

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111318\
 Data File : VF060716.D
 Acq On : 13 Nov 2018 19:08
 Operator : VA/AP
 Sample : VF1113SBS01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Manual Integrations
 APPROVED

sam
 11/14/2018 9:33:03 AM

Quant Time: Nov 14 03:48:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	215967	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	361021	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	326432	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	189698	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	113139	45.93	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	91.86%	
35) Dibromofluoromethane	4.12	113	133927	49.35	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	98.70%	
50) Toluene-d8	7.56	98	352116	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.42	95	171271	53.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	83087	21.497	ug/l	99
3) Chloromethane	1.10	50	52728	21.997	ug/l	97
4) Vinyl Chloride	1.15	62	45247	21.101	ug/l	95
5) Bromomethane	1.32	94	27170	19.948	ug/l	93
6) Chloroethane	1.38	64	18216	21.713	ug/l	98
7) Trichlorofluoromethane	1.50	101	93684m	19.757	ug/l	
8) Diethyl Ether	1.63	74	12264	20.187	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.82	101	48454	21.685	ug/l	90
10) Methyl Iodide	1.90	142	74814m	20.868	ug/l	
11) Tert butyl alcohol	2.56	59	10955	97.717	ug/l	100
12) 1,1-Dichloroethene	1.79	96	36354	20.633	ug/l	95
13) Acrolein	2.01	56	9902m	96.598	ug/l	
14) Allyl chloride	2.10	41	59644	19.323	ug/l	98
15) Acrylonitrile	2.95	53	25570	107.037	ug/l	98
16) Acetone	2.24	43	47029	89.320	ug/l	97
17) Carbon Disulfide	1.83	76	112069m	21.045	ug/l	
18) Methyl Acetate	2.35	43	17164	19.853	ug/l	94
19) Methyl tert-butyl Ether	2.43	73	90500	21.410	ug/l	99
20) Methylene Chloride	2.19	84	44992m	24.237	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	40139	21.805	ug/l	86
22) Diisopropyl ether	2.80	45	121090	20.319	ug/l	97
23) Vinyl Acetate	3.19	43	295149	105.177	ug/l	99
24) 1,1-Dichloroethane	2.88	63	72932	20.215	ug/l	97
25) 2-Butanone	4.34	43	88019	101.633	ug/l	98
26) 2,2-Dichloropropane	3.61	77	56728	19.981	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	59904	19.129	ug/l	93
28) Bromochloromethane	3.72	49	41077	21.908	ug/l	93
29) Tetrahydrofuran	4.08	42	39297	110.005	ug/l	97
30) Chloroform	3.87	83	118933	20.546	ug/l	99
31) Cyclohexane	3.70	56	96452	22.027	ug/l	98
32) 1,1,1-Trichloroethane	4.10	97	88336	19.378	ug/l	95
36) 1,1-Dichloropropene	4.29	75	87319	20.855	ug/l	97
37) Ethyl Acetate	4.12	43	32982	21.188	ug/l #	77
38) Carbon Tetrachloride	4.00	117	83978	20.671	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	104178	21.447	ug/l	95
40) Benzene	4.64	78	202258	21.671	ug/l	99
41) Methacrylonitrile	4.76	41	19929	21.549	ug/l	92
42) 1,2-Dichloroethane	4.95	62	66191	20.522	ug/l	98
43) Isopropyl Acetate	6.97	43	39051	18.921	ug/l #	98
44) Trichloroethene	5.51	130	62084	21.083	ug/l	94
45) 1,2-Dichloropropane	6.24	63	49453	20.362	ug/l	100
46) Dibromomethane	6.09	93	33340	20.796	ug/l	97
47) Bromodichloromethane	6.39	83	83429	20.378	ug/l	99
48) Methyl methacrylate	6.72	41	27193	19.908	ug/l	99
49) 1,4-Dioxane	6.71	88	4468	349.755	ug/l #	85
51) 4-Methyl-2-Pentanone	8.26	43	150187	100.614	ug/l	98
52) Toluene	7.63	92	123999	19.826	ug/l	95
53) t-1,3-Dichloropropene	8.28	75	71353	21.760	ug/l	94
54) cis-1,3-Dichloropropene	7.31	75	82108	19.277	ug/l	92
55) 1,1,2-Trichloroethane	8.50	97	35159	19.675	ug/l	95
56) Ethyl methacrylate	8.63	69	38888	19.161	ug/l	97
57) 1,3-Dichloropropane	8.86	76	64017	20.670	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.63	63	19845	107.041	ug/l	100
59) 2-Hexanone	9.50	43	103593	98.751	ug/l	99
60) Dibromochloromethane	8.73	129	49480	19.428	ug/l	98
61) 1,2-Dibromoethane	8.99	107	39489	21.011	ug/l	97
64) Tetrachloroethene	8.16	164	55507	21.473	ug/l	90
65) Chlorobenzene	9.80	112	133121	20.209	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	59442	20.689	ug/l	93
67) Ethyl Benzene	9.91	91	265029	21.345	ug/l	98
68) m/p-Xylenes	10.14	106	187950	42.357	ug/l	94
69) o-Xylene	10.72	106	106142	21.276	ug/l	94
70) Styrene	10.80	104	145347	21.468	ug/l	98
71) Bromoform	10.78	173	26637	20.617	ug/l	89
73) Isopropylbenzene	11.13	105	305692	20.020	ug/l	98
74) N-amyl acetate	11.38	43	68120	19.597	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	50896	20.161	ug/l	100
76) 1,2,3-Trichloropropane	11.80	75	35974	19.187	ug/l	94
77) Bromobenzene	11.50	156	65131	20.492	ug/l	95
78) n-propylbenzene	11.60	91	373382	20.967	ug/l	94
79) 2-Chlorotoluene	11.72	91	207509	20.048	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	256852	21.188	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	18160m	19.715	ug/l	
82) 4-Chlorotoluene	11.90	91	219972	20.745	ug/l	97
83) tert-Butylbenzene	12.14	119	263779	20.494	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	258108	20.587	ug/l	94
85) sec-Butylbenzene	12.31	105	365637	20.941	ug/l	95
86) p-Isopropyltoluene	12.46	119	305768	20.968	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	130525	20.636	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	121278	19.950	ug/l	95
89) n-Butylbenzene	12.85	91	310570	20.869	ug/l	97
90) Hexachloroethane	12.92	117	73466	20.597	ug/l	84
91) 1,2-Dichlorobenzene	12.95	146	123884	20.801	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8058	16.983	ug/l	70

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Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	87524	20.447	µg/l	95
94) Hexachlorobutadiene	14.19	225	54286	19.407	µg/l	93
95) Naphthalene	14.46	128	147052	18.827	µg/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	81665	20.646	µg/l	94

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

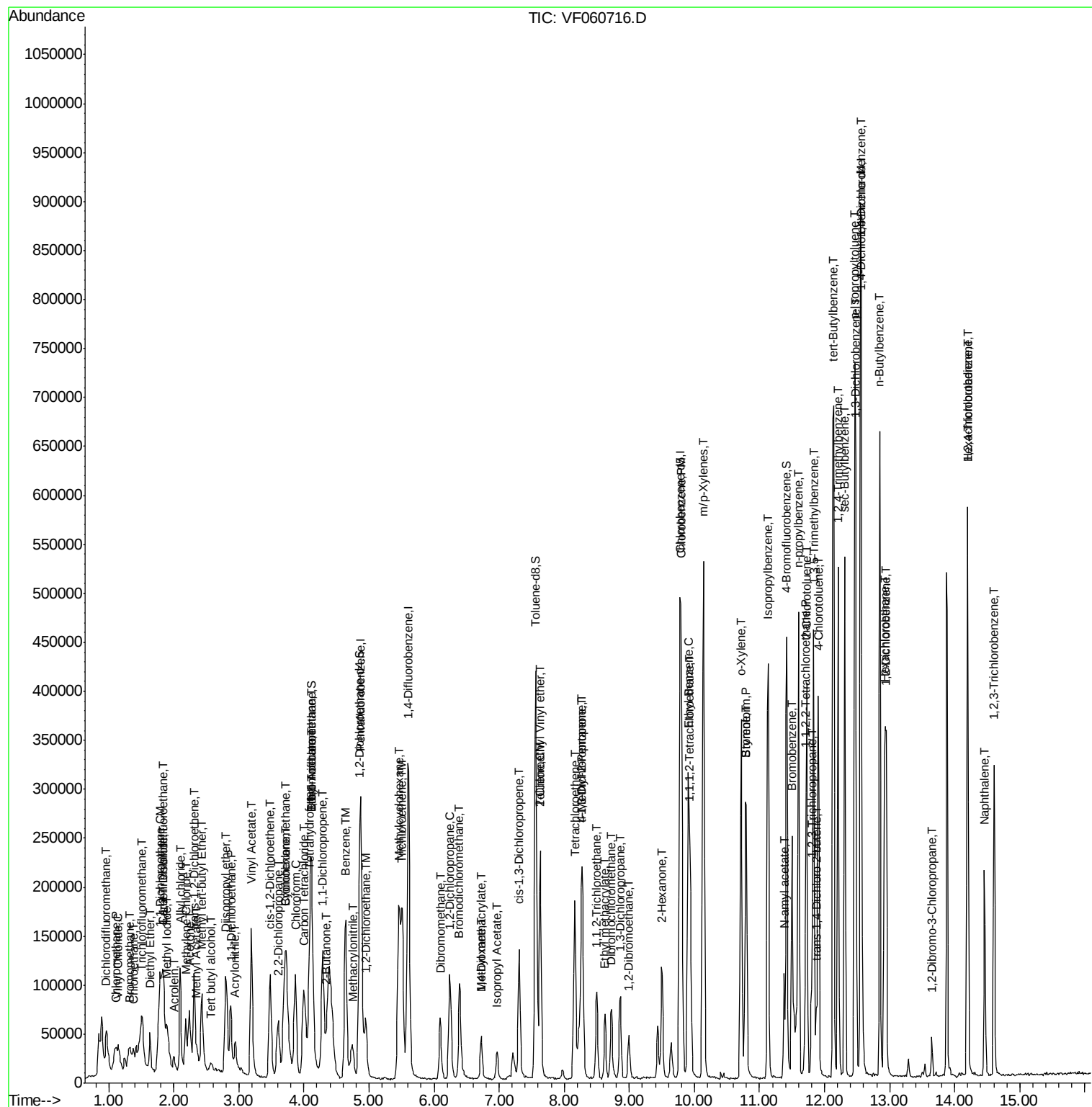
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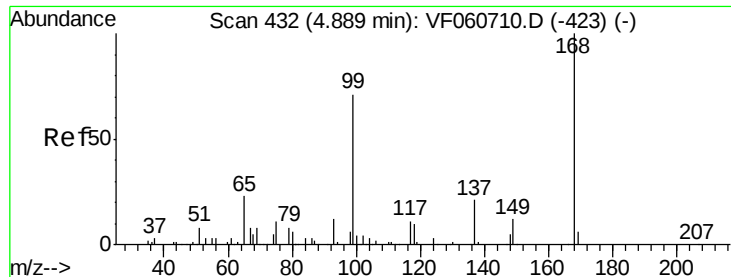
Instrument :
 MSVOA_F
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion:168 Resp: 215967

Ion Ratio Lower Upper

168 100

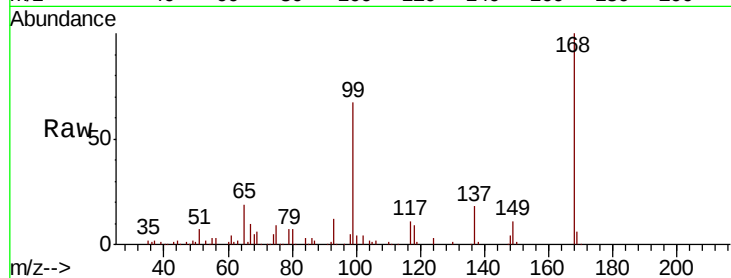
99 67.0 57.2 85.8

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

60000

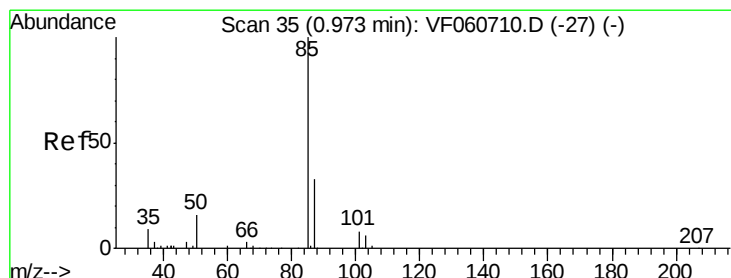
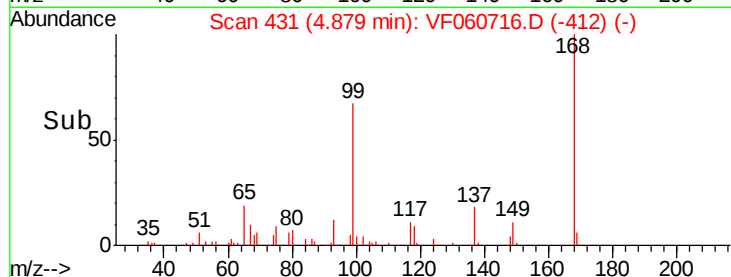
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.497 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060716.D

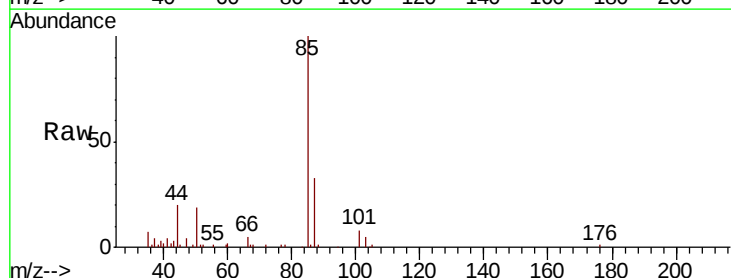
Acq: 13 Nov 2018 19:08

Tgt Ion: 85 Resp: 83087

Ion Ratio Lower Upper

85 100

87 33.0 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

15000

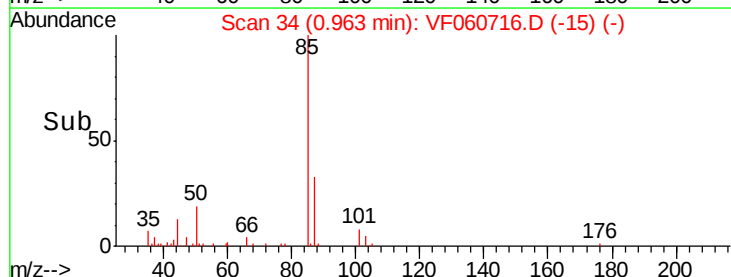
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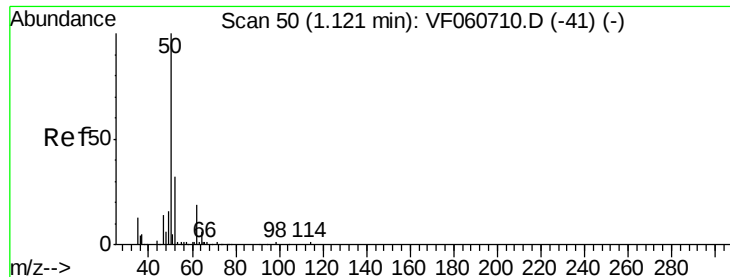
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 21.997 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.02 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 50 Resp: 52728

Ion Ratio Lower Upper

50 100

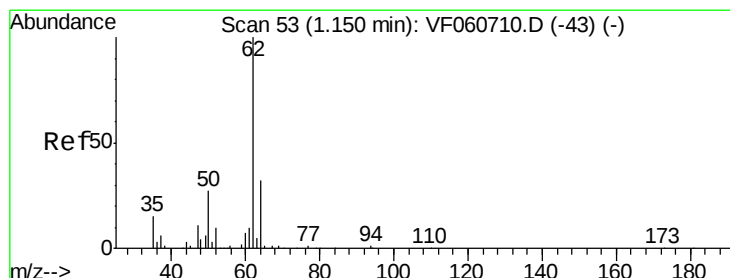
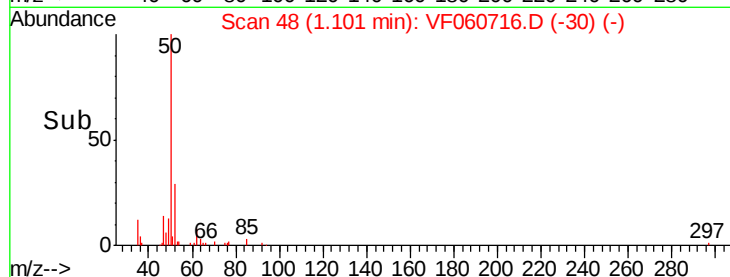
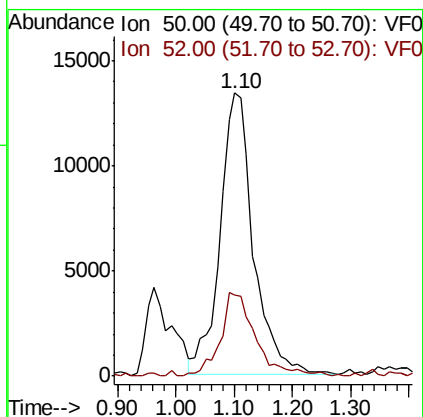
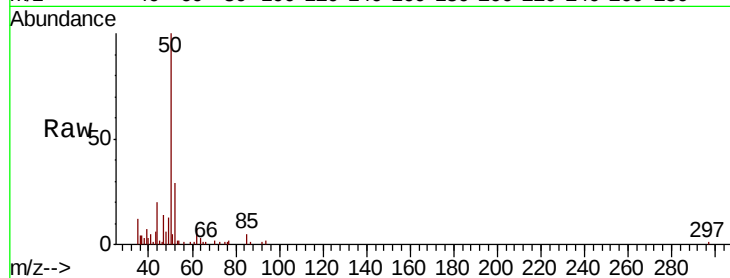
52 28.8 24.2 36.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.101 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF060716.D

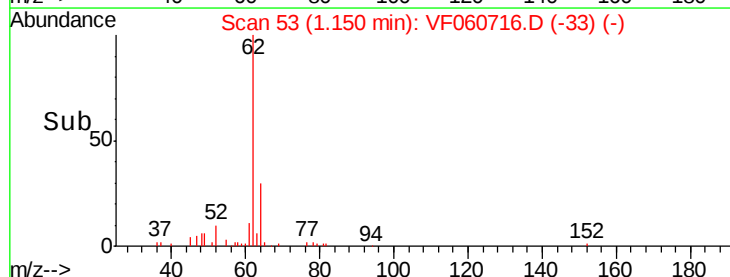
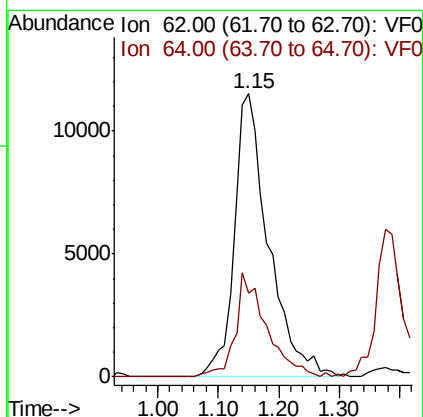
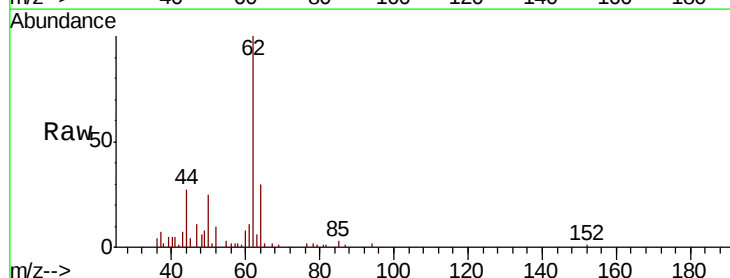
Acq: 13 Nov 2018 19:08

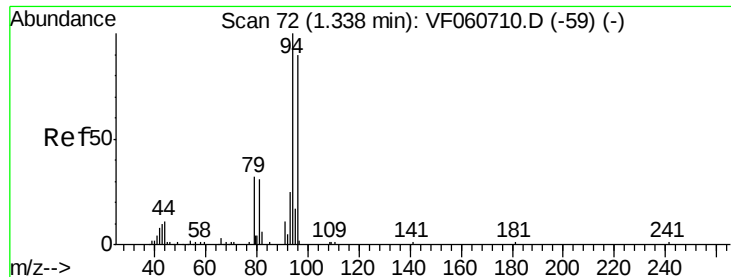
Tgt Ion: 62 Resp: 45247

Ion Ratio Lower Upper

62 100

64 29.6 25.8 38.8





#5

Bromomethane

Concen: 19.948 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 94 Resp: 27170

Ion Ratio Lower Upper

94 100

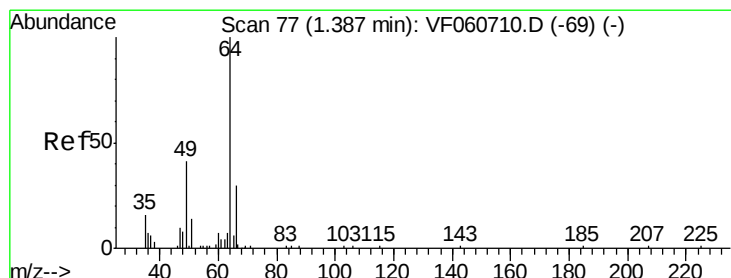
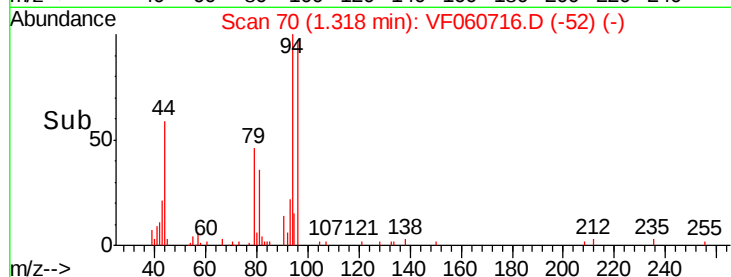
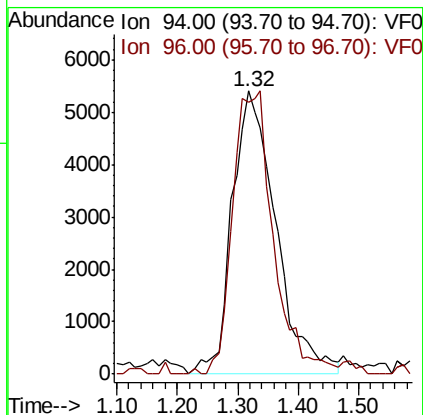
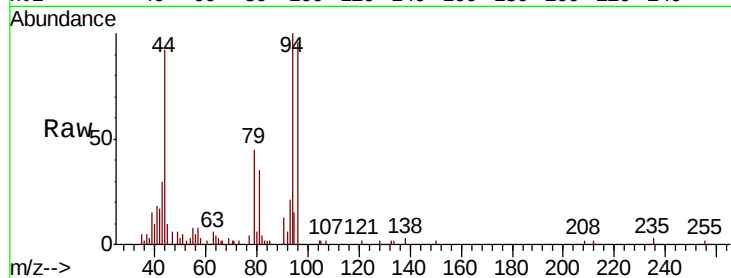
96 96.2 71.9 107.9

Manual Integrations

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#6

Chloroethane

Concen: 21.713 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF060716.D

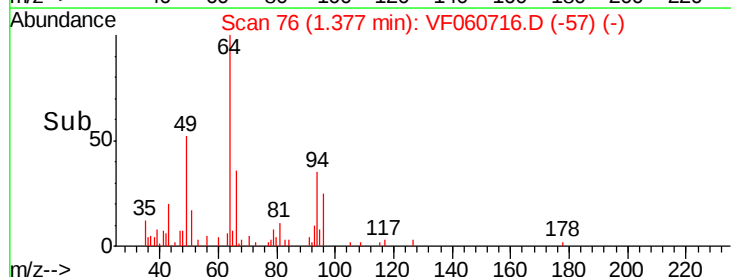
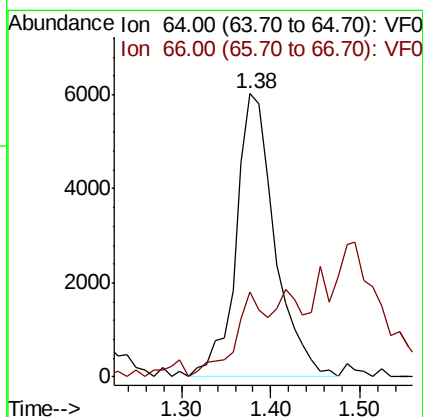
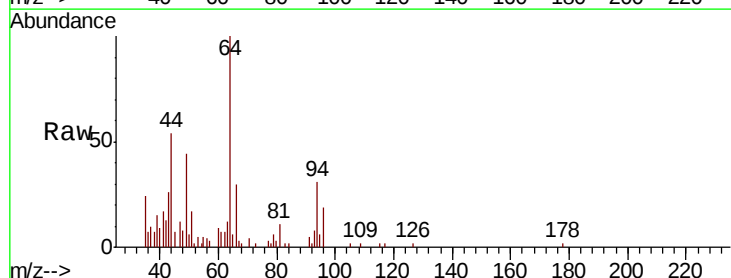
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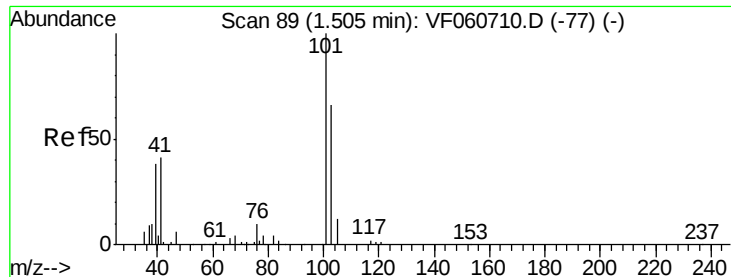
Tgt Ion: 64 Resp: 18216

Ion Ratio Lower Upper

64 100

66 30.1 24.8 37.2





#7

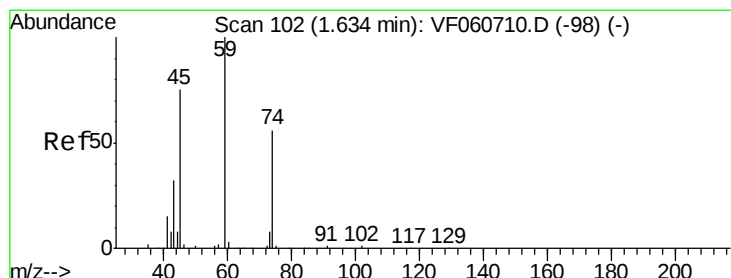
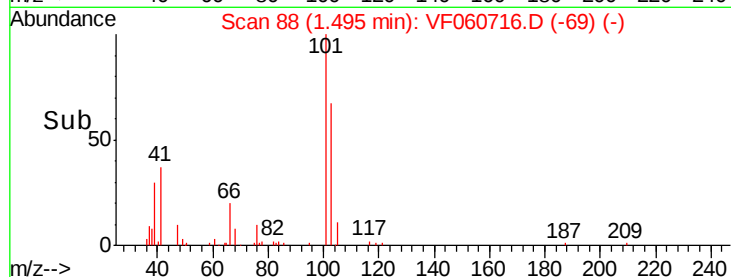
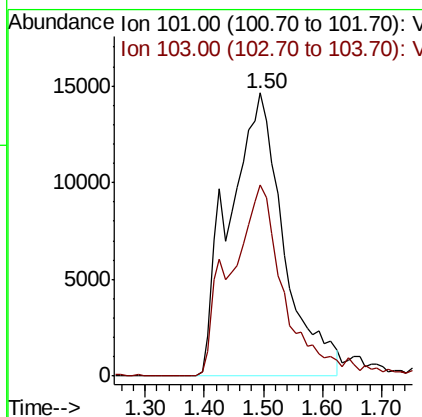
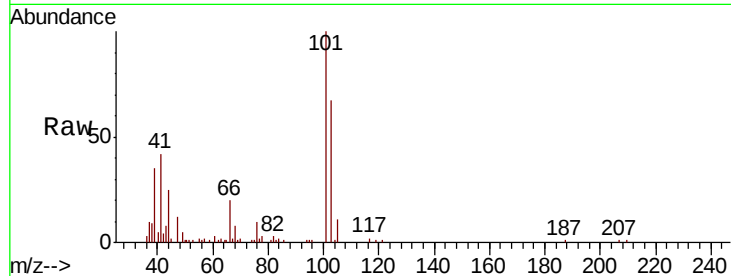
Trichlorofluoromethane
 Concen: 19.757 ug/l m
 RT: 1.50 min Scan# 88
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
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 ClientSampleId :
 VF1113SBS01

Tot Ion:101 Resp: 93684
 Ion Ratio Lower Upper
 101 100
 103 67.4 53.1 79.7

Manual Integrations
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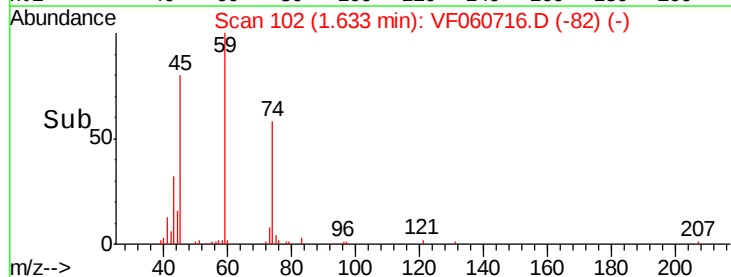
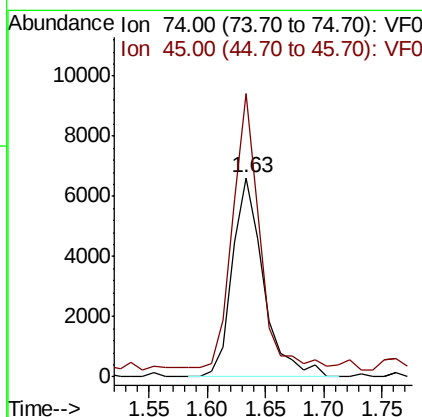
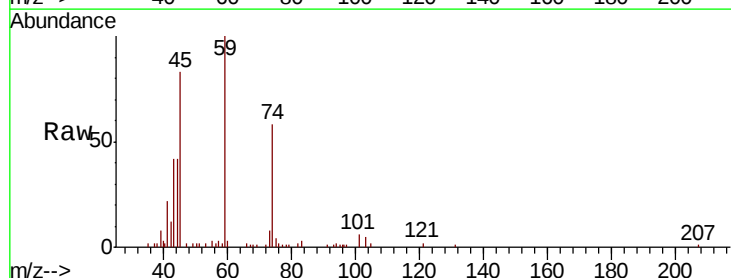
sam
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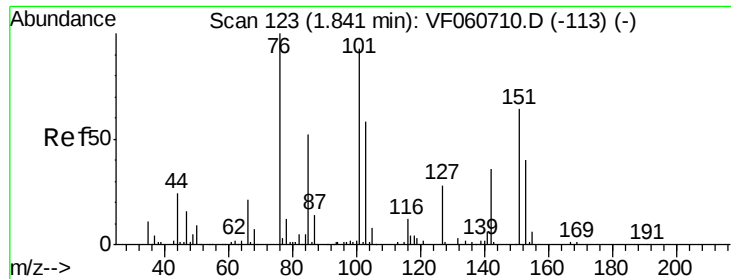


#8

Diethyl Ether
 Concen: 20.187 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.00 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion: 74 Resp: 12264
 Ion Ratio Lower Upper
 74 100
 45 142.3 67.7 203.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.685 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

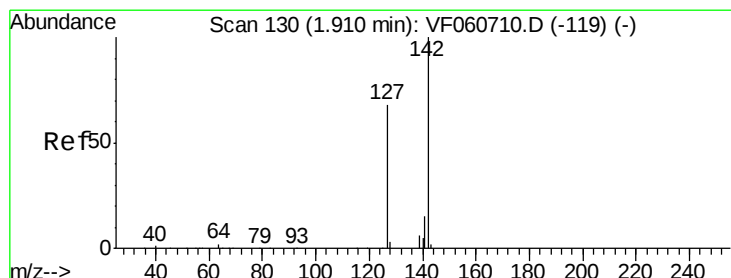
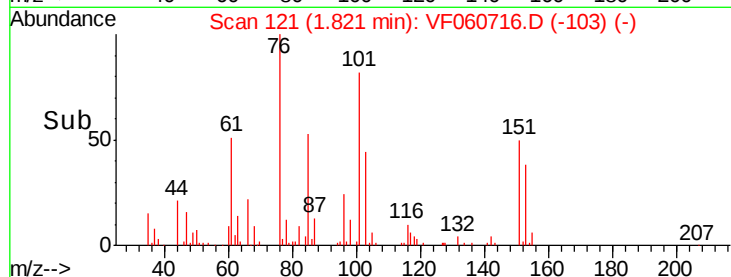
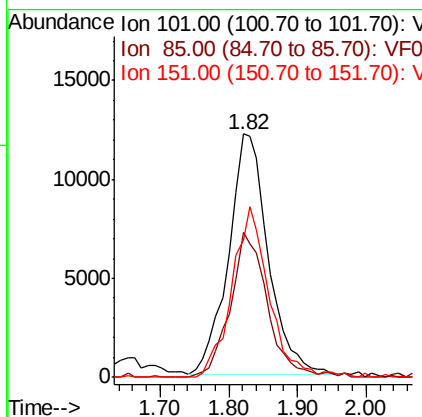
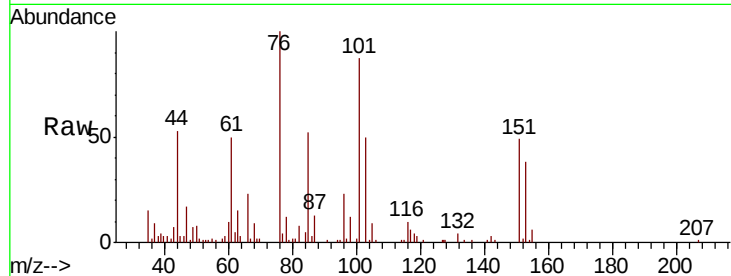
ClientSampleId :

