

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071718\
 Data File : VF059512.D
 Acq On : 17 Jul 2018 17:34
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 7/18/2018 3:16:04 PM

Quant Time: Jul 18 02:20:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 01:41:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	274671	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	397936	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	385748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	224711	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	88981	21.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.92%	
35) Dibromofluoromethane	4.31	113	68869	19.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.86%	
50) Toluene-d8	7.72	98	178905	20.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.86%	
62) 4-Bromofluorobenzene	11.52	95	96384	21.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	69844	22.34	ug/l	92
3) Chloromethane	1.09	50	34247	19.43	ug/l #	84
4) Vinyl Chloride	1.15	62	37138	20.23	ug/l	98
5) Bromomethane	1.34	94	27670	21.64	ug/l	96
6) Chloroethane	1.43	64	20155	20.98	ug/l	91
7) Trichlorofluoromethane	1.51	101	95751	22.73	ug/l	96
8) Diethyl Ether	1.71	74	20054	23.76	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.91	101	37404	18.69	ug/l	92
10) Methyl Iodide	1.97	142	68414	20.28	ug/l	95
11) Tert butyl alcohol	2.69	59	19028	98.95	ug/l #	91
12) 1,1-Dichloroethene	1.87	96	41754	21.60	ug/l	97
13) Acrolein	2.09	56	11500	107.05	ug/l #	81
14) Allyl chloride	2.19	41	51024	20.13	ug/l	98
15) Acrylonitrile	3.09	53	37233	104.93	ug/l	99
16) Acetone	2.34	43	69274	98.37	ug/l	95
17) Carbon Disulfide	1.88	76	114564	21.83	ug/l	97
18) Methyl Acetate	2.46	43	25303m	17.50	ug/l	
19) Methyl tert-butyl Ether	2.55	73	129028	20.41	ug/l	100
20) Methylene Chloride	2.32	84	47148	18.70	ug/l #	78
21) trans-1,2-Dichloroethene	2.42	96	39427	22.39	ug/l	97
22) Diisopropyl ether	2.93	45	149771	20.61	ug/l	96
23) Vinyl Acetate	3.34	43	444208	105.18	ug/l	100
24) 1,1-Dichloroethane	3.01	63	90296	21.89	ug/l	98
25) 2-Butanone	4.54	43	99190	96.90	ug/l	96
26) 2,2-Dichloropropane	3.78	77	58249	21.04	ug/l	92
27) cis-1,2-Dichloroethene	3.64	96	44282	18.40	ug/l	92
28) Bromochloromethane	3.90	49	39196	20.49	ug/l	93
29) Tetrahydrofuran	4.27	42	46398	105.53	ug/l	96
30) Chloroform	4.04	83	135090	21.80	ug/l	97
31) Cyclohexane	3.87	56	51048	21.91	ug/l #	91
32) 1,1,1-Trichloroethane	4.28	97	89817	20.89	ug/l	98
36) 1,1-Dichloropropene	4.47	75	87044	21.48	ug/l	98
37) Ethyl Acetate	4.31	43	51874	20.91	ug/l #	75
38) Carbon Tetrachloride	4.18	117	98166	20.89	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071718\
 Data File : VF059512.D
 Acq On : 17 Jul 2018 17:34
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

apatel
 7/18/2018 3:16:04 PM

Quant Time: Jul 18 02:20:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 01:41:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	68703	22.51	ug/l	94
40) Benzene	4.82	78	166875	21.19	ug/l	100
41) Methacrylonitrile	4.93	41	22325	18.67	ug/l #	87
42) 1,2-Dichloroethane	5.13	62	109559	21.74	ug/l	98
43) Isopropyl Acetate	7.13	43	58075	19.55	ug/l	98
44) Trichloroethene	5.68	130	62231	21.92	ug/l	93
45) 1,2-Dichloropropane	6.42	63	47776	21.39	ug/l	99
46) Dibromomethane	6.26	93	40202	20.15	ug/l	96
47) Bromodichloromethane	6.56	83	106744	20.94	ug/l	96
48) Methyl methacrylate	6.89	41	37835	17.67	ug/l	94
49) 1,4-Dioxane	6.88	88	4362	450.50	ug/l	86
51) 4-Methyl-2-Pentanone	8.42	43	210460	101.00	ug/l	99
52) Toluene	7.79	92	120626	21.30	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	98819	21.93	ug/l	96
54) cis-1,3-Dichloropropene	7.48	75	98454	21.06	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	47006	20.84	ug/l	95
56) Ethyl methacrylate	8.78	69	54665	19.25	ug/l	98
57) 1,3-Dichloropropane	9.01	76	81761	21.31	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.79	63	25184	106.18	ug/l	100
59) 2-Hexanone	9.64	43	156585	95.77	ug/l	98
60) Dibromochloromethane	8.87	129	76408	20.88	ug/l	99
61) 1,2-Dibromoethane	9.15	107	56999	20.88	ug/l	98
64) Tetrachloroethene	8.31	164	64868	21.33	ug/l	97
65) Chlorobenzene	9.96	112	157303	21.68	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.08	131	70729	21.53	ug/l	88
67) Ethyl Benzene	10.05	91	289452	22.36	ug/l	96
68) m/p-Xylenes	10.28	106	203920	43.98	ug/l	97
69) o-Xylene	10.84	106	106850	22.18	ug/l	97
70) Styrene	10.92	104	157141	20.61	ug/l	96
71) Bromoform	10.90	173	45980	19.20	ug/l	90
73) Isopropylbenzene	11.24	105	315177	21.99	ug/l	100
74) N-amyl acetate	11.48	43	93690	18.42	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.79	83	61014	19.41	ug/l	88
76) 1,2,3-Trichloropropane	11.89	75	53886	20.79	ug/l	92
77) Bromobenzene	11.61	156	87218	21.59	ug/l	96
78) n-propylbenzene	11.69	91	360454	21.72	ug/l	98
79) 2-Chlorotoluene	11.82	91	220298	21.96	ug/l	100
80) 1,3,5-Trimethylbenzene	11.92	105	267567	21.71	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.97	75	21028m	17.11	ug/l	
82) 4-Chlorotoluene	12.00	91	249090	21.43	ug/l	94
83) tert-Butylbenzene	12.23	119	250315	21.70	ug/l	94
84) 1,2,4-Trimethylbenzene	12.30	105	267640	21.74	ug/l	96
85) sec-Butylbenzene	12.39	105	306884	21.06	ug/l	97
86) p-Isopropyltoluene	12.54	119	286199	22.21	ug/l	99
87) 1,3-Dichlorobenzene	12.57	146	145882	21.09	ug/l	95
88) 1,4-Dichlorobenzene	12.65	146	143120	21.38	ug/l	96
89) n-Butylbenzene	12.93	91	260418	22.01	ug/l	96
90) Hexachloroethane	13.01	117	63322	21.82	ug/l	91
91) 1,2-Dichlorobenzene	13.02	146	142593	22.11	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	15095	21.63	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071718\
Data File : VF059512.D
Acq On : 17 Jul 2018 17:34
Operator : VA/AP
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

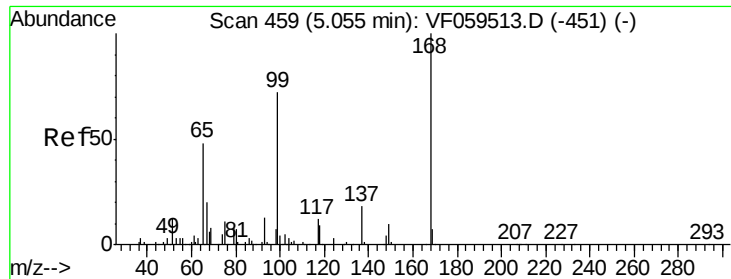
Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM

Quant Time: Jul 18 02:20:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 01:41:01 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	85270	21.15	ug/l	96
94) Hexachlorobutadiene	14.27	225	38887	21.79	ug/l	97
95) Naphthalene	14.53	128	162605	18.95	ug/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	70626	20.08	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 274671

