

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062545.D
 Acq On : 13 May 2019 16:51
 Operator : FY/SY
 Sample : VF0513SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 11:21:25 AM

Quant Time: May 14 07:35:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	349583	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	447614	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	401149	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	260495	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.06	65	144600	43.77	ug/l	0.04
Spiked Amount	50.000		Recovery	=	87.54%	
35) Dibromofluoromethane	4.33	113	165558	46.43	ug/l	0.03
Spiked Amount	50.000		Recovery	=	92.86%	
50) Toluene-d8	7.73	98	387777	44.92	ug/l	0.03
Spiked Amount	50.000		Recovery	=	89.84%	
62) 4-Bromofluorobenzene	11.51	95	184067	47.26	ug/l	0.02
Spiked Amount	50.000		Recovery	=	94.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	92720	22.917	ug/l	94
3) Chloromethane	1.16	50	54259	20.334	ug/l	99
4) Vinyl Chloride	1.20	62	55754	20.948	ug/l	94
5) Bromomethane	1.39	94	47092	22.045	ug/l	85
6) Chloroethane	1.44	64	30433	22.743	ug/l	89
7) Trichlorofluoromethane	1.56	101	134027	24.270	ug/l	100
8) Diethyl Ether	1.72	74	16838	20.151	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.92	101	73502	23.314	ug/l	97
10) Methyl Iodide	1.98	142	126832	24.412	ug/l	99
11) Tert butyl alcohol	2.71	59	15984	85.606	ug/l #	91
12) 1,1-Dichloroethene	1.88	96	58112	21.682	ug/l	97
13) Acrolein	2.11	56	10475	76.072	ug/l	98
14) Allyl chloride	2.21	41	87041	36.764	ug/l	96
15) Acrylonitrile	3.10	53	40057	113.255	ug/l	96
16) Acetone	2.36	43	72843	108.995	ug/l	98
17) Carbon Disulfide	1.93	76	127909	21.887	ug/l	97
18) Methyl Acetate	2.47	43	29146	22.171	ug/l	100
19) Methyl tert-butyl Ether	2.57	73	117459	21.230	ug/l	98
20) Methylene Chloride	2.34	84	55191m	22.825	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	57070	22.349	ug/l	91
22) Diisopropyl ether	2.95	45	165717	22.395	ug/l	95
23) Vinyl Acetate	3.36	43	347281	105.301	ug/l	98
24) 1,1-Dichloroethane	3.03	63	104564	23.381	ug/l	98
25) 2-Butanone	4.55	43	83403	99.334	ug/l #	88
26) 2,2-Dichloropropane	3.80	77	73241	29.326	ug/l	100
27) cis-1,2-Dichloroethene	3.67	96	69059	21.635	ug/l	97
28) Bromochloromethane	3.93	49	39577	19.513	ug/l #	1
29) Tetrahydrofuran	4.30	42	36936	95.717	ug/l	99
30) Chloroform	4.07	83	147013	24.332	ug/l	100
31) Cyclohexane	3.91	56	82151	23.014	ug/l	100
32) 1,1,1-Trichloroethane	4.32	97	130312	25.165	ug/l	99
36) 1,1-Dichloropropene	4.50	75	86937	22.609	ug/l	98
37) Ethyl Acetate	4.32	43	37154	21.847	ug/l #	93
38) Carbon Tetrachloride	4.20	117	120768	29.119	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	85003	22.042	ug/l	96
40) Benzene	4.85	78	199103	23.514	ug/l	99
41) Methacrylonitrile	4.96	41	17826	19.334	ug/l	92
42) 1,2-Dichloroethane	5.15	62	86290	24.367	ug/l	100
43) Isopropyl Acetate	7.14	43	31959	18.273	ug/l #	100
44) Trichloroethene	5.71	130	75049	24.128	ug/l	94
45) 1,2-Dichloropropane	6.44	63	44534	23.221	ug/l	99
46) Dibromomethane	6.28	93	35033	22.031	ug/l	93
47) Bromodichloromethane	6.58	83	90908	22.866	ug/l	96
48) Methyl methacrylate	6.90	41	23359	18.899	ug/l	90
49) 1,4-Dioxane	6.90	88	4285	328.311	ug/l	90
51) 4-Methyl-2-Pentanone	8.42	43	143734	108.456	ug/l	99
52) Toluene	7.80	92	125718	24.068	ug/l	98
53) t-1,3-Dichloropropene	8.45	75	70126	23.322	ug/l	100
54) cis-1,3-Dichloropropene	7.49	75	83504	23.862	ug/l	96
55) 1,1,2-Trichloroethane	8.66	97	40028	24.139	ug/l	94
56) Ethyl methacrylate	8.78	69	36973	21.122	ug/l	93
57) 1,3-Dichloropropane	9.01	76	60361	24.099	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.47	63	56607	107.566	ug/l	99
59) 2-Hexanone	9.64	43	105561	115.171	ug/l	95
60) Dibromochloromethane	8.88	129	65464	24.138	ug/l	98
61) 1,2-Dibromoethane	9.15	107	42708	21.914	ug/l	93
64) Tetrachloroethene	8.32	164	75214	23.096	ug/l	98
65) Chlorobenzene	9.95	112	156981	23.651	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.08	131	78138	23.337	ug/l	99
67) Ethyl Benzene	10.05	91	278327	23.947	ug/l	100
68) m/p-Xylenes	10.27	106	197825	46.132	ug/l	97
69) o-Xylene	10.84	106	112053	24.182	ug/l	96
70) Styrene	10.91	104	162926	23.461	ug/l	99
71) Bromoform	10.90	173	40479	22.067	ug/l #	94
73) Isopropylbenzene	11.23	105	345518	22.374	ug/l	99
74) N-amyl acetate	11.46	43	59822	18.043	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.78	83	52262	21.614	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	39704	21.522	ug/l #	100
77) Bromobenzene	11.60	156	93915	23.172	ug/l	98
78) n-propylbenzene	11.68	91	394028	23.965	ug/l	99
79) 2-Chlorotoluene	11.81	91	232887	22.779	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	314573	23.240	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	13529m	19.510	ug/l	
82) 4-Chlorotoluene	11.98	91	229143	22.693	ug/l	99
83) tert-Butylbenzene	12.21	119	318408	22.383	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	304401	22.980	ug/l	100
85) sec-Butylbenzene	12.38	105	395806	22.859	ug/l	99
86) p-Isopropyltoluene	12.53	119	374845	23.301	ug/l	100
87) 1,3-Dichlorobenzene	12.55	146	171489	23.167	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	166186	23.261	ug/l	99
89) n-Butylbenzene	12.91	91	330530	23.094	ug/l	99
90) Hexachloroethane	12.99	117	85986	21.407	ug/l	94
91) 1,2-Dichlorobenzene	13.01	146	165279	23.069	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.70	75	10444	19.280	ug/l	92

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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	144390	22.468	ug/l	98
94) Hexachlorobutadiene	14.24	225	106507	22.236	ug/l	98
95) Naphthalene	14.50	128	188454	19.506	ug/l	100
96) 1,2,3-Trichlorobenzene	14.65	180	138155	22.190	ug/l	96

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

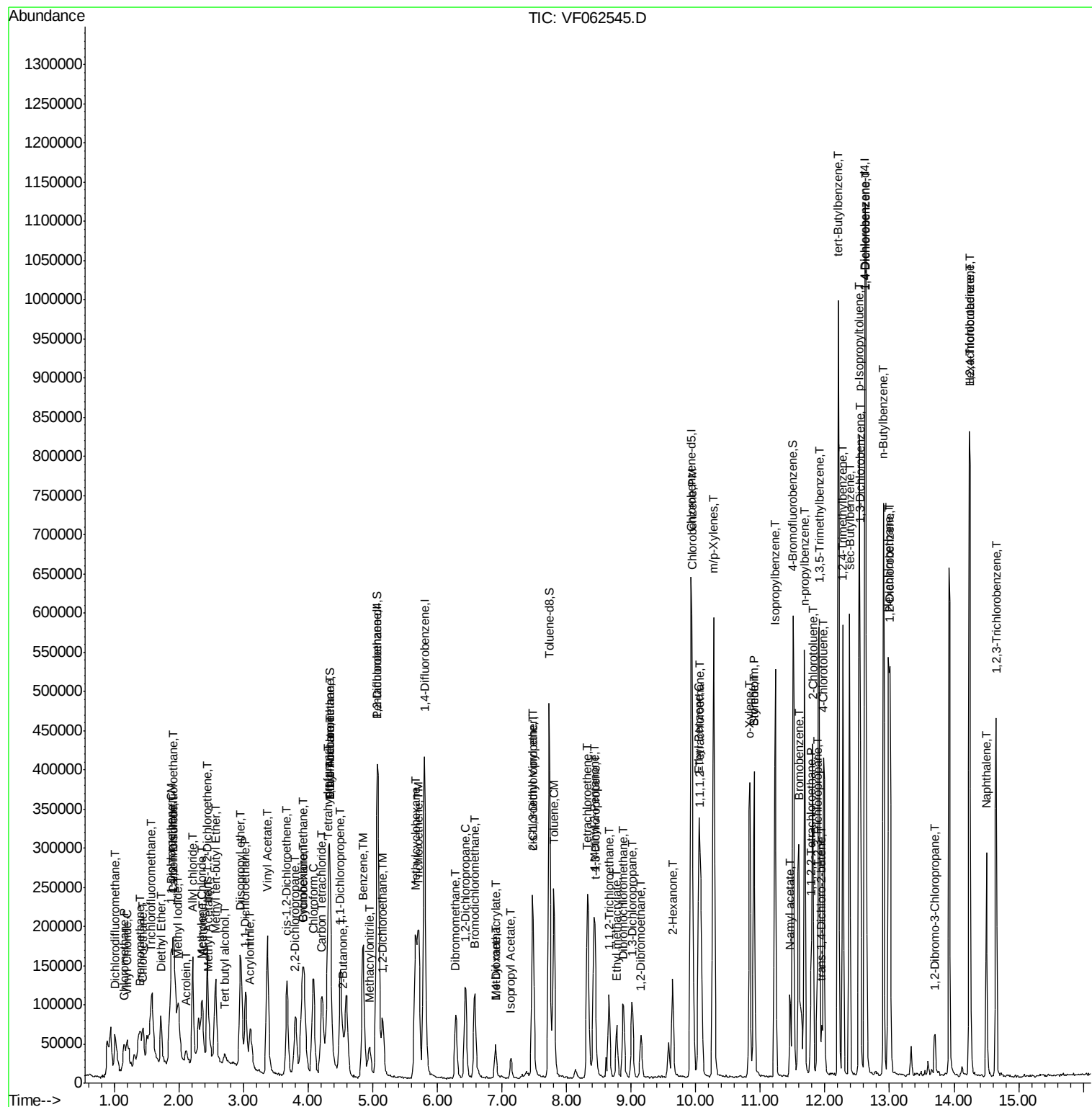
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 Sample : VF0513SBSD01
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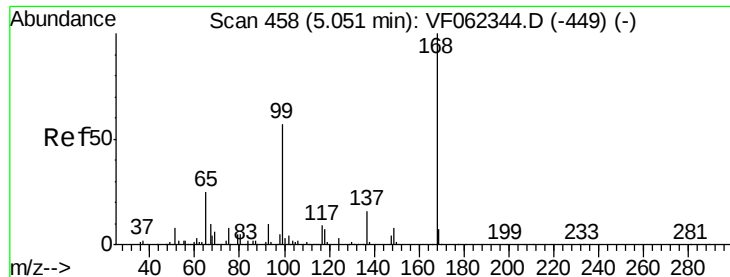
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBSD01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion:168 Resp: 349583

Ion Ratio Lower Upper

168 100

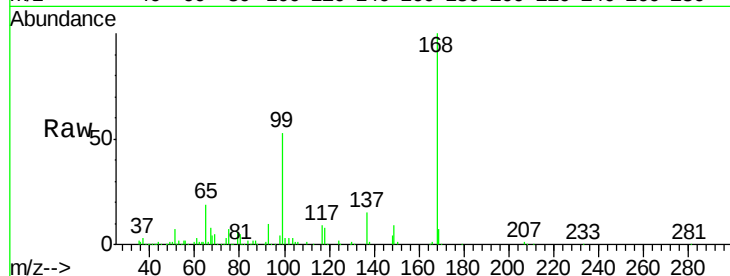
99 52.7 45.9 68.9

Manual Integrations

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5/14/2019 11:21:25 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

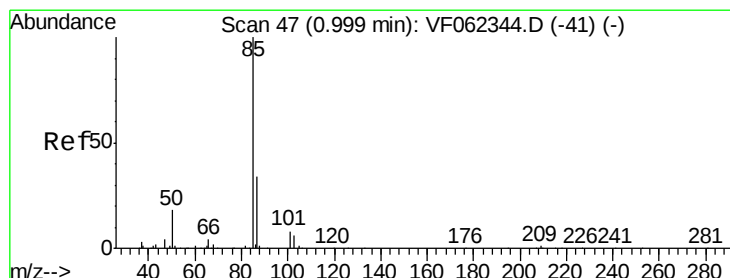
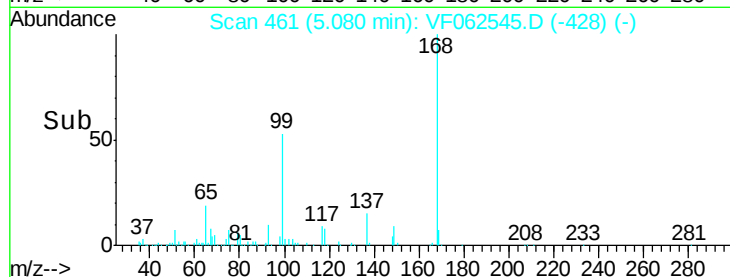
5.08

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 22.917 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062545.D

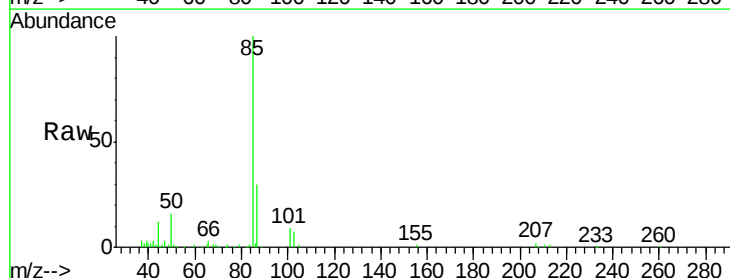
Acq: 13 May 2019 16:51

Tgt Ion: 85 Resp: 92720

Ion Ratio Lower Upper

85 100

87 30.4 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

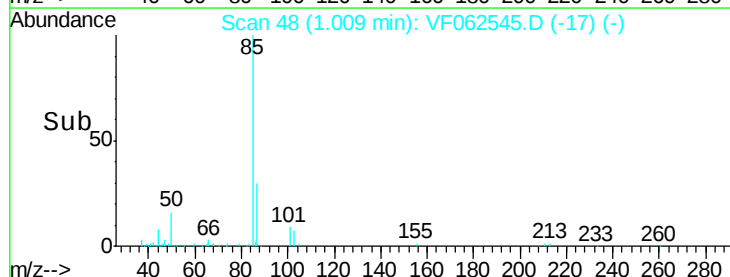
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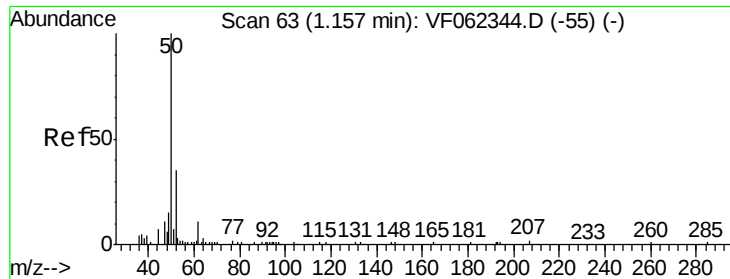
20000

10000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 20.334 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 50 Resp: 54259

Ion Ratio Lower Upper

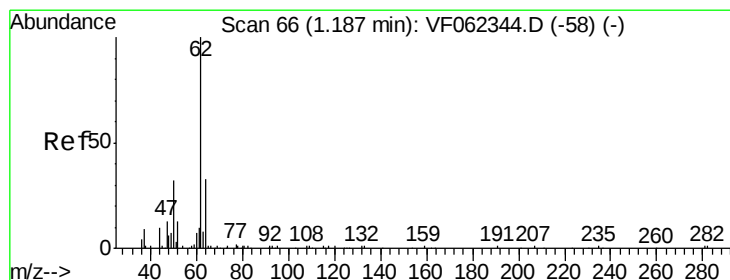
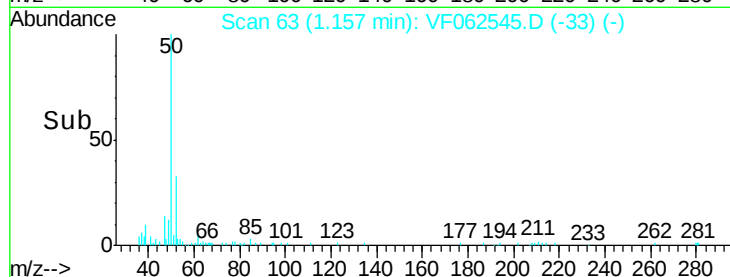
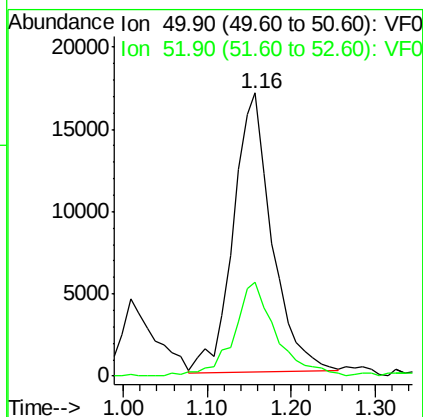
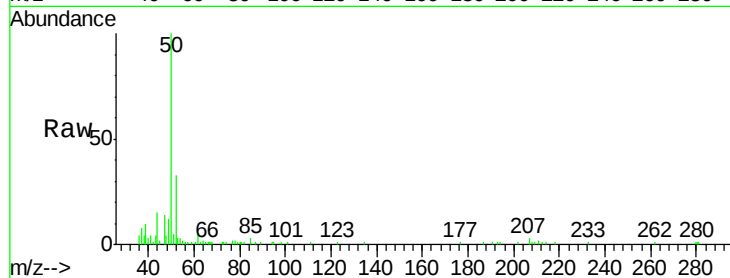
50 100

52 33.0 26.1 39.1

Manual Integrations
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5/14/2019 11:21:25 AM



#4

Vinyl Chloride

Concen: 20.948 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062545.D

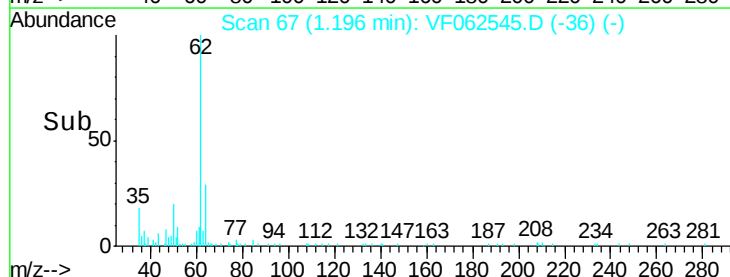
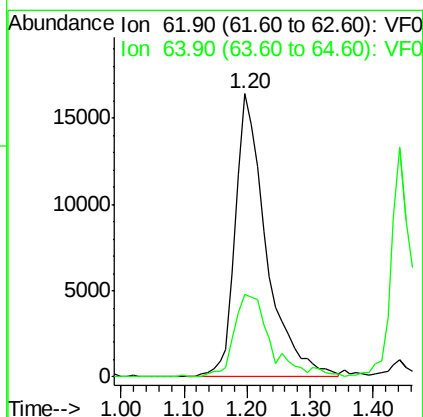
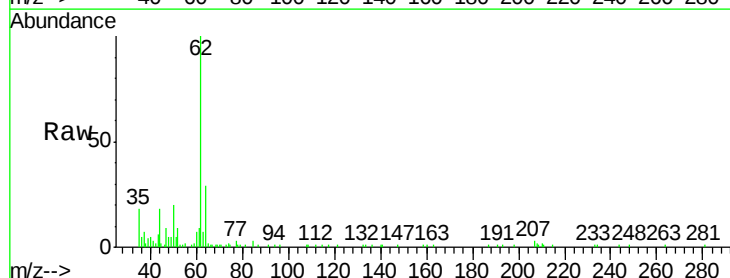
Acq: 13 May 2019 16:51

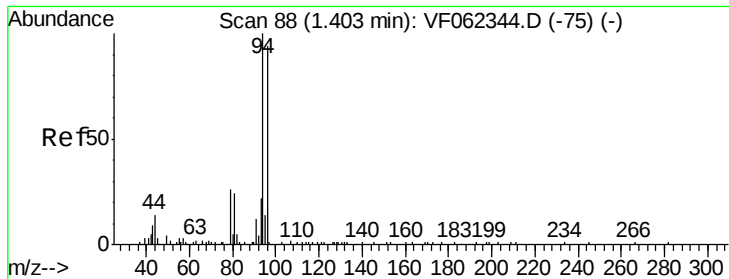
Tgt Ion: 62 Resp: 55754

Ion Ratio Lower Upper

62 100

64 29.0 26.1 39.1





#5

Bromomethane

Concen: 22.045 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 94 Resp: 47092

Ion Ratio Lower Upper

94 100

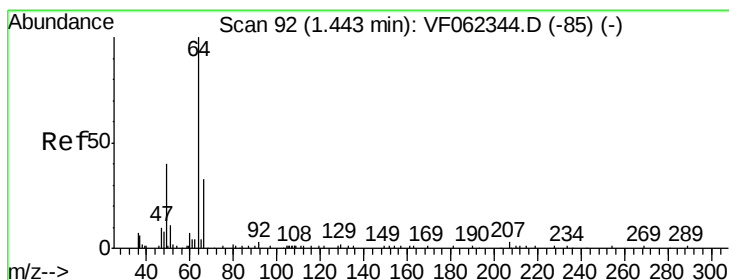
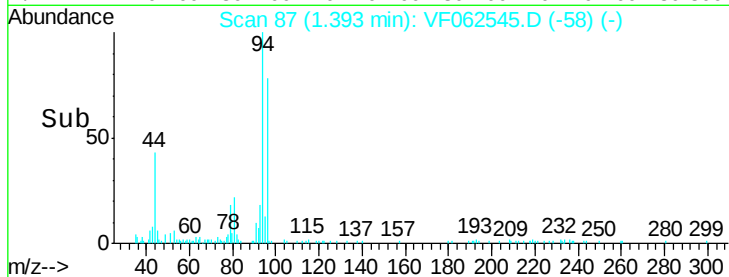
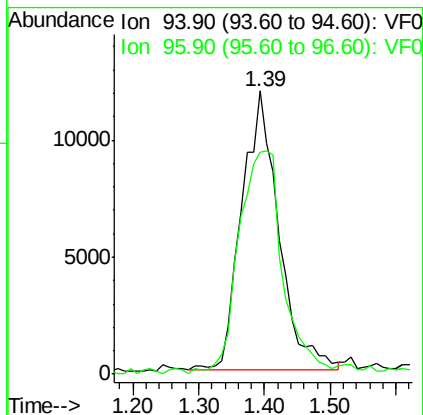
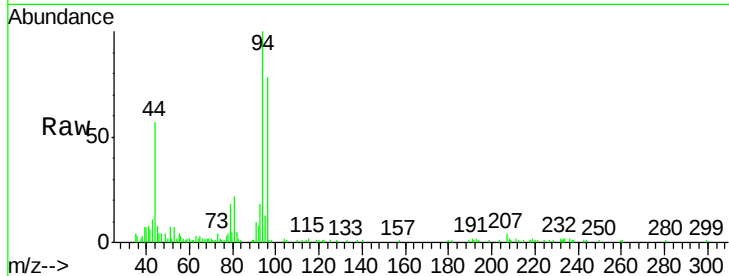
96 79.6 75.4 113.2

Manual Integrations

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5/14/2019 11:21:25 AM



#6

Chloroethane

Concen: 22.743 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.00 min

Lab File: VF062545.D

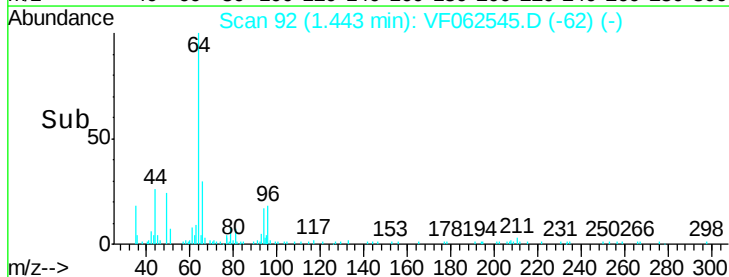
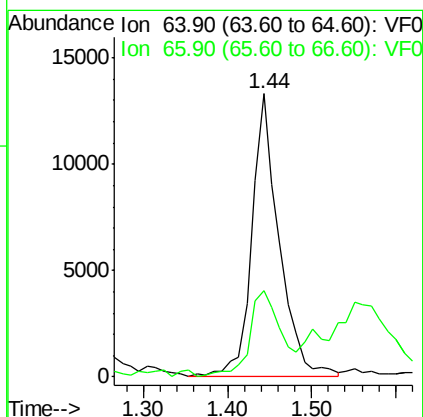
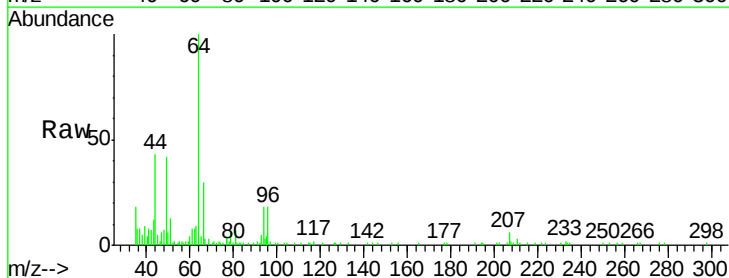
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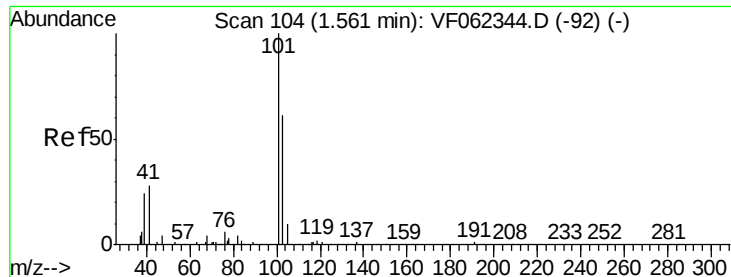
Tgt Ion: 64 Resp: 30433

Ion Ratio Lower Upper

64 100

66 26.7 26.6 39.8





#7

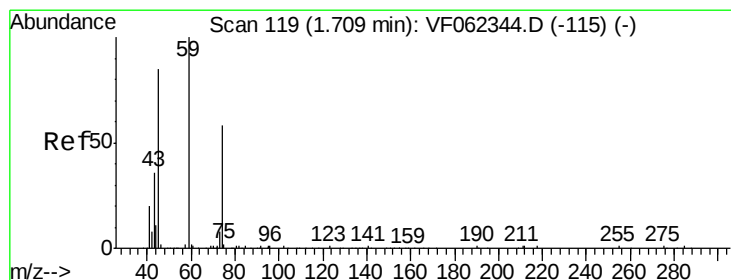
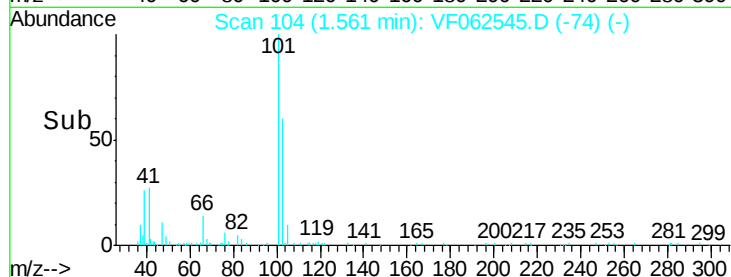
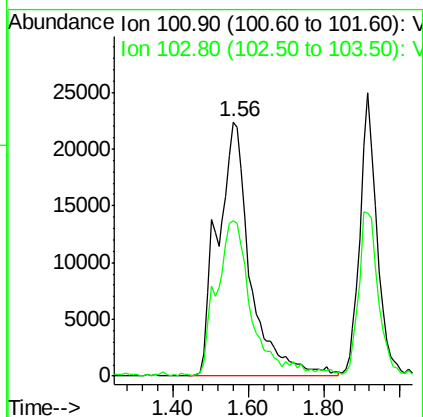
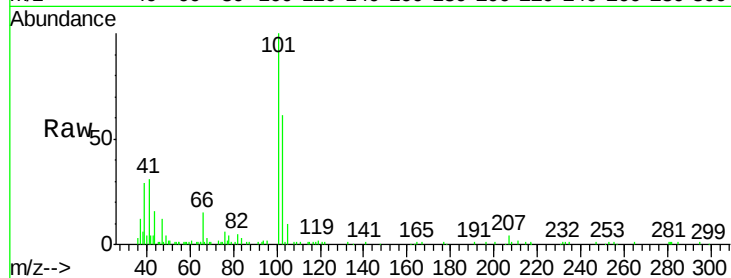
Trichlorofluoromethane
 Concen: 24.270 ug/l
 RT: 1.56 min Scan# 104
 Delta R.T. -0.00 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	60.8	48.5	72.7

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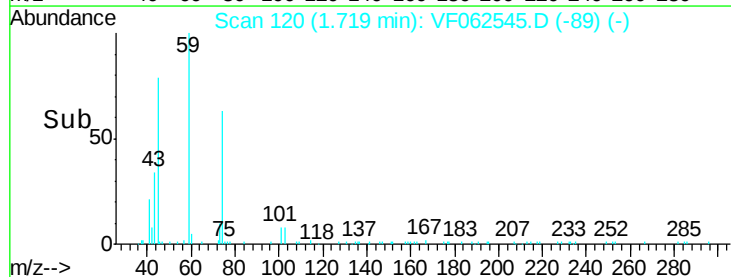
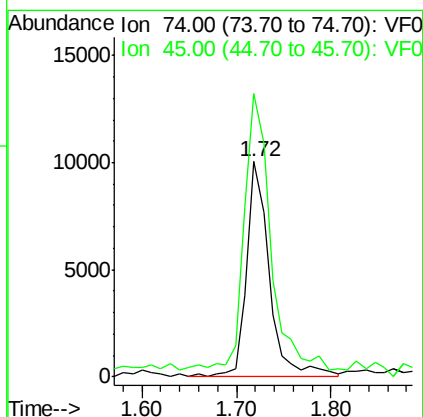
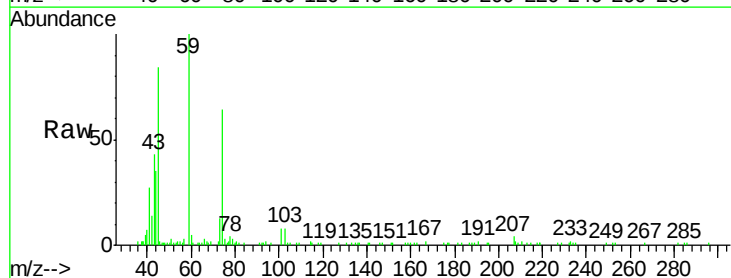
MMDadoda
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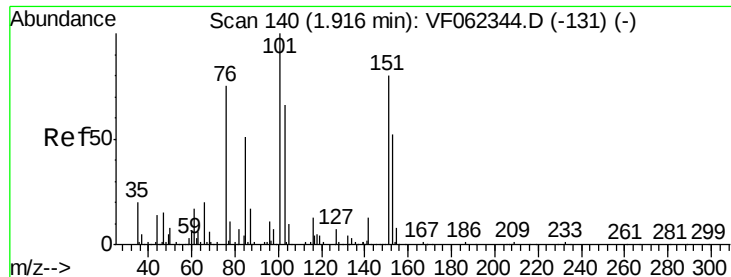


#8

Diethyl Ether
 Concen: 20.151 ug/l
 RT: 1.72 min Scan# 120
 Delta R.T. 0.01 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	146.4	73.9	221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.314 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

