

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031219\
 Data File : VF061907.D
 Acq On : 12 Mar 2019 16:11
 Operator : VA/AP
 Sample : VF0312SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 4:41:21 PM

Quant Time: Mar 13 02:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	287528	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	431338	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	357989	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	201462	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	120387	57.49	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	114.98%	
35) Dibromofluoromethane	4.10	113	171455	56.96	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	113.92%	
50) Toluene-d8	7.54	98	474028	52.98	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	105.96%	
62) 4-Bromofluorobenzene	11.40	95	184606	52.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	105.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	82370	23.334	ug/l	95
3) Chloromethane	1.09	50	77026	22.515	ug/l #	88
4) Vinyl Chloride	1.13	62	80781	24.874	ug/l	98
5) Bromomethane	1.31	94	52943	23.921	ug/l	90
6) Chloroethane	1.39	64	37306	24.166	ug/l #	87
7) Trichlorofluoromethane	1.47	101	100474	25.331	ug/l	99
8) Diethyl Ether	1.62	74	19945	22.113	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.84	101	70250	26.081	ug/l	96
10) Methyl Iodide	1.91	142	120552m	23.519	ug/l	
11) Tert butyl alcohol	2.58	59	13251	111.495	ug/l	96
12) 1,1-Dichloroethene	1.79	96	58775	23.901	ug/l	87
13) Acrolein	2.00	56	13070	86.789	ug/l	100
14) Allyl chloride	2.09	41	80435	29.691	ug/l	93
15) Acrylonitrile	2.94	53	43202	114.157	ug/l	97
16) Acetone	2.23	43	56803	129.506	ug/l	92
17) Carbon Disulfide	1.80	76	183298m	23.946	ug/l	
18) Methyl Acetate	2.34	43	25154m	29.656	ug/l	
19) Methyl tert-butyl Ether	2.42	73	107263	25.785	ug/l	98
20) Methylene Chloride	2.18	84	58661m	21.026	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	61504	26.575	ug/l	97
22) Diisopropyl ether	2.80	45	176712	25.076	ug/l	99
23) Vinyl Acetate	3.18	43	370042	117.544	ug/l	98
24) 1,1-Dichloroethane	2.86	63	105086	24.949	ug/l	98
25) 2-Butanone	4.33	43	99322	111.325	ug/l	100
26) 2,2-Dichloropropane	3.58	77	46525	24.743	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	74934	23.370	ug/l	98
28) Bromochloromethane	3.70	49	41158	22.416	ug/l	99
29) Tetrahydrofuran	4.06	42	43217	112.319	ug/l	97
30) Chloroform	3.85	83	116987	24.316	ug/l	100
31) Cyclohexane	3.67	56	103323m	23.420	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	71630	24.155	ug/l	100
36) 1,1-Dichloropropene	4.27	75	92027	22.586	ug/l	96
37) Ethyl Acetate	4.10	43	36811	21.525	ug/l	98
38) Carbon Tetrachloride	3.98	117	68842	23.868	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	108015	22.444	ug/l	98
40) Benzene	4.62	78	237750	22.323	ug/l	99
41) Methacrylonitrile	4.73	41	20418	21.791	ug/l	94
42) 1,2-Dichloroethane	4.93	62	61083	23.014	ug/l	96
43) Isopropyl Acetate	6.95	43	42212	20.024	ug/l	98
44) Trichloroethene	5.49	130	74944	22.643	ug/l	99
45) 1,2-Dichloropropane	6.22	63	56337	22.245	ug/l	93
46) Dibromomethane	6.07	93	35273	22.130	ug/l	97
47) Bromodichloromethane	6.38	83	82081	23.310	ug/l	97
48) Methyl methacrylate	6.70	41	26542	19.894	ug/l	96
49) 1,4-Dioxane	6.69	88	5431	445.302	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	166701	114.415	ug/l	100
52) Toluene	7.61	92	141440	22.449	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	63170	21.733	ug/l	92
54) cis-1,3-Dichloropropene	7.28	75	85529	21.333	ug/l	99
55) 1,1,2-Trichloroethane	8.48	97	39230	21.611	ug/l	94
56) Ethyl methacrylate	8.61	69	42075	20.566	ug/l	99
57) 1,3-Dichloropropane	8.83	76	63100	21.255	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	35760	110.496	ug/l	100
59) 2-Hexanone	9.48	43	121687	115.772	ug/l	98
60) Dibromochloromethane	8.70	129	55906	21.608	ug/l	96
61) 1,2-Dibromoethane	8.97	107	43849	21.966	ug/l	97
64) Tetrachloroethene	8.14	164	66453	24.158	ug/l	97
65) Chlorobenzene	9.78	112	154123	22.409	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	62722	23.538	ug/l	96
67) Ethyl Benzene	9.89	91	270656	23.743	ug/l	97
68) m/p-Xylenes	10.11	106	206690	47.330	ug/l	93
69) o-Xylene	10.70	106	110909	23.585	ug/l	93
70) Styrene	10.77	104	154886	23.404	ug/l	97
71) Bromoform	10.76	173	32028	22.741	ug/l	97
73) Isopropylbenzene	11.11	105	332054	23.941	ug/l	97
74) N-amyl acetate	11.36	43	73053	22.879	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.68	83	50327	21.832	ug/l	89
76) 1,2,3-Trichloropropane	11.78	75	36678	23.313	ug/l	97
77) Bromobenzene	11.48	156	71619	21.456	ug/l	92
78) n-propylbenzene	11.58	91	352725	22.520	ug/l	100
79) 2-Chlorotoluene	11.71	91	196936	21.993	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	254494	22.854	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	17304m	24.053	ug/l	
82) 4-Chlorotoluene	11.89	91	211543	23.096	ug/l	99
83) tert-Butylbenzene	12.12	119	286258	24.209	ug/l	90
84) 1,2,4-Trimethylbenzene	12.19	105	272507	24.963	ug/l	96
85) sec-Butylbenzene	12.29	105	360620	23.436	ug/l	98
86) p-Isopropyltoluene	12.45	119	321555	24.585	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	147961	23.345	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	141253	23.103	ug/l	97
89) n-Butylbenzene	12.84	91	303351	24.268	ug/l	94
90) Hexachloroethane	12.90	117	71615	22.748	ug/l	89
91) 1,2-Dichlorobenzene	12.93	146	139945	23.305	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8683	23.825	ug/l	92

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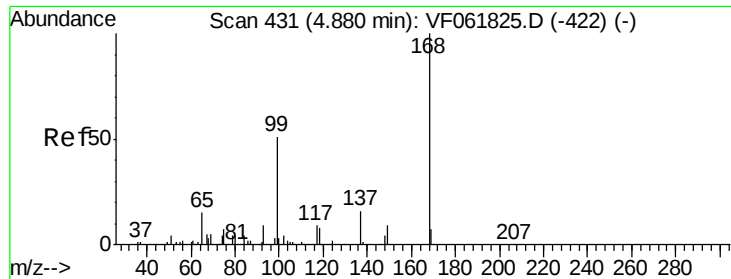
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	98767	23.461	ug/l	92
94) Hexachlorobutadiene	14.18	225	60797	20.861	ug/l	95
95) Naphthalene	14.44	128	165610	22.087	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	89370	22.992	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion:168 Resp: 287528

Ion Ratio Lower Upper

168 100

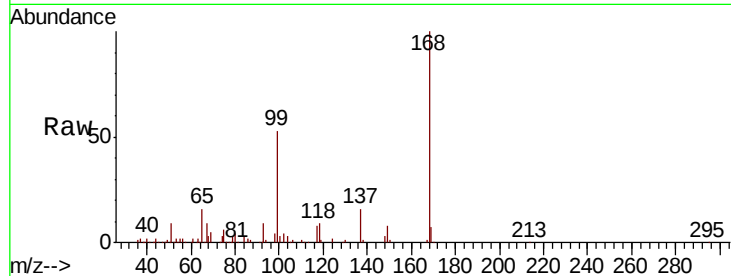
99 53.4 40.8 61.2

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

60000

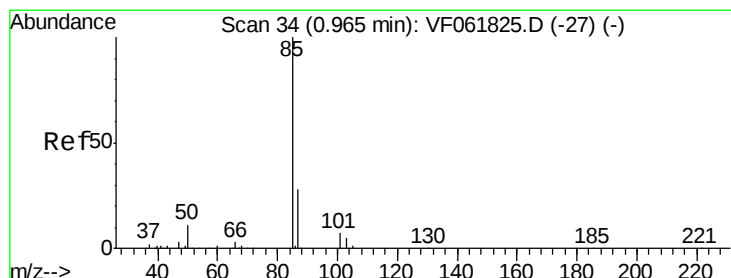
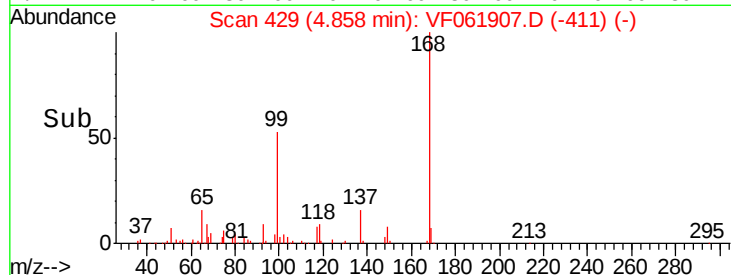
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 23.334 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061907.D

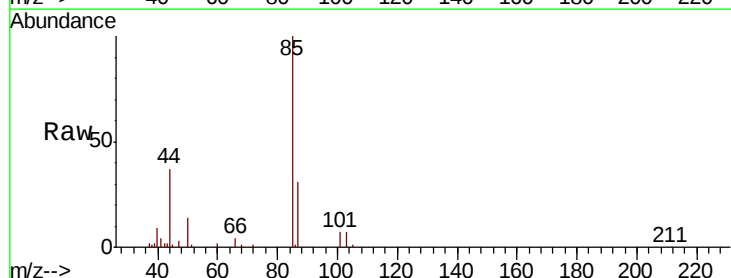
Acq: 12 Mar 2019 16:11

Tgt Ion: 85 Resp: 82370

Ion Ratio Lower Upper

85 100

87 30.8 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

15000

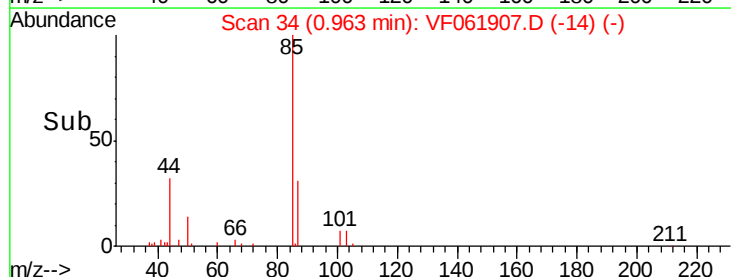
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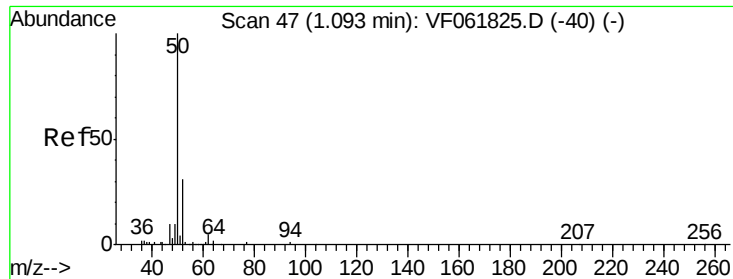
5000

0

0.80 0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 22.515 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 50 Resp: 77026

Ion Ratio Lower Upper

50 100

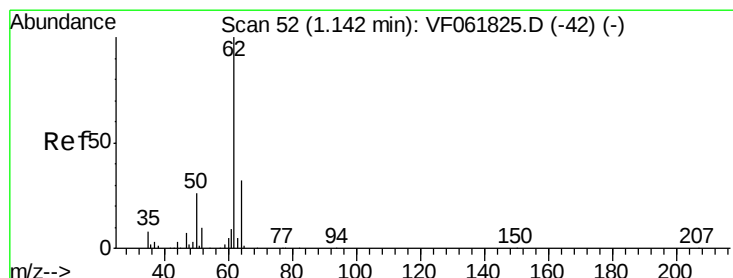
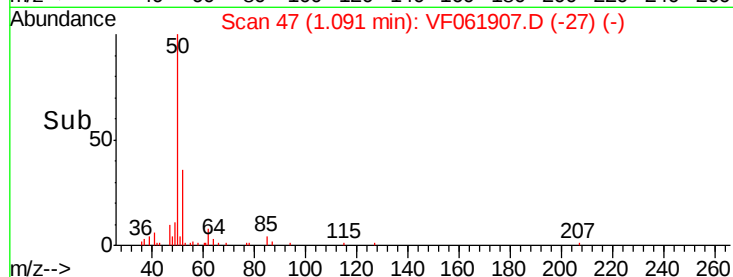
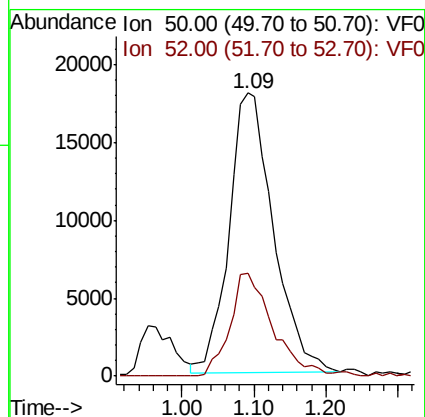
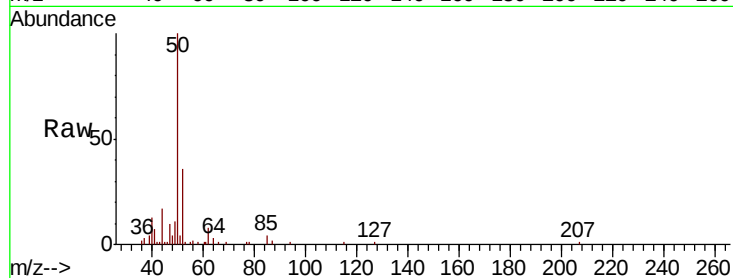
52 36.2 23.8 35.8#

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#4

Vinyl Chloride

Concen: 24.874 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061907.D

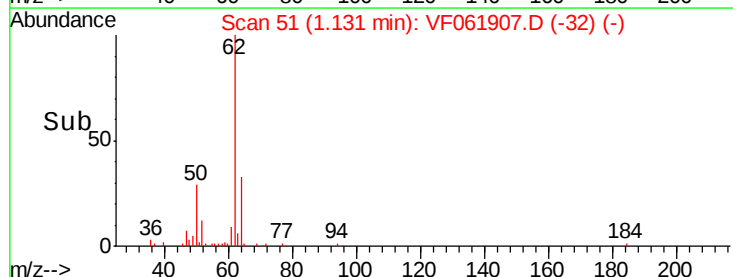
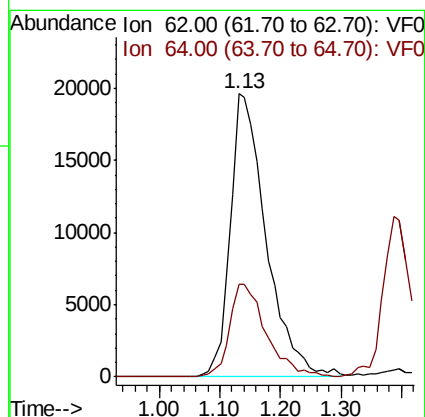
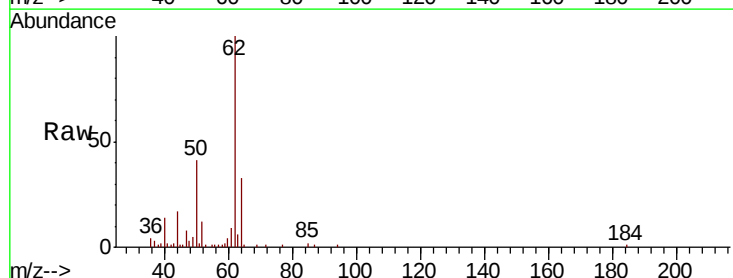
Acq: 12 Mar 2019 16:11

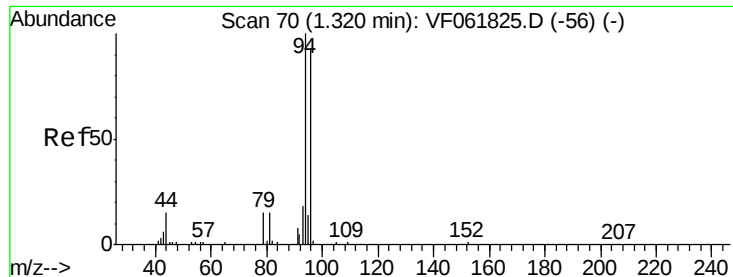
Tgt Ion: 62 Resp: 80781

Ion Ratio Lower Upper

62 100

64 32.8 25.2 37.8





#5

Bromomethane

Concen: 23.921 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 94 Resp: 52943

Ion Ratio Lower Upper

94 100

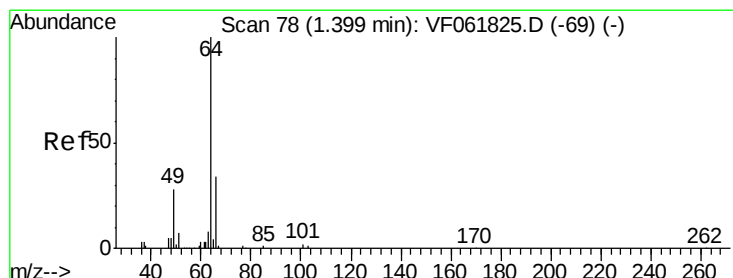
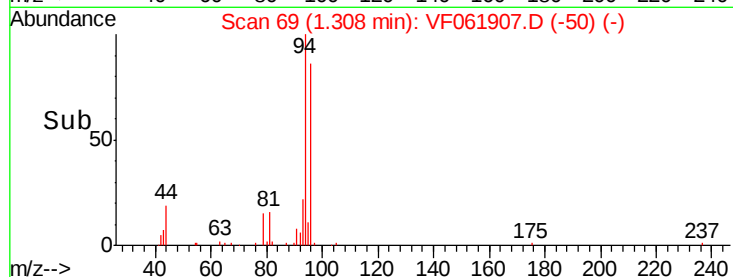
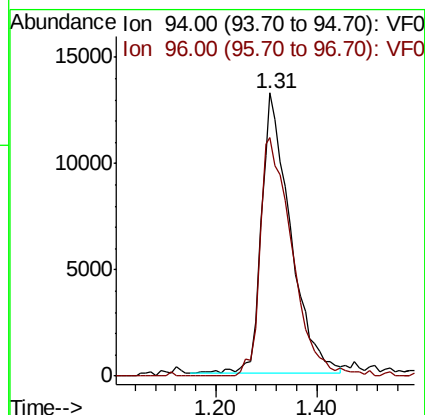
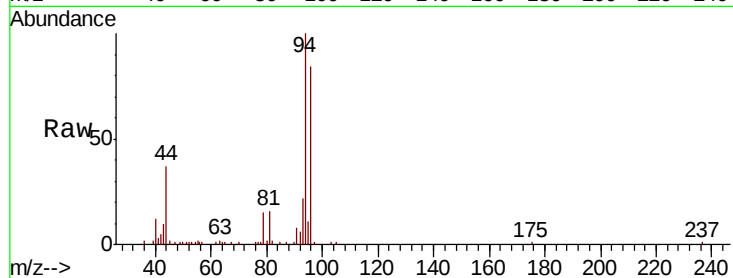
96 84.3 75.2 112.8

Manual Integrations

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#6

Chloroethane

Concen: 24.166 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061907.D

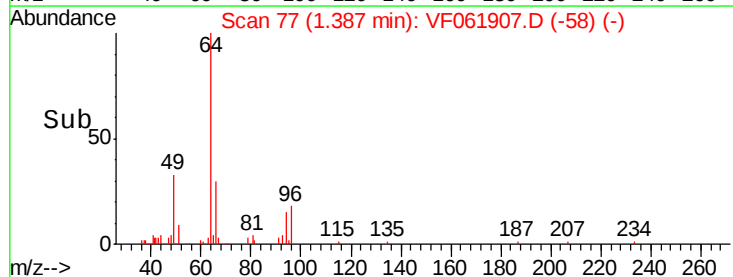
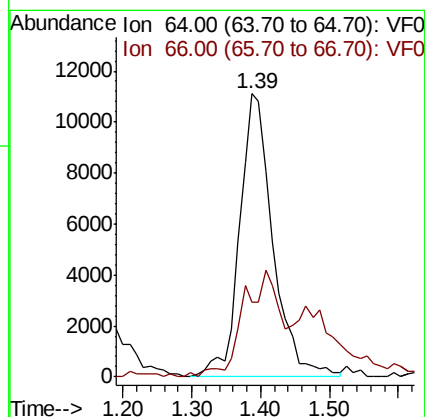
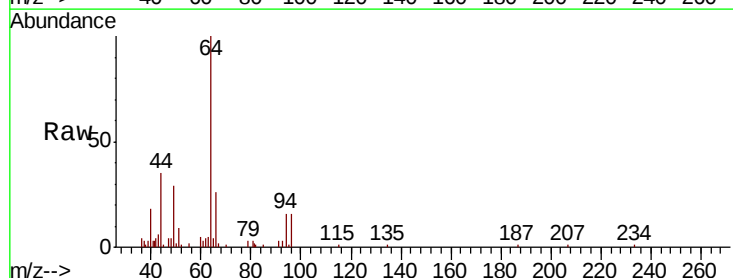
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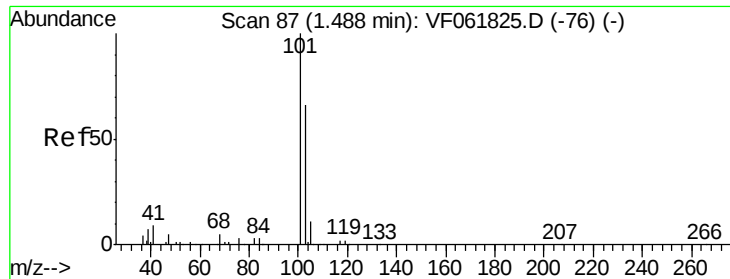
Tgt Ion: 64 Resp: 37306

Ion Ratio Lower Upper

64 100

66 26.3 27.0 40.4#





#7

Trichlorofluoromethane

Concen: 25.331 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

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Acq: 12 Mar 2019 16:11

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Tgt Ion:101 Resp: 100474

Ion Ratio Lower Upper

101 100

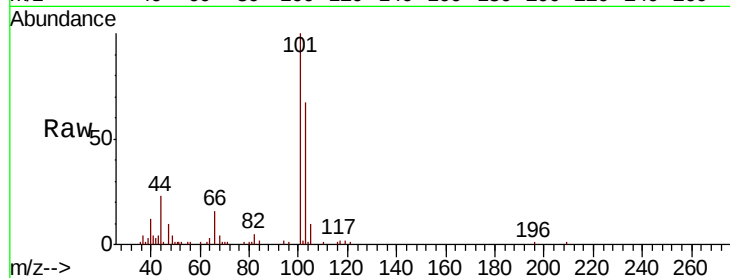
103 66.8 52.8 79.2

Manual Integrations

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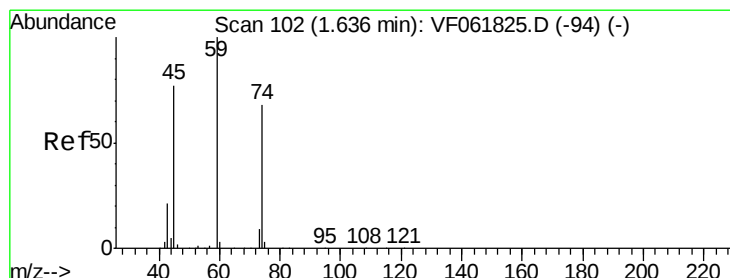
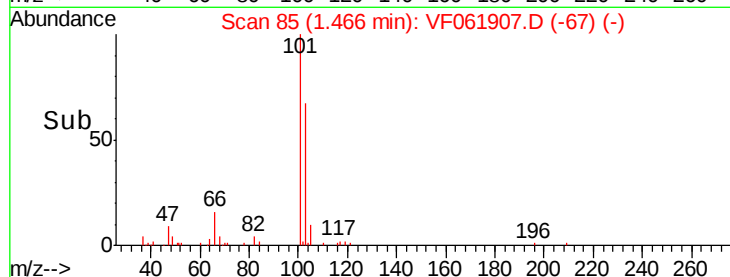
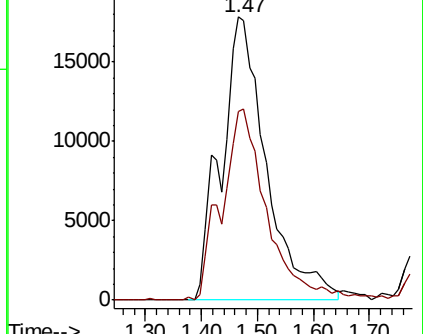
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 22.113 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061907.D

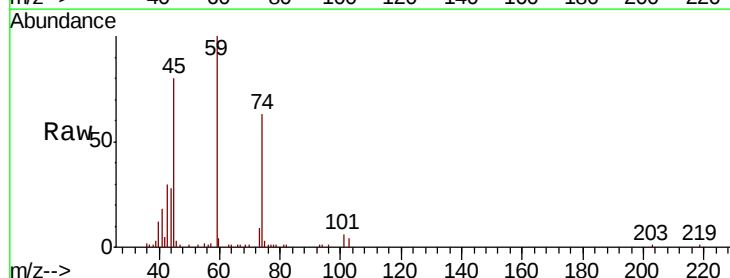
Acq: 12 Mar 2019 16:11

Tgt Ion: 74 Resp: 19945

Ion Ratio Lower Upper

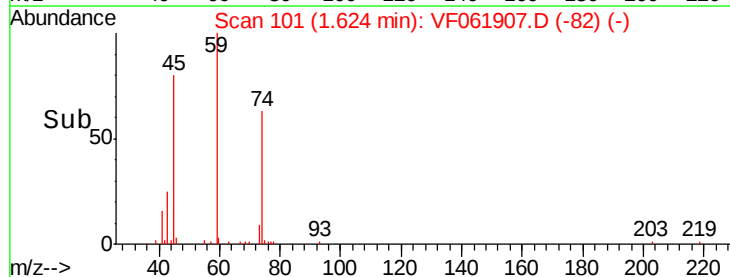
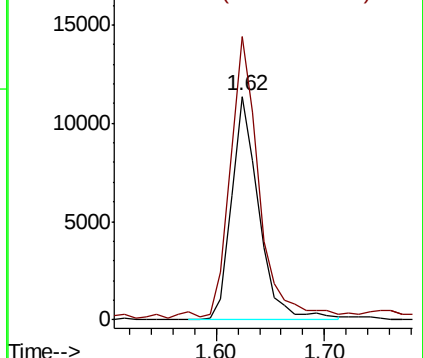
74 100

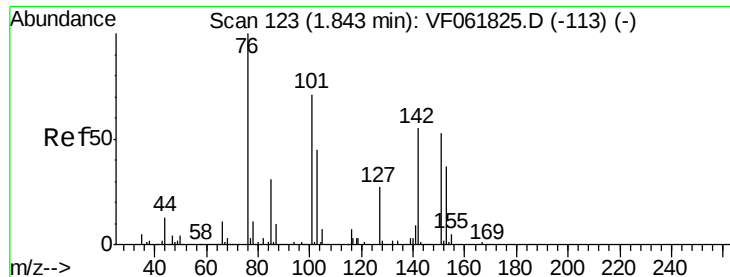
45 126.8 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 26.081 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

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MSVOA_F

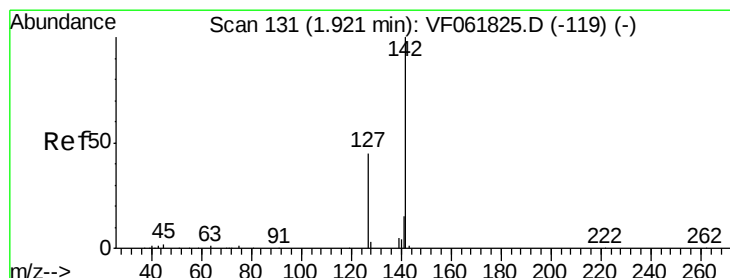
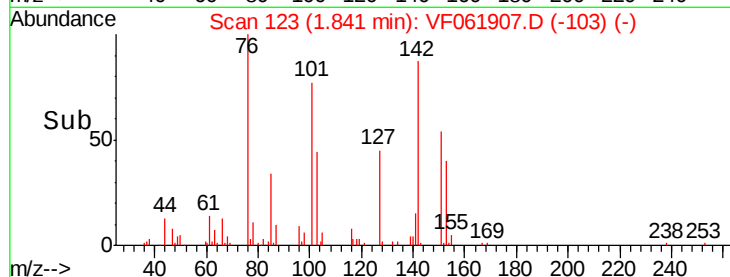
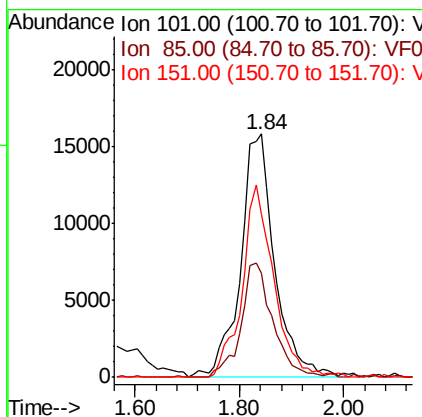
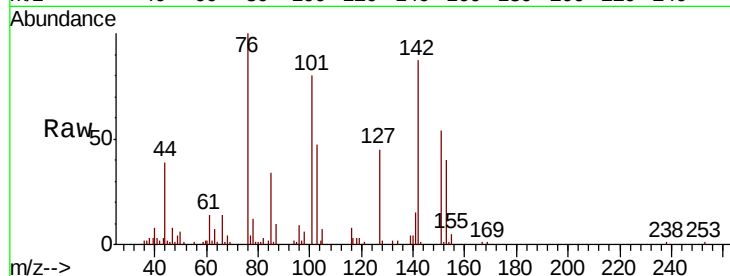
ClientSampleId :

VF0312SBS01

Tgt Ion:	101	Resp:	70250
Ion Ratio	Lower	Upper	
101	100		
85	42.9	34.0	51.0
151	67.0	57.3	85.9

Manual Integrations
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#10

Methyl Iodide

Concen: 23.519 ug/l m

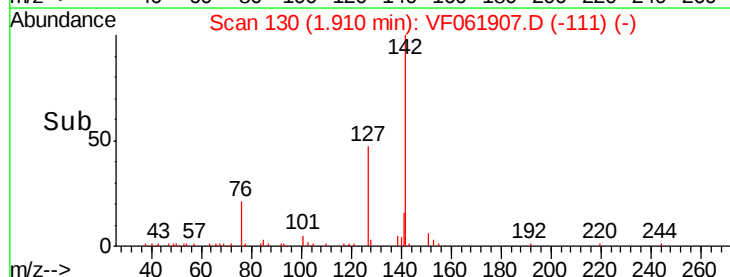
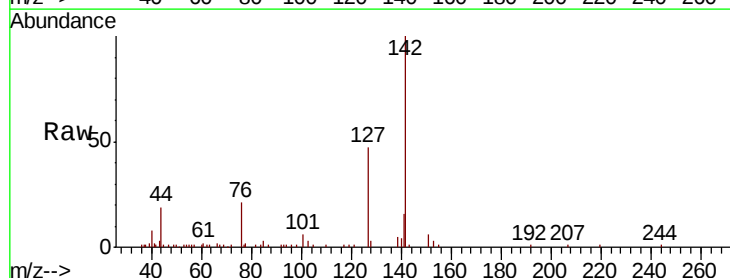
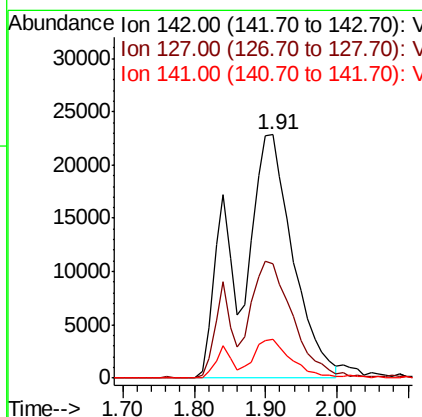
RT: 1.91 min Scan# 130

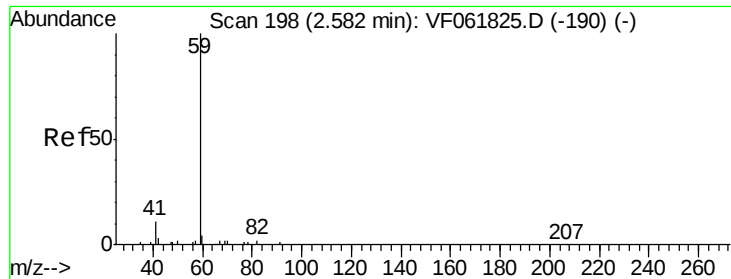
Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Tgt Ion:	142	Resp:	120552
Ion Ratio	Lower	Upper	
142	100		
127	47.2	35.8	53.6
141	16.2	11.7	17.5





