

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051619\
 Data File : VF062622.D
 Acq On : 16 May 2019 12:28
 Operator : FY/SY
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 5/17/2019 4:20:13 PM

Quant Time: May 17 05:16:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:56:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	760837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1321532	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	979745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	483656	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	345566	64.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.54%	
35) Dibromofluoromethane	4.32	113	634838	62.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.56%	
50) Toluene-d8	7.72	98	1499445	62.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.20%	
62) 4-Bromofluorobenzene	11.50	95	573500	62.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	659598	63.706	ug/l	97
3) Chloromethane	1.16	50	632941	66.390	ug/l	94
4) Vinyl Chloride	1.19	62	590886	67.333	ug/l	100
5) Bromomethane	1.40	94	308762	64.314	ug/l	98
6) Chloroethane	1.45	64	216205	67.082	ug/l	93
7) Trichlorofluoromethane	1.56	101	813980	73.323	ug/l #	80
8) Diethyl Ether	1.72	74	163702	70.128	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.90	101	498805m	66.481	ug/l	
10) Methyl Iodide	1.99	142	966219	65.556	ug/l	99
11) Tert butyl alcohol	2.70	59	118096	332.704	ug/l	99
12) 1,1-Dichloroethene	1.87	96	459192	67.184	ug/l	82
13) Acrolein	2.10	56	134958	364.234	ug/l	97
14) Allyl chloride	2.20	41	466607m	69.483	ug/l	
15) Acrylonitrile	3.10	53	307587	307.196	ug/l	95
16) Acetone	2.36	43	503412	360.914	ug/l	96
17) Carbon Disulfide	1.93	76	1404612	72.124	ug/l	97
18) Methyl Acetate	2.47	43	145255	60.937	ug/l	93
19) Methyl tert-butyl Ether	2.55	73	851972	69.729	ug/l	98
20) Methylene Chloride	2.35	84	440925m	63.434	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	468886	70.188	ug/l	91
22) Diisopropyl ether	2.95	45	1001301	65.630	ug/l	97
23) Vinyl Acetate	3.35	43	3298695	320.517	ug/l	99
24) 1,1-Dichloroethane	3.02	63	754191	67.385	ug/l	98
25) 2-Butanone	4.54	43	973823	326.782	ug/l	97
26) 2,2-Dichloropropane	3.79	77	424357	66.266	ug/l	91
27) cis-1,2-Dichloroethene	3.66	96	717436	65.288	ug/l	99
28) Bromochloromethane	3.92	49	429280	68.387	ug/l	94
29) Tetrahydrofuran	4.28	42	392756	325.691	ug/l	97
30) Chloroform	4.06	83	1024401	65.922	ug/l	98
31) Cyclohexane	3.90	56	1005564	72.166	ug/l	97
32) 1,1,1-Trichloroethane	4.30	97	713525	69.139	ug/l	95
36) 1,1-Dichloropropene	4.49	75	848215	62.638	ug/l	99
37) Ethyl Acetate	4.31	43	330921	59.851	ug/l	96
38) Carbon Tetrachloride	4.20	117	689824	72.304	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	996382	61.150	ug/l	93
40) Benzene	4.83	78	2273547	61.629	ug/l	100
41) Methacrylonitrile	4.94	41	176808	60.995	ug/l	89
42) 1,2-Dichloroethane	5.14	62	477722	64.937	ug/l	97
43) Isopropyl Acetate	7.12	43	429186	59.916	ug/l #	96
44) Trichloroethene	5.70	130	626639	60.437	ug/l	93
45) 1,2-Dichloropropane	6.42	63	584318	62.745	ug/l	99
46) Dibromomethane	6.27	93	332779	61.832	ug/l	95
47) Bromodichloromethane	6.57	83	697509	62.428	ug/l	96
48) Methyl methacrylate	6.88	41	227510	60.766	ug/l	94
49) 1,4-Dioxane	6.88	88	59510	1240.998	ug/l	97
51) 4-Methyl-2-Pentanone	8.41	43	1447006	295.533	ug/l	99
52) Toluene	7.79	92	1207878	62.431	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	595432	65.139	ug/l	95
54) cis-1,3-Dichloropropene	7.47	75	817098	63.857	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	362626	63.302	ug/l	98
56) Ethyl methacrylate	8.76	69	408630	59.874	ug/l	100
57) 1,3-Dichloropropane	9.00	76	600586	61.552	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.45	63	751124	338.120	ug/l	100
59) 2-Hexanone	9.63	43	1038737	290.161	ug/l	96
60) Dibromochloromethane	8.86	129	490279	65.668	ug/l	97
61) 1,2-Dibromoethane	9.14	107	400841	65.879	ug/l	98
64) Tetrachloroethene	8.31	164	504033	64.938	ug/l	97
65) Chlorobenzene	9.94	112	1247971	64.853	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	502093	64.995	ug/l	97
67) Ethyl Benzene	10.04	91	2092251	62.587	ug/l	99
68) m/p-Xylenes	10.26	106	1577223	125.532	ug/l	98
69) o-Xylene	10.83	106	878172	67.858	ug/l	93
70) Styrene	10.89	104	1305588	66.374	ug/l	99
71) Bromoform	10.88	173	281022	72.634	ug/l #	99
73) Isopropylbenzene	11.22	105	2193637	63.282	ug/l	98
74) N-amyl acetate	11.46	43	591788	55.338	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.77	83	450072	63.532	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	297162	63.841	ug/l	87
77) Bromobenzene	11.58	156	571659	66.345	ug/l	96
78) n-propylbenzene	11.67	91	2563792	62.495	ug/l	97
79) 2-Chlorotoluene	11.80	91	1499815	64.871	ug/l	97
80) 1,3,5-Trimethylbenzene	11.90	105	1759132	63.288	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	140838m	54.459	ug/l	
82) 4-Chlorotoluene	11.98	91	1479862	64.909	ug/l	100
83) tert-Butylbenzene	12.21	119	1802115	63.905	ug/l	100
84) 1,2,4-Trimethylbenzene	12.27	105	1674518	62.244	ug/l	97
85) sec-Butylbenzene	12.37	105	2391495	63.192	ug/l	97
86) p-Isopropyltoluene	12.52	119	1990760	62.418	ug/l	96
87) 1,3-Dichlorobenzene	12.54	146	964135	61.847	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	926003	63.299	ug/l	98
89) n-Butylbenzene	12.90	91	1932371	61.451	ug/l	98
90) Hexachloroethane	12.97	117	527994	69.010	ug/l	93
91) 1,2-Dichlorobenzene	13.00	146	899616	64.739	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	58813	69.592	ug/l	99

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ClientSampleId :
VSTDICC075

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Fri May 17 04:56:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	622113	62.545	ug/l	95
94) Hexachlorobutadiene	14.24	225	461944	66.548	ug/l	95
95) Naphthalene	14.49	128	1174530	64.998	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	668382	70.941	ug/l	97

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

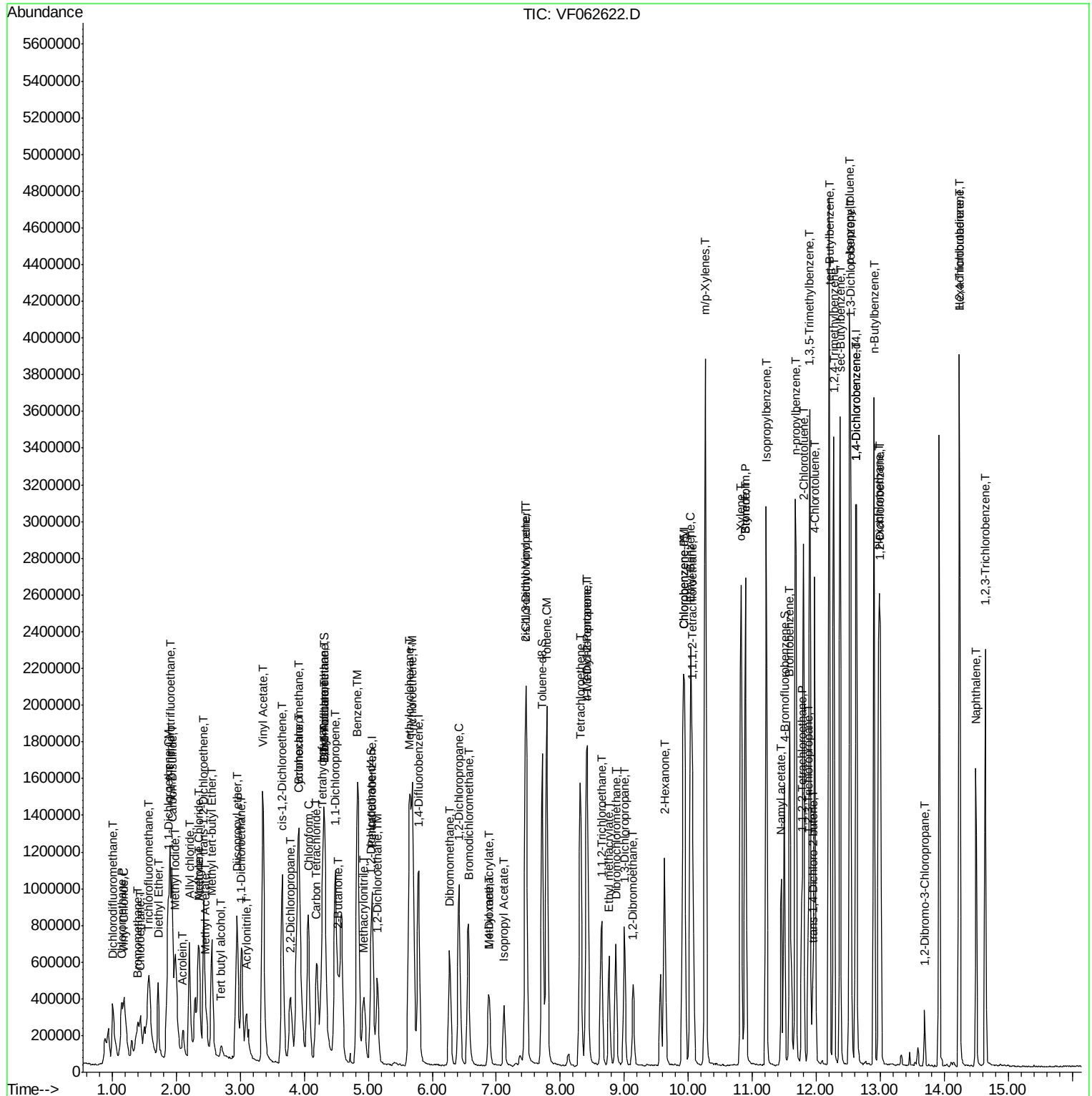
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051619\
 Data File : VF062622.D
 Acq On : 16 May 2019 12:28
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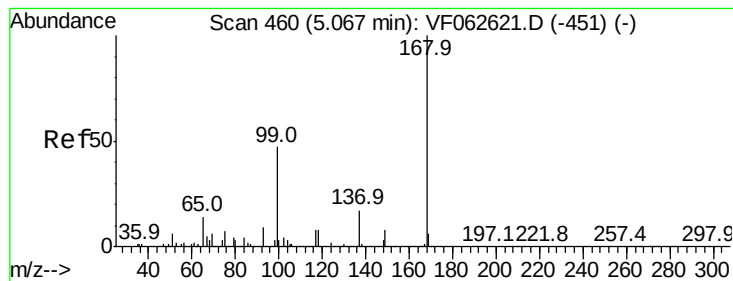
Instrument :
 MSVOA_F
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 760837

Ion Ratio Lower Upper

168 100

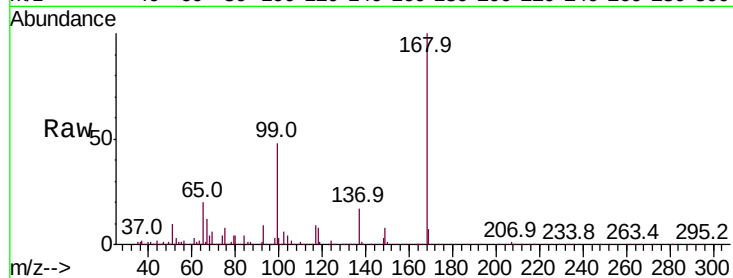
99 48.1 37.8 56.8

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

250000

200000

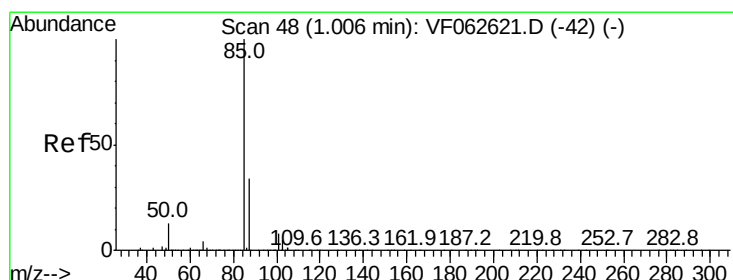
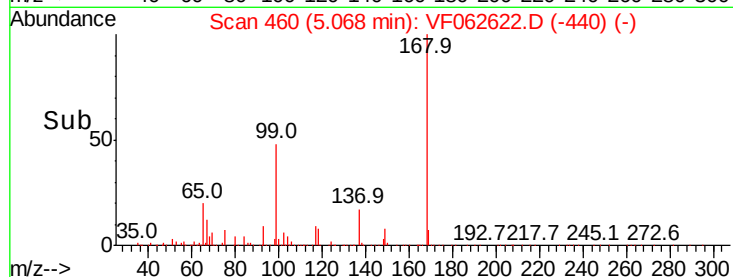
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 63.706 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062622.D

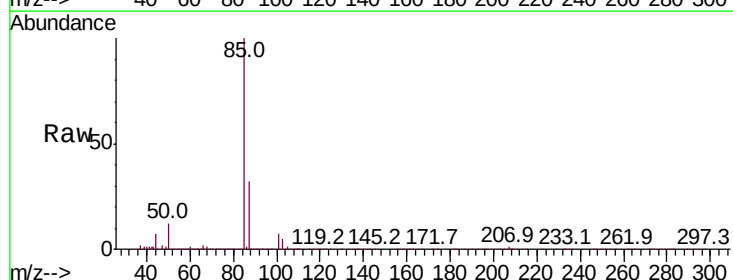
Acq: 16 May 2019 12:28

Tgt Ion: 85 Resp: 659598

Ion Ratio Lower Upper

85 100

87 31.7 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

200000

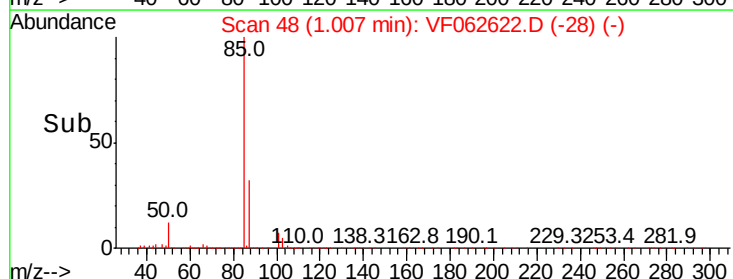
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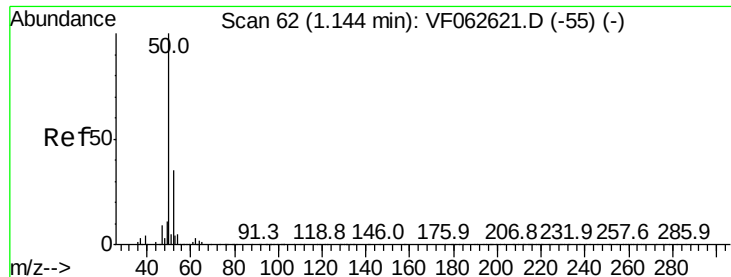
100000

50000

0

Time-->





#3

Chloromethane

Concen: 66.390 ug/l

RT: 1.16 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 632941

Ion Ratio Lower Upper

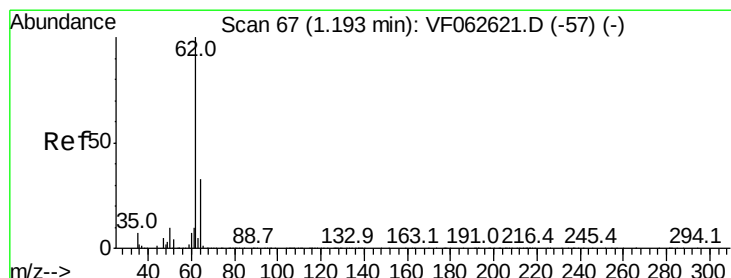
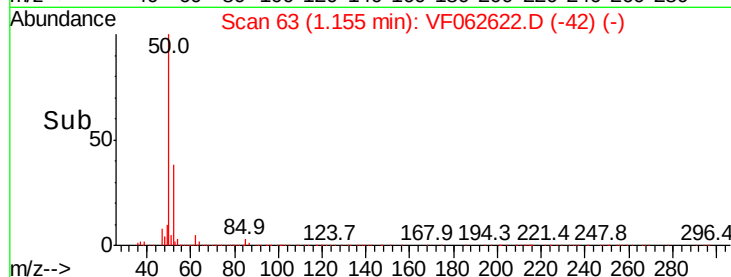
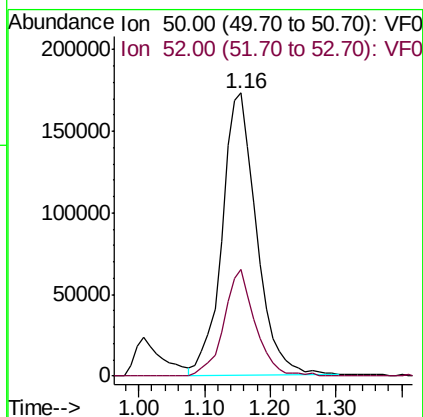
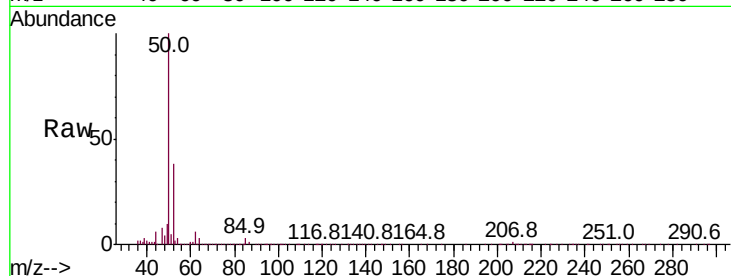
50 100

52 37.7 27.5 41.3

Manual Integrations
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5/17/2019 4:20:13 PM



#4

Vinyl Chloride

Concen: 67.333 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062622.D

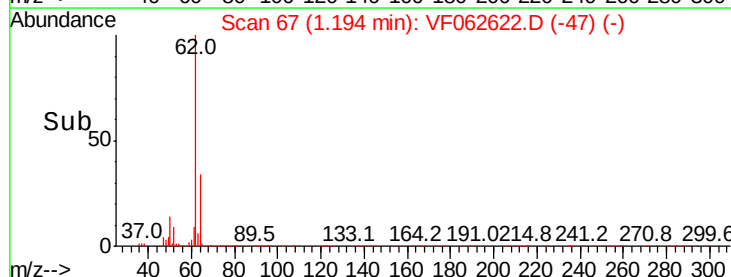
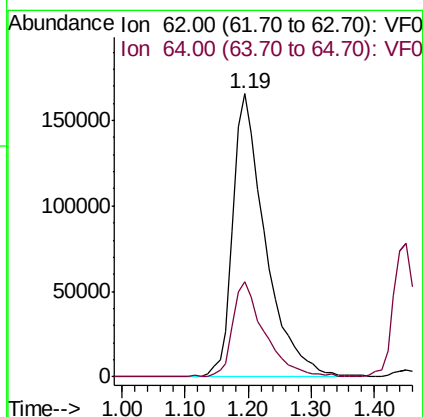
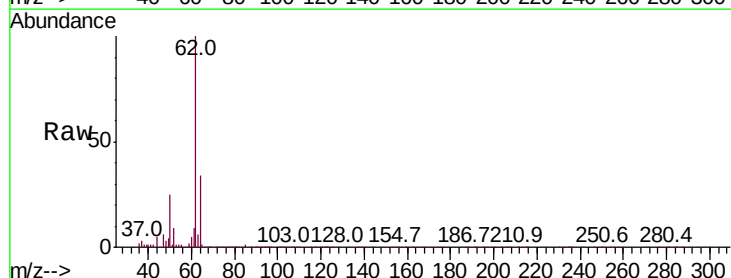
Acq: 16 May 2019 12:28

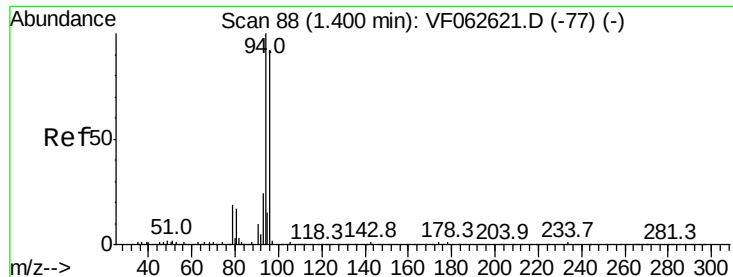
Tgt Ion: 62 Resp: 590886

Ion Ratio Lower Upper

62 100

64 33.6 26.7 40.1





#5

Bromomethane

Concen: 64.314 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 308762

Ion Ratio Lower Upper

94 100

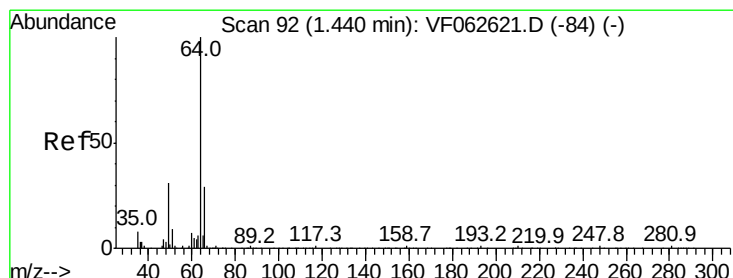
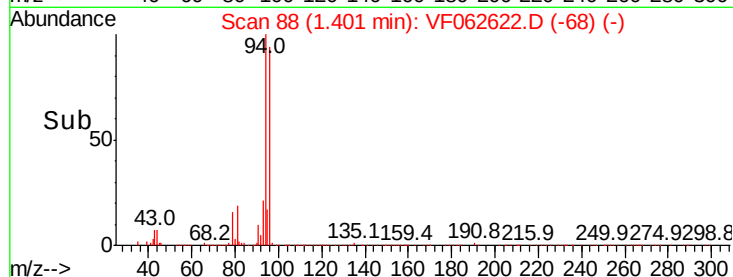
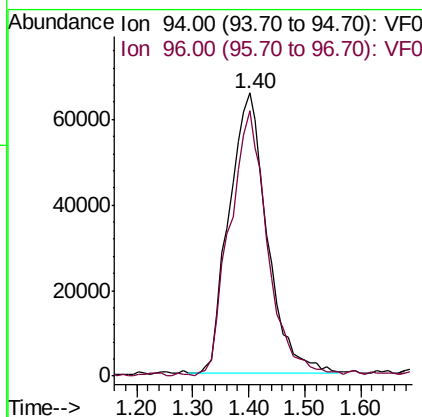
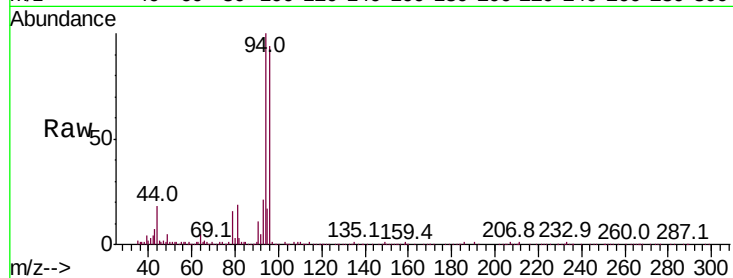
96 93.7 73.2 109.8

Manual Integrations

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#6

Chloroethane

Concen: 67.082 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF062622.D

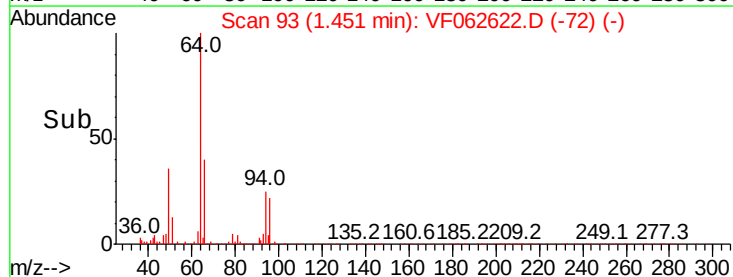
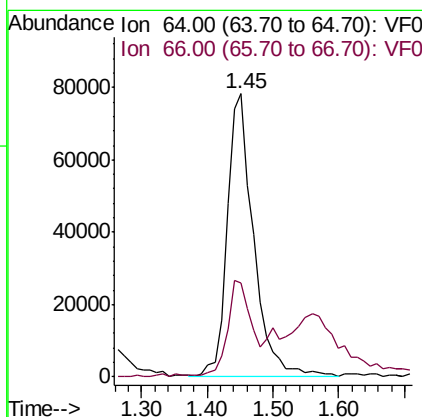
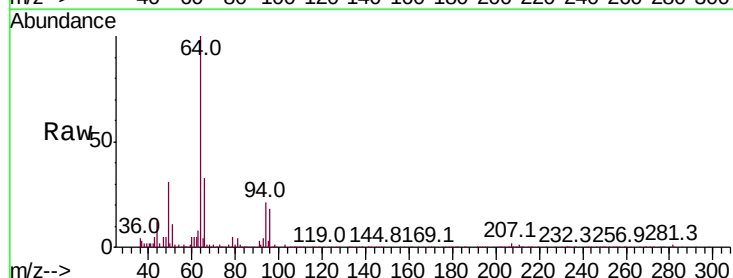
Acq: 16 May 2019 12:28

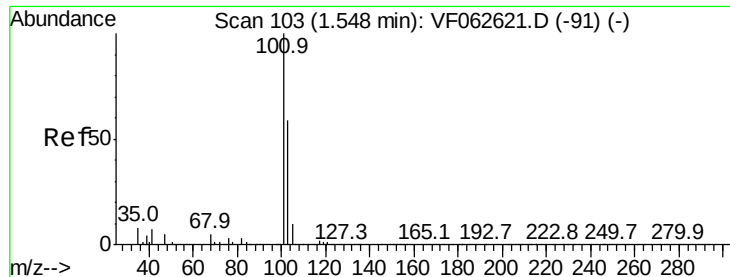
Tgt Ion: 64 Resp: 216205

Ion Ratio Lower Upper

64 100

66 33.2 23.4 35.2





#7

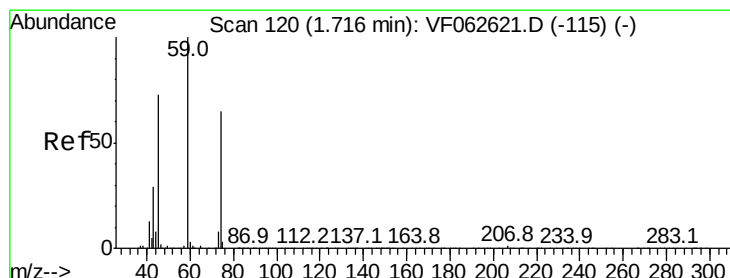
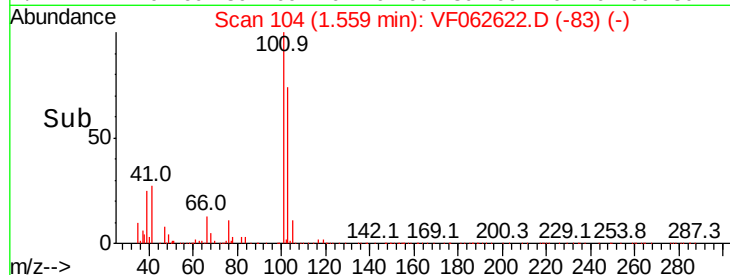
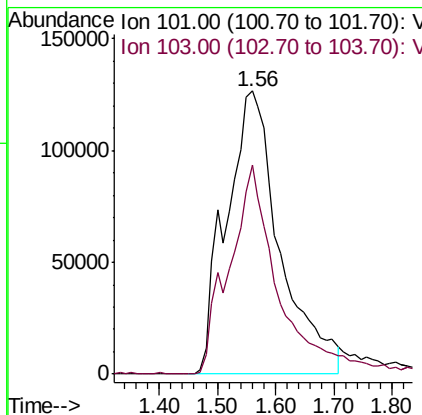
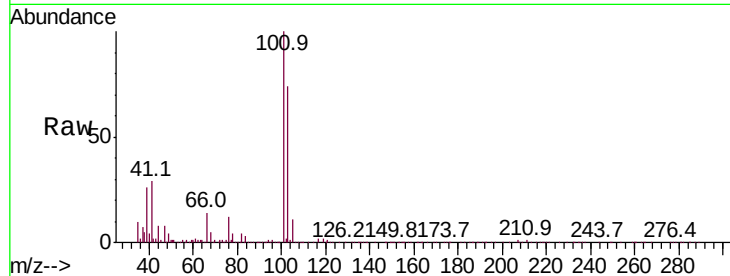
Trichlorofluoromethane
Concen: 73.323 ug/l
RT: 1.56 min Scan# 104
Delta R.T. 0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
101	100		
103	74.1	47.3	70.9#

Manual Integrations
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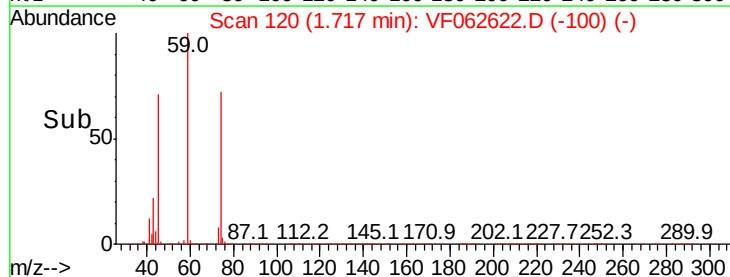
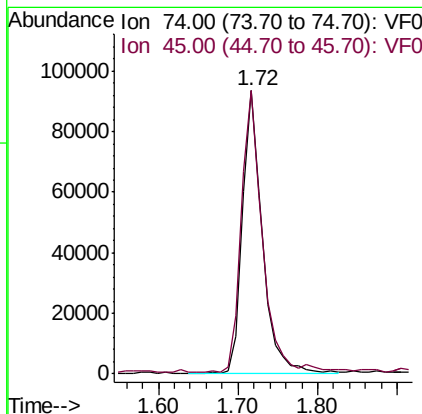
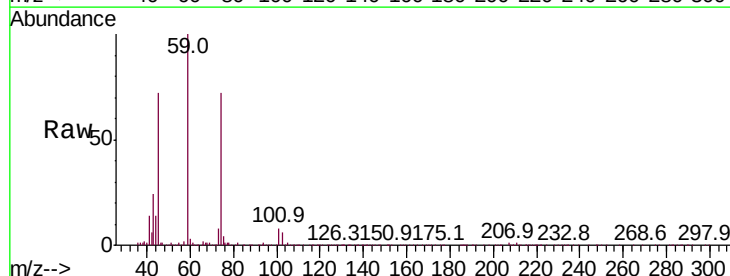
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5/17/2019 4:20:13 PM

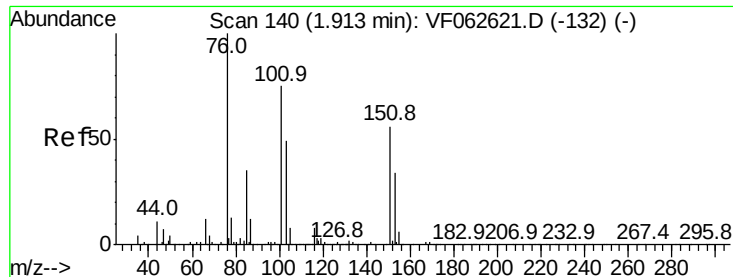


#8

Diethyl Ether
Concen: 70.128 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.9	57.0	170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 66.481 ug/l m

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

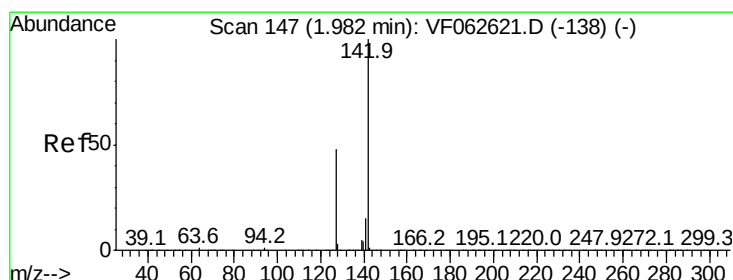
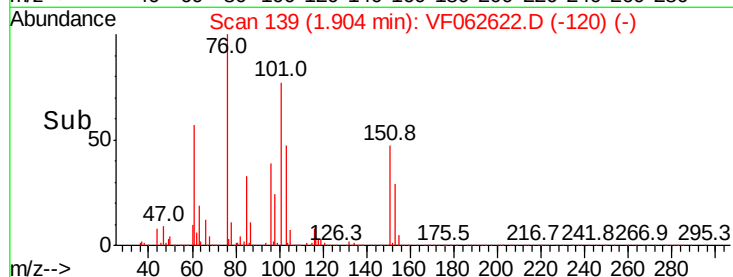
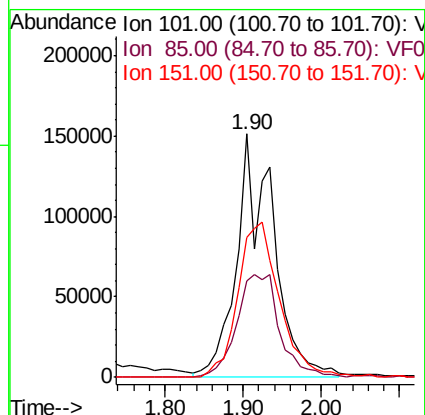
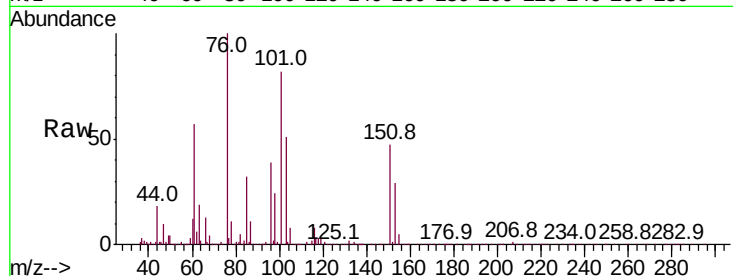
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	498805
Ion Ratio	Lower	Upper	
101	100		
85	39.5	37.1	55.7
151	57.2	58.8	88.2#