Ion Ratio Lower Upper

168 100

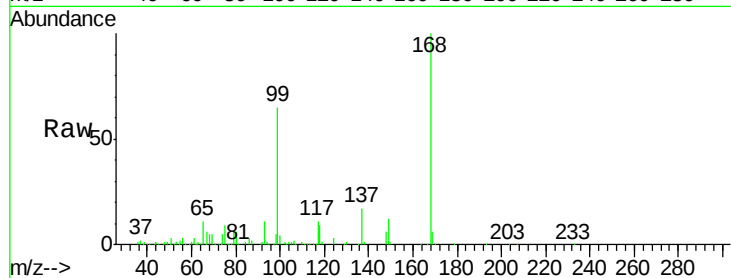
99 64.5 57.6 86.4

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

100000

80000

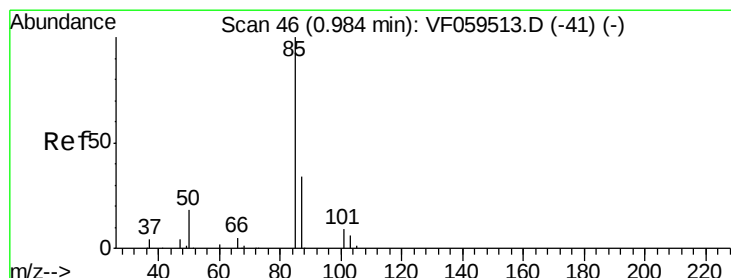
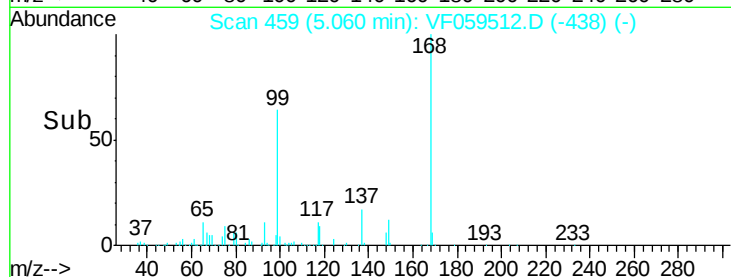
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.34 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059512.D

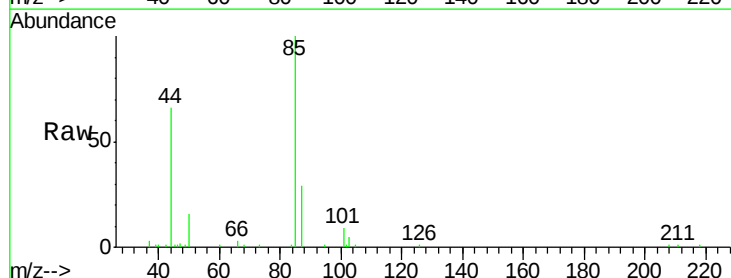
Acq: 17 Jul 2018 17:34

Tgt Ion: 85 Resp: 69844

Ion Ratio Lower Upper

85 100

87 29.1 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

20000

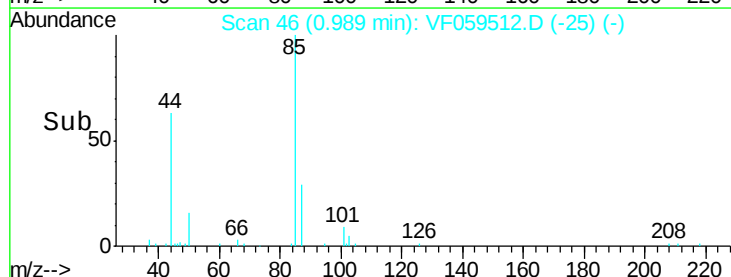
15000

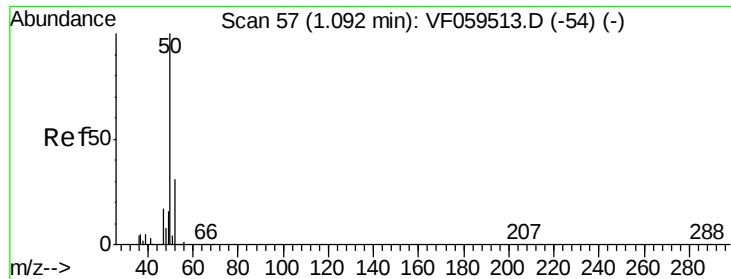
10000

5000

0

Time-->





#3

Chloromethane

Concen: 19.43 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 34247

Ion Ratio Lower Upper

50 100

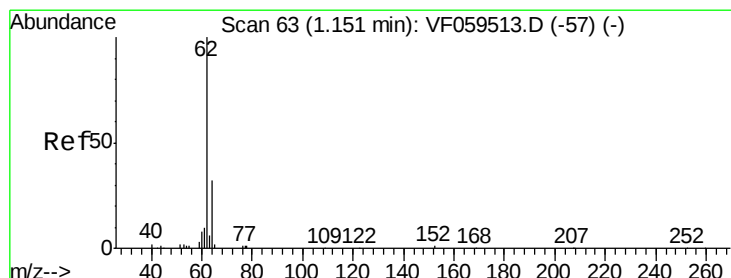
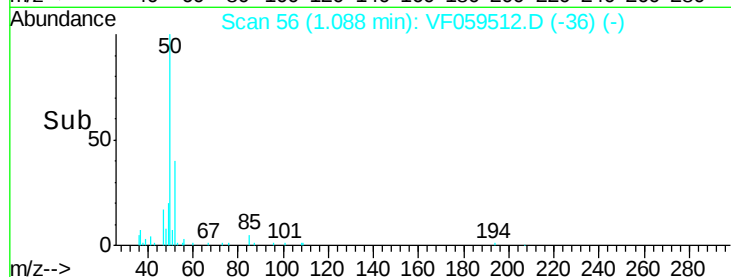
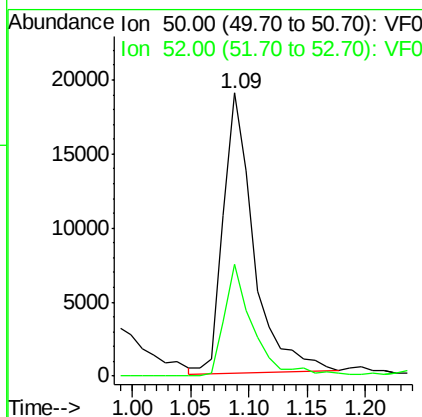
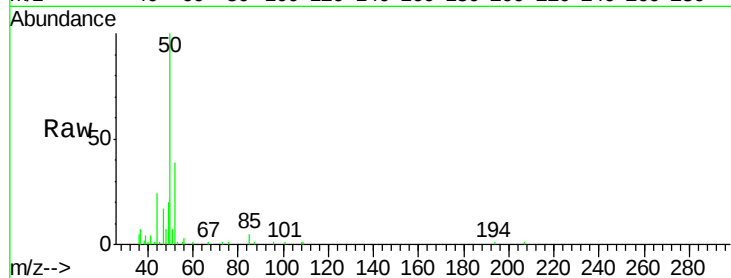
52 39.4 24.6 37.0#

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#4

Vinyl Chloride

Concen: 20.23 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059512.D

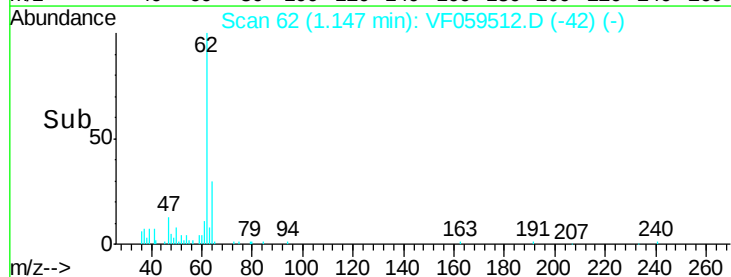
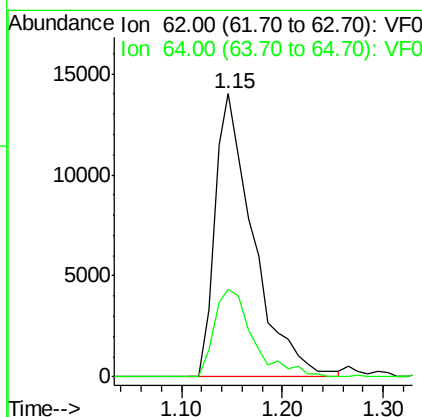
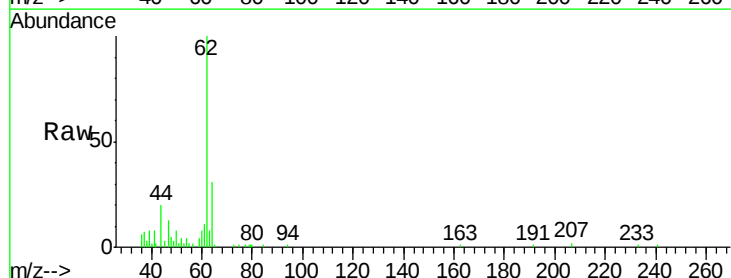
Acq: 17 Jul 2018 17:34

