

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122718\
 Data File : VF061223.D
 Acq On : 27 Dec 2018 22:26
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/28/2018 9:38:55 AM

Quant Time: Dec 28 06:32:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	183576	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	323038	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	291213	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	139018	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	108207	45.83	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	91.66%	
35) Dibromofluoromethane	4.10	113	115596	44.67	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	89.34%	
50) Toluene-d8	7.53	98	326473	44.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	11.40	95	147326	43.58	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	188308	46.145	ug/l	96
3) Chloromethane	1.10	50	128368	54.916	ug/l	96
4) Vinyl Chloride	1.14	62	114430	52.771	ug/l	90
5) Bromomethane	1.33	94	75432	50.153	ug/l	97
6) Chloroethane	1.39	64	49917	49.959	ug/l	99
7) Trichlorofluoromethane	1.48	101	209683m	50.644	ug/l	
8) Diethyl Ether	1.62	74	31438	55.449	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	110908	51.664	ug/l	94
10) Methyl Iodide	1.90	142	172630m	51.015	ug/l	
11) Tert butyl alcohol	2.56	59	25016	262.552	ug/l	94
12) 1,1-Dichloroethene	1.79	96	87497	54.070	ug/l	91
13) Acrolein	2.00	56	19091	277.288	ug/l #	79
14) Allyl chloride	2.09	41	107168	63.638	ug/l	90
15) Acrylonitrile	2.92	53	64940	294.746	ug/l	98
16) Acetone	2.23	43	94011	199.171	ug/l	98
17) Carbon Disulfide	1.83	76	246860m	50.479	ug/l	
18) Methyl Acetate	2.33	43	53468	54.752	ug/l	94
19) Methyl tert-butyl Ether	2.41	73	185903	51.756	ug/l	100
20) Methylene Chloride	2.23	84	90283m	60.829	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	89693m	51.822	ug/l	
22) Diisopropyl ether	2.79	45	311941	55.609	ug/l	95
23) Vinyl Acetate	3.17	43	698808	270.040	ug/l	98
24) 1,1-Dichloroethane	2.86	63	181017	54.464	ug/l	99
25) 2-Butanone	4.32	43	189474	247.513	ug/l	97
26) 2,2-Dichloropropane	3.58	77	98088	51.426	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	143740	54.248	ug/l	97
28) Bromochloromethane	3.69	49	94163	55.837	ug/l	88
29) Tetrahydrofuran	4.06	42	82969	266.292	ug/l	99
30) Chloroform	3.84	83	256222	51.414	ug/l	99
31) Cyclohexane	3.67	56	183007m	53.064	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	174472	58.410	ug/l	96
36) 1,1-Dichloropropene	4.26	75	187548	48.098	ug/l	97
37) Ethyl Acetate	4.09	43	81960	55.015	ug/l #	81
38) Carbon Tetrachloride	3.97	117	148398	49.975	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	203710	58.233	ug/l	98
40) Benzene	4.61	78	425082	50.693	ug/l	96
41) Methacrylonitrile	4.72	41	42926	52.127	ug/l #	90
42) 1,2-Dichloroethane	4.92	62	156769	49.214	ug/l	98
43) Isopropyl Acetate	6.94	43	97657	51.869	ug/l #	98
44) Trichloroethene	5.49	130	129761	49.083	ug/l	97
45) 1,2-Dichloropropane	6.22	63	120258	52.712	ug/l	93
46) Dibromomethane	6.07	93	77227	52.191	ug/l	97
47) Bromodichloromethane	6.37	83	195642	50.887	ug/l	99
48) Methyl methacrylate	6.70	41	77000	58.583	ug/l	96
49) 1,4-Dioxane	6.69	88	10746	1126.759	ug/l #	62
51) 4-Methyl-2-Pentanone	8.24	43	322667	249.888	ug/l	99
52) Toluene	7.61	92	258566	46.582	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	145868	47.032	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	195632	50.257	ug/l	100
55) 1,1,2-Trichloroethane	8.47	97	88616	53.254	ug/l	98
56) Ethyl methacrylate	8.61	69	93729	52.054	ug/l	97
57) 1,3-Dichloropropane	8.83	76	155812	51.772	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	65340	188.943	ug/l	94
59) 2-Hexanone	9.47	43	229766	246.055	ug/l	97
60) Dibromochloromethane	8.70	129	121420	50.903	ug/l	91
61) 1,2-Dibromoethane	8.97	107	93116	52.396	ug/l	96
64) Tetrachloroethene	8.13	164	111785	49.900	ug/l	98
65) Chlorobenzene	9.78	112	304291	50.580	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	122609	49.871	ug/l	99
67) Ethyl Benzene	9.88	91	558833	50.988	ug/l	98
68) m/p-Xylenes	10.12	106	374962	97.213	ug/l	100
69) o-Xylene	10.70	106	221606	51.803	ug/l	92
70) Styrene	10.78	104	289593	56.156	ug/l	99
71) Bromoform	10.76	173	57500	50.553	ug/l #	99
73) Isopropylbenzene	11.11	105	638917	53.332	ug/l	100
74) N-amyl acetate	11.36	43	150943	56.751	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	109386	55.016	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	80559	54.444	ug/l	92
77) Bromobenzene	11.48	156	130799	50.720	ug/l	99
78) n-propylbenzene	11.59	91	709696	51.853	ug/l	96
79) 2-Chlorotoluene	11.70	91	415320	50.536	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	491479	49.823	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	36947m	58.109	ug/l	
82) 4-Chlorotoluene	11.88	91	429095	50.473	ug/l	97
83) tert-Butylbenzene	12.12	119	528869	52.101	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	494875	50.307	ug/l	97
85) sec-Butylbenzene	12.30	105	710494	53.634	ug/l	98
86) p-Isopropyltoluene	12.44	119	576727	52.451	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	238587	57.497	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	241975	51.099	ug/l	99
89) n-Butylbenzene	12.83	91	581355	53.128	ug/l	97
90) Hexachloroethane	12.91	117	144679	53.257	ug/l	80
91) 1,2-Dichlorobenzene	12.93	146	236606	51.321	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	20909	57.308	ug/l	80

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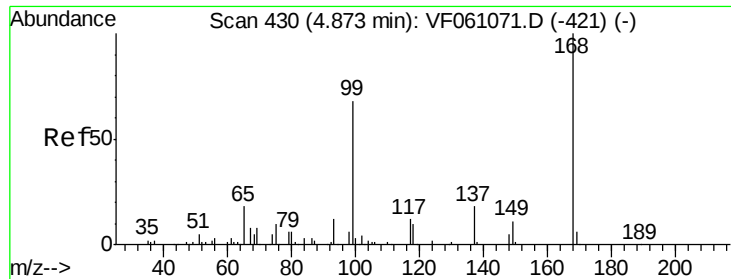
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	159089	48.657	ug/l	94
94) Hexachlorobutadiene	14.18	225	104836	50.342	ug/l	96
95) Naphthalene	14.45	128	313453	52.501	ug/l	99
96) 1,2,3-Trichlorobenzene	14.58	180	157646	52.155	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 183576

Ion Ratio Lower Upper

168 100

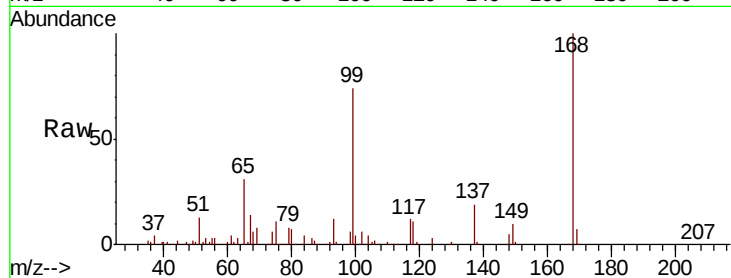
99 74.4 54.4 81.6

Manual Integrations

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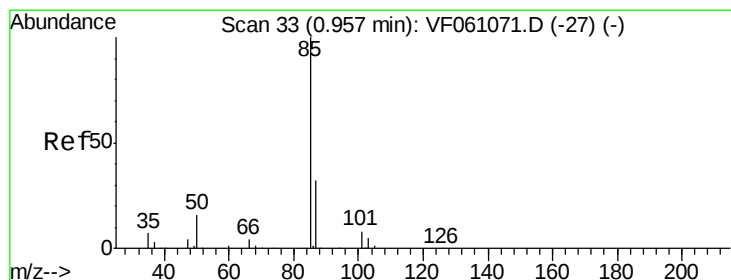
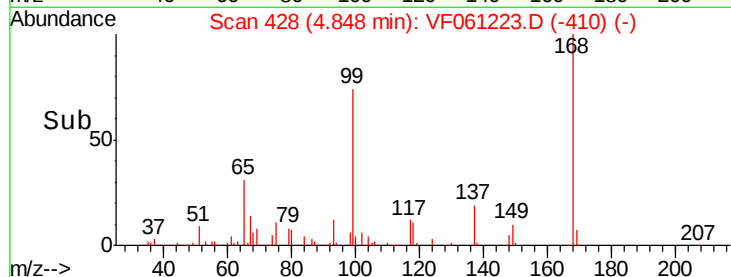
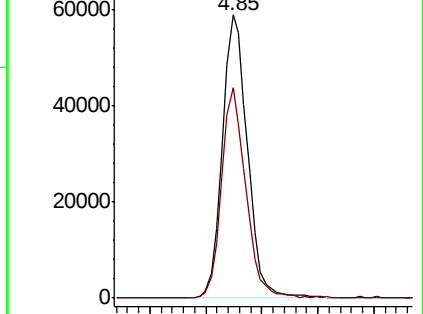
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 46.145 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061223.D

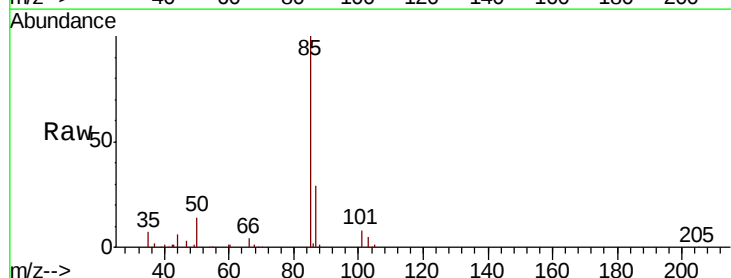
Acq: 27 Dec 2018 22:26

Tgt Ion: 85 Resp: 188308

Ion Ratio Lower Upper

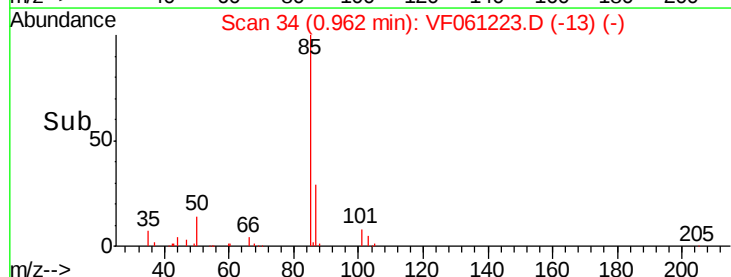
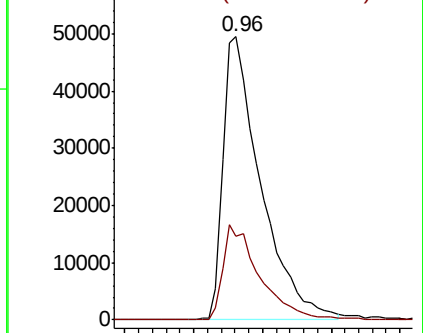
85 100

87 29.4 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 54.916 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 128368

Ion Ratio Lower Upper

50 100

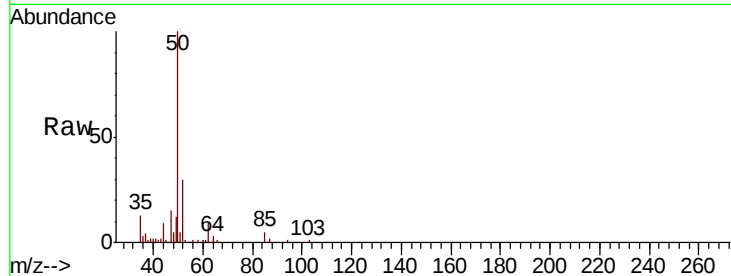
52 30.4 26.3 39.5

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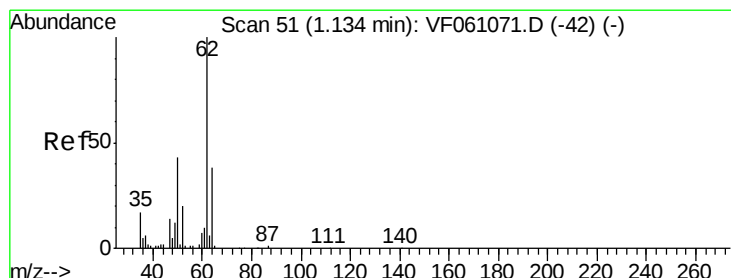
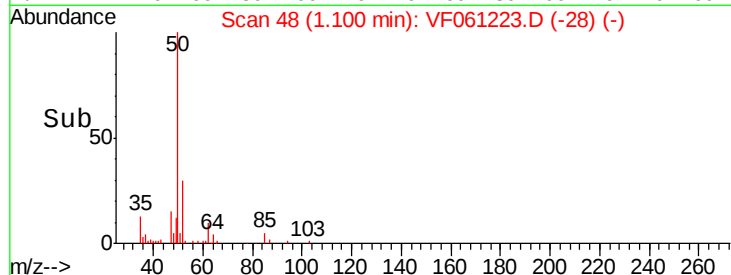
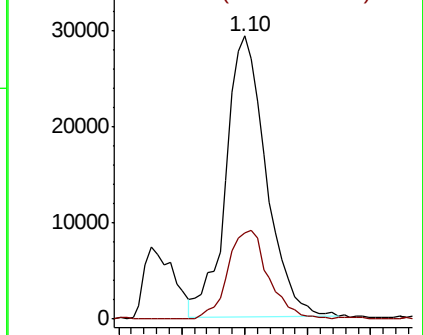
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 52.771 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061223.D

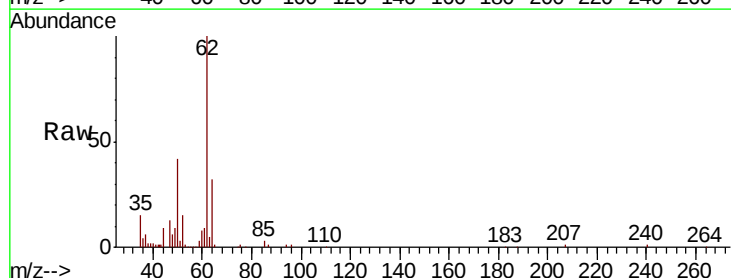
Acq: 27 Dec 2018 22:26

Tgt Ion: 62 Resp: 114430

Ion Ratio Lower Upper

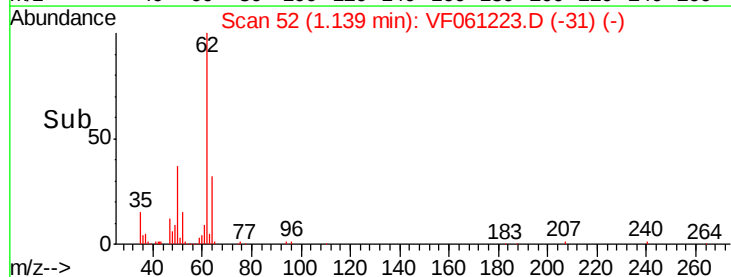
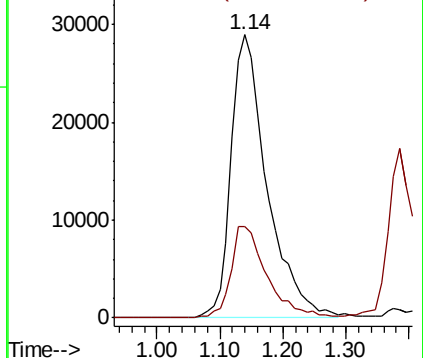
62 100

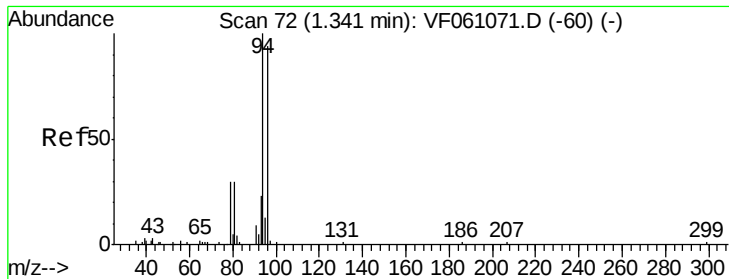
64 32.1 30.4 45.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 50.153 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 75432

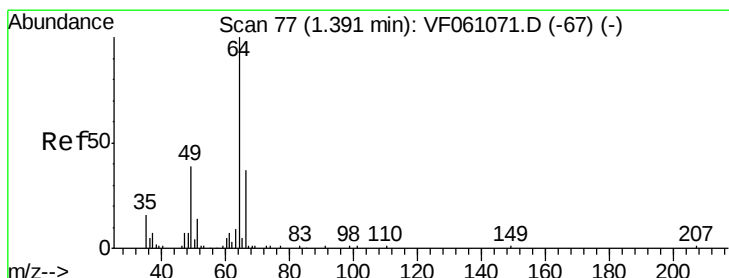
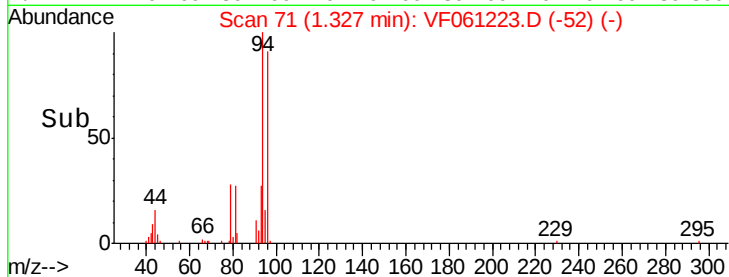
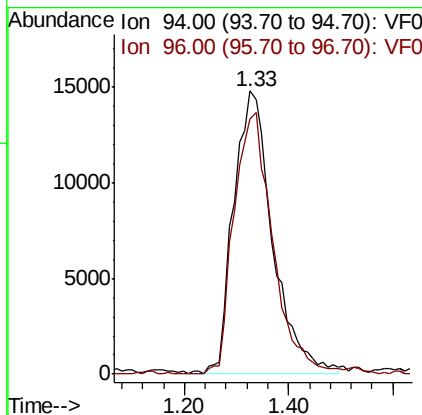
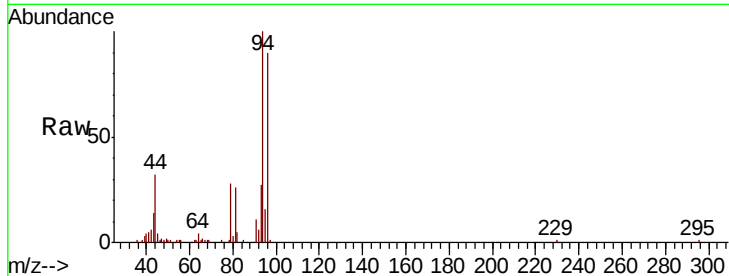
Ion Ratio Lower Upper

94 100

96 90.0 74.4 111.6

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#6

Chloroethane

Concen: 49.959 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061223.D

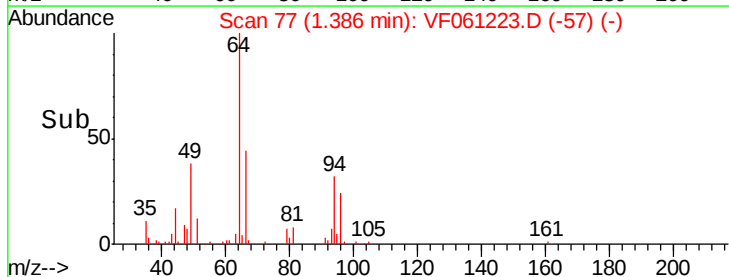
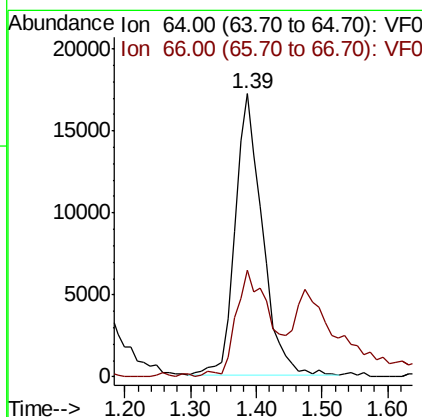
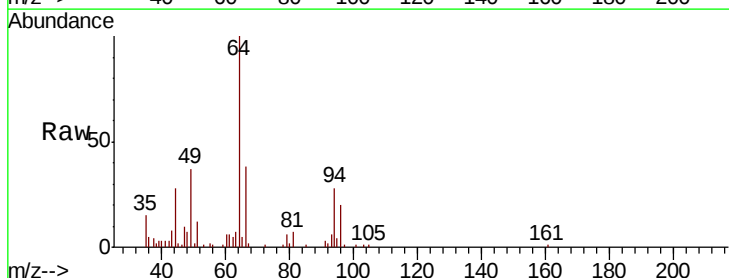
Acq: 27 Dec 2018 22:26

Tgt Ion: 64 Resp: 49917

Ion Ratio Lower Upper

64 100

66 37.8 30.9 46.3





#7

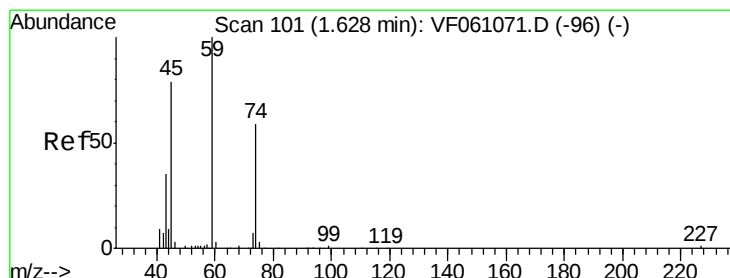
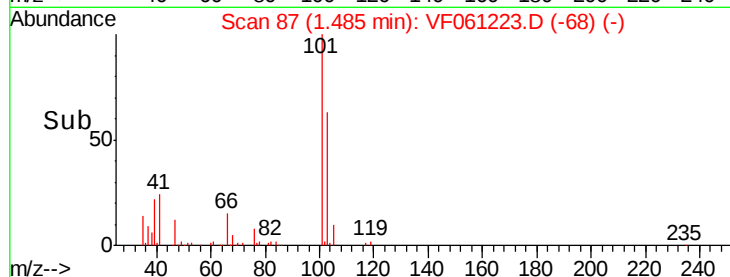
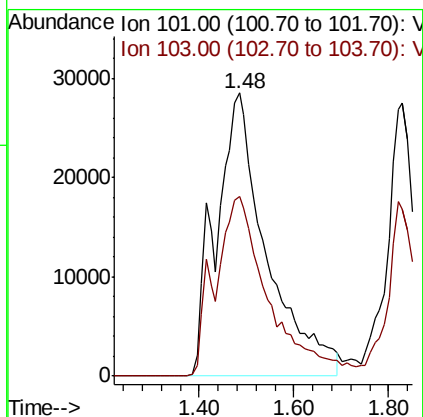
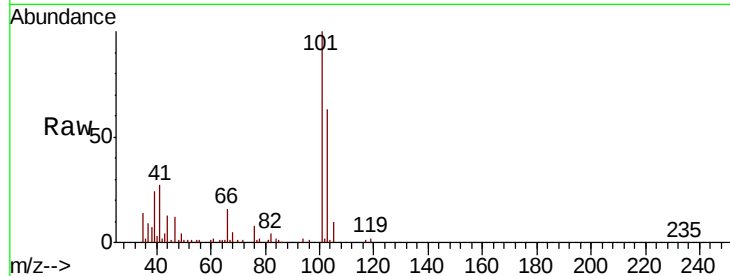
Trichlorofluoromethane
Concen: 50.644 ug/l m
RT: 1.48 min Scan# 87
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:101 Resp: 209683
Ion Ratio Lower Upper
101 100
103 63.3 50.7 76.1

Manual Integrations
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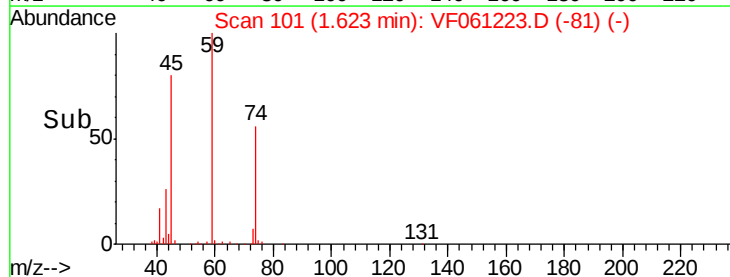
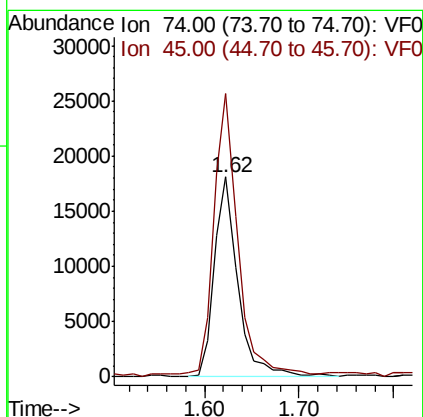
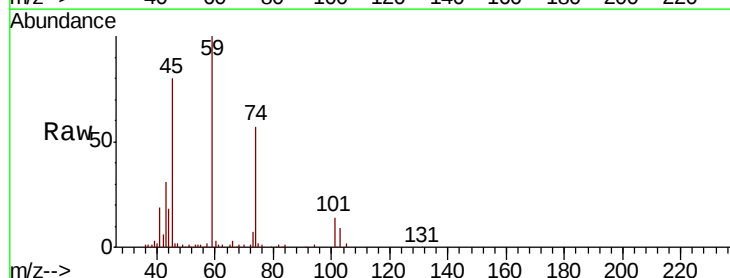
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#8

Diethyl Ether
Concen: 55.449 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 74 Resp: 31438
Ion Ratio Lower Upper
74 100
45 141.8 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.664 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

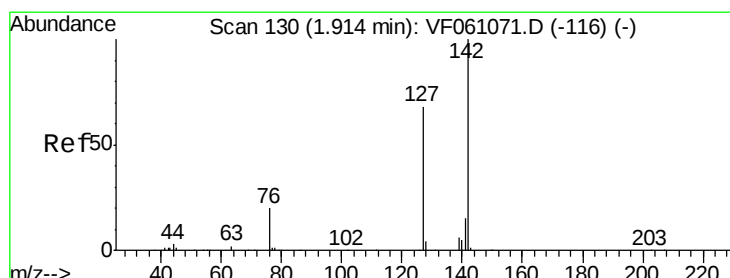
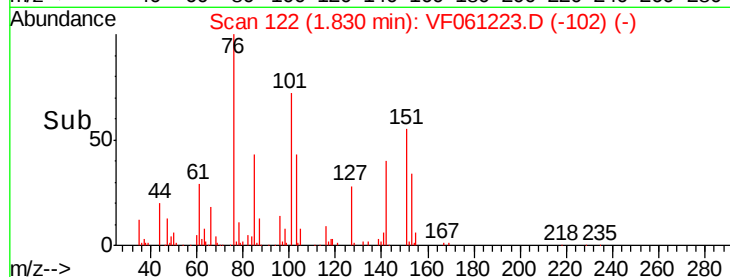
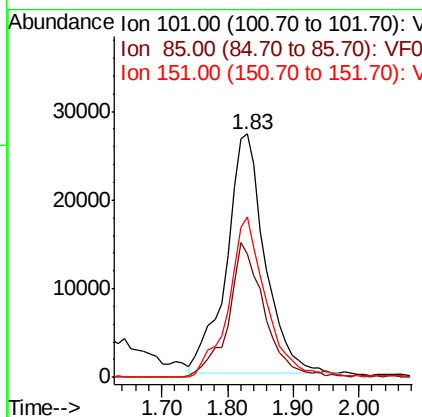
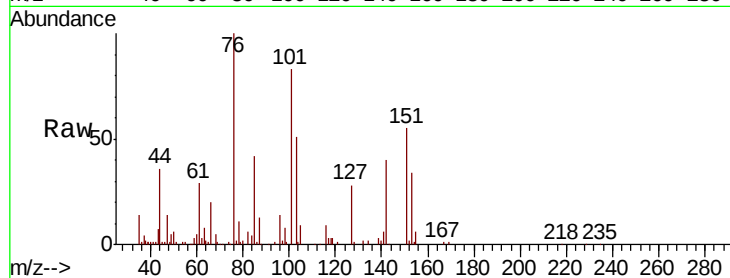
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	110908
Ion Ratio	Lower	Upper	
101	100		
85	50.8	44.5	66.7
151	66.0	49.9	74.9

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#10

Methyl Iodide

Concen: 51.015 ug/l m

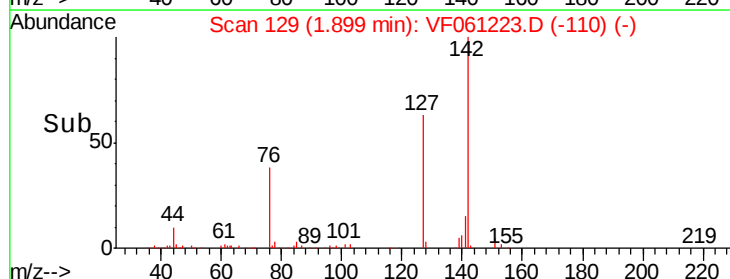
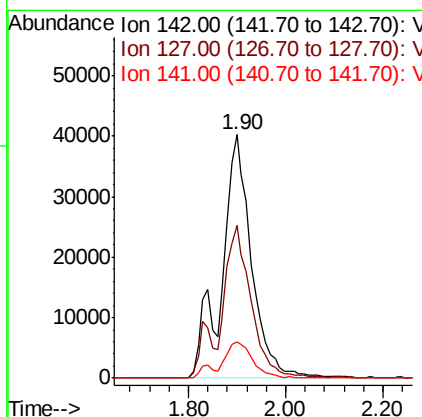
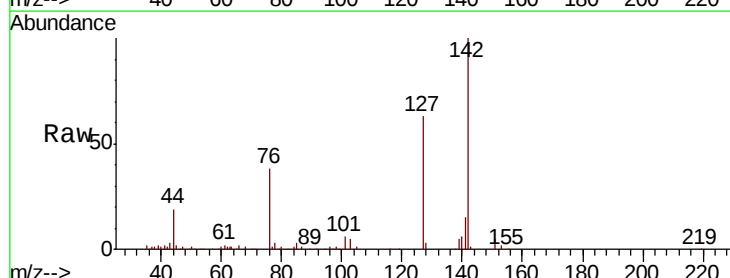
RT: 1.90 min Scan# 129

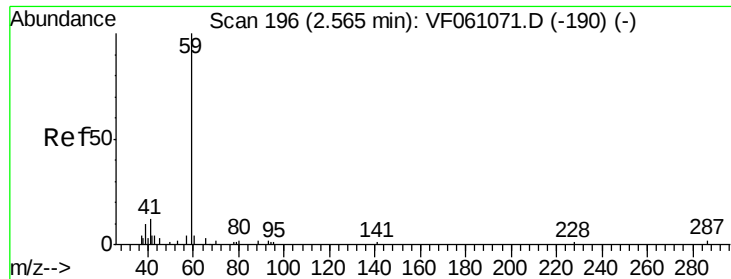
Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Tgt Ion:	142	Resp:	172630
Ion Ratio	Lower	Upper	
142	100		
127	62.9	54.7	82.1
141	14.8	12.2	18.2