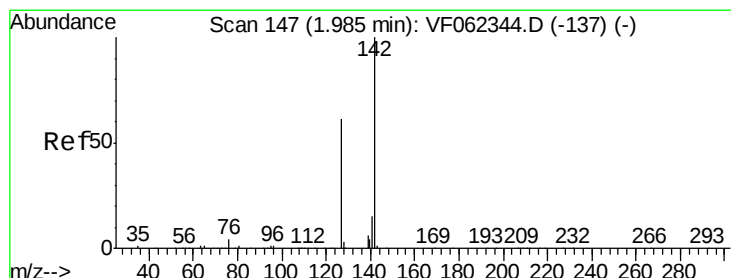
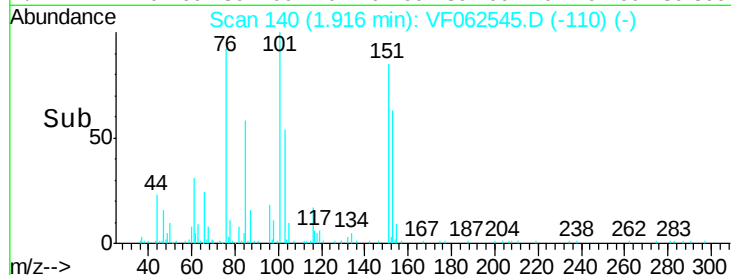
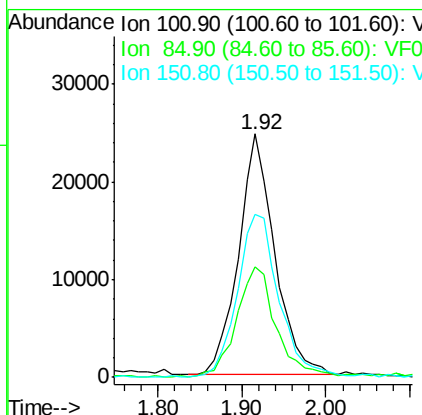
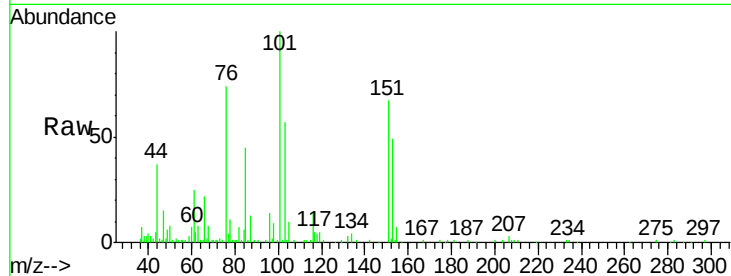
ClientSampleId :

VF0513SBS01

Tot Ion:	101	Resp:	73502
Ion Ratio	Lower	Upper	
101	100		
85	51.2	39.5	59.3
151	78.3	59.9	89.9

Manual Integrations
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5/14/2019 11:21:25 AM



#10

Methyl Iodide

Concen: 24.412 ug/l

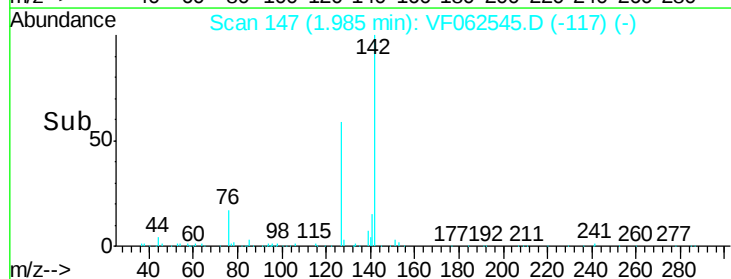
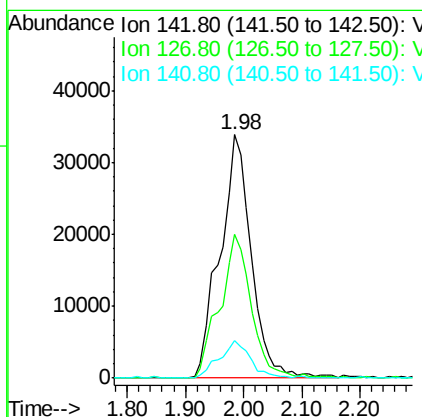
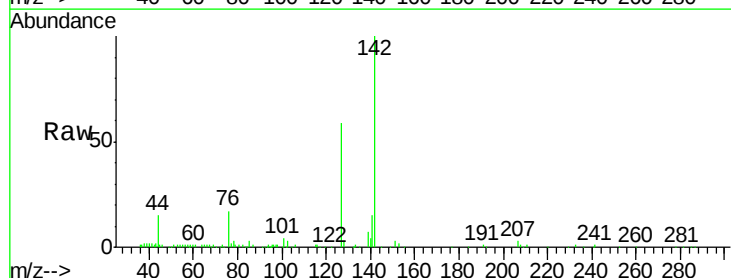
RT: 1.98 min Scan# 147

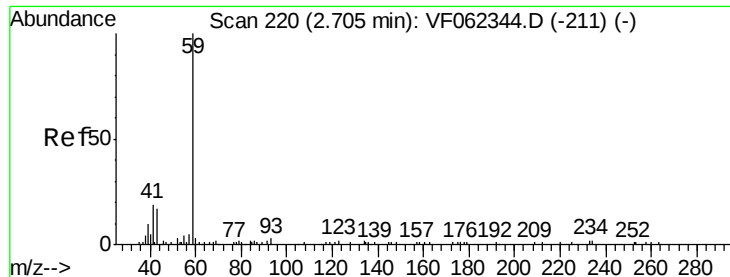
Delta R.T. -0.00 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	142	Resp:	126832
Ion Ratio	Lower	Upper	
142	100		
127	59.6	48.4	72.6
141	15.3	12.2	18.4





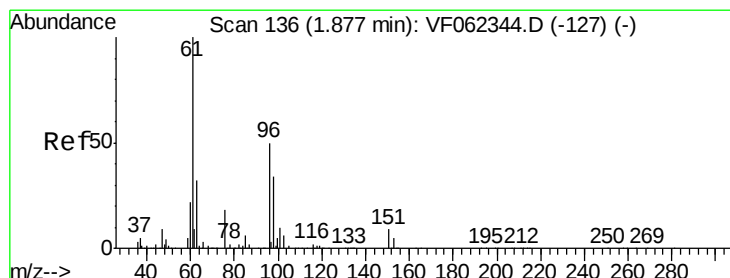
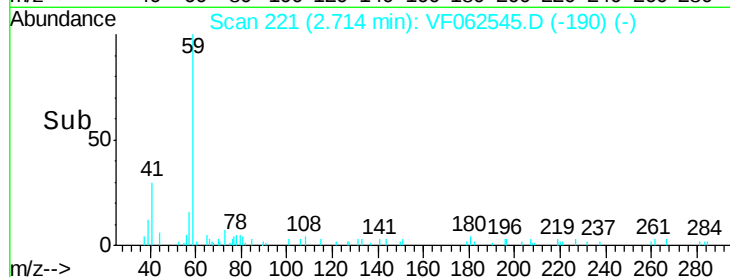
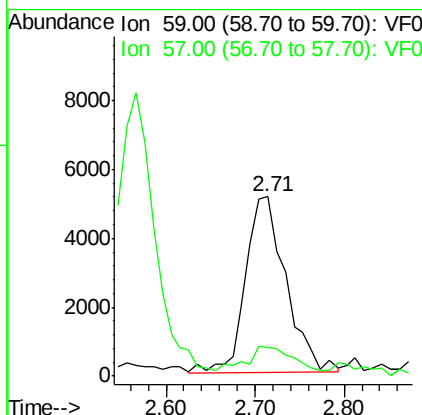
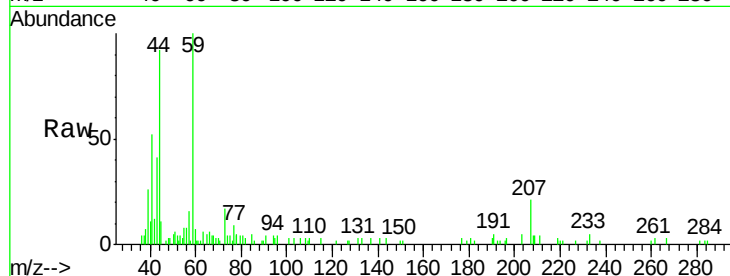
#11
Tert butyl alcohol
Concen: 85.606 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.0	9.3	13.9#

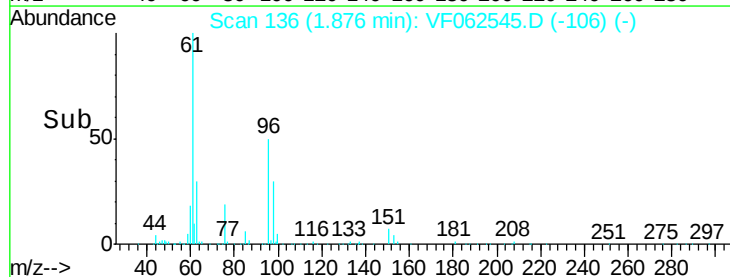
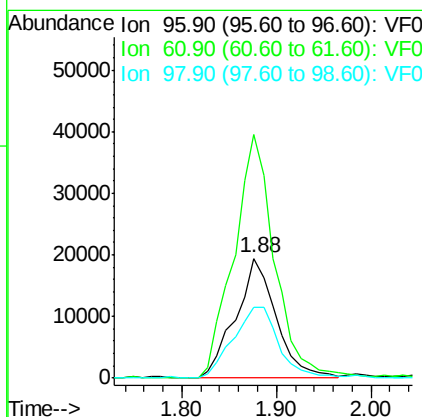
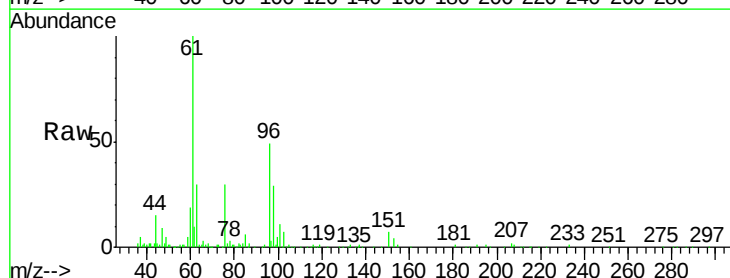
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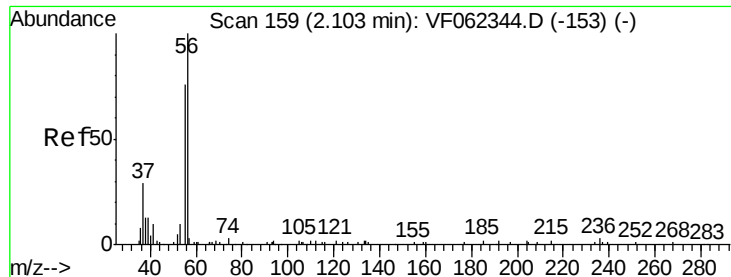
MMDadoda
5/14/2019 11:21:25 AM



#12
1,1-Dichloroethene
Concen: 21.682 ug/l
RT: 1.88 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	203.3	163.2	244.8
98	59.2	55.2	82.8





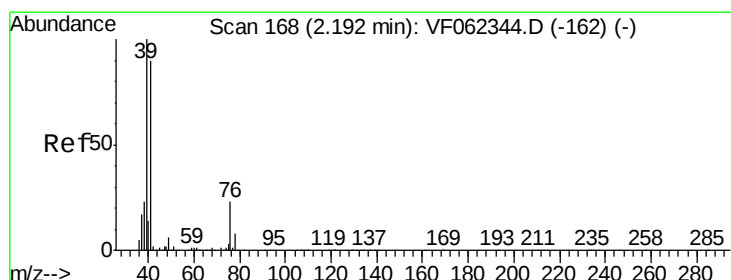
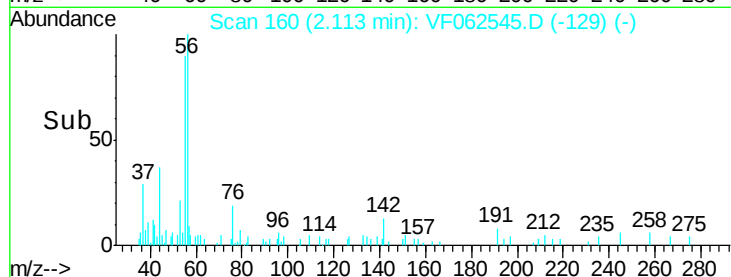
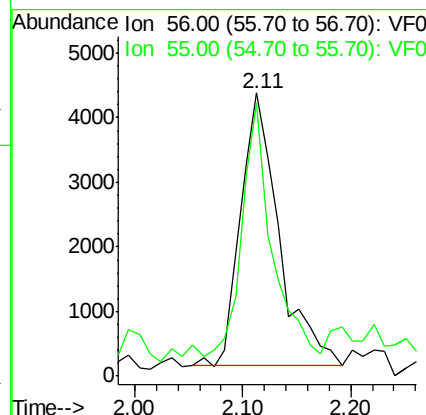
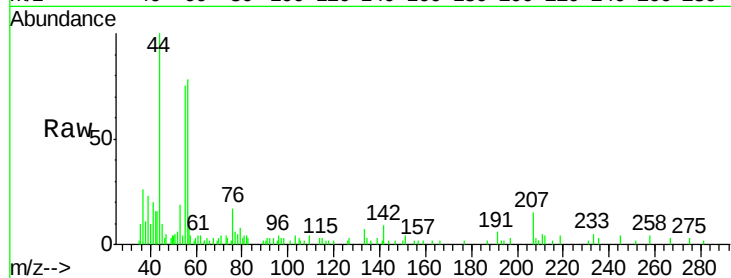
#13
Acrolein
Concen: 76.072 ug/l
RT: 2.11 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	56	Resp	10475
Ion Ratio	100	Lower	Upper
55	71.5	58.4	87.6

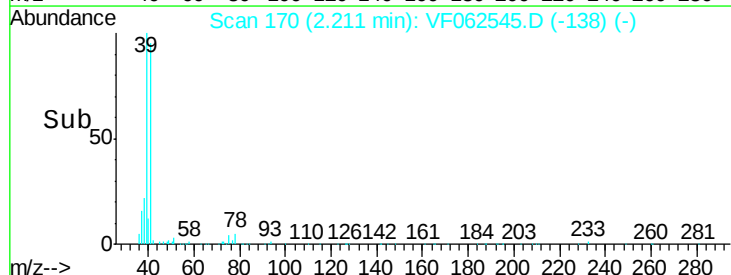
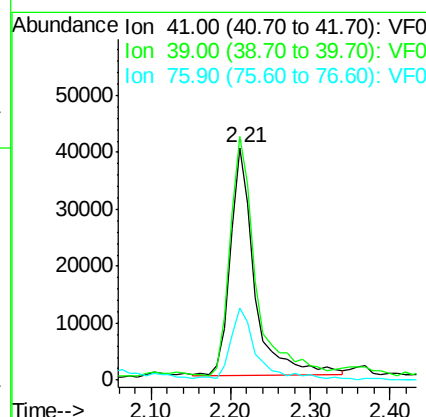
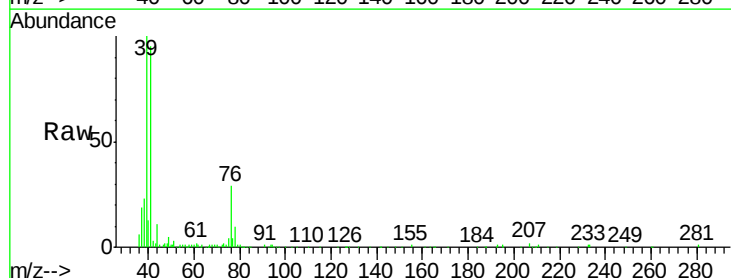
Manual Integrations
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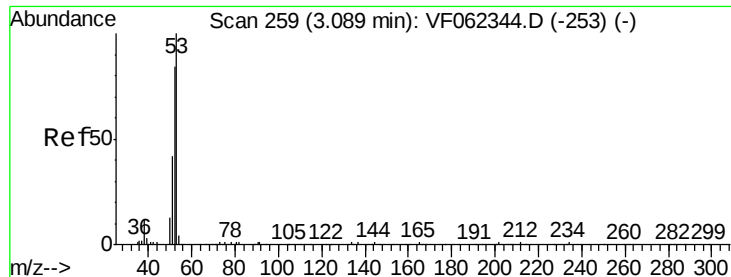
MMDadoda
5/14/2019 11:21:25 AM



#14
Allyl chloride
Concen: 36.764 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	41	Resp	87041
Ion Ratio	100	Lower	Upper
39	110.6	90.8	136.2
76	32.8	22.2	33.4





#15

Acrylonitrile

Concen: 113.255 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

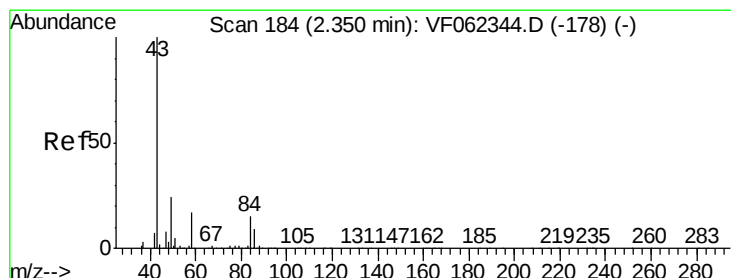
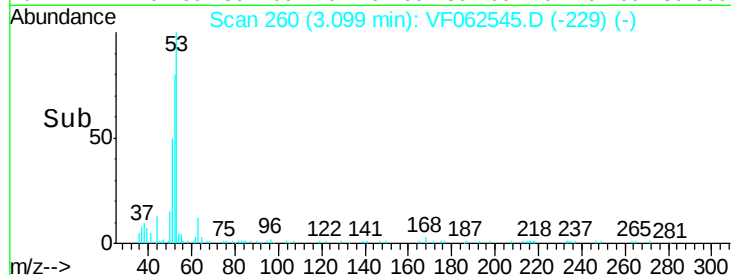
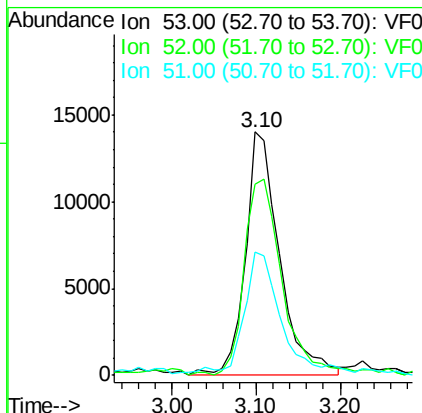
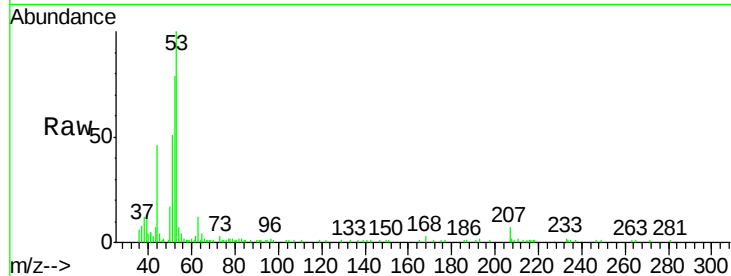
ClientSampleId :

VF0513SBS01

Tot Ion:	53	Resp:	40057
Ion	Ratio	Lower	Upper
53	100		
52	91.2	77.2	115.8
51	51.9	40.6	61.0

Manual Integrations
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MMDadoda
5/14/2019 11:21:25 AM



#16

Acetone

Concen: 108.995 ug/l

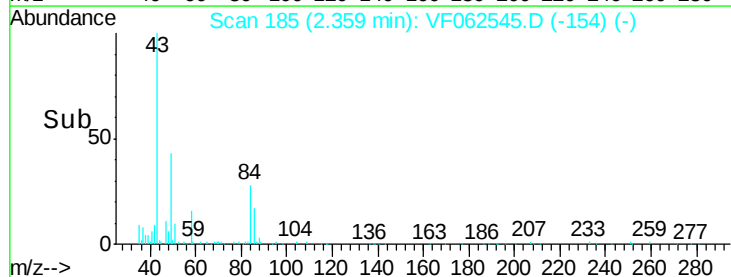
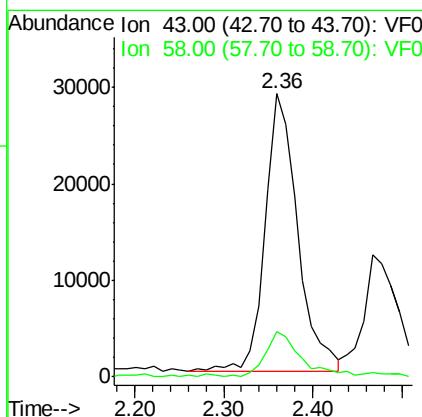
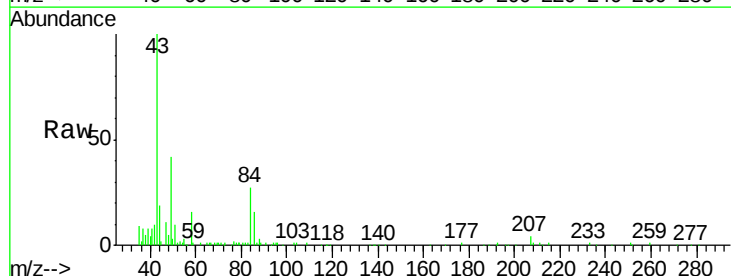
RT: 2.36 min Scan# 185

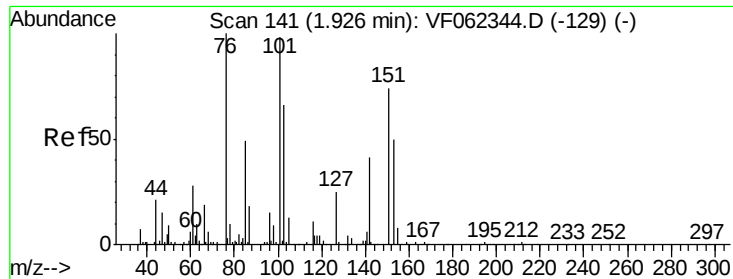
Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	43	Resp:	72843
Ion	Ratio	Lower	Upper
43	100		
58	15.4	13.1	19.7





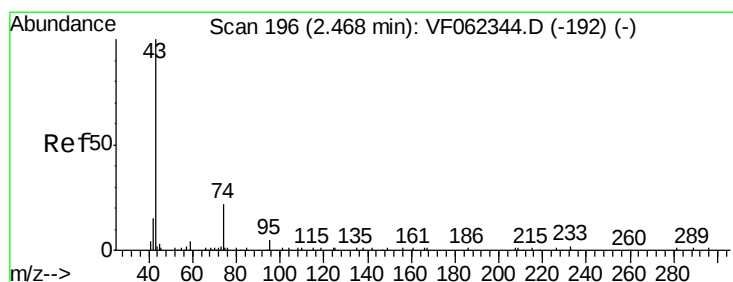
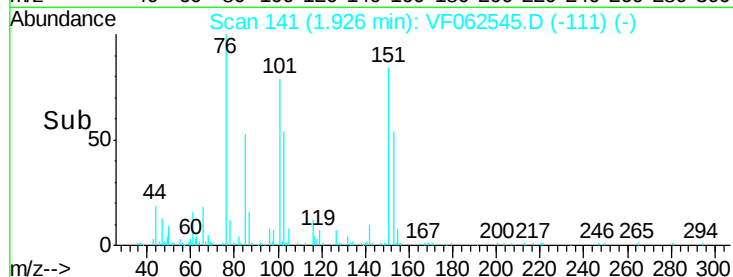
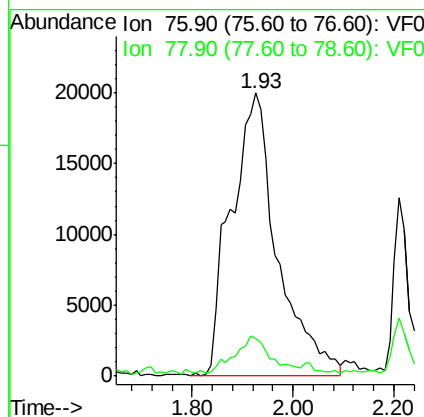
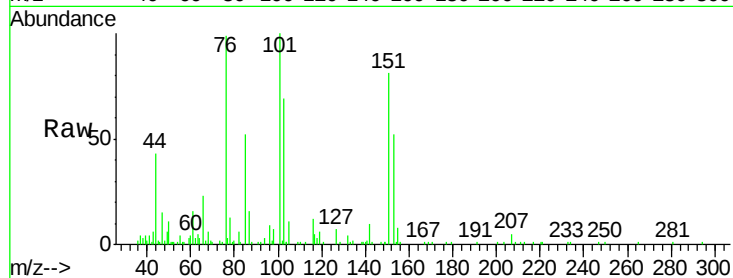
#17
Carbon Disulfide
Concen: 21.887 ug/l
RT: 1.93 min Scan# 141
Delta R.T. -0.00 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.2	9.0	13.4

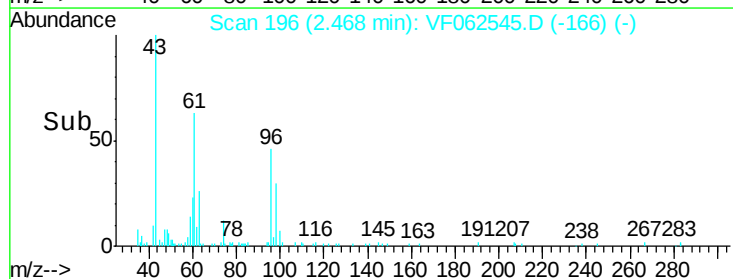
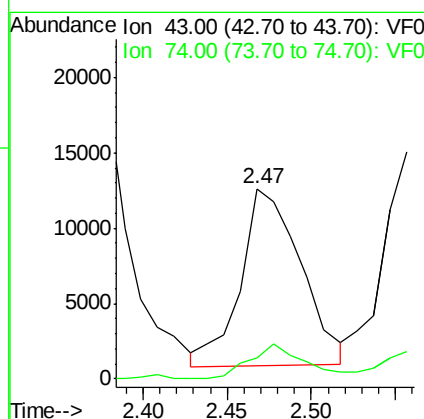
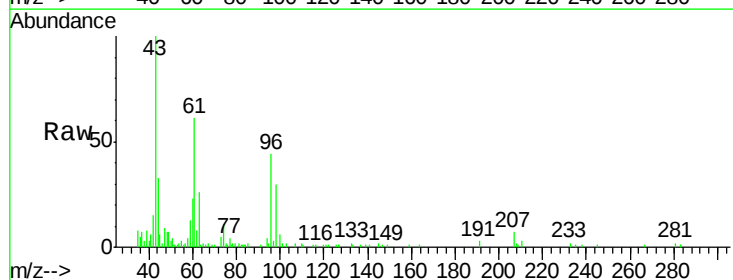
Manual Integrations
APPROVED

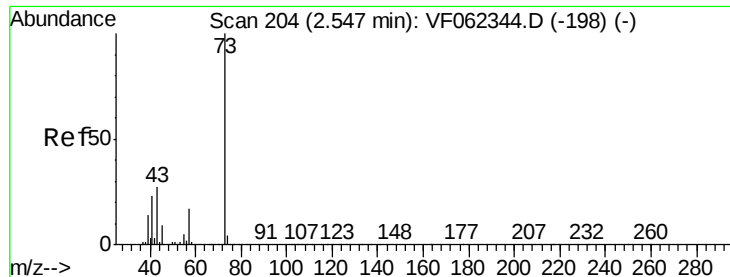
MMDadoda
5/14/2019 11:21:25 AM



#18
Methyl Acetate
Concen: 22.171 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.7	15.0	22.4





#19

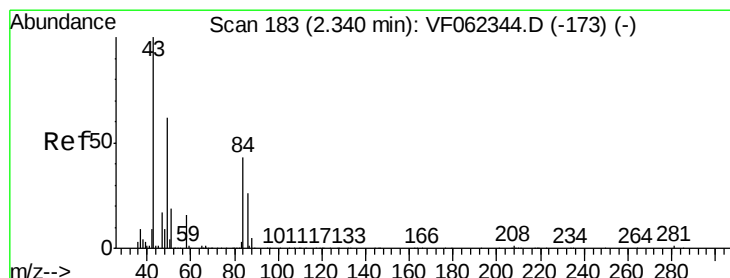
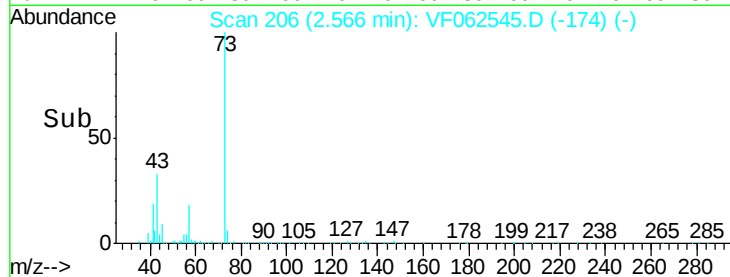
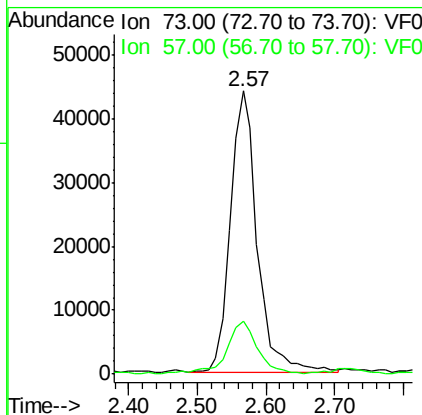
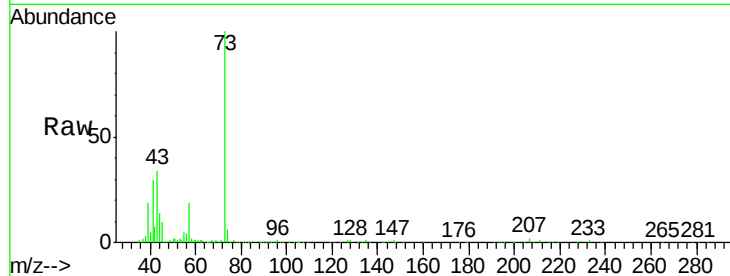
Methyl tert-butyl Ether
 Concen: 21.230 ug/l
 RT: 2.57 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0513SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.2	13.7	20.5

Manual Integrations
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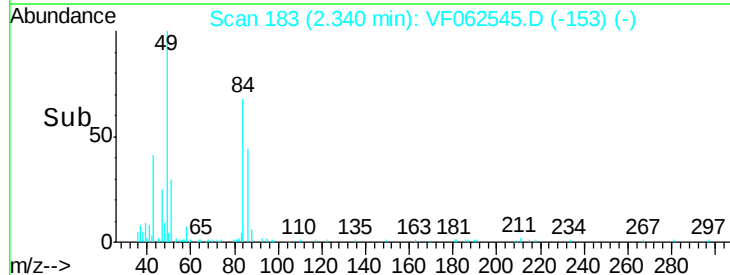
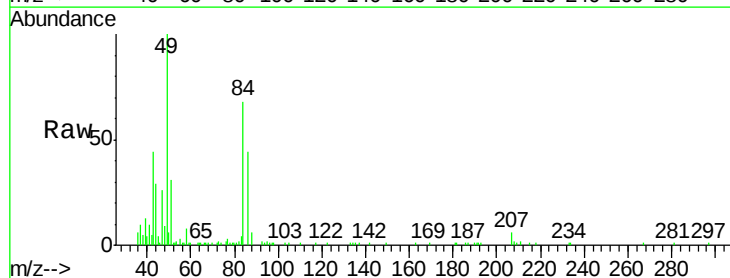
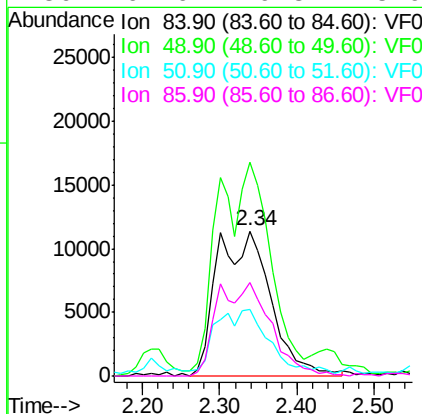
MMDadoda
 5/14/2019 11:21:25 AM

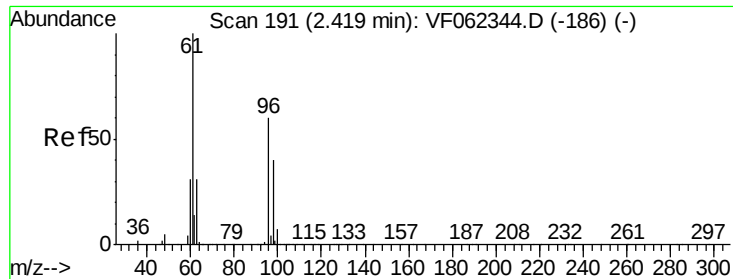


#20

Methylene Chloride
 Concen: 22.825 ug/l m
 RT: 2.34 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.5	117.5	176.3
51	46.1	37.0	55.4
86	64.6	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 22.349 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

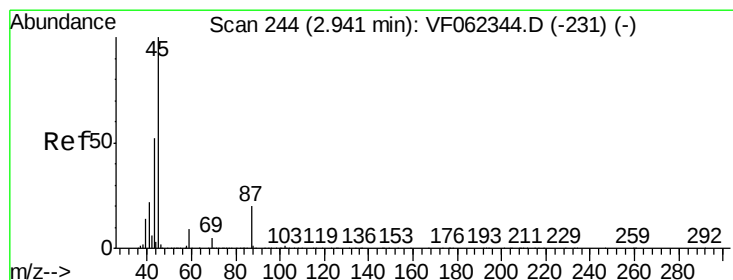
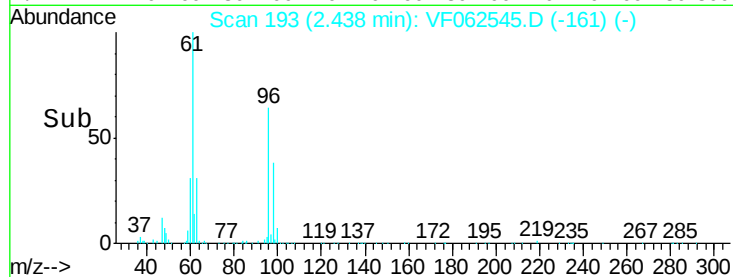
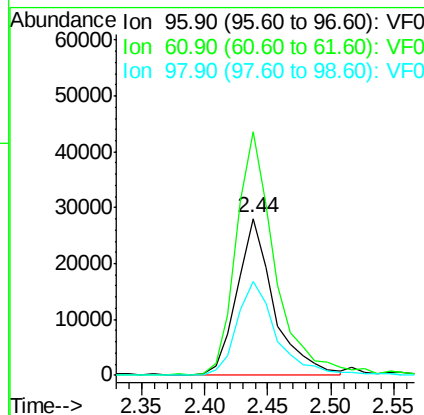
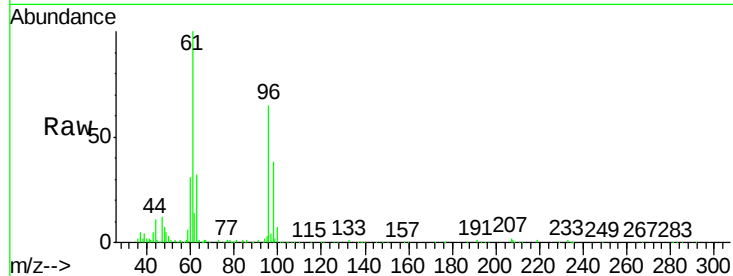
ClientSampleId :