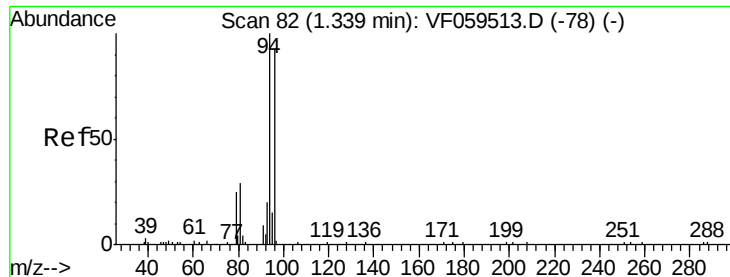
Tgt Ion: 62 Resp: 37138

Ion Ratio Lower Upper

62 100

64 30.9 25.7 38.5





#5

Bromomethane

Concen: 21.64 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 27670

Ion Ratio Lower Upper

94 100

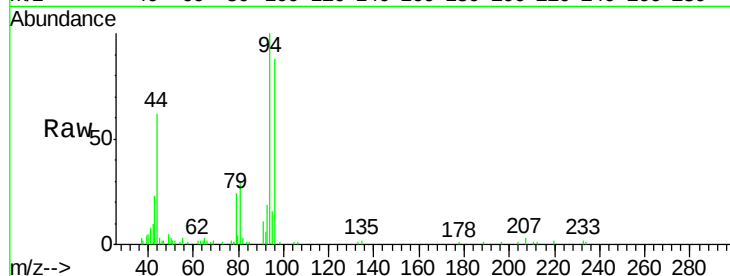
96 88.4 74.2 111.2

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

6000

4000

2000

0

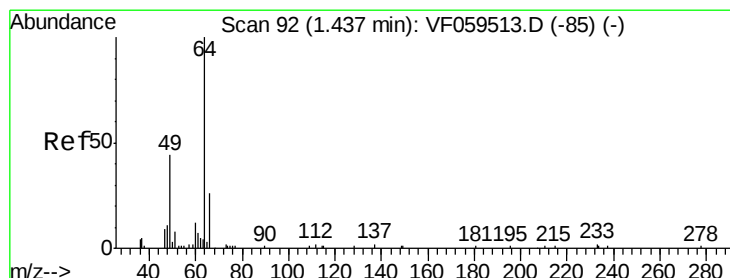
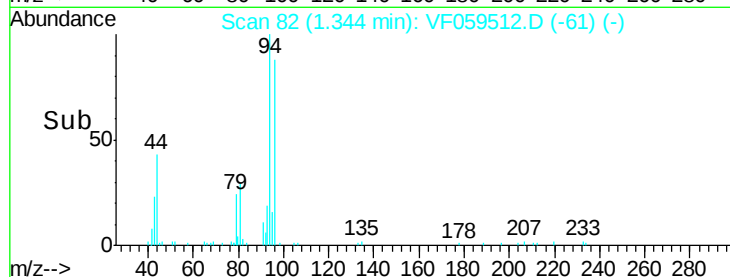
Time-->

1.20

1.30

1.40

1.50



#6

Chloroethane

Concen: 20.98 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.00 min

Lab File: VF059512.D

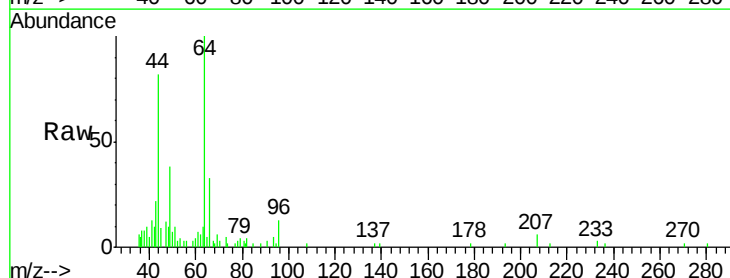
Acq: 17 Jul 2018 17:34

Tgt Ion: 64 Resp: 20155

Ion Ratio Lower Upper

64 100

66 33.4 22.9 34.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

6000

4000

2000

0

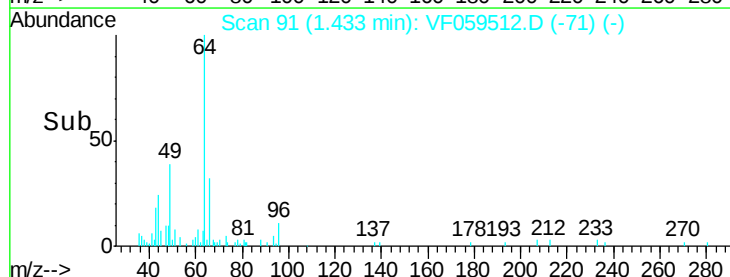
Time-->

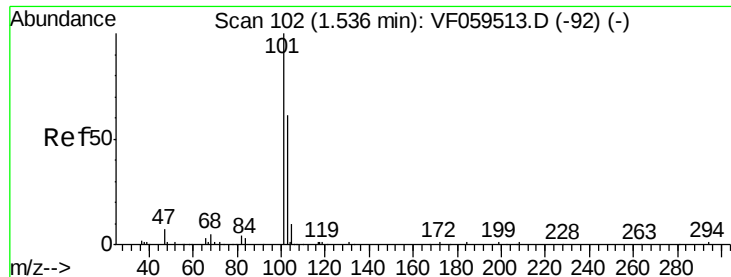
1.30

1.40

1.50

1.60





#7

Trichlorofluoromethane

Concen: 22.73 ug/l

RT: 1.51 min Scan# 99

Delta R.T. -0.02 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:101 Resp: 95751

Ion Ratio Lower Upper

101 100

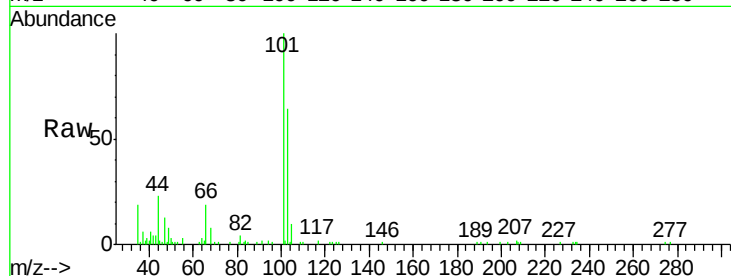
103 64.0 48.6 72.8

Manual Integrations

APPROVED

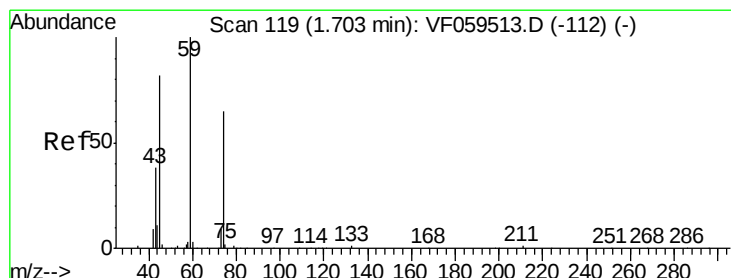
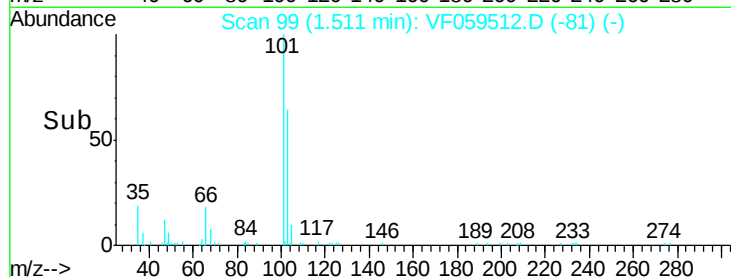
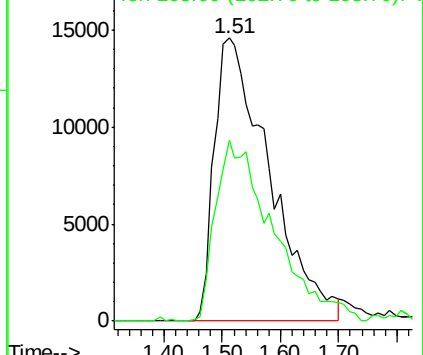
apatel

