

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010219\
 Data File : VF061248.D
 Acq On : 2 Jan 2019 12:16
 Operator : VA/AP
 Sample : VF0102SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/3/2019 3:08:17 PM

Quant Time: Jan 02 15:06:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	204769	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	334357	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	305354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	152440	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	118563	45.02	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.04%	
35) Dibromofluoromethane	4.10	113	145130	54.19	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	108.38%	
50) Toluene-d8	7.54	98	372398	49.06	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	11.40	95	161813	46.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	79792	17.529	ug/l	97
3) Chloromethane	1.10	50	54511	20.906	ug/l	96
4) Vinyl Chloride	1.14	62	50391	20.833	ug/l #	83
5) Bromomethane	1.30	94	31353	18.688	ug/l	92
6) Chloroethane	1.38	64	24009	21.542	ug/l #	82
7) Trichlorofluoromethane	1.47	101	94275	20.413	ug/l	100
8) Diethyl Ether	1.62	74	14016	22.162	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.83	101	46336	19.350	ug/l	90
10) Methyl Iodide	1.91	142	74917m	19.848	ug/l	
11) Tert butyl alcohol	2.57	59	10485	98.655	ug/l	96
12) 1,1-Dichloroethene	1.79	96	39315	21.781	ug/l	93
13) Acrolein	1.99	56	8297	108.038	ug/l #	73
14) Allyl chloride	2.08	41	52713	28.062	ug/l	93
15) Acrylonitrile	2.93	53	26720	108.724	ug/l	94
16) Acetone	2.23	43	52558	99.825	ug/l #	91
17) Carbon Disulfide	1.81	76	108285m	19.851	ug/l	
18) Methyl Acetate	2.34	43	18814	17.272	ug/l	98
19) Methyl tert-butyl Ether	2.42	73	80613	20.120	ug/l	93
20) Methylene Chloride	2.17	84	41791m	22.356	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	37517	19.433	ug/l	85
22) Diisopropyl ether	2.78	45	136815	21.866	ug/l	97
23) Vinyl Acetate	3.18	43	302466	104.785	ug/l	99
24) 1,1-Dichloroethane	2.86	63	82397	22.226	ug/l	99
25) 2-Butanone	4.31	43	90548	106.042	ug/l	94
26) 2,2-Dichloropropane	3.57	77	50131	23.563	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	60060	20.321	ug/l	92
28) Bromochloromethane	3.70	49	37869	20.132	ug/l	93
29) Tetrahydrofuran	4.06	42	37374	107.539	ug/l	96
30) Chloroform	3.85	83	111053	19.978	ug/l	95
31) Cyclohexane	3.67	56	83052m	21.589	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	73148	21.954	ug/l	97
36) 1,1-Dichloropropene	4.26	75	82830	20.523	ug/l	99
37) Ethyl Acetate	4.10	43	32146	18.361	ug/l #	70
38) Carbon Tetrachloride	3.98	117	69079	22.476	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	86778	23.967	ug/l	97
40) Benzene	4.62	78	187854	21.644	ug/l	96
41) Methacrylonitrile	4.74	41	20338	23.861	ug/l #	91
42) 1,2-Dichloroethane	4.92	62	61334	18.602	ug/l	98
43) Isopropyl Acetate	6.95	43	37955	19.477	ug/l	95
44) Trichloroethene	5.49	130	63295	23.131	ug/l	98
45) 1,2-Dichloropropane	6.23	63	49935	21.147	ug/l	99
46) Dibromomethane	6.07	93	29325	19.147	ug/l	96
47) Bromodichloromethane	6.37	83	76063	19.115	ug/l	96
48) Methyl methacrylate	6.71	41	25549	18.780	ug/l	98
49) 1,4-Dioxane	6.71	88	3841	389.109	ug/l #	75
51) 4-Methyl-2-Pentanone	8.25	43	142169	106.375	ug/l	100
52) Toluene	7.61	92	122391	21.303	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	63334	19.729	ug/l	97
54) cis-1,3-Dichloropropene	7.28	75	84146	20.885	ug/l	93
55) 1,1,2-Trichloroethane	8.48	97	33864	19.662	ug/l	96
56) Ethyl methacrylate	8.61	69	34914	18.734	ug/l	91
57) 1,3-Dichloropropane	8.84	76	60463	19.410	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.28	63	20306	56.731	ug/l	96
59) 2-Hexanone	9.48	43	100314	103.789	ug/l	100
60) Dibromochloromethane	8.70	129	49781	20.163	ug/l	96
61) 1,2-Dibromoethane	8.98	107	36317	19.744	ug/l	93
64) Tetrachloroethene	8.14	164	51360	21.865	ug/l	90
65) Chlorobenzene	9.79	112	132675	21.032	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	55498	21.528	ug/l	96
67) Ethyl Benzene	9.89	91	248534	21.626	ug/l	99
68) m/p-Xylenes	10.12	106	181829	44.958	ug/l	100
69) o-Xylene	10.70	106	89376	19.925	ug/l	97
70) Styrene	10.77	104	131600	21.271	ug/l	97
71) Bromoform	10.76	173	24467	20.515	ug/l #	98
73) Isopropylbenzene	11.12	105	279119	21.247	ug/l	100
74) N-amyl acetate	11.37	43	62457	21.415	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	47085	21.596	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	34023	20.969	ug/l	85
77) Bromobenzene	11.48	156	57924	20.483	ug/l	92
78) n-propylbenzene	11.58	91	336833	19.723	ug/l	99
79) 2-Chlorotoluene	11.71	91	193803	21.506	ug/l	97
80) 1,3,5-Trimethylbenzene	11.82	105	238672	22.065	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	13961m	20.024	ug/l	
82) 4-Chlorotoluene	11.89	91	187358	20.098	ug/l	98
83) tert-Butylbenzene	12.12	119	241308	21.679	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	220921	20.481	ug/l	99
85) sec-Butylbenzene	12.29	105	320477	22.062	ug/l	94
86) p-Isopropyltoluene	12.45	119	265685	22.035	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	112412	21.267	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	109188	21.027	ug/l	97
89) n-Butylbenzene	12.84	91	281368	20.390	ug/l	95
90) Hexachloroethane	12.90	117	65058	21.840	ug/l	96
91) 1,2-Dichlorobenzene	12.93	146	109268	21.614	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7986	19.961	ug/l	86

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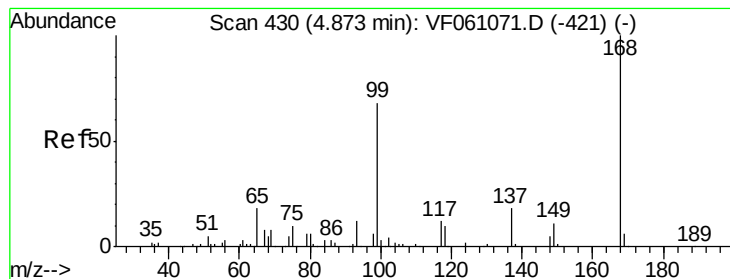
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	78630	21.931	ug/l	95
94) Hexachlorobutadiene	14.19	225	51287	22.460	ug/l	99
95) Naphthalene	14.44	128	123776	18.906	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	72153	21.769	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion:168 Resp: 204769

Ion Ratio Lower Upper

168 100

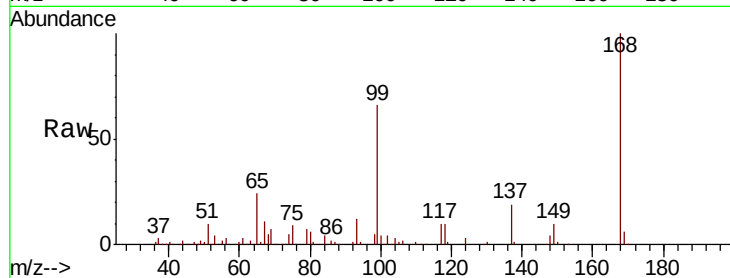
99 65.6 54.4 81.6

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

4.85

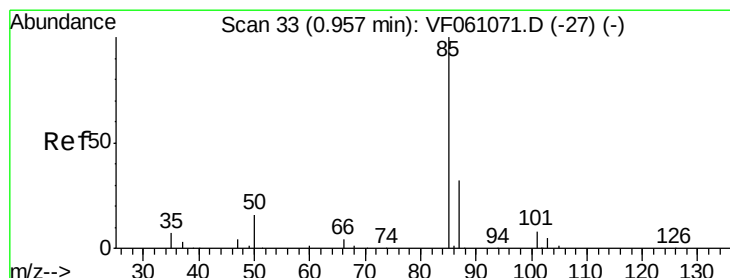
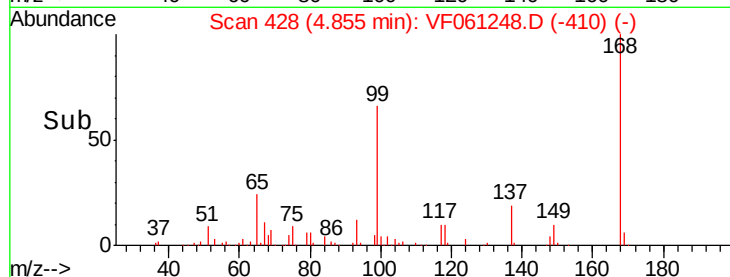
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.529 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061248.D

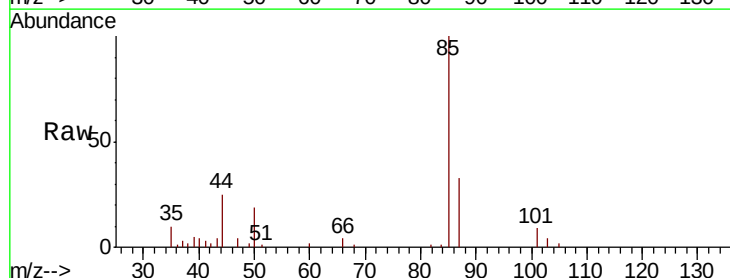
Acq: 2 Jan 2019 12:16

Tgt Ion: 85 Resp: 79792

Ion Ratio Lower Upper

85 100

87 33.5 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

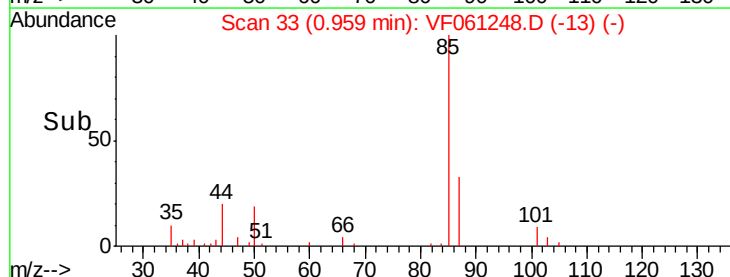
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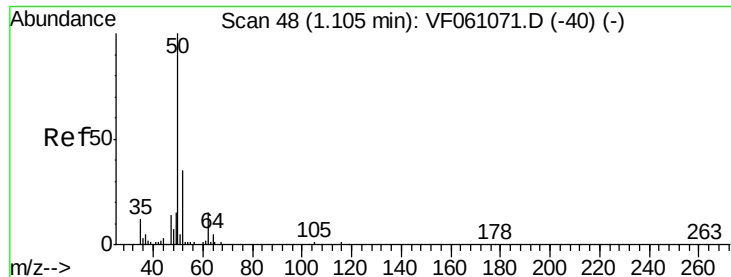
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.906 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 50 Resp: 54511

Ion Ratio Lower Upper

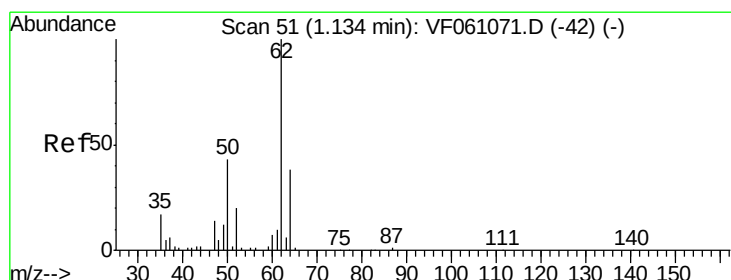
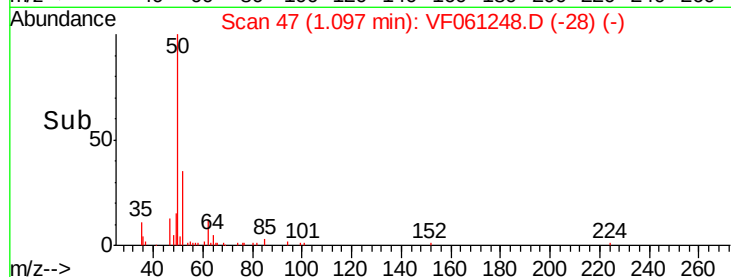
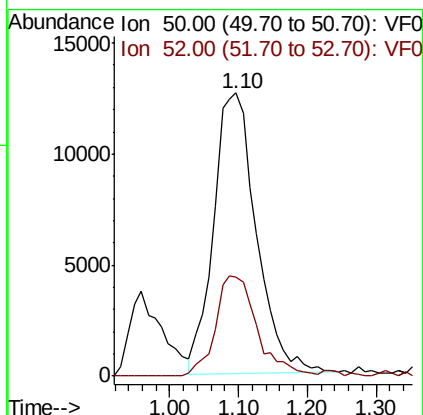
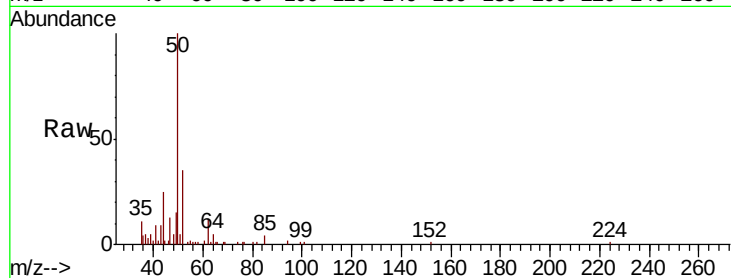
50 100

52 35.0 26.3 39.5

Manual Integrations
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#4

Vinyl Chloride

Concen: 20.833 ug/l

RT: 1.14 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061248.D

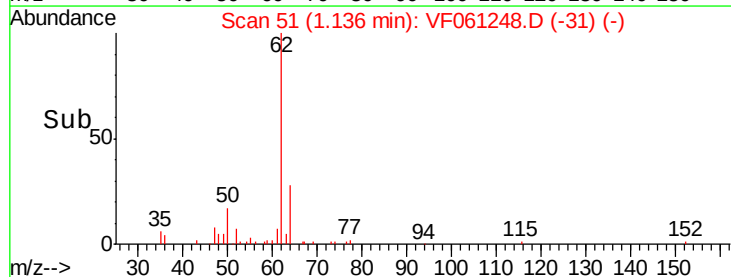
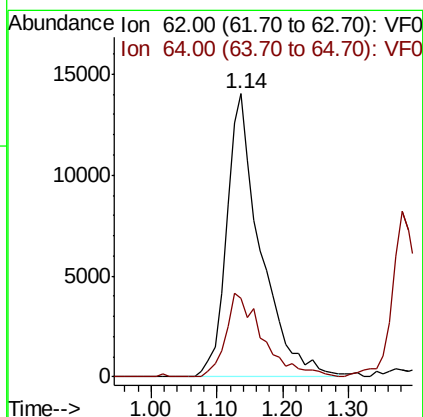
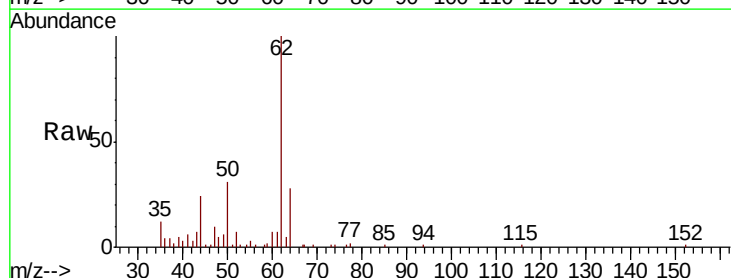
Acq: 2 Jan 2019 12:16

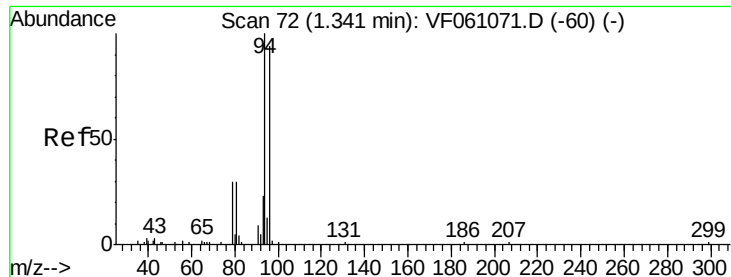
Tgt Ion: 62 Resp: 50391

Ion Ratio Lower Upper

62 100

64 27.8 30.4 45.6#





#5

Bromomethane

Concen: 18.688 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.04 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 94 Resp: 31353

Ion Ratio Lower Upper

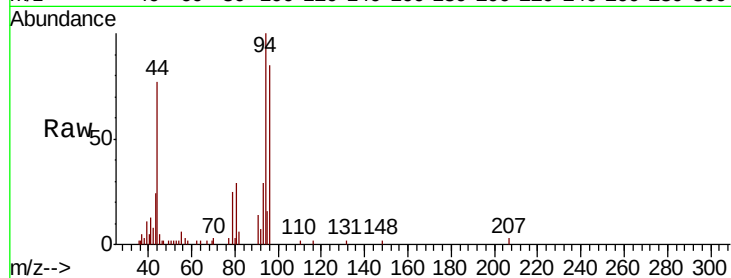
94 100

96 85.4 74.4 111.6

Manual Integrations
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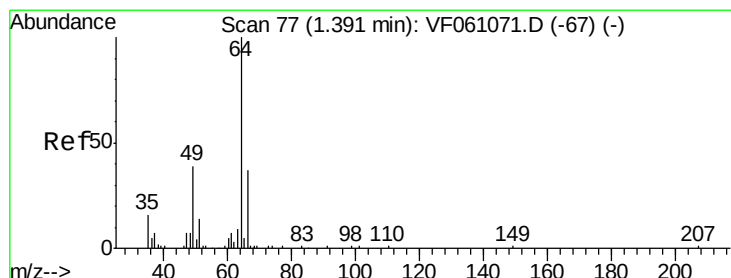
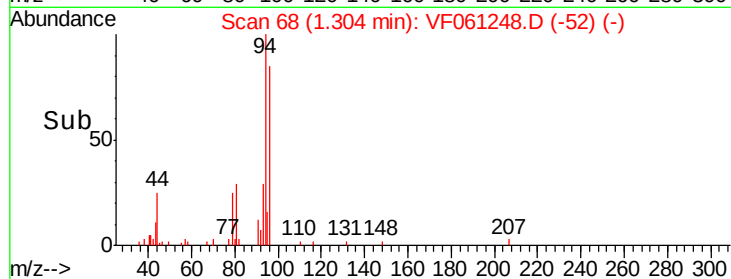
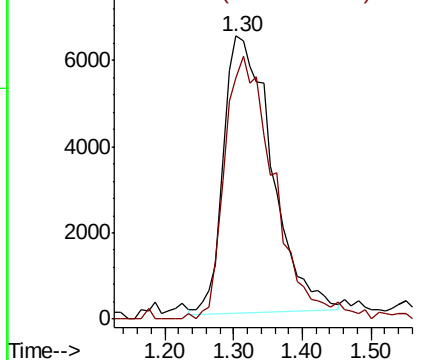
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 21.542 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061248.D

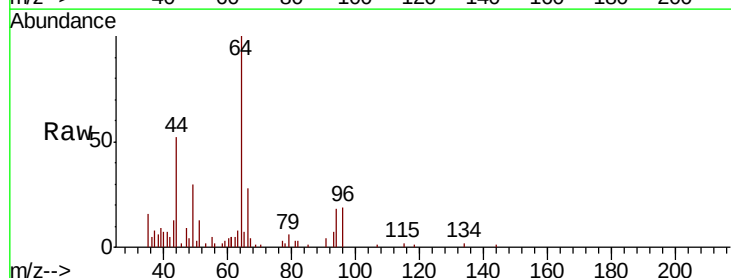
Acq: 2 Jan 2019 12:16

Tgt Ion: 64 Resp: 24009

Ion Ratio Lower Upper

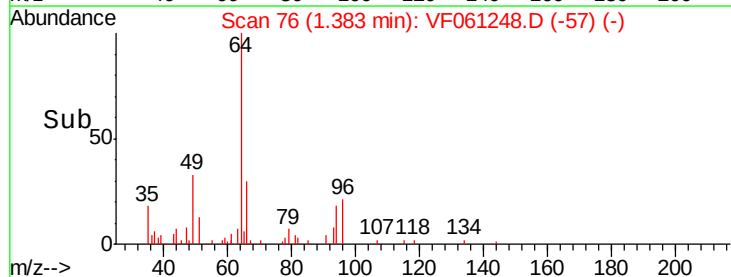
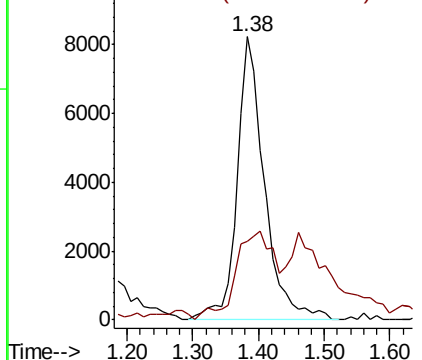
64 100

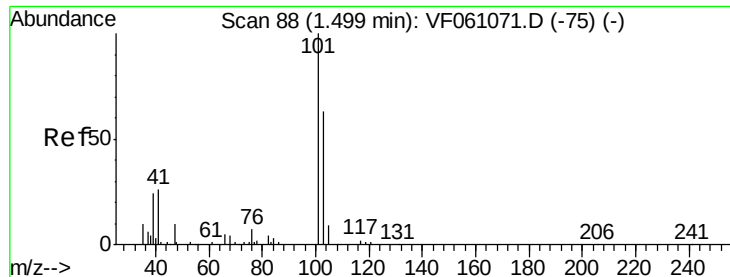
66 27.8 30.9 46.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

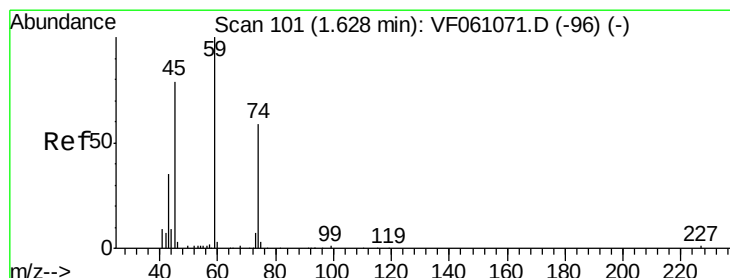
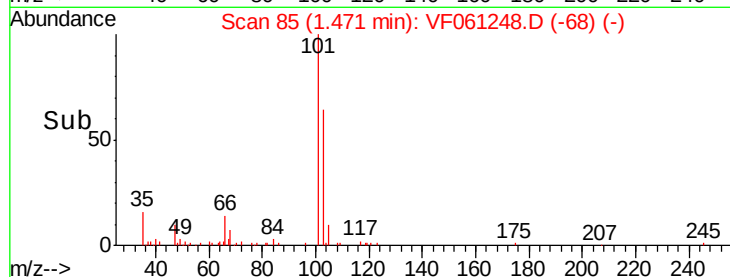
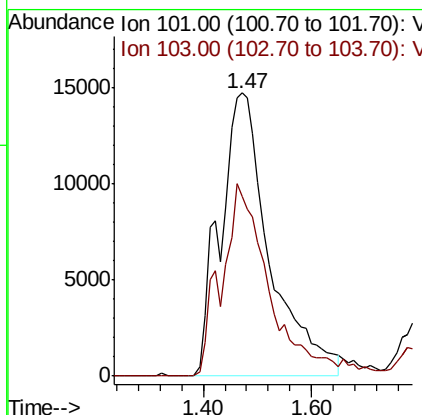
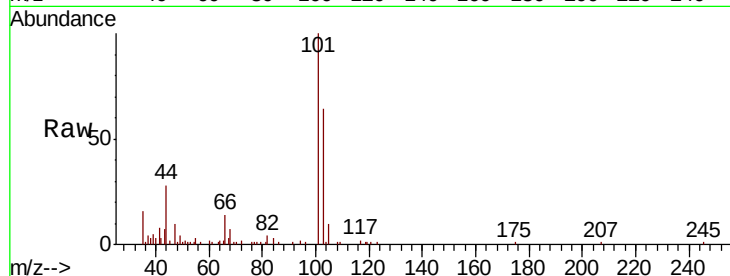
Trichlorofluoromethane
Concen: 20.413 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.03 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.7	76.1

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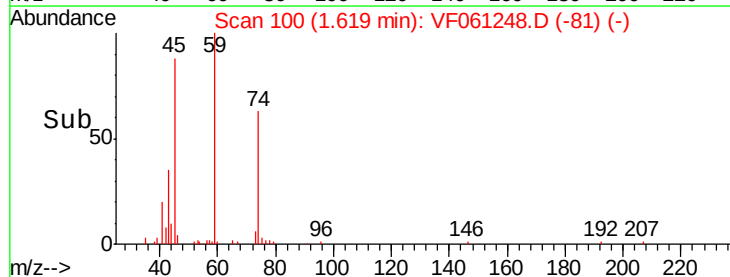
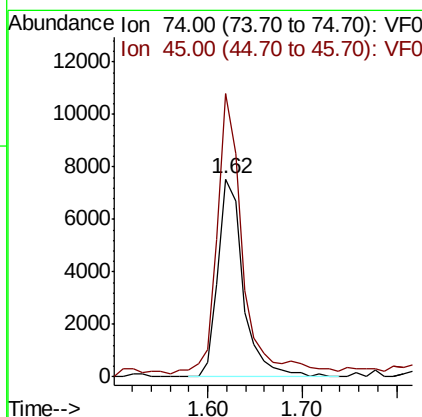
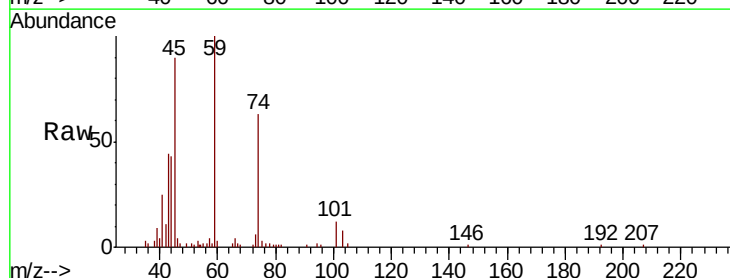
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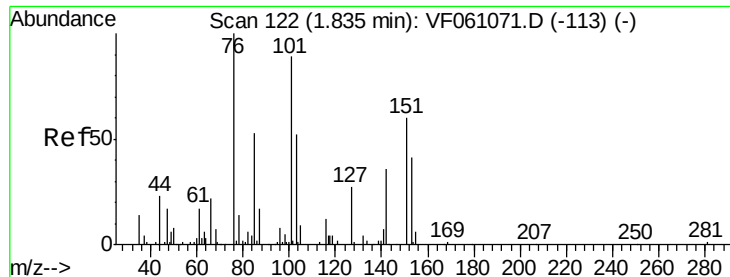


#8

Diethyl Ether
Concen: 22.162 ug/l
RT: 1.62 min Scan# 100
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	143.2	67.8	203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.350 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

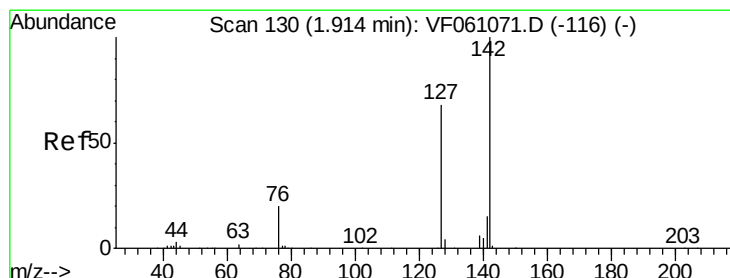
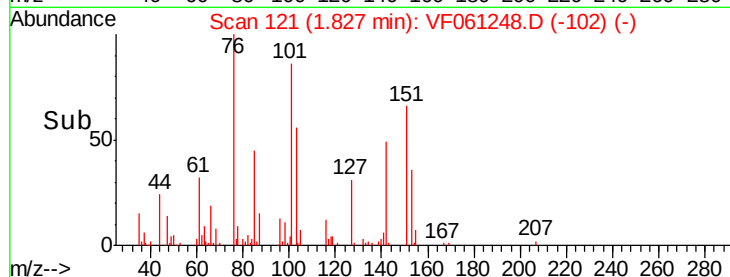
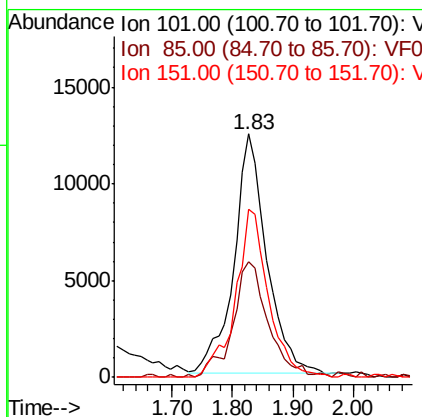
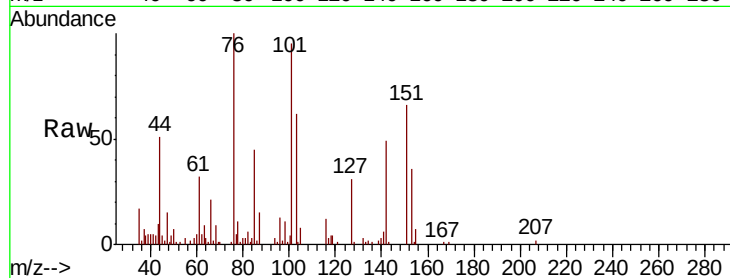
ClientSampleId :

VF0102SBS01

Tot Ion:	101	Resp:	46336
Ion Ratio	Lower	Upper	
101	100		
85	47.7	44.5	66.7
151	69.1	49.9	74.9

Manual Integrations
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#10

Methyl Iodide

Concen: 19.848 ug/l m

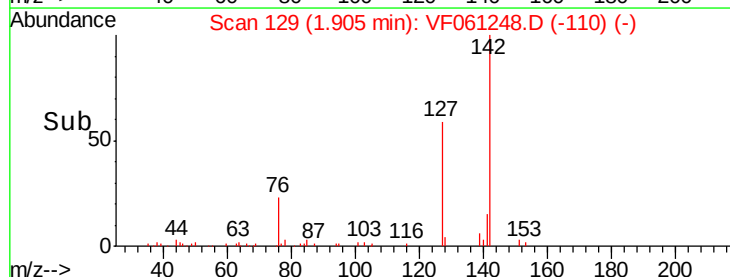
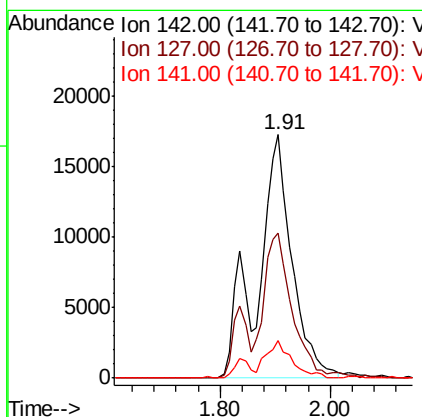
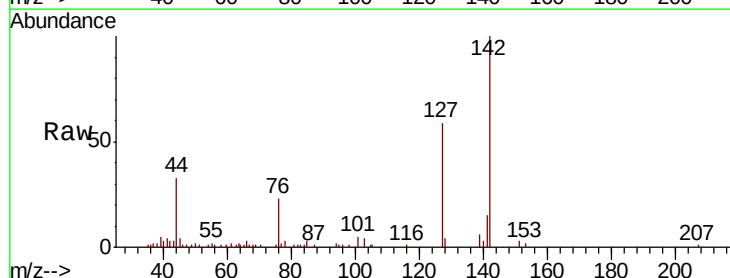
RT: 1.91 min Scan# 129

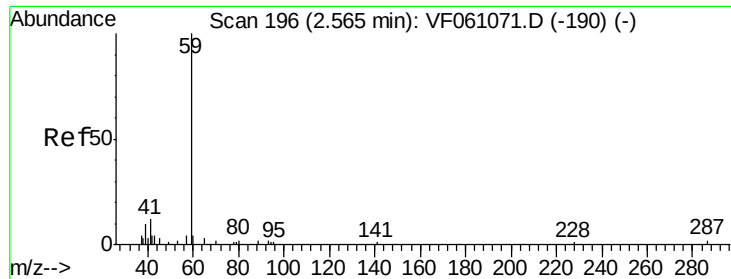
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	142	Resp:	74917
Ion Ratio	Lower	Upper	
142	100		
127	59.4	54.7	82.1
141	15.5	12.2	18.2





