

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062518\
 Data File : VF059303.D
 Acq On : 25 Jun 2018 15:46
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 6/26/2018 10:03:14 AM

Quant Time: Jun 26 08:09:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 07:57:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	288779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	443823	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	442774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	272200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	73962	18.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.34%	
35) Dibromofluoromethane	4.28	113	68689	18.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.68%	
50) Toluene-d8	7.70	98	163947	17.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.52%	
62) 4-Bromofluorobenzene	11.50	95	100241	19.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	53352	16.36	ug/l	96
3) Chloromethane	1.08	50	31503	15.32	ug/l	99
4) Vinyl Chloride	1.14	62	33073	16.25	ug/l	97
5) Bromomethane	1.33	94	24107	17.37	ug/l	91
6) Chloroethane	1.42	64	17983	18.05	ug/l #	78
7) Trichlorofluoromethane	1.48	101	68872m	17.29	ug/l	
8) Diethyl Ether	1.69	74	15448	16.74	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.89	101	42156	18.72	ug/l	97
10) Methyl Iodide	1.96	142	68059	16.48	ug/l	93
11) Tert butyl alcohol	2.68	59	18741	75.78	ug/l #	92
12) 1,1-Dichloroethene	1.84	96	33927	16.83	ug/l #	91
13) Acrolein	2.08	56	13945	70.73	ug/l	84
14) Allyl chloride	2.18	41	61736	16.55	ug/l	97
15) Acrylonitrile	3.06	53	37294	72.90	ug/l	92
16) Acetone	2.32	43	88084	88.66	ug/l	98
17) Carbon Disulfide	1.83	76	72121	14.86	ug/l #	91
18) Methyl Acetate	2.43	43	27456	14.66	ug/l	92
19) Methyl tert-butyl Ether	2.53	73	118770	17.50	ug/l	100
20) Methylene Chloride	2.27	84	49864m	23.02	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	34116	16.46	ug/l	96
22) Diisopropyl ether	2.92	45	134835	17.39	ug/l	99
23) Vinyl Acetate	3.32	43	445326	89.65	ug/l	98
24) 1,1-Dichloroethane	2.98	63	83171	16.61	ug/l	98
25) 2-Butanone	4.49	43	104929	80.91	ug/l	99
26) 2,2-Dichloropropane	3.75	77	61487	17.72	ug/l	98
27) cis-1,2-Dichloroethene	3.62	96	52002	16.47	ug/l	92
28) Bromochloromethane	3.87	49	40865	19.53	ug/l	89
29) Tetrahydrofuran	4.25	42	46389	79.82	ug/l	97
30) Chloroform	4.02	83	123133	17.01	ug/l	97
31) Cyclohexane	3.86	56	55850	16.46	ug/l	98
32) 1,1,1-Trichloroethane	4.26	97	95634	17.62	ug/l	97
36) 1,1-Dichloropropene	4.44	75	78669	17.51	ug/l	99
37) Ethyl Acetate	4.28	43	49068	16.61	ug/l #	83
38) Carbon Tetrachloride	4.15	117	100594	18.15	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062518\
 Data File : VF059303.D
 Acq On : 25 Jun 2018 15:46
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 6/26/2018 10:03:14 AM

Quant Time: Jun 26 08:09:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 07:57:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.61	83	70664	17.49	ug/l	92
40) Benzene	4.80	78	167840	17.46	ug/l	95
41) Methacrylonitrile	4.91	41	24429	17.37	ug/l #	92
42) 1,2-Dichloroethane	5.10	62	97546	17.67	ug/l	99
43) Isopropyl Acetate	7.11	43	55063	15.49	ug/l #	99
44) Trichloroethene	5.66	130	60046	18.17	ug/l	97
45) 1,2-Dichloropropane	6.40	63	48827	17.52	ug/l	98
46) Dibromomethane	6.24	93	39974	16.72	ug/l	95
47) Bromodichloromethane	6.53	83	99194	17.40	ug/l	92
48) Methyl methacrylate	6.86	41	37419	16.44	ug/l	92
49) 1,4-Dioxane	6.85	88	4239	317.91	ug/l #	86
51) 4-Methyl-2-Pentanone	8.39	43	213188	83.06	ug/l	97
52) Toluene	7.77	92	124126	16.70	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	92085	17.29	ug/l	99
54) cis-1,3-Dichloropropene	7.44	75	98260	17.35	ug/l	93
55) 1,1,2-Trichloroethane	8.62	97	47505	16.54	ug/l	92
56) Ethyl methacrylate	8.75	69	53574	16.23	ug/l	96
57) 1,3-Dichloropropane	8.99	76	79317	16.69	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.77	63	23716	90.39	ug/l	100
59) 2-Hexanone	9.62	43	183404	89.32	ug/l	100
60) Dibromochloromethane	8.85	129	73869	17.38	ug/l	99
61) 1,2-Dibromoethane	9.13	107	54534	16.36	ug/l	98
64) Tetrachloroethene	8.29	164	56288	17.05	ug/l	89
65) Chlorobenzene	9.92	112	161914	17.70	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.06	131	69131	17.93	ug/l	95
67) Ethyl Benzene	10.02	91	285399	18.40	ug/l	94
68) m/p-Xylenes	10.26	106	197050	35.56	ug/l	95
69) o-Xylene	10.82	106	115978	18.89	ug/l	93
70) Styrene	10.89	104	170976	18.33	ug/l	99
71) Bromoform	10.88	173	45727	16.70	ug/l #	95
73) Isopropylbenzene	11.22	105	325117	17.91	ug/l	98
74) N-amyl acetate	11.45	43	107422	17.74	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.78	83	75221	17.30	ug/l	99
76) 1,2,3-Trichloropropane	11.88	75	57232	18.01	ug/l	96
77) Bromobenzene	11.58	156	87693	17.83	ug/l	97
78) n-propylbenzene	11.68	91	397763	18.61	ug/l	96
79) 2-Chlorotoluene	11.81	91	239930	18.65	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	288701	18.83	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	32663	16.26	ug/l	92
82) 4-Chlorotoluene	11.98	91	254620	18.32	ug/l	96
83) tert-Butylbenzene	12.21	119	292926	18.92	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	301649	18.60	ug/l	96
85) sec-Butylbenzene	12.38	105	383630	18.45	ug/l	98
86) p-Isopropyltoluene	12.53	119	325303	19.07	ug/l	99
87) 1,3-Dichlorobenzene	12.55	146	163232	18.49	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	157705	18.14	ug/l	98
89) n-Butylbenzene	12.91	91	341987	19.73	ug/l	96
90) Hexachloroethane	12.99	117	83215	19.37	ug/l	93
91) 1,2-Dichlorobenzene	13.01	146	160746	18.16	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	15332	16.33	ug/l	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062518\
Data File : VF059303.D
Acq On : 25 Jun 2018 15:46
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

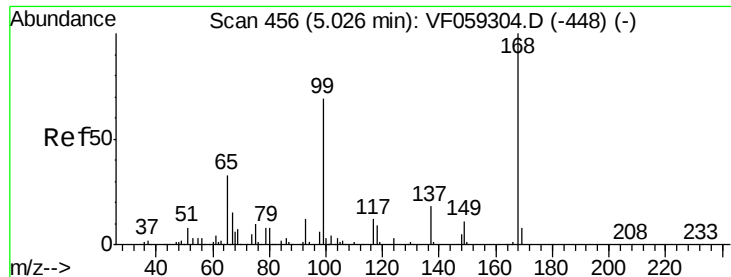
Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM

Quant Time: Jun 26 08:09:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 07:57:09 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	118051	18.39	ug/l	98
94) Hexachlorobutadiene	14.25	225	70449	18.76	ug/l	95
95) Naphthalene	14.52	128	230478	17.42	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	109669	18.17	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 168 Resp: 288779

Ion Ratio Lower Upper

168 100

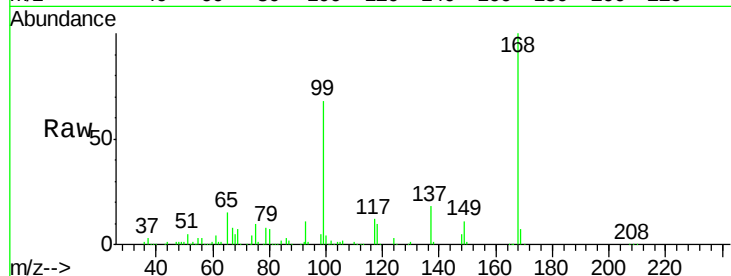
99 67.9 54.9 82.3

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

60000

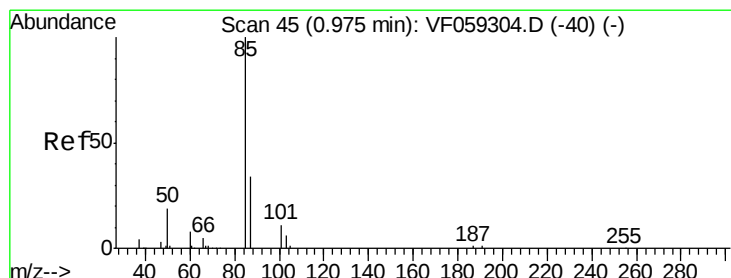
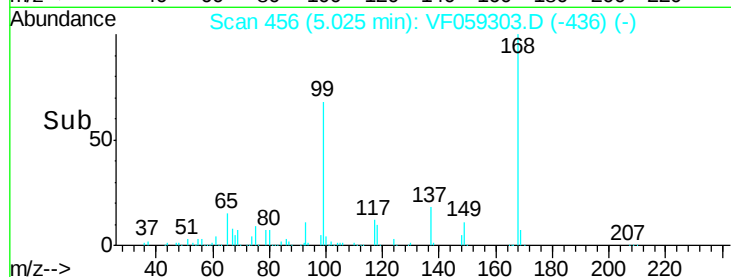
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 16.36 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059303.D

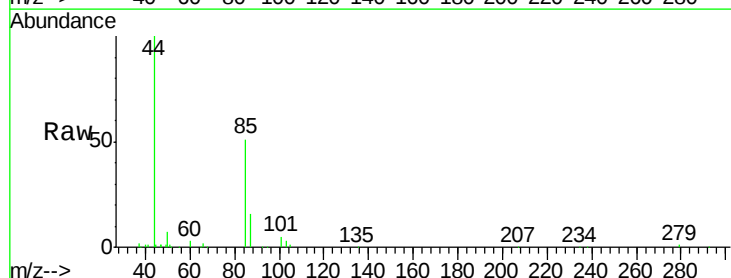
Acq: 25 Jun 2018 15:46

Tgt Ion: 85 Resp: 53352

Ion Ratio Lower Upper

85 100

87 32.0 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

15000

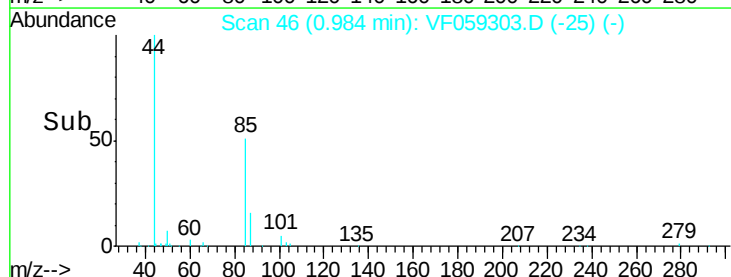
10000

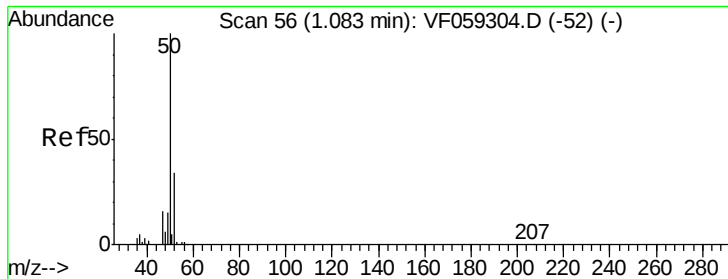
5000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 15.32 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 31503

Ion Ratio Lower Upper

50 100

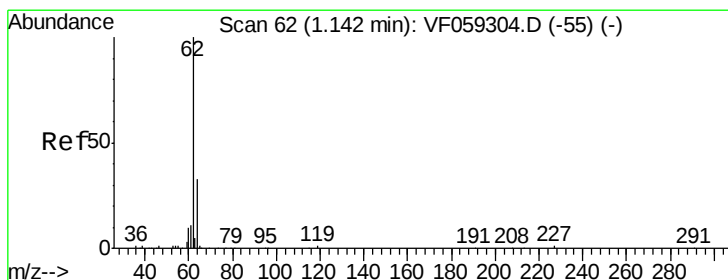
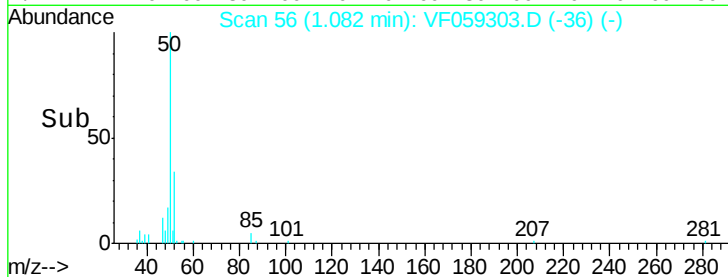
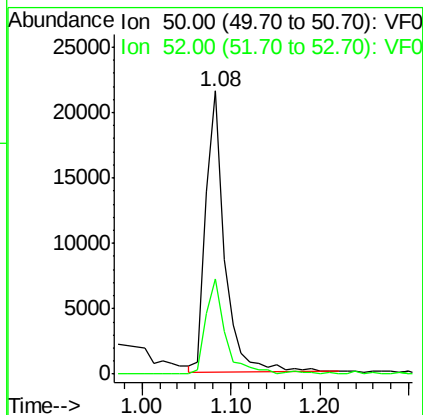
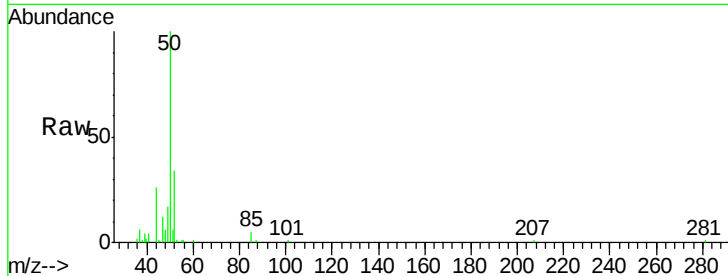
52 33.8 26.7 40.1

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#4

Vinyl Chloride

Concen: 16.25 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059303.D

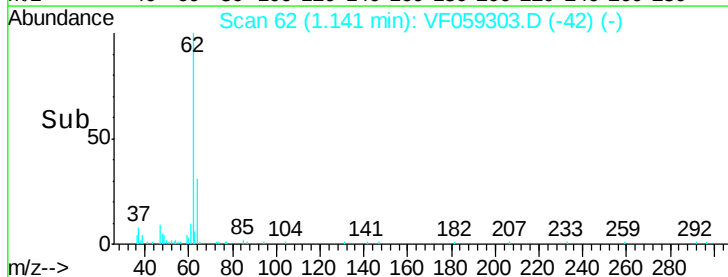
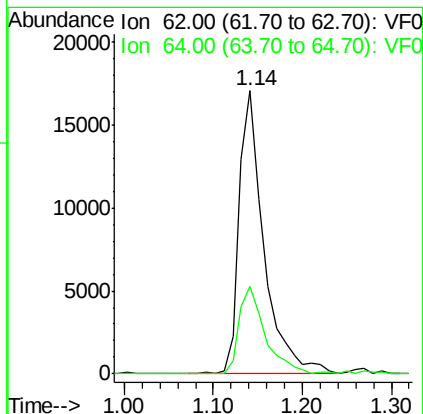
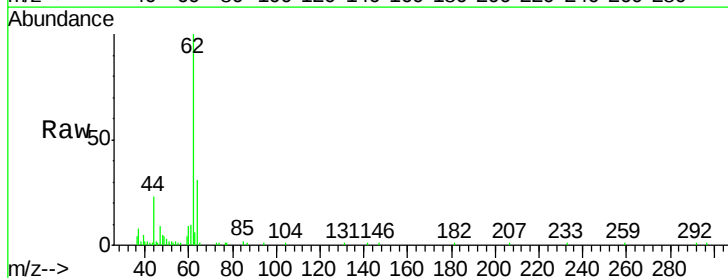
Acq: 25 Jun 2018 15:46

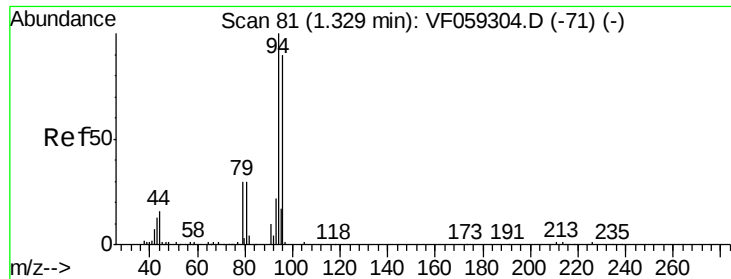
Tgt Ion: 62 Resp: 33073

Ion Ratio Lower Upper

62 100

64 31.0 26.3 39.5





#5

Bromomethane

Concen: 17.37 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 24107

Ion Ratio Lower Upper

94 100

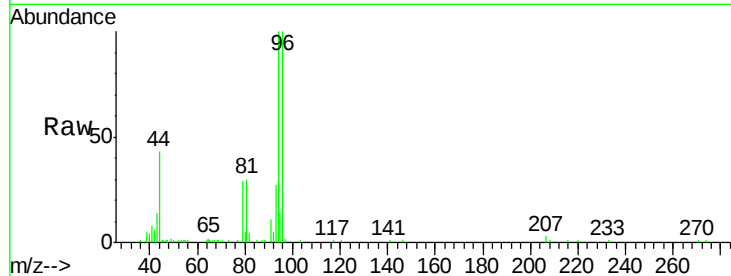
96 100.2 73.4 110.0

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

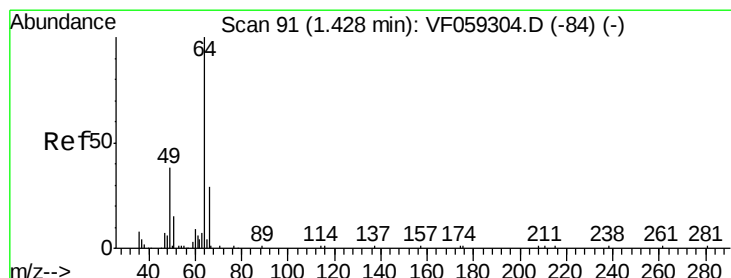
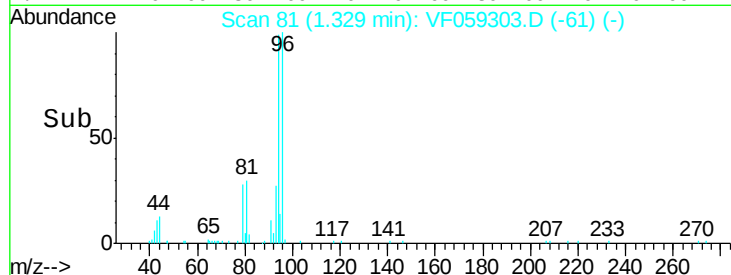
15000

10000

5000

0

Time--> 1.20 1.30 1.40



#6

Chloroethane

Concen: 18.05 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059303.D

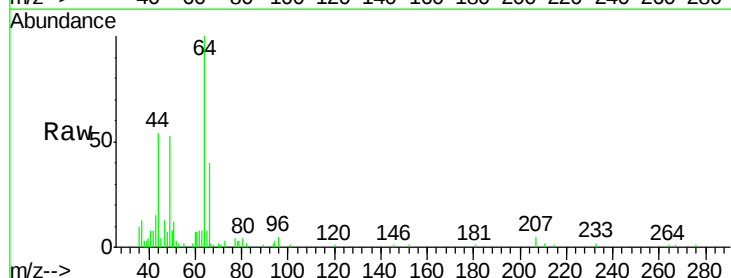
Acq: 25 Jun 2018 15:46

Tgt Ion: 64 Resp: 17983

Ion Ratio Lower Upper

64 100

66 41.7 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

8000

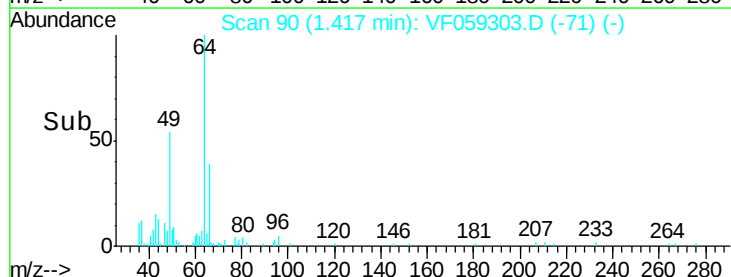
6000

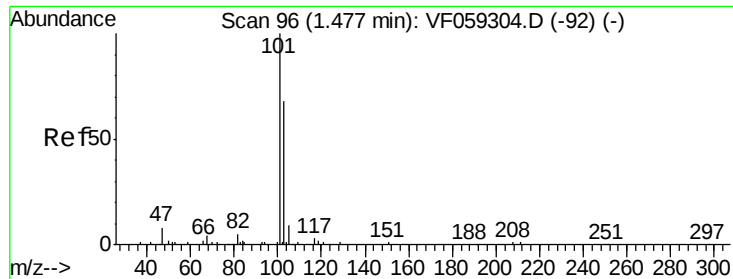
4000

2000

0

Time--> 1.30 1.35 1.40 1.45 1.50





#7

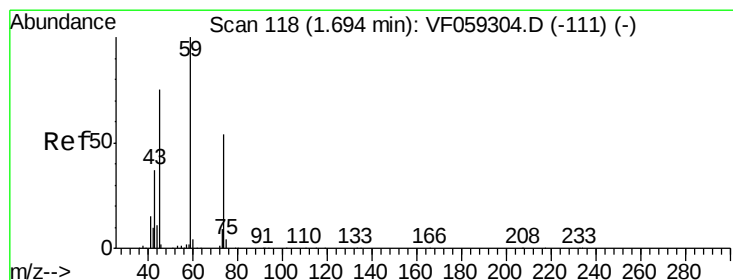
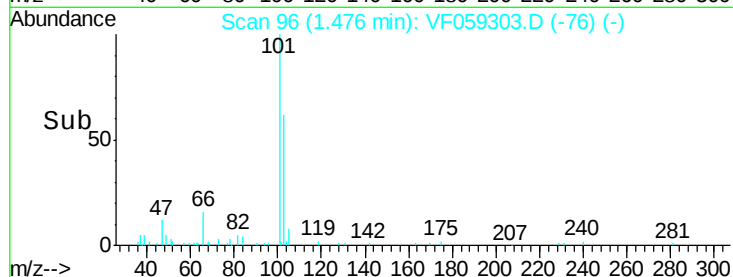
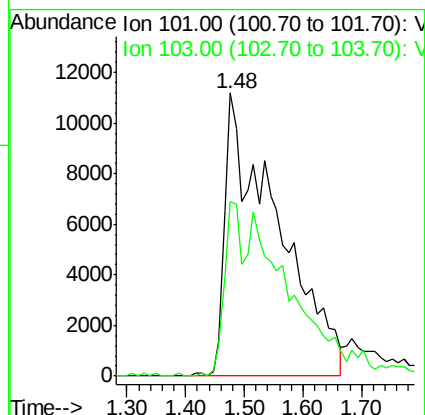
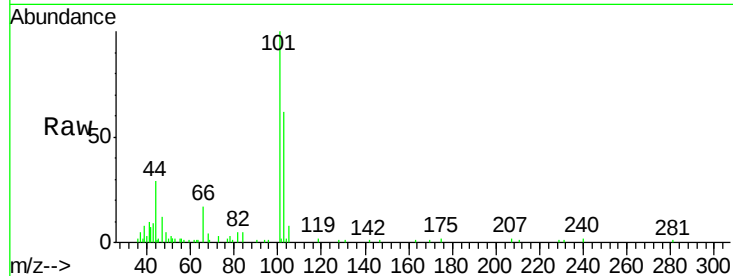
Trichlorofluoromethane
Concen: 17.29 ug/l m
RT: 1.48 min Scan# 96
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.8	54.2	81.2

Manual Integrations
APPROVED

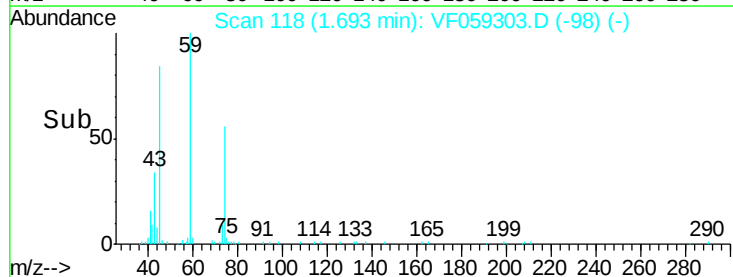
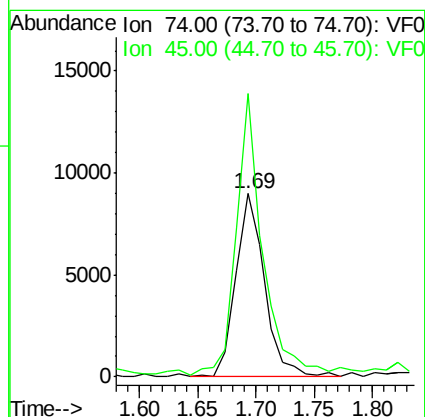
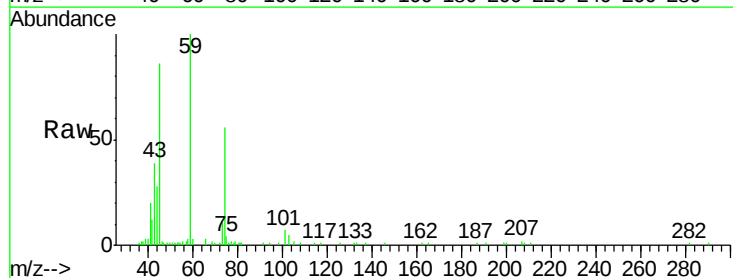
apatel
6/26/2018 10:03:14 AM

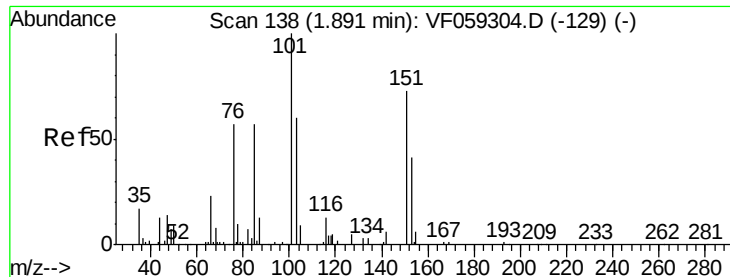


#8

Diethyl Ether
Concen: 16.74 ug/l
RT: 1.69 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	154.7	70.0	210.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.72 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

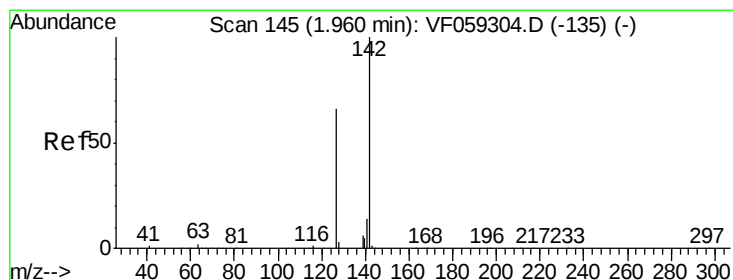
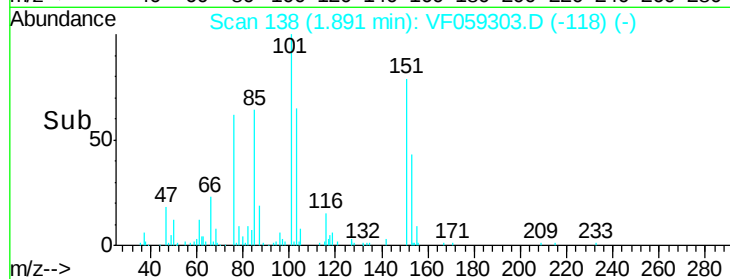
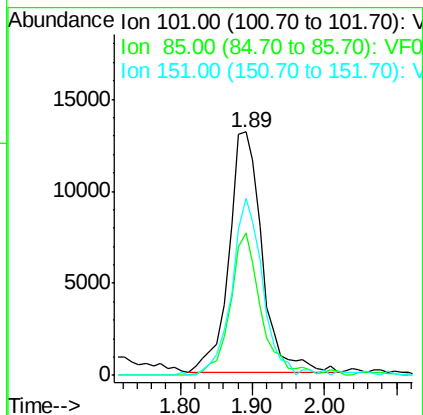
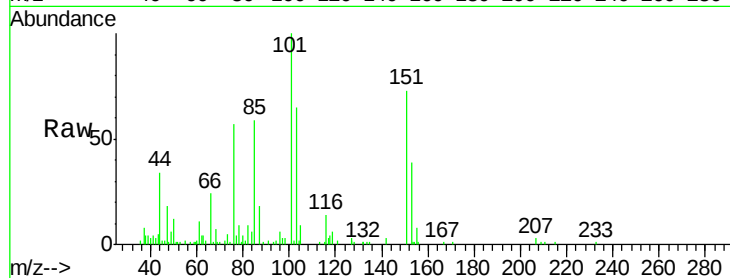
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	42156
Ion Ratio	Lower	Upper	
101	100		
85	58.7	44.5	66.7
151	72.6	56.8	85.2

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#10

Methyl Iodide

Concen: 16.48 ug/l

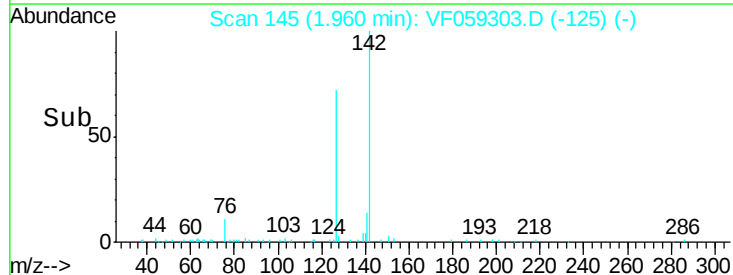
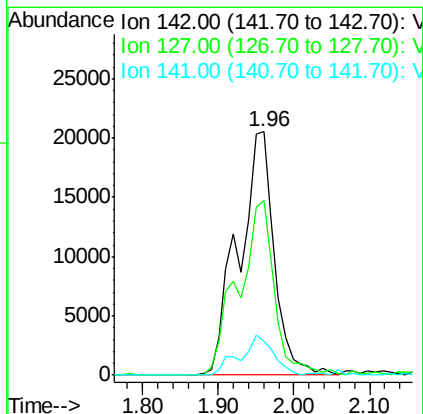
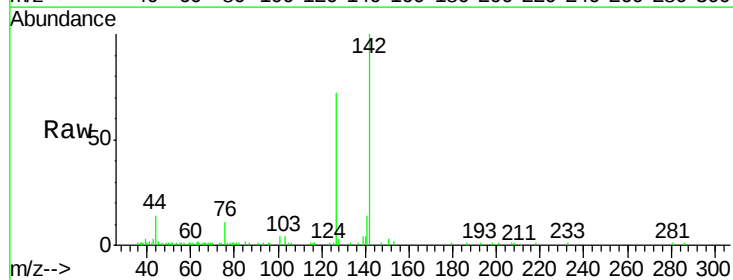
RT: 1.96 min Scan# 145

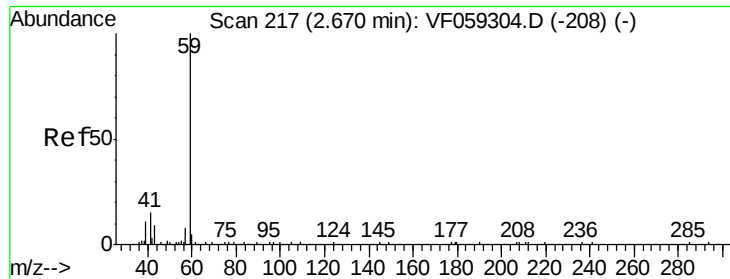
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	142	Resp:	68059
Ion Ratio	Lower	Upper	
142	100		
127	71.7	52.5	78.7
141	13.8	11.5	17.3





