

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061957.D
 Acq On : 15 Mar 2019 13:19
 Operator : VA/AP
 Sample : VF0315SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/17/2019 5:23:13 AM

Quant Time: Mar 15 23:38:10 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	4.88	168	285902	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	421293	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	365685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	199772	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	106670	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	4.13	113	155150	52.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.54%	
50) Toluene-d8	7.56	98	448450	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
62) 4-Bromofluorobenzene	11.42	95	171537	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	76305	21.739	ug/l	91
3) Chloromethane	1.10	50	76757	22.564	ug/l	94
4) Vinyl Chloride	1.14	62	74668	23.122	ug/l	97
5) Bromomethane	1.35	94	50945	23.149	ug/l	91
6) Chloroethane	1.40	64	34699	22.605	ug/l	96
7) Trichlorofluoromethane	1.49	101	90884	23.044	ug/l	99
8) Diethyl Ether	1.63	74	19464	21.702	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.84	101	64091	23.930	ug/l	95
10) Methyl Iodide	1.91	142	112738m	22.120	ug/l	
11) Tert butyl alcohol	2.58	59	11524	97.515	ug/l	98
12) 1,1-Dichloroethene	1.80	96	54917	22.459	ug/l	86
13) Acrolein	2.01	56	13397	89.467	ug/l	98
14) Allyl chloride	2.11	41	76940	28.562	ug/l	94
15) Acrylonitrile	2.95	53	42492	112.919	ug/l	95
16) Acetone	2.24	43	50970	116.868	ug/l	93
17) Carbon Disulfide	1.83	76	165100	21.692	ug/l	97
18) Methyl Acetate	2.35	43	20828	23.731	ug/l	95
19) Methyl tert-butyl Ether	2.44	73	96582	23.350	ug/l	99
20) Methylene Chloride	2.19	84	59394m	21.517	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	59104	25.683	ug/l	88
22) Diisopropyl ether	2.82	45	161915	23.107	ug/l	97
23) Vinyl Acetate	3.20	43	367043	117.254	ug/l	100
24) 1,1-Dichloroethane	2.89	63	106948	25.535	ug/l	99
25) 2-Butanone	4.35	43	102994	116.097	ug/l	98
26) 2,2-Dichloropropane	3.62	77	44270	23.678	ug/l	90
27) cis-1,2-Dichloroethene	3.49	96	74557	23.385	ug/l	97
28) Bromochloromethane	3.73	49	41856	22.926	ug/l #	100
29) Tetrahydrofuran	4.09	42	42417	110.867	ug/l	100
30) Chloroform	3.87	83	105204	21.991	ug/l	97
31) Cyclohexane	3.69	56	98537	22.462	ug/l	97
32) 1,1,1-Trichloroethane	4.11	97	69853	23.689	ug/l #	93
36) 1,1-Dichloropropene	4.30	75	91360	22.957	ug/l	96
37) Ethyl Acetate	4.12	43	36169	21.653	ug/l #	87
38) Carbon Tetrachloride	4.00	117	69372	24.625	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	109926	23.386	ug/l	97
40) Benzene	4.65	78	238849	22.961	ug/l	97
41) Methacrylonitrile	4.77	41	21499	23.492	ug/l #	86
42) 1,2-Dichloroethane	4.96	62	57374	22.132	ug/l	99
43) Isopropyl Acetate	6.97	43	45596	22.145	ug/l #	99
44) Trichloroethene	5.52	130	73076	22.605	ug/l	97
45) 1,2-Dichloropropane	6.25	63	56843	22.980	ug/l	97
46) Dibromomethane	6.10	93	34409	22.103	ug/l	88
47) Bromodichloromethane	6.40	83	74968	21.798	ug/l	100
48) Methyl methacrylate	6.73	41	29979	23.006	ug/l	99
49) 1,4-Dioxane	6.72	88	4518	379.276	ug/l #	28
51) 4-Methyl-2-Pentanone	8.27	43	161912	113.778	ug/l	98
52) Toluene	7.64	92	144935	23.553	ug/l	100
53) t-1,3-Dichloropropene	8.29	75	64713	22.795	ug/l	95
54) cis-1,3-Dichloropropene	7.31	75	85989	21.959	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	41005	23.127	ug/l	95
56) Ethyl methacrylate	8.63	69	43113	21.576	ug/l	93
57) 1,3-Dichloropropane	8.86	76	65482	22.583	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	38503	121.808	ug/l	99
59) 2-Hexanone	9.50	43	117860	114.805	ug/l	100
60) Dibromochloromethane	8.72	129	56264	22.265	ug/l	94
61) 1,2-Dibromoethane	9.00	107	42712	21.906	ug/l	99
64) Tetrachloroethene	8.16	164	63997	22.776	ug/l	92
65) Chlorobenzene	9.81	112	154894	22.047	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.94	131	59195	21.747	ug/l	96
67) Ethyl Benzene	9.91	91	263416	22.621	ug/l	95
68) m/p-Xylenes	10.14	106	204987	45.952	ug/l	98
69) o-Xylene	10.72	106	108781	22.646	ug/l	98
70) Styrene	10.79	104	151446	22.403	ug/l	96
71) Bromoform	10.78	173	30568	21.248	ug/l #	90
73) Isopropylbenzene	11.13	105	308151	22.406	ug/l	96
74) N-amyl acetate	11.38	43	71745	22.660	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.70	83	49873	21.818	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	36778	23.574	ug/l	96
77) Bromobenzene	11.50	156	71999	21.752	ug/l	90
78) n-propylbenzene	11.60	91	364698	23.481	ug/l	97
79) 2-Chlorotoluene	11.73	91	202988	22.860	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	252369	22.855	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	16213m	22.727	ug/l	
82) 4-Chlorotoluene	11.91	91	201605	22.197	ug/l	97
83) tert-Butylbenzene	12.13	119	277136	23.636	ug/l	91
84) 1,2,4-Trimethylbenzene	12.21	105	250757	23.165	ug/l	100
85) sec-Butylbenzene	12.31	105	352971	23.133	ug/l	99
86) p-Isopropyltoluene	12.47	119	295247	22.764	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	146794	23.356	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	136856	22.574	ug/l	95
89) n-Butylbenzene	12.85	91	298890	24.114	ug/l	95
90) Hexachloroethane	12.92	117	68235	21.857	ug/l	83
91) 1,2-Dichlorobenzene	12.94	146	131580	22.097	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7007	20.090	ug/l	71

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ClientSampleId :
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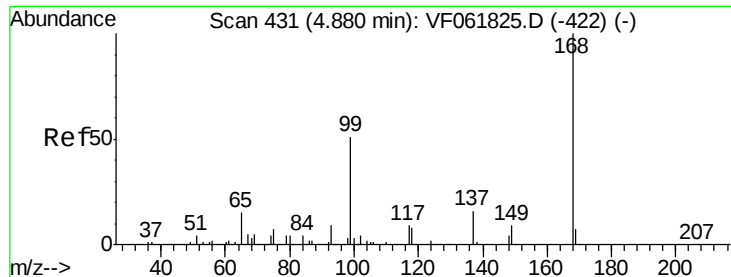
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	92383	22.130	ug/l	97
94) Hexachlorobutadiene	14.20	225	60247	20.847	ug/l	97
95) Naphthalene	14.46	128	158232	21.281	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	80474	20.878	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBSD01

Tot Ion:168 Resp: 285902

Ion Ratio Lower Upper

168 100

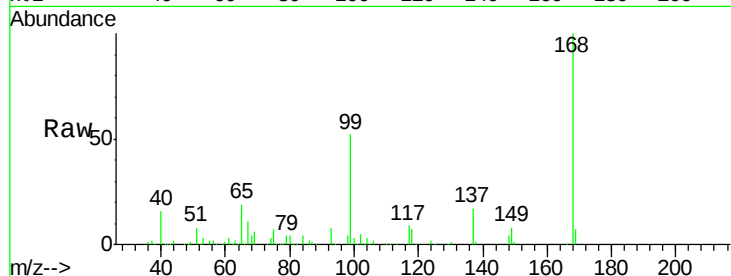
99 51.8 40.8 61.2

Manual Integrations

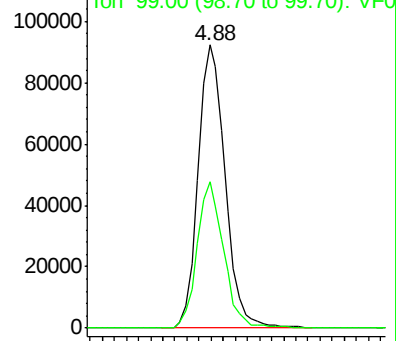
APPROVED

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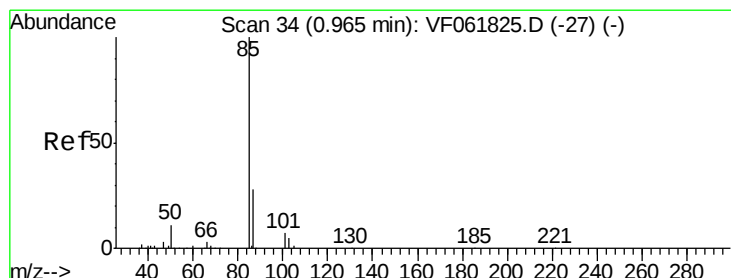
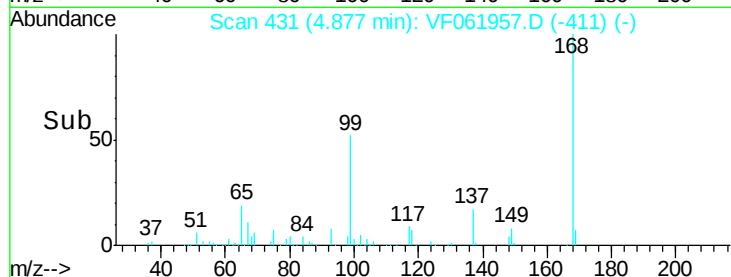
3/17/2019 5:23:13 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0



Time-->



#2

Dichlorodifluoromethane

Concen: 21.739 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061957.D

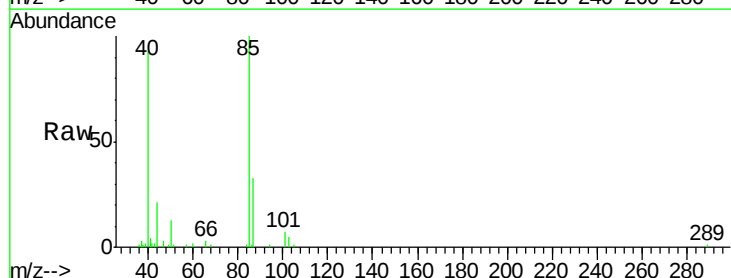
Acq: 15 Mar 2019 13:19

Tgt Ion: 85 Resp: 76305

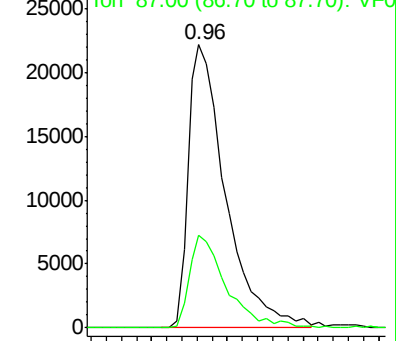
Ion Ratio Lower Upper

85 100

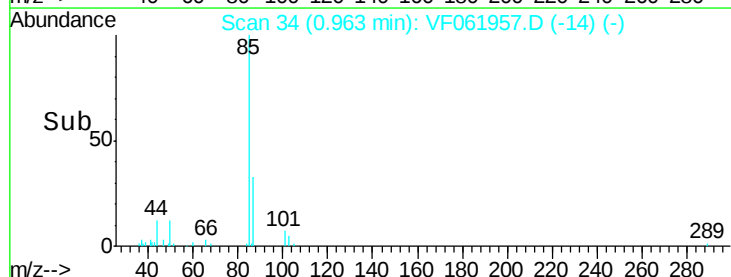
87 32.9 14.1 42.2

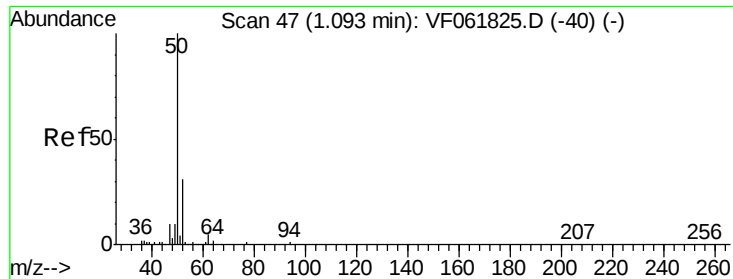


Abundance Ion 85.00 (84.70 to 85.70): VF0



Time-->





#3

Chloromethane

Concen: 22.564 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 50 Resp: 76757

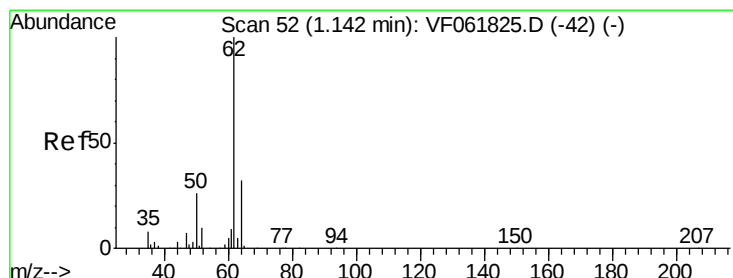
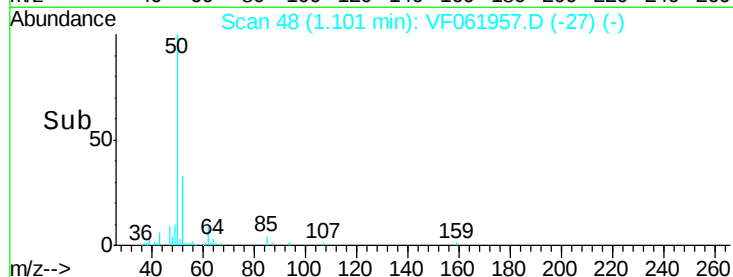
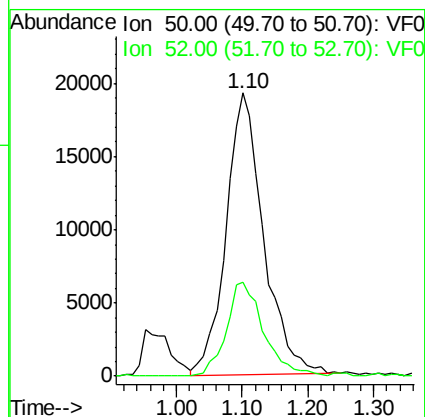
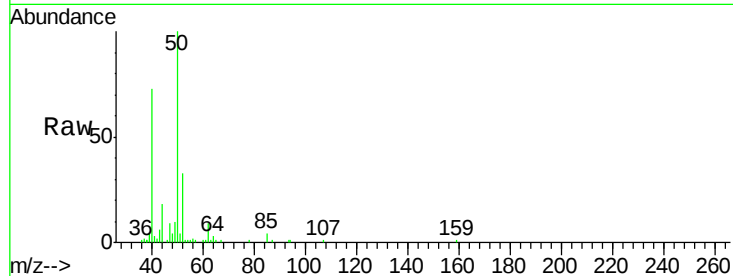
Ion Ratio Lower Upper

50 100

52 33.0 23.8 35.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 23.122 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061957.D

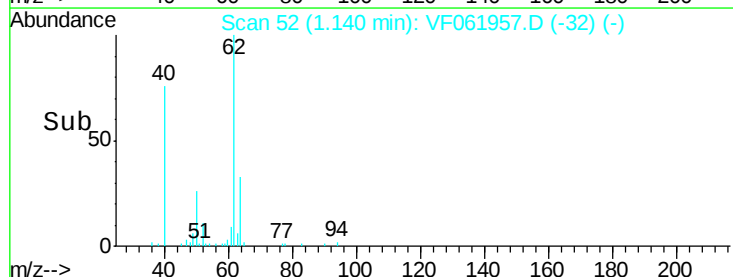
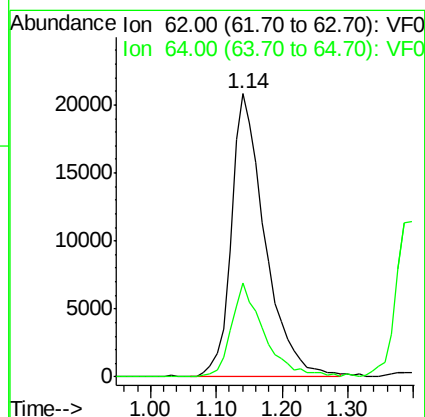
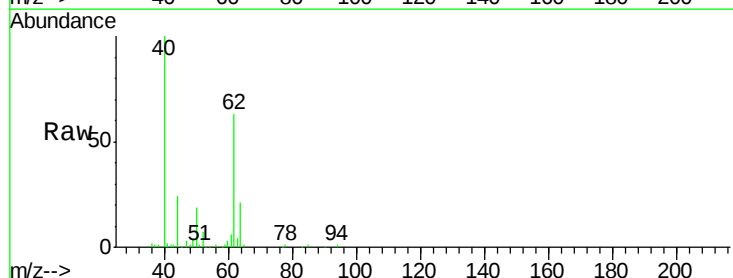
Acq: 15 Mar 2019 13:19

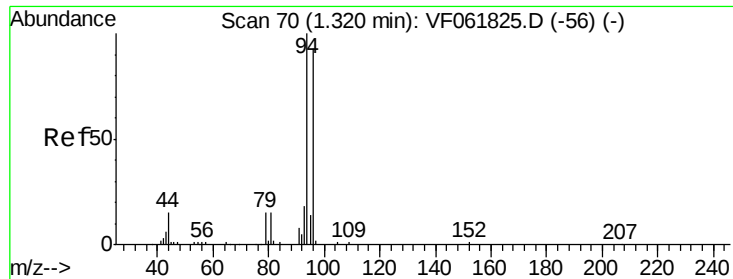
Tgt Ion: 62 Resp: 74668

Ion Ratio Lower Upper

62 100

64 33.2 25.2 37.8





#5

Bromomethane

Concen: 23.149 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.03 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 94 Resp: 50945

Ion Ratio Lower Upper

94 100

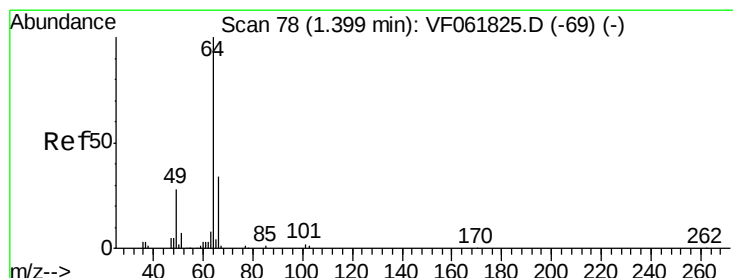
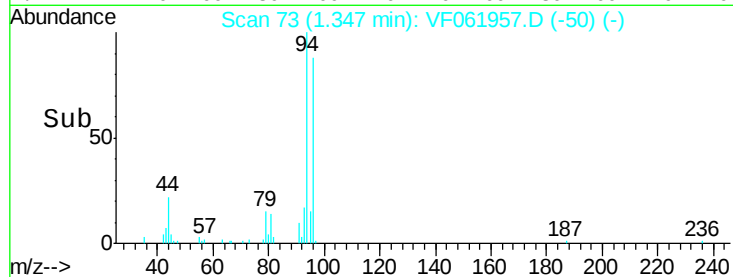
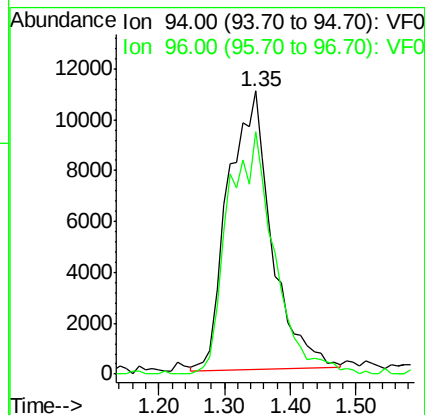
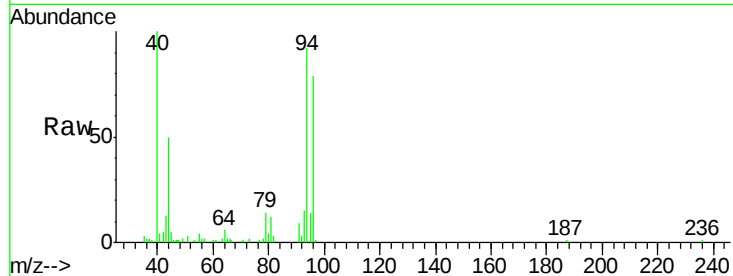
96 85.8 75.2 112.8

Manual Integrations

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#6

Chloroethane

Concen: 22.605 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061957.D

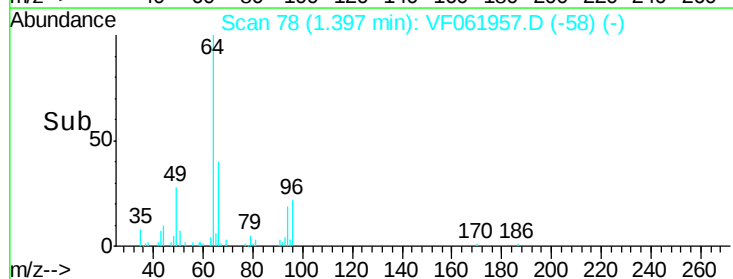
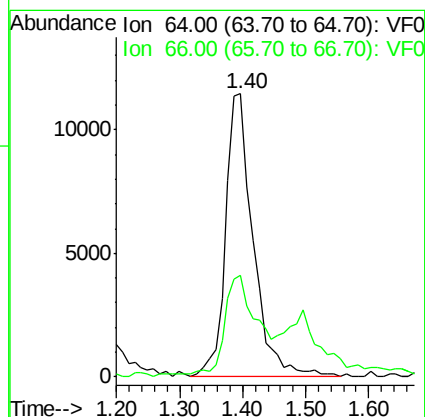
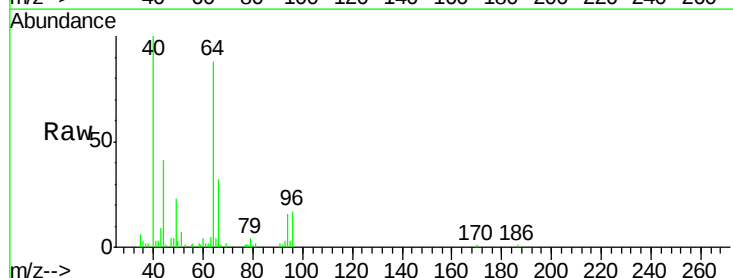
Acq: 15 Mar 2019 13:19

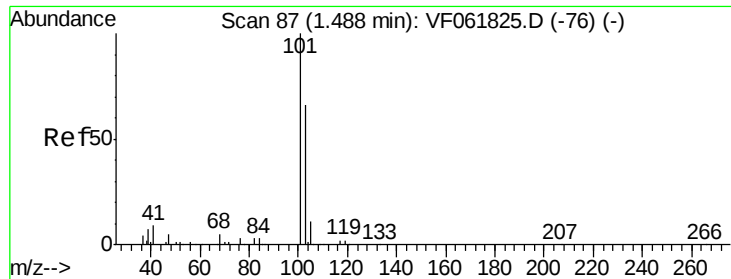
Tgt Ion: 64 Resp: 34699

Ion Ratio Lower Upper

64 100

66 36.0 27.0 40.4





#7

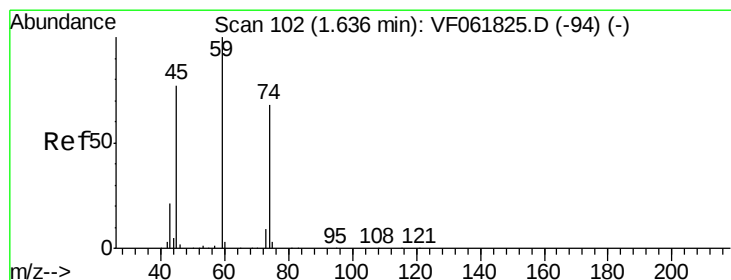
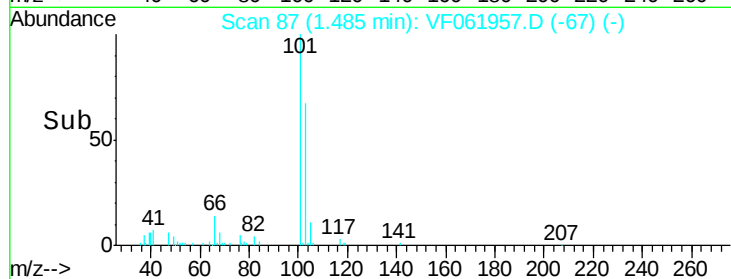
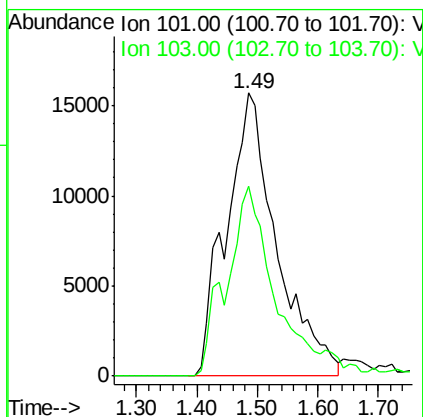
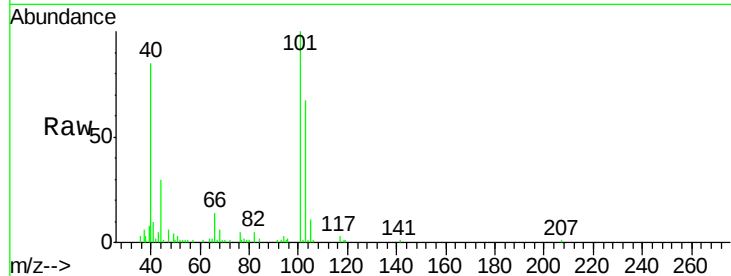
Trichlorofluoromethane
Concen: 23.044 ug/l
RT: 1.49 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.8	79.2

Manual Integrations
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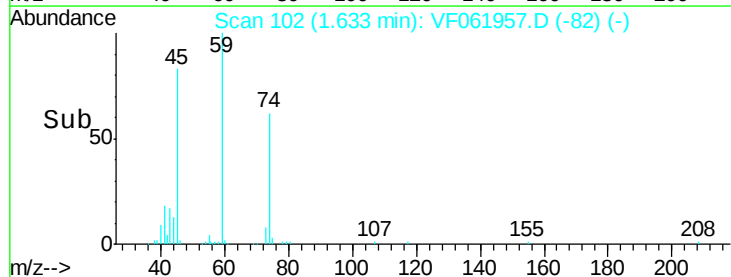
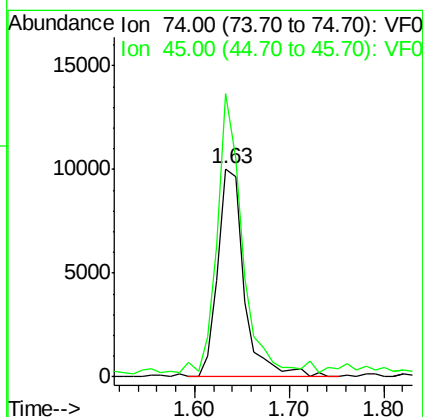
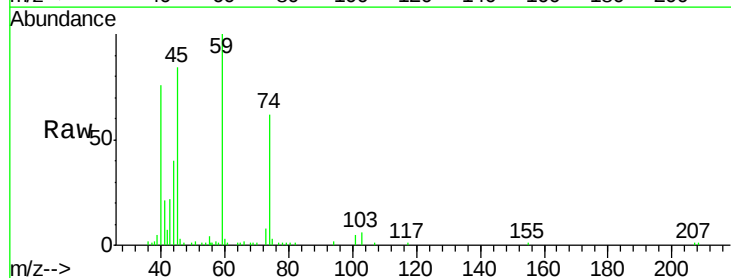
MMDadoda
3/17/2019 5:23:13 AM

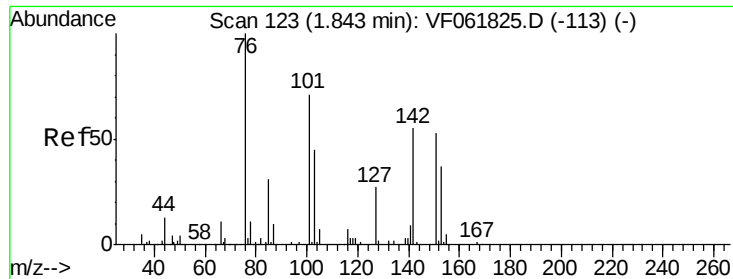


#8

Diethyl Ether
Concen: 21.702 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	136.1	57.2	171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.930 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

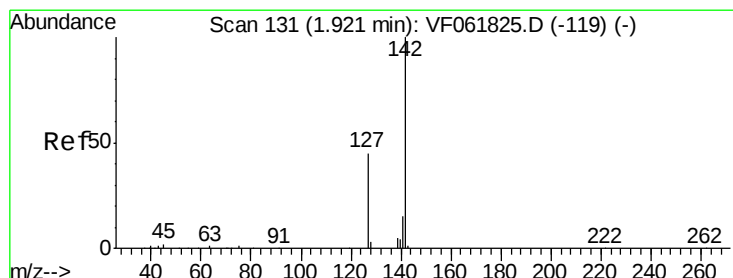
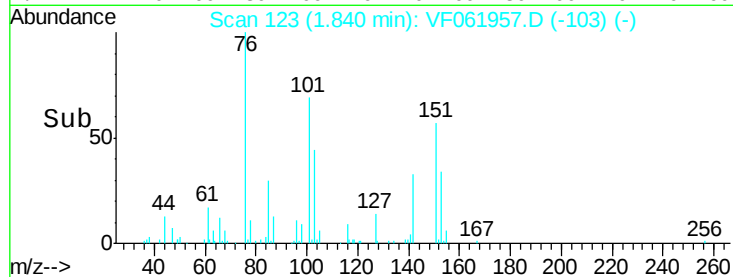
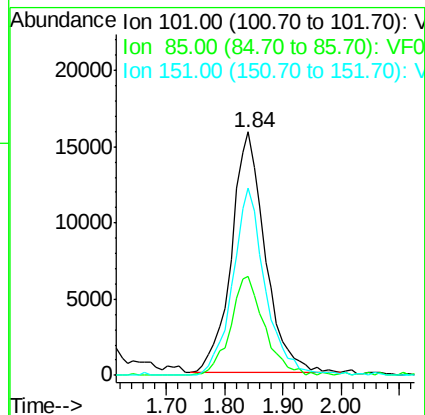
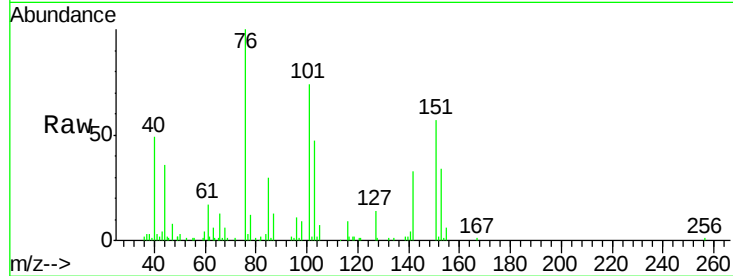
ClientSampleId :

VF0315SBS01

Tot Ion:	101	Resp:	64091
Ion Ratio	Lower	Upper	
101	100		
85	40.5	34.0	51.0
151	77.0	57.3	85.9

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#10

Methyl Iodide

Concen: 22.120 ug/l m

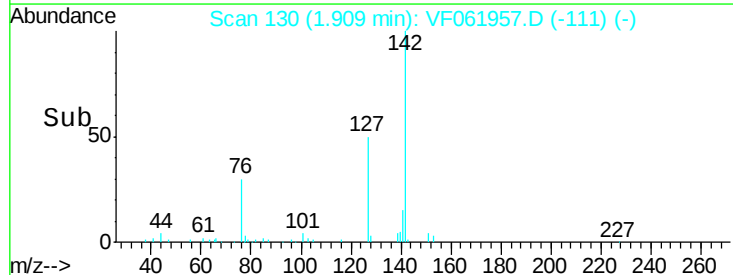
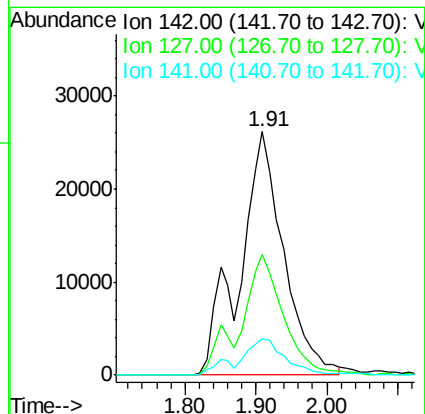
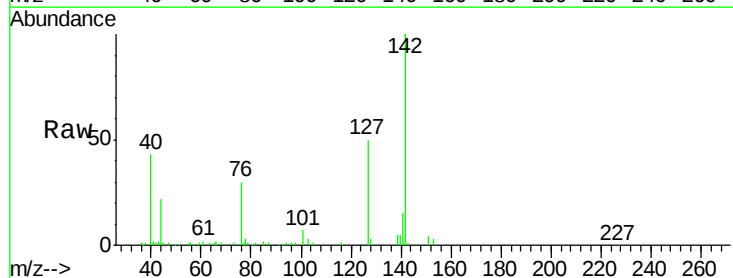
RT: 1.91 min Scan# 130