#11

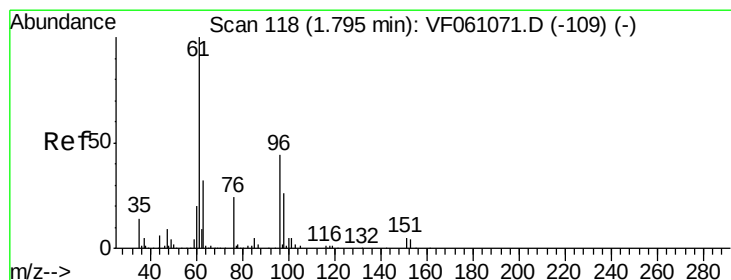
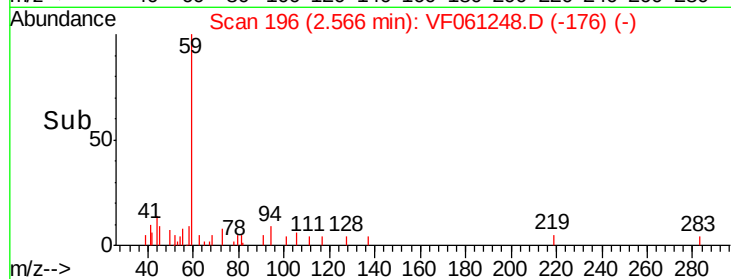
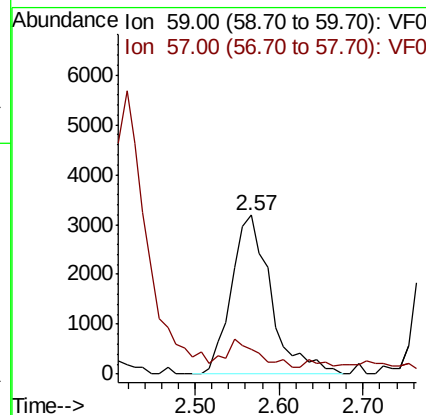
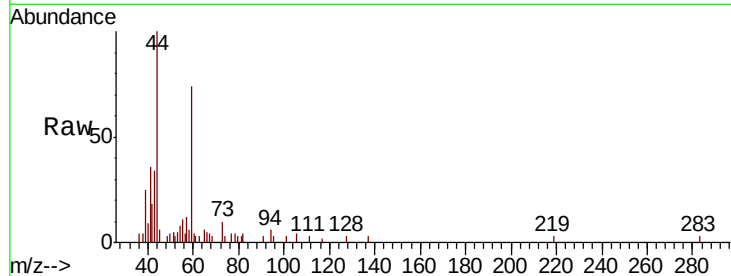
Tert butyl alcohol
Concen: 98.655 ug/l
RT: 2.57 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.0	11.5	17.3

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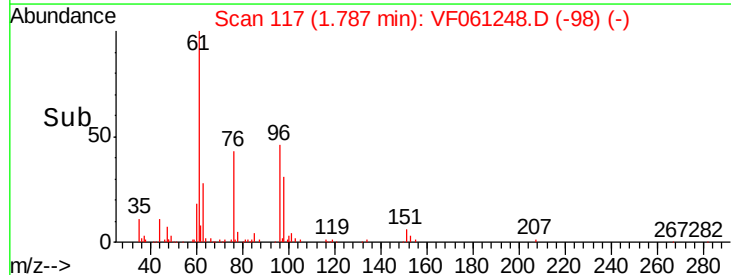
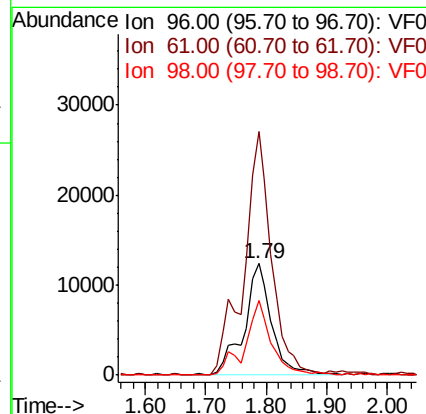
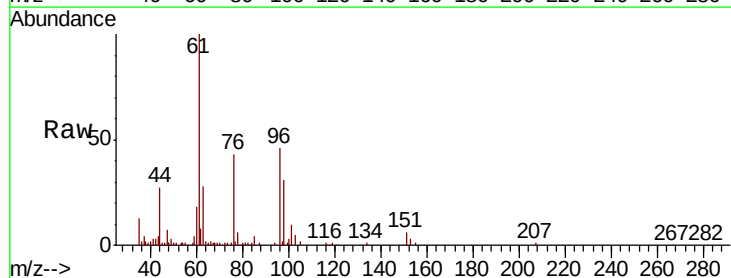
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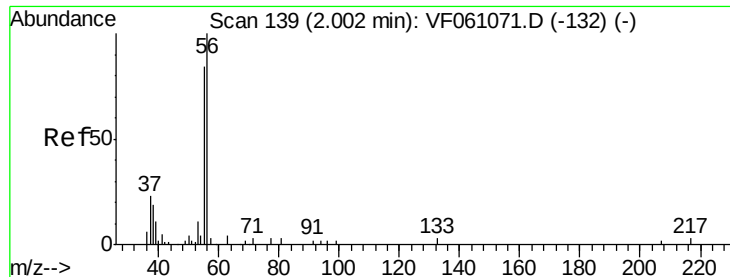


#12

1,1-Dichloroethene
Concen: 21.781 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	218.6	182.0	273.0
98	67.3	46.5	69.7





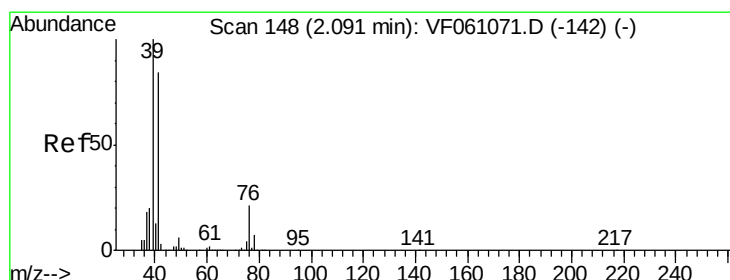
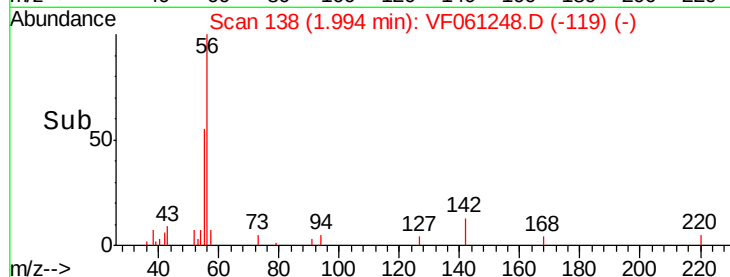
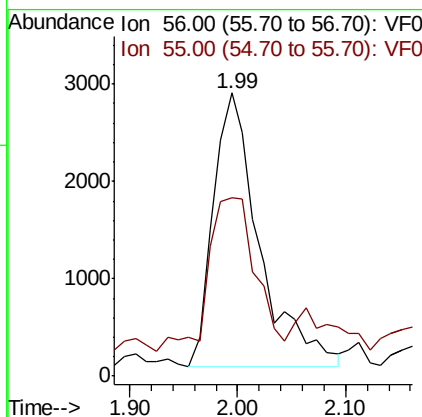
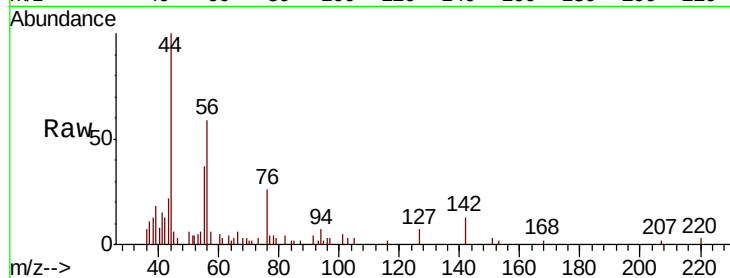
#13
Acrolein
Concen: 108.038 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	56	Resp	8297
Ion Ratio	Lower	Upper	
56	100		
55	63.0	70.2	105.2#

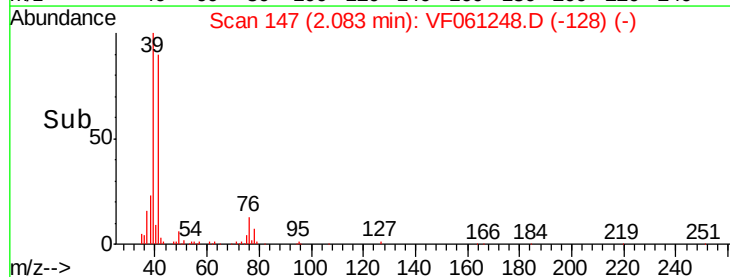
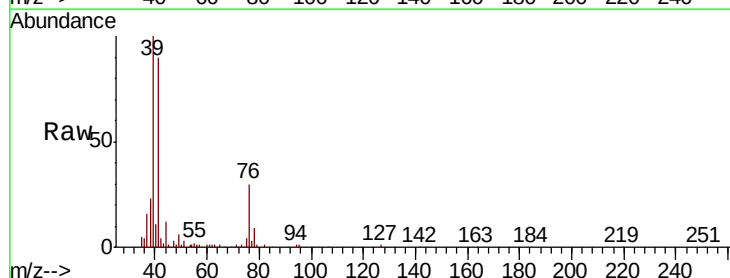
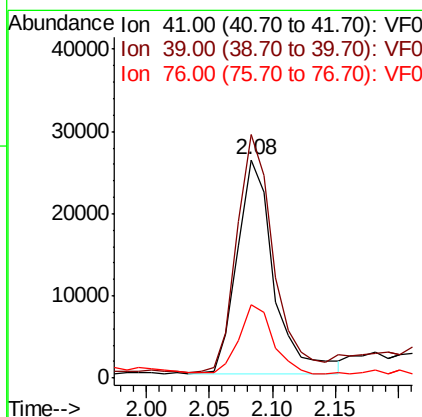
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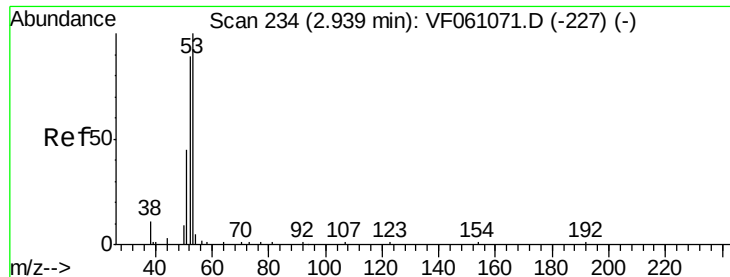
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#14
Allyl chloride
Concen: 28.062 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	41	Resp	52713
Ion Ratio	Lower	Upper	
41	100		
39	111.7	96.4	144.6
76	33.6	25.4	38.0





#15

Acrylonitrile

Concen: 108.724 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

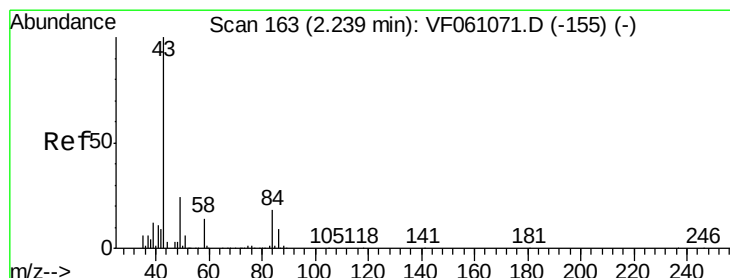
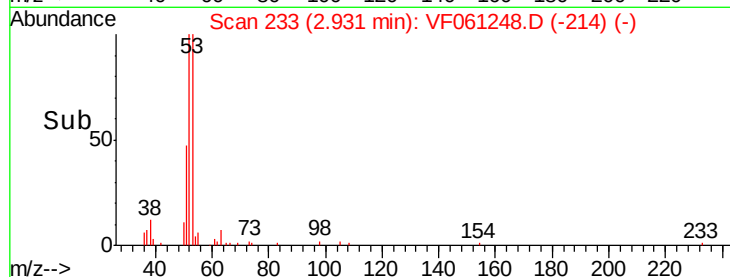
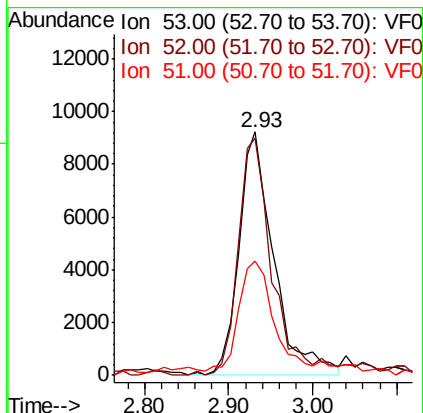
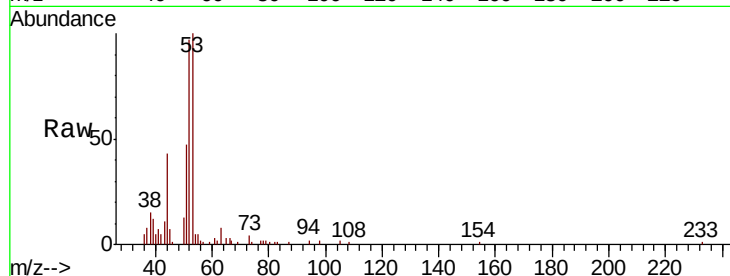
ClientSampleId :

VF0102SBS01

Tot Ion:	53	Resp:	26720
Ion	Ratio	Lower	Upper
53	100		
52	97.2	71.3	106.9
51	46.9	36.8	55.2

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#16

Acetone

Concen: 99.825 ug/l

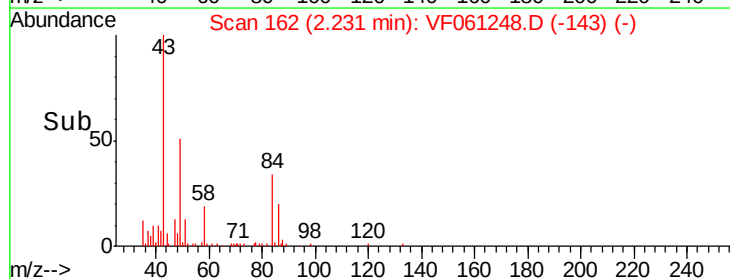
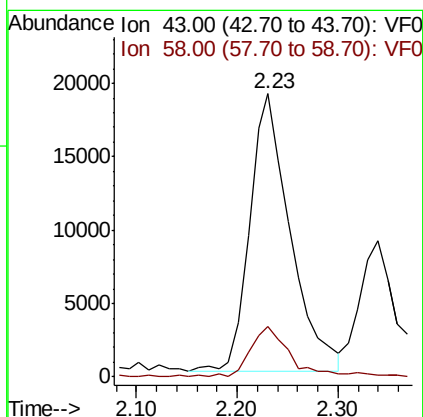
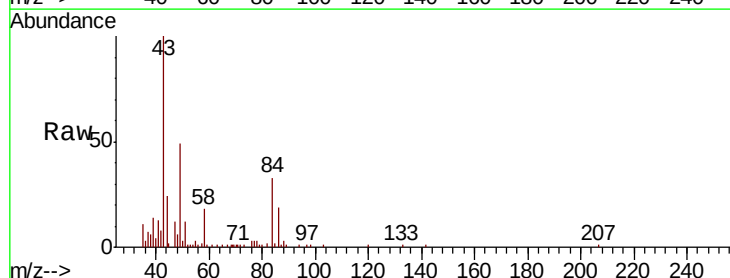
RT: 2.23 min Scan# 162

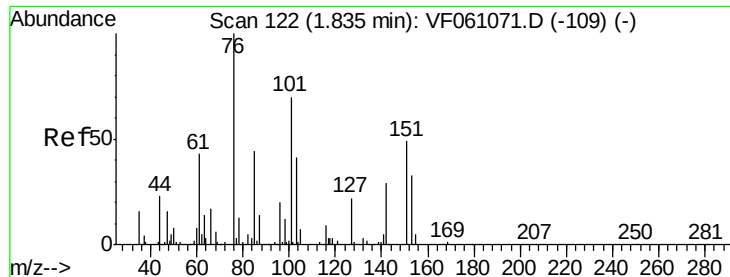
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	43	Resp:	52558
Ion	Ratio	Lower	Upper
43	100		
58	17.7	11.1	16.7#





#17

Carbon Disulfide

Concen: 19.851 ug/l m

RT: 1.81 min Scan# 119

Delta R.T. -0.03 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tot Ion: 76 Resp: 108285

Ion Ratio Lower Upper

76 100

78 10.8 10.2 15.4

Instrument :

MSVOA_F

ClientSampleId :

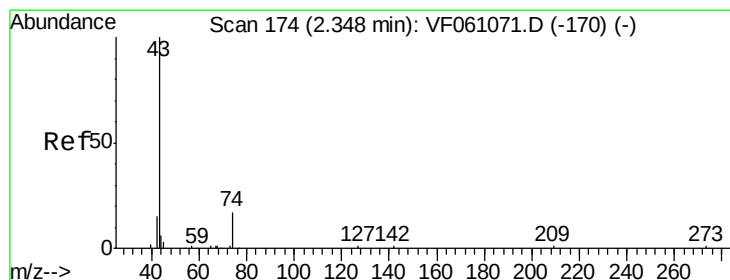
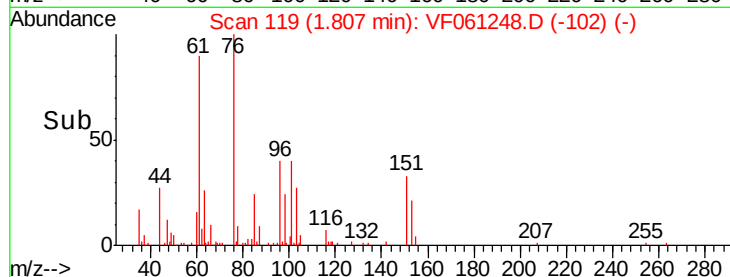
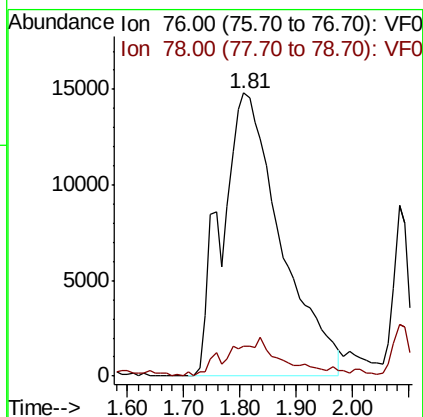
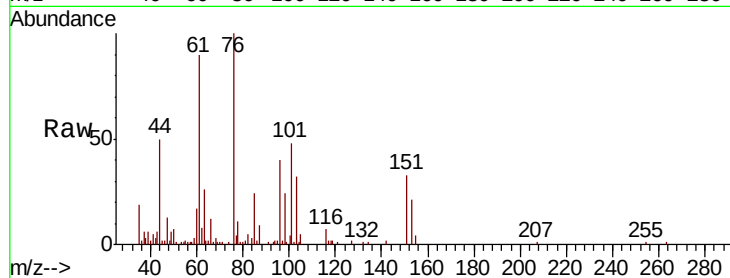
VF0102SBS01

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#18

Methyl Acetate

Concen: 17.272 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF061248.D

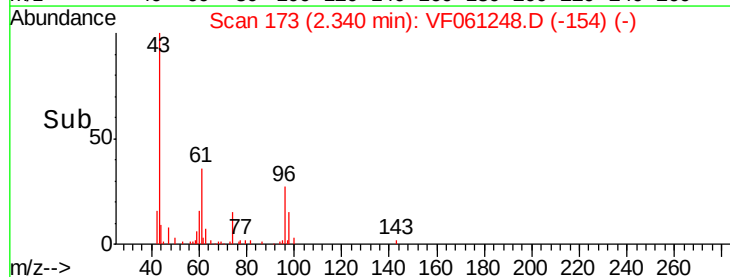
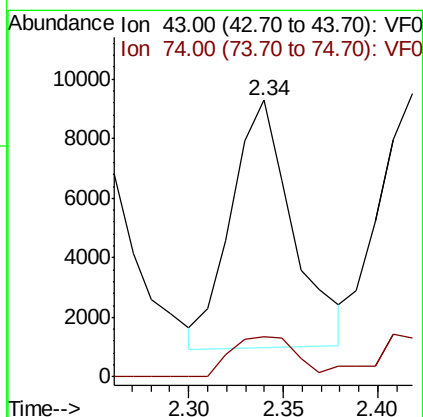
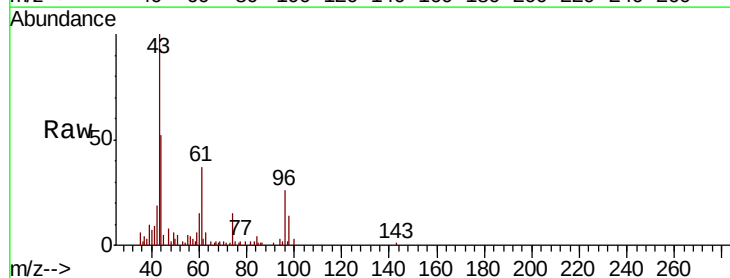
Acq: 2 Jan 2019 12:16

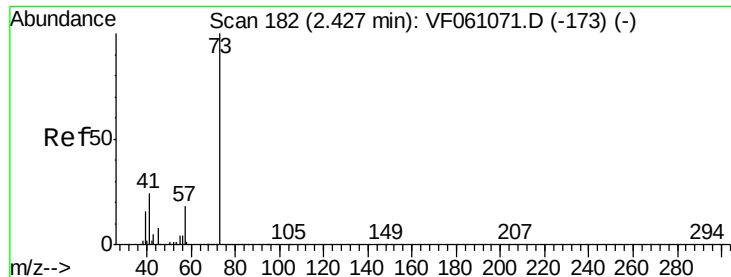
Tgt Ion: 43 Resp: 18814

Ion Ratio Lower Upper

43 100

74 14.6 11.0 16.6





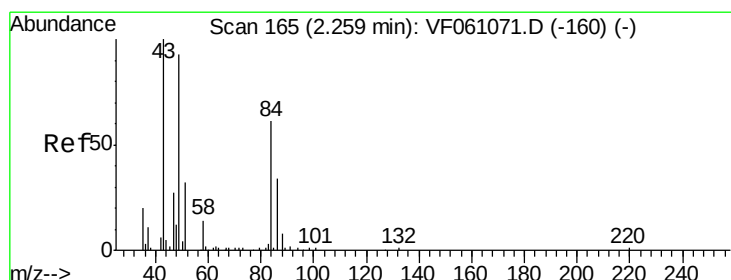
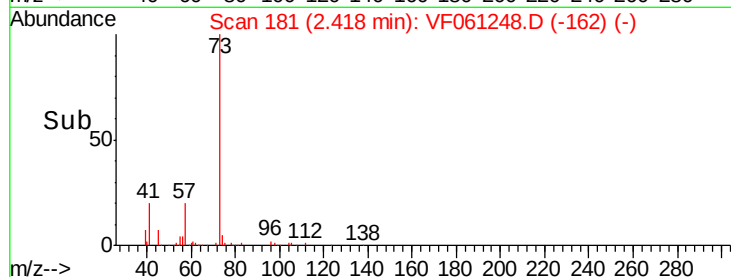
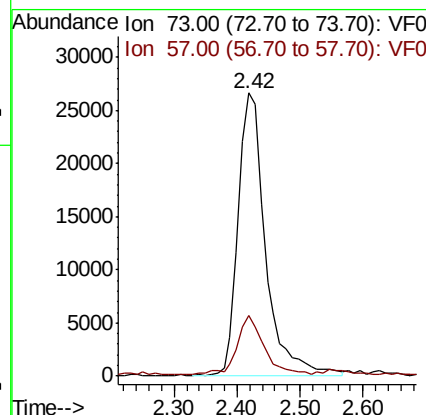
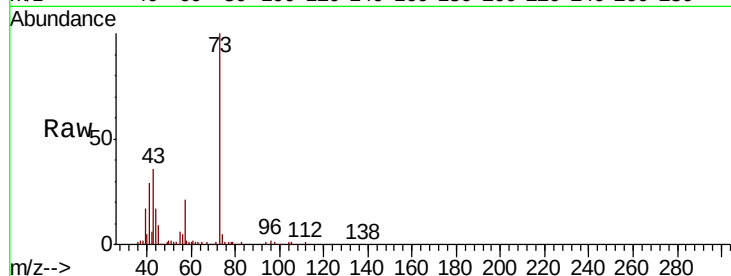
#19
Methyl tert-butyl Ether
Concen: 20.120 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	73	Resp	80613
Ion Ratio	100	Lower	Upper
73	100		
57	21.3	14.5	21.7

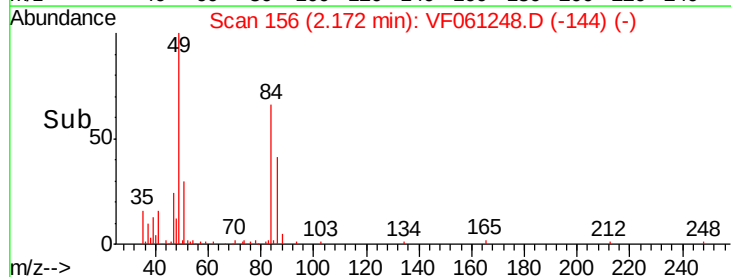
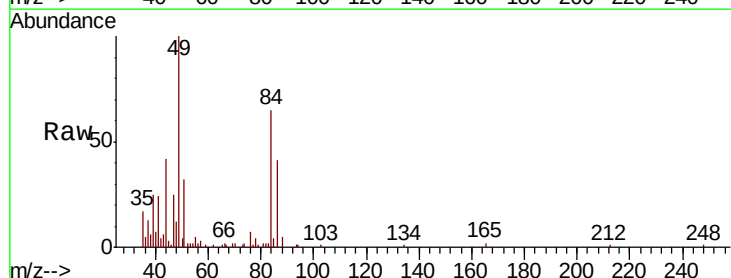
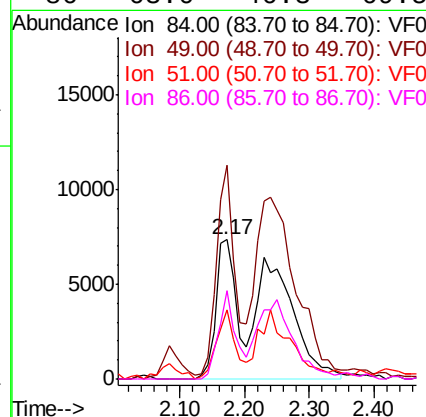
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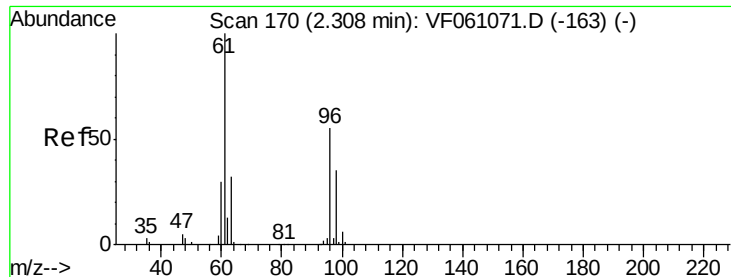
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#20
Methylene Chloride
Concen: 22.356 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.09 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	84	Resp	41791
Ion Ratio	100	Lower	Upper
84	100		
49	153.4	129.4	194.2
51	49.7	44.0	66.0
86	63.0	46.3	69.5





#21

trans-1,2-Dichloroethene

Concen: 19.433 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

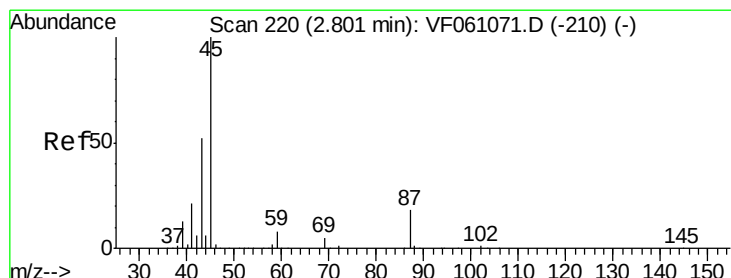
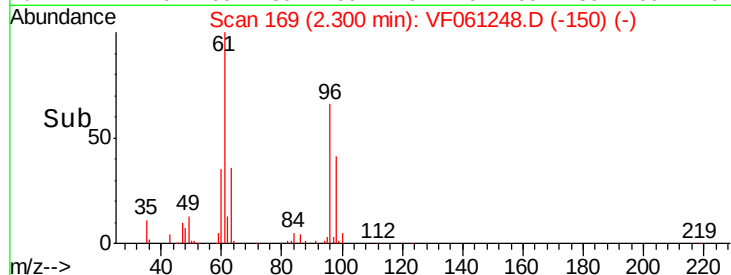
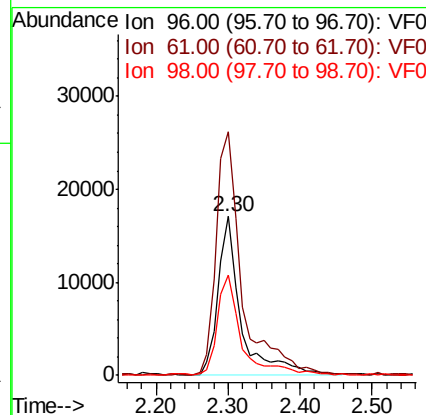
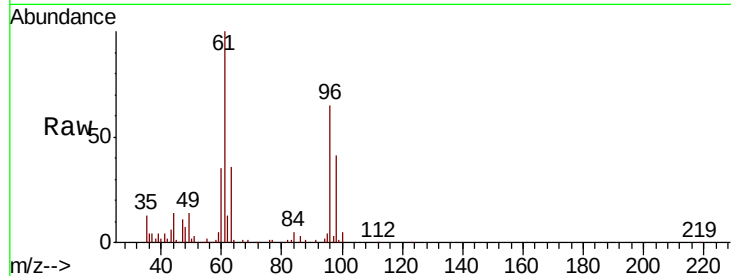
ClientSampleId :

VF0102SBS01

Tot Ion:	96	Resp:	37517
Ion	Ratio	Lower	Upper
96	100		
61	153.5	146.0	219.0
98	63.1	51.6	77.4

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#22

Diisopropyl ether

Concen: 21.866 ug/l

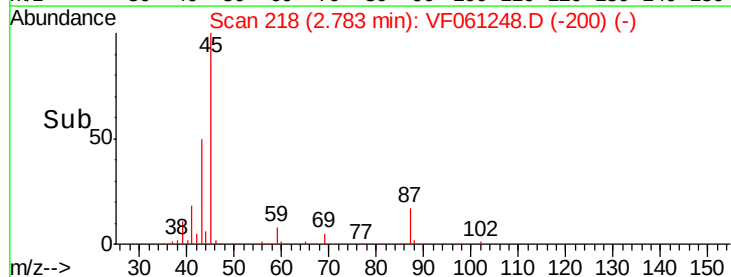
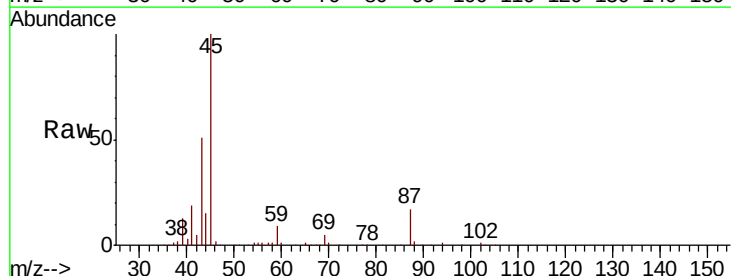
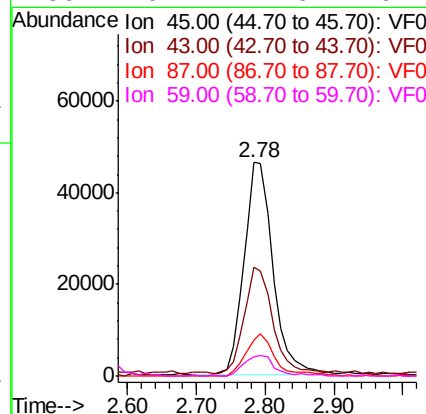
RT: 2.78 min Scan# 218

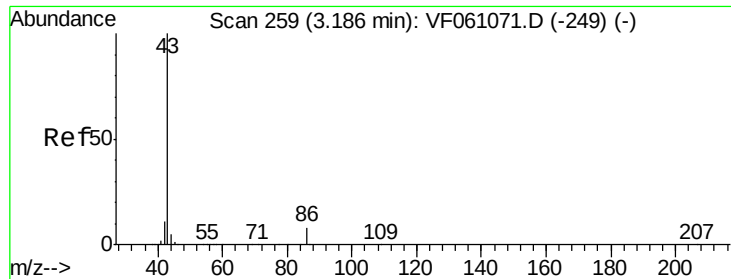
Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	45	Resp:	136815
Ion	Ratio	Lower	Upper
45	100		
43	50.8	42.2	63.2
87	16.9	14.6	22.0
59	9.1	7.0	10.4





