

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059334.D
 Acq On : 27 Jun 2018 13:01
 Operator : VA/AP
 Sample : VF0627SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Manual Integrations
 APPROVED

apatel
 6/28/2018 11:09:50 AM

Quant Time: Jun 27 16:40:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	294522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	473608	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	467922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	283842	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	173381	45.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.12%	
35) Dibromofluoromethane	4.28	113	155964	45.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.14%	
50) Toluene-d8	7.70	98	362881	42.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.70%	
62) 4-Bromofluorobenzene	11.50	95	200160	41.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	55339	20.57	ug/l	93
3) Chloromethane	1.08	50	36161	20.00	ug/l	95
4) Vinyl Chloride	1.14	62	42199	23.71	ug/l	99
5) Bromomethane	1.34	94	24793	22.21	ug/l	99
6) Chloroethane	1.42	64	20934	23.36	ug/l	94
7) Trichlorofluoromethane	1.48	101	69449m	19.74	ug/l	
8) Diethyl Ether	1.69	74	20324	22.53	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.89	101	44728	21.78	ug/l	97
10) Methyl Iodide	1.96	142	83001m	22.16	ug/l	
11) Tert butyl alcohol	2.67	59	26061	102.88	ug/l	95
12) 1,1-Dichloroethene	1.85	96	37987	21.88	ug/l	93
13) Acrolein	2.08	56	15834	121.12	ug/l	94
14) Allyl chloride	2.18	41	75278	23.09	ug/l	91
15) Acrylonitrile	3.07	53	56308	126.22	ug/l	87
16) Acetone	2.32	43	129716	131.67	ug/l	98
17) Carbon Disulfide	1.86	76	91494m	22.40	ug/l	
18) Methyl Acetate	2.44	43	37009	20.87	ug/l	98
19) Methyl tert-butyl Ether	2.53	73	144451	22.30	ug/l #	89
20) Methylene Chloride	2.26	84	57116m	22.74	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	44718	24.14	ug/l	91
22) Diisopropyl ether	2.92	45	165213	22.89	ug/l	94
23) Vinyl Acetate	3.32	43	553213	120.35	ug/l	99
24) 1,1-Dichloroethane	2.98	63	98723	22.06	ug/l	98
25) 2-Butanone	4.49	43	149259	128.33	ug/l	94
26) 2,2-Dichloropropane	3.74	77	73574	23.84	ug/l	84
27) cis-1,2-Dichloroethene	3.63	96	63133	22.45	ug/l	88
28) Bromochloromethane	3.87	49	45607	24.36	ug/l	95
29) Tetrahydrofuran	4.24	42	63299	124.90	ug/l	97
30) Chloroform	4.02	83	131358	20.28	ug/l	98
31) Cyclohexane	3.84	56	65009	22.17	ug/l	96
32) 1,1,1-Trichloroethane	4.27	97	106745	22.52	ug/l	93
36) 1,1-Dichloropropene	4.44	75	88843	21.47	ug/l	99
37) Ethyl Acetate	4.28	43	57878	21.01	ug/l	96
38) Carbon Tetrachloride	4.16	117	100477m	19.24	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059334.D
 Acq On : 27 Jun 2018 13:01
 Operator : VA/AP
 Sample : VF0627SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0627SBS01

Manual Integrations
 APPROVED

apatel
 6/28/2018 11:09:50 AM

Quant Time: Jun 27 16:40:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	82857	22.60	ug/l	96
40) Benzene	4.80	78	196336	21.40	ug/l	98
41) Methacrylonitrile	4.91	41	27792	19.69	ug/l #	87
42) 1,2-Dichloroethane	5.10	62	101322	18.90	ug/l	99
43) Isopropyl Acetate	7.09	43	74494	21.62	ug/l #	100
44) Trichloroethene	5.67	130	67071	21.31	ug/l	93
45) 1,2-Dichloropropane	6.39	63	55930	21.34	ug/l #	87
46) Dibromomethane	6.24	93	45778	20.12	ug/l	98
47) Bromodichloromethane	6.53	83	97571	17.72	ug/l	95
48) Methyl methacrylate	6.86	41	49964	21.63	ug/l	90
49) 1,4-Dioxane	6.86	88	6177	479.07	ug/l	91
51) 4-Methyl-2-Pentanone	8.40	43	285047	111.65	ug/l	100
52) Toluene	7.77	92	130102	18.95	ug/l	100
53) t-1,3-Dichloropropene	8.42	75	101110	20.14	ug/l	96
54) cis-1,3-Dichloropropene	7.45	75	108114	19.83	ug/l	93
55) 1,1,2-Trichloroethane	8.62	97	54518	20.46	ug/l	96
56) Ethyl methacrylate	8.75	69	66702	20.20	ug/l	95
57) 1,3-Dichloropropane	8.99	76	96133	21.03	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.77	63	24170	97.61	ug/l	100
59) 2-Hexanone	9.62	43	246857	119.91	ug/l	100
60) Dibromochloromethane	8.85	129	83388	20.27	ug/l	93
61) 1,2-Dibromoethane	9.14	107	28151	8.71	ug/l #	63
64) Tetrachloroethene	8.30	164	66111	21.78	ug/l	96
65) Chlorobenzene	9.92	112	166843	19.24	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.06	131	76025	20.27	ug/l	93
67) Ethyl Benzene	10.02	91	313428	21.31	ug/l	95
68) m/p-Xylenes	10.26	106	224457	42.87	ug/l	100
69) o-Xylene	10.82	106	128245	21.90	ug/l	95
70) Styrene	10.89	104	195306	21.89	ug/l	98
71) Bromoform	10.88	173	51870	20.18	ug/l	98
73) Isopropylbenzene	11.22	105	364211	22.03	ug/l	100
74) N-amyl acetate	11.45	43	139577	23.26	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.78	83	89927	21.53	ug/l	96
76) 1,2,3-Trichloropropane	11.88	75	68999	21.90	ug/l	91
77) Bromobenzene	11.59	156	93621	20.41	ug/l	83
78) n-propylbenzene	11.69	91	313418	15.78	ug/l	100
79) 2-Chlorotoluene	11.81	91	262111	21.60	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	325697	22.49	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	39600	21.12	ug/l	98
82) 4-Chlorotoluene	11.98	91	272958	21.00	ug/l	97
83) tert-Butylbenzene	12.21	119	319879	22.08	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	320741	21.02	ug/l	100
85) sec-Butylbenzene	12.38	105	420222	21.88	ug/l	99
86) p-Isopropyltoluene	12.54	119	357791	22.20	ug/l	96
87) 1,3-Dichlorobenzene	12.55	146	182475	21.47	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	173142	21.13	ug/l	98
89) n-Butylbenzene	12.91	91	365064	22.31	ug/l	97
90) Hexachloroethane	12.99	117	85464	21.28	ug/l	88
91) 1,2-Dichlorobenzene	13.01	146	174154	20.91	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.71	75	18536	20.02	ug/l	84

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF062718\
Data File : VF059334.D
Acq On : 27 Jun 2018 13:01
Operator : VA/AP
Sample : VF0627SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBSD01

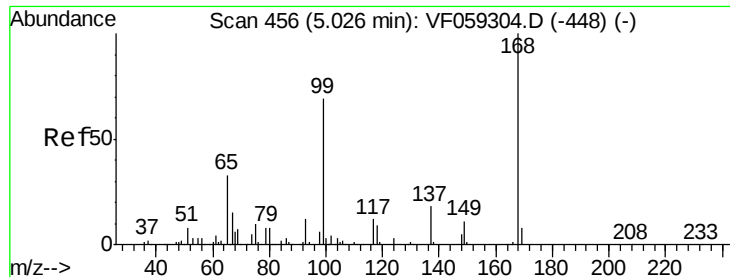
Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM

Quant Time: Jun 27 16:40:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	134772	21.88	ug/l	99
94) Hexachlorobutadiene	14.25	225	75359	21.91	ug/l	92
95) Naphthalene	14.52	128	279995	21.73	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	124334	21.31	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion:168 Resp: 294522

Ion Ratio Lower Upper

168 100

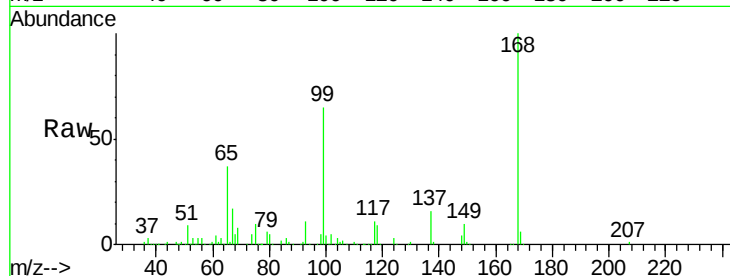
99 65.0 54.9 82.3

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

100000

80000

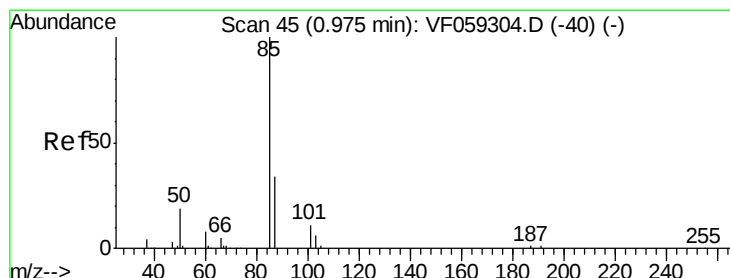
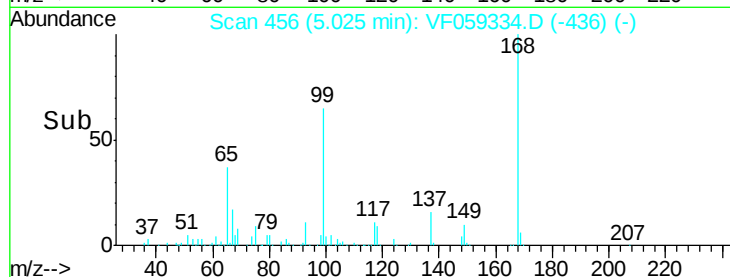
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.57 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059334.D

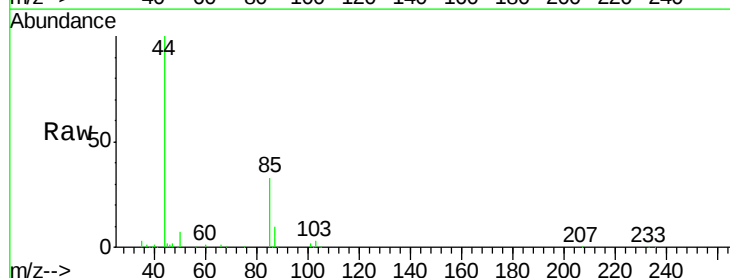
Acq: 27 Jun 2018 13:01

Tgt Ion: 85 Resp: 55339

Ion Ratio Lower Upper

85 100

87 30.3 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

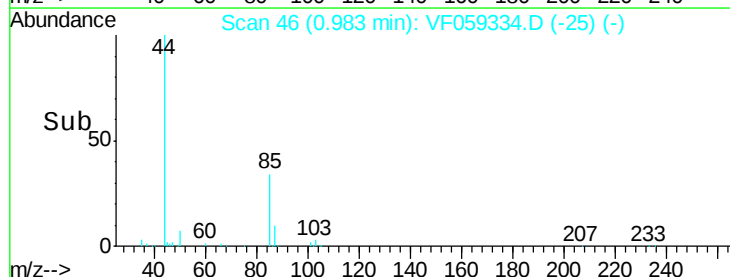
15000

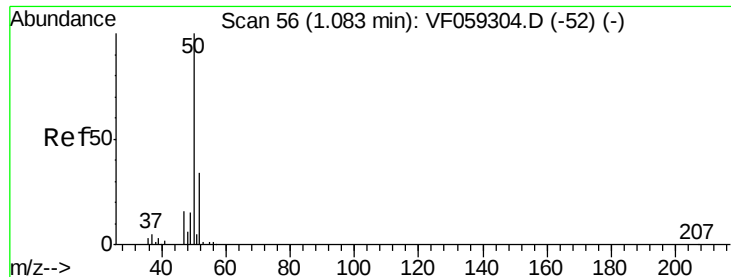
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.00 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 50 Resp: 36161

Ion Ratio Lower Upper

50 100

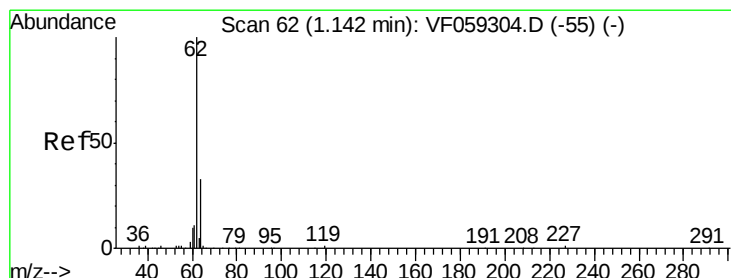
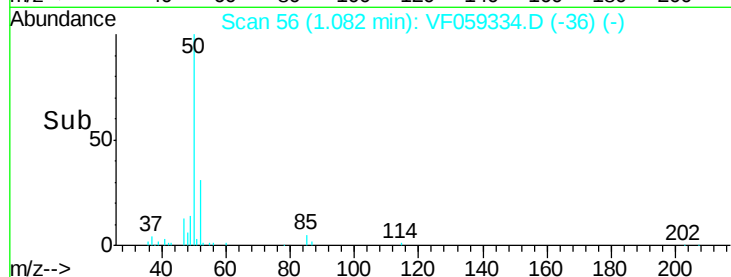
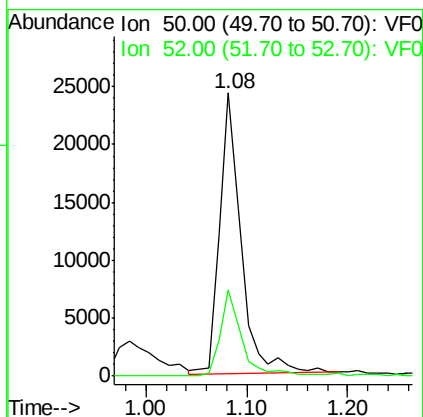
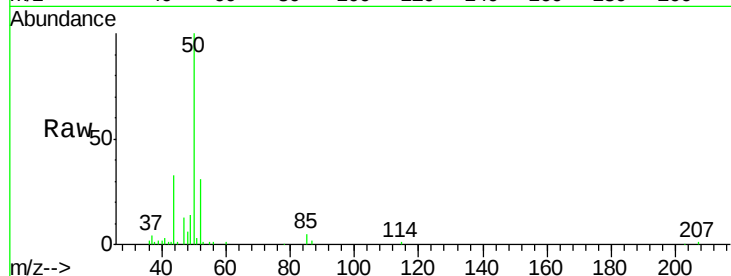
52 30.7 26.7 40.1

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#4

Vinyl Chloride

Concen: 23.71 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059334.D

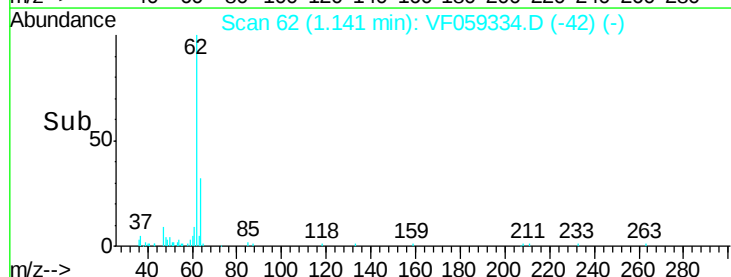
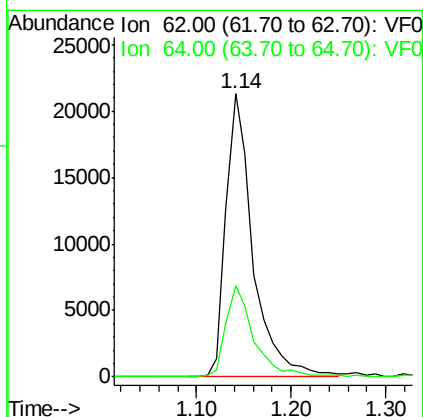
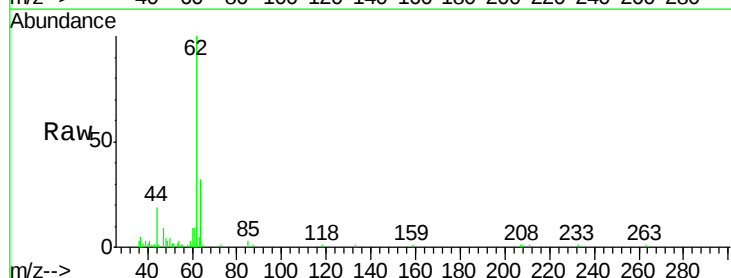
Acq: 27 Jun 2018 13:01

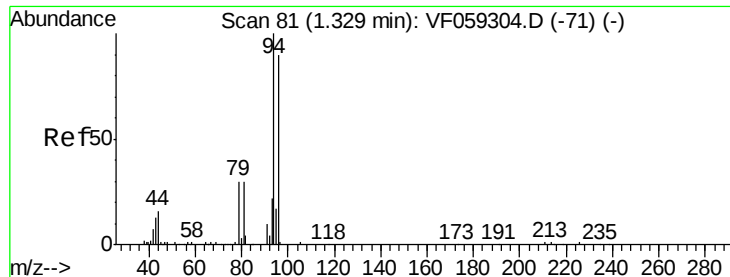
Tgt Ion: 62 Resp: 42199

Ion Ratio Lower Upper

62 100

64 32.3 26.3 39.5





#5

Bromomethane

Concen: 22.21 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 94 Resp: 24793

Ion Ratio Lower Upper

94 100

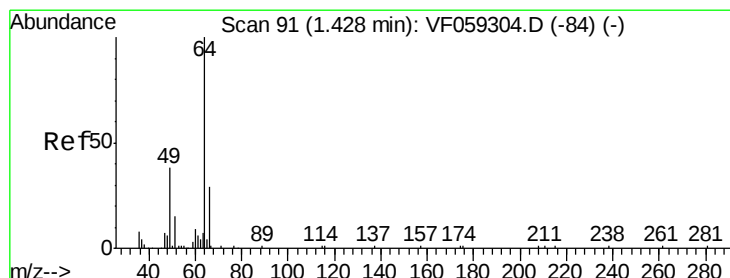
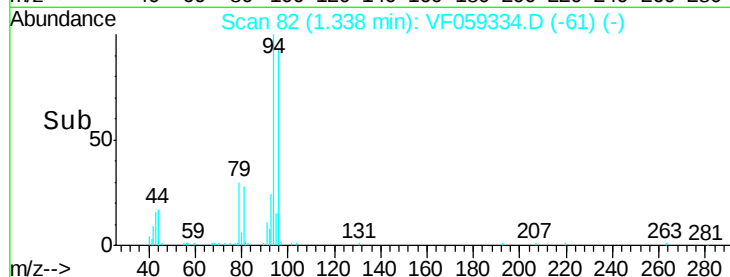
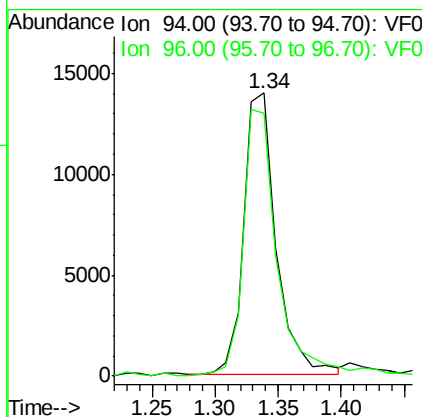
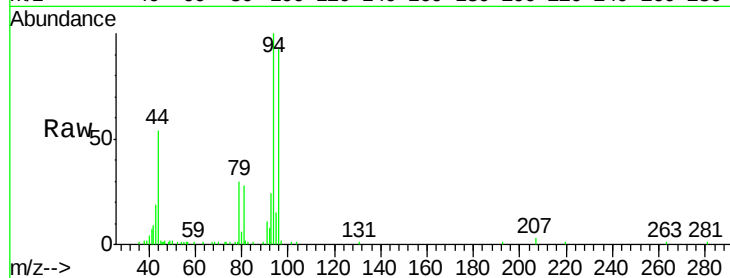
96 92.9 73.4 110.0

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#6

Chloroethane

Concen: 23.36 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059334.D

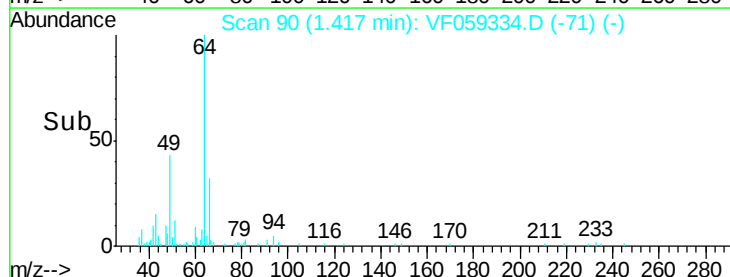
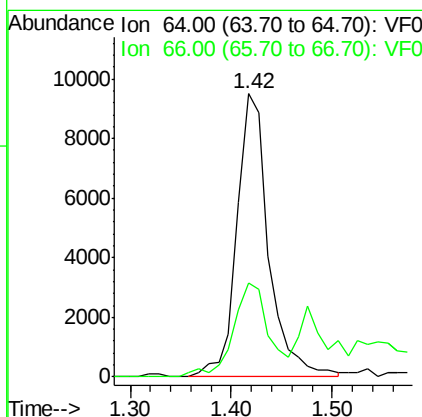
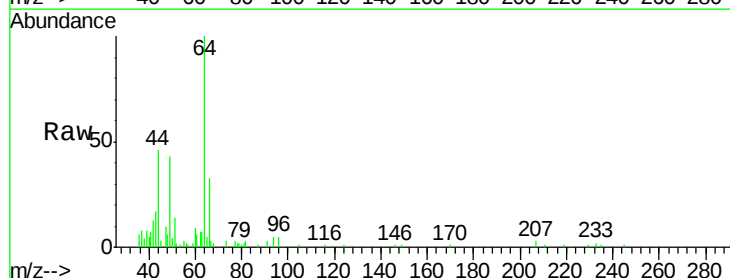
Acq: 27 Jun 2018 13:01

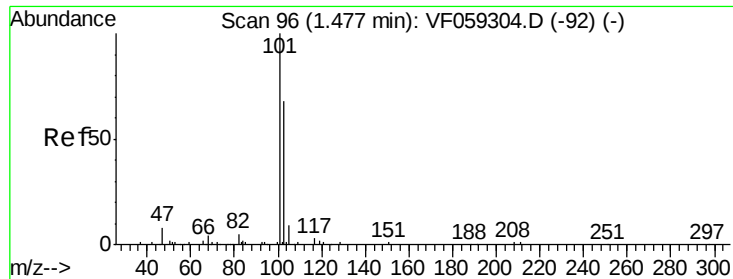
Tgt Ion: 64 Resp: 20934

Ion Ratio Lower Upper

64 100

66 33.1 23.9 35.9





#7

Trichlorofluoromethane

Concen: 19.74 ug/l m

RT: 1.48 min Scan# 96

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion:101 Resp: 69449

Ion Ratio Lower Upper

101 100

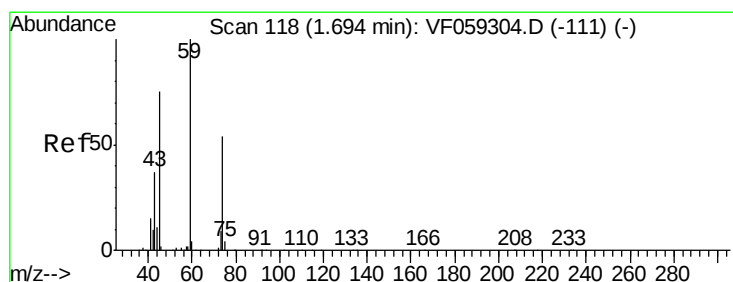
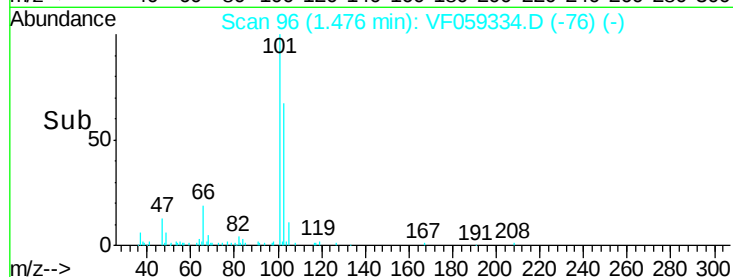
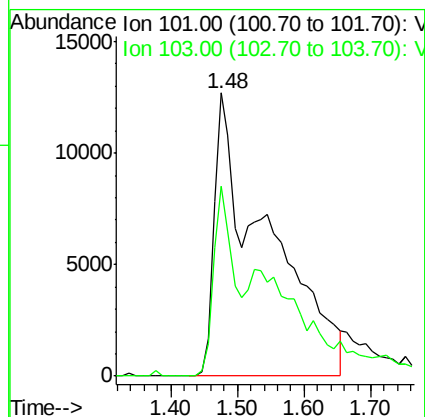
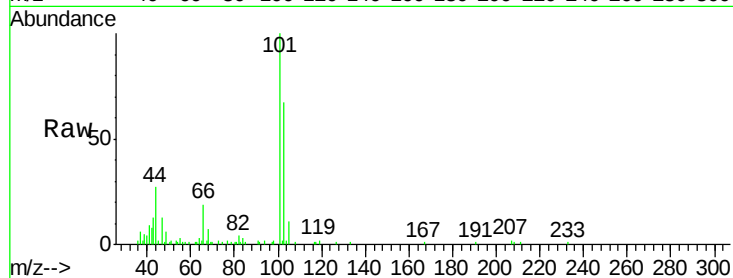
103 67.2 54.2 81.2

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#8

Diethyl Ether

Concen: 22.53 ug/l

RT: 1.69 min Scan# 118

Delta R.T. -0.00 min

Lab File: VF059334.D

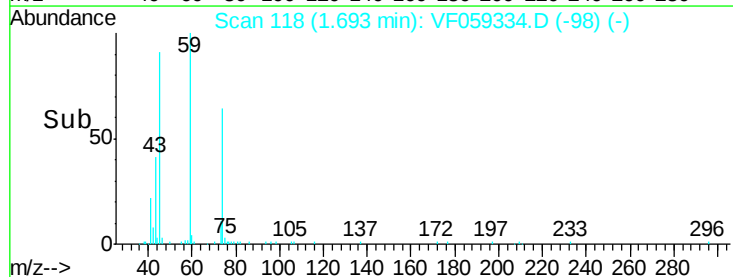
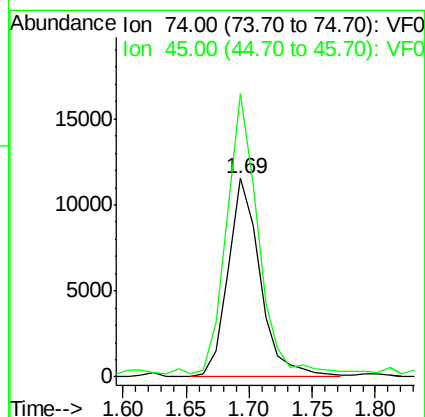
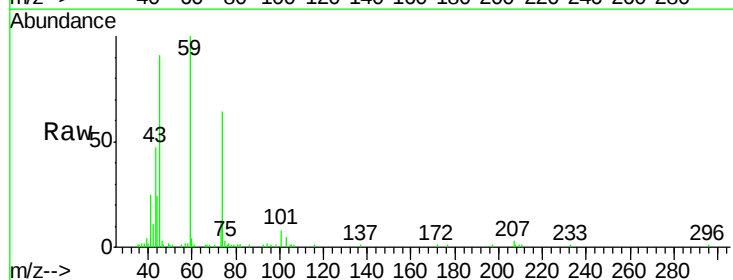
Acq: 27 Jun 2018 13:01

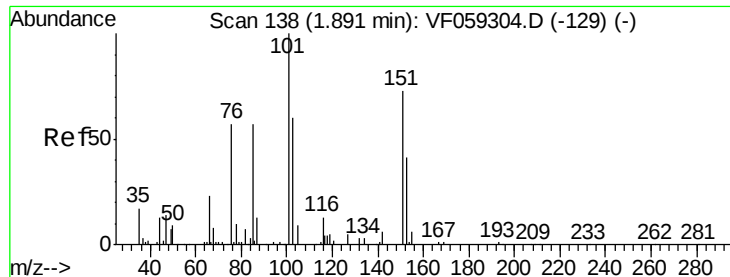
Tgt Ion: 74 Resp: 20324

Ion Ratio Lower Upper

74 100

45 142.7 70.0 210.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.78 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

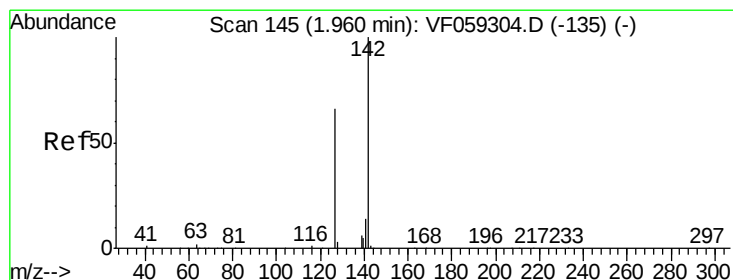
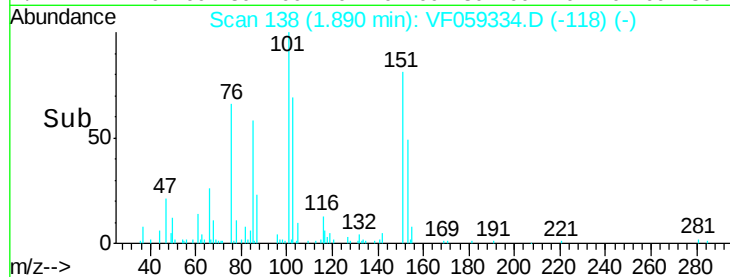
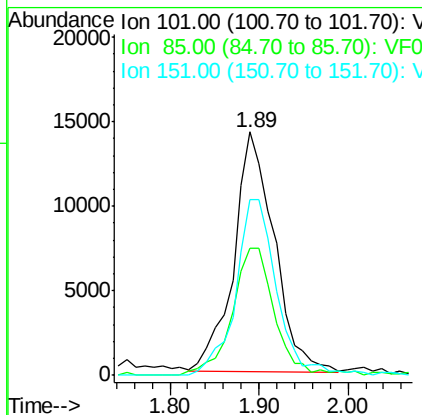
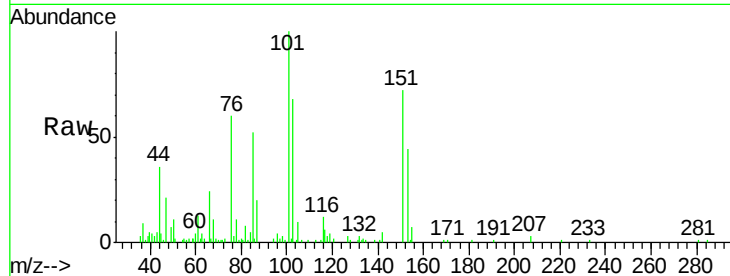
ClientSampleId :

VF0627SBS01

Tot Ion:	101	Resp:	44728
Ion Ratio	Lower	Upper	
101	100		
85	52.4	44.5	66.7
151	72.3	56.8	85.2

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#10

Methyl Iodide

Concen: 22.16 ug/l m

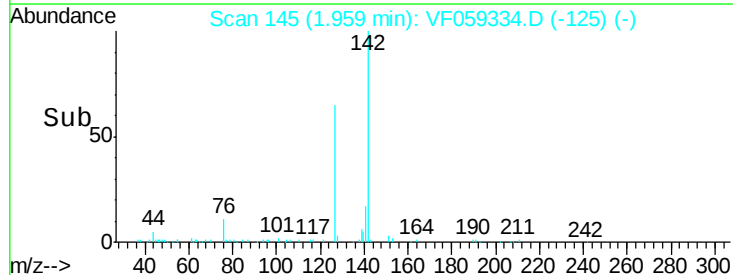
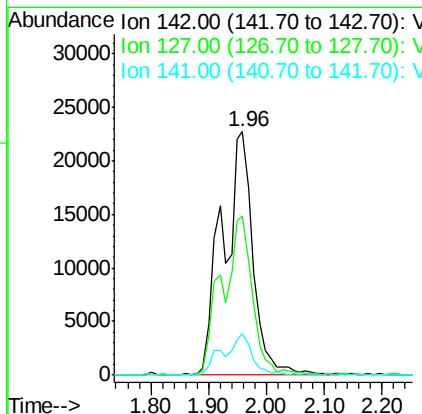
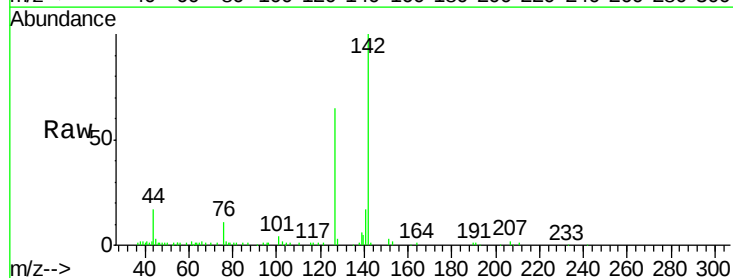
RT: 1.96 min Scan# 145