7/18/2018 3:16:04 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 23.76 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.01 min

Lab File: VF059512.D

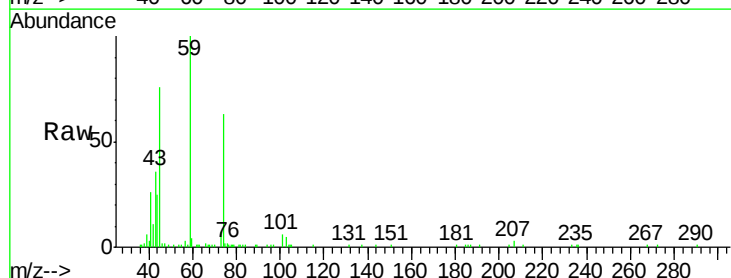
Acq: 17 Jul 2018 17:34

Tgt Ion: 74 Resp: 20054

Ion Ratio Lower Upper

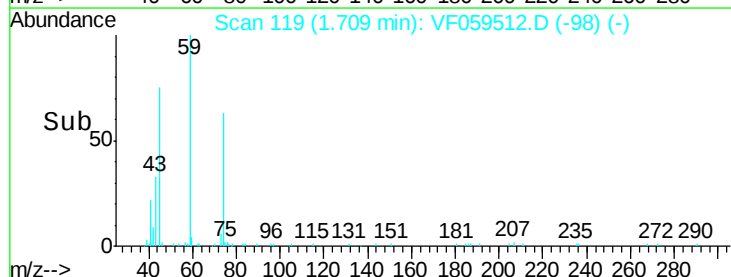
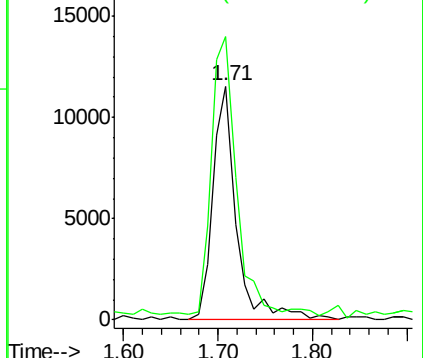
74 100

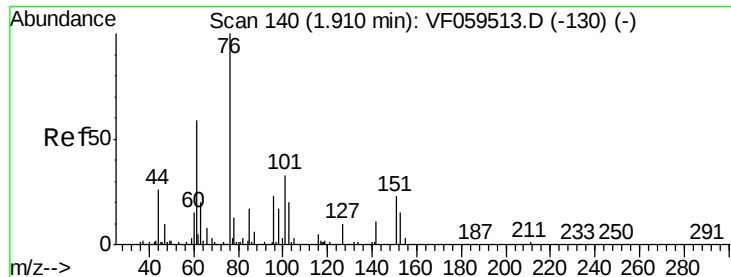
45 121.1 63.6 190.9



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.69 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

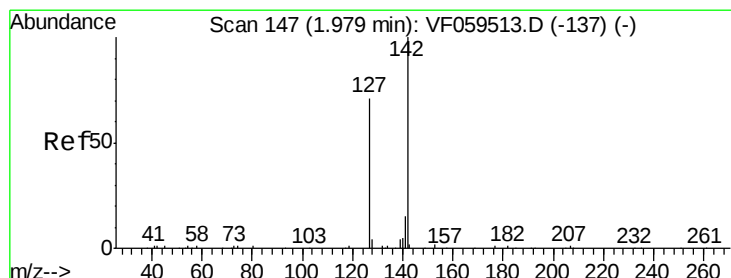
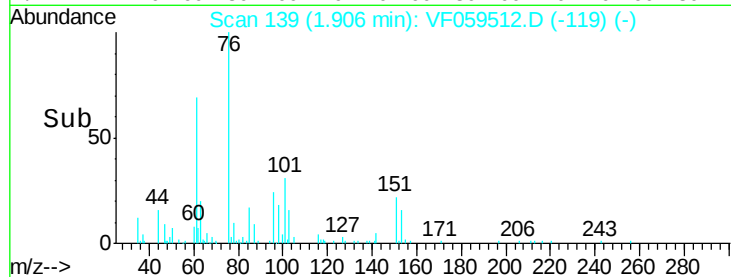
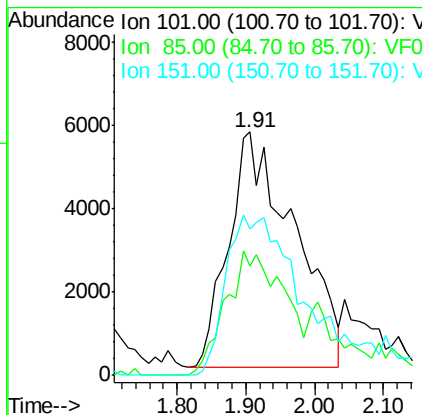
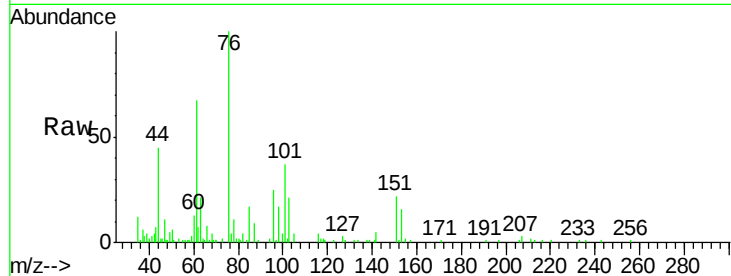
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	37404
Ion Ratio	Lower	Upper	
101	100		
85	44.9	39.8	59.6
151	60.2	54.2	81.2

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#10

Methyl Iodide

Concen: 20.28 ug/l

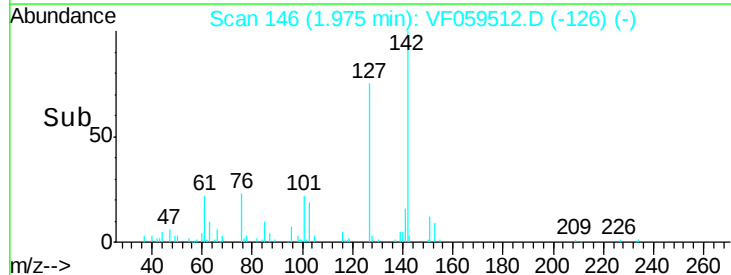
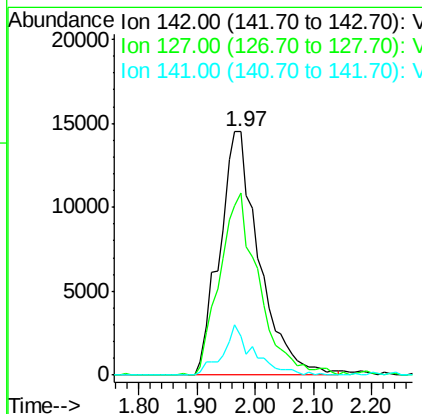
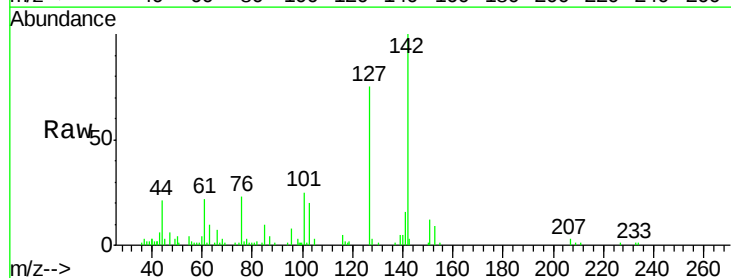
RT: 1.97 min Scan# 146