VF1113SBS01

Tot Ion:	101	Resp:	48454
Ion Ratio	Lower	Upper	
101	100		
85	59.5	43.6	65.4
151	56.5	53.1	79.7

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#10

Methyl Iodide

Concen: 20.868 ug/l m

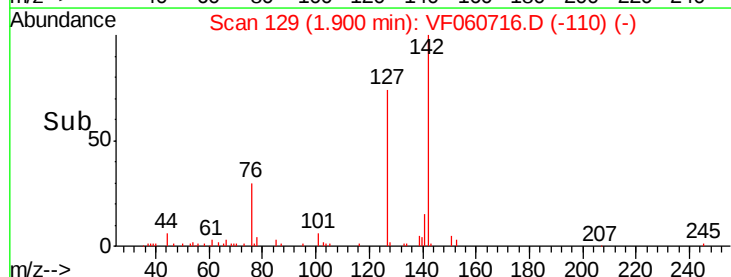
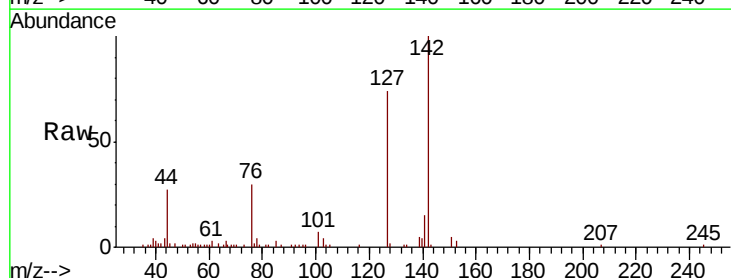
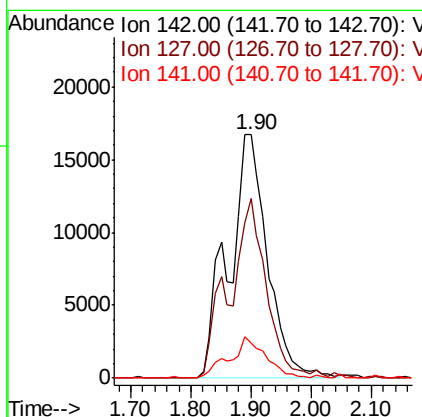
RT: 1.90 min Scan# 129

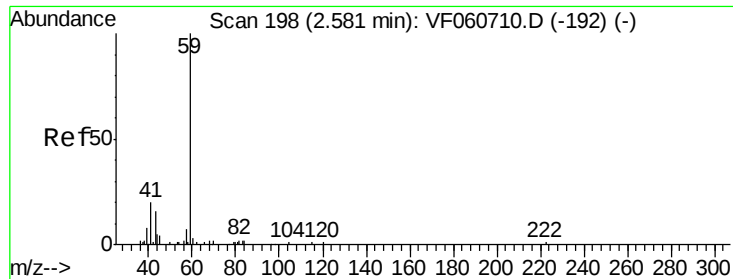
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	142	Resp:	74814
Ion Ratio	Lower	Upper	
142	100		
127	73.7	54.0	81.0
141	14.5	12.3	18.5





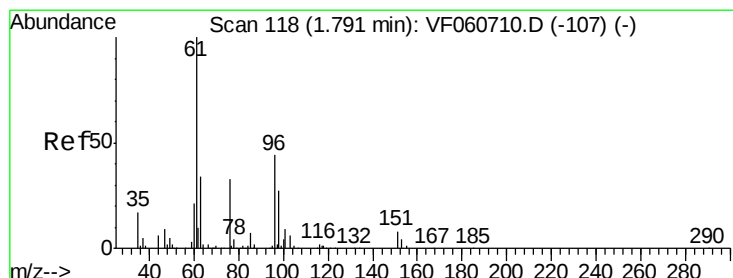
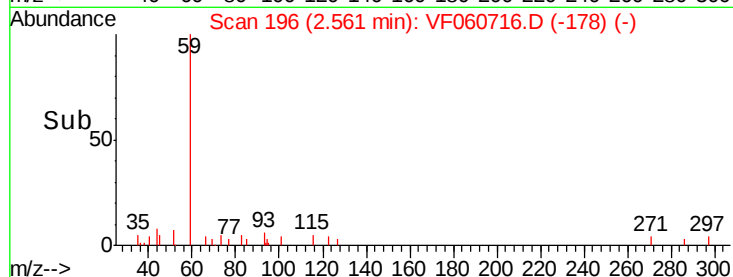
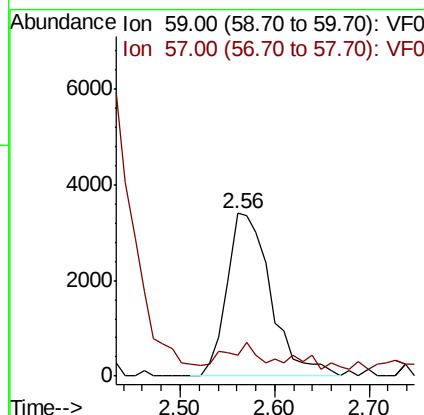
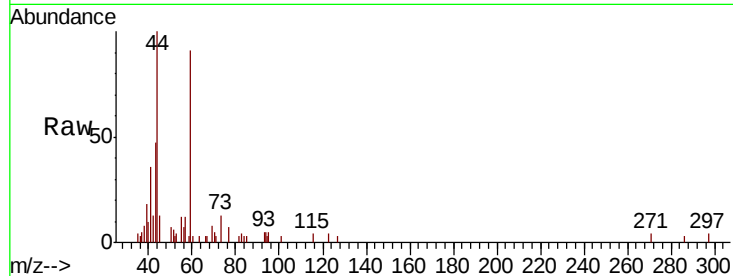
#11
Tert butyl alcohol
Concen: 97.717 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion: 59 Resp: 10955
Ion Ratio Lower Upper
59 100
57 12.9 10.5 15.7

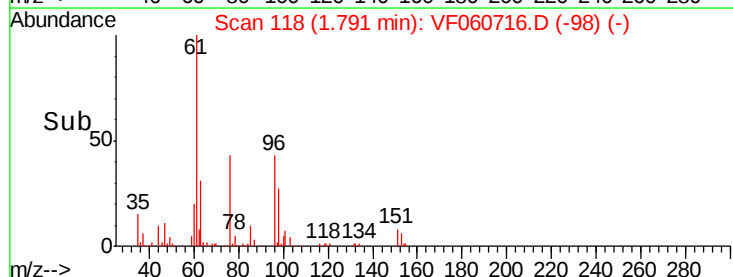
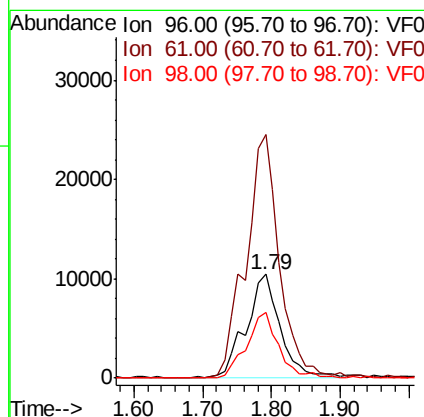
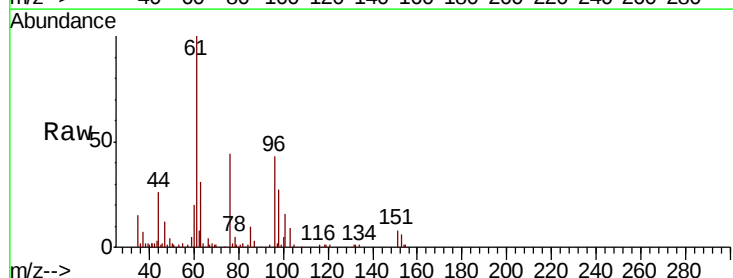
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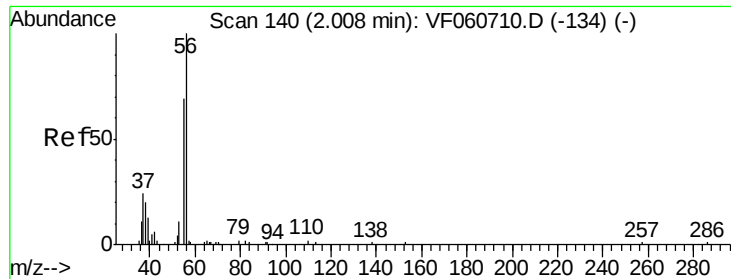
sam
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#12
1,1-Dichloroethene
Concen: 20.633 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion: 96 Resp: 36354
Ion Ratio Lower Upper
96 100
61 235.2 182.2 273.2
98 65.8 49.2 73.8





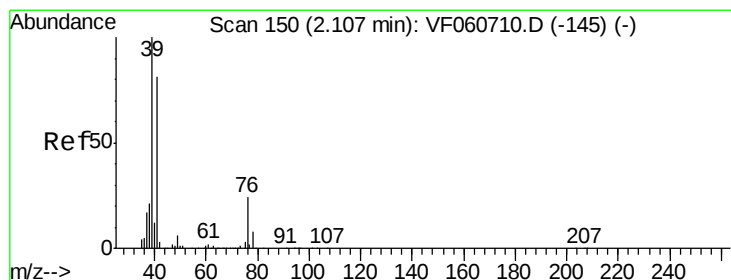
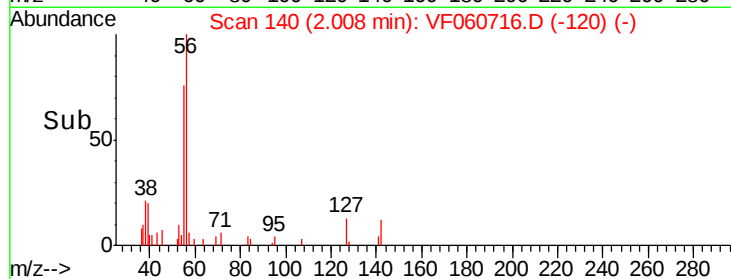
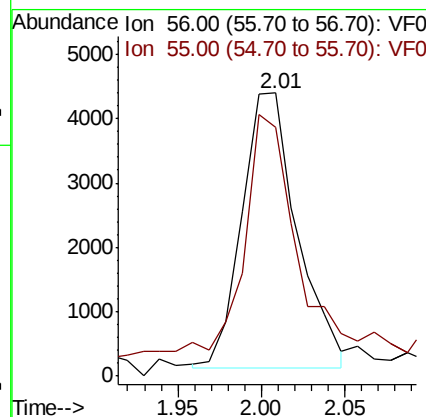
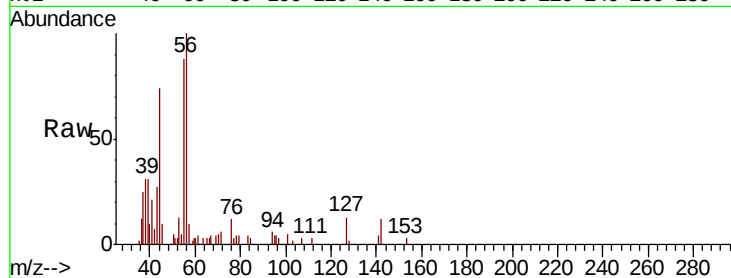
#13
 Acrolein
 Concen: 96.598 ug/l m
 RT: 2.01 min Scan# 140
 Delta R.T. -0.00 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	56	Resp	9902
Ion Ratio	100	Lower	Upper
55	87.9	56.6	85.0#

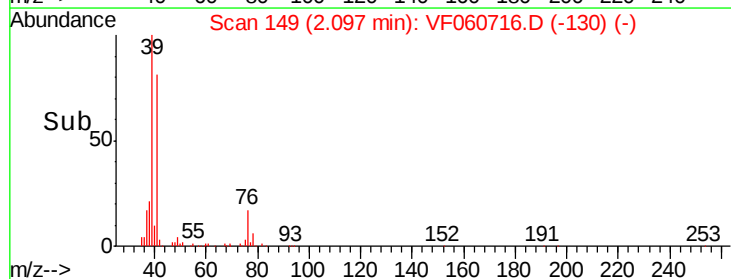
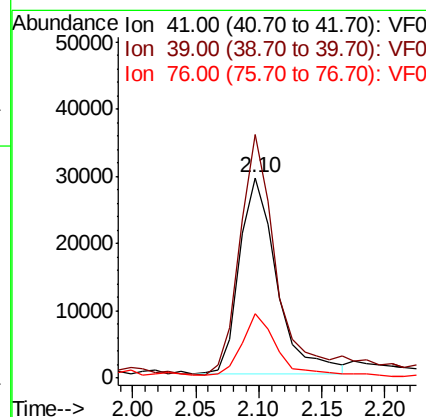
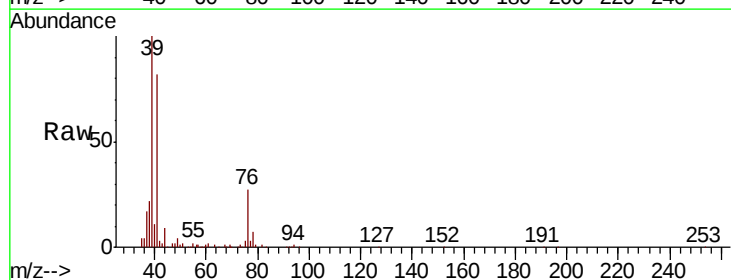
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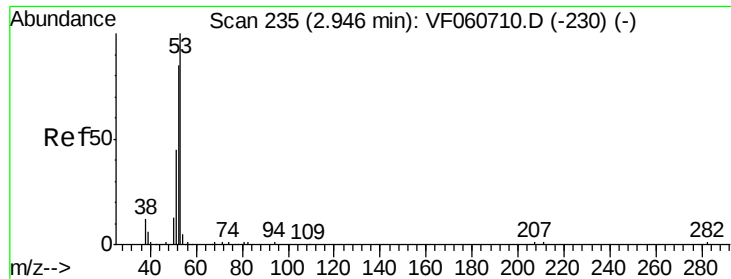
sam
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#14
 Allyl chloride
 Concen: 19.323 ug/l
 RT: 2.10 min Scan# 149
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	41	Resp	59644
Ion Ratio	100	Lower	Upper
39	121.6	98.5	147.7
76	32.2	24.5	36.7





#15

Acrylonitrile

Concen: 107.037 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

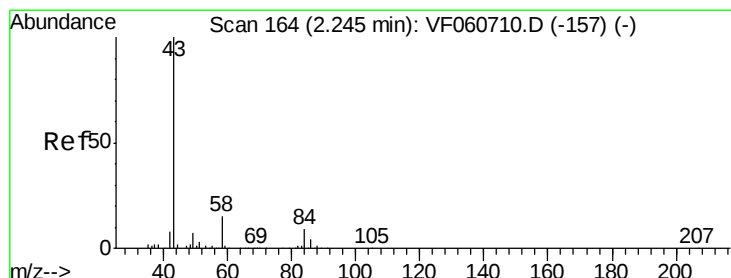
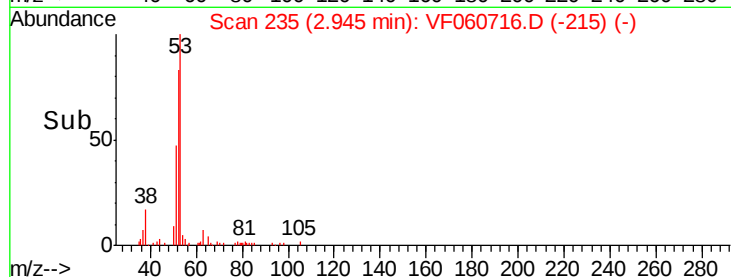
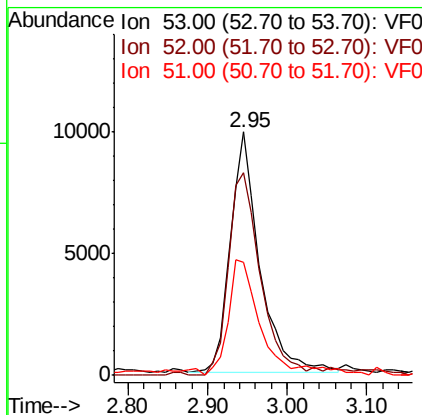
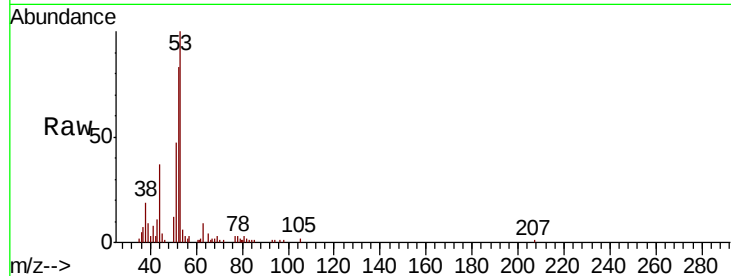
ClientSampleId :

VF1113SBS01

Tot Ion:	53	Resp:	25570
Ion	Ratio	Lower	Upper
53	100		
52	83.2	68.8	103.2
51	46.6	36.7	55.1

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#16

Acetone

Concen: 89.320 ug/l

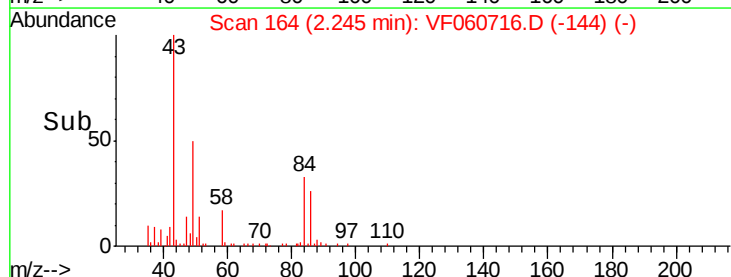
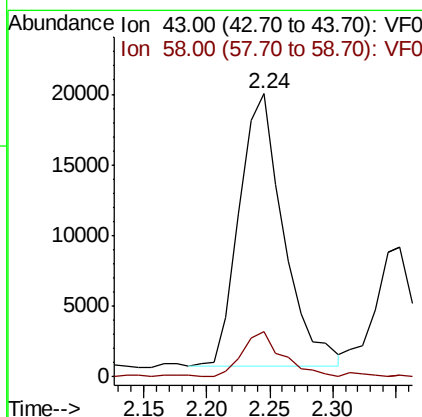
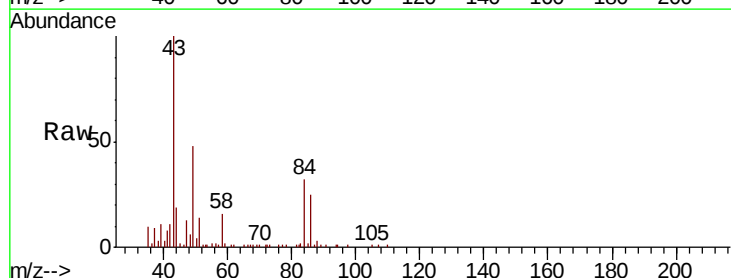
RT: 2.24 min Scan# 164

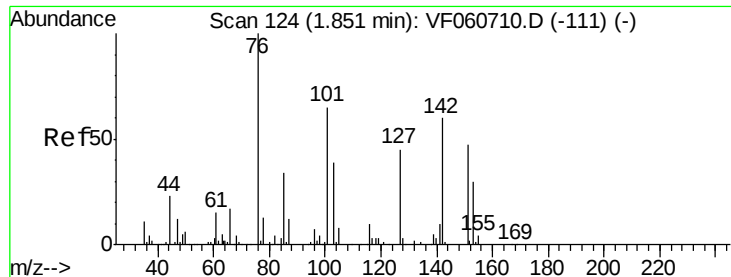
Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	43	Resp:	47029
Ion	Ratio	Lower	Upper
43	100		
58	15.9	11.6	17.4





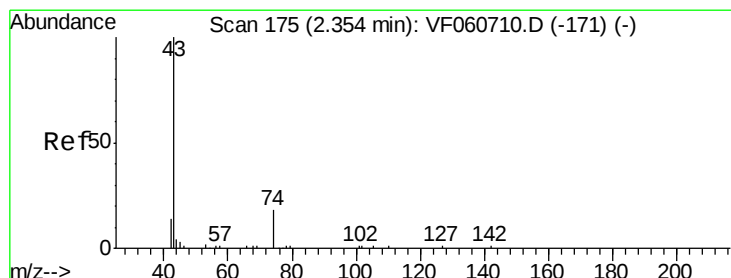
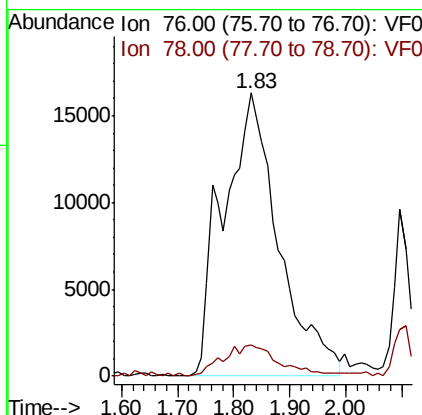
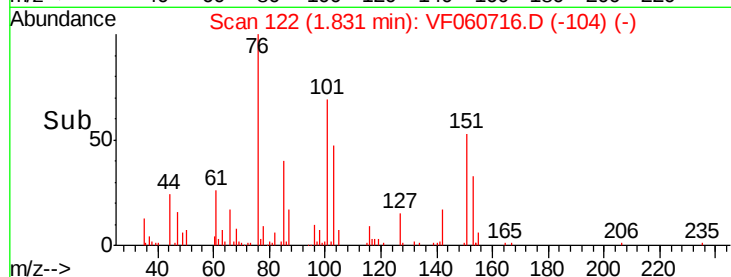
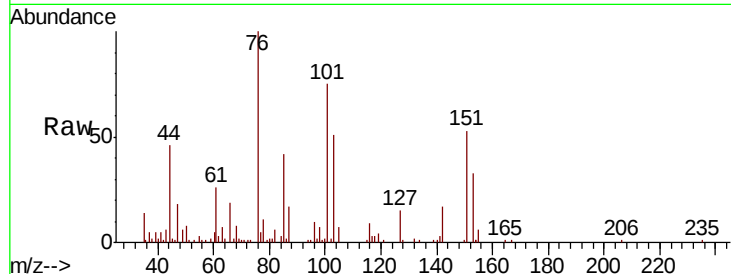
#17
Carbon Disulfide
Concen: 21.045 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.02 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion: 76 Resp: 112069
Ion Ratio Lower Upper
76 100
78 10.9 10.5 15.7

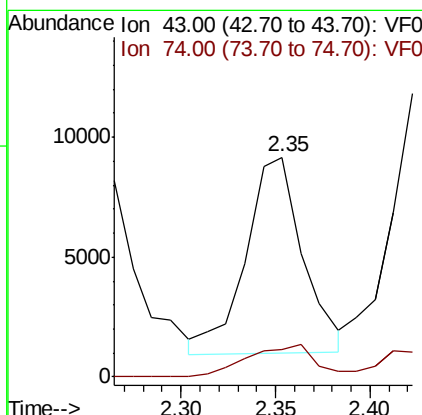
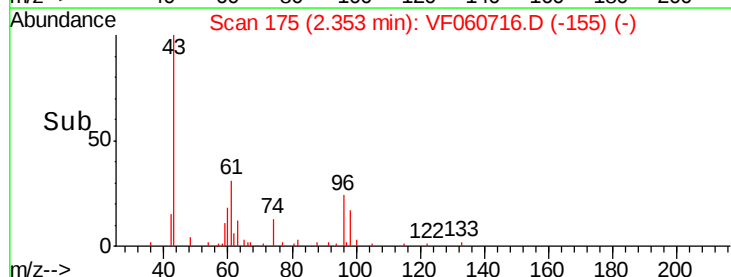
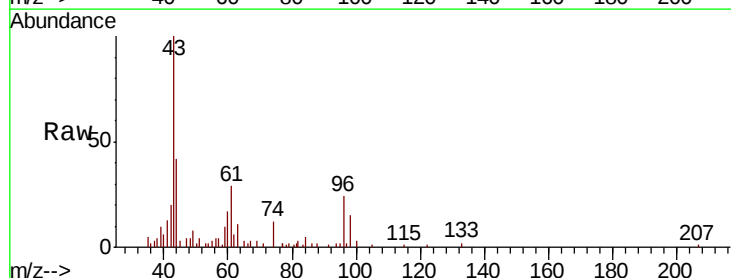
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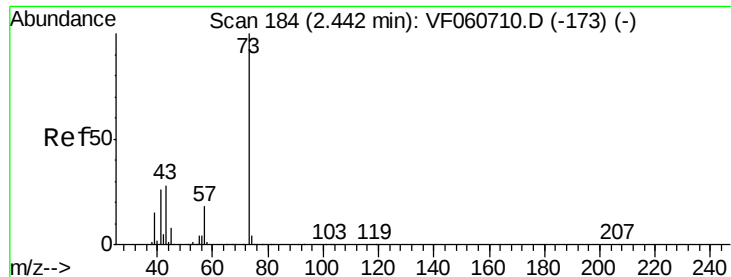
sam
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#18
Methyl Acetate
Concen: 19.853 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion: 43 Resp: 17164
Ion Ratio Lower Upper
43 100
74 12.3 11.8 17.8





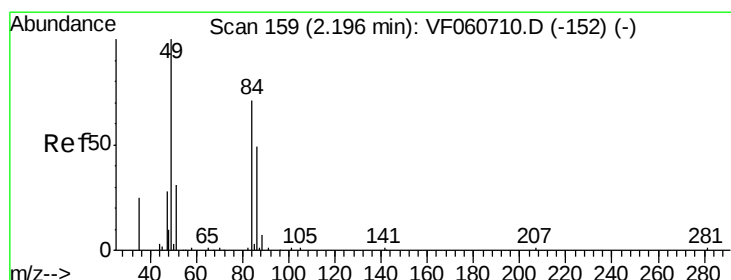
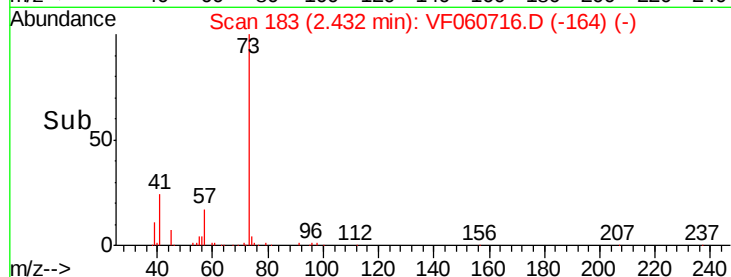
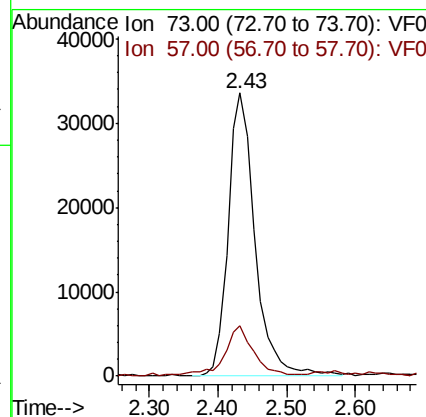
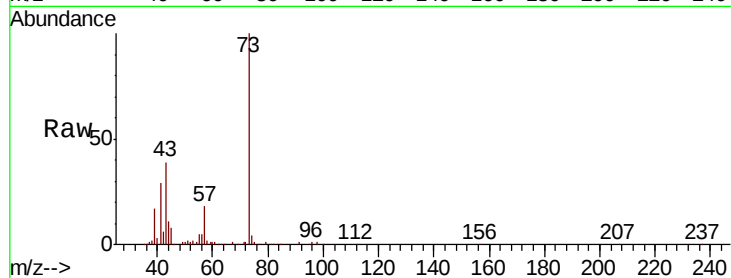
#19
Methyl tert-butyl Ether
Concen: 21.410 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.6	14.3	21.5

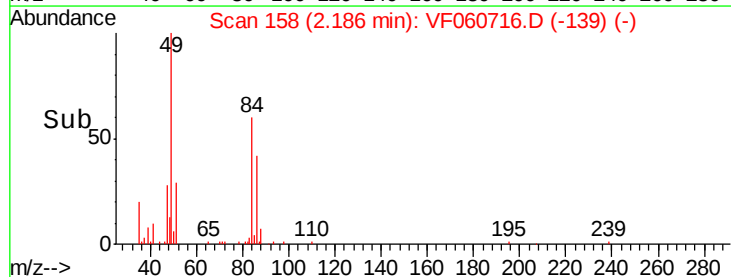
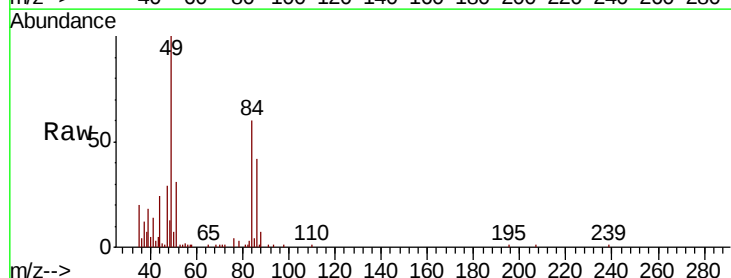
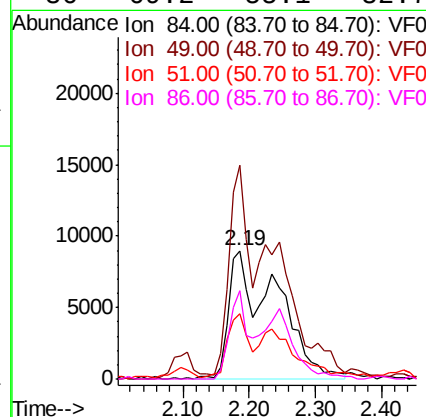
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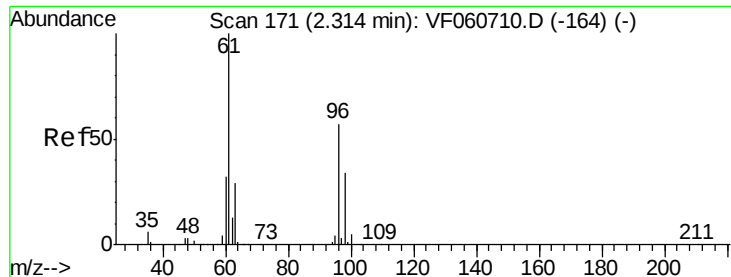
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#20
Methylene Chloride
Concen: 24.237 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	166.1	120.2	180.4
51	51.2	37.2	55.8
86	69.2	55.1	82.7





#21

trans-1,2-Dichloroethene

Concen: 21.805 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

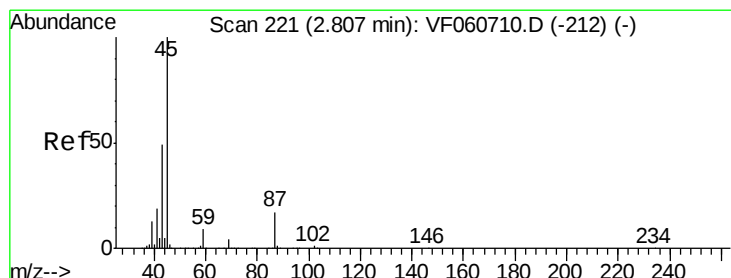
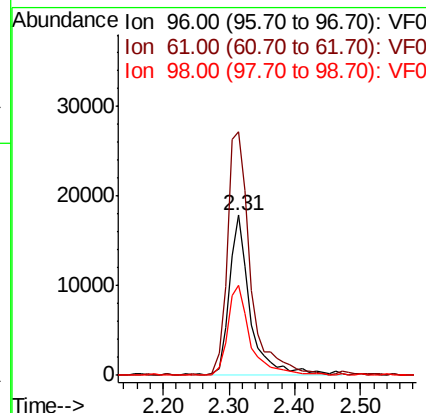
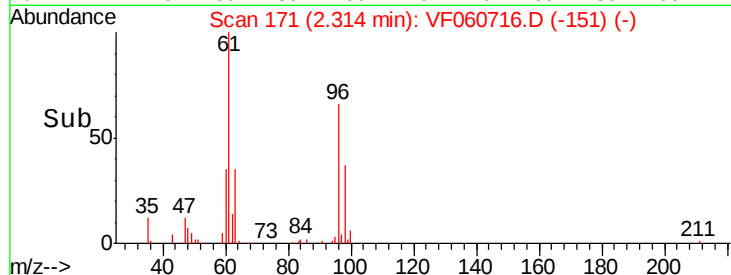
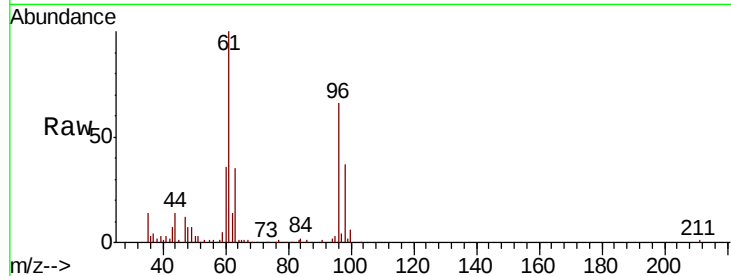
ClientSampleId :

