

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\
 Data File : VF059258.D
 Acq On : 21 Jun 2018 12:13
 Operator : VA/AP
 Sample : VF0620SBS02
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Manual Integrations
 APPROVED

apatel
 6/21/2018 4:19:35 PM

Quant Time: Jun 21 14:19:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	247617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	388741	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	385815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	247160	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	161769	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
35) Dibromofluoromethane	4.29	113	145763	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	
50) Toluene-d8	7.71	98	370248	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	
62) 4-Bromofluorobenzene	11.51	95	208440	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	59181	21.12	ug/l	98
3) Chloromethane	1.09	50	36522	16.82	ug/l	97
4) Vinyl Chloride	1.15	62	37814	19.31	ug/l	99
5) Bromomethane	1.33	94	26371	23.11	ug/l	99
6) Chloroethane	1.42	64	19014	23.40	ug/l	90
7) Trichlorofluoromethane	1.48	101	76858m	25.25	ug/l	
8) Diethyl Ether	1.70	74	17073	22.29	ug/l	73
9) 1,1,2-Trichlorotrifluoroet	1.89	101	45610	23.51	ug/l	94
10) Methyl Iodide	1.95	142	74344	21.90	ug/l	93
11) Tert butyl alcohol	2.68	59	22266	115.72	ug/l	94
12) 1,1-Dichloroethene	1.86	96	37744	23.13	ug/l	89
13) Acrolein	2.08	56	10088	60.57	ug/l #	75
14) Allyl chloride	2.18	41	70517	22.02	ug/l	88
15) Acrylonitrile	3.07	53	43140	112.89	ug/l	97
16) Acetone	2.34	43	103182m	143.90	ug/l	
17) Carbon Disulfide	1.87	76	85936	18.76	ug/l	96
18) Methyl Acetate	2.45	43	31141m	25.26	ug/l	
19) Methyl tert-butyl Ether	2.54	73	125217	24.72	ug/l	100
20) Methylene Chloride	2.28	84	41334m	24.08	ug/l	
21) trans-1,2-Dichloroethene	2.41	96	38480	21.50	ug/l	87
22) Diisopropyl ether	2.92	45	144883	23.02	ug/l	99
23) Vinyl Acetate	3.33	43	506520	122.04	ug/l	100
24) 1,1-Dichloroethane	3.00	63	90076	23.60	ug/l	99
25) 2-Butanone	4.52	43	119317	107.34	ug/l	97
26) 2,2-Dichloropropane	3.76	77	66203	23.91	ug/l	99
27) cis-1,2-Dichloroethene	3.63	96	56099	20.37	ug/l	86
28) Bromochloromethane	3.89	49	42844	24.94	ug/l #	94
29) Tetrahydrofuran	4.25	42	55326	112.95	ug/l	94
30) Chloroform	4.03	83	130299	23.87	ug/l	95
31) Cyclohexane	3.87	56	61962	18.59	ug/l	97
32) 1,1,1-Trichloroethane	4.27	97	98554	24.18	ug/l	93
36) 1,1-Dichloropropene	4.46	75	83985	22.29	ug/l	96
37) Ethyl Acetate	4.28	43	52793	22.68	ug/l	91
38) Carbon Tetrachloride	4.17	117	107053	26.21	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\
 Data File : VF059258.D
 Acq On : 21 Jun 2018 12:13
 Operator : VA/AP
 Sample : VF0620SBS02
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0620SBS02

Manual Integrations
 APPROVED

apatel
 6/21/2018 4:19:35 PM

Quant Time: Jun 21 14:19:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 10:52:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	81688	21.27	ug/l	96
40) Benzene	4.80	78	182220	20.83	ug/l	97
41) Methacrylonitrile	4.92	41	25497	22.29	ug/l	95
42) 1,2-Dichloroethane	5.11	62	100255	25.56	ug/l	99
43) Isopropyl Acetate	7.11	43	64640	20.73	ug/l #	94
44) Trichloroethene	5.67	130	62781	22.97	ug/l	94
45) 1,2-Dichloropropane	6.40	63	56054	22.23	ug/l	96
46) Dibromomethane	6.25	93	44386	23.39	ug/l #	82
47) Bromodichloromethane	6.55	83	103163	23.90	ug/l	94
48) Methyl methacrylate	6.87	41	40413	21.02	ug/l	96
49) 1,4-Dioxane	6.86	88	4459	304.28	ug/l #	85
51) 4-Methyl-2-Pentanone	8.40	43	250748	117.33	ug/l	97
52) Toluene	7.78	92	135513	21.51	ug/l	93
53) t-1,3-Dichloropropene	8.42	75	96992	23.20	ug/l	100
54) cis-1,3-Dichloropropene	7.45	75	110705	23.05	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	50874	22.29	ug/l	94
56) Ethyl methacrylate	8.76	69	59803	20.78	ug/l	96
57) 1,3-Dichloropropane	9.00	76	90193	23.10	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.78	63	23797	115.66	ug/l	100
59) 2-Hexanone	9.63	43	217153	128.46	ug/l	97
60) Dibromochloromethane	8.86	129	80022	24.39	ug/l	98
61) 1,2-Dibromoethane	9.14	107	60337	22.75	ug/l	97
64) Tetrachloroethene	8.30	164	61118	21.60	ug/l	97
65) Chlorobenzene	9.94	112	180338	23.60	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	74356	24.47	ug/l	92
67) Ethyl Benzene	10.04	91	300843	22.66	ug/l	99
68) m/p-Xylenes	10.27	106	217298	43.72	ug/l	90
69) o-Xylene	10.83	106	129074	24.03	ug/l	100
70) Styrene	10.90	104	185320	22.80	ug/l	97
71) Bromoform	10.88	173	50536	24.49	ug/l #	93
73) Isopropylbenzene	11.23	105	355227	20.76	ug/l	100
74) N-amyl acetate	11.47	43	126140	20.64	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.78	83	86244	21.26	ug/l	99
76) 1,2,3-Trichloropropane	11.89	75	65487	21.86	ug/l	97
77) Bromobenzene	11.59	156	94101	21.85	ug/l	90
78) n-propylbenzene	11.69	91	431894	21.32	ug/l	98
79) 2-Chlorotoluene	11.81	91	255580	21.36	ug/l	94
80) 1,3,5-Trimethylbenzene	11.91	105	319415	22.55	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.96	75	39300	20.23	ug/l	95
82) 4-Chlorotoluene	11.99	91	273394	21.46	ug/l	97
83) tert-Butylbenzene	12.22	119	312923	22.25	ug/l	100
84) 1,2,4-Trimethylbenzene	12.28	105	317837	21.66	ug/l	92
85) sec-Butylbenzene	12.39	105	415664	21.75	ug/l	100
86) p-Isopropyltoluene	12.54	119	351429	22.39	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	176760	22.23	ug/l	96
88) 1,4-Dichlorobenzene	12.65	146	171165	22.34	ug/l	97
89) n-Butylbenzene	12.92	91	356794	19.97	ug/l	92
90) Hexachloroethane	12.99	117	83966	21.72	ug/l	87
91) 1,2-Dichlorobenzene	13.02	146	177577	23.18	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.71	75	16982	21.34	ug/l	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062018\
Data File : VF059258.D
Acq On : 21 Jun 2018 12:13
Operator : VA/AP
Sample : VF0620SBSD02
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBSD02

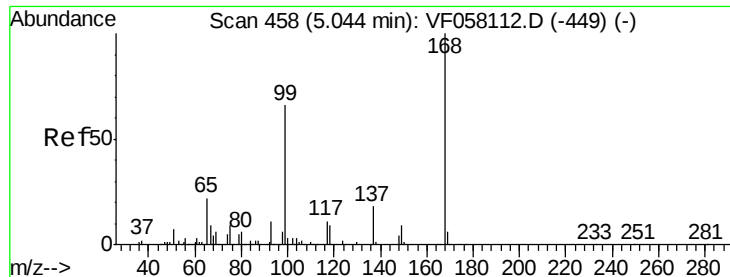
Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM

Quant Time: Jun 21 14:19:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F060618S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 07 10:52:00 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	131150	24.48	ug/l	95
94) Hexachlorobutadiene	14.26	225	74905	24.16	ug/l	95
95) Naphthalene	14.52	128	251100	21.94	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	119523	24.14	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion:168 Resp: 247617

Ion Ratio Lower Upper

168 100

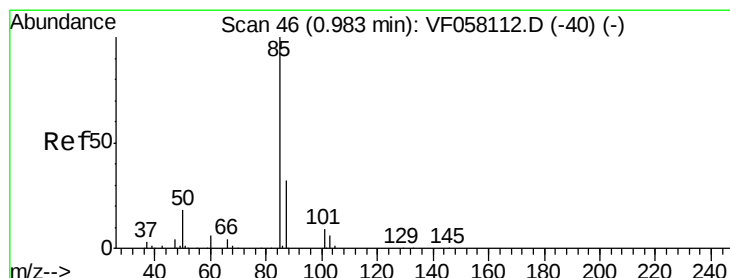
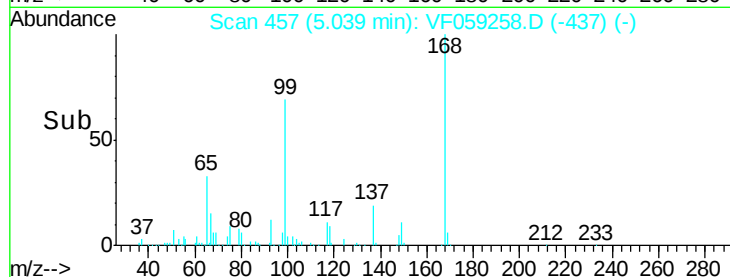
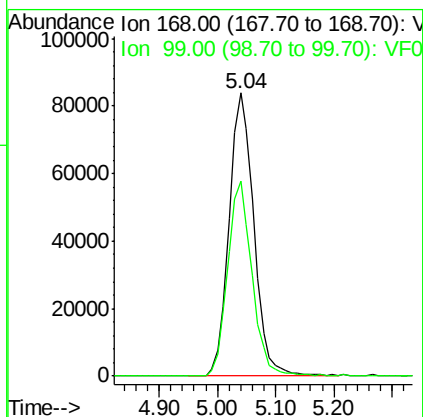
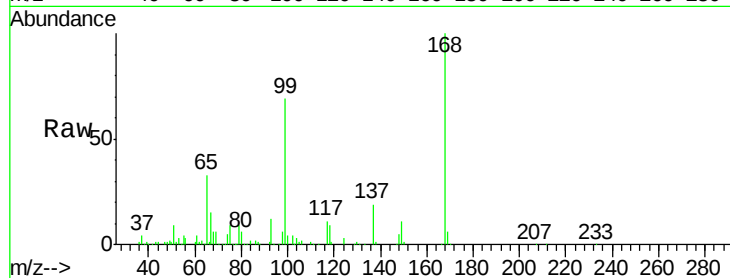
99 68.8 52.9 79.3

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#2

Dichlorodifluoromethane

Concen: 21.12 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059258.D

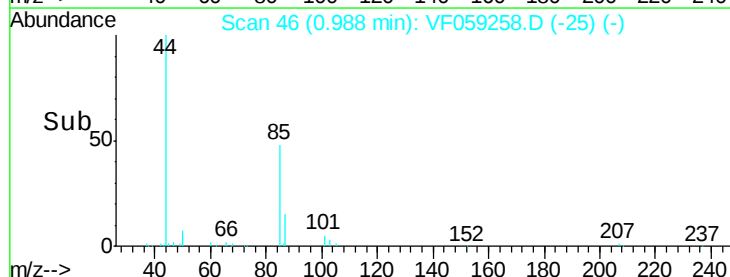
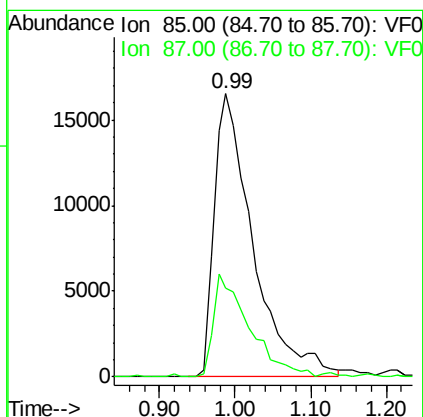
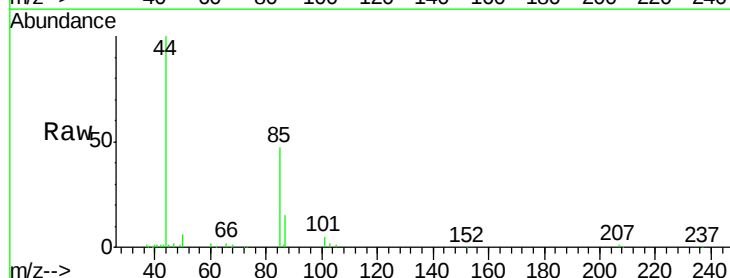
Acq: 21 Jun 2018 12:13

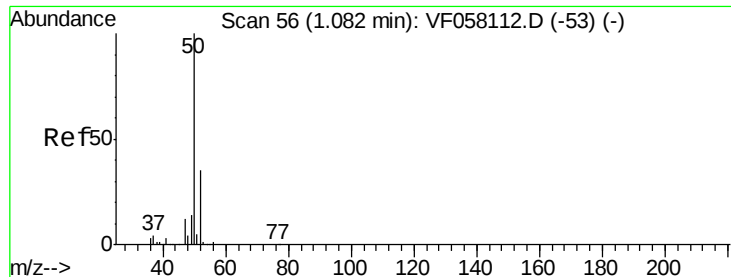
Tgt Ion: 85 Resp: 59181

Ion Ratio Lower Upper

85 100

87 31.4 16.2 48.6





#3

Chloromethane

Concen: 16.82 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 50 Resp: 36522

Ion Ratio Lower Upper

50 100

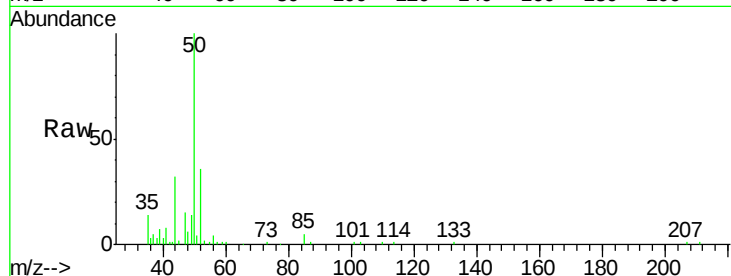
52 35.9 27.3 40.9

Manual Integrations

APPROVED

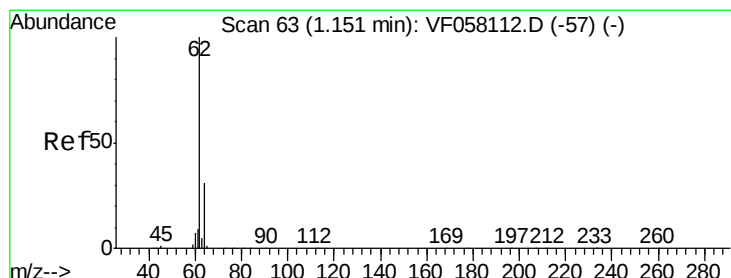
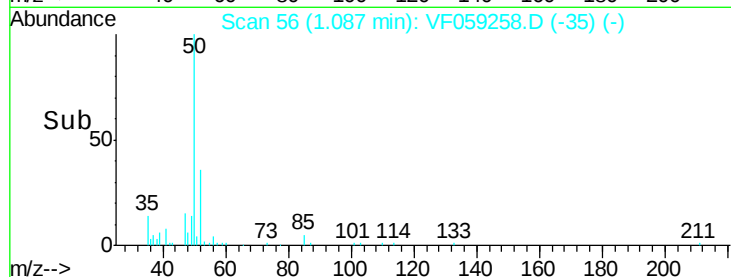
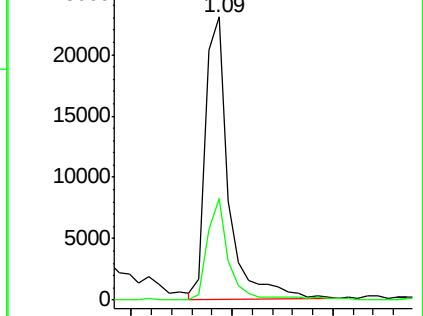
apatel

6/21/2018 4:19:35 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 19.31 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059258.D

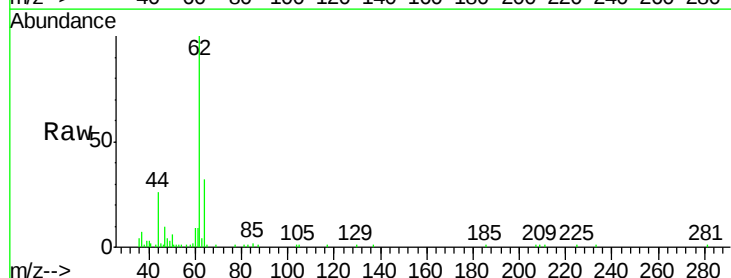
Acq: 21 Jun 2018 12:13

Tgt Ion: 62 Resp: 37814

Ion Ratio Lower Upper

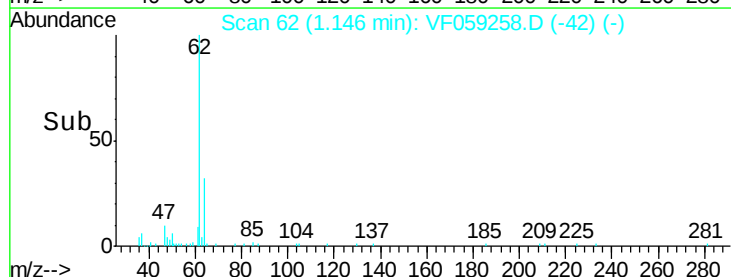
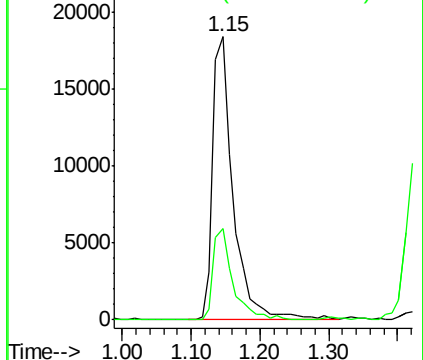
62 100

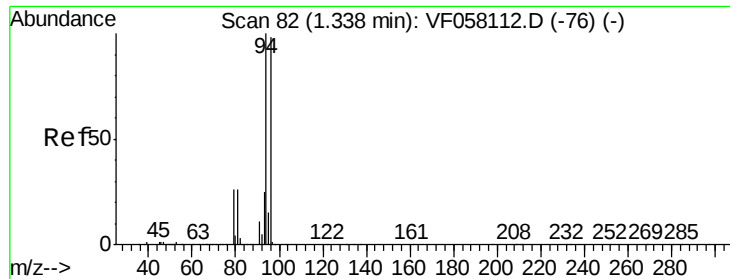
64 32.1 25.0 37.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 23.11 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 94 Resp: 26371

Ion Ratio Lower Upper

94 100

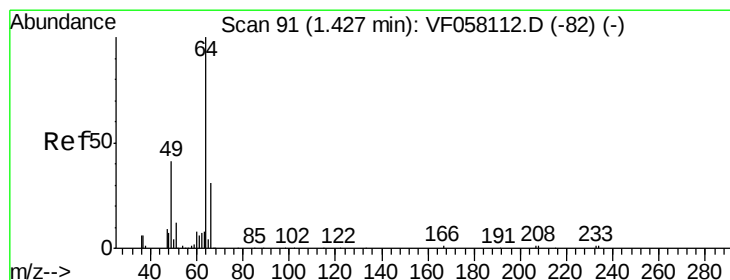
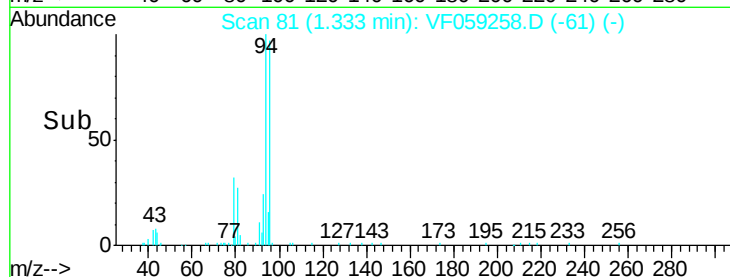
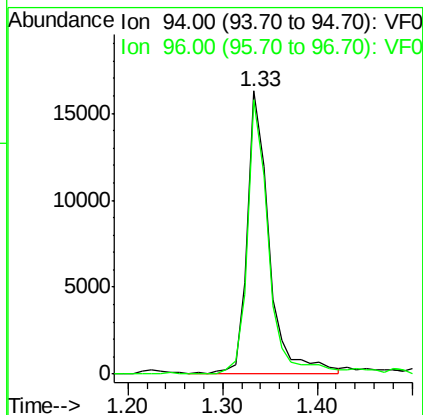
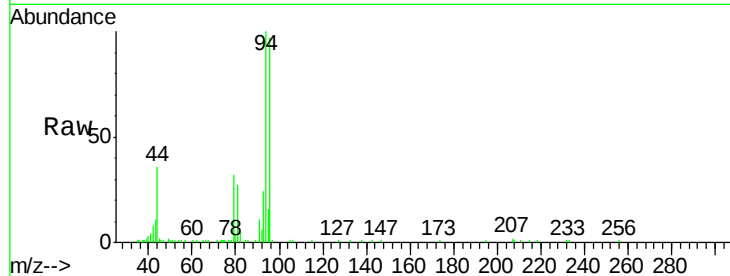
96 96.7 78.6 117.8

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#6

Chloroethane

Concen: 23.40 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VF059258.D

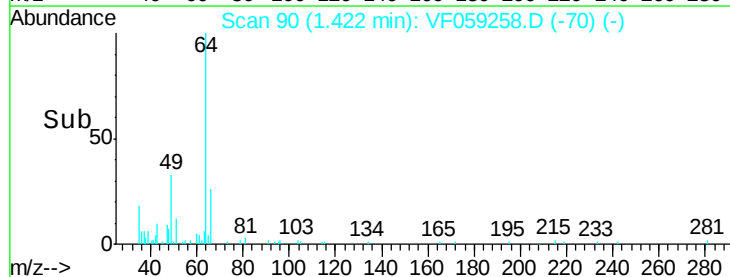
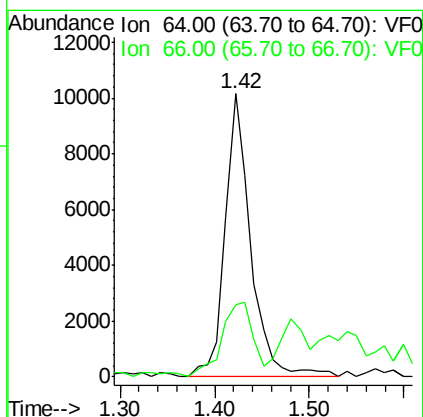
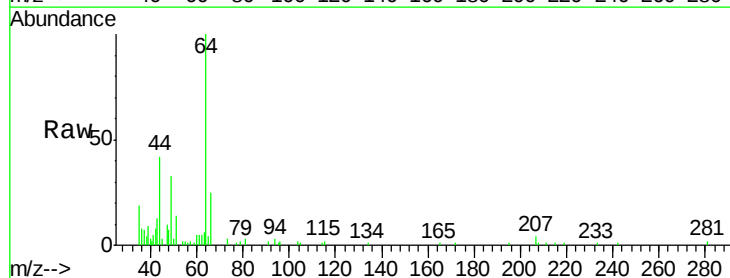
Acq: 21 Jun 2018 12:13

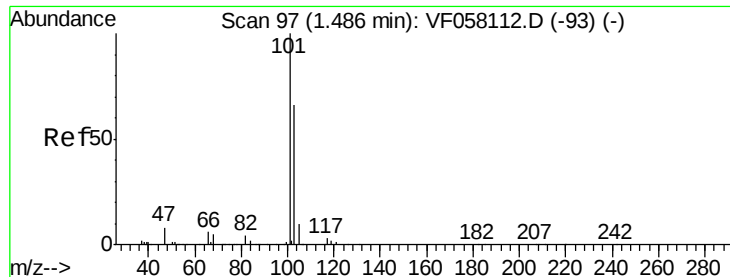
Tgt Ion: 64 Resp: 19014

Ion Ratio Lower Upper

64 100

66 25.5 24.9 37.3





#7

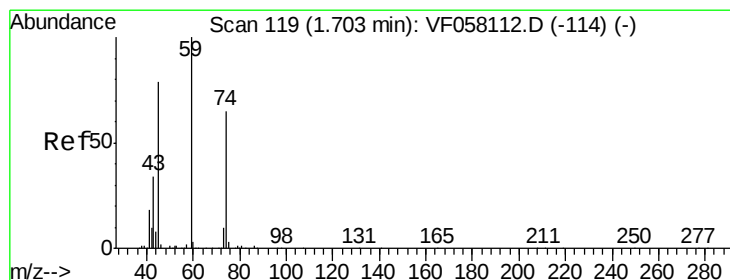
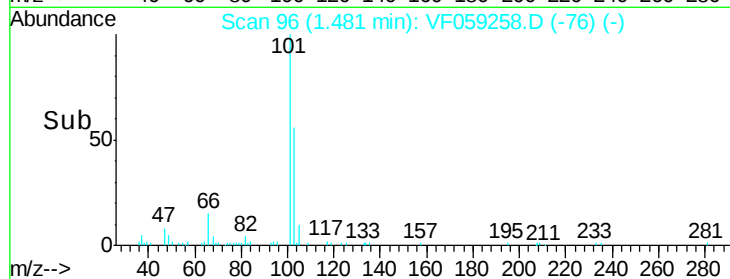
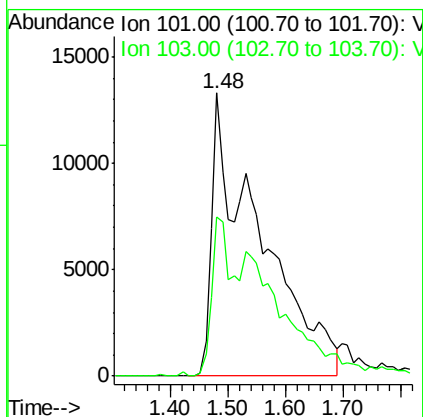
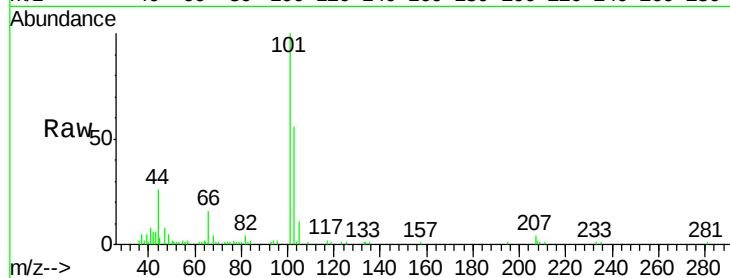
Trichlorofluoromethane
 Concen: 25.25 ug/l m
 RT: 1.48 min Scan# 96
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.2	53.4	80.2

Manual Integrations
 APPROVED

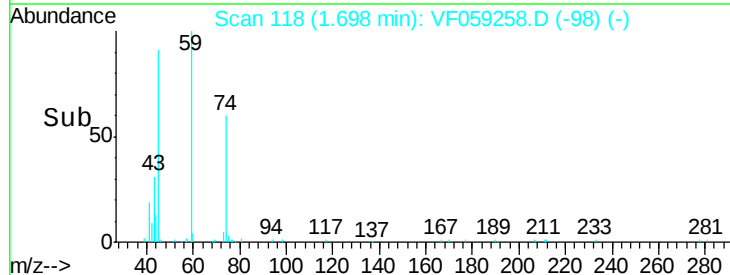
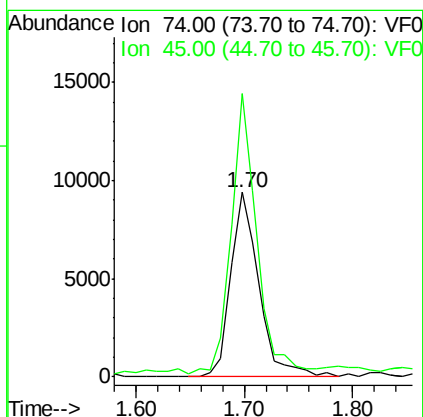
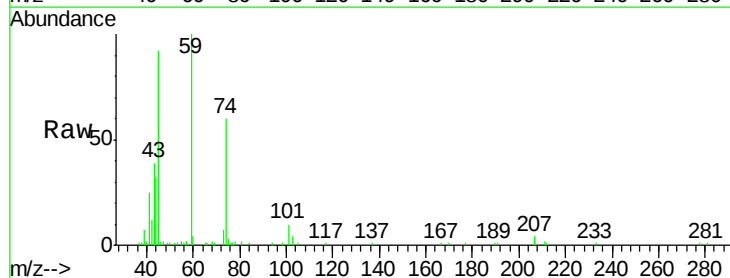
apatel
 6/21/2018 4:19:35 PM



#8

Diethyl Ether
 Concen: 22.29 ug/l
 RT: 1.70 min Scan# 118
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	153.5	61.5	184.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.51 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

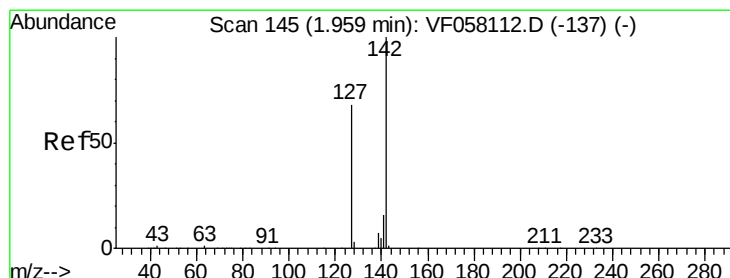
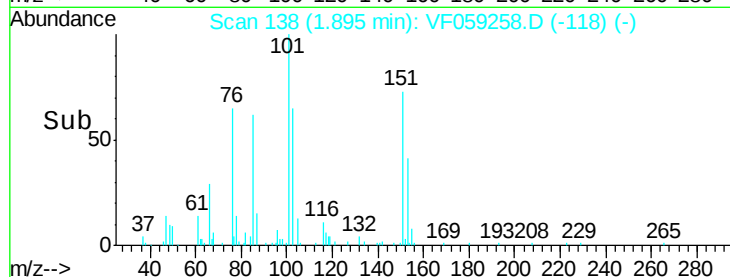
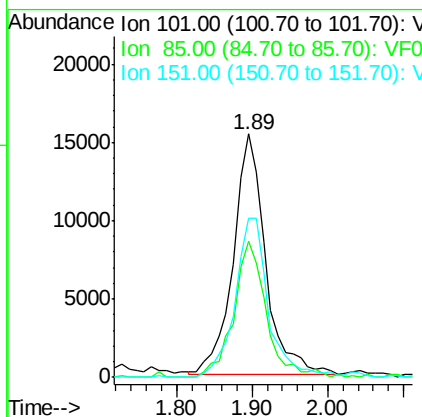
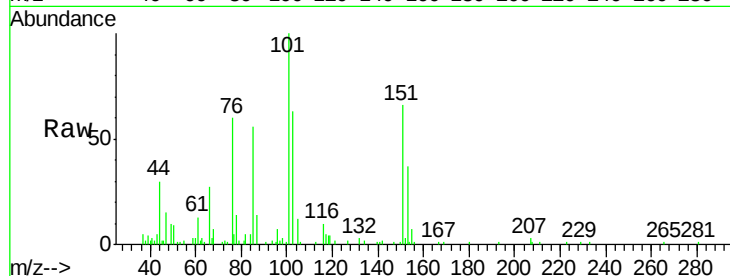
ClientSampleId :

VF0620SBS02

Tot Ion:	101	Resp:	45610
Ion Ratio	Lower	Upper	
101	100		
85	55.9	42.2	63.4
151	65.5	56.8	85.2

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#10

Methyl Iodide

Concen: 21.90 ug/l

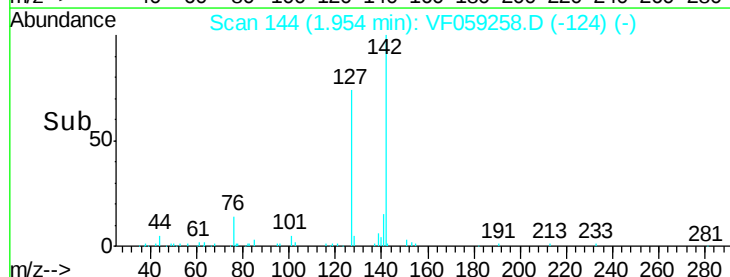
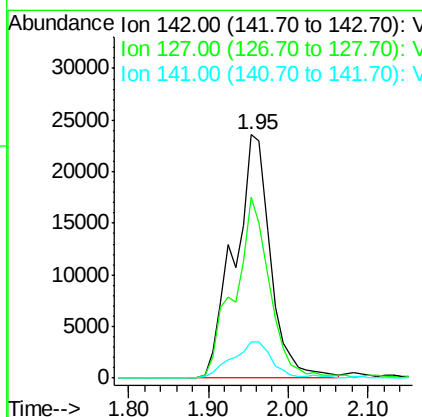
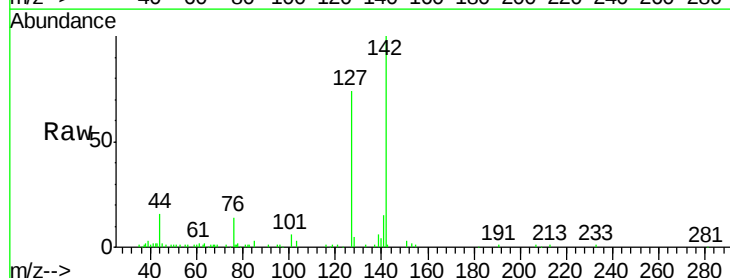
RT: 1.95 min Scan# 144