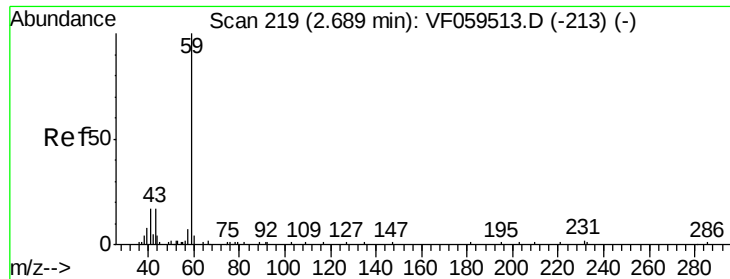
Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	142	Resp:	68414
Ion Ratio	Lower	Upper	
142	100		
127	74.8	56.4	84.6
141	15.8	12.0	18.0





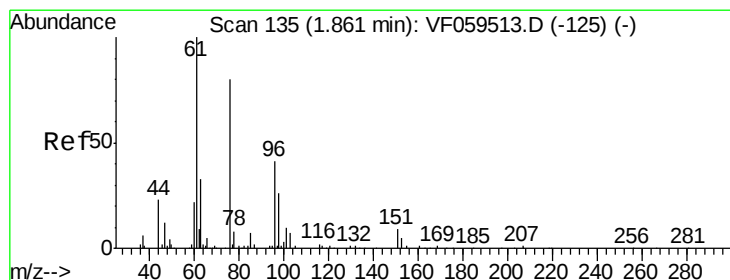
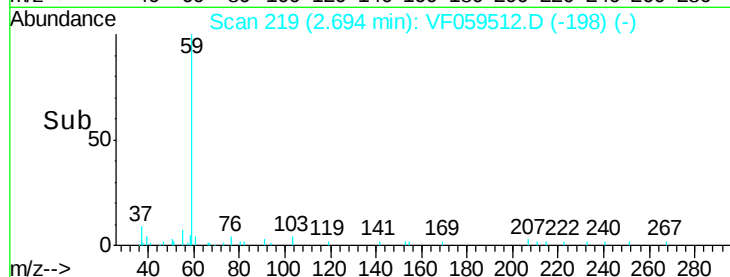
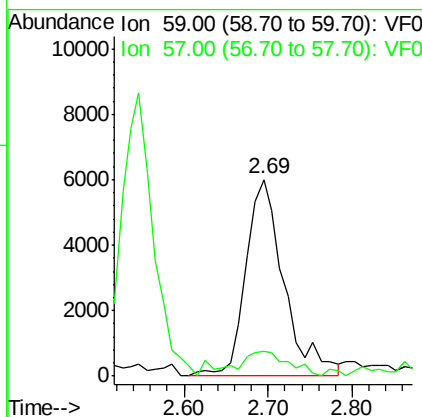
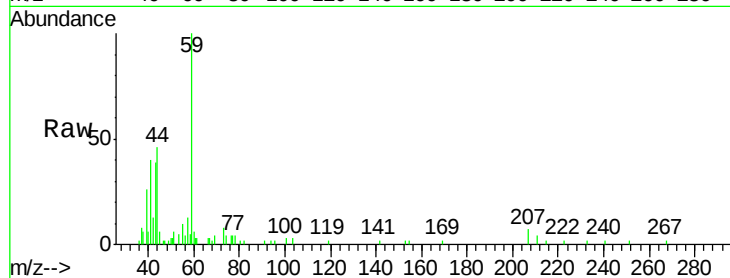
#11
Tert butyl alcohol
Concen: 98.95 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.8	7.7	11.5#

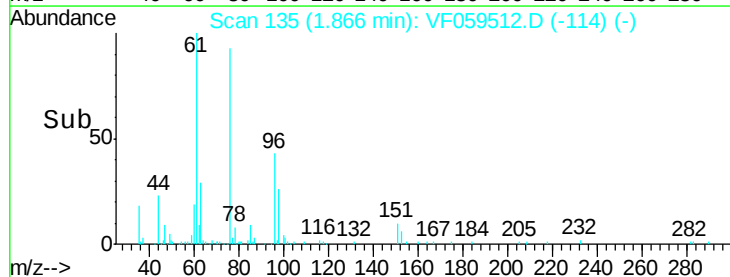
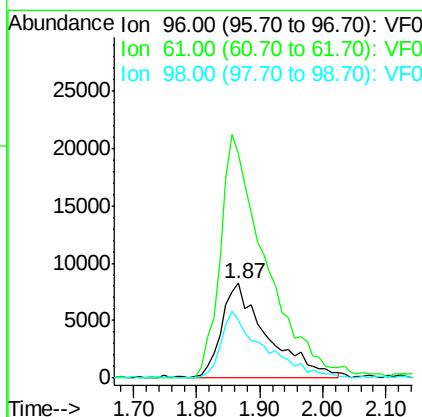
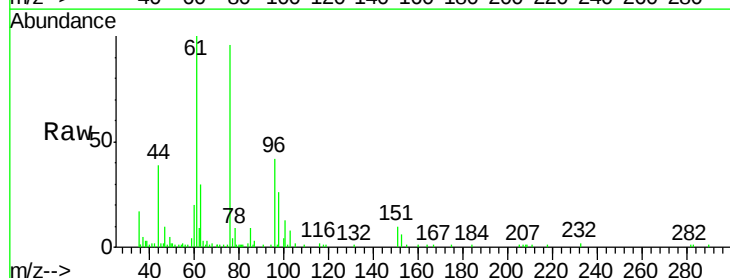
Manual Integrations
APPROVED

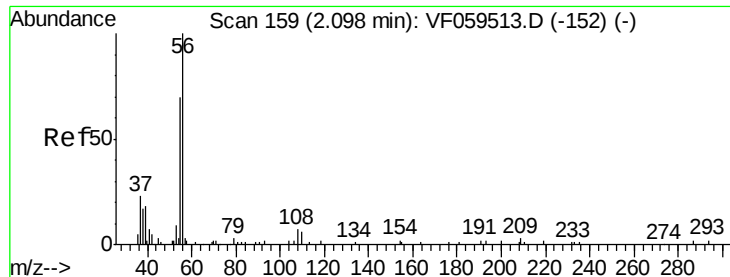
apatel
7/18/2018 3:16:04 PM



#12
1,1-Dichloroethene
Concen: 21.60 ug/l
RT: 1.87 min Scan# 135
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	236.9	194.3	291.5
98	60.5	50.3	75.5