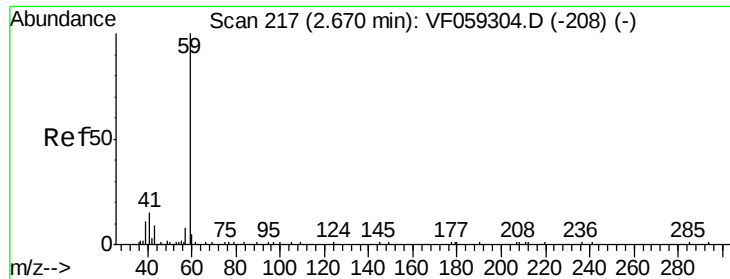
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	142	Resp:	83001
Ion Ratio	Lower	Upper	
142	100		
127	65.2	52.5	78.7
141	17.0	11.5	17.3





#11

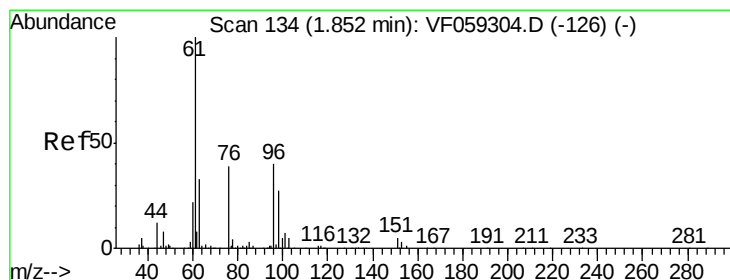
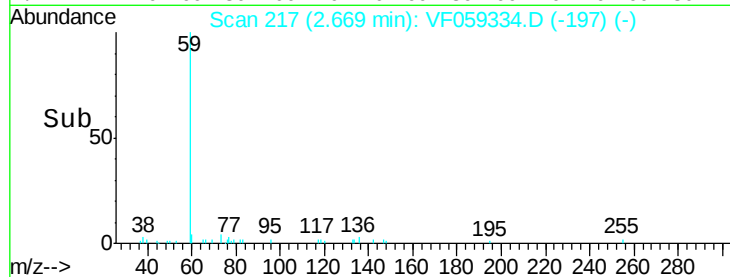
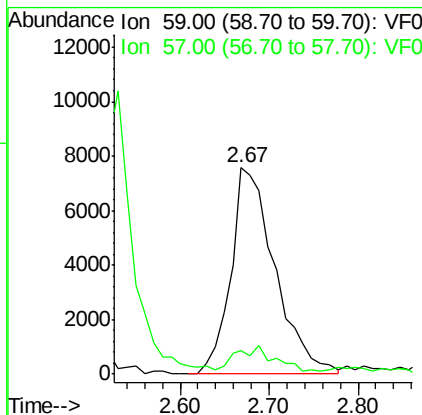
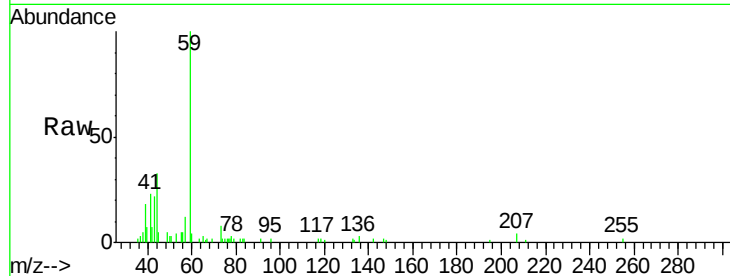
Tert butyl alcohol
Concen: 102.88 ug/l
RT: 2.67 min Scan# 217
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.6	11.0	16.4

Manual Integrations
APPROVED

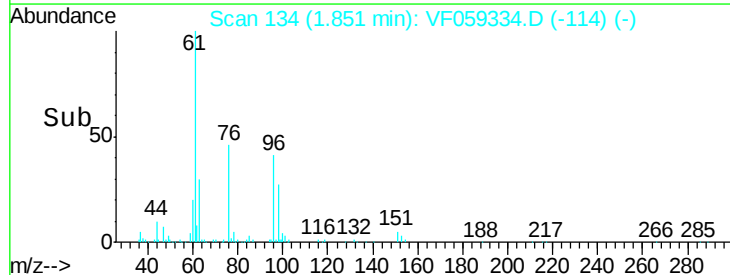
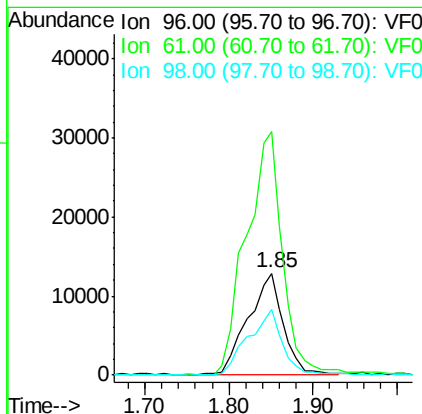
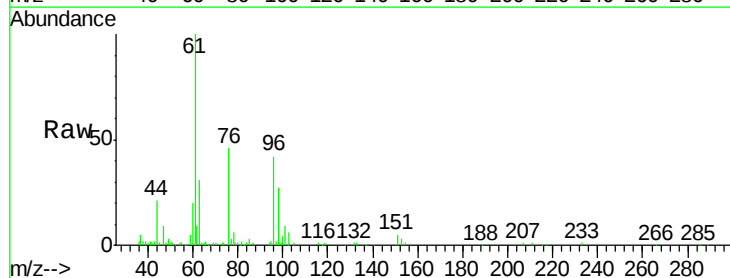
apatel
6/28/2018 11:09:50 AM

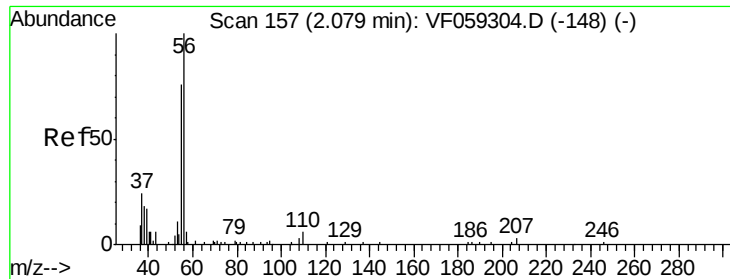


#12

1,1-Dichloroethene
Concen: 21.88 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	238.6	201.1	301.7
98	64.4	53.9	80.9





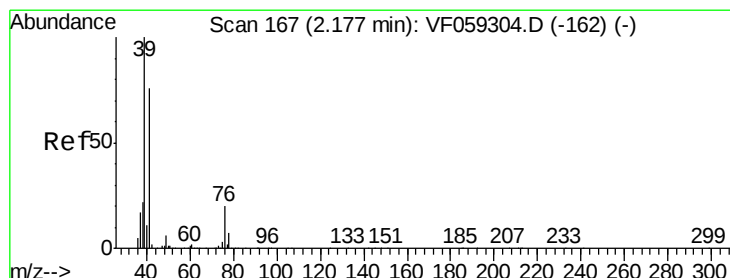
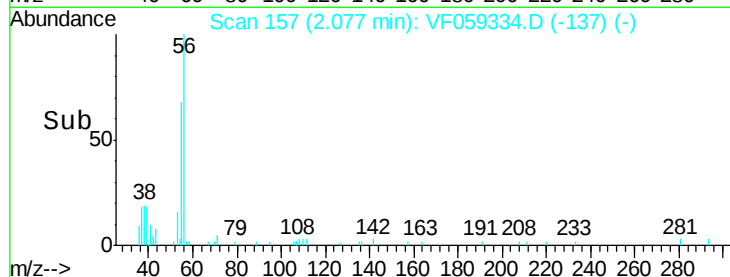
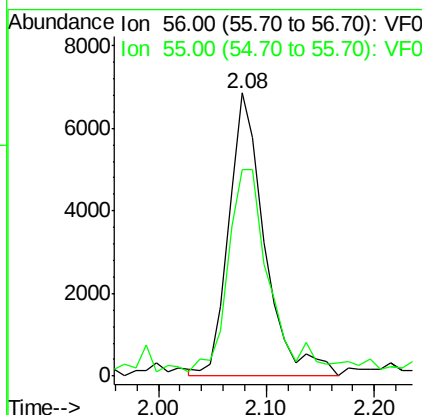
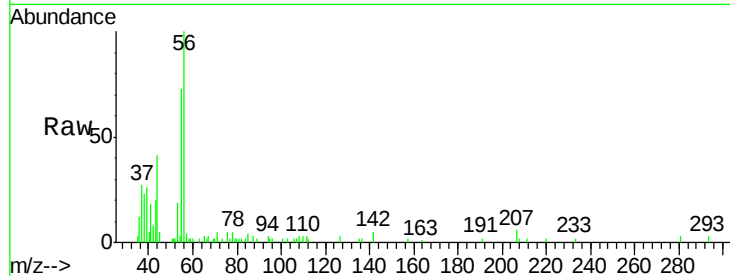
#13
Acrolein
Concen: 121.12 ug/l
RT: 2.08 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	56	Resp	15834
Ion Ratio	100	Lower	Upper
55	73.1	62.4	93.6

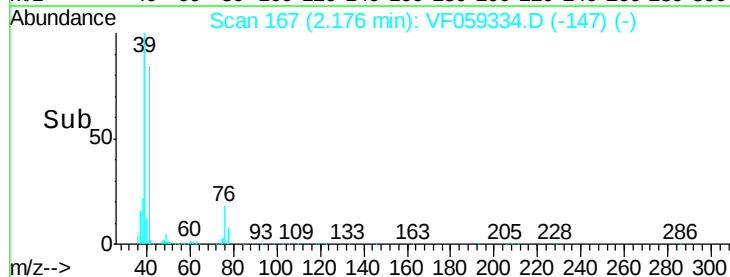
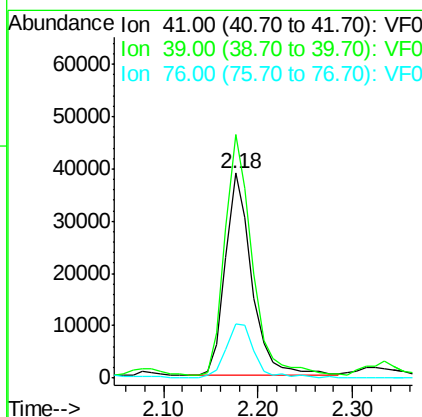
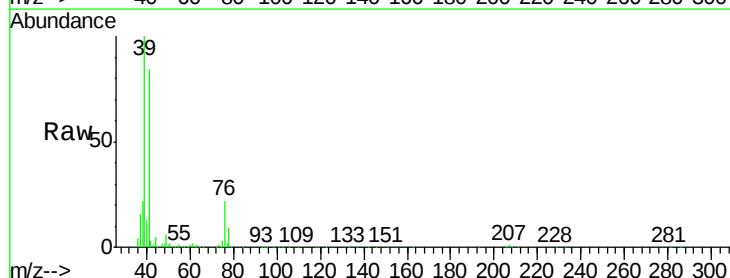
Manual Integrations
APPROVED

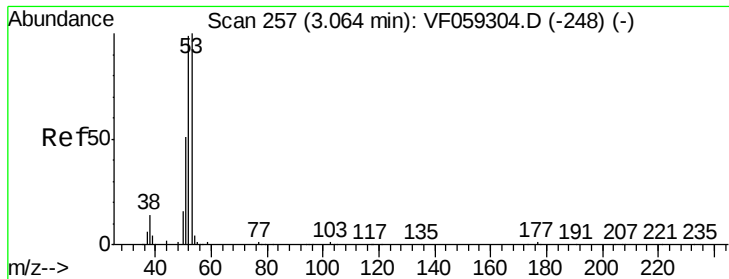
apatel
6/28/2018 11:09:50 AM



#14
Allyl chloride
Concen: 23.09 ug/l
RT: 2.18 min Scan# 167
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	41	Resp	75278
Ion Ratio	100	Lower	Upper
39	118.9	105.6	158.4
76	26.7	21.6	32.4





#15

Acrylonitrile

Concen: 126.22 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

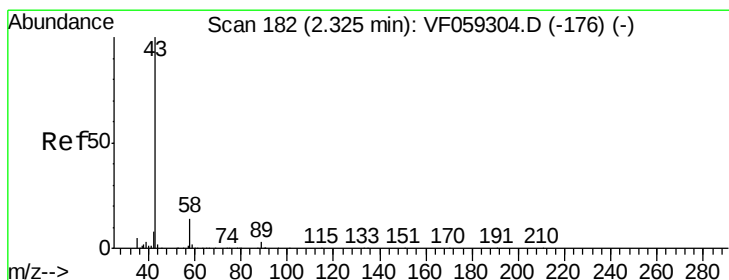
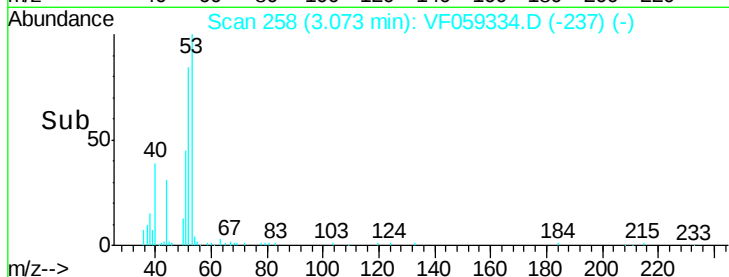
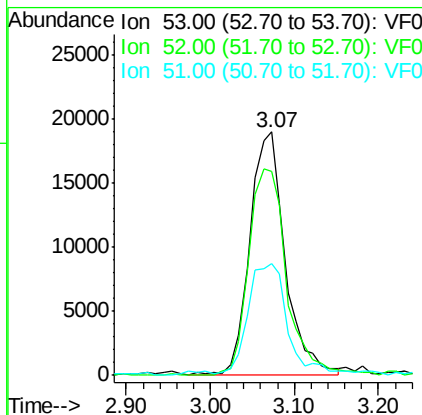
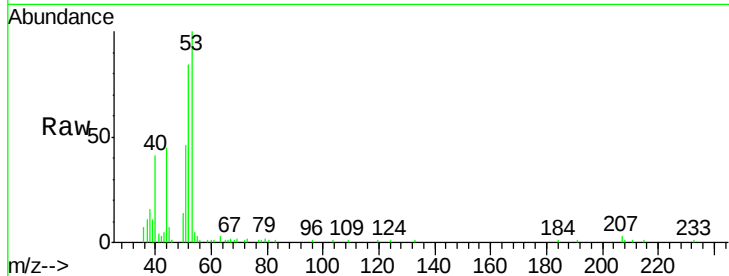
ClientSampleId :

VF0627SBS01

Tot Ion:	53	Resp:	56308
Ion	Ratio	Lower	Upper
53	100		
52	83.9	79.2	118.8
51	45.7	40.9	61.3

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#16

Acetone

Concen: 131.67 ug/l

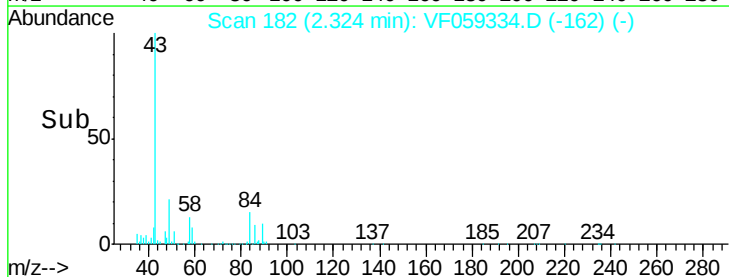
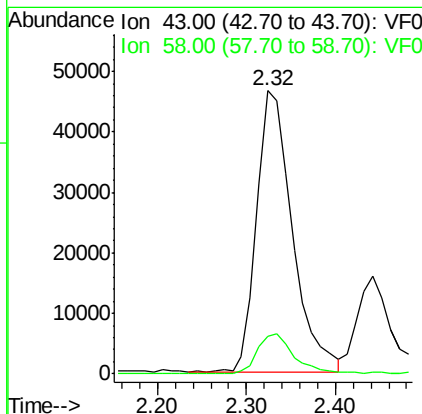
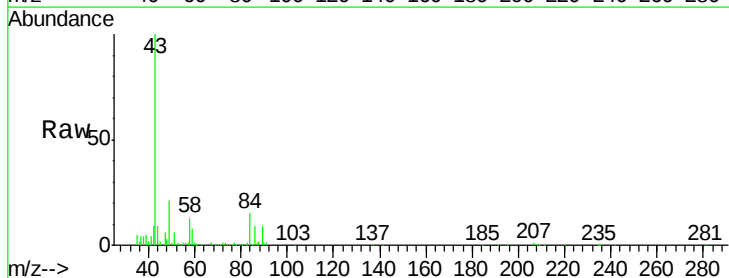
RT: 2.32 min Scan# 182

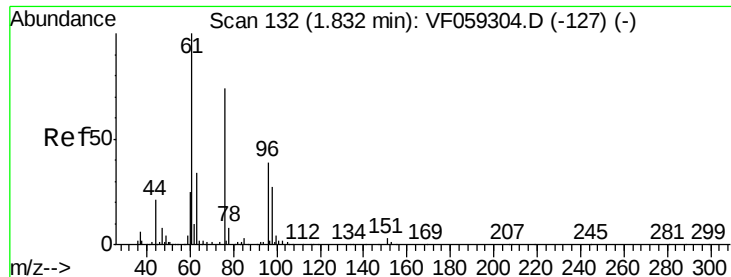
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	43	Resp:	129716
Ion	Ratio	Lower	Upper
43	100		
58	13.3	11.4	17.0





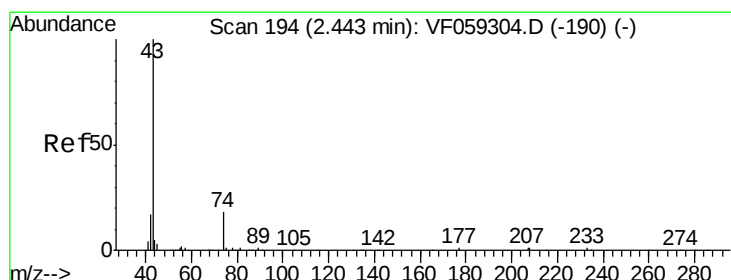
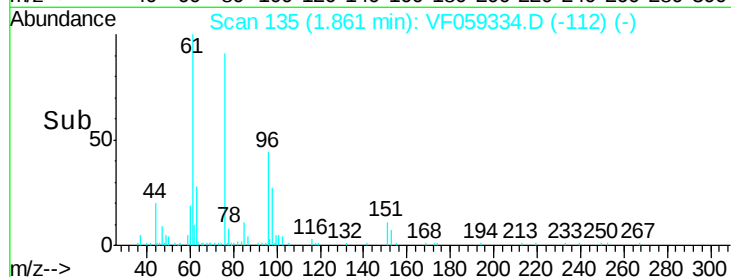
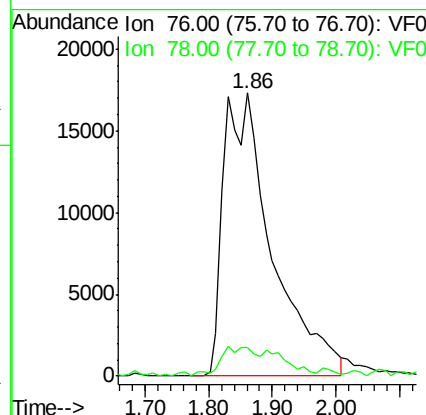
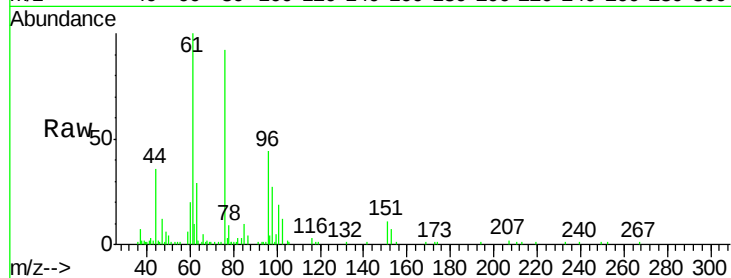
#17
Carbon Disulfide
Concen: 22.40 ug/l m
RT: 1.86 min Scan# 135
Delta R.T. 0.03 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.0	8.9	13.3

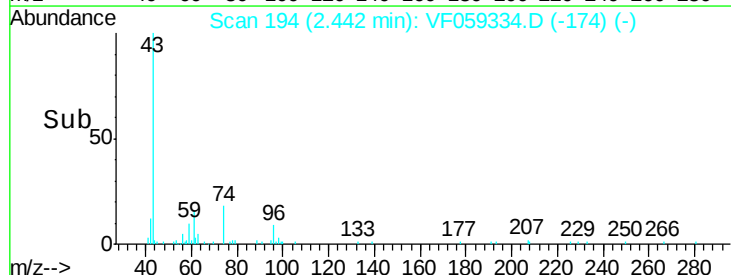
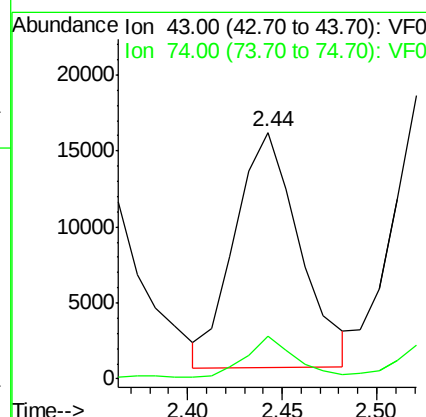
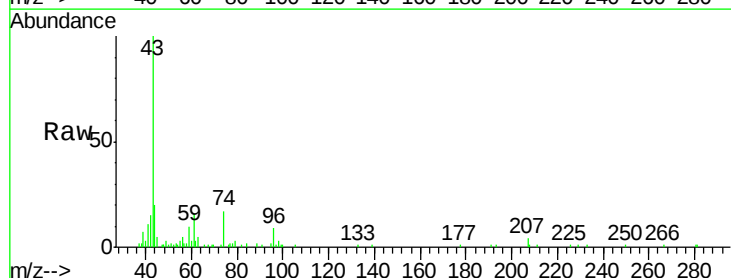
Manual Integrations
APPROVED

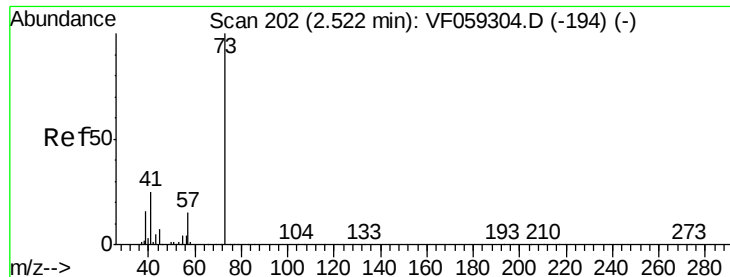
apatel
6/28/2018 11:09:50 AM



#18
Methyl Acetate
Concen: 20.87 ug/l
RT: 2.44 min Scan# 194
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	17.4	13.3	19.9





#19

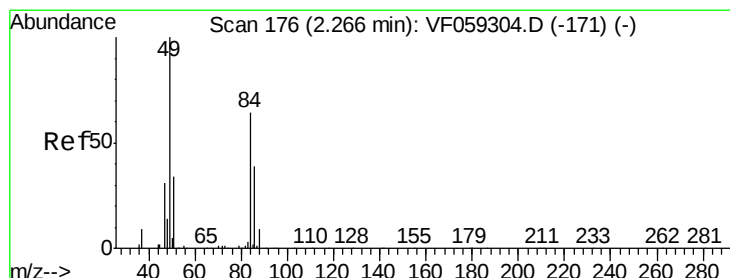
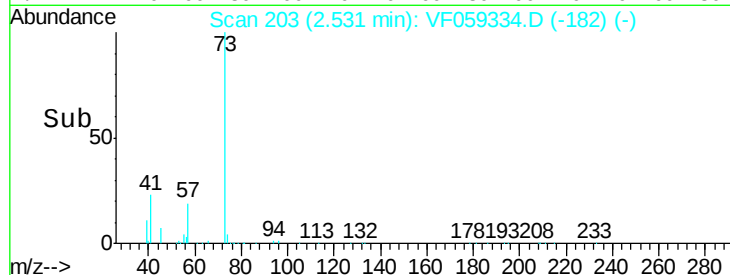
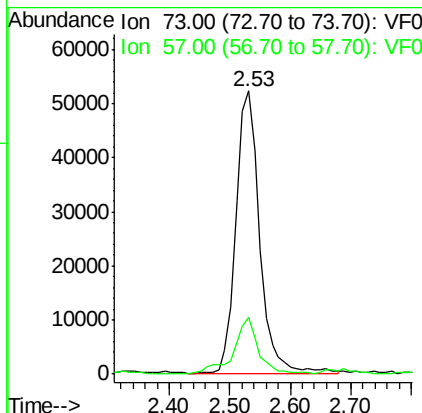
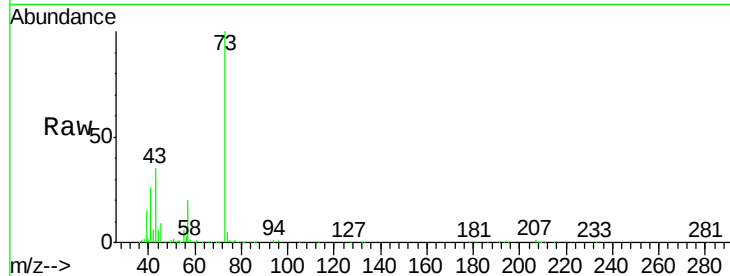
Methyl tert-butyl Ether
 Concen: 22.30 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. 0.01 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.9	12.3	18.5#

Manual Integrations
 APPROVED

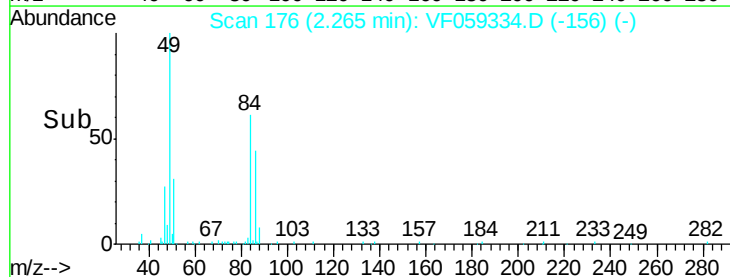
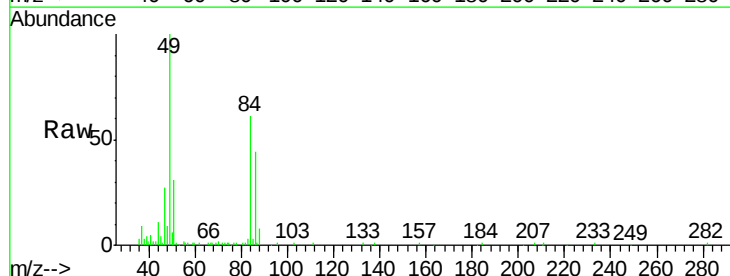
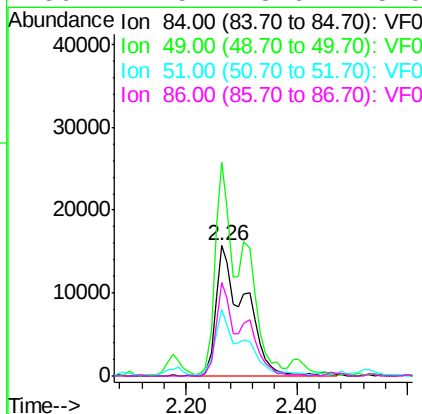
apatel
 6/28/2018 11:09:50 AM

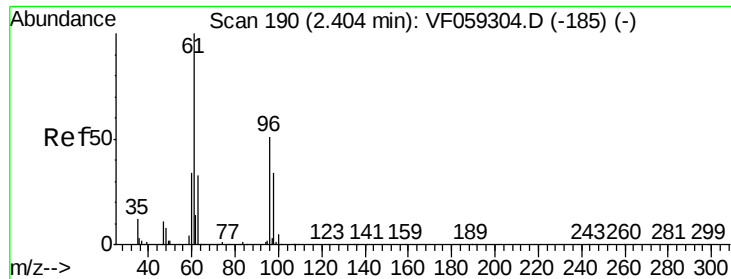


#20

Methylene Chloride
 Concen: 22.74 ug/l m
 RT: 2.26 min Scan# 176
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	163.9	126.5	189.7
51	51.2	42.9	64.3
86	71.5	48.6	73.0





#21

trans-1,2-Dichloroethene

Concen: 24.14 ug/l

RT: 2.40 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

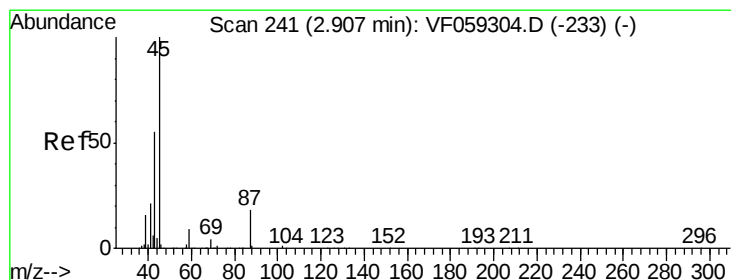
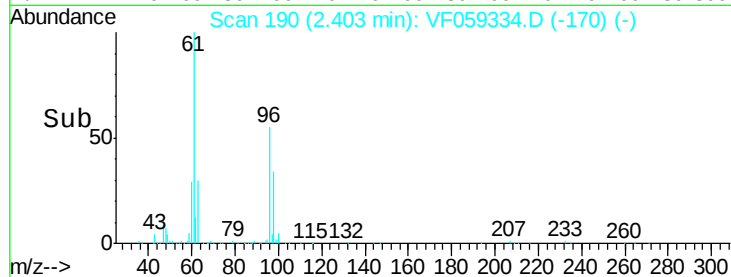
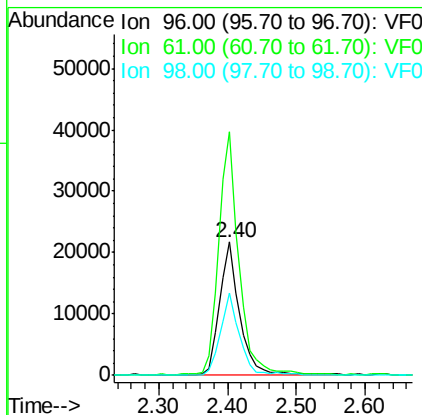
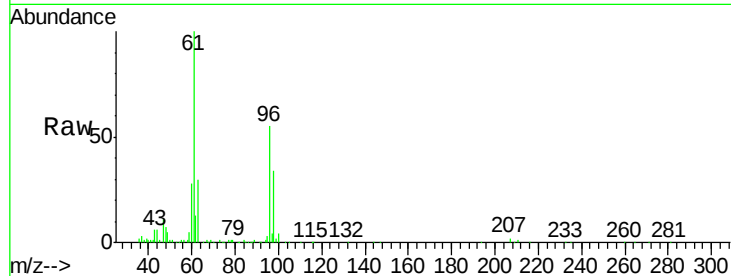
ClientSampleId :

VF0627SBS01

Tot Ion:	96	Resp:	44718
Ion	Ratio	Lower	Upper
96	100		
61	182.7	157.4	236.2
98	62.0	53.7	80.5

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#22

Diisopropyl ether

Concen: 22.89 ug/l

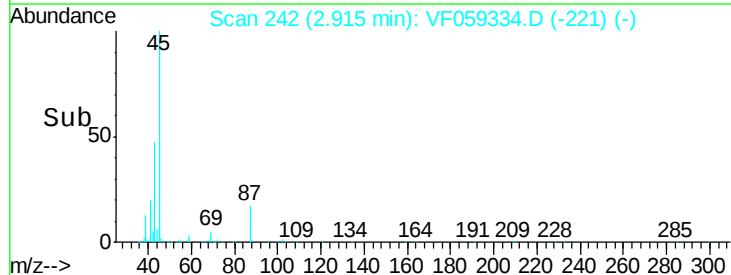
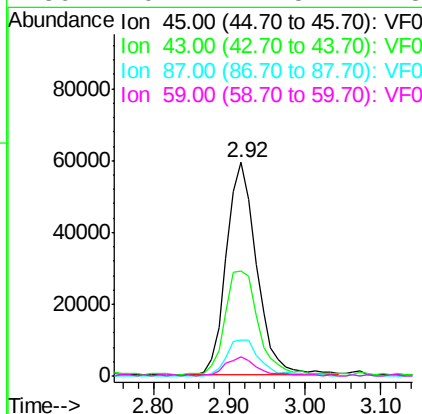
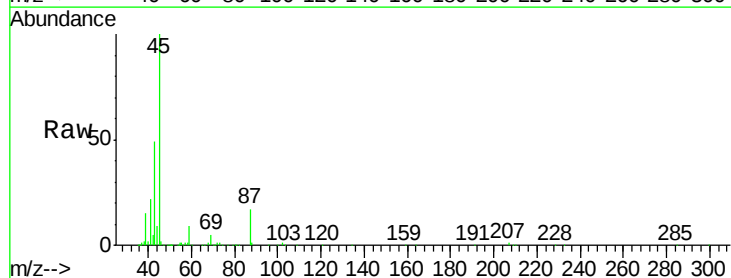
RT: 2.92 min Scan# 242