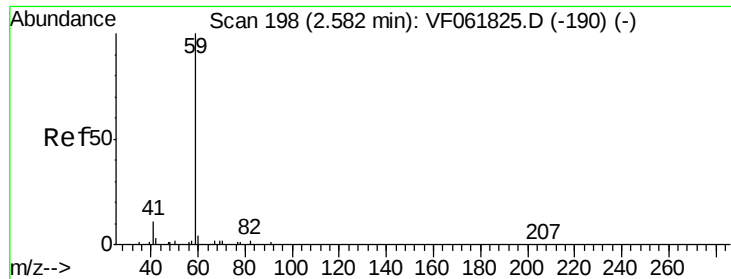
Delta R.T. -0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	142	Resp:	112738
Ion Ratio	Lower	Upper	
142	100		
127	49.6	35.8	53.6
141	15.1	11.7	17.5





#11

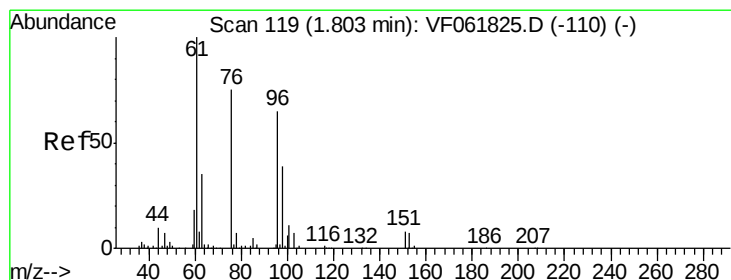
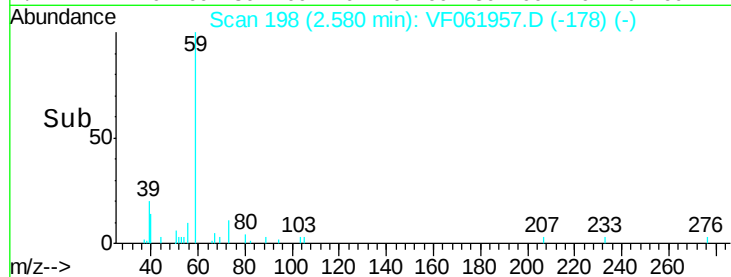
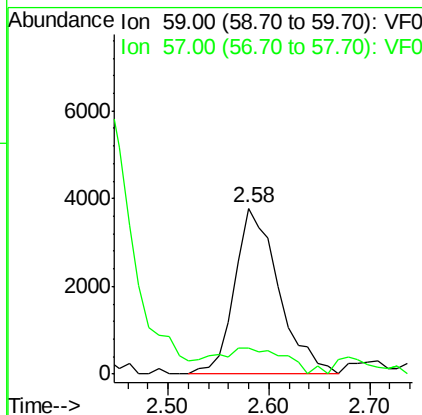
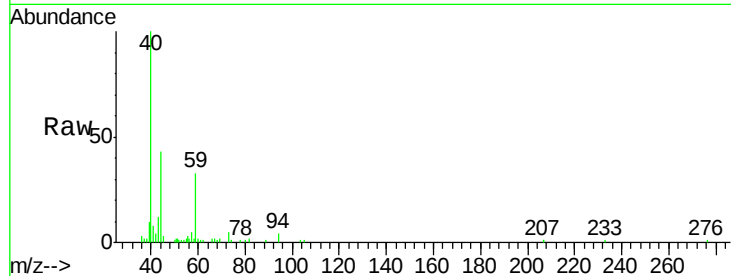
Tert butyl alcohol
 Concen: 97.515 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	59	Resp	11524
Ion Ratio	Lower	Upper	
59	100		
57	15.7	11.8	17.6

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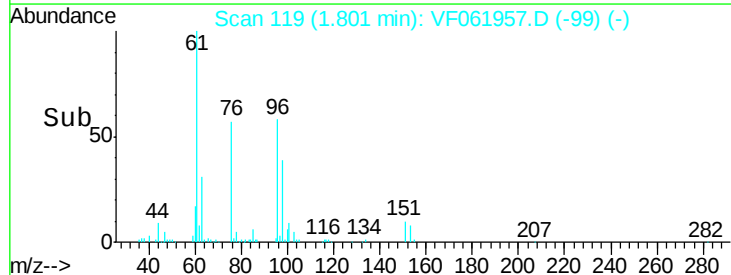
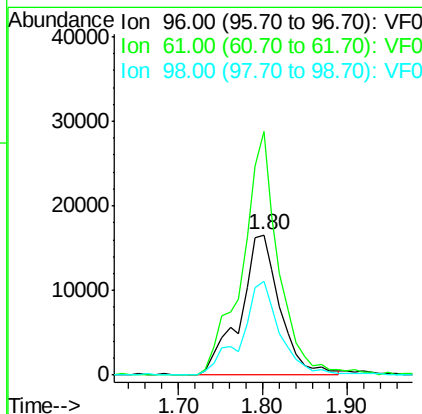
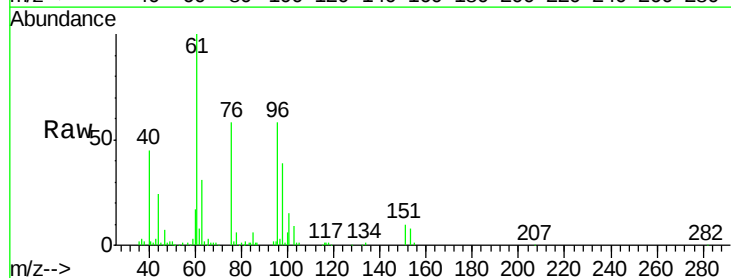
MMDadoda
 3/17/2019 5:23:13 AM

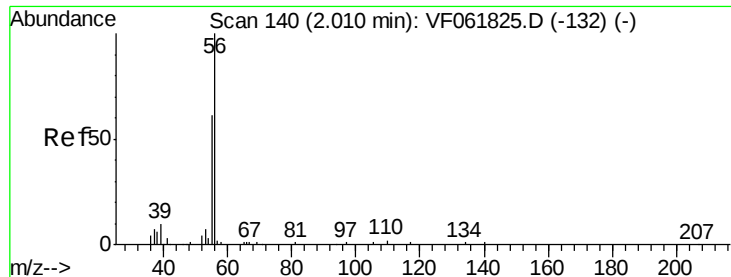


#12

1,1-Dichloroethene
 Concen: 22.459 ug/l
 RT: 1.80 min Scan# 119
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	96	Resp	54917
Ion Ratio	Lower	Upper	
96	100		
61	173.3	122.5	183.7
98	67.1	47.1	70.7





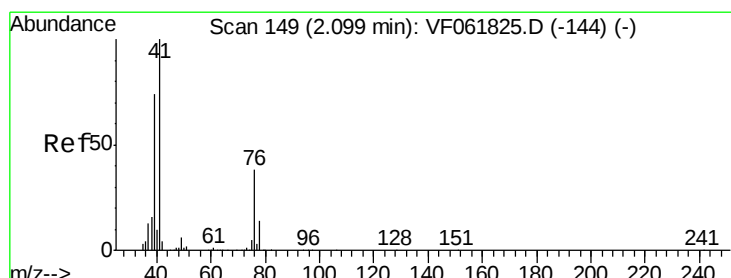
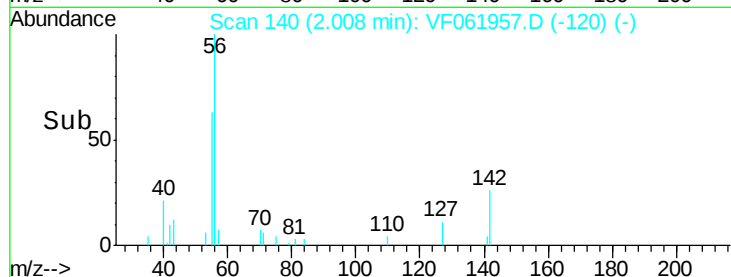
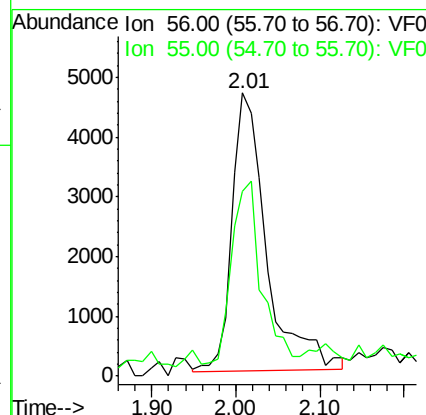
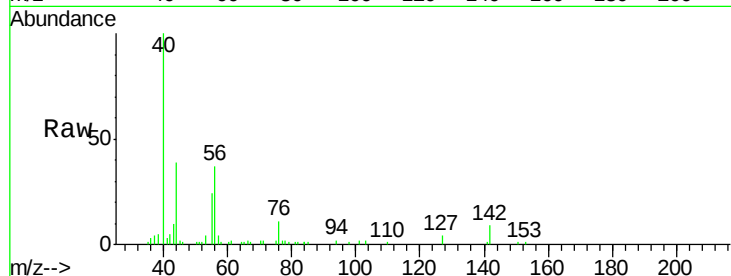
#13
Acrolein
Concen: 89.467 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	56	Resp	13397
Ion Ratio	100	Lower	Upper
55	65.3	51.3	76.9

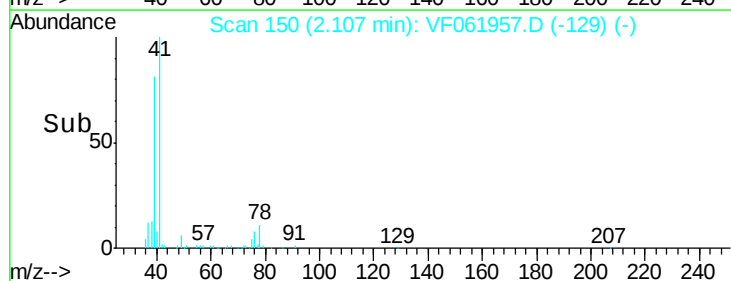
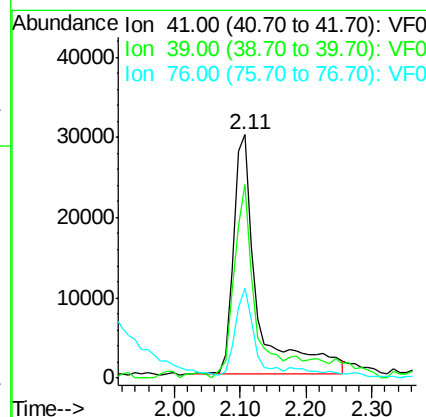
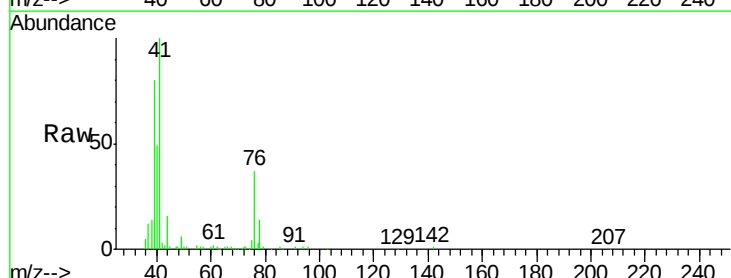
Manual Integrations
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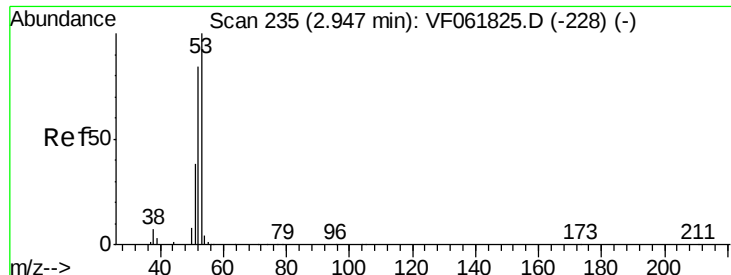
MMDadoda
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#14
Allyl chloride
Concen: 28.562 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	41	Resp	76940
Ion Ratio	100	Lower	Upper
39	79.8	59.6	89.4
76	36.9	32.3	48.5





#15

Acrylonitrile

Concen: 112.919 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

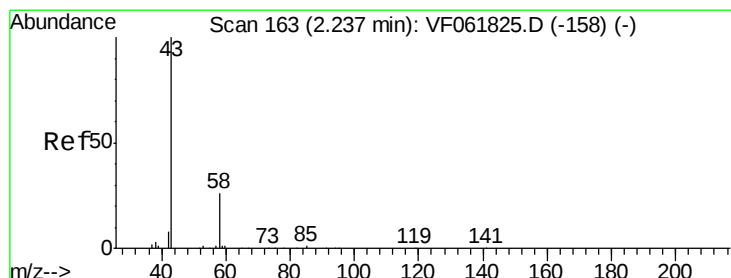
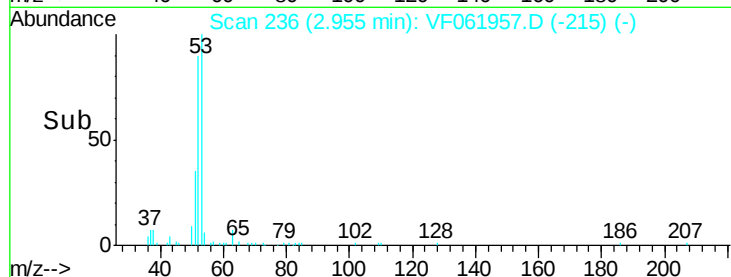
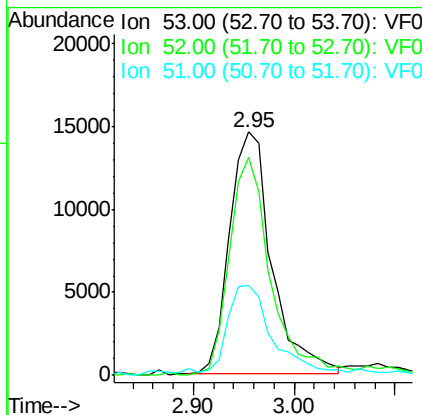
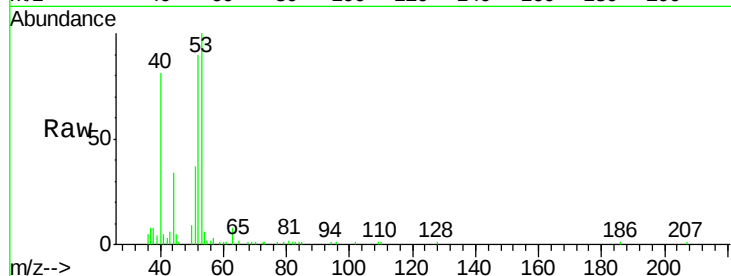
ClientSampleId :

VF0315SBS01

Tot Ion:	53	Resp:	42492
Ion	Ratio	Lower	Upper
53	100		
52	89.7	67.4	101.0
51	36.9	30.7	46.1

Manual Integrations
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3/17/2019 5:23:13 AM



#16

Acetone

Concen: 116.868 ug/l

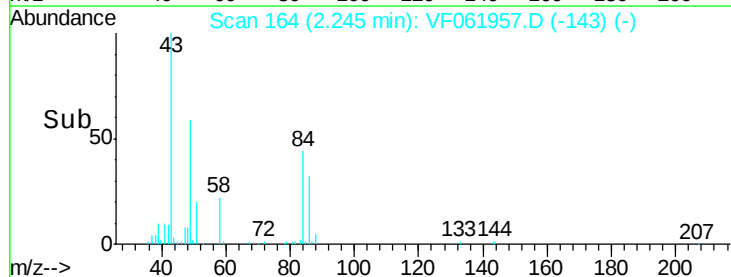
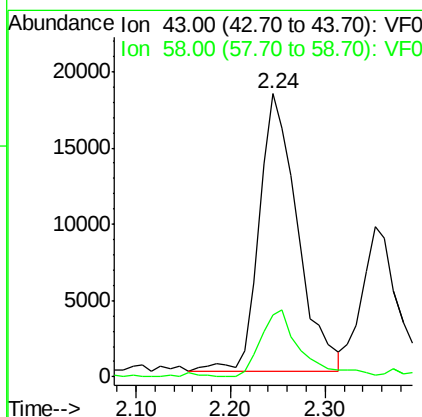
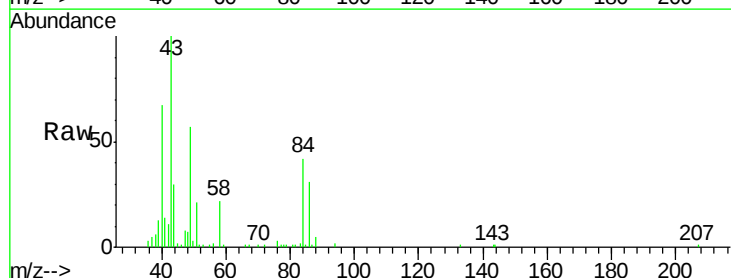
RT: 2.24 min Scan# 164

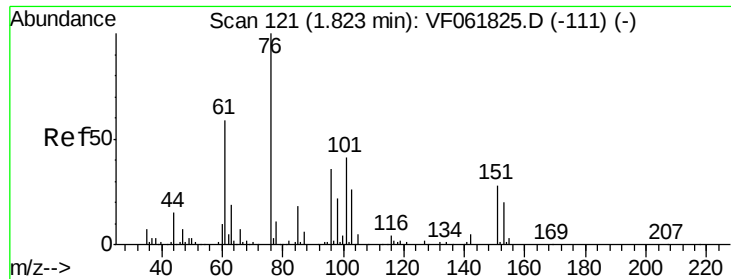
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	43	Resp:	50970
Ion	Ratio	Lower	Upper
43	100		
58	22.0	20.3	30.5





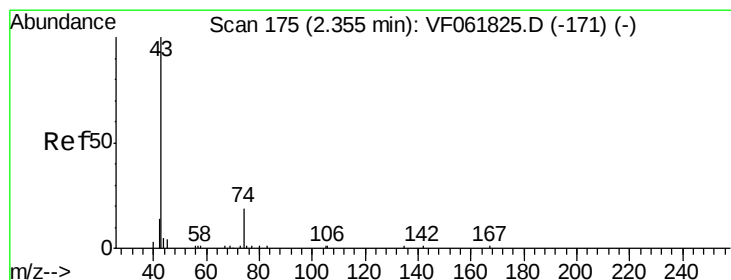
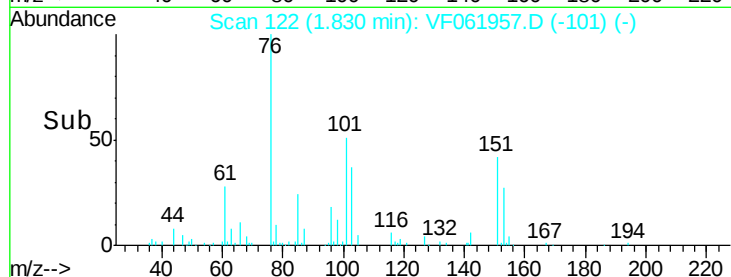
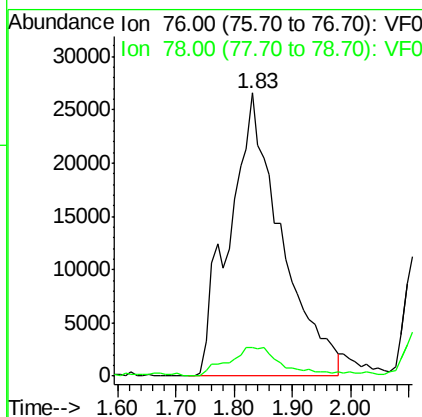
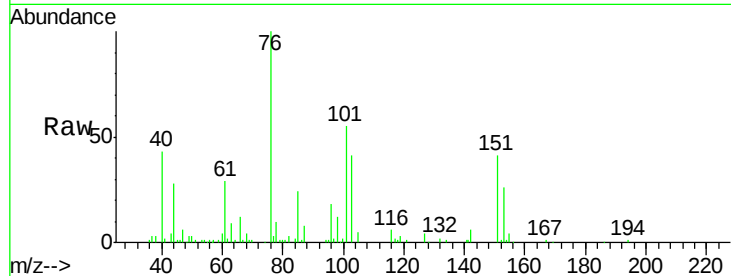
#17
Carbon Disulfide
Concen: 21.692 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

Tot Ion: 76 Resp: 165100
Ion Ratio Lower Upper
76 100
78 10.2 9.1 13.7

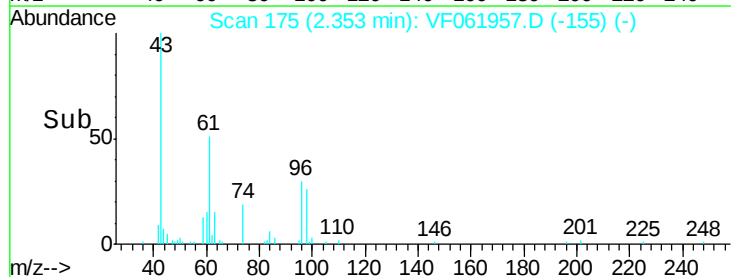
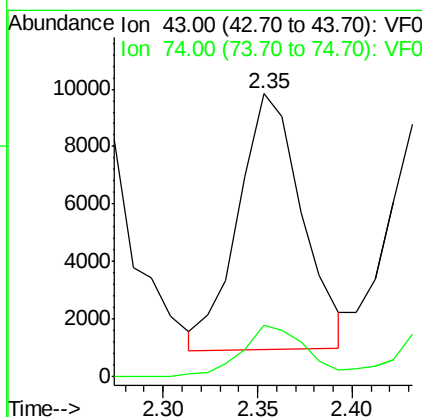
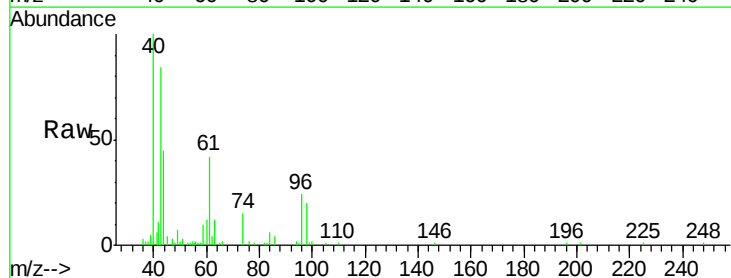
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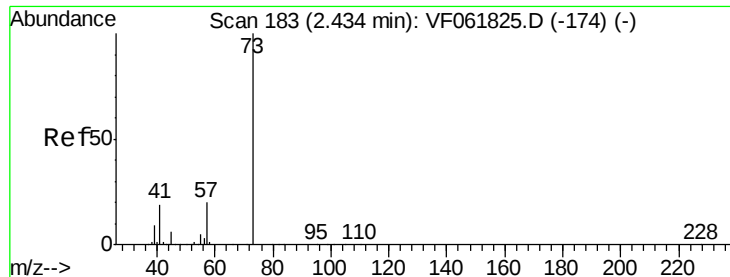
MMDadoda
3/17/2019 5:23:13 AM



#18
Methyl Acetate
Concen: 23.731 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 43 Resp: 20828
Ion Ratio Lower Upper
43 100
74 18.4 13.2 19.8





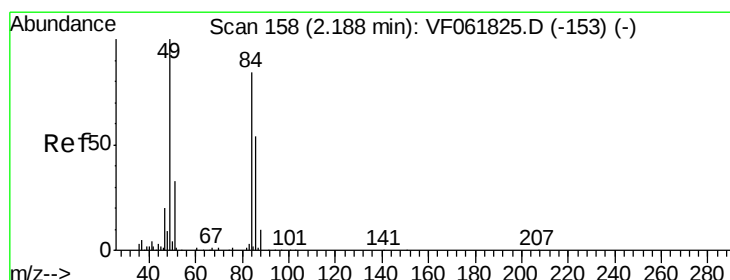
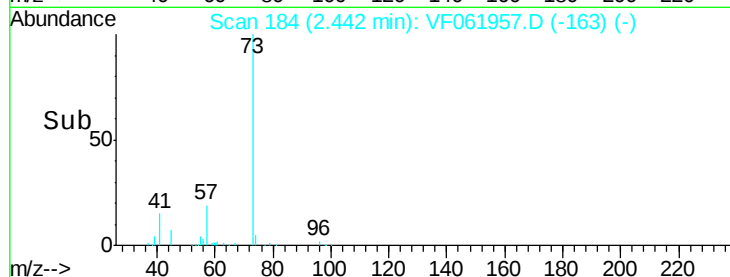
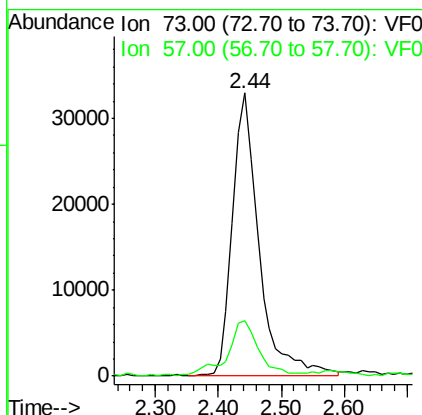
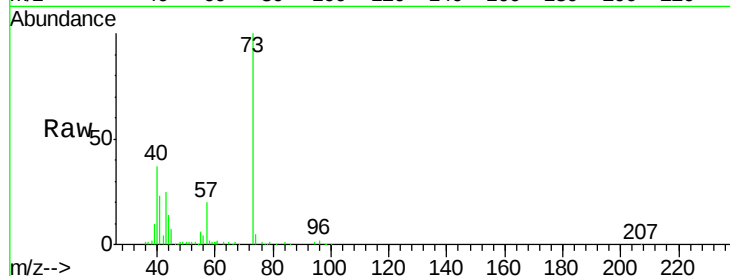
#19
Methvl tert-butvl Ether
Concen: 23.350 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.6	16.1	24.1

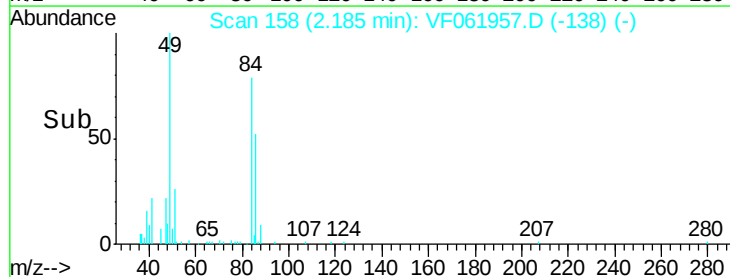
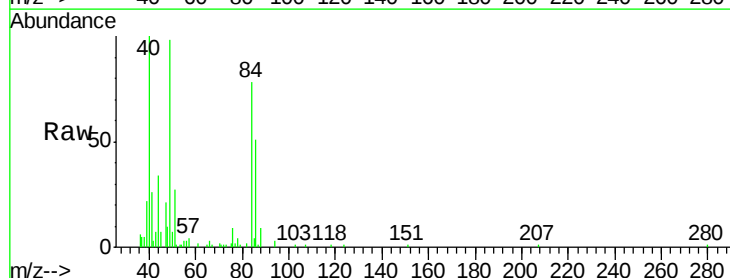
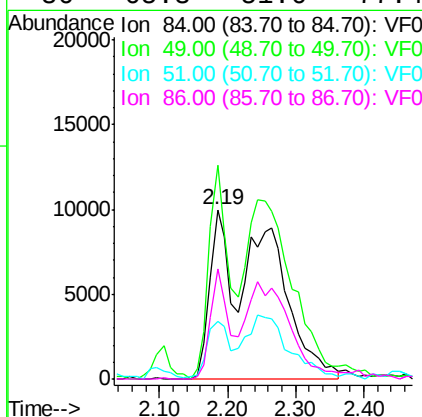
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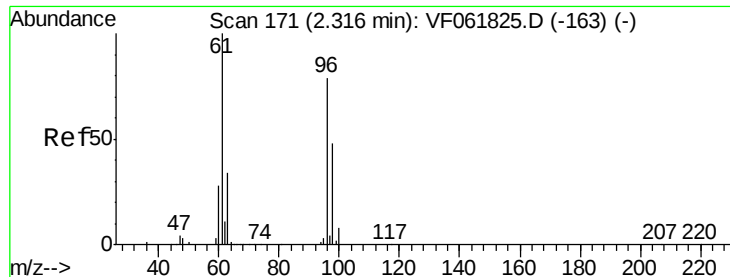
MMDadoda
3/17/2019 5:23:13 AM



#20
Methylene Chloride
Concen: 21.517 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.3	96.8	145.2
51	34.4	31.8	47.6
86	65.3	51.6	77.4





#21

trans-1,2-Dichloroethene

Concen: 25.683 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

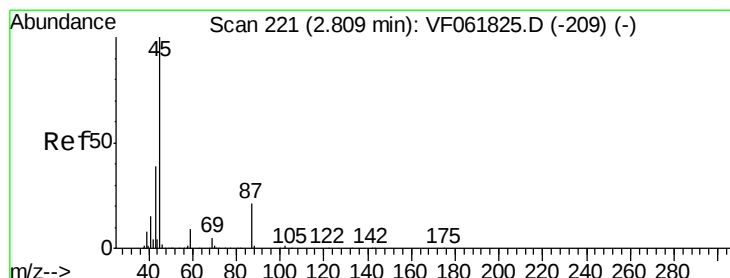
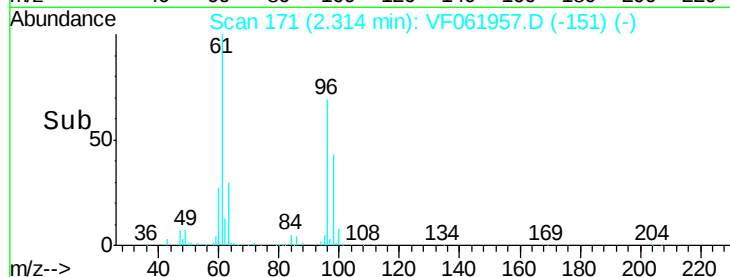
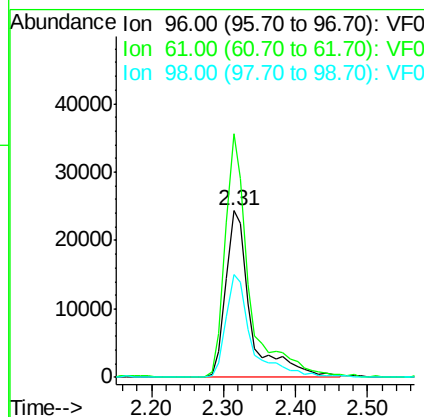
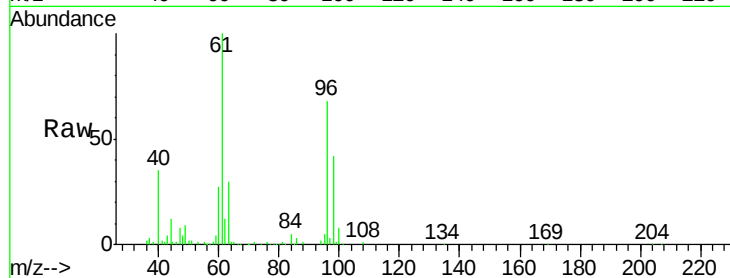
ClientSampleId :

VF0315SBS01

Tot Ion:	96	Resp:	59104
Ion	Ratio	Lower	Upper
96	100		
61	146.2	101.0	151.6
98	61.9	48.8	73.2

Manual Integrations
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3/17/2019 5:23:13 AM



#22

Diisopropyl ether

Concen: 23.107 ug/l

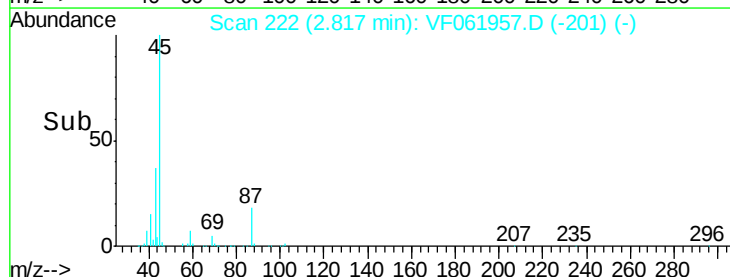
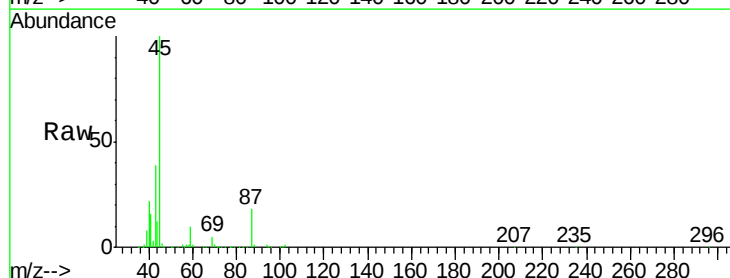
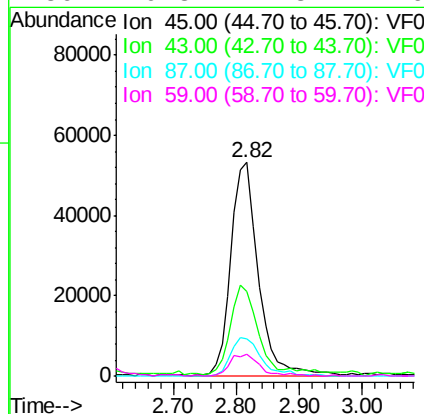
RT: 2.82 min Scan# 222

