

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062170.D
 Acq On : 16 Apr 2019 11:18
 Operator : FY/SY
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:50:06 AM

Quant Time: Apr 17 07:59:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:22:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	444278	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	666333	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	557077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	277610	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	40822	10.20	ug/l	0.00
Spiked Amount						
			Recovery	=	20.40%	
35) Dibromofluoromethane	4.31	113	56390	10.73	ug/l	0.00
Spiked Amount						
			Recovery	=	21.46%	
50) Toluene-d8	7.71	98	163396	10.64	ug/l	0.00
Spiked Amount						
			Recovery	=	21.28%	
62) 4-Bromofluorobenzene	11.49	95	65518	10.80	ug/l	0.00
Spiked Amount						
			Recovery	=	21.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	77324	11.842	ug/l	96
3) Chloromethane	1.13	50	81776	11.651	ug/l	95
4) Vinyl Chloride	1.18	62	68154	11.091	ug/l	93
5) Bromomethane	1.37	94	46031	11.671	ug/l	98
6) Chloroethane	1.44	64	33036	11.363	ug/l	98
7) Trichlorofluoromethane	1.54	101	81551	11.128	ug/l	97
8) Diethyl Ether	1.71	74	15469	10.463	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	1.90	101	56572	11.794	ug/l	93
10) Methyl Iodide	1.97	142	99848	11.167	ug/l	96
11) Tert butyl alcohol	2.69	59	11835	53.343	ug/l #	48
12) 1,1-Dichloroethene	1.86	96	52576	10.778	ug/l	90
13) Acrolein	2.10	56	10330	59.713	ug/l #	73
14) Allyl chloride	2.20	41	88038	11.985	ug/l	99
15) Acrylonitrile	3.08	53	42735	52.311	ug/l	97
16) Acetone	2.35	43	47428	52.555	ug/l	91
17) Carbon Disulfide	1.89	76	156072	11.250	ug/l	99
18) Methyl Acetate	2.45	43	33025m	15.424	ug/l	
19) Methyl tert-butyl Ether	2.54	73	93191	11.485	ug/l #	89
20) Methylene Chloride	2.33	84	61021	11.801	ug/l	99
21) trans-1,2-Dichloroethene	2.42	96	53153	11.388	ug/l	94
22) Diisopropyl ether	2.93	45	153826	11.266	ug/l	95
23) Vinyl Acetate	3.34	43	377377	55.408	ug/l	98
24) 1,1-Dichloroethane	3.02	63	83407	10.970	ug/l	97
25) 2-Butanone	4.51	43	106139	54.734	ug/l	100
26) 2,2-Dichloropropane	3.78	77	45762	11.442	ug/l	100
27) cis-1,2-Dichloroethene	3.65	96	68771	11.100	ug/l	96
28) Bromochloromethane	3.90	49	36893	10.133	ug/l	99
29) Tetrahydrofuran	4.27	42	50643	58.733	ug/l	96
30) Chloroform	4.05	83	107542	11.376	ug/l	92
31) Cyclohexane	3.88	56	111856	11.396	ug/l	98
32) 1,1,1-Trichloroethane	4.29	97	75290	11.680	ug/l	99
36) 1,1-Dichloropropene	4.48	75	87287	11.790	ug/l	98
37) Ethyl Acetate	4.30	43	39519	11.585	ug/l	91
38) Carbon Tetrachloride	4.18	117	74497m	11.505	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062170.D
 Acq On : 16 Apr 2019 11:18
 Operator : FY/SY
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:50:06 AM

Quant Time: Apr 17 07:59:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:22:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.64	83	105115	11.330	ug/l	98
40) Benzene	4.82	78	227242	11.620	ug/l	100
41) Methacrylonitrile	4.93	41	22812	11.129	ug/l	93
42) 1,2-Dichloroethane	5.13	62	55093	11.131	ug/l	99
43) Isopropyl Acetate	7.12	43	45389	11.449	ug/l #	98
44) Trichloroethene	5.68	130	60757	11.607	ug/l	99
45) 1,2-Dichloropropane	6.41	63	54180	11.293	ug/l	95
46) Dibromomethane	6.26	93	31267	10.808	ug/l	100
47) Bromodichloromethane	6.56	83	74576	11.379	ug/l	99
48) Methyl methacrylate	6.88	41	28472	11.033	ug/l	96
49) 1,4-Dioxane	6.87	88	4139	205.824	ug/l #	74
51) 4-Methyl-2-Pentanone	8.40	43	178210	58.676	ug/l	95
52) Toluene	7.78	92	134987	11.750	ug/l	92
53) t-1,3-Dichloropropene	8.42	75	63873	11.251	ug/l	99
54) cis-1,3-Dichloropropene	7.45	75	85395	11.829	ug/l	91
55) 1,1,2-Trichloroethane	8.64	97	38731	11.771	ug/l	96
56) Ethyl methacrylate	8.75	69	47170	12.056	ug/l #	89
57) 1,3-Dichloropropane	8.99	76	62648	11.581	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.44	63	58029	57.564	ug/l	99
59) 2-Hexanone	9.62	43	120985	62.592	ug/l	99
60) Dibromochloromethane	8.86	129	53658	11.852	ug/l	98
61) 1,2-Dibromoethane	9.13	107	38546	10.950	ug/l	98
64) Tetrachloroethene	8.30	164	51240	11.262	ug/l	92
65) Chlorobenzene	9.93	112	131626	11.358	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.05	131	52861	11.049	ug/l	91
67) Ethyl Benzene	10.02	91	248486	11.567	ug/l	96
68) m/p-Xylenes	10.25	106	185891	23.503	ug/l	88
69) o-Xylene	10.81	106	98254	11.476	ug/l	86
70) Styrene	10.89	104	150356	12.081	ug/l	99
71) Bromoform	10.87	173	28777	11.486	ug/l	99
73) Isopropylbenzene	11.21	105	283933	11.872	ug/l	94
74) N-amyl acetate	11.44	43	76256	12.233	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.77	83	49059	11.515	ug/l	97
76) 1,2,3-Trichloropropane	11.87	75	33995	11.776	ug/l	95
77) Bromobenzene	11.58	156	56952	11.450	ug/l	82
78) n-propylbenzene	11.67	91	326311	12.003	ug/l	96
79) 2-Chlorotoluene	11.80	91	188111	11.739	ug/l	95
80) 1,3,5-Trimethylbenzene	11.90	105	239584	12.011	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	16031m	10.320	ug/l	
82) 4-Chlorotoluene	11.97	91	187711	11.954	ug/l	97
83) tert-Butylbenzene	12.19	119	239342	12.084	ug/l	97
84) 1,2,4-Trimethylbenzene	12.26	105	236758	12.231	ug/l	89
85) sec-Butylbenzene	12.37	105	309687	11.891	ug/l	99
86) p-Isopropyltoluene	12.52	119	270431	12.188	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	107865	11.853	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	103511	11.667	ug/l	98
89) n-Butylbenzene	12.89	91	276441	12.448	ug/l	93
90) Hexachloroethane	12.97	117	62821	11.559	ug/l	94
91) 1,2-Dichlorobenzene	12.99	146	105773	12.112	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	8891	11.587	ug/l	82

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
Data File : VF062170.D
Acq On : 16 Apr 2019 11:18
Operator : FY/SY
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

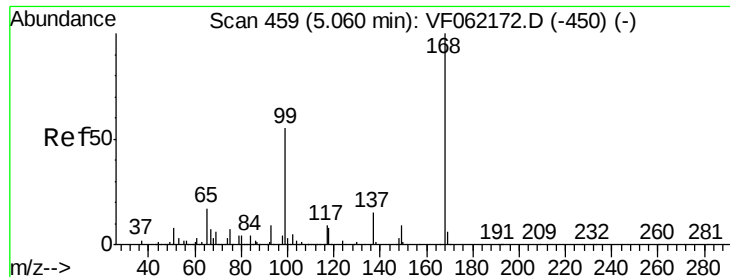
Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM

Quant Time: Apr 17 07:59:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 07:22:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	77961	11.886	ug/l	98
94) Hexachlorobutadiene	14.22	225	47880	11.201	ug/l	99
95) Naphthalene	14.49	128	127852	11.157	ug/l	98
96) 1,2,3-Trichlorobenzene	14.64	180	69605	11.391	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 444278

Ion Ratio Lower Upper

168 100

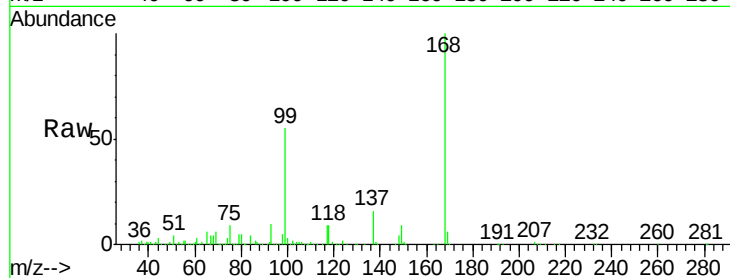
99 55.3 44.2 66.4

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

150000

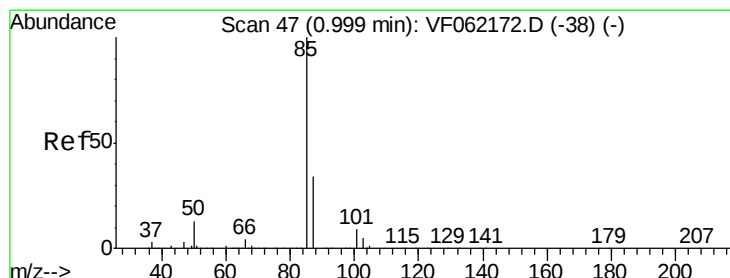
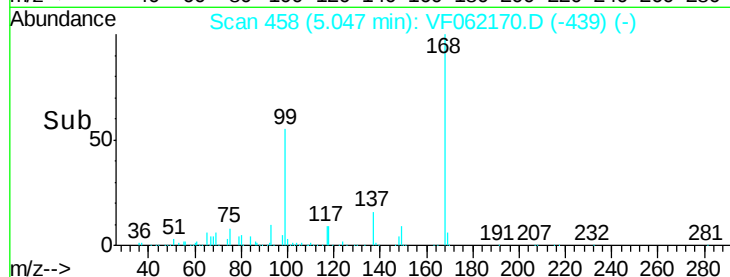
100000

50000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#2

Dichlorodifluoromethane

Concen: 11.842 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062170.D

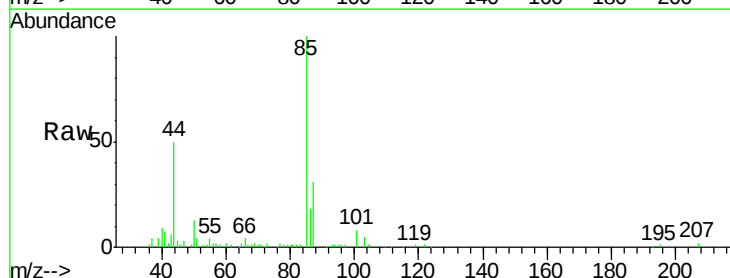
Acq: 16 Apr 2019 11:18

Tgt Ion: 85 Resp: 77324

Ion Ratio Lower Upper

85 100

87 31.4 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

15000

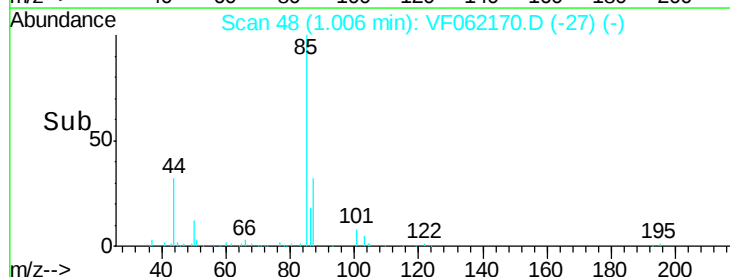
10000

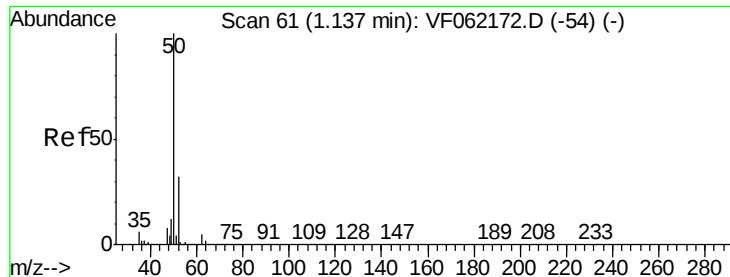
5000

0

0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 11.651 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 81776

Ion Ratio Lower Upper

50 100

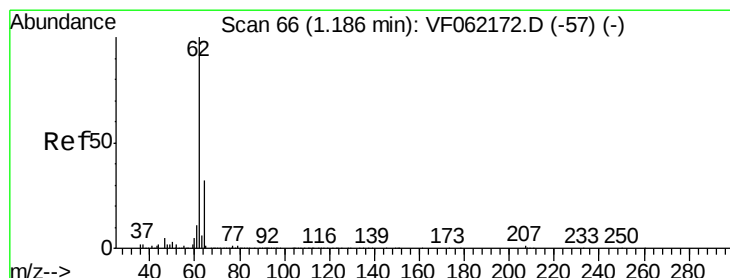
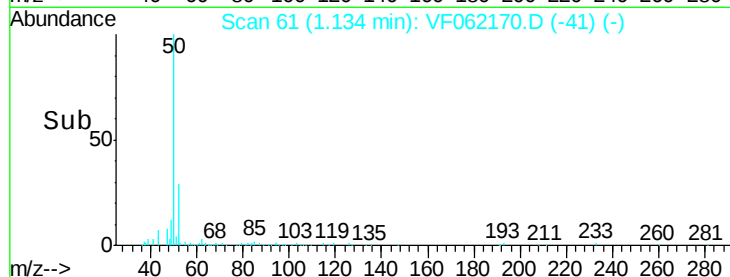
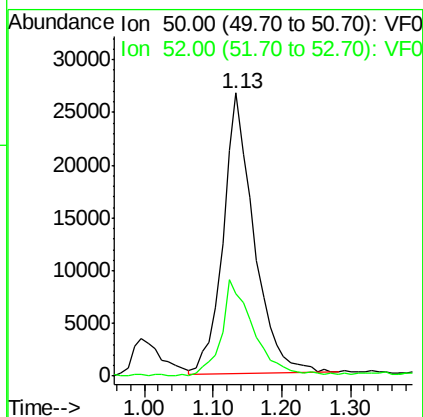
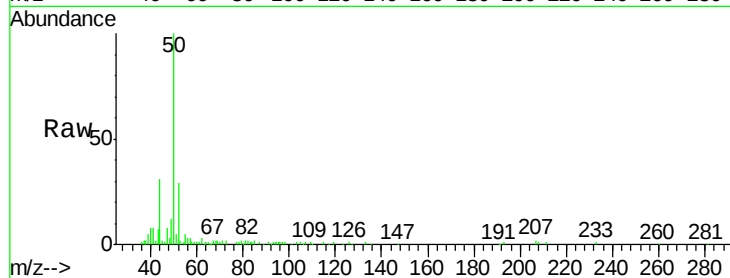
52 29.2 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#4

Vinyl Chloride

Concen: 11.091 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF062170.D

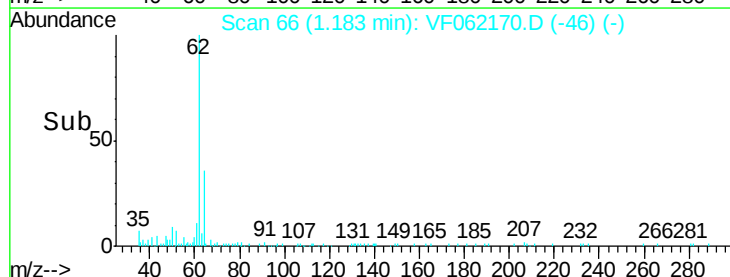
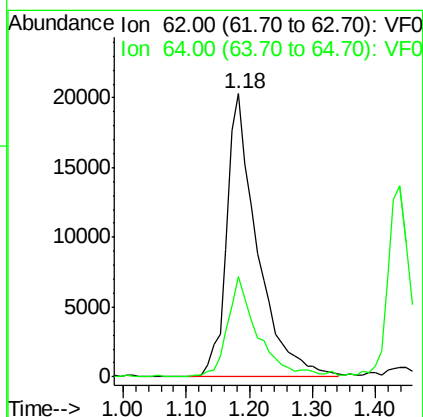
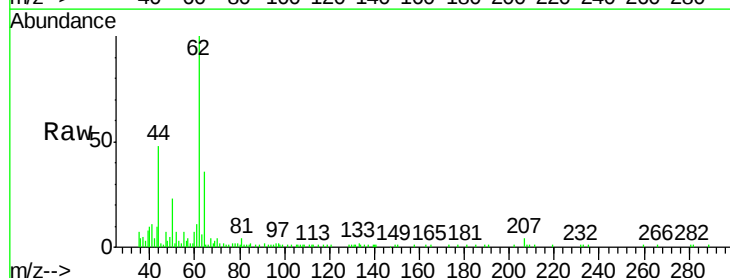
Acq: 16 Apr 2019 11:18

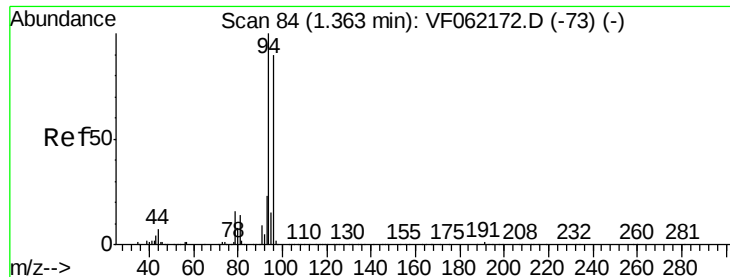
Tgt Ion: 62 Resp: 68154

Ion Ratio Lower Upper

62 100

64 35.7 25.4 38.0





#5

Bromomethane

Concen: 11.671 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 46031

Ion Ratio Lower Upper

94 100

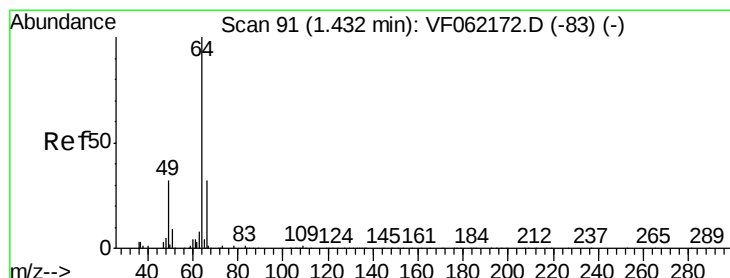
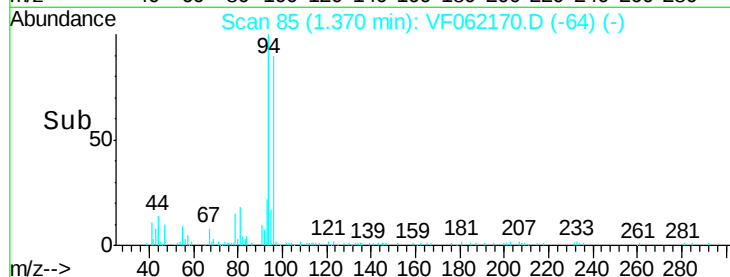
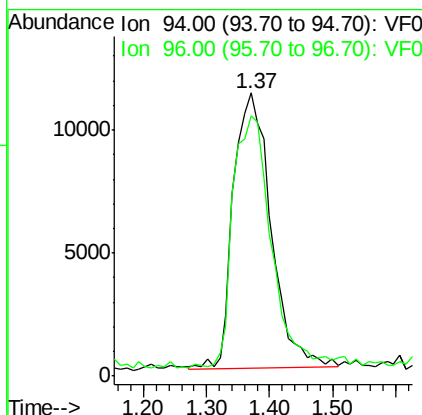
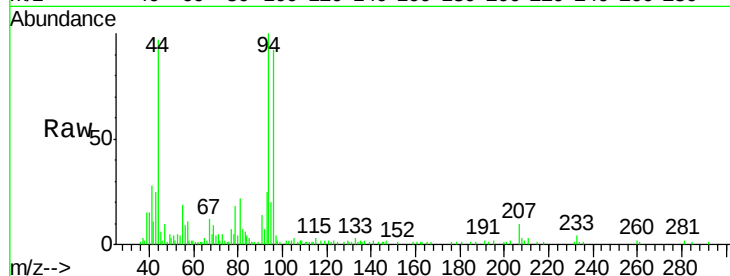
96 92.0 72.3 108.5

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#6

Chloroethane

Concen: 11.363 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.01 min

Lab File: VF062170.D

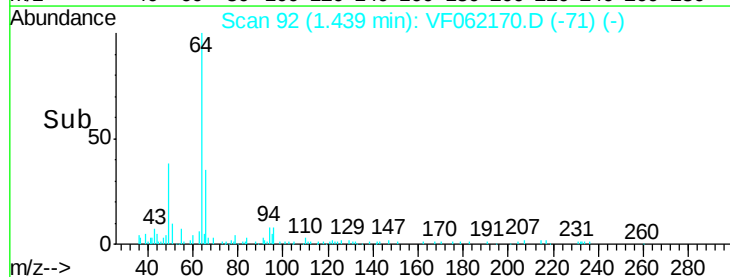
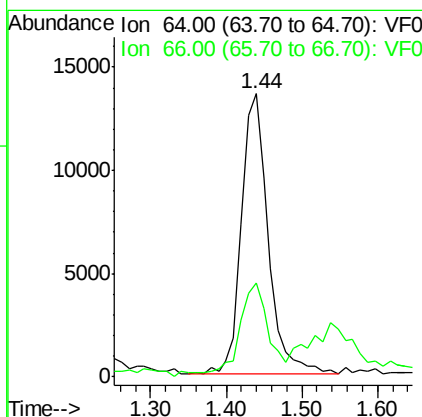
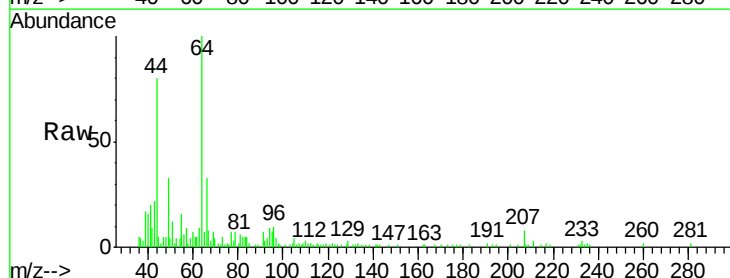
Acq: 16 Apr 2019 11:18

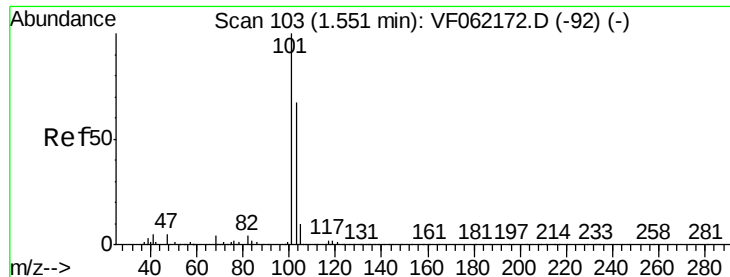
Tgt Ion: 64 Resp: 33036

Ion Ratio Lower Upper

64 100

66 33.3 25.7 38.5





#7

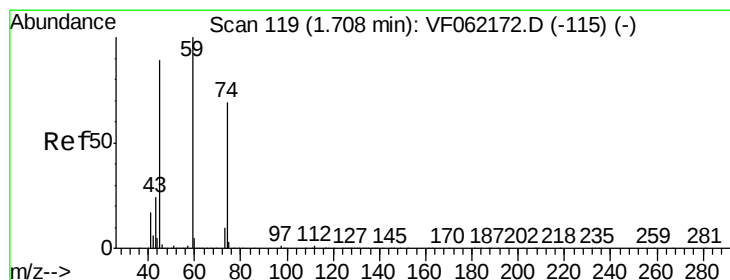
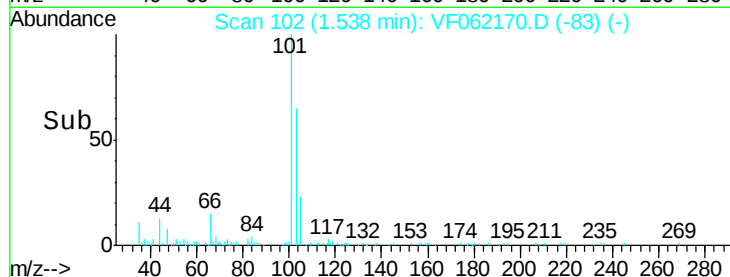
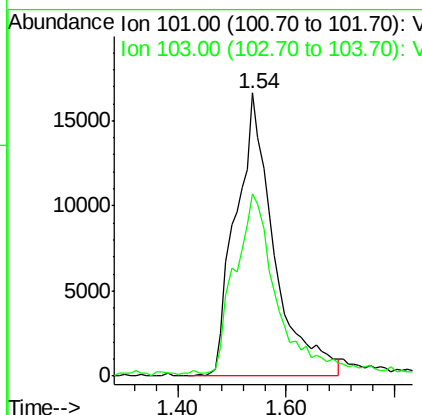
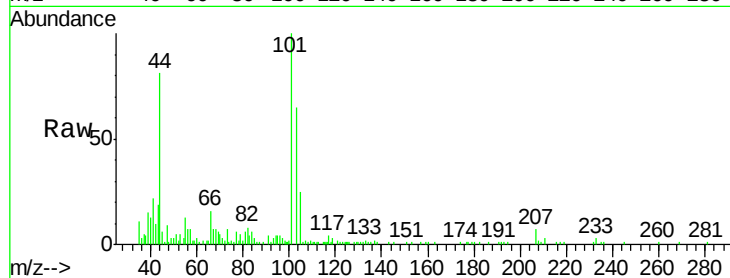
Trichlorofluoromethane
Concen: 11.128 ug/l
RT: 1.54 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.7	80.5

Manual Integrations
APPROVED

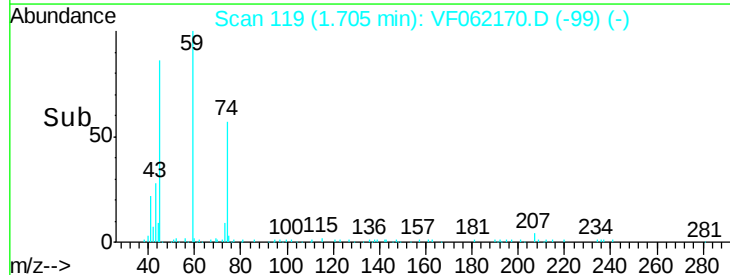
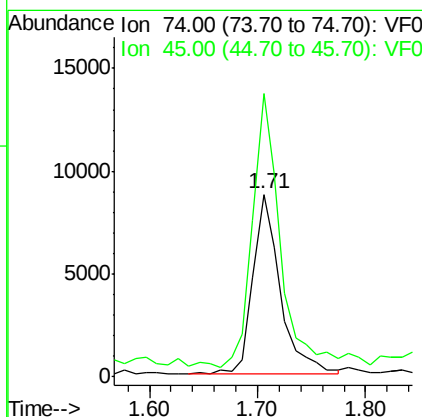
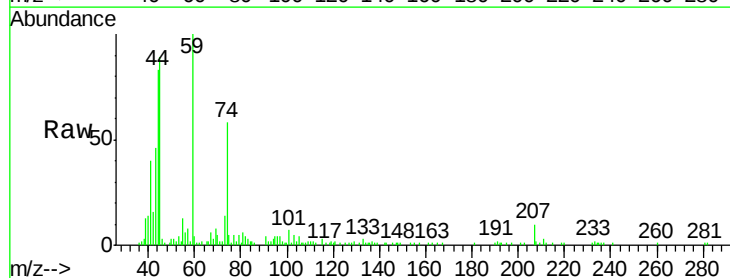
MMDadoda
4/17/2019 11:50:06 AM

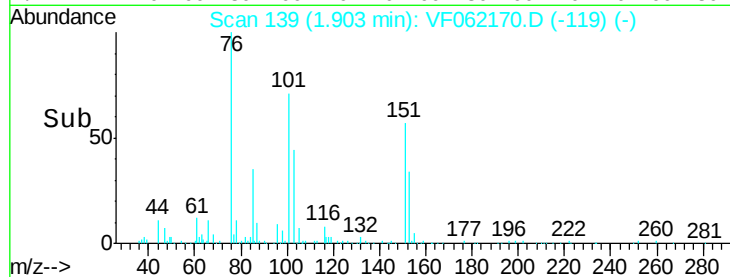
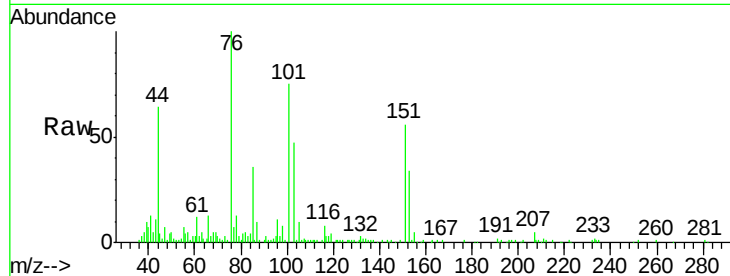
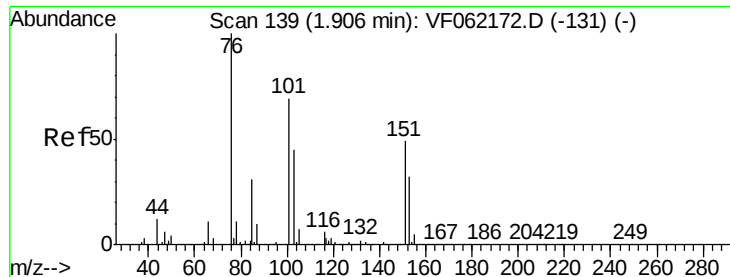


#8

Diethyl Ether
Concen: 10.463 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	155.0	64.7	194.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.794 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

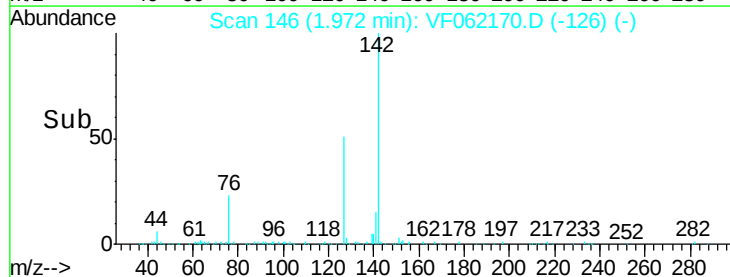
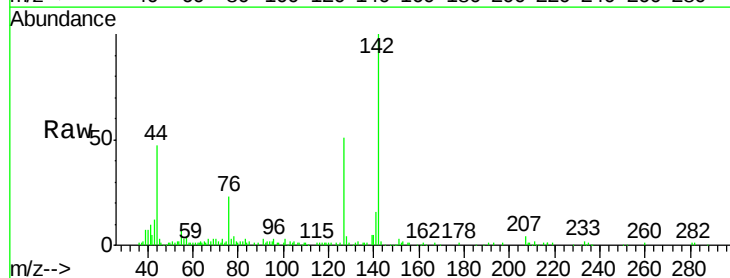
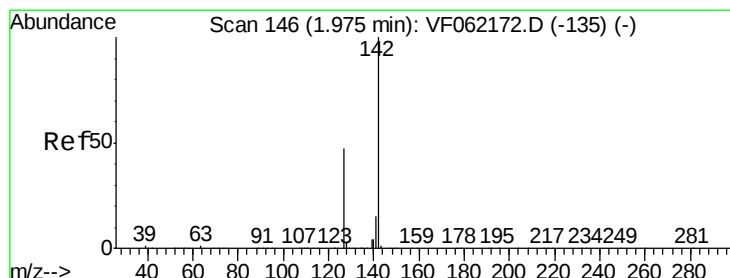
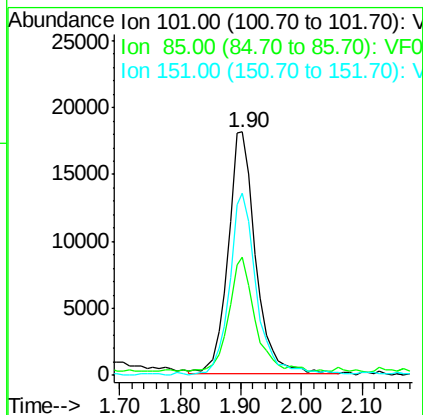
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	56572
Ion Ratio	Lower	Upper	
101	100		
85	50.0	35.2	52.8
151	74.9	56.6	85.0