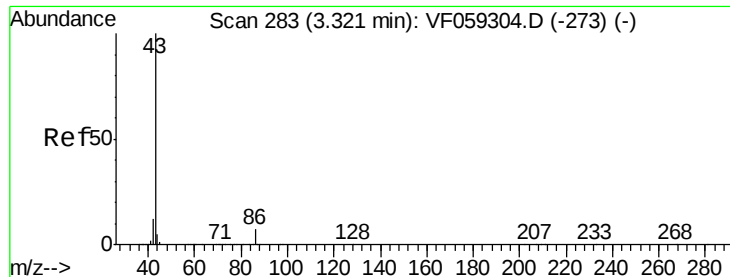
Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	45	Resp:	165213
Ion	Ratio	Lower	Upper
45	100		
43	49.4	44.6	66.8
87	16.7	14.3	21.5
59	9.1	7.5	11.3





#23

Vinyl Acetate

Concen: 120.35 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 43 Resp: 553213

Ion Ratio Lower Upper

43 100

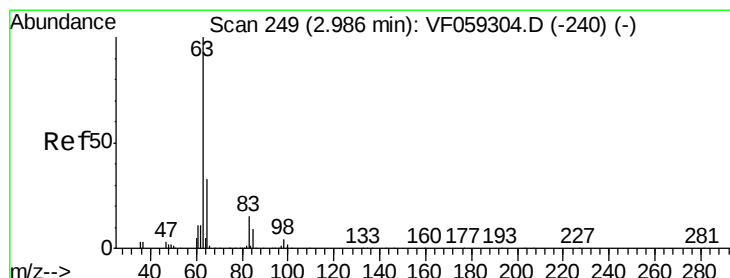
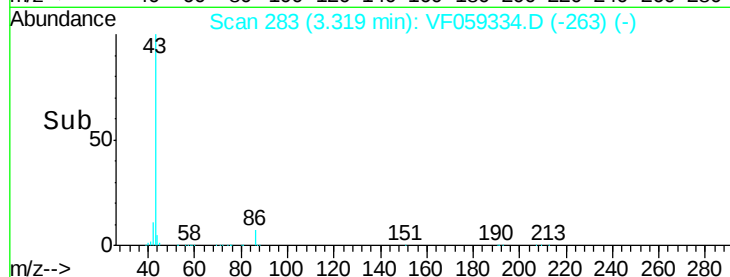
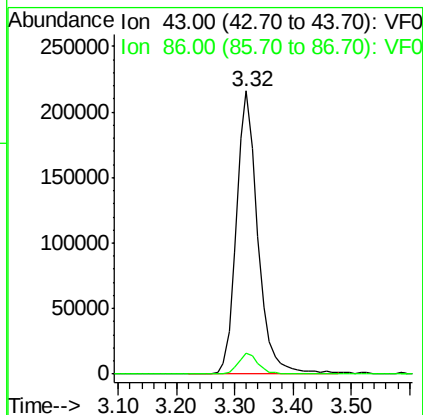
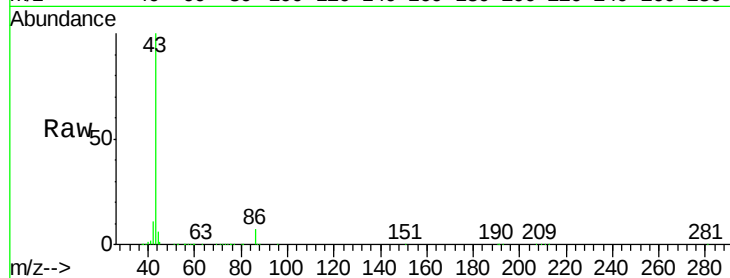
86 7.4 5.8 8.6

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#24

1,1-Dichloroethane

Concen: 22.06 ug/l

RT: 2.98 min Scan# 249

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

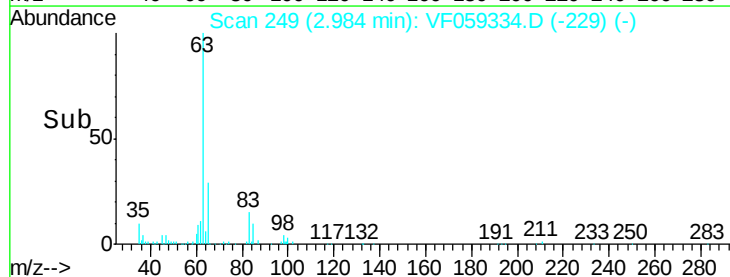
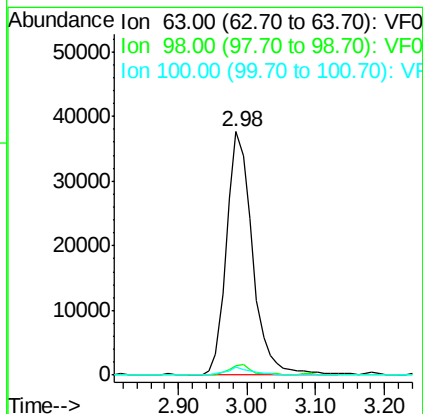
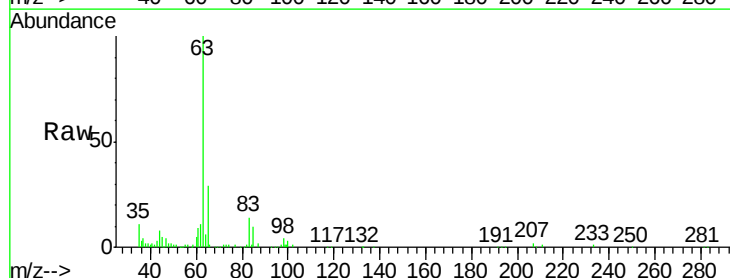
Tgt Ion: 63 Resp: 98723

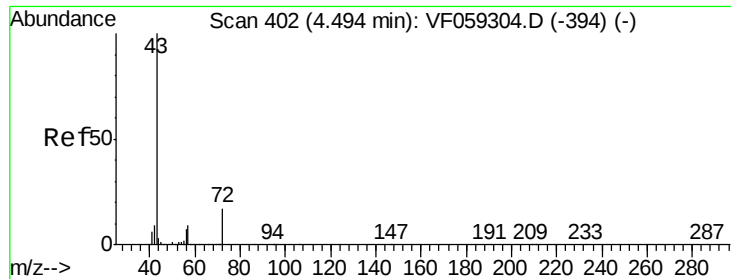
Ion Ratio Lower Upper

63 100

98 4.5 2.0 6.0

100 3.5 1.3 3.9





#25

2-Butanone

Concen: 128.33 ug/l

RT: 4.49 min Scan# 402

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 43 Resp: 149259

Ion Ratio Lower Upper

43 100

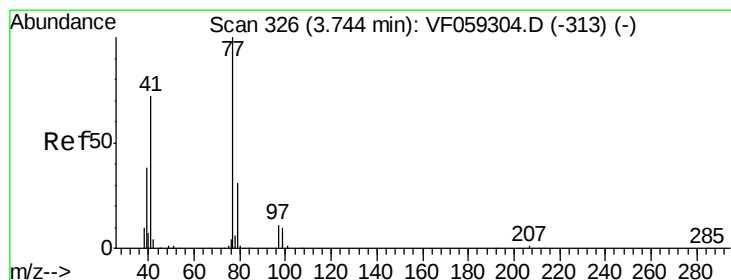
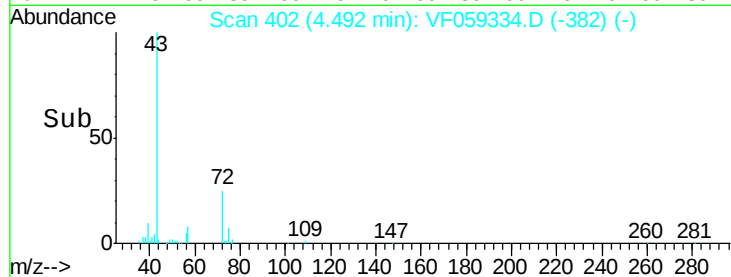
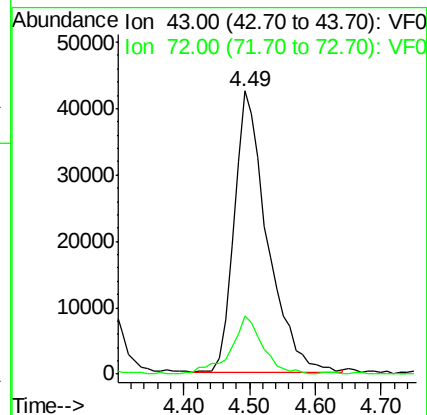
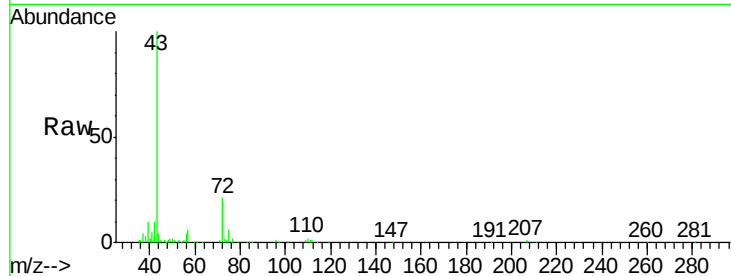
72 20.7 14.4 21.6

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#26

2,2-Dichloropropane

Concen: 23.84 ug/l

RT: 3.74 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF059334.D

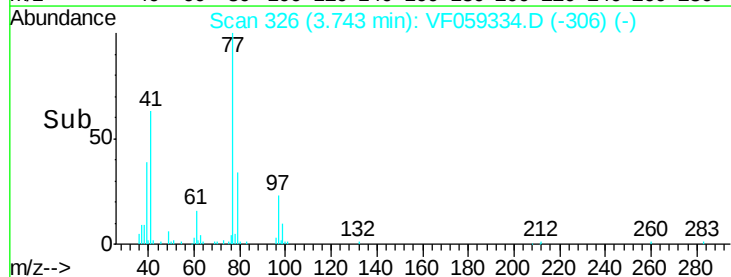
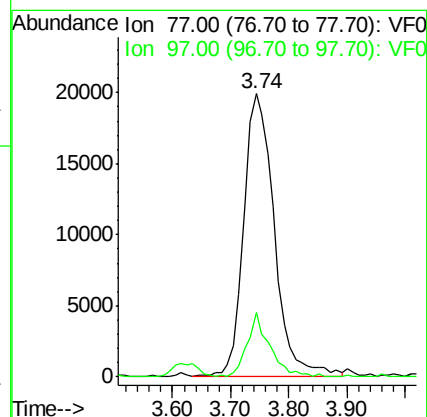
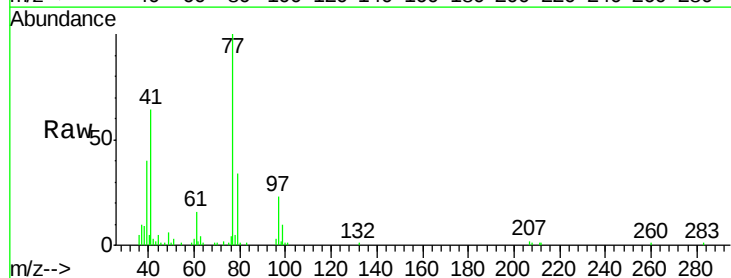
Acq: 27 Jun 2018 13:01

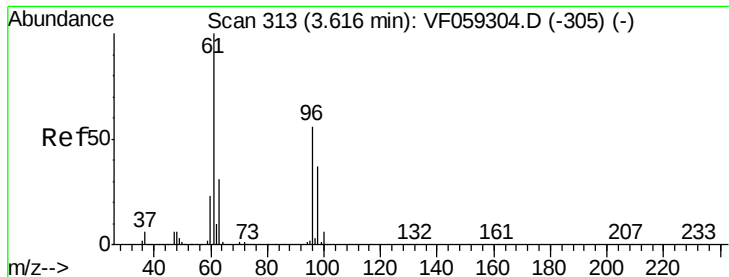
Tgt Ion: 77 Resp: 73574

Ion Ratio Lower Upper

77 100

97 22.6 8.0 23.8





#27

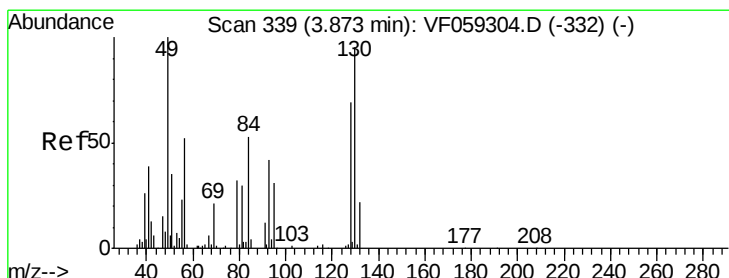
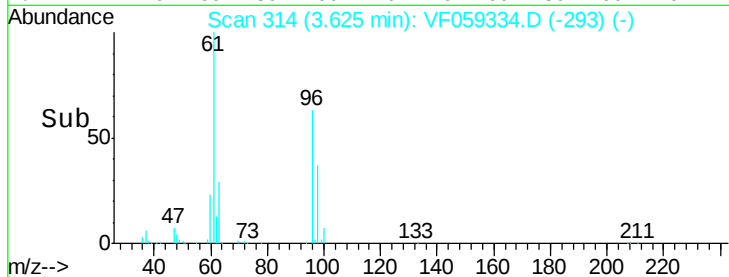
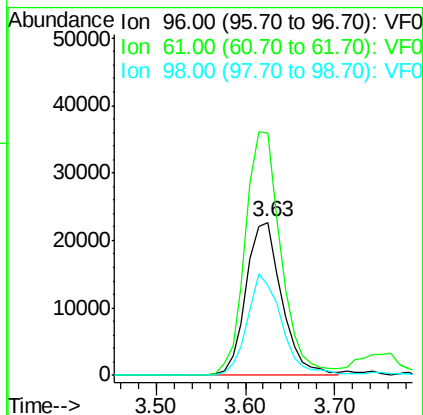
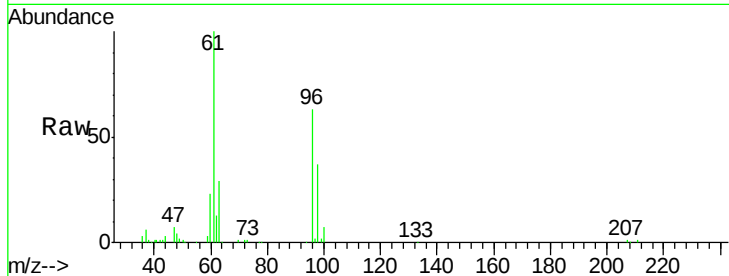
cis-1,2-Dichloroethene
Concen: 22.45 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	158.8	0.0	355.4
98	58.8	0.0	131.0

Manual Integrations
APPROVED

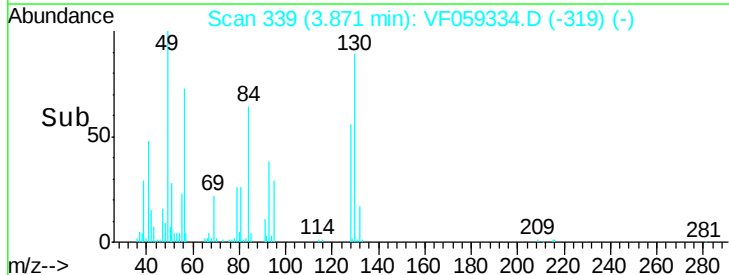
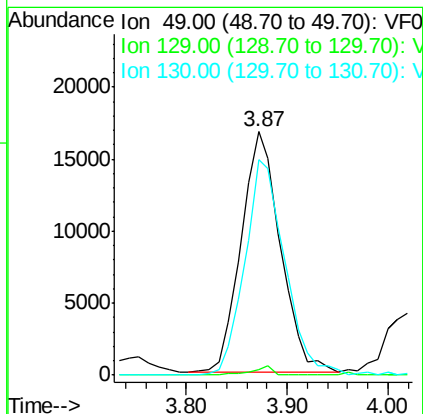
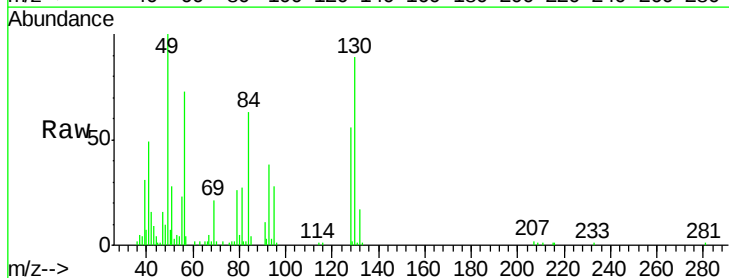
apatel
6/28/2018 11:09:50 AM

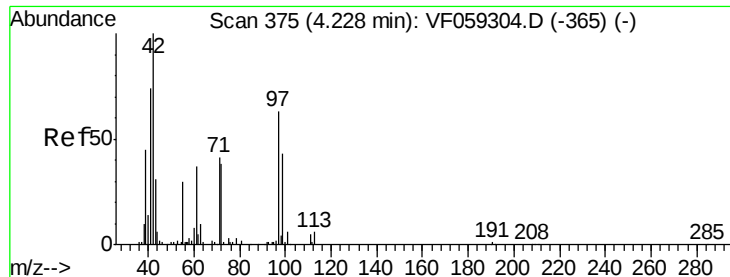


#28

Bromochloromethane
Concen: 24.36 ug/l
RT: 3.87 min Scan# 339
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	6.4
130	88.5	75.1	112.7





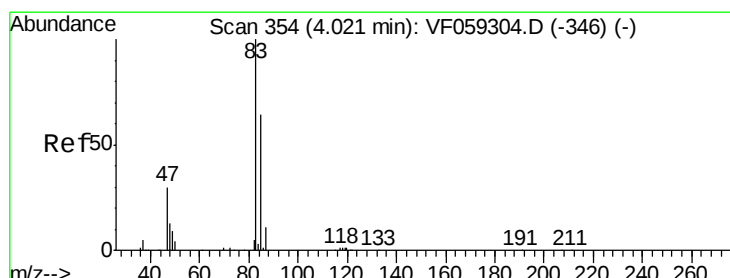
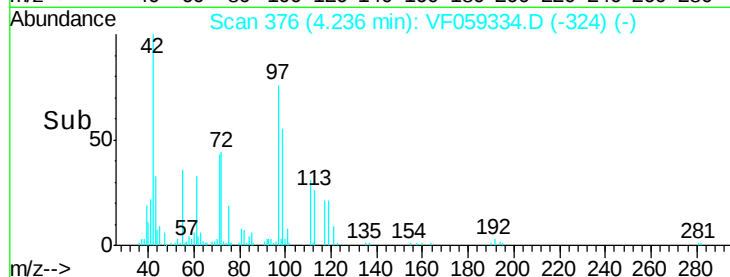
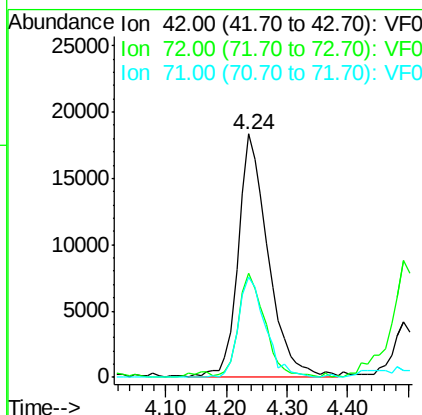
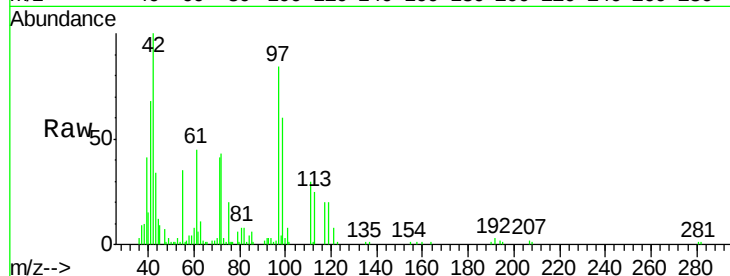
#29
Tetrahydrofuran
Concen: 124.90 ug/l
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	30.5	45.7
71	36.9	32.5	48.7

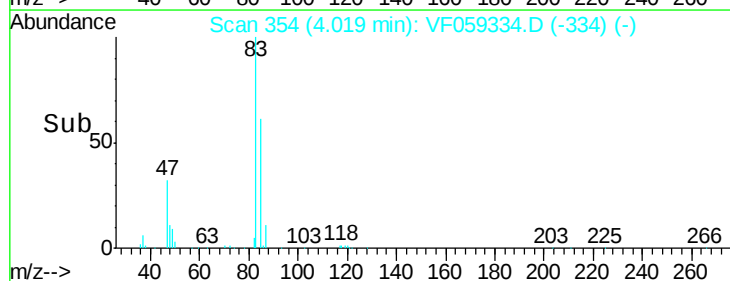
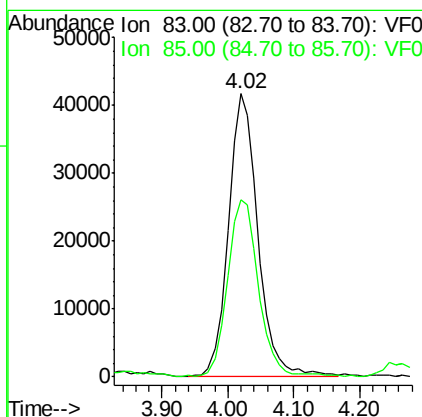
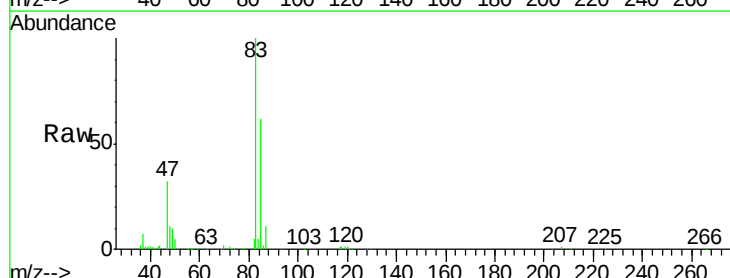
Manual Integrations
APPROVED

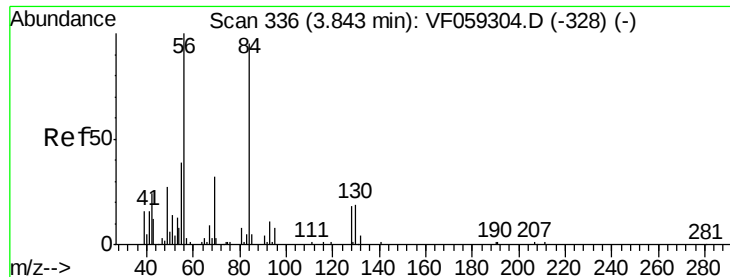
apatel
6/28/2018 11:09:50 AM



#30
Chloroform
Concen: 20.28 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.3	76.9





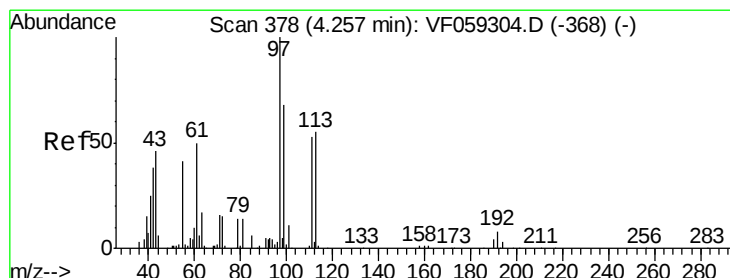
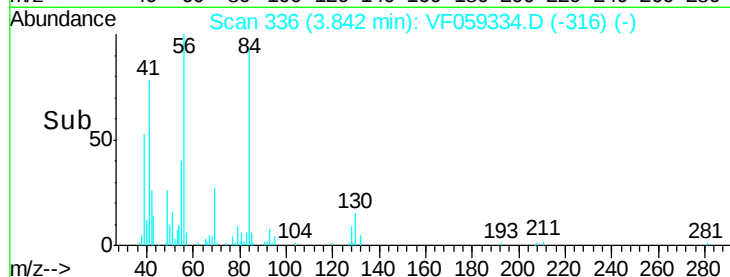
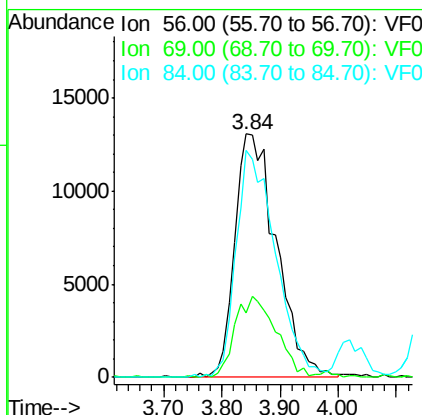
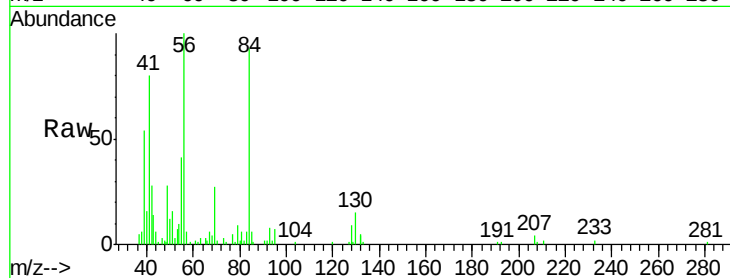
#31
Cyclohexane
Concen: 22.17 ug/l
RT: 3.84 min Scan# 336
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	26.7	25.8	38.8
84	93.2	75.6	113.4

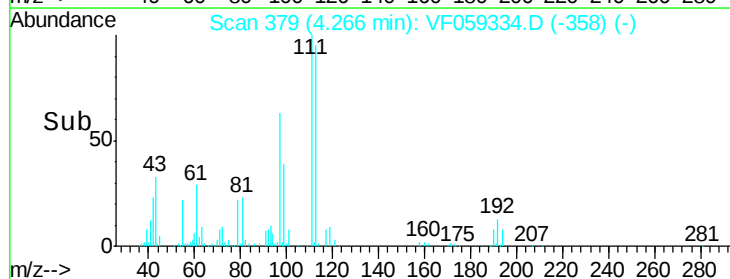
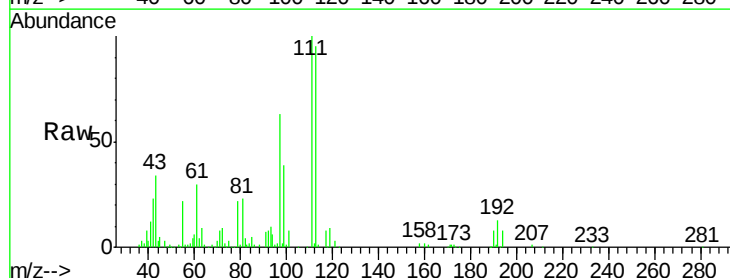
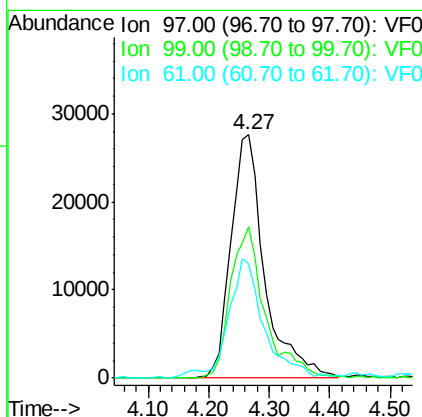
Manual Integrations
APPROVED

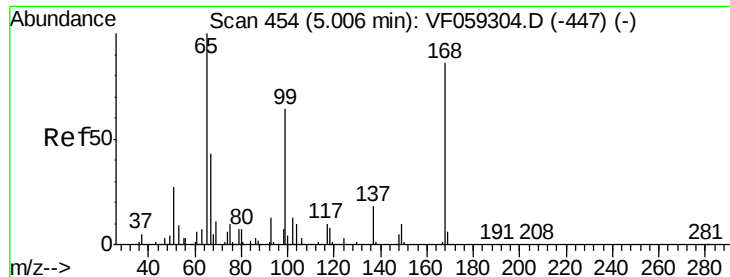
apatel
6/28/2018 11:09:50 AM



#32
1,1,1-Trichloroethane
Concen: 22.52 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.0	54.1	81.1
61	47.0	41.2	61.8





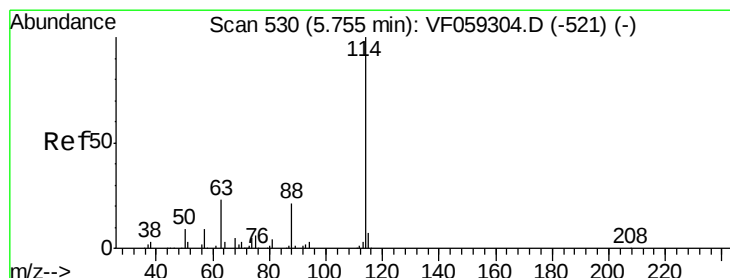
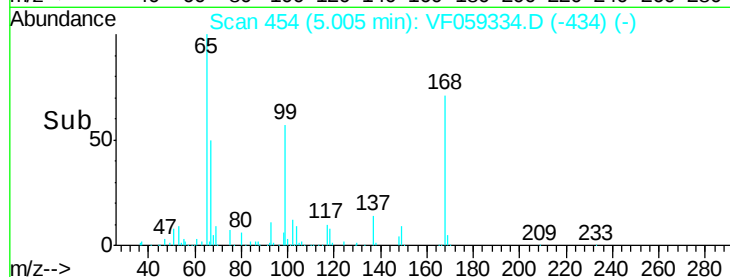
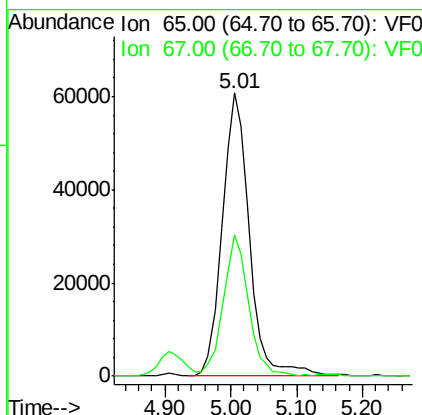
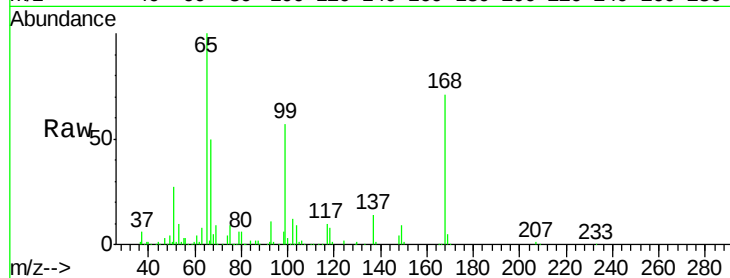
#33
 1,2-Dichloroethane-d4
 Concen: 45.56 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	173381		
67	49.9	0.0	96.8	

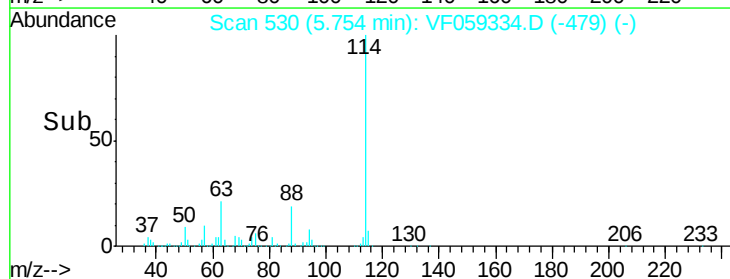
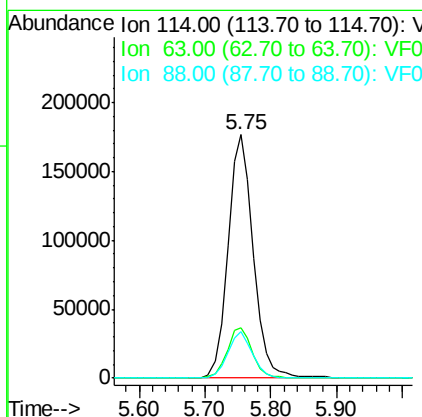
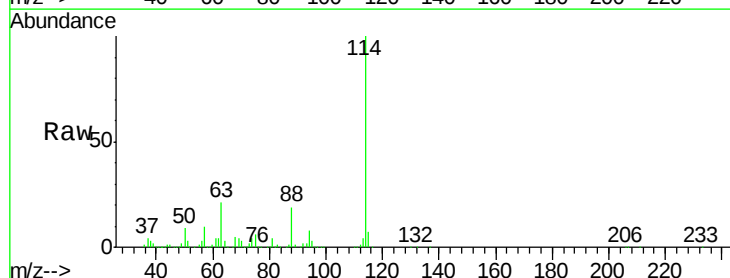
Manual Integrations
 APPROVED

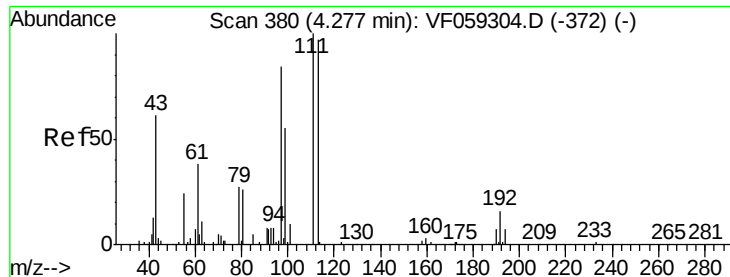
apatel
 6/28/2018 11:09:50 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	473608		
63	20.8	0.0	45.8	
88	19.3	0.0	41.2	