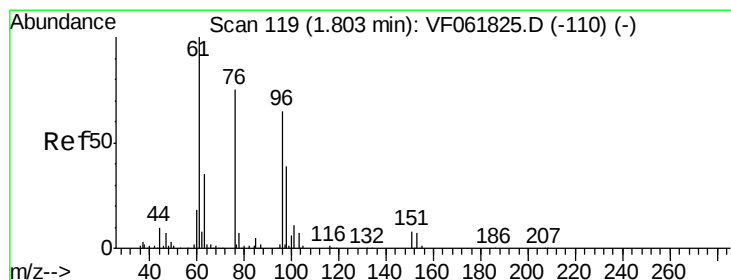
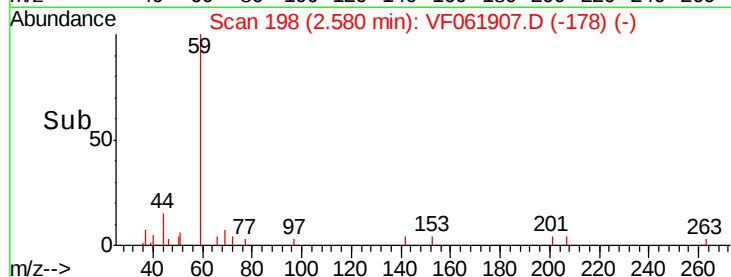
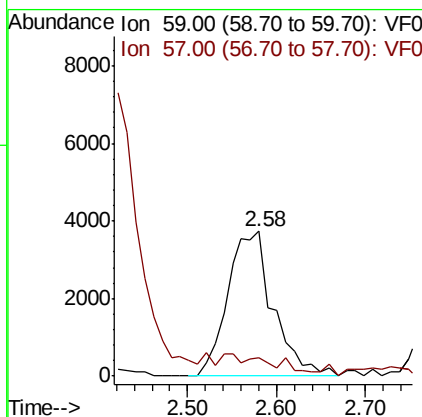
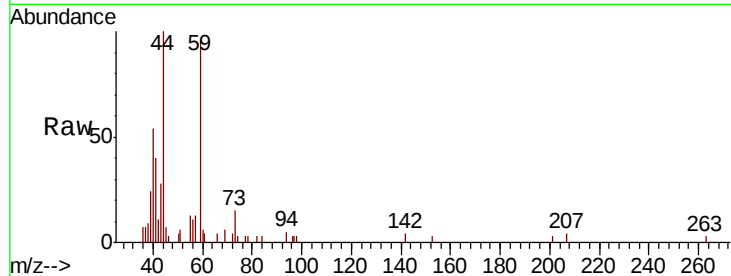
#11
Tert butyl alcohol
Concen: 111.495 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	13.2	11.8	17.6

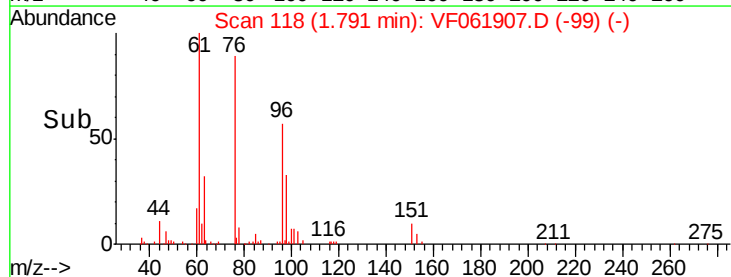
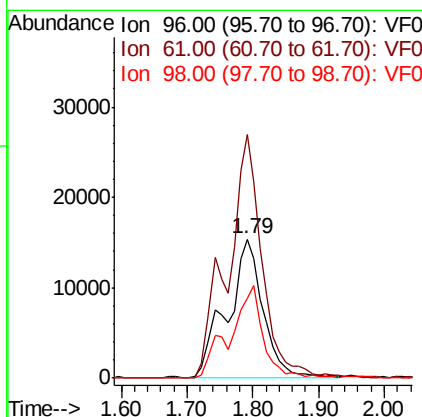
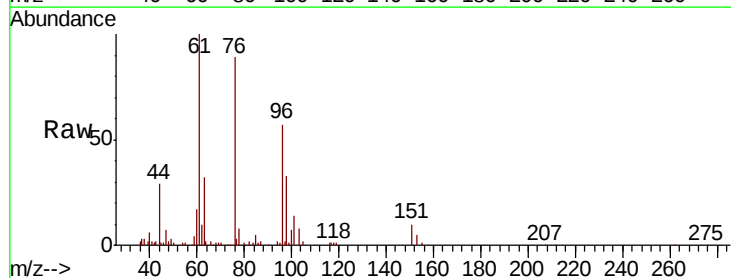
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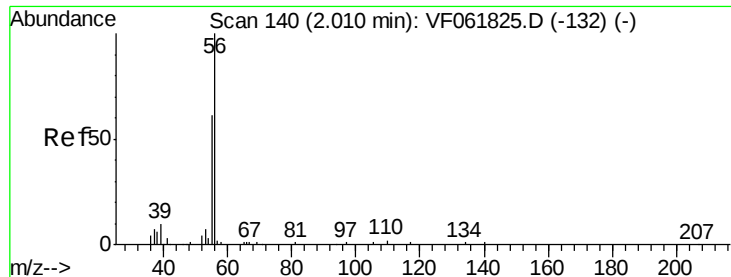
MMDadoda
3/13/2019 4:41:21 PM



#12
1,1-Dichloroethene
Concen: 23.901 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.9	122.5	183.7
98	57.7	47.1	70.7





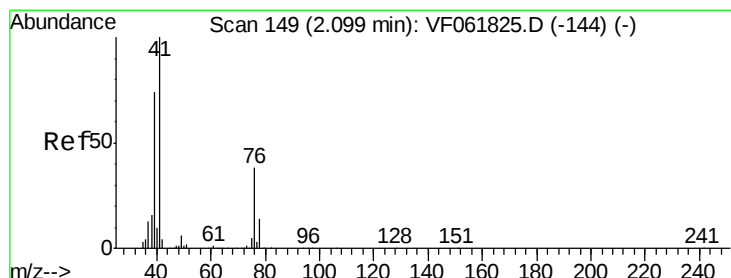
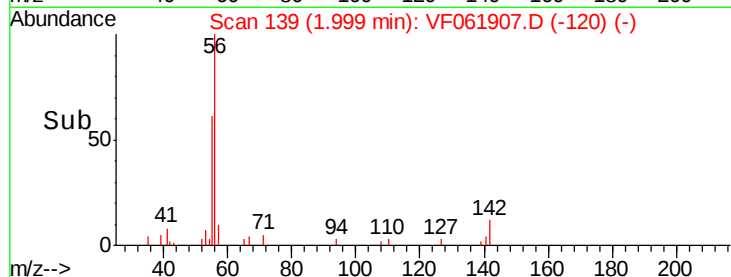
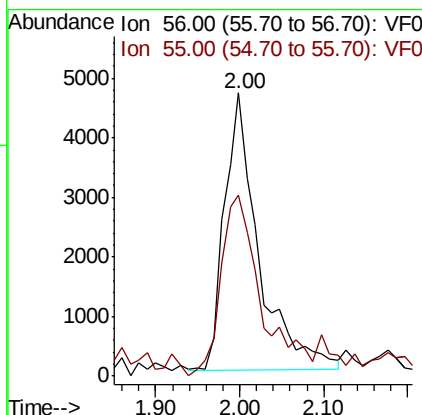
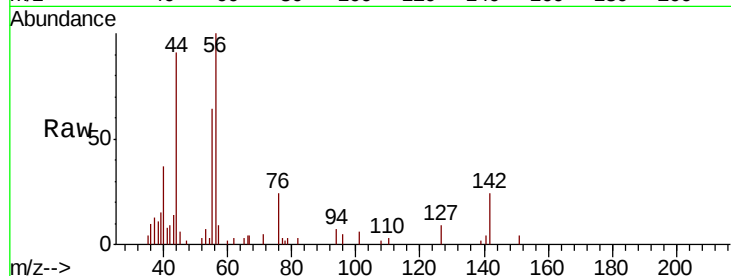
#13
Acrolein
Concen: 86.789 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion: 56 Resp: 13070
Ion Ratio Lower Upper
56 100
55 63.8 51.3 76.9

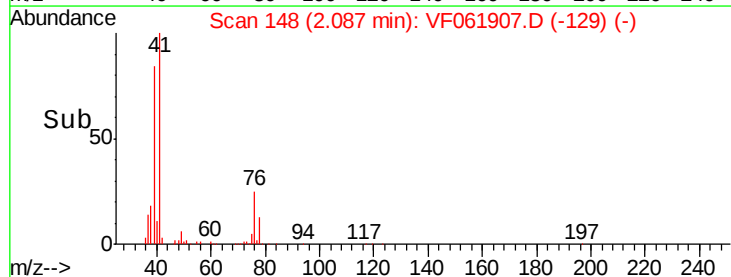
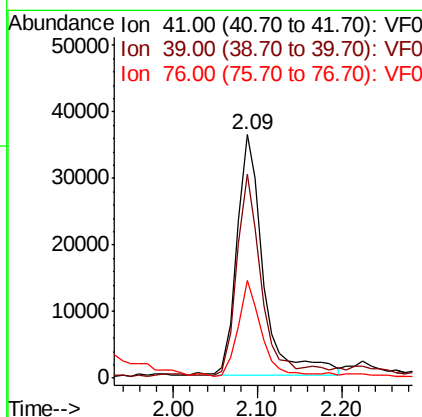
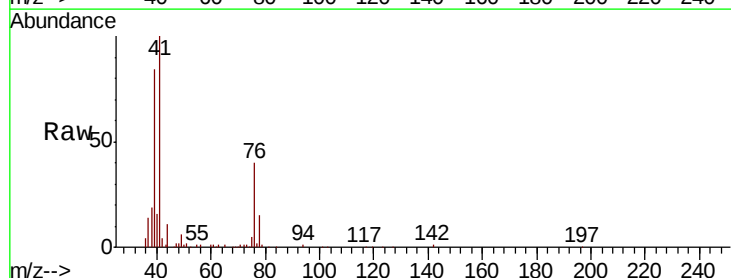
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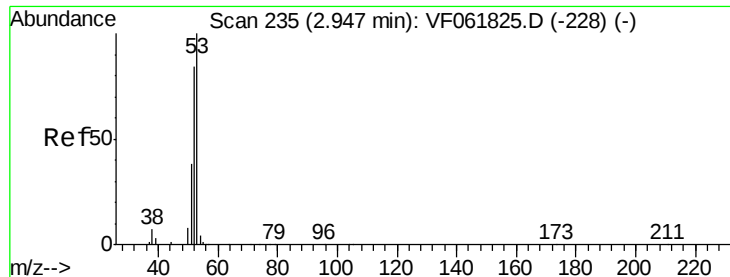
MMDadoda
3/13/2019 4:41:21 PM



#14
Allyl chloride
Concen: 29.691 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 41 Resp: 80435
Ion Ratio Lower Upper
41 100
39 83.8 59.6 89.4
76 40.1 32.3 48.5





#15

Acrylonitrile

Concen: 114.157 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

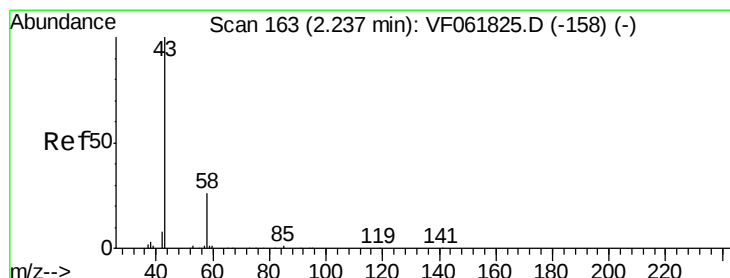
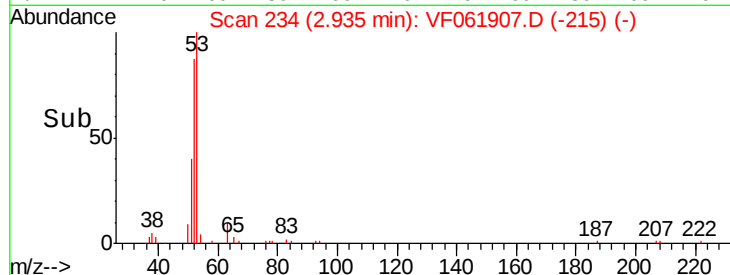
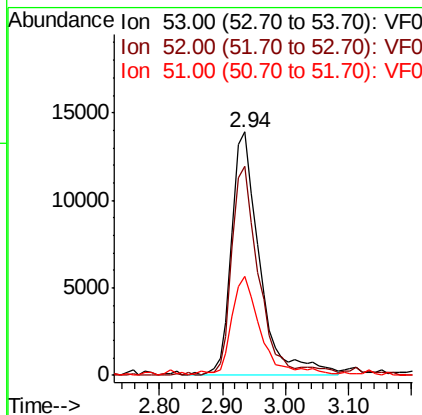
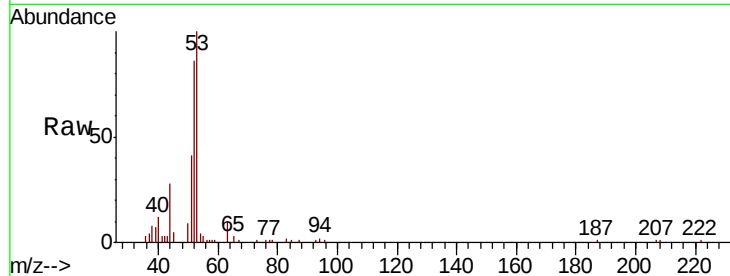
ClientSampleId :

VF0312SBSD01

Tgt Ion:	53	Resp:	43202
Ion	Ratio	Lower	Upper
53	100		
52	86.0	67.4	101.0
51	40.7	30.7	46.1

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#16

Acetone

Concen: 129.506 ug/l

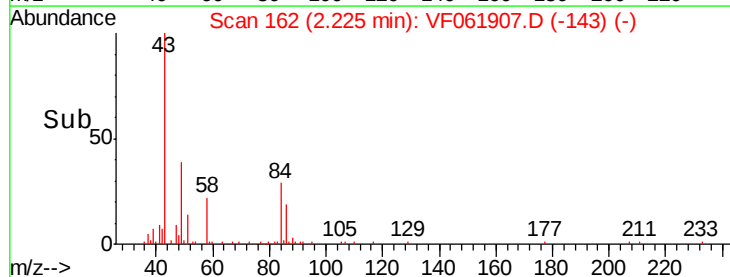
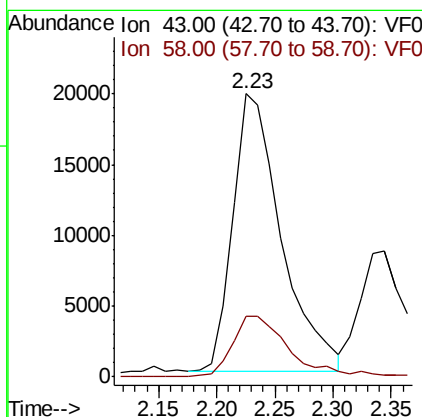
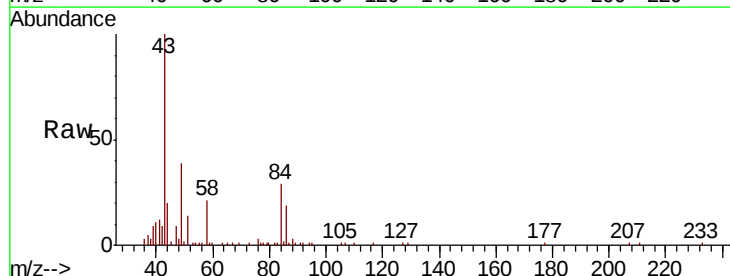
RT: 2.23 min Scan# 162

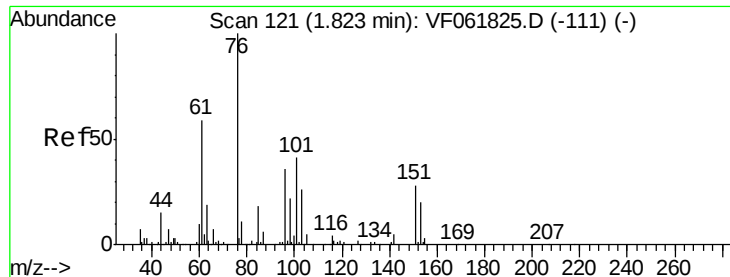
Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Tgt Ion:	43	Resp:	56803
Ion	Ratio	Lower	Upper
43	100		
58	21.4	20.3	30.5





#17

Carbon Disulfide

Concen: 23.946 ug/l m

RT: 1.80 min Scan# 119

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 76 Resp: 183298

Ion Ratio Lower Upper

76 100

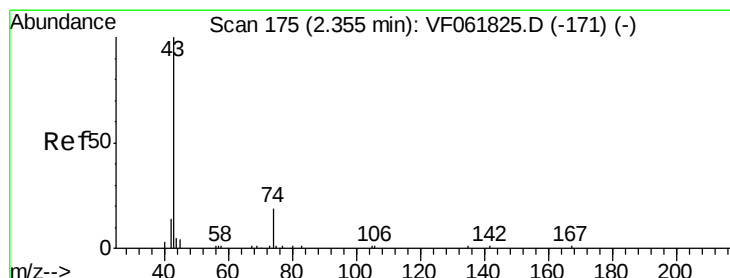
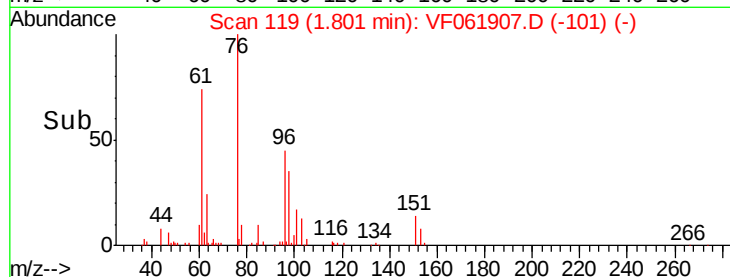
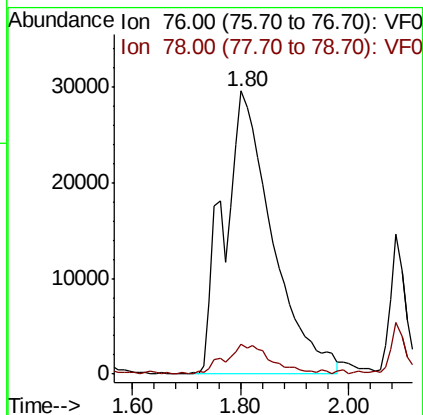
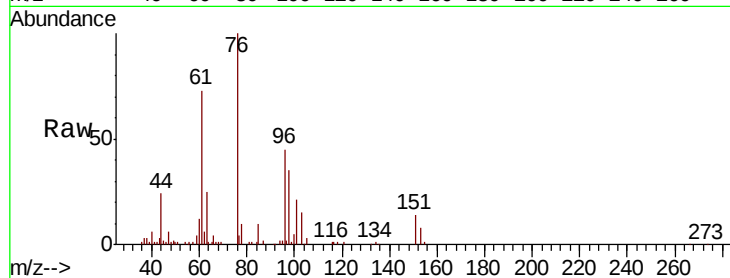
78 10.5 9.1 13.7

Manual Integrations

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#18

Methyl Acetate

Concen: 29.656 ug/l m

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061907.D

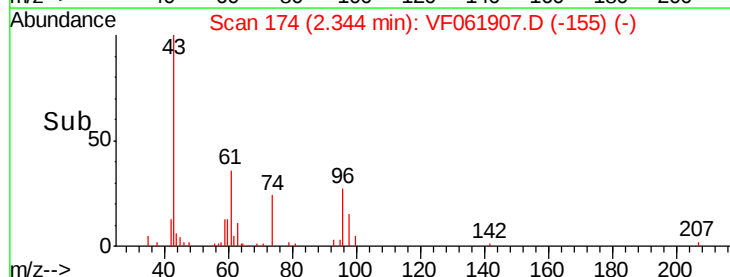
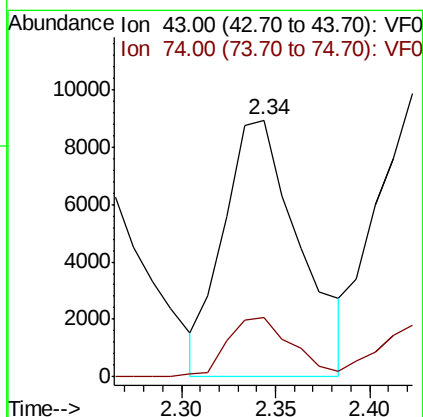
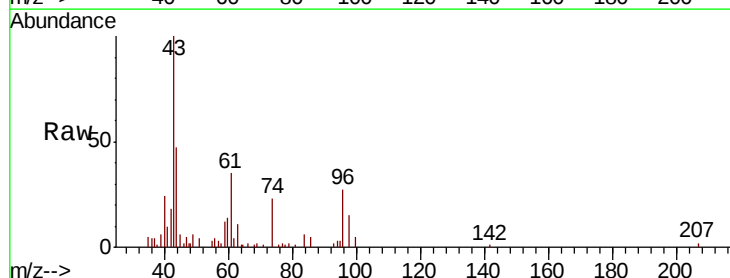
Acq: 12 Mar 2019 16:11

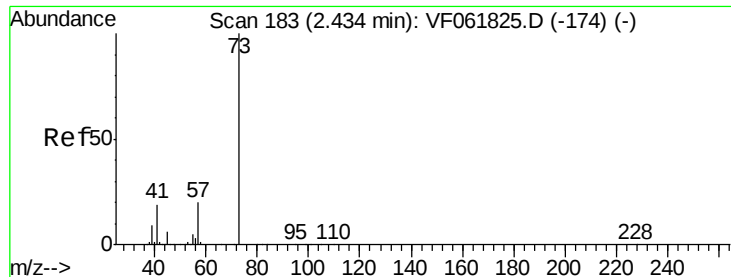
Tgt Ion: 43 Resp: 25154

Ion Ratio Lower Upper

43 100

74 23.3 13.2 19.8#





#19

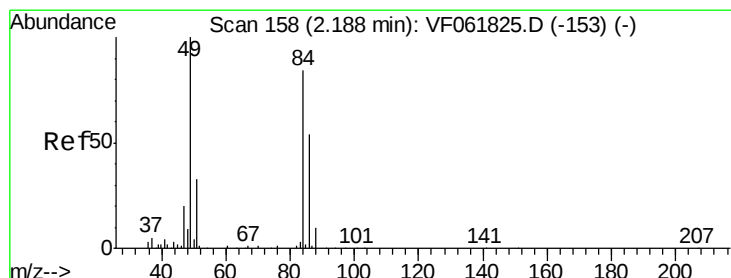
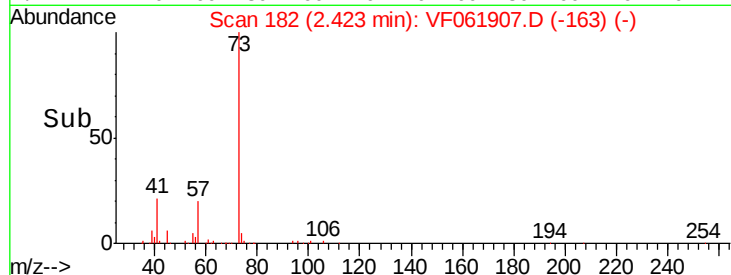
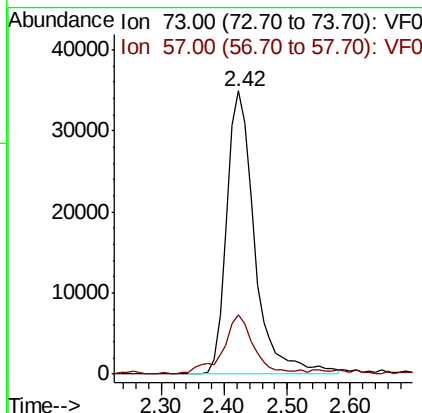
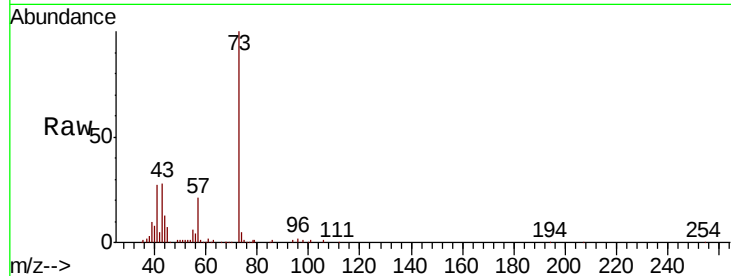
Methyl tert-butyl Ether
Concen: 25.785 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion: 73 Resp: 107263
Ion Ratio Lower Upper
73 100
57 20.9 16.1 24.1

Manual Integrations
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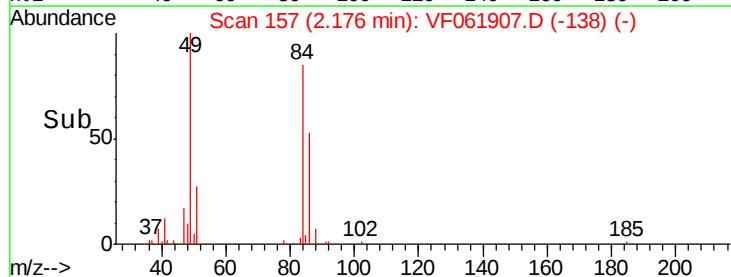
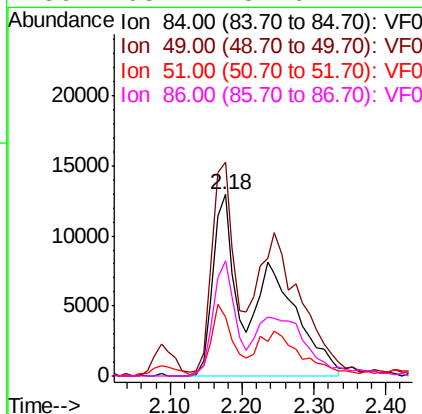
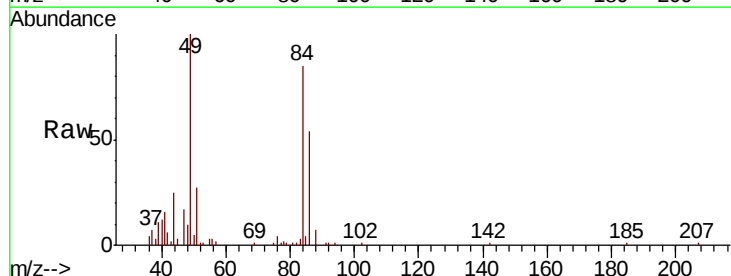
MMDadoda
3/13/2019 4:41:21 PM

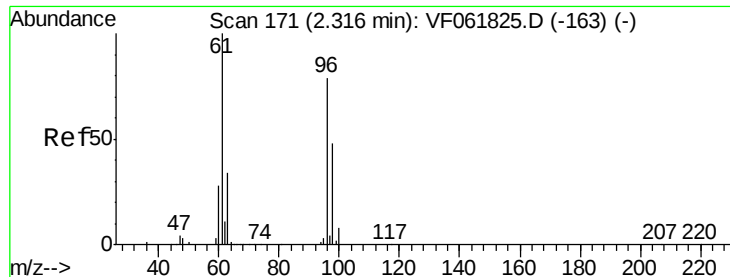


#20

Methylene Chloride
Concen: 21.026 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 84 Resp: 58661
Ion Ratio Lower Upper
84 100
49 117.7 96.8 145.2
51 32.2 31.8 47.6
86 63.4 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 26.575 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

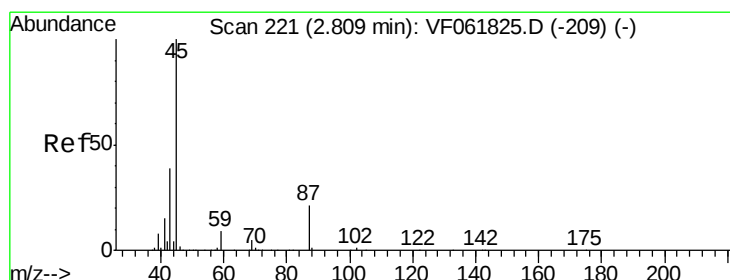
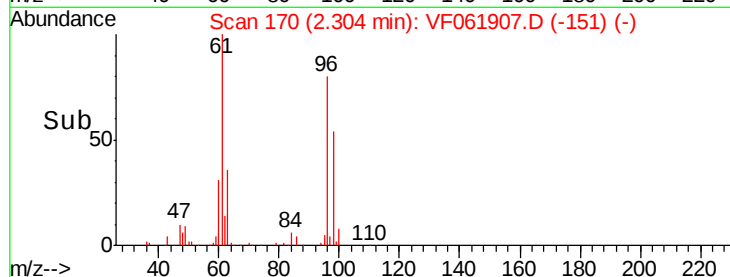
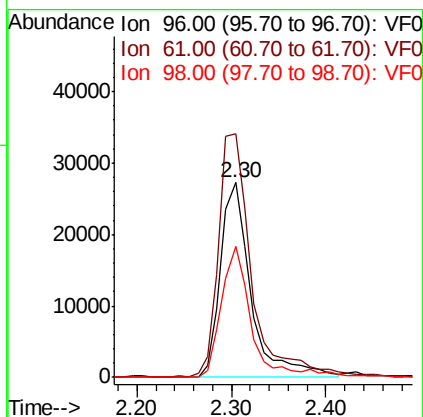
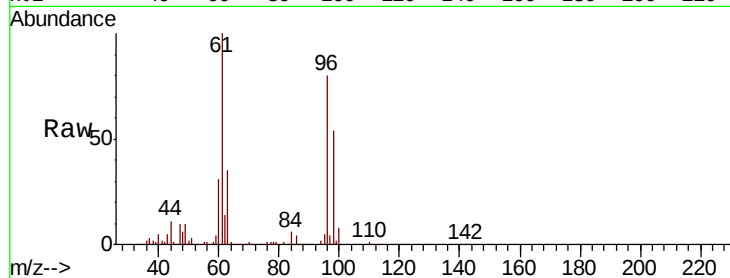
ClientSampleId :

VF0312SBSD01

Tgt Ion:	96	Resp:	61504
Ion	Ratio	Lower	Upper
96	100		
61	125.1	101.0	151.6
98	67.3	48.8	73.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 25.076 ug/l

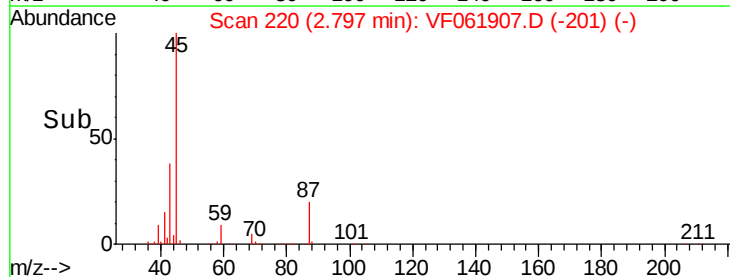
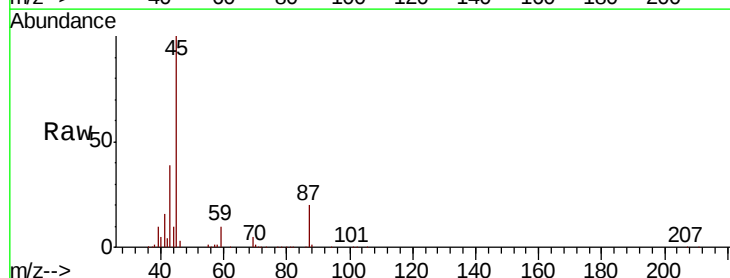
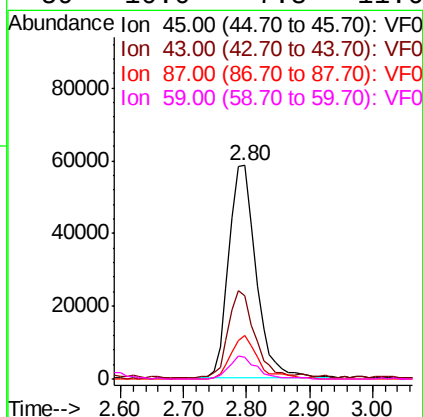
RT: 2.80 min Scan# 220