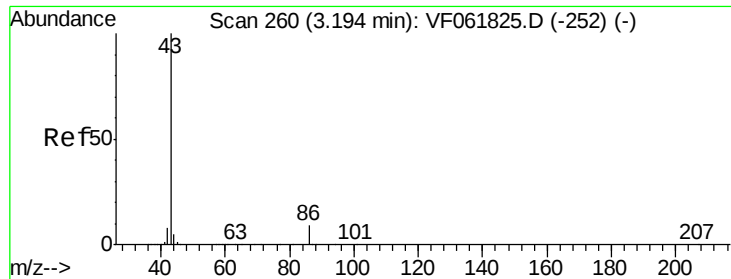
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	45	Resp:	161915
Ion	Ratio	Lower	Upper
45	100		
43	39.3	31.8	47.8
87	17.6	17.1	25.7
59	10.3	7.8	11.6





#23

Vinyl Acetate

Concen: 117.254 ug/l

RT: 3.20 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 43 Resp: 367043

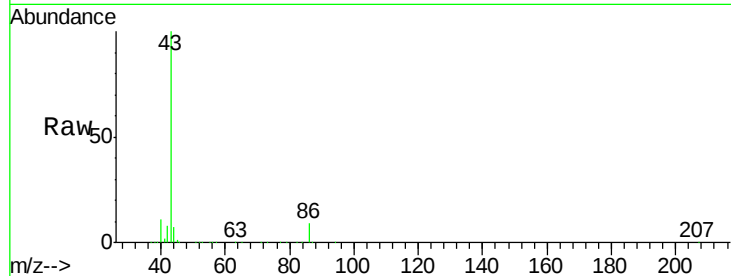
Ion Ratio Lower Upper

43 100

86 8.7 7.0 10.4

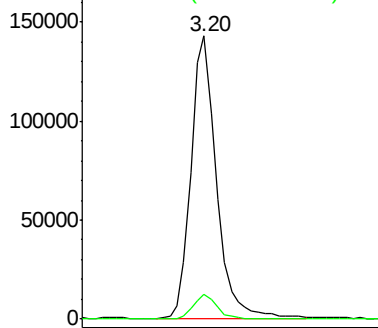
Manual Integrations
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MMDadoda
3/17/2019 5:23:13 AM

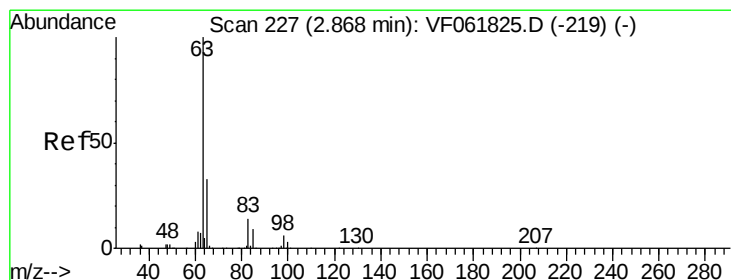
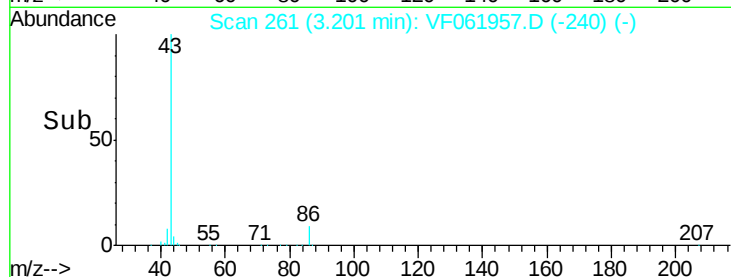


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 25.535 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

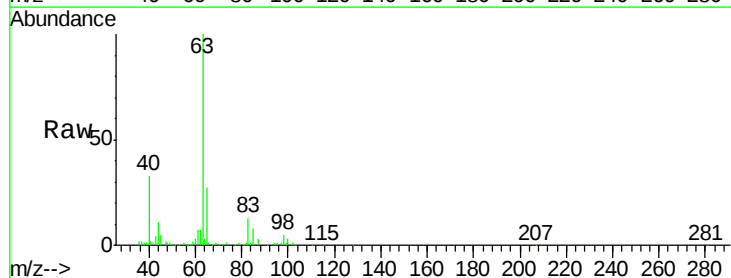
Tgt Ion: 63 Resp: 106948

Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.6

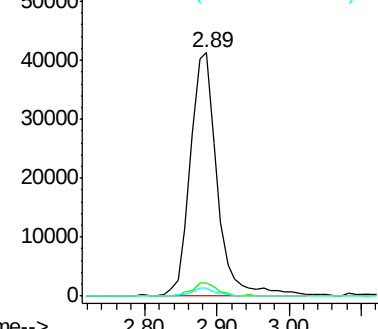
100 3.3 1.8 5.3



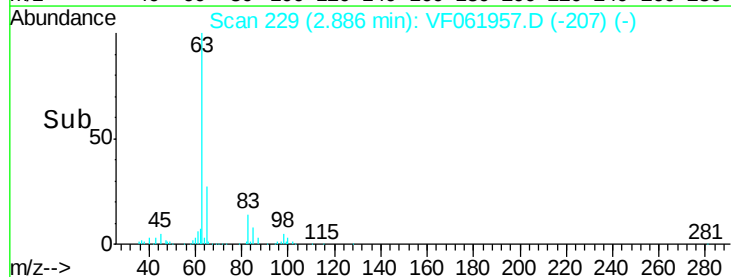
Abundance Ion 63.00 (62.70 to 63.70): VF0

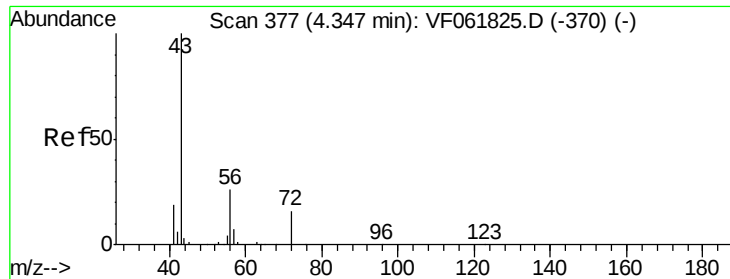
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 116.097 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 43 Resp: 102994

Ion Ratio Lower Upper

43 100

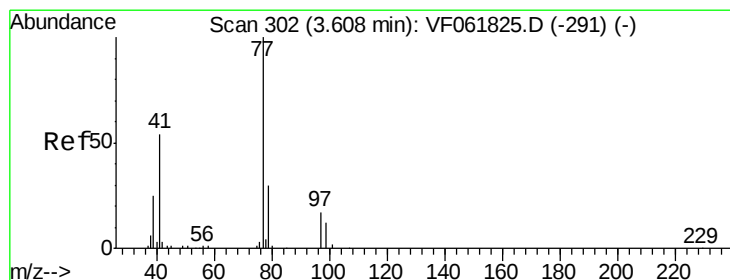
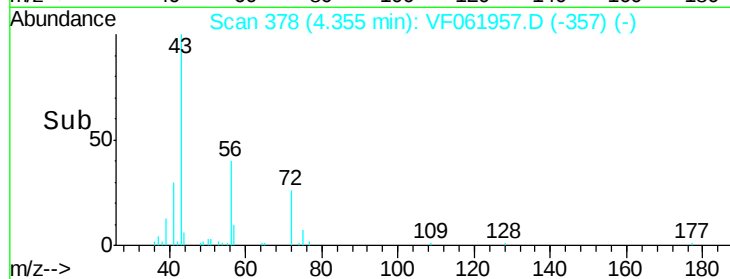
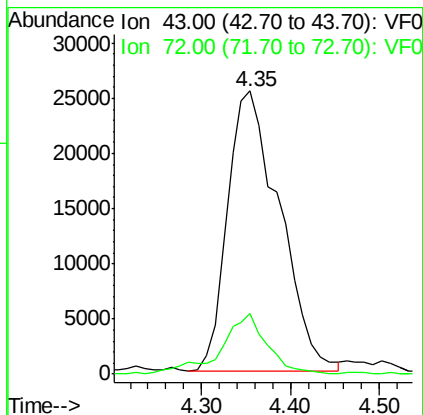
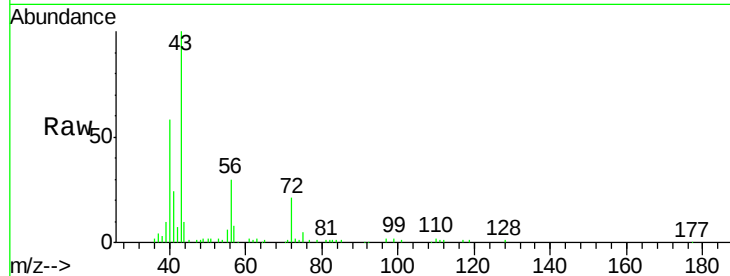
72 21.3 16.2 24.4

Manual Integrations

APPROVED

MMDadoda

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#26

2,2-Dichloropropane

Concen: 23.678 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.01 min

Lab File: VF061957.D

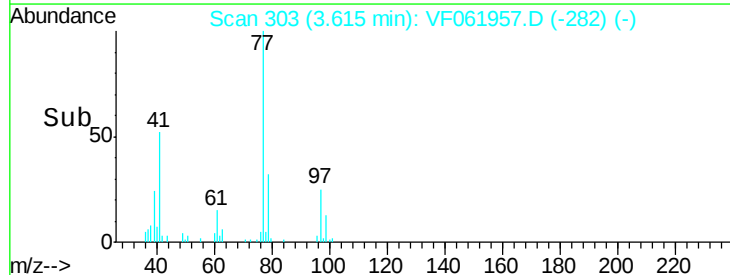
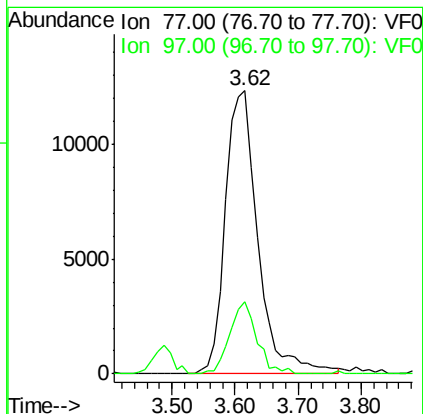
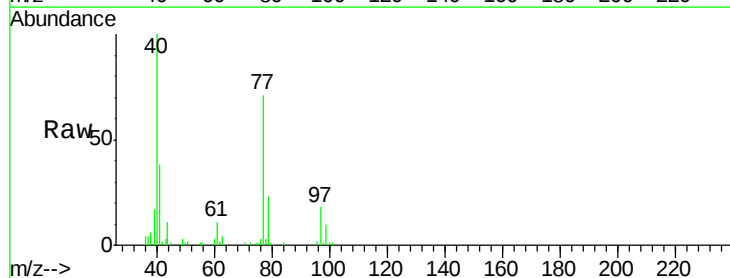
Acq: 15 Mar 2019 13:19

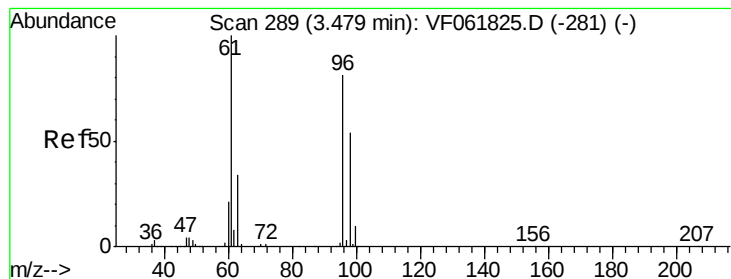
Tgt Ion: 77 Resp: 44270

Ion Ratio Lower Upper

77 100

97 25.4 10.4 31.4





#27

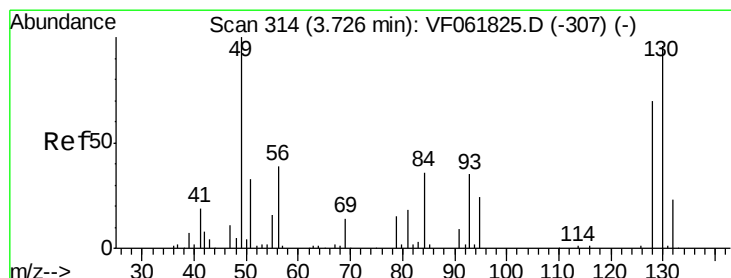
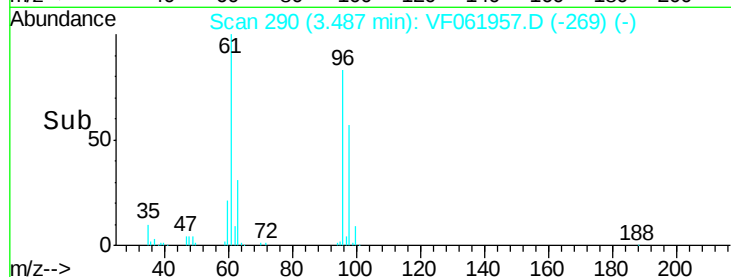
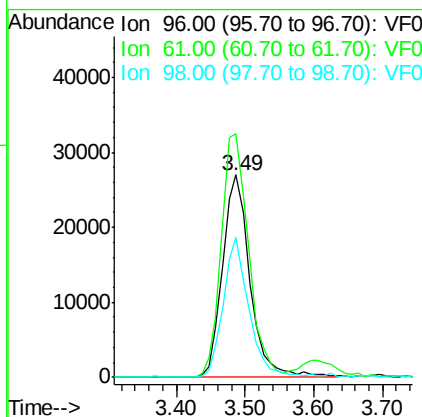
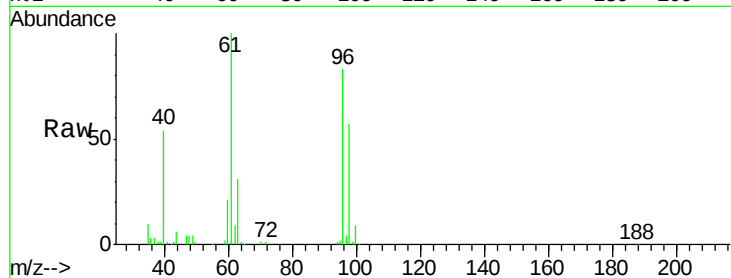
cis-1,2-Dichloroethene
Concen: 23.385 ug/l
RT: 3.49 min Scan# 290
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.2	0.0	245.8
98	68.9	0.0	132.6

Manual Integrations
APPROVED

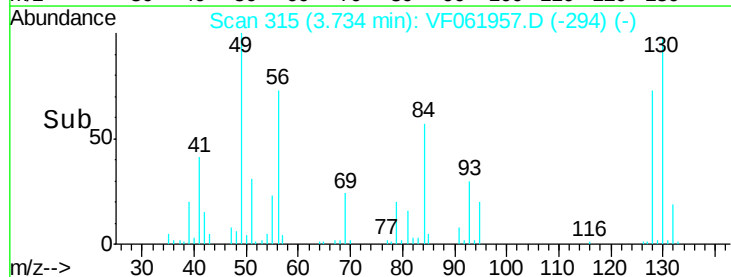
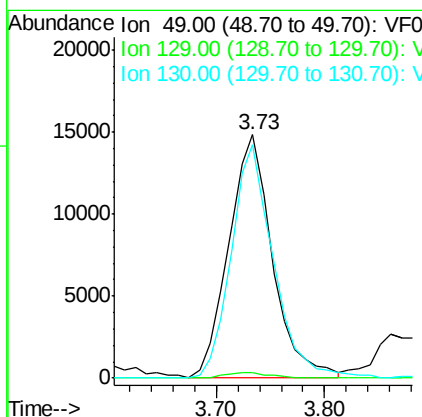
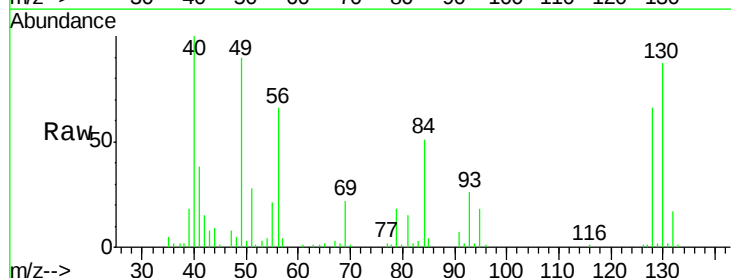
MMDadoda
3/17/2019 5:23:13 AM

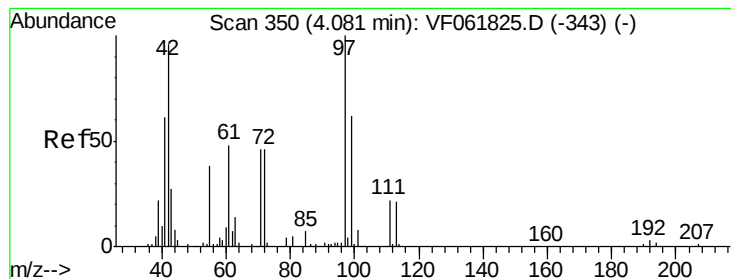


#28

Bromochloromethane
Concen: 22.926 ug/l
RT: 3.73 min Scan# 315
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	96.1	76.9	115.3





#29

Tetrahydrofuran

Concen: 110.867 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

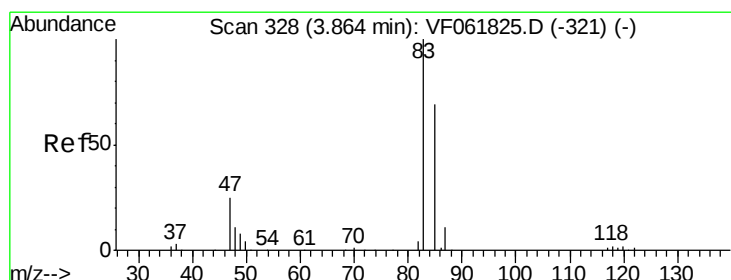
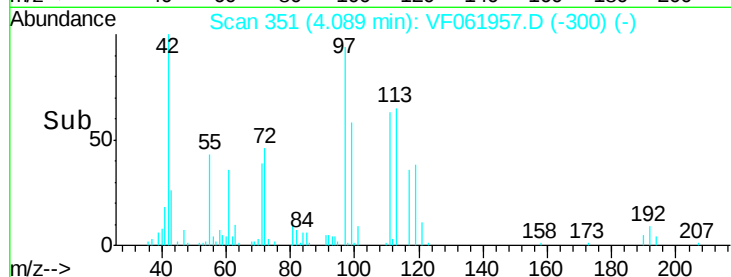
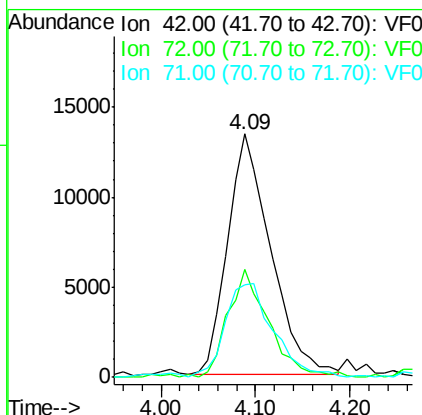
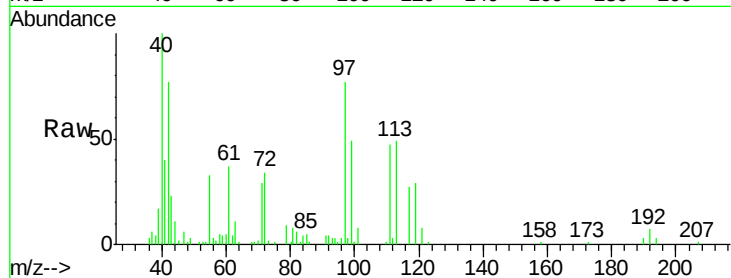
ClientSampleId :

VF0315SBS01

Tot Ion:	42	Resp:	42417
Ion Ratio	Lower	Upper	
42	100		
72	42.6	34.4	51.6
71	43.4	34.6	52.0

Manual Integrations
APPROVED

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3/17/2019 5:23:13 AM



#30

Chloroform

Concen: 21.991 ug/l

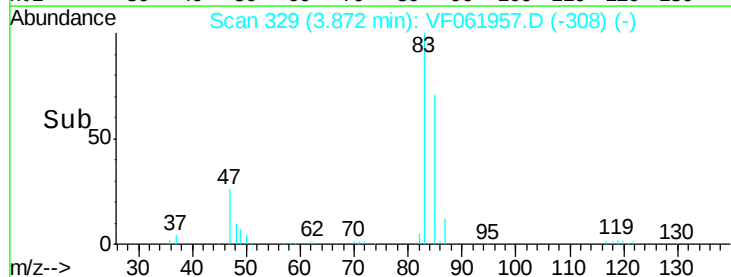
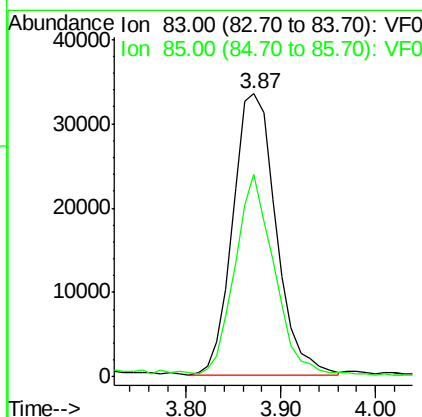
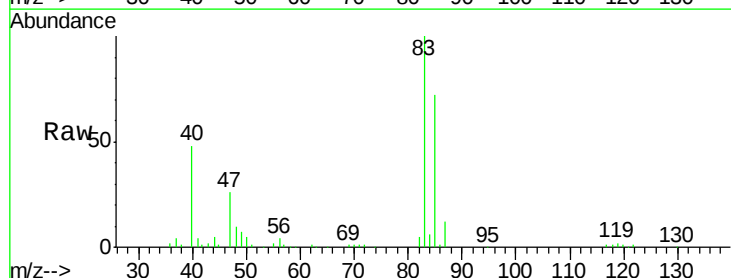
RT: 3.87 min Scan# 329

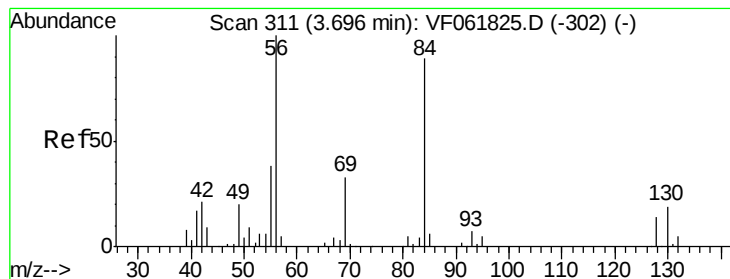
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	83	Resp:	105204
Ion Ratio	Lower	Upper	
83	100		
85	71.6	55.3	82.9





#31

Cyclohexane

Concen: 22.462 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

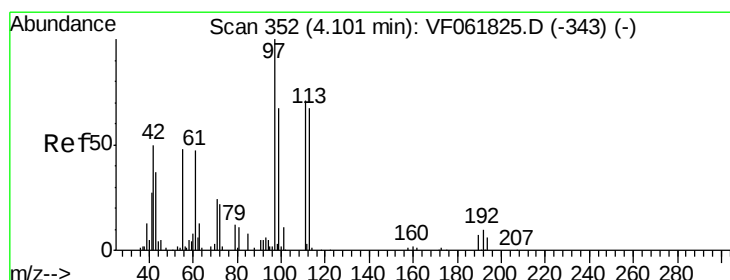
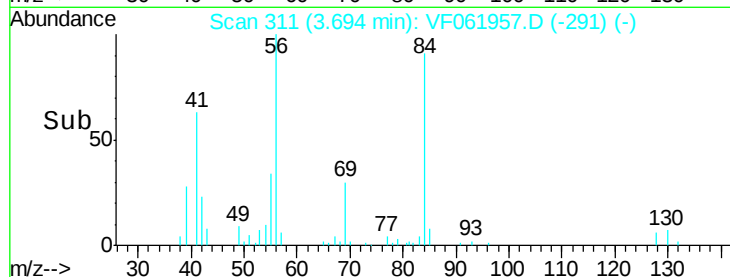
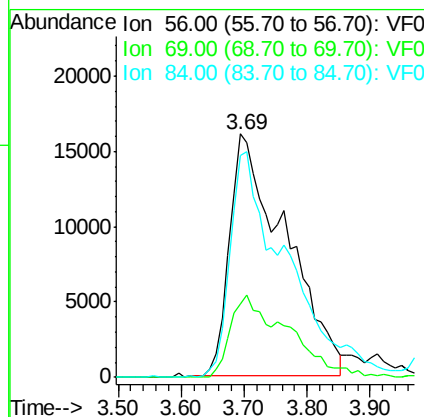
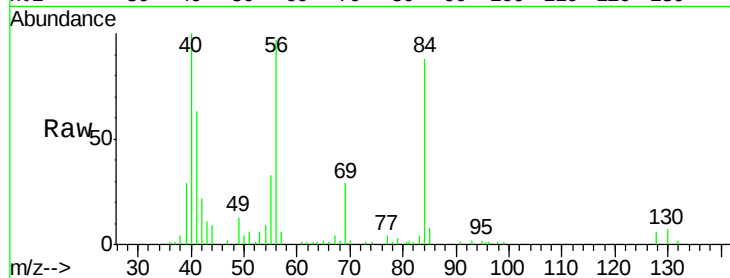
ClientSampleId :

VF0315SBS01

Tot Ion:	56	Resp:	98537
Ion Ratio	Lower	Upper	
56	100		
69	29.9	26.0	39.0
84	90.9	71.0	106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 23.689 ug/l

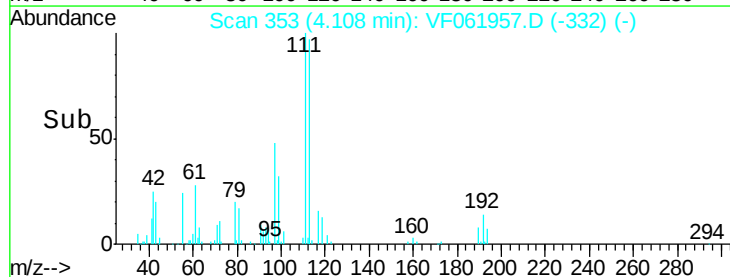
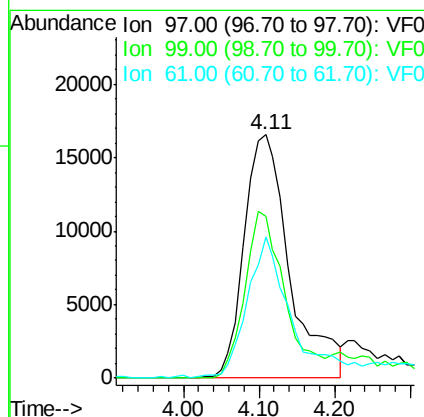
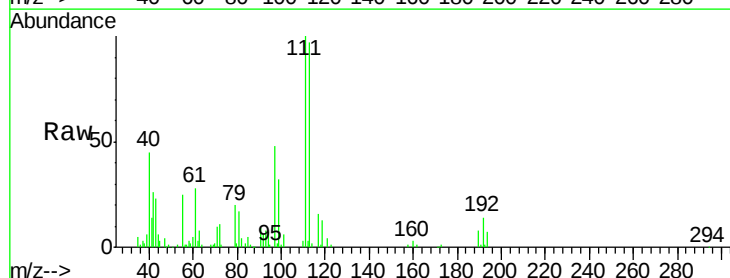
RT: 4.11 min Scan# 353

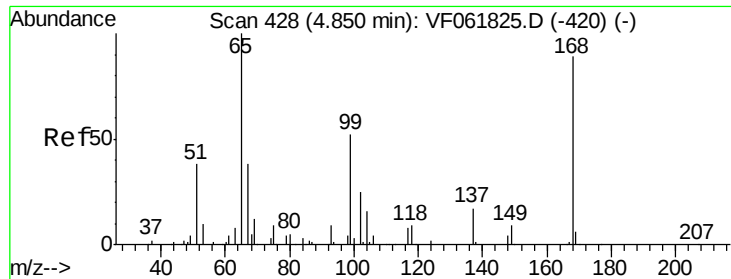
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	97	Resp:	69853
Ion Ratio	Lower	Upper	
97	100		
99	66.3	53.8	80.8
61	58.0	37.9	56.9#





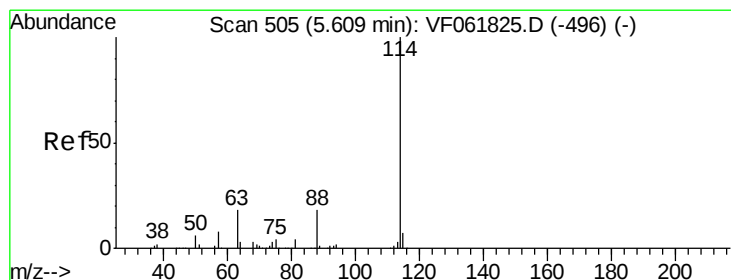
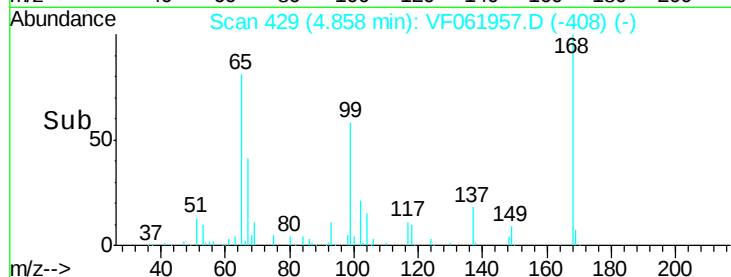
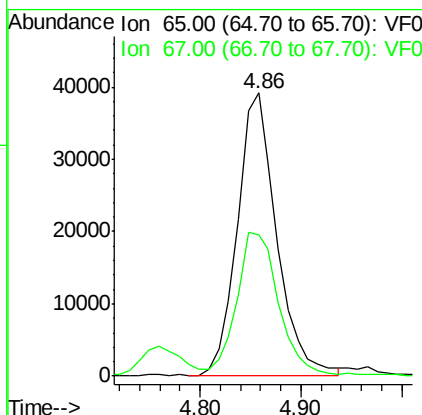
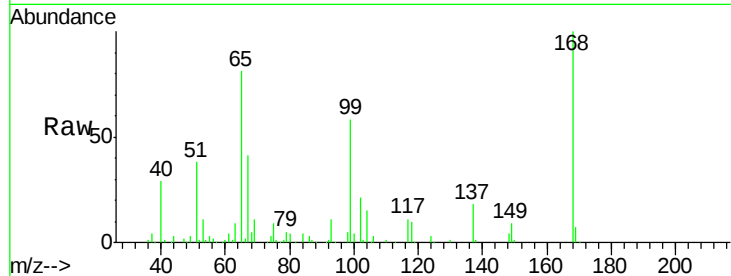
#33
 1,2-Dichloroethane-d4
 Concen: 51.233 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	106670		
67	50.1	0.0	108.6	

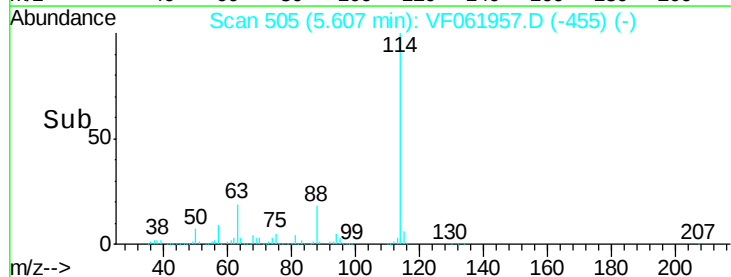
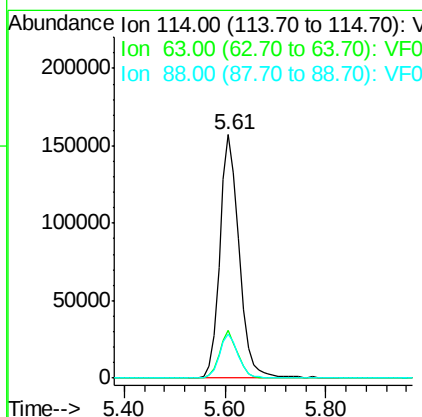
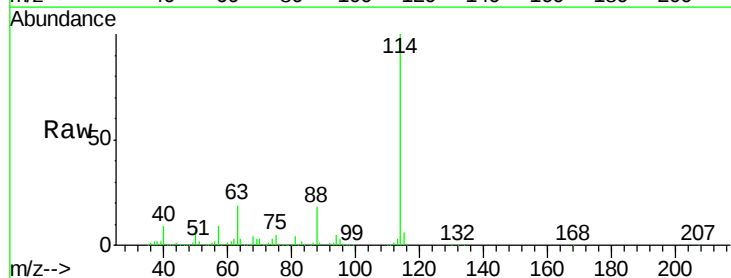
Manual Integrations
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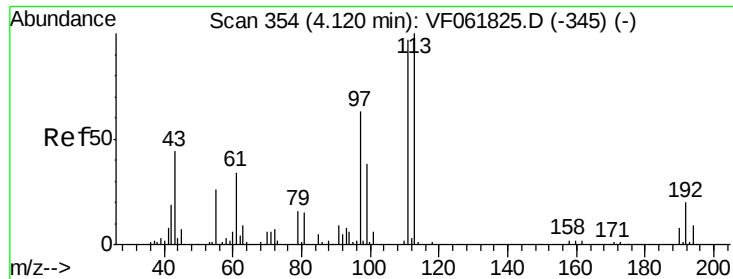
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	421293		
63	19.5	0.0	35.6	
88	17.9	0.0	35.6	