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#10

Methyl Iodide

Concen: 11.167 ug/l

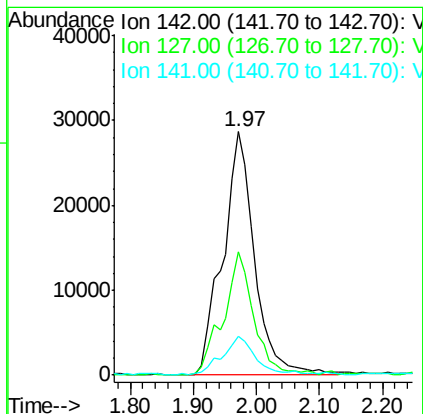
RT: 1.97 min Scan# 146

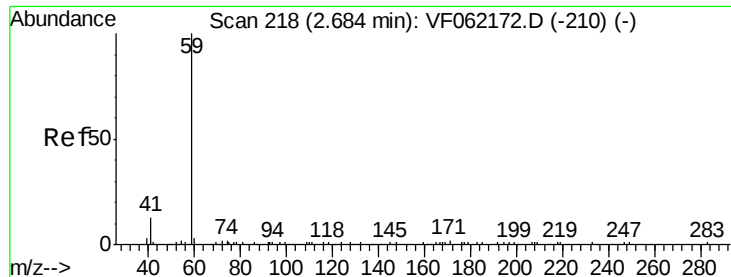
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	142	Resp:	99848
Ion Ratio	Lower	Upper	
142	100		
127	50.6	37.8	56.6
141	15.8	12.1	18.1





#11

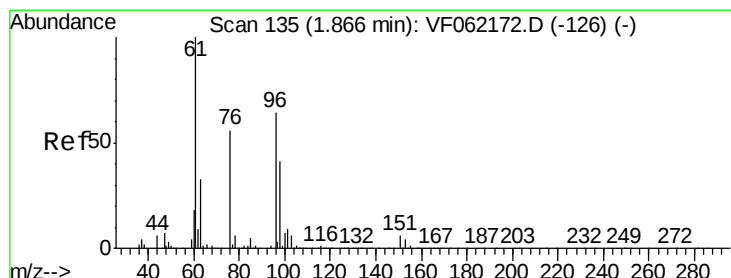
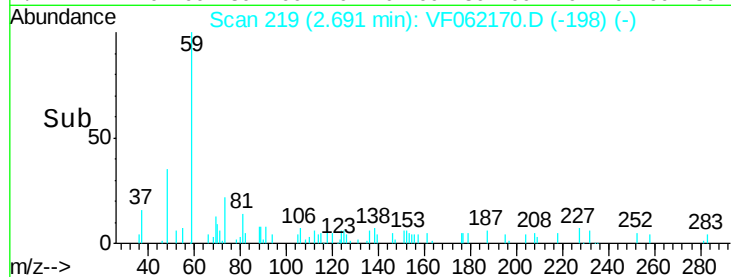
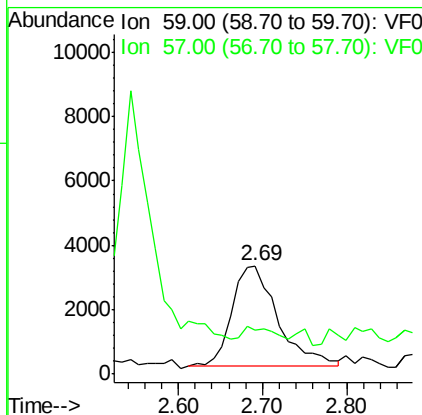
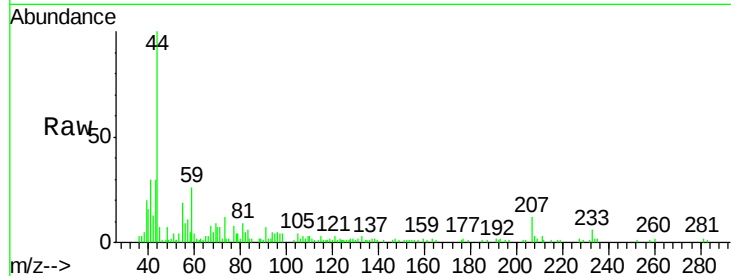
Tert butyl alcohol
Concen: 53.343 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	40.6	14.2	21.4#

Manual Integrations
APPROVED

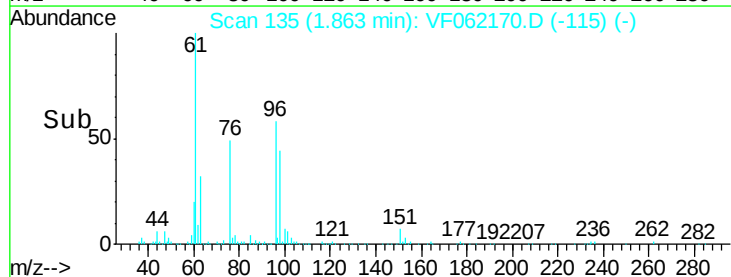
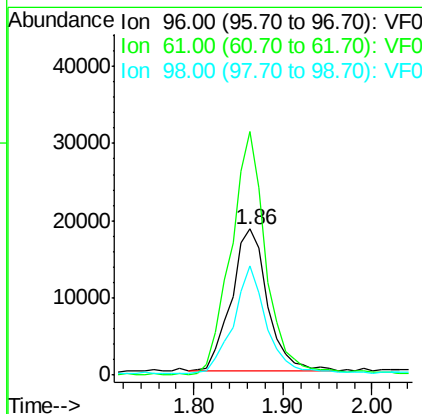
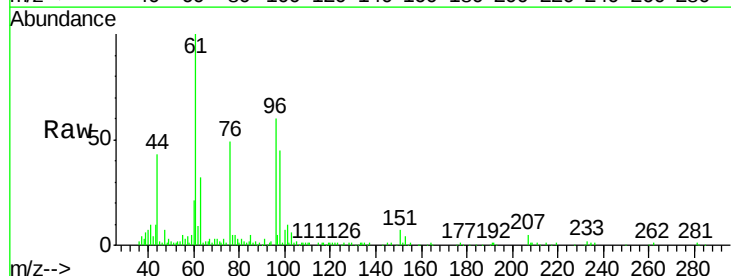
MMDadoda
4/17/2019 11:50:06 AM

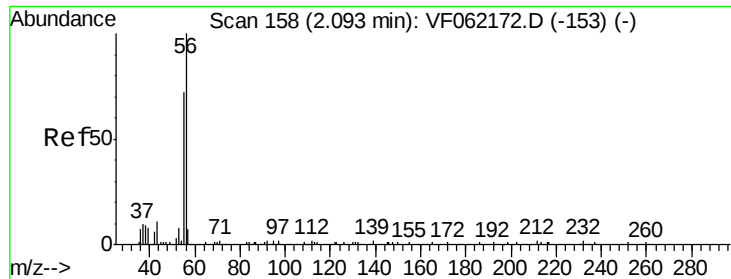


#12

1,1-Dichloroethene
Concen: 10.778 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.6	124.6	187.0
98	74.6	51.5	77.3





#13

Acrolein

Concen: 59.713 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 10330

Ion Ratio Lower Upper

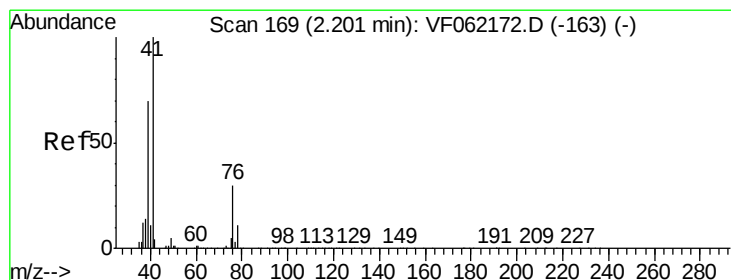
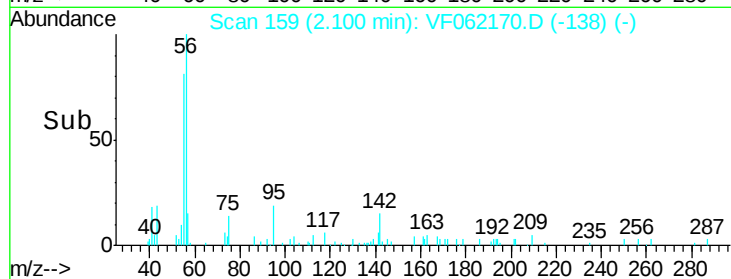
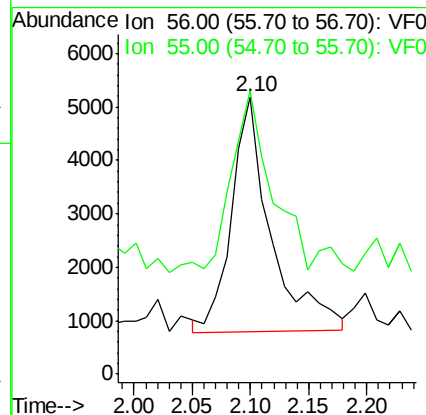
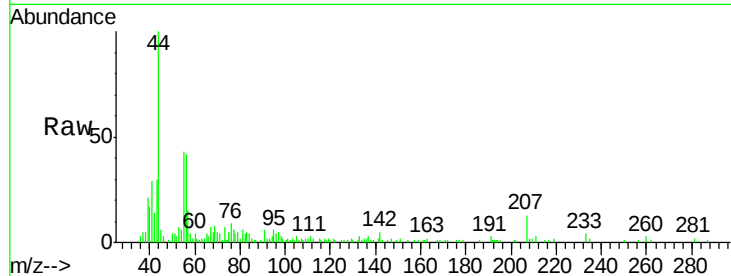
56 100

55 102.0 62.9 94.3#

Manual Integrations
APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#14

Allyl chloride

Concen: 11.985 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

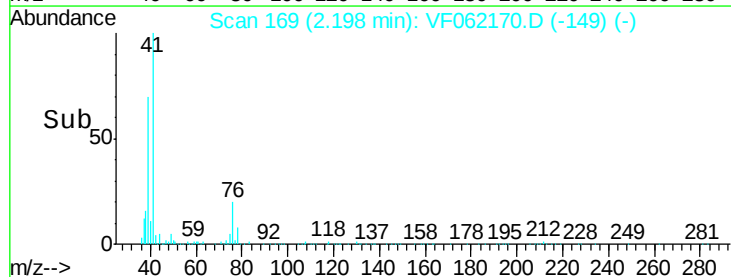
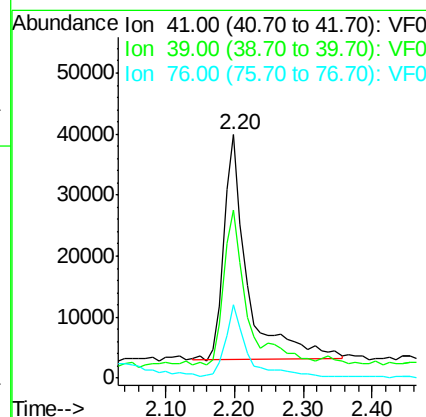
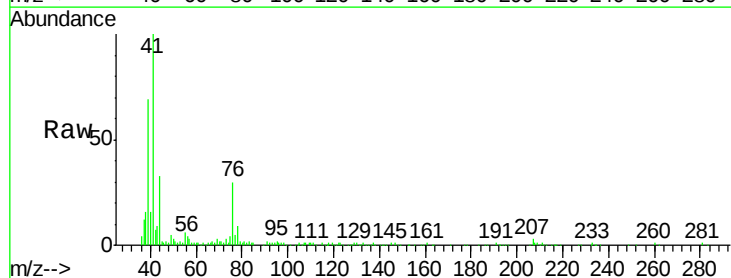
Tgt Ion: 41 Resp: 88038

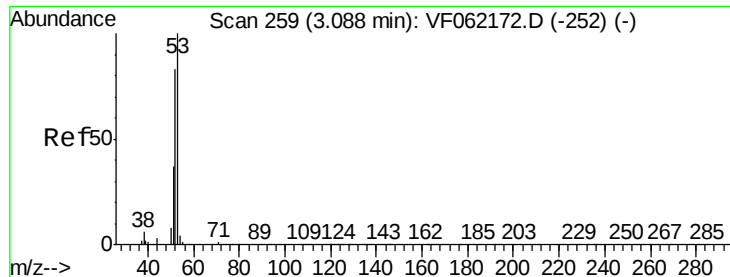
Ion Ratio Lower Upper

41 100

39 69.2 56.1 84.1

76 29.9 24.9 37.3





#15

Acrylonitrile

Concen: 52.311 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

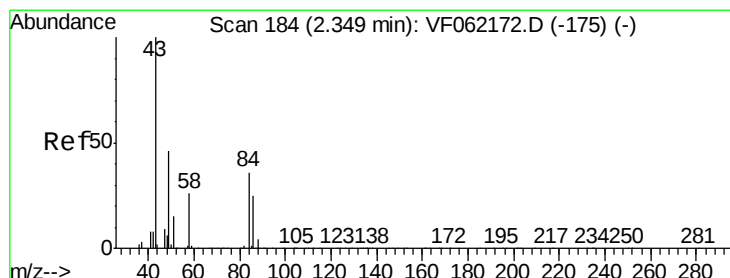
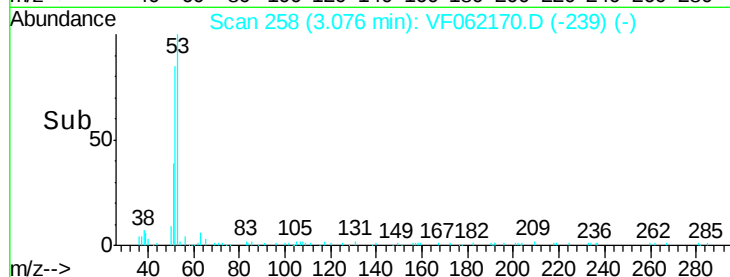
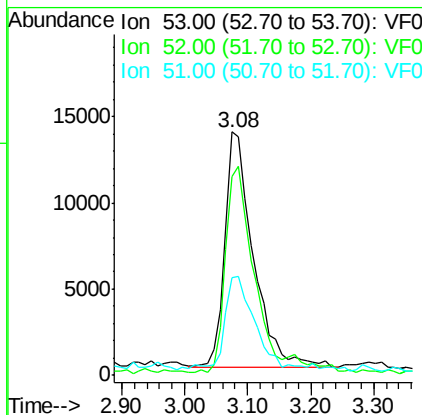
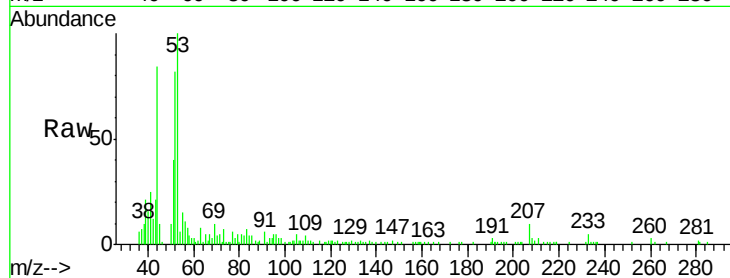
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	42735
Ion Ratio	Lower	Upper	
53	100		
52	81.7	66.6	99.8
51	40.3	30.1	45.1

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#16

Acetone

Concen: 52.555 ug/l

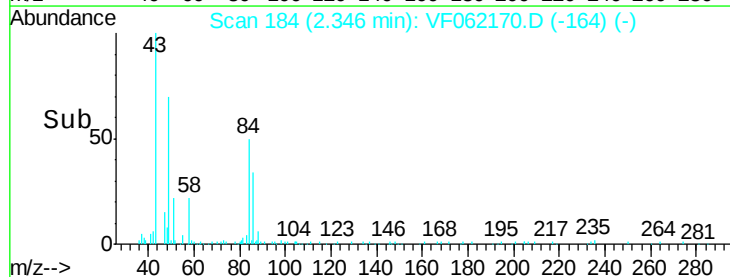
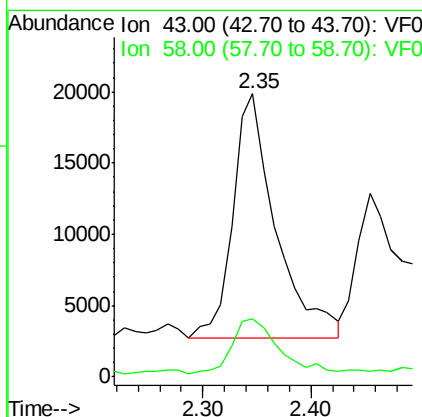
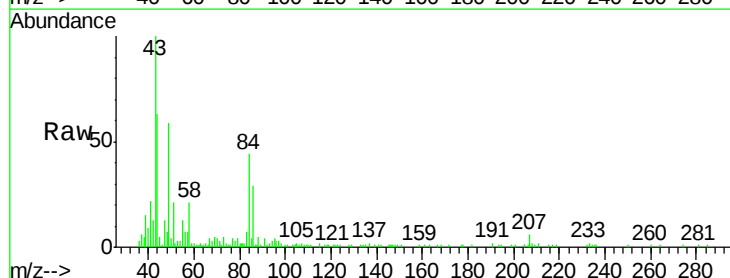
RT: 2.35 min Scan# 184

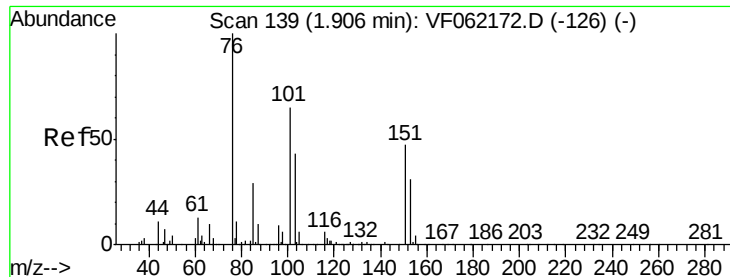
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	43	Resp:	47428
Ion Ratio	Lower	Upper	
43	100		
58	20.7	20.2	30.2





#17

Carbon Disulfide

Concen: 11.250 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampled :

VSTDIC010

Tot Ion: 76 Resp: 156072

Ion Ratio Lower Upper

76 100

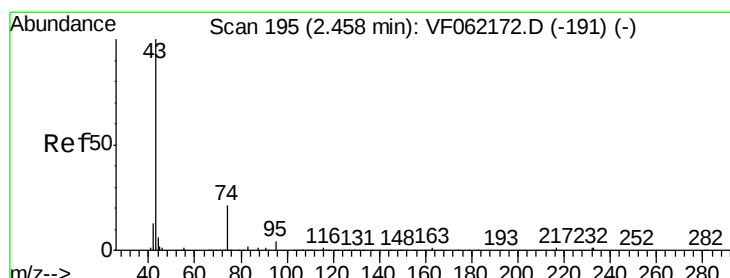
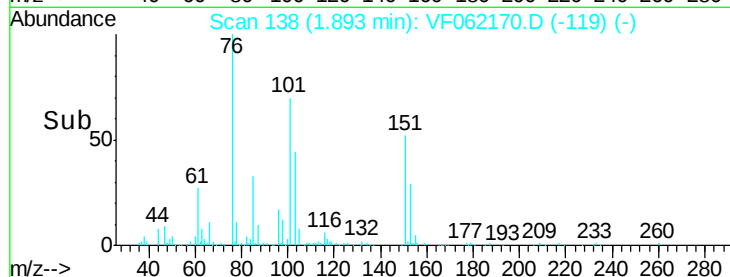
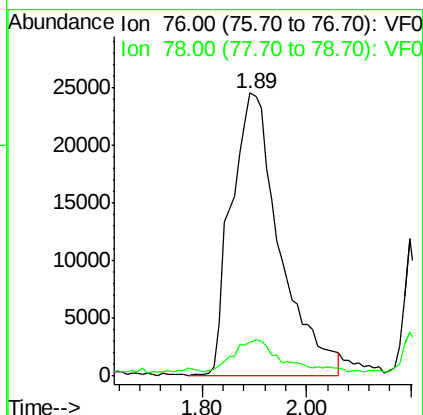
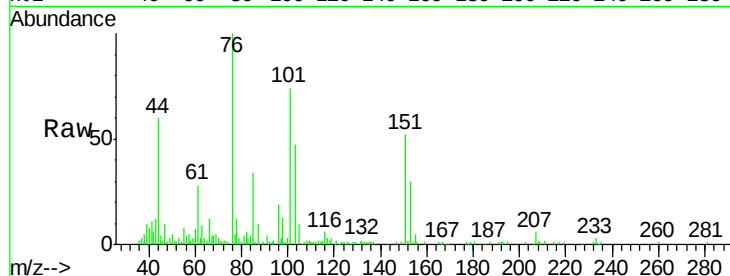
78 11.9 9.1 13.7

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#18

Methyl Acetate

Concen: 15.424 ug/l m

RT: 2.45 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF062170.D

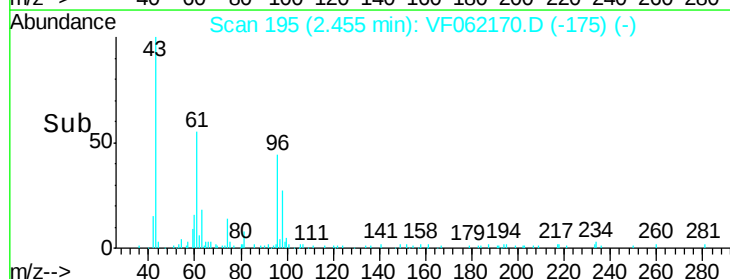
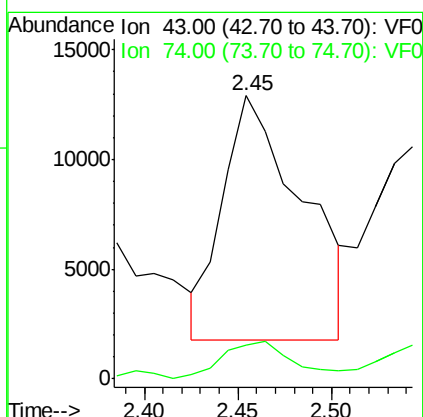
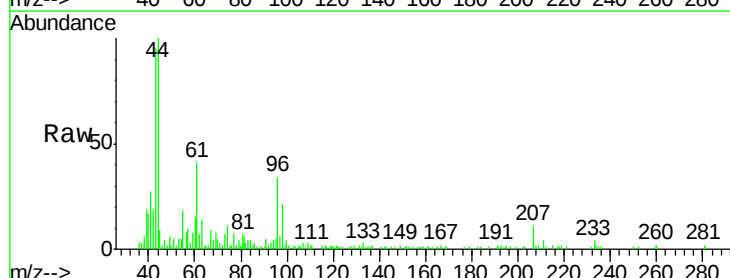
Acq: 16 Apr 2019 11:18

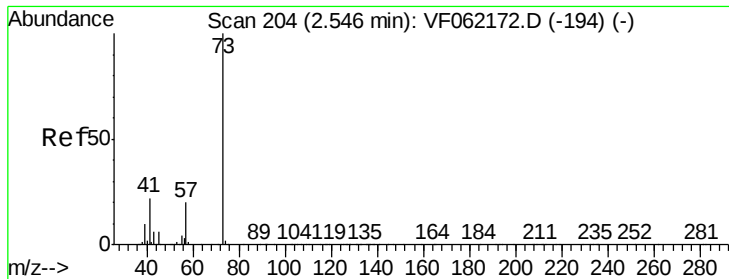
Tgt Ion: 43 Resp: 33025

Ion Ratio Lower Upper

43 100

74 12.1 14.2 21.4#





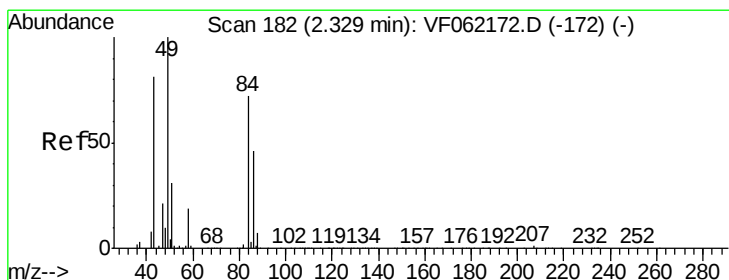
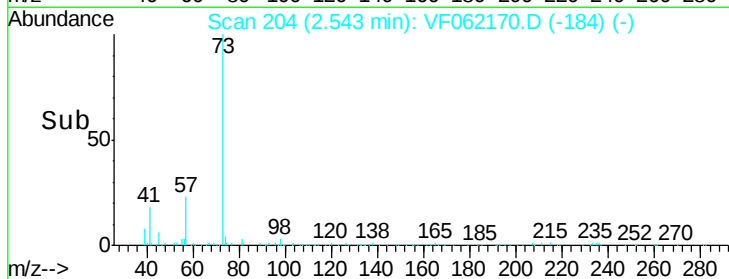
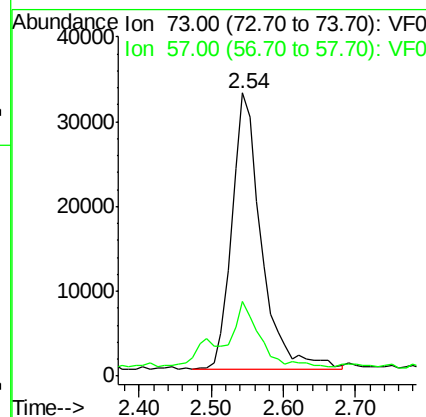
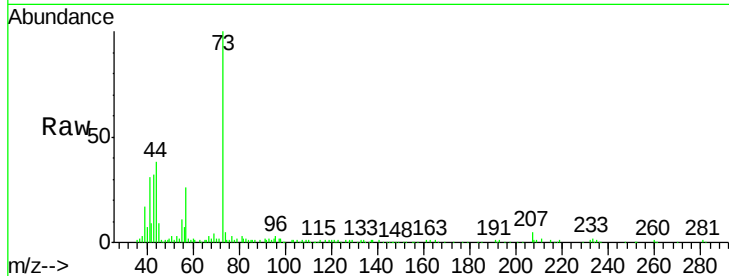
#19
Methyl tert-butyl Ether
Concen: 11.485 ug/l
RT: 2.54 min Scan# 204
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
73	100		
57	26.3	16.8	25.2#

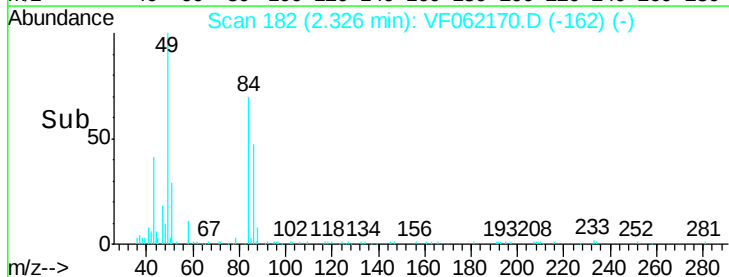
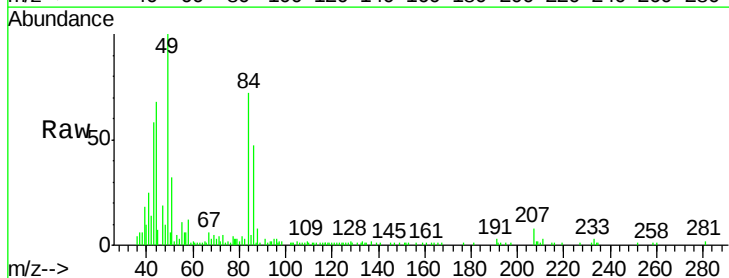
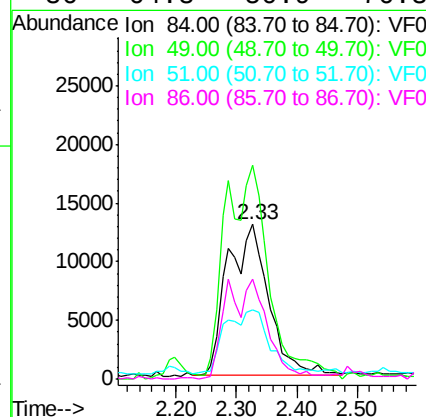
Manual Integrations
APPROVED

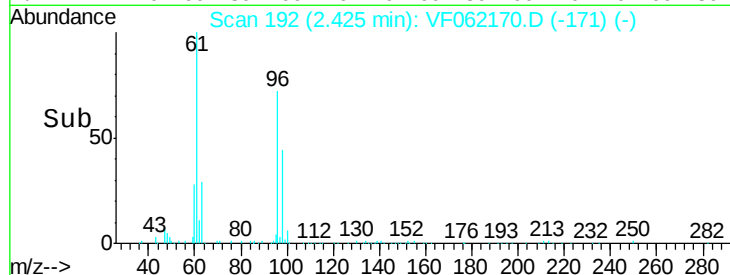
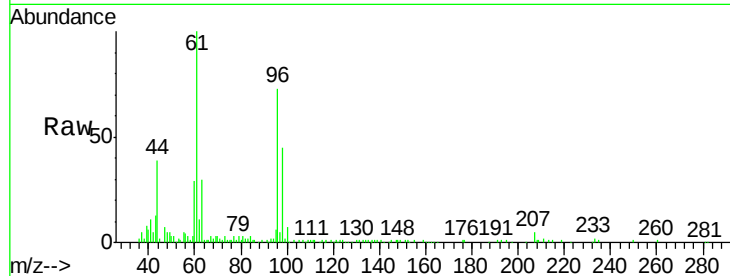
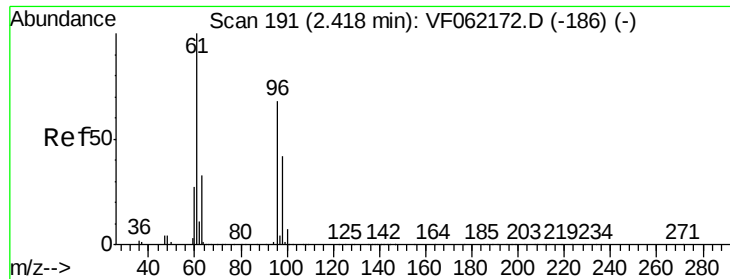
MMDadoda
4/17/2019 11:50:06 AM



#20
Methylene Chloride
Concen: 11.801 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
84	100		
49	138.3	111.5	167.3
51	44.4	34.9	52.3
86	64.8	50.9	76.3





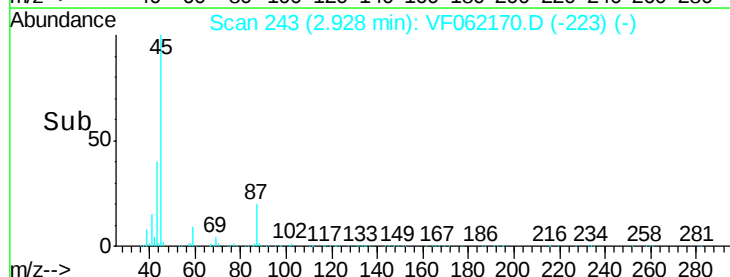
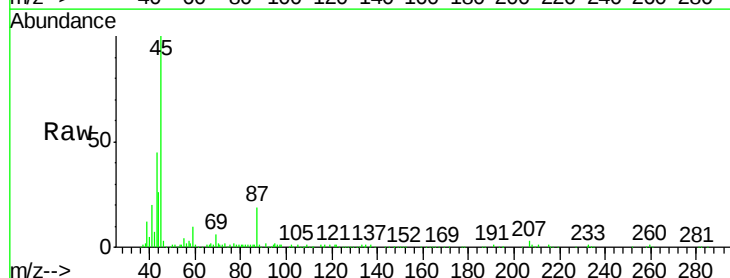
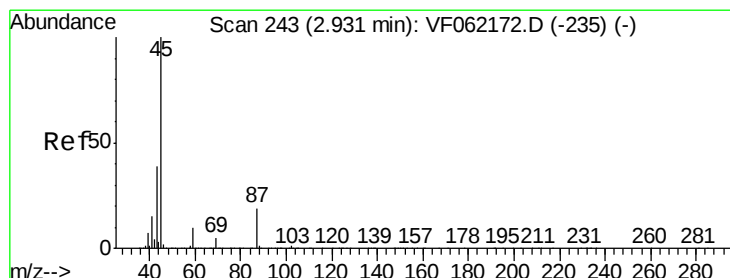
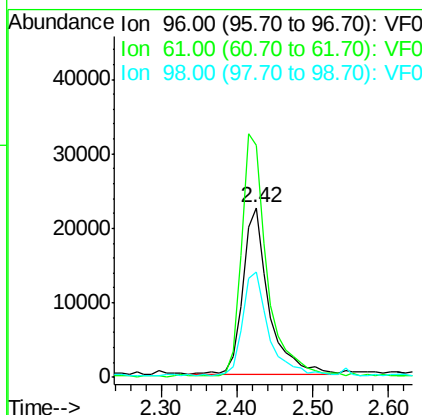
#21
trans-1,2-Dichloroethene
Concen: 11.388 ug/l
RT: 2.42 min Scan# 192
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	117.4	176.2
98	61.7	49.8	74.8