#11

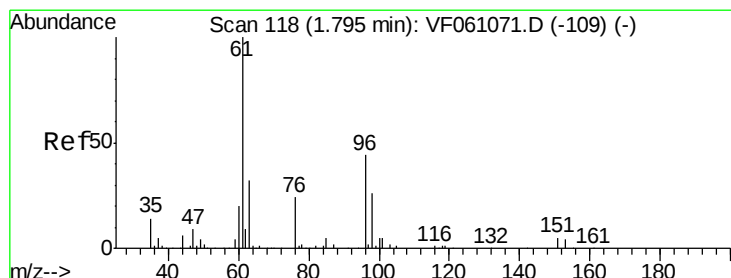
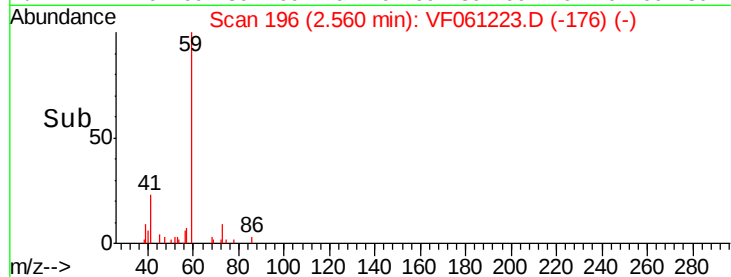
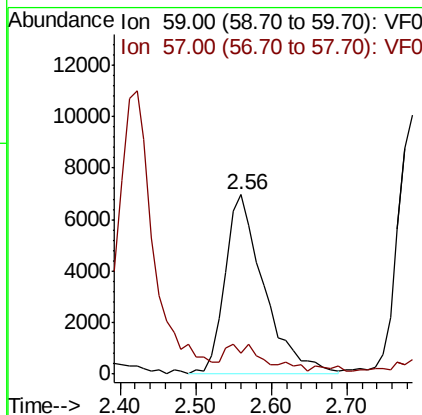
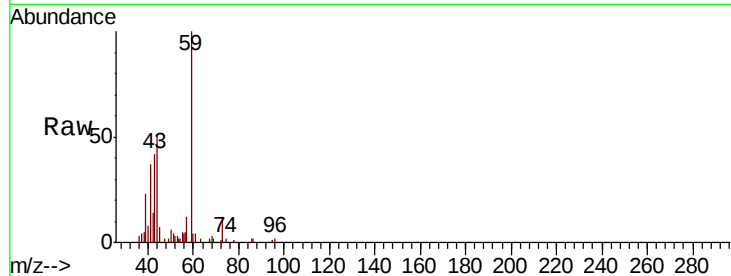
Tert butyl alcohol
 Concen: 262.552 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	11.8	11.5	17.3

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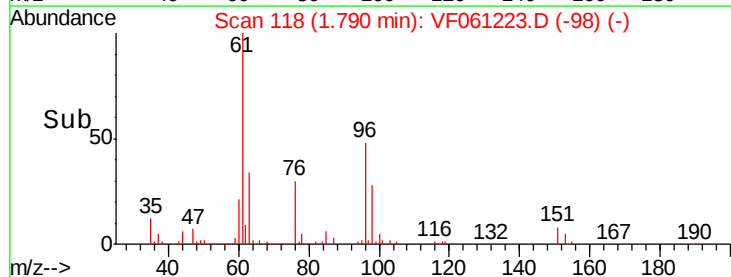
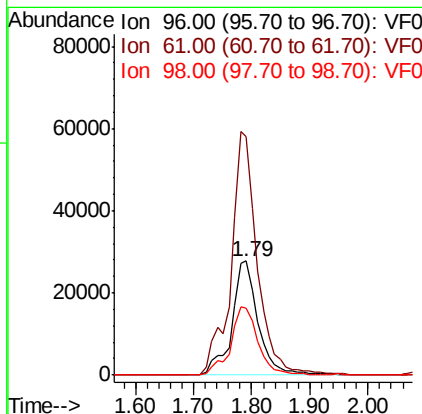
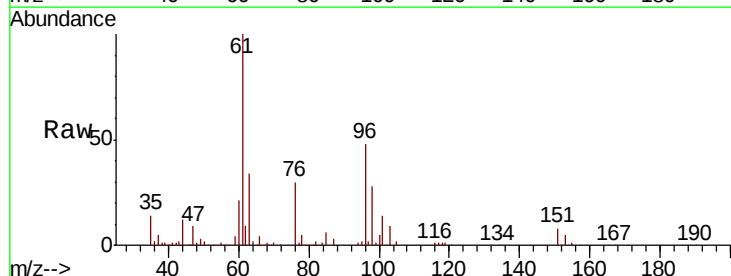
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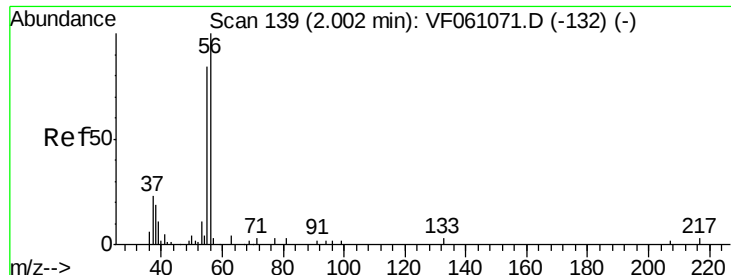


#12

1,1-Dichloroethene
 Concen: 54.070 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	209.3	182.0	273.0
98	98	58.6	46.5	69.7





#13

Acrolein

Concen: 277.288 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 19091

Ion Ratio Lower Upper

56 100

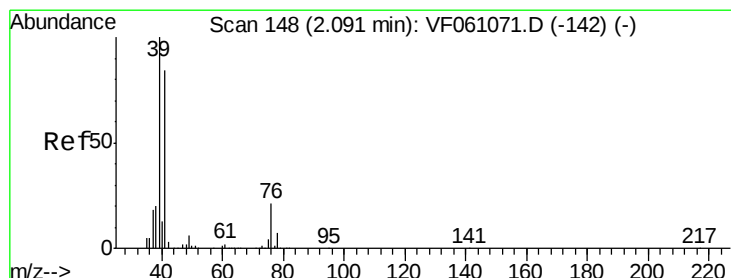
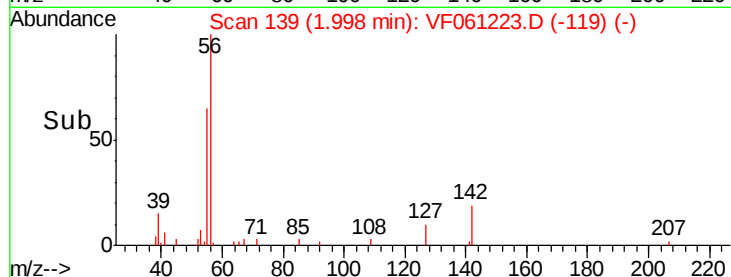
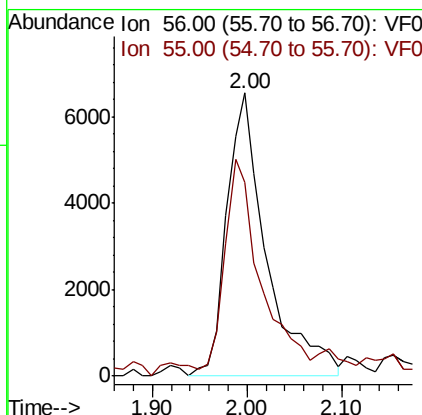
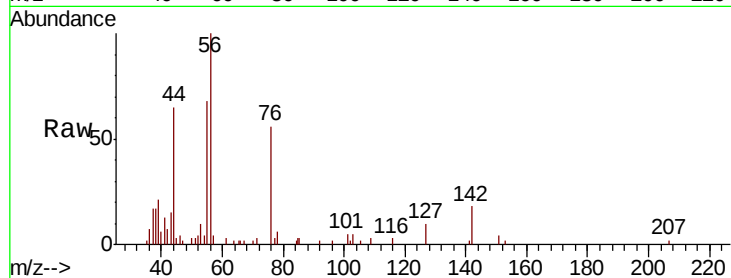
55 68.4 70.2 105.2#

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#14

Allyl chloride

Concen: 63.638 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

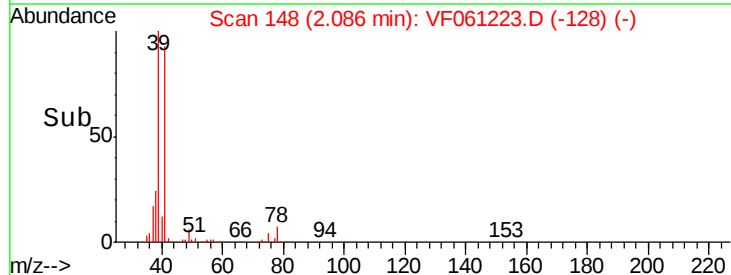
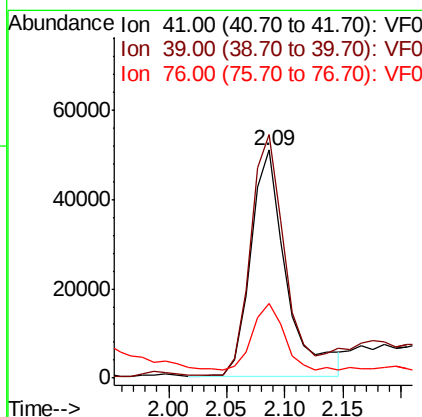
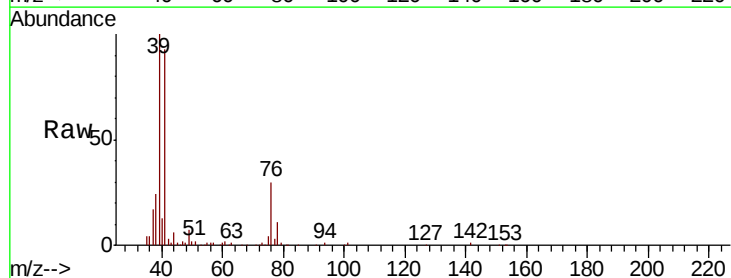
Tgt Ion: 41 Resp: 107168

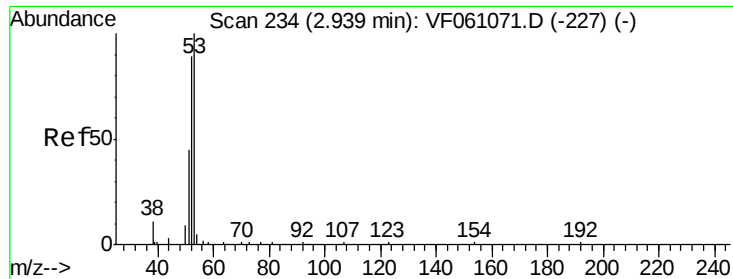
Ion Ratio Lower Upper

41 100

39 107.0 96.4 144.6

76 32.6 25.4 38.0





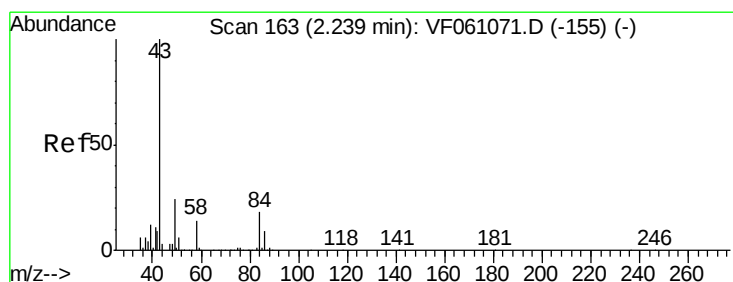
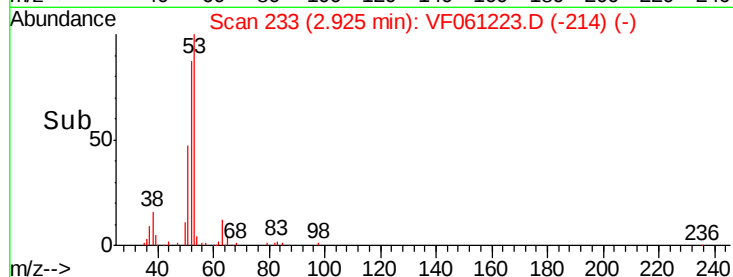
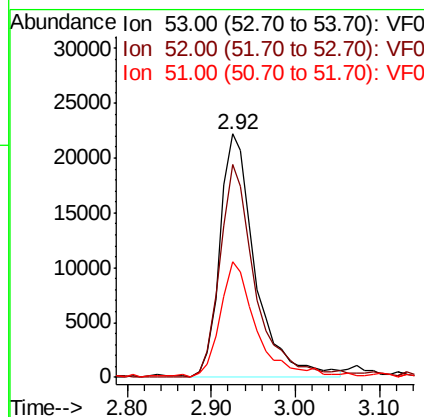
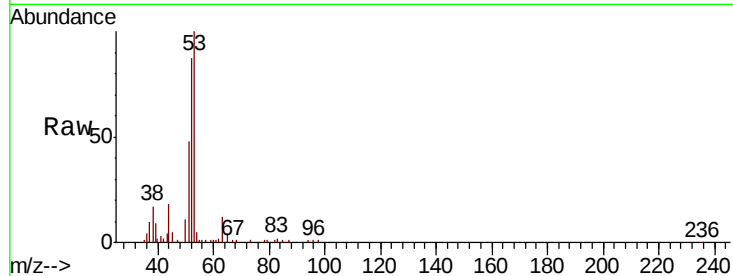
#15
 Acrylonitrile
 Concen: 294.746 ug/l
 RT: 2.92 min Scan# 233
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	87.3	71.3	106.9
51	47.5	36.8	55.2

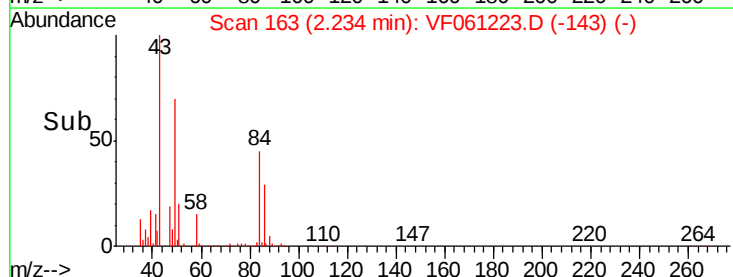
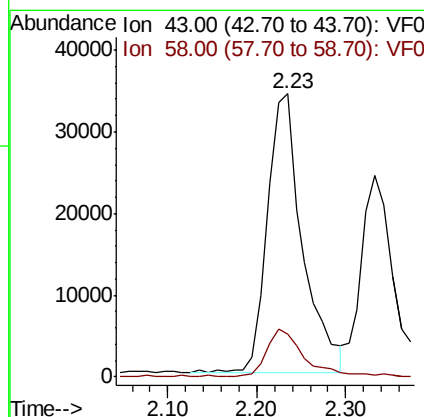
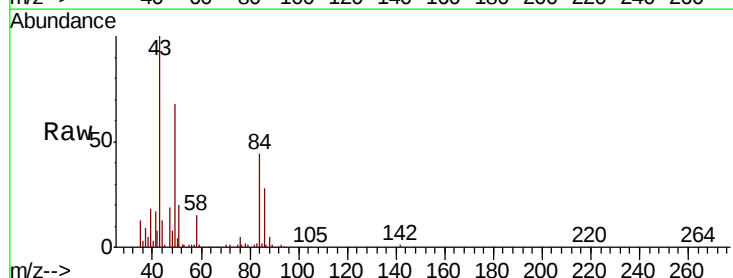
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#16
 Acetone
 Concen: 199.171 ug/l
 RT: 2.23 min Scan# 163
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	14.9	11.1	16.7





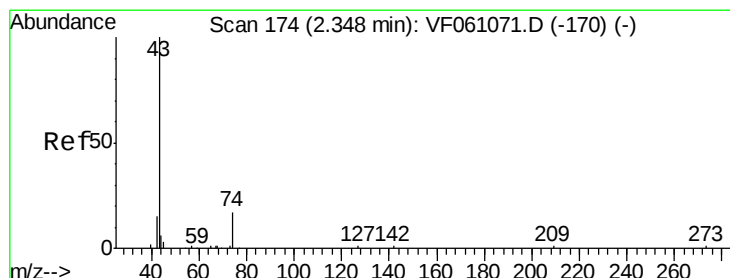
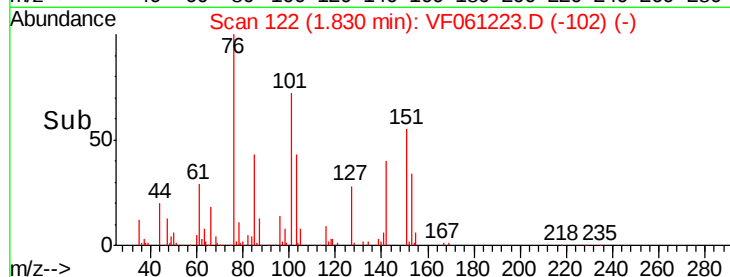
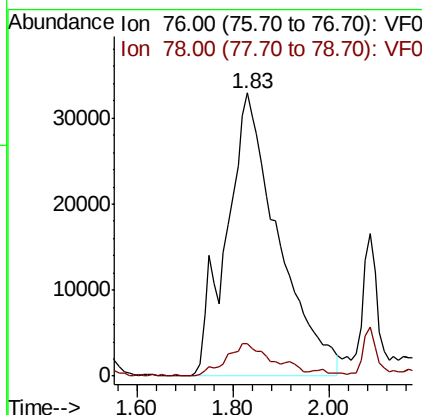
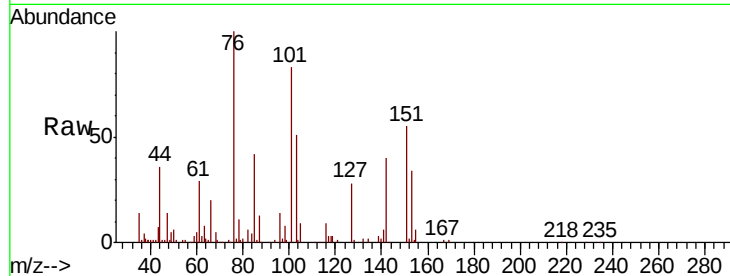
#17
Carbon Disulfide
Concen: 50.479 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.00 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 246860
Ion Ratio Lower Upper
76 100
78 11.5 10.2 15.4

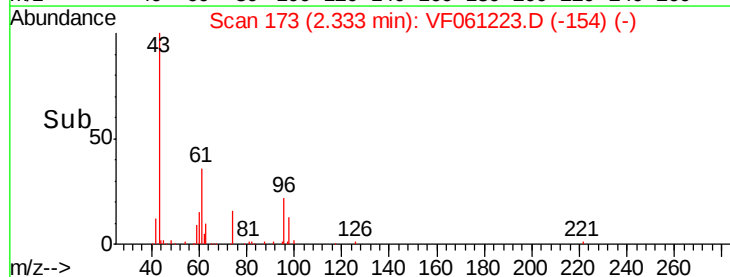
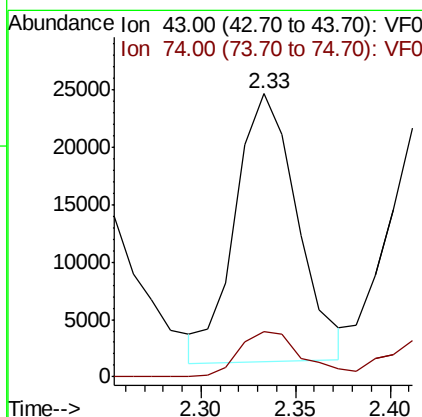
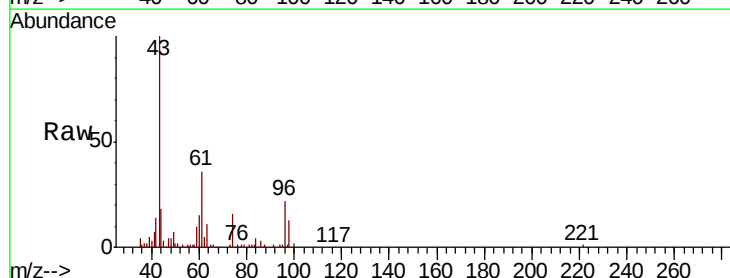
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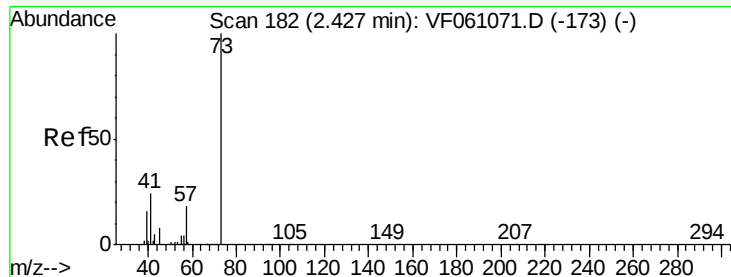
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#18
Methyl Acetate
Concen: 54.752 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 43 Resp: 53468
Ion Ratio Lower Upper
43 100
74 16.2 11.0 16.6





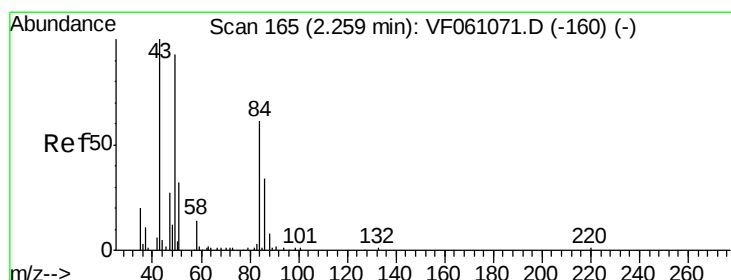
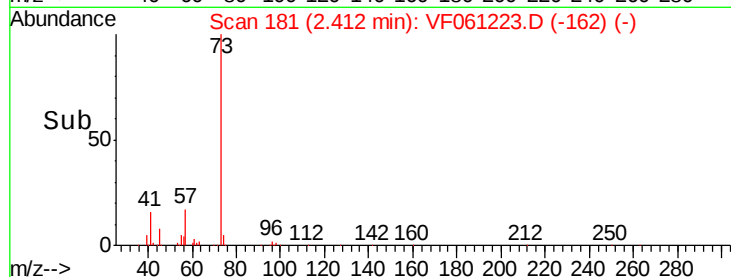
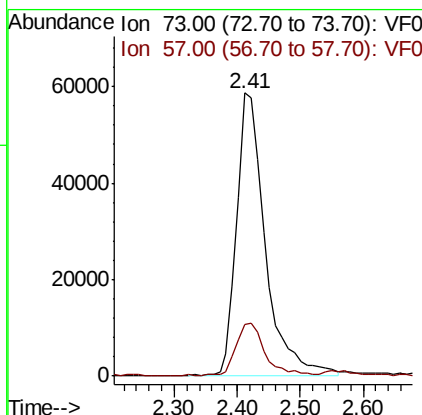
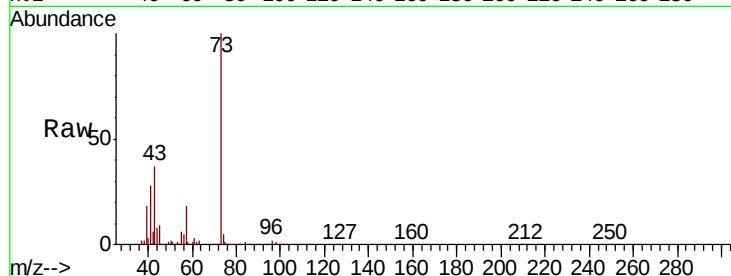
#19
Methvl tert-butvl Ether
Concen: 51.756 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 185903
Ion Ratio Lower Upper
73 100
57 18.2 14.5 21.7

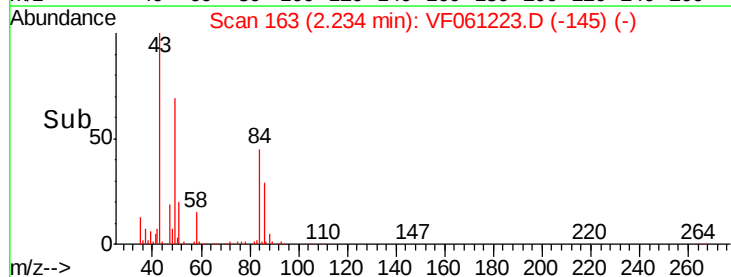
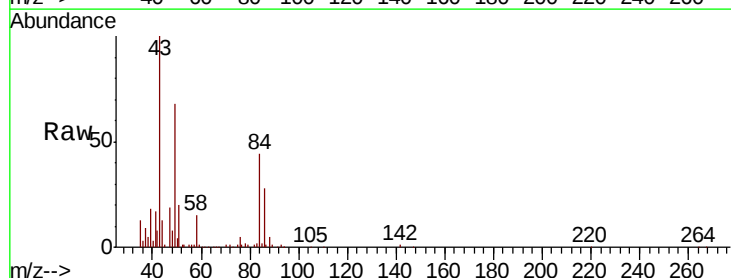
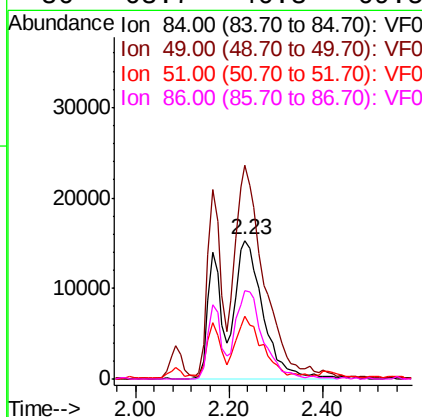
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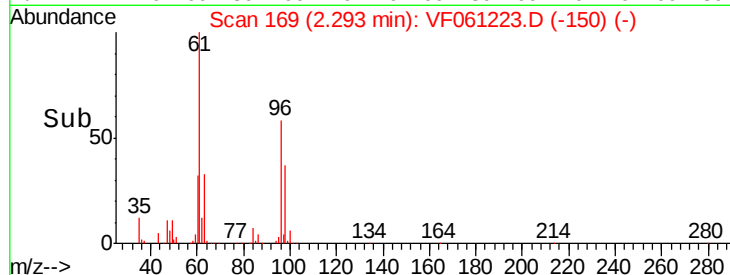
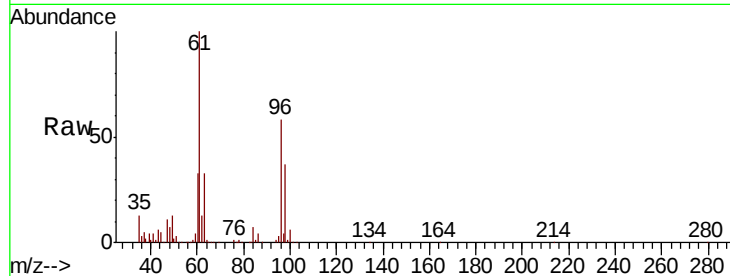
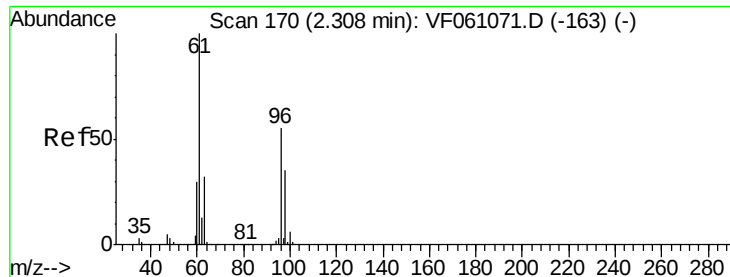
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#20
Methylene Chloride
Concen: 60.829 ug/l m
RT: 2.23 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 84 Resp: 90283
Ion Ratio Lower Upper
84 100
49 154.0 129.4 194.2
51 45.1 44.0 66.0
86 63.7 46.3 69.5





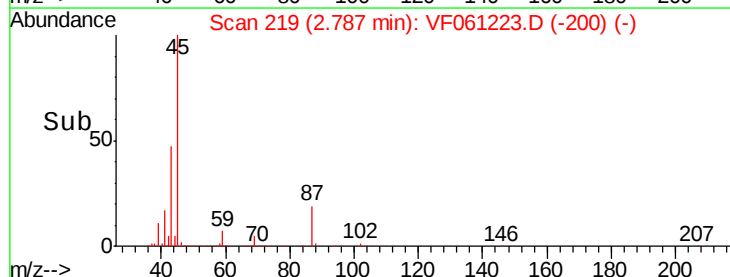
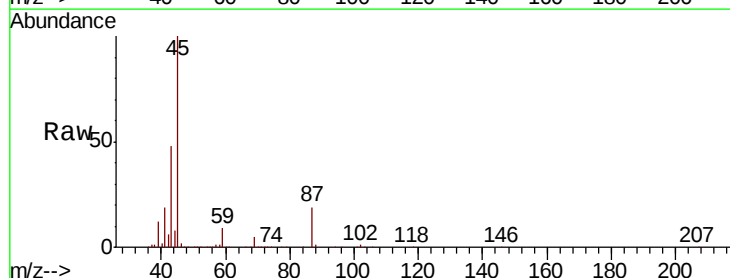
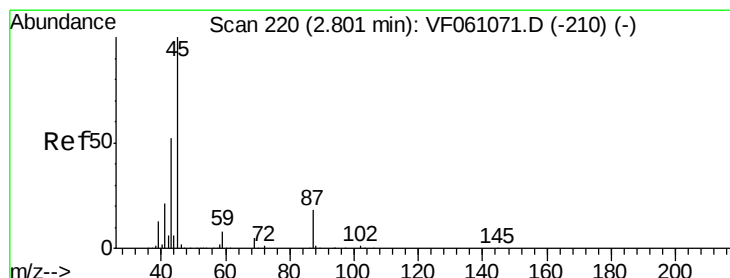
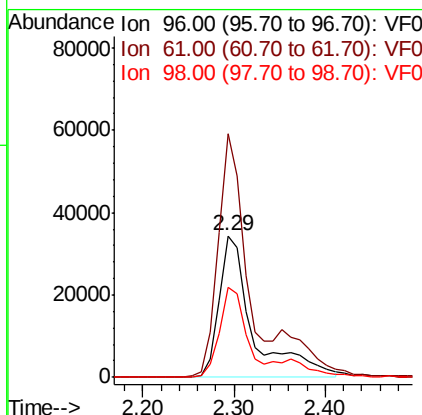
#21
trans-1,2-Dichloroethene
Concen: 51.822 ug/l m
RT: 2.29 min Scan# 169
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tot Ion	Ratio	Lower	Upper
96	100		
61	171.8	146.0	219.0
98	63.1	51.6	77.4

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

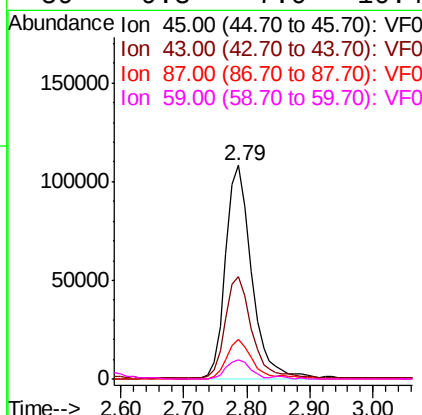
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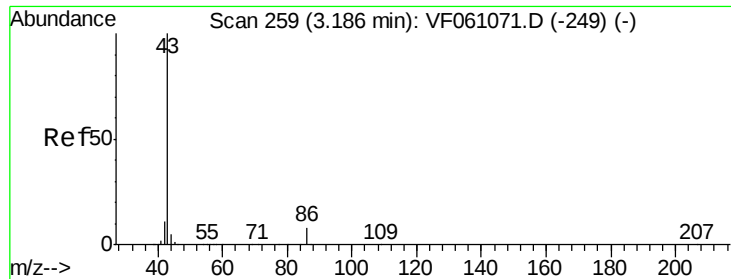
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#22
Diisopropyl ether
Concen: 55.609 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	47.8	42.2	63.2
87	18.5	14.6	22.0
59	9.3	7.0	10.4





