

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062083.D
 Acq On : 22 Mar 2019 15:27
 Operator : VA/AP
 Sample : VF0322SBS01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:15 AM

Quant Time: Mar 23 06:02:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	290269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	448575	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	387553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	197898	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	113625	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
35) Dibromofluoromethane	4.15	113	161494	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	
50) Toluene-d8	7.58	98	480847	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
62) 4-Bromofluorobenzene	11.44	95	181212	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	84387	22.693	ug/l	98
3) Chloromethane	1.11	50	89502	23.003	ug/l	99
4) Vinyl Chloride	1.15	62	86092	23.921	ug/l	97
5) Bromomethane	1.34	94	53528	20.690	ug/l	96
6) Chloroethane	1.40	64	37502	20.699	ug/l	95
7) Trichlorofluoromethane	1.50	101	94436	21.726	ug/l	96
8) Diethyl Ether	1.64	74	21116	21.267	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.85	101	66854	22.545	ug/l	97
10) Methyl Iodide	1.93	142	122226m	21.690	ug/l	
11) Tert butyl alcohol	2.59	59	14313	120.485	ug/l	100
12) 1,1-Dichloroethene	1.81	96	60898	21.765	ug/l	95
13) Acrolein	2.02	56	16532	115.729	ug/l	92
14) Allyl chloride	2.12	41	70902	23.735	ug/l	95
15) Acrylonitrile	2.97	53	45284	108.403	ug/l	96
16) Acetone	2.26	43	50921	112.061	ug/l	96
17) Carbon Disulfide	1.84	76	190380m	22.313	ug/l	
18) Methyl Acetate	2.37	43	24803	22.882	ug/l	91
19) Methyl tert-butyl Ether	2.45	73	101143	22.872	ug/l	99
20) Methylene Chloride	2.21	84	69583m	23.784	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	64148	23.828	ug/l	98
22) Diisopropyl ether	2.83	45	178694	22.816	ug/l	96
23) Vinyl Acetate	3.21	43	412203	128.544	ug/l	99
24) 1,1-Dichloroethane	2.90	63	97758	20.814	ug/l	98
25) 2-Butanone	4.37	43	106589	112.361	ug/l	99
26) 2,2-Dichloropropane	3.63	77	43506	22.846	ug/l	95
27) cis-1,2-Dichloroethene	3.51	96	78881	22.112	ug/l	94
28) Bromochloromethane	3.75	49	45414	23.666	ug/l	89
29) Tetrahydrofuran	4.11	42	47064	114.108	ug/l	98
30) Chloroform	3.89	83	111854	22.535	ug/l	99
31) Cyclohexane	3.72	56	108268m	22.071	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	66446	22.006	ug/l	96
36) 1,1-Dichloropropene	4.32	75	95341	22.314	ug/l	97
37) Ethyl Acetate	4.15	43	39325	21.060	ug/l	93
38) Carbon Tetrachloride	4.02	117	64300	22.080	ug/l	98

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	111734	22.532	ug/l	98
40) Benzene	4.67	78	252739	22.065	ug/l	100
41) Methacrylonitrile	4.78	41	21025	21.280	ug/l	90
42) 1,2-Dichloroethane	4.98	62	56028	20.685	ug/l	98
43) Isopropyl Acetate	6.99	43	48890	21.620	ug/l #	91
44) Trichloroethene	5.54	130	79288	22.641	ug/l	97
45) 1,2-Dichloropropane	6.26	63	59365	21.730	ug/l	99
46) Dibromomethane	6.11	93	36558	21.886	ug/l	89
47) Bromodichloromethane	6.42	83	77918	21.059	ug/l	93
48) Methyl methacrylate	6.75	41	30863	23.970	ug/l	94
49) 1,4-Dioxane	6.74	88	5359	474.334	ug/l	91
51) 4-Methyl-2-Pentanone	8.29	43	165660	109.450	ug/l	98
52) Toluene	7.65	92	137179	20.677	ug/l	95
53) t-1,3-Dichloropropene	8.31	75	63431	21.839	ug/l	97
54) cis-1,3-Dichloropropene	7.33	75	89781	21.603	ug/l	97
55) 1,1,2-Trichloroethane	8.52	97	42262	22.427	ug/l	95
56) Ethyl methacrylate	8.65	69	47170	20.988	ug/l #	89
57) 1,3-Dichloropropane	8.88	76	68455	21.887	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.32	63	32662	95.774	ug/l	94
59) 2-Hexanone	9.52	43	129440	116.686	ug/l	97
60) Dibromochloromethane	8.74	129	57033	21.771	ug/l	100
61) 1,2-Dibromoethane	9.02	107	44415	22.092	ug/l	97
64) Tetrachloroethene	8.18	164	62403	20.842	ug/l	96
65) Chlorobenzene	9.83	112	159382	21.980	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.96	131	61501	21.114	ug/l	97
67) Ethyl Benzene	9.93	91	279965	22.200	ug/l	100
68) m/p-Xylenes	10.16	106	213846	45.370	ug/l	99
69) o-Xylene	10.74	106	104437	21.156	ug/l	91
70) Styrene	10.81	104	161711	21.620	ug/l	98
71) Bromoform	10.79	173	31186	20.932	ug/l	97
73) Isopropylbenzene	11.15	105	318311	22.858	ug/l	99
74) N-amyl acetate	11.40	43	73194	22.059	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.71	83	52110	21.794	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	36269	21.554	ug/l	93
77) Bromobenzene	11.51	156	75378	22.156	ug/l	82
78) n-propylbenzene	11.61	91	369730	22.865	ug/l	98
79) 2-Chlorotoluene	11.74	91	206728	23.001	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	250953	21.909	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.89	75	15354m	22.393	ug/l	
82) 4-Chlorotoluene	11.92	91	209677	22.753	ug/l	99
83) tert-Butylbenzene	12.15	119	266498	22.226	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	249858	22.252	ug/l	97
85) sec-Butylbenzene	12.32	105	349279	22.517	ug/l	99
86) p-Isopropyltoluene	12.48	119	294812	21.937	ug/l	97
87) 1,3-Dichlorobenzene	12.49	146	137742	21.792	ug/l	96
88) 1,4-Dichlorobenzene	12.58	146	131188	21.270	ug/l	94
89) n-Butylbenzene	12.87	91	297335	23.191	ug/l	98
90) Hexachloroethane	12.93	117	70196	21.937	ug/l	91
91) 1,2-Dichlorobenzene	12.96	146	135758	22.873	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.66	75	7868	21.718	ug/l	74

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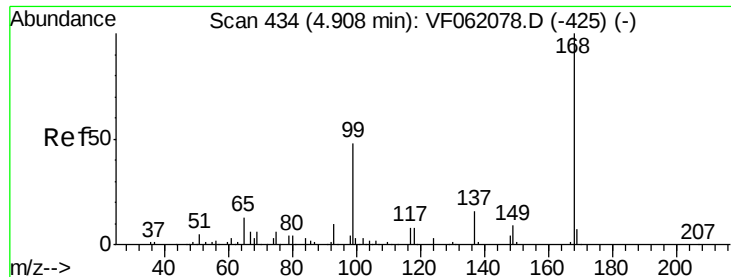
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	95672	23.128	µg/l	97
94) Hexachlorobutadiene	14.21	225	60084	21.846	µg/l	96
95) Naphthalene	14.47	128	156511	21.591	µg/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	85033	21.961	µg/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion:168 Resp: 290269

Ion Ratio Lower Upper

168 100

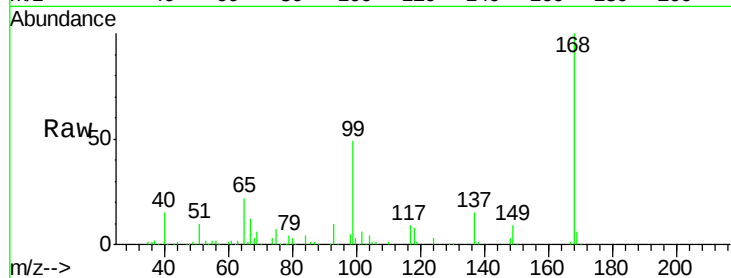
99 49.3 38.2 57.4

Manual Integrations

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3/27/2019 11:57:15 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

100000

80000

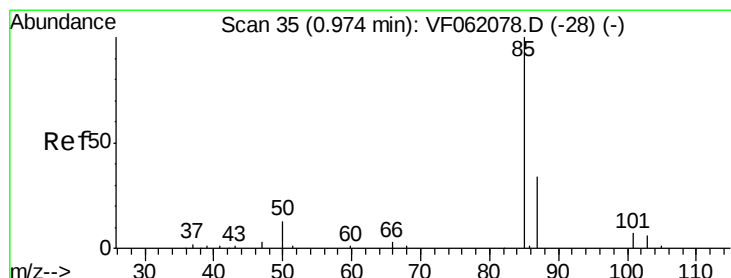
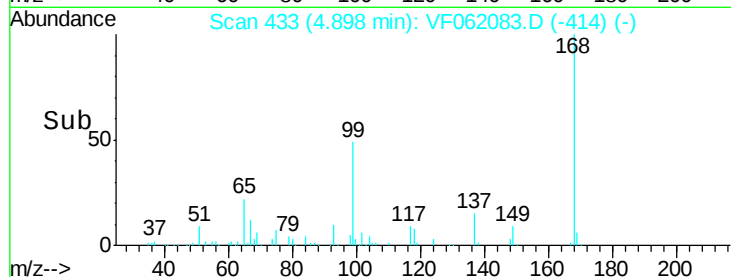
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.693 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062083.D

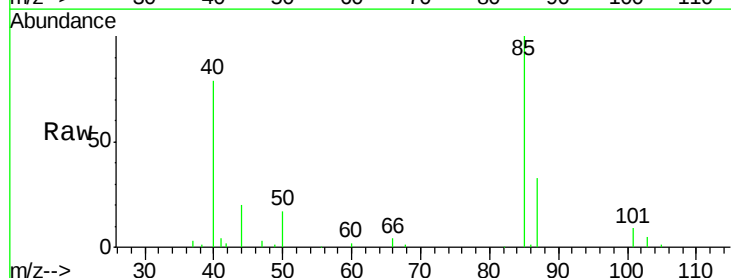
Acq: 22 Mar 2019 15:27

Tgt Ion: 85 Resp: 84387

Ion Ratio Lower Upper

85 100

87 32.6 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

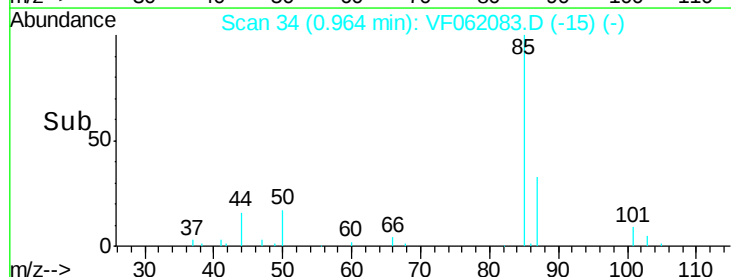
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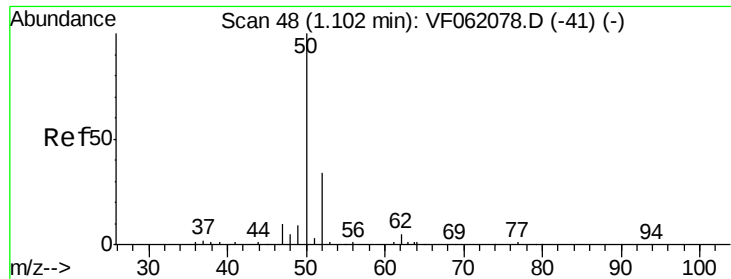
10000

5000

0

Time-->





#3

Chloromethane

Concen: 23.003 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 50 Resp: 89502

Ion Ratio Lower Upper

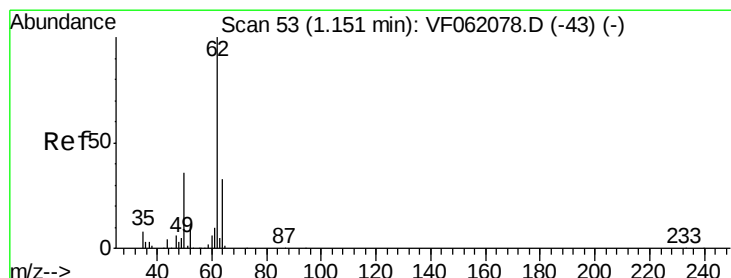
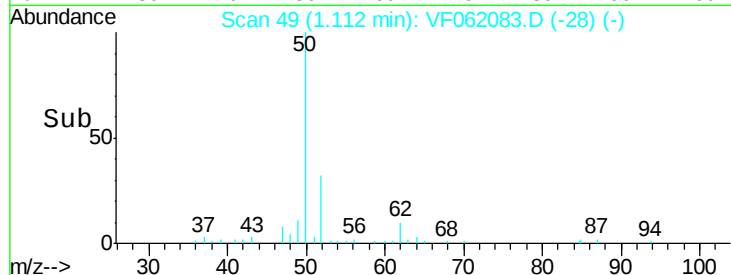
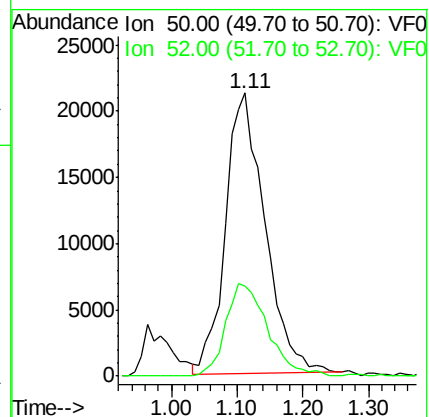
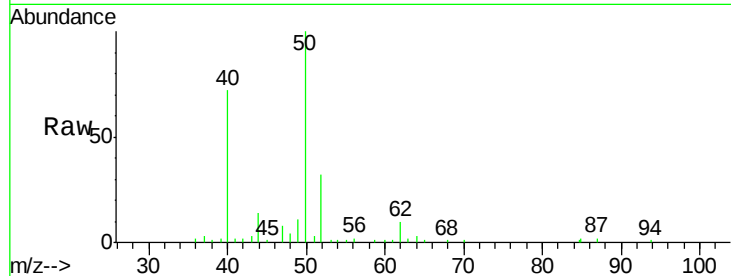
50 100

52 31.8 26.1 39.1

Manual Integrations
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#4

Vinyl Chloride

Concen: 23.921 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062083.D

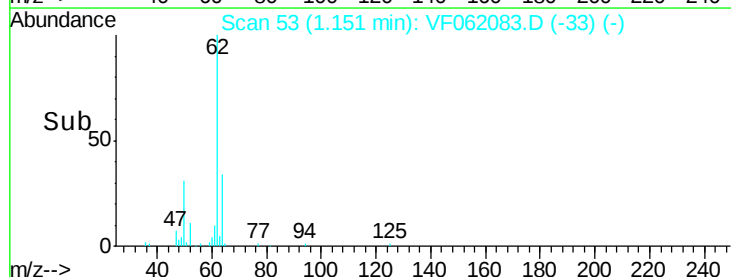
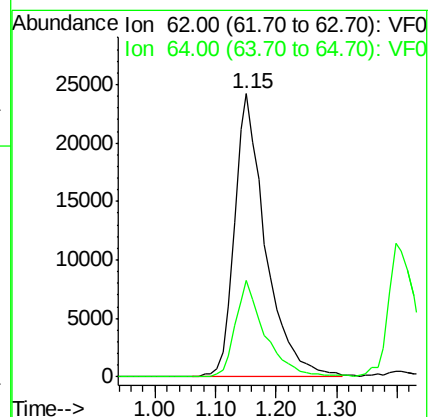
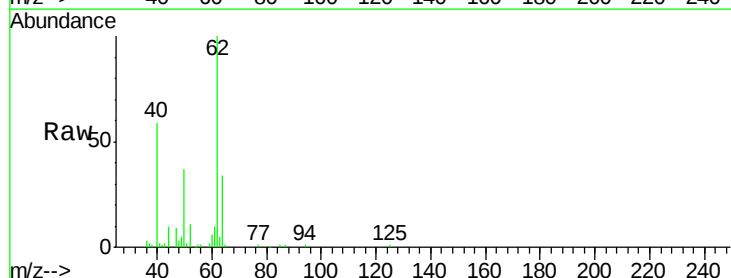
Acq: 22 Mar 2019 15:27

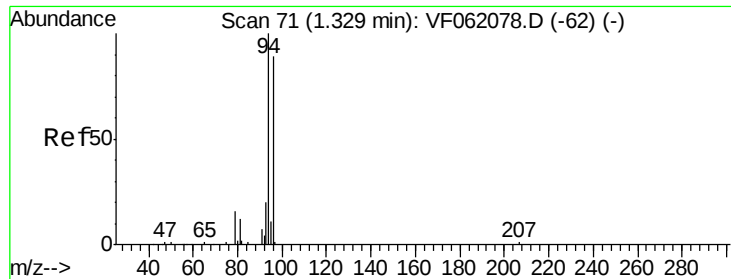
Tgt Ion: 62 Resp: 86092

Ion Ratio Lower Upper

62 100

64 34.2 26.2 39.2





#5

Bromomethane

Concen: 20.690 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 94 Resp: 53528

Ion Ratio Lower Upper

94 100

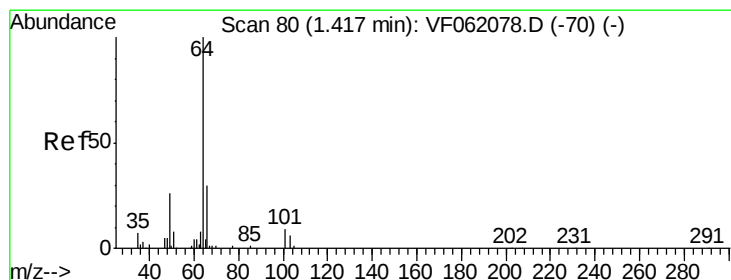
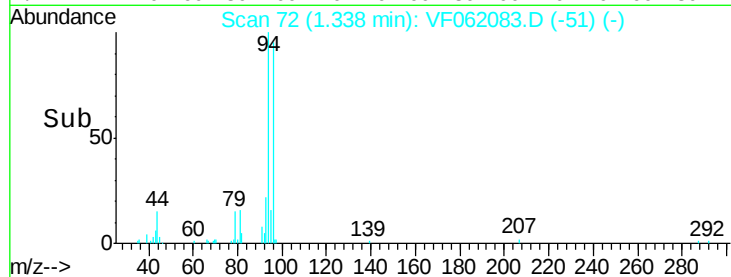
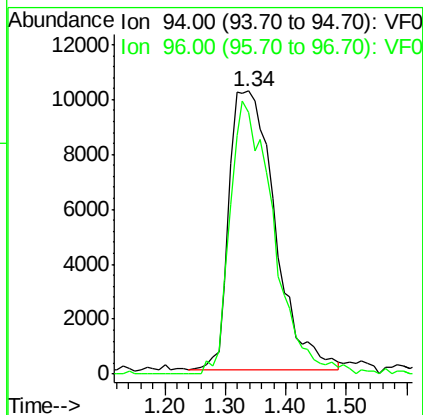
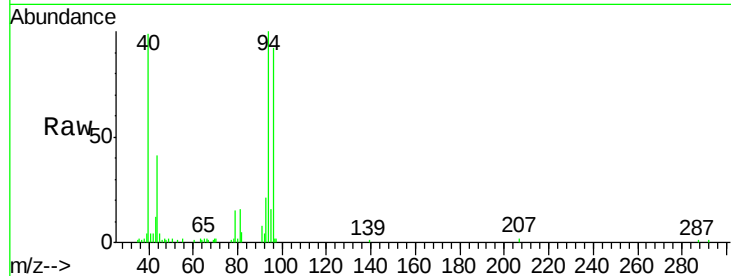
96 92.3 70.9 106.3

Manual Integrations

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#6

Chloroethane

Concen: 20.699 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.02 min

Lab File: VF062083.D

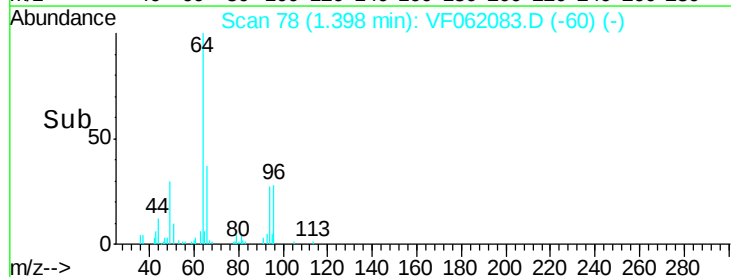
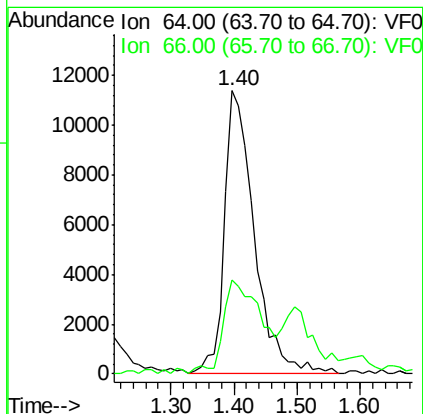
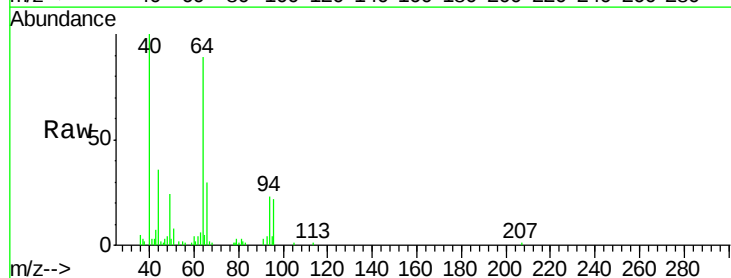
Acq: 22 Mar 2019 15:27

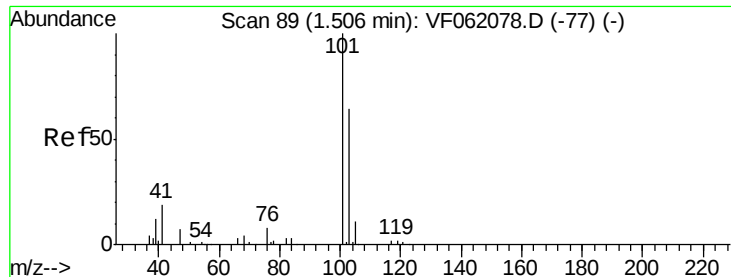
Tgt Ion: 64 Resp: 37502

Ion Ratio Lower Upper

64 100

66 33.1 24.5 36.7





#7

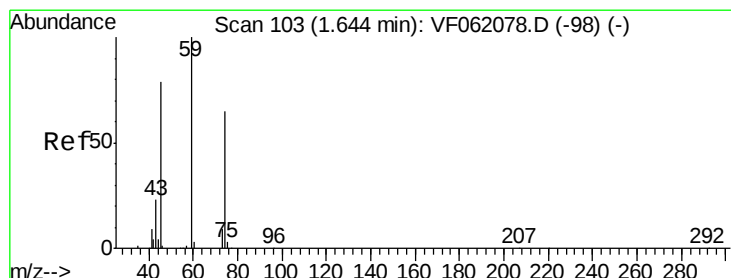
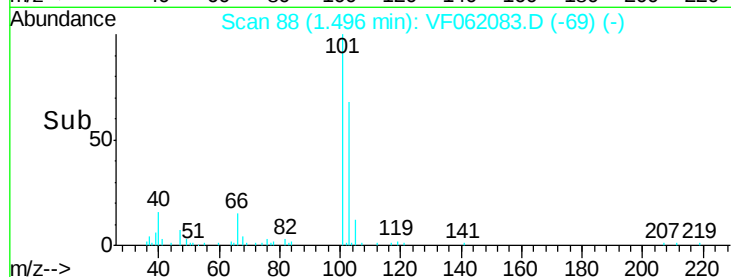
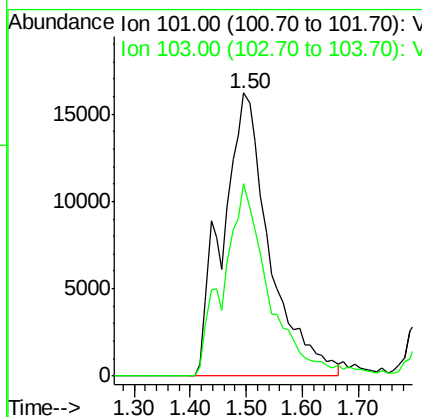
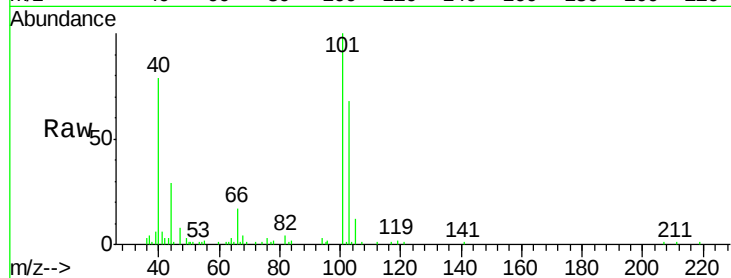
Trichlorofluoromethane
Concen: 21.726 ug/l
RT: 1.50 min Scan# 88
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
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ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.9	51.5	77.3

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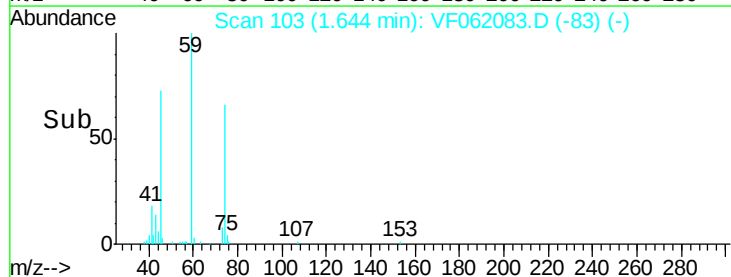
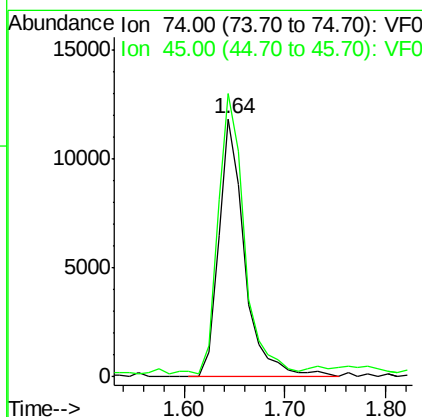
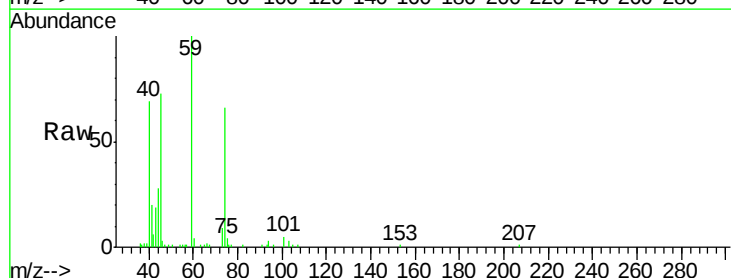
MMDadoda
3/27/2019 11:57:15 AM

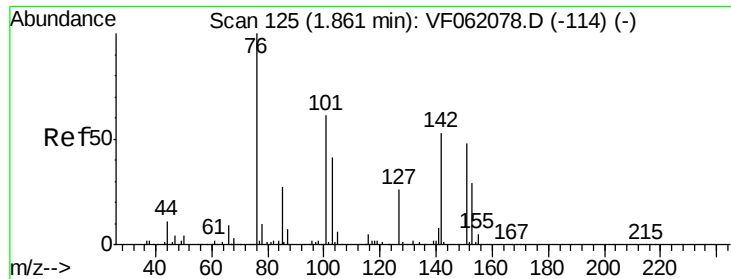


#8

Diethyl Ether
Concen: 21.267 ug/l
RT: 1.64 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.7	61.4	184.2





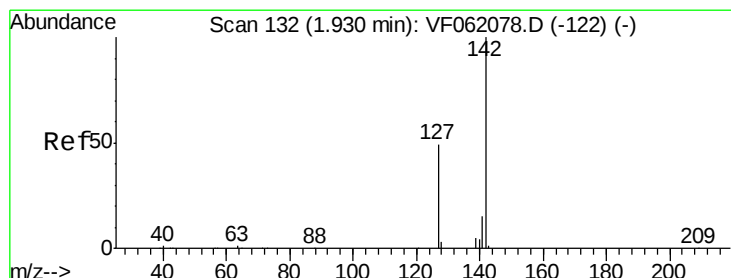
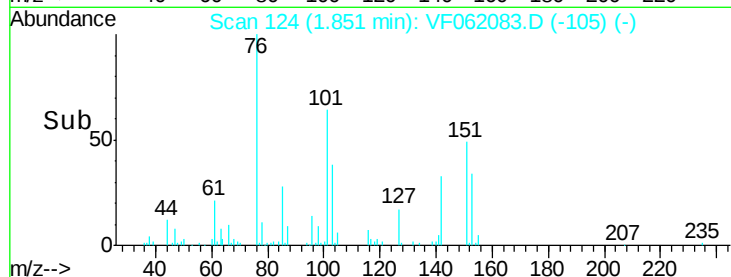
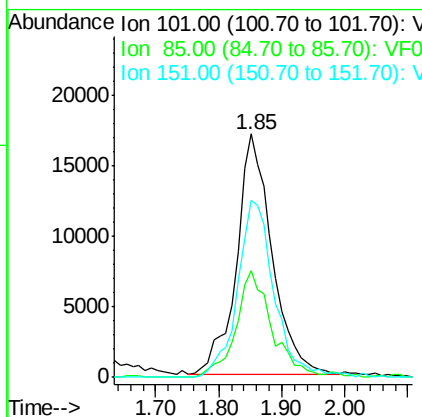
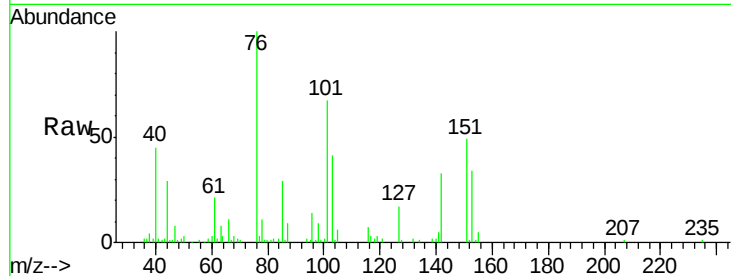
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 22.545 ug/l
 RT: 1.85 min Scan# 124
 Delta R.T. -0.01 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
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 VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	66854		
85	43.6		34.6	52.0
151	72.6		61.7	92.5

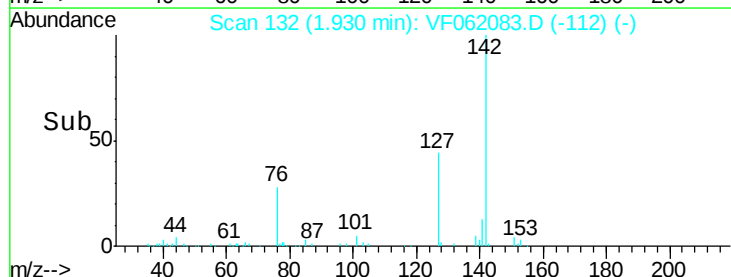
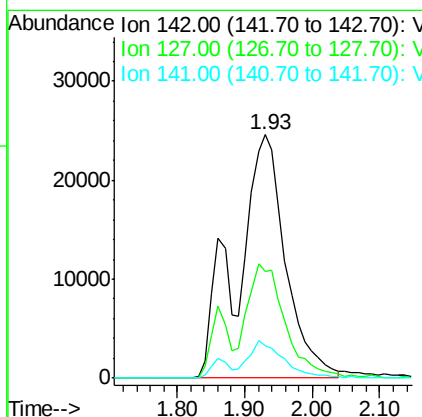
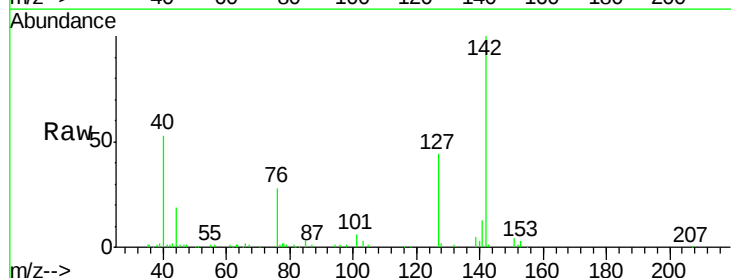
Manual Integrations
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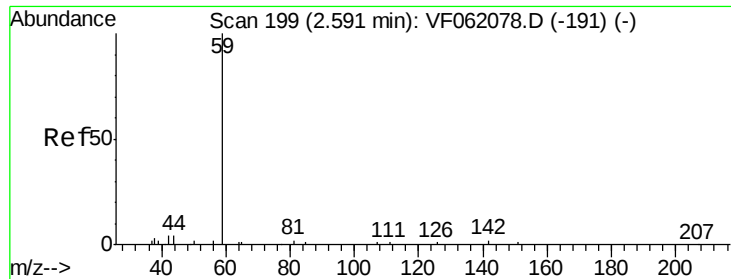
MMDadoda
 3/27/2019 11:57:15 AM