VF0513SBS01

Tot Ion:	96	Resp:	57070
Ion	Ratio	Lower	Upper
96	100		
61	154.4	133.2	199.8
98	59.3	53.1	79.7

Manual Integrations
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5/14/2019 11:21:25 AM



#22

Diisopropyl ether

Concen: 22.395 ug/l

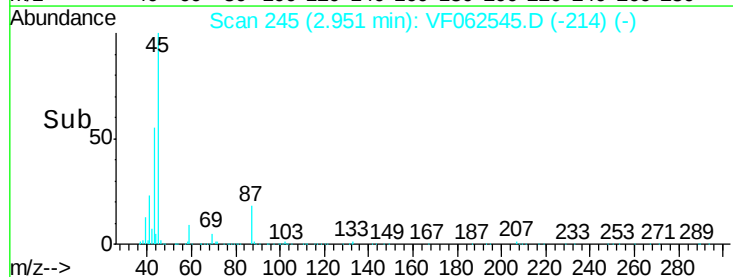
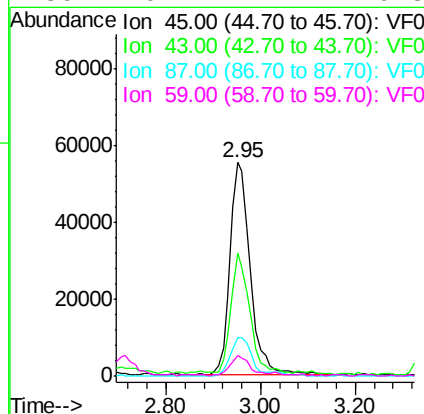
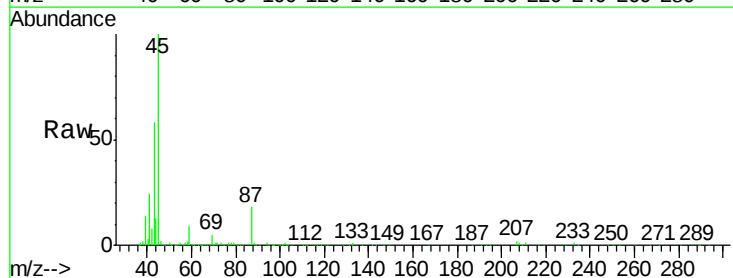
RT: 2.95 min Scan# 245

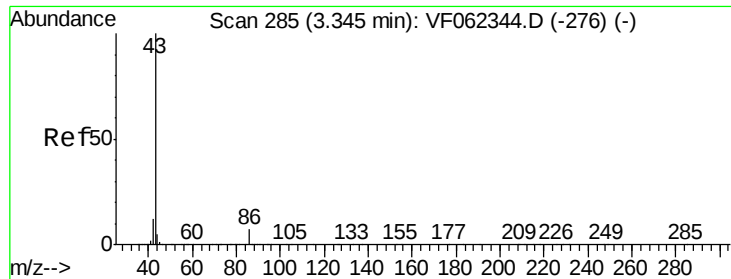
Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	45	Resp:	165717
Ion	Ratio	Lower	Upper
45	100		
43	56.6	41.4	62.0
87	18.1	15.8	23.6
59	9.1	7.2	10.8





#23

Vinyl Acetate

Concen: 105.301 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 43 Resp: 347281

Ion Ratio Lower Upper

43 100

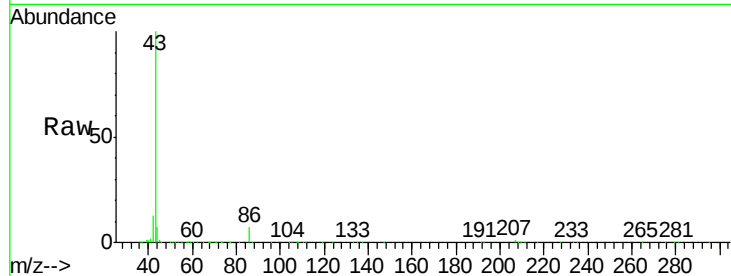
86 6.6 5.7 8.5

Manual Integrations

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MMDadoda

5/14/2019 11:21:25 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.36

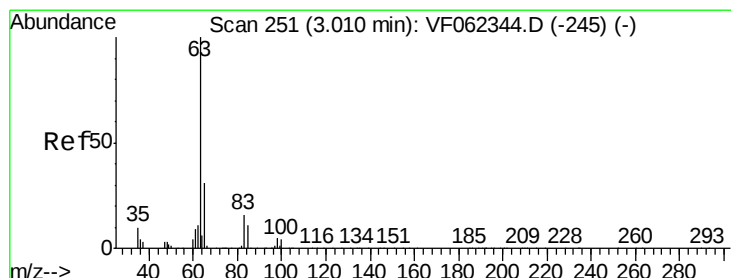
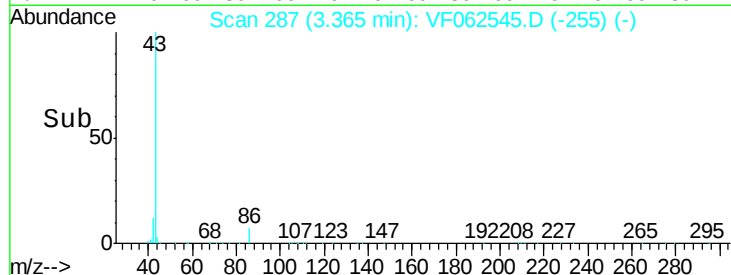
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 23.381 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

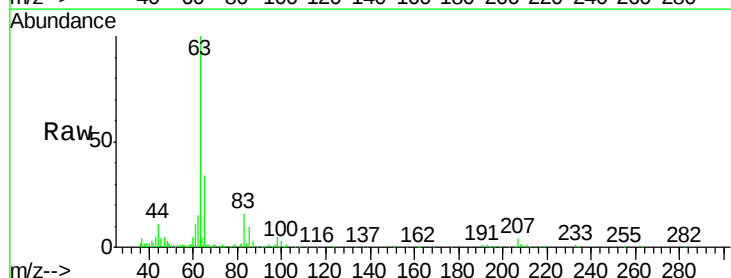
Tgt Ion: 63 Resp: 104564

Ion Ratio Lower Upper

63 100

98 4.6 2.6 8.0

100 3.1 1.8 5.4



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0

3.03

50000

40000

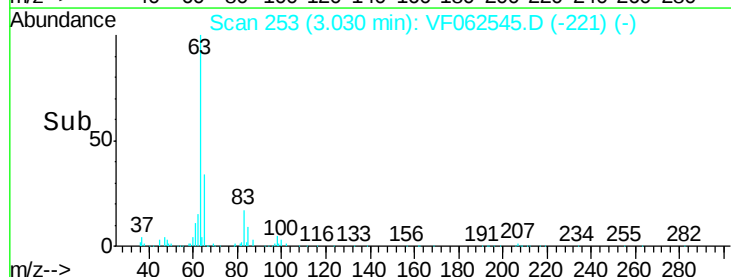
30000

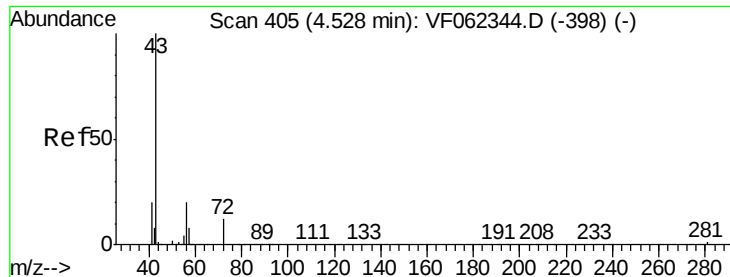
20000

10000

0

Time-->





#25

2-Butanone

Concen: 99.334 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 43 Resp: 83403

Ion Ratio Lower Upper

43 100

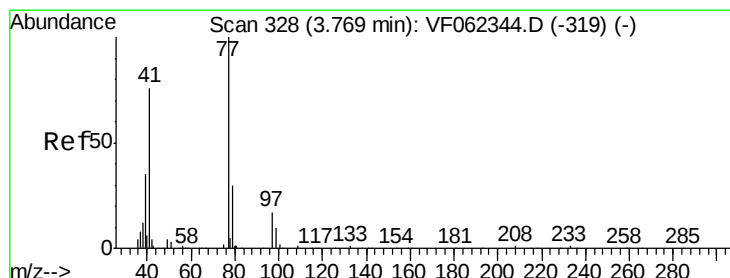
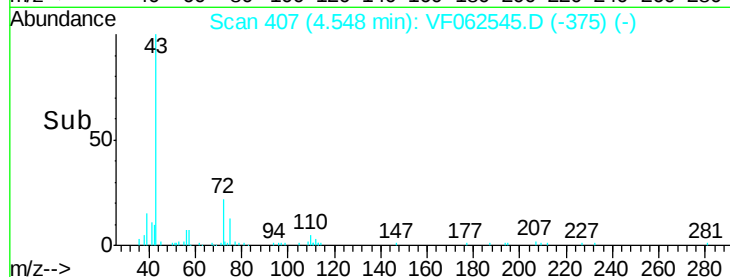
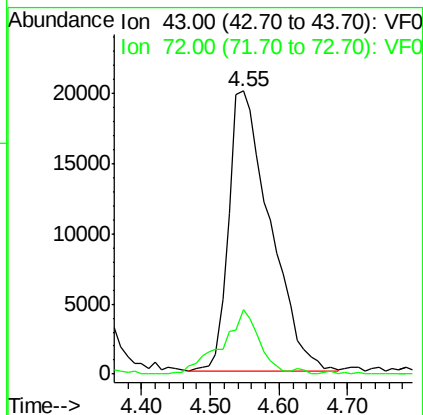
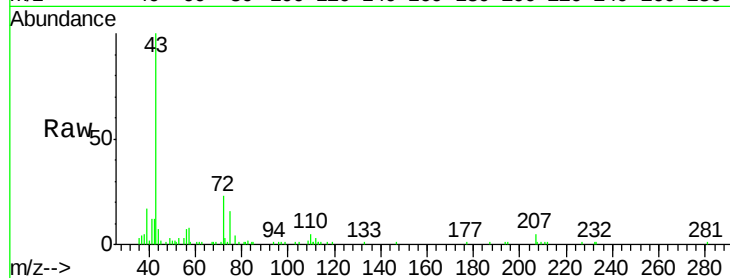
72 22.9 14.2 21.4#

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 29.326 ug/l

RT: 3.80 min Scan# 331

Delta R.T. 0.03 min

Lab File: VF062545.D

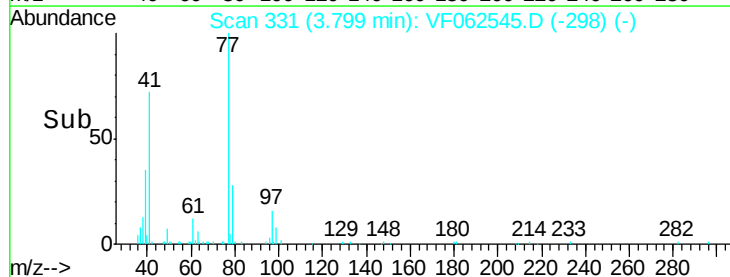
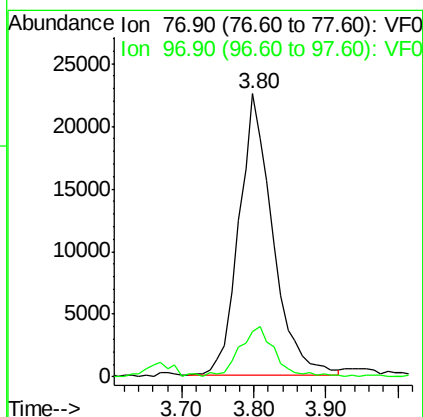
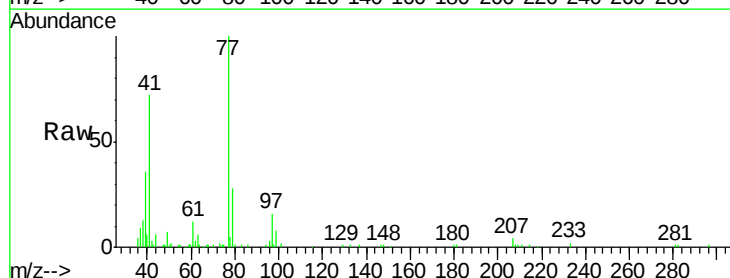
Acq: 13 May 2019 16:51

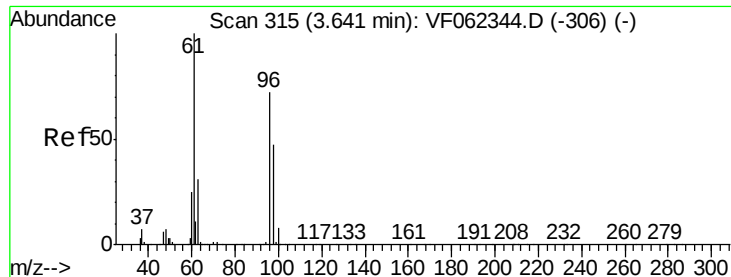
Tgt Ion: 77 Resp: 73241

Ion Ratio Lower Upper

77 100

97 18.9 9.5 28.5





#27

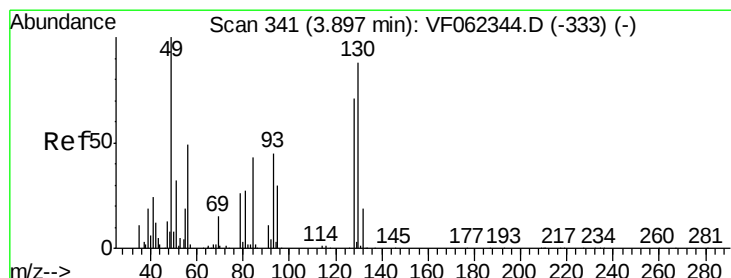
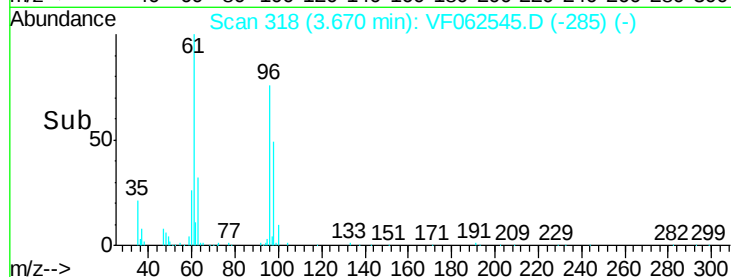
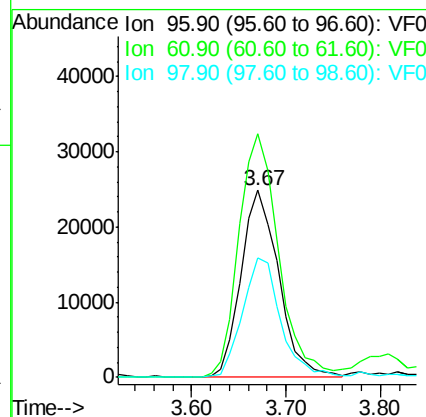
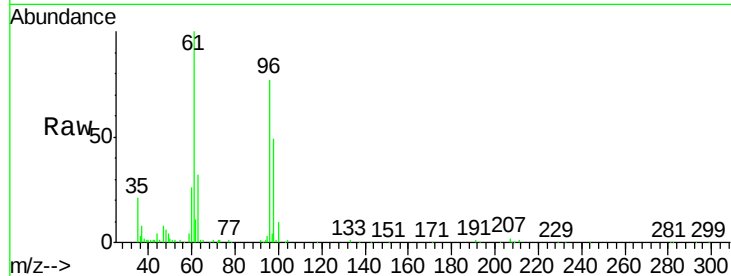
cis-1,2-Dichloroethene
Concen: 21.635 ug/l
RT: 3.67 min Scan# 318
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	263.0
98	64.5	0.0	130.8

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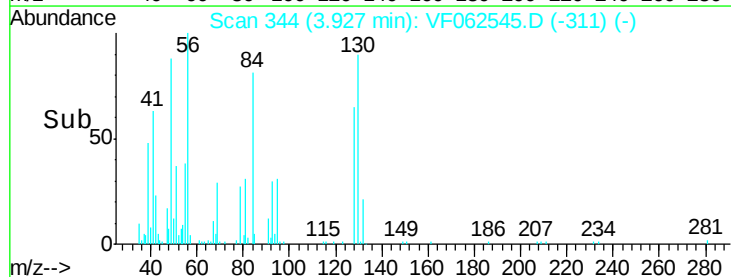
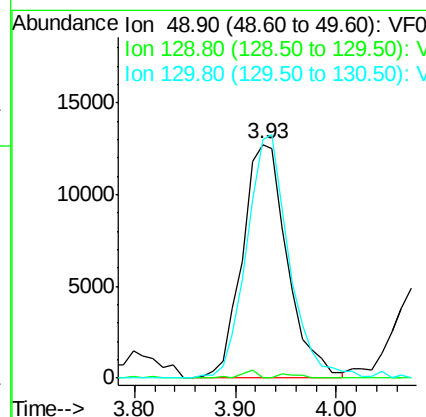
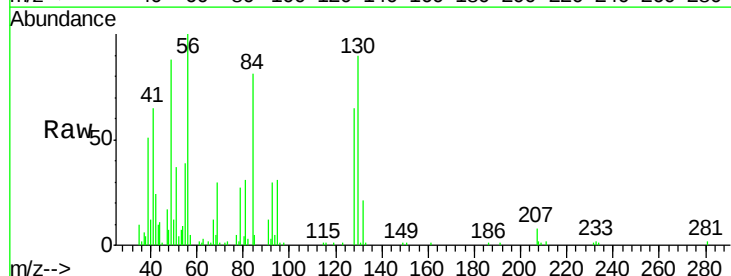
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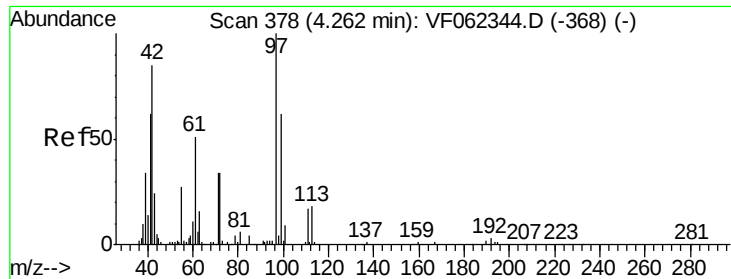


#28

Bromochloromethane
Concen: 19.513 ug/l
RT: 3.93 min Scan# 344
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	2.2
130	0.0	79.4	119.0#





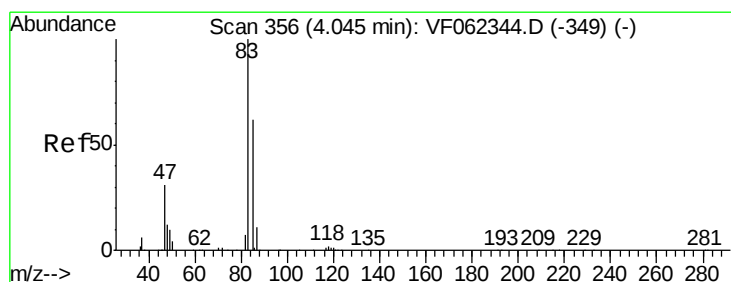
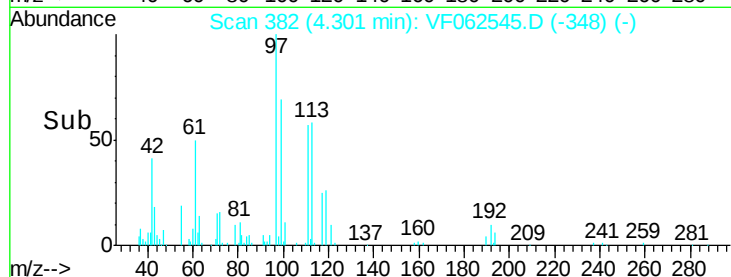
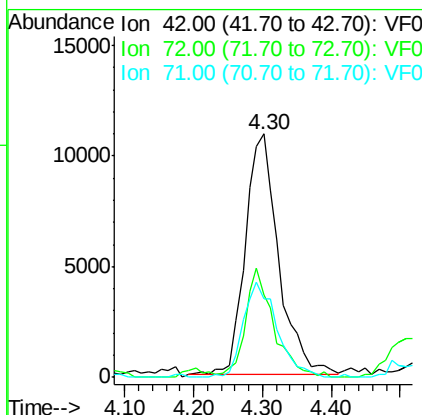
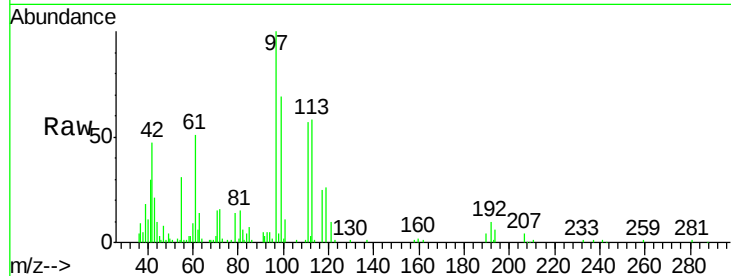
#29
Tetrahydrofuran
Concen: 95.717 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.04 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	31.4	47.0
71	39.6	31.7	47.5

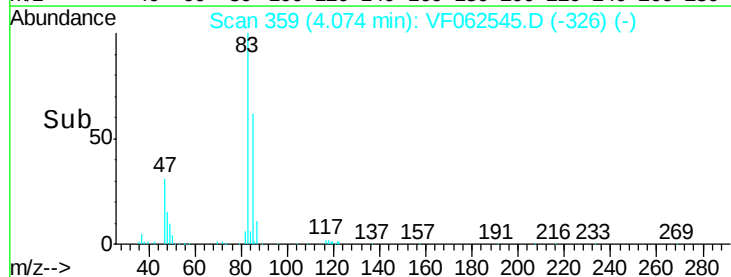
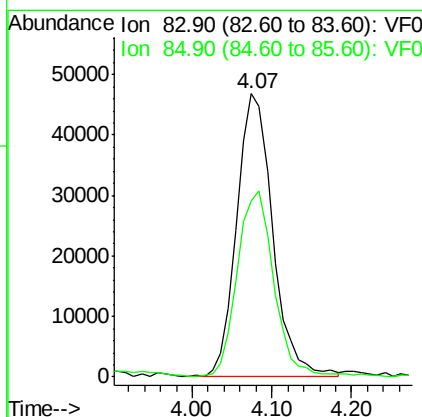
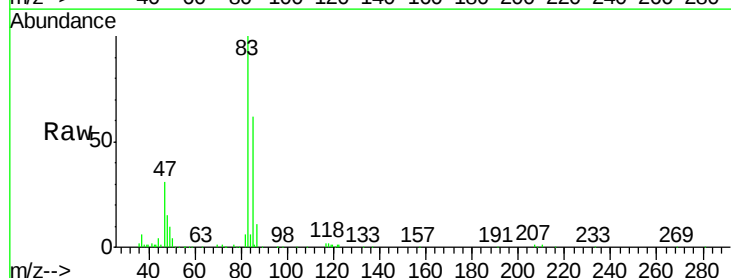
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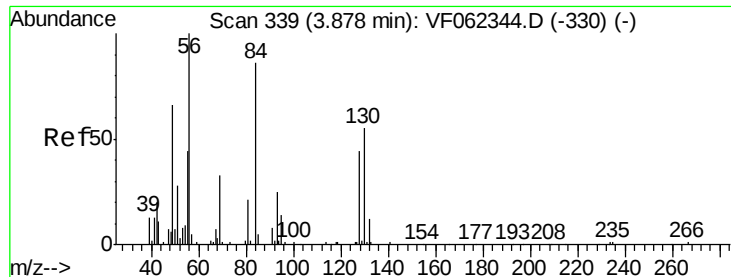
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#30
Chloroform
Concen: 24.332 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.8	49.6	74.4





#31

Cyclohexane

Concen: 23.014 ug/l

RT: 3.91 min Scan# 342

Delta R.T. 0.03 min

Lab File: VF062545.D

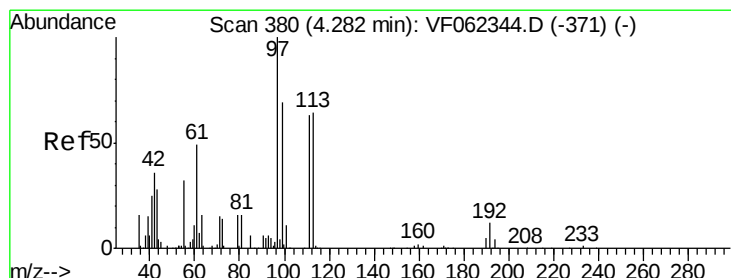
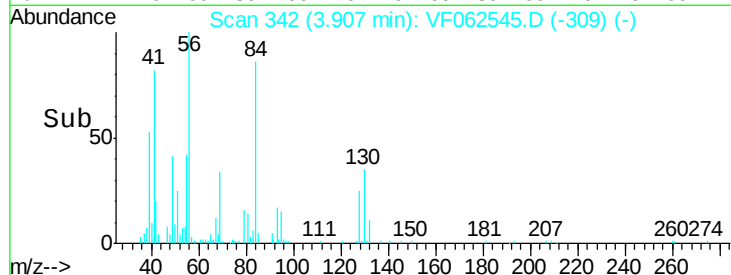
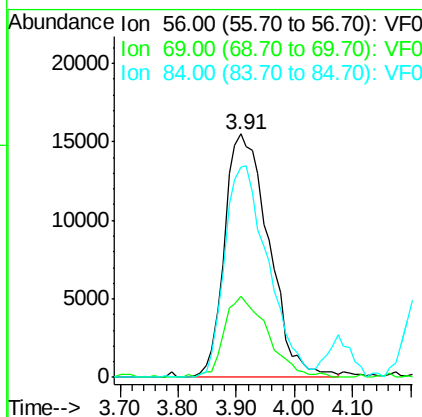
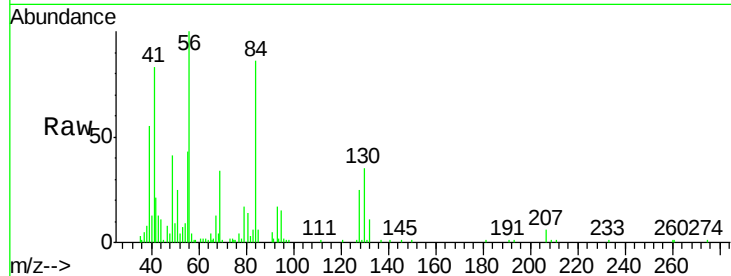
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion:	56	Resp:	82151
Ion	Ratio	Lower	Upper
56	100		
69	33.5	26.4	39.6
84	86.2	69.0	103.6

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#32

1,1,1-Trichloroethane

Concen: 25.165 ug/l

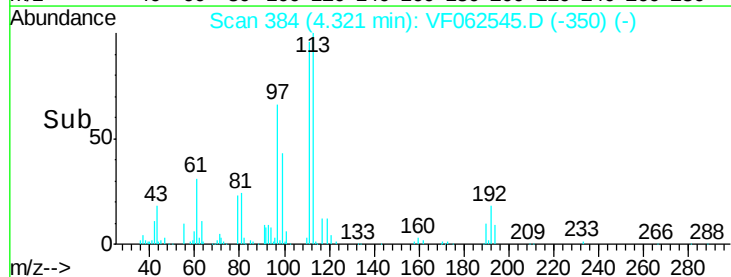
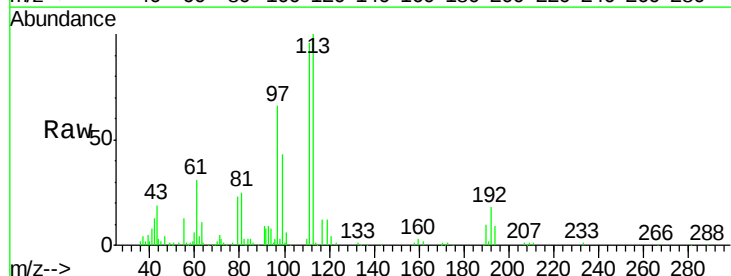
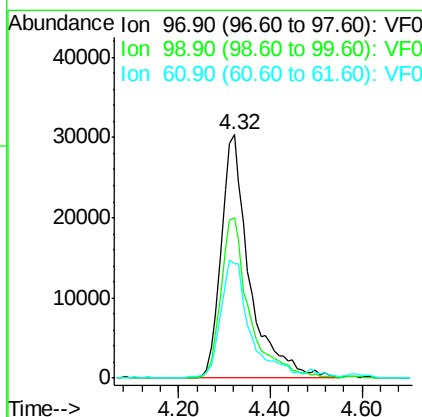
RT: 4.32 min Scan# 384

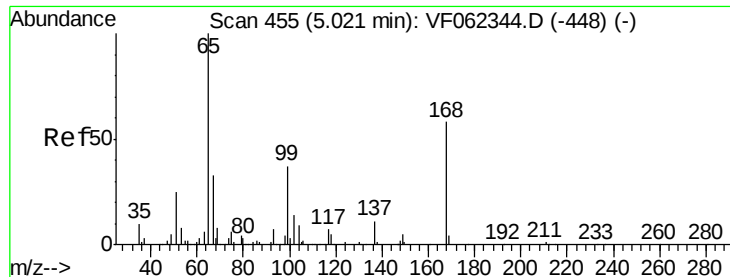
Delta R.T. 0.04 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	97	Resp:	130312
Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.6	78.8
61	50.4	39.4	59.0





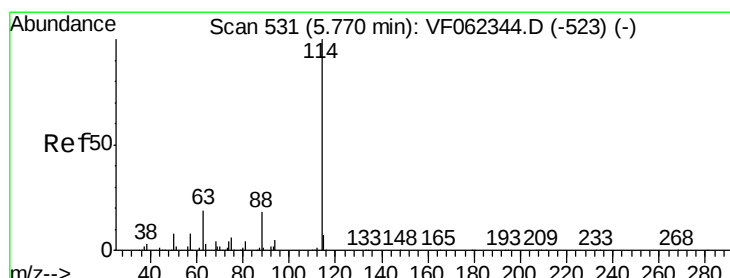
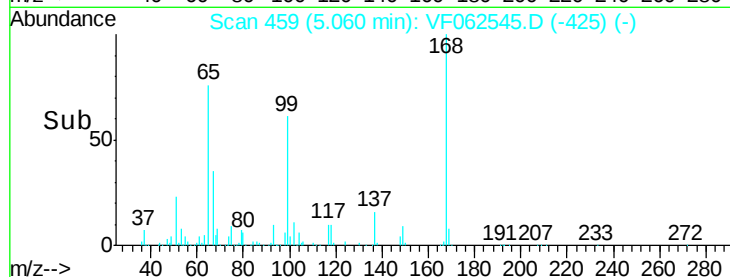
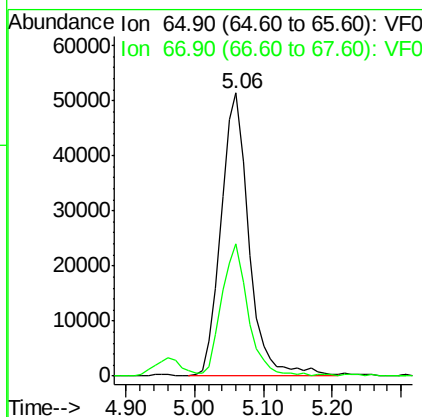
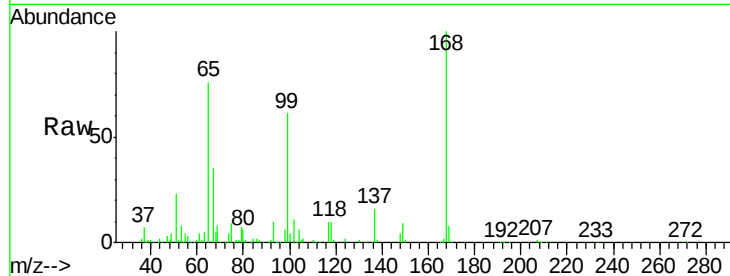
#33
 1,2-Dichloroethane-d4
 Concen: 43.769 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. 0.04 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	144600		
67	44.6	0.0	85.8	