#23

Vinyl Acetate

Concen: 270.040 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 698808

Ion Ratio Lower Upper

43 100

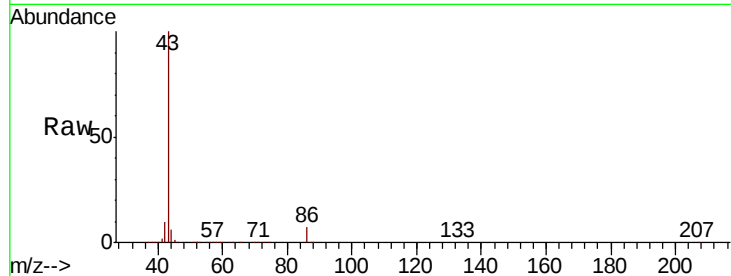
86 7.3 6.3 9.5

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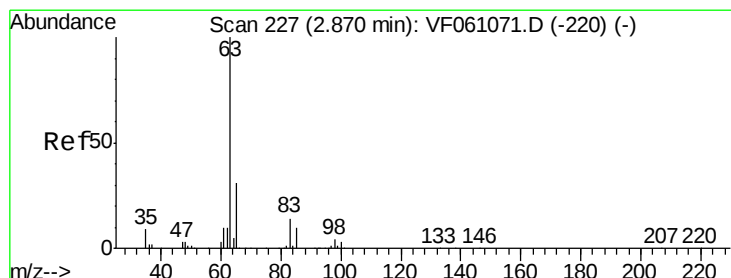
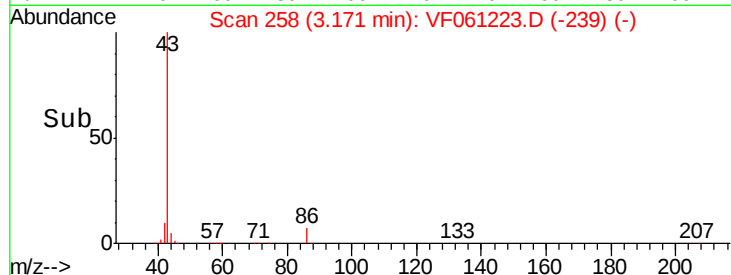
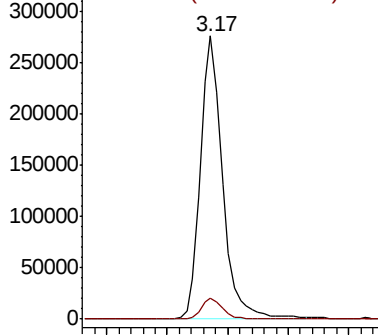
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 54.464 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

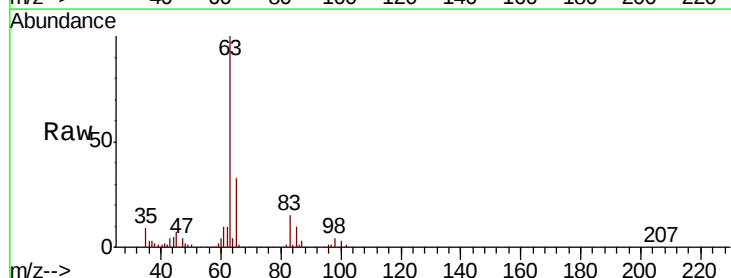
Tgt Ion: 63 Resp: 181017

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.5

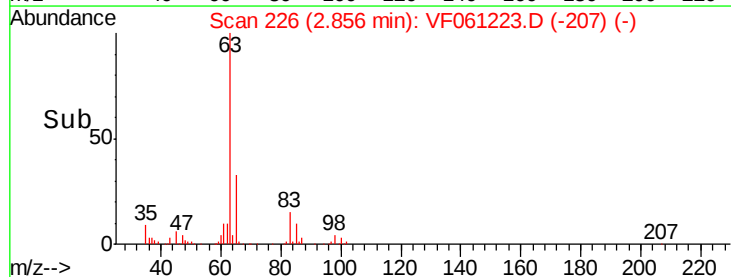
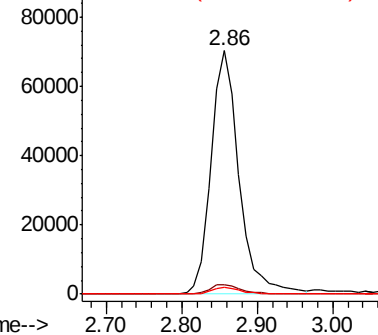
100 3.0 1.7 5.1

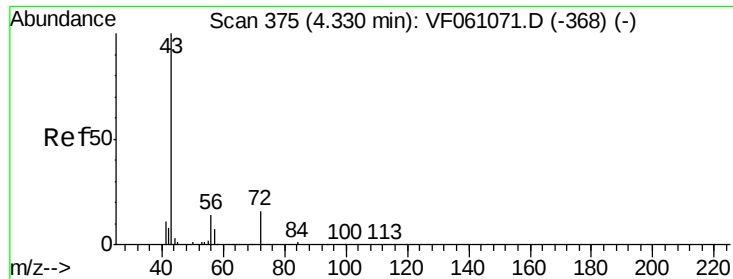


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 247.513 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 189474

Ion Ratio Lower Upper

43 100

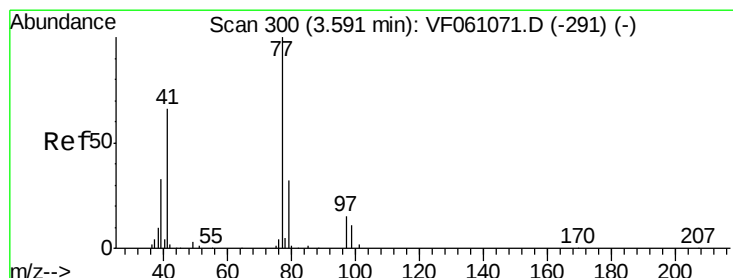
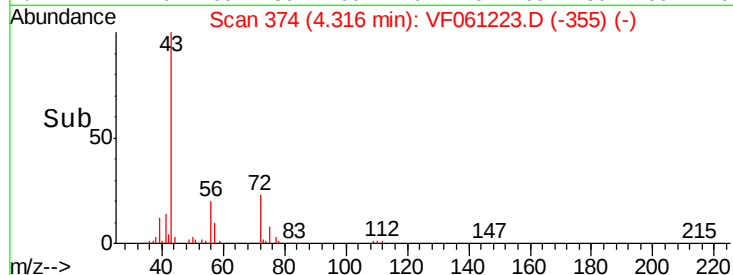
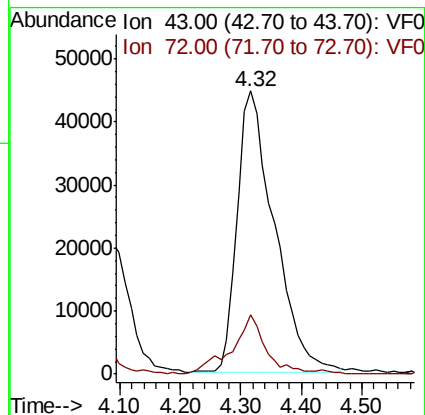
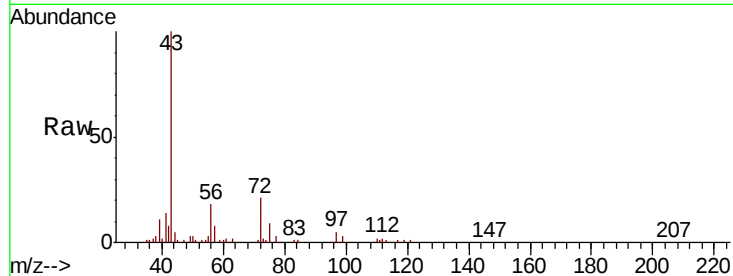
72 21.0 15.6 23.4

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#26

2,2-Dichloropropane

Concen: 51.426 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061223.D

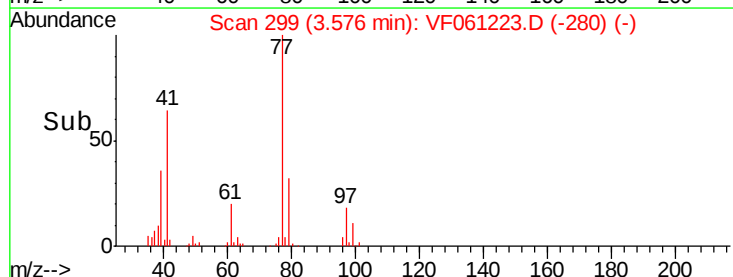
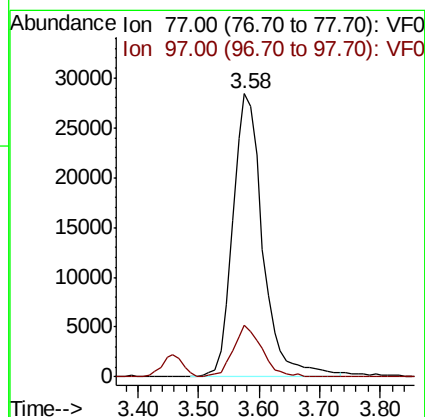
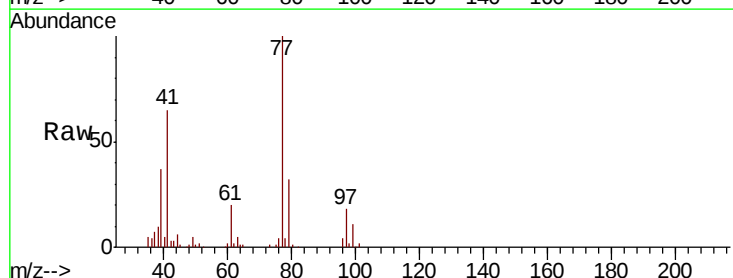
Acq: 27 Dec 2018 22:26

Tgt Ion: 77 Resp: 98088

Ion Ratio Lower Upper

77 100

97 18.1 8.2 24.4





#27

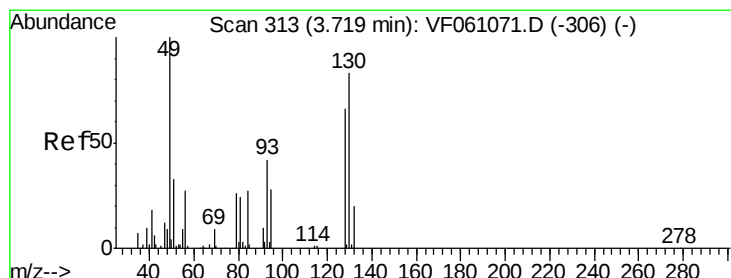
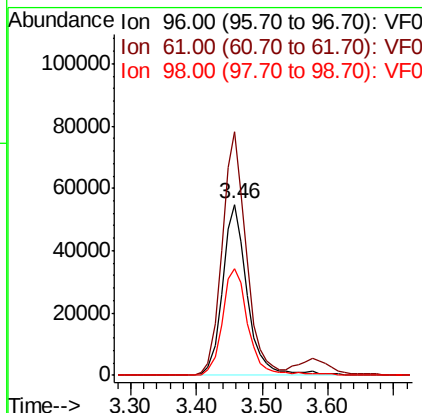
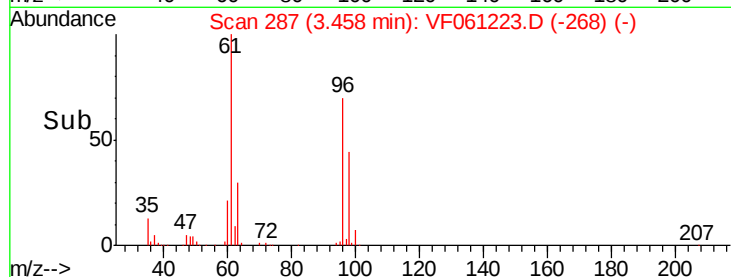
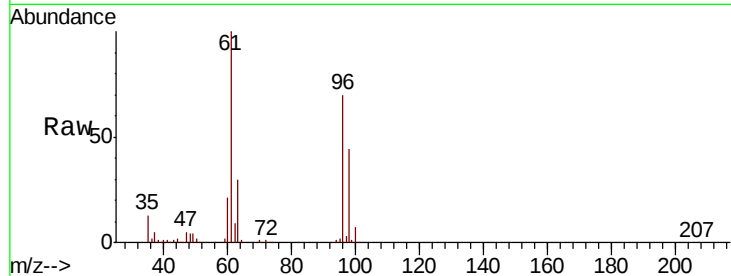
cis-1,2-Dichloroethene
Concen: 54.248 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	143740		
61	142.7	0.0	287.8	
98	62.5	0.0	134.2	

Manual Integrations
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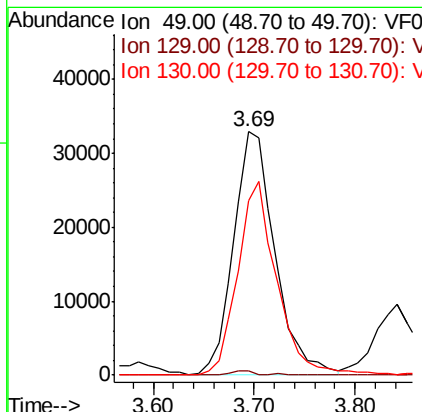
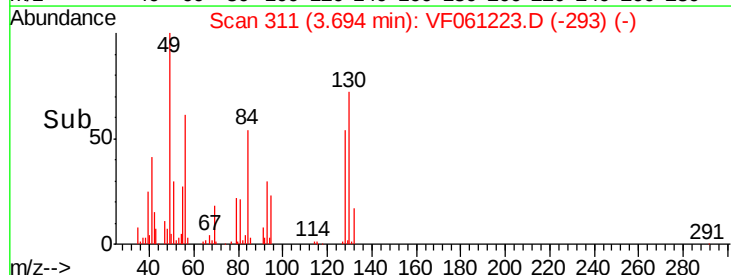
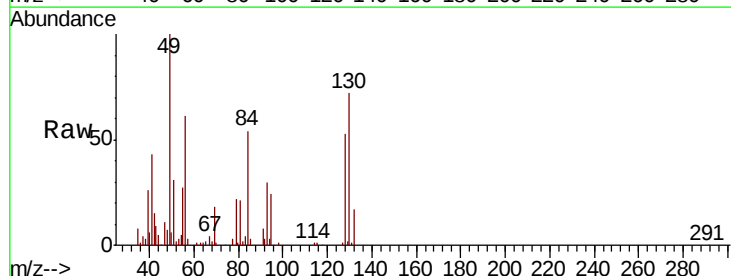
MMDadoda
12/28/2018 9:38:55 AM

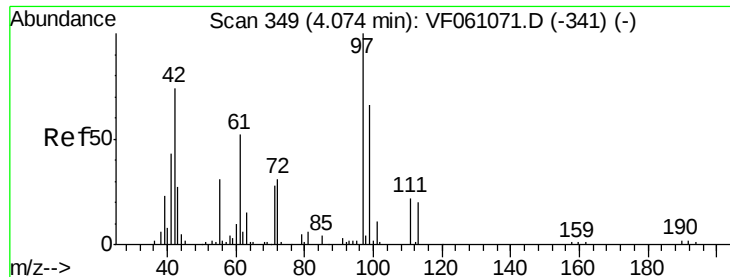


#28

Bromochloromethane
Concen: 55.837 ug/l
RT: 3.69 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	94163		
129	1.9	0.0	3.6	
130	71.6	65.8	98.6	





#29

Tetrahydrofuran

Concen: 266.292 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

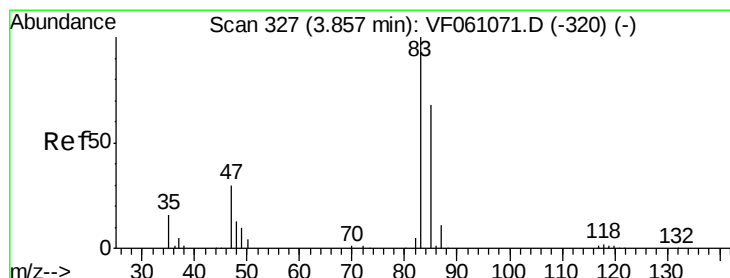
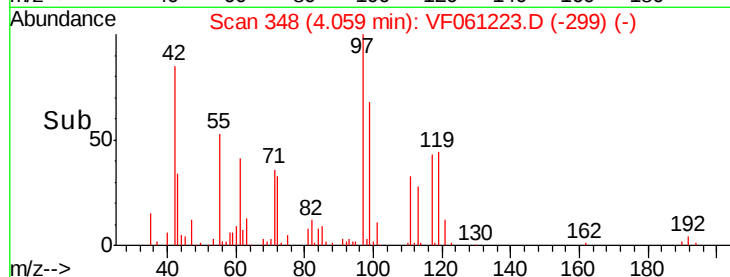
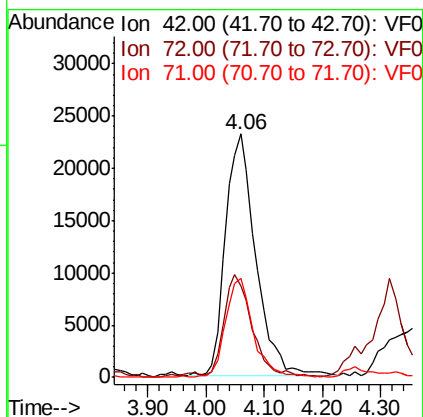
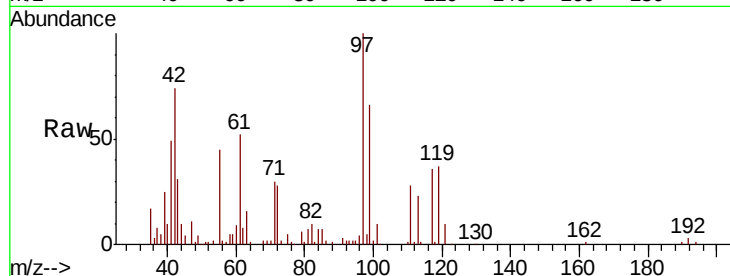
ClientSampleId :

VSTDCCC050EC

Tot Ion:	42	Resp:	82969
Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.8	47.8
71	37.8	29.7	44.5

Manual Integrations
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#30

Chloroform

Concen: 51.414 ug/l

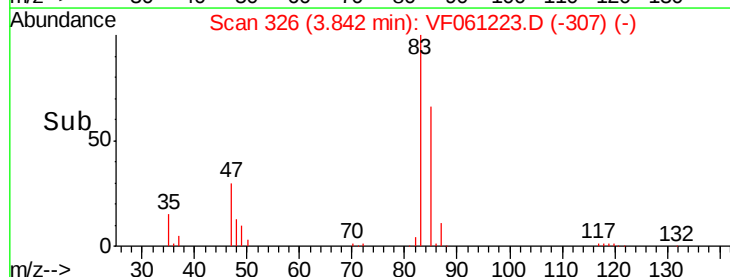
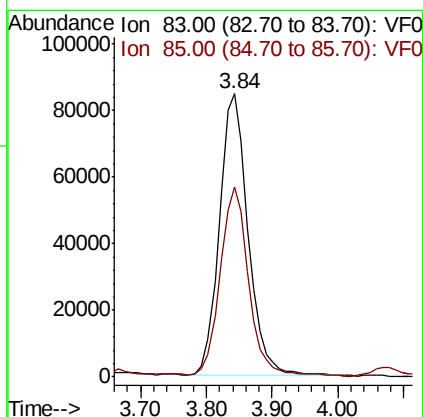
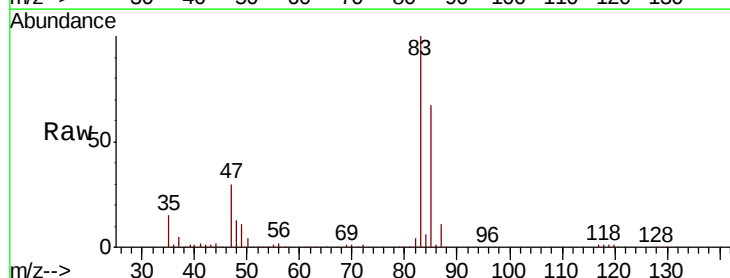
RT: 3.84 min Scan# 326

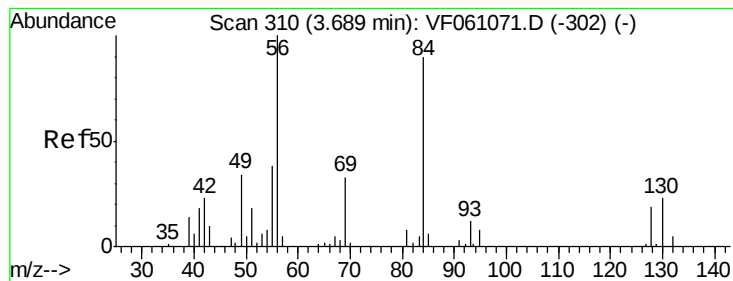
Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Tgt Ion:	83	Resp:	256222
Ion	Ratio	Lower	Upper
83	100		
85	67.0	54.5	81.7





#31

Cyclohexane

Concen: 53.064 ug/l

RT: 3.67 min Scan# 309

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

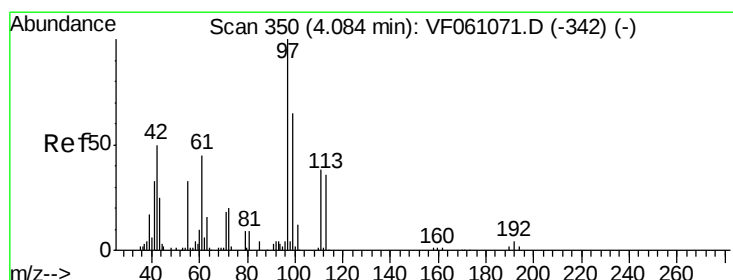
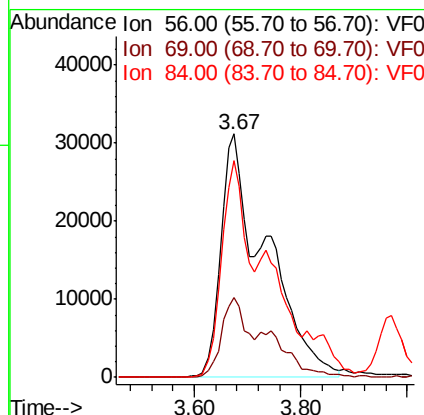
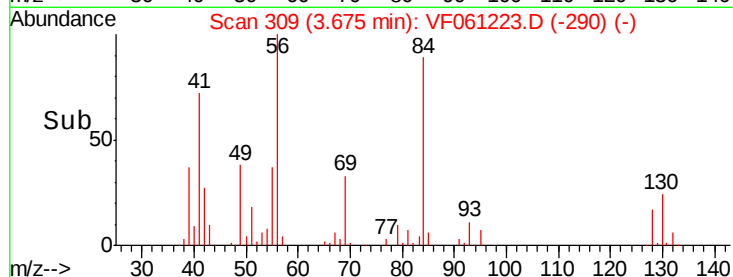
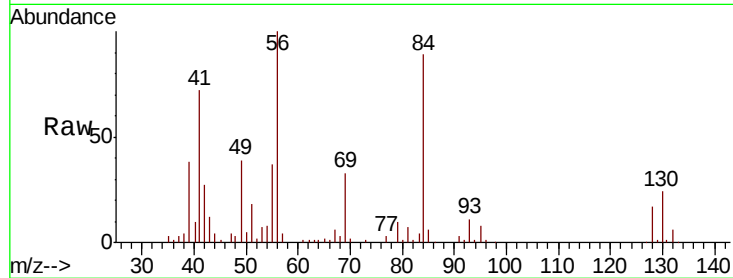
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	183007
Ion Ratio	Lower	Upper	
56	100		
69	32.8	26.0	39.0
84	89.0	71.4	107.2

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#32

1,1,1-Trichloroethane

Concen: 58.410 ug/l

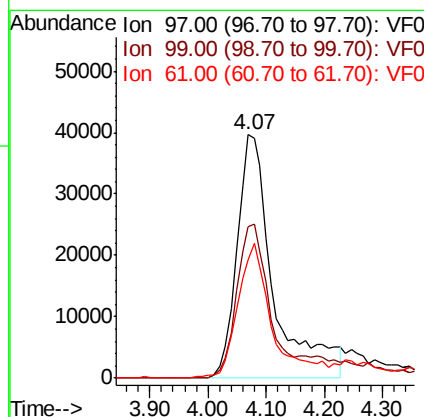
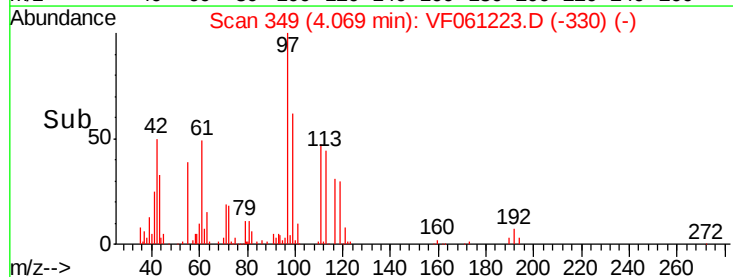
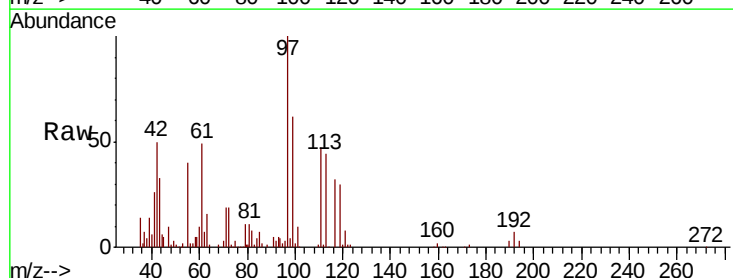
RT: 4.07 min Scan# 349

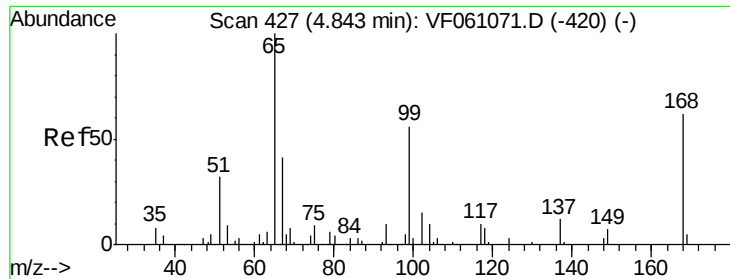
Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Tgt Ion:	97	Resp:	174472
Ion Ratio	Lower	Upper	
97	100		
99	62.4	51.6	77.4
61	48.7	36.2	54.2





#33

1,2-Dichloroethane-d4

Concen: 45.829 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 108207

Ion Ratio Lower Upper

65 100

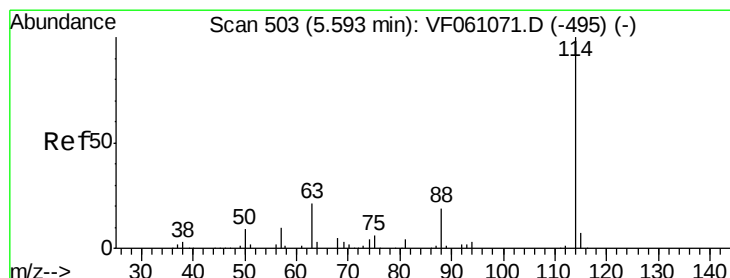
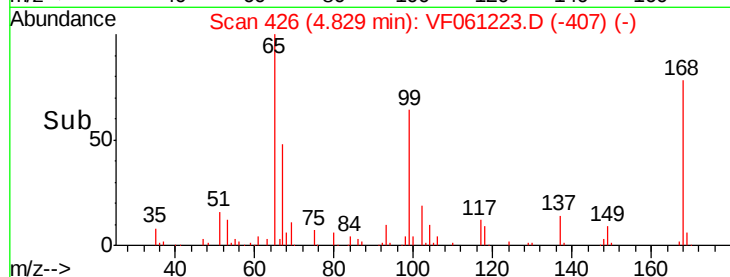
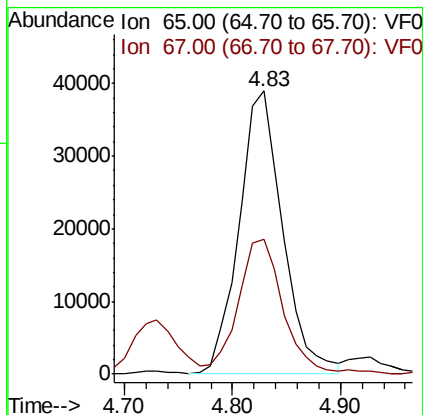
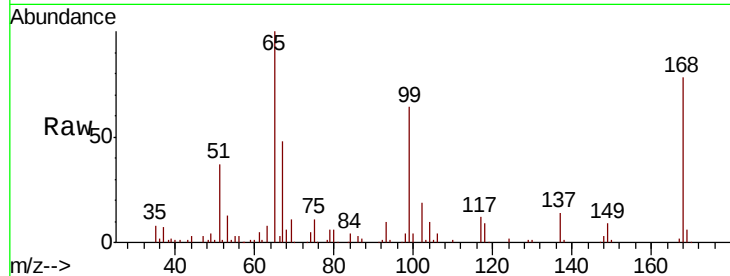
67 47.8 0.0 94.6

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

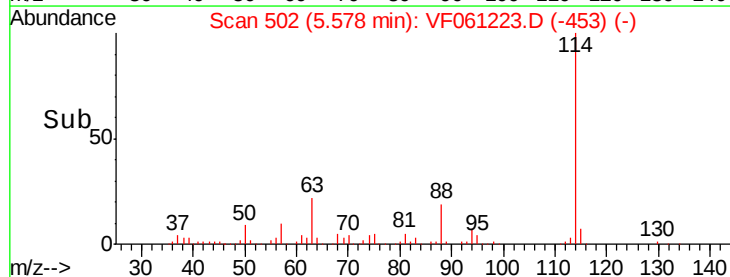
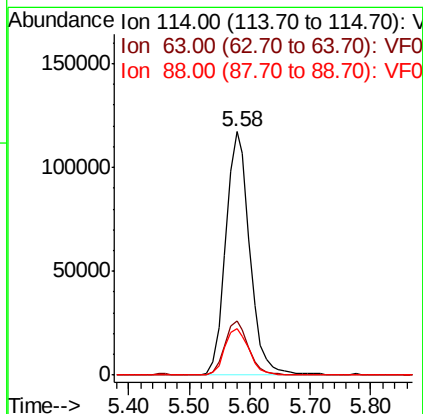
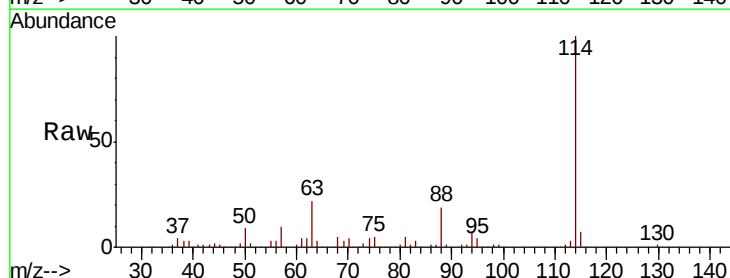
Tgt Ion: 114 Resp: 323038