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

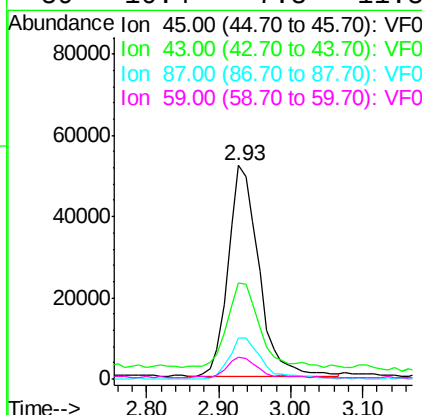
Manual Integrations
APPROVED

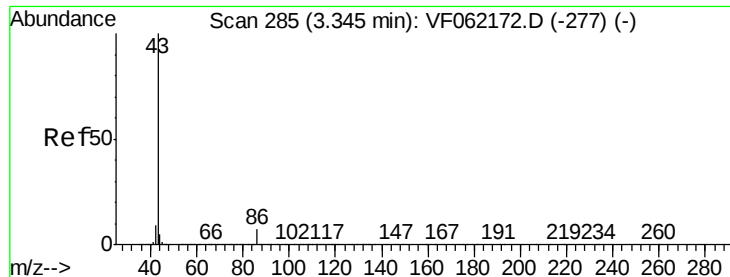
MMDadoda
4/17/2019 11:50:06 AM



#22
Diisopropyl ether
Concen: 11.266 ug/l
RT: 2.93 min Scan# 243
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
45	100		
43	45.0	32.5	48.7
87	19.4	14.9	22.3
59	10.4	7.8	11.8





#23

Vinyl Acetate

Concen: 55.408 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 377377

Ion Ratio Lower Upper

43 100

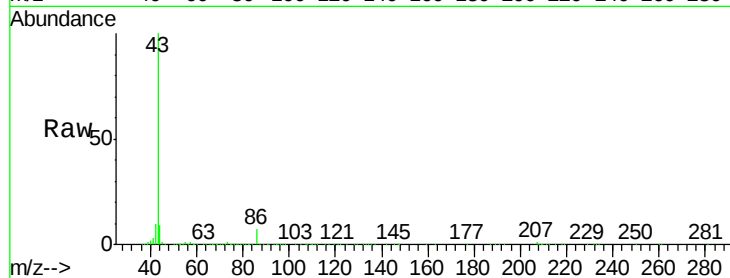
86 6.8 5.9 8.9

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.34

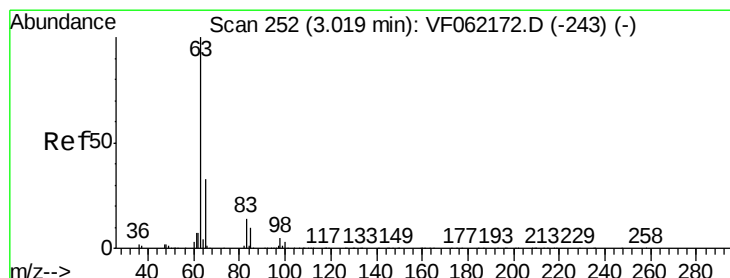
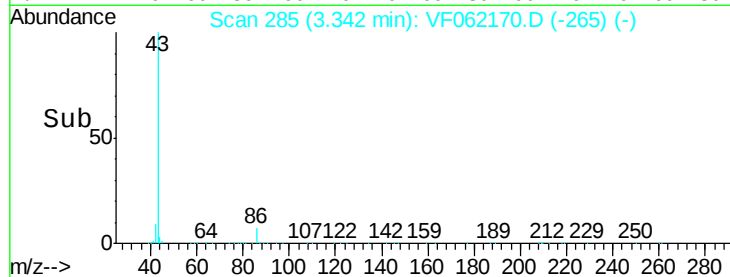
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 10.970 ug/l

RT: 3.02 min Scan# 252

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

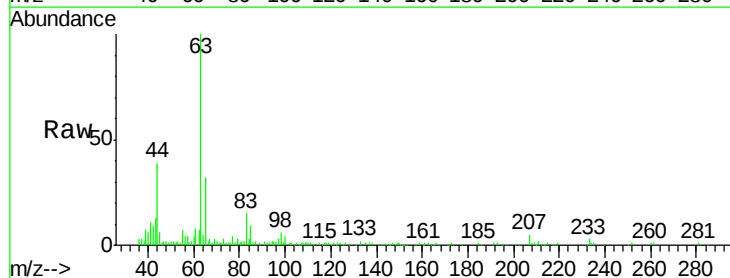
Tgt Ion: 63 Resp: 83407

Ion Ratio Lower Upper

63 100

98 6.2 2.6 8.0

100 4.2 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

3.02

40000

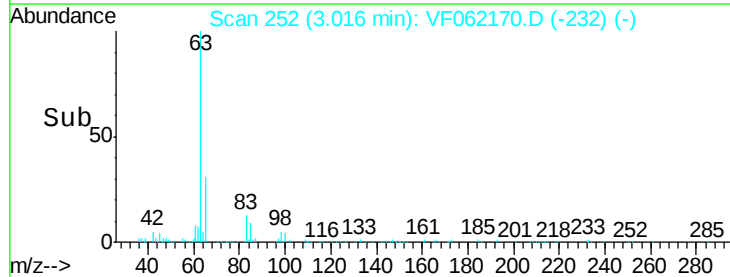
30000

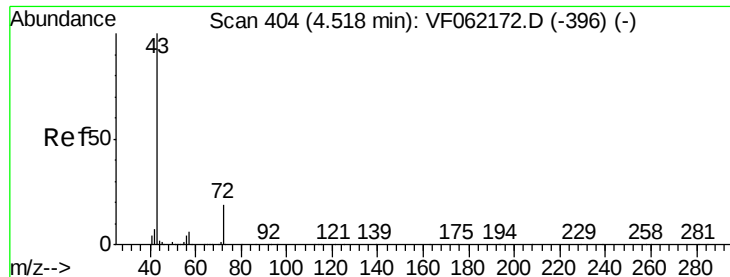
20000

10000

0

Time-->





#25

2-Butanone

Concen: 54.734 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 106139

Ion Ratio Lower Upper

43 100

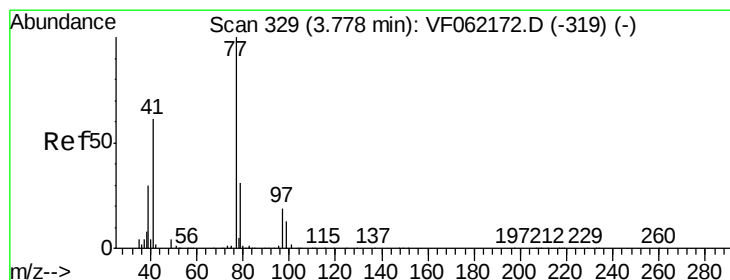
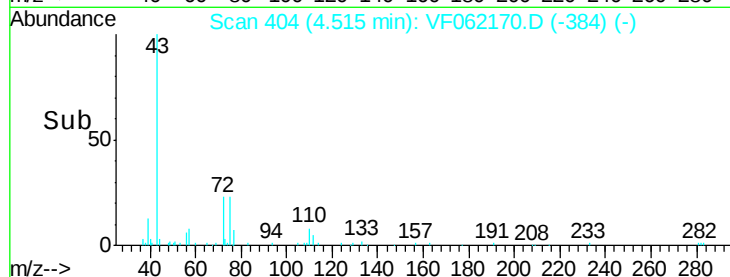
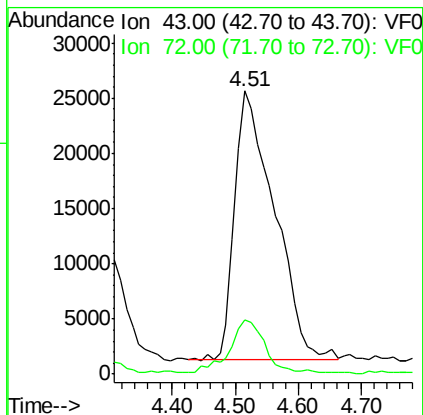
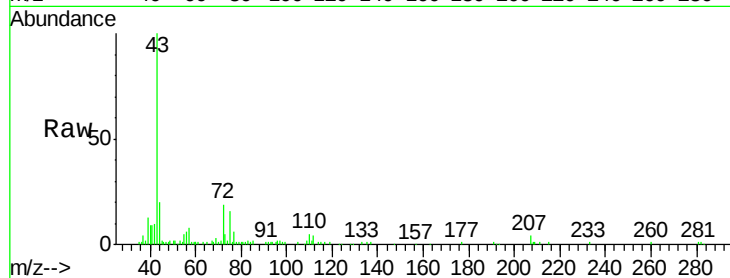
72 19.3 15.4 23.2

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#26

2,2-Dichloropropane

Concen: 11.442 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.00 min

Lab File: VF062170.D

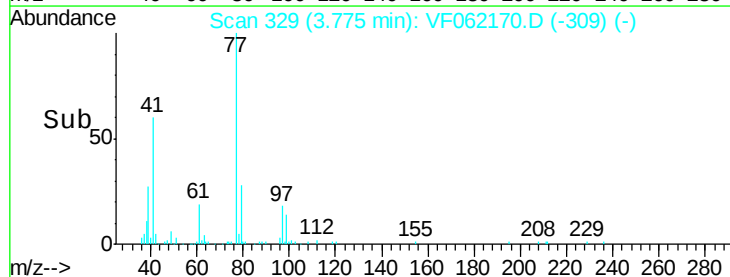
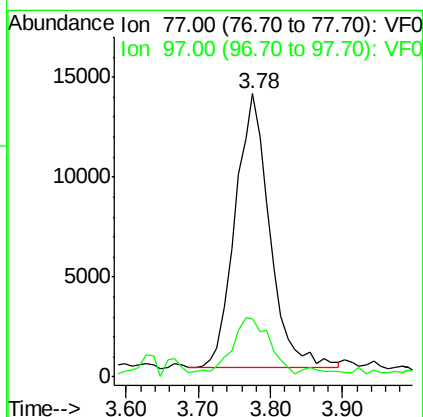
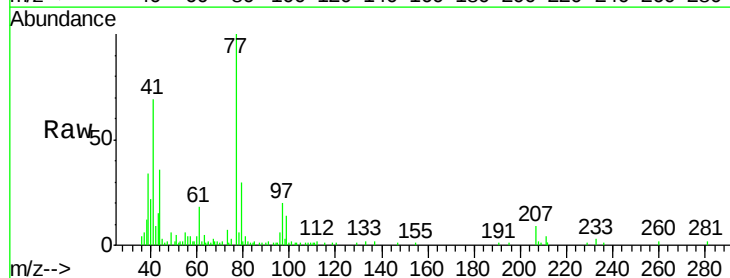
Acq: 16 Apr 2019 11:18

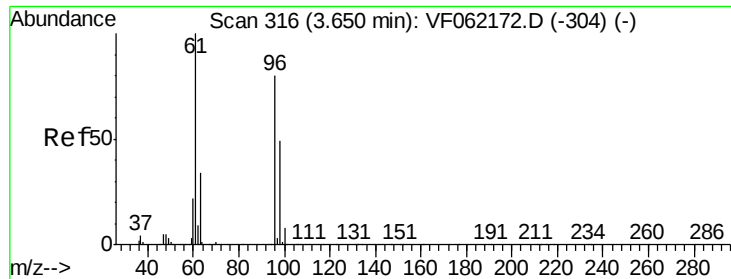
Tgt Ion: 77 Resp: 45762

Ion Ratio Lower Upper

77 100

97 20.5 10.3 30.9





#27

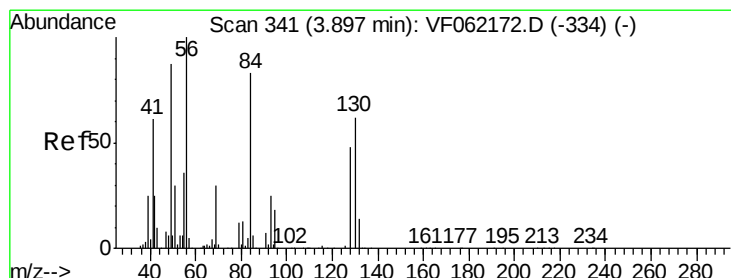
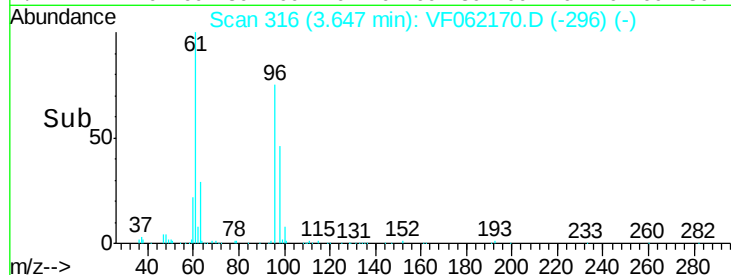
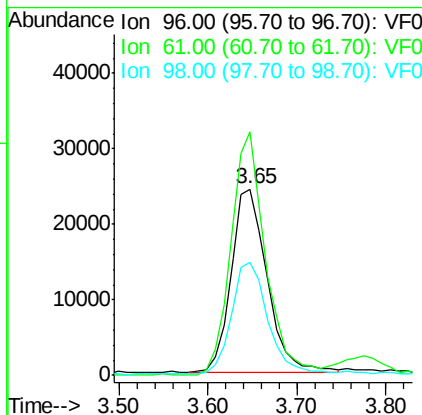
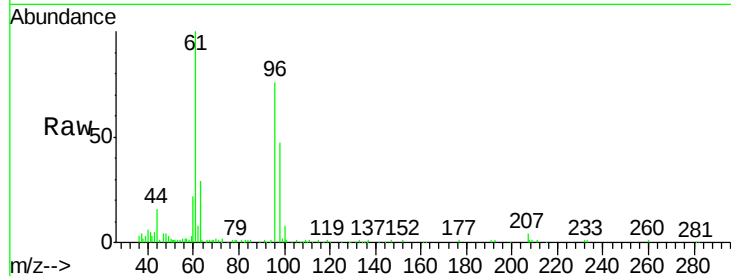
cis-1,2-Dichloroethene
Concen: 11.100 ug/l
RT: 3.65 min Scan# 316
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.7	0.0	248.2
98	61.0	0.0	122.4

Manual Integrations
APPROVED

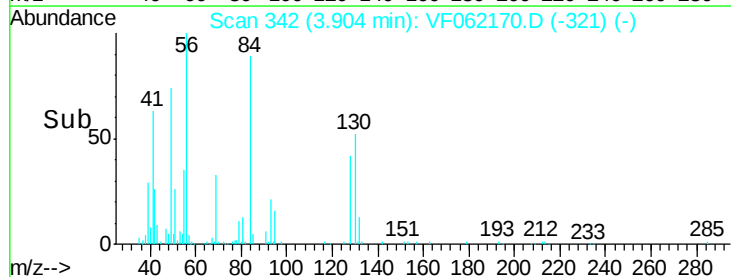
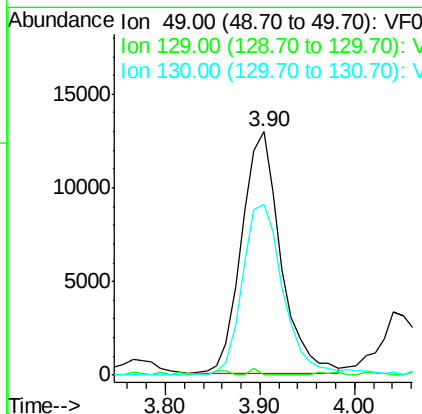
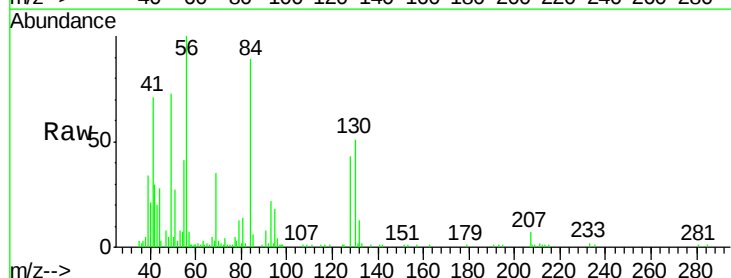
MMDadoda
4/17/2019 11:50:06 AM

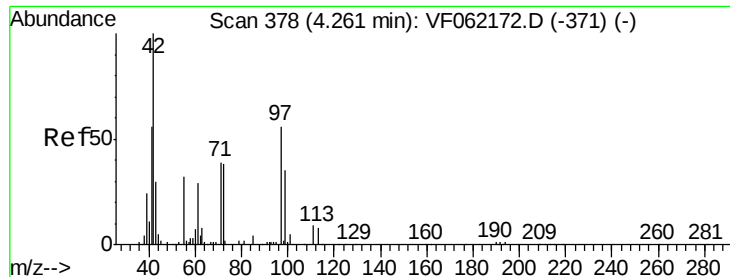


#28

Bromochloromethane
Concen: 10.133 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	69.9	56.5	84.7





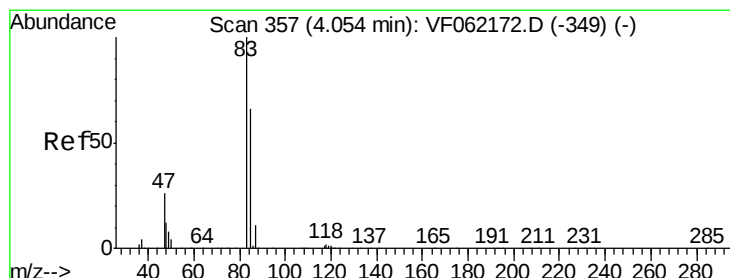
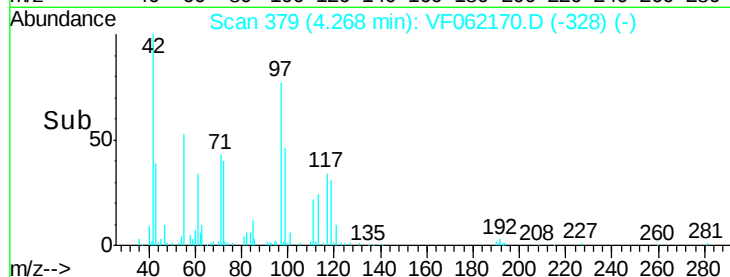
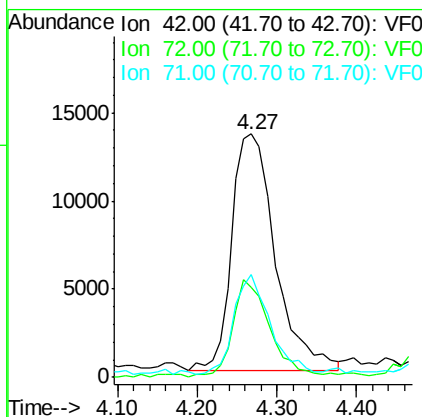
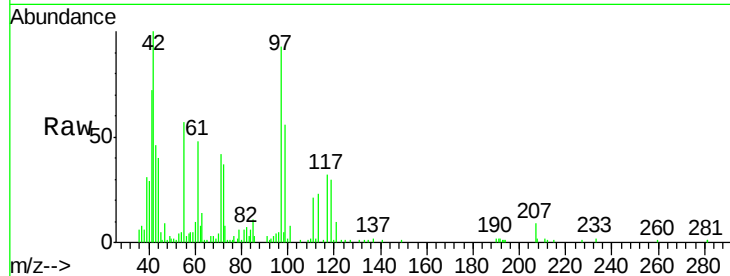
#29
Tetrahydrofuran
Concen: 58.733 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.3	28.7	43.1
71	34.6	30.8	46.2

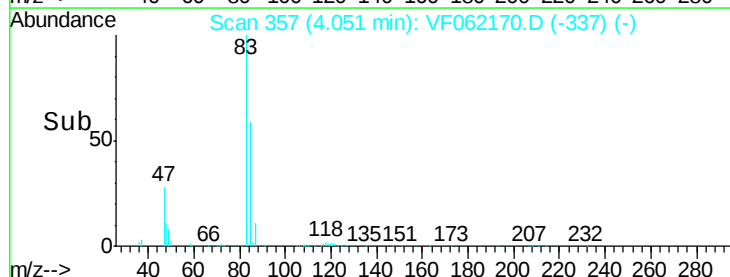
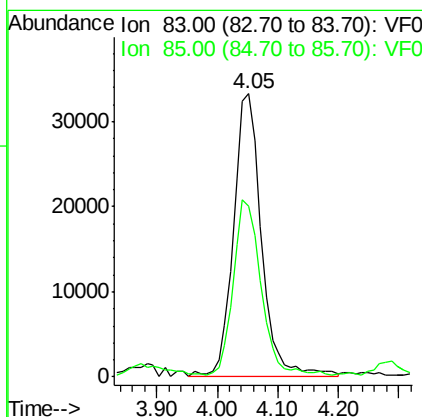
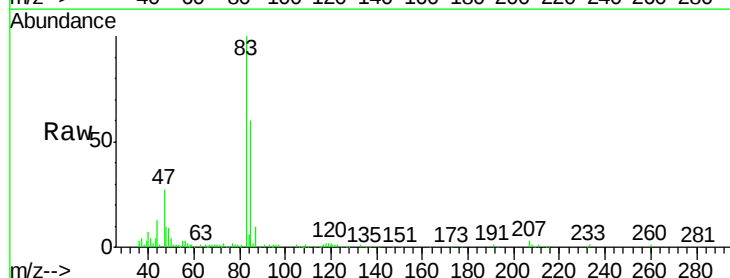
Manual Integrations
APPROVED

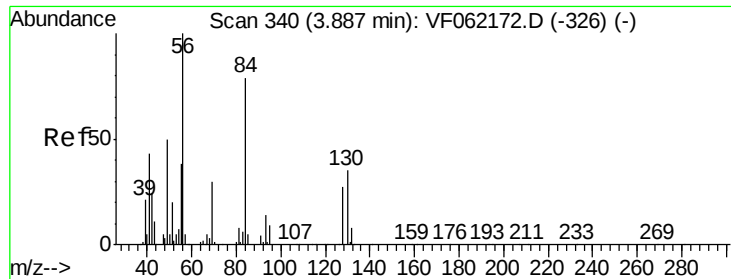
MMDadoda
4/17/2019 11:50:06 AM



#30
Chloroform
Concen: 11.376 ug/l
RT: 4.05 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.2	53.5	80.3





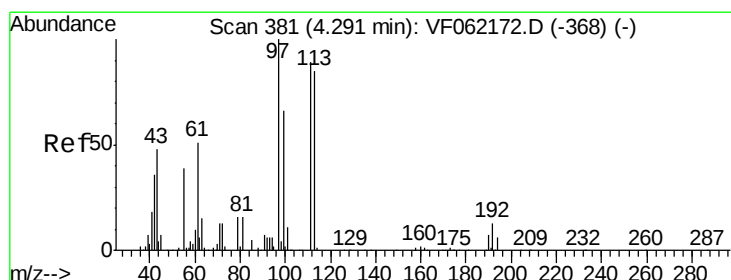
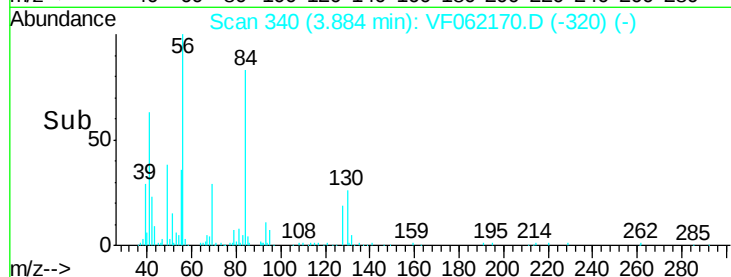
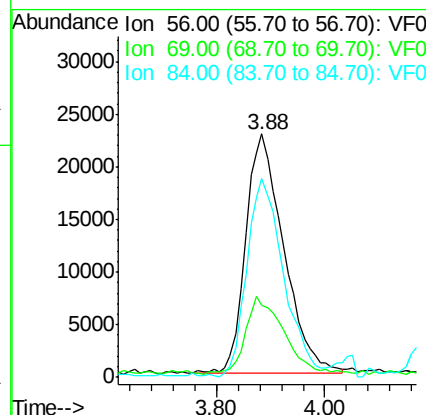
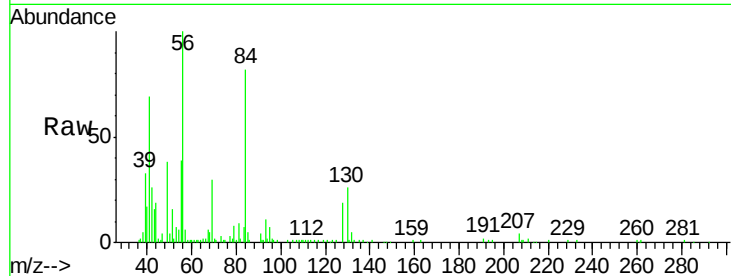
#31
Cyclohexane
Concen: 11.396 ug/l
RT: 3.88 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	56	Resp	111856
Ion Ratio	Lower	Upper	
56	100		
69	29.8	24.4	36.6
84	81.8	63.4	95.2

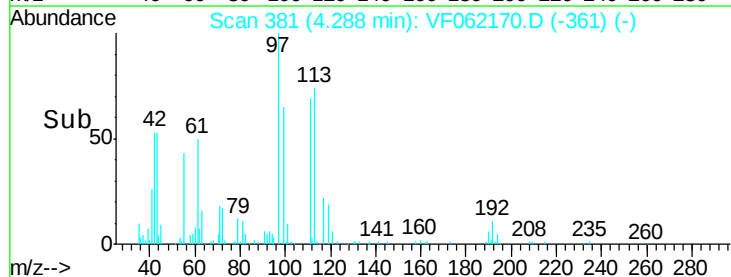
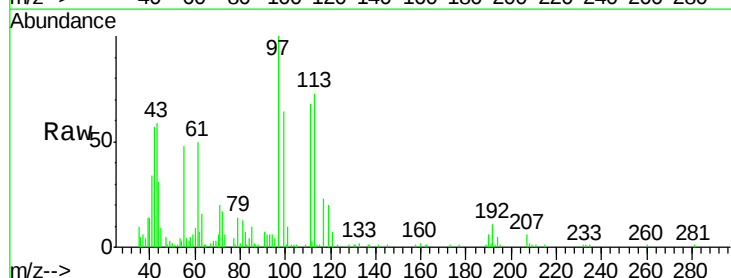
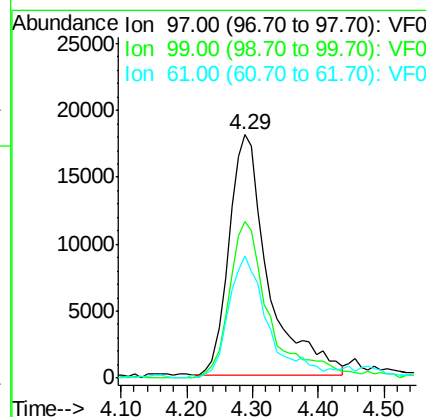
Manual Integrations
APPROVED

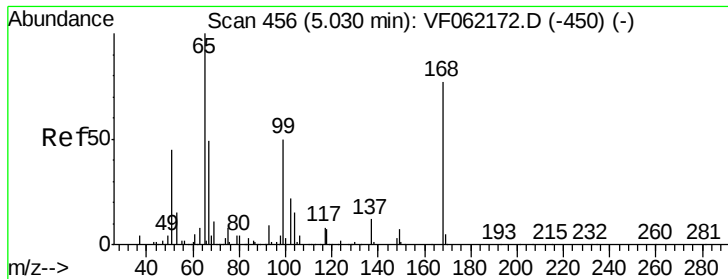
MMDadoda
4/17/2019 11:50:06 AM



#32
1,1,1-Trichloroethane
Concen: 11.680 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	97	Resp	75290
Ion Ratio	Lower	Upper	
97	100		
99	64.4	52.3	78.5
61	50.1	40.9	61.3





#33

1,2-Dichloroethane-d4

Concen: 10.199 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 65 Resp: 40822

Ion Ratio Lower Upper

65 100

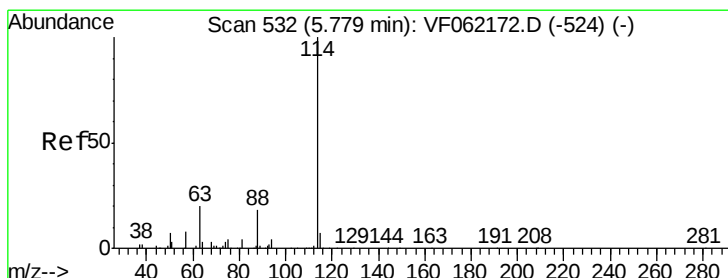
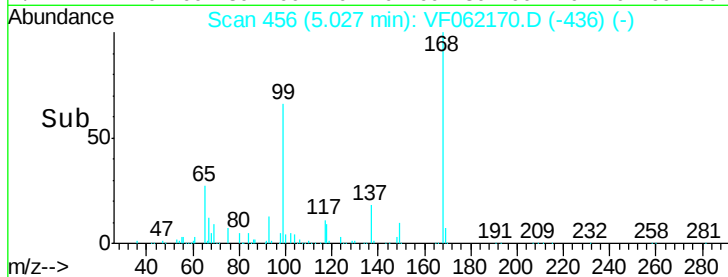
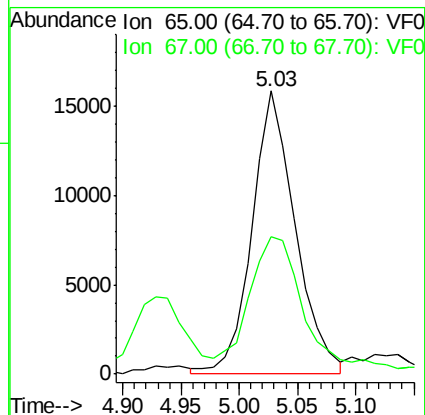
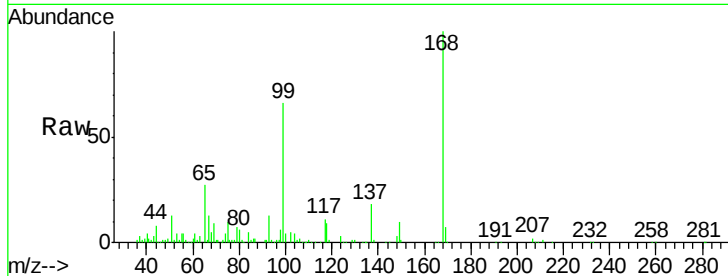
67 48.5 0.0 107.8

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

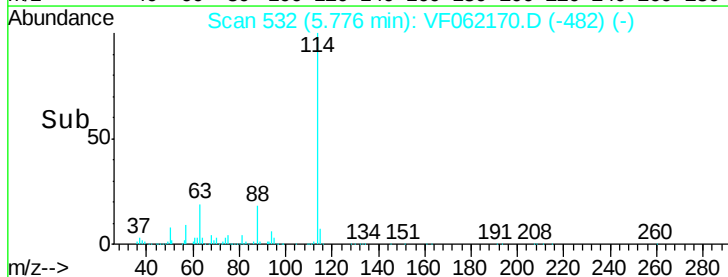
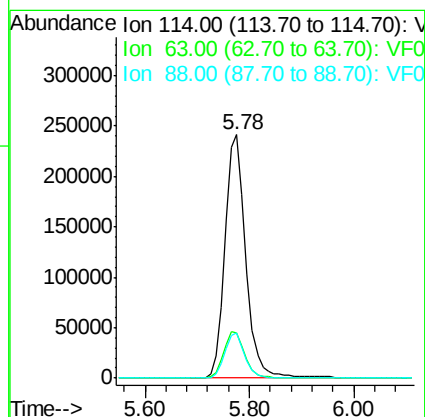
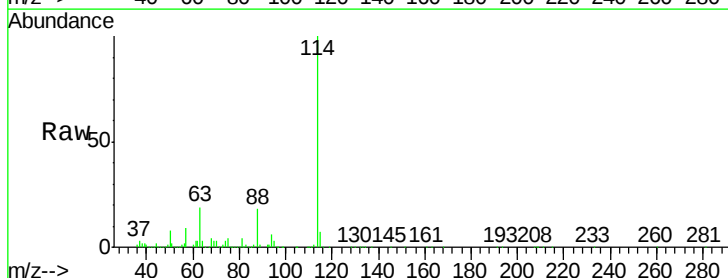
Tgt Ion:114 Resp: 666333

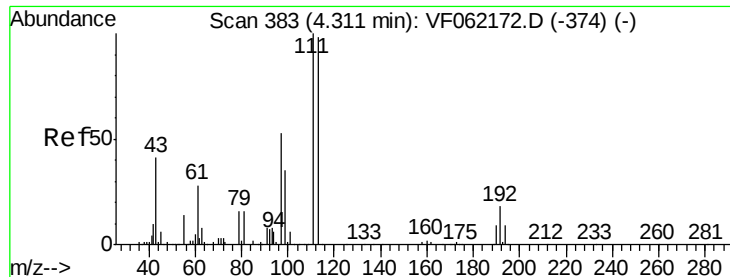
Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