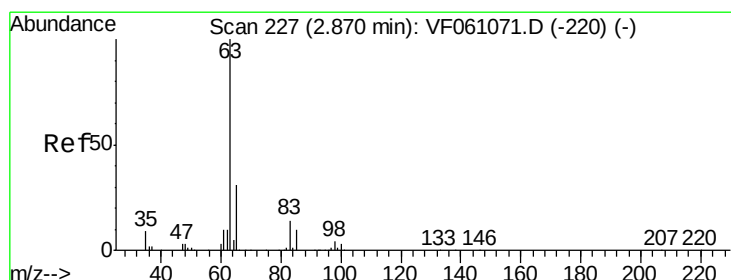
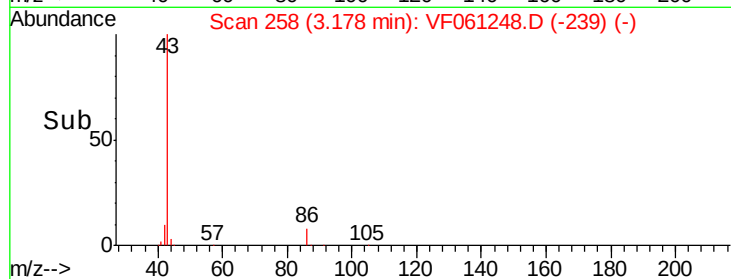
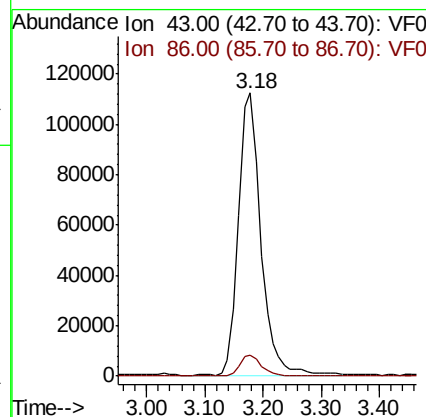
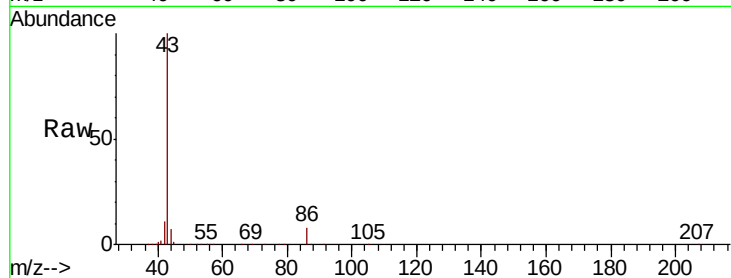
#23
 Vinyl Acetate
 Concen: 104.785 ug/l
 RT: 3.18 min Scan# 258
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Tot Ion	43	Resp	302466
Ion Ratio	100	Lower	Upper
43	100		
86	7.6	6.3	9.5

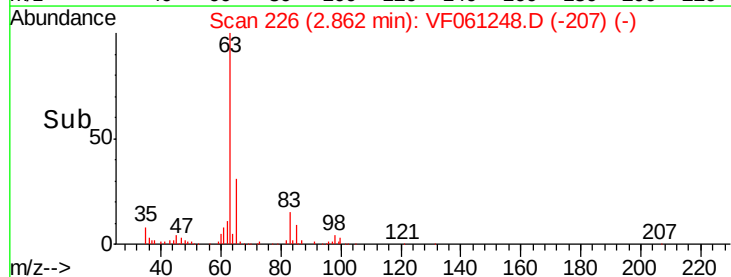
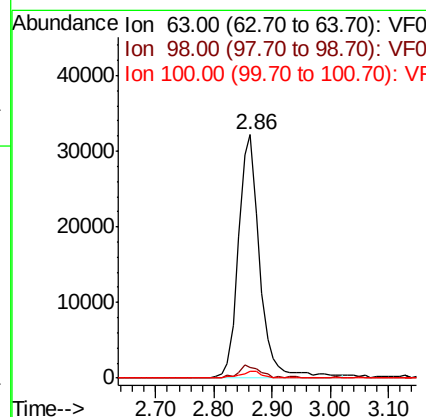
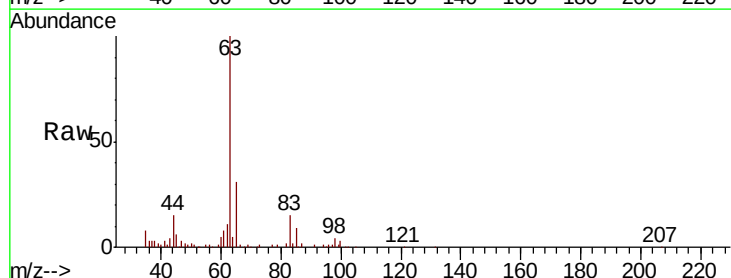
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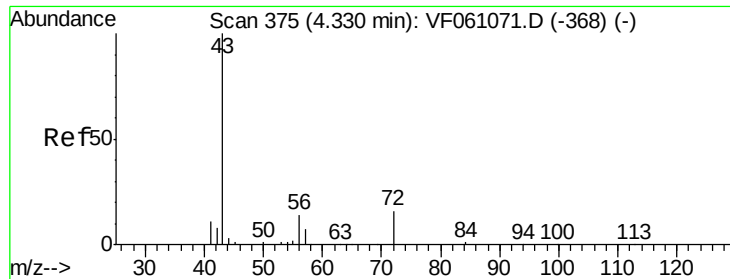
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#24
 1,1-Dichloroethane
 Concen: 22.226 ug/l
 RT: 2.86 min Scan# 226
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Tgt Ion	63	Resp	82397
Ion Ratio	100	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.7	1.7	5.1





#25

2-Butanone

Concen: 106.042 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 43 Resp: 90548

Ion Ratio Lower Upper

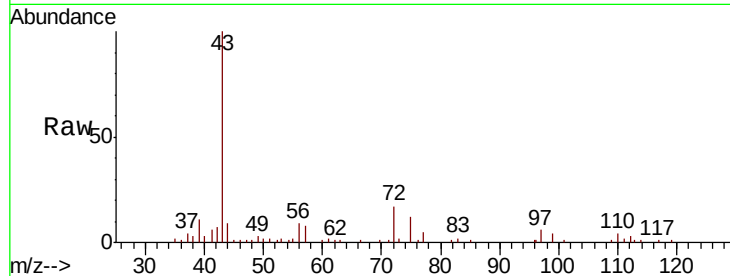
43 100

72 16.6 15.6 23.4

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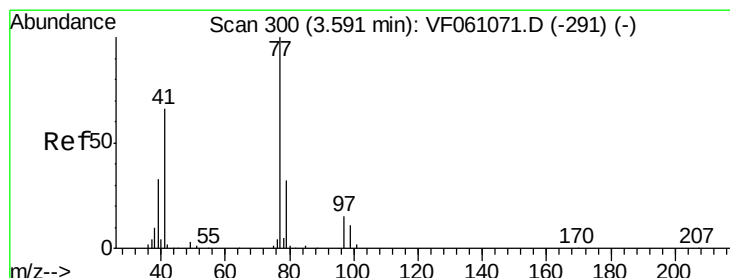
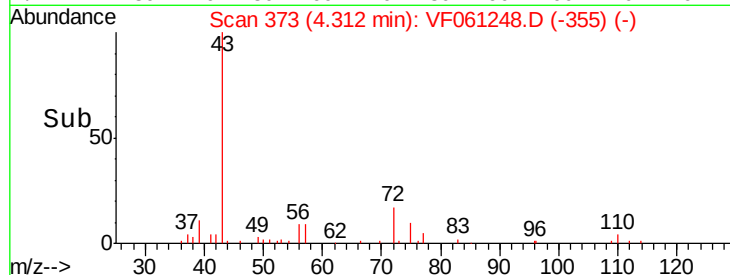
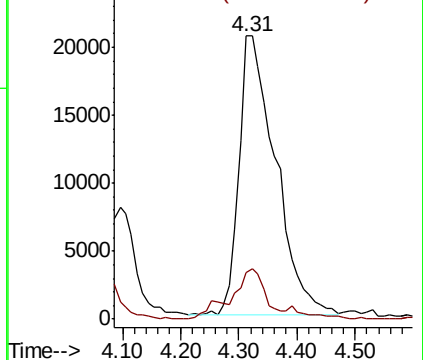
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 23.563 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.02 min

Lab File: VF061248.D

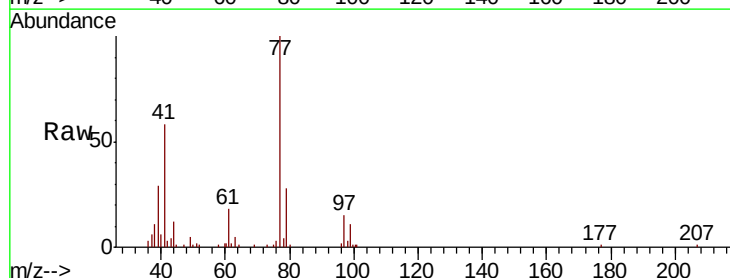
Acq: 2 Jan 2019 12:16

Tgt Ion: 77 Resp: 50131

Ion Ratio Lower Upper

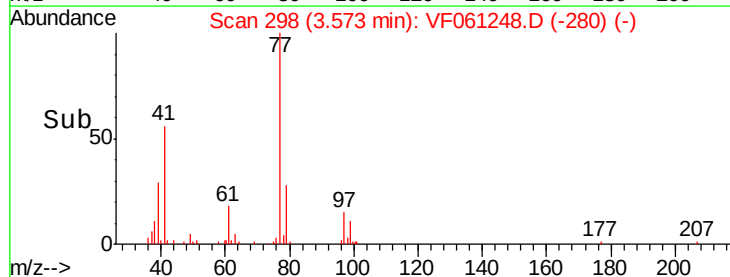
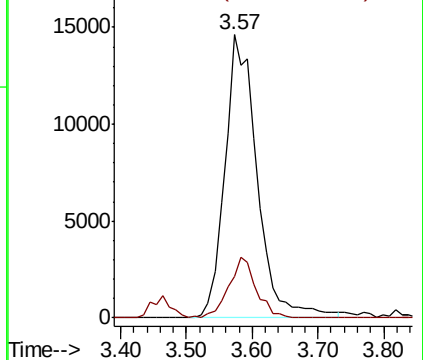
77 100

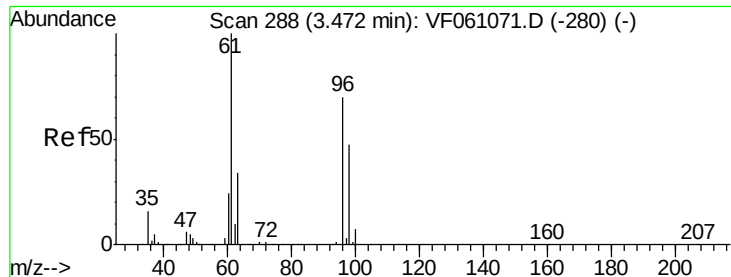
97 14.5 8.2 24.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

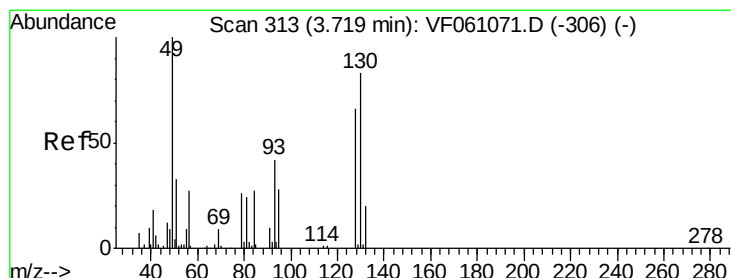
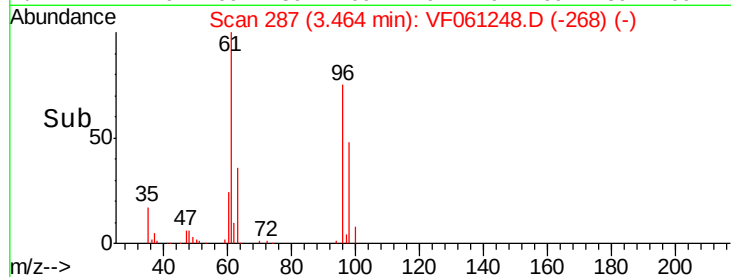
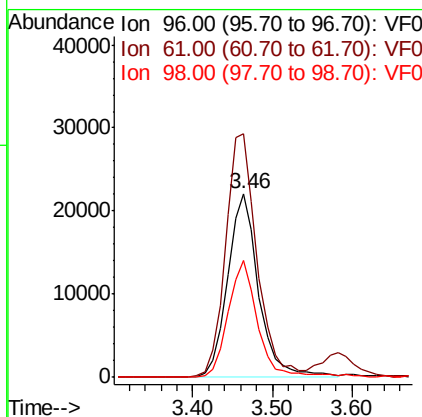
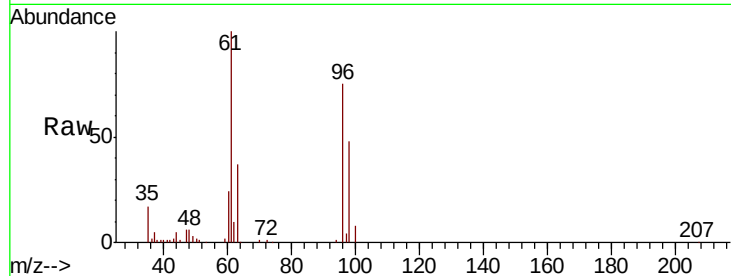
cis-1,2-Dichloroethene
Concen: 20.321 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	60060		
61	132.5		0.0	287.8
98	63.7		0.0	134.2

Manual Integrations
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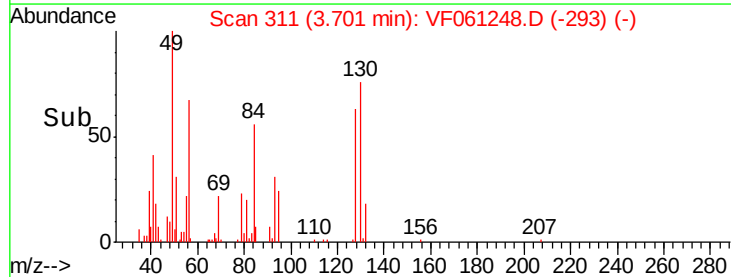
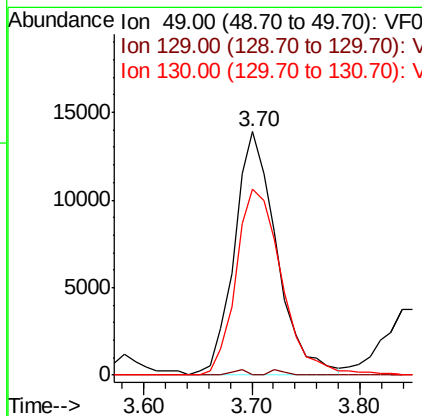
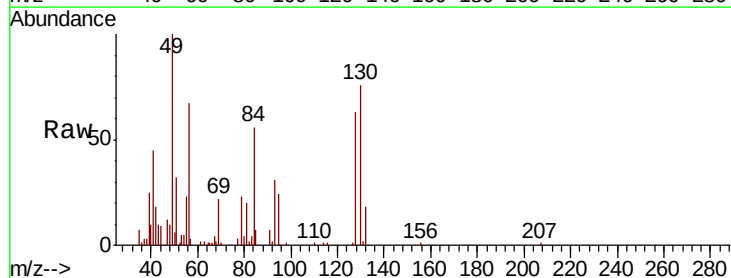
MMDadoda
1/3/2019 3:08:17 PM

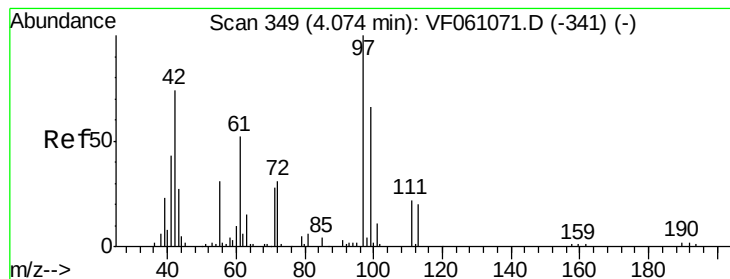


#28

Bromochloromethane
Concen: 20.132 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	37869		
129	0.0		0.0	3.6
130	76.2		65.8	98.6





#29

Tetrahydrofuran

Concen: 107.539 ug/l

RT: 4.06 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

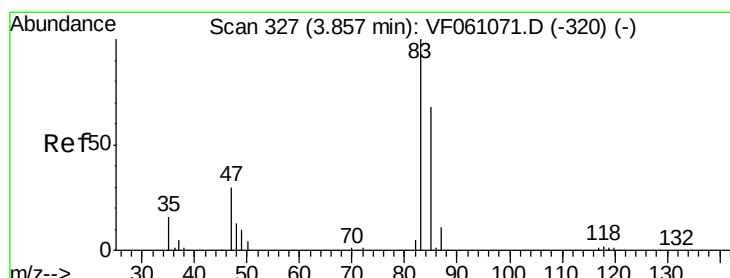
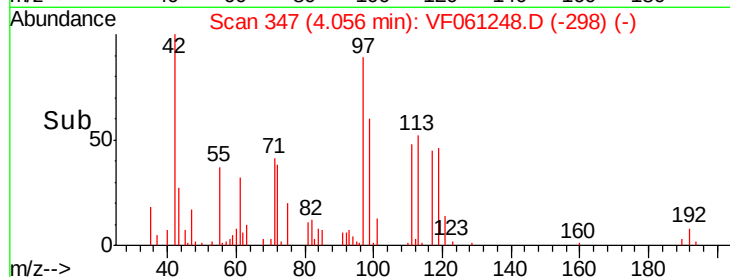
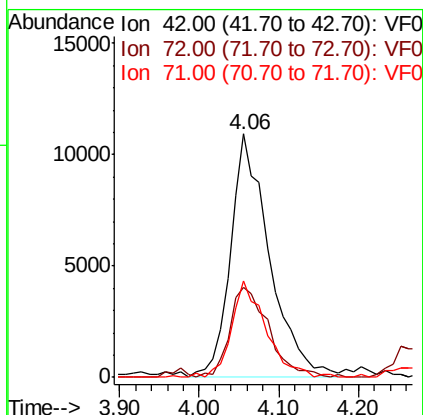
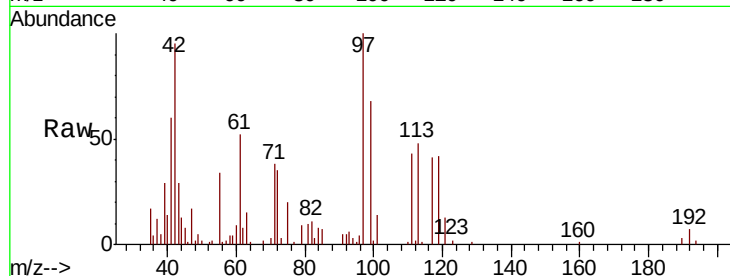
ClientSampleId :

VF0102SBS01

Tot Ion:	42	Resp:	37374
Ion	Ratio	Lower	Upper
42	100		
72	36.9	31.8	47.8
71	35.1	29.7	44.5

Manual Integrations
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#30

Chloroform

Concen: 19.978 ug/l

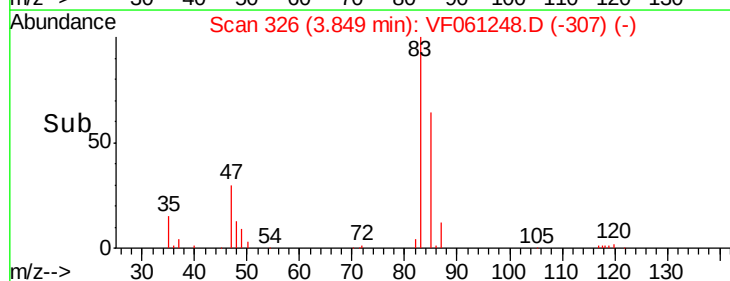
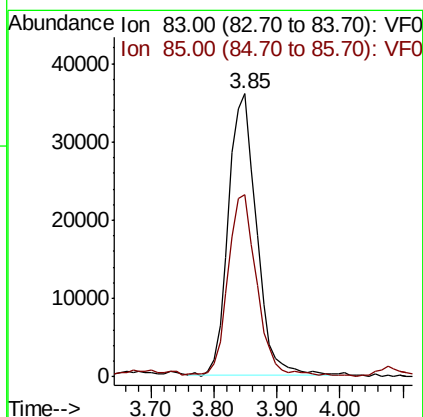
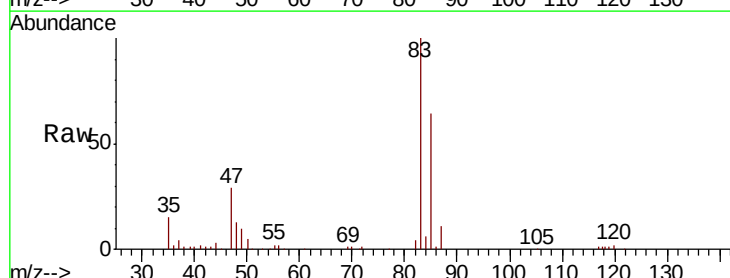
RT: 3.85 min Scan# 326

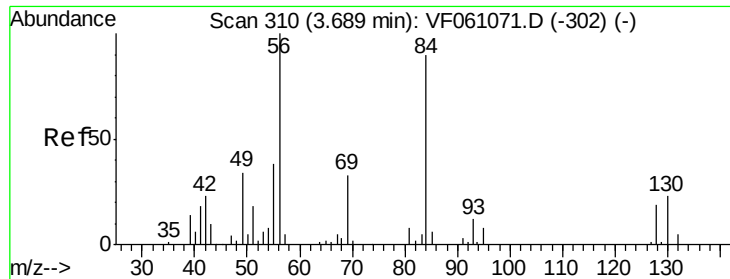
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	83	Resp:	111053
Ion	Ratio	Lower	Upper
83	100		
85	64.3	54.5	81.7





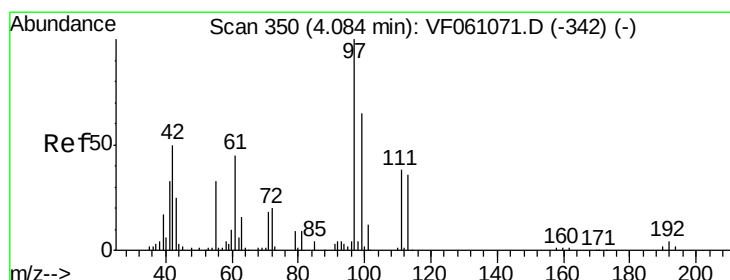
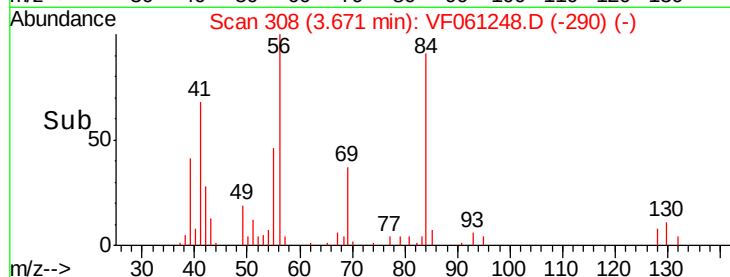
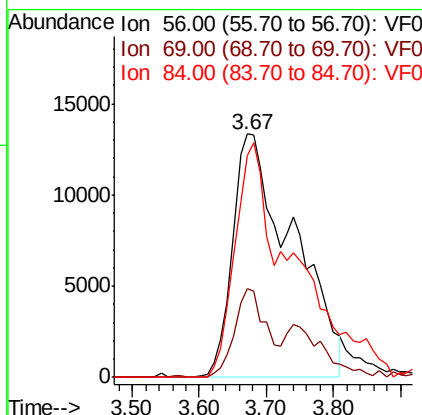
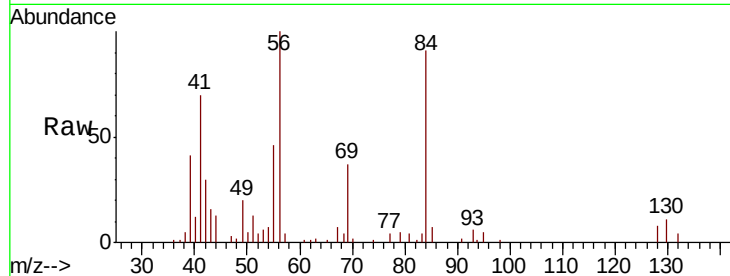
#31
Cyclohexane
Concen: 21.589 ug/l m
RT: 3.67 min Scan# 308
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.7	26.0	39.0
84	91.2	71.4	107.2

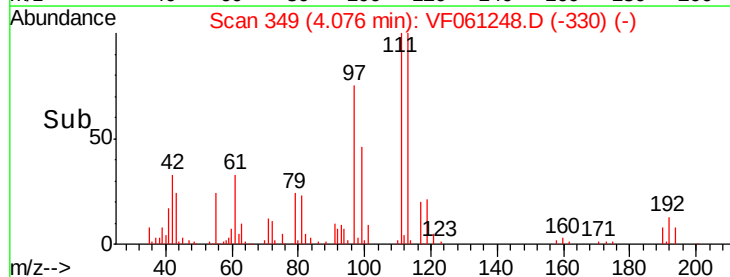
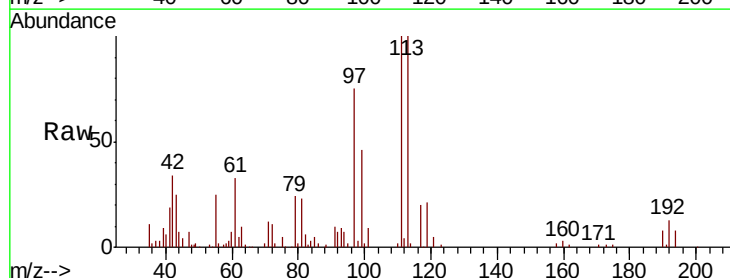
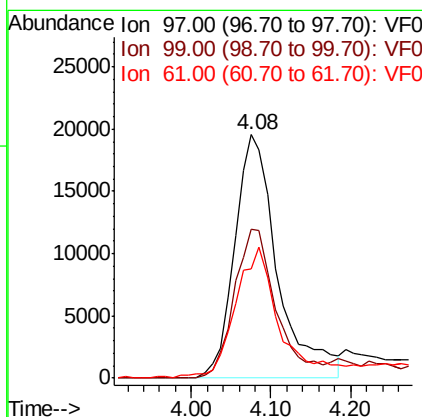
Manual Integrations
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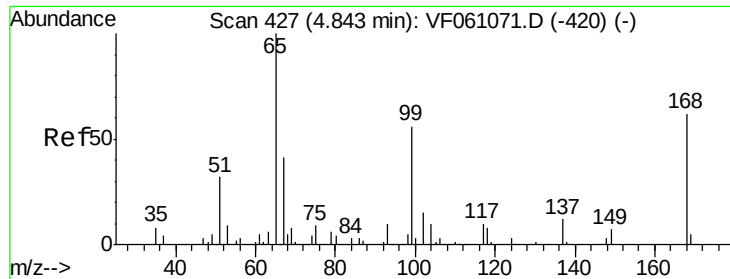
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1/3/2019 3:08:17 PM



#32
1,1,1-Trichloroethane
Concen: 21.954 ug/l
RT: 4.08 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.2	51.6	77.4
61	44.7	36.2	54.2





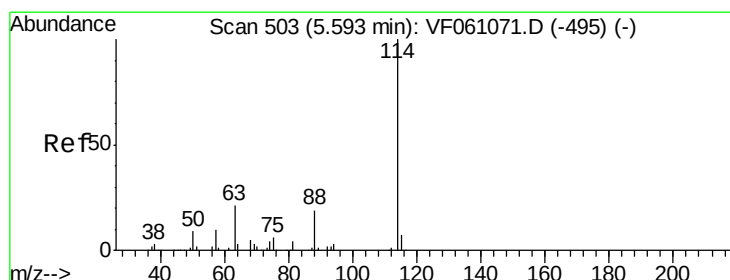
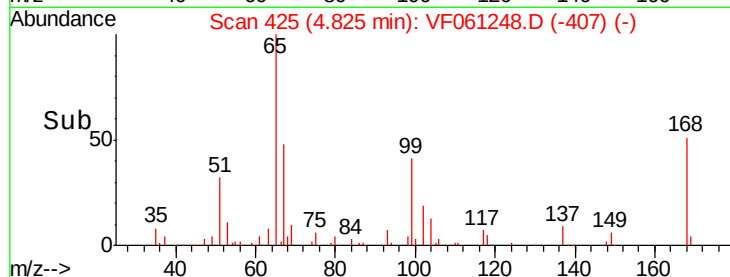
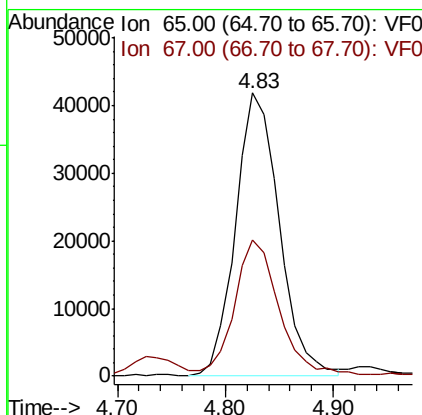
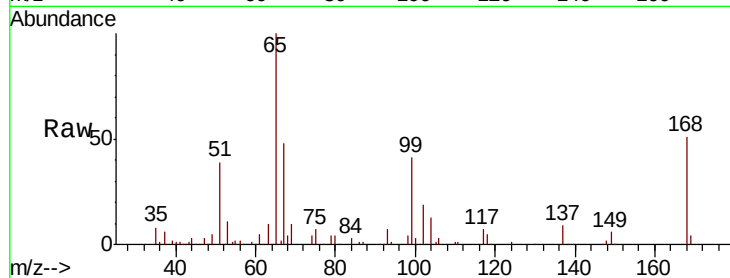
#33
 1,2-Dichloroethane-d4
 Concen: 45.018 ug/l
 RT: 4.83 min Scan# 425
 Delta R.T. -0.02 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	118563		
67	48.0	0.0	94.6	

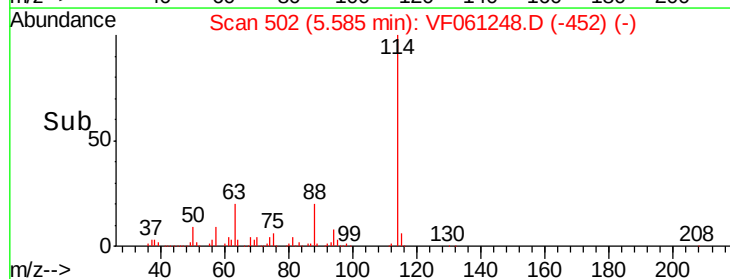
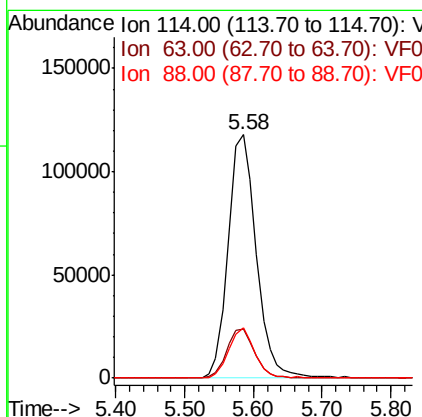
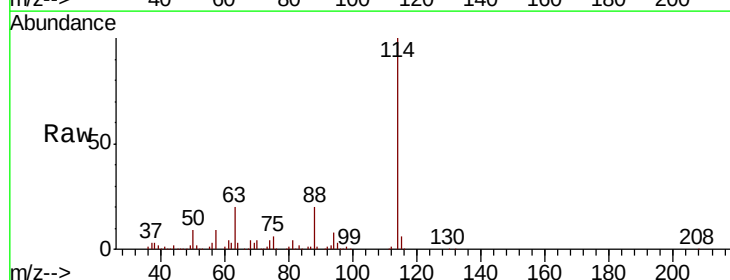
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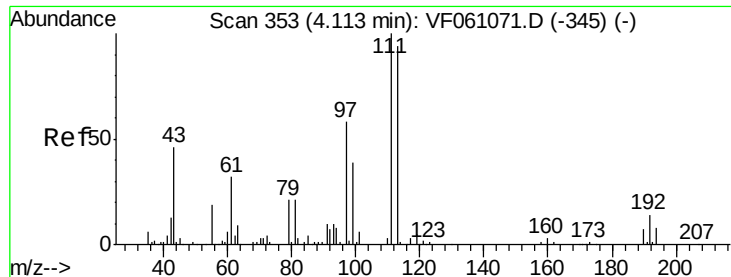
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 1/3/2019 3:08:17 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	334357		
63	20.1	0.0	41.6	
88	20.5	0.0	38.0	