#10
 Methyl Iodide
 Concen: 21.690 ug/l m
 RT: 1.93 min Scan# 132
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	122226		
127	43.8		39.1	58.7
141	13.5		12.2	18.4





#11

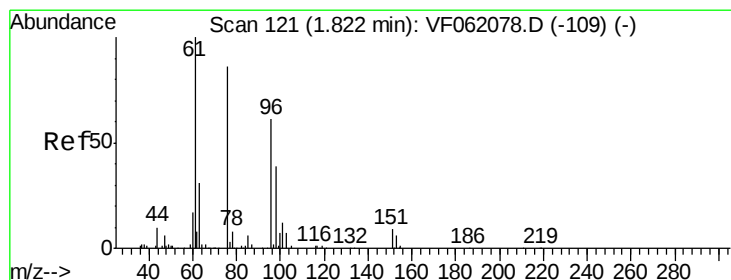
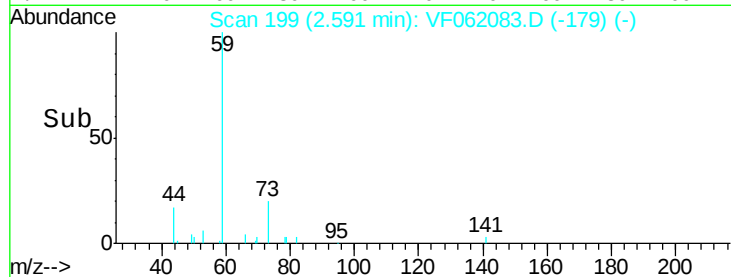
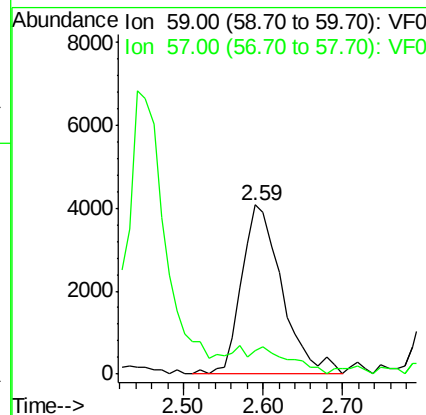
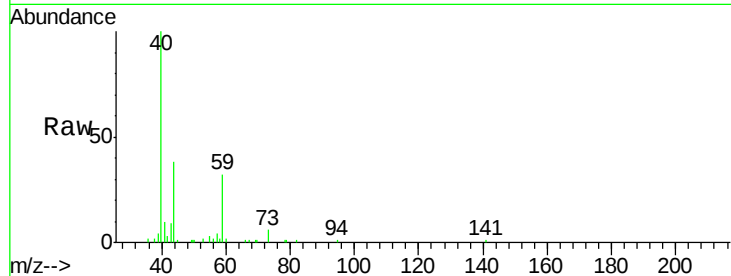
Tert butyl alcohol
Concen: 120.485 ug/l
RT: 2.59 min Scan# 199
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	59	Resp	14313
Ion Ratio	100	Lower	Upper
57	13.8	11.0	16.4

Manual Integrations
APPROVED

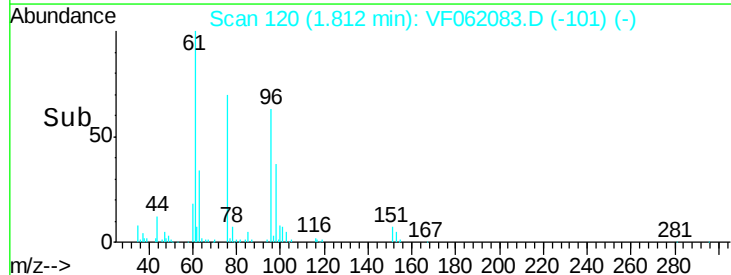
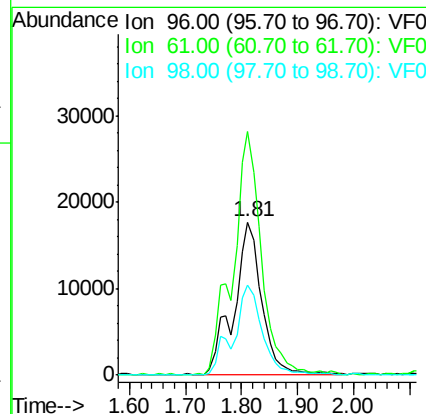
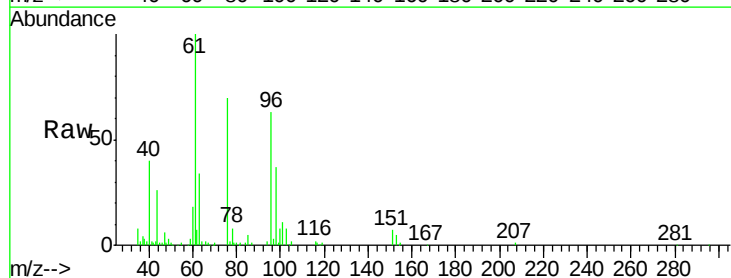
MMDadoda
3/27/2019 11:57:15 AM

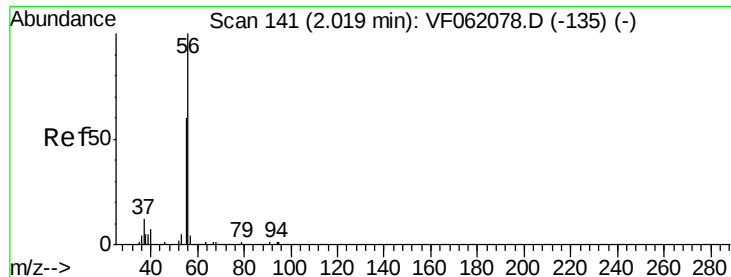


#12

1,1-Dichloroethene
Concen: 21.765 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	96	Resp	60898
Ion Ratio	100	Lower	Upper
61	159.1	131.0	196.6
98	58.6	51.5	77.3





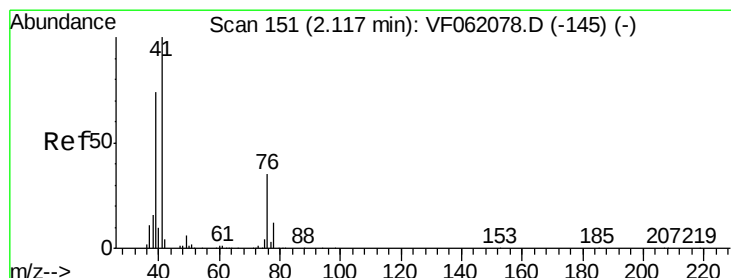
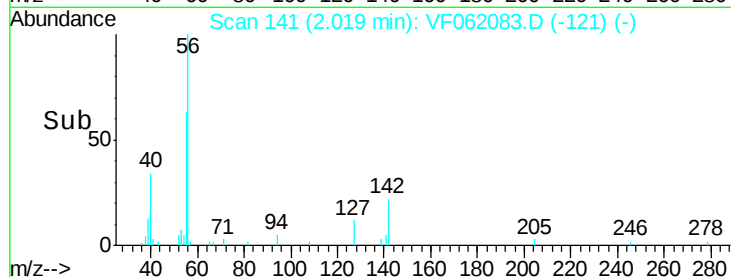
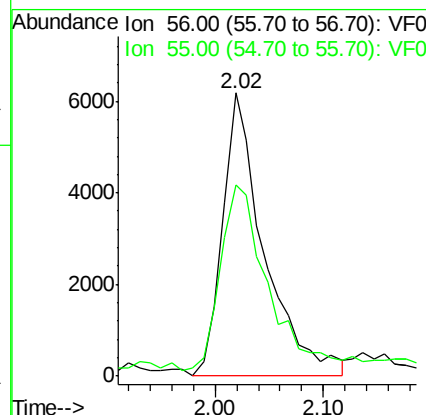
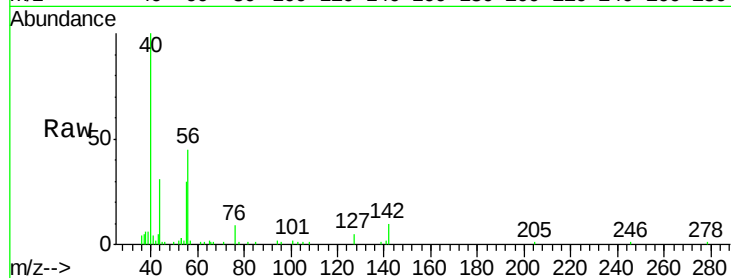
#13
Acrolein
Concen: 115.729 ug/l
RT: 2.02 min Scan# 141
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	56	Resp	16532
Ion Ratio	100	Lower	Upper
55	67.4	49.0	73.4

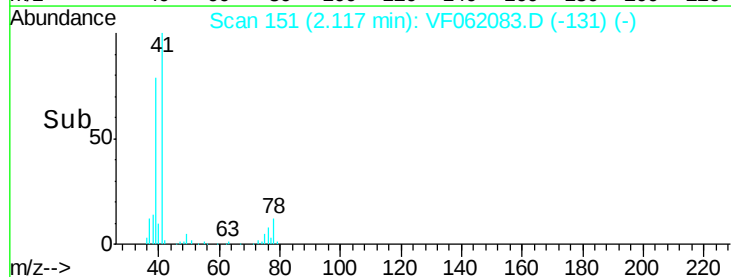
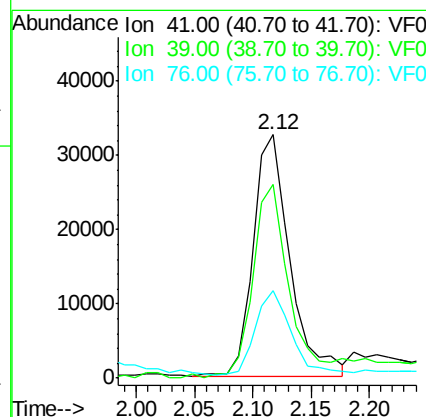
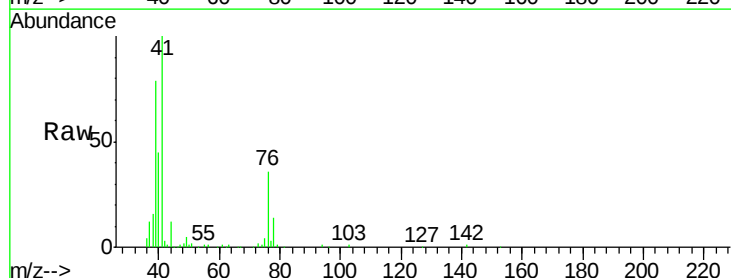
Manual Integrations
APPROVED

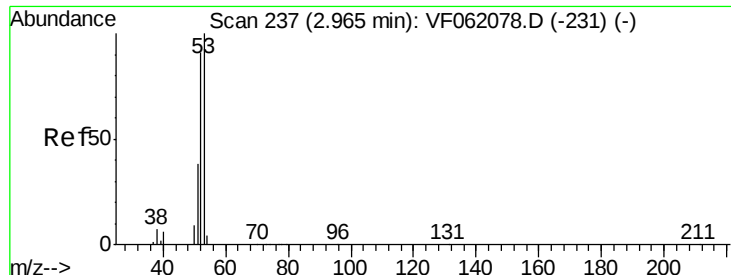
MMDadoda
3/27/2019 11:57:15 AM



#14
Allyl chloride
Concen: 23.735 ug/l
RT: 2.12 min Scan# 151
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	41	Resp	70902
Ion Ratio	100	Lower	Upper
39	79.3	59.8	89.8
76	35.7	30.0	45.0





#15

Acrylonitrile

Concen: 108.403 ug/l

RT: 2.97 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

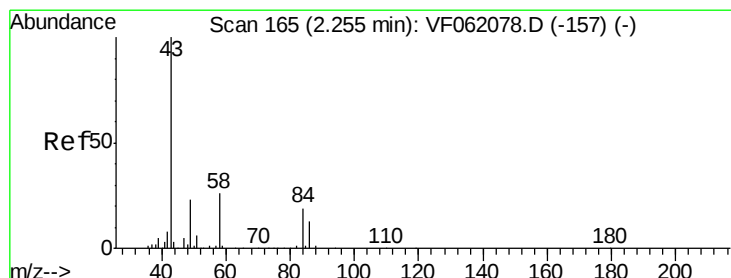
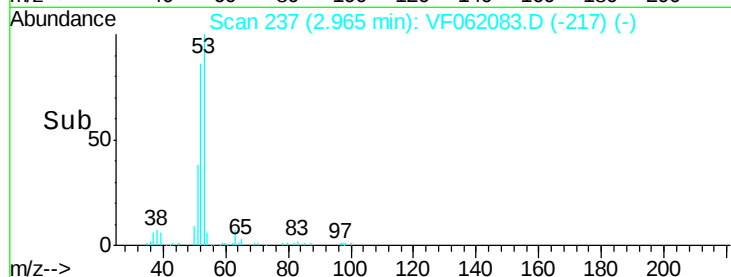
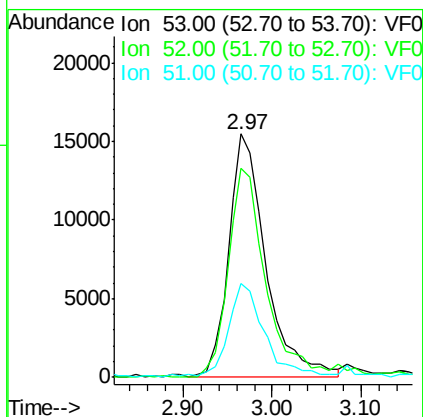
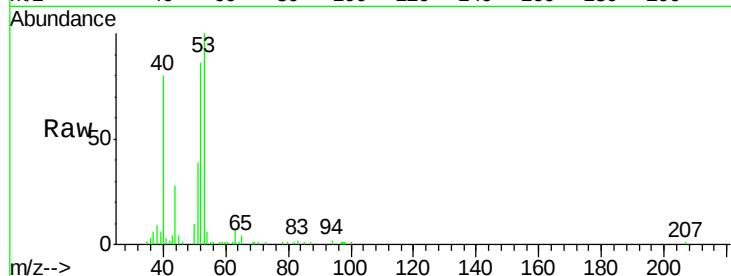
ClientSampleId :

VF0322SBS01

Tot Ion:	53	Resp:	45284
Ion	Ratio	Lower	Upper
53	100		
52	86.0	72.3	108.5
51	38.5	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 112.061 ug/l

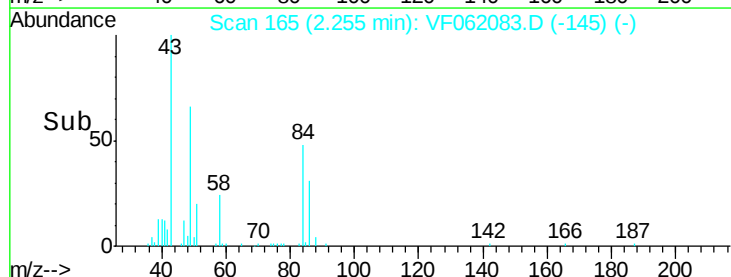
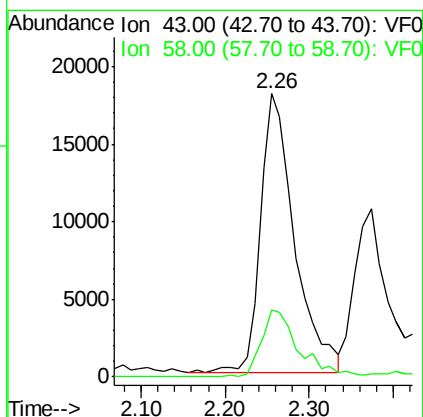
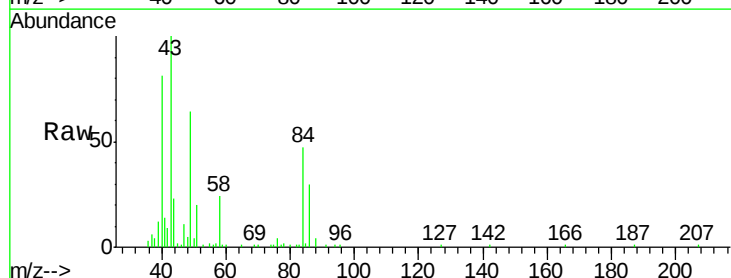
RT: 2.26 min Scan# 165

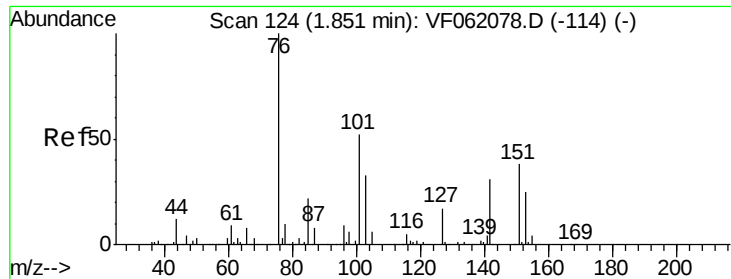
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	43	Resp:	50921
Ion	Ratio	Lower	Upper
43	100		
58	23.8	20.8	31.2





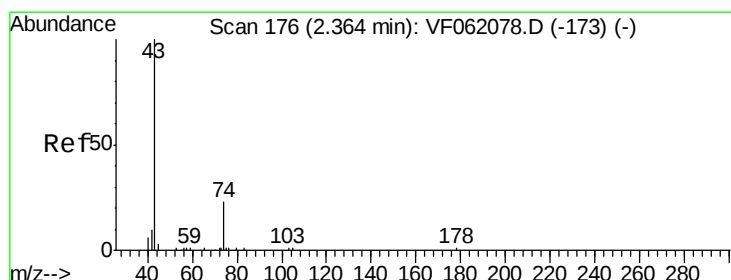
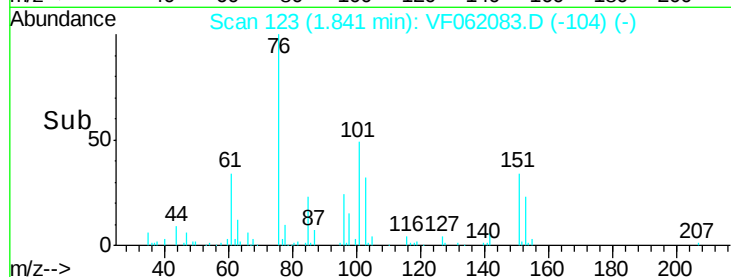
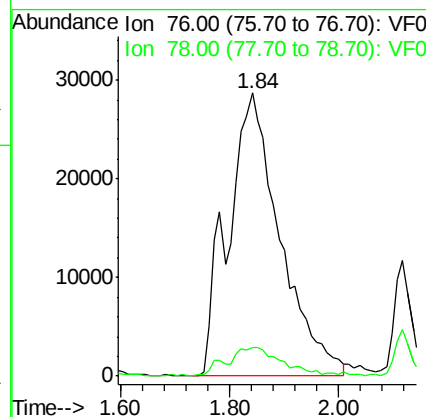
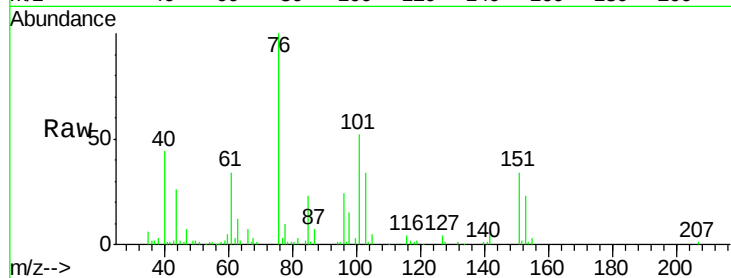
#17
Carbon Disulfide
Concen: 22.313 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion: 76 Resp: 190380
Ion Ratio Lower Upper
76 100
78 10.3 7.9 11.9

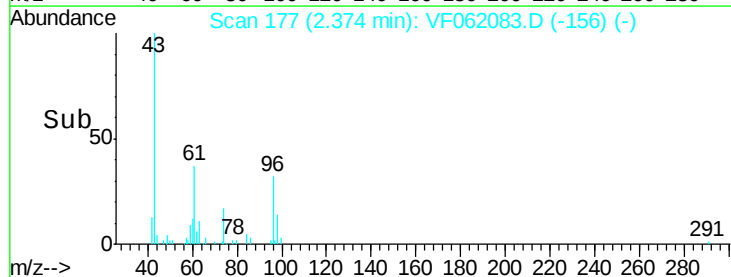
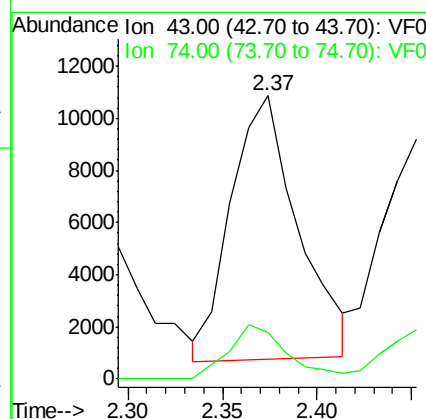
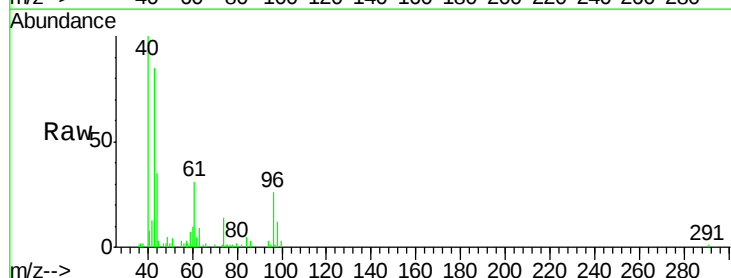
Manual Integrations
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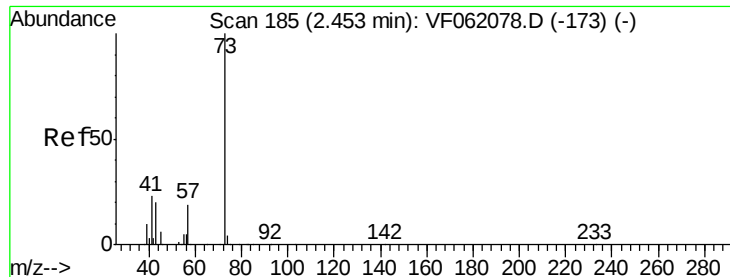
MMDadoda
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#18
Methyl Acetate
Concen: 22.882 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion: 43 Resp: 24803
Ion Ratio Lower Upper
43 100
74 16.4 16.3 24.5





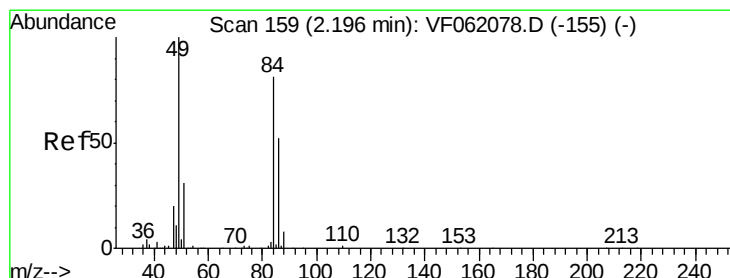
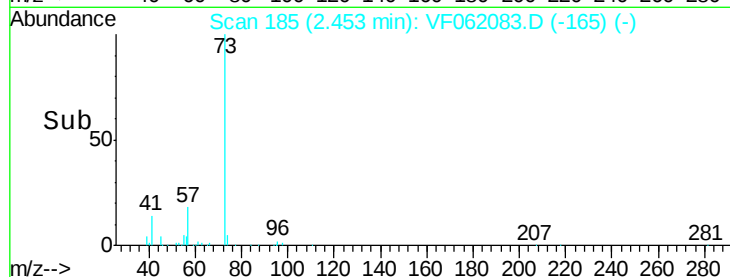
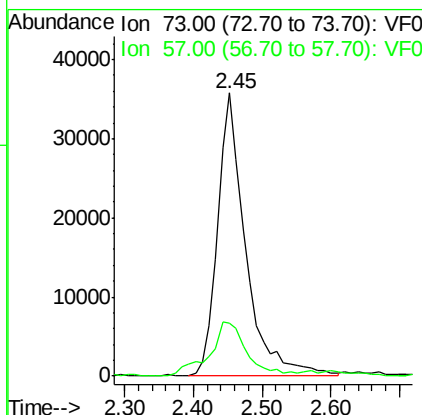
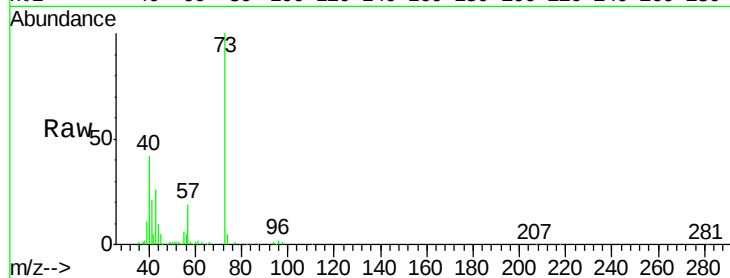
#19
Methvl tert-butvl Ether
Concen: 22.872 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion: 73 Resp: 101143
Ion Ratio Lower Upper
73 100
57 18.6 15.1 22.7

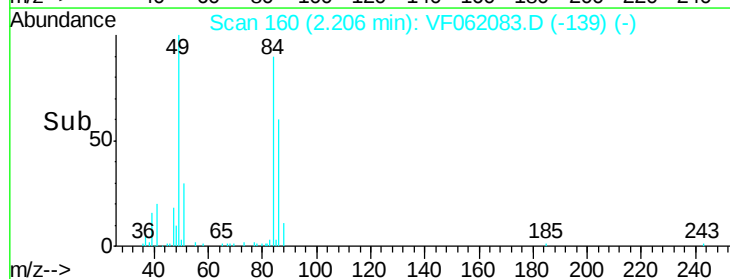
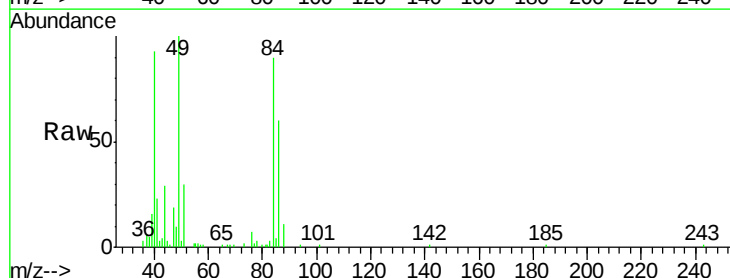
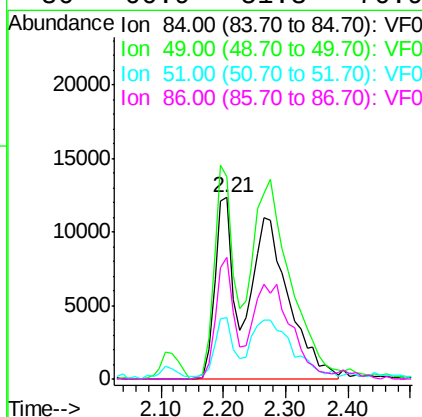
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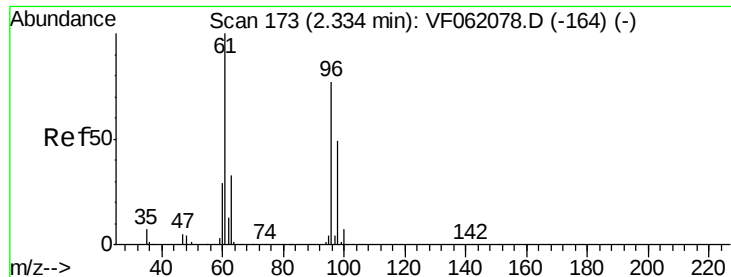
MMDadoda
3/27/2019 11:57:15 AM



#20
Methylene Chloride
Concen: 23.784 ug/l m
RT: 2.21 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion: 84 Resp: 69583
Ion Ratio Lower Upper
84 100
49 111.5 100.4 150.6
51 33.7 31.0 46.6
86 66.9 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 23.828 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

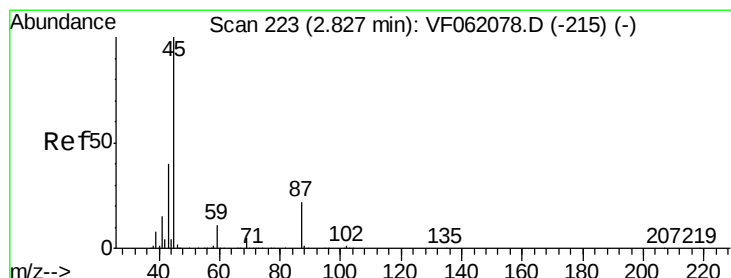
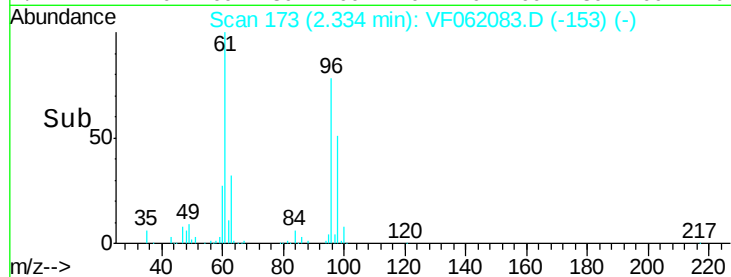
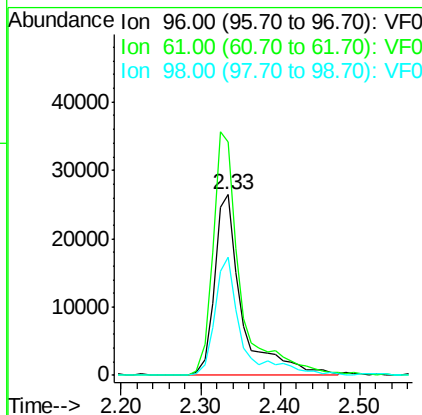
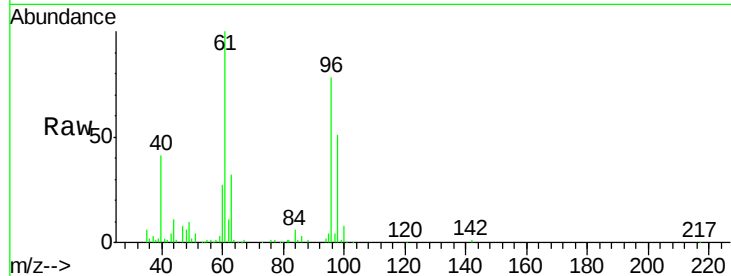
ClientSampleId :

VF0322SBS01

Tot Ion:	96	Resp:	64148
Ion	Ratio	Lower	Upper
96	100		
61	128.9	104.5	156.7
98	65.4	51.2	76.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.816 ug/l

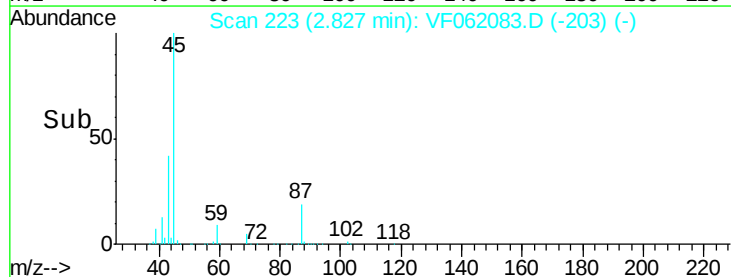
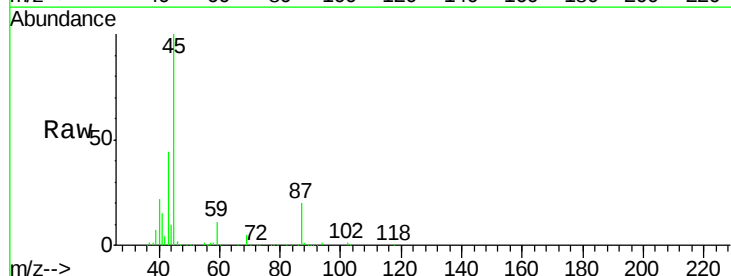
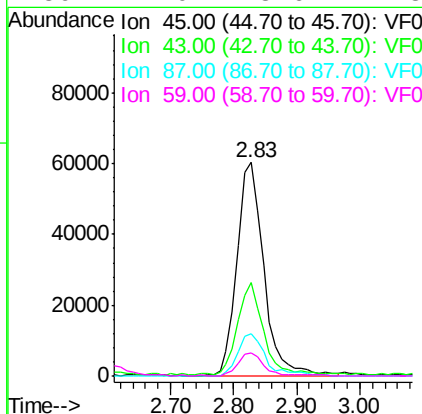
RT: 2.83 min Scan# 223