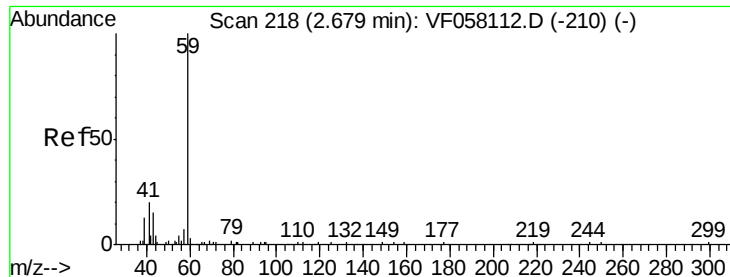
Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	142	Resp:	74344
Ion Ratio	Lower	Upper	
142	100		
127	74.5	54.1	81.1
141	15.1	13.0	19.4





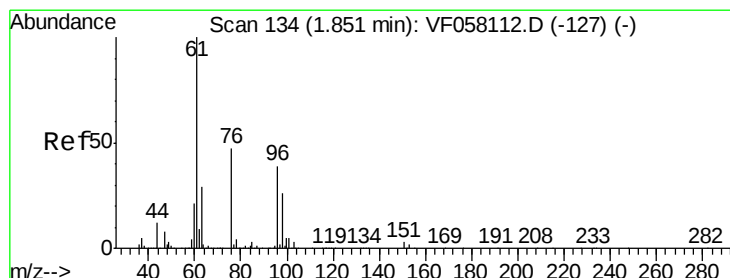
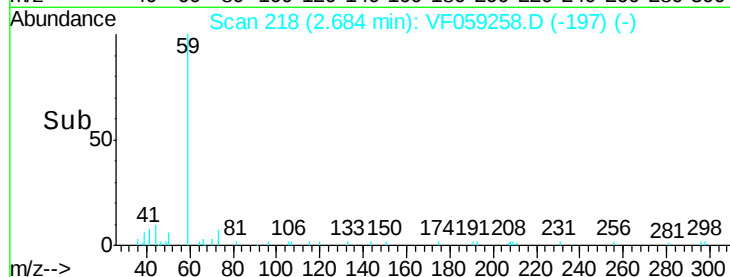
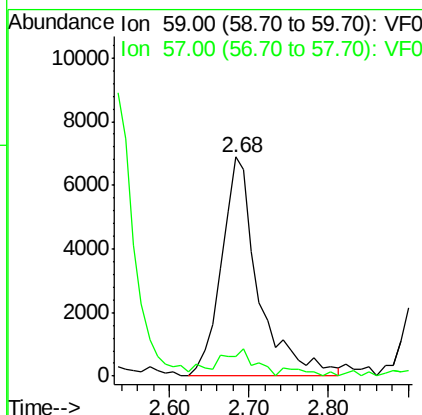
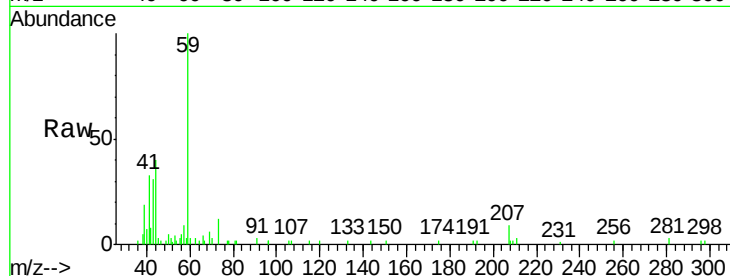
#11
Tert butyl alcohol
Concen: 115.72 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.8	8.7	13.1

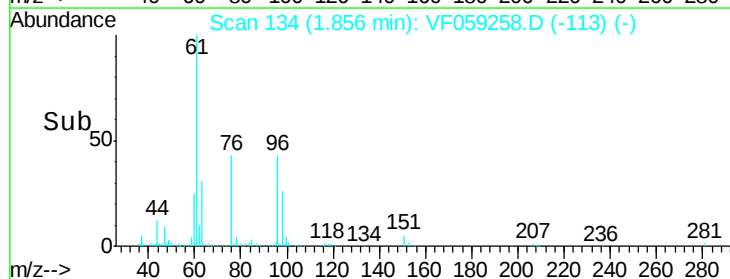
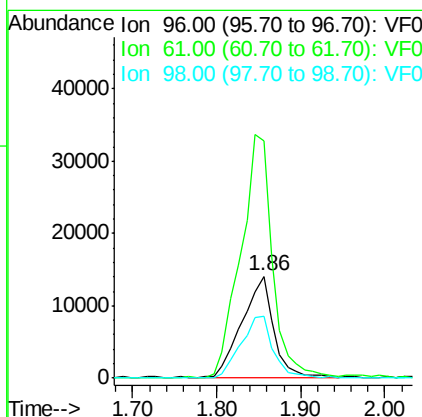
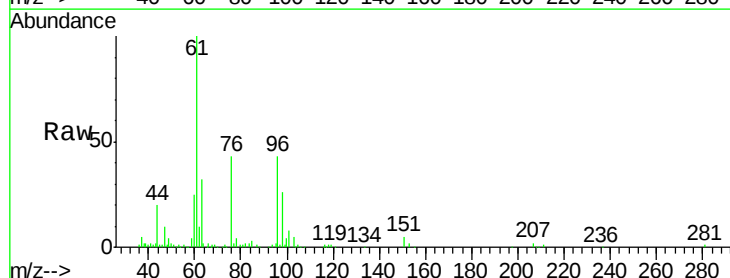
Manual Integrations
APPROVED

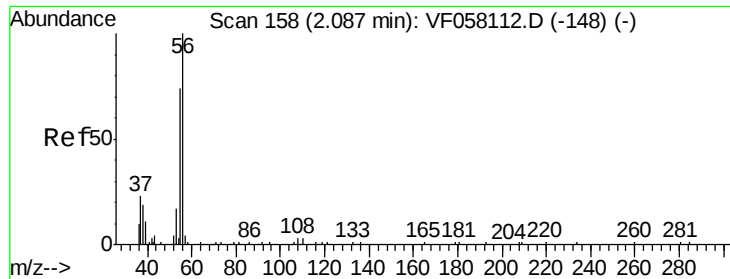
apatel
6/21/2018 4:19:35 PM



#12
1,1-Dichloroethene
Concen: 23.13 ug/l
RT: 1.86 min Scan# 134
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	233.1	203.0	304.4
98	60.4	52.7	79.1





#13

Acrolein

Concen: 60.57 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 56 Resp: 10088

Ion Ratio Lower Upper

56 100

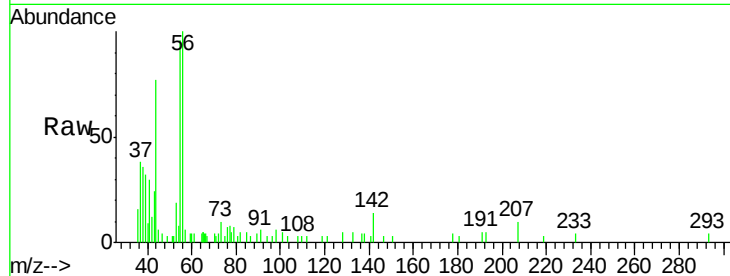
55 96.3 60.0 90.0#

Manual Integrations

APPROVED

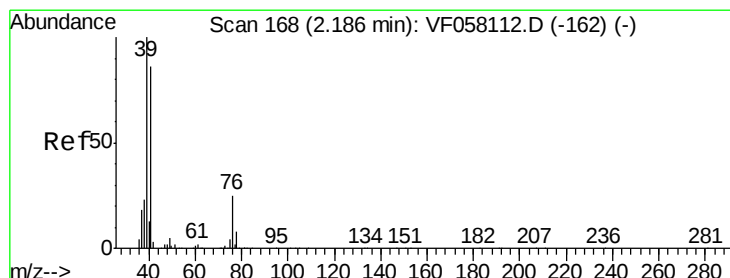
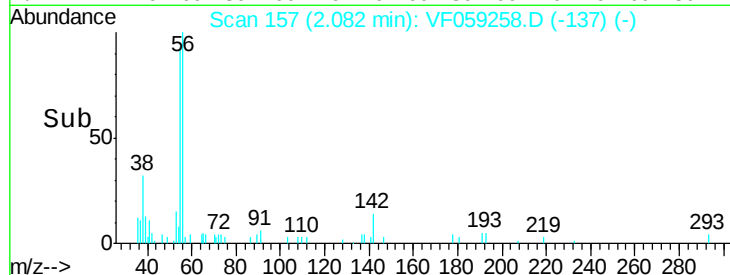
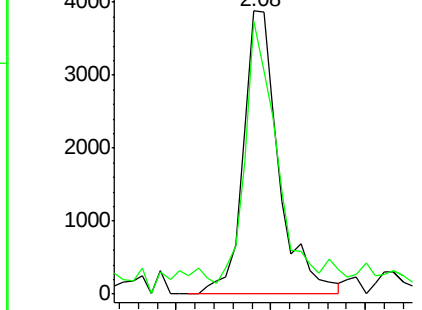
apatel

6/21/2018 4:19:35 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 22.02 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

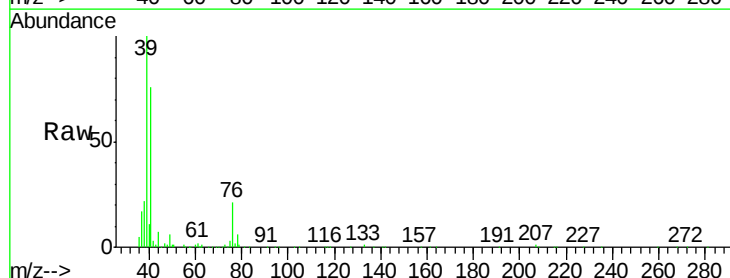
Tgt Ion: 41 Resp: 70517

Ion Ratio Lower Upper

41 100

39 132.1 93.5 140.3

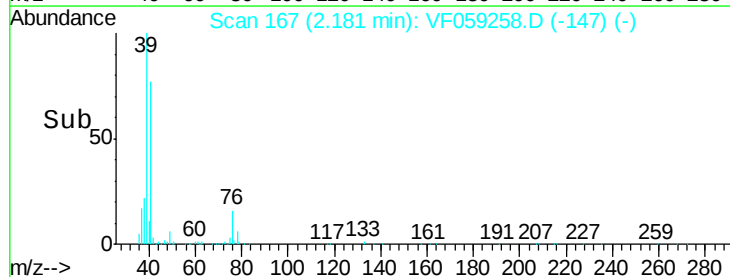
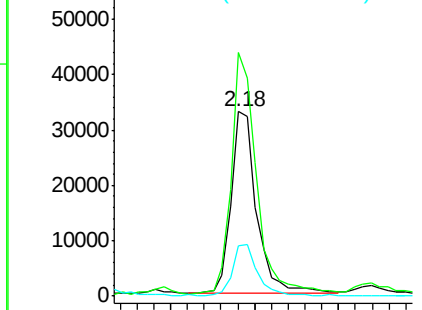
76 27.5 23.9 35.9

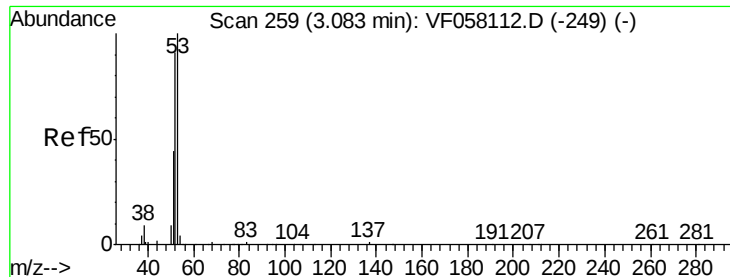


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 112.89 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

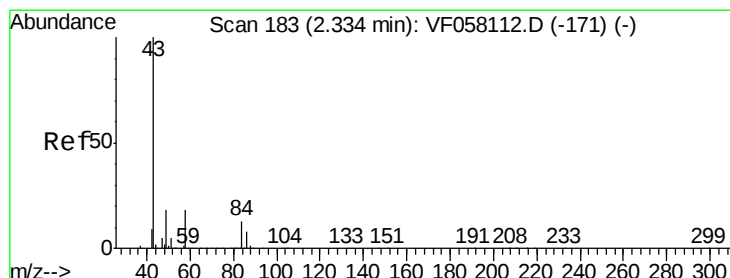
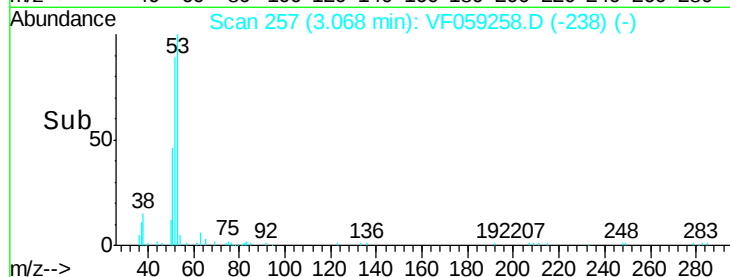
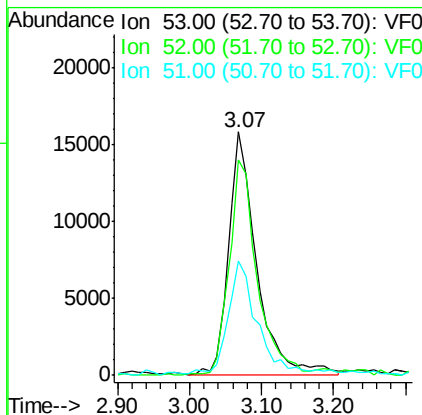
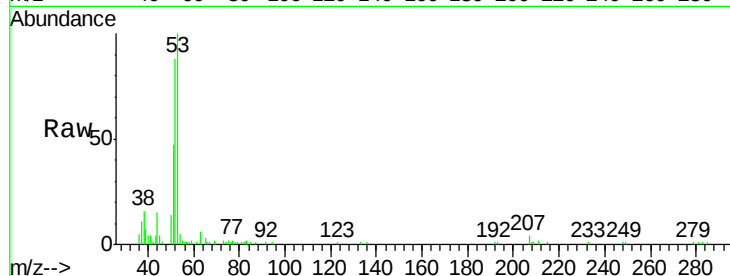
ClientSampleId :

VF0620SBS02

Tot Ion:	53	Resp:	43140
Ion	Ratio	Lower	Upper
53	100		
52	88.4	73.2	109.8
51	47.1	35.6	53.4

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#16

Acetone

Concen: 143.90 ug/l m

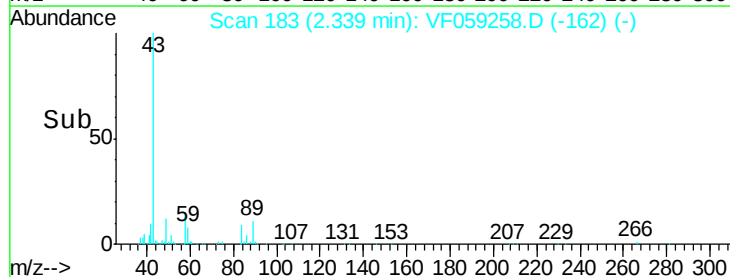
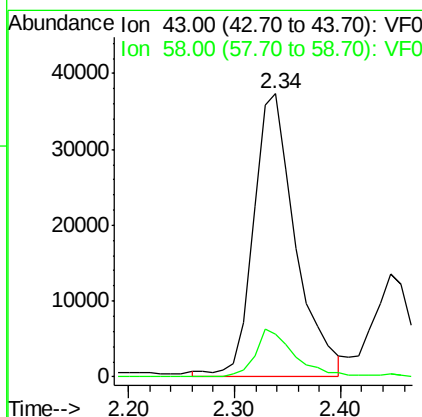
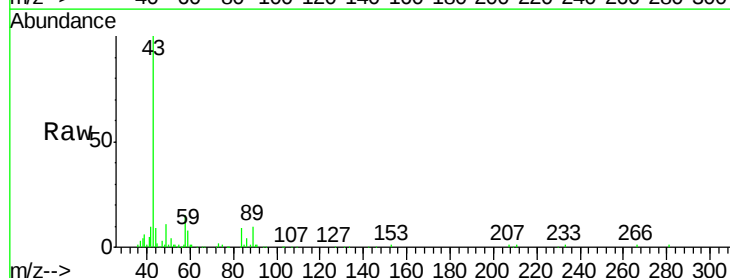
RT: 2.34 min Scan# 183

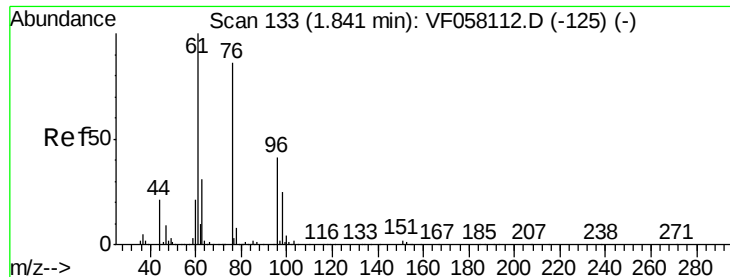
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	43	Resp:	103182
Ion	Ratio	Lower	Upper
43	100		
58	15.1	14.4	21.6





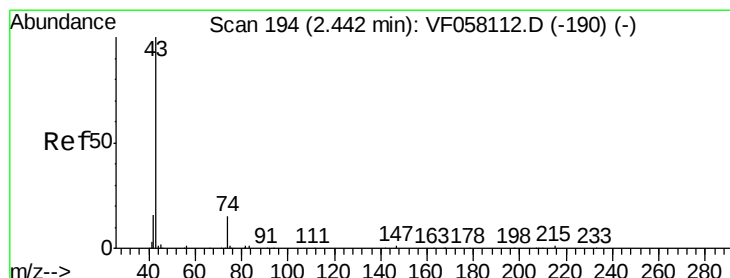
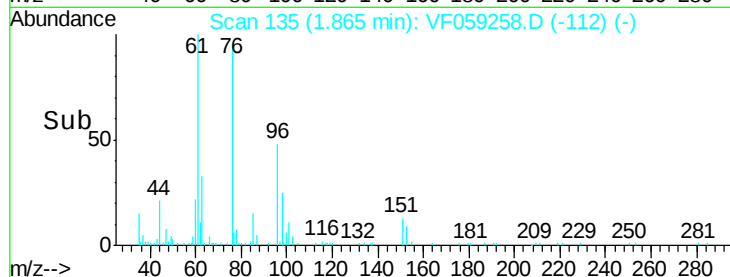
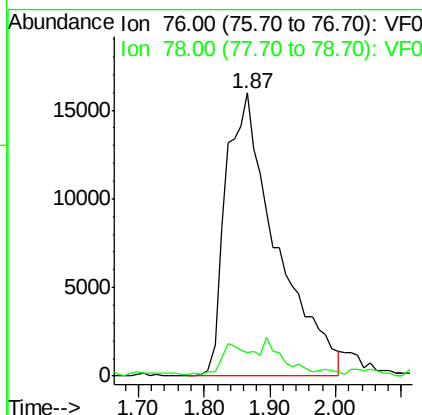
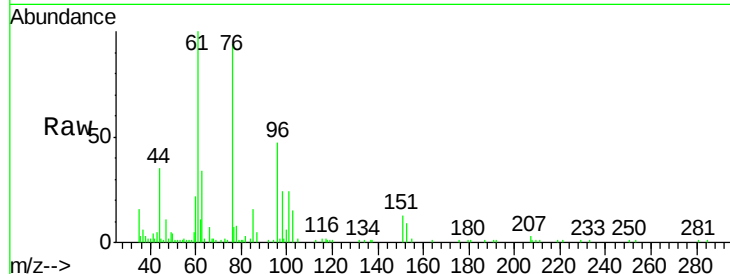
#17
Carbon Disulfide
Concen: 18.76 ug/l
RT: 1.87 min Scan# 135
Delta R.T. 0.02 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.8	11.8

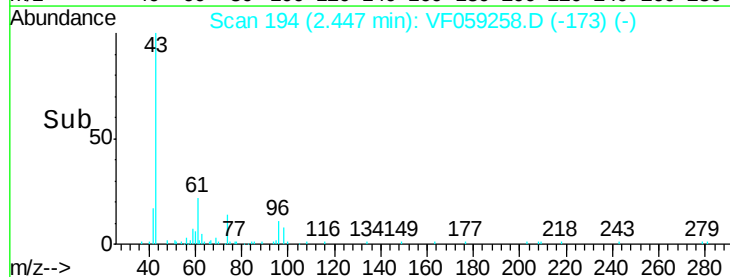
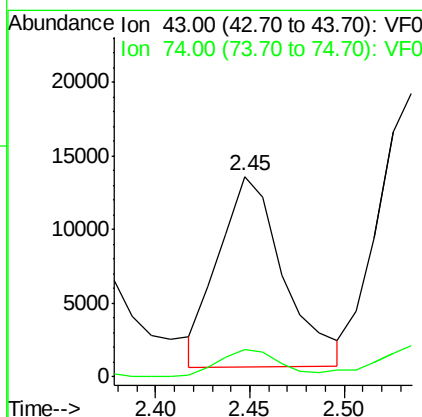
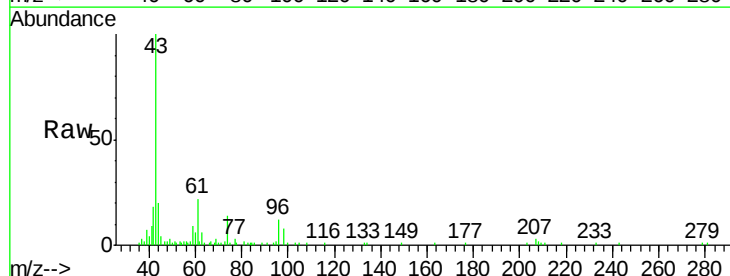
Manual Integrations
APPROVED

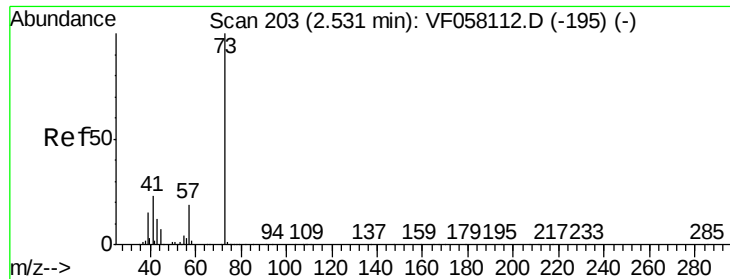
apatel
6/21/2018 4:19:35 PM



#18
Methyl Acetate
Concen: 25.26 ug/l m
RT: 2.45 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
43	100		
74	13.7	10.9	16.3





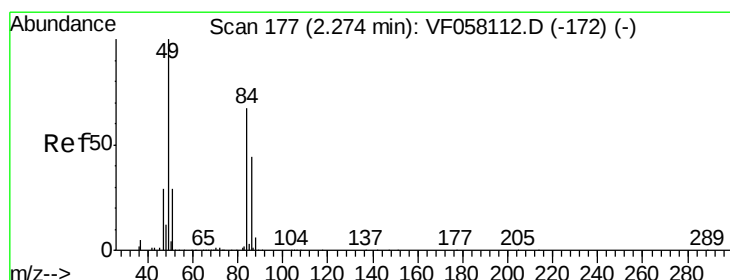
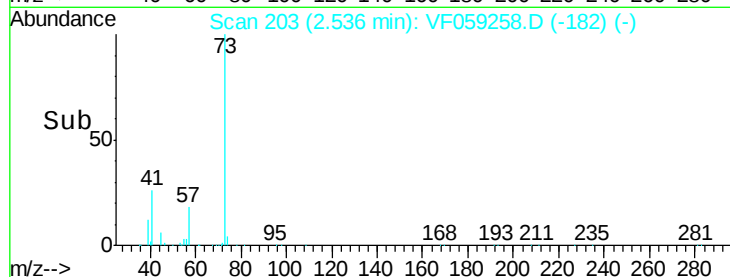
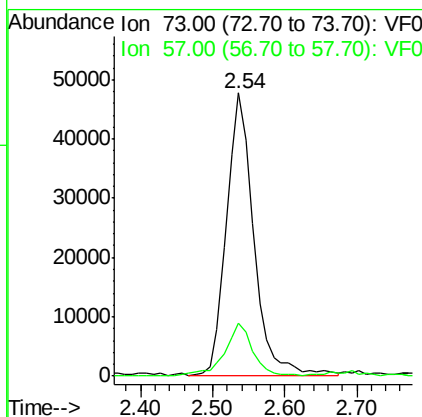
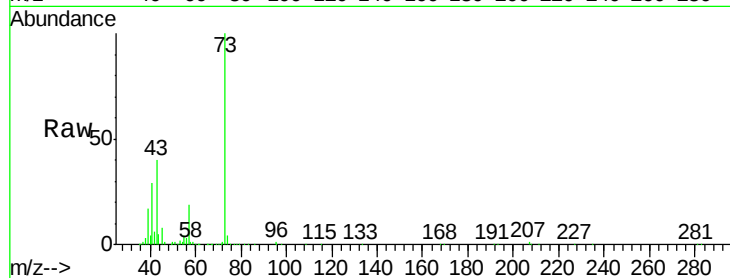
#19
Methyl tert-butyl Ether
Concen: 24.72 ug/l
RT: 2.54 min Scan# 203
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleID :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.6	15.0	22.4

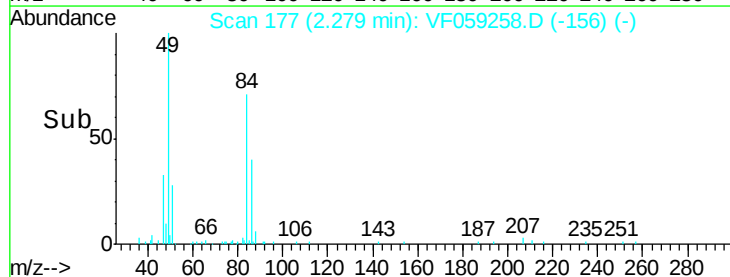
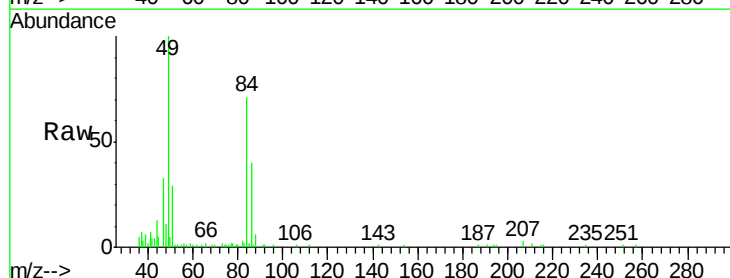
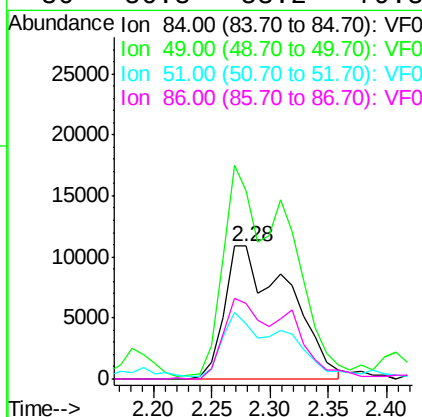
Manual Integrations
APPROVED

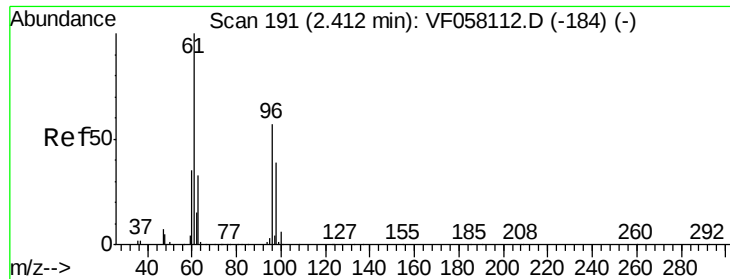
apatel
6/21/2018 4:19:35 PM



#20
Methylene Chloride
Concen: 24.08 ug/l m
RT: 2.28 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.5	121.0	181.4
51	41.5	35.8	53.6
86	56.8	53.2	79.8





#21

trans-1,2-Dichloroethene

Concen: 21.50 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

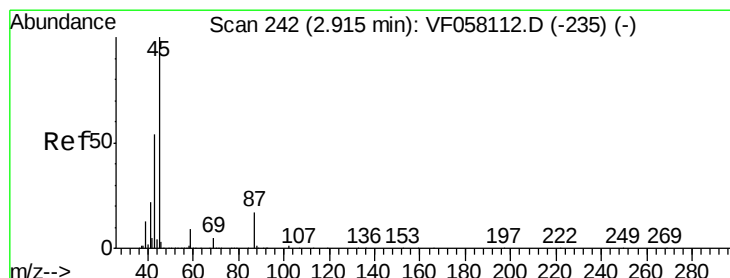
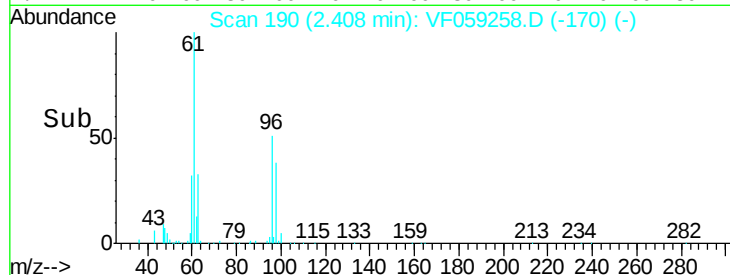
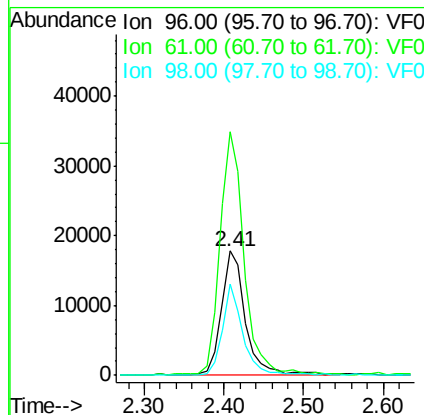
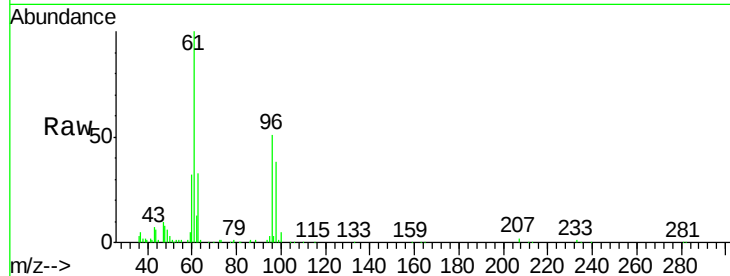
ClientSampleId :

VF0620SBS02

Tot Ion:	96	Resp:	38480
Ion	Ratio	Lower	Upper
96	100		
61	195.6	139.4	209.2
98	73.5	54.0	81.0

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#22

Diisopropyl ether

Concen: 23.02 ug/l

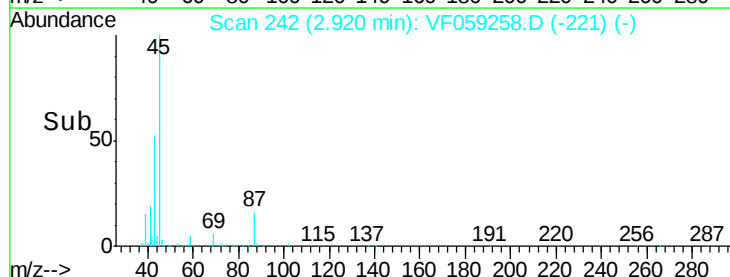
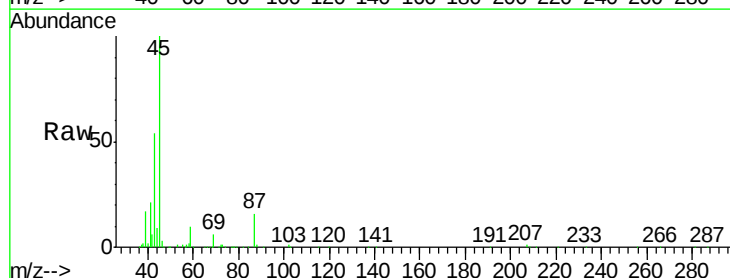
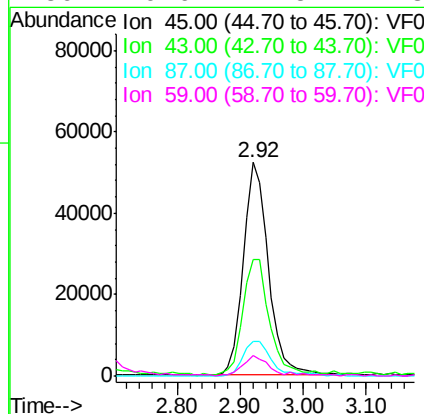
RT: 2.92 min Scan# 242