88 18.4 0.0 36.6





#35

Dibromofluoromethane

Concen: 10.728 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

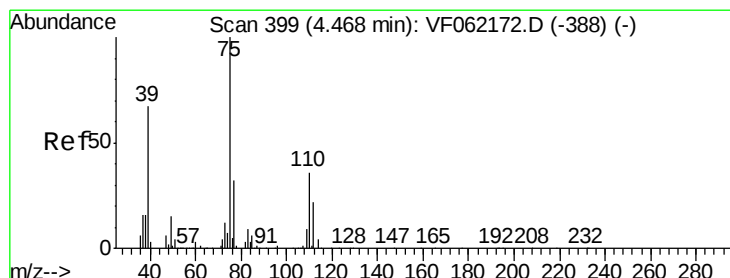
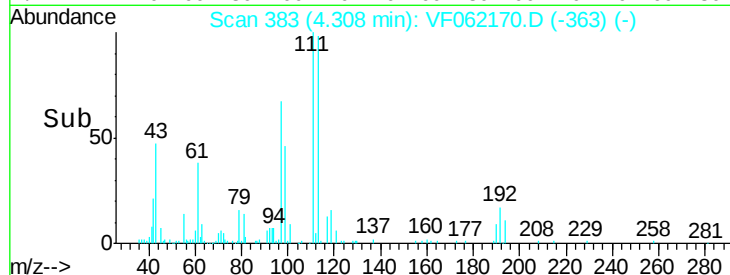
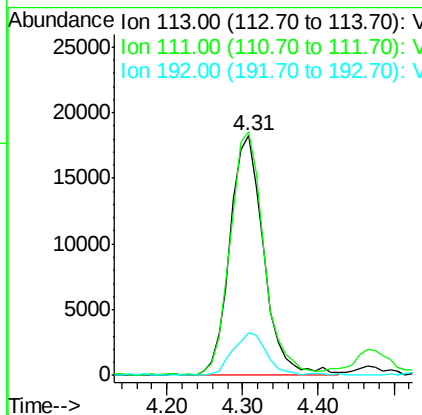
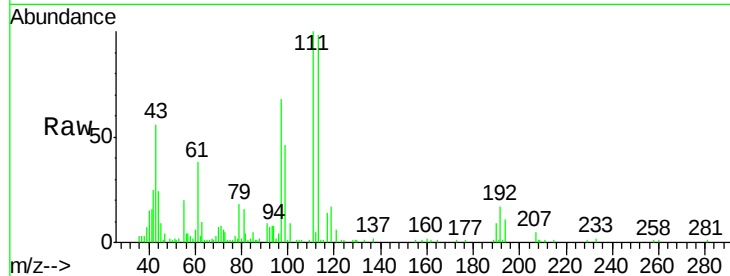
ClientSampleId :

VSTDIC010

Tot Ion:	113	Resp:	56390
Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.6	122.4
192	17.6	15.0	22.4

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#36

1,1-Dichloropropene

Concen: 11.790 ug/l

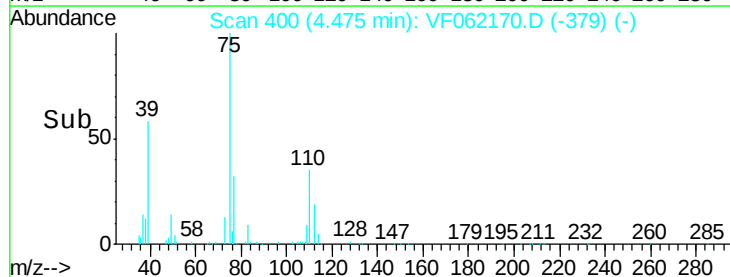
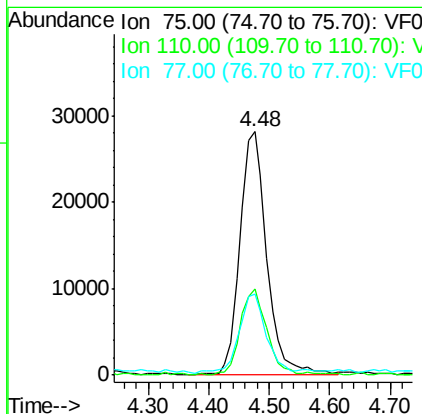
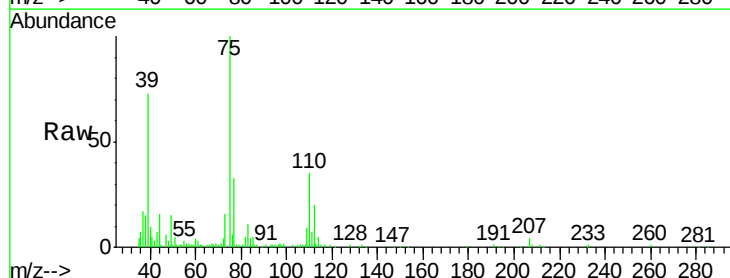
RT: 4.48 min Scan# 400

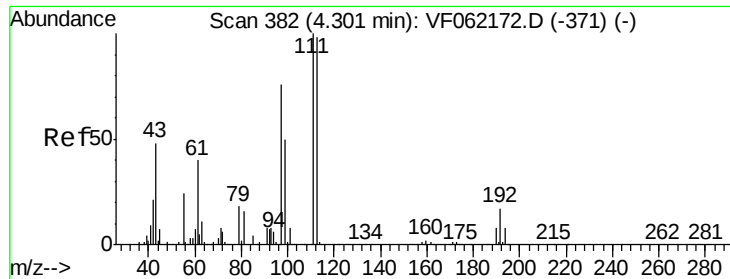
Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	75	Resp:	87287
Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.9	53.8
77	33.2	25.6	38.4





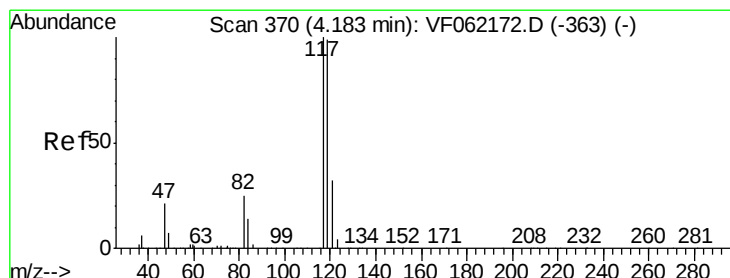
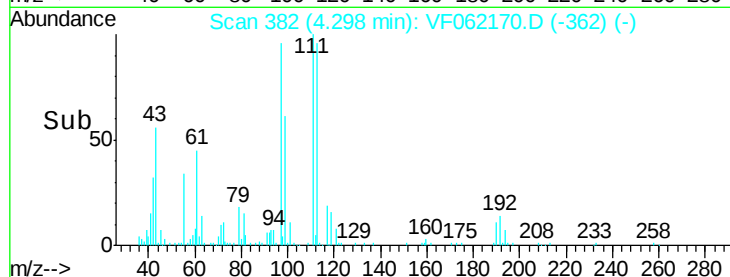
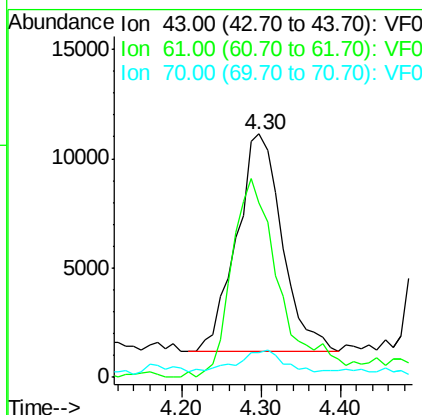
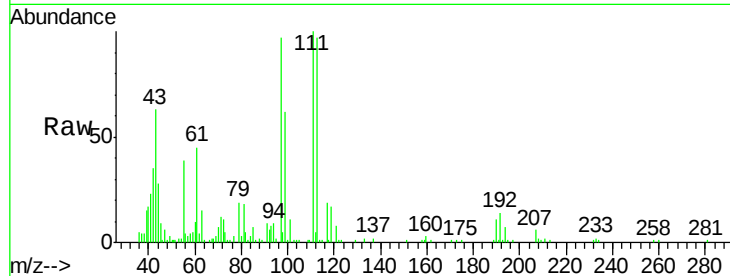
#37
Ethyl Acetate
Concen: 11.585 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	71.8	64.9	97.3
70	10.4	7.8	11.8

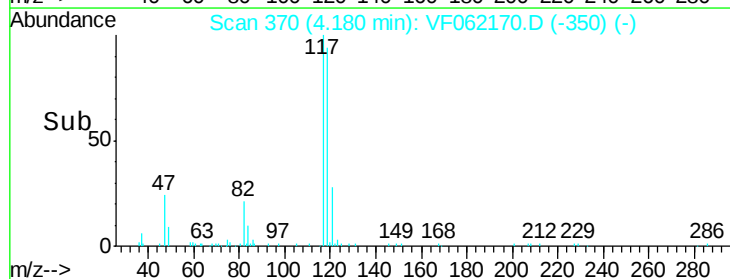
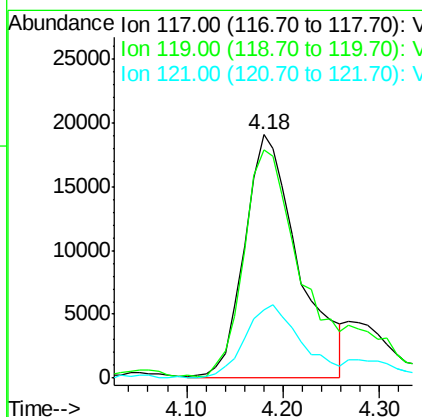
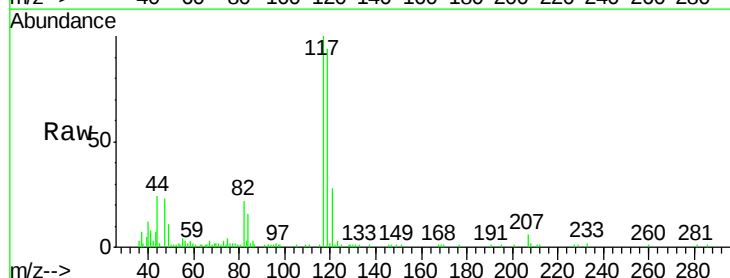
Manual Integrations
APPROVED

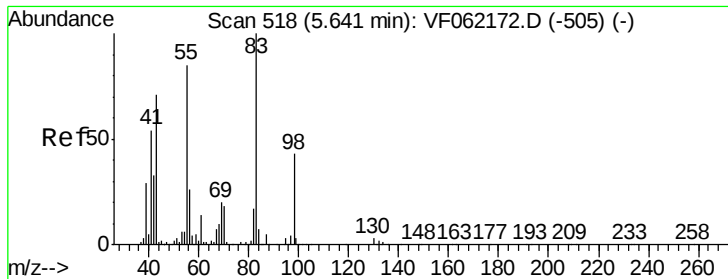
MMDadoda
4/17/2019 11:50:06 AM



#38
Carbon Tetrachloride
Concen: 11.505 ug/l m
RT: 4.18 min Scan# 370
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	78.9	118.3
121	27.9	25.3	37.9





#39

Methvlcvclohexane

Concen: 11.330 ug/l

RT: 5.64 min Scan# 518

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

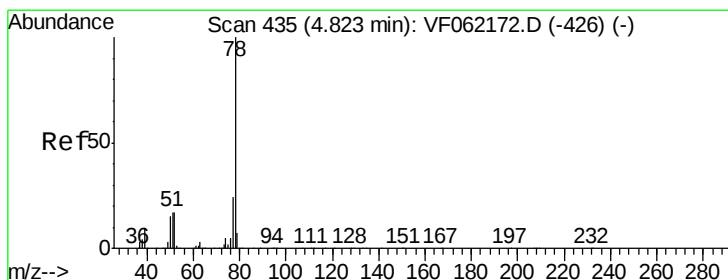
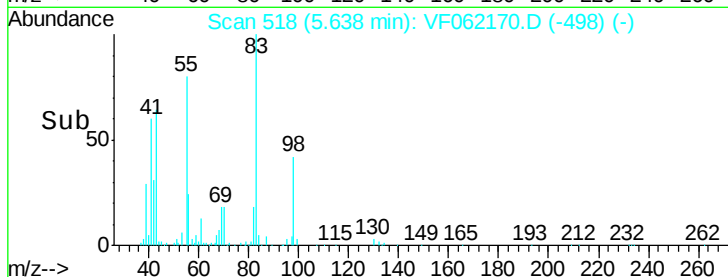
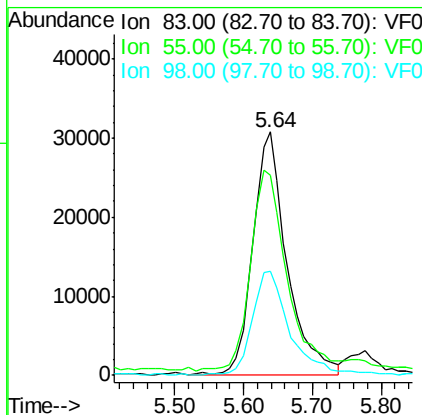
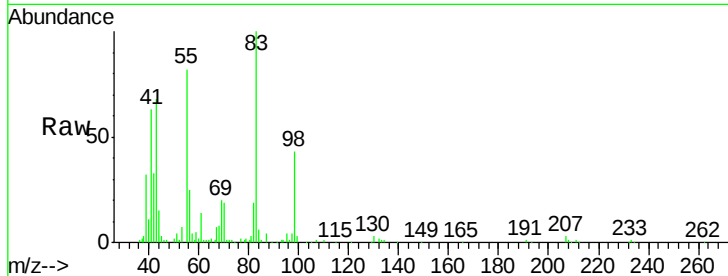
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	105115
Ion Ratio	Lower	Upper	
83	100		
55	82.3	68.2	102.2
98	42.8	34.4	51.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#40

Benzene

Concen: 11.620 ug/l

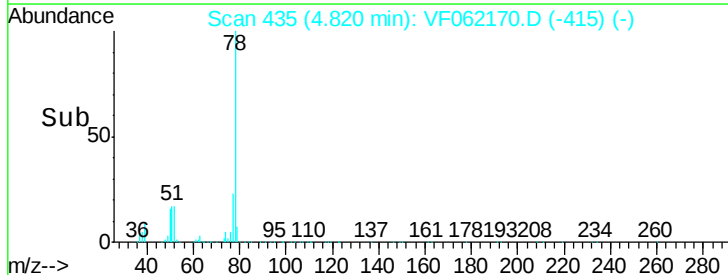
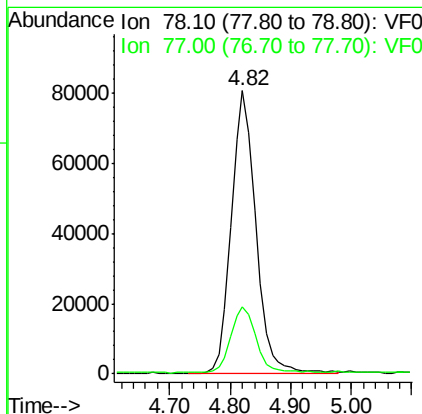
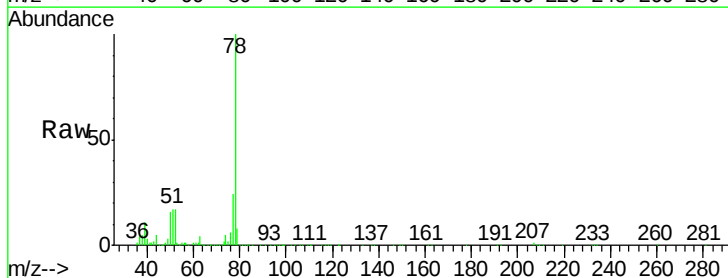
RT: 4.82 min Scan# 435

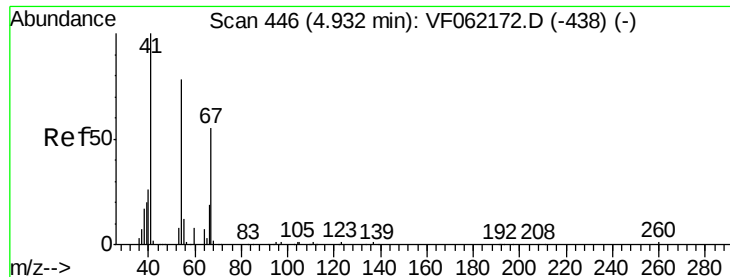
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	78	Resp:	227242
Ion Ratio	Lower	Upper	
78	100		
77	23.8	19.1	28.7





#41

Methacrylonitrile

Concen: 11.129 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 41 Resp: 22812

Ion Ratio Lower Upper

41 100

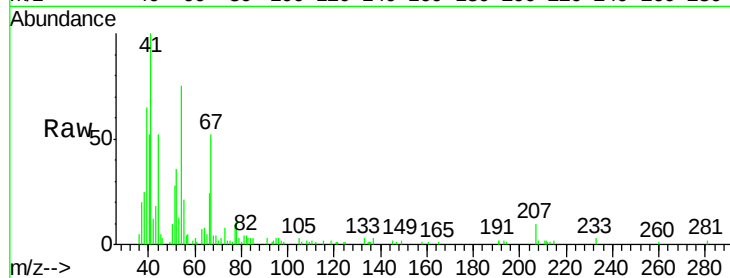
39 64.6 43.5 65.3

67 52.1 42.9 64.3

52 35.5 30.4 45.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM

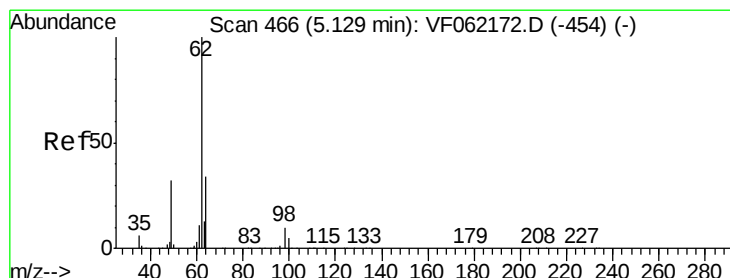
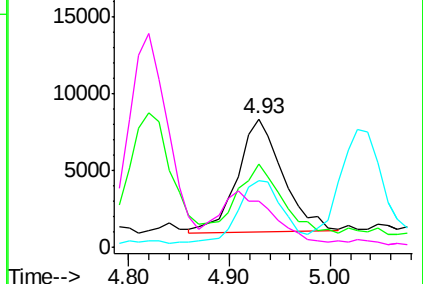
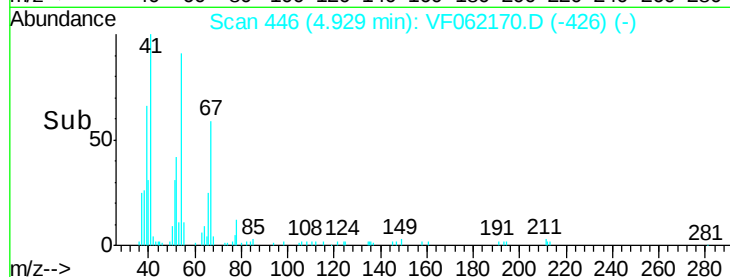


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 11.131 ug/l

RT: 5.13 min Scan# 466

Delta R.T. -0.00 min

Lab File: VF062170.D

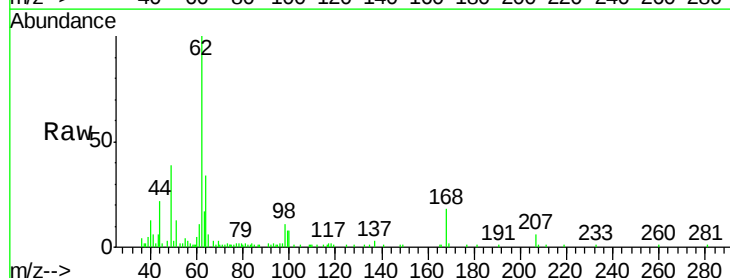
Acq: 16 Apr 2019 11:18

Tgt Ion: 62 Resp: 55093

Ion Ratio Lower Upper

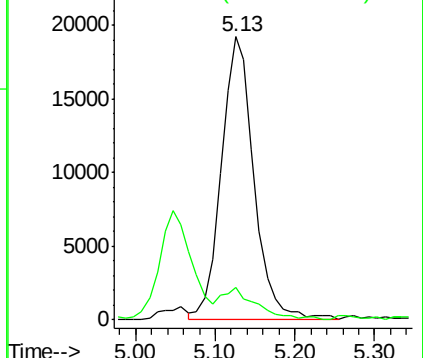
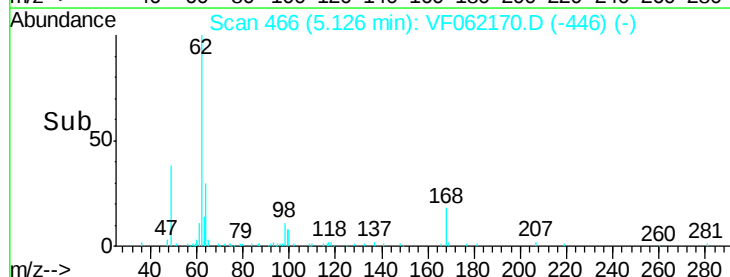
62 100

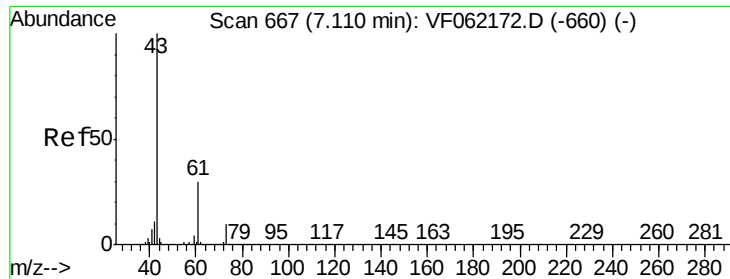
98 11.4 0.0 22.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

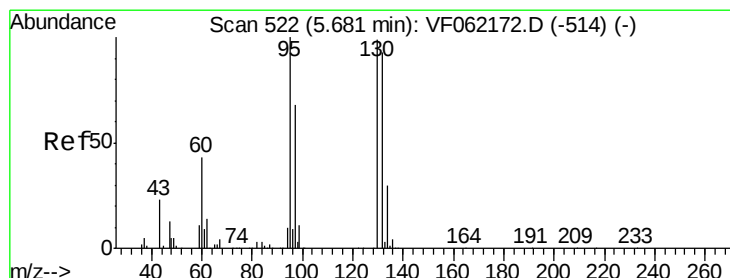
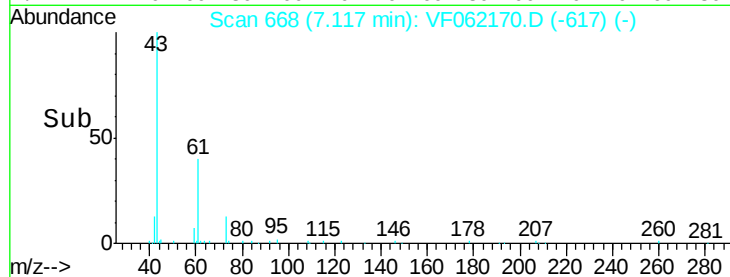
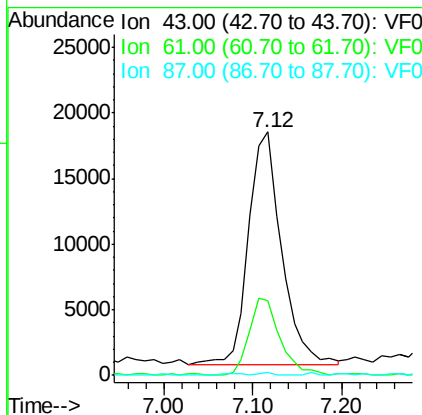
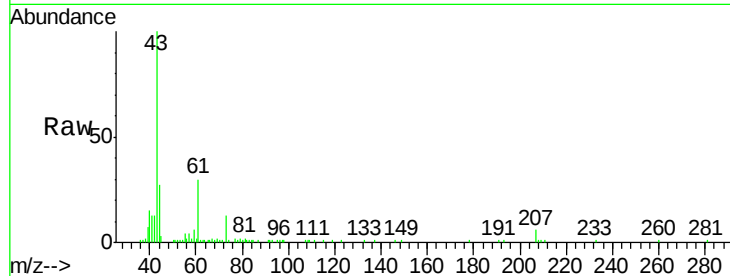
Isopropyl Acetate
 Concen: 11.449 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.7	35.5
87	1.0	0.3	0.5

Manual Integrations
 APPROVED

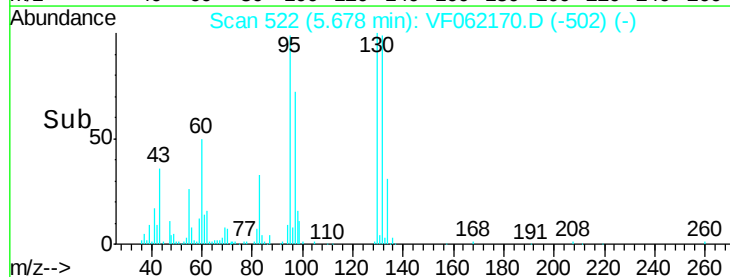
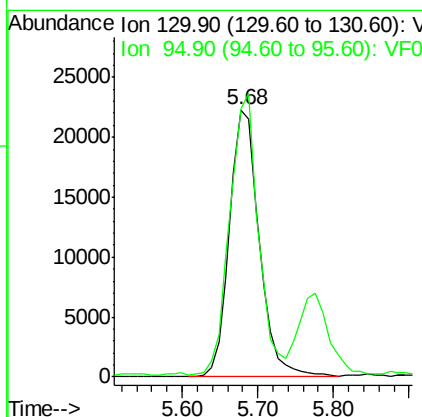
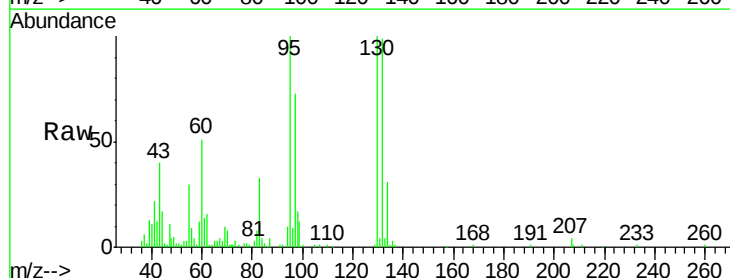
MMDadoda
 4/17/2019 11:50:06 AM

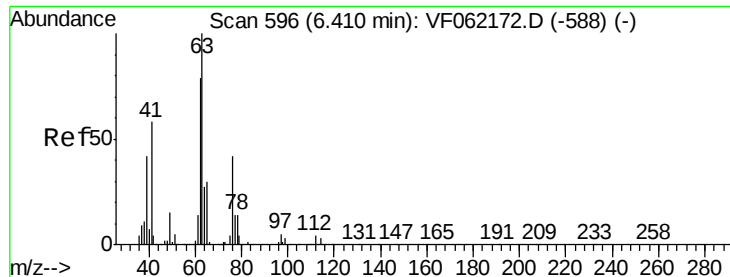


#44

Trichloroethene
 Concen: 11.607 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	202.2





#45

1,2-Dichloropropane

Concen: 11.293 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 54180

Ion Ratio Lower Upper

63 100

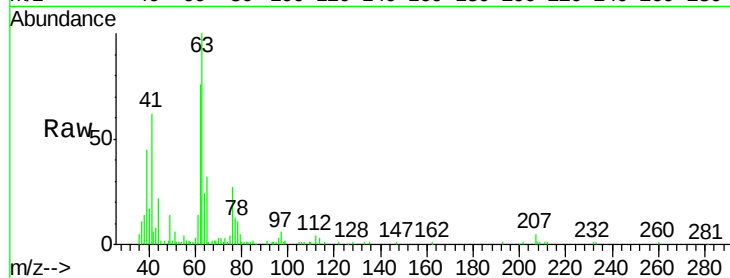
65 32.3 23.7 35.5

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

25000

20000

15000

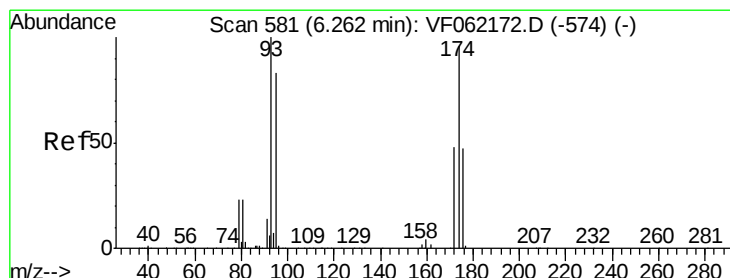
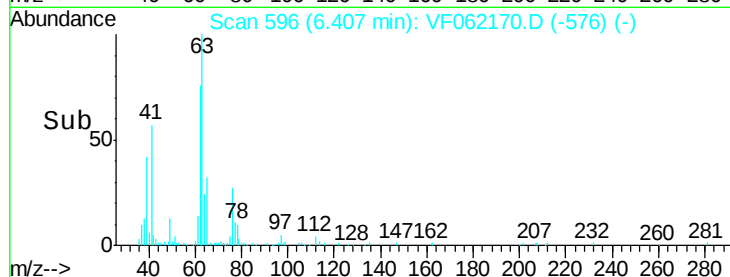
10000

5000

0

6.30 6.40 6.50

Time-->



#46

Dibromomethane

Concen: 10.808 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

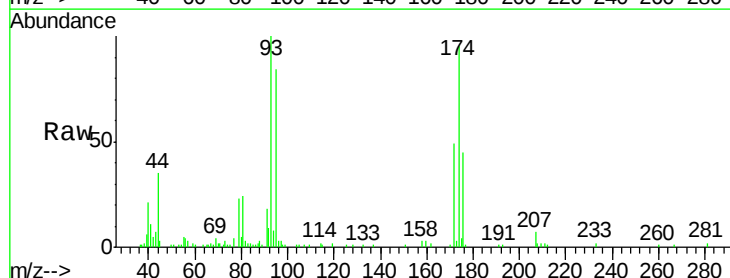
Tgt Ion: 93 Resp: 31267

Ion Ratio Lower Upper

93 100

95 84.0 67.0 100.6

174 95.0 76.3 114.5



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

15000

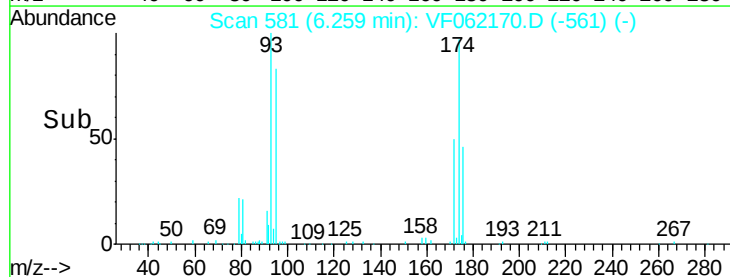
10000

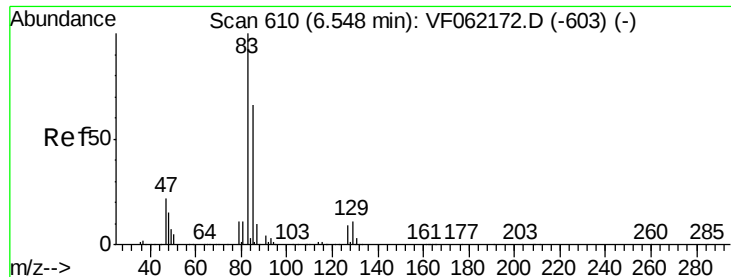
5000

0

6.10 6.20 6.30

Time-->





#47

Bromodichloromethane

Concen: 11.379 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

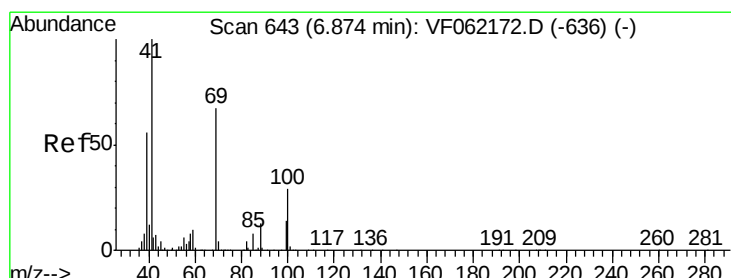
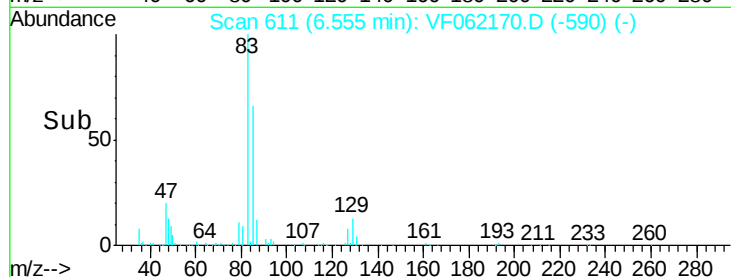
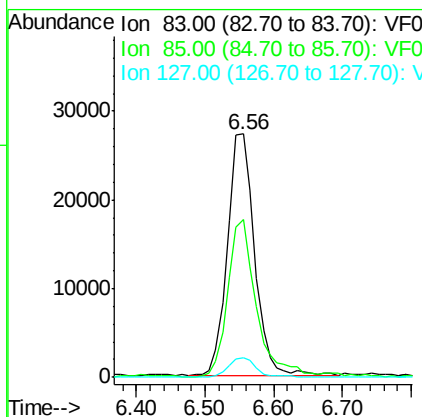
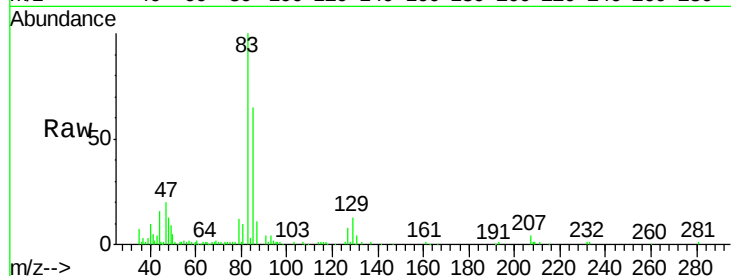
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	74576
Ion Ratio	Lower	Upper	
83	100		
85	65.0	52.6	79.0
127	8.1	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#48