VF1113SBS01

Tot Ion:	96	Resp:	40139
Ion	Ratio	Lower	Upper
96	100		
61	152.2	141.6	212.4
98	56.0	47.4	71.0

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#22

Diisopropyl ether

Concen: 20.319 ug/l

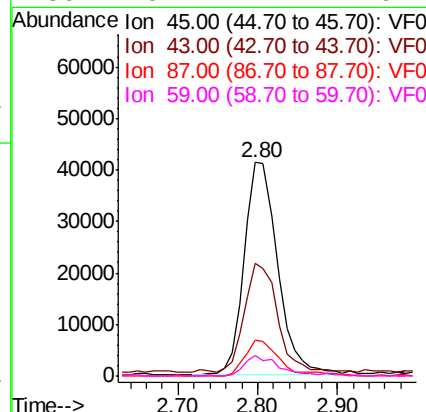
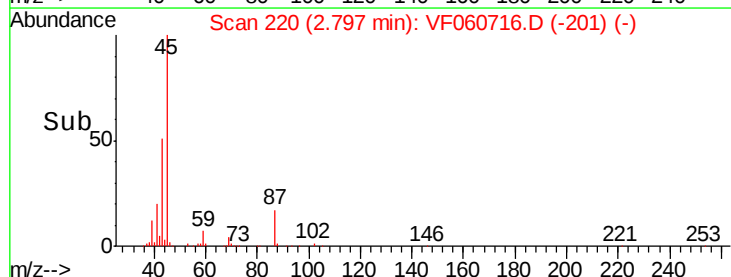
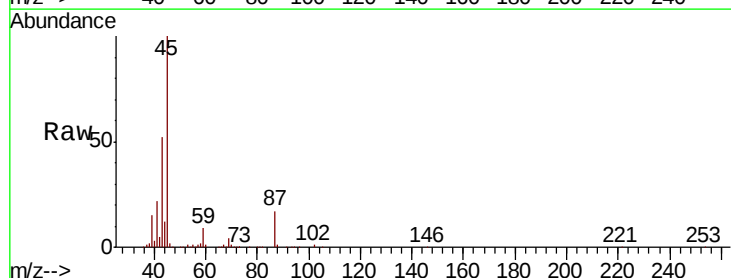
RT: 2.80 min Scan# 220

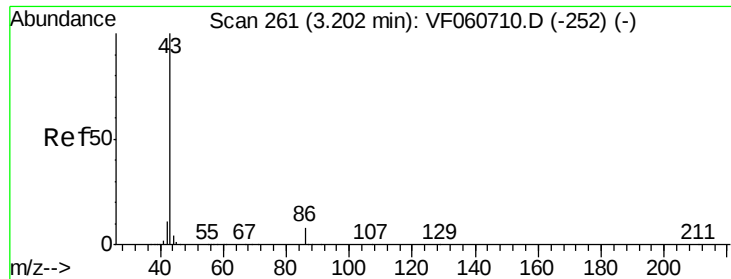
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	45	Resp:	121090
Ion	Ratio	Lower	Upper
45	100		
43	52.4	39.9	59.9
87	16.7	13.9	20.9
59	9.4	7.1	10.7





#23

Vinyl Acetate

Concen: 105.177 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 43 Resp: 295149

Ion Ratio Lower Upper

43 100

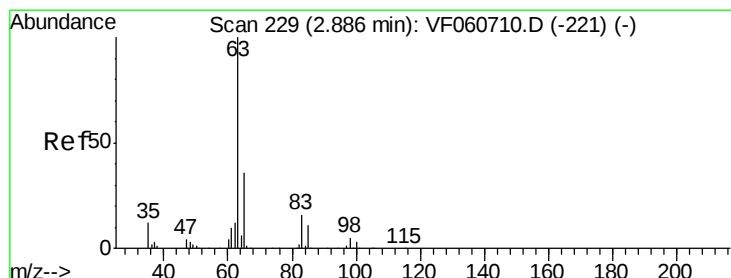
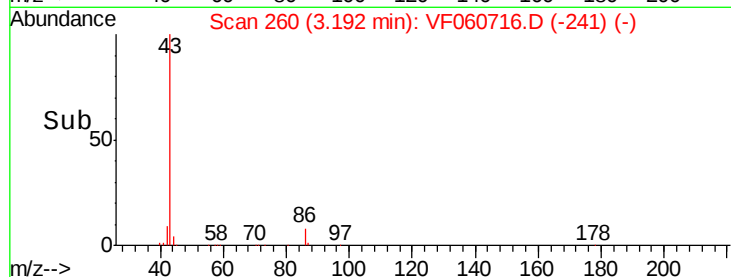
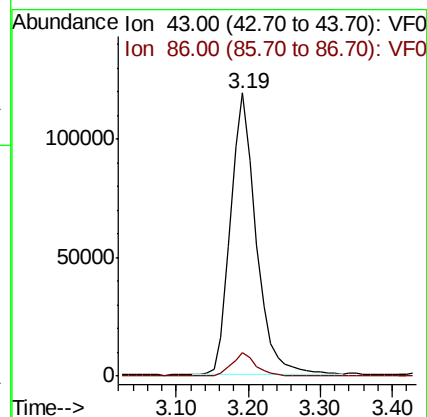
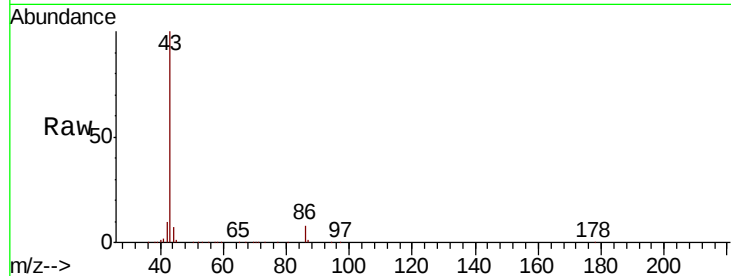
86 8.3 6.4 9.6

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#24

1,1-Dichloroethane

Concen: 20.215 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

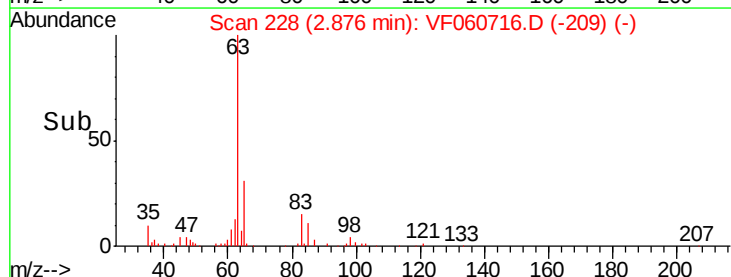
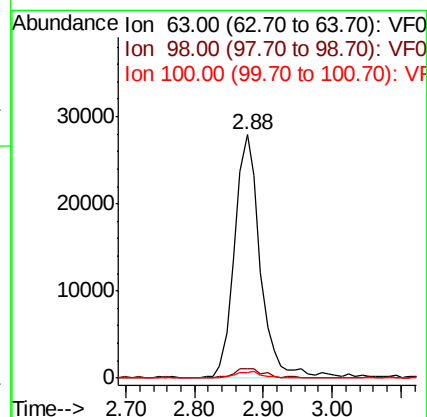
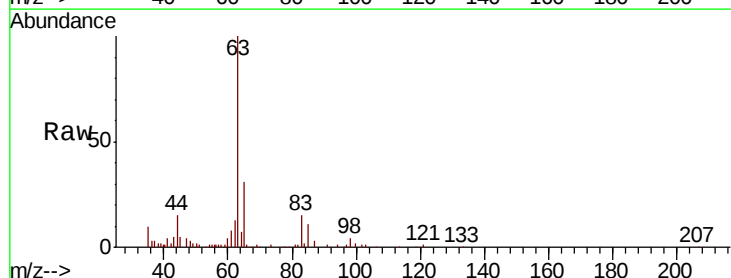
Tgt Ion: 63 Resp: 72932

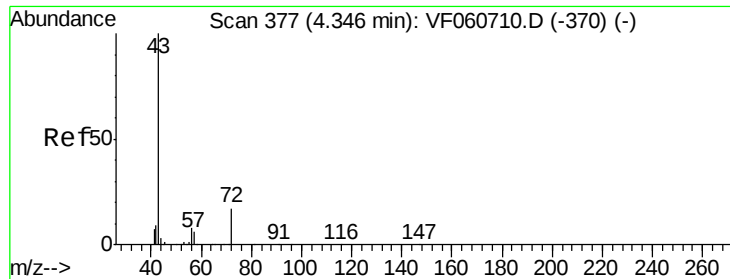
Ion Ratio Lower Upper

63 100

98 3.7 2.4 7.1

100 2.0 1.4 4.2





#25

2-Butanone

Concen: 101.633 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 43 Resp: 88019

Ion Ratio Lower Upper

43 100

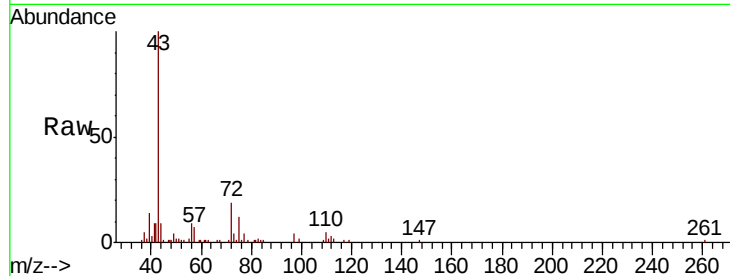
72 19.4 16.1 24.1

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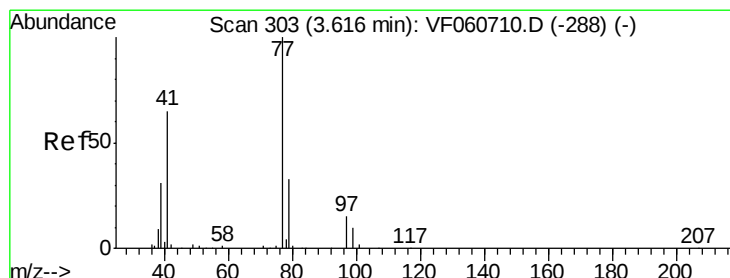
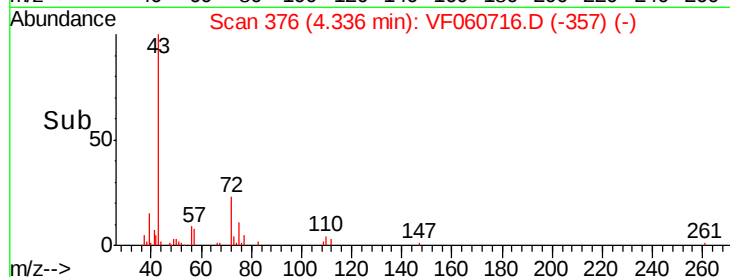
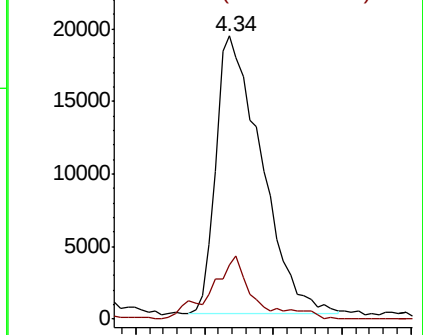
sam

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 19.981 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF060716.D

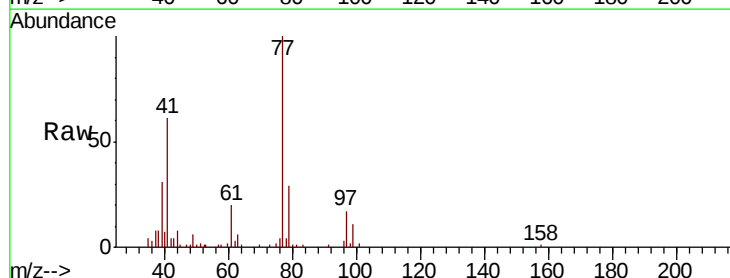
Acq: 13 Nov 2018 19:08

Tgt Ion: 77 Resp: 56728

Ion Ratio Lower Upper

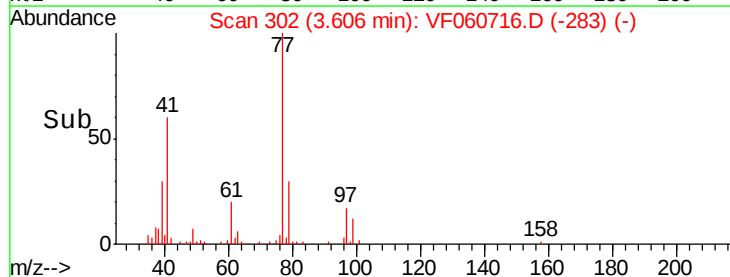
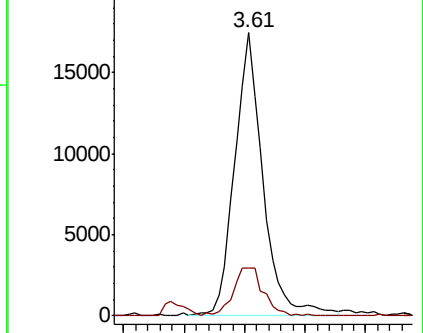
77 100

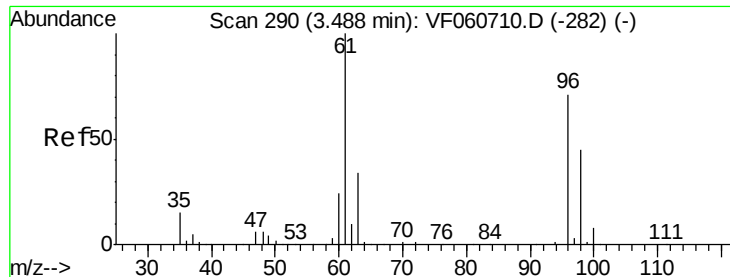
97 17.0 8.8 26.5



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





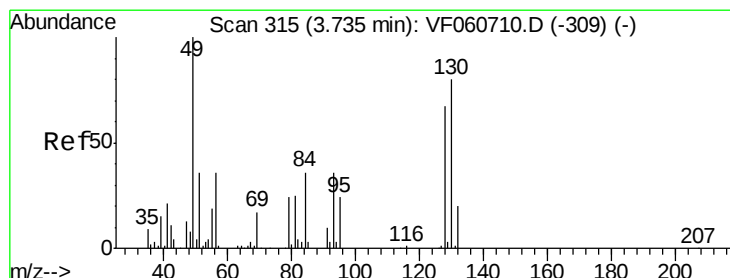
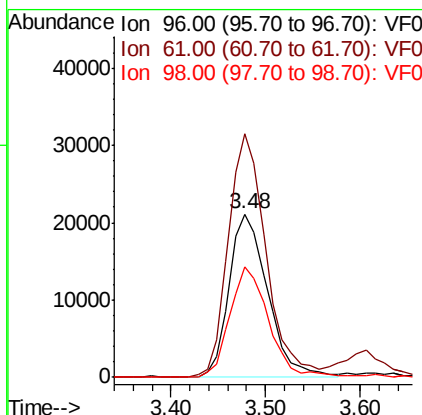
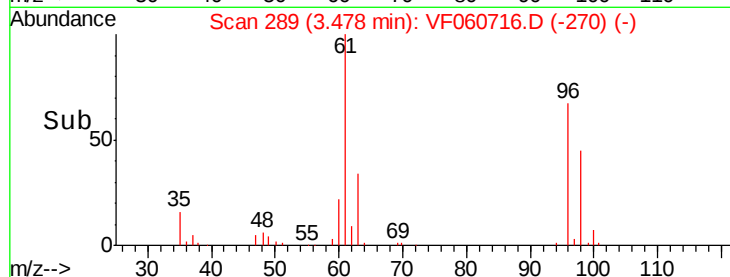
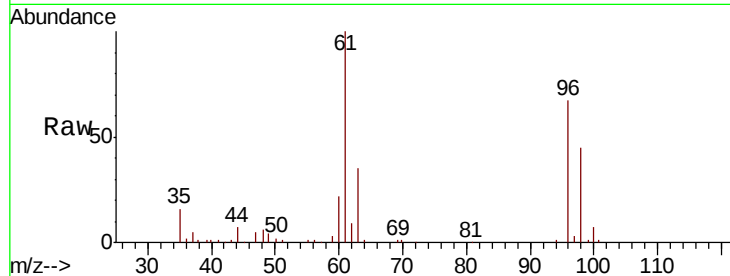
#27
 cis-1,2-Dichloroethene
 Concen: 19.129 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	59904		
61	149.3		0.0	280.6
98	67.8		0.0	127.6

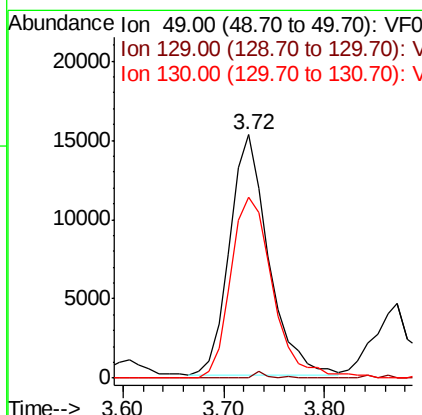
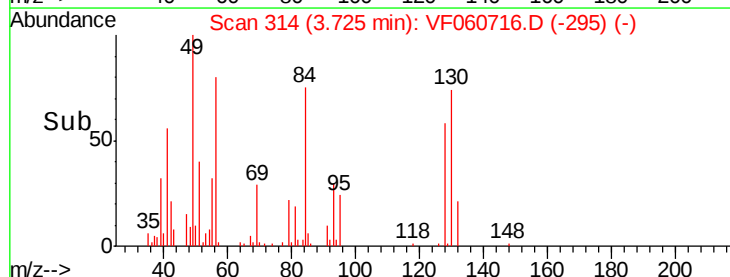
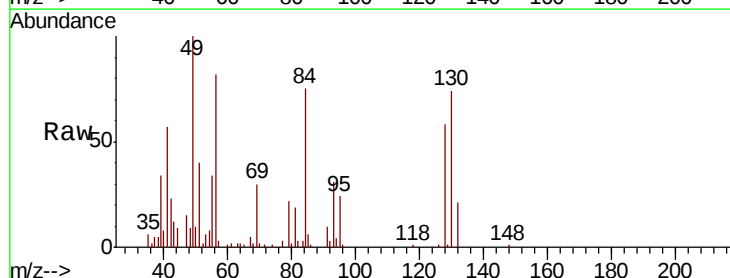
Manual Integrations
 APPROVED

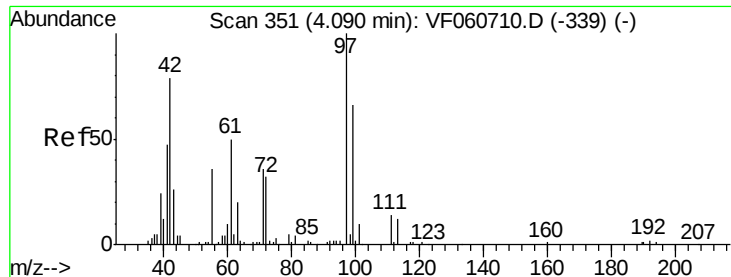
sam
 11/14/2018 9:33:03 AM



#28
 Bromochloromethane
 Concen: 21.908 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41077		
129	0.0		0.0	5.2
130	74.1		63.9	95.9





#29

Tetrahydrofuran

Concen: 110.005 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

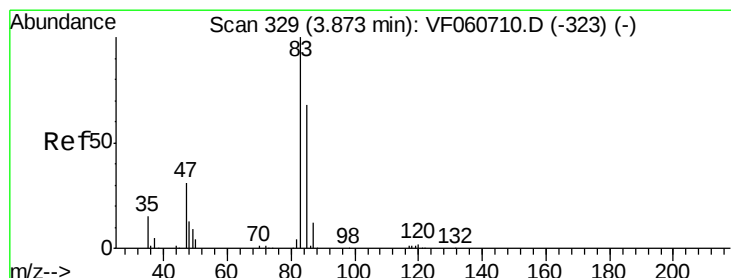
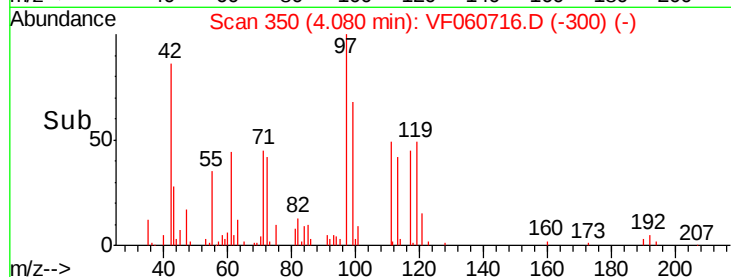
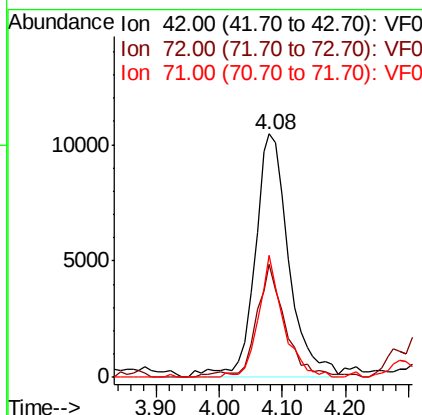
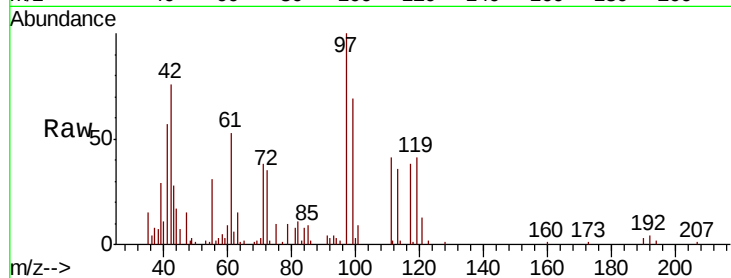
ClientSampleId :

VF1113SBS01

Tot Ion:	42	Resp:	39297
Ion Ratio	Lower	Upper	
42	100		
72	38.6	30.3	45.5
71	36.9	32.2	48.2

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#30

Chloroform

Concen: 20.546 ug/l

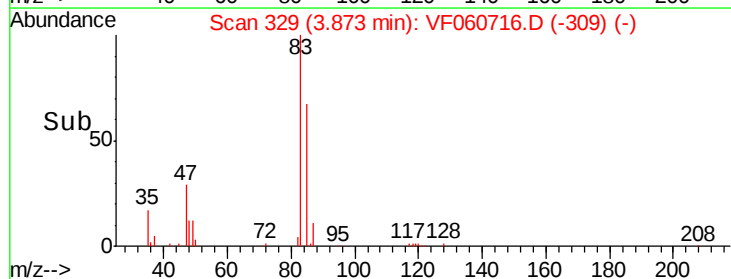
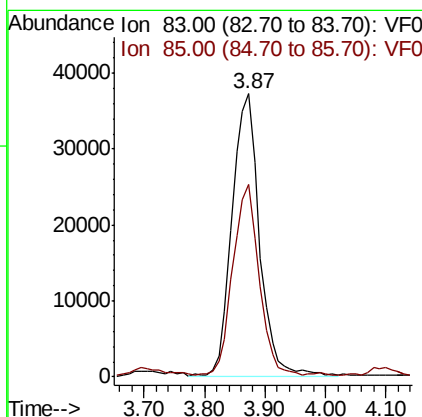
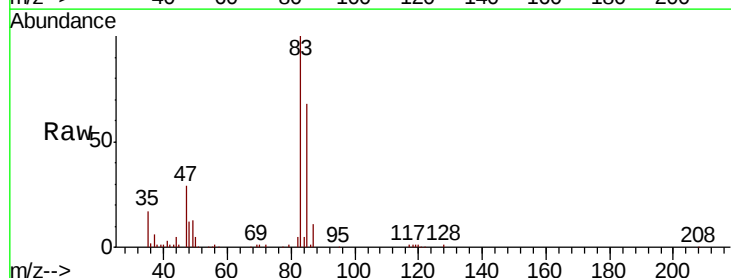
RT: 3.87 min Scan# 329

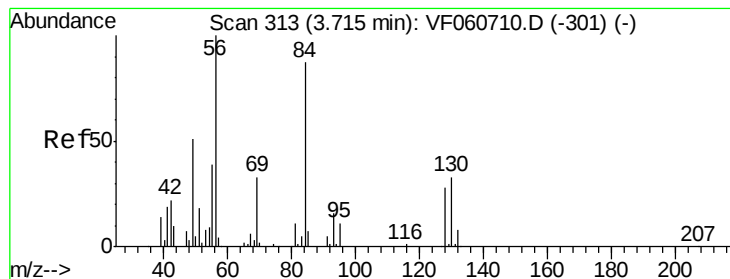
Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	83	Resp:	118933
Ion Ratio	Lower	Upper	
83	100		
85	67.9	54.6	82.0





#31

Cvclohexane

Concen: 22.027 ug/l

RT: 3.70 min Scan# 312

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

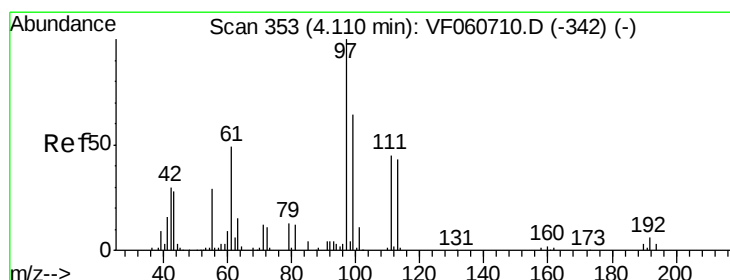
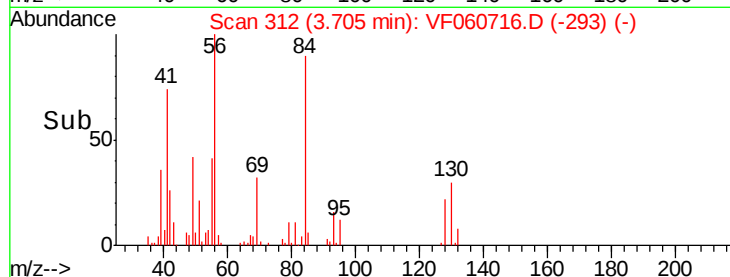
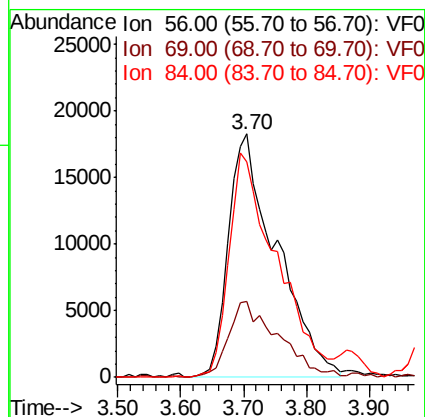
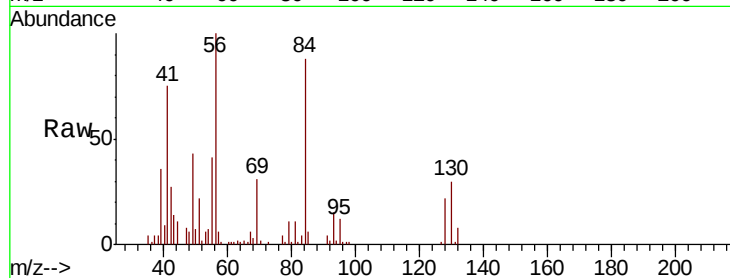
ClientSampleId :

VF1113SBS01

Tot Ion:	56	Resp:	96452
Ion	Ratio	Lower	Upper
56	100		
69	31.2	26.0	39.0
84	88.3	69.4	104.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.378 ug/l

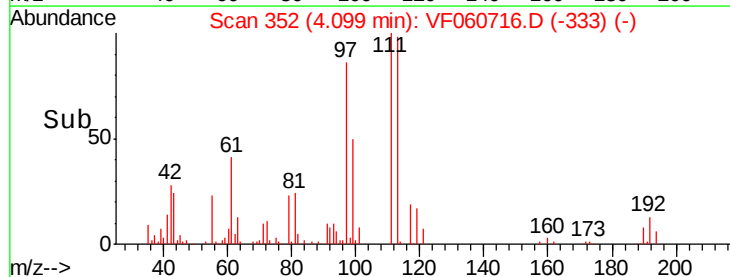
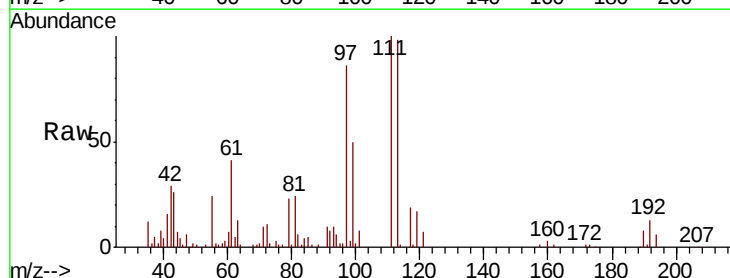
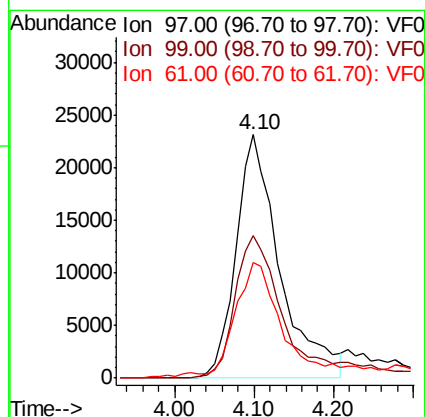
RT: 4.10 min Scan# 352

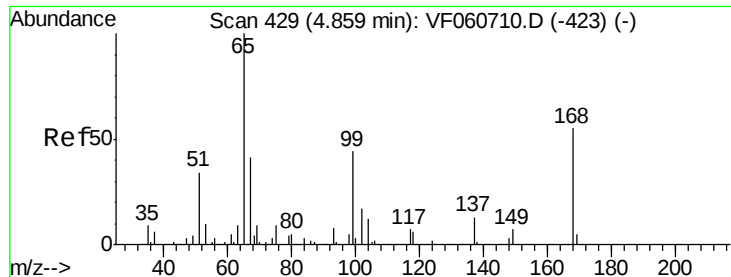
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	97	Resp:	88336
Ion	Ratio	Lower	Upper
97	100		
99	58.8	51.1	76.7
61	47.6	40.1	60.1





#33

1,2-Dichloroethane-d4

Concen: 45.929 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 65 Resp: 113139

Ion Ratio Lower Upper

65 100

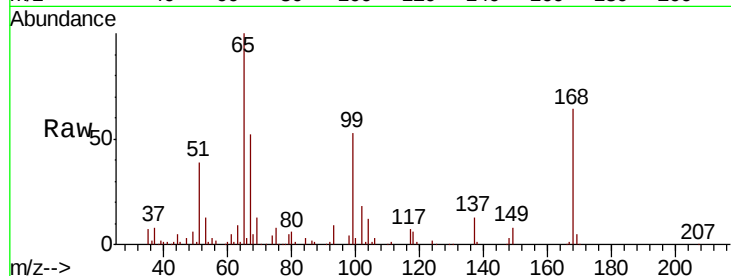
67 52.5 0.0 90.2

Manual Integrations

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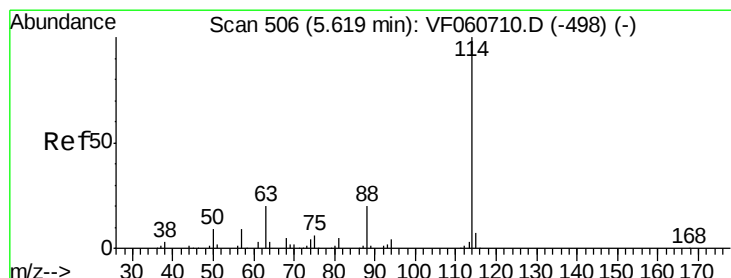
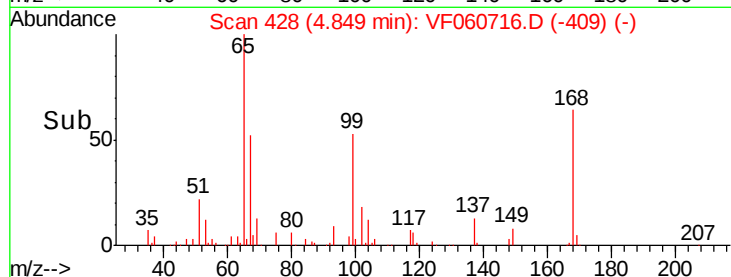
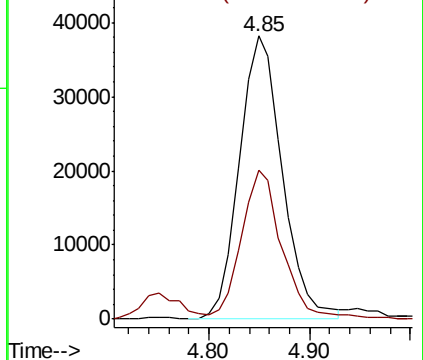
sam