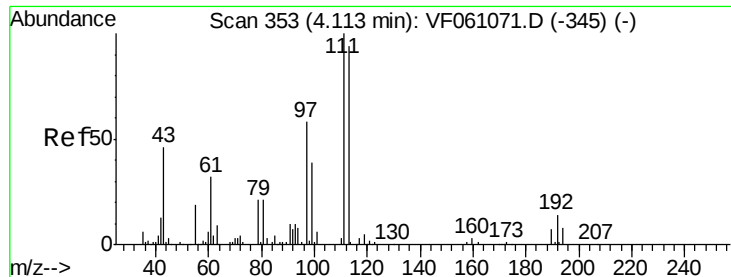
Ion Ratio Lower Upper

114 100

63 22.3 0.0 41.6

88 19.2 0.0 38.0





#35

Dibromofluoromethane

Concen: 44.671 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:113 Resp: 115596

Ion Ratio Lower Upper

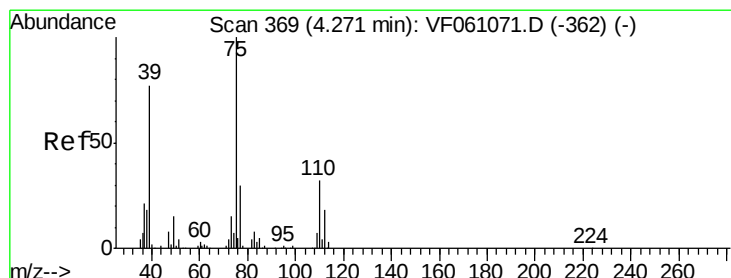
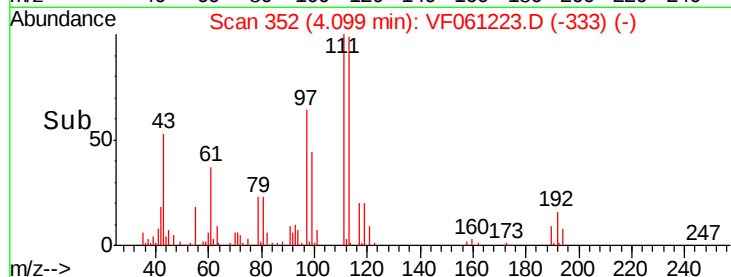
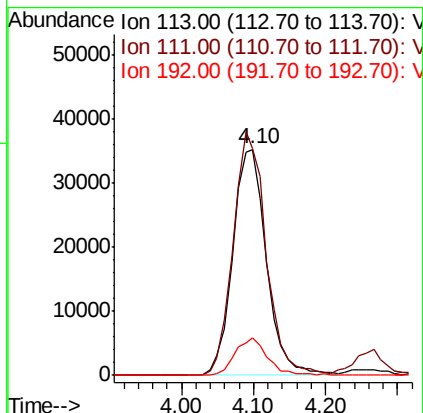
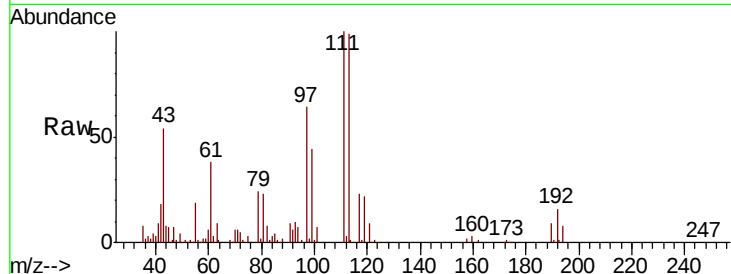
113 100

111 100.5 85.2 127.8

192 17.3 12.8 19.2

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#36

1,1-Dichloropropene

Concen: 48.098 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

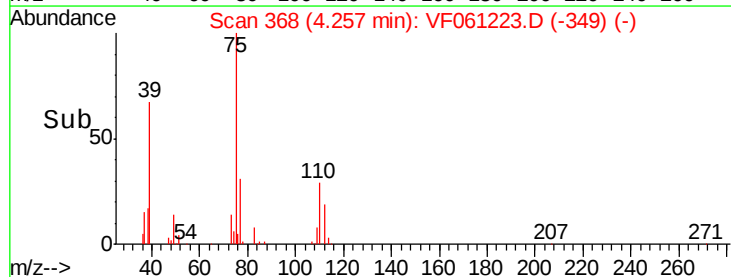
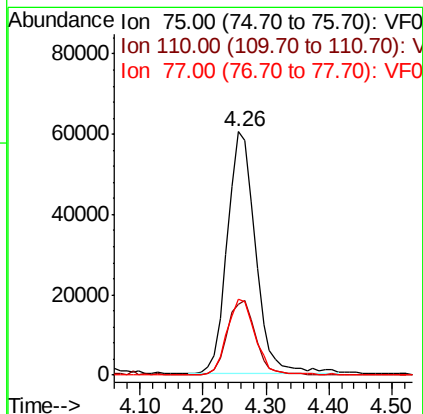
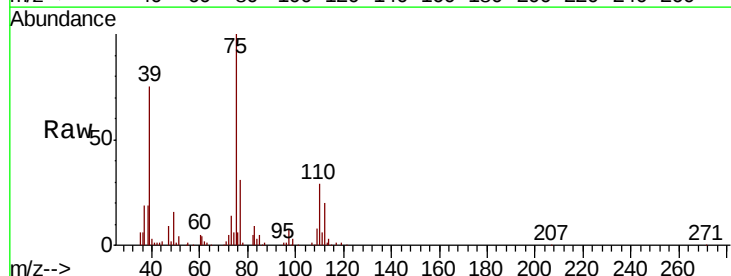
Tgt Ion: 75 Resp: 187548

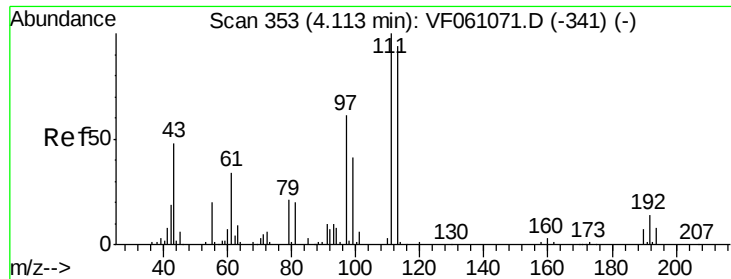
Ion Ratio Lower Upper

75 100

110 29.1 16.1 48.2

77 31.0 24.5 36.7





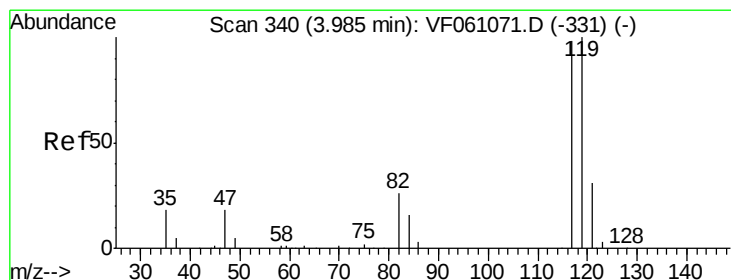
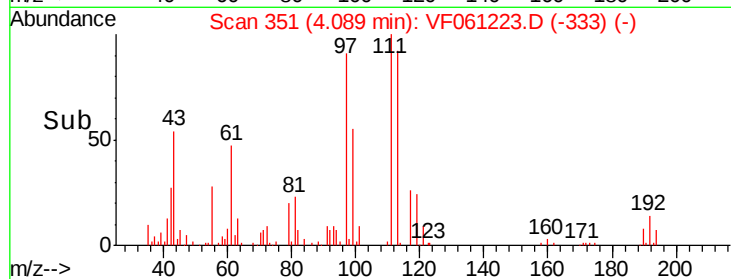
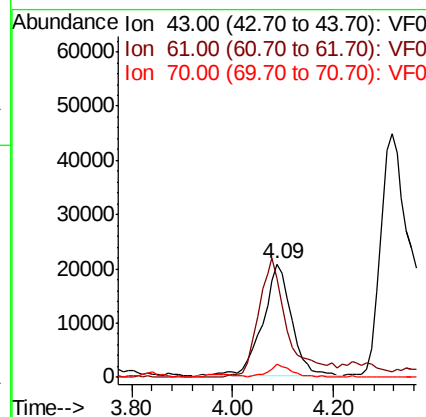
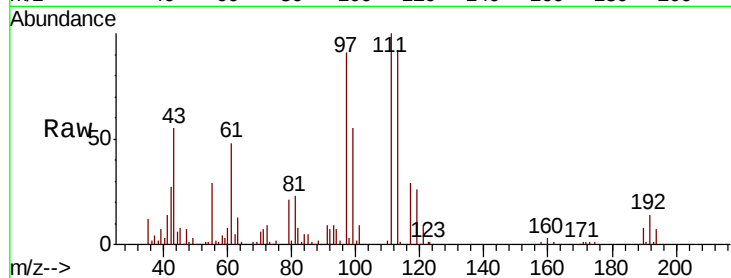
#37
Ethyl Acetate
Concen: 55.015 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	87.1	56.6	84.8#
70	11.6	6.3	9.5#

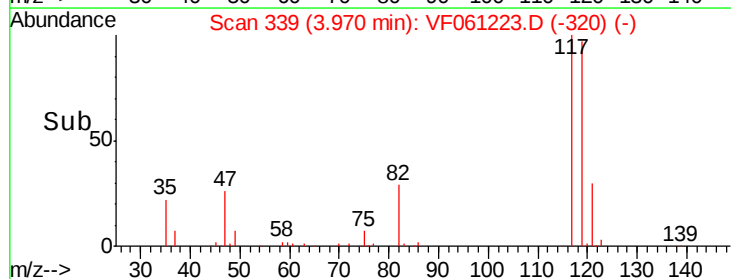
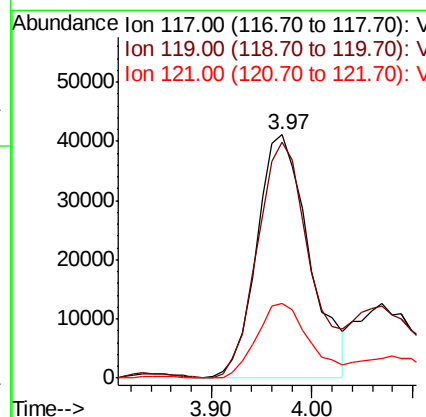
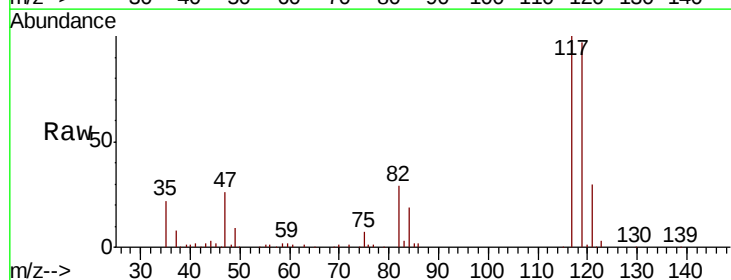
Manual Integrations
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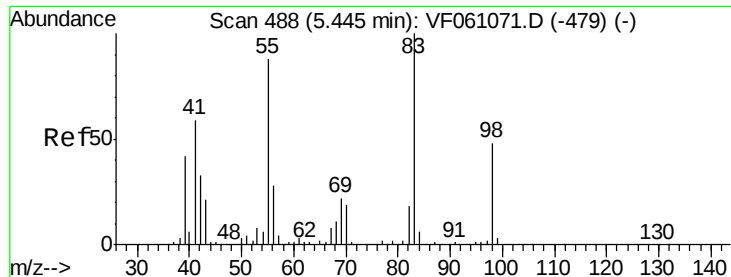
MMDadoda
12/28/2018 9:38:55 AM



#38
Carbon Tetrachloride
Concen: 49.975 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	82.1	123.1
121	30.5	25.5	38.3





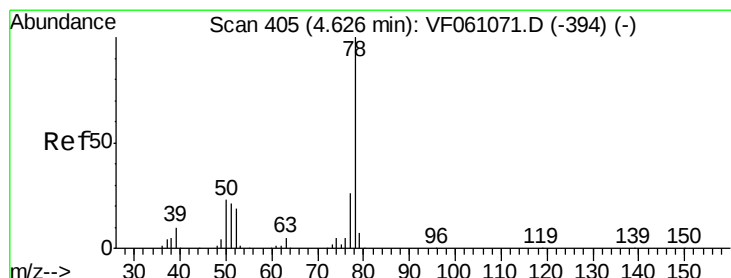
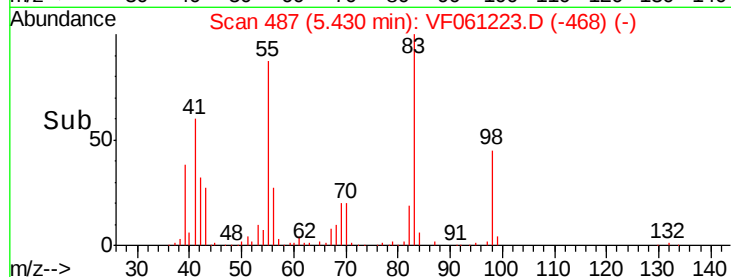
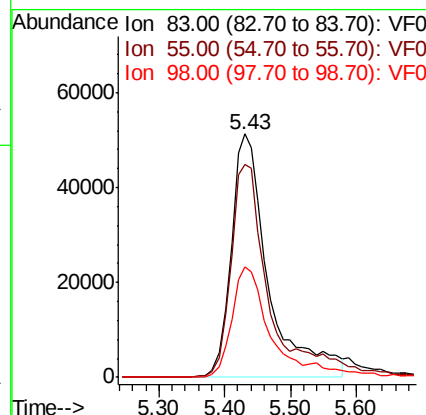
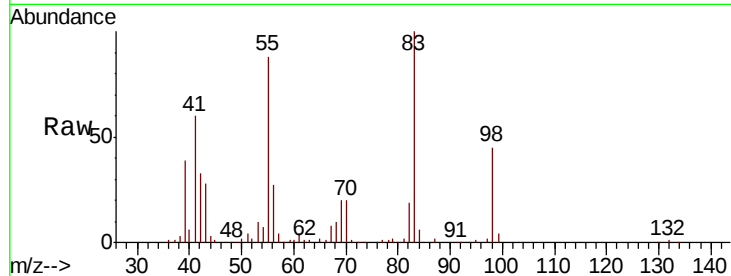
#39
Methvlcvclohexane
Concen: 58.233 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.5	70.6	105.8
98	45.2	38.5	57.7

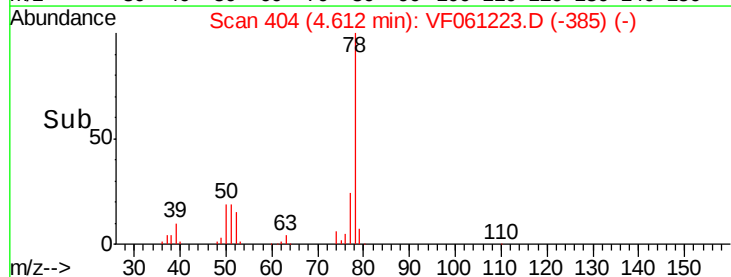
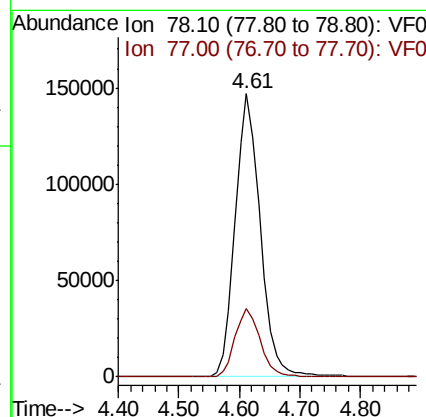
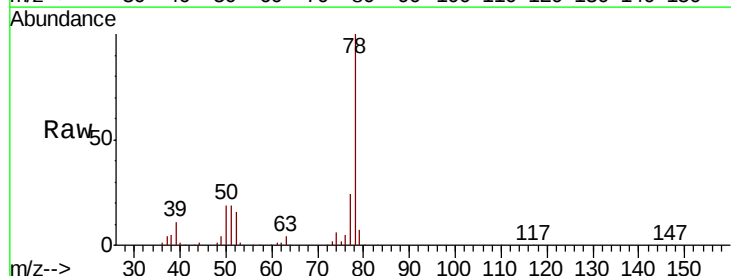
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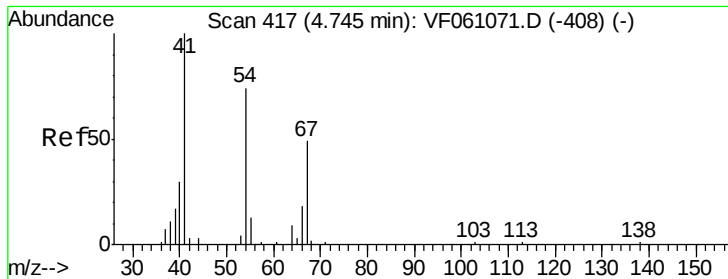
MMDadoda
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#40
Benzene
Concen: 50.693 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	20.7	31.1





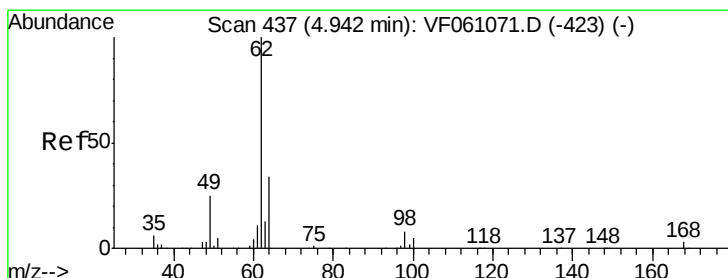
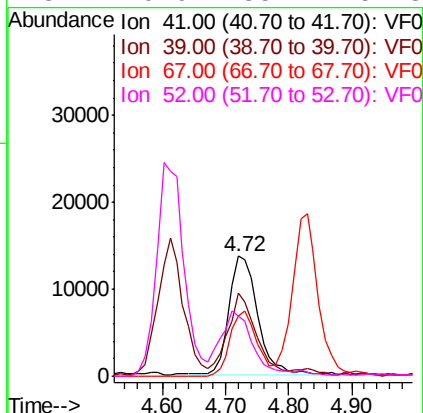
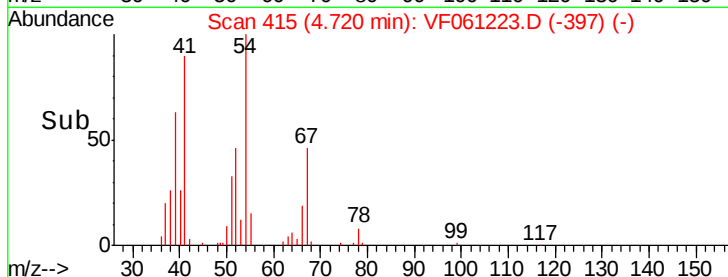
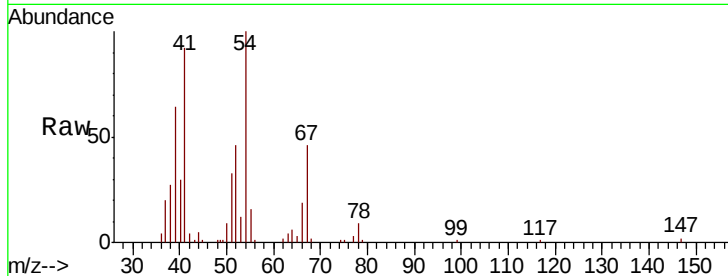
#41
Methacrylonitrile
Concen: 52.127 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.3	45.7	68.5#
67	49.8	38.9	58.3
52	49.9	35.2	52.8

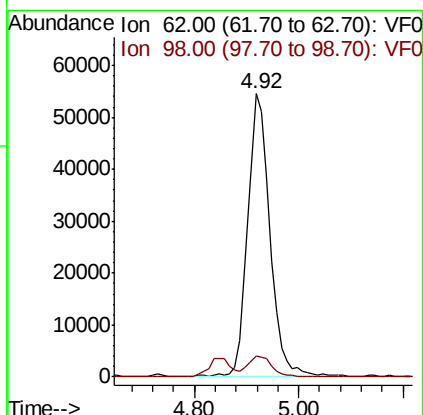
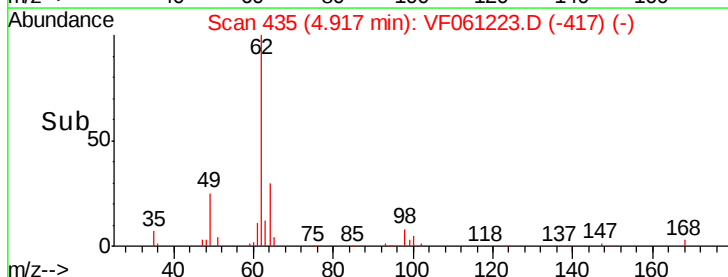
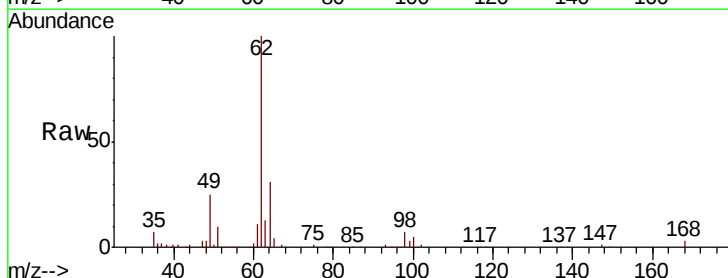
Manual Integrations
APPROVED

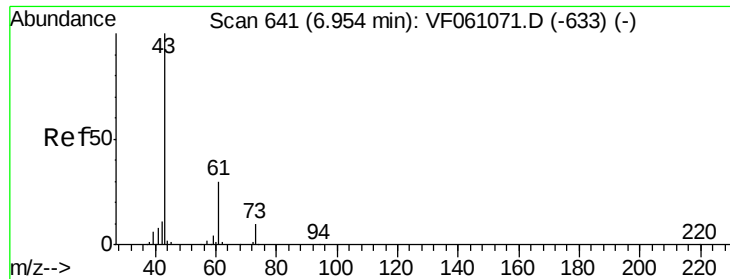
MMDadoda
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#42
1,2-Dichloroethane
Concen: 49.214 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	16.6





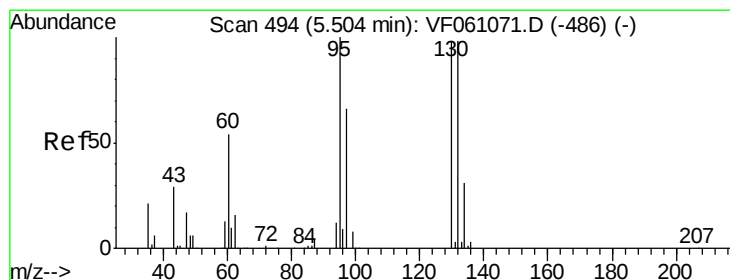
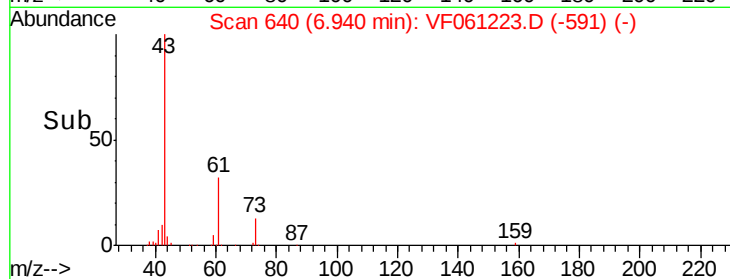
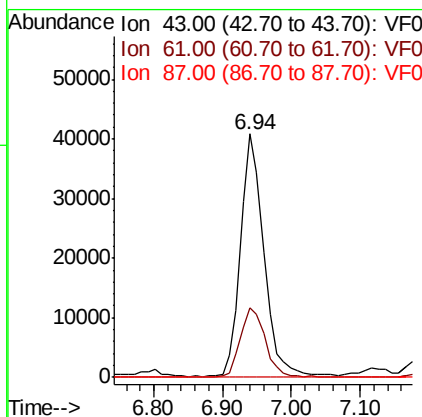
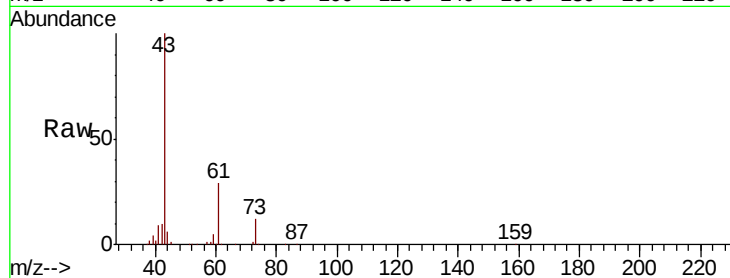
#43
Isopropyl Acetate
Concen: 51.869 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	23.8	35.8
87	0.2	0.0	0.0#

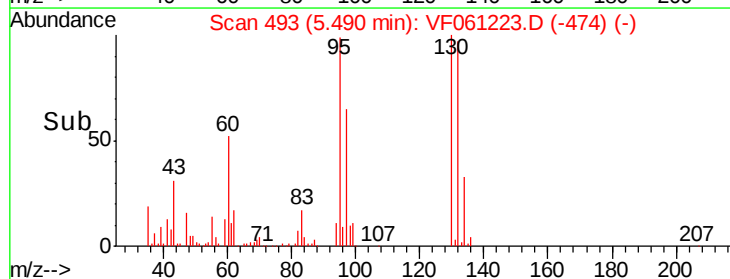
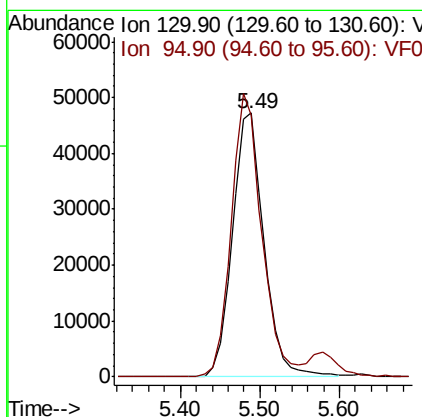
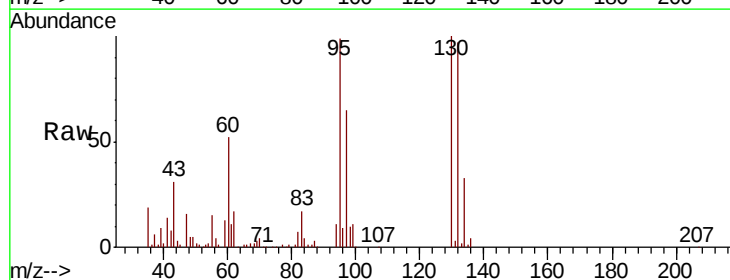
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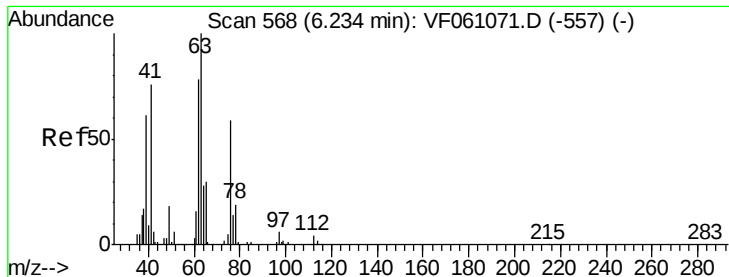
MMDadoda
12/28/2018 9:38:55 AM



#44
Trichloroethene
Concen: 49.083 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	205.2





#45

1,2-Dichloropropane

Concen: 52.712 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 120258

Ion Ratio Lower Upper

63 100

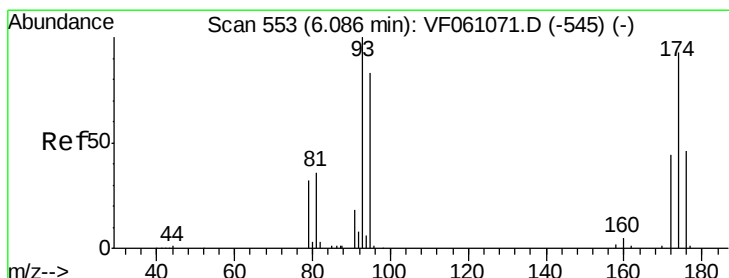
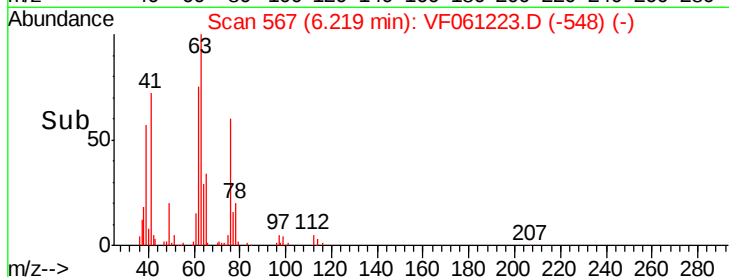
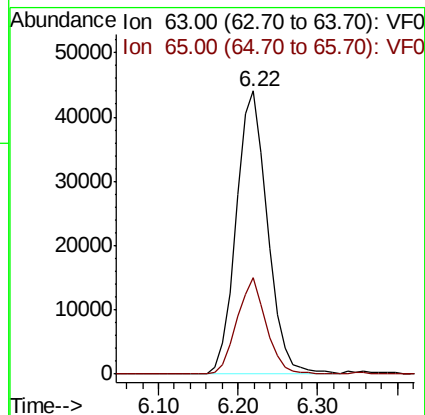
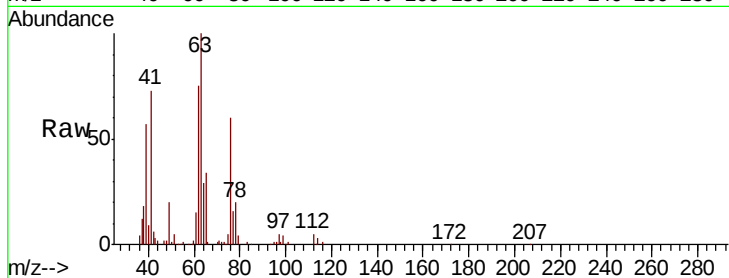
65 34.3 24.4 36.6

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#46

Dibromomethane

Concen: 52.191 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

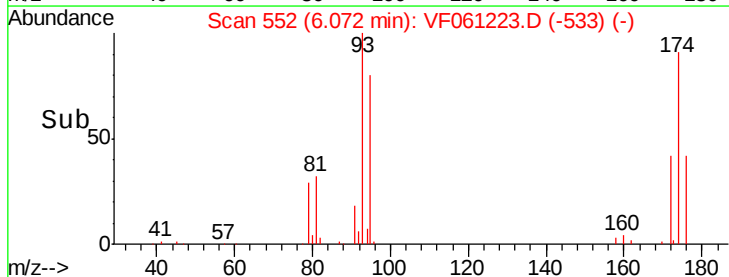
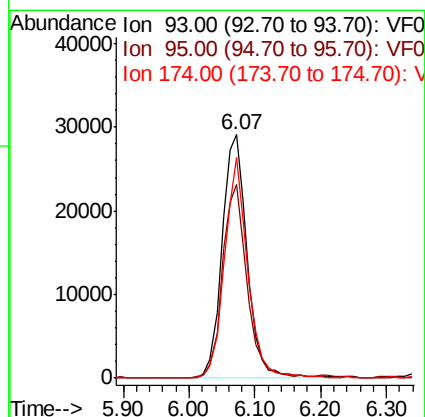
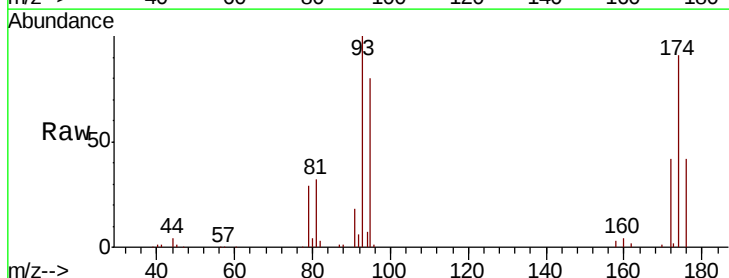
Tgt Ion: 93 Resp: 77227