Manual Integrations
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5/17/2019 4:20:13 PM



#10

Methyl Iodide

Concen: 65.556 ug/l

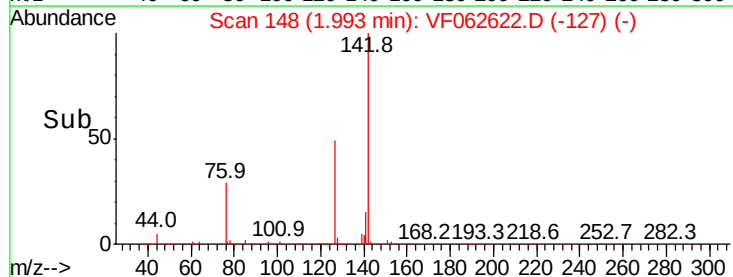
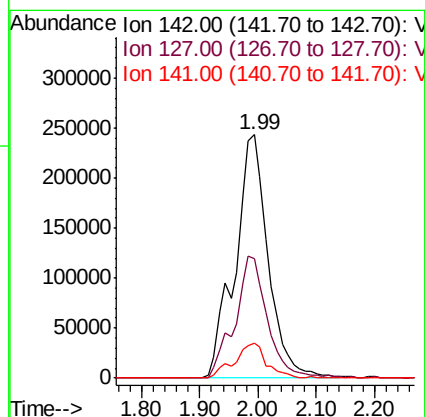
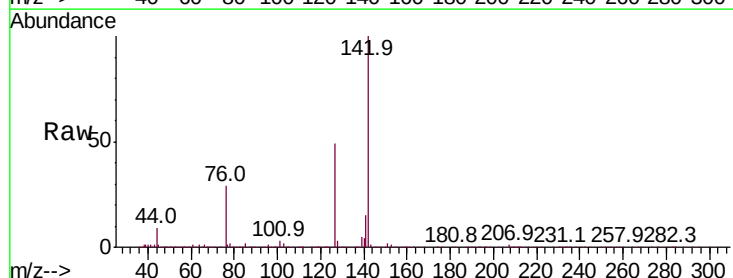
RT: 1.99 min Scan# 148

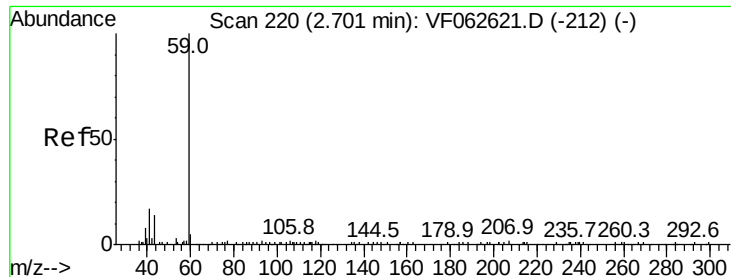
Delta R.T. 0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	142	Resp:	966219
Ion Ratio	Lower	Upper	
142	100		
127	48.9	38.1	57.1
141	14.6	11.7	17.5





#11

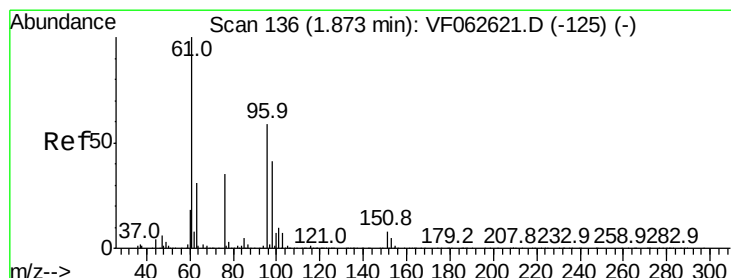
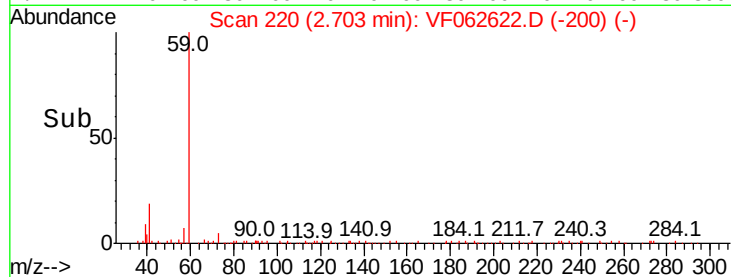
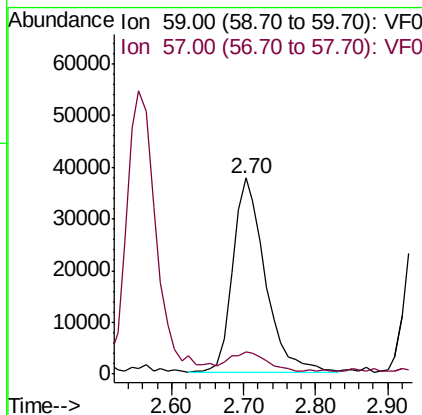
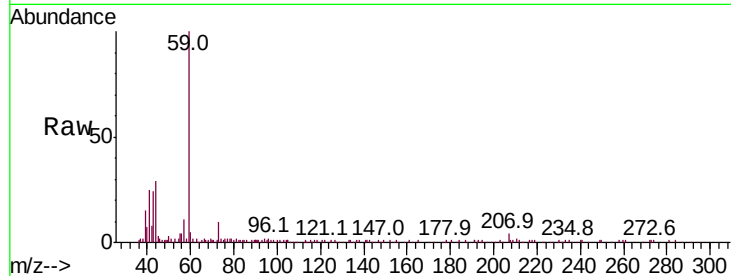
Tert butyl alcohol
Concen: 332.704 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.3	13.9

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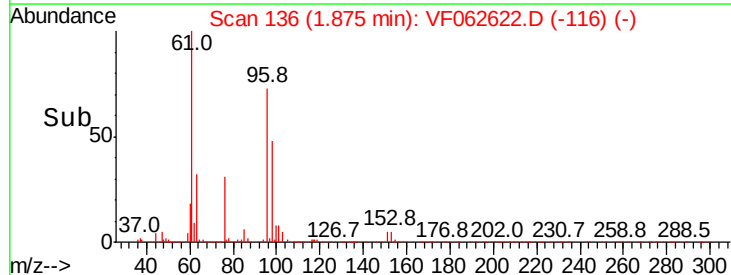
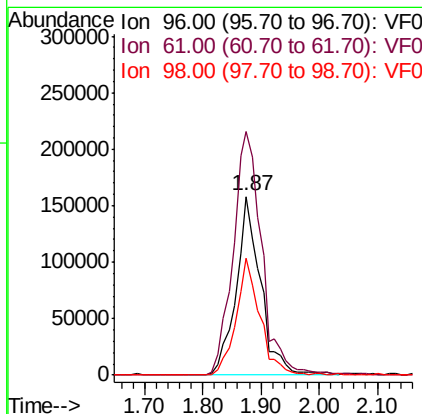
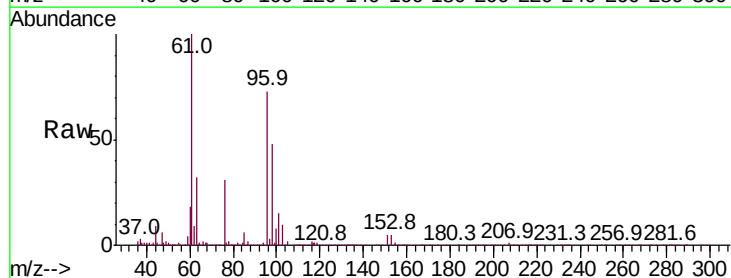
MMDadoda
5/17/2019 4:20:13 PM

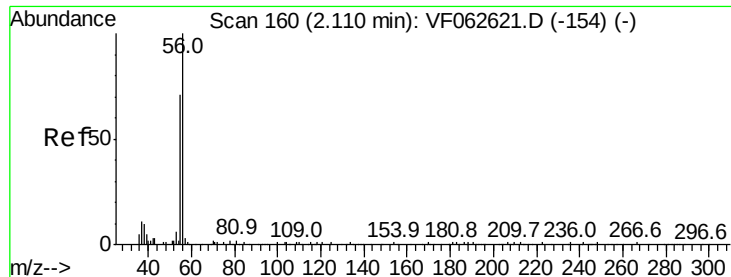


#12

1,1-Dichloroethene
Concen: 67.184 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.3	134.3	201.5
98	65.1	55.0	82.6





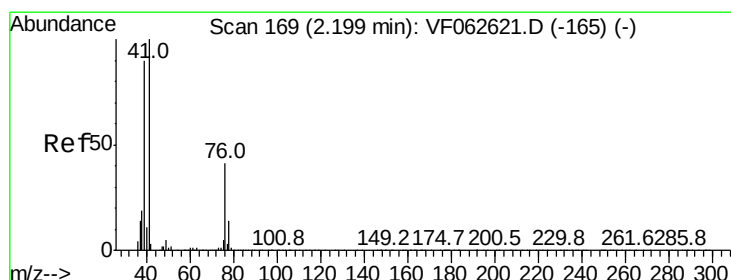
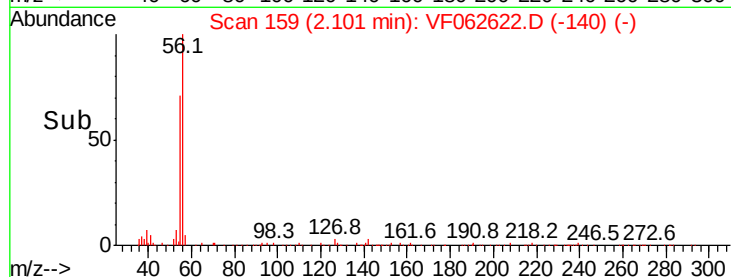
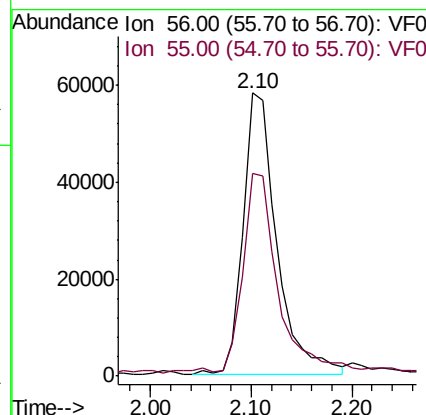
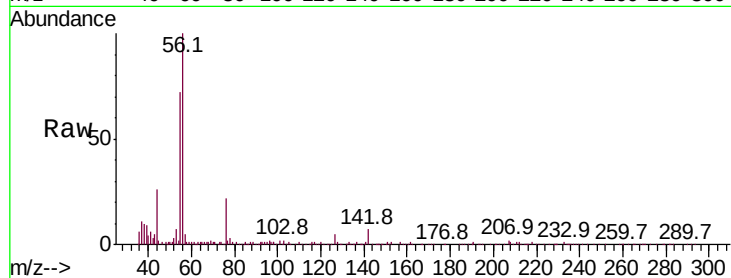
#13
Acrolein
Concen: 364.234 ug/l
RT: 2.10 min Scan# 159
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.7	59.4	89.0

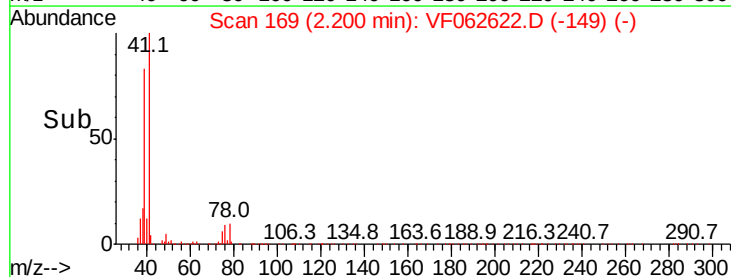
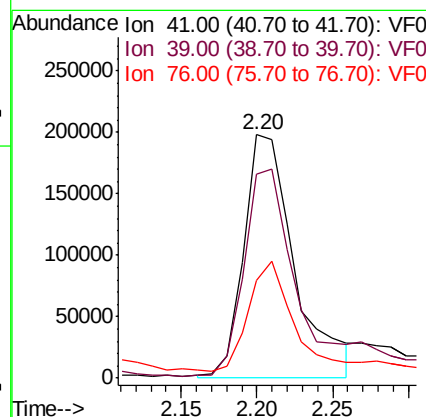
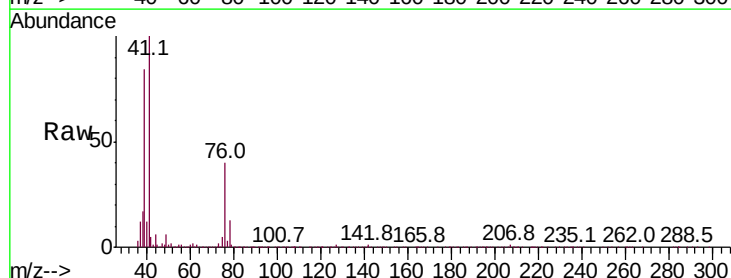
Manual Integrations
APPROVED

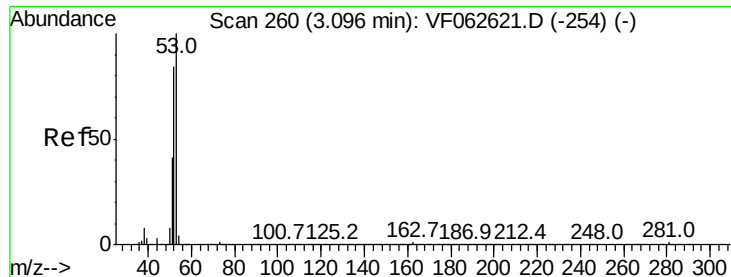
MMDadoda
5/17/2019 4:20:13 PM



#14
Allyl chloride
Concen: 69.483 ug/l m
RT: 2.20 min Scan# 169
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
41	100		
39	83.7	72.0	108.0
76	39.9	34.8	52.2





#15

Acrylonitrile

Concen: 307.196 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

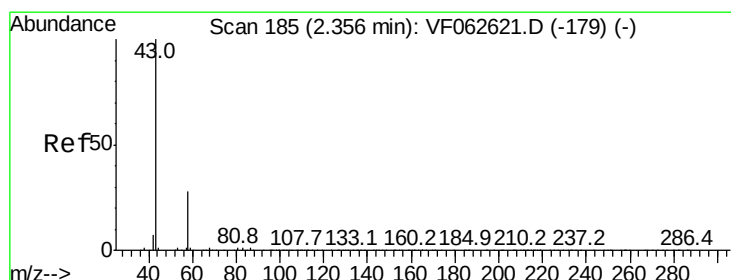
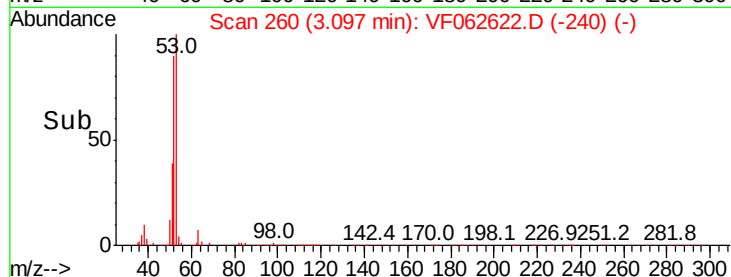
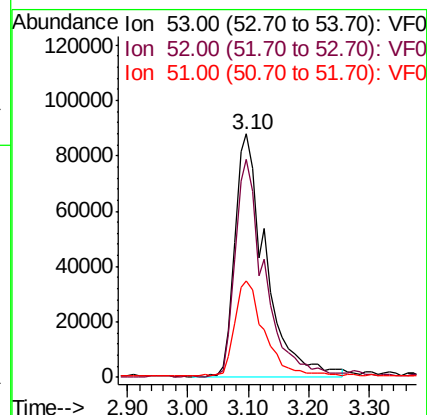
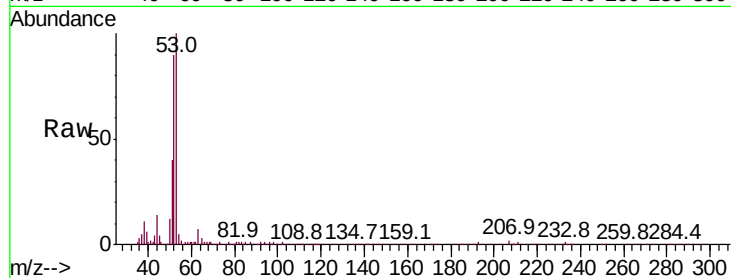
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	307587
Ion Ratio	Lower	Upper	
53	100		
52	89.7	67.3	100.9
51	39.8	33.0	49.6

Manual Integrations
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#16

Acetone

Concen: 360.914 ug/l

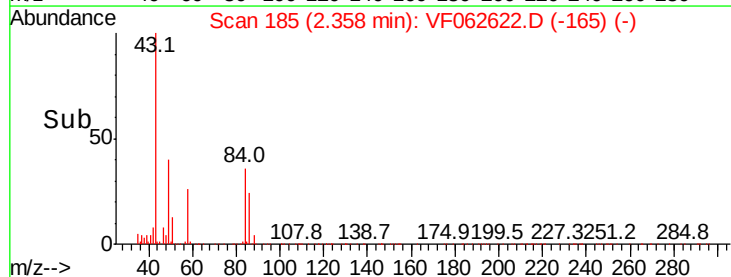
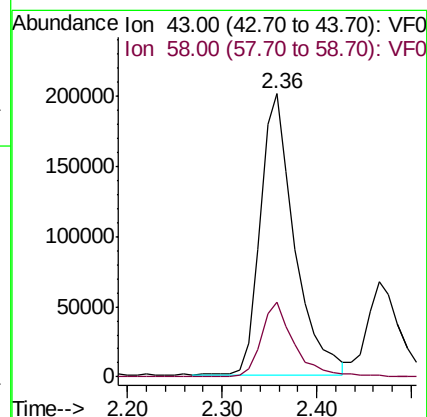
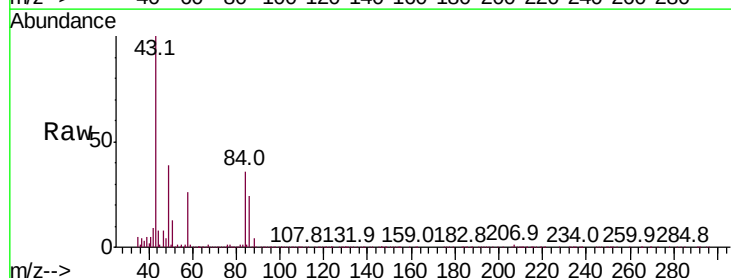
RT: 2.36 min Scan# 185

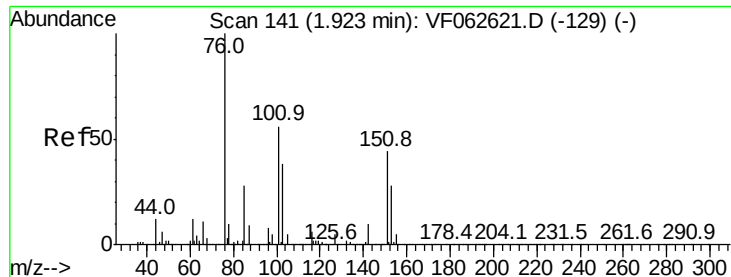
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	43	Resp:	503412
Ion Ratio	Lower	Upper	
43	100		
58	26.3	22.6	33.8





#17

Carbon Disulfide

Concen: 72.124 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 1404612

Ion Ratio Lower Upper

76 100

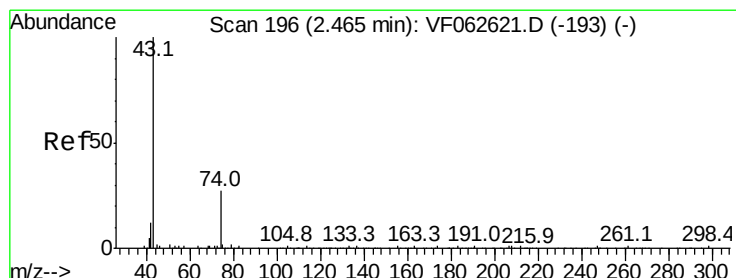
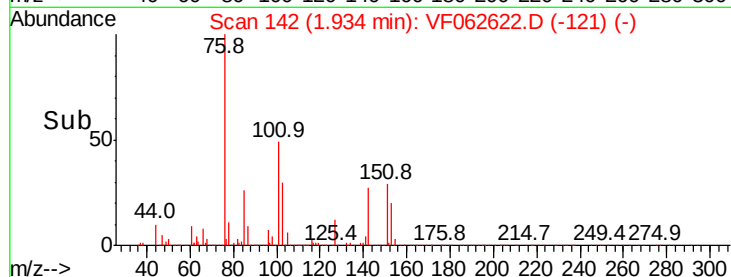
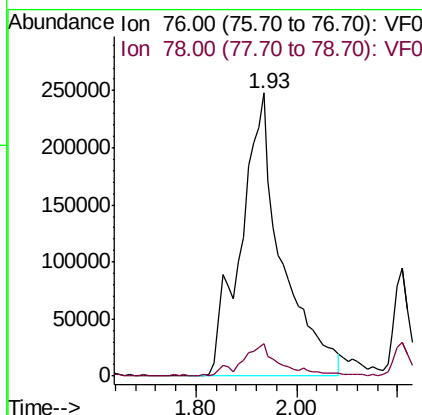
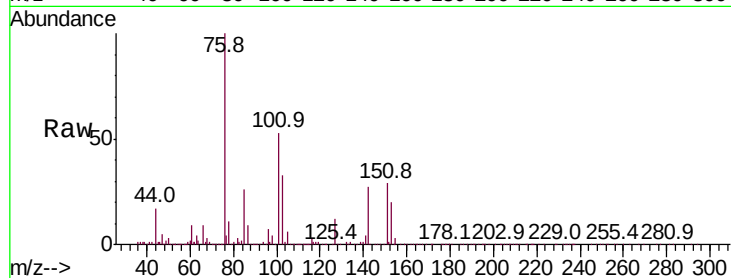
78 11.5 8.4 12.6

Manual Integrations

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#18

Methyl Acetate

Concen: 60.937 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF062622.D

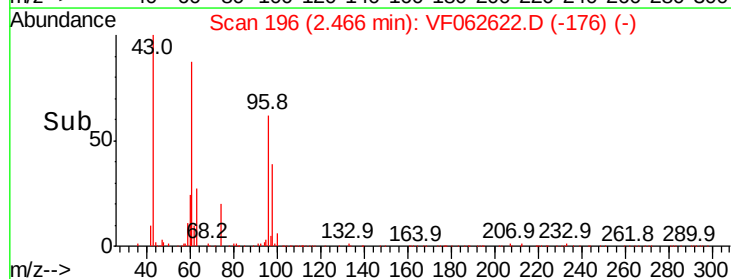
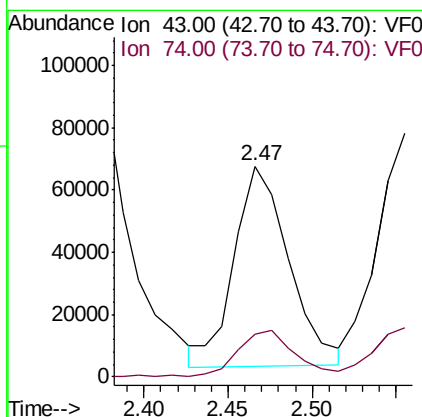
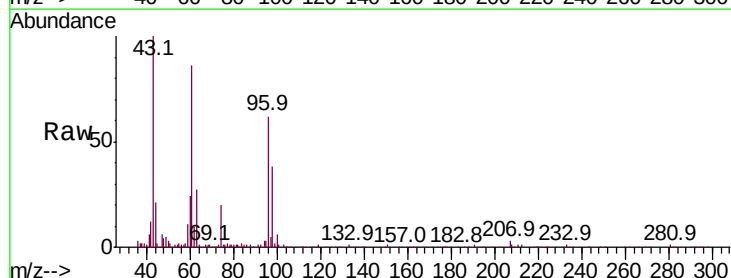
Acq: 16 May 2019 12:28

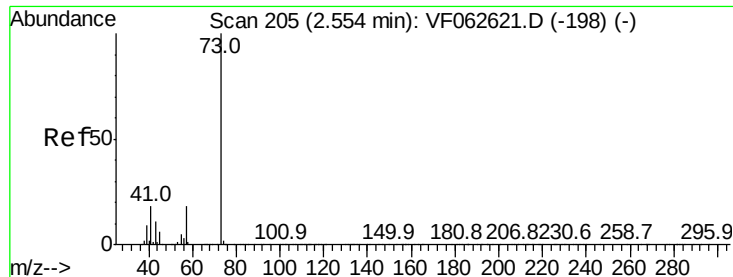
Tgt Ion: 43 Resp: 145255

Ion Ratio Lower Upper

43 100

74 20.2 18.9 28.3





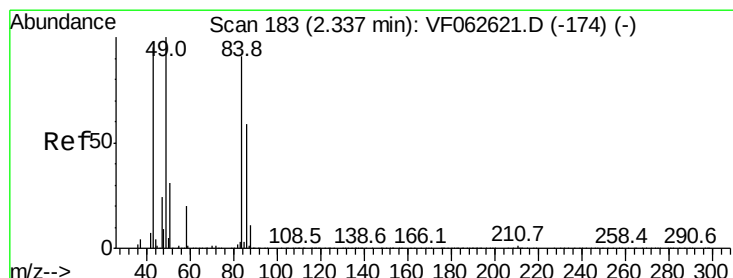
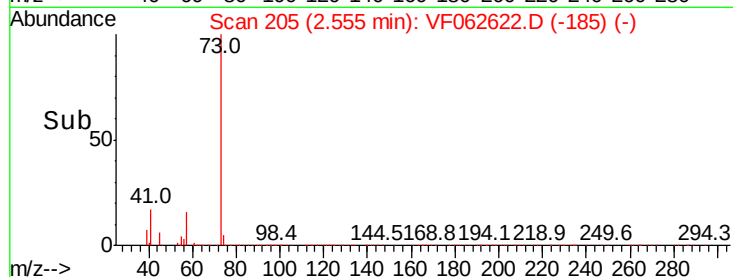
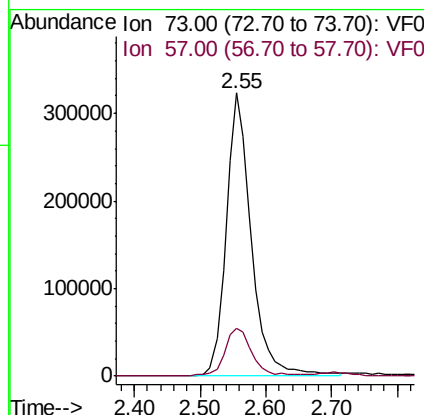
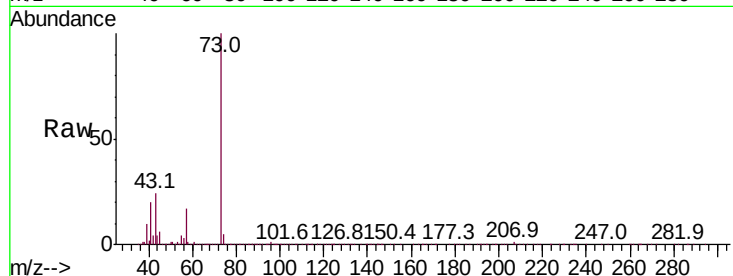
#19
Methyl tert-butyl Ether
Concen: 69.729 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.9	14.2	21.4

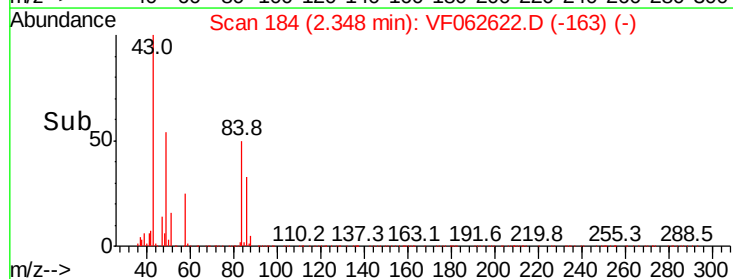
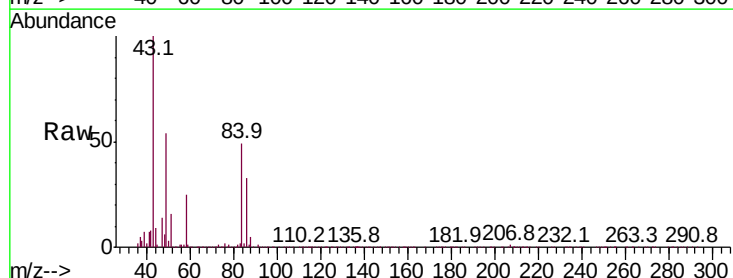
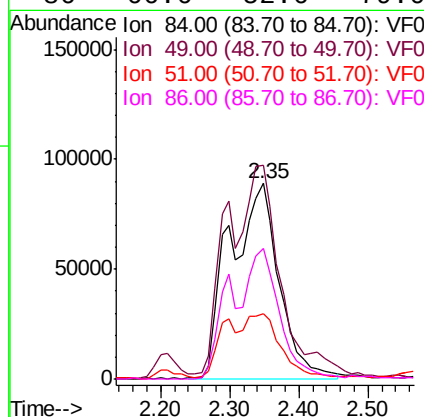
Manual Integrations
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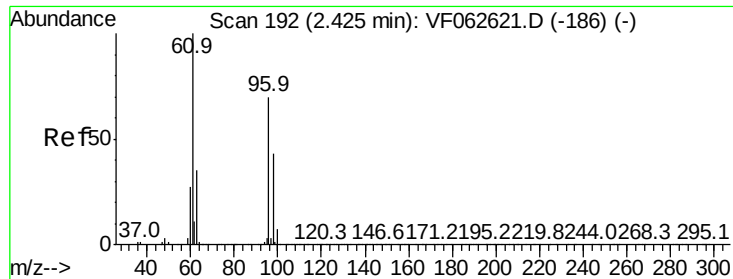
MMDadoda
5/17/2019 4:20:13 PM



#20
Methylene Chloride
Concen: 63.434 ug/l m
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
84	100		
49	109.2	89.8	134.8
51	33.1	28.4	42.6
86	66.6	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 70.188 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

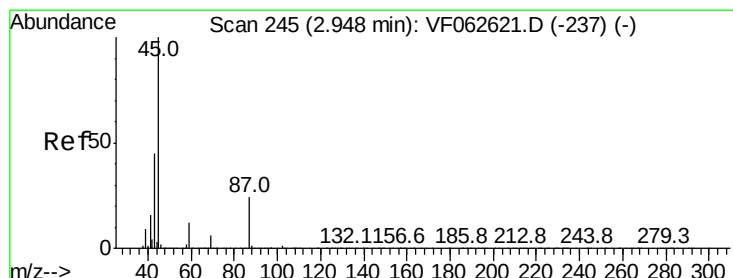
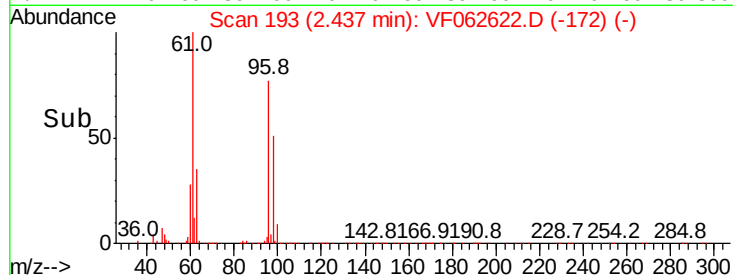
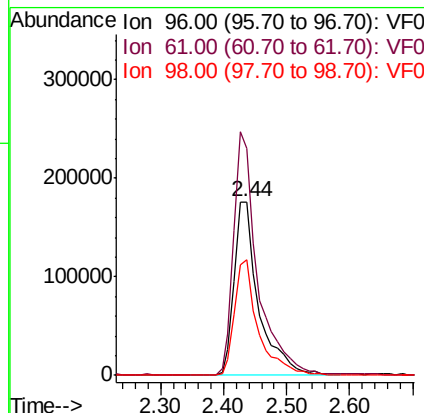
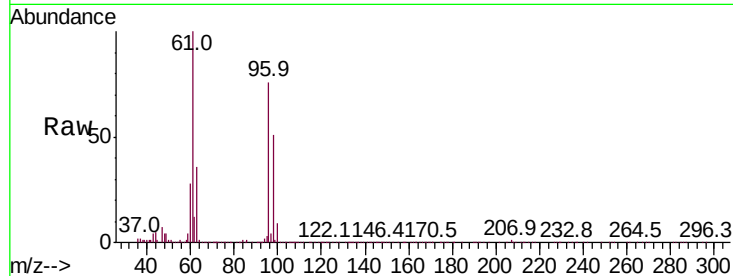
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	468886
Ion	Ratio	Lower	Upper
96	100		
61	131.2	114.6	171.8
98	67.0	49.5	74.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 65.630 ug/l