#11

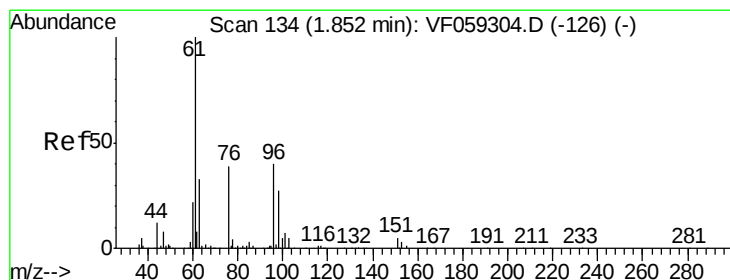
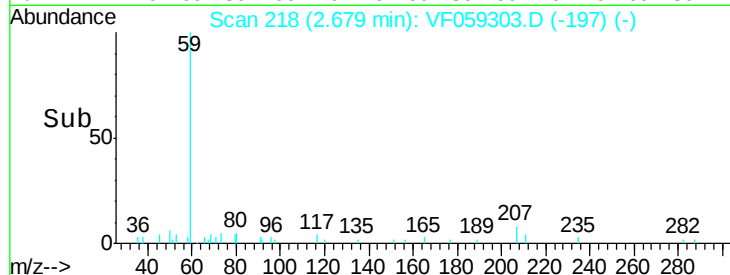
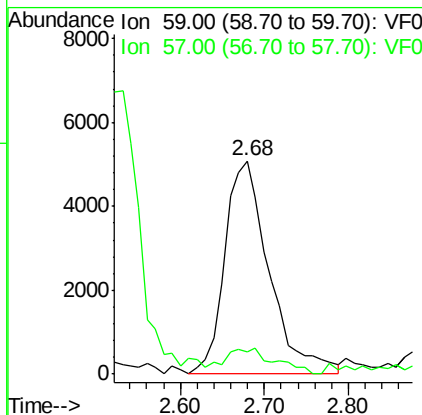
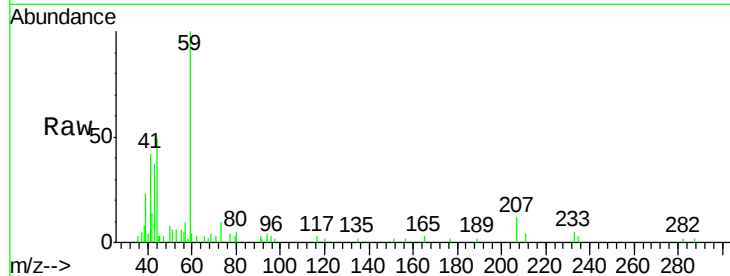
Tert butyl alcohol
Concen: 75.78 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.01 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	11.0	16.4#

Manual Integrations
APPROVED

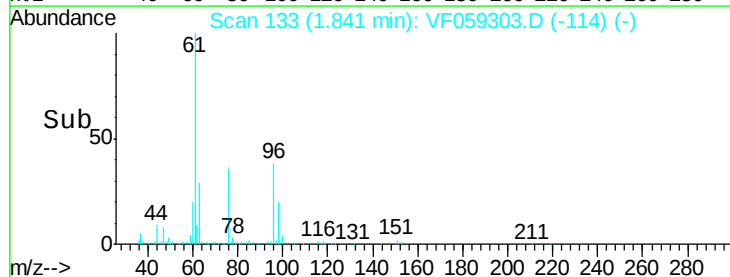
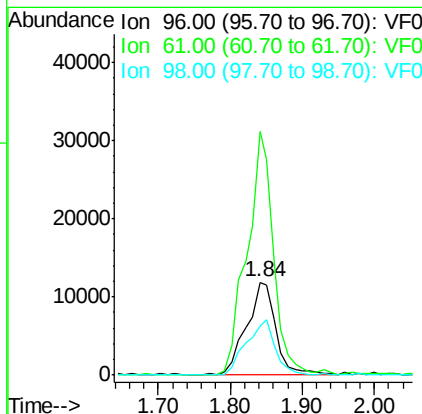
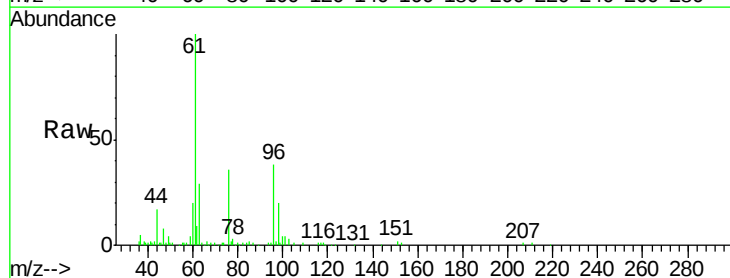
apatel
6/26/2018 10:03:14 AM

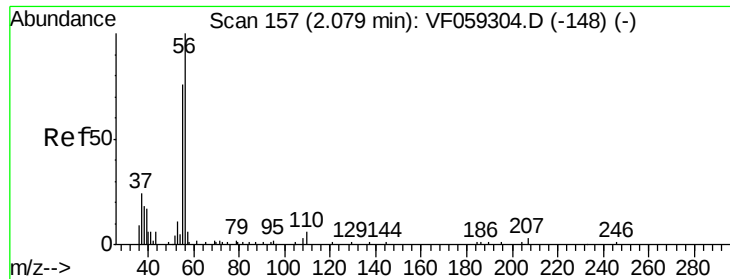


#12

1,1-Dichloroethene
Concen: 16.83 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	261.7	201.1	301.7
98	52.2	53.9	80.9#





#13

Acrolein

Concen: 70.73 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 13945

Ion Ratio Lower Upper

56 100

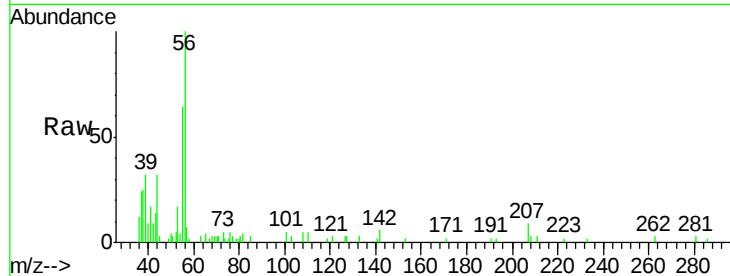
55 64.3 62.4 93.6

Manual Integrations

APPROVED

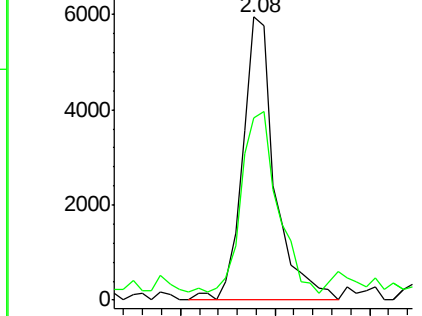
apatel

6/26/2018 10:03:14 AM

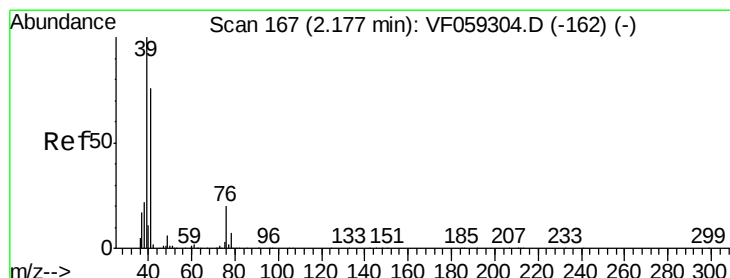
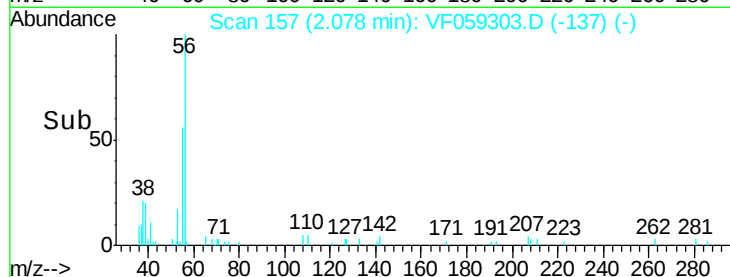


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 16.55 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

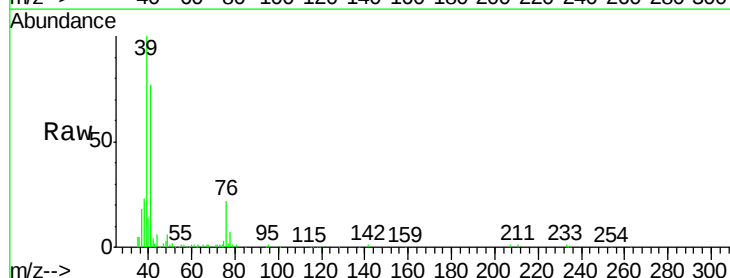
Tgt Ion: 41 Resp: 61736

Ion Ratio Lower Upper

41 100

39 129.2 105.6 158.4

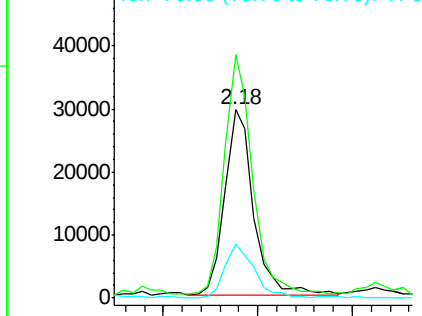
76 29.0 21.6 32.4



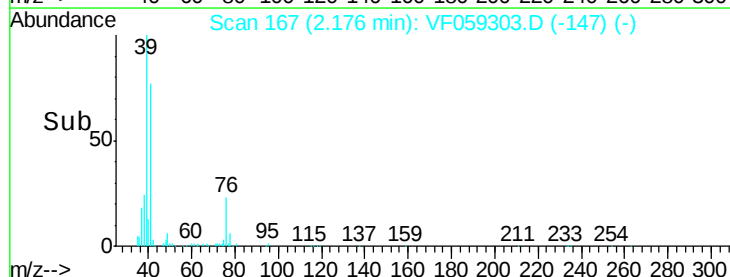
Abundance Ion 41.00 (40.70 to 41.70): VF0

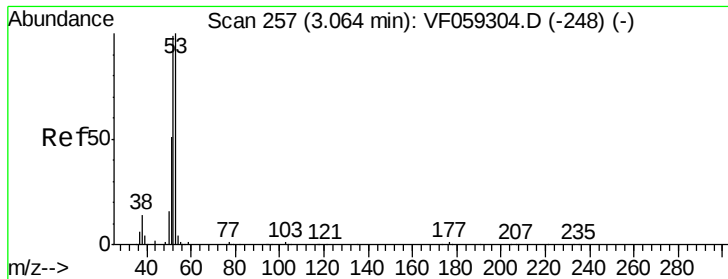
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#15

Acrylonitrile

Concen: 72.90 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

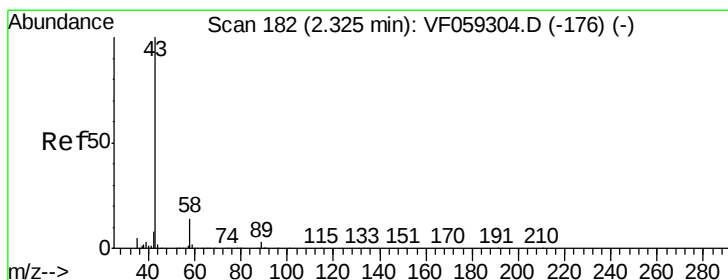
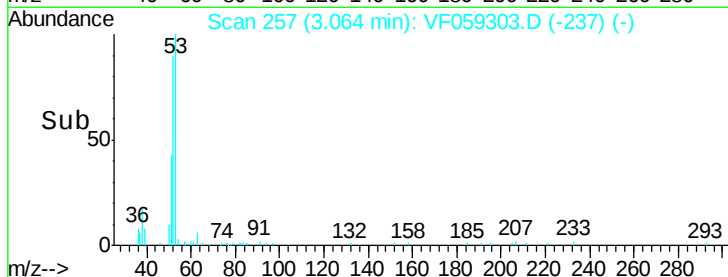
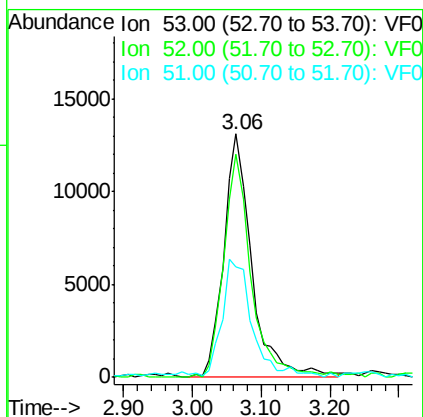
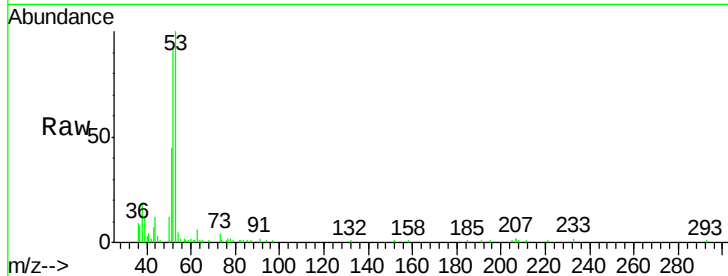
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	37294
Ion	Ratio	Lower	Upper
53	100		
52	91.5	79.2	118.8
51	45.1	40.9	61.3

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#16

Acetone

Concen: 88.66 ug/l

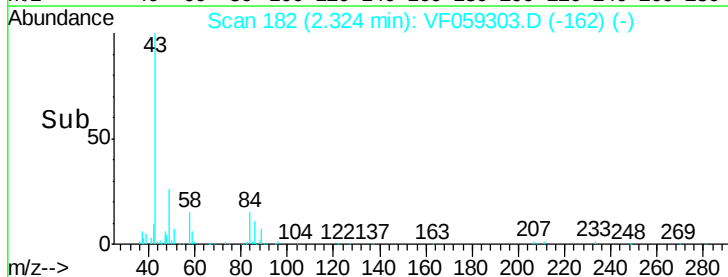
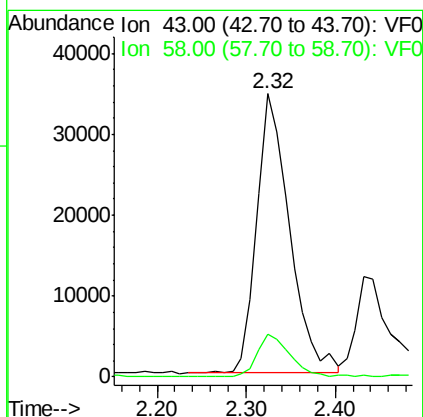
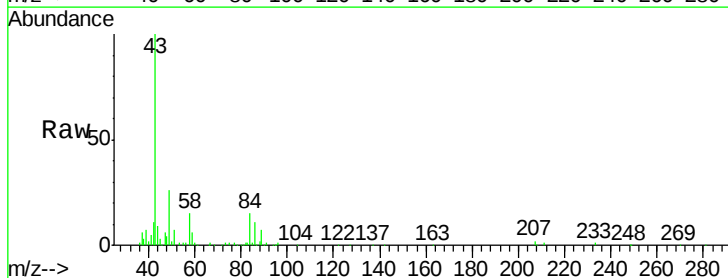
RT: 2.32 min Scan# 182

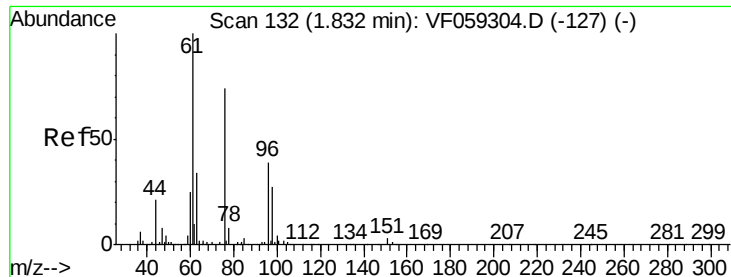
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	43	Resp:	88084
Ion	Ratio	Lower	Upper
43	100		
58	15.0	11.4	17.0





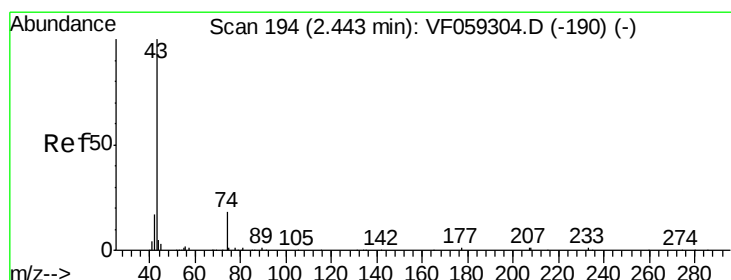
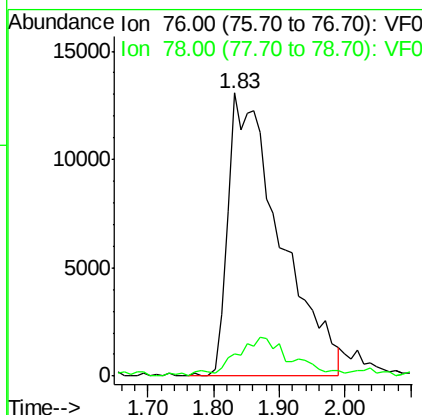
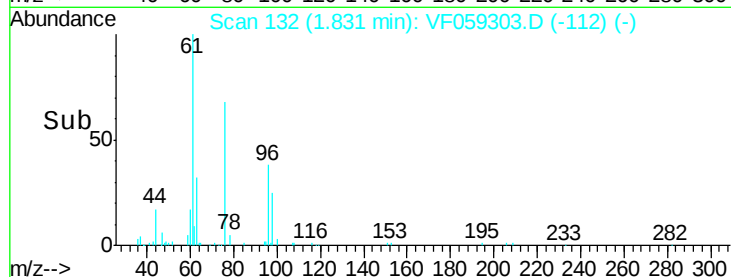
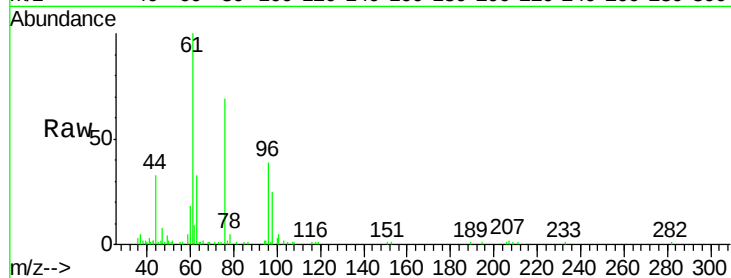
#17
Carbon Disulfide
Concen: 14.86 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	7.9	8.9	13.3#

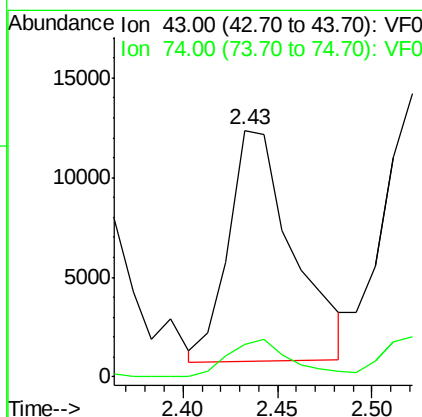
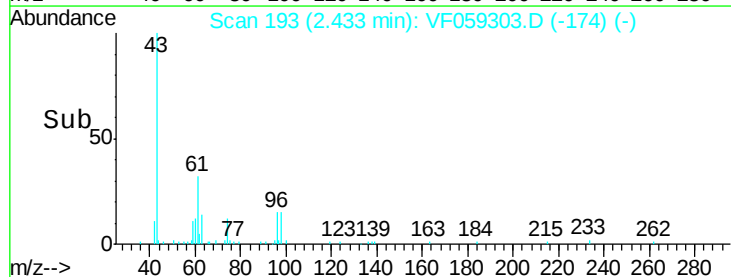
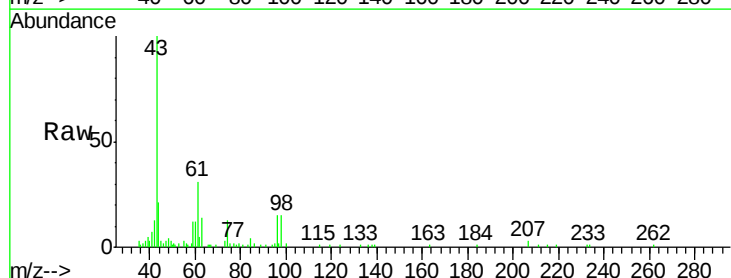
Manual Integrations
APPROVED

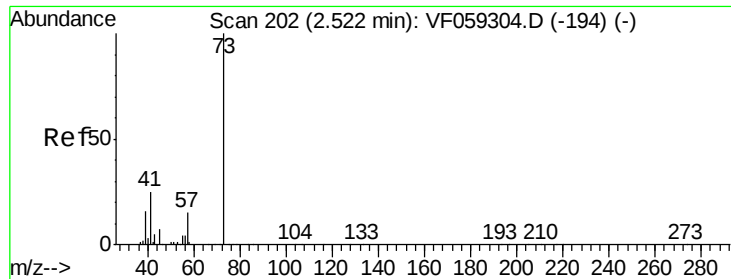
apatel
6/26/2018 10:03:14 AM



#18
Methyl Acetate
Concen: 14.66 ug/l
RT: 2.43 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
43	100		
74	13.4	13.3	19.9





#19

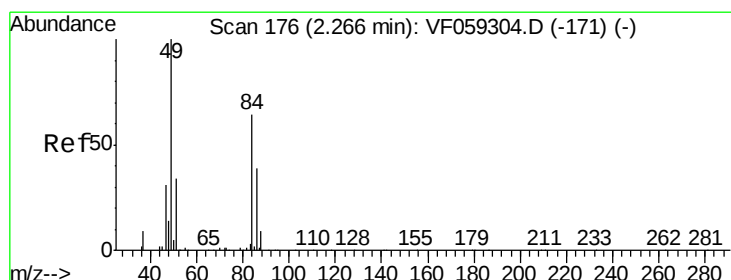
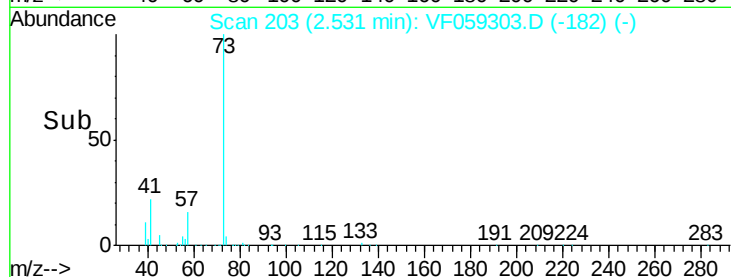
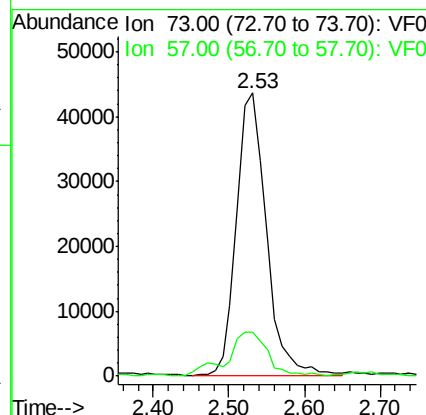
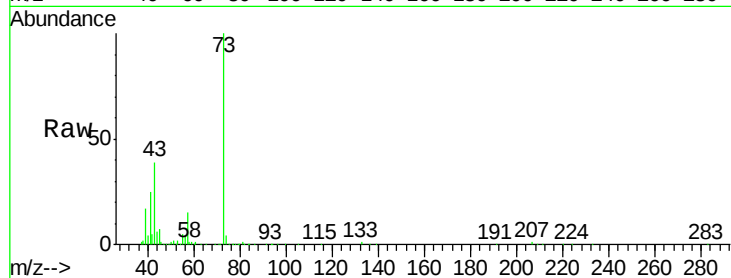
Methyl tert-butyl Ether
 Concen: 17.50 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. 0.01 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	15.5	12.3	18.5

Manual Integrations
 APPROVED

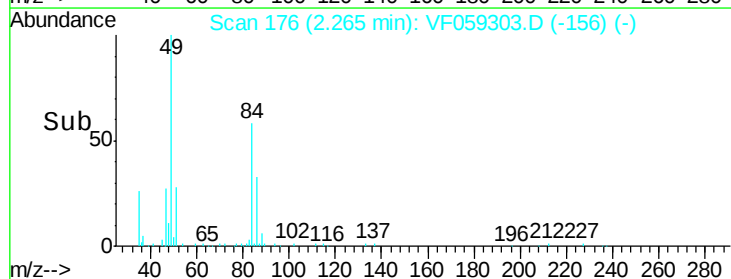
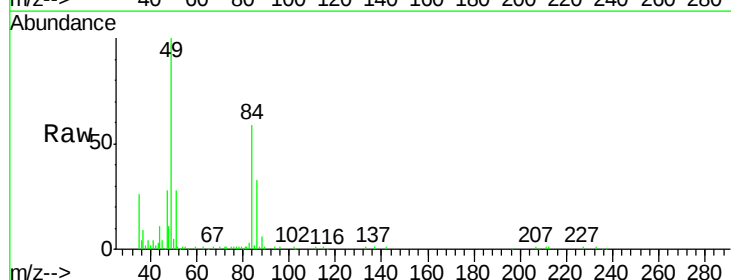
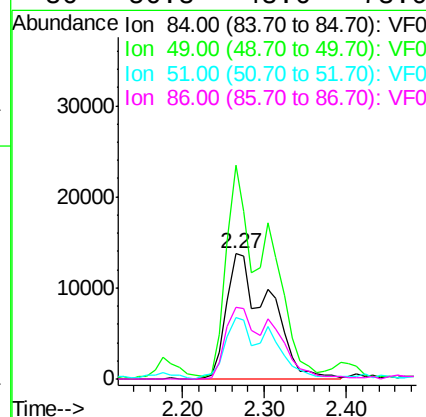
apatel
 6/26/2018 10:03:14 AM

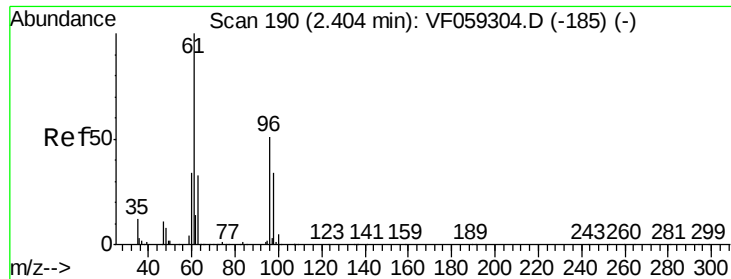


#20

Methylene Chloride
 Concen: 23.02 ug/l m
 RT: 2.27 min Scan# 176
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	170.3	126.5	189.7
51	48.5	42.9	64.3
86	56.8	48.6	73.0





#21

trans-1,2-Dichloroethene

Concen: 16.46 ug/l

RT: 2.40 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

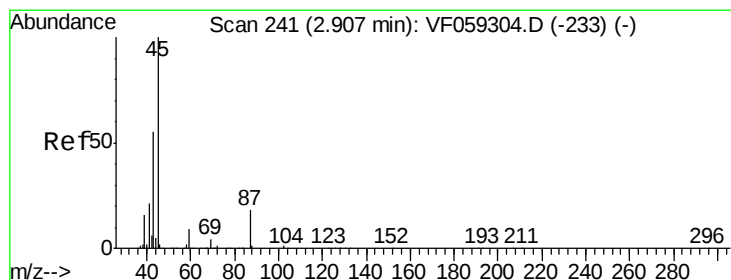
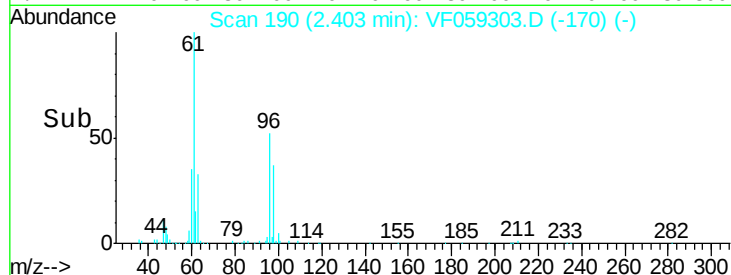
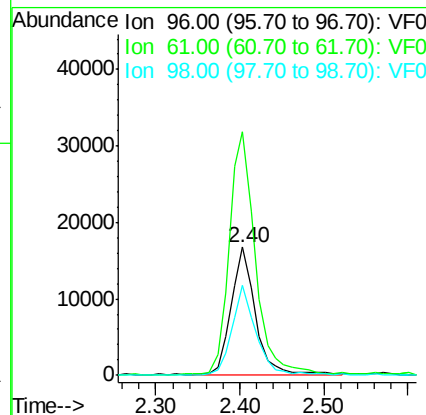
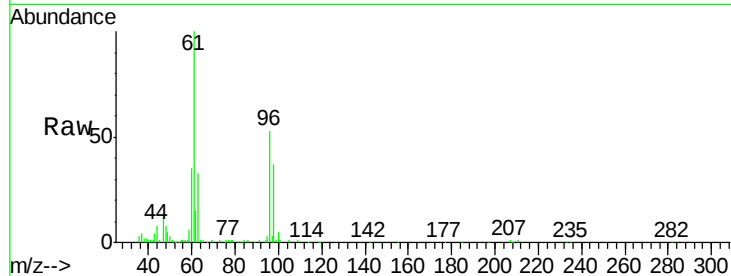
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	34116
Ion	Ratio	Lower	Upper
96	100		
61	190.3	157.4	236.2
98	70.8	53.7	80.5

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#22

Diisopropyl ether

Concen: 17.39 ug/l

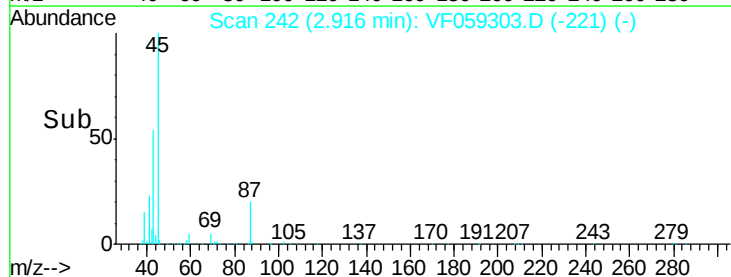
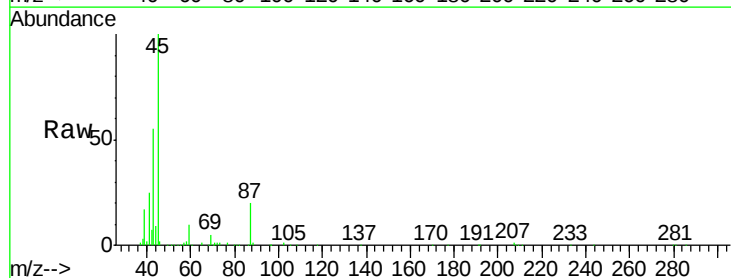
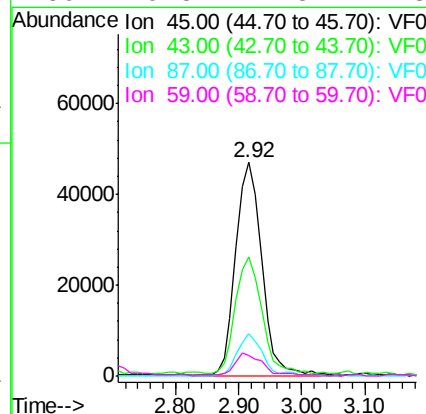
RT: 2.92 min Scan# 242

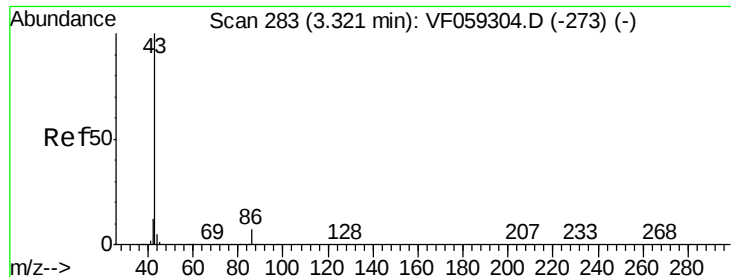
Delta R.T. 0.01 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	45	Resp:	134835
Ion	Ratio	Lower	Upper
45	100		
43	55.5	44.6	66.8
87	19.6	14.3	21.5
59	9.8	7.5	11.3