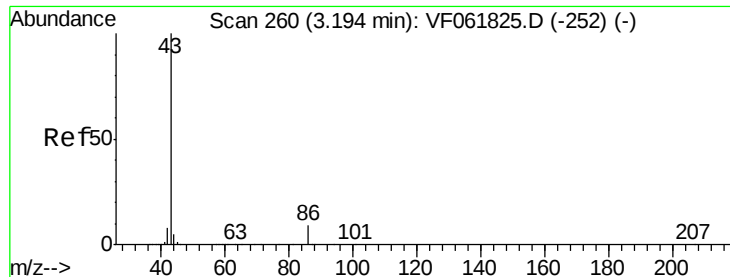
Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Tgt Ion:	45	Resp:	176712
Ion	Ratio	Lower	Upper
45	100		
43	39.0	31.8	47.8
87	20.4	17.1	25.7
59	10.0	7.8	11.6





#23

Vinyl Acetate

Concen: 117.544 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 43 Resp: 370042

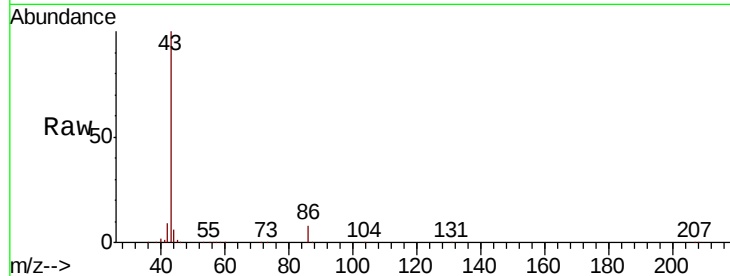
Ion Ratio Lower Upper

43 100

86 8.1 7.0 10.4

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

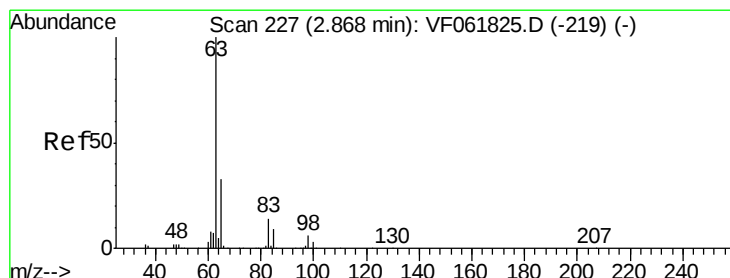
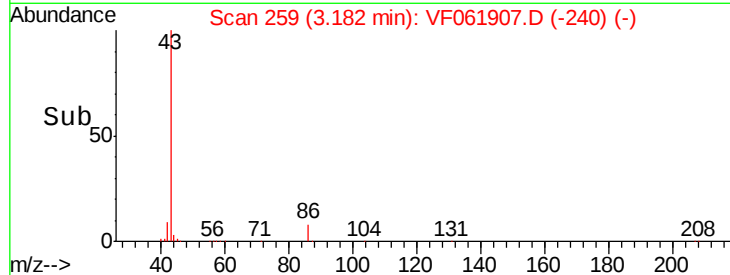
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 24.949 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

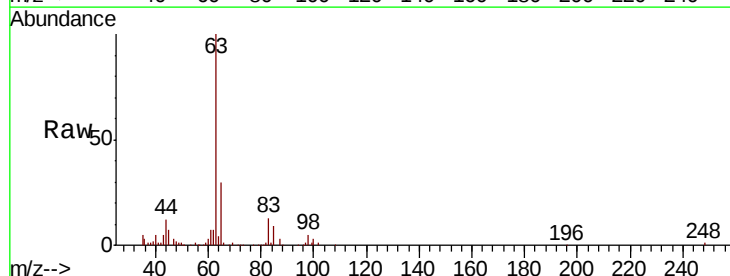
Tgt Ion: 63 Resp: 105086

Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.6

100 3.0 1.8 5.3



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

50000

40000

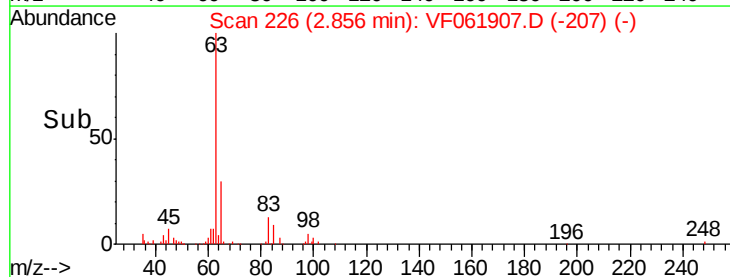
30000

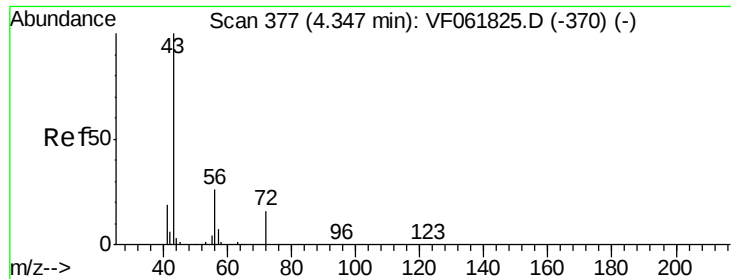
20000

10000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 111.325 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 43 Resp: 99322

Ion Ratio Lower Upper

43 100

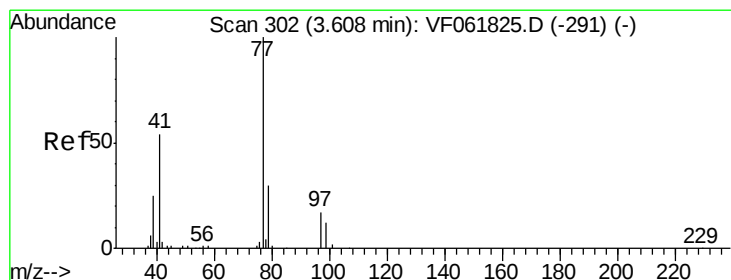
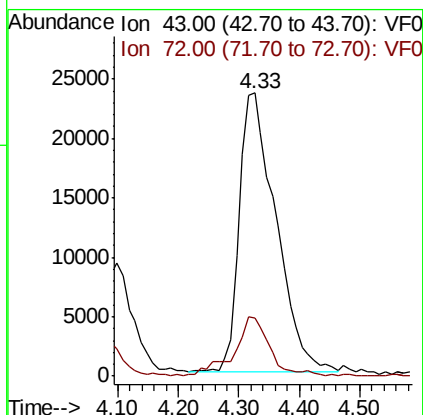
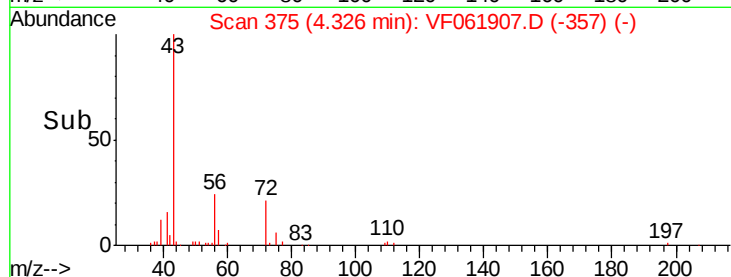
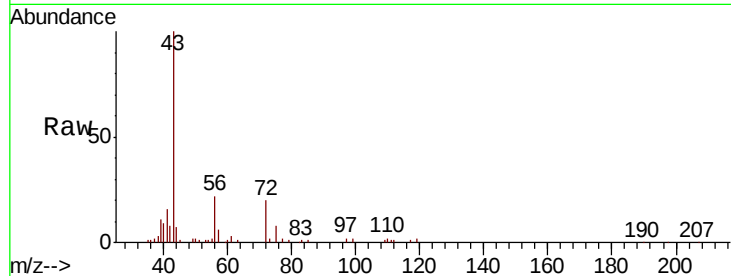
72 20.4 16.2 24.4

Manual Integrations

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MMDadoda

3/13/2019 4:41:21 PM



#26

2,2-Dichloropropane

Concen: 24.743 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061907.D

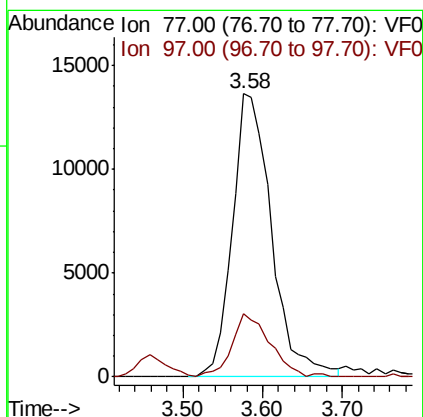
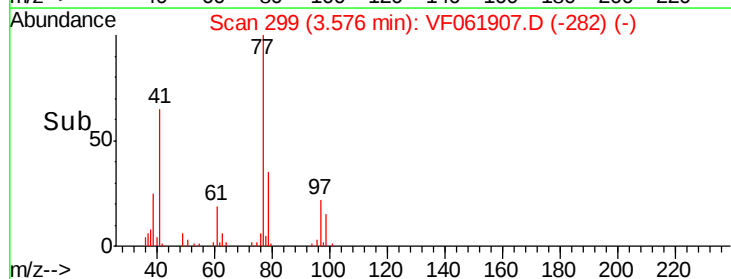
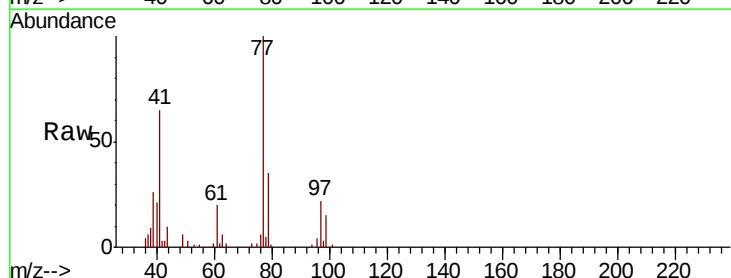
Acq: 12 Mar 2019 16:11

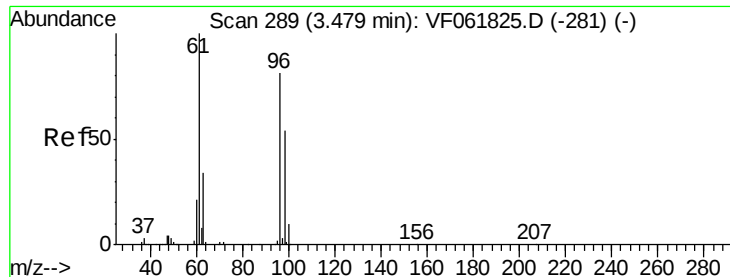
Tgt Ion: 77 Resp: 46525

Ion Ratio Lower Upper

77 100

97 22.3 10.4 31.4





#27

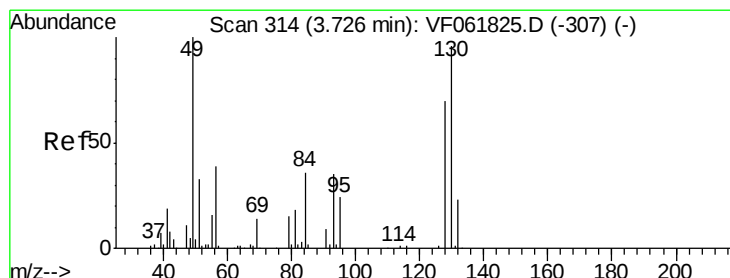
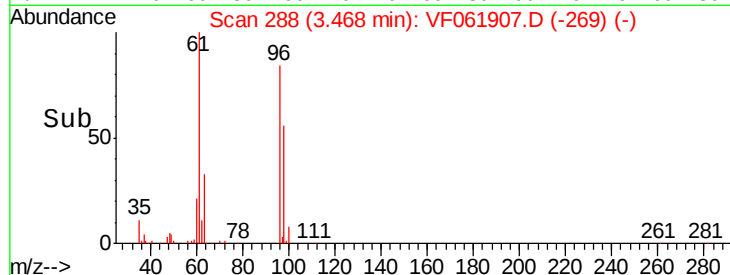
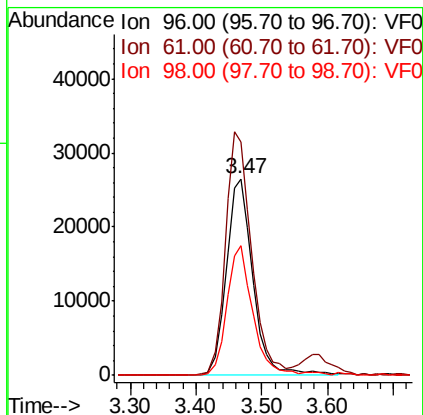
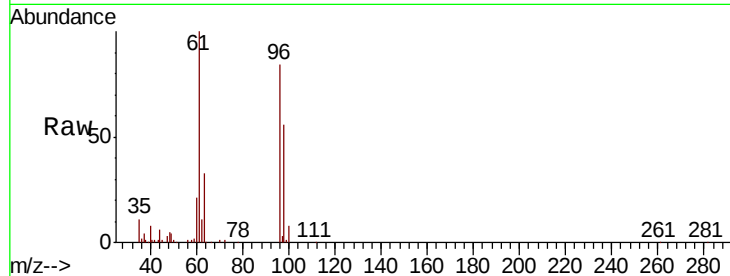
cis-1,2-Dichloroethene
Concen: 23.370 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.7	0.0	245.8
98	66.2	0.0	132.6

Manual Integrations
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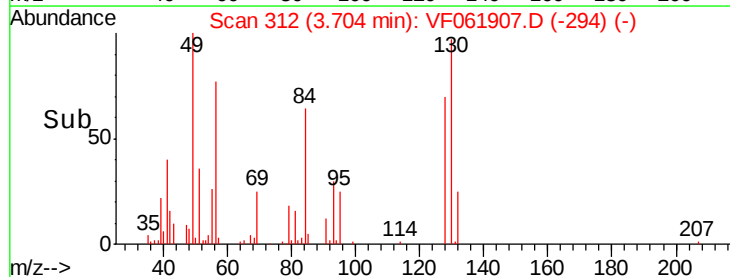
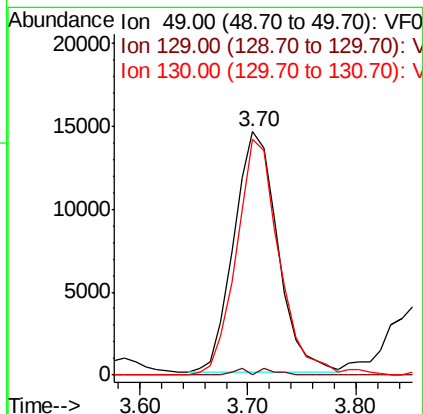
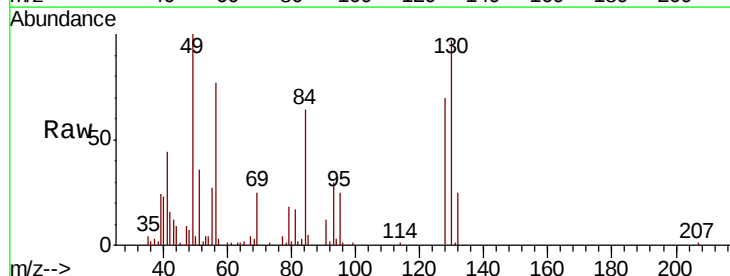
MMDadoda
3/13/2019 4:41:21 PM

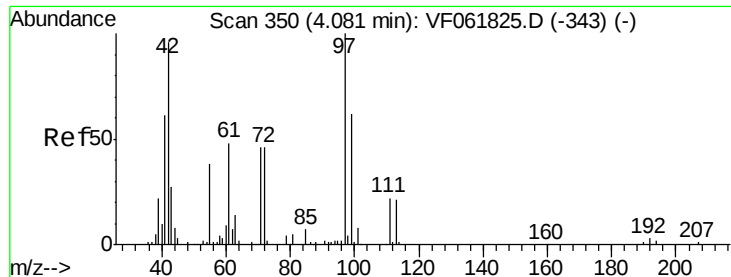


#28

Bromochloromethane
Concen: 22.416 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	96.8	76.9	115.3





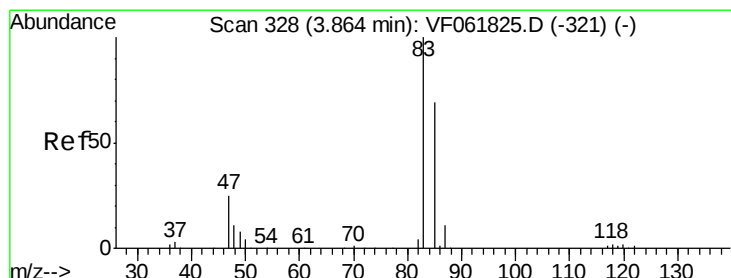
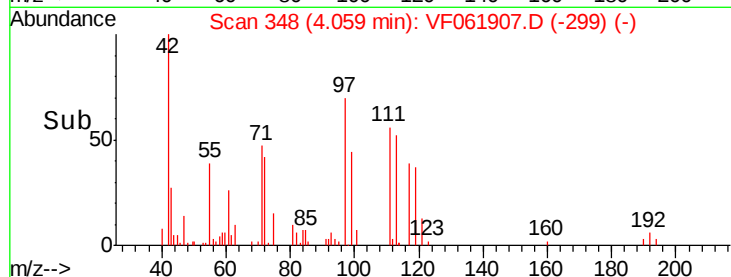
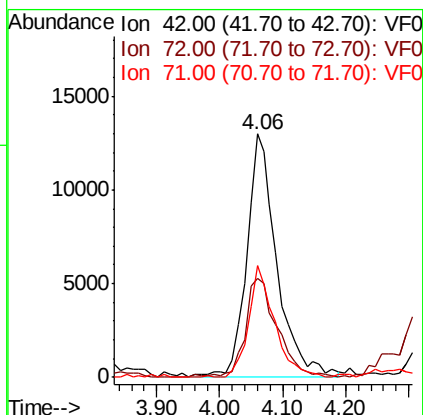
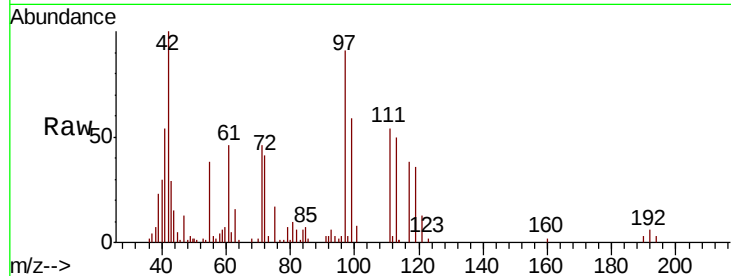
#29
Tetrahydrofuran
Concen: 112.319 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	43217		
72	43.1		34.4	51.6
71	39.4		34.6	52.0

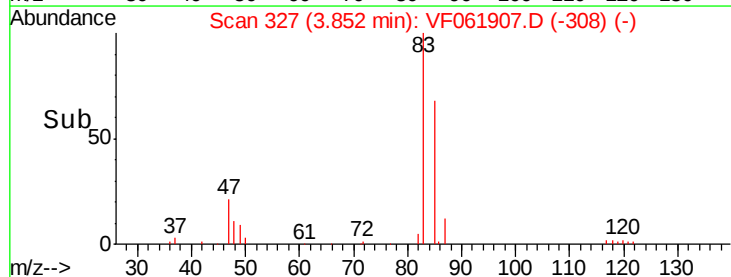
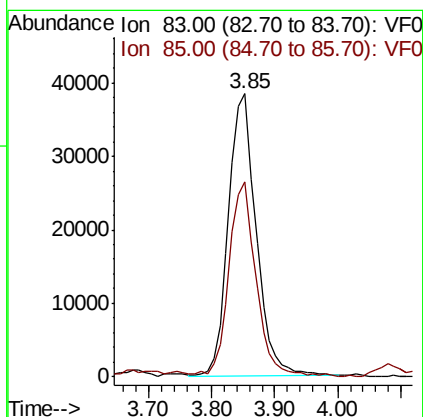
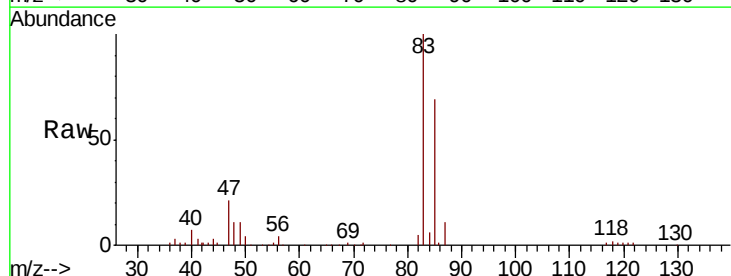
Manual Integrations
APPROVED

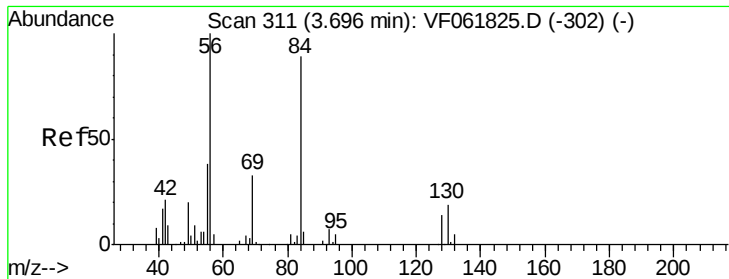
MMDadoda
3/13/2019 4:41:21 PM



#30
Chloroform
Concen: 24.316 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	116987		
85	68.9		55.3	82.9





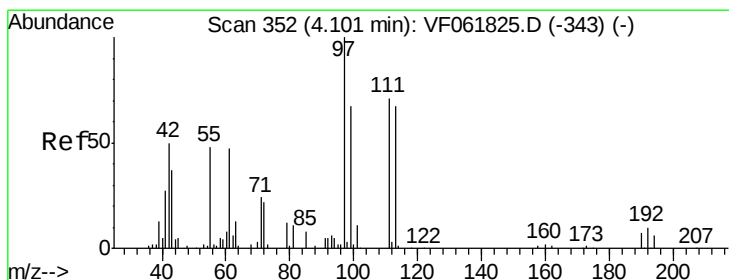
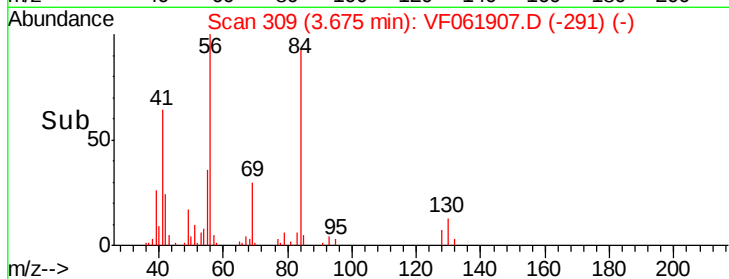
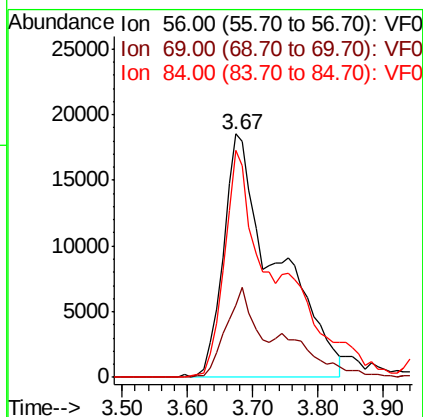
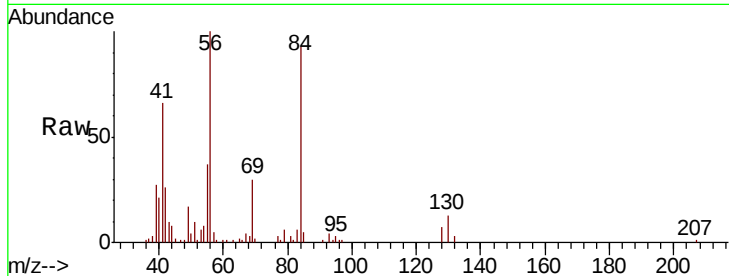
#31
Cyclohexane
Concen: 23.420 ug/l m
RT: 3.67 min Scan# 309
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.8	26.0	39.0
84	93.3	71.0	106.6

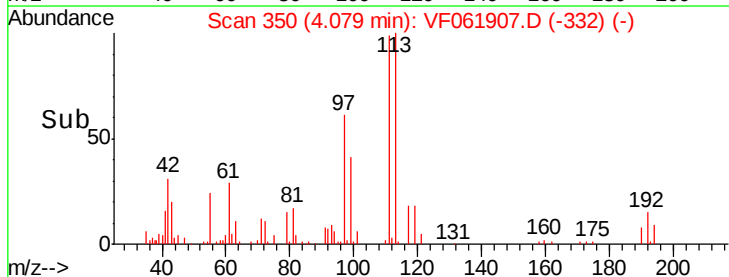
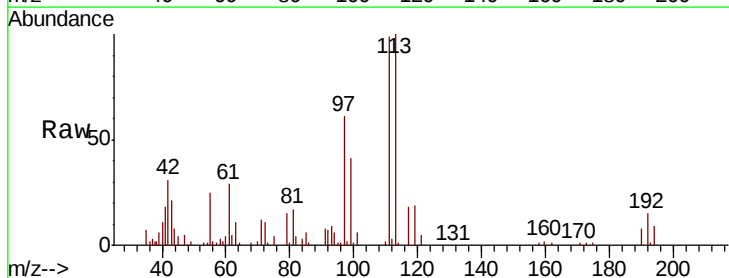
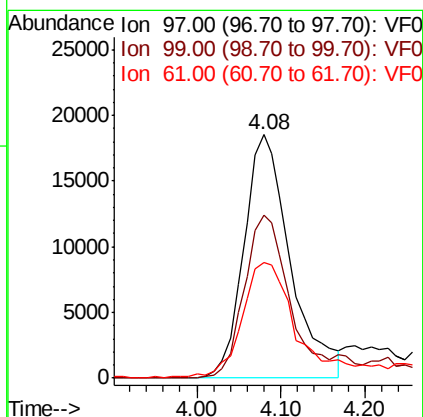
Manual Integrations
APPROVED

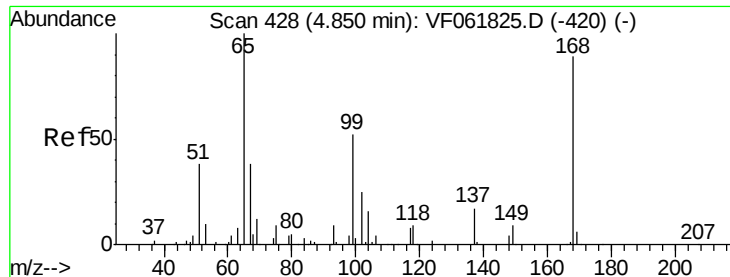
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 24.155 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.2	53.8	80.8
61	47.2	37.9	56.9





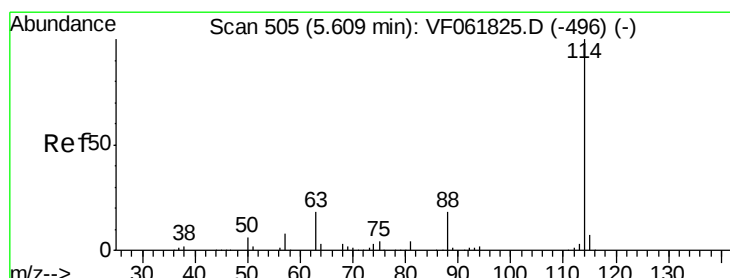
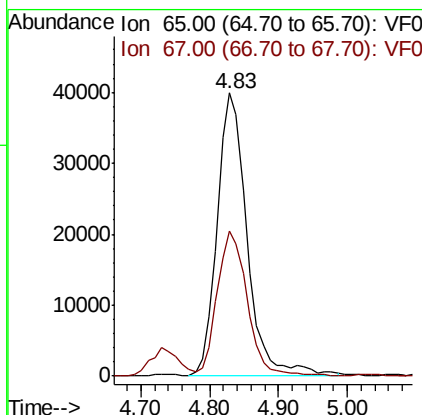
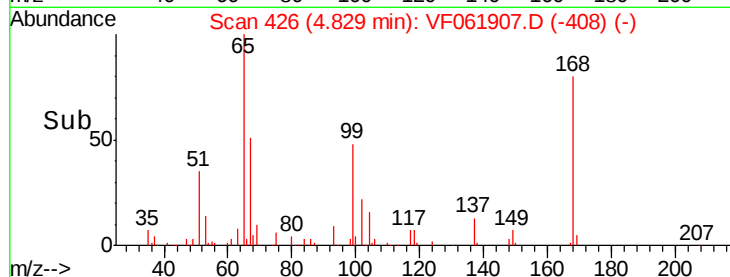
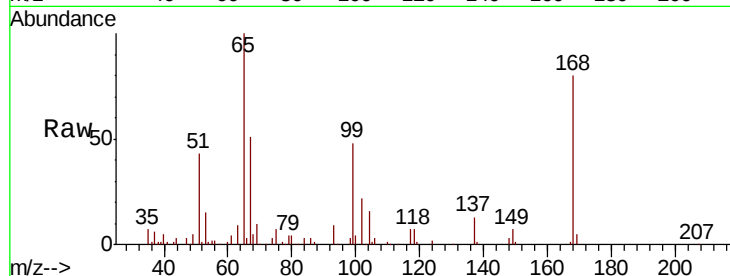
#33
 1,2-Dichloroethane-d4
 Concen: 57.494 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion: 65 Resp: 120387
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 108.6

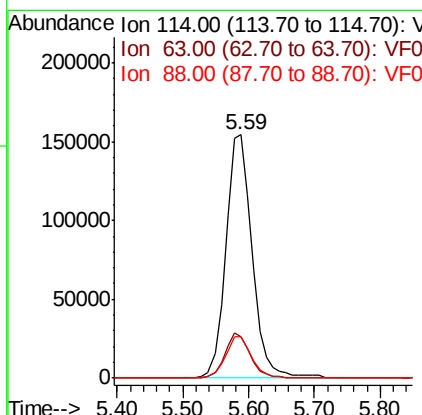
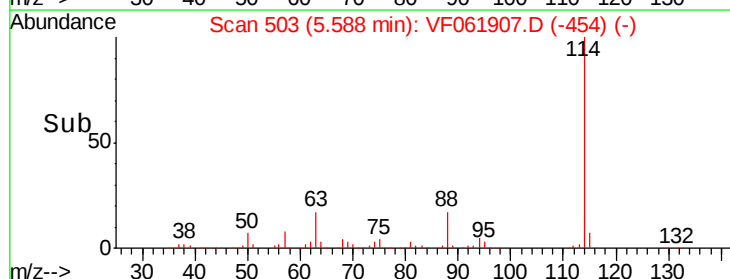
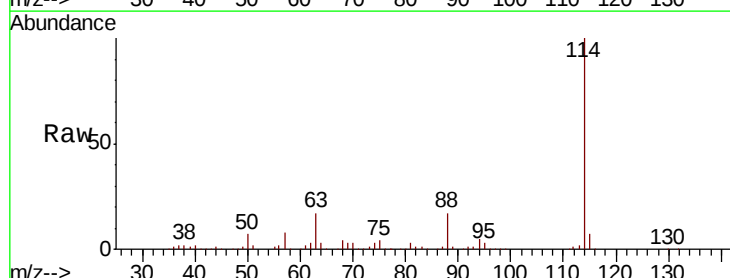
Manual Integrations
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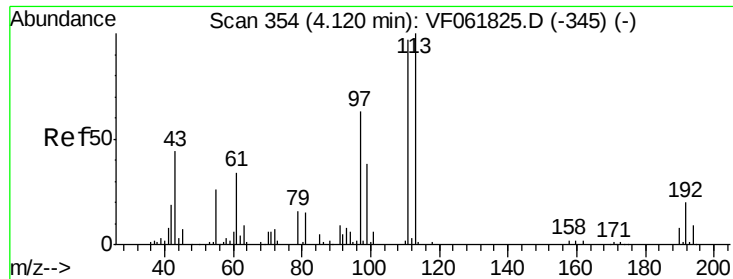
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion: 114 Resp: 431338
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 35.6
 88 17.1 0.0 35.6





