

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062417.D
 Acq On : 10 May 2019 12:19
 Operator : FY/SY
 Sample : VF0510SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 3:54:10 PM

Quant Time: May 10 15:00:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	353294	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	433174	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	387247	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	246858	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	176864	52.97	ug/l	0.02
Spiked Amount 50.000			Recovery	=	105.94%	
35) Dibromofluoromethane	4.31	113	202247	58.60	ug/l	0.01
Spiked Amount 50.000			Recovery	=	117.20%	
50) Toluene-d8	7.72	98	467974	56.02	ug/l	0.01
Spiked Amount 50.000			Recovery	=	112.04%	
62) 4-Bromofluorobenzene	11.50	95	215397	57.15	ug/l	0.01
Spiked Amount 50.000			Recovery	=	114.30%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	87927	21.504	ug/l	84
3) Chloromethane	1.14	50	48777	18.088	ug/l	97
4) Vinyl Chloride	1.19	62	51222	19.043	ug/l	98
5) Bromomethane	1.39	94	41128	18.692	ug/l	98
6) Chloroethane	1.44	64	25822	19.095	ug/l	91
7) Trichlorofluoromethane	1.56	101	116507	20.876	ug/l	99
8) Diethyl Ether	1.71	74	16931	20.050	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	62738	19.691	ug/l	94
10) Methyl Iodide	1.98	142	111980	21.327	ug/l	99
11) Tert butyl alcohol	2.70	59	15156	80.319	ug/l #	89
12) 1,1-Dichloroethene	1.87	96	52041	19.213	ug/l	92
13) Acrolein	2.10	56	12562	94.574	ug/l	93
14) Allyl chloride	2.21	41	78526	32.819	ug/l	99
15) Acrylonitrile	3.09	53	31968	89.435	ug/l	93
16) Acetone	2.35	43	70048	103.712	ug/l	100
17) Carbon Disulfide	1.92	76	107951	18.278	ug/l	100
18) Methyl Acetate	2.46	43	26555	19.659	ug/l #	90
19) Methyl tert-butyl Ether	2.55	73	113050	20.219	ug/l	94
20) Methylene Chloride	2.33	84	54658	22.368	ug/l	98
21) trans-1,2-Dichloroethene	2.43	96	49938	19.351	ug/l	93
22) Diisopropyl ether	2.94	45	144010	19.257	ug/l	96
23) Vinyl Acetate	3.35	43	328539	98.572	ug/l	97
24) 1,1-Dichloroethane	3.02	63	96203	21.285	ug/l	98
25) 2-Butanone	4.53	43	82730	97.497	ug/l	97
26) 2,2-Dichloropropane	3.79	77	63224	25.049	ug/l	95
27) cis-1,2-Dichloroethene	3.65	96	61664	19.115	ug/l	94
28) Bromochloromethane	3.91	49	36974	18.038	ug/l #	96
29) Tetrahydrofuran	4.28	42	33550	86.029	ug/l	97
30) Chloroform	4.06	83	128078	20.975	ug/l	98
31) Cyclohexane	3.90	56	70503	19.543	ug/l	88
32) 1,1,1-Trichloroethane	4.29	97	111673	21.339	ug/l	97
36) 1,1-Dichloropropene	4.48	75	81507	21.904	ug/l	99
37) Ethyl Acetate	4.31	43	30399	17.560	ug/l #	98
38) Carbon Tetrachloride	4.20	117	102410m	25.152	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062417.D
 Acq On : 10 May 2019 12:19
 Operator : FY/SY
 Sample : VF0510SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 3:54:10 PM

Quant Time: May 10 15:00:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	77984	20.896	ug/l	89
40) Benzene	4.83	78	185169	22.598	ug/l	94
41) Methacrylonitrile	4.94	41	17573	19.695	ug/l	96
42) 1,2-Dichloroethane	5.13	62	76385	22.289	ug/l	99
43) Isopropyl Acetate	7.12	43	36224	21.402	ug/l #	92
44) Trichloroethene	5.69	130	66422	22.066	ug/l	94
45) 1,2-Dichloropropane	6.41	63	39021	21.024	ug/l	99
46) Dibromomethane	6.27	93	32415	21.064	ug/l	97
47) Bromodichloromethane	6.56	83	86620	22.514	ug/l	97
48) Methyl methacrylate	6.89	41	24352	20.359	ug/l	95
49) 1,4-Dioxane	6.87	88	5772	462.175	ug/l #	72
51) 4-Methyl-2-Pentanone	8.41	43	128994	100.579	ug/l	99
52) Toluene	7.78	92	112697	22.294	ug/l	99
53) t-1,3-Dichloropropene	8.43	75	66459	22.839	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	75629	22.332	ug/l	93
55) 1,1,2-Trichloroethane	8.64	97	33257	20.724	ug/l	92
56) Ethyl methacrylate	8.76	69	32445	19.153	ug/l	97
57) 1,3-Dichloropropane	9.00	76	49871	20.574	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.46	63	52135	102.371	ug/l	97
59) 2-Hexanone	9.63	43	95334	107.480	ug/l	92
60) Dibromochloromethane	8.87	129	56477	21.519	ug/l	96
61) 1,2-Dibromoethane	9.13	107	38458	20.391	ug/l	95
64) Tetrachloroethene	8.31	164	63849	20.310	ug/l	96
65) Chlorobenzene	9.93	112	136521	21.307	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	64200	19.862	ug/l	97
67) Ethyl Benzene	10.03	91	234497	20.901	ug/l	100
68) m/p-Xylenes	10.26	106	174873	42.244	ug/l	97
69) o-Xylene	10.82	106	95010	21.240	ug/l	95
70) Styrene	10.90	104	142711	21.287	ug/l	99
71) Bromoform	10.88	173	34807	19.656	ug/l #	97
73) Isopropylbenzene	11.21	105	302801	20.691	ug/l	100
74) N-amyl acetate	11.45	43	58244	18.538	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.78	83	44191	19.285	ug/l	95
76) 1,2,3-Trichloropropane	11.87	75	35942	20.559	ug/l #	100
77) Bromobenzene	11.58	156	76080	19.808	ug/l	97
78) n-propylbenzene	11.68	91	323542	20.765	ug/l	98
79) 2-Chlorotoluene	11.80	91	206372	21.301	ug/l	97
80) 1,3,5-Trimethylbenzene	11.89	105	272553	21.248	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	11364m	17.293	ug/l	
82) 4-Chlorotoluene	11.97	91	198062	20.698	ug/l	98
83) tert-Butylbenzene	12.20	119	275663	20.449	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	264317	21.056	ug/l	100
85) sec-Butylbenzene	12.37	105	334712	20.399	ug/l	100
86) p-Isopropyltoluene	12.53	119	320583	21.029	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	147288	20.997	ug/l	99
88) 1,4-Dichlorobenzene	12.62	146	141077	20.838	ug/l	99
89) n-Butylbenzene	12.90	91	295868	21.814	ug/l	98
90) Hexachloroethane	12.98	117	74904	19.678	ug/l	98
91) 1,2-Dichlorobenzene	13.00	146	145382	21.412	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.69	75	9965	19.412	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
Data File : VF062417.D
Acq On : 10 May 2019 12:19
Operator : FY/SY
Sample : VF0510SBS01
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

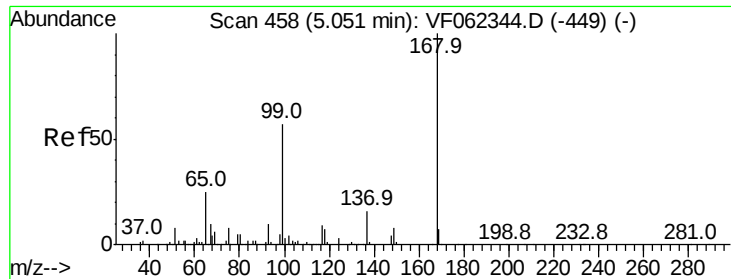
Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM

Quant Time: May 10 15:00:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	133795	21.970	ug/l	98
94) Hexachlorobutadiene	14.23	225	96421	21.243	ug/l	99
95) Naphthalene	14.50	128	176323	19.258	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	125198	21.220	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion:168 Resp: 353294

Ion Ratio Lower Upper

168 100

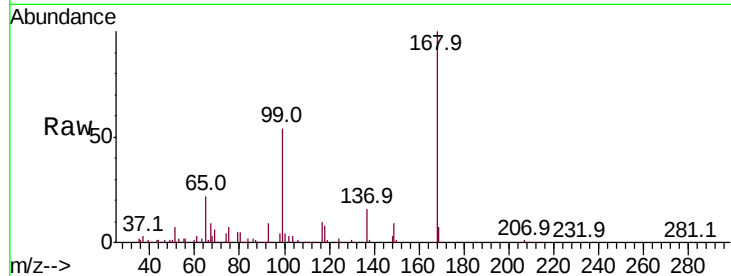
99 54.3 45.9 68.9

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:10 PM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

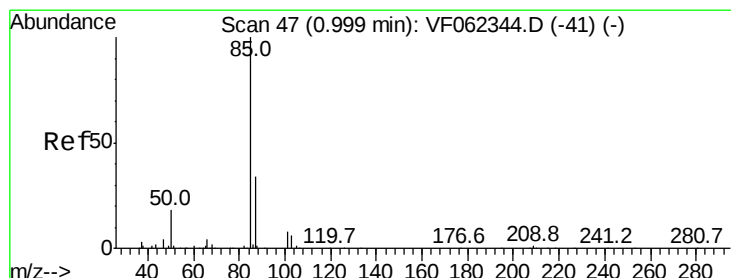
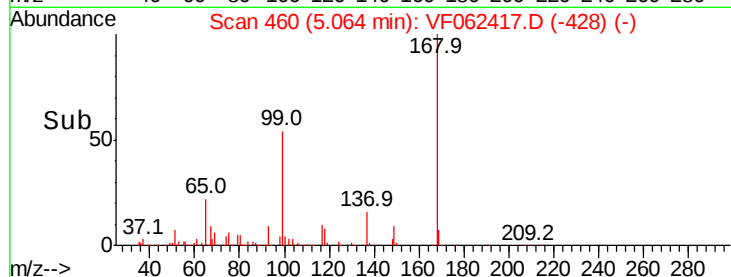
100000

50000

0

Time-->

5.00 5.20 5.40



#2

Dichlorodifluoromethane

Concen: 21.504 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062417.D

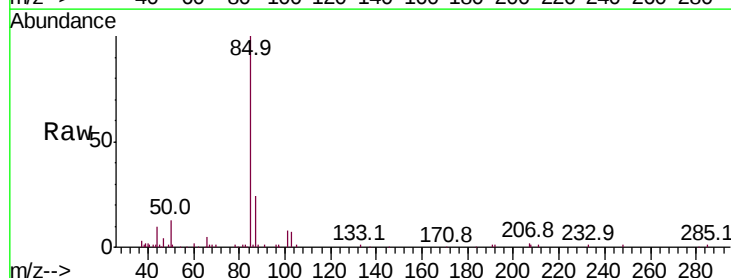
Acq: 10 May 2019 12:19

Tgt Ion: 85 Resp: 87927

Ion Ratio Lower Upper

85 100

87 24.2 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

30000

25000

20000

15000

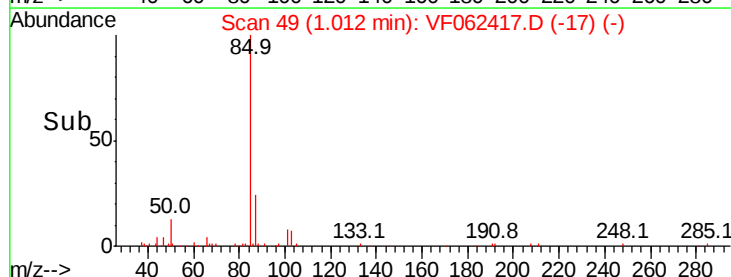
10000

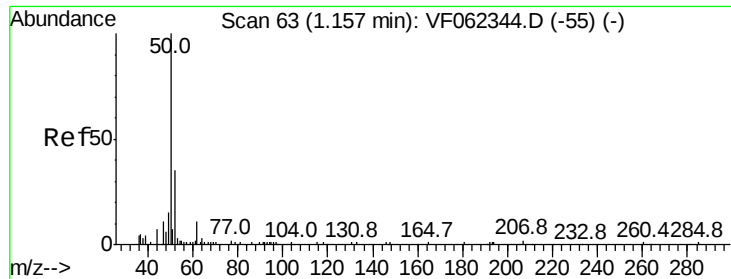
5000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 18.088 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.02 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 50 Resp: 48777

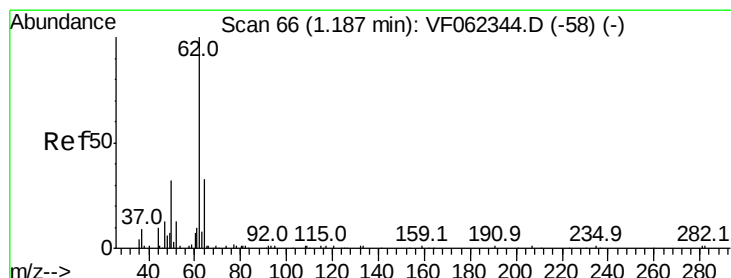
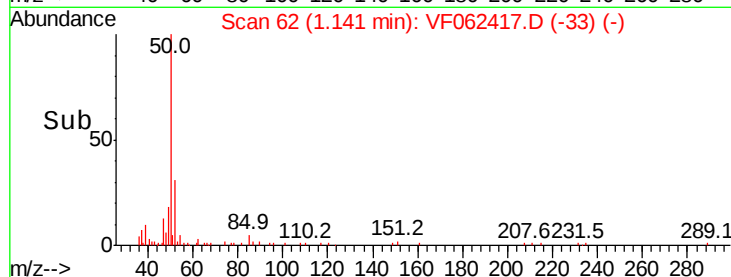
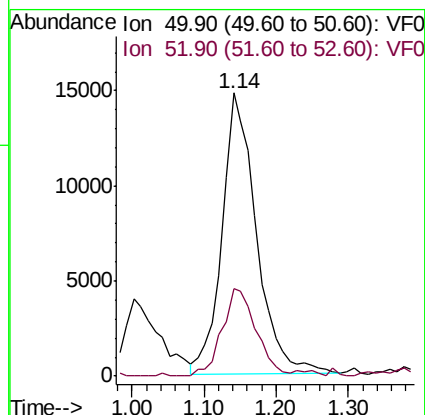
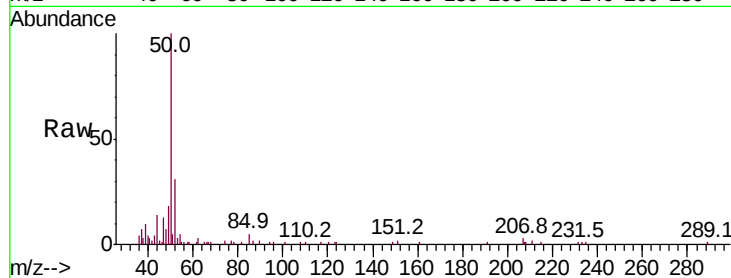
Ion Ratio Lower Upper

50 100

52 31.2 26.1 39.1

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#4

Vinyl Chloride

Concen: 19.043 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062417.D

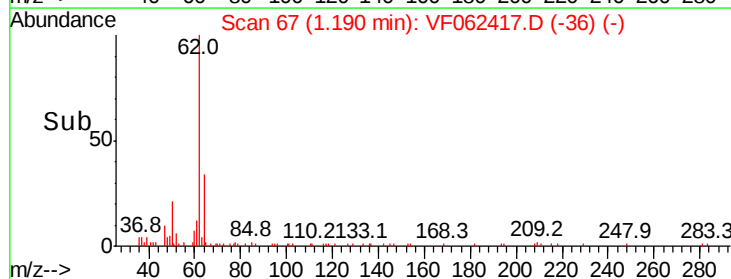
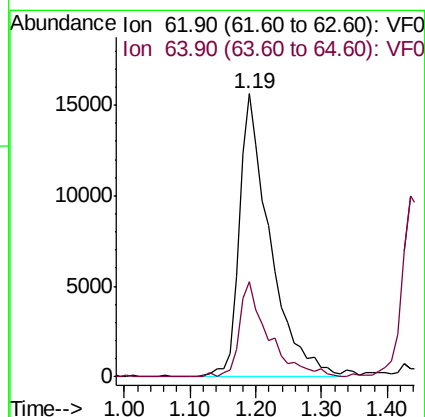
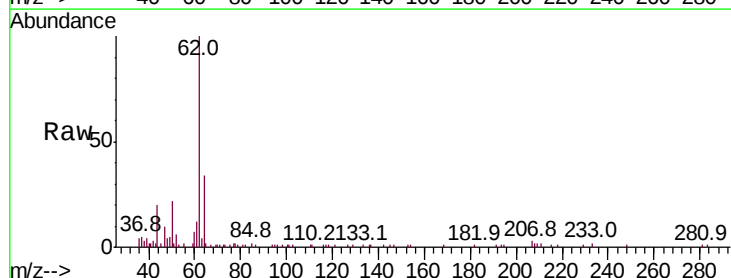
Acq: 10 May 2019 12:19

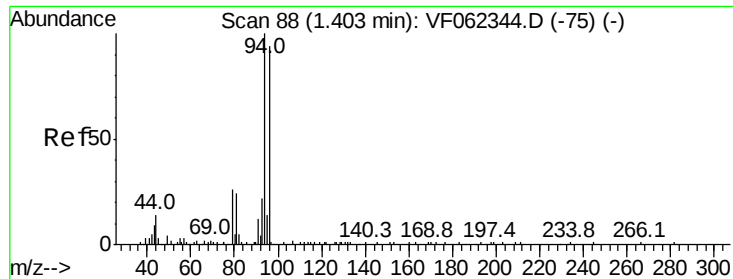
Tgt Ion: 62 Resp: 51222

Ion Ratio Lower Upper

62 100

64 33.6 26.1 39.1





#5

Bromomethane

Concen: 18.692 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.02 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 94 Resp: 41128

Ion Ratio Lower Upper

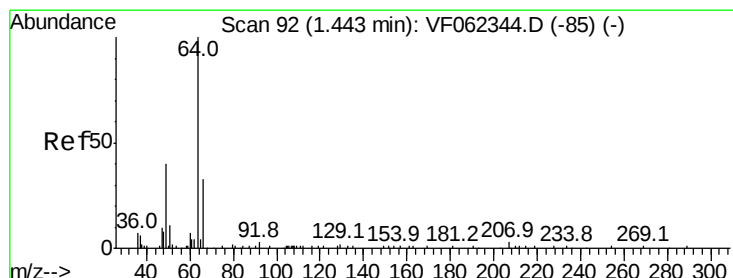
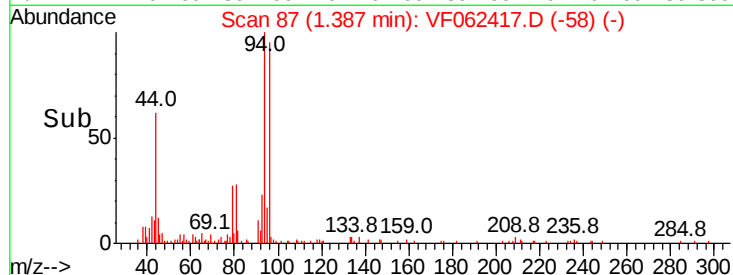
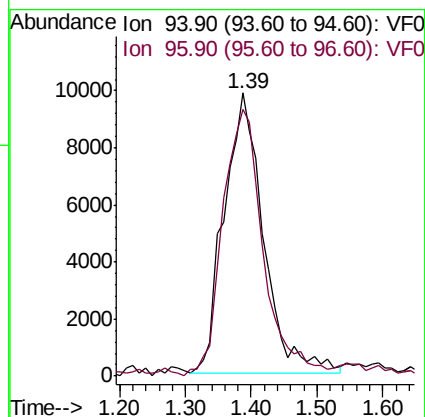
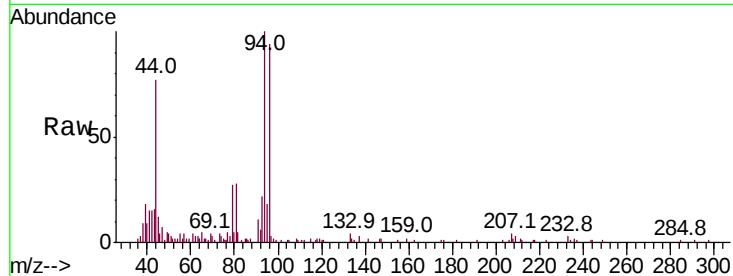
94 100

96 92.5 75.4 113.2

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#6

Chloroethane

Concen: 19.095 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062417.D

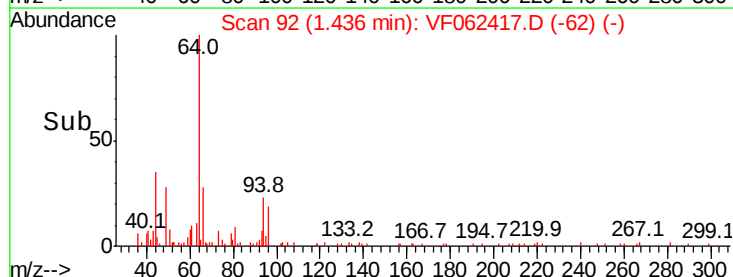
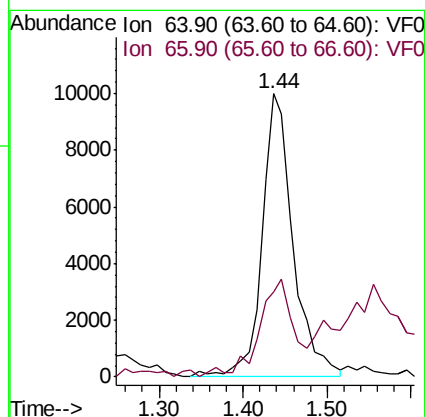
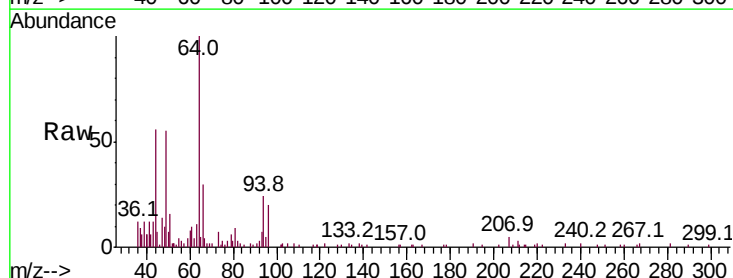
Acq: 10 May 2019 12:19

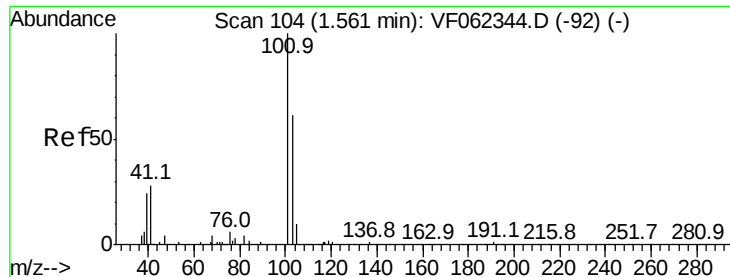
Tgt Ion: 64 Resp: 25822

Ion Ratio Lower Upper

64 100

66 28.0 26.6 39.8





#7

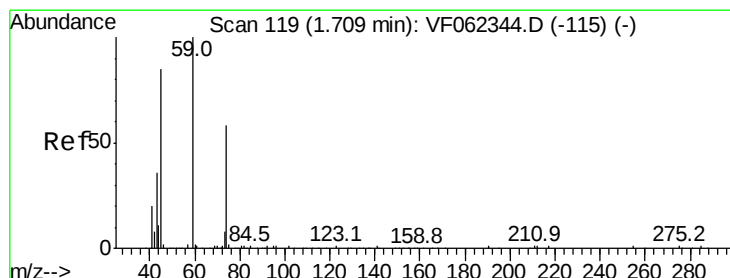
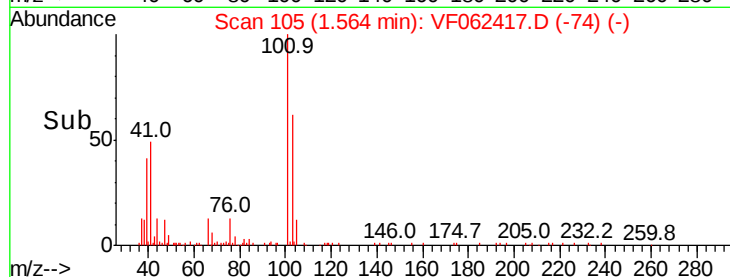
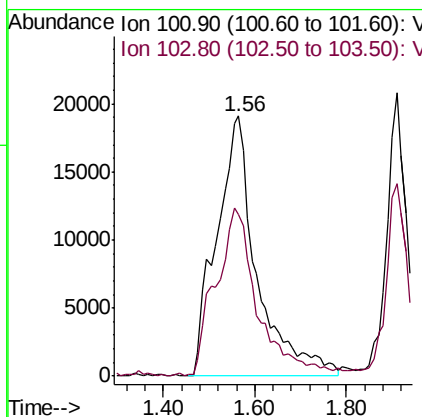
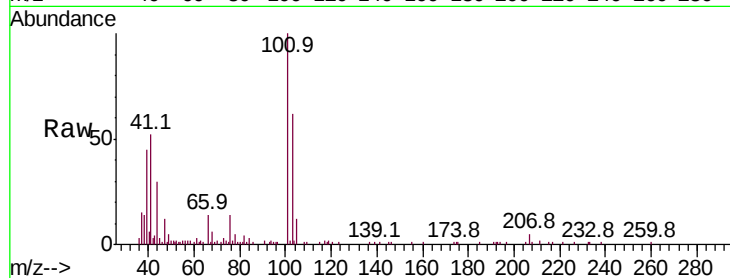
Trichlorofluoromethane
Concen: 20.876 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion:101 Resp: 116507
Ion Ratio Lower Upper
101 100
103 61.2 48.5 72.7

Manual Integrations
APPROVED

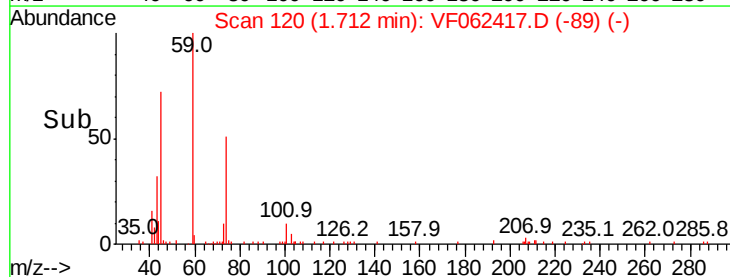
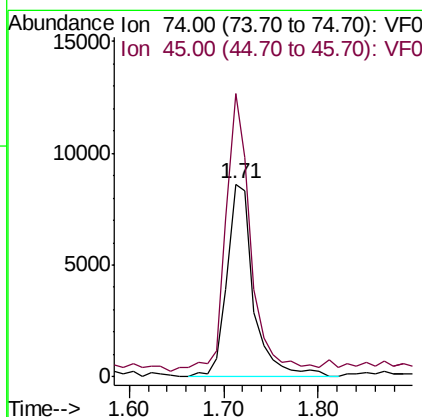
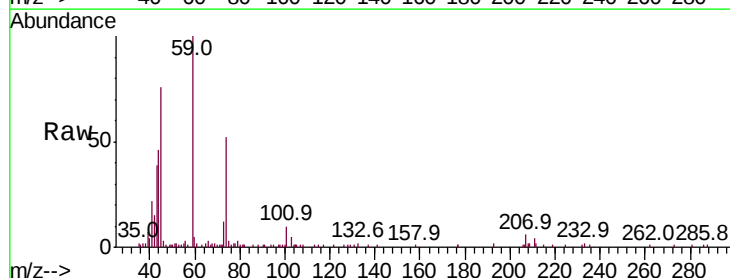
MMDadoda
5/11/2019 3:54:10 PM

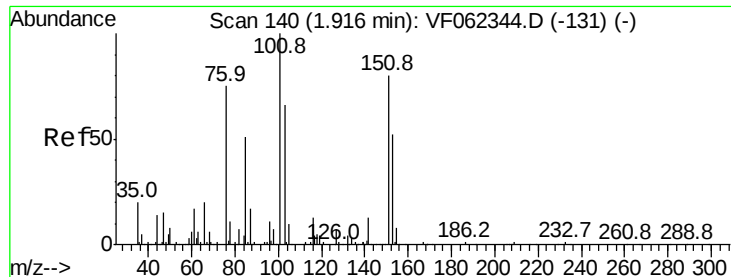


#8

Diethyl Ether
Concen: 20.050 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion: 74 Resp: 16931
Ion Ratio Lower Upper
74 100
45 135.8 73.9 221.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.691 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

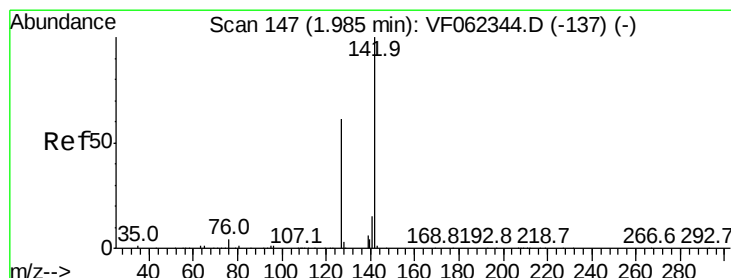
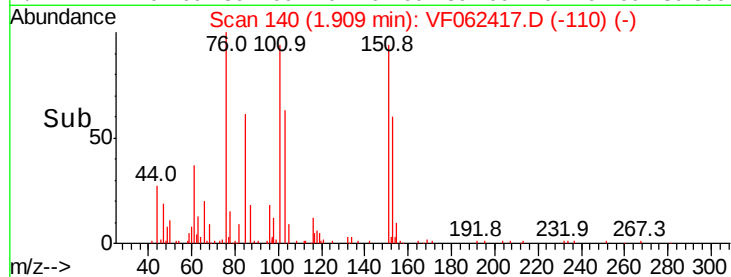
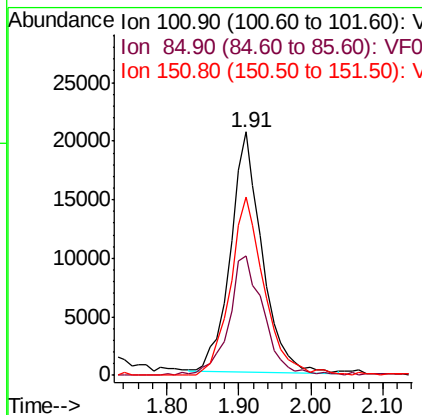
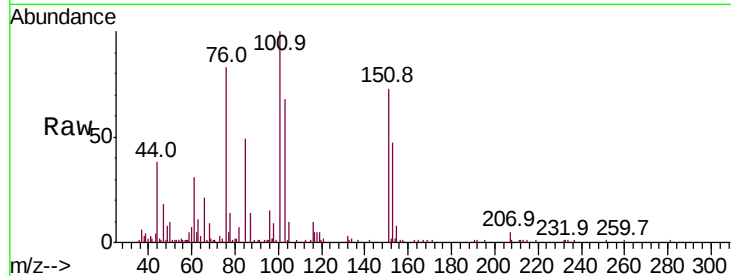
ClientSampleId :

VF0510SBS01

Tot Ion:	101	Resp:	62738
Ion Ratio	Lower	Upper	
101	100		
85	54.5	39.5	59.3
151	79.9	59.9	89.9

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#10

Methyl Iodide

Concen: 21.327 ug/l

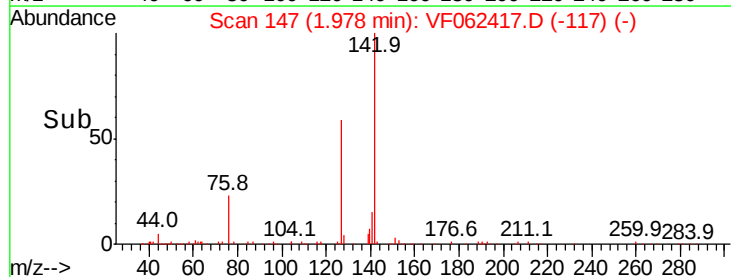
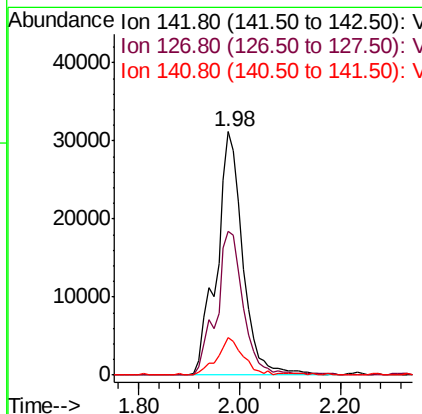
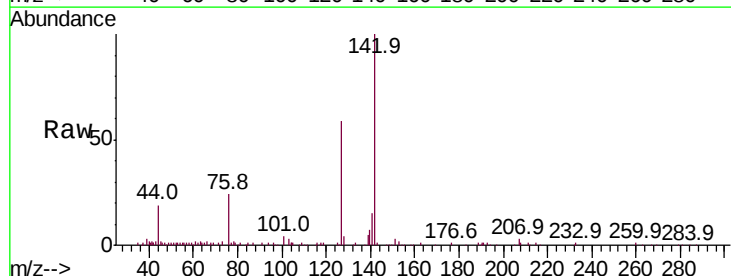
RT: 1.98 min Scan# 147