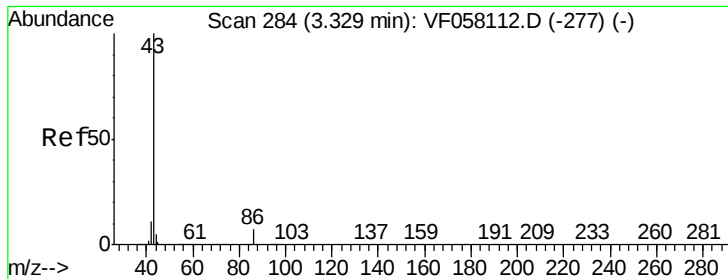
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	45	Resp:	144883
Ion	Ratio	Lower	Upper
45	100		
43	54.5	43.2	64.8
87	16.0	13.8	20.6
59	9.6	7.5	11.3





#23

Vinyl Acetate

Concen: 122.04 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 43 Resp: 506520

Ion Ratio Lower Upper

43 100

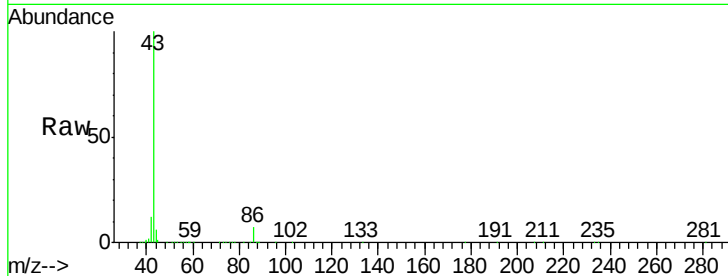
86 7.4 6.0 9.0

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

200000

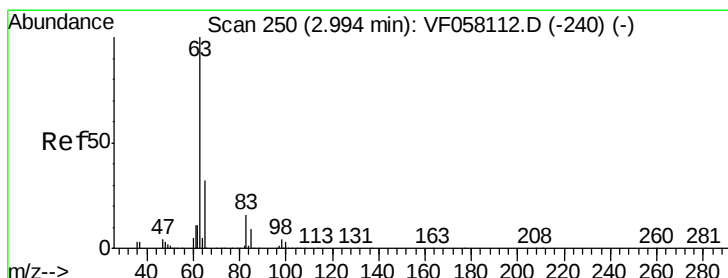
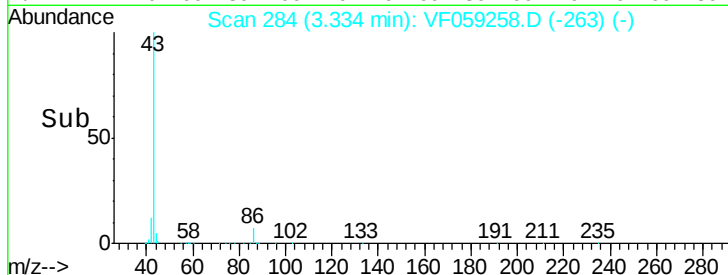
150000

100000

50000

0

Time--> 3.10 3.20 3.30 3.40 3.50



#24

1,1-Dichloroethane

Concen: 23.60 ug/l

RT: 3.00 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

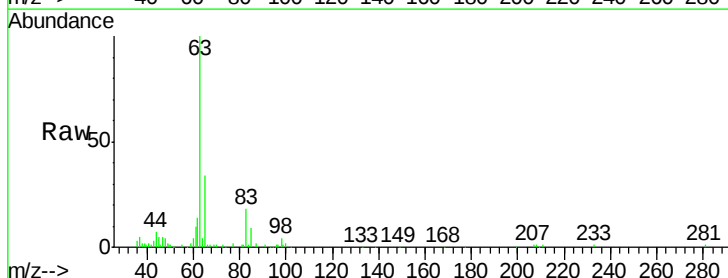
Tgt Ion: 63 Resp: 90076

Ion Ratio Lower Upper

63 100

98 4.2 2.0 6.0

100 2.2 1.4 4.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

3.00

40000

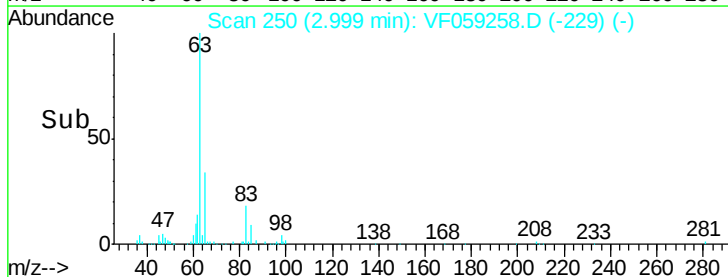
30000

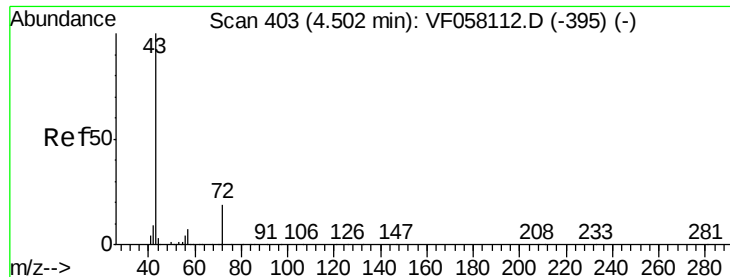
20000

10000

0

Time--> 2.90 3.00 3.10





#25

2-Butanone

Concen: 107.34 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 43 Resp: 119317

Ion Ratio Lower Upper

43 100

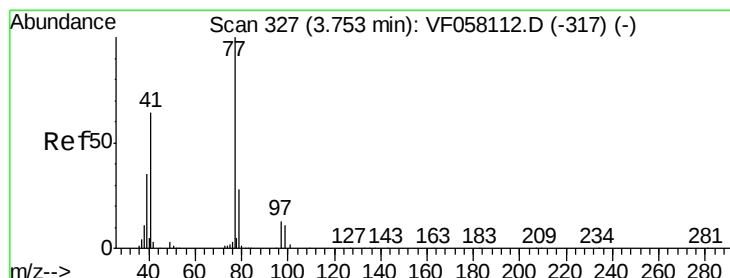
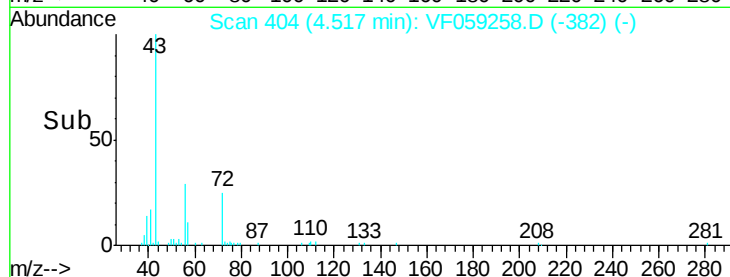
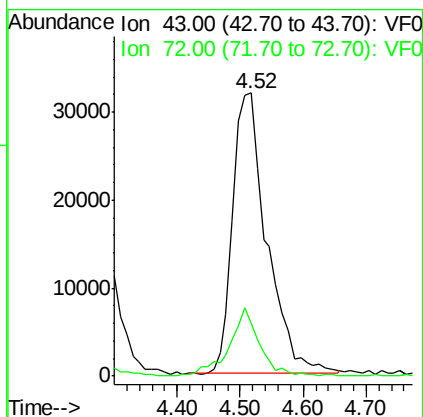
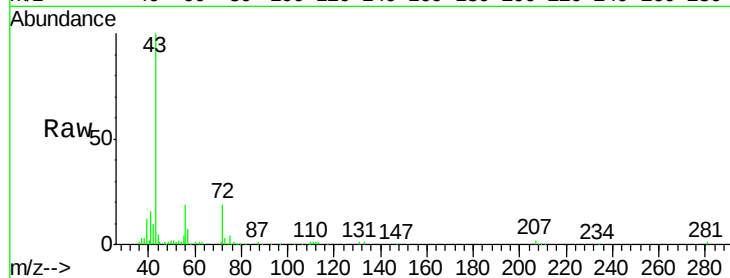
72 18.8 16.1 24.1

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#26

2,2-Dichloropropane

Concen: 23.91 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF059258.D

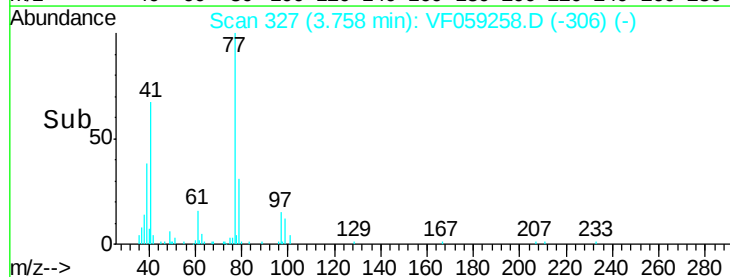
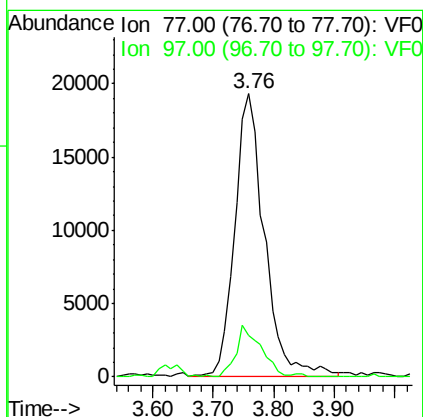
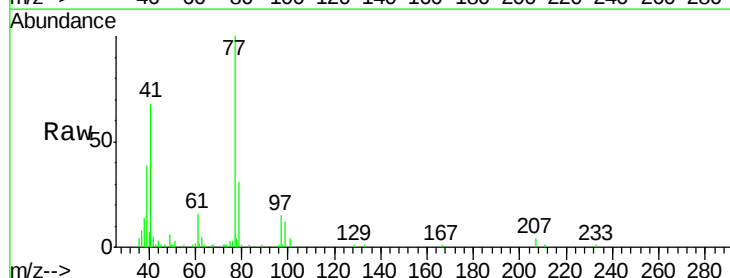
Acq: 21 Jun 2018 12:13

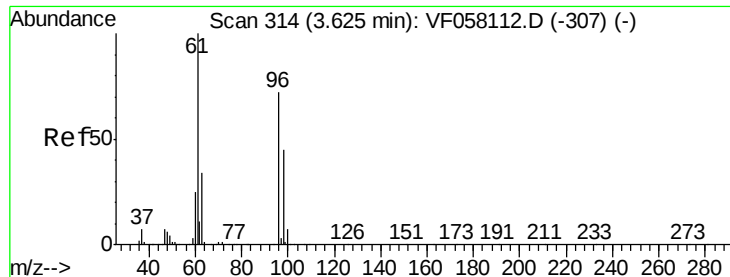
Tgt Ion: 77 Resp: 66203

Ion Ratio Lower Upper

77 100

97 14.6 7.2 21.6





#27

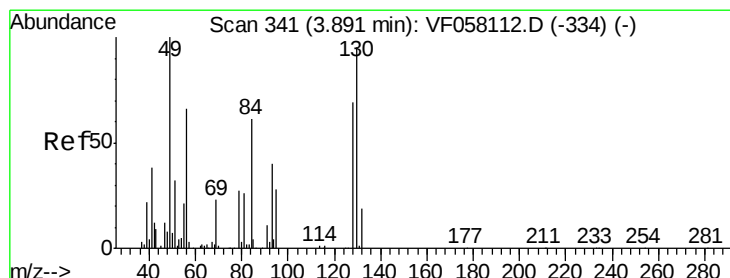
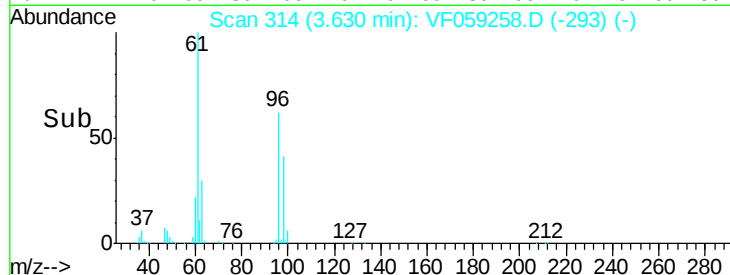
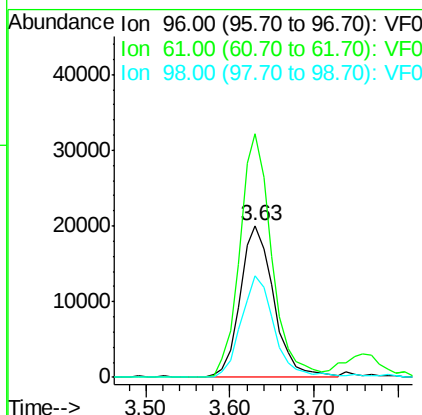
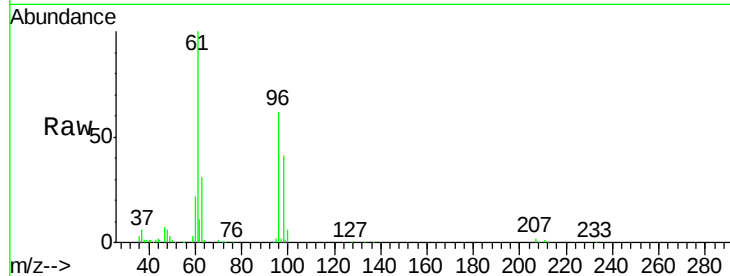
cis-1,2-Dichloroethene
Concen: 20.37 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	56099		
61	160.3		0.0	278.6
98	66.5		0.0	125.2

Manual Integrations
APPROVED

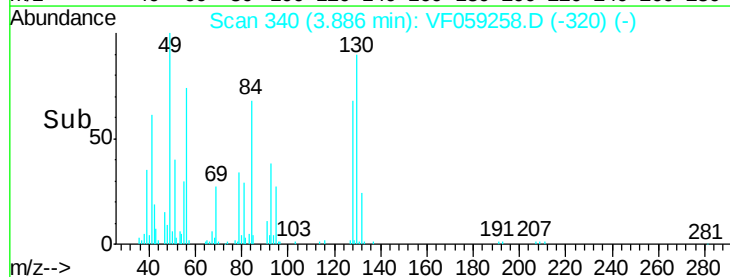
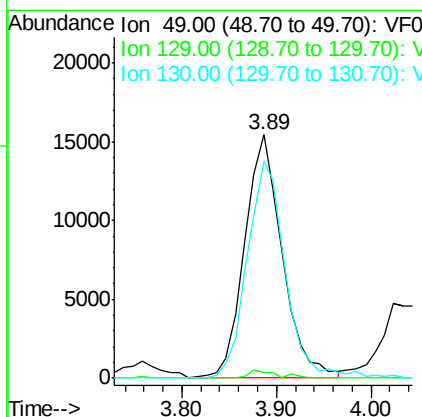
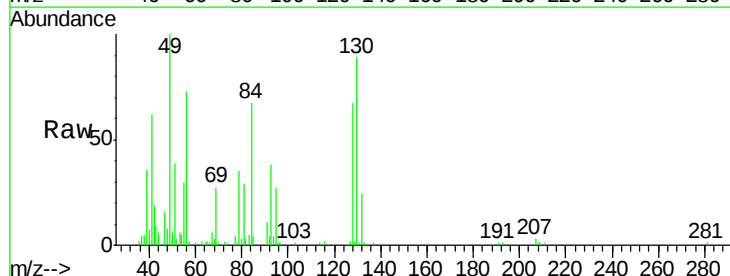
apatel
6/21/2018 4:19:35 PM

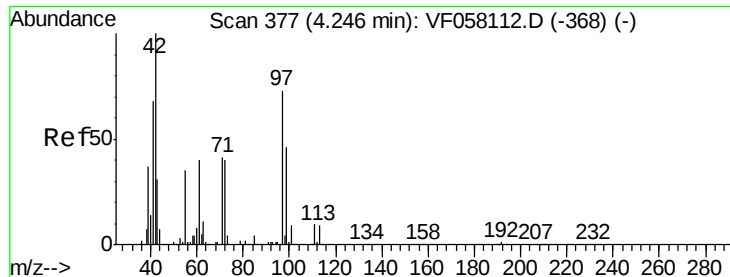


#28

Bromochloromethane
Concen: 24.94 ug/l
RT: 3.89 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	42844		
129	2.3		0.0	0.0#
130	89.1		75.8	113.8





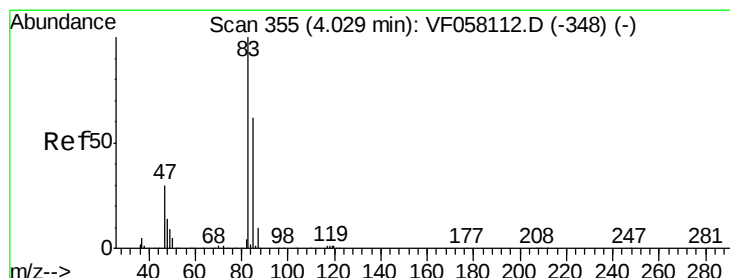
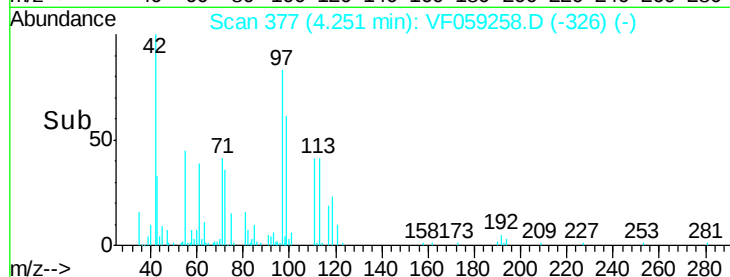
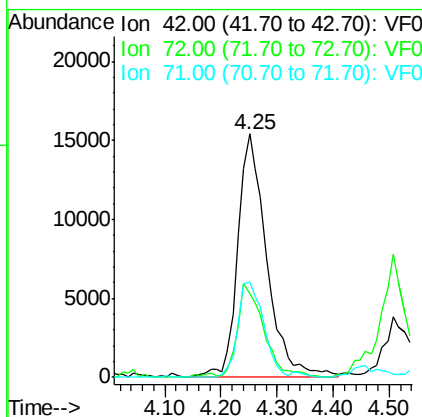
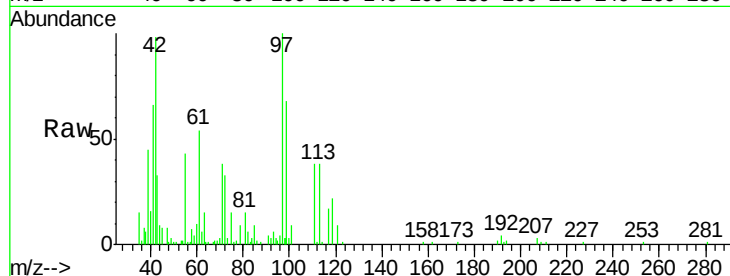
#29
Tetrahydrofuran
Concen: 112.95 ug/l
RT: 4.25 min Scan# 377
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.7	30.5	45.7
71	34.6	31.5	47.3

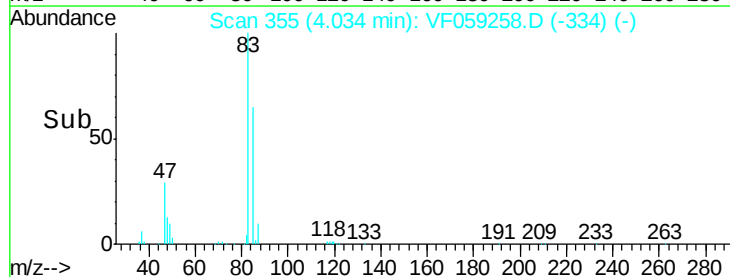
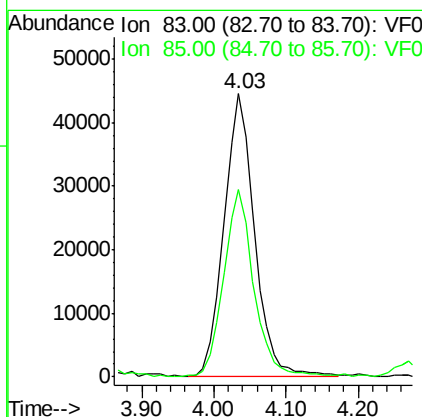
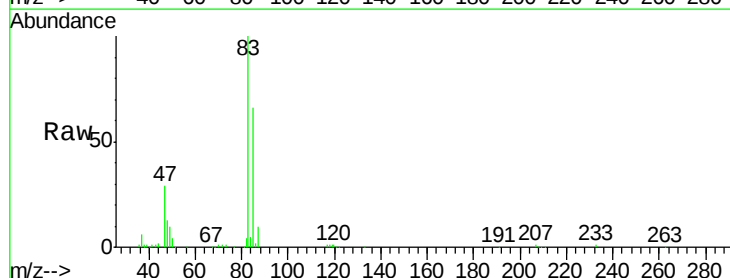
Manual Integrations
APPROVED

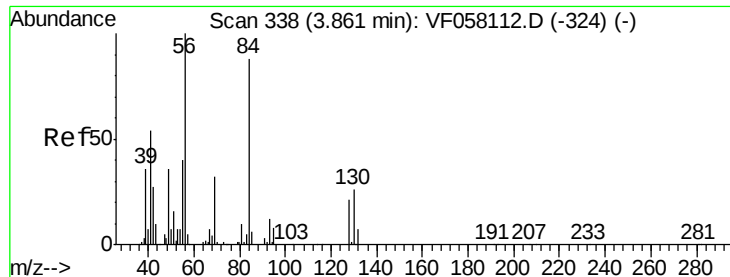
apatel
6/21/2018 4:19:35 PM



#30
Chloroform
Concen: 23.87 ug/l
RT: 4.03 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	49.5	74.3





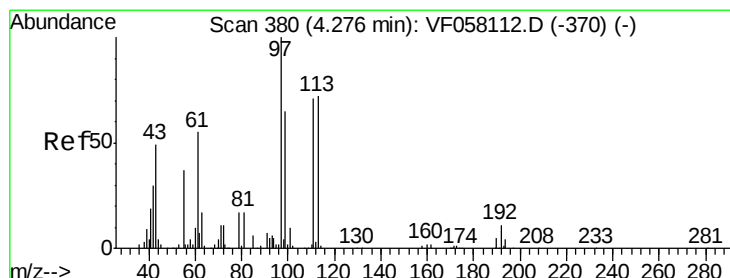
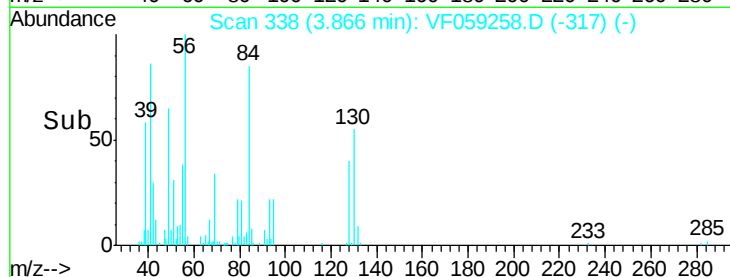
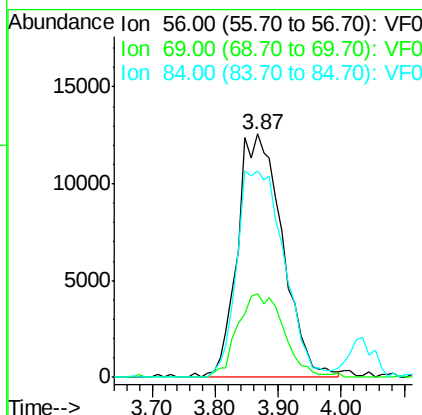
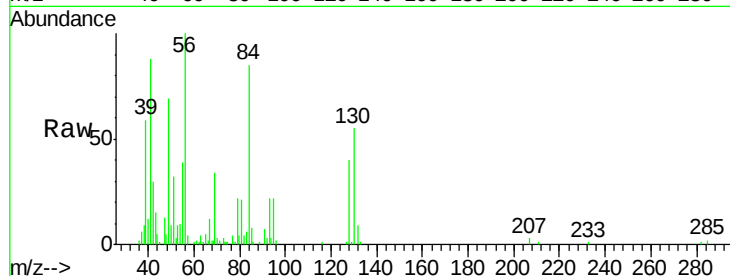
#31
Cyclohexane
Concen: 18.59 ug/l
RT: 3.87 min Scan# 338
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.4	25.9	38.9
84	85.0	70.3	105.5

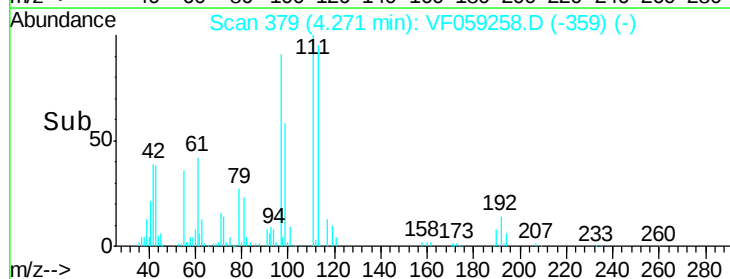
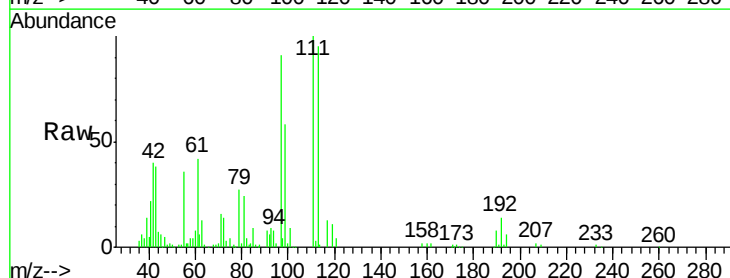
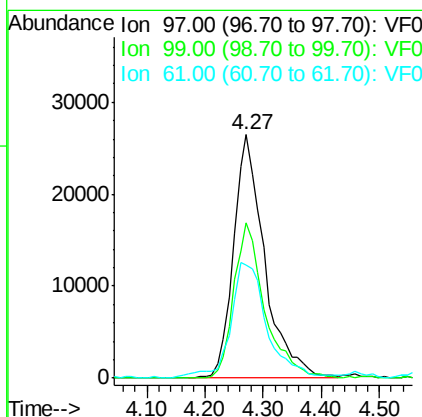
Manual Integrations
APPROVED

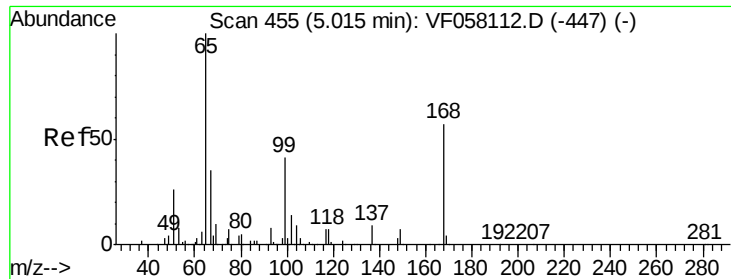
apatel
6/21/2018 4:19:35 PM



#32
1,1,1-Trichloroethane
Concen: 24.18 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.0	78.0
61	46.3	44.3	66.5





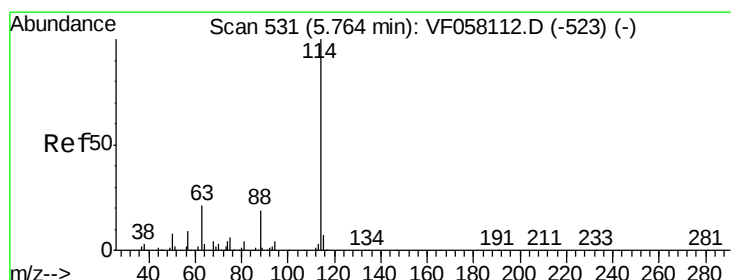
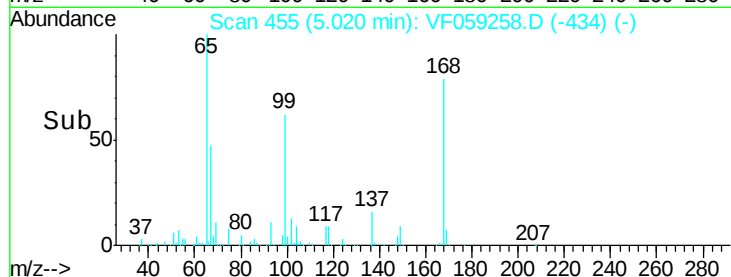
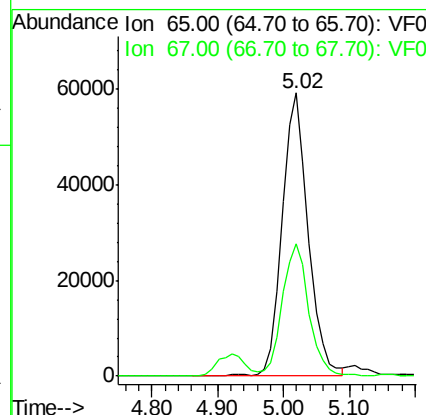
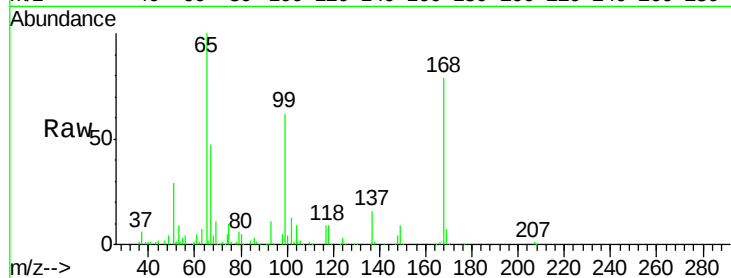
#33
 1,2-Dichloroethane-d4
 Concen: 53.87 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	161769		
67	46.7	0.0	97.0	

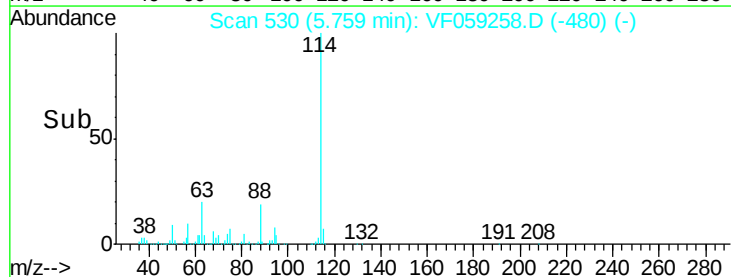
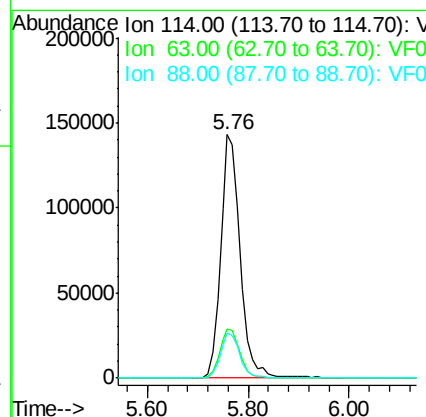
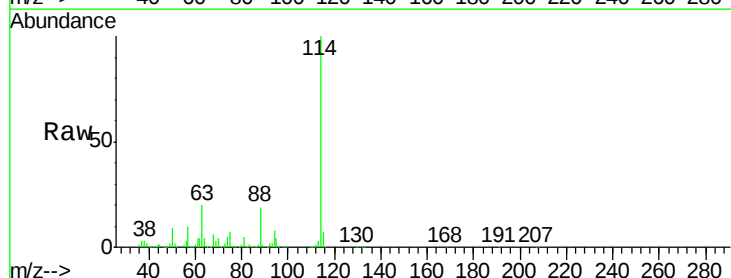
Manual Integrations
 APPROVED

apatel
 6/21/2018 4:19:35 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	388741		
63	20.2	0.0	41.6	
88	18.7	0.0	38.8	