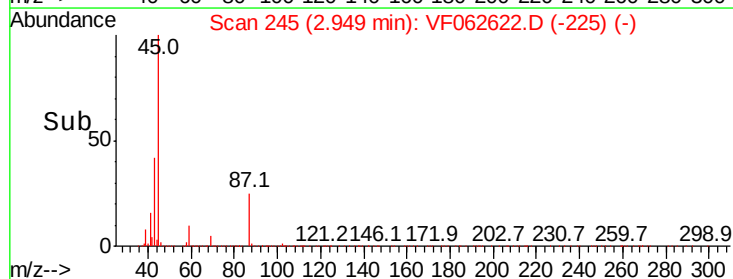
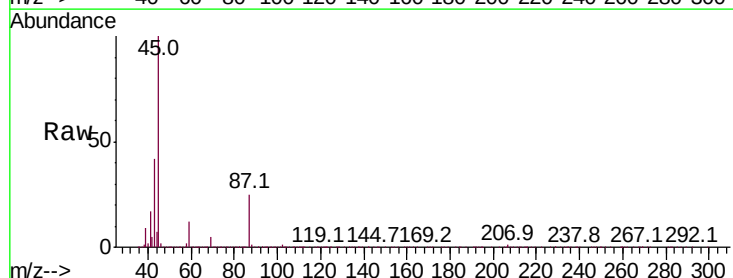
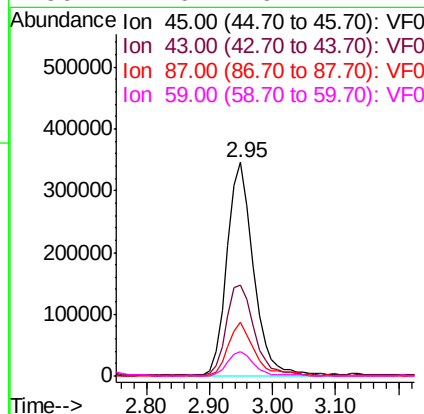
RT: 2.95 min Scan# 245

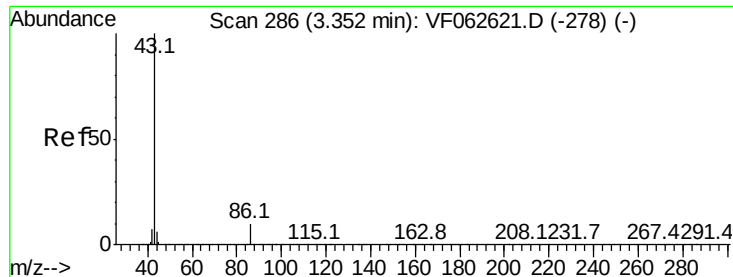
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	45	Resp:	1001301
Ion	Ratio	Lower	Upper
45	100		
43	42.3	36.4	54.6
87	25.2	19.3	28.9
59	11.6	9.4	14.2





#23

Vinyl Acetate

Concen: 320.517 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 3298695

Ion Ratio Lower Upper

43 100

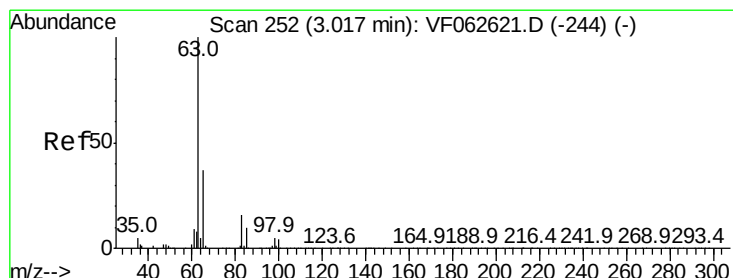
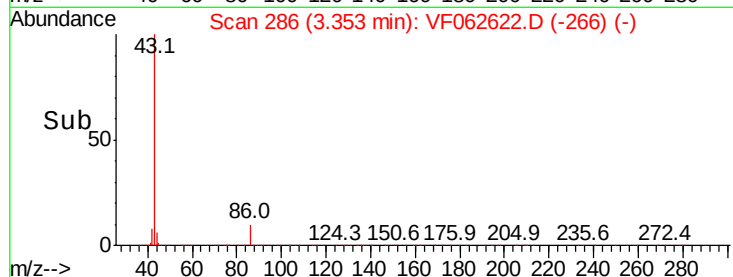
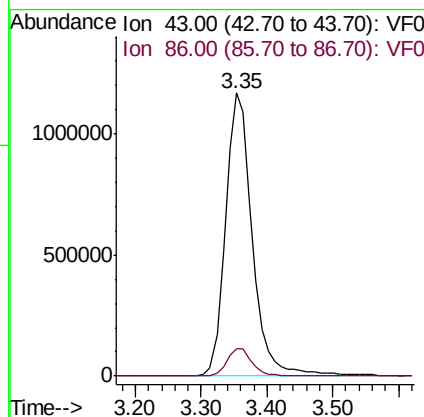
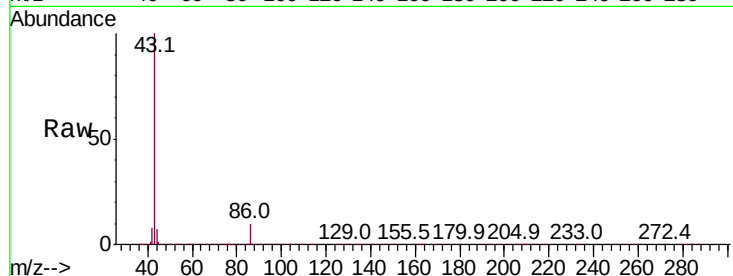
86 9.7 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

5/17/2019 4:20:13 PM



#24

1,1-Dichloroethane

Concen: 67.385 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

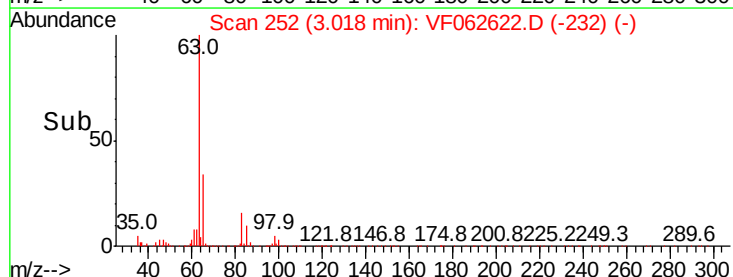
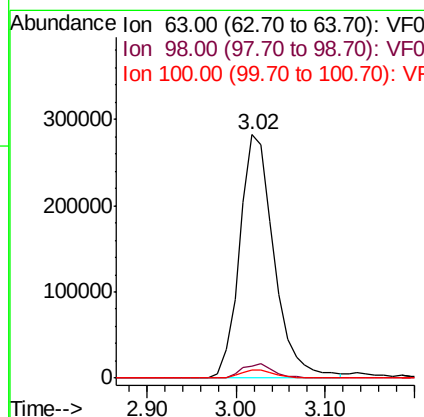
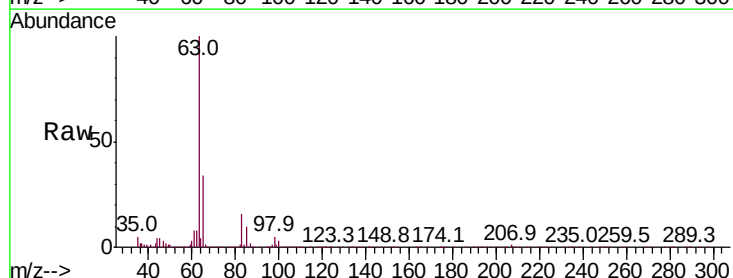
Tgt Ion: 63 Resp: 754191

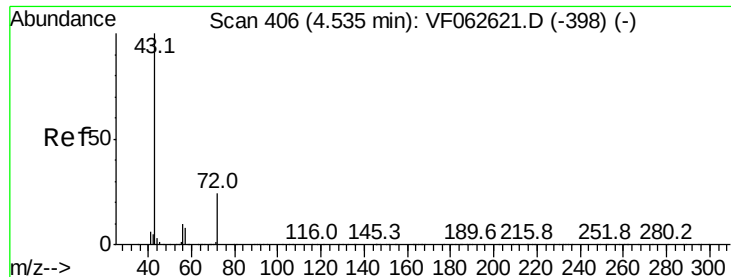
Ion Ratio Lower Upper

63 100

98 4.9 2.8 8.3

100 3.4 1.9 5.7





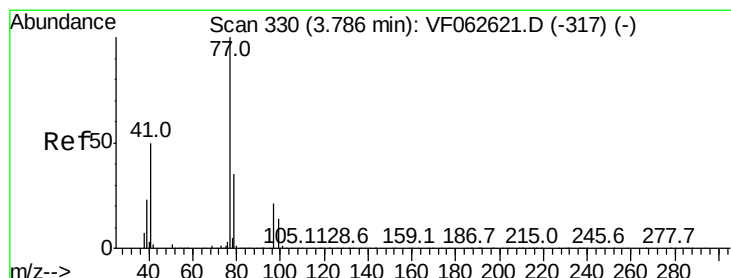
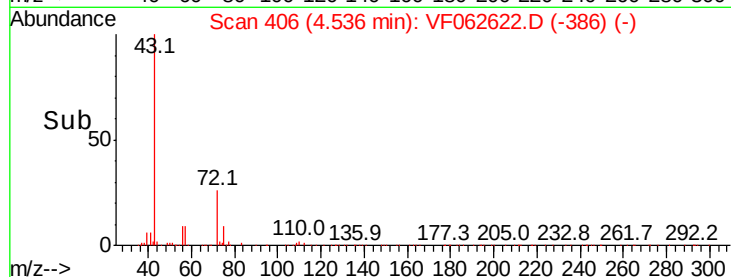
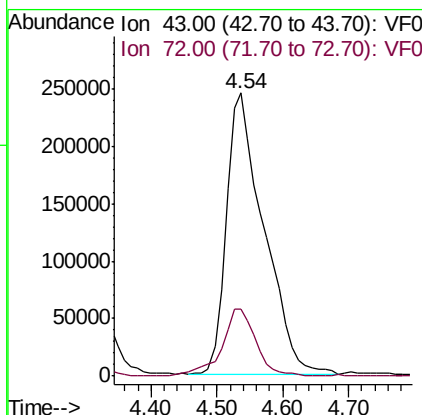
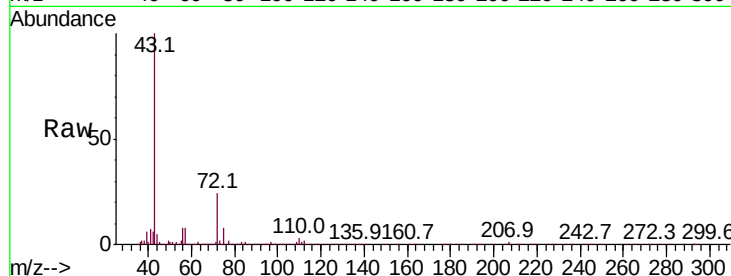
#25
2-Butanone
Concen: 326.782 ug/l
RT: 4.54 min Scan# 406
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1

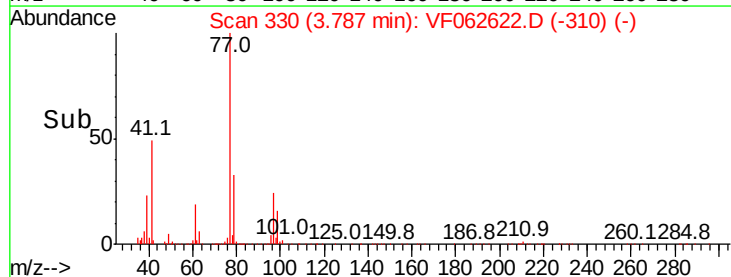
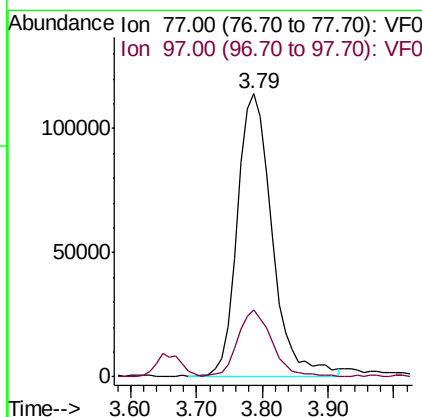
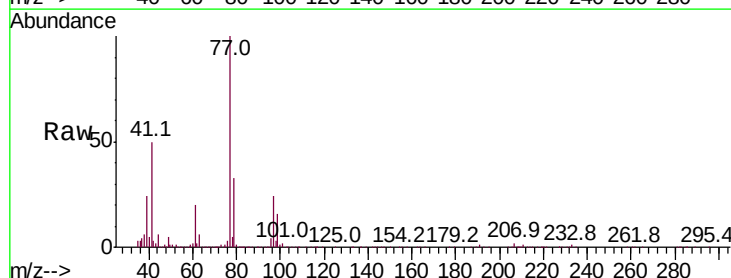
Manual Integrations
APPROVED

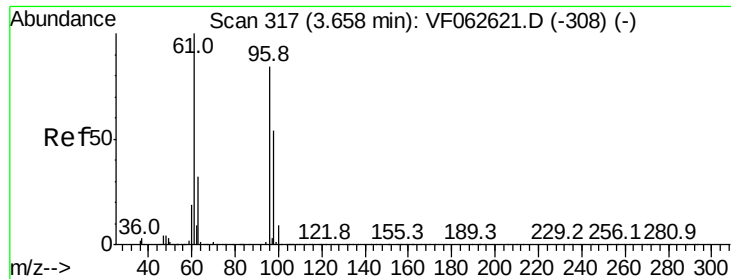
MMDadoda
5/17/2019 4:20:13 PM



#26
2,2-Dichloropropane
Concen: 66.266 ug/l
RT: 3.79 min Scan# 330
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
77	100		
97	23.6	14.1	42.4





#27

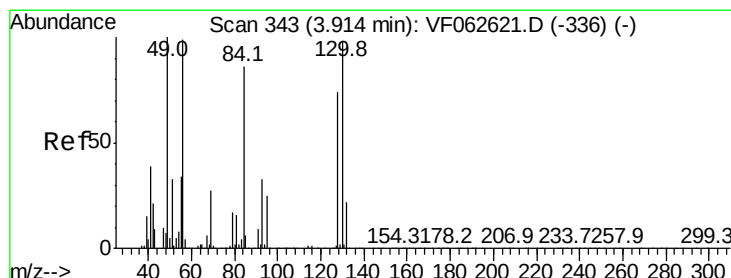
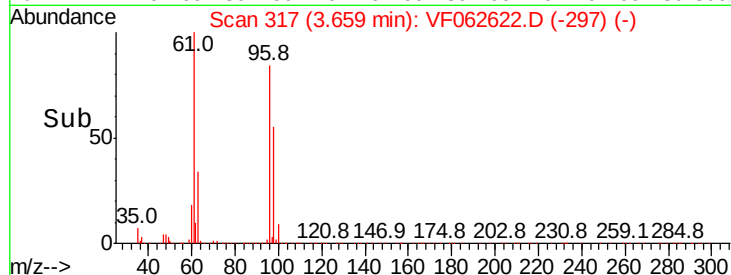
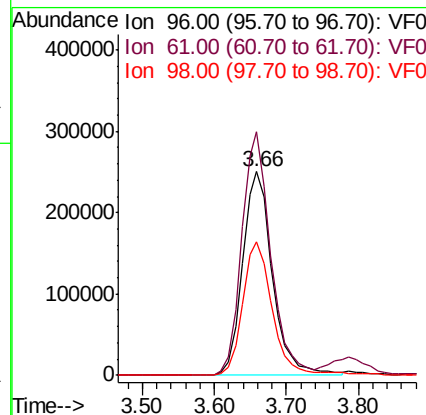
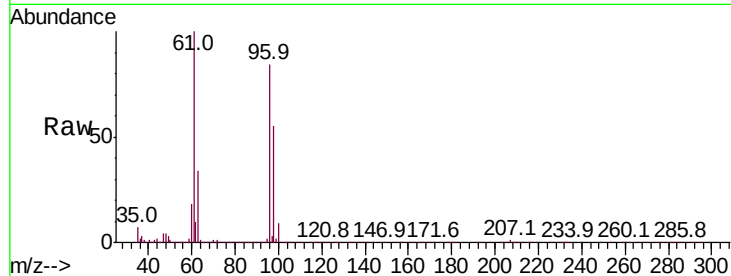
cis-1,2-Dichloroethene
Concen: 65.288 ug/l
RT: 3.66 min Scan# 317
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
96	100	717436		
61	119.5	0.0	237.4	
98	65.4	0.0	129.0	

Manual Integrations
APPROVED

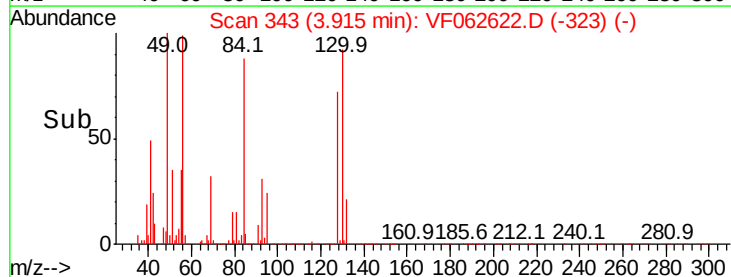
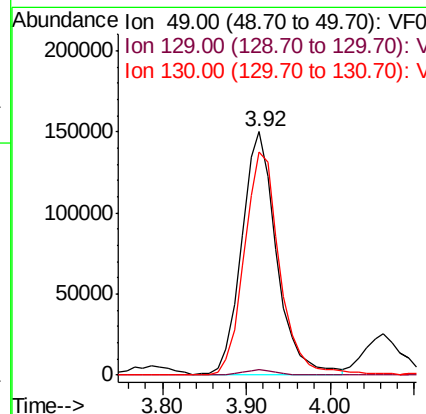
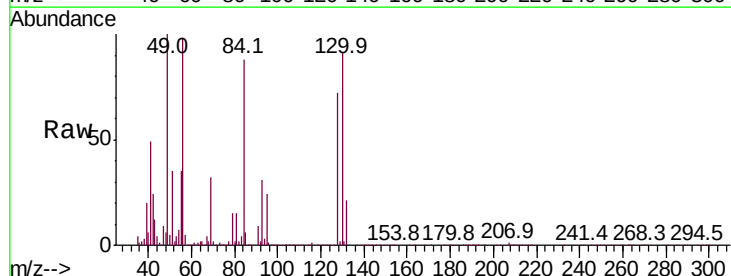
MMDadoda
5/17/2019 4:20:13 PM

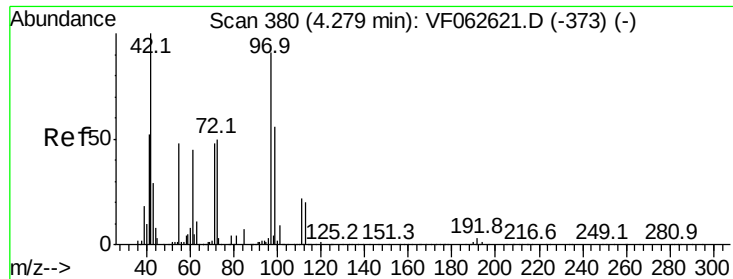


#28

Bromochloromethane
Concen: 68.387 ug/l
RT: 3.92 min Scan# 343
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	429280		
129	2.5	0.0	4.0	
130	91.4	77.8	116.8	





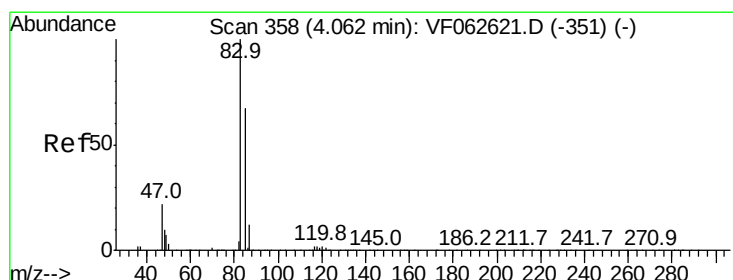
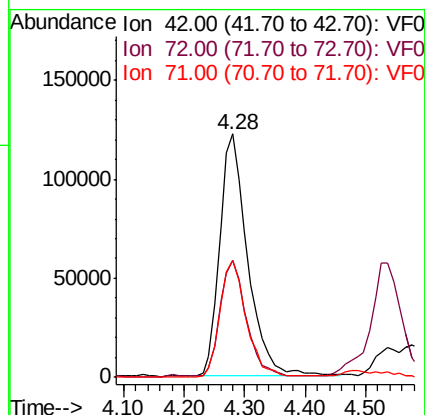
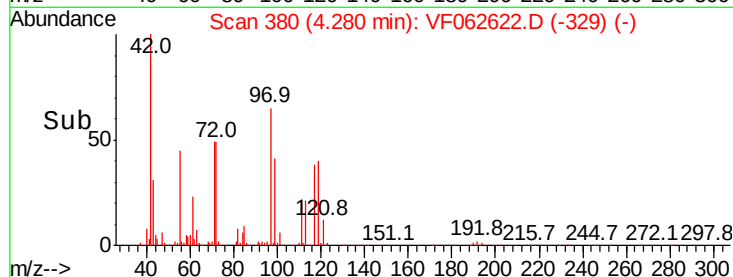
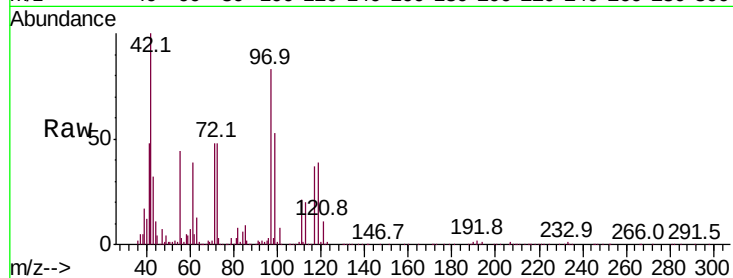
#29
Tetrahydrofuran
Concen: 325.691 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
42	100	392756		
72	44.8		38.2	57.2
71	45.9		35.8	53.6

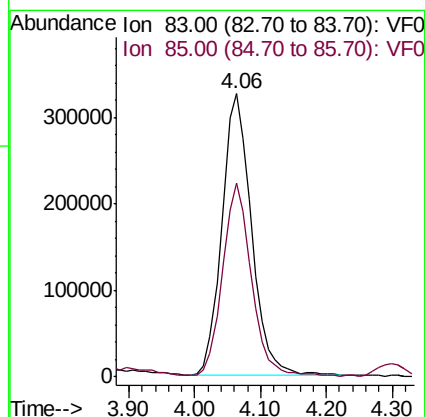
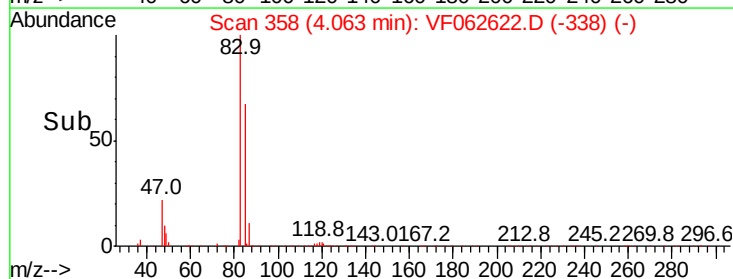
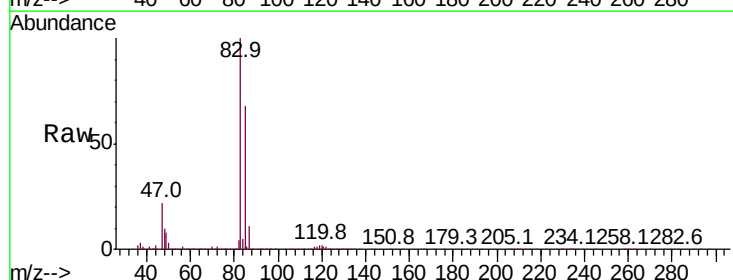
Manual Integrations
APPROVED

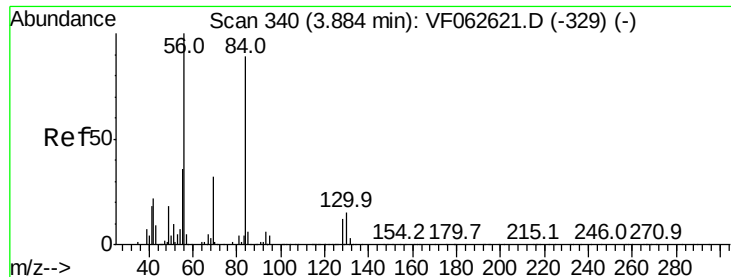
MMDadoda
5/17/2019 4:20:13 PM



#30
Chloroform
Concen: 65.922 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1024401		
85	68.4		53.6	80.4





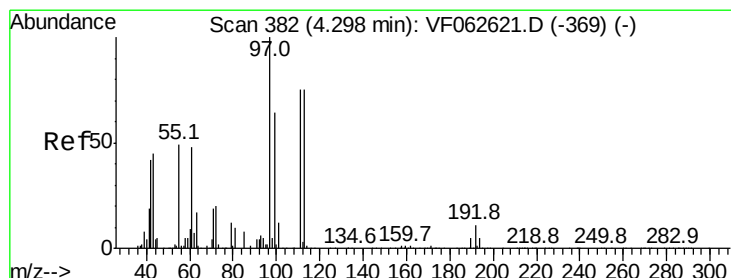
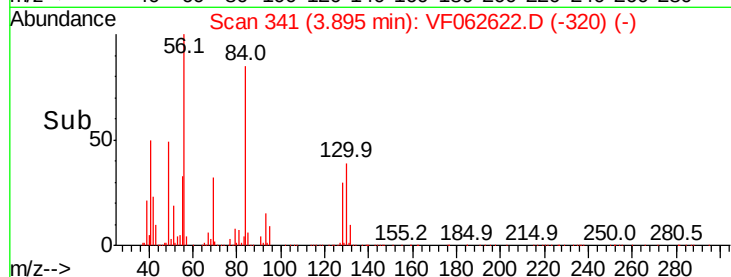
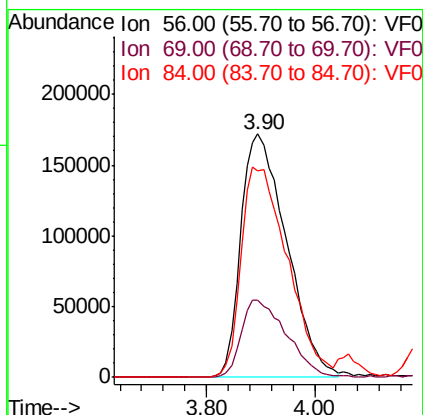
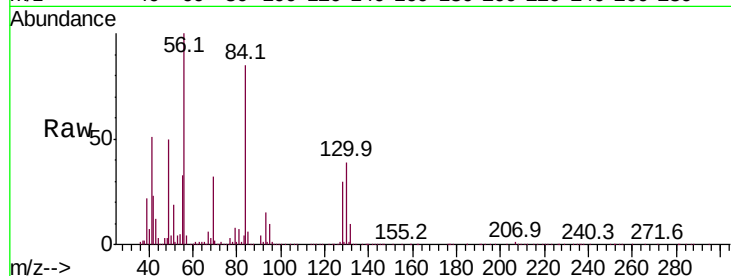
#31
Cyclohexane
Concen: 72.166 ug/l
RT: 3.90 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 56 Resp: 1005564
Ion Ratio Lower Upper
56 100
69 32.0 25.3 37.9
84 84.8 71.0 106.4

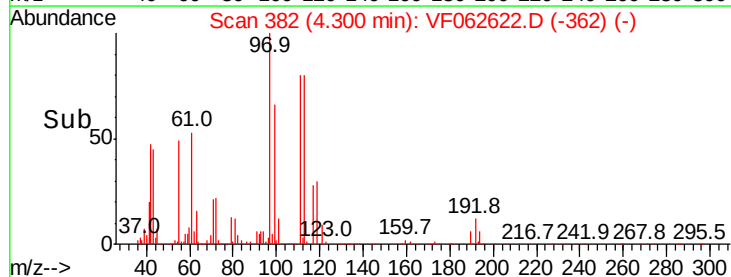
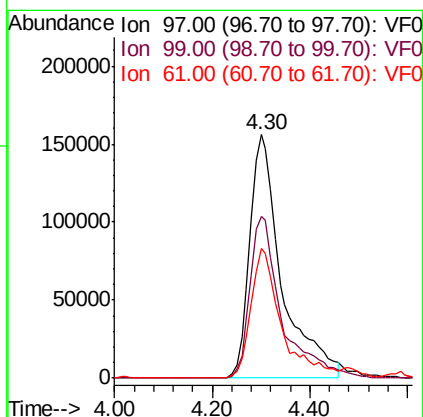
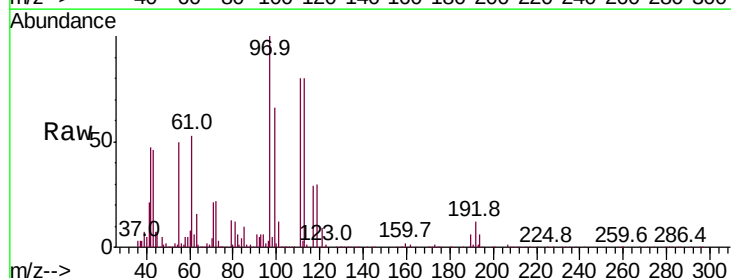
Manual Integrations
APPROVED

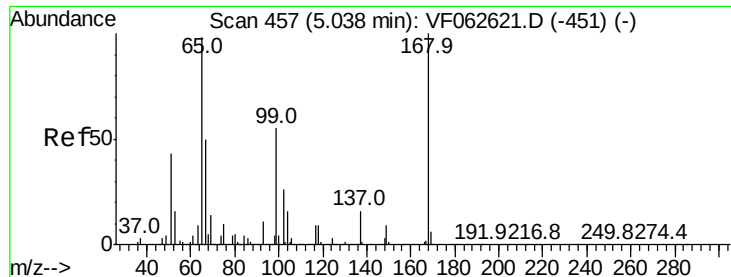
MMDadoda
5/17/2019 4:20:13 PM



#32
1,1,1-Trichloroethane
Concen: 69.139 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion: 97 Resp: 713525
Ion Ratio Lower Upper
97 100
99 66.3 51.3 76.9
61 53.4 38.2 57.2





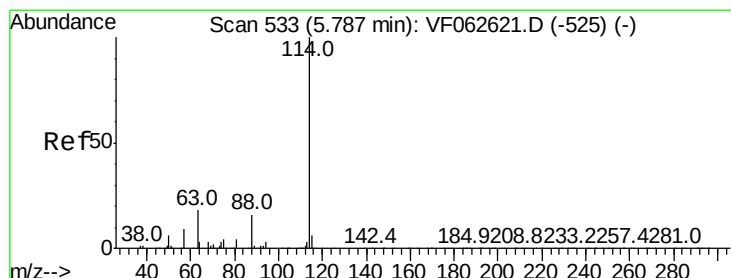
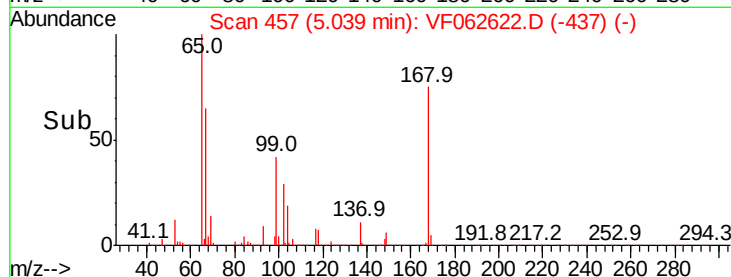
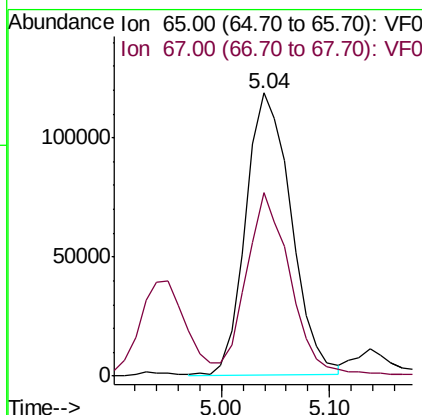
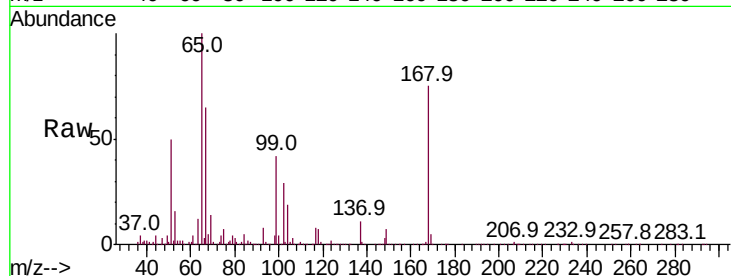
#33
 1,2-Dichloroethane-d4
 Concen: 64.274 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
65	100	345566		
67	64.9	0.0	117.6	