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

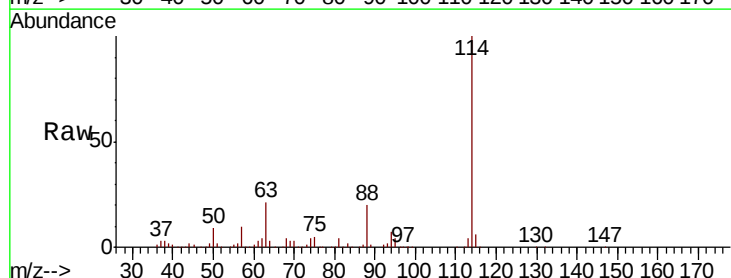
Tgt Ion: 114 Resp: 361021

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.8

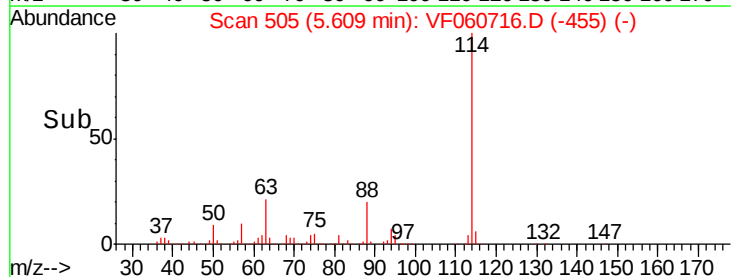
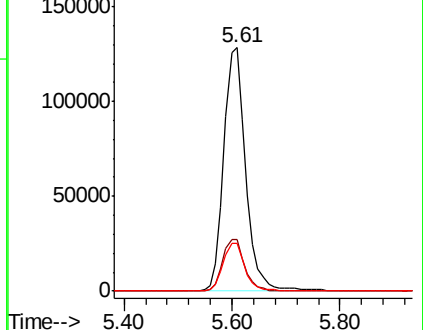
88 19.6 0.0 39.6

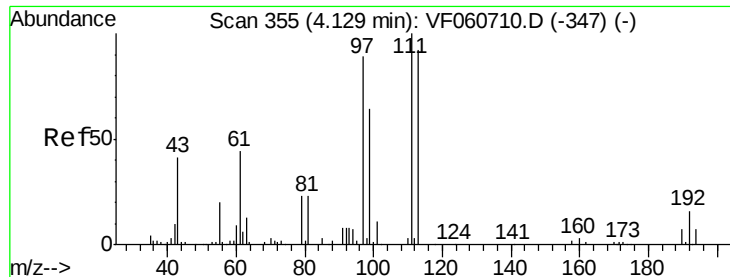


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





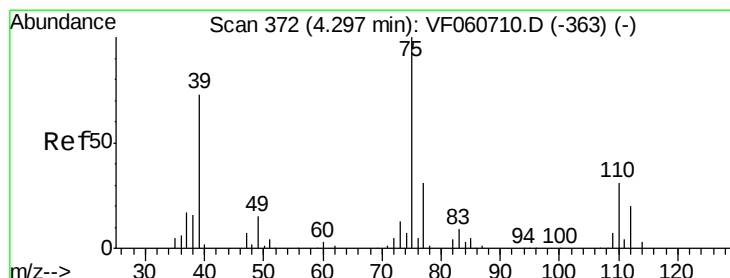
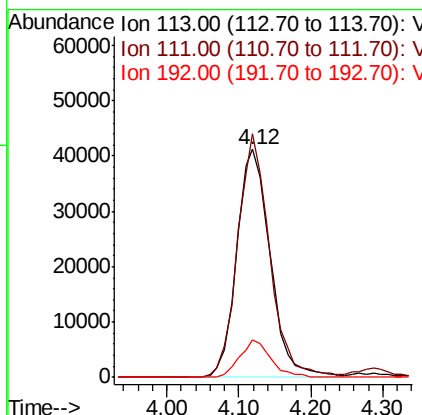
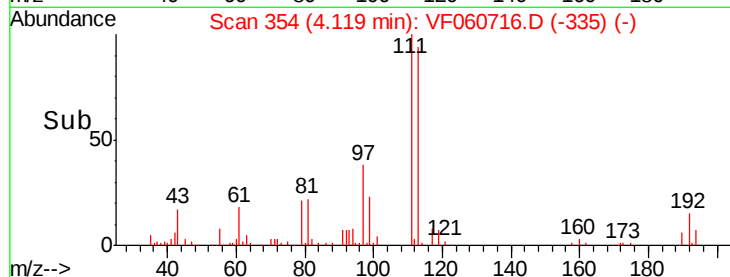
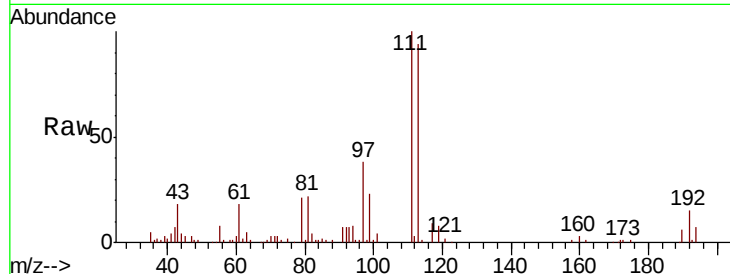
#35
 Dibromofluoromethane
 Concen: 49.351 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	106.7	87.1	130.7	
192	16.3	13.8	20.6	

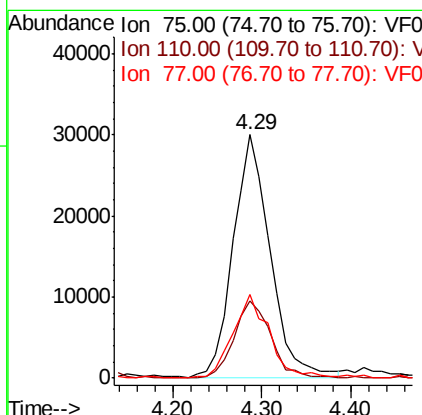
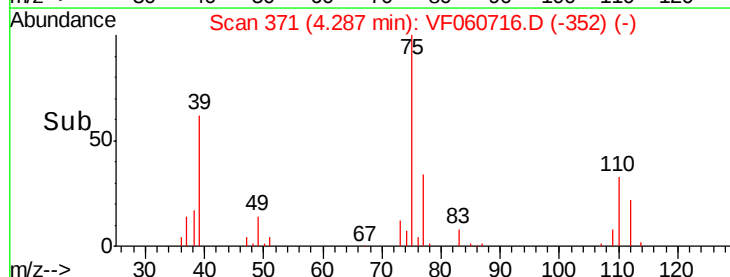
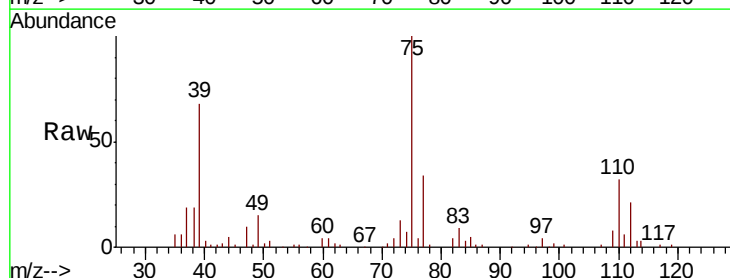
Manual Integrations
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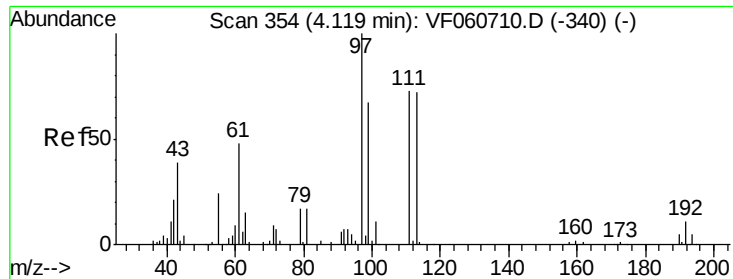
sam
 11/14/2018 9:33:03 AM



#36
 1,1-Dichloropropene
 Concen: 20.855 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	31.8	15.6	46.8	
77	34.1	25.0	37.6	





#37

Ethyl Acetate

Concen: 21.188 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

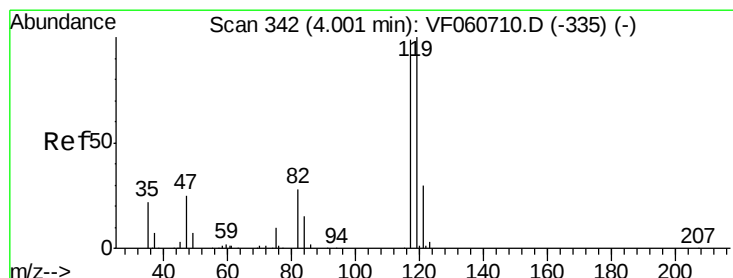
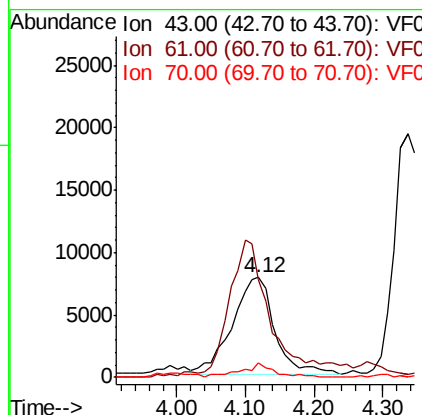
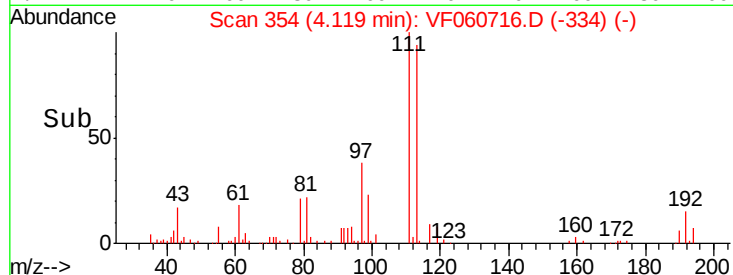
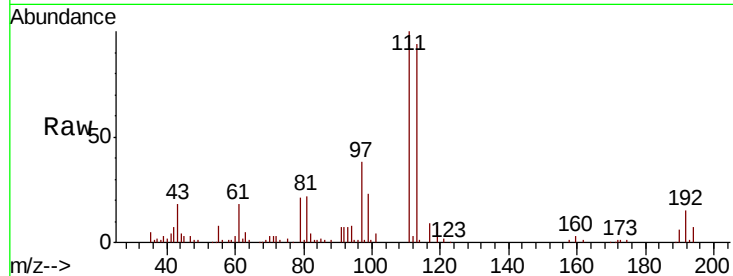
ClientSampleId :

VF1113SBS01

Tot Ion:	43	Resp:	32982
Ion	Ratio	Lower	Upper
43	100		
61	97.1	98.5	147.7#
70	14.9	7.4	11.0#

Manual Integrations
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sam
11/14/2018 9:33:03 AM



#38

Carbon Tetrachloride

Concen: 20.671 ug/l

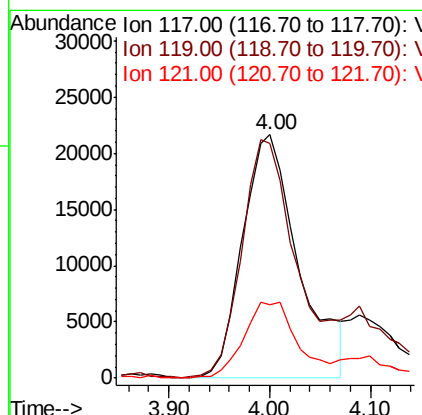
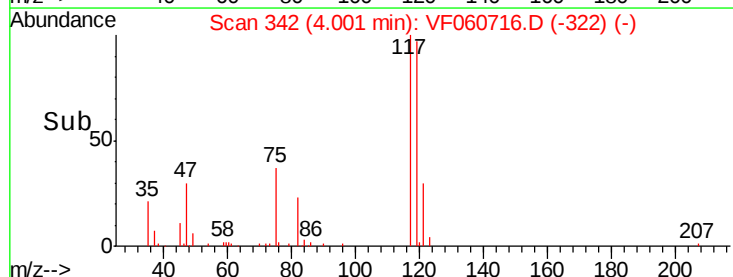
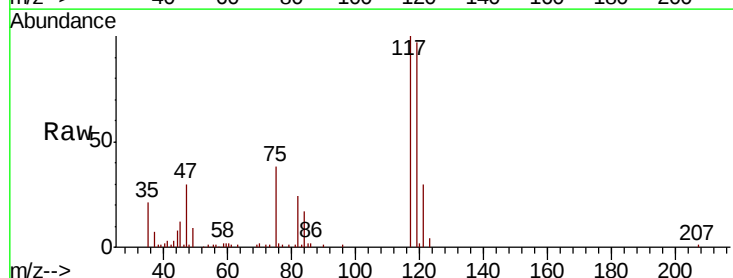
RT: 4.00 min Scan# 342

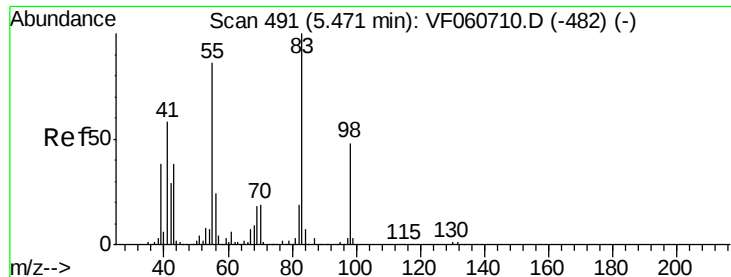
Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	117	Resp:	83978
Ion	Ratio	Lower	Upper
117	100		
119	96.6	80.7	121.1
121	29.9	24.3	36.5





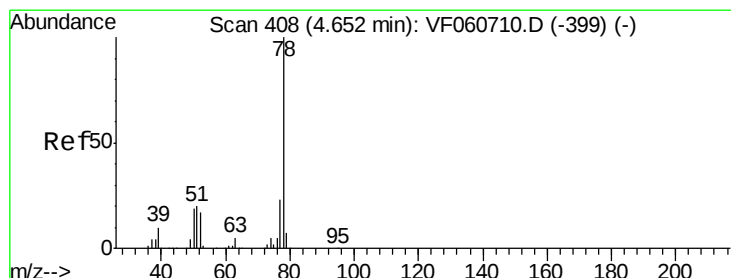
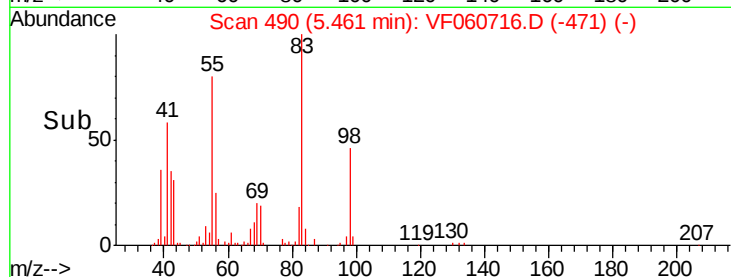
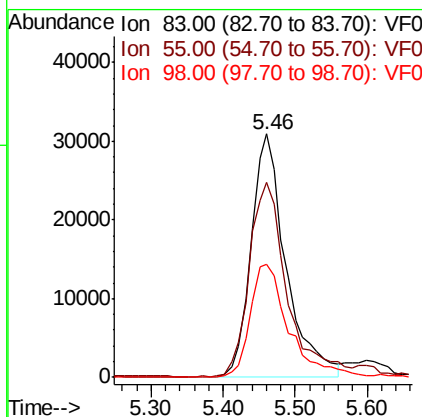
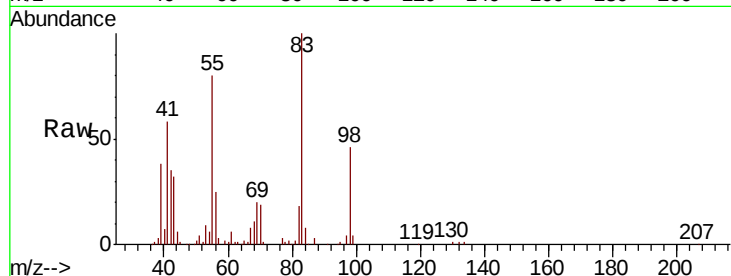
#39
Methvlcvclohexane
Concen: 21.447 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.2	69.0	103.4
98	46.2	38.5	57.7

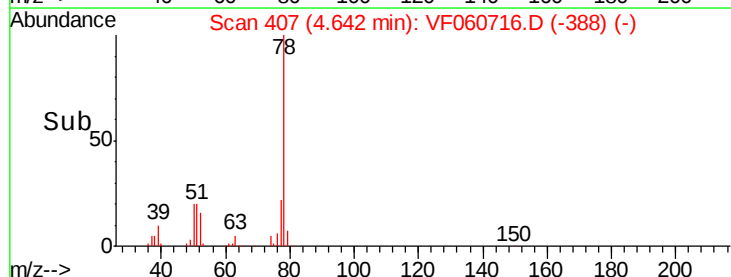
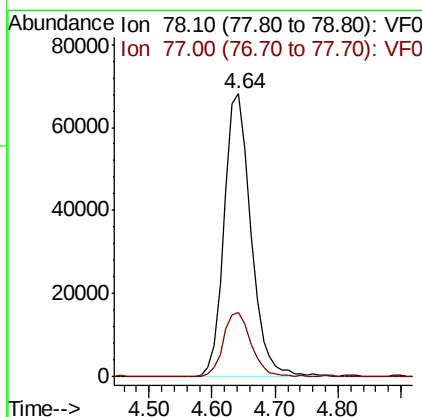
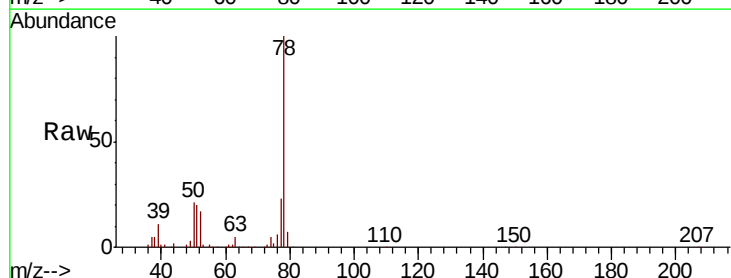
Manual Integrations
APPROVED

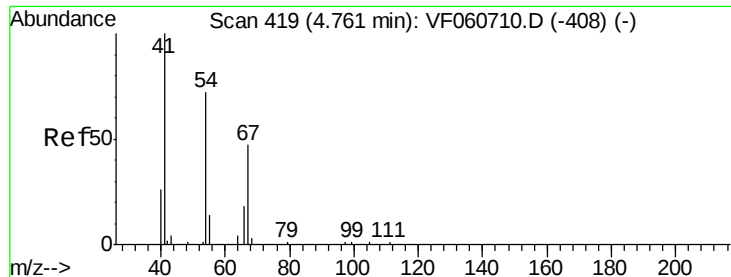
Sam
11/14/2018 9:33:03 AM



#40
Benzene
Concen: 21.671 ug/l
RT: 4.64 min Scan# 407
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.6	28.0





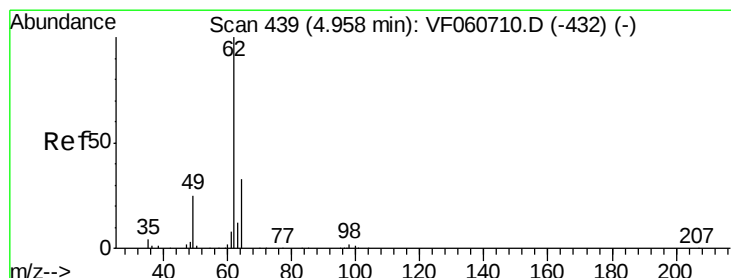
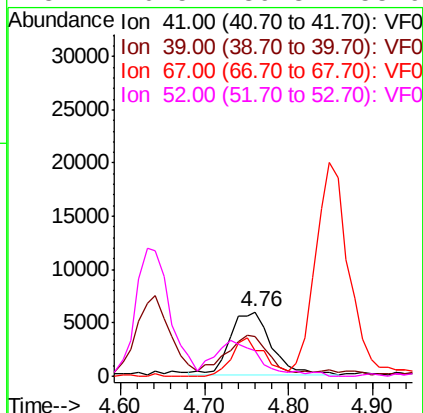
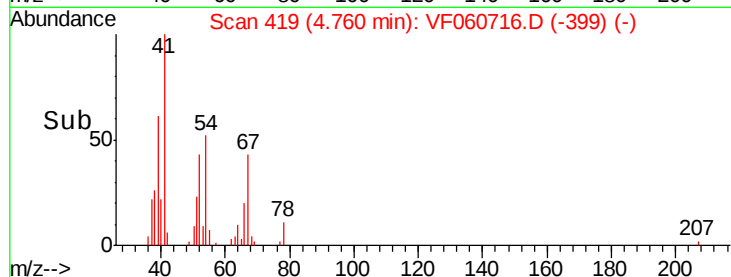
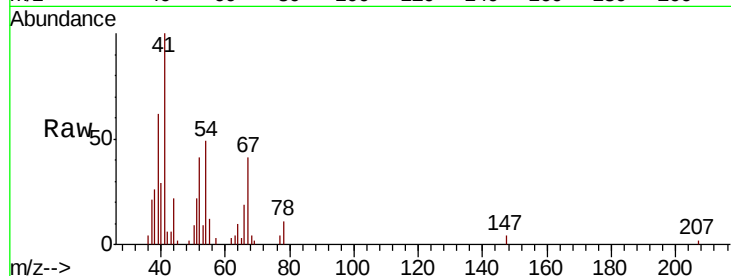
#41
Methacrylonitrile
Concen: 21.549 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.00 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.7	47.1	70.7
67	40.9	37.1	55.7
52	40.5	39.3	58.9

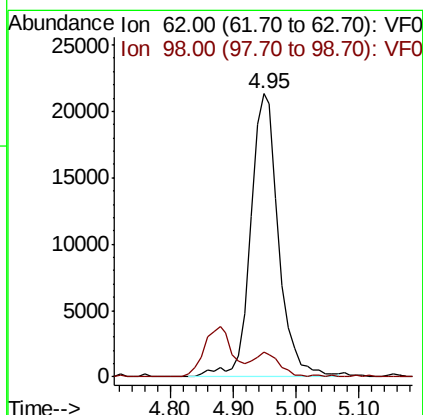
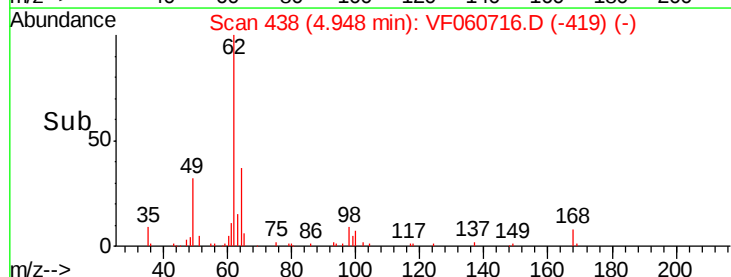
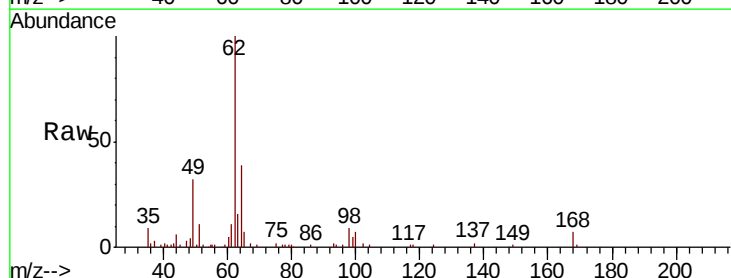
Manual Integrations
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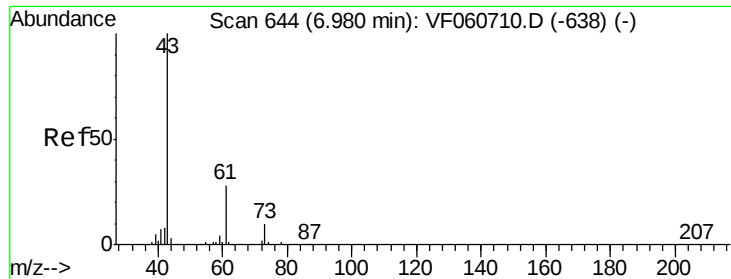
sam
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#42
1,2-Dichloroethane
Concen: 20.522 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	16.6





#43

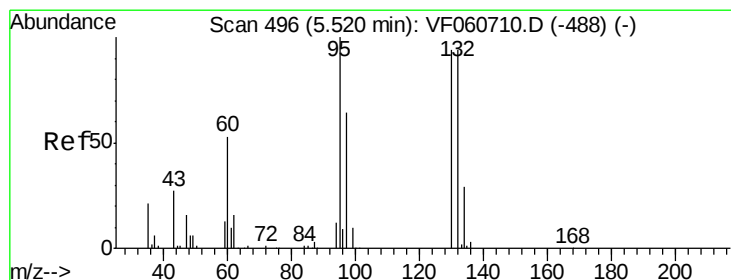
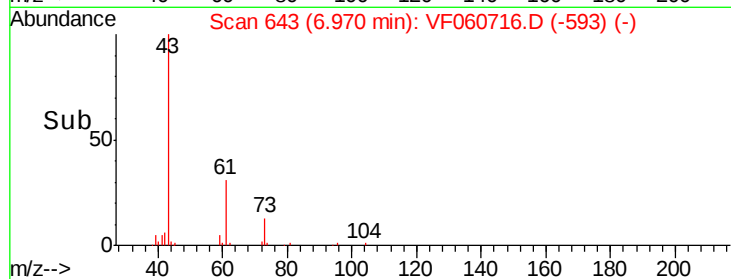
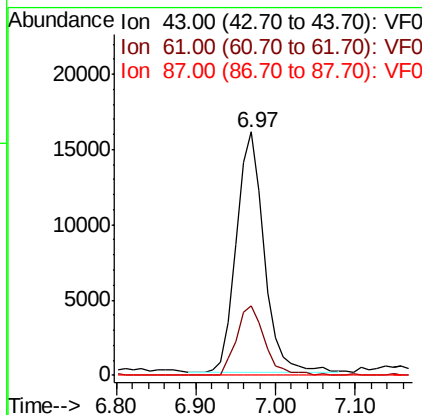
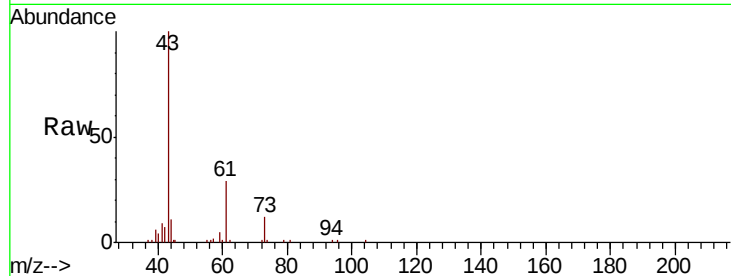
Isopropyl Acetate
 Concen: 18.921 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	22.2	33.4
87	0.0	0.4	0.6

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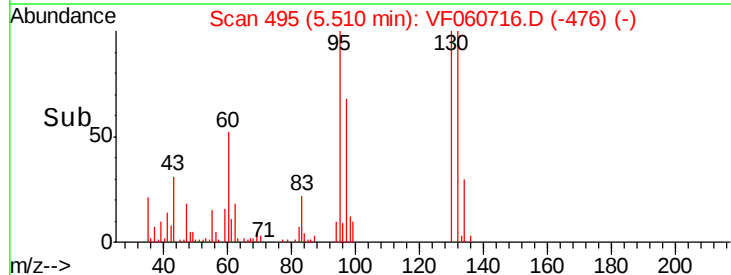
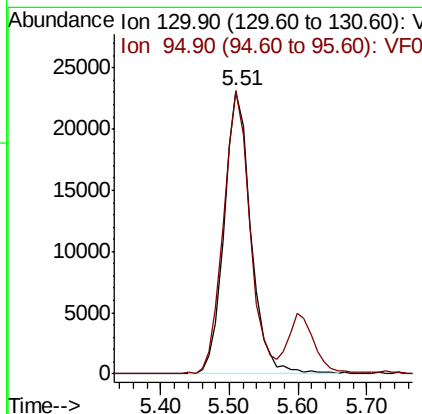
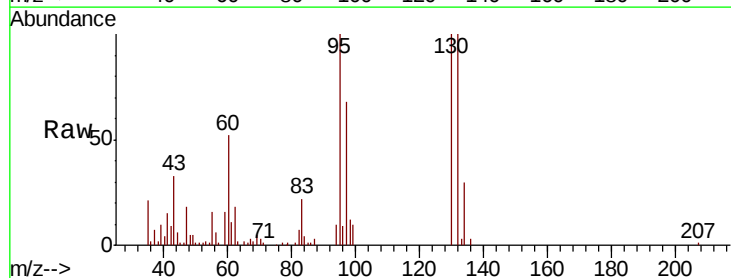
sam
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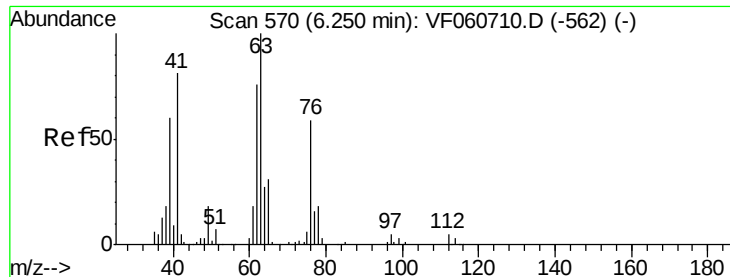


#44

Trichloroethene
 Concen: 21.083 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	212.6





#45

1,2-Dichloropropane

Concen: 20.362 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 63 Resp: 49453

Ion Ratio Lower Upper

63 100

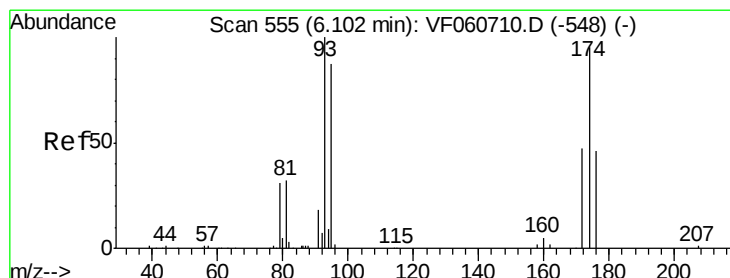
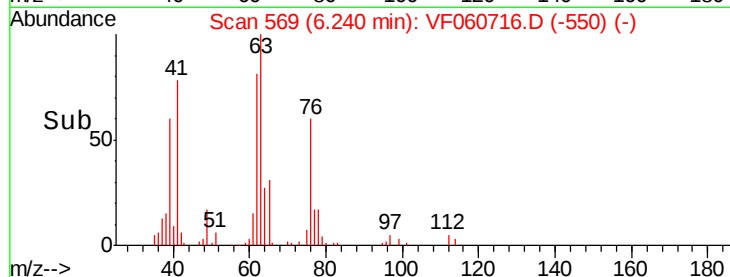
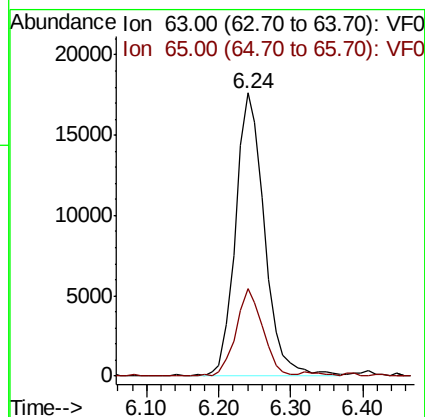
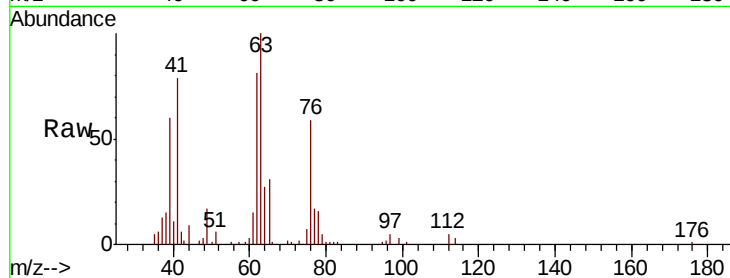
65 30.7 24.6 36.8