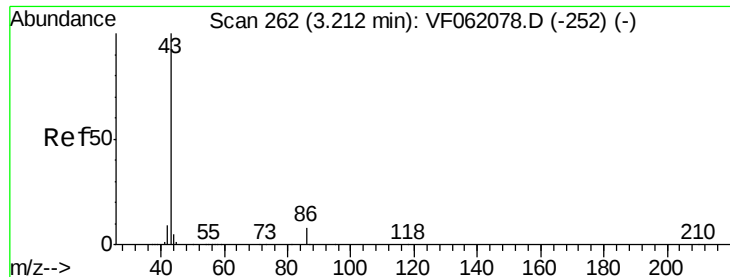
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	45	Resp:	178694
Ion	Ratio	Lower	Upper
45	100		
43	43.6	32.5	48.7
87	19.6	17.4	26.2
59	11.0	8.6	12.8





#23

Vinyl Acetate

Concen: 128.544 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 43 Resp: 412203

Ion Ratio Lower Upper

43 100

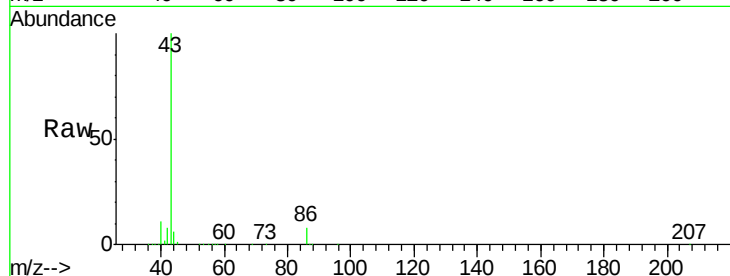
86 8.1 6.8 10.2

Manual Integrations

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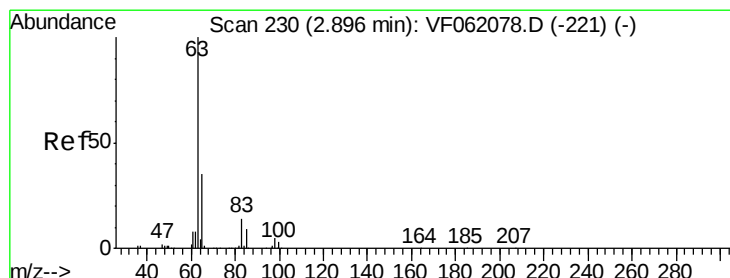
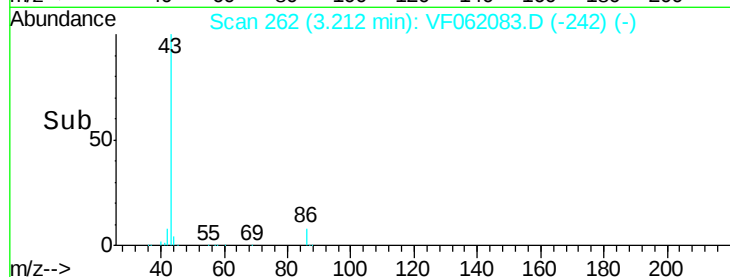
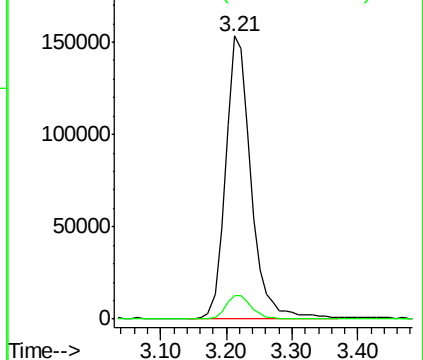
MMDadoda

3/27/2019 11:57:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 20.814 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

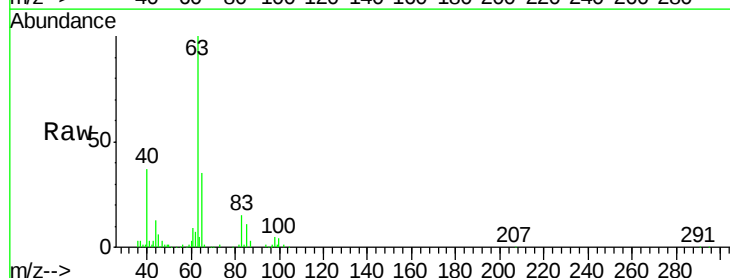
Tgt Ion: 63 Resp: 97758

Ion Ratio Lower Upper

63 100

98 4.9 2.7 8.1

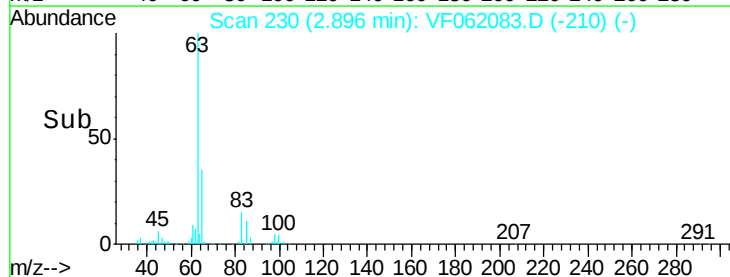
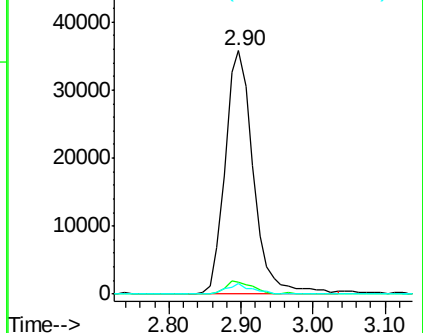
100 4.2 1.7 5.1

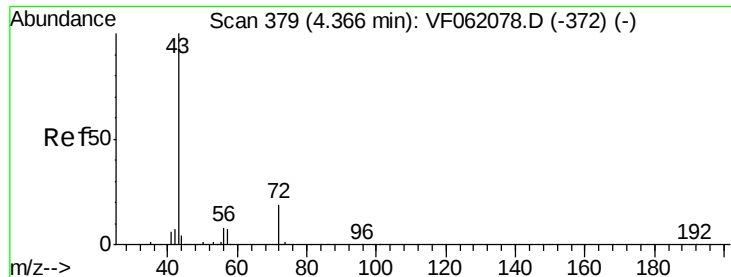


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 112.361 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 43 Resp: 106589

Ion Ratio Lower Upper

43 100

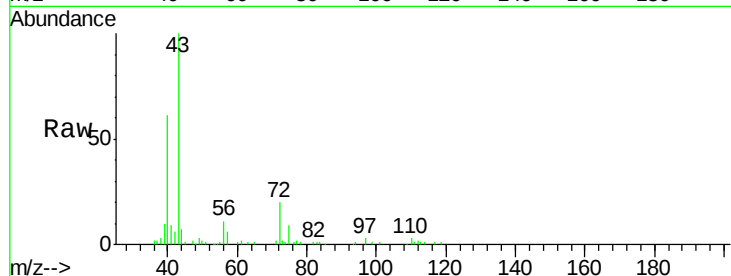
72 20.3 16.7 25.1

Manual Integrations

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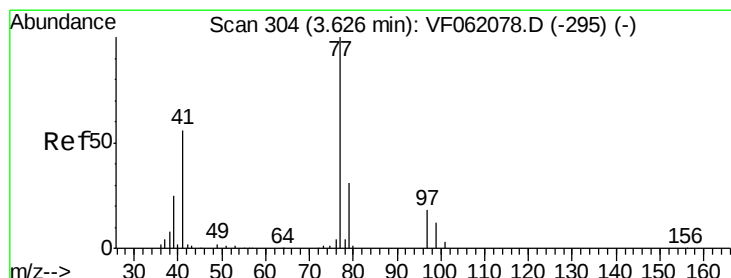
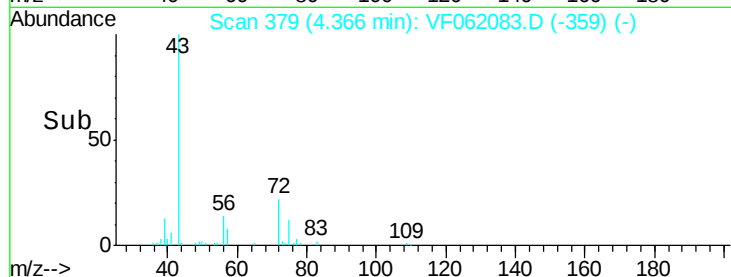
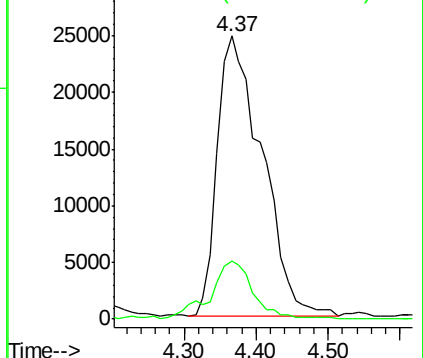
MMDadoda

3/27/2019 11:57:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 22.846 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.00 min

Lab File: VF062083.D

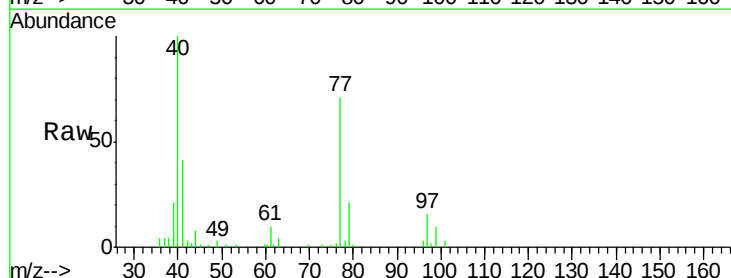
Acq: 22 Mar 2019 15:27

Tgt Ion: 77 Resp: 43506

Ion Ratio Lower Upper

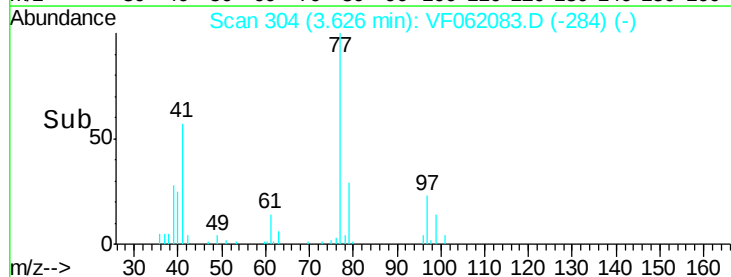
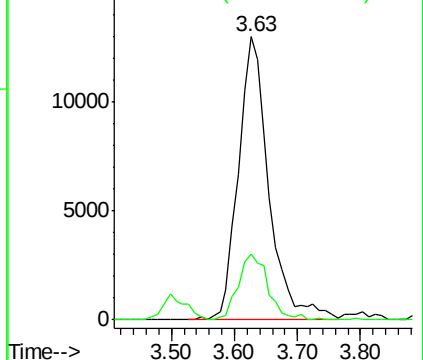
77 100

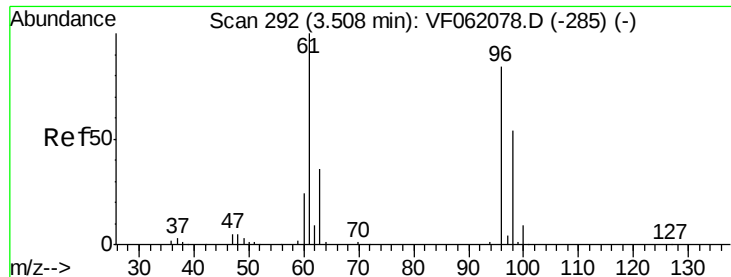
97 23.1 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

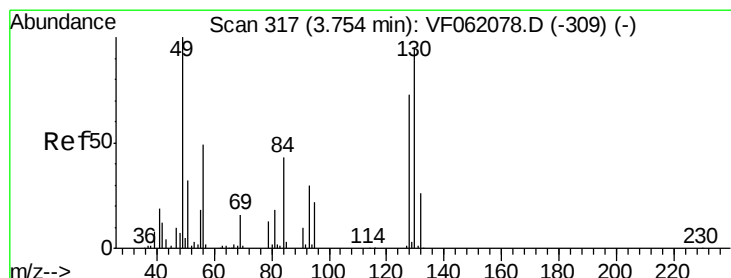
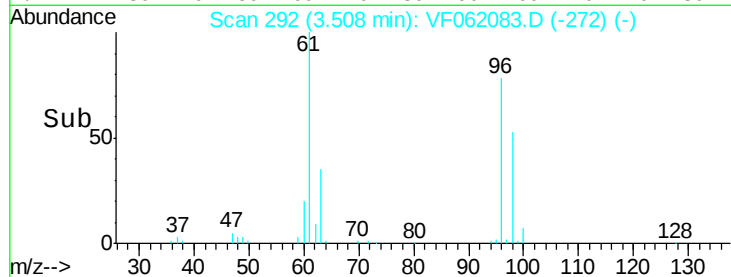
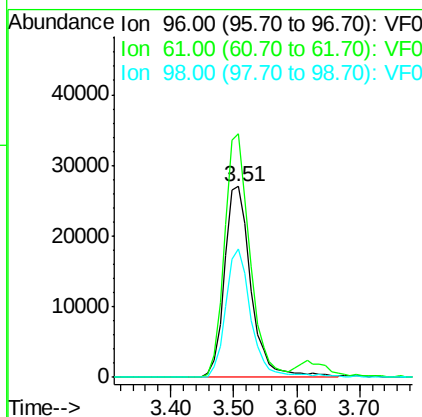
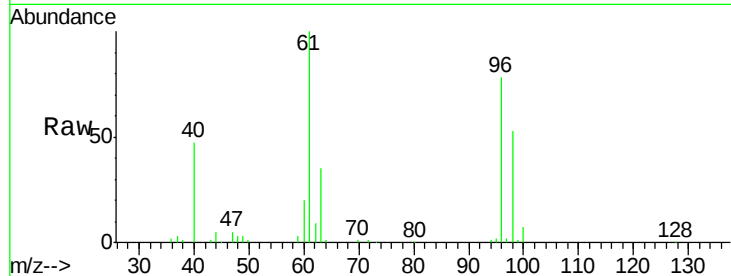
cis-1,2-Dichloroethene
 Concen: 22.112 ug/l
 RT: 3.51 min Scan# 292
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.6	0.0	239.0
98	67.1	0.0	128.2

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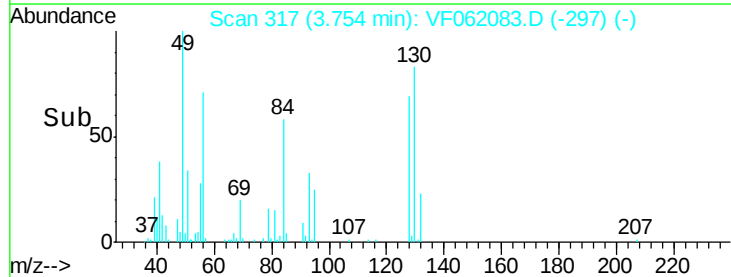
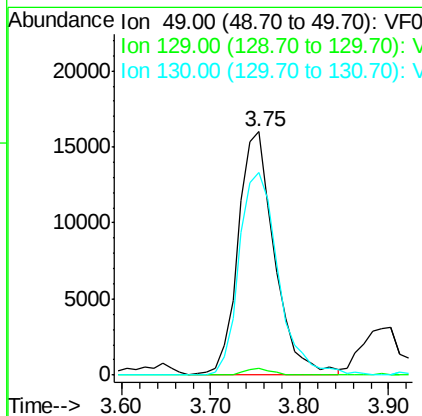
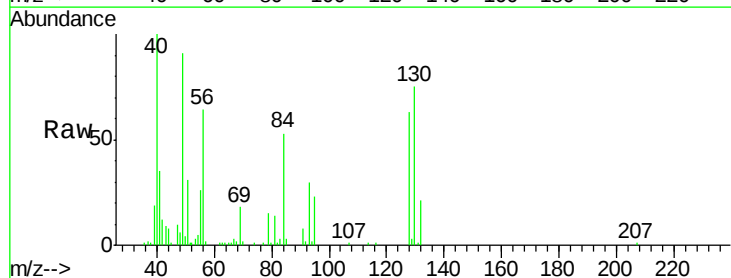
MMDadoda
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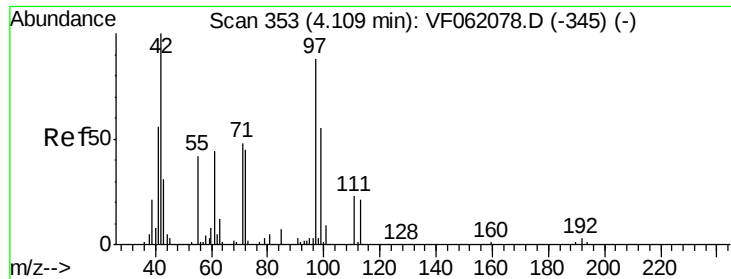


#28

Bromochloromethane
 Concen: 23.666 ug/l
 RT: 3.75 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	83.1	75.5	113.3





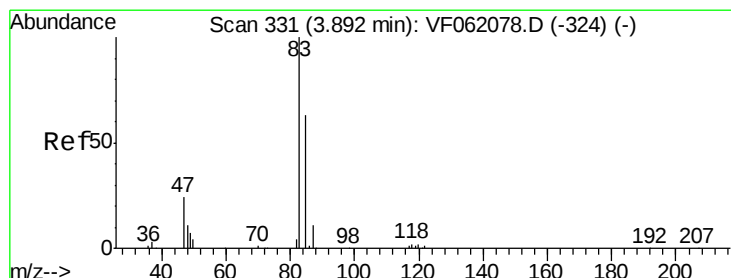
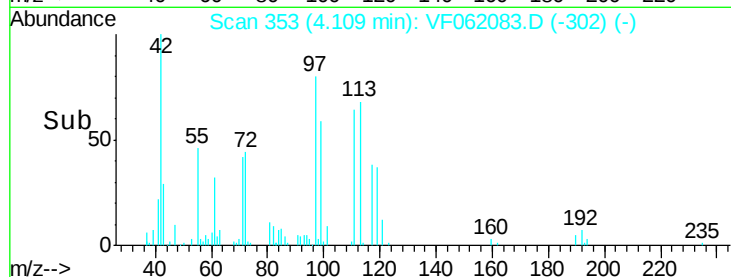
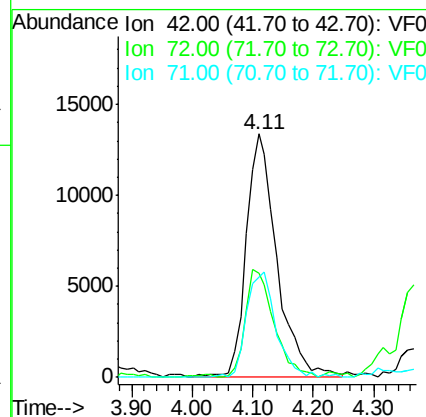
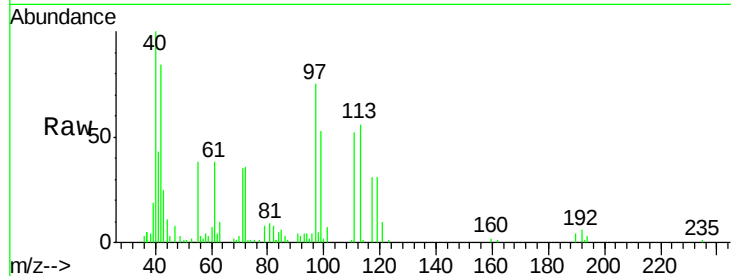
#29
Tetrahydrofuran
Concen: 114.108 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.3	49.9
71	41.7	35.0	52.4

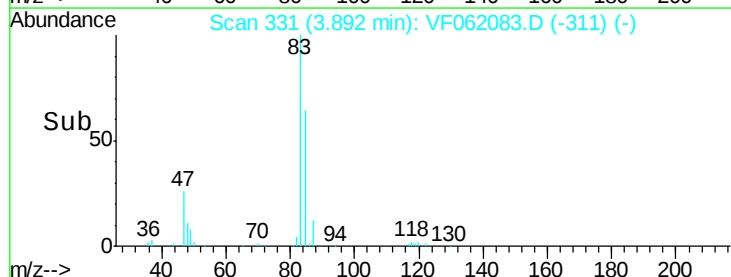
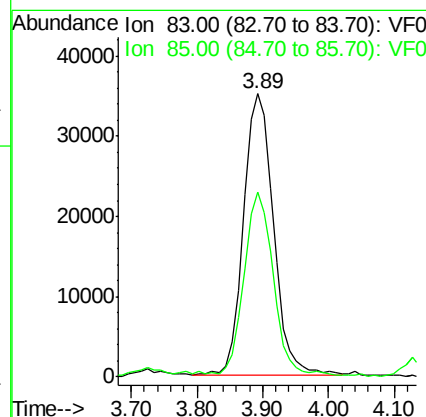
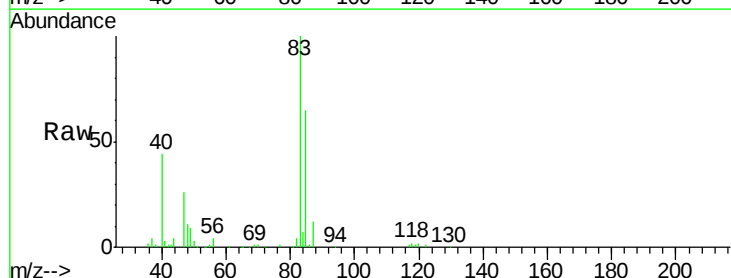
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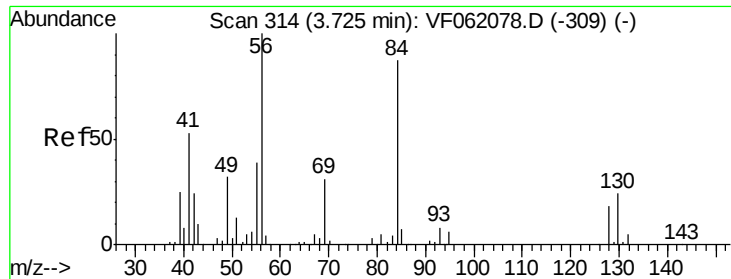
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#30
Chloroform
Concen: 22.535 ug/l
RT: 3.89 min Scan# 331
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.5	77.3





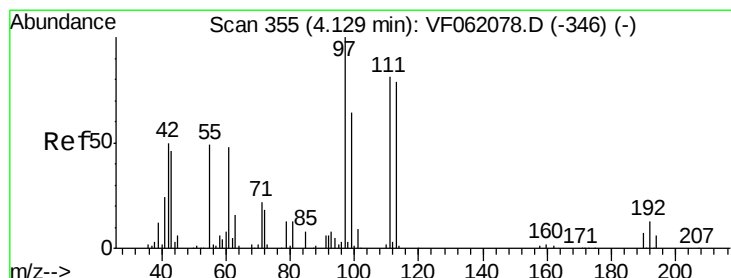
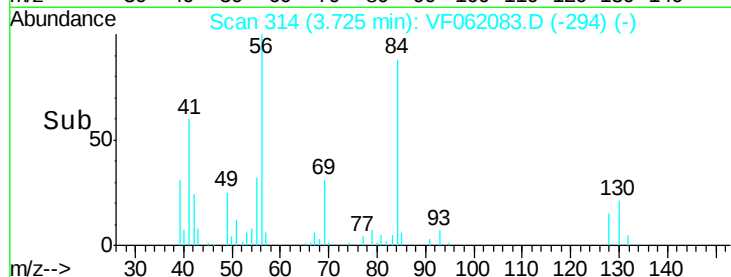
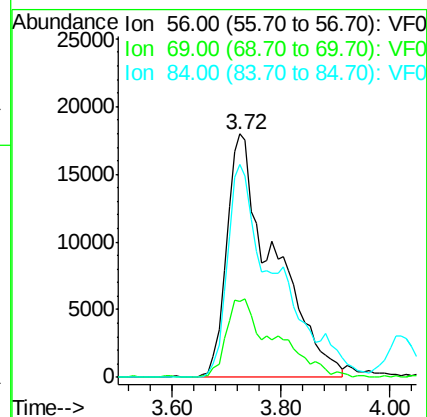
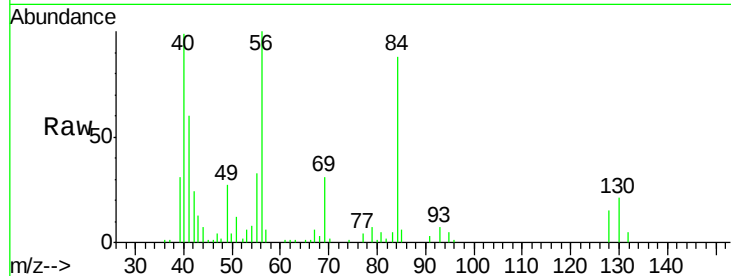
#31
Cyclohexane
Concen: 22.071 ug/l m
RT: 3.72 min Scan# 314
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.4	25.9	38.9
84	87.5	71.1	106.7

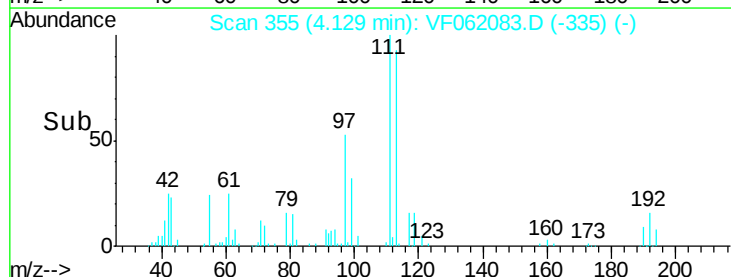
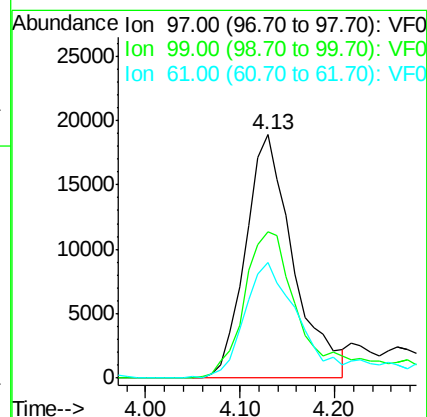
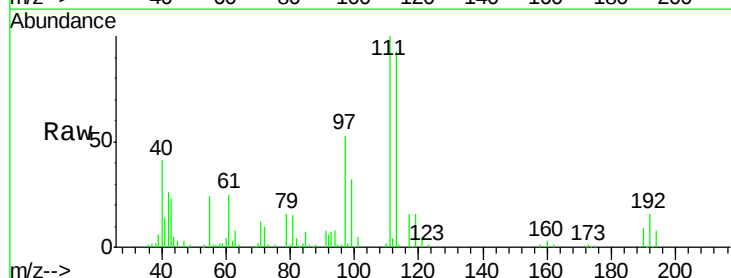
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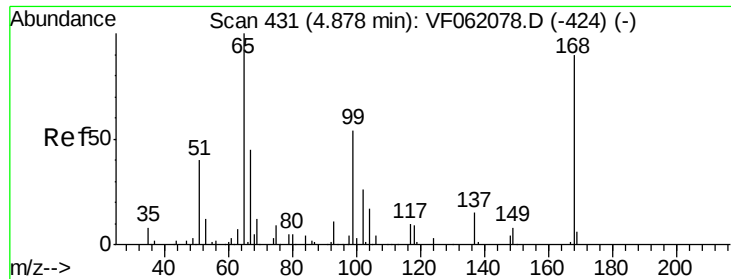
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#32
1,1,1-Trichloroethane
Concen: 22.006 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.0	51.3	76.9
61	47.3	39.0	58.6





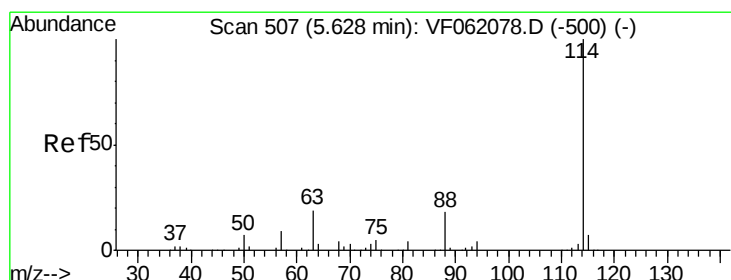
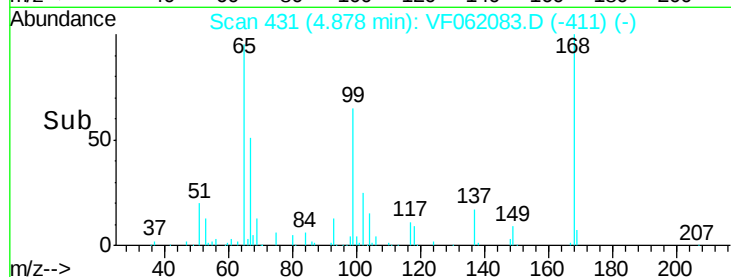
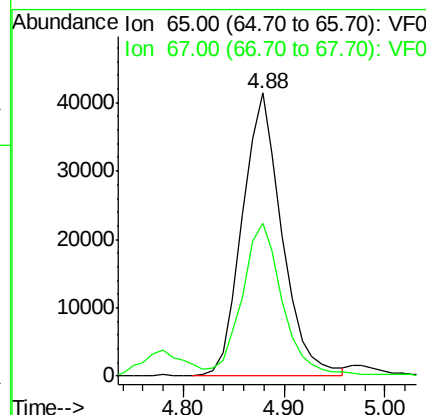
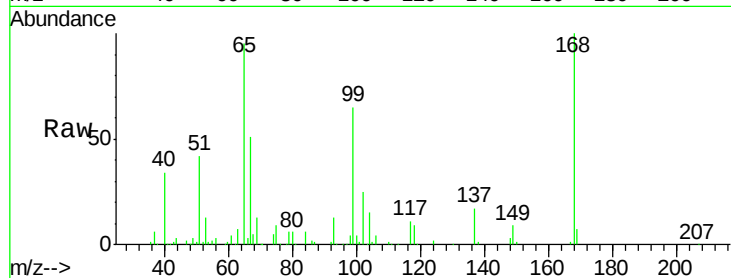
#33
 1,2-Dichloroethane-d4
 Concen: 52.627 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	113625		
67	54.1	0.0	106.2	

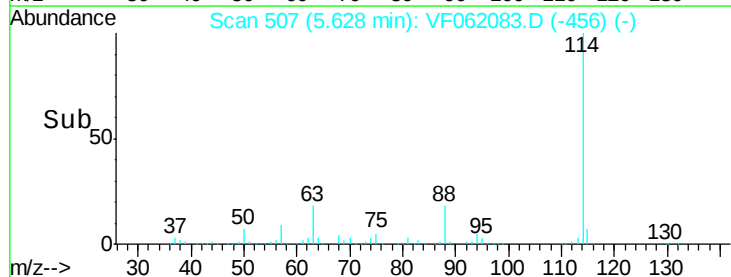
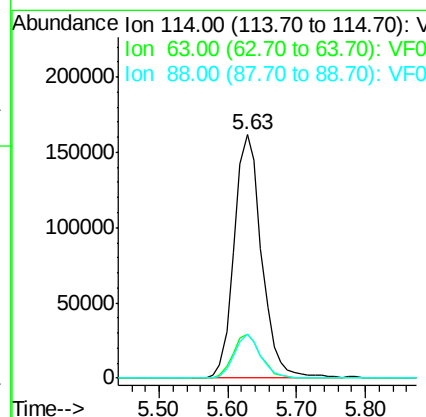
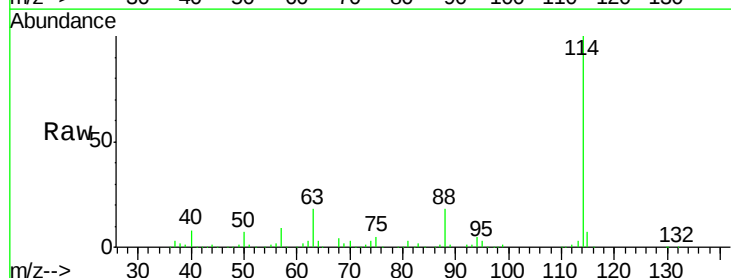
Manual Integrations
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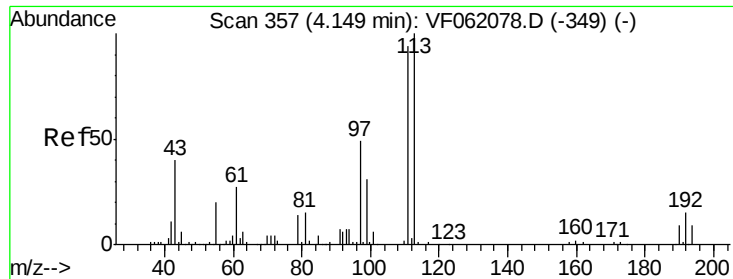
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 3/27/2019 11:57:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	448575		
63	18.2	0.0	37.8	
88	17.8	0.0	36.4	