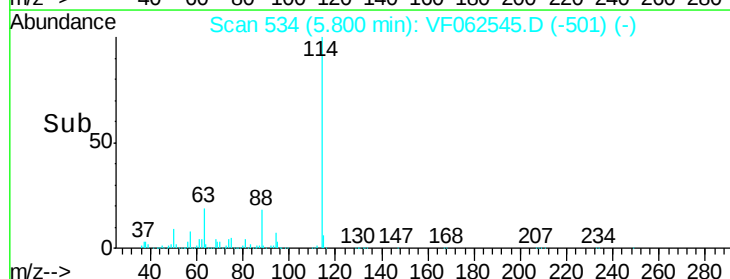
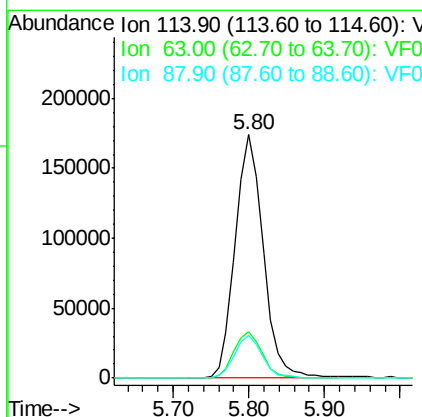
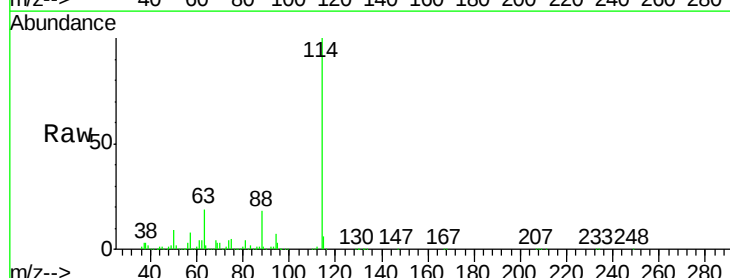
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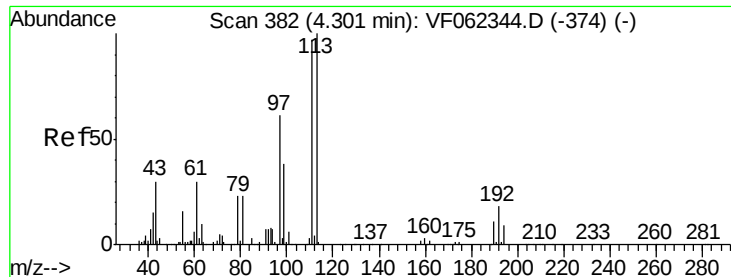
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	447614		
63	18.9	0.0	37.4	
88	17.7	0.0	36.4	





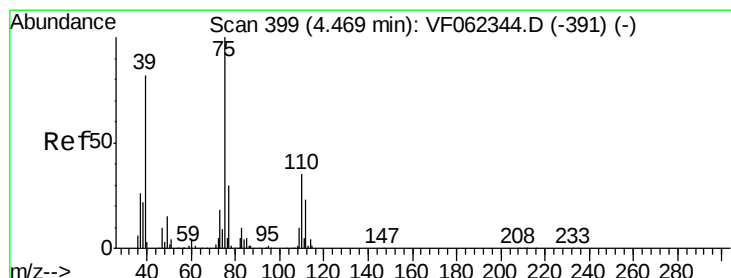
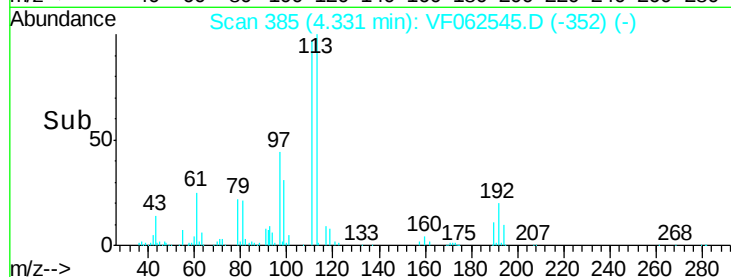
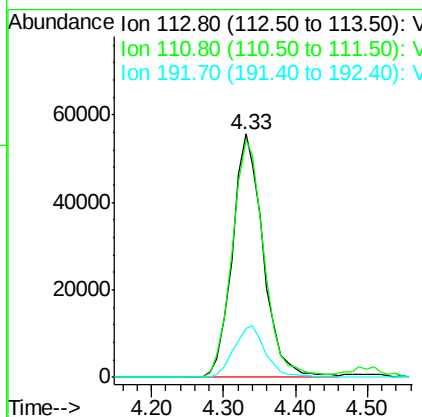
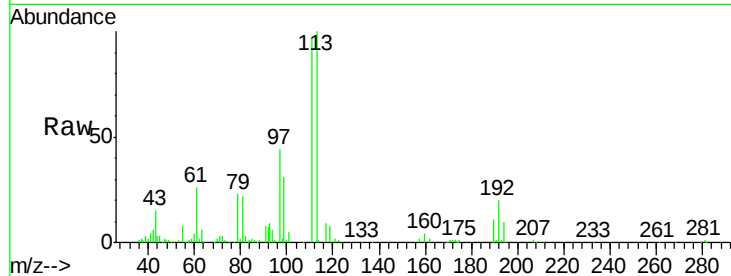
#35
 Dibromofluoromethane
 Concen: 46.426 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	165558		
111	100.7		79.4	119.0
192	22.0		16.0	24.0

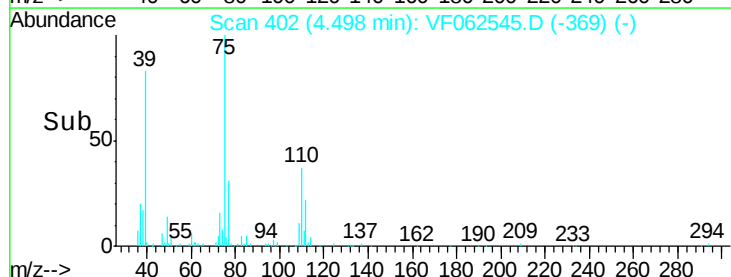
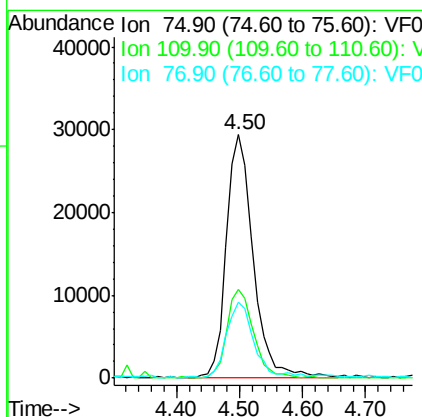
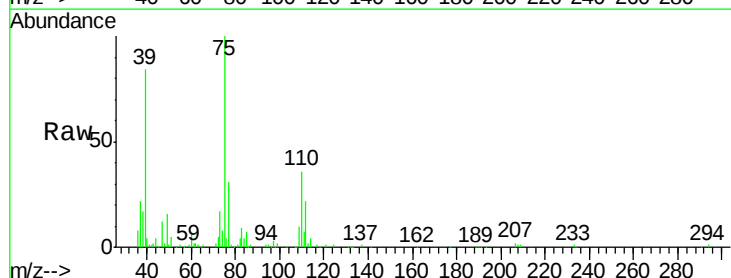
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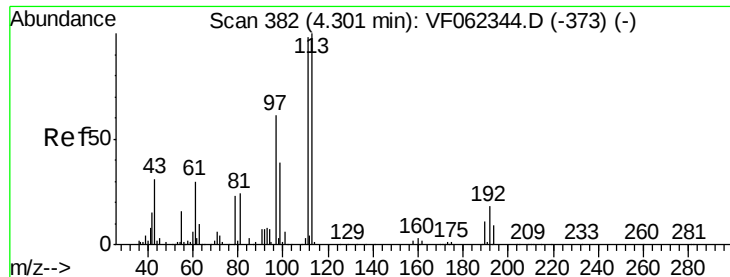
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#36
 1,1-Dichloropropene
 Concen: 22.609 ug/l
 RT: 4.50 min Scan# 402
 Delta R.T. 0.03 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	86937		
110	35.9		17.2	51.5
77	31.4		25.2	37.8





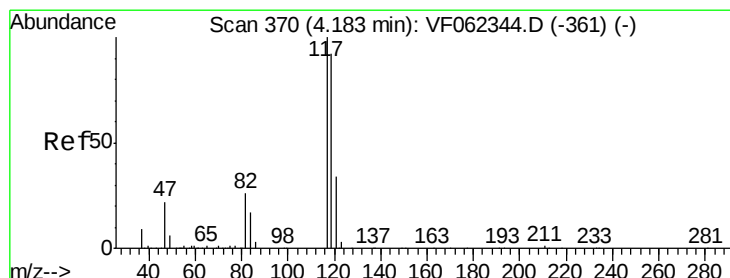
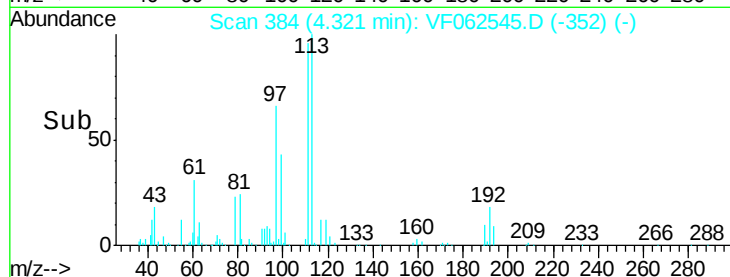
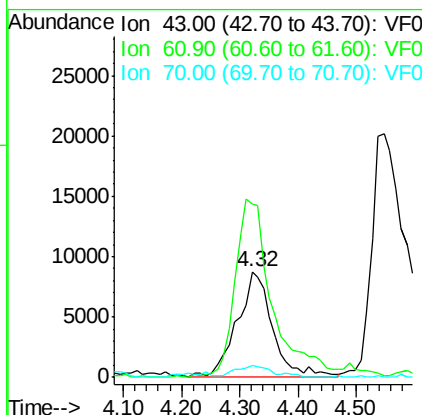
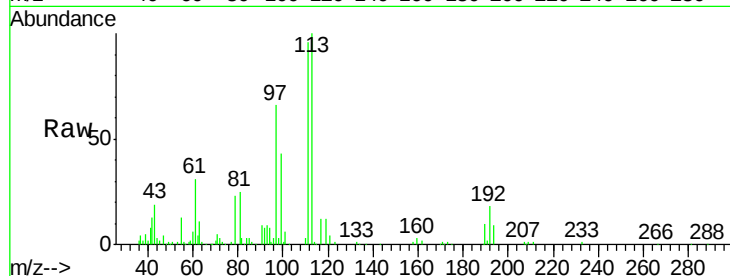
#37
Ethyl Acetate
Concen: 21.847 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	176.9	0.0	0.0#
70	7.6	8.2	12.2#

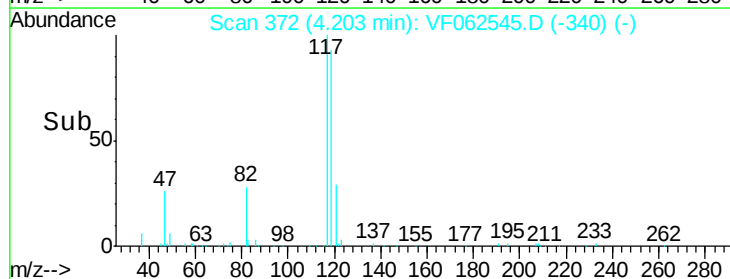
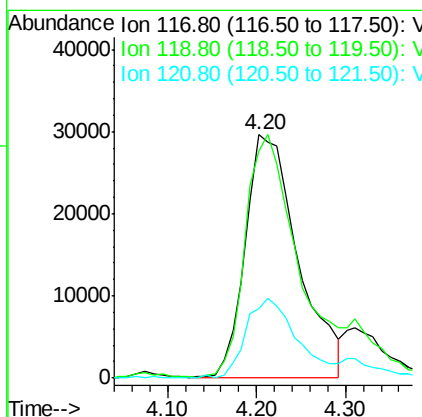
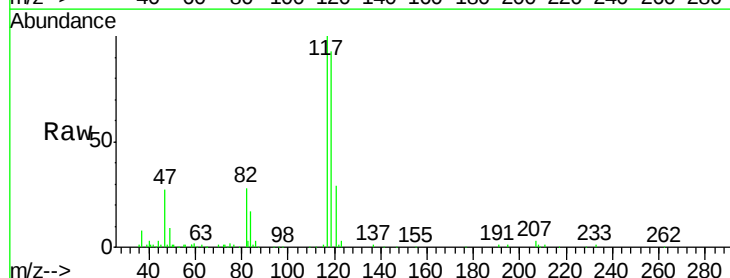
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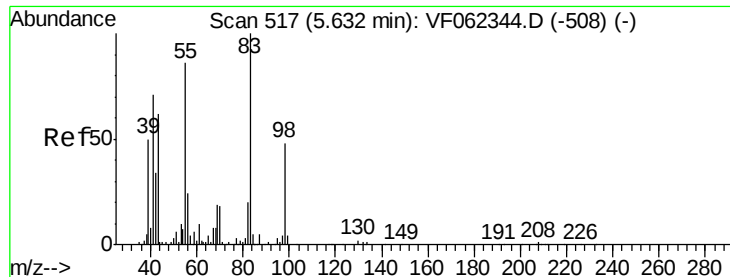
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#38
Carbon Tetrachloride
Concen: 29.119 ug/l
RT: 4.20 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	73.4	110.2
121	28.8	27.4	41.0





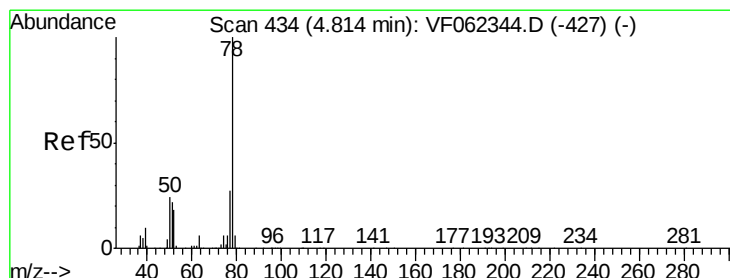
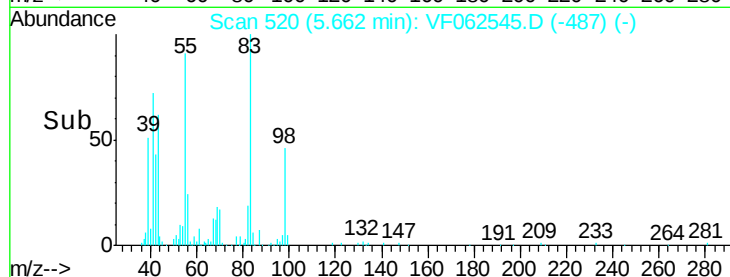
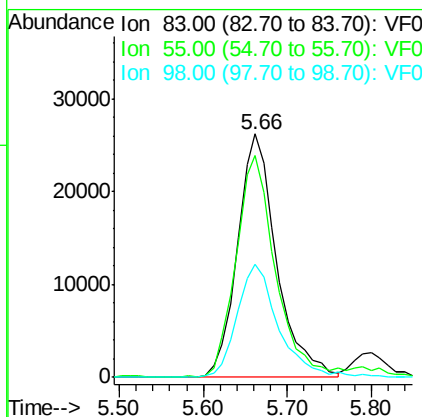
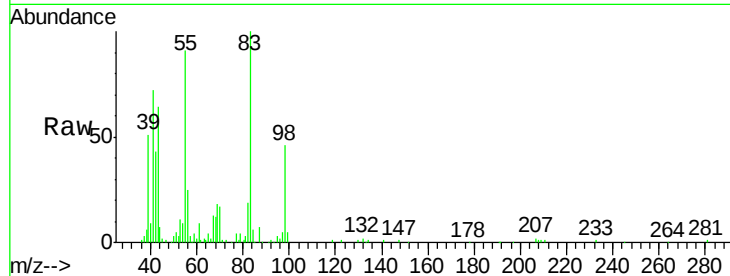
#39
Methvlcvclohexane
Concen: 22.042 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.7	69.0	103.6
98	46.4	38.6	58.0

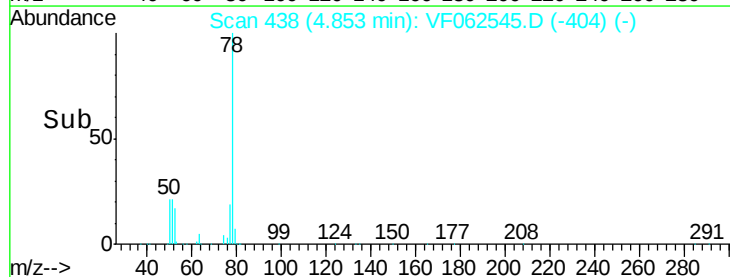
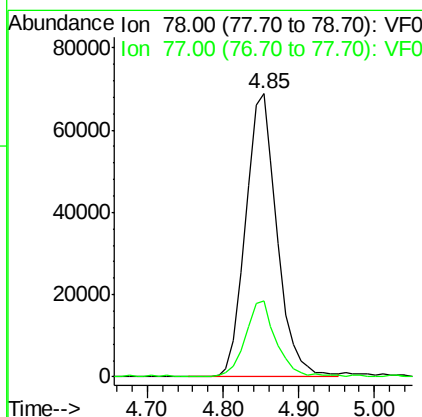
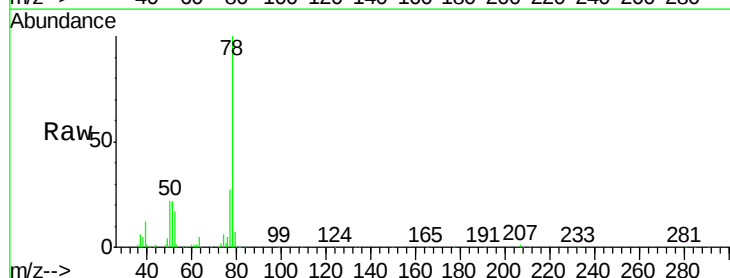
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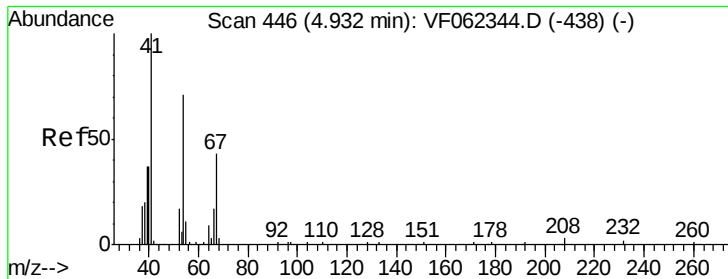
MMDadoda
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#40
Benzene
Concen: 23.514 ug/l
RT: 4.85 min Scan# 438
Delta R.T. 0.04 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.6	21.6	32.4





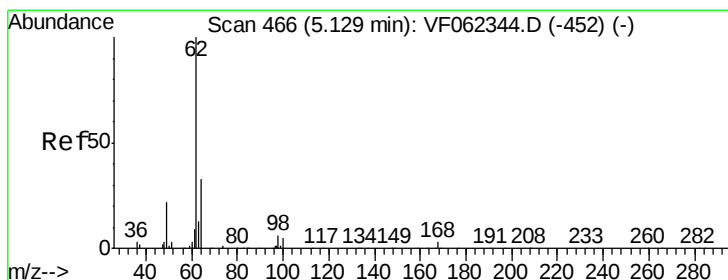
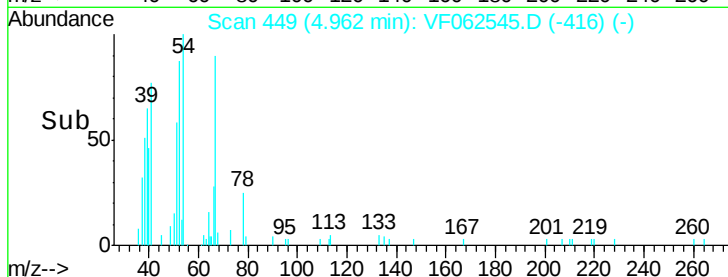
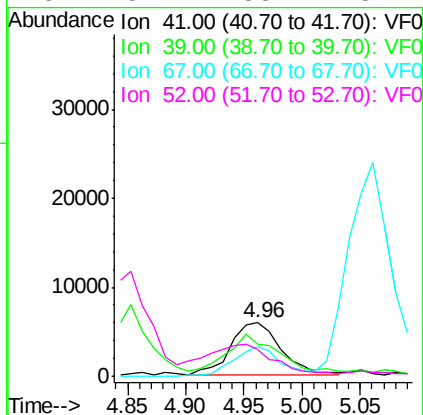
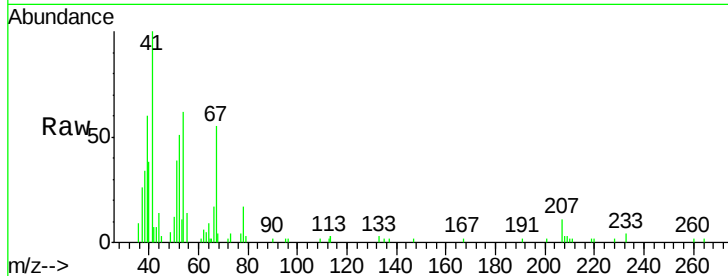
#41
Methacrylonitrile
Concen: 19.334 ug/l
RT: 4.96 min Scan# 449
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		17826		
39	68.4	54.3	81.5		
67	52.4	37.8	56.8		
52	84.7	58.2	87.4		

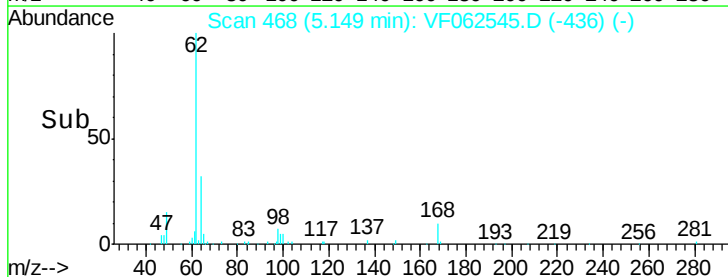
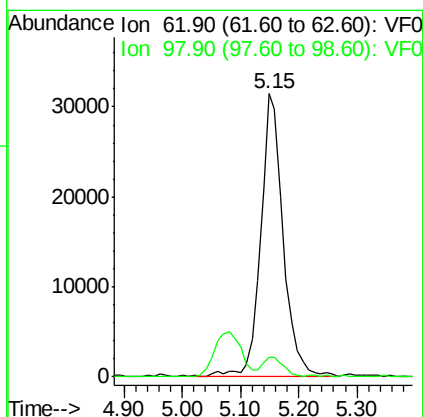
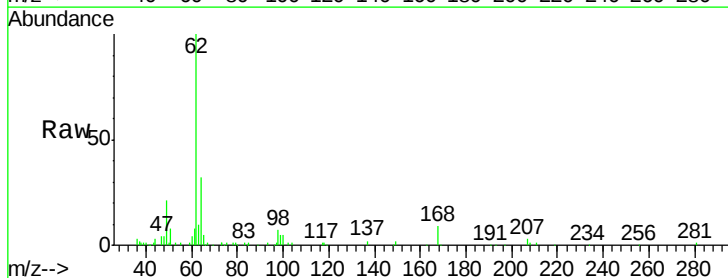
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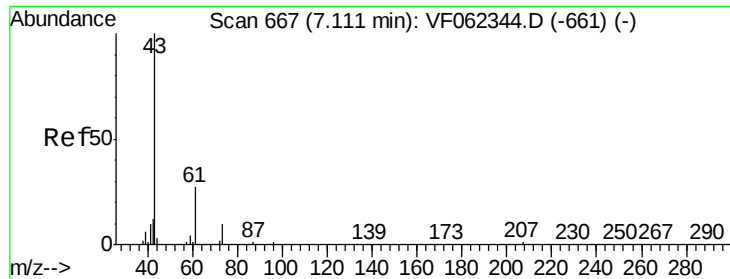
MMDadoda
5/14/2019 11:21:25 AM



#42
1,2-Dichloroethane
Concen: 24.367 ug/l
RT: 5.15 min Scan# 468
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		86290		
98	6.2	0.0	12.4		





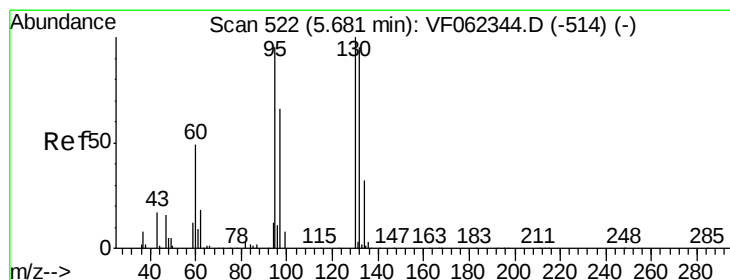
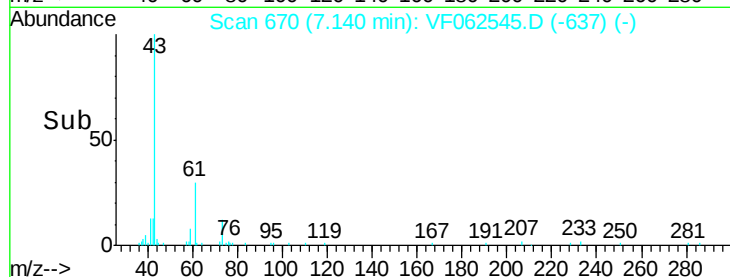
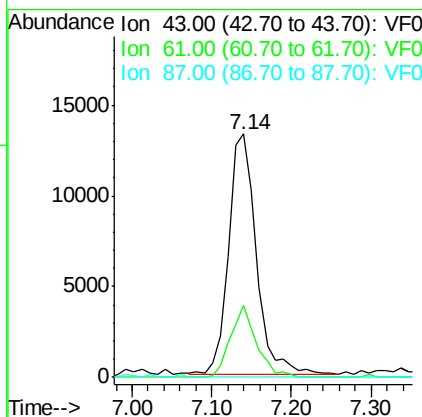
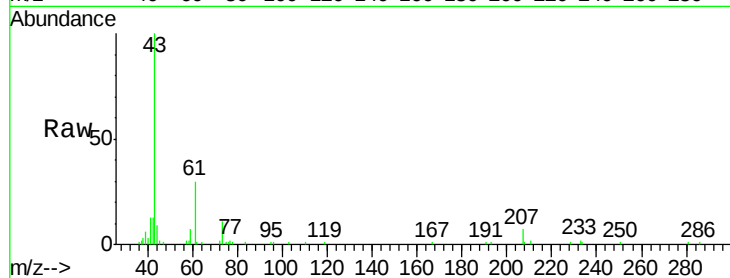
#43
Isopropyl Acetate
Concen: 18.273 ug/l
RT: 7.14 min Scan# 670
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.6	22.8	34.2
87	0.0	0.6	1.0

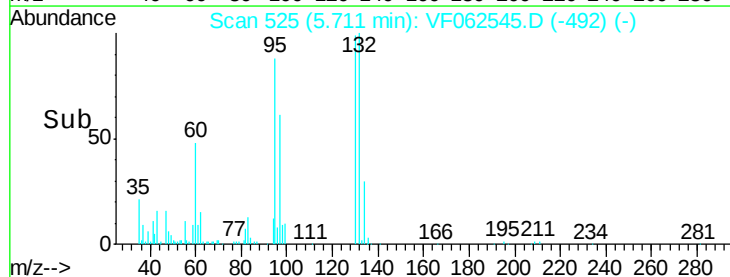
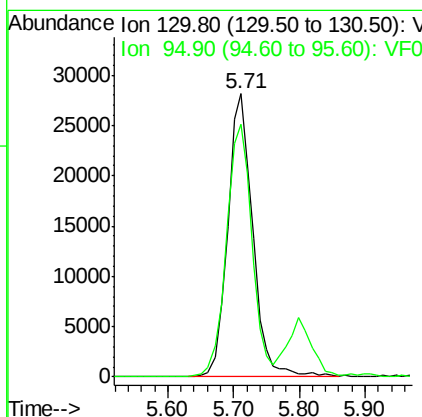
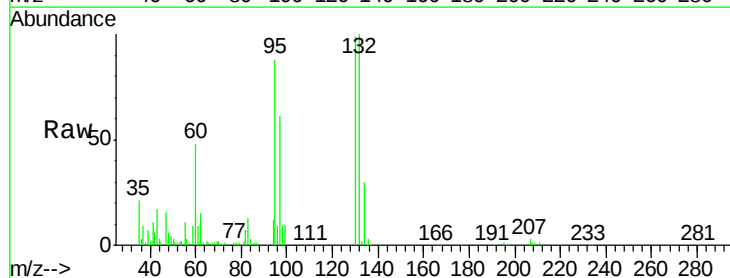
Manual Integrations
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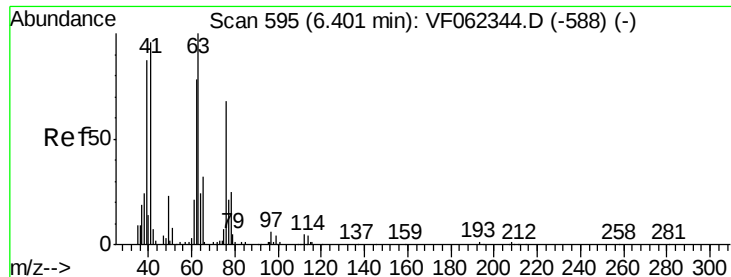
MMDadoda
5/14/2019 11:21:25 AM



#44
Trichloroethene
Concen: 24.128 ug/l
RT: 5.71 min Scan# 525
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.7	0.0	189.0





#45

1,2-Dichloropropane

Concen: 23.221 ug/l

RT: 6.44 min Scan# 599

Delta R.T. 0.04 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 63 Resp: 44534

Ion Ratio Lower Upper

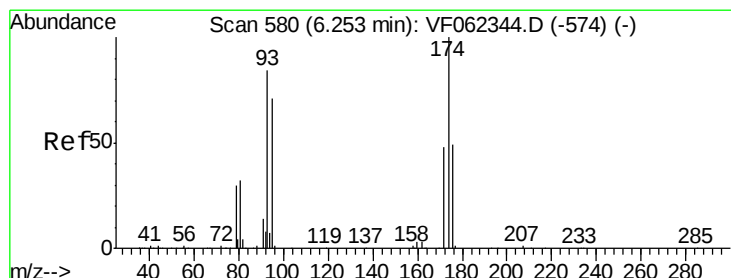
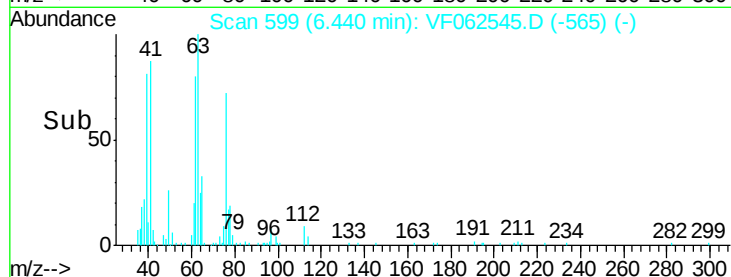
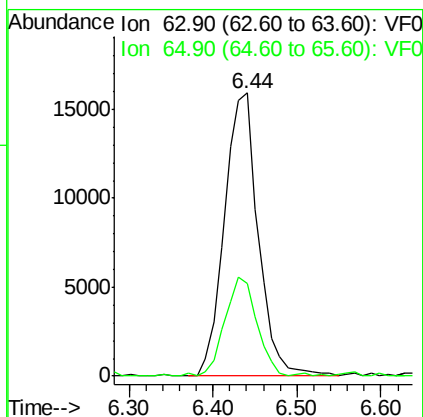
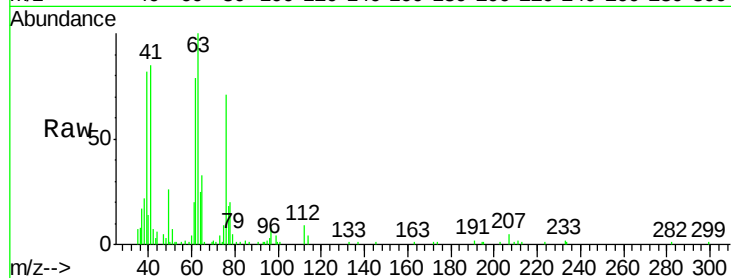
63 100

65 32.3 25.6 38.4

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#46

Dibromomethane

Concen: 22.031 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

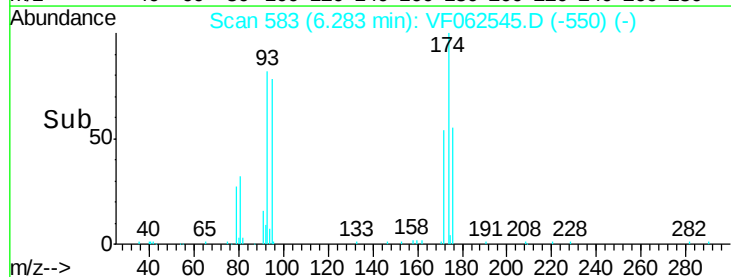
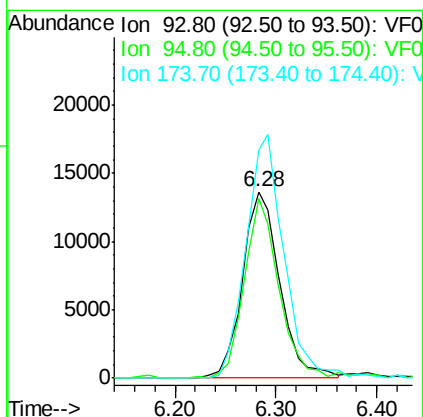
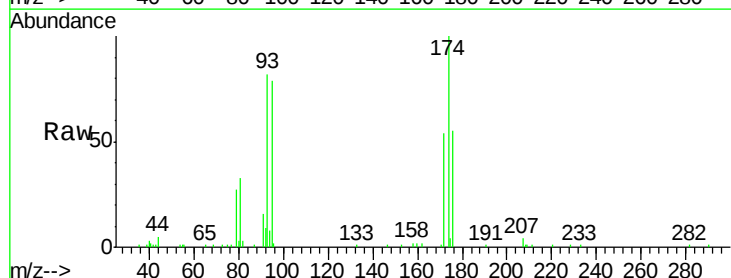
Tgt Ion: 93 Resp: 35033