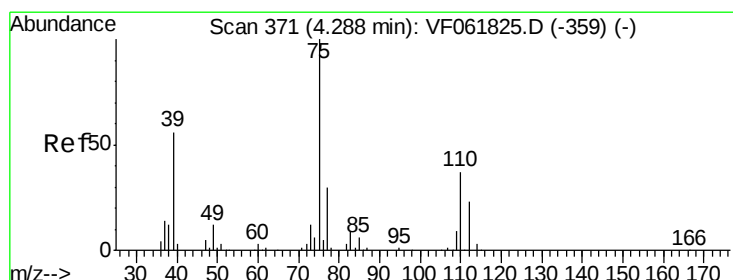
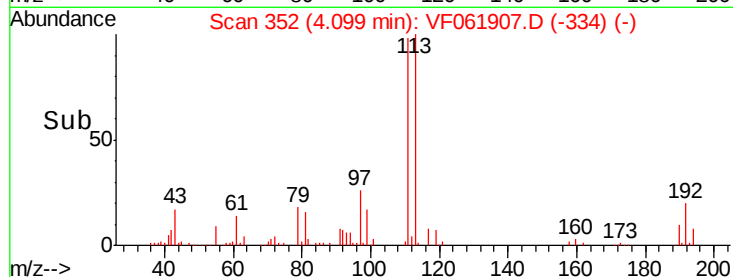
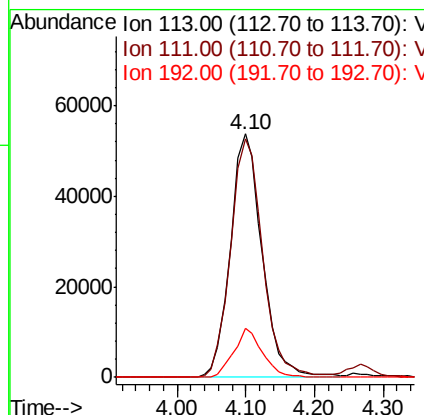
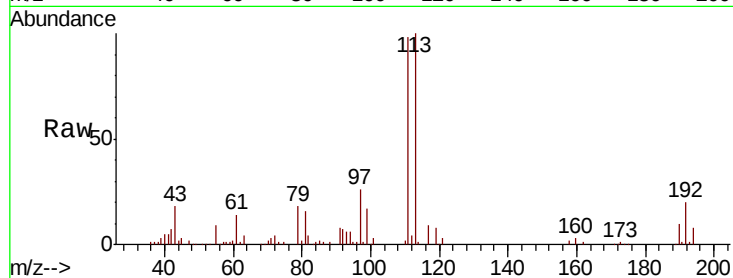
#35
 Dibromofluoromethane
 Concen: 56.958 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	171455		
111	98.1	77.6	116.4	
192	20.5	15.9	23.9	

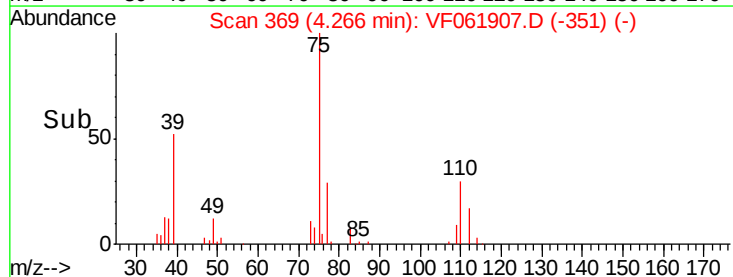
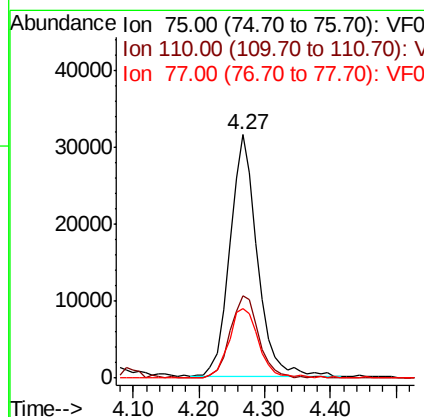
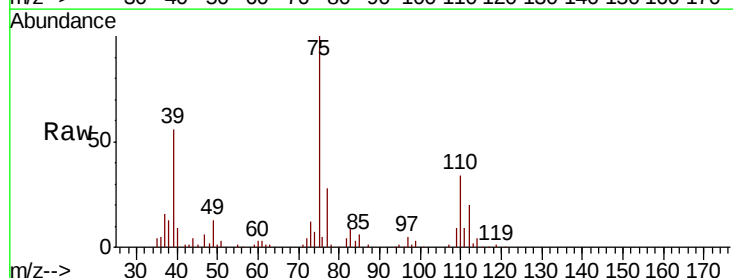
Manual Integrations
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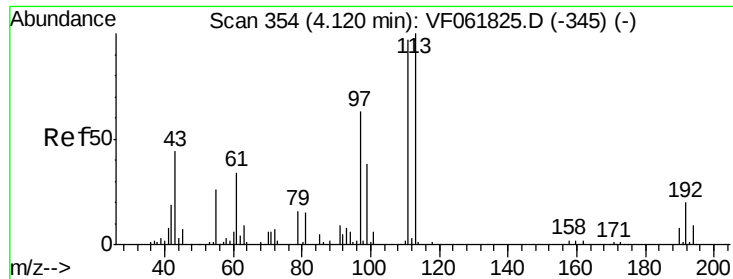
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#36
 1,1-Dichloropropene
 Concen: 22.586 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	92027		
110	33.9	18.6	55.6	
77	28.4	24.2	36.2	





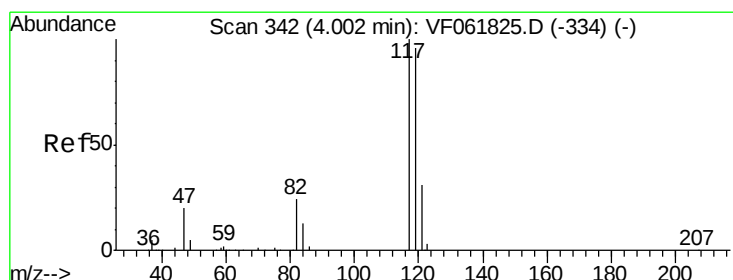
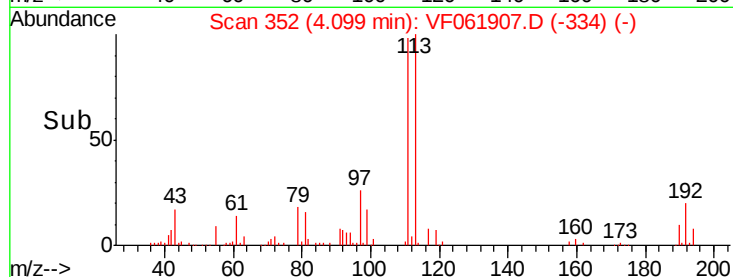
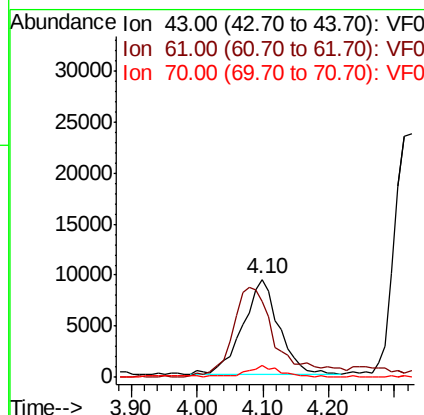
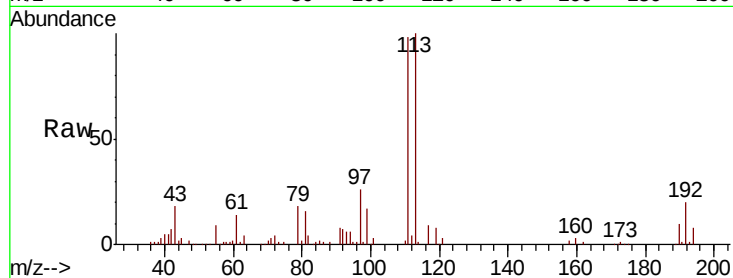
#37
Ethyl Acetate
Concen: 21.525 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	77.1	60.7	91.1
70	11.6	10.6	15.8

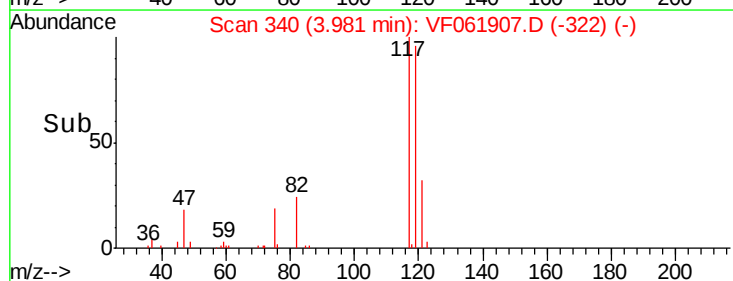
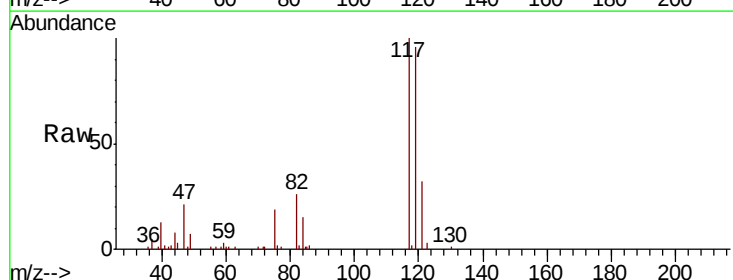
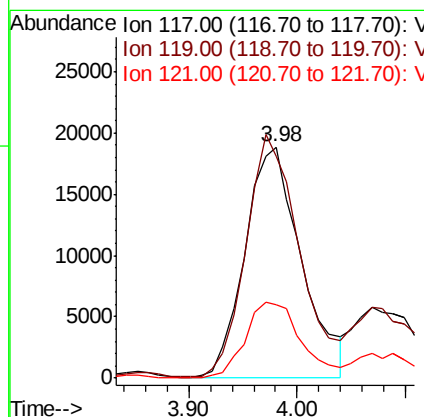
Manual Integrations
APPROVED

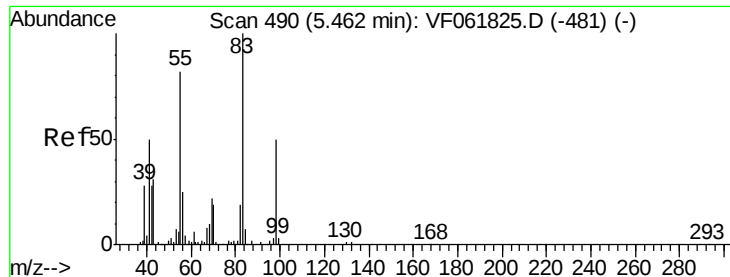
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#38
Carbon Tetrachloride
Concen: 23.868 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.6	114.8
121	32.0	24.4	36.6





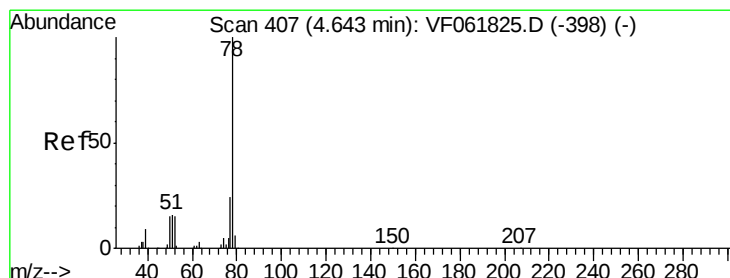
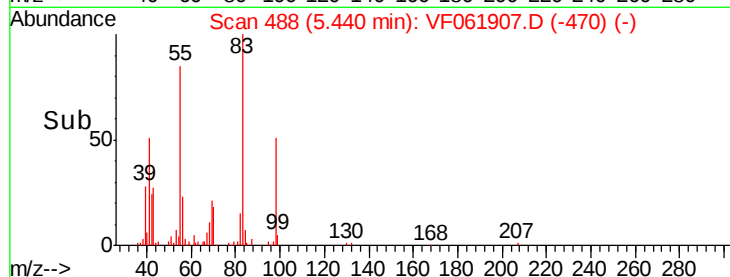
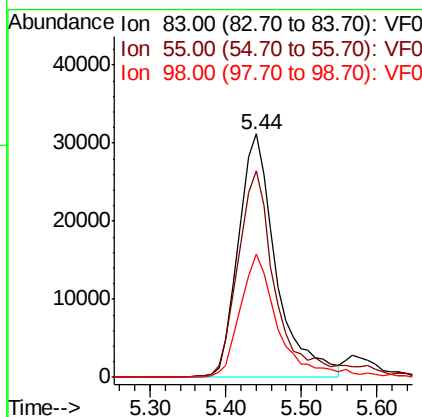
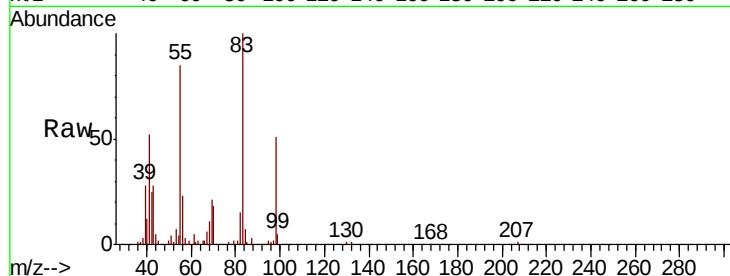
#39
Methylcyclohexane
Concen: 22.444 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
55	84.9	66.0	99.0
98	50.5	39.8	59.6

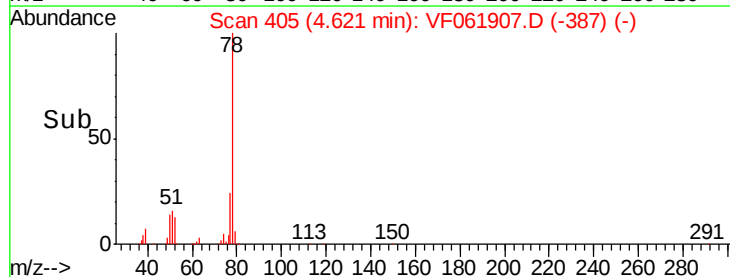
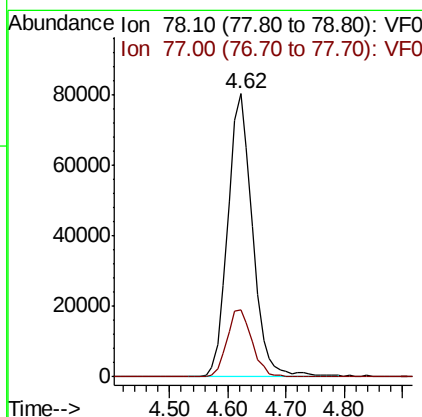
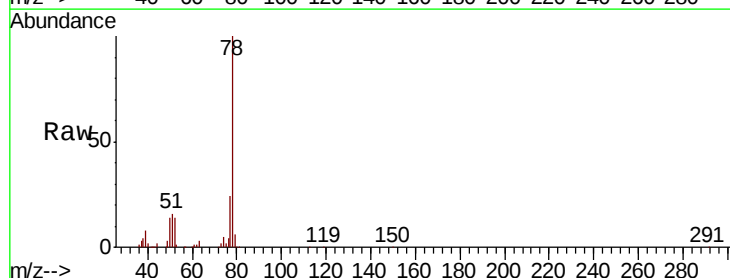
Manual Integrations
APPROVED

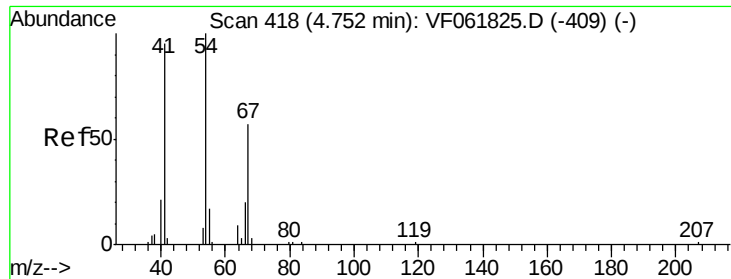
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#40
Benzene
Concen: 22.323 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp Lower	Resp Upper
78	100		
77	23.7	19.5	29.3





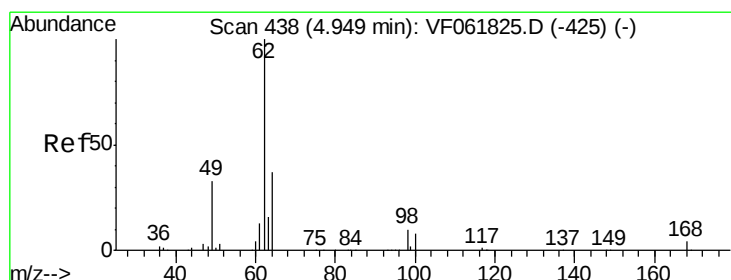
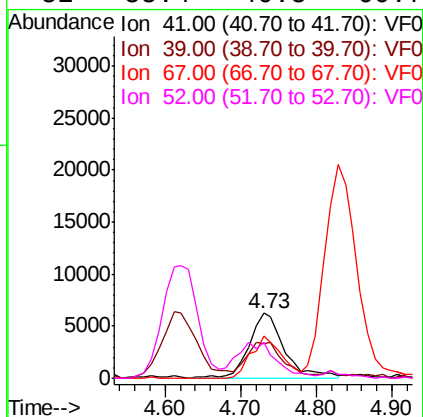
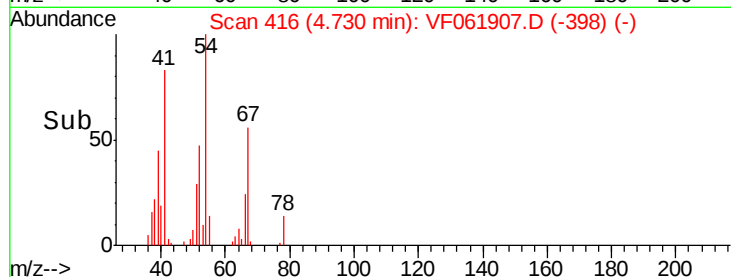
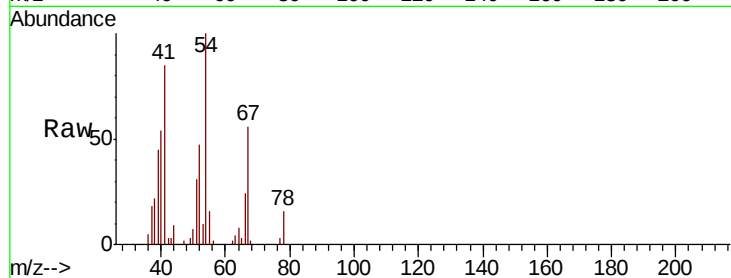
#41
Methacrylonitrile
Concen: 21.791 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.5	43.0	64.6	
67	65.7	47.8	71.8	
52	55.4	40.5	60.7	

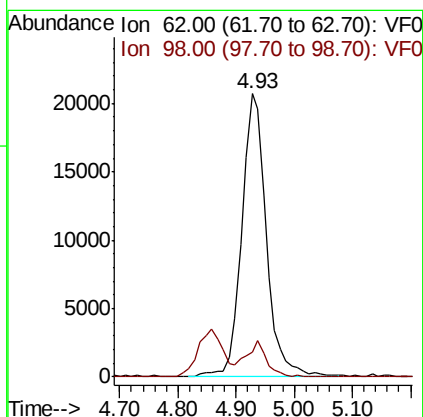
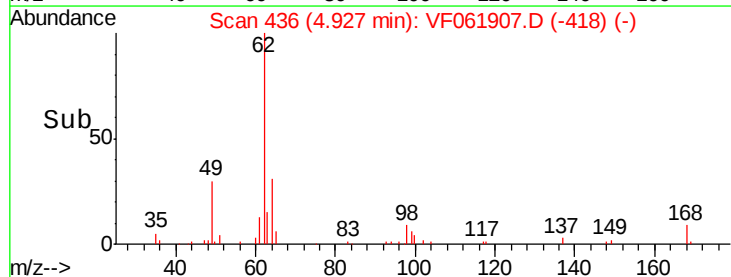
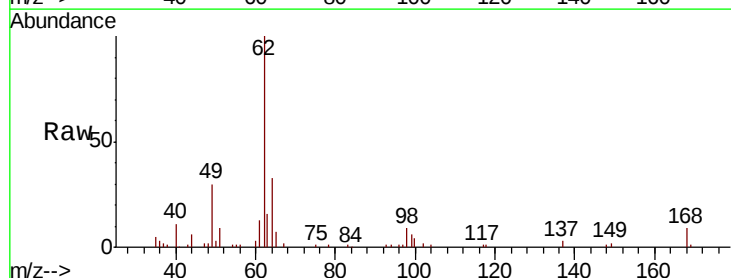
Manual Integrations
APPROVED

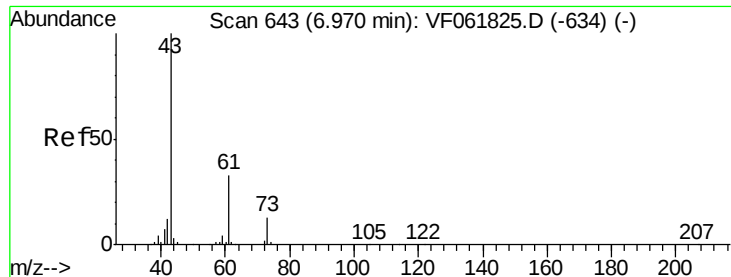
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#42
1,2-Dichloroethane
Concen: 23.014 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.9	0.0	21.0	





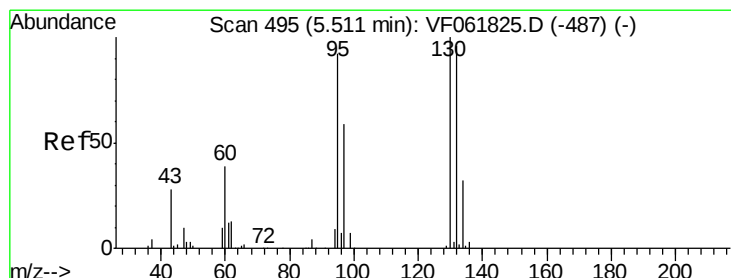
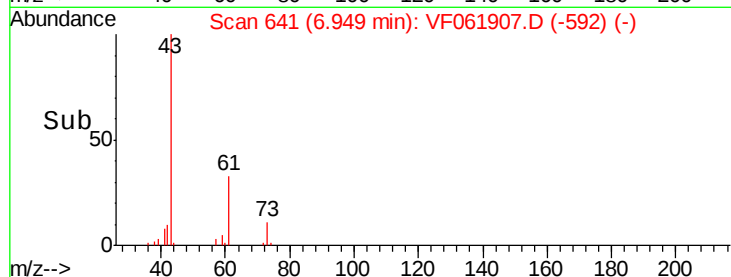
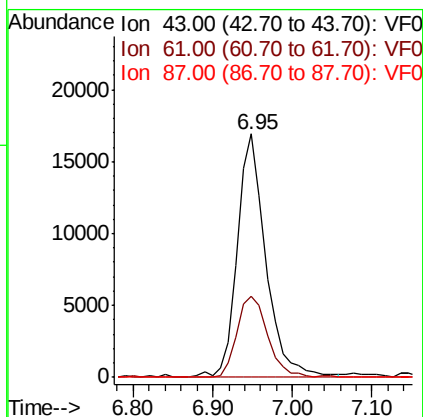
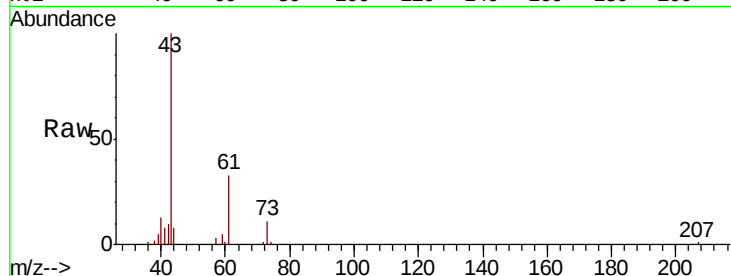
#43
Isopropyl Acetate
Concen: 20.024 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	33.5	26.1	39.1
87	0.0	0.0	0.0

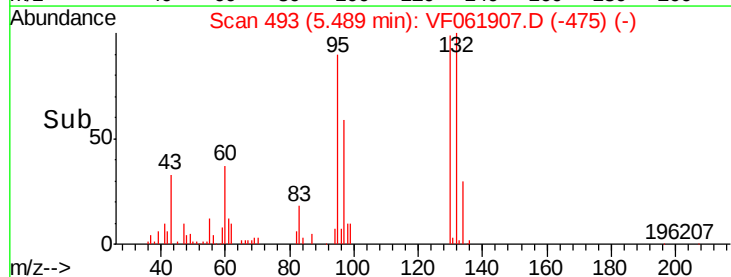
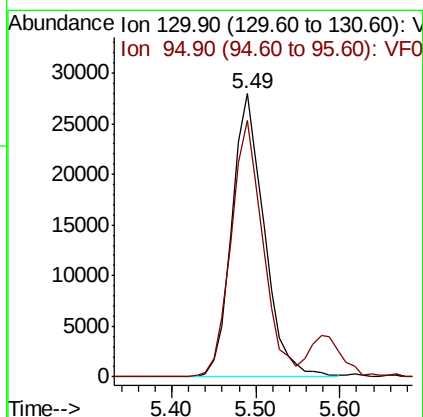
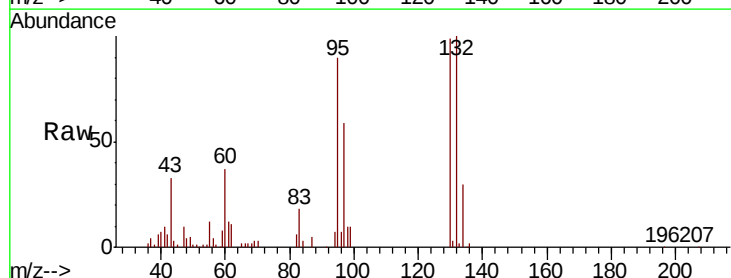
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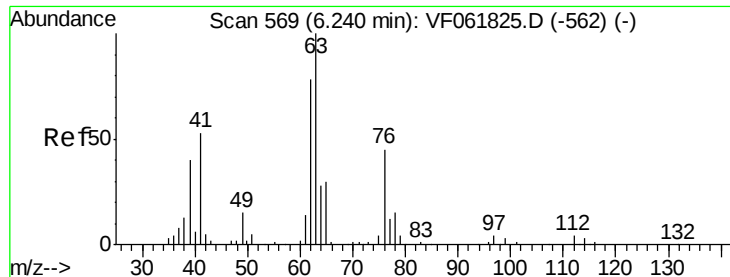
MMDadoda
3/13/2019 4:41:21 PM



#44
Trichloroethene
Concen: 22.643 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.8	0.0	184.0





#45

1,2-Dichloropropane

Concen: 22.245 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 63 Resp: 56337

Ion Ratio Lower Upper

63 100

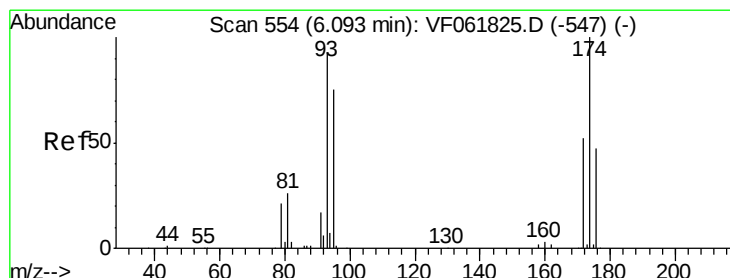
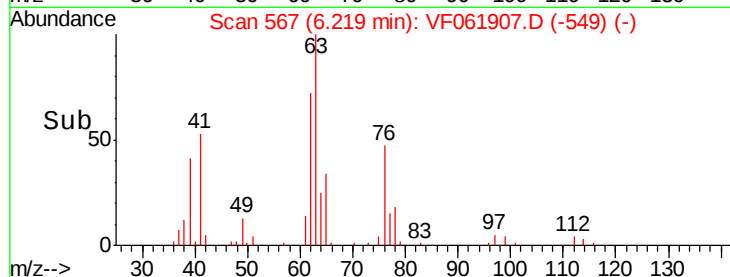
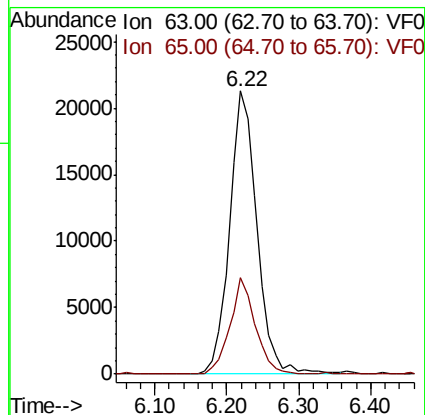
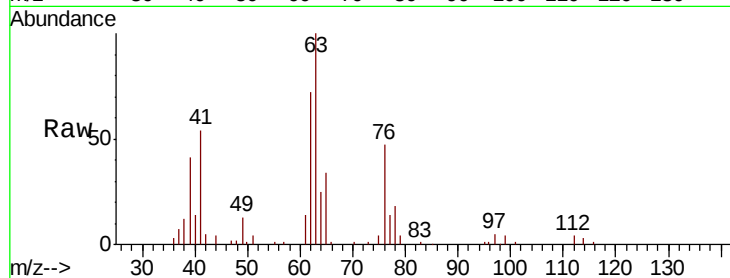
65 34.0 24.0 36.0

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#46

Dibromomethane

Concen: 22.130 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

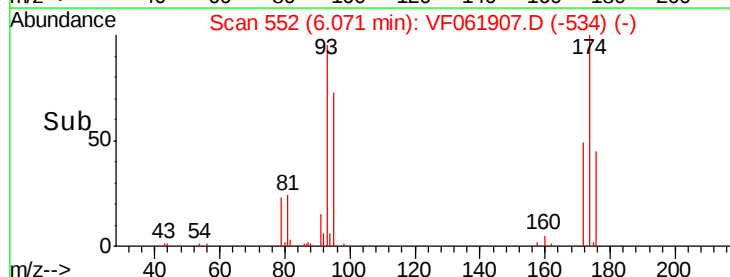
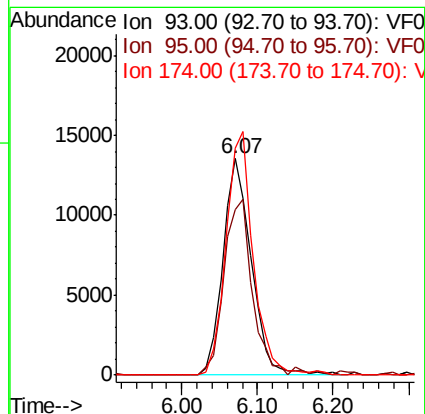
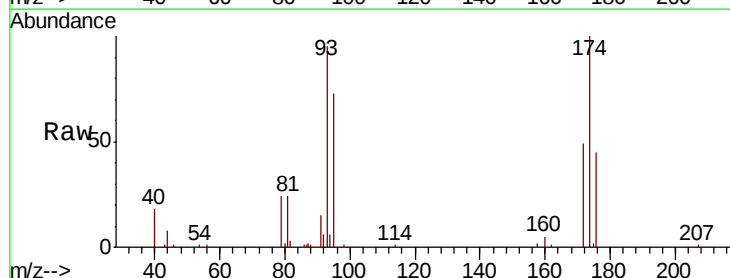
Tgt Ion: 93 Resp: 35273

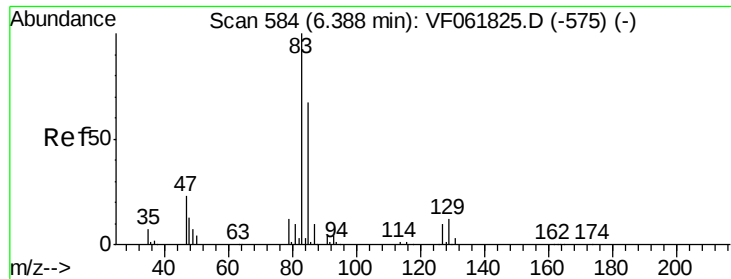
Ion Ratio Lower Upper

93 100

95 76.8 64.4 96.6

174 104.9 85.8 128.6





#47

Bromodichloromethane

Concen: 23.310 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

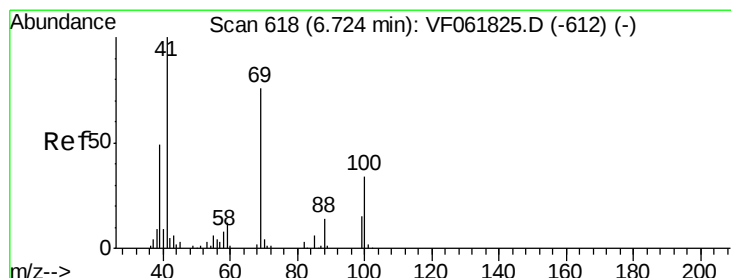
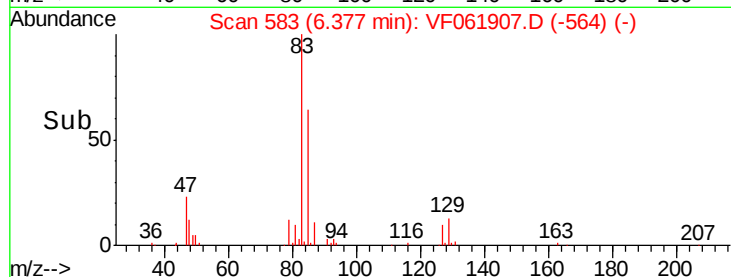
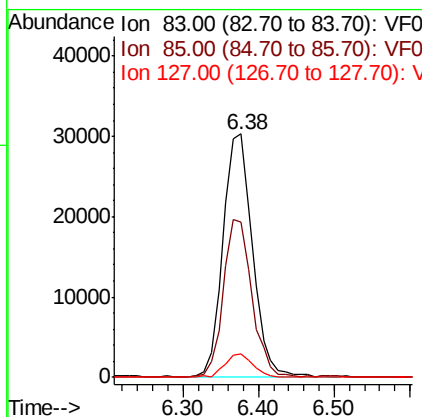
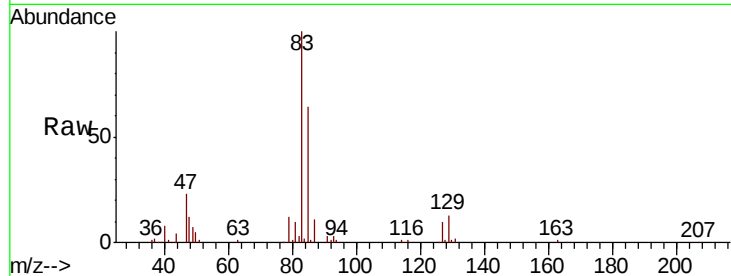
ClientSampleId :