#35

Dibromofluoromethane

Concen: 53.221 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

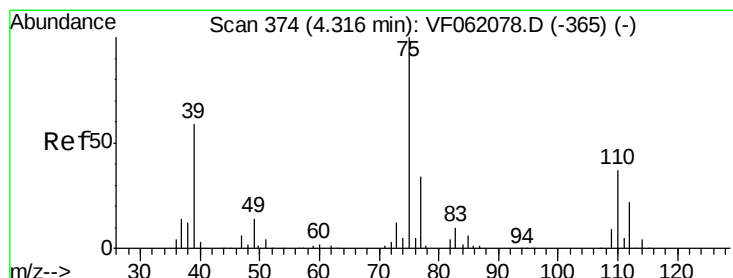
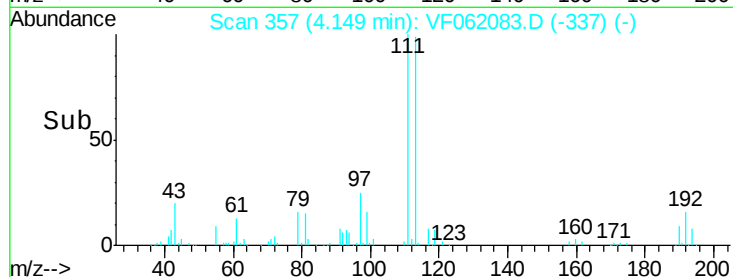
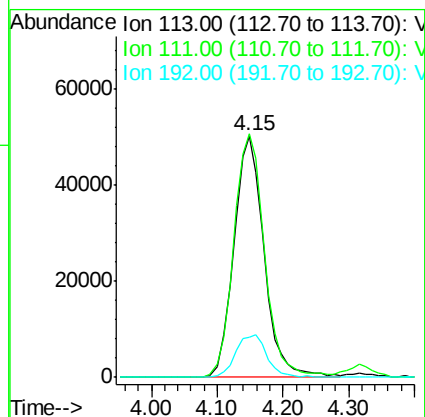
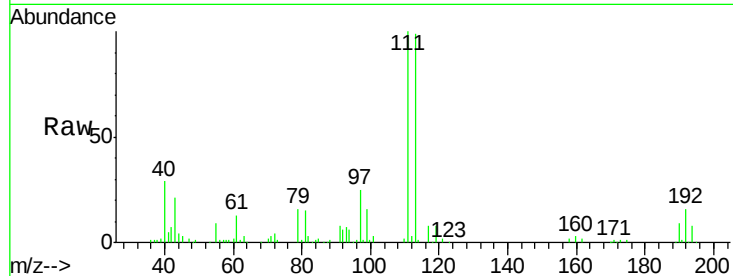
ClientSampleId :

VF0322SBS01

Tot Ion:	113	Resp:	161494
Ion	Ratio	Lower	Upper
113	100		
111	100.9	75.4	113.0
192	16.9	12.3	18.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 22.314 ug/l

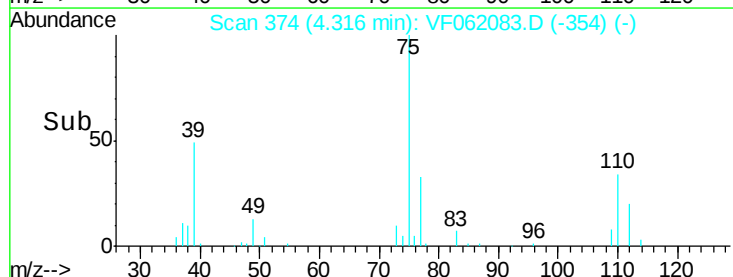
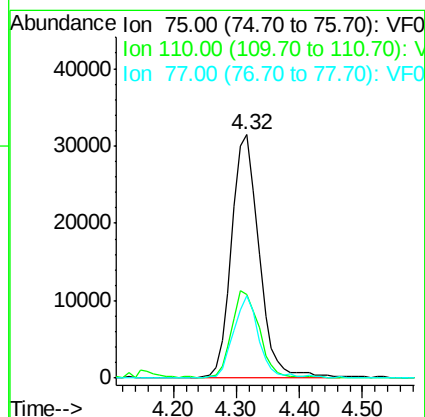
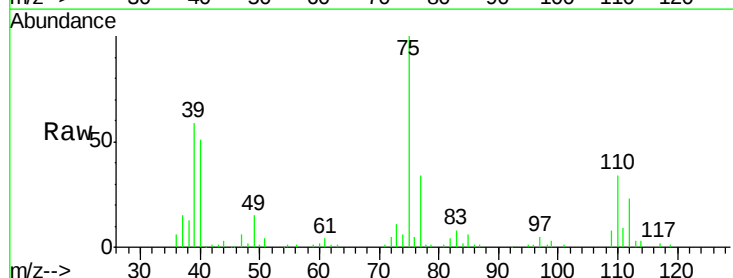
RT: 4.32 min Scan# 374

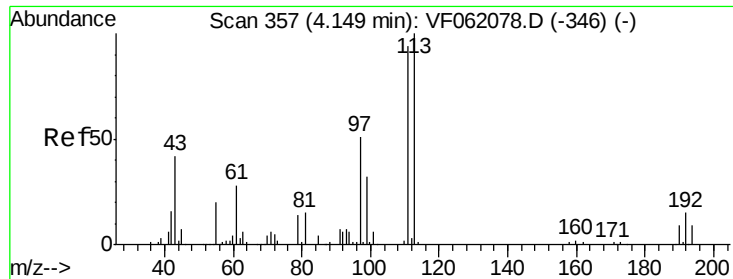
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	75	Resp:	95341
Ion	Ratio	Lower	Upper
75	100		
110	34.4	18.5	55.5
77	33.6	27.4	41.0





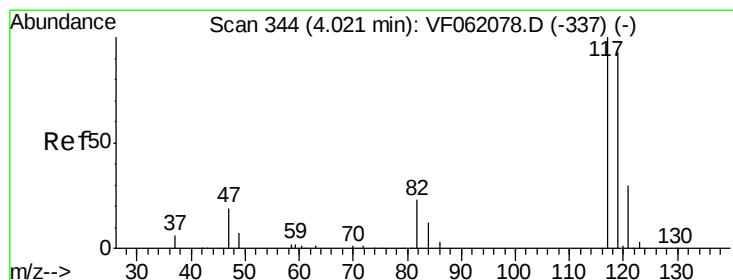
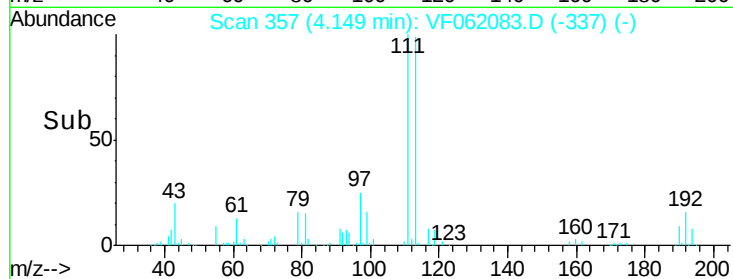
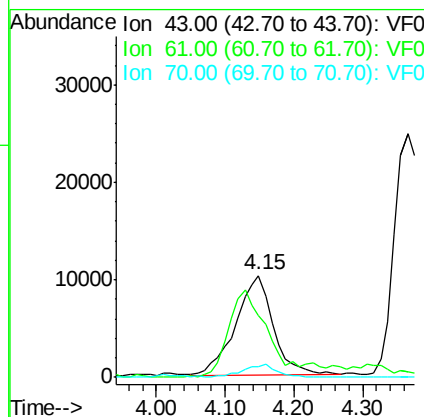
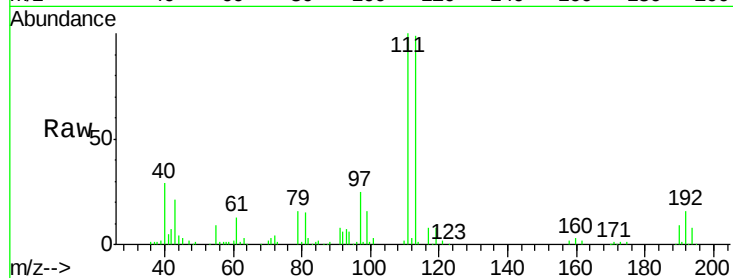
#37
Ethyl Acetate
Concen: 21.060 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
39325	100	61.0	10.5		53.6	9.0
					80.4	13.6

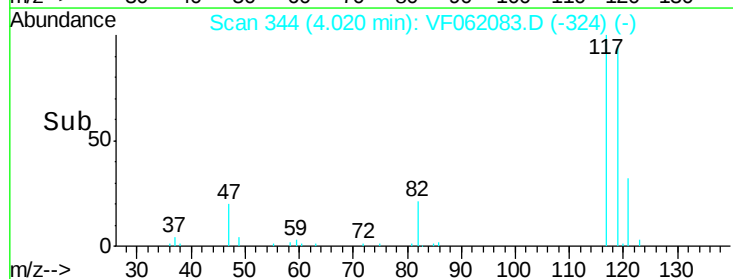
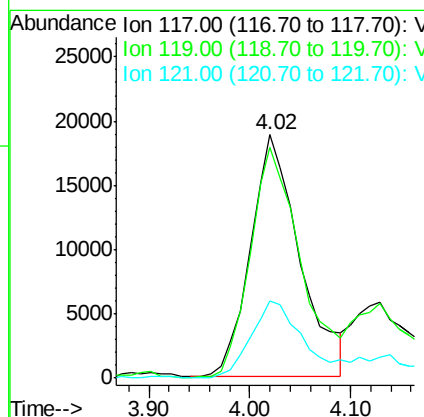
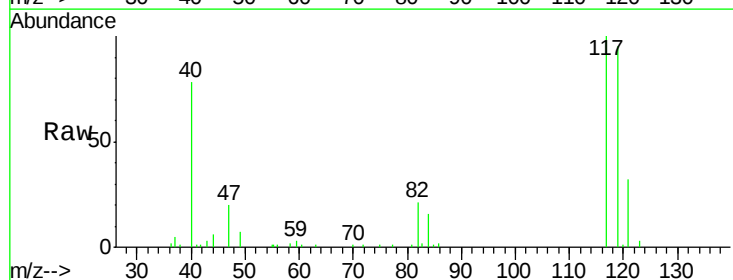
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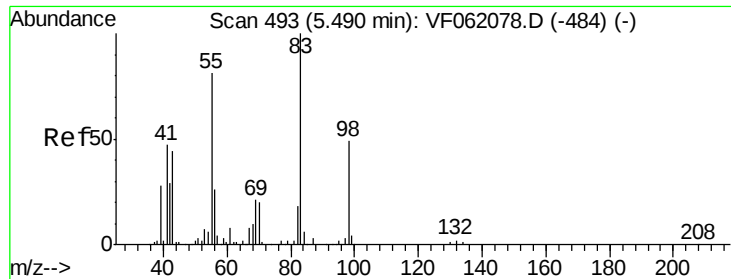
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#38
Carbon Tetrachloride
Concen: 22.080 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	117	119	121	Ratio	Lower	Upper
64300	100	94.9	31.9		74.7	23.6
					112.1	35.4





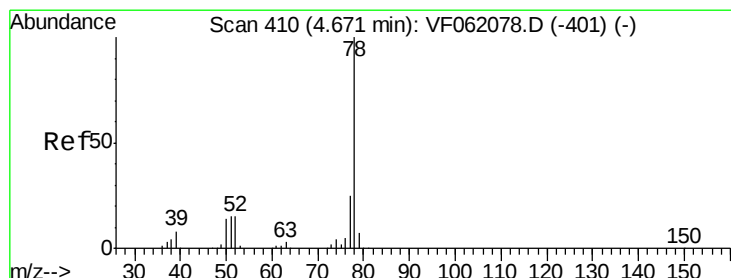
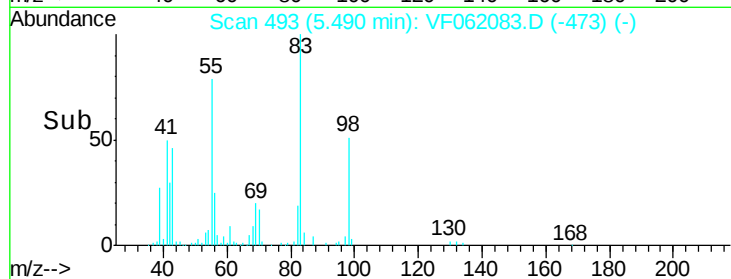
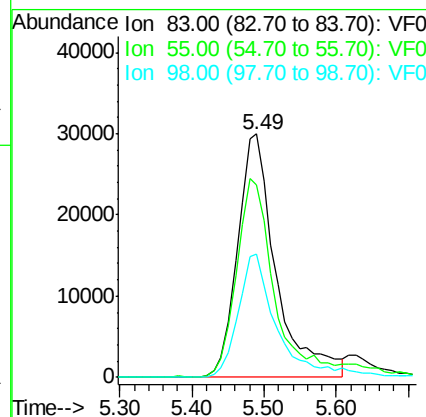
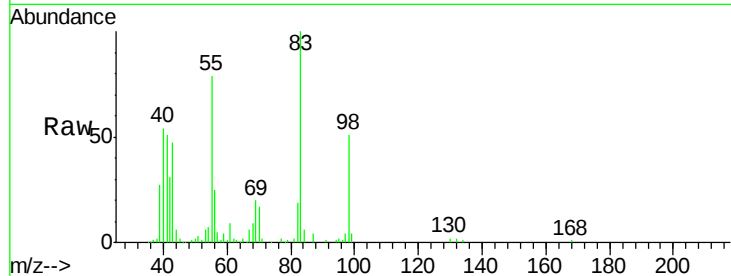
#39
Methylvlcyclohexane
Concen: 22.532 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	83	Resp	111734
Ion	Ratio	Lower	Upper
83	100		
55	78.8	64.5	96.7
98	50.7	39.1	58.7

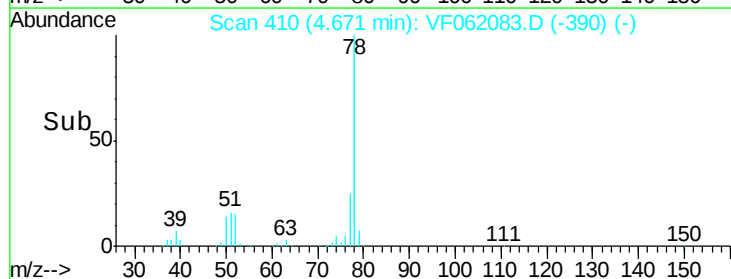
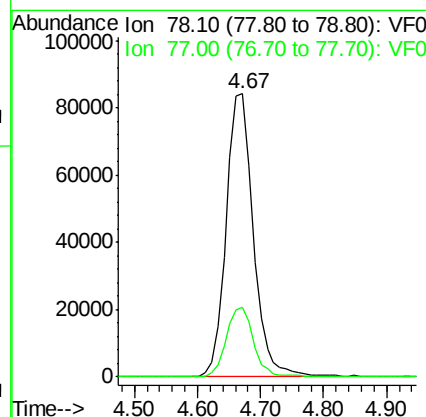
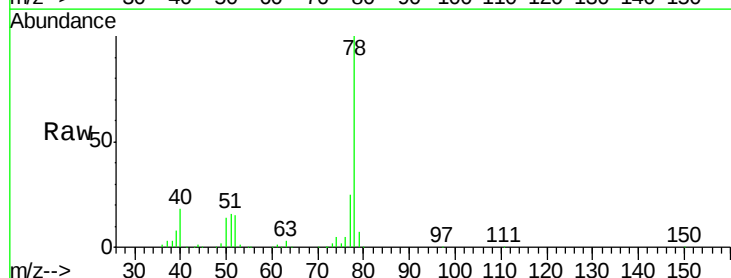
Manual Integrations
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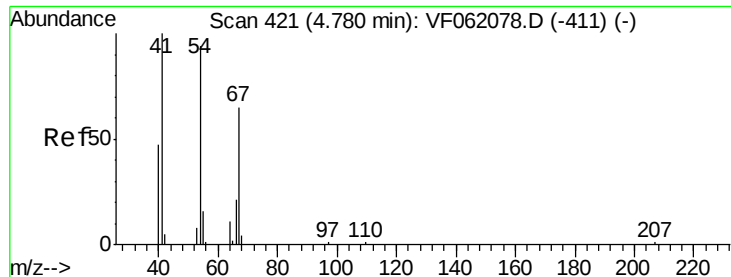
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#40
Benzene
Concen: 22.065 ug/l
RT: 4.67 min Scan# 410
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	78	Resp	252739
Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.8	29.6





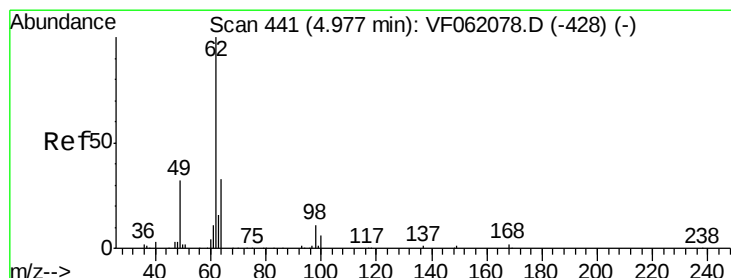
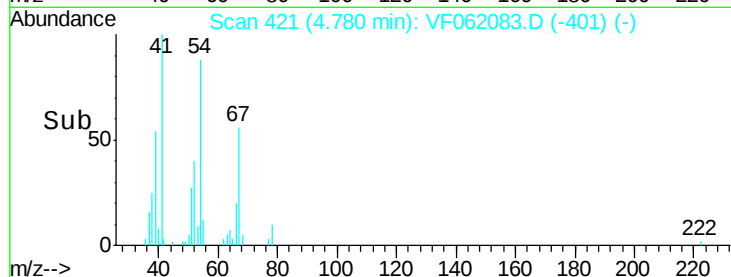
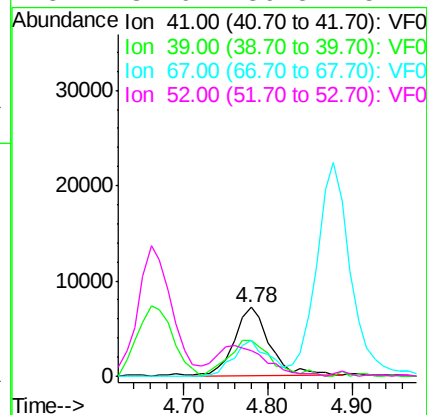
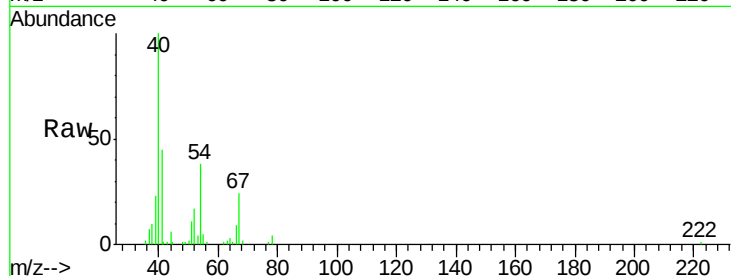
#41
Methacrylonitrile
Concen: 21.280 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	41	Resp	21025
Ion Ratio	Lower	Upper	
41	100		
39	51.3	43.5	65.3
67	53.1	51.6	77.4
52	37.9	36.5	54.7

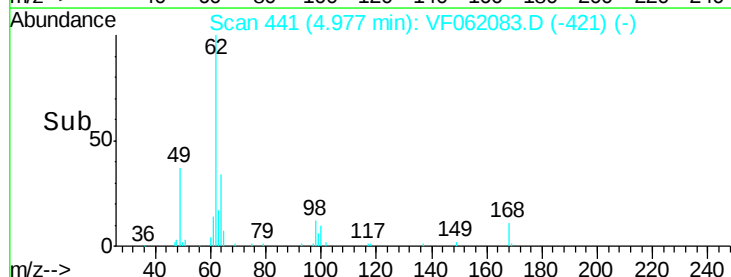
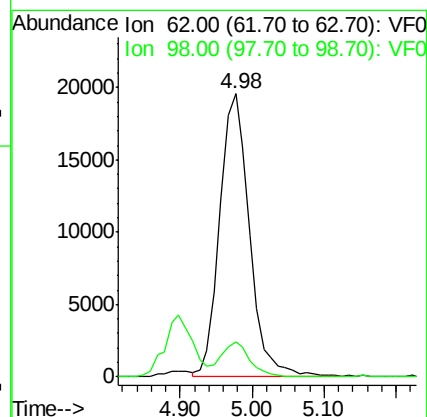
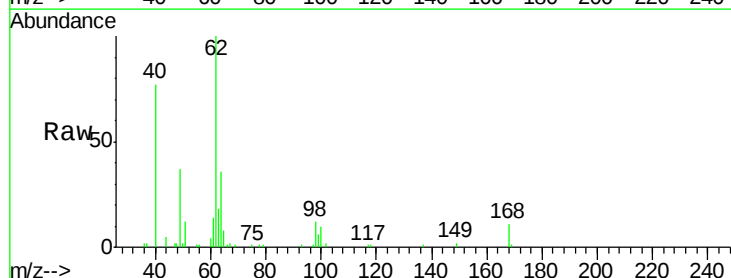
Manual Integrations
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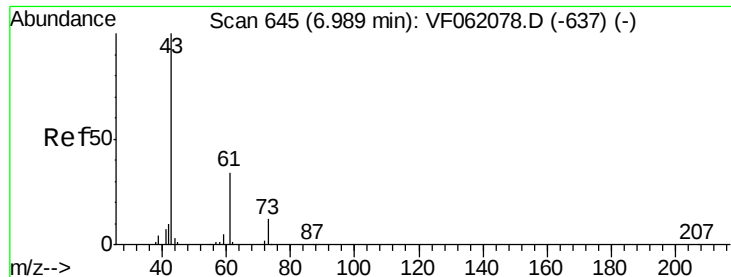
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#42
1,2-Dichloroethane
Concen: 20.685 ug/l
RT: 4.98 min Scan# 441
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	62	Resp	56028
Ion Ratio	Lower	Upper	
62	100		
98	12.3	0.0	23.2





#43

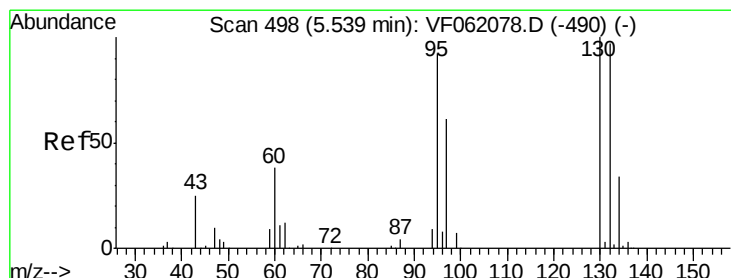
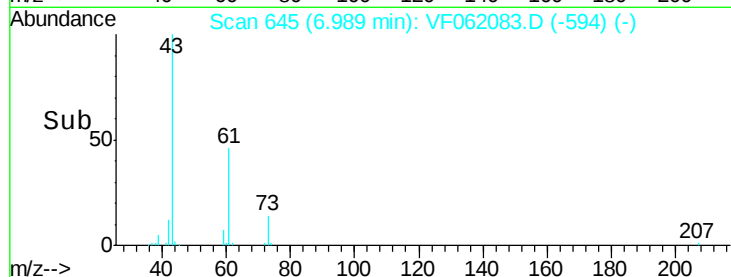
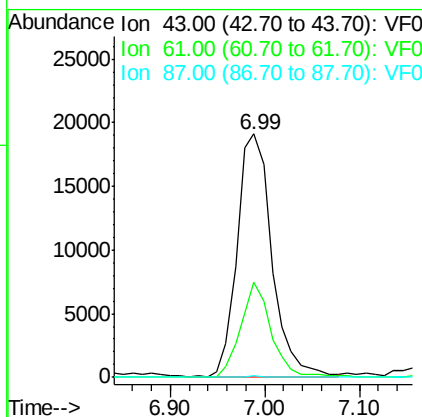
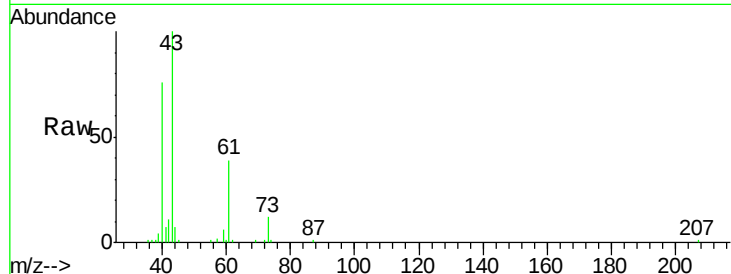
Isopropyl Acetate
 Concen: 21.620 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	38.8	27.0	40.4
87	0.7	0.4	0.6

Manual Integrations
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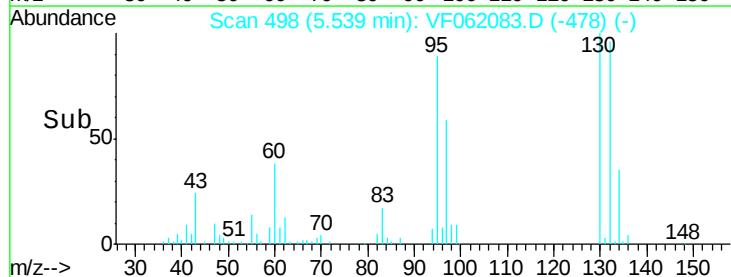
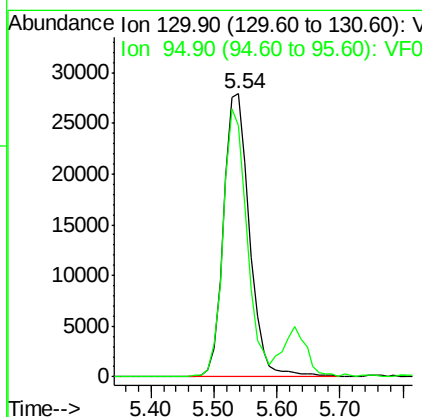
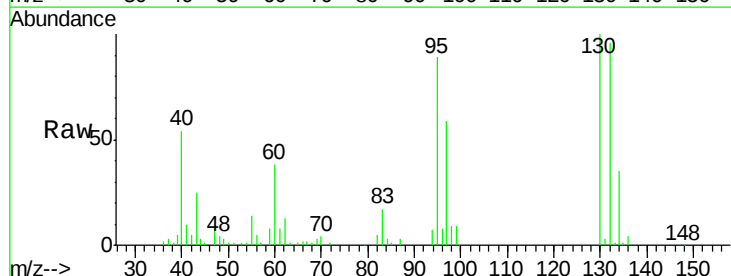
MMDadoda
 3/27/2019 11:57:15 AM

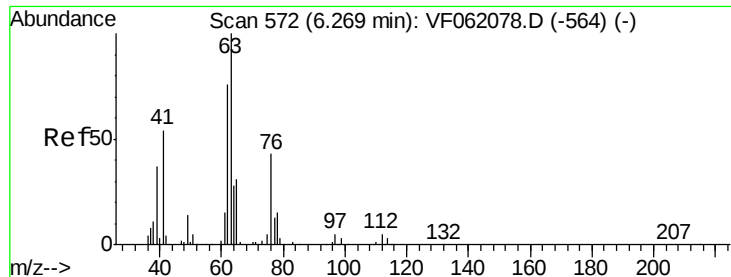


#44

Trichloroethene
 Concen: 22.641 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.9	0.0	183.4





#45

1,2-Dichloropropane

Concen: 21.730 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 63 Resp: 59365

Ion Ratio Lower Upper

63 100

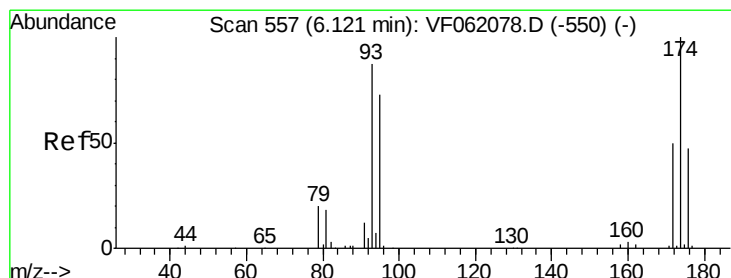
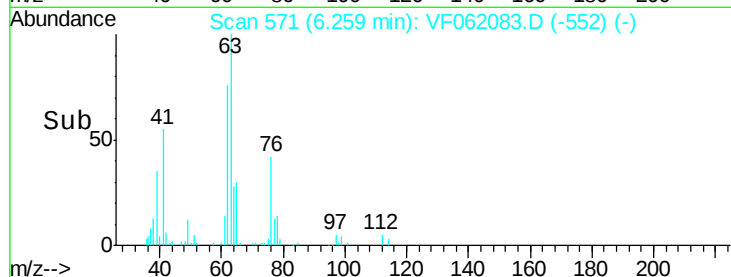
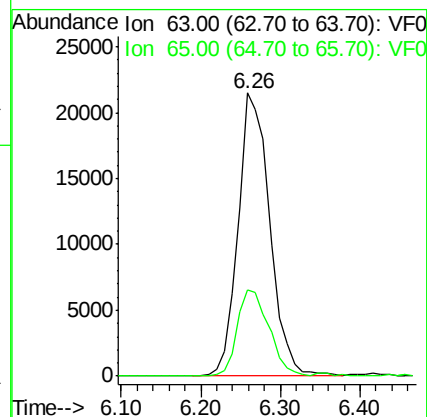
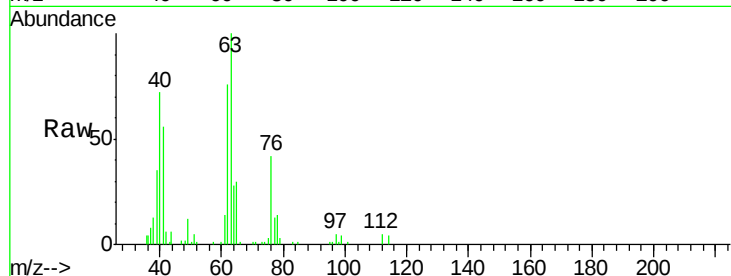
65 30.3 24.9 37.3

Manual Integrations

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3/27/2019 11:57:15 AM



#46

Dibromomethane

Concen: 21.886 ug/l

RT: 6.11 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

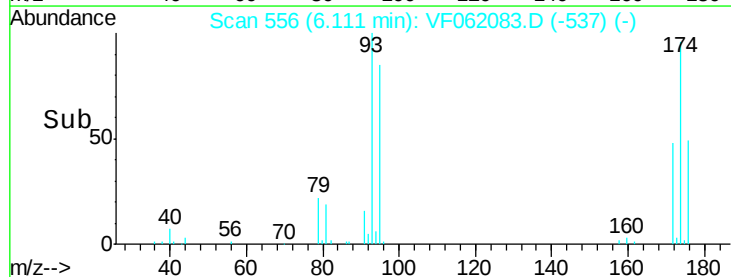
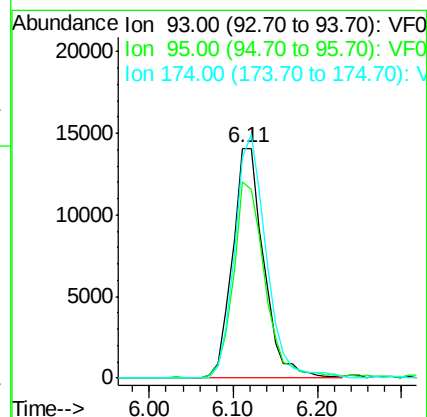
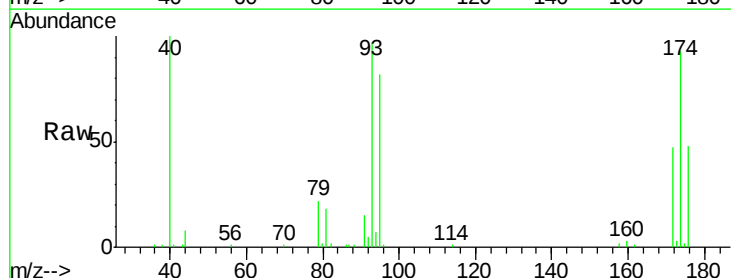
Tgt Ion: 93 Resp: 36558