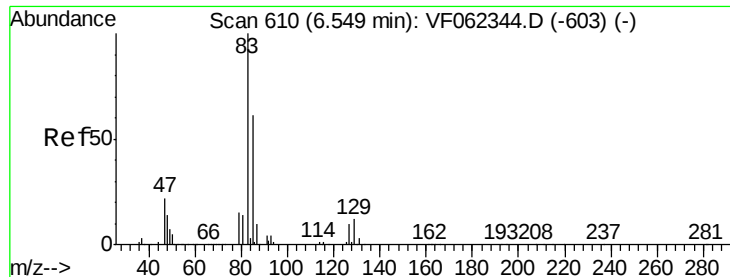
Ion Ratio Lower Upper

93 100

95 91.3 68.4 102.6

174 133.5 99.6 149.4





#47

Bromodichloromethane

Concen: 22.866 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

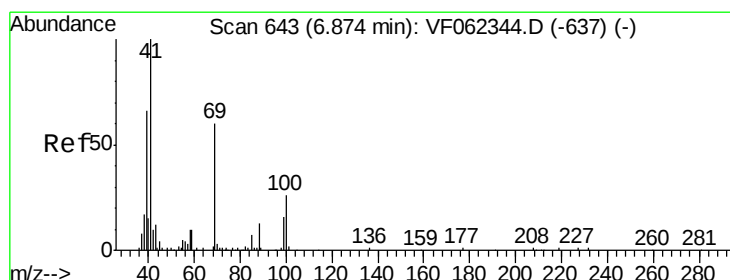
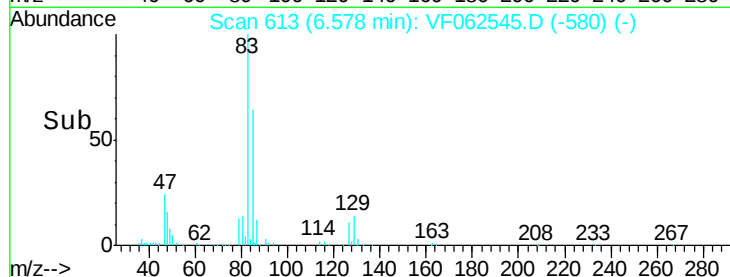
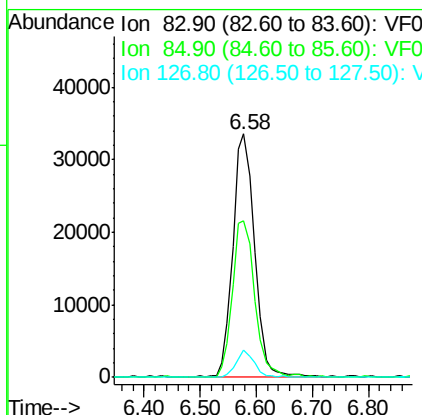
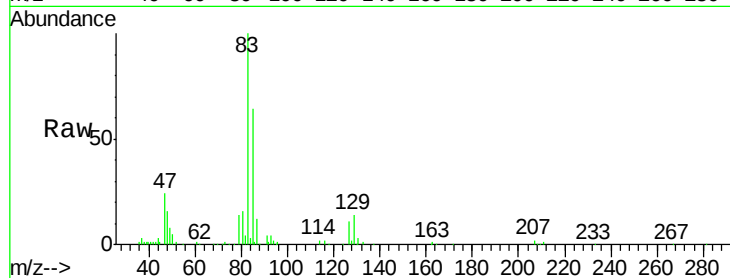
ClientSampleId :

VF0513SBS01

Tot Ion:	83	Resp:	90908
Ion Ratio	Lower	Upper	
83	100		
85	64.1	49.1	73.7
127	11.3	7.8	11.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.899 ug/l

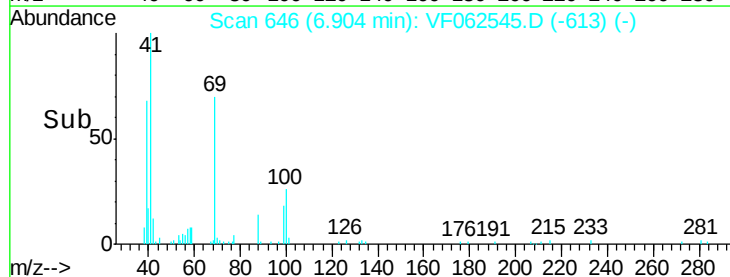
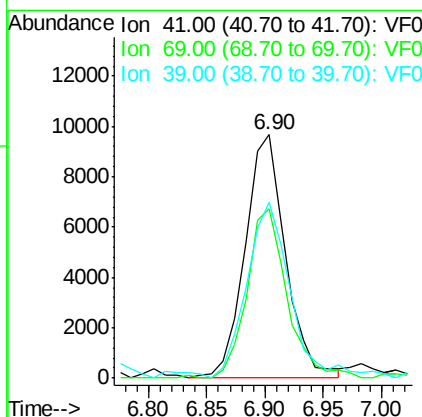
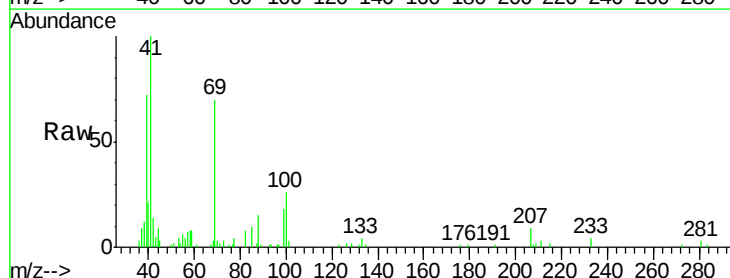
RT: 6.90 min Scan# 646

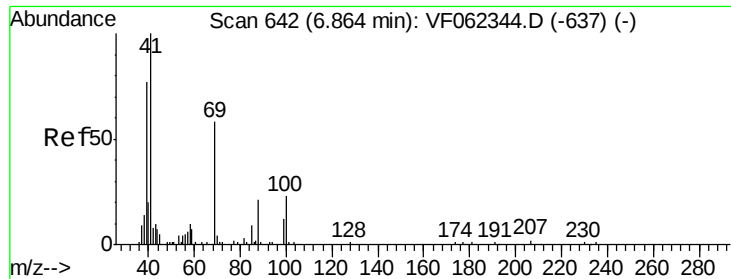
Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	41	Resp:	23359
Ion Ratio	Lower	Upper	
41	100		
69	68.6	48.6	72.8
39	77.9	56.1	84.1





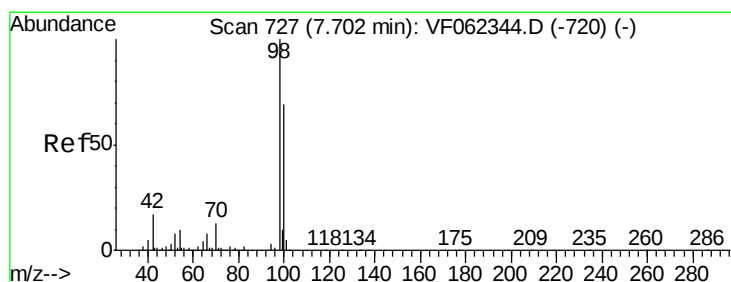
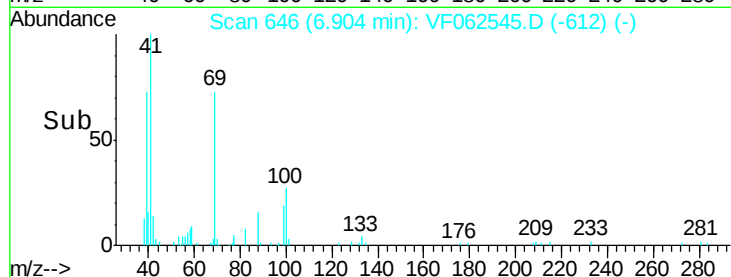
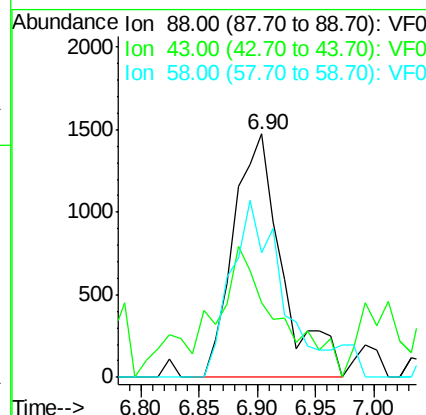
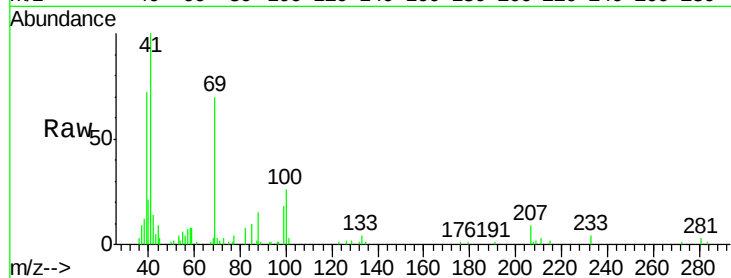
#49
1,4-Dioxane
Concen: 328.311 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	75.7	55.6	83.4
58	75.8	52.8	79.2

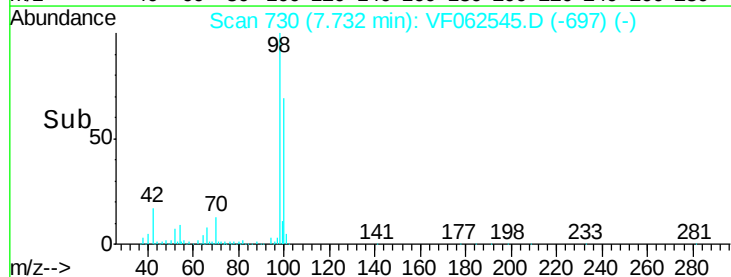
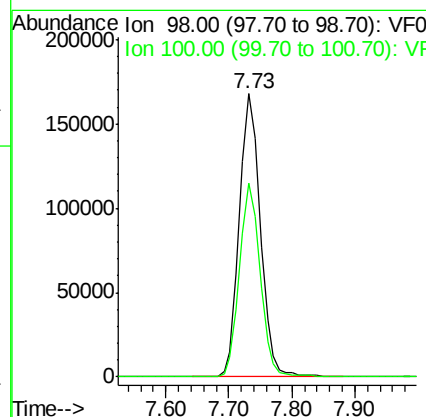
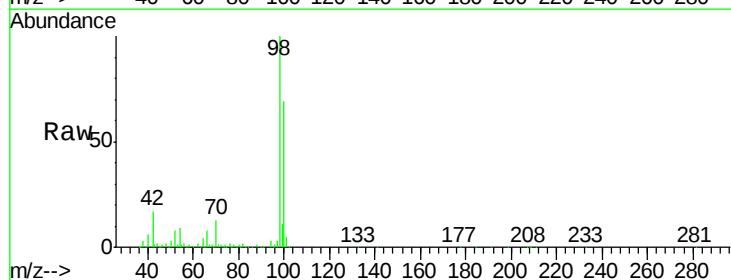
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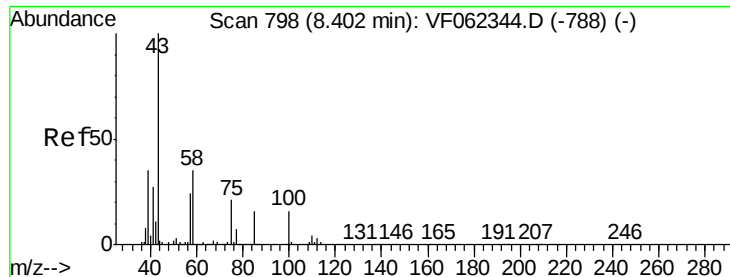
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#50
Toluene-d8
Concen: 44.922 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 108.456 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 43 Resp: 143734

Ion Ratio Lower Upper

43 100

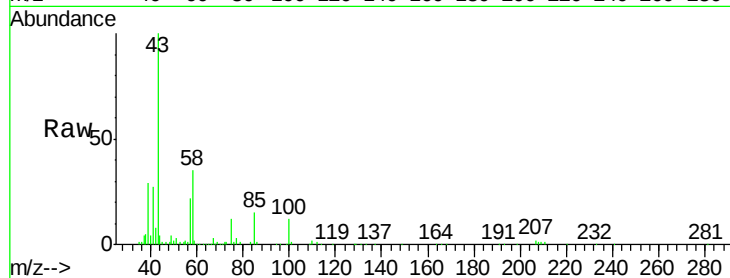
58 34.2 27.8 41.6

Manual Integrations

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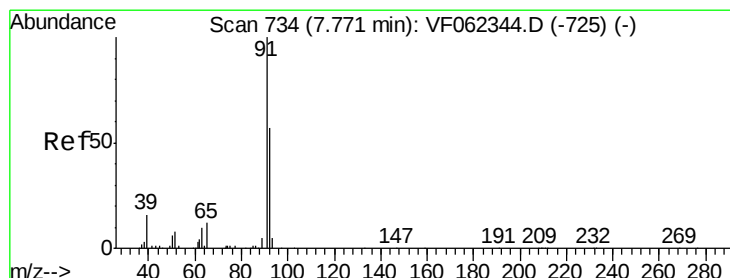
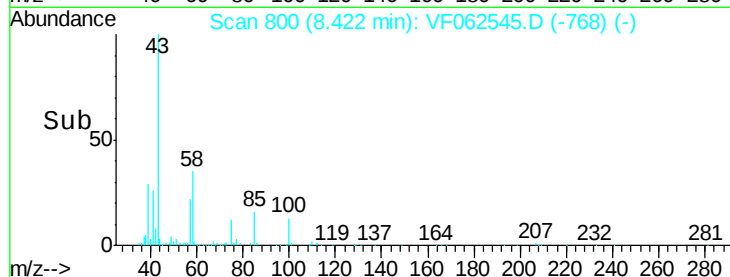
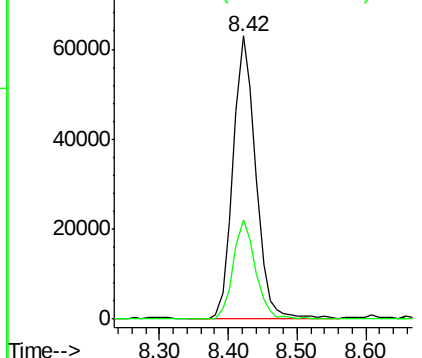
MMDadoda

5/14/2019 11:21:25 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 24.068 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF062545.D

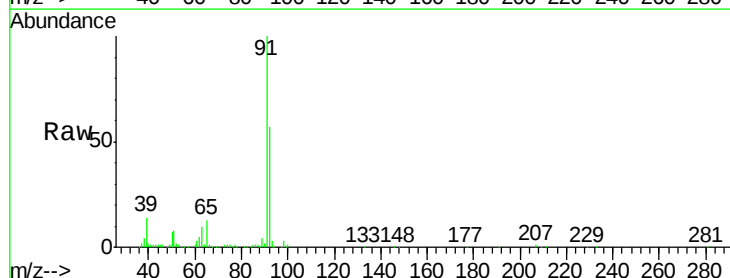
Acq: 13 May 2019 16:51

Tgt Ion: 92 Resp: 125718

Ion Ratio Lower Upper

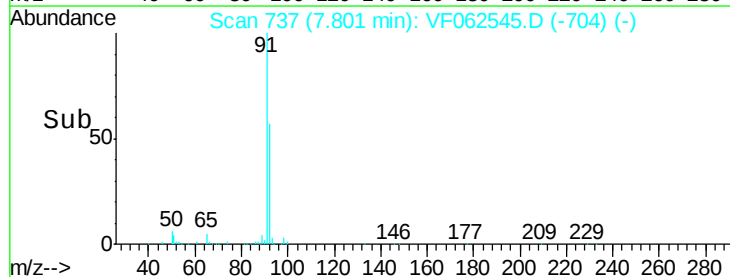
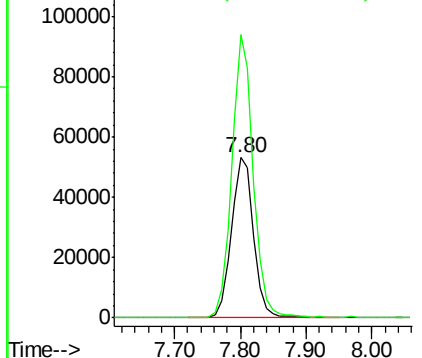
92 100

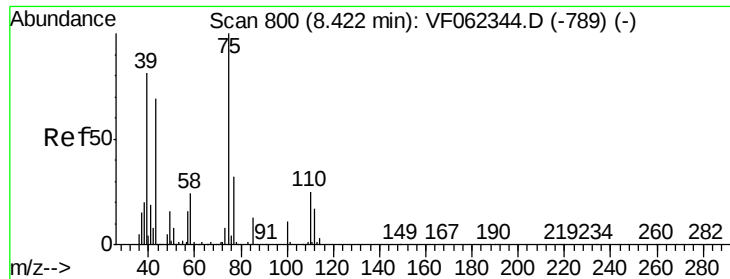
91 170.9 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





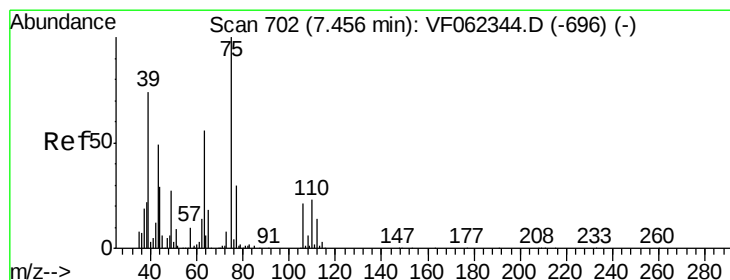
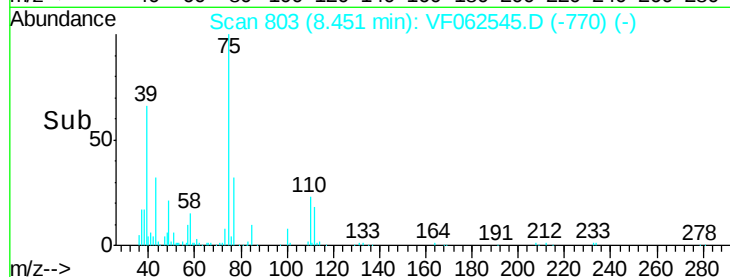
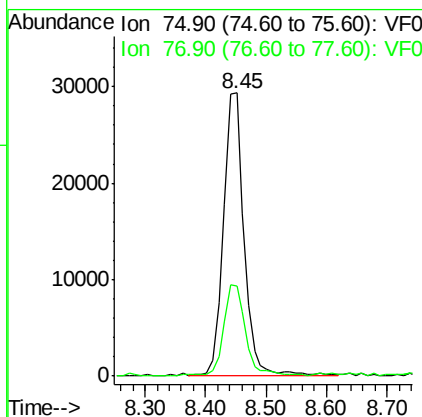
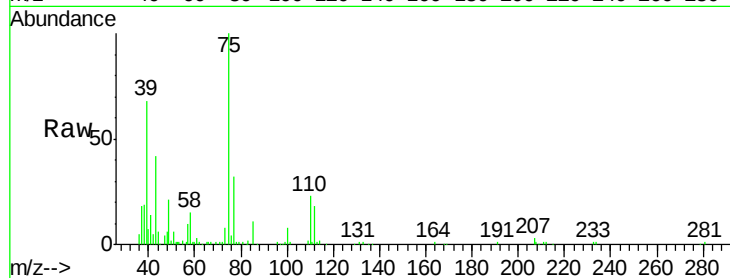
#53
t-1,3-Dichloropropene
Concen: 23.322 ug/l
RT: 8.45 min Scan# 803
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0

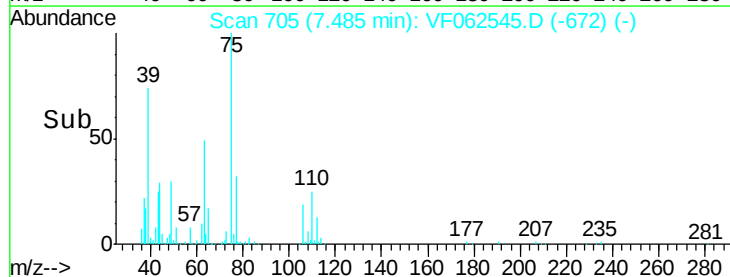
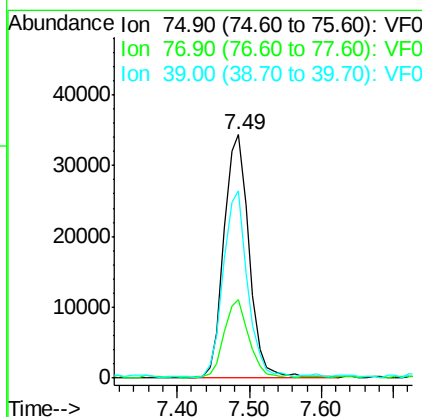
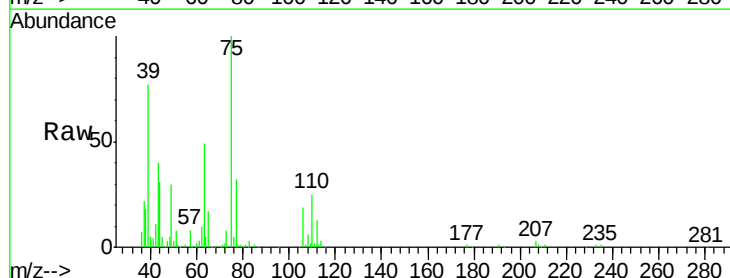
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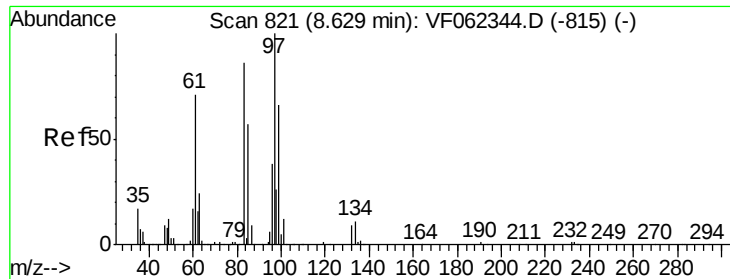
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 23.862 ug/l
RT: 7.49 min Scan# 705
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	76.4	58.7	88.1





#55

1,1,2-Trichloroethane

Concen: 24.139 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

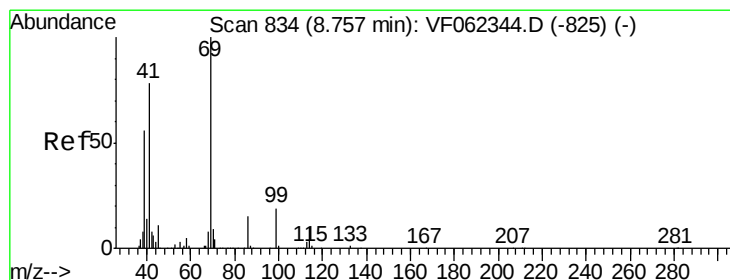
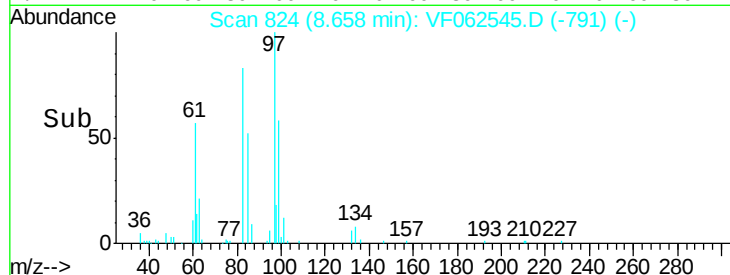
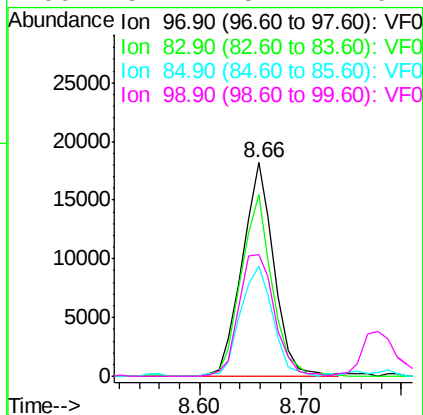
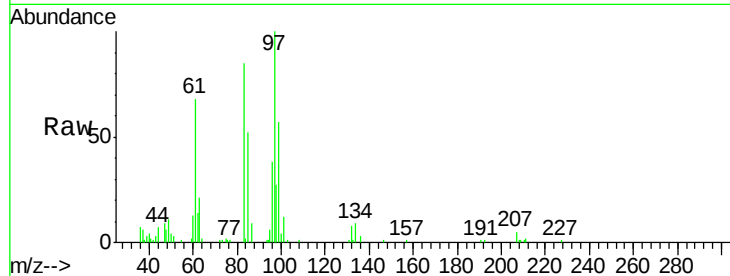
ClientSampleId :

VF0513SBS01

Tot Ion:	97	Resp:	40028
Ion	Ratio	Lower	Upper
97	100		
83	85.3	68.5	102.7
85	51.5	45.4	68.2
99	57.2	52.7	79.1

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#56

Ethyl methacrylate

Concen: 21.122 ug/l

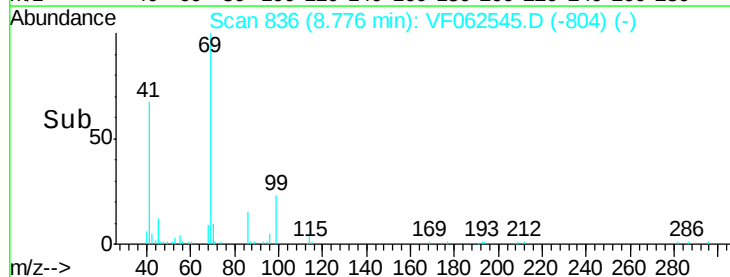
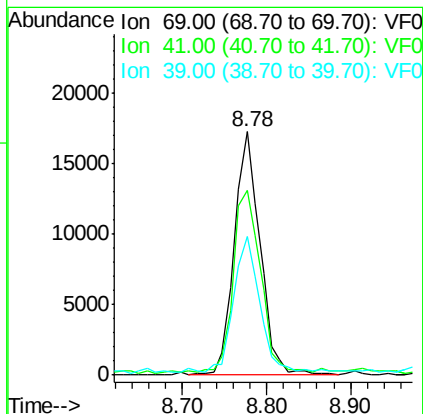
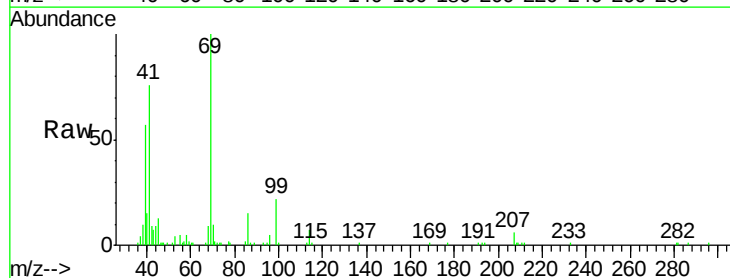
RT: 8.78 min Scan# 836

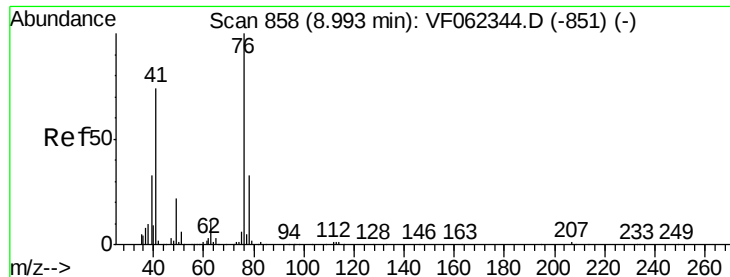
Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	69	Resp:	36973
Ion	Ratio	Lower	Upper
69	100		
41	77.4	66.3	99.5
39	57.0	50.1	75.1





#57

1,3-Dichloropropane

Concen: 24.099 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 76 Resp: 60361

Ion Ratio Lower Upper

76 100

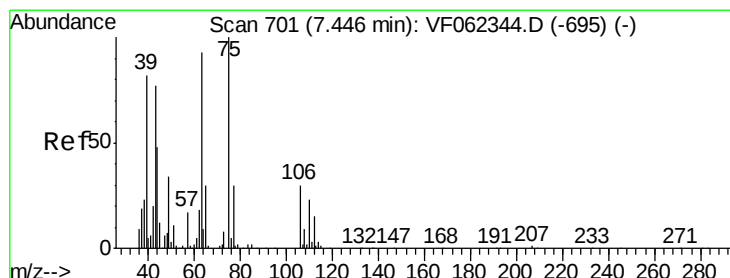
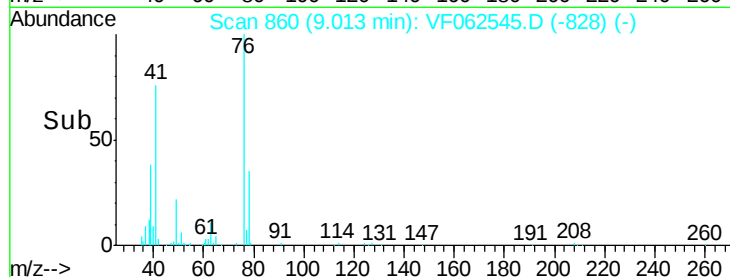
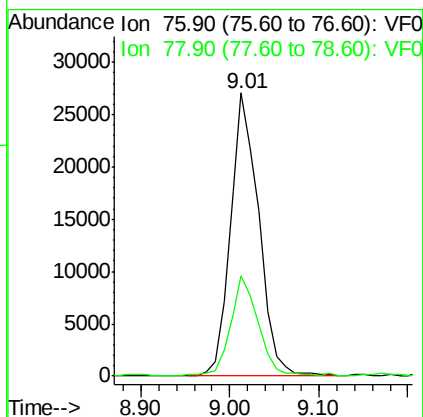
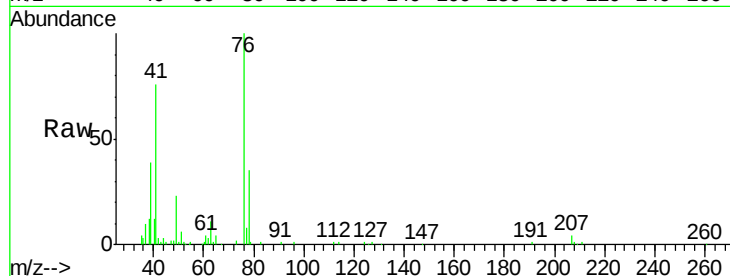
78 34.9 26.4 39.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 107.566 ug/l

RT: 7.47 min Scan# 703

Delta R.T. 0.02 min

Lab File: VF062545.D

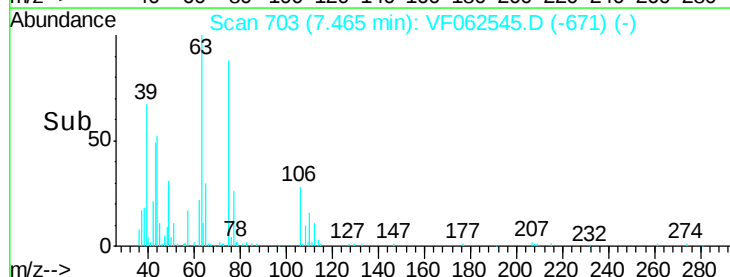
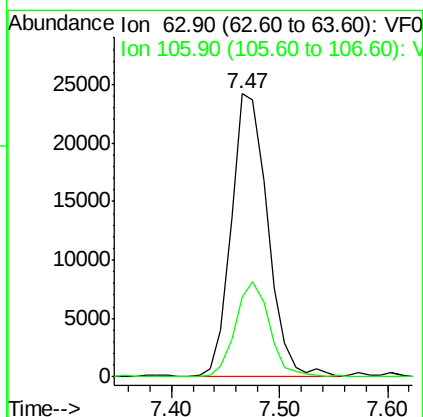
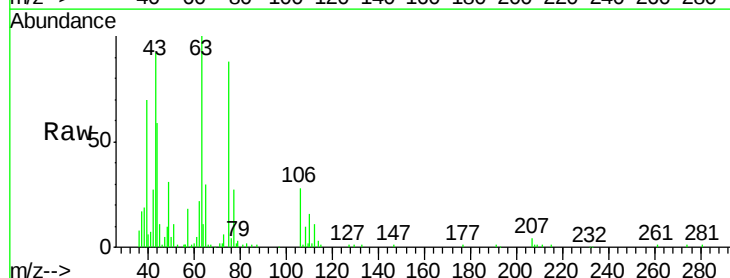
Acq: 13 May 2019 16:51