Manual Integrations

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#46

Dibromomethane

Concen: 20.796 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

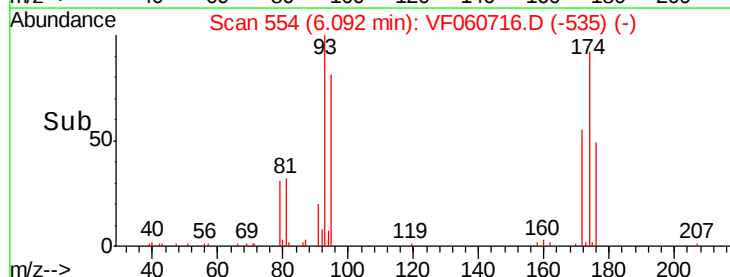
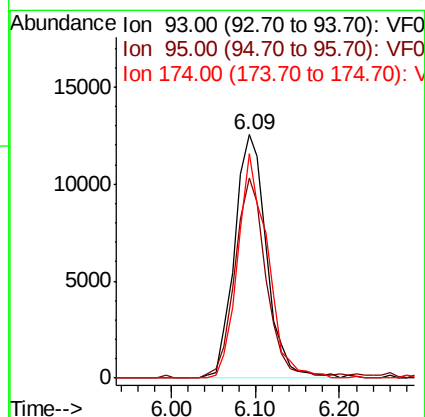
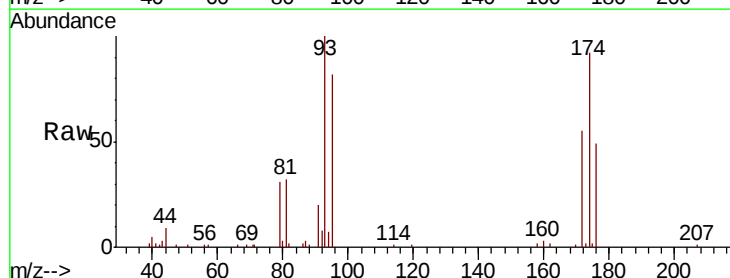
Tgt Ion: 93 Resp: 33340

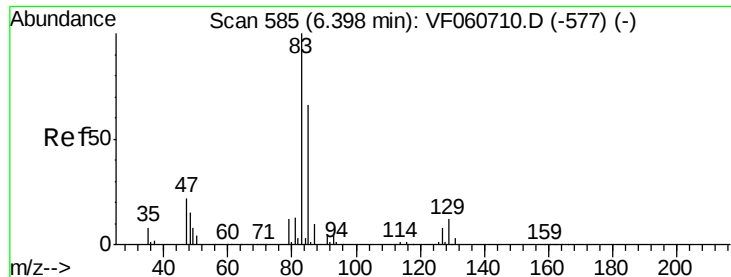
Ion Ratio Lower Upper

93 100

95 82.2 69.5 104.3

174 94.1 76.2 114.2





#47

Bromodichloromethane

Concen: 20.378 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

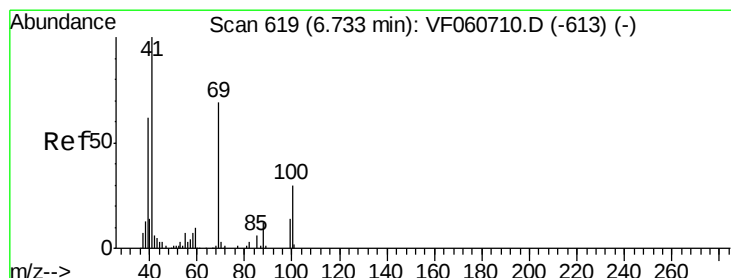
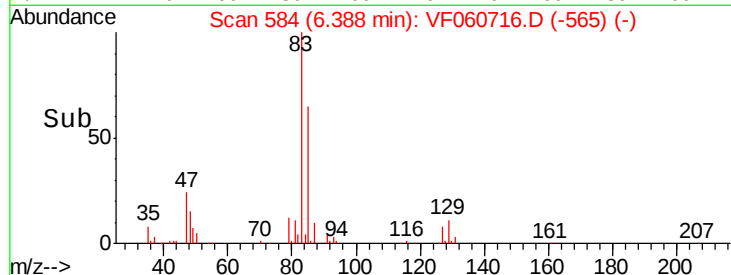
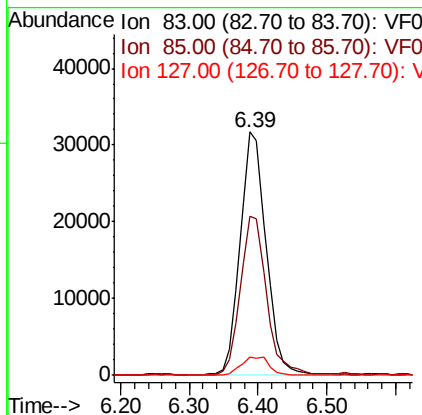
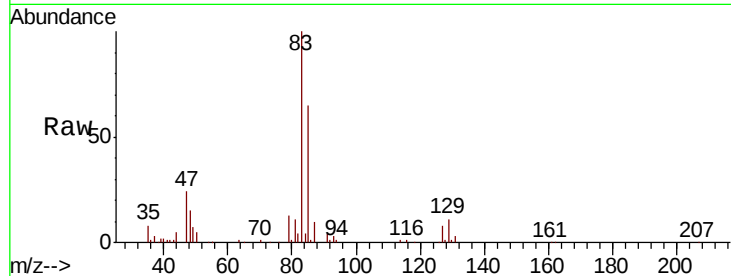
ClientSampleId :

VF1113SBS01

Tot Ion:	83	Resp:	83429
Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.4	78.6
127	7.7	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.908 ug/l

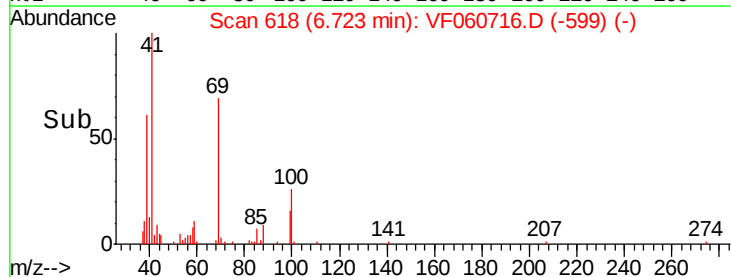
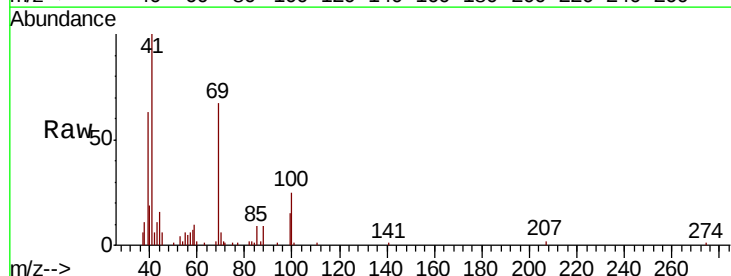
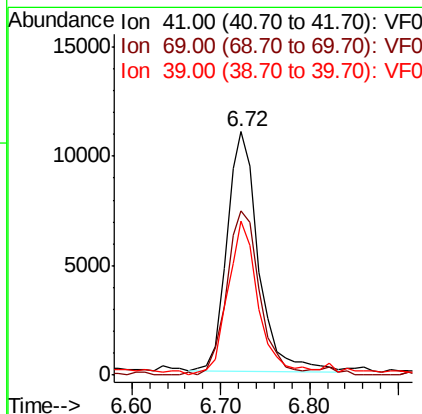
RT: 6.72 min Scan# 618

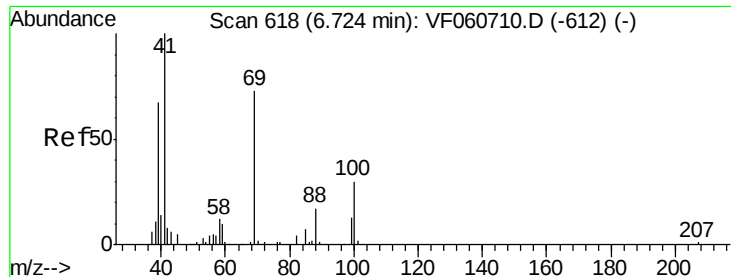
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	41	Resp:	27193
Ion	Ratio	Lower	Upper
41	100		
69	67.4	54.9	82.3
39	63.2	49.6	74.4





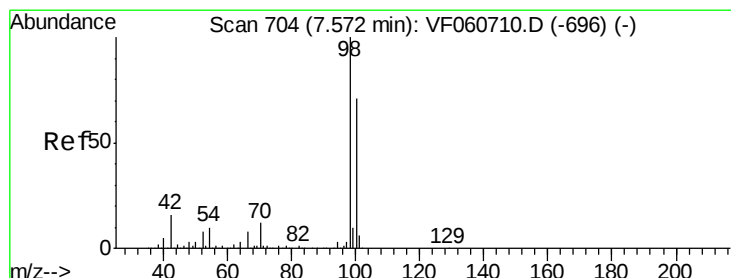
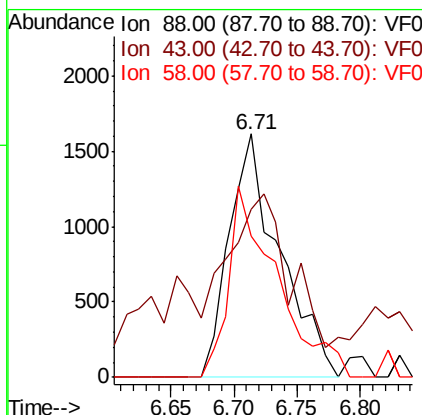
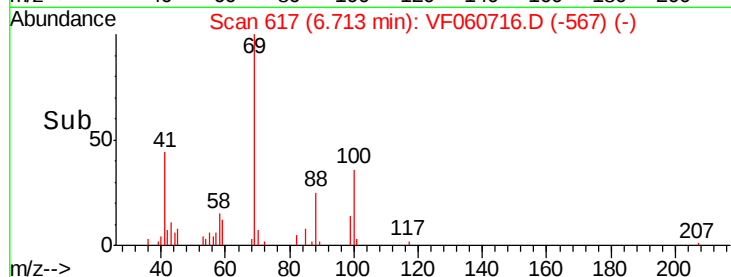
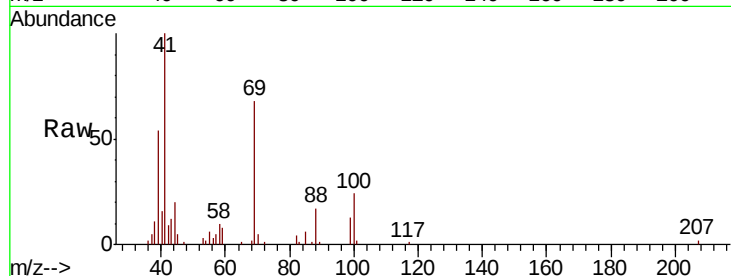
#49
1,4-Dioxane
Concen: 349.755 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	69.0	44.6	66.8#
58	58.0	54.5	81.7

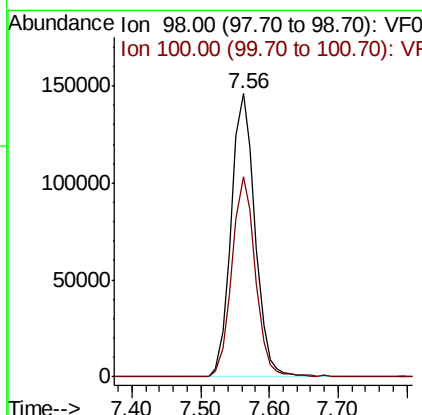
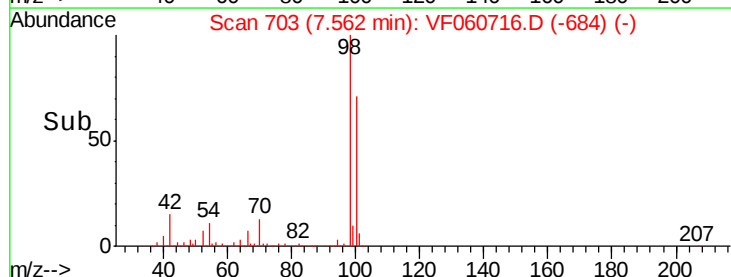
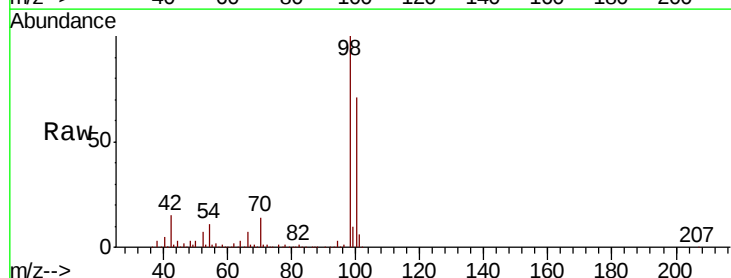
Manual Integrations
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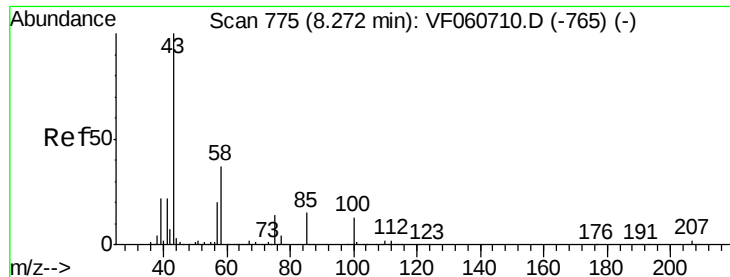
sam
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#50
Toluene-d8
Concen: 50.608 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.7	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 100.614 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 43 Resp: 150187

Ion Ratio Lower Upper

43 100

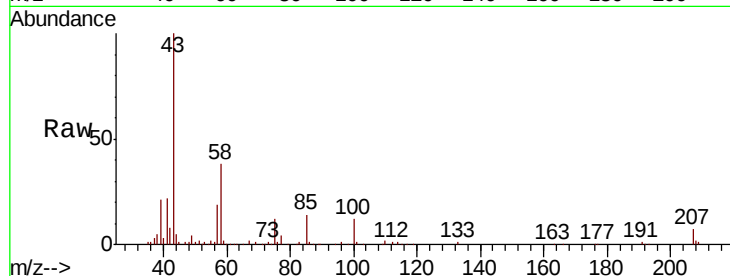
58 37.6 29.2 43.8

Manual Integrations

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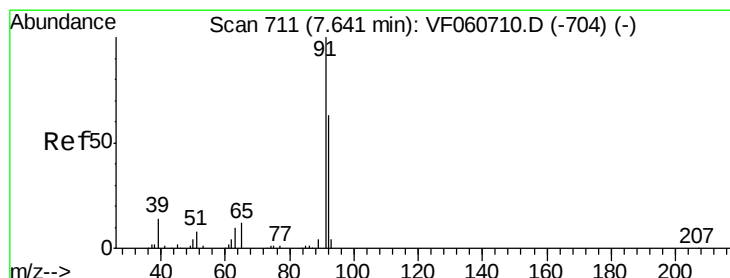
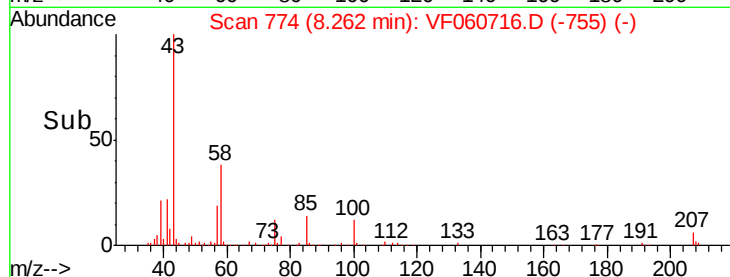
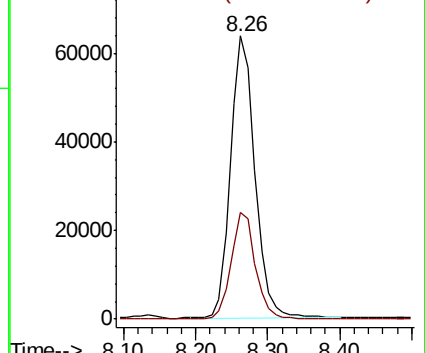
sam

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.826 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060716.D

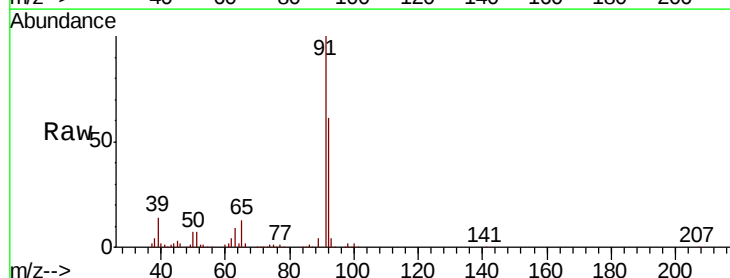
Acq: 13 Nov 2018 19:08

Tgt Ion: 92 Resp: 123999

Ion Ratio Lower Upper

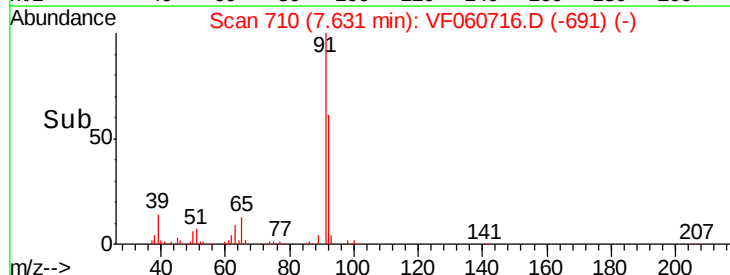
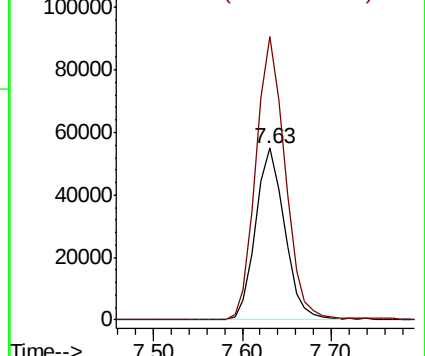
92 100

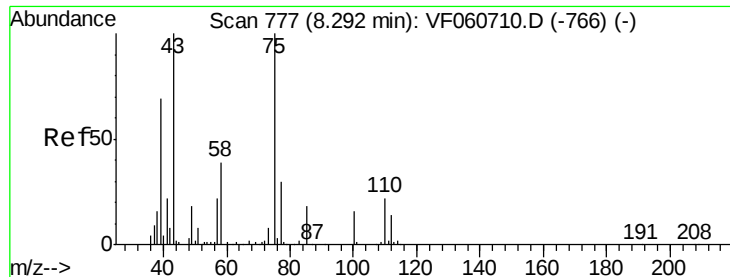
91 164.8 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.760 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 75 Resp: 71353

Ion Ratio Lower Upper

75 100

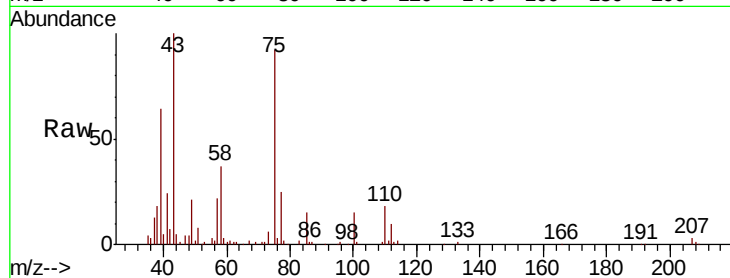
77 27.3 24.6 36.8

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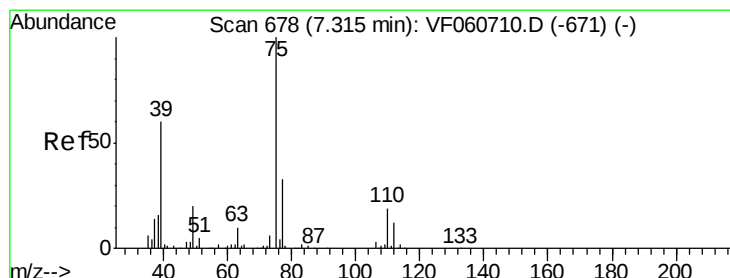
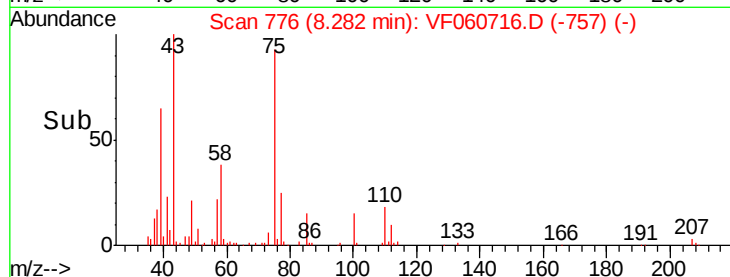
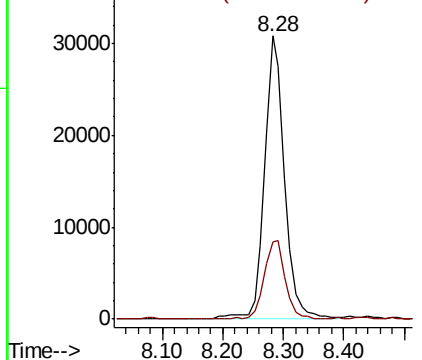
sam

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 19.277 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

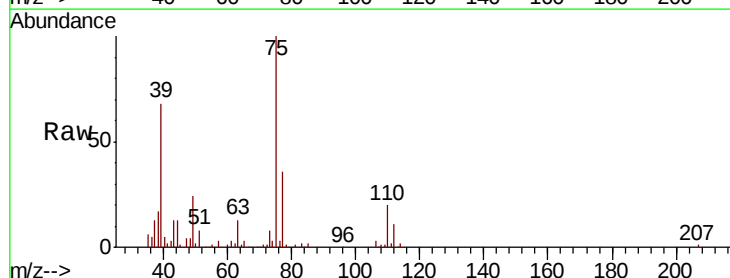
Tgt Ion: 75 Resp: 82108

Ion Ratio Lower Upper

75 100

77 35.5 26.5 39.7

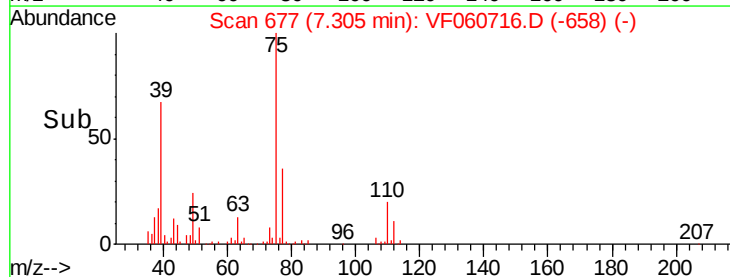
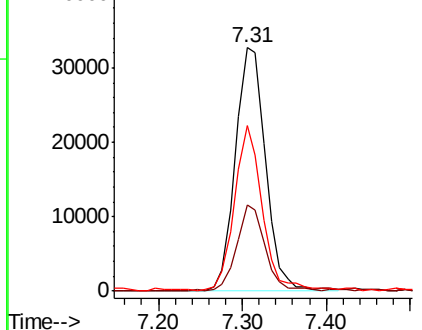
39 68.2 48.5 72.7

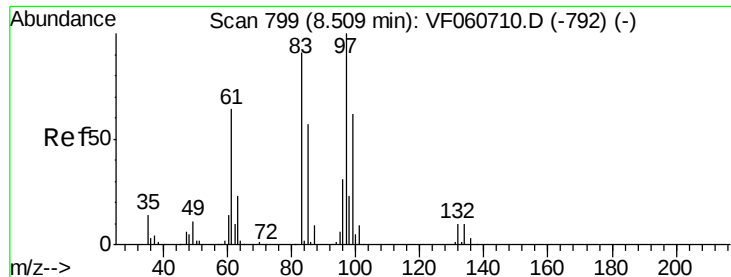


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





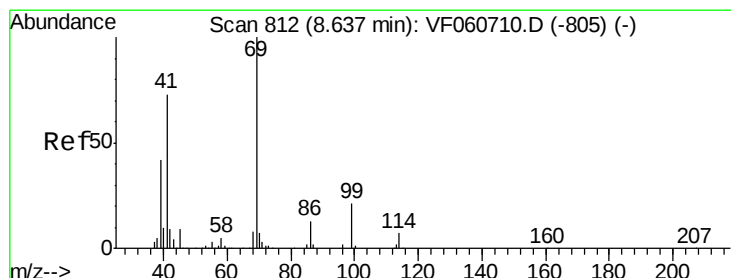
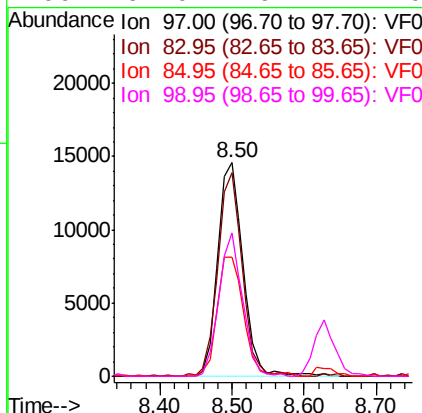
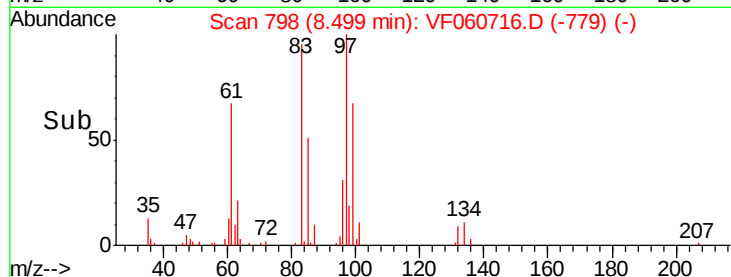
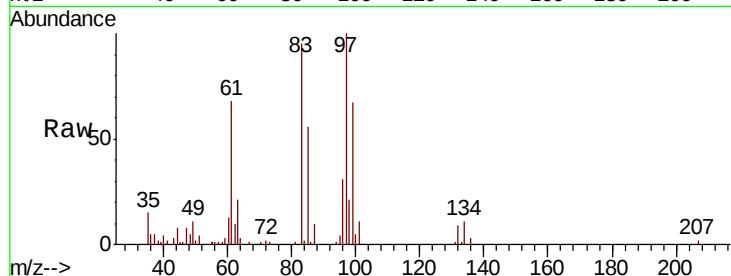
#55
 1,1,2-Trichloroethane
 Concen: 19.675 ug/l
 RT: 8.50 min Scan# 798
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion:	97	Resp:	35159
Ion	Ratio	Lower	Upper
97	100		
83	95.3	72.8	109.2
85	55.5	45.8	68.6
99	67.0	49.4	74.0

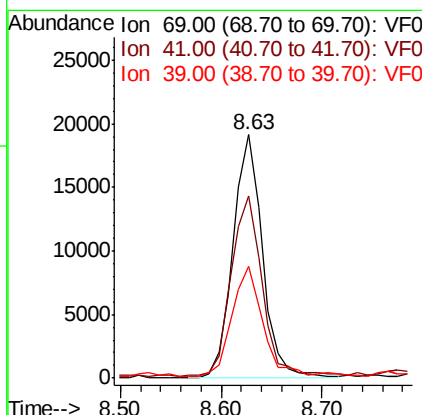
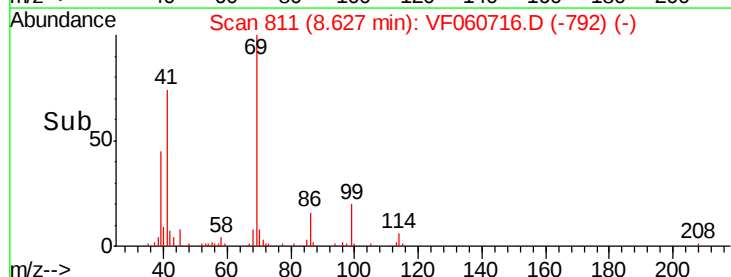
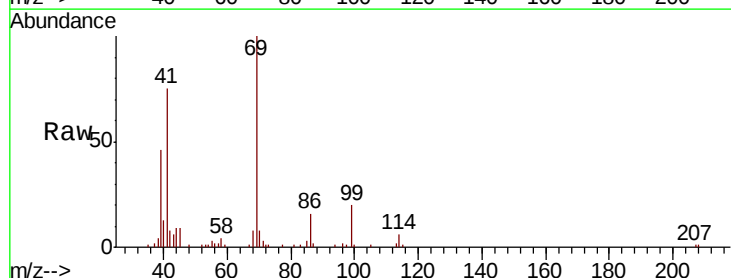
Manual Integrations
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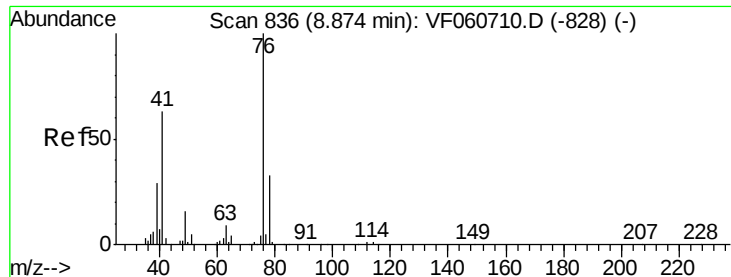
sam
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#56
 Ethyl methacrylate
 Concen: 19.161 ug/l
 RT: 8.63 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion:	69	Resp:	38888
Ion	Ratio	Lower	Upper
69	100		
41	74.9	59.0	88.6
39	46.1	34.0	51.0





#57

1,3-Dichloropropane

Concen: 20.670 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 76 Resp: 64017

Ion Ratio Lower Upper

76 100

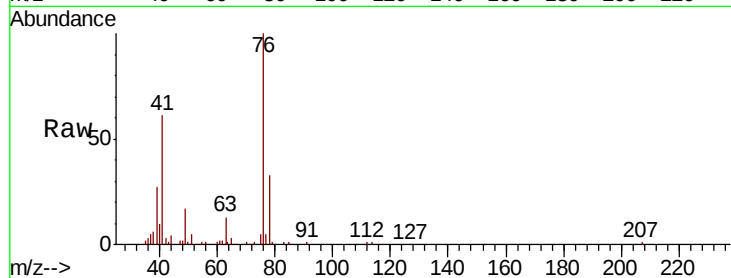
78 33.3 26.6 39.8

Manual Integrations

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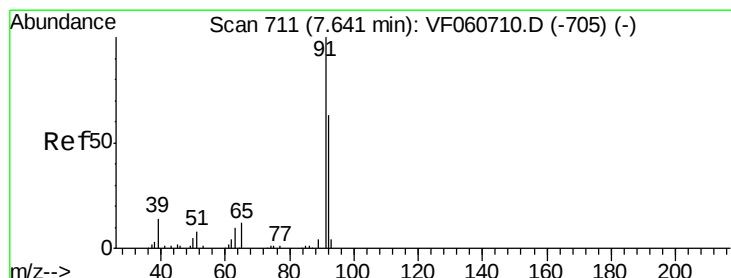
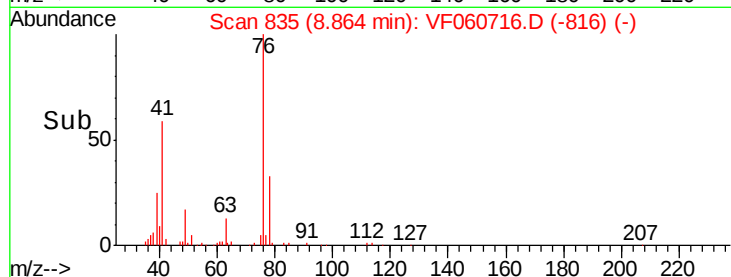
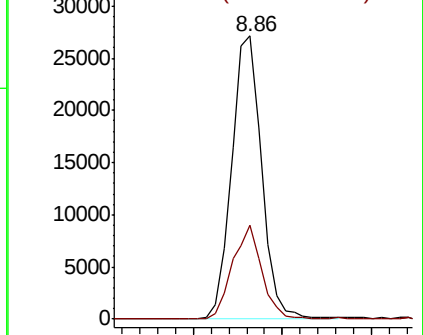
sam

11/14/2018 9:33:03 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 107.041 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF060716.D

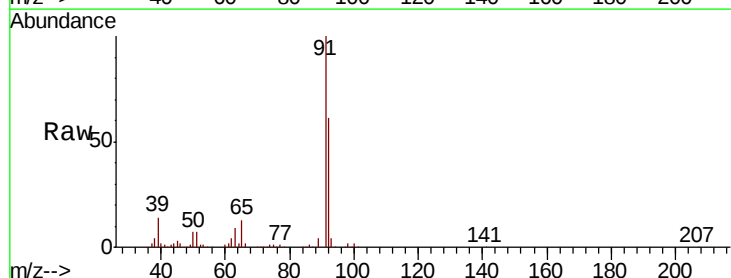
Acq: 13 Nov 2018 19:08

Tgt Ion: 63 Resp: 19845

Ion Ratio Lower Upper

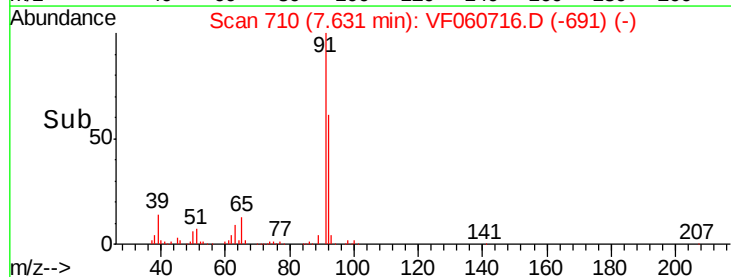
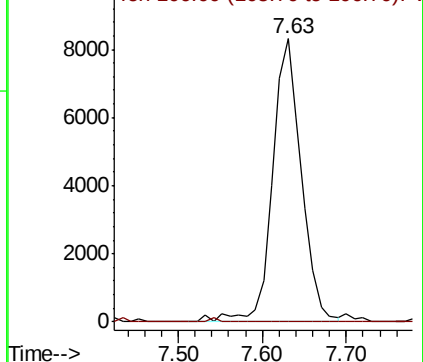
63 100