#13

Acrolein

Concen: 107.05 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 11500

Ion Ratio Lower Upper

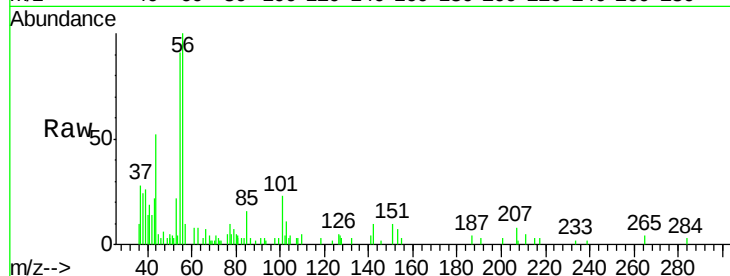
56 100

55 90.7 59.4 89.2#

Manual Integrations
APPROVED

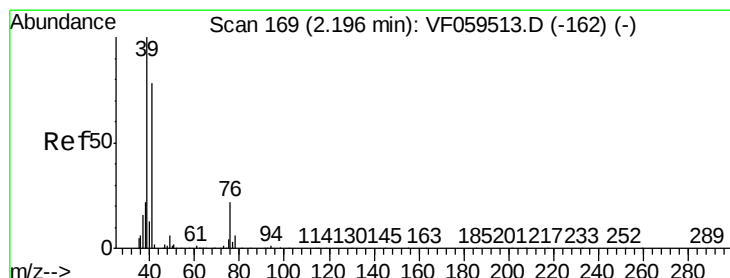
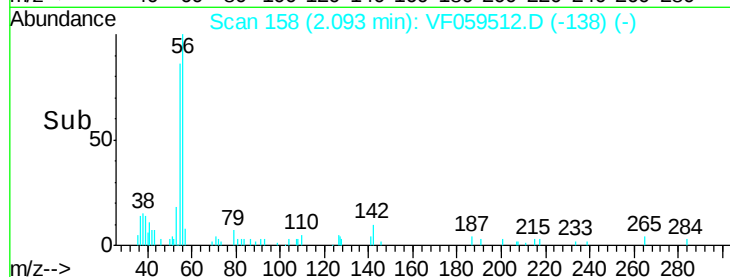
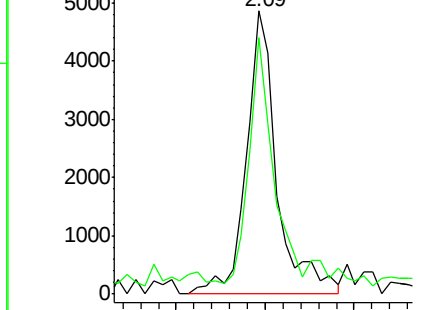
apatel

7/18/2018 3:16:04 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 20.13 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

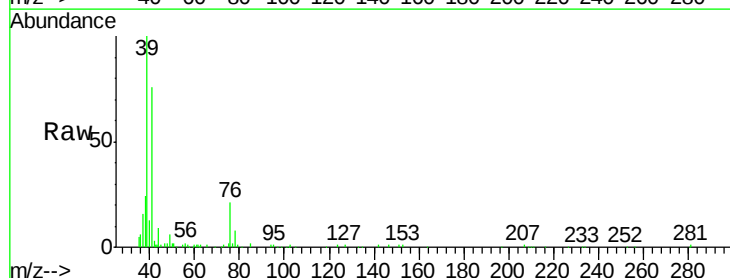
Tgt Ion: 41 Resp: 51024

Ion Ratio Lower Upper

41 100

39 131.7 103.0 154.4

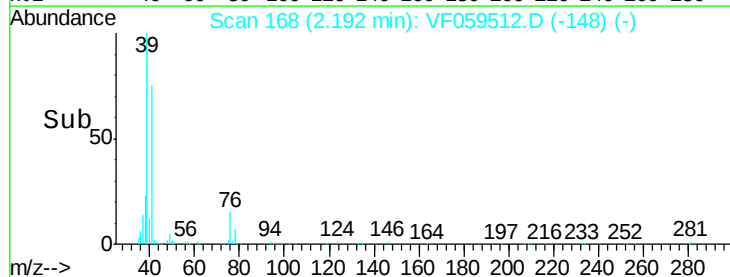
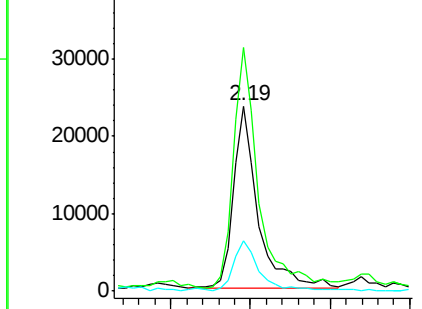
76 27.3 22.6 34.0

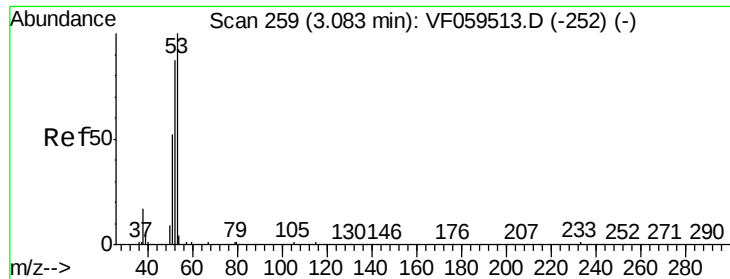


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 104.93 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

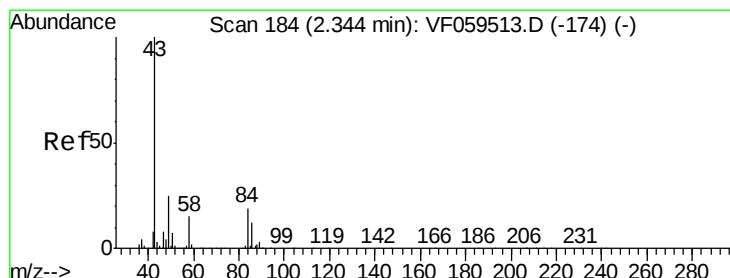
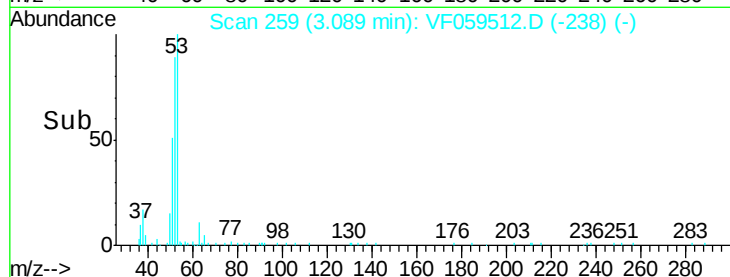
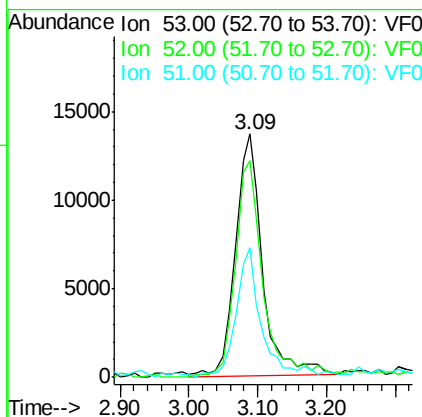
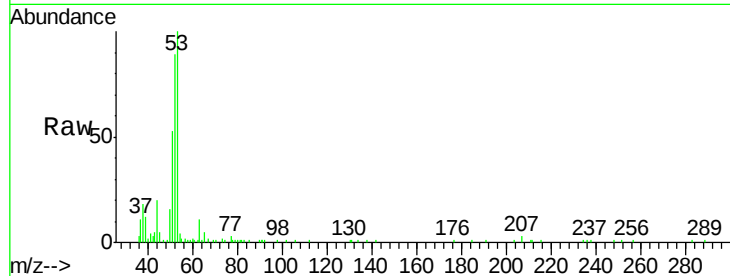
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	37233
Ion	Ratio	Lower	Upper
53	100		
52	88.9	70.1	105.1
51	53.2	42.5	63.7

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#16

Acetone

Concen: 98.37 ug/l

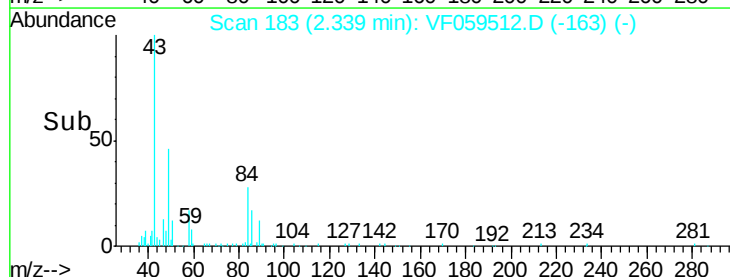
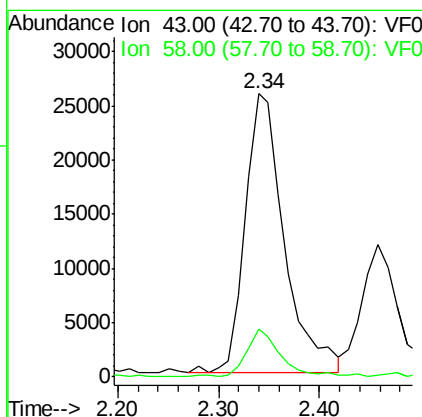
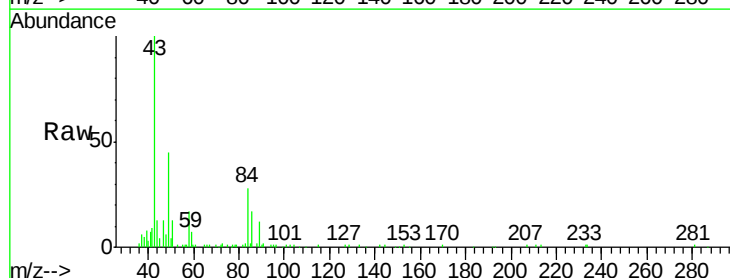
RT: 2.34 min Scan# 183