#23

Vinyl Acetate

Concen: 89.65 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 445326

Ion Ratio Lower Upper

43 100

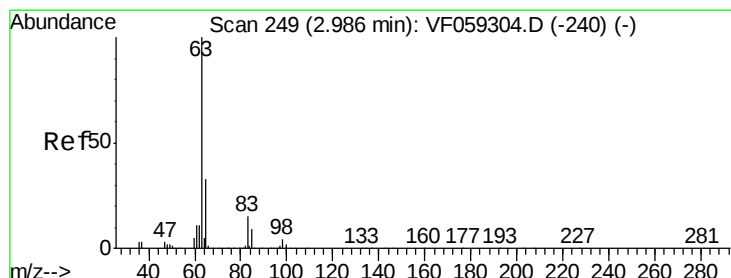
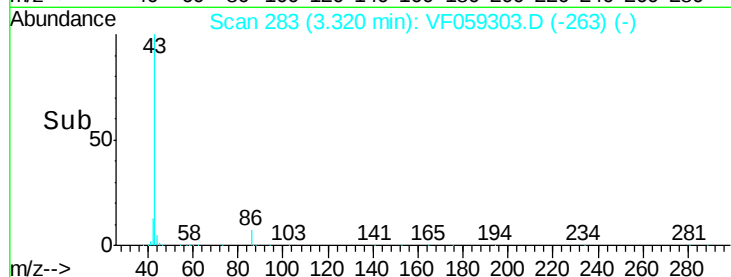
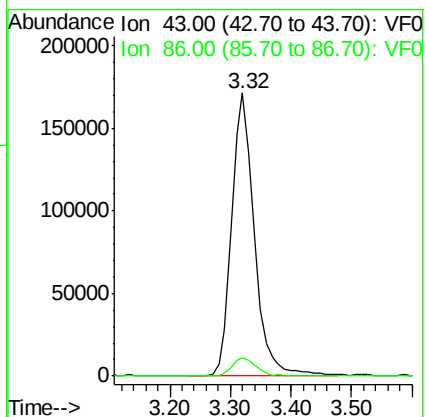
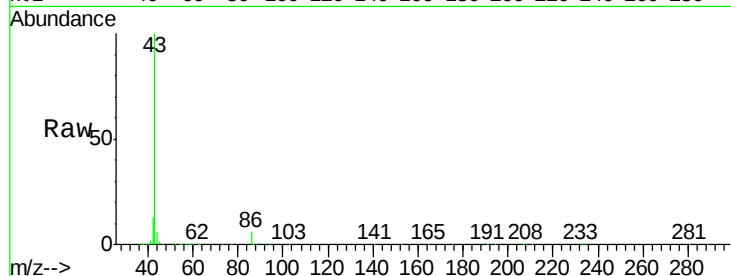
86 6.5 5.8 8.6

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#24

1,1-Dichloroethane

Concen: 16.61 ug/l

RT: 2.98 min Scan# 249

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

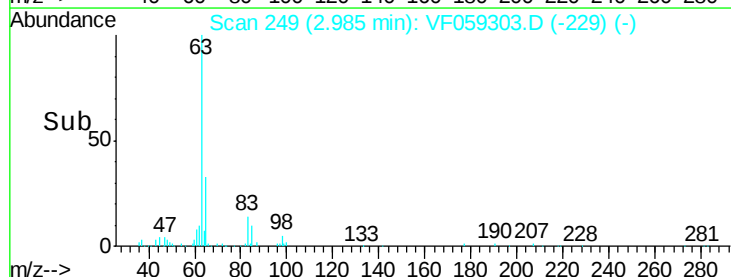
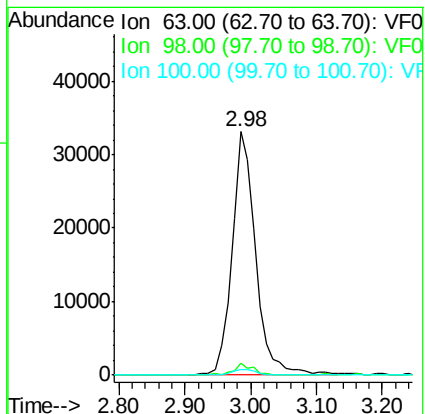
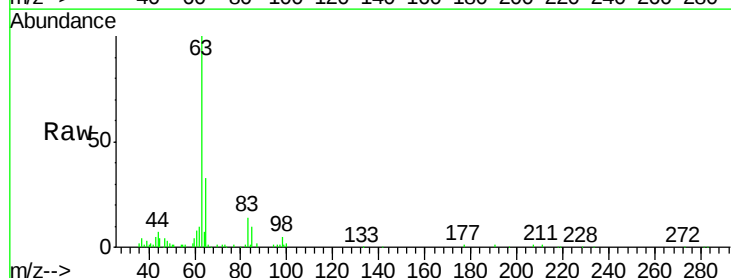
Tgt Ion: 63 Resp: 83171

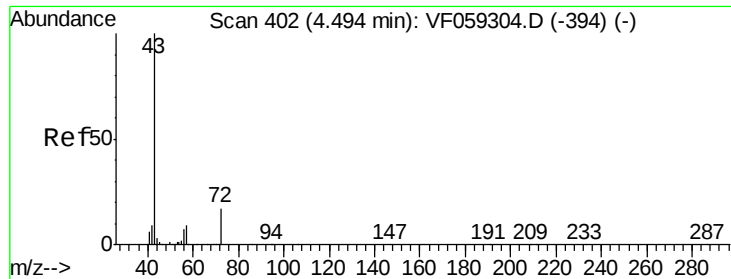
Ion Ratio Lower Upper

63 100

98 4.9 2.0 6.0

100 2.2 1.3 3.9





#25

2-Butanone

Concen: 80.91 ug/l

RT: 4.49 min Scan# 402

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 104929

Ion Ratio Lower Upper

43 100

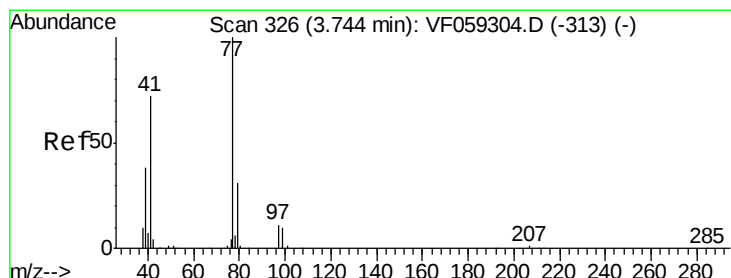
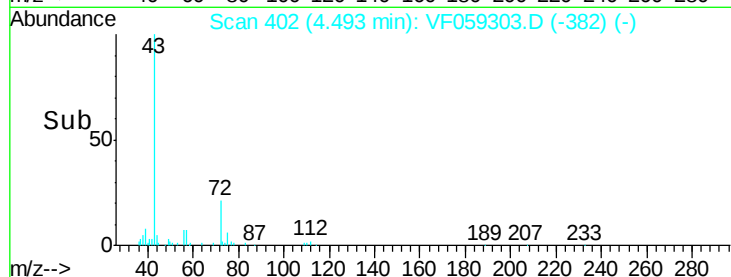
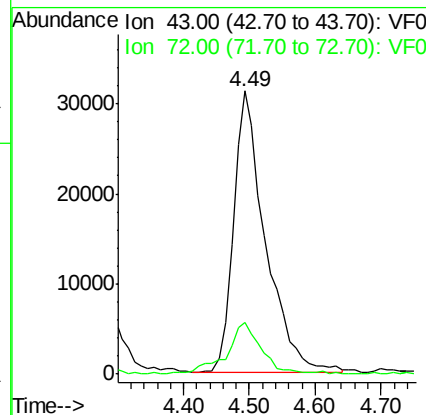
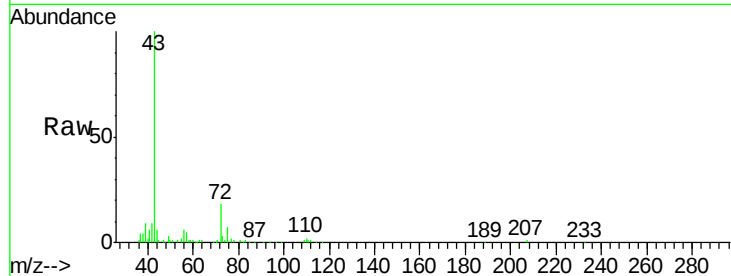
72 18.4 14.4 21.6

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#26

2,2-Dichloropropane

Concen: 17.72 ug/l

RT: 3.75 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF059303.D

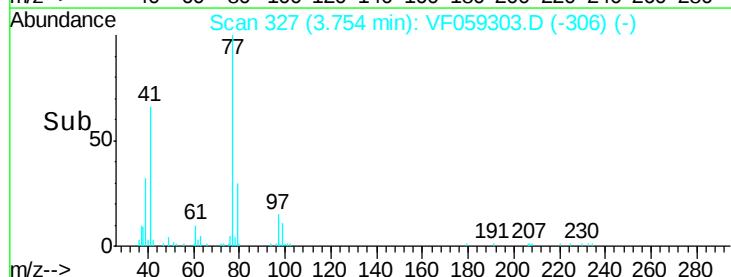
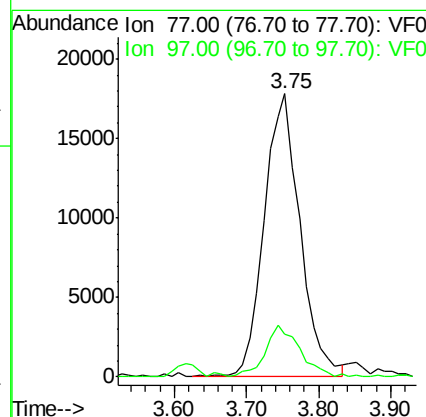
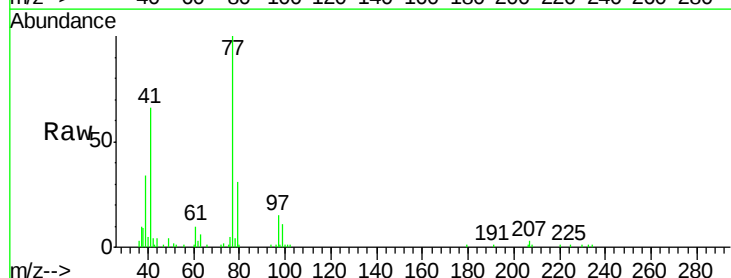
Acq: 25 Jun 2018 15:46

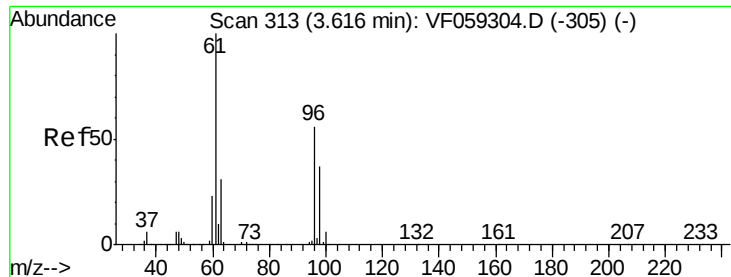
Tgt Ion: 77 Resp: 61487

Ion Ratio Lower Upper

77 100

97 15.0 8.0 23.8





#27

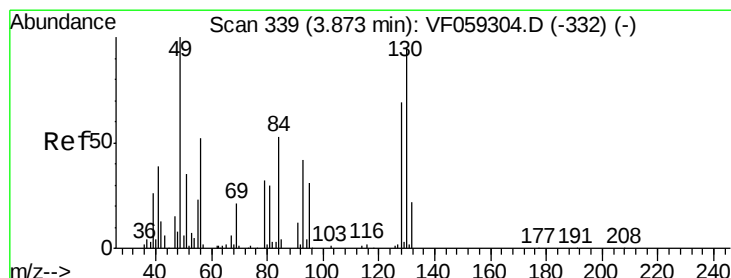
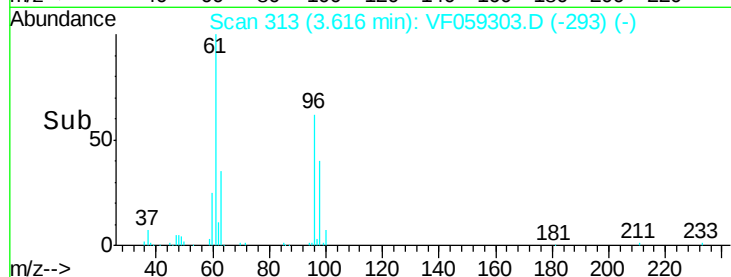
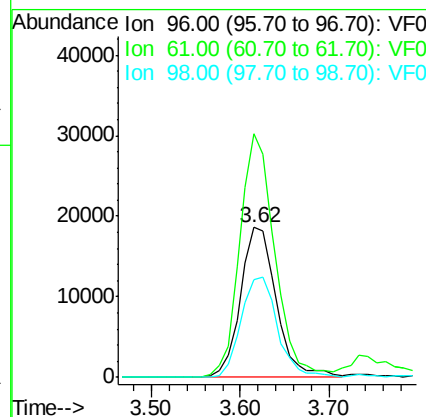
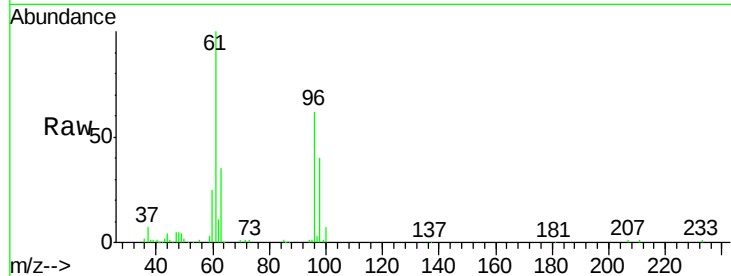
cis-1,2-Dichloroethene
Concen: 16.47 ug/l
RT: 3.62 min Scan# 313
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	162.5	0.0	355.4
98	64.8	0.0	131.0

Manual Integrations
APPROVED

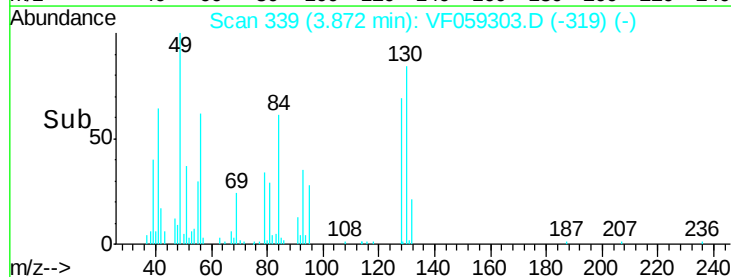
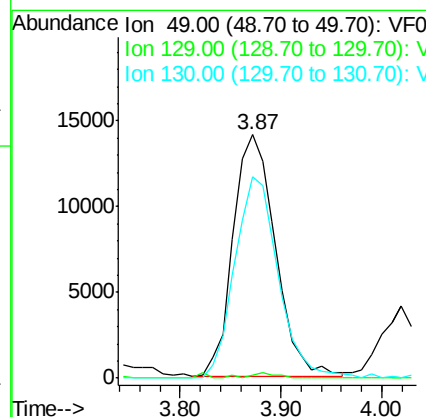
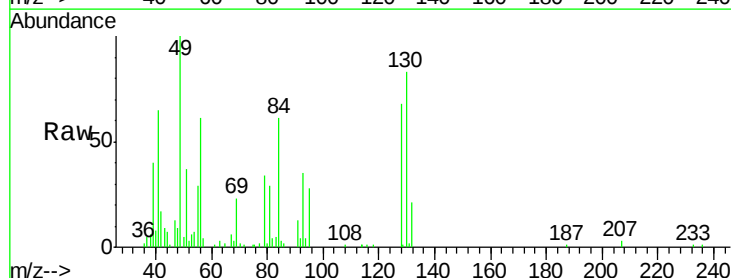
apatel
6/26/2018 10:03:14 AM

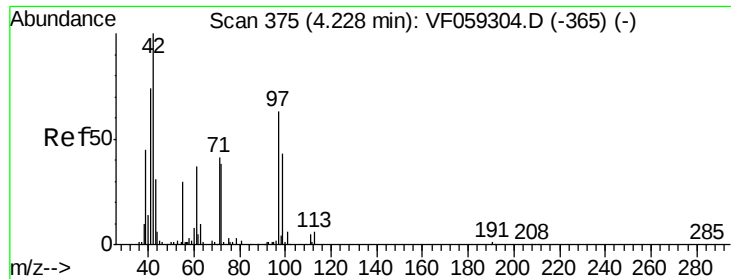


#28

Bromochloromethane
Concen: 19.53 ug/l
RT: 3.87 min Scan# 339
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	6.4
130	82.8	75.1	112.7





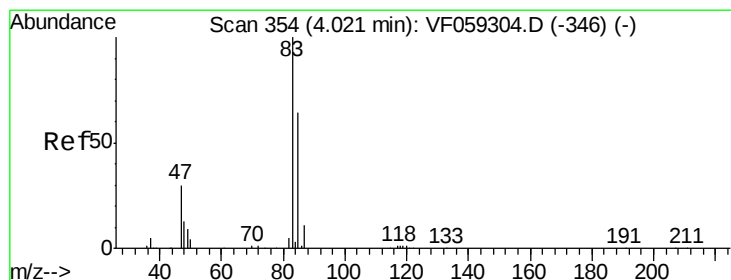
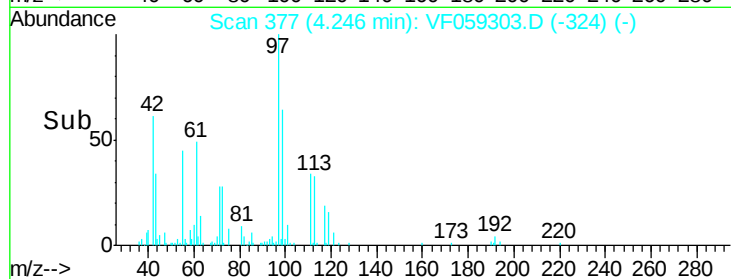
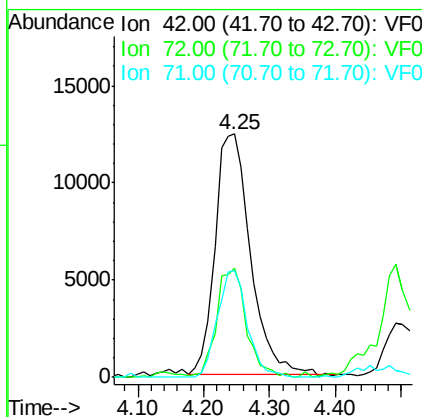
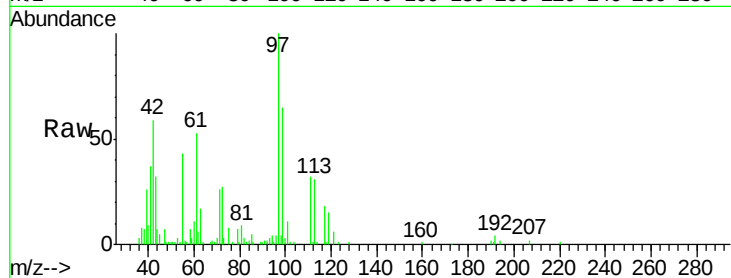
#29
Tetrahydrofuran
Concen: 79.82 ug/l
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.1	30.5	45.7
71	37.3	32.5	48.7

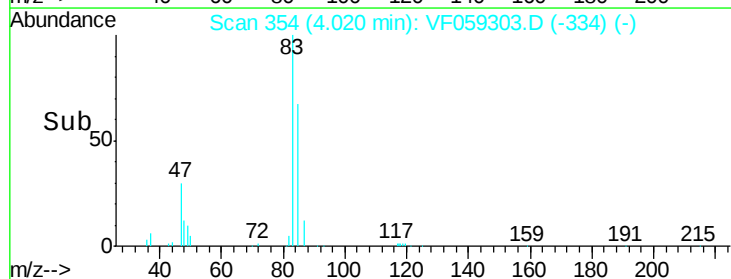
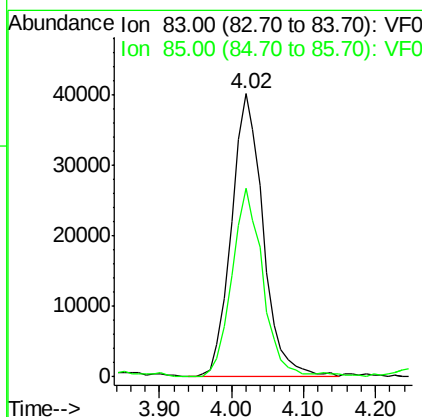
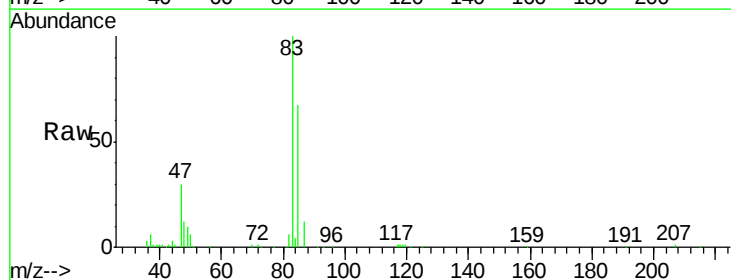
Manual Integrations
APPROVED

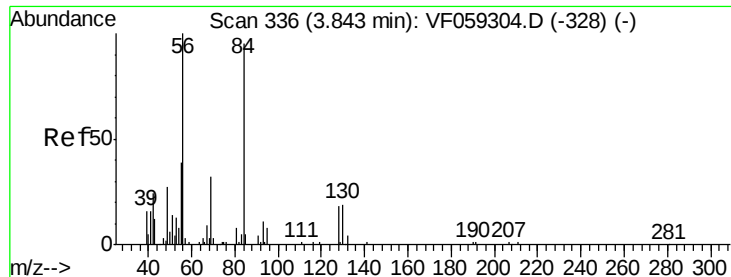
apatel
6/26/2018 10:03:14 AM



#30
Chloroform
Concen: 17.01 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.3	76.9





#31

Cyclohexane

Concen: 16.46 ug/l

RT: 3.86 min Scan# 338

Delta R.T. 0.02 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

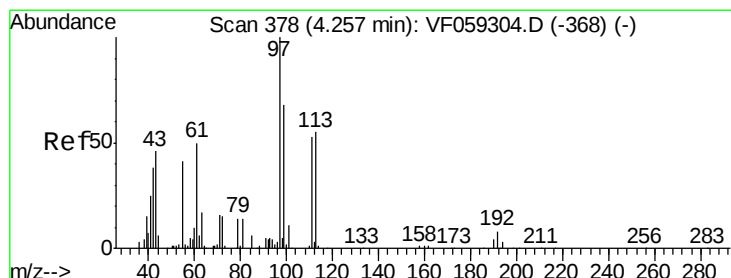
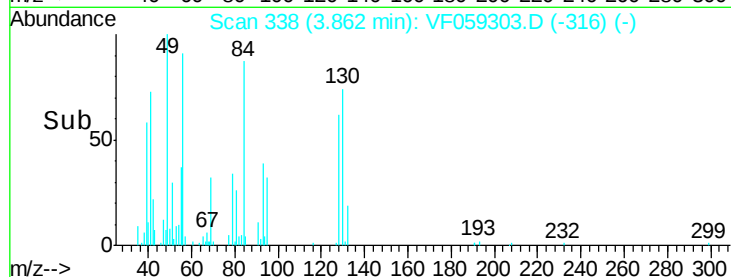
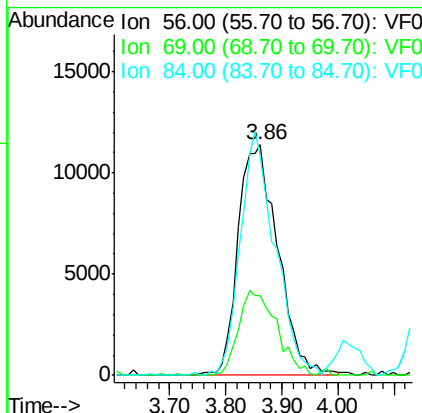
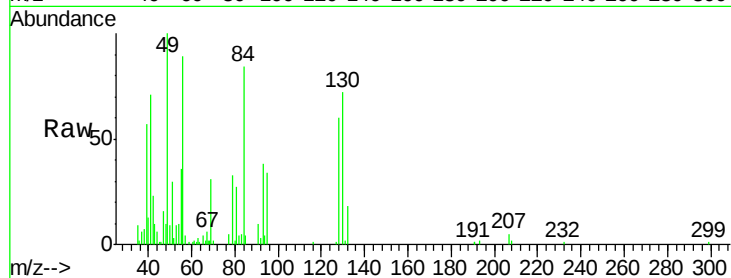
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	55850
Ion	Ratio	Lower	Upper
56	100		
69	34.7	25.8	38.8
84	95.1	75.6	113.4

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#32

1,1,1-Trichloroethane

Concen: 17.62 ug/l

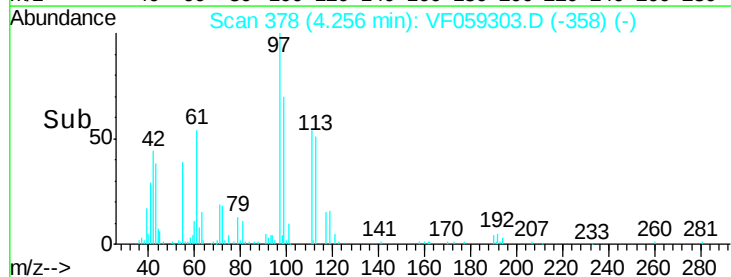
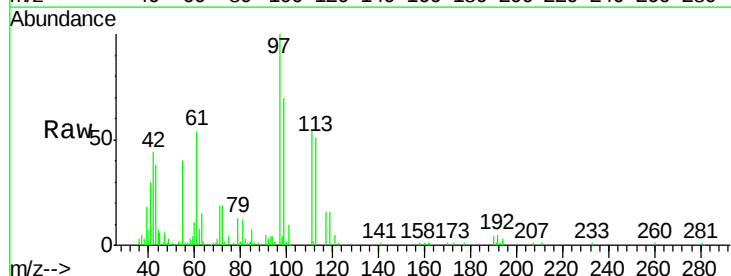
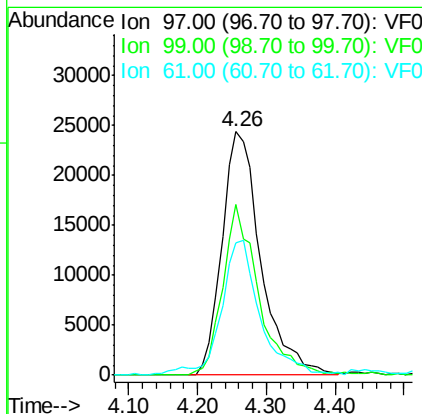
RT: 4.26 min Scan# 378

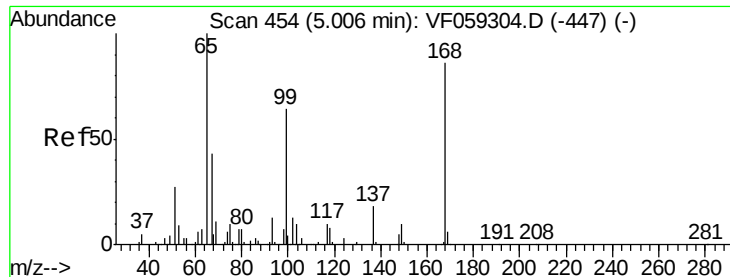
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	97	Resp:	95634
Ion	Ratio	Lower	Upper
97	100		
99	69.8	54.1	81.1
61	54.4	41.2	61.8





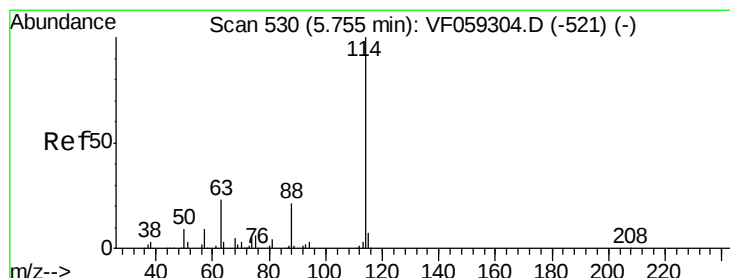
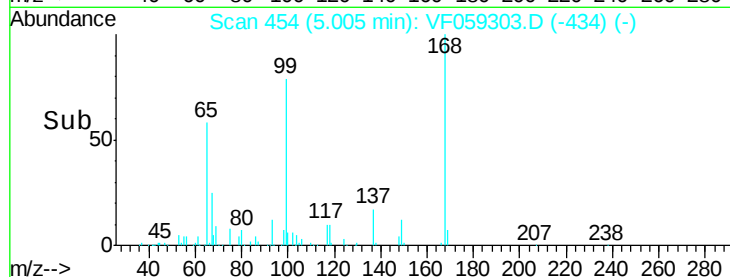
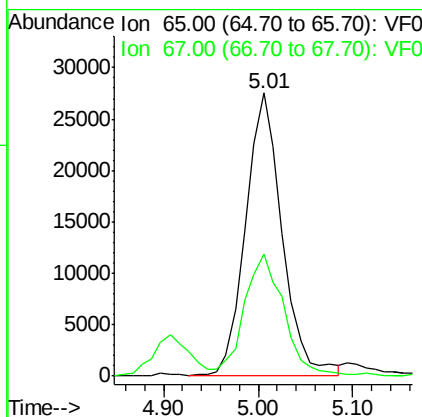
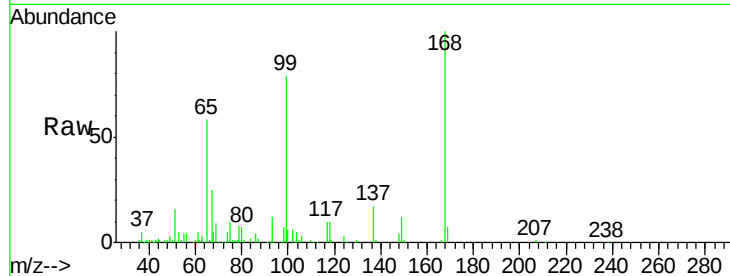
#33
 1,2-Dichloroethane-d4
 Concen: 18.17 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	43.2	0.0	96.8	

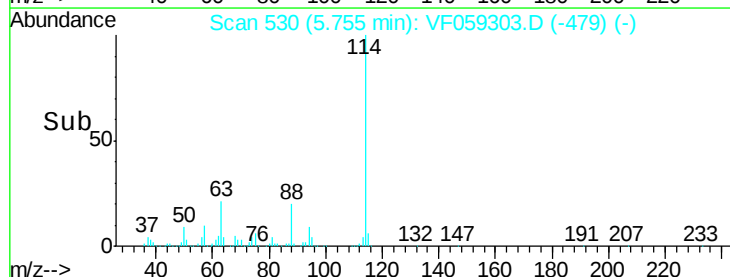
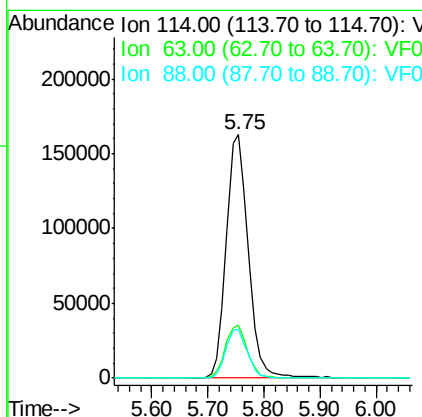
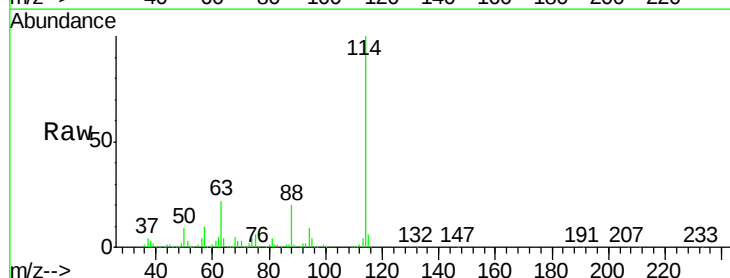
Manual Integrations
 APPROVED

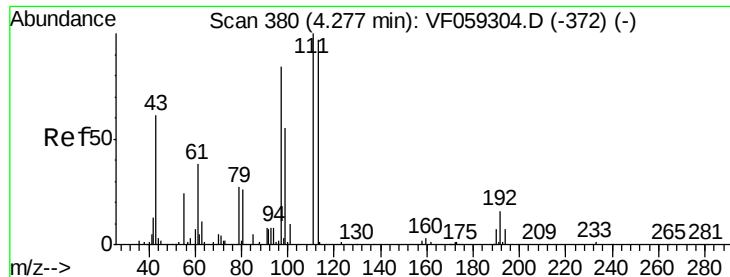
apatel
 6/26/2018 10:03:14 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.5	0.0	45.8	
88	20.3	0.0	41.2	