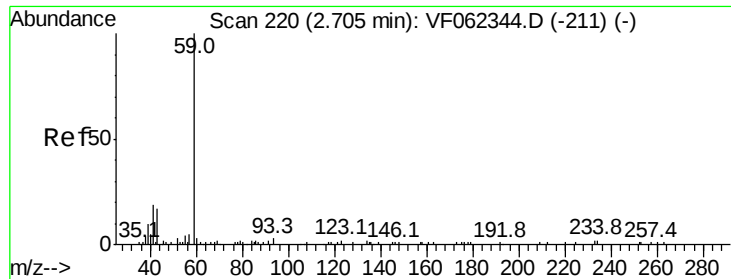
Delta R.T. -0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	142	Resp:	111980
Ion Ratio	Lower	Upper	
142	100		
127	61.0	48.4	72.6
141	15.7	12.2	18.4





#11

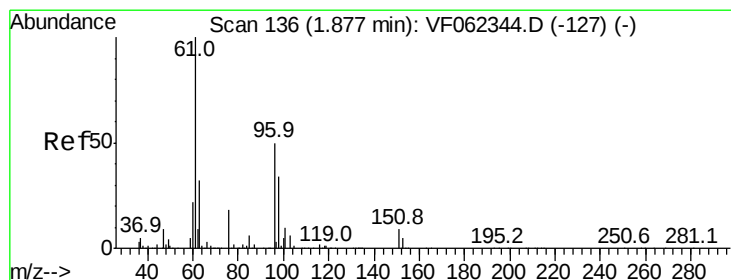
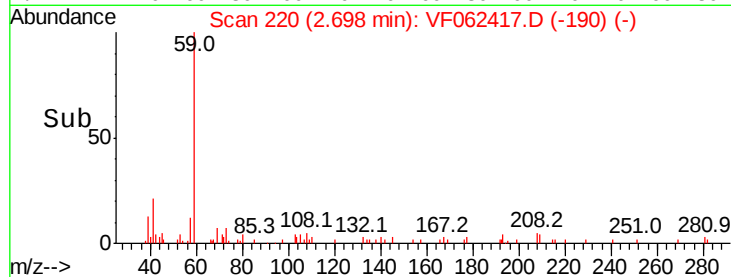
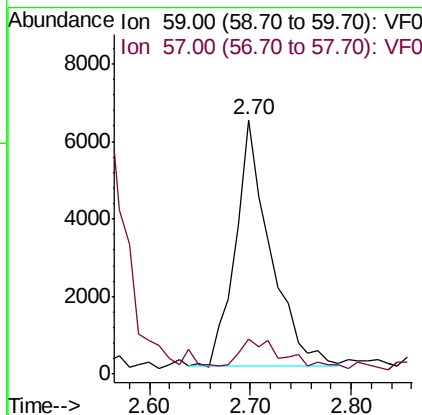
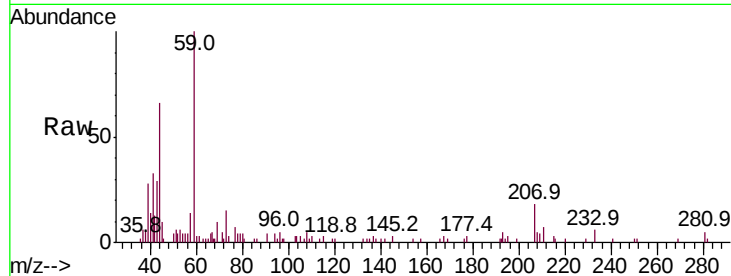
Tert butyl alcohol
Concen: 80.319 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	15156		
57	16.0		9.3	13.9#

Manual Integrations
APPROVED

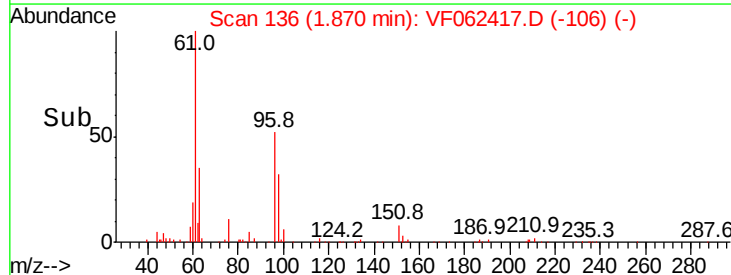
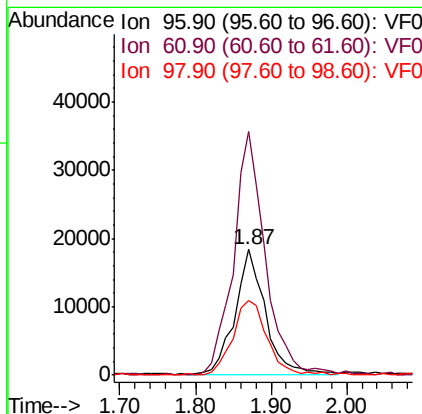
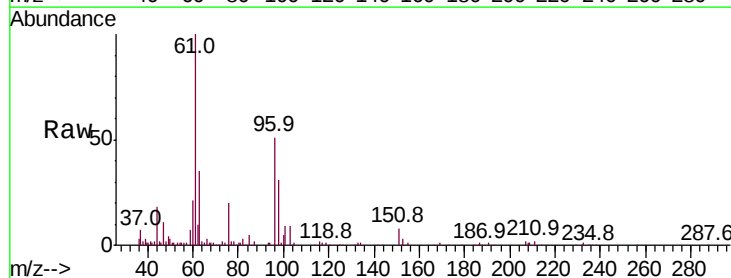
MMDadoda
5/11/2019 3:54:10 PM

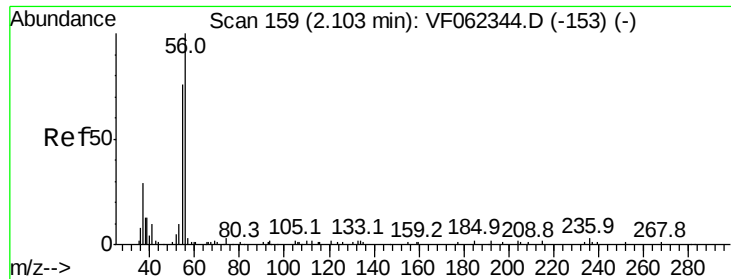


#12

1,1-Dichloroethene
Concen: 19.213 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	52041		
61	194.3		163.2	244.8
98	59.0		55.2	82.8





#13

Acrolein

Concen: 94.574 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 56 Resp: 12562

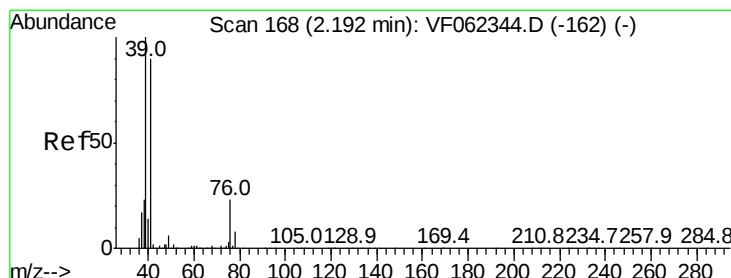
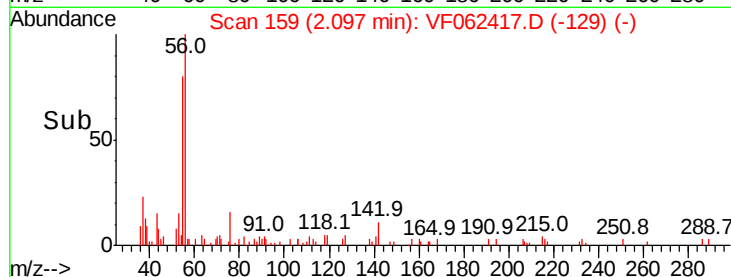
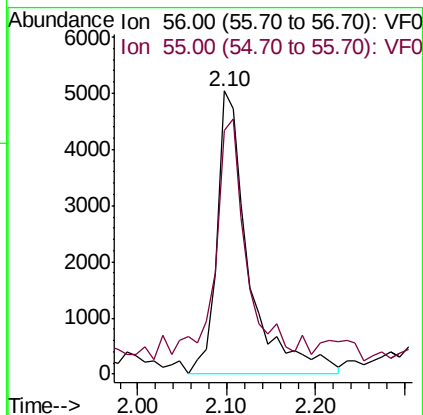
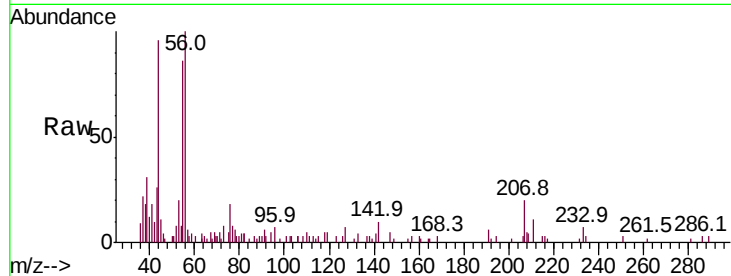
Ion Ratio Lower Upper

56 100

55 78.7 58.4 87.6

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#14

Allyl chloride

Concen: 32.819 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

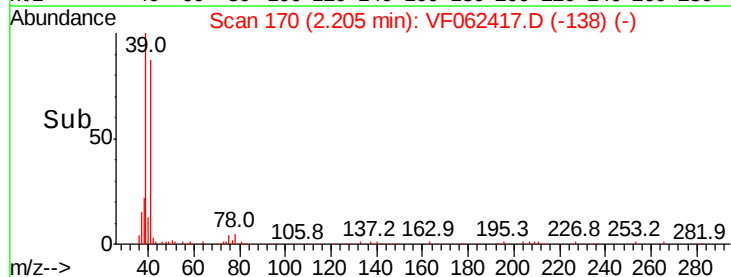
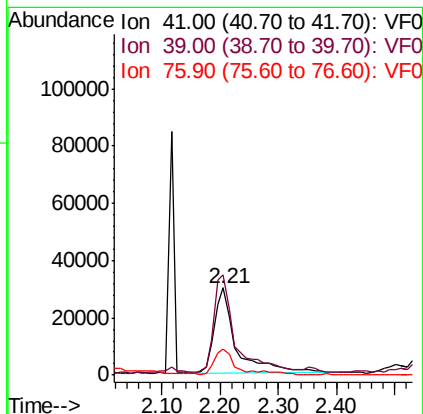
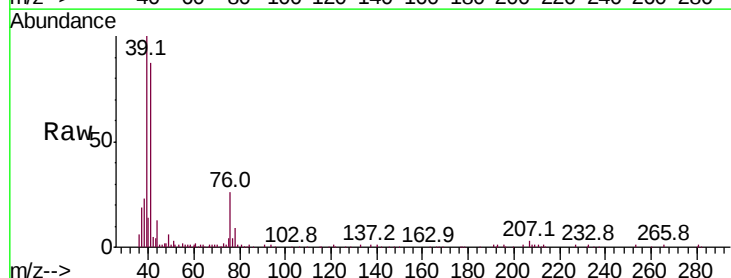
Tgt Ion: 41 Resp: 78526

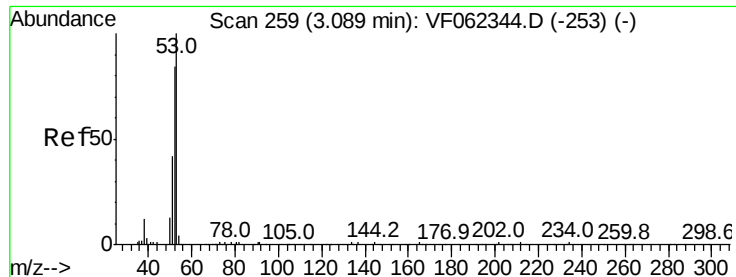
Ion Ratio Lower Upper

41 100

39 113.7 90.8 136.2

76 29.7 22.2 33.4





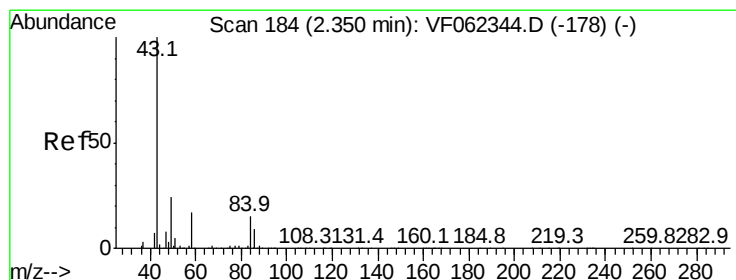
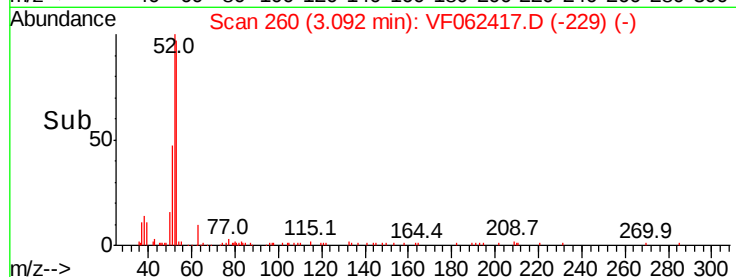
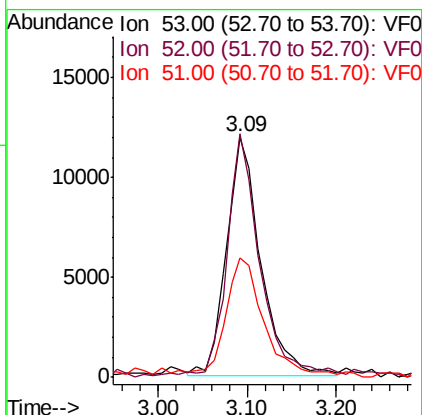
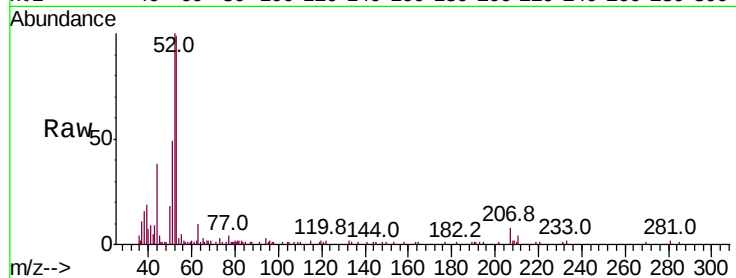
#15
 Acrylonitrile
 Concen: 89.435 ug/l
 RT: 3.09 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	101.4	77.2	115.8
51	57.6	40.6	61.0

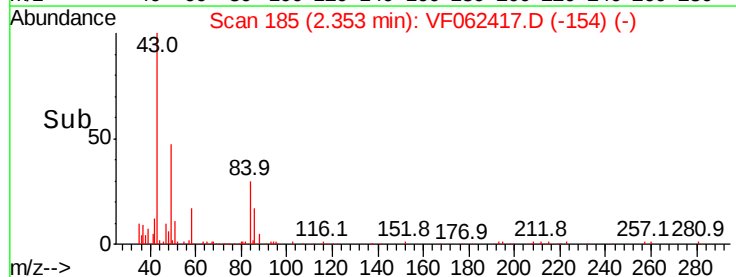
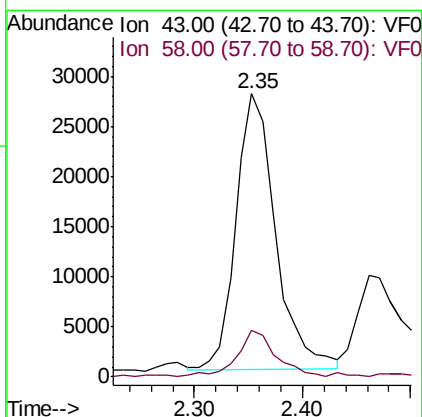
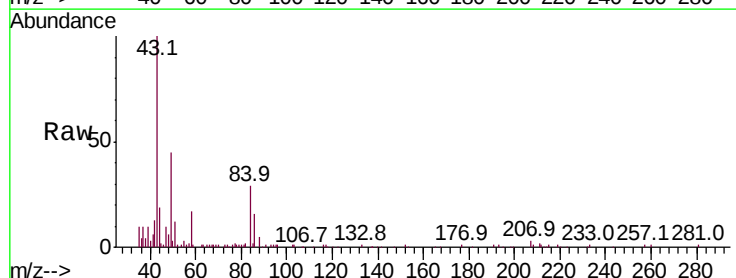
Manual Integrations
 APPROVED

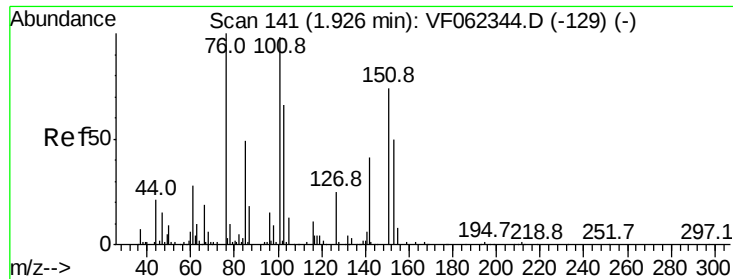
MMDadoda
 5/11/2019 3:54:10 PM



#16
 Acetone
 Concen: 103.712 ug/l
 RT: 2.35 min Scan# 185
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.5	13.1	19.7





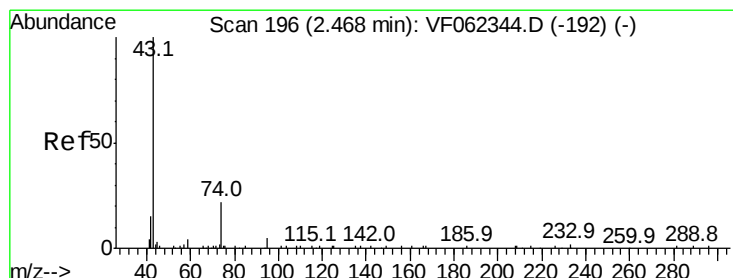
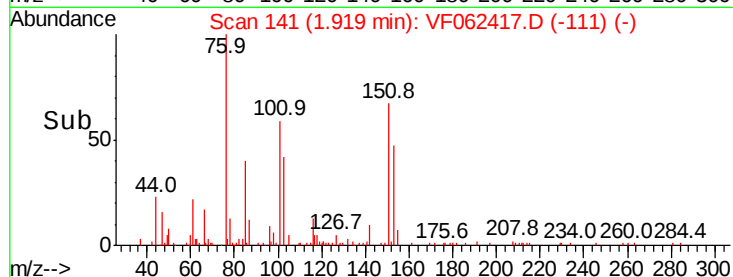
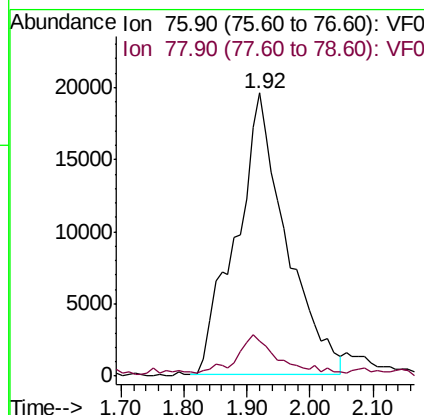
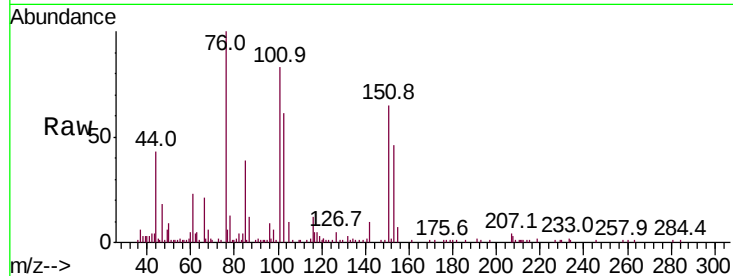
#17
Carbon Disulfide
Concen: 18.278 ug/l
RT: 1.92 min Scan# 141
Delta R.T. -0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.0	9.0	13.4

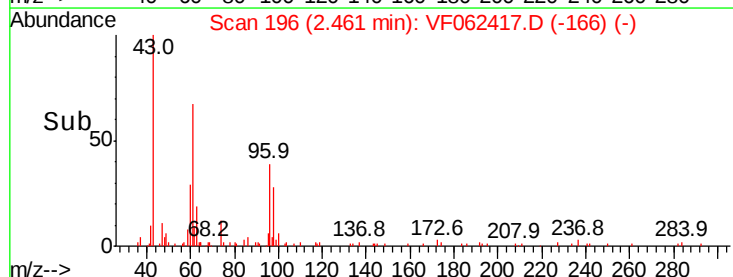
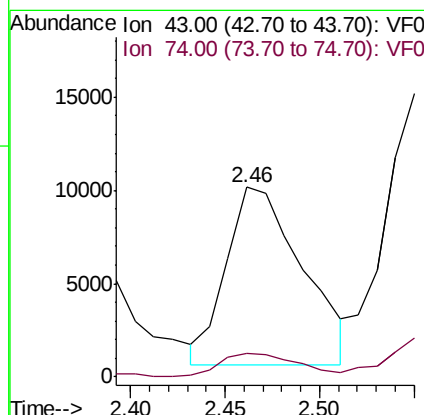
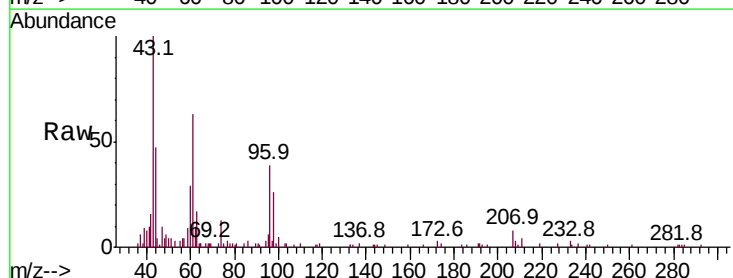
Manual Integrations
APPROVED

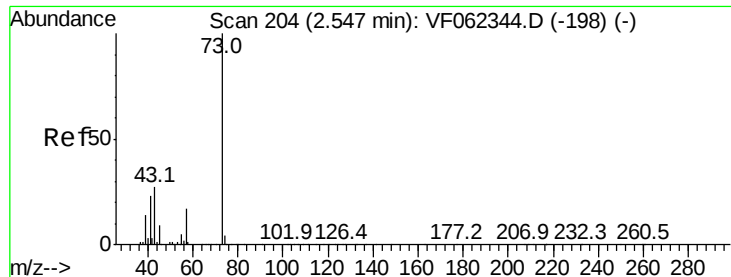
MMDadoda
5/11/2019 3:54:10 PM



#18
Methyl Acetate
Concen: 19.659 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	14.0	15.0	22.4#





#19

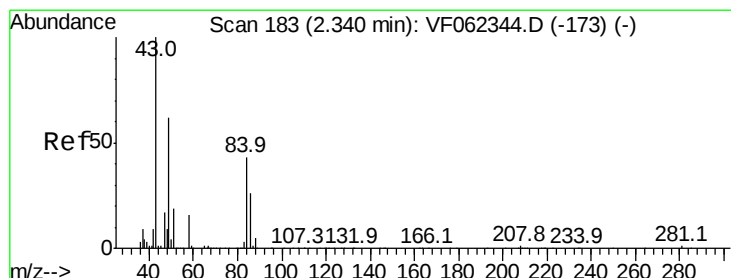
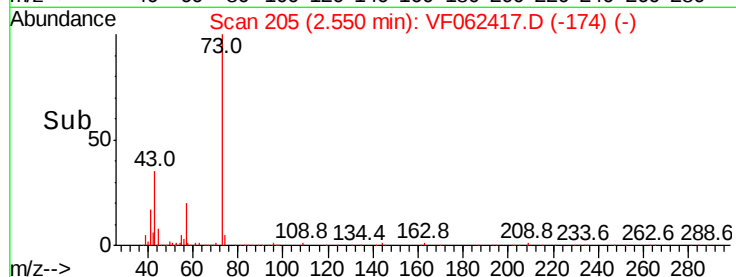
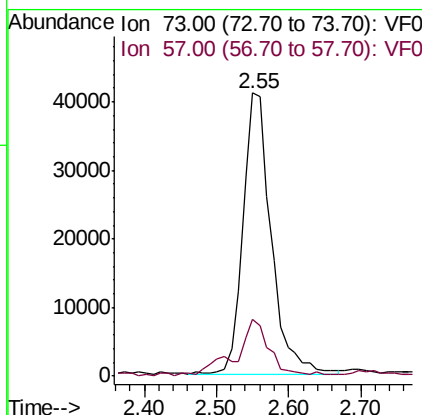
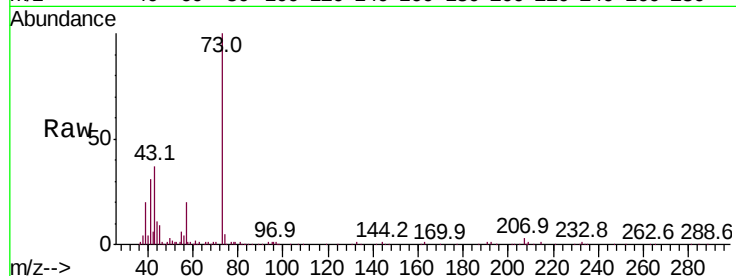
Methyl tert-butyl Ether
Concen: 20.219 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.7	13.7	20.5

Manual Integrations
APPROVED

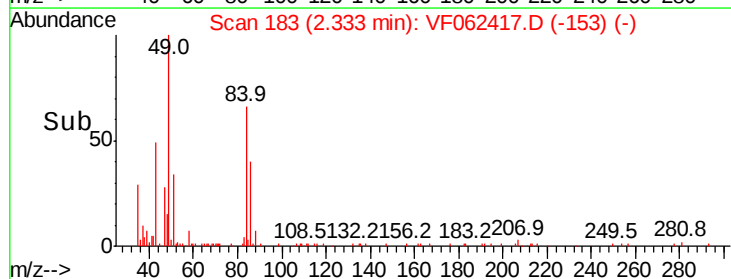
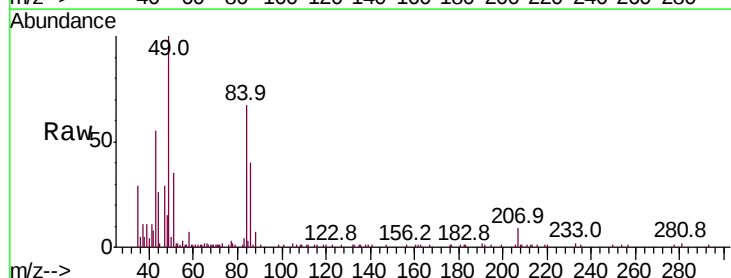
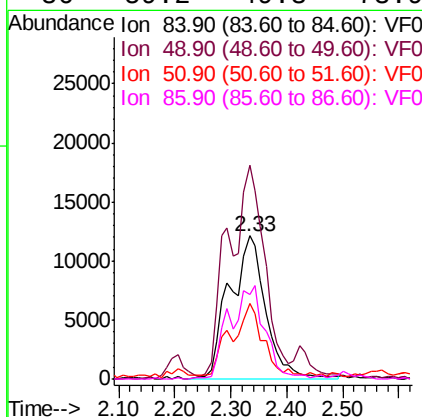
MMDadoda
5/11/2019 3:54:10 PM

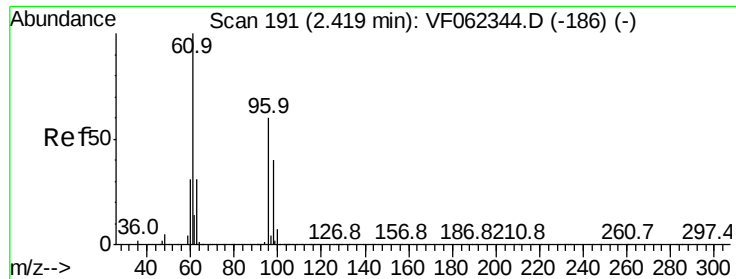


#20

Methylene Chloride
Concen: 22.368 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.9	117.5	176.3
51	49.6	37.0	55.4
86	59.2	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 19.351 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

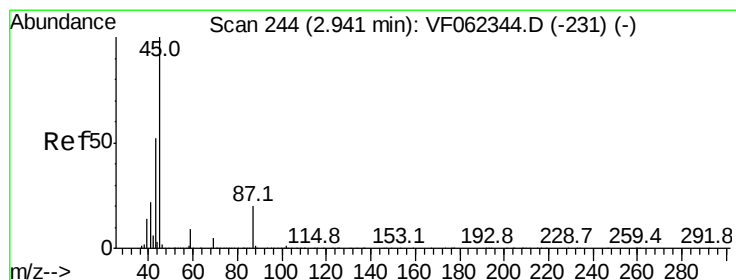
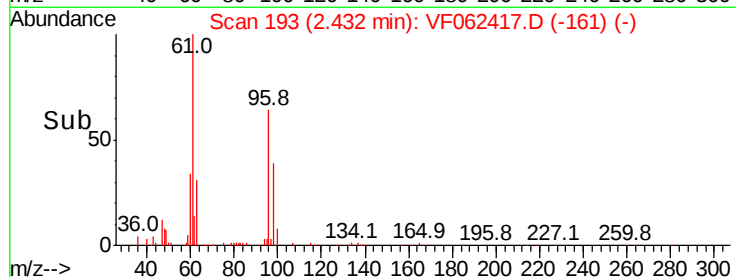
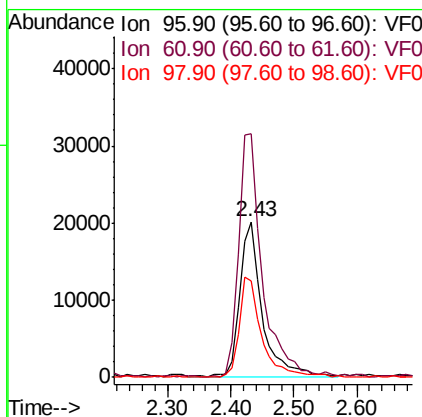
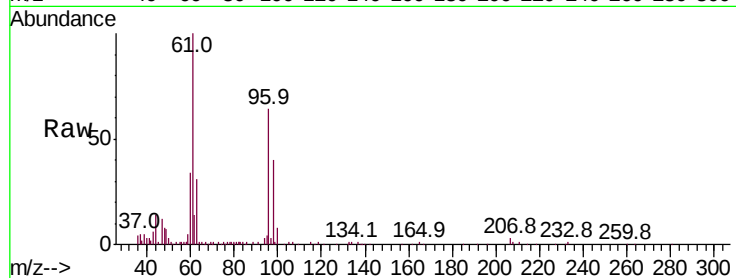
ClientSampleId :

VF0510SBS01

Tot Ion:	96	Resp:	49938
Ion	Ratio	Lower	Upper
96	100		
61	155.8	133.2	199.8
98	61.5	53.1	79.7

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#22

Diisopropyl ether

Concen: 19.257 ug/l

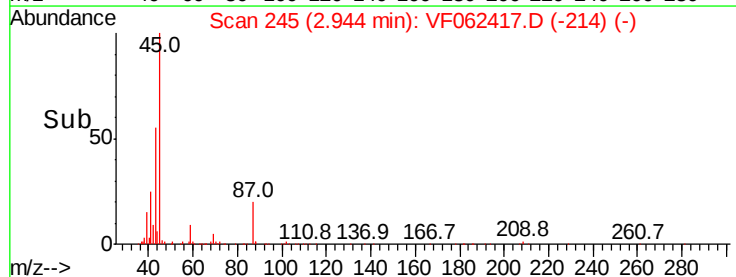
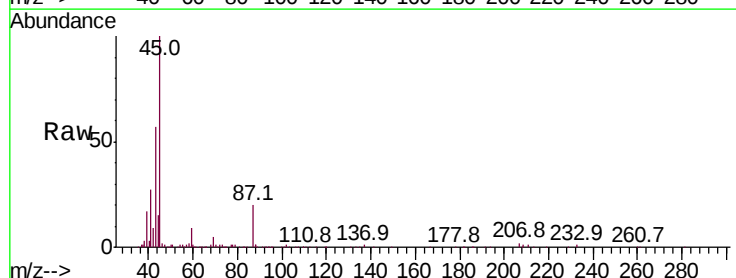
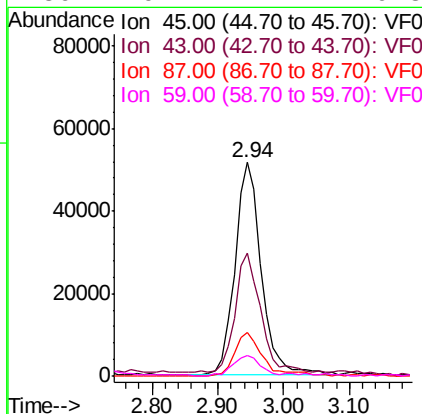
RT: 2.94 min Scan# 245