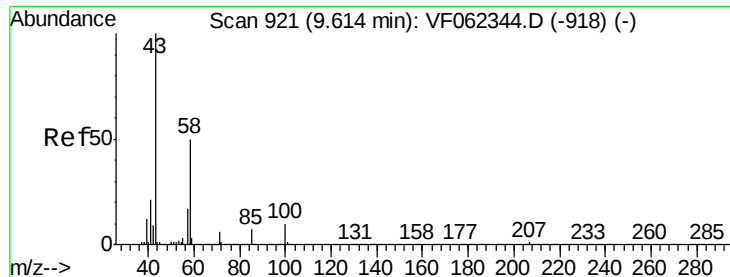
Tgt Ion: 63 Resp: 56607

Ion Ratio Lower Upper

63 100

106 31.8 25.8 38.8





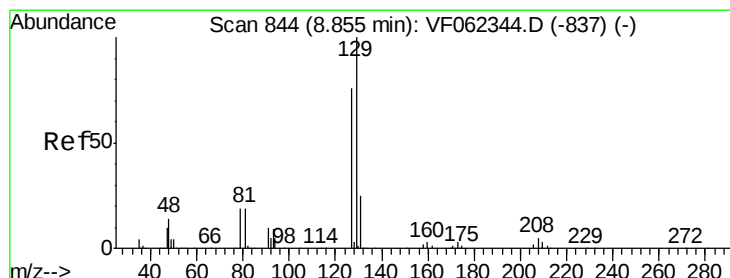
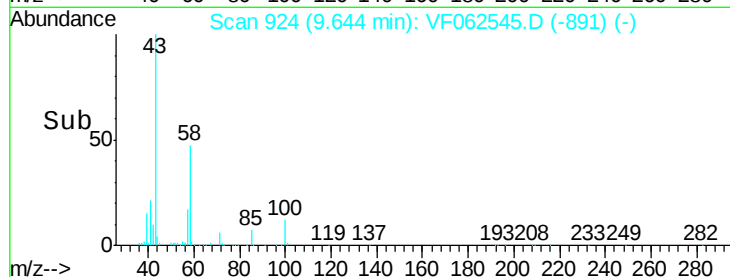
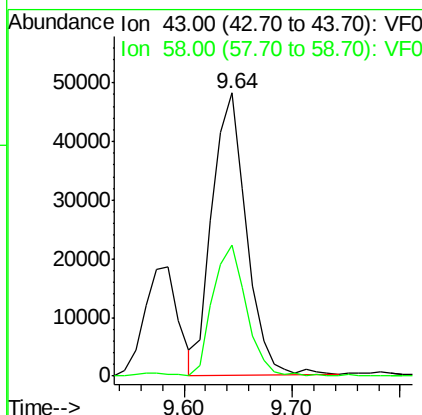
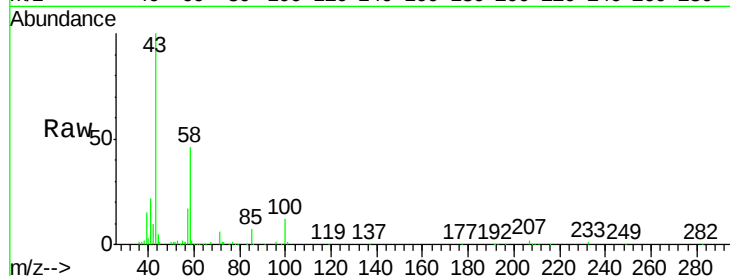
#59
2-Hexanone
Concen: 115.171 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion: 43 Resp: 105561
Ion Ratio Lower Upper
43 100
58 45.6 24.3 73.0

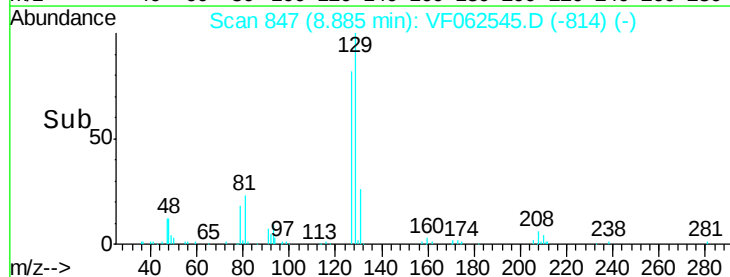
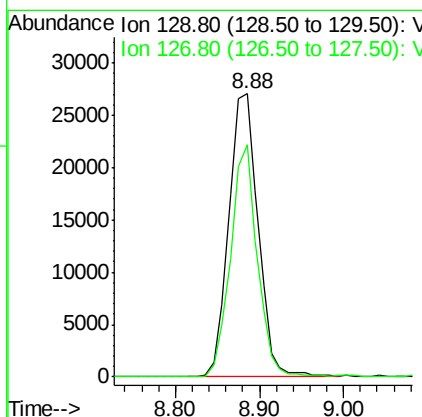
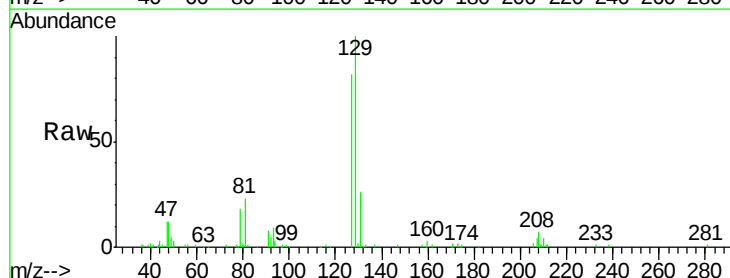
Manual Integrations
APPROVED

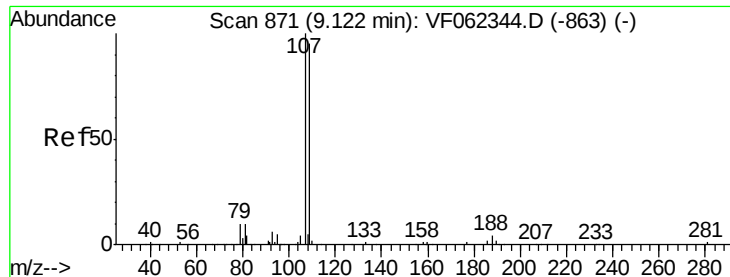
MMDadoda
5/14/2019 11:21:25 AM



#60
Dibromochloromethane
Concen: 24.138 ug/l
RT: 8.88 min Scan# 847
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion: 129 Resp: 65464
Ion Ratio Lower Upper
129 100
127 74.9 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.914 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 107 Resp: 42708

Ion Ratio Lower Upper

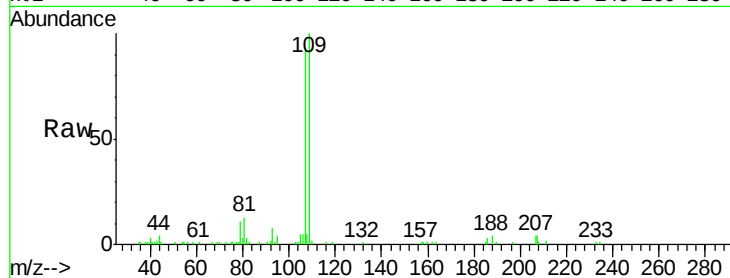
107 100

109 100.4 75.2 112.8

Manual Integrations
APPROVED

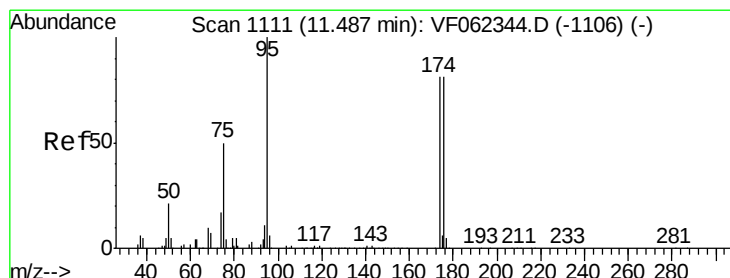
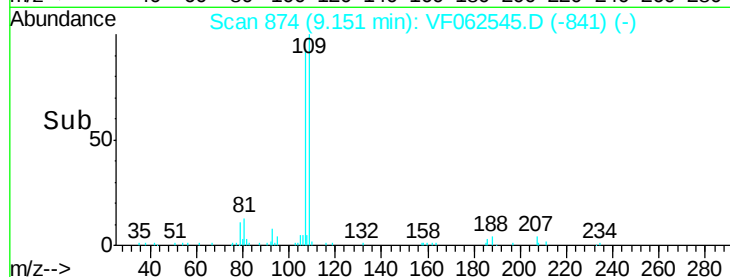
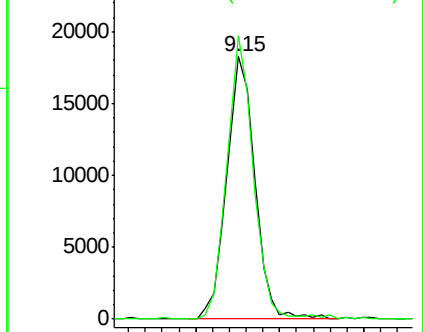
MMDadoda

5/14/2019 11:21:25 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.263 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

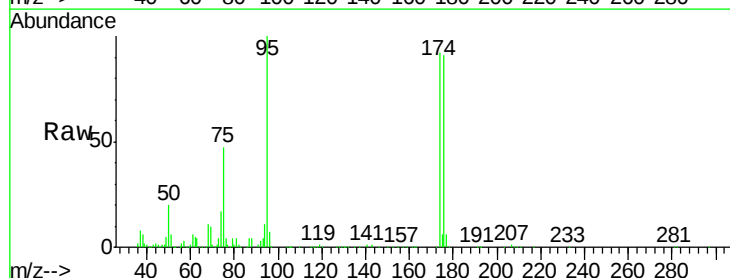
Tgt Ion: 95 Resp: 184067

Ion Ratio Lower Upper

95 100

174 99.2 0.0 191.8

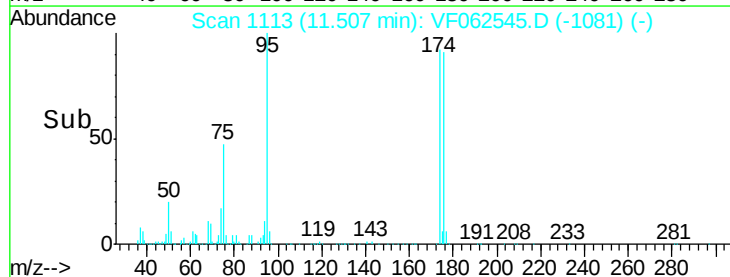
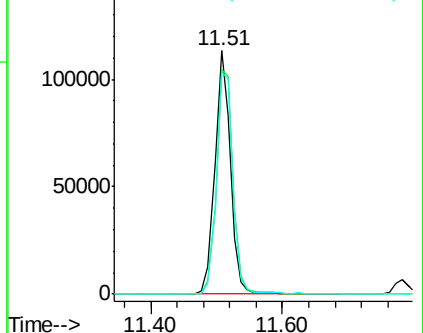
176 96.2 0.0 193.2

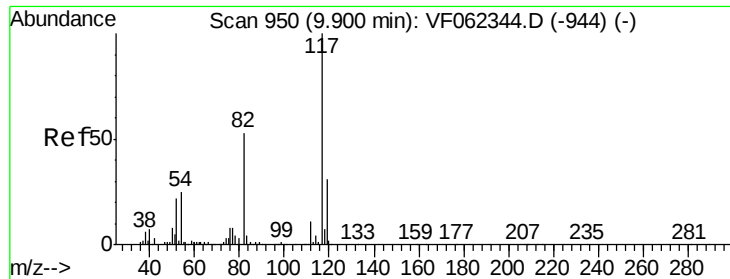


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





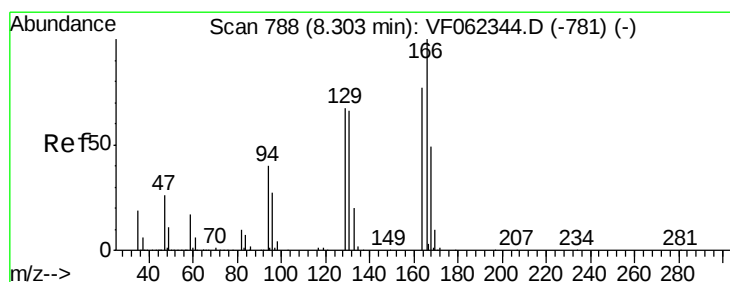
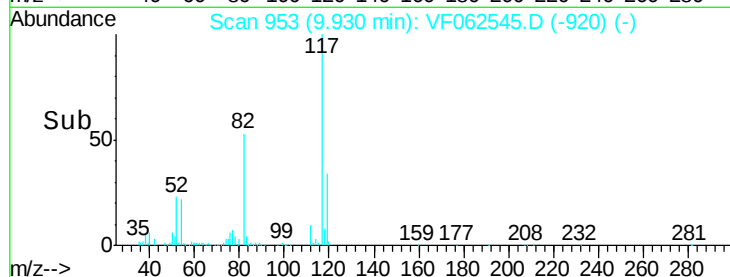
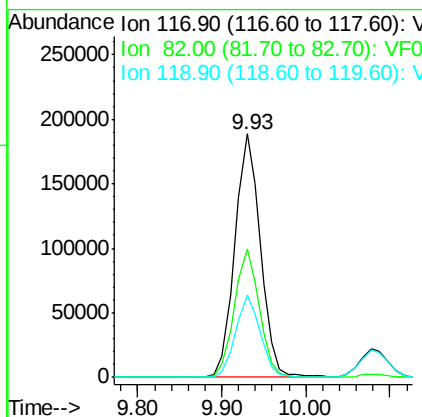
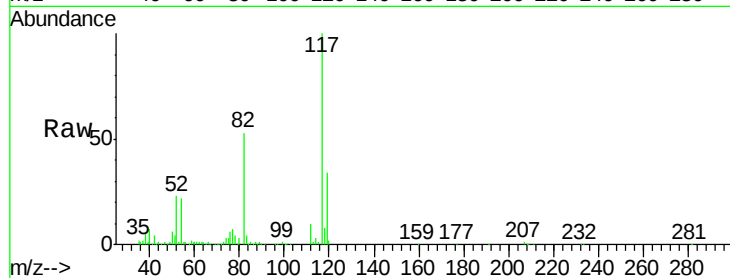
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.2
119	33.7	25.0	37.4

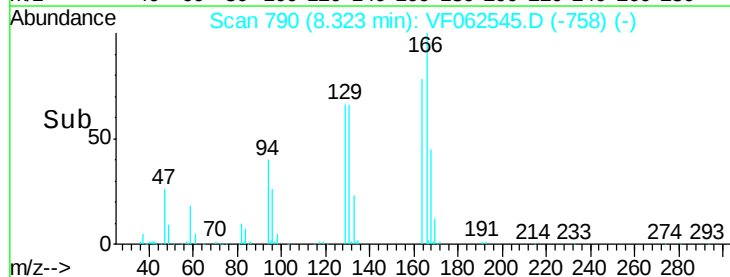
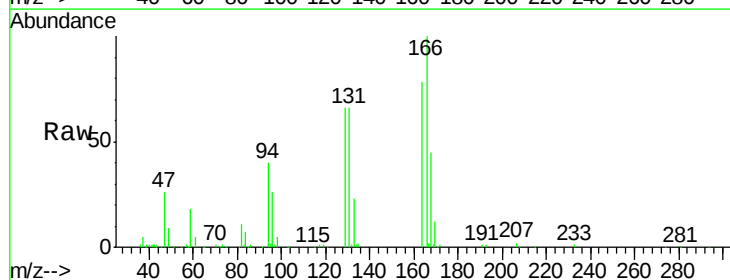
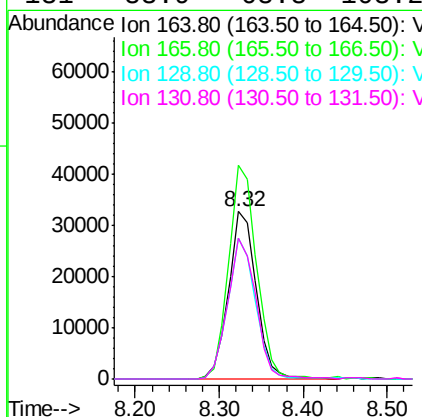
Manual Integrations
APPROVED

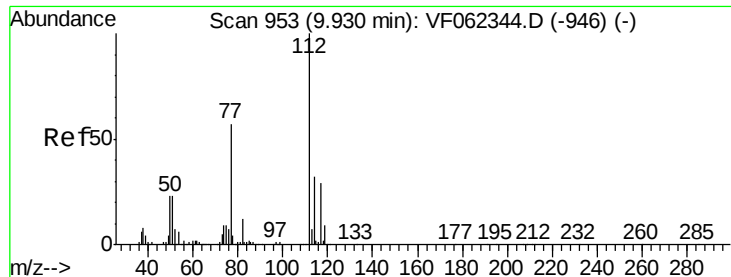
MMDadoda
5/14/2019 11:21:25 AM



#64
Tetrachloroethene
Concen: 23.096 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	104.2	156.4
129	84.4	69.6	104.4
131	83.9	68.8	103.2





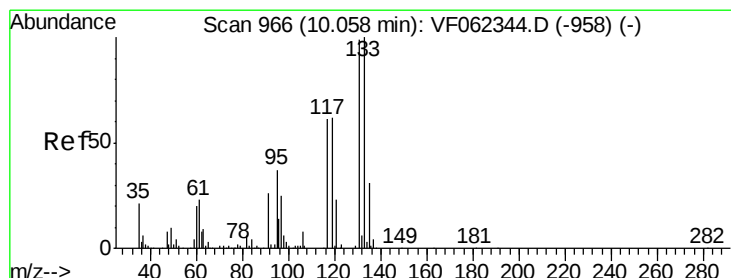
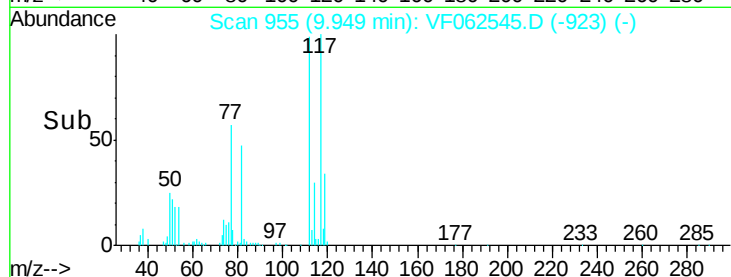
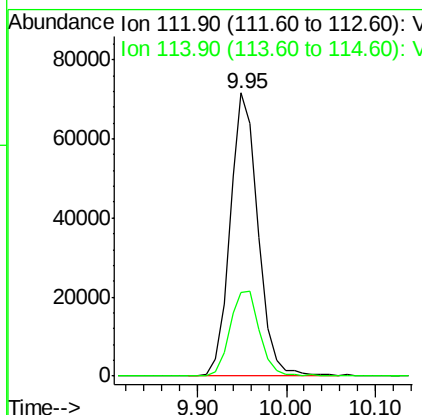
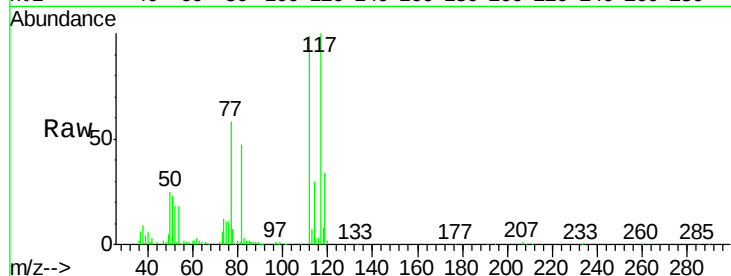
#65
Chlorobenzene
Concen: 23.651 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.8	25.4	38.0

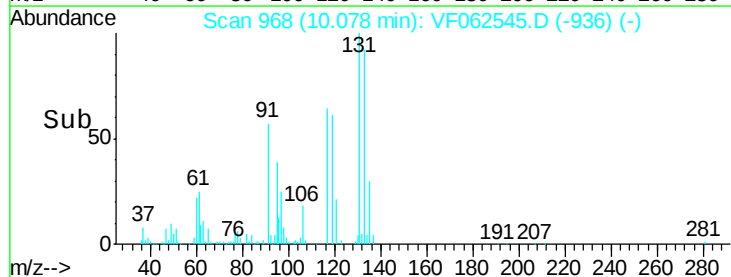
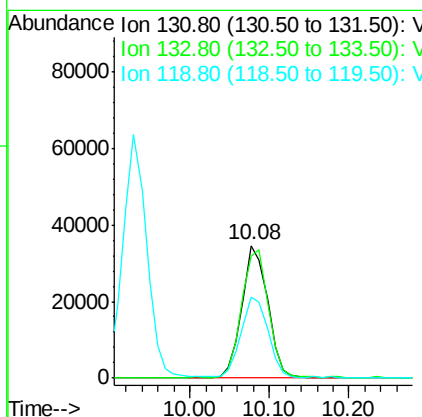
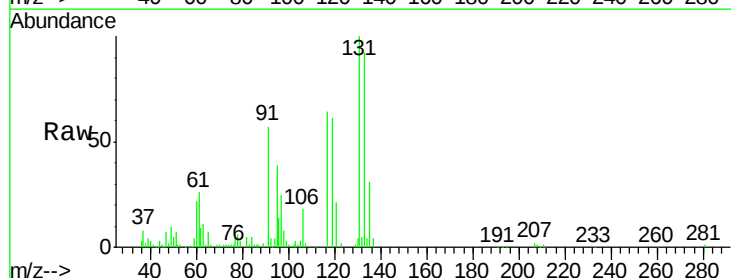
Manual Integrations
APPROVED

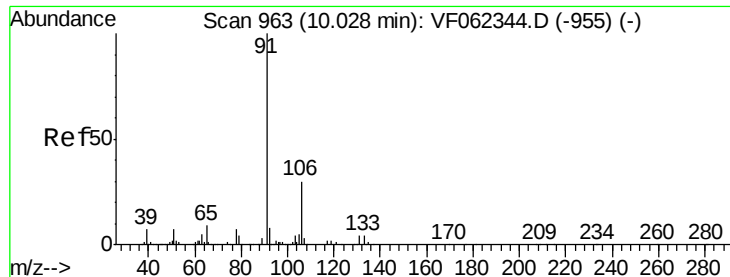
MMDadoda
5/14/2019 11:21:25 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.337 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
131	100		
133	99.5	50.2	150.7
119	62.4	31.6	95.0





#67

Ethyl Benzene

Concen: 23.947 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 91 Resp: 278327

Ion Ratio Lower Upper

91 100

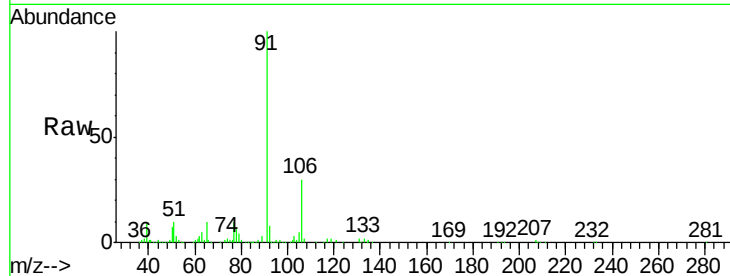
106 30.2 24.1 36.1

Manual Integrations

APPROVED

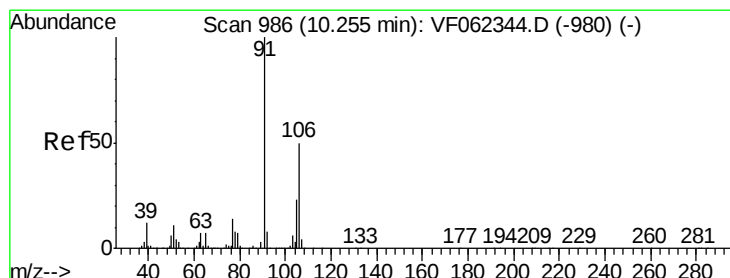
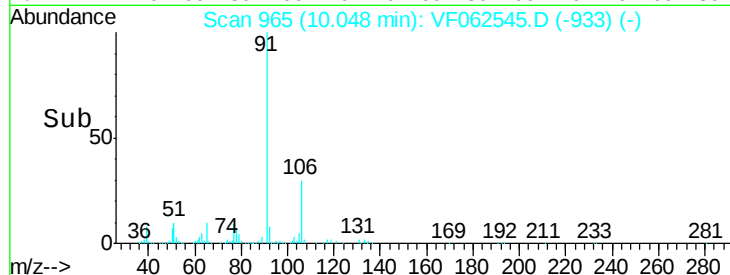
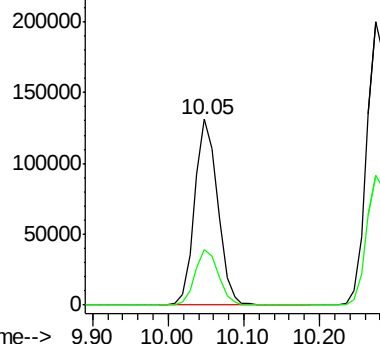
MMDadoda

5/14/2019 11:21:25 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: 46.132 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.02 min

Lab File: VF062545.D

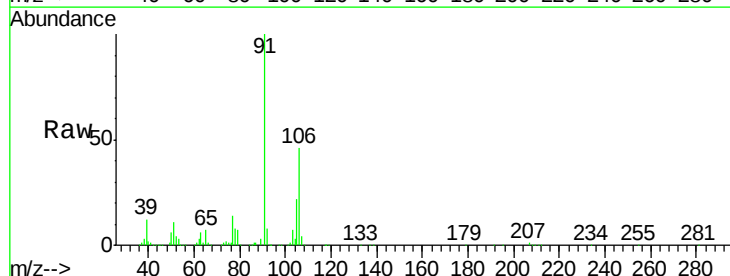
Acq: 13 May 2019 16:51

Tgt Ion: 106 Resp: 197825

Ion Ratio Lower Upper

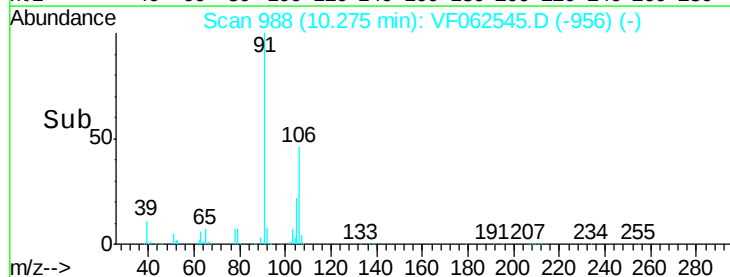
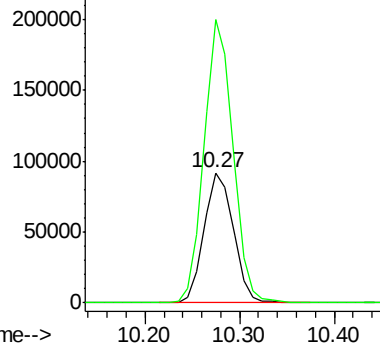
106 100

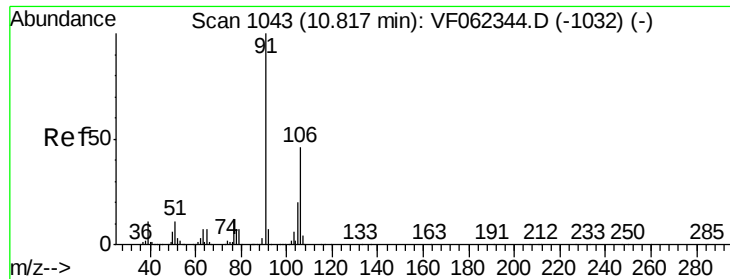
91 213.5 167.4 251.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





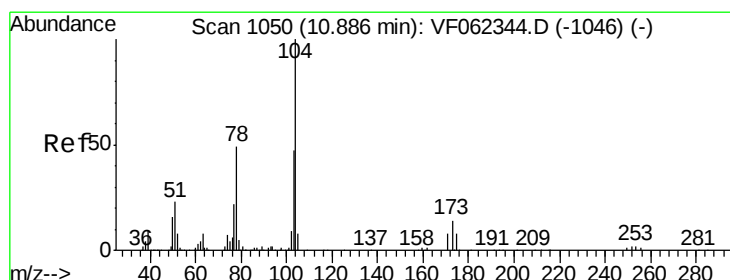
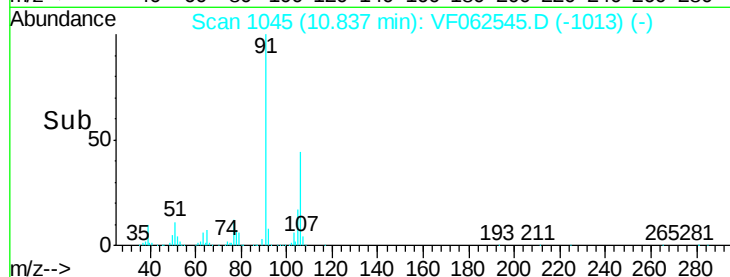
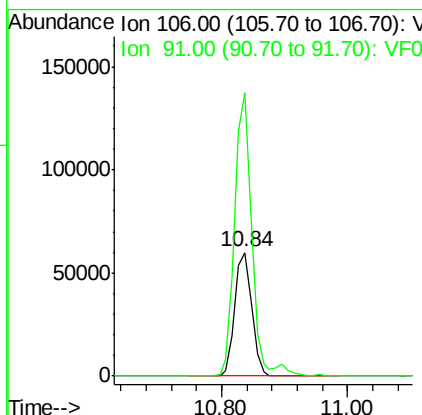
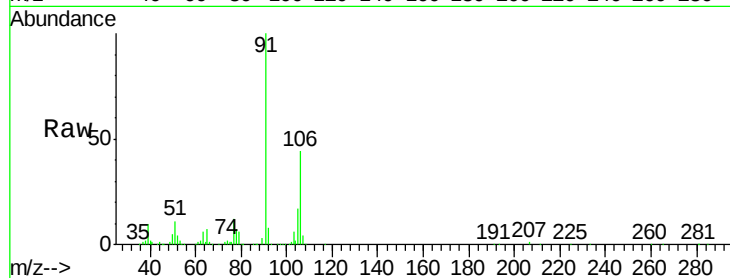
#69
o-Xylene
Concen: 24.182 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	112053		
91	228.4	111.3	333.8	

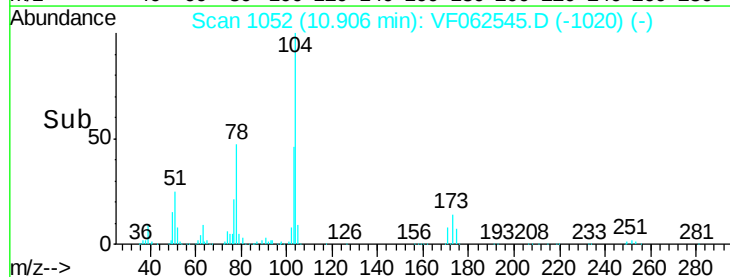
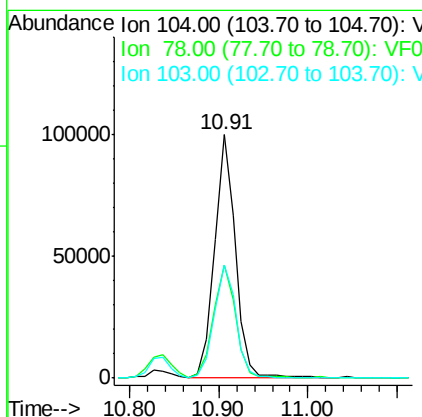
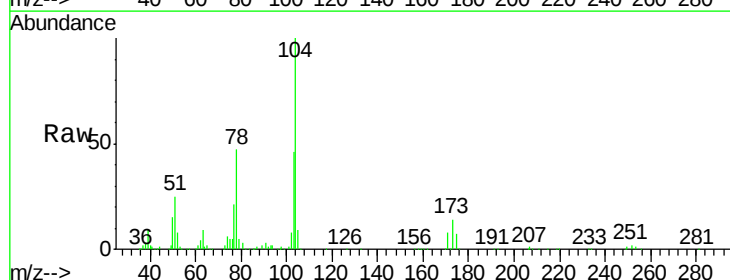
Manual Integrations
APPROVED

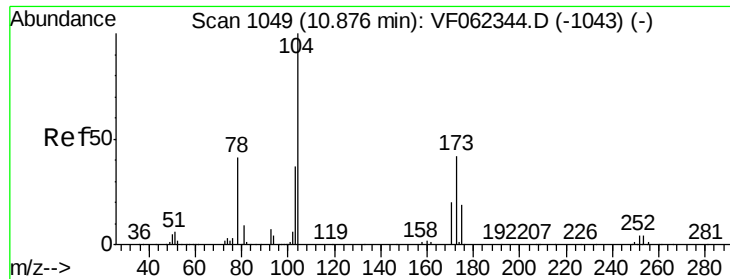
MMDadoda
5/14/2019 11:21:25 AM



#70
Styrene
Concen: 23.461 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	162926		
78	49.0	39.5	59.3	
103	49.0	38.4	57.6	