#35

Dibromofluoromethane

Concen: 45.07 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

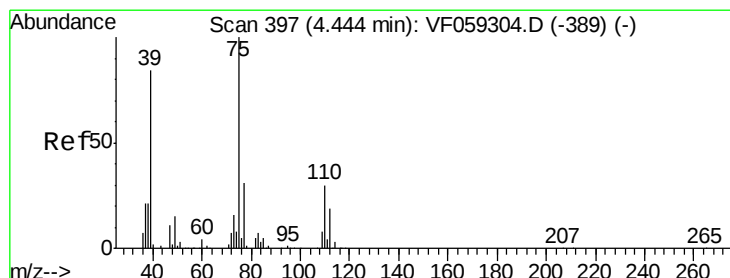
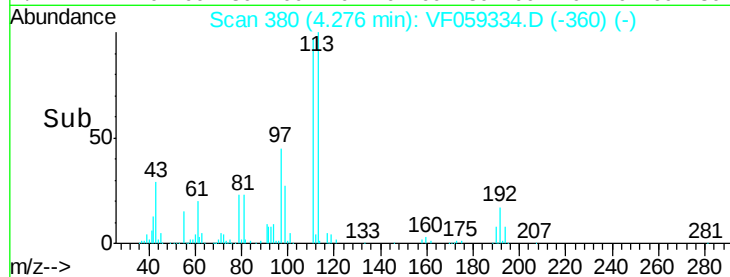
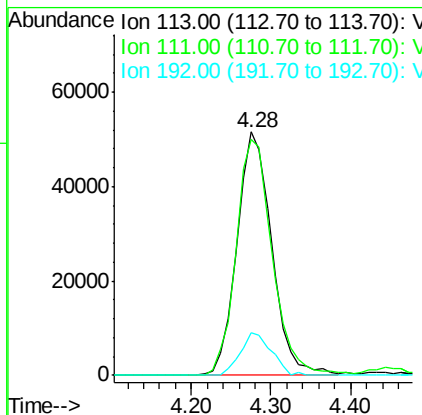
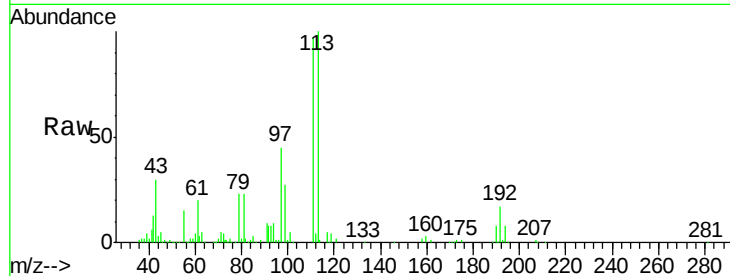
ClientSampleId :

VF0627SBS01

Tot Ion:	113	Resp:	155964
Ion Ratio	Lower	Upper	
113	100		
111	97.0	82.1	123.1
192	17.4	13.0	19.6

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#36

1,1-Dichloropropene

Concen: 21.47 ug/l

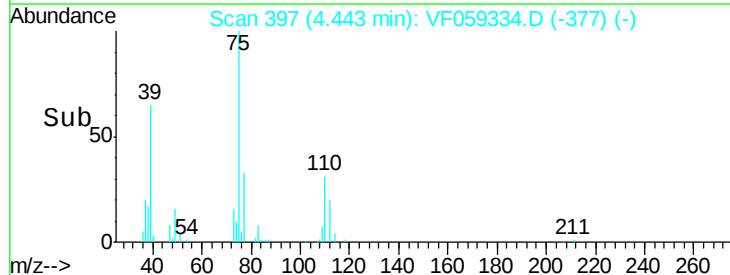
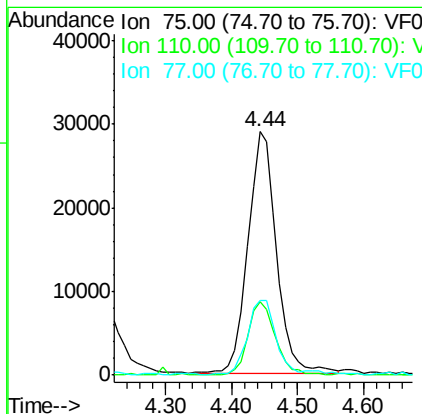
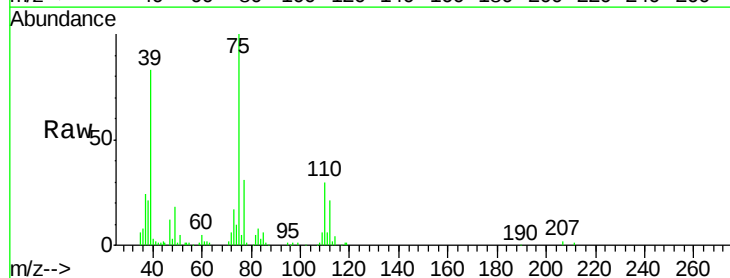
RT: 4.44 min Scan# 397

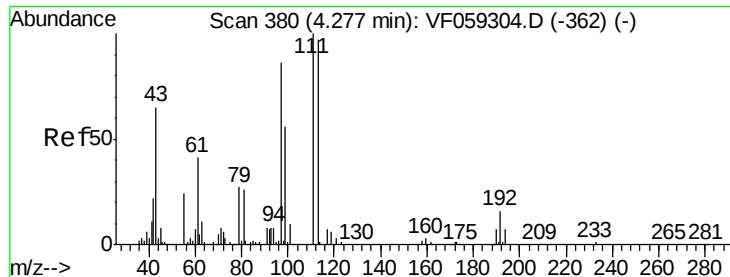
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	75	Resp:	88843
Ion Ratio	Lower	Upper	
75	100		
110	30.0	14.8	44.4
77	30.9	25.2	37.8





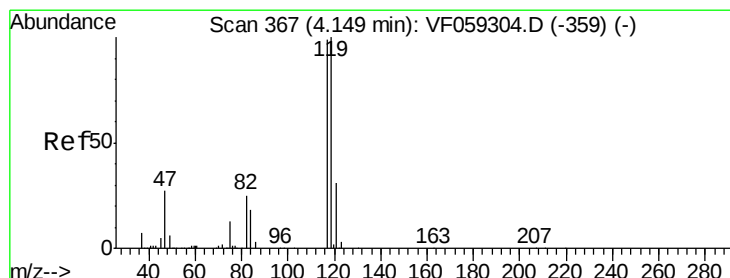
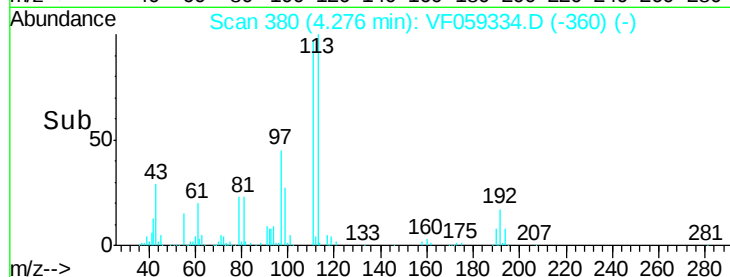
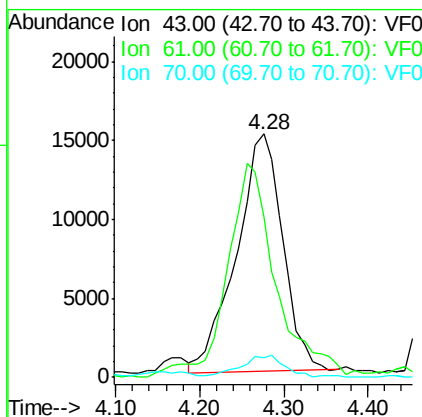
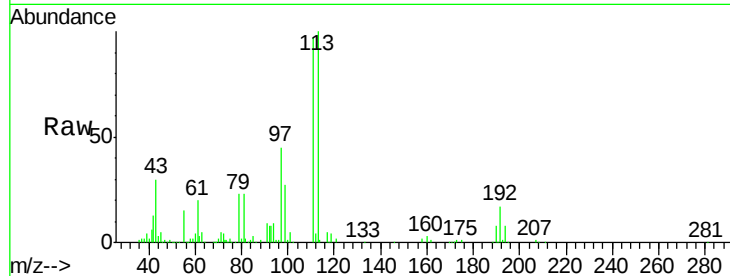
#37
Ethyl Acetate
Concen: 21.01 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	65.7	50.1	75.1
70	7.9	6.2	9.4

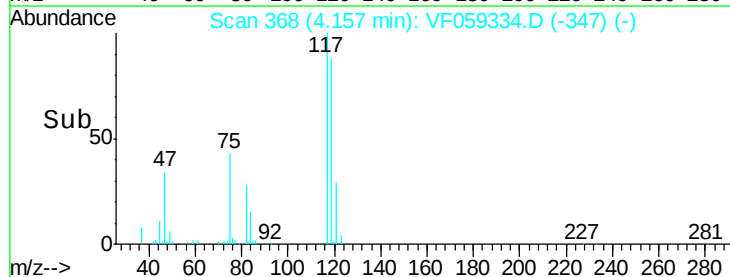
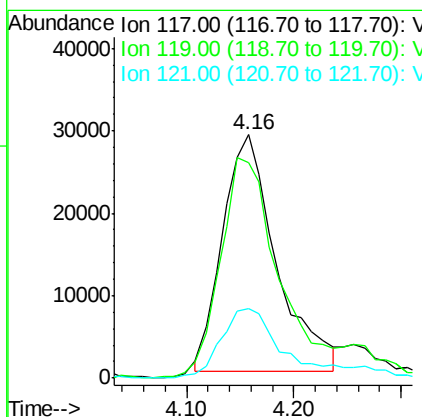
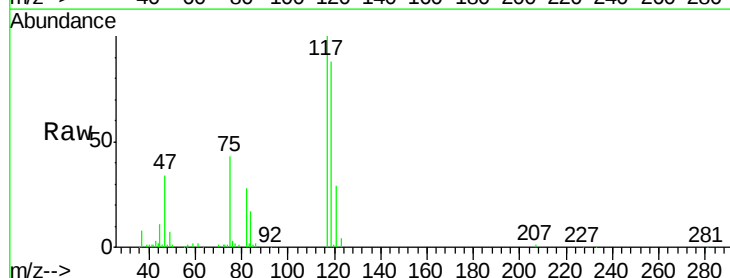
Manual Integrations
APPROVED

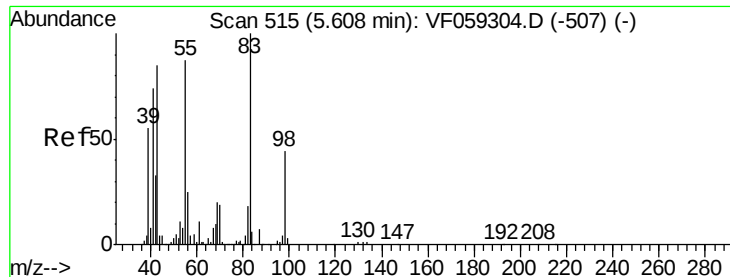
apatel
6/28/2018 11:09:50 AM



#38
Carbon Tetrachloride
Concen: 19.24 ug/l m
RT: 4.16 min Scan# 368
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.4	81.0	121.4
121	28.7	24.7	37.1





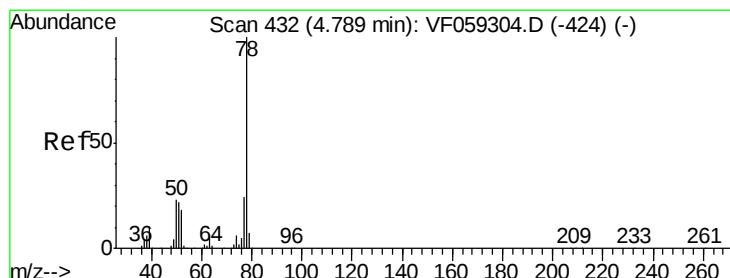
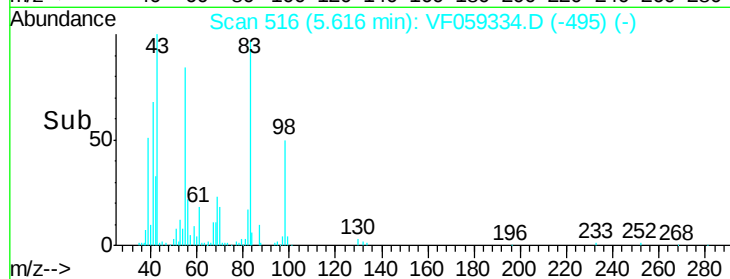
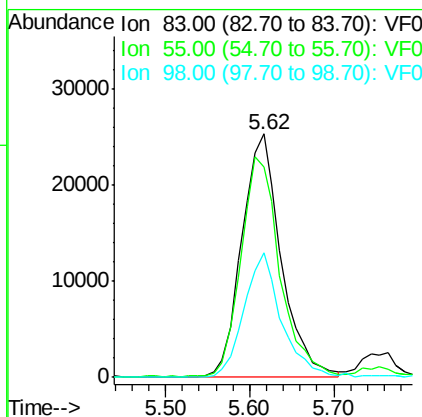
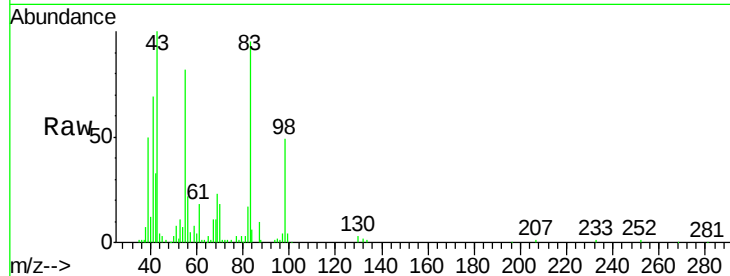
#39
Methylcyclohexane
Concen: 22.60 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.4	69.2	103.8
98	51.1	35.0	52.6

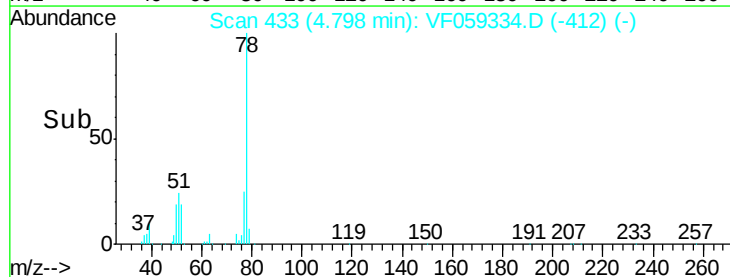
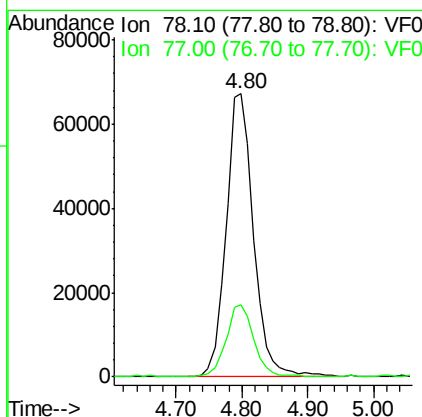
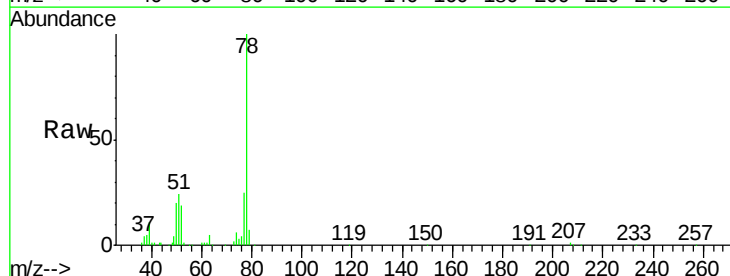
Manual Integrations
APPROVED

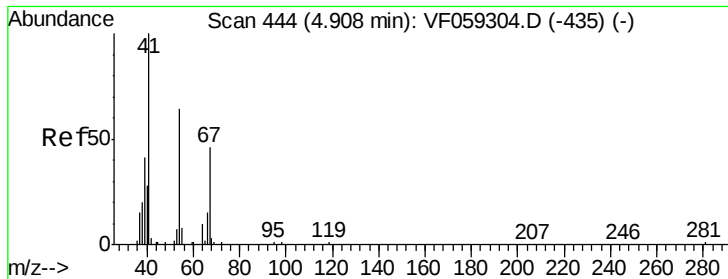
apatel
6/28/2018 11:09:50 AM



#40
Benzene
Concen: 21.40 ug/l
RT: 4.80 min Scan# 433
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.3	19.6	29.4





#41

Methacrylonitrile

Concen: 19.69 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 41 Resp: 27792

Ion Ratio Lower Upper

41 100

39 76.0 50.0 75.0#

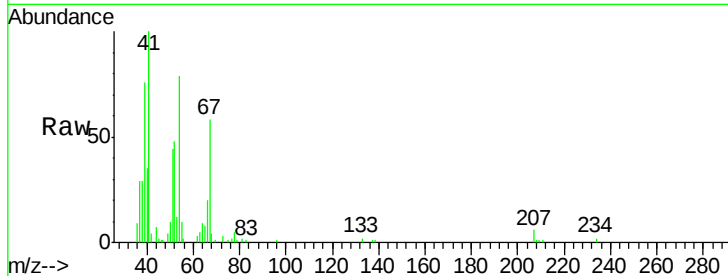
67 58.3 37.0 55.6#

52 47.8 37.1 55.7

Manual Integrations
APPROVED

apatel

6/28/2018 11:09:50 AM

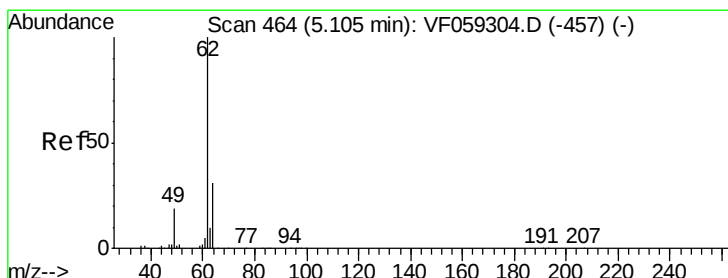
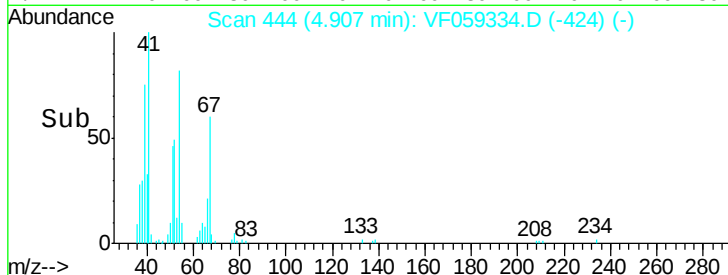
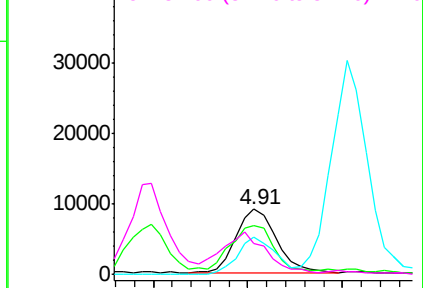


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 18.90 ug/l

RT: 5.10 min Scan# 464

Delta R.T. -0.00 min

Lab File: VF059334.D

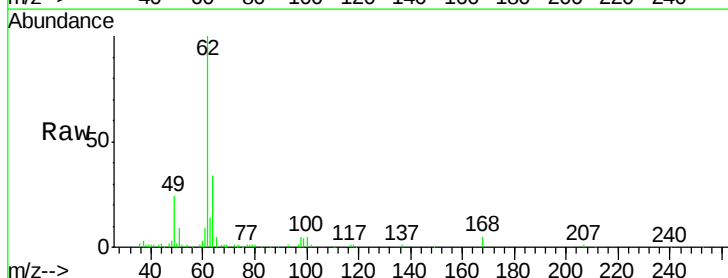
Acq: 27 Jun 2018 13:01

Tgt Ion: 62 Resp: 101322

Ion Ratio Lower Upper

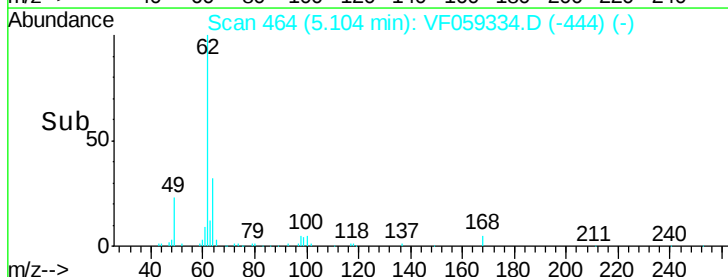
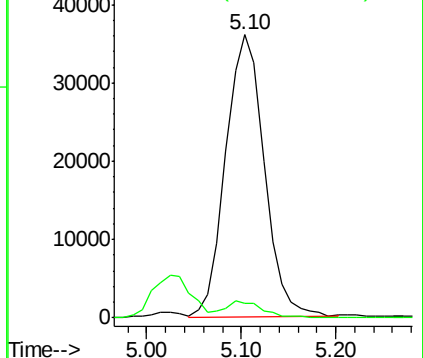
62 100

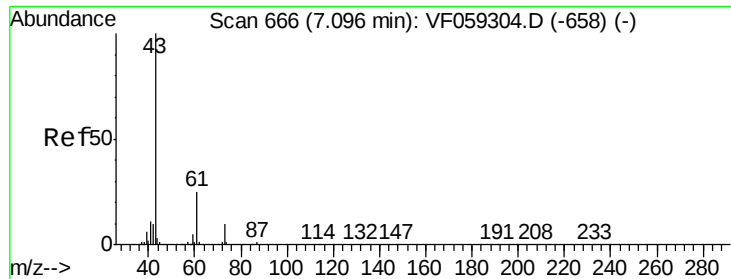
98 5.2 0.0 11.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





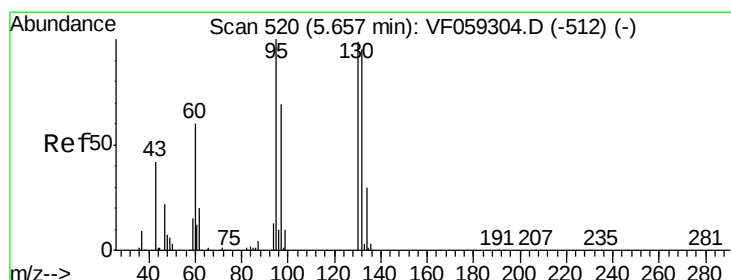
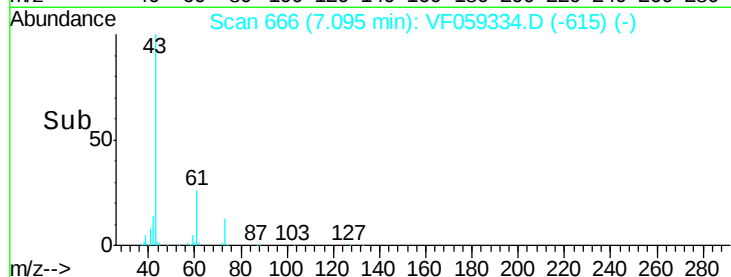
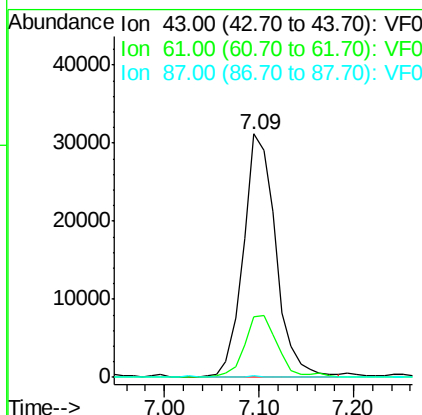
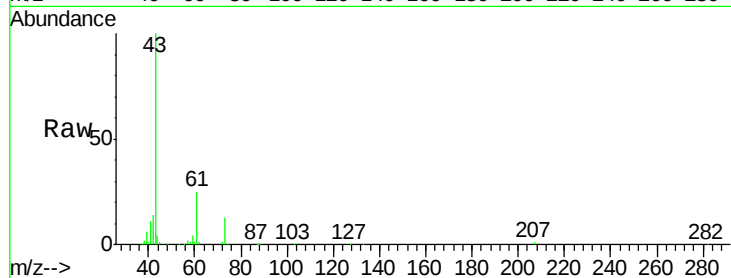
#43
Isopropyl Acetate
Concen: 21.62 ug/l
RT: 7.09 min Scan# 666
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	24.7	19.7	29.5
87	0.8	0.5	0.7

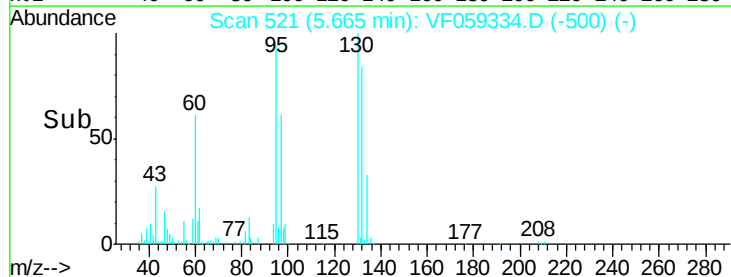
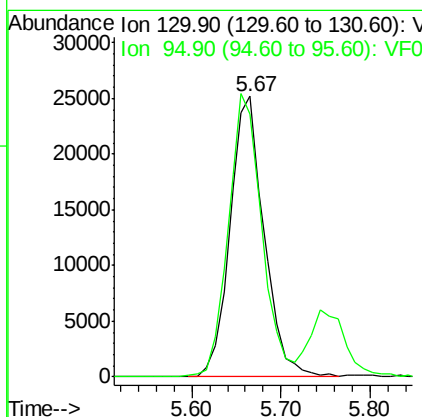
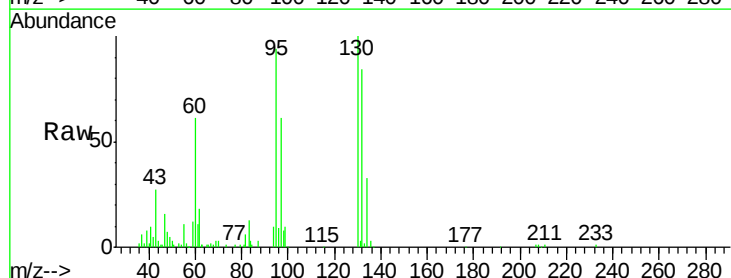
Manual Integrations
APPROVED

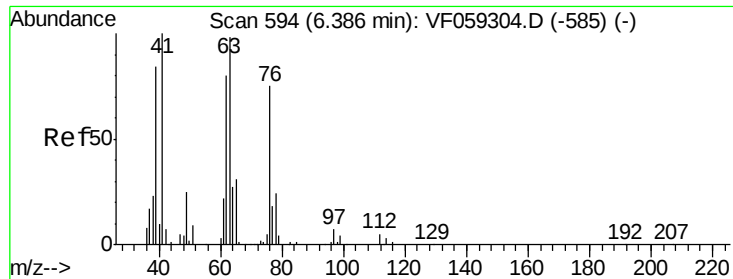
apatel
6/28/2018 11:09:50 AM



#44
Trichloroethene
Concen: 21.31 ug/l
RT: 5.67 min Scan# 521
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	202.4





#45

1,2-Dichloropropane

Concen: 21.34 ug/l

RT: 6.39 min Scan# 594

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 63 Resp: 55930

Ion Ratio Lower Upper

63 100

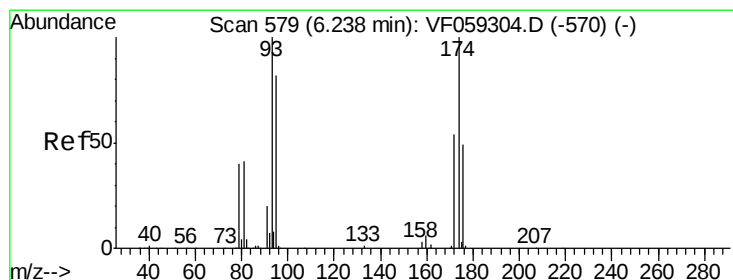
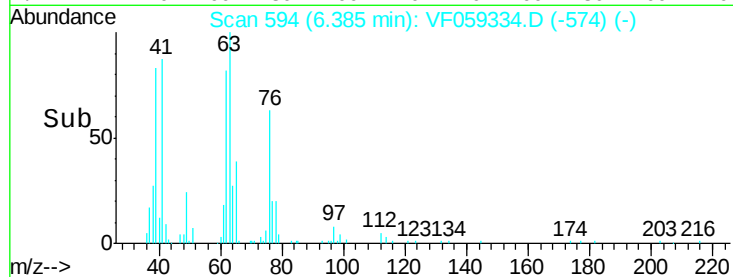
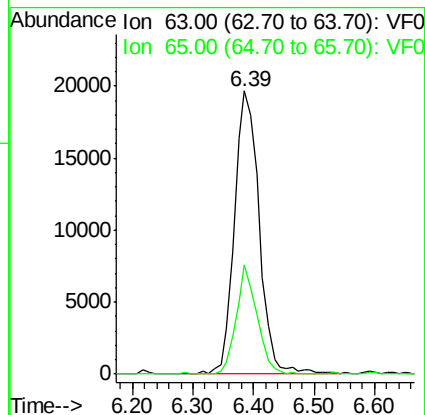
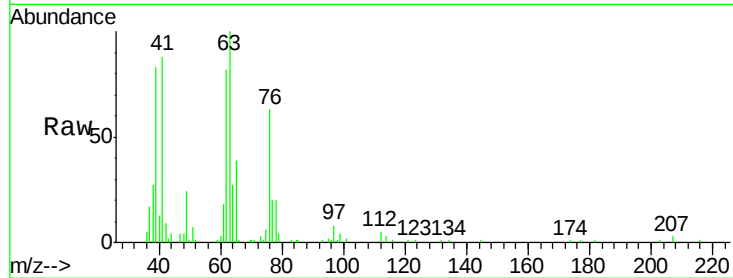
65 38.7 25.3 37.9#

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#46

Dibromomethane

Concen: 20.12 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

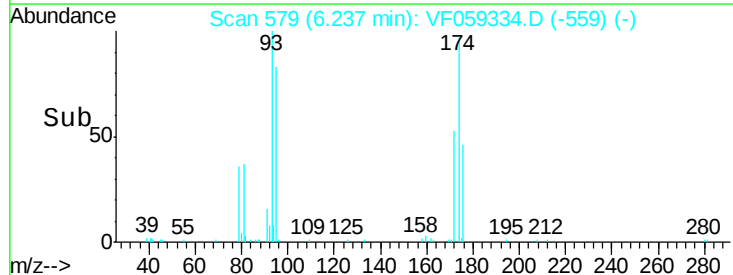
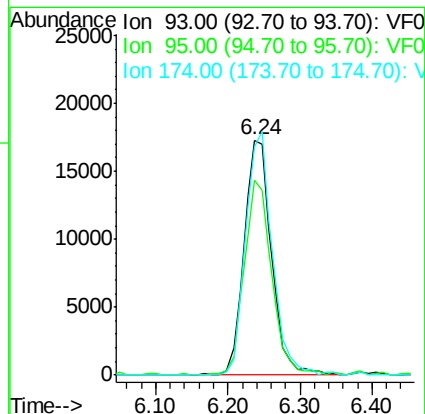
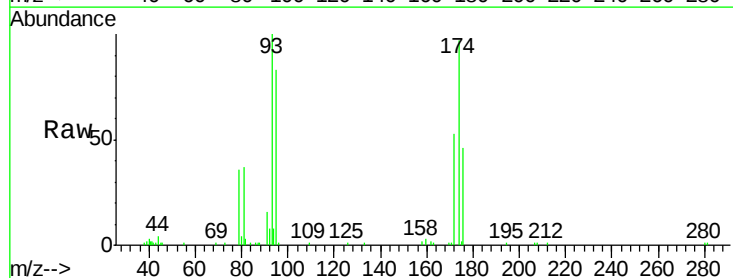
Tgt Ion: 93 Resp: 45778