#35

Dibromofluoromethane

Concen: 54.186 ug/l

RT: 4.10 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

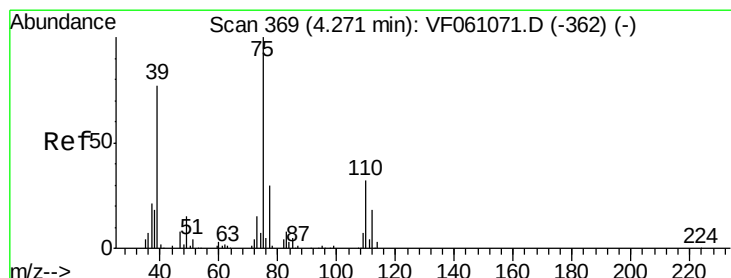
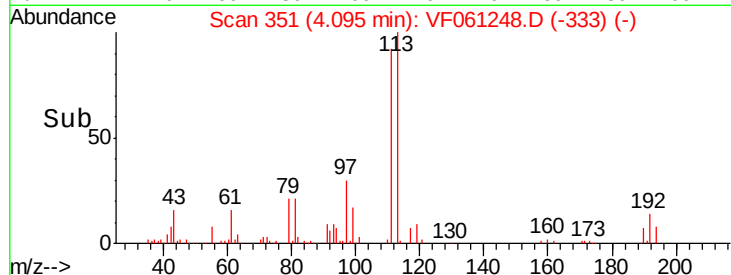
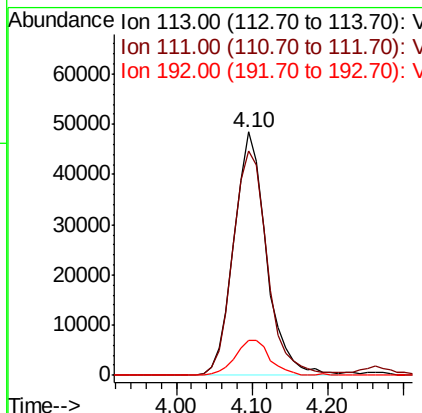
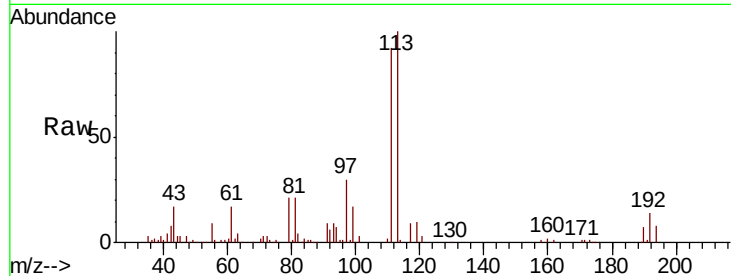
ClientSampleId :

VF0102SBS01

Tot Ion:	113	Resp:	145130
Ion Ratio	Lower	Upper	
113	100		
111	92.2	85.2	127.8
192	14.3	12.8	19.2

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 20.523 ug/l

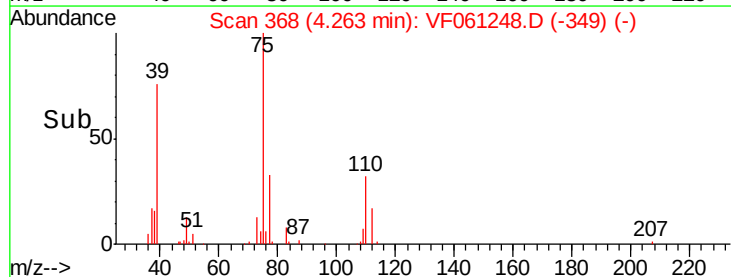
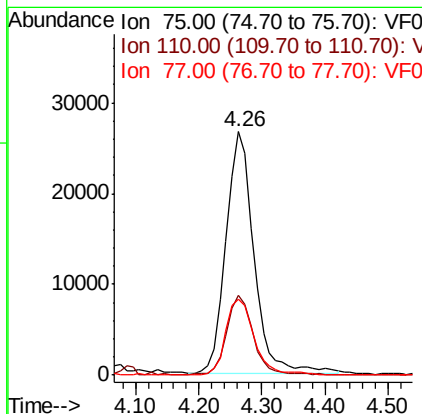
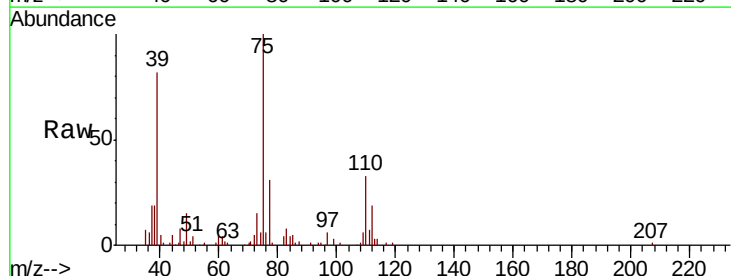
RT: 4.26 min Scan# 368

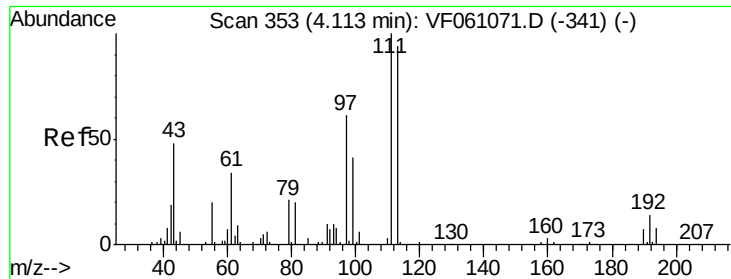
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	75	Resp:	82830
Ion Ratio	Lower	Upper	
75	100		
110	32.6	16.1	48.2
77	31.4	24.5	36.7





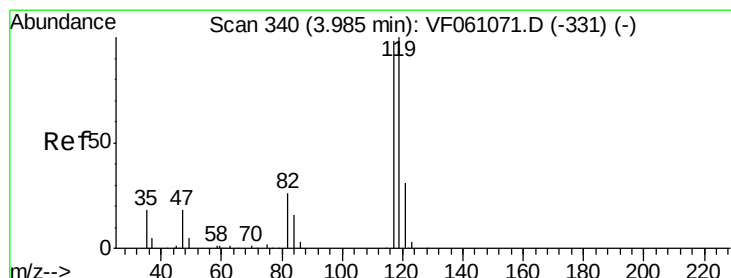
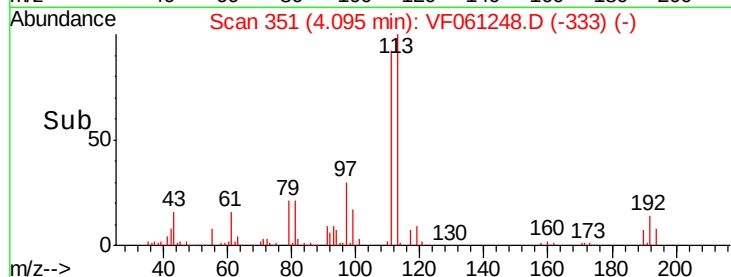
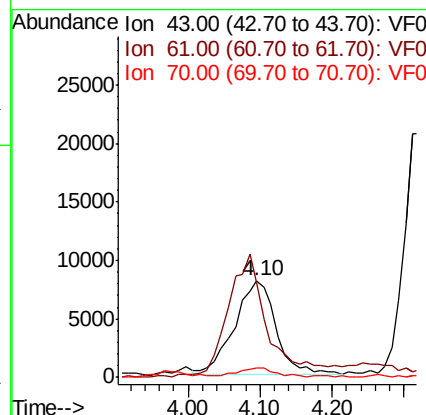
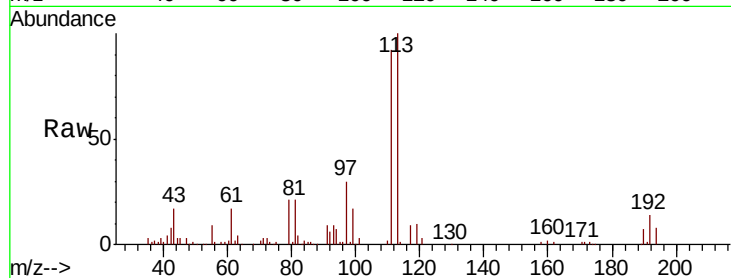
#37
Ethyl Acetate
Concen: 18.361 ug/l
RT: 4.10 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	97.9	56.6	84.8#
70	10.3	6.3	9.5#

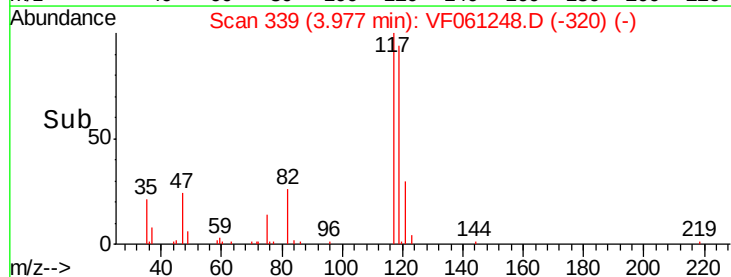
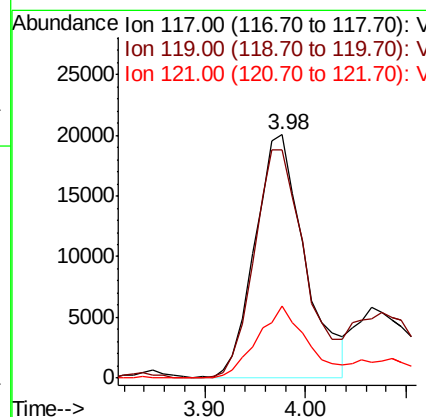
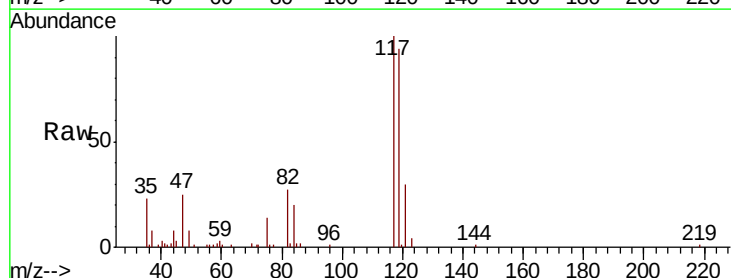
Manual Integrations
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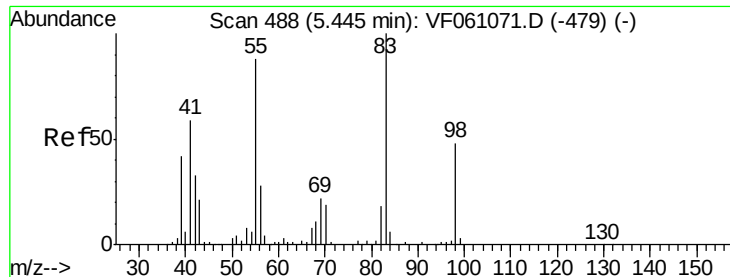
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#38
Carbon Tetrachloride
Concen: 22.476 ug/l
RT: 3.98 min Scan# 339
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	82.1	123.1
121	29.5	25.5	38.3





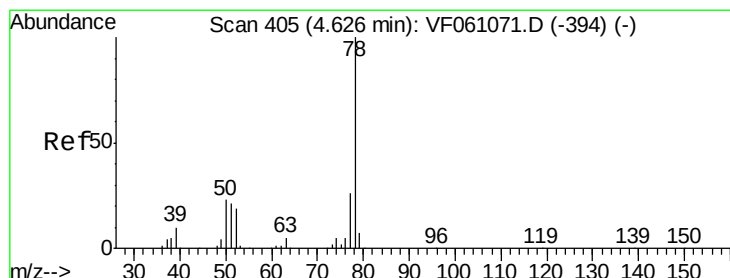
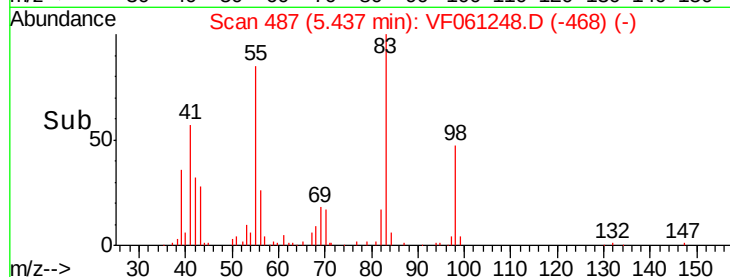
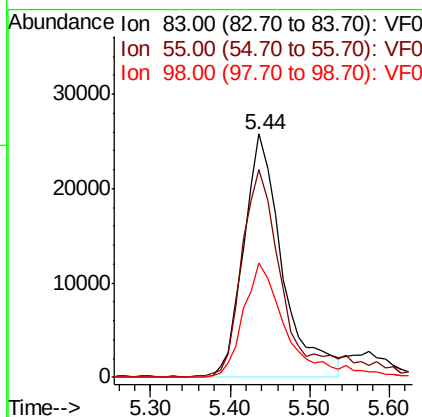
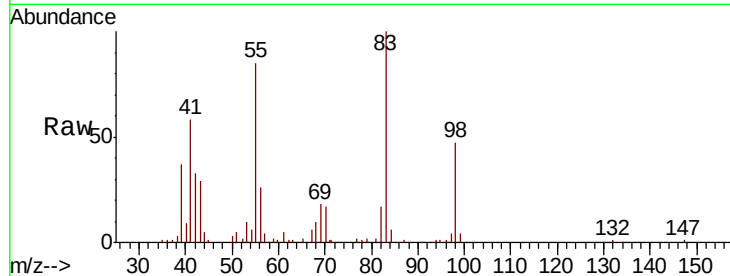
#39
Methylvlcyclohexane
Concen: 23.967 ug/l
RT: 5.44 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.1	70.6	105.8
98	47.1	38.5	57.7

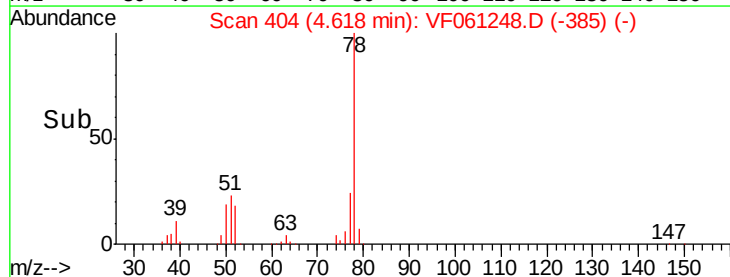
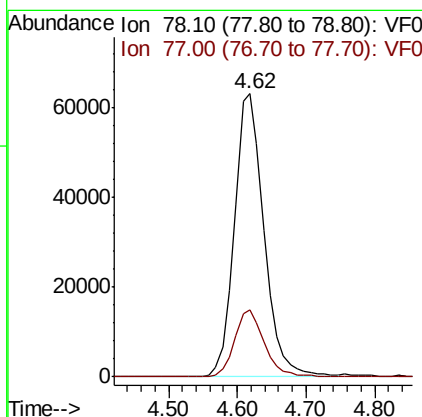
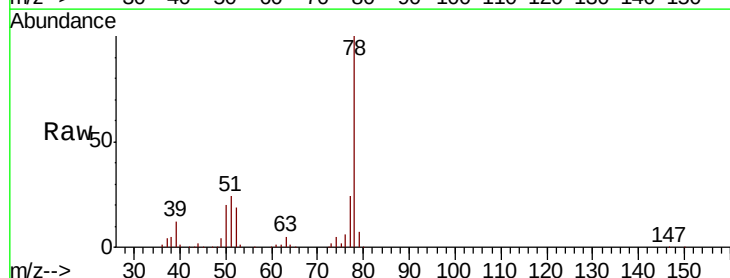
Manual Integrations
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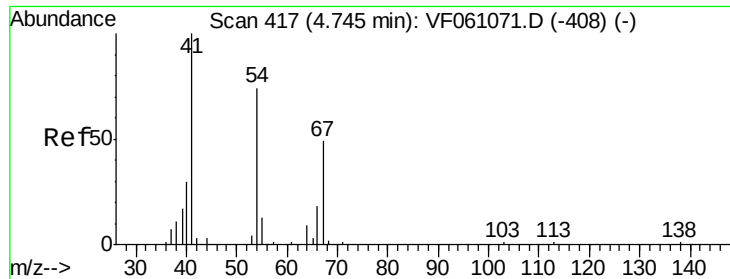
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#40
Benzene
Concen: 21.644 ug/l
RT: 4.62 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	20.7	31.1





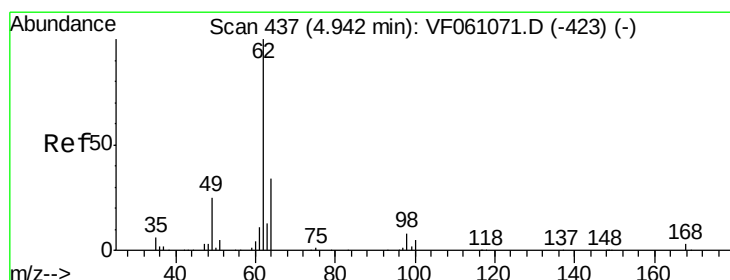
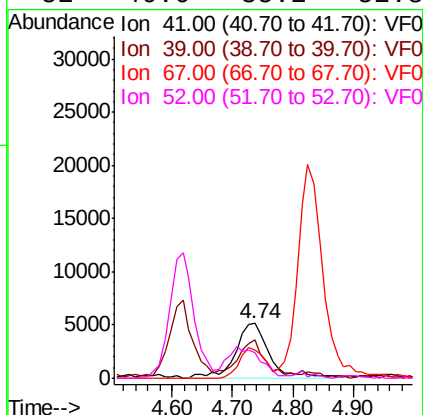
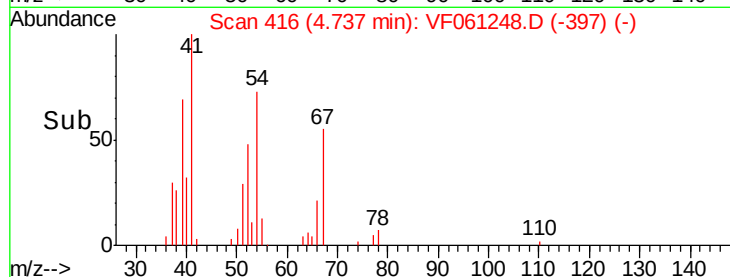
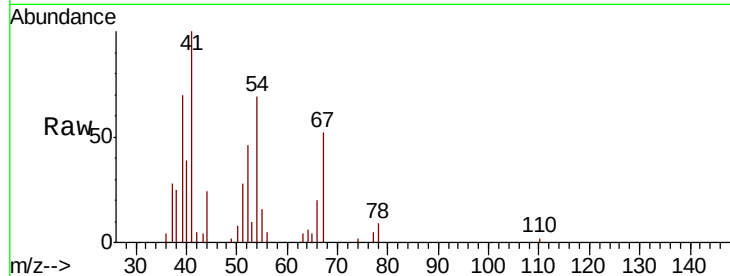
#41
Methacrylonitrile
Concen: 23.861 ug/l
RT: 4.74 min Scan# 416
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	70.3	45.7	68.5#	
67	52.2	38.9	58.3	
52	46.0	35.2	52.8	

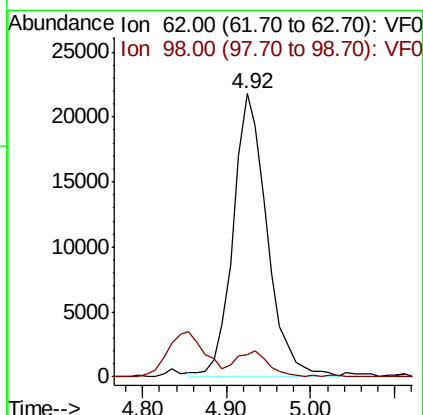
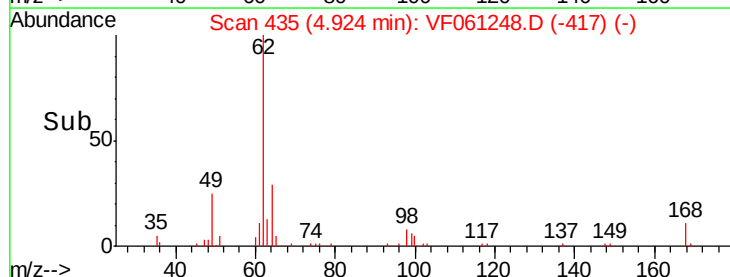
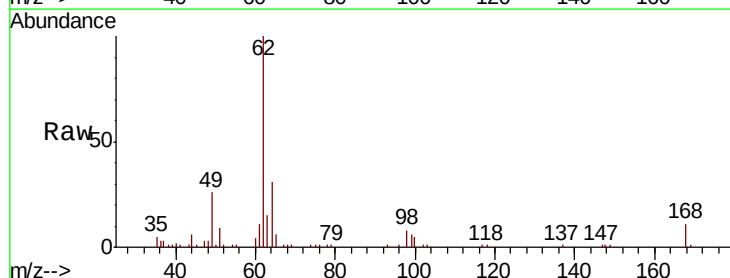
Manual Integrations
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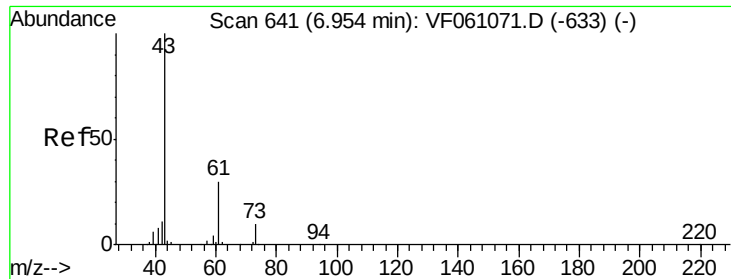
MMDadoda
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#42
1,2-Dichloroethane
Concen: 18.602 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.7	0.0	16.6	





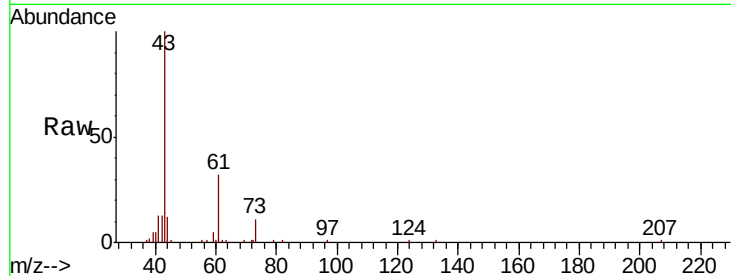
#43
Isopropyl Acetate
Concen: 19.477 ug/l
RT: 6.95 min Scan# 640
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.5	23.8	35.8
87	0.0	0.0	0.0

Manual Integrations
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1/3/2019 3:08:17 PM

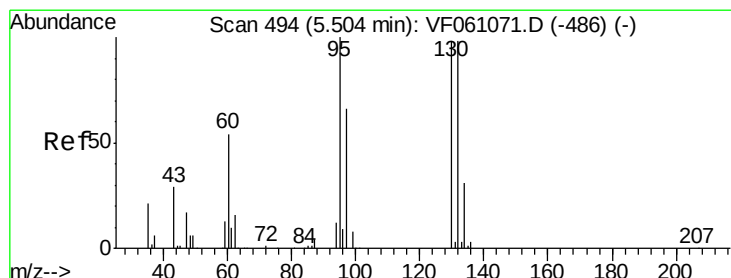
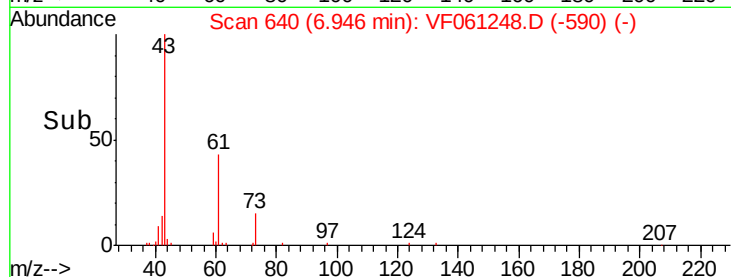
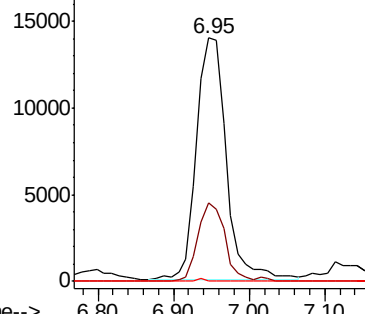


Abundance

Ion 43.00 (42.70 to 43.70): VF0

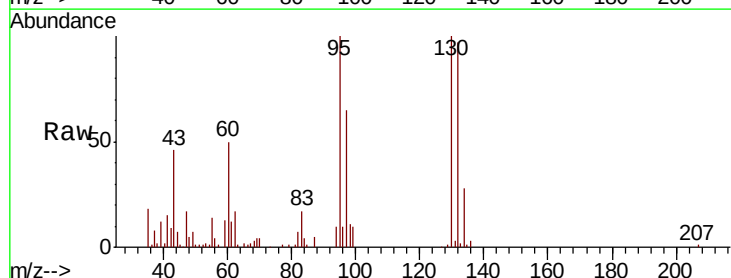
Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44
Trichloroethene
Concen: 23.131 ug/l
RT: 5.49 min Scan# 492
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

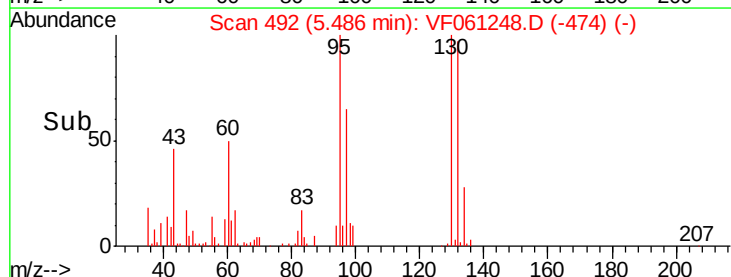
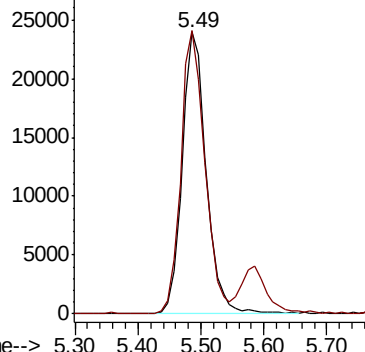
Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	205.2

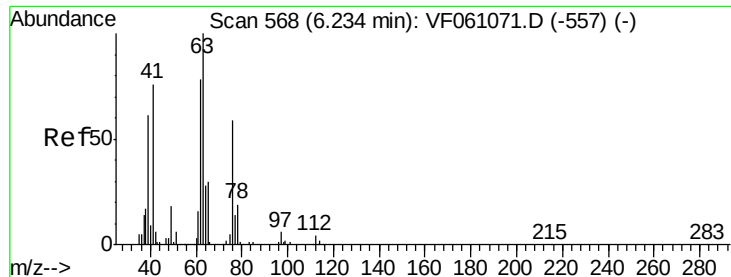


Abundance

Ion 129.90 (129.60 to 130.60): VF0

Ion 94.90 (94.60 to 95.60): VF0





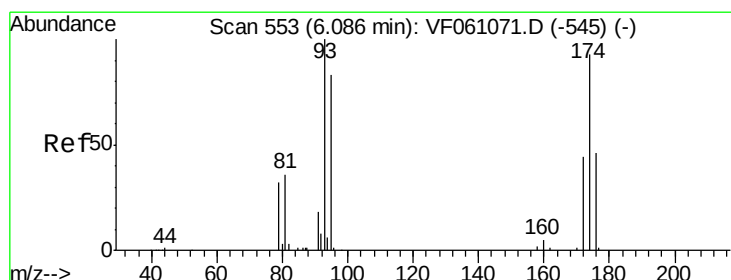
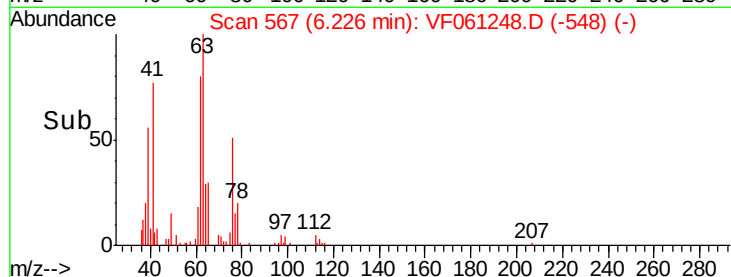
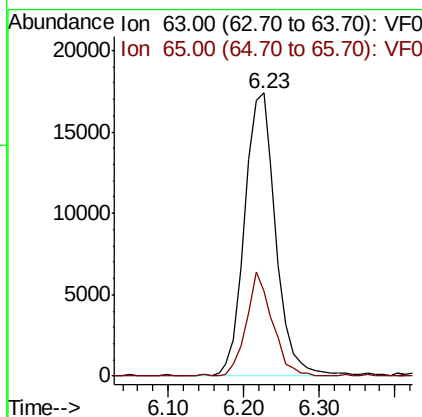
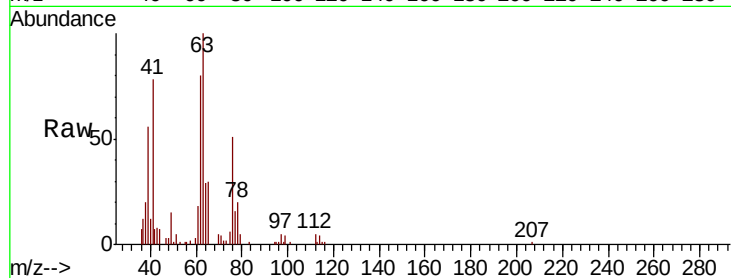
#45
1,2-Dichloropropane
Concen: 21.147 ug/l
RT: 6.23 min Scan# 567
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion: 63 Resp: 49935
Ion Ratio Lower Upper
63 100
65 29.8 24.4 36.6

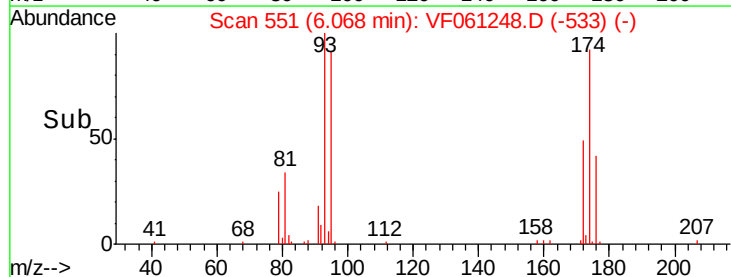
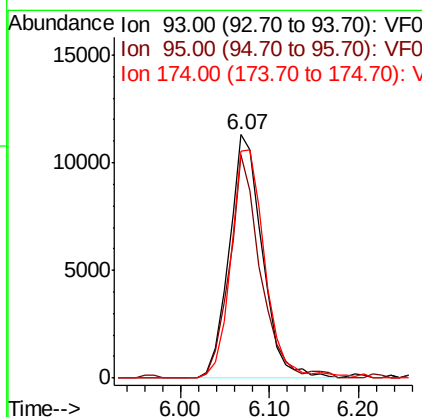
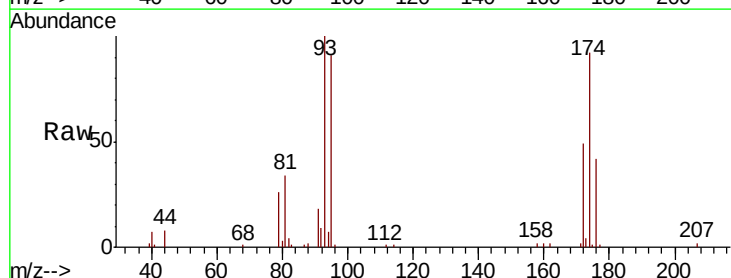
Manual Integrations
APPROVED

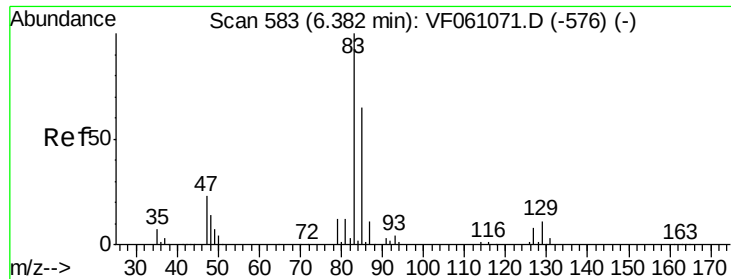
MMDadoda
1/3/2019 3:08:17 PM



#46
Dibromomethane
Concen: 19.147 ug/l
RT: 6.07 min Scan# 551
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion: 93 Resp: 29325
Ion Ratio Lower Upper
93 100
95 91.4 66.9 100.3
174 93.1 74.1 111.1