#35

Dibromofluoromethane

Concen: 53.44 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

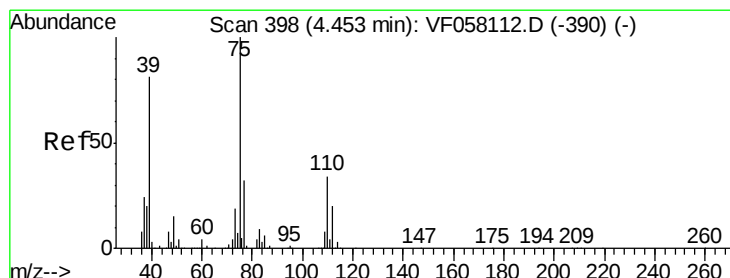
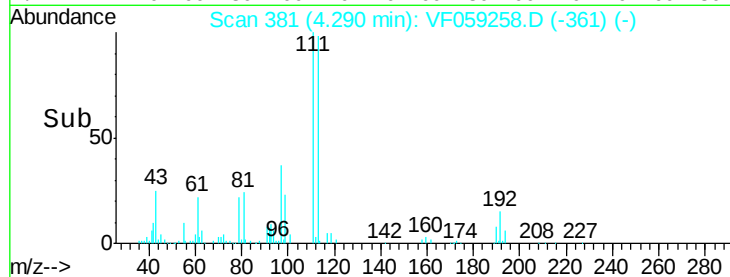
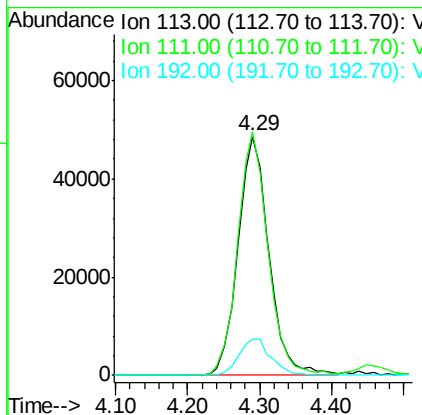
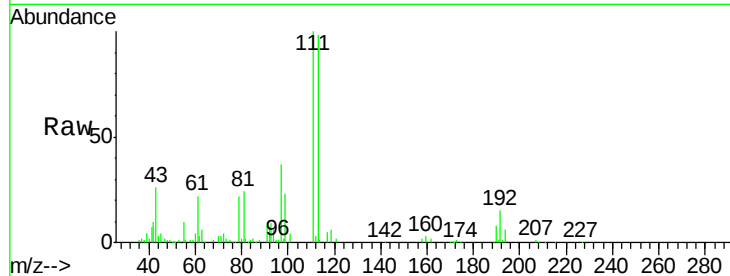
ClientSampleId :

VF0620SBS02

Tot Ion:	113	Resp:	145763
Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	15.2	12.7	19.1

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#36

1,1-Dichloropropene

Concen: 22.29 ug/l

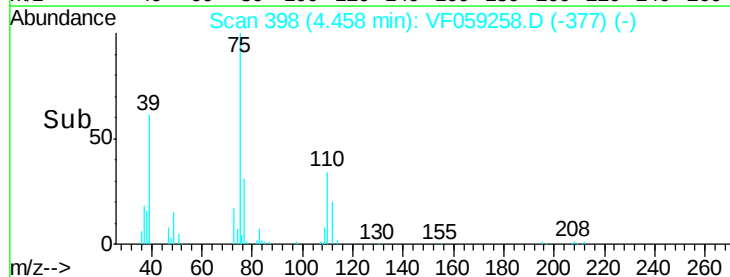
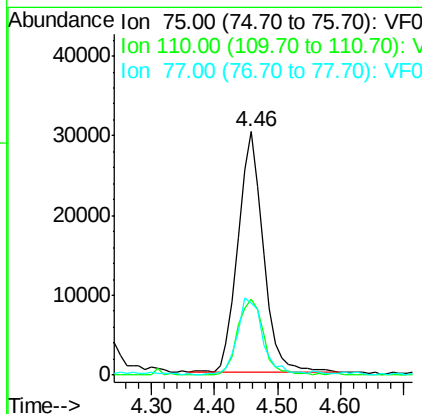
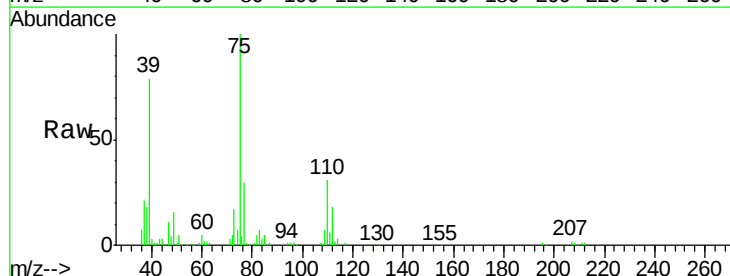
RT: 4.46 min Scan# 398

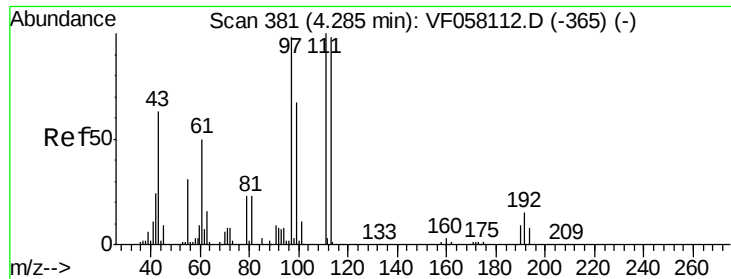
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	75	Resp:	83985
Ion	Ratio	Lower	Upper
75	100		
110	31.3	17.0	50.9
77	29.7	25.3	37.9





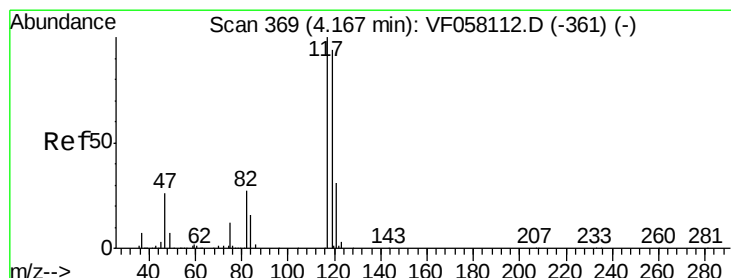
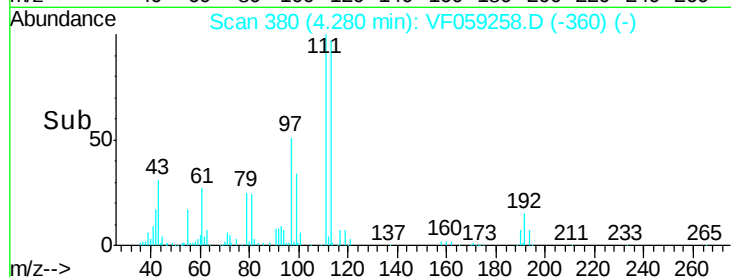
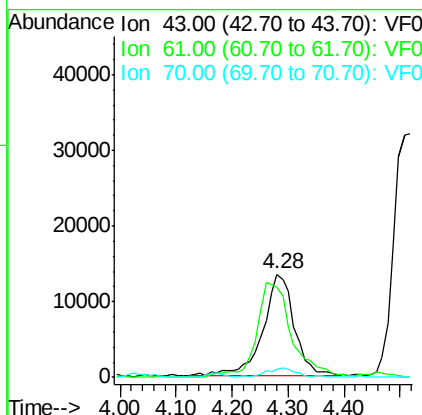
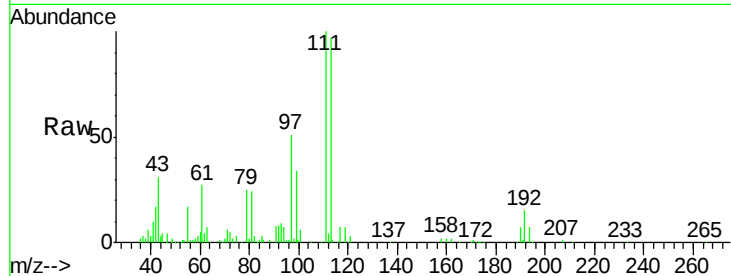
#37
Ethyl Acetate
Concen: 22.68 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	43	61	70	Ratio	Lower	Upper
52793	100	87.5	7.6			
		63.0	7.5			
						11.3

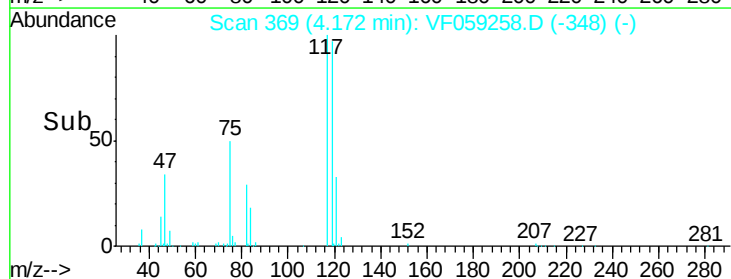
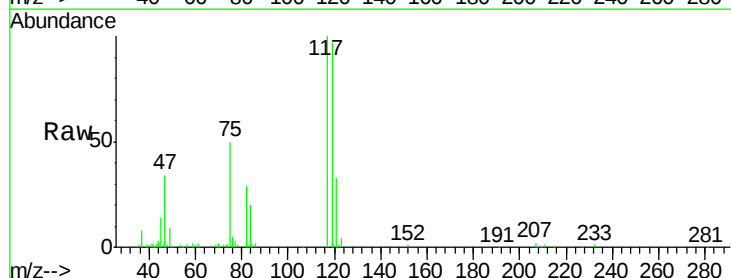
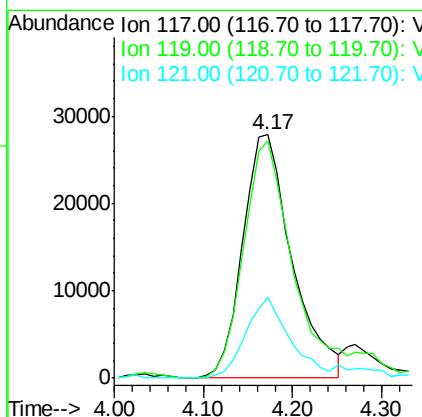
Manual Integrations
APPROVED

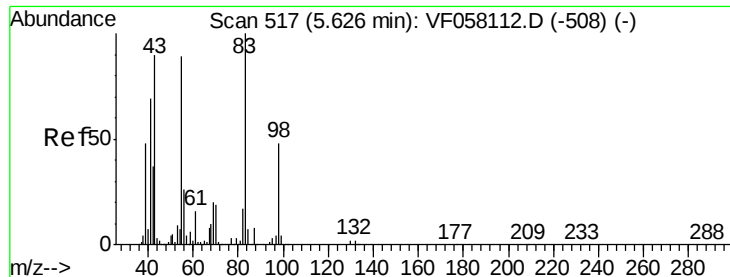
apatel
6/21/2018 4:19:35 PM



#38
Carbon Tetrachloride
Concen: 26.21 ug/l
RT: 4.17 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	117	119	121	Ratio	Lower	Upper
107053	100	97.3	33.4			
		75.7	24.8			
						37.2





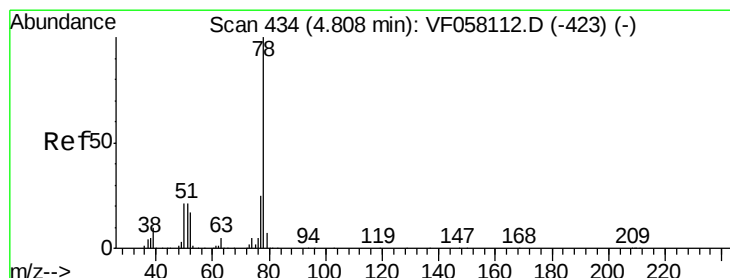
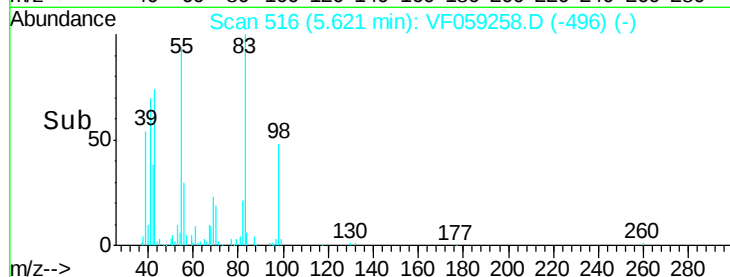
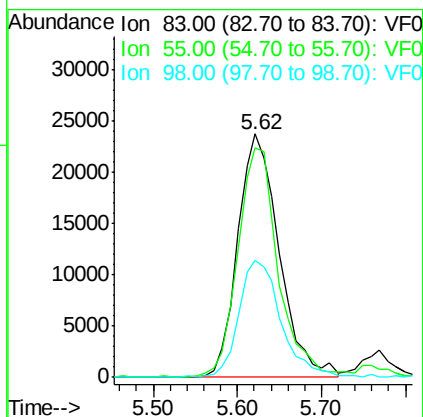
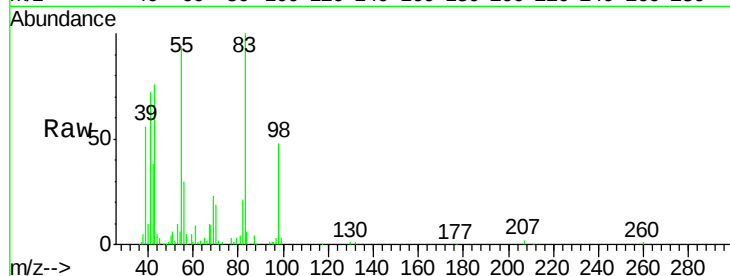
#39
Methvlcvclohexane
Concen: 21.27 ug/l
RT: 5.62 min Scan# 516
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.1	71.0	106.4
98	48.1	38.1	57.1

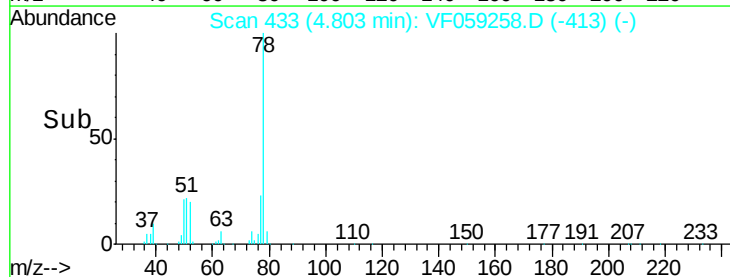
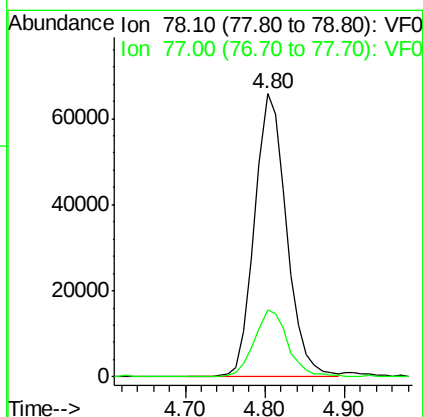
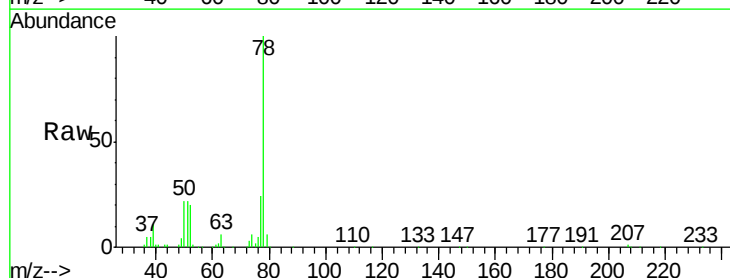
Manual Integrations
APPROVED

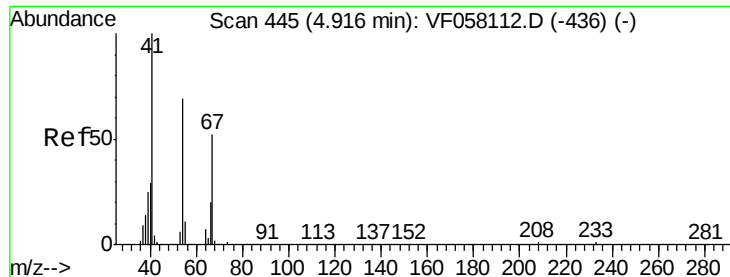
apatel
6/21/2018 4:19:35 PM



#40
Benzene
Concen: 20.83 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	20.2	30.2





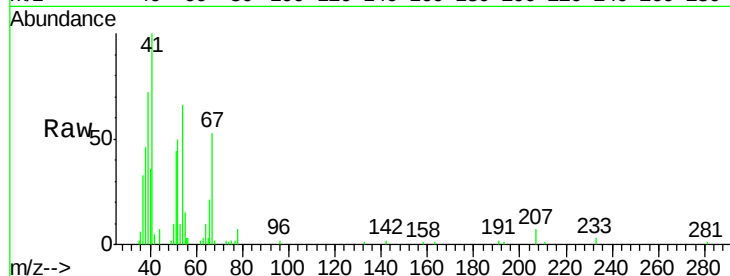
#41
Methacrylonitrile
Concen: 22.29 ug/l
RT: 4.92 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

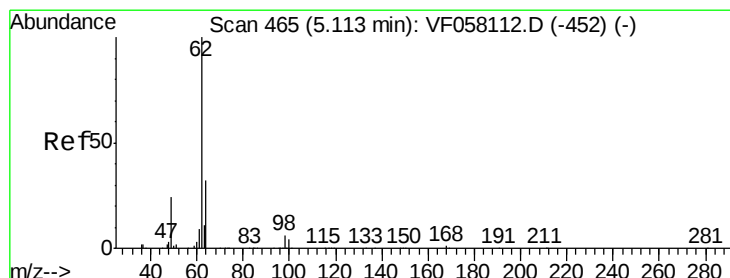
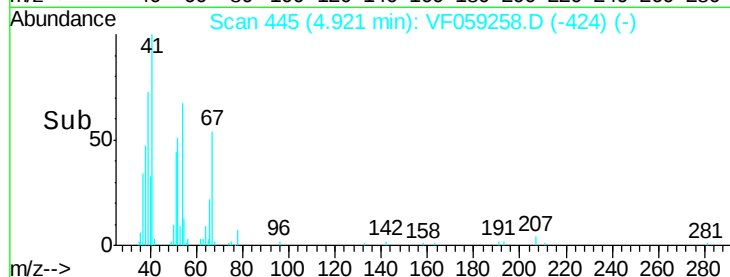
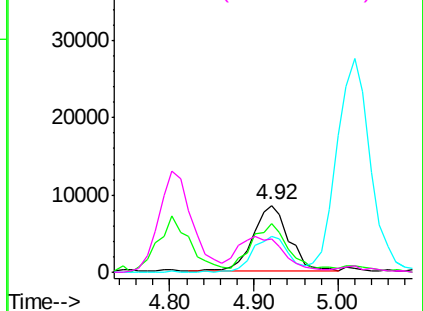
Tot Ion	Ratio	Lower	Upper
41	100		
39	72.5	53.0	79.4
67	52.7	41.0	61.6
52	49.6	36.8	55.2

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM

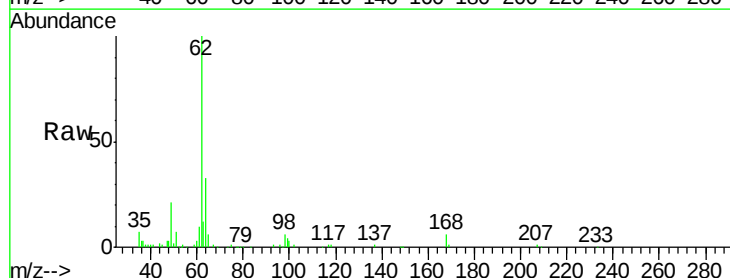


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

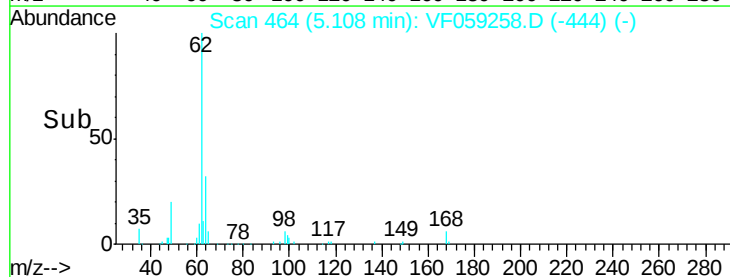
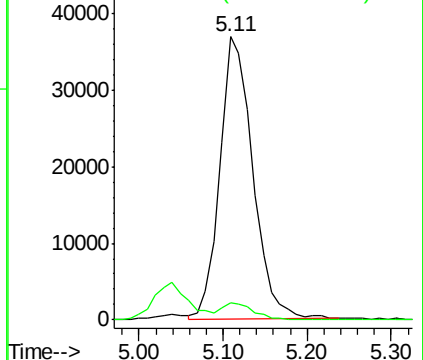


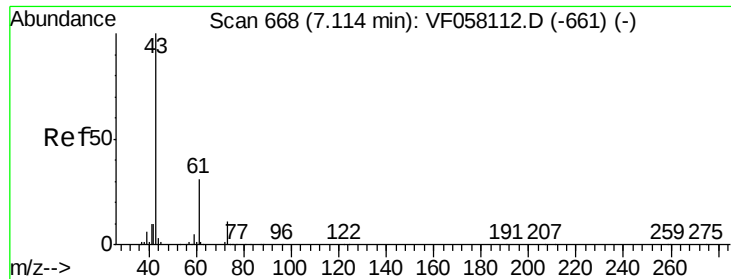
#42
1,2-Dichloroethane
Concen: 25.56 ug/l
RT: 5.11 min Scan# 464
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.2	0.0	11.8



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#43

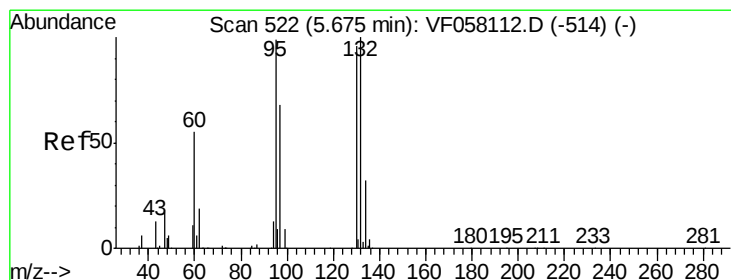
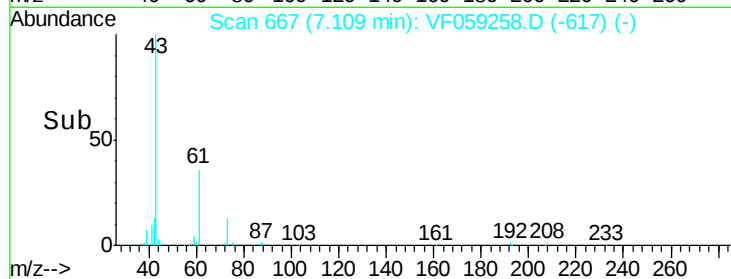
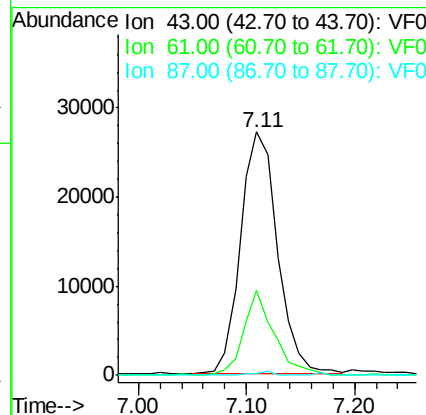
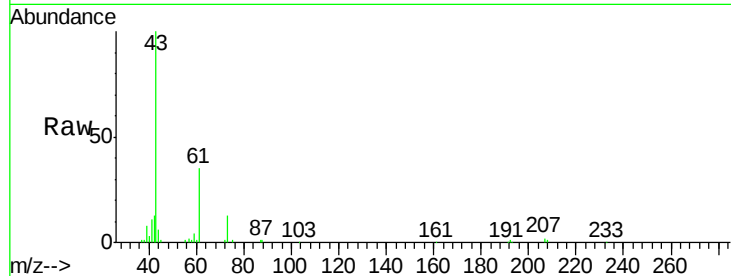
Isopropyl Acetate
 Concen: 20.73 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.7	25.1	37.7
87	0.7	0.2	0.4

Manual Integrations
 APPROVED

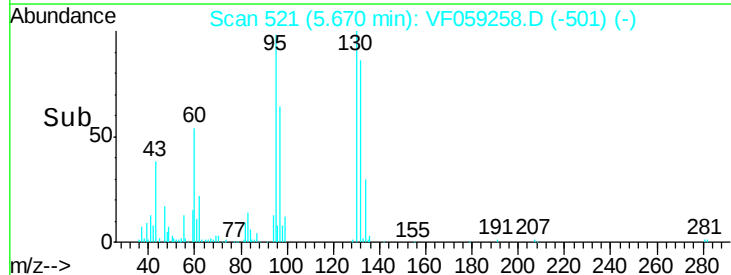
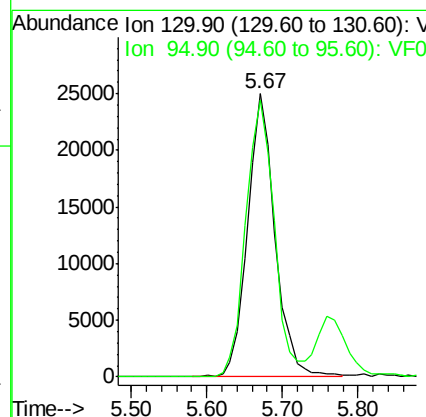
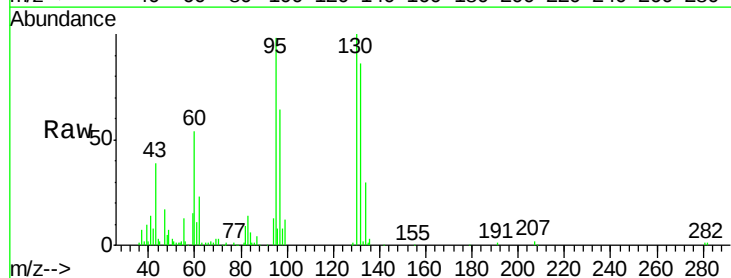
apatel
 6/21/2018 4:19:35 PM

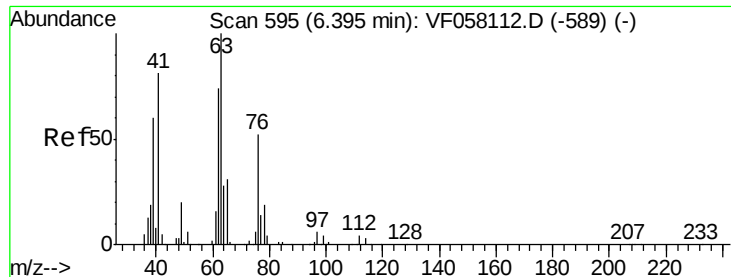


#44

Trichloroethene
 Concen: 22.97 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	206.8





#45

1,2-Dichloropropane

Concen: 22.23 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 63 Resp: 56054

Ion Ratio Lower Upper

63 100

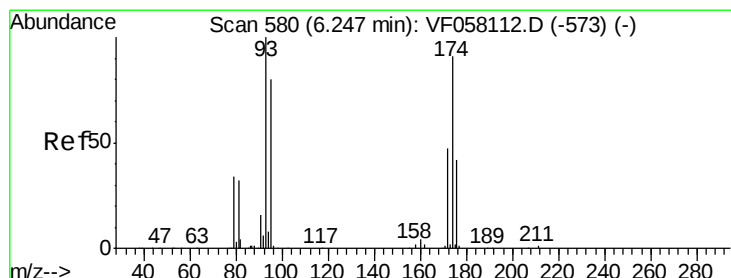
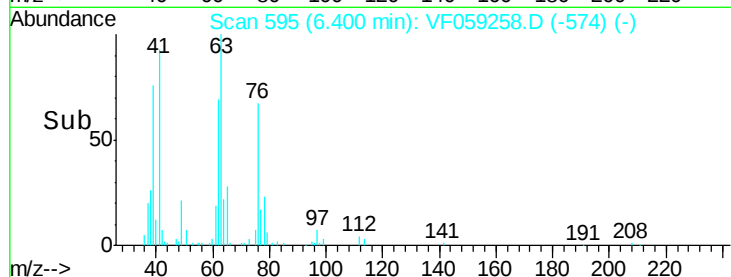
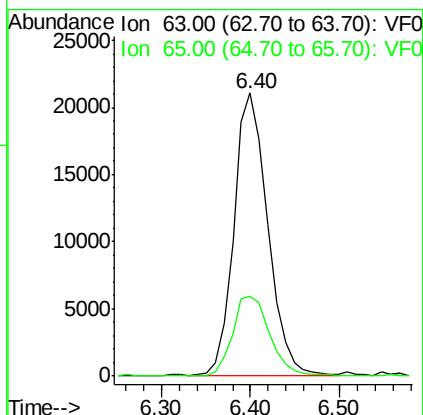
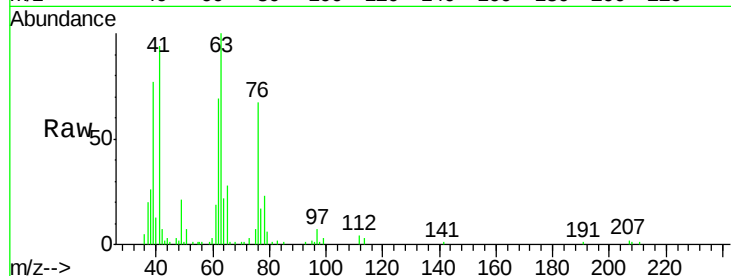
65 28.3 24.6 37.0

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#46

Dibromomethane

Concen: 23.39 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

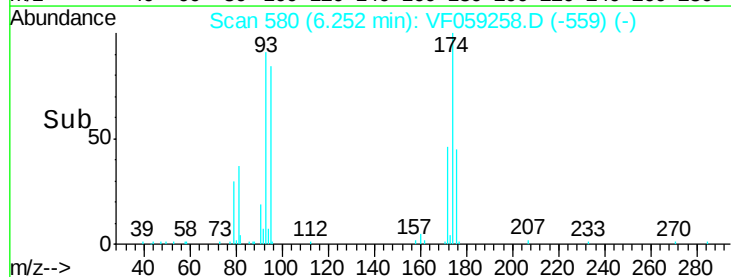
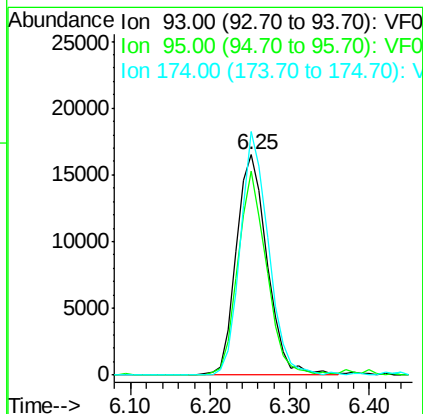
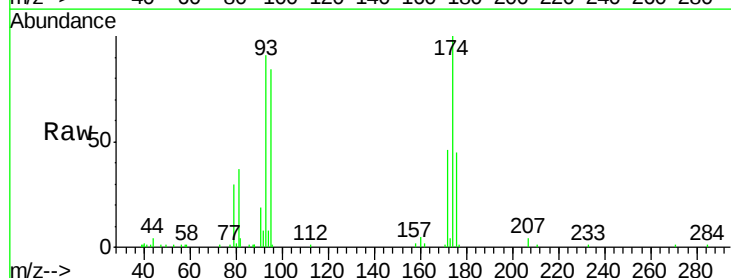
Tgt Ion: 93 Resp: 44386