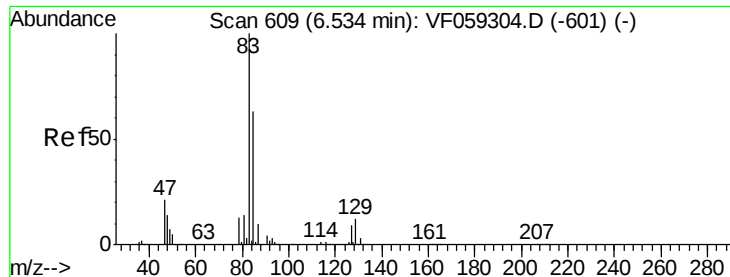
Ion Ratio Lower Upper

93 100

95 83.4 65.6 98.4

174 97.1 80.0 120.0





#47

Bromodichloromethane

Concen: 17.72 ug/l

RT: 6.53 min Scan# 609

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

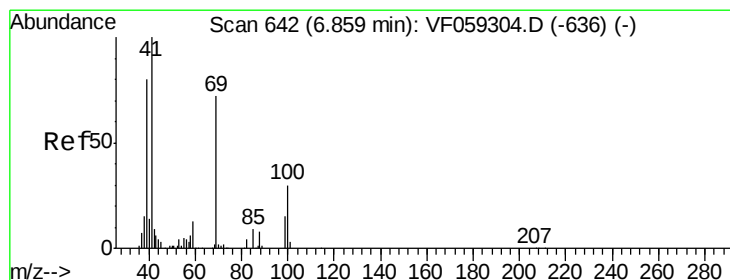
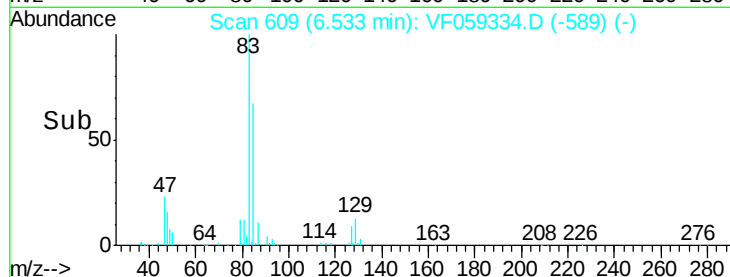
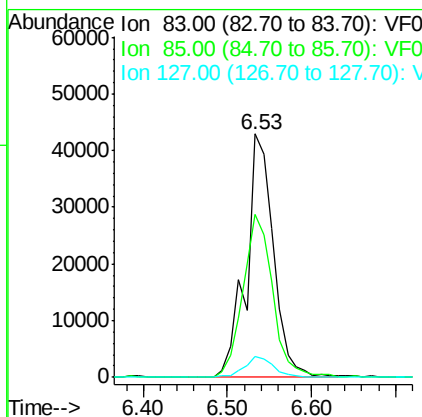
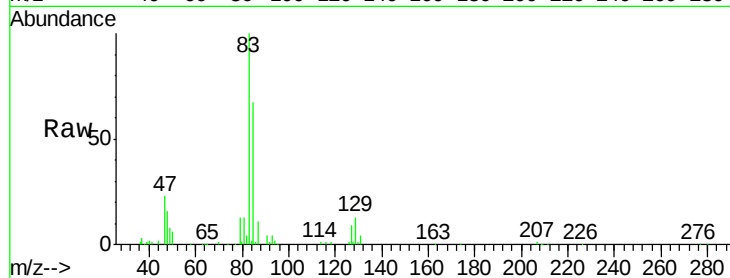
ClientSampleId :

VF0627SBS01

Tot Ion:	83	Resp:	97571
Ion	Ratio	Lower	Upper
83	100		
85	67.1	50.2	75.2
127	8.8	7.0	10.4

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#48

Methyl methacrylate

Concen: 21.63 ug/l

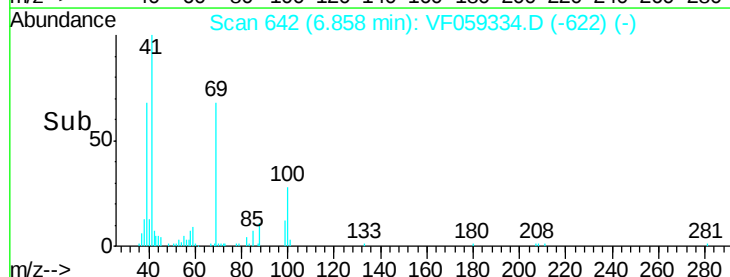
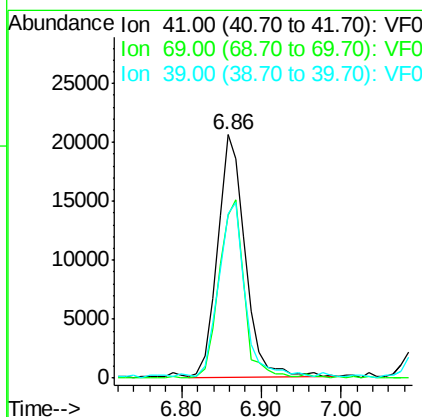
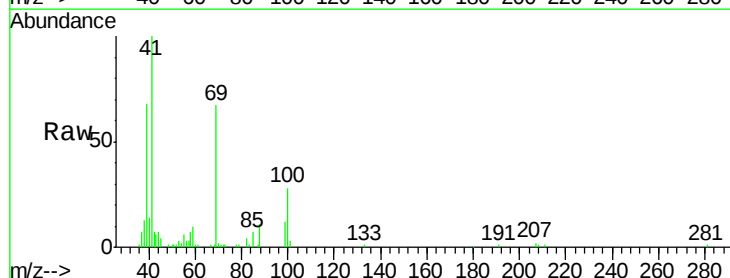
RT: 6.86 min Scan# 642

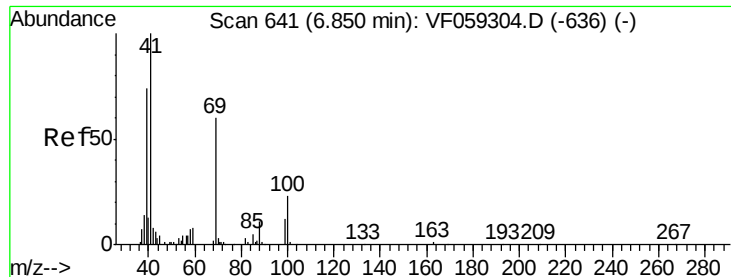
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	41	Resp:	49964
Ion	Ratio	Lower	Upper
41	100		
69	67.1	57.3	85.9
39	67.7	64.4	96.6





#49

1,4-Dioxane

Concen: 479.07 ug/l

RT: 6.86 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

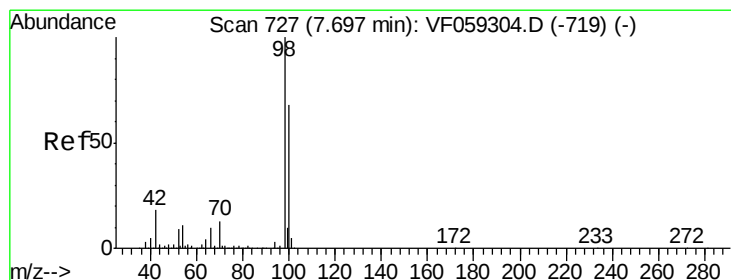
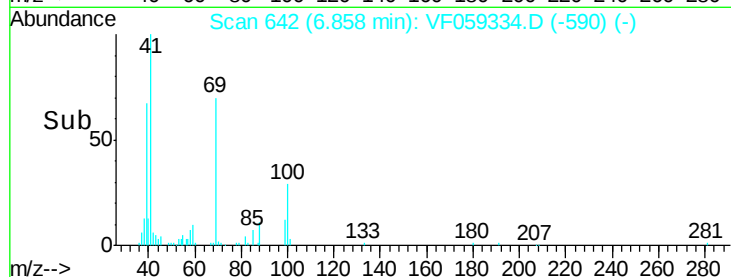
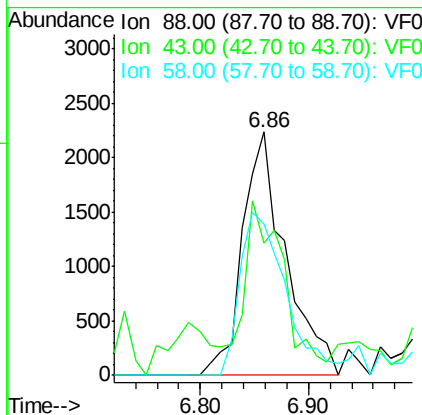
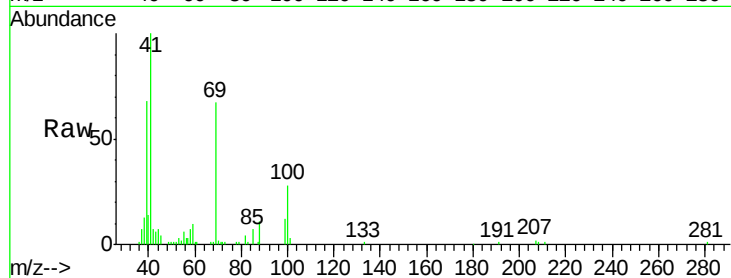
ClientSampleId :

VF0627SBS01

Tot Ion:	88	Resp:	6177
Ion	Ratio	Lower	Upper
88	100		
43	54.2	50.6	75.8
58	62.2	46.6	69.8

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#50

Toluene-d8

Concen: 42.35 ug/l

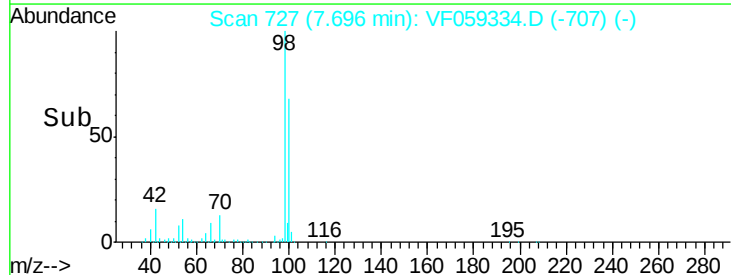
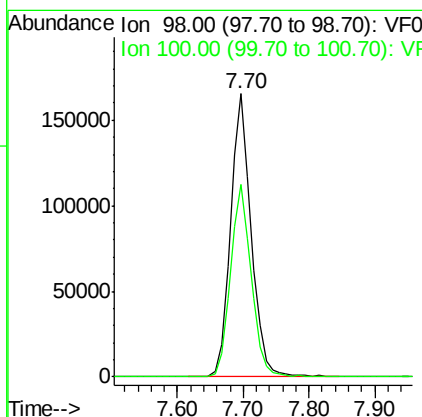
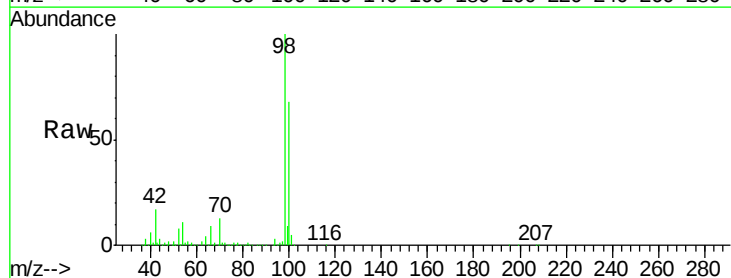
RT: 7.70 min Scan# 727

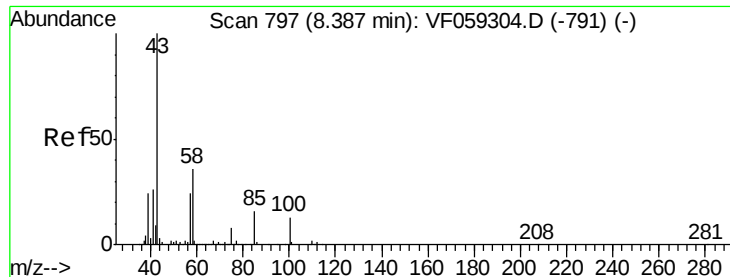
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	98	Resp:	362881
Ion	Ratio	Lower	Upper
98	100		
100	67.8	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 111.65 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 43 Resp: 285047

Ion Ratio Lower Upper

43 100

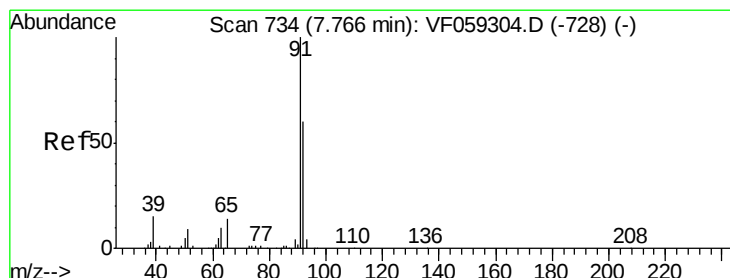
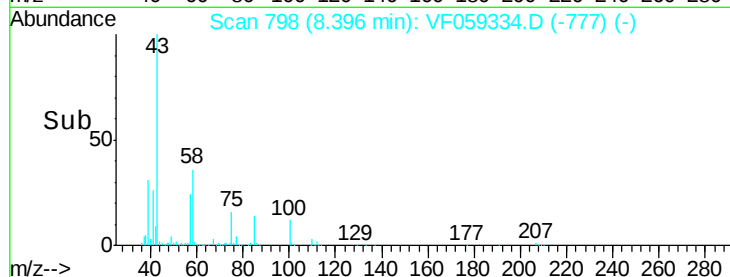
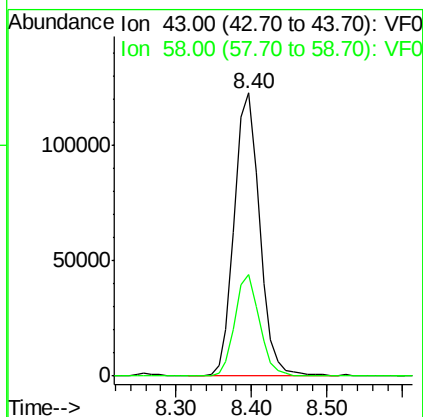
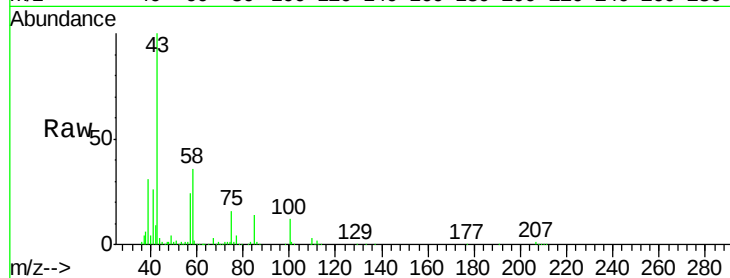
58 35.8 28.4 42.6

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#52

Toluene

Concen: 18.95 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059334.D

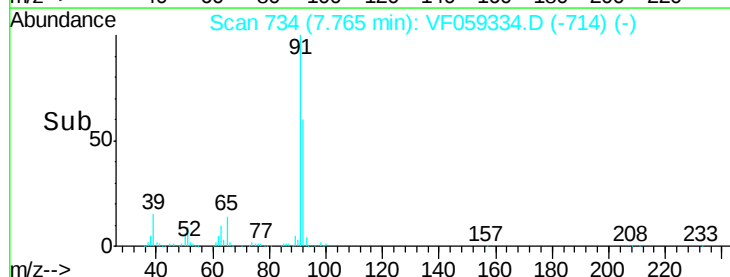
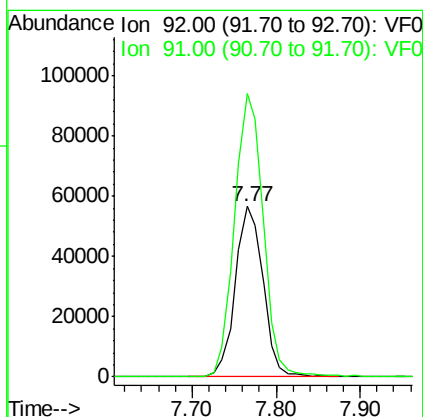
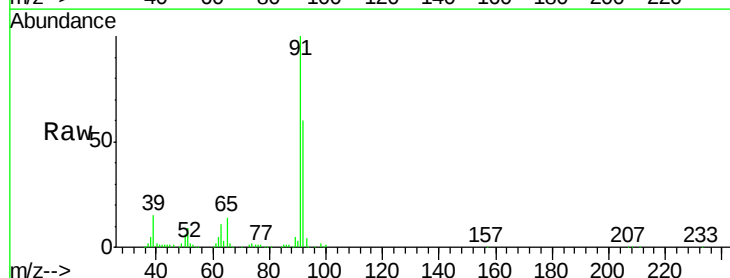
Acq: 27 Jun 2018 13:01

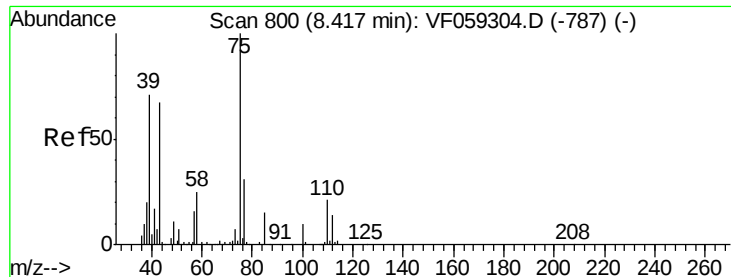
Tgt Ion: 92 Resp: 130102

Ion Ratio Lower Upper

92 100

91 166.1 132.8 199.2





#53

t-1,3-Dichloropropene

Concen: 20.14 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 75 Resp: 101110

Ion Ratio Lower Upper

75 100

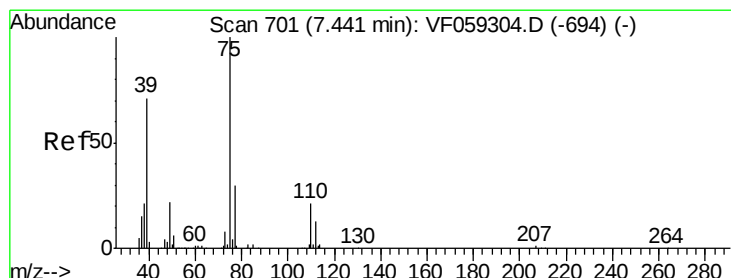
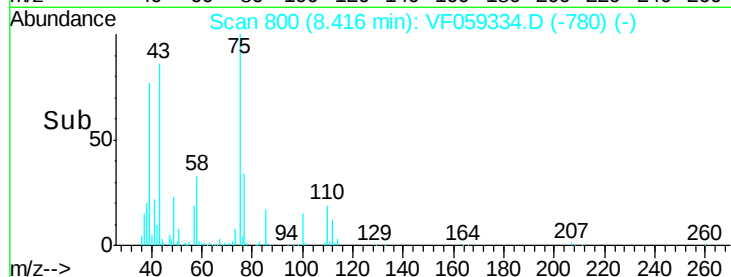
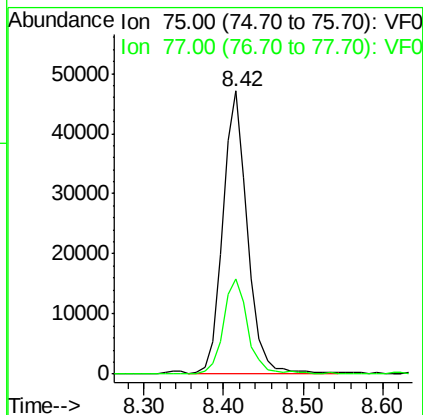
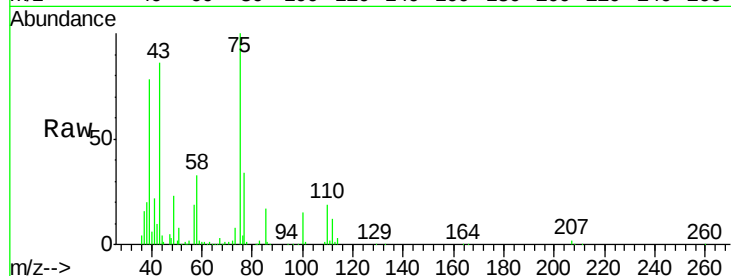
77 33.7 25.3 37.9

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#54

cis-1,3-Dichloropropene

Concen: 19.83 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

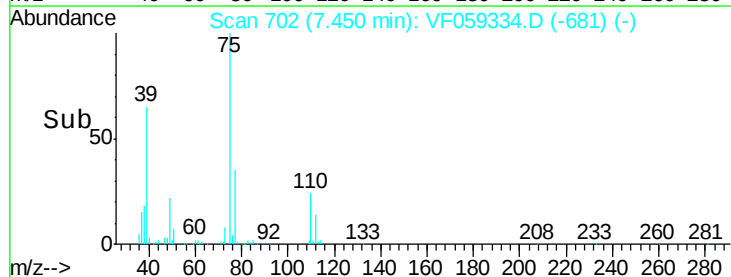
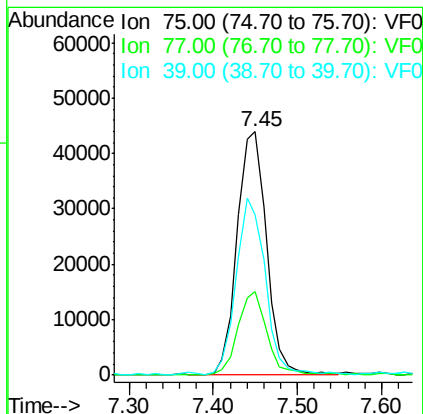
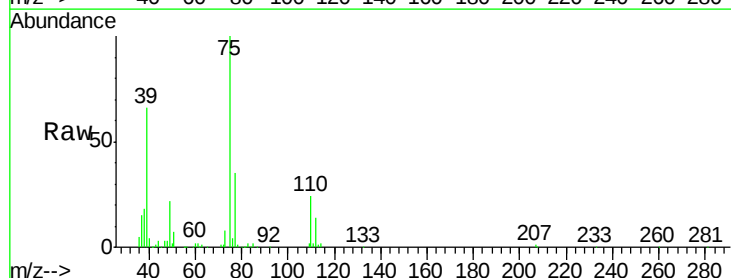
Tgt Ion: 75 Resp: 108114

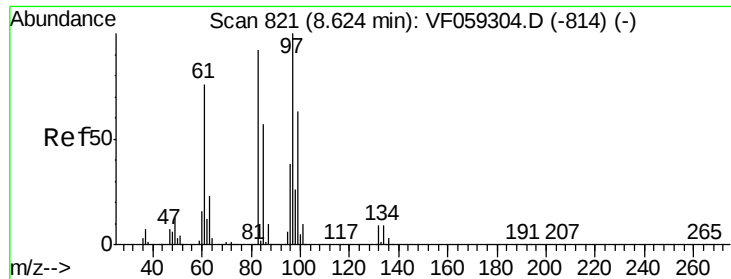
Ion Ratio Lower Upper

75 100

77 34.6 24.3 36.5

39 65.8 57.2 85.8





#55

1,1,2-Trichloroethane

Concen: 20.46 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

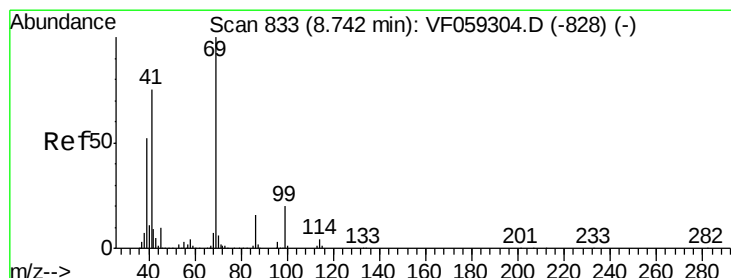
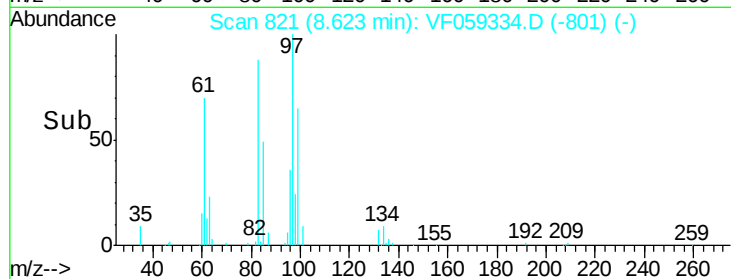
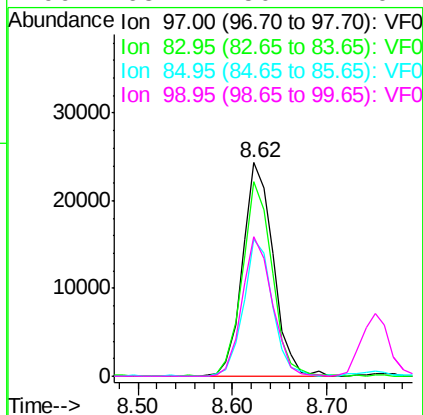
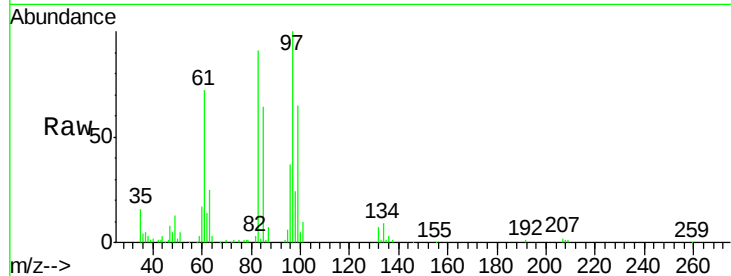
ClientSampleId :

VF0627SBS01

Tot Ion:	97	Resp:	54518
Ion	Ratio	Lower	Upper
97	100		
83	90.8	73.8	110.8
85	64.2	45.5	68.3
99	65.1	50.7	76.1

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#56

Ethyl methacrylate

Concen: 20.20 ug/l

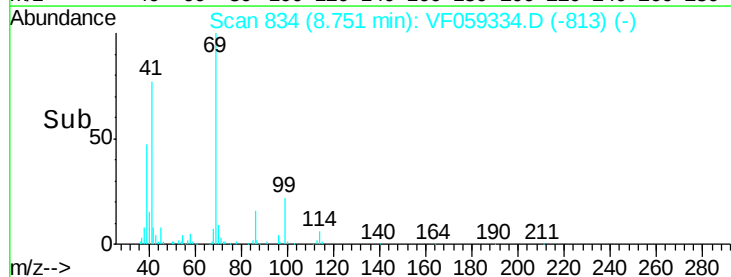
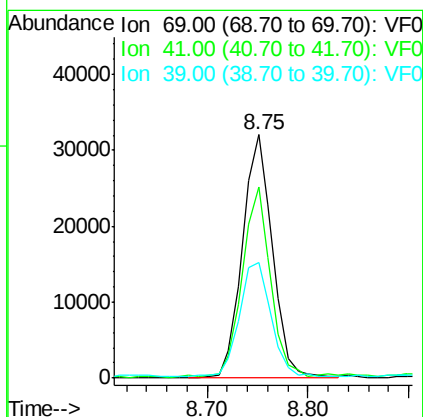
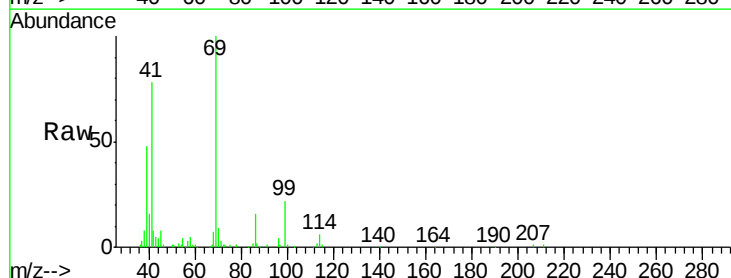
RT: 8.75 min Scan# 834

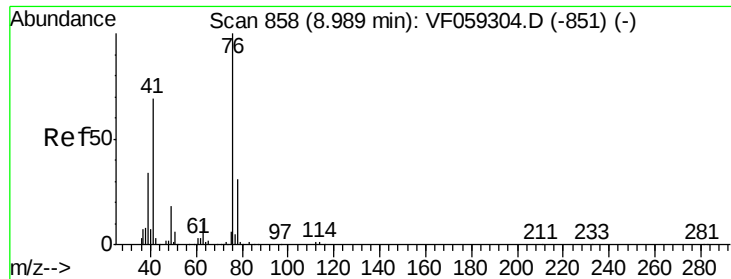
Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	69	Resp:	66702
Ion	Ratio	Lower	Upper
69	100		
41	78.4	60.3	90.5
39	47.6	42.2	63.4





#57

1,3-Dichloropropane

Concen: 21.03 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 76 Resp: 96133

Ion Ratio Lower Upper

76 100

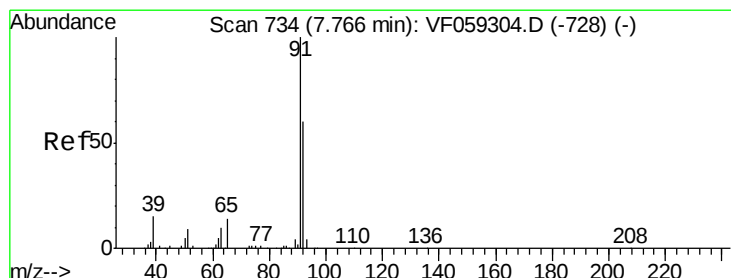
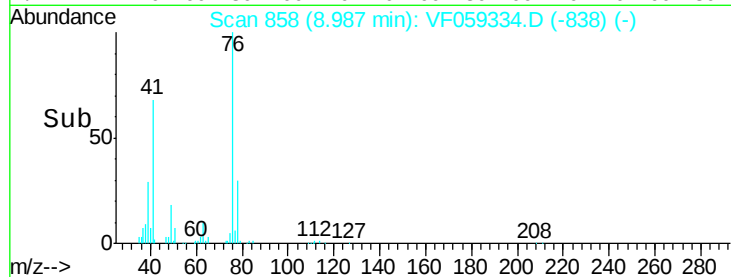
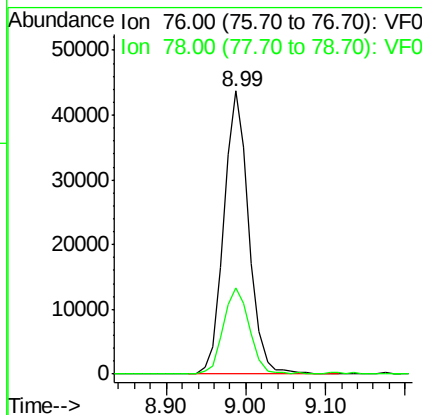
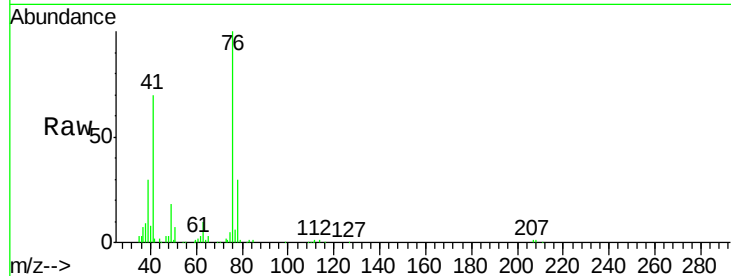
78 30.4 24.9 37.3

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#58

2-Chloroethyl Vinyl ether

Concen: 97.61 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059334.D

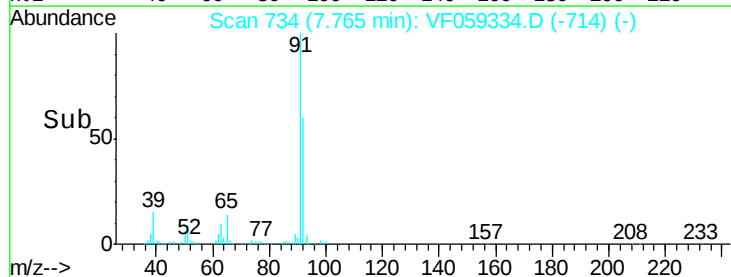
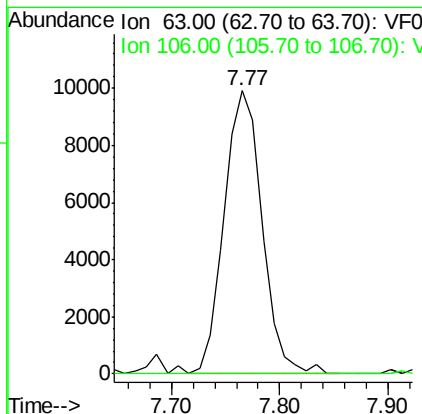
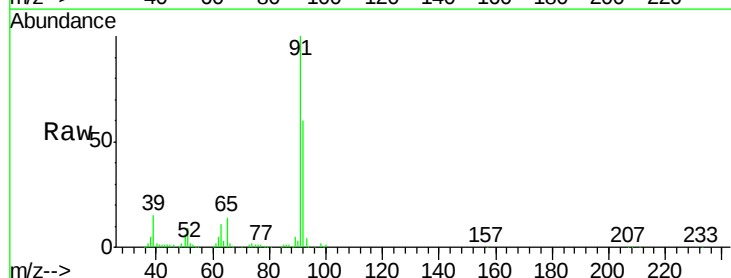
Acq: 27 Jun 2018 13:01