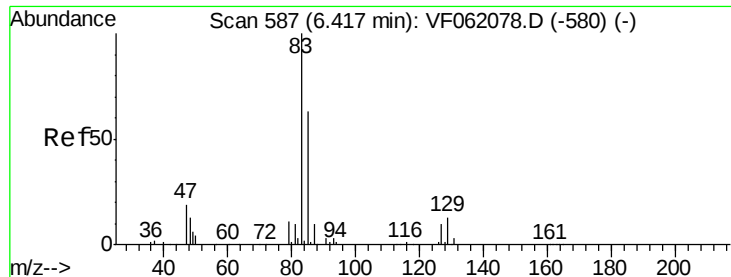
Ion Ratio Lower Upper

93 100

95 85.1 67.4 101.2

174 95.8 92.0 138.0





#47

Bromodichloromethane

Concen: 21.059 ug/l

RT: 6.42 min Scan# 587

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

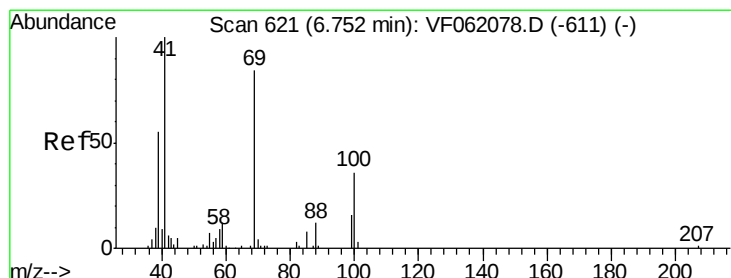
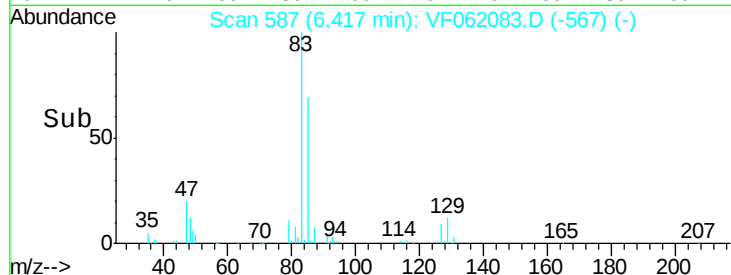
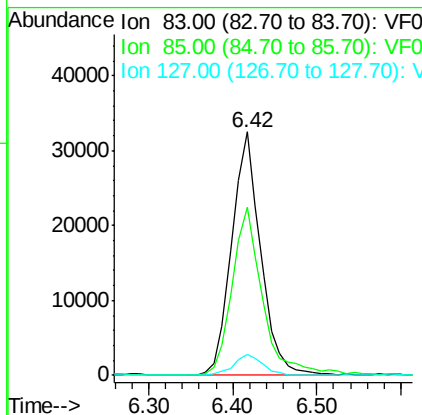
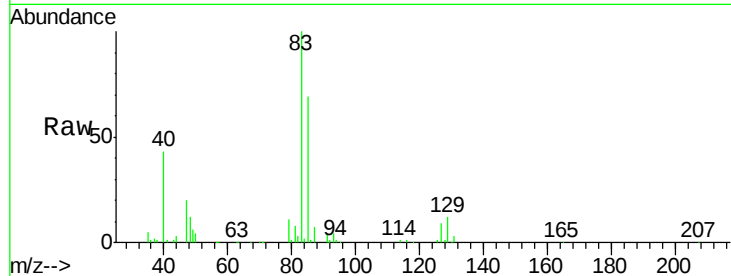
ClientSampleId :

VF0322SBS01

Tot Ion:	83	Resp:	77918
Ion	Ratio	Lower	Upper
83	100		
85	69.2	50.7	76.1
127	8.5	7.8	11.6

Manual Integrations
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3/27/2019 11:57:15 AM



#48

Methyl methacrylate

Concen: 23.970 ug/l

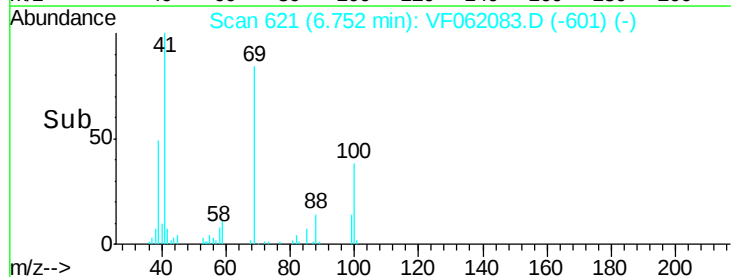
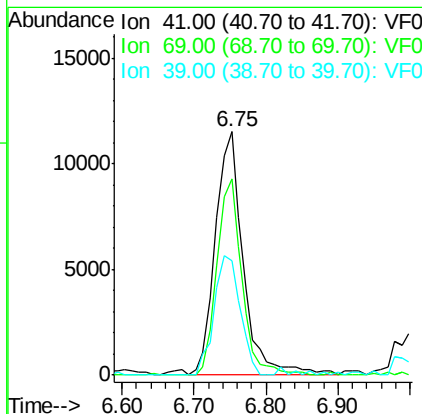
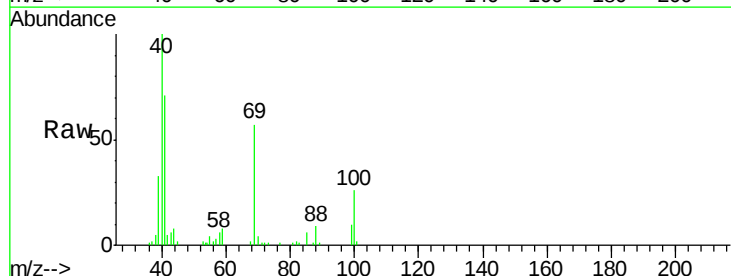
RT: 6.75 min Scan# 621

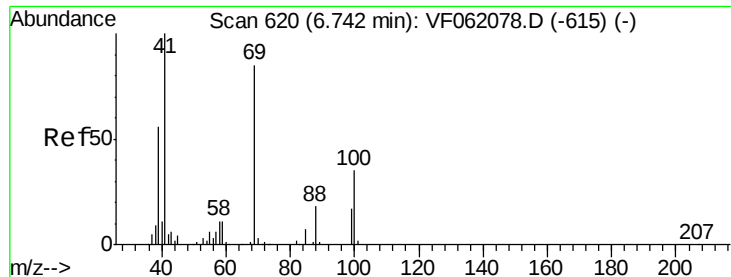
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	41	Resp:	30863
Ion	Ratio	Lower	Upper
41	100		
69	80.8	66.6	100.0
39	46.9	43.6	65.4





#49

1,4-Dioxane

Concen: 474.334 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

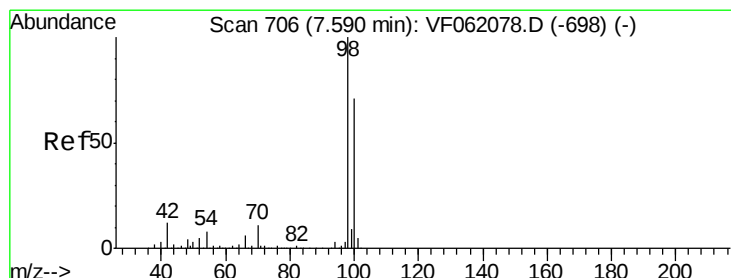
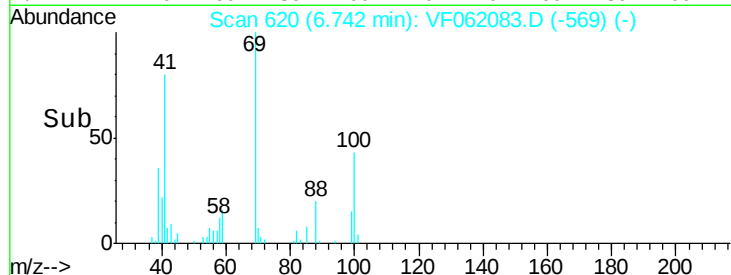
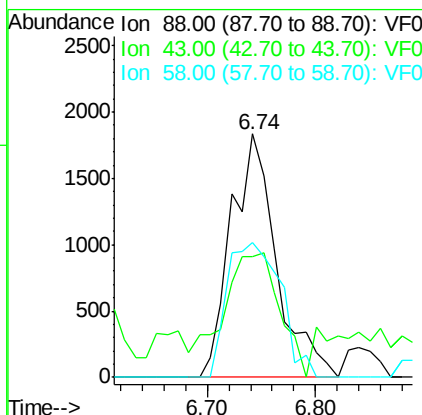
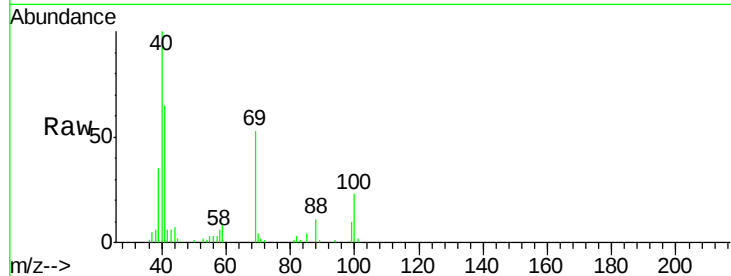
ClientSampleId :

VF0322SBS01

Tot Ion:	88	Resp:	5359
Ion	Ratio	Lower	Upper
88	100		
43	49.7	35.0	52.4
58	55.6	49.9	74.9

Manual Integrations
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3/27/2019 11:57:15 AM



#50

Toluene-d8

Concen: 53.086 ug/l

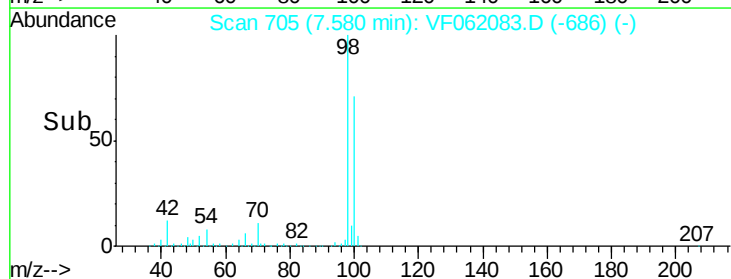
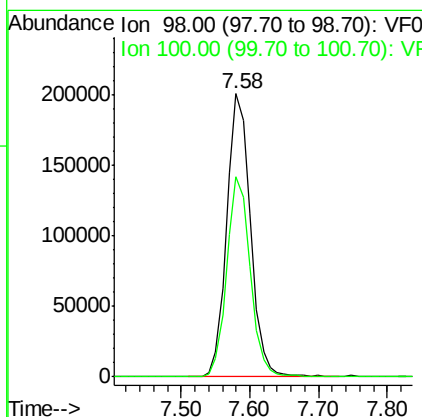
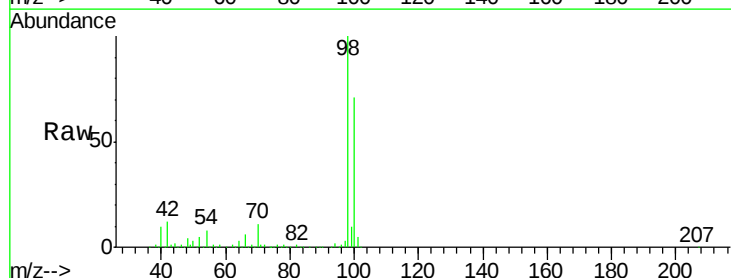
RT: 7.58 min Scan# 705

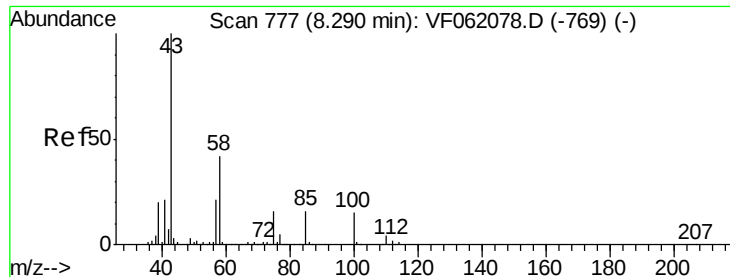
Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	98	Resp:	480847
Ion	Ratio	Lower	Upper
98	100		
100	70.9	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 109.450 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 43 Resp: 165660

Ion Ratio Lower Upper

43 100

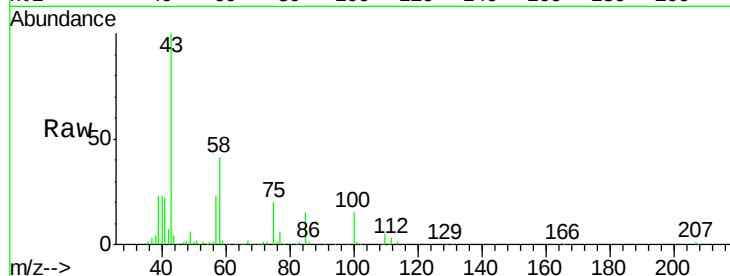
58 41.1 33.8 50.8

Manual Integrations

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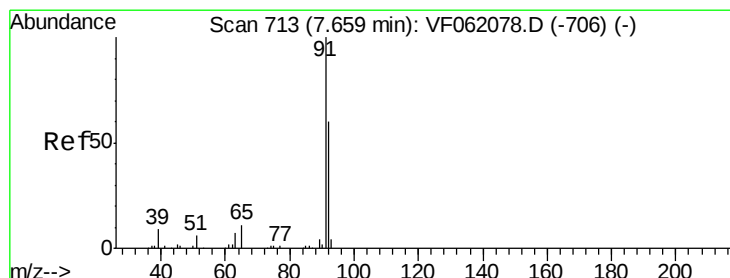
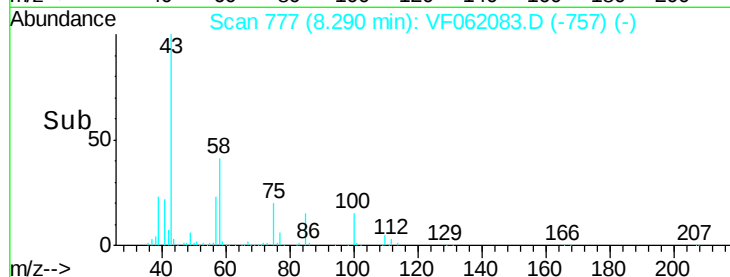
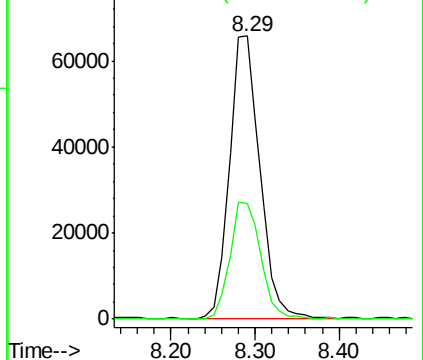
MMDadoda

3/27/2019 11:57:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.677 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF062083.D

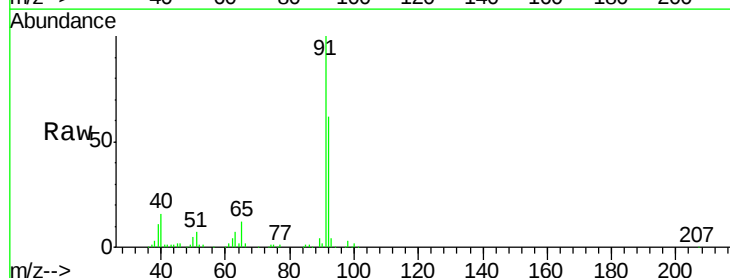
Acq: 22 Mar 2019 15:27

Tgt Ion: 92 Resp: 137179

Ion Ratio Lower Upper

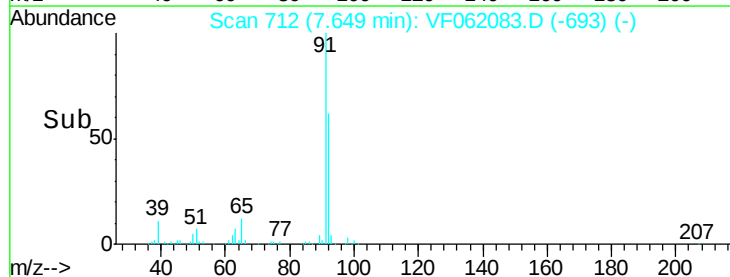
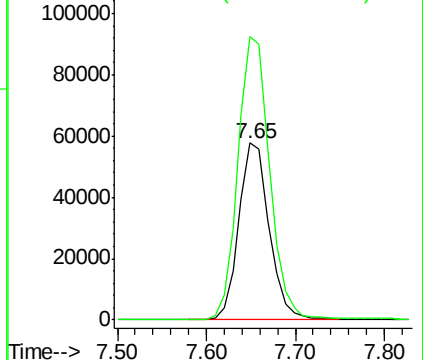
92 100

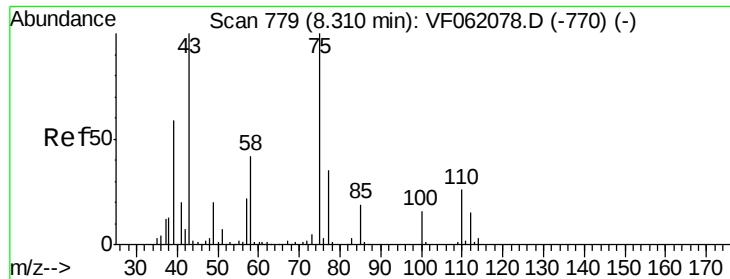
91 160.3 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.839 ug/l

RT: 8.31 min Scan# 779

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tot Ion	75	Resp	63431
Ion Ratio	100	Lower	Upper
77	33.2	28.0	42.0

Instrument :

MSVOA_F

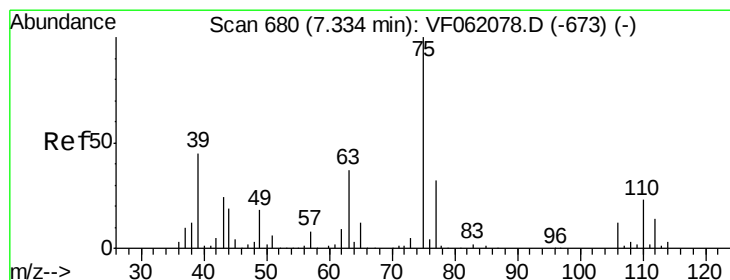
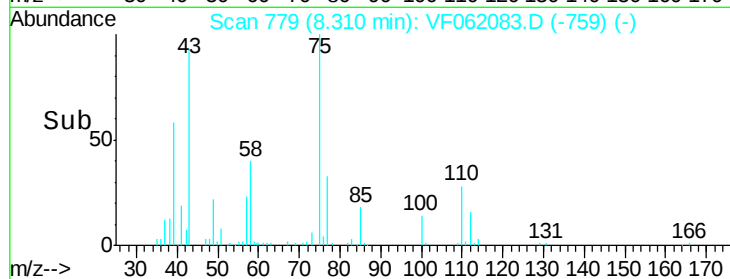
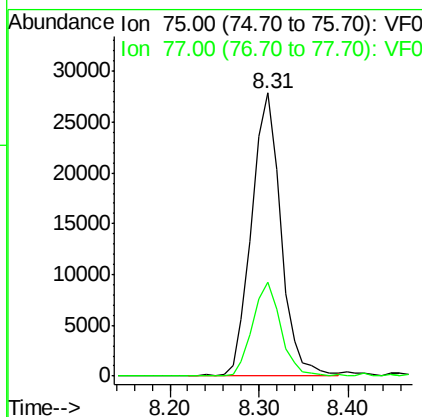
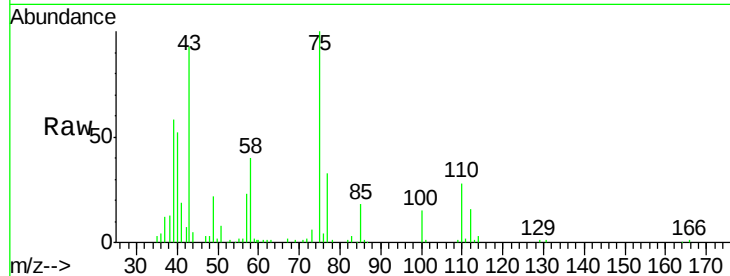
ClientSampleId :

VF0322SBS01

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#54

cis-1,3-Dichloropropene

Concen: 21.603 ug/l

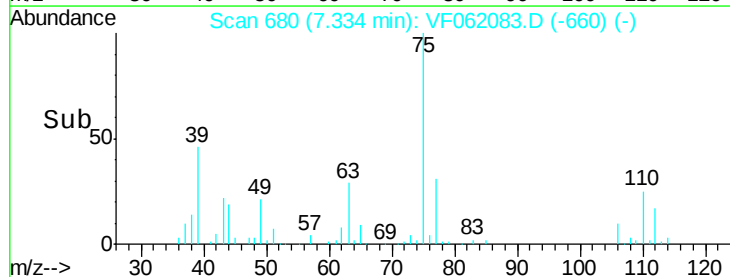
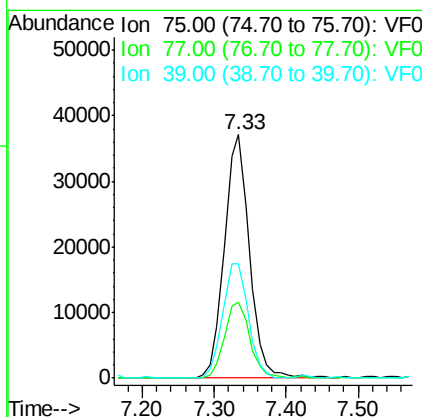
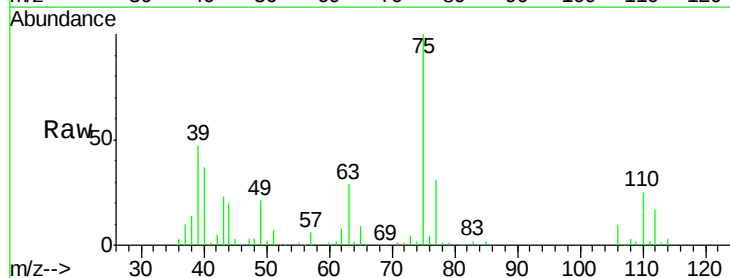
RT: 7.33 min Scan# 680

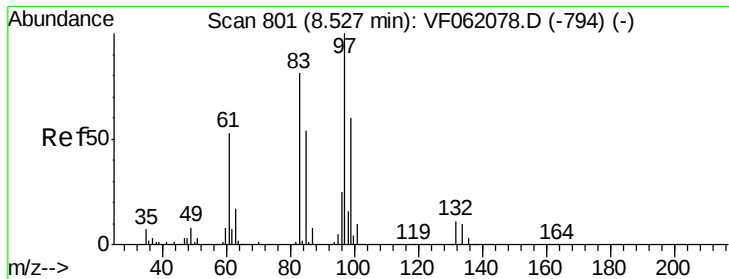
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion	75	Resp	89781
Ion Ratio	100	Lower	Upper
77	31.2	25.8	38.6
39	47.0	35.9	53.9





#55

1,1,2-Trichloroethane

Concen: 22.427 ug/l

RT: 8.52 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

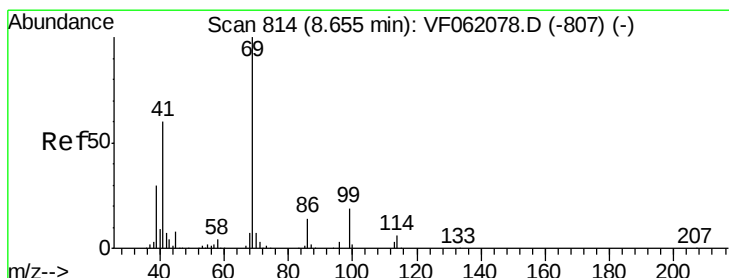
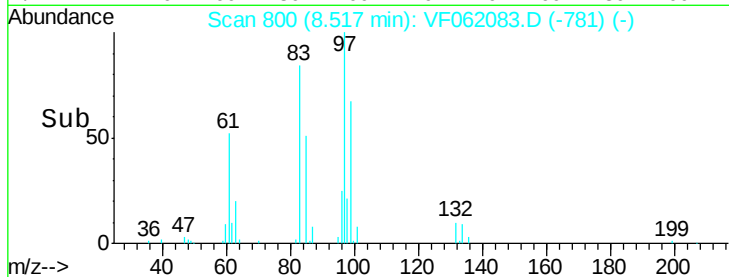
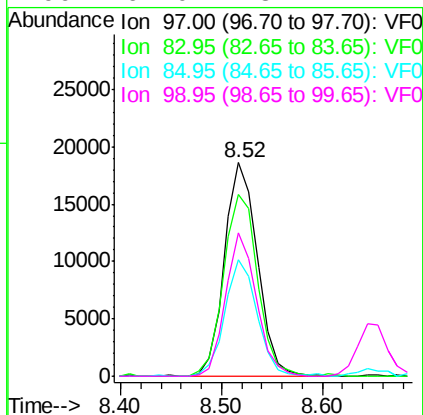
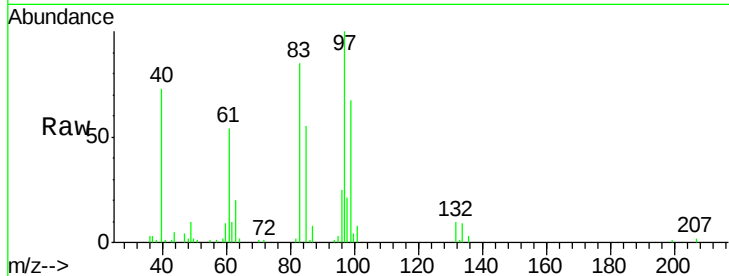
ClientSampleId :

VF0322SBS01

Tot Ion:	97	Resp:	42262
Ion	Ratio	Lower	Upper
97	100		
83	85.3	64.6	97.0
85	54.6	43.6	65.4
99	67.0	48.2	72.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.988 ug/l

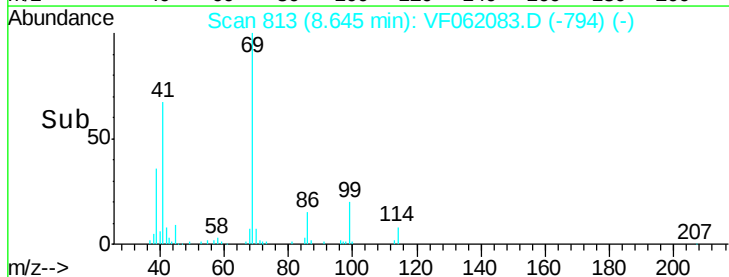
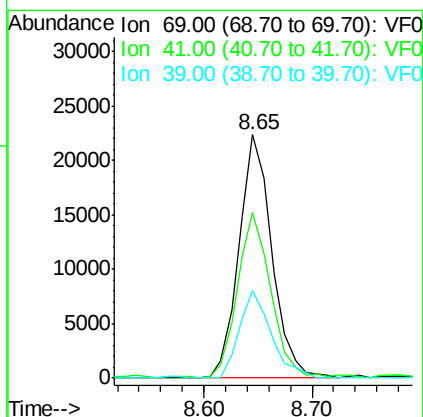
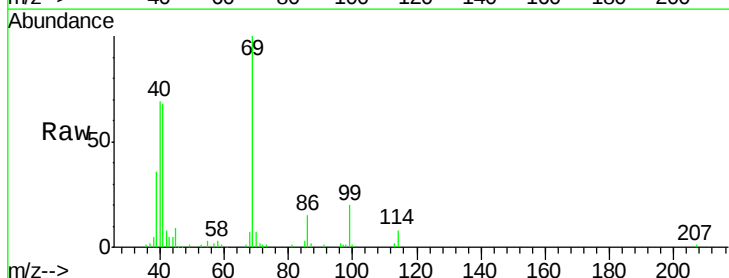
RT: 8.65 min Scan# 813

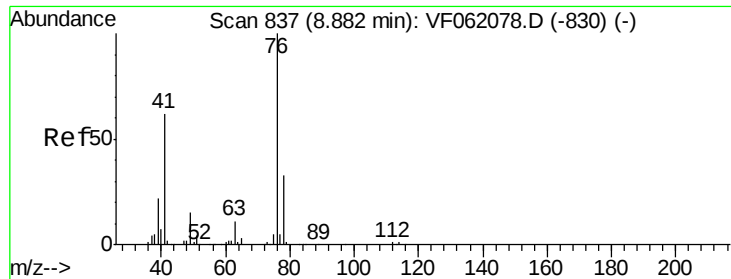
Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	69	Resp:	47170
Ion	Ratio	Lower	Upper
69	100		
41	68.0	48.2	72.2
39	36.0	24.0	36.0#





#57

1,3-Dichloropropane

Concen: 21.887 ug/l

RT: 8.88 min Scan# 837

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 76 Resp: 68455

Ion Ratio Lower Upper

76 100

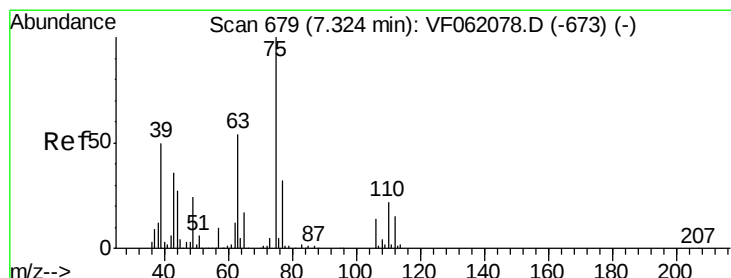
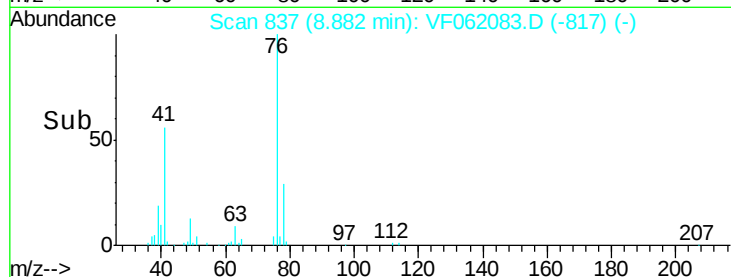
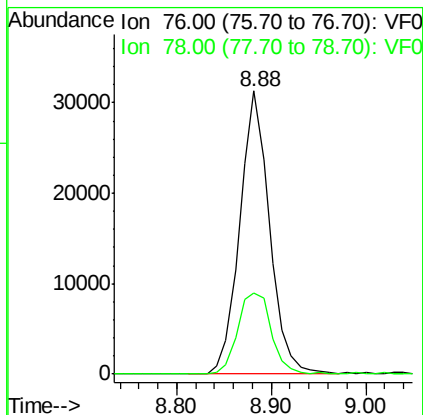
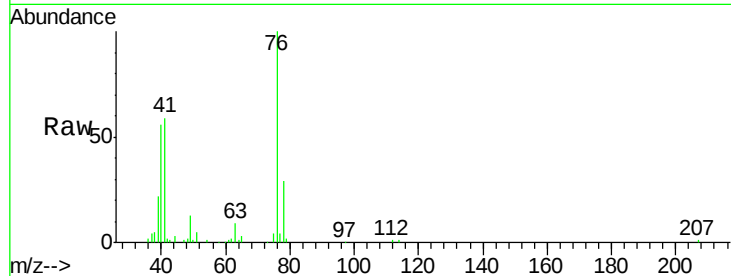
78 28.8 26.6 39.8

Manual Integrations

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3/27/2019 11:57:15 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.774 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.00 min

Lab File: VF062083.D

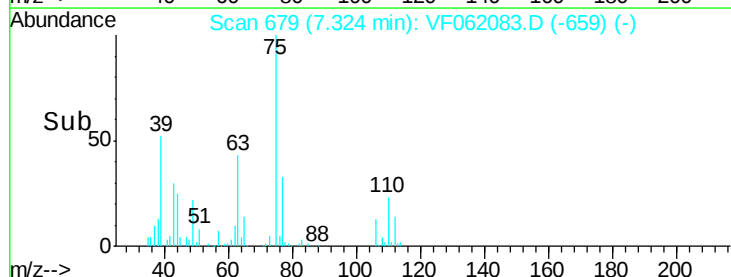
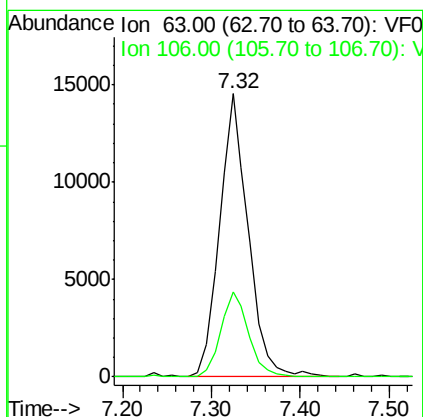
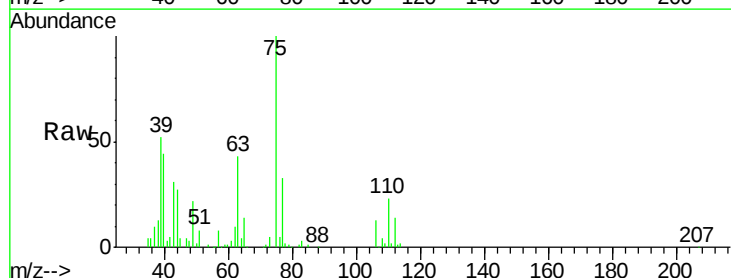
Acq: 22 Mar 2019 15:27