#35

Dibromofluoromethane

Concen: 18.84 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

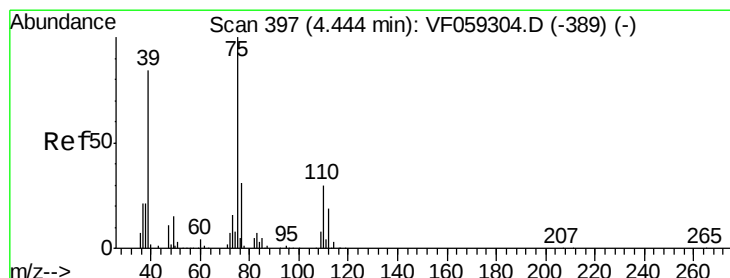
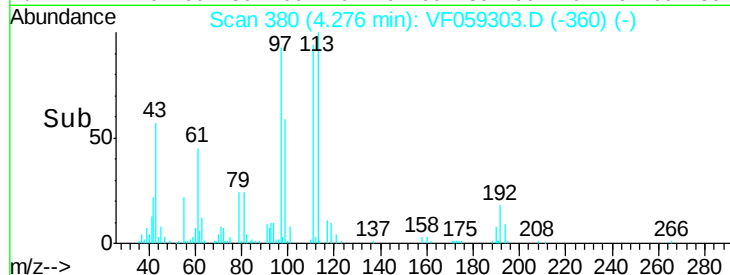
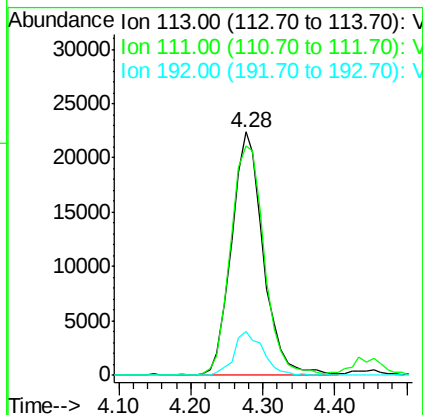
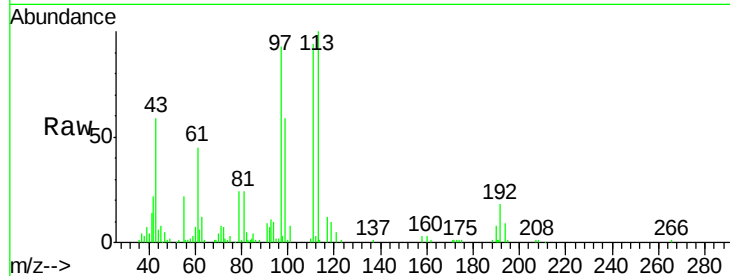
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	68689
Ion	Ratio	Lower	Upper
113	100		
111	94.0	82.1	123.1
192	17.8	13.0	19.6

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#36

1,1-Dichloropropene

Concen: 17.51 ug/l

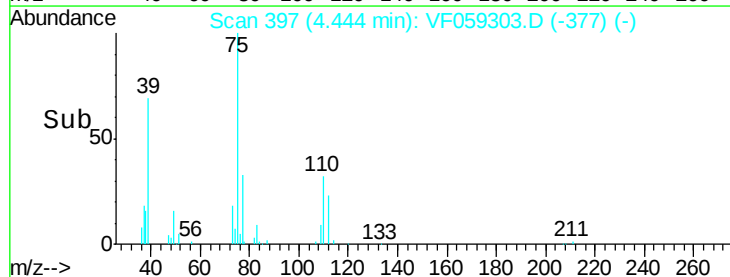
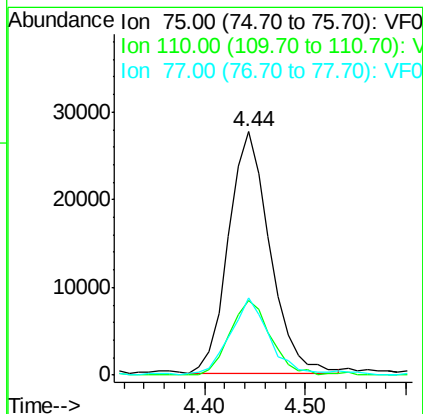
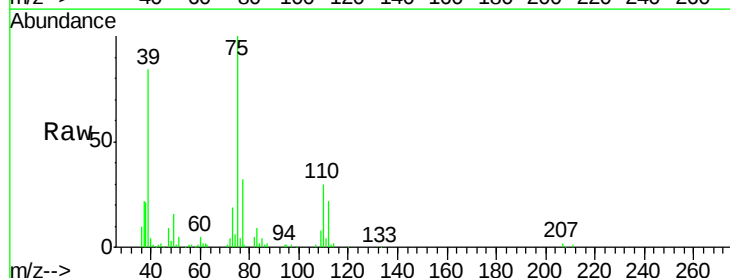
RT: 4.44 min Scan# 397

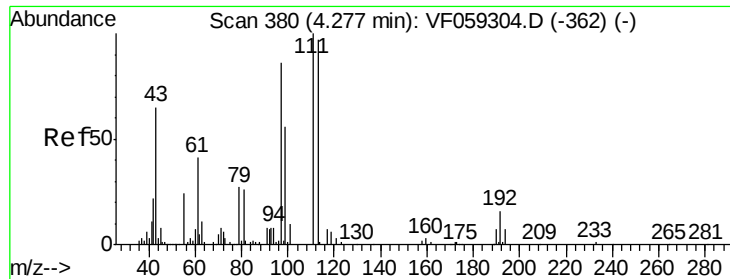
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	75	Resp:	78669
Ion	Ratio	Lower	Upper
75	100		
110	30.5	14.8	44.4
77	31.5	25.2	37.8





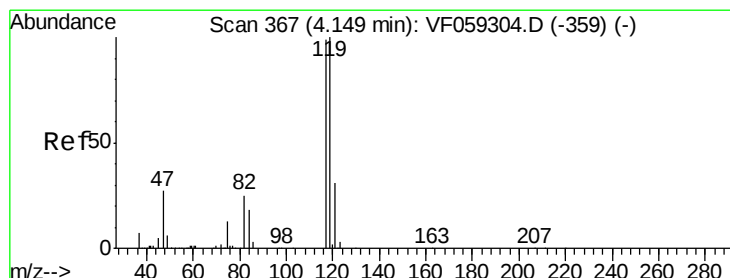
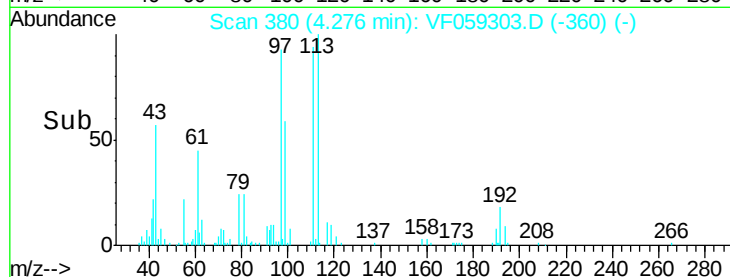
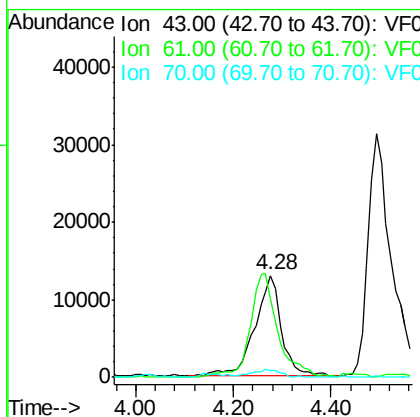
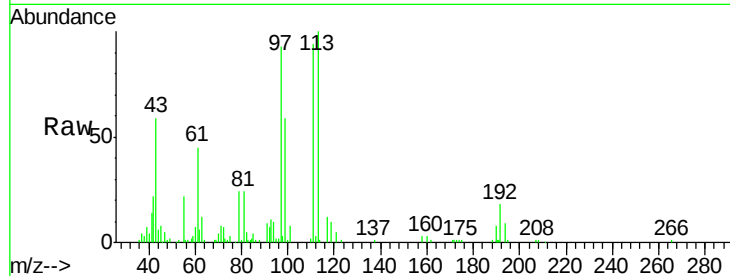
#37
Ethyl Acetate
Concen: 16.61 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	77.2	50.1	75.1#
70	7.1	6.2	9.4

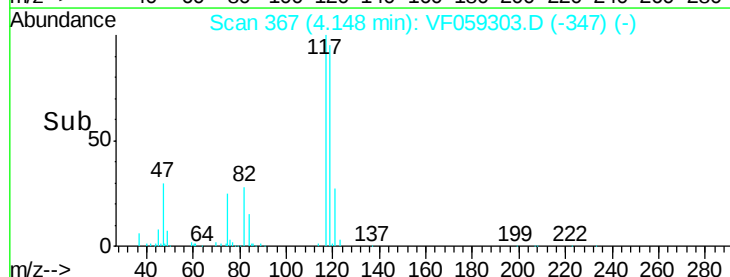
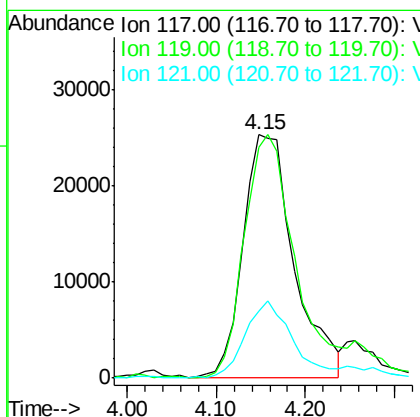
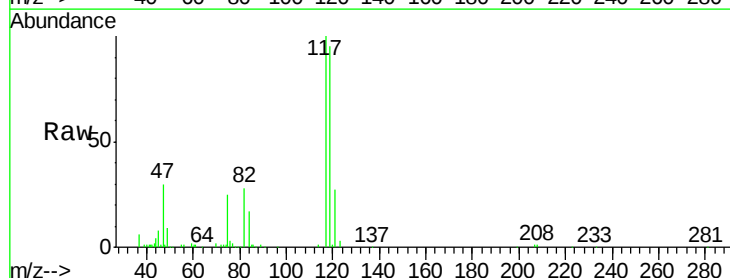
Manual Integrations
APPROVED

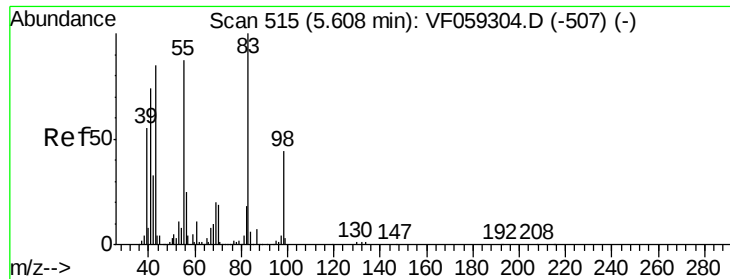
apatel
6/26/2018 10:03:14 AM



#38
Carbon Tetrachloride
Concen: 18.15 ug/l
RT: 4.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.7	81.0	121.4
121	27.5	24.7	37.1





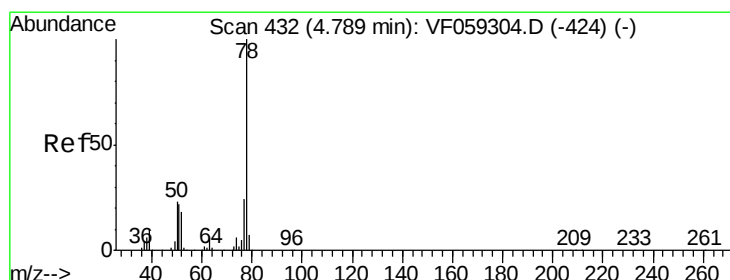
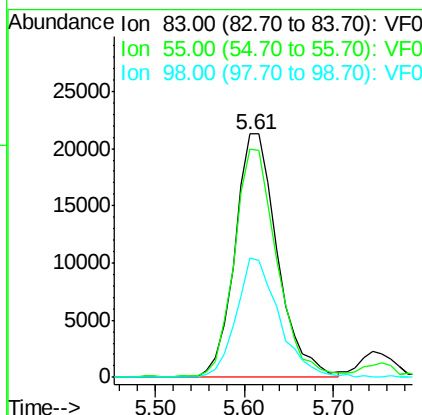
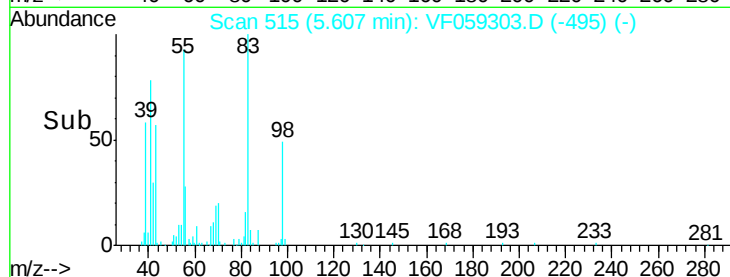
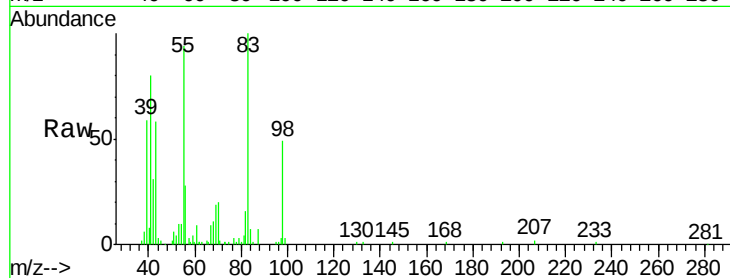
#39
Methvlcvclohexane
Concen: 17.49 ug/l
RT: 5.61 min Scan# 515
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	93.8	69.2	103.8
98	49.3	35.0	52.6

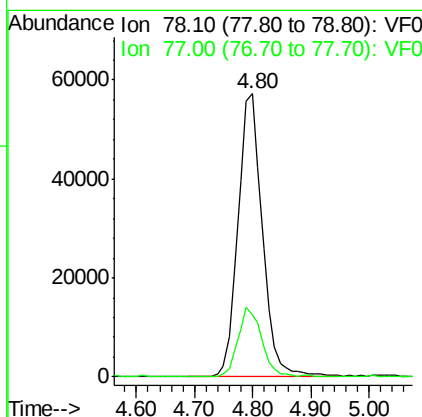
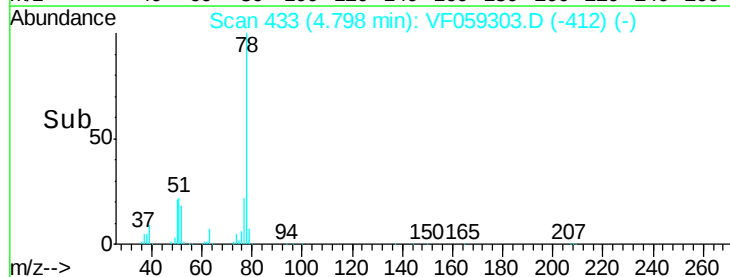
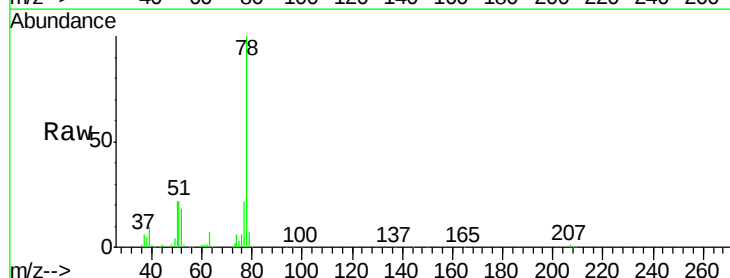
Manual Integrations
APPROVED

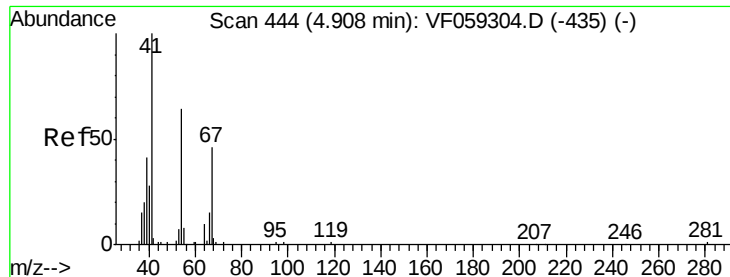
apatel
6/26/2018 10:03:14 AM



#40
Benzene
Concen: 17.46 ug/l
RT: 4.80 min Scan# 433
Delta R.T. 0.01 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.6	29.4





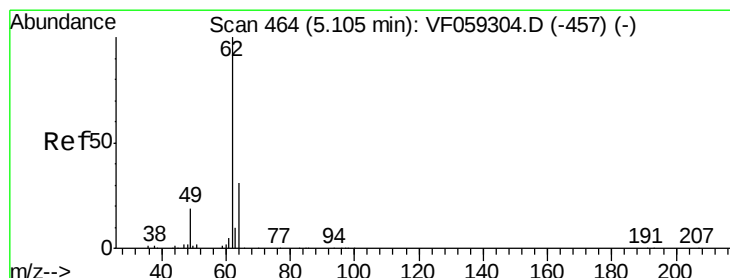
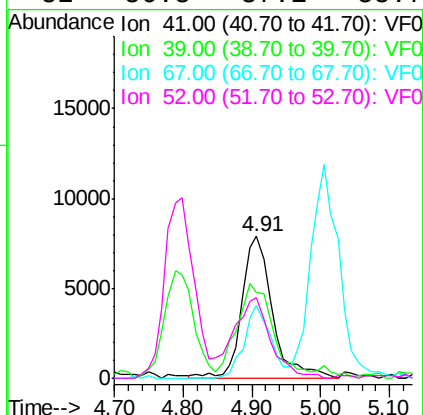
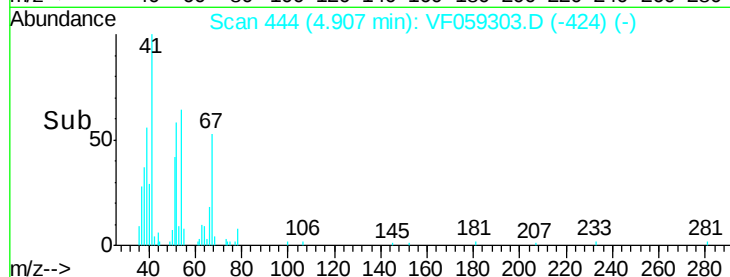
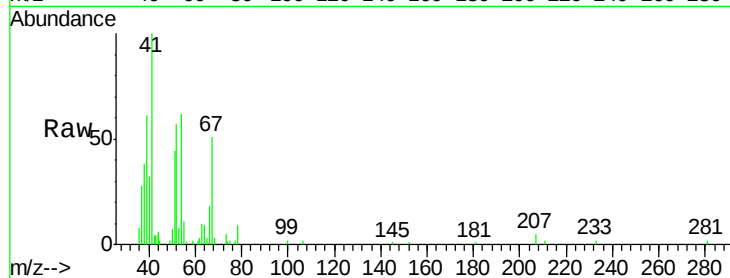
#41
Methacrylonitrile
Concen: 17.37 ug/l
RT: 4.91 min Scan# 444
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.8	50.0	75.0
67	51.1	37.0	55.6
52	56.8	37.1	55.7

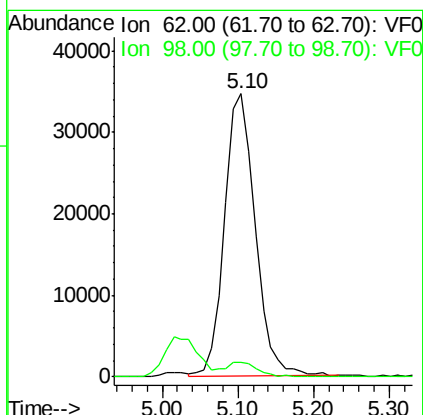
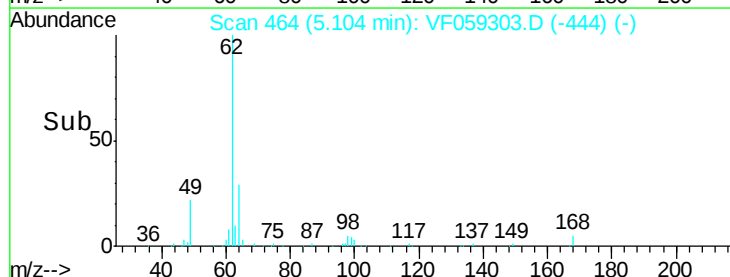
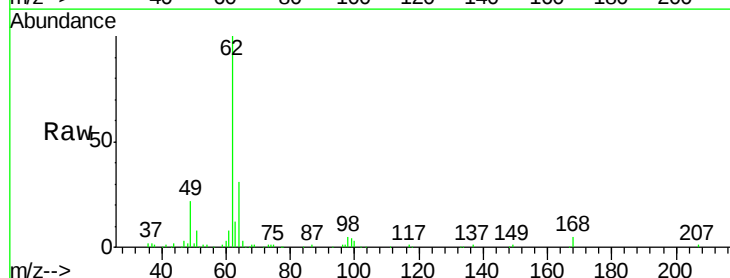
Manual Integrations
APPROVED

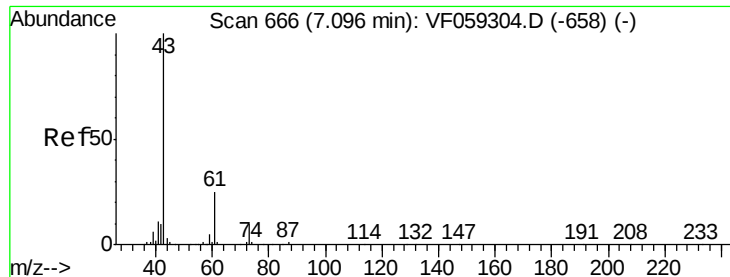
apatel
6/26/2018 10:03:14 AM



#42
1,2-Dichloroethane
Concen: 17.67 ug/l
RT: 5.10 min Scan# 464
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.3	0.0	11.4





#43

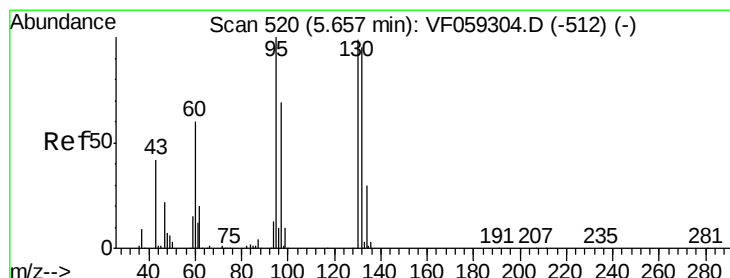
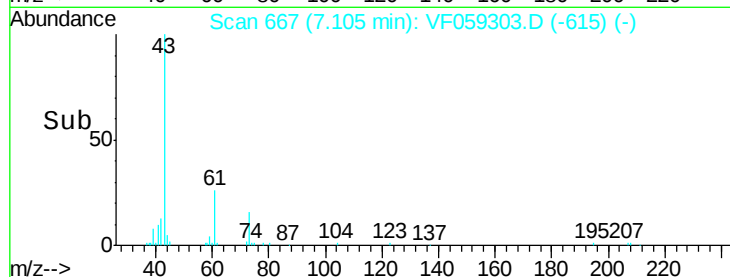
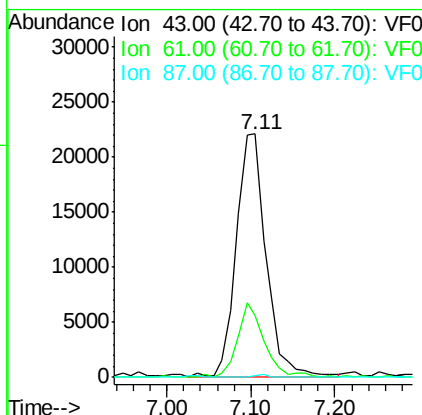
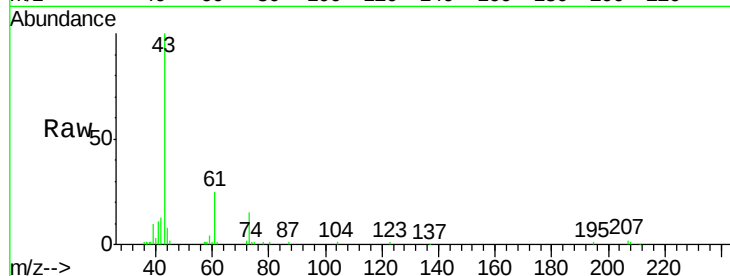
Isopropyl Acetate
 Concen: 15.49 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.2	19.7	29.5
87	0.8	0.5	0.7

Manual Integrations
 APPROVED

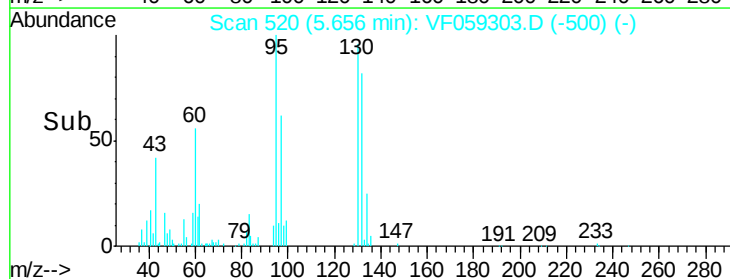
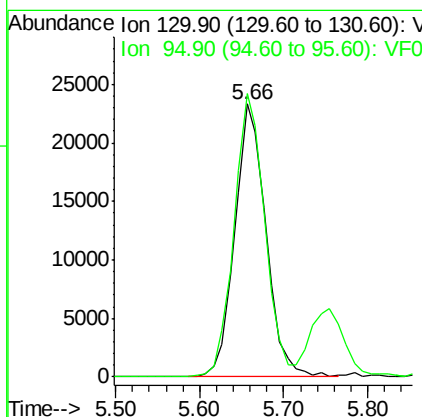
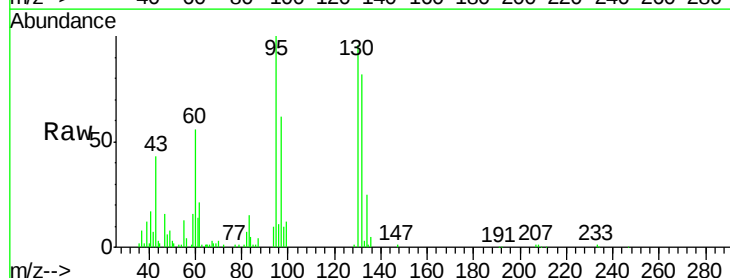
apatel
 6/26/2018 10:03:14 AM

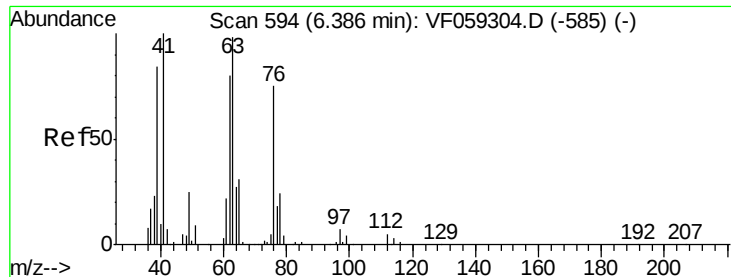


#44

Trichloroethene
 Concen: 18.17 ug/l
 RT: 5.66 min Scan# 520
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	202.4





#45

1,2-Dichloropropane

Concen: 17.52 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.01 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 48827

Ion Ratio Lower Upper

63 100

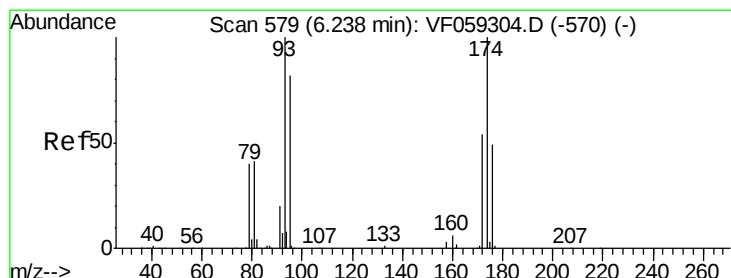
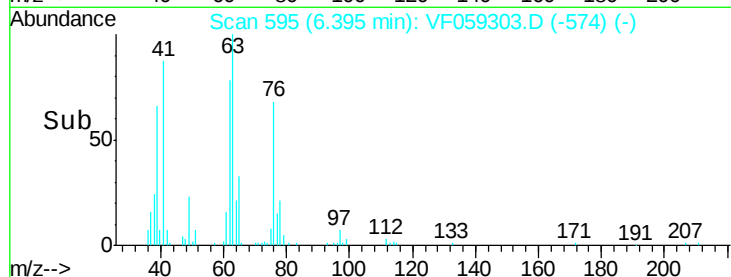
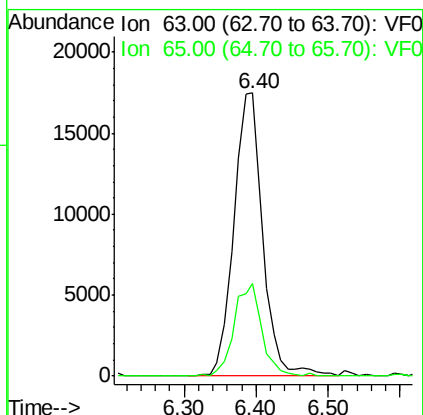
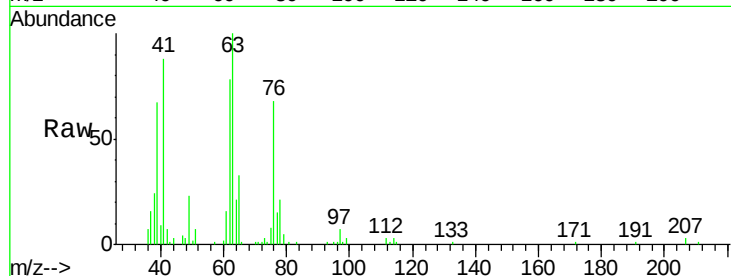
65 32.6 25.3 37.9

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#46

Dibromomethane

Concen: 16.72 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

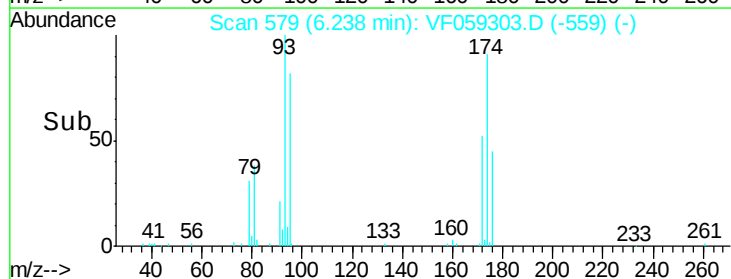
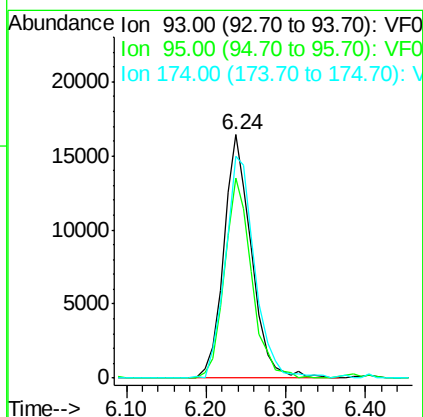
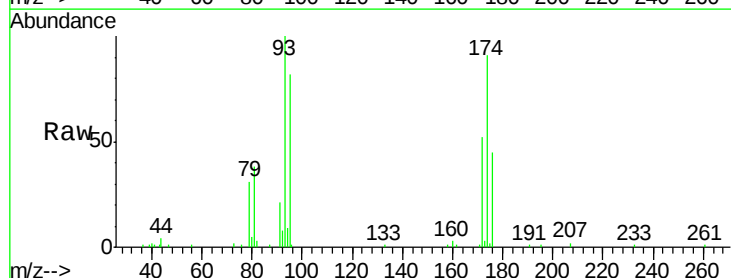
Tgt Ion: 93 Resp: 39974