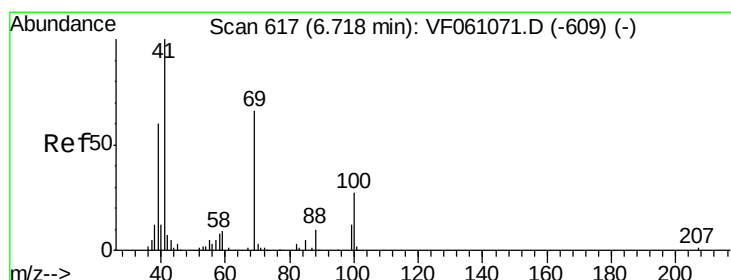
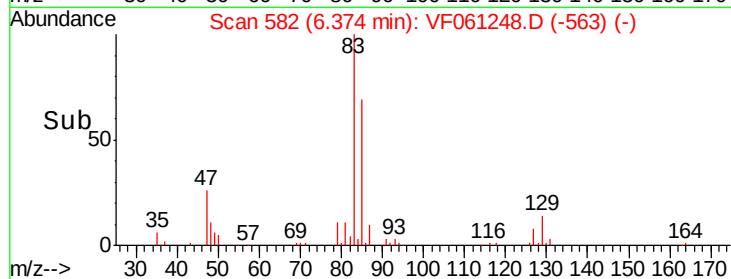
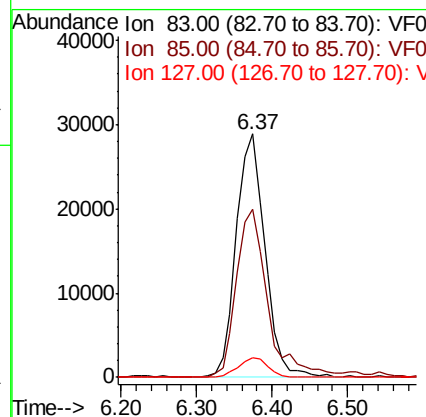
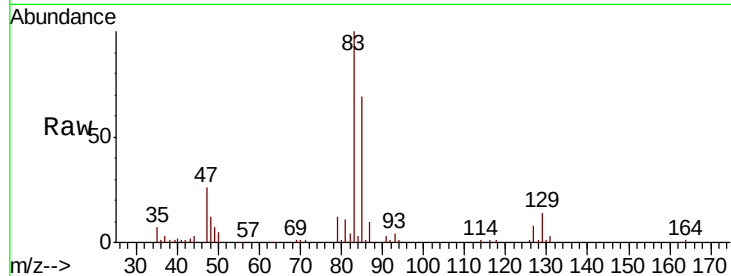
#47
Bromodichloromethane
Concen: 19.115 ug/l
RT: 6.37 min Scan# 582
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion:	83	Resp:	76063
Ion	Ratio	Lower	Upper
83	100		
85	68.9	52.2	78.4
127	8.1	6.1	9.1

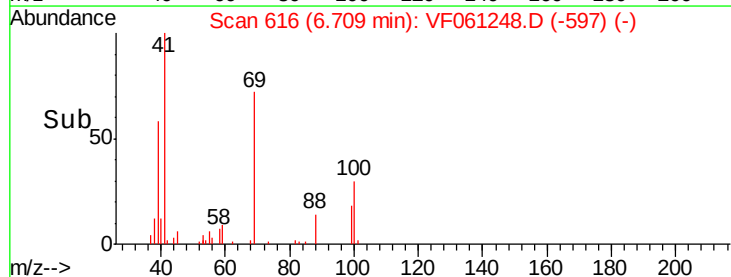
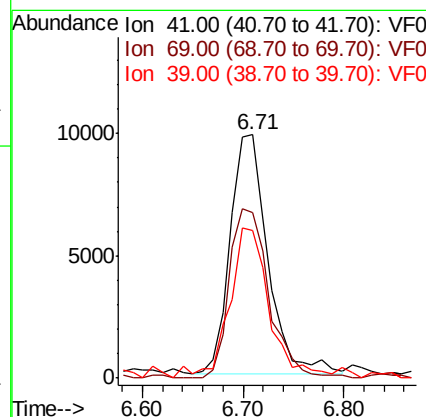
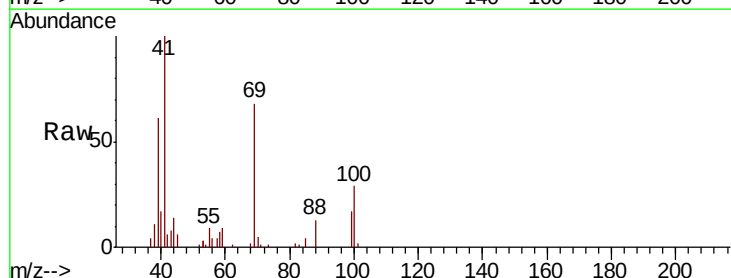
Manual Integrations
APPROVED

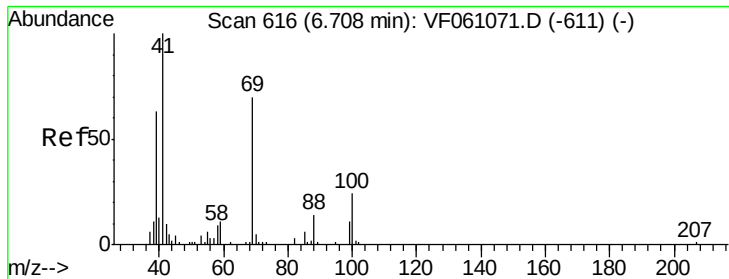
MMDadoda
1/3/2019 3:08:17 PM



#48
Methyl methacrylate
Concen: 18.780 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion:	41	Resp:	25549
Ion	Ratio	Lower	Upper
41	100		
69	68.1	52.7	79.1
39	60.7	47.8	71.6





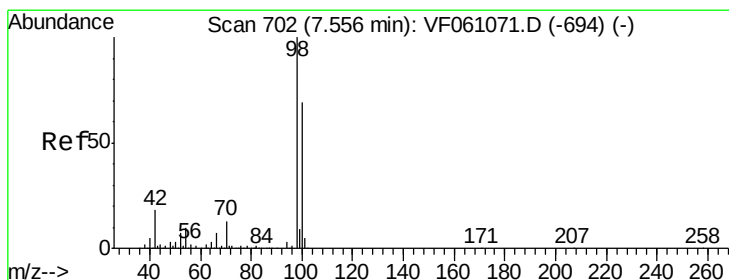
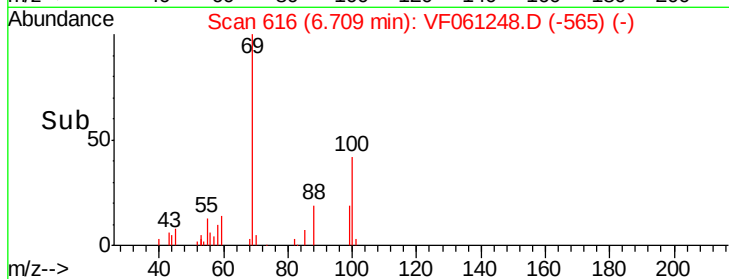
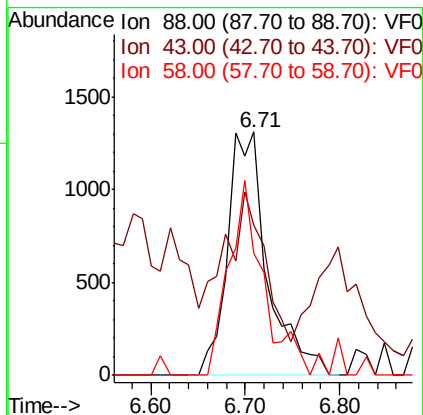
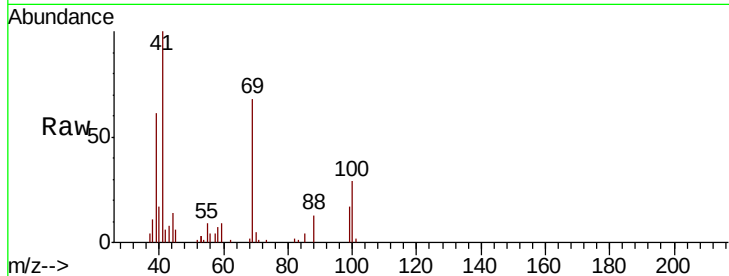
#49
1,4-Dioxane
Concen: 389.109 ug/l
RT: 6.71 min Scan# 616
Delta R.T. 0.00 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	3841		
43	61.9		33.3	49.9#
58	49.9		53.2	79.8#

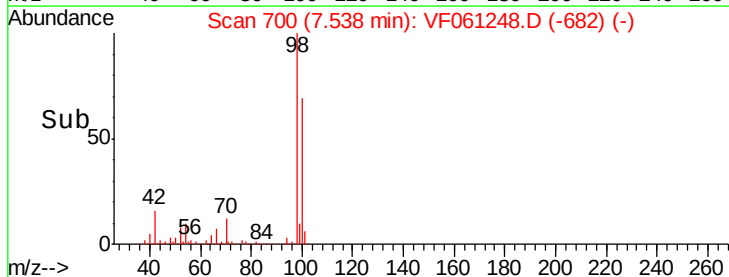
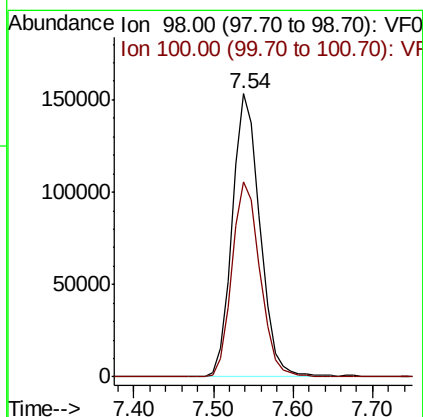
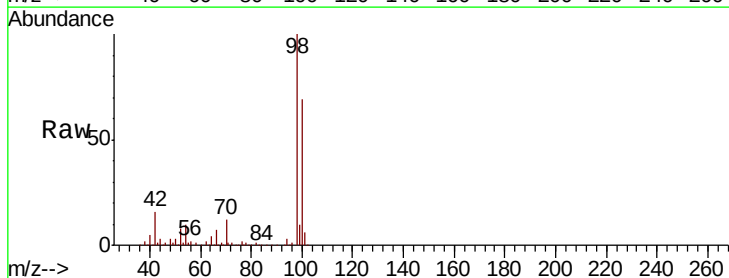
Manual Integrations
APPROVED

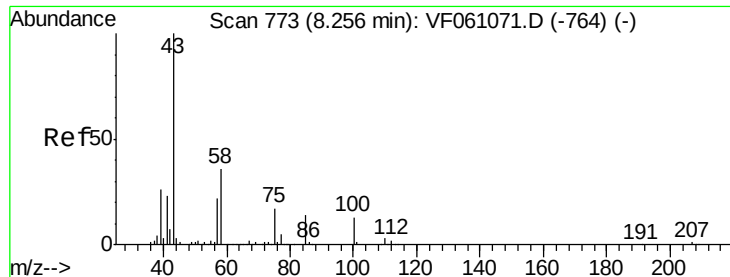
MMDadoda
1/3/2019 3:08:17 PM



#50
Toluene-d8
Concen: 49.063 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	372398		
100	69.1		55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 106.375 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 43 Resp: 142169

Ion Ratio Lower Upper

43 100

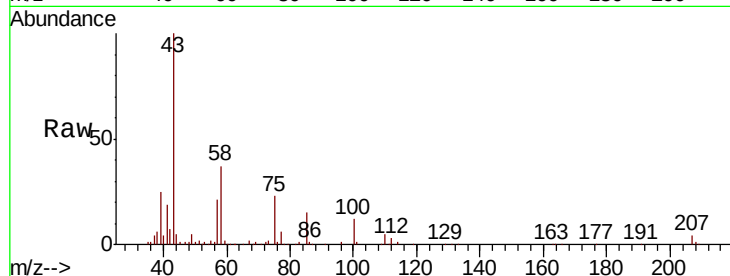
58 36.5 29.1 43.7

Manual Integrations

APPROVED

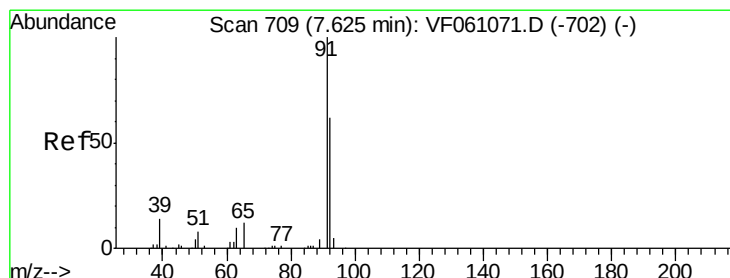
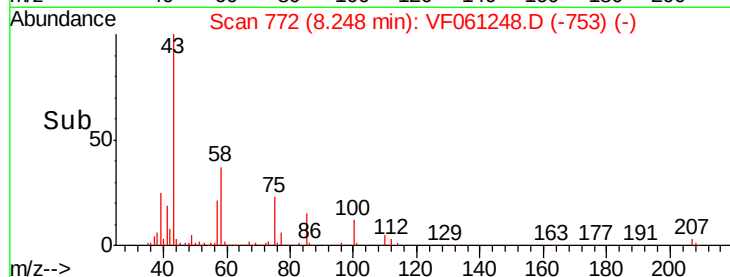
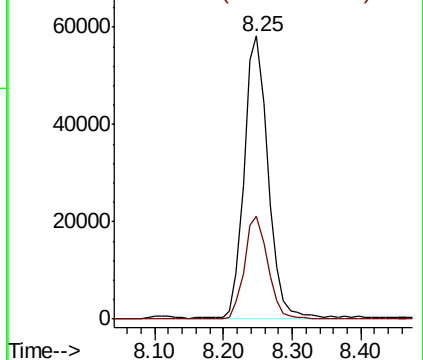
MMDadoda

1/3/2019 3:08:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.303 ug/l

RT: 7.61 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF061248.D

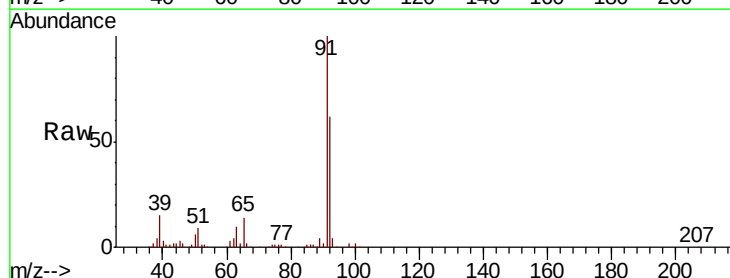
Acq: 2 Jan 2019 12:16

Tgt Ion: 92 Resp: 122391

Ion Ratio Lower Upper

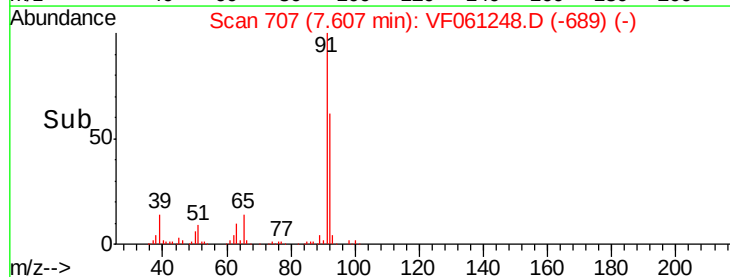
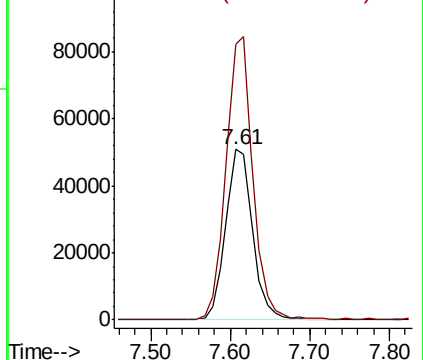
92 100

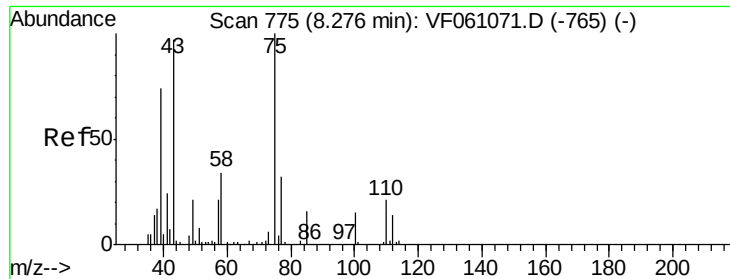
91 161.8 128.8 193.2



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: 19.729 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 75 Resp: 63334

Ion Ratio Lower Upper

75 100

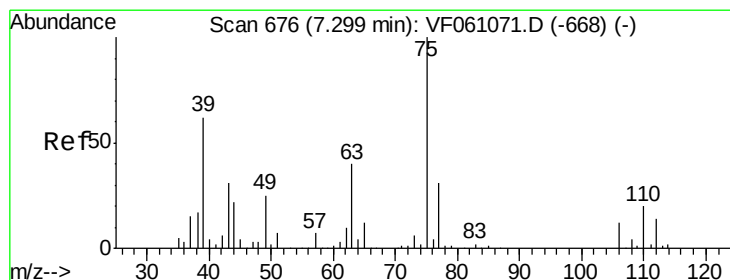
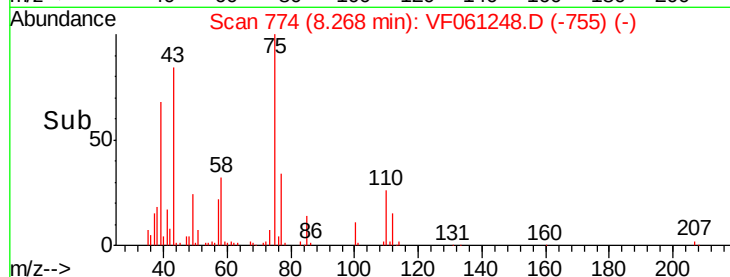
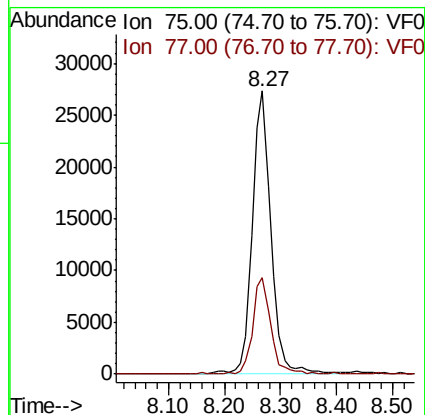
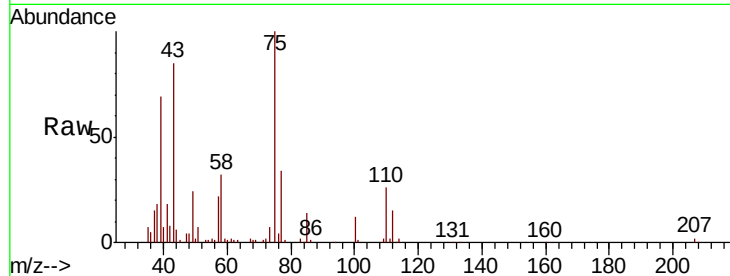
77 33.9 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.885 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

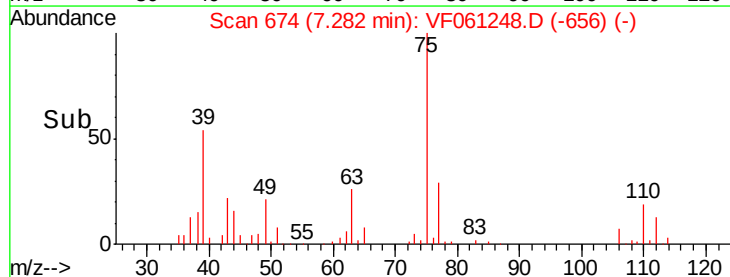
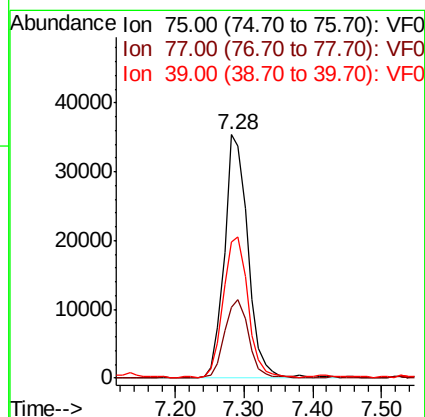
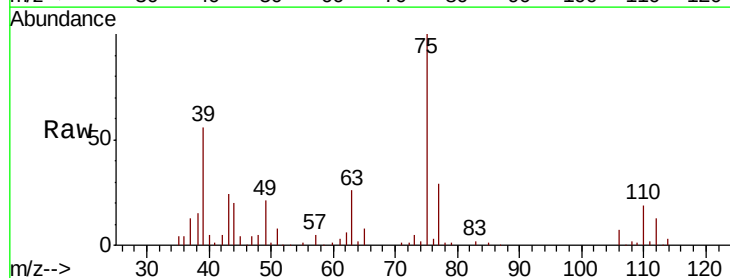
Tgt Ion: 75 Resp: 84146

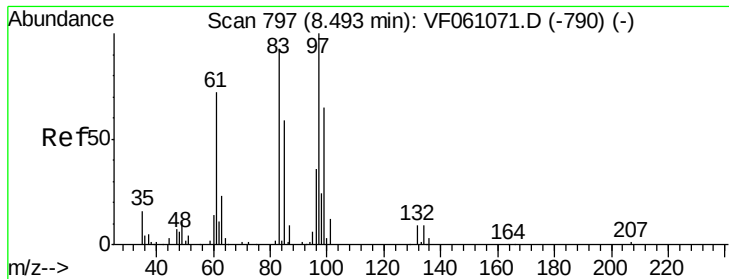
Ion Ratio Lower Upper

75 100

77 29.3 25.0 37.4

39 55.8 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 19.662 ug/l

RT: 8.48 min Scan# 795

Delta R.T. -0.02 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

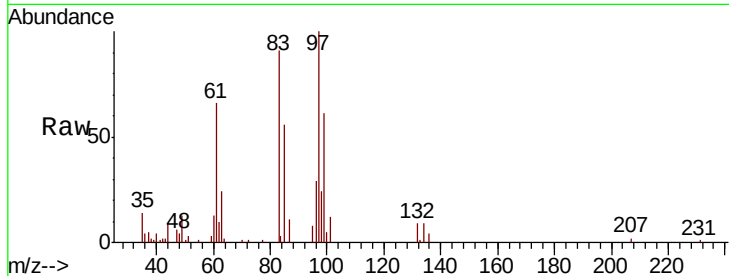
ClientSampleId :

VF0102SBS01

Tot Ion:	97	Resp:	33864
Ion	Ratio	Lower	Upper
97	100		
83	90.8	75.0	112.4
85	56.3	47.5	71.3
99	60.9	51.9	77.9

Manual Integrations
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1/3/2019 3:08:17 PM

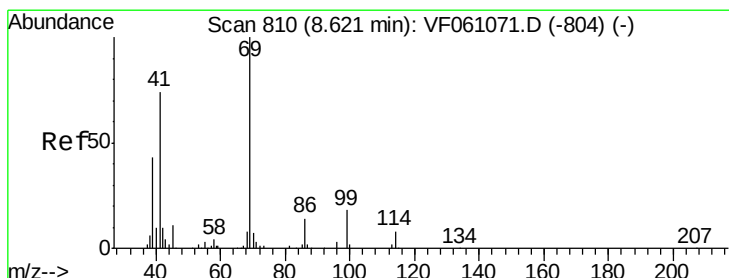
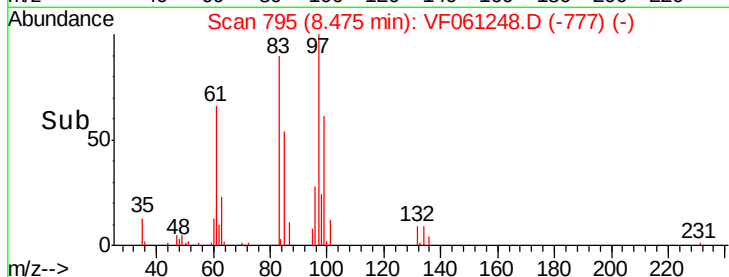
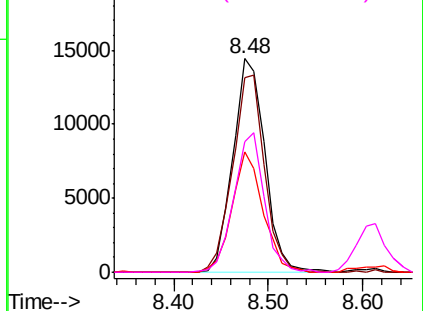


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 18.734 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.01 min

Lab File: VF061248.D

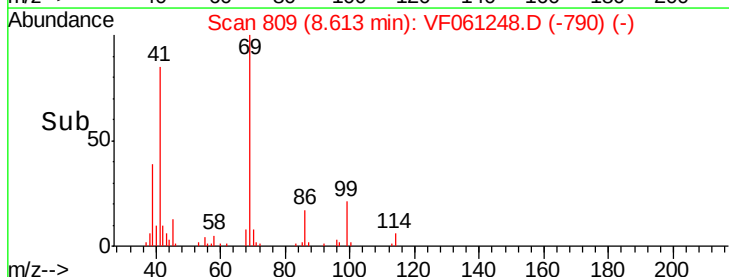
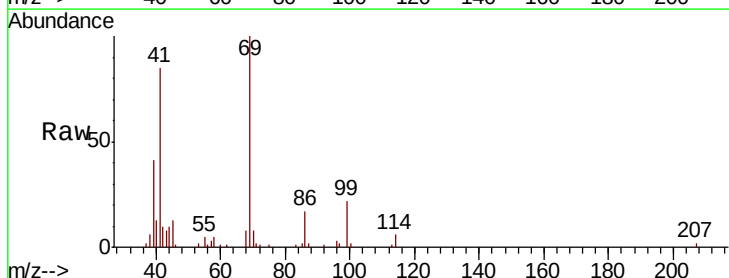
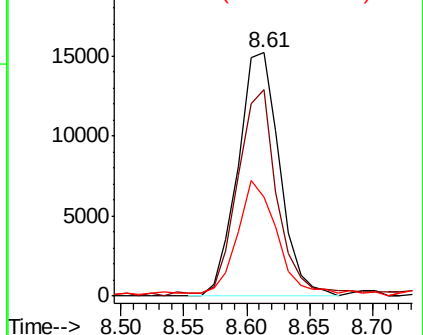
Acq: 2 Jan 2019 12:16

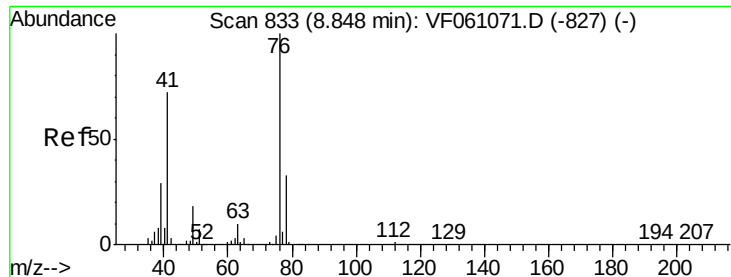
Tgt Ion:	69	Resp:	34914
Ion	Ratio	Lower	Upper
69	100		
41	84.8	59.7	89.5
39	40.7	35.0	52.6

Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





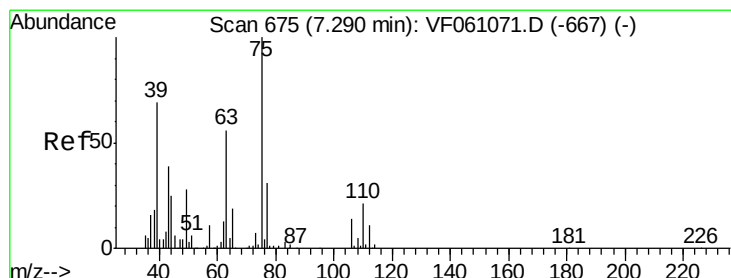
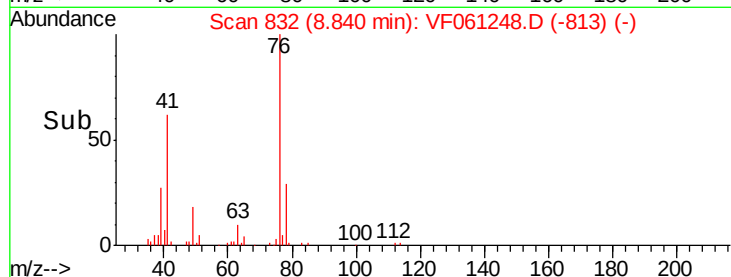
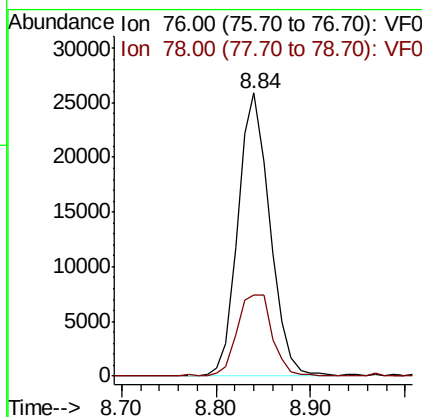
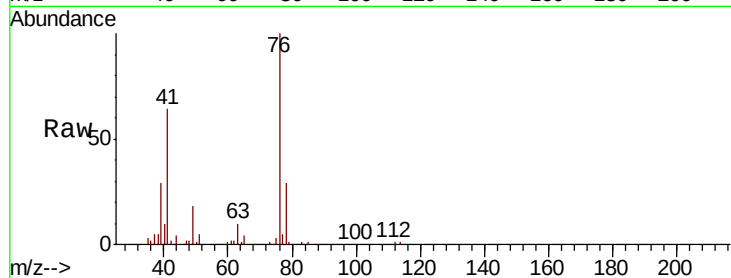
#57
 1,3-Dichloropropane
 Concen: 19.410 ug/l
 RT: 8.84 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	28.6	26.5	39.7

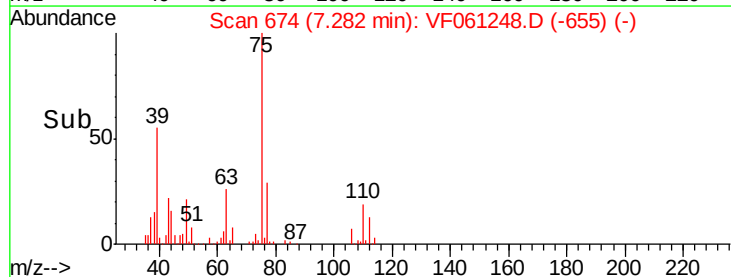
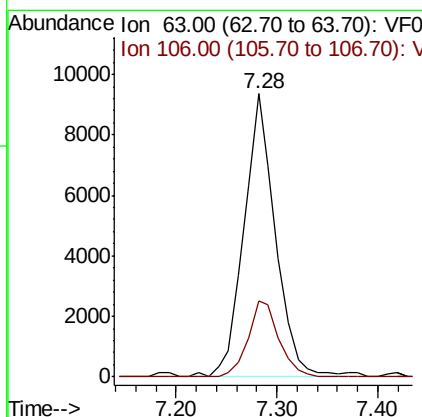
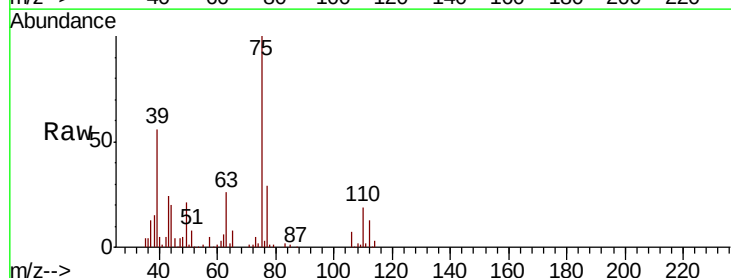
Manual Integrations
 APPROVED

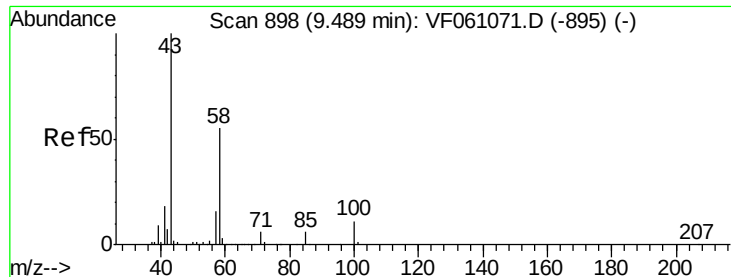
MMDadoda
 1/3/2019 3:08:17 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 56.731 ug/l
 RT: 7.28 min Scan# 674
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.6	19.8	29.8