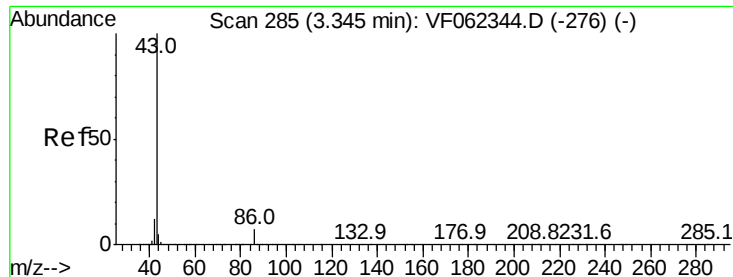
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	45	Resp:	144010
Ion	Ratio	Lower	Upper
45	100		
43	55.8	41.4	62.0
87	20.4	15.8	23.6
59	9.1	7.2	10.8





#23

Vinyl Acetate

Concen: 98.572 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 43 Resp: 328539

Ion Ratio Lower Upper

43 100

86 6.0

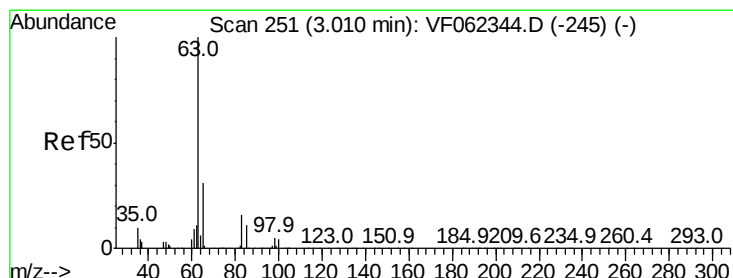
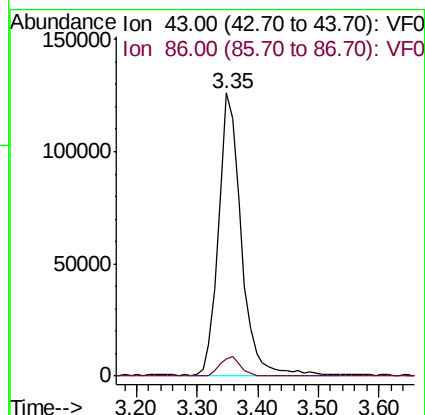
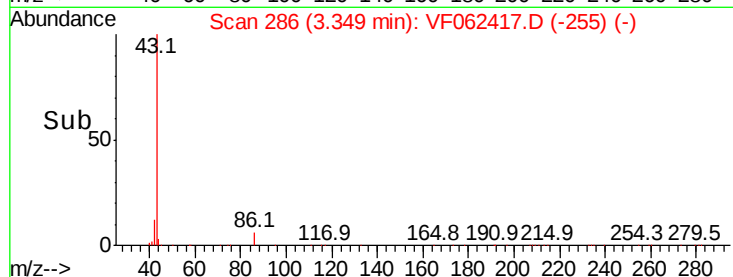
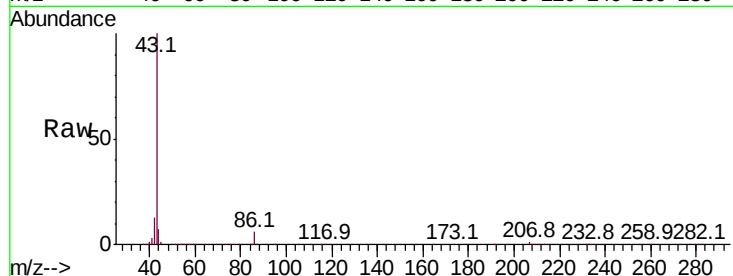
5.7

8.5

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#24

1,1-Dichloroethane

Concen: 21.285 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion: 63 Resp: 96203

Ion Ratio Lower Upper

63 100

98 4.9

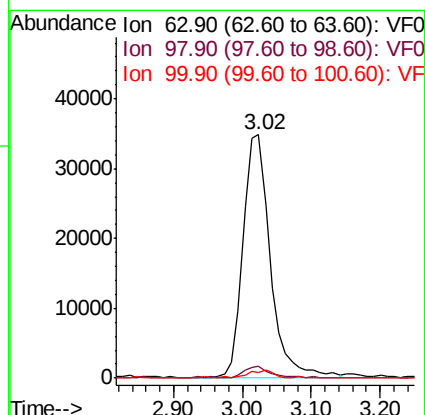
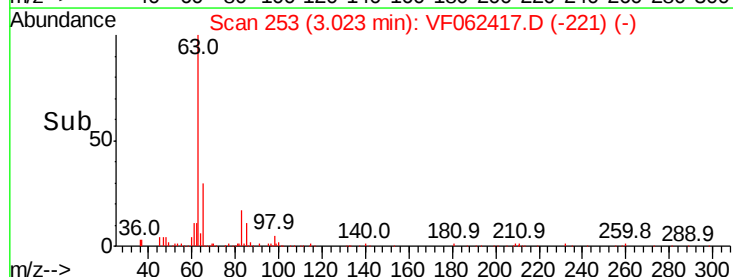
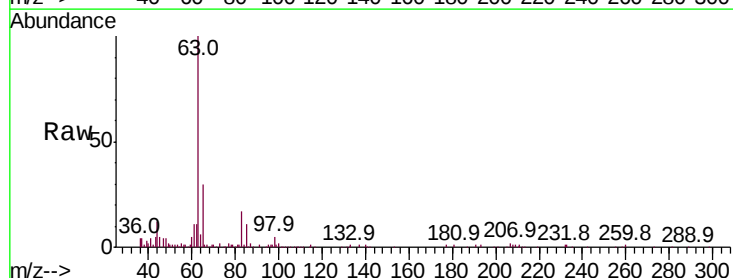
2.6

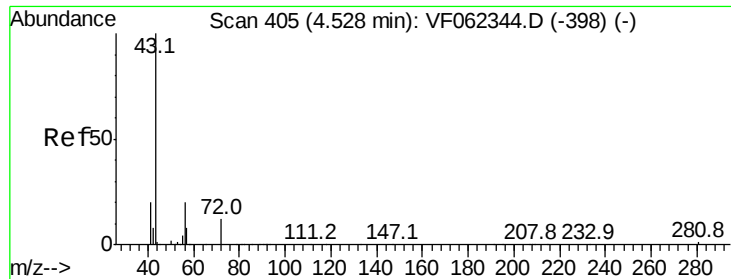
8.0

100 2.2

1.8

5.4





#25

2-Butanone

Concen: 97.497 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 43 Resp: 82730

Ion Ratio Lower Upper

43 100

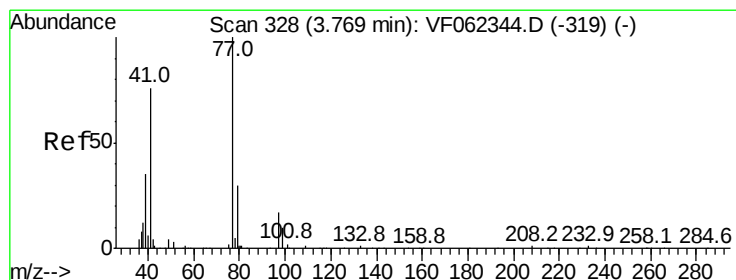
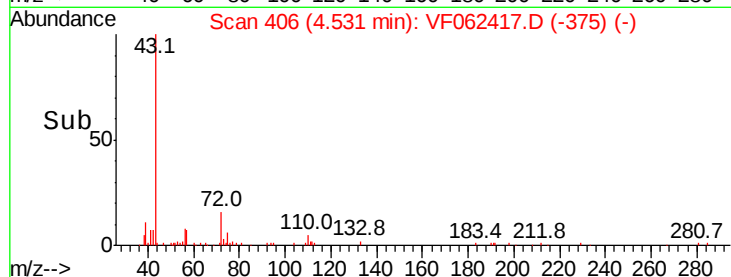
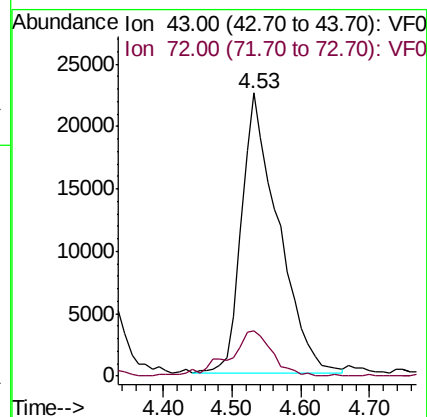
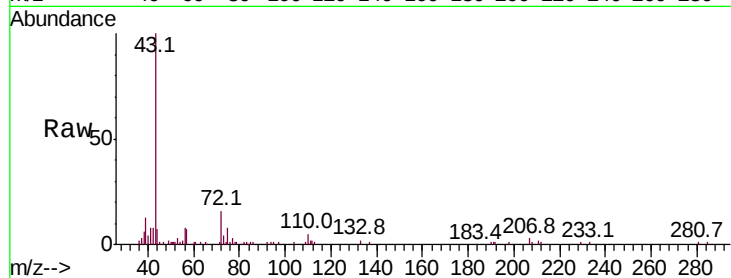
72 16.4 14.2 21.4

Manual Integrations

APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#26

2,2-Dichloropropane

Concen: 25.049 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.02 min

Lab File: VF062417.D

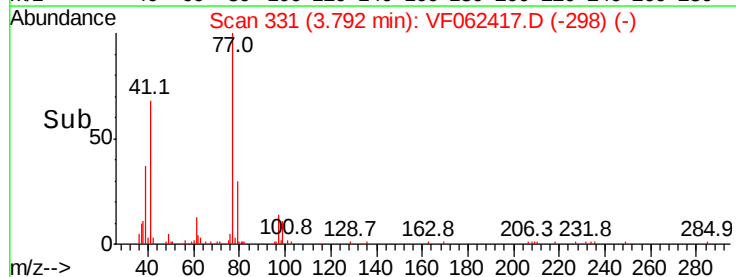
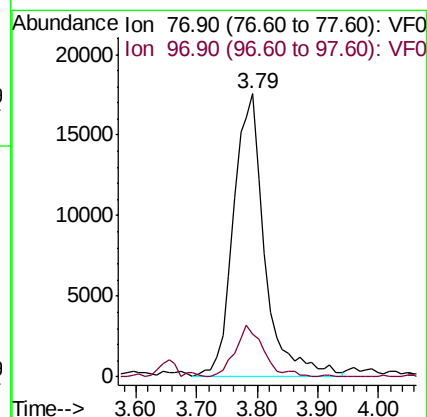
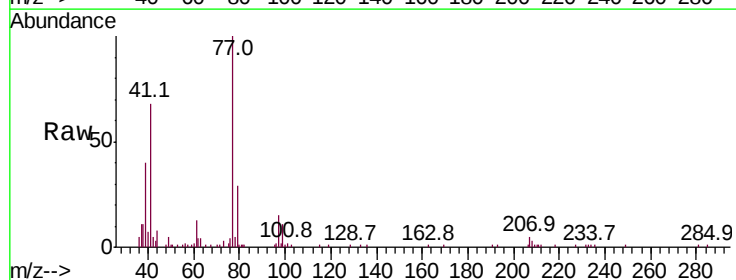
Acq: 10 May 2019 12:19

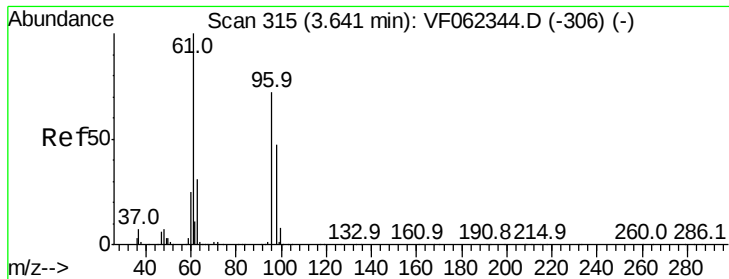
Tgt Ion: 77 Resp: 63224

Ion Ratio Lower Upper

77 100

97 16.7 9.5 28.5





#27

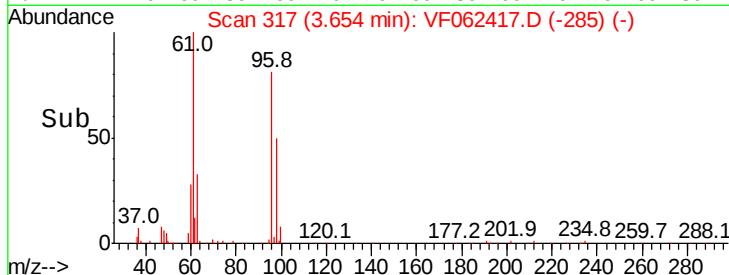
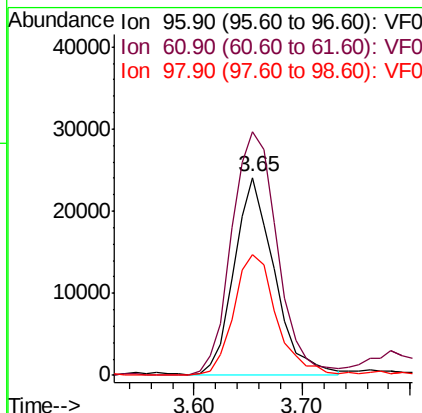
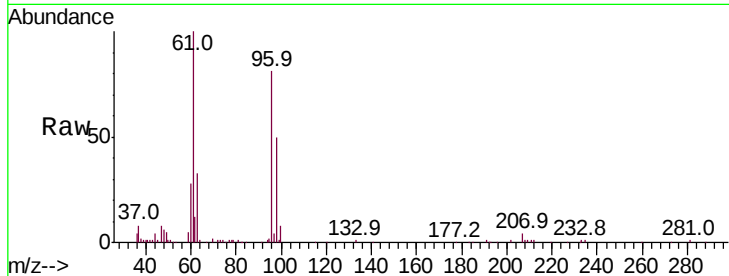
cis-1,2-Dichloroethene
Concen: 19.115 ug/l
RT: 3.65 min Scan# 317
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	61664		
61	142.0	0.0	263.0	
98	66.1	0.0	130.8	

Manual Integrations
APPROVED

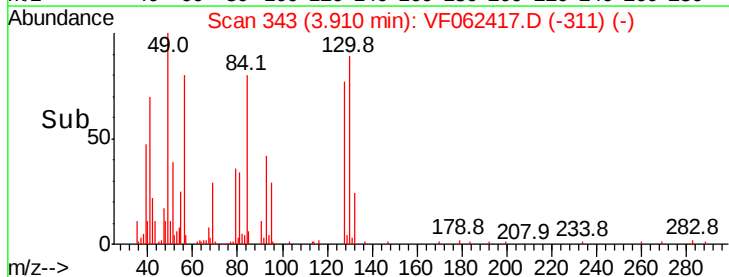
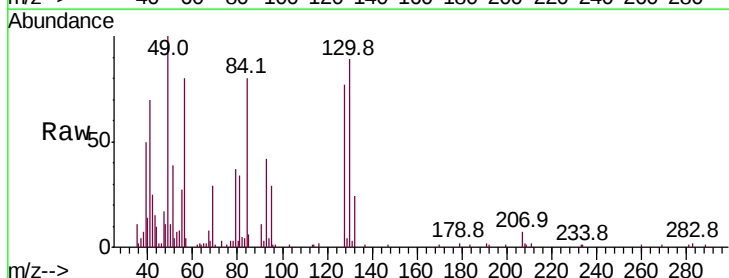
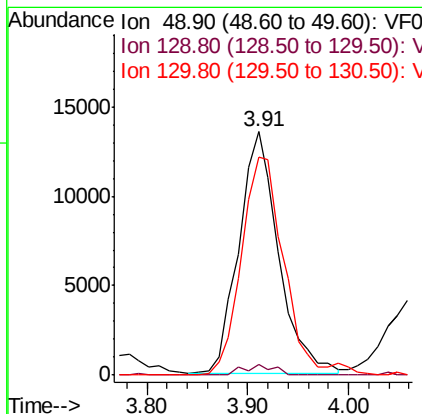
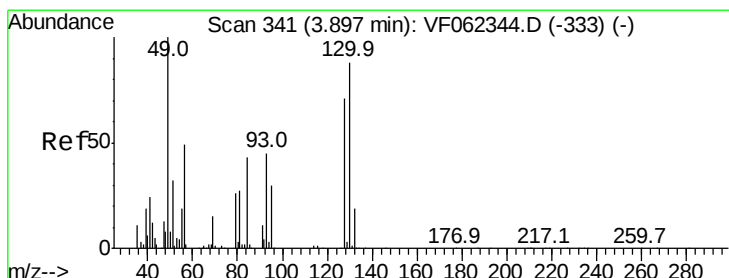
MMDadoda
5/11/2019 3:54:10 PM

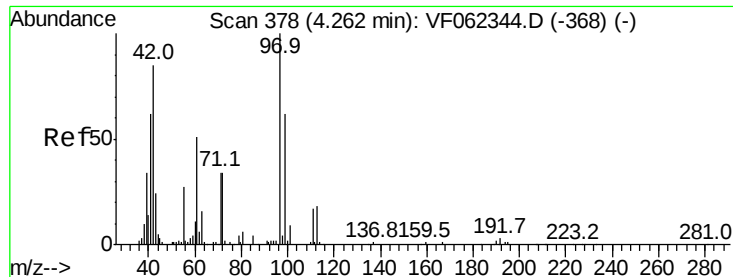


#28

Bromochloromethane
Concen: 18.038 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	36974		
129	3.3	0.0	2.2#	
130	95.2	79.4	119.0	





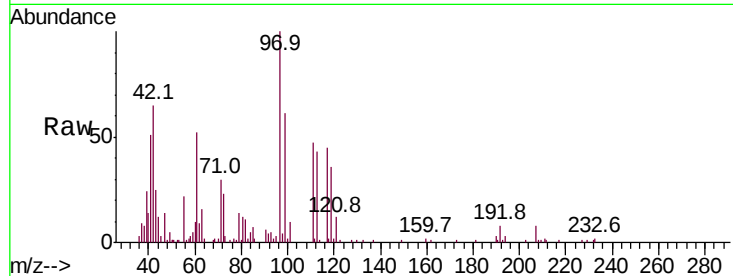
#29
Tetrahydrofuran
Concen: 86.029 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

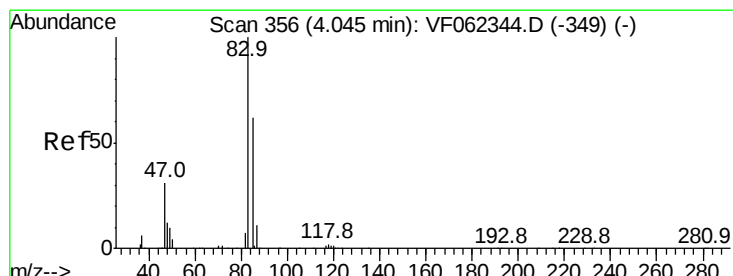
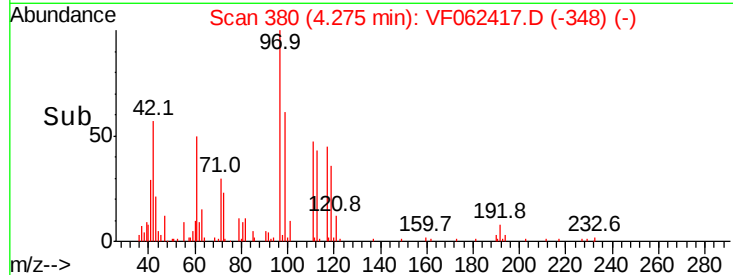
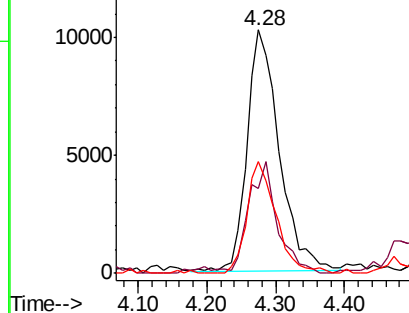
Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	31.4	47.0
71	41.7	31.7	47.5

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM

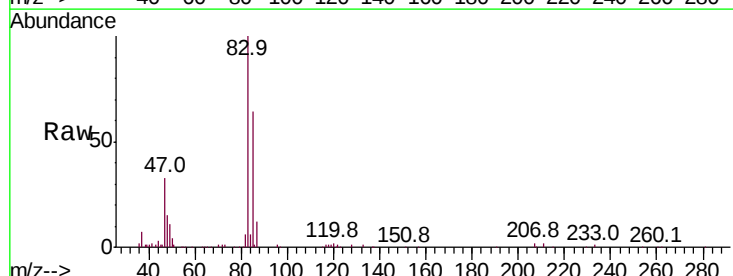


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

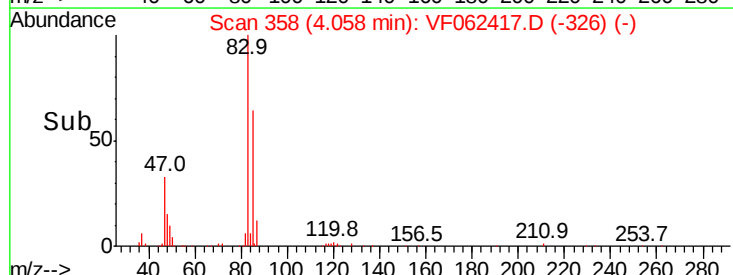
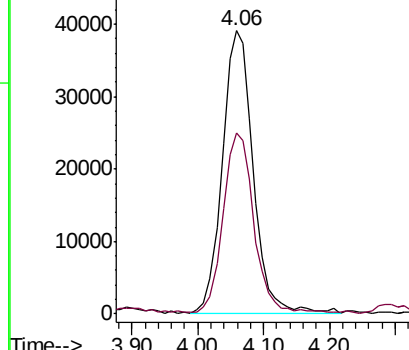


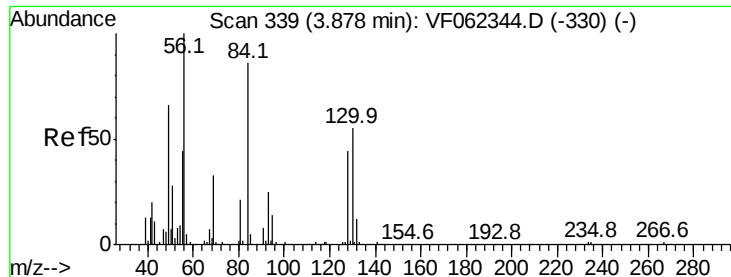
#30
Chloroform
Concen: 20.975 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.6	74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0





#31

Cyclohexane

Concen: 19.543 ug/l

RT: 3.90 min Scan# 342

Delta R.T. 0.02 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

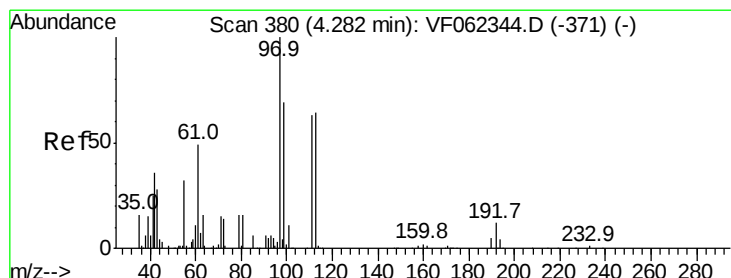
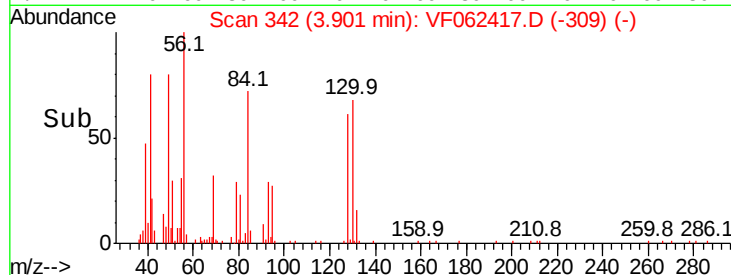
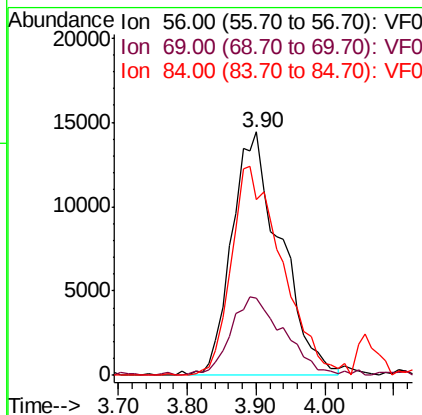
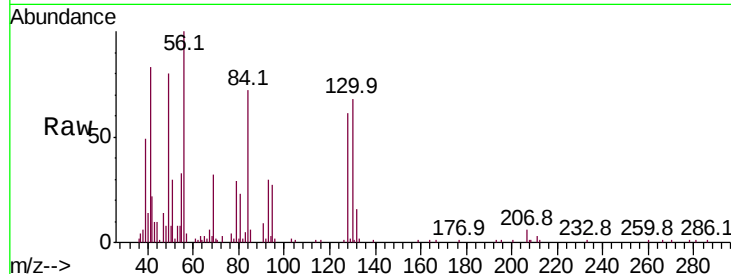
ClientSampleId :

VF0510SBS01

Tot Ion:	56	Resp:	70503
Ion Ratio	Lower	Upper	
56	100		
69	31.2	26.4	39.6
84	71.9	69.0	103.6

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#32

1,1,1-Trichloroethane

Concen: 21.339 ug/l

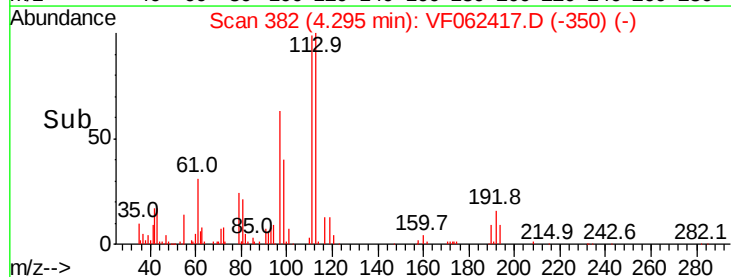
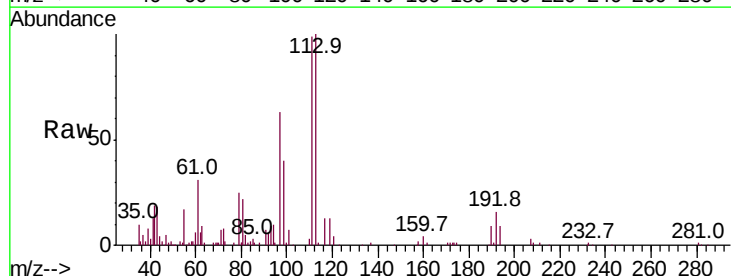
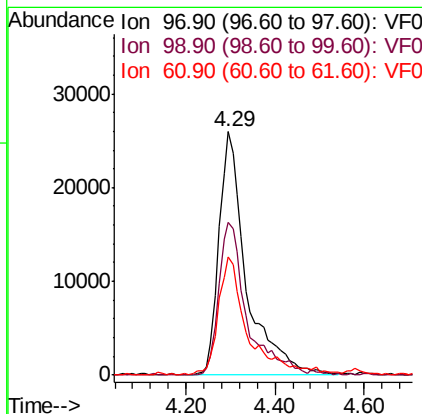
RT: 4.29 min Scan# 382

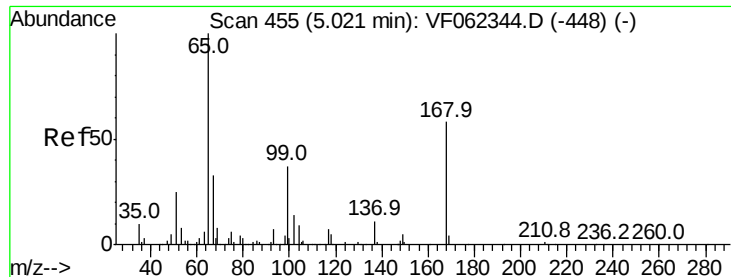
Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	97	Resp:	111673
Ion Ratio	Lower	Upper	
97	100		
99	63.7	52.6	78.8
61	52.0	39.4	59.0





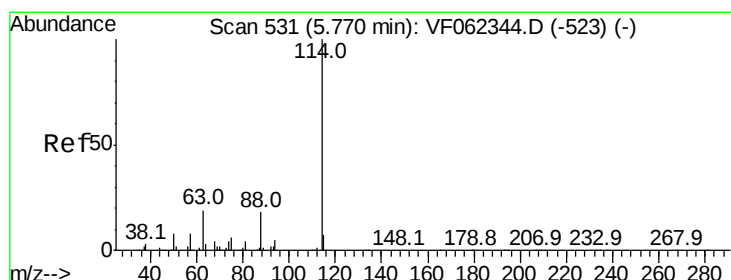
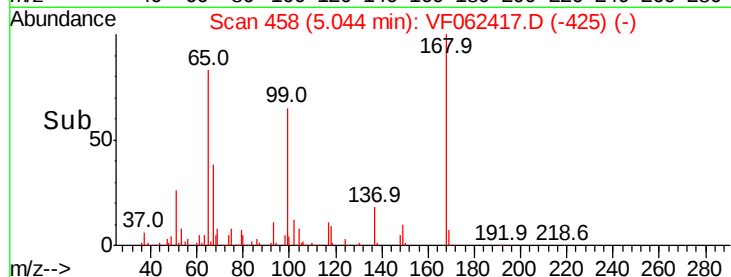
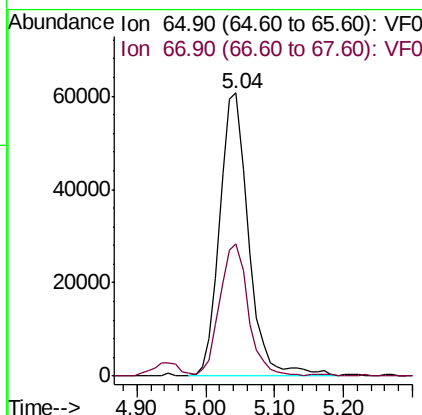
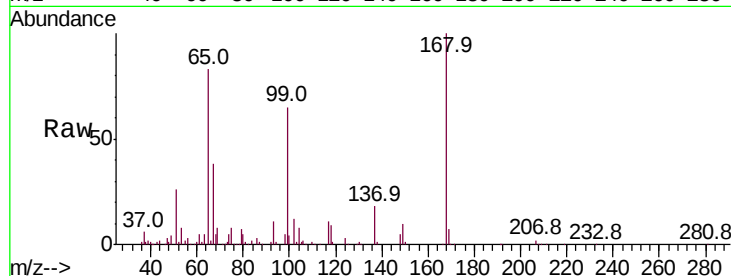
#33
 1,2-Dichloroethane-d4
 Concen: 52.973 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.02 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	176864		
67	45.0	0.0	85.8	

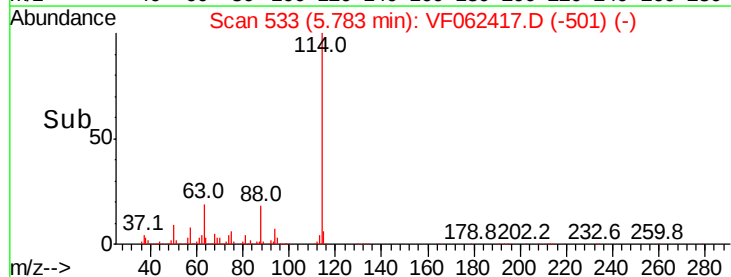
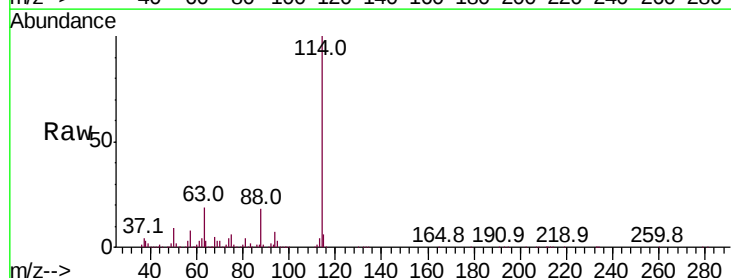
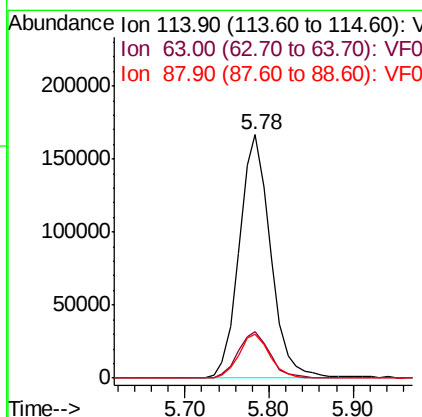
Manual Integrations
 APPROVED

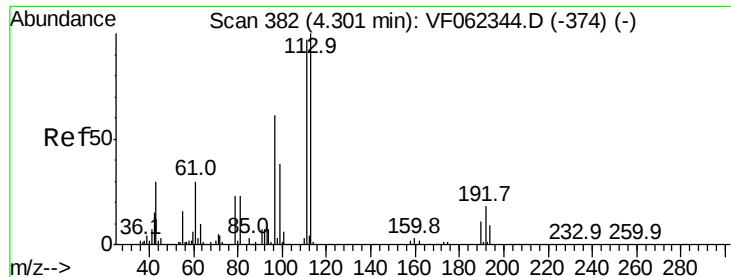
MMDadoda
 5/11/2019 3:54:10 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	433174		
63	19.0	0.0	37.4	
88	17.8	0.0	36.4	