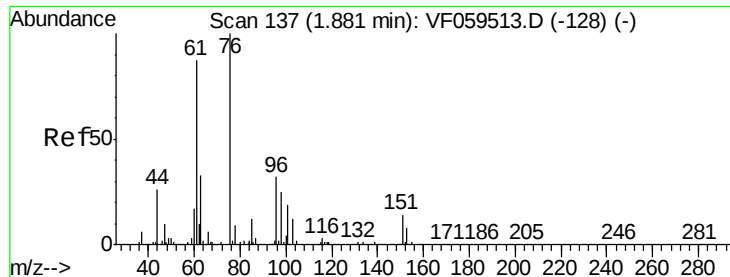
Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	43	Resp:	69274
Ion	Ratio	Lower	Upper
43	100		
58	16.7	11.8	17.6





#17

Carbon Disulfide

Concen: 21.83 ug/l

RT: 1.88 min Scan# 136

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 114564

Ion Ratio Lower Upper

76 100

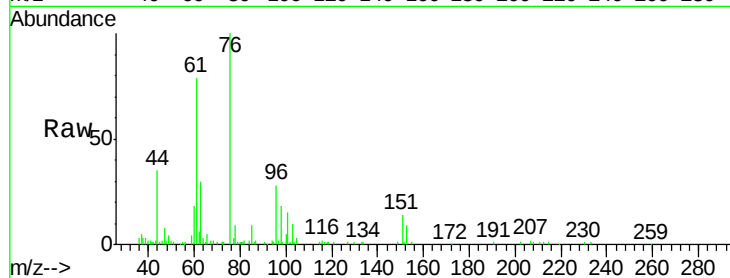
78 8.6 7.8 11.6

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

25000

20000

15000

10000

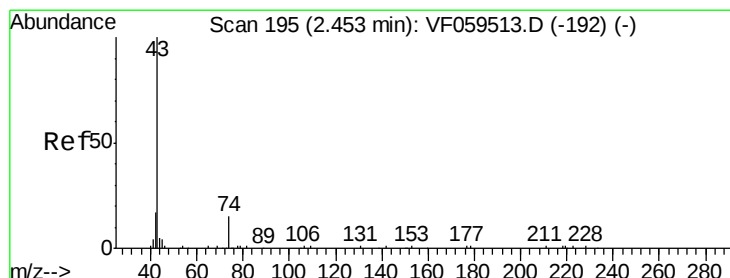
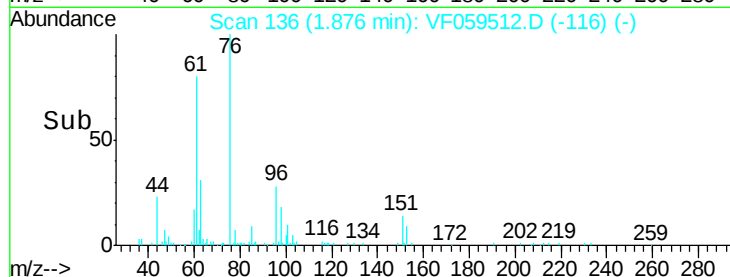
5000

0

Time-->

1.70 1.80 1.90 2.00 2.10

1.88



#18

Methyl Acetate

Concen: 17.50 ug/l m

RT: 2.46 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059512.D

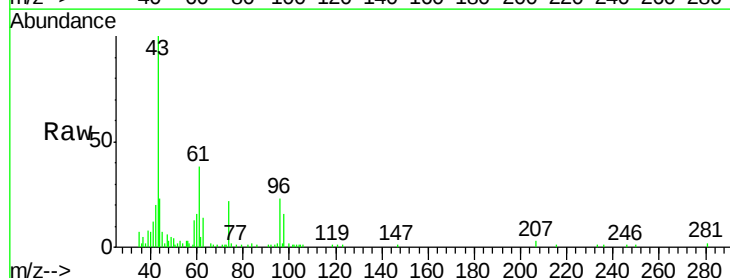
Acq: 17 Jul 2018 17:34

Tgt Ion: 43 Resp: 25303

Ion Ratio Lower Upper

43 100

74 22.2 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

20000

15000

10000

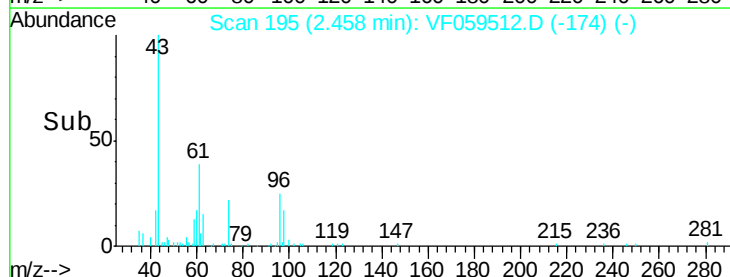
5000

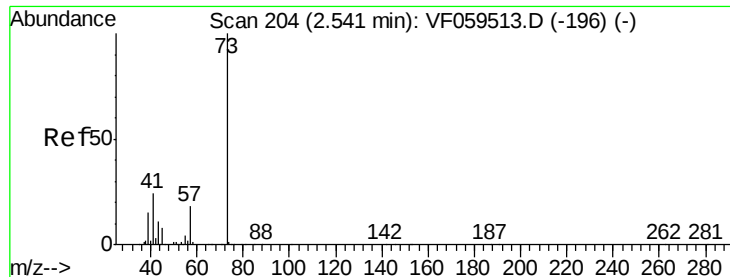
0

Time-->

2.40 2.45 2.50

2.46





#19

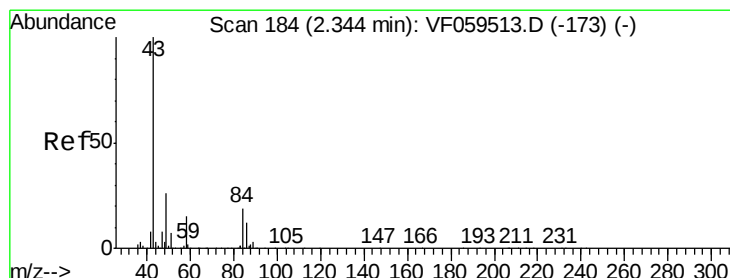
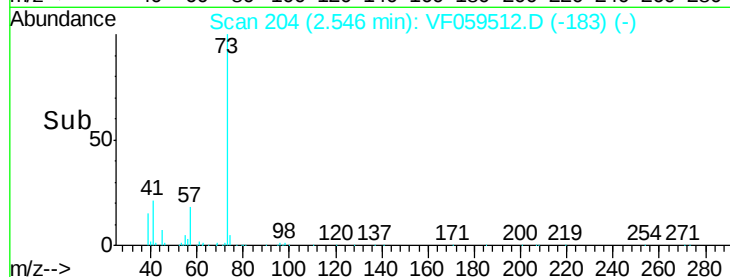
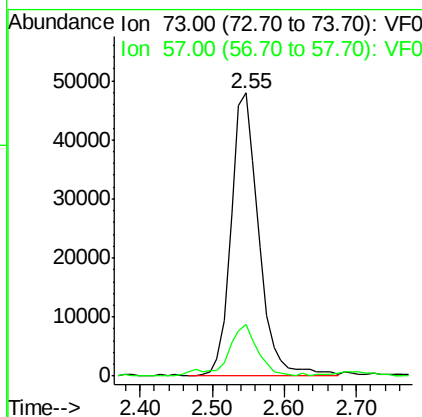
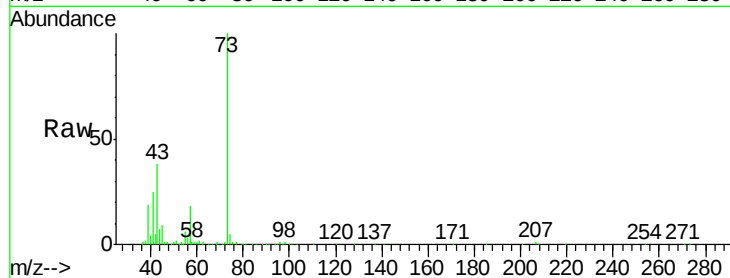
Methyl tert-butyl Ether
 Concen: 20.41 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampled :
 VSTDIC020