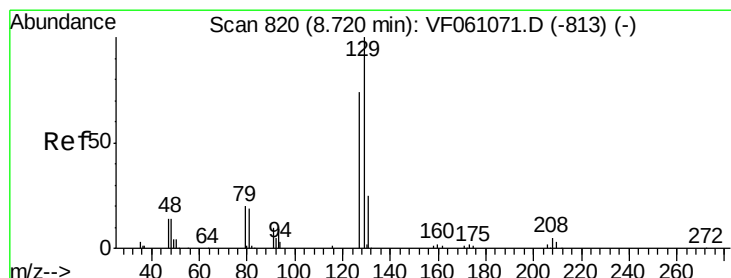
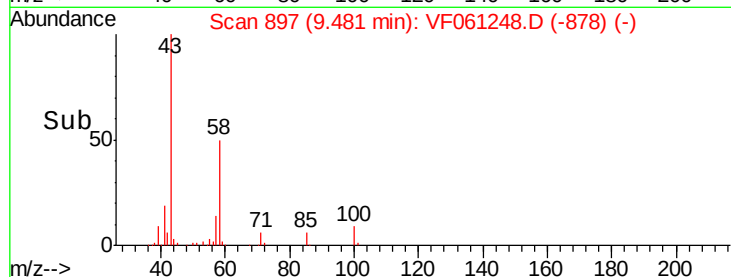
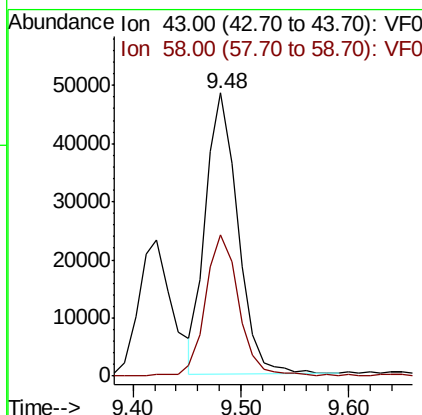
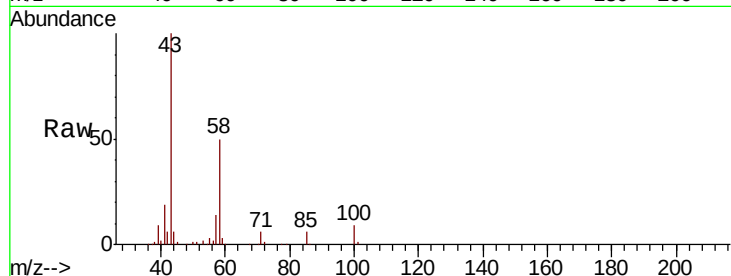
#59
2-Hexanone
Concen: 103.789 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.1	75.2

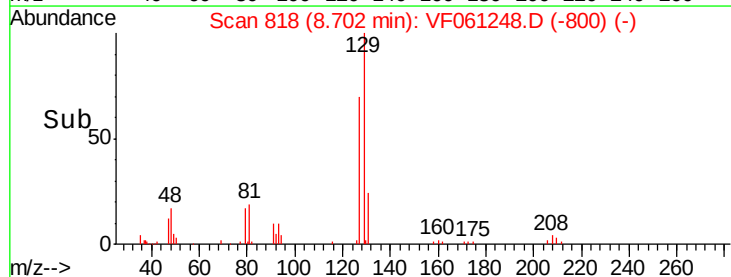
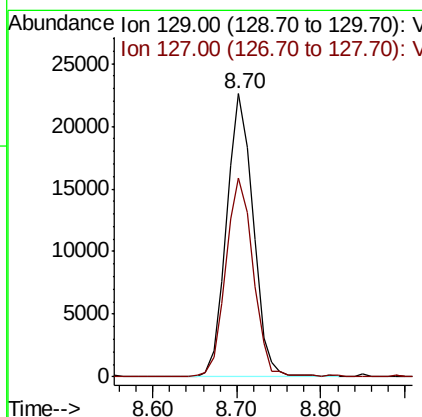
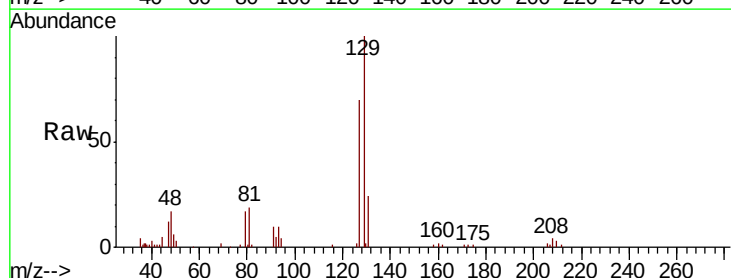
Manual Integrations
APPROVED

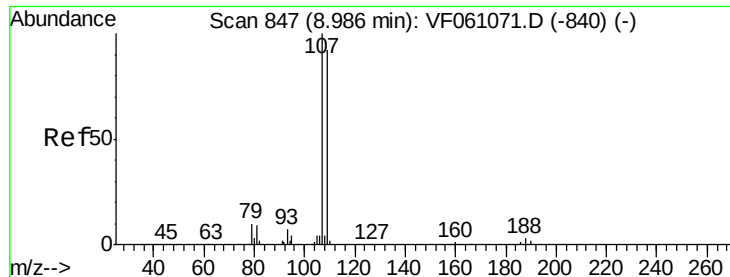
MMDadoda
1/3/2019 3:08:17 PM



#60
Dibromochloromethane
Concen: 20.163 ug/l
RT: 8.70 min Scan# 818
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	70.3	36.8	110.3





#61

1,2-Dibromoethane

Concen: 19.744 ug/l

RT: 8.98 min Scan# 846

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion:107 Resp: 36317

Ion Ratio Lower Upper

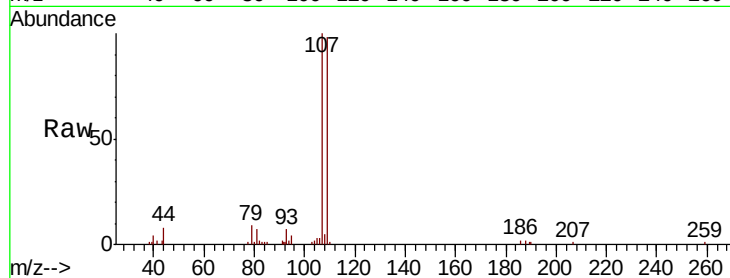
107 100

109 98.4 73.7 110.5

Manual Integrations
APPROVED

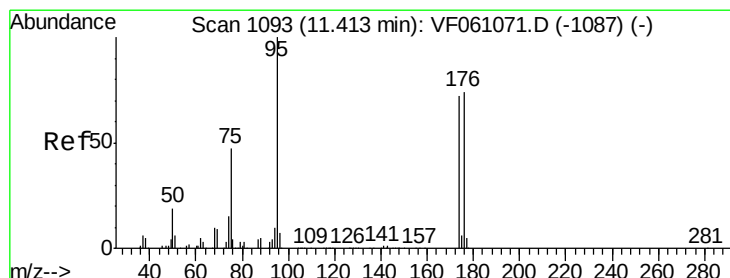
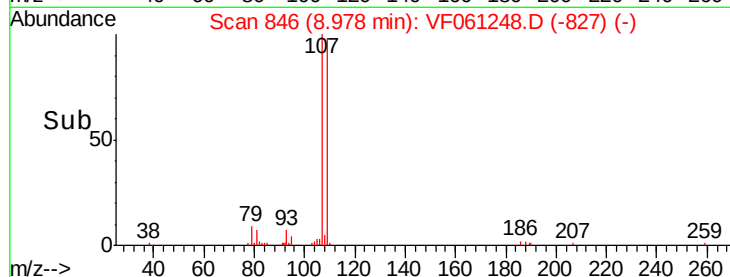
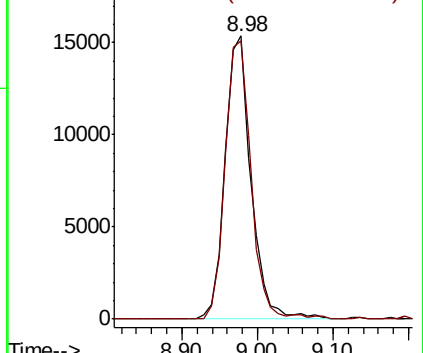
MMDadoda

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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: 46.243 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

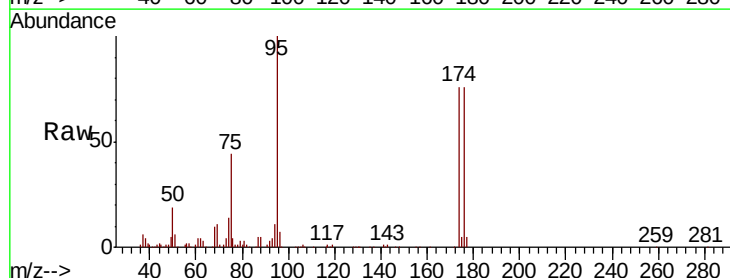
Tgt Ion: 95 Resp: 161813

Ion Ratio Lower Upper

95 100

174 76.2 0.0 143.8

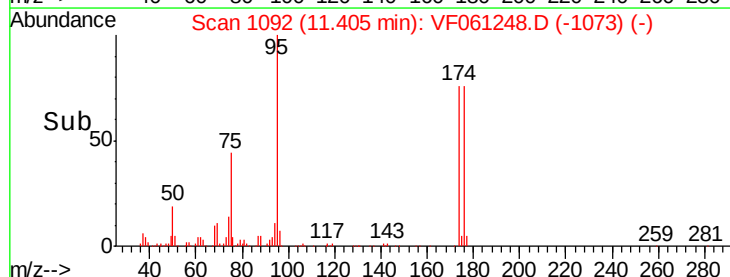
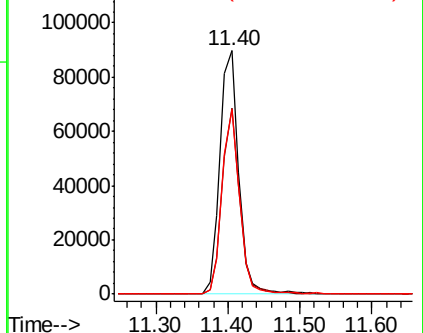
176 76.0 0.0 147.6

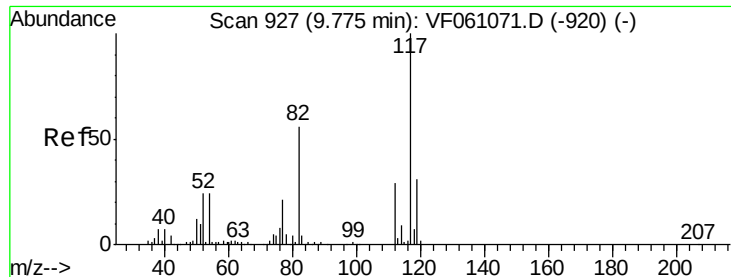


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





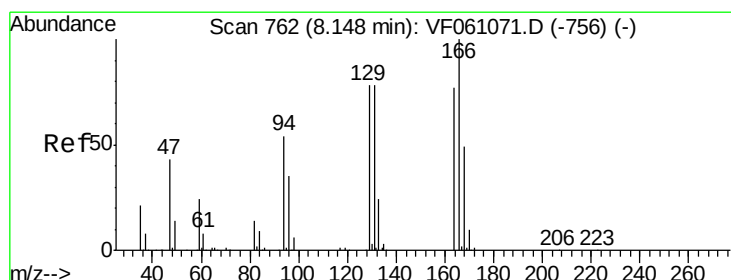
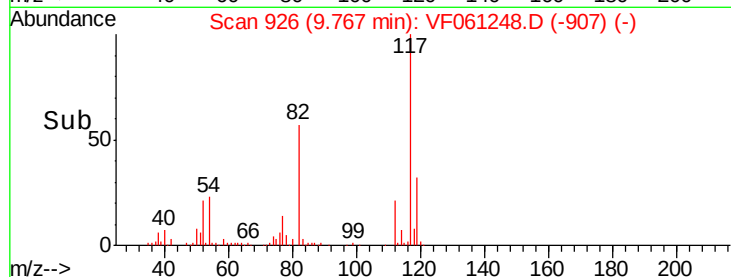
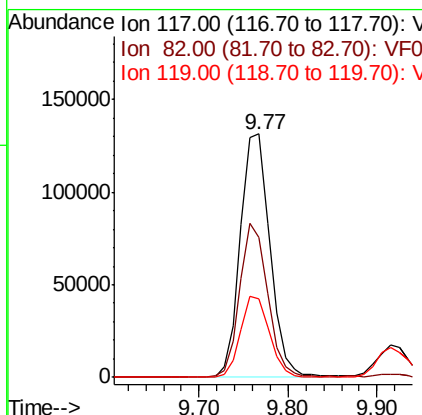
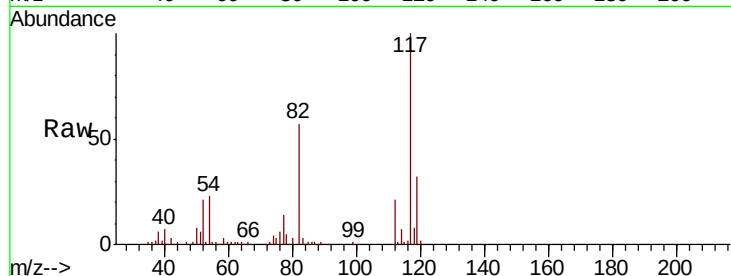
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	305354		
82	57.4	45.0	67.4	
119	32.3	24.8	37.2	

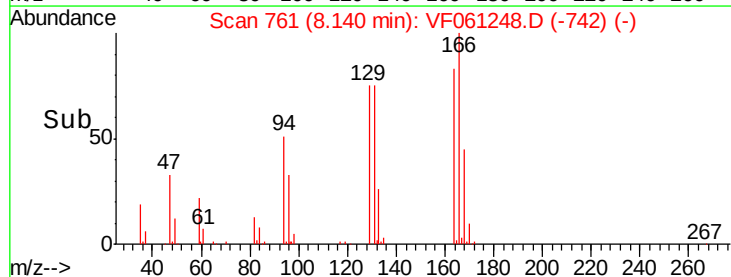
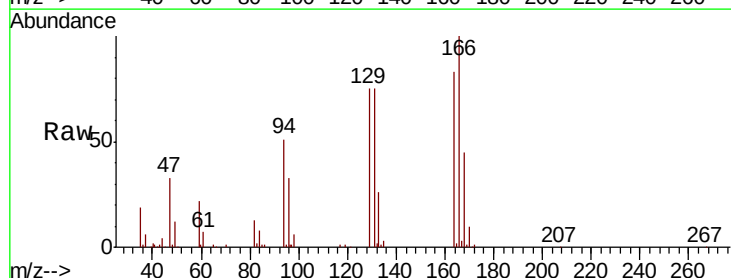
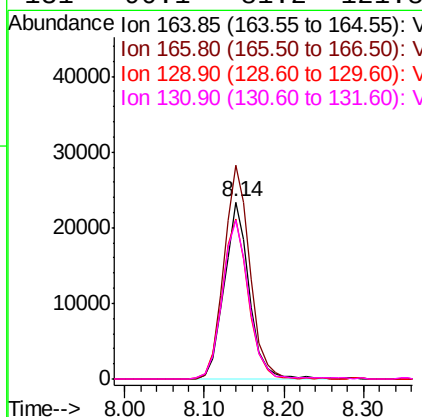
Manual Integrations
APPROVED

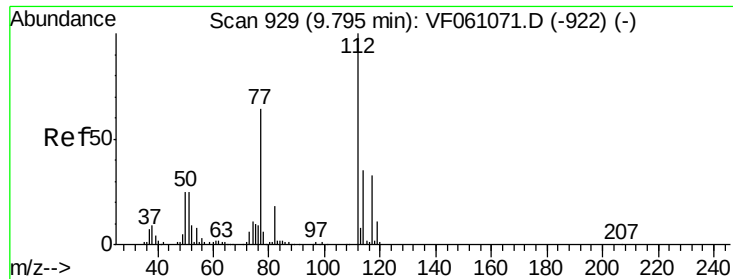
MMDadoda
1/3/2019 3:08:17 PM



#64
Tetrachloroethene
Concen: 21.865 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	51360		
166	120.9	104.0	156.0	
129	90.5	81.1	121.7	
131	90.1	81.2	121.8	





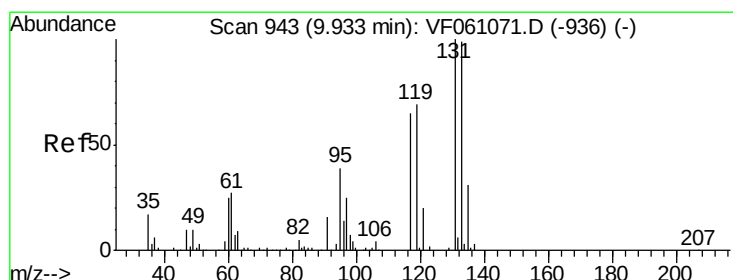
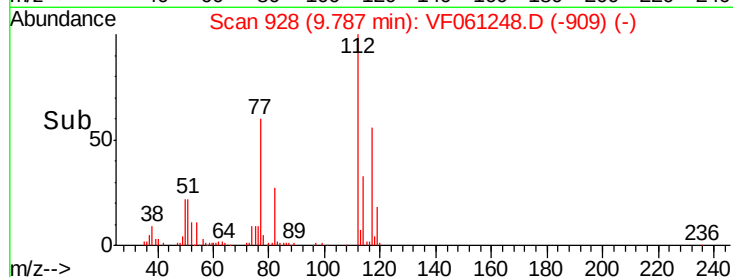
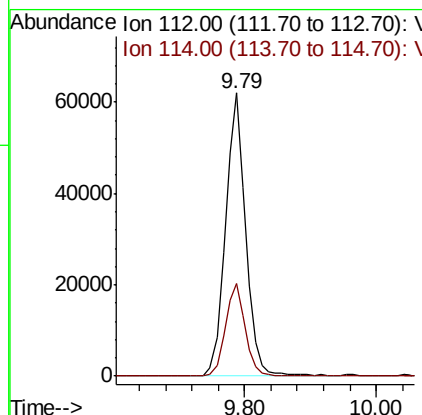
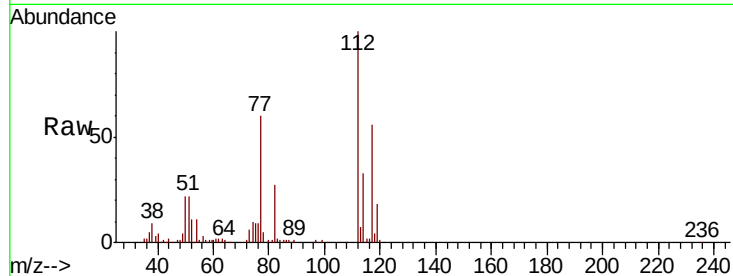
#65
Chlorobenzene
Concen: 21.032 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	27.8	41.6

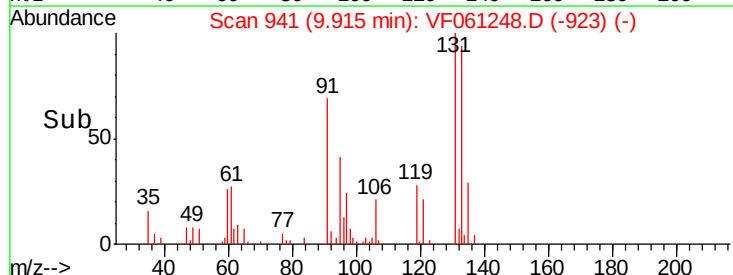
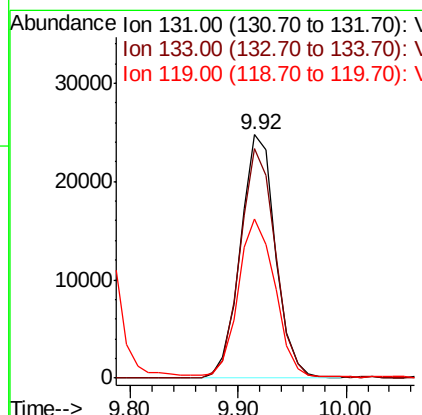
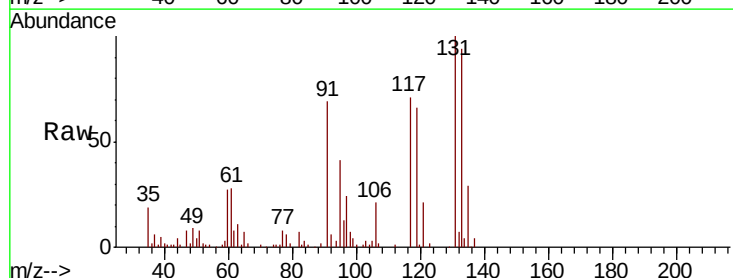
Manual Integrations
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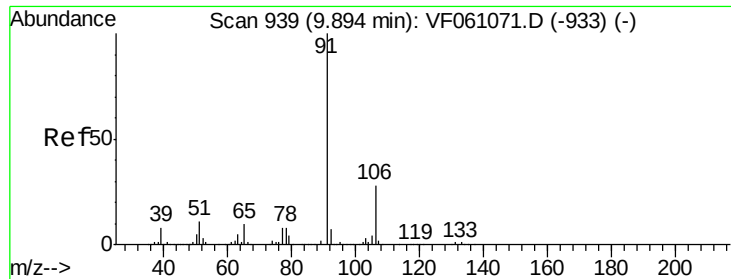
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.528 ug/l
RT: 9.92 min Scan# 941
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.4	49.5	148.7
119	65.6	34.5	103.5





#67

Ethyl Benzene

Concen: 21.626 ug/l

RT: 9.89 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 91 Resp: 248534

Ion Ratio Lower Upper

91 100

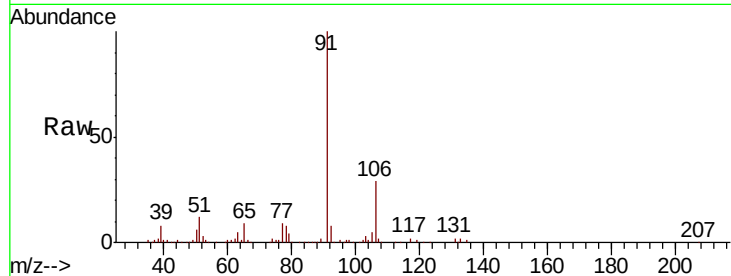
106 28.8 22.5 33.7

Manual Integrations

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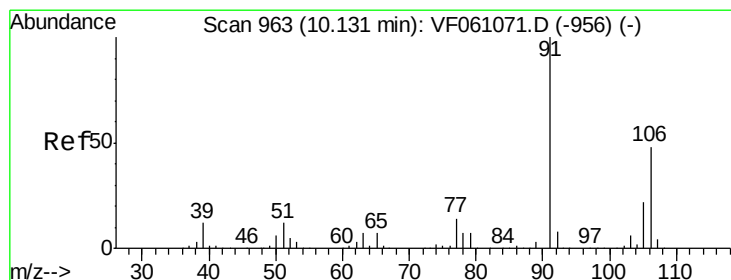
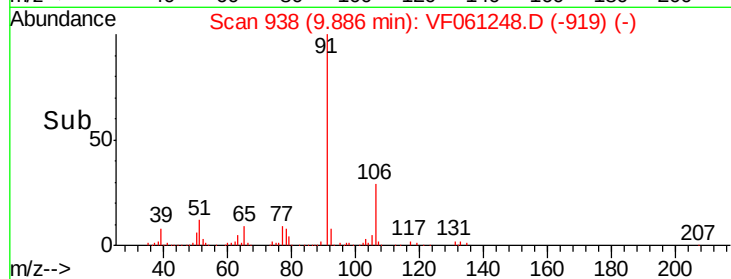
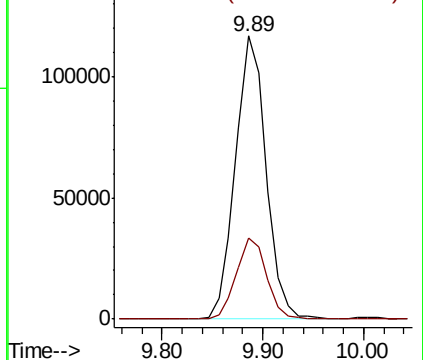
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 44.958 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.01 min

Lab File: VF061248.D

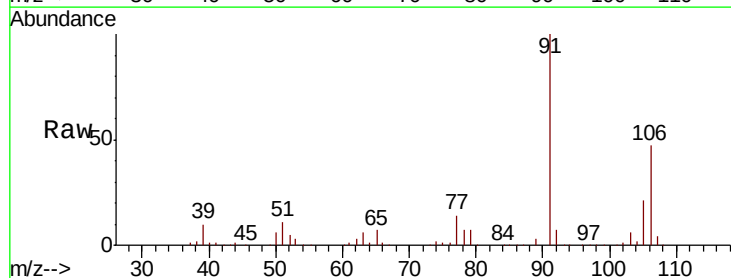
Acq: 2 Jan 2019 12:16

Tgt Ion: 106 Resp: 181829

Ion Ratio Lower Upper

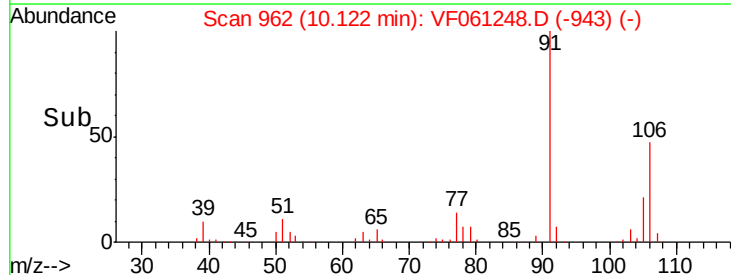
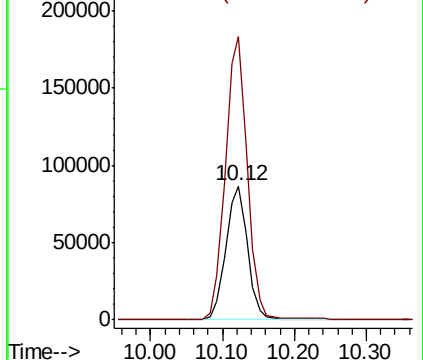
106 100

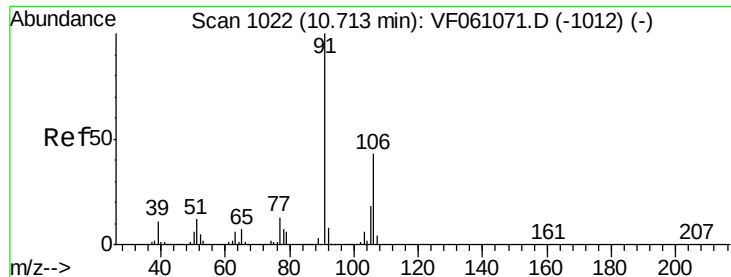
91 210.8 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





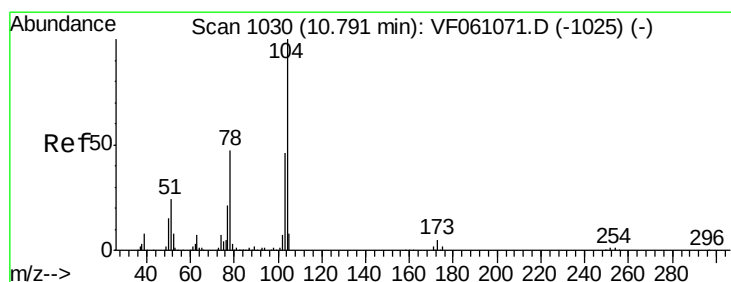
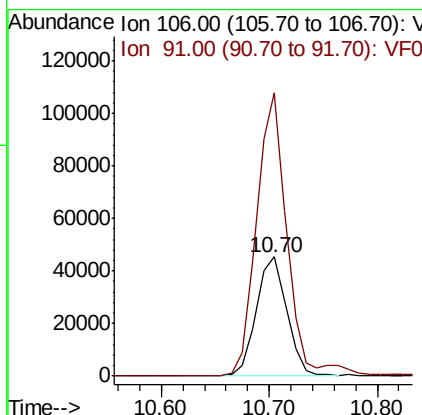
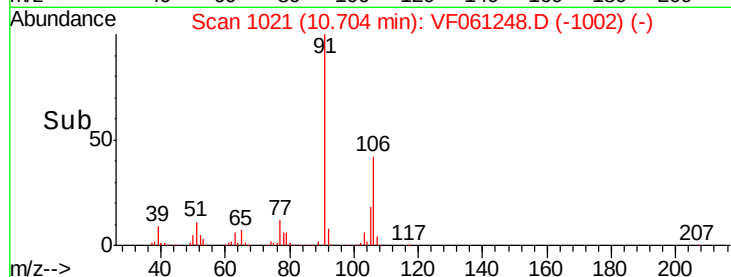
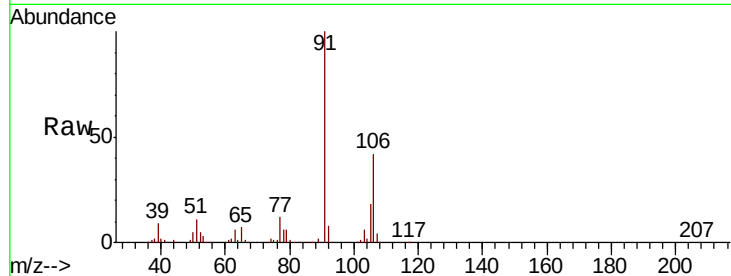
#69
o-Xylene
Concen: 19.925 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion:106 Resp: 89376
Ion Ratio Lower Upper
106 100
91 237.2 115.9 347.7

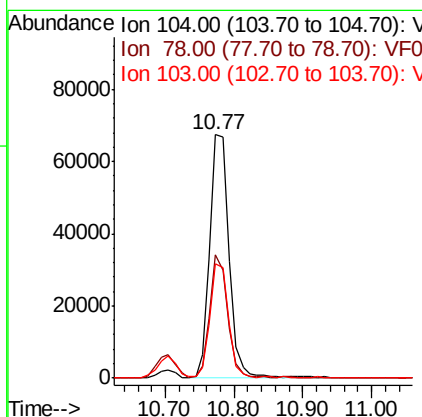
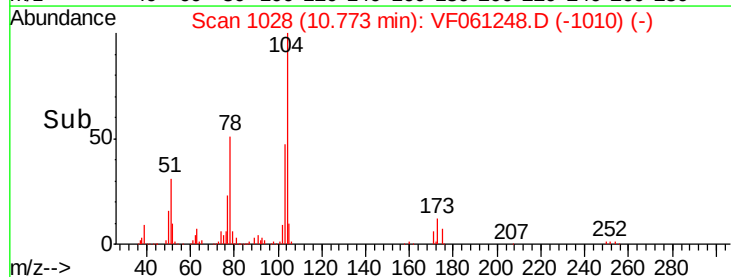
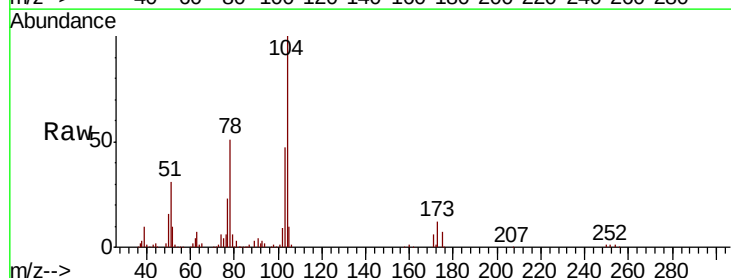
Manual Integrations
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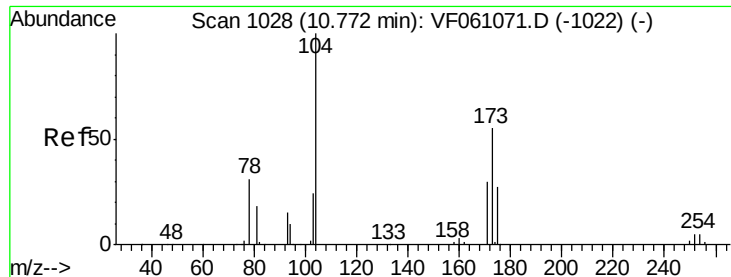
MMDadoda
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#70
Styrene
Concen: 21.271 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion:104 Resp: 131600
Ion Ratio Lower Upper
104 100
78 50.6 38.4 57.6
103 47.2 37.0 55.6





#71

Bromoform

Concen: 20.515 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion:173 Resp: 24467