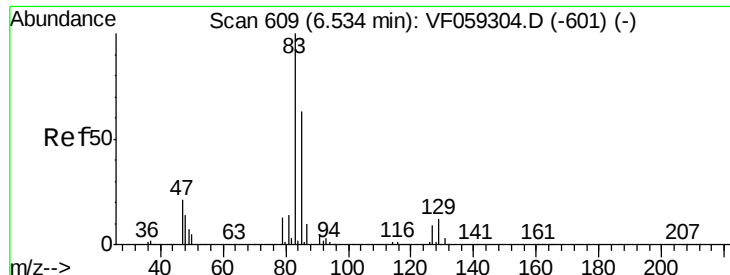
Ion Ratio Lower Upper

93 100

95 83.1 65.6 98.4

174 91.1 80.0 120.0





#47

Bromodichloromethane

Concen: 17.40 ug/l

RT: 6.53 min Scan# 609

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

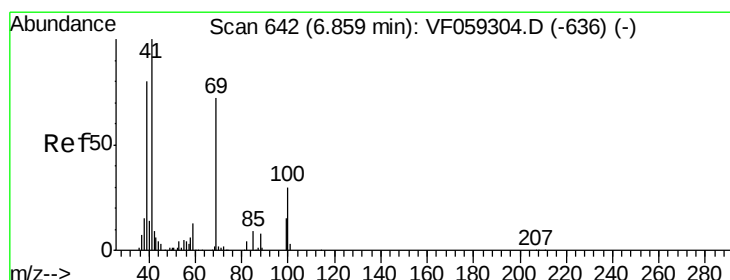
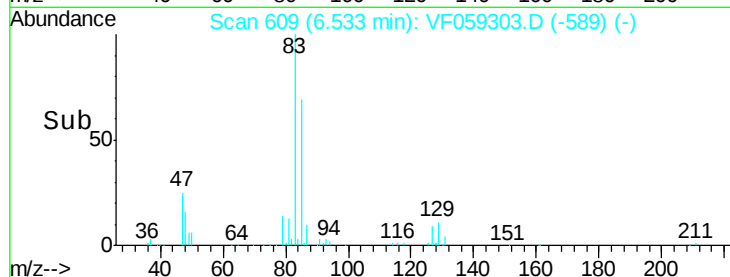
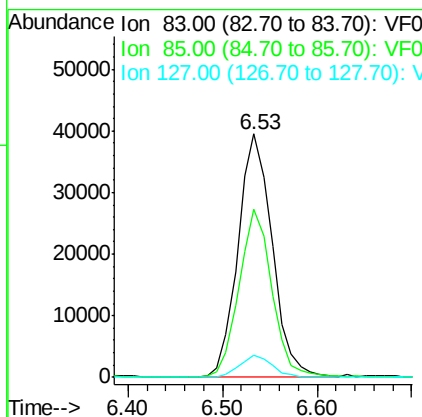
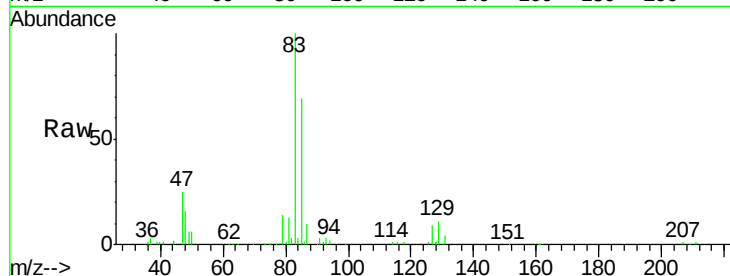
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	99194
Ion	Ratio	Lower	Upper
83	100		
85	69.2	50.2	75.2
127	9.2	7.0	10.4

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#48

Methyl methacrylate

Concen: 16.44 ug/l

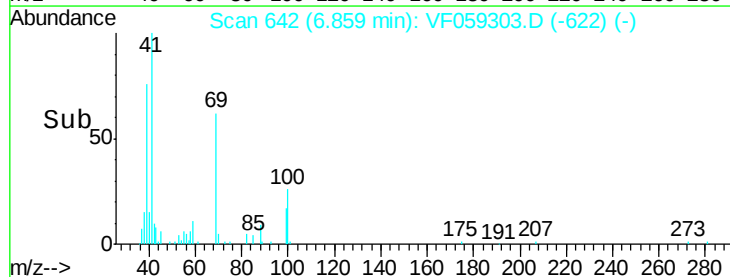
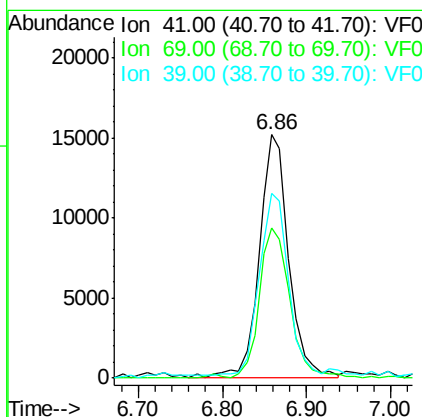
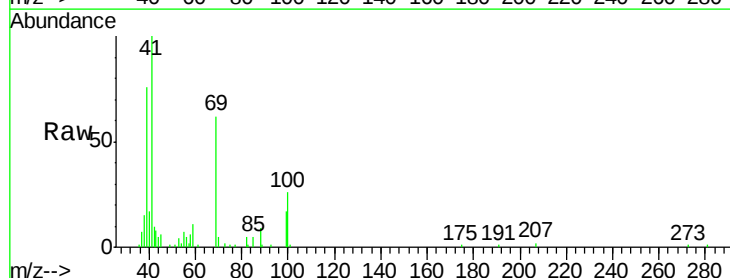
RT: 6.86 min Scan# 642

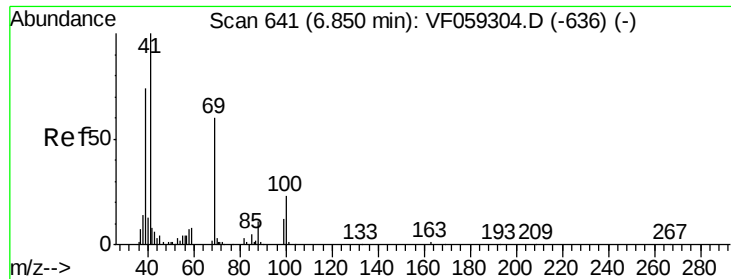
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	41	Resp:	37419
Ion	Ratio	Lower	Upper
41	100		
69	61.9	57.3	85.9
39	76.1	64.4	96.6





#49

1,4-Dioxane

Concen: 317.91 ug/l

RT: 6.85 min Scan# 641

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

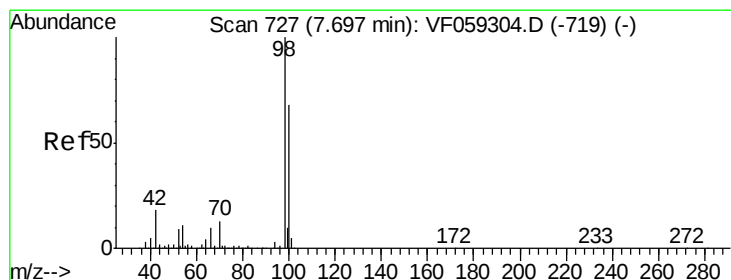
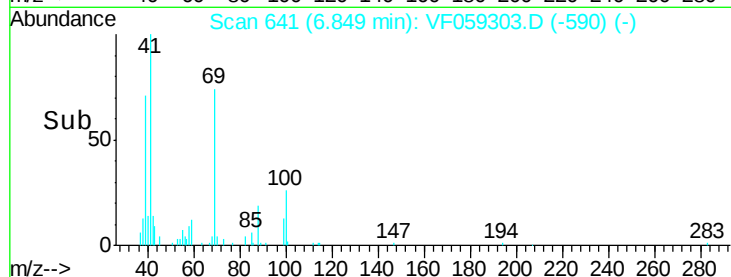
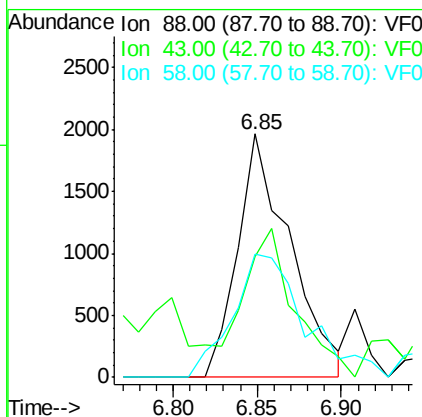
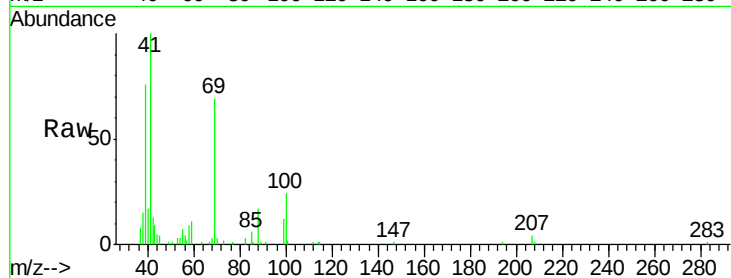
ClientSampleId :

VSTDIC020

Tot Ion:	88	Resp:	4239
Ion	Ratio	Lower	Upper
88	100		
43	49.4	50.6	75.8#
58	50.6	46.6	69.8

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#50

Toluene-d8

Concen: 17.76 ug/l

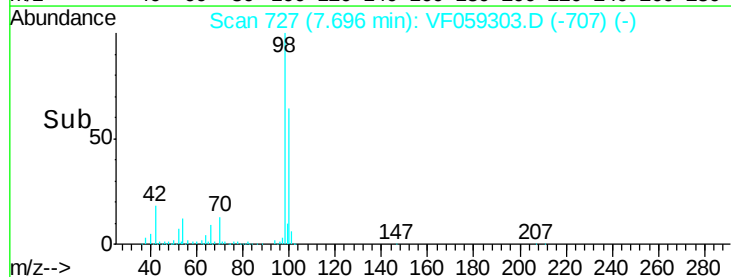
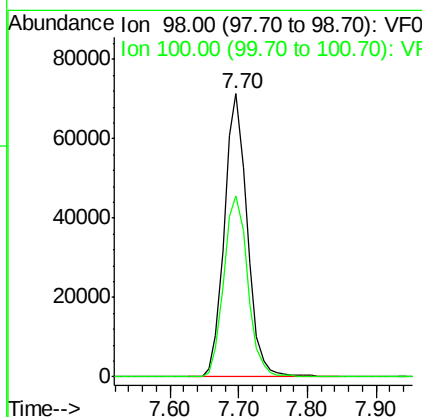
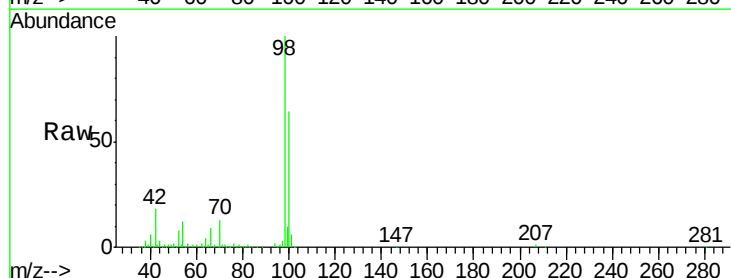
RT: 7.70 min Scan# 727

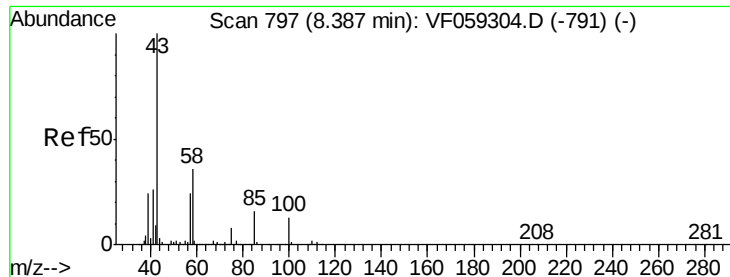
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	98	Resp:	163947
Ion	Ratio	Lower	Upper
98	100		
100	64.0	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 83.06 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 213188

Ion Ratio Lower Upper

43 100

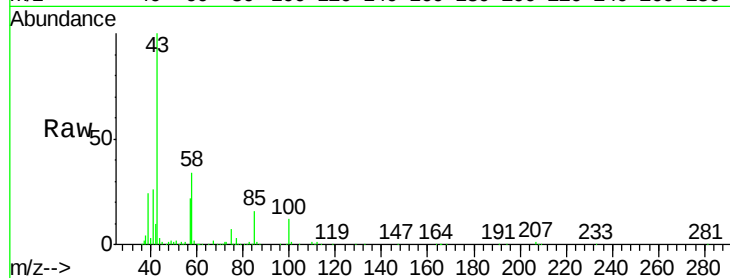
58 34.0 28.4 42.6

Manual Integrations

APPROVED

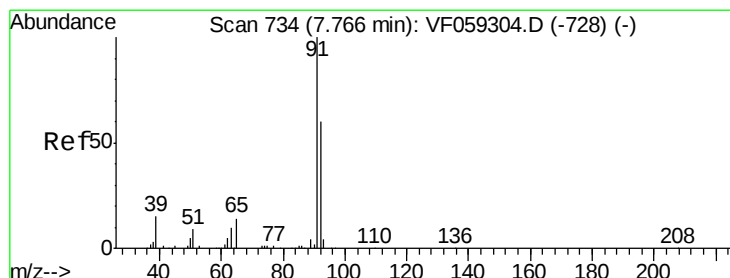
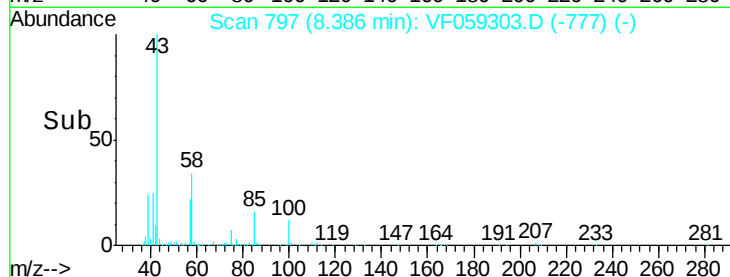
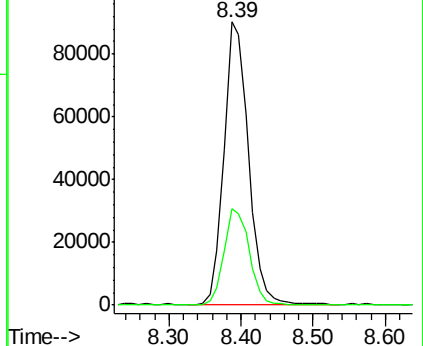
apatel

6/26/2018 10:03:14 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 16.70 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059303.D

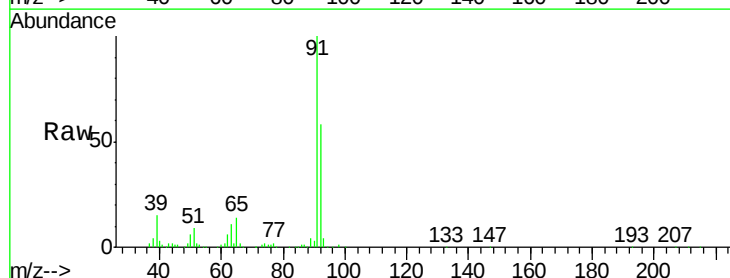
Acq: 25 Jun 2018 15:46

Tgt Ion: 92 Resp: 124126

Ion Ratio Lower Upper

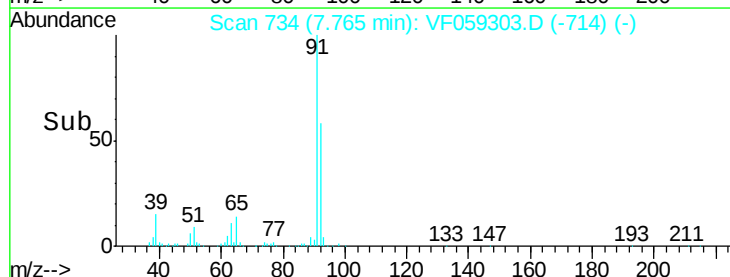
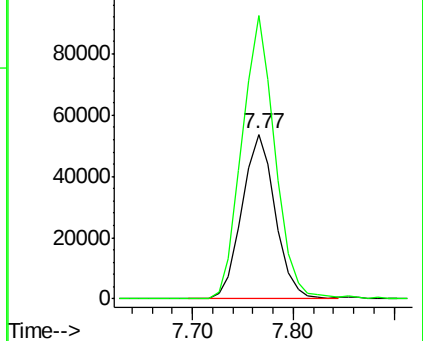
92 100

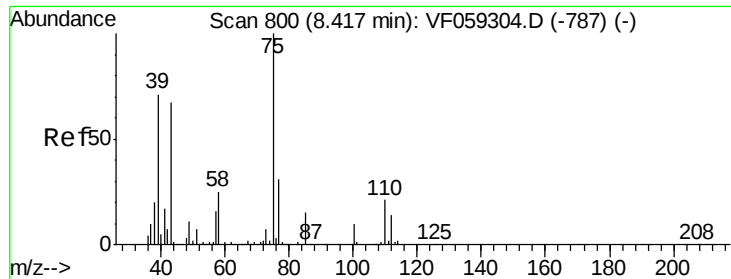
91 171.6 132.8 199.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 17.29 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tot Ion: 75 Resp: 92085

Ion Ratio Lower Upper

75 100

77 31.3 25.3 37.9

Instrument :

MSVOA_F

ClientSampleId :

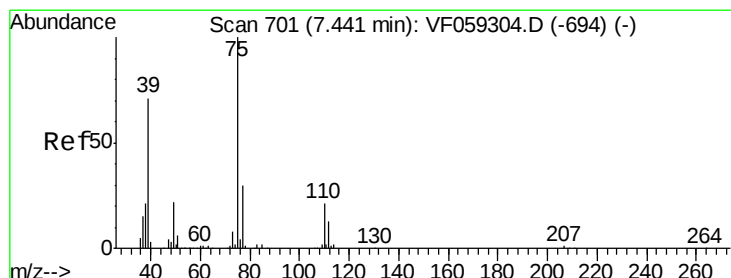
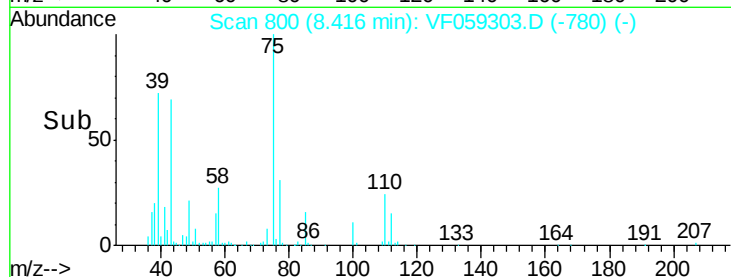
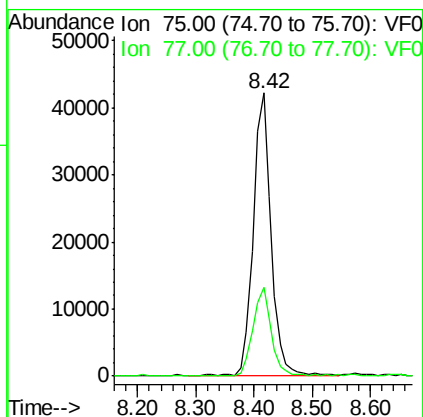
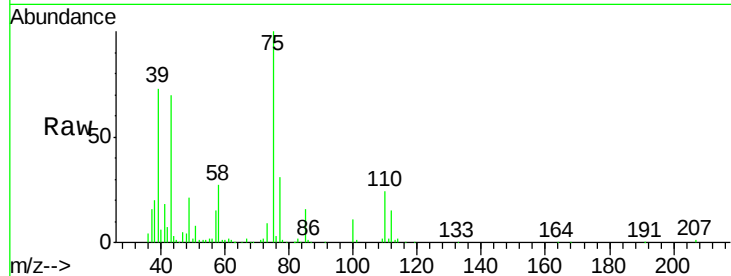
VSTDIC020

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#54

cis-1,3-Dichloropropene

Concen: 17.35 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

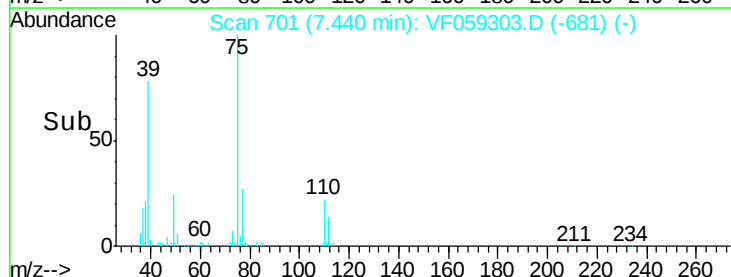
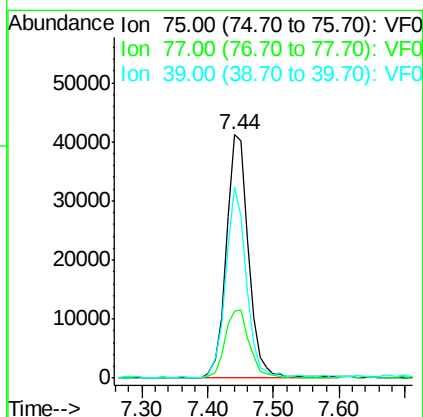
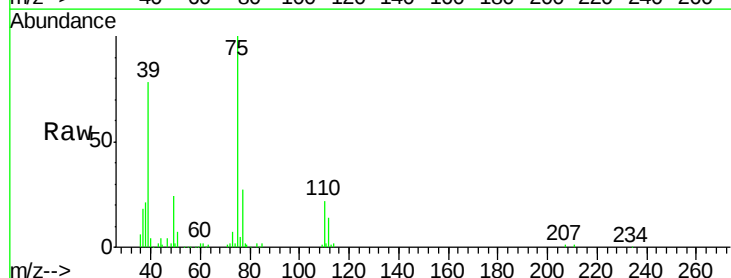
Tgt Ion: 75 Resp: 98260

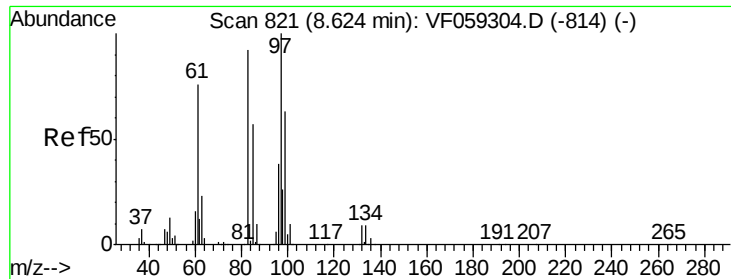
Ion Ratio Lower Upper

75 100

77 27.4 24.3 36.5

39 78.3 57.2 85.8





#55

1,1,2-Trichloroethane

Concen: 16.54 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

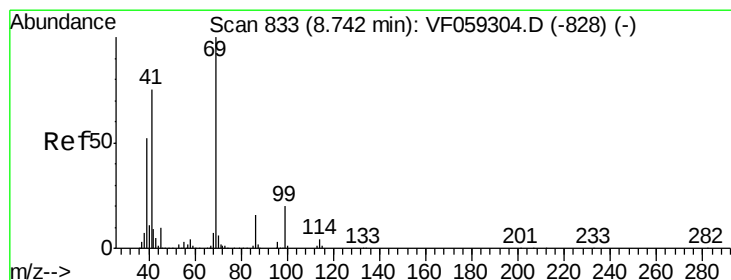
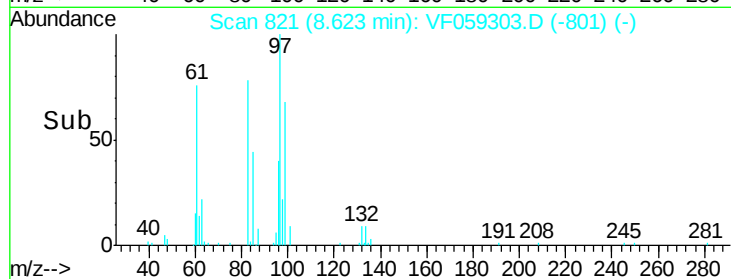
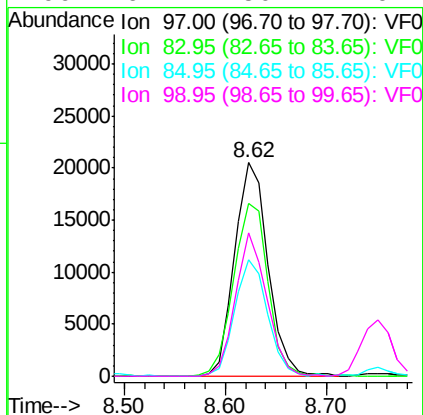
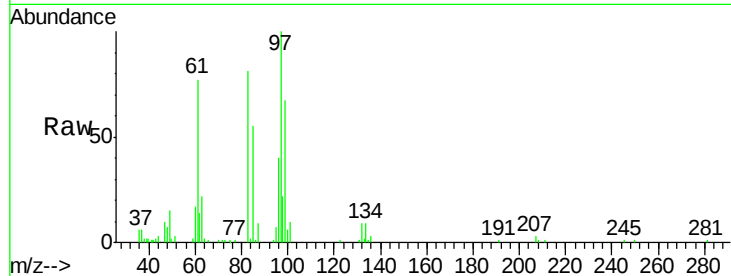
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	47505
Ion	Ratio	Lower	Upper
97	100		
83	80.6	73.8	110.8
85	54.7	45.5	68.3
99	67.2	50.7	76.1

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#56

Ethyl methacrylate

Concen: 16.23 ug/l

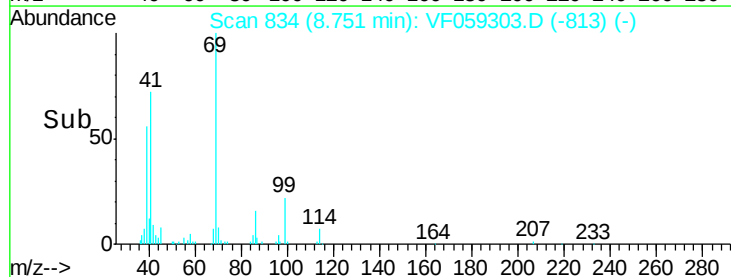
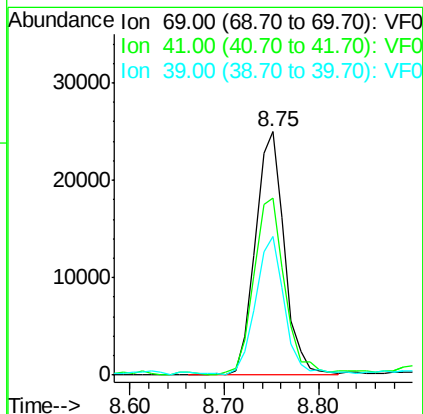
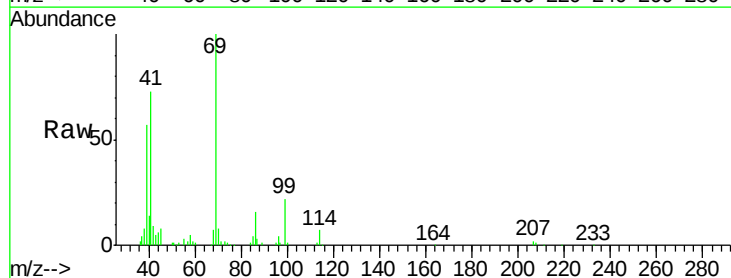
RT: 8.75 min Scan# 834

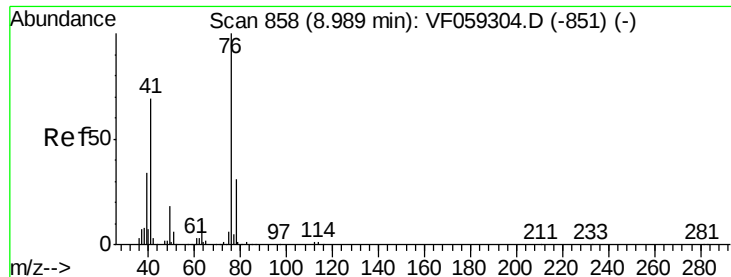
Delta R.T. 0.01 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	69	Resp:	53574
Ion	Ratio	Lower	Upper
69	100		
41	72.7	60.3	90.5
39	57.1	42.2	63.4





#57

1,3-Dichloropropane

Concen: 16.69 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 79317

Ion Ratio Lower Upper

76 100

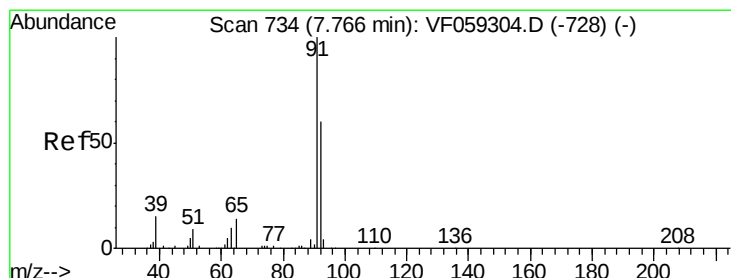
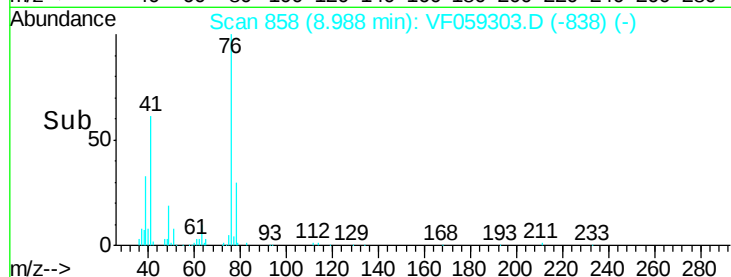
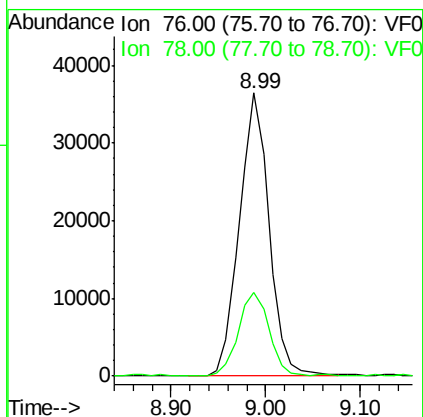
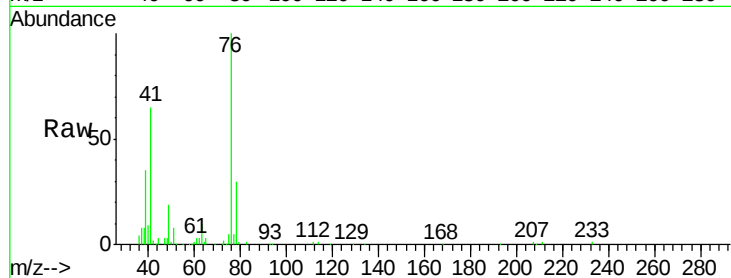
78 29.7 24.9 37.3

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#58

2-Chloroethyl Vinyl ether

Concen: 90.39 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF059303.D

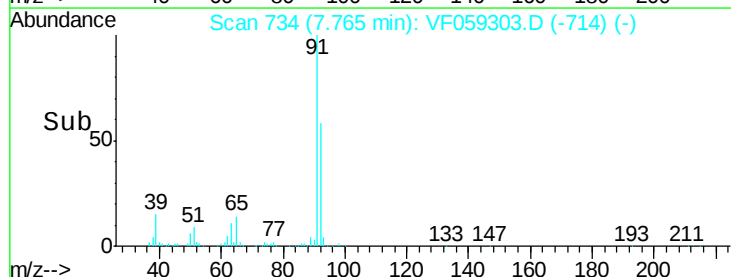
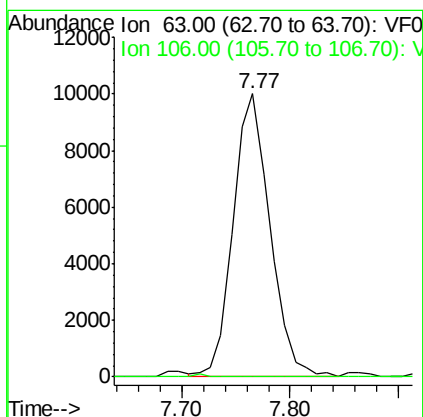
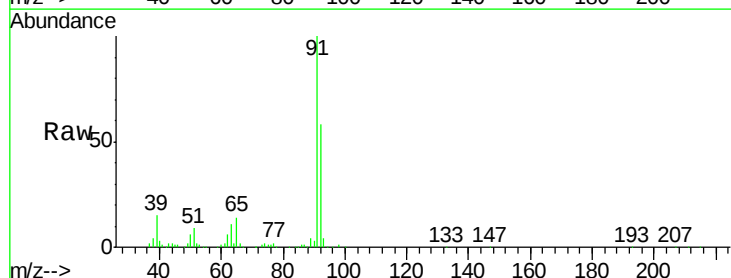
Acq: 25 Jun 2018 15:46