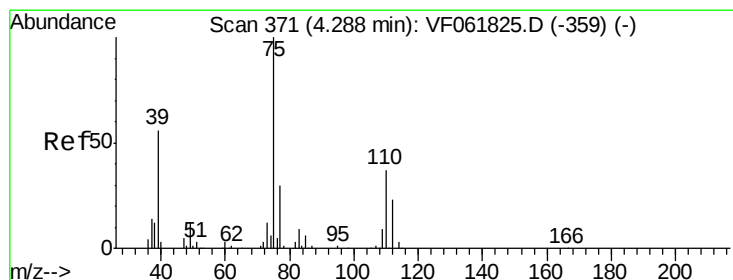
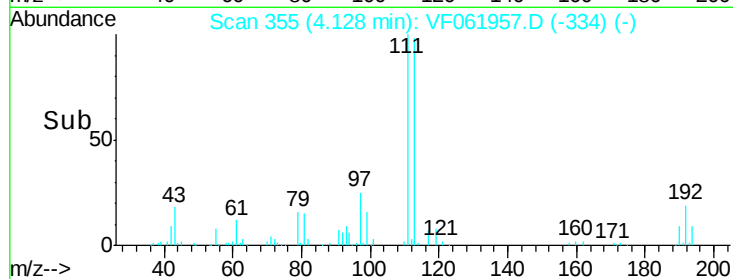
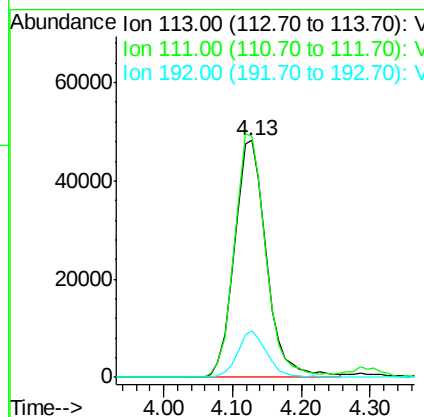
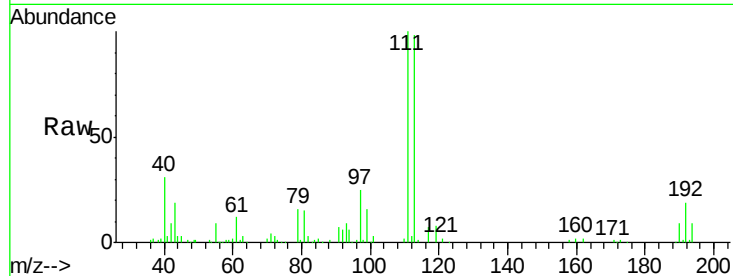
#35
Dibromofluoromethane
Concen: 52.771 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	155150		
111	101.9	77.6	116.4	
192	20.0	15.9	23.9	

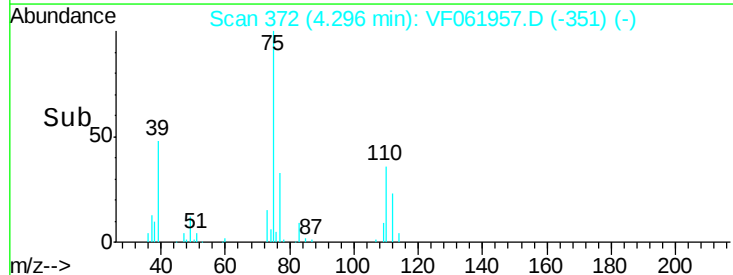
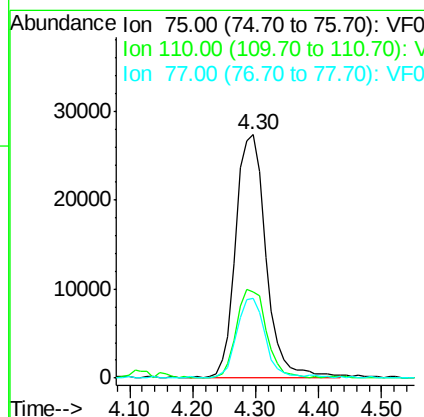
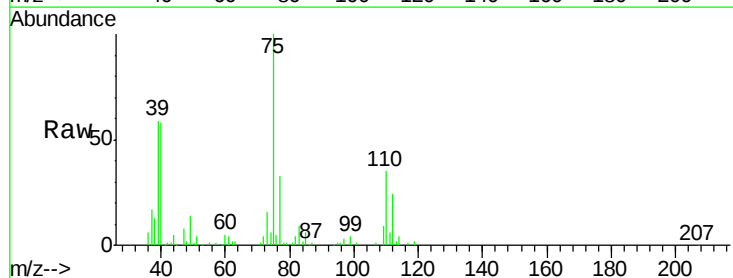
Manual Integrations
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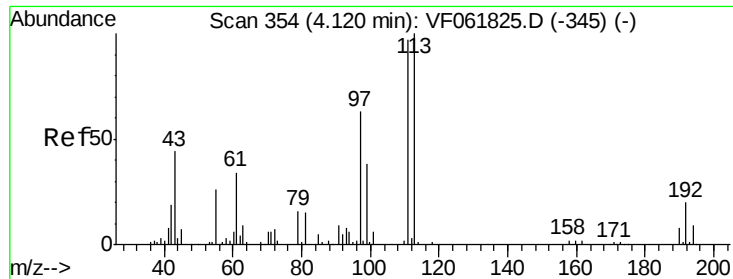
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#36
1,1-Dichloropropene
Concen: 22.957 ug/l
RT: 4.30 min Scan# 372
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	91360		
110	35.4	18.6	55.6	
77	32.9	24.2	36.2	





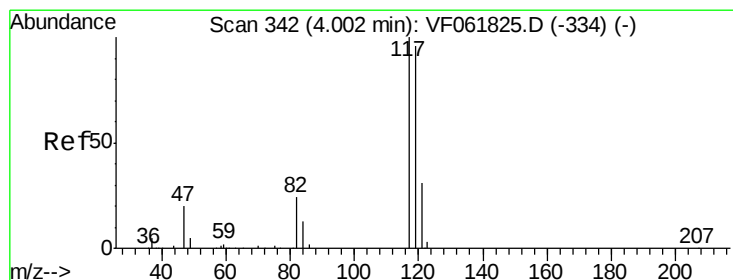
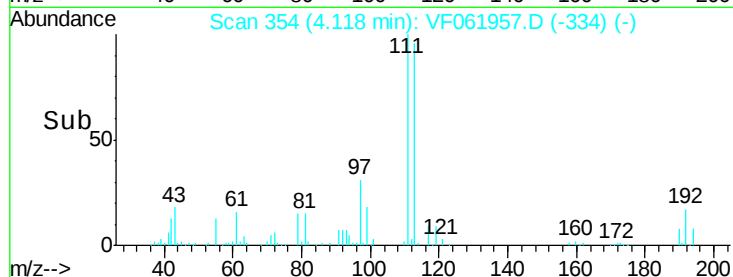
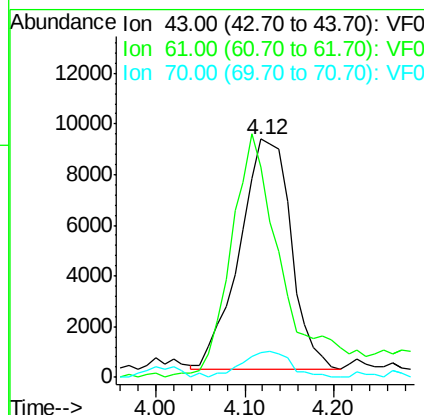
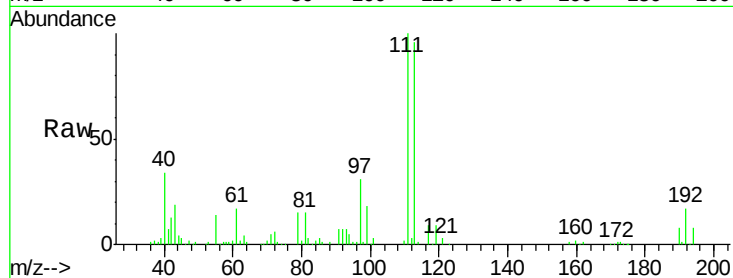
#37
Ethyl Acetate
Concen: 21.653 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	88.2	60.7	91.1
70	10.2	10.6	15.8

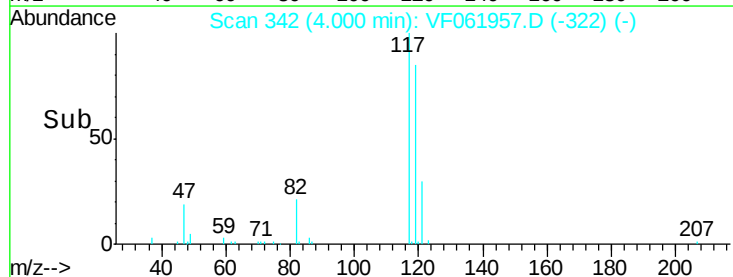
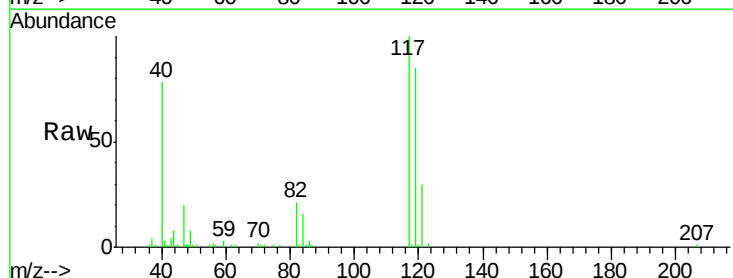
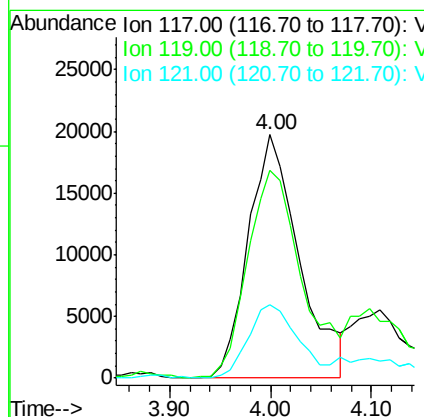
Manual Integrations
APPROVED

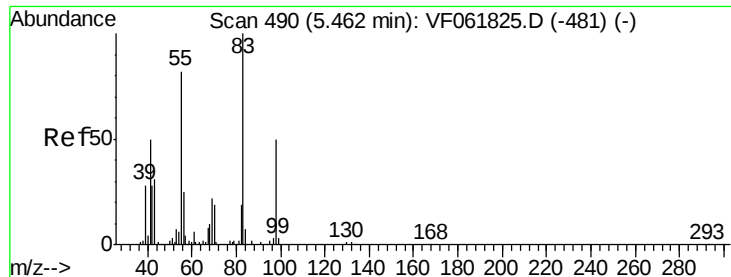
MMDadoda
3/17/2019 5:23:13 AM



#38
Carbon Tetrachloride
Concen: 24.625 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	85.4	76.6	114.8
121	30.2	24.4	36.6





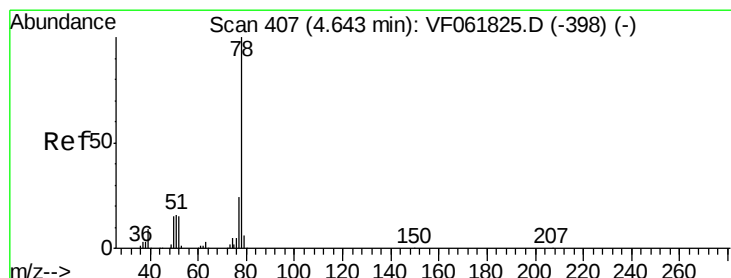
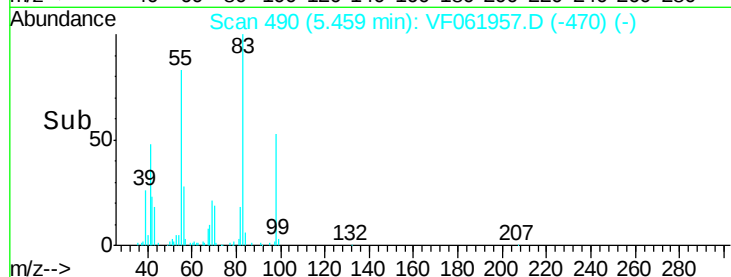
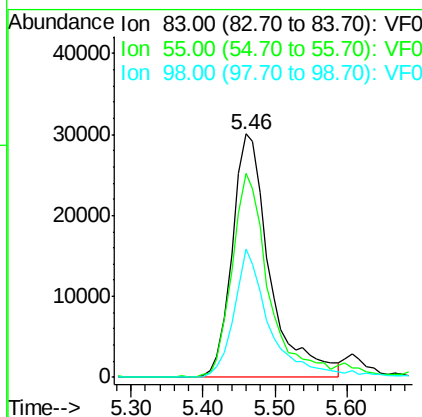
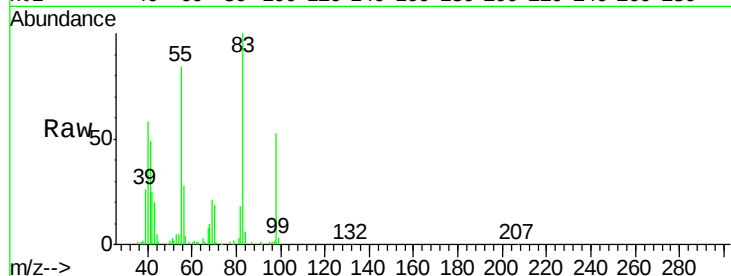
#39
Methvlcvclohexane
Concen: 23.386 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	109926		
55	83.6		66.0	99.0
98	52.9		39.8	59.6

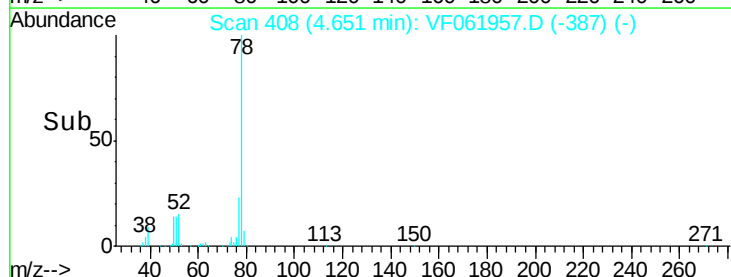
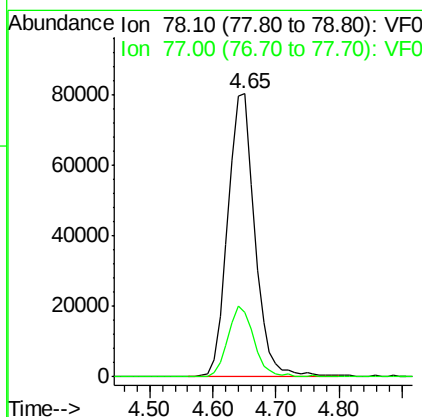
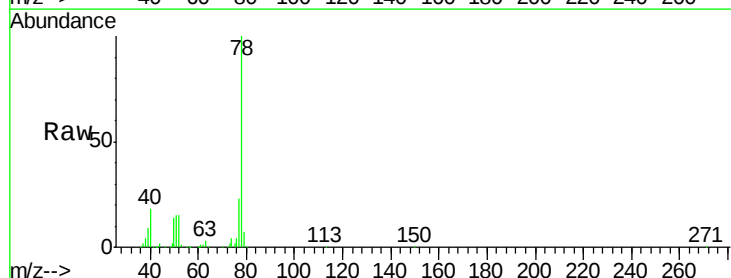
Manual Integrations
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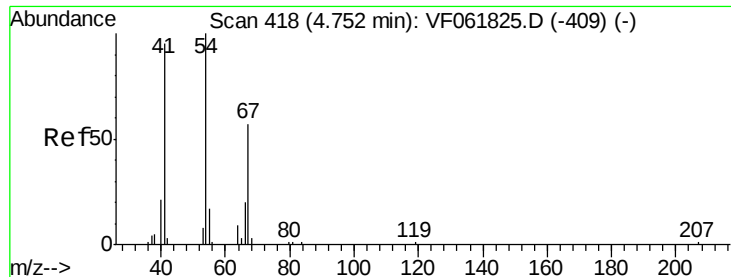
MMDadoda
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#40
Benzene
Concen: 22.961 ug/l
RT: 4.65 min Scan# 408
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	238849		
77	23.0		19.5	29.3





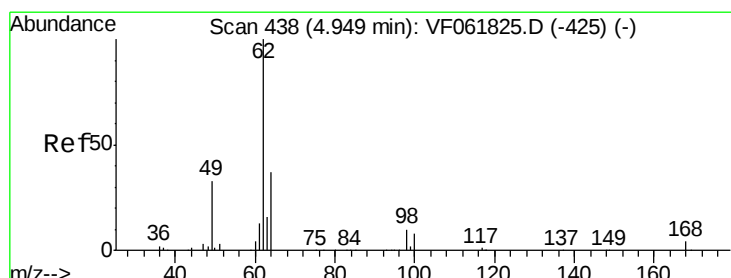
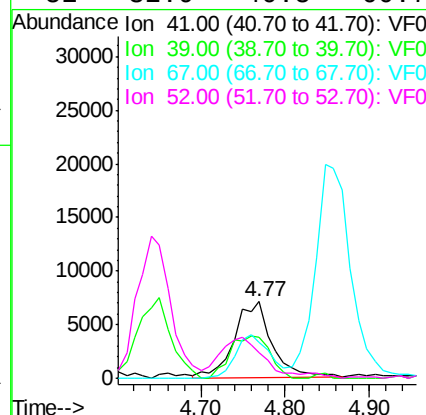
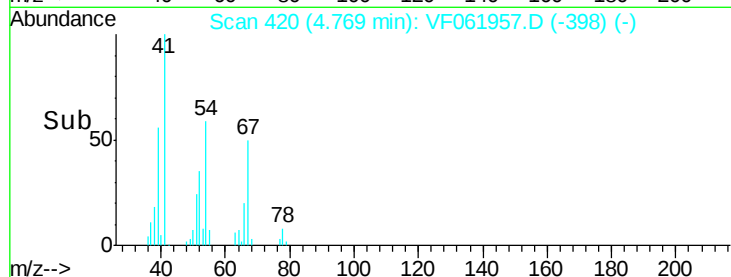
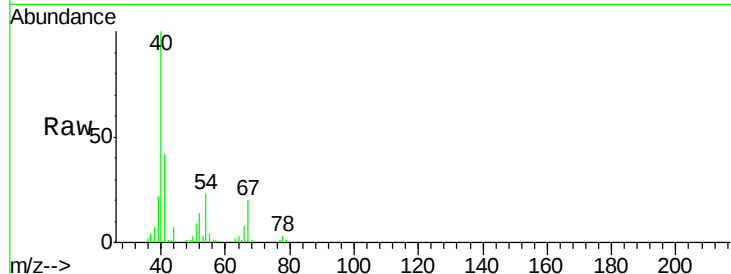
#41
Methacrylonitrile
Concen: 23.492 ug/l
RT: 4.77 min Scan# 420
Delta R.T. 0.02 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		21499		
39	53.1	43.0	64.6		
67	47.0	47.8	71.8#		
52	32.9	40.5	60.7#		

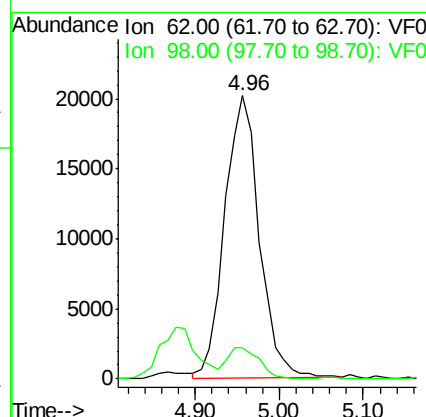
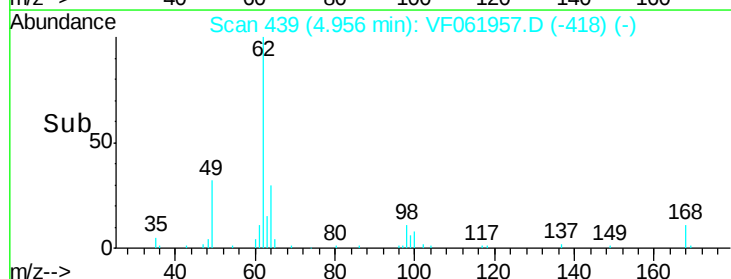
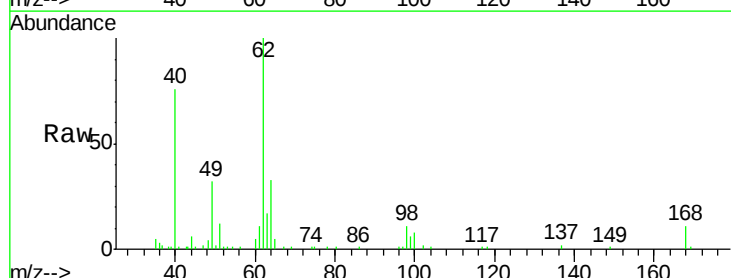
Manual Integrations
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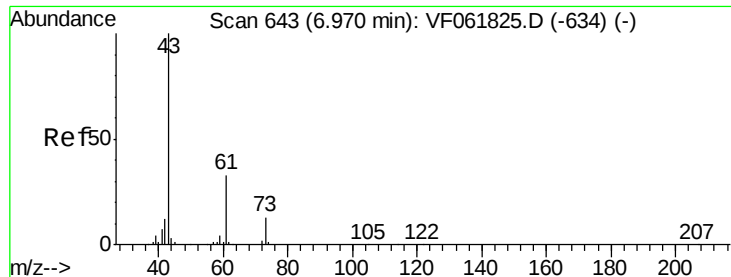
MMDadoda
3/17/2019 5:23:13 AM



#42
1,2-Dichloroethane
Concen: 22.132 ug/l
RT: 4.96 min Scan# 439
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		57374		
98	11.0	0.0	21.0		





#43

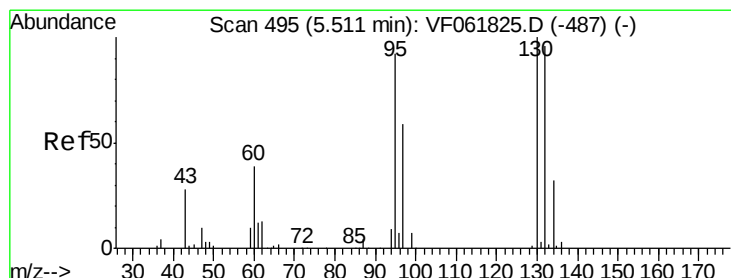
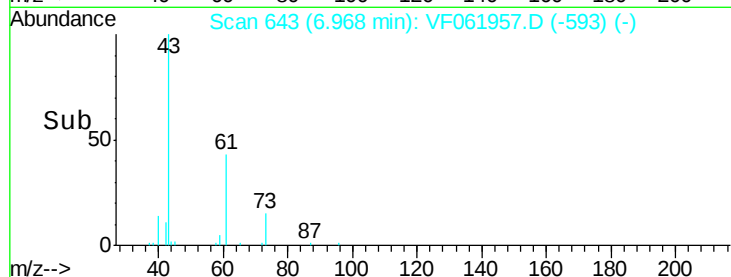
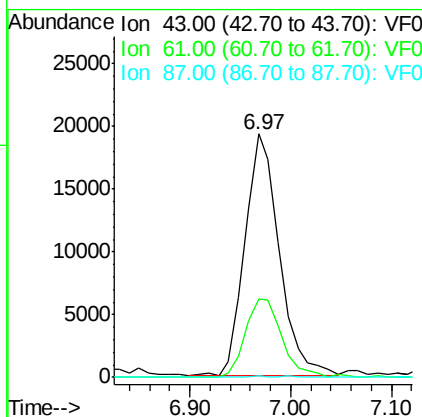
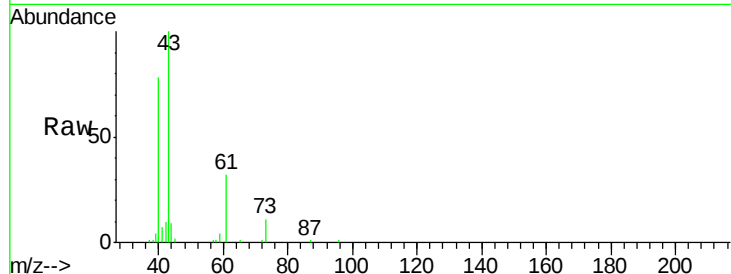
Isopropyl Acetate
 Concen: 22.145 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.2	26.1	39.1
87	0.6	0.0	0.0

Manual Integrations
 APPROVED

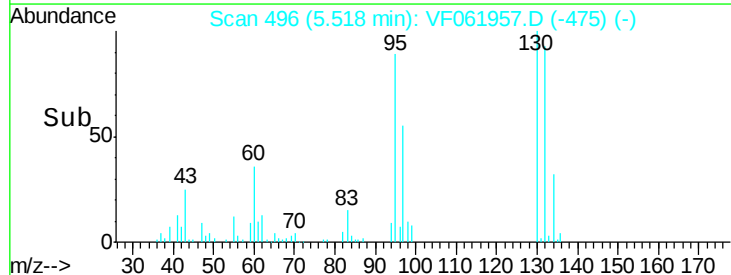
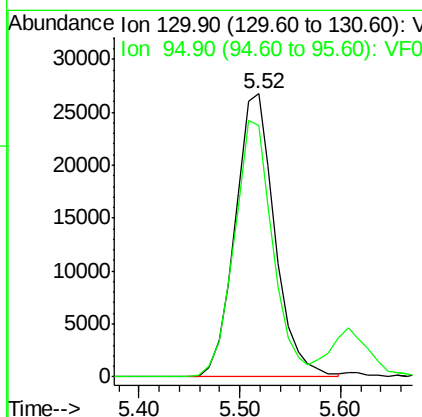
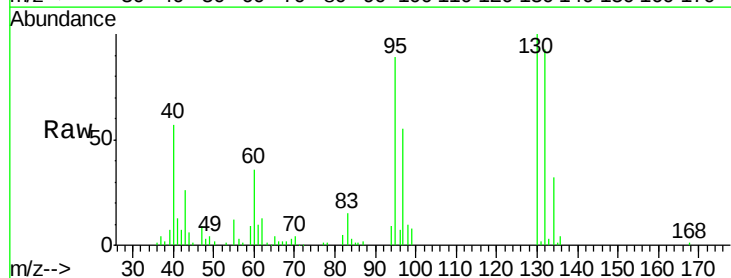
MMDadoda
 3/17/2019 5:23:13 AM

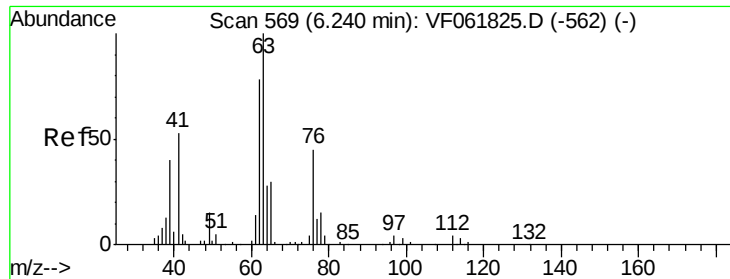


#44

Trichloroethene
 Concen: 22.605 ug/l
 RT: 5.52 min Scan# 496
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.7	0.0	184.0





#45

1,2-Dichloropropane

Concen: 22.980 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 63 Resp: 56843

Ion Ratio Lower Upper

63 100

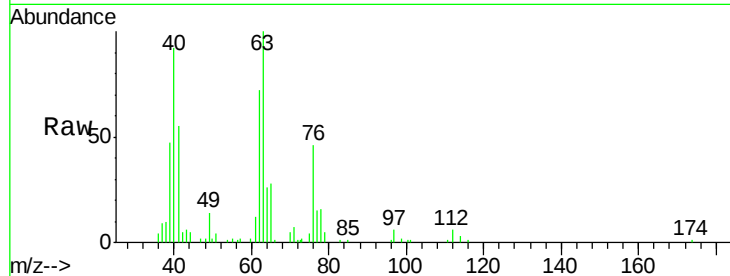
65 28.2 24.0 36.0

Manual Integrations

APPROVED

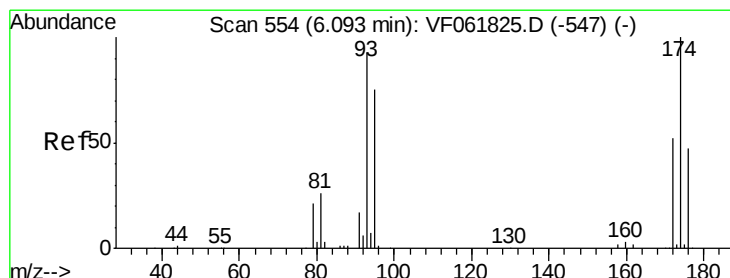
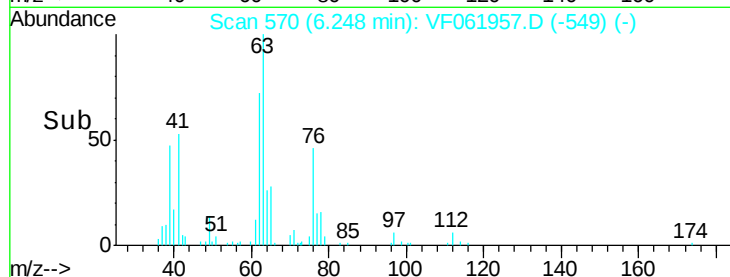
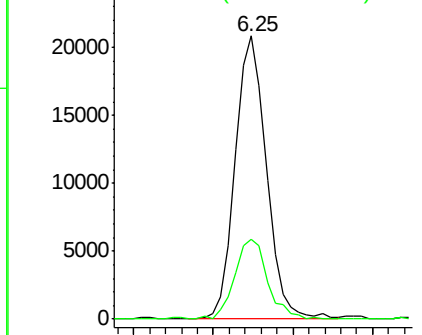
MMDadoda

3/17/2019 5:23:13 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 22.103 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

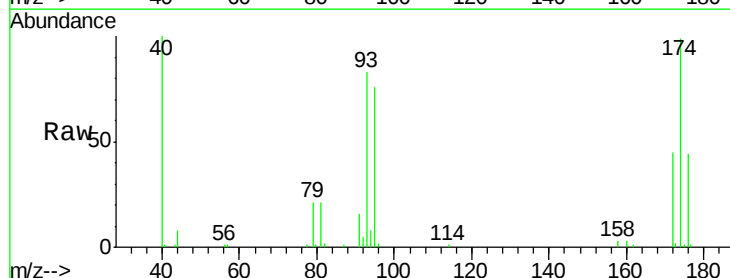
Tgt Ion: 93 Resp: 34409

Ion Ratio Lower Upper

93 100

95 91.2 64.4 96.6

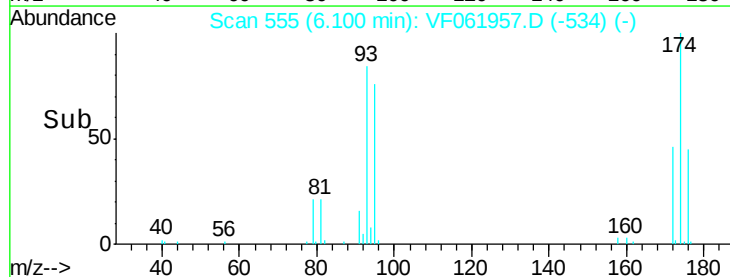
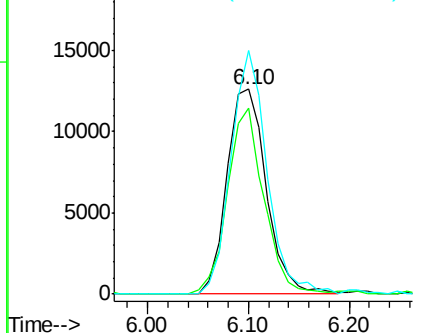
174 119.0 85.8 128.6

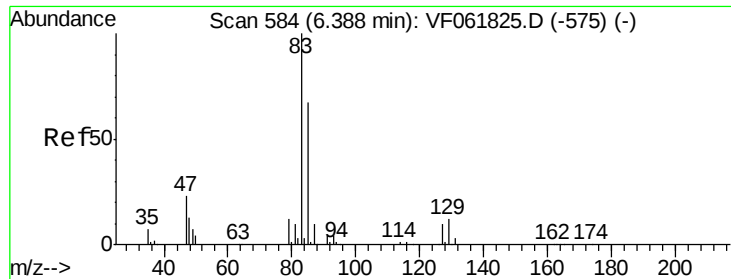


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.798 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