VF0312SBSD01

Tgt Ion:	83	Resp:	82081
Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.6	80.4
127	9.6	8.1	12.1

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#48

Methyl methacrylate

Concen: 19.894 ug/l

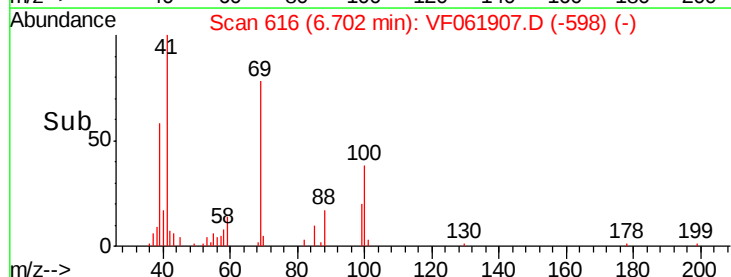
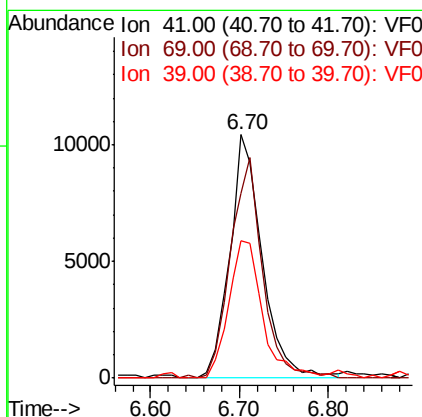
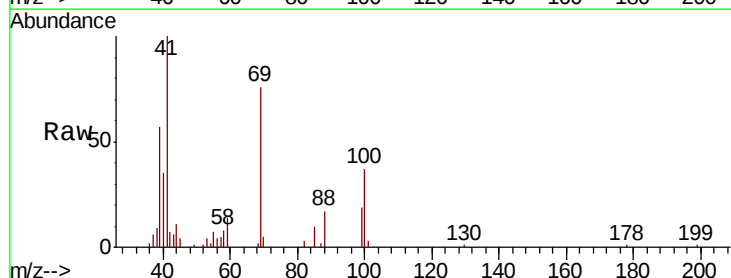
RT: 6.70 min Scan# 616

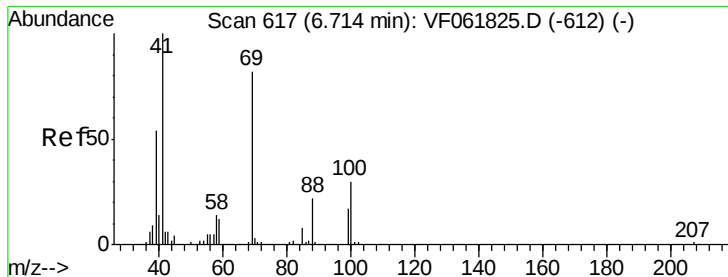
Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Tgt Ion:	41	Resp:	26542
Ion	Ratio	Lower	Upper
41	100		
69	76.1	60.4	90.6
39	56.6	39.7	59.5





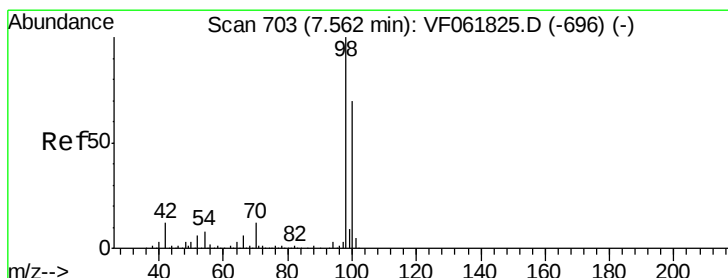
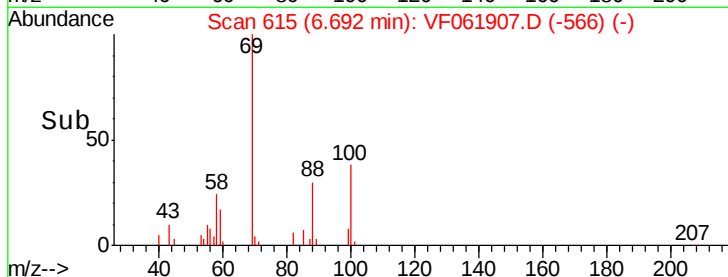
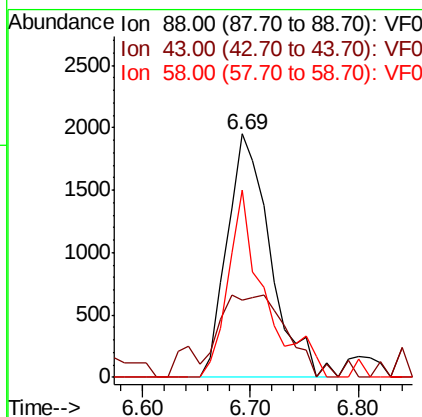
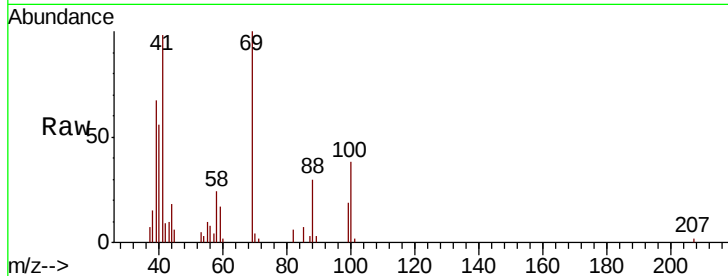
#49
1,4-Dioxane
Concen: 445.302 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	5431		
43	31.5		28.4	42.6
58	77.1		50.7	76.1#

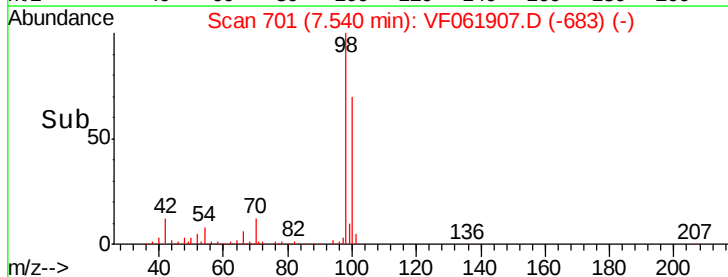
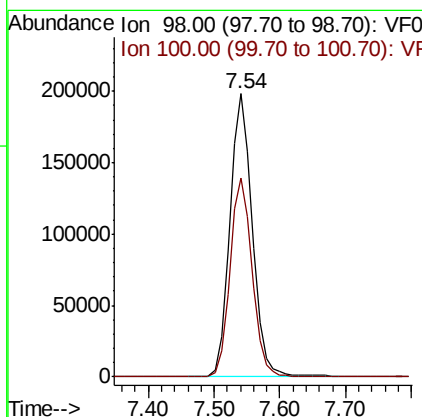
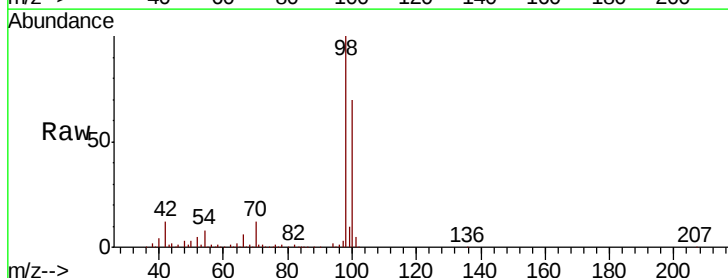
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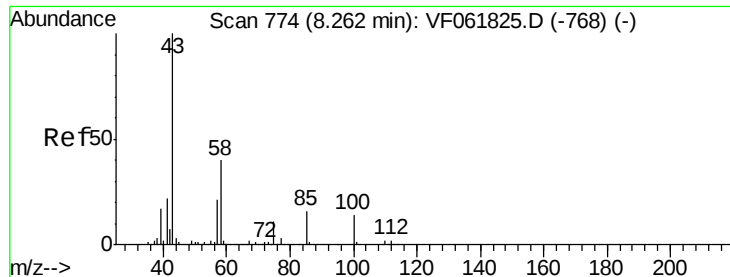
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#50
Toluene-d8
Concen: 52.981 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	474028		
100	70.1		56.0	84.0





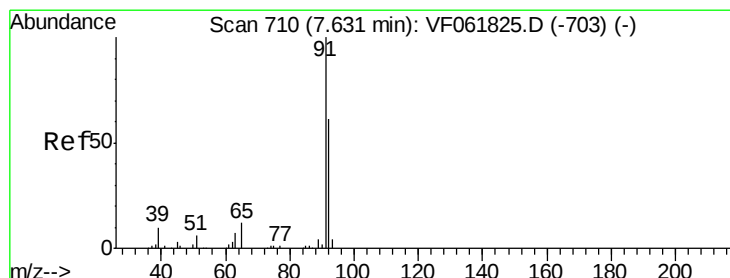
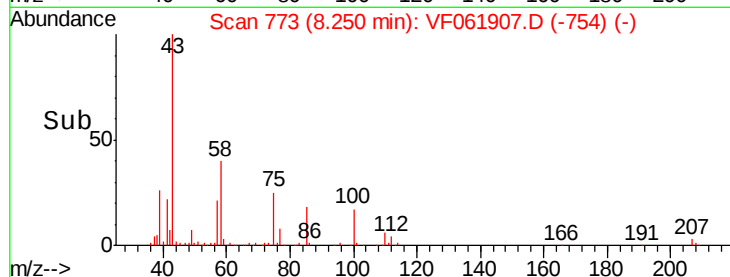
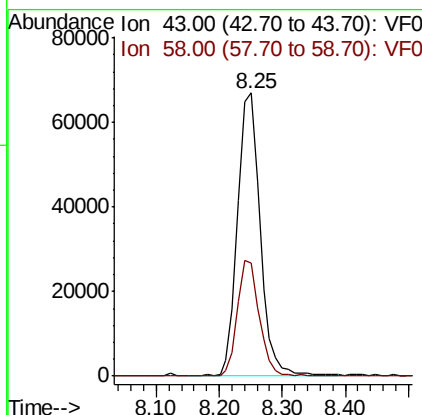
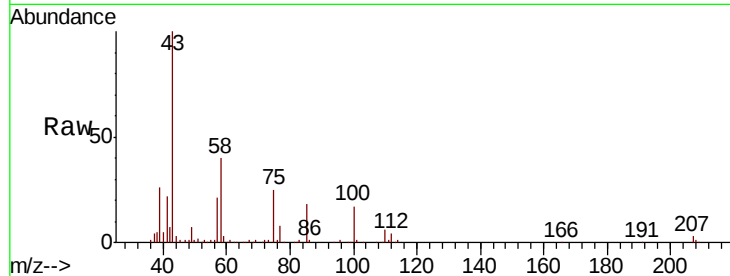
#51
4-Methyl-2-Pentanone
Concen: 114.415 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion: 43 Resp: 166701
Ion Ratio Lower Upper
43 100
58 39.9 31.8 47.8

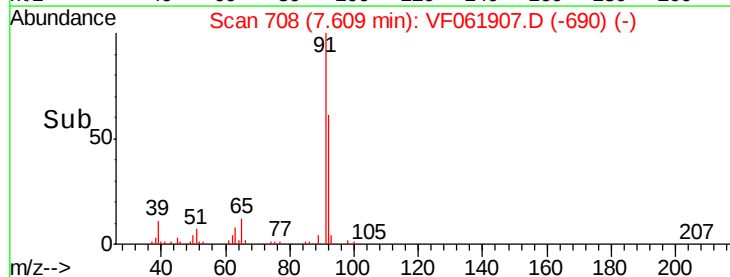
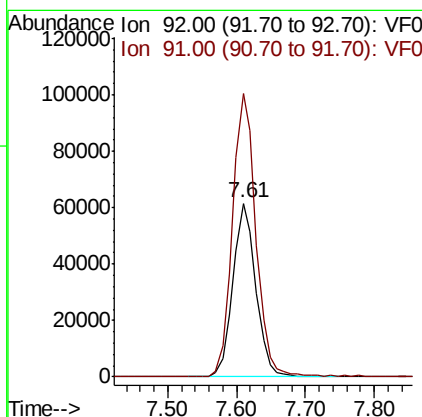
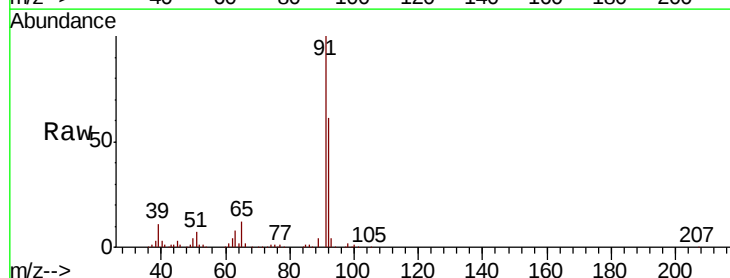
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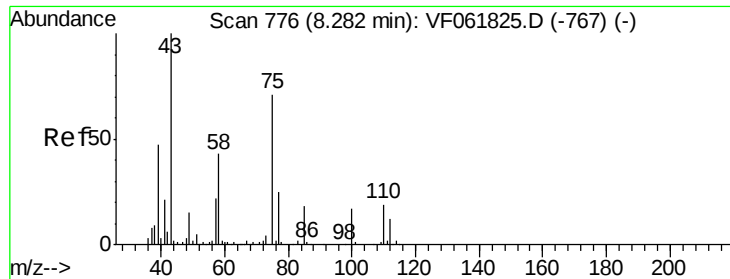
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#52
Toluene
Concen: 22.449 ug/l
RT: 7.61 min Scan# 708
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 92 Resp: 141440
Ion Ratio Lower Upper
92 100
91 163.1 132.0 198.0





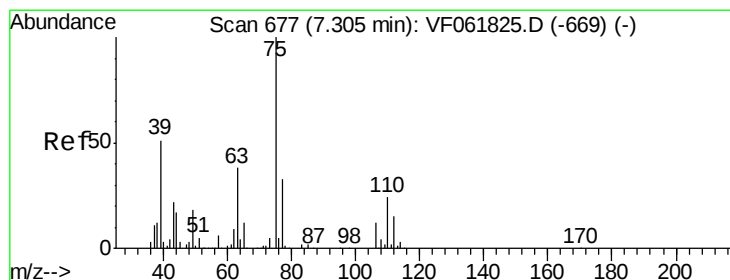
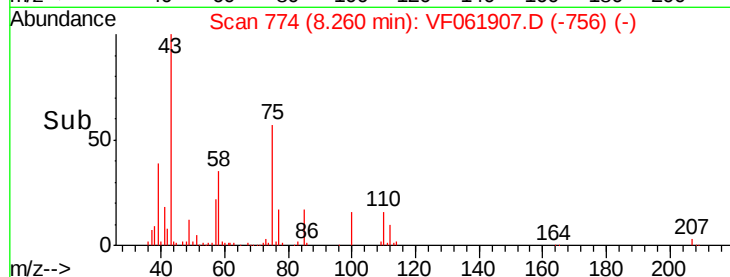
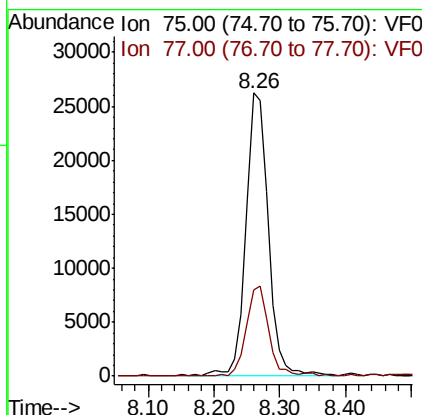
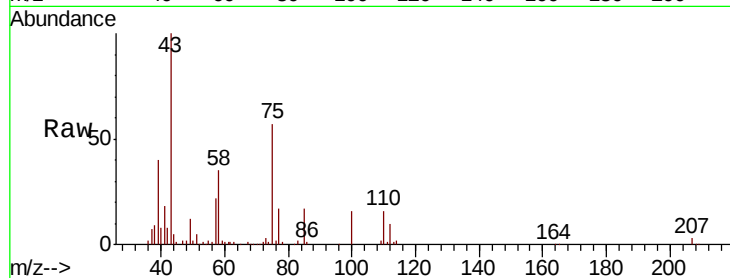
#53
t-1,3-Dichloropropene
Concen: 21.733 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 75 Resp: 63170
Ion Ratio Lower Upper
75 100
77 30.5 28.0 42.0

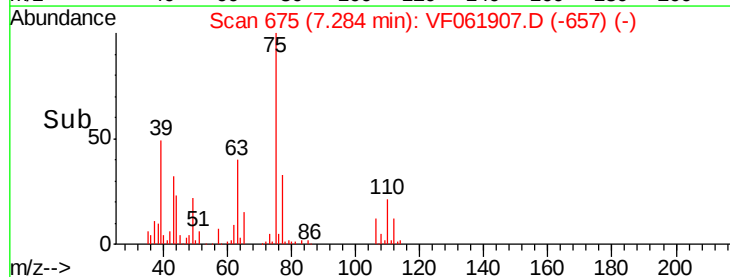
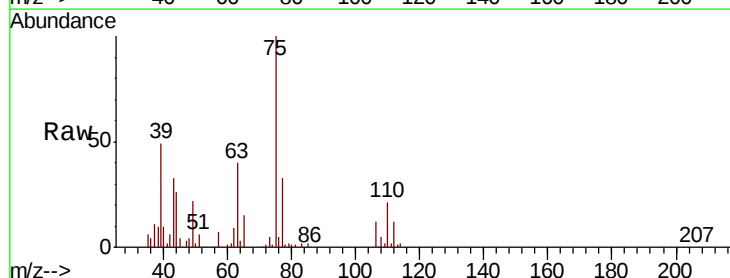
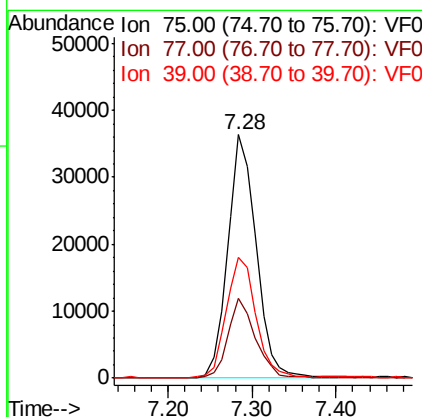
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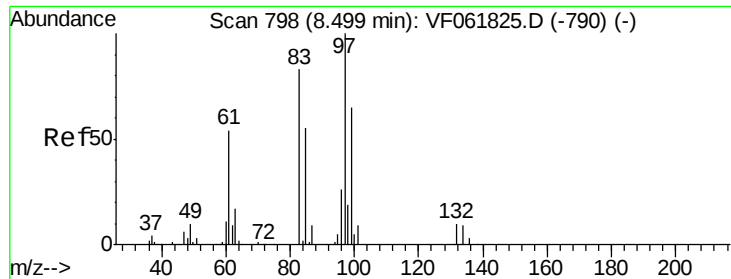
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 21.333 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 75 Resp: 85529
Ion Ratio Lower Upper
75 100
77 32.9 26.3 39.5
39 49.5 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 21.611 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

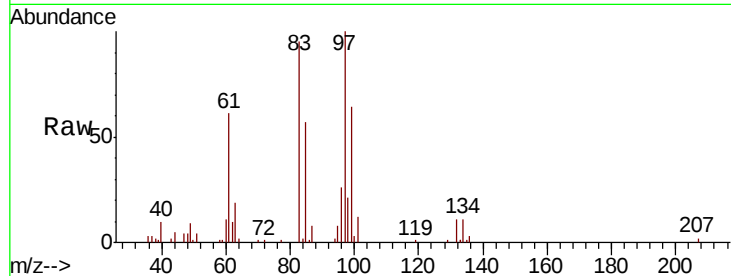
ClientSampleId :

VF0312SBSD01

Tgt Ion:	97	Resp:	39230
Ion	Ratio	Lower	Upper
97	100		
83	94.6	66.5	99.7
85	56.6	44.2	66.2
99	63.5	51.8	77.6

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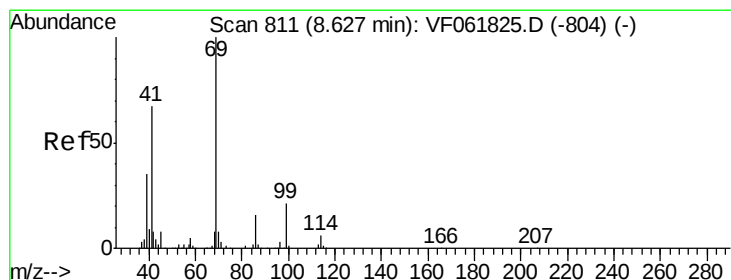
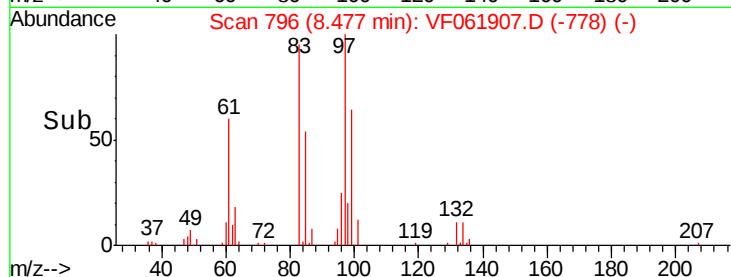
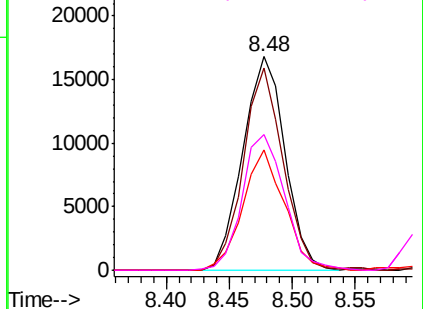


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.566 ug/l

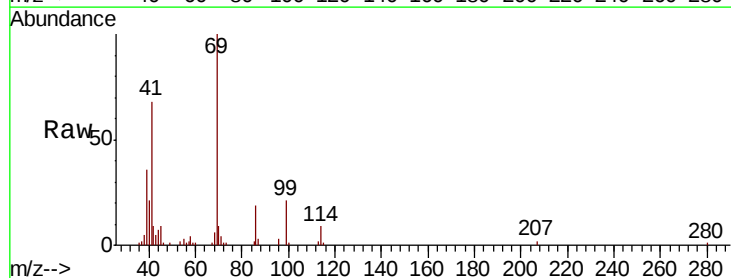
RT: 8.61 min Scan# 809

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

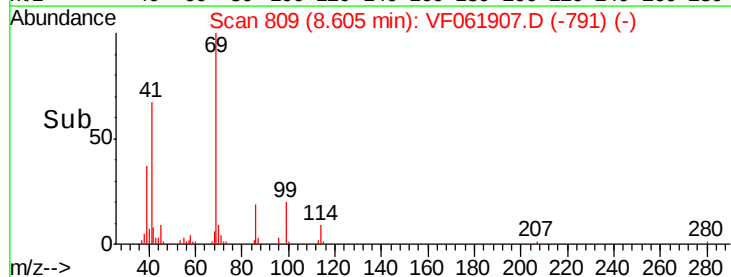
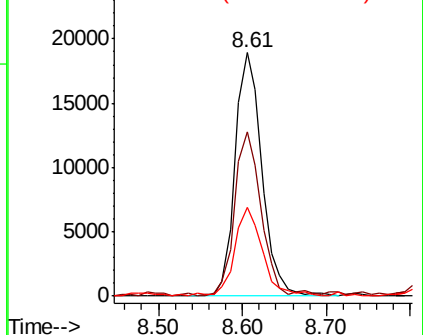
Tgt Ion:	69	Resp:	42075
Ion	Ratio	Lower	Upper
69	100		
41	67.7	53.9	80.9
39	36.5	28.3	42.5

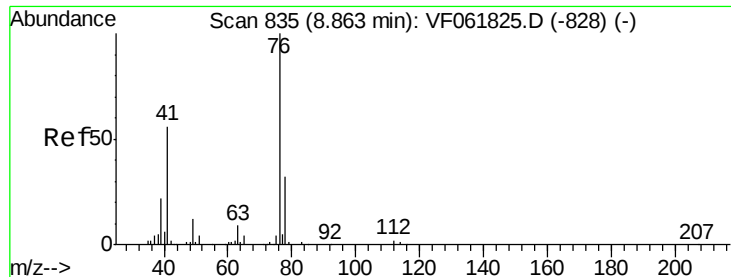


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.255 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 76 Resp: 63100

Ion Ratio Lower Upper

76 100

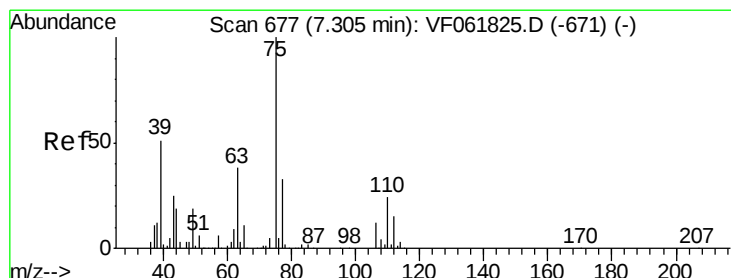
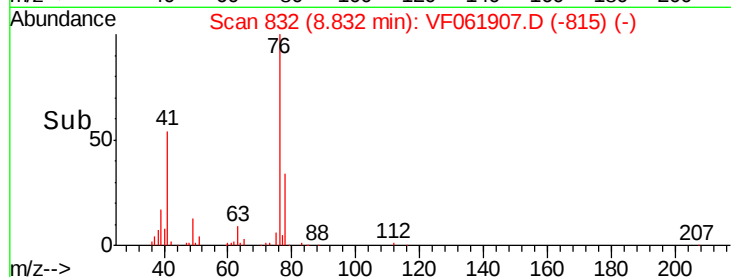
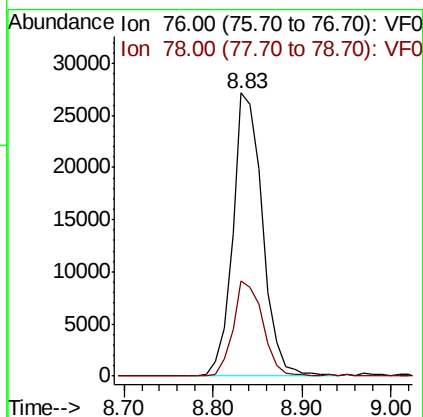
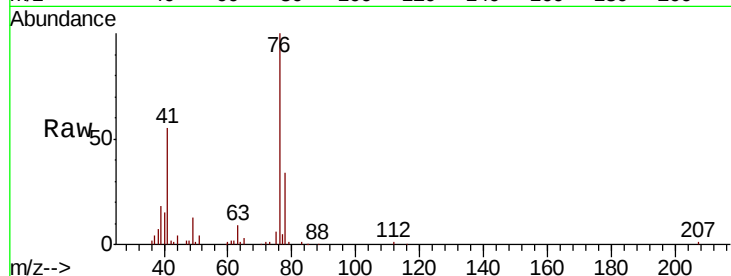
78 33.6 25.4 38.2

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#58

2-Chloroethyl Vinyl ether

Concen: 110.496 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061907.D

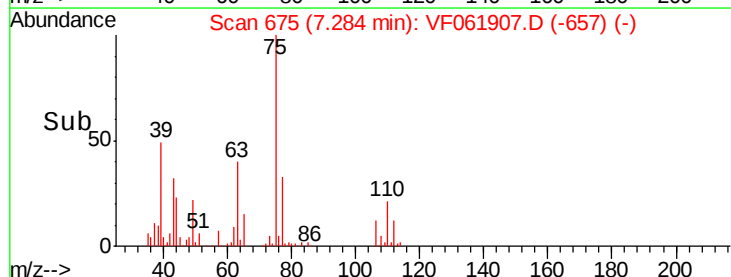
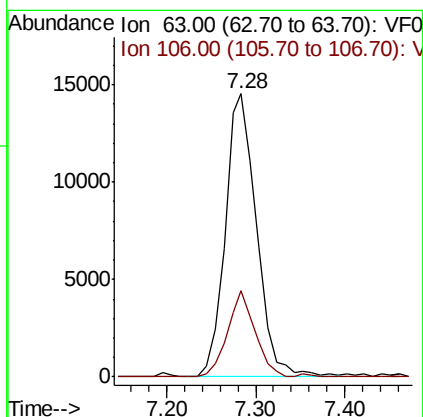
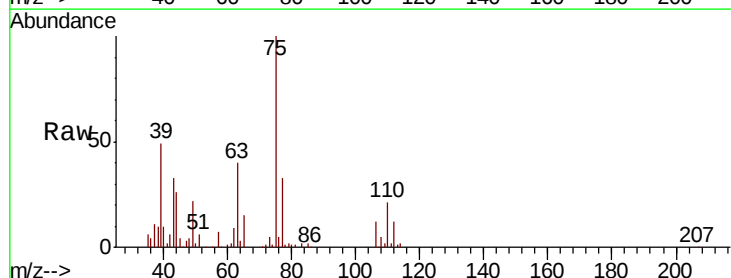
Acq: 12 Mar 2019 16:11

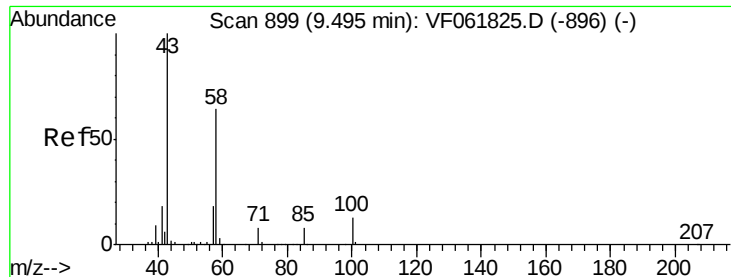
Tgt Ion: 63 Resp: 35760

Ion Ratio Lower Upper

63 100

106 30.4 24.3 36.5





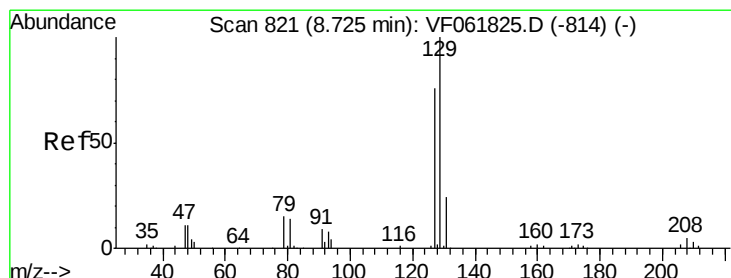
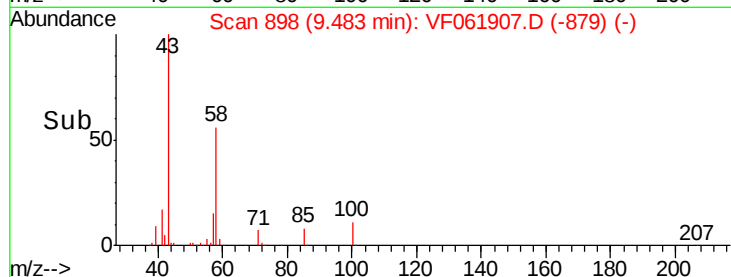
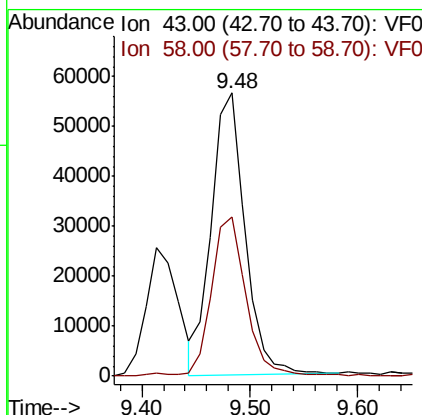
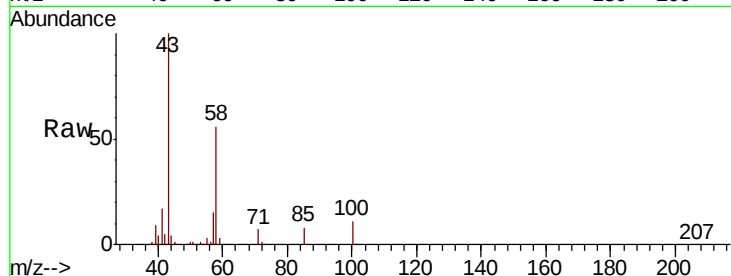
#59
2-Hexanone
Concen: 115.772 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion: 43 Resp: 121687
Ion Ratio Lower Upper
43 100
58 56.2 28.8 86.4