#71

Bromoform

Concen: 22.067 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

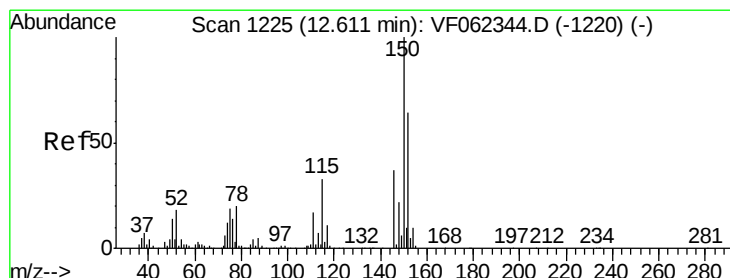
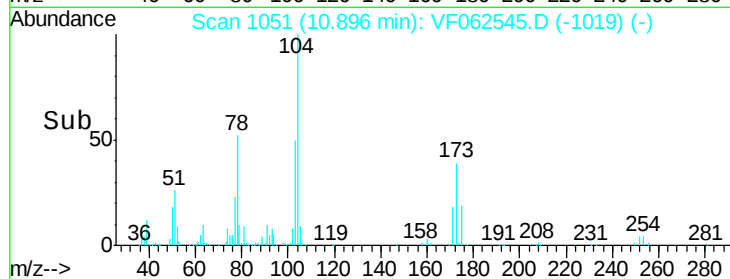
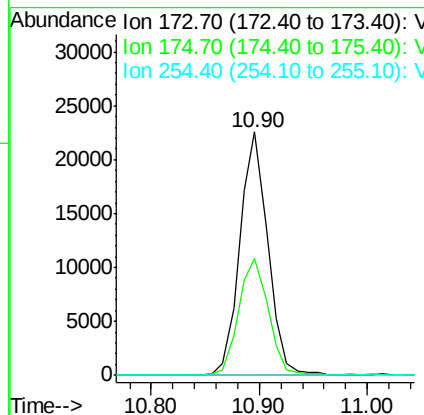
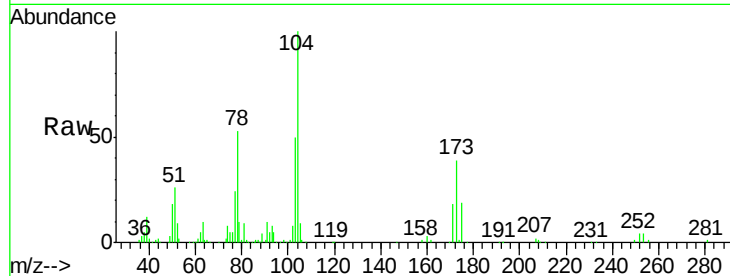
ClientSampleId :

VF0513SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.3	23.8	71.2
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/14/2019 11:21:25 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

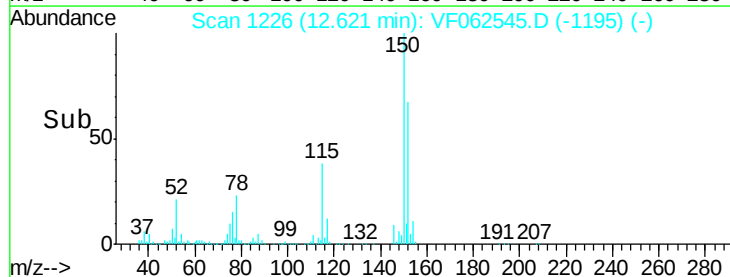
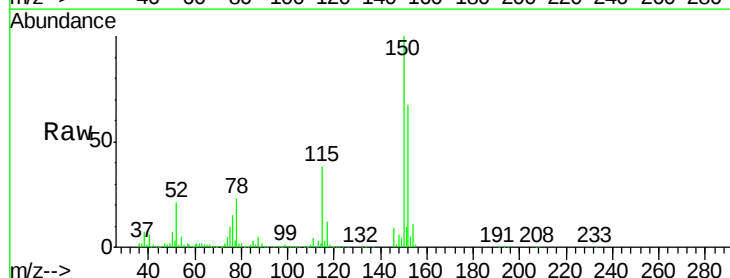
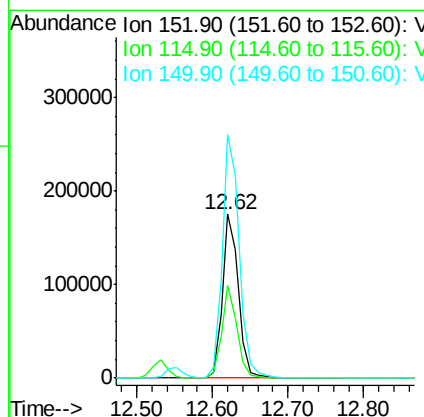
RT: 12.62 min Scan# 1226

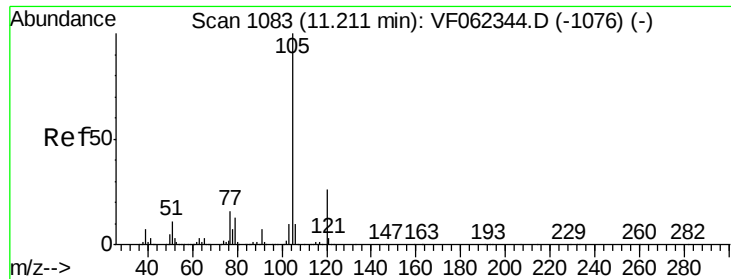
Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	26.4	79.2
150	156.6	0.0	335.0





#73

Isopropylbenzene

Concen: 22.374 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion: 105 Resp: 34518

Ion Ratio Lower Upper

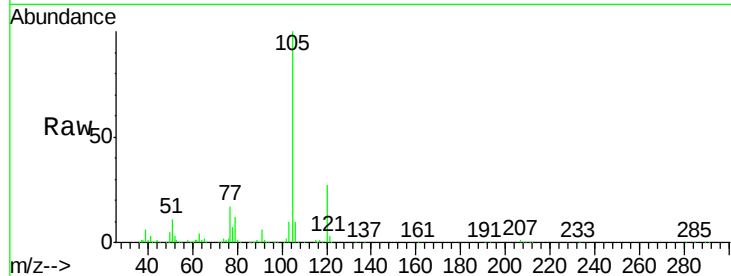
105 100

120 25.8 12.7 38.0

Manual Integrations
APPROVED

MMDadoda

5/14/2019 11:21:25 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

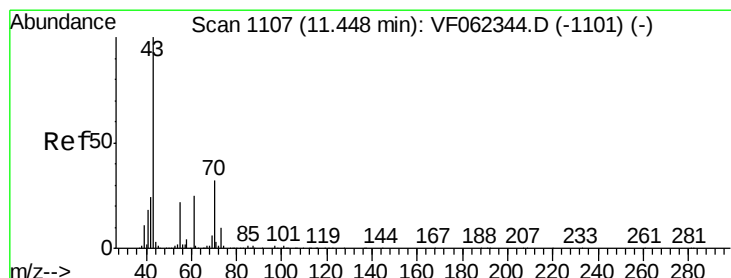
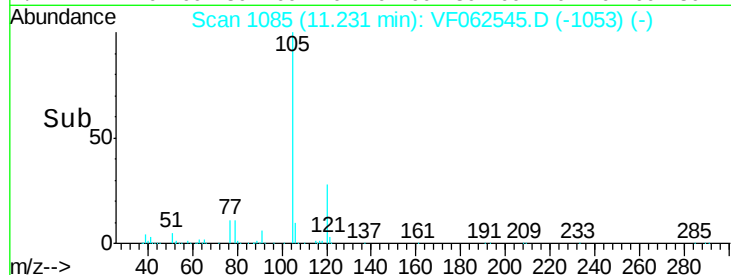
100000

50000

0

11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 18.043 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion: 43 Resp: 59822

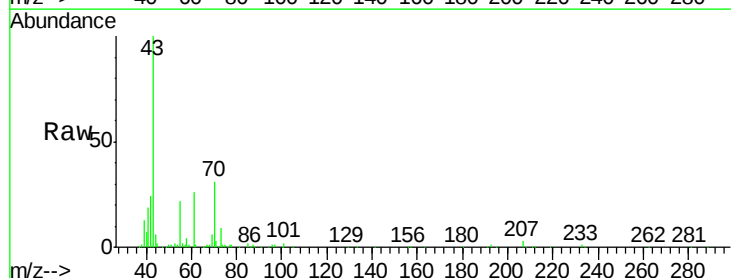
Ion Ratio Lower Upper

43 100

70 35.1 26.5 39.7

55 26.0 17.8 26.6

61 25.1 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

50000

40000

30000

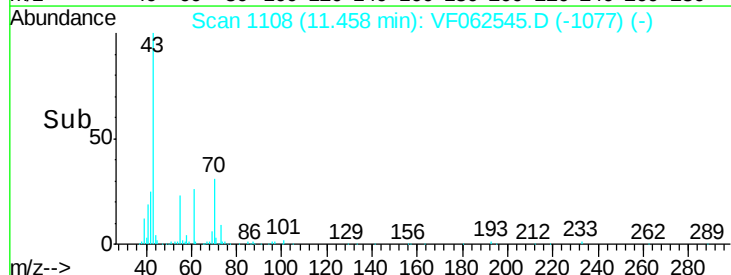
20000

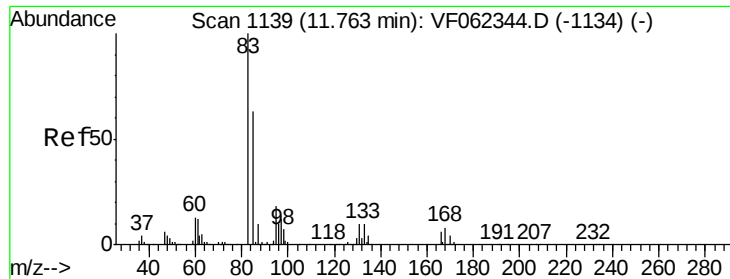
10000

0

11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.614 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

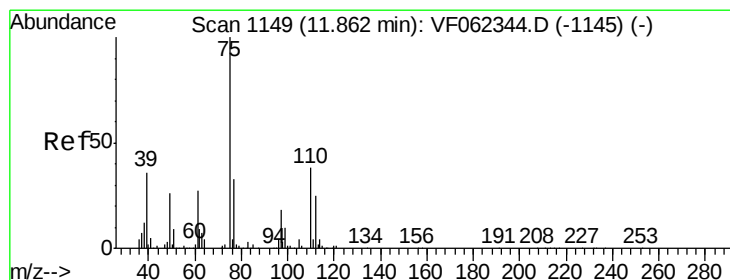
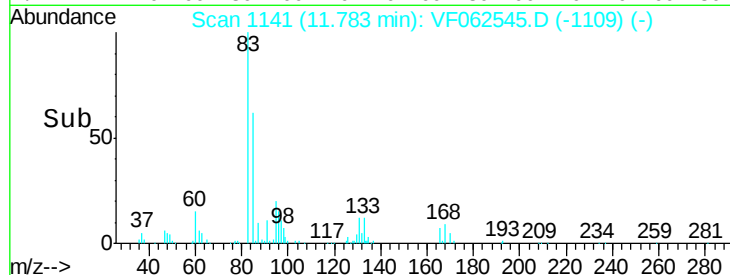
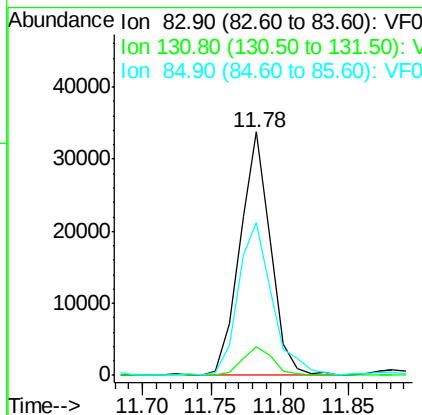
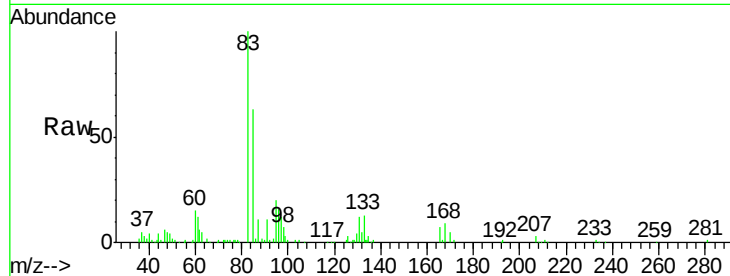
ClientSampleId :

VF0513SBS01

Tot Ion:	83	Resp:	52262
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.8	17.4
85	69.9	35.3	105.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.522 ug/l

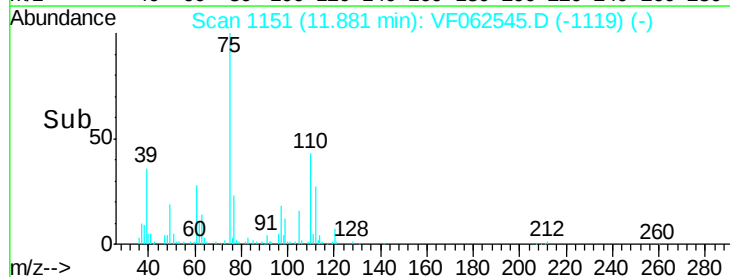
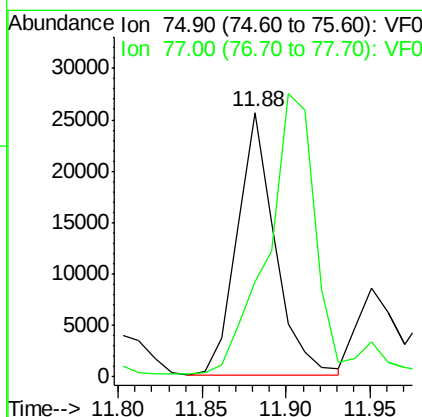
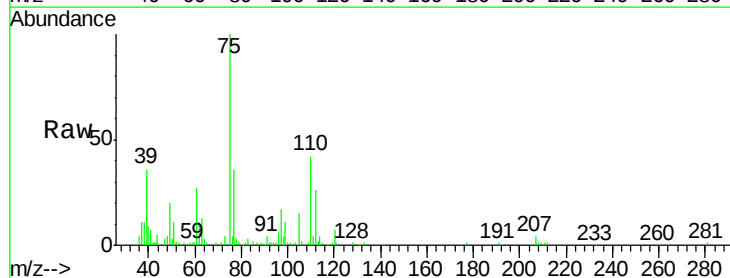
RT: 11.88 min Scan# 1151

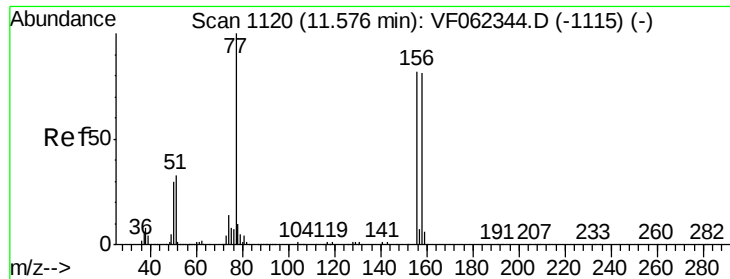
Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	75	Resp:	39704
Ion	Ratio	Lower	Upper
75	100		
77	135.3	0.0	0.0#





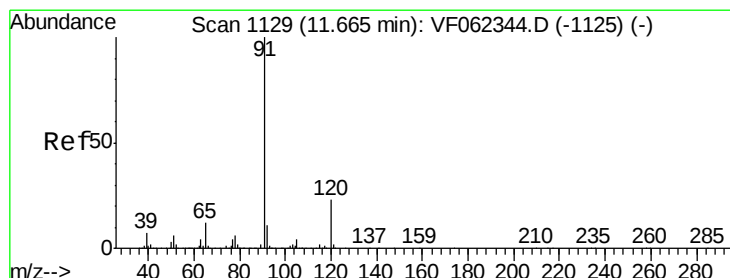
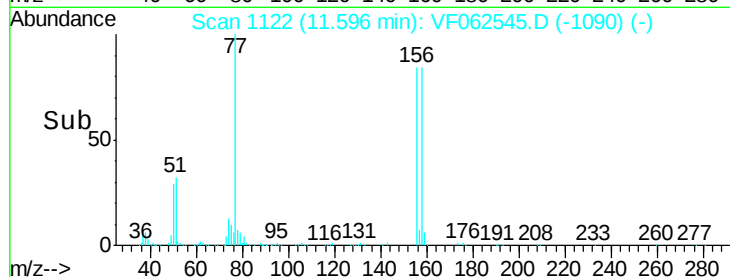
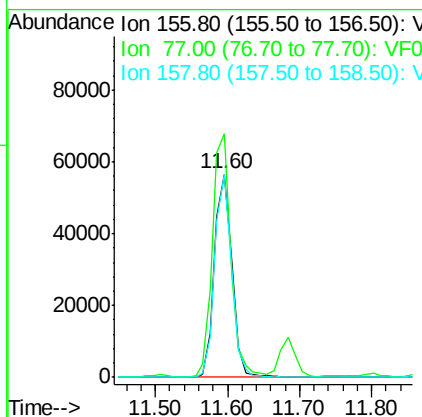
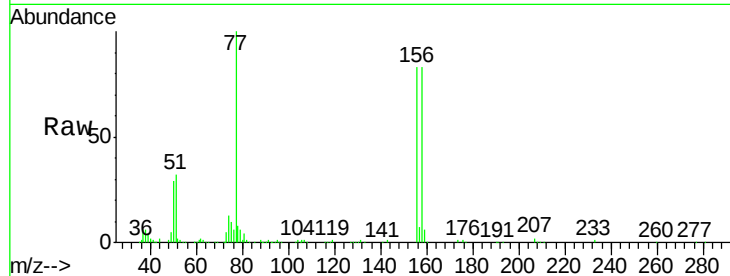
#77
Bromobenzene
Concen: 23.172 ug/l
RT: 11.60 min Scan# 1122
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	126.2	64.8	194.3
158	97.4	49.1	147.3

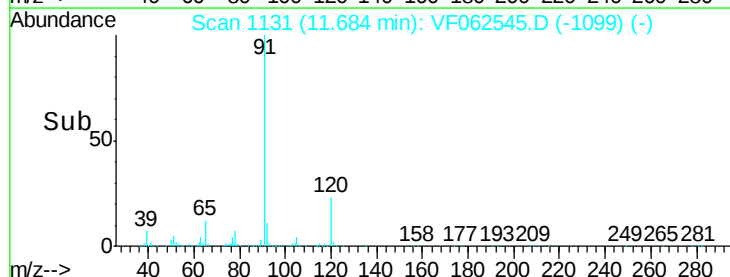
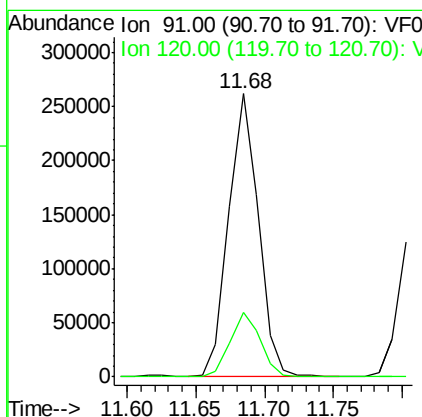
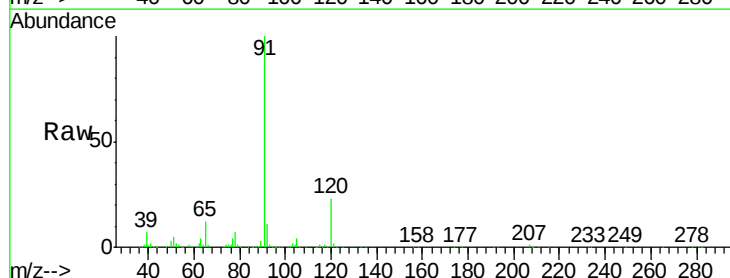
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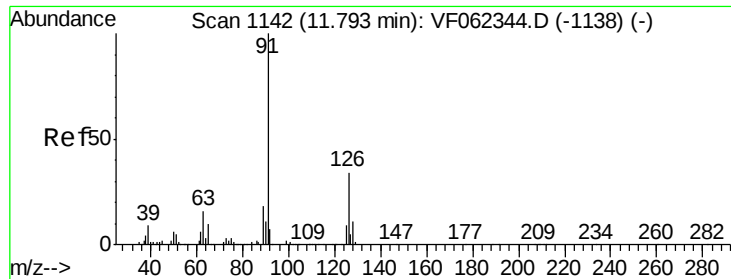
MMDadoda
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#78
n-propylbenzene
Concen: 23.965 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.9	35.5





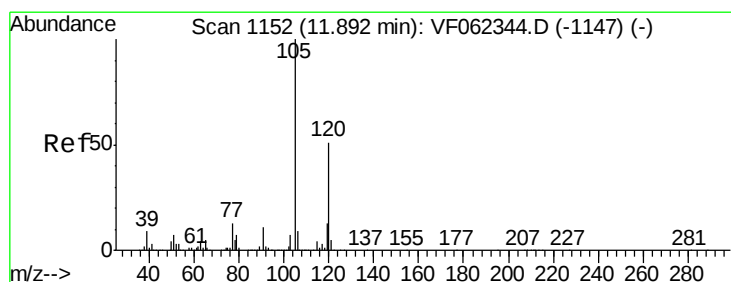
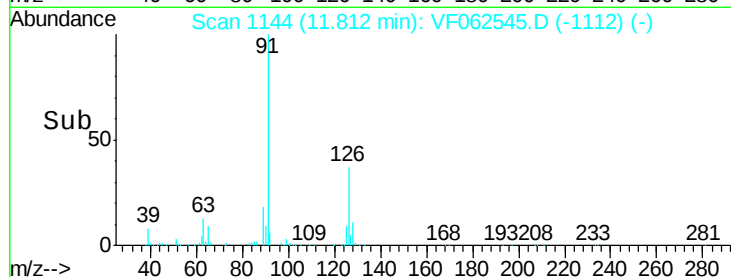
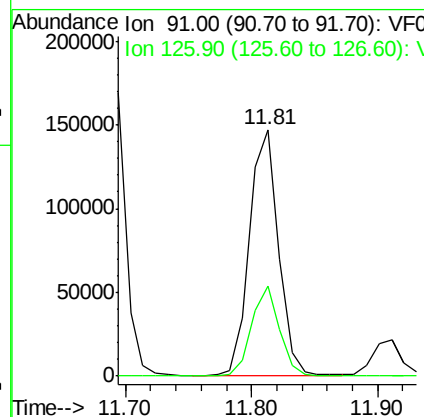
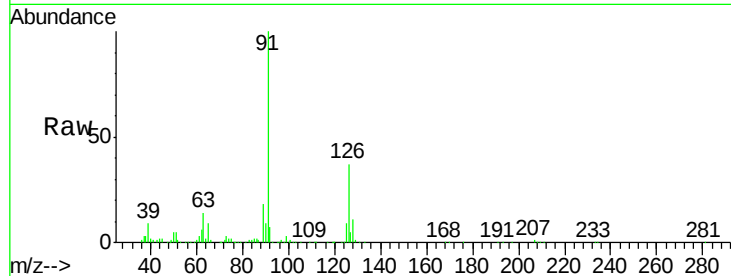
#79
 2-Chlorotoluene
 Concen: 22.779 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. 0.02 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Tot Ion: 91 Resp: 232887
 Ion Ratio Lower Upper
 91 100
 126 35.4 17.8 53.4

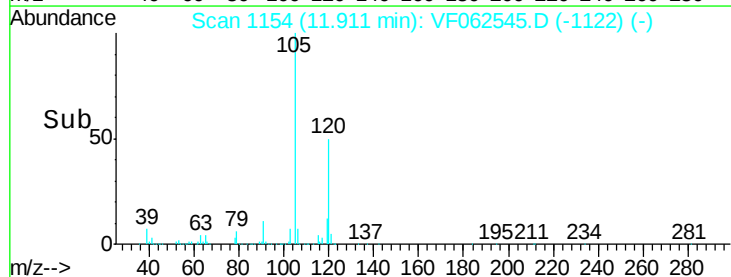
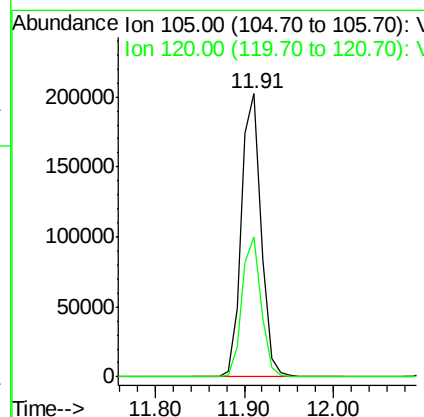
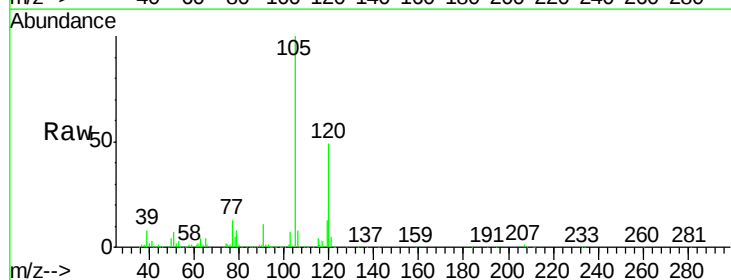
Manual Integrations
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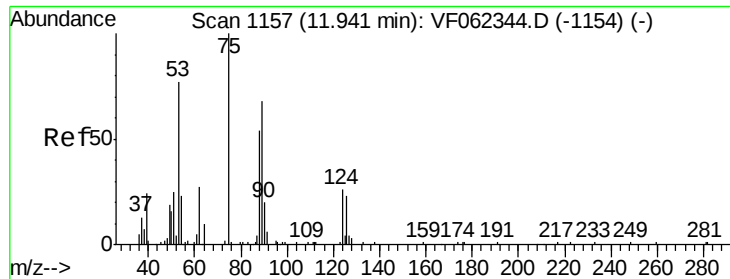
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 23.240 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion: 105 Resp: 314573
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.510 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

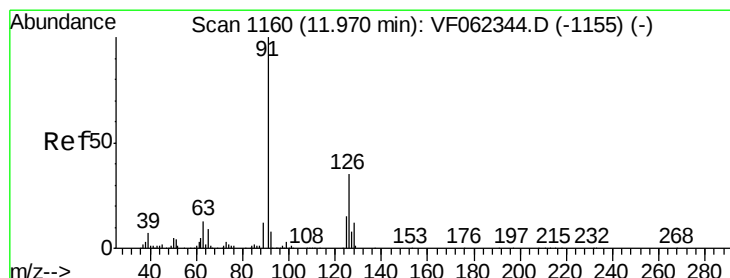
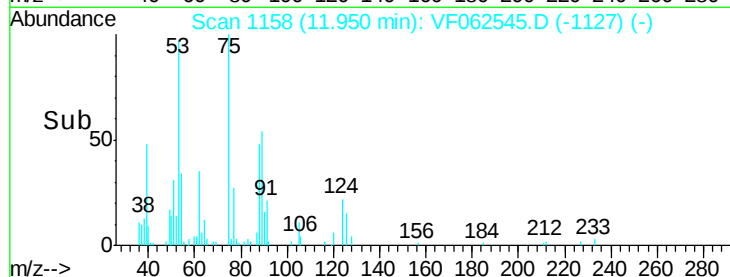
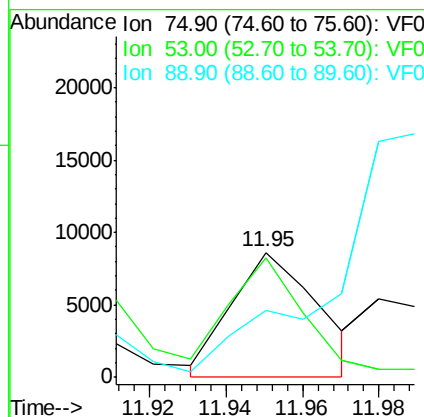
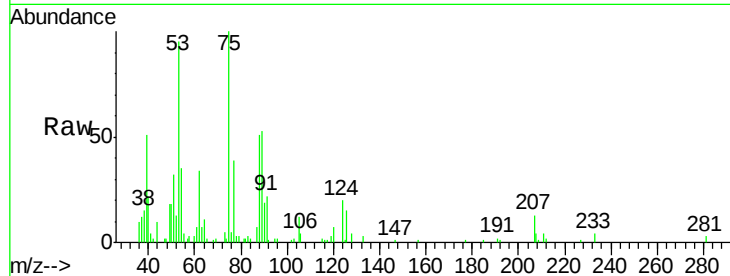
ClientSampleId :

VF0513SBS01

Tot Ion:	75	Resp:	13529
Ion Ratio	Lower	Upper	
75	100		
53	89.3	71.9	107.9
89	0.0	0.0	0.0

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#82

4-Chlorotoluene

Concen: 22.693 ug/l

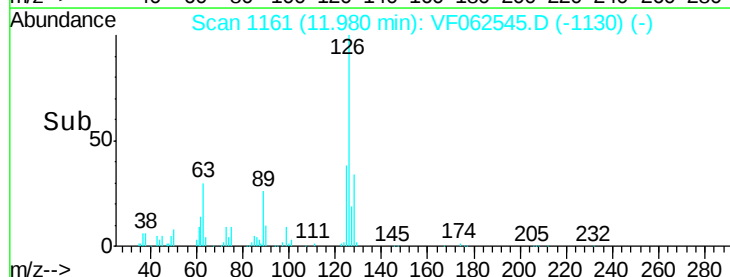
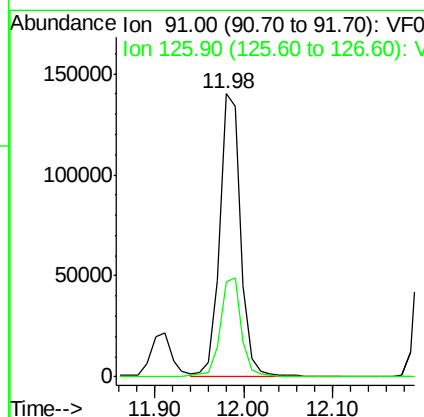
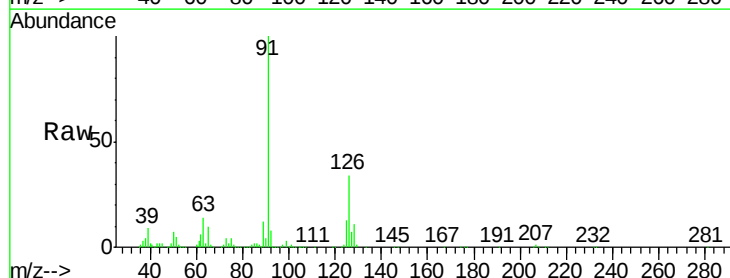
RT: 11.98 min Scan# 1161

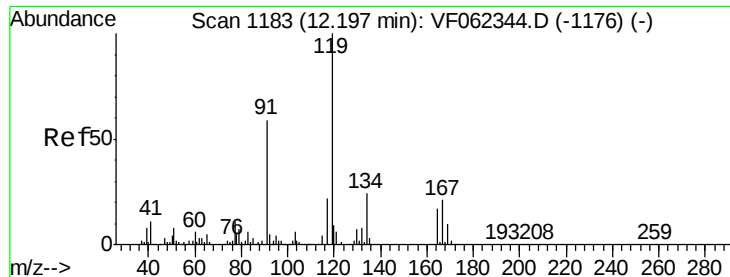
Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	91	Resp:	229143
Ion Ratio	Lower	Upper	
91	100		
126	36.2	17.7	53.1





#83

tert-Butylbenzene

Concen: 22.383 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

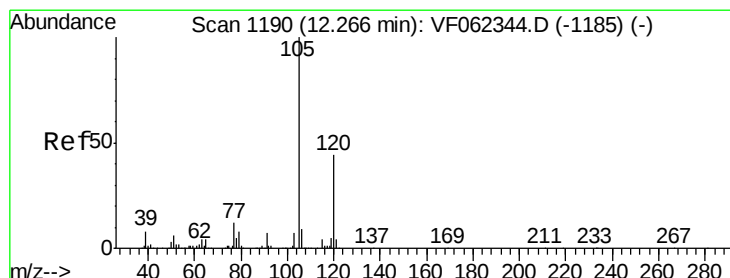
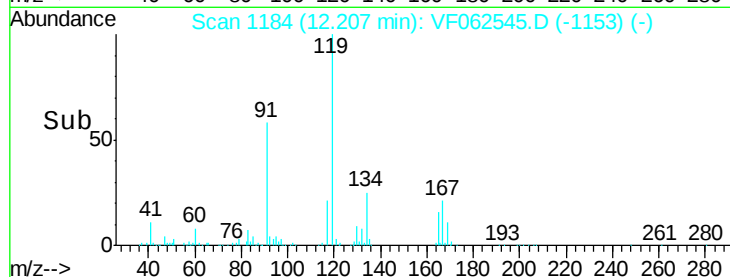
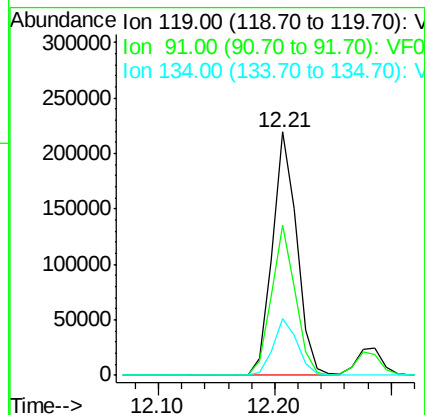
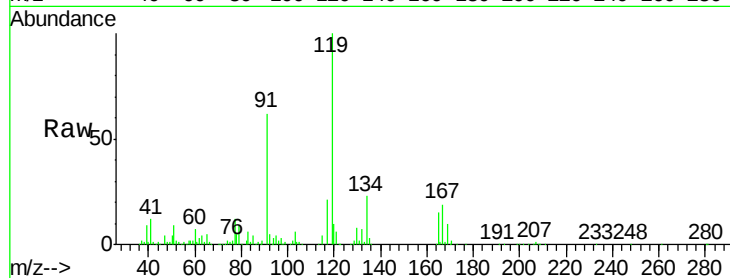
ClientSampleId :