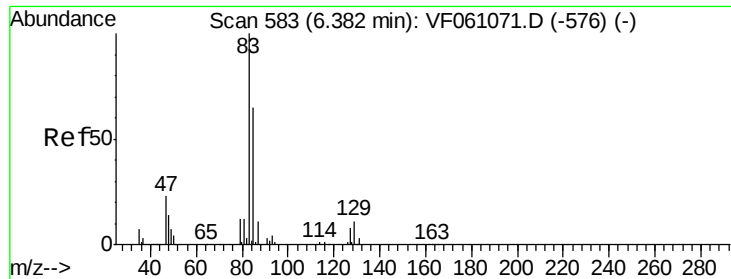
Ion Ratio Lower Upper

93 100

95 79.6 66.9 100.3

174 90.8 74.1 111.1





#47

Bromodichloromethane

Concen: 50.887 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

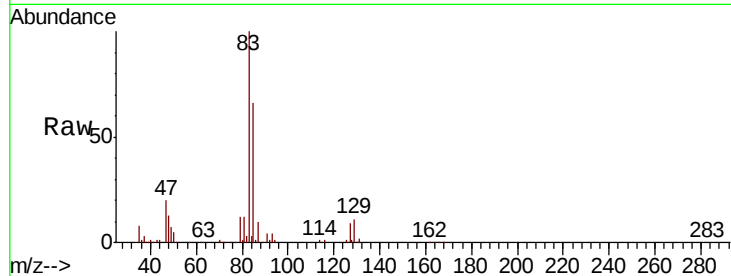
ClientSampleId :

VSTDCCC050EC

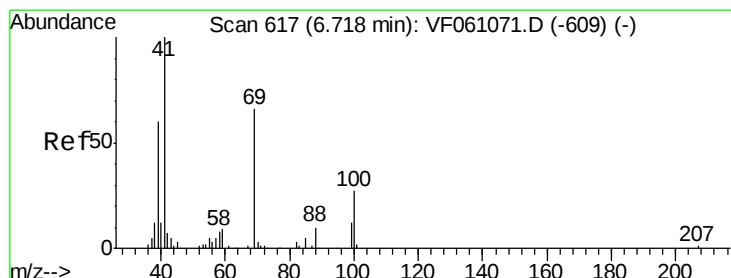
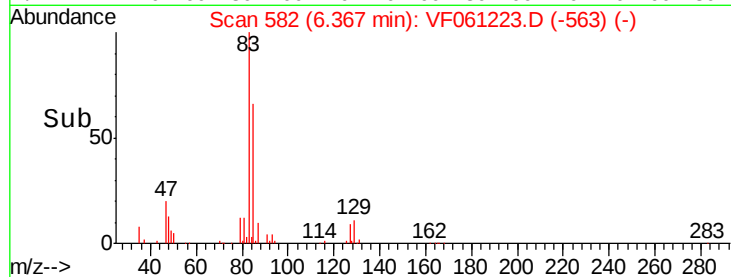
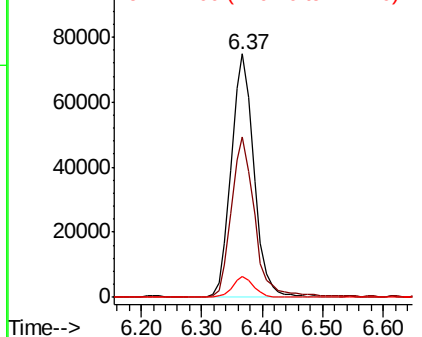
Tot Ion:	83	Resp:	195642
Ion Ratio	Lower	Upper	
83	100		
85	66.0	52.2	78.4
127	8.7	6.1	9.1

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 58.583 ug/l

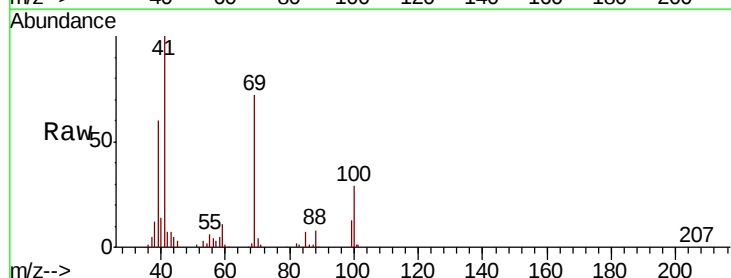
RT: 6.70 min Scan# 616

Delta R.T. -0.01 min

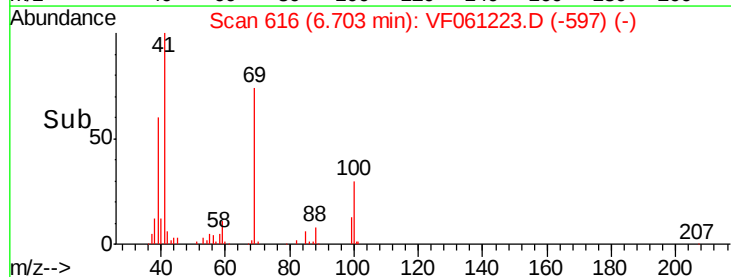
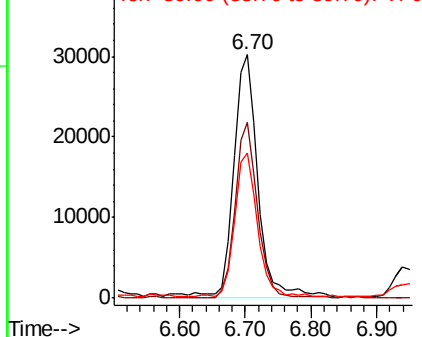
Lab File: VF061223.D

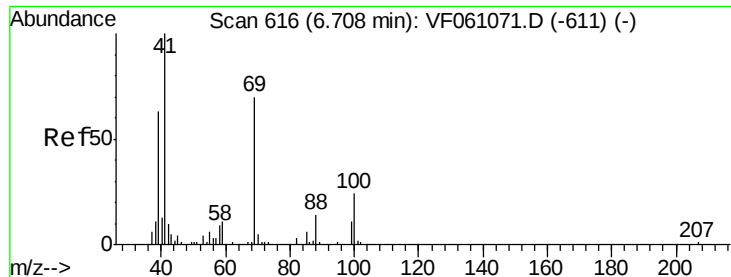
Acq: 27 Dec 2018 22:26

Tgt Ion:	41	Resp:	77000
Ion Ratio	Lower	Upper	
41	100		
69	72.4	52.7	79.1
39	59.7	47.8	71.6



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





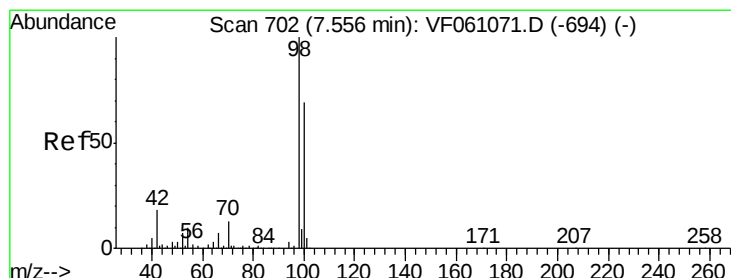
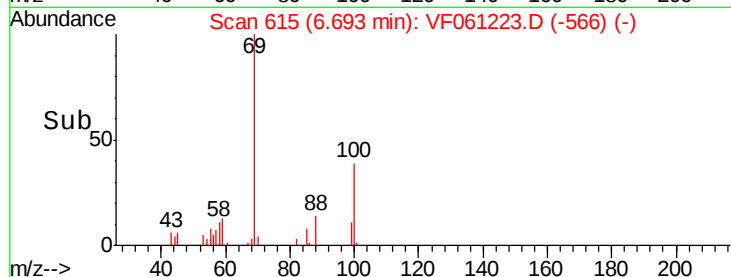
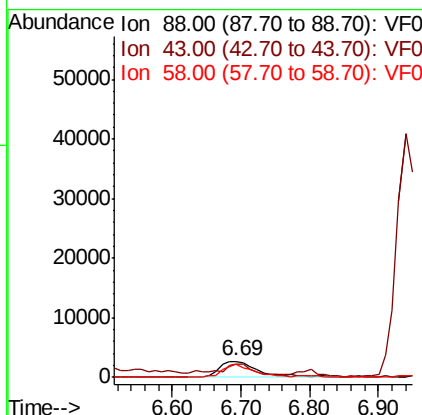
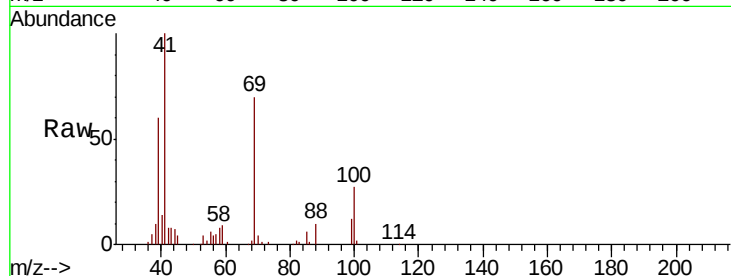
#49
1,4-Dioxane
Concen: 1126.759 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	83.5	33.3	49.9#	
58	82.0	53.2	79.8#	

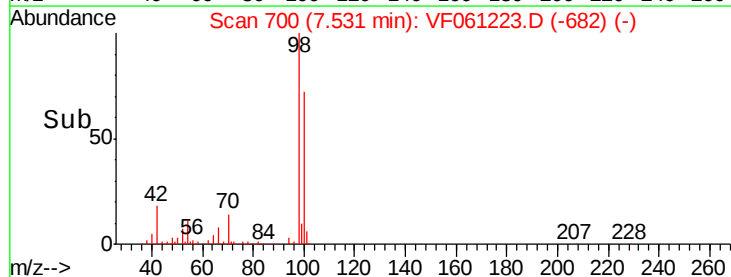
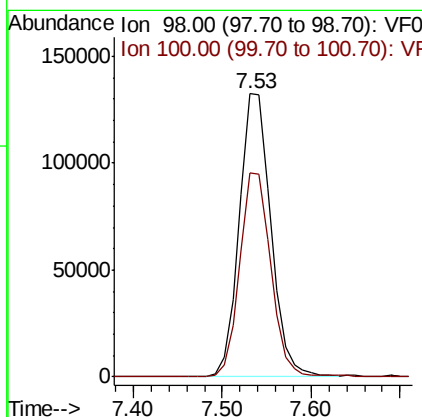
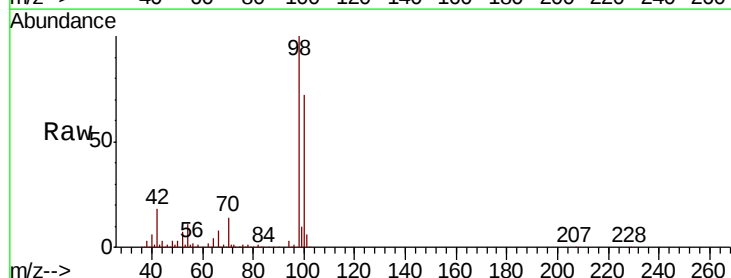
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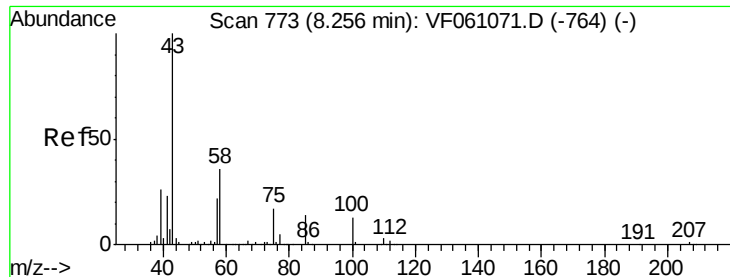
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#50
Toluene-d8
Concen: 44.519 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	72.0	55.3	82.9	





#51

4-Methyl-2-Pentanone

Concen: 249.888 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 322667

Ion Ratio Lower Upper

43 100

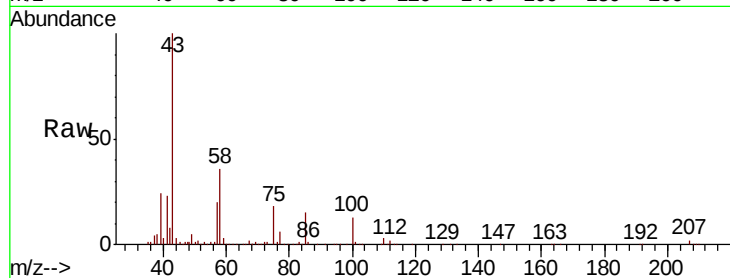
58 36.0 29.1 43.7

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

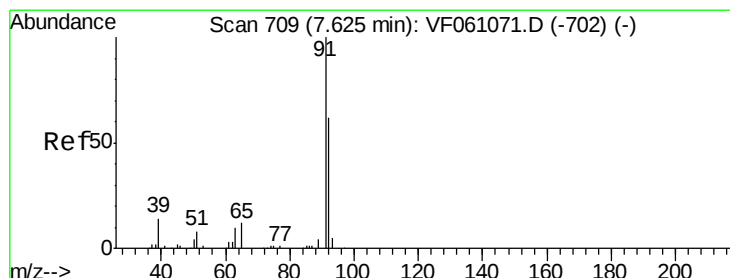
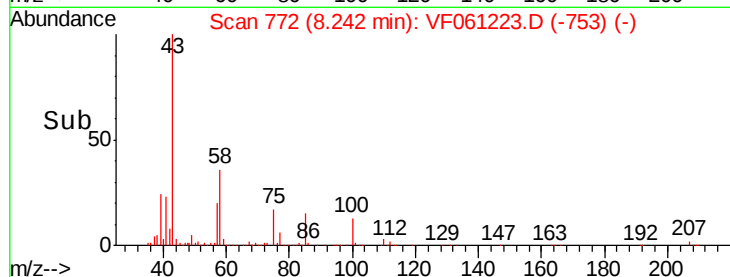
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 46.582 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061223.D

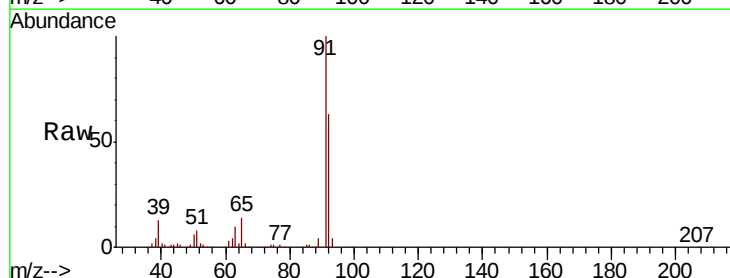
Acq: 27 Dec 2018 22:26

Tgt Ion: 92 Resp: 258566

Ion Ratio Lower Upper

92 100

91 158.3 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

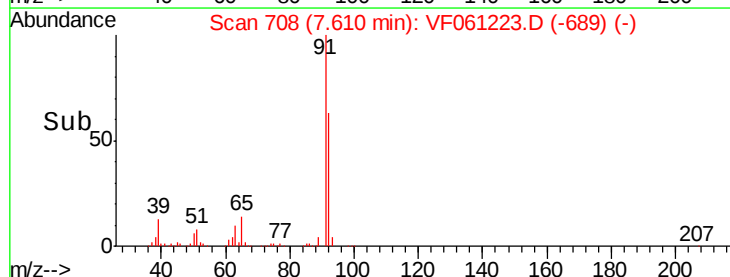
100000

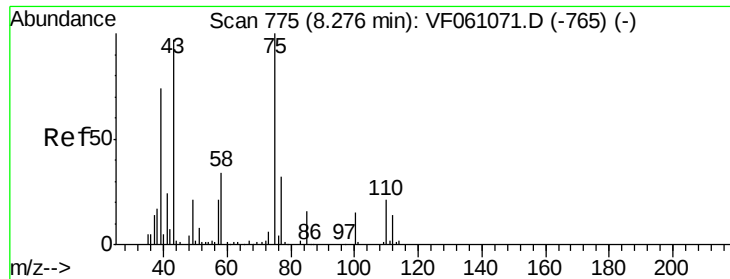
50000

0

7.50 7.60 7.70 7.80

Time-->





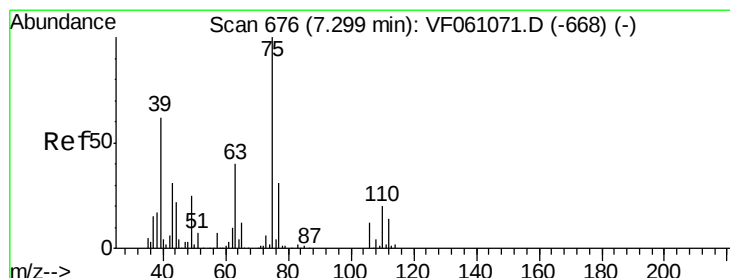
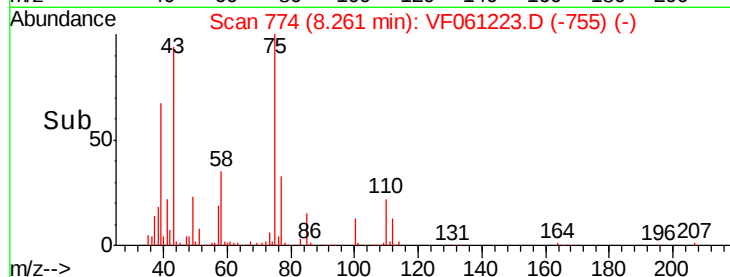
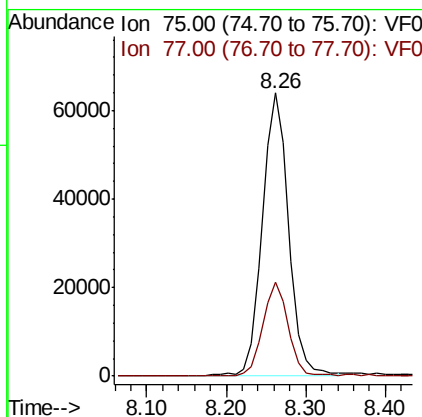
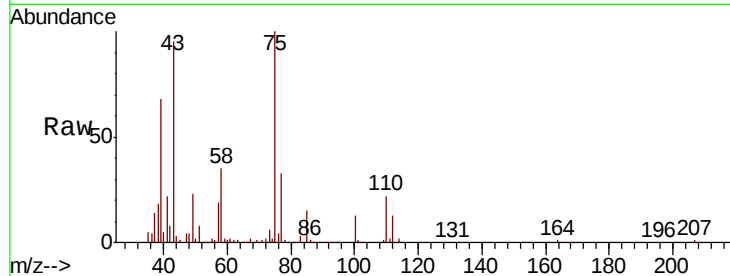
#53
t-1,3-Dichloropropene
Concen: 47.032 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.8	38.8

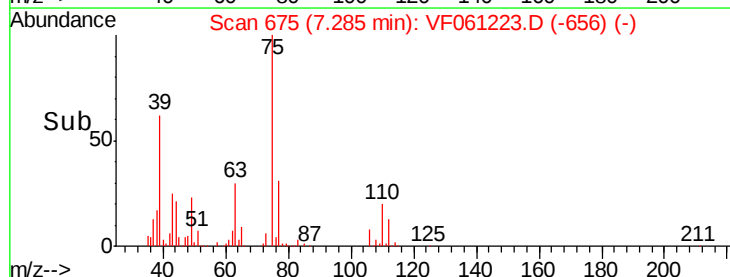
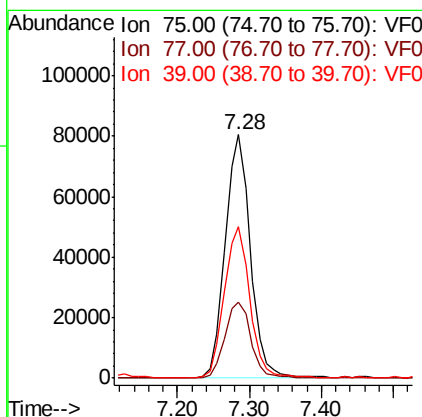
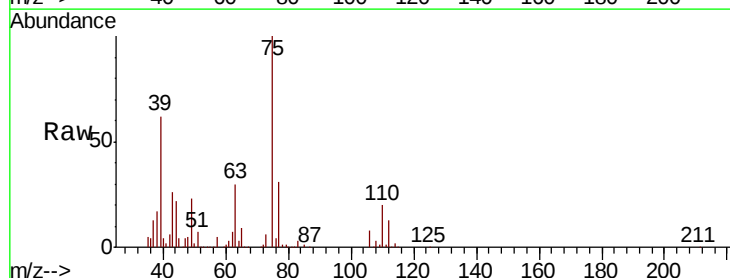
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#54
cis-1,3-Dichloropropene
Concen: 50.257 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.4
39	62.3	50.1	75.1





#55

1,1,2-Trichloroethane

Concen: 53.254 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

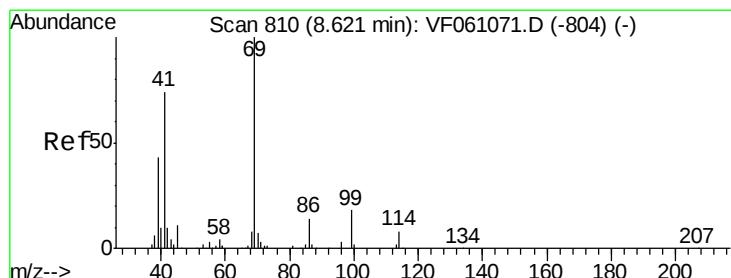
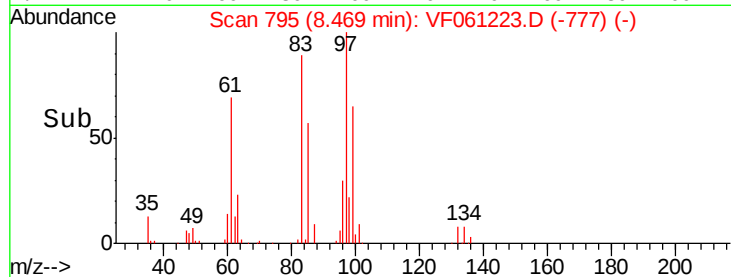
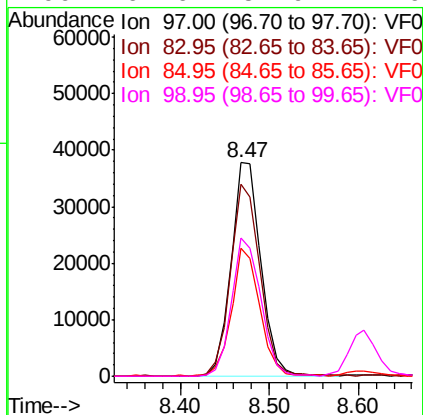
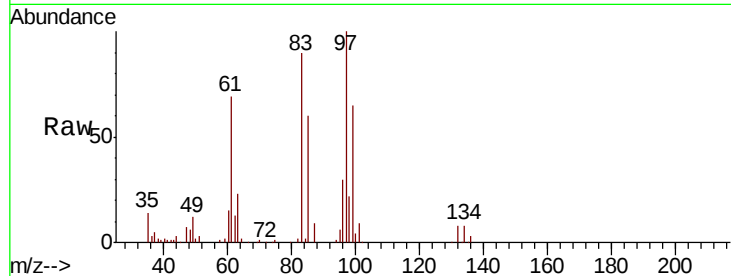
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	88616
Ion	Ratio	Lower	Upper
97	100		
83	89.8	75.0	112.4
85	59.8	47.5	71.3
99	64.6	51.9	77.9

Manual Integrations
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#56

Ethyl methacrylate

Concen: 52.054 ug/l

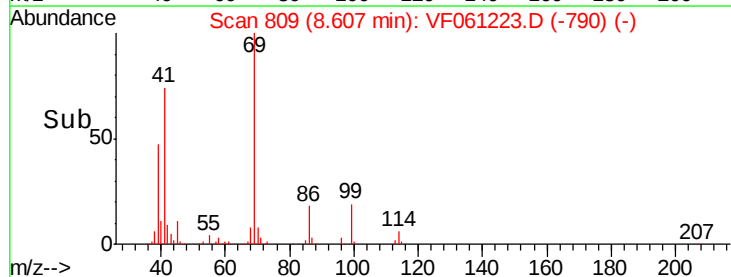
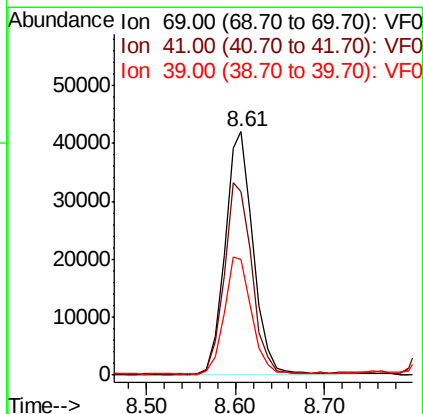
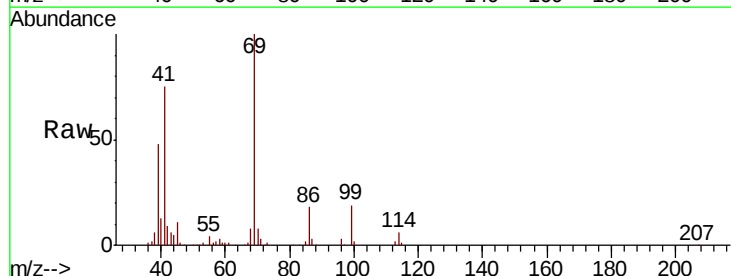
RT: 8.61 min Scan# 809

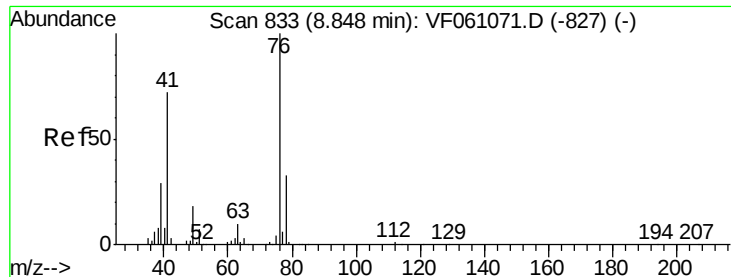
Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Tgt Ion:	69	Resp:	93729
Ion	Ratio	Lower	Upper
69	100		
41	75.1	59.7	89.5
39	47.6	35.0	52.6





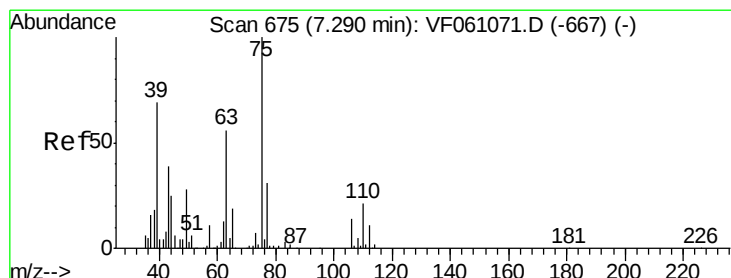
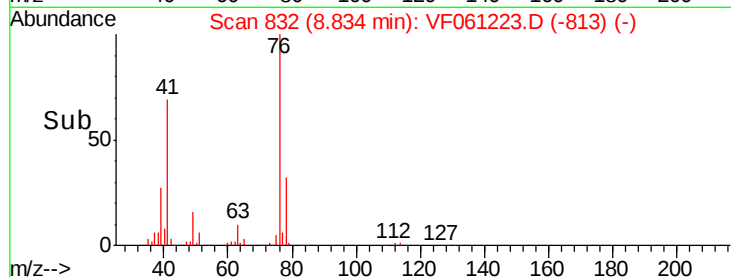
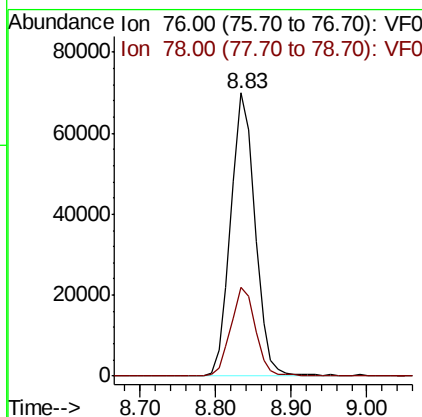
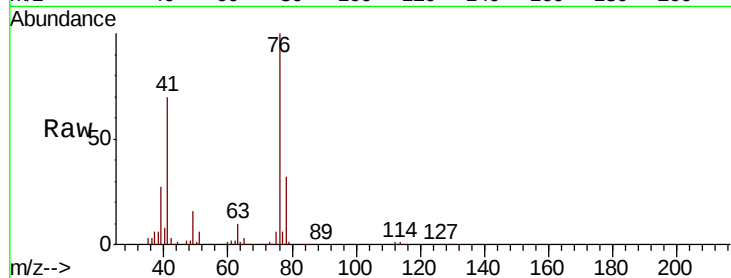
#57
 1,3-Dichloropropane
 Concen: 51.772 ug/l
 RT: 8.83 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.5	26.5	39.7

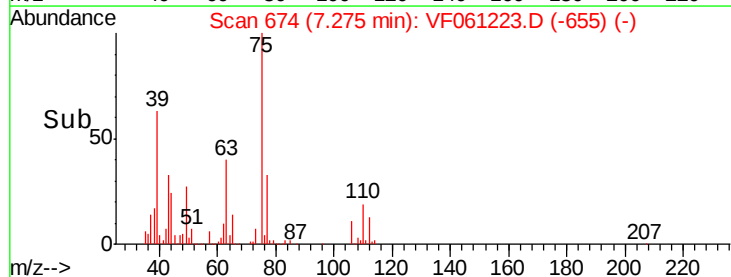
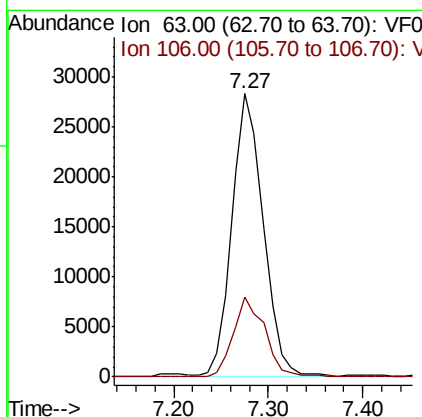
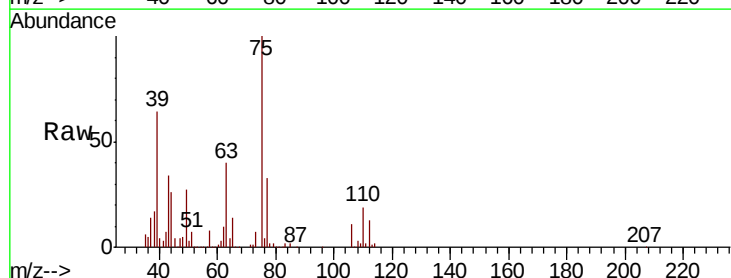
Manual Integrations
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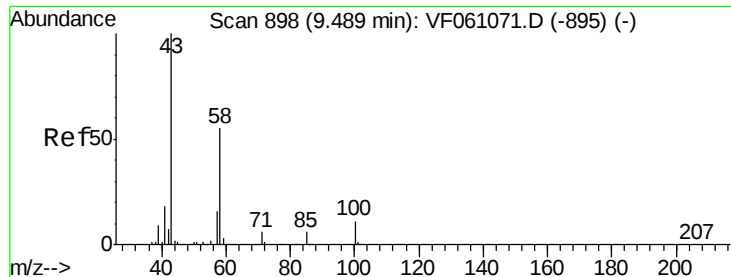
MMDadoda
 12/28/2018 9:38:55 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 188.943 ug/l
 RT: 7.27 min Scan# 674
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.0	19.8	29.8