Ion Ratio Lower Upper

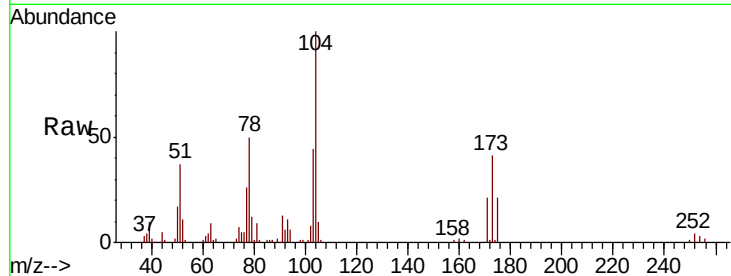
173 100

175 51.2 24.8 74.4

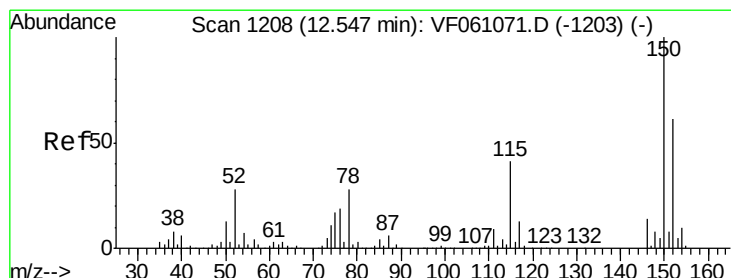
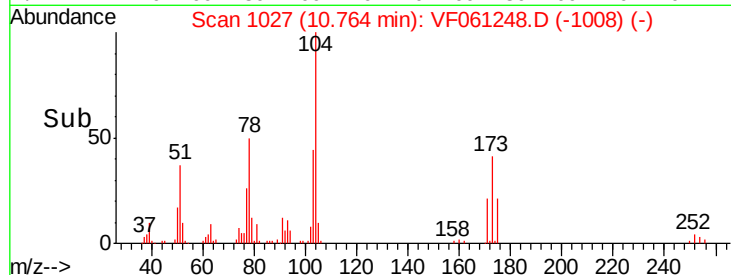
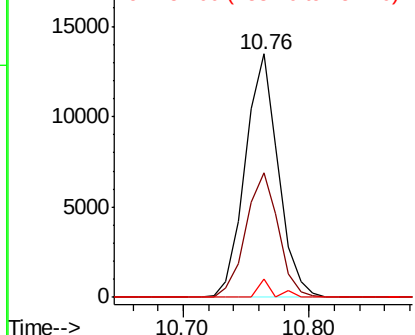
254 7.3 0.0 0.0#

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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

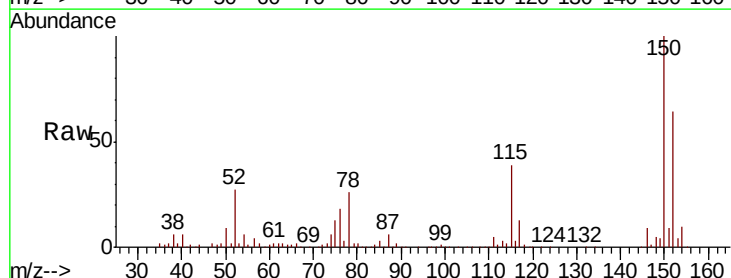
Tgt Ion:152 Resp: 152440

Ion Ratio Lower Upper

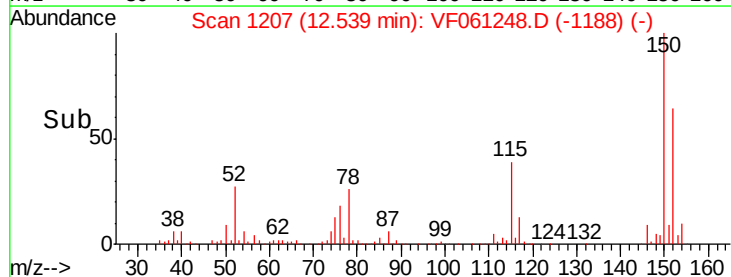
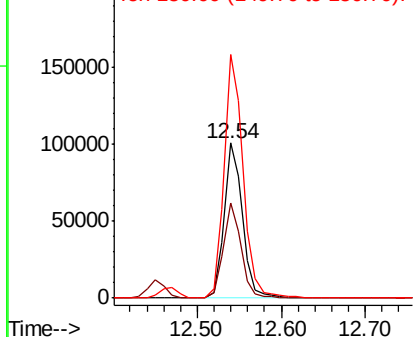
152 100

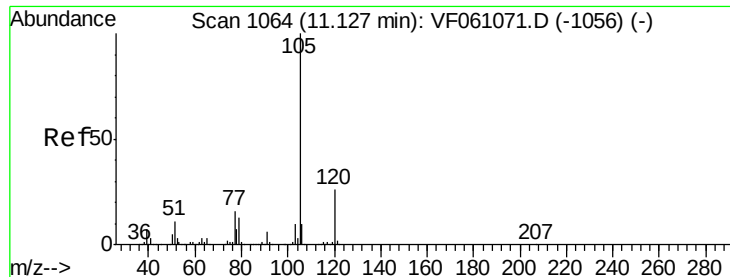
115 61.5 33.3 99.9

150 157.3 0.0 328.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.247 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion:105 Resp: 279119

Ion Ratio Lower Upper

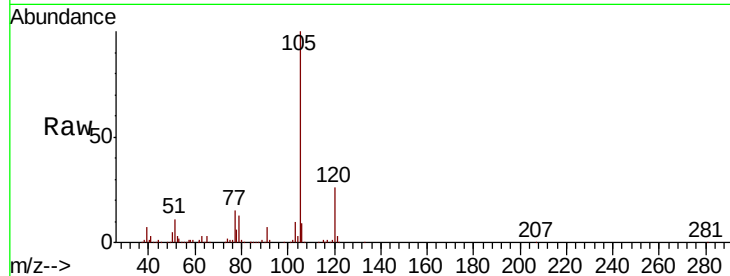
105 100

120 26.1 13.0 39.0

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

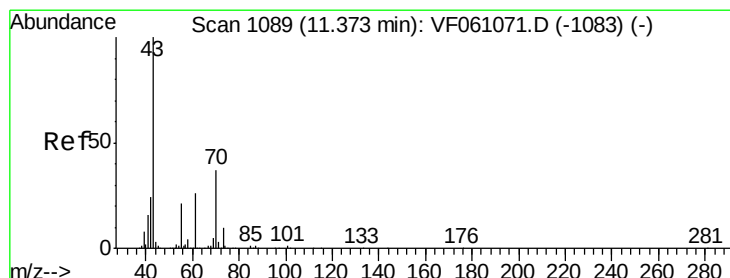
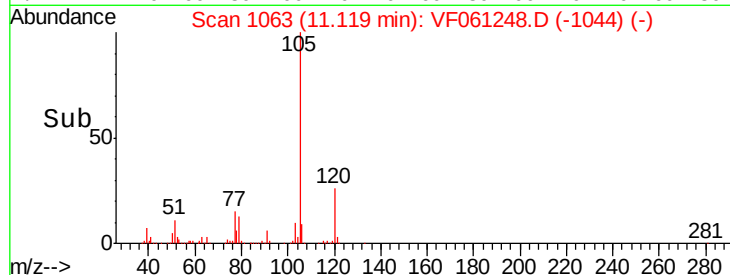
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#74

N-ethyl acetate

Concen: 21.415 ug/l

RT: 11.37 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion: 43 Resp: 62457

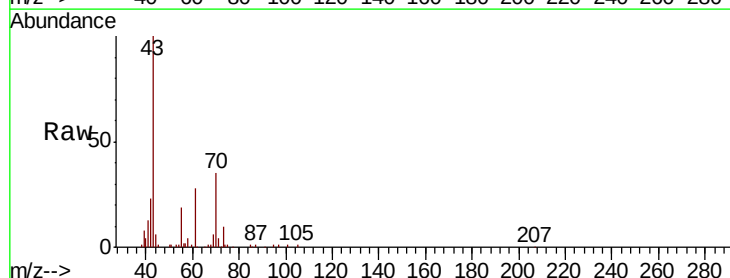
Ion Ratio Lower Upper

43 100

70 34.5 29.2 43.8

55 19.3 16.5 24.7

61 27.5 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.37

50000

40000

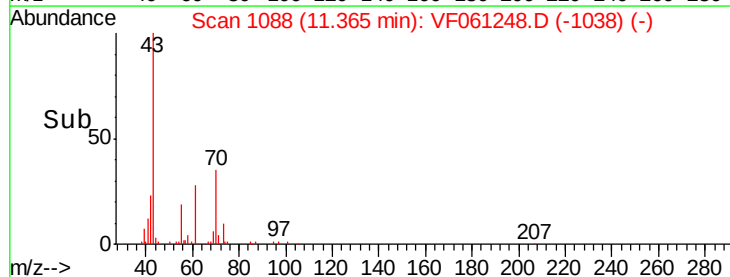
30000

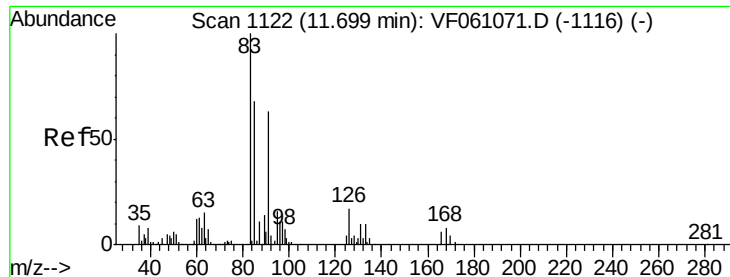
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 21.596 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

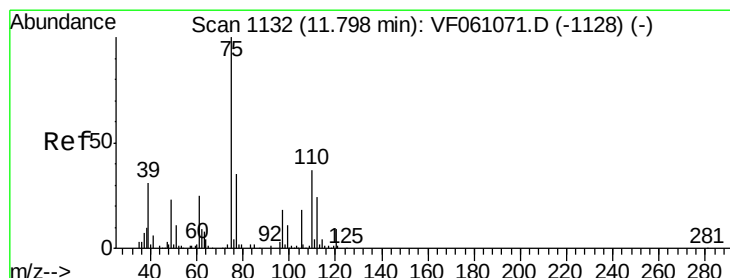
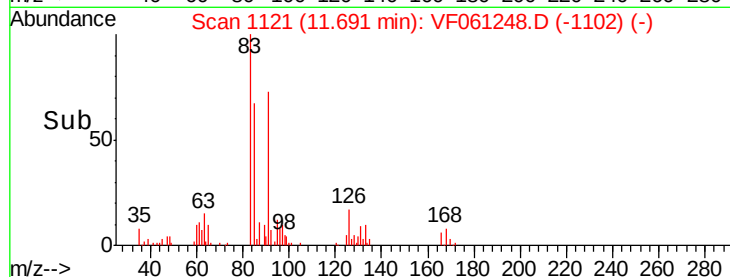
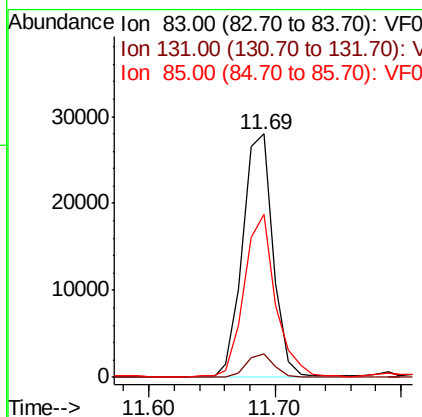
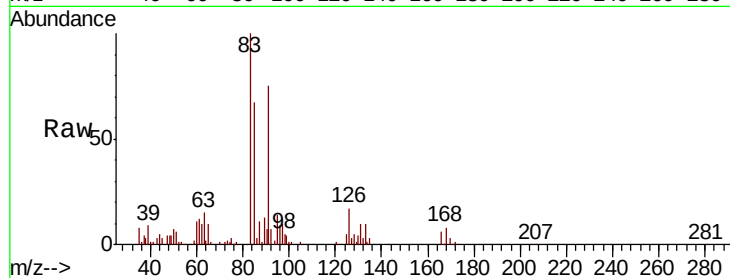
ClientSampleId :

VF0102SBS01

Tot Ion	83	Resp	47085
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	4.8	14.3
85	67.0	33.9	101.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.969 ug/l

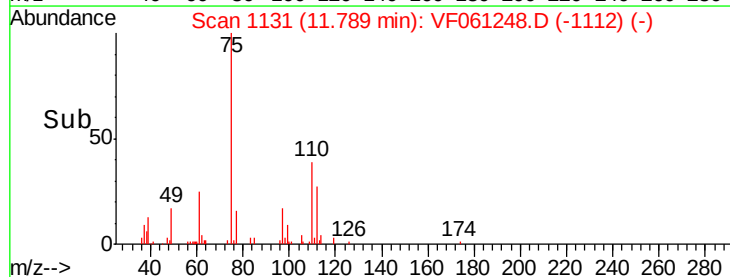
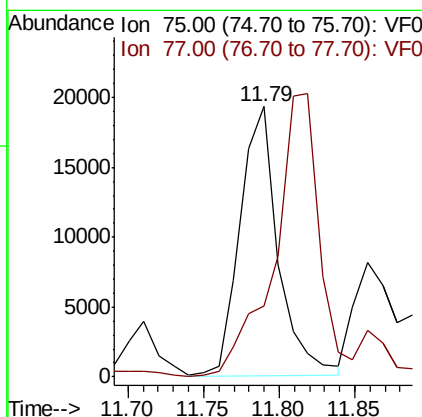
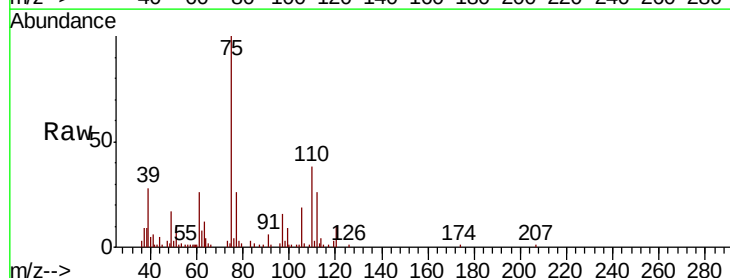
RT: 11.79 min Scan# 1131

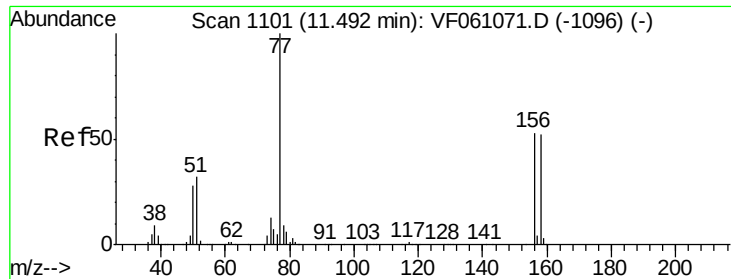
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion	75	Resp	34023
Ion Ratio	100	Lower	Upper
75	100		
77	26.3	17.6	52.9





#77

Bromobenzene

Concen: 20.483 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

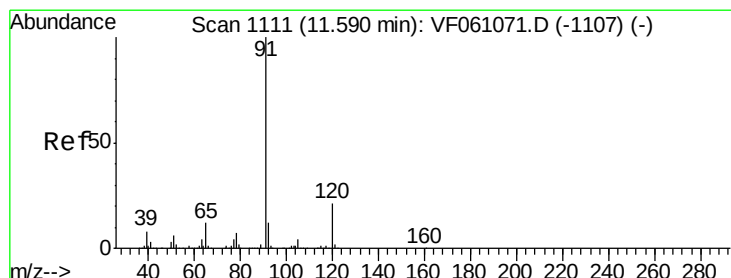
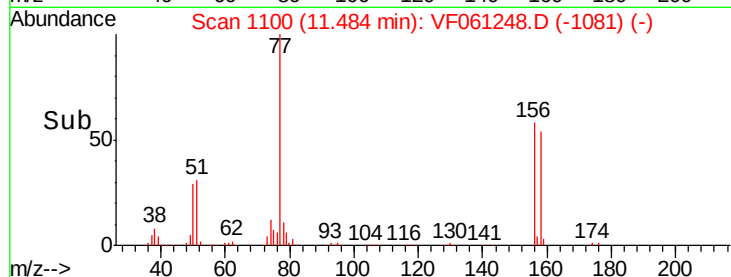
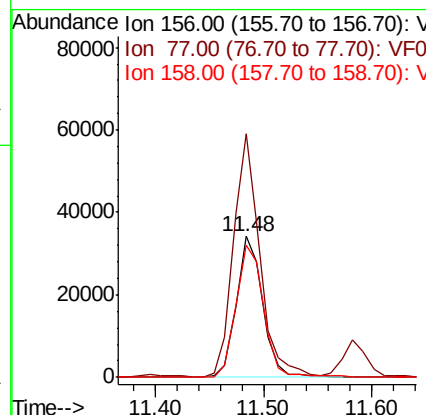
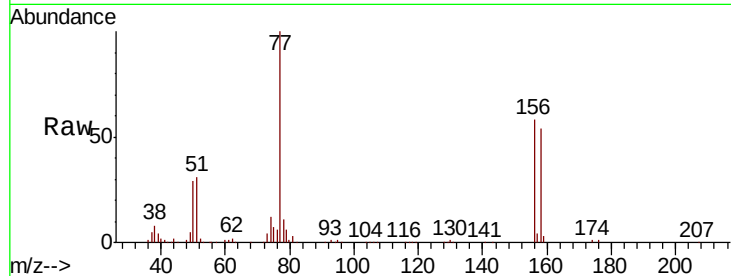
ClientSampleId :

VF0102SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	173.1	93.8	281.4	
158	94.2	48.9	146.8	

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#78

n-propylbenzene

Concen: 19.723 ug/l

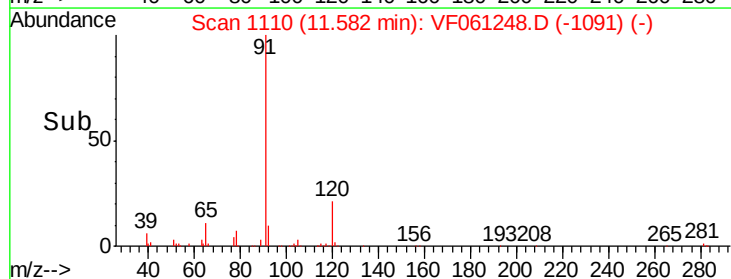
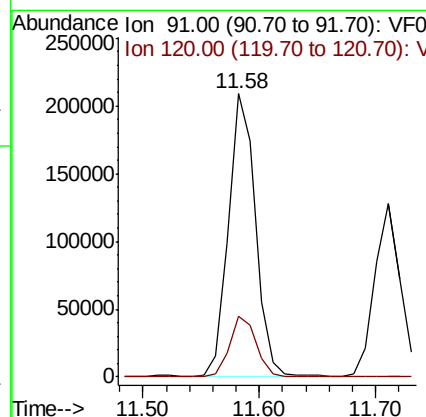
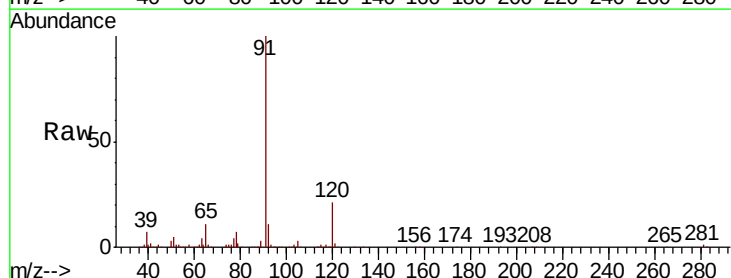
RT: 11.58 min Scan# 1110

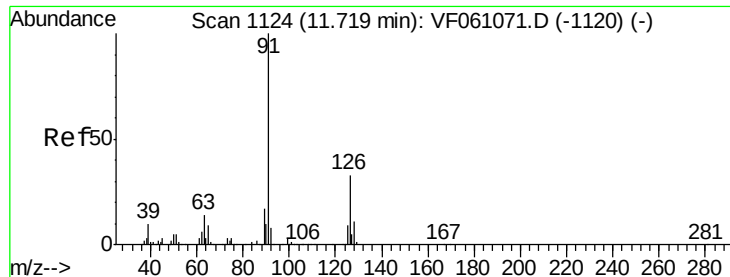
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.4	10.4	31.2	





#79

2-Chlorotoluene

Concen: 21.506 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion: 91 Resp: 193803

Ion Ratio Lower Upper

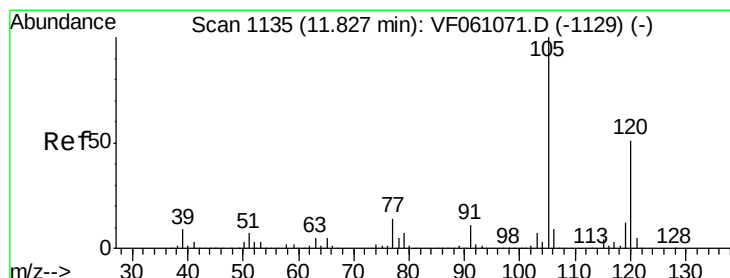
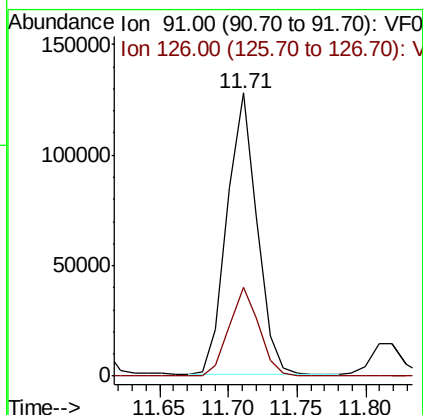
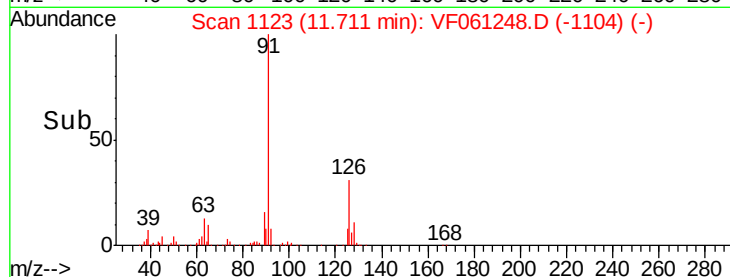
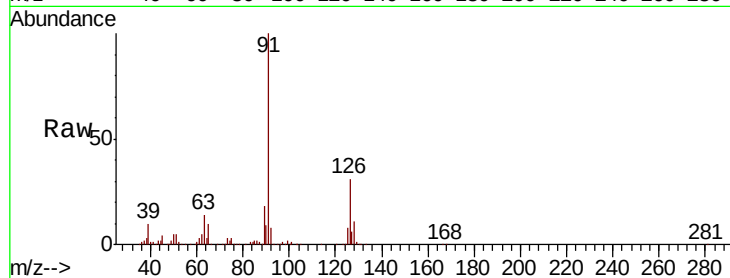
91 100

126 31.3 16.4 49.1

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#80

1,3,5-Trimethylbenzene

Concen: 22.065 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF061248.D

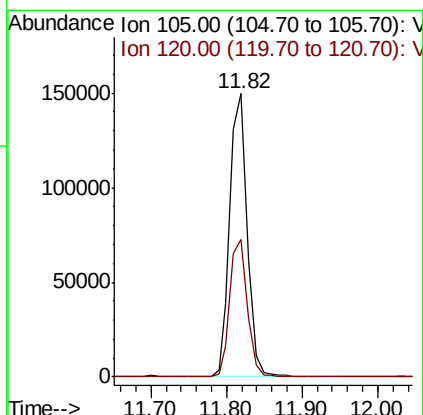
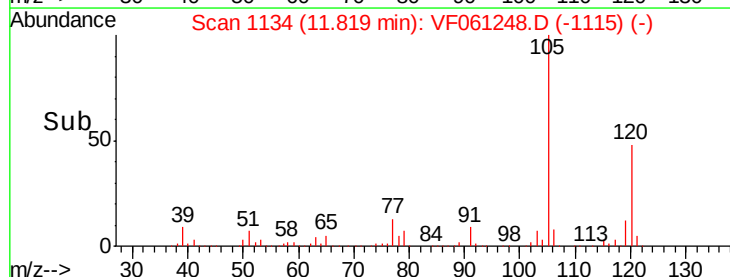
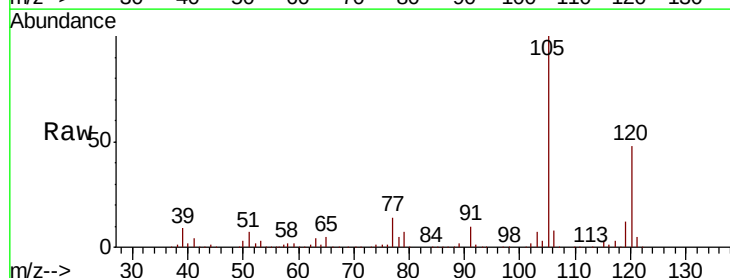
Acq: 2 Jan 2019 12:16

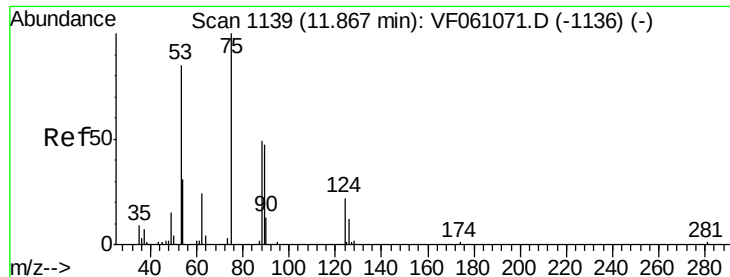
Tgt Ion: 105 Resp: 238672

Ion Ratio Lower Upper

105 100

120 48.5 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 20.024 ug/l m

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

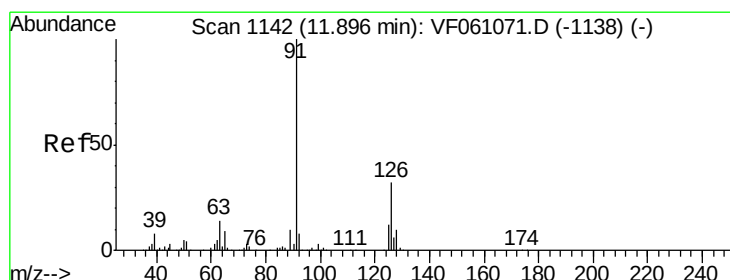
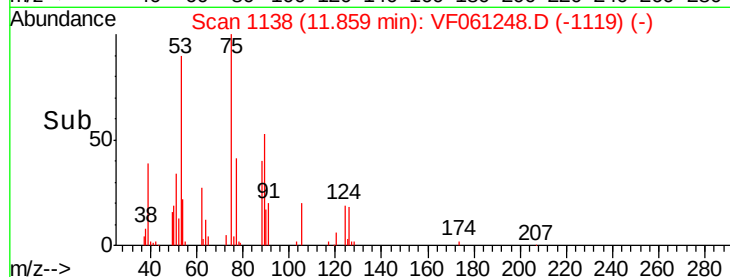
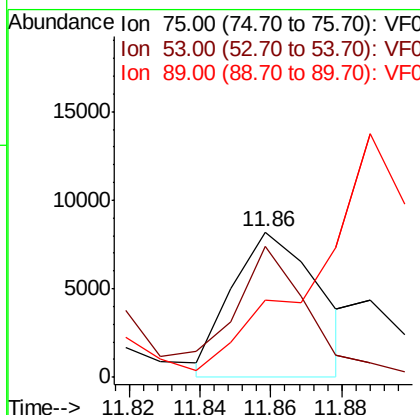
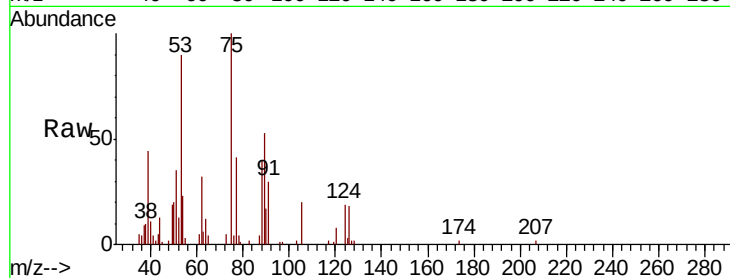
ClientSampleId :

VF0102SBS01

Tot Ion:	75	Resp:	13961
Ion	Ratio	Lower	Upper
75	100		
53	90.1	74.1	111.1
89	53.3	42.6	64.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.098 ug/l

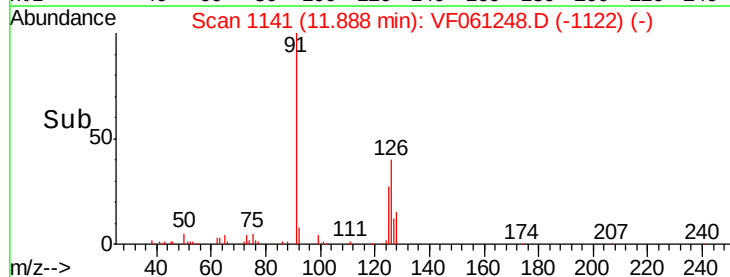
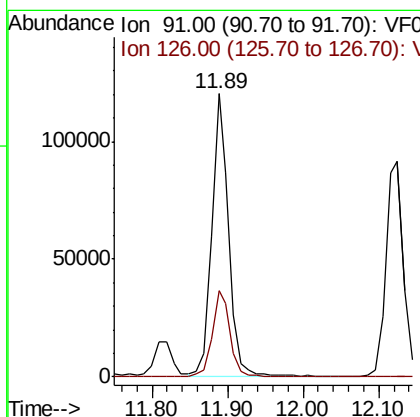
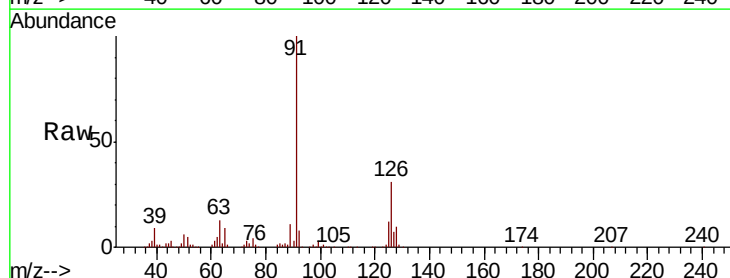
RT: 11.89 min Scan# 1141

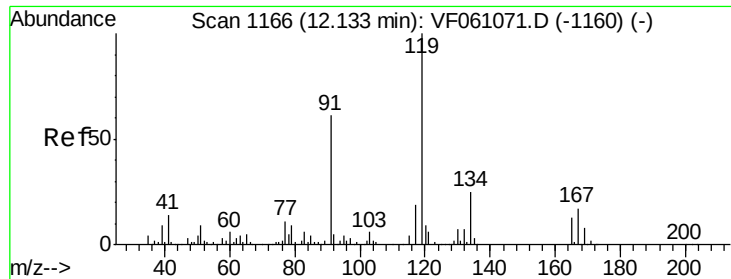
Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	91	Resp:	187358
Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.0	47.9





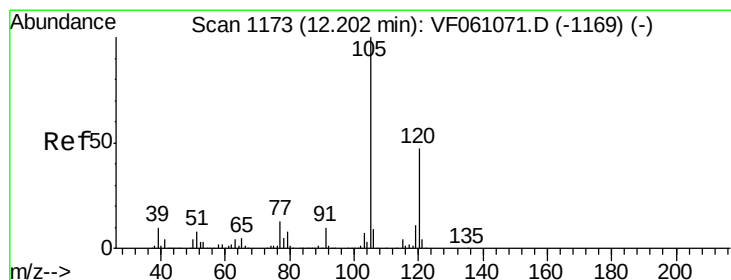
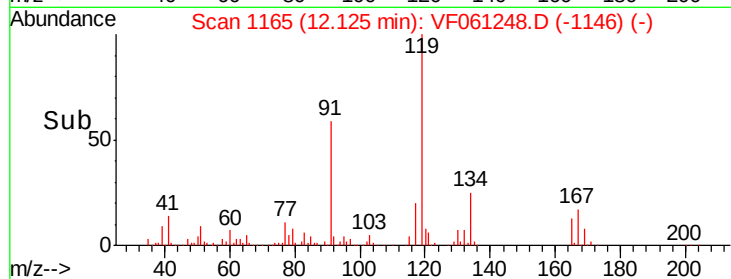
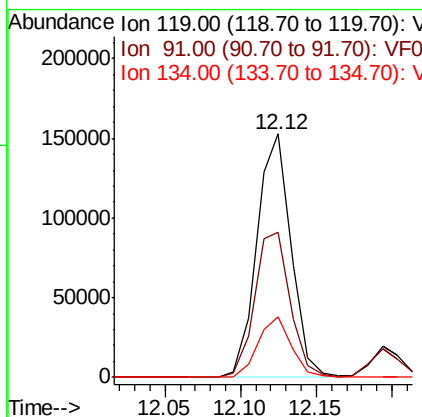
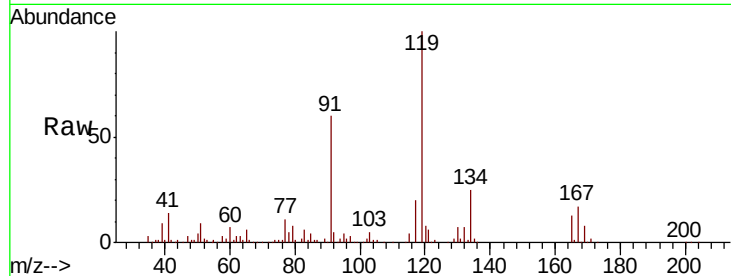
#83
tert-Butylbenzene
Concen: 21.679 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	241308		
91	59.8	30.5	91.5	
134	24.8	12.4	37.4	