Methyl methacrylate

Concen: 11.033 ug/l

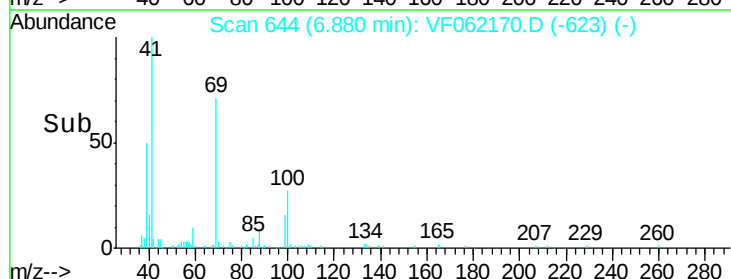
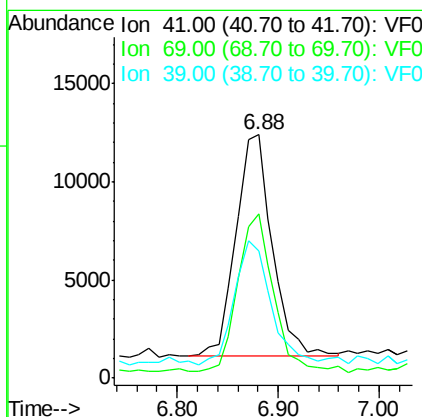
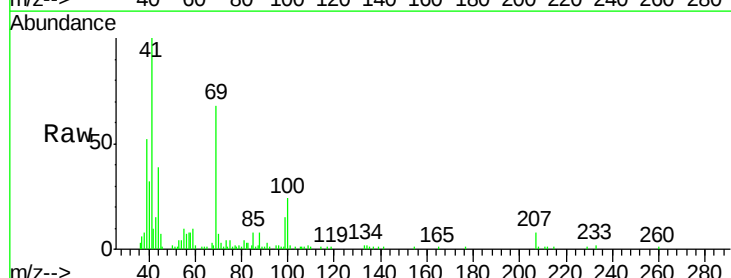
RT: 6.88 min Scan# 644

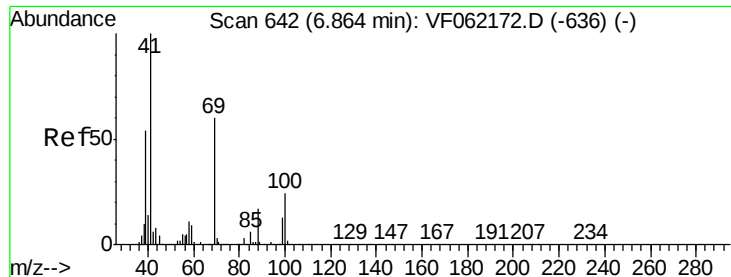
Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	41	Resp:	28472
Ion Ratio	Lower	Upper	
41	100		
69	67.6	52.8	79.2
39	52.3	45.0	67.4





#49

1,4-Dioxane

Concen: 205.824 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

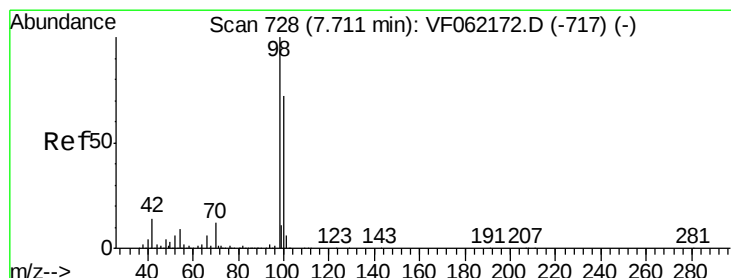
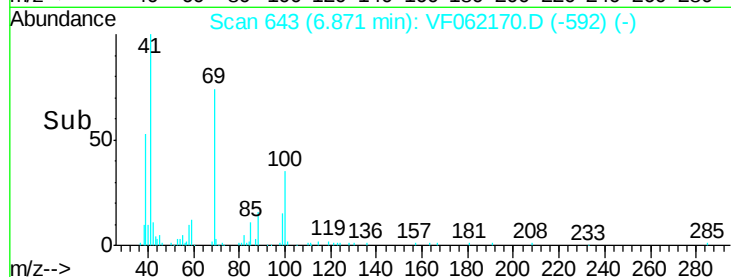
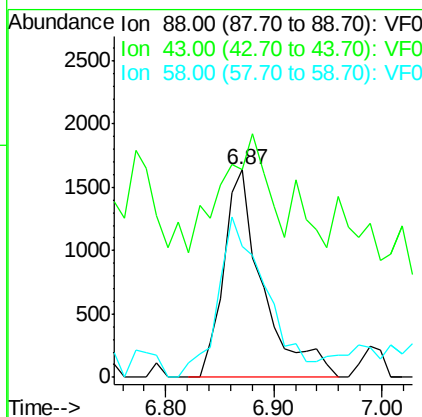
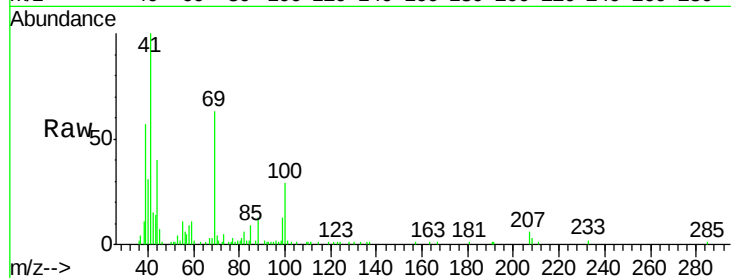
ClientSampleId :

VSTDIC010

Tot Ion:	88	Resp:	4139
Ion	Ratio	Lower	Upper
88	100		
43	100.5	49.5	74.3#
58	63.4	52.6	79.0

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#50

Toluene-d8

Concen: 10.638 ug/l

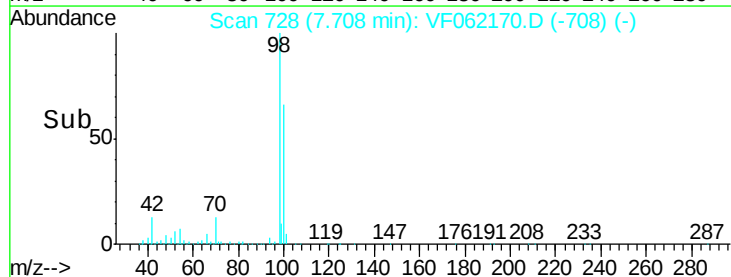
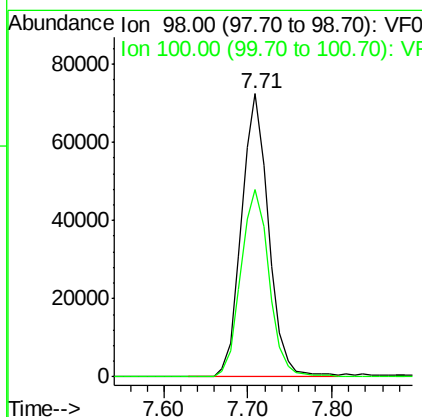
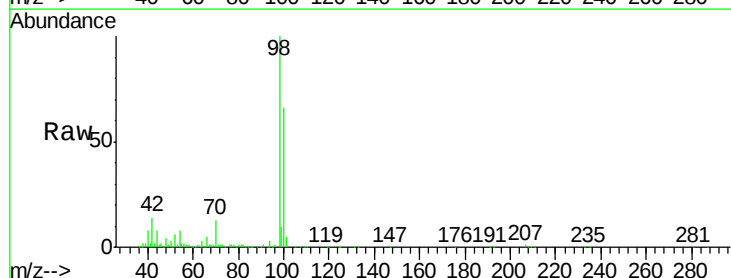
RT: 7.71 min Scan# 728

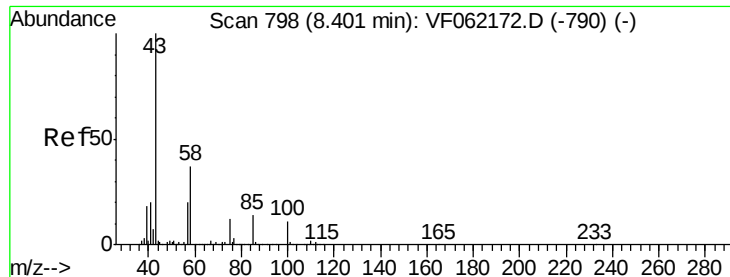
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	98	Resp:	163396
Ion	Ratio	Lower	Upper
98	100		
100	66.2	57.4	86.0





#51

4-Methyl-2-Pentanone

Concen: 58.676 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 178210

Ion Ratio Lower Upper

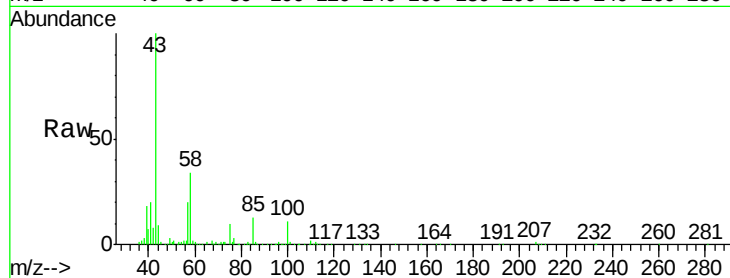
43 100

58 33.9 29.7 44.5

Manual Integrations
APPROVED

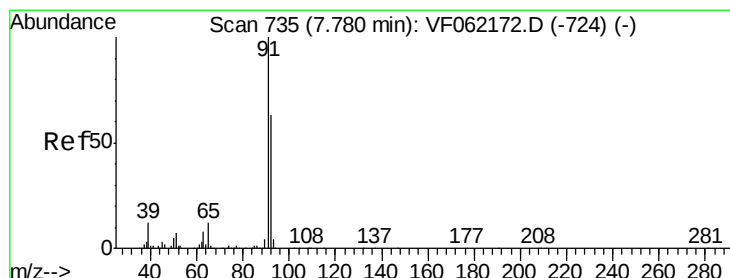
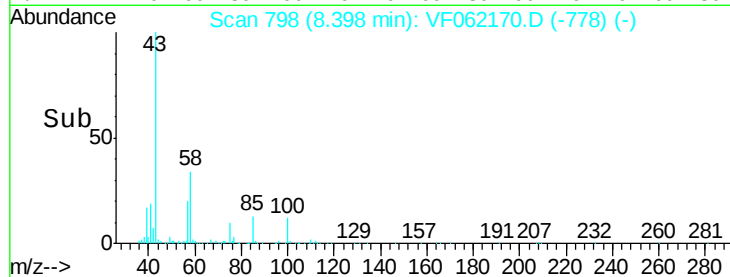
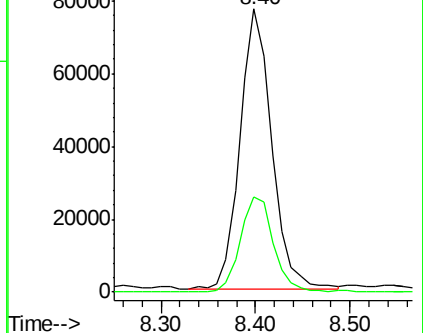
MMDadoda

4/17/2019 11:50:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 11.750 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF062170.D

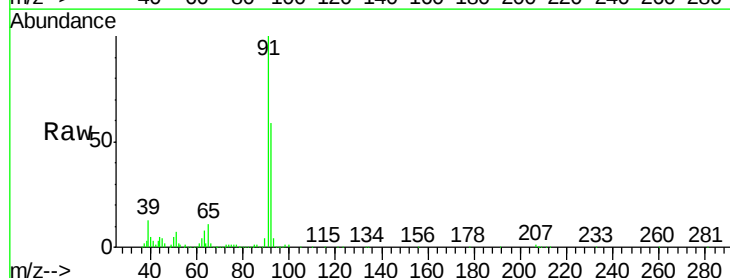
Acq: 16 Apr 2019 11:18

Tgt Ion: 92 Resp: 134987

Ion Ratio Lower Upper

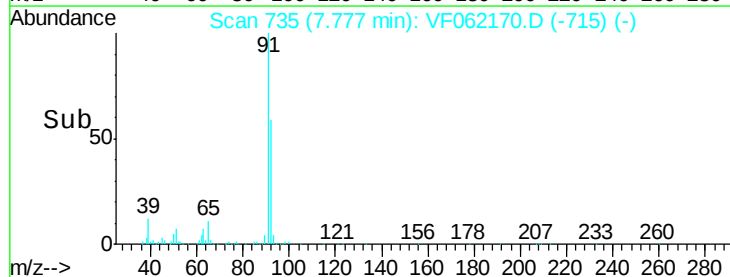
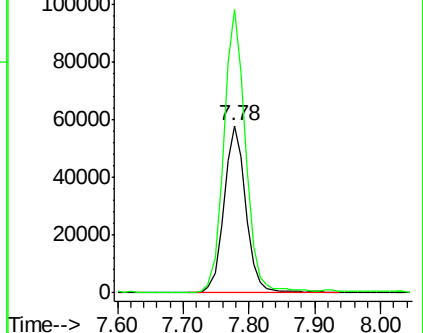
92 100

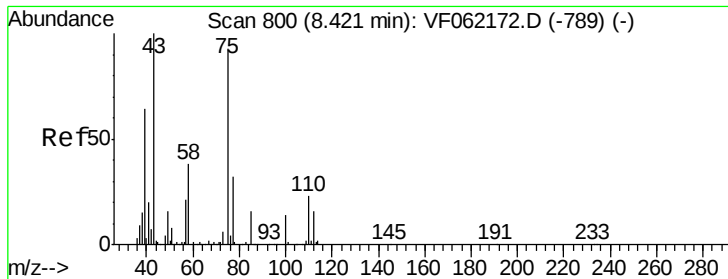
91 169.2 126.9 190.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 11.251 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 63873

Ion Ratio Lower Upper

75 100

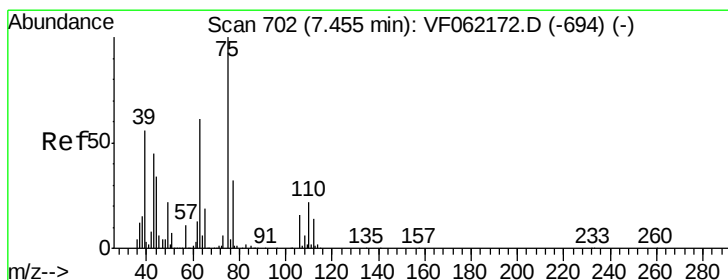
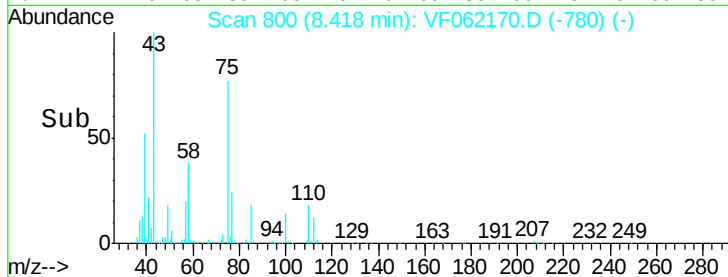
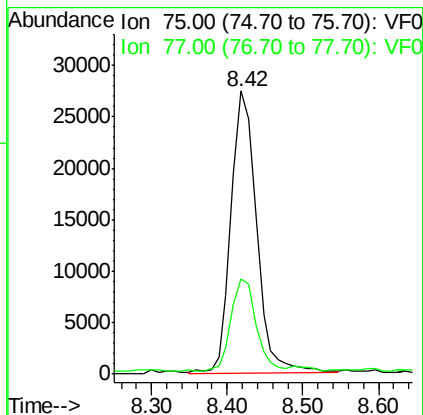
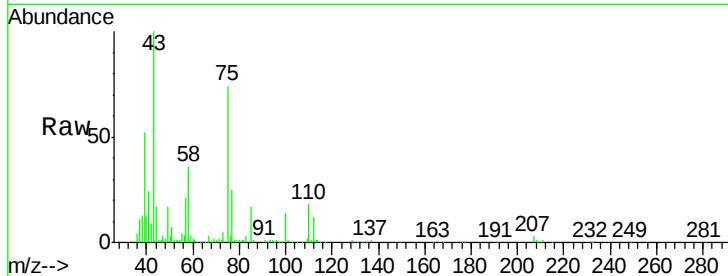
77 33.9 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#54

cis-1,3-Dichloropropene

Concen: 11.829 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

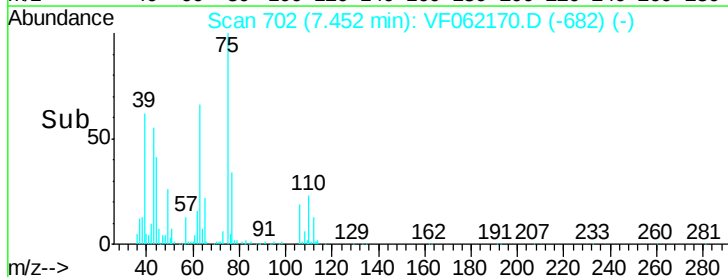
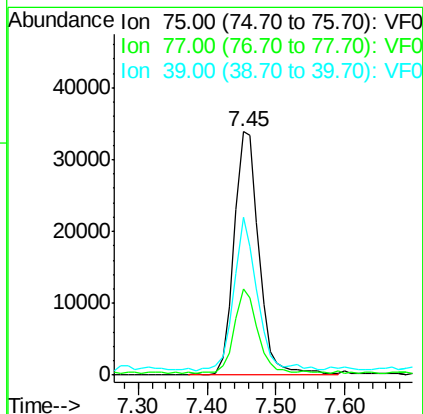
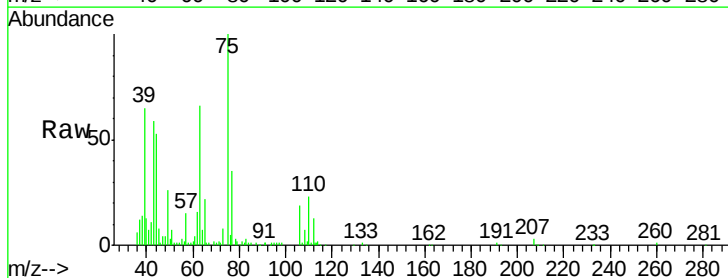
Tgt Ion: 75 Resp: 85395

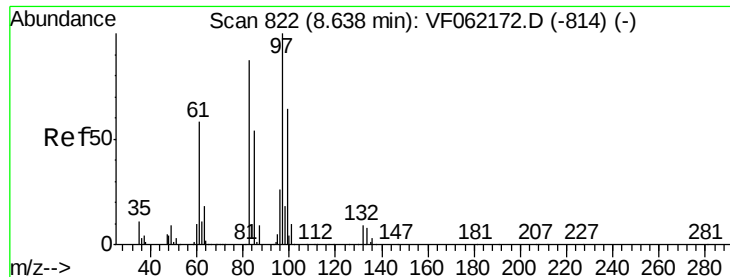
Ion Ratio Lower Upper

75 100

77 35.2 26.0 39.0

39 64.8 45.2 67.8





#55

1,1,2-Trichloroethane

Concen: 11.771 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

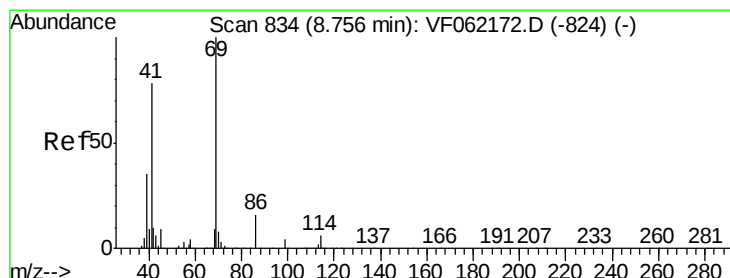
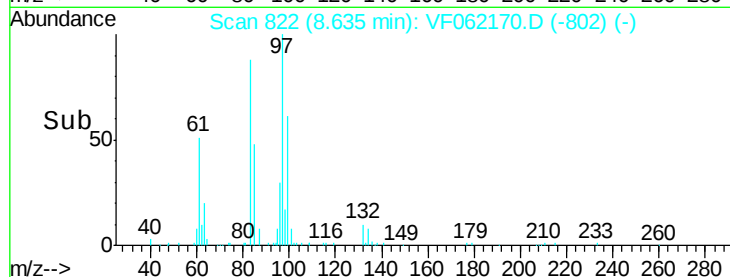
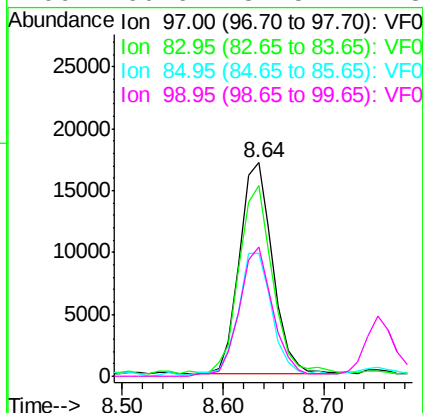
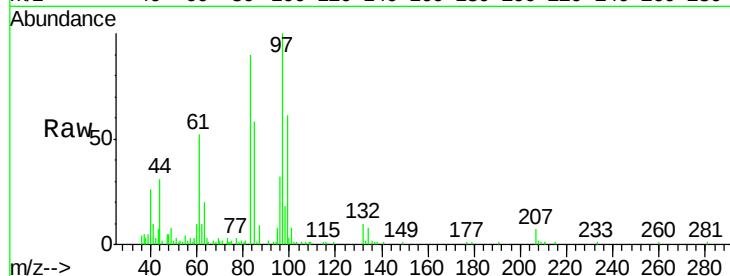
ClientSampleId :

VSTDIC010

Tot Ion:	97	Resp:	38731
Ion	Ratio	Lower	Upper
97	100		
83	89.5	69.6	104.4
85	57.7	43.5	65.3
99	60.6	51.5	77.3

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#56

Ethyl methacrylate

Concen: 12.056 ug/l

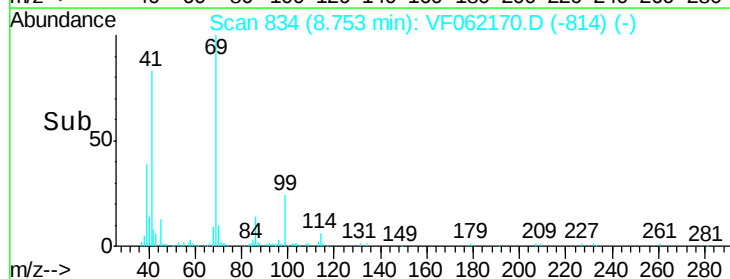
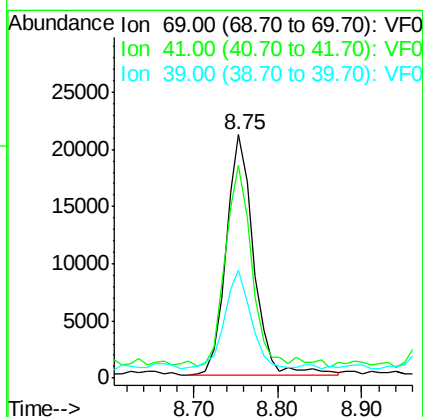
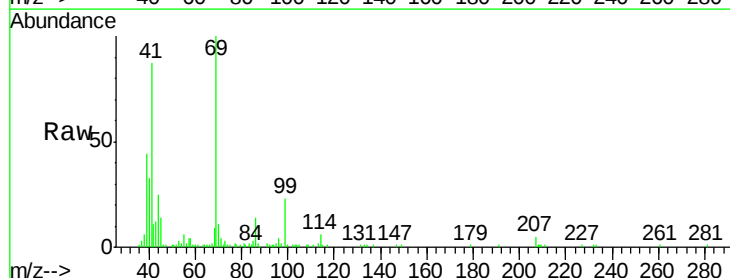
RT: 8.75 min Scan# 834

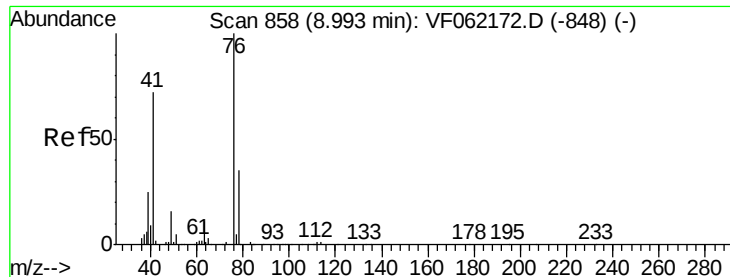
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	69	Resp:	47170
Ion	Ratio	Lower	Upper
69	100		
41	87.3	63.4	95.0
39	44.4	29.0	43.6#





#57

1,3-Dichloropropane

Concen: 11.581 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 62648

Ion Ratio Lower Upper

76 100

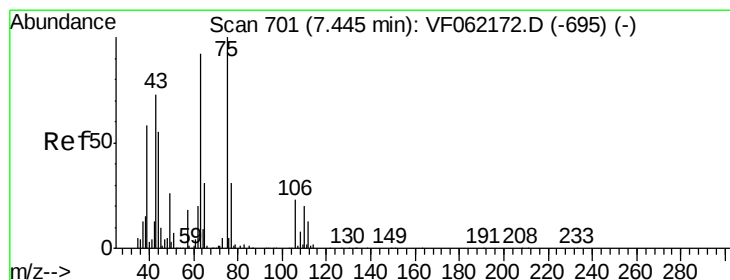
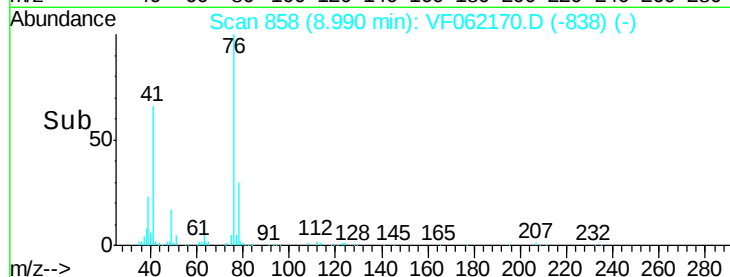
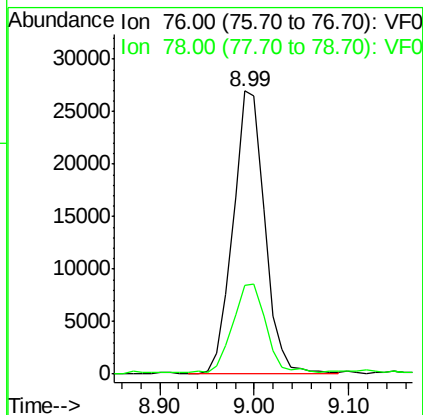
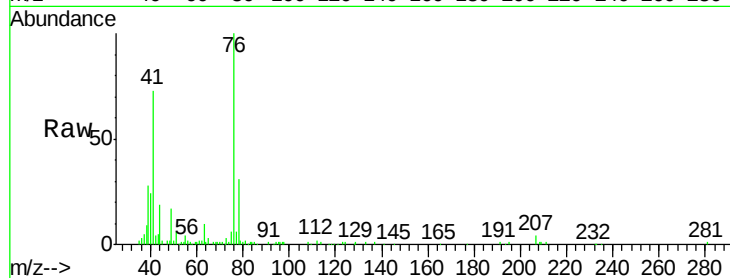
78 31.3 28.2 42.2

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#58

2-Chloroethyl Vinyl ether

Concen: 57.564 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF062170.D

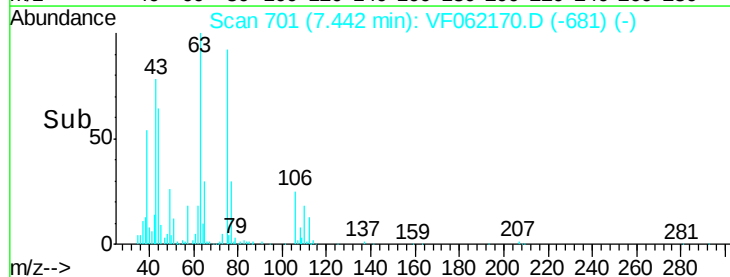
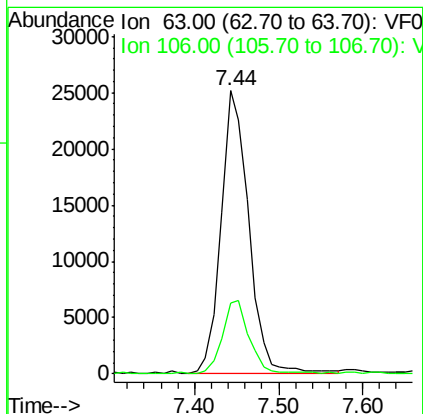
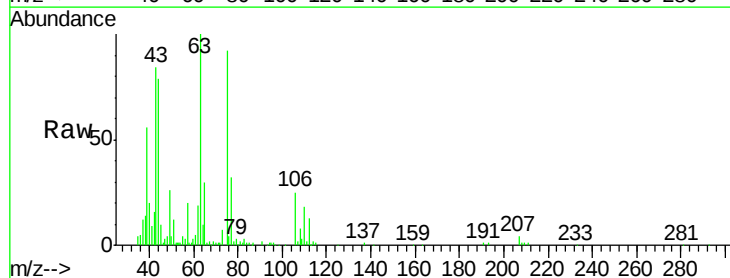
Acq: 16 Apr 2019 11:18

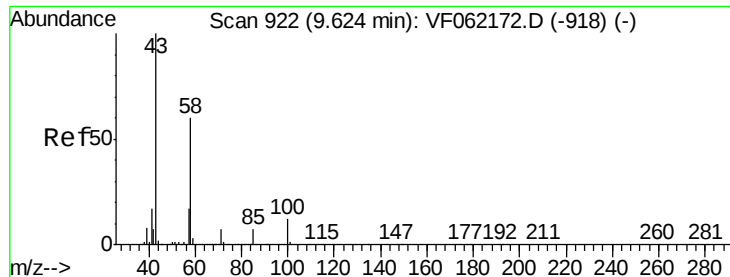
Tgt Ion: 63 Resp: 58029

Ion Ratio Lower Upper

63 100

106 25.0 20.2 30.4





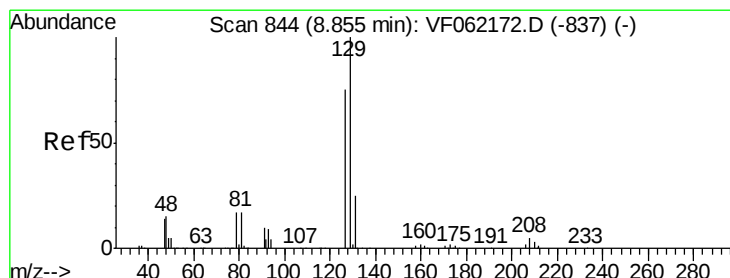
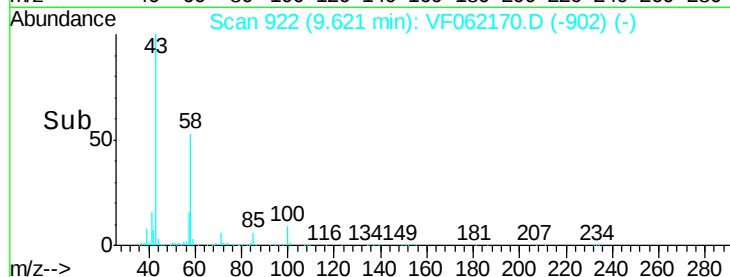
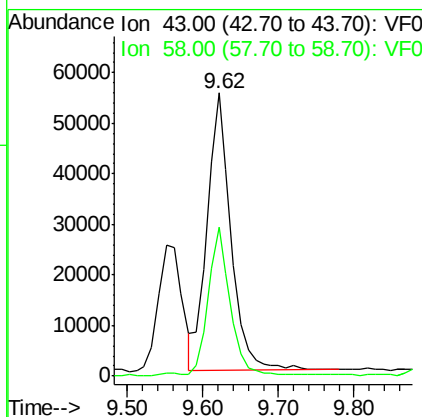
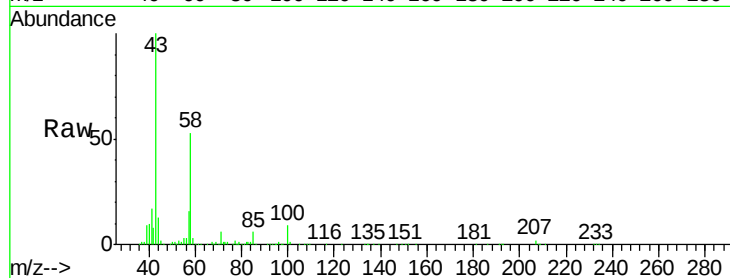
#59
2-Hexanone
Concen: 62.592 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.8	80.4