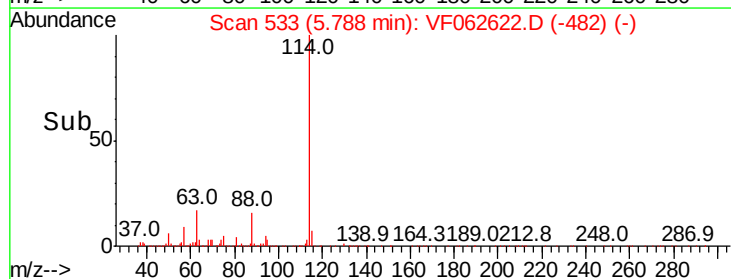
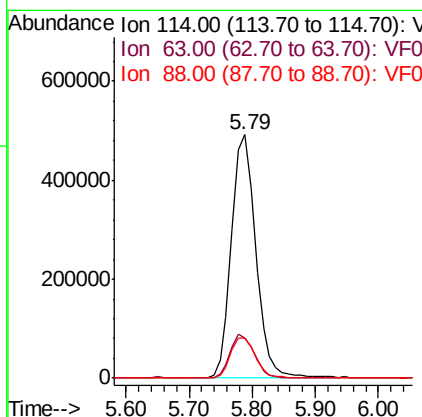
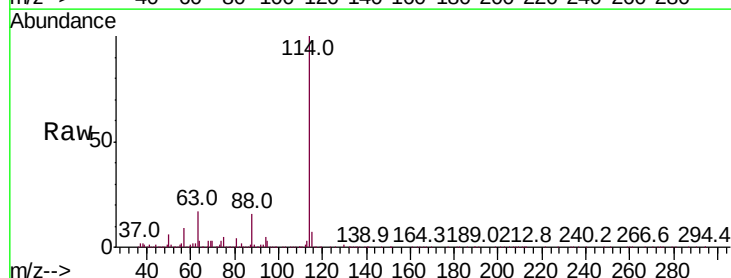
Manual Integrations
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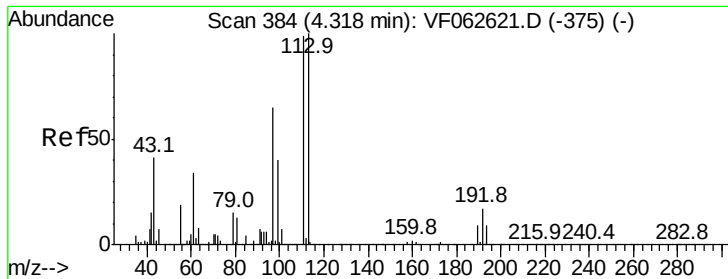
MMDadoda
 5/17/2019 4:20:13 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1321532		
63	16.7	0.0	35.4	
88	16.4	0.0	32.4	





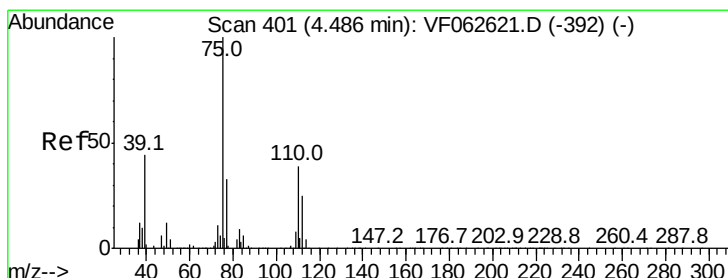
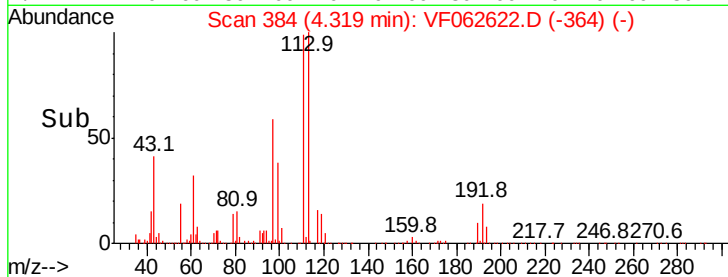
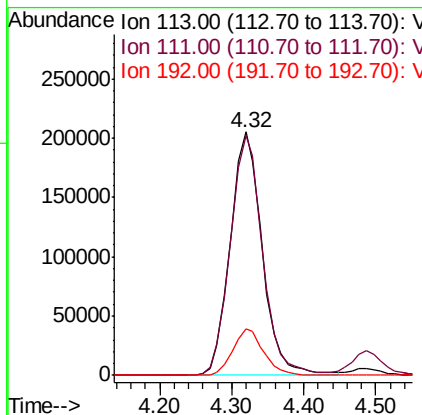
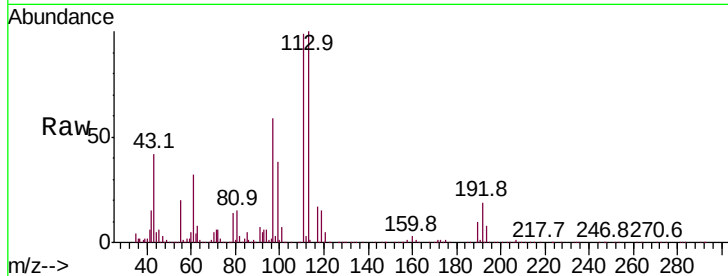
#35
 Dibromofluoromethane
 Concen: 62.778 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
113	100	634838		
111	98.5	79.4	119.2	
192	19.3	13.4	20.2	

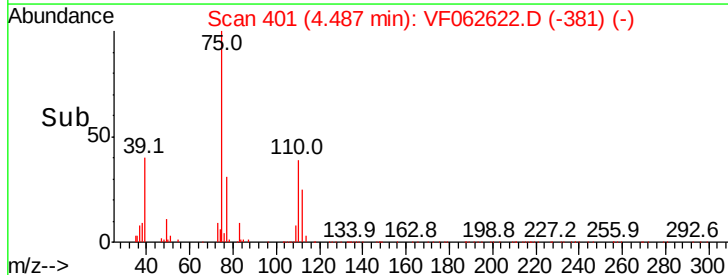
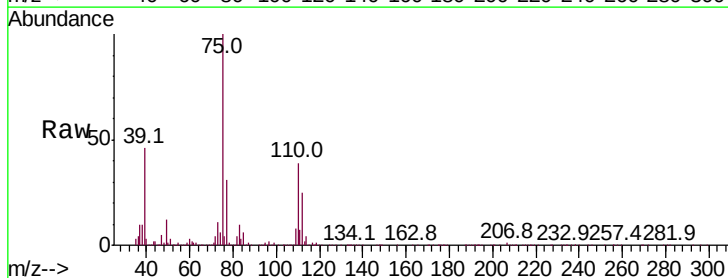
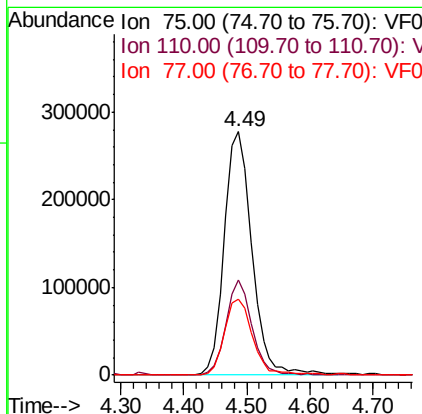
Manual Integrations
 APPROVED

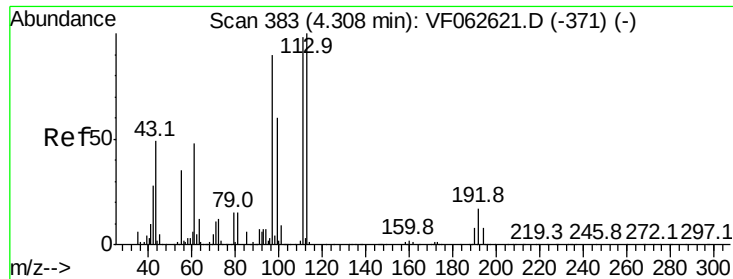
MMDadoda
 5/17/2019 4:20:13 PM



#36
 1,1-Dichloropropene
 Concen: 62.638 ug/l
 RT: 4.49 min Scan# 401
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	848215		
110	39.3	19.7	59.1	
77	31.3	26.3	39.5	





#37

Ethyl Acetate

Concen: 59.851 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

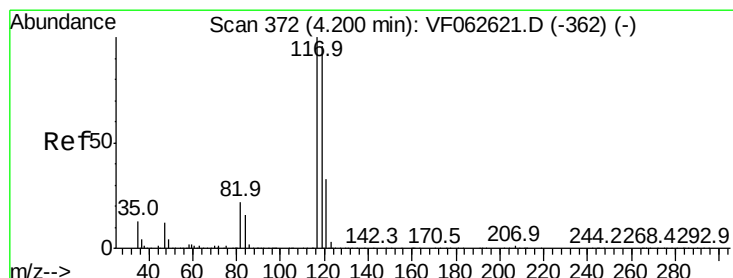
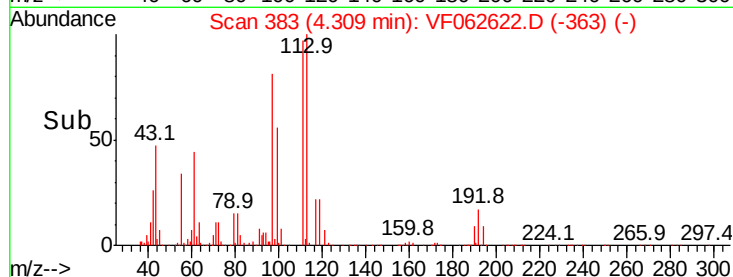
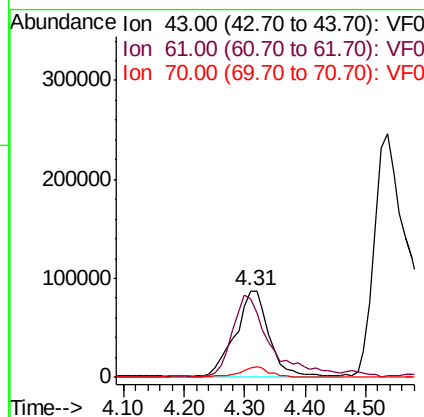
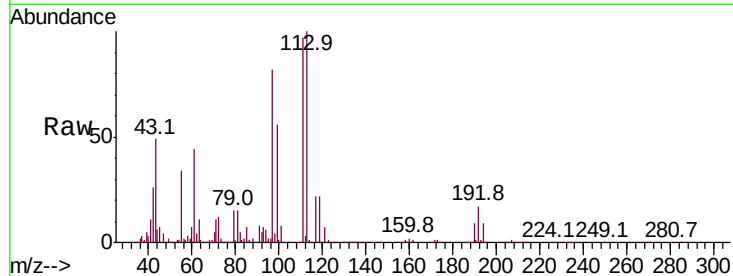
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	330921
Ion	Ratio	Lower	Upper
43	100		
61	91.4	76.9	115.3
70	10.6	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/17/2019 4:20:13 PM



#38

Carbon Tetrachloride

Concen: 72.304 ug/l

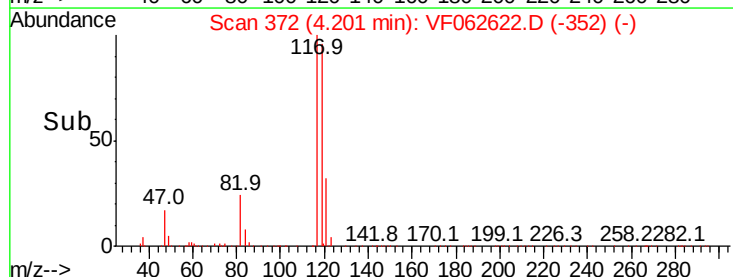
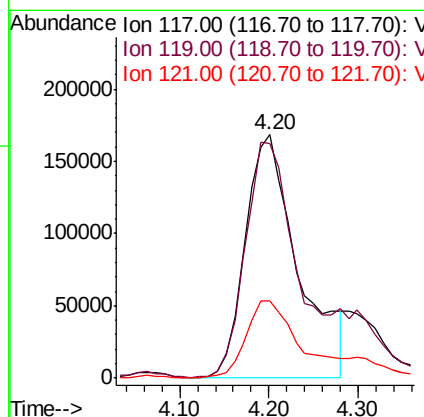
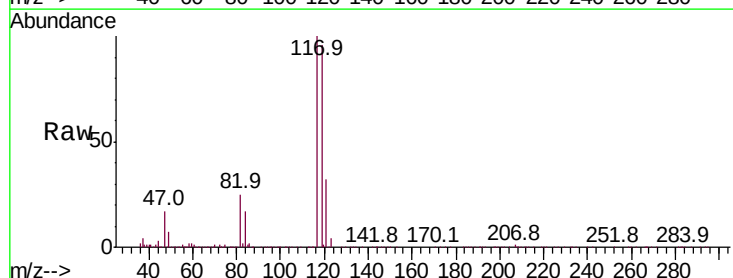
RT: 4.20 min Scan# 372

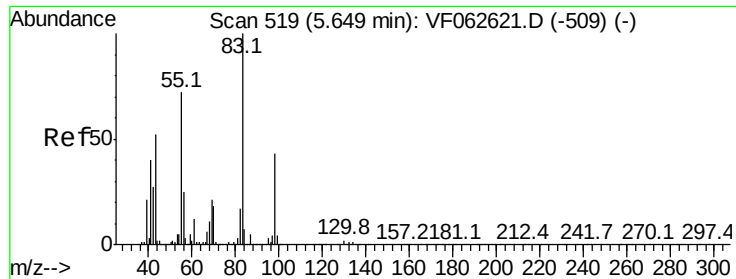
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	117	Resp:	689824
Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.7	115.1
121	31.9	26.6	40.0





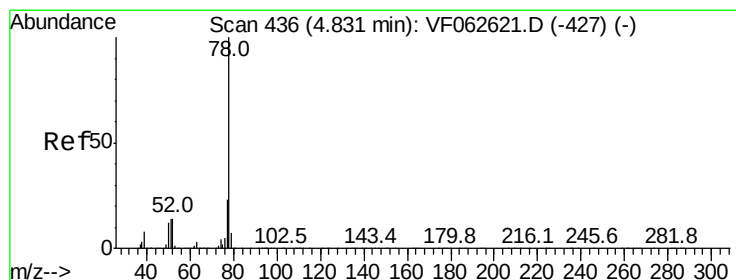
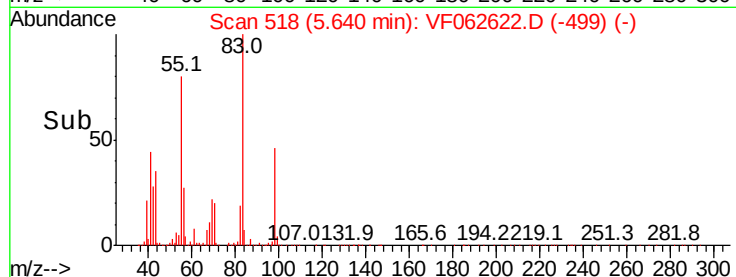
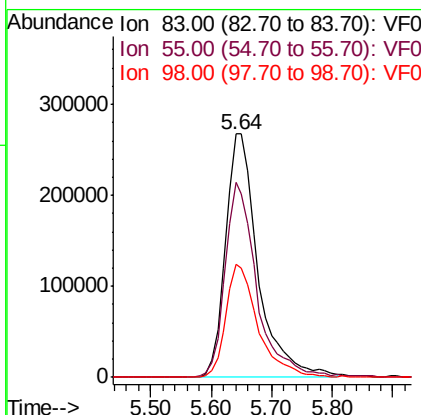
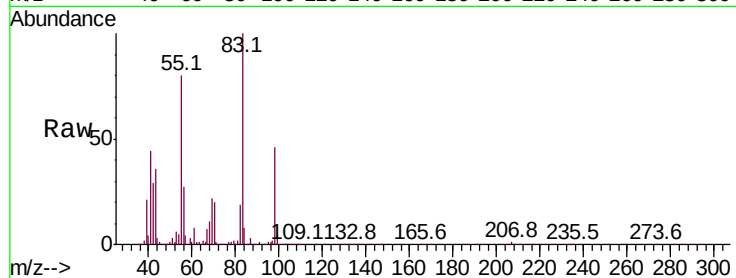
#39
Methylvlcyclohexane
Concen: 61.150 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	79.9	57.9	86.9	
98	46.2	34.6	52.0	

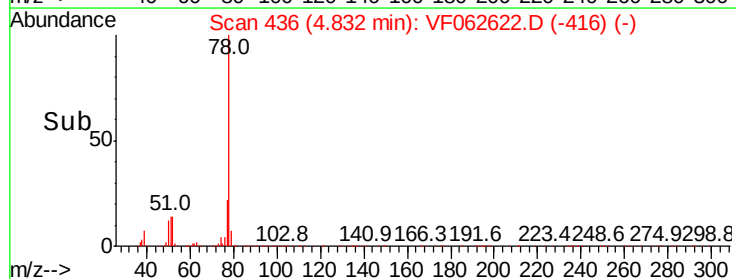
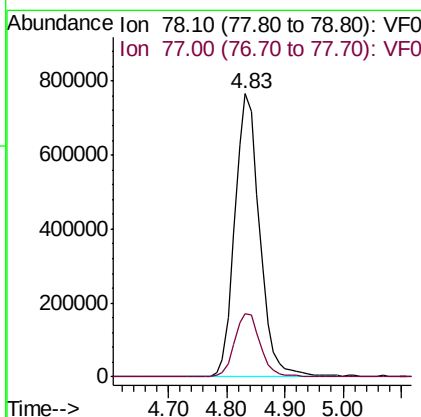
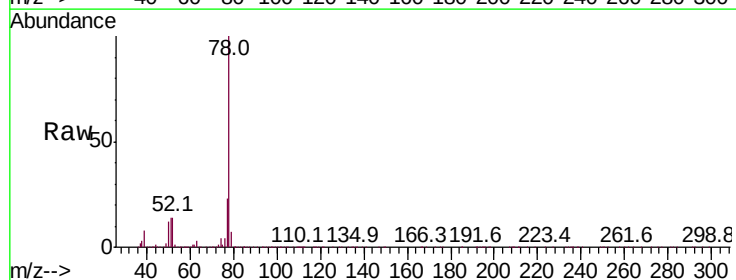
Manual Integrations
APPROVED

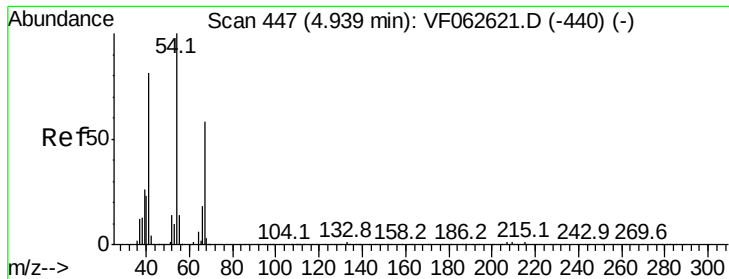
MMDadoda
5/17/2019 4:20:13 PM



#40
Benzene
Concen: 61.629 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	22.6	18.2	27.2	





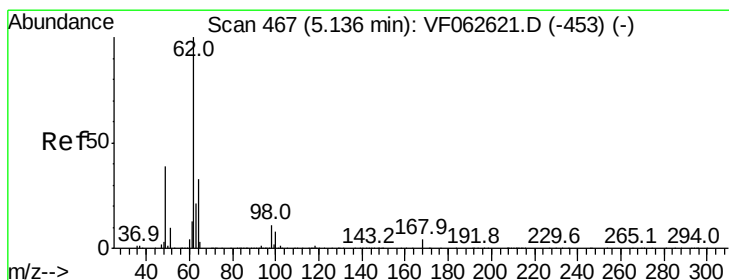
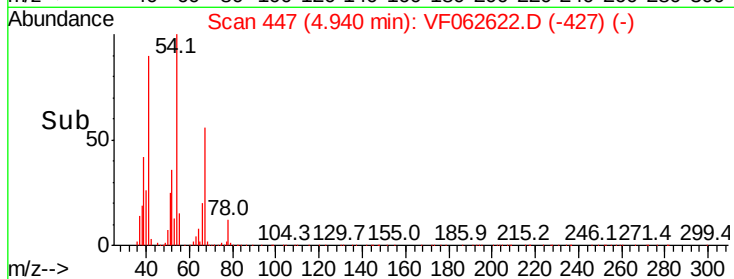
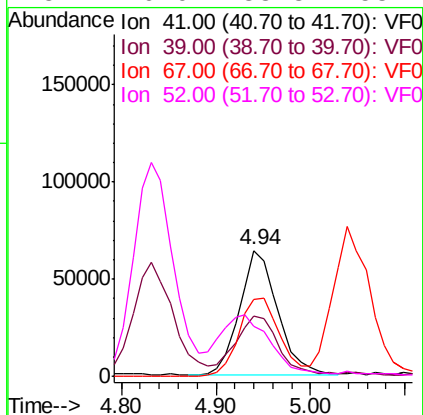
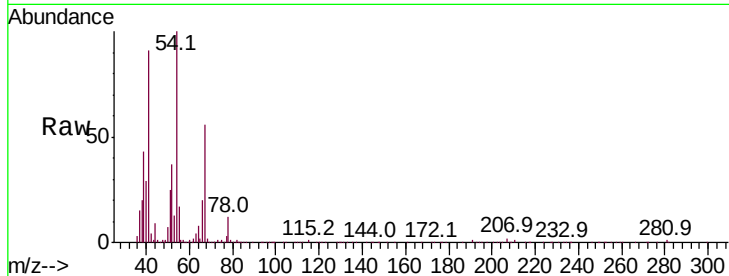
#41
Methacrylonitrile
Concen: 60.995 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
41	100		
39	47.5	42.2	63.2
67	60.9	56.4	84.6
52	40.0	38.8	58.2

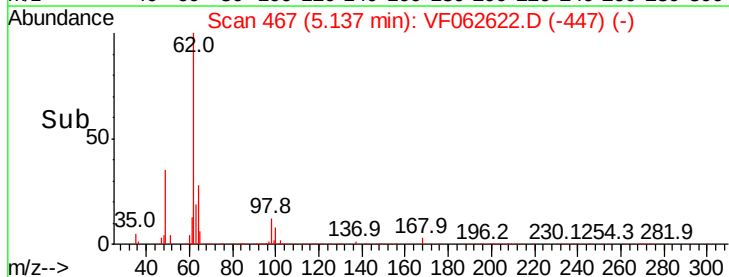
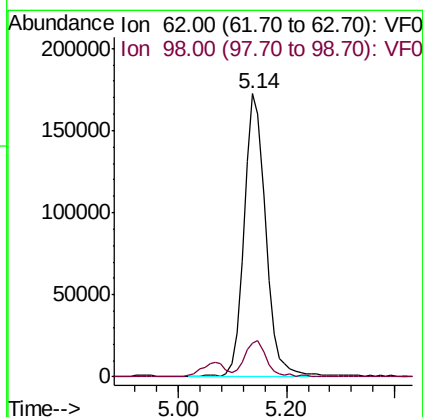
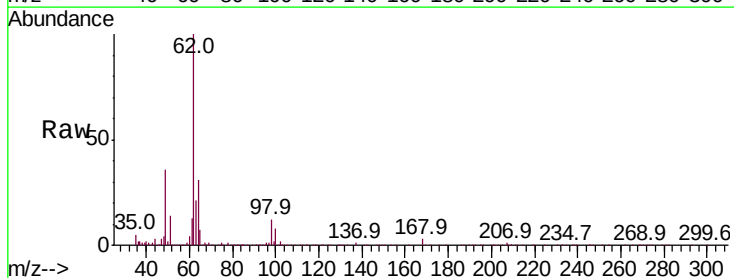
Manual Integrations
APPROVED

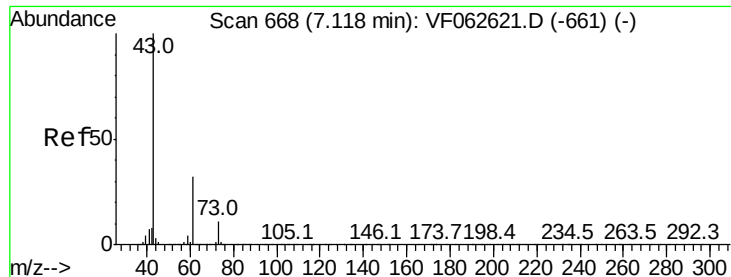
MMDadoda
5/17/2019 4:20:13 PM



#42
1,2-Dichloroethane
Concen: 64.937 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	12.1	0.0	21.6





#43

Isopropyl Acetate

Concen: 59.916 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

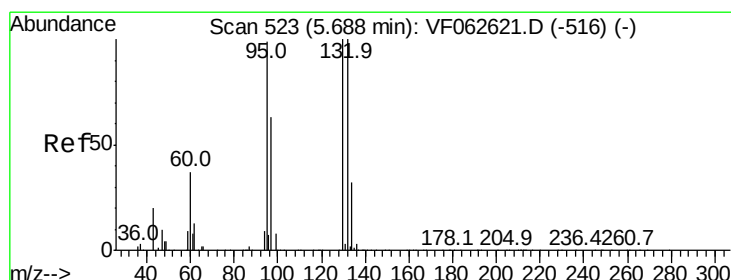
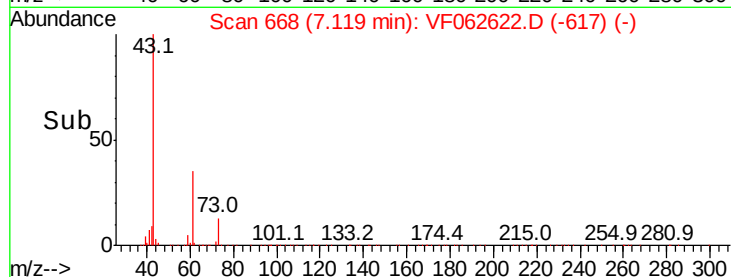
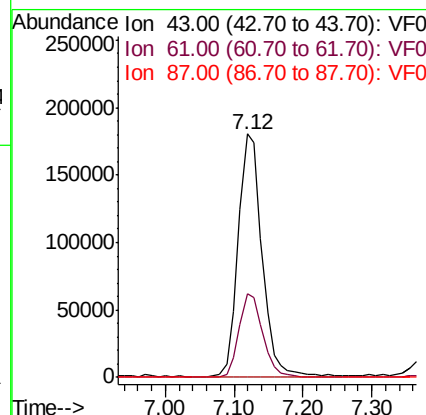
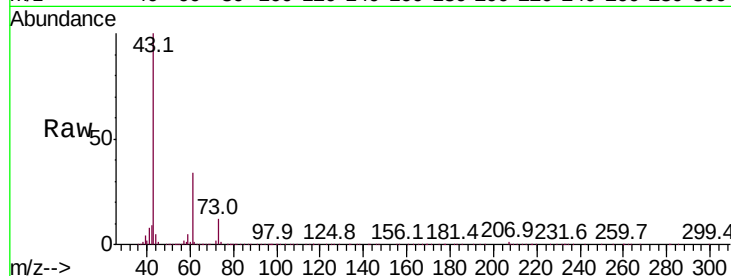
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	429186
Ion Ratio	Lower	Upper	
43	100		
61	34.4	25.8	38.8
87	0.3	0.4	0.6

Manual Integrations
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#44

Trichloroethene

Concen: 60.437 ug/l

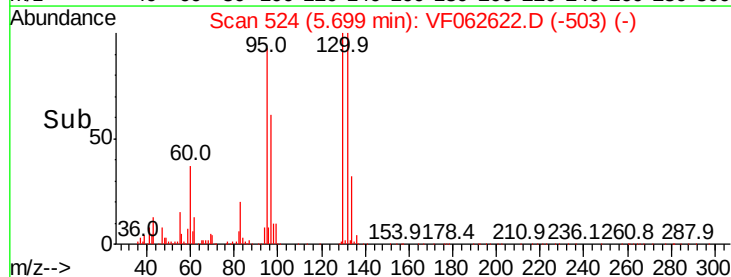
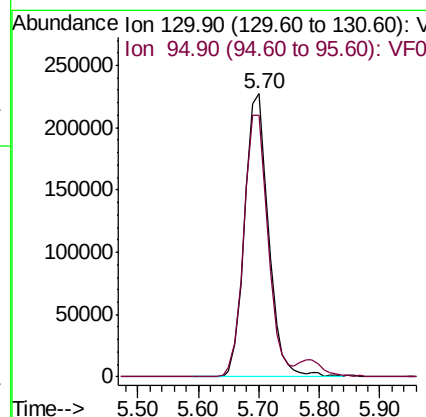
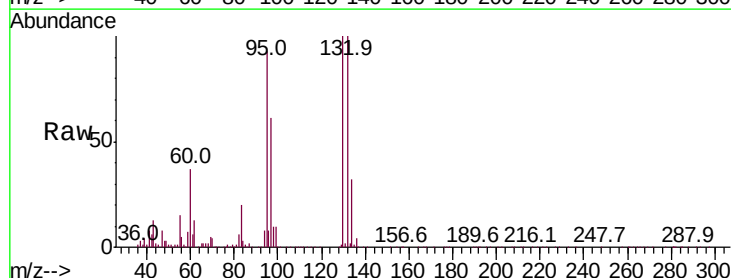
RT: 5.70 min Scan# 524

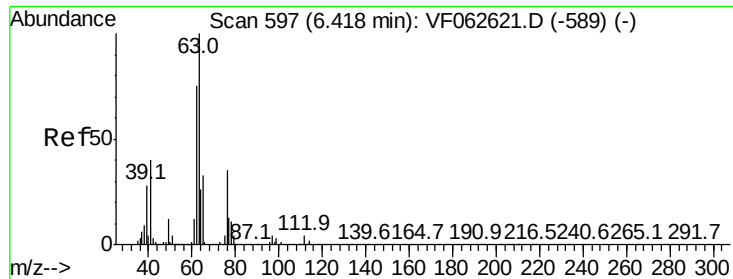
Delta R.T. 0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	130	Resp:	626639
Ion Ratio	Lower	Upper	
130	100		
95	92.6	0.0	199.4





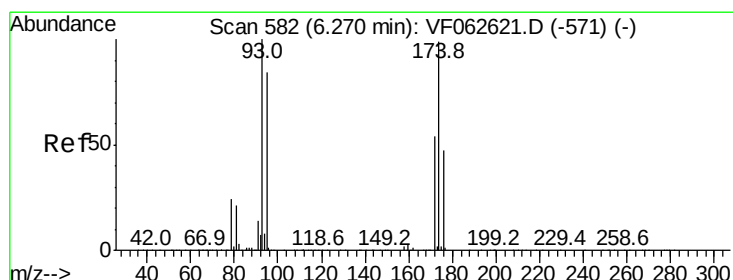
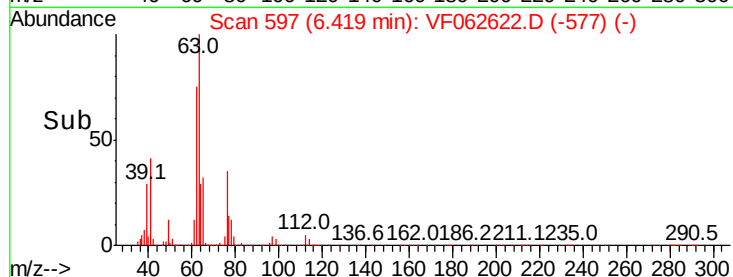
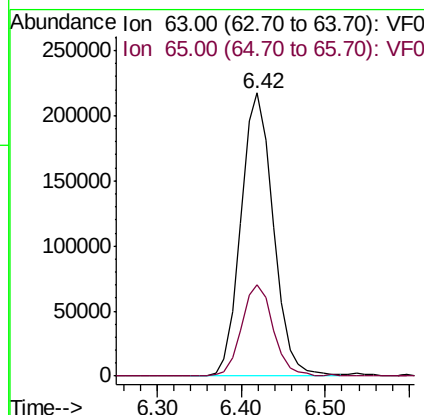
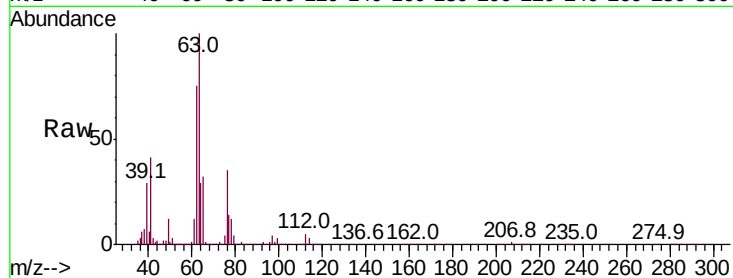
#45
 1,2-Dichloropropane
 Concen: 62.745 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.1	26.3	39.5

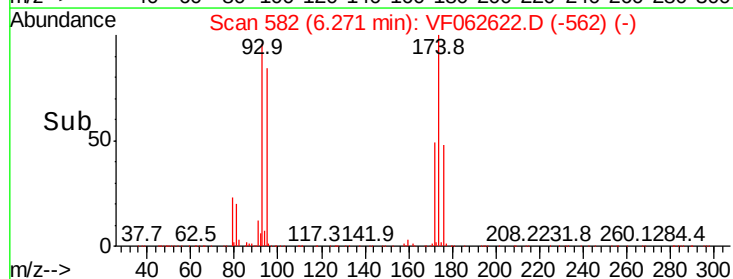
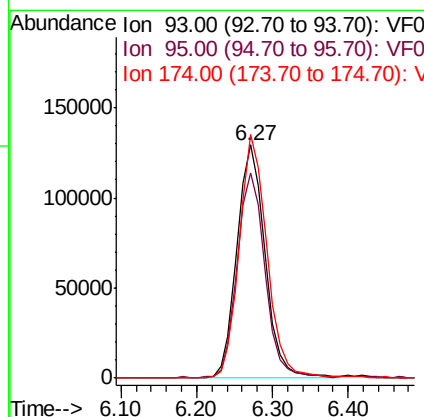
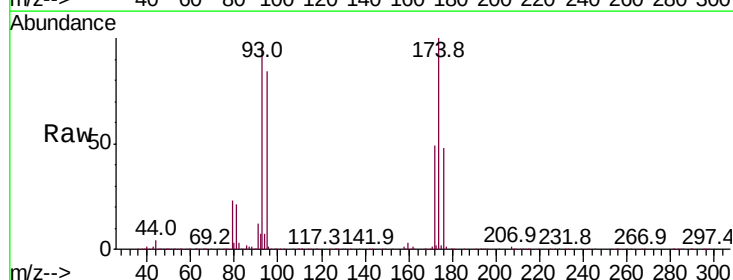
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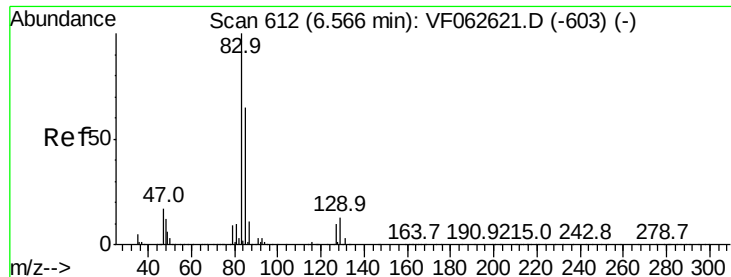
MMDadoda
 5/17/2019 4:20:13 PM