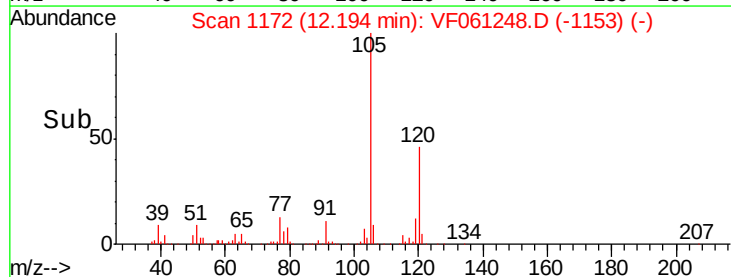
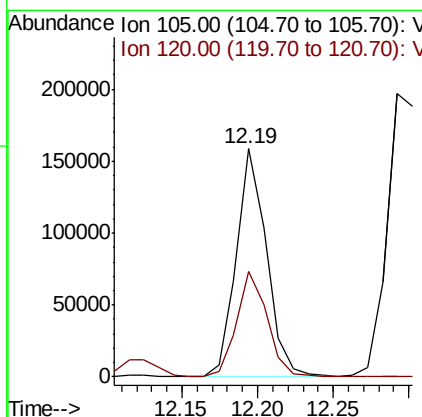
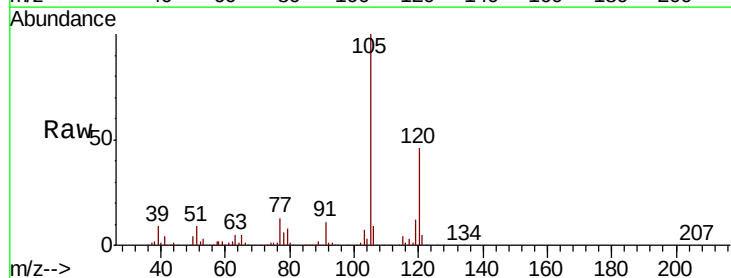
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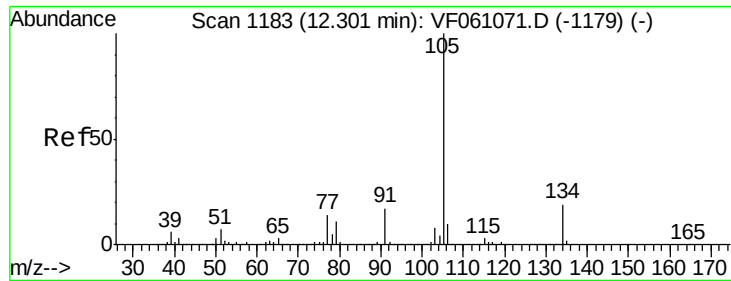
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#84
1,2,4-Trimethylbenzene
Concen: 20.481 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	220921		
120	46.4	23.6	71.0	





#85

sec-Butylbenzene

Concen: 22.062 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

ClientSampleId :

VF0102SBS01

Tot Ion:105 Resp: 320477

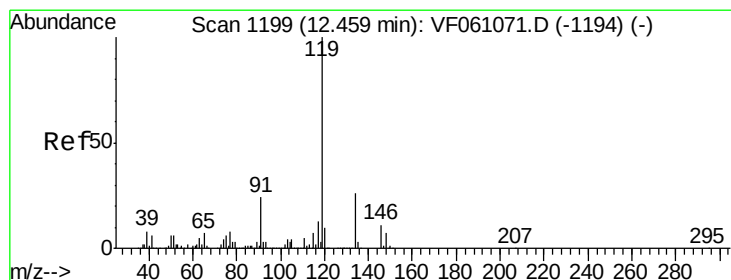
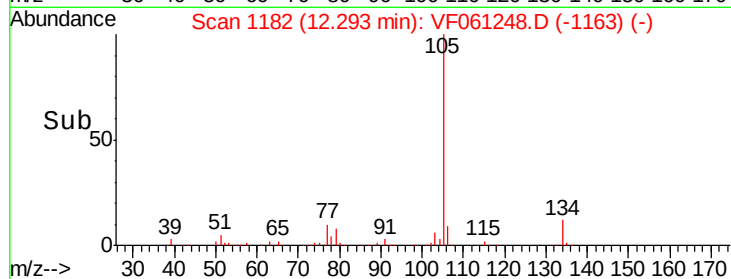
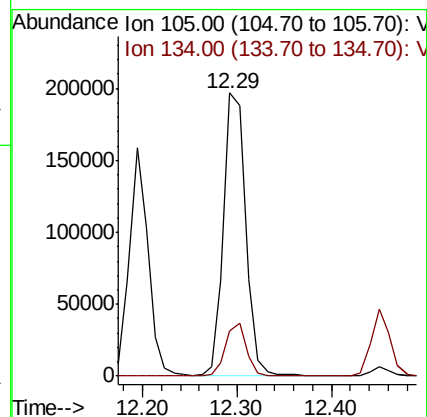
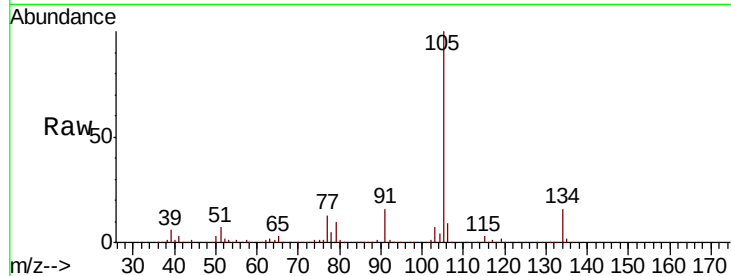
Ion Ratio Lower Upper

105 100

134 16.0 9.4 28.2

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#86

p-Isopropyltoluene

Concen: 22.035 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

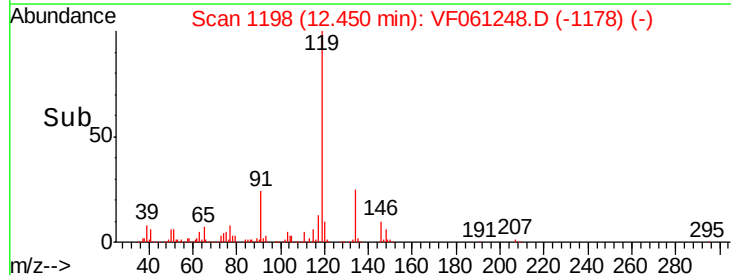
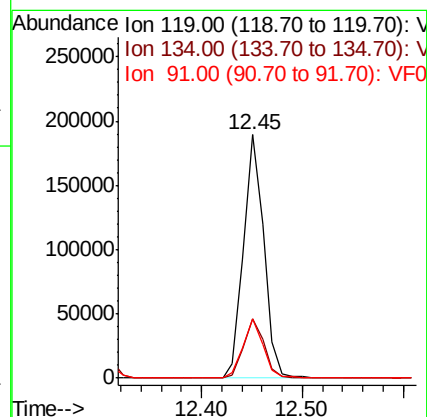
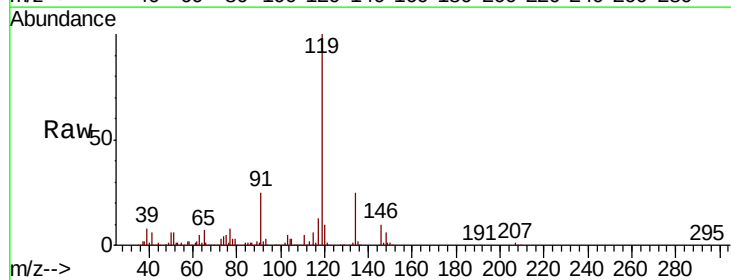
Tgt Ion:119 Resp: 265685

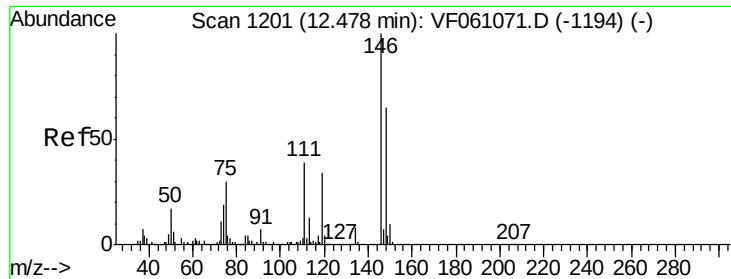
Ion Ratio Lower Upper

119 100

134 24.5 12.8 38.4

91 24.5 12.2 36.6





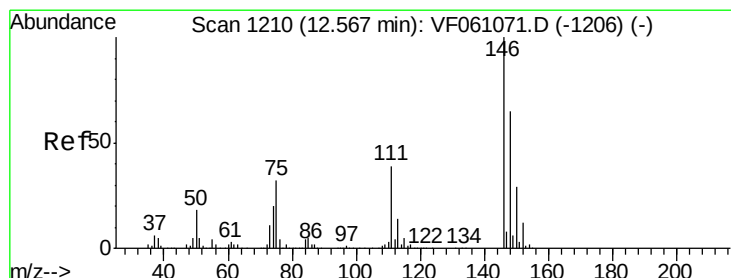
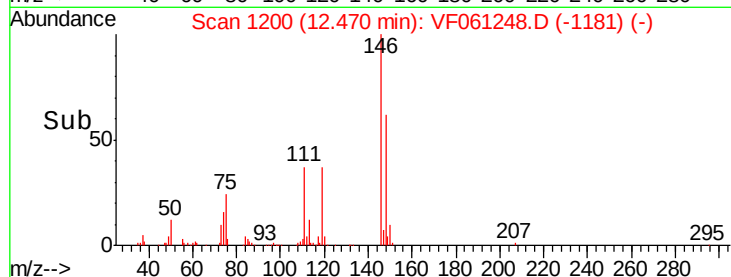
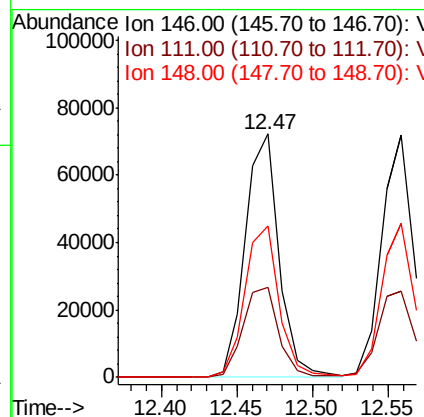
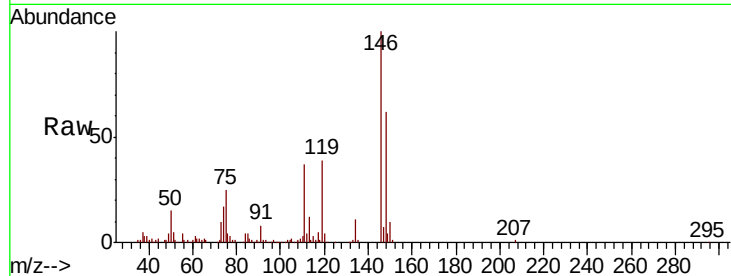
#87
 1,3-Dichlorobenzene
 Concen: 21.267 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0102SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.3	57.9
148	62.3	32.4	97.2

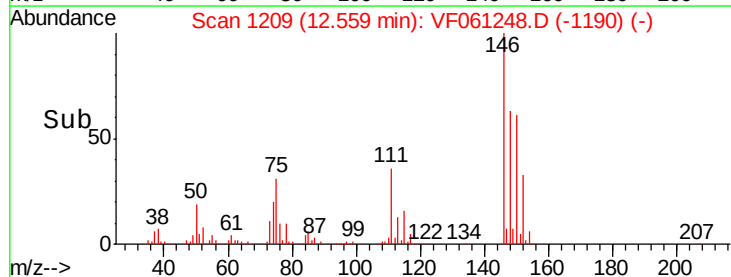
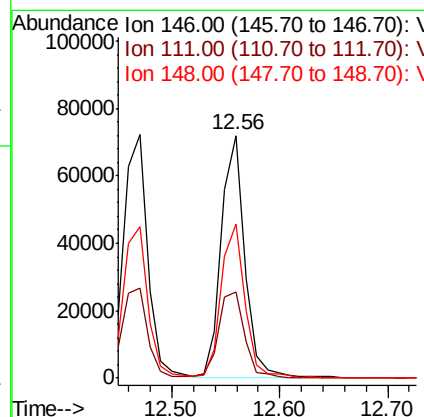
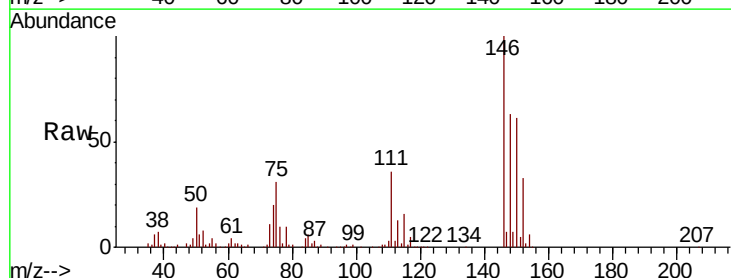
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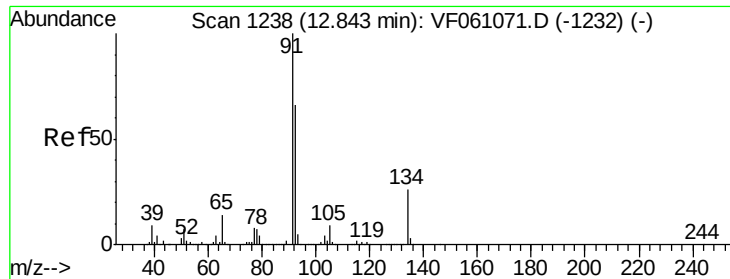
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#88
 1,4-Dichlorobenzene
 Concen: 21.027 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	19.4	58.4
148	63.3	32.4	97.0





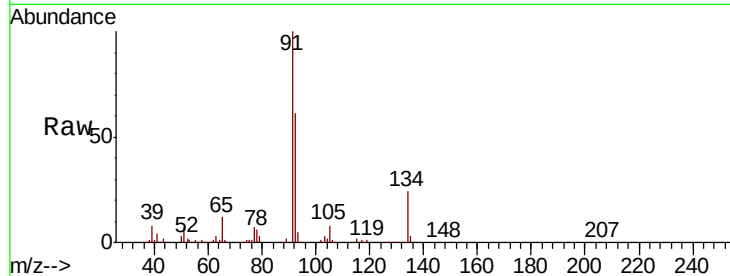
#89
n-Butylbenzene
Concen: 20.390 ug/l
RT: 12.84 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.1	32.8	98.4
134	23.8	13.2	39.5

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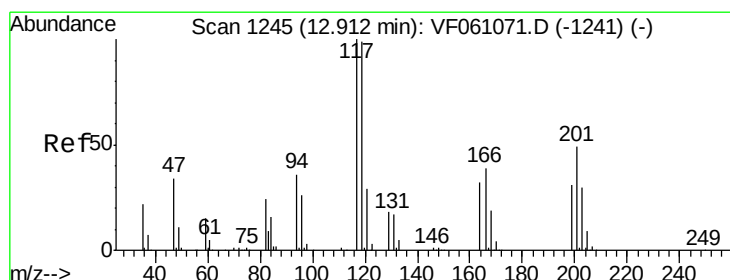
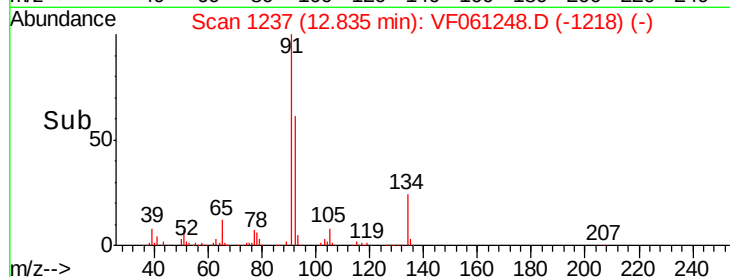
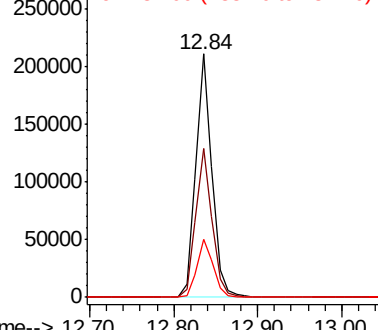


Abundance

Ion 91.00 (90.70 to 91.70): VF0

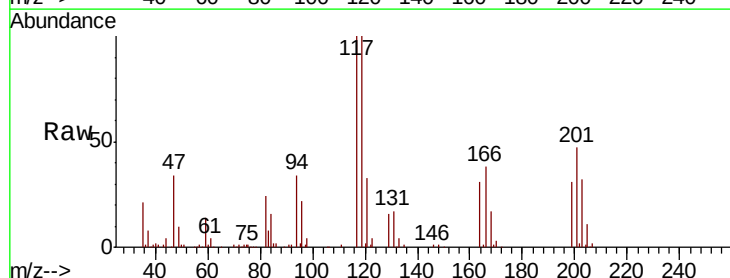
Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90
Hexachloroethane
Concen: 21.840 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

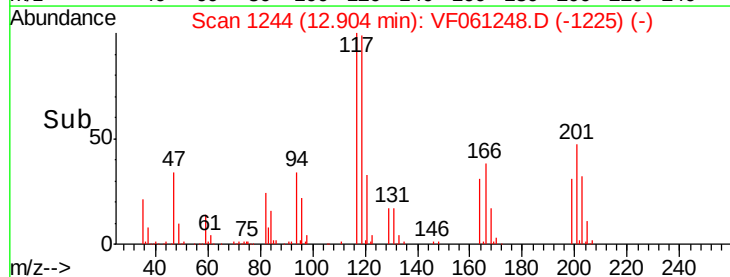
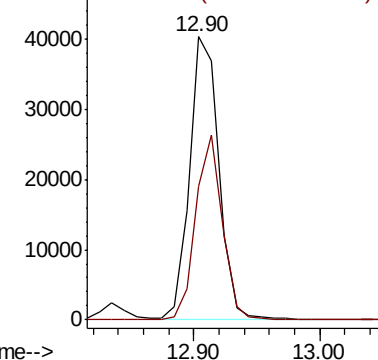
Tgt Ion	Ratio	Lower	Upper
117	100		
201	47.1	24.9	74.8

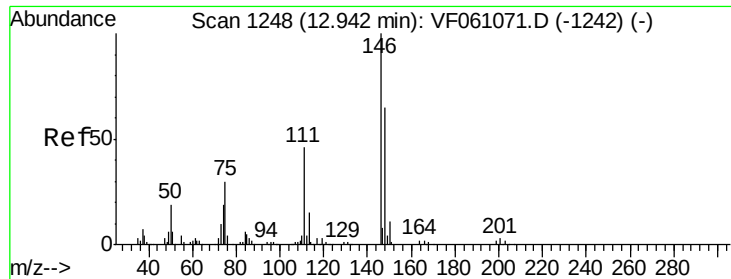


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





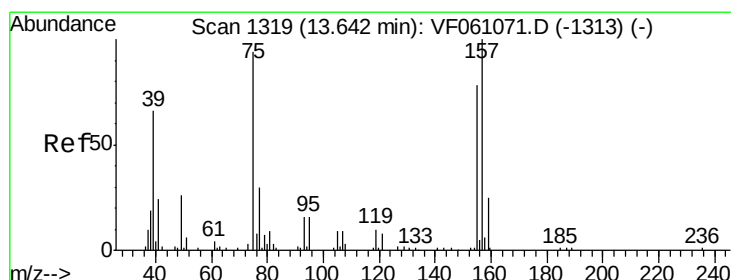
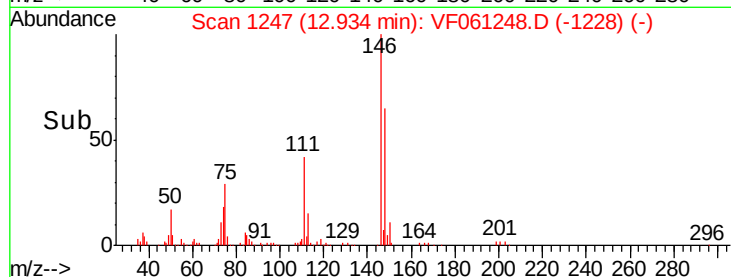
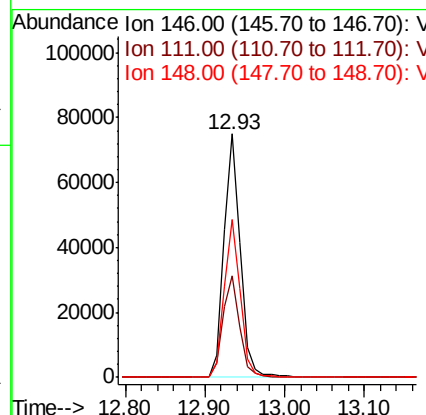
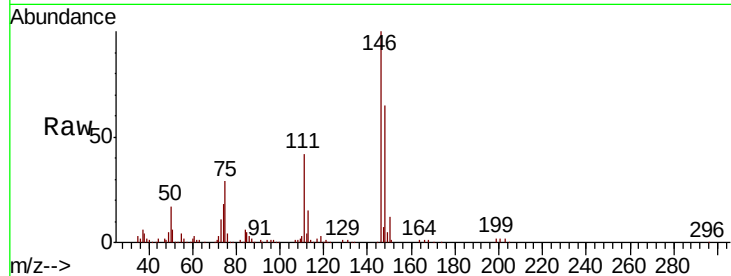
#91
 1,2-Dichlorobenzene
 Concen: 21.614 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0102SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	23.2	69.5
148	64.8	32.4	97.0

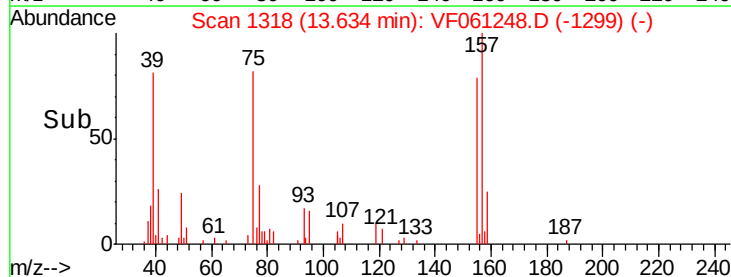
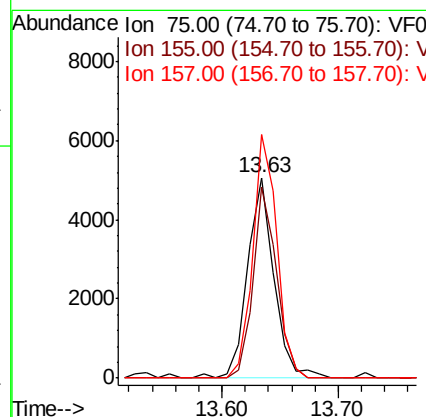
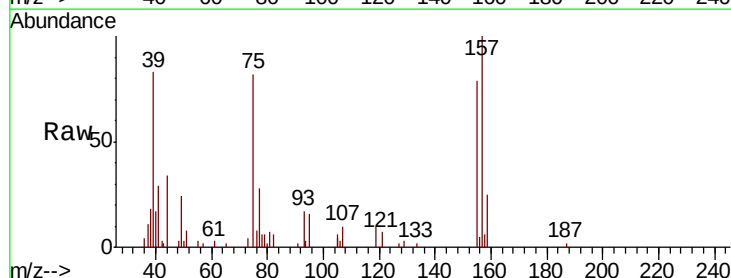
Manual Integrations
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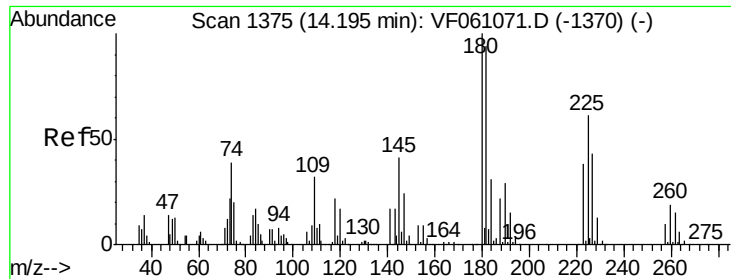
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 1/3/2019 3:08:17 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.961 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061248.D
 Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.3	41.5	124.5
157	121.4	53.2	159.6





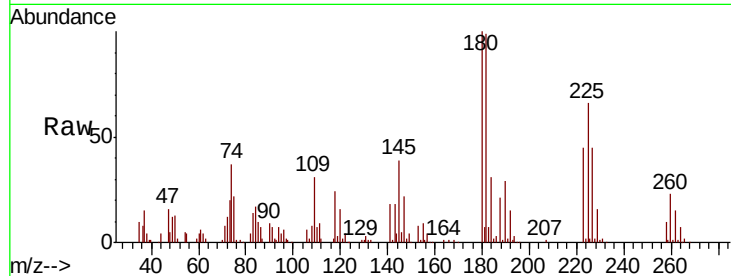
#93
1,2,4-Trichlorobenzene
Concen: 21.931 ug/l
RT: 14.19 min Scan# 1374
Delta R.T. -0.01 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Instrument :
MSVOA_F
ClientSampleId :
VF0102SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	78630		
182	99.4	46.9	140.6	
145	38.7	20.5	61.6	

Manual Integrations
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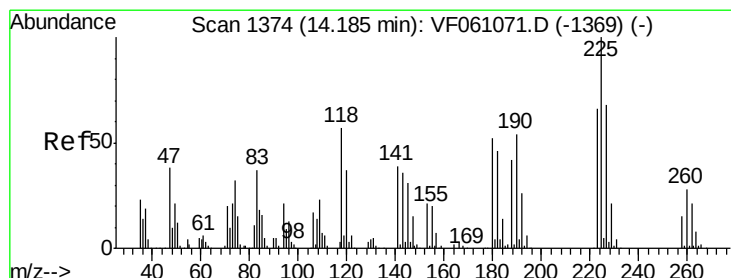
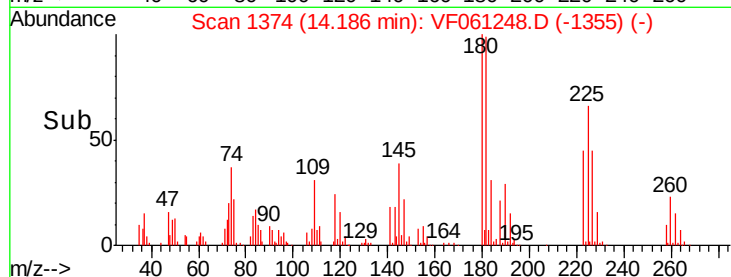
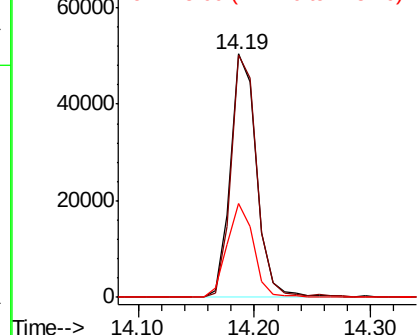


Abundance

Ion 180.00 (179.70 to 180.70): V

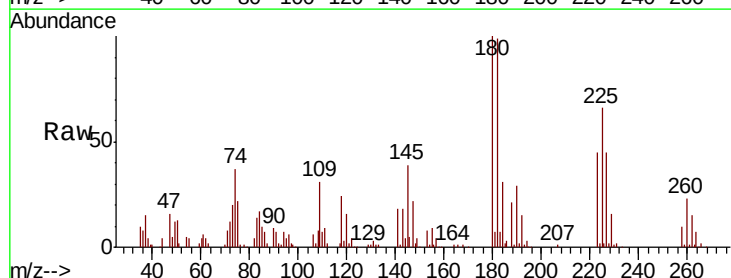
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
Hexachlorobutadiene
Concen: 22.460 ug/l
RT: 14.19 min Scan# 1374
Delta R.T. 0.00 min
Lab File: VF061248.D
Acq: 2 Jan 2019 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	51287		
223	67.4	32.8	98.3	
227	67.6	34.0	101.8	

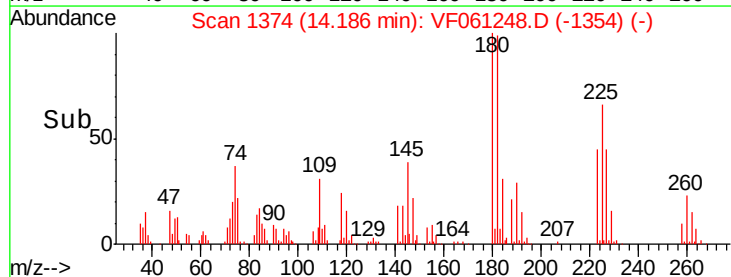
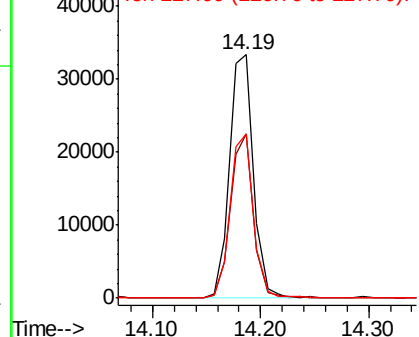


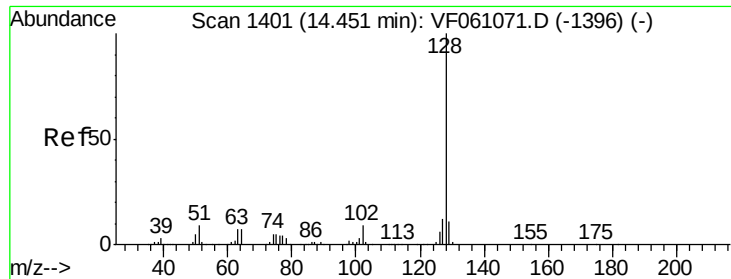
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 18.906 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Instrument :

MSVOA_F

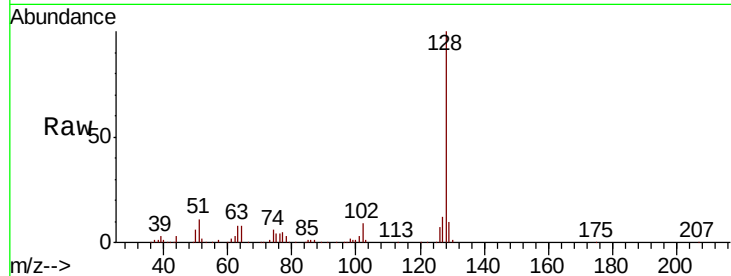
ClientSampleId :

VF0102SBS01

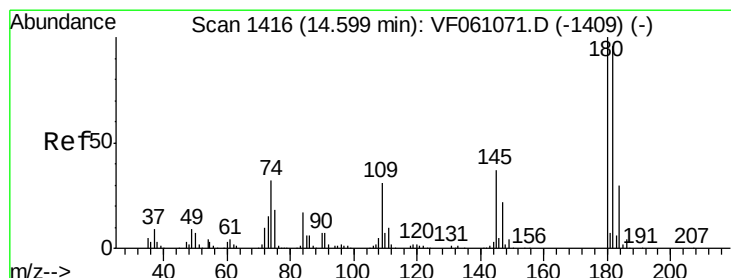
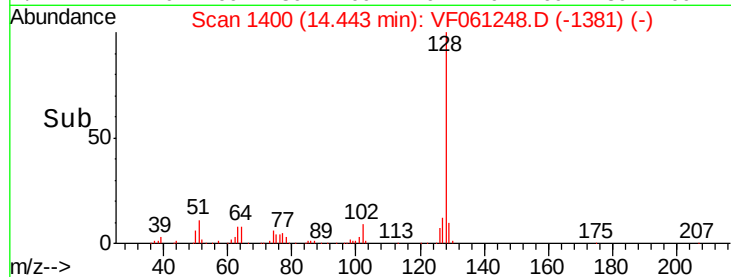
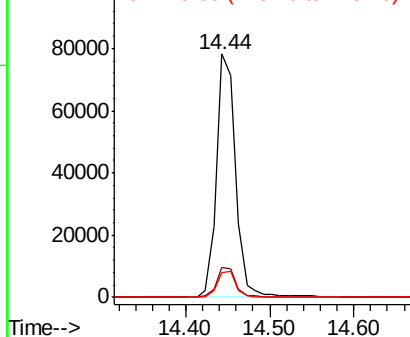
Tot Ion:	128	Resp:	123776
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.4	14.2
129	10.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/3/2019 3:08:17 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.769 ug/l

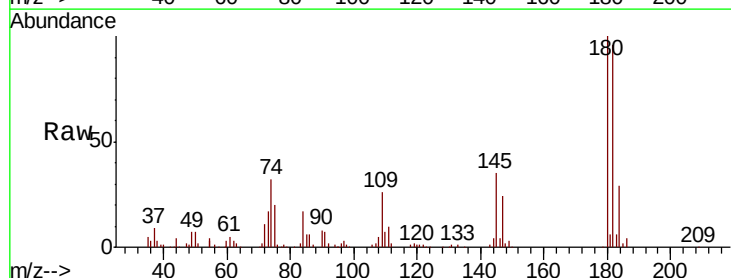
RT: 14.59 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VF061248.D

Acq: 2 Jan 2019 12:16

Tgt Ion:	180	Resp:	72153
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.9	143.8
145	35.4	18.6	55.8



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