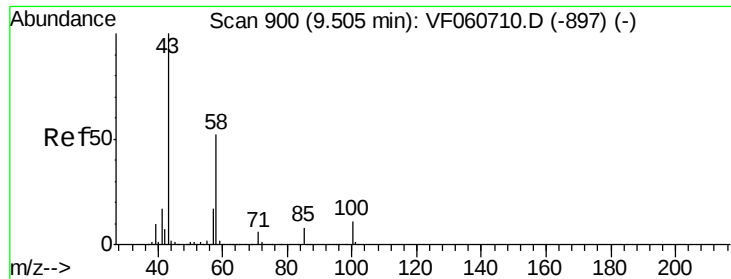
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





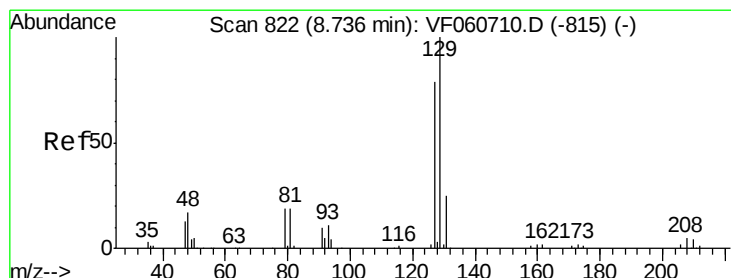
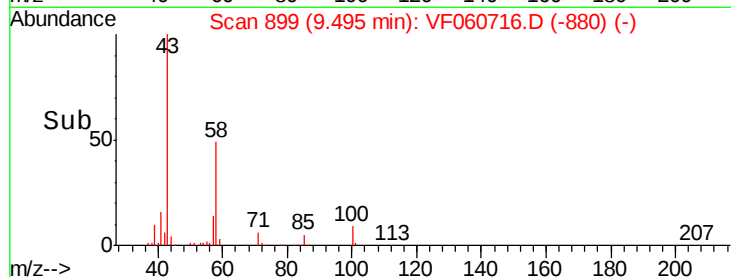
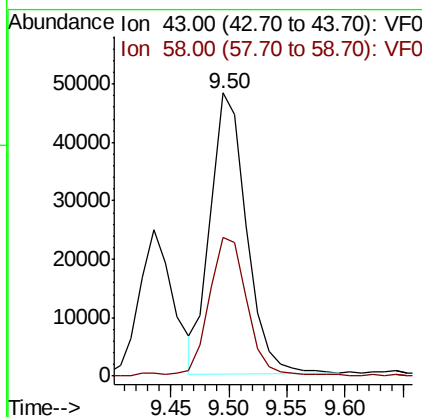
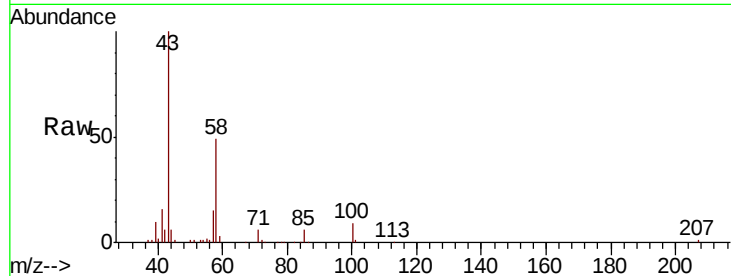
#59
2-Hexanone
Concen: 98.751 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion: 43 Resp: 103593
Ion Ratio Lower Upper
43 100
58 49.0 24.9 74.7

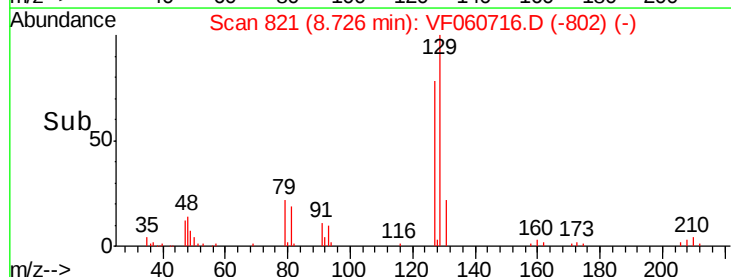
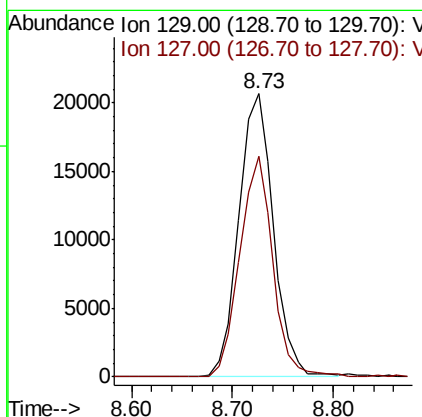
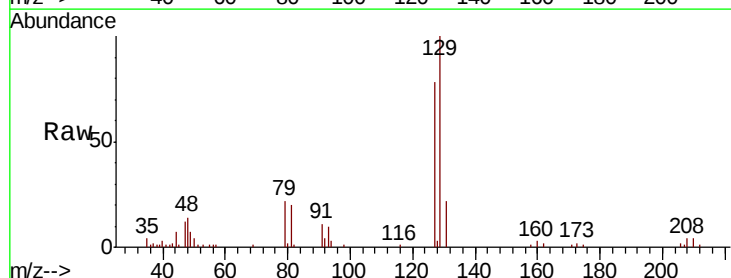
Manual Integrations
APPROVED

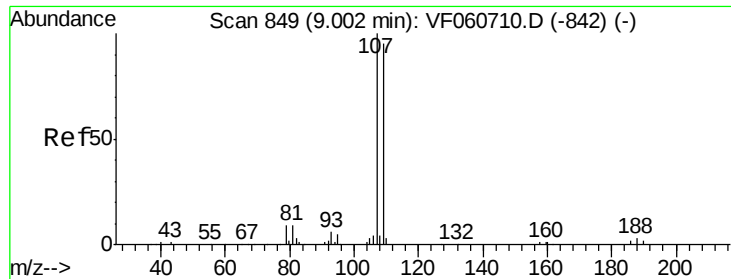
sam
11/14/2018 9:33:03 AM



#60
Dibromochloromethane
Concen: 19.428 ug/l
RT: 8.73 min Scan# 821
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion: 129 Resp: 49480
Ion Ratio Lower Upper
129 100
127 77.8 39.7 119.1





#61

1,2-Dibromoethane

Concen: 21.011 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion:107 Resp: 39489

Ion Ratio Lower Upper

107 100

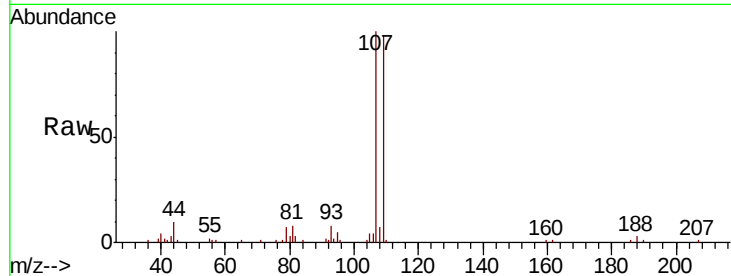
109 98.2 75.9 113.9

Manual Integrations

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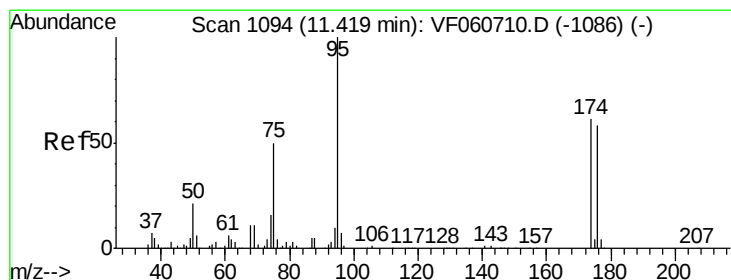
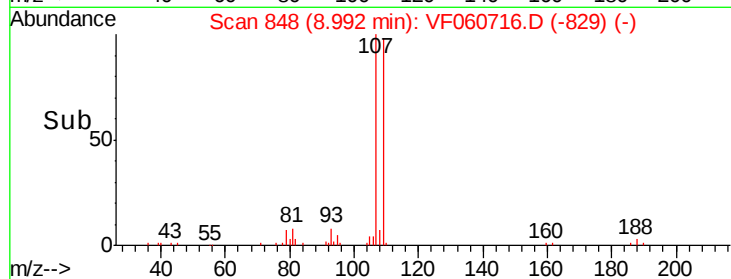
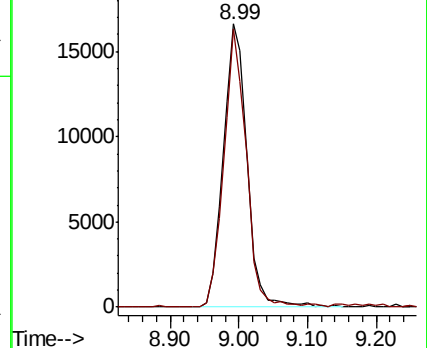
sam

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.625 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

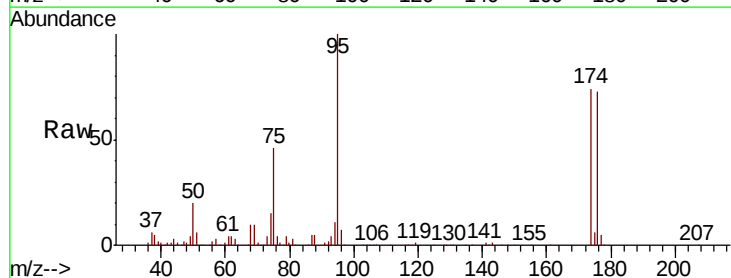
Tgt Ion: 95 Resp: 171271

Ion Ratio Lower Upper

95 100

174 73.5 0.0 121.6

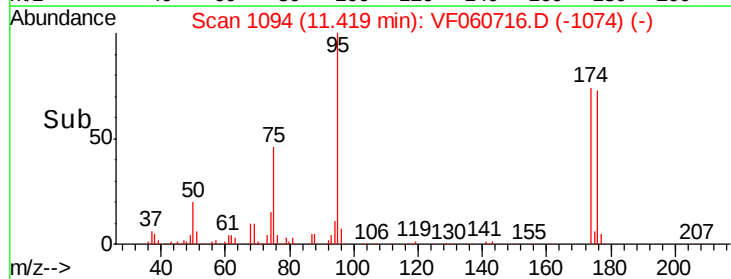
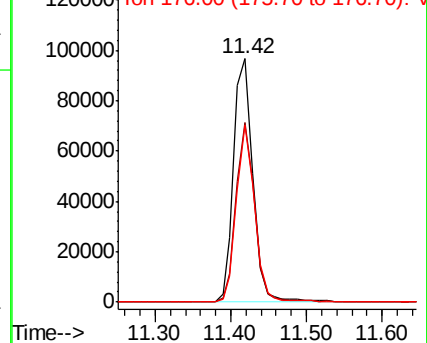
176 72.6 0.0 115.2

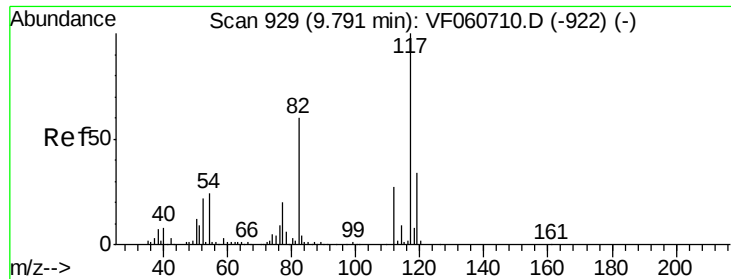


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





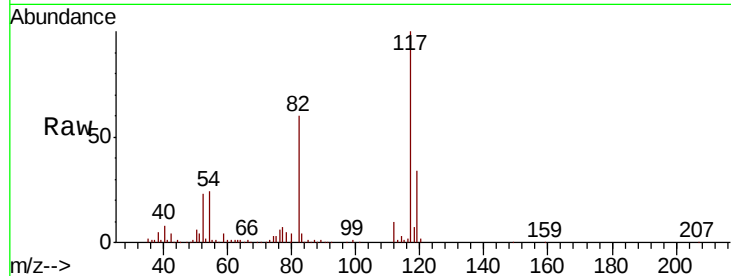
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	59.8	47.9	71.9	
119	34.1	26.8	40.2	

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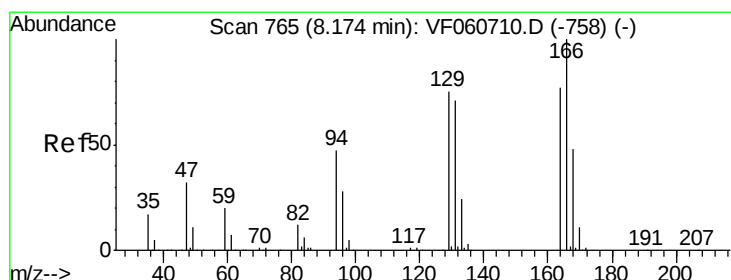
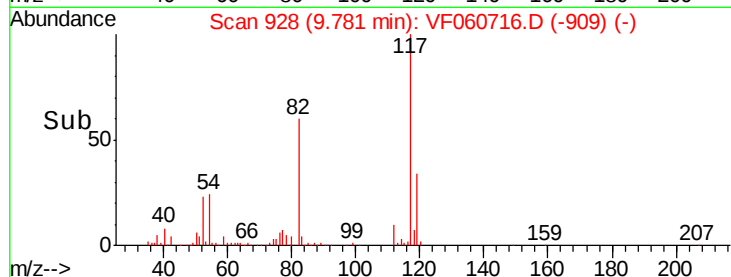
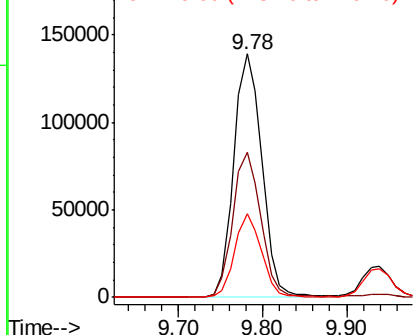


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 21.473 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	110.0	103.5	155.3	
129	89.7	77.4	116.2	
131	89.7	73.5	110.3	

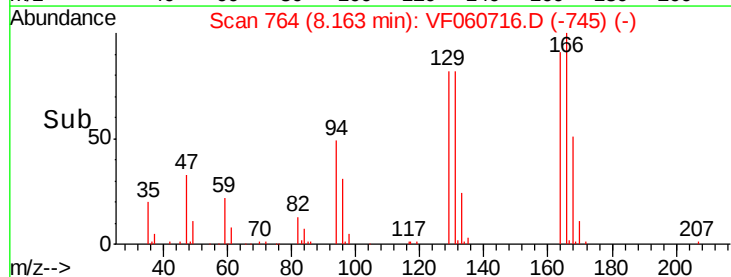
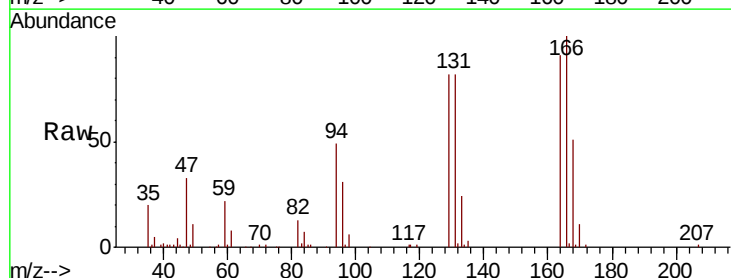
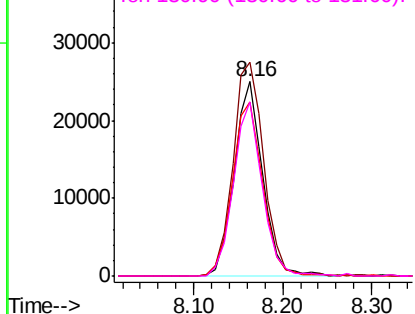
Abundance

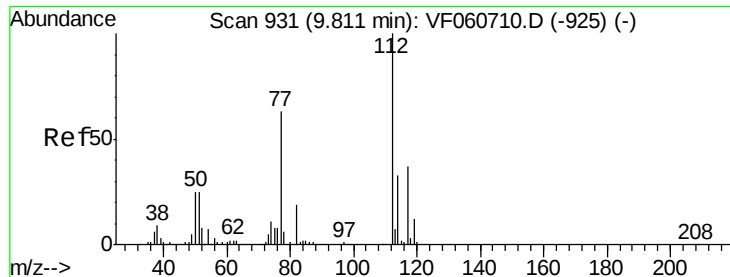
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 20.209 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion:112 Resp: 133121

Ion Ratio Lower Upper

112 100

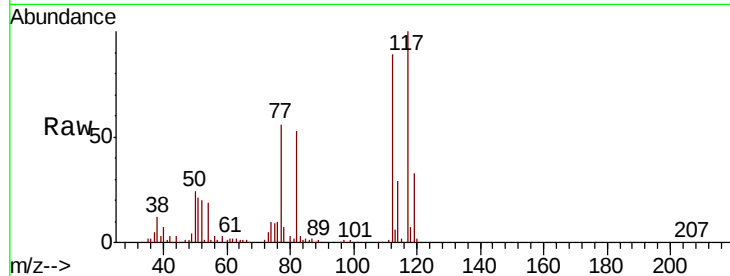
114 32.5 26.1 39.1

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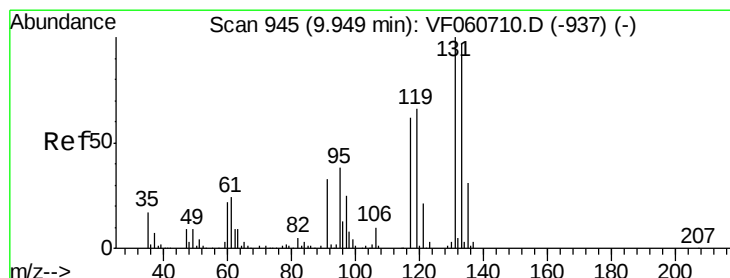
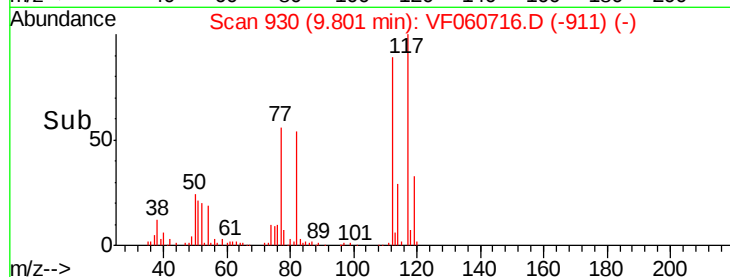
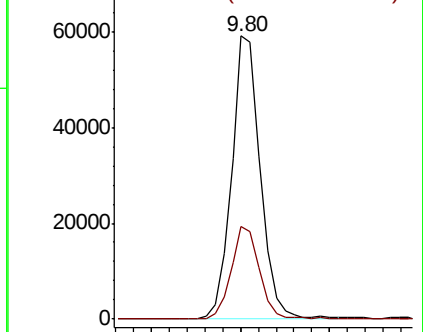
sam

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.689 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

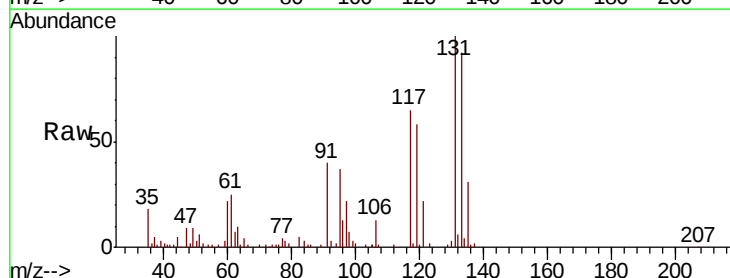
Tgt Ion:131 Resp: 59442

Ion Ratio Lower Upper

131 100

133 91.7 48.3 144.8

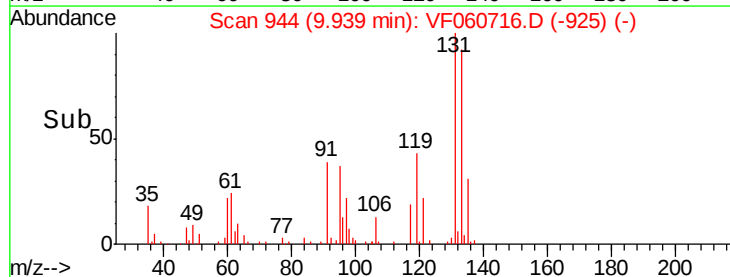
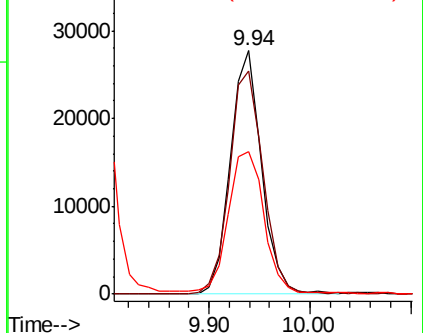
119 58.4 33.2 99.6

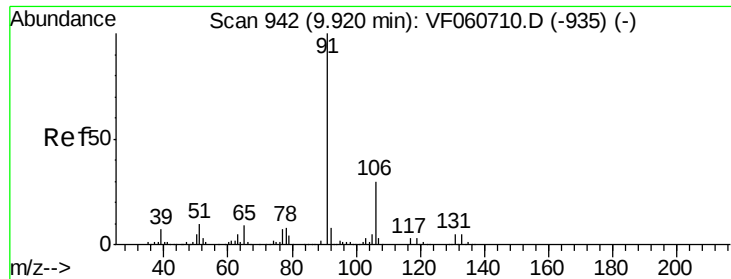


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 21.345 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 91 Resp: 265029

Ion Ratio Lower Upper

91 100

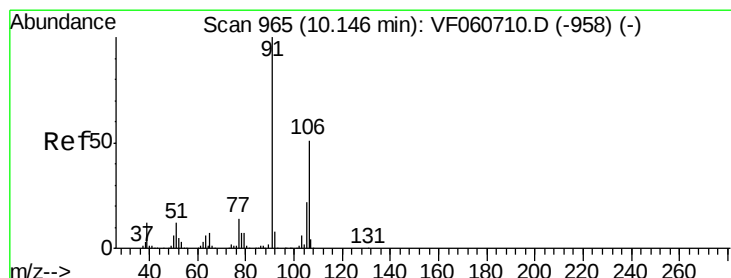
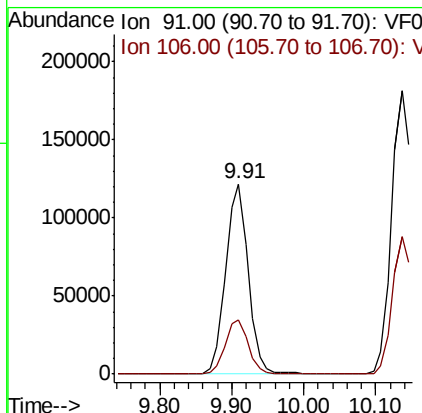
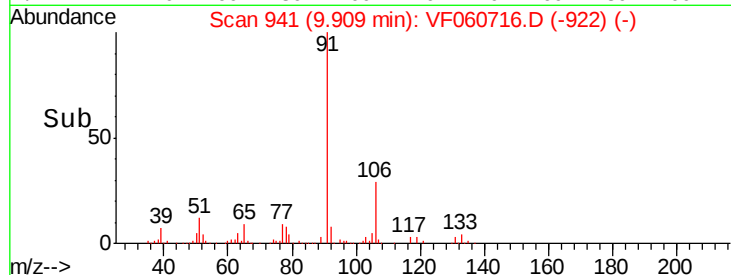
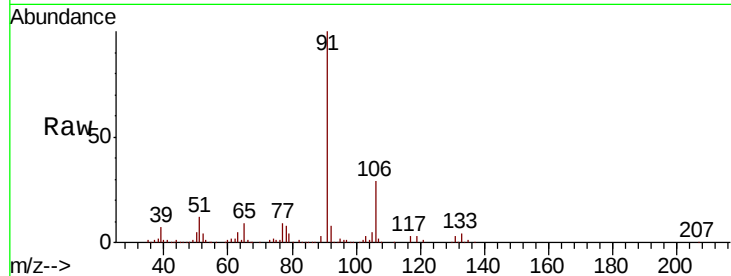
106 28.9 23.9 35.9

Manual Integrations

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#68

m/p-Xylenes

Concen: 42.357 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF060716.D

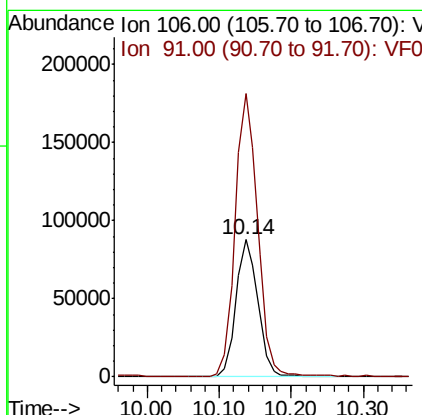
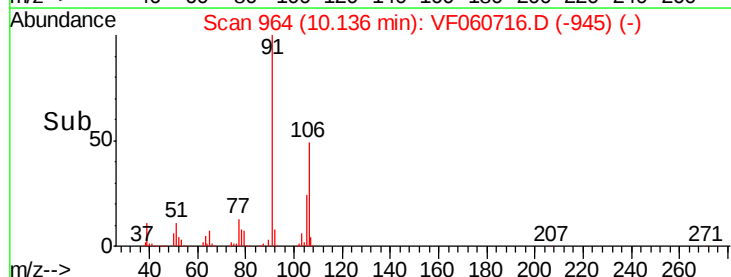
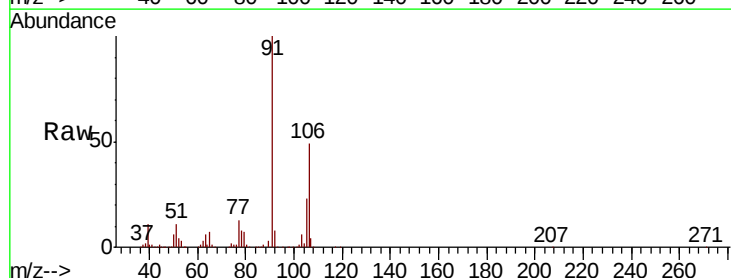
Acq: 13 Nov 2018 19:08

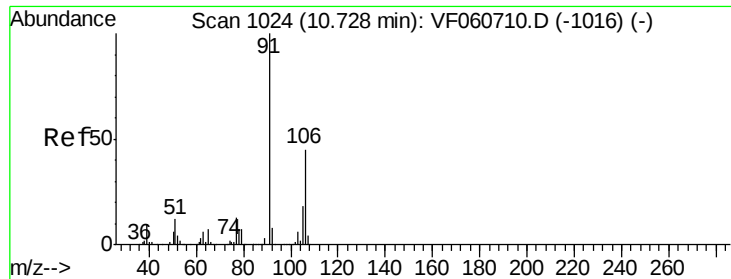
Tgt Ion: 106 Resp: 187950

Ion Ratio Lower Upper

106 100

91 206.1 158.2 237.2





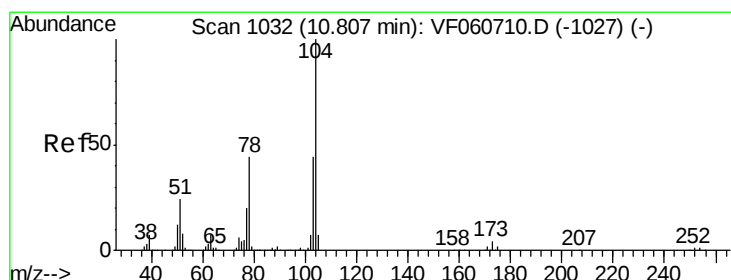
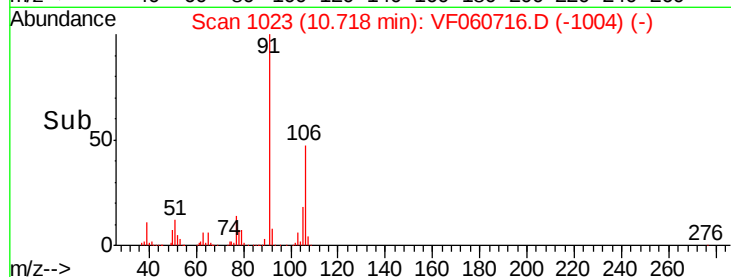
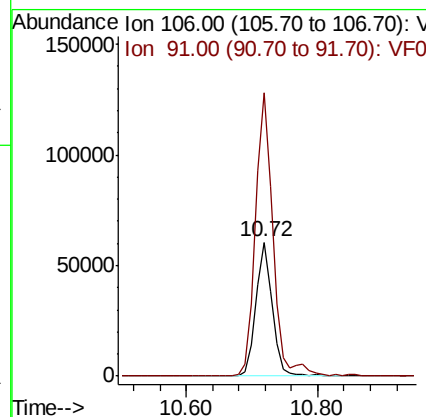
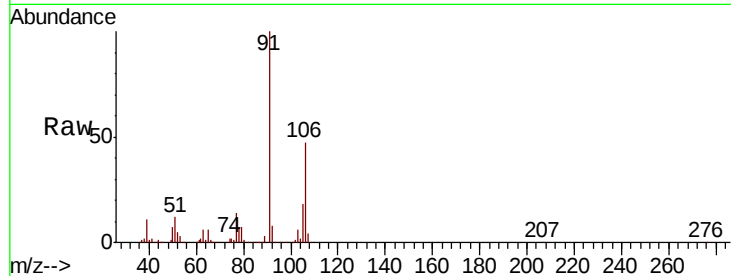
#69
o-Xylene
Concen: 21.276 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion:106 Resp: 106142
Ion Ratio Lower Upper
106 100
91 210.9 110.3 330.9

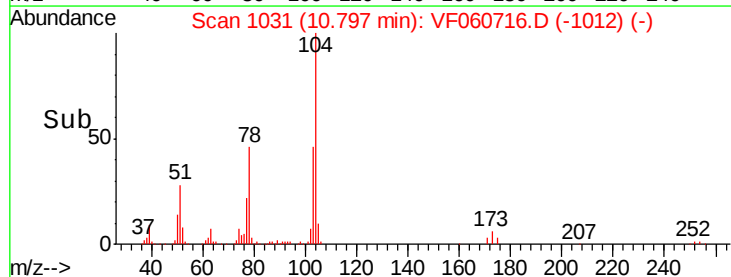
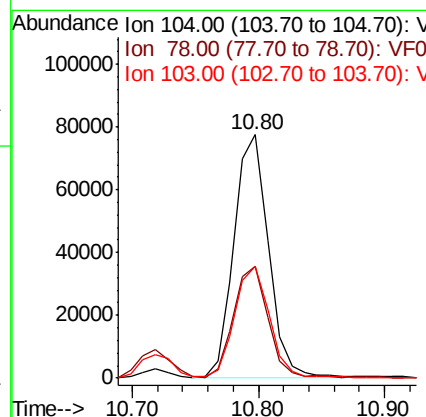
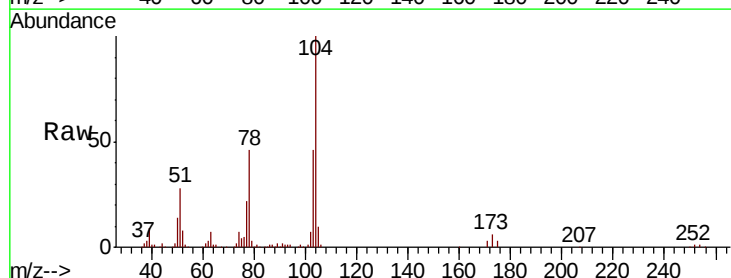
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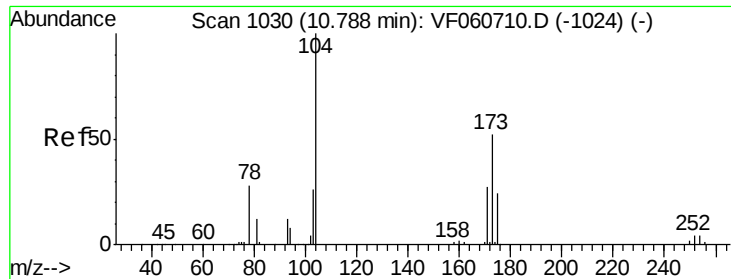
sam
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#70
Styrene
Concen: 21.468 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion:104 Resp: 145347
Ion Ratio Lower Upper
104 100
78 45.7 35.4 53.2
103 45.9 35.8 53.6