#46
 Dibromomethane
 Concen: 61.832 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
93	100		
95	87.8	67.4	101.2
174	104.5	79.4	119.2





#47

Bromodichloromethane

Concen: 62.428 ug/l

RT: 6.57 min Scan# 612

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

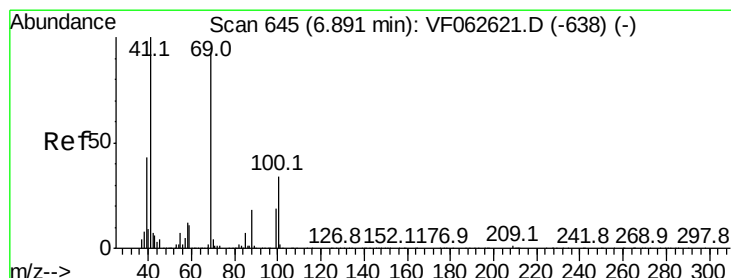
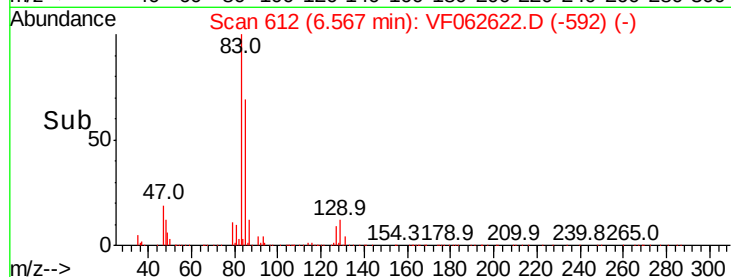
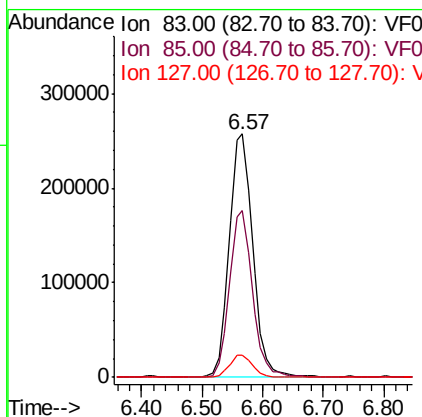
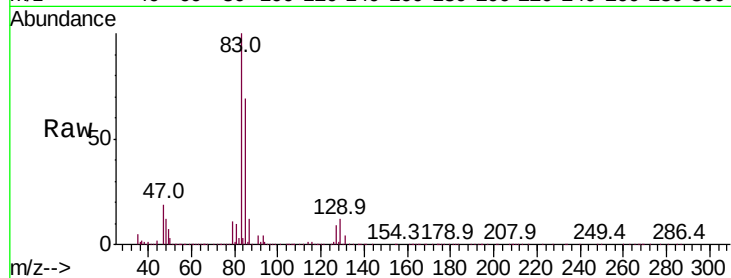
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	697509
Ion Ratio	Lower	Upper	
83	100		
85	68.7	52.0	78.0
127	9.2	7.7	11.5

Manual Integrations
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#48

Methyl methacrylate

Concen: 60.766 ug/l

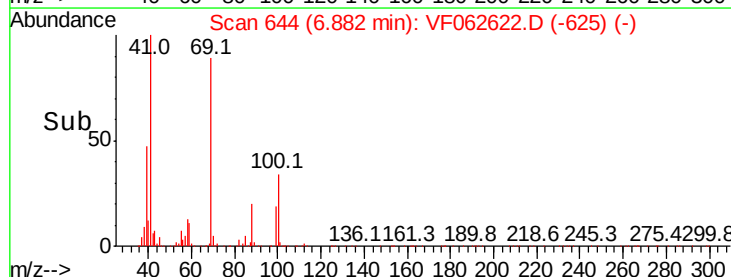
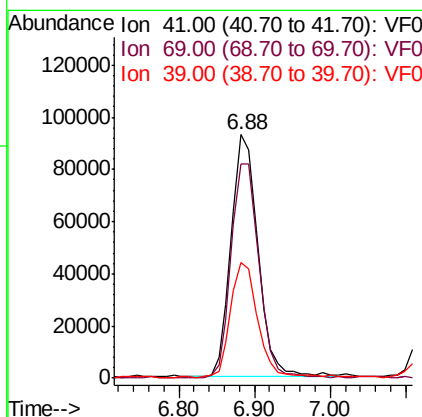
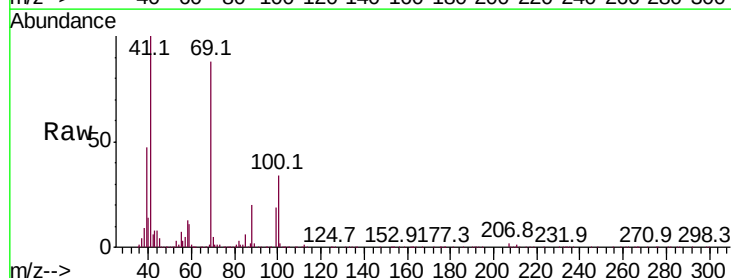
RT: 6.88 min Scan# 644

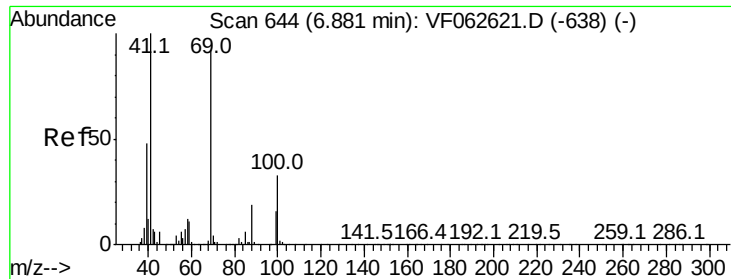
Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	41	Resp:	227510
Ion Ratio	Lower	Upper	
41	100		
69	87.9	74.2	111.2
39	47.5	34.2	51.4





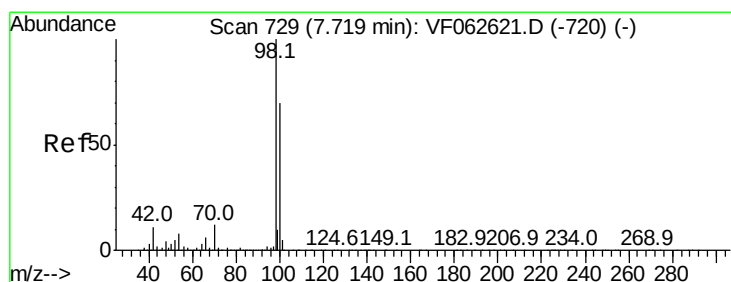
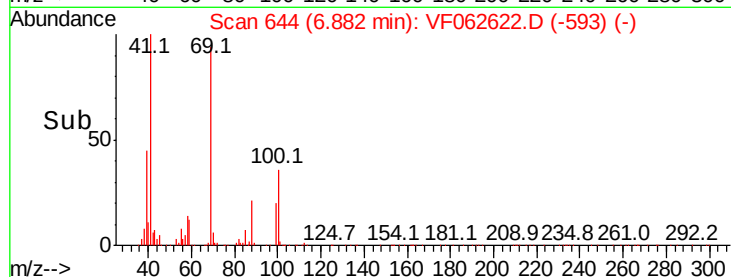
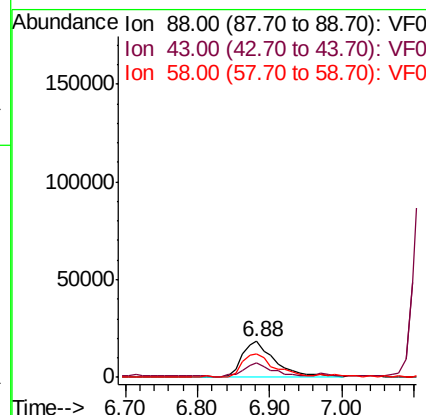
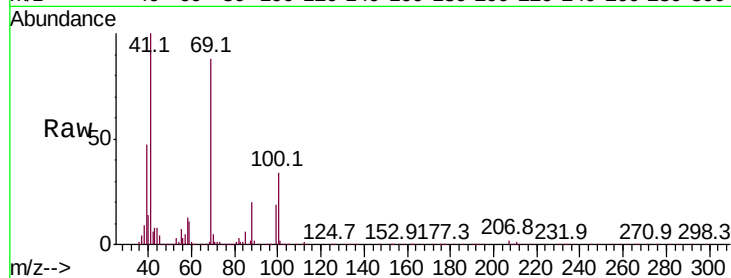
#49
1,4-Dioxane
Concen: 1240.998 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.1	30.0	45.0
58	65.3	51.1	76.7

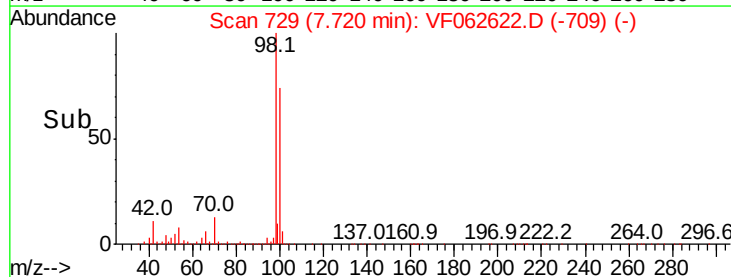
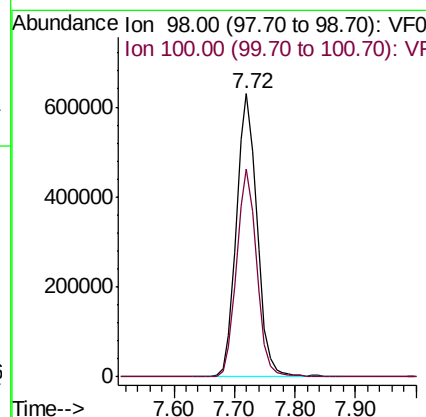
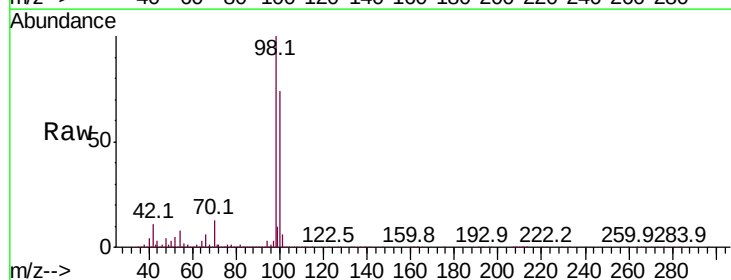
Manual Integrations
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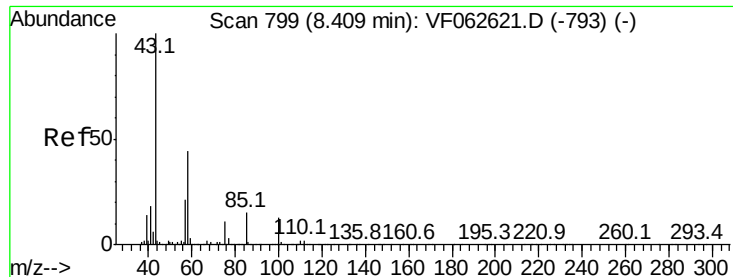
MMDadoda
5/17/2019 4:20:13 PM



#50
Toluene-d8
Concen: 62.103 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.6	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 295.533 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1447006

Ion Ratio Lower Upper

43 100

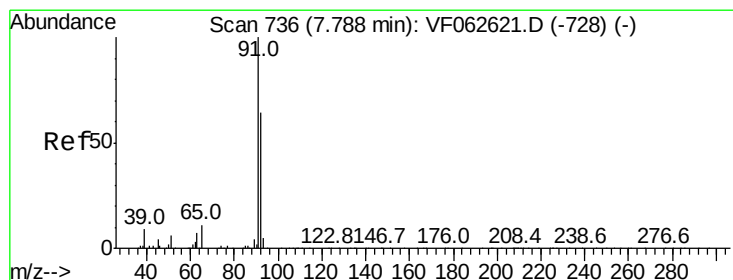
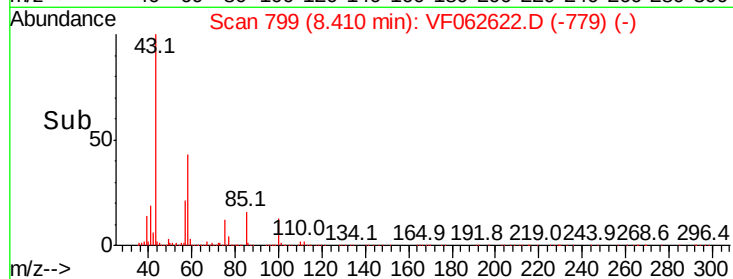
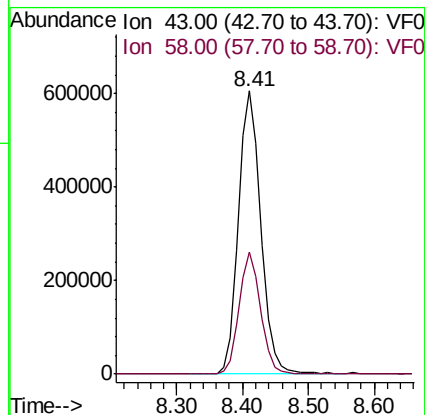
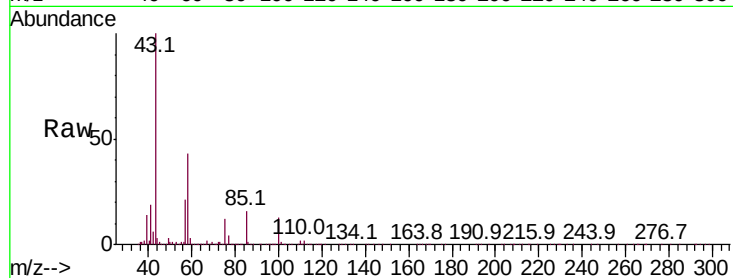
58 43.0 34.9 52.3

Manual Integrations

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5/17/2019 4:20:13 PM



#52

Toluene

Concen: 62.431 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062622.D

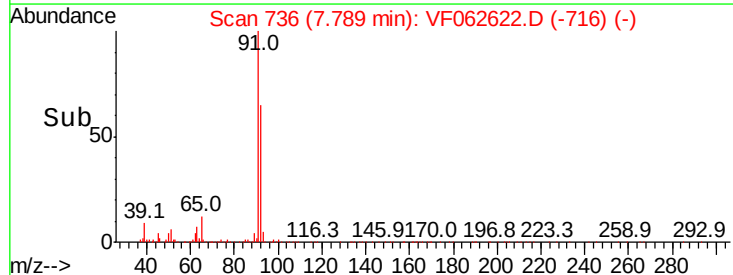
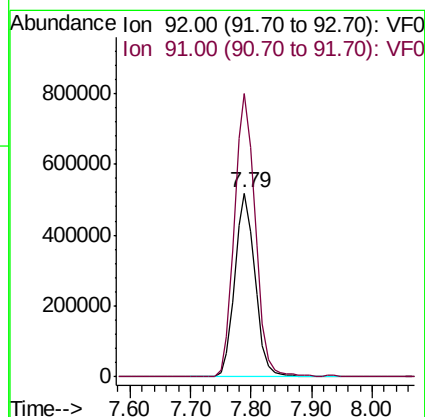
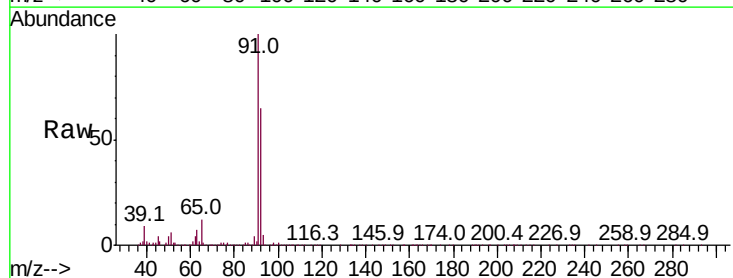
Acq: 16 May 2019 12:28

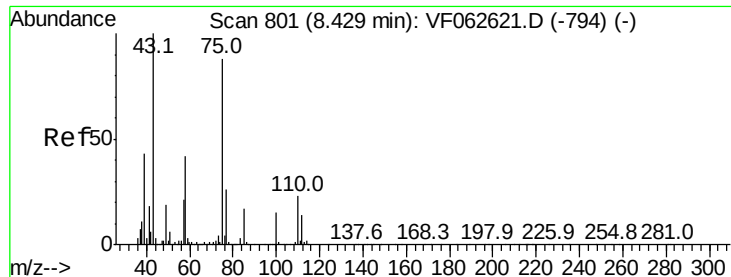
Tgt Ion: 92 Resp: 1207878

Ion Ratio Lower Upper

92 100

91 154.1 125.4 188.0





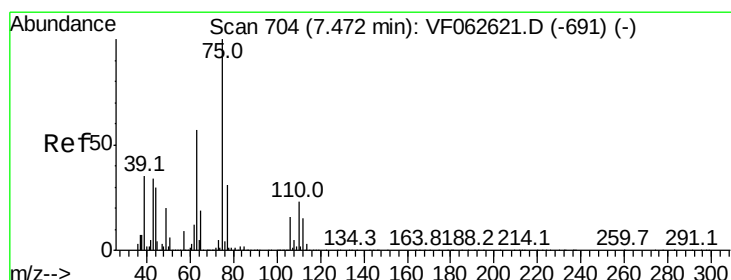
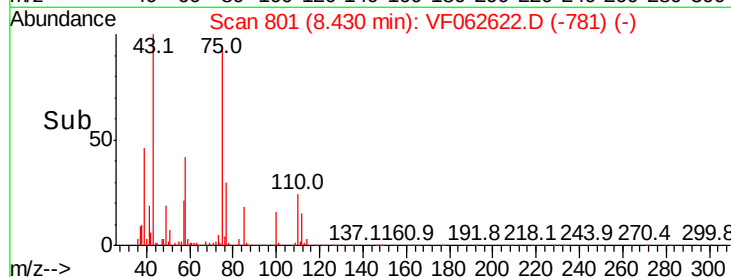
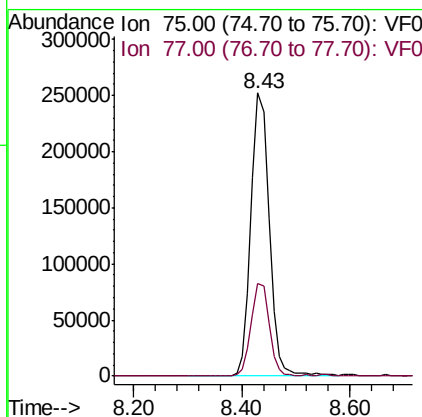
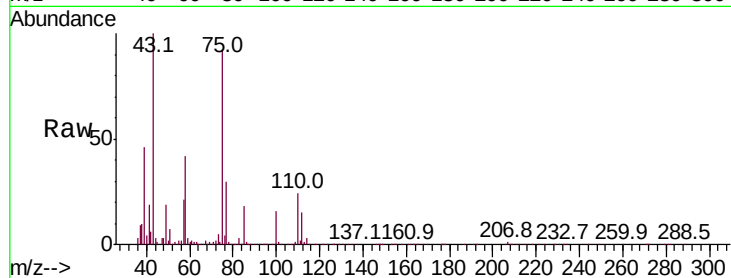
#53
t-1,3-Dichloropropene
Concen: 65.139 ug/l
RT: 8.43 min Scan# 801
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.2	36.4

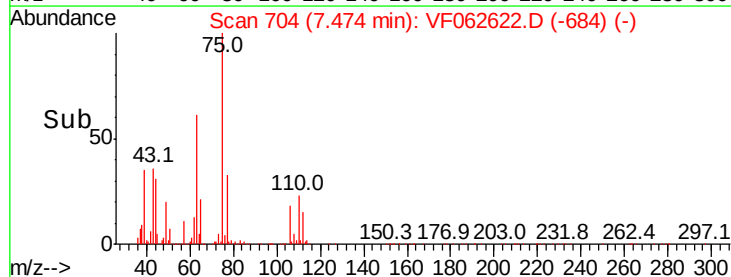
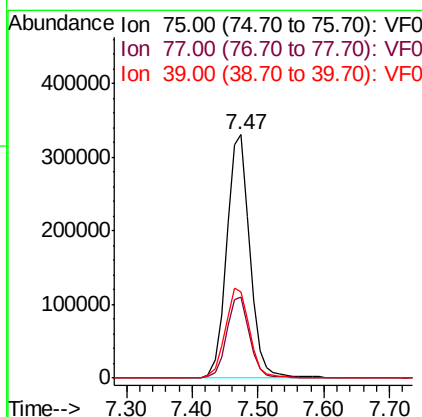
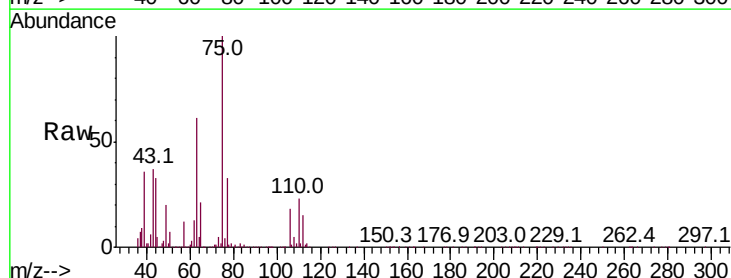
Manual Integrations
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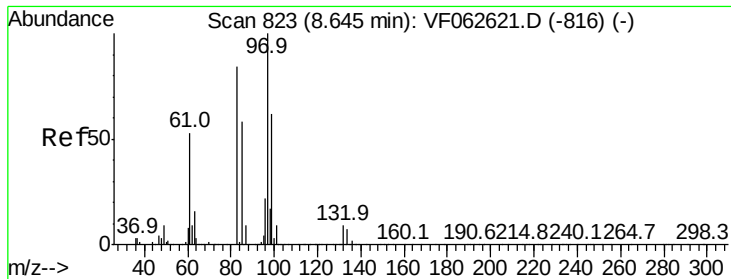
MMDadoda
5/17/2019 4:20:13 PM



#54
cis-1,3-Dichloropropene
Concen: 63.857 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.3	37.9
39	35.6	28.2	42.2





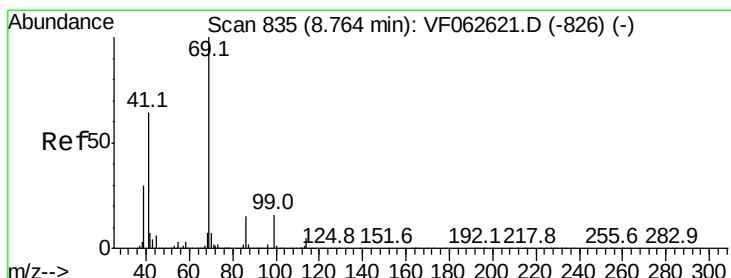
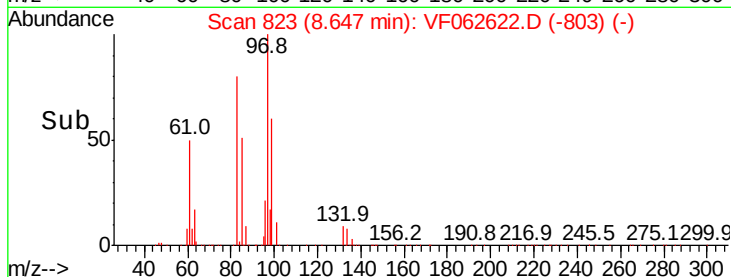
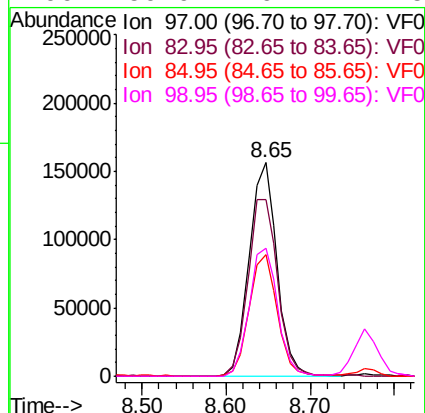
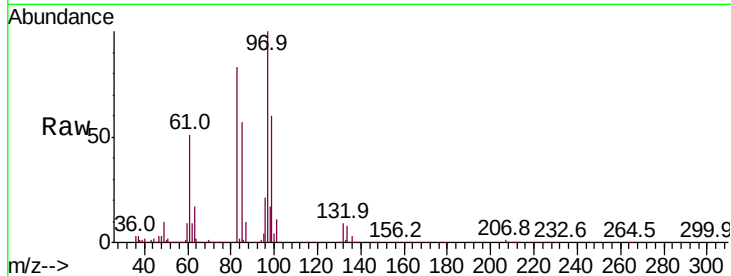
#55
 1,1,2-Trichloroethane
 Concen: 63.302 ug/l
 RT: 8.65 min Scan# 823
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
97	100	362626		
83	82.5	67.3	100.9	
85	56.7	46.6	69.8	
99	59.9	49.7	74.5	

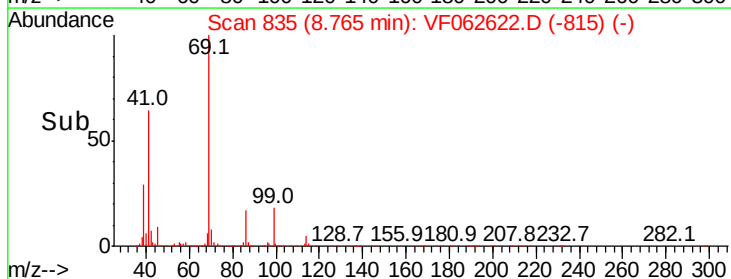
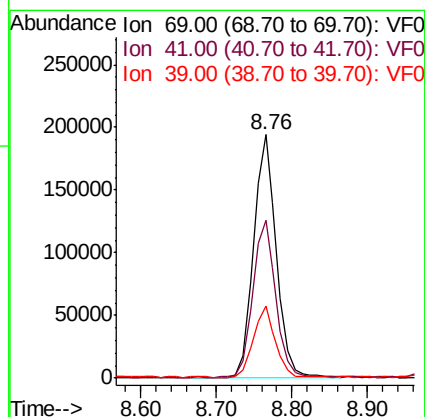
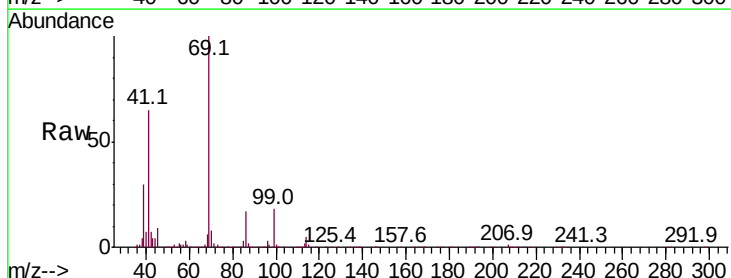
Manual Integrations
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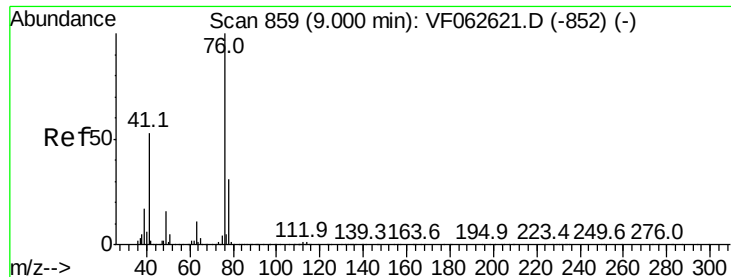
MMDadoda
 5/17/2019 4:20:13 PM



#56
 Ethyl methacrylate
 Concen: 59.874 ug/l
 RT: 8.76 min Scan# 835
 Delta R.T. 0.00 min
 Lab File: VF062622.D
 Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	408630		
41	64.7	51.4	77.2	
39	29.6	23.6	35.4	





#57

1,3-Dichloropropane

Concen: 61.552 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 600586

Ion Ratio Lower Upper

76 100

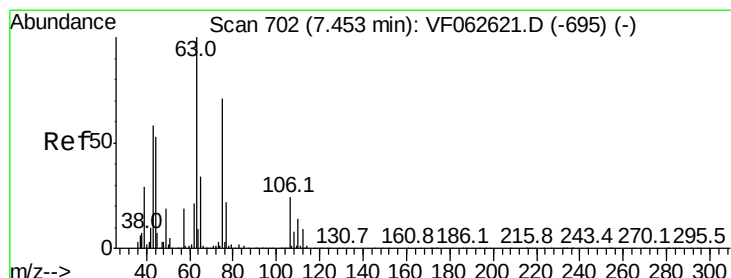
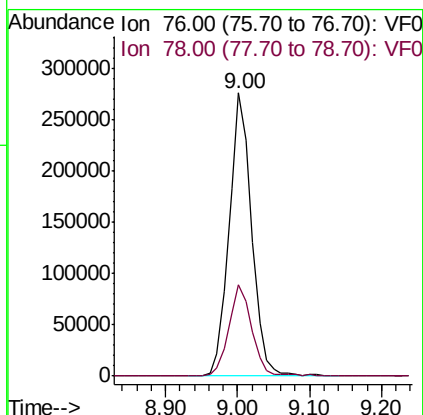
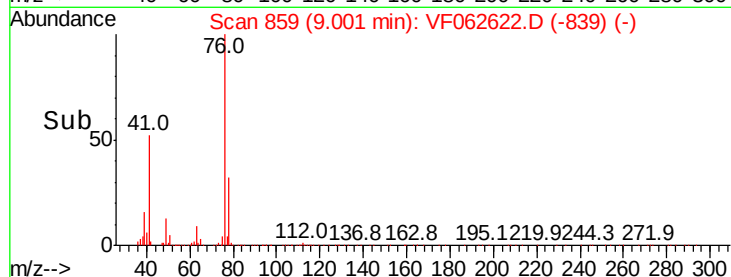
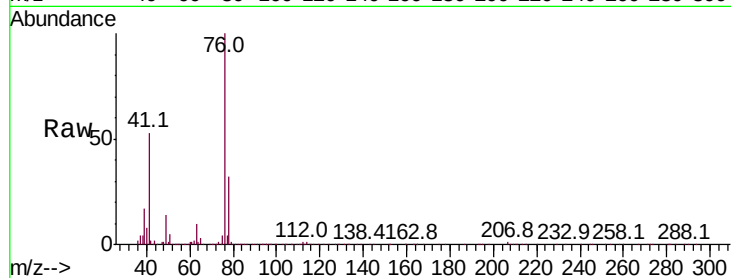
78 32.4 25.4 38.0

Manual Integrations

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MMDadoda

5/17/2019 4:20:13 PM



#58

2-Chloroethyl Vinyl ether

Concen: 338.120 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062622.D

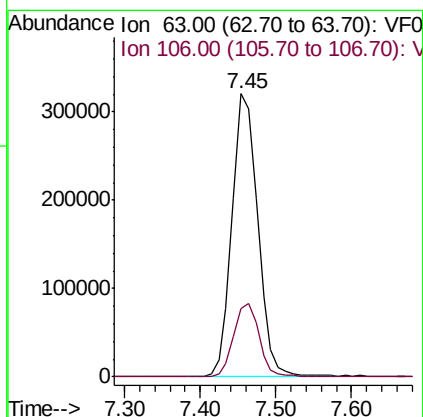
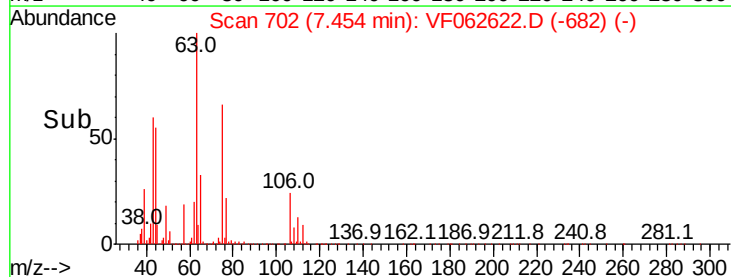
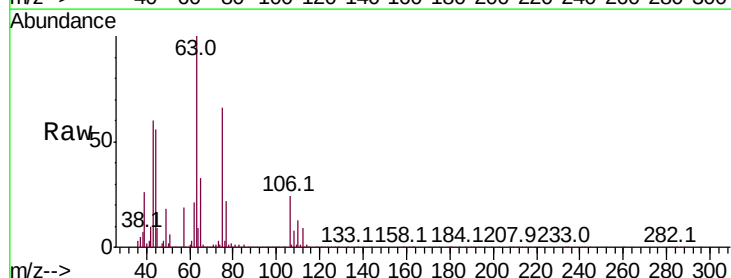
Acq: 16 May 2019 12:28