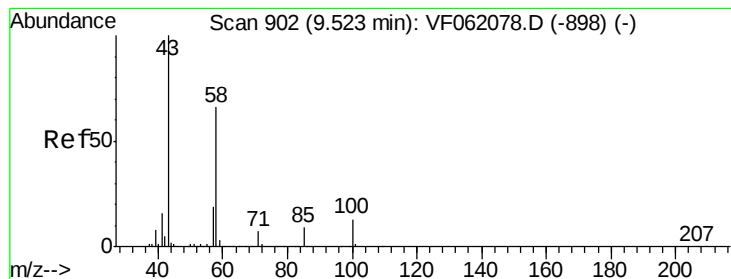
Tgt Ion: 63 Resp: 32662

Ion Ratio Lower Upper

63 100

106 30.1 21.5 32.3





#59

2-Hexanone

Concen: 116.686 ug/l

RT: 9.52 min Scan# 902

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 43 Resp: 129440

Ion Ratio Lower Upper

43 100

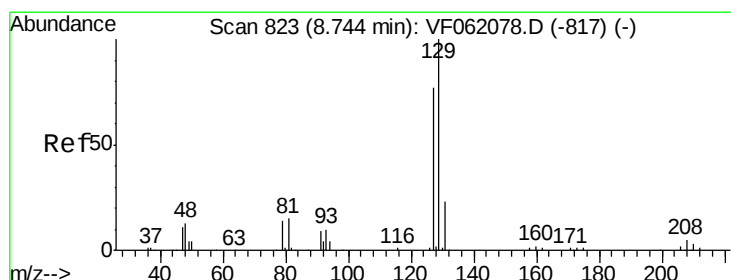
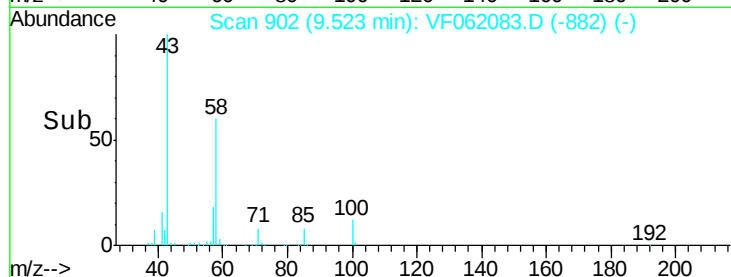
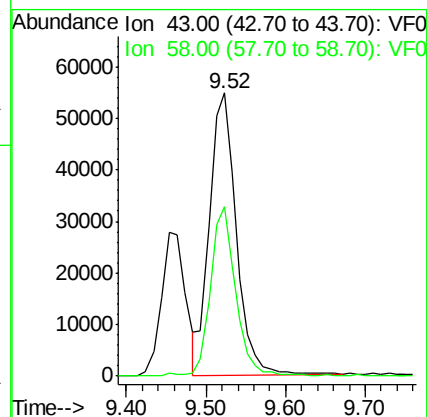
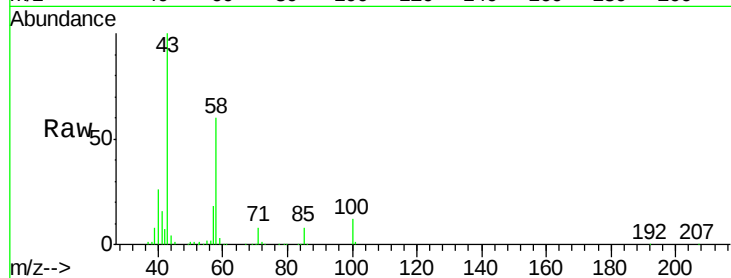
58 60.0 28.8 86.4

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#60

Dibromochloromethane

Concen: 21.771 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF062083.D

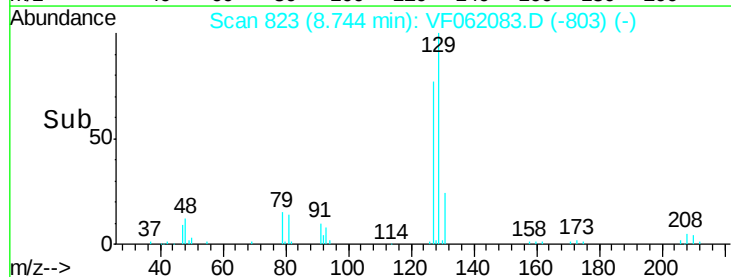
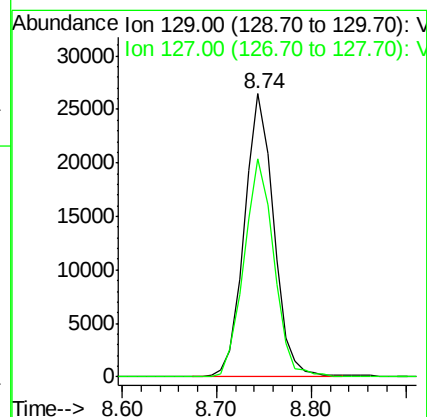
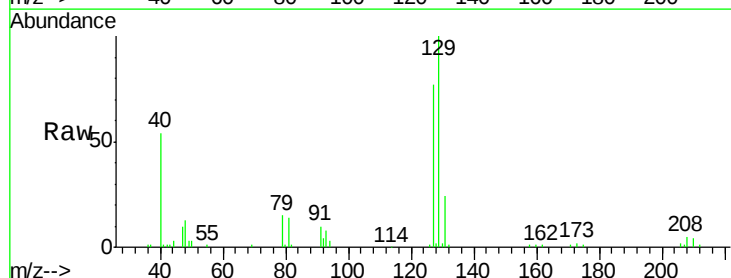
Acq: 22 Mar 2019 15:27

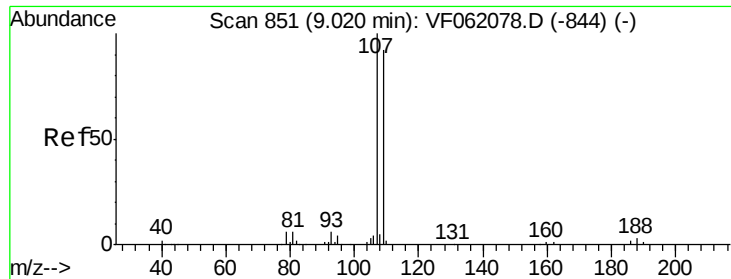
Tgt Ion: 129 Resp: 57033

Ion Ratio Lower Upper

129 100

127 77.2 38.7 116.1





#61

1,2-Dibromoethane

Concen: 22.092 ug/l

RT: 9.02 min Scan# 851

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion:107 Resp: 44415

Ion Ratio Lower Upper

107 100

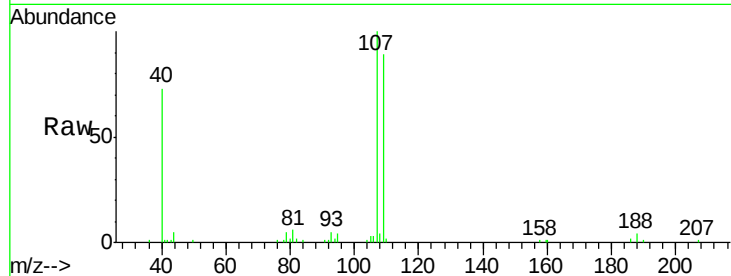
109 88.9 73.4 110.0

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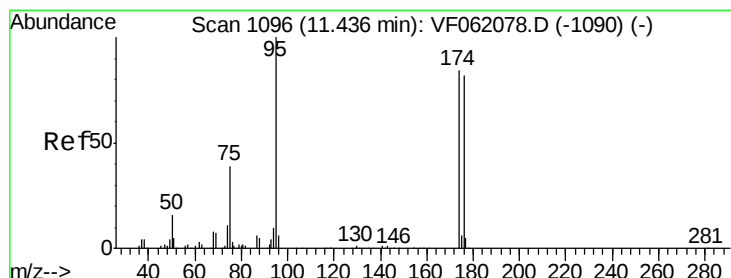
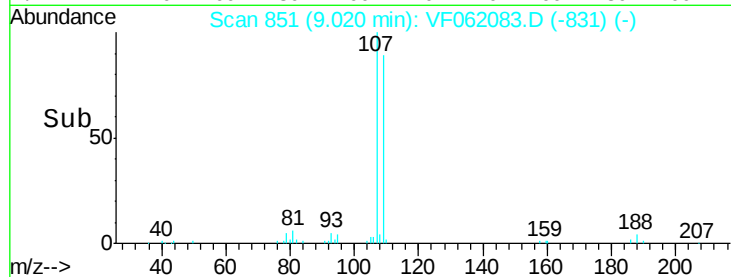
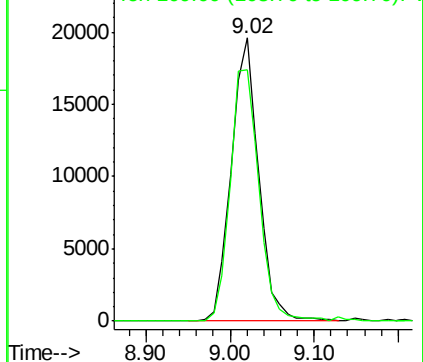
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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 51.822 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

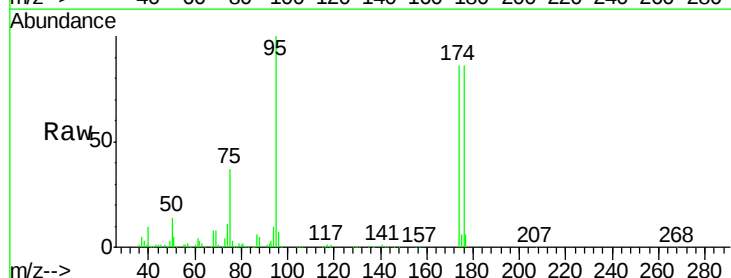
Tgt Ion: 95 Resp: 181212

Ion Ratio Lower Upper

95 100

174 85.7 0.0 168.2

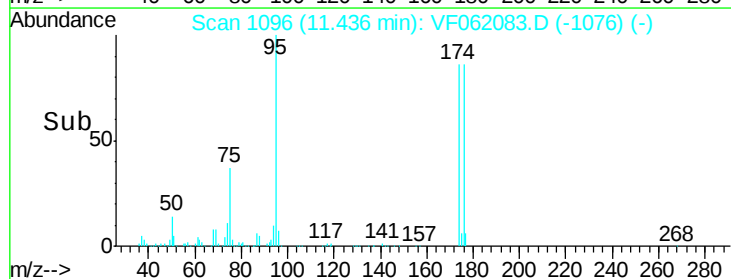
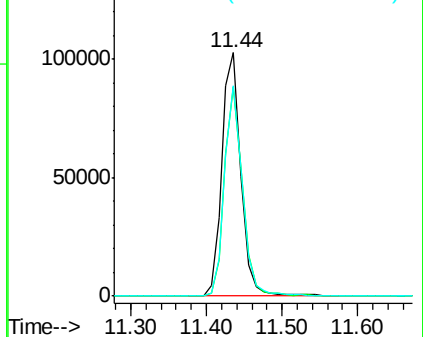
176 86.2 0.0 164.2

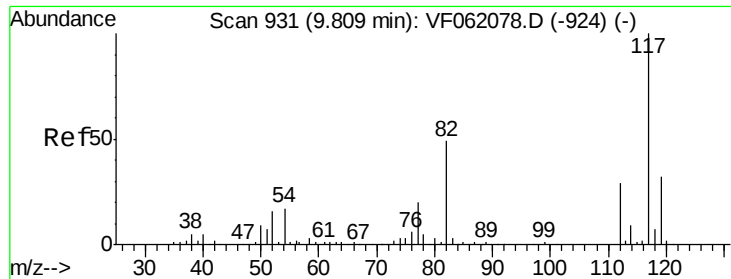


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





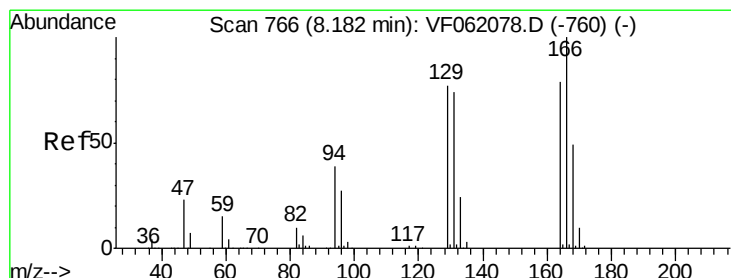
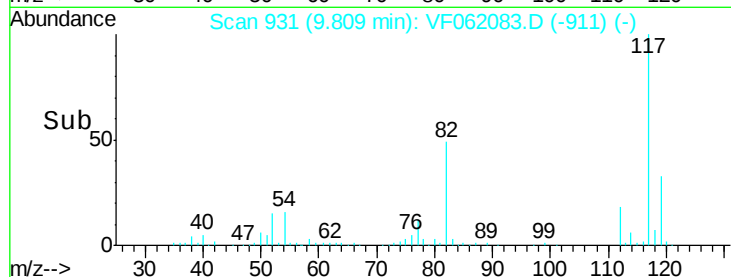
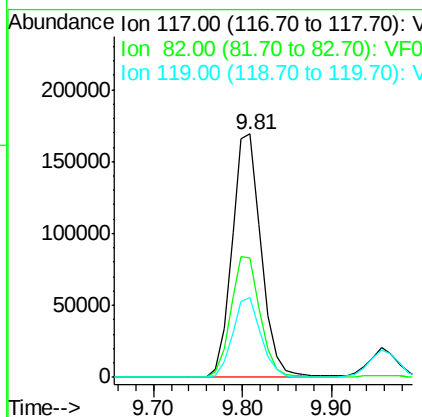
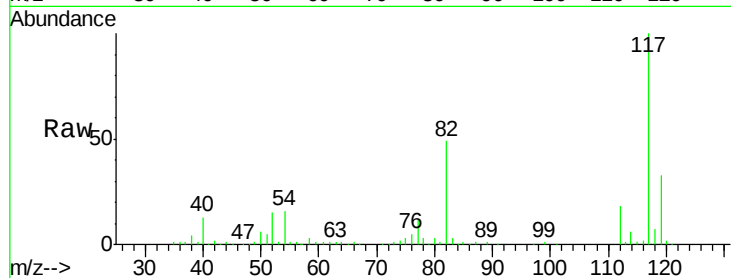
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.0	39.2	58.8
119	32.7	25.4	38.2

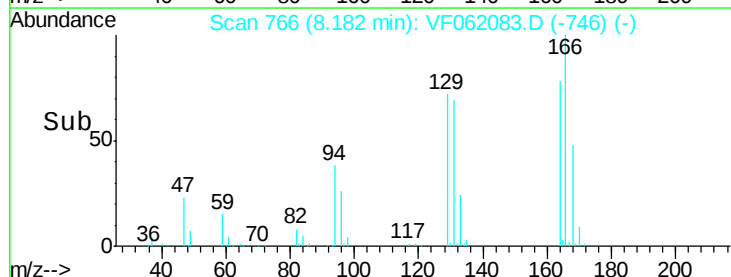
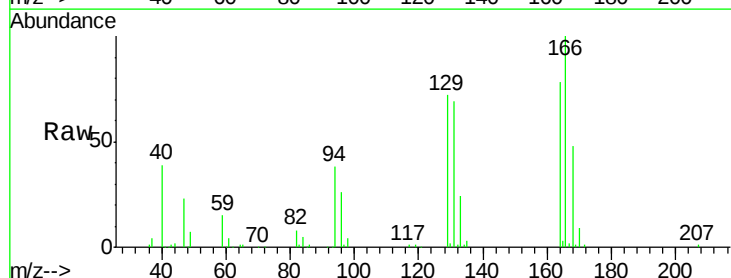
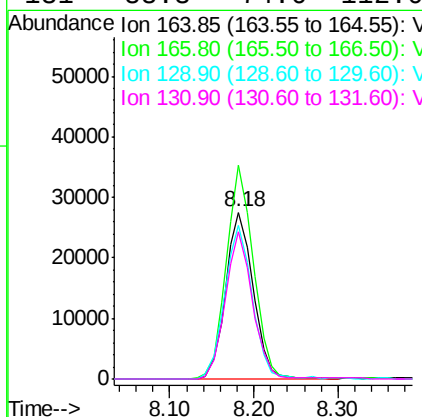
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#64
Tetrachloroethene
Concen: 20.842 ug/l
RT: 8.18 min Scan# 766
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	100.9	151.3
129	92.0	77.9	116.9
131	88.3	74.6	112.0





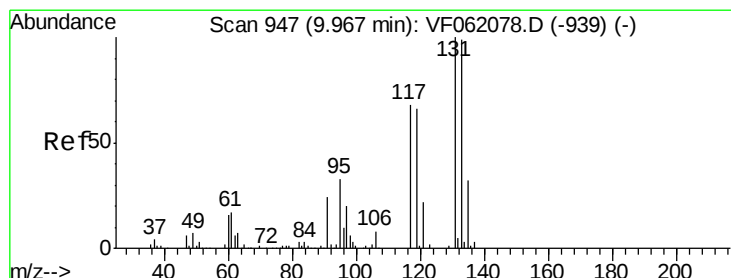
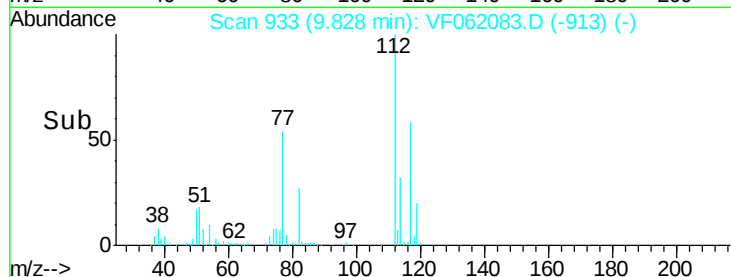
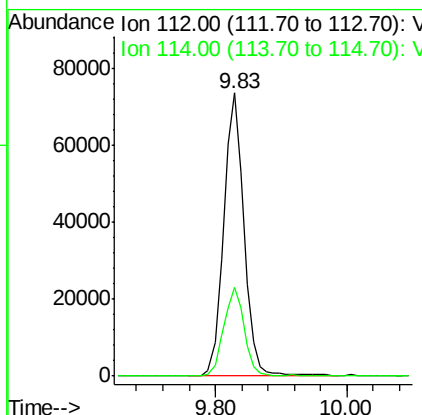
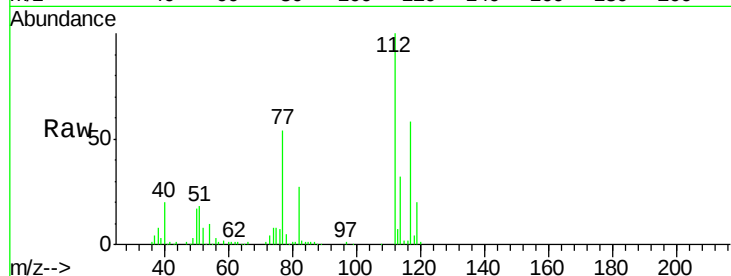
#65
Chlorobenzene
Concen: 21.980 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion:112 Resp: 159382
Ion Ratio Lower Upper
112 100
114 31.5 26.0 39.0

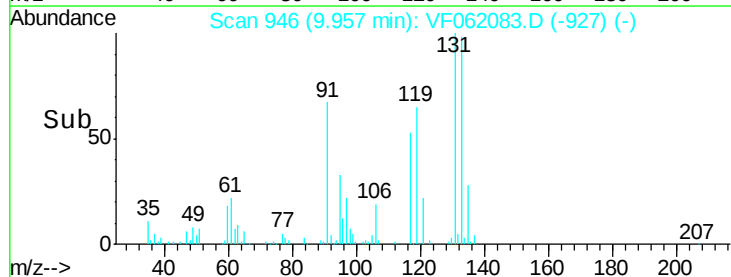
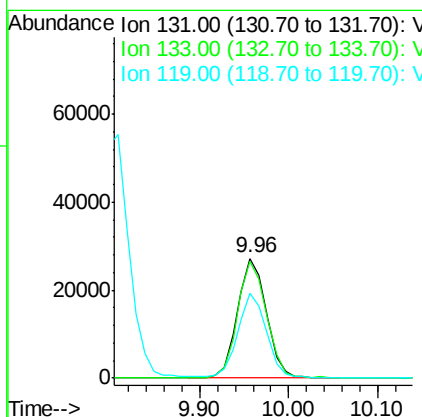
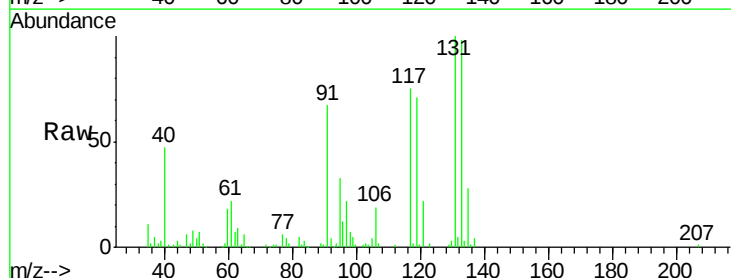
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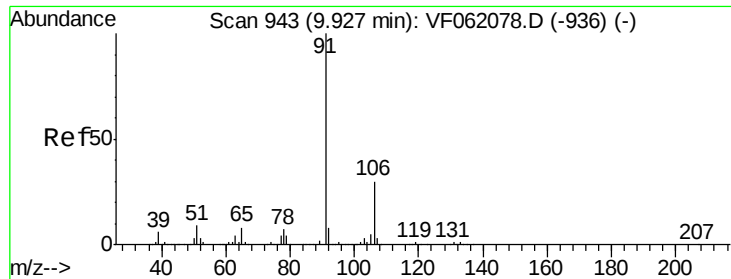
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.114 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion:131 Resp: 61501
Ion Ratio Lower Upper
131 100
133 97.5 49.3 147.8
119 70.9 33.5 100.4





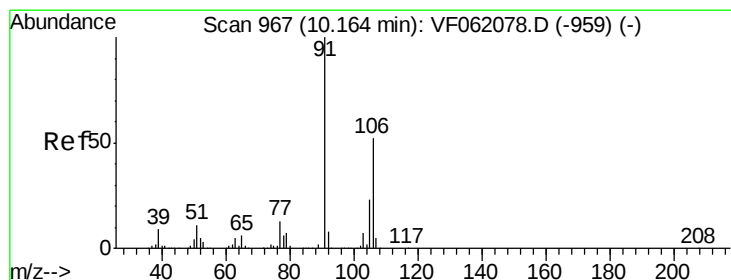
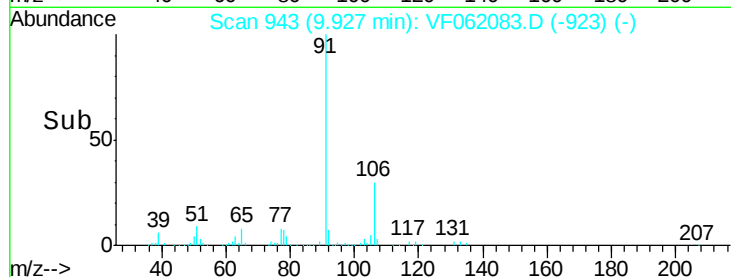
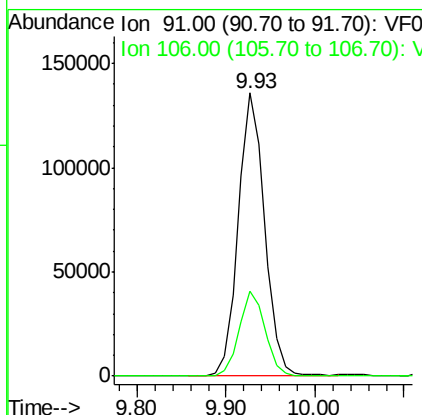
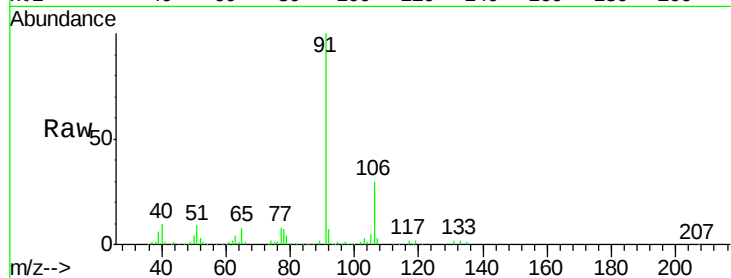
#67
Ethyl Benzene
Concen: 22.200 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.0	36.0

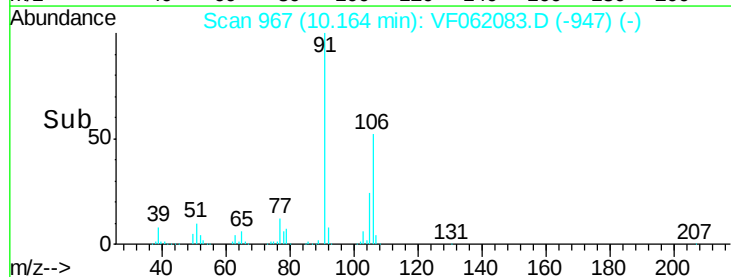
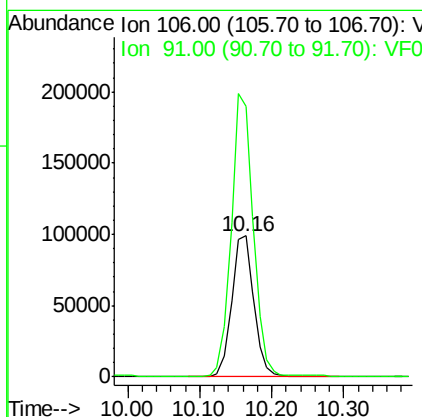
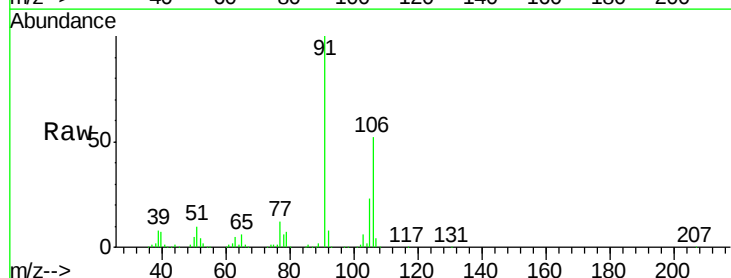
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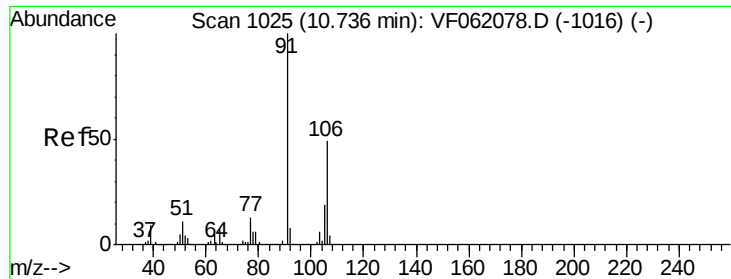
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#68
m/p-Xylenes
Concen: 45.370 ug/l
RT: 10.16 min Scan# 967
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
106	100		
91	192.2	154.4	231.6





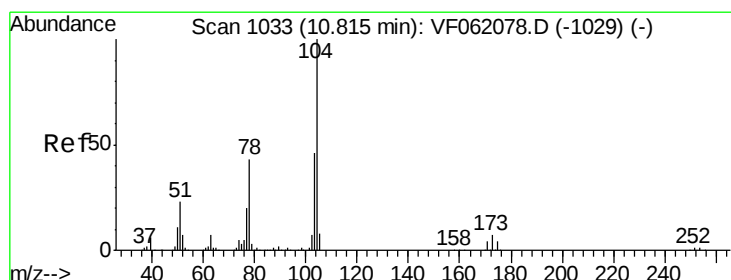
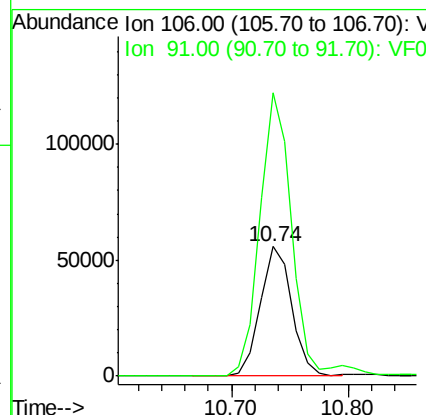
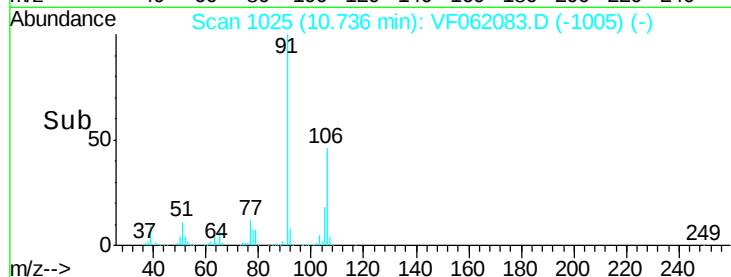
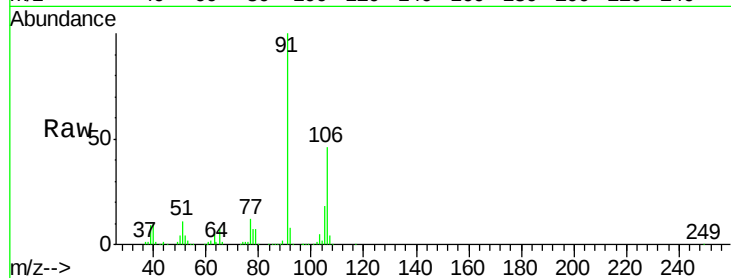
#69
o-Xylene
Concen: 21.156 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.9	102.6	307.8

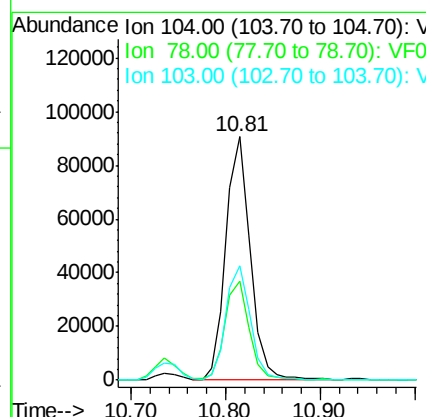
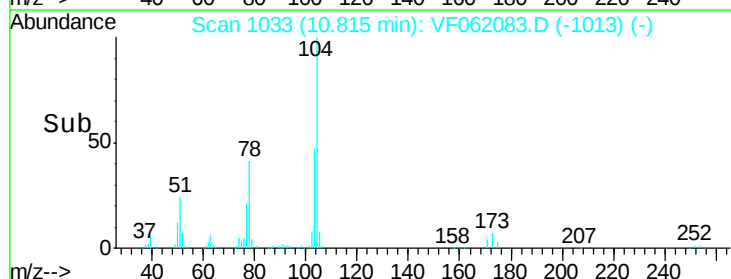
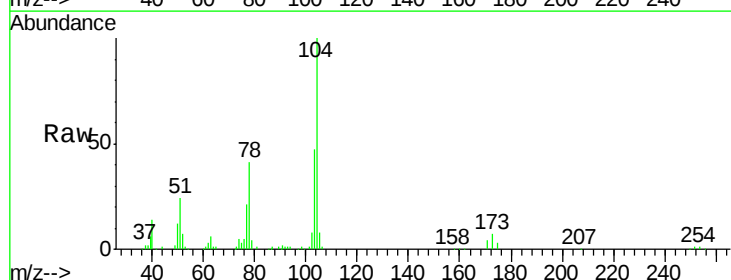
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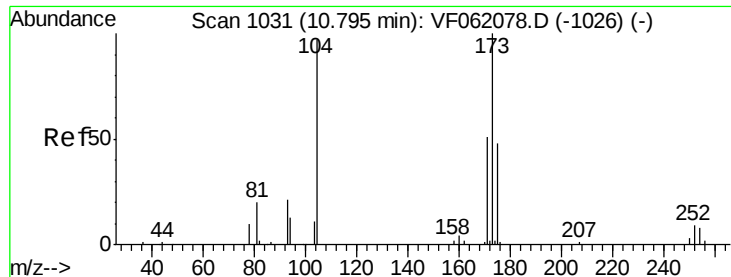
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#70
Styrene
Concen: 21.620 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.8	34.3	51.5
103	46.9	36.9	55.3