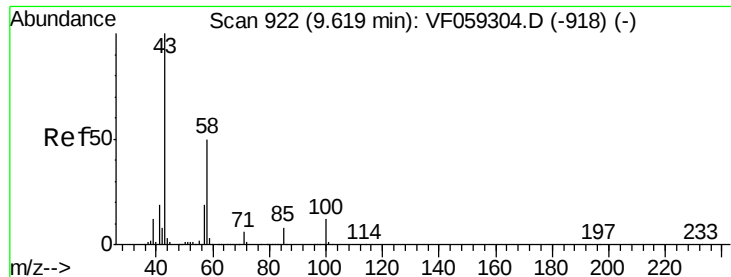
Tgt Ion: 63 Resp: 23716

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





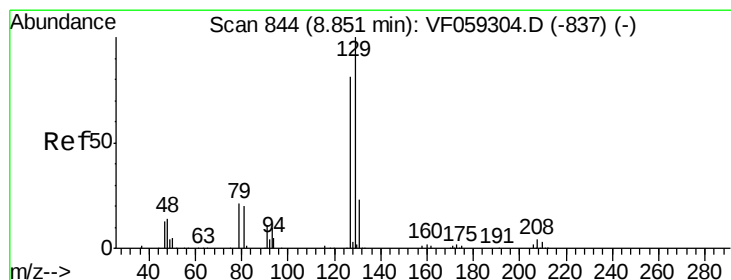
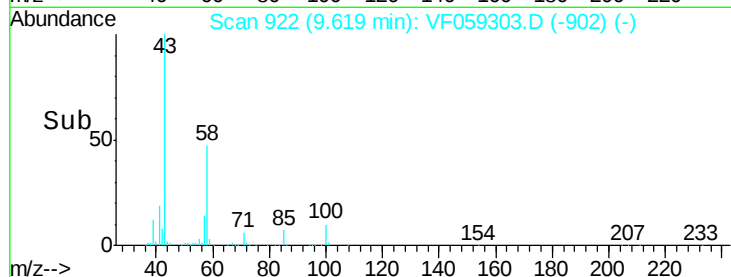
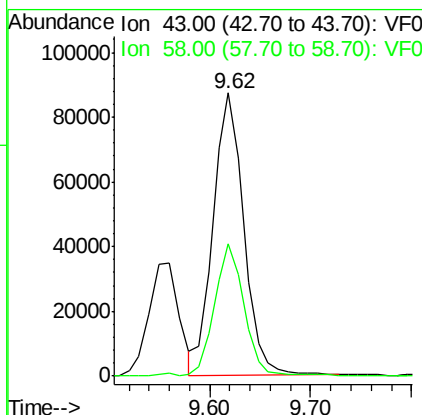
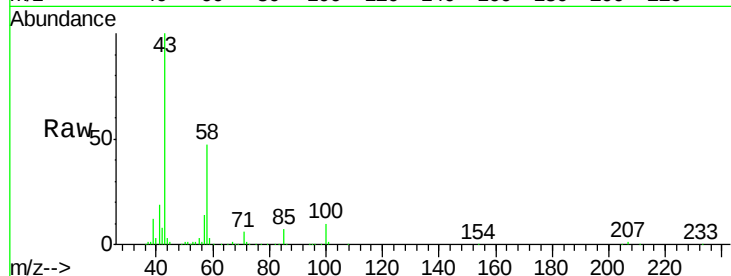
#59
2-Hexanone
Concen: 89.32 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.6	23.3	69.9

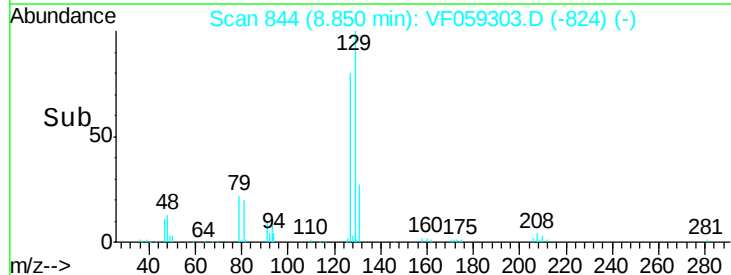
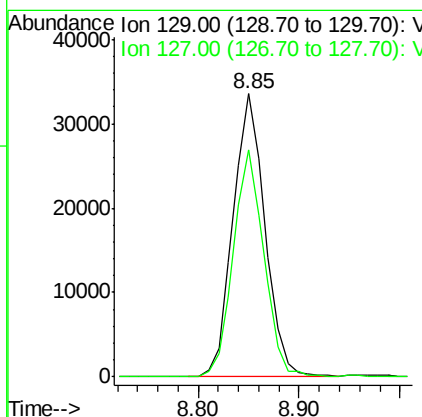
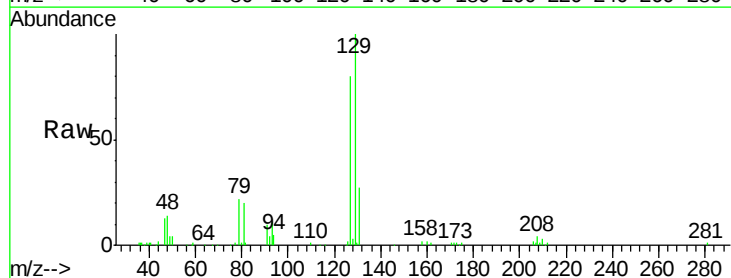
Manual Integrations
APPROVED

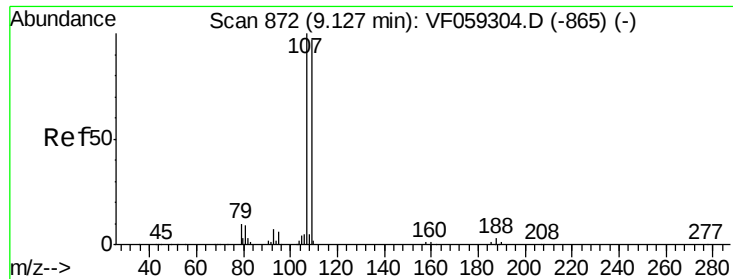
apatel
6/26/2018 10:03:14 AM



#60
Dibromochloromethane
Concen: 17.38 ug/l
RT: 8.85 min Scan# 844
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.3	40.7	122.1





#61

1,2-Dibromoethane

Concen: 16.36 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 54534

Ion Ratio Lower Upper

107 100

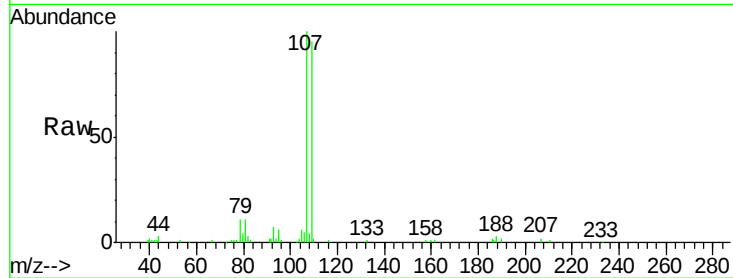
109 94.7 77.3 115.9

Manual Integrations

APPROVED

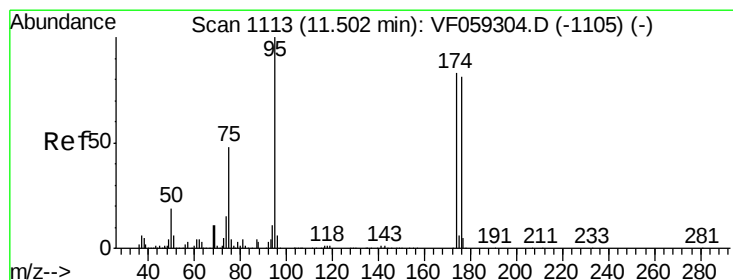
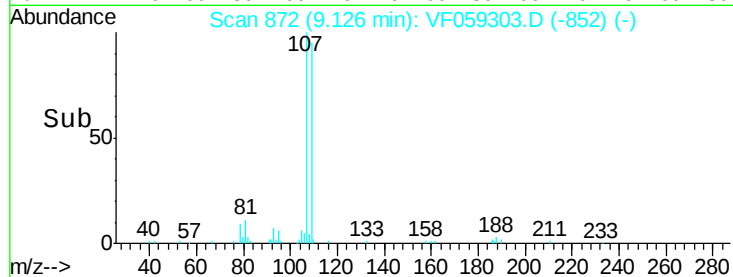
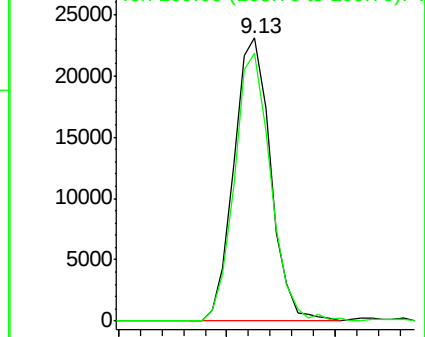
apatel

6/26/2018 10:03:14 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 19.59 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

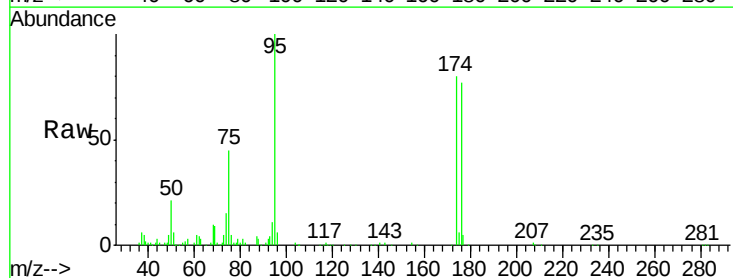
Tgt Ion: 95 Resp: 100241

Ion Ratio Lower Upper

95 100

174 80.0 0.0 165.2

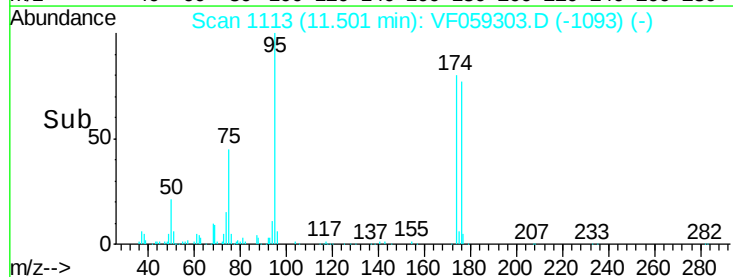
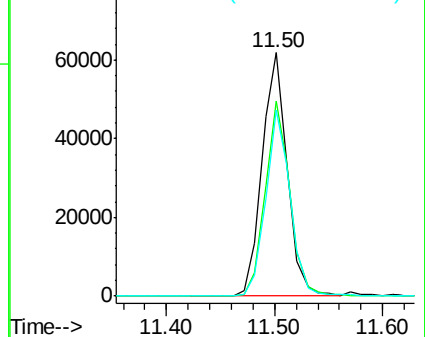
176 76.5 0.0 161.0

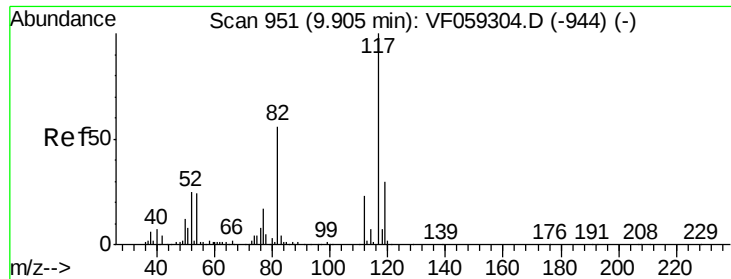


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





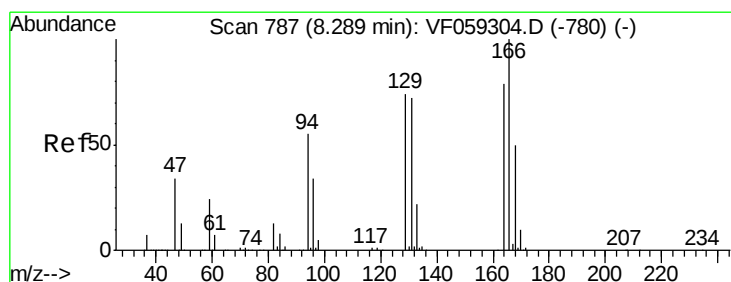
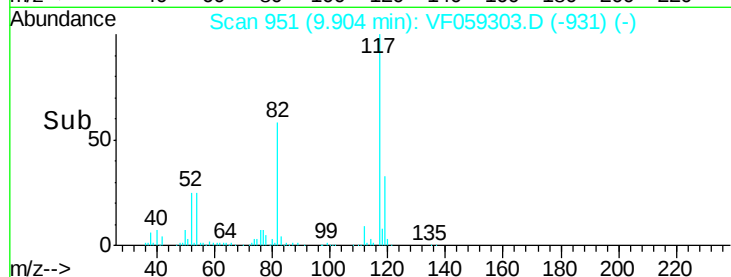
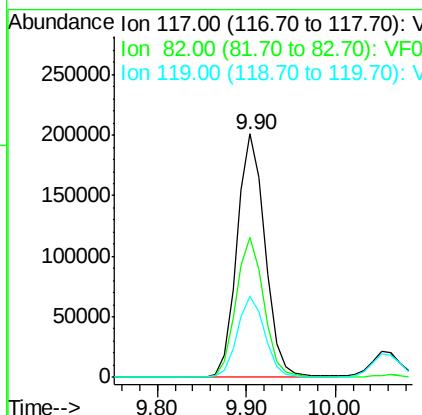
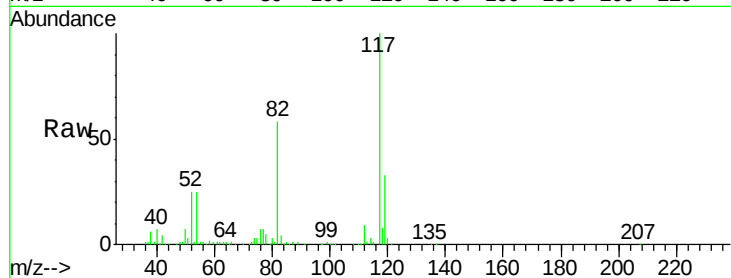
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	44.6	66.8
119	33.2	24.1	36.1

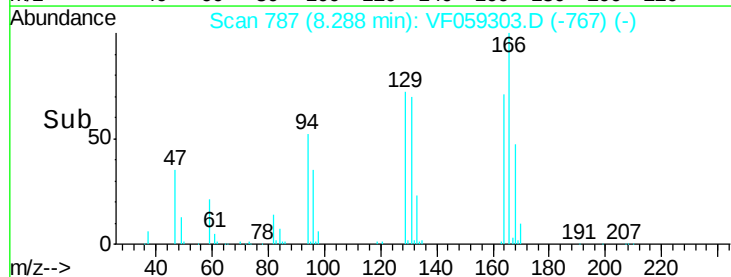
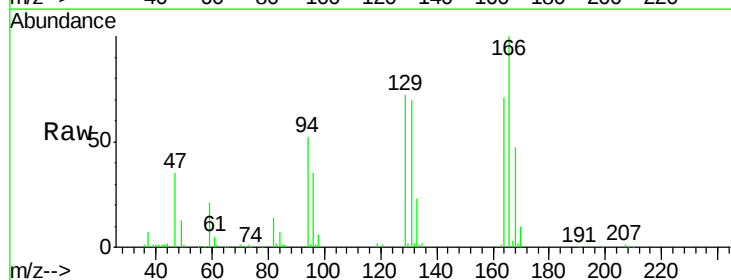
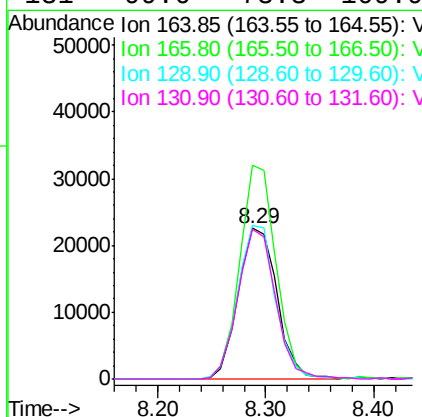
Manual Integrations
APPROVED

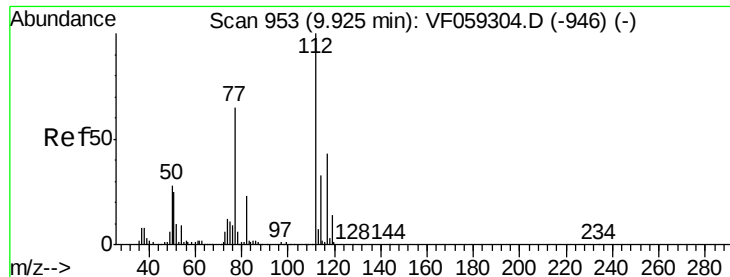
apatel
6/26/2018 10:03:14 AM



#64
Tetrachloroethene
Concen: 17.05 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	141.7	101.1	151.7
129	102.3	75.0	112.4
131	99.6	73.3	109.9





#65

Chlorobenzene

Concen: 17.70 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 161914

Ion Ratio Lower Upper

112 100

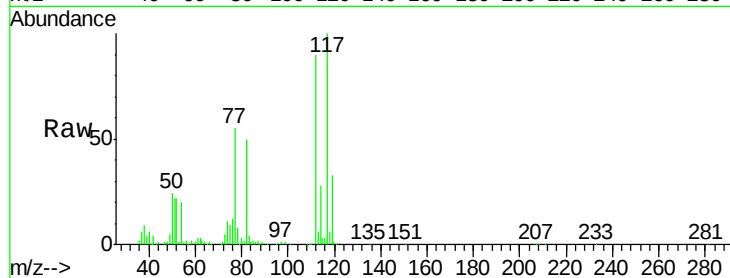
114 30.8 26.5 39.7

Manual Integrations

APPROVED

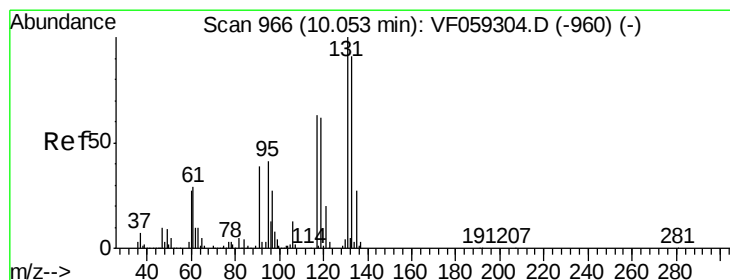
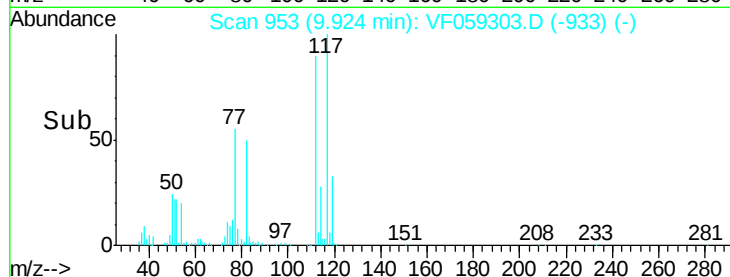
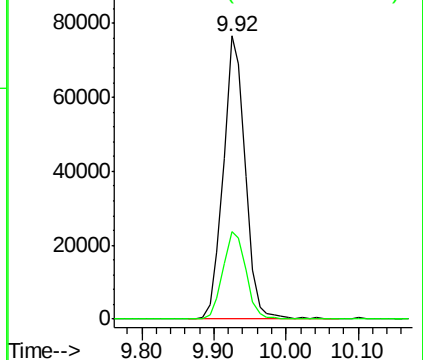
apatel

6/26/2018 10:03:14 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 17.93 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

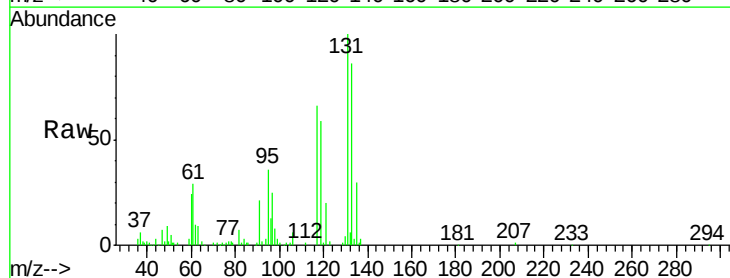
Tgt Ion:131 Resp: 69131

Ion Ratio Lower Upper

131 100

133 85.7 45.3 135.9

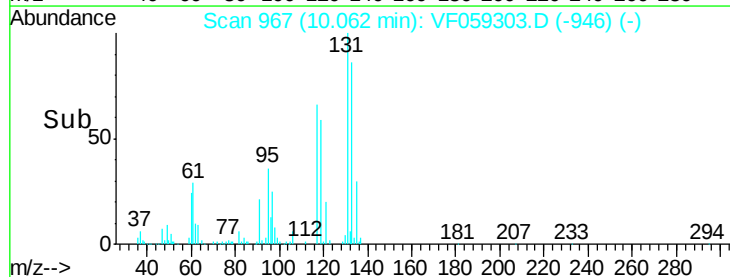
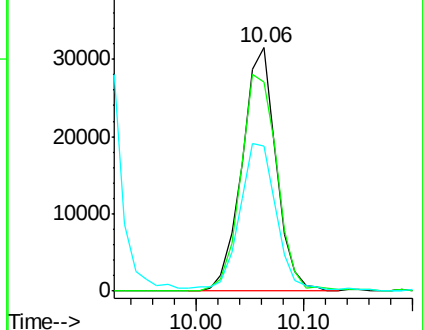
119 59.4 31.3 93.9

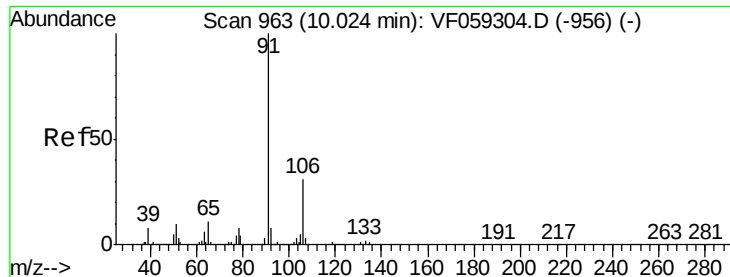


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 18.40 ug/l

RT: 10.02 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 285399

Ion Ratio Lower Upper

91 100

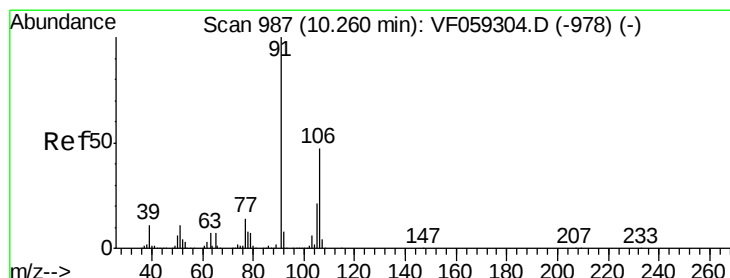
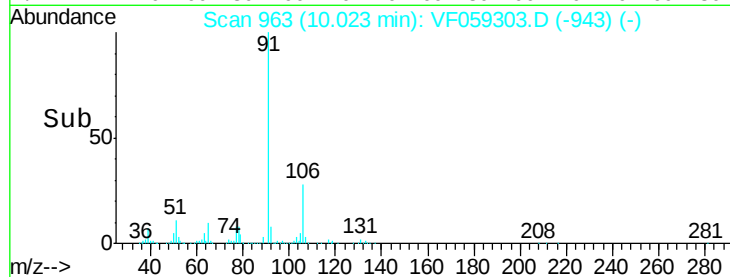
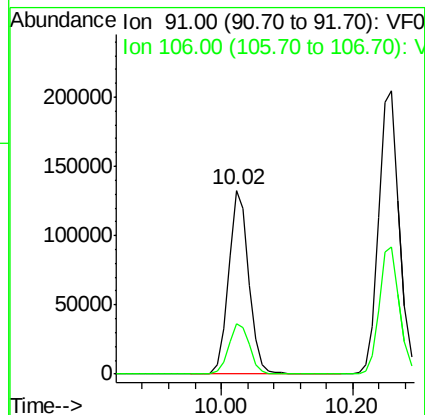
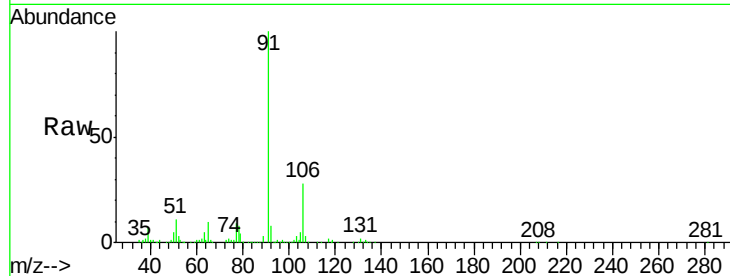
106 27.7 24.8 37.2

Manual Integrations

APPROVED

apatel

6/26/2018 10:03:14 AM



#68

m/p-Xylenes

Concen: 35.56 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.00 min

Lab File: VF059303.D

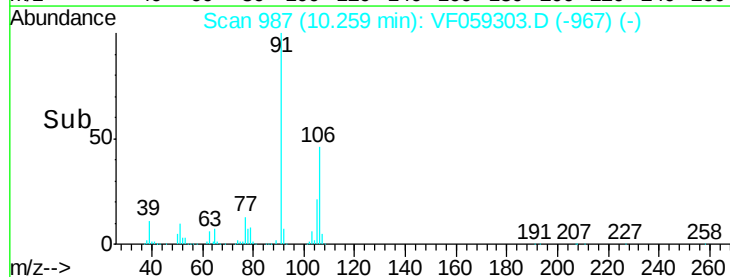
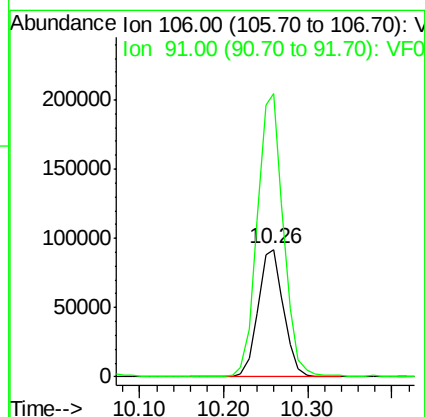
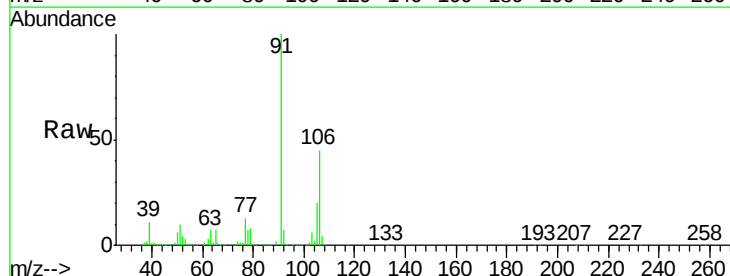
Acq: 25 Jun 2018 15:46

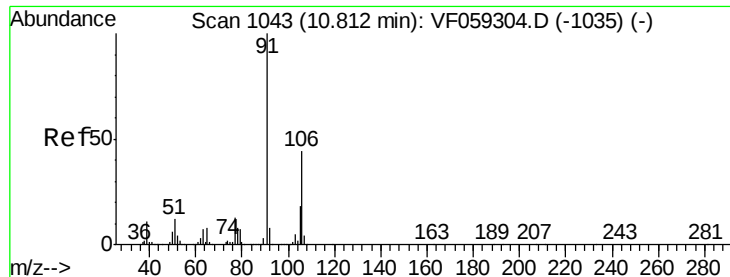
Tgt Ion: 106 Resp: 197050

Ion Ratio Lower Upper

106 100

91 221.9 170.8 256.2





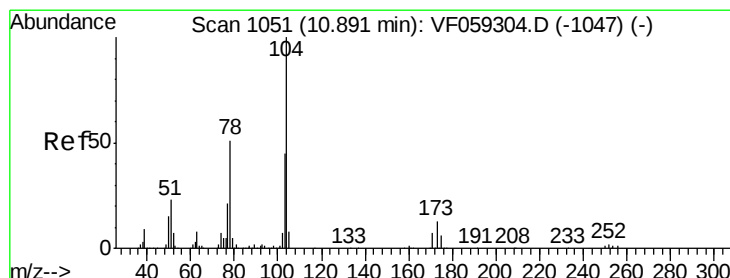
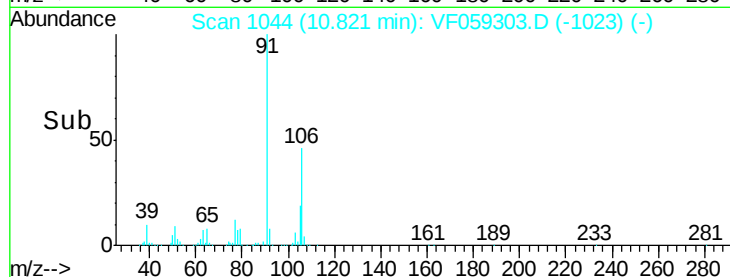
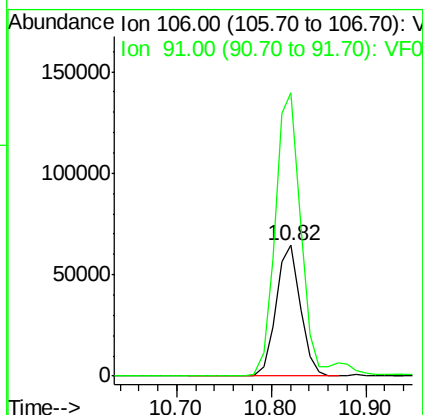
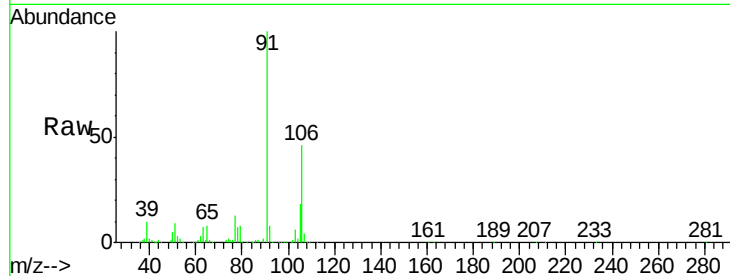
#69
o-Xylene
Concen: 18.89 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	216.9	114.6	343.6

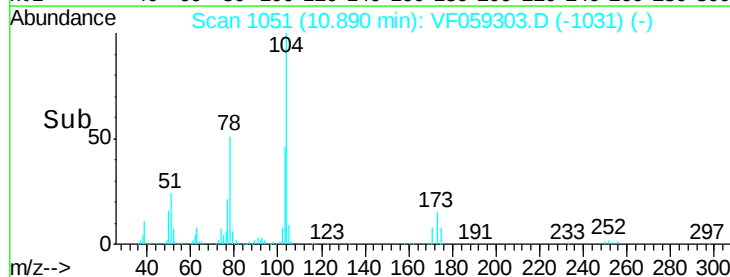
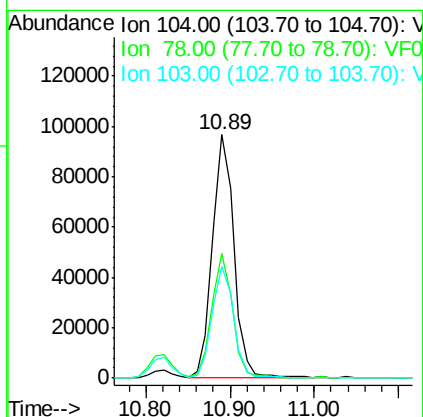
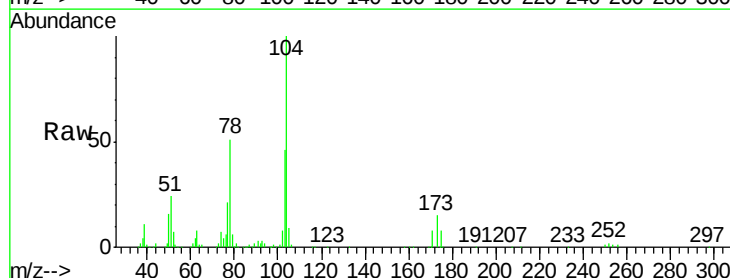
Manual Integrations
APPROVED

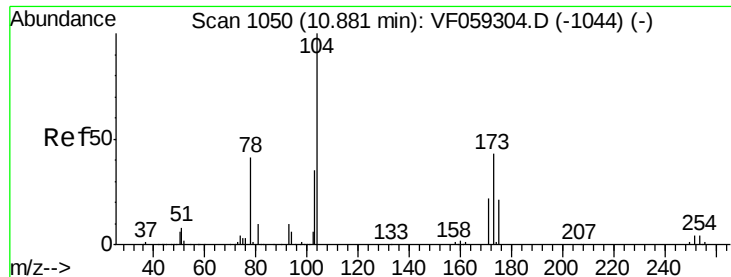
apatel
6/26/2018 10:03:14 AM



#70
Styrene
Concen: 18.33 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.4	40.9	61.3
103	46.0	36.5	54.7