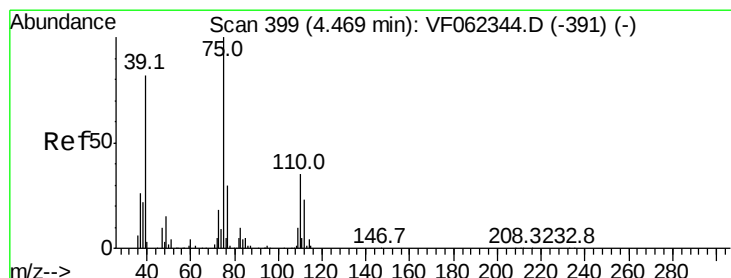
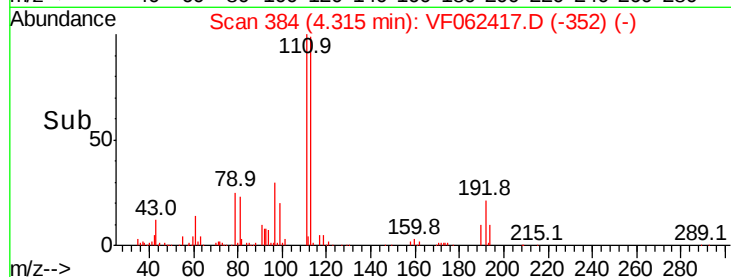
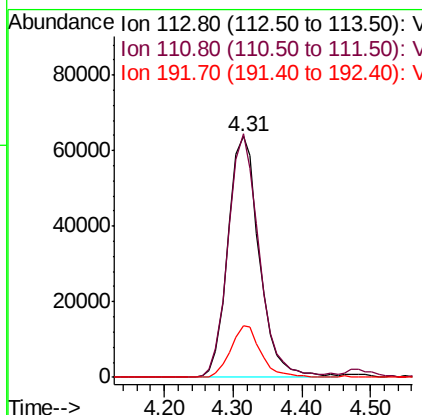
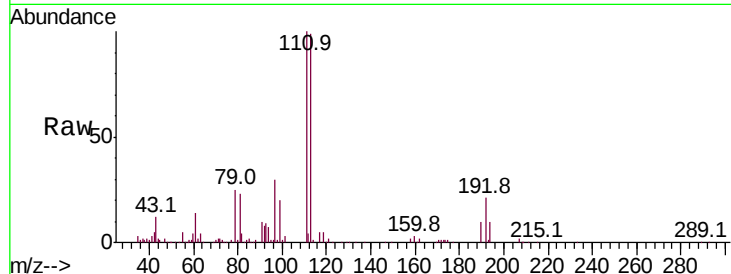
#35
 Dibromofluoromethane
 Concen: 58.605 ug/l
 RT: 4.31 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	99.4	79.4	119.0
192	20.7	16.0	24.0

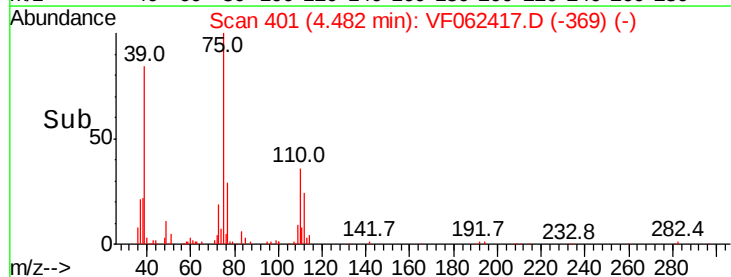
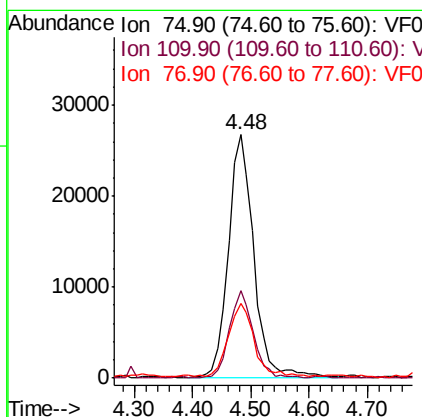
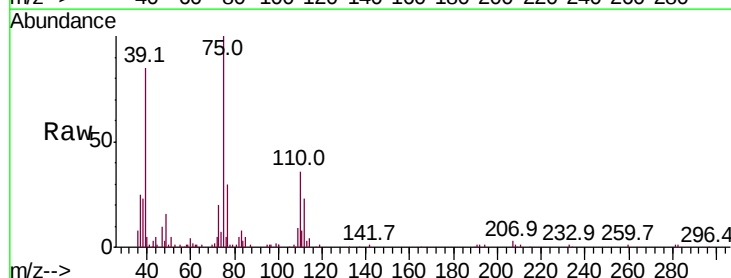
Manual Integrations
 APPROVED

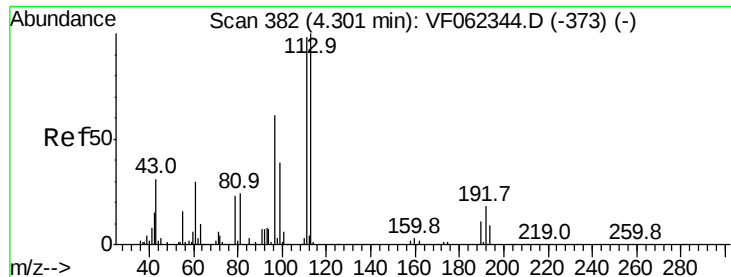
MMDadoda
 5/11/2019 3:54:10 PM



#36
 1,1-Dichloropropene
 Concen: 21.904 ug/l
 RT: 4.48 min Scan# 401
 Delta R.T. 0.01 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.2	51.5
77	31.4	25.2	37.8





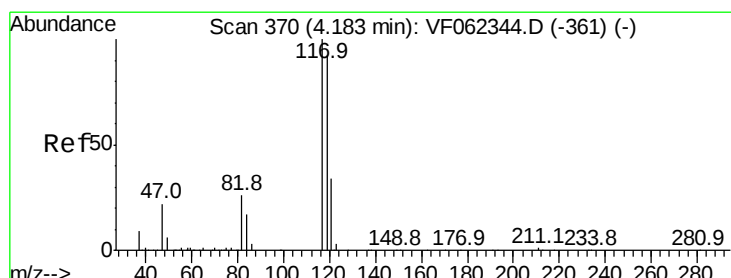
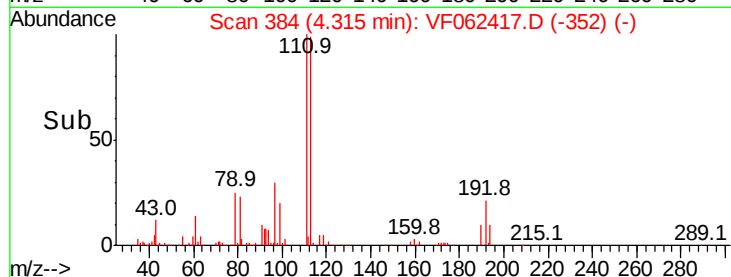
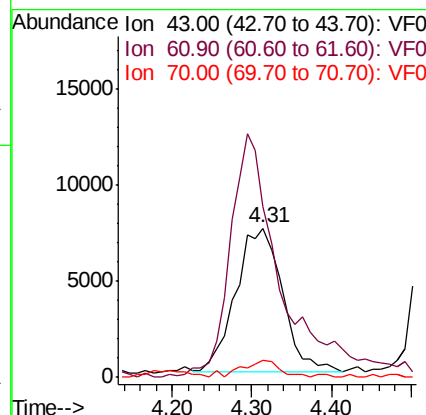
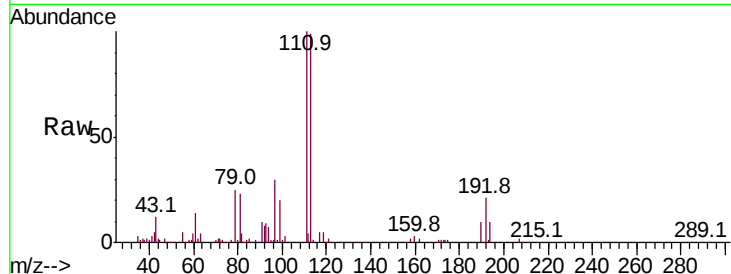
#37
Ethyl Acetate
Concen: 17.560 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	190.9	0.0	0.0#
70	9.6	8.2	12.2

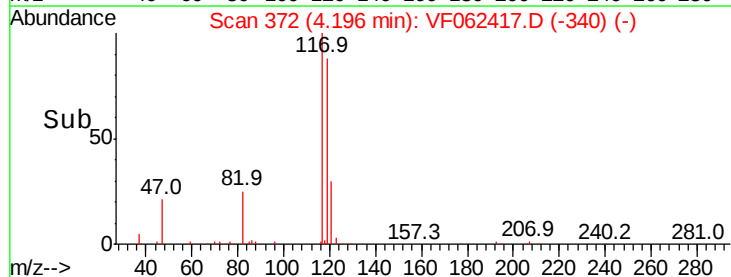
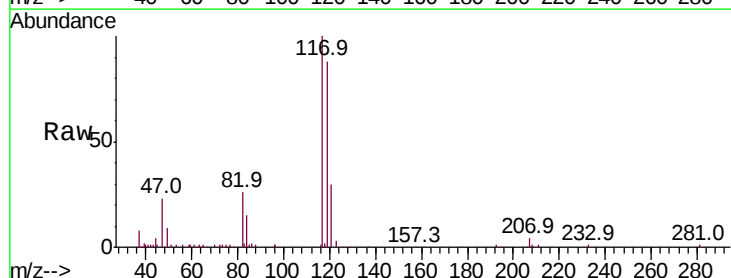
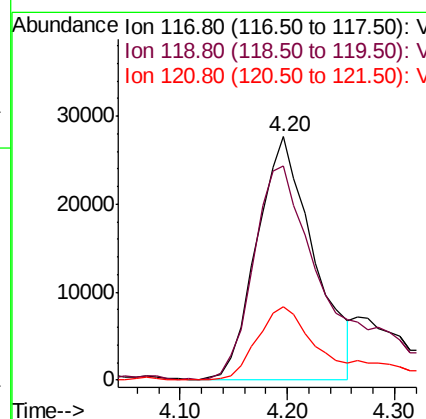
Manual Integrations
APPROVED

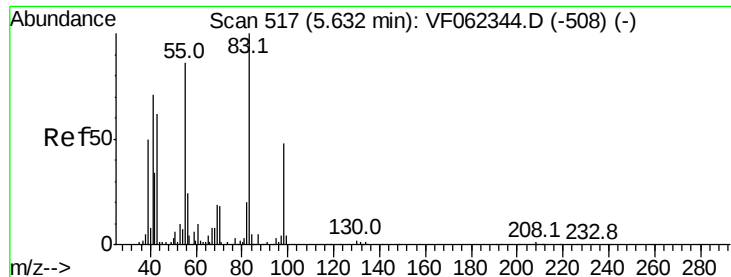
MMDadoda
5/11/2019 3:54:10 PM



#38
Carbon Tetrachloride
Concen: 25.152 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.0	73.4	110.2
121	30.1	27.4	41.0





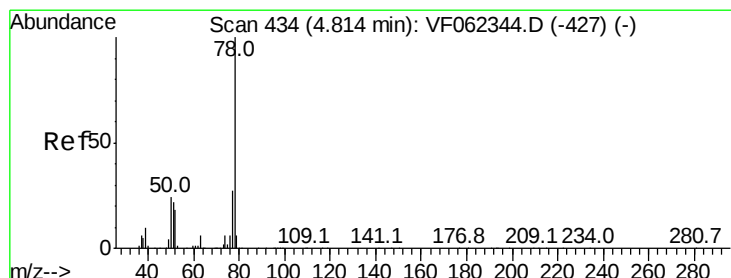
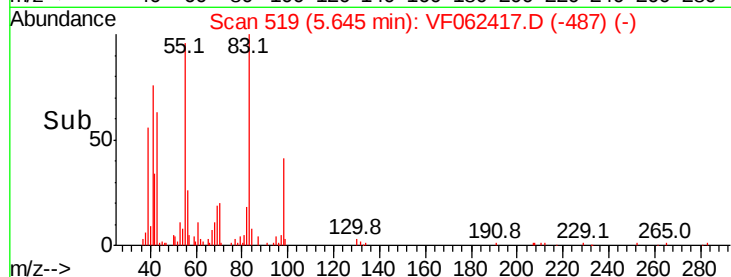
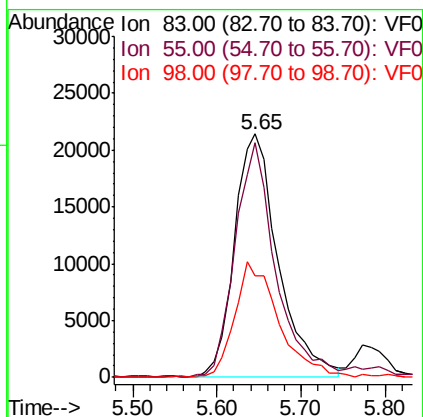
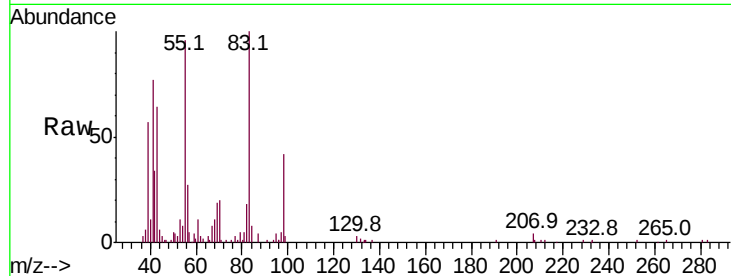
#39
Methvlcvclohexane
Concen: 20.896 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	96.4	69.0	103.6
98	41.7	38.6	58.0

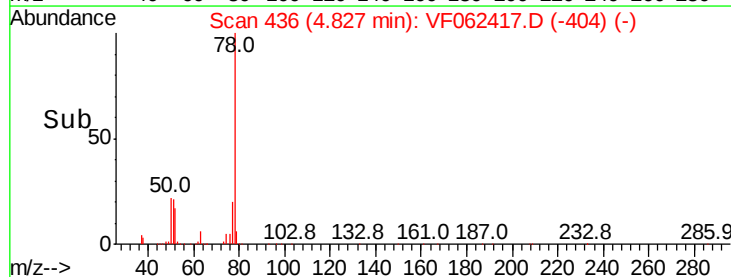
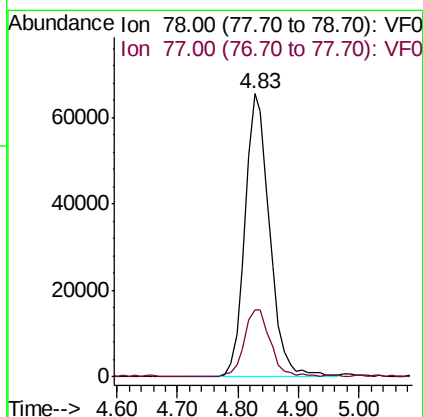
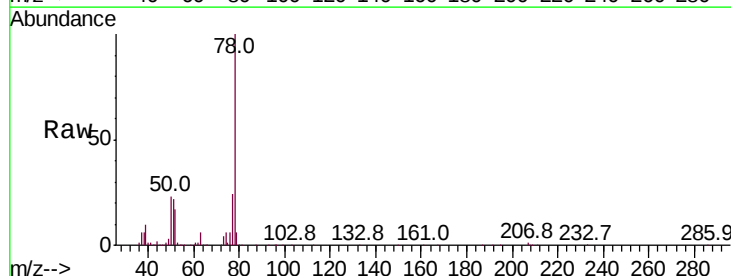
Manual Integrations
APPROVED

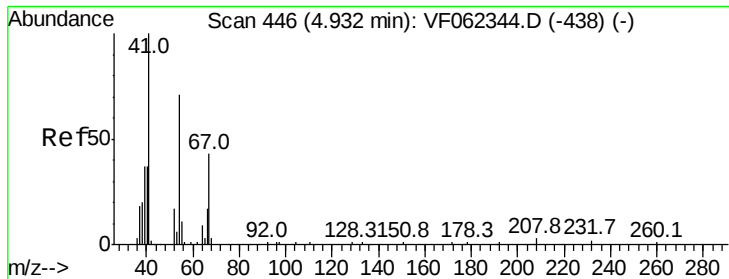
MMDadoda
5/11/2019 3:54:10 PM



#40
Benzene
Concen: 22.598 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	21.6	32.4





#41

Methacrylonitrile

Concen: 19.695 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

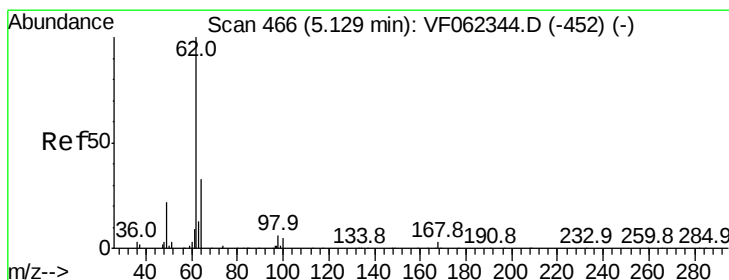
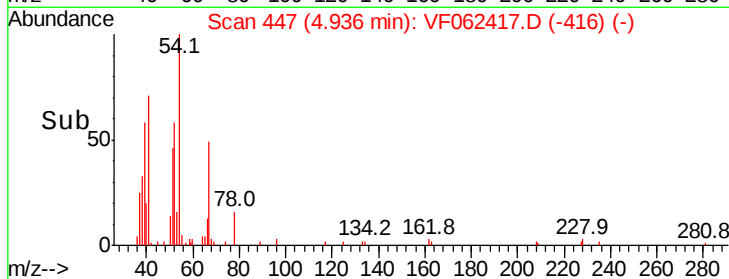
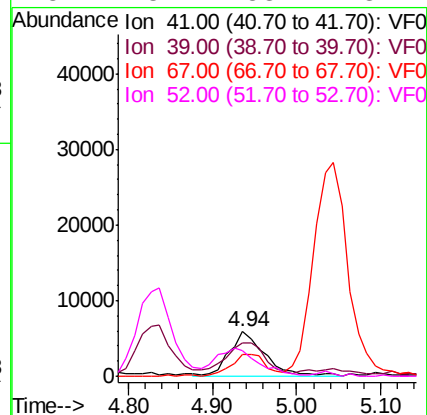
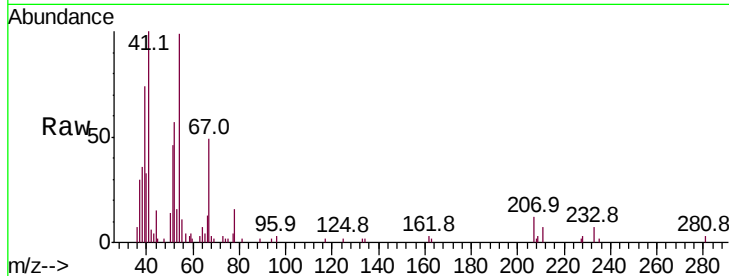
ClientSampleId :

VF0510SBS01

Tot Ion	41	Resp	17573
Ion	Ratio	Lower	Upper
41	100		
39	76.3	54.3	81.5
67	48.5	37.8	56.8
52	73.1	58.2	87.4

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#42

1,2-Dichloroethane

Concen: 22.289 ug/l

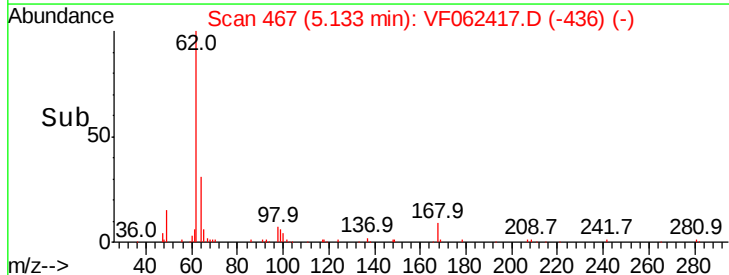
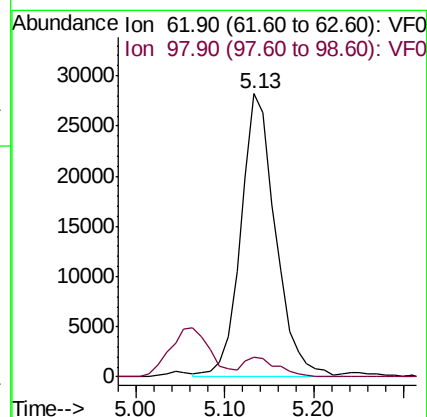
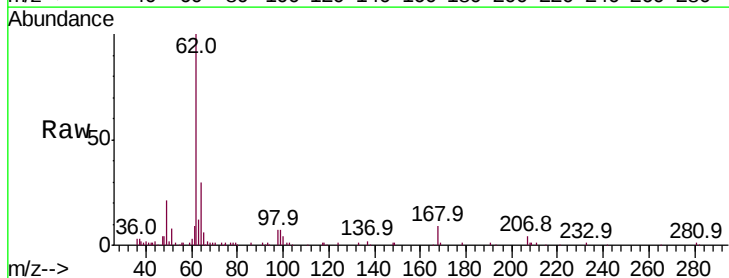
RT: 5.13 min Scan# 467

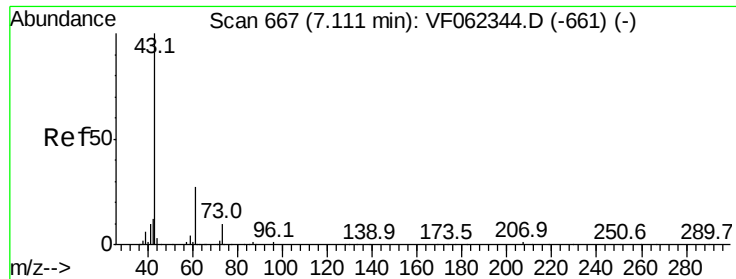
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion	62	Resp	76385
Ion	Ratio	Lower	Upper
62	100		
98	6.7	0.0	12.4





#43

Isopropyl Acetate

Concen: 21.402 ug/l

RT: 7.12 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

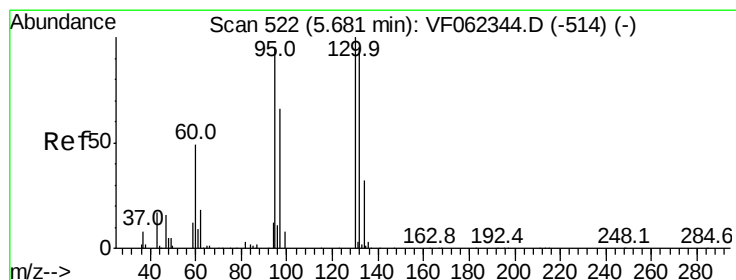
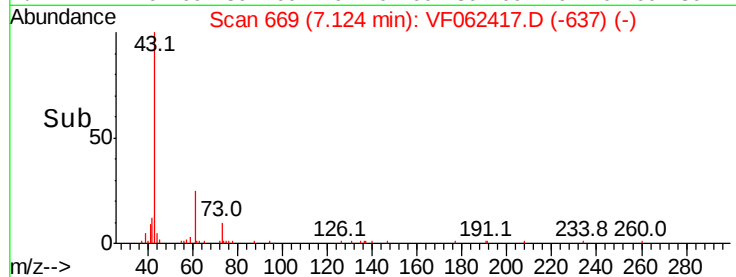
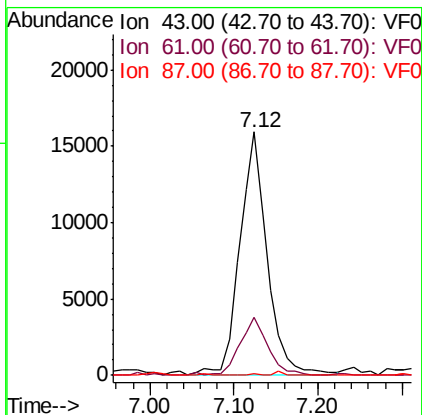
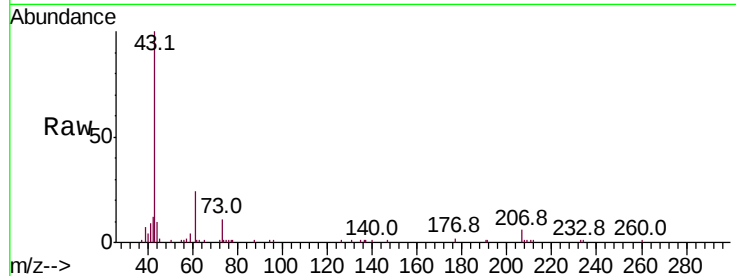
ClientSampleId :

VF0510SBS01

Tot Ion:	43	Resp:	36224
Ion Ratio	Lower	Upper	
43	100		
61	24.2	22.8	34.2
87	0.2	0.6	1.0#

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#44

Trichloroethene

Concen: 22.066 ug/l

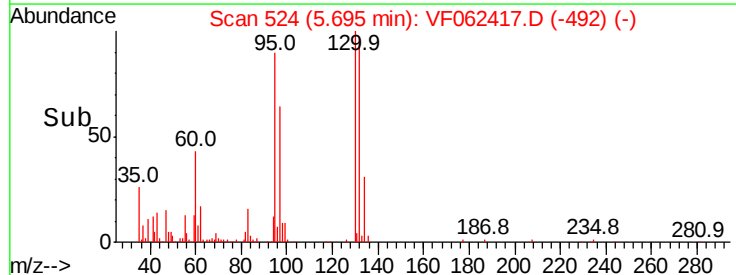
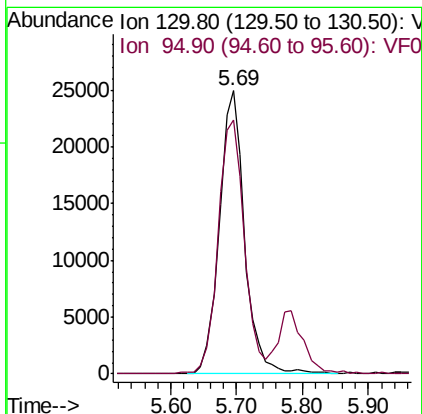
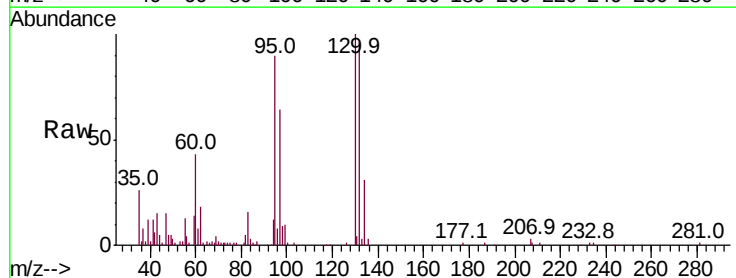
RT: 5.69 min Scan# 524

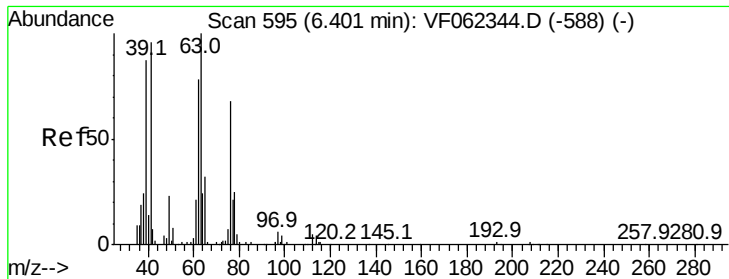
Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	130	Resp:	66422
Ion Ratio	Lower	Upper	
130	100		
95	89.1	0.0	189.0





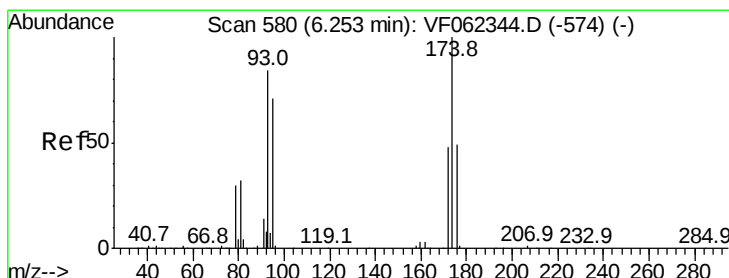
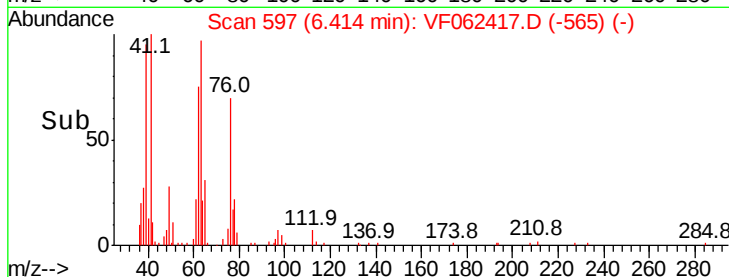
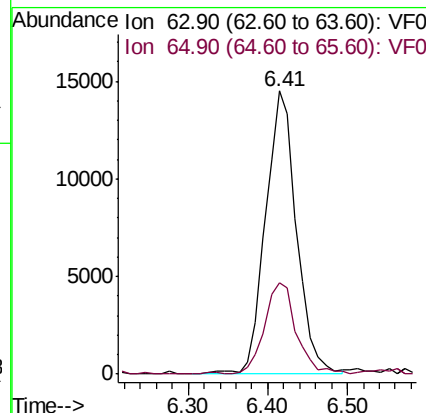
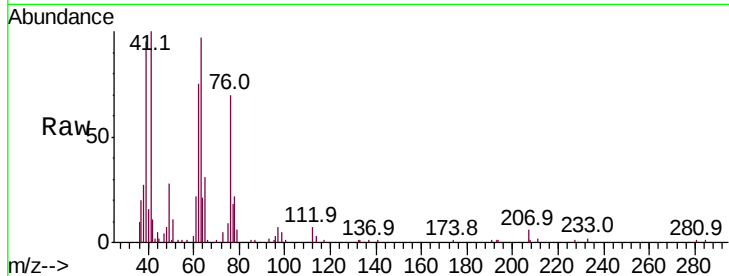
#45
1,2-Dichloropropane
Concen: 21.024 ug/l
RT: 6.41 min Scan# 597
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion: 63 Resp: 39021
Ion Ratio Lower Upper
63 100
65 32.3 25.6 38.4

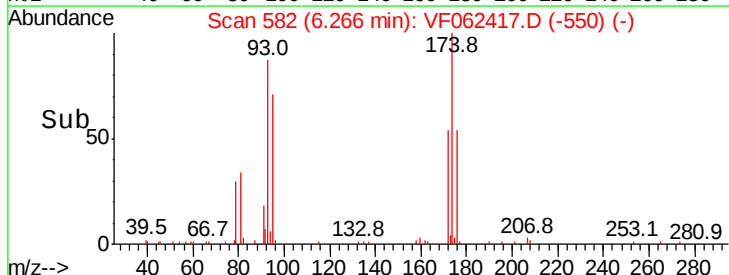
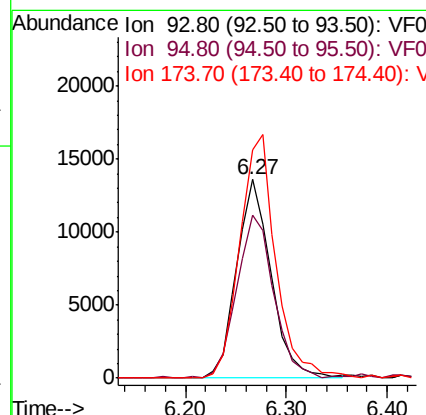
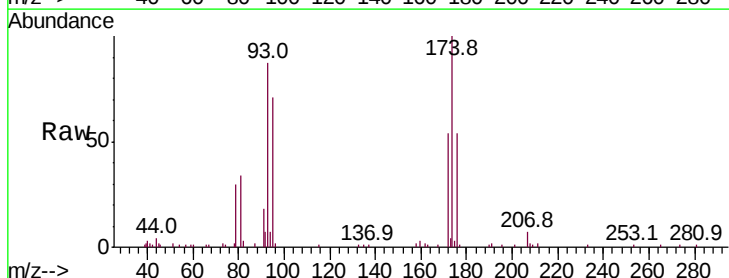
Manual Integrations
APPROVED

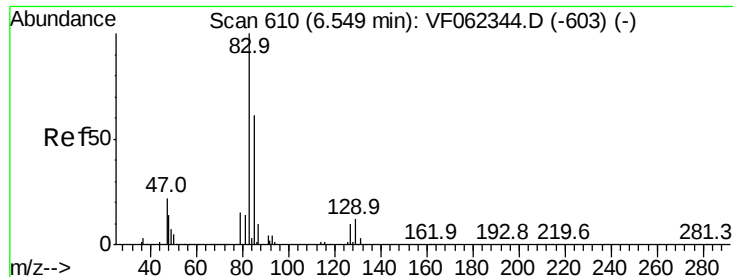
MMDadoda
5/11/2019 3:54:10 PM



#46
Dibromomethane
Concen: 21.064 ug/l
RT: 6.27 min Scan# 582
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion: 93 Resp: 32415
Ion Ratio Lower Upper
93 100
95 88.1 68.4 102.6
174 128.0 99.6 149.4