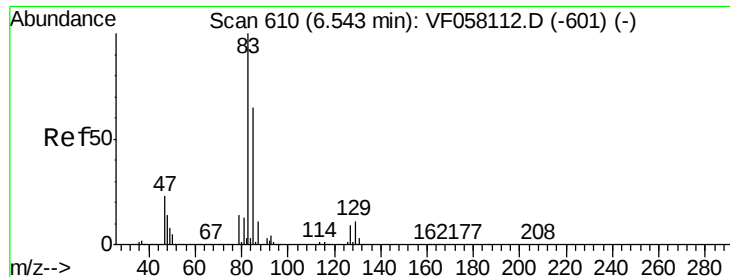
Ion Ratio Lower Upper

93 100

95 93.5 64.2 96.4

174 110.5 72.7 109.1#





#47

Bromodichloromethane

Concen: 23.90 ug/l

RT: 6.55 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

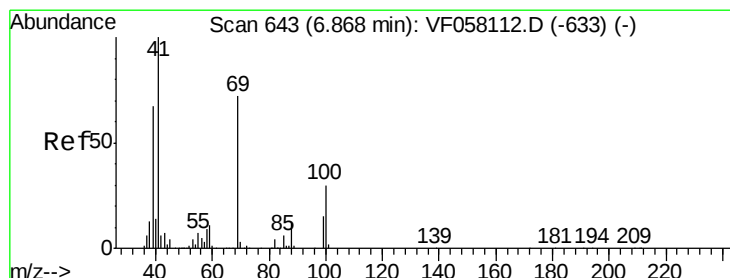
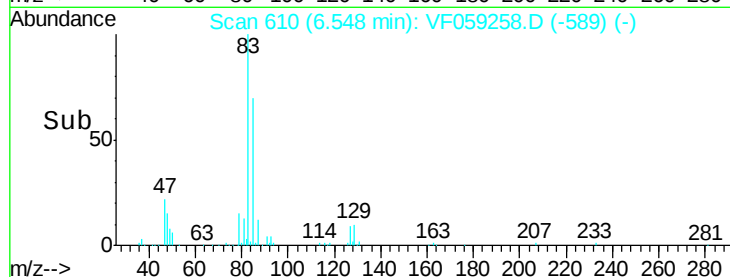
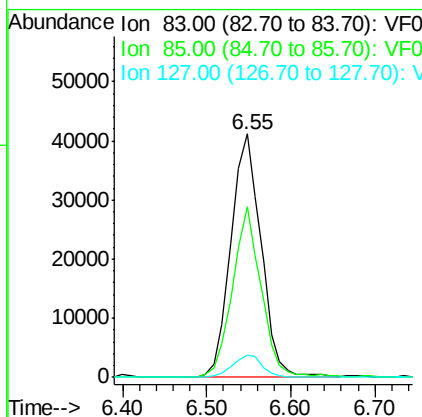
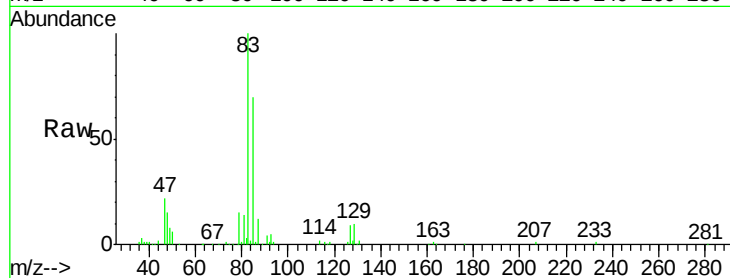
ClientSampleId :

VF0620SBS02

Tot Ion:	83	Resp:	103163
Ion Ratio	Lower	Upper	
83	100		
85	70.0	51.6	77.4
127	9.2	7.2	10.8

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#48

Methyl methacrylate

Concen: 21.02 ug/l

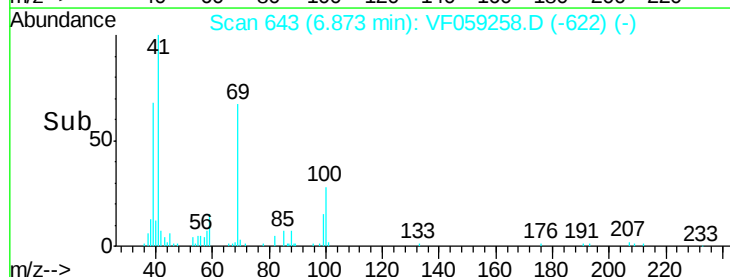
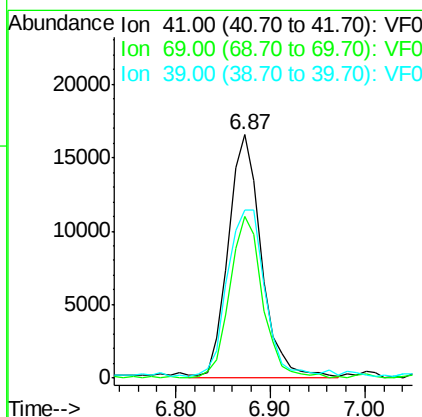
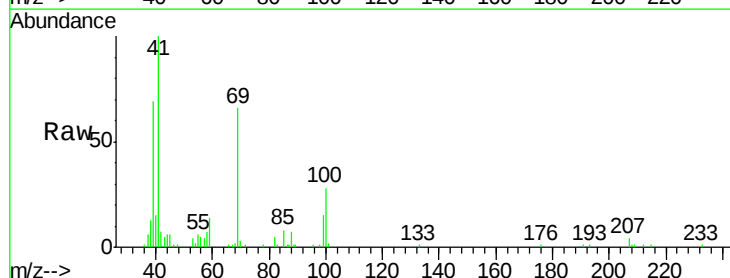
RT: 6.87 min Scan# 643

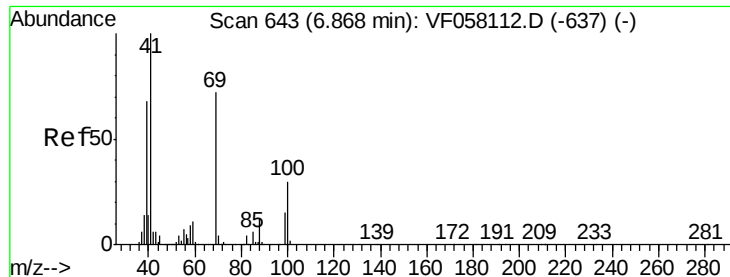
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	41	Resp:	40413
Ion Ratio	Lower	Upper	
41	100		
69	66.5	57.2	85.8
39	69.0	54.3	81.5





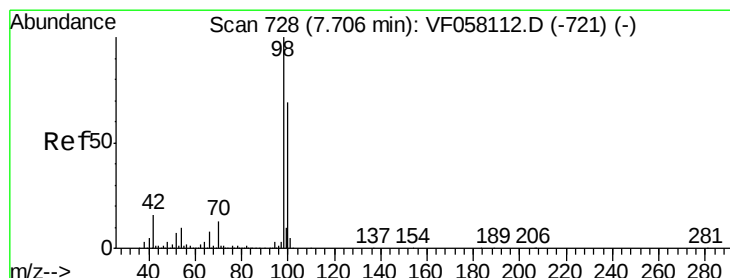
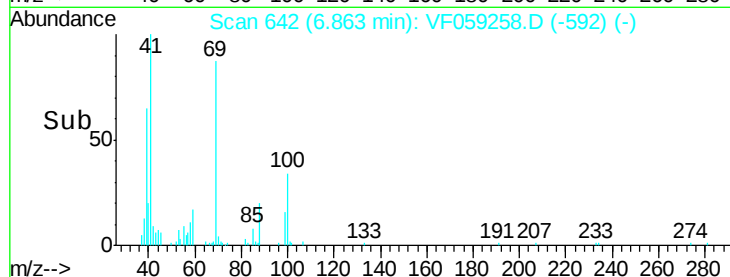
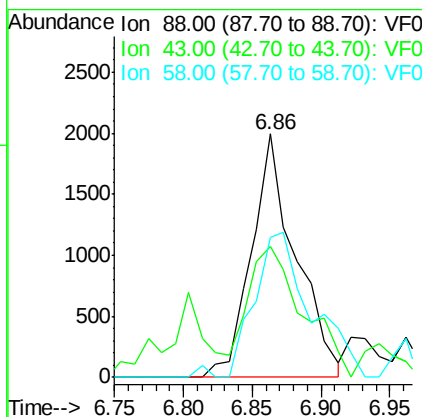
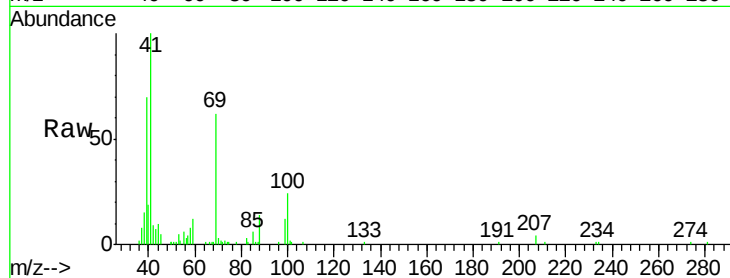
#49
1,4-Dioxane
Concen: 304.28 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	53.7	47.8	71.8
58	57.5	59.4	89.0

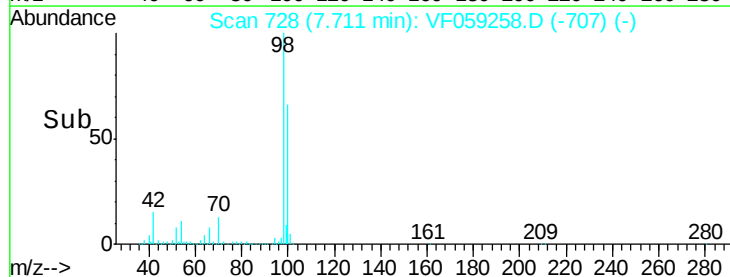
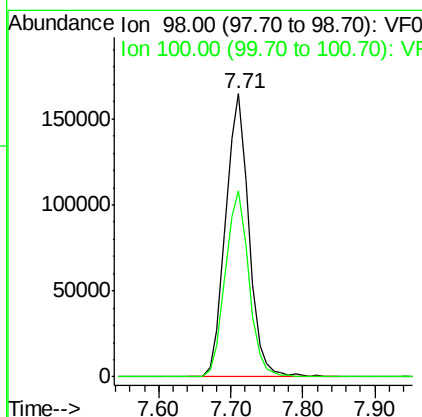
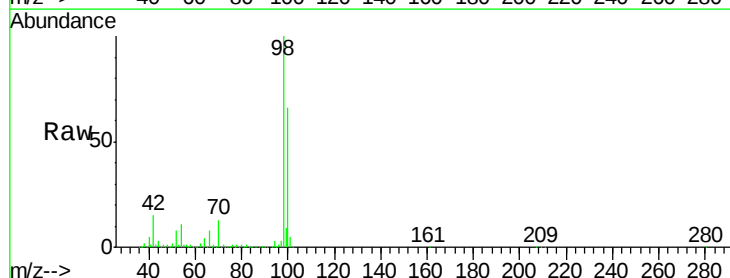
Manual Integrations
APPROVED

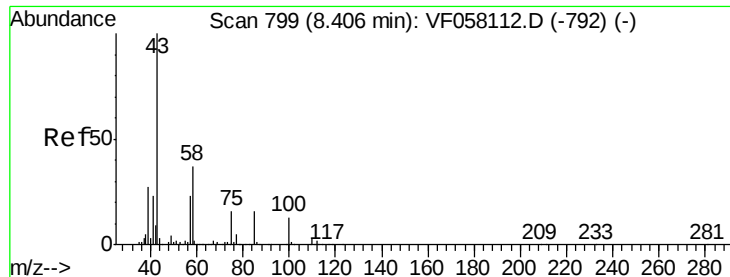
apatel
6/21/2018 4:19:35 PM



#50
Toluene-d8
Concen: 46.20 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 117.33 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 43 Resp: 250748

Ion Ratio Lower Upper

43 100

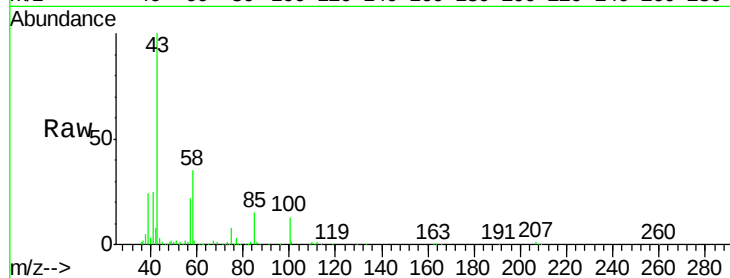
58 35.0 29.4 44.0

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

100000

80000

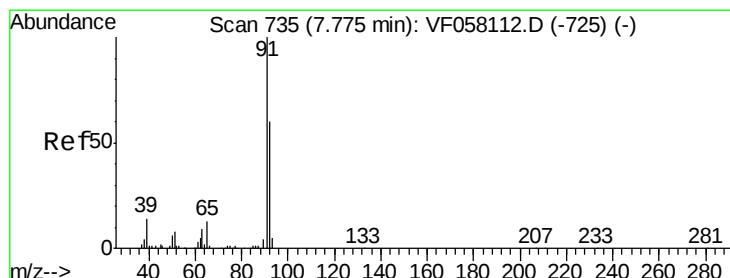
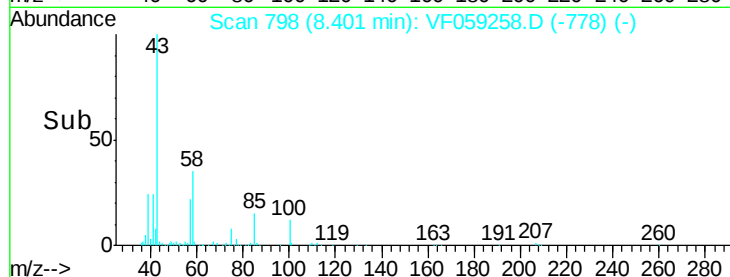
60000

40000

20000

0

Time--> 8.20 8.30 8.40 8.50 8.60



#52

Toluene

Concen: 21.51 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059258.D

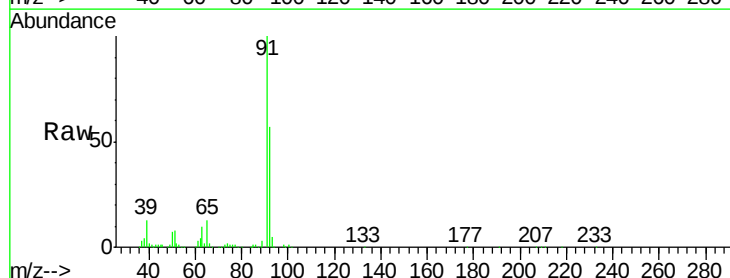
Acq: 21 Jun 2018 12:13

Tgt Ion: 92 Resp: 135513

Ion Ratio Lower Upper

92 100

91 175.1 132.9 199.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.78

100000

80000

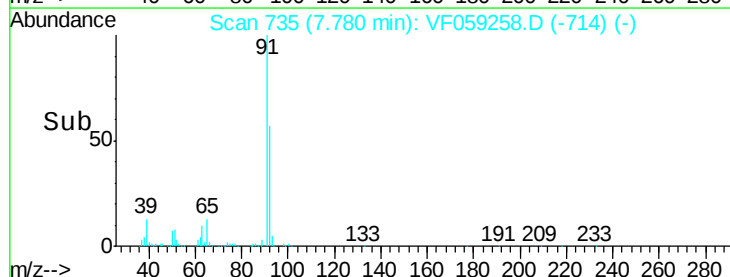
60000

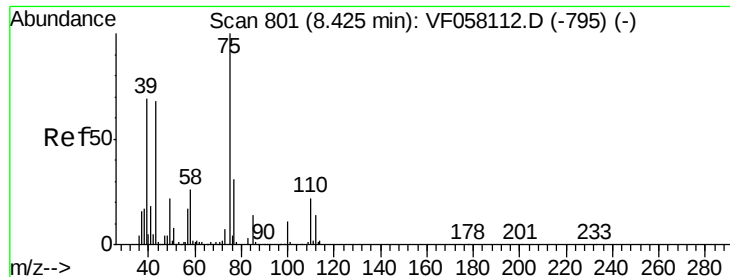
40000

20000

0

Time--> 7.70 7.80 7.90





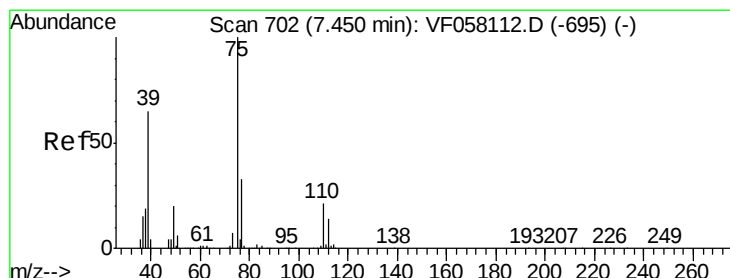
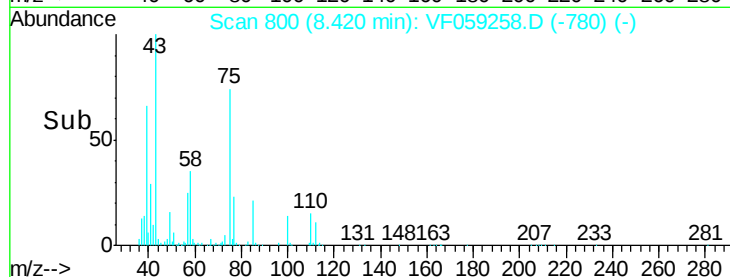
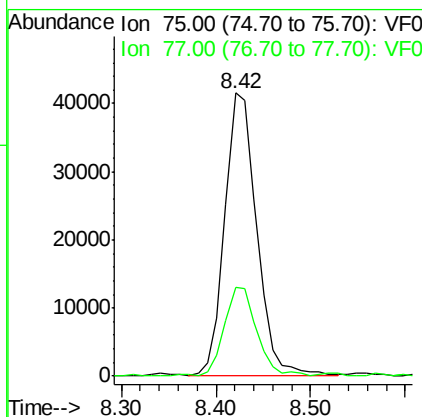
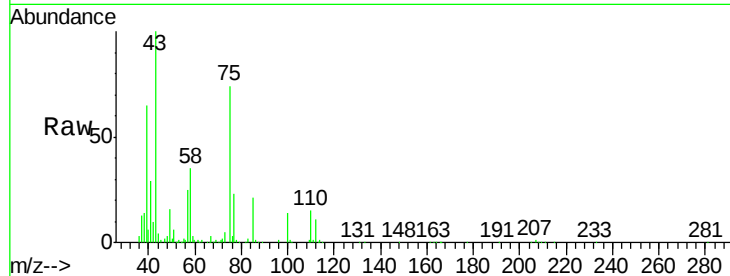
#53
t-1,3-Dichloropropene
Concen: 23.20 ug/l
RT: 8.42 min Scan# 800
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.1	37.7

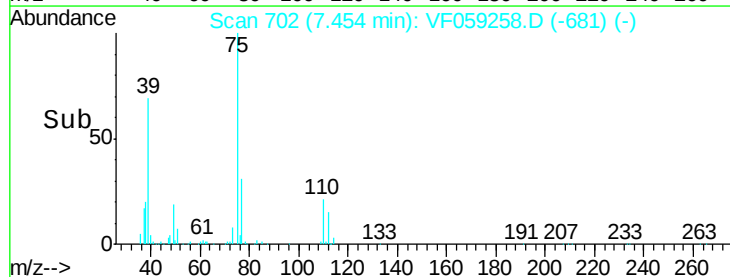
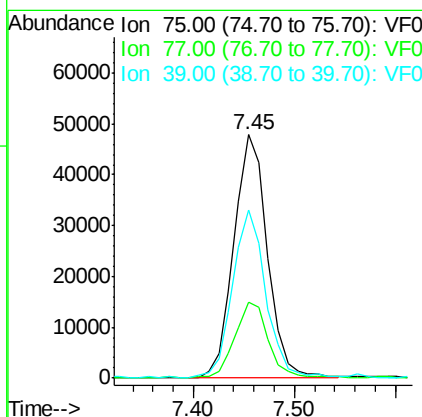
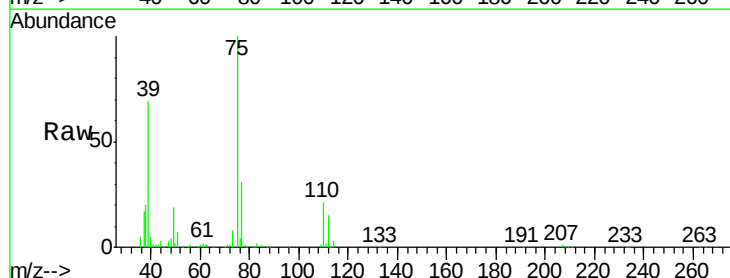
Manual Integrations
APPROVED

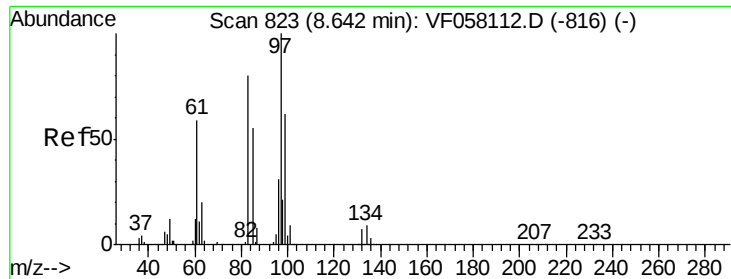
apatel
6/21/2018 4:19:35 PM



#54
cis-1,3-Dichloropropene
Concen: 23.05 ug/l
RT: 7.45 min Scan# 702
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.3	39.5
39	68.9	52.1	78.1





#55

1,1,2-Trichloroethane

Concen: 22.29 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

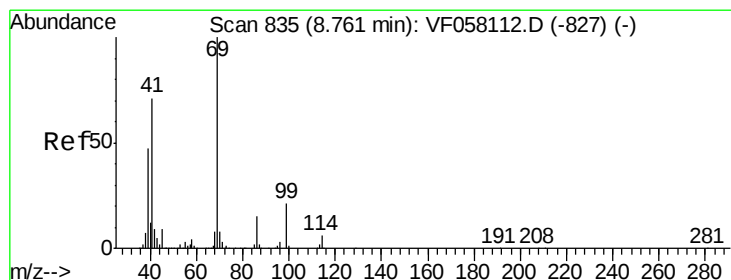
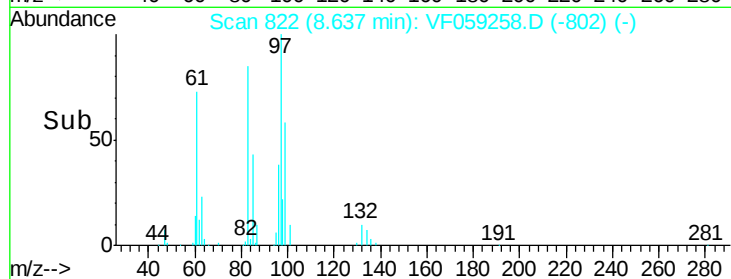
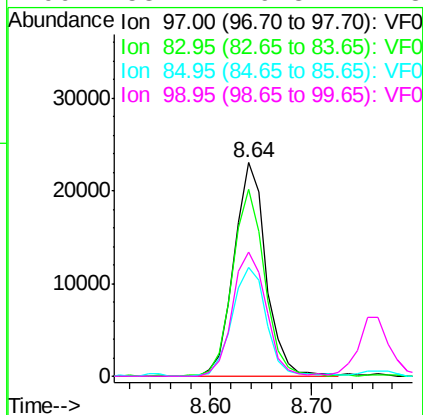
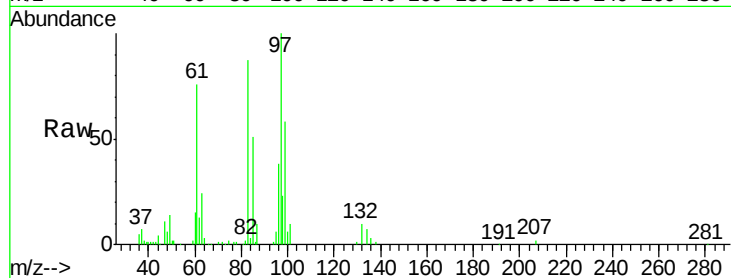
ClientSampleId :

VF0620SBS02

Tot Ion:	97	Resp:	50874
Ion	Ratio	Lower	Upper
97	100		
83	87.3	64.3	96.5
85	51.2	43.8	65.8
99	58.1	49.8	74.8

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#56

Ethyl methacrylate

Concen: 20.78 ug/l

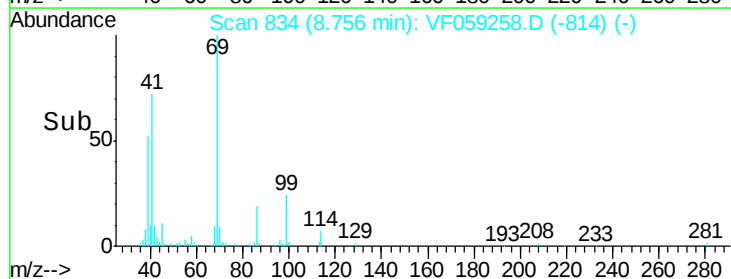
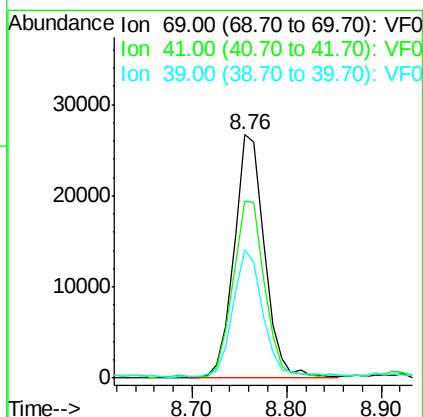
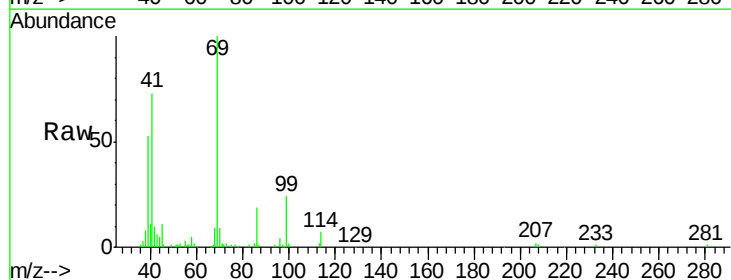
RT: 8.76 min Scan# 834

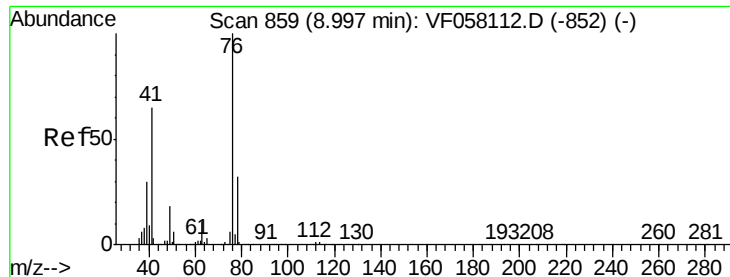
Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	69	Resp:	59803
Ion	Ratio	Lower	Upper
69	100		
41	72.7	56.9	85.3
39	52.8	38.0	57.0





#57

1,3-Dichloropropane

Concen: 23.10 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 76 Resp: 90193

Ion Ratio Lower Upper

76 100

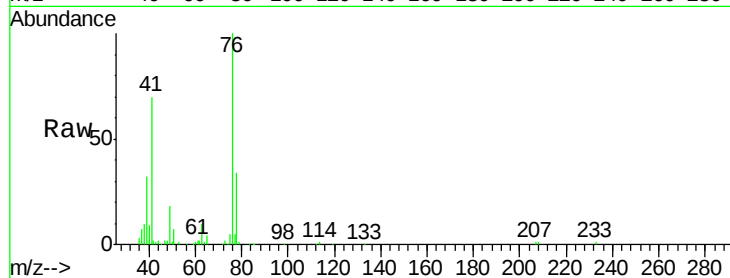
78 34.2 25.8 38.6

Manual Integrations

APPROVED

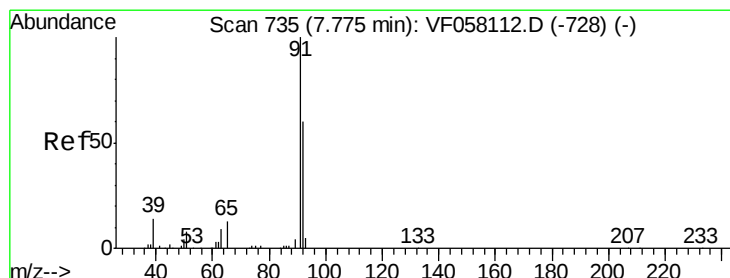
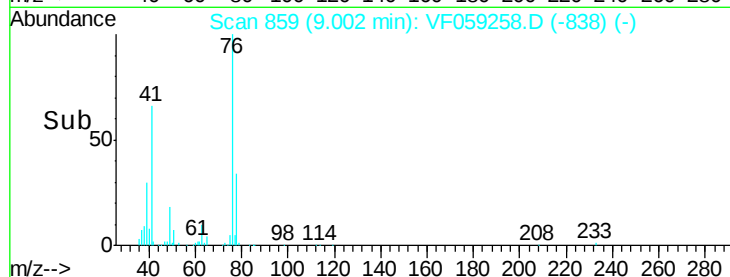
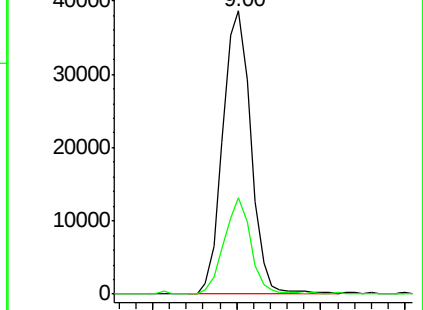
apatel

6/21/2018 4:19:35 PM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 115.66 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059258.D

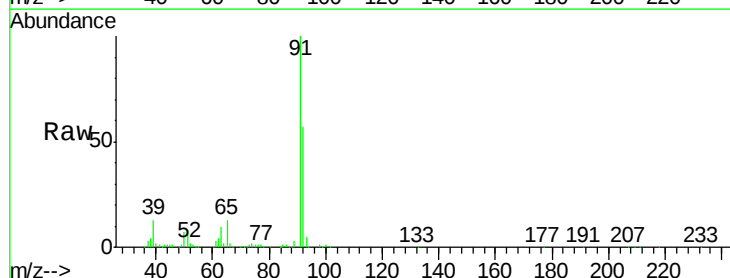
Acq: 21 Jun 2018 12:13

Tgt Ion: 63 Resp: 23797

Ion Ratio Lower Upper

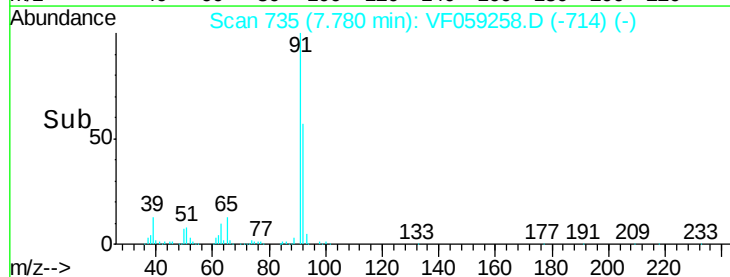
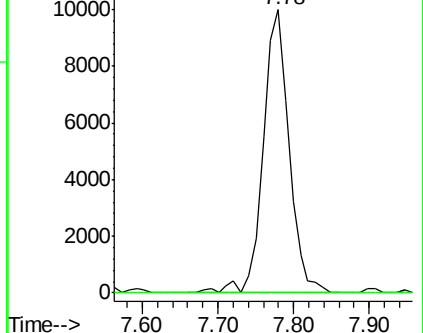
63 100

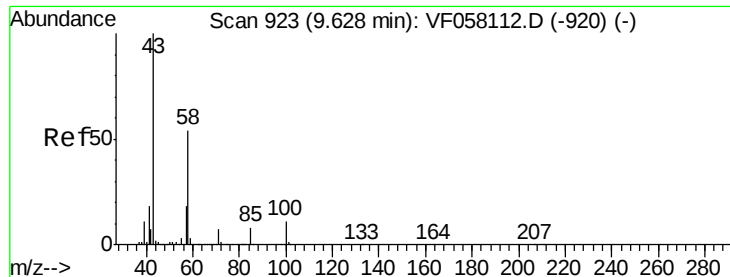
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