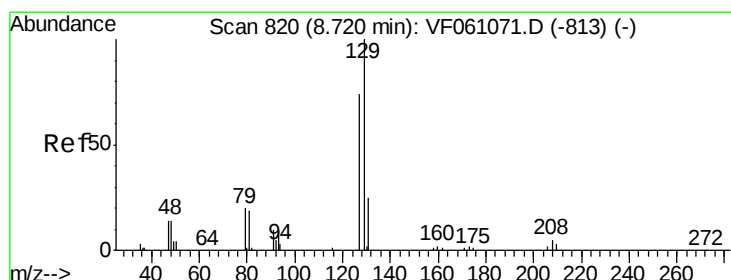
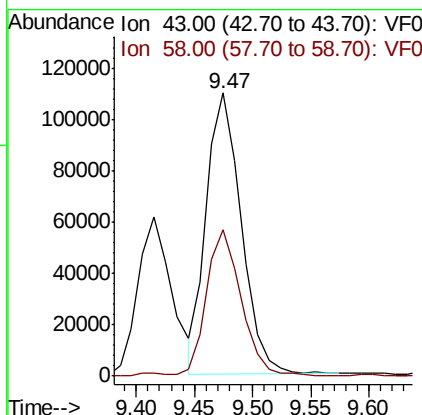
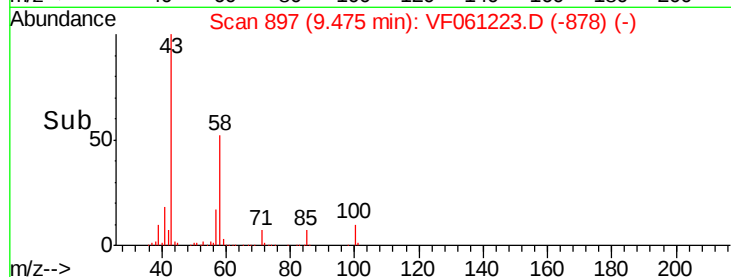
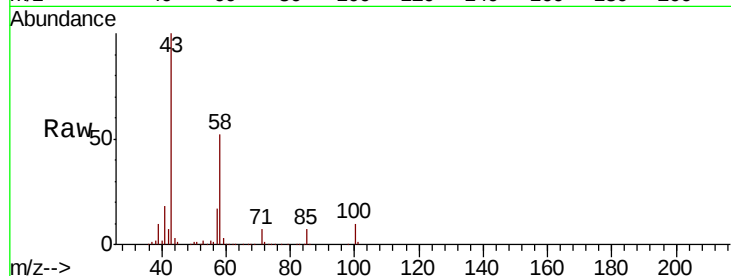
#59
2-Hexanone
Concen: 246.055 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 229766
Ion Ratio Lower Upper
43 100
58 51.9 25.1 75.2

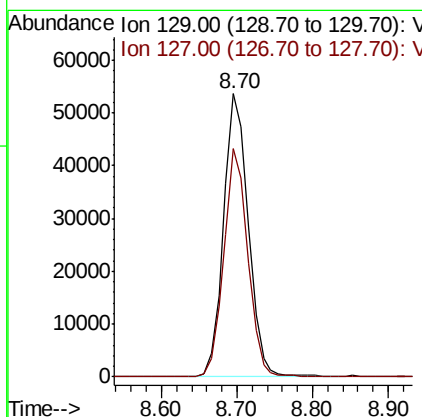
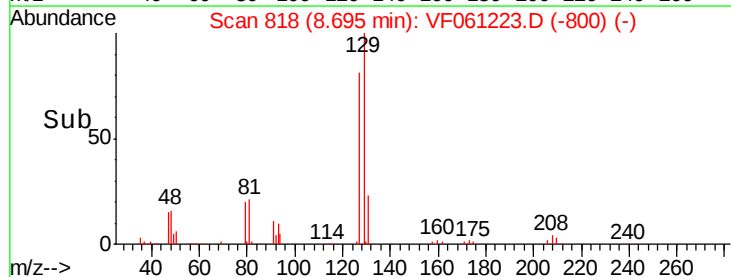
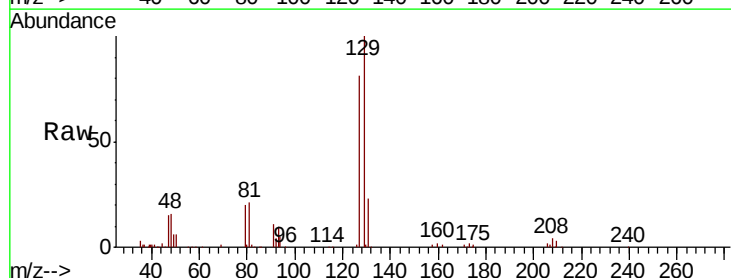
Manual Integrations
APPROVED

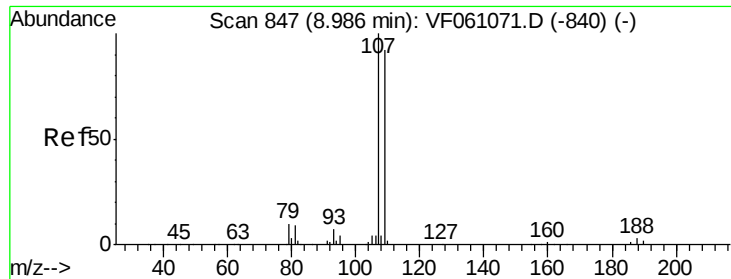
MMDadoda
12/28/2018 9:38:55 AM



#60
Dibromochloromethane
Concen: 50.903 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 129 Resp: 121420
Ion Ratio Lower Upper
129 100
127 80.7 36.8 110.3





#61

1,2-Dibromoethane

Concen: 52.396 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 93116

Ion Ratio Lower Upper

107 100

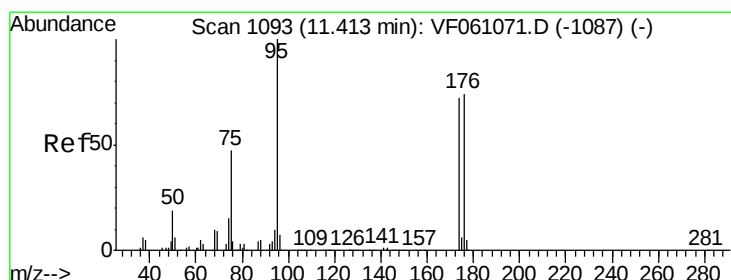
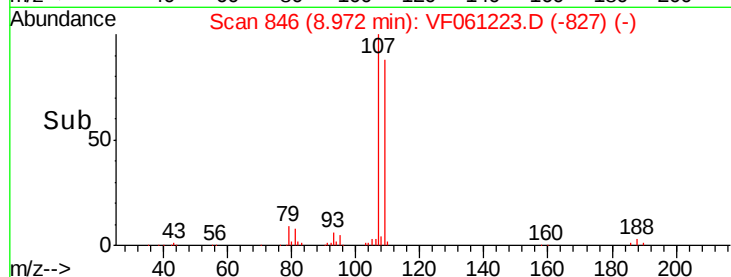
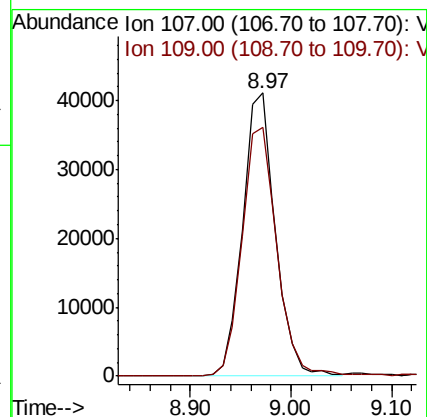
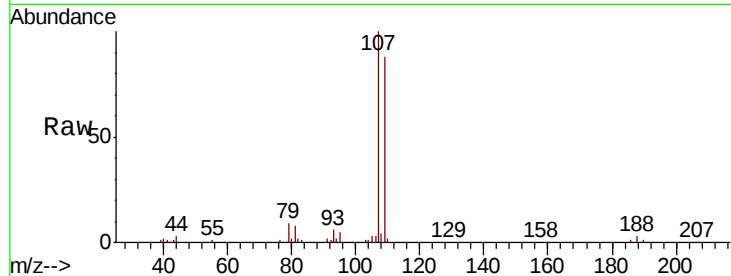
109 88.0 73.7 110.5

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#62

4-Bromofluorobenzene

Concen: 43.578 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

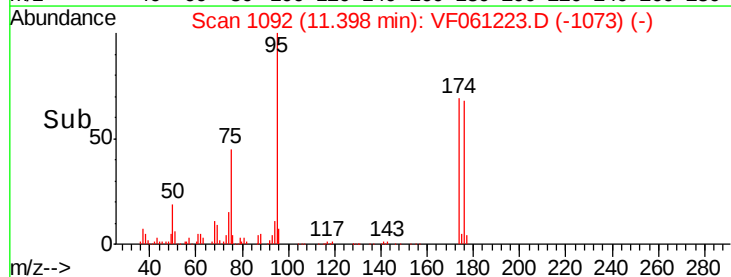
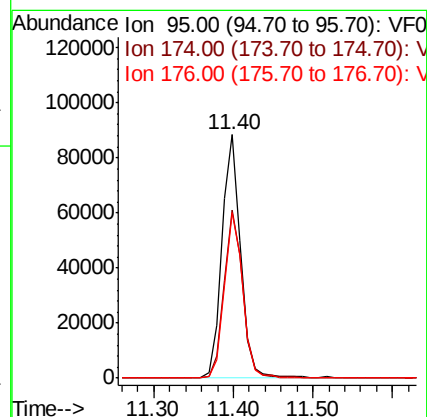
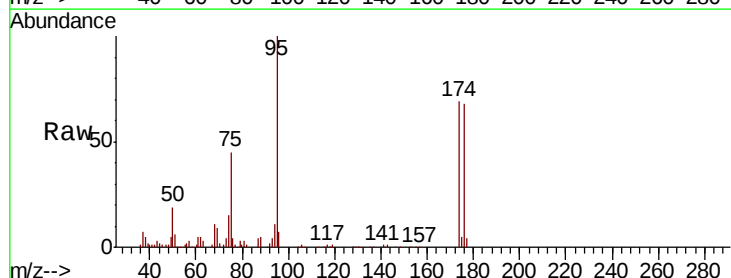
Tgt Ion: 95 Resp: 147326

Ion Ratio Lower Upper

95 100

174 69.2 0.0 143.8

176 67.9 0.0 147.6





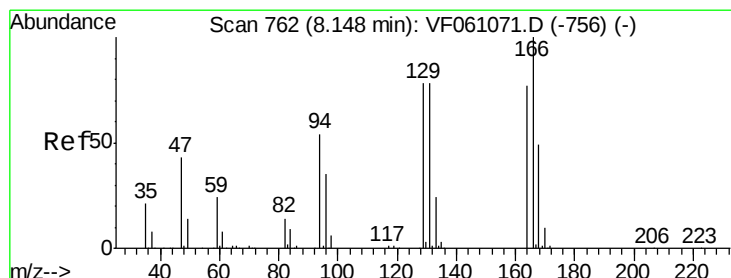
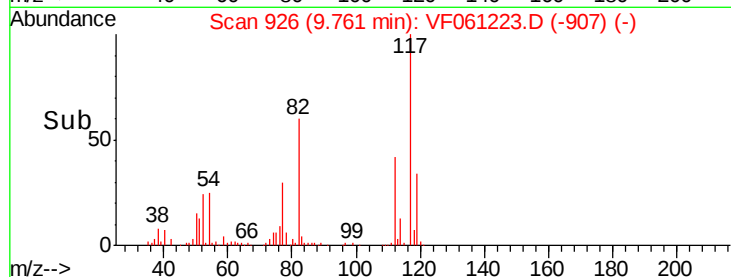
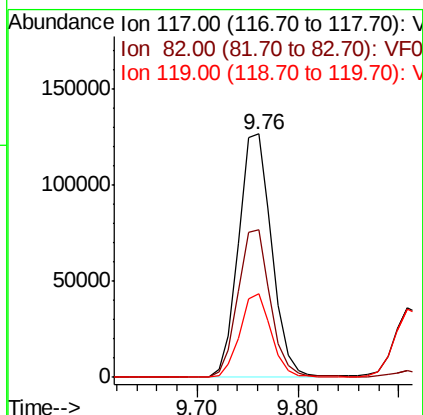
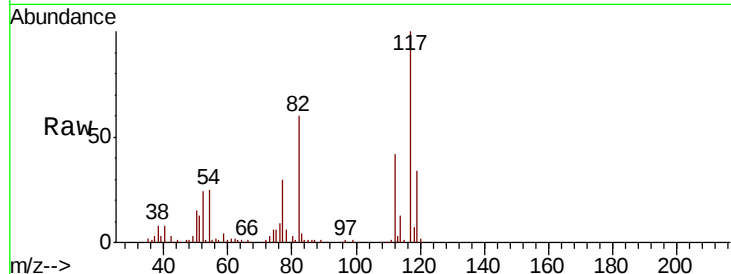
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.4	45.0	67.4
119	34.3	24.8	37.2

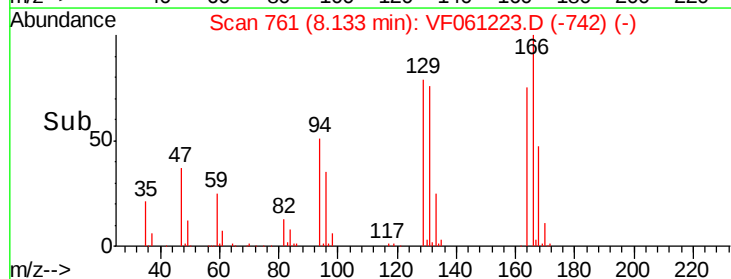
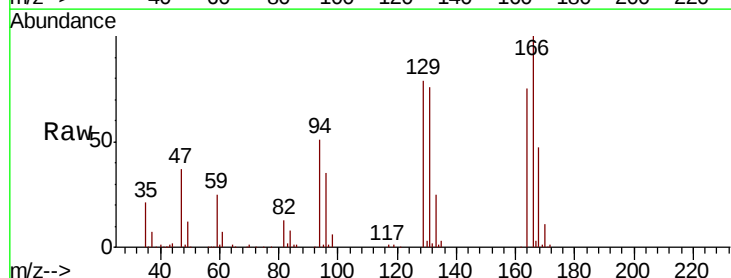
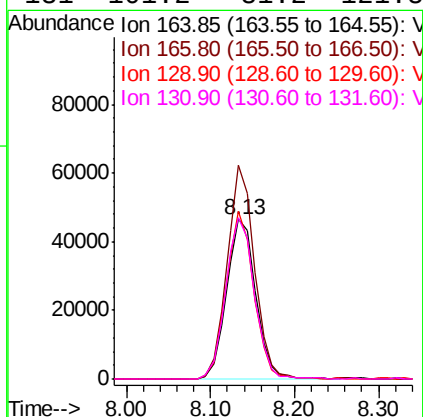
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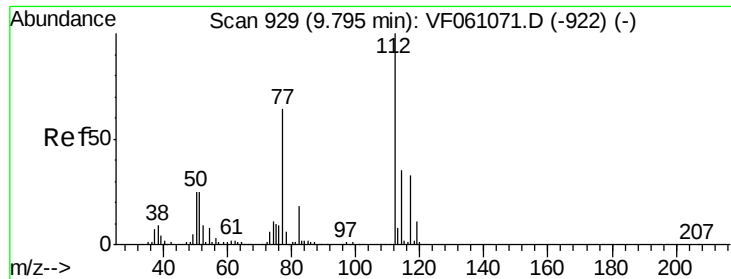
MMDadoda
12/28/2018 9:38:55 AM



#64
Tetrachloroethene
Concen: 49.900 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.7	104.0	156.0
129	105.2	81.1	121.7
131	101.2	81.2	121.8





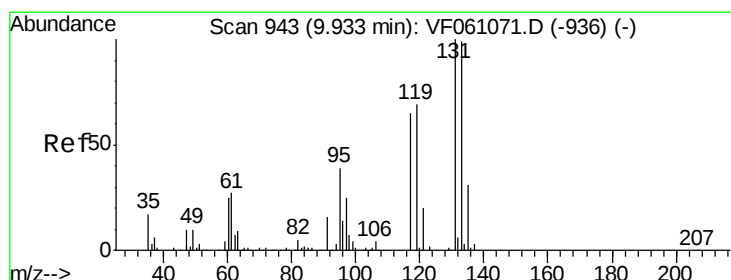
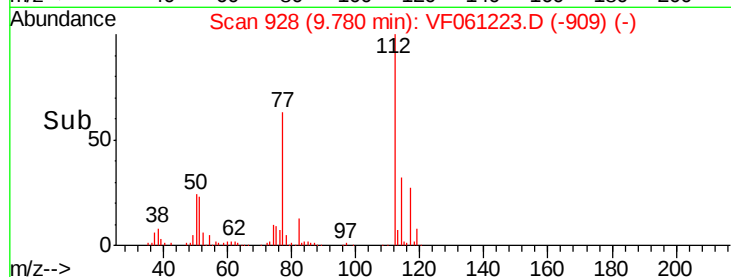
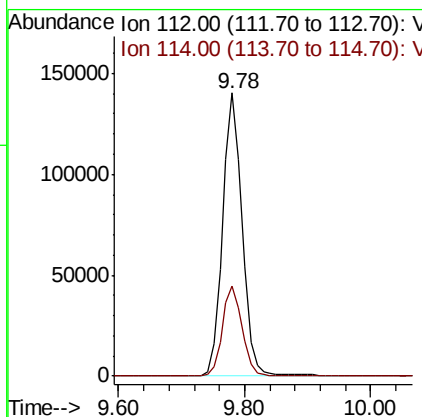
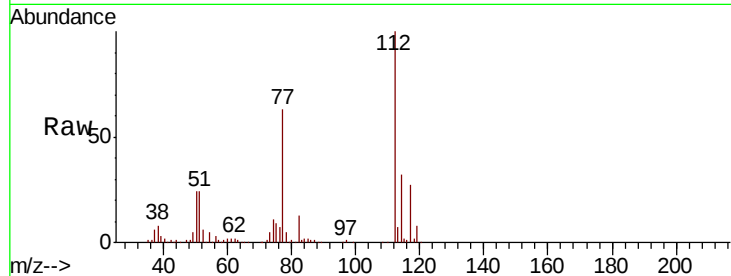
#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.8	41.6

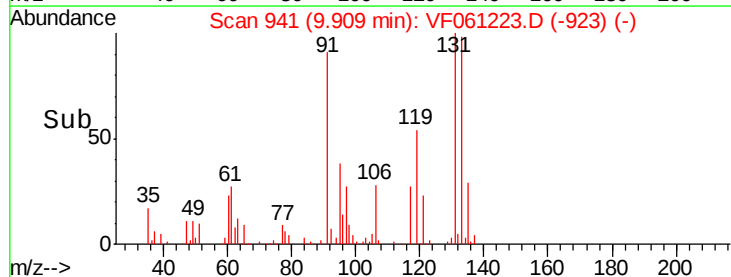
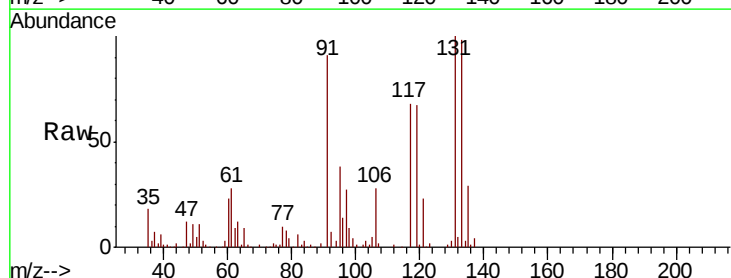
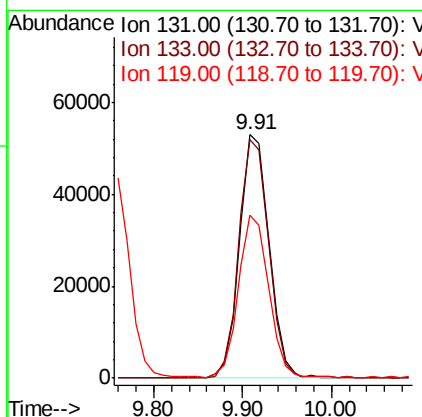
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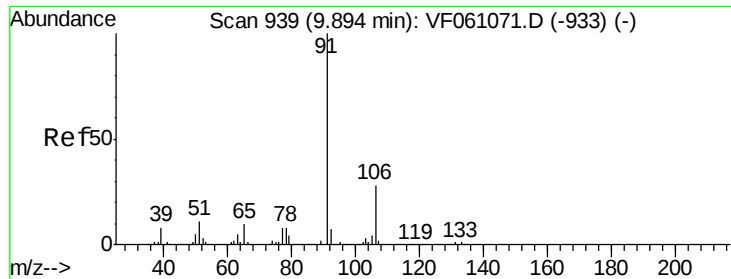
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.871 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.02 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.2	49.5	148.7
119	67.1	34.5	103.5





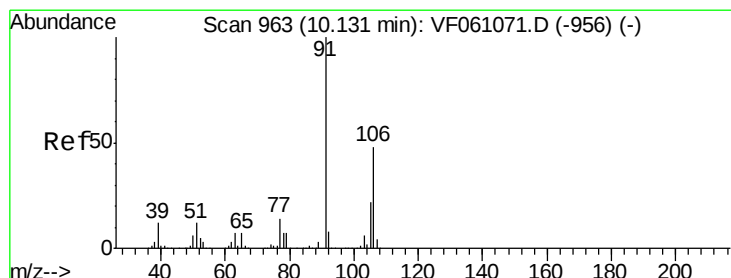
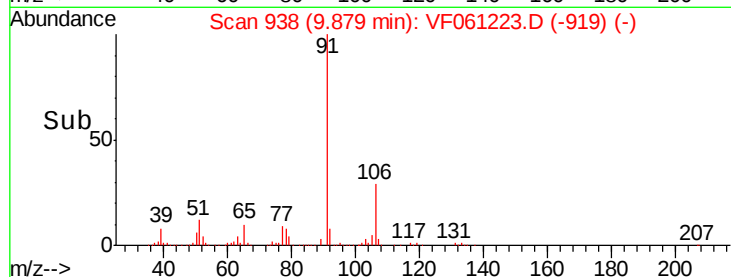
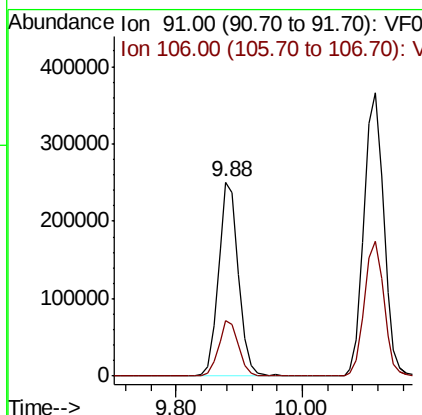
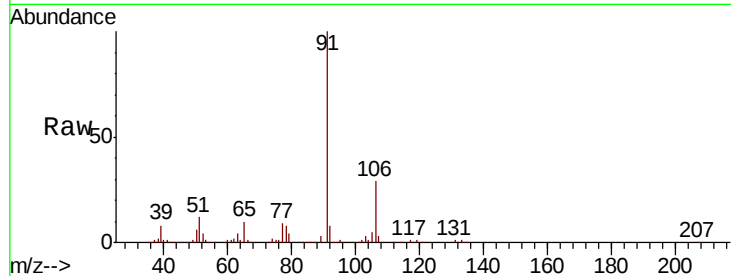
#67
Ethyl Benzene
Concen: 50.988 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 558833
Ion Ratio Lower Upper
91 100
106 28.9 22.5 33.7

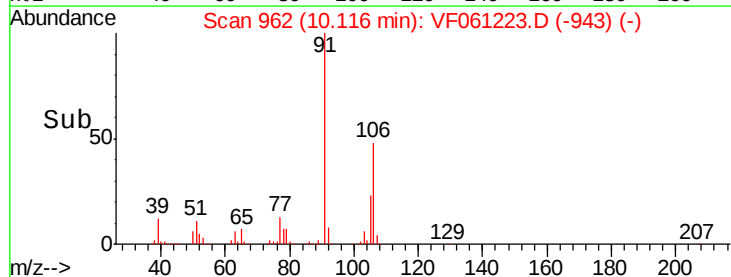
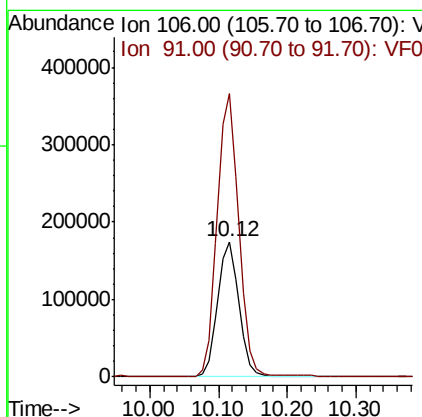
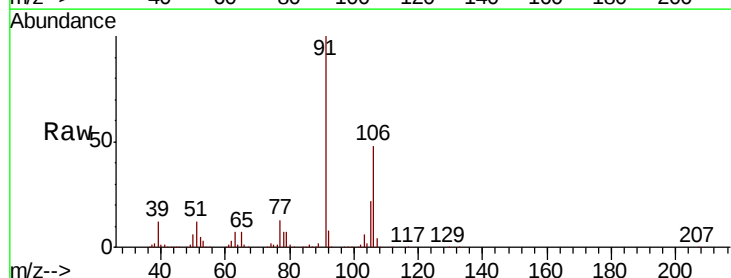
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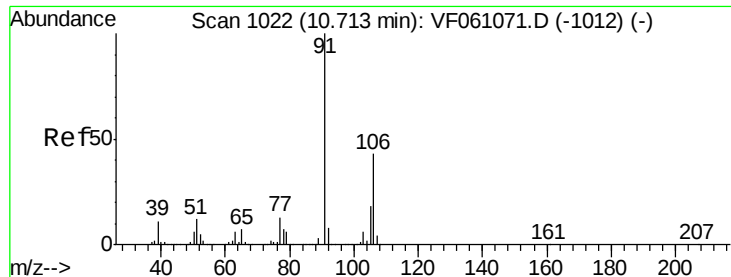
MMDadoda
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#68
m/p-Xylenes
Concen: 97.213 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 106 Resp: 374962
Ion Ratio Lower Upper
106 100
91 209.5 168.2 252.2





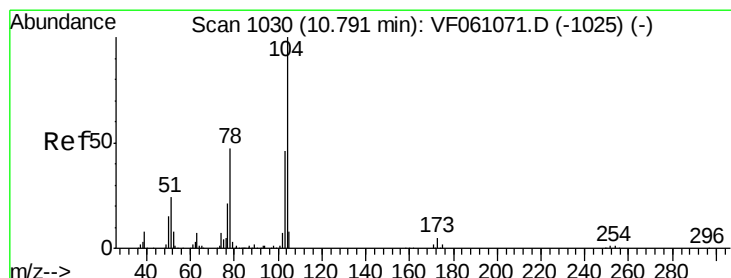
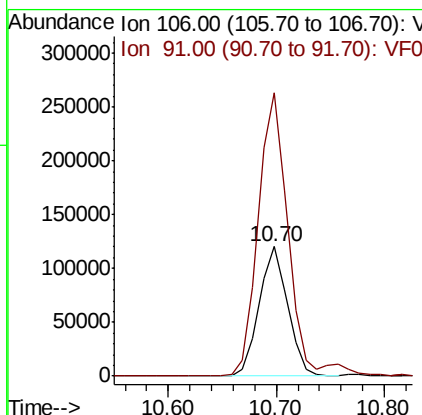
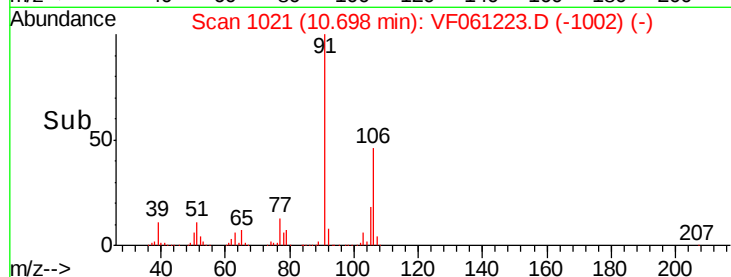
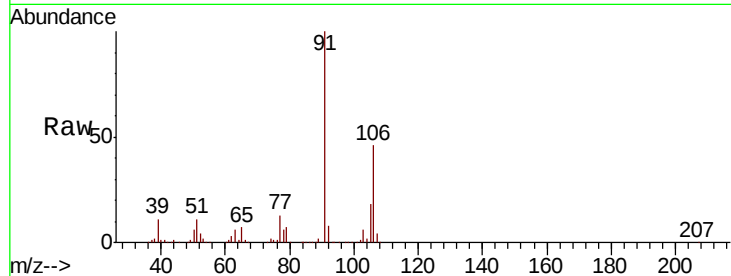
#69
o-Xylene
Concen: 51.803 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 221606
Ion Ratio Lower Upper
106 100
91 218.7 115.9 347.7

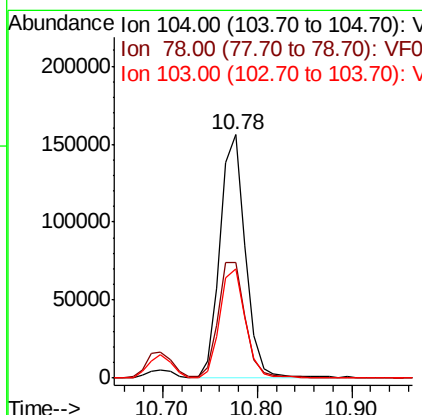
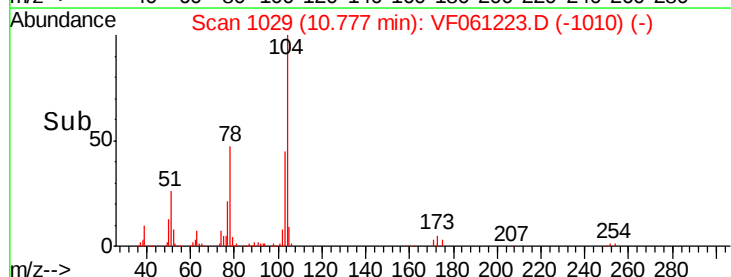
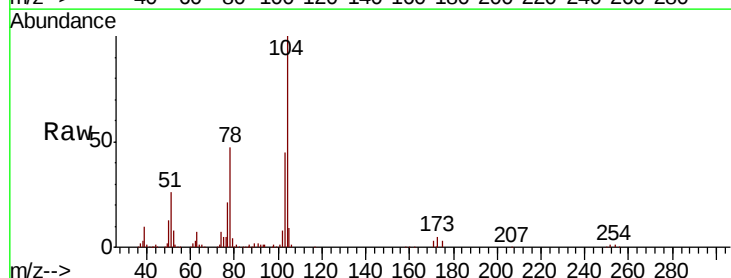
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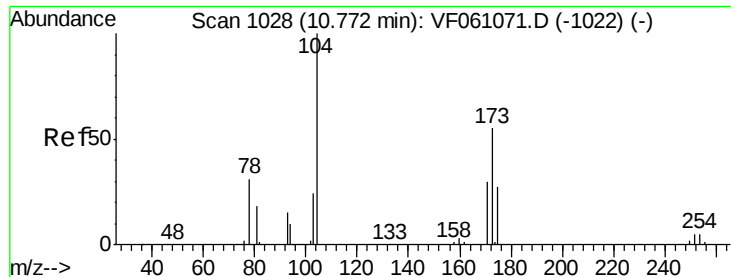
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#70
Styrene
Concen: 56.156 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion:104 Resp: 289593
Ion Ratio Lower Upper
104 100
78 47.5 38.4 57.6
103 44.9 37.0 55.6