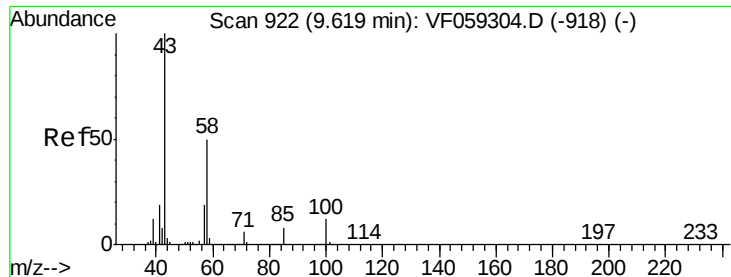
Tgt Ion: 63 Resp: 24170

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





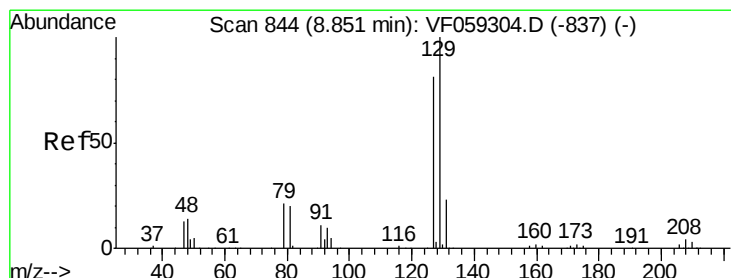
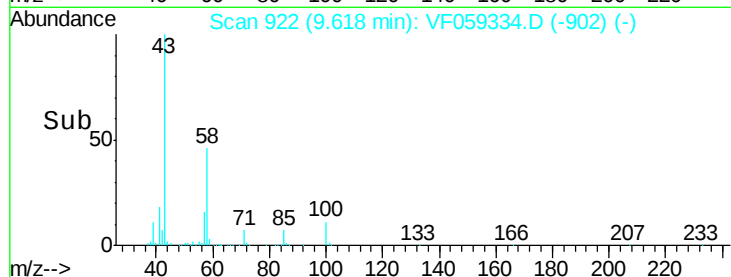
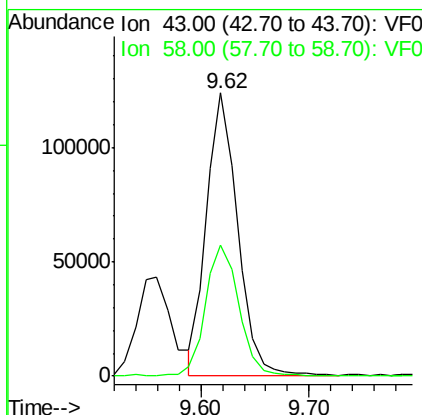
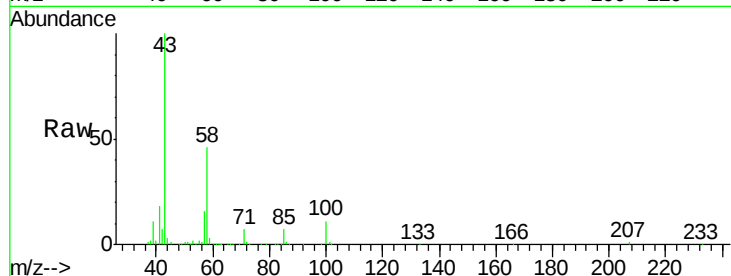
#59
2-Hexanone
Concen: 119.91 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion: 43 Resp: 246857
Ion Ratio Lower Upper
43 100
58 46.4 23.3 69.9

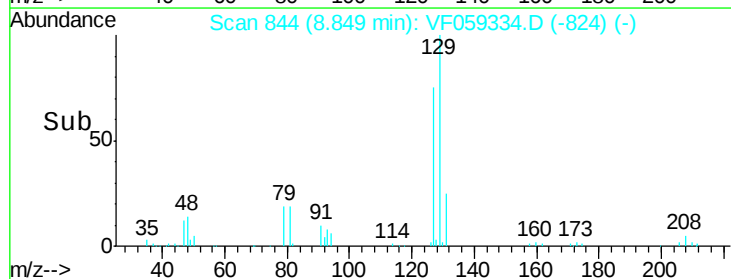
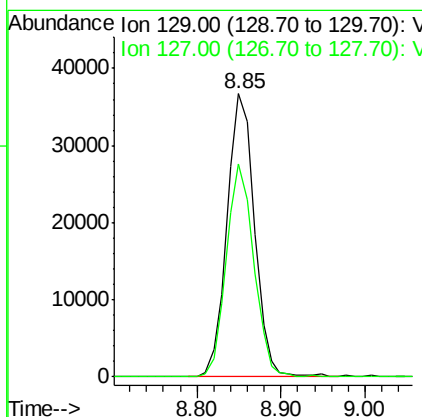
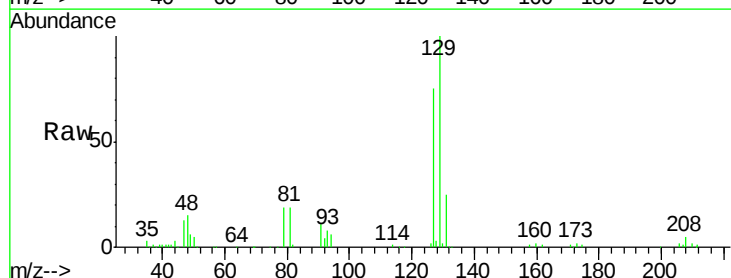
Manual Integrations
APPROVED

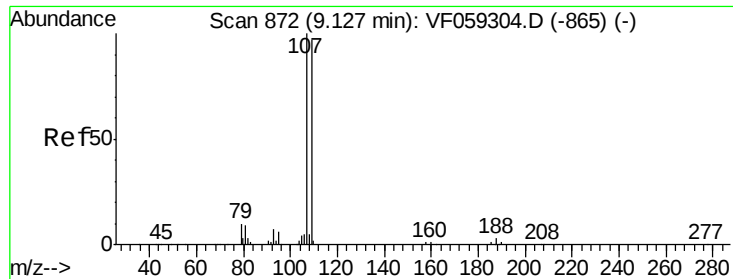
apatel
6/28/2018 11:09:50 AM



#60
Dibromochloromethane
Concen: 20.27 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion: 129 Resp: 83388
Ion Ratio Lower Upper
129 100
127 75.3 40.7 122.1





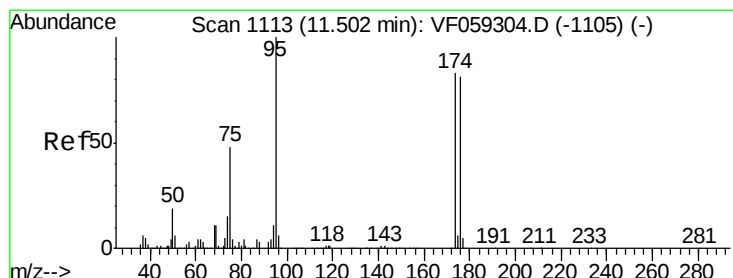
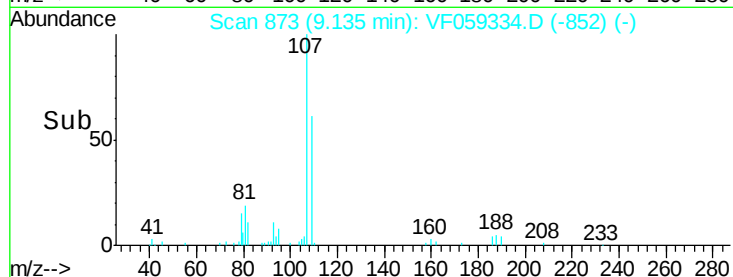
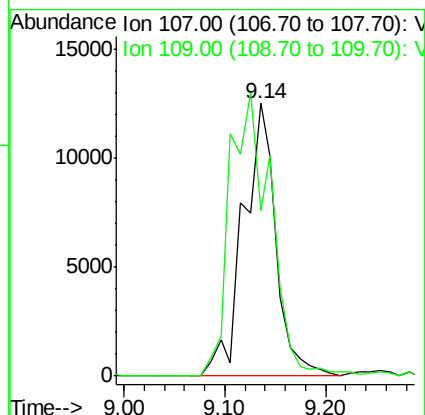
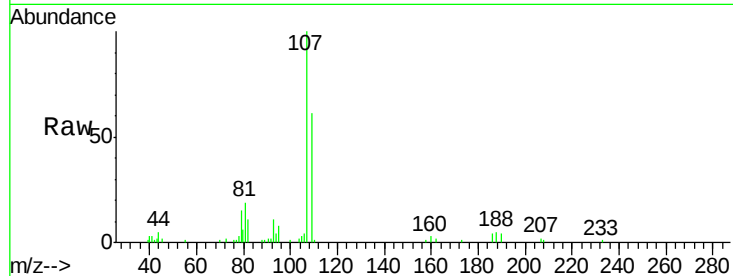
#61
 1,2-Dibromoethane
 Concen: 8.71 ug/l
 RT: 9.14 min Scan# 873
 Delta R.T. 0.01 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	60.6	77.3	115.9#

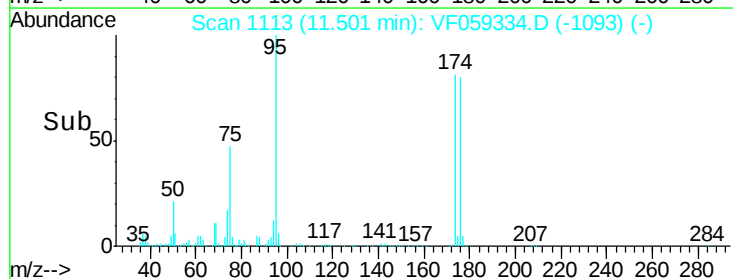
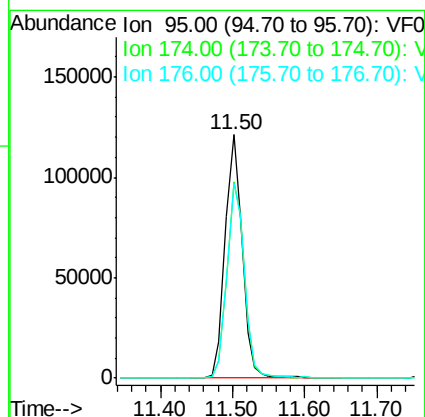
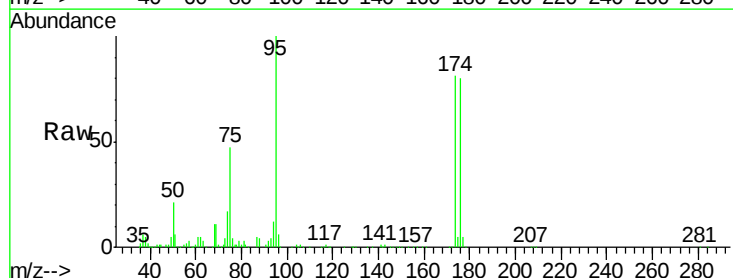
Manual Integrations
 APPROVED

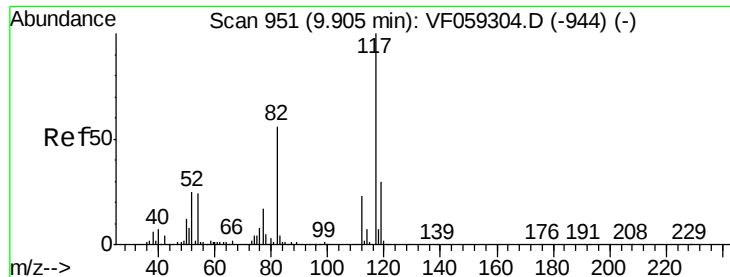
apatel
 6/28/2018 11:09:50 AM



#62
 4-Bromofluorobenzene
 Concen: 41.41 ug/l
 RT: 11.50 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	165.2
176	80.2	0.0	161.0





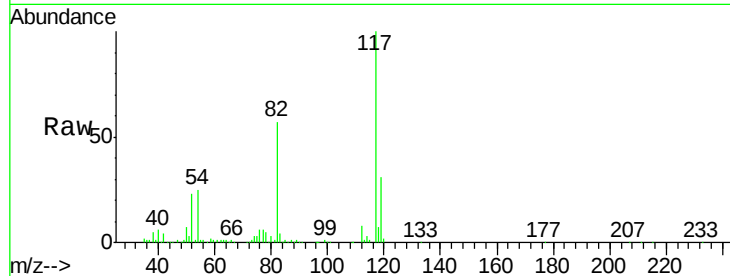
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.6	66.8
119	31.2	24.1	36.1

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM

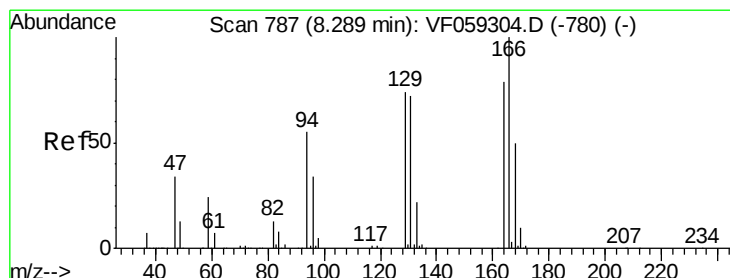
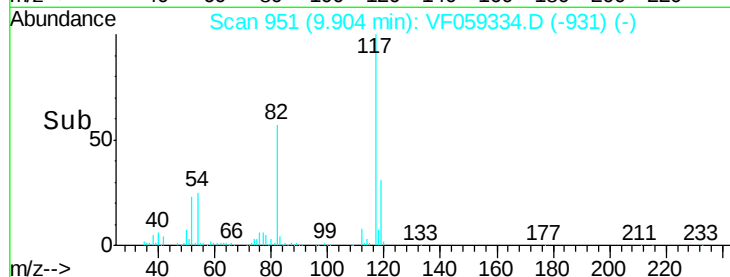
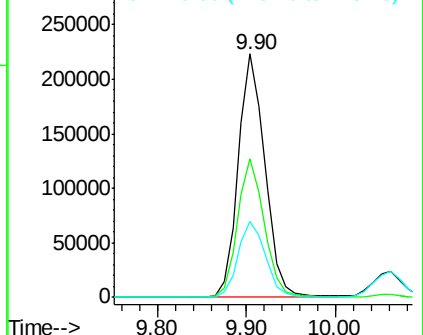


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 21.78 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.9	101.1	151.7
129	90.4	75.0	112.4
131	89.3	73.3	109.9

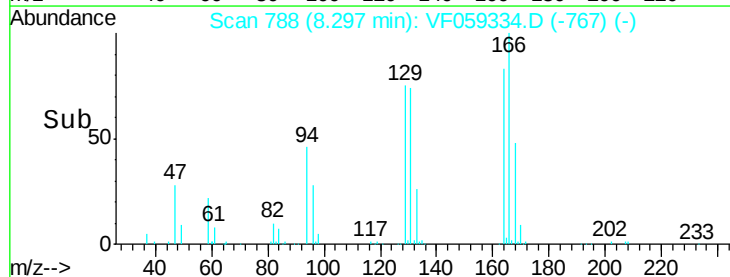
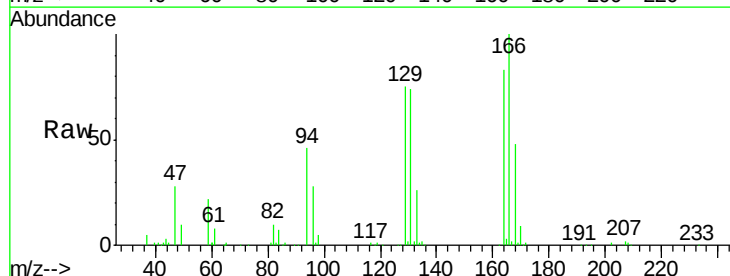
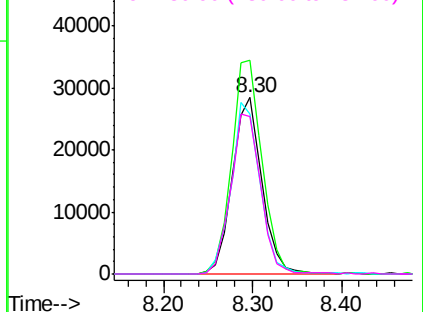
Abundance

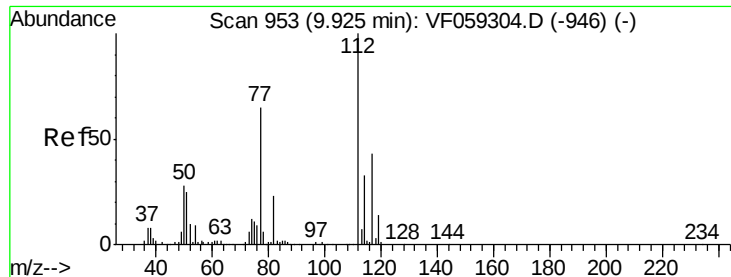
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





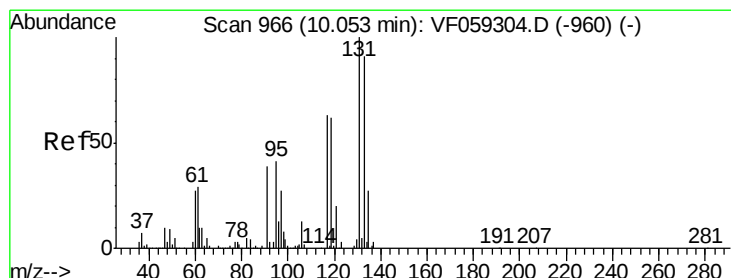
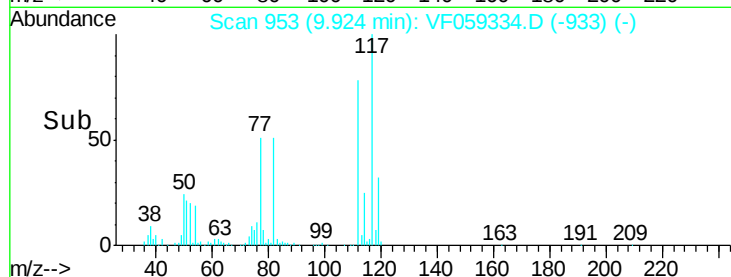
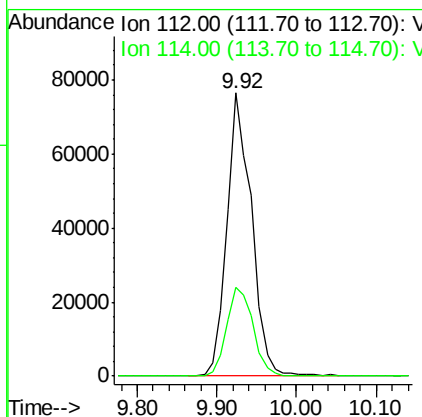
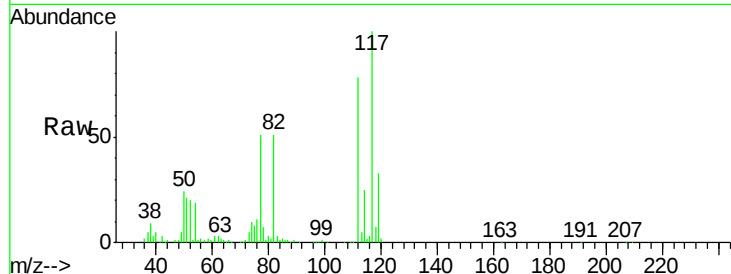
#65
Chlorobenzene
Concen: 19.24 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion:112 Resp: 166843
Ion Ratio Lower Upper
112 100
114 31.4 26.5 39.7

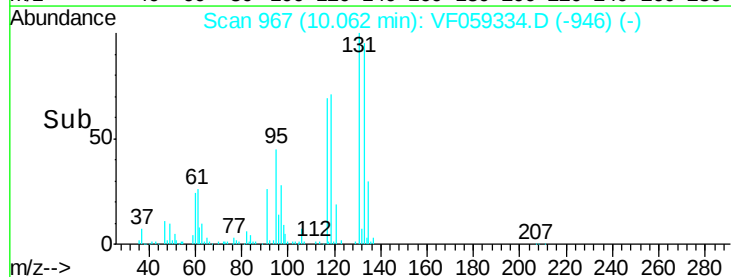
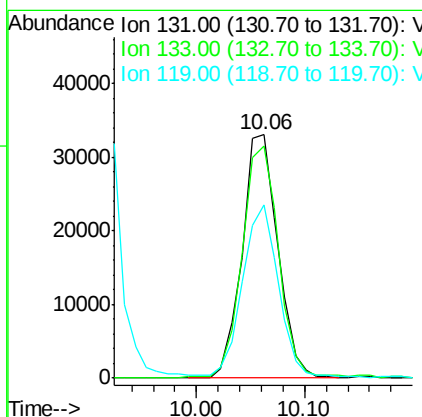
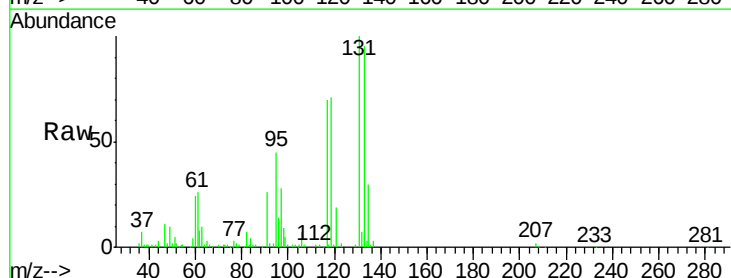
Manual Integrations
APPROVED

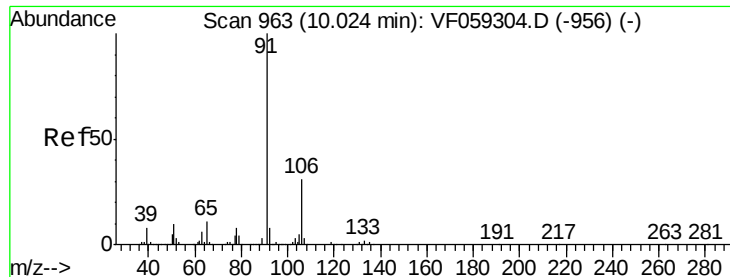
apatel
6/28/2018 11:09:50 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.27 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion:131 Resp: 76025
Ion Ratio Lower Upper
131 100
133 95.5 45.3 135.9
119 71.0 31.3 93.9





#67

Ethyl Benzene

Concen: 21.31 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion: 91 Resp: 313428

Ion Ratio Lower Upper

91 100

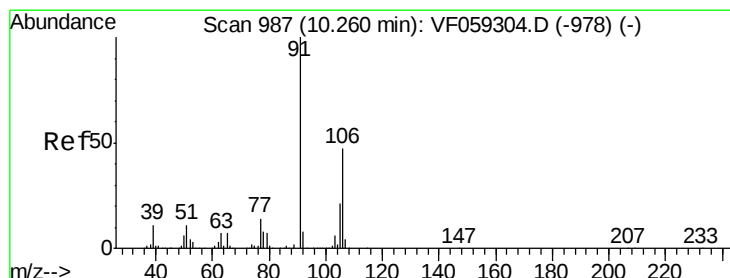
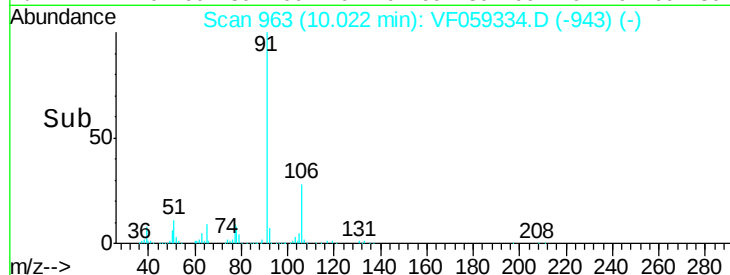
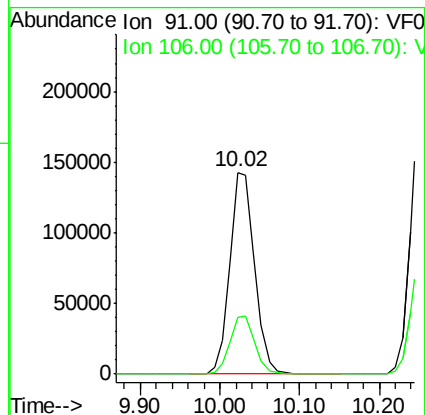
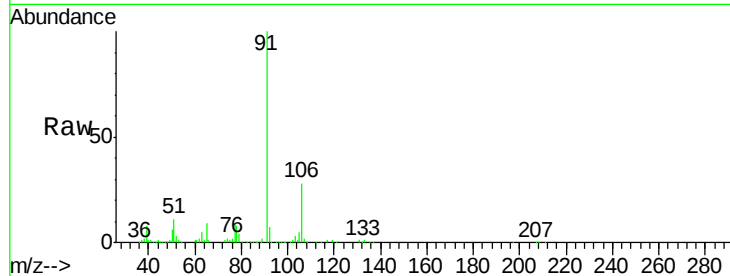
106 28.2 24.8 37.2

Manual Integrations

APPROVED

apatel

6/28/2018 11:09:50 AM



#68

m/p-Xylenes

Concen: 42.87 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.00 min

Lab File: VF059334.D

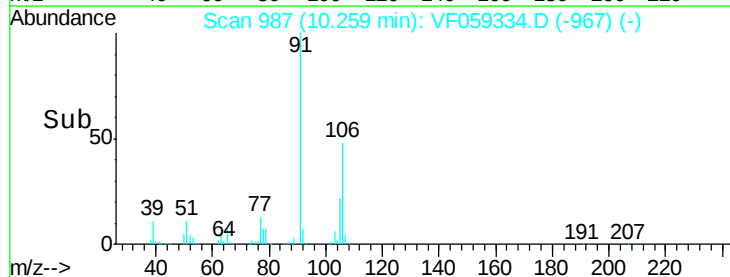
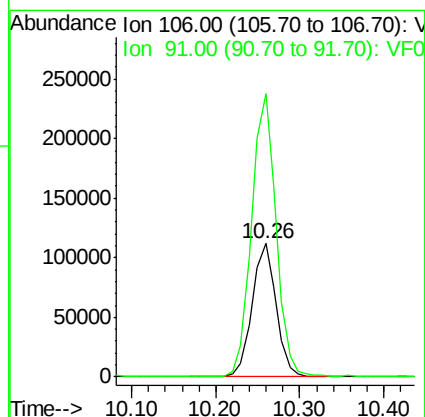
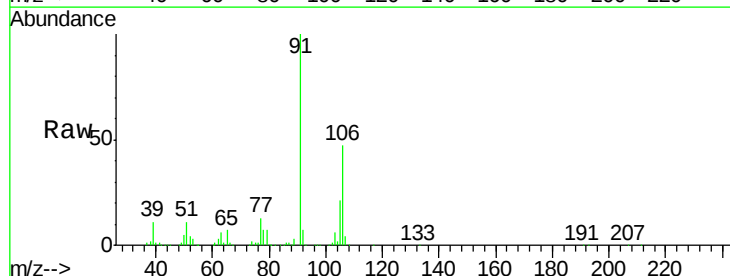
Acq: 27 Jun 2018 13:01

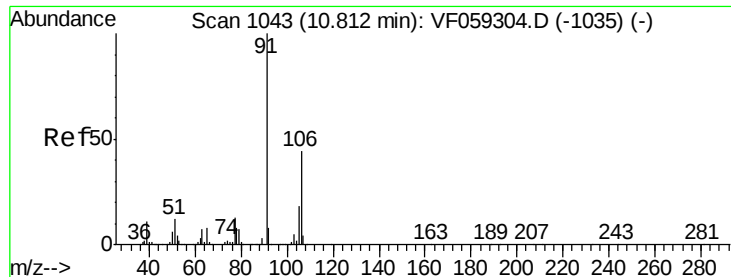
Tgt Ion: 106 Resp: 224457

Ion Ratio Lower Upper

106 100

91 212.7 170.8 256.2





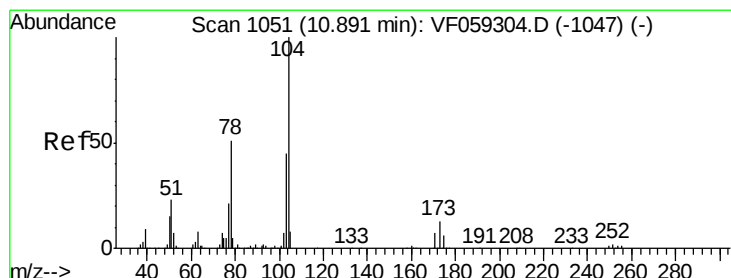
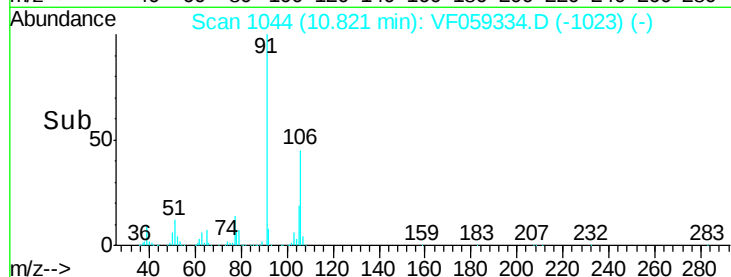
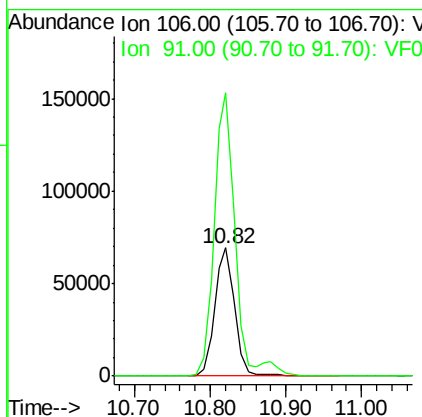
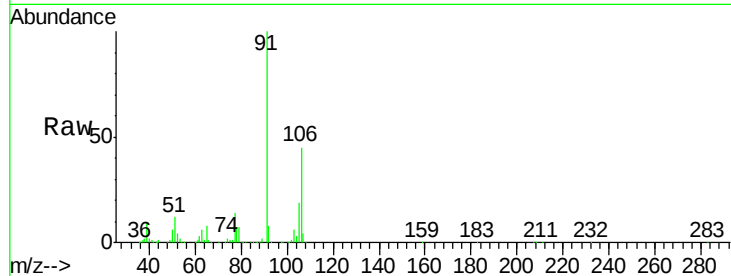
#69
o-Xylene
Concen: 21.90 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	220.4	114.6	343.6

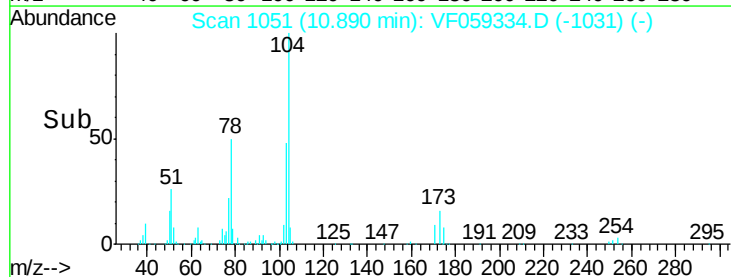
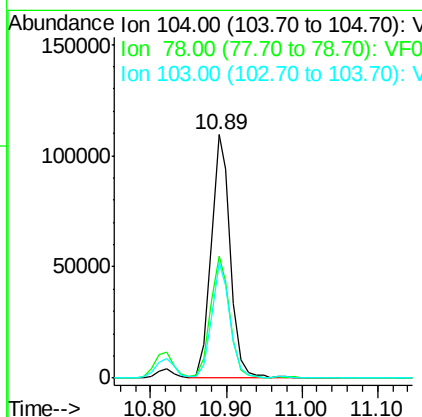
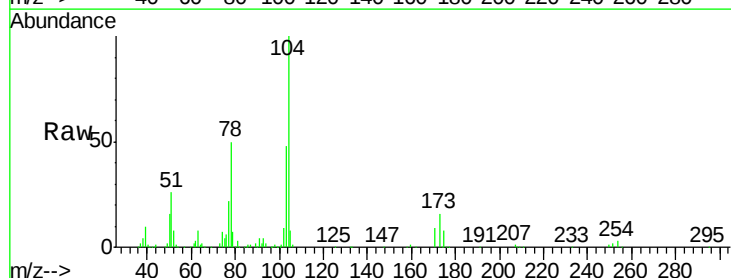
Manual Integrations
APPROVED

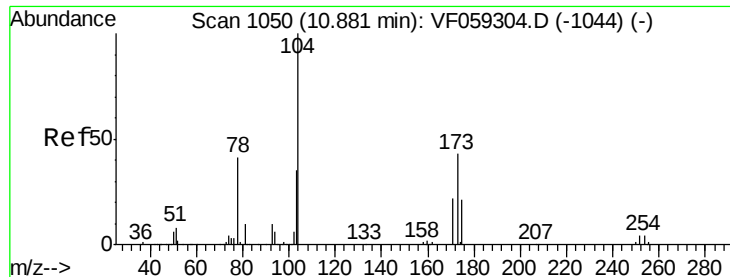
apatel
6/28/2018 11:09:50 AM



#70
Styrene
Concen: 21.89 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.9	61.3
103	47.7	36.5	54.7





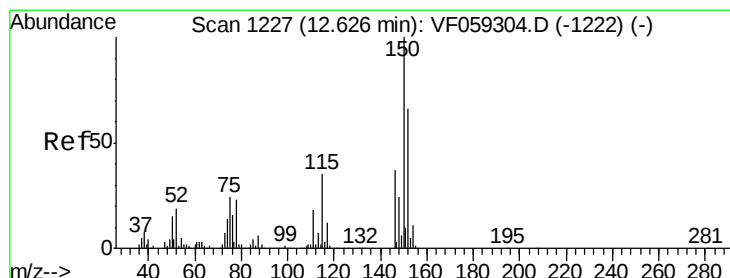
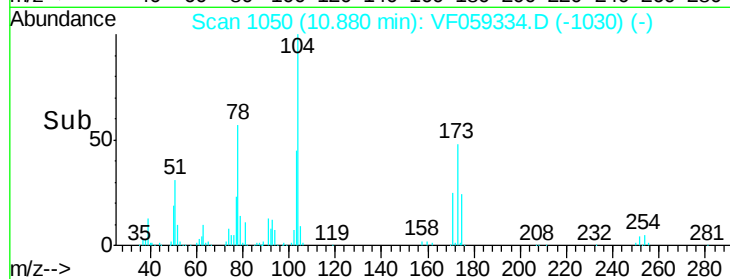
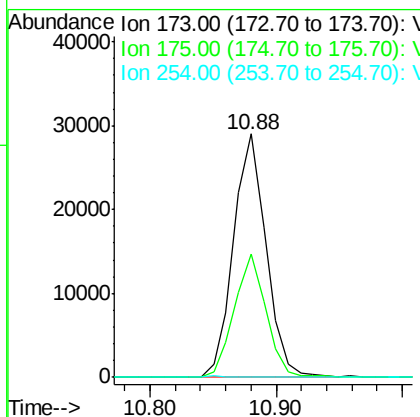
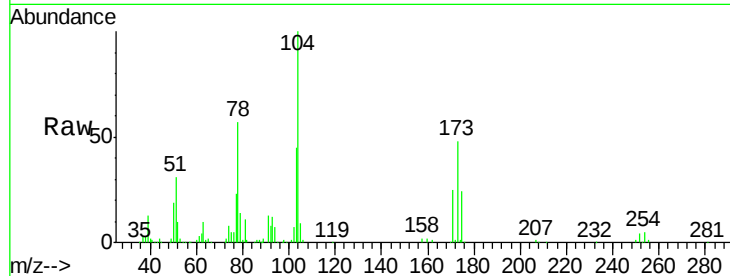
#71
Bromoform
Concen: 20.18 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.9	24.8	74.3
254	0.0	0.0	0.0