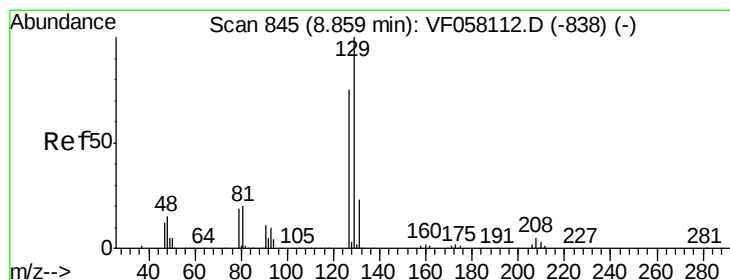
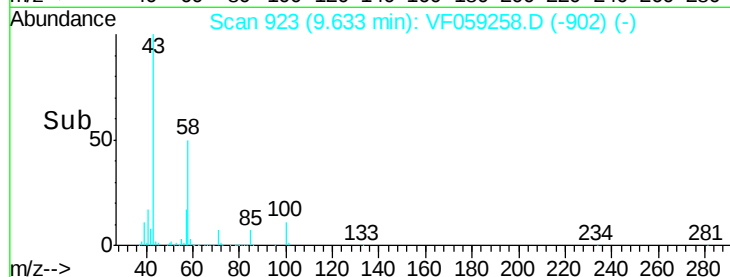
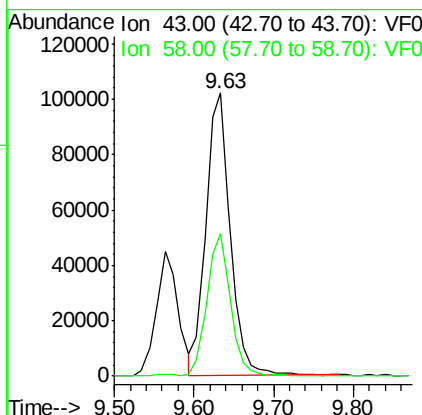
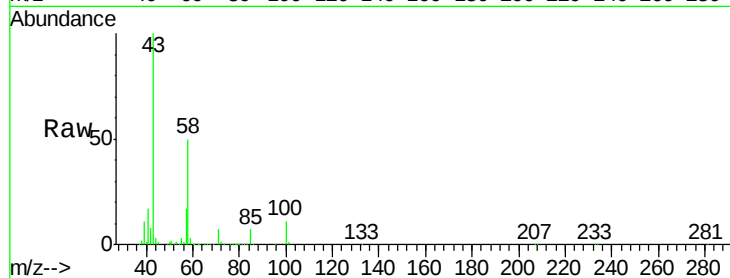
#59
2-Hexanone
Concen: 128.46 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.2	26.3	78.8

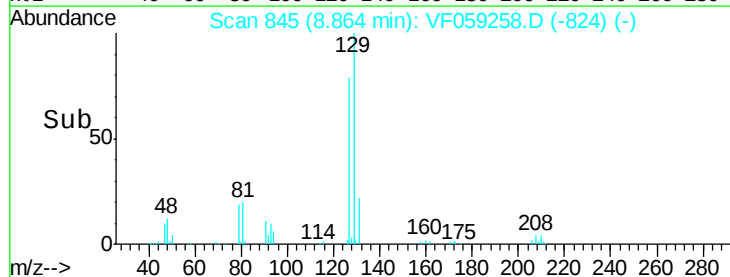
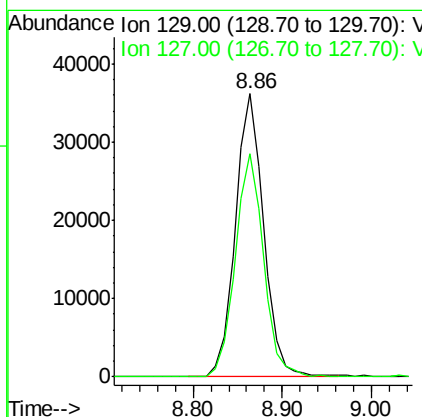
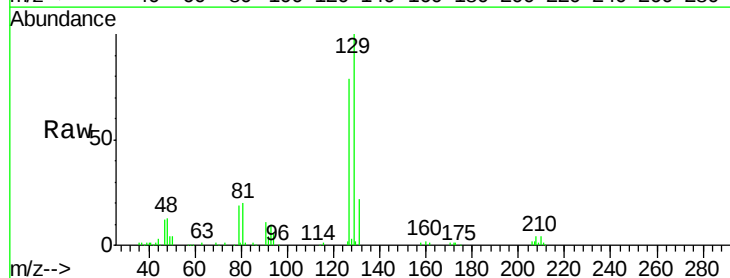
Manual Integrations
APPROVED

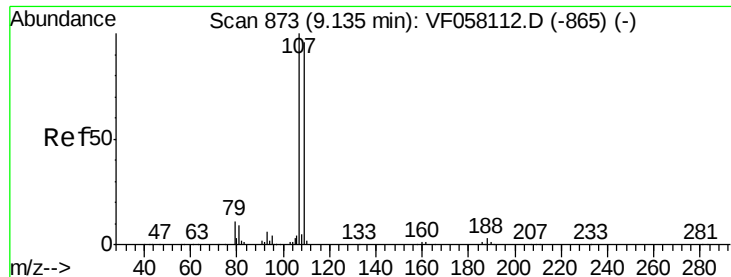
apatel
6/21/2018 4:19:35 PM



#60
Dibromochloromethane
Concen: 24.39 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	37.6	112.9





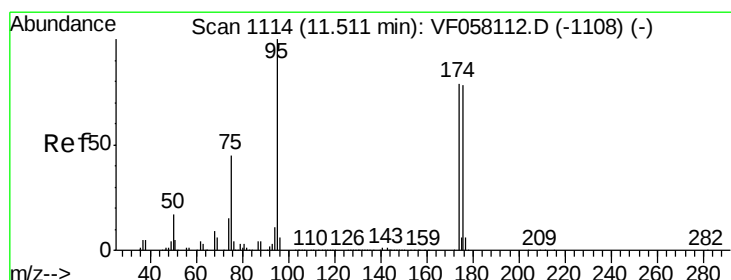
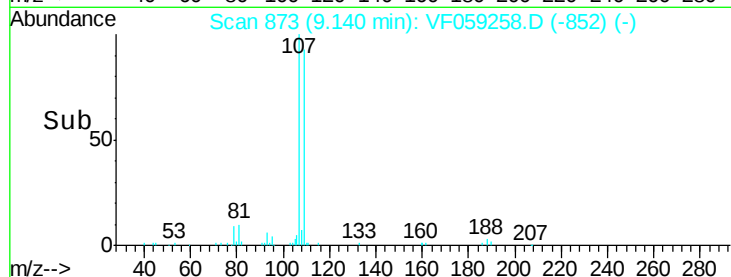
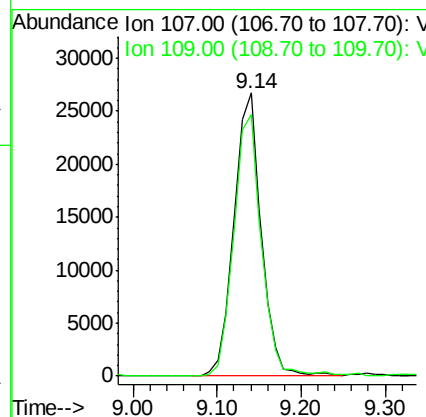
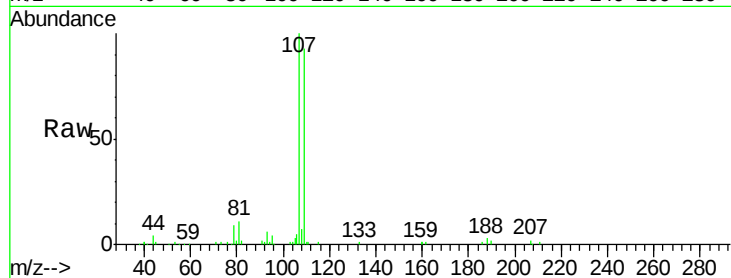
#61
 1,2-Dibromoethane
 Concen: 22.75 ug/l
 RT: 9.14 min Scan# 873
 Delta R.T. 0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	100		60337		
109	92.6	76.6	115.0		

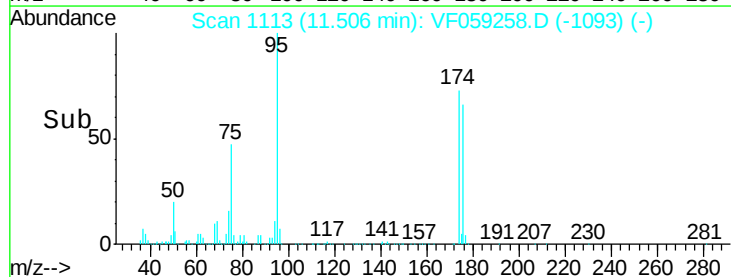
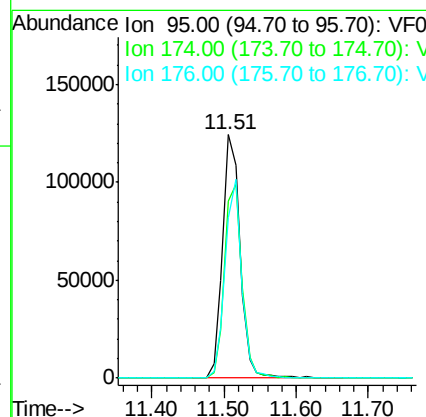
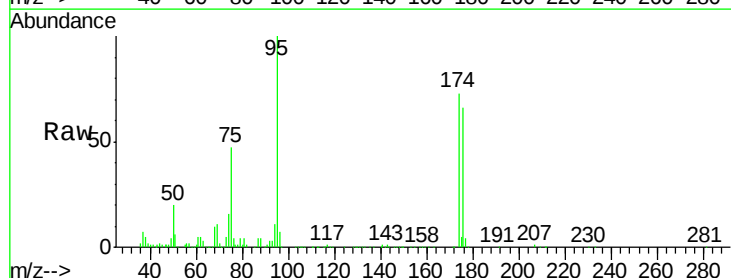
Manual Integrations
 APPROVED

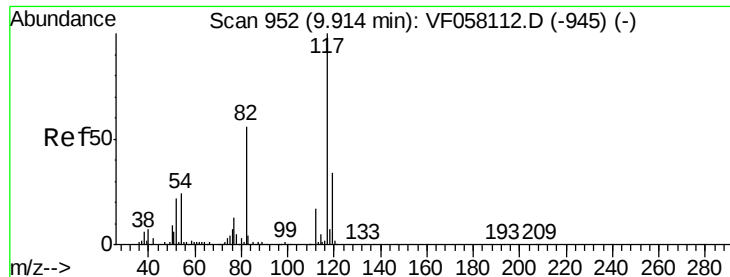
apatel
 6/21/2018 4:19:35 PM



#62
 4-Bromofluorobenzene
 Concen: 50.71 ug/l
 RT: 11.51 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
95	100		208440		
174	72.7	0.0	157.8		
176	65.9	0.0	155.8		





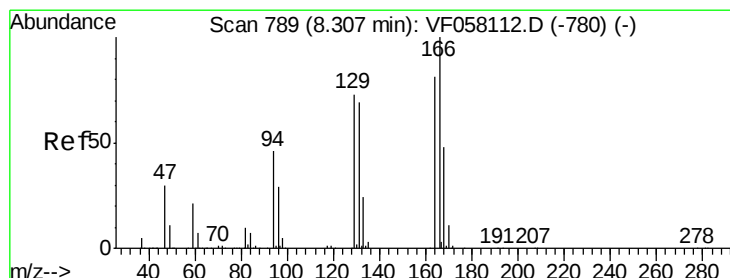
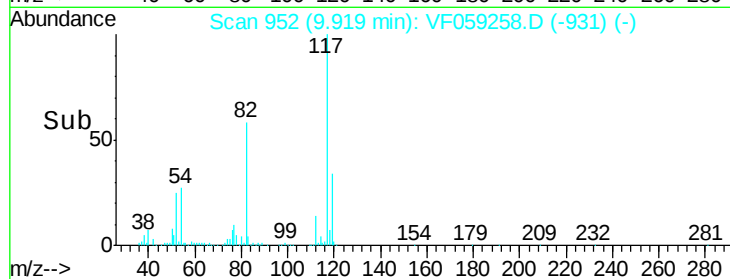
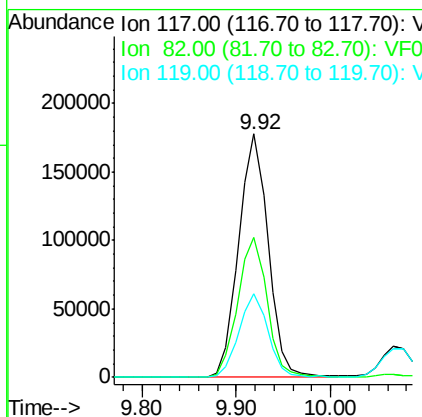
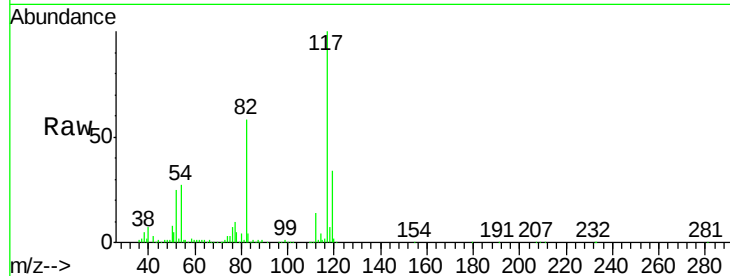
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	57.7	45.2	67.8	
119	34.4	27.5	41.3	

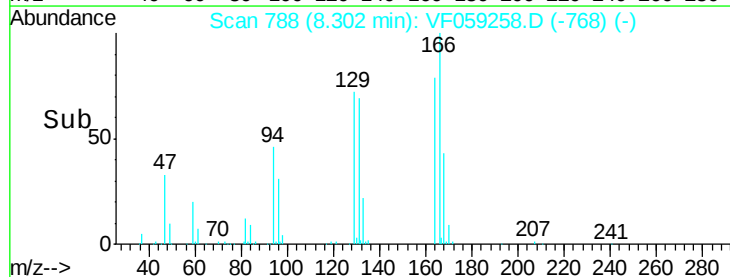
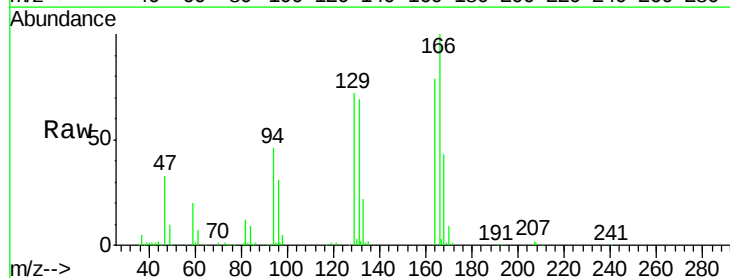
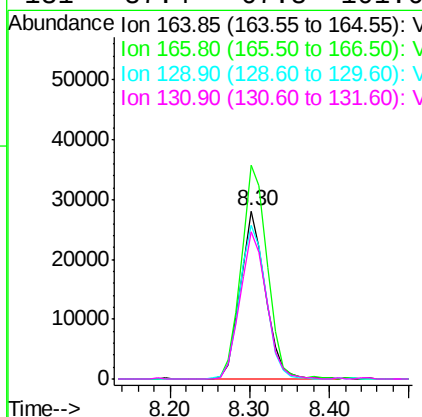
Manual Integrations
APPROVED

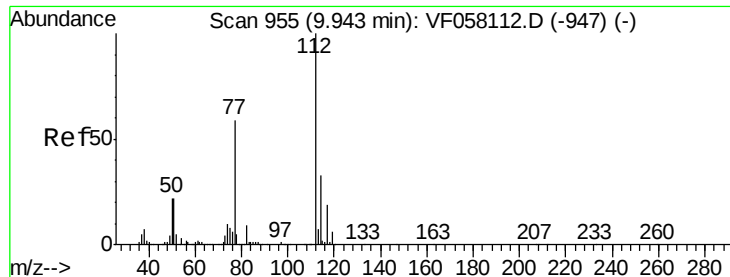
apatel
6/21/2018 4:19:35 PM



#64
Tetrachloroethene
Concen: 21.60 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	127.1	98.2	147.4	
129	91.6	71.6	107.4	
131	87.4	67.8	101.6	





#65

Chlorobenzene

Concen: 23.60 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion:112 Resp: 180338

Ion Ratio Lower Upper

112 100

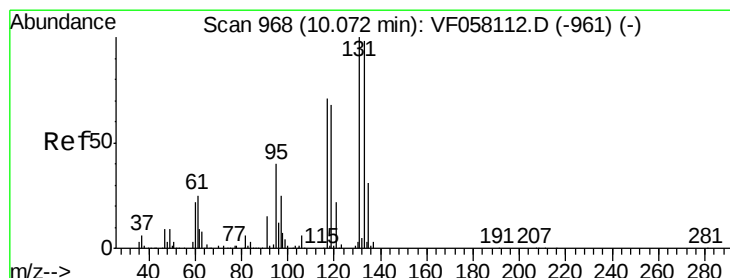
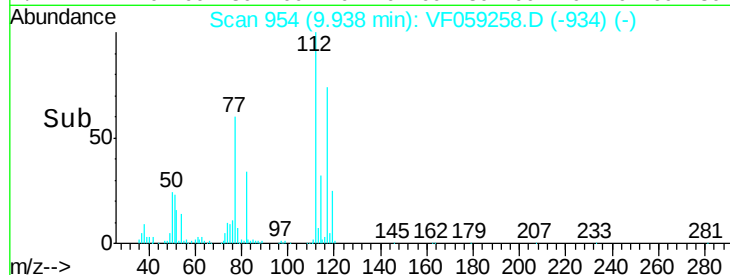
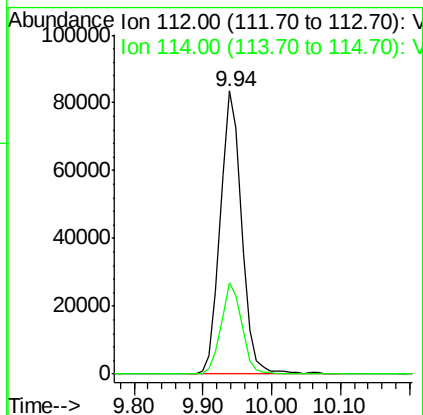
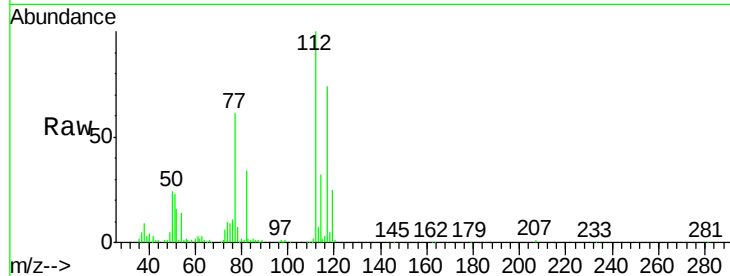
114 32.2 26.2 39.4

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 24.47 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

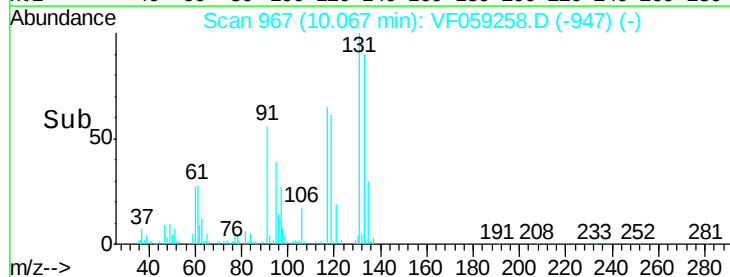
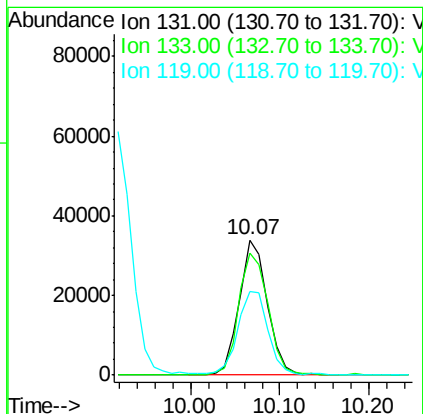
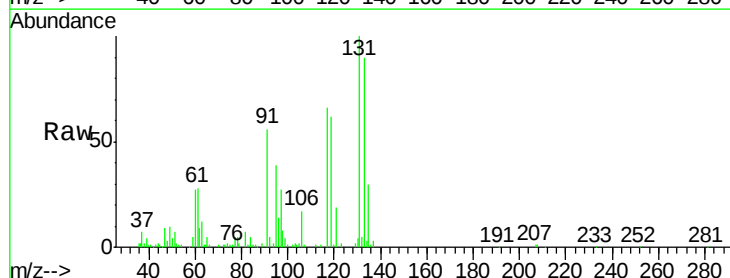
Tgt Ion:131 Resp: 74356

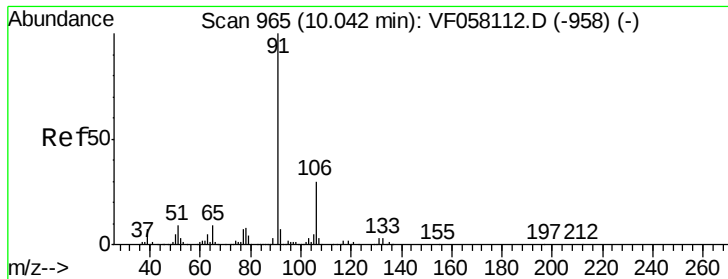
Ion Ratio Lower Upper

131 100

133 90.1 49.1 147.4

119 61.7 34.3 102.8





#67

Ethyl Benzene

Concen: 22.66 ug/l

RT: 10.04 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 91 Resp: 300843

Ion Ratio Lower Upper

91 100

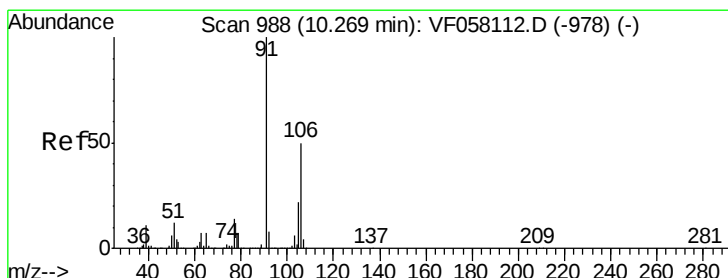
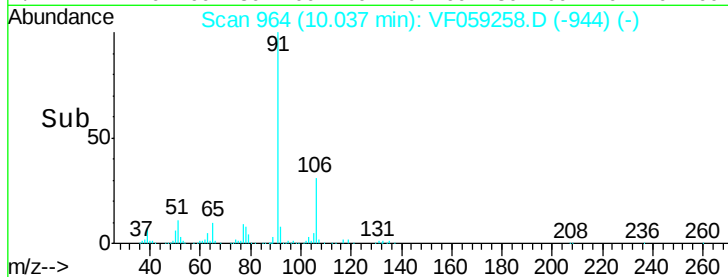
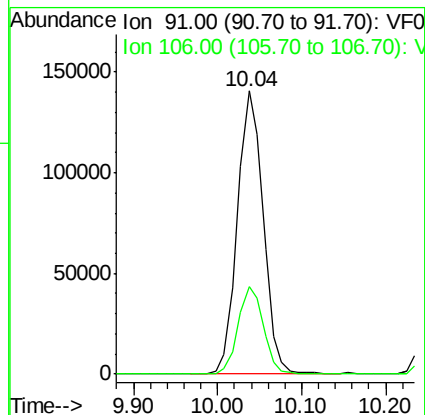
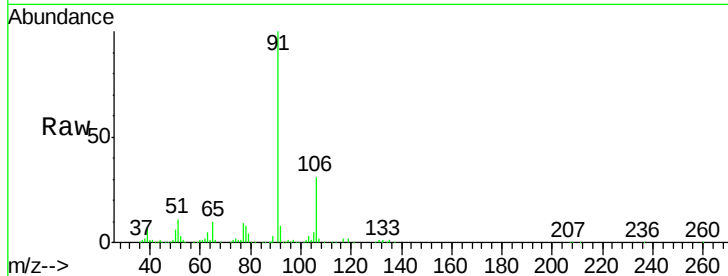
106 30.8 24.2 36.4

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#68

m/p-Xylenes

Concen: 43.72 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.00 min

Lab File: VF059258.D

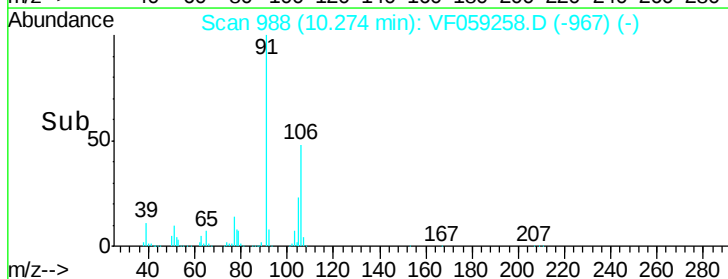
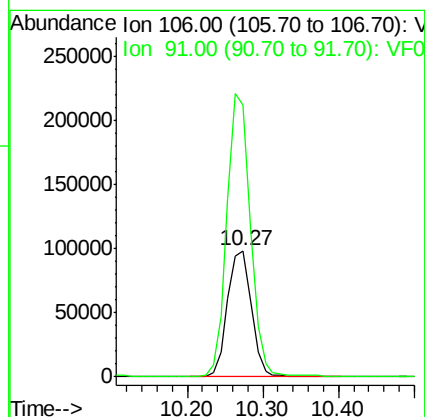
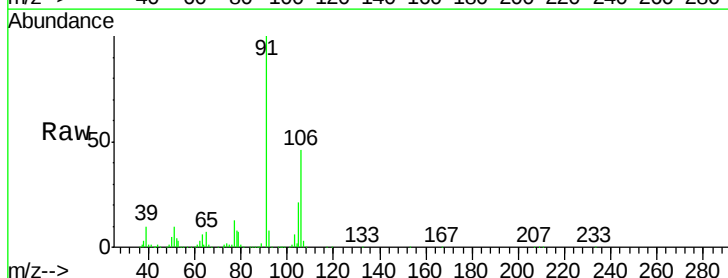
Acq: 21 Jun 2018 12:13

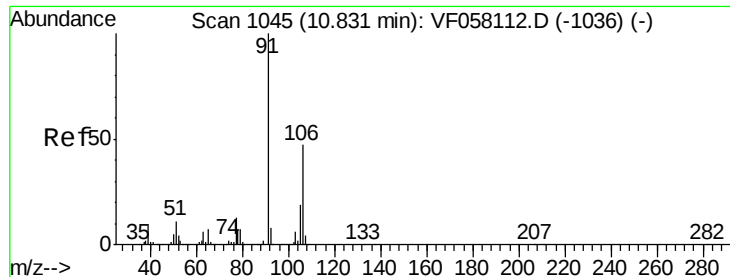
Tgt Ion: 106 Resp: 217298

Ion Ratio Lower Upper

106 100

91 215.9 160.7 241.1





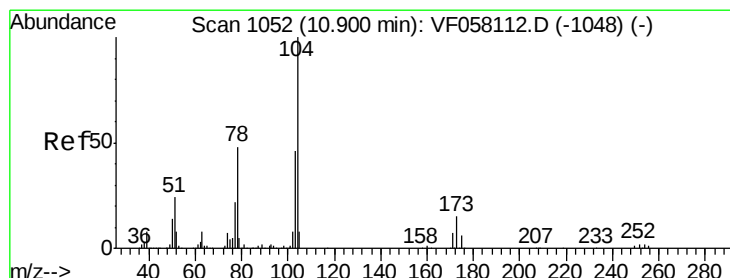
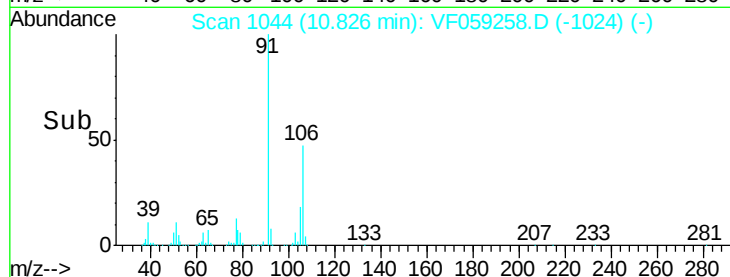
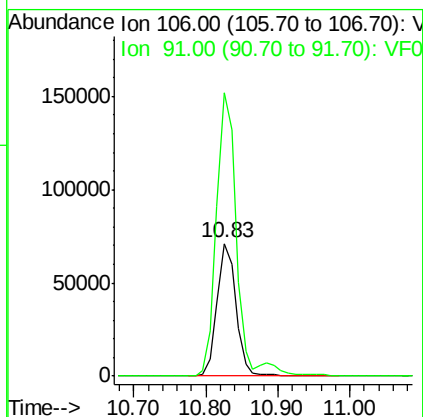
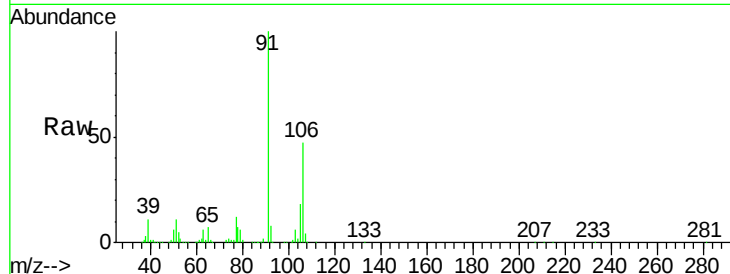
#69
o-Xylene
Concen: 24.03 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion:106 Resp: 129074
Ion Ratio Lower Upper
106 100
91 213.5 107.0 321.0

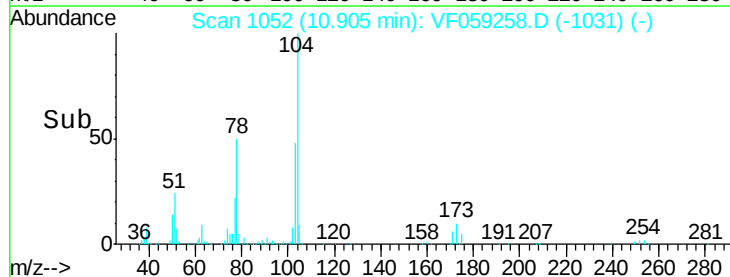
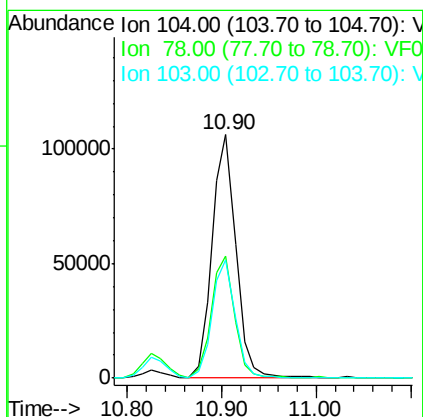
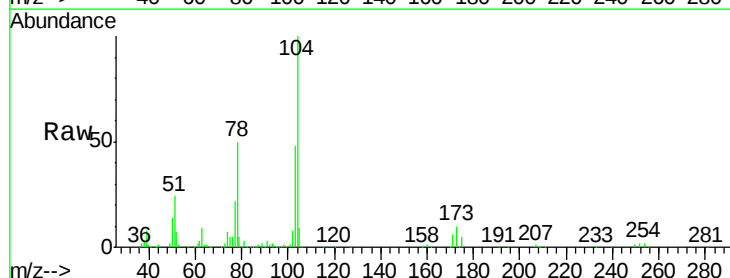
Manual Integrations
APPROVED

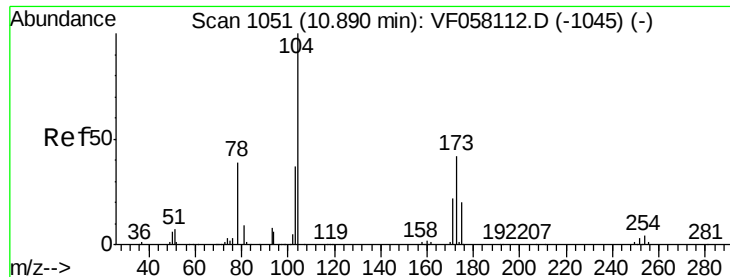
apatel
6/21/2018 4:19:35 PM



#70
Styrene
Concen: 22.80 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion:104 Resp: 185320
Ion Ratio Lower Upper
104 100
78 50.3 38.4 57.6
103 48.3 37.0 55.6





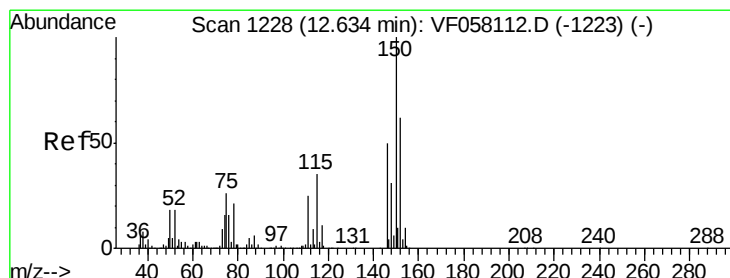
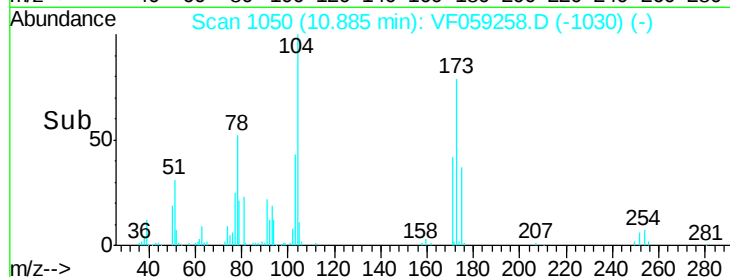
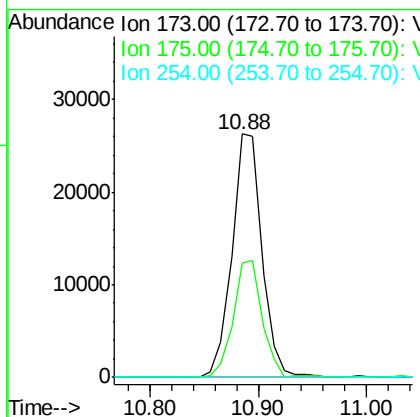
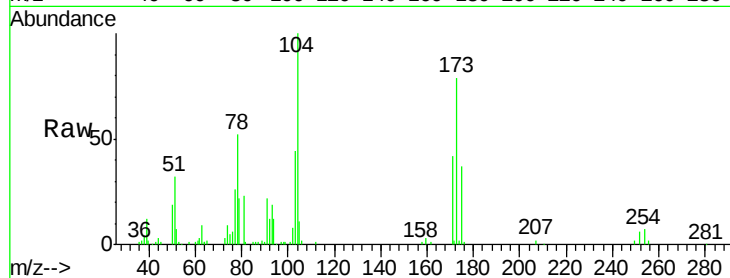
#71
Bromoform
Concen: 24.49 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.6	74.0
254	0.0	7.8	11.8