#71

Bromoform

Concen: 50.553 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 57500

Ion Ratio Lower Upper

173 100

175 50.4 24.8 74.4

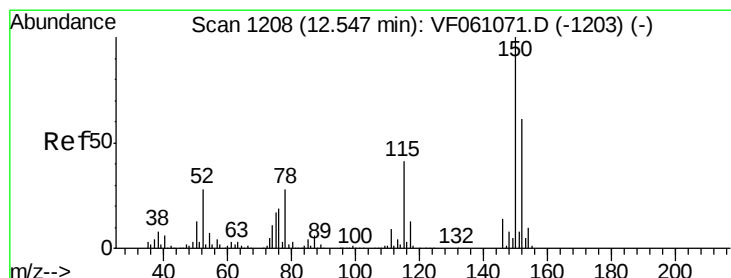
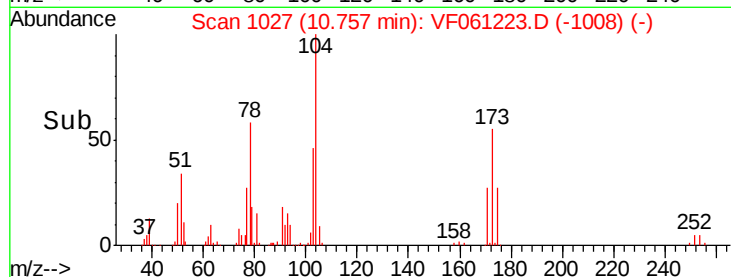
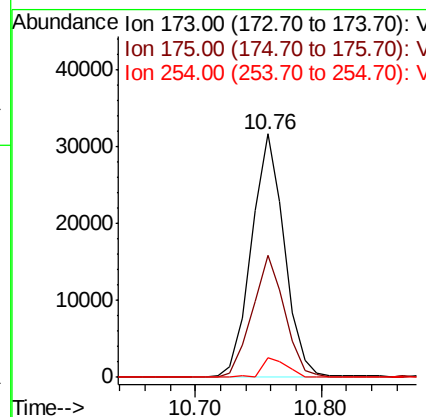
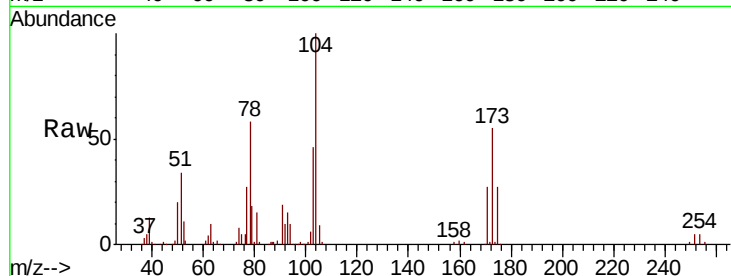
254 8.2 0.0 0.0#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

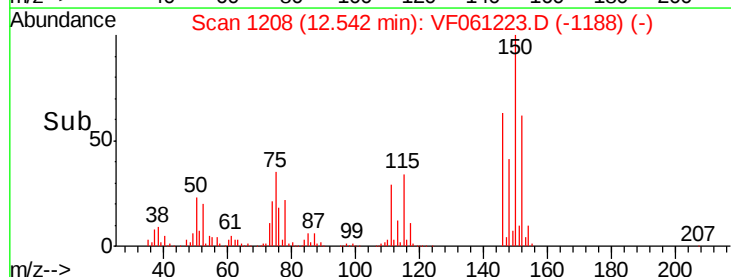
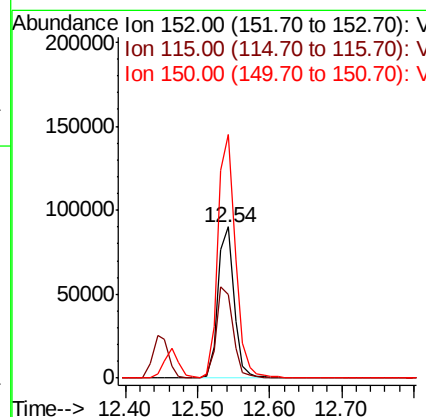
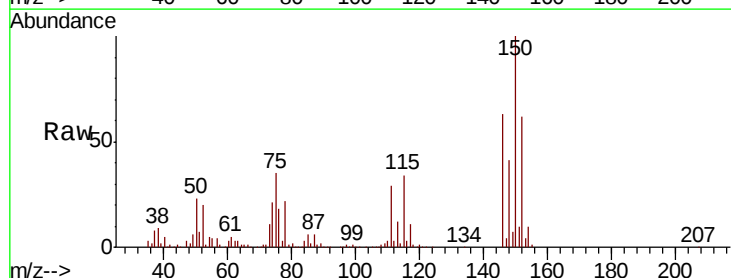
Tgt Ion:152 Resp: 139018

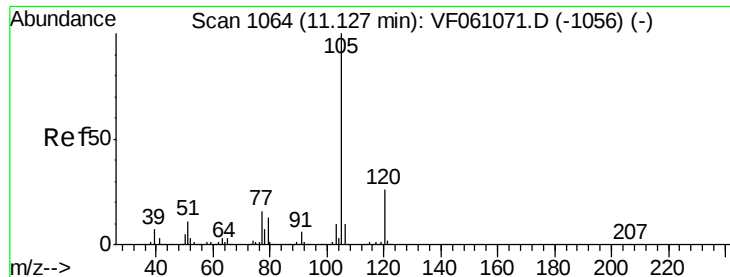
Ion Ratio Lower Upper

152 100

115 55.3 33.3 99.9

150 161.1 0.0 328.2





#73

Isopropylbenzene

Concen: 53.332 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 638917

Ion Ratio Lower Upper

105 100

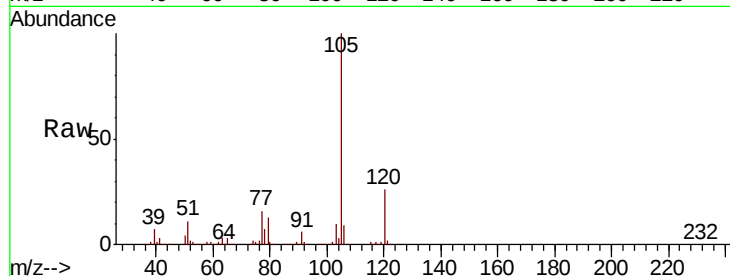
120 25.8 13.0 39.0

Manual Integrations

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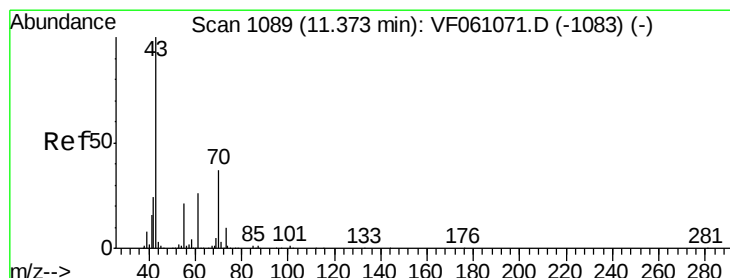
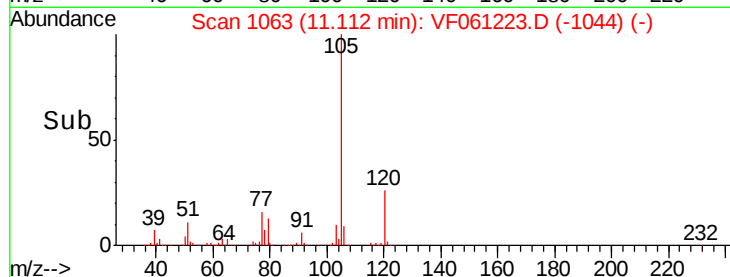
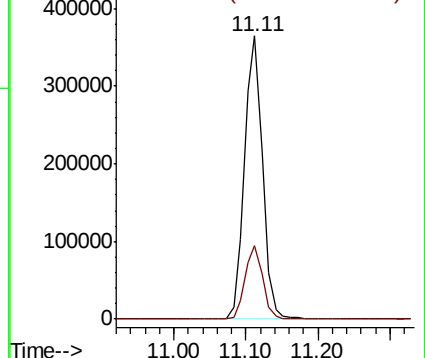
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 56.751 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Tgt Ion: 43 Resp: 150943

Ion Ratio Lower Upper

43 100

70 37.0 29.2 43.8

55 21.9 16.5 24.7

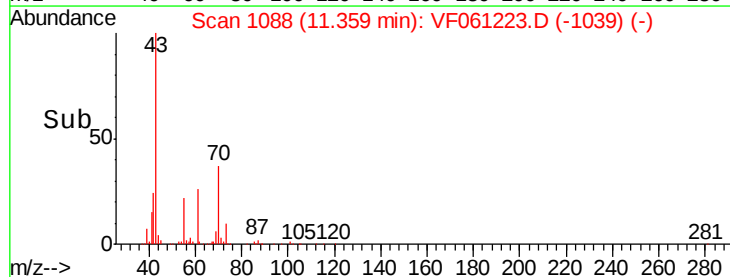
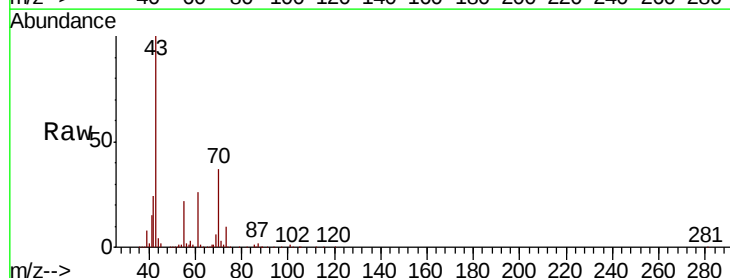
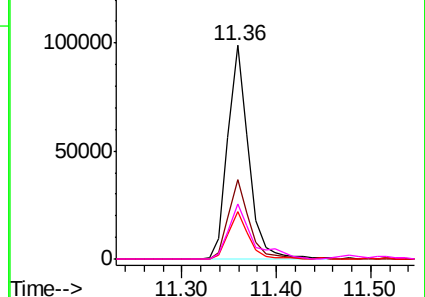
61 25.6 20.7 31.1

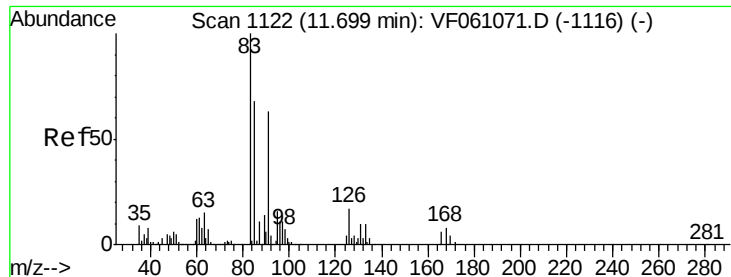
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 55.016 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 109386
Ion Ratio Lower Upper

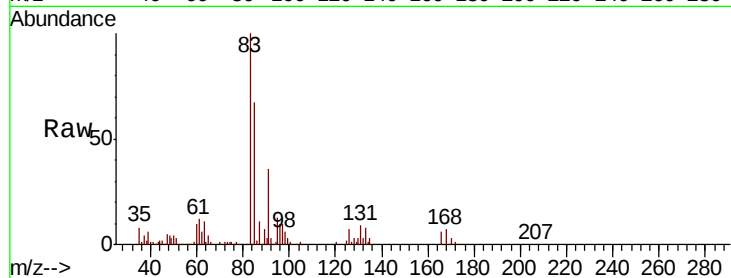
83 100

131 8.9 4.8 14.3

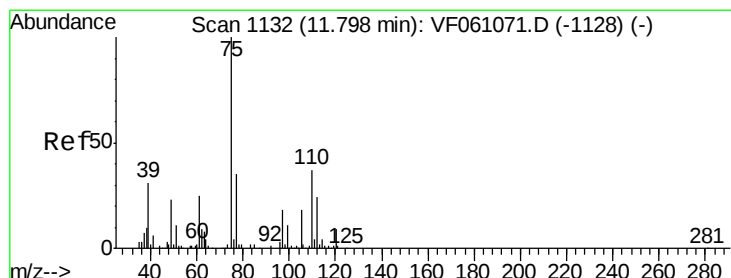
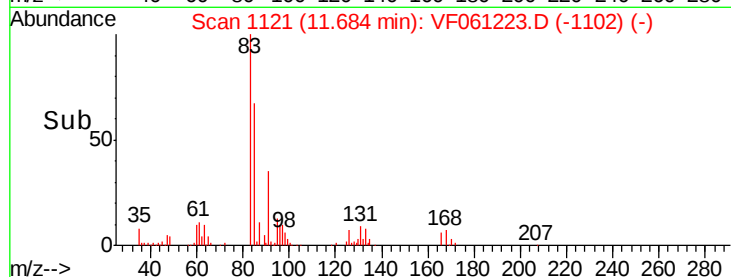
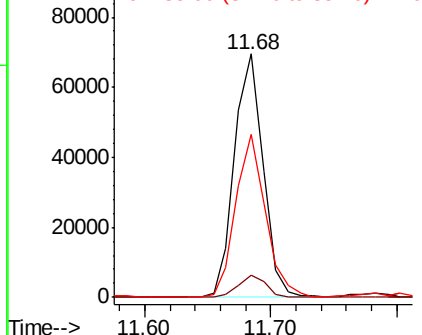
85 66.8 33.9 101.6

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 54.444 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.01 min

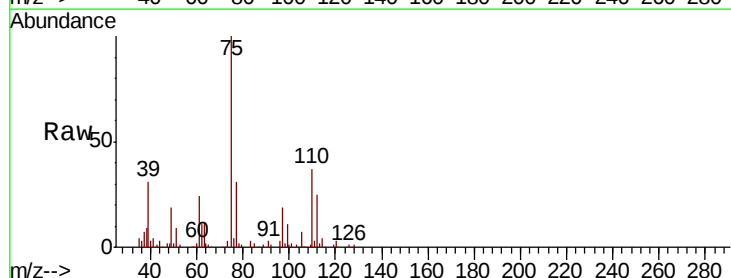
Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

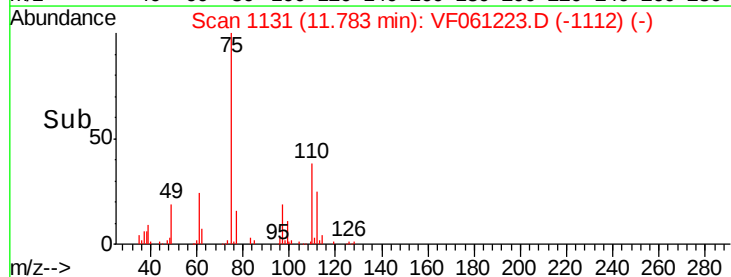
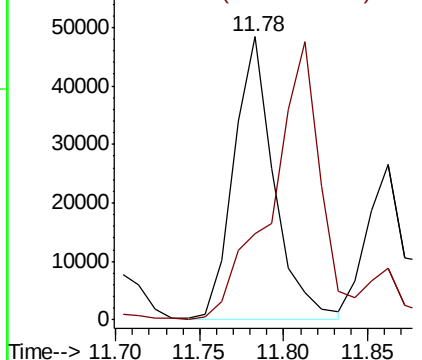
Tgt Ion: 75 Resp: 80559
Ion Ratio Lower Upper

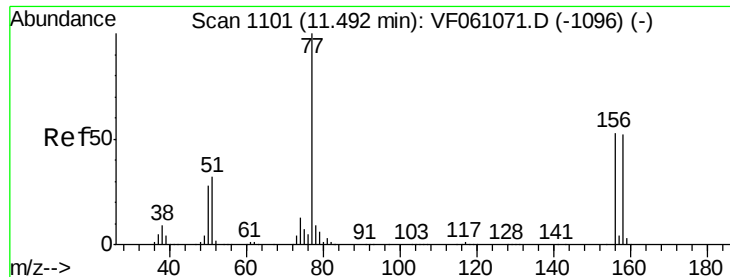
75 100

77 30.6 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 50.720 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 156 Resp: 130799

Ion Ratio Lower Upper

156 100

77 188.2 93.8 281.4

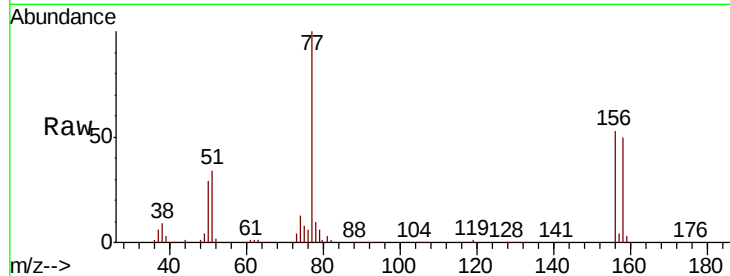
158 94.9 48.9 146.8

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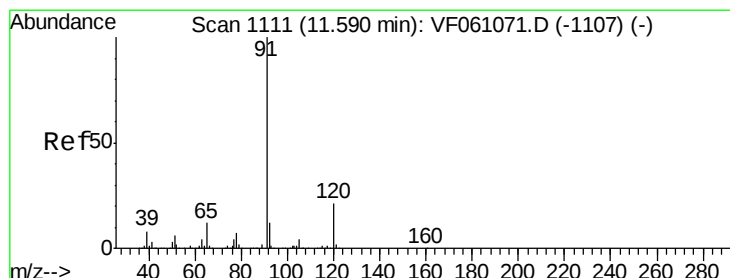
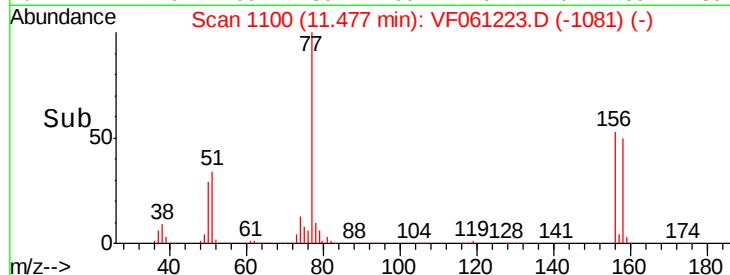
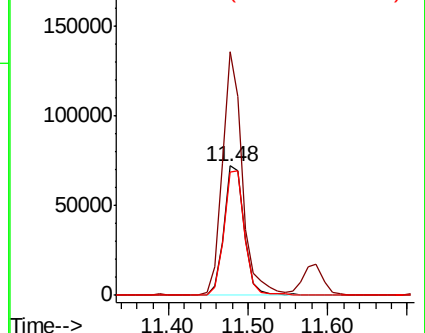
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 51.853 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061223.D

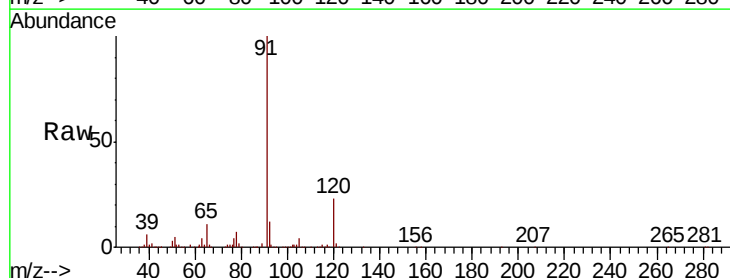
Acq: 27 Dec 2018 22:26

Tgt Ion: 91 Resp: 709696

Ion Ratio Lower Upper

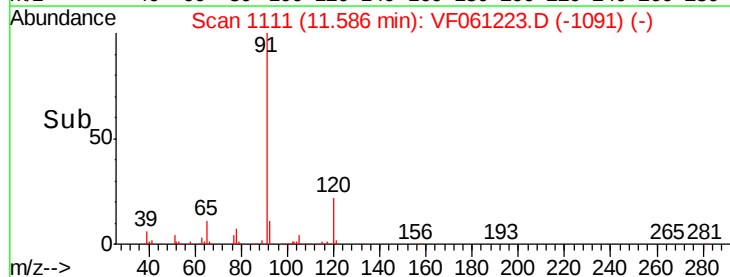
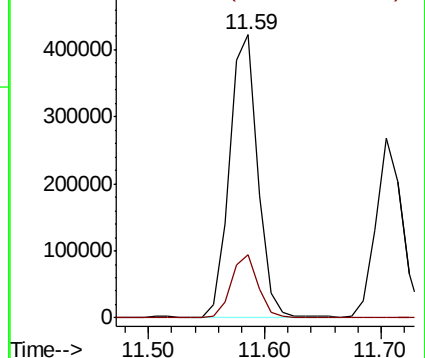
91 100

120 22.5 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





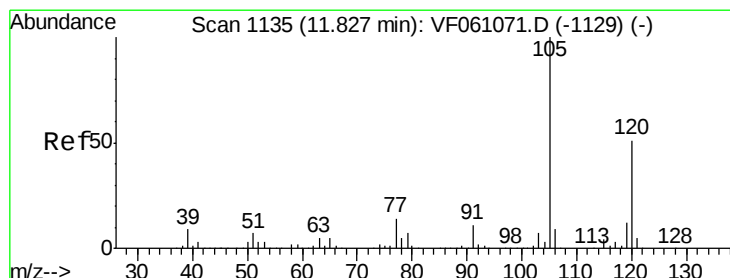
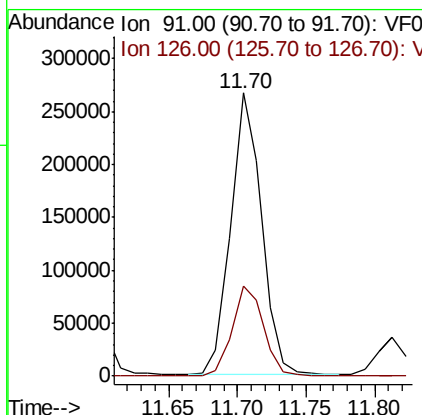
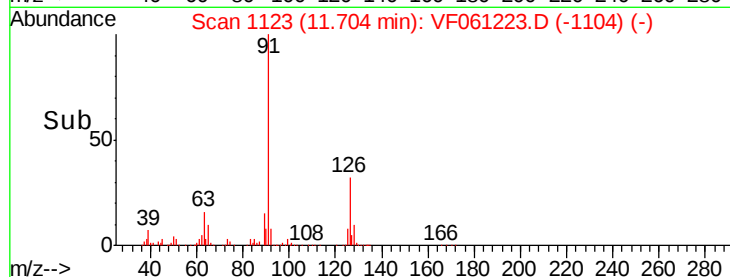
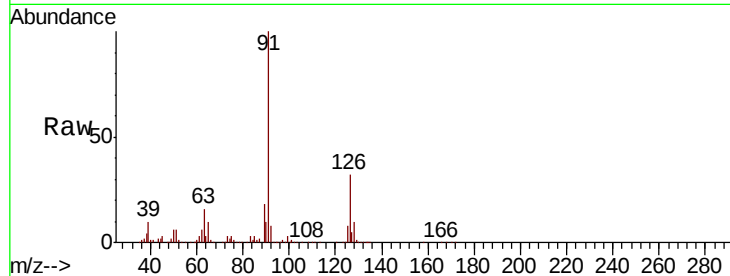
#79
2-Chlorotoluene
Concen: 50.536 ug/l
RT: 11.70 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 415320
Ion Ratio Lower Upper
91 100
126 31.8 16.4 49.1

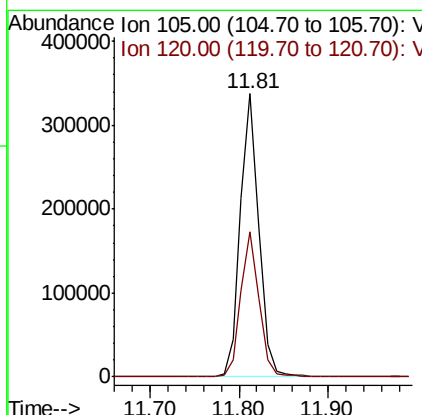
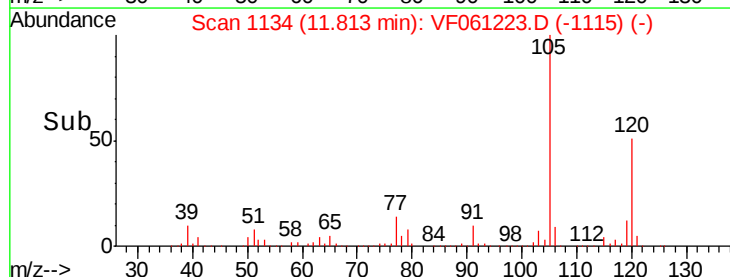
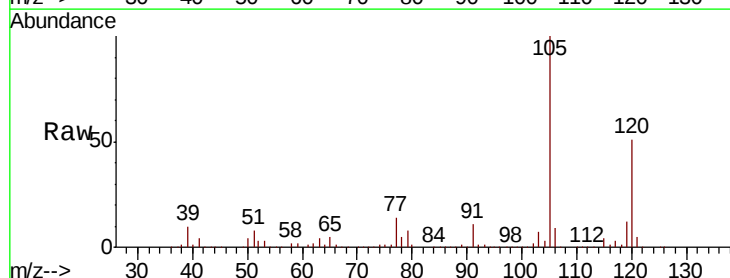
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#80
1,3,5-Trimethylbenzene
Concen: 49.823 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion: 105 Resp: 491479
Ion Ratio Lower Upper
105 100
120 51.4 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 58.109 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061223.D

Acq: 27 Dec 2018 22:26

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 36947

Ion Ratio Lower Upper

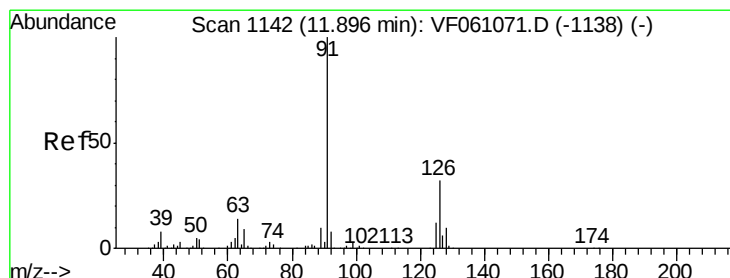
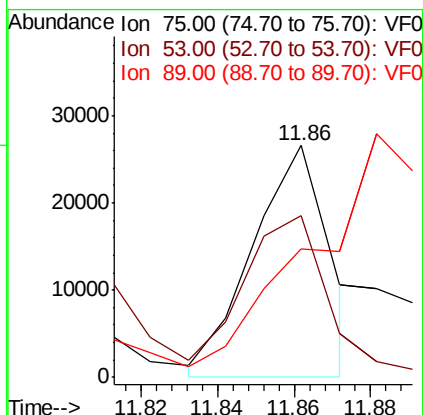
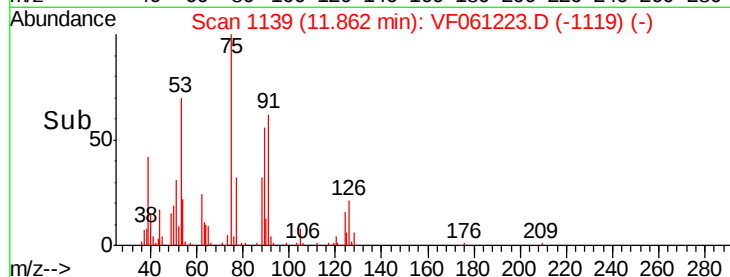
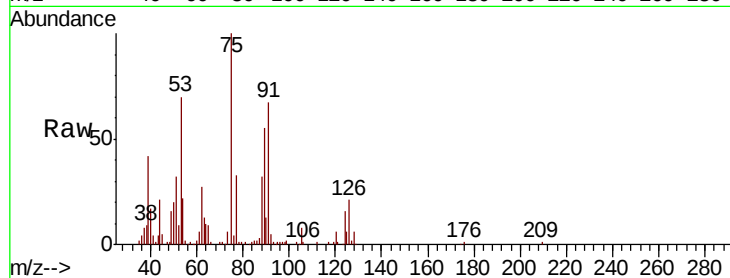
75 100

53 69.8 74.1 111.1#

89 55.3 42.6 64.0

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#82

4-Chlorotoluene

Concen: 50.473 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061223.D

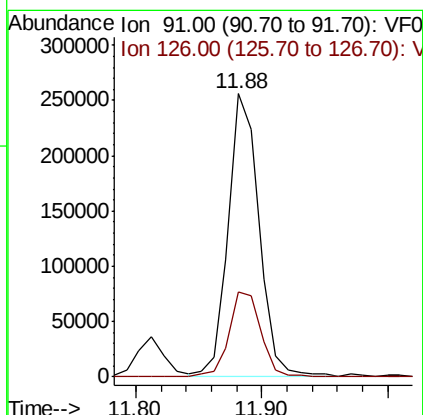
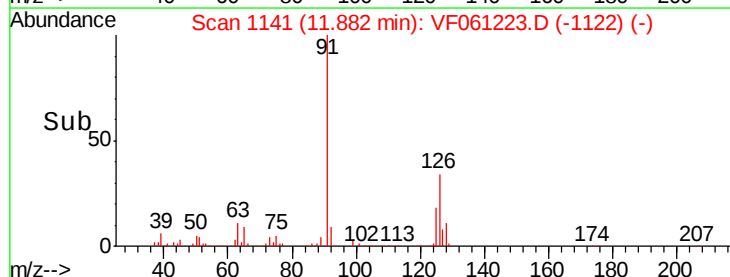
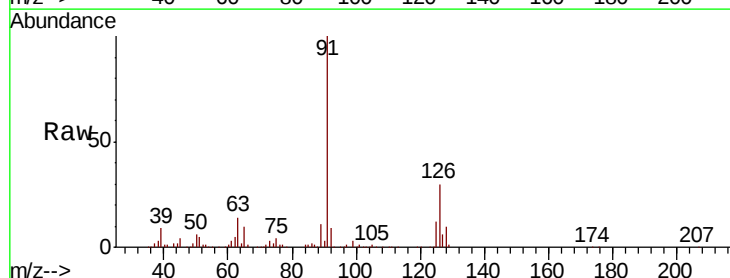
Acq: 27 Dec 2018 22:26

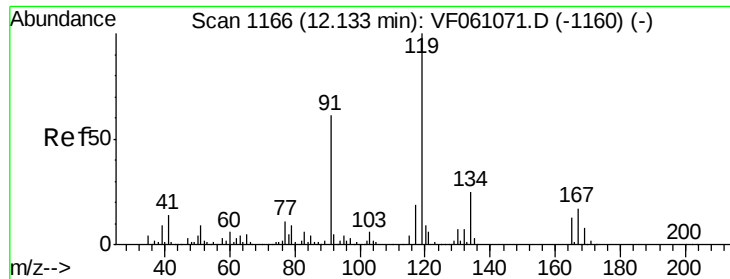
Tgt Ion: 91 Resp: 429095

Ion Ratio Lower Upper

91 100

126 30.2 16.0 47.9





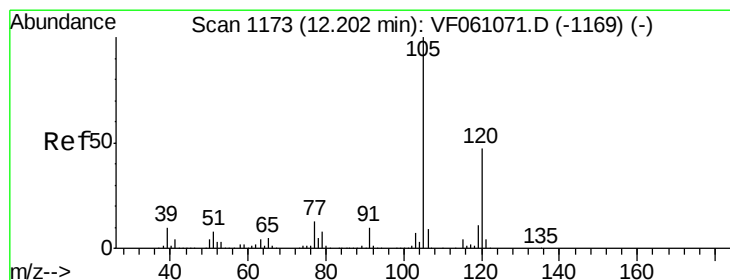
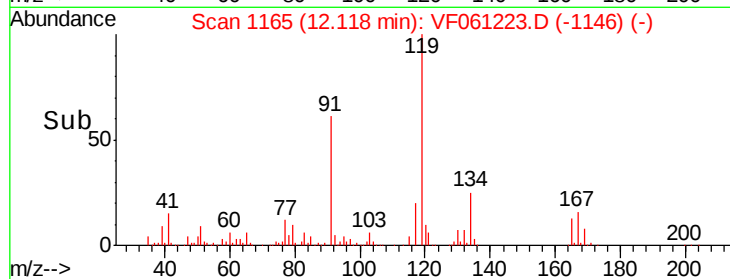
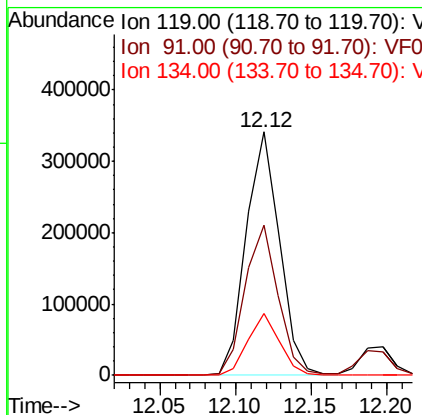
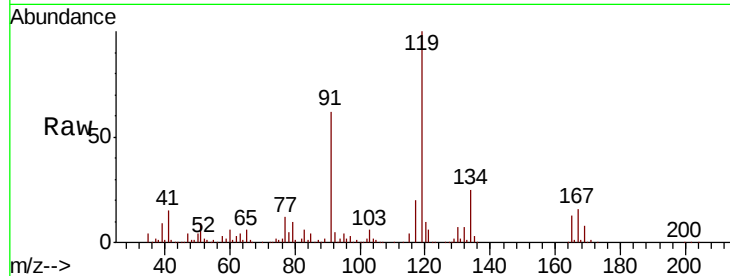
#83
 tert-Butylbenzene
 Concen: 52.101 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	528869		
91	61.8		30.5	91.5
134	25.5		12.4	37.4