#47

Bromodichloromethane

Concen: 22.514 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

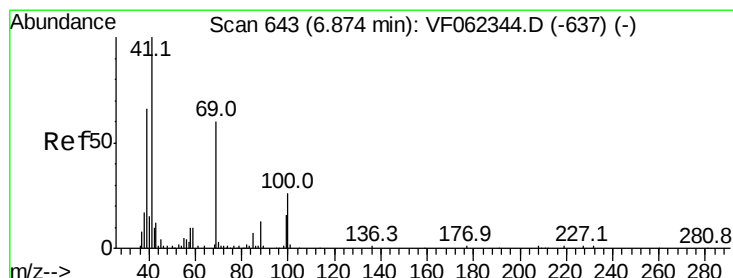
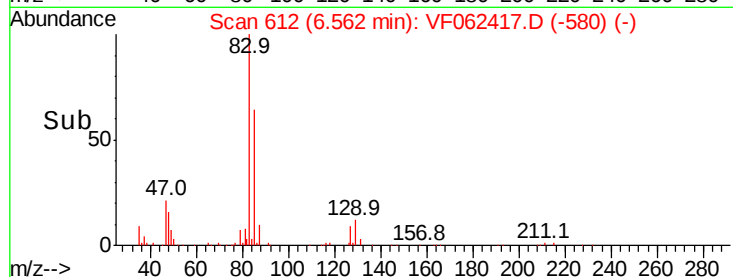
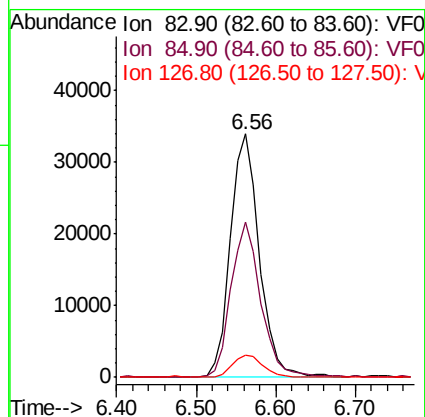
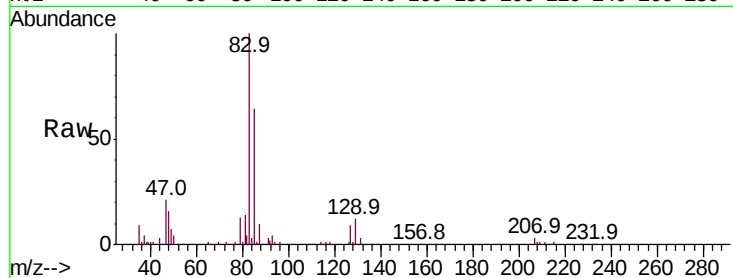
ClientSampleId :

VF0510SBS01

Tot Ion:	83	Resp:	86620
Ion Ratio	Lower	Upper	
83	100		
85	63.8	49.1	73.7
127	9.4	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#48

Methyl methacrylate

Concen: 20.359 ug/l

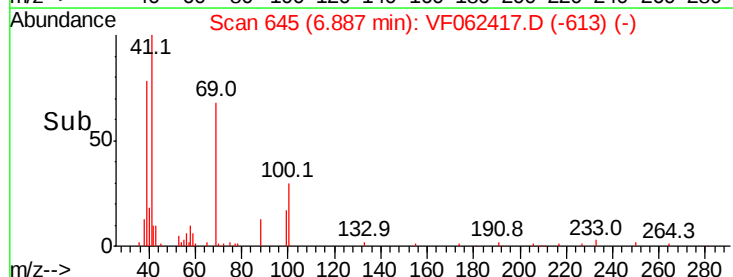
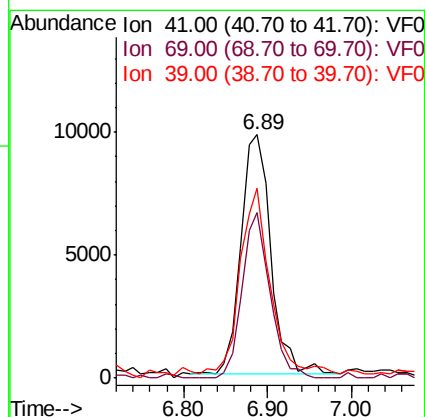
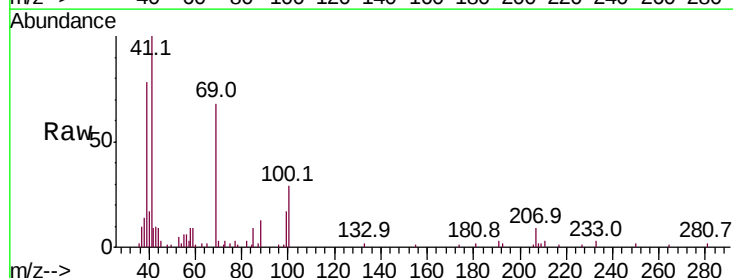
RT: 6.89 min Scan# 645

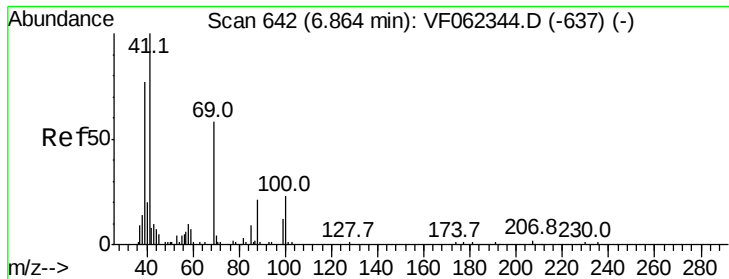
Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	41	Resp:	24352
Ion Ratio	Lower	Upper	
41	100		
69	63.7	48.6	72.8
39	74.9	56.1	84.1





#49

1,4-Dioxane

Concen: 462.175 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

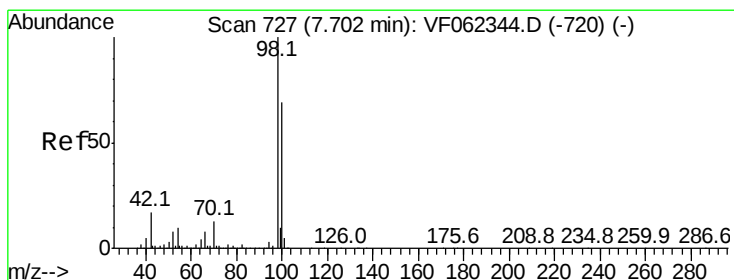
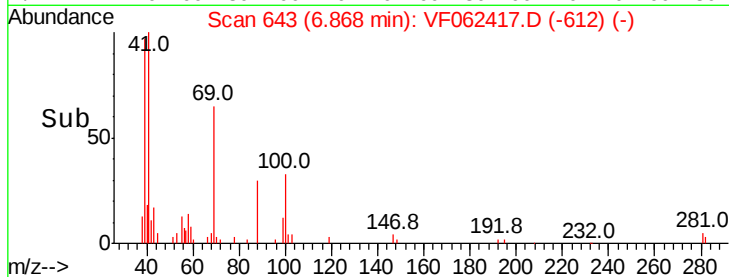
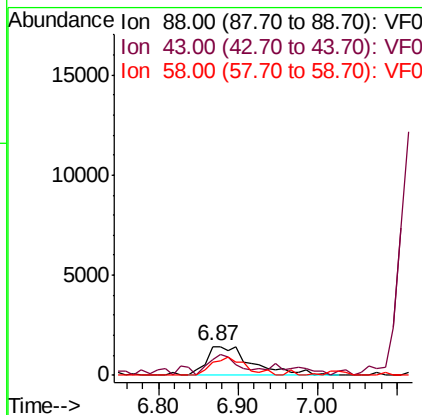
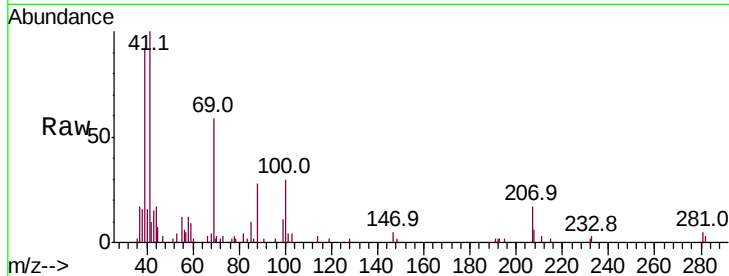
ClientSampleId :

VF0510SBS01

Tot Ion:	88	Resp:	5772
Ion	Ratio	Lower	Upper
88	100		
43	45.3	55.6	83.4#
58	45.7	52.8	79.2#

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#50

Toluene-d8

Concen: 56.020 ug/l

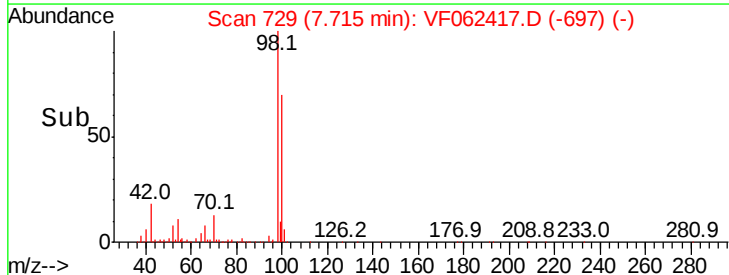
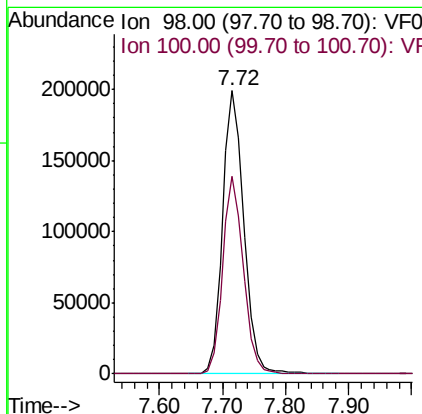
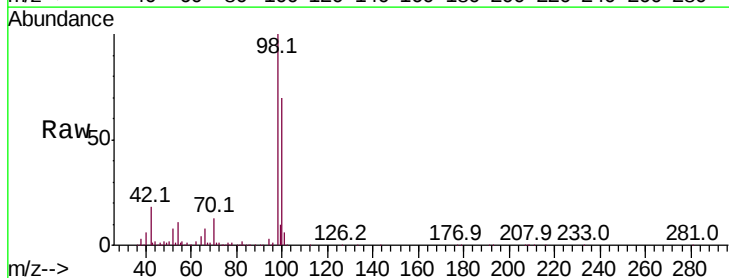
RT: 7.72 min Scan# 729

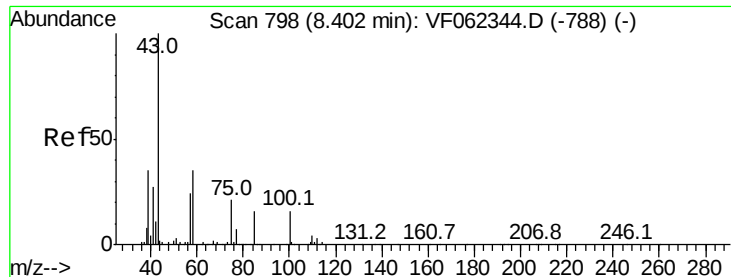
Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	98	Resp:	467974
Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 100.579 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 43 Resp: 128994

Ion Ratio Lower Upper

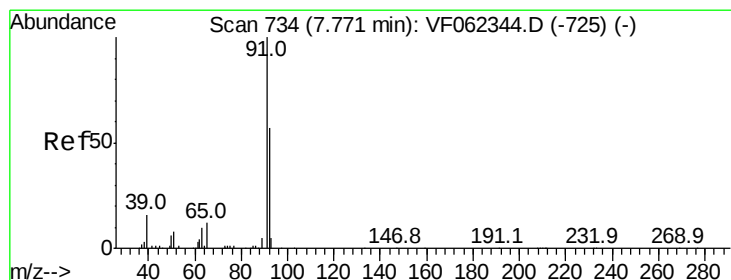
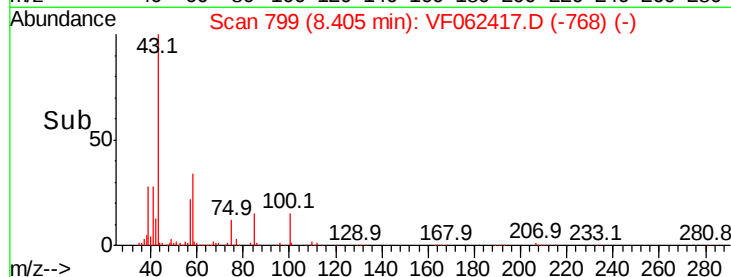
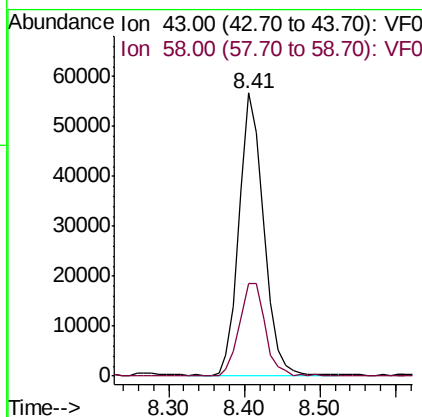
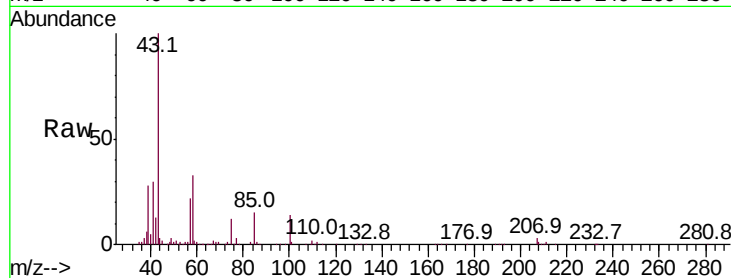
43 100

58 34.3 27.8 41.6

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#52

Toluene

Concen: 22.294 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF062417.D

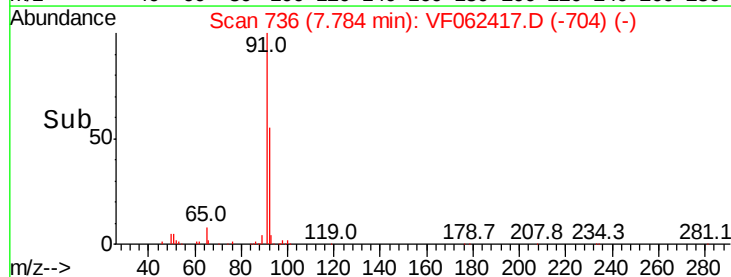
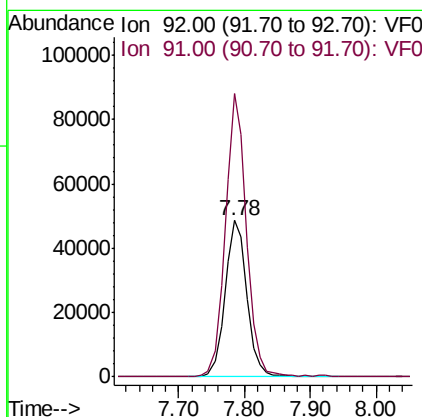
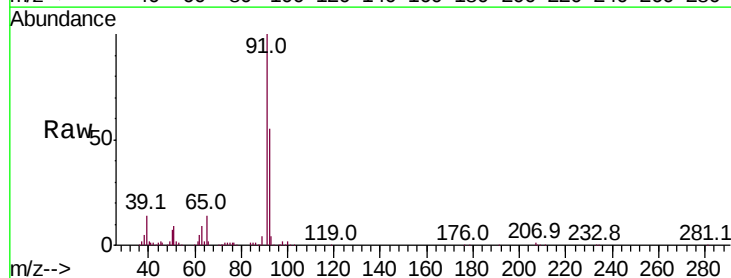
Acq: 10 May 2019 12:19

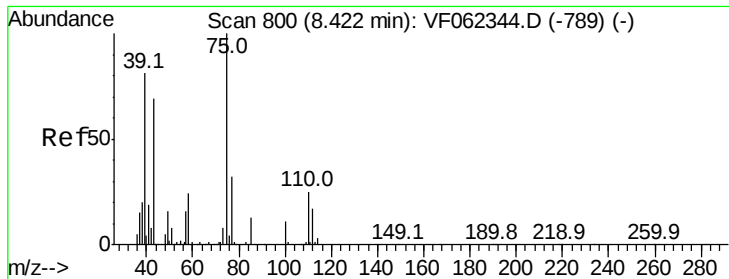
Tgt Ion: 92 Resp: 112697

Ion Ratio Lower Upper

92 100

91 174.5 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 22.839 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 75 Resp: 66459

Ion Ratio Lower Upper

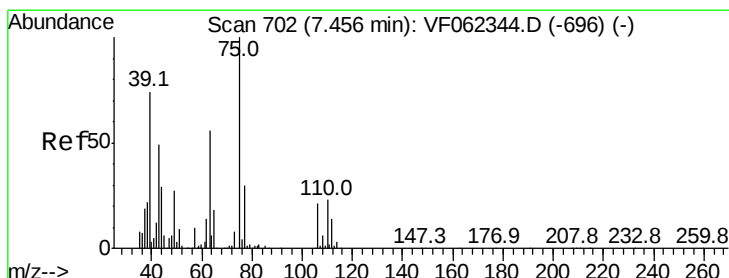
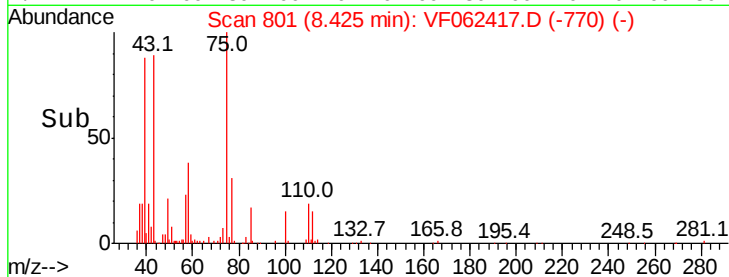
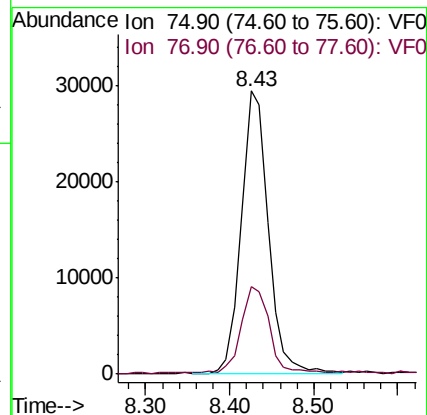
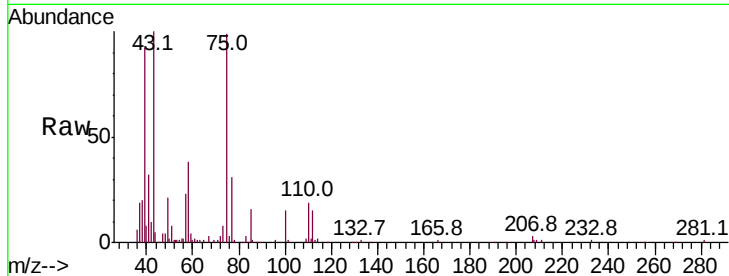
75 100

77 30.5 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#54

cis-1,3-Dichloropropene

Concen: 22.332 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

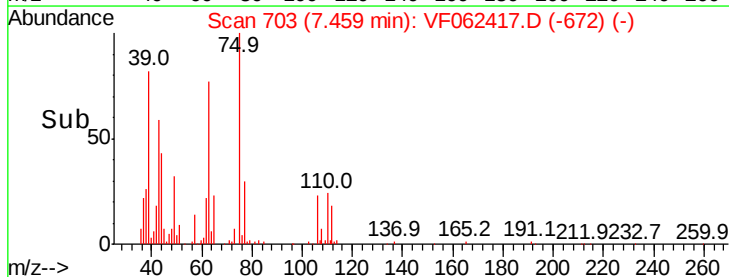
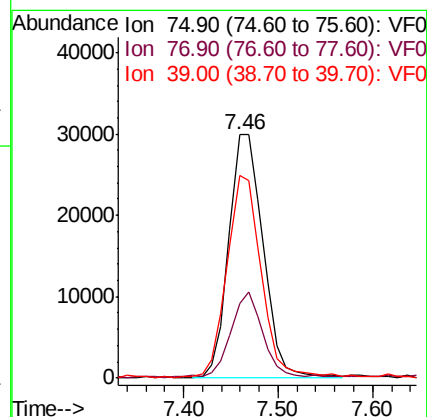
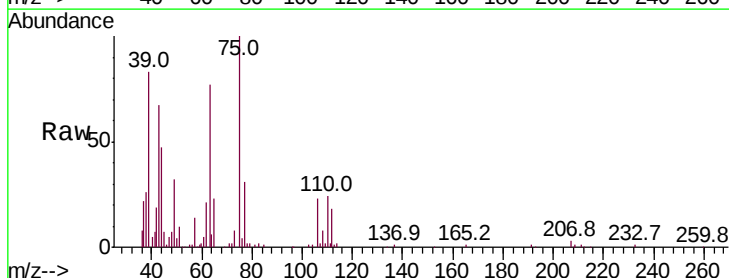
Tgt Ion: 75 Resp: 75629

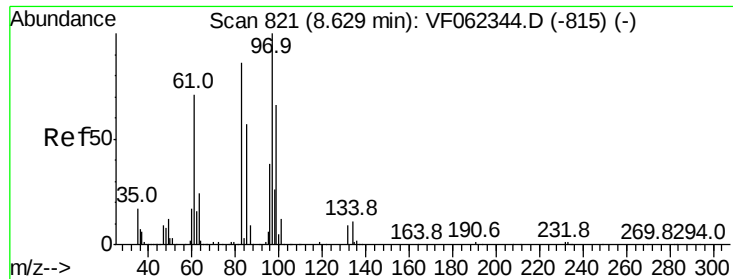
Ion Ratio Lower Upper

75 100

77 30.1 24.0 36.0

39 82.2 58.7 88.1





#55

1,1,2-Trichloroethane

Concen: 20.724 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

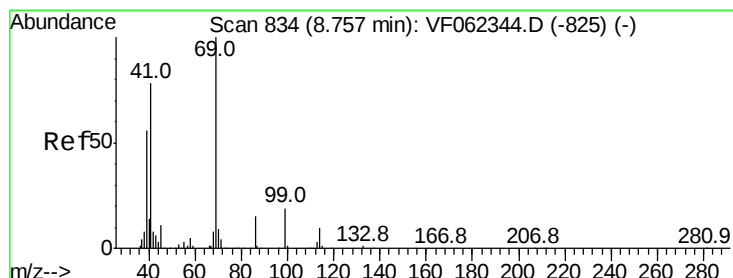
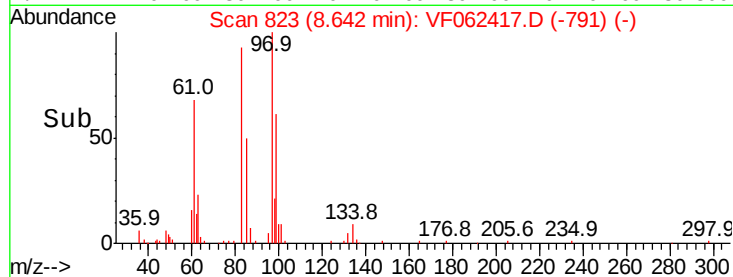
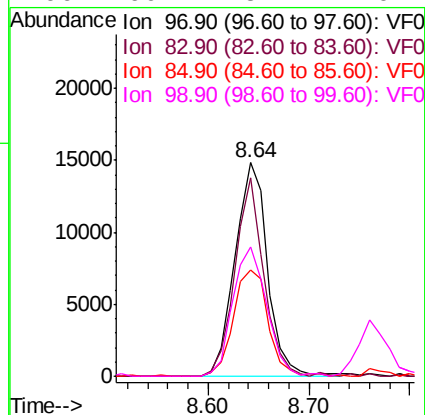
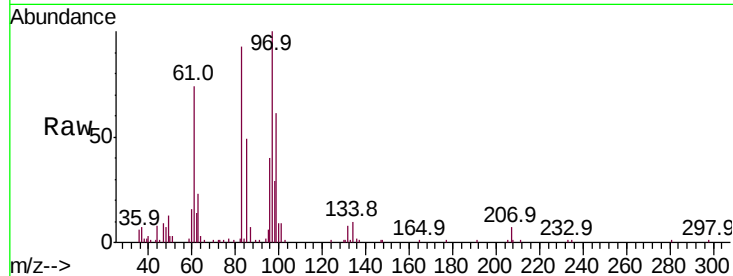
ClientSampleId :

VF0510SBS01

Tot Ion:	97	Resp:	33257
Ion Ratio	Lower	Upper	
97	100		
83	93.1	68.5	102.7
85	49.5	45.4	68.2
99	60.7	52.7	79.1

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#56

Ethyl methacrylate

Concen: 19.153 ug/l

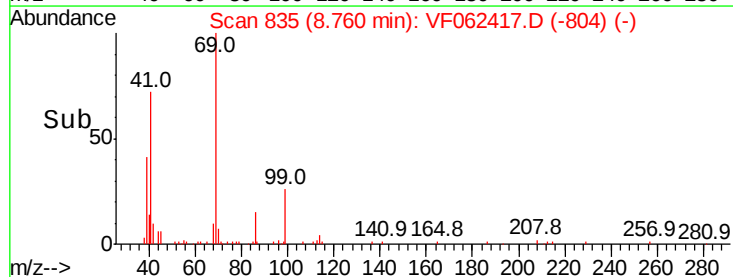
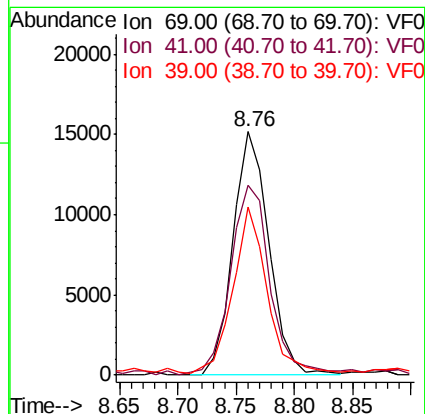
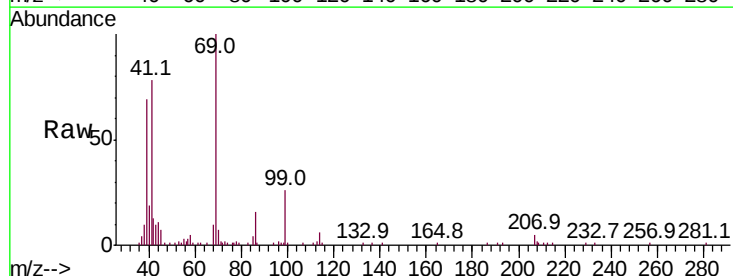
RT: 8.76 min Scan# 835

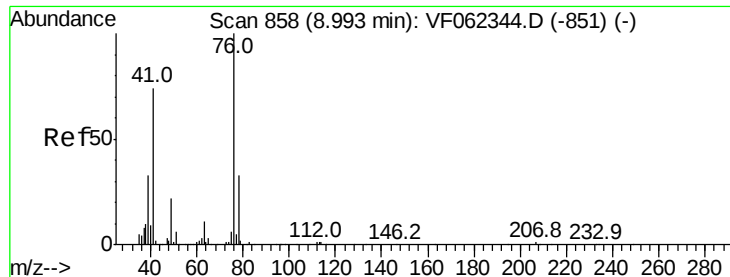
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	69	Resp:	32445
Ion Ratio	Lower	Upper	
69	100		
41	86.4	66.3	99.5
39	64.1	50.1	75.1





#57

1,3-Dichloropropane

Concen: 20.574 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 76 Resp: 49871

Ion Ratio Lower Upper

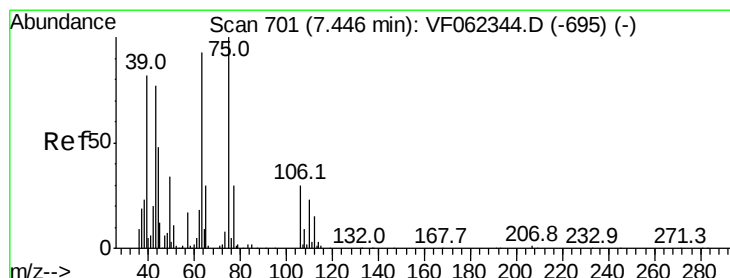
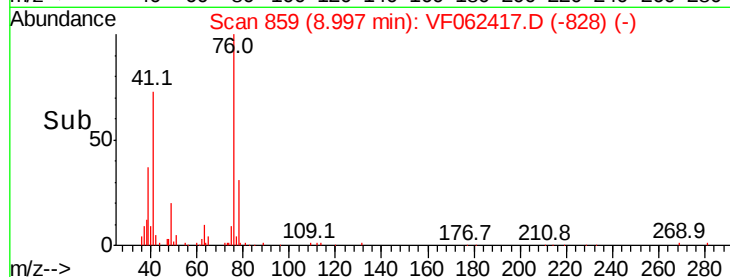
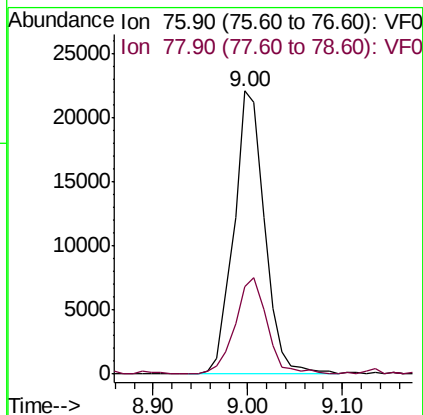
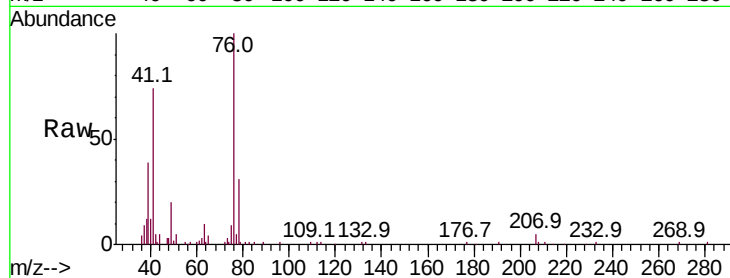
76 100

78 35.4 26.4 39.6

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



#58

2-Chloroethyl Vinyl ether

Concen: 102.371 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF062417.D

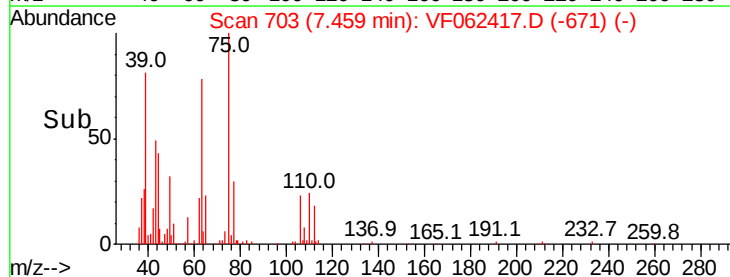
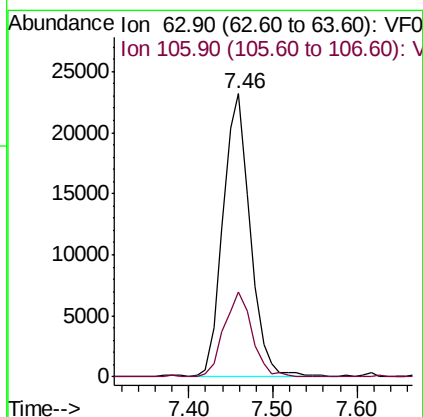
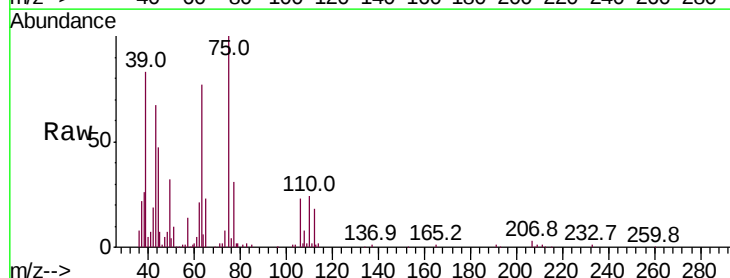
Acq: 10 May 2019 12:19