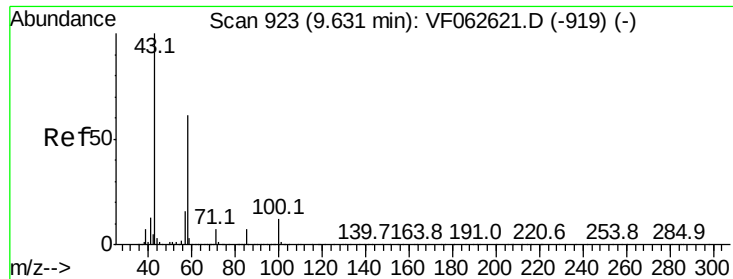
Tgt Ion: 63 Resp: 751124

Ion Ratio Lower Upper

63 100

106 24.1 19.1 28.7





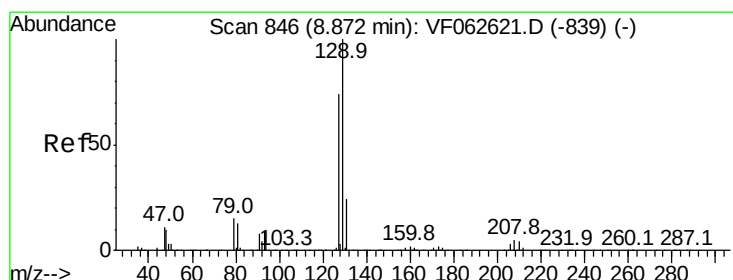
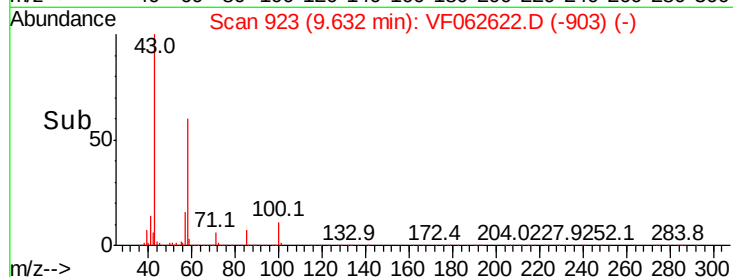
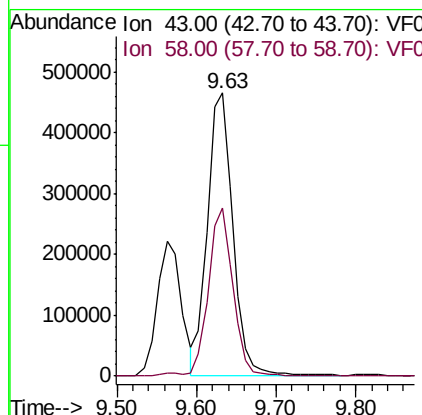
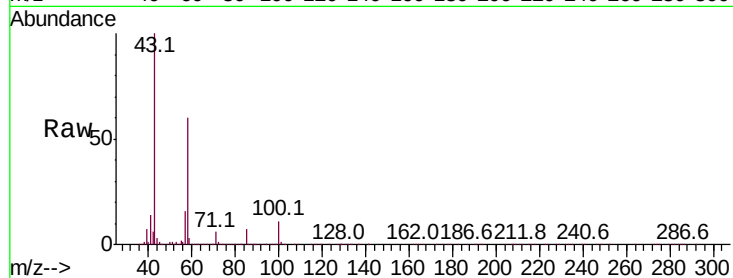
#59
2-Hexanone
Concen: 290.161 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 43 Resp: 1038737
Ion Ratio Lower Upper
43 100
58 59.6 28.1 84.4

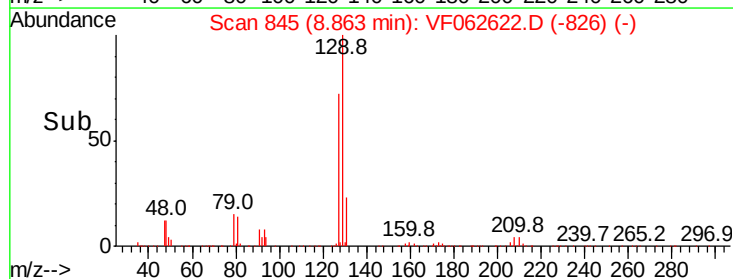
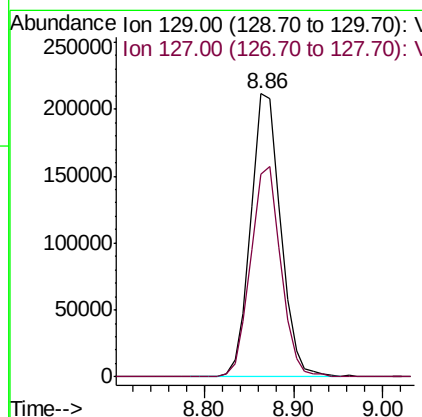
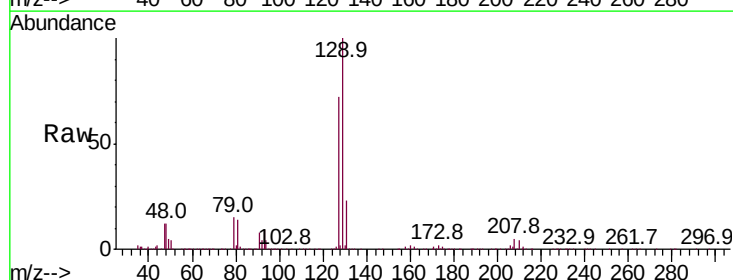
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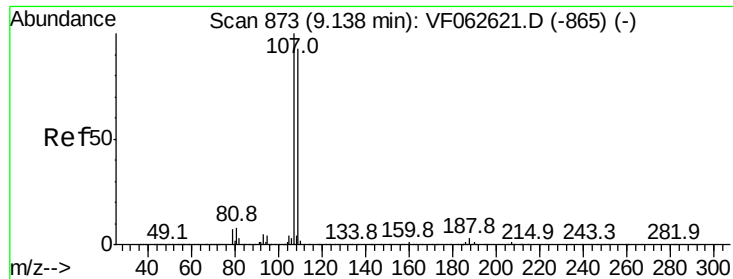
MMDadoda
5/17/2019 4:20:13 PM



#60
Dibromochloromethane
Concen: 65.668 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion: 129 Resp: 490279
Ion Ratio Lower Upper
129 100
127 71.8 37.2 111.6





#61

1,2-Dibromoethane

Concen: 65.879 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 400841

Ion Ratio Lower Upper

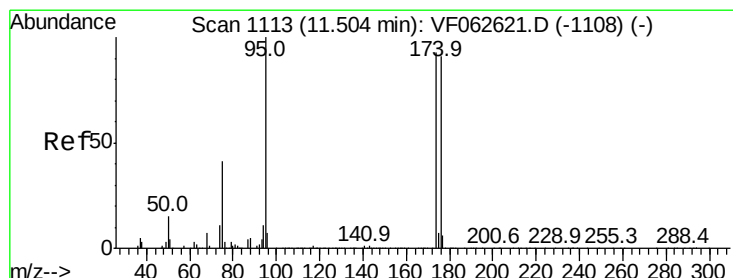
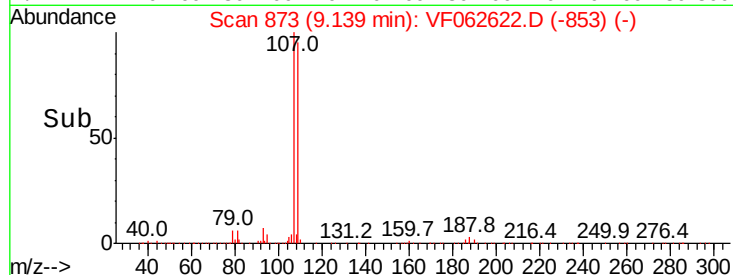
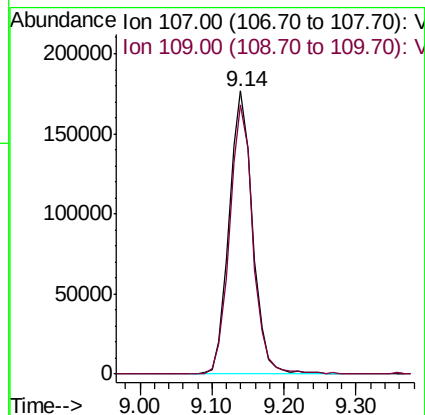
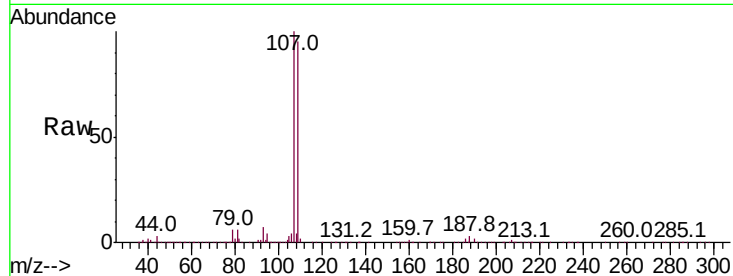
107 100

109 95.2 74.8 112.2

Manual Integrations
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MMDadoda

5/17/2019 4:20:13 PM



#62

4-Bromofluorobenzene

Concen: 62.628 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

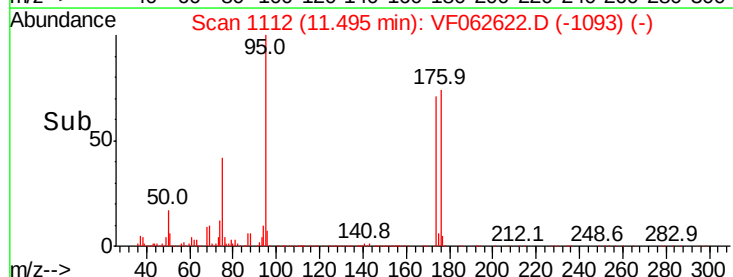
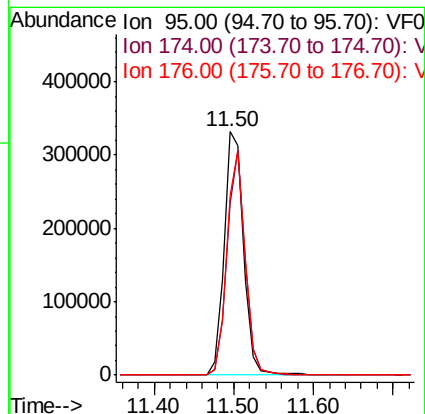
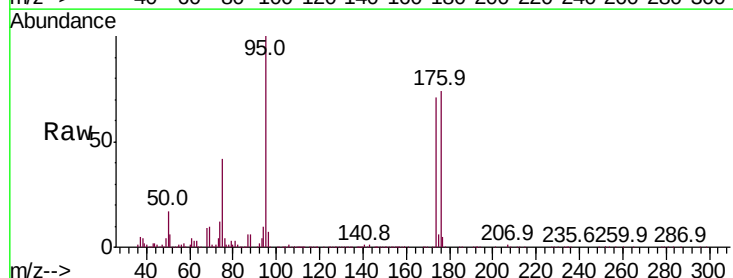
Tgt Ion: 95 Resp: 573500

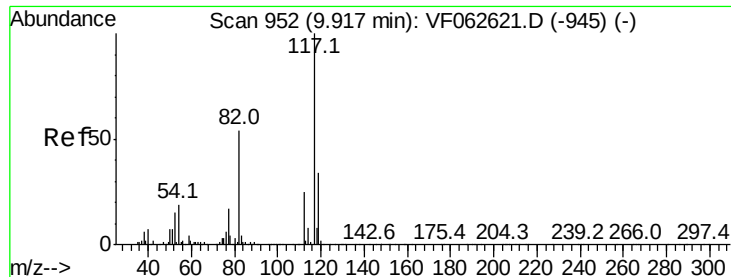
Ion Ratio Lower Upper

95 100

174 70.8 0.0 185.6

176 73.9 0.0 182.4





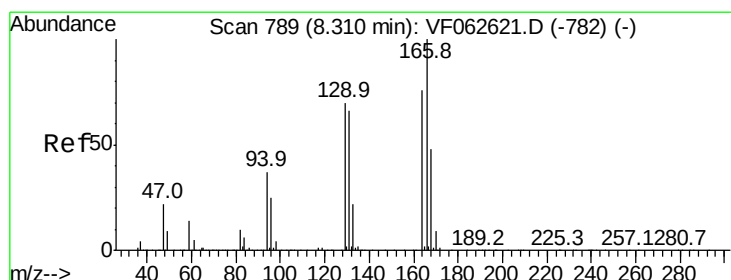
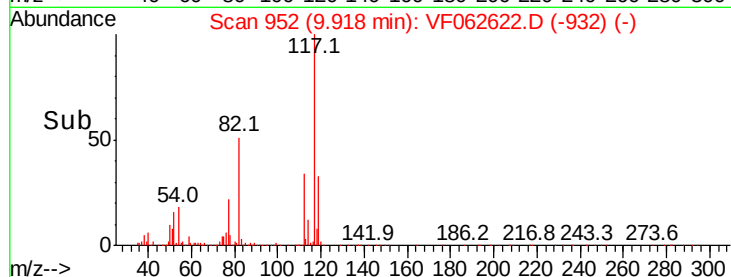
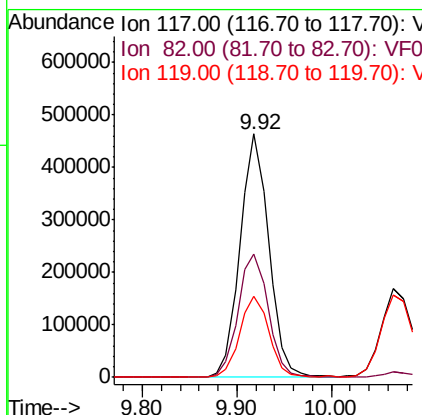
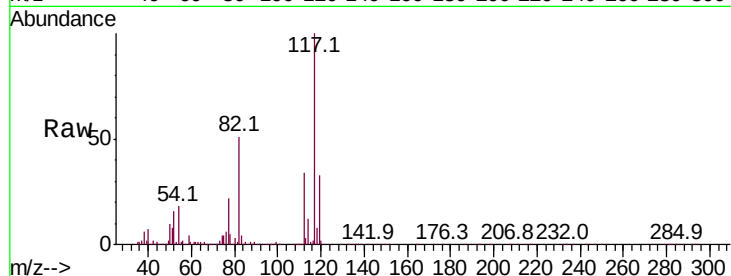
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	979745		
82	50.6		43.3	64.9
119	33.4		27.4	41.0

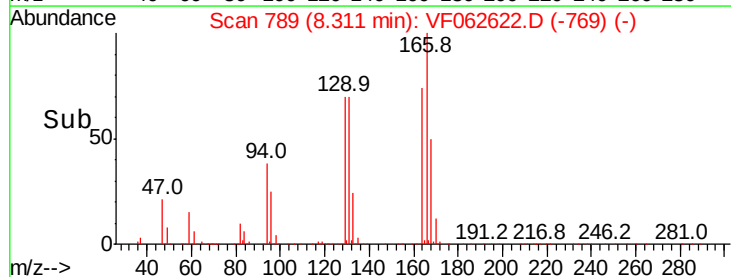
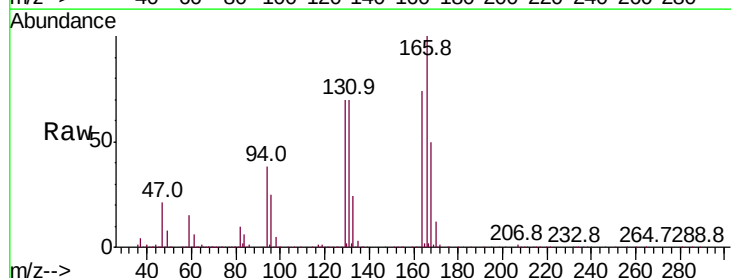
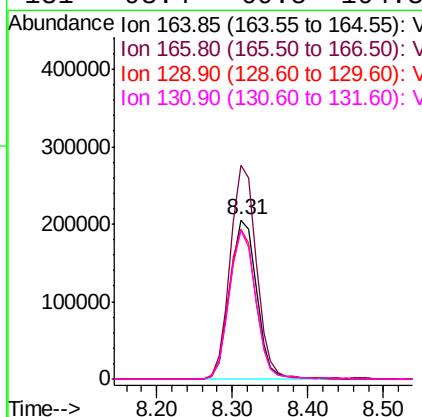
Manual Integrations
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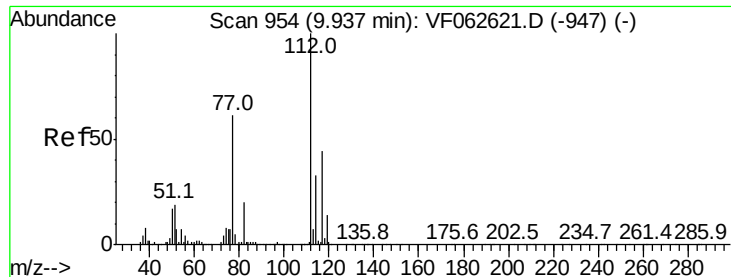
MMDadoda
5/17/2019 4:20:13 PM



#64
Tetrachloroethene
Concen: 64.938 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	504033		
166	134.3		105.5	158.3
129	93.8		73.8	110.6
131	93.4		69.5	104.3





#65

Chlorobenzene

Concen: 64.853 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:112 Resp: 1247971

Ion Ratio Lower Upper

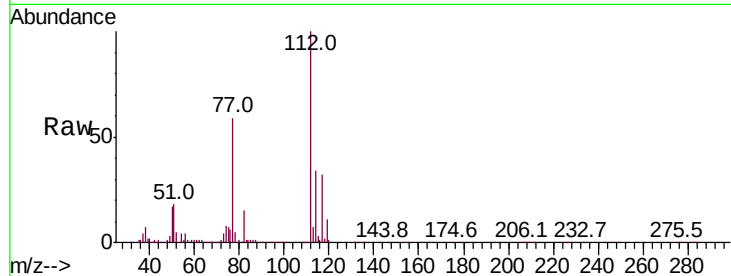
112 100

114 33.6 26.8 40.2

Manual Integrations
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.94

600000

500000

400000

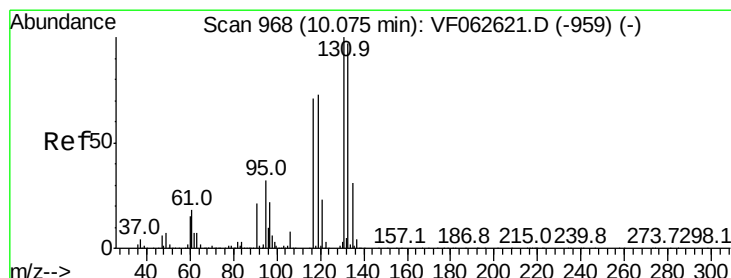
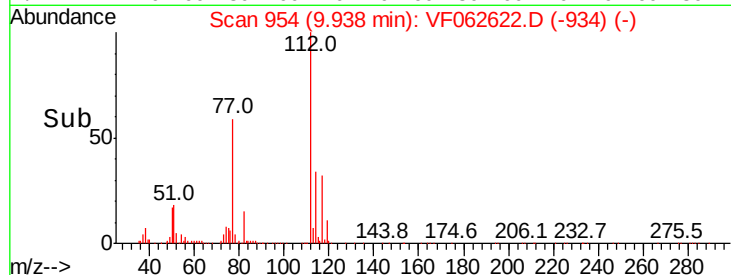
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 64.995 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

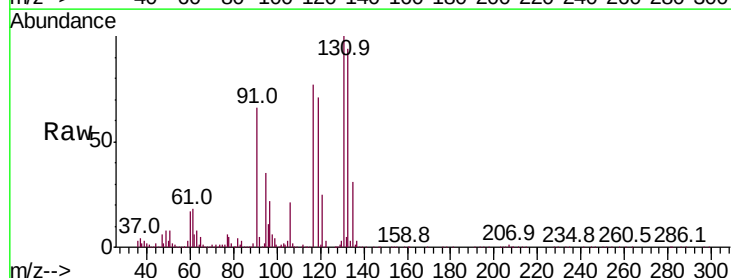
Tgt Ion:131 Resp: 502093

Ion Ratio Lower Upper

131 100

133 94.3 48.5 145.5

119 70.9 36.8 110.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

300000

250000

200000

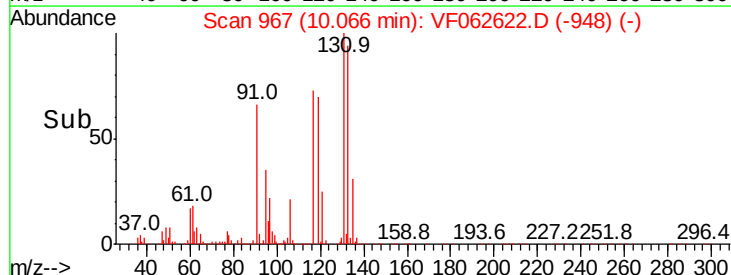
150000

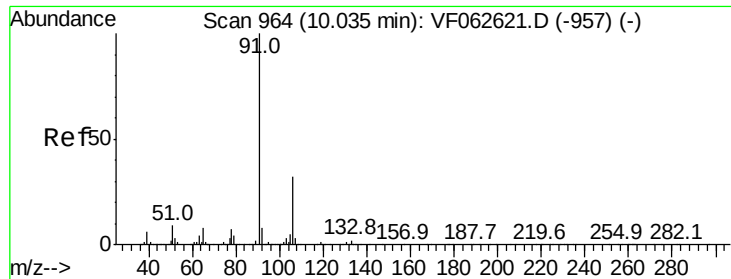
100000

50000

0

Time-->





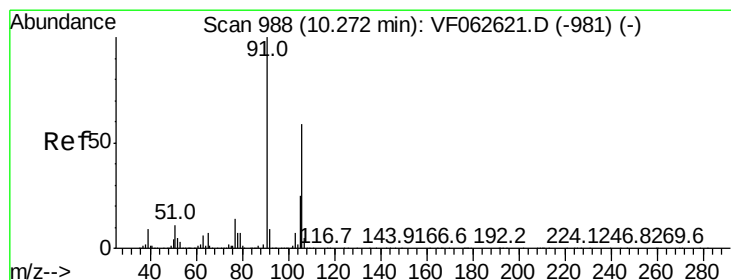
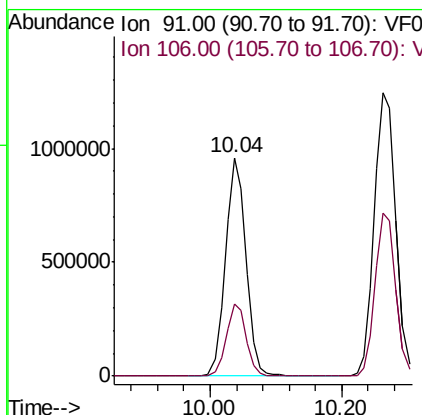
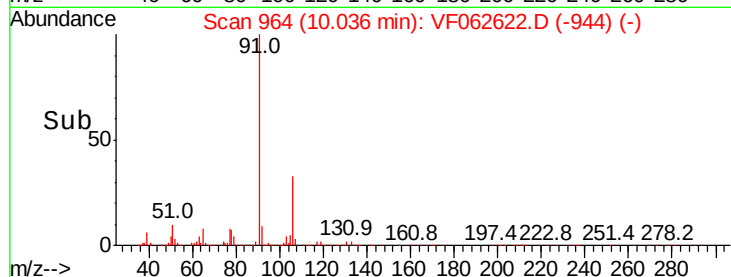
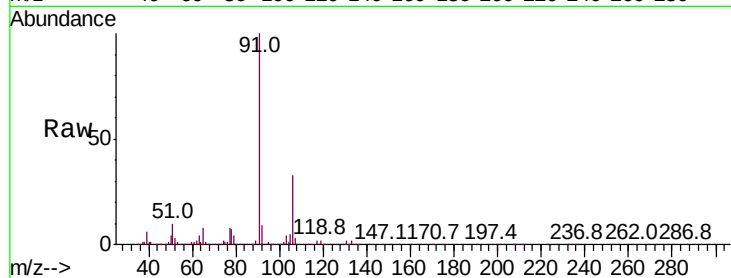
#67
Ethyl Benzene
Concen: 62.587 ug/l
RT: 10.04 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 91 Resp: 2092251
Ion Ratio Lower Upper
91 100
106 33.0 25.8 38.8

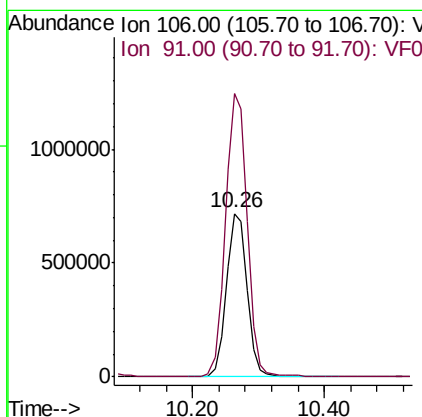
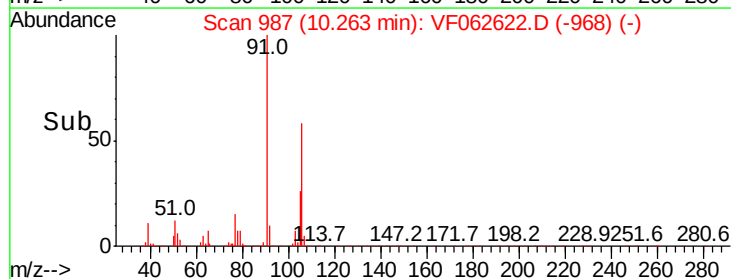
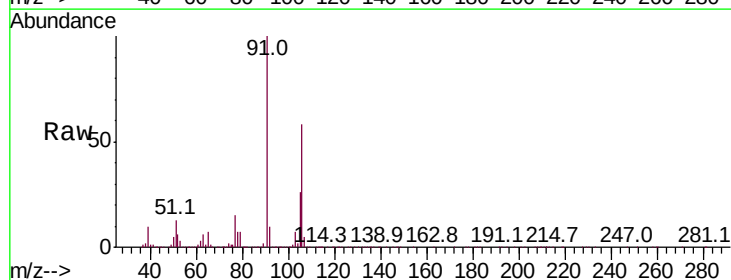
Manual Integrations
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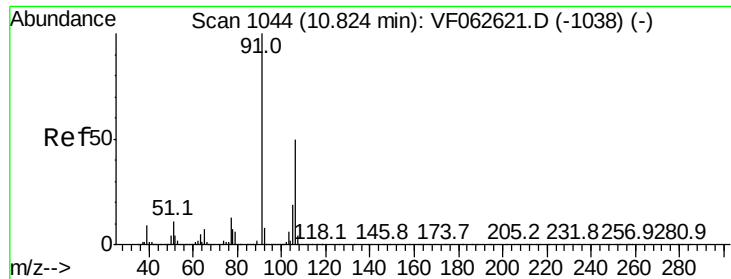
MMDadoda
5/17/2019 4:20:13 PM



#68
m/p-Xylenes
Concen: 125.532 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion: 106 Resp: 1577223
Ion Ratio Lower Upper
106 100
91 173.4 136.9 205.3





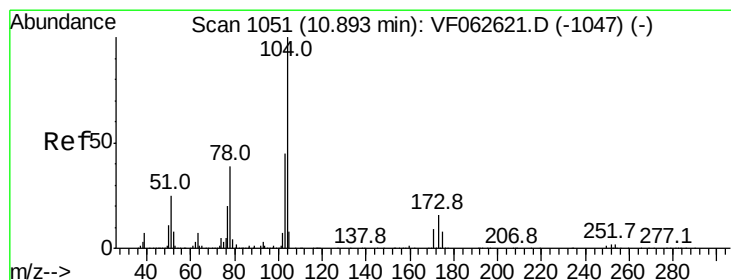
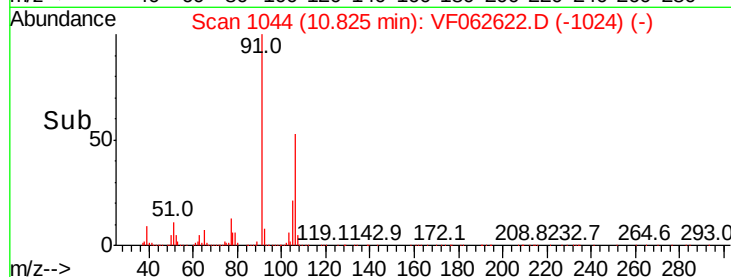
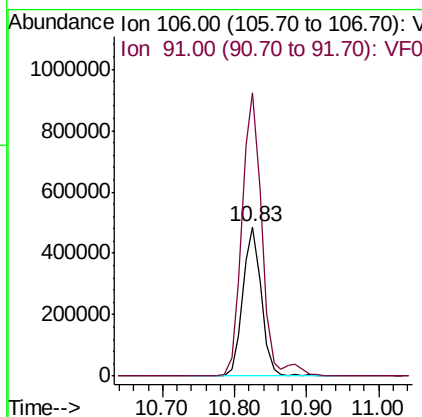
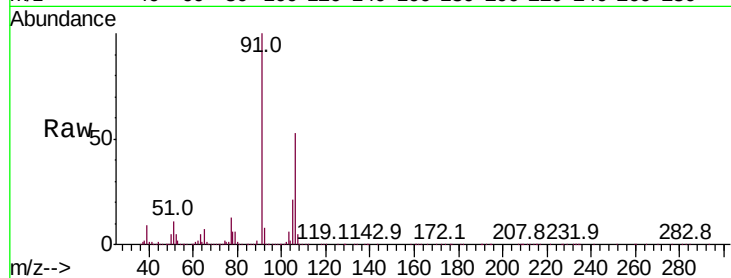
#69
o-Xylene
Concen: 67.858 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampled :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
106	100		
91	189.4	100.2	300.5

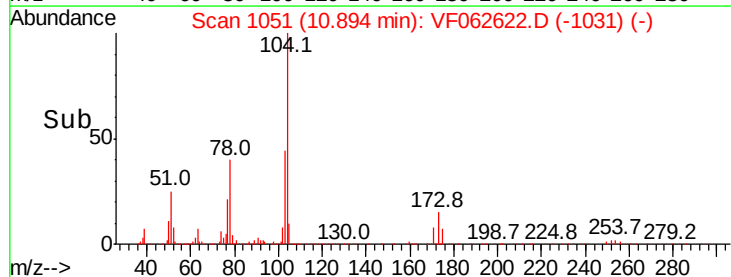
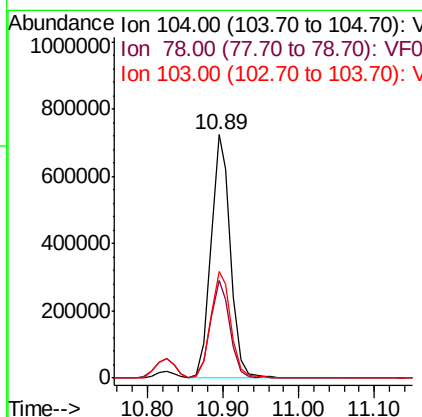
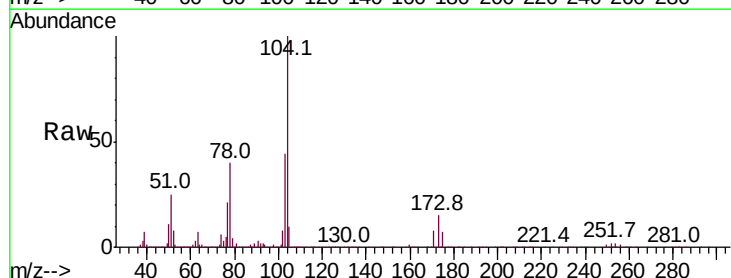
Manual Integrations
APPROVED

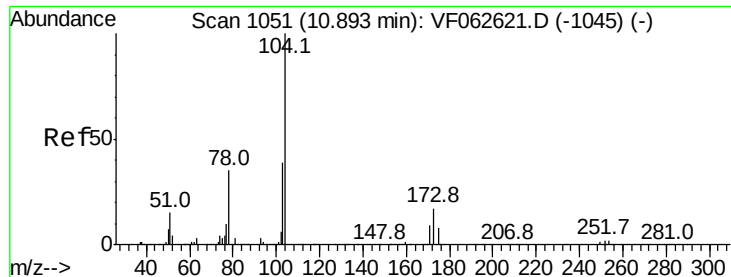
MMDadoda
5/17/2019 4:20:13 PM



#70
Styrene
Concen: 66.374 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.1	31.9	47.9
103	43.8	36.1	54.1





#71

Bromoform

Concen: 72.634 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

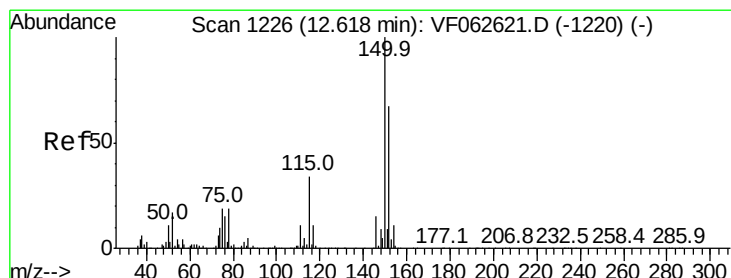
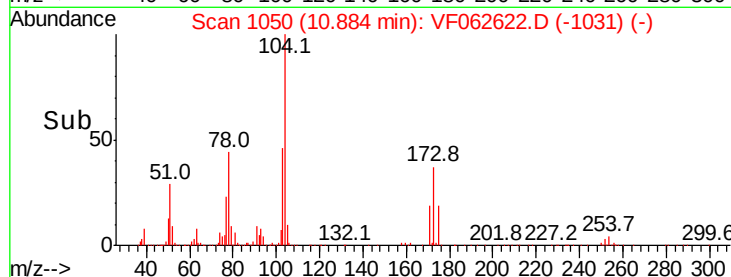
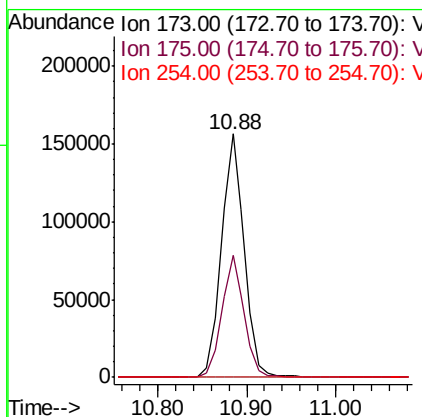
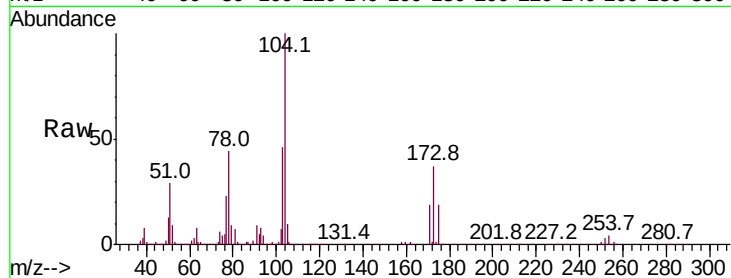
ClientSampleId :