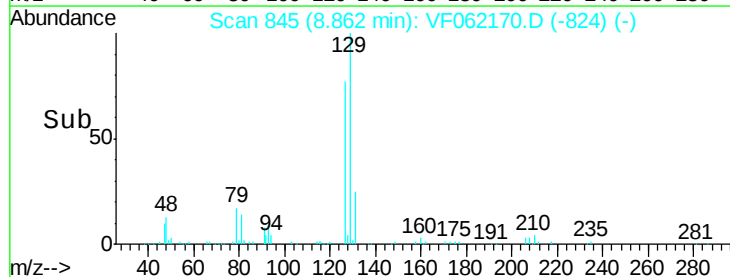
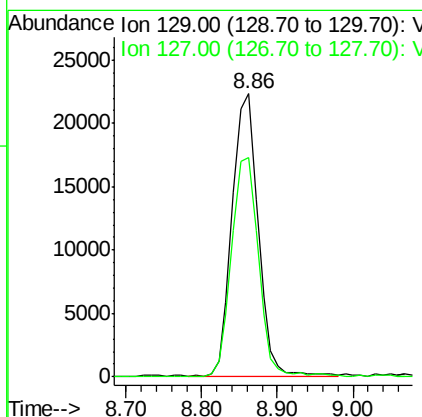
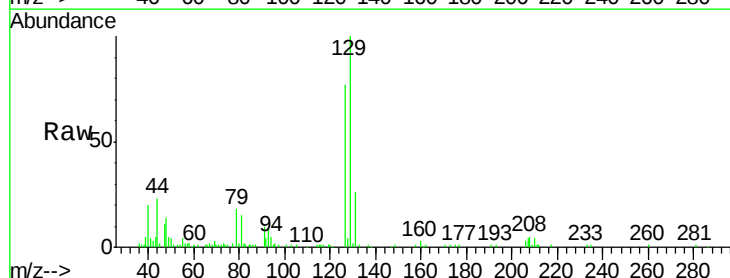
Manual Integrations
APPROVED

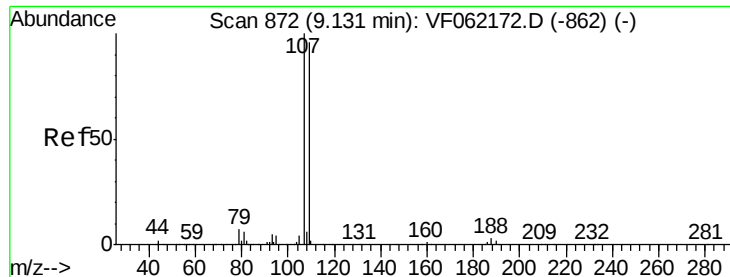
MMDadoda
4/17/2019 11:50:06 AM



#60
Dibromochloromethane
Concen: 11.852 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	37.7	113.1





#61

1,2-Dibromoethane

Concen: 10.950 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 107 Resp: 38546

Ion Ratio Lower Upper

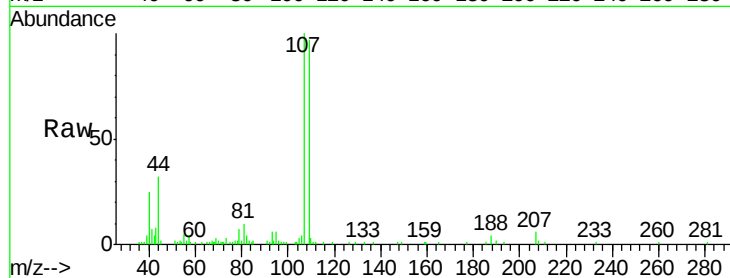
107 100

109 97.5 76.8 115.2

Manual Integrations
APPROVED

MMDadoda

4/17/2019 11:50:06 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

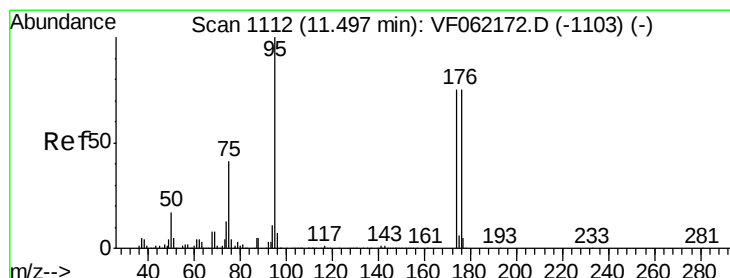
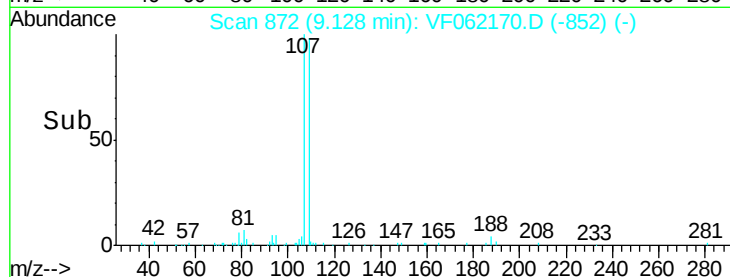
10000

5000

0

9.00 9.10 9.20

Time-->



#62

4-Bromofluorobenzene

Concen: 10.801 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

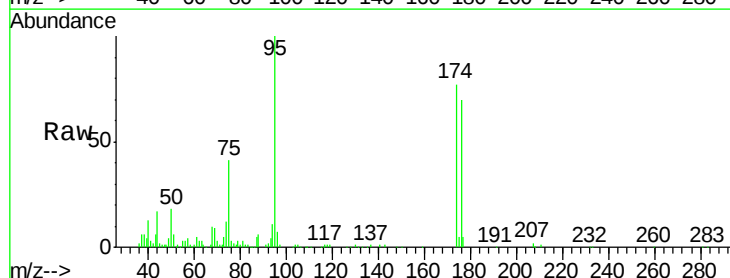
Tgt Ion: 95 Resp: 65518

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.2

176 70.1 0.0 149.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

50000

40000

30000

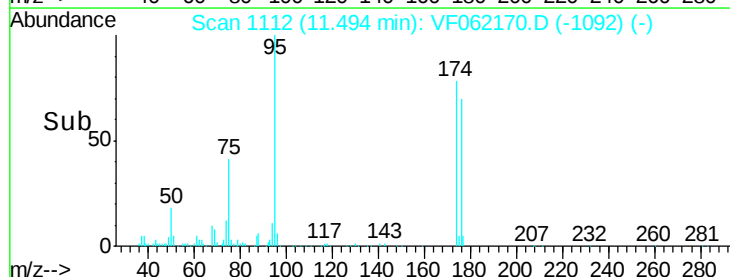
20000

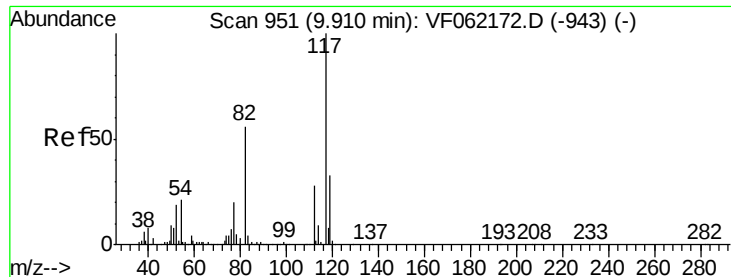
10000

0

11.40 11.50 11.60

Time-->





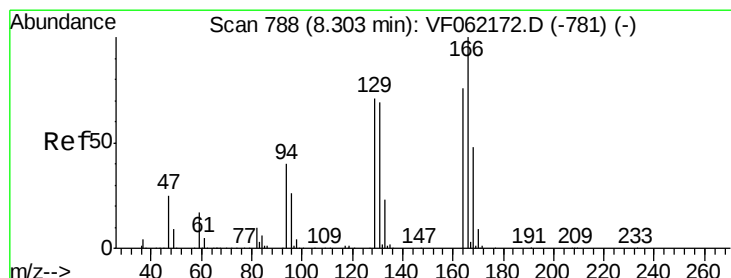
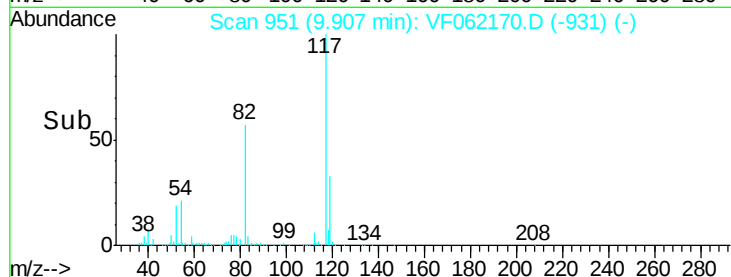
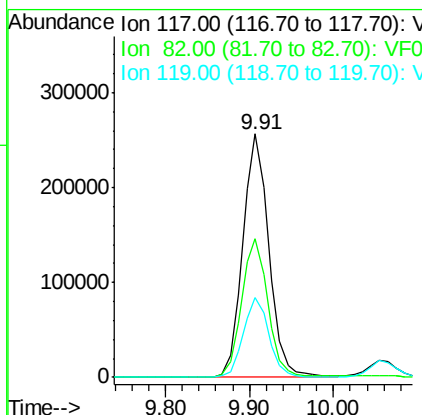
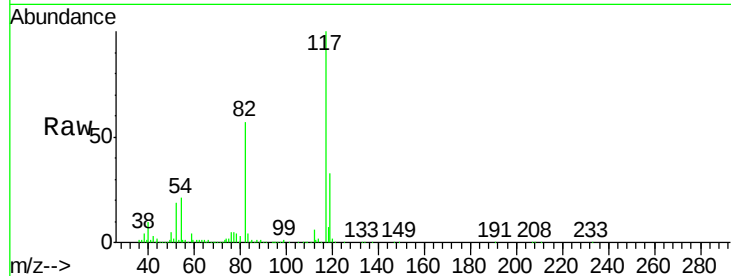
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
117	100	557077		
82	56.9		45.2	67.8
119	33.0		26.6	39.8

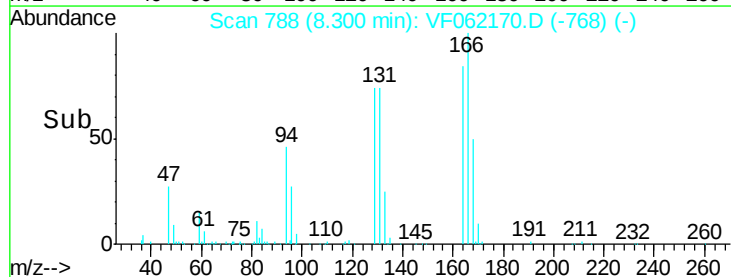
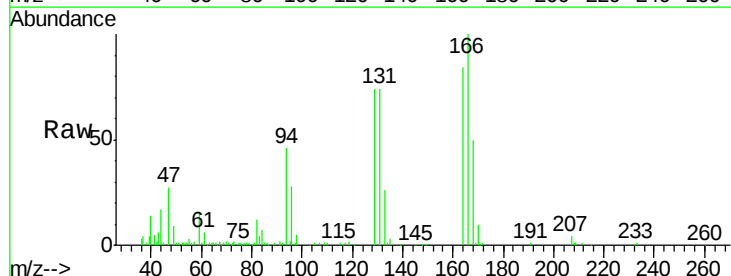
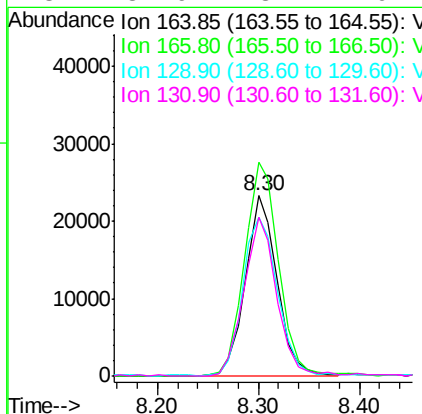
Manual Integrations
APPROVED

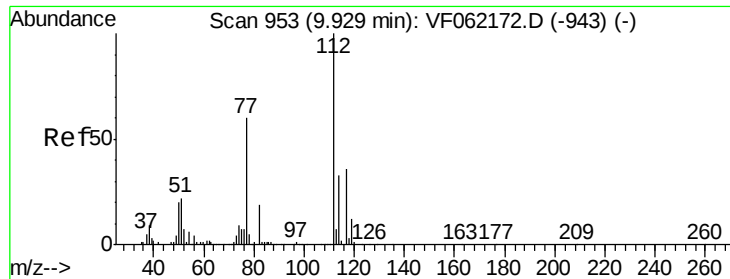
MMDadoda
4/17/2019 11:50:06 AM



#64
Tetrachloroethene
Concen: 11.262 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	51240		
166	118.7		105.9	158.9
129	88.3		75.3	112.9
131	87.9		73.4	110.2





#65

Chlorobenzene

Concen: 11.358 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:112 Resp: 131626

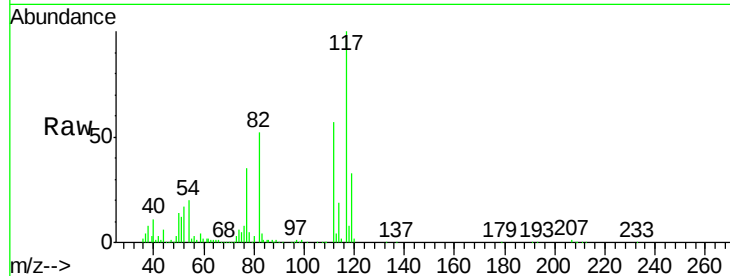
Ion Ratio Lower Upper

112 100

114 33.7 26.6 39.8

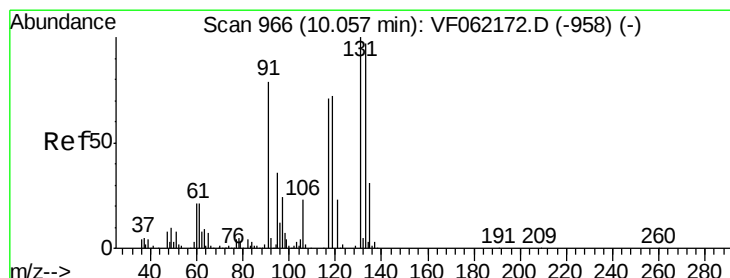
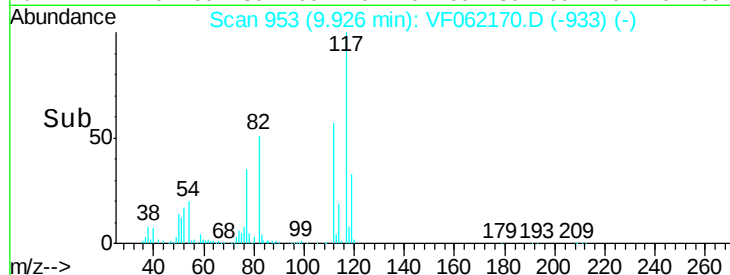
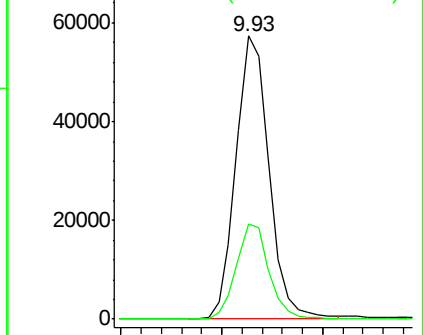
Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 11.049 ug/l

RT: 10.05 min Scan# 966

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

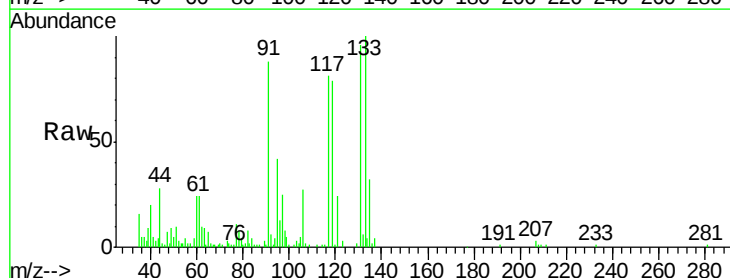
Tgt Ion:131 Resp: 52861

Ion Ratio Lower Upper

131 100

133 103.8 48.4 145.2

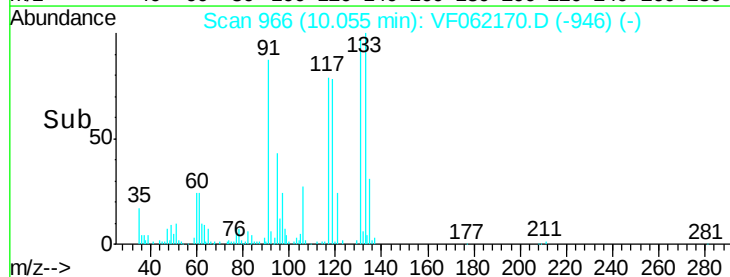
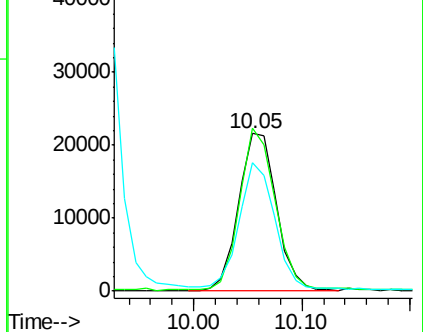
119 81.9 36.3 108.9

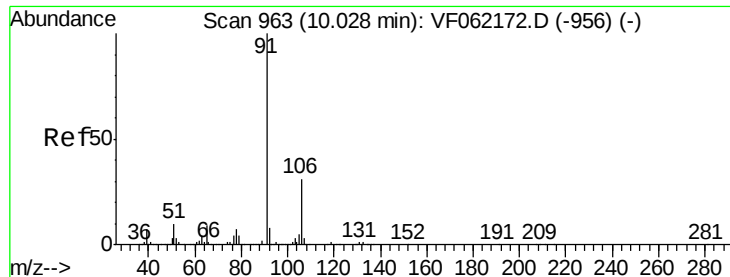


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 11.567 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 248486

Ion Ratio Lower Upper

91 100

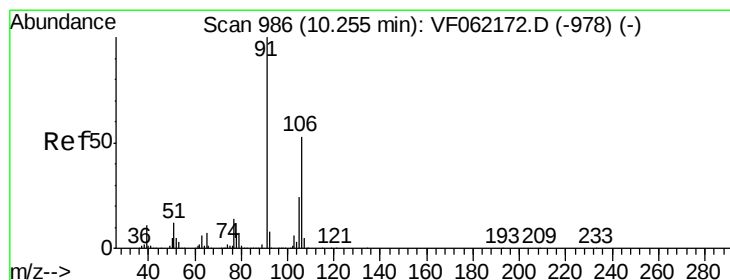
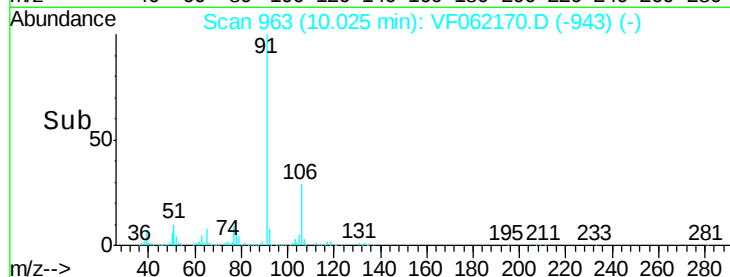
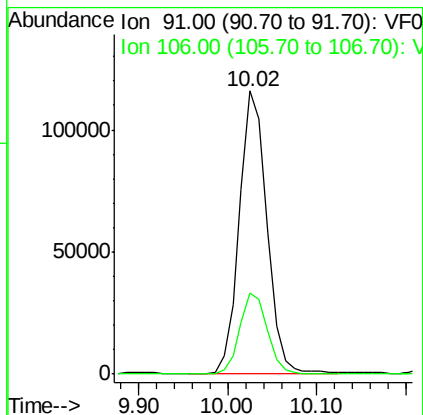
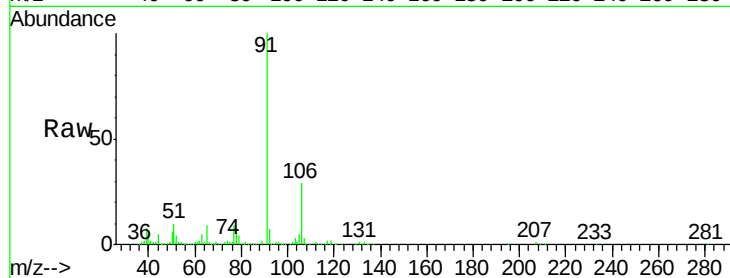
106 28.6 24.7 37.1

Manual Integrations

APPROVED

MMDadoda

4/17/2019 11:50:06 AM



#68

m/p-Xylenes

Concen: 23.503 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.00 min

Lab File: VF062170.D

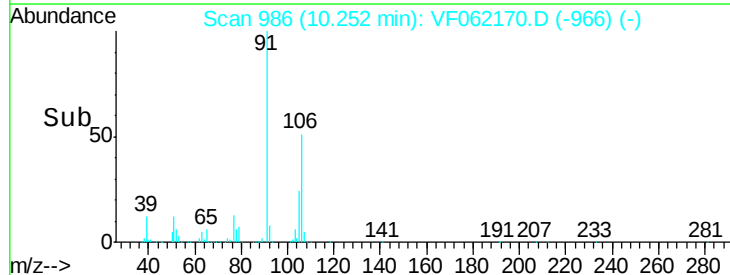
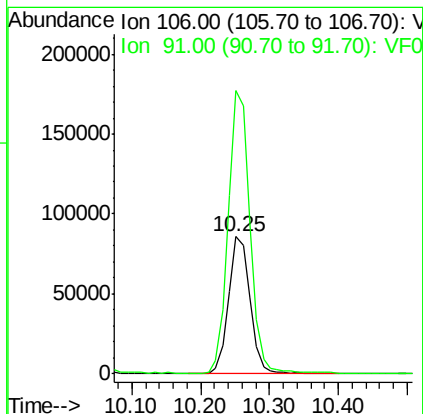
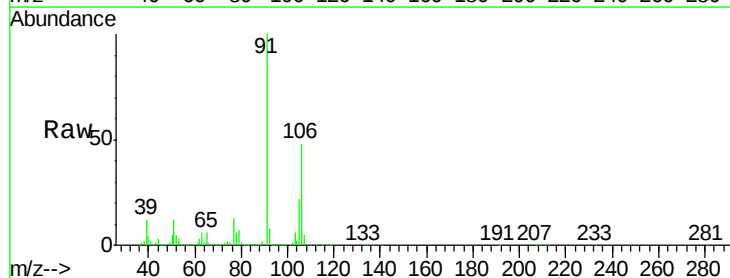
Acq: 16 Apr 2019 11:18

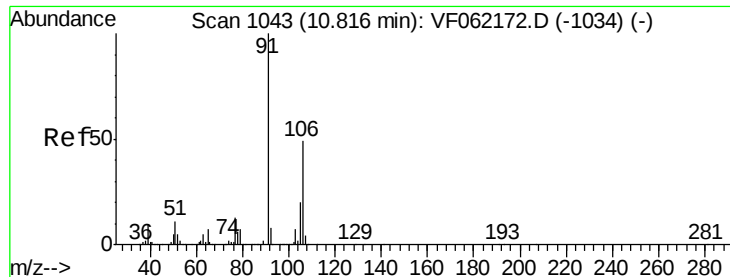
Tgt Ion: 106 Resp: 185891

Ion Ratio Lower Upper

106 100

91 206.7 151.7 227.5





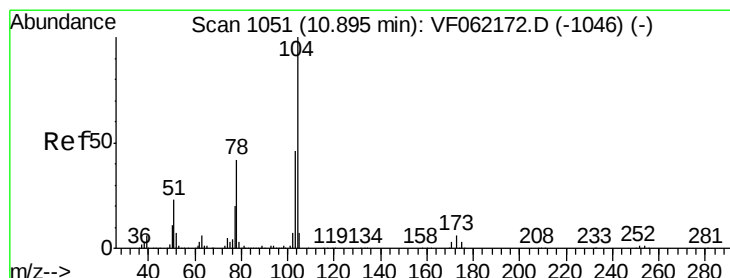
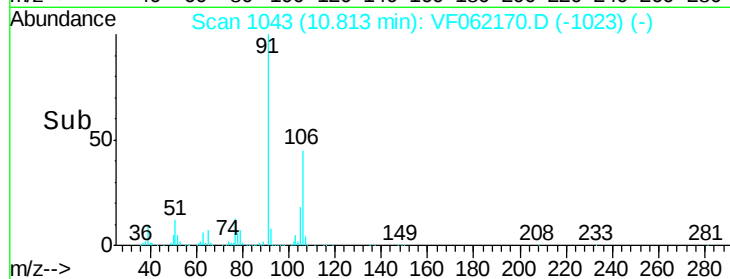
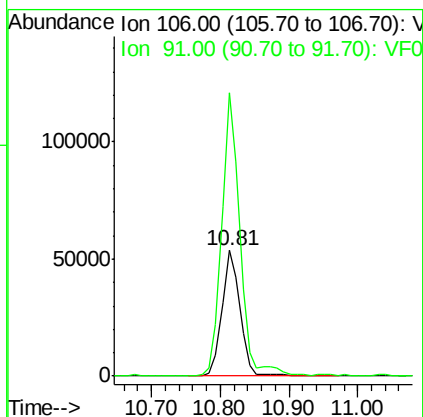
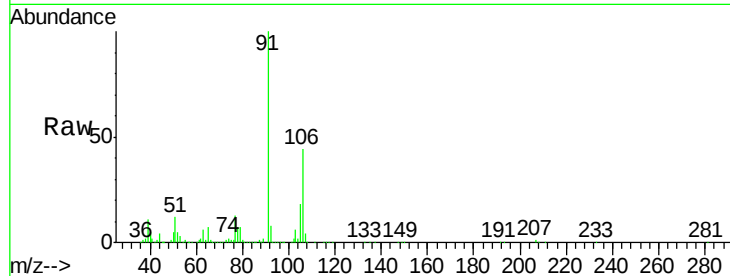
#69
o-Xylene
Concen: 11.476 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	225.1	101.9	305.7	

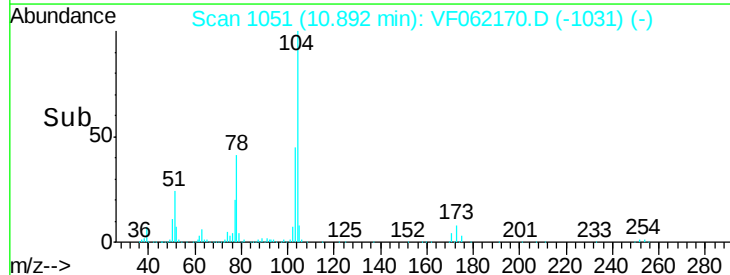
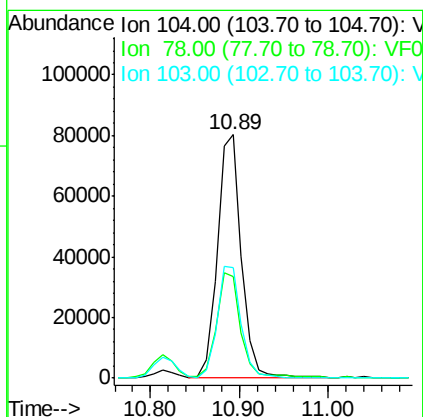
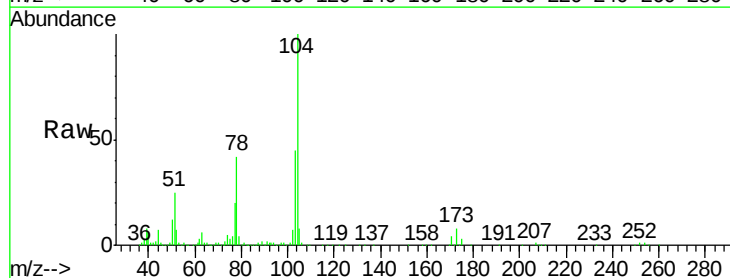
Manual Integrations
APPROVED

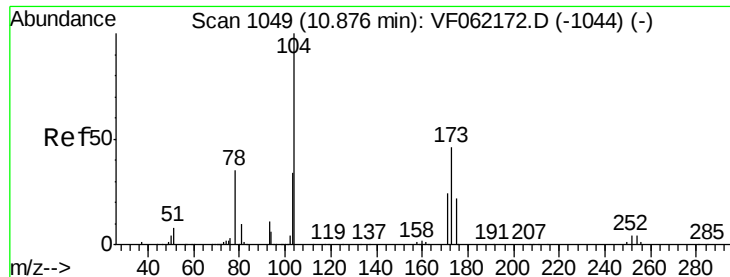
MMDadoda
4/17/2019 11:50:06 AM



#70
Styrene
Concen: 12.081 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	41.6	33.7	50.5	
103	45.2	37.2	55.8	





#71

Bromoform

Concen: 11.486 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

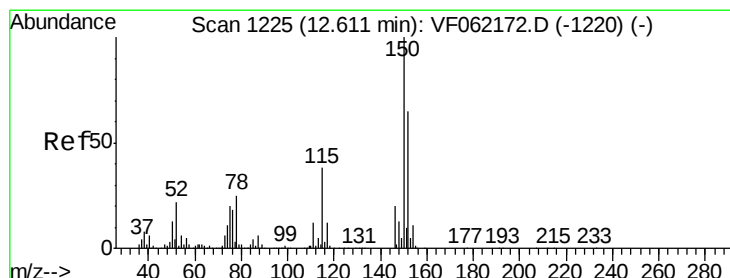
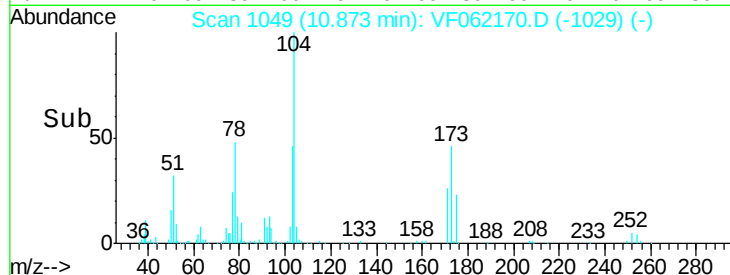
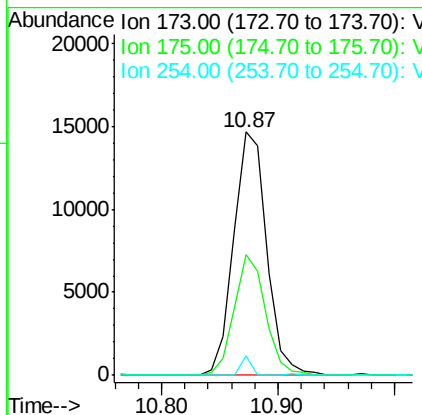
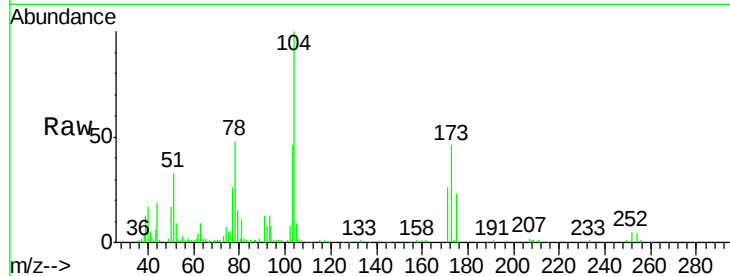
ClientSampleId :

VSTDIC010

Tot Ion:	173	Resp:	28777
Ion Ratio	Lower	Upper	
173	100		
175	48.9	24.3	72.8
254	8.0	6.6	9.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