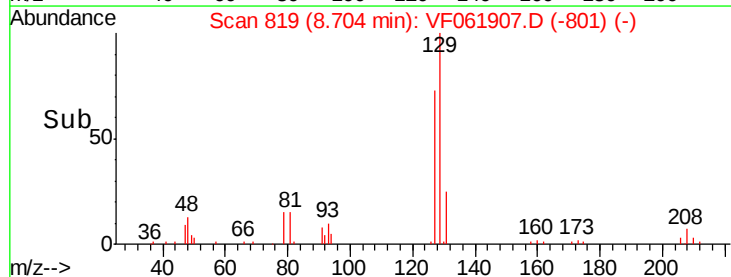
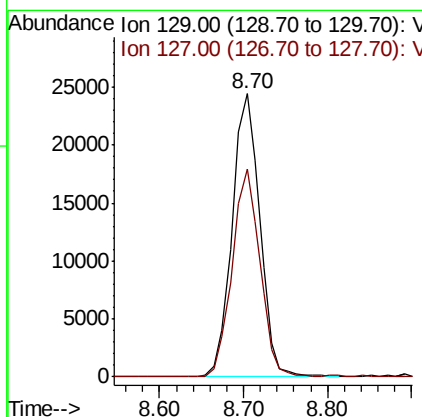
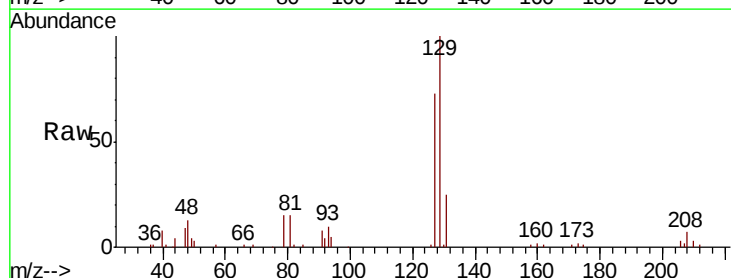
Manual Integrations
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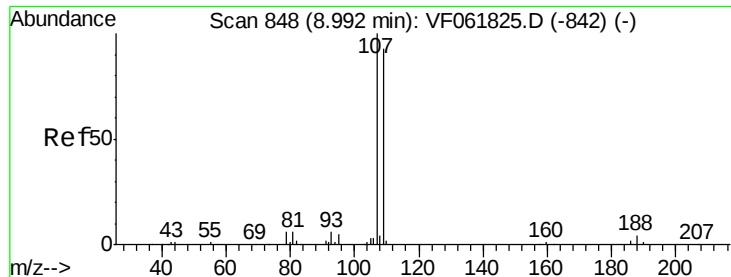
MMDadoda
3/13/2019 4:41:21 PM



#60
Dibromochloromethane
Concen: 21.608 ug/l
RT: 8.70 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 129 Resp: 55906
Ion Ratio Lower Upper
129 100
127 73.2 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.966 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 107 Resp: 43849

Ion Ratio Lower Upper

107 100

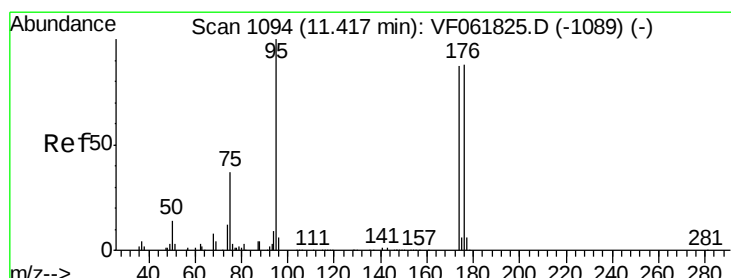
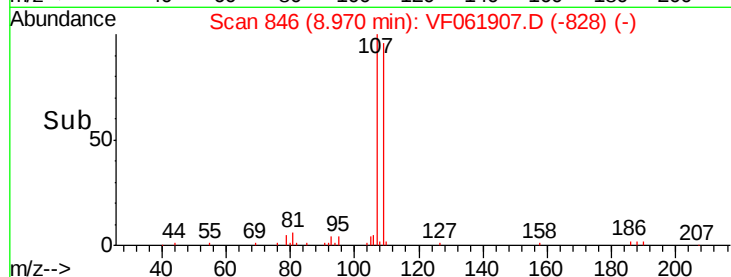
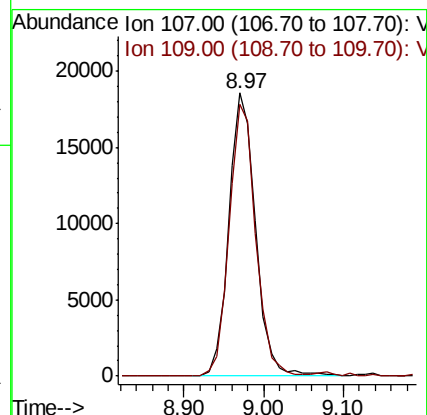
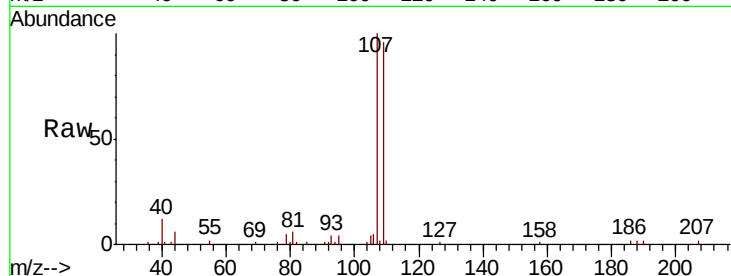
109 96.3 74.6 112.0

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 52.672 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

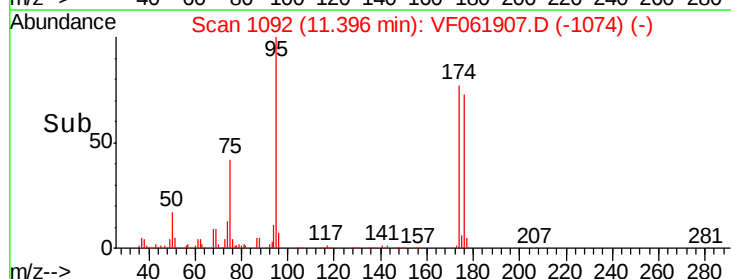
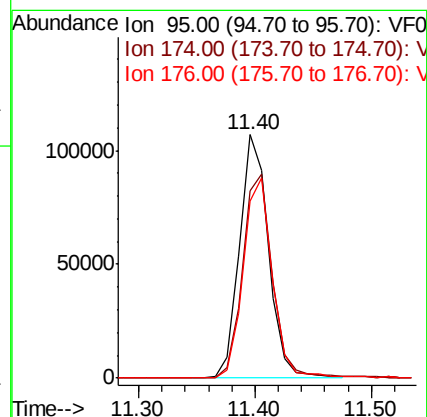
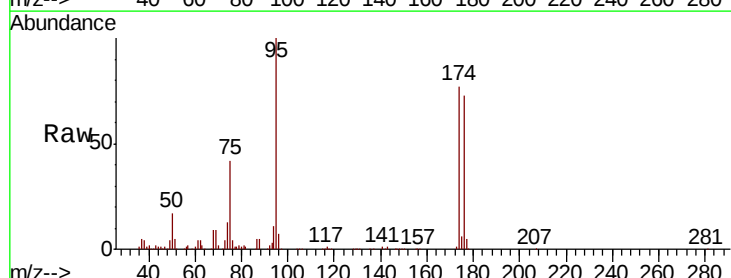
Tgt Ion: 95 Resp: 184606

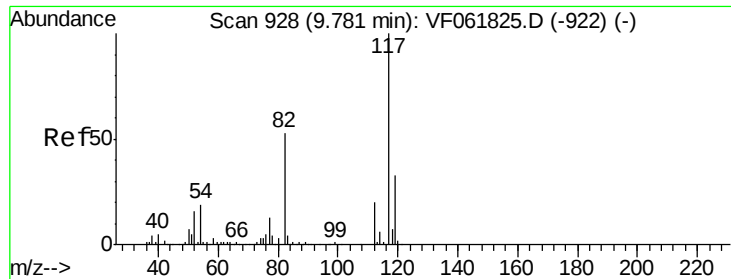
Ion Ratio Lower Upper

95 100

174 76.9 0.0 174.0

176 72.6 0.0 175.2





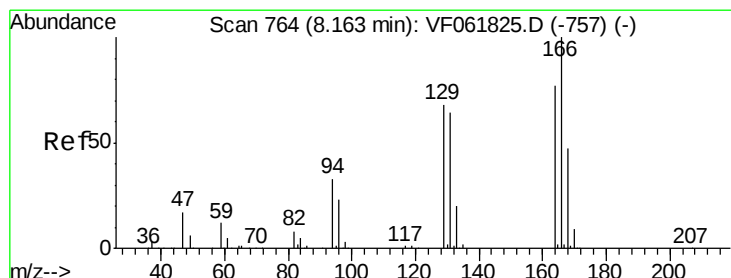
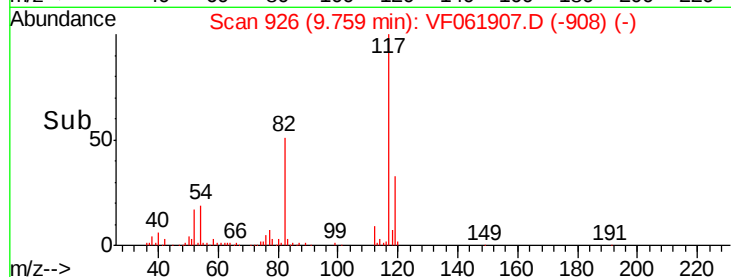
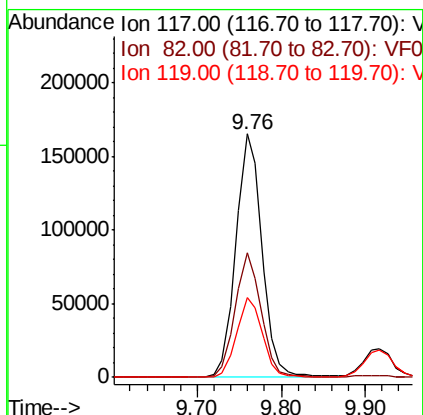
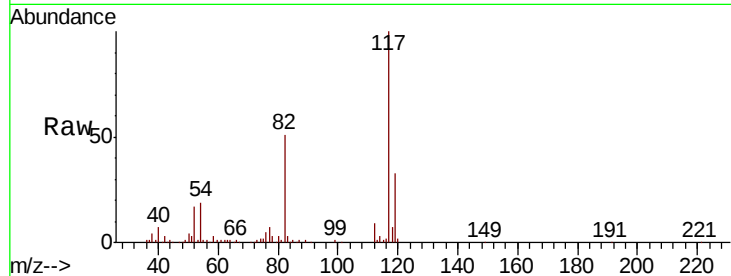
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	357989		
82	51.0	42.6	63.8	
119	32.9	26.0	39.0	

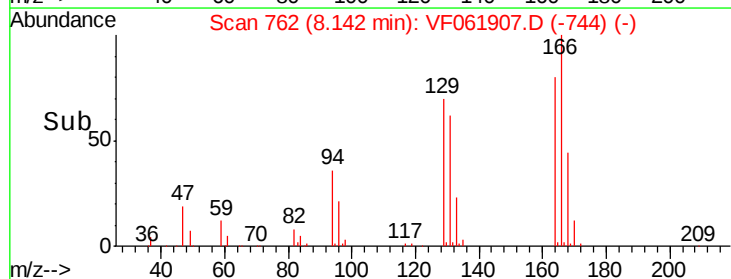
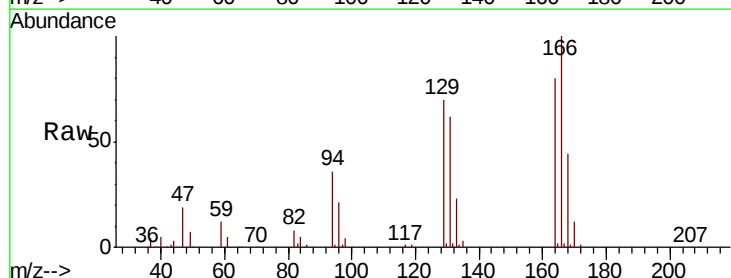
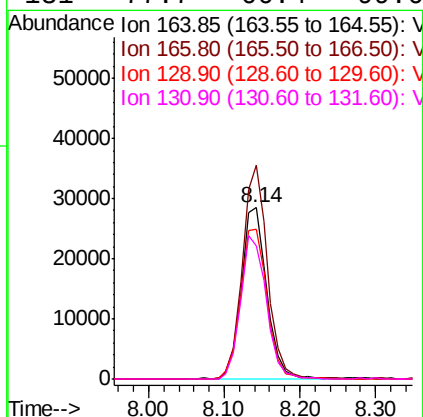
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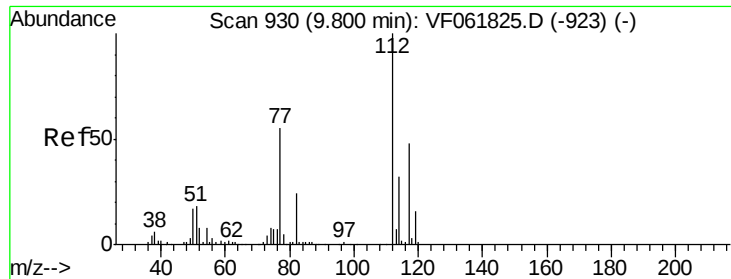
MMDadoda
3/13/2019 4:41:21 PM



#64
Tetrachloroethene
Concen: 24.158 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	66453		
166	124.8	103.4	155.0	
129	87.3	69.9	104.9	
131	77.7	66.4	99.6	





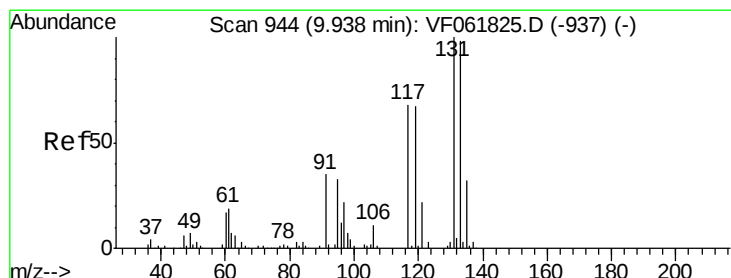
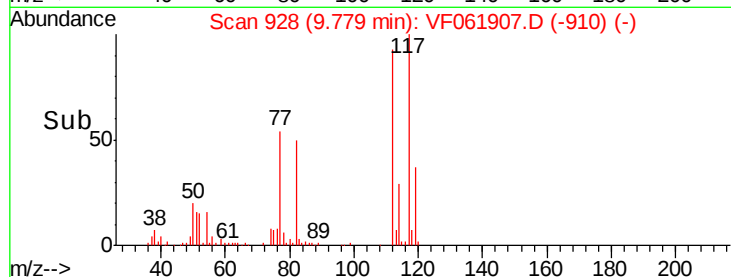
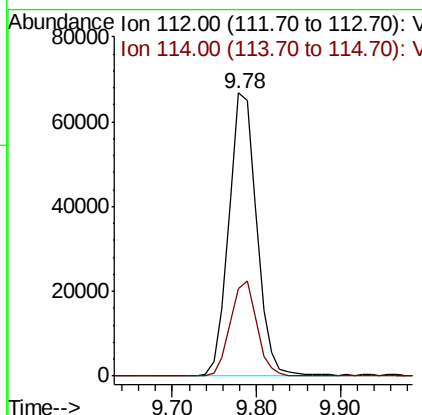
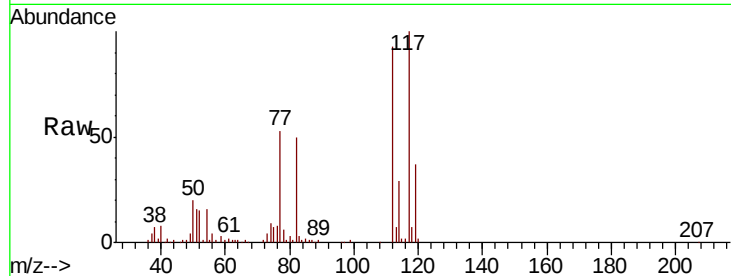
#65
Chlorobenzene
Concen: 22.409 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion:112 Resp: 154123
Ion Ratio Lower Upper
112 100
114 31.0 25.5 38.3

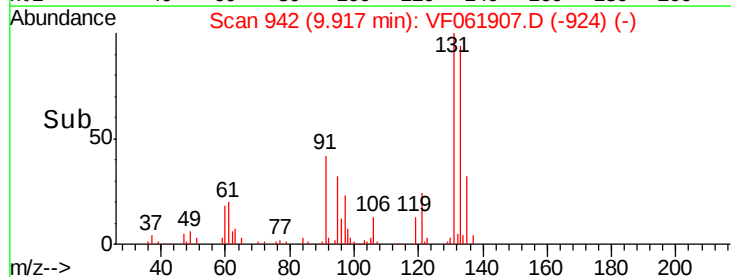
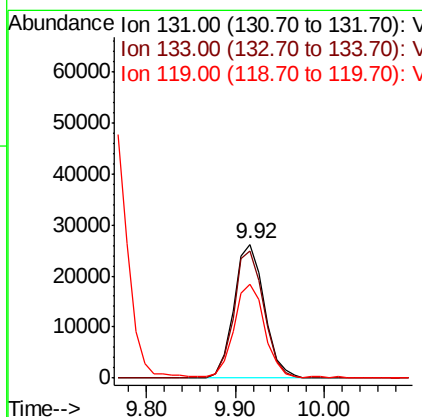
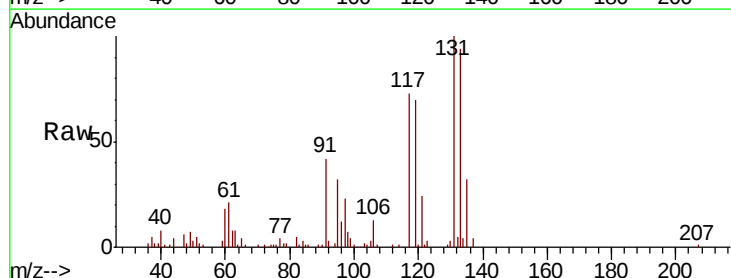
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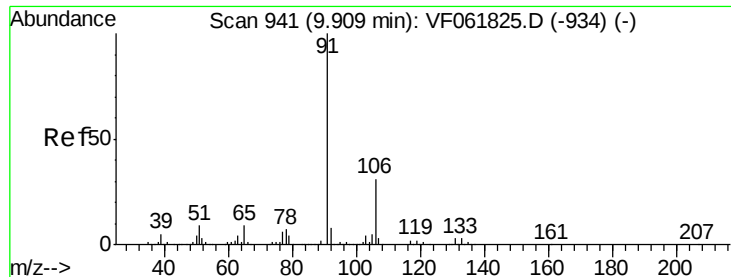
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 23.538 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion:131 Resp: 62722
Ion Ratio Lower Upper
131 100
133 94.5 48.9 146.7
119 70.4 33.6 100.8





#67

Ethyl Benzene

Concen: 23.743 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion: 91 Resp: 270656

Ion Ratio Lower Upper

91 100

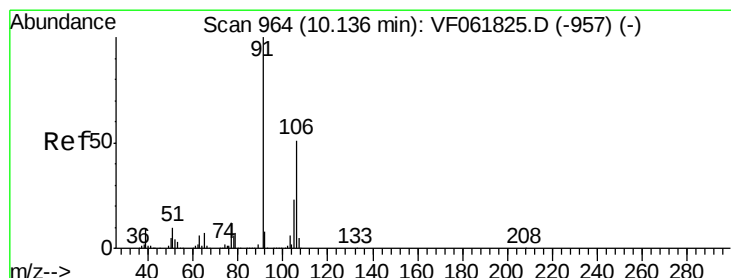
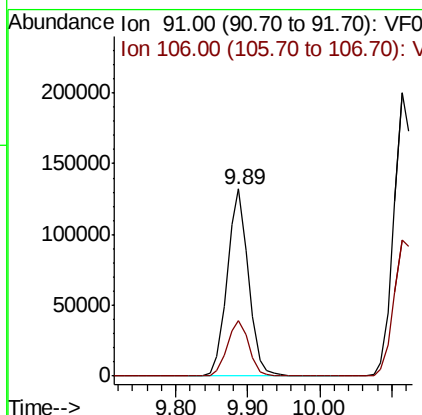
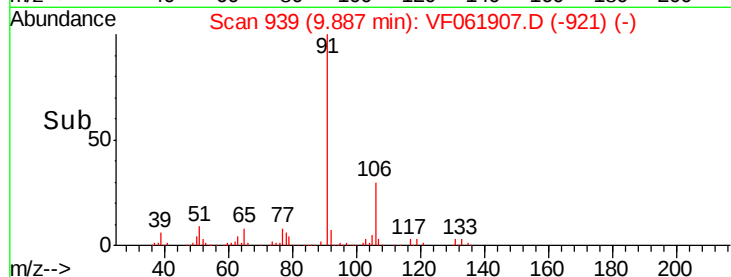
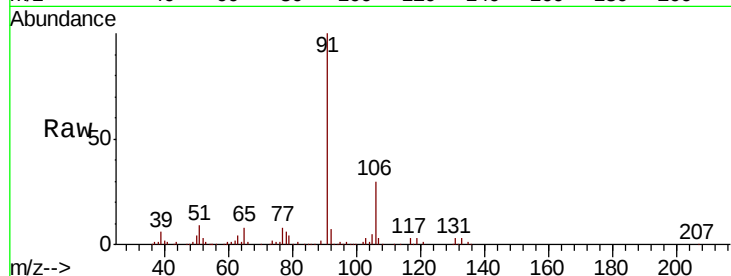
106 29.7 25.0 37.4

Manual Integrations

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#68

m/p-Xylenes

Concen: 47.330 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061907.D

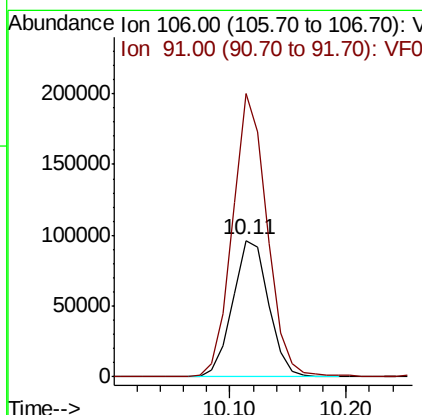
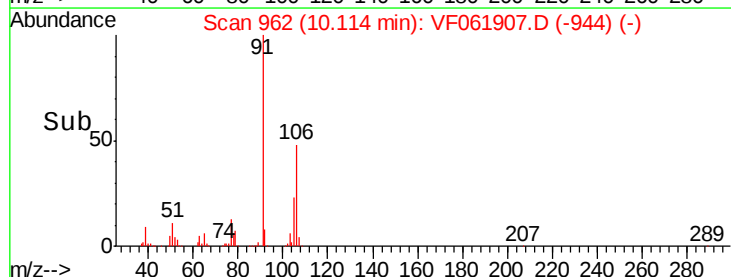
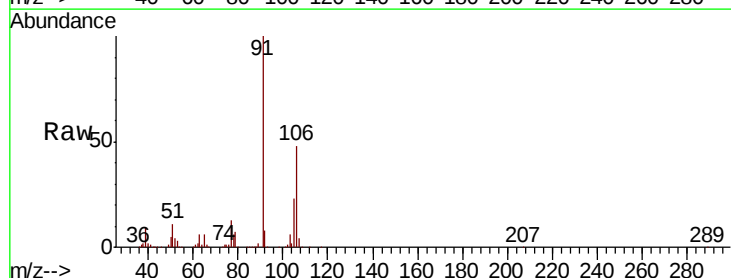
Acq: 12 Mar 2019 16:11

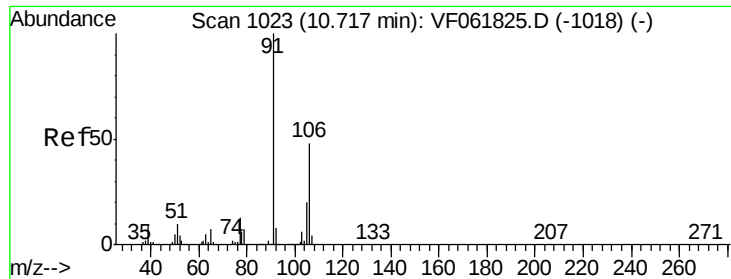
Tgt Ion: 106 Resp: 206690

Ion Ratio Lower Upper

106 100

91 207.7 157.5 236.3





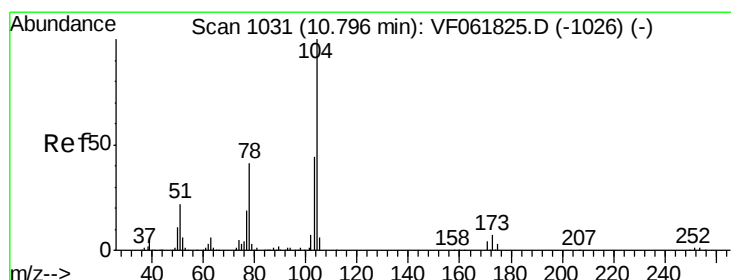
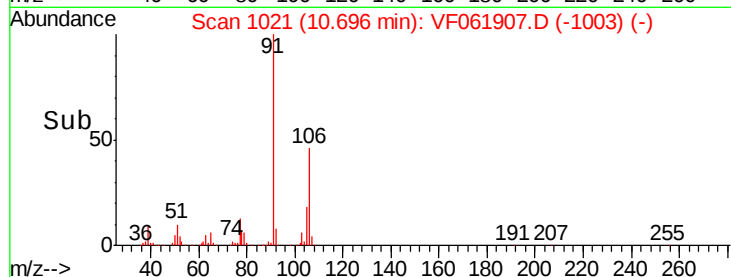
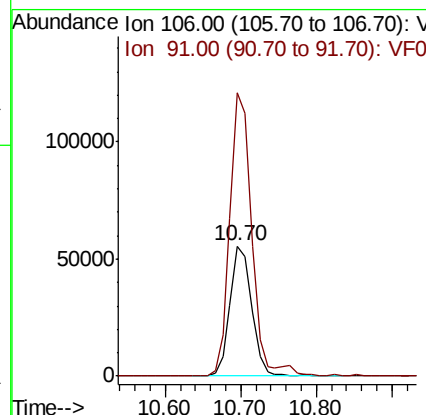
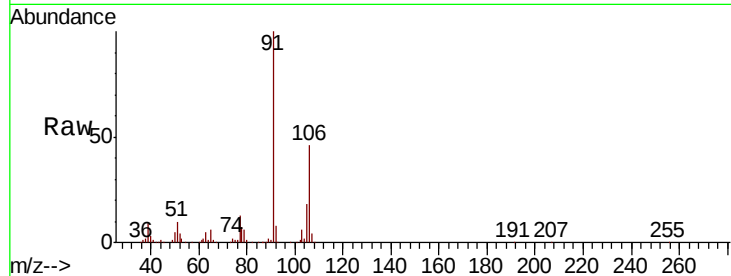
#69
o-Xylene
Concen: 23.585 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion:106 Resp: 110909
Ion Ratio Lower Upper
106 100
91 217.3 103.5 310.3

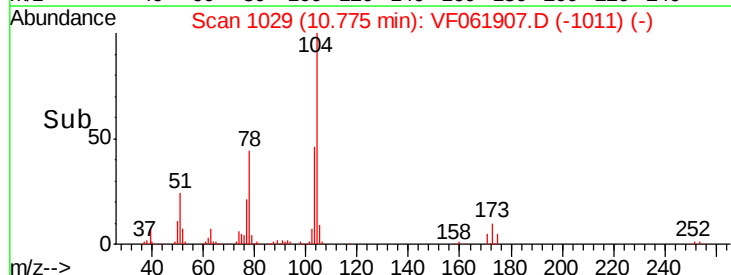
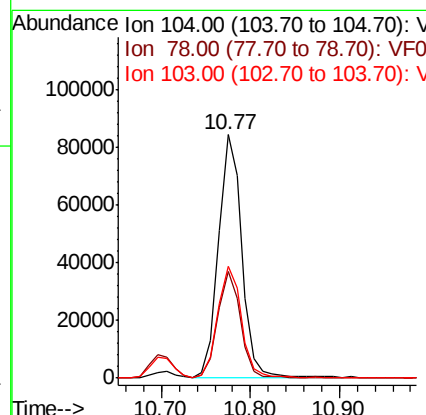
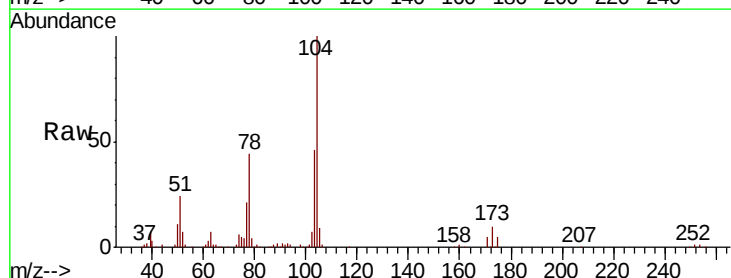
Manual Integrations
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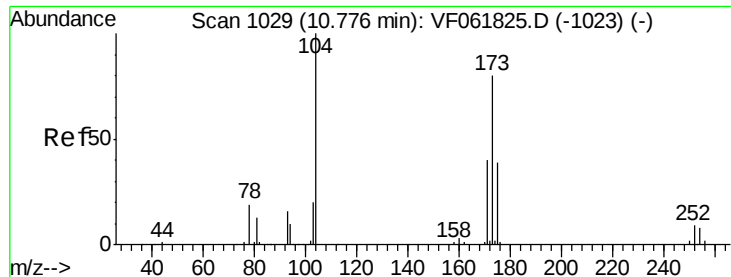
MMDadoda
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#70
Styrene
Concen: 23.404 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion:104 Resp: 154886
Ion Ratio Lower Upper
104 100
78 43.7 33.3 49.9
103 45.8 35.4 53.0





#71

Bromoform

Concen: 22.741 ug/l

RT: 10.76 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBSD01

Tgt Ion:173 Resp: 32028

Ion Ratio Lower Upper

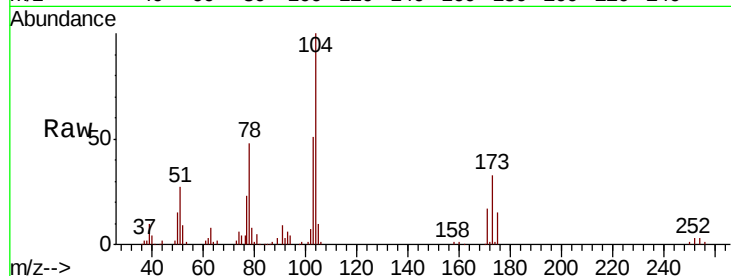
173 100

175 46.5 24.5 73.5

254 9.1 8.0 12.0

Manual Integrations
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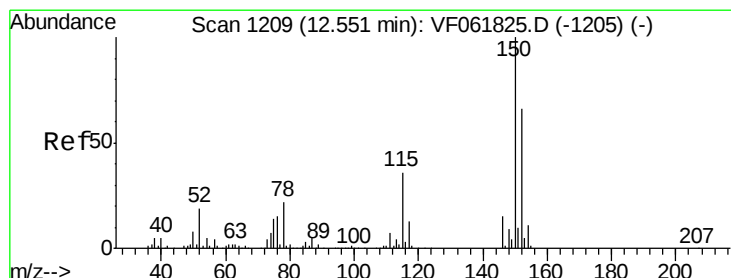
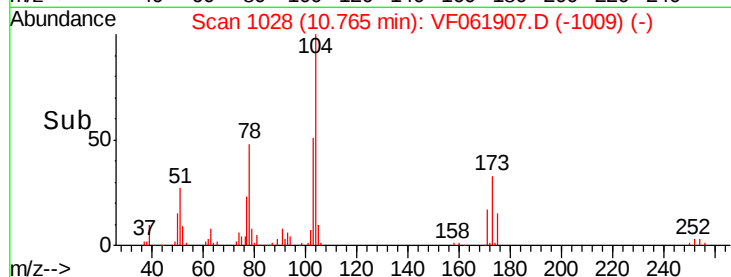
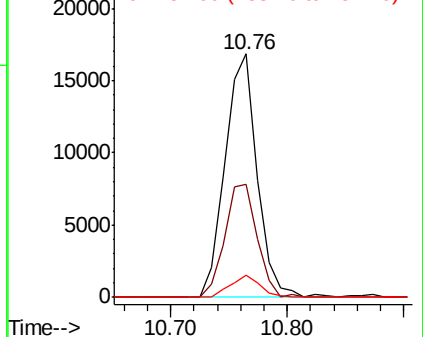