#71

Bromoform

Concen: 16.70 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 45727

Ion Ratio Lower Upper

173 100

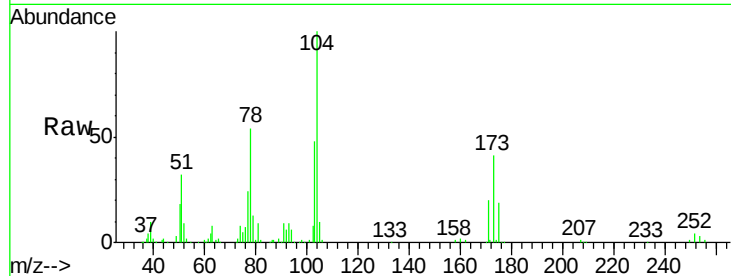
175 45.9 24.8 74.3

254 8.2 0.0 0.0#

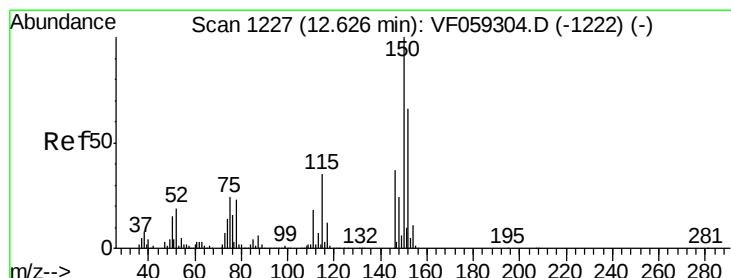
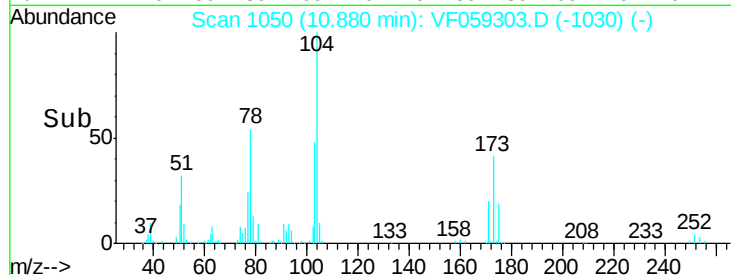
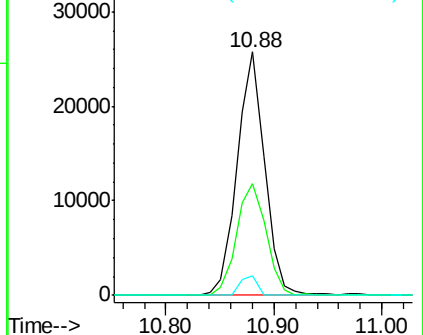
Manual Integrations
APPROVED

apatel

6/26/2018 10:03:14 AM



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

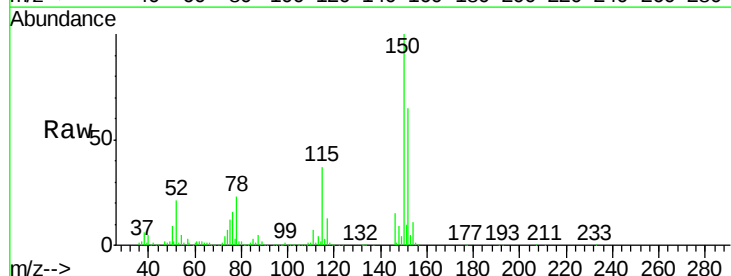
Tgt Ion:152 Resp: 272200

Ion Ratio Lower Upper

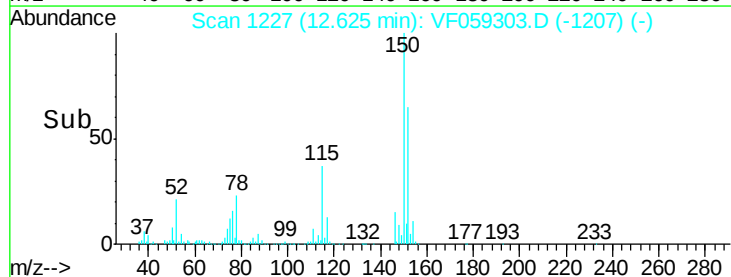
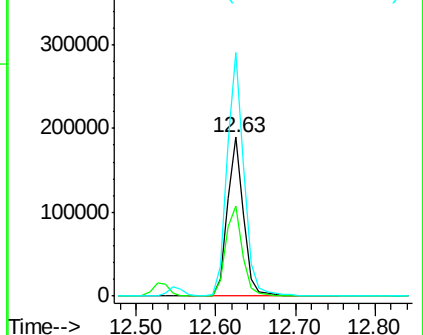
152 100

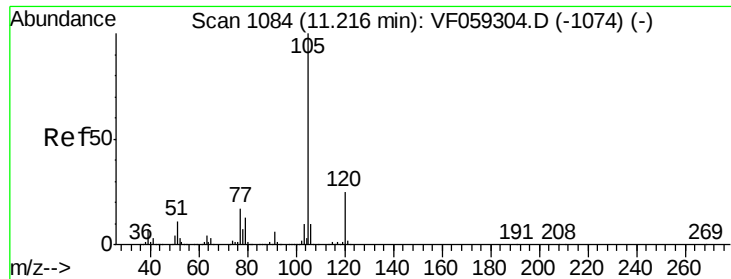
115 56.8 27.1 81.3

150 153.2 0.0 305.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 17.91 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 325117

Ion Ratio Lower Upper

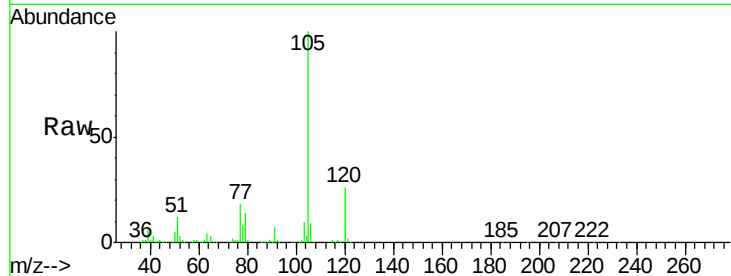
105 100

120 25.6 12.3 36.8

Manual Integrations
APPROVED

apatel

6/26/2018 10:03:14 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.22

200000

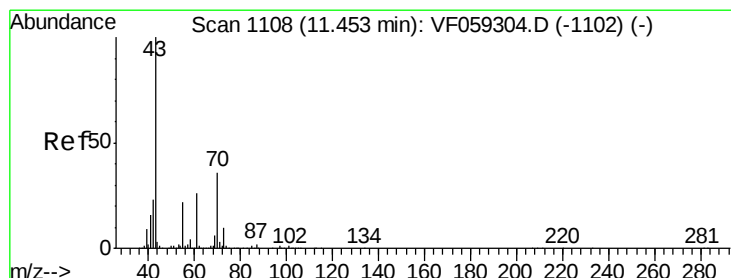
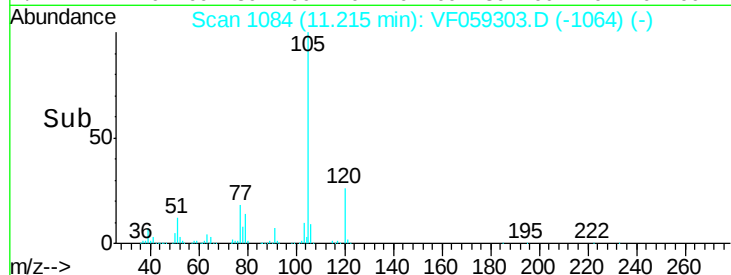
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 17.74 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion: 43 Resp: 107422

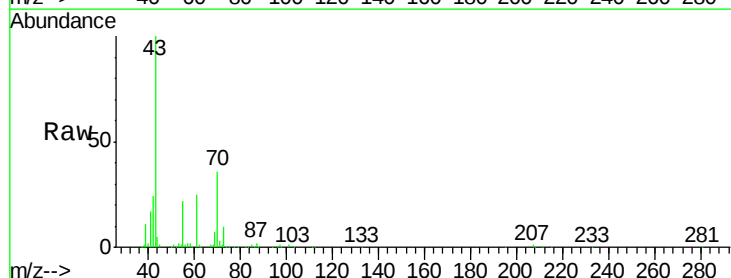
Ion Ratio Lower Upper

43 100

70 36.3 28.8 43.2

55 22.2 17.4 26.0

61 24.7 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.45

100000

80000

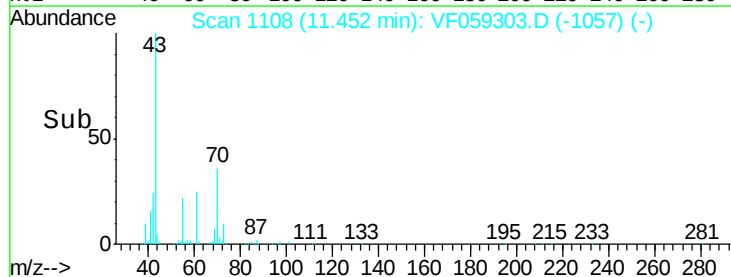
60000

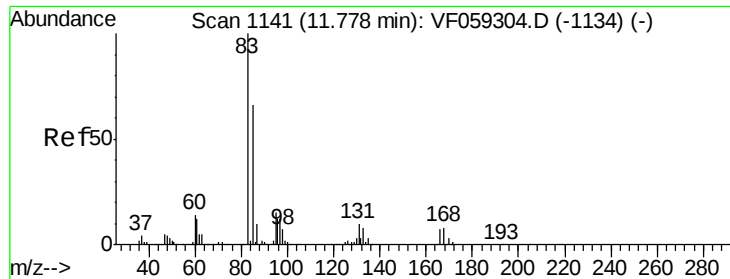
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 17.30 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

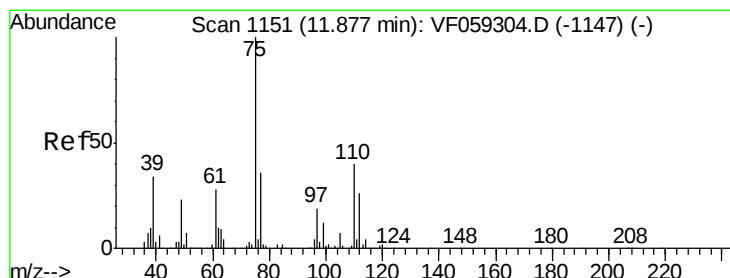
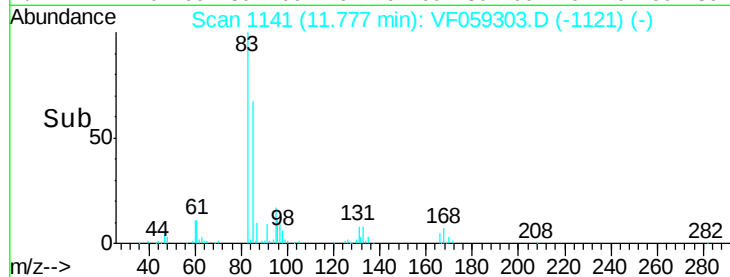
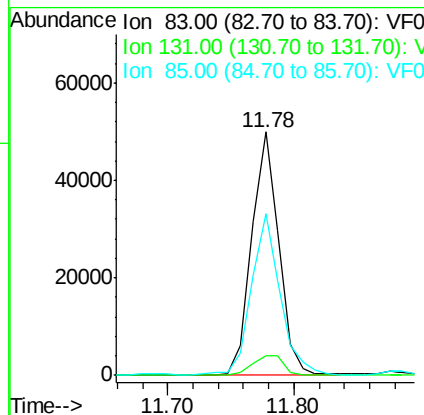
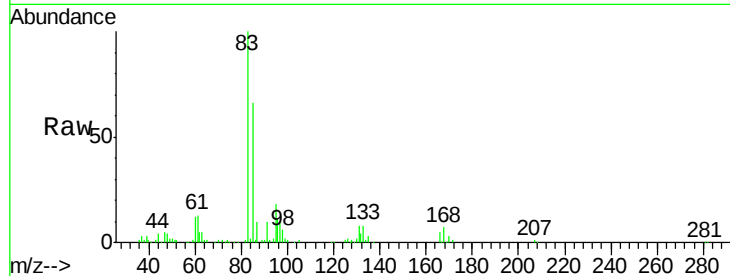
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	75221
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.9	14.6
85	66.5	32.8	98.4

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#76

1,2,3-Trichloropropane

Concen: 18.01 ug/l

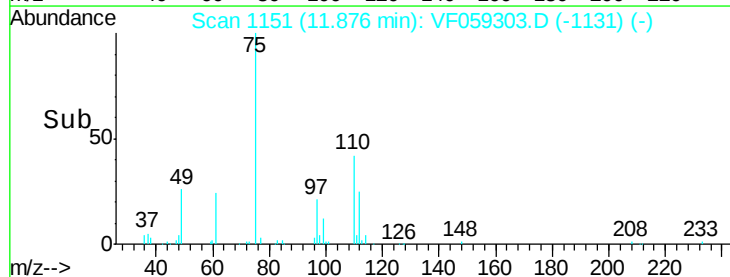
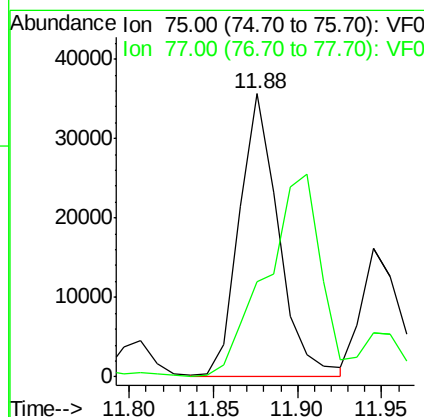
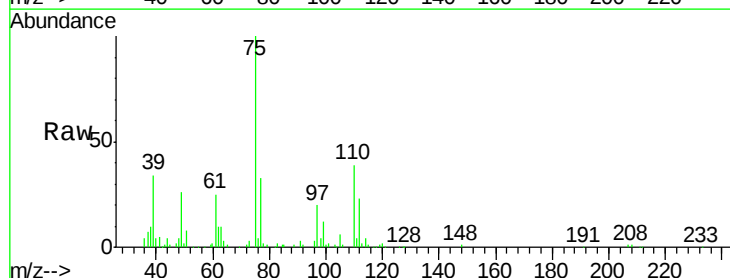
RT: 11.88 min Scan# 1151

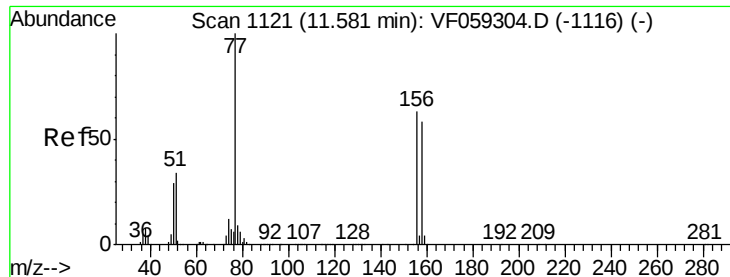
Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	75	Resp:	57232
Ion Ratio	Lower	Upper	
75	100		
77	33.4	18.0	54.0





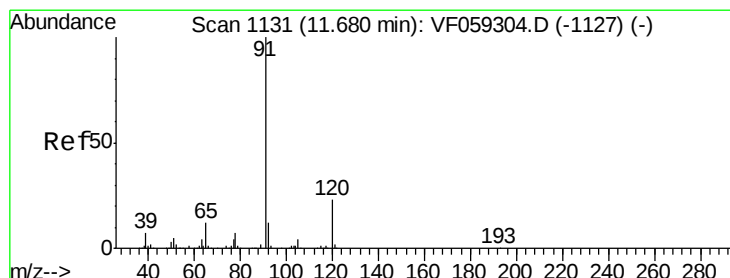
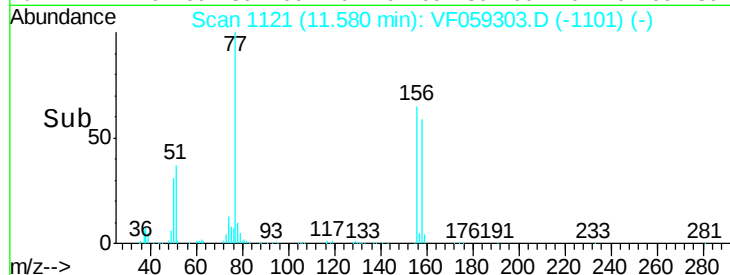
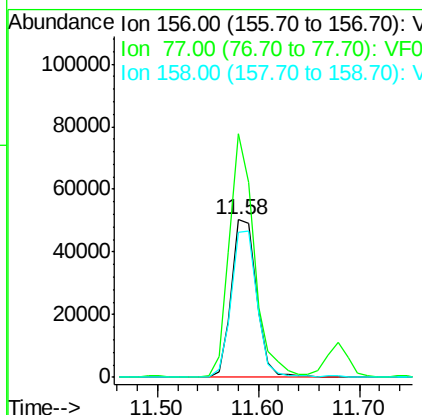
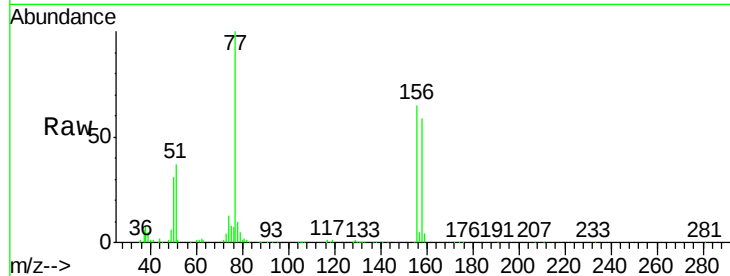
#77
Bromobenzene
Concen: 17.83 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	154.3	79.7	238.9	
158	91.6	46.2	138.6	

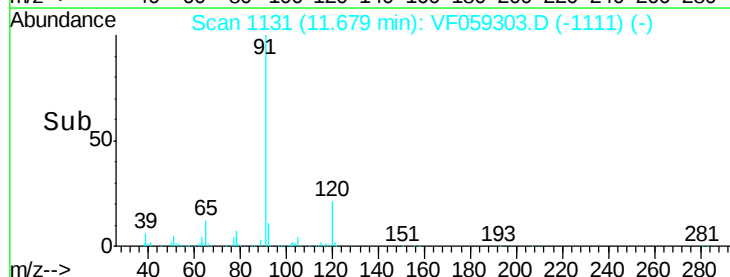
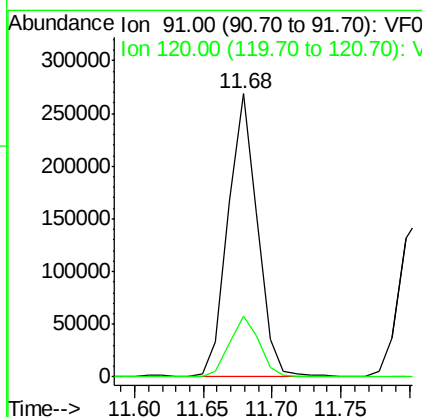
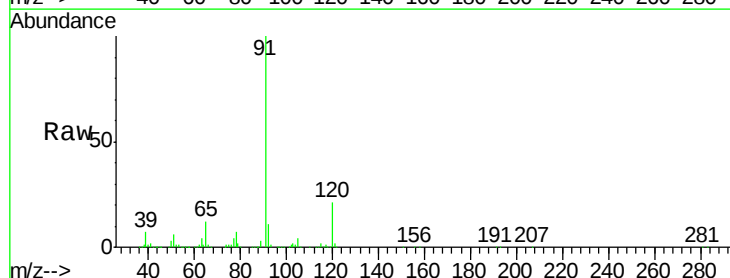
Manual Integrations
APPROVED

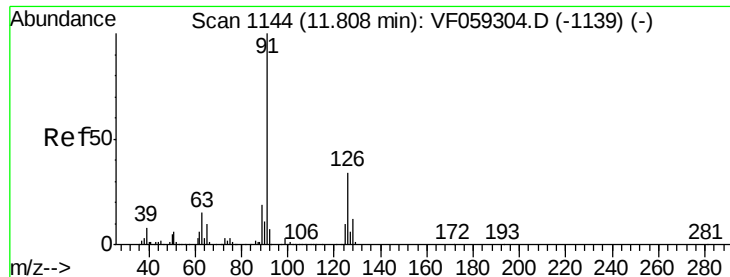
apatel
6/26/2018 10:03:14 AM



#78
n-propylbenzene
Concen: 18.61 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.4	11.7	35.0	





#79

2-Chlorotoluene

Concen: 18.65 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 239930

Ion Ratio Lower Upper

91 100

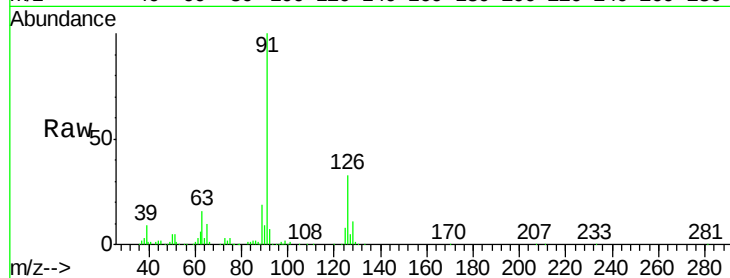
126 33.4 17.2 51.5

Manual Integrations

APPROVED

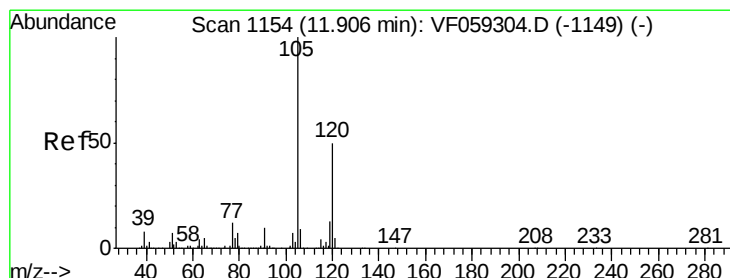
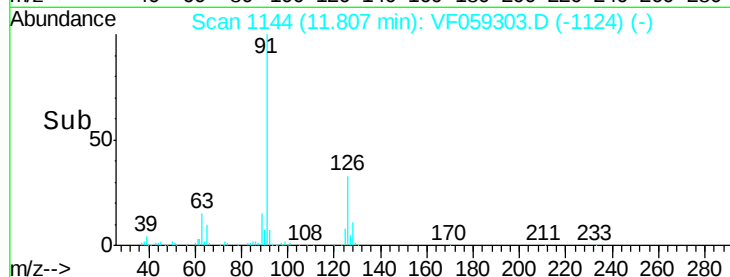
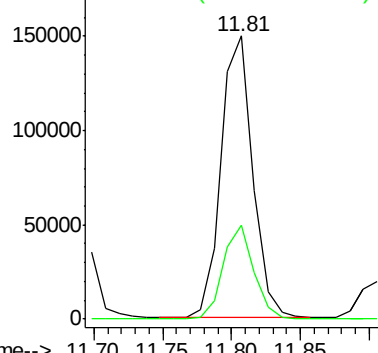
apatel

6/26/2018 10:03:14 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 18.83 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VF059303.D

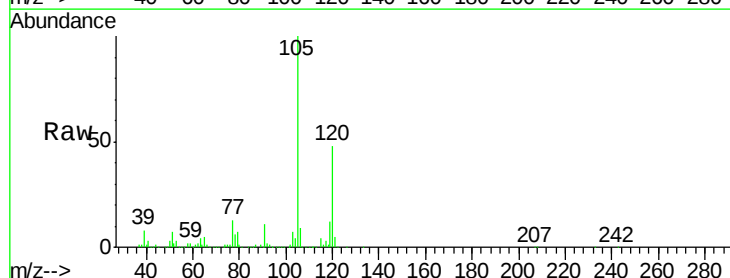
Acq: 25 Jun 2018 15:46

Tgt Ion: 105 Resp: 288701

Ion Ratio Lower Upper

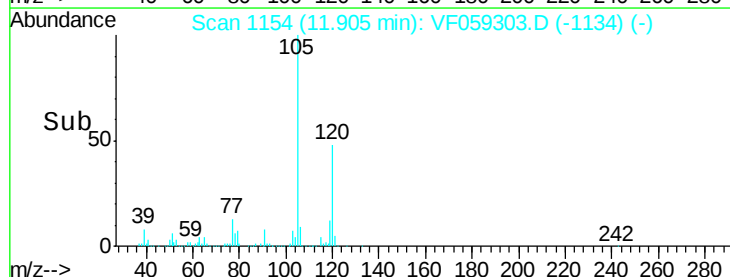
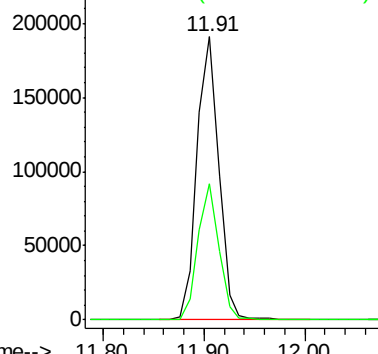
105 100

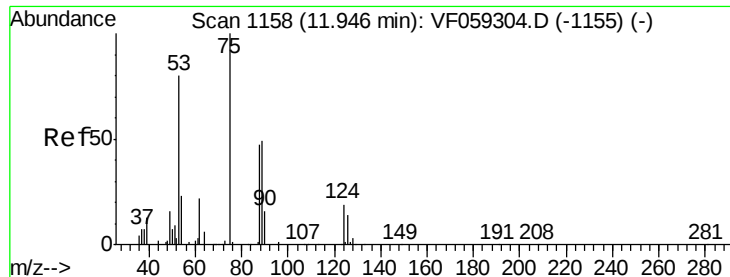
120 48.3 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





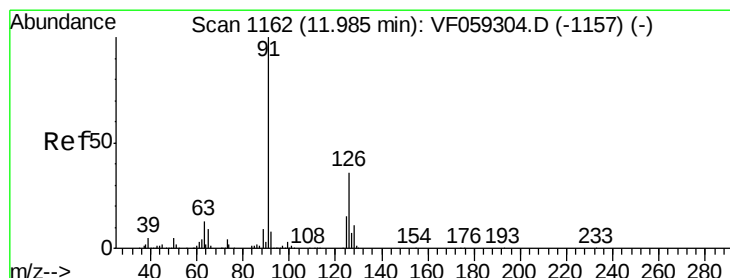
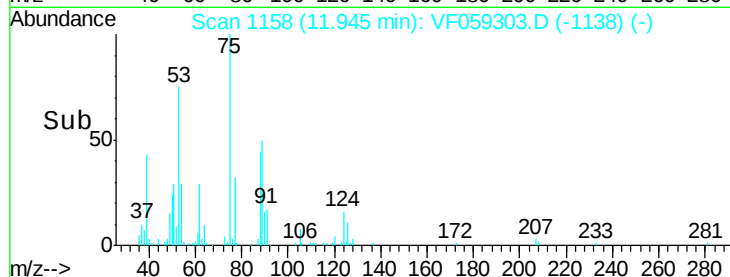
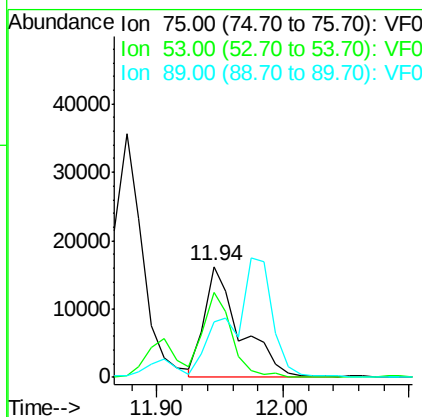
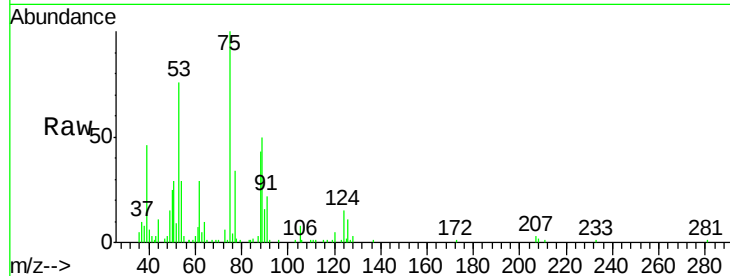
#81
trans-1,4-Dichloro-2-butene
Concen: 16.26 ug/l
RT: 11.94 min Scan# 1158
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	76.4	68.8	103.2
89	50.1	42.0	63.0

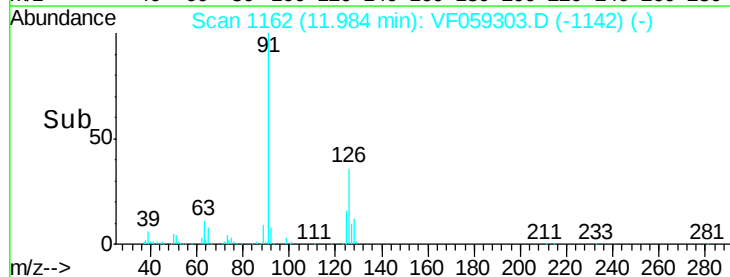
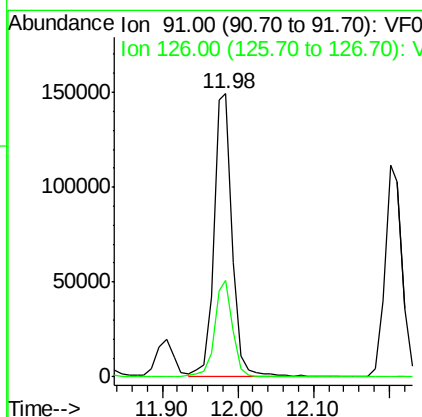
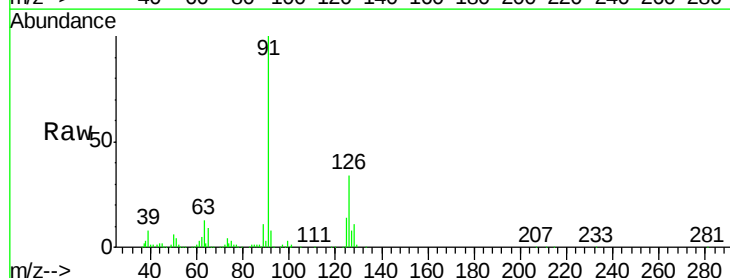
Manual Integrations
APPROVED

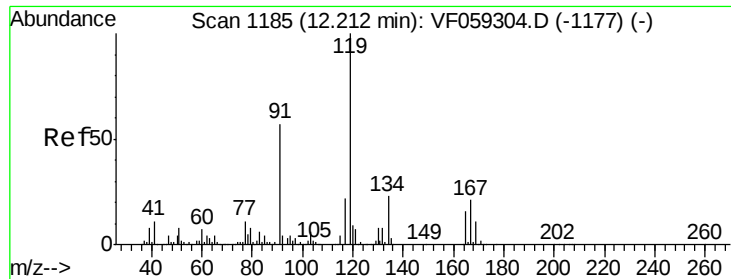
apatel
6/26/2018 10:03:14 AM



#82
4-Chlorotoluene
Concen: 18.32 ug/l
RT: 11.98 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.9	18.2	54.6





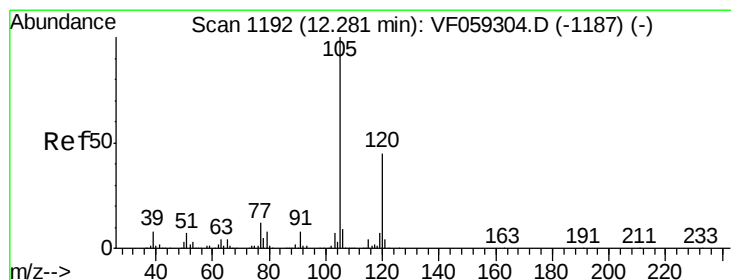
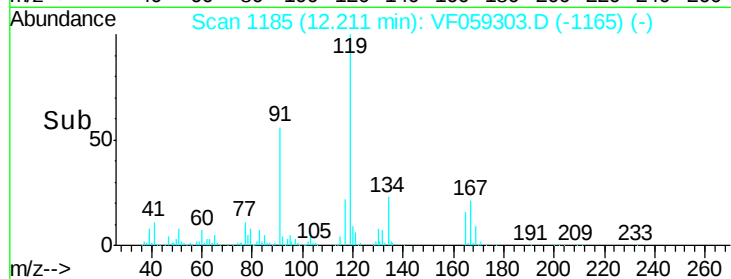
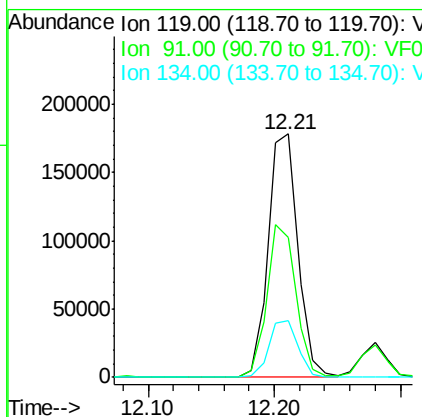
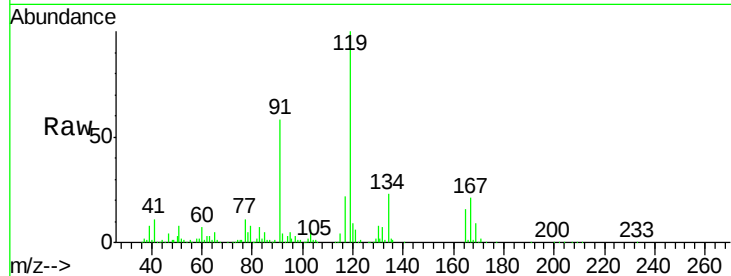
#83
tert-Butylbenzene
Concen: 18.92 ug/l
RT: 12.21 min Scan# 1185
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	292926		
91	57.7	28.4	85.2	
134	23.3	11.7	35.1	