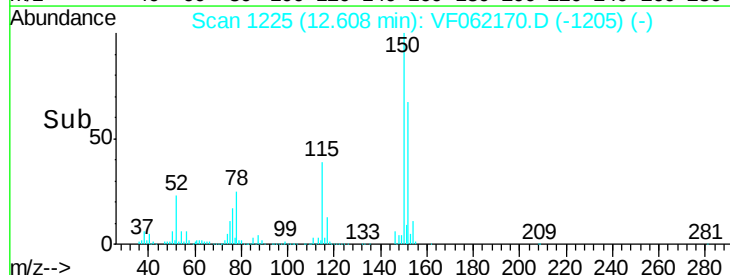
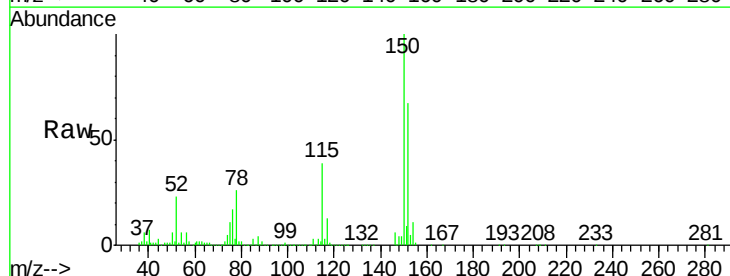
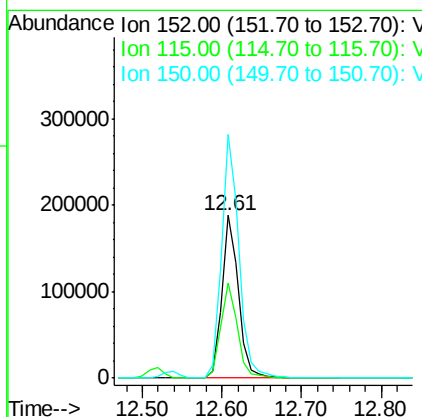
RT: 12.61 min Scan# 1225

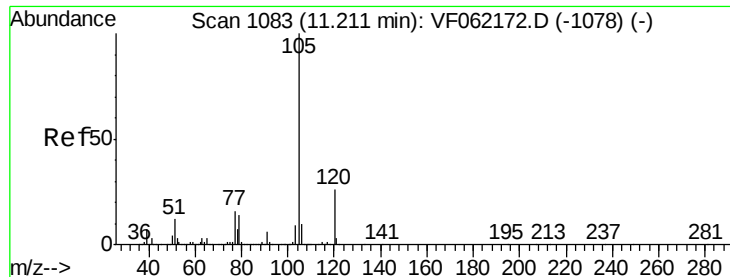
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	152	Resp:	277610
Ion Ratio	Lower	Upper	
152	100		
115	58.6	29.0	87.1
150	149.9	0.0	309.2





#73

Isopropylbenzene

Concen: 11.872 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 105 Resp: 283933

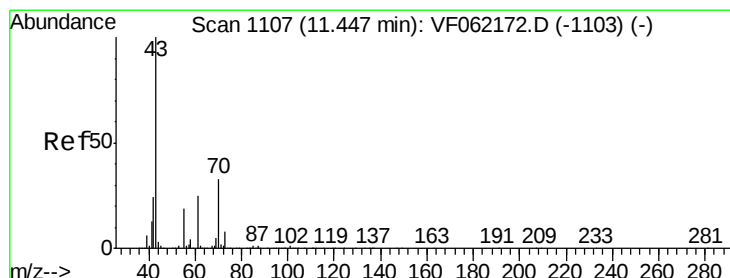
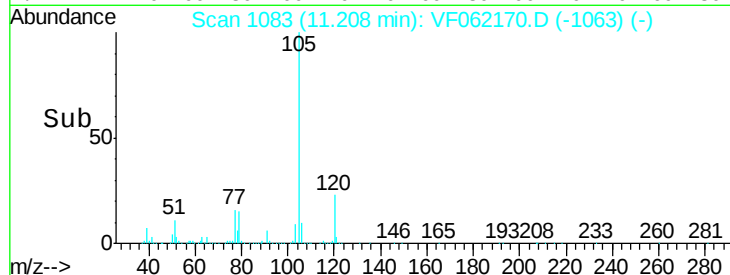
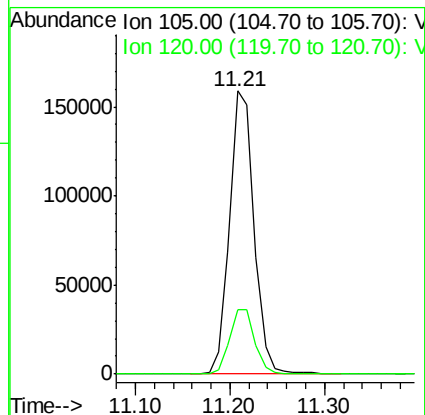
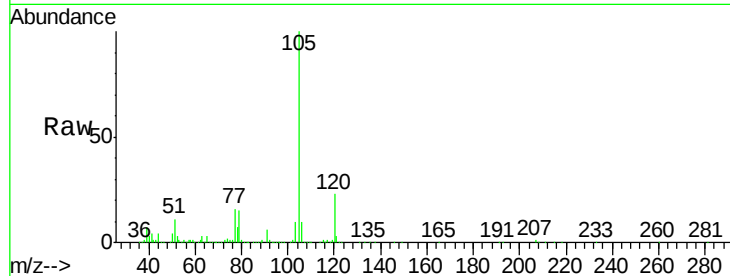
Ion Ratio Lower Upper

105 100

120 22.9 13.0 38.9

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#74

N-ethyl acetate

Concen: 12.233 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion: 43 Resp: 76256

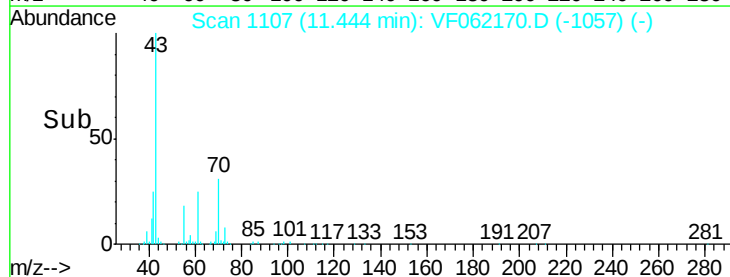
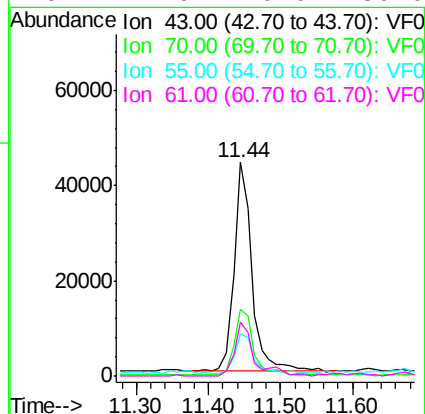
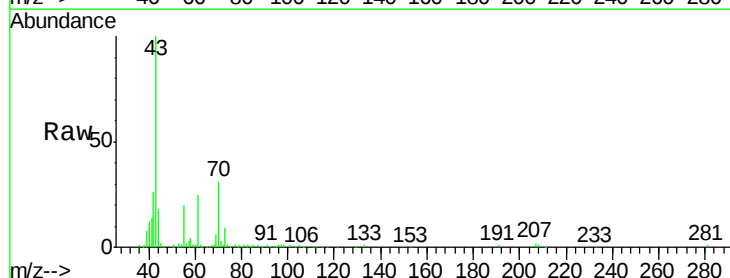
Ion Ratio Lower Upper

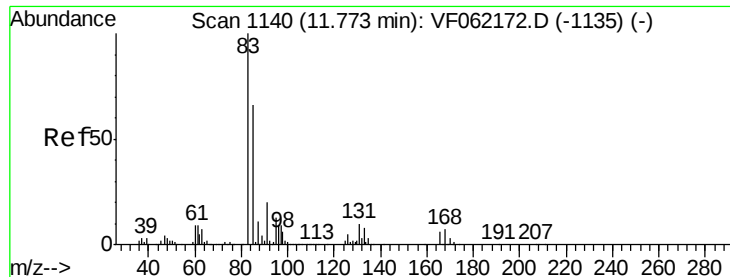
43 100

70 31.2 26.6 39.8

55 19.6 15.0 22.6

61 24.9 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 11.515 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

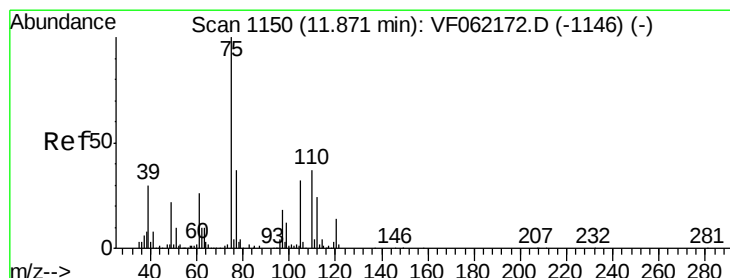
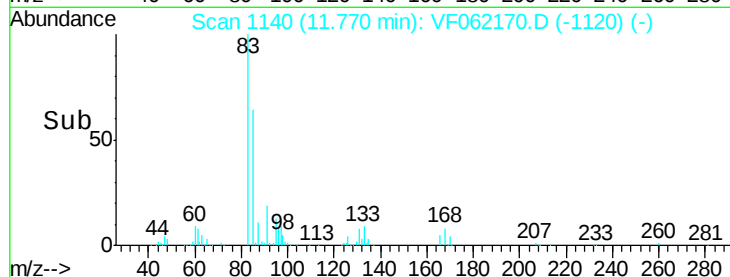
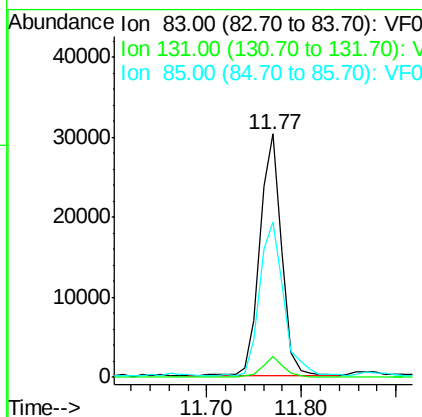
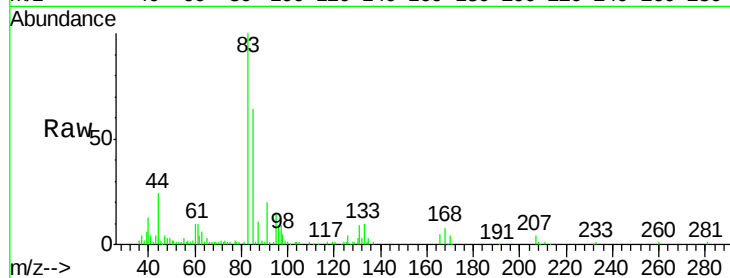
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	49059
Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.8	14.4
85	64.0	33.2	99.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#76

1,2,3-Trichloropropane

Concen: 11.776 ug/l

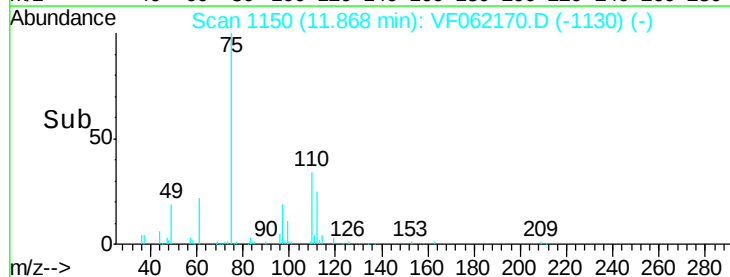
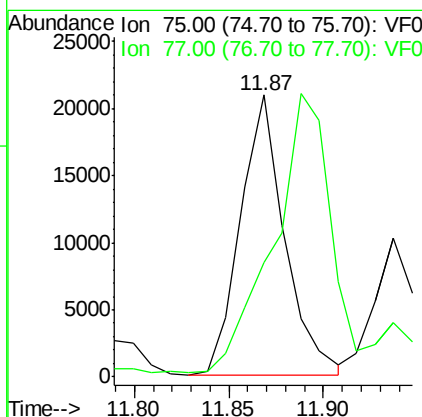
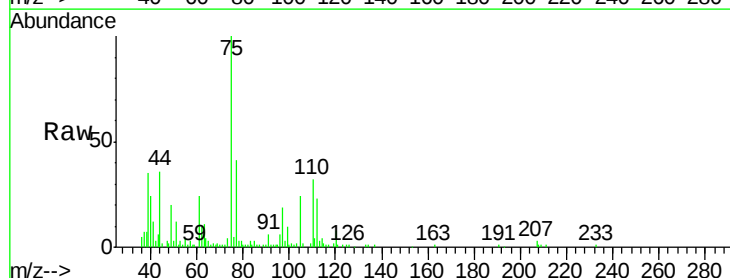
RT: 11.87 min Scan# 1150

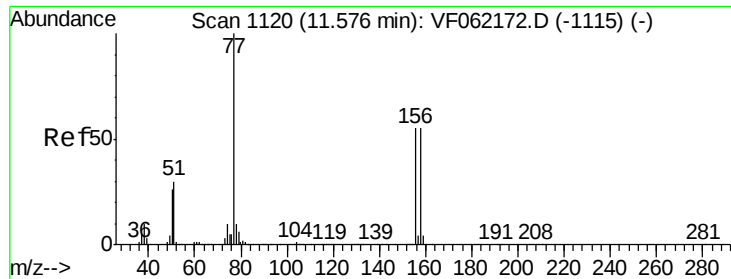
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	75	Resp:	33995
Ion	Ratio	Lower	Upper
75	100		
77	40.6	18.7	56.1





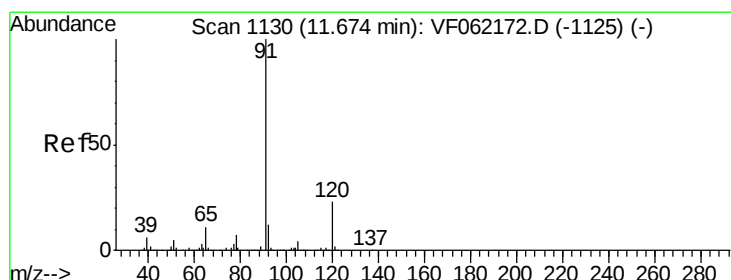
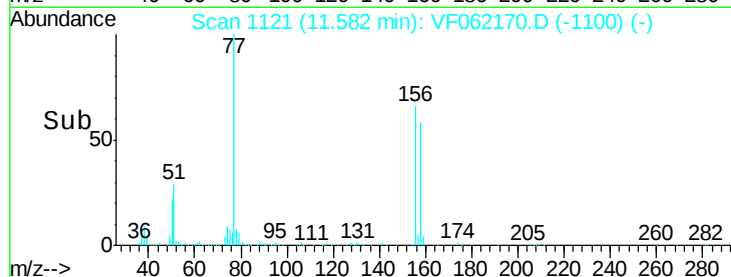
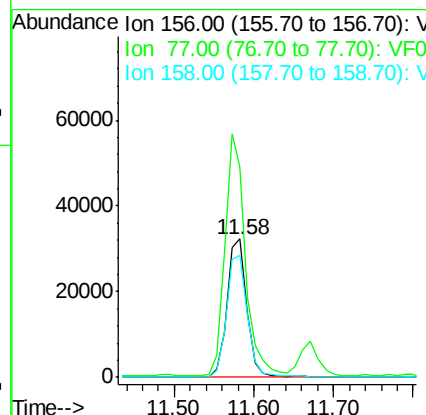
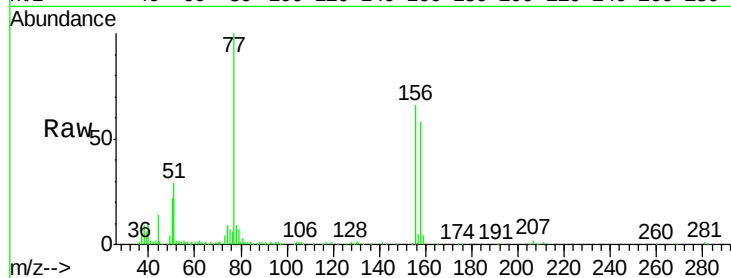
#77
Bromobenzene
Concen: 11.450 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
156	100		
77	152.3	91.1	273.4
158	88.3	50.1	150.4

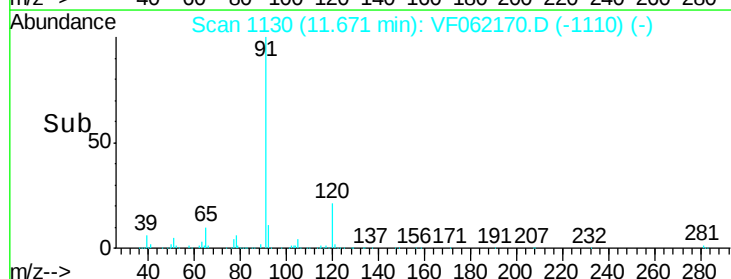
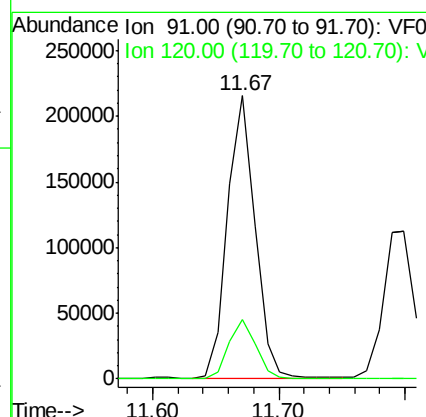
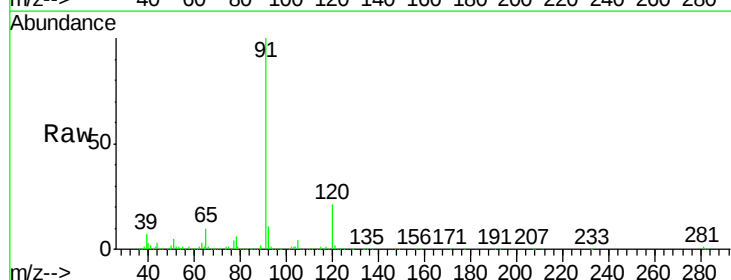
Manual Integrations
APPROVED

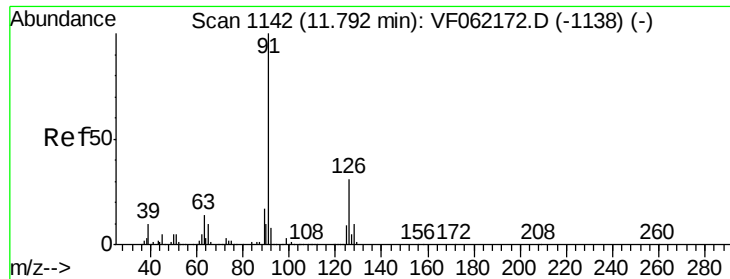
MMDadoda
4/17/2019 11:50:06 AM



#78
n-propylbenzene
Concen: 12.003 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.0	11.6	34.7





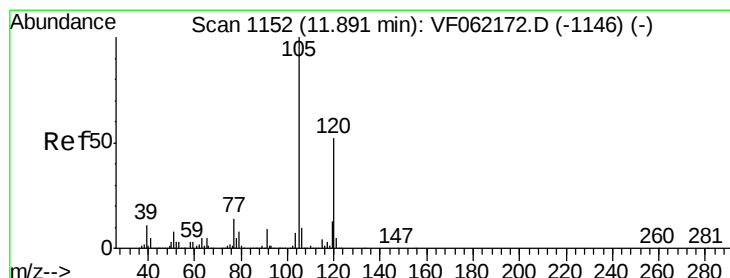
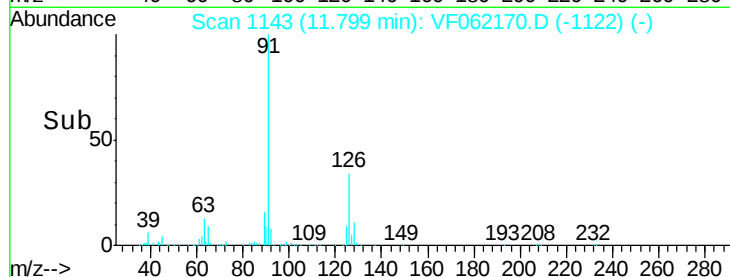
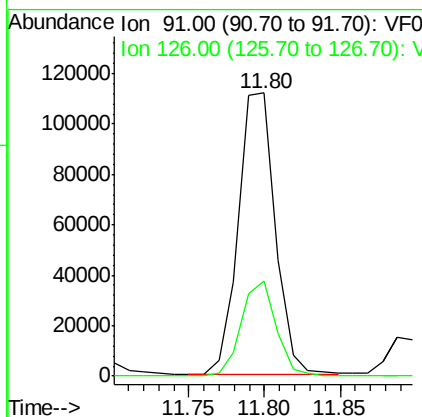
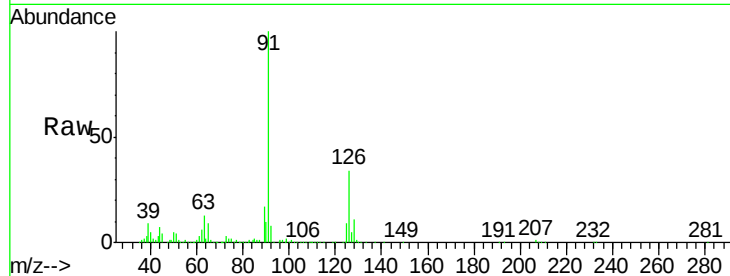
#79
 2-Chlorotoluene
 Concen: 11.739 ug/l
 RT: 11.80 min Scan# 1143
 Delta R.T. 0.01 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion: 91 Resp: 188111
 Ion Ratio Lower Upper
 91 100
 126 33.8 15.6 46.8

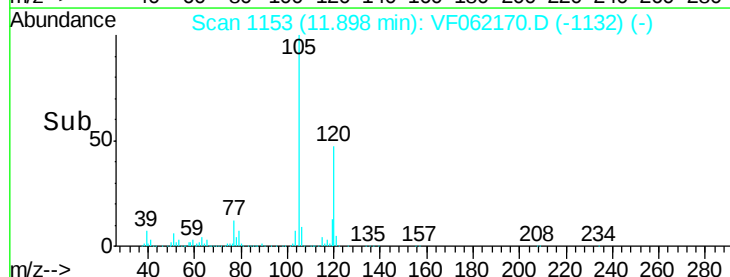
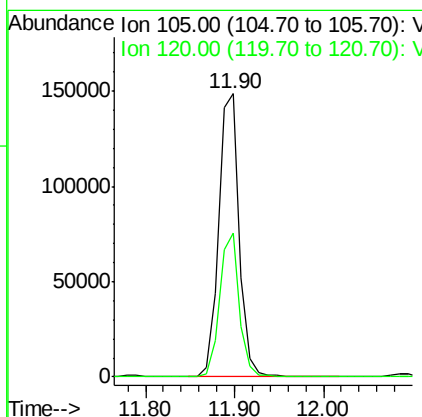
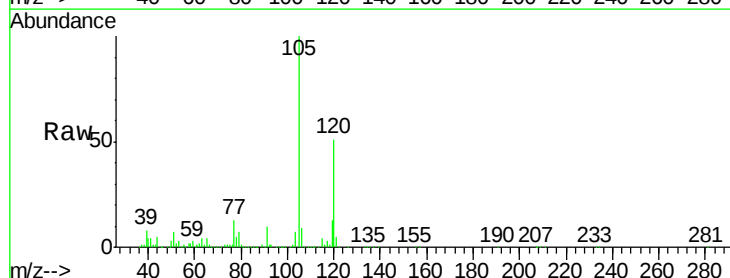
Manual Integrations
 APPROVED

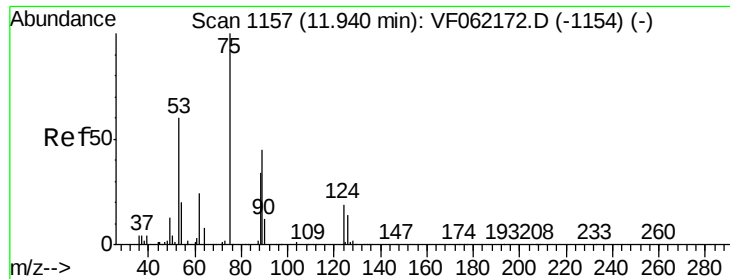
MMDadoda
 4/17/2019 11:50:06 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 12.011 ug/l
 RT: 11.90 min Scan# 1153
 Delta R.T. 0.01 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Tgt Ion: 105 Resp: 239584
 Ion Ratio Lower Upper
 105 100
 120 50.6 25.9 77.7





#81

trans-1,4-Dichloro-2-butene

Concen: 10.320 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

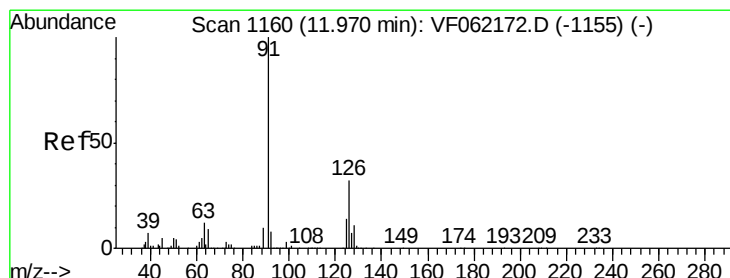
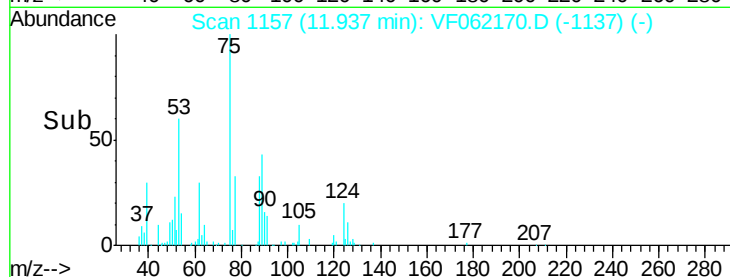
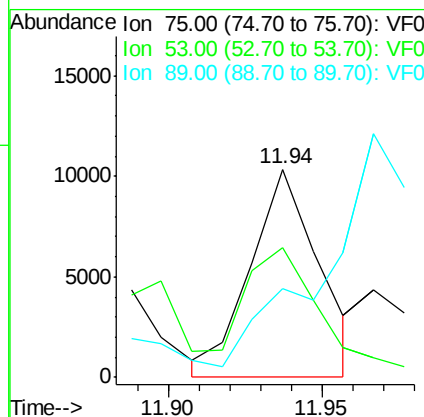
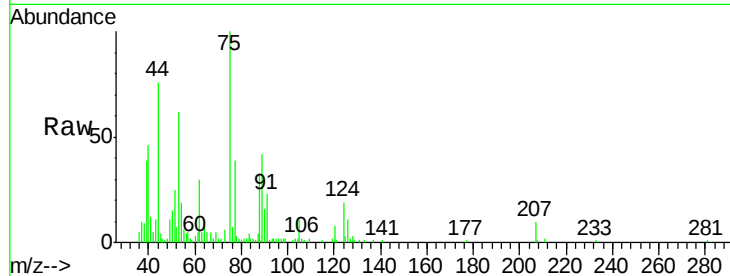
ClientSampleId :

VSTDIC010

Tot Ion:	75	Resp:	16031
Ion Ratio	Lower	Upper	
75	100		
53	62.0	53.4	80.0
89	42.4	38.7	58.1

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#82

4-Chlorotoluene

Concen: 11.954 ug/l

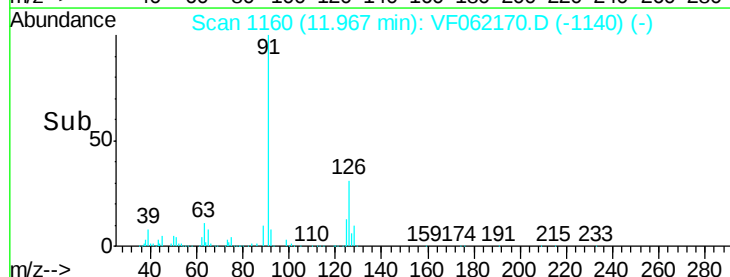
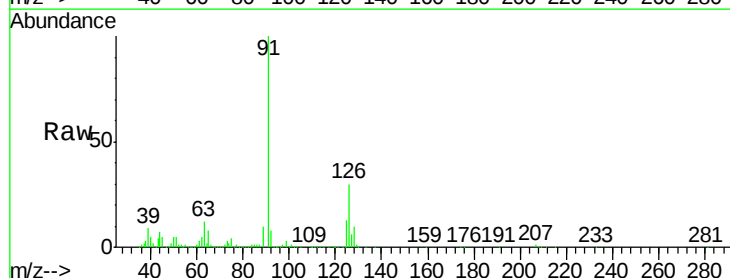
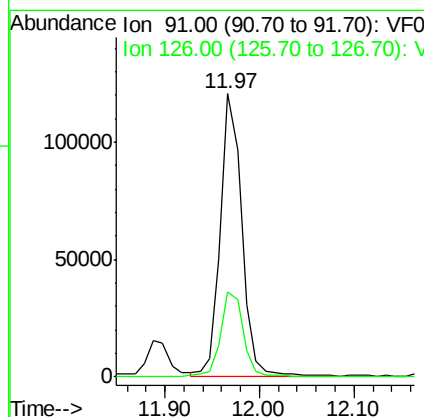
RT: 11.97 min Scan# 1160

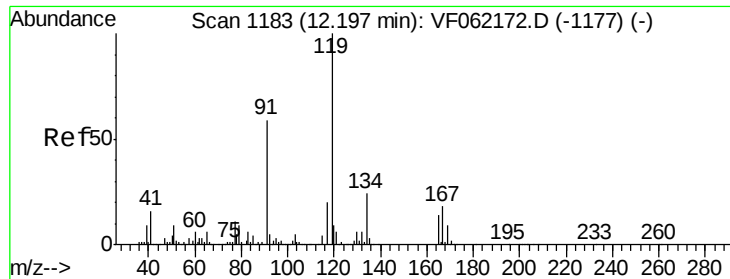
Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	91	Resp:	187711
Ion Ratio	Lower	Upper	
91	100		
126	30.2	15.9	47.7





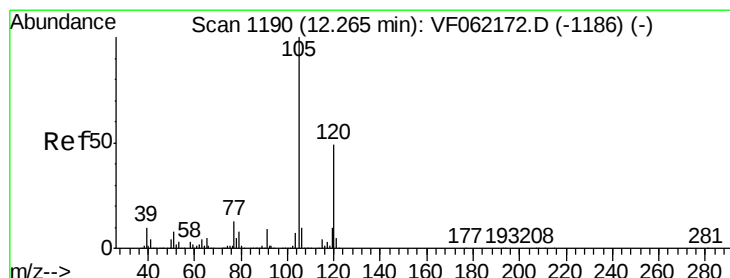
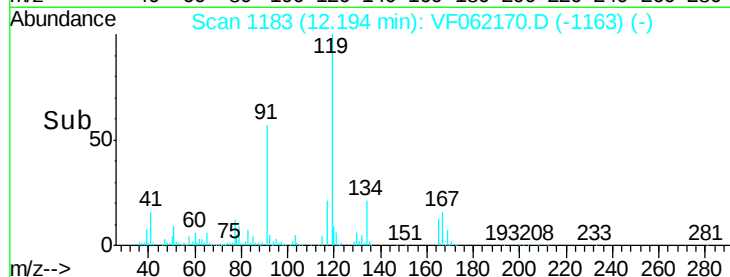
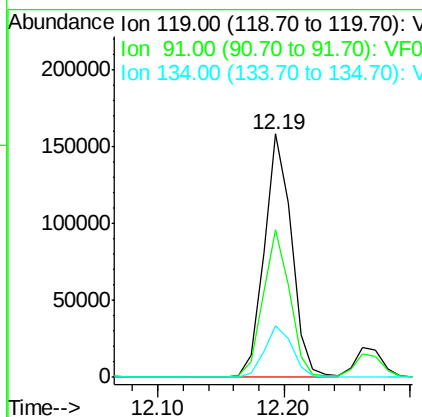
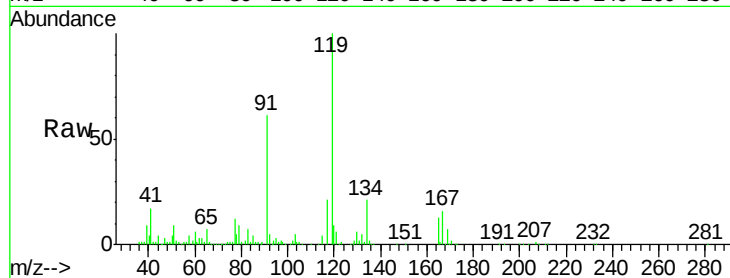
#83
tert-Butylbenzene
Concen: 12.084 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.8	29.5	88.5
134	21.5	12.0	36.1