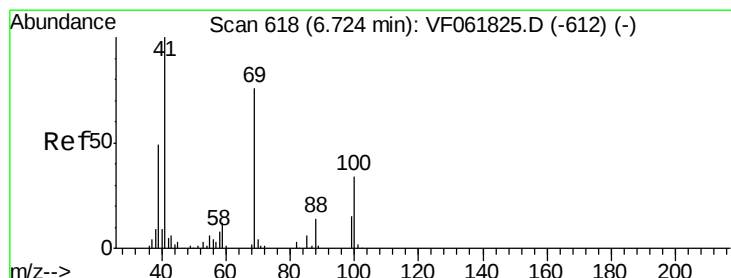
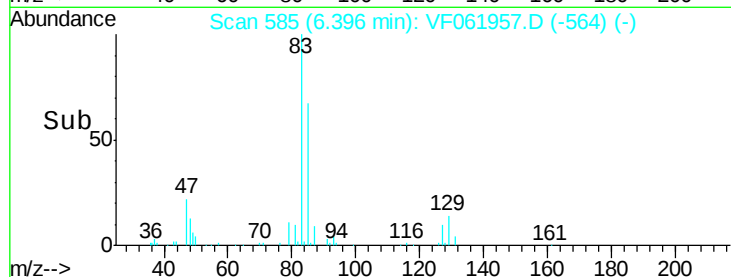
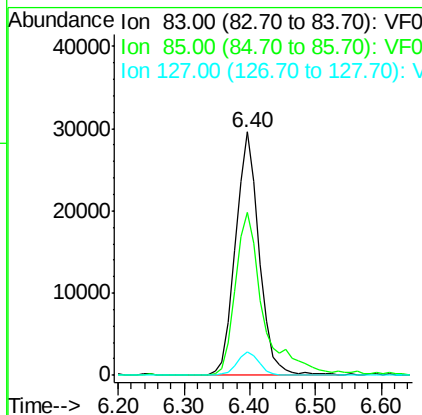
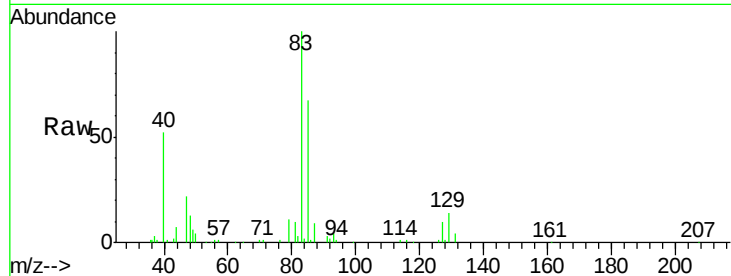
ClientSampleId :

VF0315SBS01

Tot Ion:	83	Resp:	74968
Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.6	80.4
127	9.7	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
3/17/2019 5:23:13 AM



#48

Methyl methacrylate

Concen: 23.006 ug/l

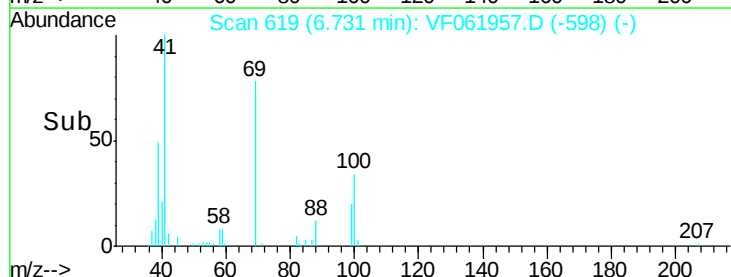
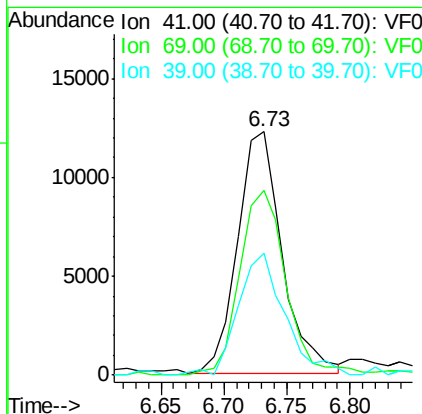
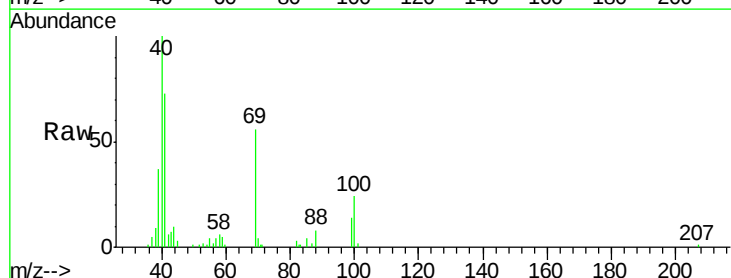
RT: 6.73 min Scan# 619

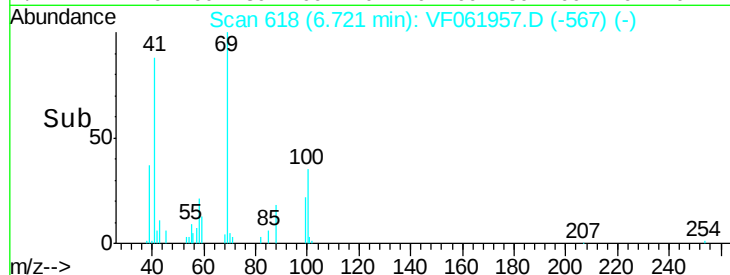
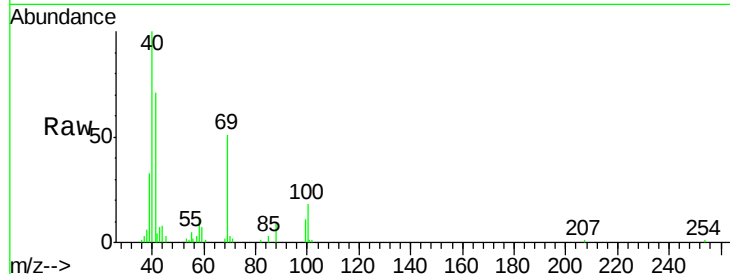
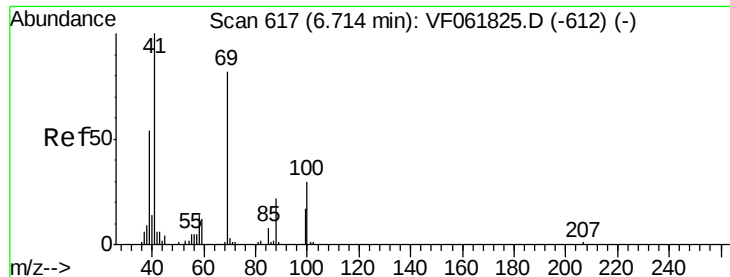
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	41	Resp:	29979
Ion	Ratio	Lower	Upper
41	100		
69	76.1	60.4	90.6
39	50.1	39.7	59.5





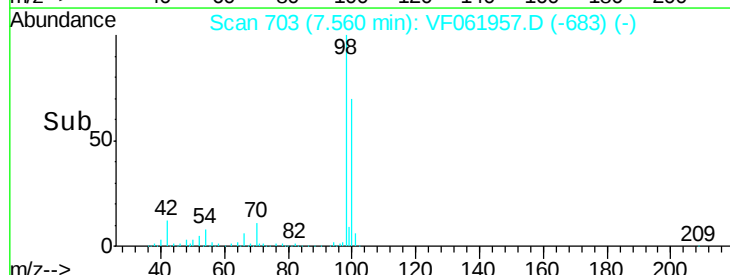
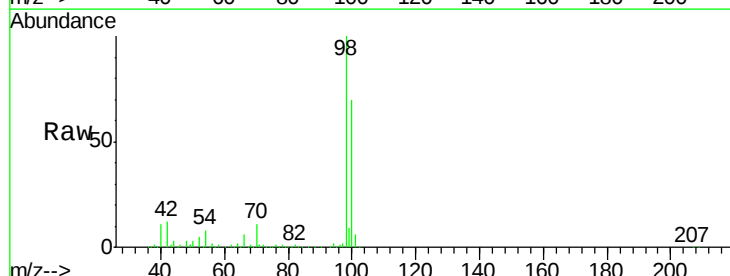
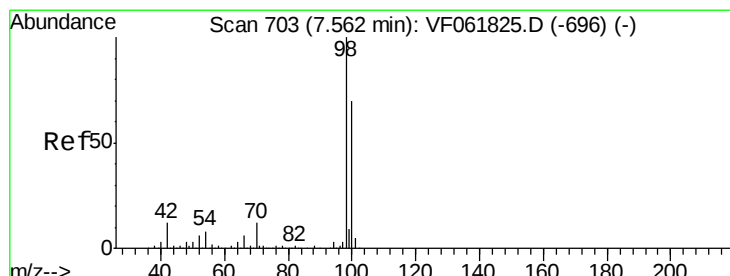
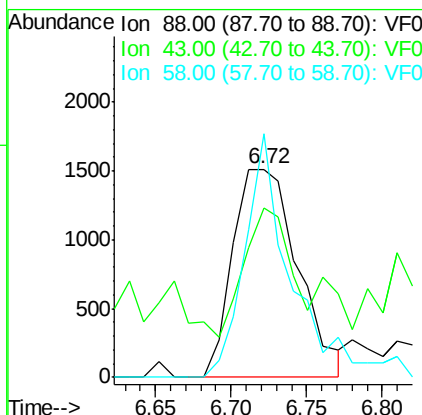
#49
1,4-Dioxane
Concen: 379.276 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tot Ion	Ratio	Lower	Upper
88	100		
43	81.5	28.4	42.6#
58	116.8	50.7	76.1#

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

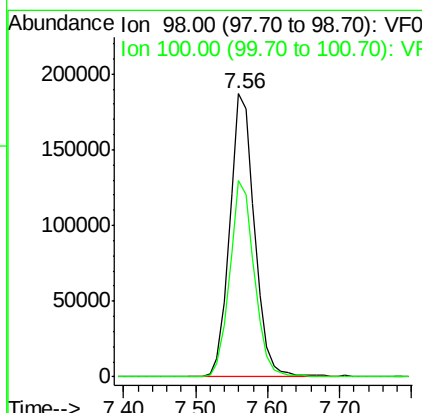
Manual Integrations
APPROVED

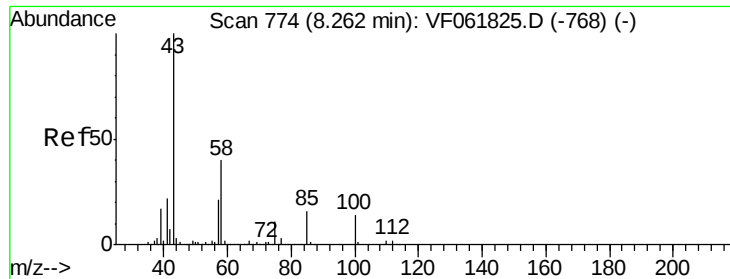
MMDadoda
3/17/2019 5:23:13 AM



#50
Toluene-d8
Concen: 51.317 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.5	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 113.778 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBSD01

Tot Ion: 43 Resp: 161912

Ion Ratio Lower Upper

43 100

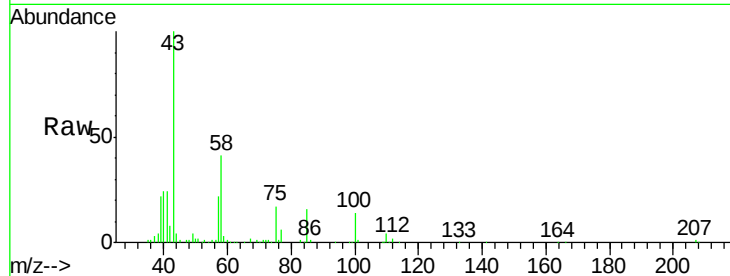
58 40.8 31.8 47.8

Manual Integrations

APPROVED

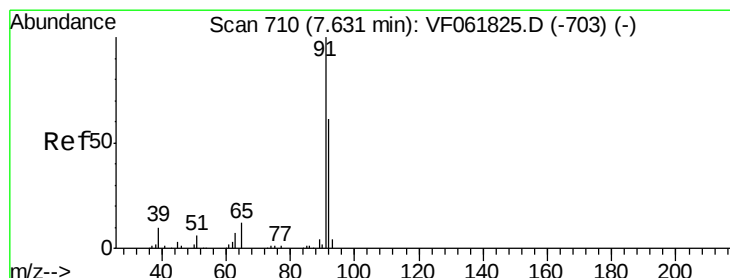
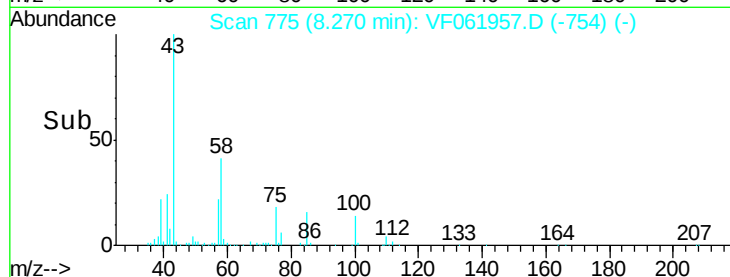
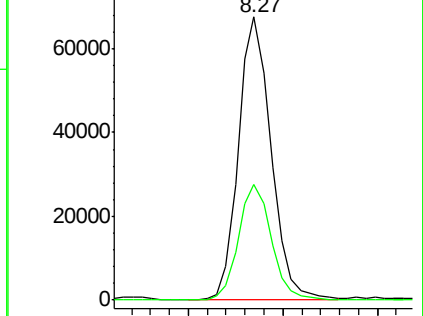
MMDadoda

3/17/2019 5:23:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 23.553 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF061957.D

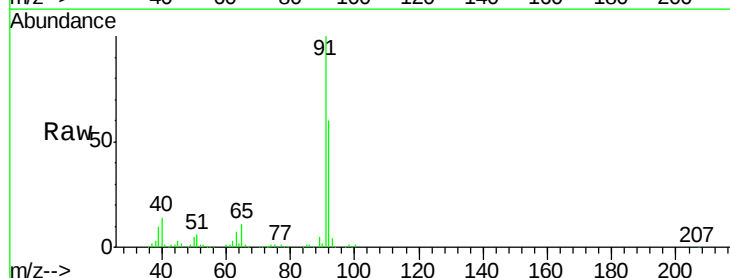
Acq: 15 Mar 2019 13:19

Tgt Ion: 92 Resp: 144935

Ion Ratio Lower Upper

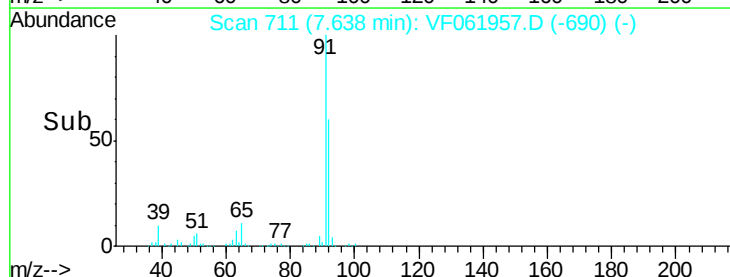
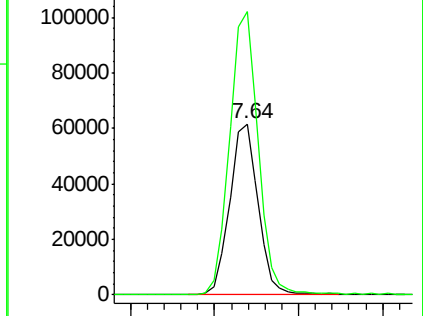
92 100

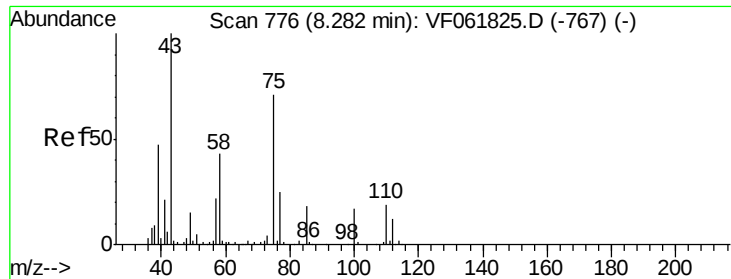
91 165.6 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





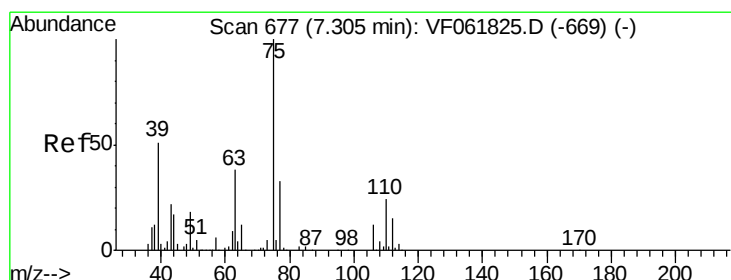
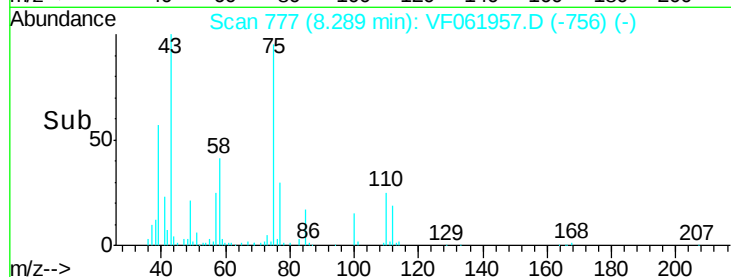
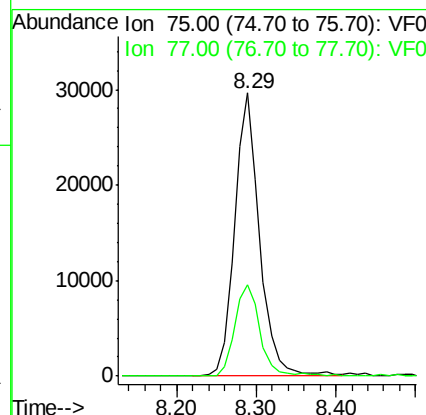
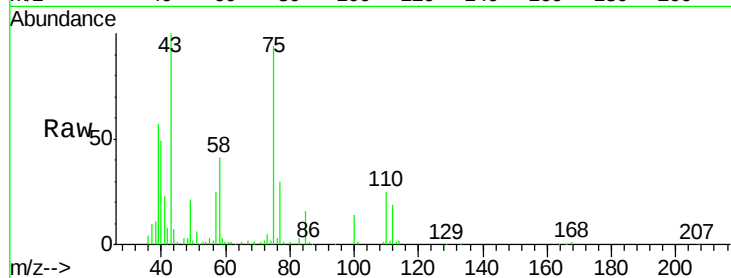
#53
t-1,3-Dichloropropene
Concen: 22.795 ug/l
RT: 8.29 min Scan# 777
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	28.0	42.0

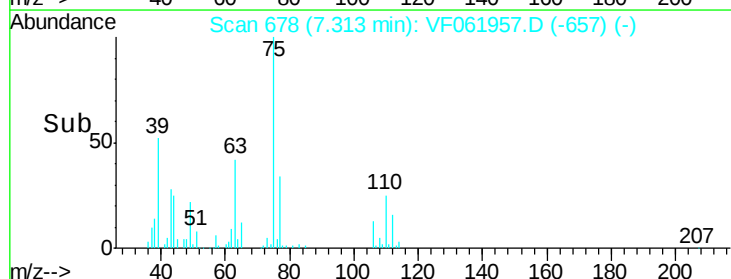
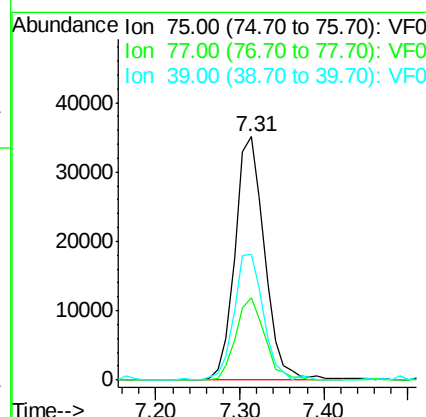
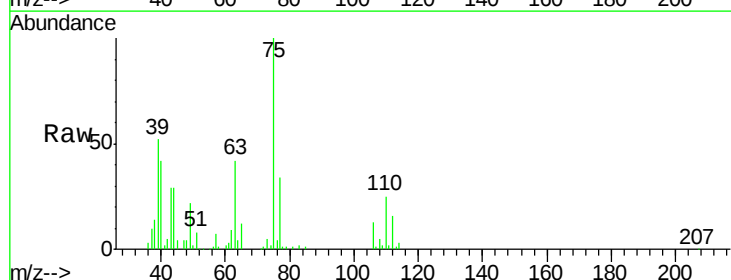
Manual Integrations
APPROVED

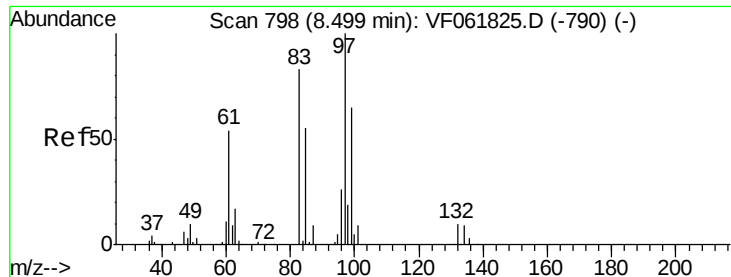
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3/17/2019 5:23:13 AM



#54
cis-1,3-Dichloropropene
Concen: 21.959 ug/l
RT: 7.31 min Scan# 678
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.1	26.3	39.5
39	51.9	40.8	61.2





#55

1,1,2-Trichloroethane

Concen: 23.127 ug/l

RT: 8.51 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

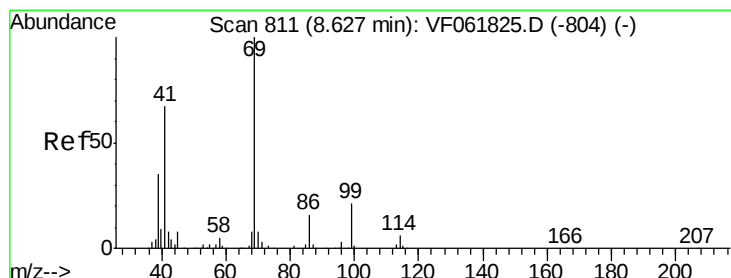
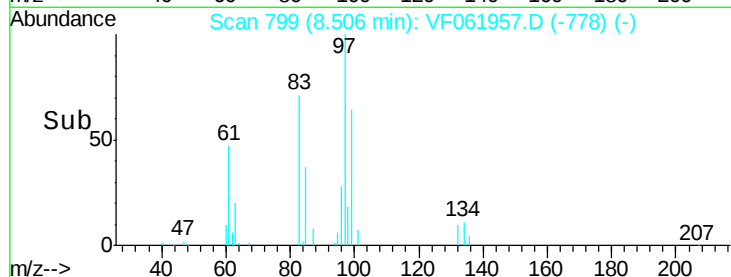
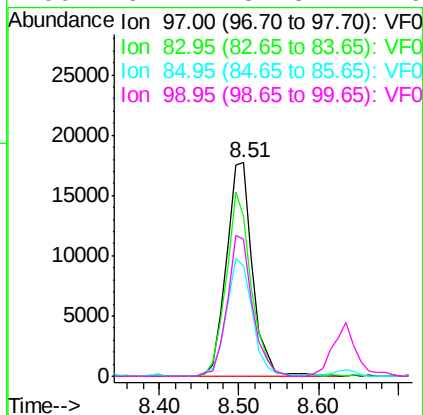
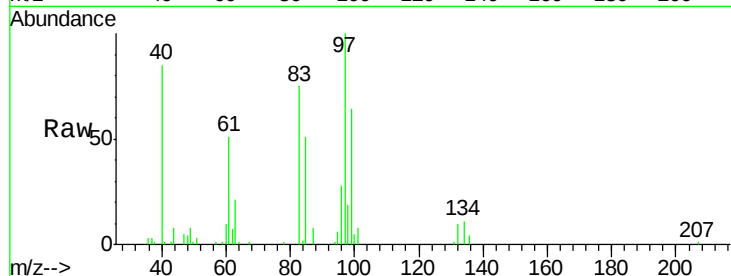
ClientSampleId :

VF0315SBS01

Tot Ion:	97	Resp:	41005
Ion	Ratio	Lower	Upper
97	100		
83	74.8	66.5	99.7
85	51.5	44.2	66.2
99	64.4	51.8	77.6

Manual Integrations
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3/17/2019 5:23:13 AM



#56

Ethyl methacrylate

Concen: 21.576 ug/l

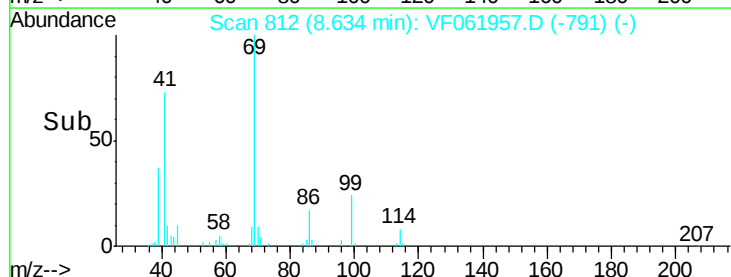
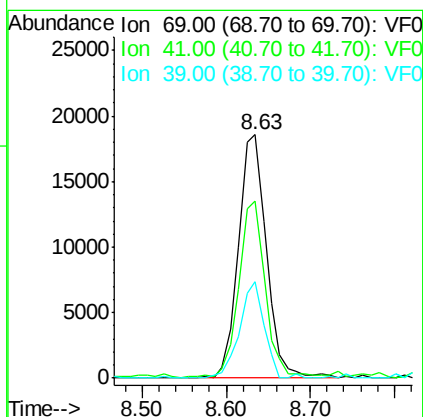
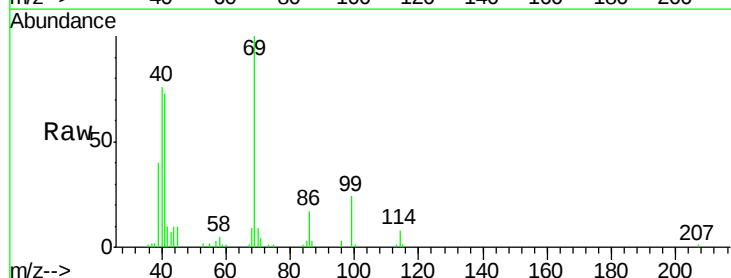
RT: 8.63 min Scan# 812

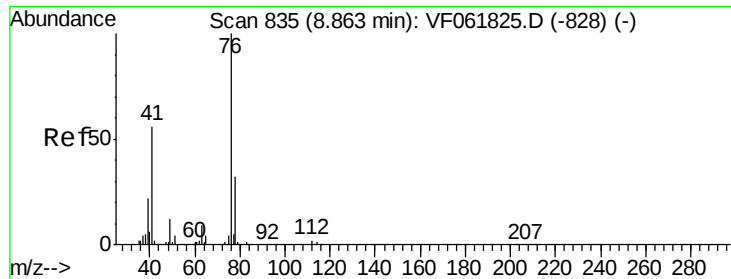
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	69	Resp:	43113
Ion	Ratio	Lower	Upper
69	100		
41	72.9	53.9	80.9
39	39.8	28.3	42.5





#57

1,3-Dichloropropane

Concen: 22.583 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBSD01

Tot Ion: 76 Resp: 65482

Ion Ratio Lower Upper

76 100

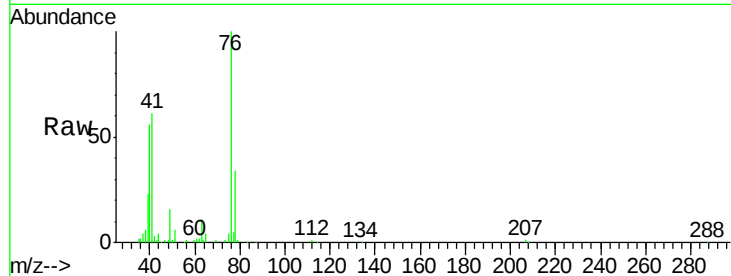
78 34.0 25.4 38.2

Manual Integrations

APPROVED

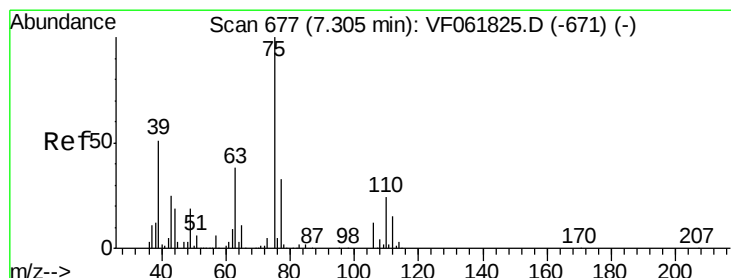
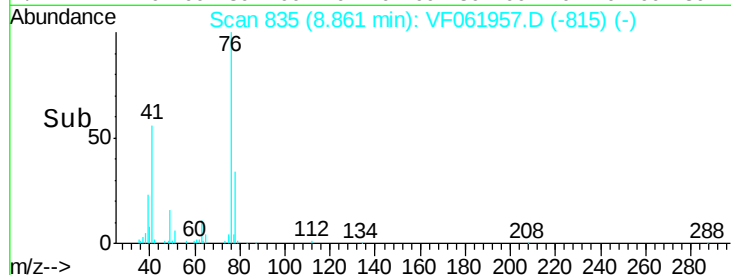
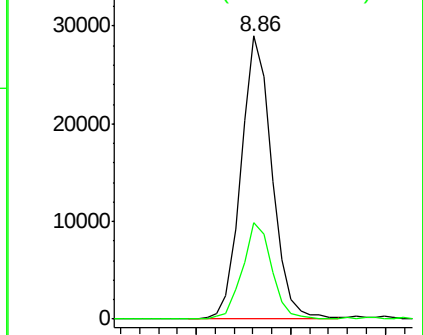
MMDadoda

3/17/2019 5:23:13 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 121.808 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061957.D

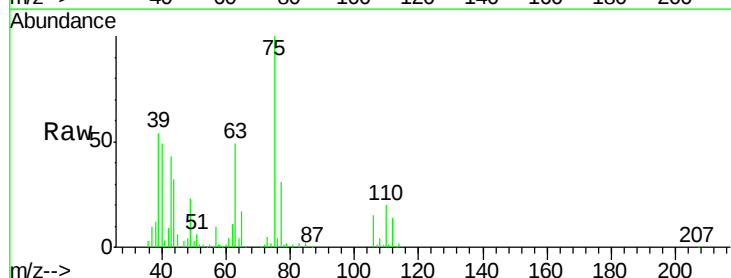
Acq: 15 Mar 2019 13:19

Tgt Ion: 63 Resp: 38503

Ion Ratio Lower Upper

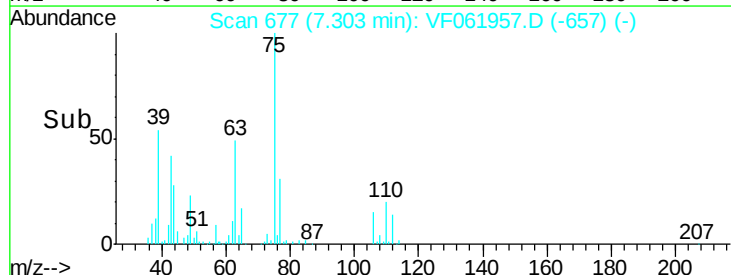
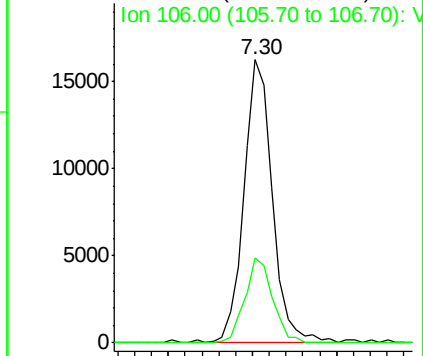
63 100

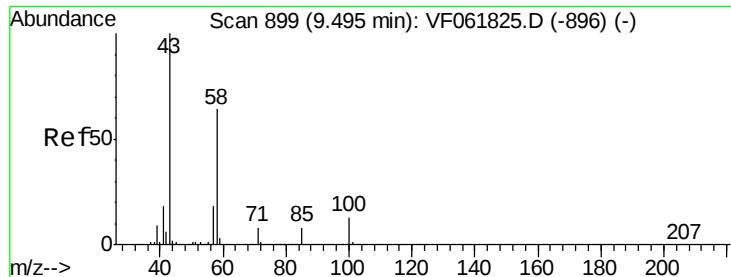
106 29.9 24.3 36.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