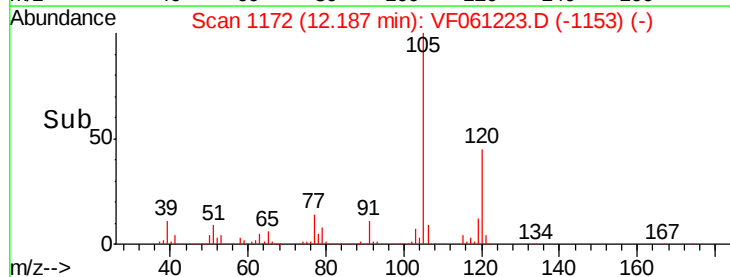
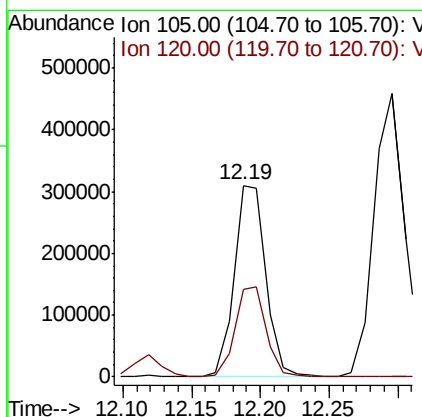
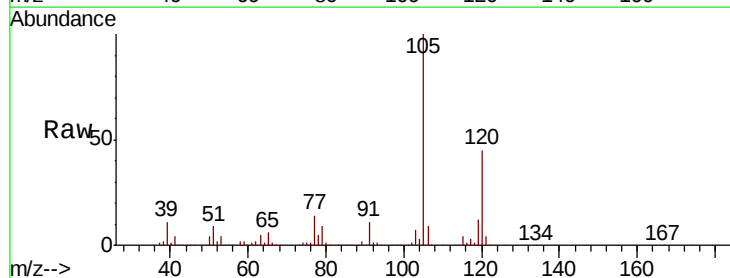
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.307 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	494875		
120	45.5		23.6	71.0





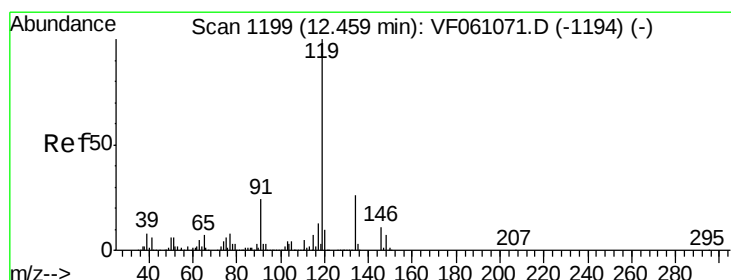
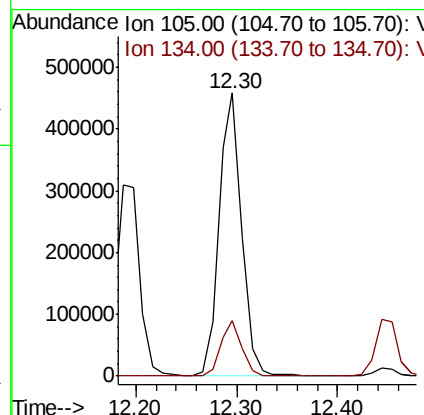
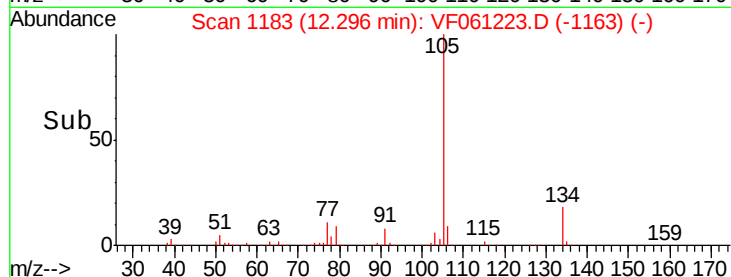
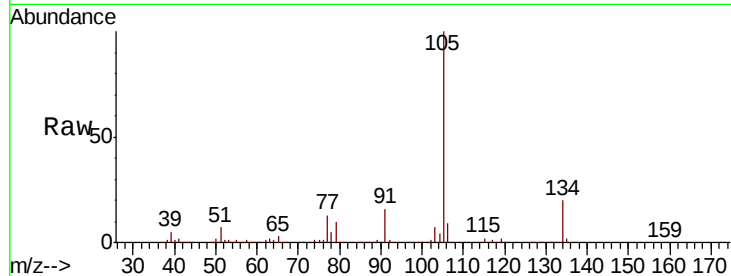
#85
 sec-Butylbenzene
 Concen: 53.634 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.4	28.2

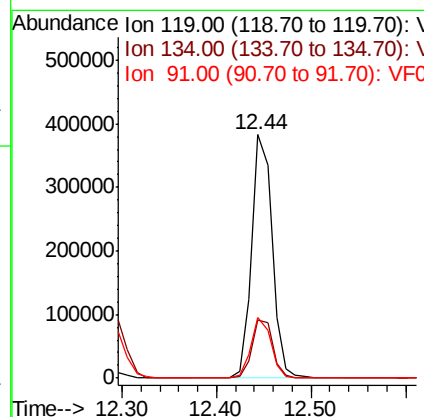
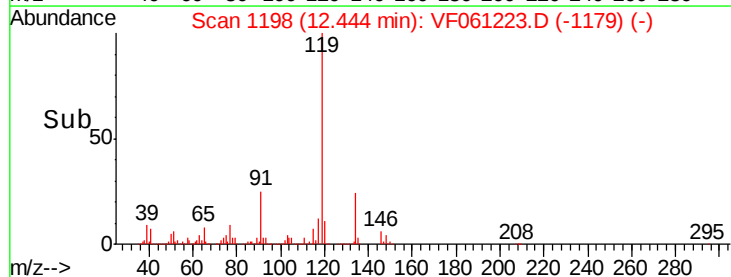
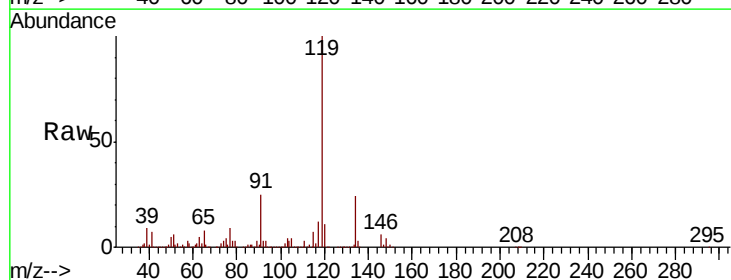
Manual Integrations
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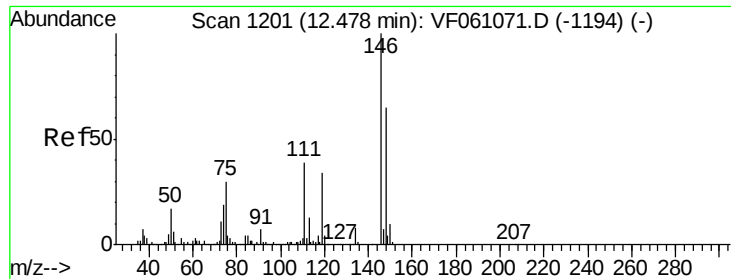
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#86
 p-Isopropyltoluene
 Concen: 52.451 ug/l
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.0	12.8	38.4
91	24.7	12.2	36.6





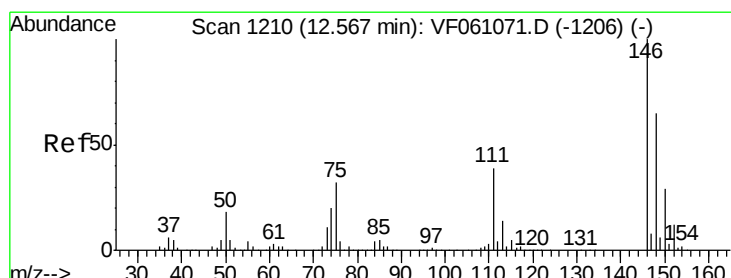
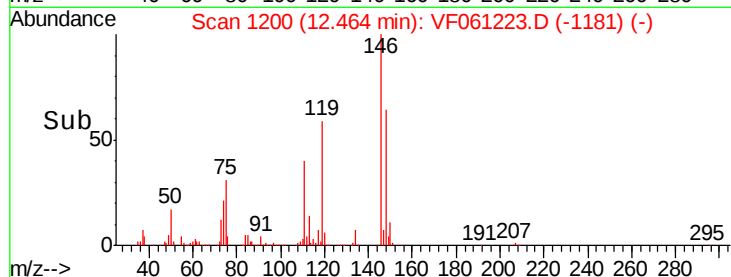
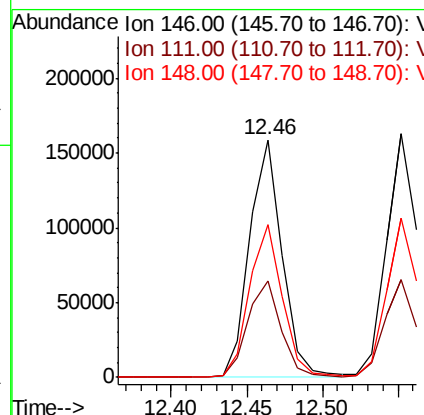
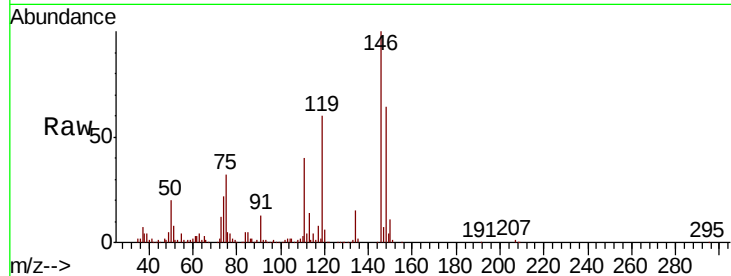
#87
 1,3-Dichlorobenzene
 Concen: 57.497 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.3	57.9
148	64.2	32.4	97.2

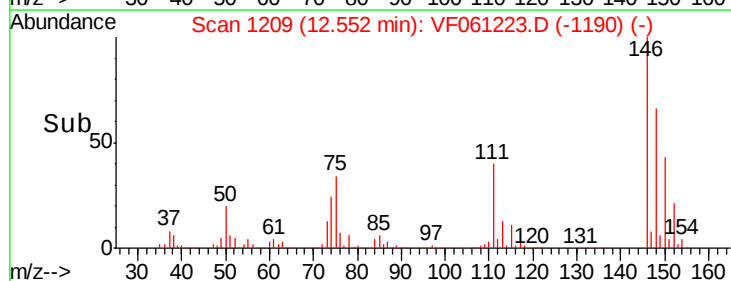
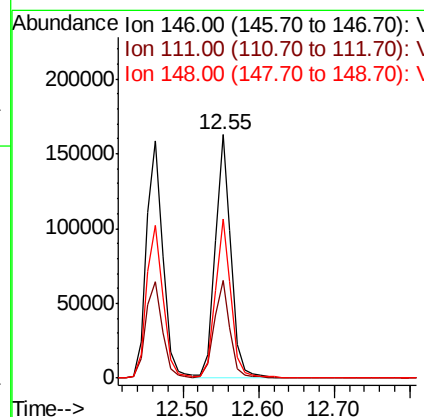
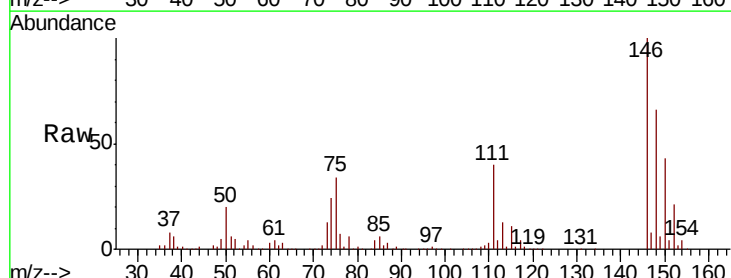
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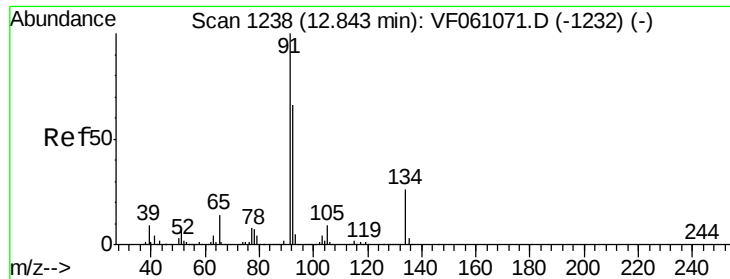
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#88
 1,4-Dichlorobenzene
 Concen: 51.099 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.4	58.4
148	65.6	32.4	97.0





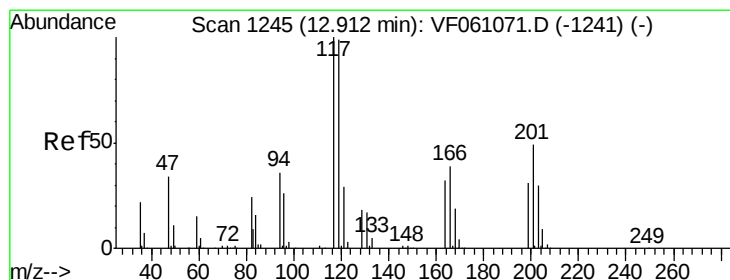
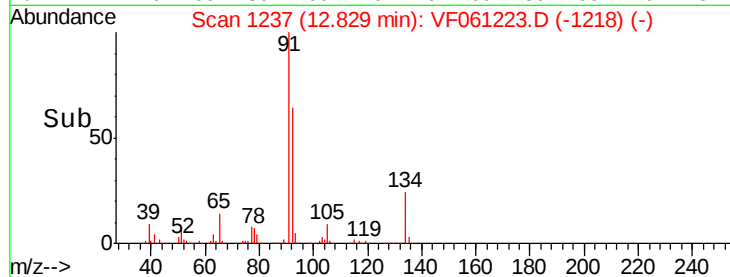
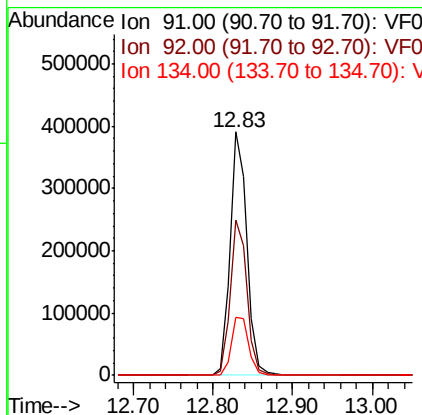
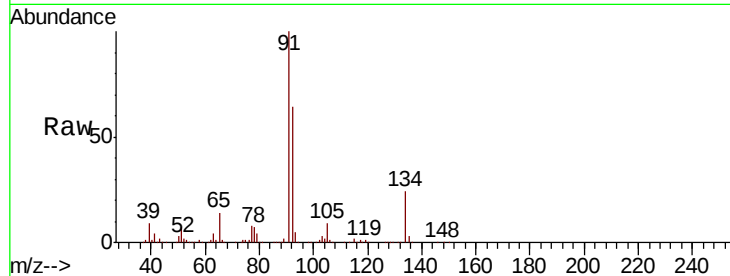
#89
n-Butylbenzene
Concen: 53.128 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.6	32.8	98.4
134	23.7	13.2	39.5

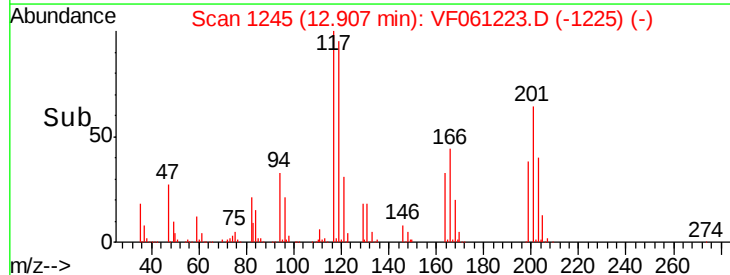
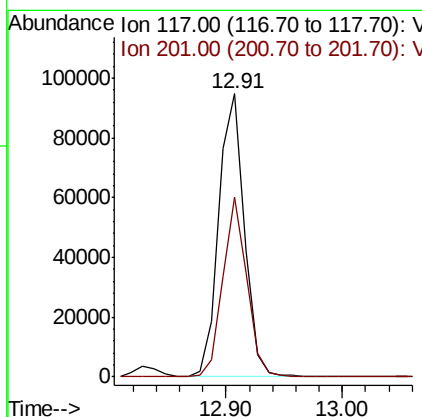
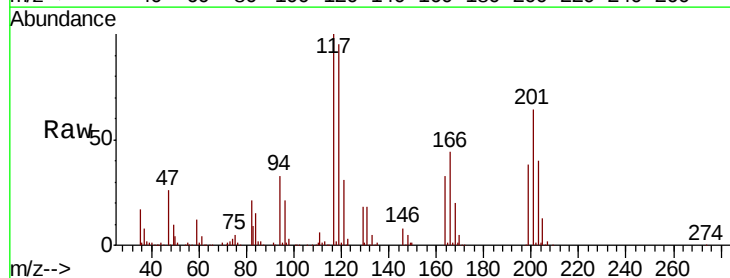
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#90
Hexachloroethane
Concen: 53.257 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.5	24.9	74.8





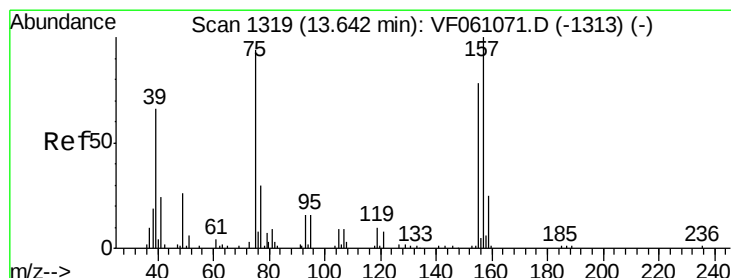
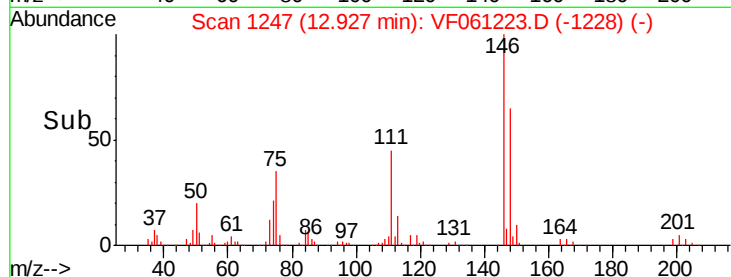
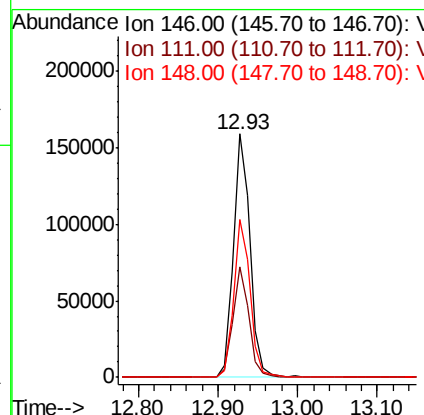
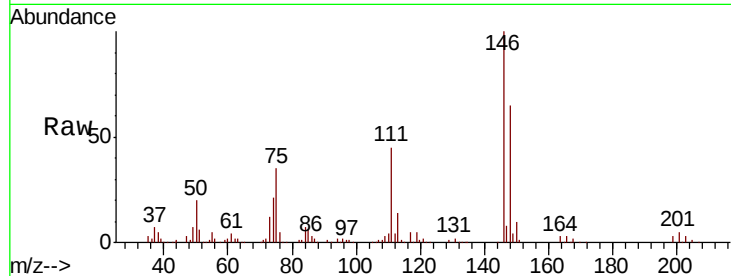
#91
 1,2-Dichlorobenzene
 Concen: 51.321 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	23.2	69.5
148	64.9	32.4	97.0

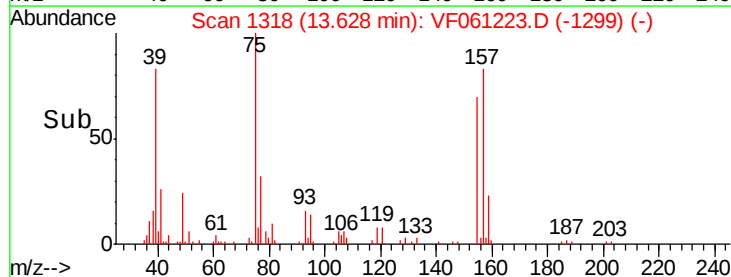
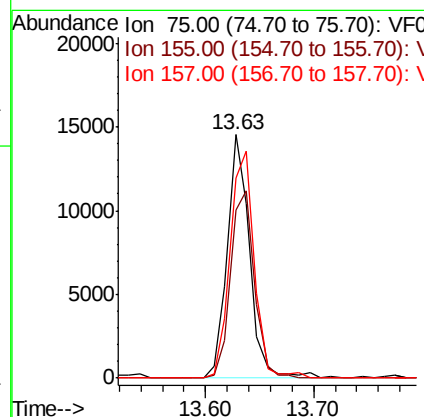
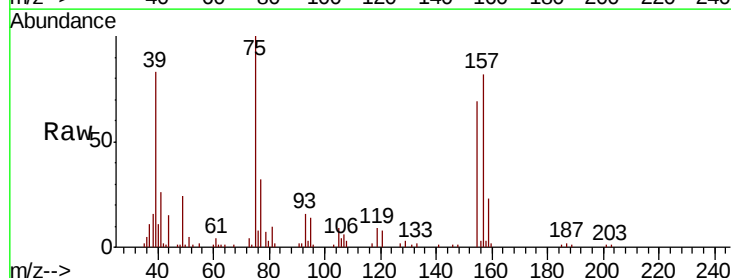
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.308 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.9	41.5	124.5
157	82.1	53.2	159.6





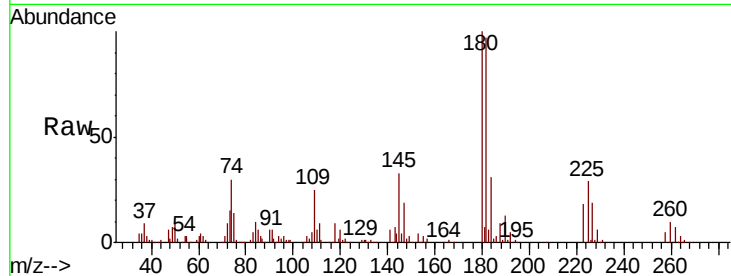
#93
 1,2,4-Trichlorobenzene
 Concen: 48.657 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	159089		
182	96.6	46.9	140.6	
145	33.2	20.5	61.6	

Manual Integrations
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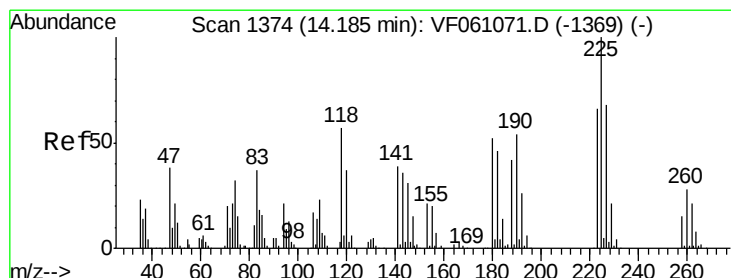
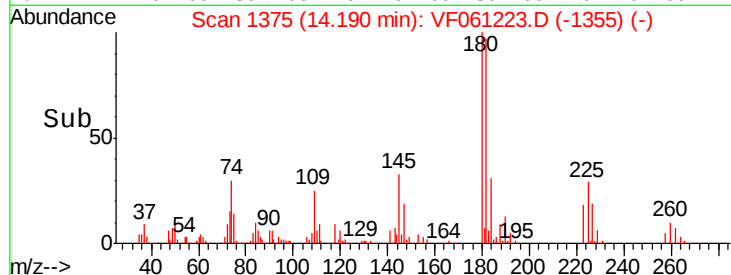
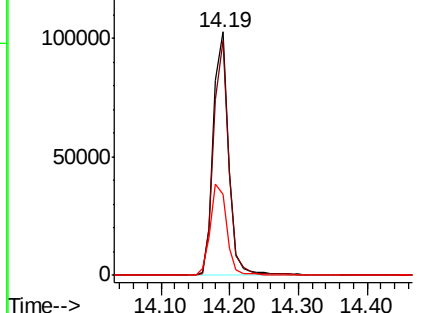


Abundance

Ion 180.00 (179.70 to 180.70): V

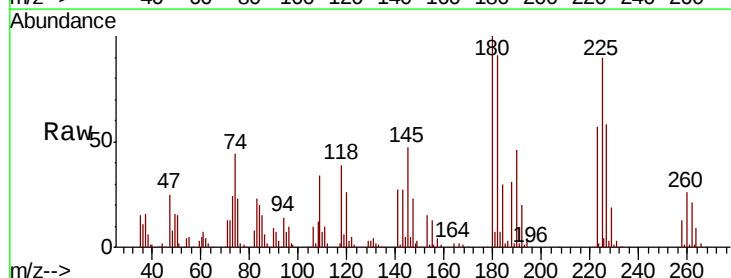
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 50.342 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061223.D
 Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	104836		
223	63.3	32.8	98.3	
227	64.3	34.0	101.8	

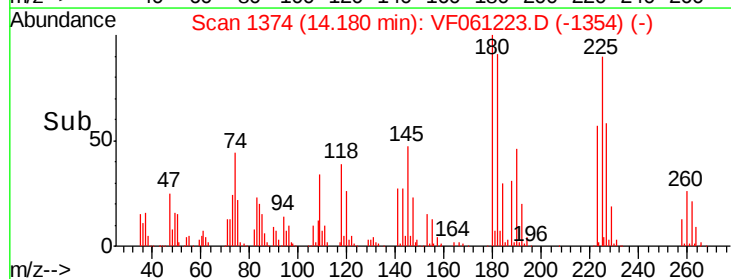
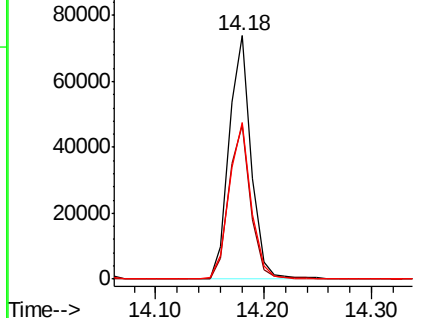


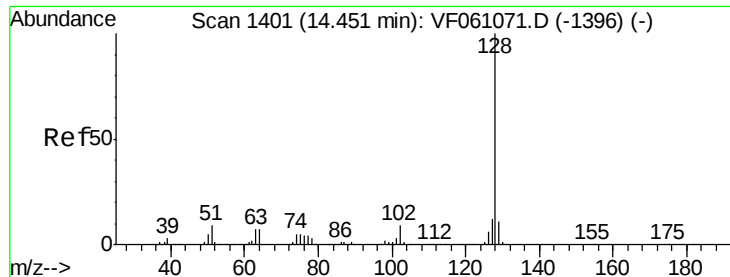
Abundance

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





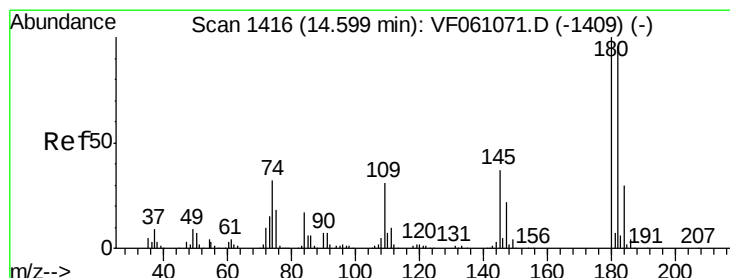
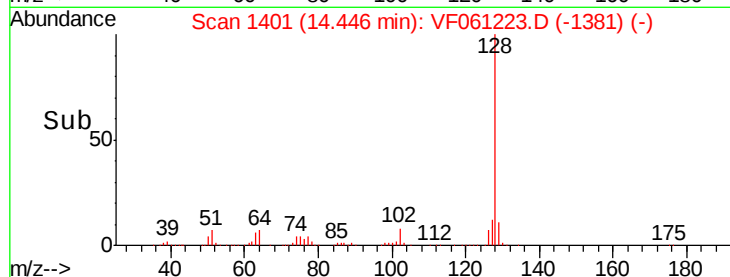
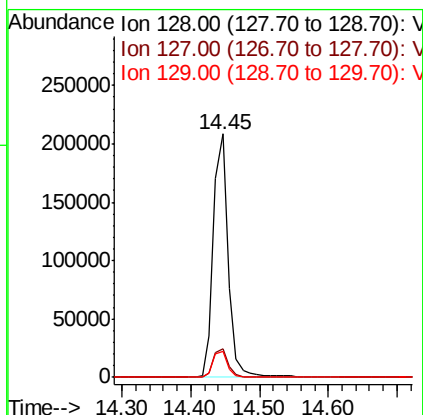
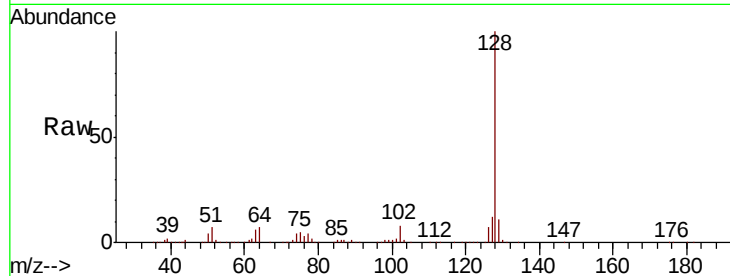
#95
Naphthalene
Concen: 52.501 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.4	14.2
129	10.6	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
12/28/2018 9:38:55 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.155 ug/l
RT: 14.58 min Scan# 1415
Delta R.T. -0.01 min
Lab File: VF061223.D
Acq: 27 Dec 2018 22:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.9	47.9	143.8
145	38.2	18.6	55.8