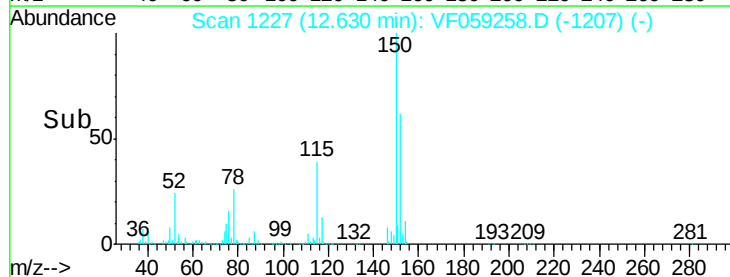
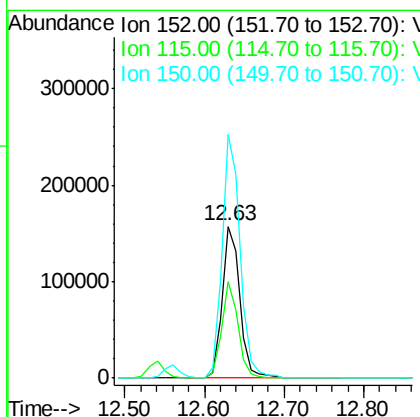
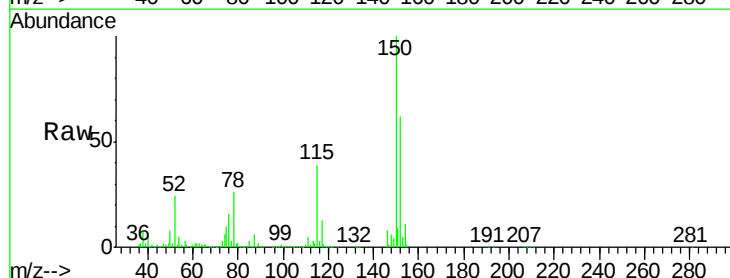
Manual Integrations
APPROVED

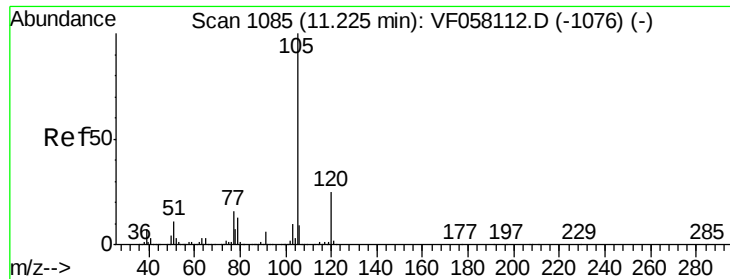
apatel
6/21/2018 4:19:35 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.2	28.5	85.5
150	160.4	0.0	323.8





#73

Isopropylbenzene

Concen: 20.76 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion: 105 Resp: 355227

Ion Ratio Lower Upper

105 100

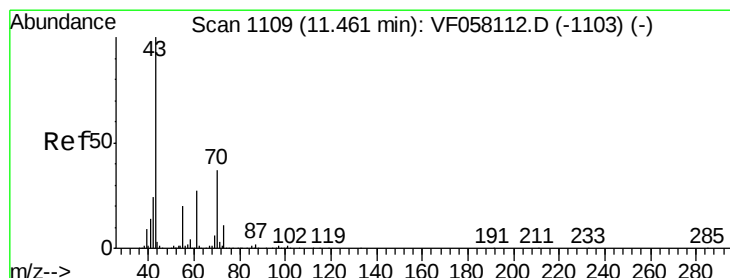
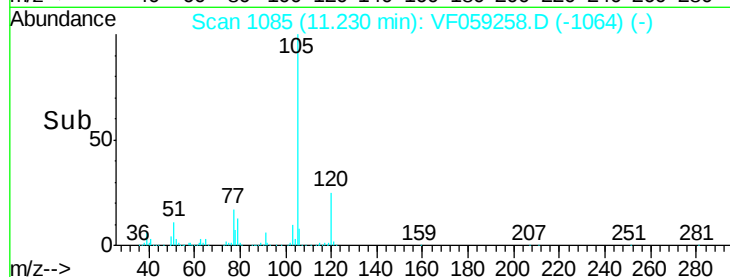
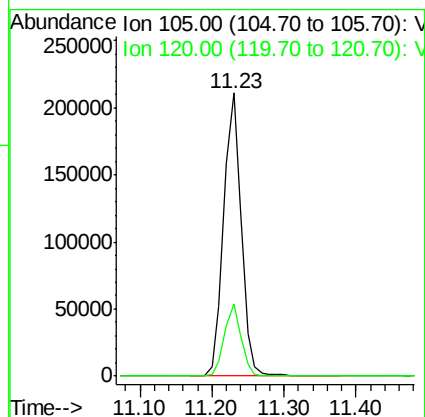
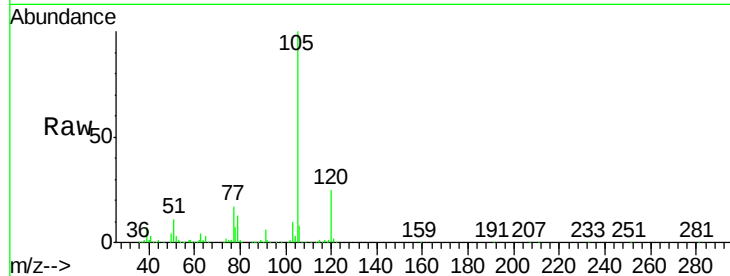
120 25.4 12.7 38.1

Manual Integrations

APPROVED

apatel

6/21/2018 4:19:35 PM



#74

N-ethyl acetate

Concen: 20.64 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion: 43 Resp: 126140

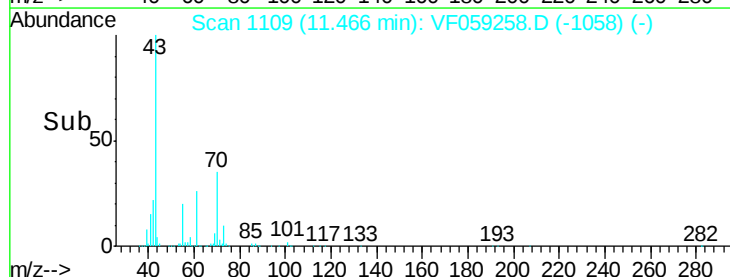
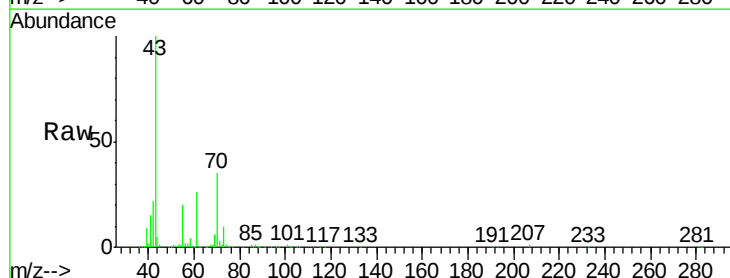
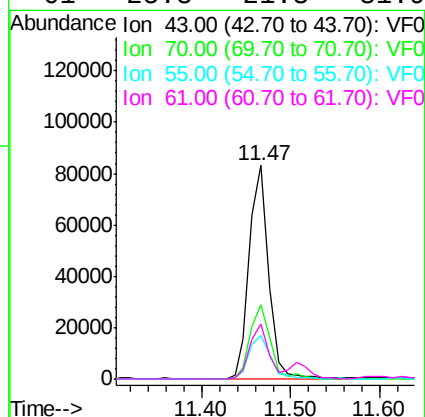
Ion Ratio Lower Upper

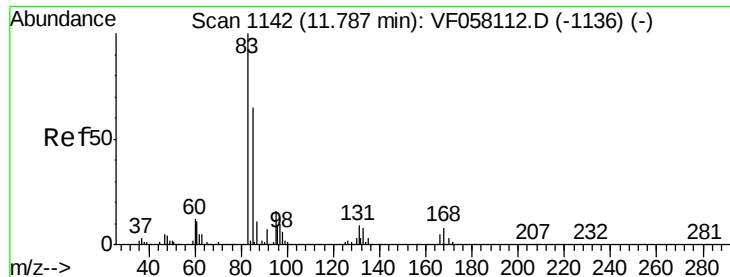
43 100

70 35.0 29.2 43.8

55 20.4 15.8 23.6

61 25.8 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 21.26 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

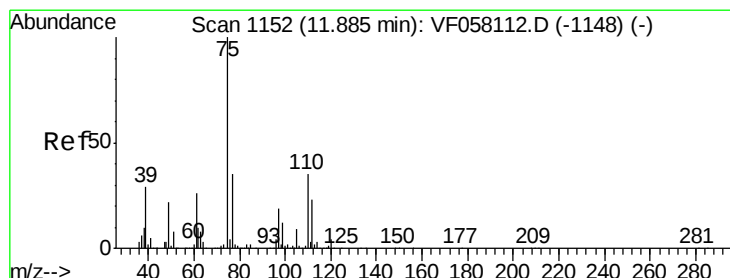
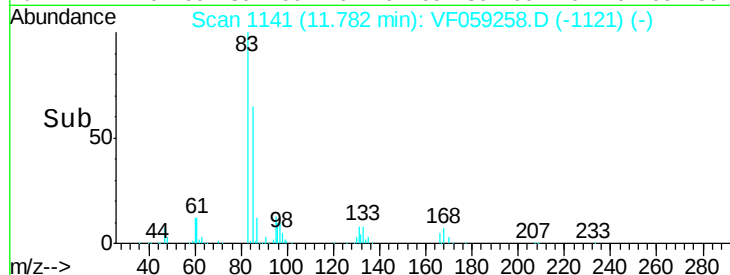
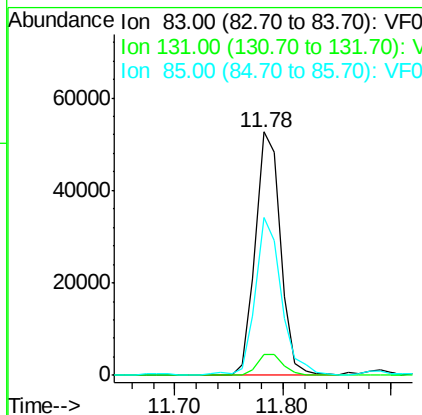
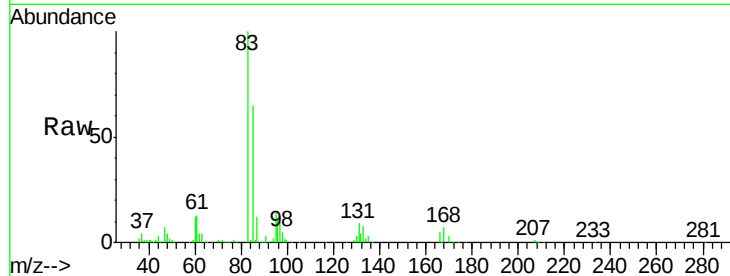
ClientSampleId :

VF0620SBS02

Tot Ion:	83	Resp:	86244
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.5	13.7
85	64.8	32.8	98.3

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#76

1,2,3-Trichloropropane

Concen: 21.86 ug/l

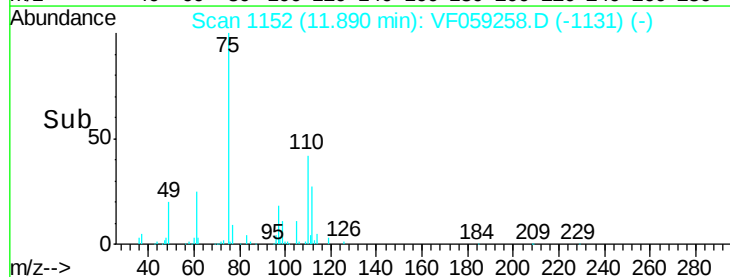
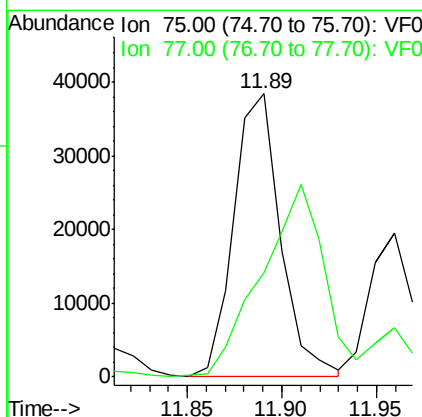
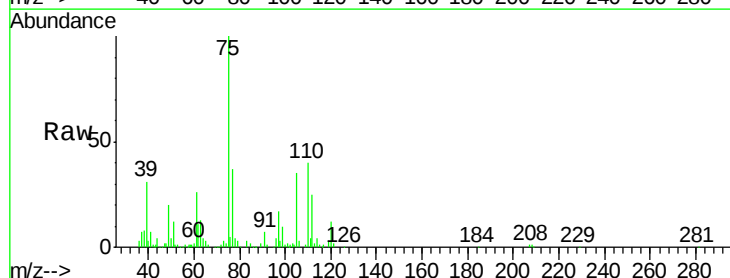
RT: 11.89 min Scan# 1152

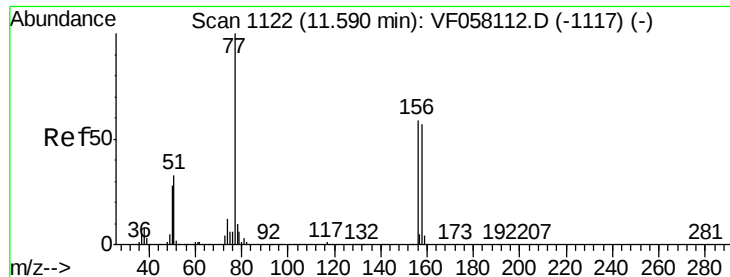
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion:	75	Resp:	65487
Ion Ratio	Lower	Upper	
75	100		
77	36.8	17.5	52.5





#77

Bromobenzene

Concen: 21.85 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

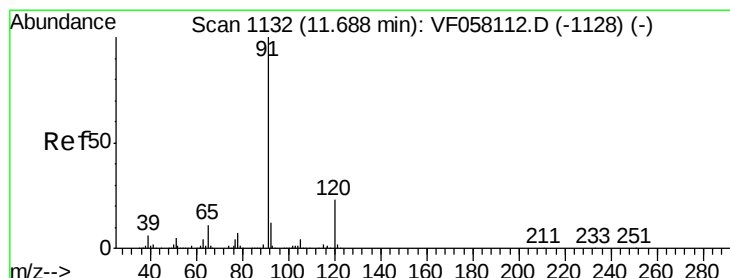
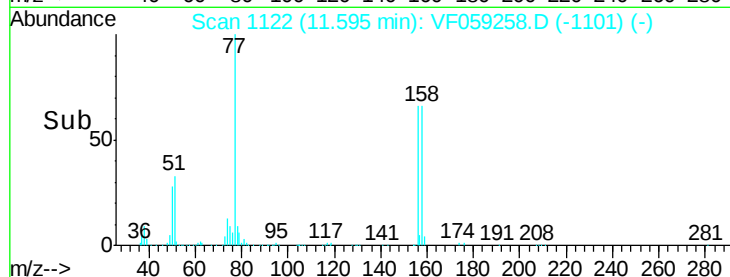
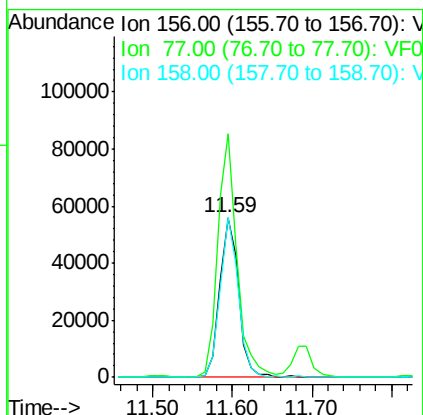
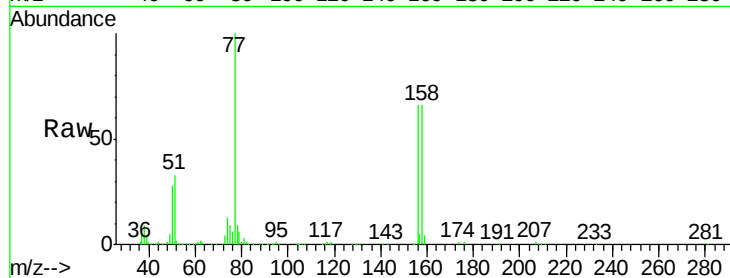
ClientSampleId :

VF0620SBS02

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	152.6	84.8	254.4	
158	100.8	47.9	143.7	

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#78

n-propylbenzene

Concen: 21.32 ug/l

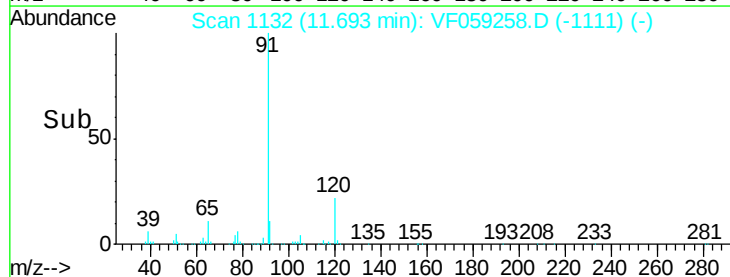
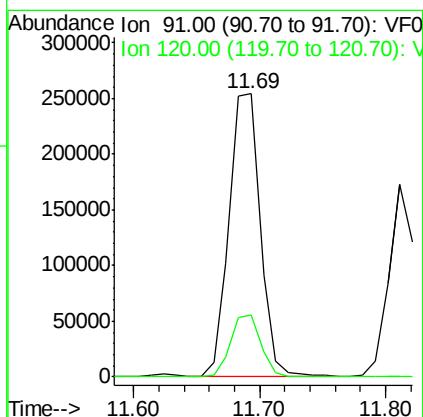
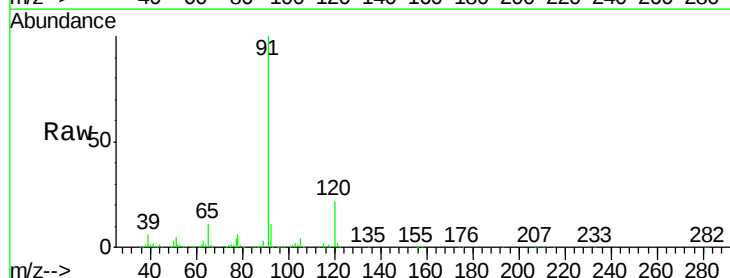
RT: 11.69 min Scan# 1132

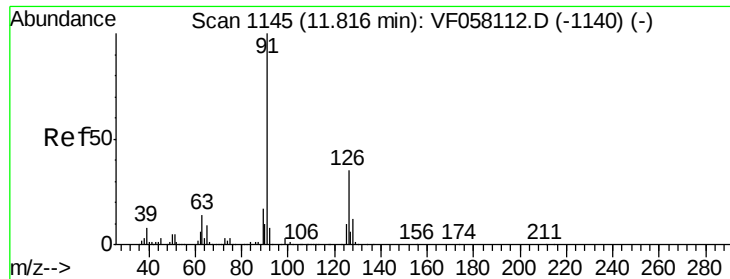
Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.0	11.5	34.5	





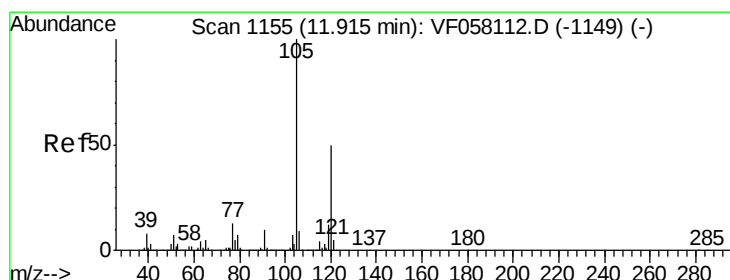
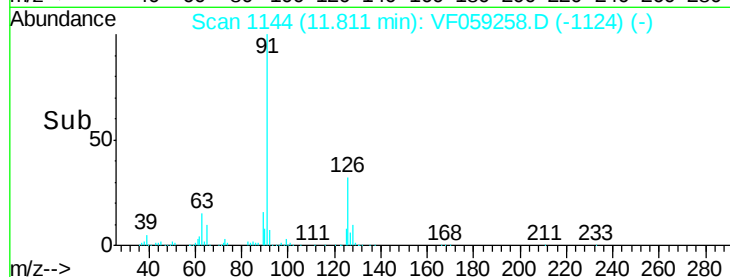
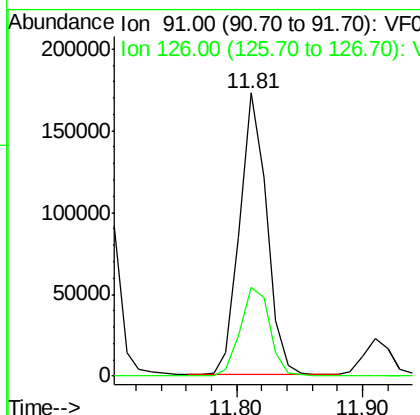
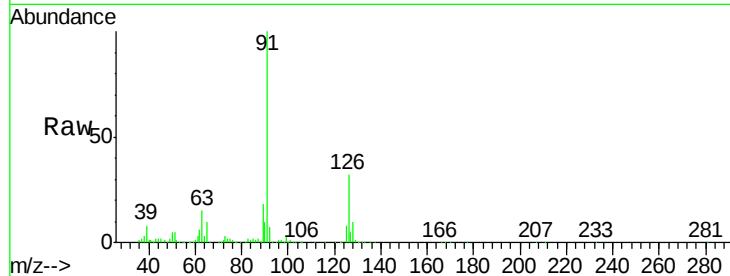
#79
 2-Chlorotoluene
 Concen: 21.36 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion: 91 Resp: 255580
 Ion Ratio Lower Upper
 91 100
 126 31.6 17.6 52.9

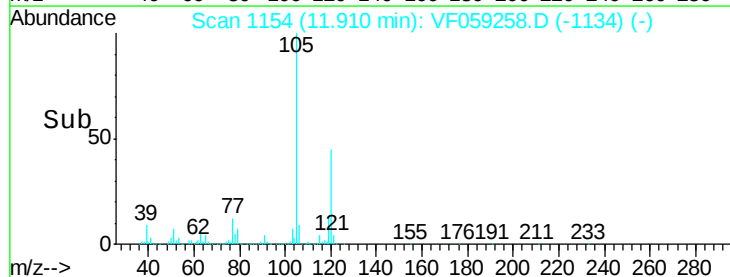
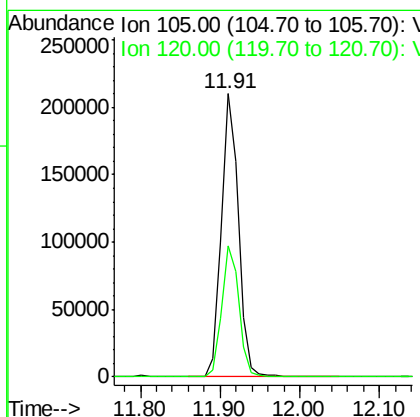
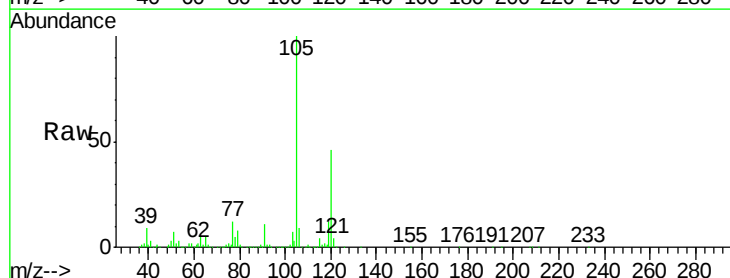
Manual Integrations
 APPROVED

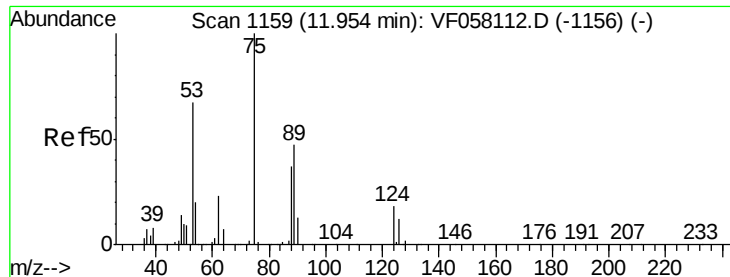
apatel
 6/21/2018 4:19:35 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 22.55 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion: 105 Resp: 319415
 Ion Ratio Lower Upper
 105 100
 120 46.2 24.9 74.6





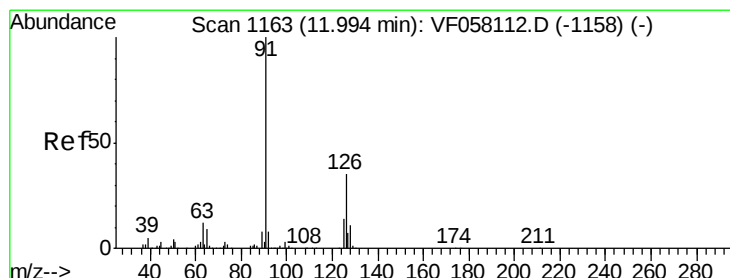
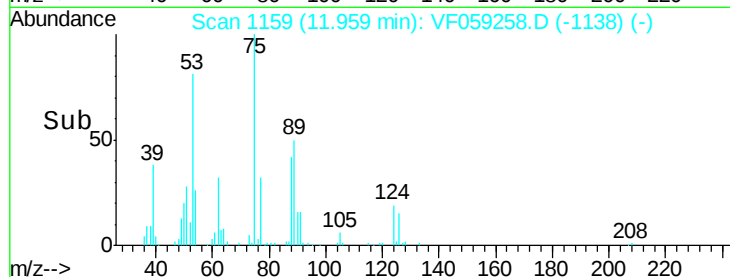
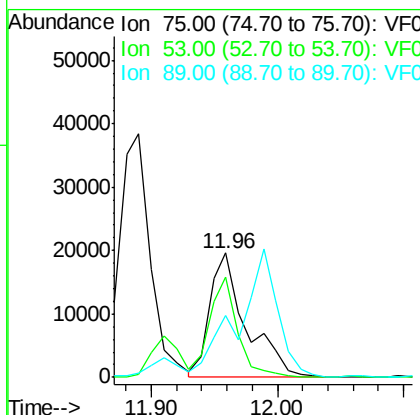
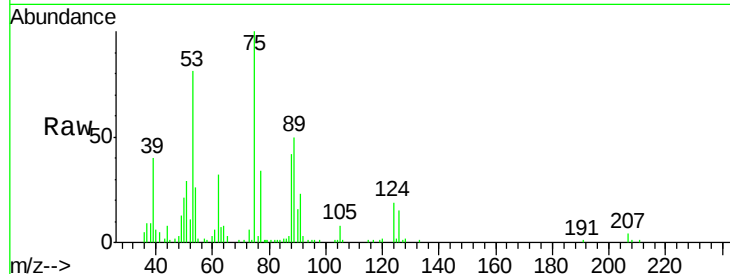
#81
trans-1,4-Dichloro-2-butene
Concen: 20.23 ug/l
RT: 11.96 min Scan# 1159
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	80.6	58.7	88.1
89	49.9	39.8	59.6

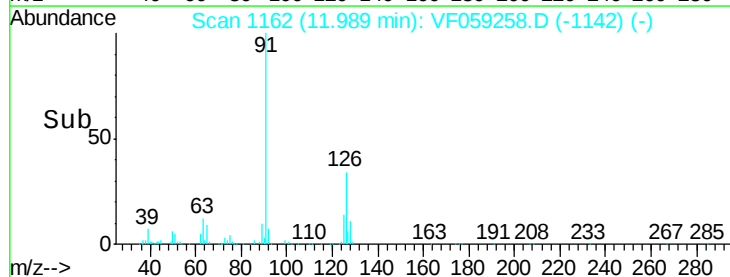
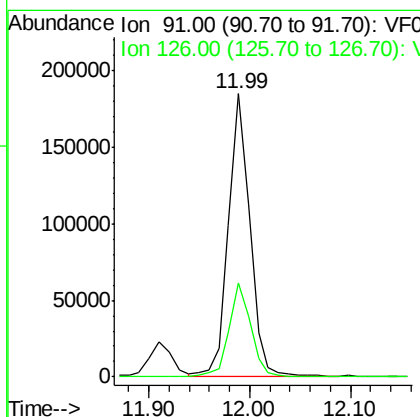
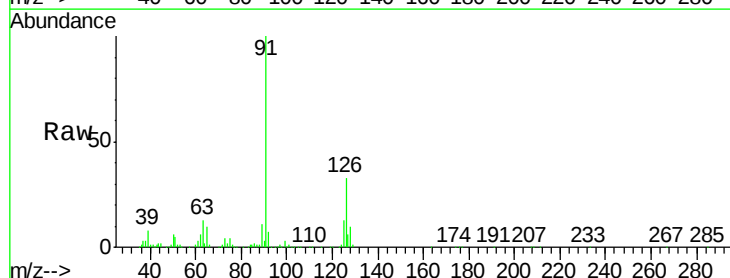
Manual Integrations
APPROVED

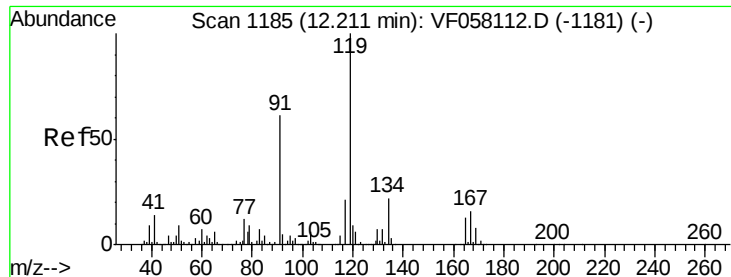
apatel
6/21/2018 4:19:35 PM



#82
4-Chlorotoluene
Concen: 21.46 ug/l
RT: 11.99 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.3	17.4	52.2





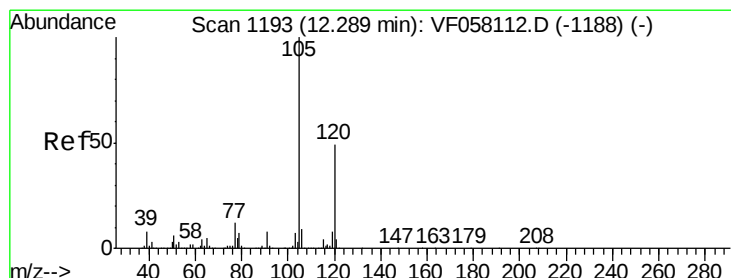
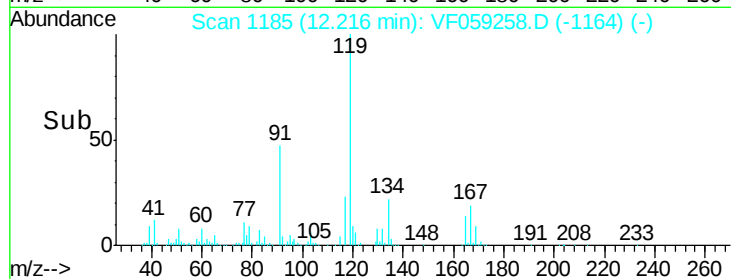
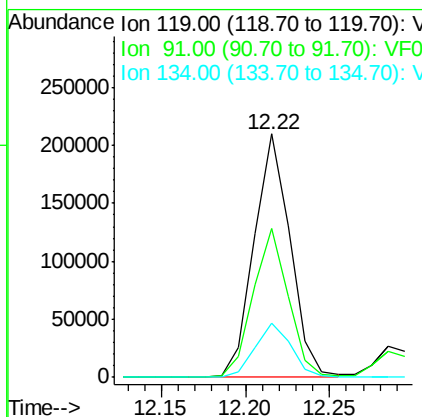
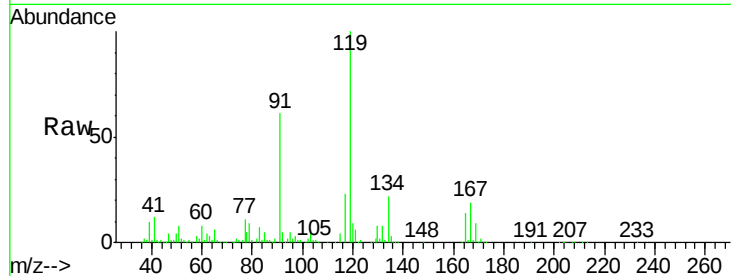
#83
tert-Butylbenzene
Concen: 22.25 ug/l
RT: 12.22 min Scan# 1185
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	312923		
91	60.9	30.4	91.3	
134	22.3	11.2	33.5	