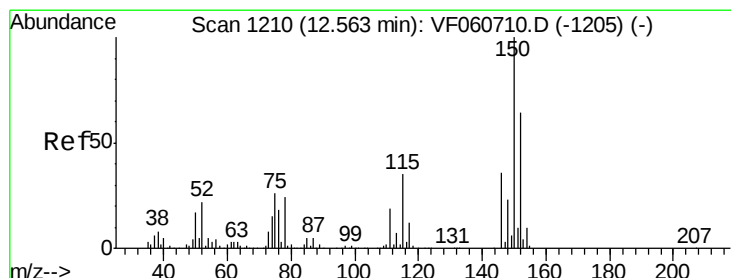
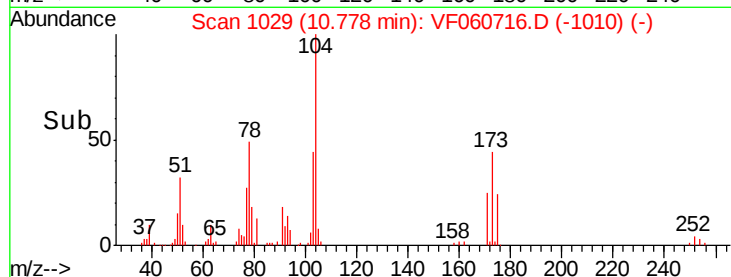
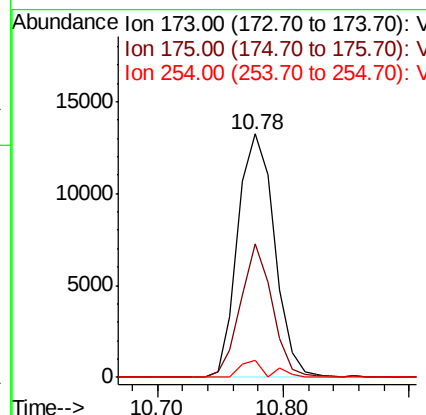
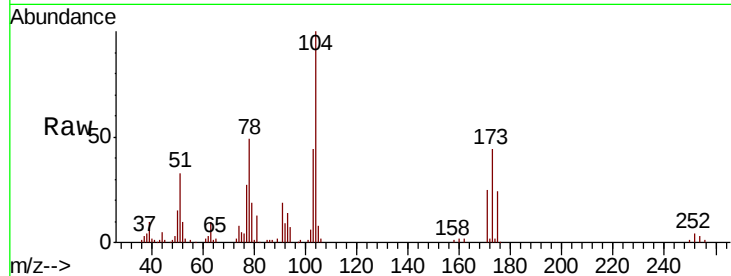
#71
Bromoform
Concen: 20.617 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	55.0	23.4	70.0
254	7.2	5.8	8.8

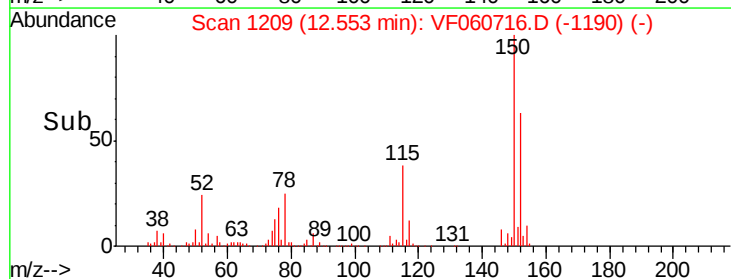
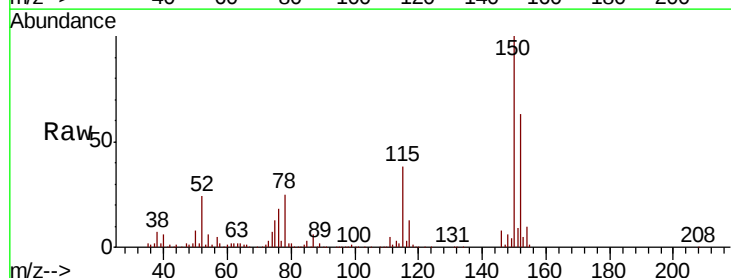
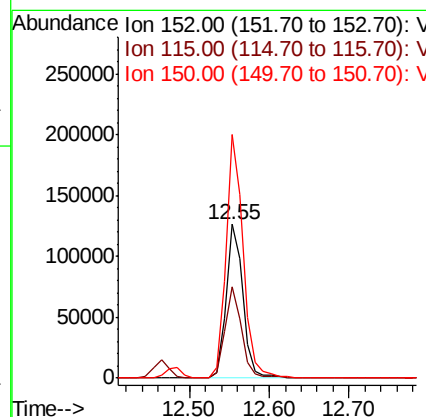
Manual Integrations
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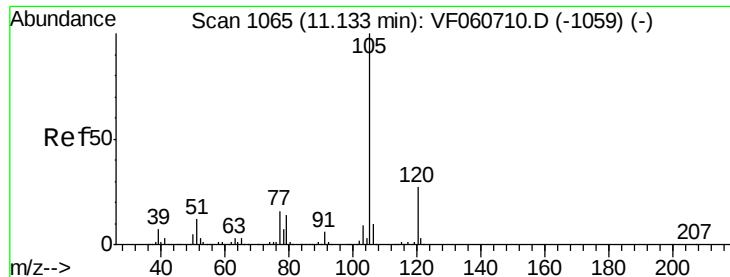
sam
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	27.9	83.7
150	158.7	0.0	316.4





#73

Isopropylbenzene

Concen: 20.020 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion:105 Resp: 305692

Ion Ratio Lower Upper

105 100

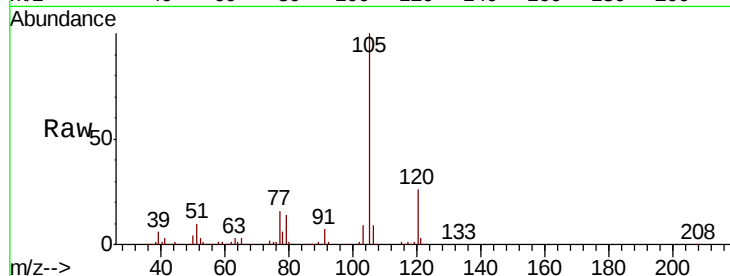
120 25.9 13.4 40.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

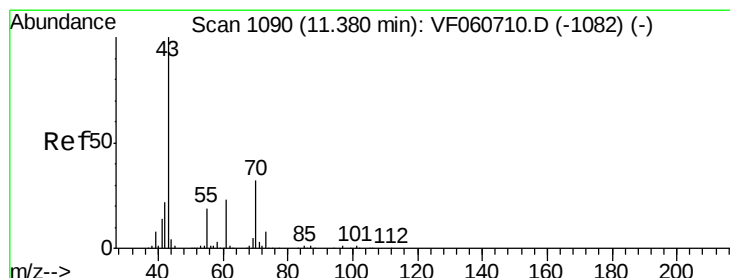
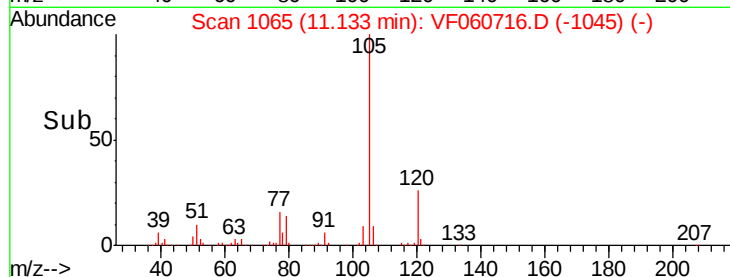
100000

50000

0

11.00 11.10 11.20

Time-->



#74

N-ethyl acetate

Concen: 19.597 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion: 43 Resp: 68120

Ion Ratio Lower Upper

43 100

70 36.6 25.5 38.3

55 20.3 14.9 22.3

61 23.1 18.6 27.8

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

30000

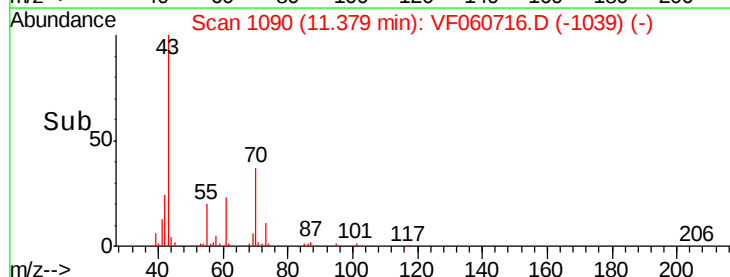
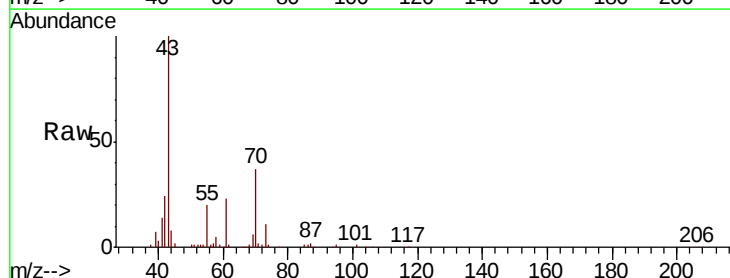
20000

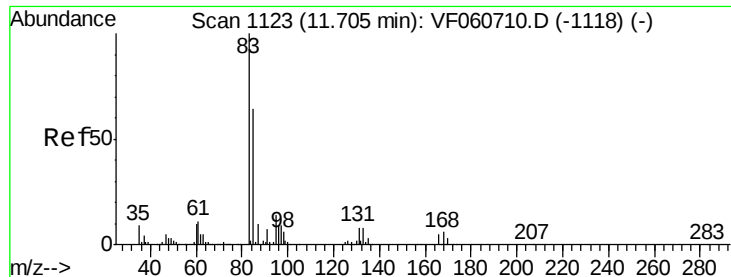
10000

0

11.20 11.30 11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.161 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

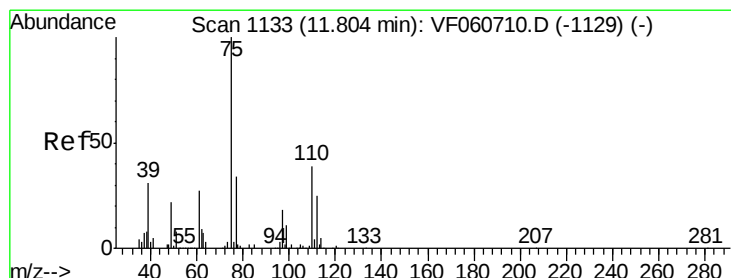
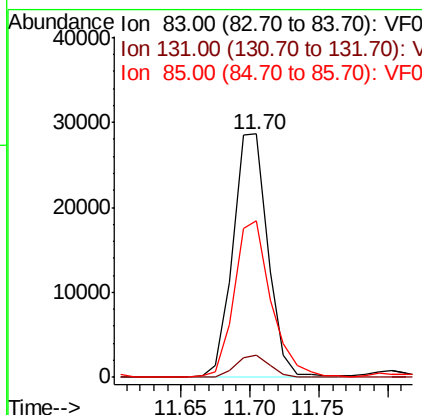
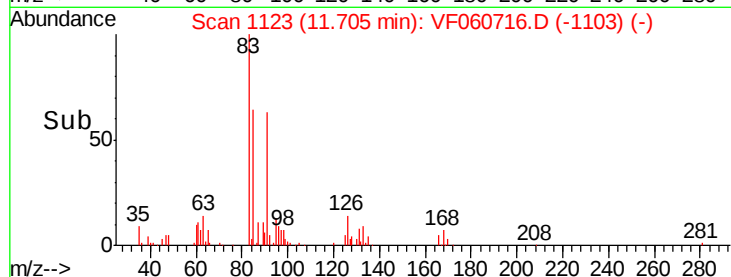
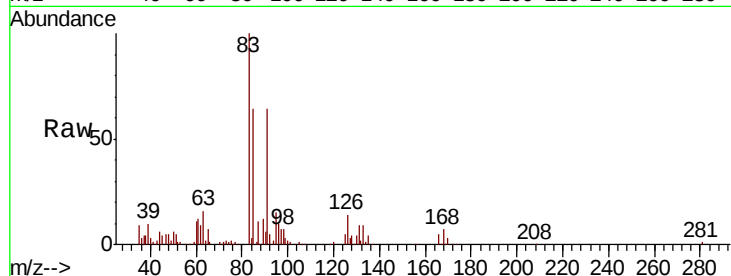
ClientSampleId :

VF1113SBS01

Tot Ion:	83	Resp:	50896
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.2	12.4
85	64.2	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.187 ug/l

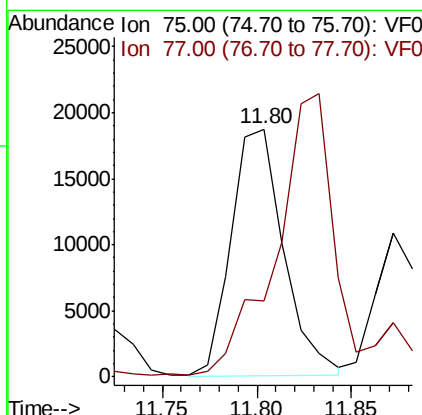
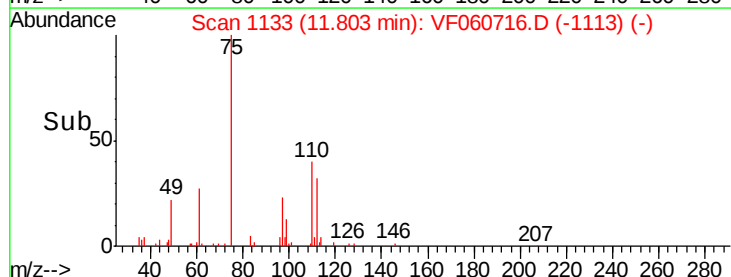
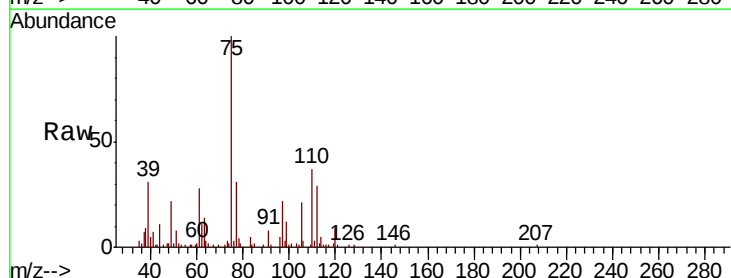
RT: 11.80 min Scan# 1133

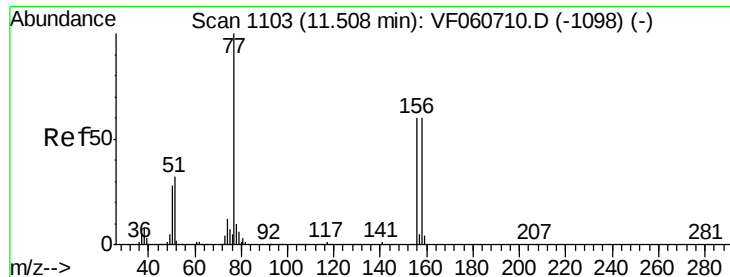
Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	75	Resp:	35974
Ion Ratio	Lower	Upper	
75	100		
77	30.7	17.0	51.0





#77

Bromobenzene

Concen: 20.492 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

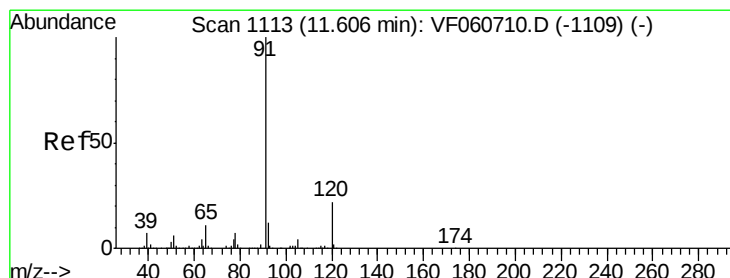
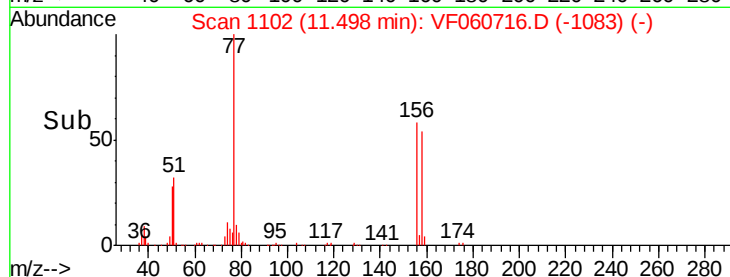
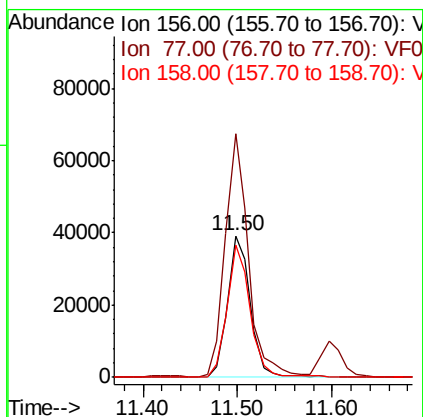
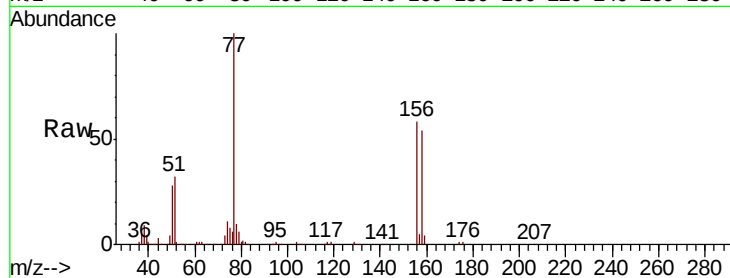
ClientSampleId :

VF1113SBS01

Tot Ion:	156	Resp:	65131
Ion	Ratio	Lower	Upper
156	100		
77	172.1	83.0	248.9
158	93.1	49.6	149.0

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#78

n-propylbenzene

Concen: 20.967 ug/l

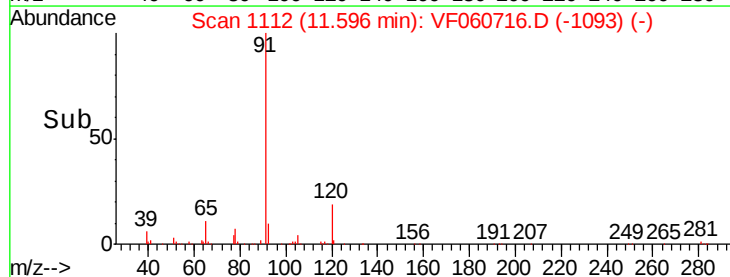
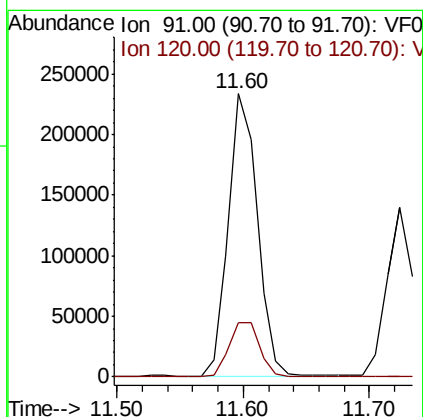
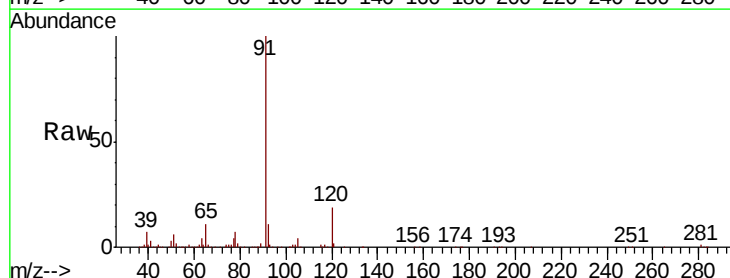
RT: 11.60 min Scan# 1112

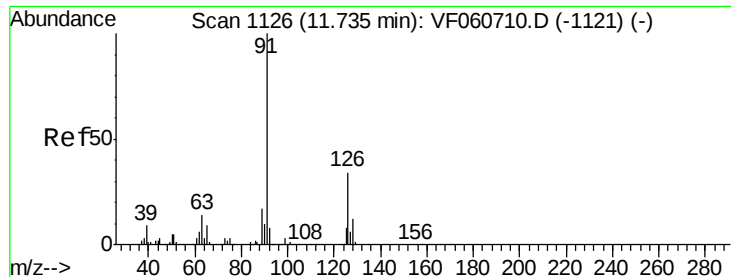
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	91	Resp:	373382
Ion	Ratio	Lower	Upper
91	100		
120	19.3	11.2	33.5





#79

2-Chlorotoluene

Concen: 20.048 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBS01

Tot Ion: 91 Resp: 207509

Ion Ratio Lower Upper

91 100

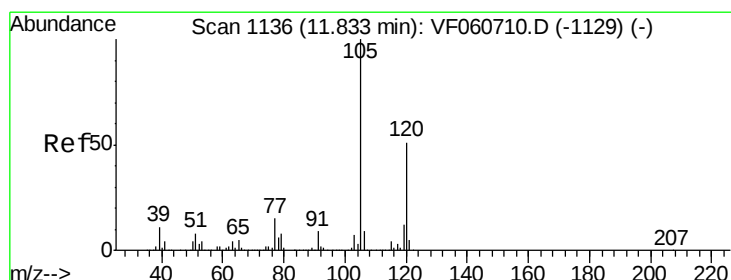
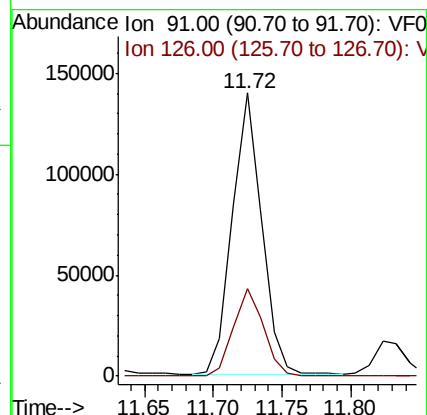
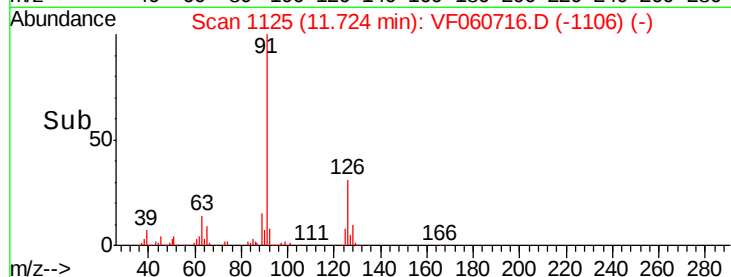
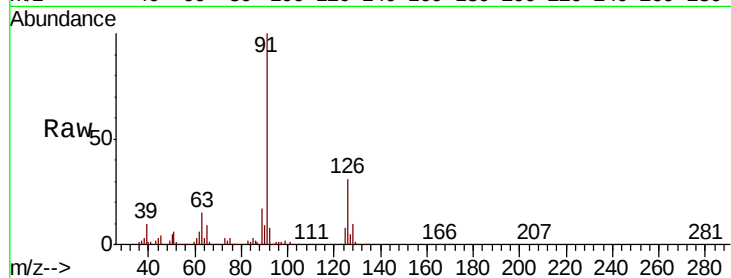
126 31.0 16.8 50.4

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#80

1,3,5-Trimethylbenzene

Concen: 21.188 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF060716.D

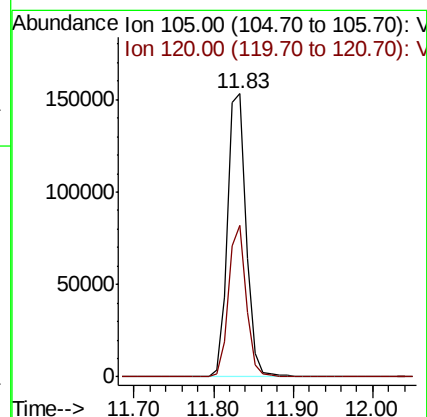
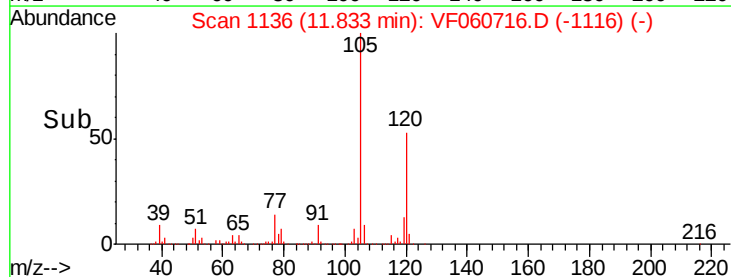
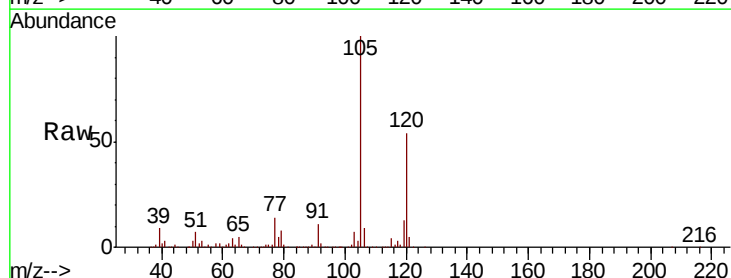
Acq: 13 Nov 2018 19:08

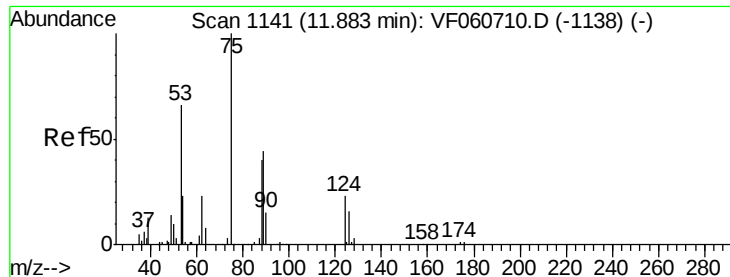
Tgt Ion: 105 Resp: 256852

Ion Ratio Lower Upper

105 100

120 53.6 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 19.715 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

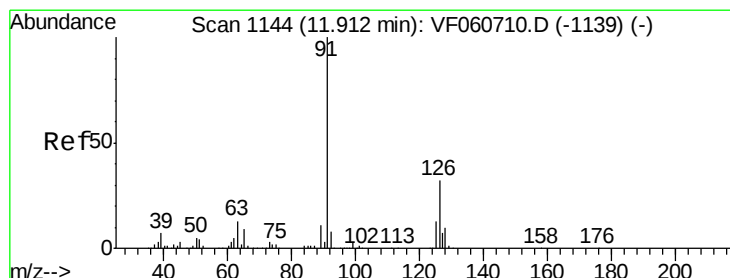
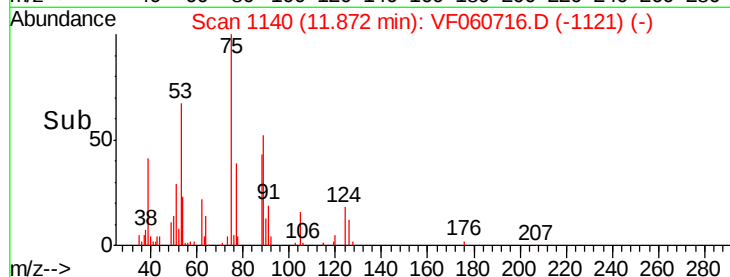
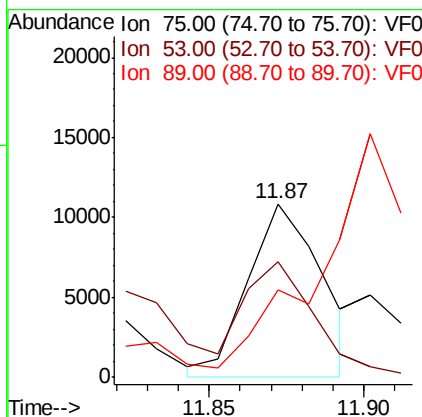
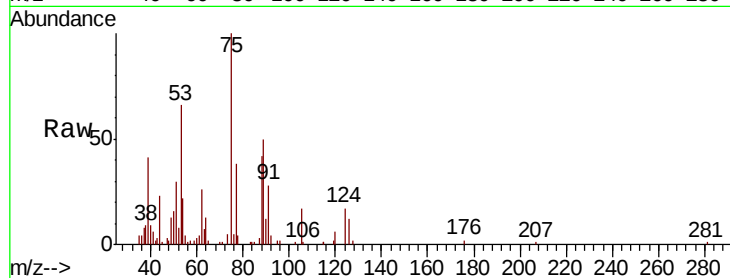
ClientSampleId :

VF1113SBS01

Tot Ion:	75	Resp:	18160
Ion	Ratio	Lower	Upper
75	100		
53	66.5	57.0	85.4
89	50.3	37.8	56.8

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#82

4-Chlorotoluene

Concen: 20.745 ug/l

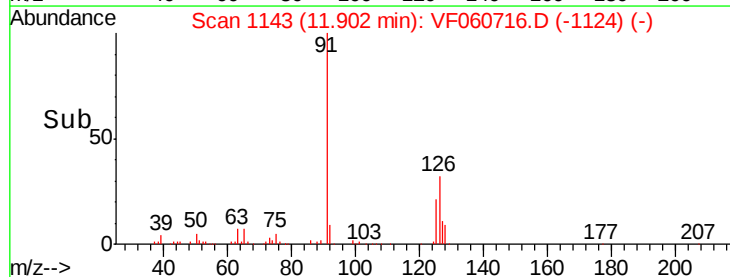
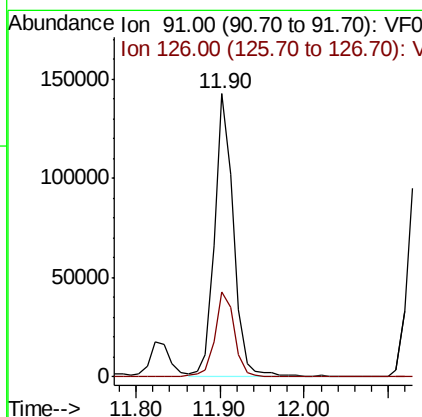
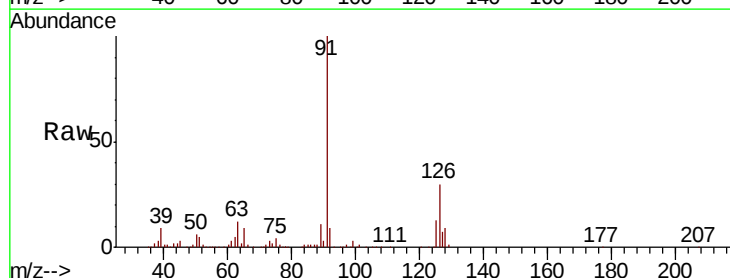
RT: 11.90 min Scan# 1143

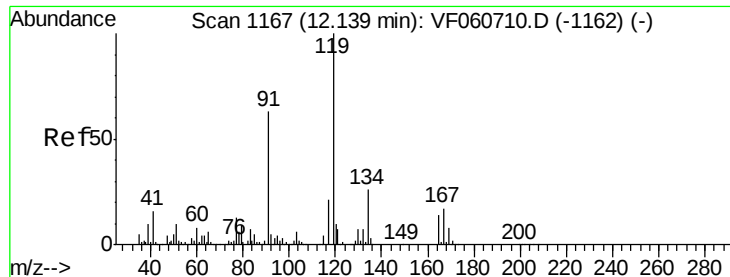
Delta R.T. -0.01 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Tgt Ion:	91	Resp:	219972
Ion	Ratio	Lower	Upper
91	100		
126	30.0	16.0	47.9





#83

tert-Butylbenzene

Concen: 20.494 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. -0.00 min

Lab File: VF060716.D

Acq: 13 Nov 2018 19:08

Instrument :

MSVOA_F

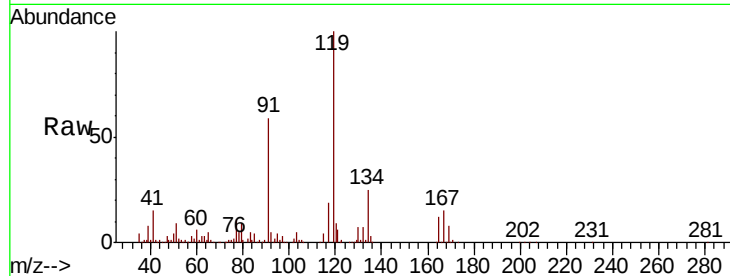
ClientSampleId :