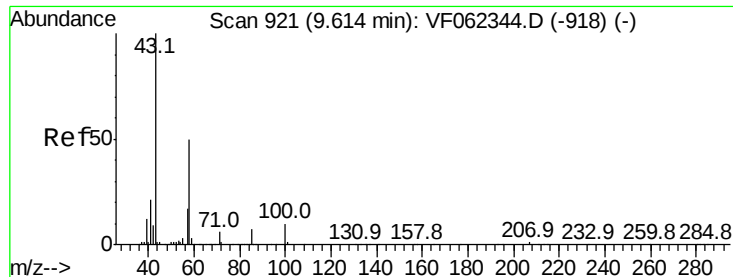
Tgt Ion: 63 Resp: 52135

Ion Ratio Lower Upper

63 100

106 30.6 25.8 38.8





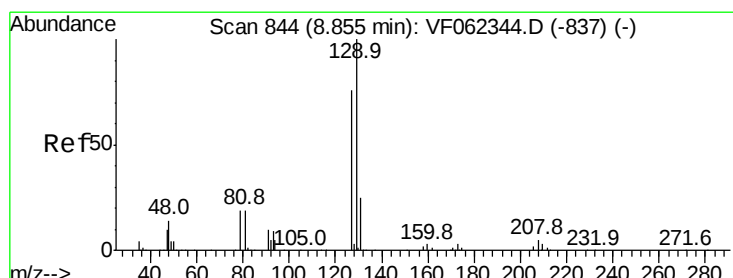
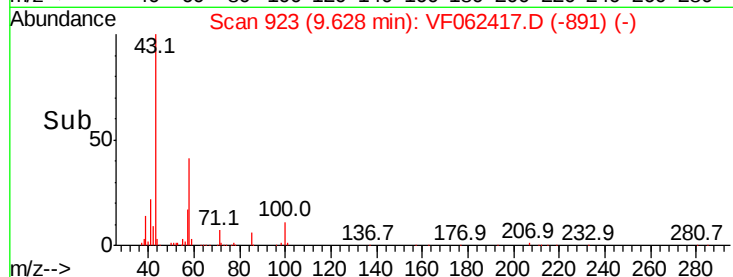
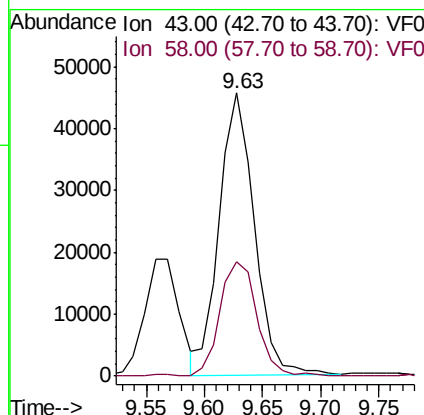
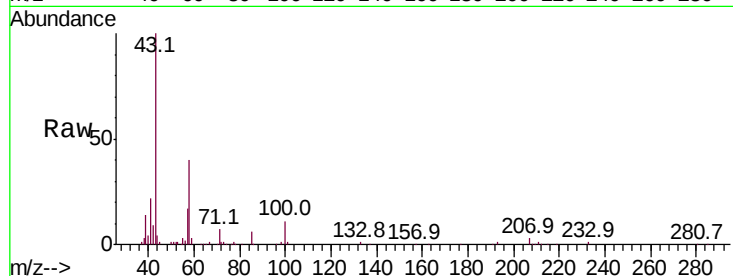
#59
2-Hexanone
Concen: 107.480 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.4	24.3	73.0

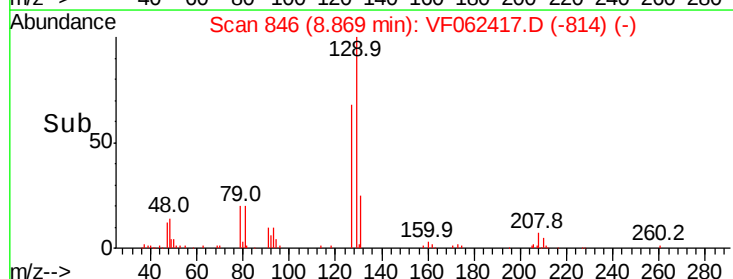
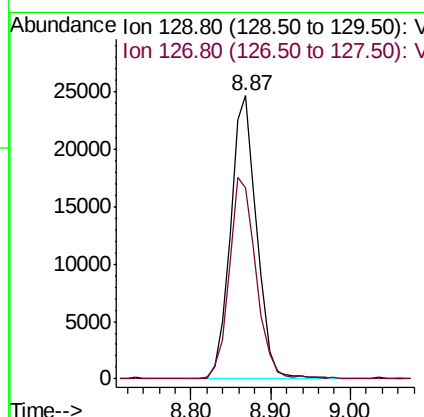
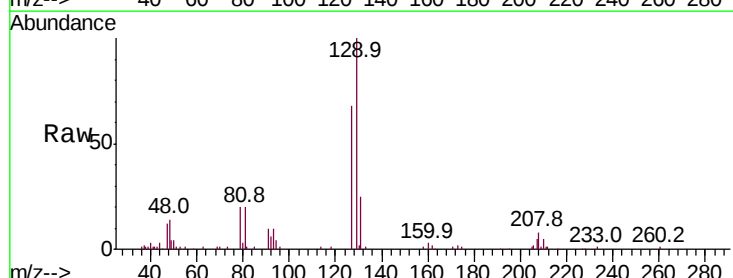
Manual Integrations
APPROVED

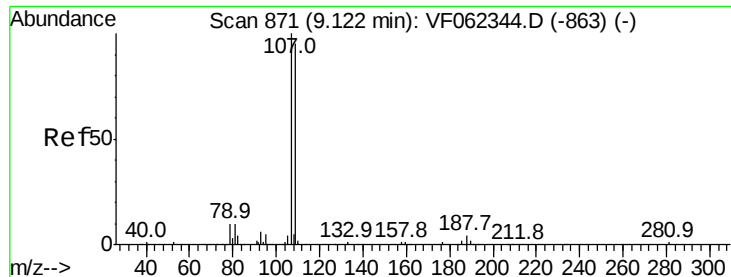
MMDadoda
5/11/2019 3:54:10 PM



#60
Dibromochloromethane
Concen: 21.519 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.1	38.5	115.3





#61

1,2-Dibromoethane

Concen: 20.391 ug/l

RT: 9.13 min Scan# 873

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion:107 Resp: 38458

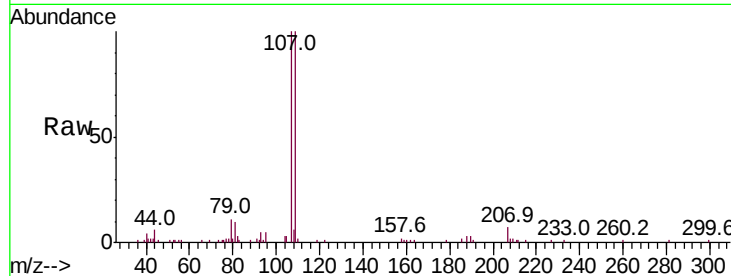
Ion Ratio Lower Upper

107 100

109 98.6 75.2 112.8

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

20000

15000

10000

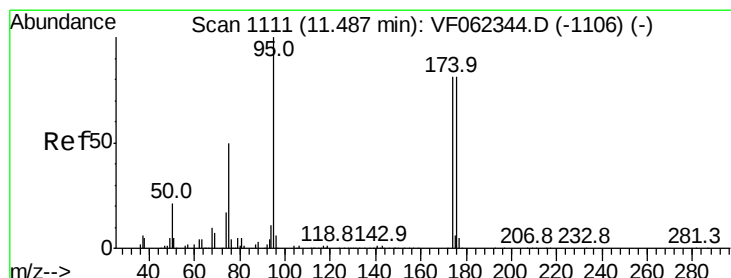
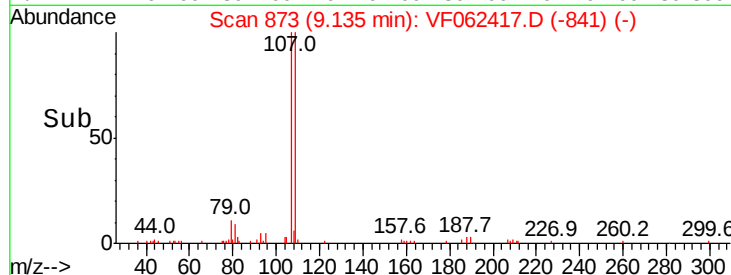
5000

0

Time-->

9.05 9.10 9.15 9.20

9.13



#62

4-Bromofluorobenzene

Concen: 57.151 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

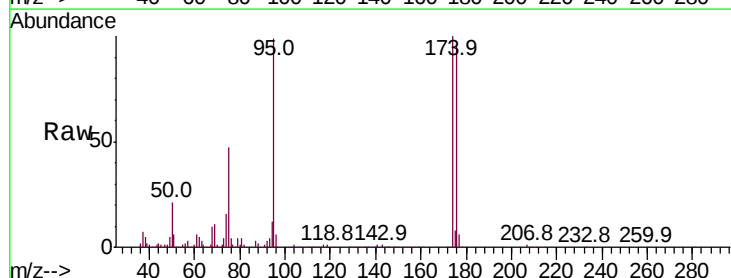
Tgt Ion: 95 Resp: 215397

Ion Ratio Lower Upper

95 100

174 97.5 0.0 191.8

176 94.0 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

100000

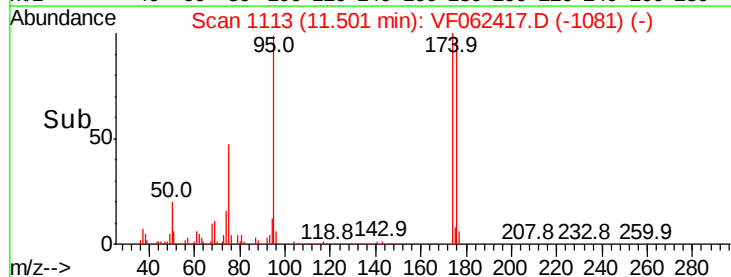
50000

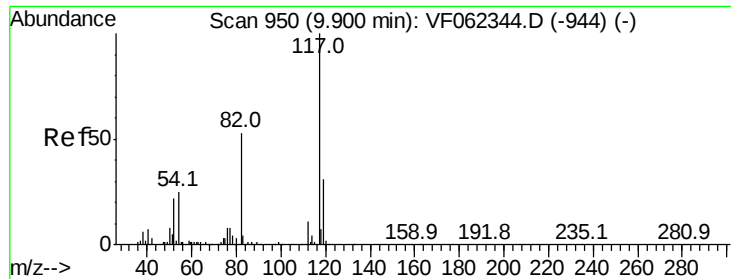
0

Time-->

11.40 11.50 11.60 11.70

11.50





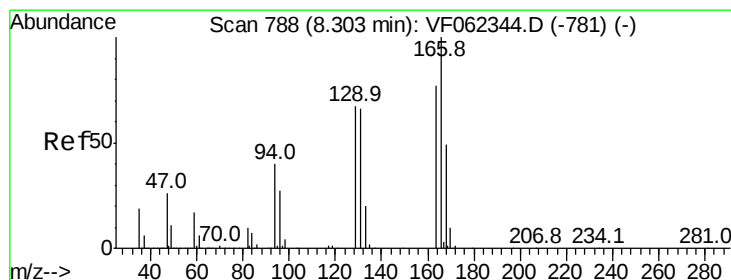
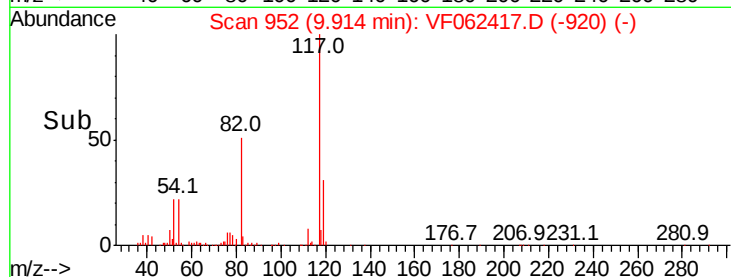
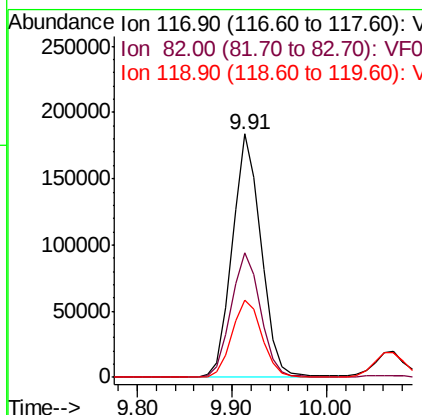
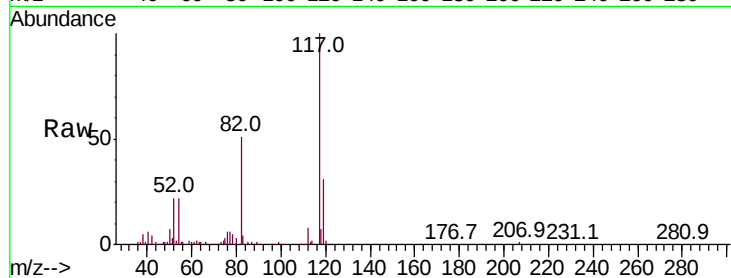
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	387247		
82	51.1	42.2	63.2	
119	31.5	25.0	37.4	

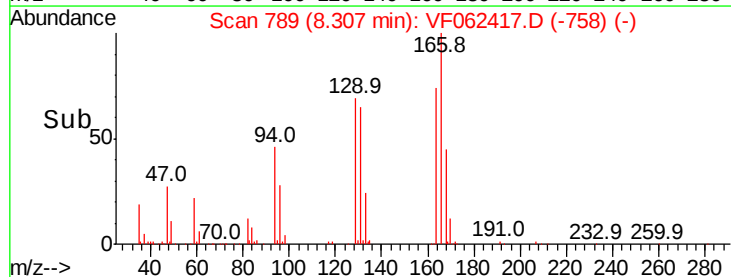
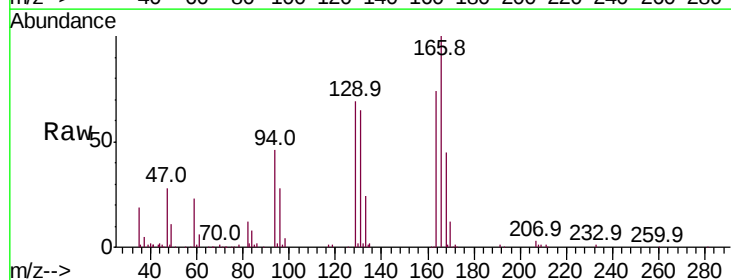
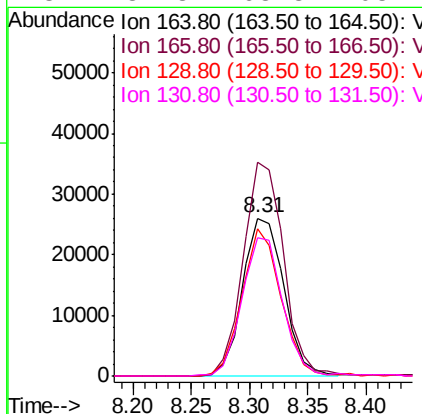
Manual Integrations
APPROVED

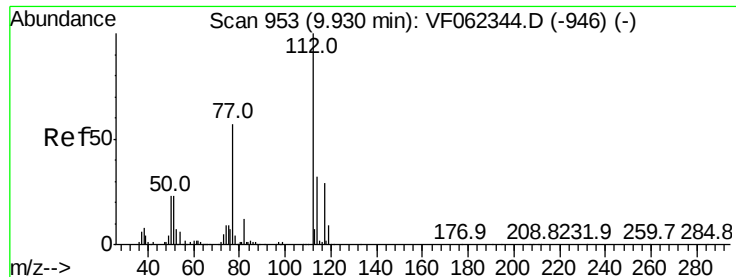
MMDadoda
5/11/2019 3:54:10 PM



#64
Tetrachloroethene
Concen: 20.310 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	63849		
166	135.1	104.2	156.4	
129	92.9	69.6	104.4	
131	87.3	68.8	103.2	





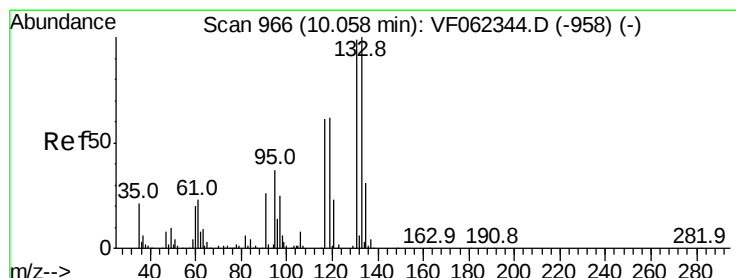
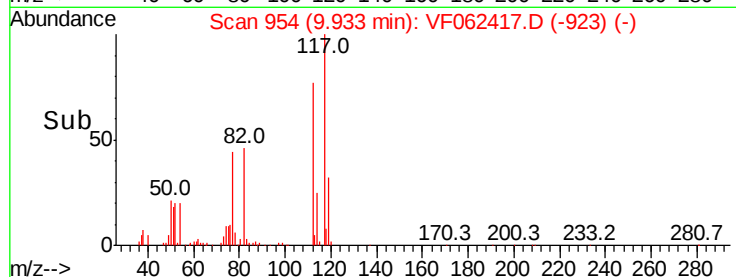
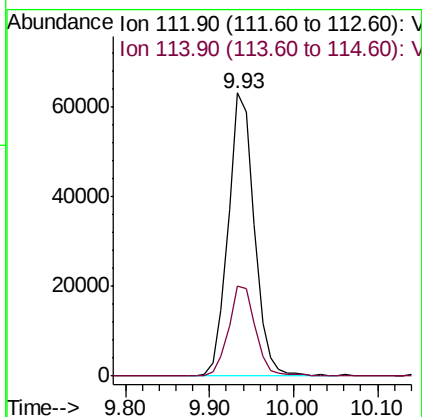
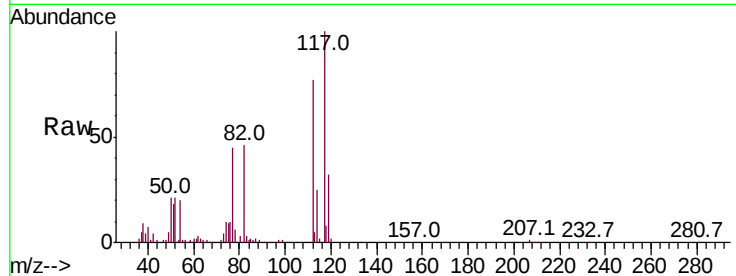
#65
Chlorobenzene
Concen: 21.307 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	136521		
114	31.8	25.4	38.0	

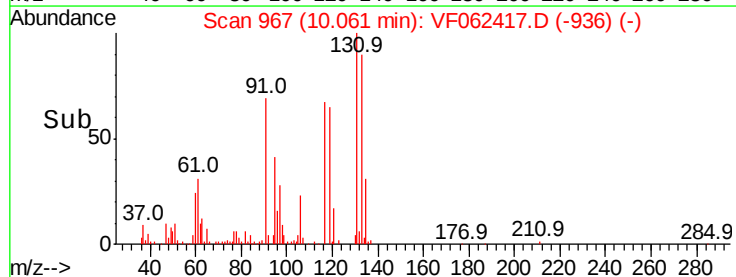
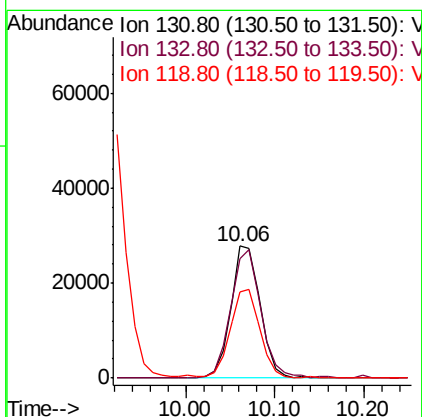
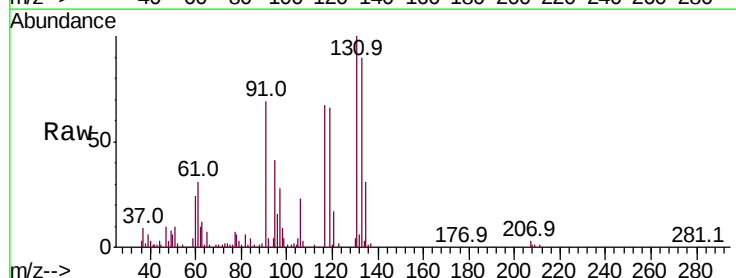
Manual Integrations
APPROVED

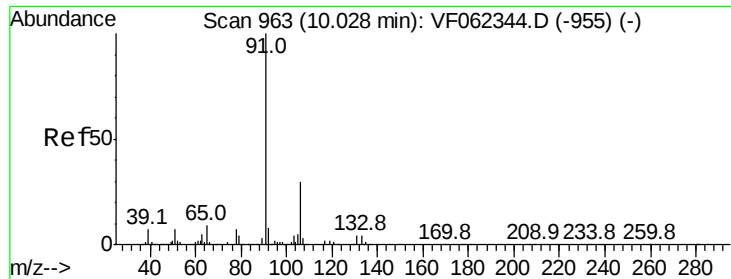
MMDadoda
5/11/2019 3:54:10 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.862 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	64200		
133	100.3	50.2	150.7	
119	68.0	31.6	95.0	





#67

Ethyl Benzene

Concen: 20.901 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 91 Resp: 234497

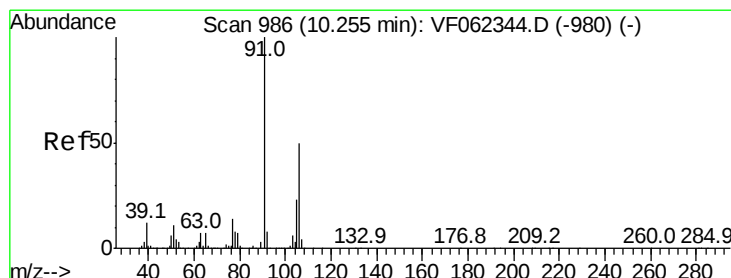
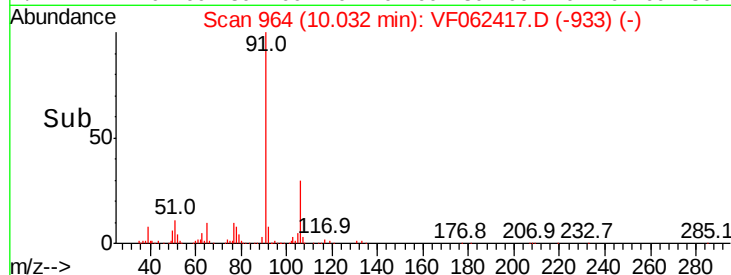
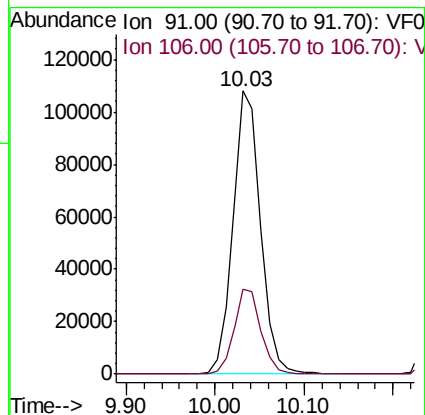
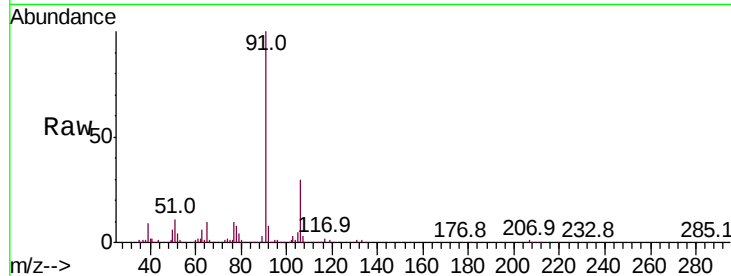
Ion Ratio Lower Upper

91 100

106 30.2 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#68

m/p-Xylenes

Concen: 42.244 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.00 min

Lab File: VF062417.D

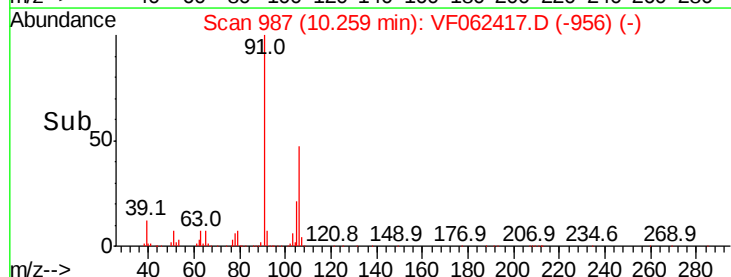
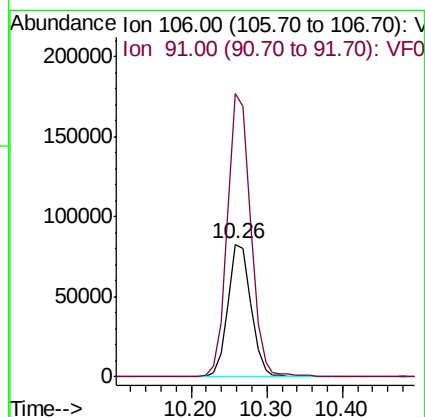
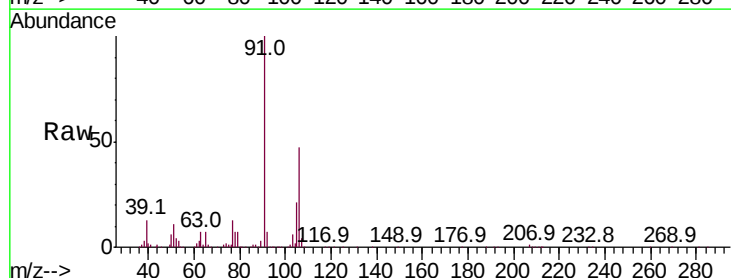
Acq: 10 May 2019 12:19

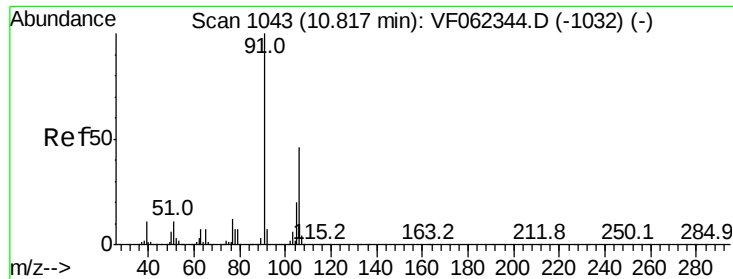
Tgt Ion: 106 Resp: 174873

Ion Ratio Lower Upper

106 100

91 213.5 167.4 251.2





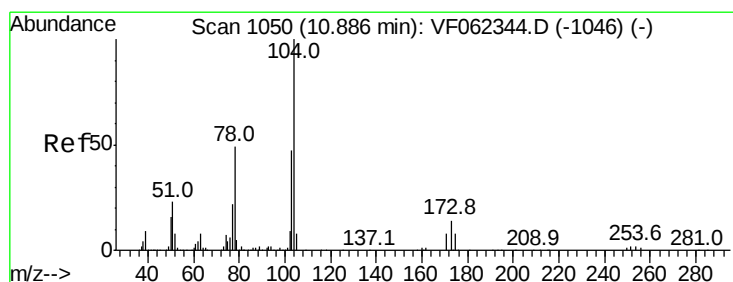
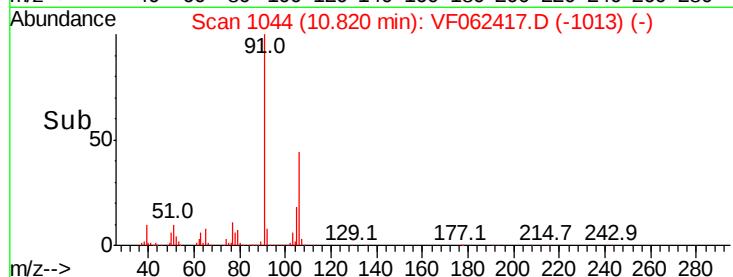
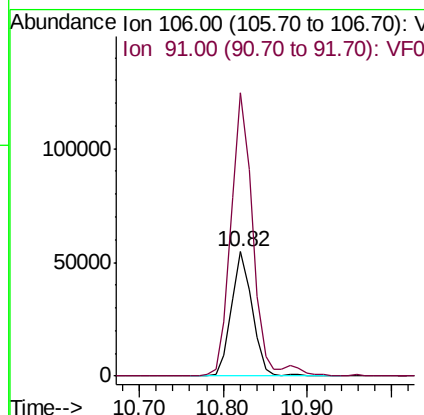
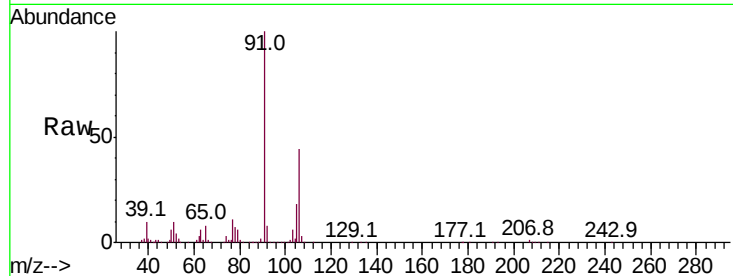
#69
o-Xylene
Concen: 21.240 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	230.7	111.3	333.8

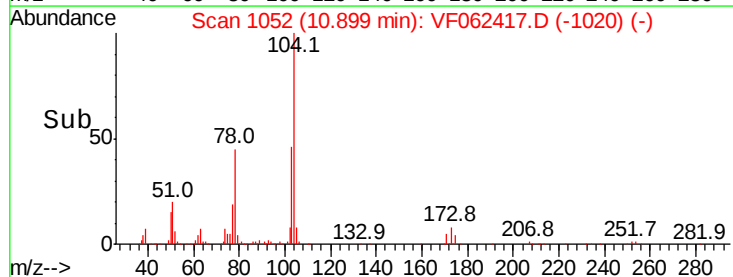
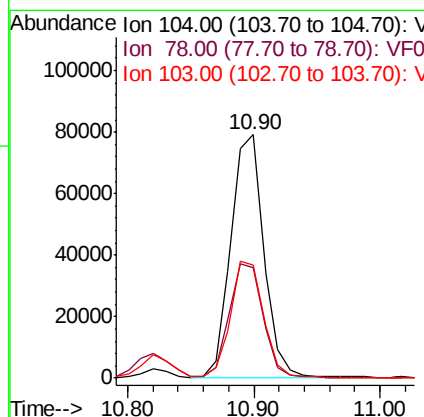
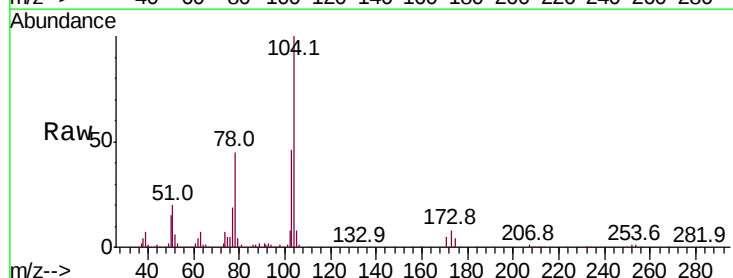
Manual Integrations
APPROVED

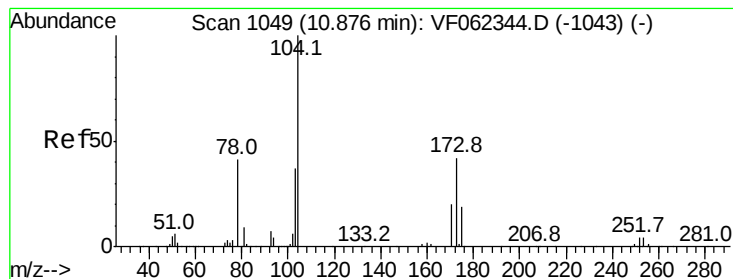
MMDadoda
5/11/2019 3:54:10 PM



#70
Styrene
Concen: 21.287 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.9	39.5	59.3
103	47.8	38.4	57.6