VSTDIC075

Tot Ion:	173	Resp:	281022
Ion Ratio	Lower	Upper	
173	100		
175	49.9	25.3	75.9
254	0.3	0.2	0.2#

Manual Integrations
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5/17/2019 4:20:13 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

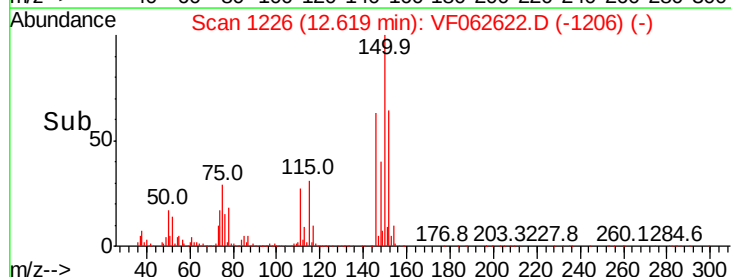
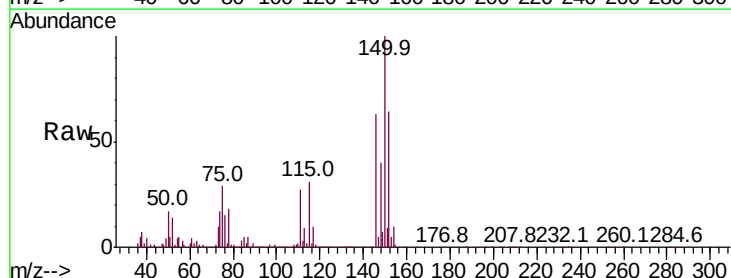
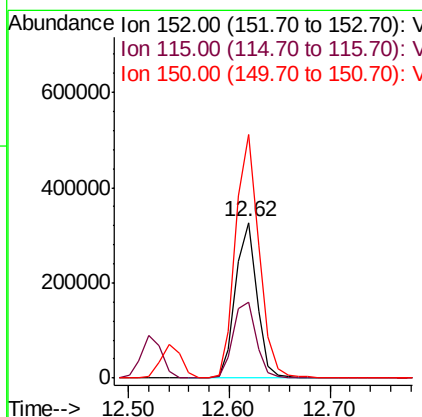
RT: 12.62 min Scan# 1226

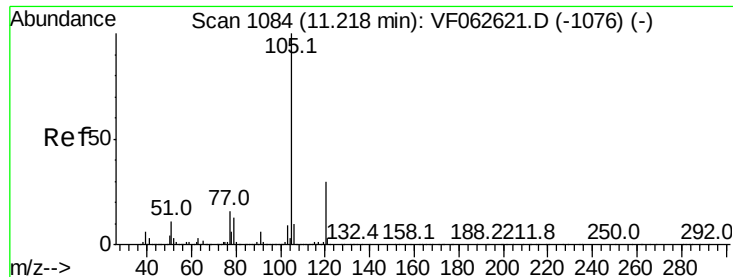
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	152	Resp:	483656
Ion Ratio	Lower	Upper	
152	100		
115	48.6	25.2	75.6
150	156.8	0.0	306.2





#73

Isopropylbenzene

Concen: 63.282 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampled :

VSTDIC075

Tot Ion:105 Resp: 2193637

Ion Ratio Lower Upper

105 100

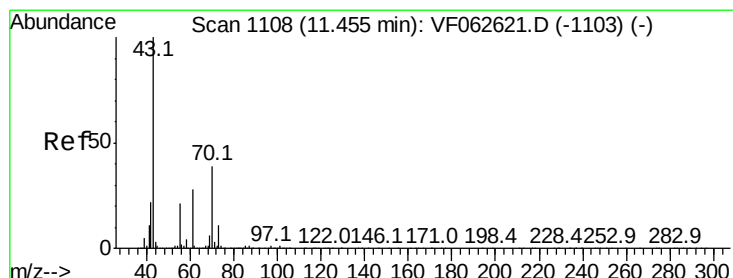
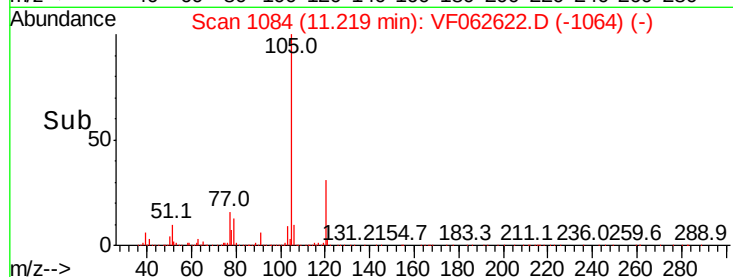
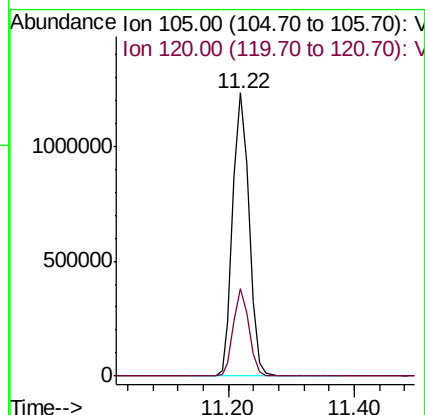
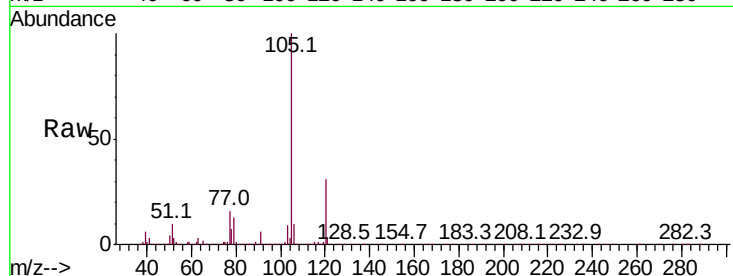
120 30.9 14.8 44.4

Manual Integrations

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5/17/2019 4:20:13 PM



#74

N-ethyl acetate

Concen: 55.338 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion: 43 Resp: 591788

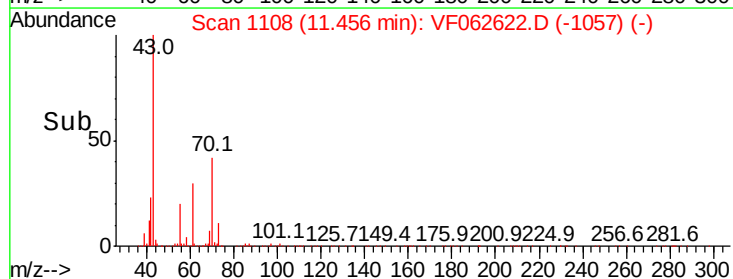
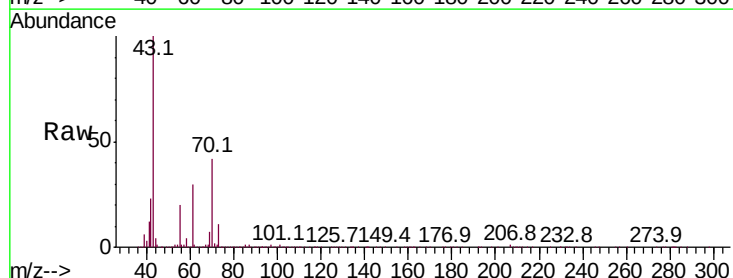
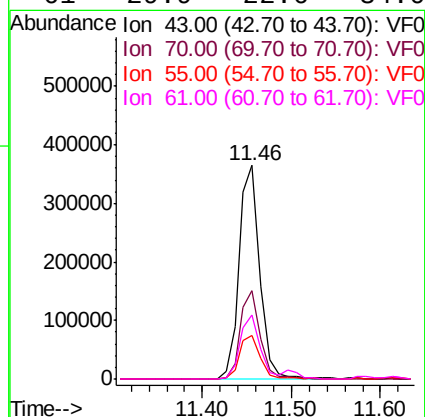
Ion Ratio Lower Upper

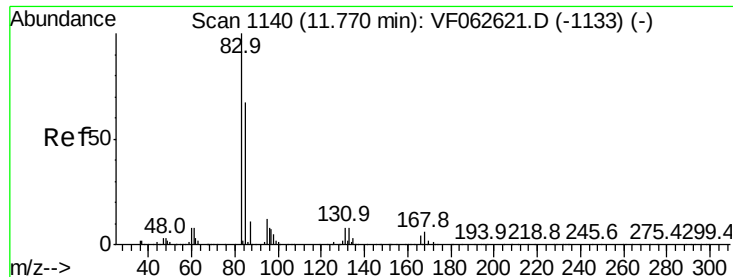
43 100

70 41.6 30.9 46.3

55 20.5 17.0 25.4

61 29.9 22.6 34.0





#75

1,1,2,2-Tetrachloroethane

Concen: 63.532 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

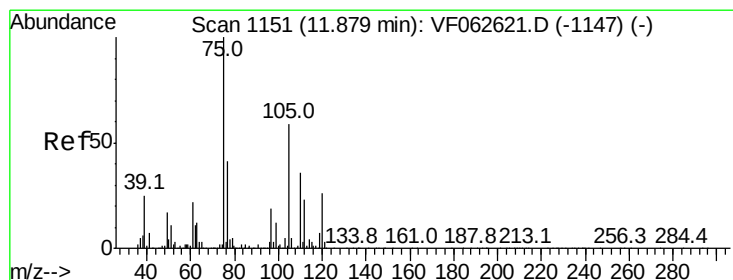
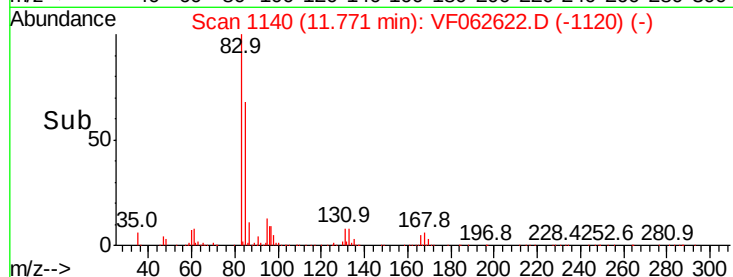
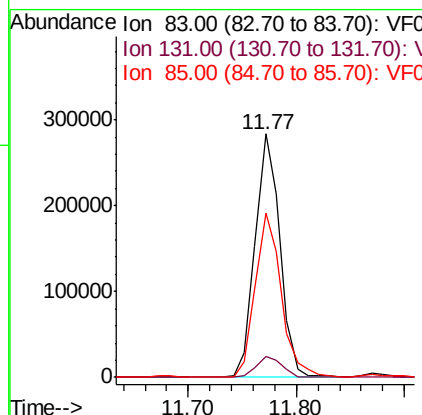
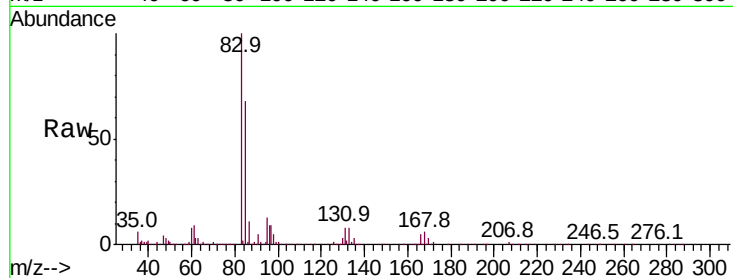
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	450072
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.0	12.0
85	67.5	33.5	100.5

Manual Integrations
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5/17/2019 4:20:13 PM



#76

1,2,3-Trichloropropane

Concen: 63.841 ug/l

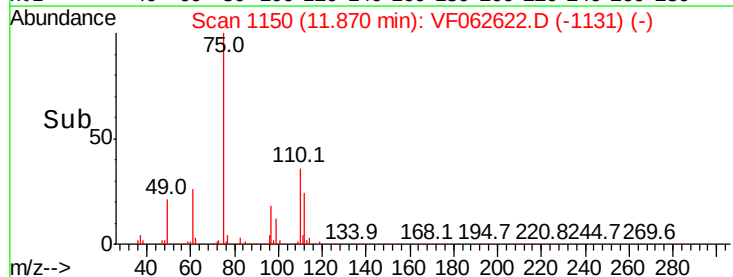
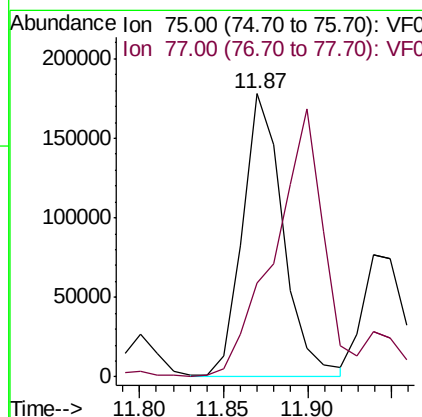
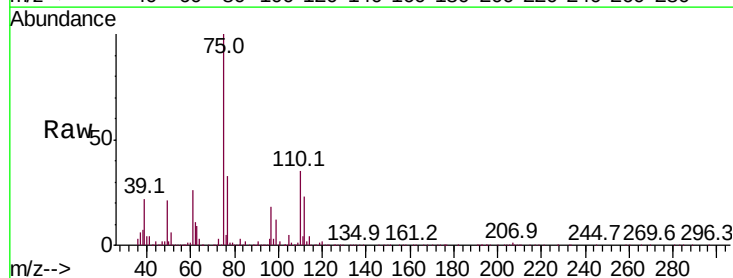
RT: 11.87 min Scan# 1150

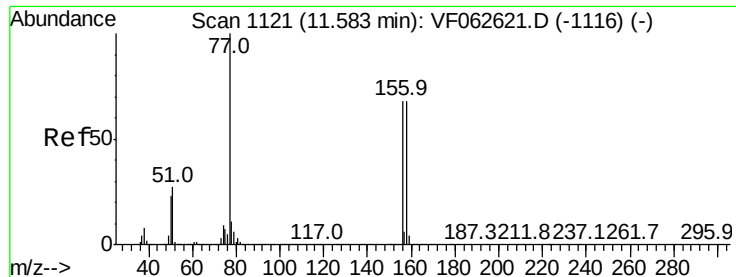
Delta R.T. -0.01 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	75	Resp:	297162
Ion Ratio	Lower	Upper	
75	100		
77	33.3	20.6	61.8





#77

Bromobenzene

Concen: 66.345 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 156 Resp: 571659

Ion Ratio Lower Upper

156 100

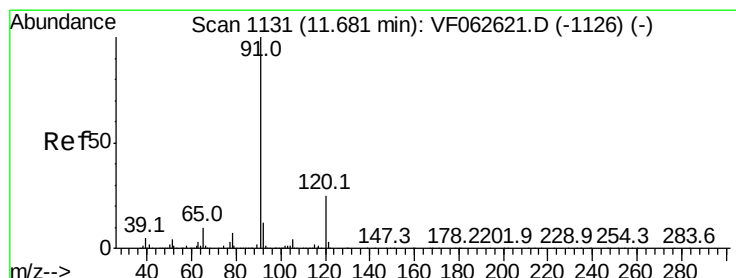
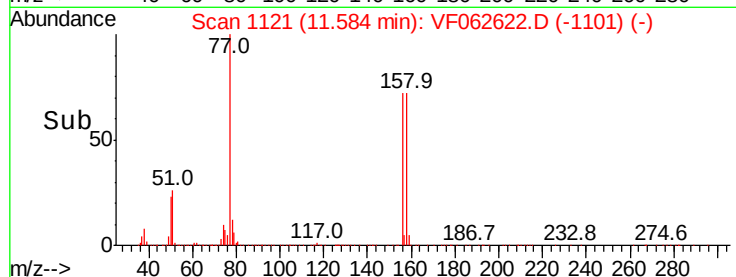
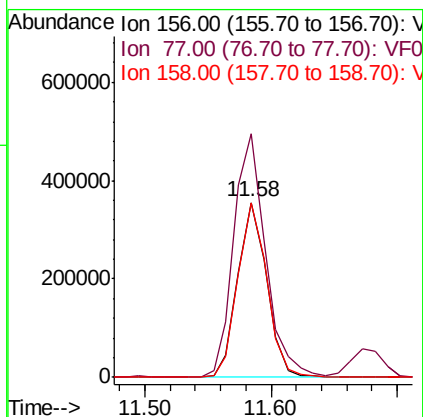
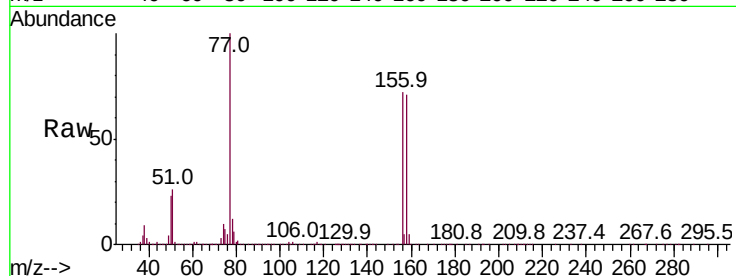
77 139.3 73.6 220.8

158 99.5 49.6 148.8

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#78

n-propylbenzene

Concen: 62.495 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062622.D

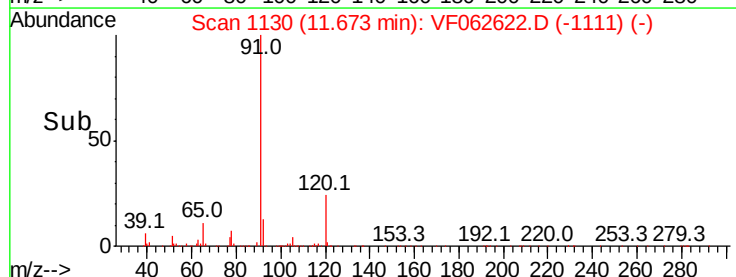
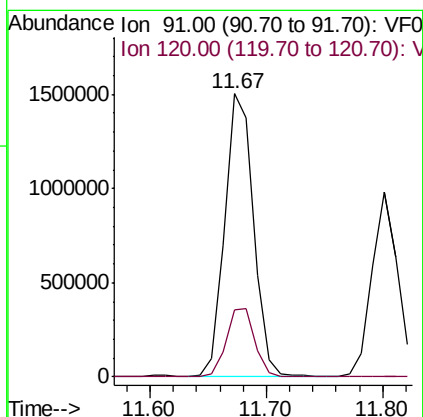
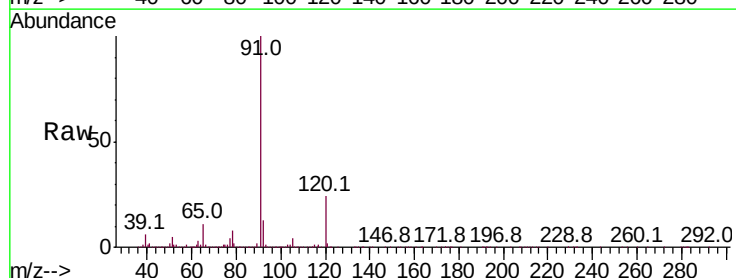
Acq: 16 May 2019 12:28

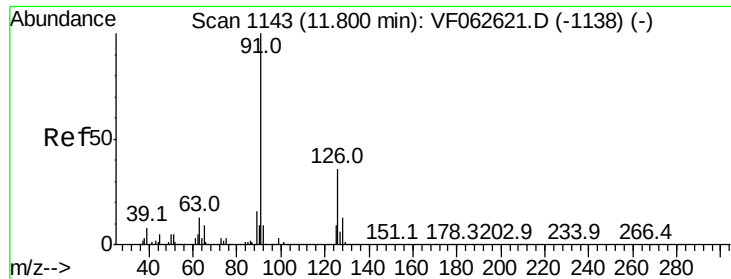
Tgt Ion: 91 Resp: 2563792

Ion Ratio Lower Upper

91 100

120 23.8 12.7 38.1





#79

2-Chlorotoluene

Concen: 64.871 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 1499815

Ion Ratio Lower Upper

91 100

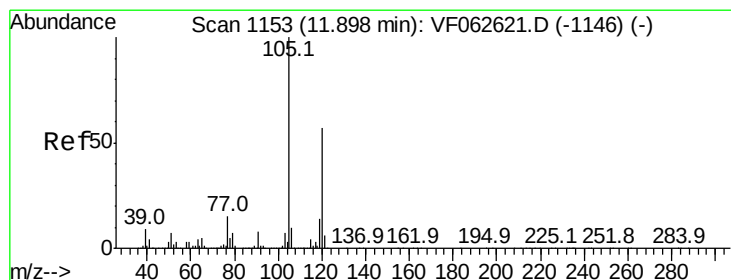
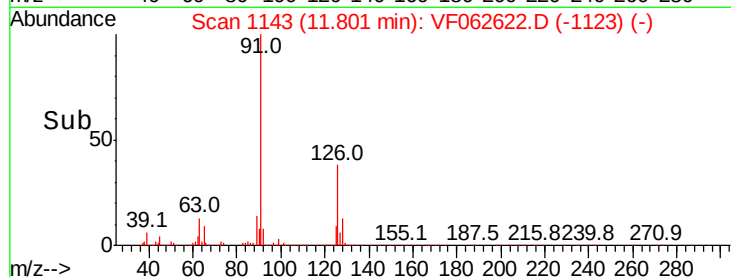
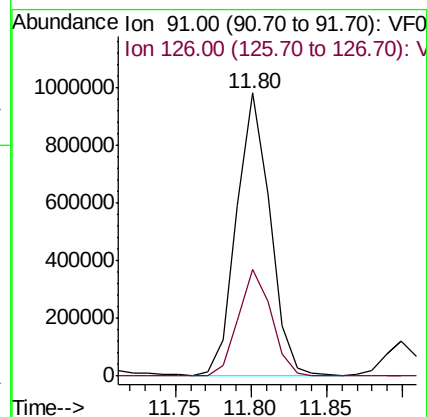
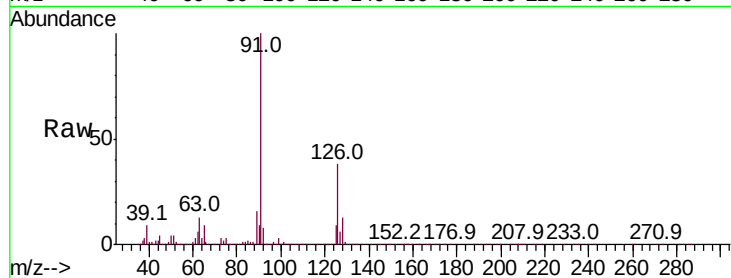
126 37.8 18.1 54.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 63.288 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062622.D

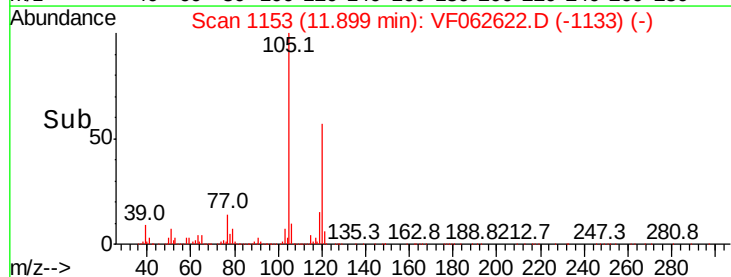
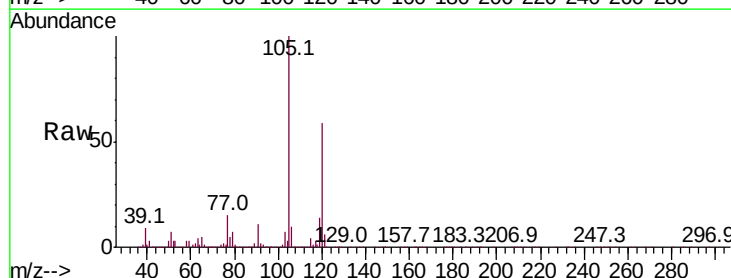
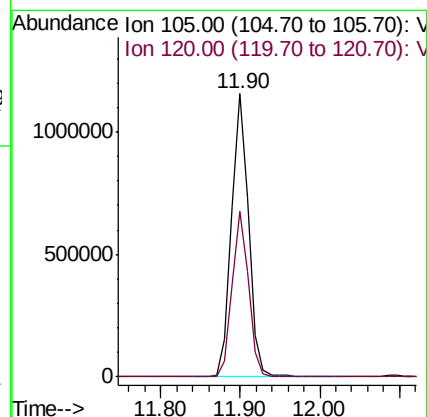
Acq: 16 May 2019 12:28

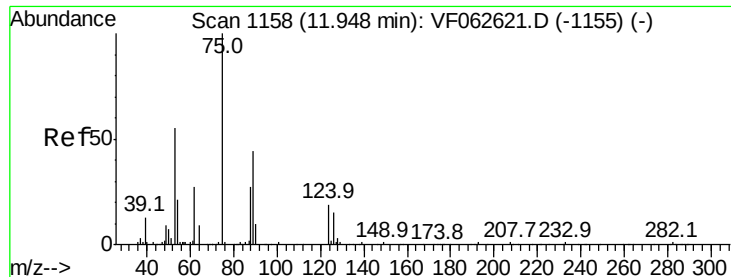
Tgt Ion: 105 Resp: 1759132

Ion Ratio Lower Upper

105 100

120 58.6 28.7 86.3





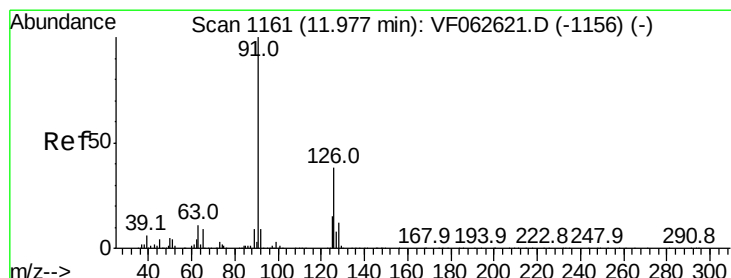
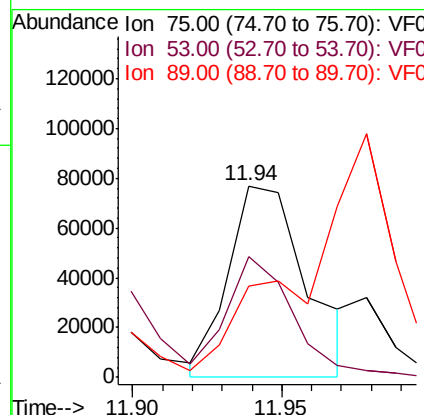
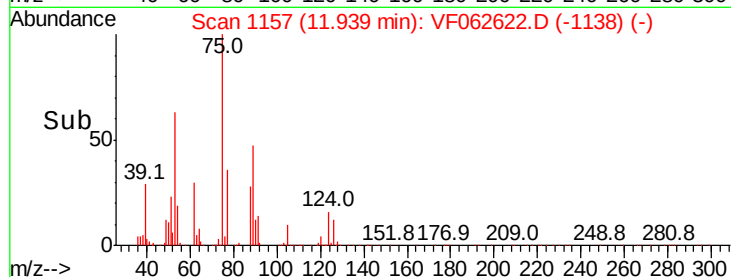
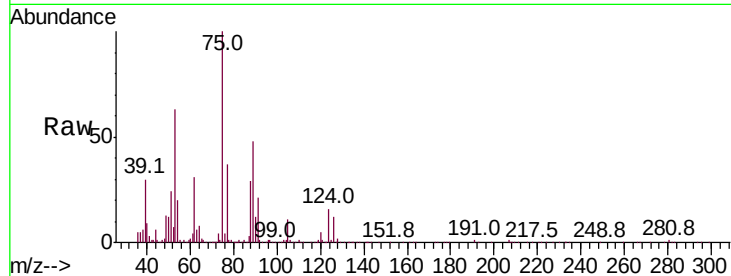
#81
trans-1,4-Dichloro-2-butene
Concen: 54.459 ug/l m
RT: 11.94 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
53	63.3	46.9	70.3
89	47.7	36.4	54.6

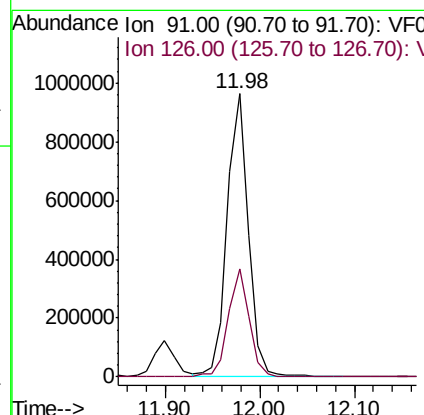
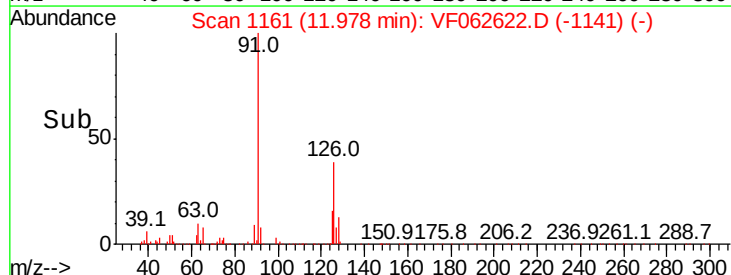
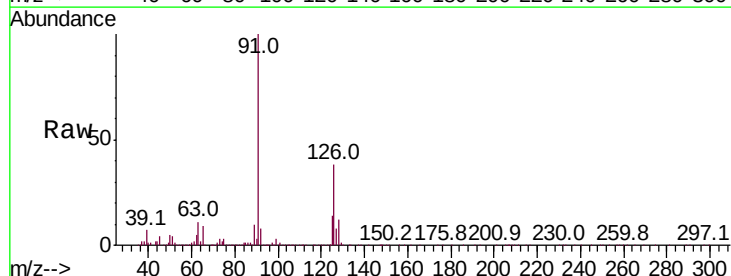
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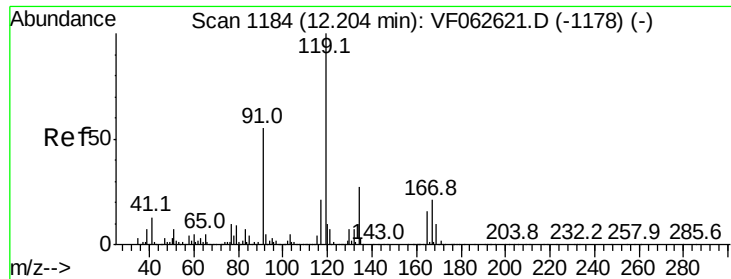
MMDadoda
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#82
4-Chlorotoluene
Concen: 64.909 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.1	19.1	57.1





#83

tert-Butylbenzene

Concen: 63.905 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

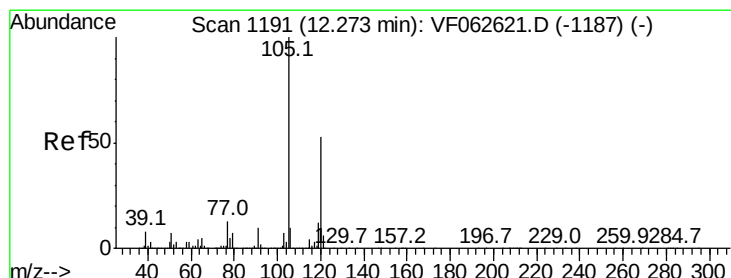
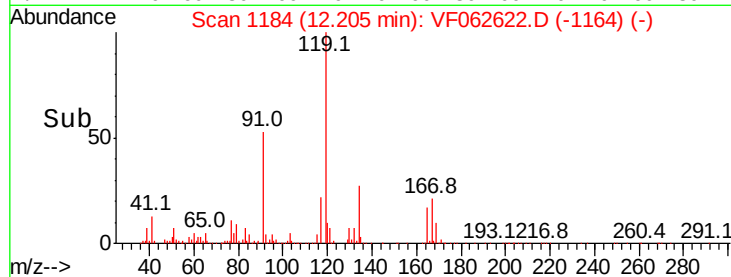
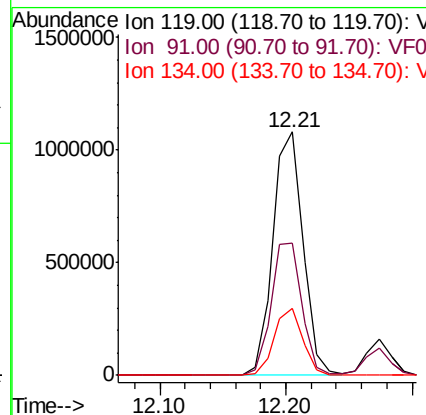
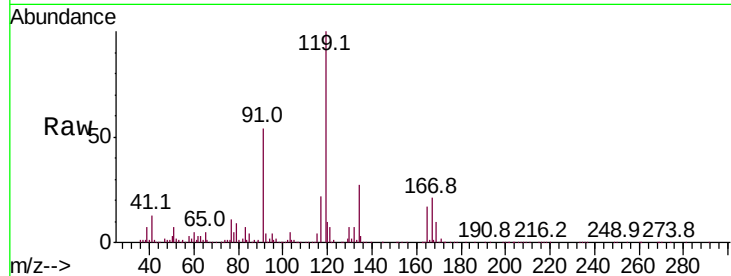
ClientSampleId :