VF1113SBS01

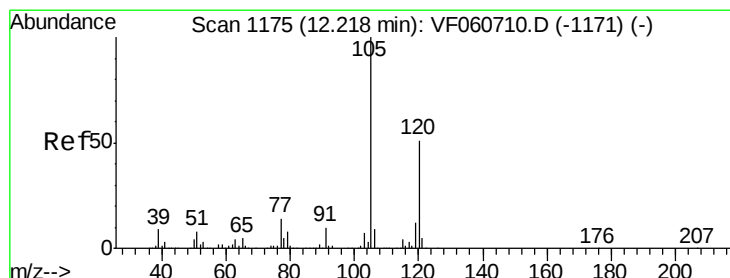
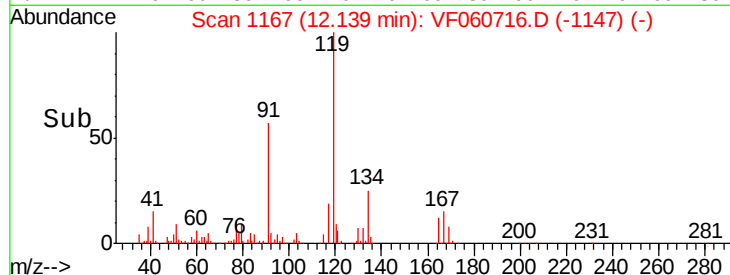
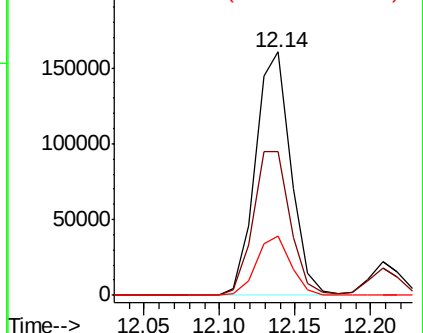
Tot Ion:	119	Resp:	263779
Ion Ratio	Lower	Upper	
119	100		
91	59.3	31.4	94.3
134	24.6	12.8	38.4

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.587 ug/l

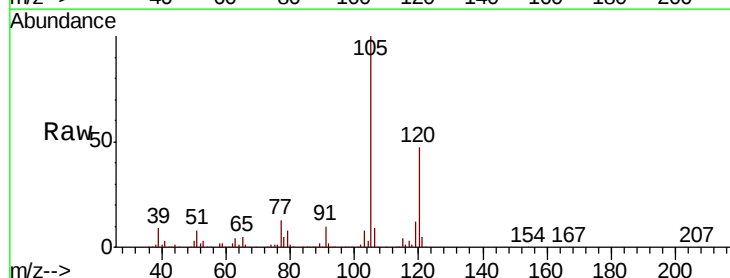
RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

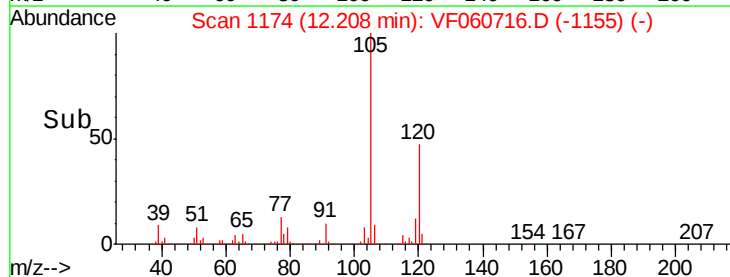
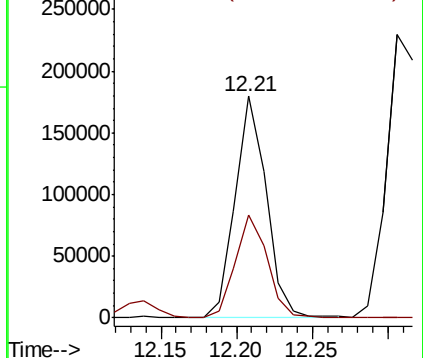
Lab File: VF060716.D

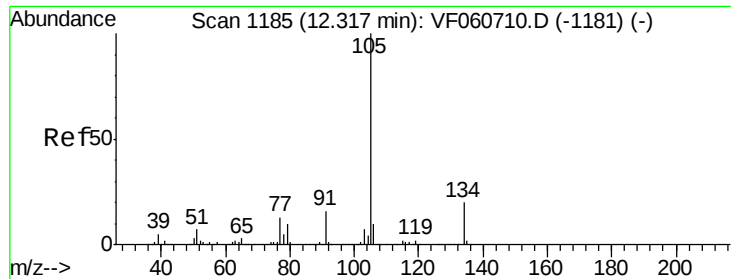
Acq: 13 Nov 2018 19:08

Tgt Ion:	105	Resp:	258108
Ion Ratio	Lower	Upper	
105	100		
120	46.6	25.5	76.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





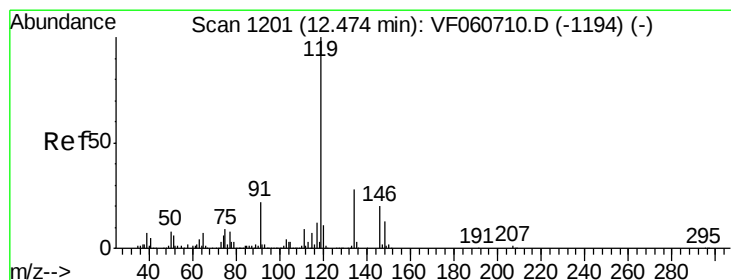
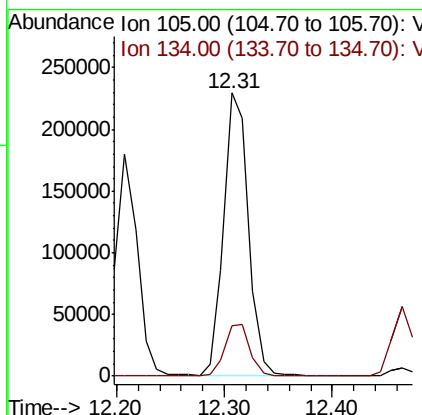
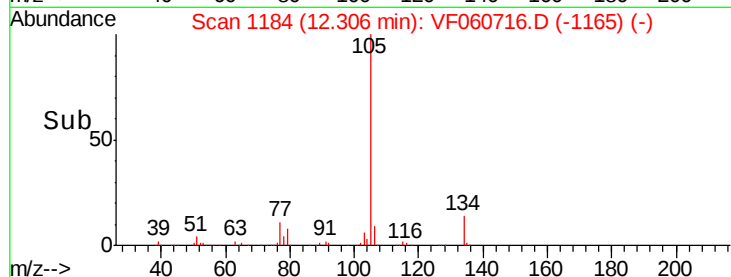
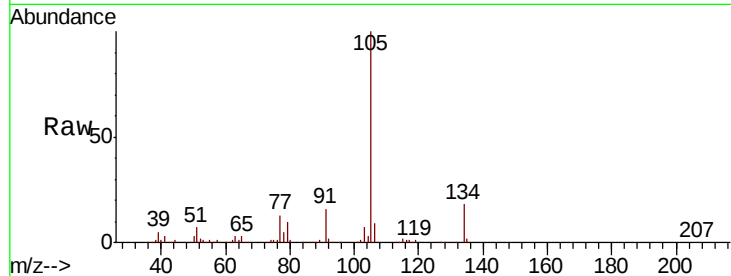
#85
 sec-Butylbenzene
 Concen: 20.941 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.0	10.1	30.3

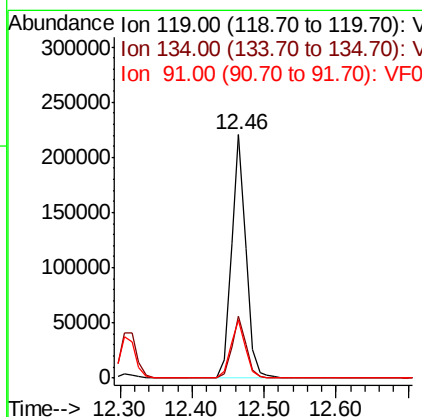
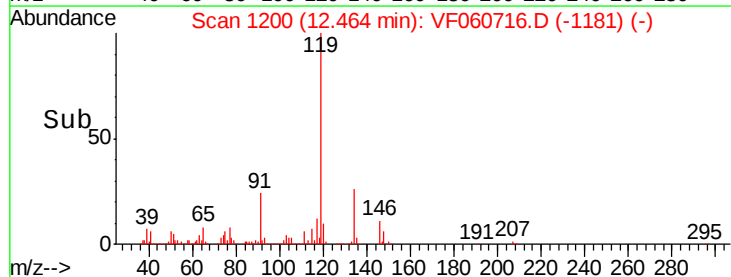
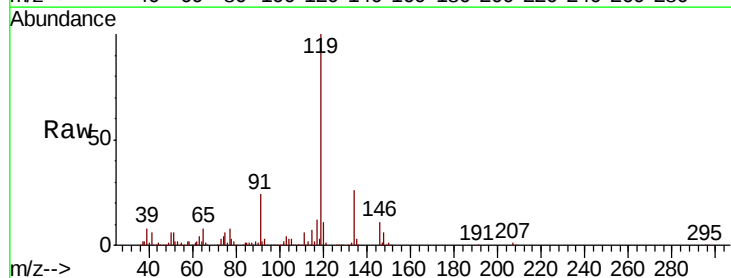
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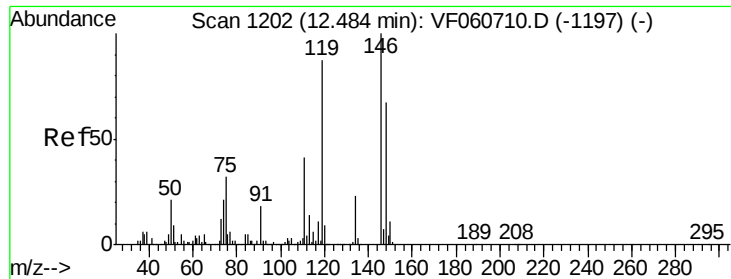
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#86
 p-Isopropyltoluene
 Concen: 20.968 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.9	41.7
91	24.1	11.3	33.9





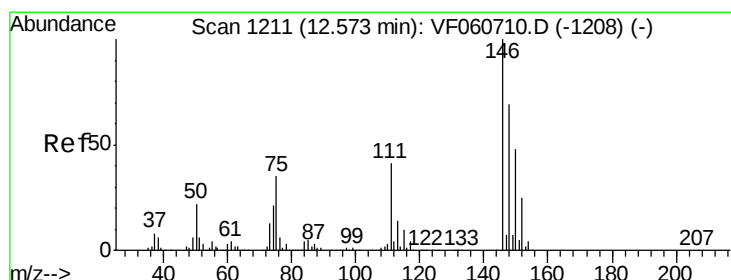
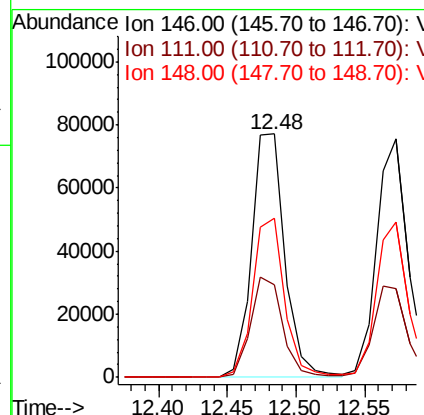
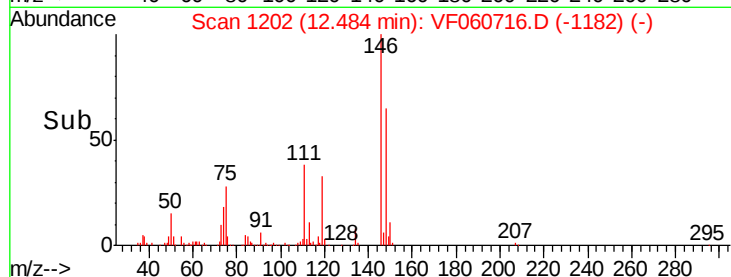
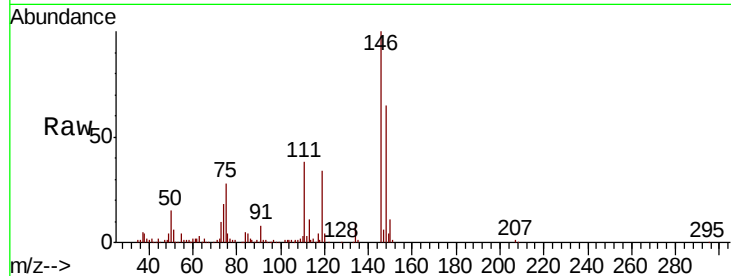
#87
 1,3-Dichlorobenzene
 Concen: 20.636 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.3	60.8
148	65.4	33.3	99.9

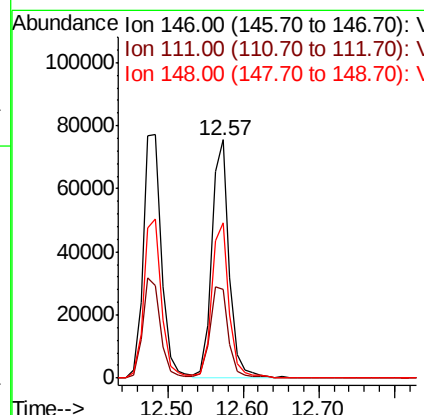
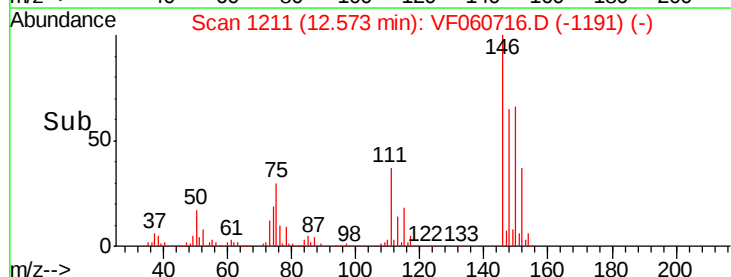
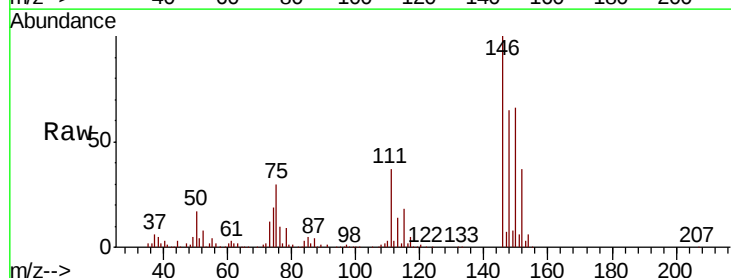
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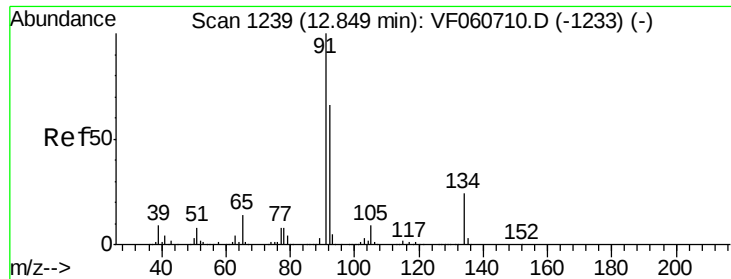
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#88
 1,4-Dichlorobenzene
 Concen: 19.950 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	20.6	61.9
148	65.3	34.7	104.1





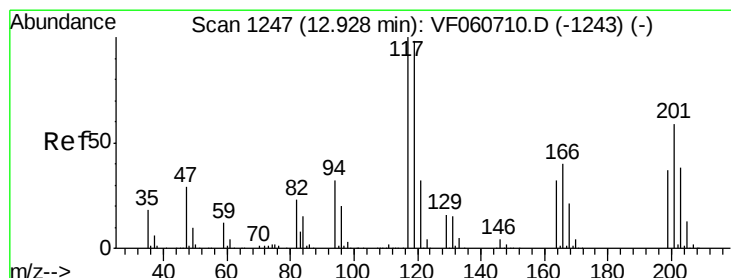
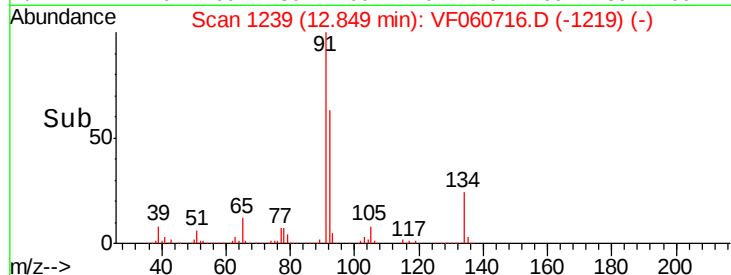
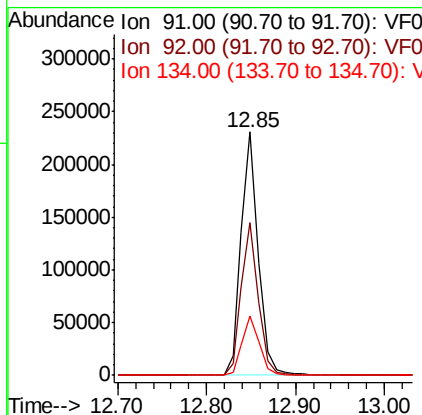
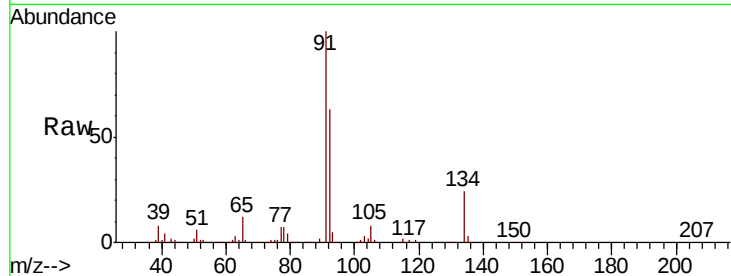
#89
n-Butylbenzene
Concen: 20.869 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		310570		
92	62.6	33.1	99.2		
134	24.3	11.9	35.9		

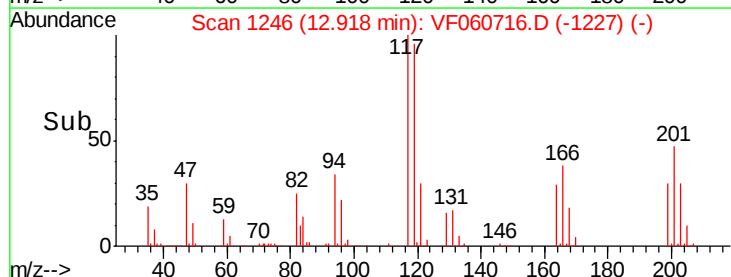
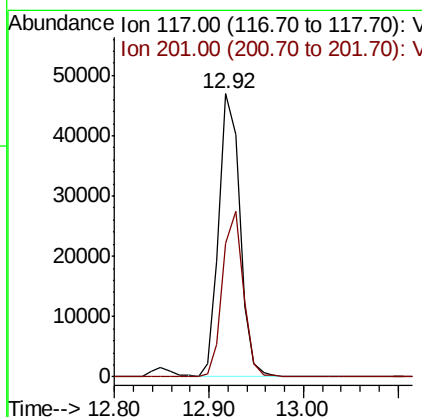
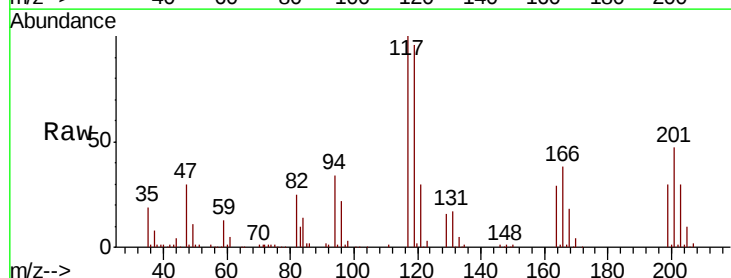
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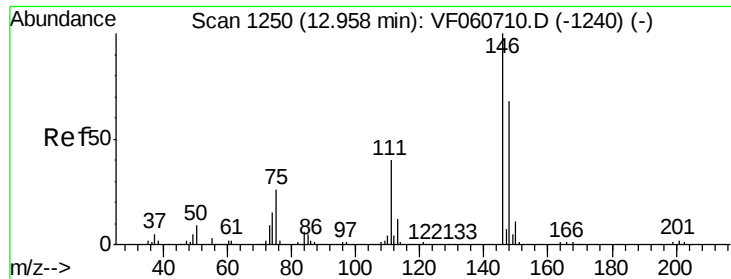
sam
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#90
Hexachloroethane
Concen: 20.597 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		73466		
201	47.2	29.4	88.3		





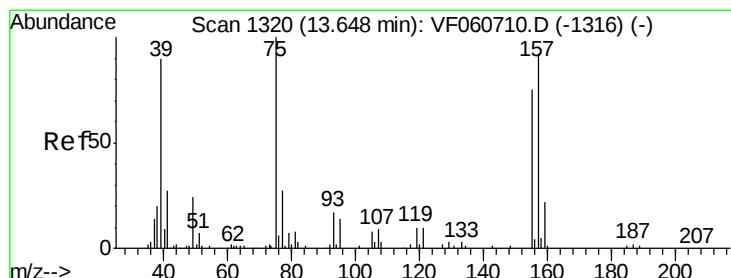
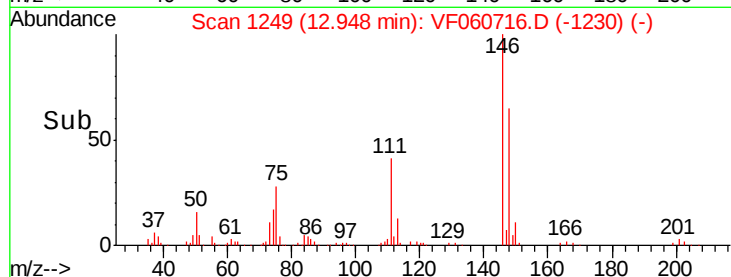
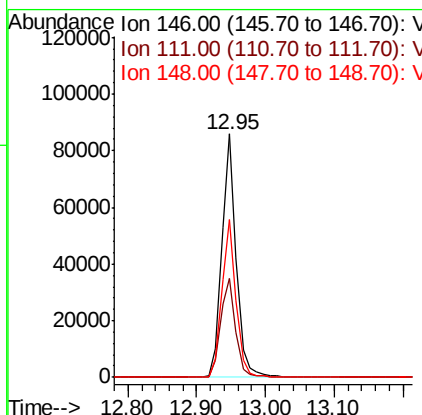
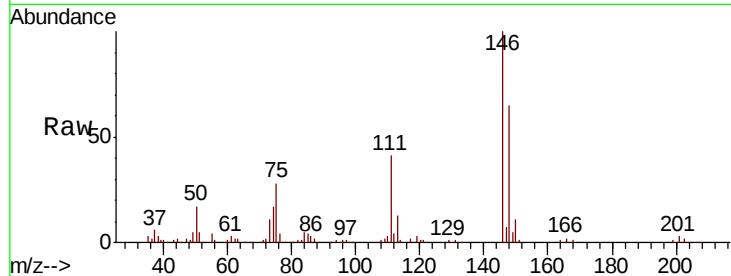
#91
 1,2-Dichlorobenzene
 Concen: 20.801 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	123884		
111	40.5	20.3	60.8	
148	64.7	34.1	102.3	

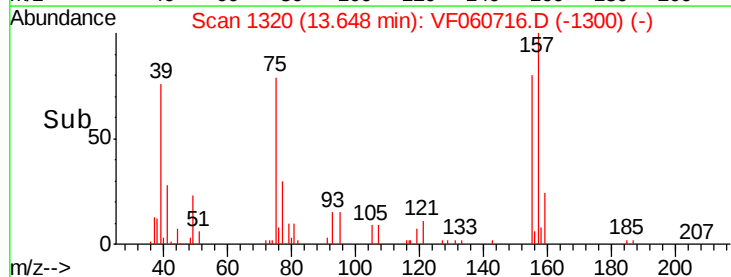
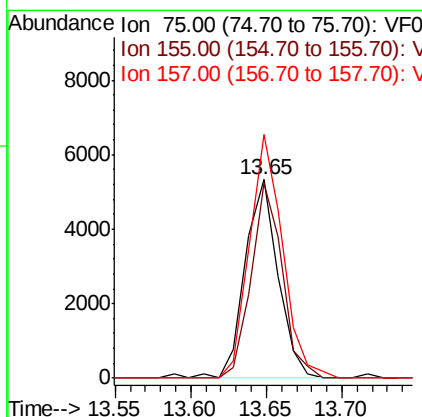
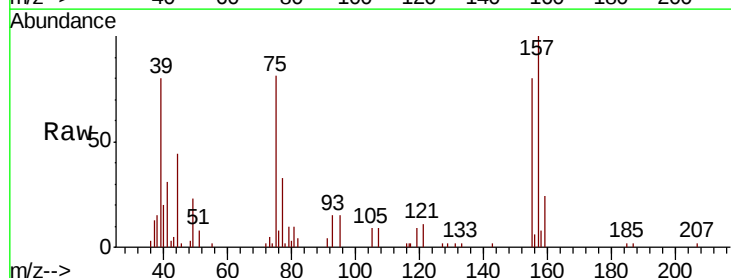
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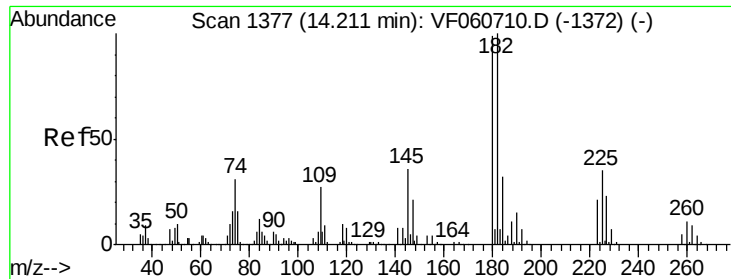
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.983 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8058		
155	98.3	37.4	112.2	
157	122.7	46.0	138.0	





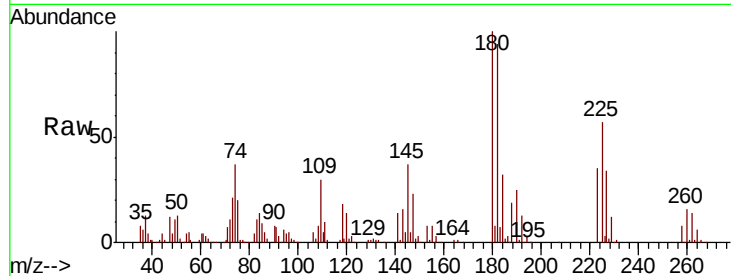
#93
 1,2,4-Trichlorobenzene
 Concen: 20.447 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1113SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.8	50.3	151.0	
145	37.5	18.3	54.9	

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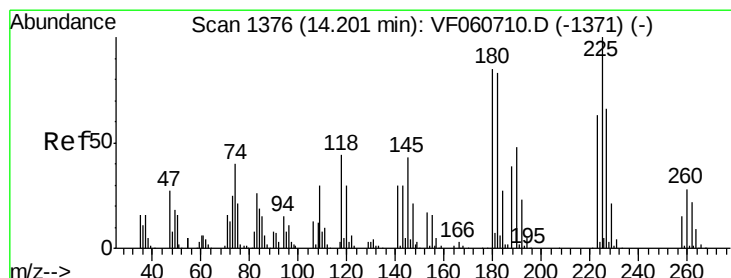
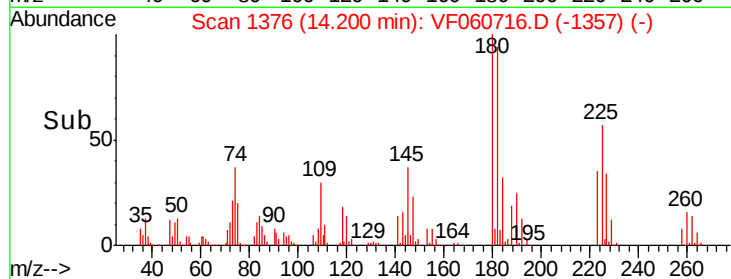
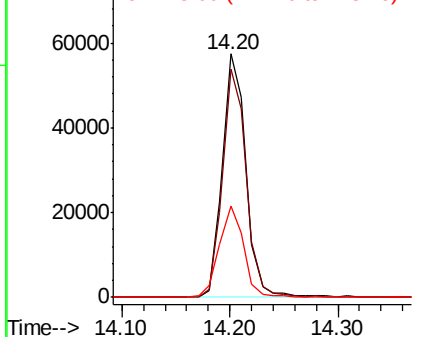


Abundance

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: 19.407 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF060716.D
 Acq: 13 Nov 2018 19:08

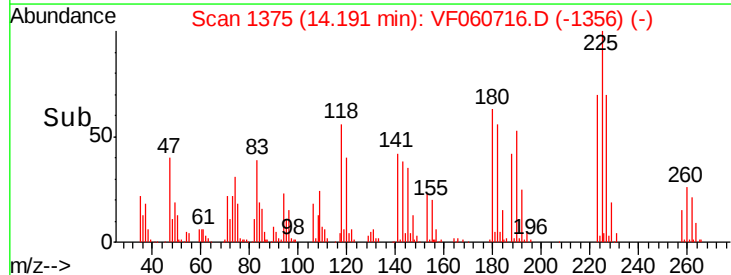
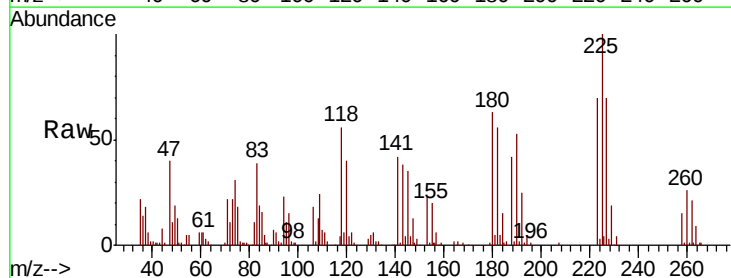
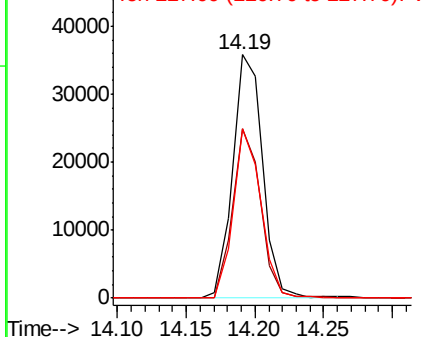
Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	69.6	31.5	94.5	
227	69.7	33.0	99.0	

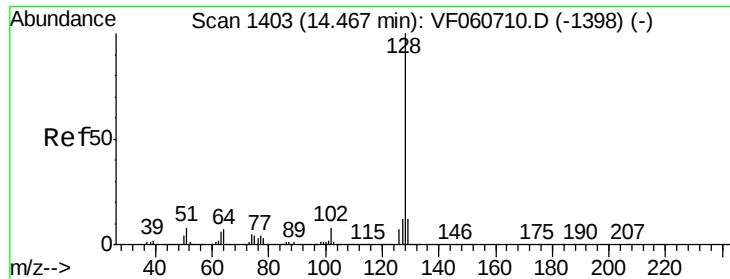
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





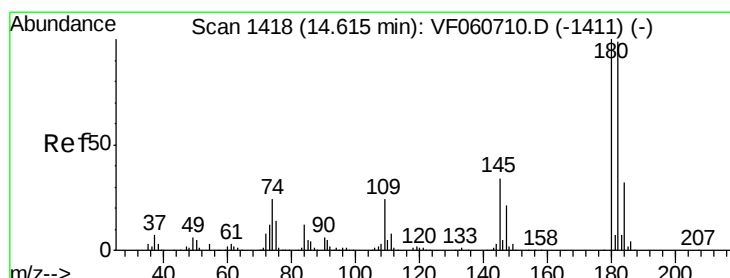
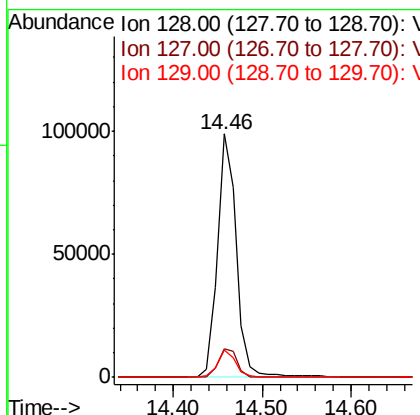
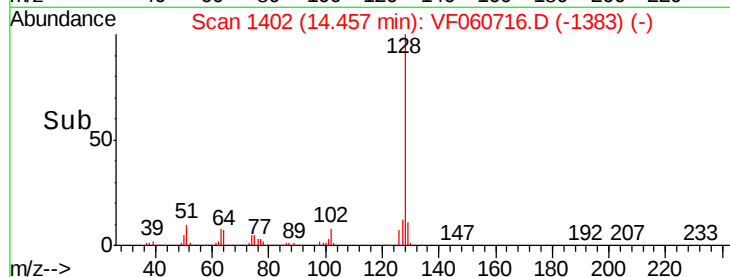
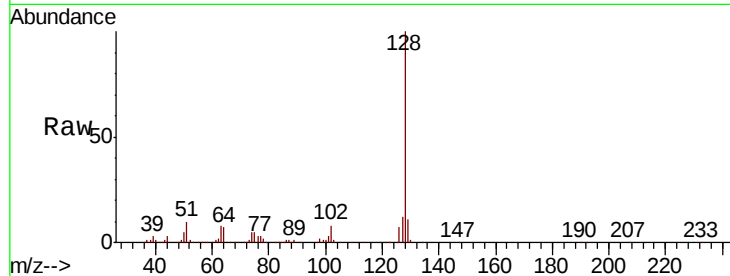
#95
Naphthalene
Concen: 18.827 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.8	14.6
129	11.3	9.3	13.9

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#96
1,2,3-Trichlorobenzene
Concen: 20.646 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF060716.D
Acq: 13 Nov 2018 19:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	49.6	149.0
145	35.0	16.9	50.7