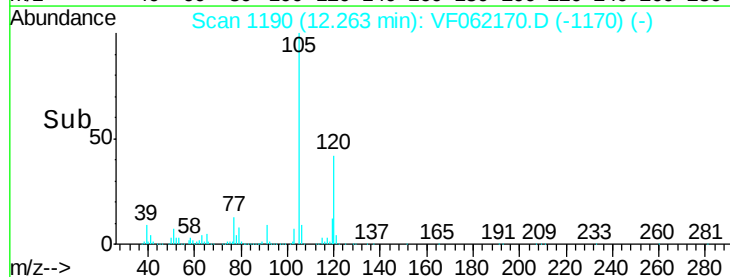
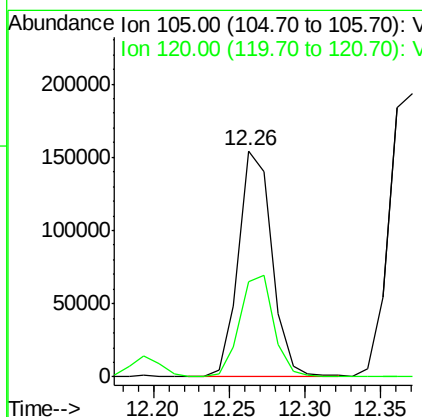
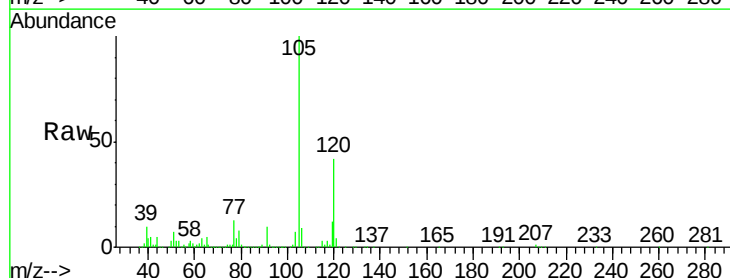
Manual Integrations
APPROVED

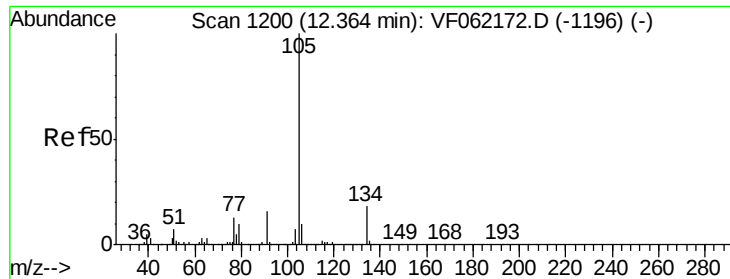
MMDadoda
4/17/2019 11:50:06 AM



#84
1,2,4-Trimethylbenzene
Concen: 12.231 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.2	24.7	74.1





#85

sec-Butylbenzene

Concen: 11.891 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 309687

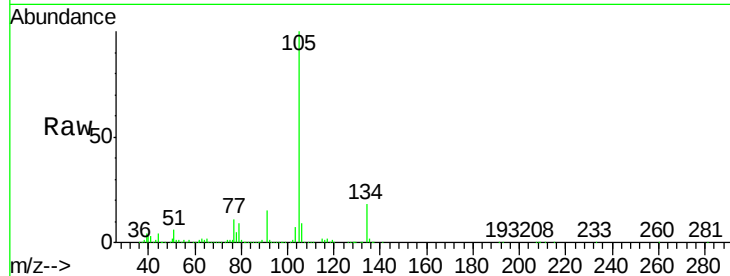
Ion Ratio Lower Upper

105 100

134 18.5 9.0 27.0

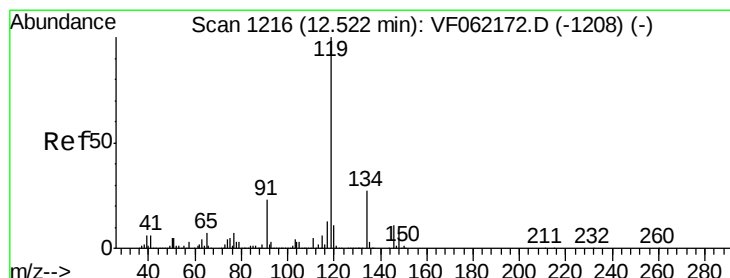
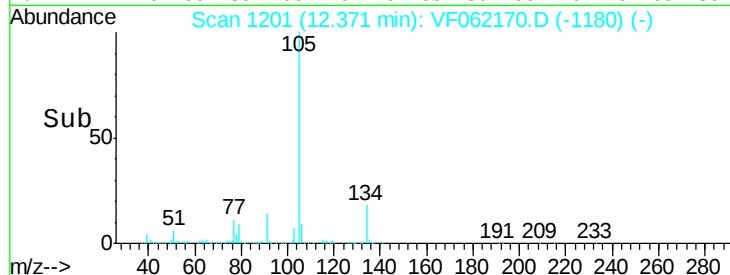
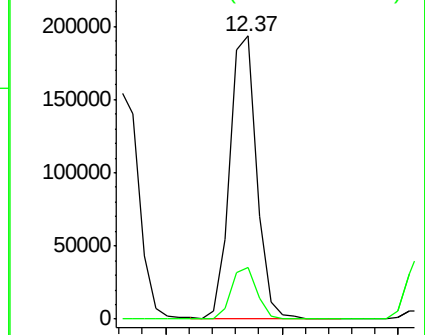
Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 12.188 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

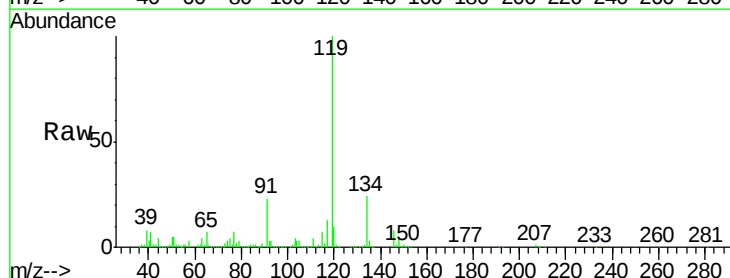
Tgt Ion:119 Resp: 270431

Ion Ratio Lower Upper

119 100

134 24.1 13.5 40.5

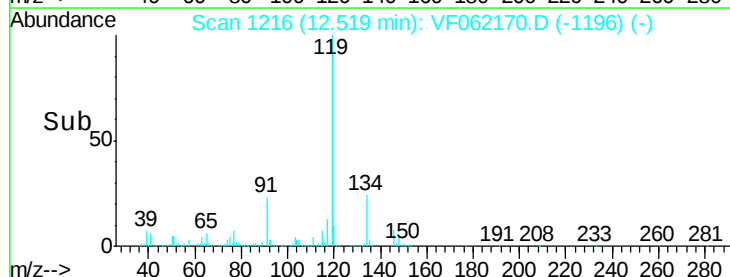
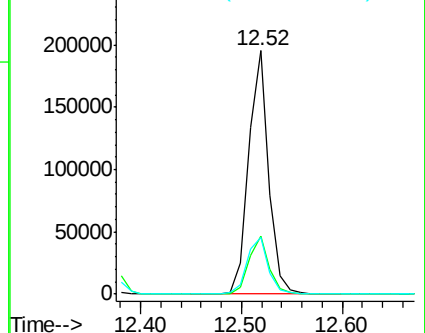
91 23.2 11.5 34.5

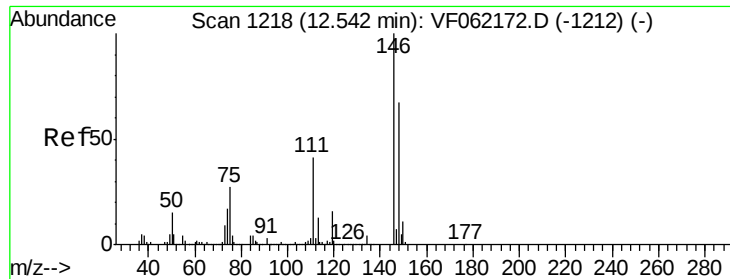


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





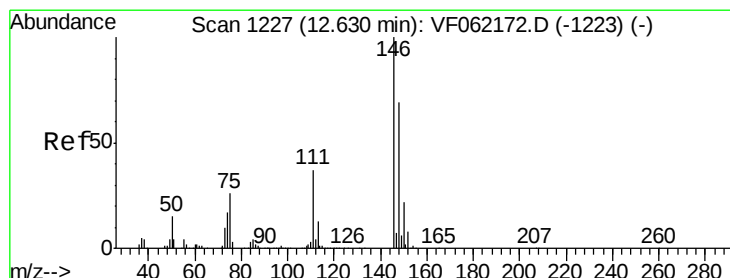
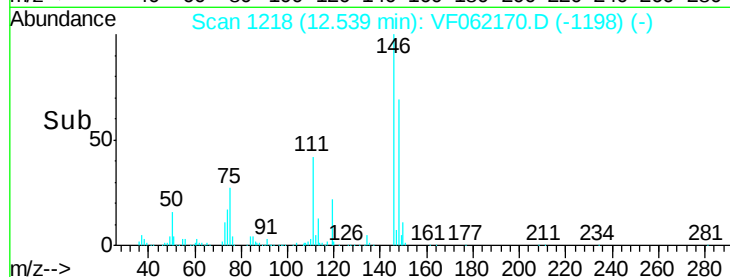
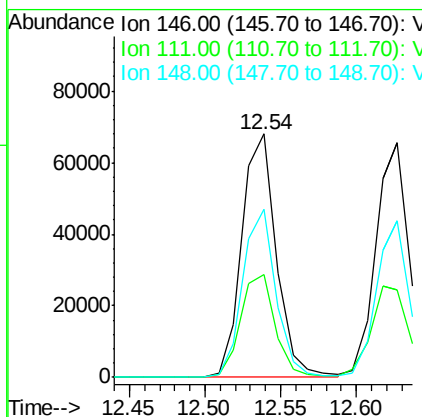
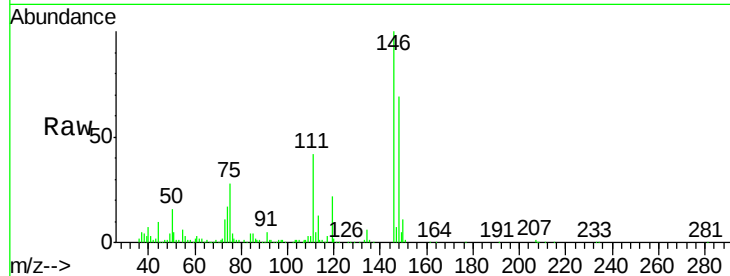
#87
 1,3-Dichlorobenzene
 Concen: 11.853 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.5	61.6
148	69.0	33.6	100.8

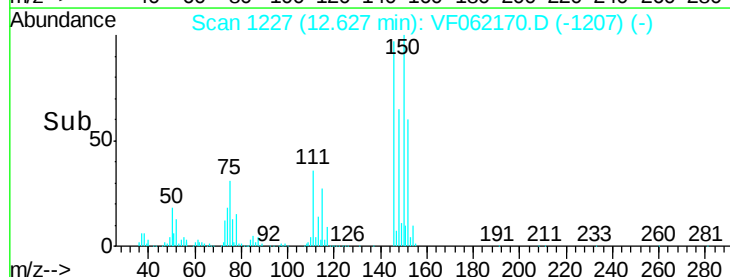
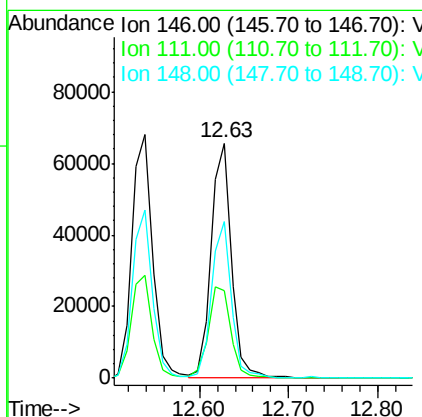
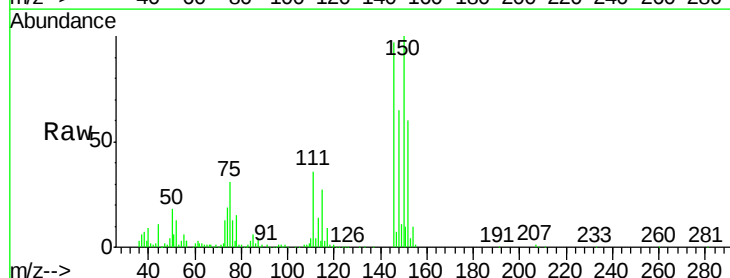
Manual Integrations
 APPROVED

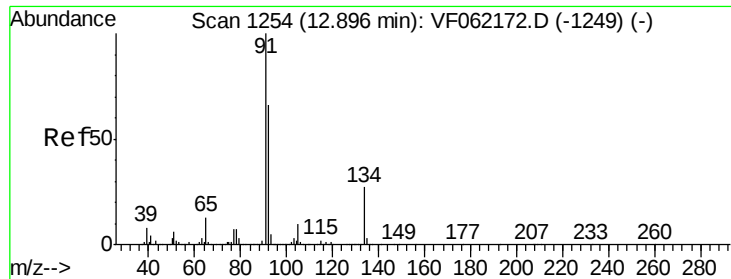
MMDadoda
 4/17/2019 11:50:06 AM



#88
 1,4-Dichlorobenzene
 Concen: 11.667 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.6	55.6
148	66.6	34.3	102.8





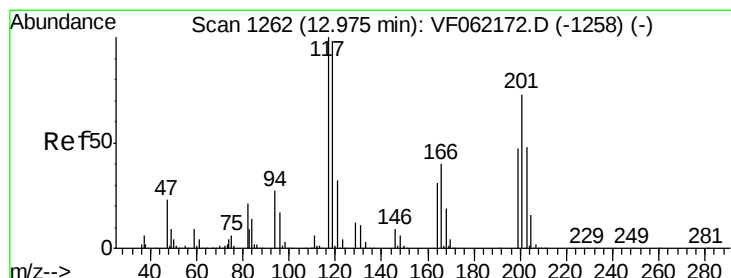
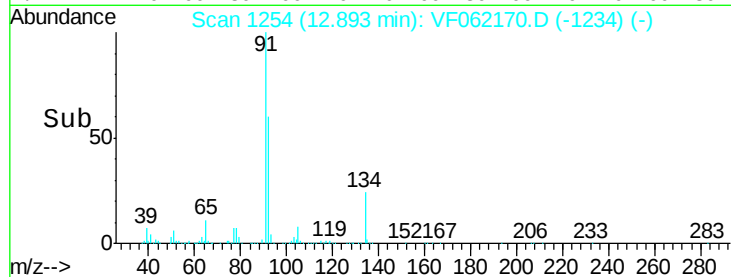
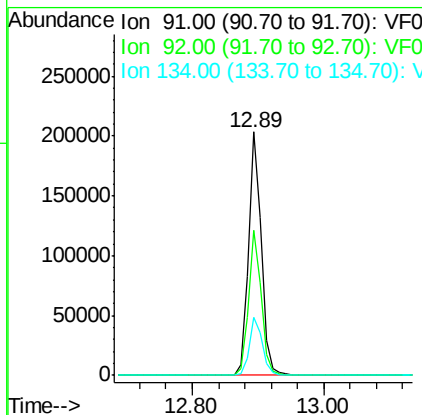
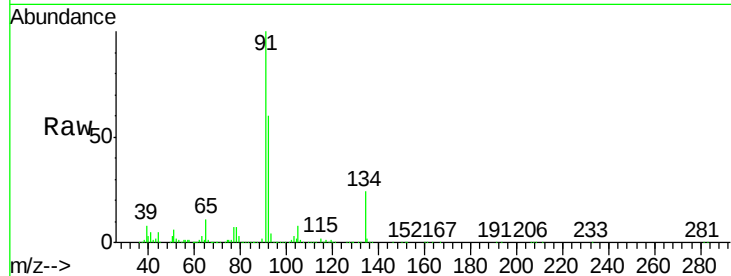
#89
n-Butylbenzene
Concen: 12.448 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.7	32.9	98.6
134	23.7	13.4	40.2

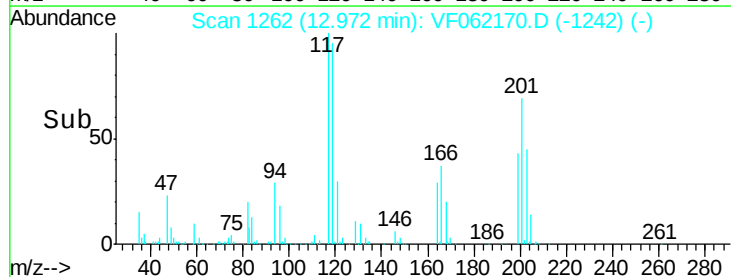
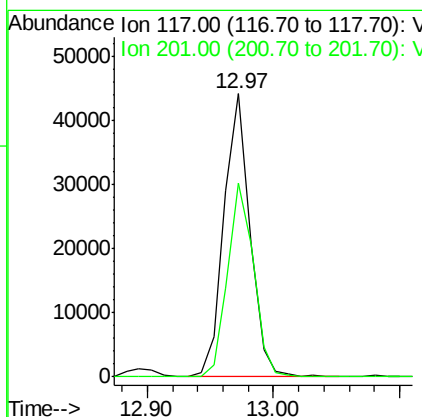
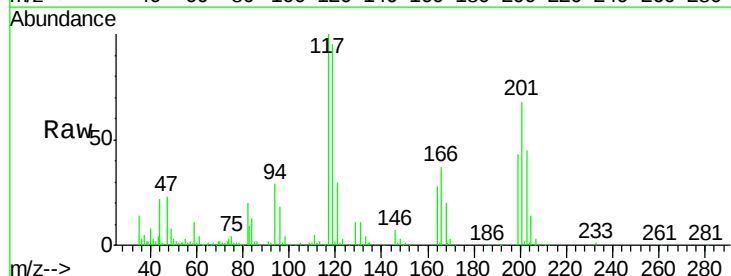
Manual Integrations
APPROVED

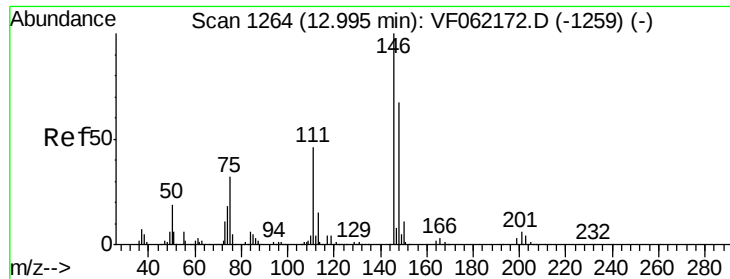
MMDadoda
4/17/2019 11:50:06 AM



#90
Hexachloroethane
Concen: 11.559 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF062170.D
Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.4	36.7	110.1





#91

1,2-Dichlorobenzene

Concen: 12.112 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

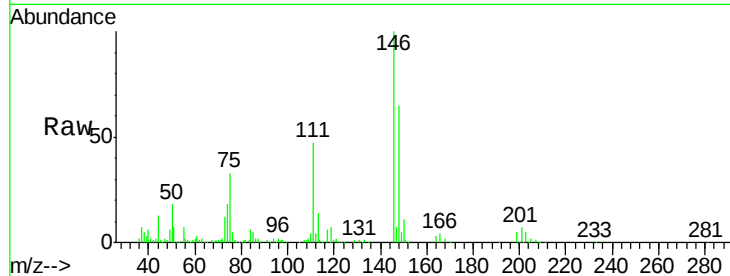
ClientSampleId :

VSTDIC010

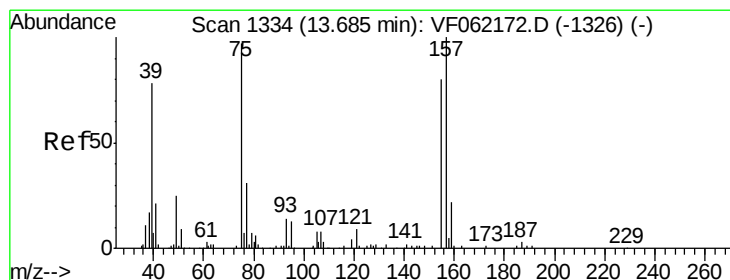
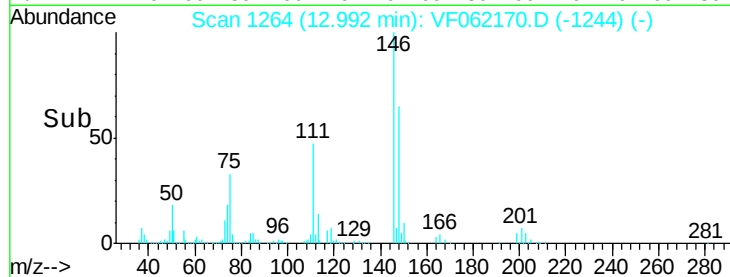
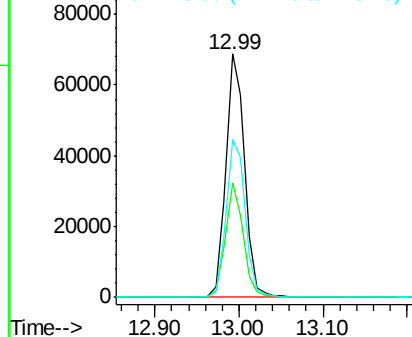
Tot Ion:	146	Resp:	105773
Ion	Ratio	Lower	Upper
146	100		
111	47.1	22.9	68.8
148	64.6	33.6	100.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 11.587 ug/l

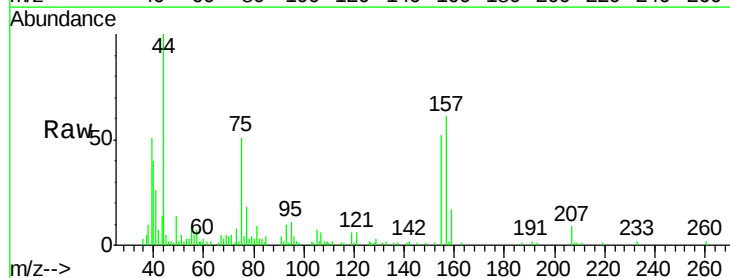
RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

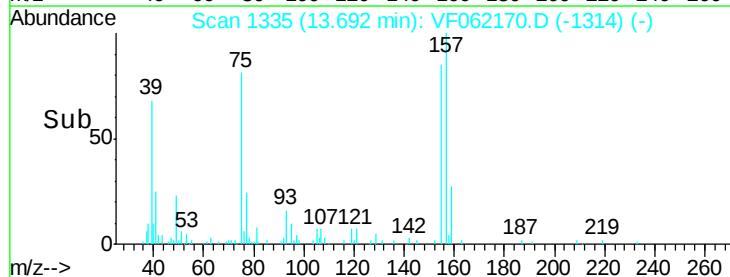
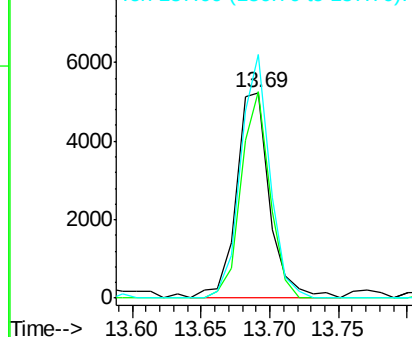
Lab File: VF062170.D

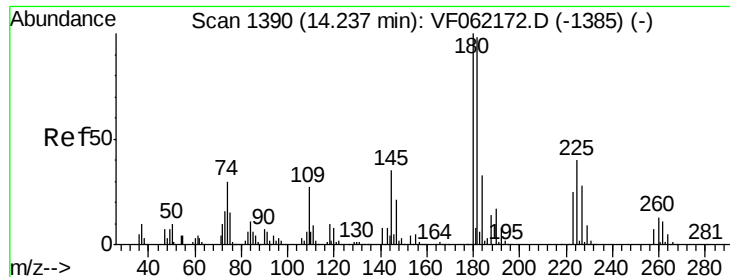
Acq: 16 Apr 2019 11:18

Tgt Ion:	75	Resp:	8891
Ion	Ratio	Lower	Upper
75	100		
155	100.4	41.0	123.0
157	118.4	51.3	154.0



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





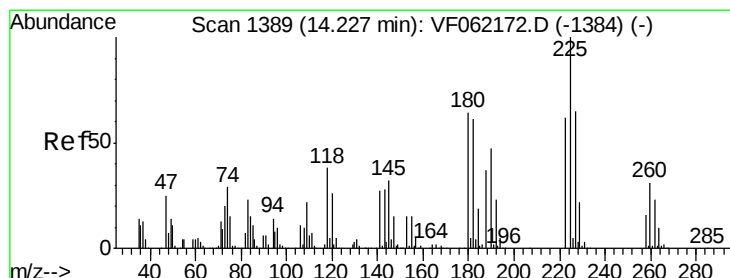
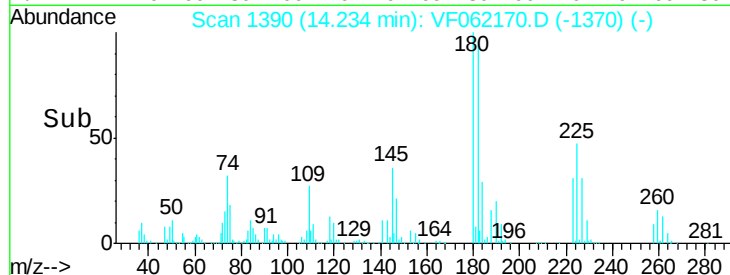
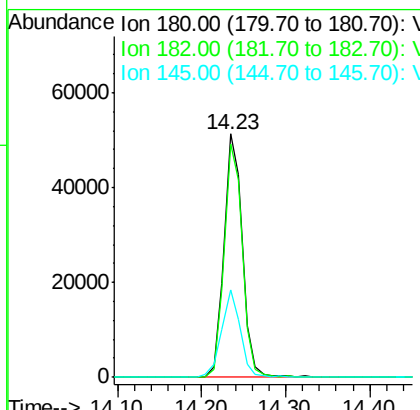
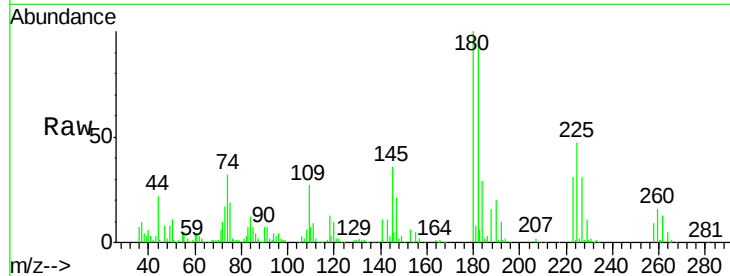
#93
 1,2,4-Trichlorobenzene
 Concen: 11.886 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
180	100	77961		
182	96.1	48.8	146.4	
145	36.0	17.3	52.0	

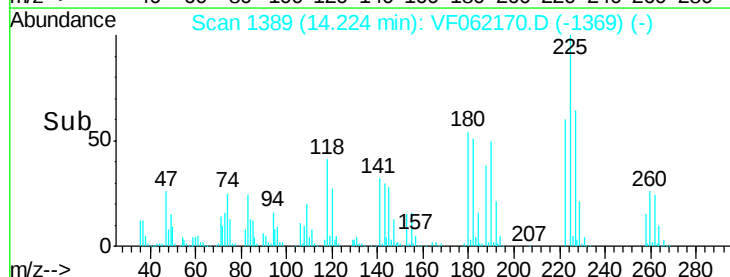
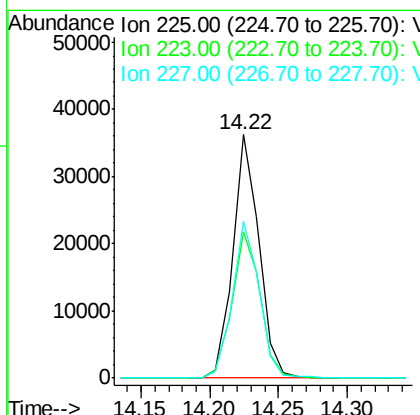
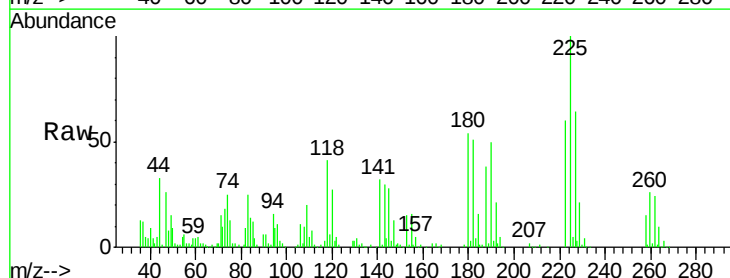
Manual Integrations
 APPROVED

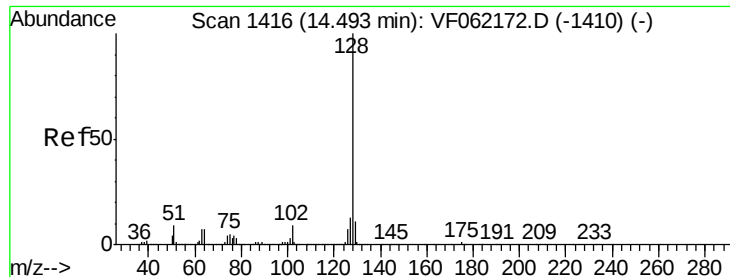
MMDadoda
 4/17/2019 11:50:06 AM



#94
 Hexachlorobutadiene
 Concen: 11.201 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062170.D
 Acq: 16 Apr 2019 11:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	47880		
223	60.0	30.9	92.7	
227	64.3	32.3	96.9	





#95

Naphthalene

Concen: 11.157 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Instrument :

MSVOA_F

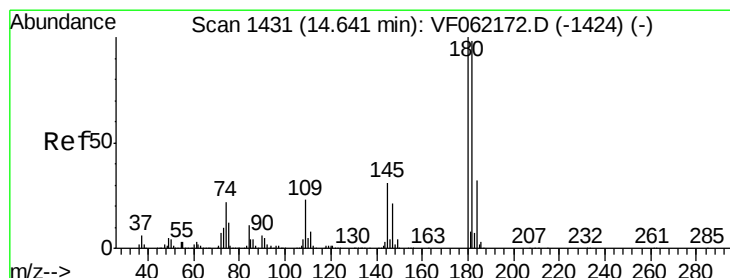
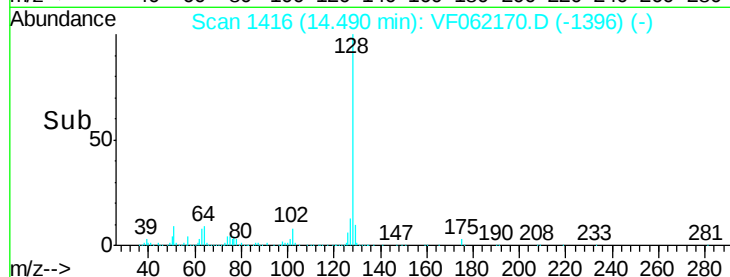
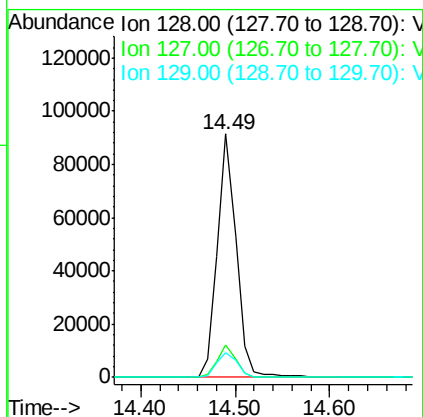
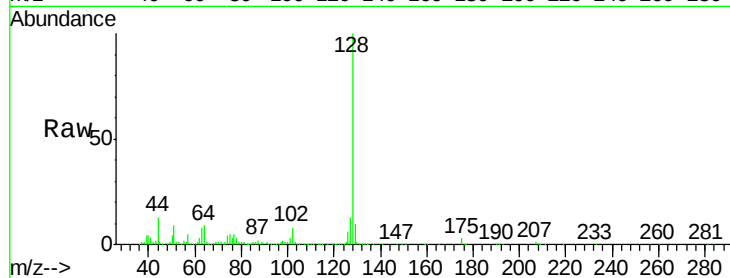
ClientSampleId :

VSTDIC010

Tot Ion:	128	Resp:	127852
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.3	15.5
129	10.1	9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:06 AM



#96

1,2,3-Trichlorobenzene

Concen: 11.391 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062170.D

Acq: 16 Apr 2019 11:18

Tgt Ion:	180	Resp:	69605
Ion Ratio	Lower	Upper	
180	100		
182	97.2	49.0	147.2
145	31.0	15.4	46.2