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

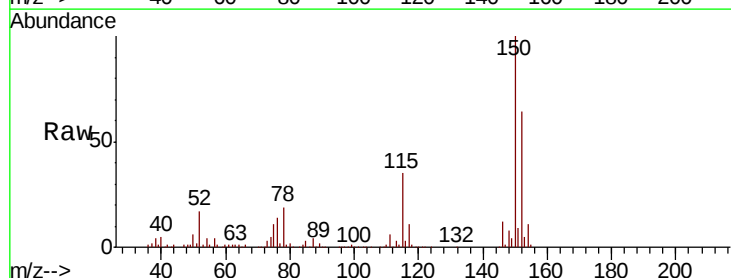
Tgt Ion:152 Resp: 201462

Ion Ratio Lower Upper

152 100

115 54.8 27.7 83.1

150 156.0 0.0 304.2

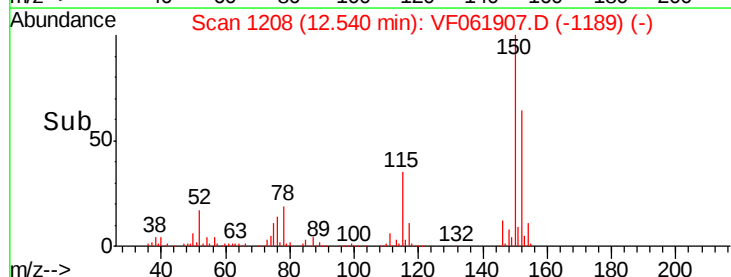
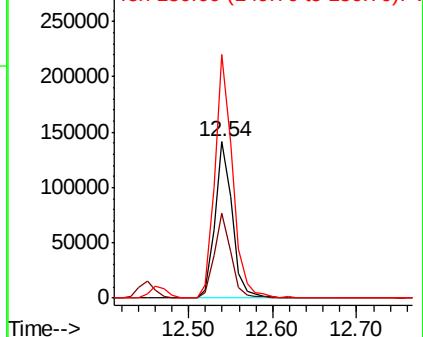


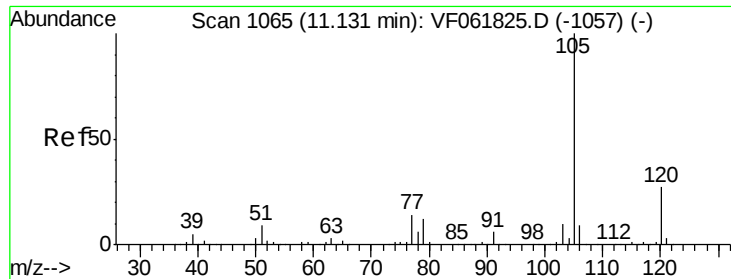
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.941 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

VF0312SBS01

Tgt Ion: 105 Resp: 332054

Ion Ratio Lower Upper

105 100

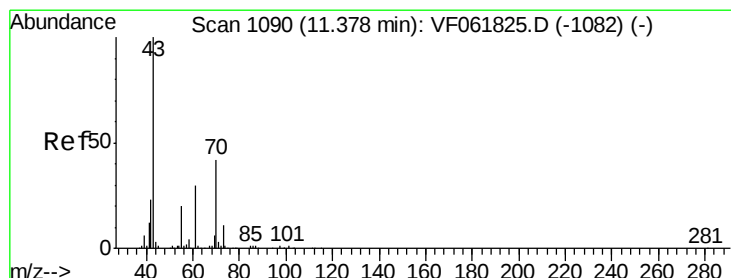
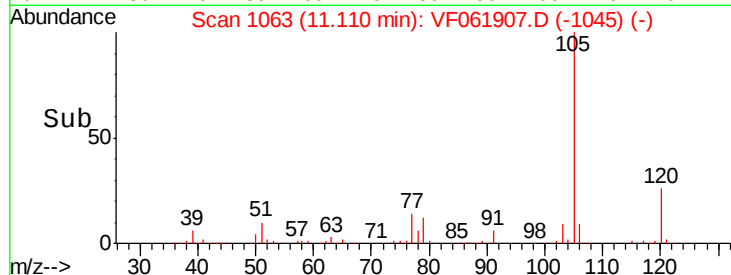
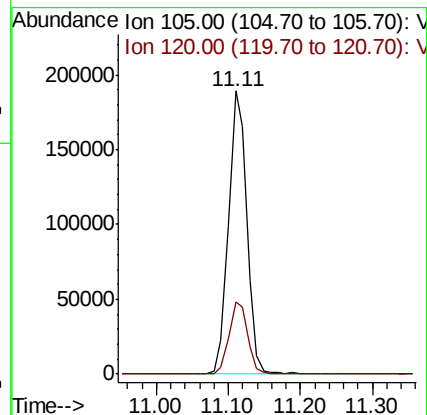
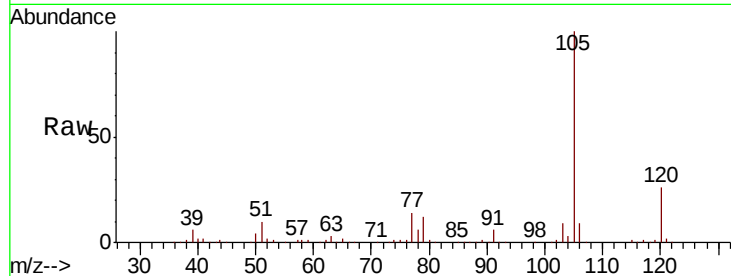
120 25.6 13.7 41.0

Manual Integrations

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#74

N-ethyl acetate

Concen: 22.879 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Tgt Ion: 43 Resp: 73053

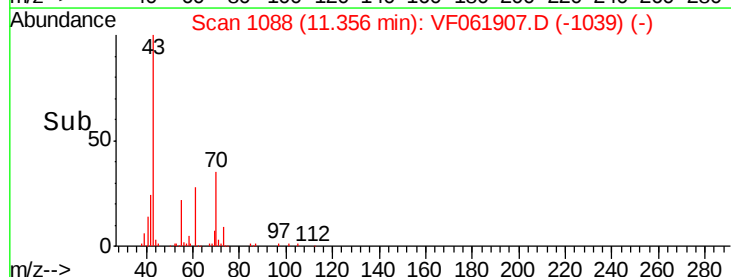
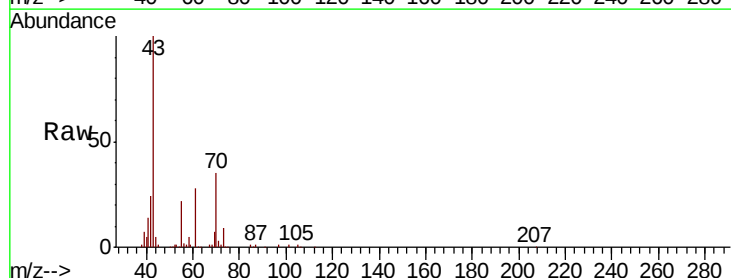
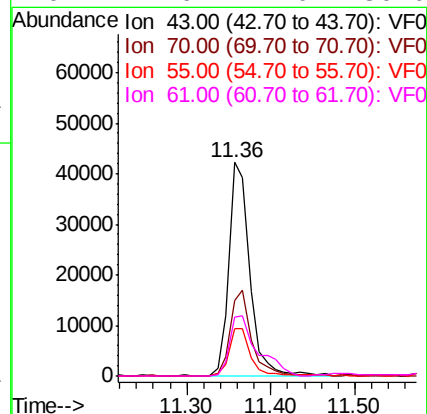
Ion Ratio Lower Upper

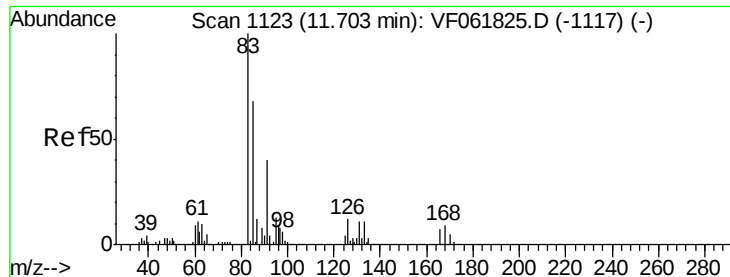
43 100

70 35.3 33.4 50.0

55 22.4 16.3 24.5

61 27.6 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.832 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061907.D

Acq: 12 Mar 2019 16:11

Instrument :

MSVOA_F

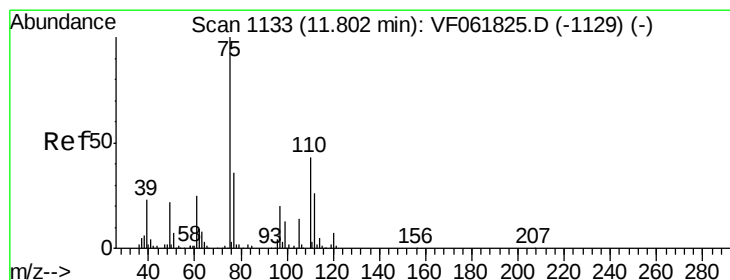
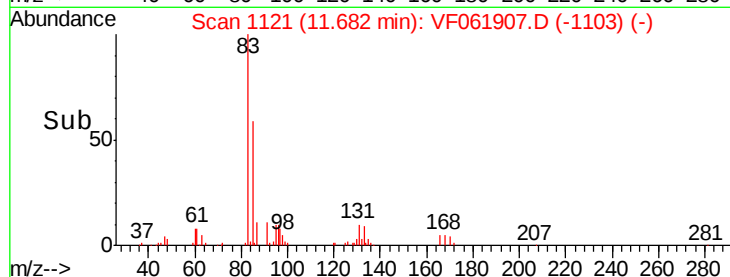
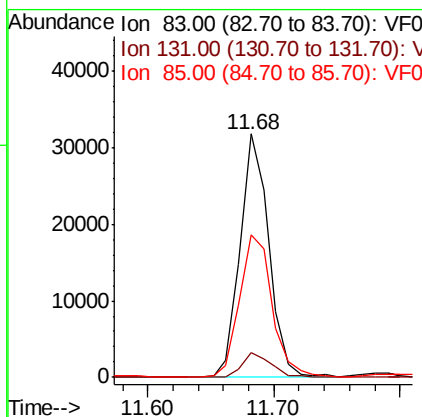
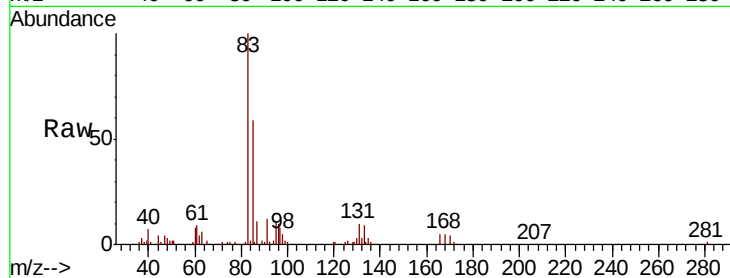
ClientSampleId :

VF0312SBSD01

Tgt Ion:	83	Resp:	50327
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.5	16.7
85	58.7	34.2	102.6

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#76

1,2,3-Trichloropropane

Concen: 23.313 ug/l

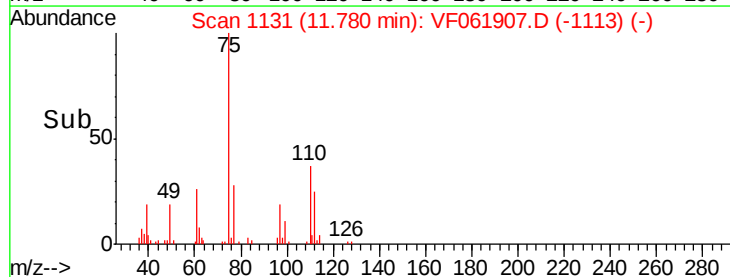
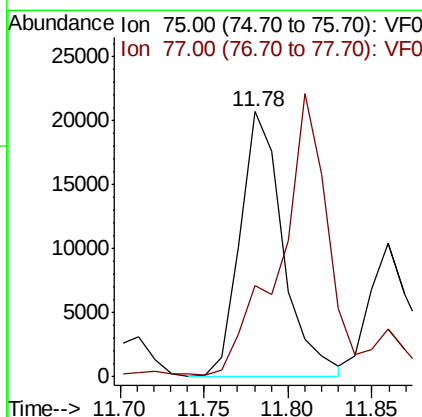
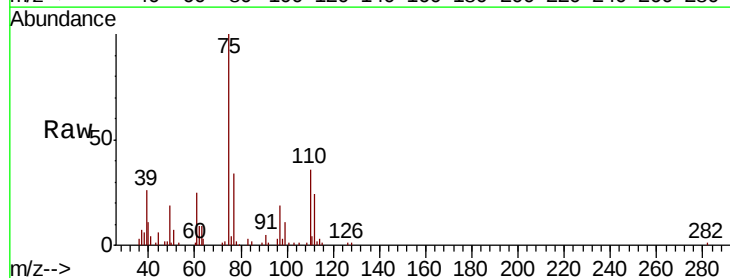
RT: 11.78 min Scan# 1131

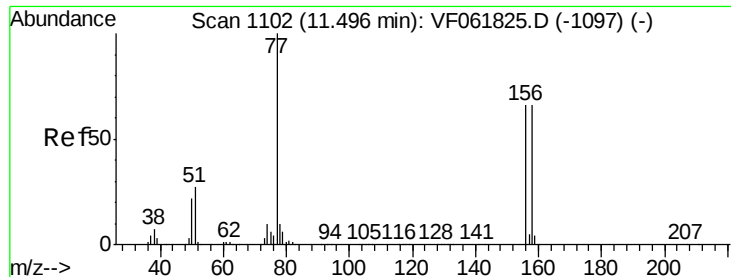
Delta R.T. -0.02 min

Lab File: VF061907.D

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Tgt Ion:	75	Resp:	36678
Ion Ratio	Lower	Upper	
75	100		
77	34.3	18.1	54.4





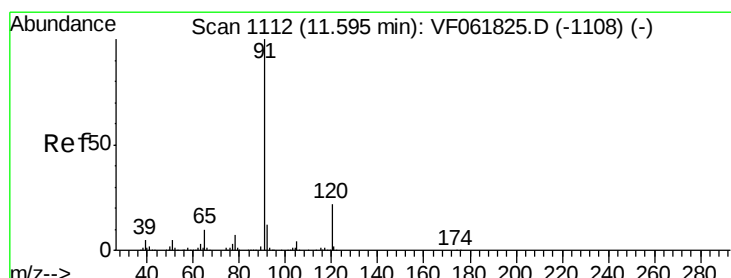
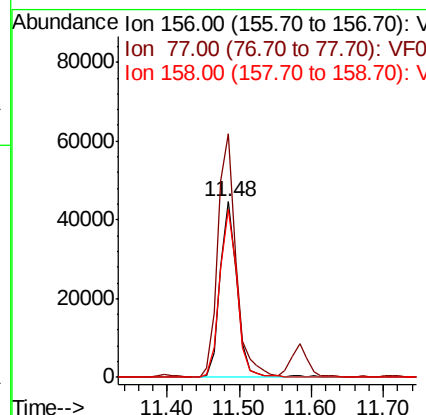
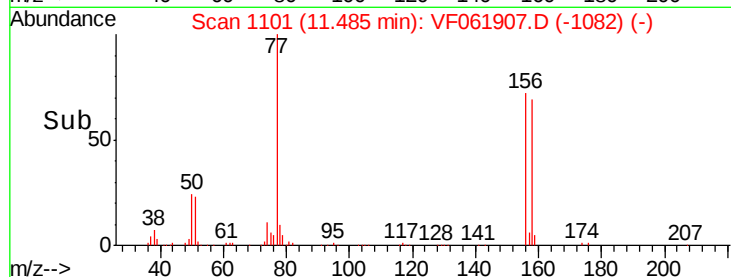
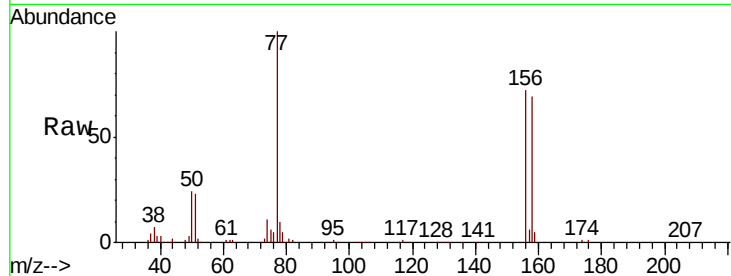
#77
Bromobenzene
Concen: 21.456 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion: 156 Resp: 71619
Ion Ratio Lower Upper
156 100
77 139.0 75.7 227.1
158 95.8 50.0 150.1

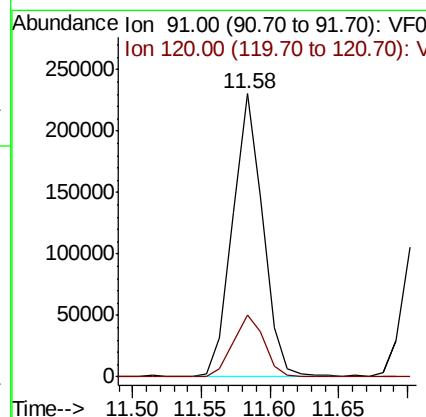
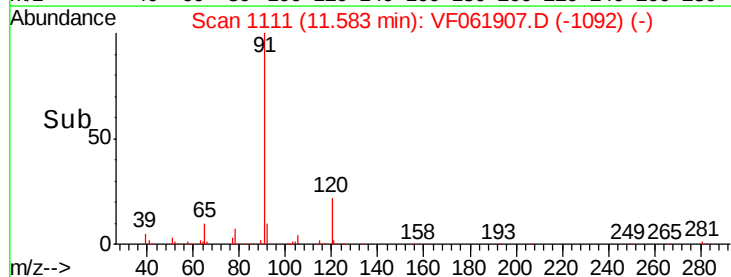
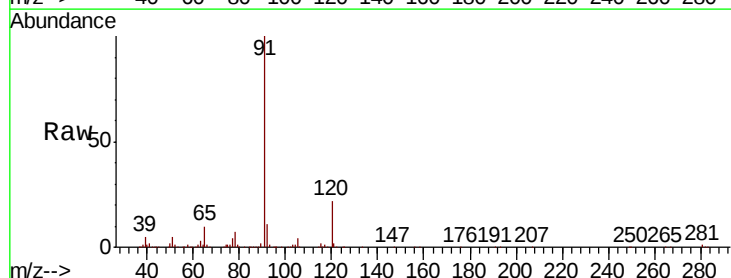
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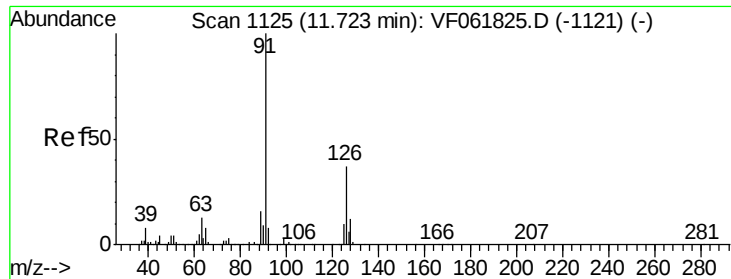
MMDadoda
3/13/2019 4:41:21 PM



#78
n-propylbenzene
Concen: 22.520 ug/l
RT: 11.58 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 91 Resp: 352725
Ion Ratio Lower Upper
91 100
120 22.0 11.1 33.1





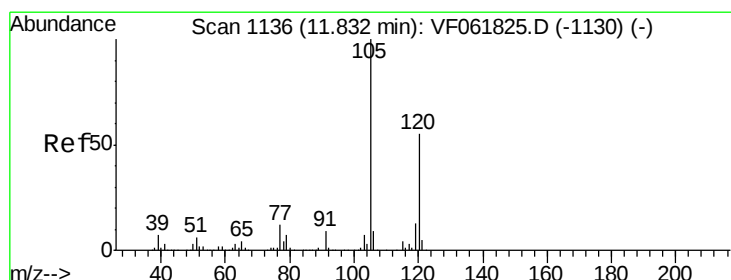
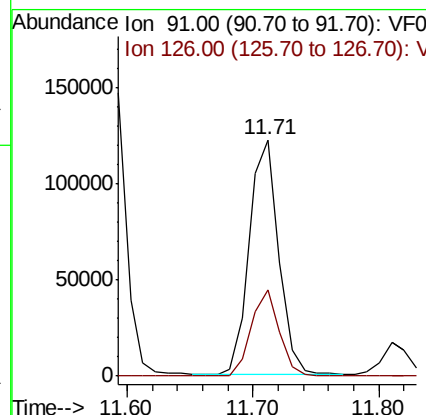
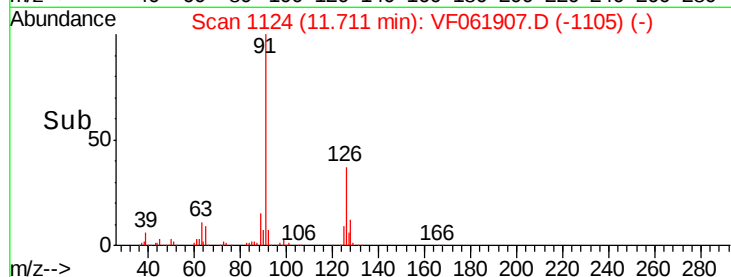
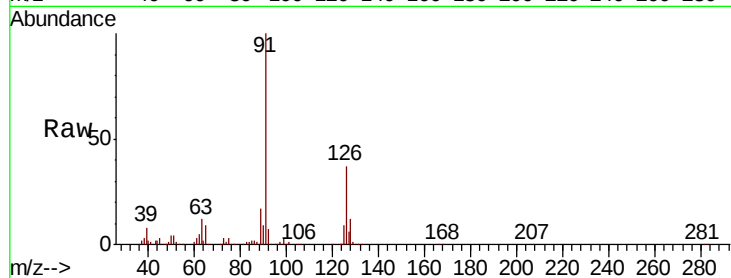
#79
2-Chlorotoluene
Concen: 21.993 ug/l
RT: 11.71 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion: 91 Resp: 196936
Ion Ratio Lower Upper
91 100
126 36.7 18.1 54.4

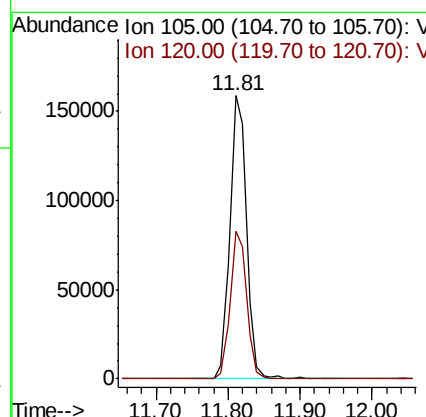
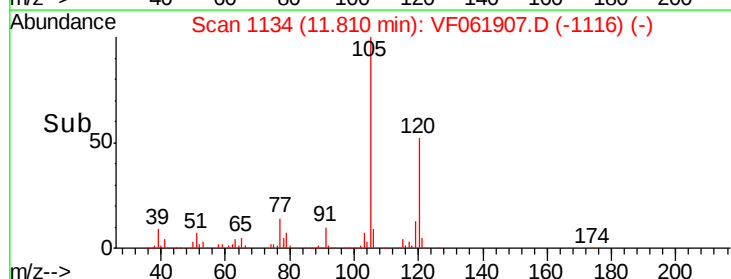
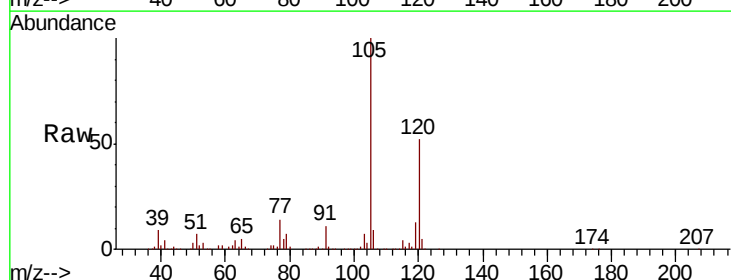
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#80
1,3,5-Trimethylbenzene
Concen: 22.854 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.02 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion: 105 Resp: 254494
Ion Ratio Lower Upper
105 100
120 52.2 27.4 82.2





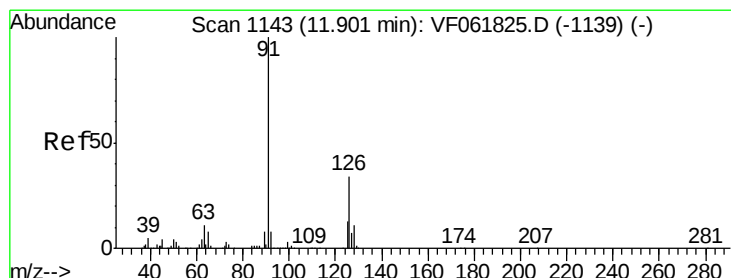
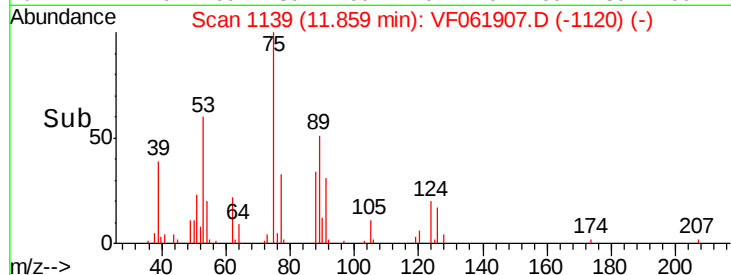
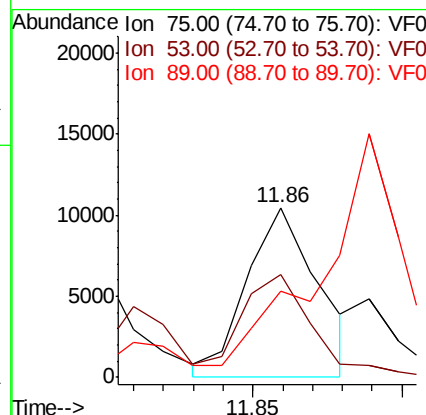
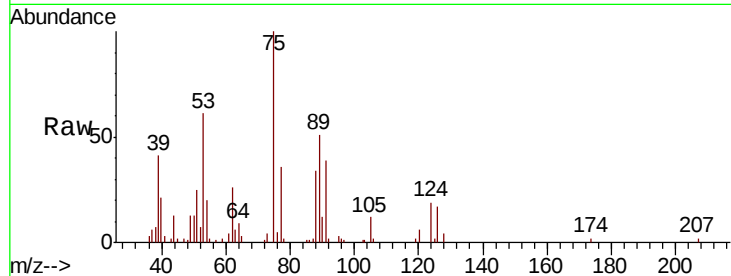
#81
trans-1,4-Dichloro-2-butene
Concen: 24.053 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	60.9	58.6	88.0
89	50.8	41.4	62.0

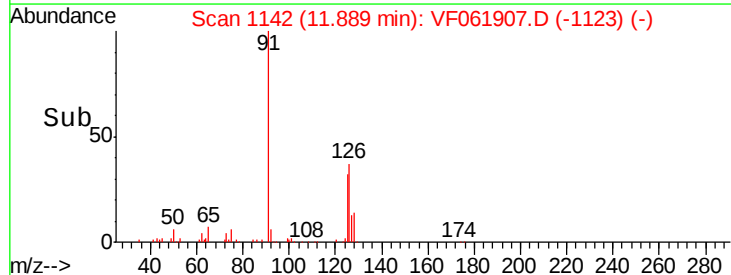
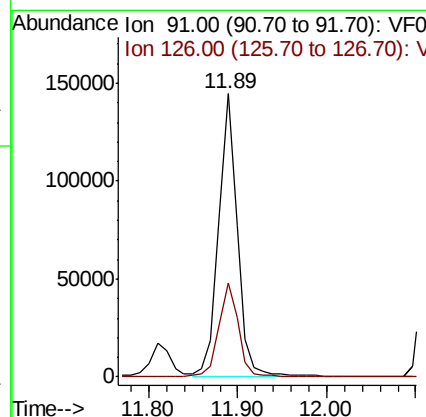
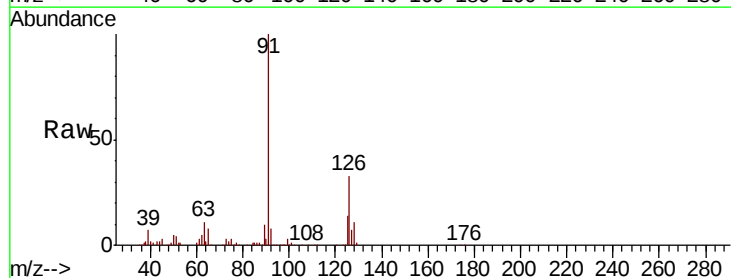
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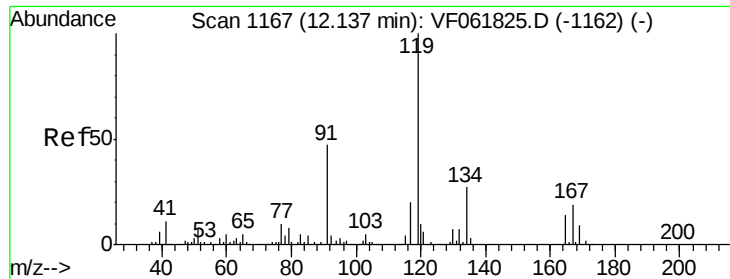
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#82
4-Chlorotoluene
Concen: 23.096 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.1	17.0	50.9





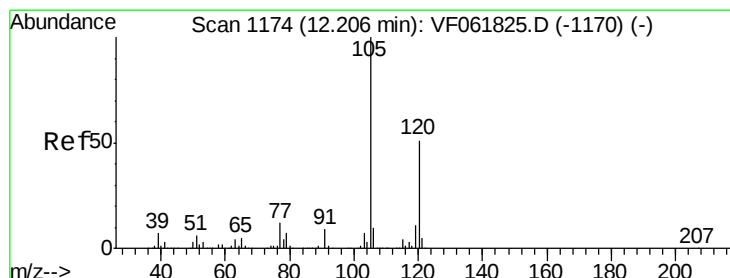
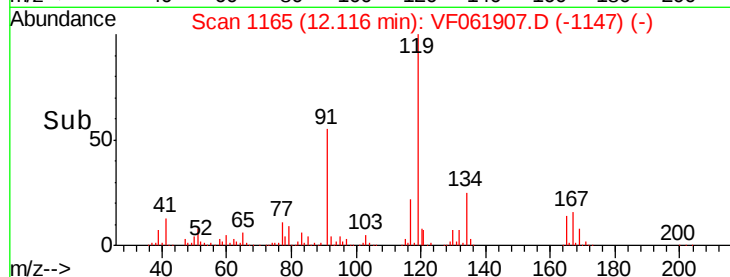
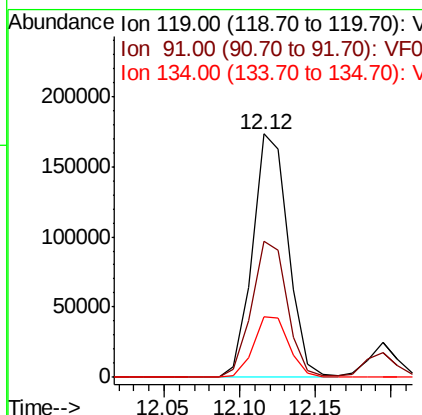
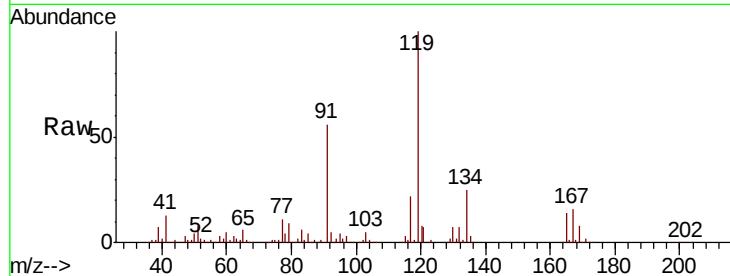
#83
 tert-Butylbenzene
 Concen: 24.209 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	286258		
91	55.9	23.5	70.5	
134	24.9	13.3	39.8	

