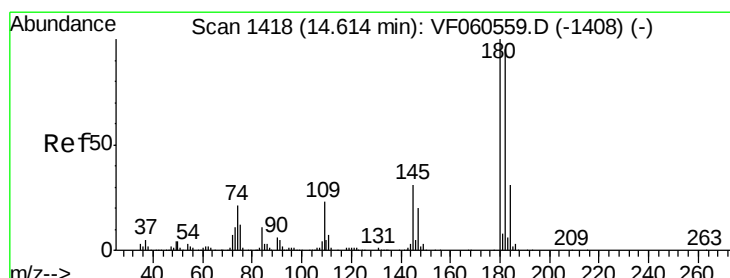
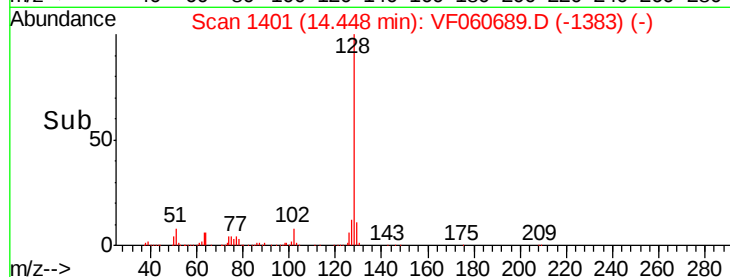
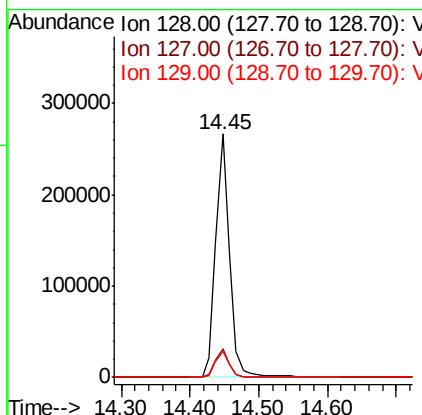
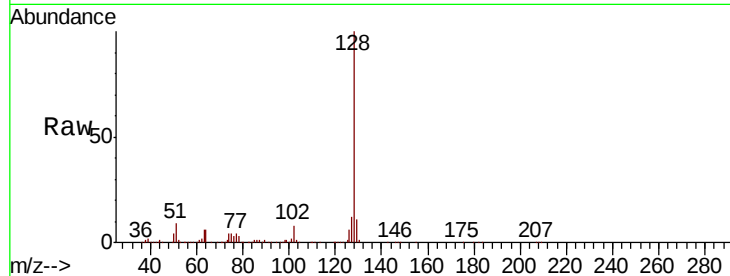
#95
Naphthalene
Concen: 44.759 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	9.4	14.0
129	10.8	8.4	12.6

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#96
1,2,3-Trichlorobenzene
Concen: 48.221 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF060689.D
Acq: 12 Nov 2018 14:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	47.3	142.0
145	34.3	15.6	46.8