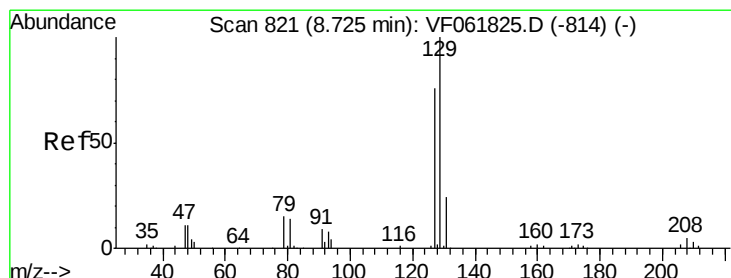
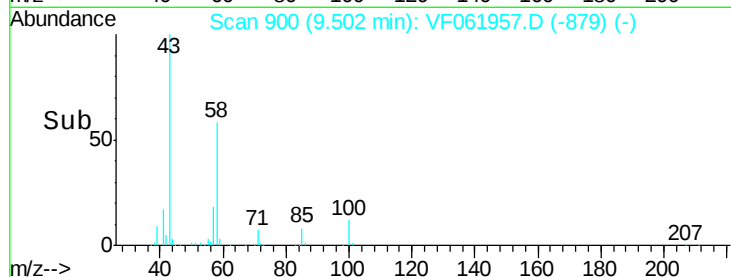
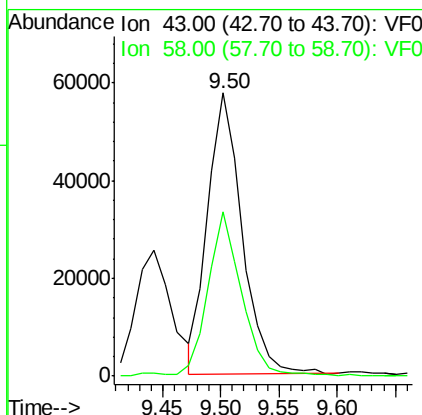
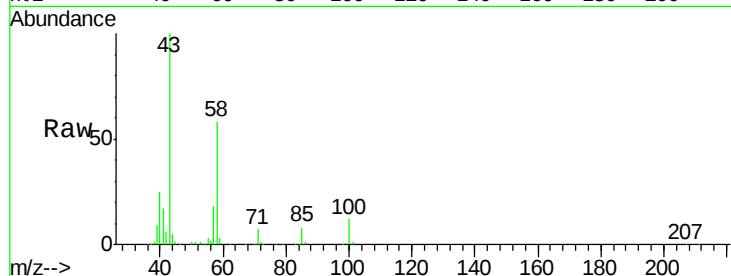
#59
2-Hexanone
Concen: 114.805 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

Tot Ion: 43 Resp: 117860
Ion Ratio Lower Upper
43 100
58 57.9 28.8 86.4

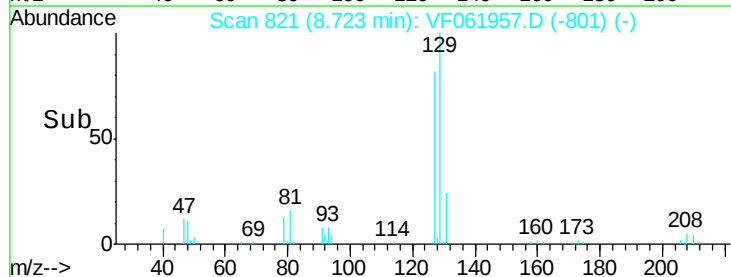
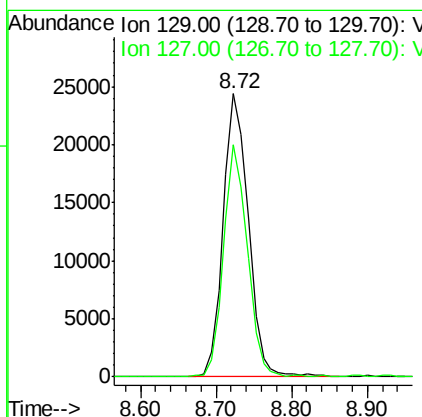
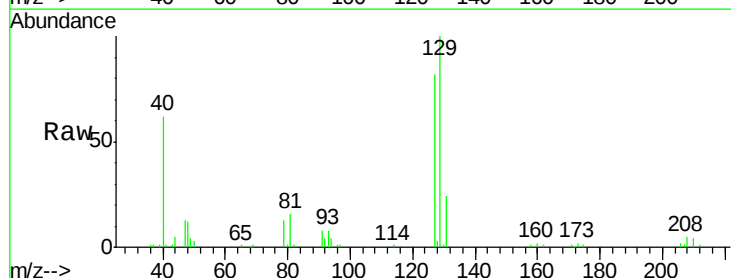
Manual Integrations
APPROVED

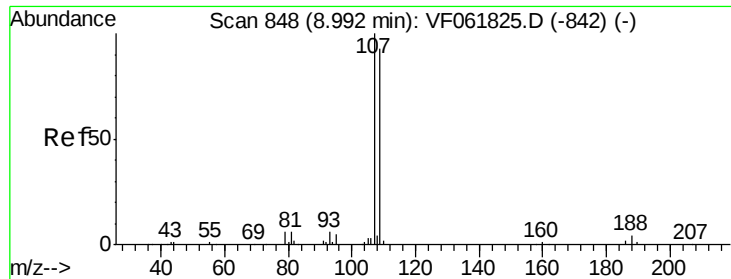
MMDadoda
3/17/2019 5:23:13 AM



#60
Dibromochloromethane
Concen: 22.265 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 129 Resp: 56264
Ion Ratio Lower Upper
129 100
127 82.0 38.2 114.6





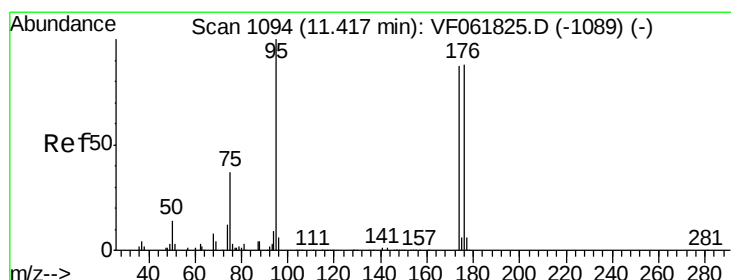
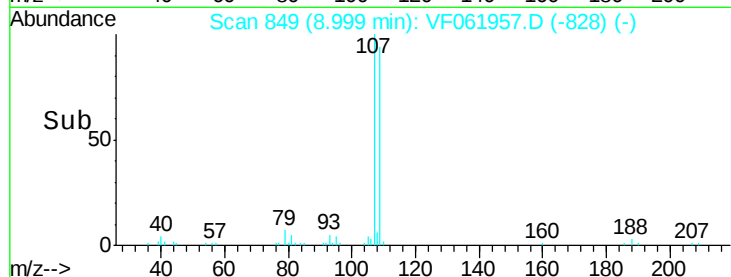
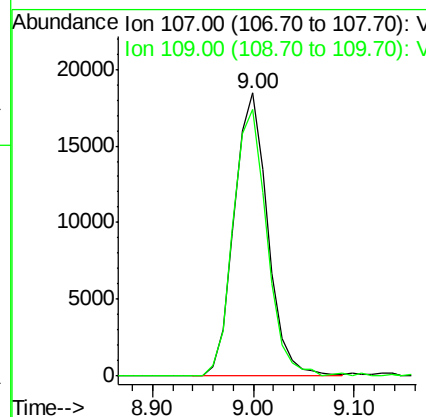
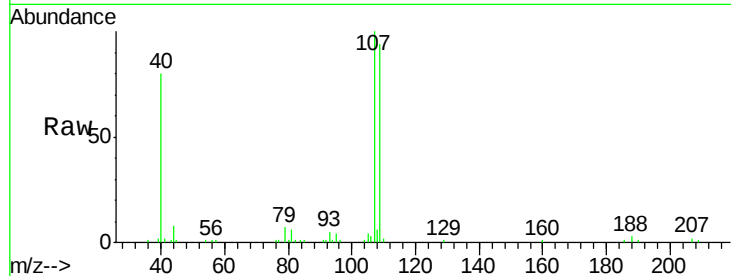
#61
1,2-Dibromoethane
Concen: 21.906 ug/l
RT: 9.00 min Scan# 849
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion: 107 Resp: 42712
Ion Ratio Lower Upper
107 100
109 94.3 74.6 112.0

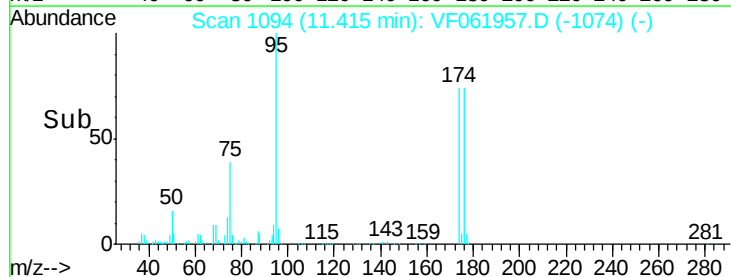
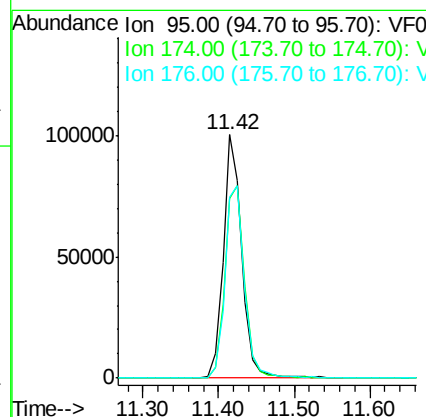
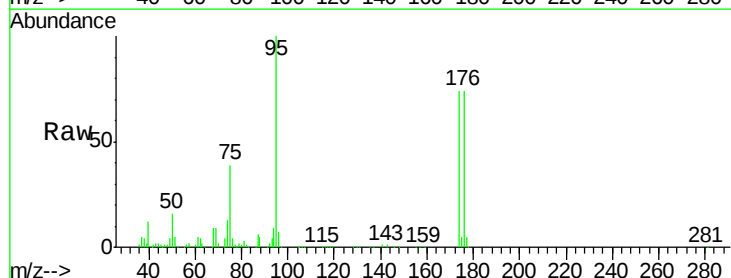
Manual Integrations
APPROVED

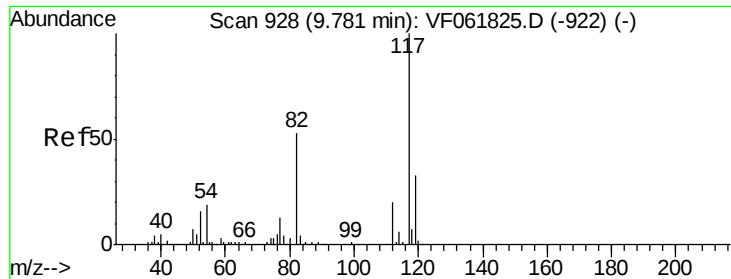
MMDadoda
3/17/2019 5:23:13 AM



#62
4-Bromofluorobenzene
Concen: 50.110 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion: 95 Resp: 171537
Ion Ratio Lower Upper
95 100
174 73.6 0.0 174.0
176 74.4 0.0 175.2





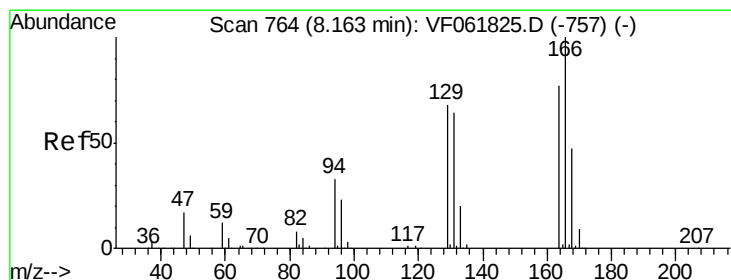
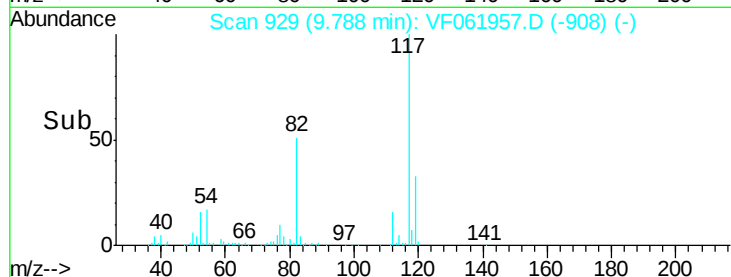
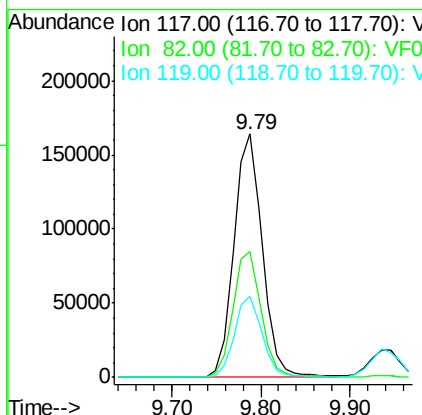
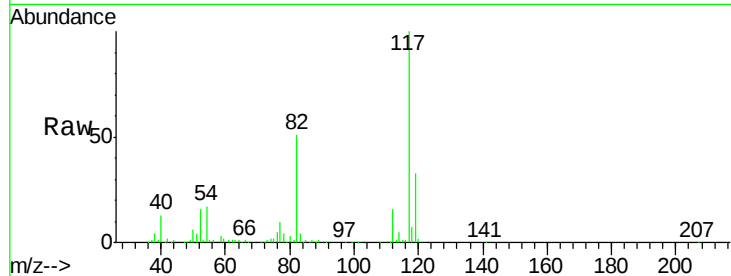
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	365685		
82	51.5	42.6	63.8	
119	33.2	26.0	39.0	

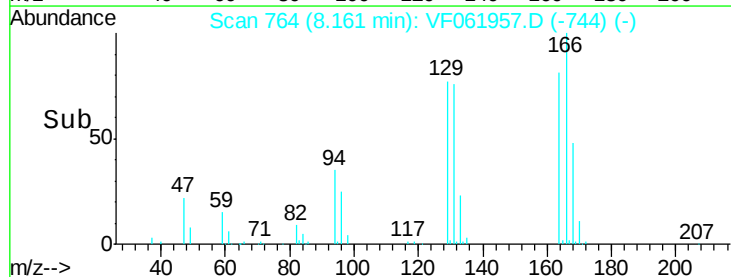
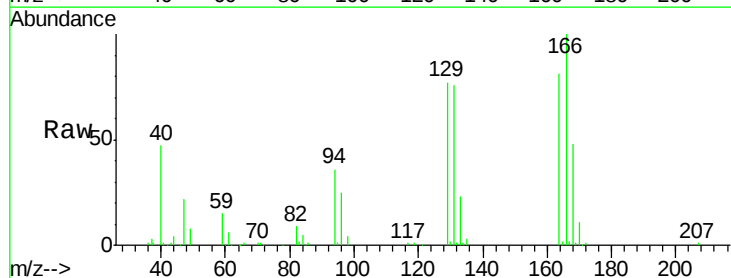
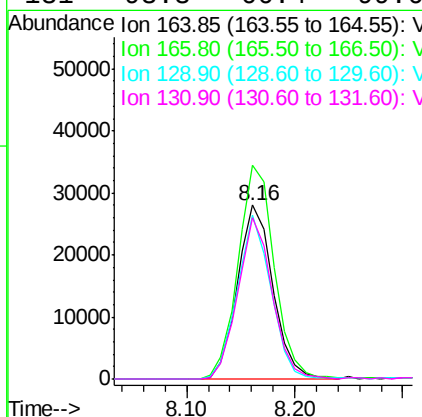
Manual Integrations
APPROVED

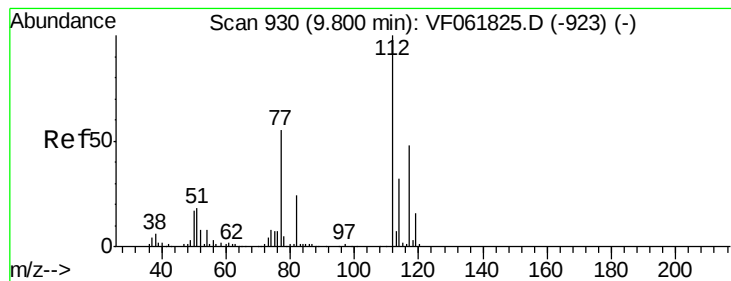
MMDadoda
3/17/2019 5:23:13 AM



#64
Tetrachloroethene
Concen: 22.776 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	63997		
166	123.1	103.4	155.0	
129	94.4	69.9	104.9	
131	93.3	66.4	99.6	





#65

Chlorobenzene

Concen: 22.047 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:112 Resp: 154894

Ion Ratio Lower Upper

112 100

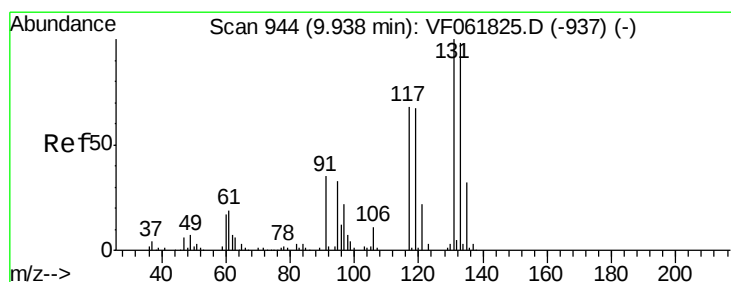
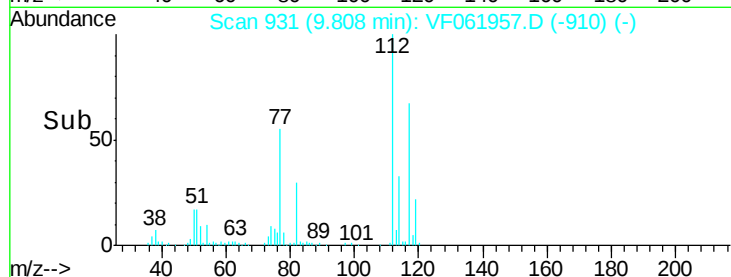
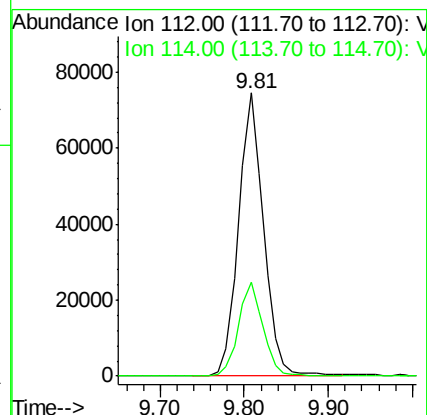
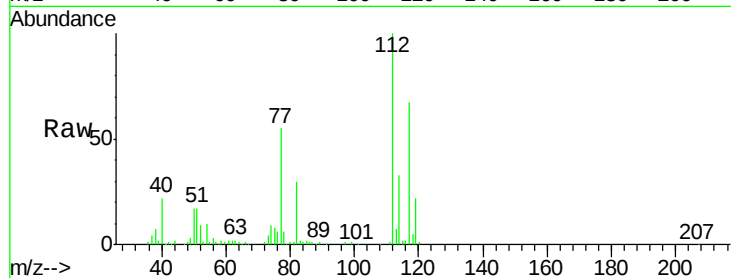
114 33.2 25.5 38.3

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 21.747 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

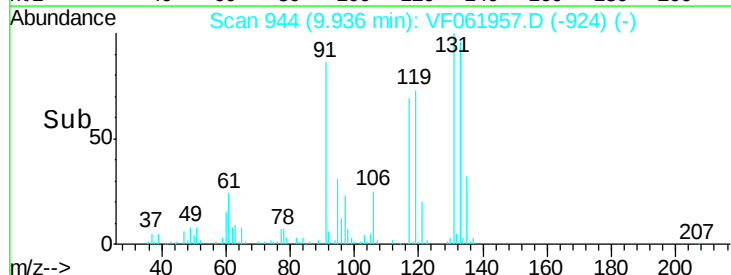
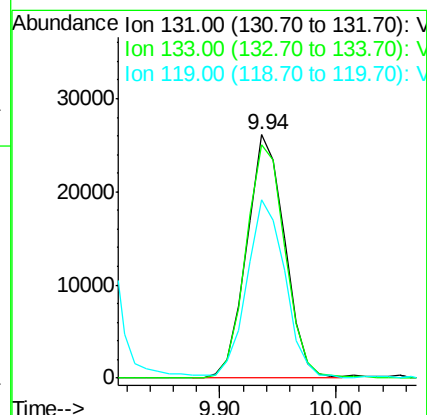
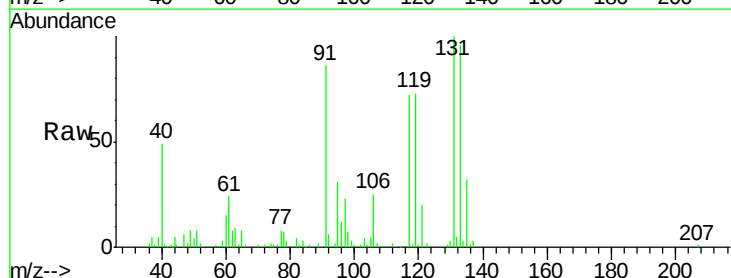
Tgt Ion:131 Resp: 59195

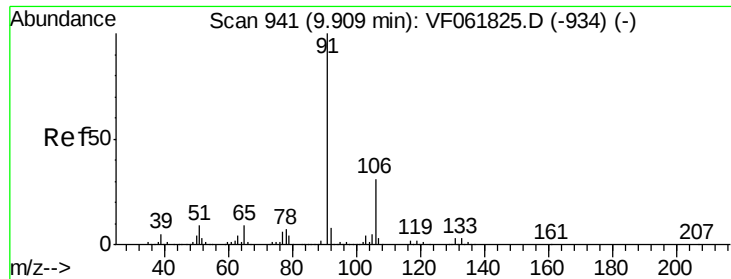
Ion Ratio Lower Upper

131 100

133 95.7 48.9 146.7

119 73.4 33.6 100.8





#67

Ethyl Benzene

Concen: 22.621 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 91 Resp: 263416

Ion Ratio Lower Upper

91 100

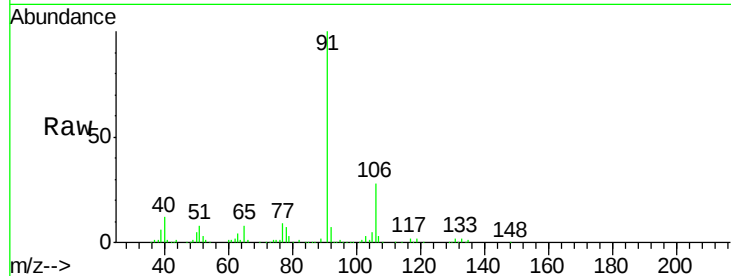
106 28.2 25.0 37.4

Manual Integrations

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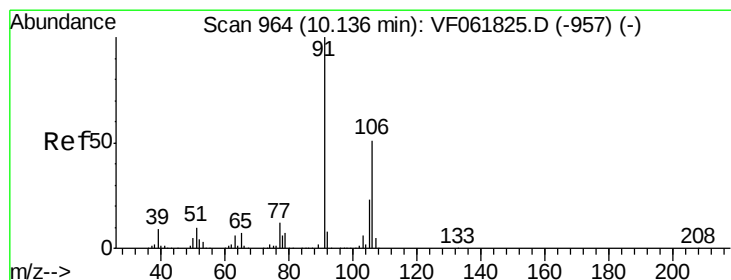
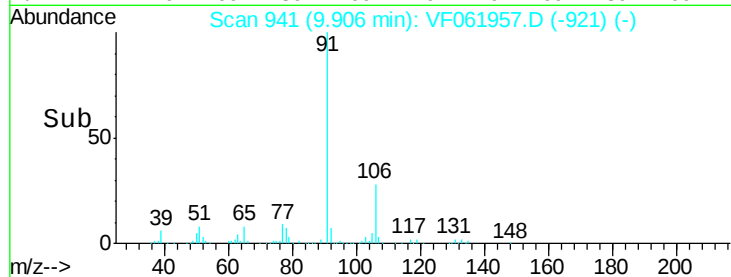
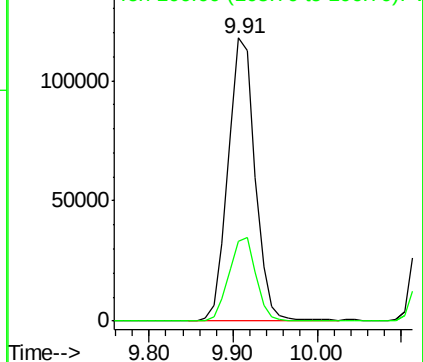
MMDadoda

3/17/2019 5:23:13 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.952 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061957.D

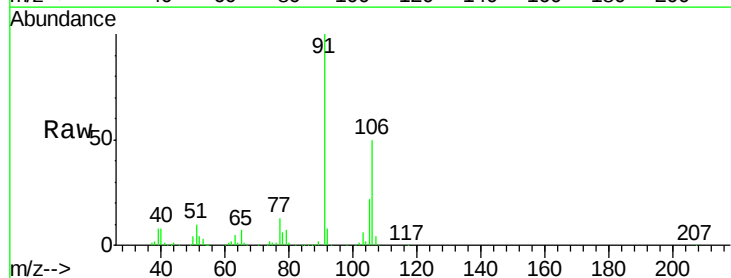
Acq: 15 Mar 2019 13:19

Tgt Ion:106 Resp: 204987

Ion Ratio Lower Upper

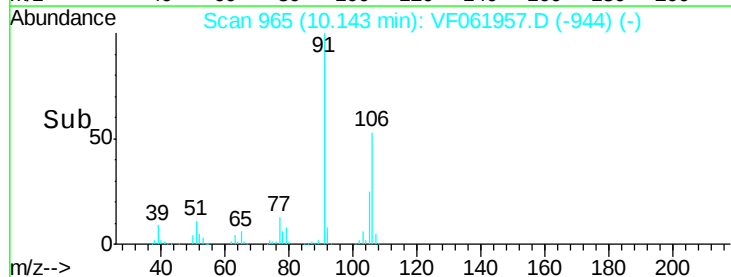
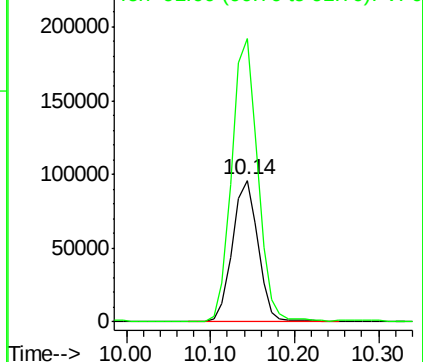
106 100

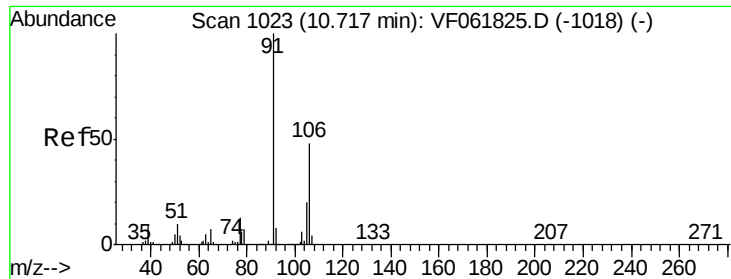
91 199.9 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





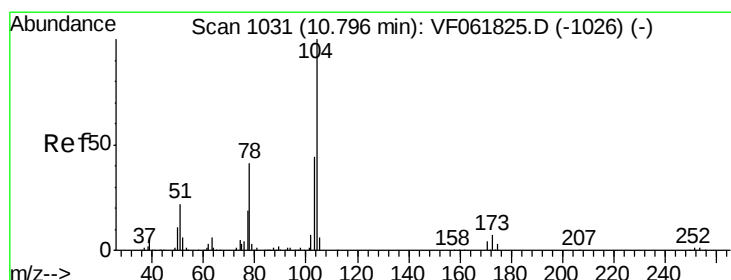
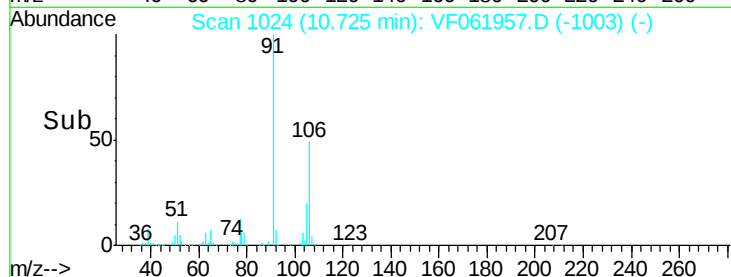
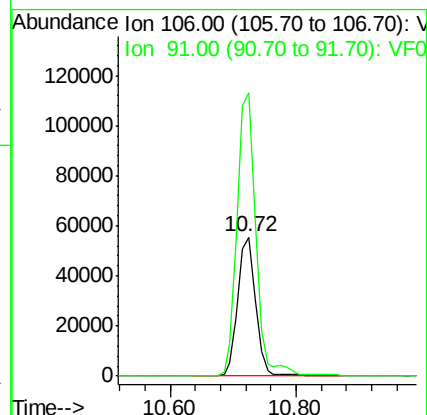
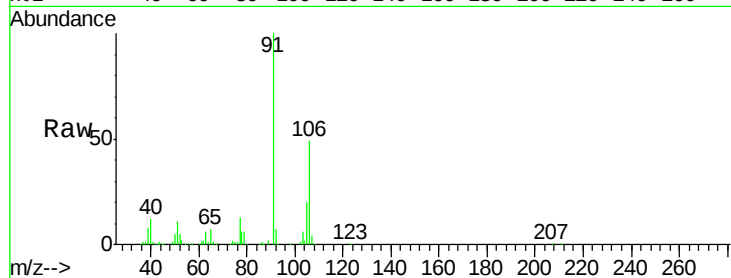
#69
o-Xylene
Concen: 22.646 ug/l
RT: 10.72 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	203.8	103.5	310.3	

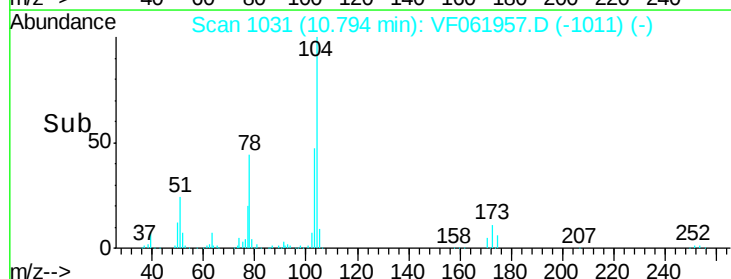
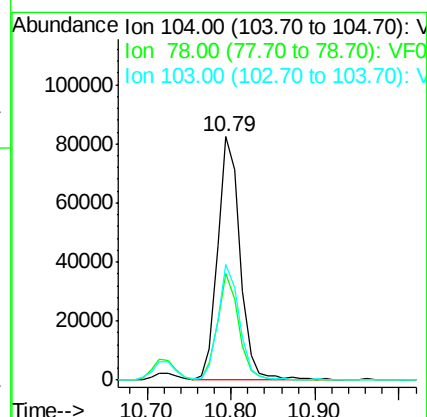
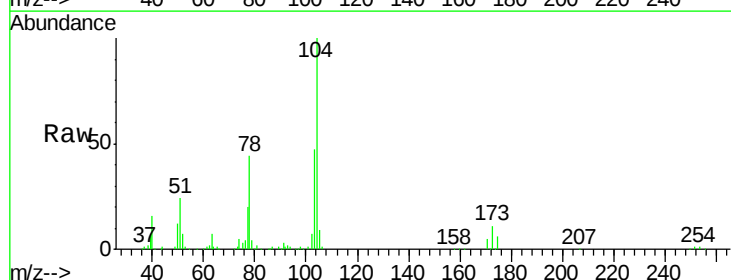
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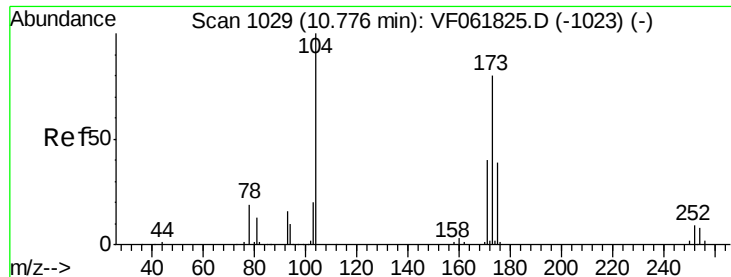
MMDadoda
3/17/2019 5:23:13 AM



#70
Styrene
Concen: 22.403 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	43.6	33.3	49.9	
103	47.4	35.4	53.0	