#71

Bromoform

Concen: 19.656 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

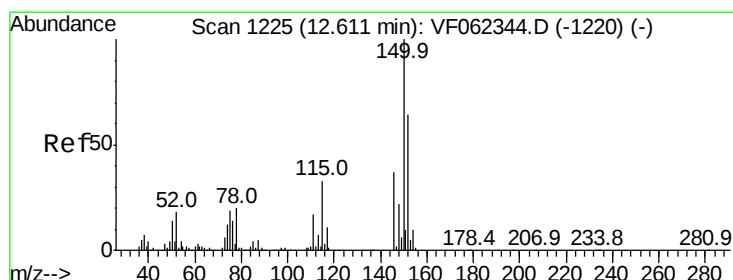
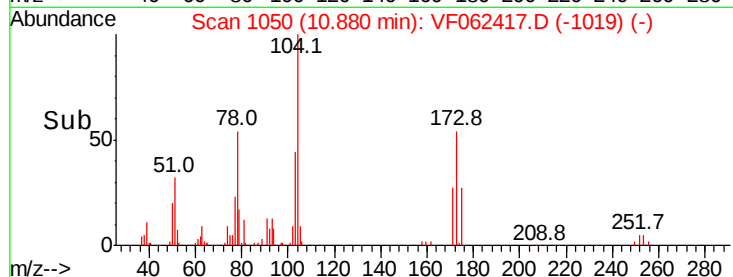
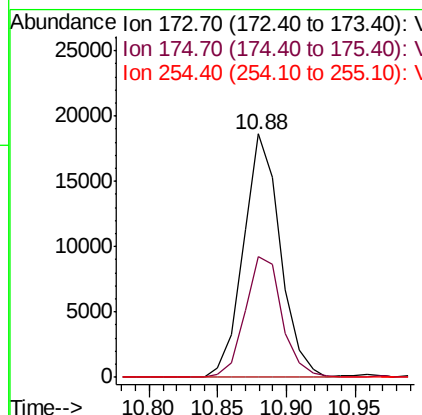
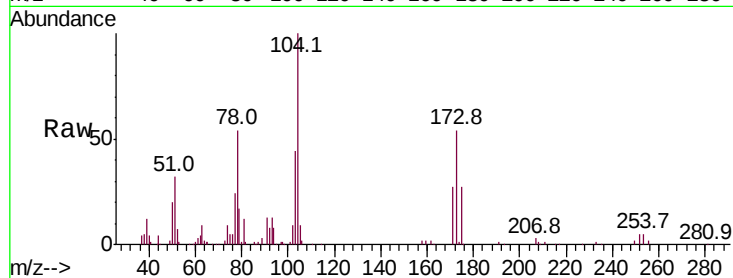
ClientSampleId :

VF0510SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.2
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

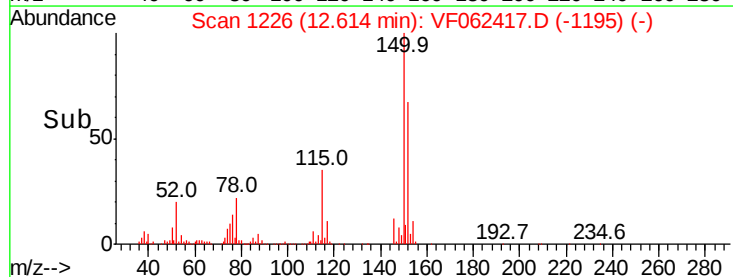
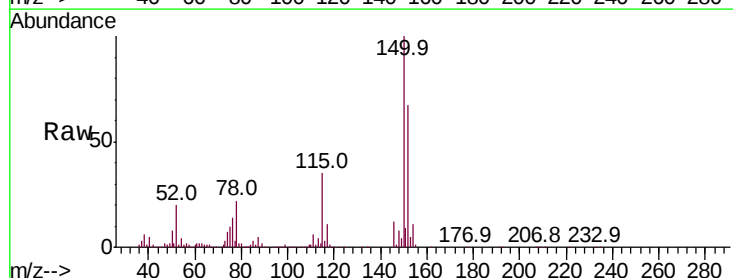
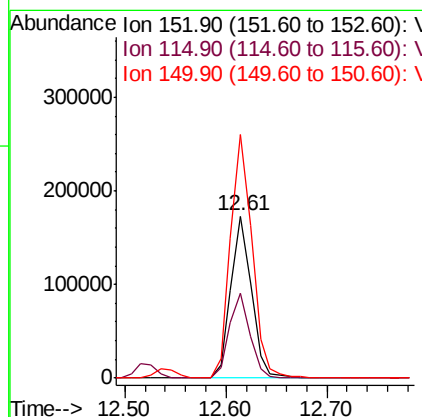
RT: 12.61 min Scan# 1226

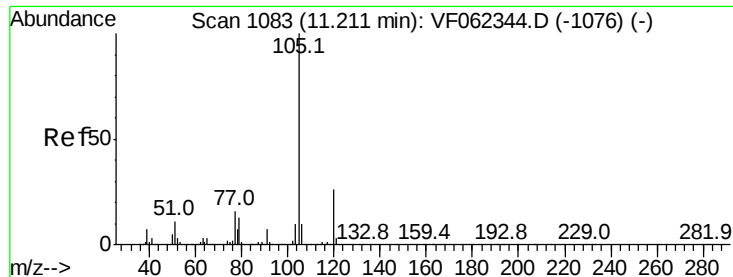
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.8	26.4	79.2
150	157.7	0.0	335.0





#73

Isopropylbenzene

Concen: 20.691 ug/l

RT: 11.21 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion:105 Resp: 302801

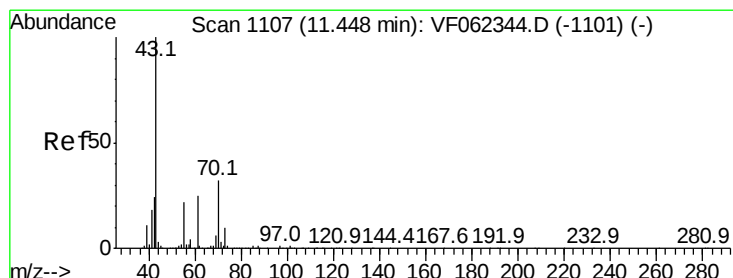
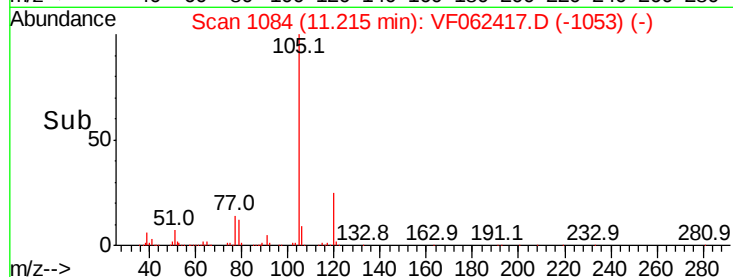
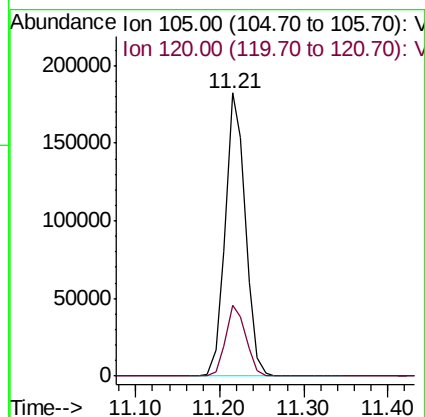
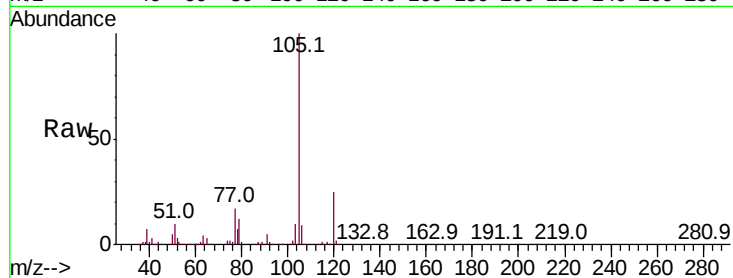
Ion Ratio Lower Upper

105 100

120 25.2 12.7 38.0

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#74

N-ethyl acetate

Concen: 18.538 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion: 43 Resp: 58244

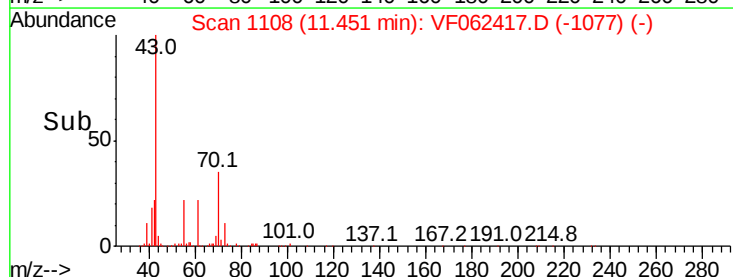
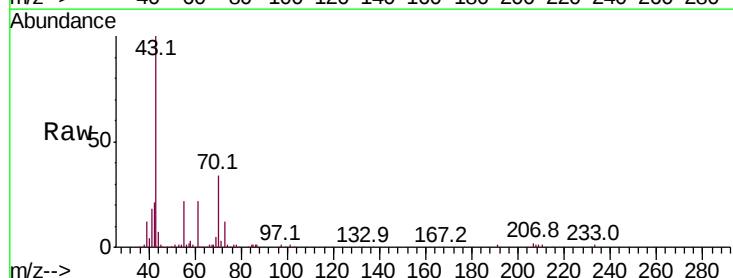
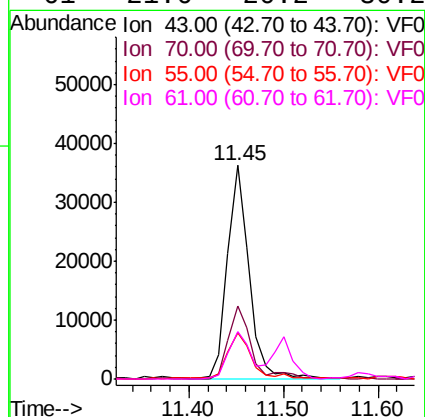
Ion Ratio Lower Upper

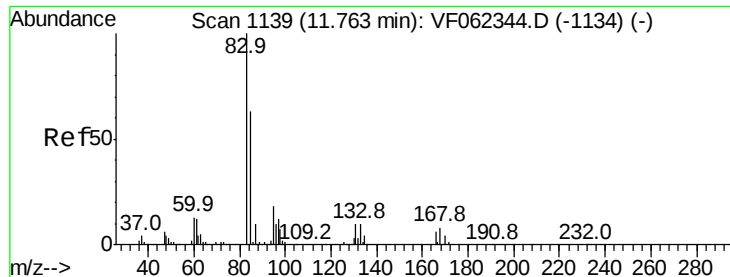
43 100

70 35.8 26.5 39.7

55 25.1 17.8 26.6

61 21.6 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.285 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

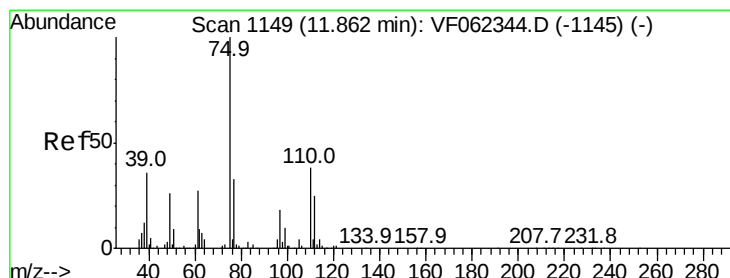
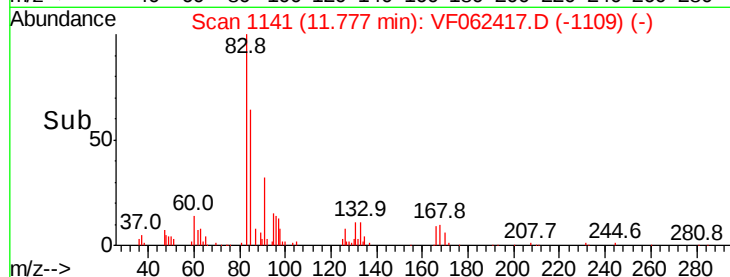
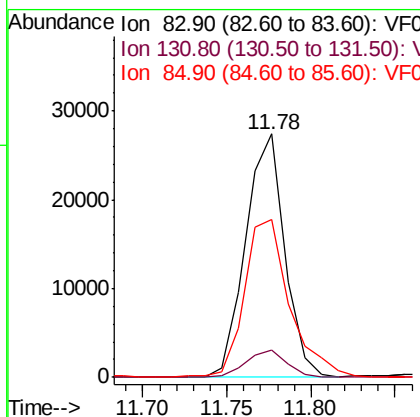
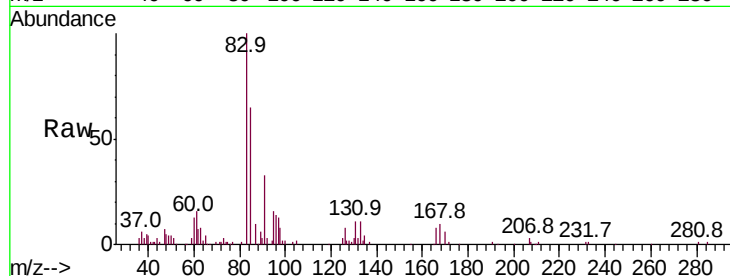
ClientSampleId :

VF0510SBS01

Tot Ion:	83	Resp:	44191
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.8	17.4
85	75.2	35.3	105.7

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#76

1,2,3-Trichloropropane

Concen: 20.559 ug/l

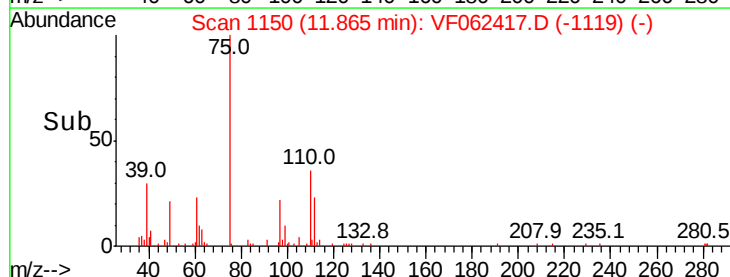
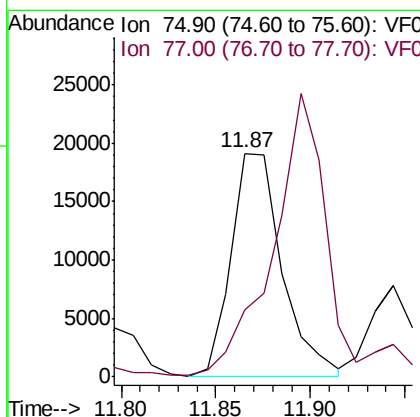
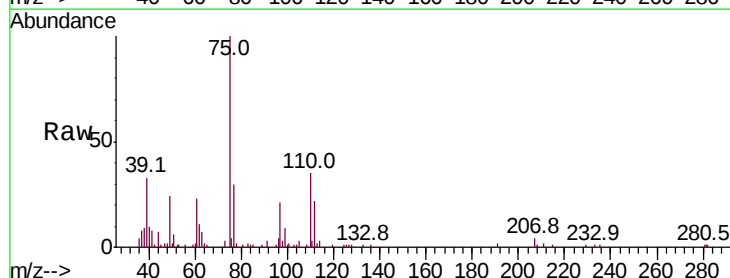
RT: 11.87 min Scan# 1150

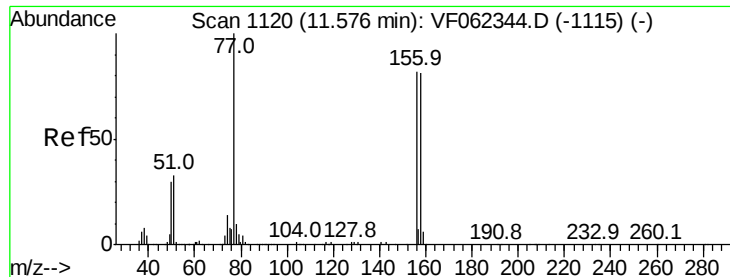
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	75	Resp:	35942
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.808 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion:156 Resp: 76080

Ion Ratio Lower Upper

156 100

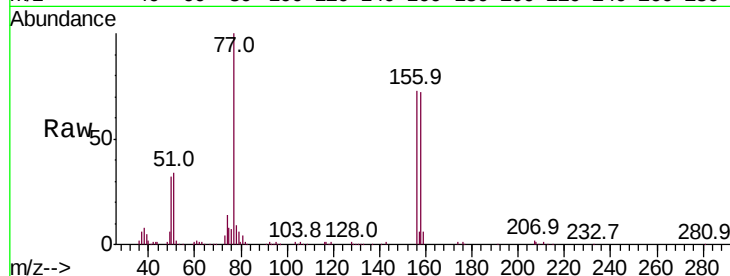
77 131.2 64.8 194.3

158 102.8 49.1 147.3

Manual Integrations
APPROVED

MMDadoda

5/11/2019 3:54:10 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V

80000

60000

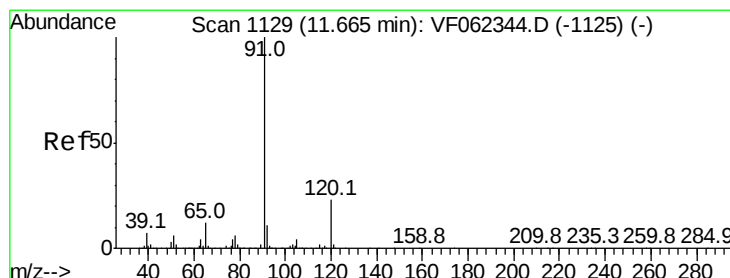
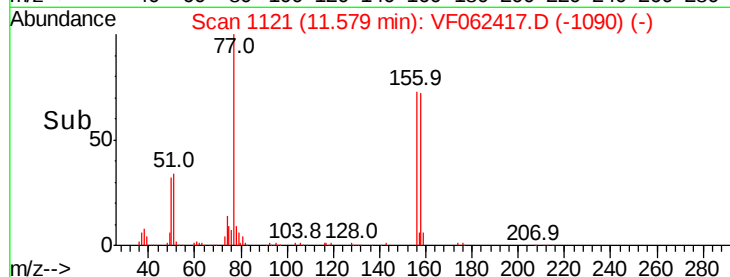
40000

20000

0

11.50 11.60 11.70

Time-->



#78

n-propylbenzene

Concen: 20.765 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.01 min

Lab File: VF062417.D

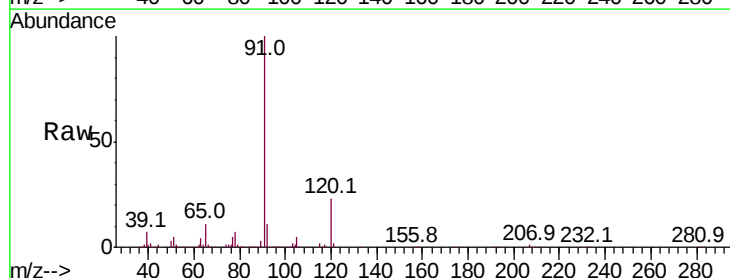
Acq: 10 May 2019 12:19

Tgt Ion: 91 Resp: 323542

Ion Ratio Lower Upper

91 100

120 22.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

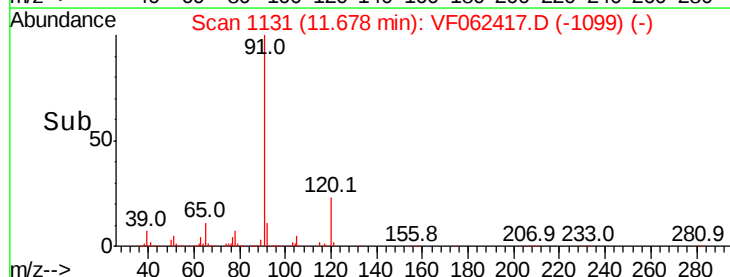
100000

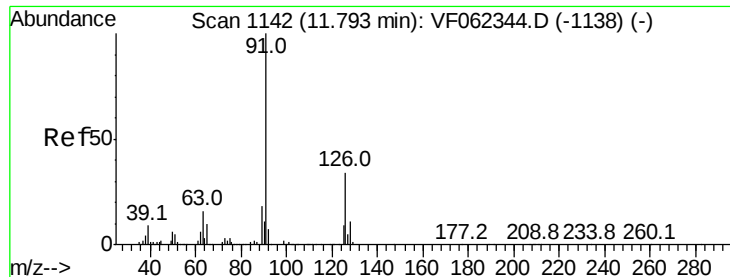
50000

0

11.60 11.70

Time-->





#79

2-Chlorotoluene

Concen: 21.301 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion: 91 Resp: 206372

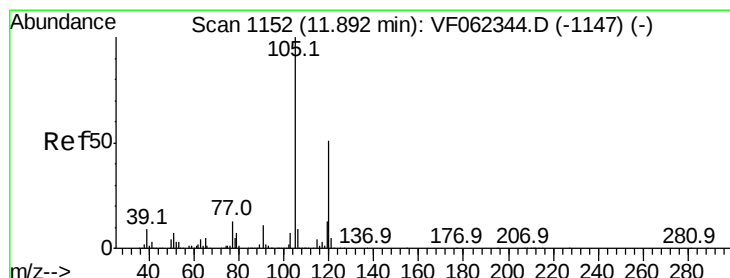
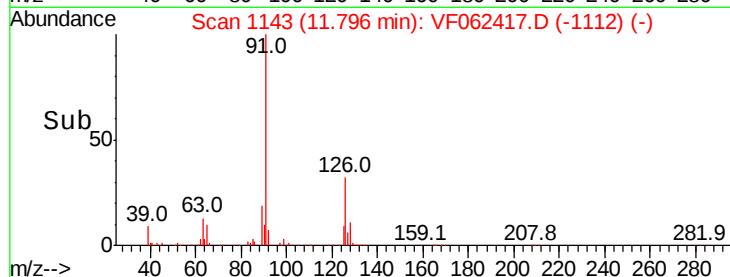
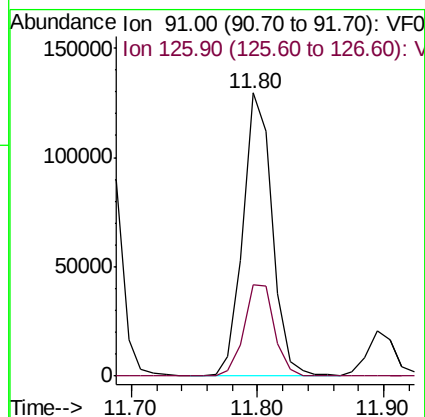
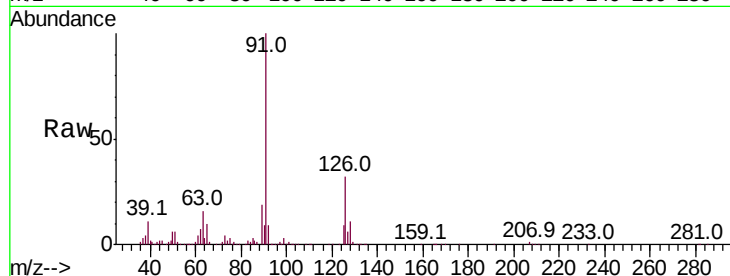
Ion Ratio Lower Upper

91 100

126 34.1 17.8 53.4

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.248 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062417.D

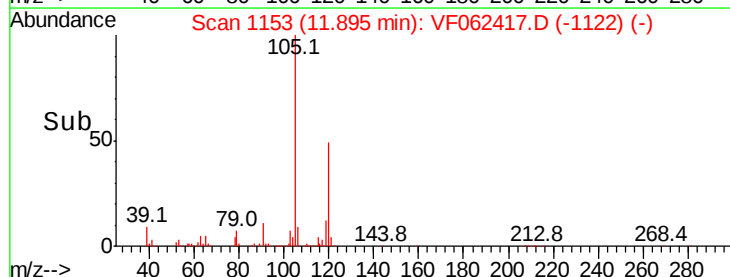
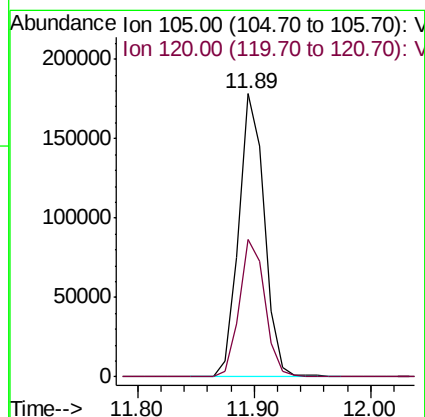
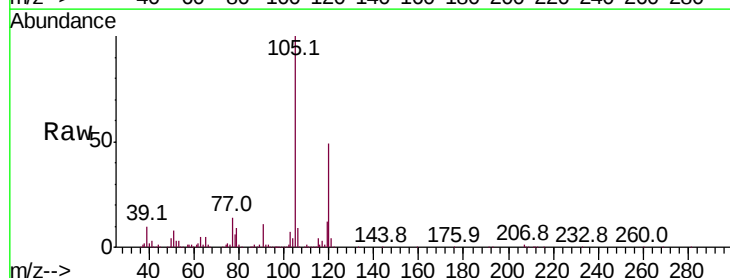
Acq: 10 May 2019 12:19

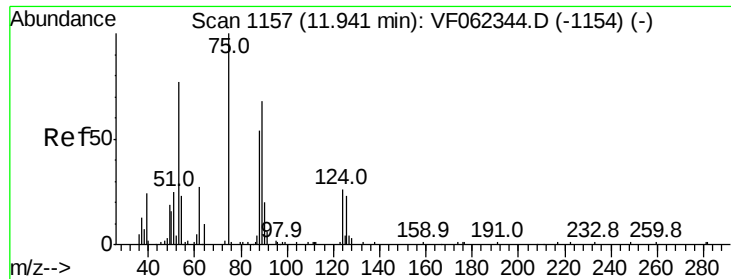
Tgt Ion:105 Resp: 272553

Ion Ratio Lower Upper

105 100

120 48.4 24.6 74.0





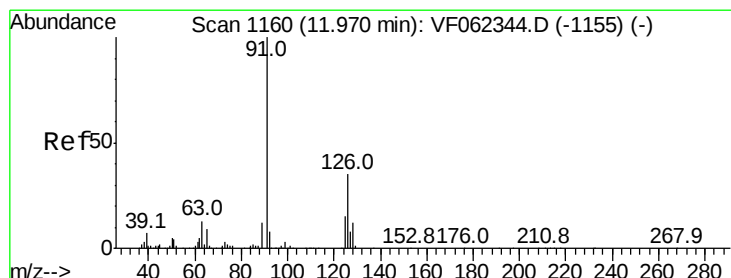
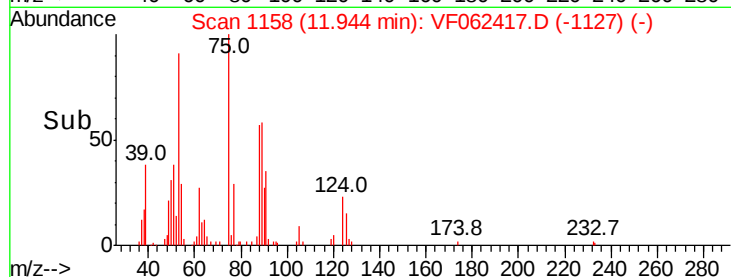
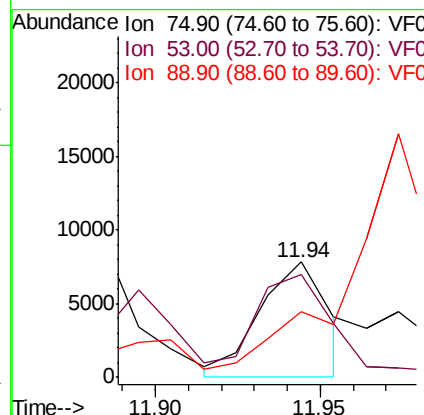
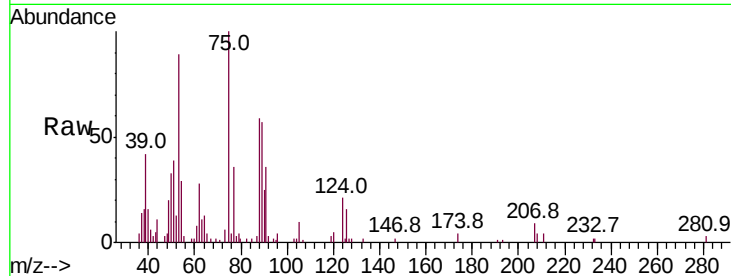
#81
trans-1,4-Dichloro-2-butene
Concen: 17.293 ug/l m
RT: 11.94 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion: 75 Resp: 11364
Ion Ratio Lower Upper
75 100
53 107.7 71.9 107.9
89 0.0 0.0 0.0

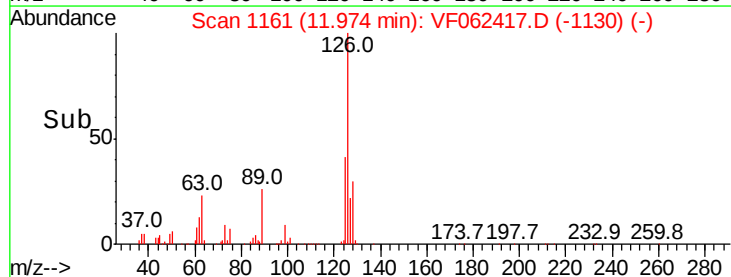
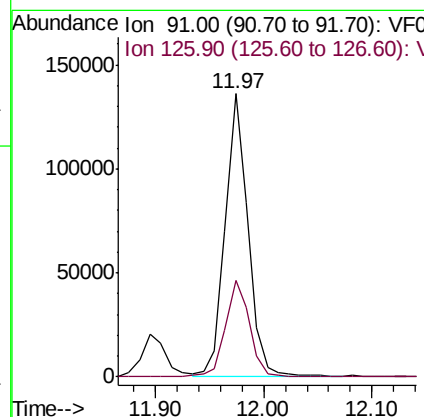
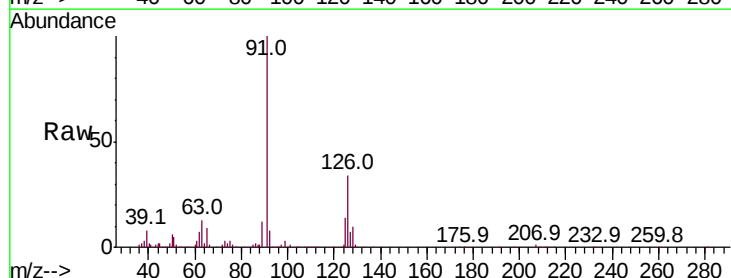
Manual Integrations
APPROVED

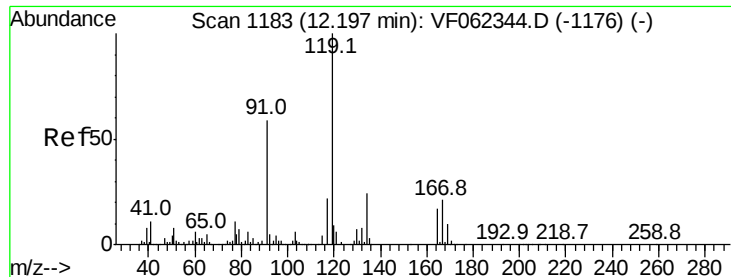
MMDadoda
5/11/2019 3:54:10 PM



#82
4-Chlorotoluene
Concen: 20.698 ug/l
RT: 11.97 min Scan# 1161
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion: 91 Resp: 198062
Ion Ratio Lower Upper
91 100
126 36.7 17.7 53.1





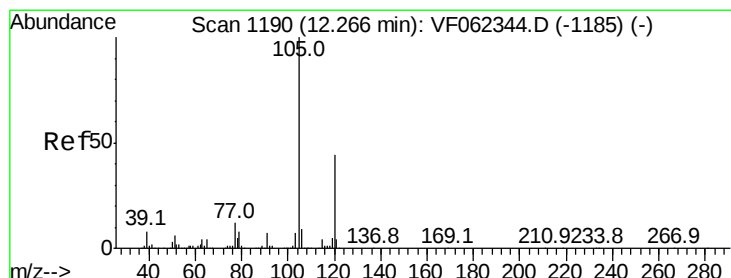
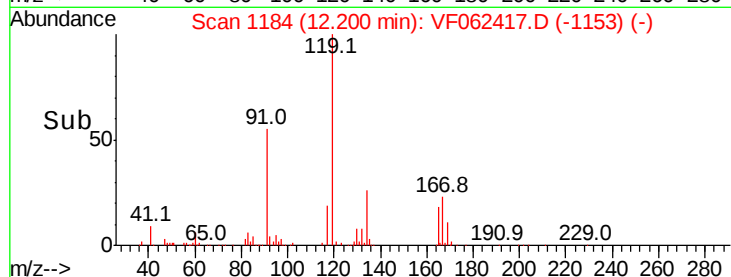
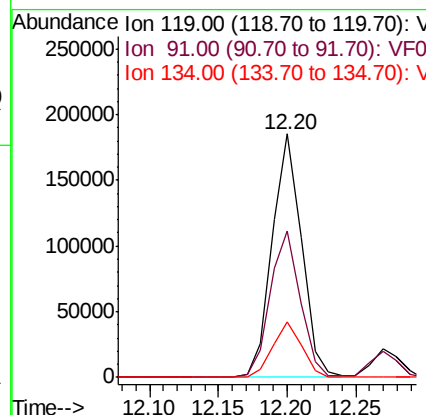
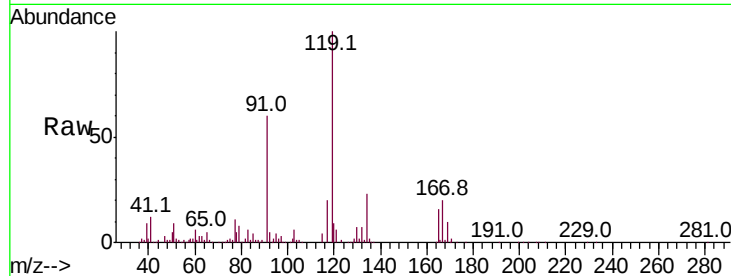
#83
tert-Butylbenzene
Concen: 20.449 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	275663		
91	61.7	30.4	91.3	
134	22.8	11.9	35.7	