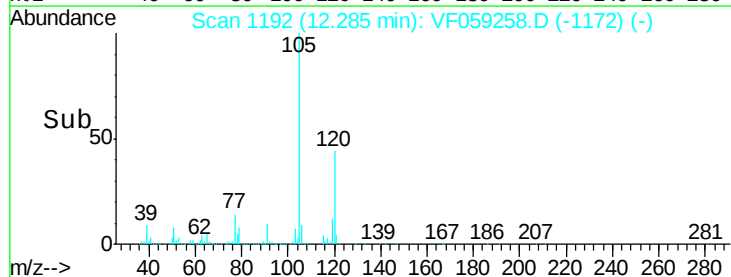
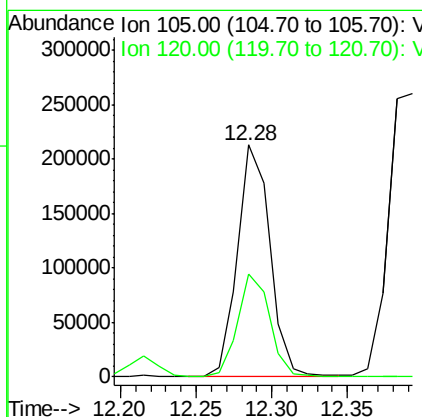
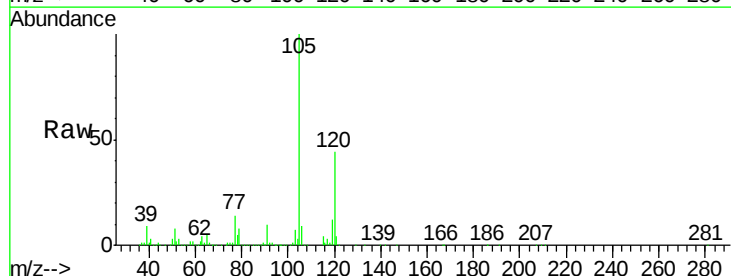
Manual Integrations
APPROVED

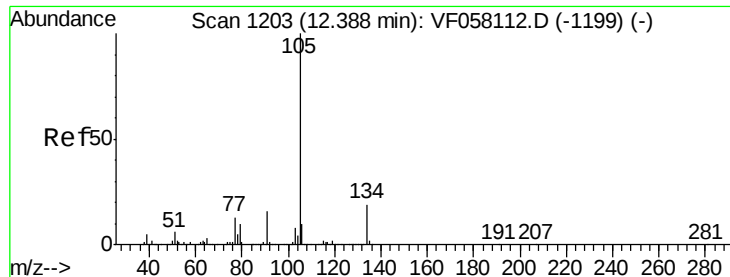
apatel
6/21/2018 4:19:35 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.66 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	317837		
120	44.2	24.7	74.1	





#85

sec-Butylbenzene

Concen: 21.75 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

ClientSampleId :

VF0620SBS02

Tot Ion:105 Resp: 415664

Ion Ratio Lower Upper

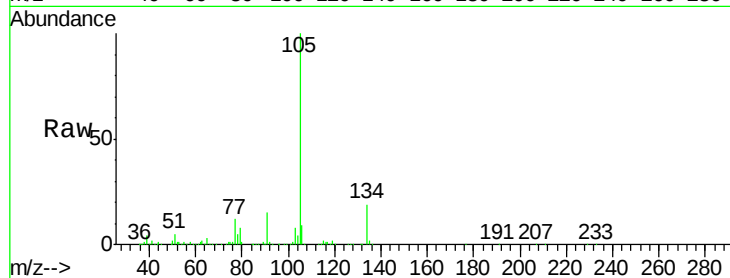
105 100

134 19.1 9.6 28.6

Manual Integrations
APPROVED

apatel

6/21/2018 4:19:35 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

250000

200000

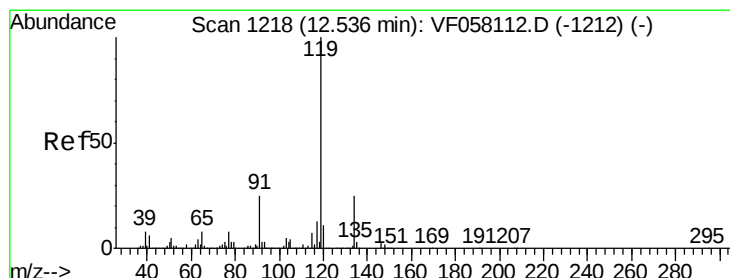
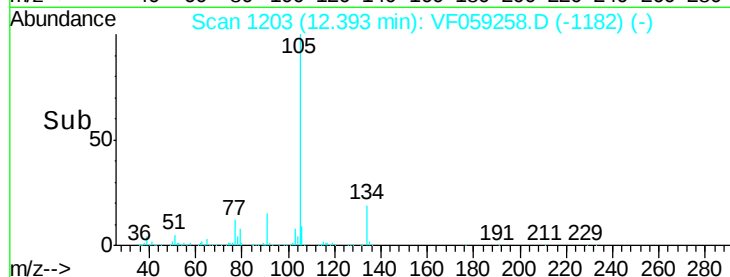
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 22.39 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

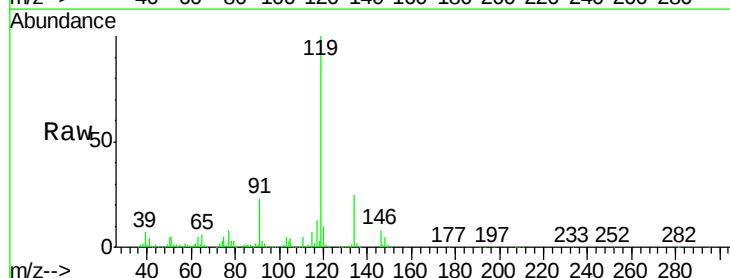
Tgt Ion:119 Resp: 351429

Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 23.3 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.54

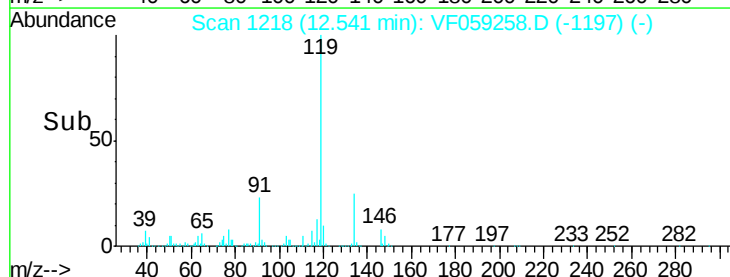
300000

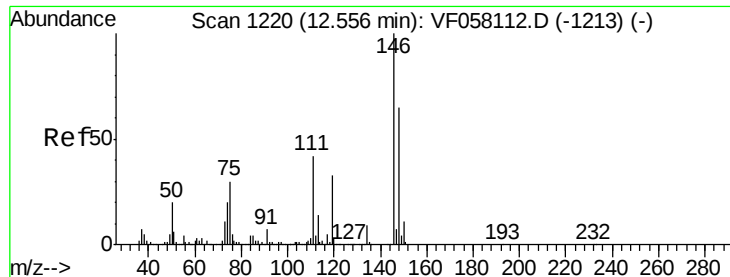
200000

100000

0

Time-->





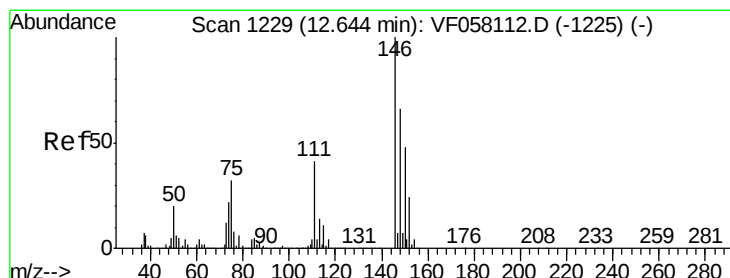
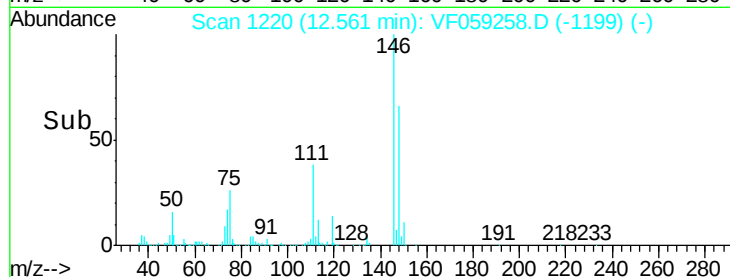
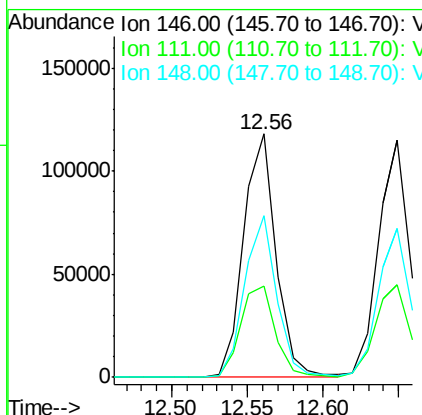
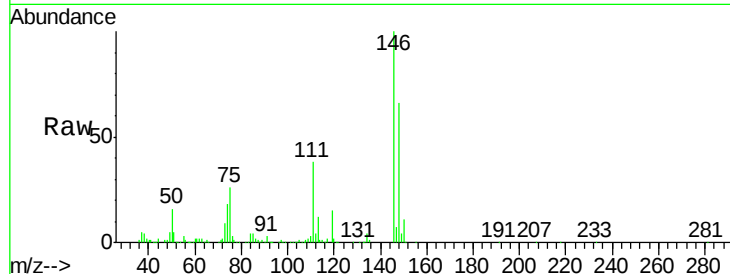
#87
 1,3-Dichlorobenzene
 Concen: 22.23 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	20.8	62.5
148	66.3	32.3	96.9

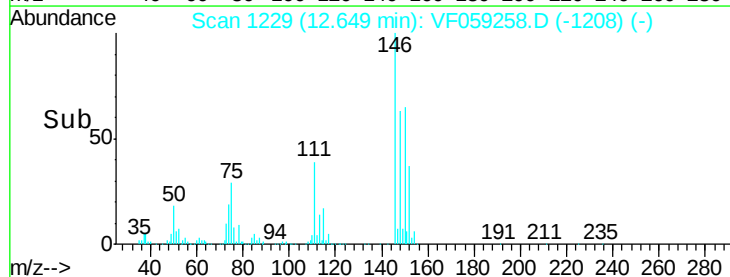
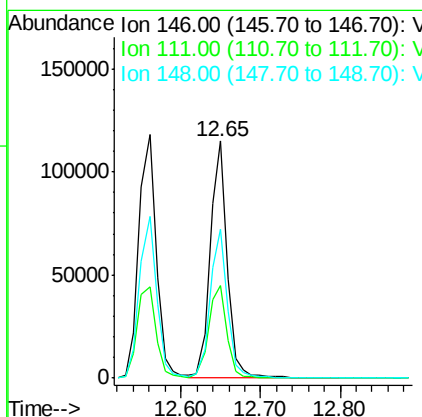
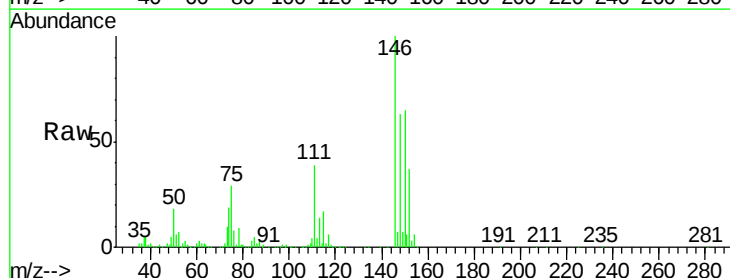
Manual Integrations
 APPROVED

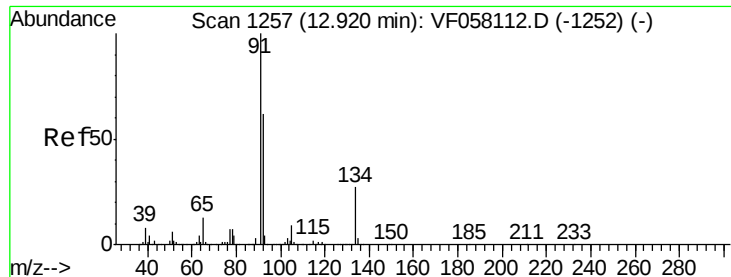
apatel
 6/21/2018 4:19:35 PM



#88
 1,4-Dichlorobenzene
 Concen: 22.34 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	20.4	61.2
148	62.9	33.0	99.0





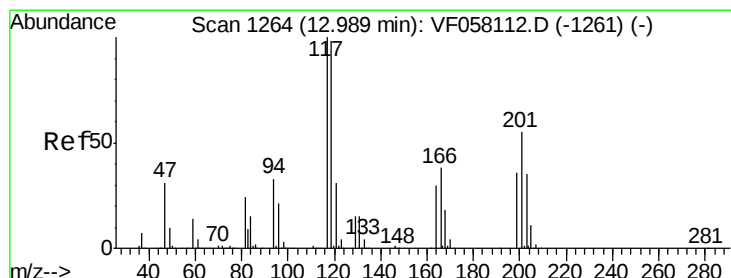
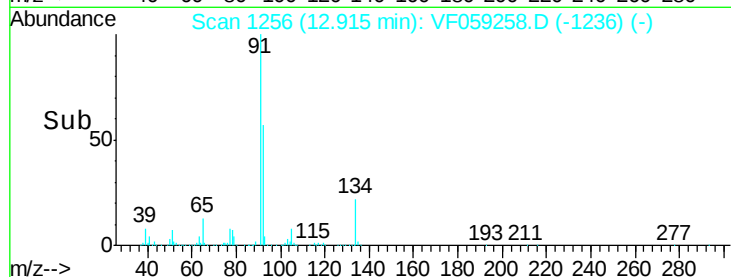
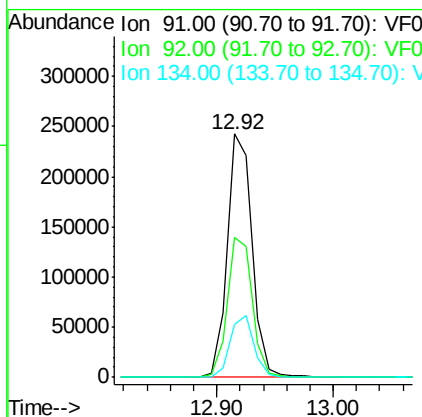
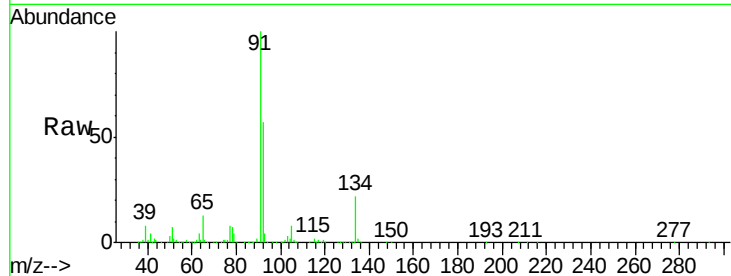
#89
n-Butylbenzene
Concen: 19.97 ug/l
RT: 12.92 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	57.3	31.1	93.5	
134	21.6	13.6	40.8	

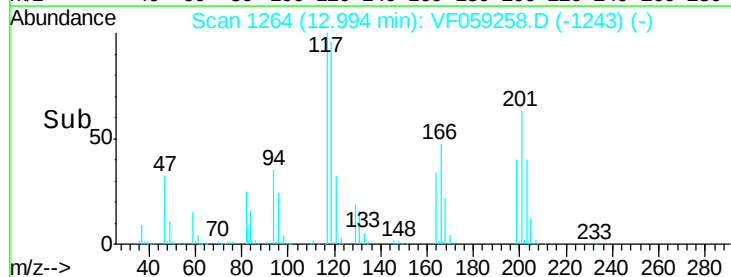
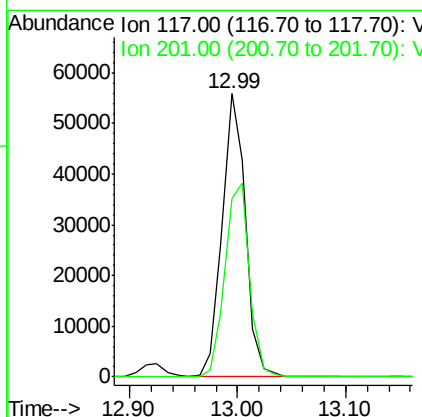
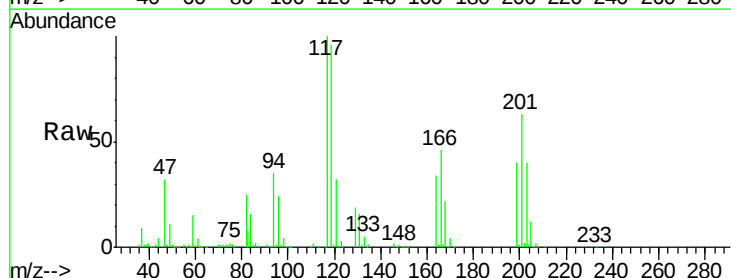
Manual Integrations
APPROVED

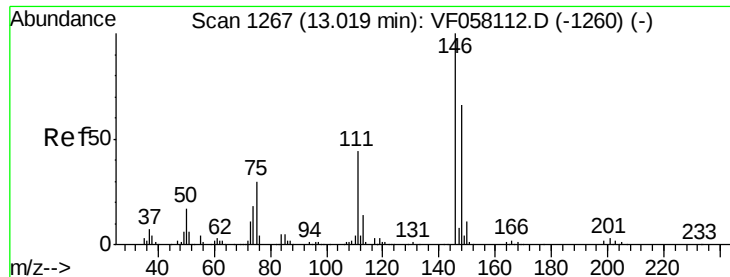
apatel
6/21/2018 4:19:35 PM



#90
Hexachloroethane
Concen: 21.72 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	64.4	27.5	82.4	





#91

1,2-Dichlorobenzene

Concen: 23.18 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059258.D

Acq: 21 Jun 2018 12:13

Instrument :

MSVOA_F

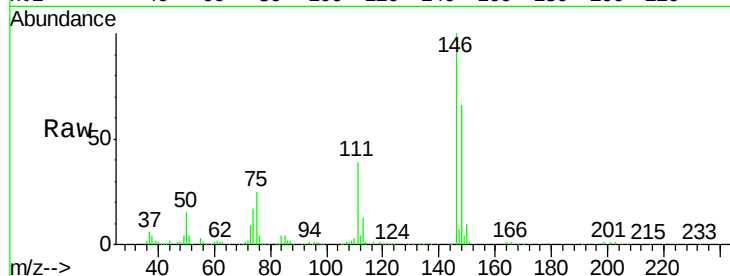
ClientSampleId :

VF0620SBS02

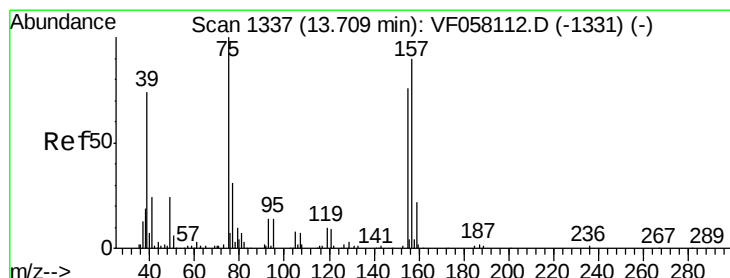
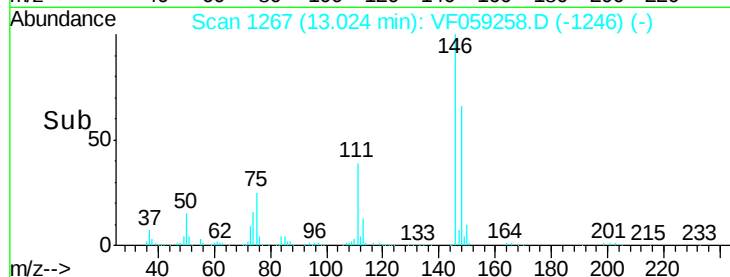
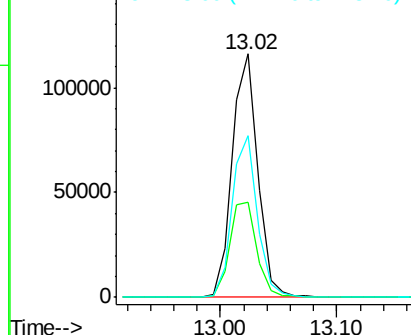
Tot Ion:	146	Resp:	177577
Ion Ratio	Lower	Upper	
146	100		
111	38.9	22.0	66.0
148	66.4	33.1	99.3

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.34 ug/l

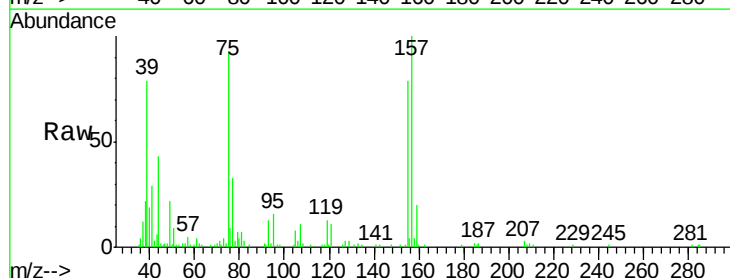
RT: 13.71 min Scan# 1337

Delta R.T. 0.00 min

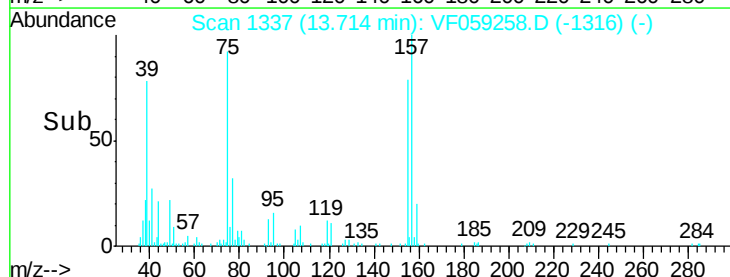
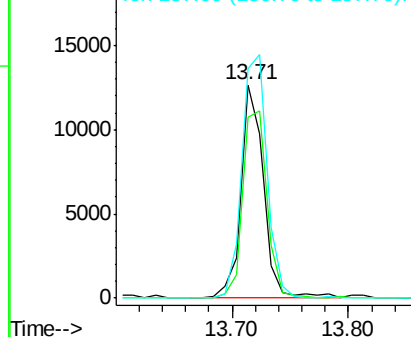
Lab File: VF059258.D

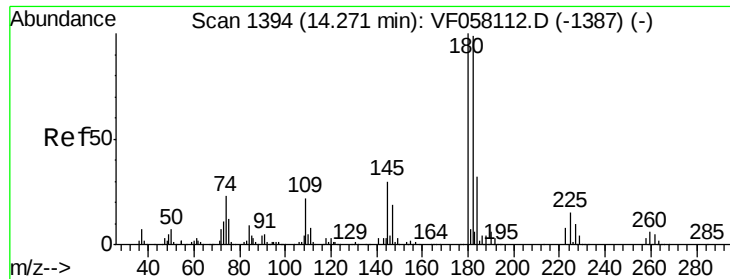
Acq: 21 Jun 2018 12:13

Tgt Ion:	75	Resp:	16982
Ion Ratio	Lower	Upper	
75	100		
155	85.1	38.0	114.0
157	107.7	45.1	135.5



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





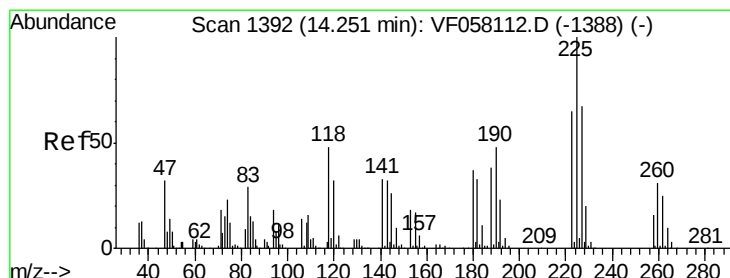
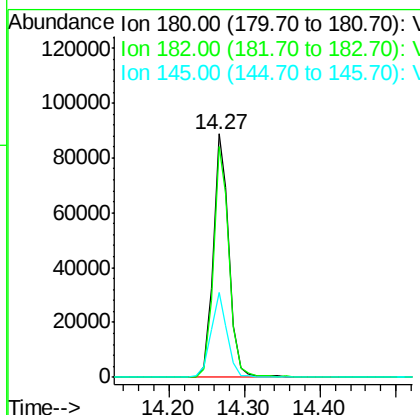
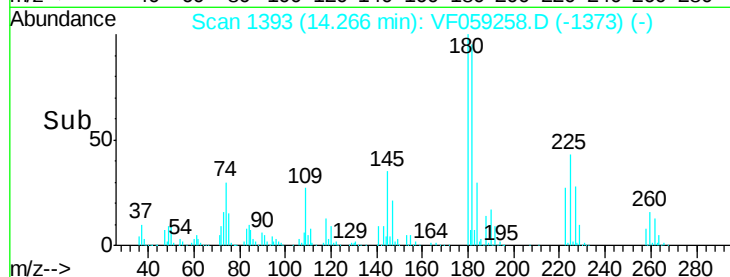
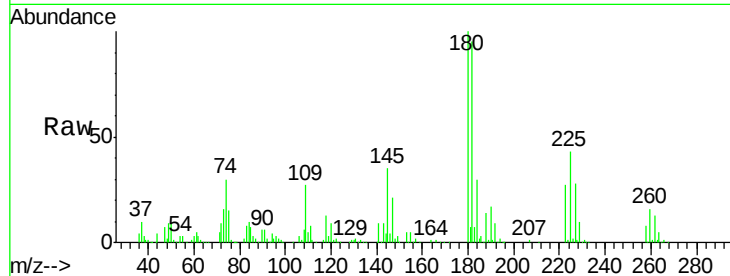
#93
 1,2,4-Trichlorobenzene
 Concen: 24.48 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0620SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	131150		
182	94.9	49.3	147.9	
145	34.8	14.9	44.9	

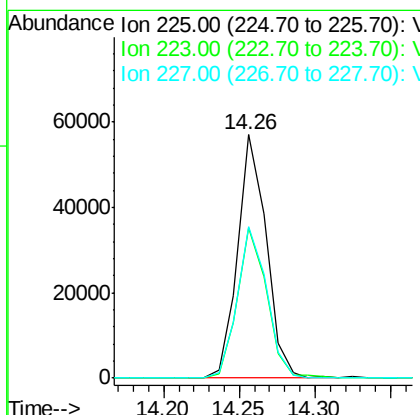
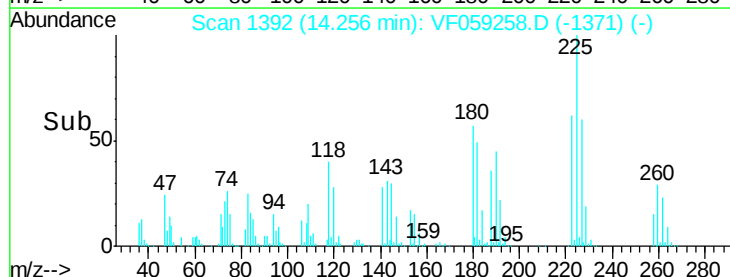
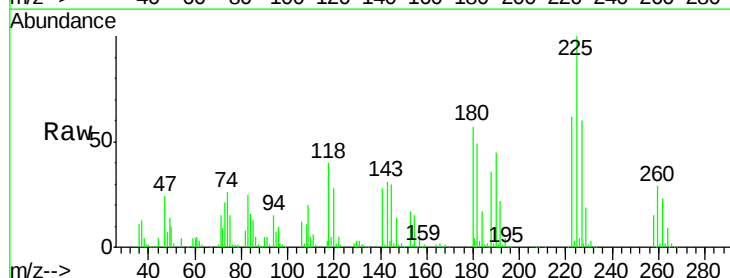
Manual Integrations
 APPROVED

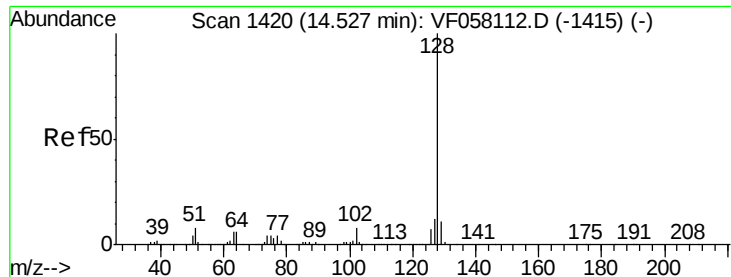
apatel
 6/21/2018 4:19:35 PM



#94
 Hexachlorobutadiene
 Concen: 24.16 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF059258.D
 Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	74905		
223	61.8	32.8	98.3	
227	62.2	33.3	99.9	





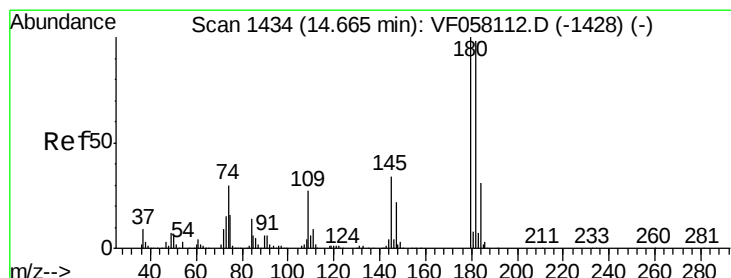
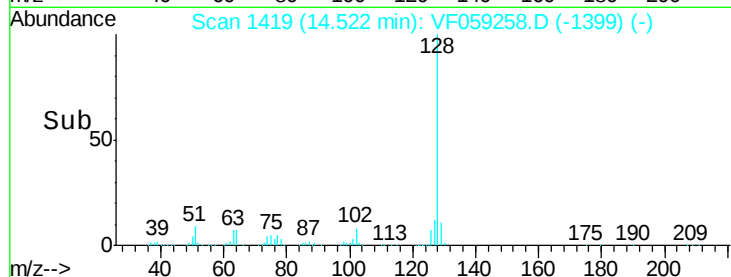
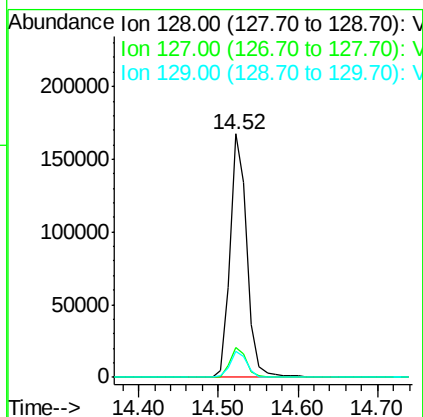
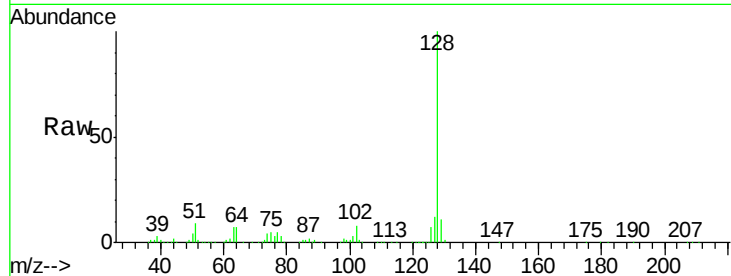
#95
Naphthalene
Concen: 21.94 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. -0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Instrument :
MSVOA_F
ClientSampleId :
VF0620SBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	10.8	8.7	13.1

Manual Integrations
APPROVED

apatel
6/21/2018 4:19:35 PM



#96
1,2,3-Trichlorobenzene
Concen: 24.14 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059258.D
Acq: 21 Jun 2018 12:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	48.9	146.6
145	29.4	17.3	51.7