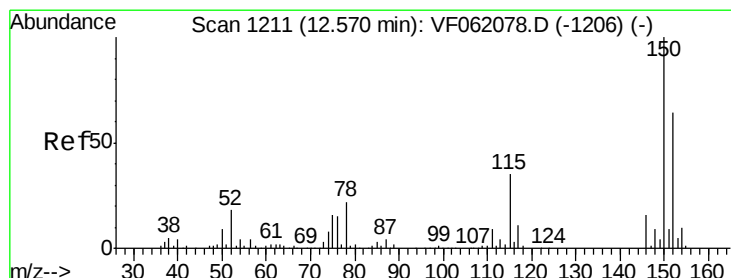
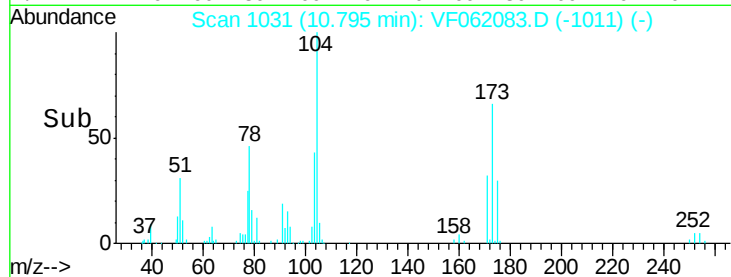
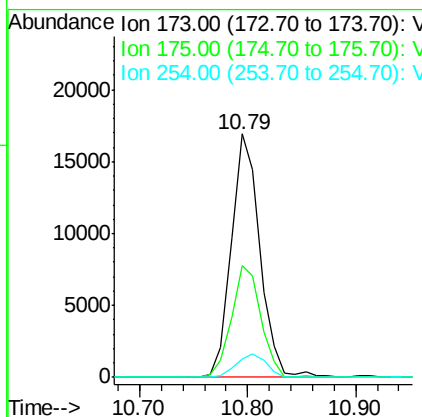
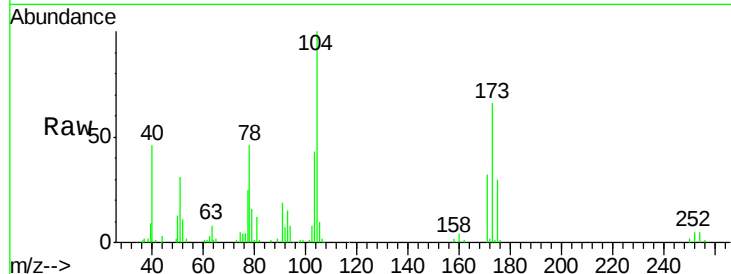
#71
Bromoform
Concen: 20.932 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.8	24.1	72.4
254	7.5	6.2	9.4

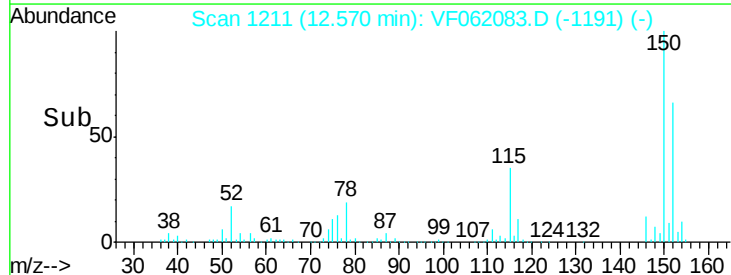
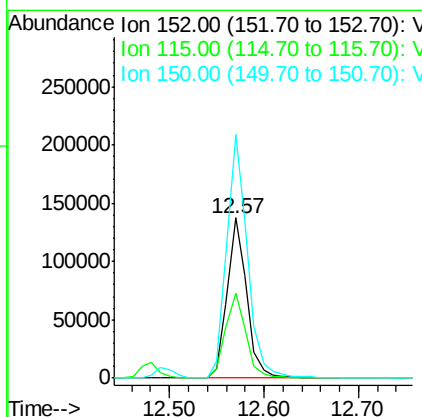
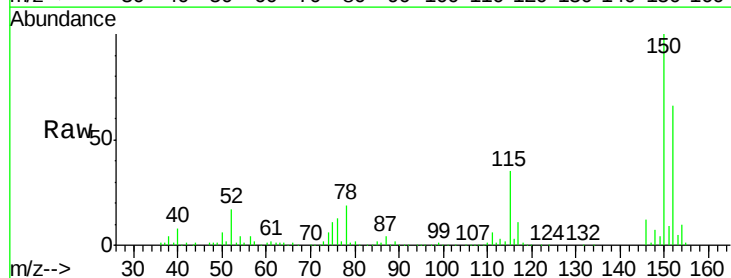
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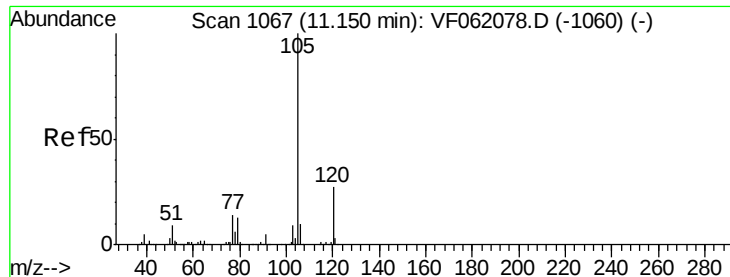
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.4	27.7	83.1
150	152.3	0.0	313.2





#73

Isopropylbenzene

Concen: 22.858 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion:105 Resp: 318311

Ion Ratio Lower Upper

105 100

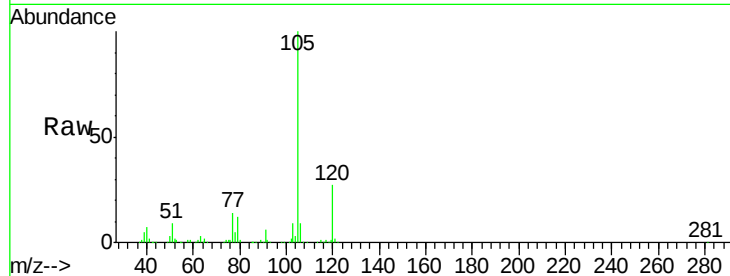
120 27.2 13.8 41.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.15

200000

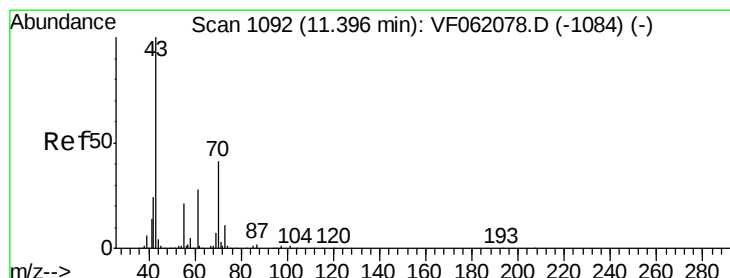
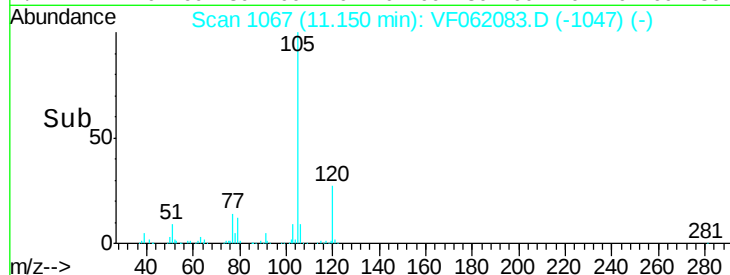
150000

100000

50000

0

Time--> 11.00 11.20



#74

N-ethyl acetate

Concen: 22.059 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion: 43 Resp: 73194

Ion Ratio Lower Upper

43 100

70 42.6 32.9 49.3

55 18.9 17.1 25.7

61 29.8 22.2 33.2

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

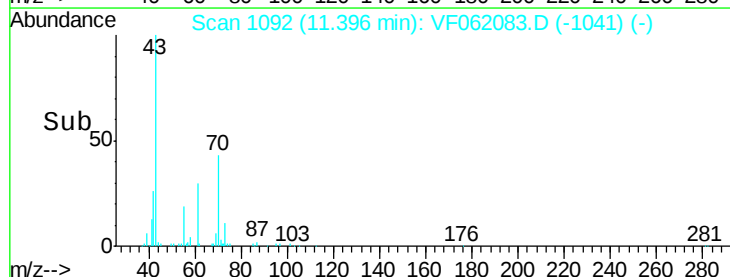
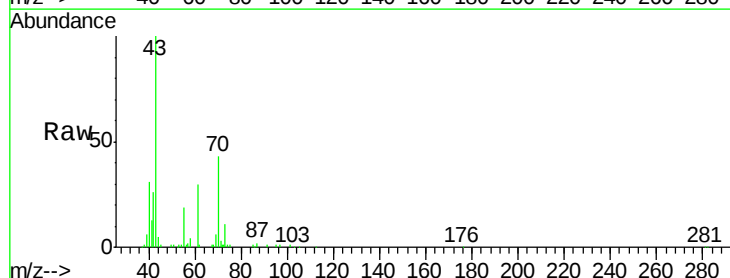
30000

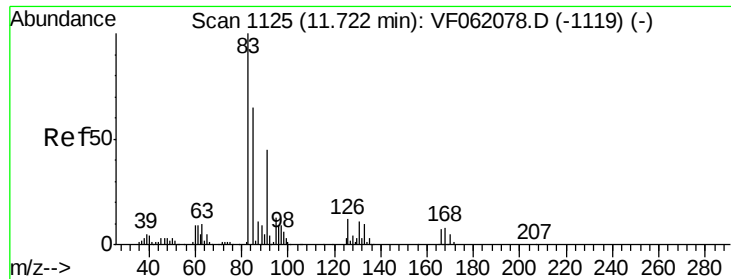
20000

10000

0

Time--> 11.30 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 21.794 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

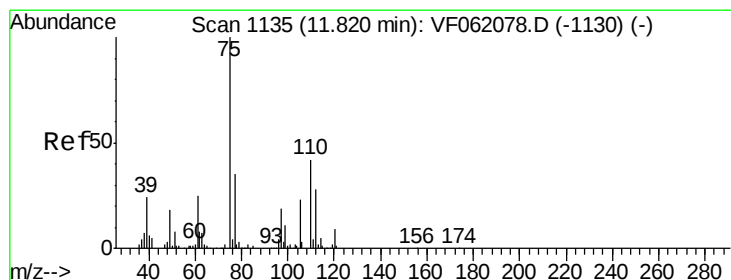
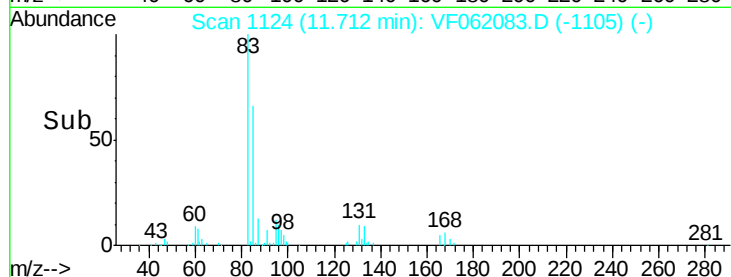
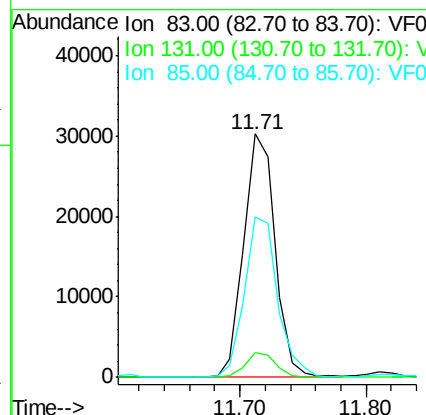
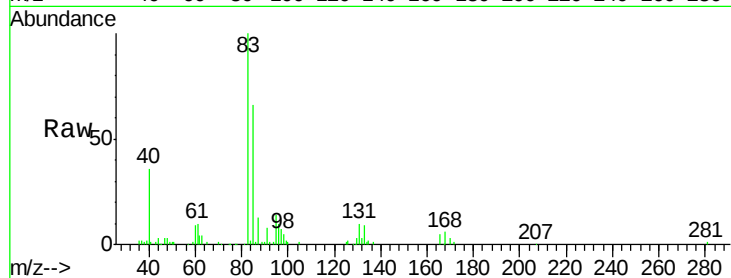
ClientSampleId :

VF0322SBS01

Tot Ion:	83	Resp:	52110
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.3	15.8
85	65.7	32.6	98.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.554 ug/l

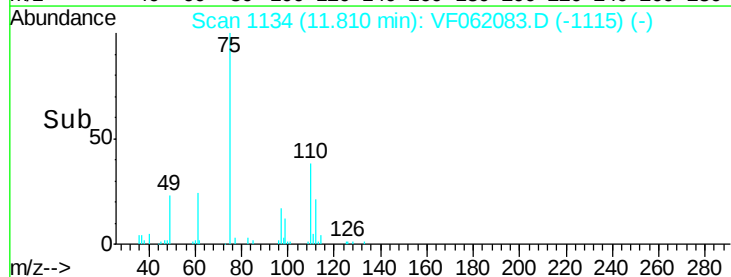
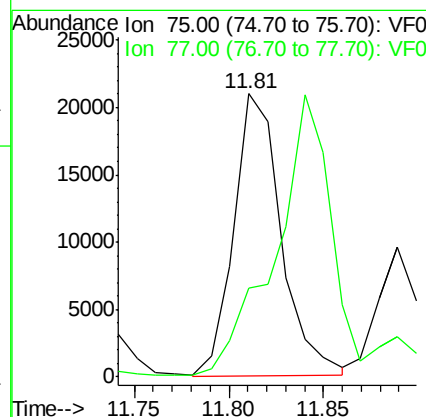
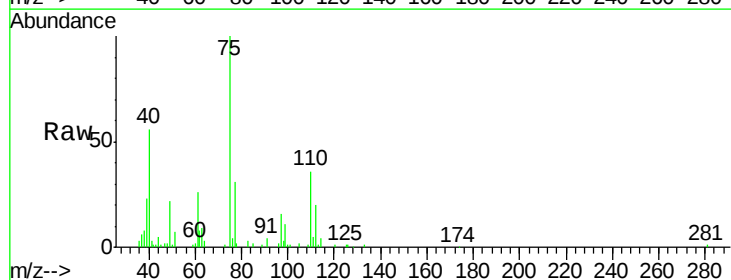
RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	75	Resp:	36269
Ion Ratio	Lower	Upper	
75	100		
77	31.4	17.8	53.3





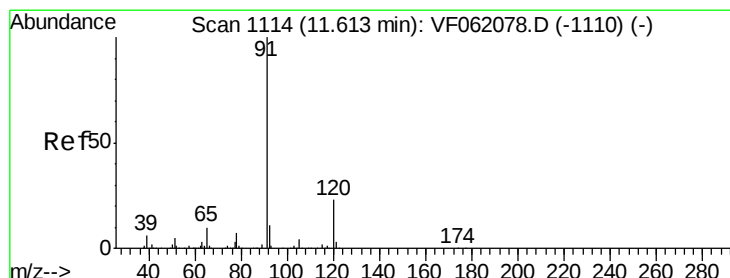
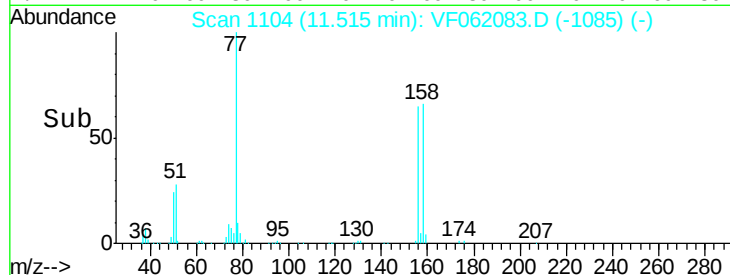
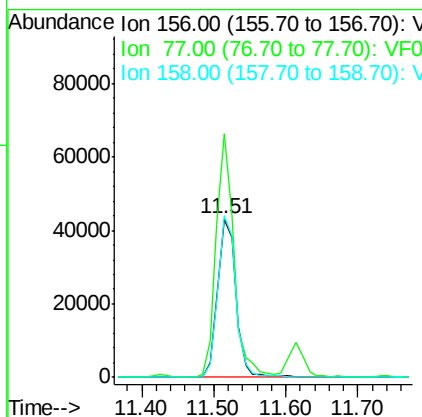
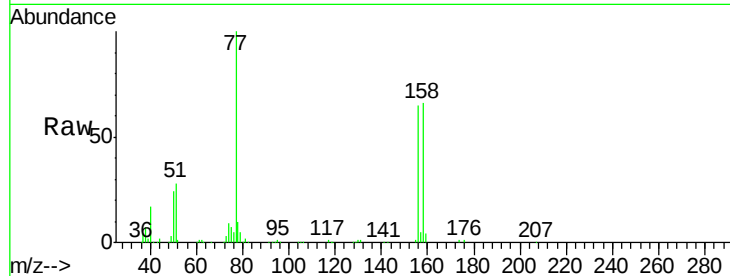
#77
Bromobenzene
Concen: 22.156 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	154.3	61.3	183.9
158	102.4	48.6	145.9

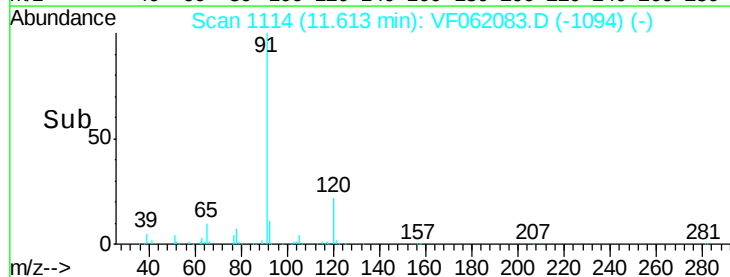
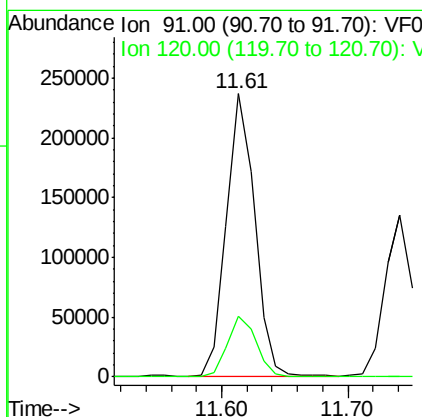
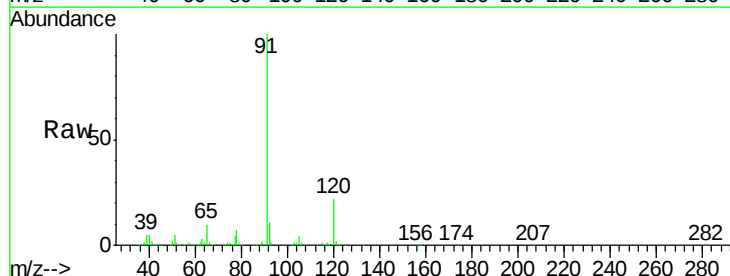
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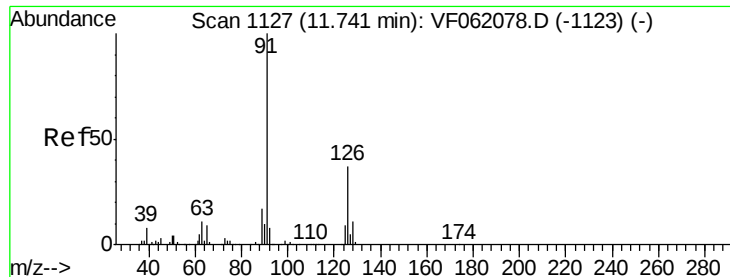
MMDadoda
3/27/2019 11:57:15 AM



#78
n-propylbenzene
Concen: 22.865 ug/l
RT: 11.61 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.3	33.8





#79

2-Chlorotoluene

Concen: 23.001 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion: 91 Resp: 206728

Ion Ratio Lower Upper

91 100

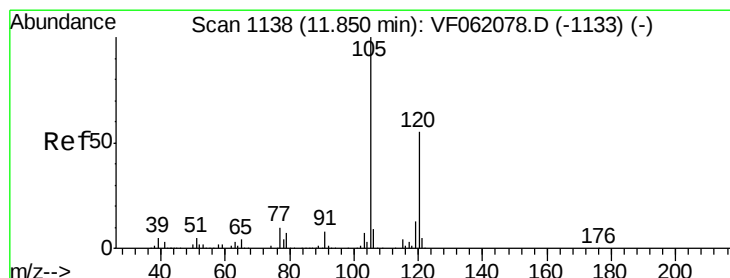
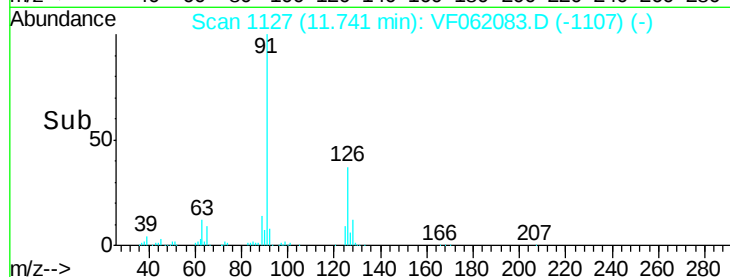
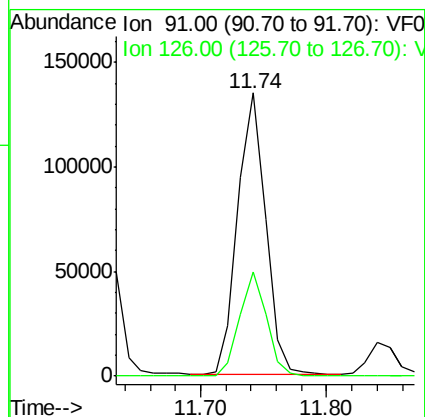
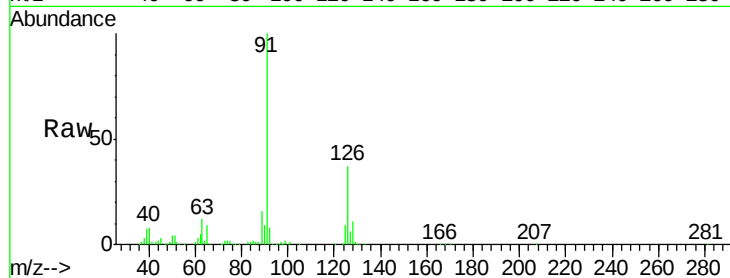
126 36.9 18.3 54.8

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#80

1,3,5-Trimethylbenzene

Concen: 21.909 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062083.D

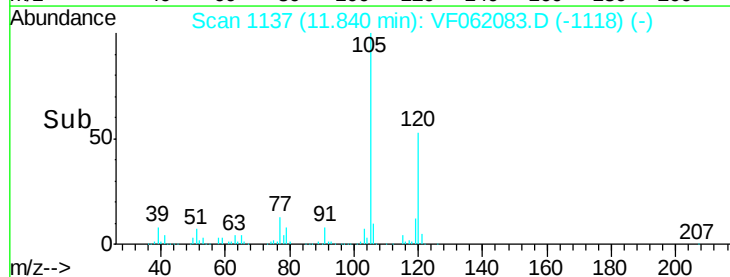
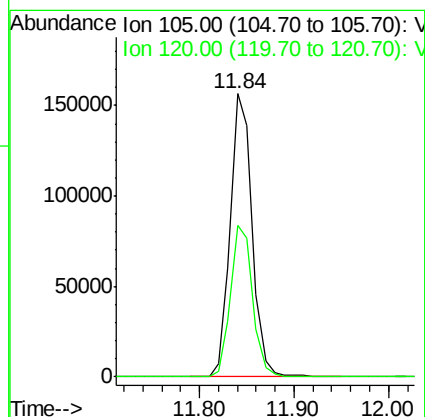
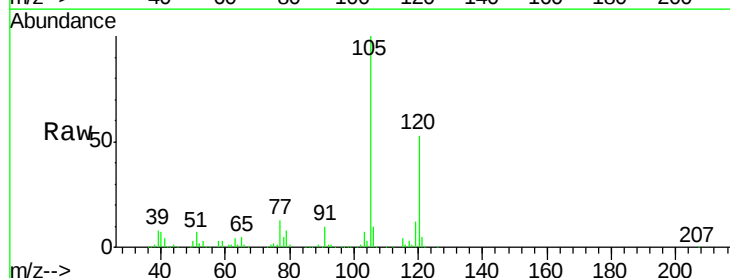
Acq: 22 Mar 2019 15:27

Tgt Ion: 105 Resp: 250953

Ion Ratio Lower Upper

105 100

120 53.4 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 22.393 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

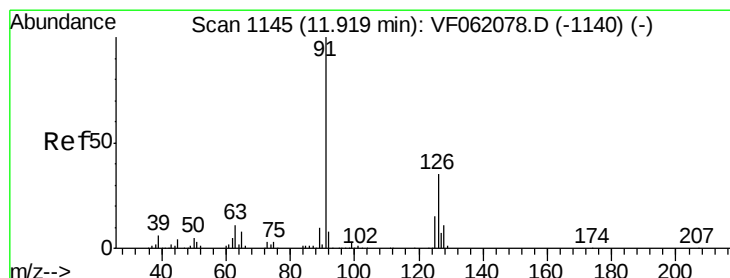
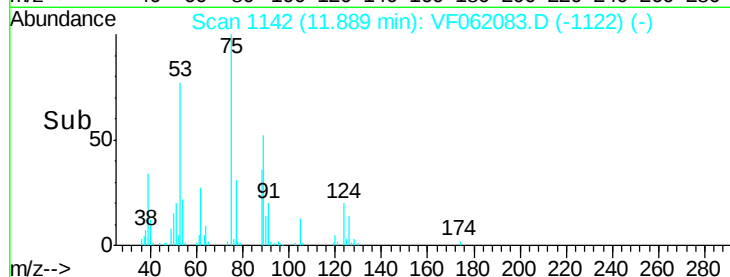
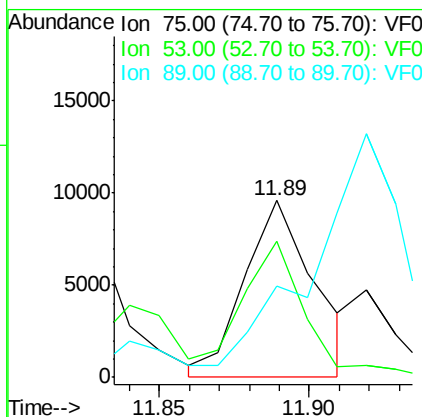
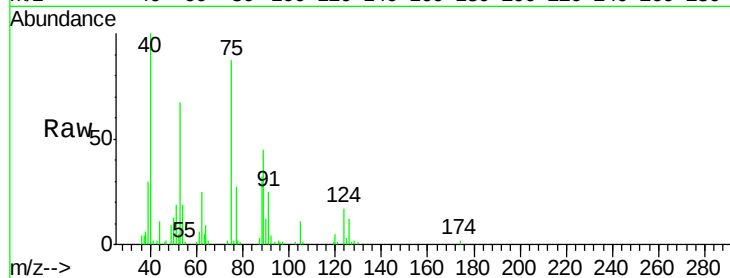
ClientSampleId :

VF0322SBS01

Tot Ion:	75	Resp:	15354
Ion	Ratio	Lower	Upper
75	100		
53	76.8	49.4	74.0#
89	51.9	40.6	60.8

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#82

4-Chlorotoluene

Concen: 22.753 ug/l

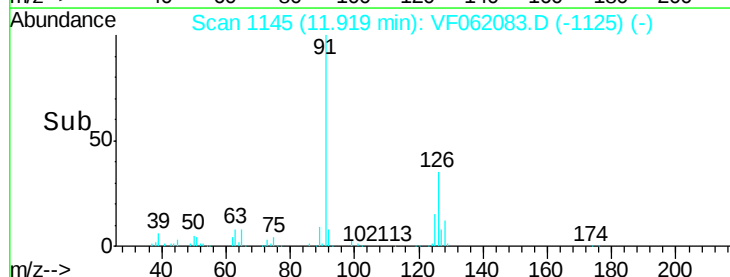
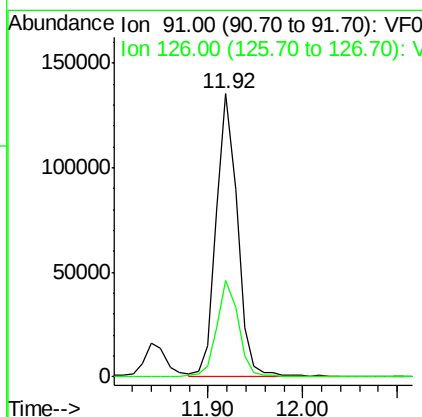
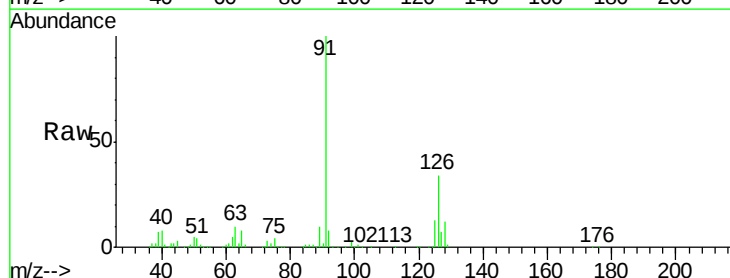
RT: 11.92 min Scan# 1145

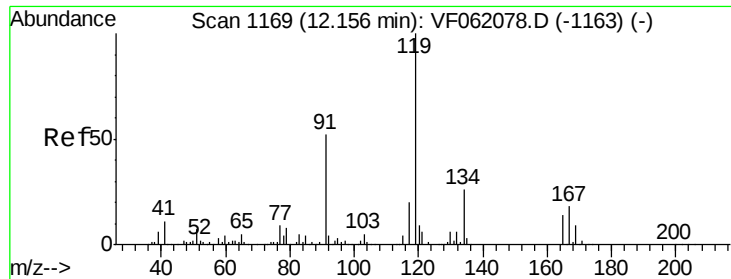
Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	91	Resp:	209677
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.2	51.6





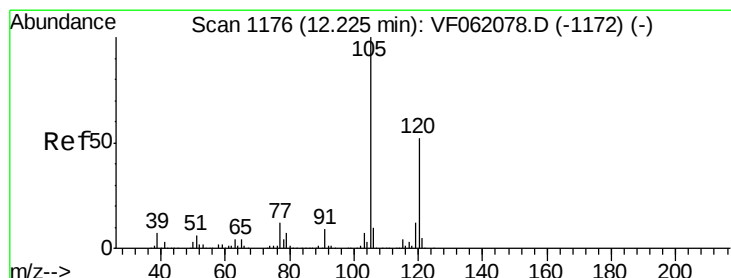
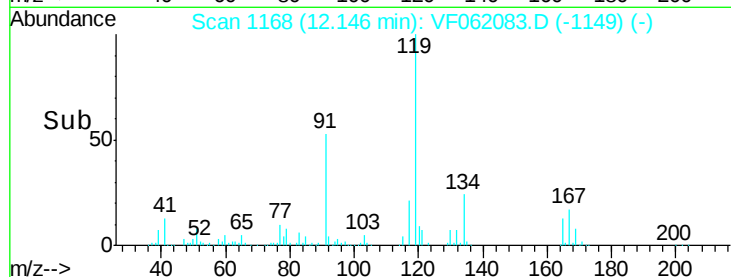
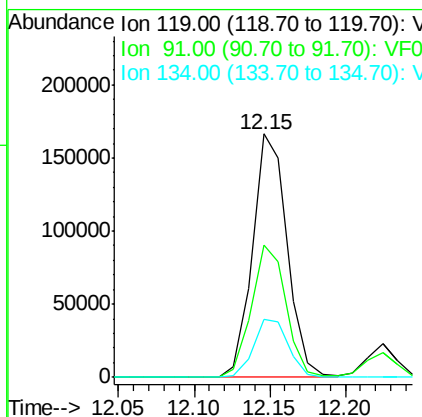
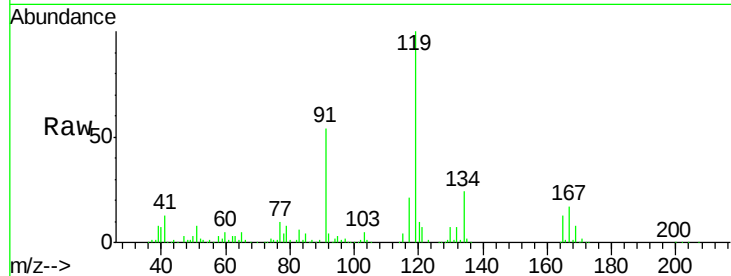
#83
tert-Butylbenzene
Concen: 22.226 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	266498		
91	54.4	26.1	78.2	
134	23.9	12.8	38.4	