VSTDIC075

Tot Ion:	119	Resp:	1802115
Ion Ratio	Lower	Upper	
119	100		
91	54.5	27.3	81.9
134	27.3	13.6	40.7

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#84

1,2,4-Trimethylbenzene

Concen: 62.244 ug/l

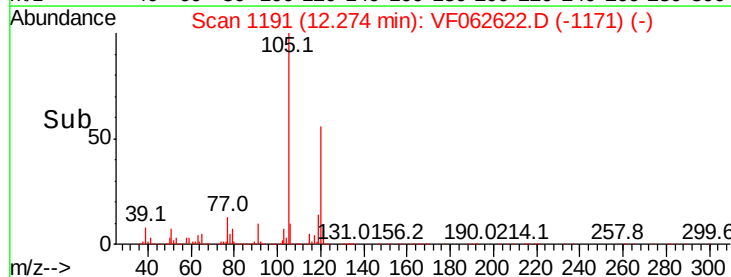
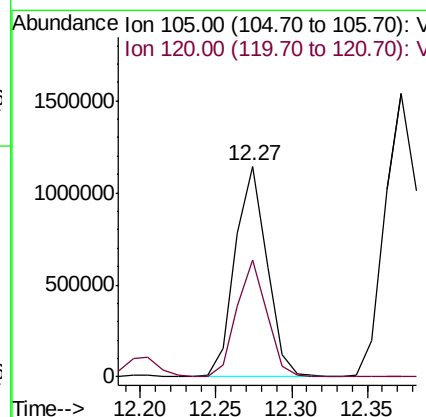
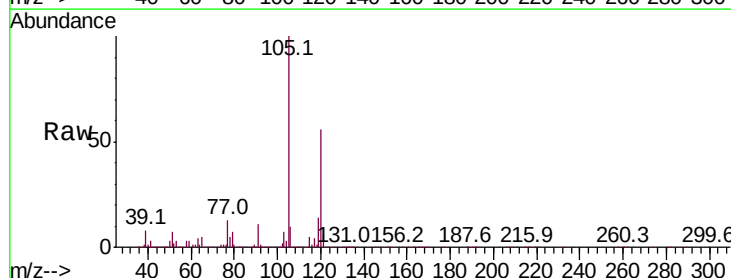
RT: 12.27 min Scan# 1191

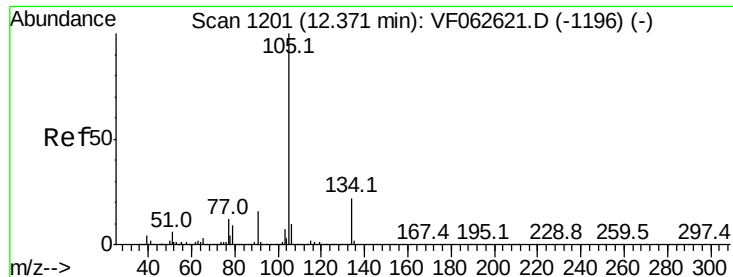
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	105	Resp:	1674518
Ion Ratio	Lower	Upper	
105	100		
120	55.6	26.7	80.1





#85

sec-Butylbenzene

Concen: 63.192 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 2391495

Ion Ratio Lower Upper

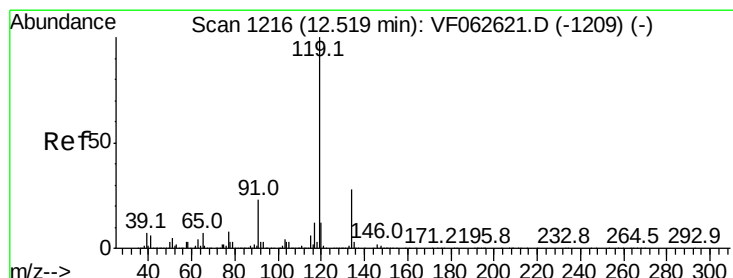
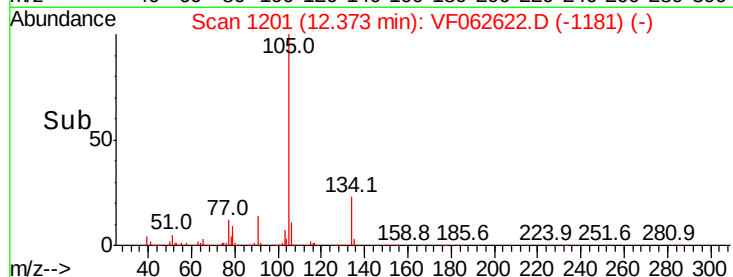
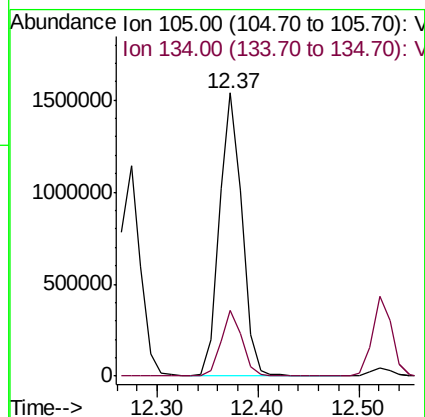
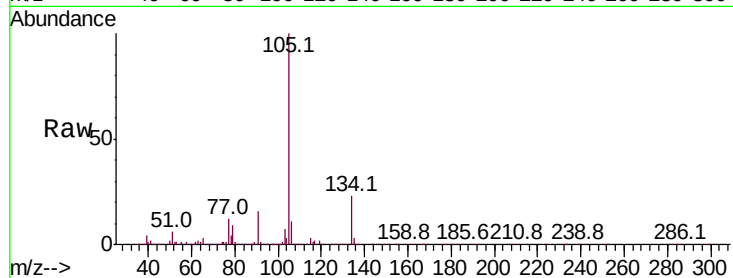
105 100

134 23.1 10.8 32.4

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5/17/2019 4:20:13 PM



#86

p-Isopropyltoluene

Concen: 62.418 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

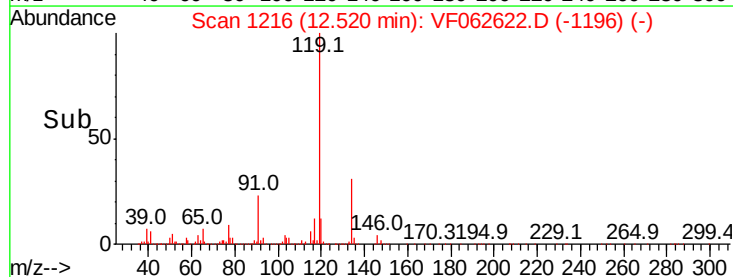
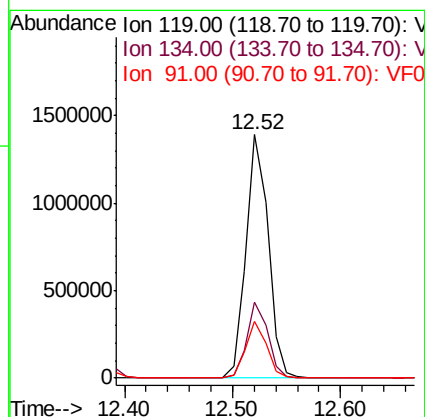
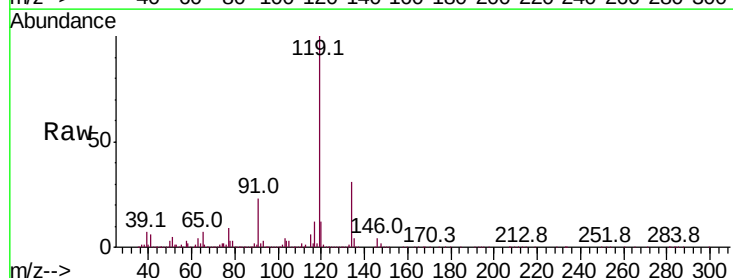
Tgt Ion:119 Resp: 1990760

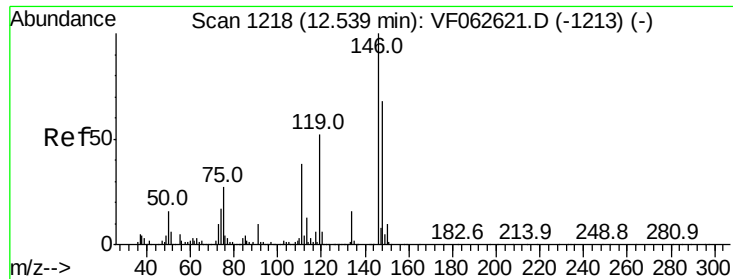
Ion Ratio Lower Upper

119 100

134 31.3 14.1 42.3

91 23.3 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 61.847 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF062622.D

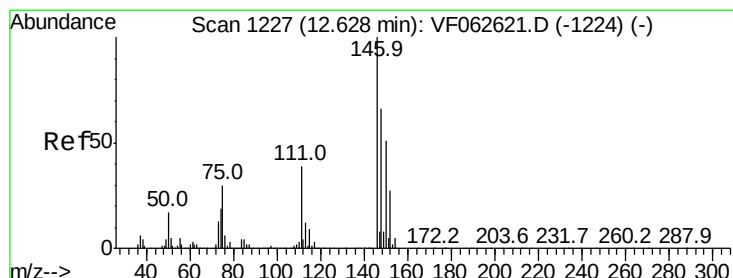
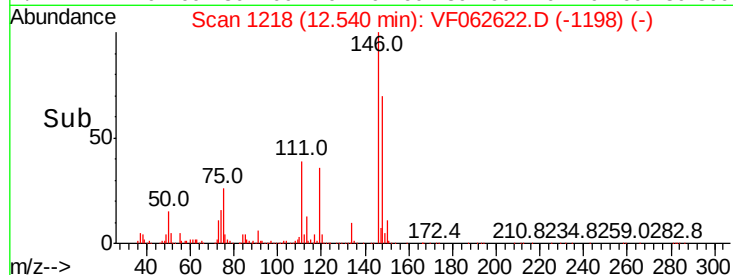
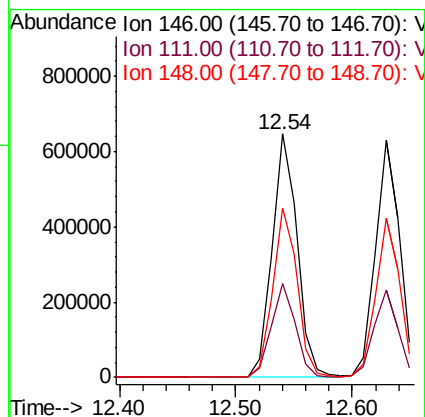
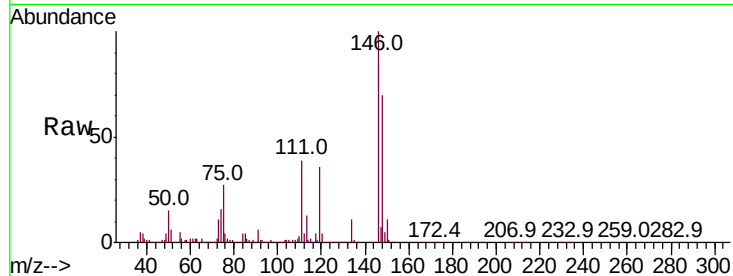
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.9	56.9
148	69.6	34.0	101.8

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#88

1,4-Dichlorobenzene

Concen: 63.299 ug/l

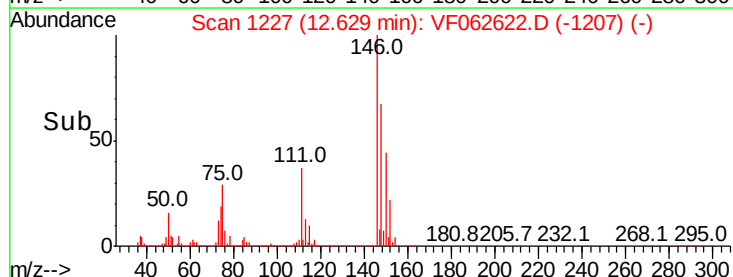
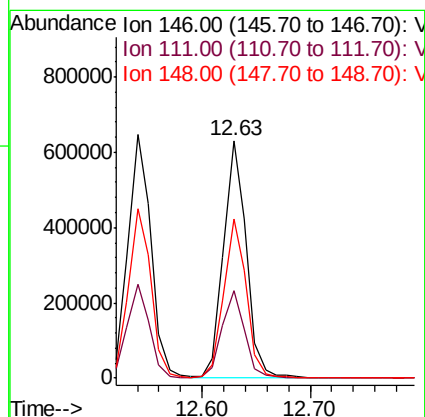
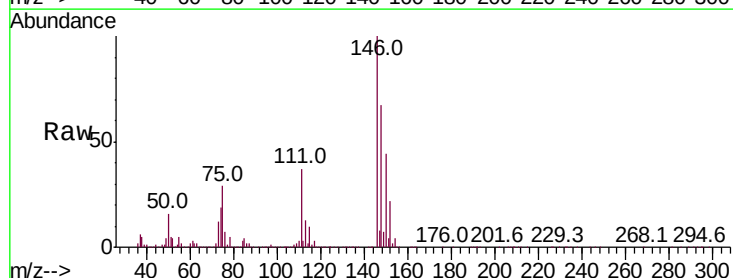
RT: 12.63 min Scan# 1227

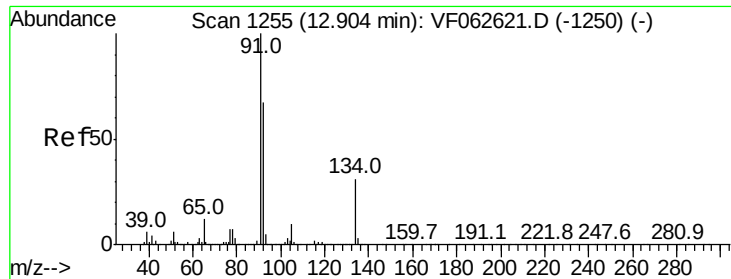
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	19.4	58.2
148	67.0	33.2	99.6





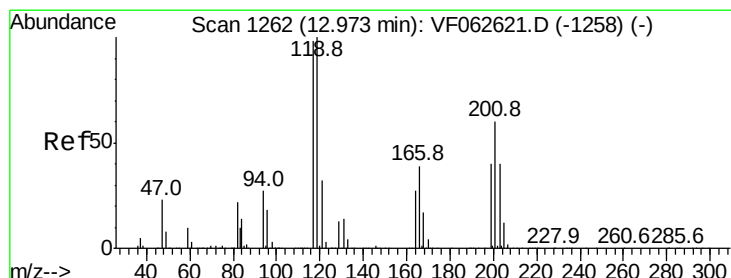
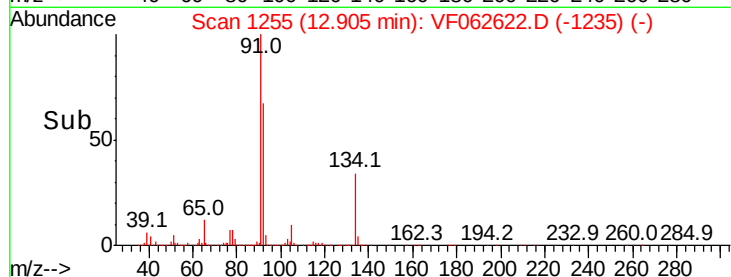
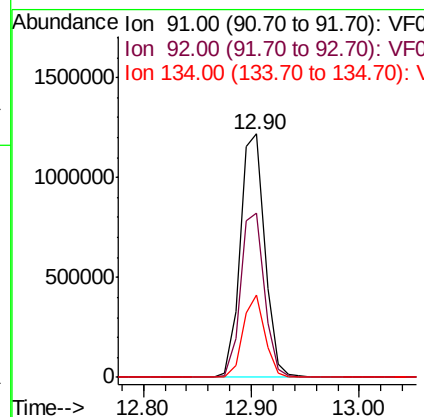
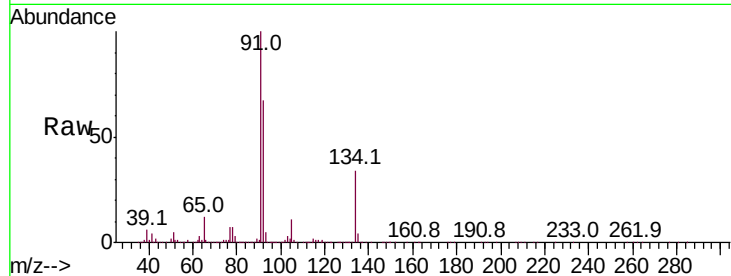
#89
n-Butylbenzene
Concen: 61.451 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
91	100		
92	67.3	33.3	99.8
134	33.9	15.4	46.4

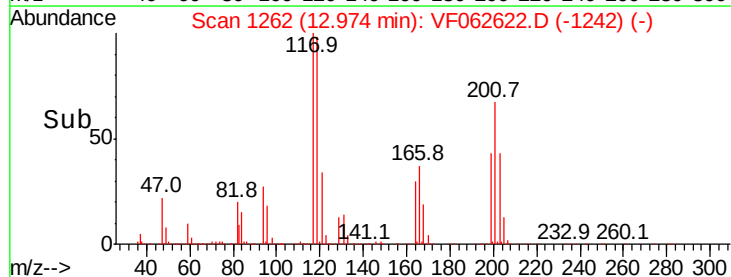
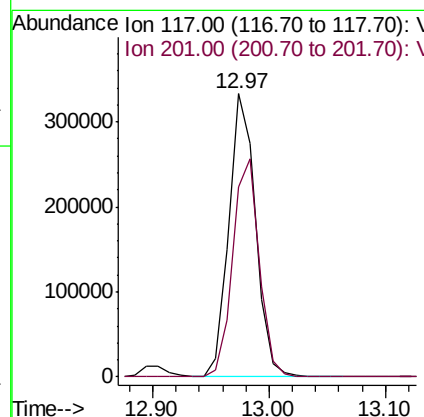
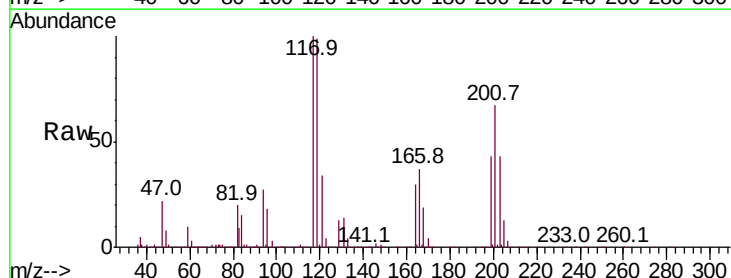
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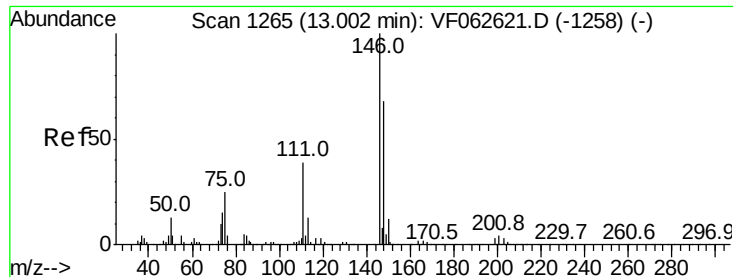
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#90
Hexachloroethane
Concen: 69.010 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.9	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 64.739 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Instrument :

MSVOA_F

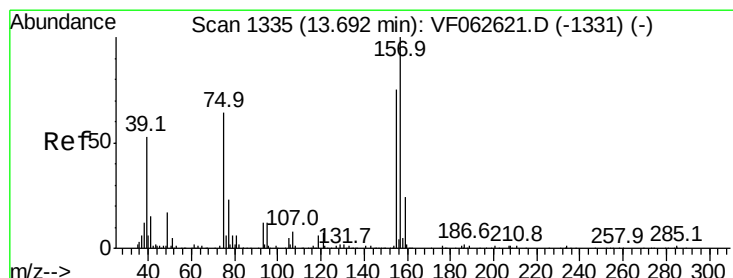
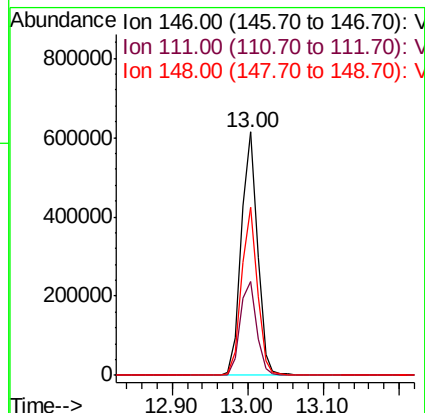
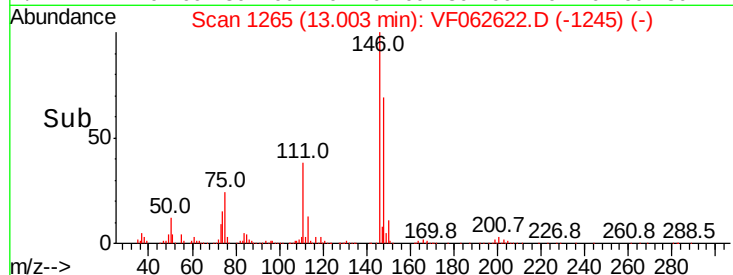
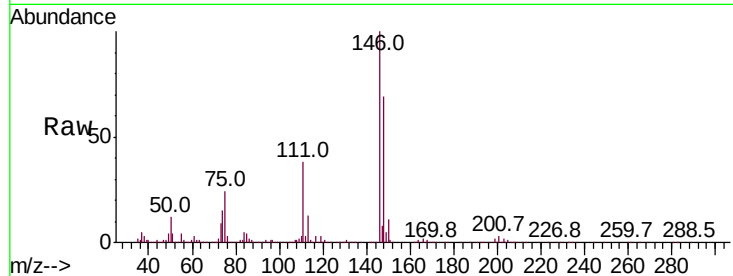
ClientSampleId :

VSTDIC075

Tot Ion:	146	Resp:	899616
Ion Ratio	Lower	Upper	
146	100		
111	38.3	19.8	59.3
148	68.8	34.1	102.2

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#92

1,2-Dibromo-3-Chloropropane

Concen: 69.592 ug/l

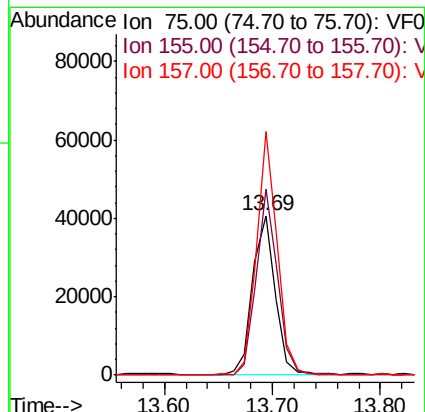
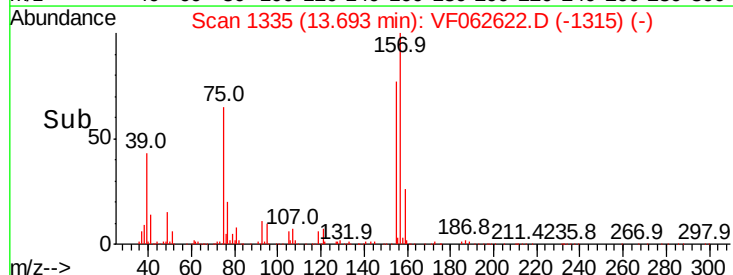
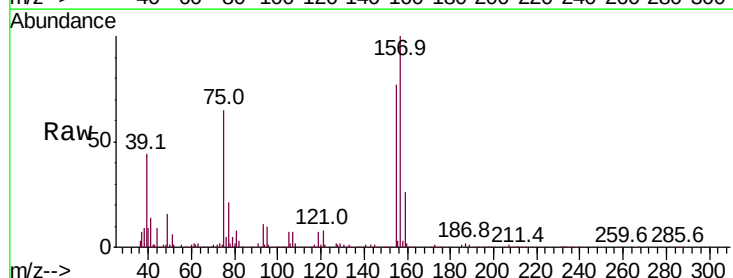
RT: 13.69 min Scan# 1335

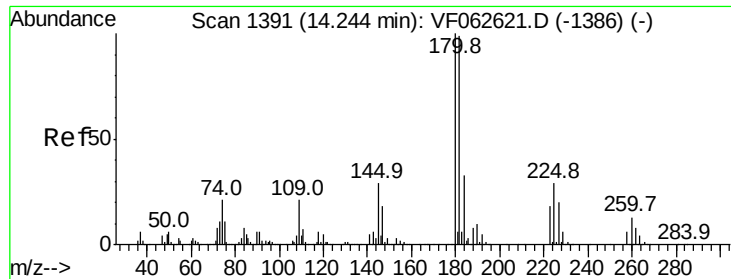
Delta R.T. 0.00 min

Lab File: VF062622.D

Acq: 16 May 2019 12:28

Tgt Ion:	75	Resp:	58813
Ion Ratio	Lower	Upper	
75	100		
155	117.0	58.1	174.3
157	153.0	77.8	233.4





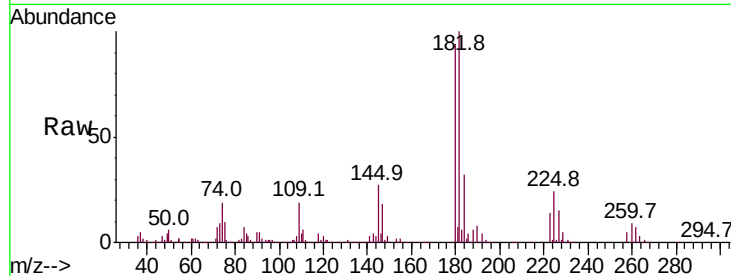
#93
1,2,4-Trichlorobenzene
Concen: 62.545 ug/l
RT: 14.25 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	622113		
182	106.1	49.7	149.1	
145	29.0	14.6	44.0	

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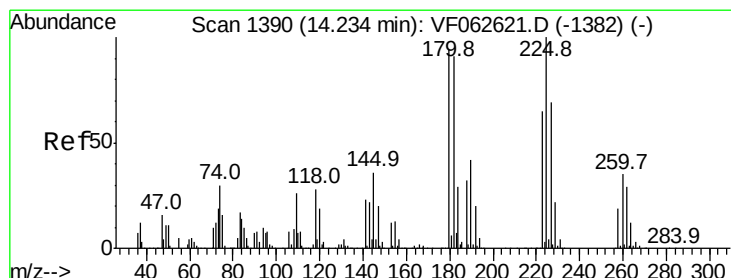
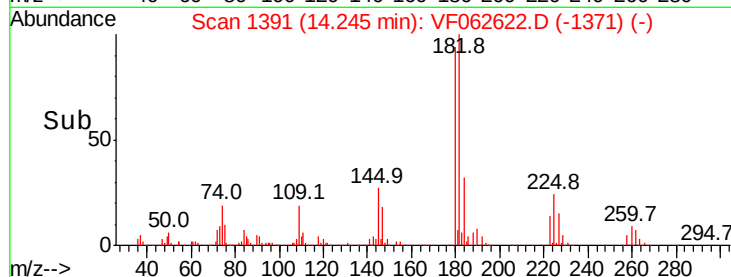
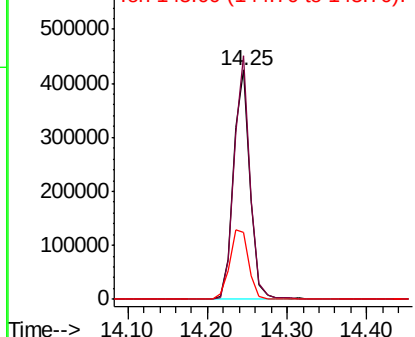


Abundance

Ion 180.00 (179.70 to 180.70): V

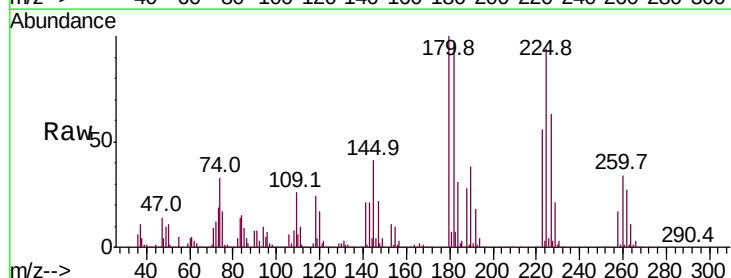
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
Hexachlorobutadiene
Concen: 66.548 ug/l
RT: 14.24 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	461944		
223	59.6	32.5	97.4	
227	66.3	34.5	103.5	

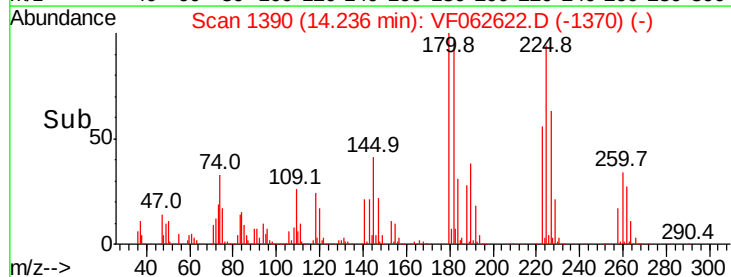
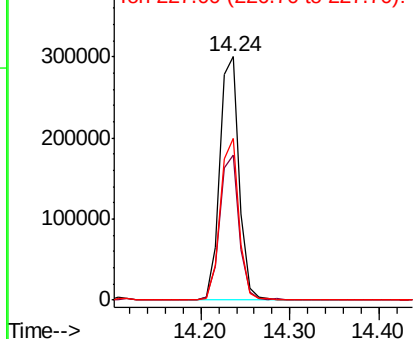


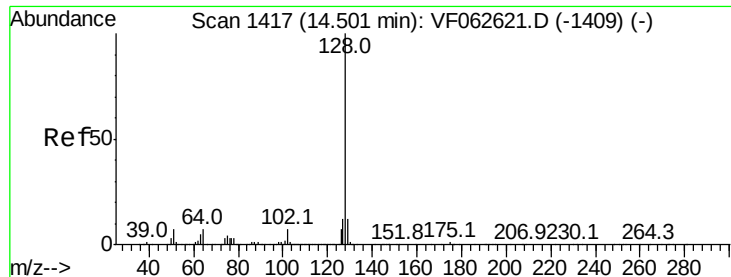
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





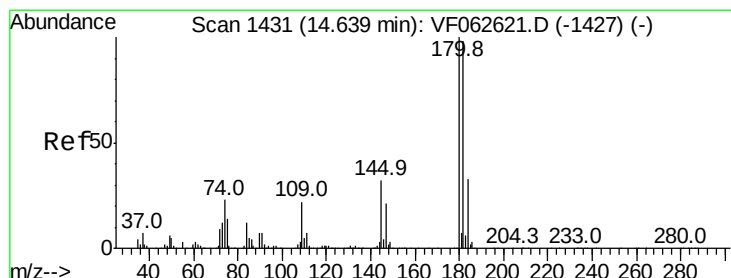
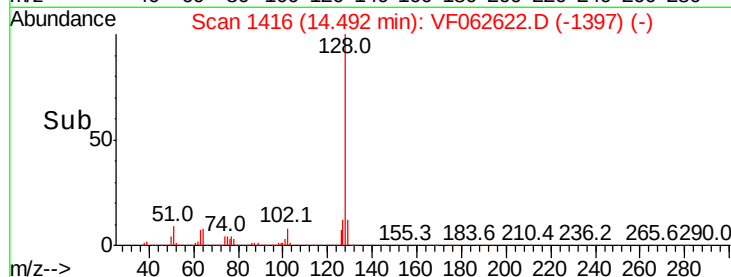
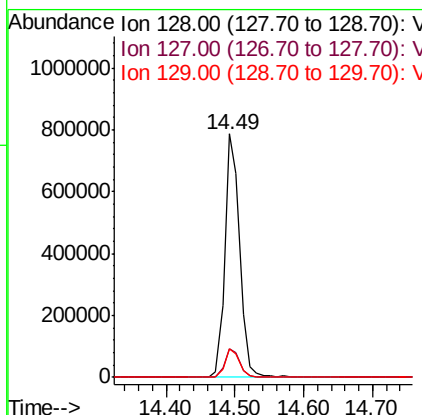
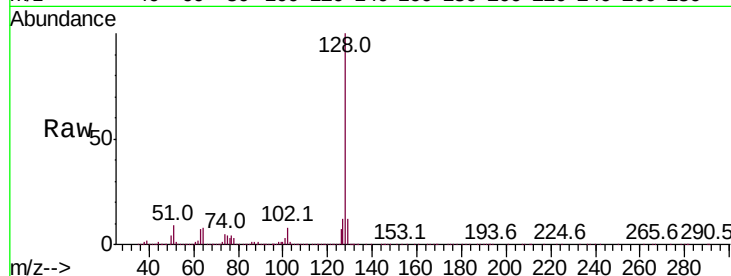
#95
Naphthalene
Concen: 64.998 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Instrument :
MSVOA_F
ClientSampled :
VSTDIC075

Tot Ion:128 Resp: 1174530
Ion Ratio Lower Upper
128 100
127 11.8 9.7 14.5
129 11.5 9.3 13.9

Manual Integrations
APPROVED

MMDadoda
5/17/2019 4:20:13 PM



#96
1,2,3-Trichlorobenzene
Concen: 70.941 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062622.D
Acq: 16 May 2019 12:28

Tgt Ion:180 Resp: 668382
Ion Ratio Lower Upper
180 100
182 100.8 48.9 146.7
145 29.9 16.1 48.2