#71

Bromoform

Concen: 21.248 ug/l

RT: 10.78 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:173 Resp: 30568

Ion Ratio Lower Upper

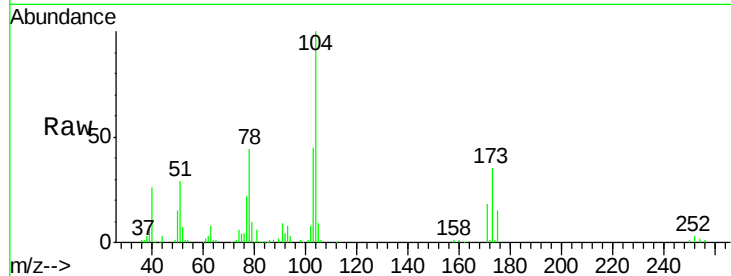
173 100

175 41.7 24.5 73.5

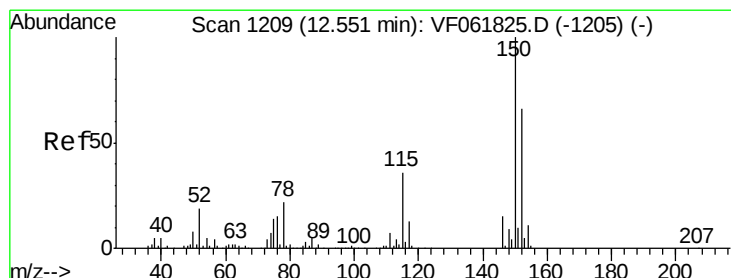
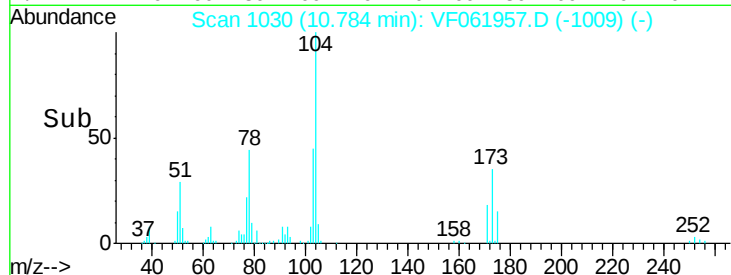
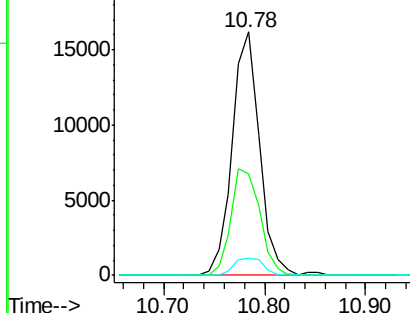
254 7.0 8.0 12.0#

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: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

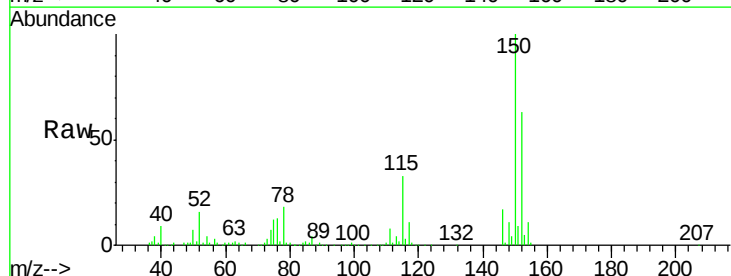
Tgt Ion:152 Resp: 199772

Ion Ratio Lower Upper

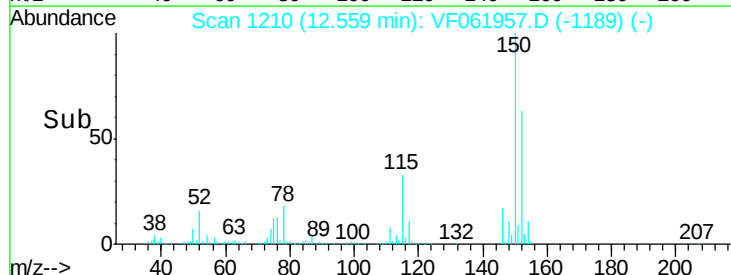
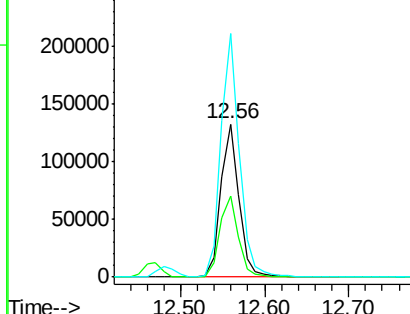
152 100

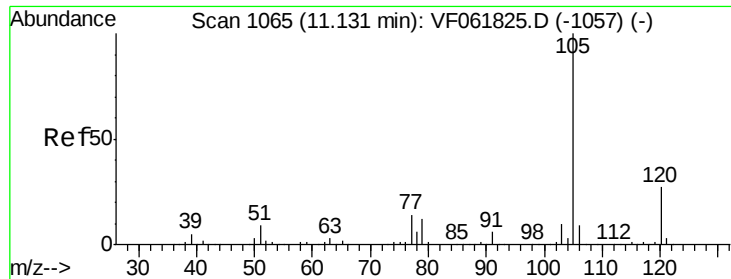
115 53.0 27.7 83.1

150 159.1 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: 22.406 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion: 105 Resp: 308151

Ion Ratio Lower Upper

105 100

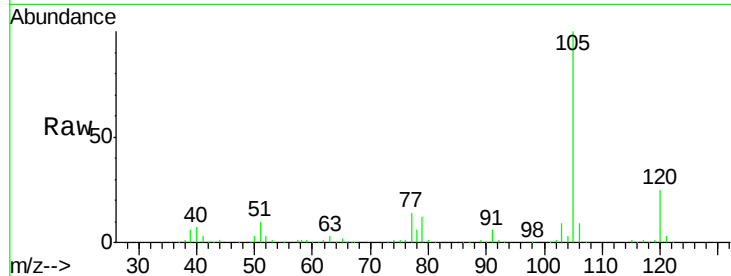
120 25.1 13.7 41.0

Manual Integrations

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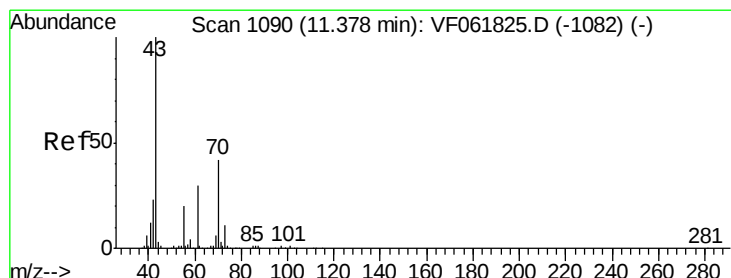
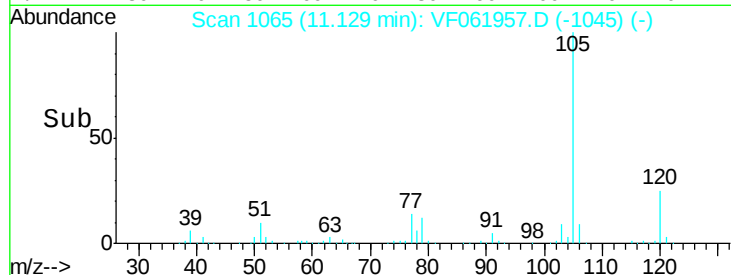
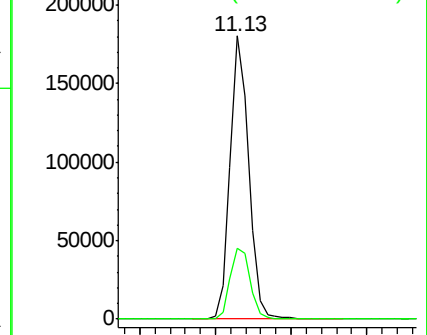
MMDadoda

3/17/2019 5:23:13 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.660 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion: 43 Resp: 71745

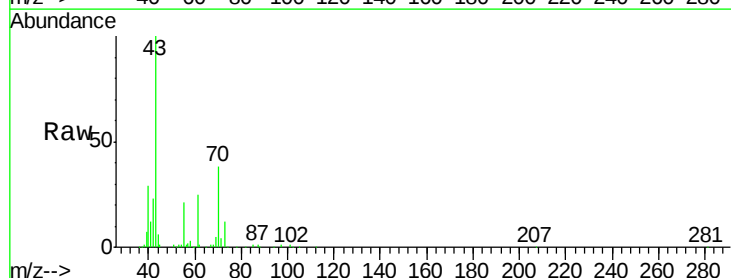
Ion Ratio Lower Upper

43 100

70 37.5 33.4 50.0

55 20.7 16.3 24.5

61 24.7 24.0 36.0

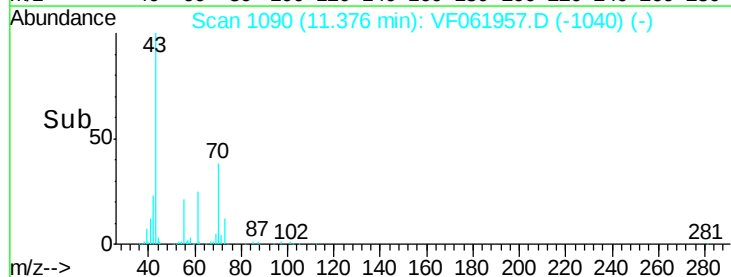
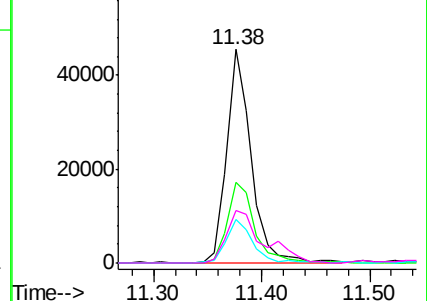


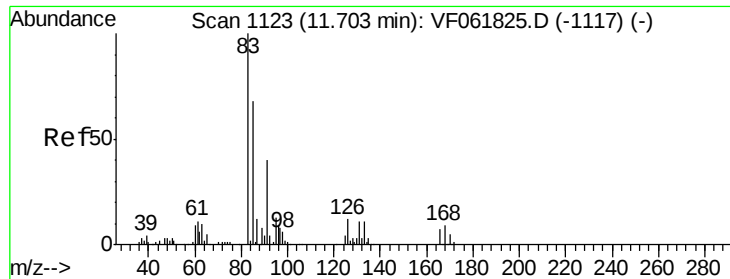
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.818 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

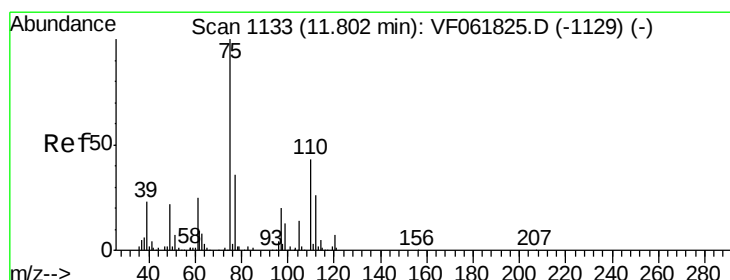
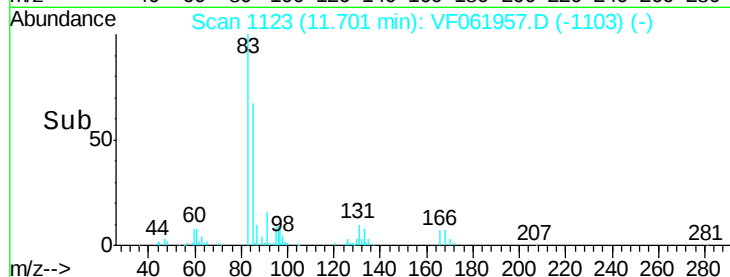
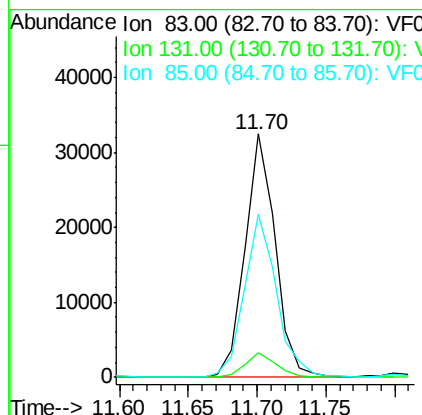
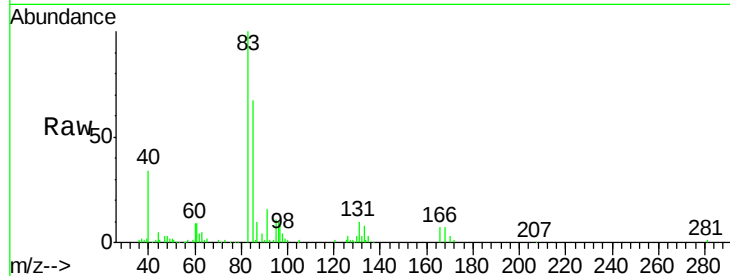
ClientSampleId :

VF0315SBS01

Tot Ion	83	Resp	49873
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.5	16.7
85	67.1	34.2	102.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 23.574 ug/l

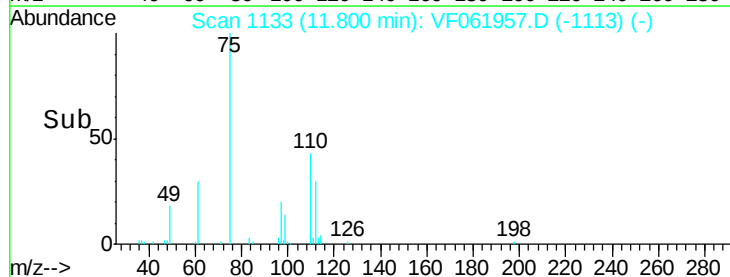
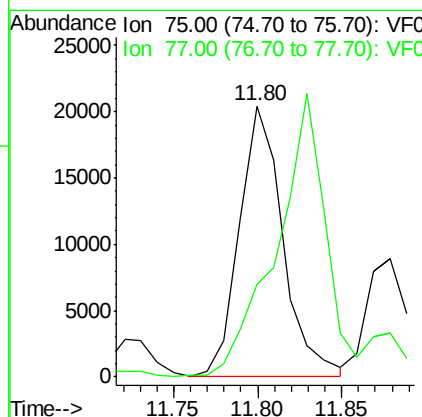
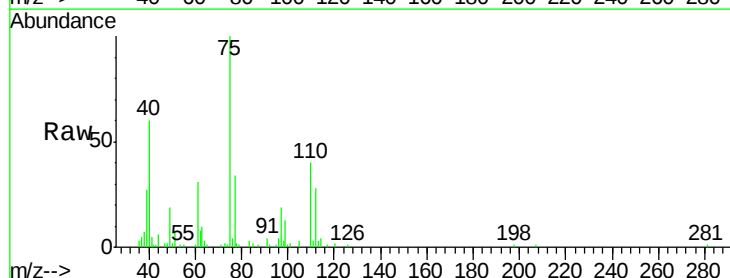
RT: 11.80 min Scan# 1133

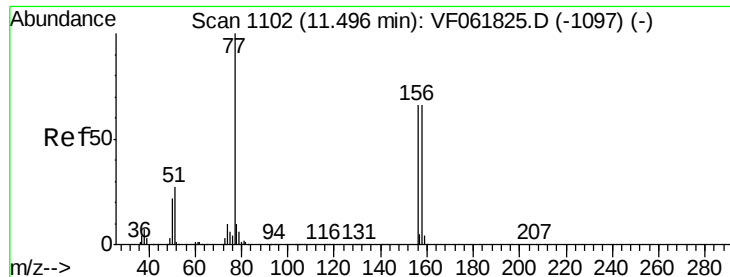
Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion	75	Resp	36778
Ion Ratio	Lower	Upper	
75	100		
77	34.2	18.1	54.4





#77

Bromobenzene

Concen: 21.752 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBS01

Tot Ion:156 Resp: 71999

Ion Ratio Lower Upper

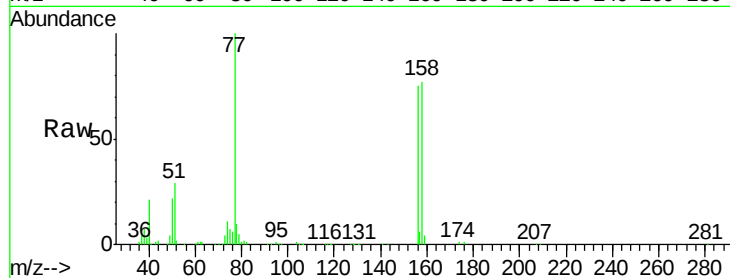
156 100

77 132.6 75.7 227.1

158 102.3 50.0 150.1

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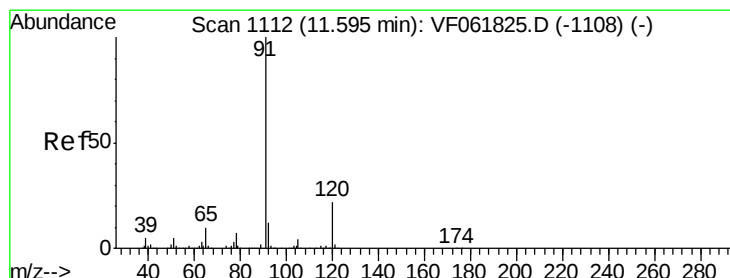
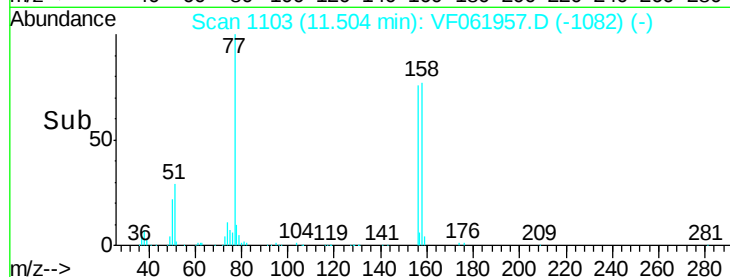
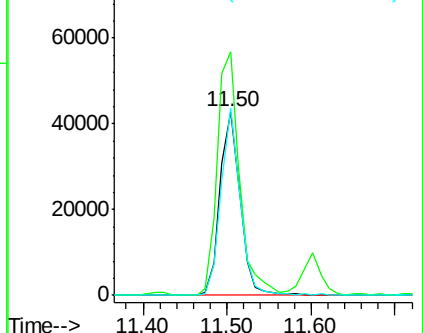
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.481 ug/l

RT: 11.60 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF061957.D

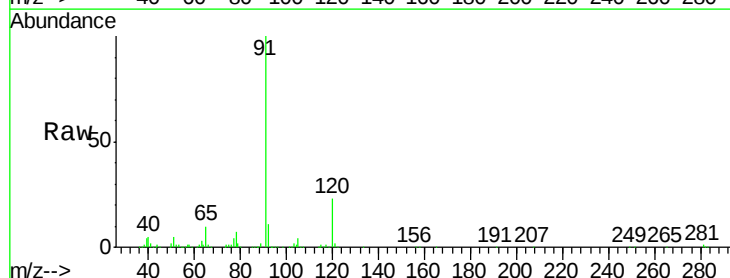
Acq: 15 Mar 2019 13:19

Tgt Ion: 91 Resp: 364698

Ion Ratio Lower Upper

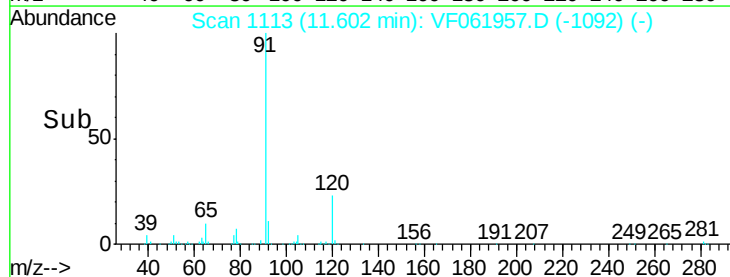
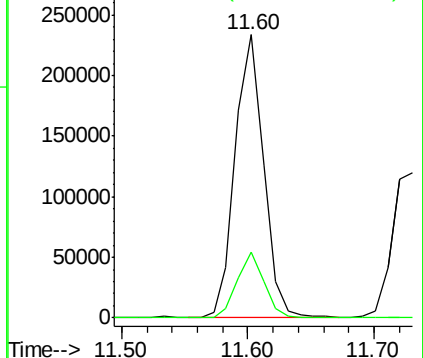
91 100

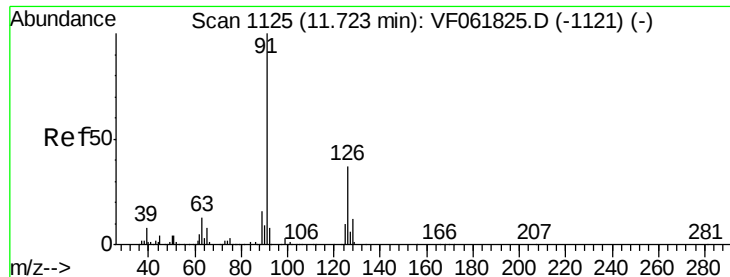
120 23.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





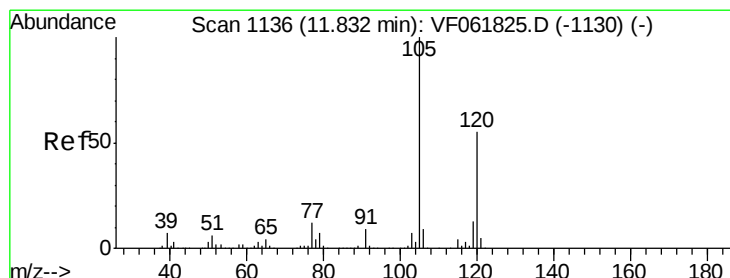
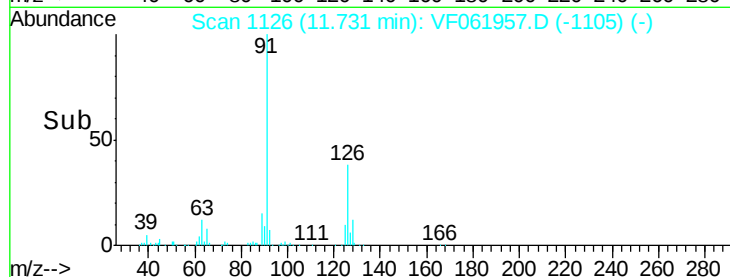
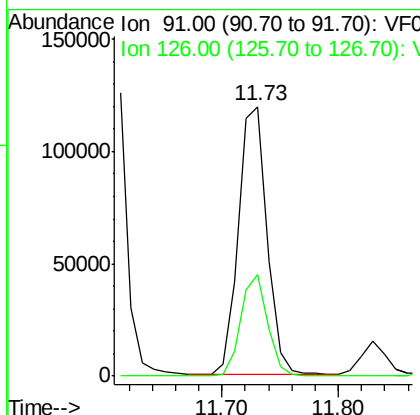
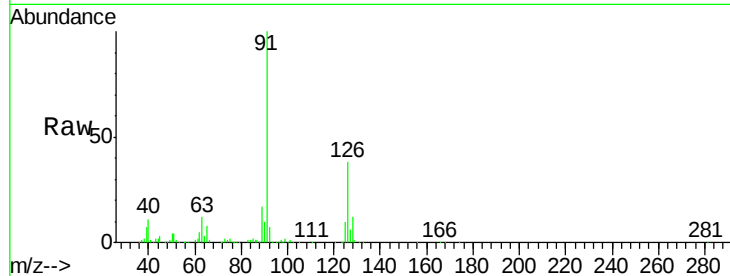
#79
2-Chlorotoluene
Concen: 22.860 ug/l
RT: 11.73 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	37.8	18.1	54.4

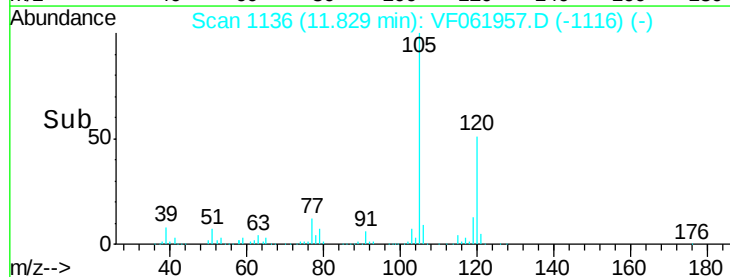
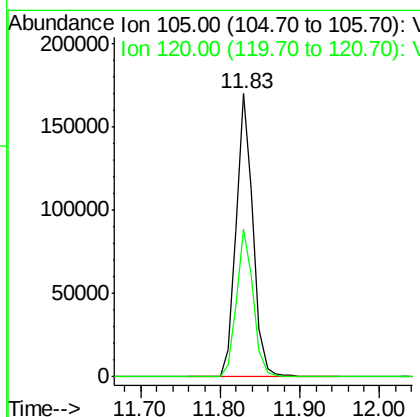
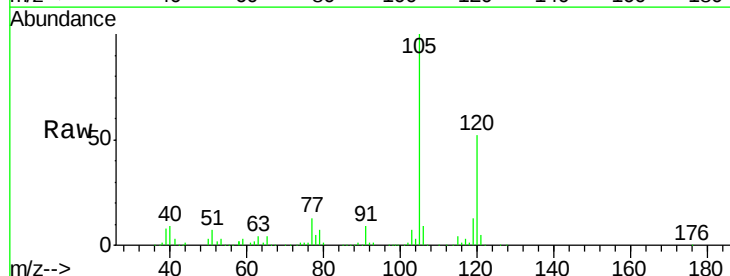
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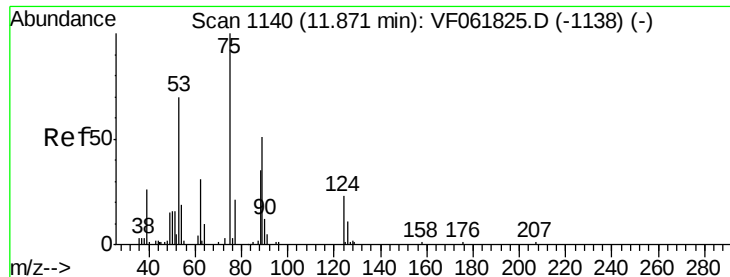
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 22.855 ug/l
RT: 11.83 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	27.4	82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 22.727 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

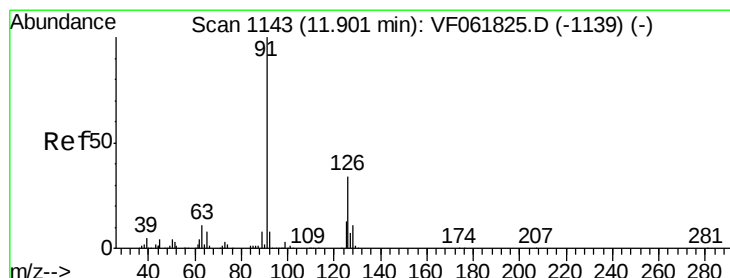
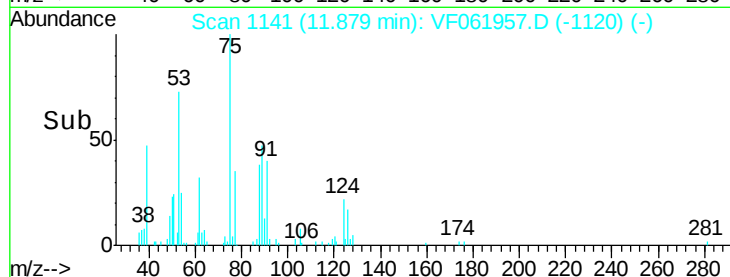
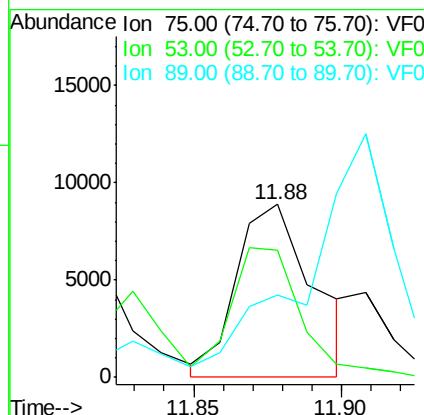
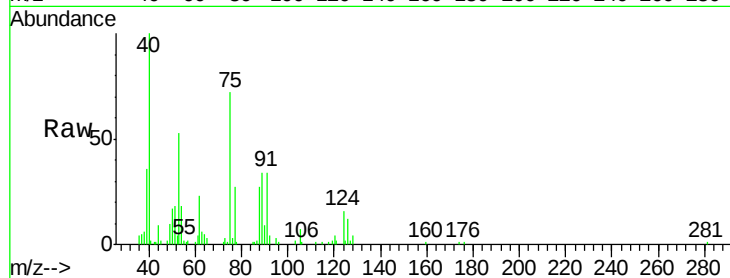
ClientSampleId :

VF0315SBSD01

Tot Ion:	75	Resp:	16213
Ion	Ratio	Lower	Upper
75	100		
53	73.4	58.6	88.0
89	47.4	41.4	62.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 22.197 ug/l

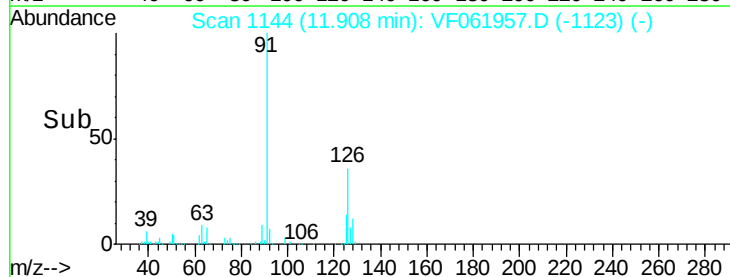
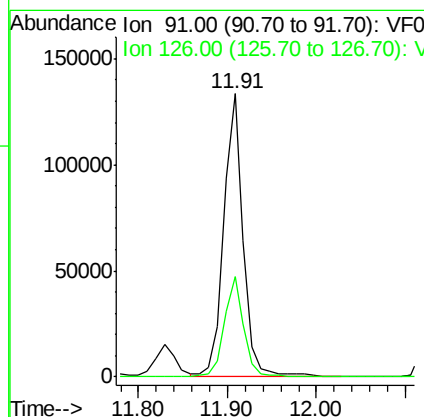
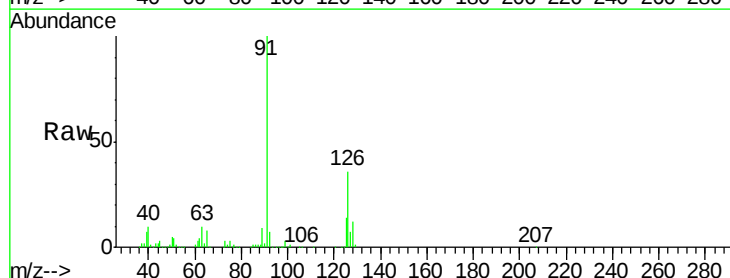
RT: 11.91 min Scan# 1144

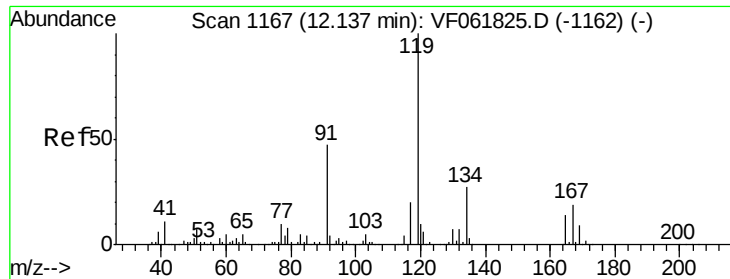
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	91	Resp:	201605
Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.0	50.9





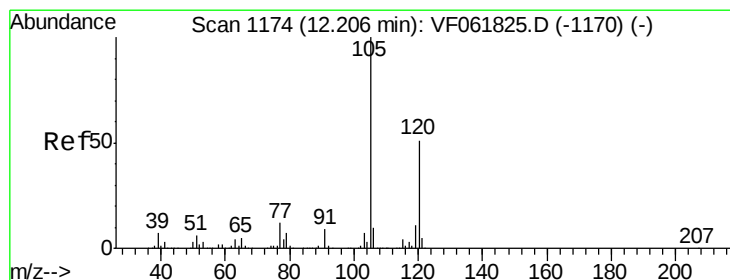
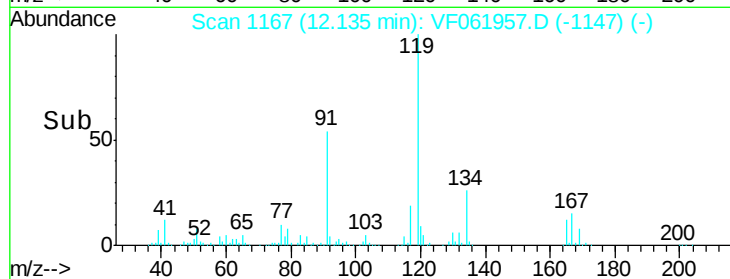
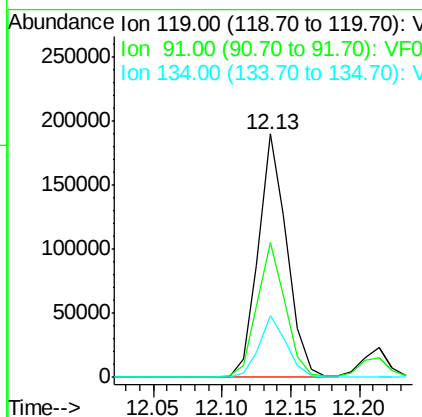
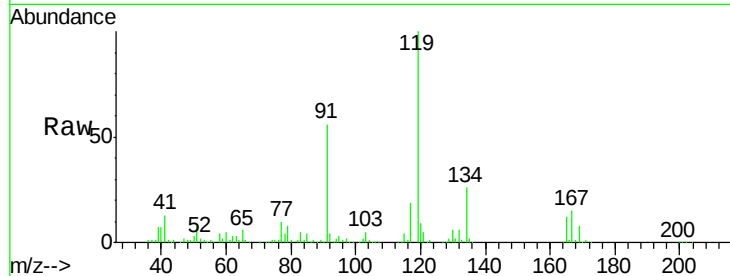
#83
 tert-Butylbenzene
 Concen: 23.636 ug/l
 RT: 12.13 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	277136		
91	55.5	23.5	70.5	
134	25.5	13.3	39.8	