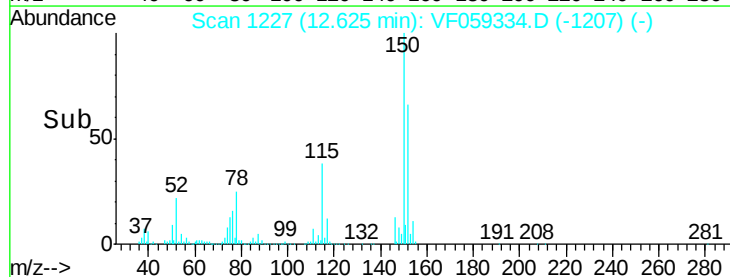
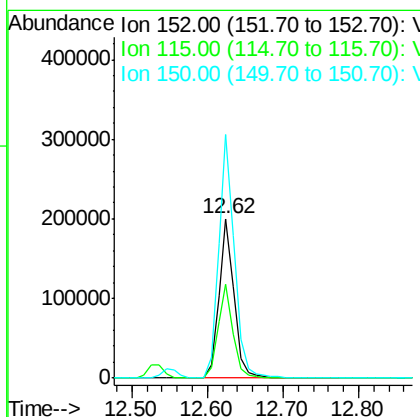
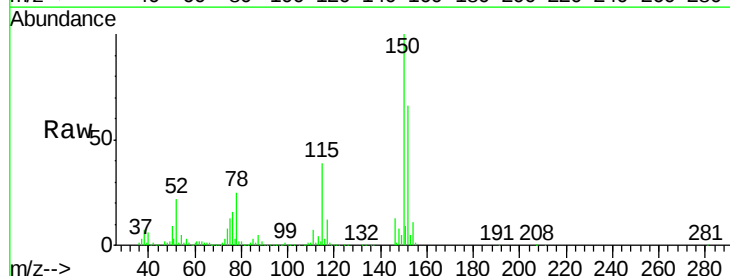
Manual Integrations
APPROVED

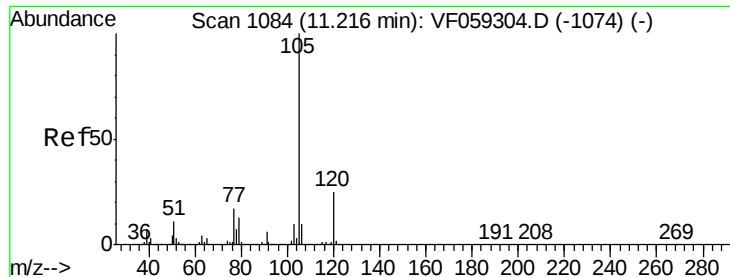
apatel
6/28/2018 11:09:50 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.7	27.1	81.3
150	152.5	0.0	305.2





#73

Isopropylbenzene

Concen: 22.03 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion:105 Resp: 364211

Ion Ratio Lower Upper

105 100

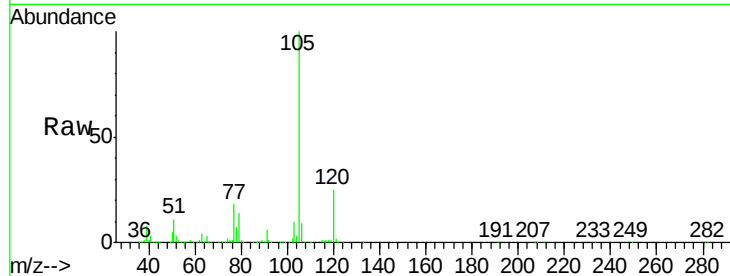
120 24.6 12.3 36.8

Manual Integrations

APPROVED

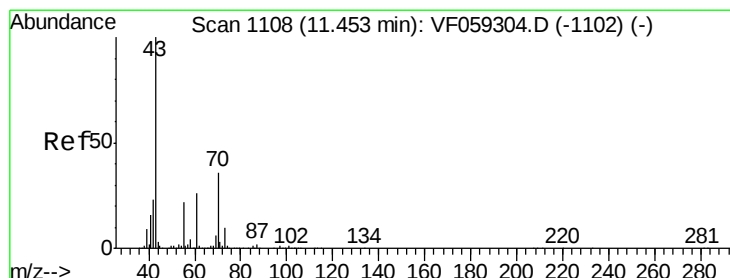
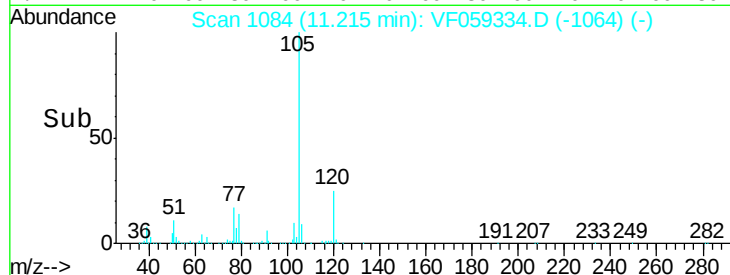
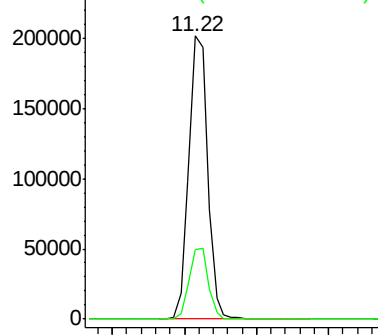
apatel

6/28/2018 11:09:50 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.26 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion: 43 Resp: 139577

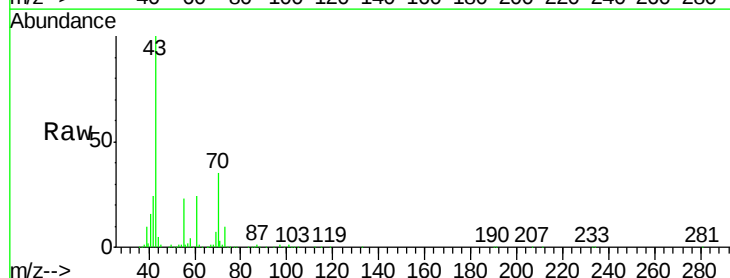
Ion Ratio Lower Upper

43 100

70 34.8 28.8 43.2

55 23.0 17.4 26.0

61 23.8 21.1 31.7

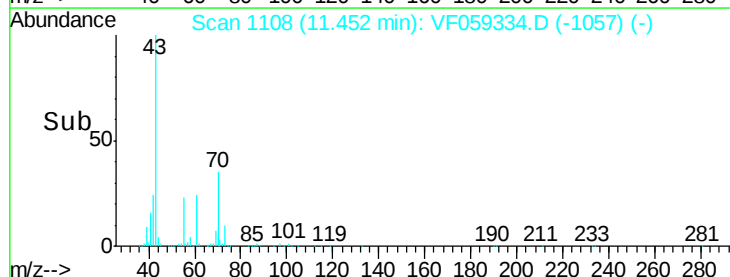
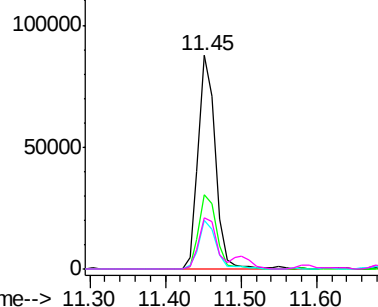


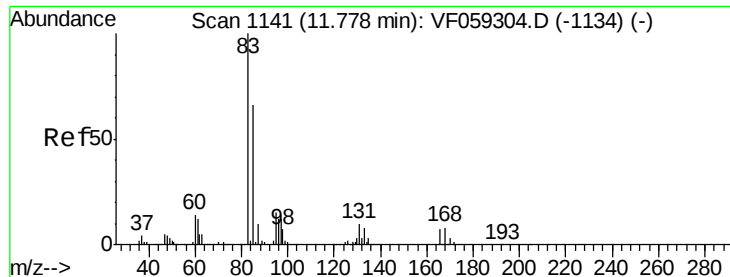
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.53 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

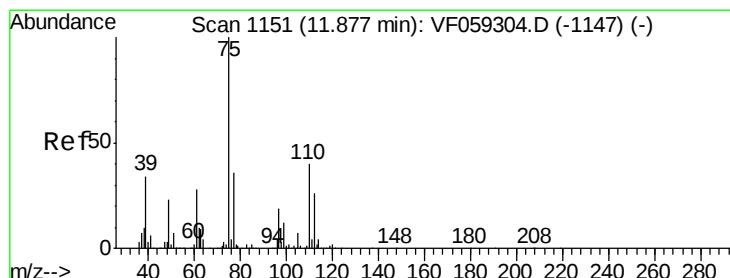
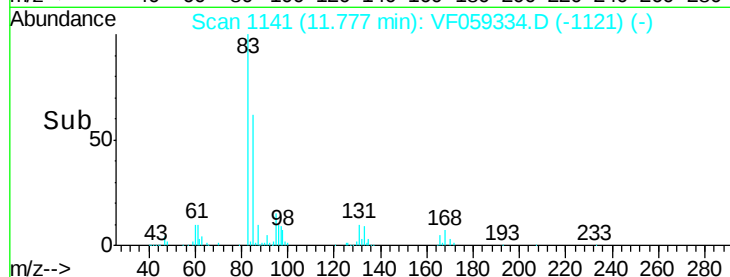
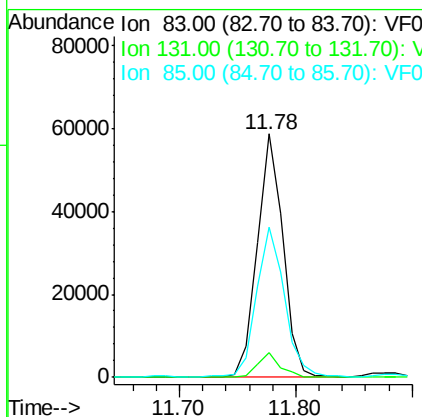
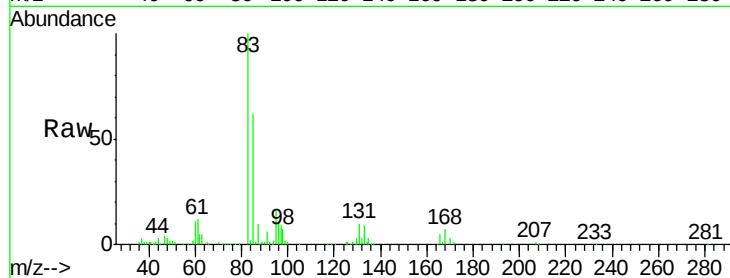
ClientSampleId :

VF0627SBS01

Tot Ion:	83	Resp:	89927
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.9	14.6
85	61.8	32.8	98.4

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#76

1,2,3-Trichloropropane

Concen: 21.90 ug/l

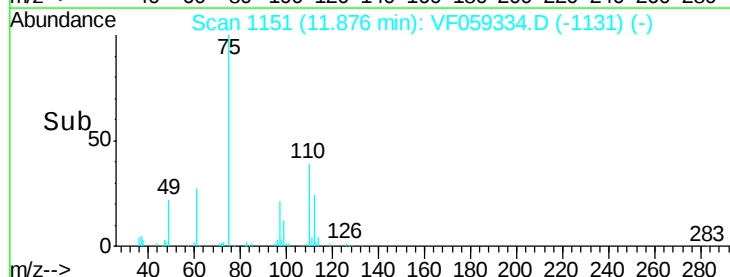
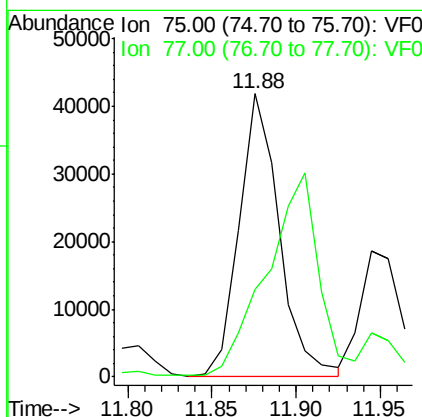
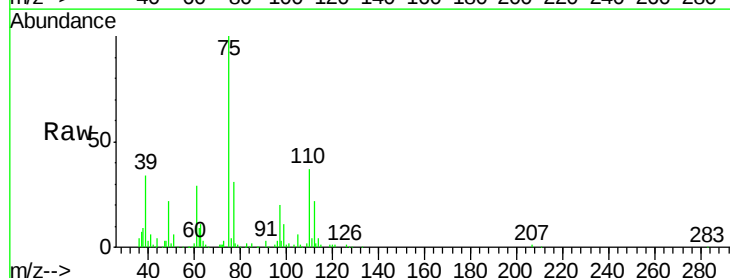
RT: 11.88 min Scan# 1151

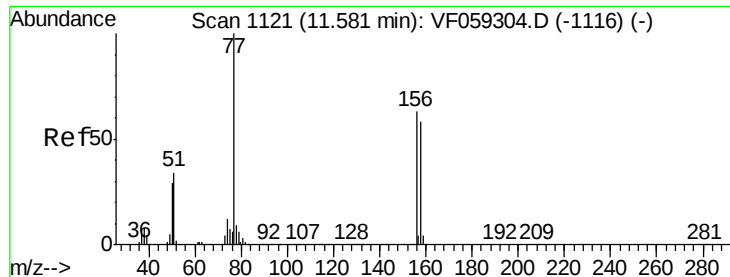
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	75	Resp:	68999
Ion Ratio	Lower	Upper	
75	100		
77	30.7	18.0	54.0





#77

Bromobenzene

Concen: 20.41 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

ClientSampleId :

VF0627SBS01

Tot Ion:156 Resp: 93621

Ion Ratio Lower Upper

156 100

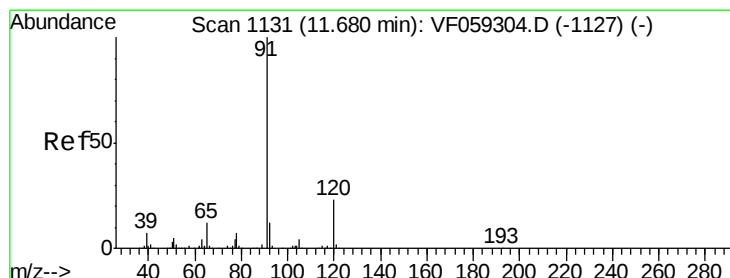
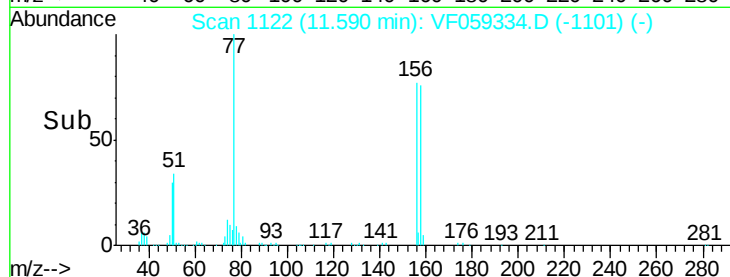
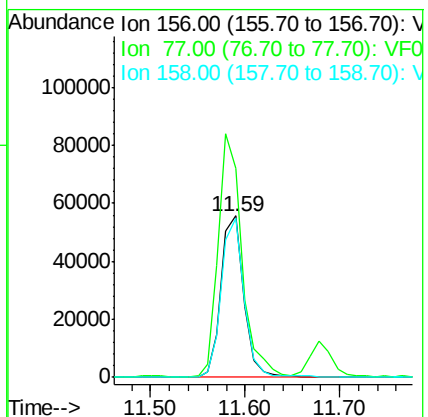
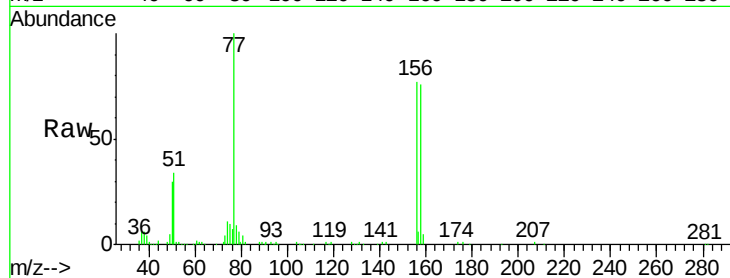
77 129.8 79.7 238.9

158 98.6 46.2 138.6

Manual Integrations
APPROVED

apatel

6/28/2018 11:09:50 AM



#78

n-propylbenzene

Concen: 15.78 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF059334.D

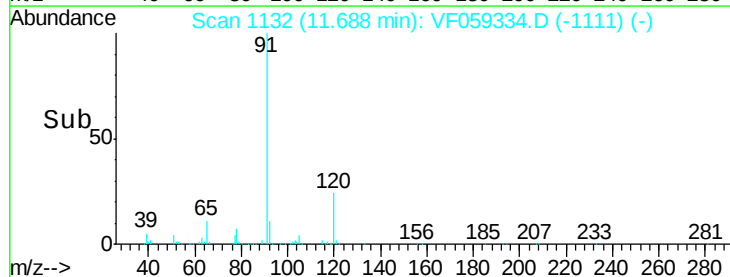
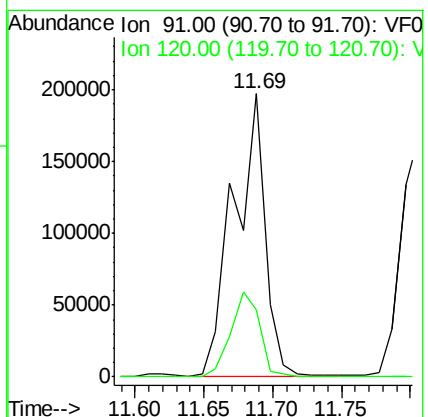
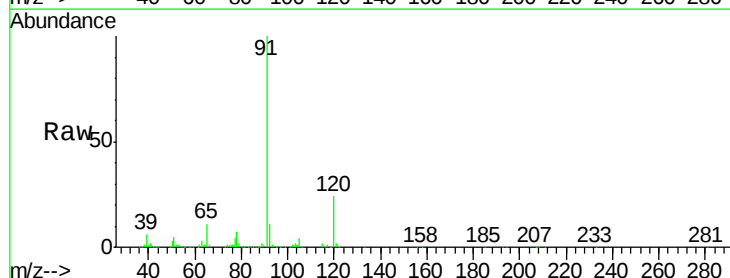
Acq: 27 Jun 2018 13:01

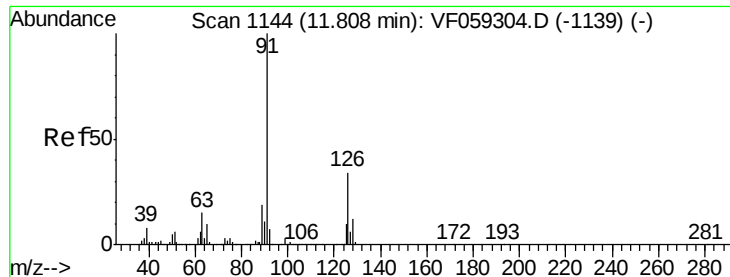
Tgt Ion: 91 Resp: 313418

Ion Ratio Lower Upper

91 100

120 23.5 11.7 35.0





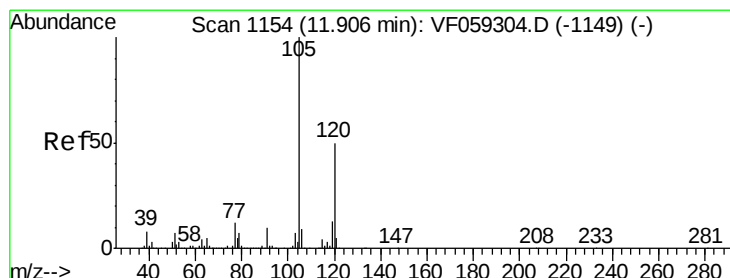
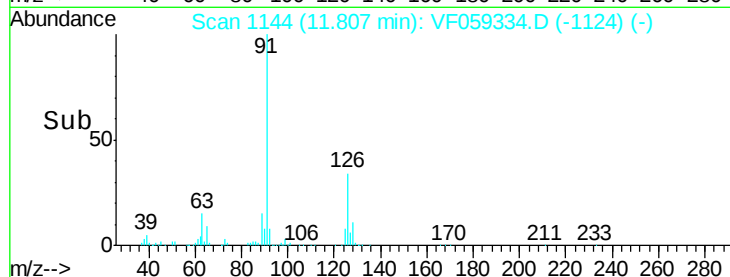
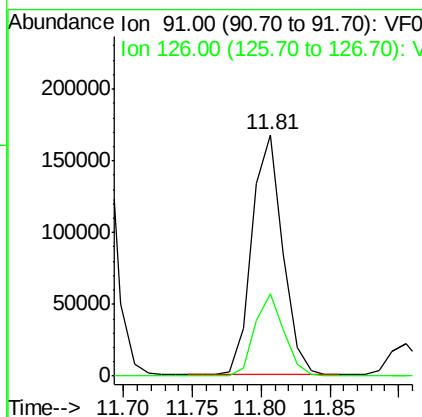
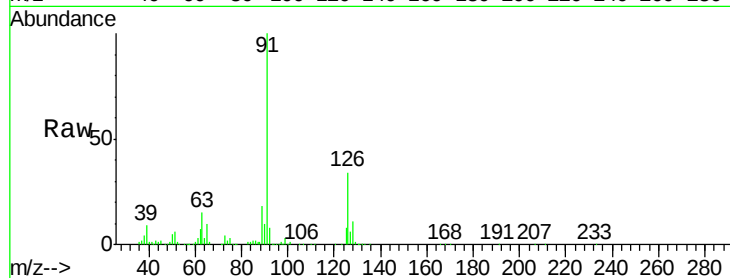
#79
2-Chlorotoluene
Concen: 21.60 ug/l
RT: 11.81 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.5

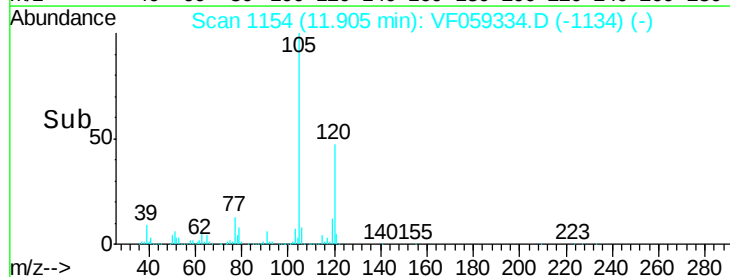
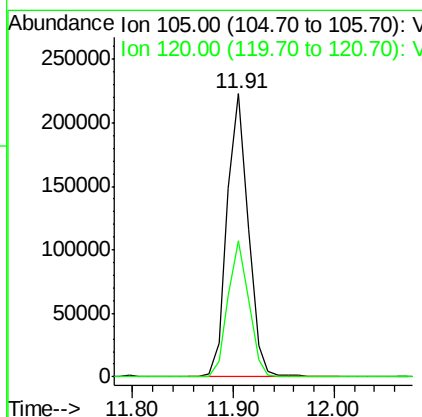
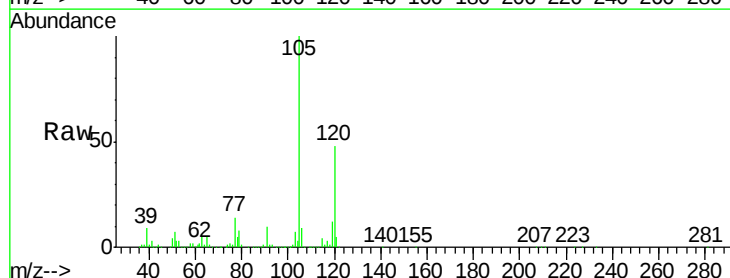
Manual Integrations
APPROVED

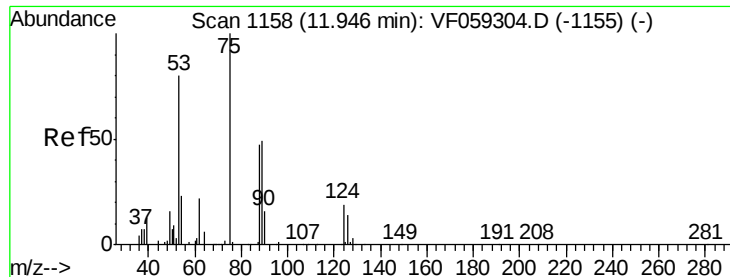
apatel
6/28/2018 11:09:50 AM



#80
1,3,5-Trimethylbenzene
Concen: 22.49 ug/l
RT: 11.91 min Scan# 1154
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.9	74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 21.12 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

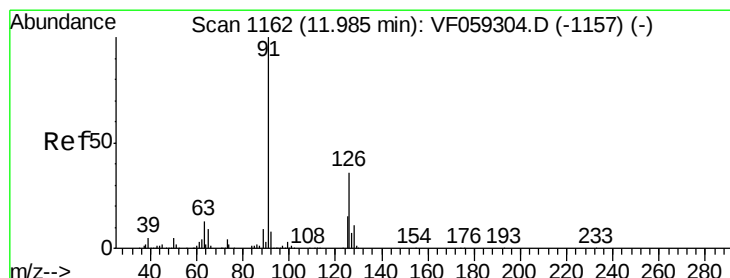
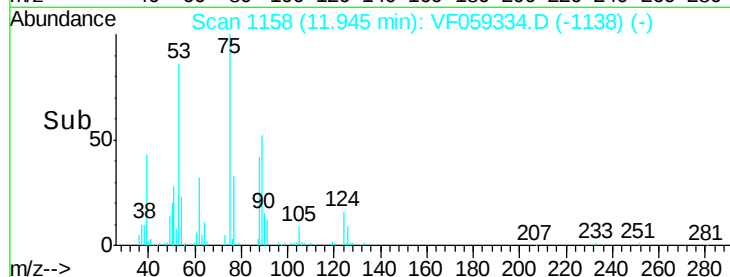
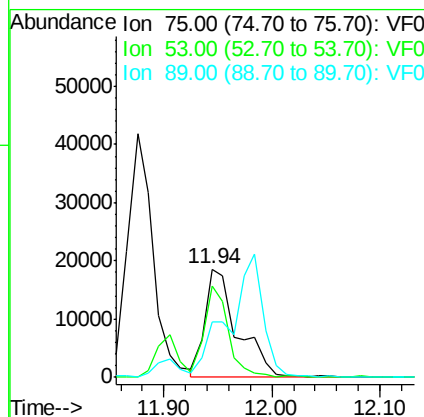
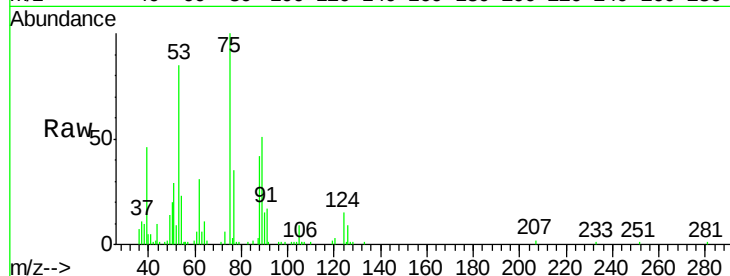
ClientSampleId :

VF0627SBS01

Tot Ion:	75	Resp:	39600
Ion	Ratio	Lower	Upper
75	100		
53	84.8	68.8	103.2
89	50.9	42.0	63.0

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#82

4-Chlorotoluene

Concen: 21.00 ug/l

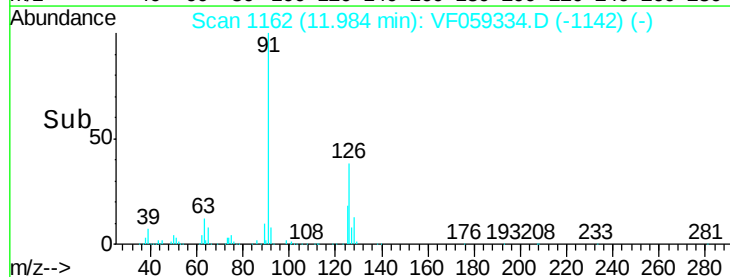
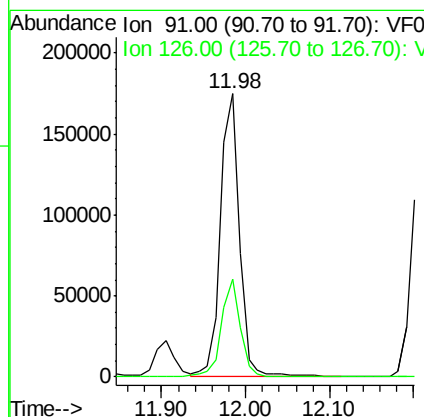
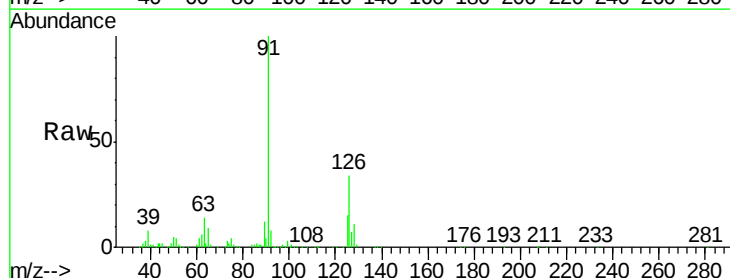
RT: 11.98 min Scan# 1162

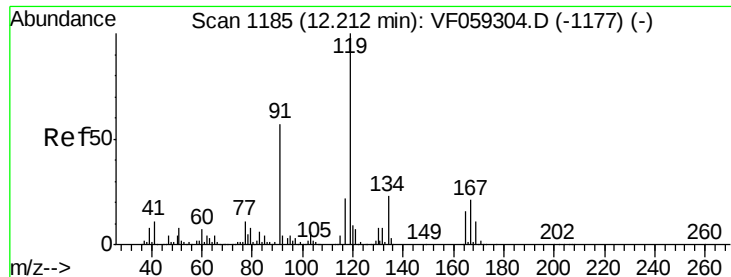
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	91	Resp:	272958
Ion	Ratio	Lower	Upper
91	100		
126	34.5	18.2	54.6





#83

tert-Butylbenzene

Concen: 22.08 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

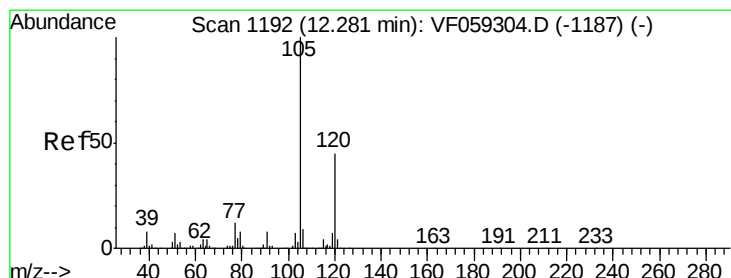
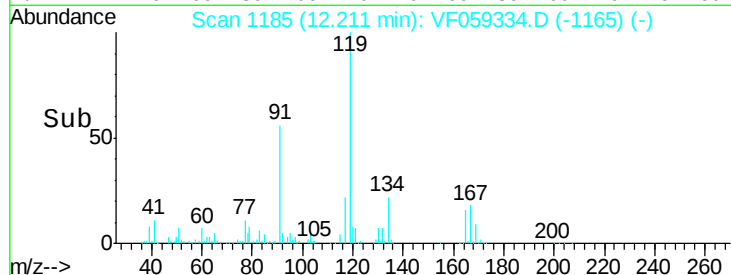
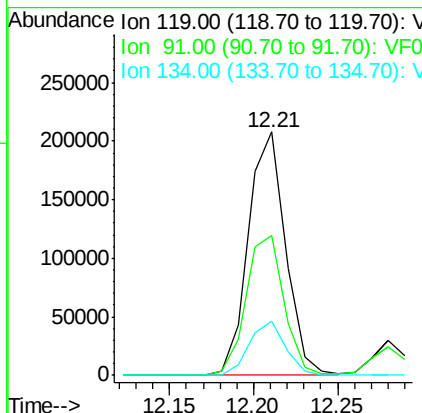
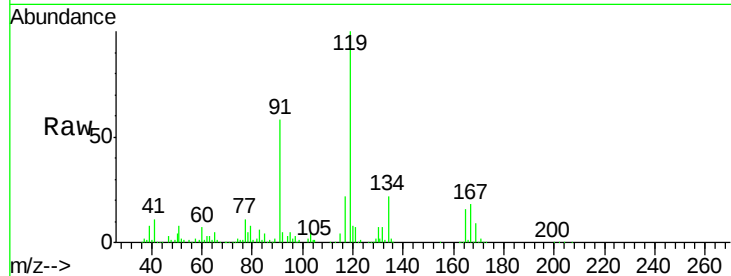
ClientSampleId :