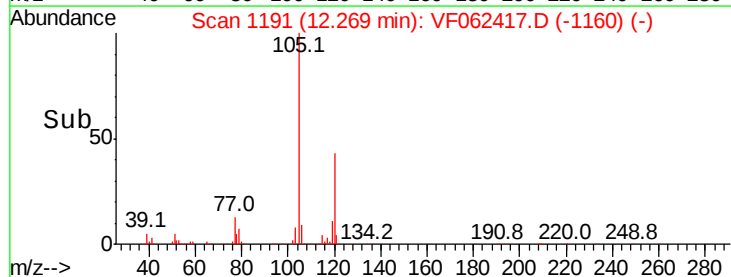
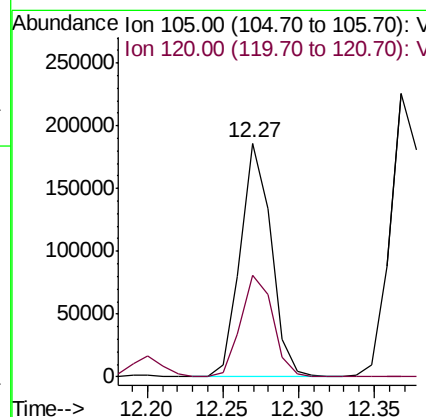
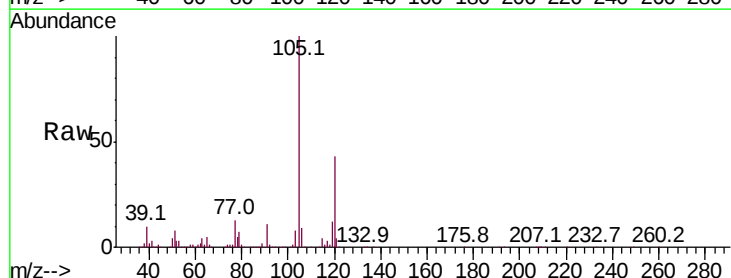
Manual Integrations
APPROVED

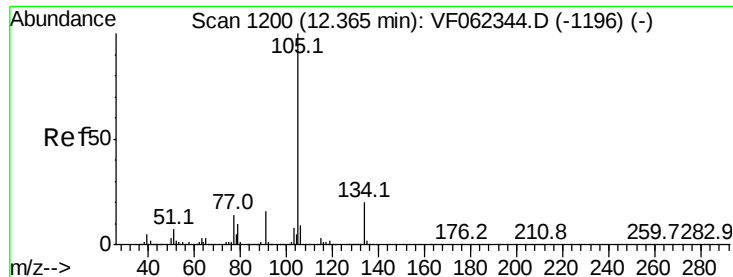
MMDadoda
5/11/2019 3:54:10 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.056 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	264317		
120	45.3	22.6	67.7	





#85

sec-Butylbenzene

Concen: 20.399 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

ClientSampleId :

VF0510SBS01

Tot Ion:105 Resp: 334712

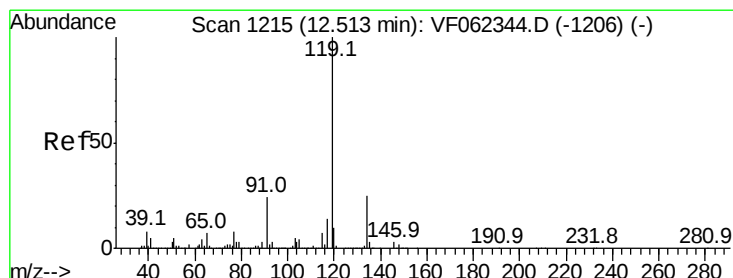
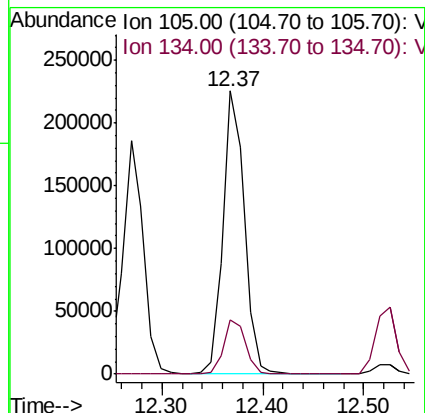
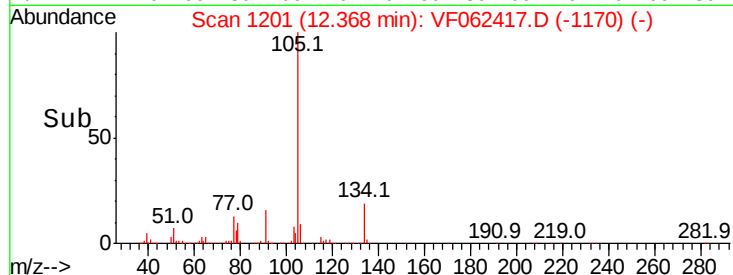
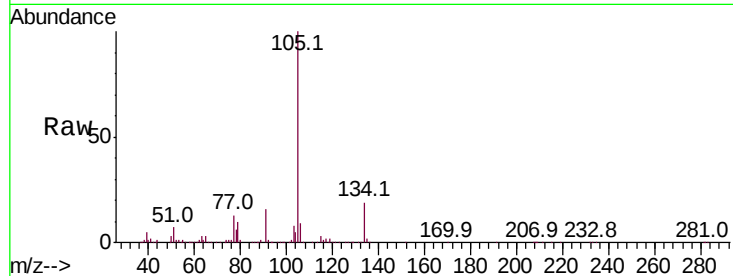
Ion Ratio Lower Upper

105 100

134 19.8 9.8 29.5

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#86

p-Isopropyltoluene

Concen: 21.029 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

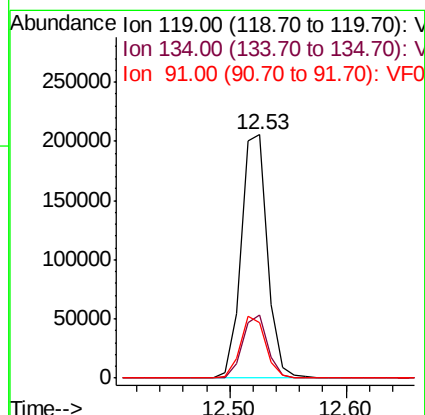
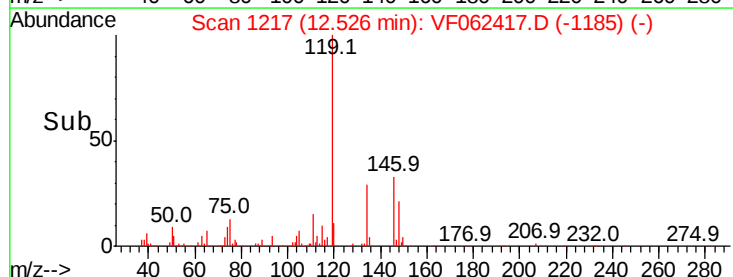
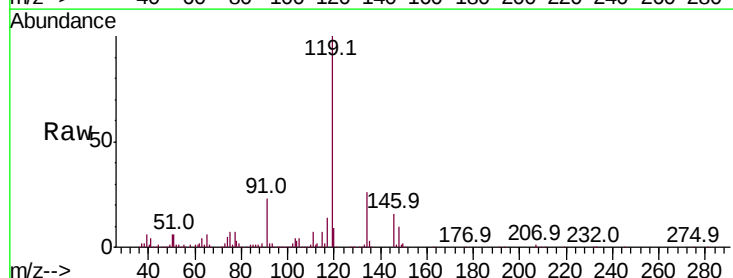
Tgt Ion:119 Resp: 320583

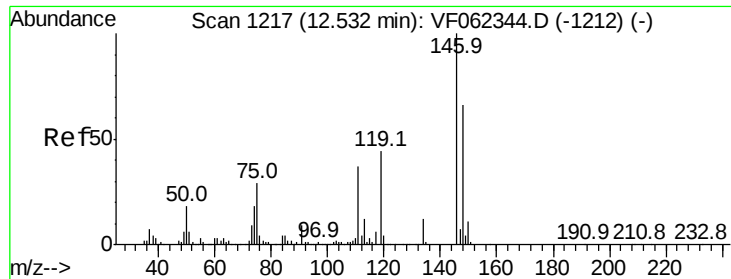
Ion Ratio Lower Upper

119 100

134 24.7 12.9 38.7

91 24.5 12.3 36.8





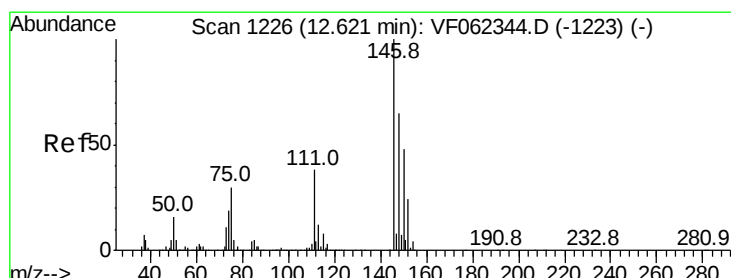
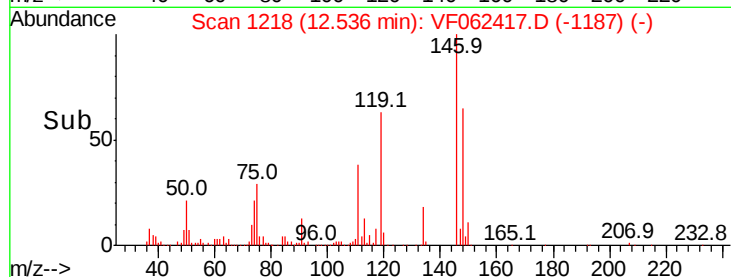
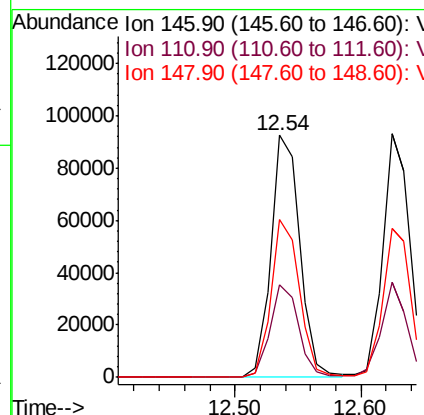
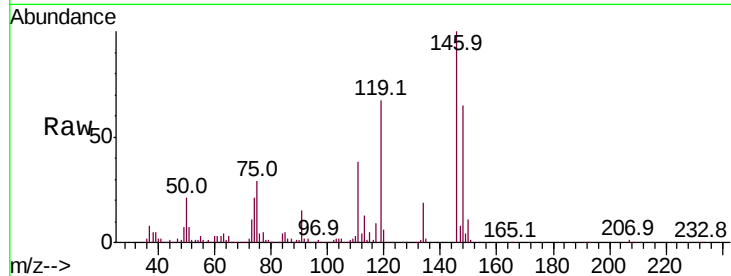
#87
 1,3-Dichlorobenzene
 Concen: 20.997 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.3	54.8
148	64.2	32.3	96.9

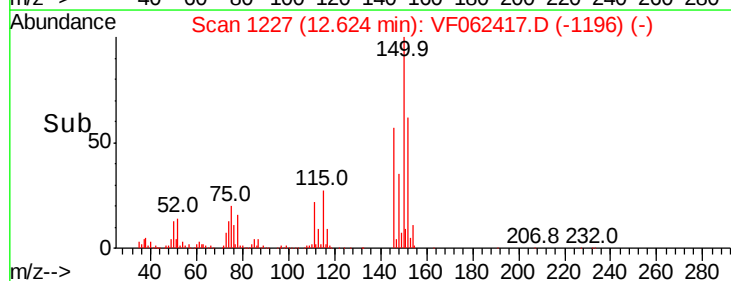
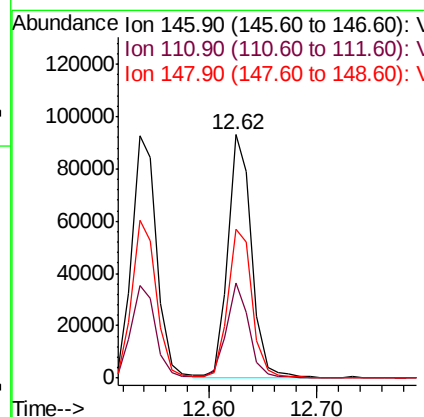
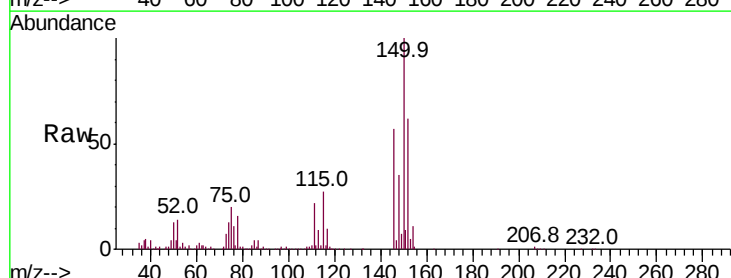
Manual Integrations
 APPROVED

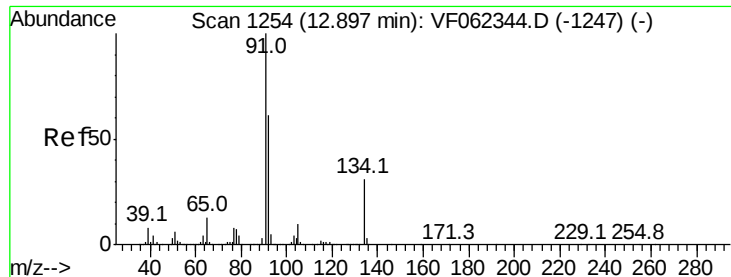
MMDadoda
 5/11/2019 3:54:10 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.838 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.3
148	63.3	32.2	96.6





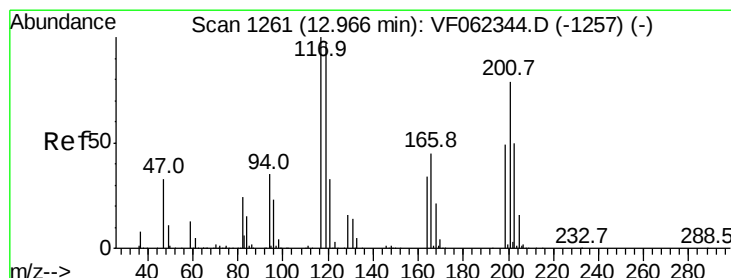
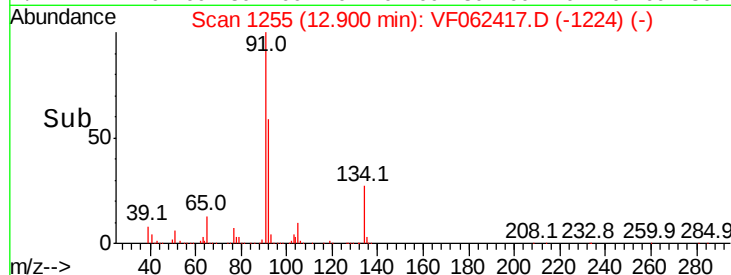
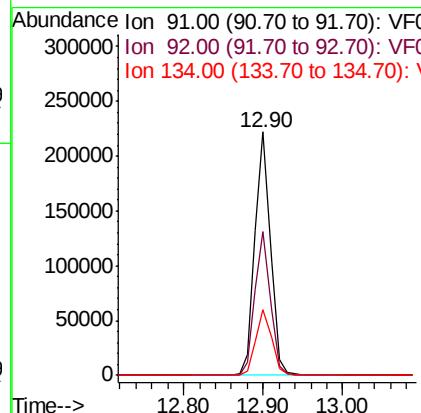
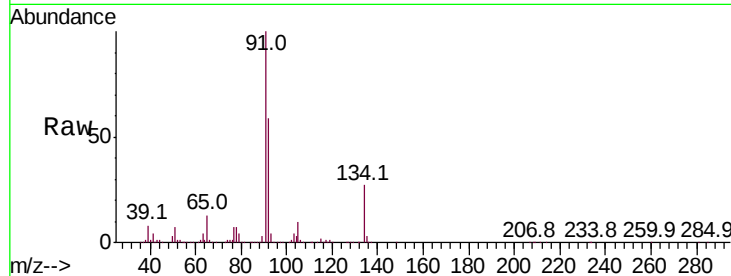
#89
n-Butylbenzene
Concen: 21.814 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	295868		
92	58.5	30.0	90.0	
134	27.4	14.1	42.4	

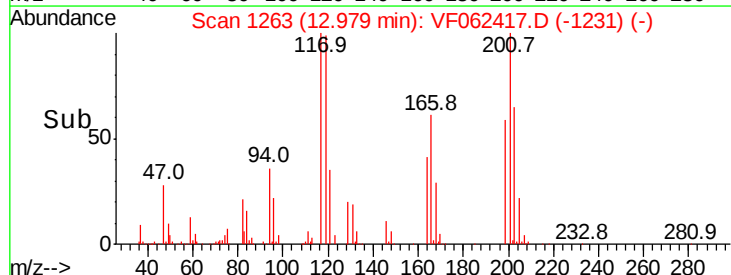
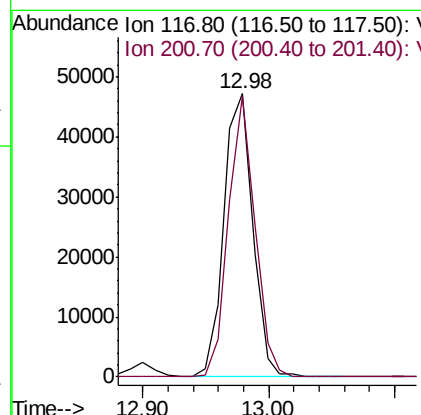
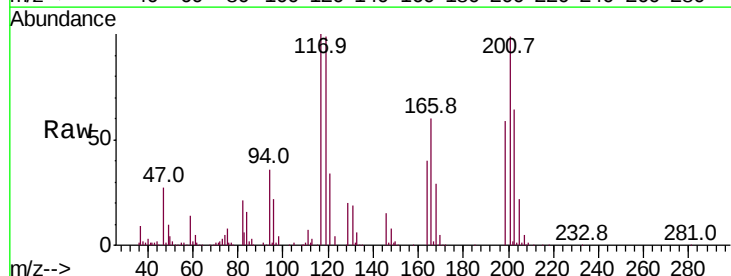
Manual Integrations
APPROVED

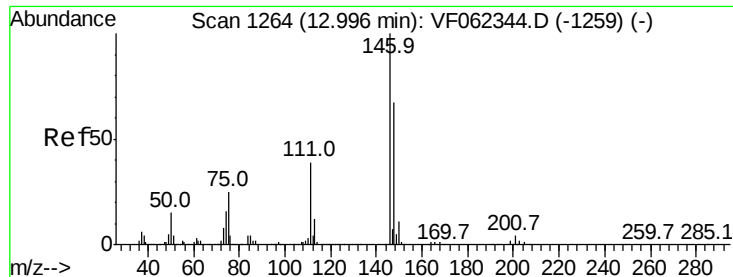
MMDadoda
5/11/2019 3:54:10 PM



#90
Hexachloroethane
Concen: 19.678 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	74904		
201	90.6	46.2	138.5	





#91

1,2-Dichlorobenzene

Concen: 21.412 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Instrument :

MSVOA_F

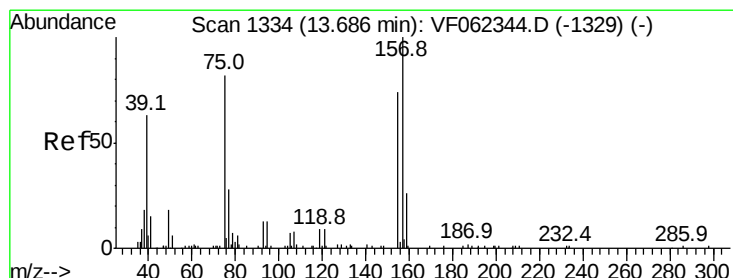
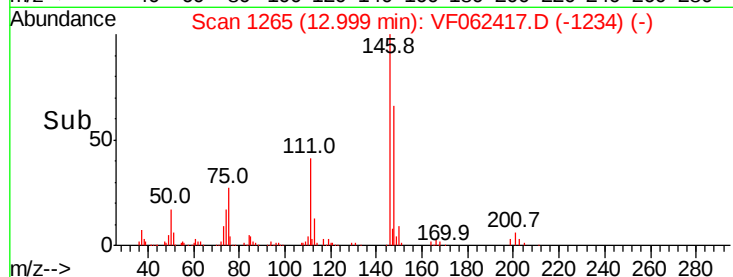
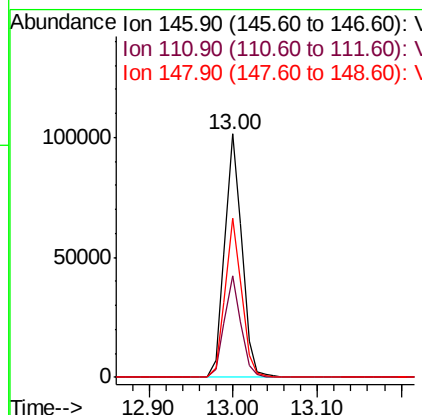
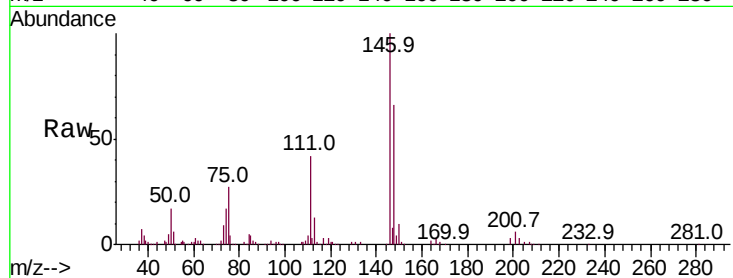
ClientSampleId :

VF0510SBS01

Tot Ion:	146	Resp:	145382
Ion Ratio	Lower	Upper	
146	100		
111	40.0	20.0	60.0
148	62.7	33.1	99.5

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.412 ug/l

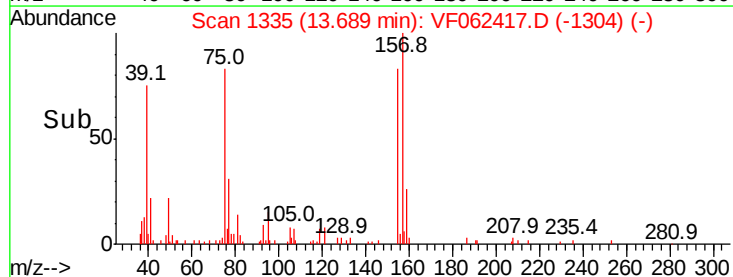
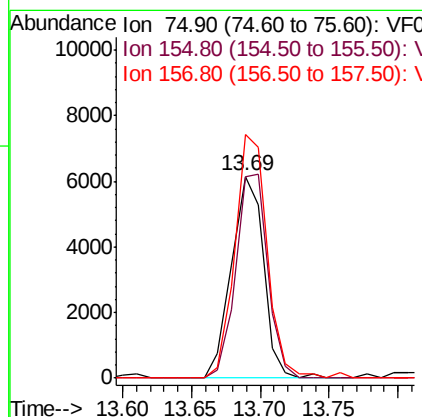
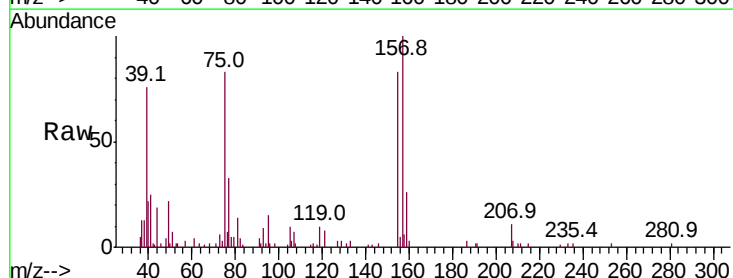
RT: 13.69 min Scan# 1335

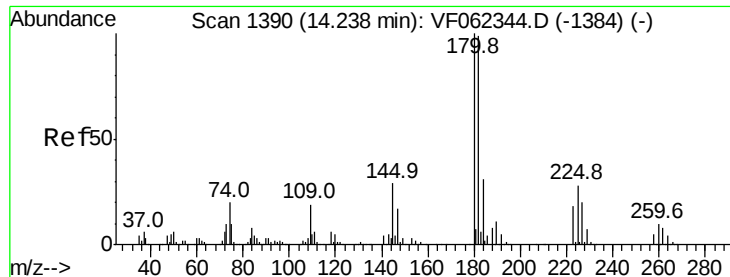
Delta R.T. 0.00 min

Lab File: VF062417.D

Acq: 10 May 2019 12:19

Tgt Ion:	75	Resp:	9965
Ion Ratio	Lower	Upper	
75	100		
155	100.9	51.8	155.4
157	121.0	67.3	201.8





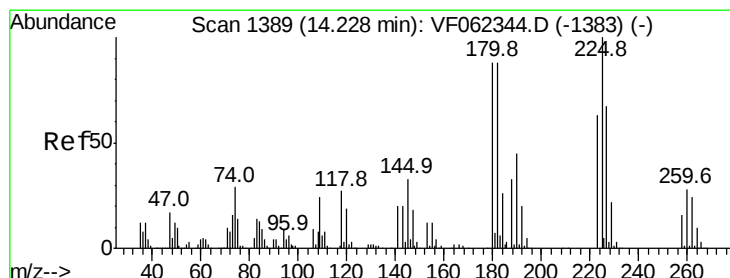
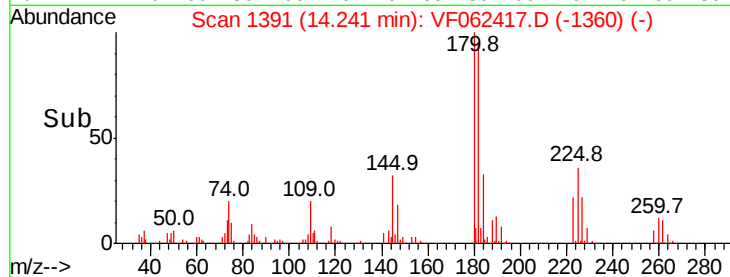
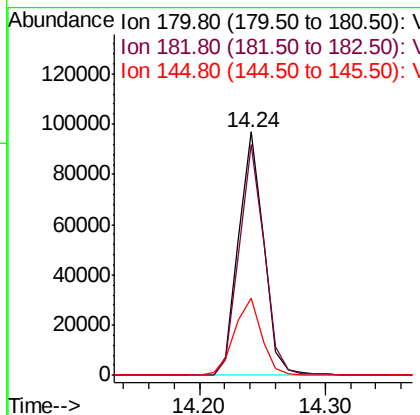
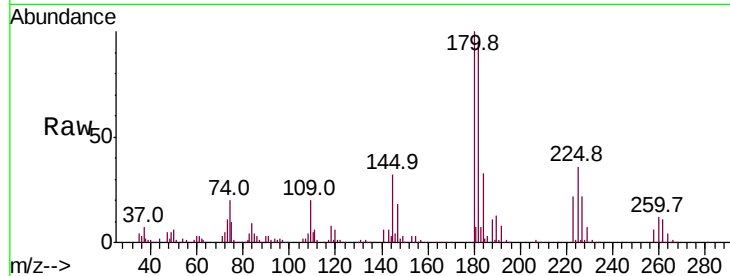
#93
 1,2,4-Trichlorobenzene
 Concen: 21.970 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0510SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	49.0	147.0	
145	34.1	16.7	50.1	

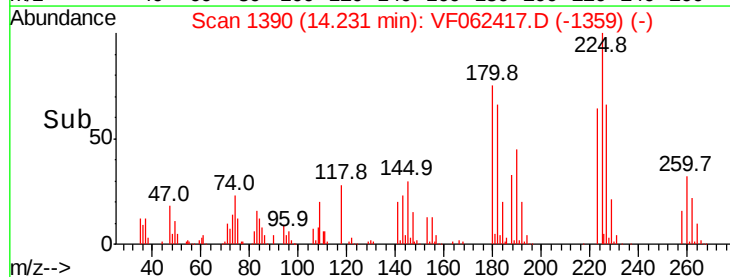
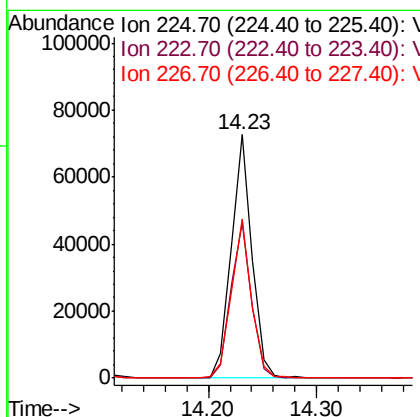
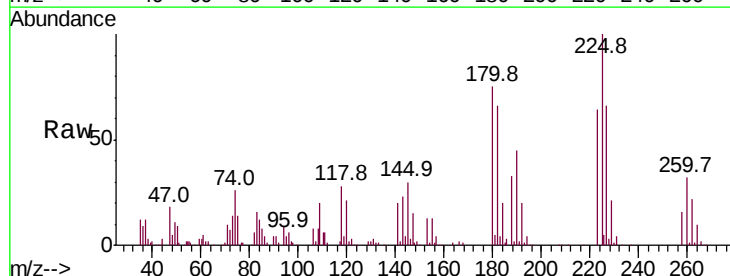
Manual Integrations
 APPROVED

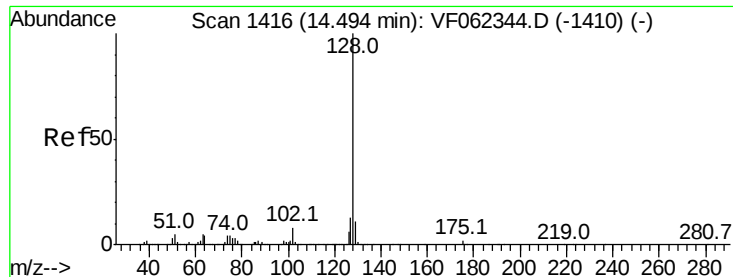
MMDadoda
 5/11/2019 3:54:10 PM



#94
 Hexachlorobutadiene
 Concen: 21.243 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062417.D
 Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.0	31.9	95.5	
227	64.6	33.1	99.5	





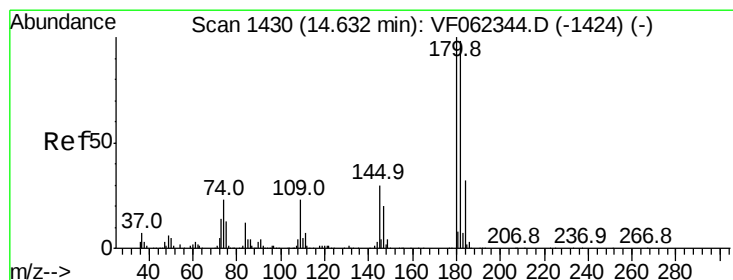
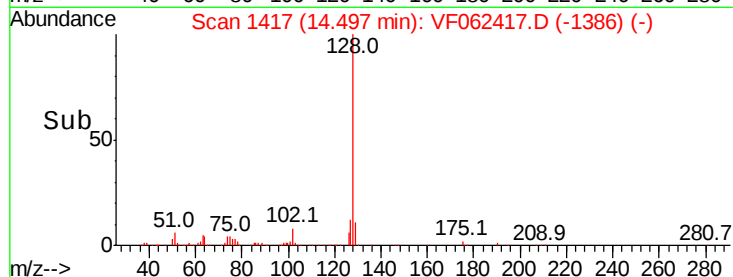
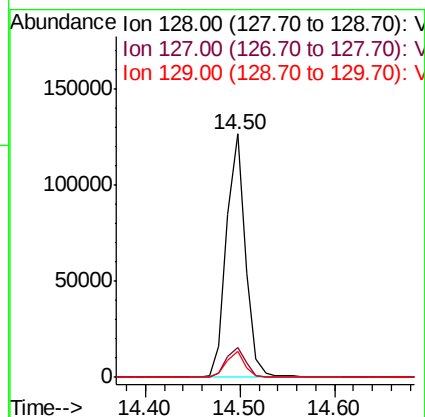
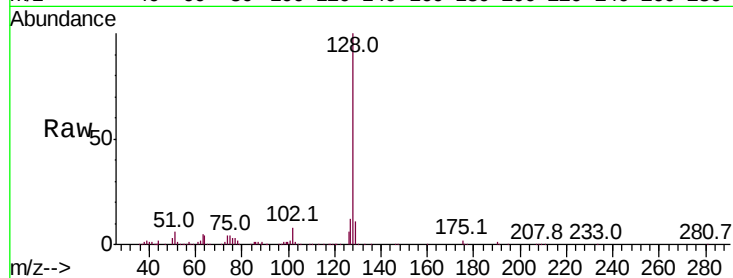
#95
Naphthalene
Concen: 19.258 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Instrument :
MSVOA_F
ClientSampleId :
VF0510SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.5	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/11/2019 3:54:10 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.220 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062417.D
Acq: 10 May 2019 12:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	49.4	148.0
145	28.2	14.8	44.3