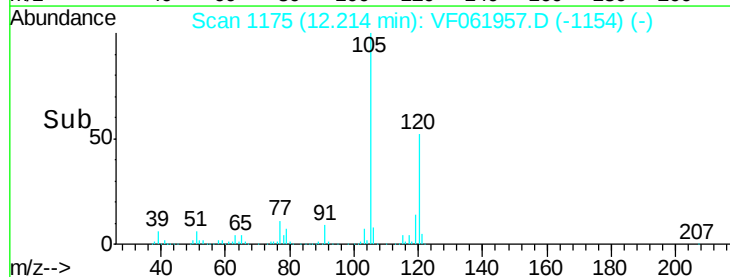
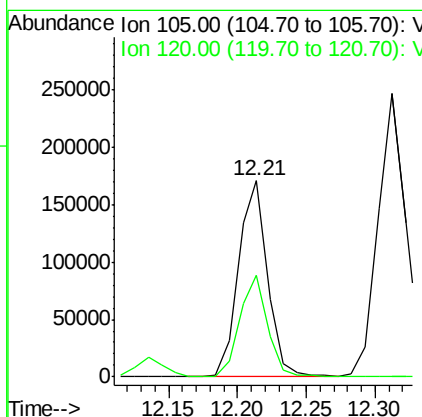
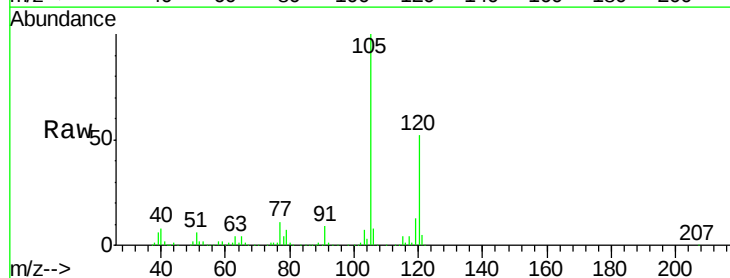
Manual Integrations
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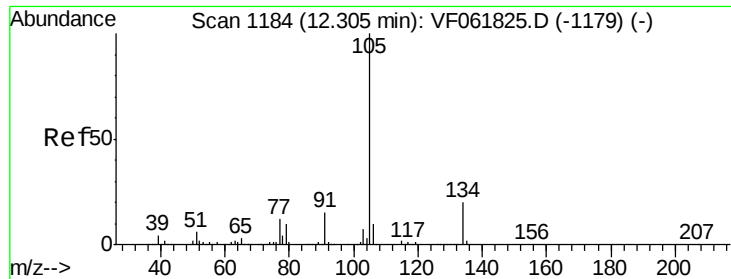
MMDadoda
 3/17/2019 5:23:13 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 23.165 ug/l
 RT: 12.21 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	250757		
120	51.7	25.8	77.4	





#85

sec-Butylbenzene

Concen: 23.133 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

ClientSampleId :

VF0315SBSD01

Tot Ion:105 Resp: 352971

Ion Ratio Lower Upper

105 100

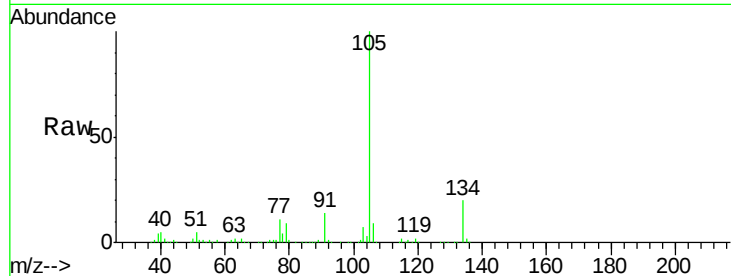
134 20.3 9.8 29.5

Manual Integrations

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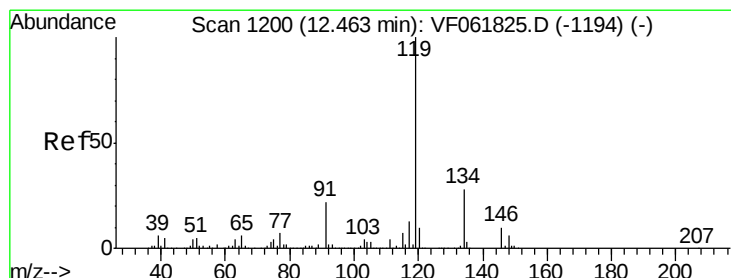
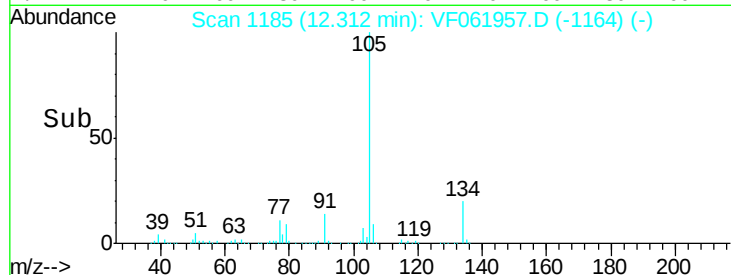
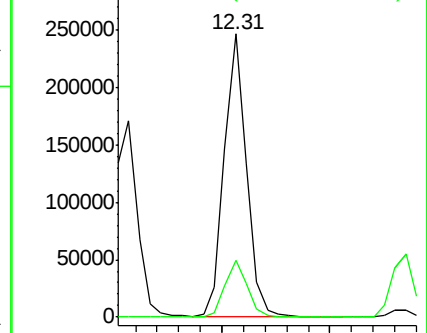
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.764 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

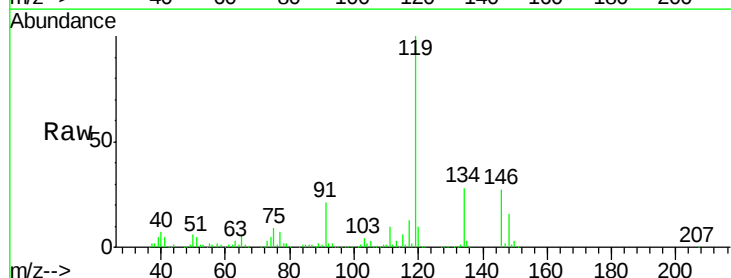
Tgt Ion:119 Resp: 295247

Ion Ratio Lower Upper

119 100

134 28.1 14.0 42.0

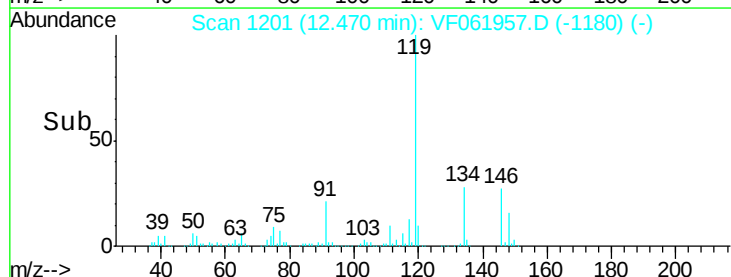
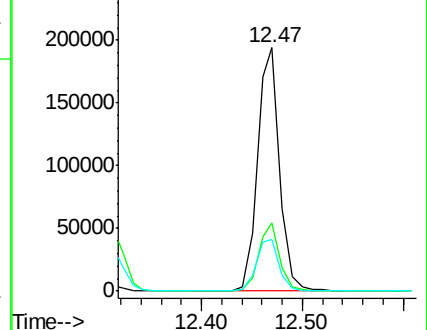
91 21.0 11.1 33.3

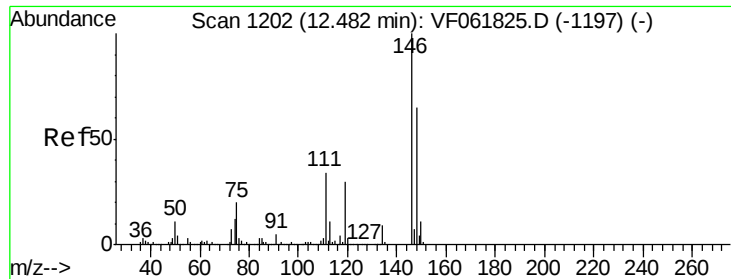


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 23.356 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

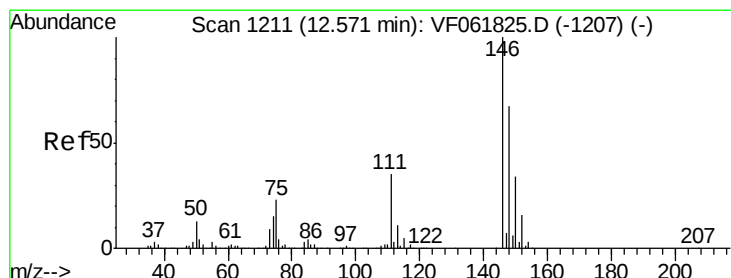
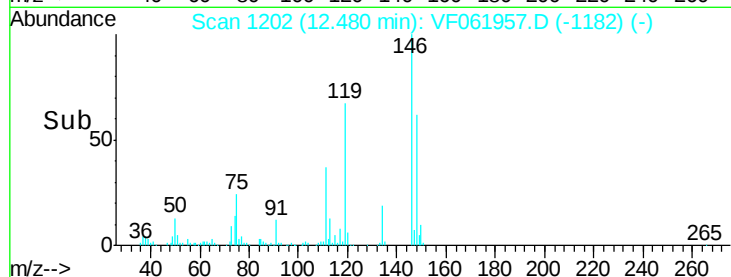
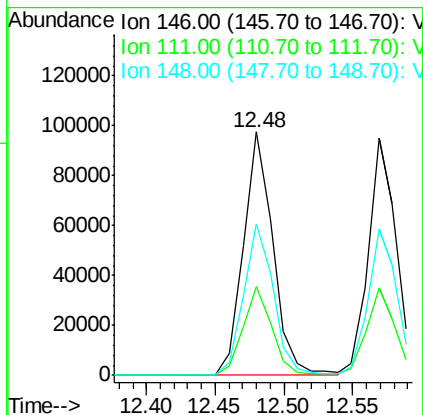
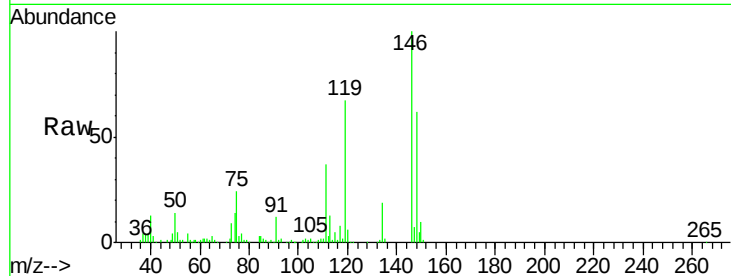
ClientSampleId :

VF0315SBSD01

Tot Ion:	146	Resp:	146794
Ion Ratio	Lower	Upper	
146	100		
111	36.5	17.0	51.0
148	62.0	32.5	97.5

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#88

1,4-Dichlorobenzene

Concen: 22.574 ug/l

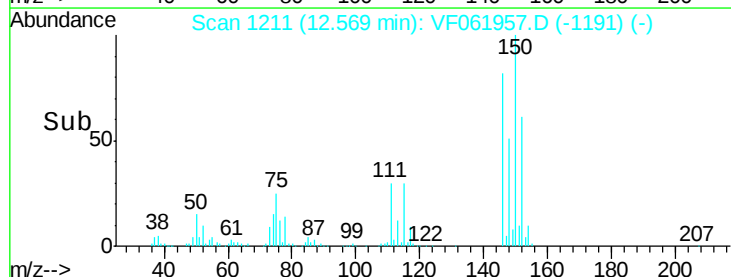
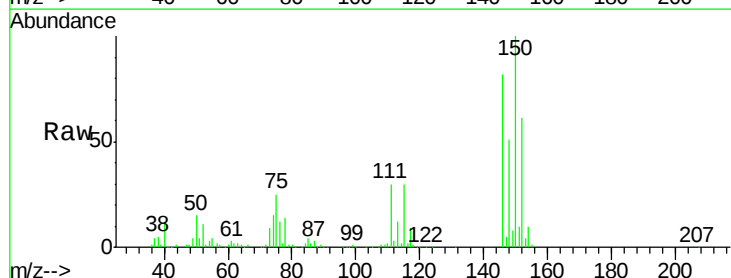
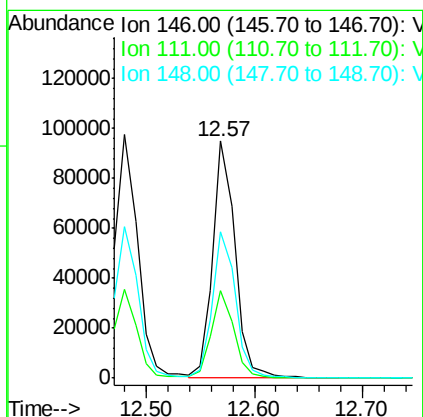
RT: 12.57 min Scan# 1211

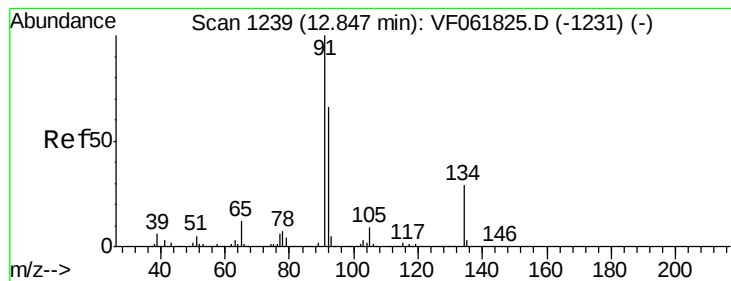
Delta R.T. -0.00 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	146	Resp:	136856
Ion Ratio	Lower	Upper	
146	100		
111	36.7	17.6	52.9
148	62.0	33.5	100.4





#89

n-Butylbenzene

Concen: 24.114 ug/l

RT: 12.85 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Instrument :

MSVOA_F

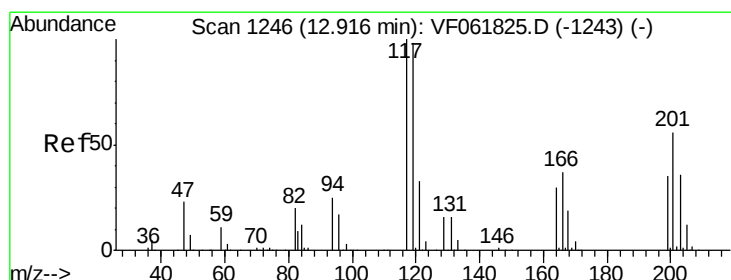
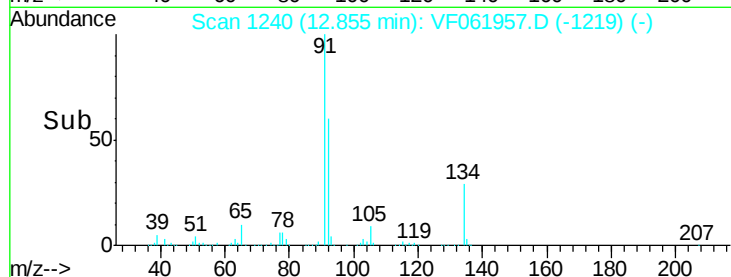
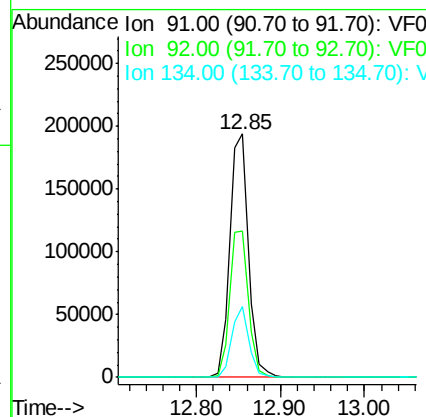
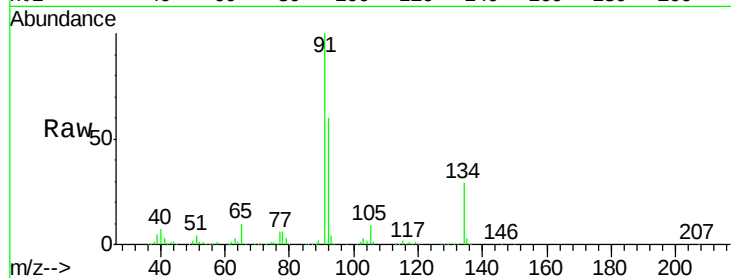
ClientSampleId :

VF0315SBS01

Tot Ion:	91	Resp:	298890
Ion Ratio	Lower	Upper	
91	100		
92	59.9	32.9	98.6
134	29.1	14.5	43.6

Manual Integrations
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#90

Hexachloroethane

Concen: 21.857 ug/l

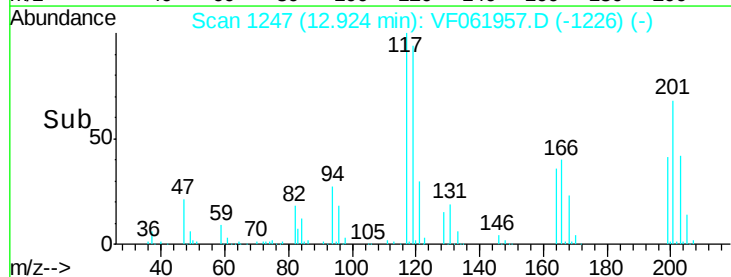
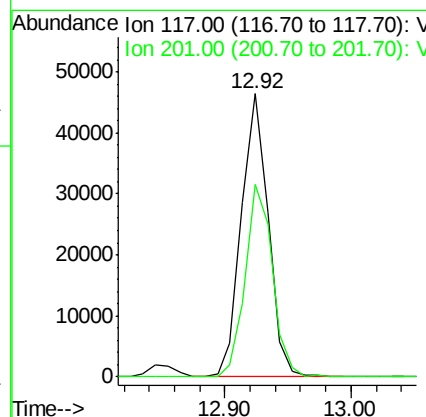
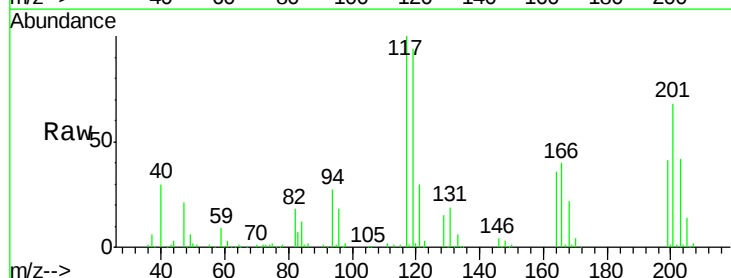
RT: 12.92 min Scan# 1247

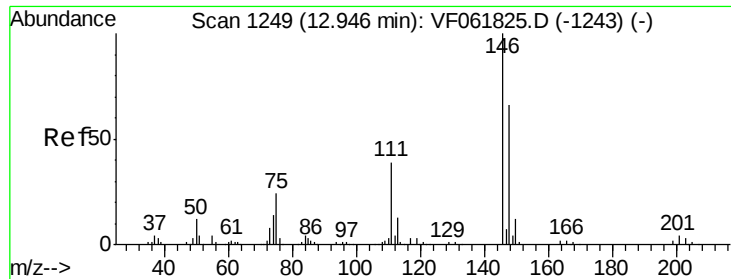
Delta R.T. 0.01 min

Lab File: VF061957.D

Acq: 15 Mar 2019 13:19

Tgt Ion:	117	Resp:	68235
Ion Ratio	Lower	Upper	
117	100		
201	67.8	27.8	83.4





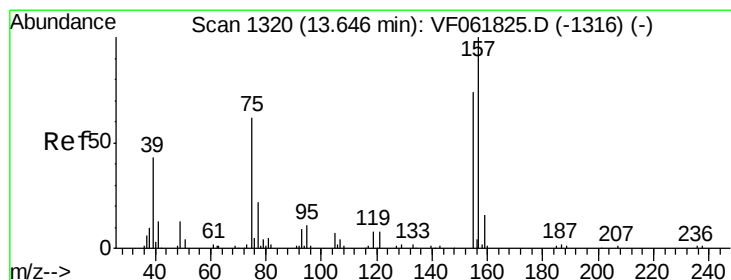
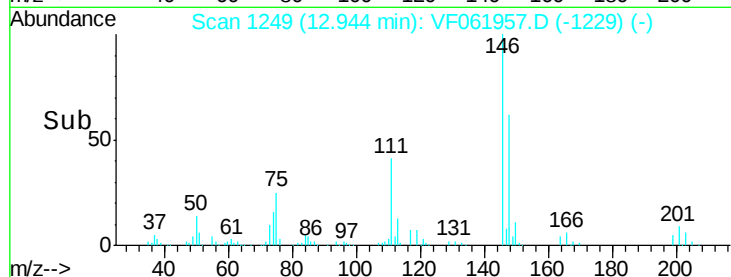
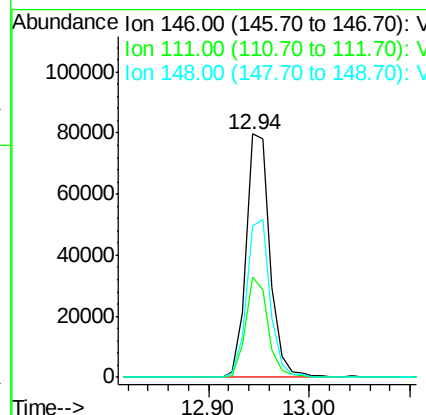
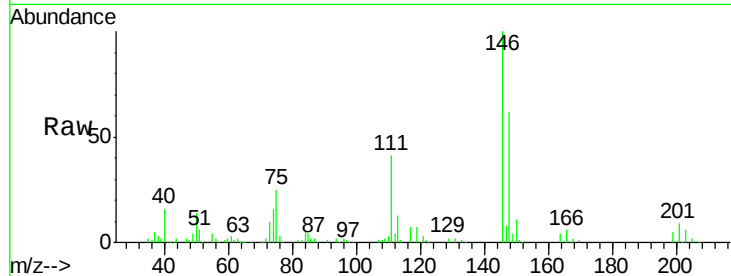
#91
 1,2-Dichlorobenzene
 Concen: 22.097 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.4	58.4
148	62.0	33.0	98.9

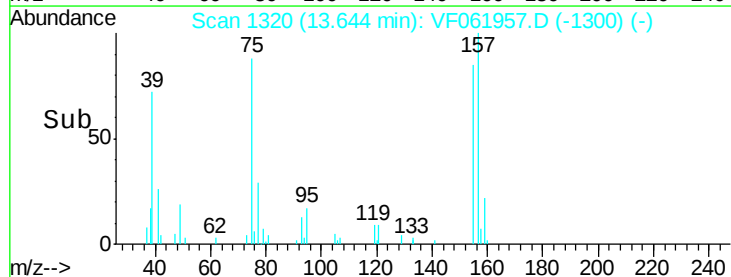
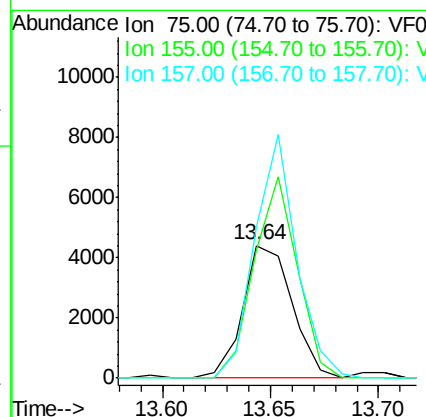
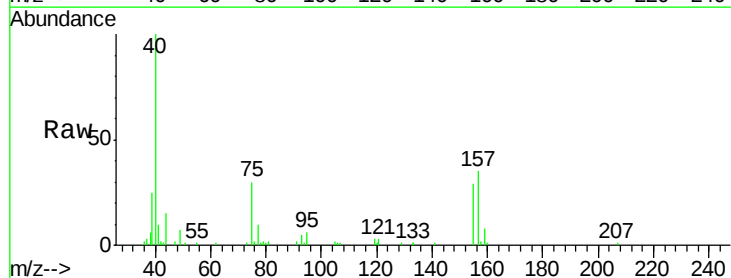
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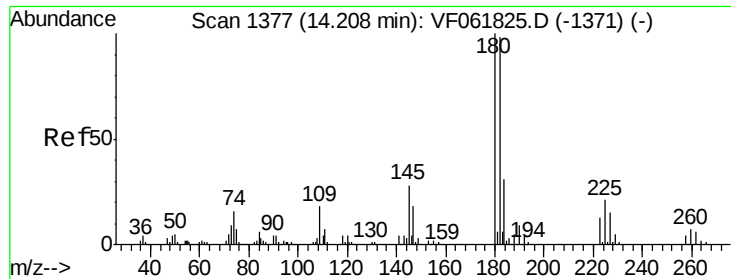
MMDadoda
 3/17/2019 5:23:13 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.090 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.2	59.8	179.4
157	114.1	81.2	243.4





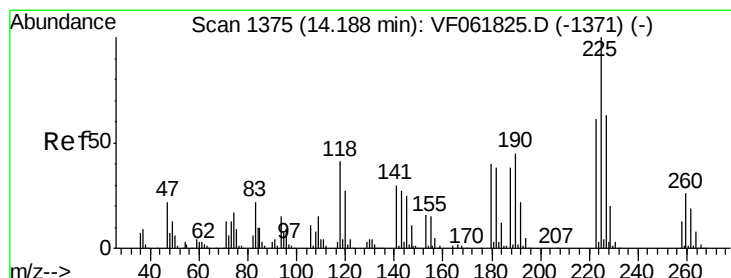
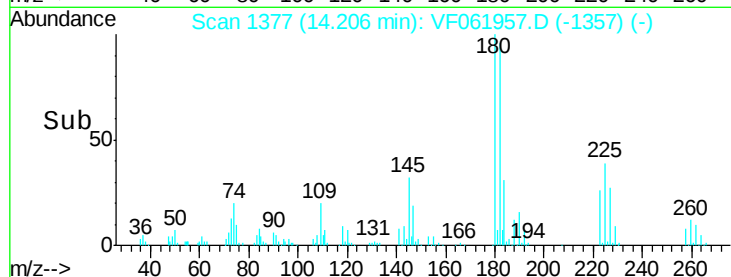
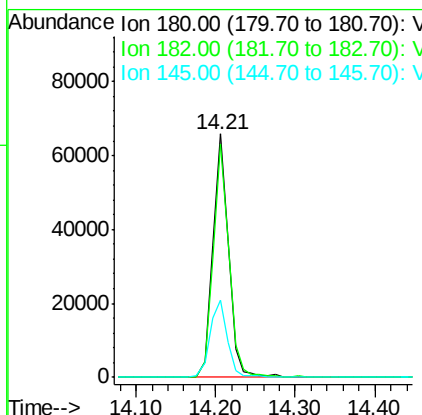
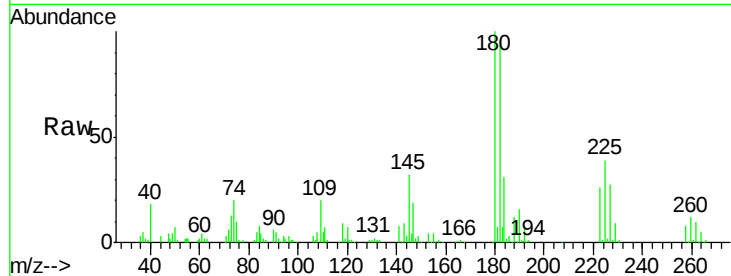
#93
 1,2,4-Trichlorobenzene
 Concen: 22.130 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0315SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	49.0	147.2
145	31.7	14.1	42.4

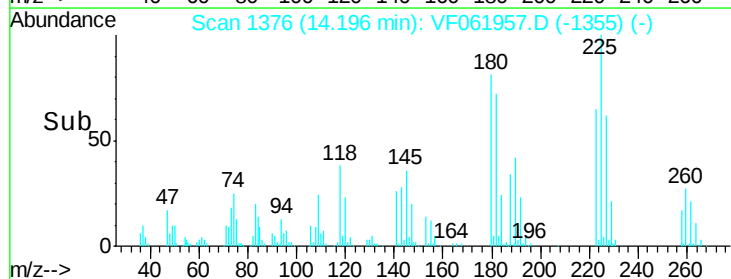
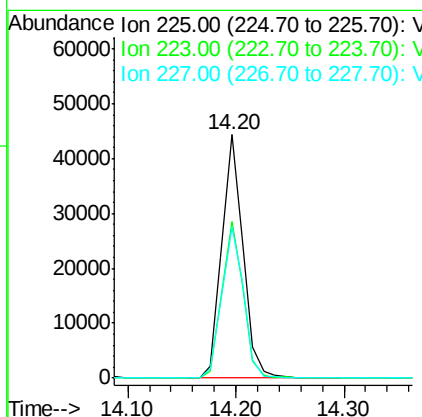
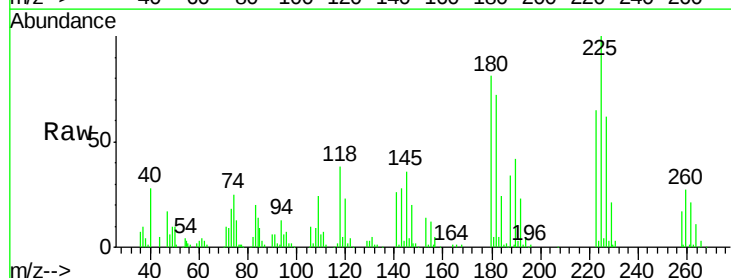
Manual Integrations
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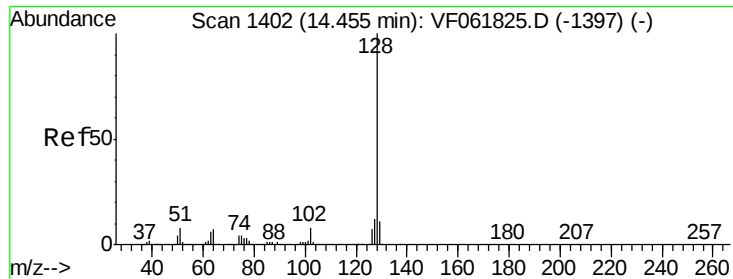
MMDadoda
 3/17/2019 5:23:13 AM



#94
 Hexachlorobutadiene
 Concen: 20.847 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061957.D
 Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.6	30.3	90.9
227	62.2	31.3	93.8





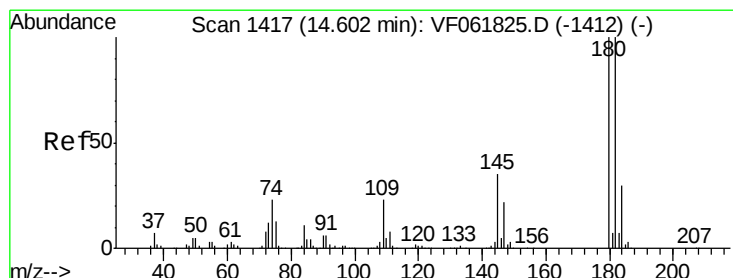
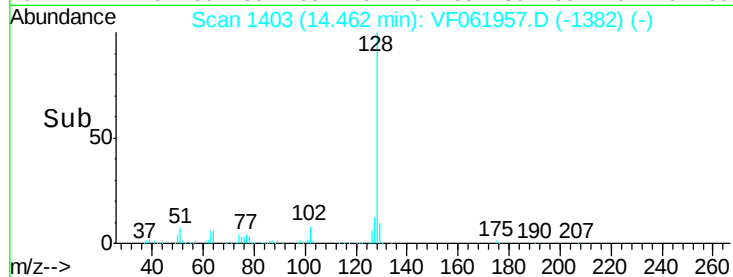
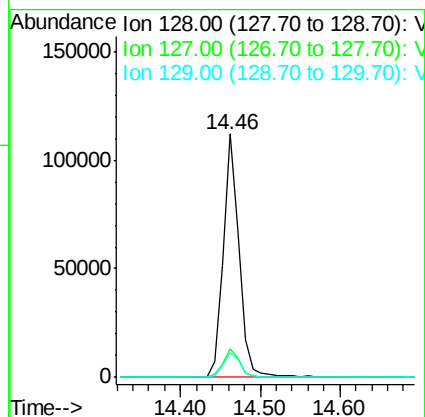
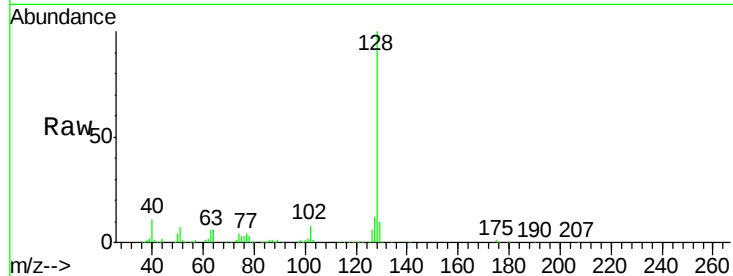
#95
Naphthalene
Concen: 21.281 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Instrument :
MSVOA_F
ClientSampleId :
VF0315SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	158232		
127	11.8	9.3	13.9	
129	10.3	8.8	13.2	

Manual Integrations
APPROVED

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#96
1,2,3-Trichlorobenzene
Concen: 20.878 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. 0.01 min
Lab File: VF061957.D
Acq: 15 Mar 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	80474		
182	95.4	50.2	150.7	
145	31.5	17.5	52.5	