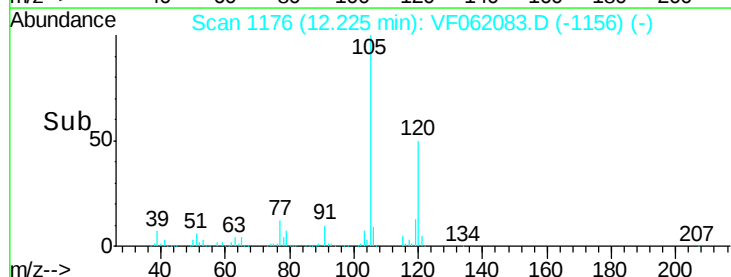
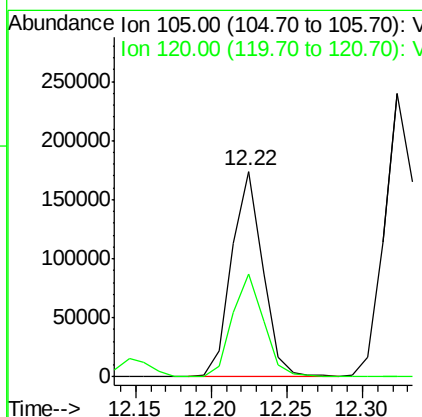
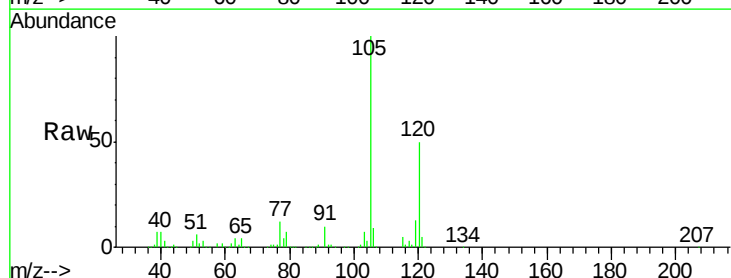
Manual Integrations
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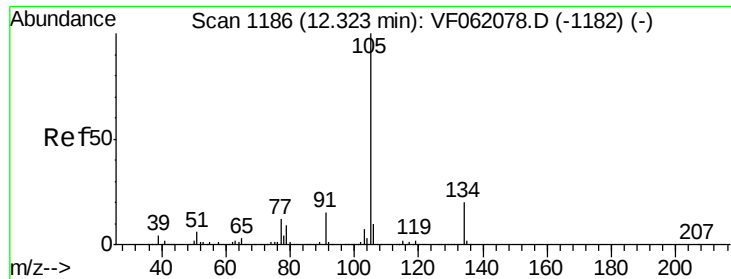
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#84
1,2,4-Trimethylbenzene
Concen: 22.252 ug/l
RT: 12.22 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	249858		
120	50.3	26.1	78.2	





#85

sec-Butylbenzene

Concen: 22.517 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS01

Tot Ion:105 Resp: 349279

Ion Ratio Lower Upper

105 100

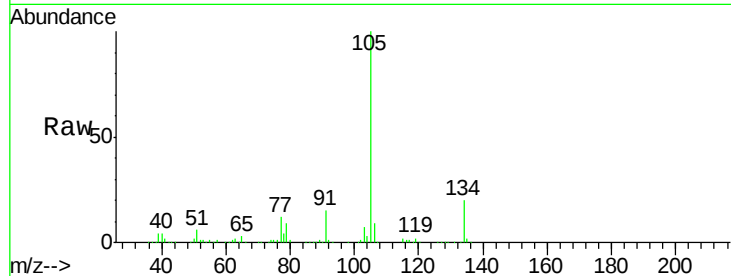
134 19.8 10.2 30.4

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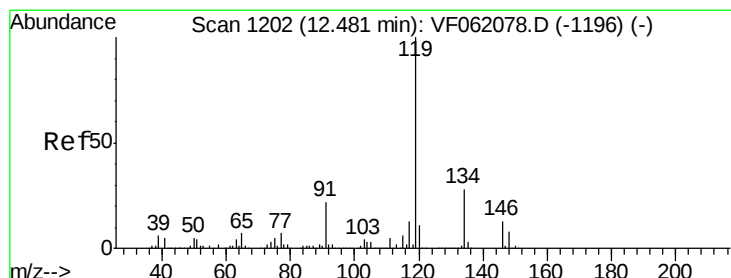
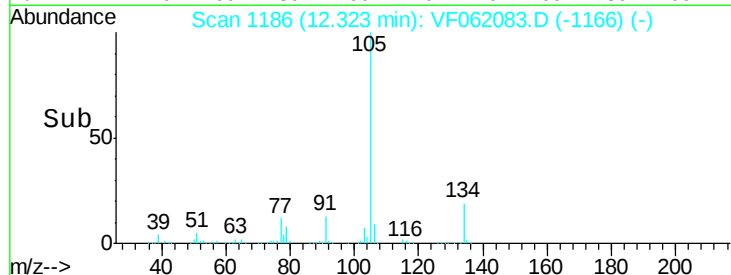
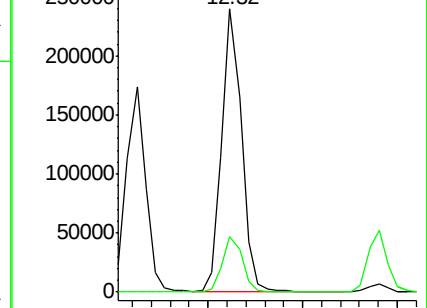
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.937 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

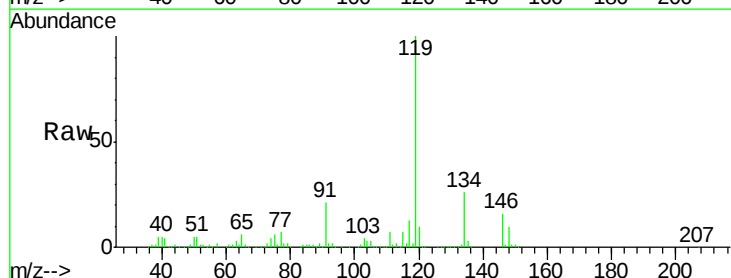
Tgt Ion:119 Resp: 294812

Ion Ratio Lower Upper

119 100

134 25.7 14.0 42.0

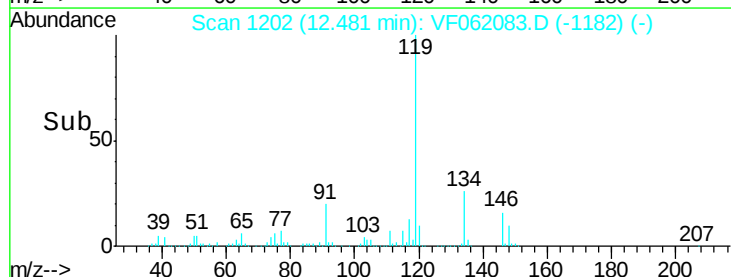
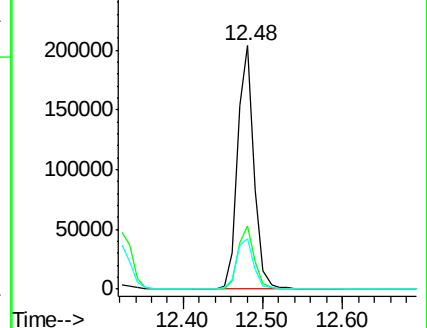
91 20.6 10.8 32.4

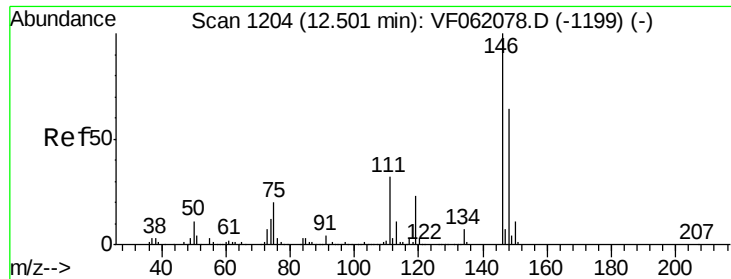


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 21.792 ug/l

RT: 12.49 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Instrument :

MSVOA_F

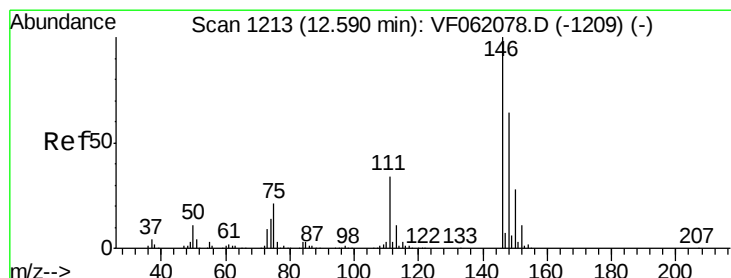
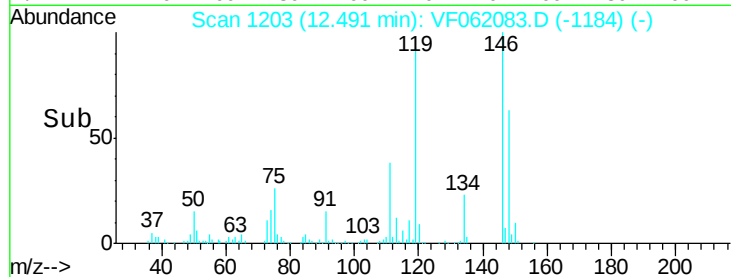
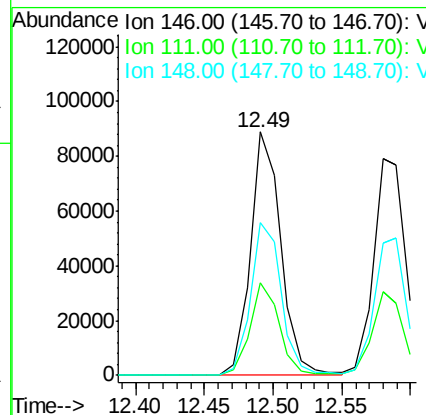
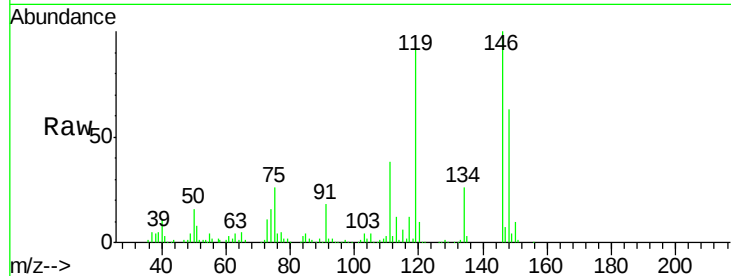
ClientSampleId :

VF0322SBS01

Tot Ion:	146	Resp:	137742
Ion Ratio	Lower	Upper	
146	100		
111	38.0	16.1	48.3
148	62.8	31.9	95.7

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#88

1,4-Dichlorobenzene

Concen: 21.270 ug/l

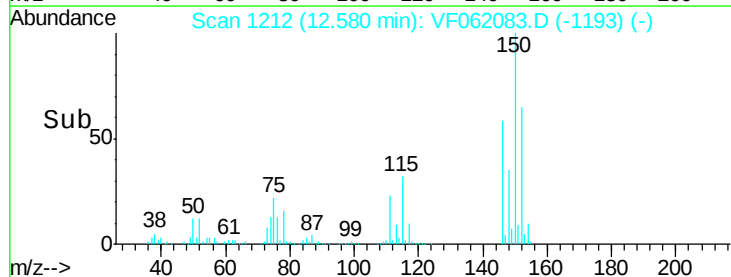
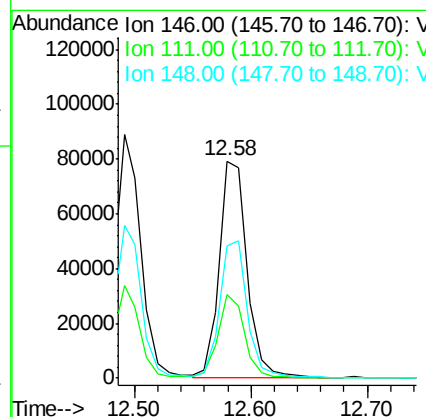
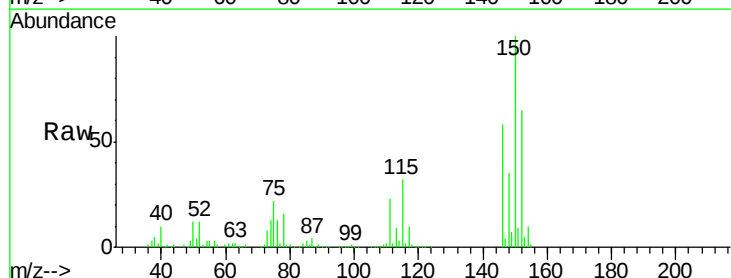
RT: 12.58 min Scan# 1212

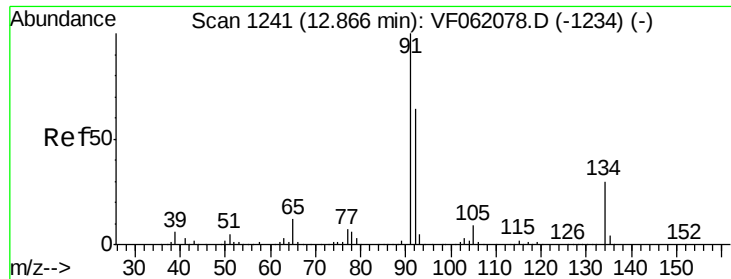
Delta R.T. -0.01 min

Lab File: VF062083.D

Acq: 22 Mar 2019 15:27

Tgt Ion:	146	Resp:	131188
Ion Ratio	Lower	Upper	
146	100		
111	38.8	16.9	50.6
148	60.7	31.9	95.7





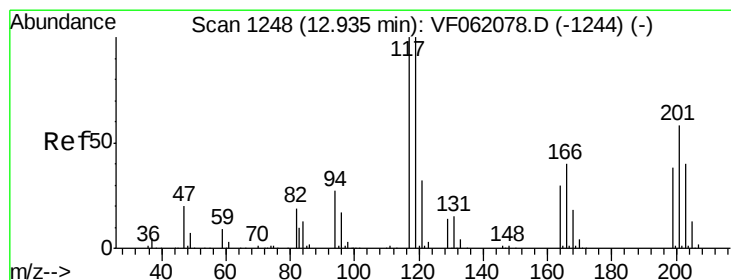
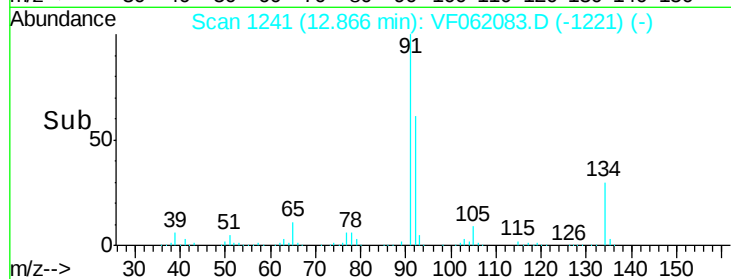
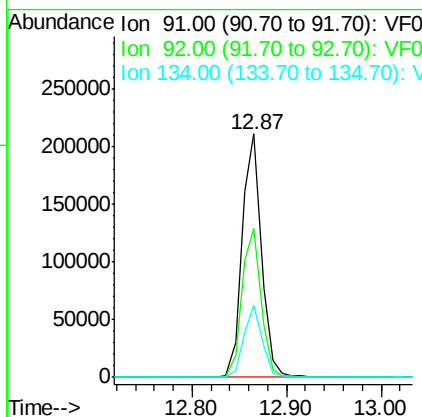
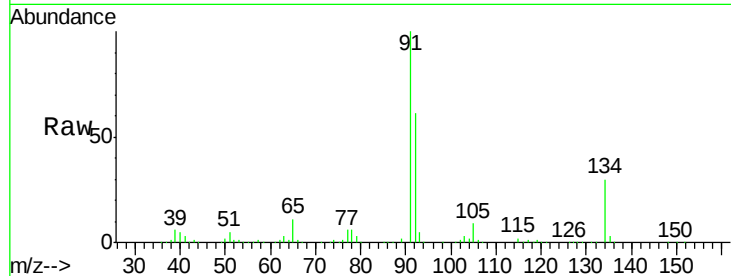
#89
n-Butylbenzene
Concen: 23.191 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	297335		
92	61.2		31.9	95.5
134	29.6		14.9	44.9

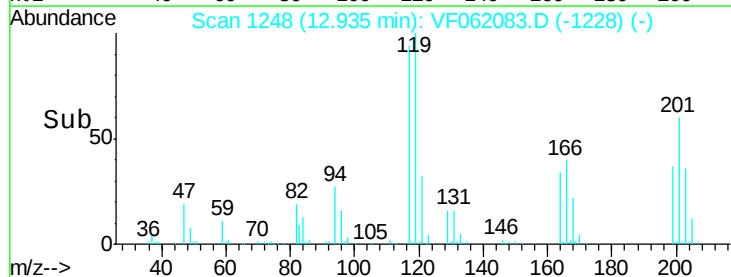
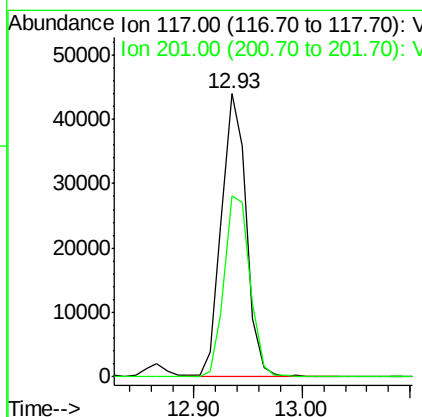
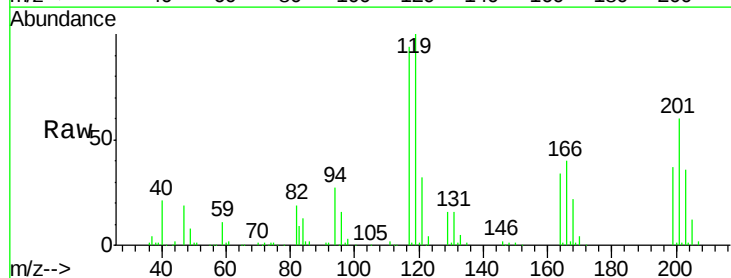
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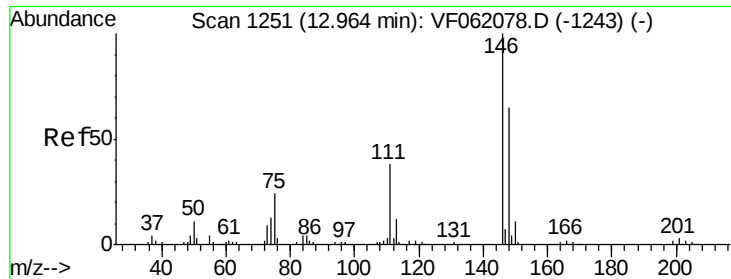
MMDadoda
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#90
Hexachloroethane
Concen: 21.937 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	70196		
201	64.0		28.7	86.1





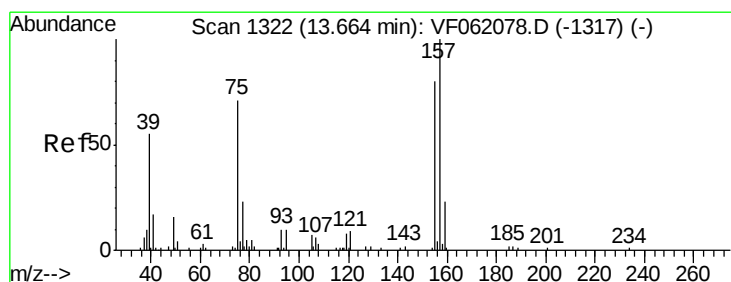
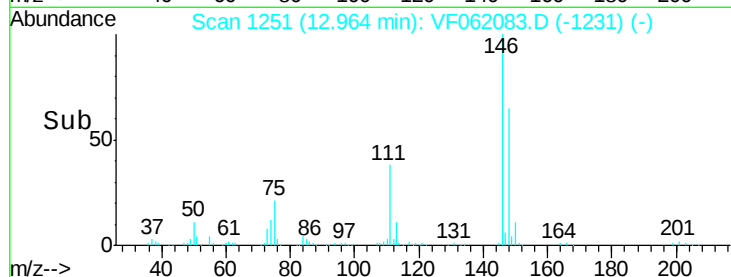
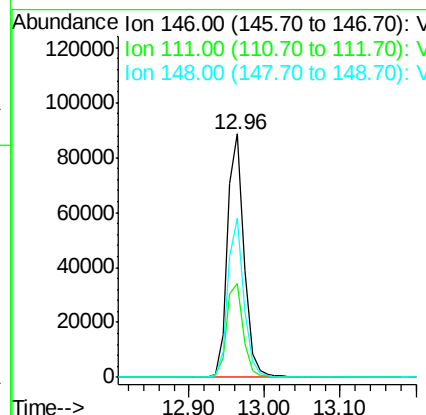
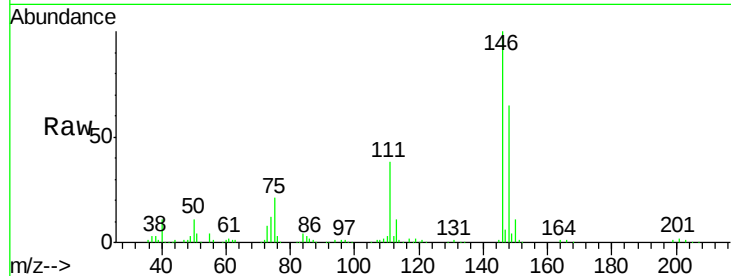
#91
 1,2-Dichlorobenzene
 Concen: 22.873 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.3
148	65.3	32.8	98.3

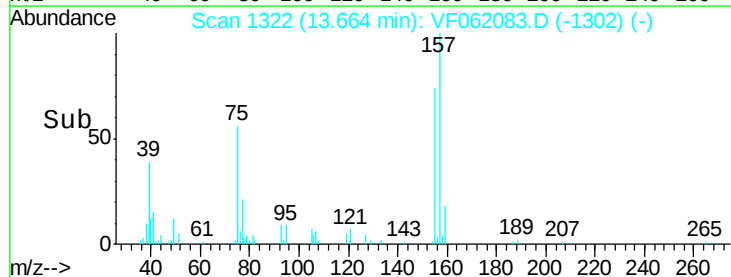
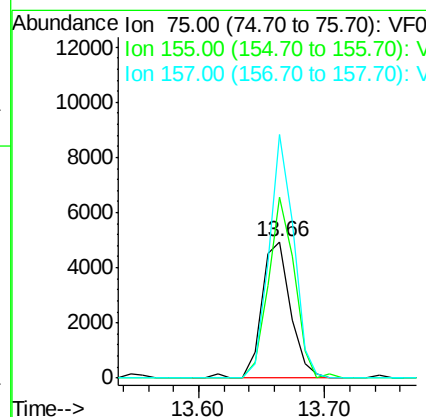
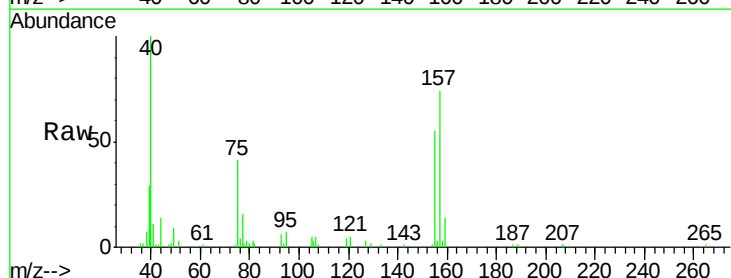
Manual Integrations
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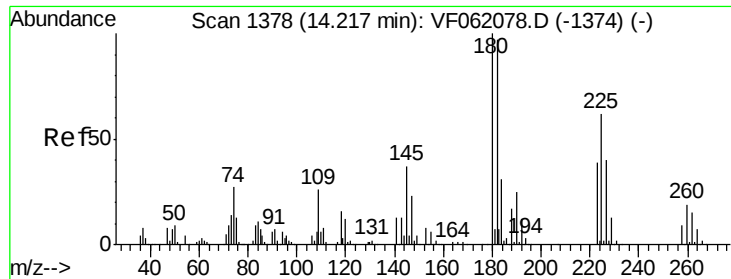
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.718 ug/l
 RT: 13.66 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	132.9	56.1	168.4
157	178.8	70.4	211.2





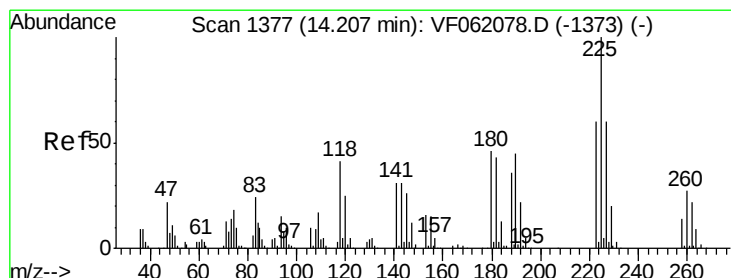
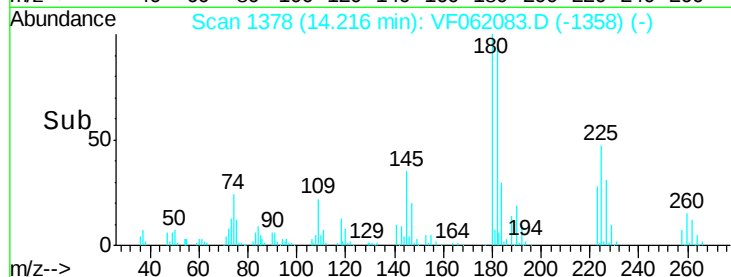
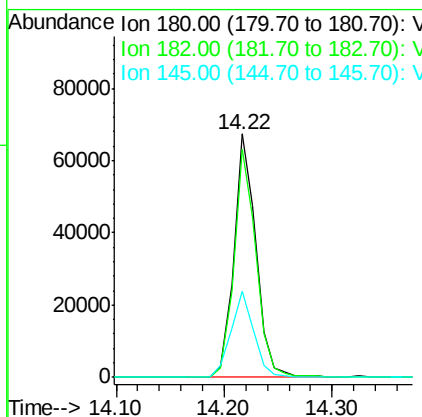
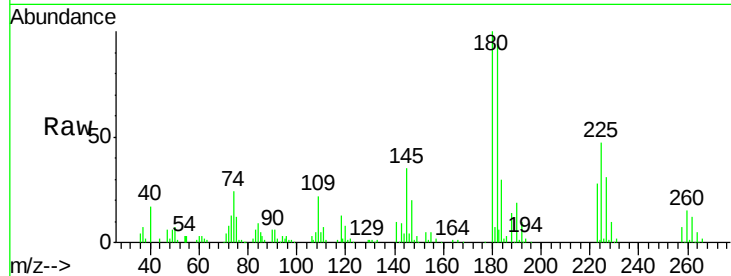
#93
 1,2,4-Trichlorobenzene
 Concen: 23.128 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	95672		
182	93.6	48.7	146.1	
145	35.3	18.3	54.8	

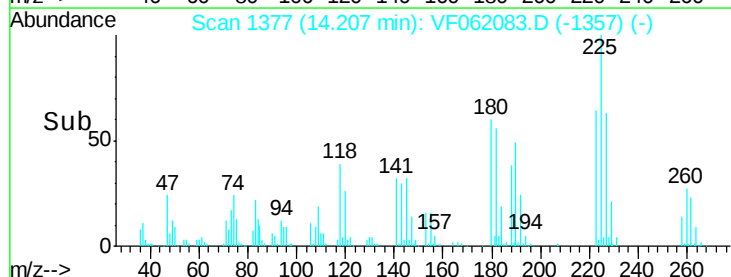
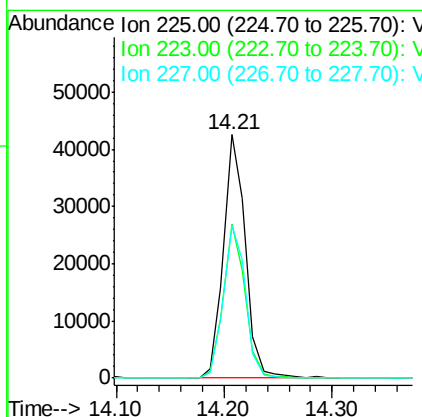
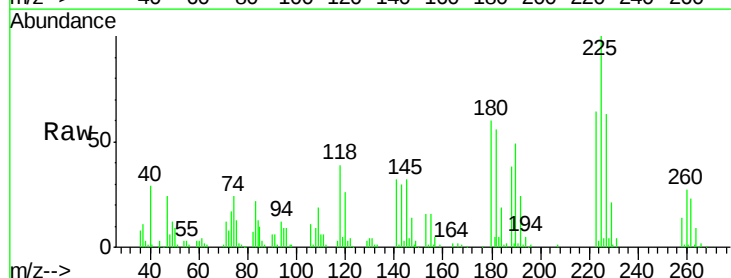
Manual Integrations
 APPROVED

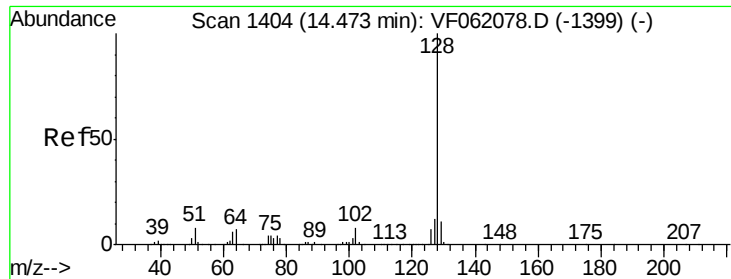
MMDadoda
 3/27/2019 11:57:15 AM



#94
 Hexachlorobutadiene
 Concen: 21.846 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062083.D
 Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	60084		
223	63.5	30.0	90.0	
227	62.8	30.2	90.6	





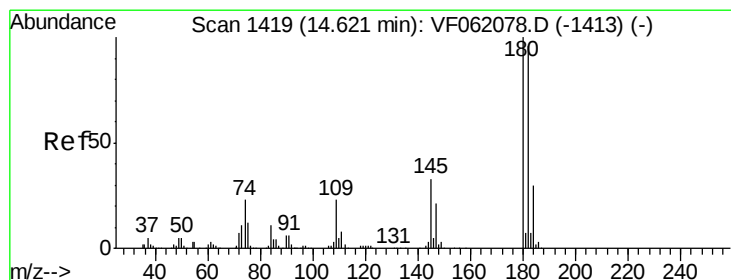
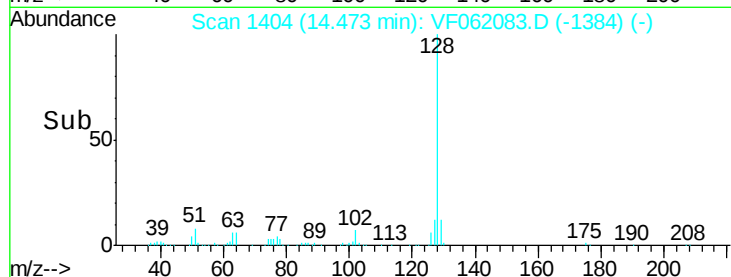
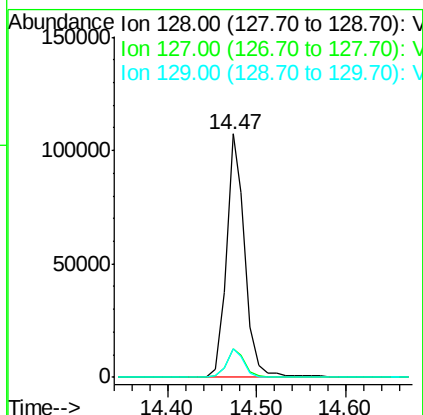
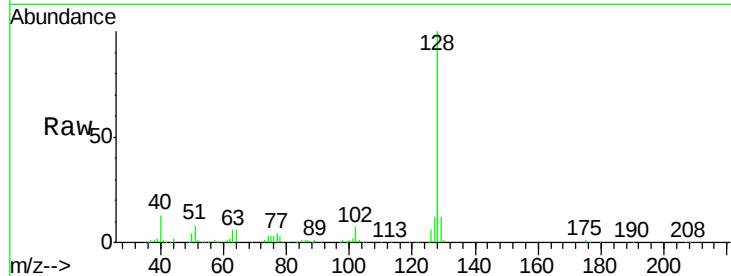
#95
Naphthalene
Concen: 21.591 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	156511		
127	11.8	9.5	14.3	
129	11.8	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.961 ug/l
RT: 14.62 min Scan# 1419
Delta R.T. -0.00 min
Lab File: VF062083.D
Acq: 22 Mar 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	85033		
182	94.5	47.9	143.7	
145	30.2	16.6	49.7	