VF0513SBS01

Tot Ion:	119	Resp:	318408
Ion Ratio	Lower	Upper	
119	100		
91	59.9	30.4	91.3
134	23.2	11.9	35.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 22.980 ug/l

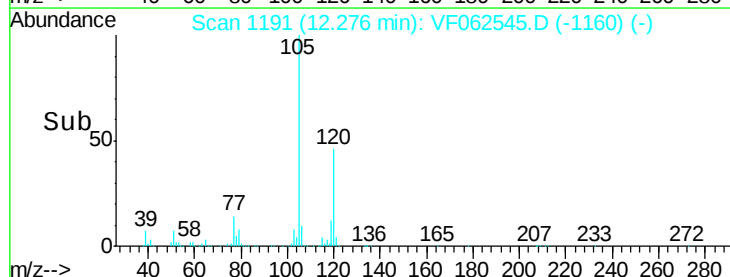
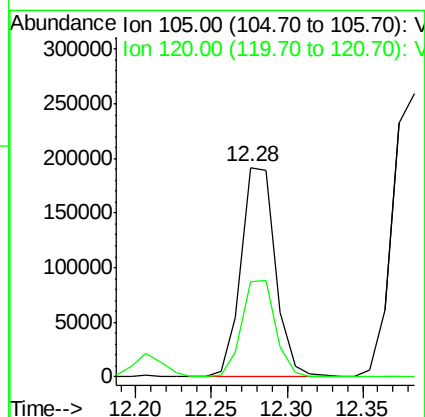
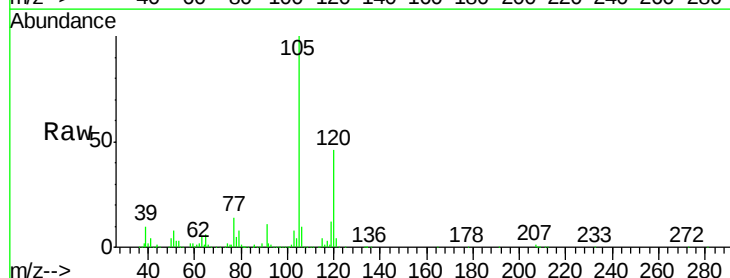
RT: 12.28 min Scan# 1191

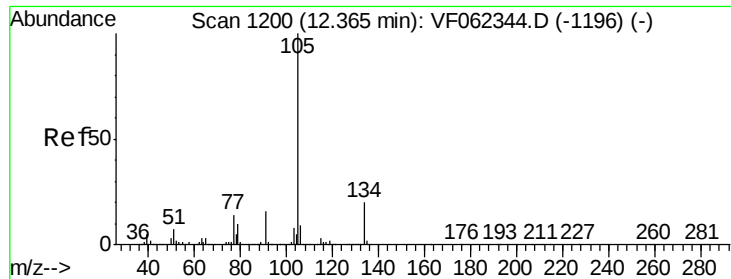
Delta R.T. 0.01 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Tgt Ion:	105	Resp:	304401
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.6	67.7





#85

sec-Butylbenzene

Concen: 22.859 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

Instrument :

MSVOA_F

ClientSampleId :

VF0513SBS01

Tot Ion:105 Resp: 395806

Ion Ratio Lower Upper

105 100

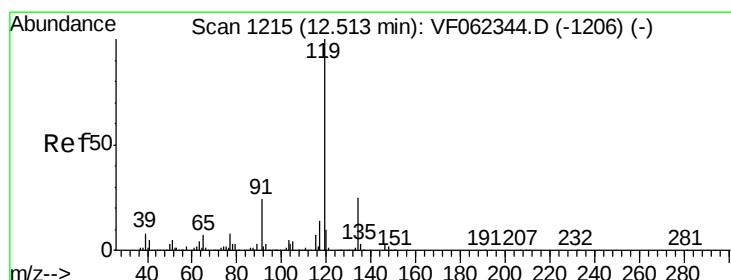
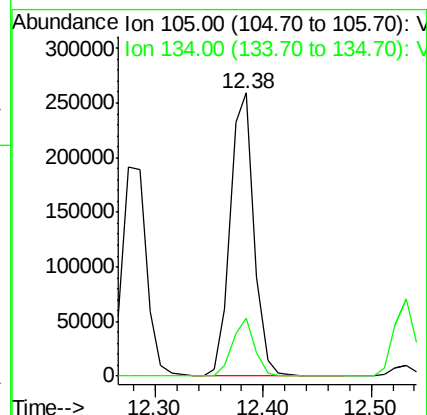
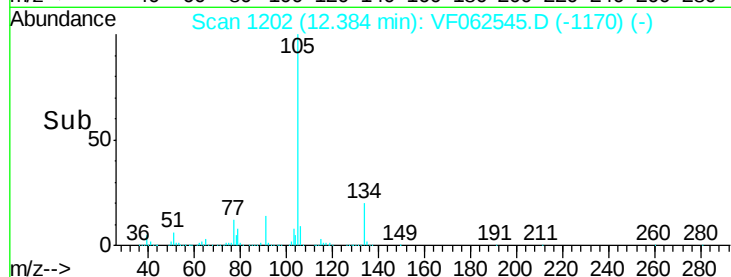
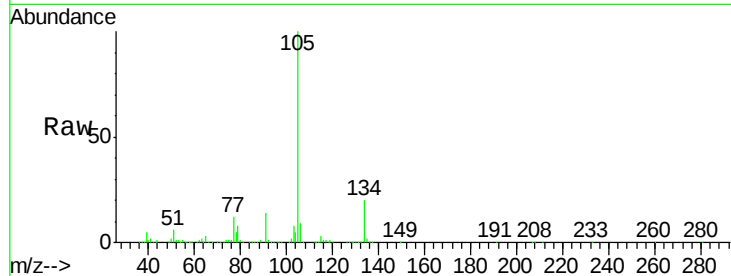
134 19.2 9.8 29.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 23.301 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062545.D

Acq: 13 May 2019 16:51

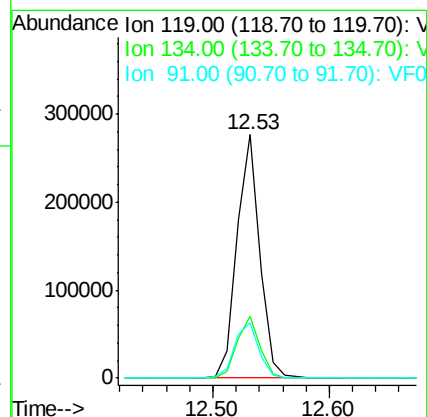
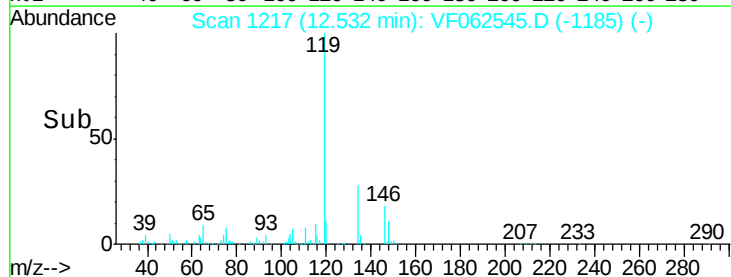
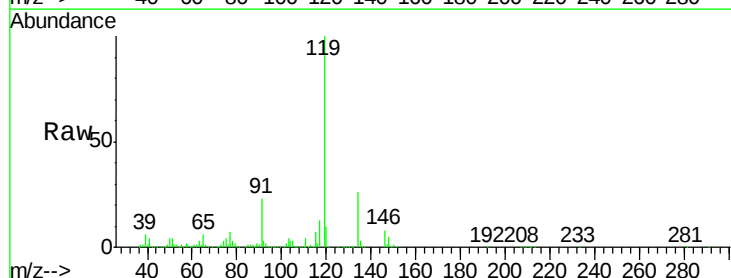
Tgt Ion:119 Resp: 374845

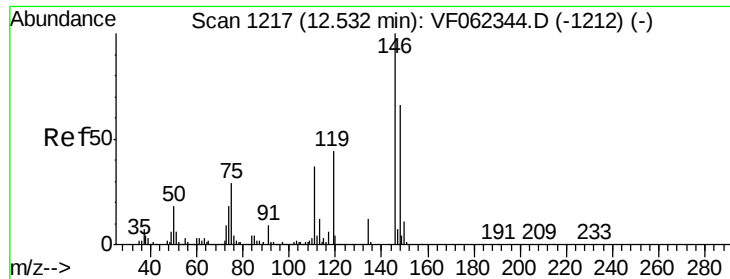
Ion Ratio Lower Upper

119 100

134 25.7 12.9 38.7

91 24.2 12.3 36.8





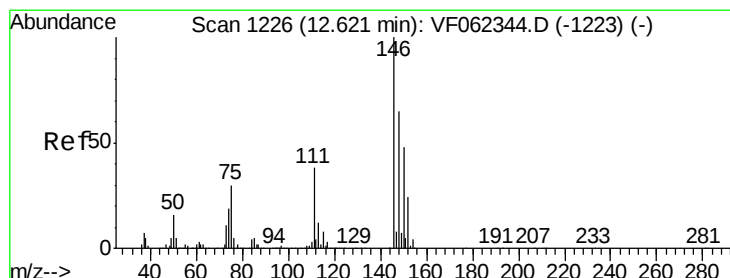
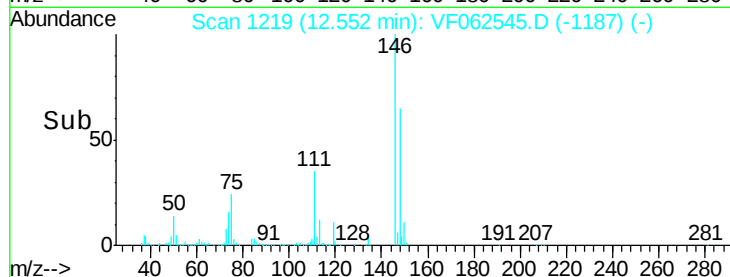
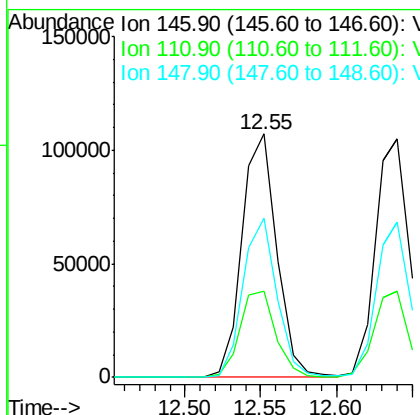
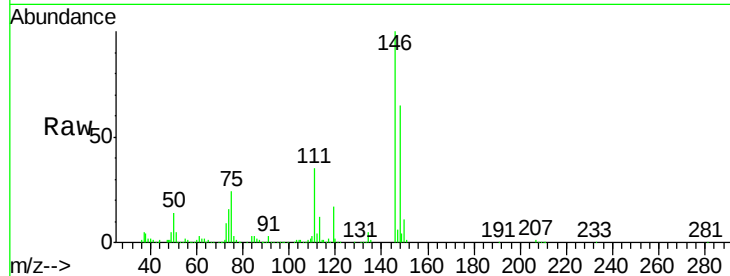
#87
 1,3-Dichlorobenzene
 Concen: 23.167 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.3	54.8
148	64.2	32.3	96.9

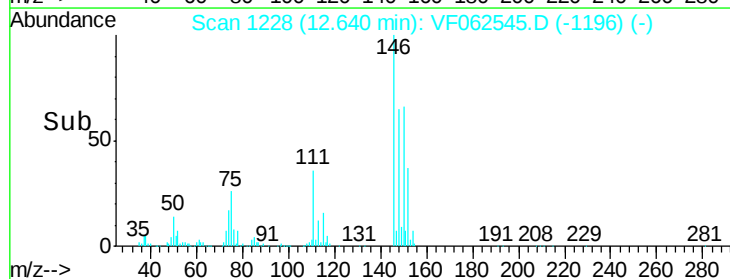
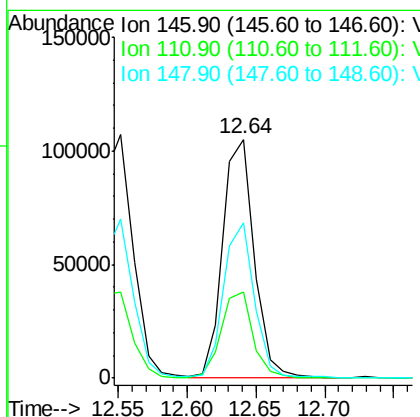
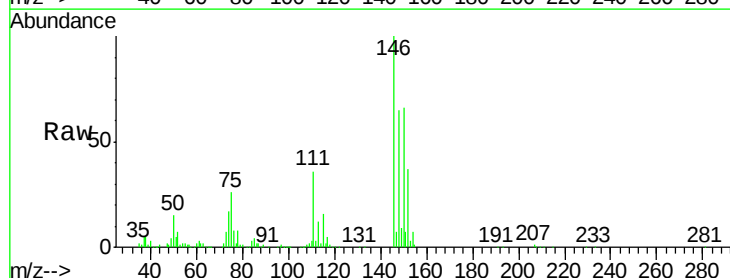
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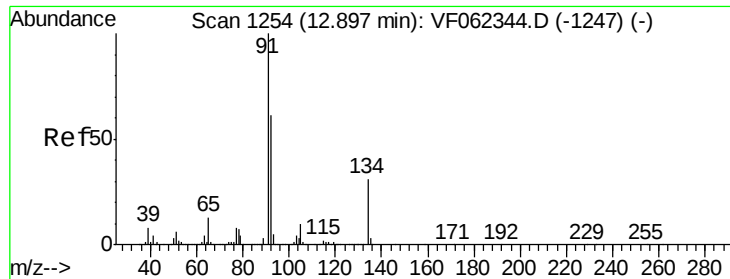
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#88
 1,4-Dichlorobenzene
 Concen: 23.261 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.02 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.8	56.3
148	64.1	32.2	96.6





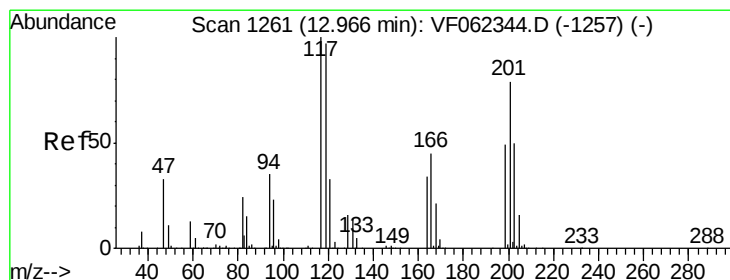
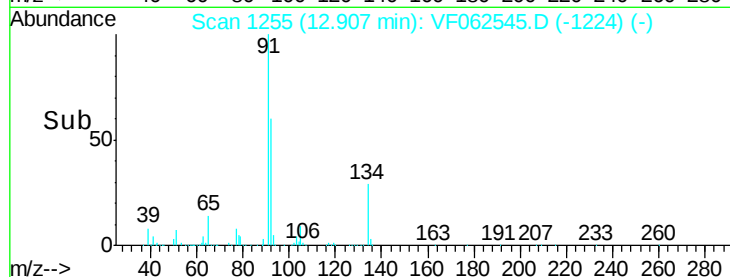
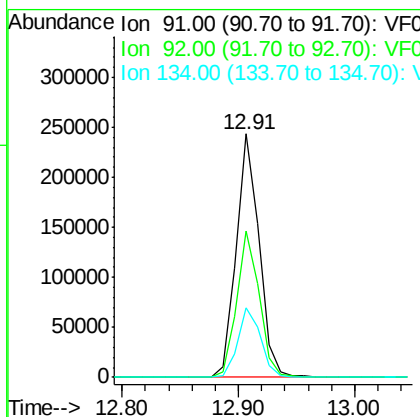
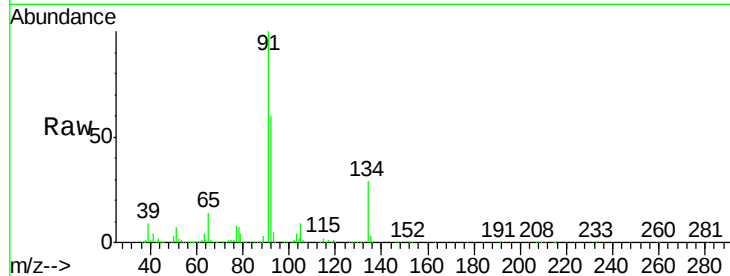
#89
n-Butylbenzene
Concen: 23.094 ug/l
RT: 12.91 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	330530		
92	59.3		30.0	90.0
134	29.1		14.1	42.4

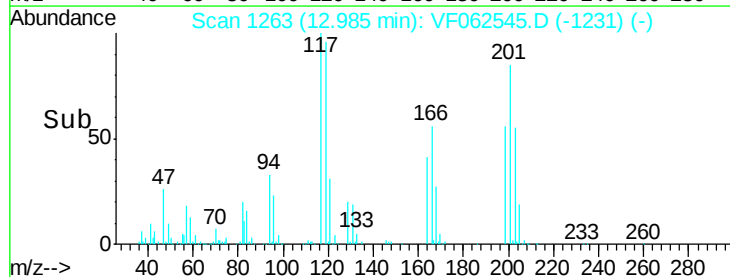
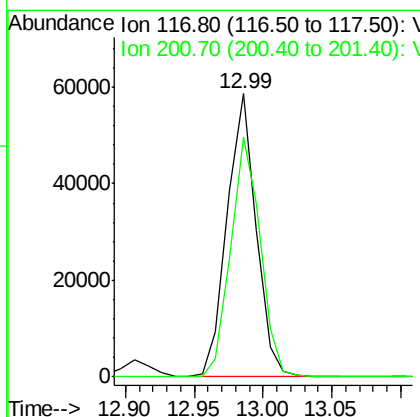
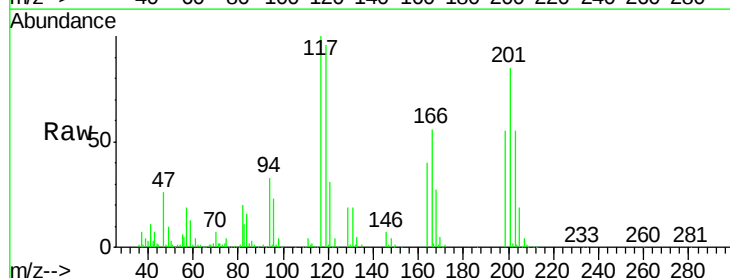
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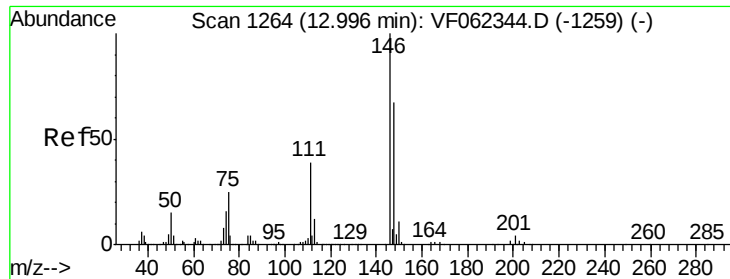
MMDadoda
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#90
Hexachloroethane
Concen: 21.407 ug/l
RT: 12.99 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	85986		
201	86.7		46.2	138.5





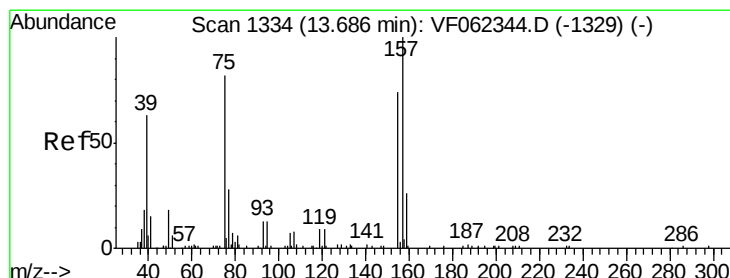
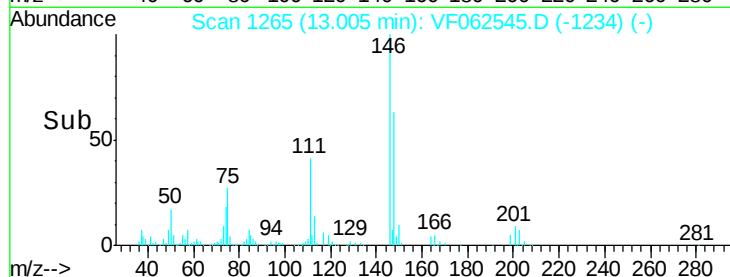
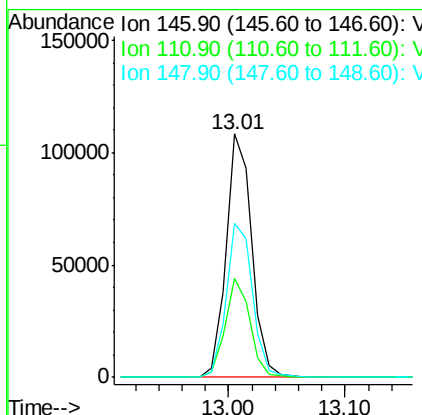
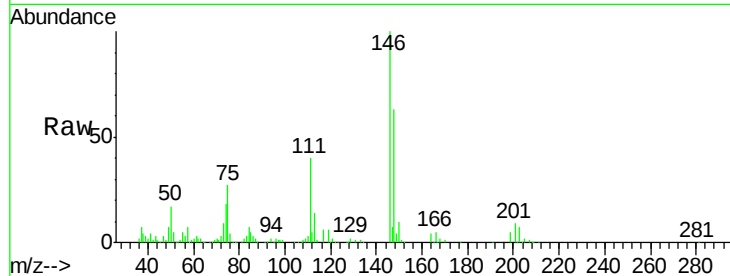
#91
 1,2-Dichlorobenzene
 Concen: 23.069 ug/l
 RT: 13.01 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	165279		
111	39.4		20.0	60.0
148	65.0		33.1	99.5

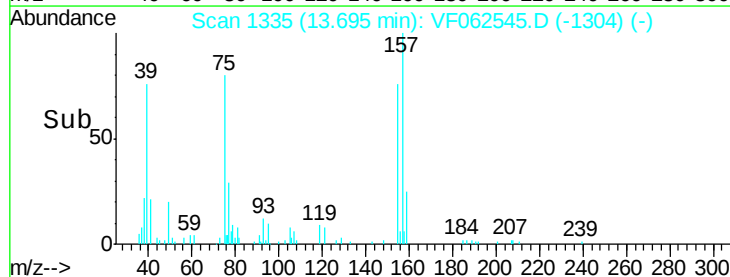
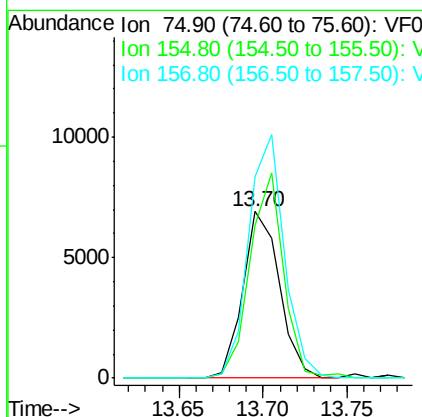
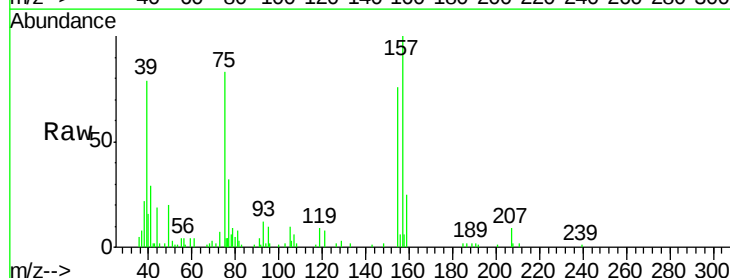
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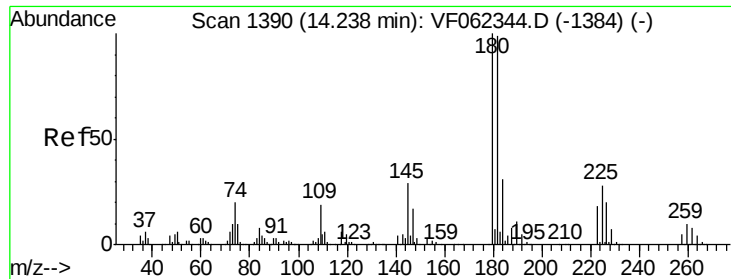
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 5/14/2019 11:21:25 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.280 ug/l
 RT: 13.70 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	10444		
155	113.3		51.8	155.4
157	142.6		67.3	201.8





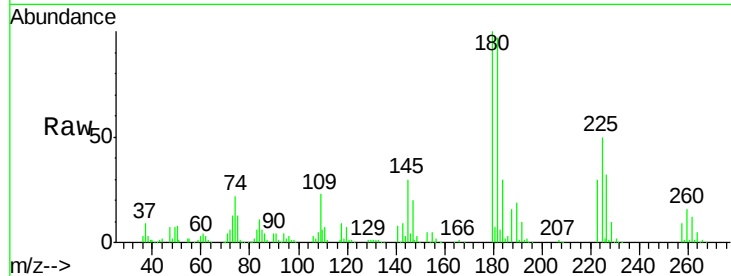
#93
 1,2,4-Trichlorobenzene
 Concen: 22.468 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0513SBS01

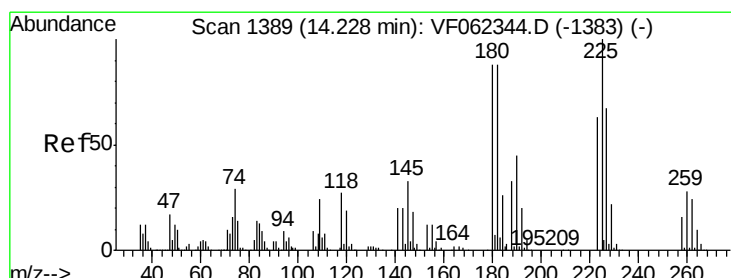
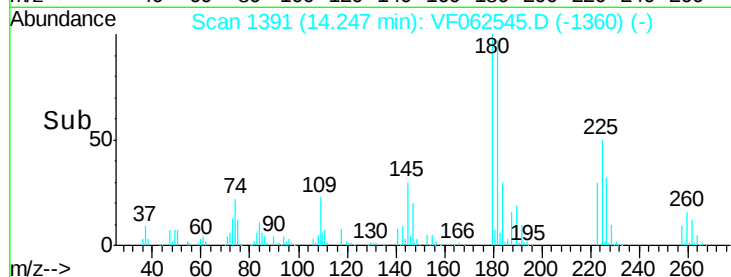
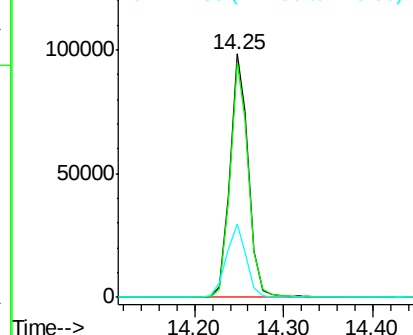
Tot Ion	Ratio	Resp	Lower	Upper
180	100	144390		
182	96.0	49.0	147.0	
145	32.7	16.7	50.1	

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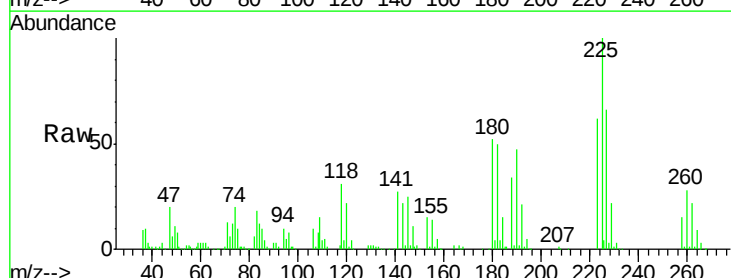


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

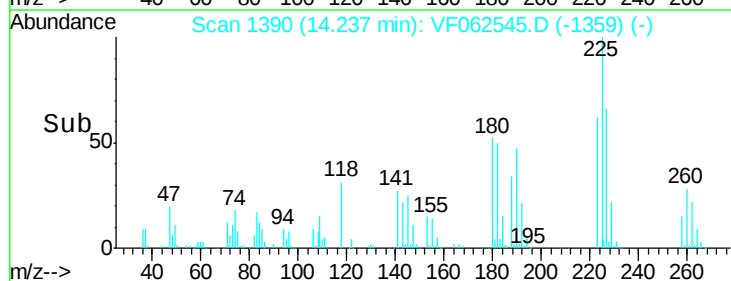
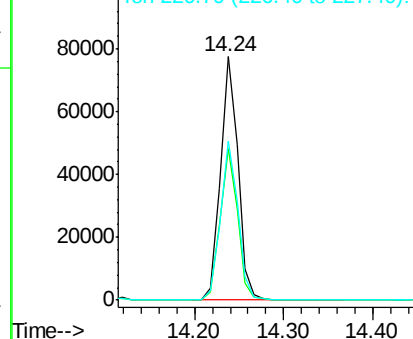


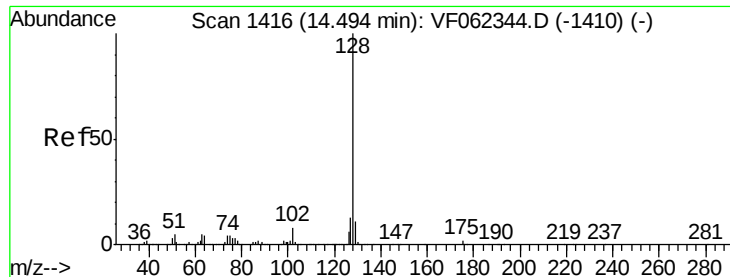
#94
 Hexachlorobutadiene
 Concen: 22.236 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062545.D
 Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	106507		
223	62.1	31.9	95.5	
227	65.3	33.1	99.5	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





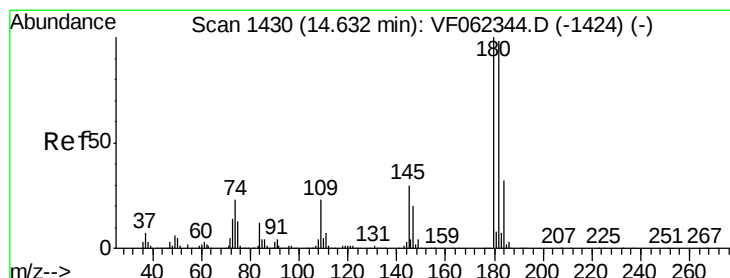
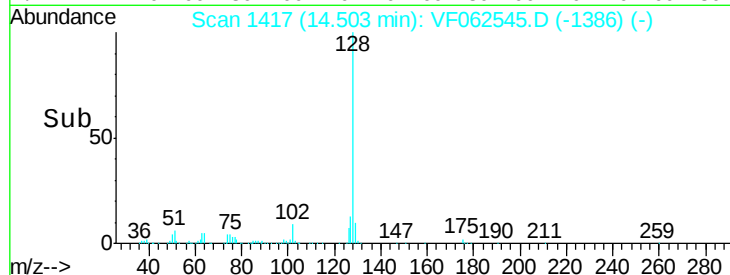
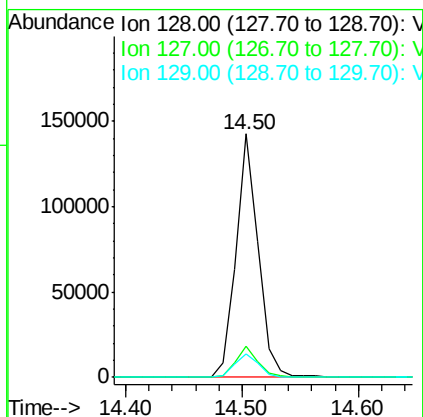
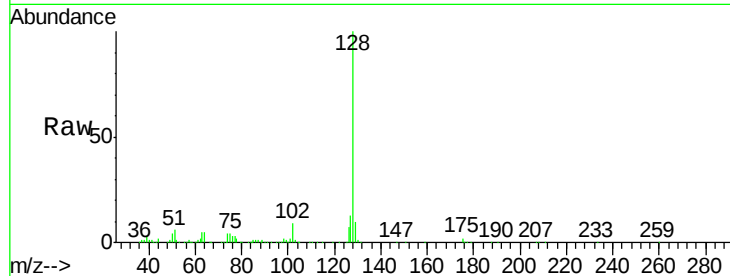
#95
Naphthalene
Concen: 19.506 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Instrument :
MSVOA_F
ClientSampleId :
VF0513SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	188454		
127	13.2	10.5	15.7	
129	10.5	8.6	12.8	

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#96
1,2,3-Trichlorobenzene
Concen: 22.190 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062545.D
Acq: 13 May 2019 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	138155		
182	94.7	49.4	148.0	
145	27.9	14.8	44.3	