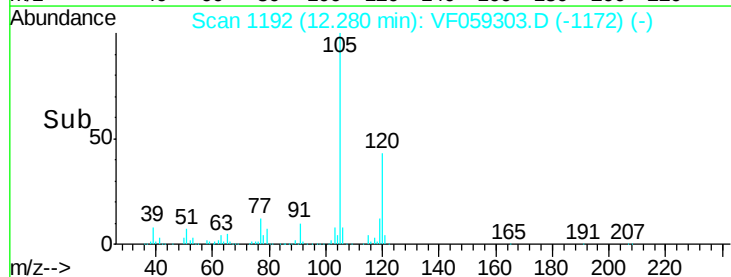
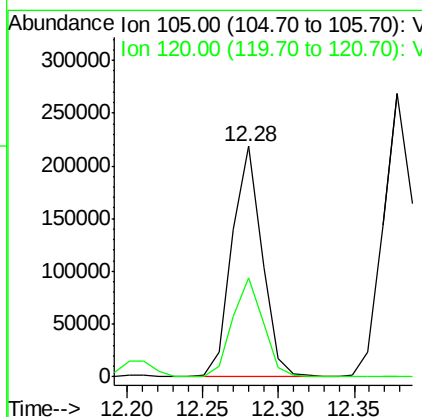
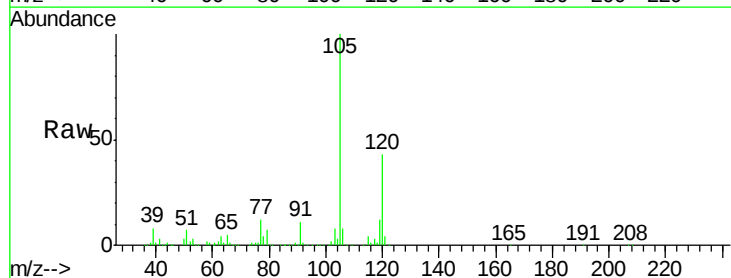
Manual Integrations
APPROVED

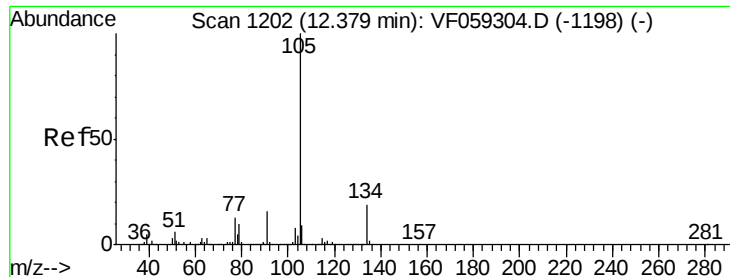
apatel
6/26/2018 10:03:14 AM



#84
1,2,4-Trimethylbenzene
Concen: 18.60 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	301649		
120	43.2	22.8	68.4	





#85

sec-Butylbenzene

Concen: 18.45 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 383630

Ion Ratio Lower Upper

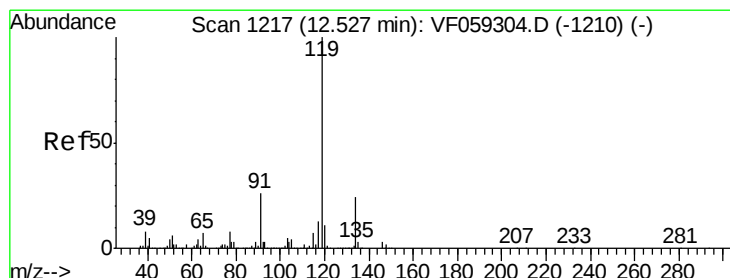
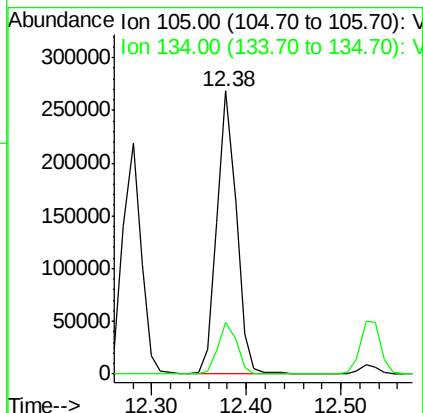
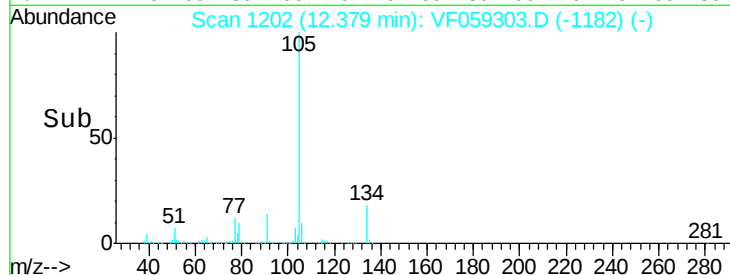
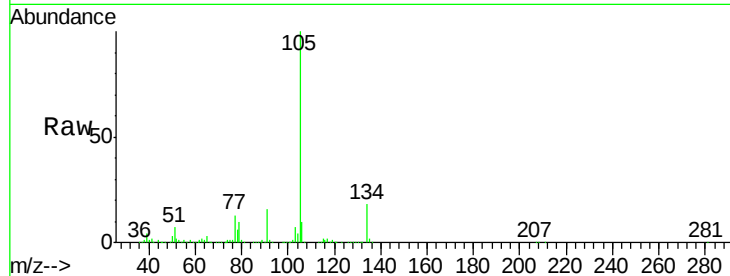
105 100

134 18.2 9.4 28.3

Manual Integrations
APPROVED

apatel

6/26/2018 10:03:14 AM



#86

p-Isopropyltoluene

Concen: 19.07 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

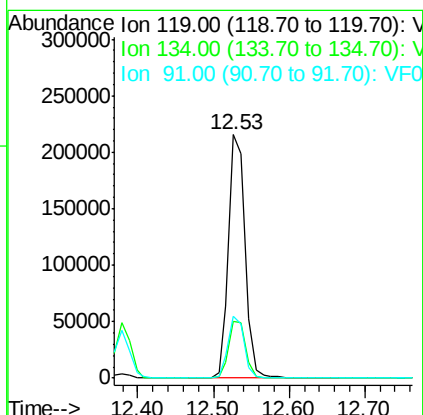
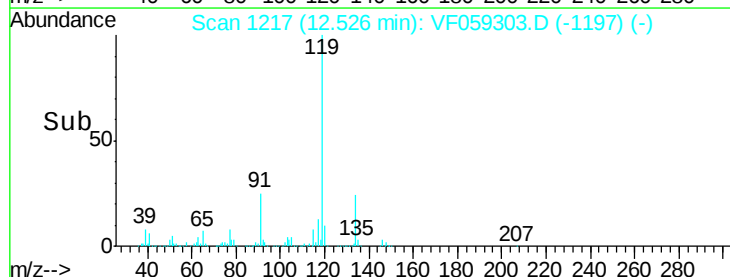
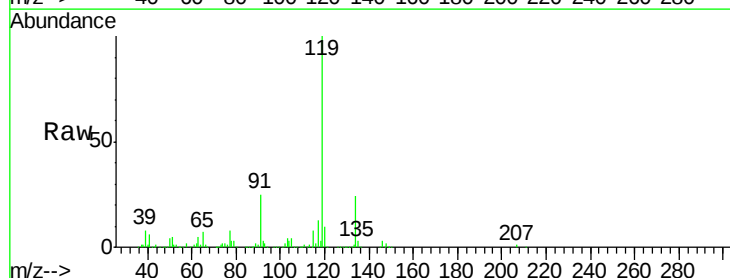
Tgt Ion:119 Resp: 325303

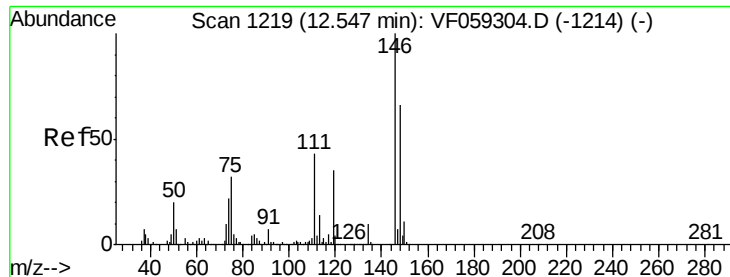
Ion Ratio Lower Upper

119 100

134 23.5 12.2 36.4

91 25.3 12.9 38.6





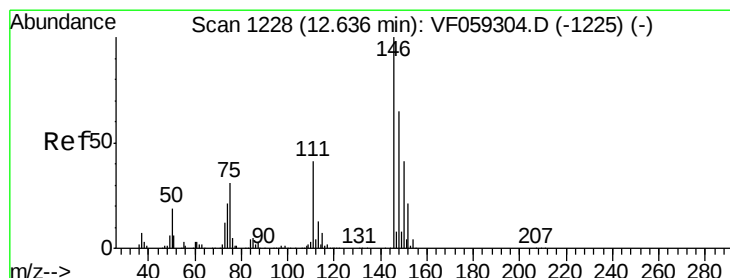
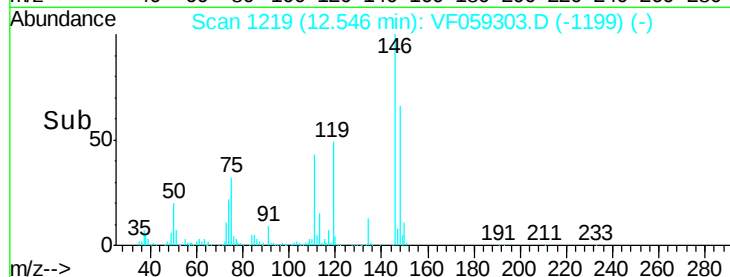
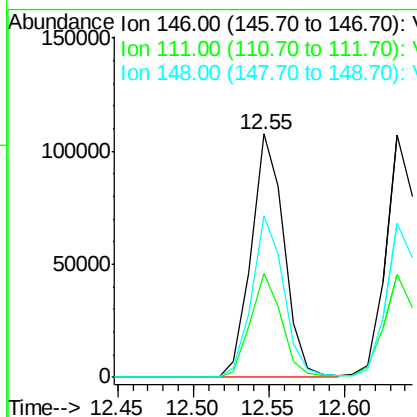
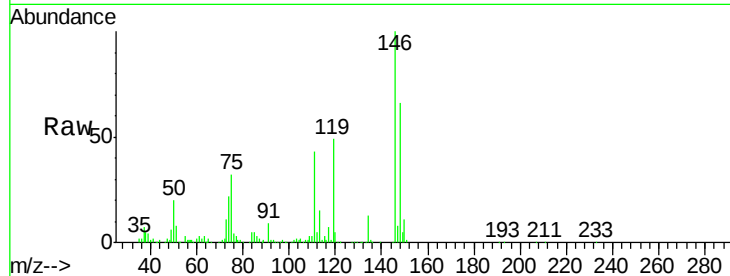
#87
 1,3-Dichlorobenzene
 Concen: 18.49 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.2
148	66.2	32.8	98.4

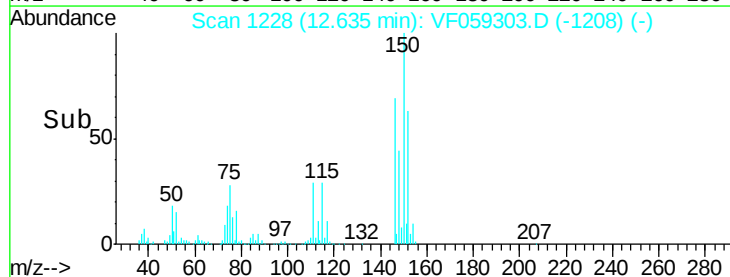
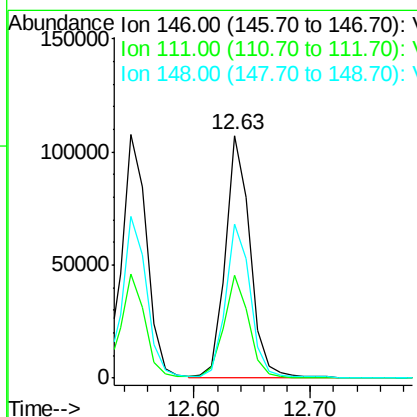
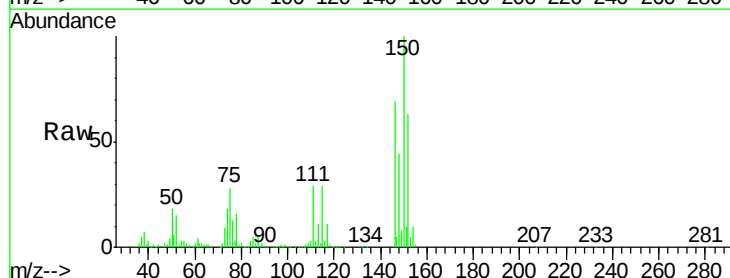
Manual Integrations
 APPROVED

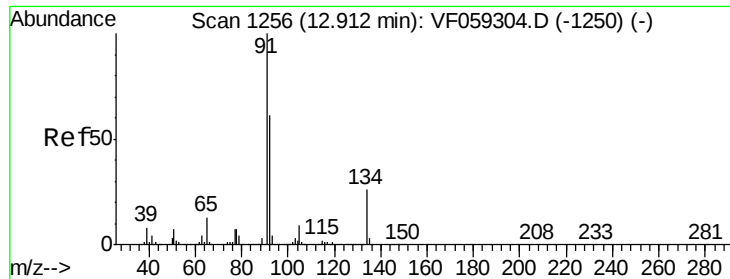
apatel
 6/26/2018 10:03:14 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.14 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VF059303.D
 Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.7	62.1
148	63.7	32.8	98.3





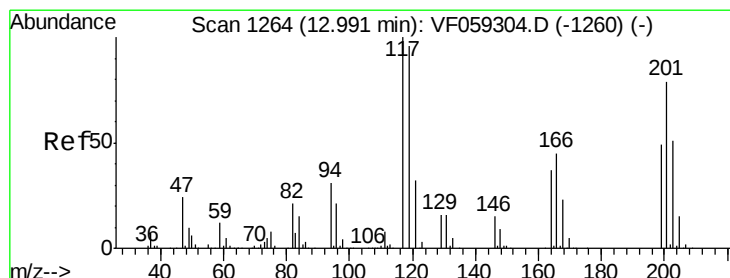
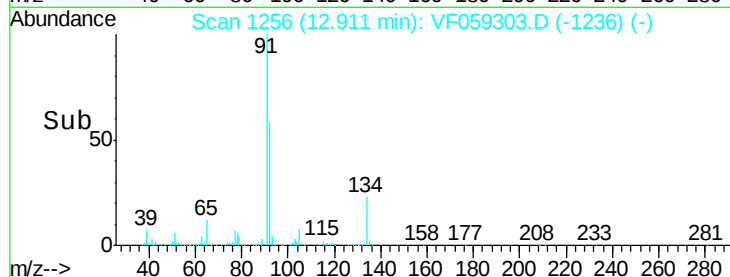
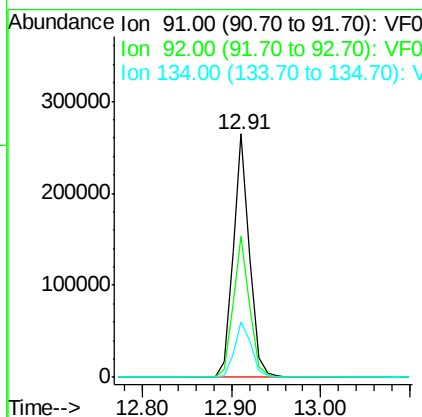
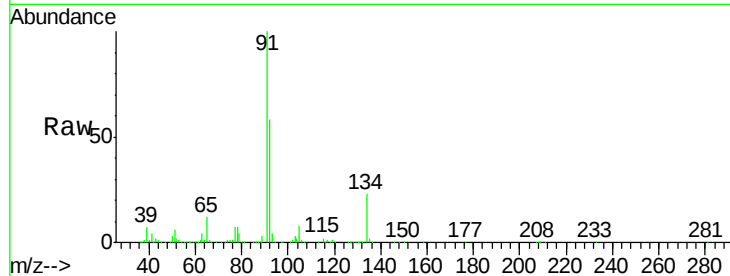
#89
n-Butylbenzene
Concen: 19.73 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.2	30.3	91.0
134	22.9	12.9	38.7

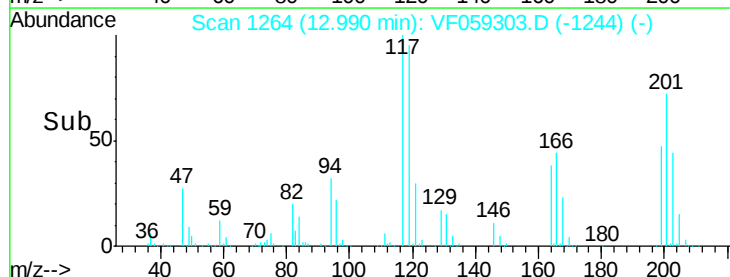
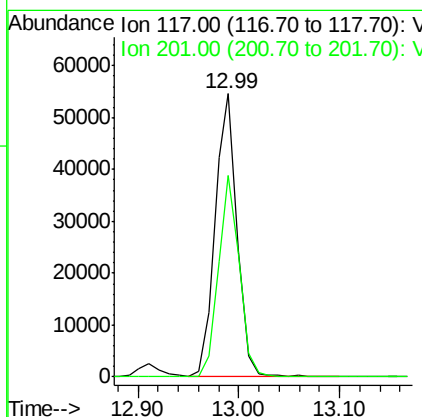
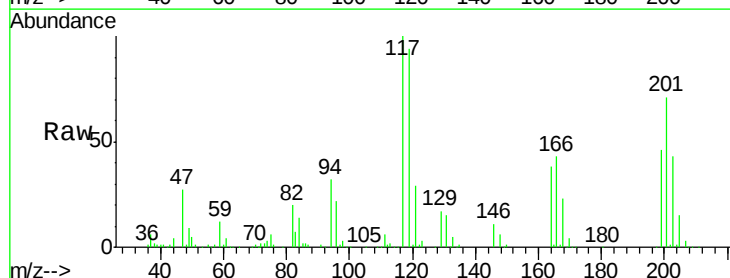
Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#90
Hexachloroethane
Concen: 19.37 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.7	39.5	118.5





#91

1,2-Dichlorobenzene

Concen: 18.16 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

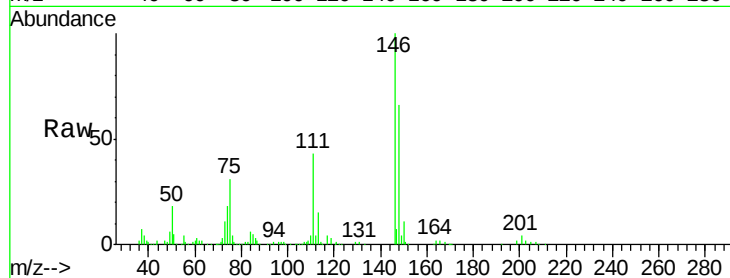
ClientSampleId :

VSTDIC020

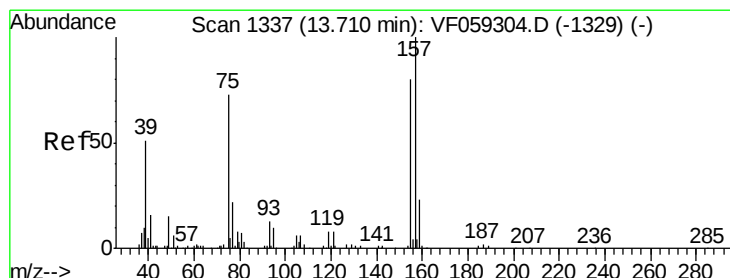
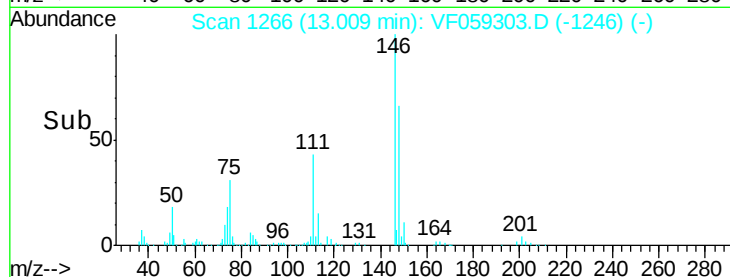
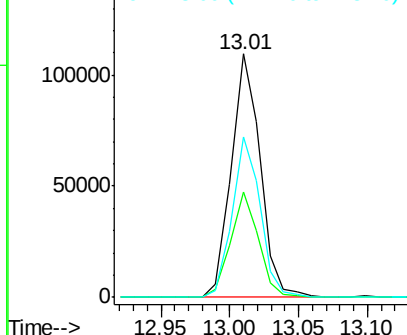
Tot Ion:	146	Resp:	160746
Ion Ratio	Lower	Upper	
146	100		
111	43.2	22.7	68.0
148	65.8	33.5	100.4

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.33 ug/l

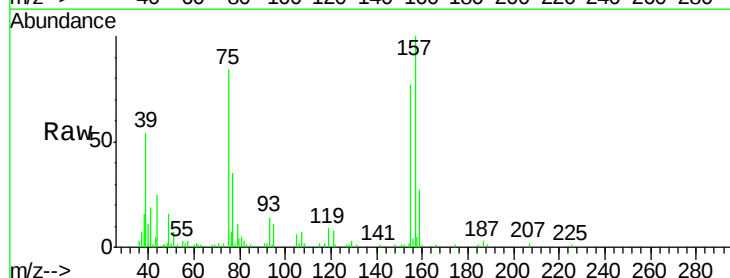
RT: 13.71 min Scan# 1337

Delta R.T. -0.00 min

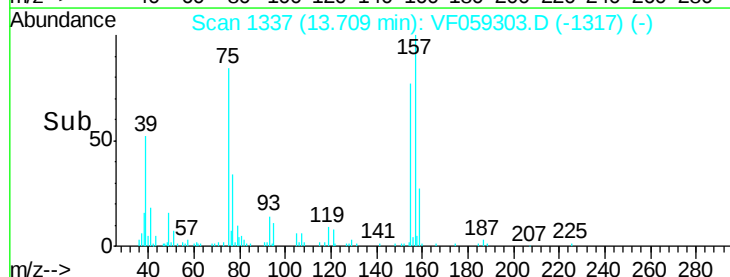
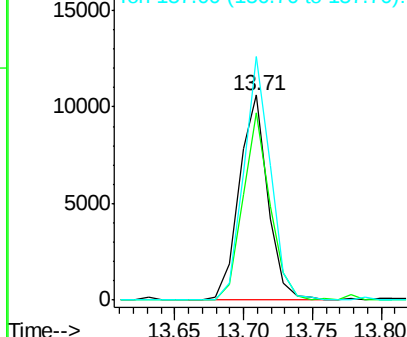
Lab File: VF059303.D

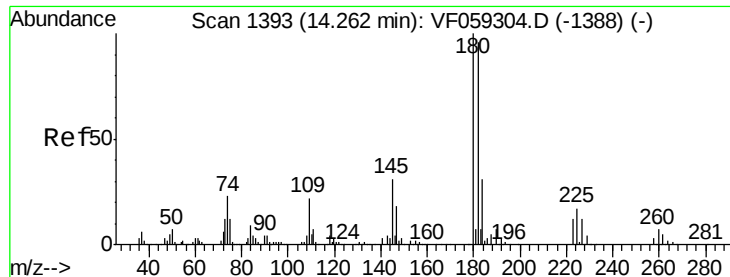
Acq: 25 Jun 2018 15:46

Tgt Ion:	75	Resp:	15332
Ion Ratio	Lower	Upper	
75	100		
155	91.3	54.6	163.8
157	118.9	68.7	205.9



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





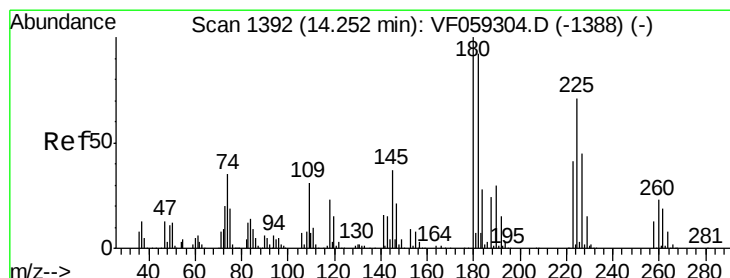
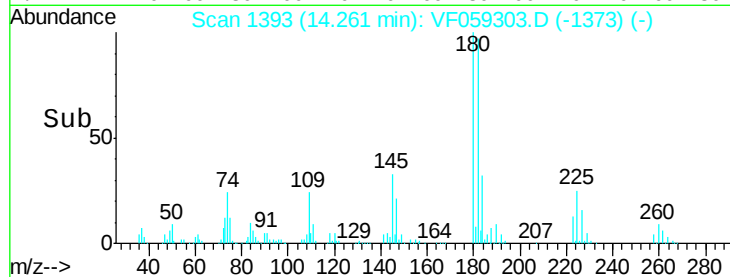
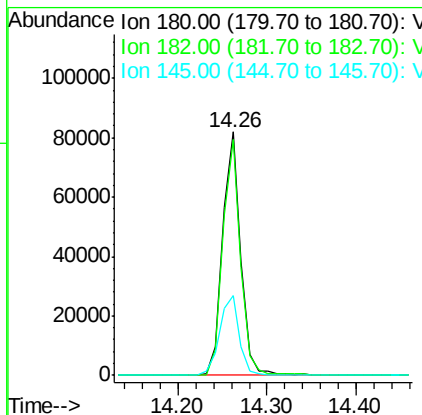
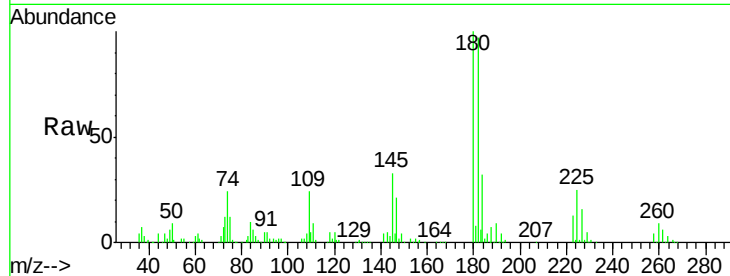
#93
1,2,4-Trichlorobenzene
Concen: 18.39 ug/l
RT: 14.26 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	118051		
182	96.9	48.1	144.3	
145	33.0	15.3	45.8	

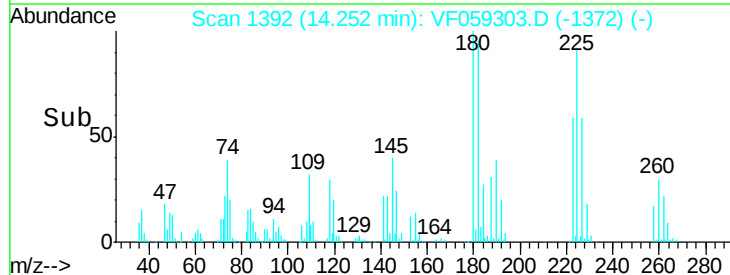
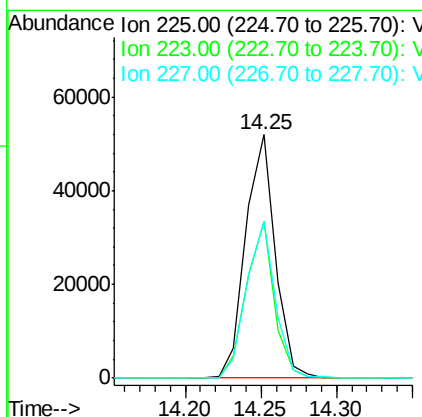
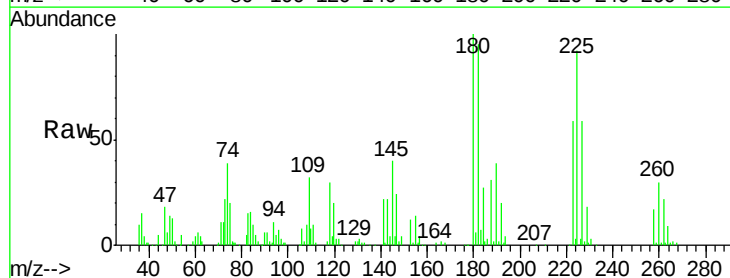
Manual Integrations
APPROVED

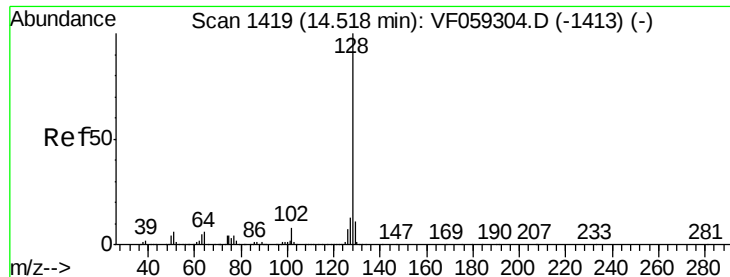
apatel
6/26/2018 10:03:14 AM



#94
Hexachlorobutadiene
Concen: 18.76 ug/l
RT: 14.25 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VF059303.D
Acq: 25 Jun 2018 15:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70449		
223	64.1	28.9	86.8	
227	64.1	31.3	93.8	





#95

Naphthalene

Concen: 17.42 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Instrument :

MSVOA_F

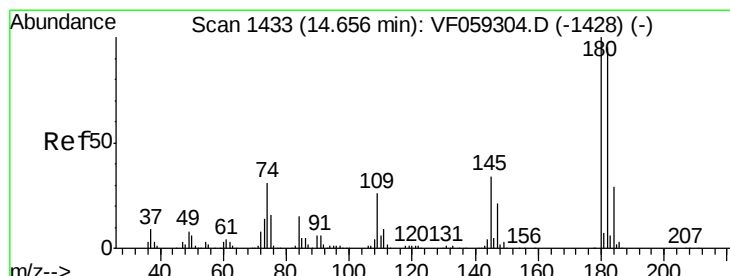
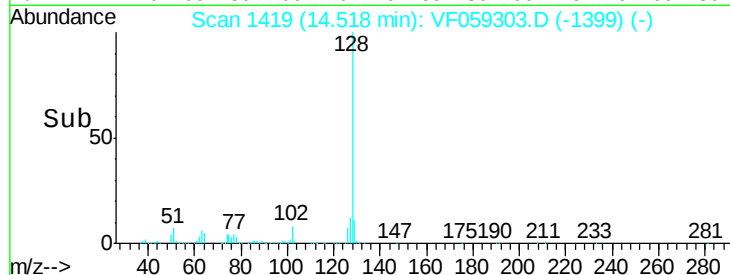
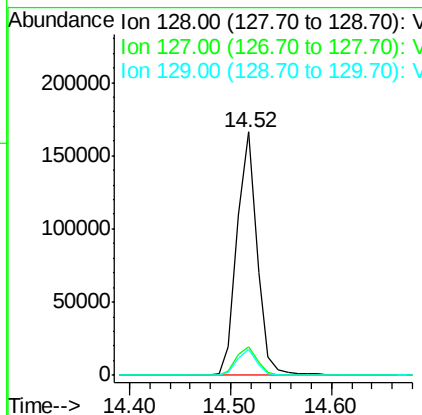
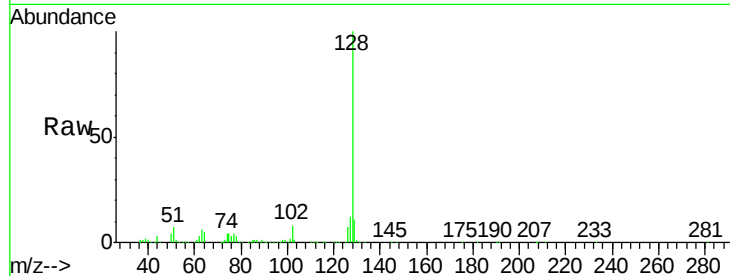
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	230478
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.1	15.1
129	10.7	8.8	13.2

Manual Integrations
APPROVED

apatel
6/26/2018 10:03:14 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.17 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VF059303.D

Acq: 25 Jun 2018 15:46

Tgt Ion:	180	Resp:	109669
Ion Ratio	Lower	Upper	
180	100		
182	102.6	47.5	142.5
145	30.1	17.0	50.9