VF0627SBS01

Tot Ion:	119	Resp:	319879
Ion Ratio	Lower	Upper	
119	100		
91	57.7	28.4	85.2
134	22.5	11.7	35.1

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#84

1,2,4-Trimethylbenzene

Concen: 21.02 ug/l

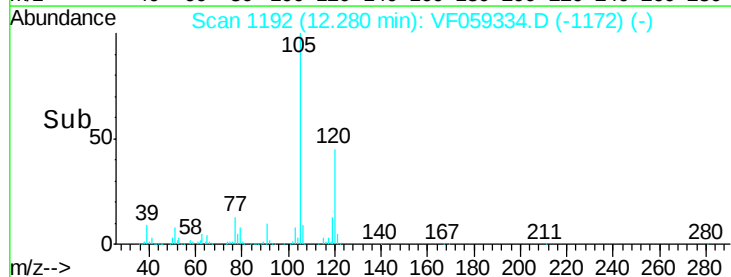
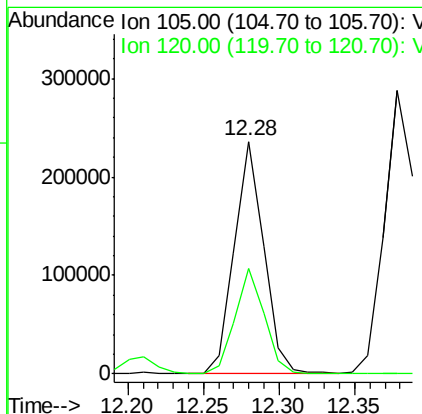
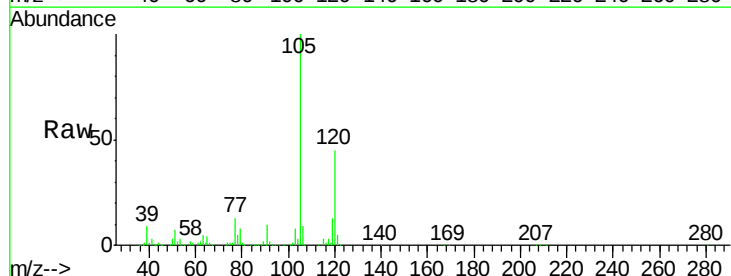
RT: 12.28 min Scan# 1192

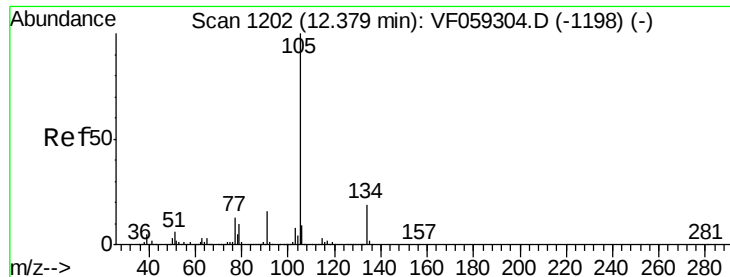
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	105	Resp:	320741
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.8	68.4





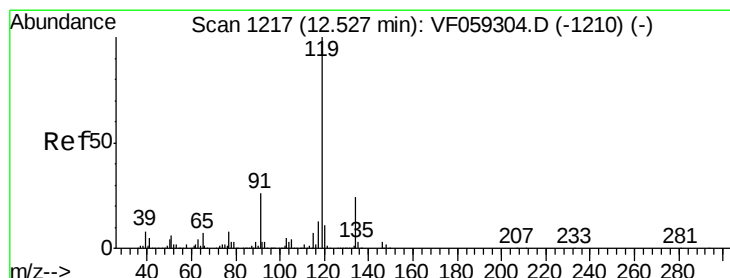
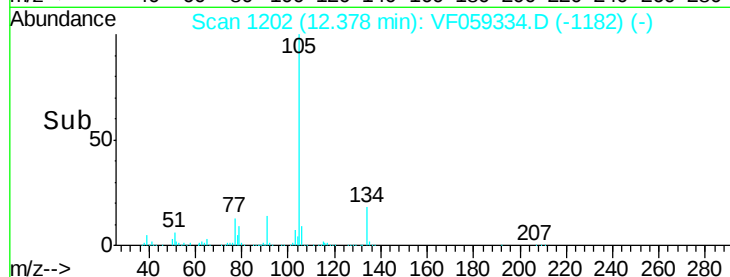
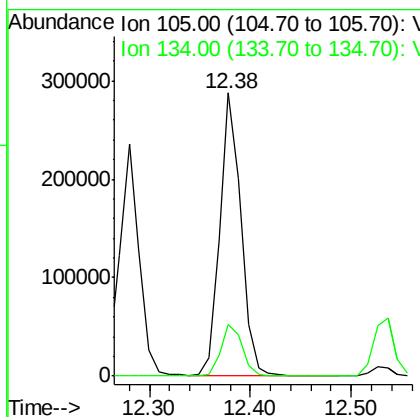
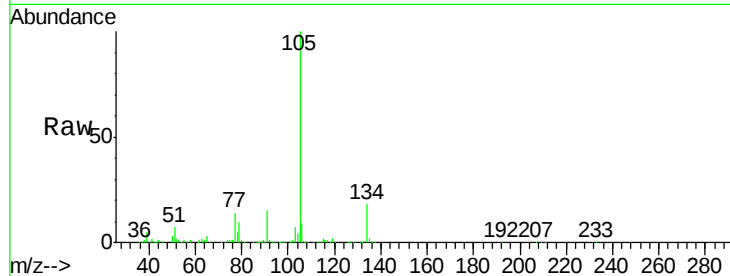
#85
 sec-Butylbenzene
 Concen: 21.88 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.3	9.4	28.3

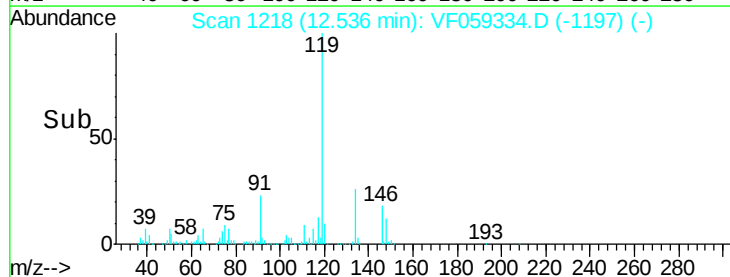
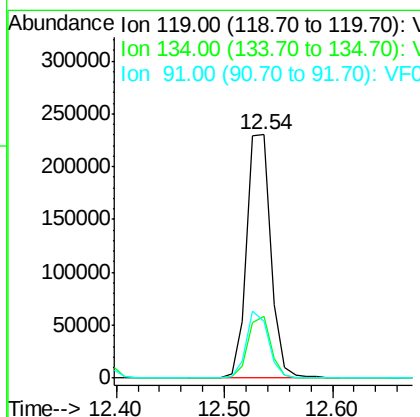
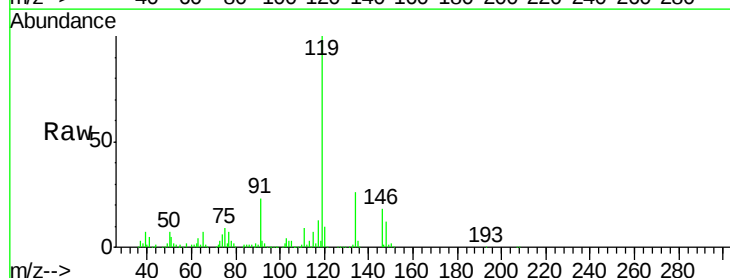
Manual Integrations
 APPROVED

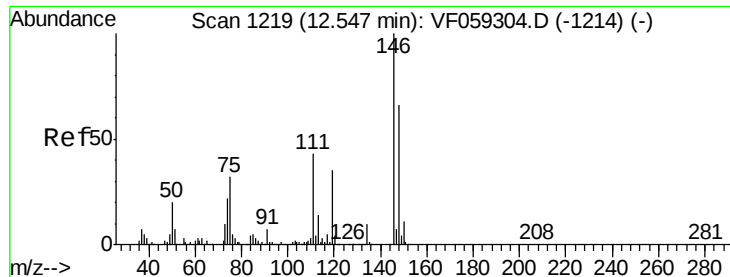
apatel
 6/28/2018 11:09:50 AM



#86
 p-Isopropyltoluene
 Concen: 22.20 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.2	36.4
91	23.0	12.9	38.6





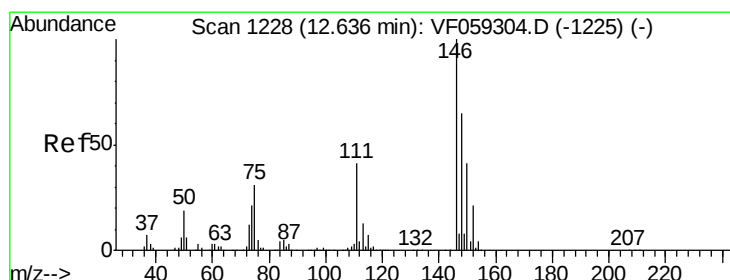
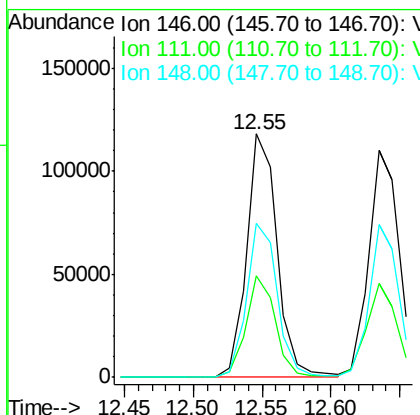
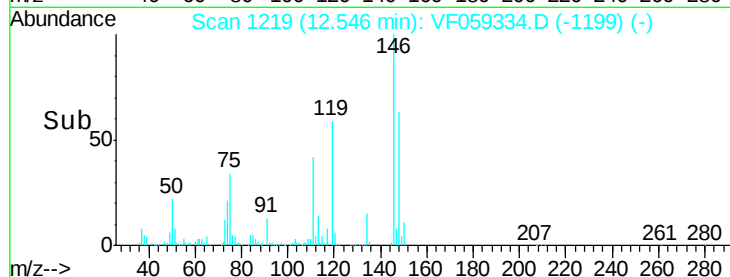
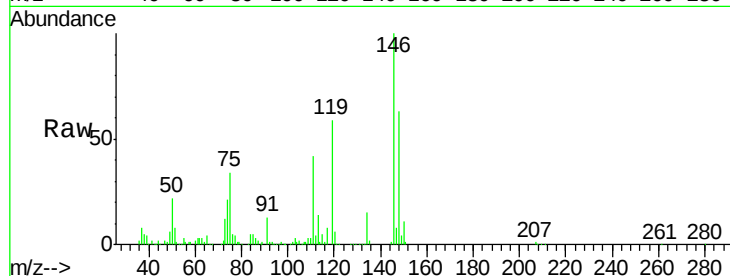
#87
 1,3-Dichlorobenzene
 Concen: 21.47 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	63.0	32.8	98.4

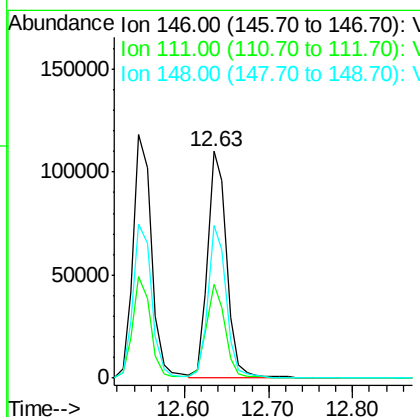
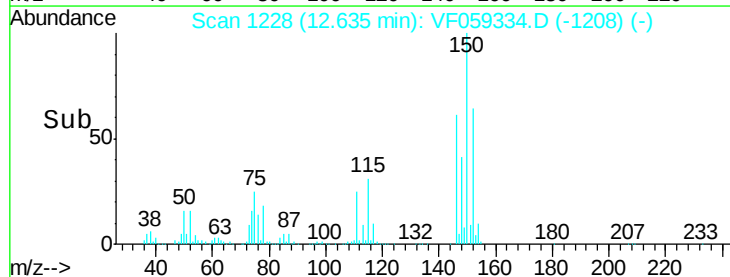
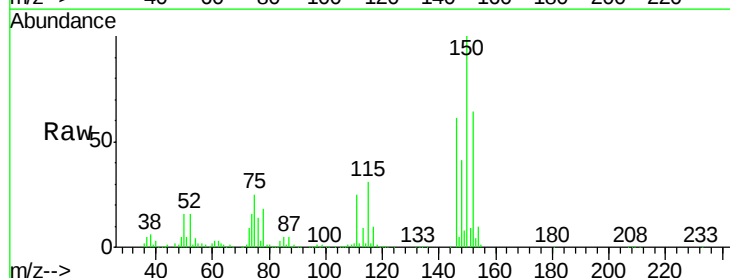
Manual Integrations
 APPROVED

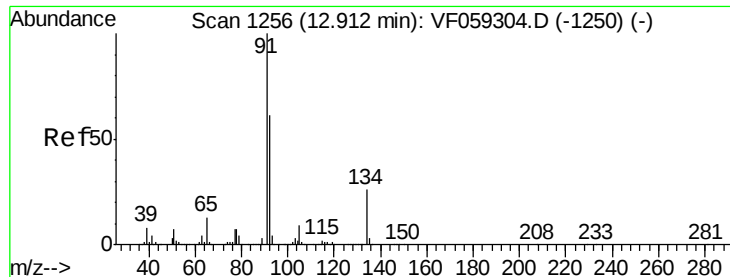
apatel
 6/28/2018 11:09:50 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.13 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.7	62.1
148	67.5	32.8	98.3





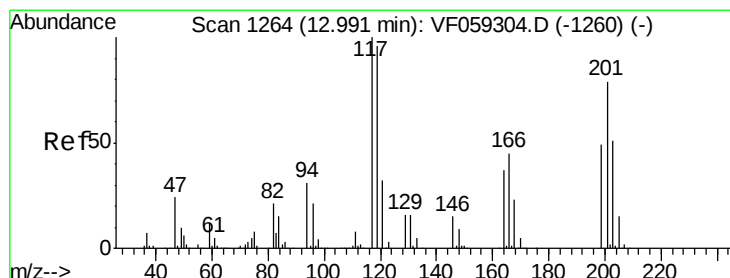
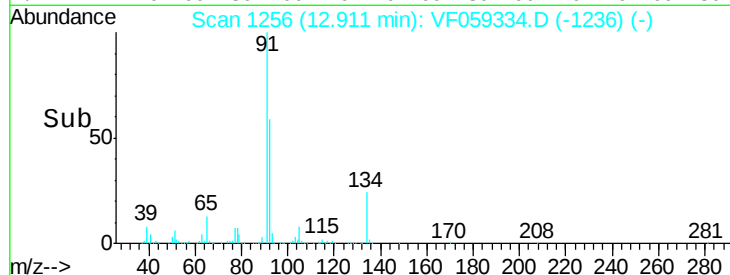
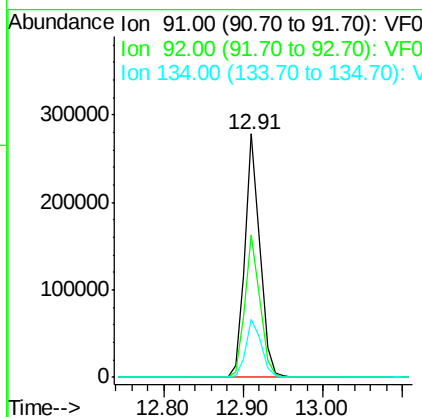
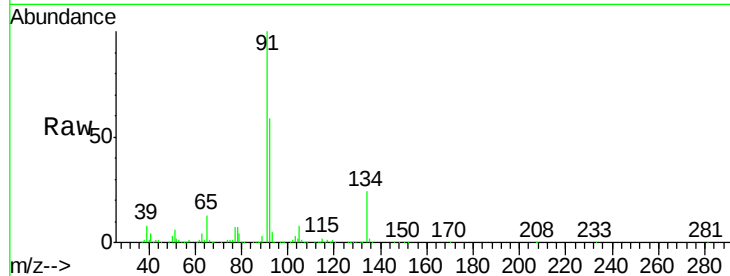
#89
n-Butylbenzene
Concen: 22.31 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Instrument :
MSVOA_F
ClientSampleId :
VF0627SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.8	30.3	91.0
134	24.1	12.9	38.7

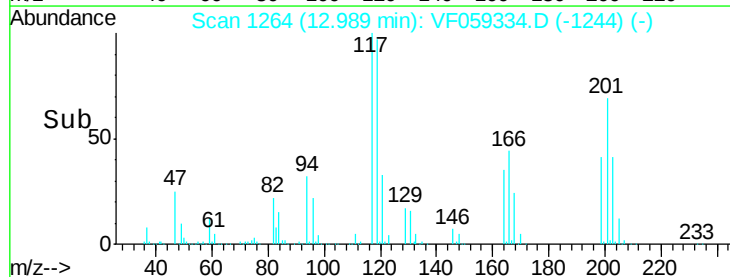
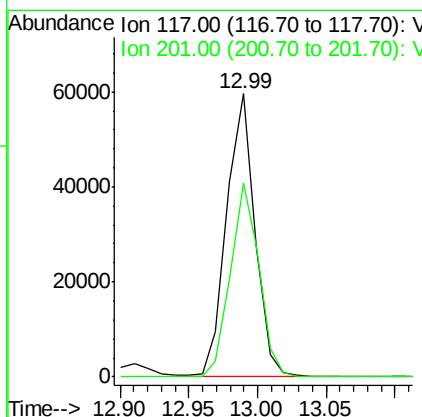
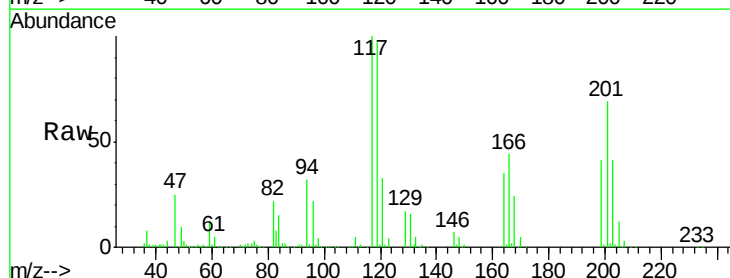
Manual Integrations
APPROVED

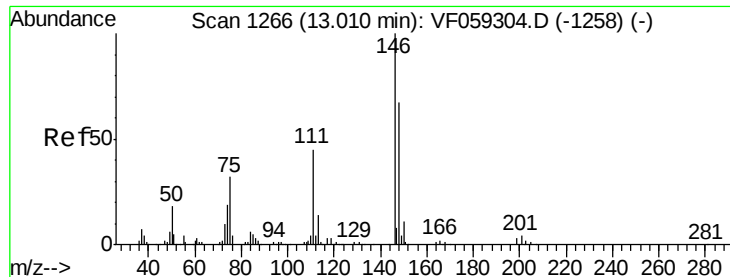
apatel
6/28/2018 11:09:50 AM



#90
Hexachloroethane
Concen: 21.28 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VF059334.D
Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.5	39.5	118.5





#91

1,2-Dichlorobenzene

Concen: 20.91 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

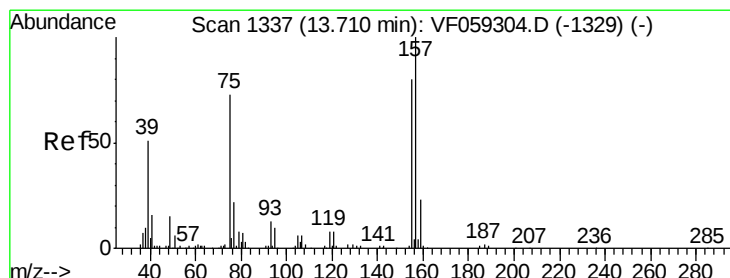
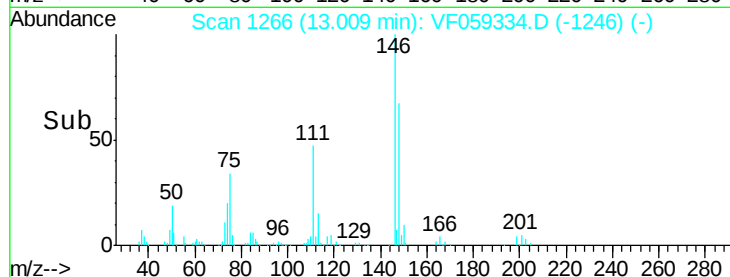
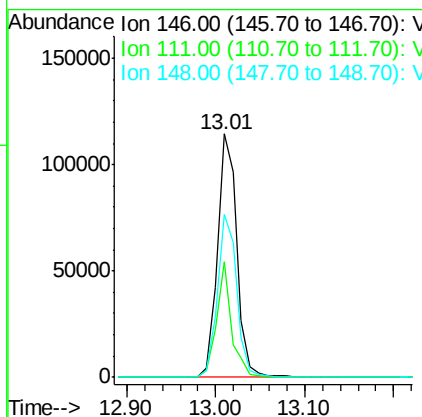
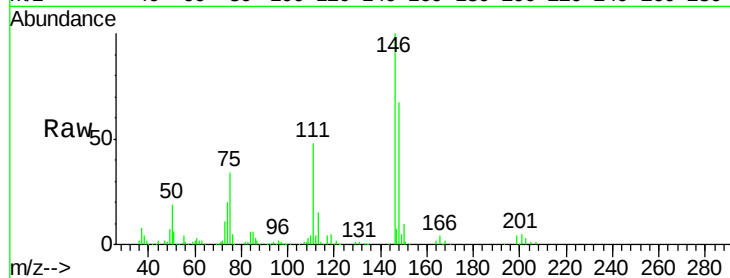
ClientSampleId :

VF0627SBS01

Tot Ion:	146	Resp:	174154
Ion Ratio	Lower	Upper	
146	100		
111	47.6	22.7	68.0
148	66.9	33.5	100.4

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.02 ug/l

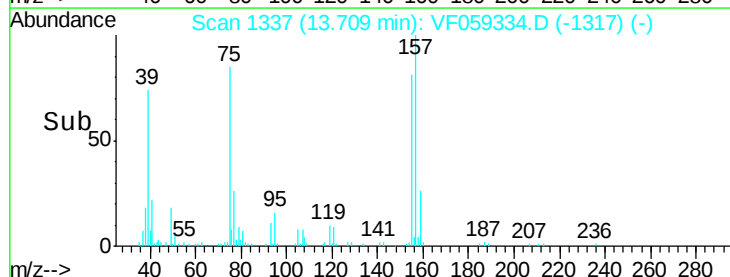
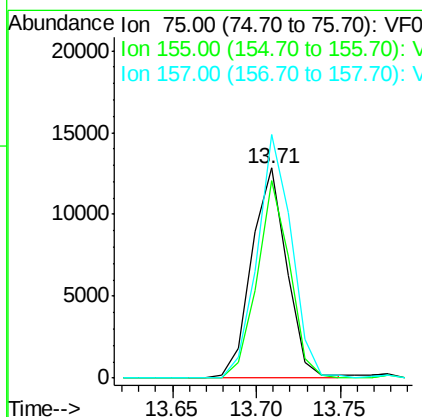
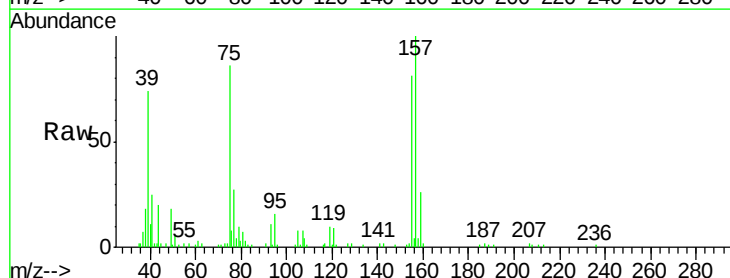
RT: 13.71 min Scan# 1337

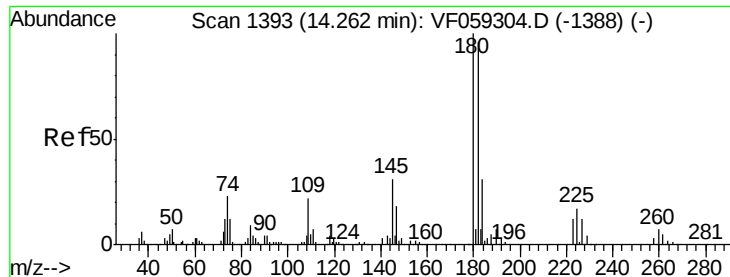
Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	75	Resp:	18536
Ion Ratio	Lower	Upper	
75	100		
155	94.1	54.6	163.8
157	115.8	68.7	205.9





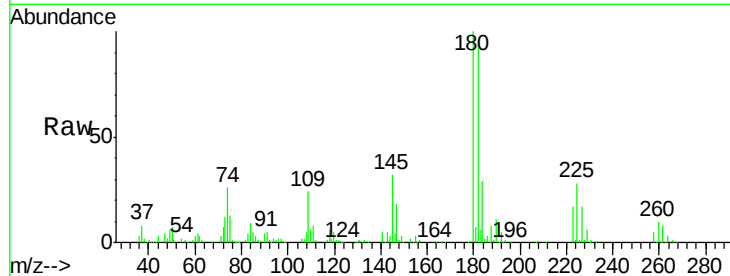
#93
 1,2,4-Trichlorobenzene
 Concen: 21.88 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0627SBS01

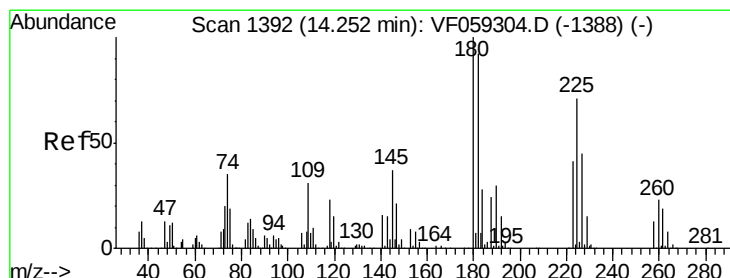
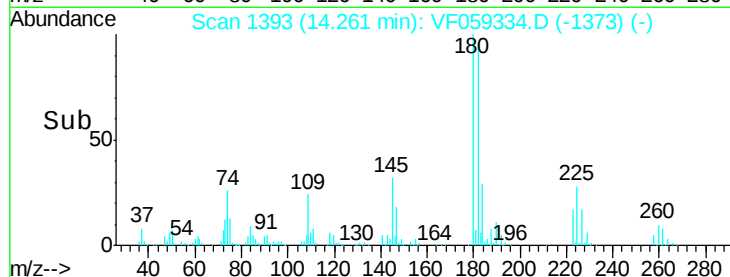
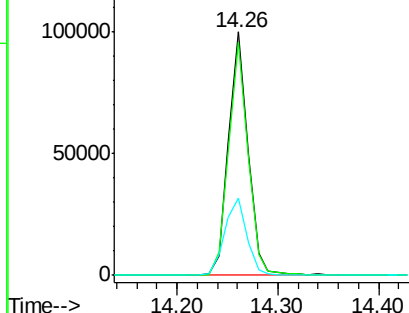
Tot Ion	Ratio	Resp	Lower	Upper
180	100	134772		
182	96.1	48.1	144.3	
145	31.7	15.3	45.8	

Manual Integrations
 APPROVED

apatel
 6/28/2018 11:09:50 AM

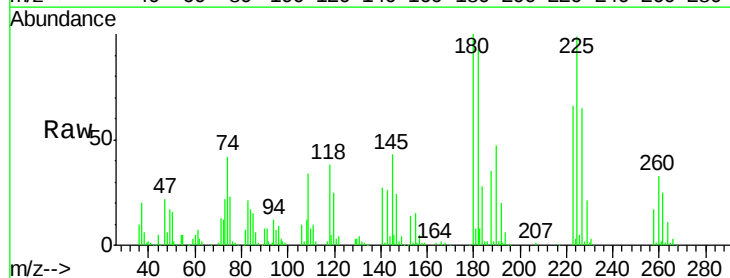


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

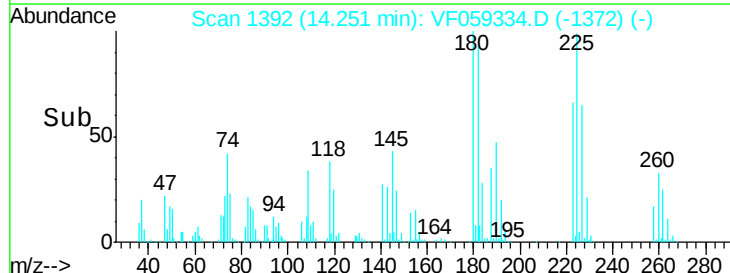
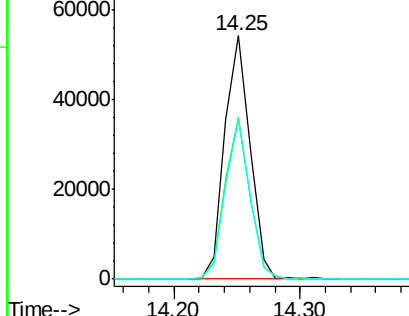


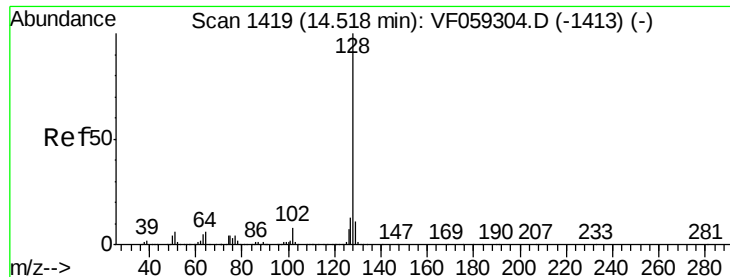
#94
 Hexachlorobutadiene
 Concen: 21.91 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VF059334.D
 Acq: 27 Jun 2018 13:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	75359		
223	66.3	28.9	86.8	
227	65.7	31.3	93.8	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 21.73 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Instrument :

MSVOA_F

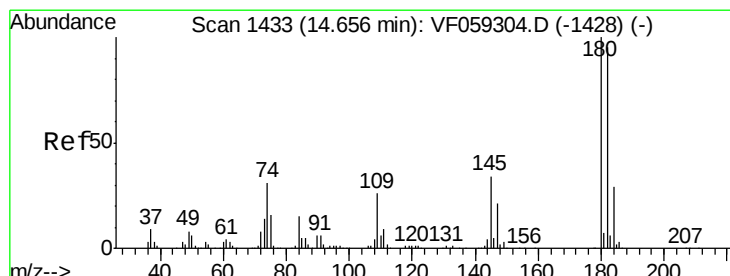
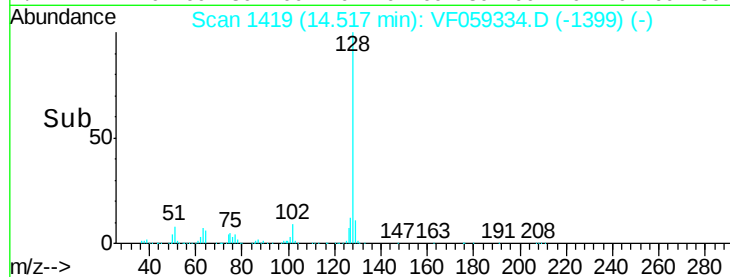
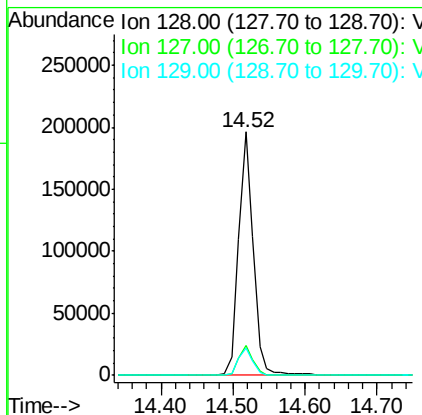
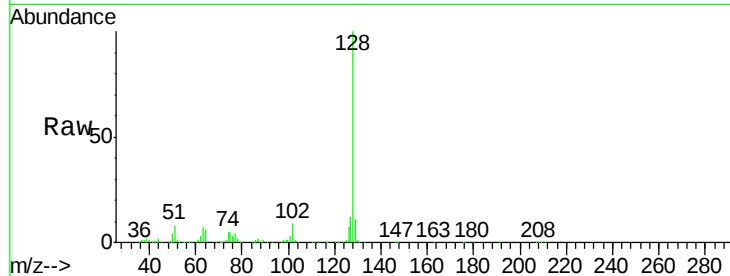
ClientSampleId :

VF0627SBS01

Tot Ion:	128	Resp:	279995
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.1	15.1
129	11.0	8.8	13.2

Manual Integrations
APPROVED

apatel
6/28/2018 11:09:50 AM



#96

1,2,3-Trichlorobenzene

Concen: 21.31 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VF059334.D

Acq: 27 Jun 2018 13:01

Tgt Ion:	180	Resp:	124334
Ion Ratio	Lower	Upper	
180	100		
182	99.8	47.5	142.5
145	31.4	17.0	50.9