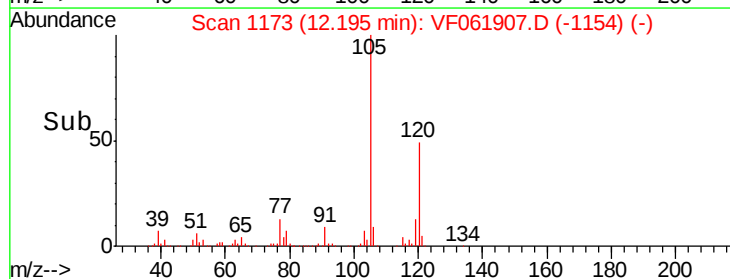
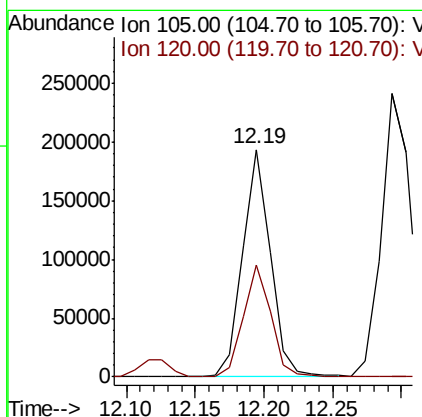
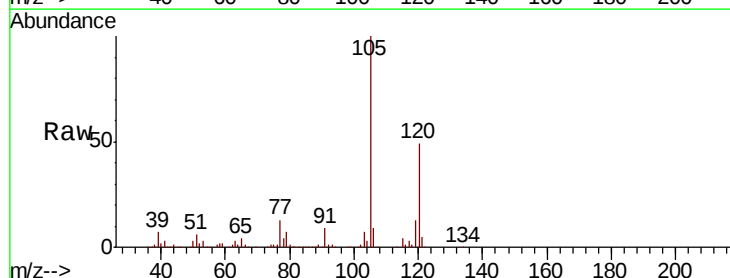
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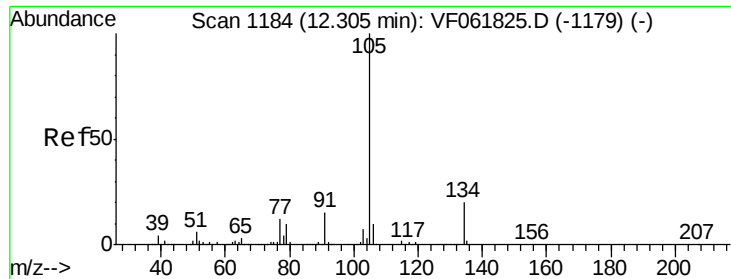
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#84
 1,2,4-Trimethylbenzene
 Concen: 24.963 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	272507		
120	49.1	25.8	77.4	





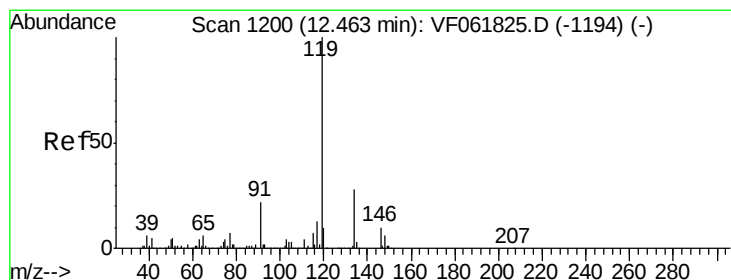
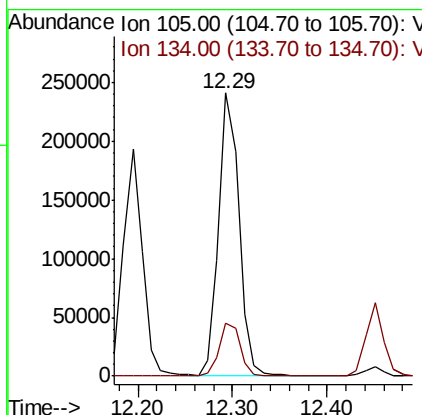
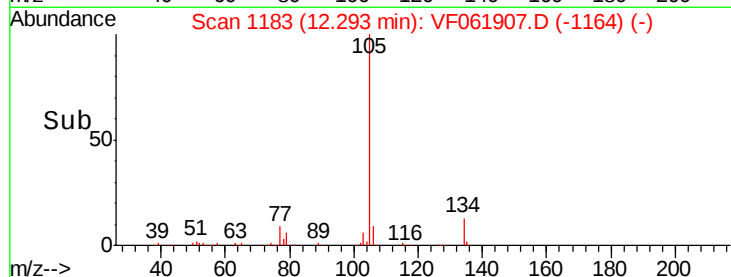
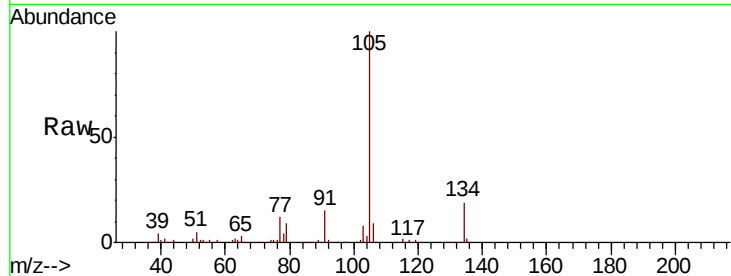
#85
 sec-Butylbenzene
 Concen: 23.436 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	360620		
134	18.7	9.8	29.5	

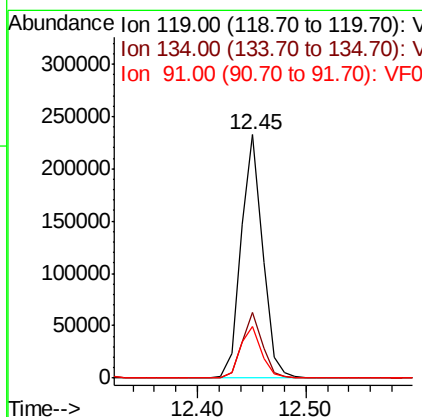
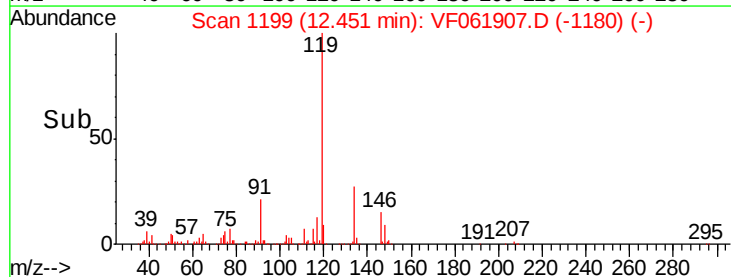
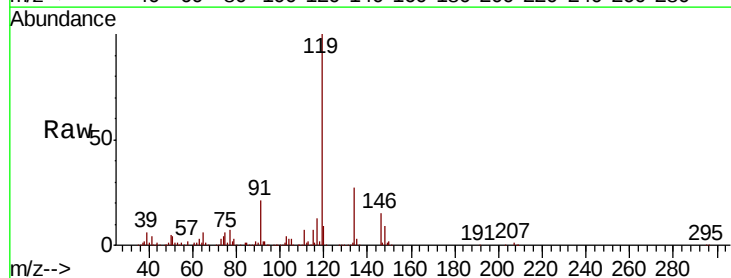
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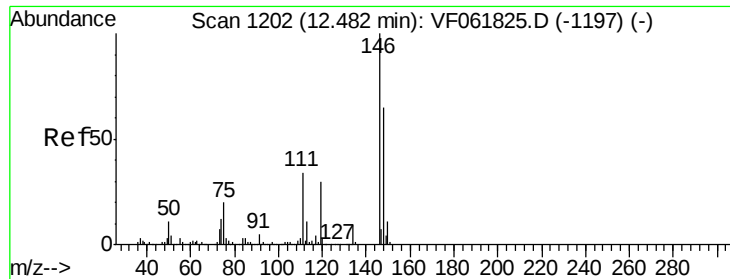
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#86
 p-Isopropyltoluene
 Concen: 24.585 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	321555		
134	27.0	14.0	42.0	
91	21.4	11.1	33.3	





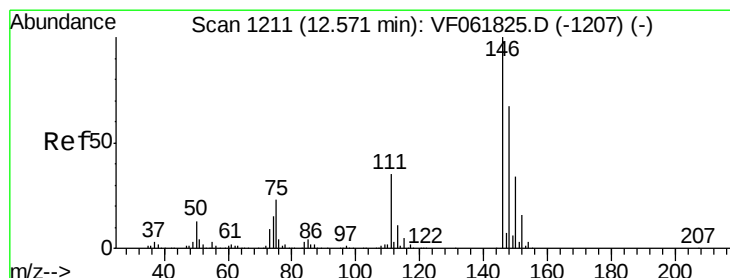
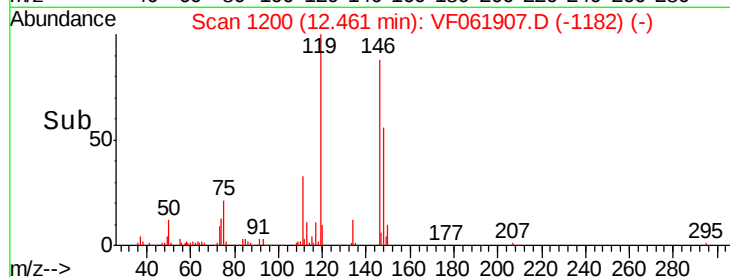
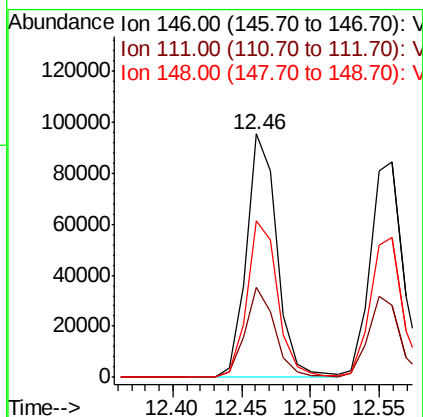
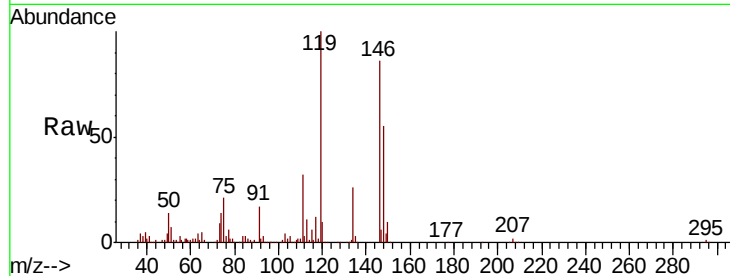
#87
 1,3-Dichlorobenzene
 Concen: 23.345 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	17.0	51.0
148	64.1	32.5	97.5

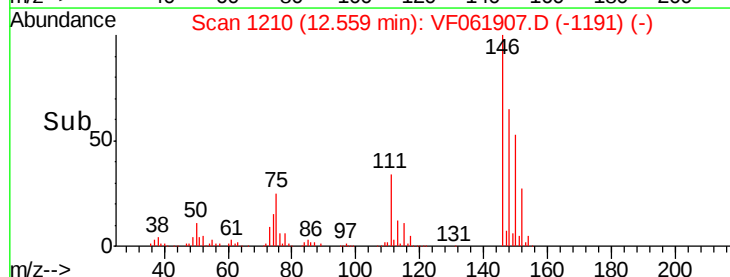
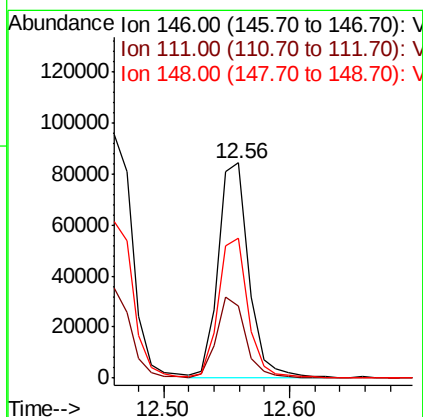
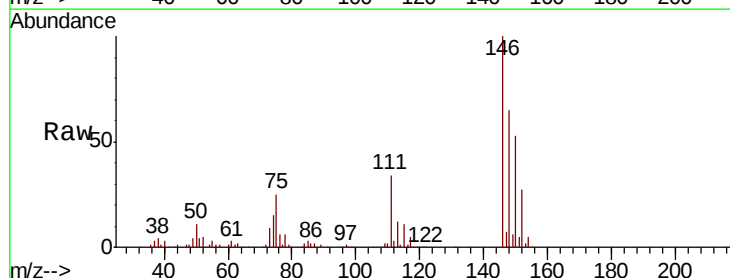
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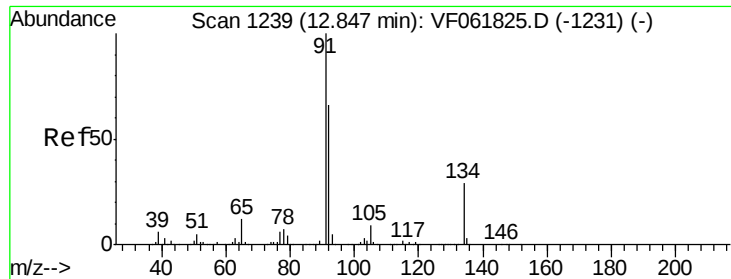
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#88
 1,4-Dichlorobenzene
 Concen: 23.103 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	17.6	52.9
148	64.9	33.5	100.4





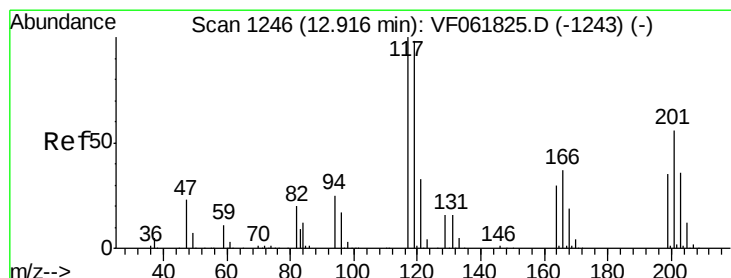
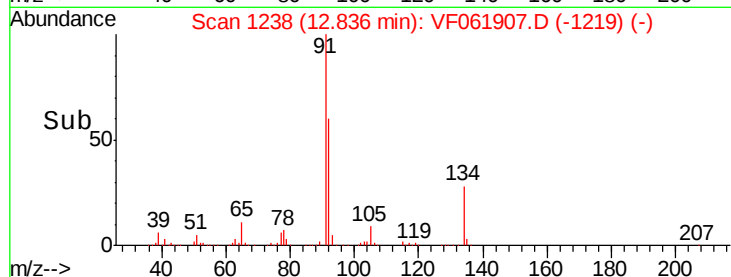
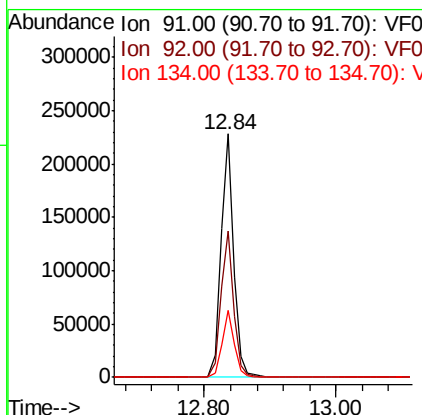
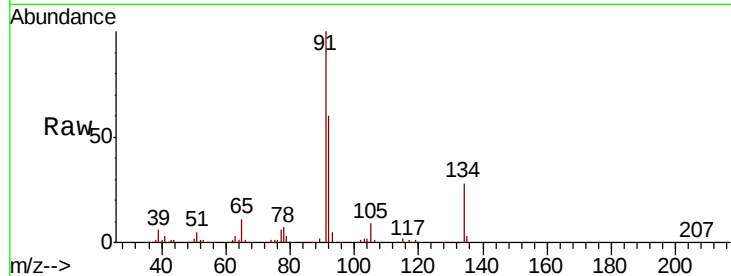
#89
n-Butylbenzene
Concen: 24.268 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	32.9	98.6
134	27.6	14.5	43.6

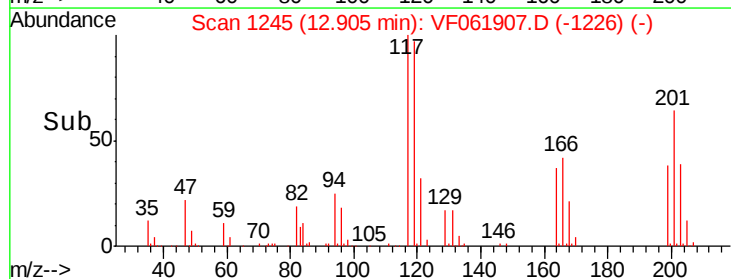
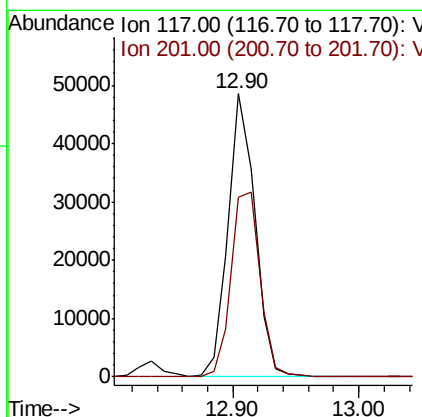
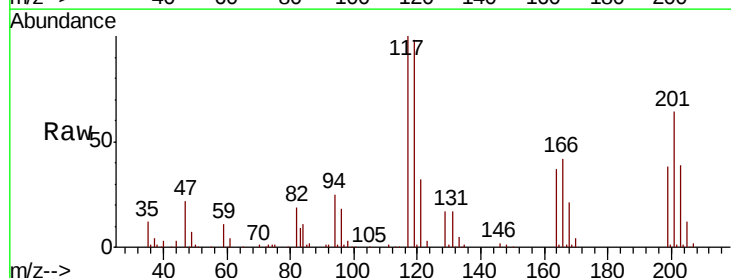
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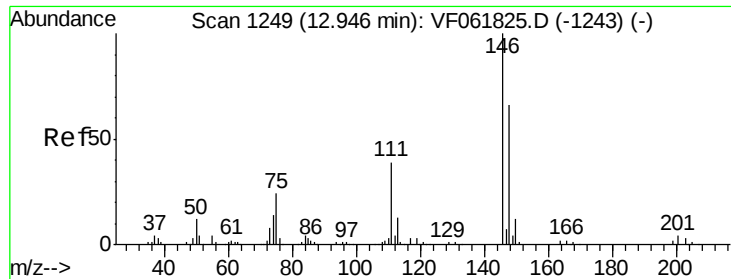
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#90
Hexachloroethane
Concen: 22.748 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.7	27.8	83.4





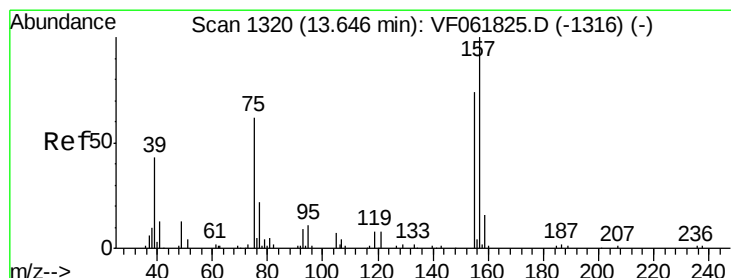
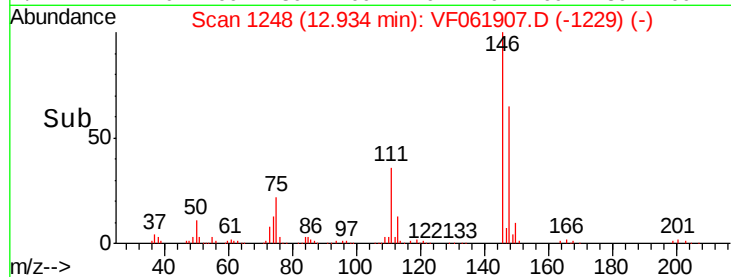
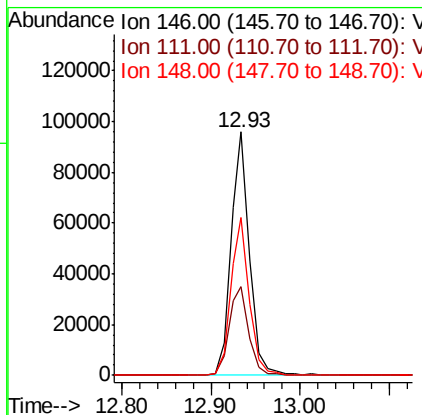
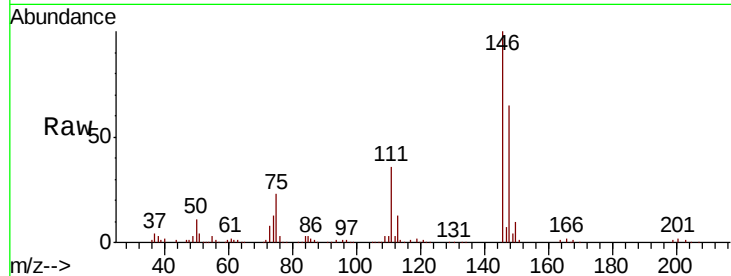
#91
 1,2-Dichlorobenzene
 Concen: 23.305 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	139945		
111	36.4	19.4	58.4	
148	64.7	33.0	98.9	

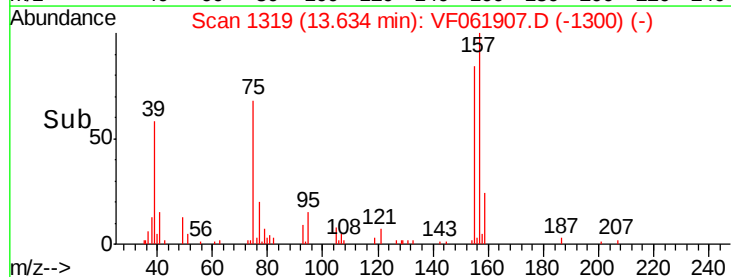
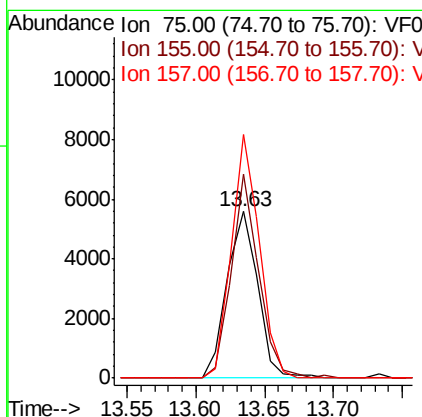
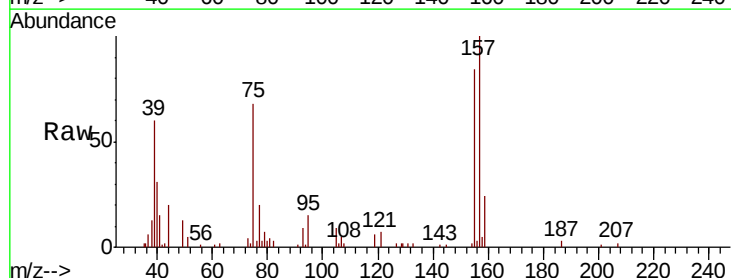
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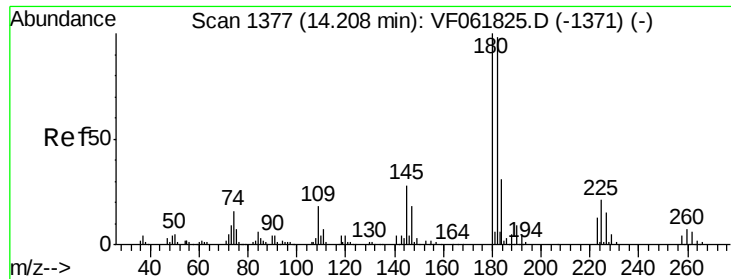
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.825 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8683		
155	122.8	59.8	179.4	
157	146.4	81.2	243.4	





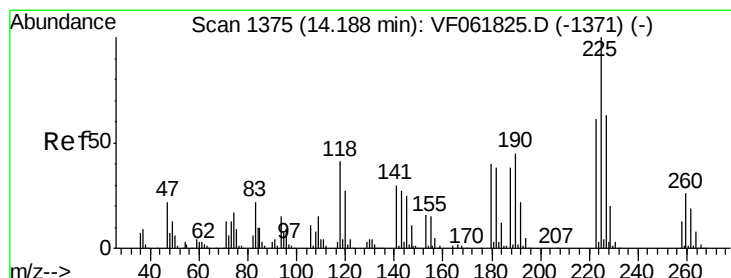
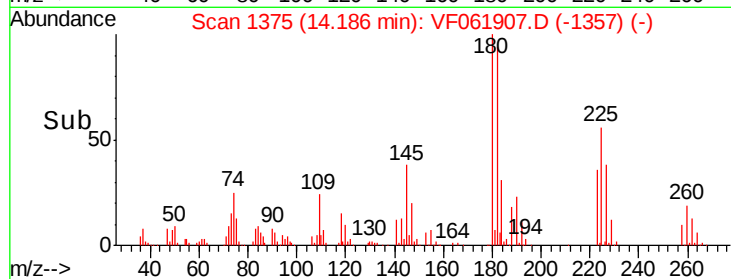
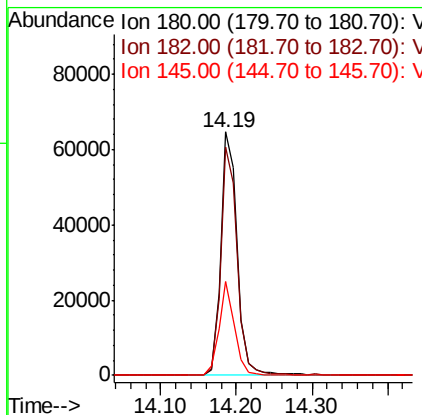
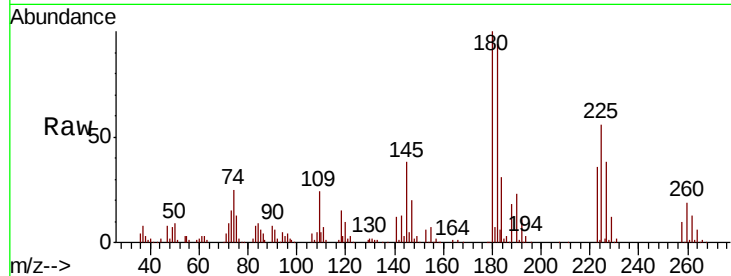
#93
 1,2,4-Trichlorobenzene
 Concen: 23.461 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0312SBSD01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	49.0	147.2
145	38.4	14.1	42.4

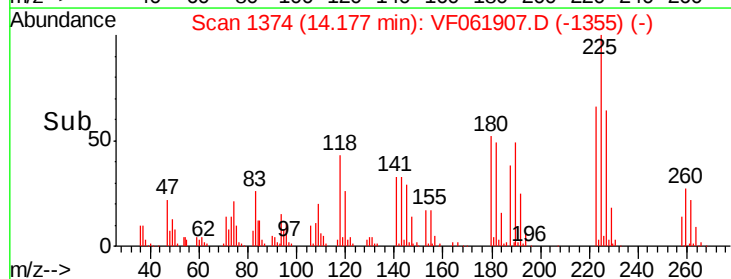
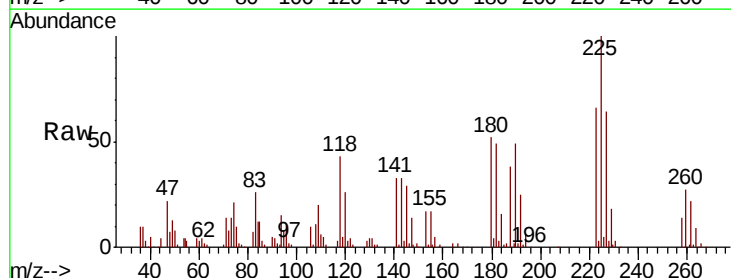
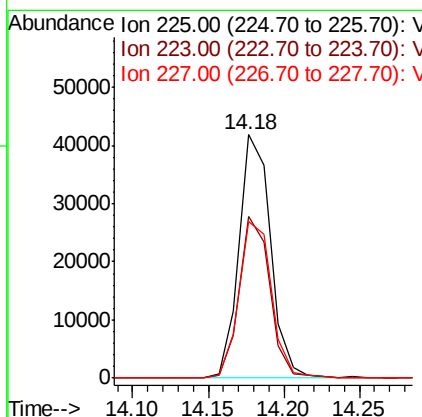
Manual Integrations
 APPROVED

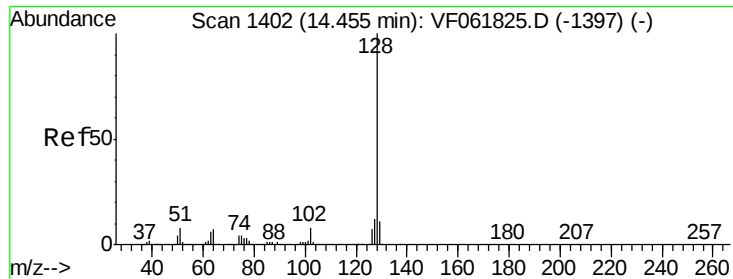
MMDadoda
 3/13/2019 4:41:21 PM



#94
 Hexachlorobutadiene
 Concen: 20.861 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061907.D
 Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.2	30.3	90.9
227	64.2	31.3	93.8





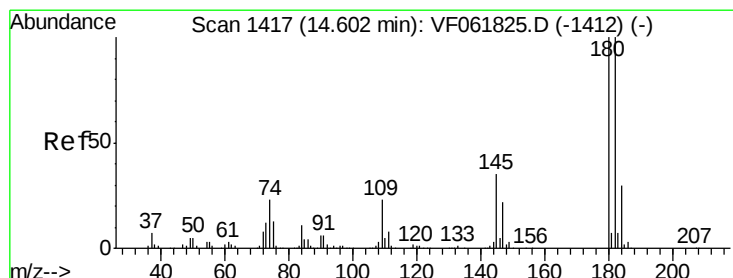
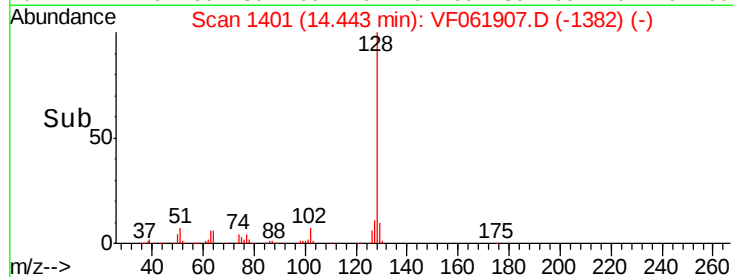
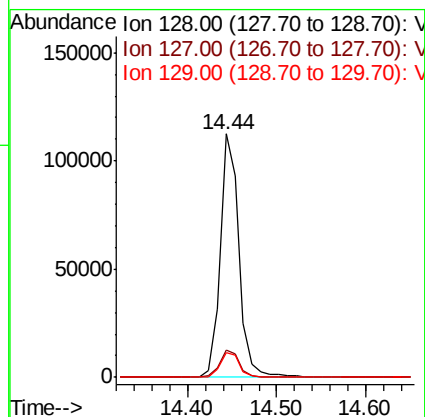
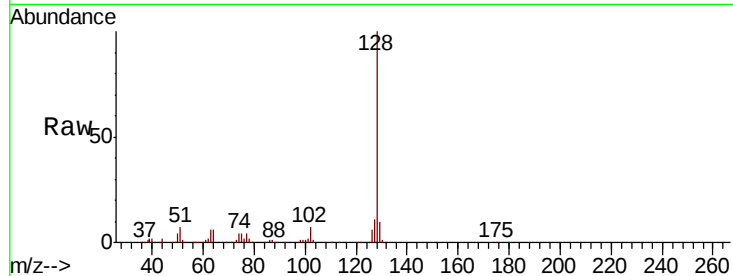
#95
Naphthalene
Concen: 22.087 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
VF0312SBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.3	13.9
129	10.3	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/13/2019 4:41:21 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.992 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF061907.D
Acq: 12 Mar 2019 16:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	50.2	150.7
145	33.1	17.5	52.5