Tot Ion	73	Resp	129028
Ion Ratio	Lower	Upper	
73	100		
57	18.0	14.3	21.5

Manual Integrations
 APPROVED

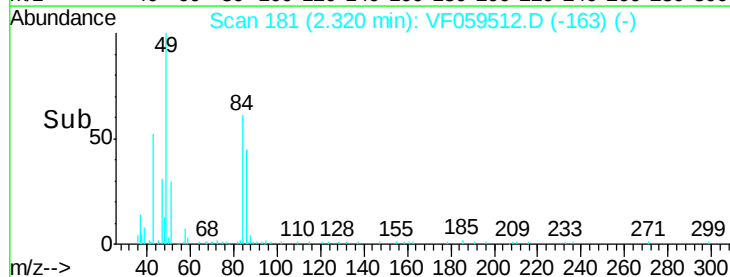
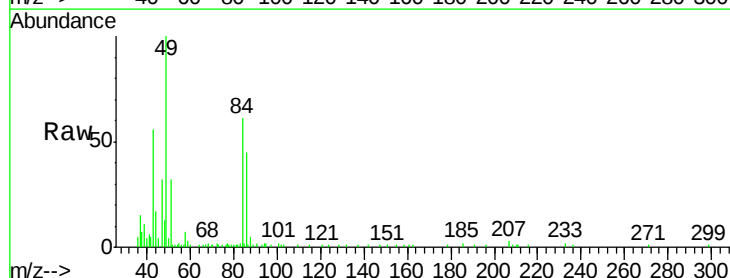
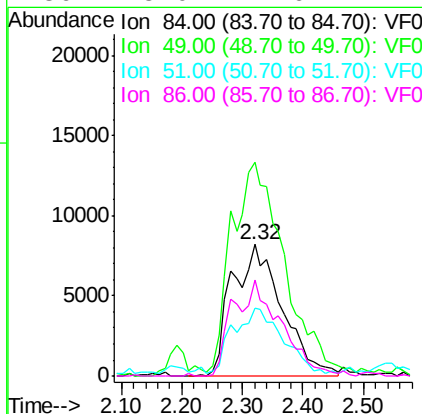
apatel
 7/18/2018 3:16:04 PM

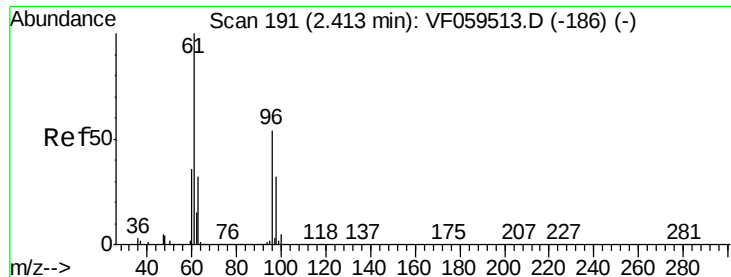


#20

Methylene Chloride
 Concen: 18.70 ug/l
 RT: 2.32 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	84	Resp	47148
Ion Ratio	Lower	Upper	
84	100		
49	162.7	109.4	164.2
51	52.2	30.5	45.7#
86	75.0	47.6	71.4#





#21

trans-1,2-Dichloroethene

Concen: 22.39 ug/l

RT: 2.42 min Scan# 191

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

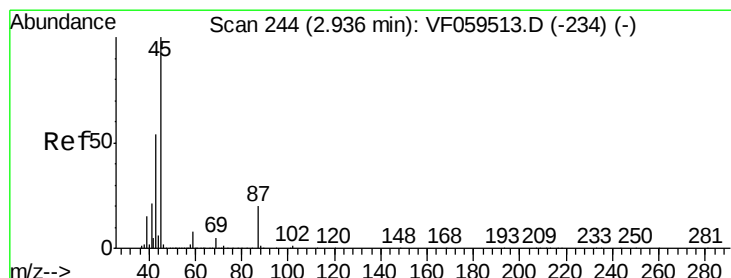
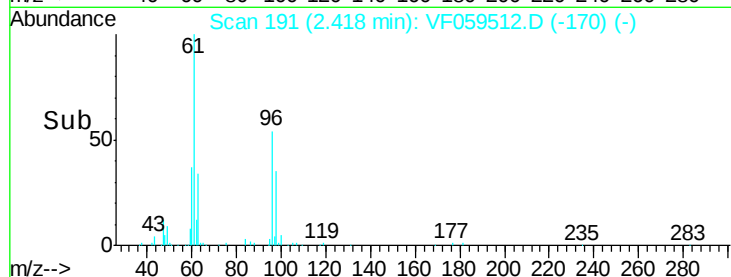
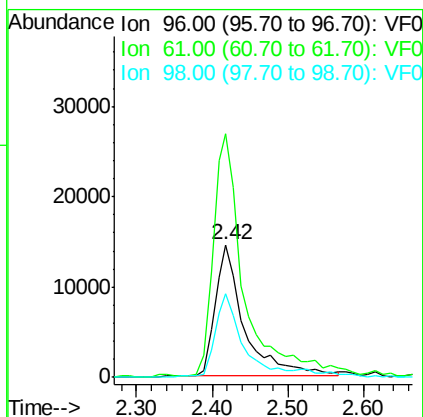
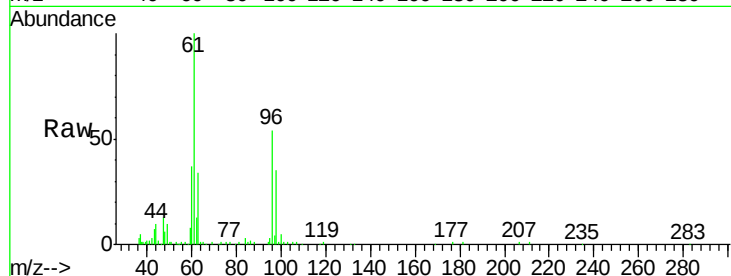
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	39427
Ion	Ratio	Lower	Upper
96	100		
61	183.6	149.8	224.8
98	63.5	47.8	71.8

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#22

Diisopropyl ether

Concen: 20.61 ug/l

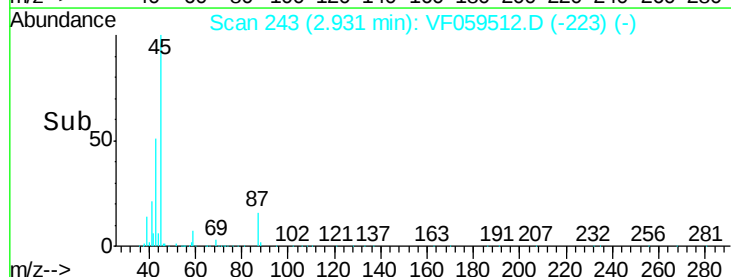
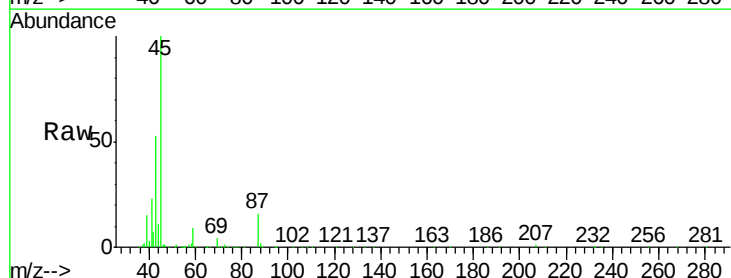
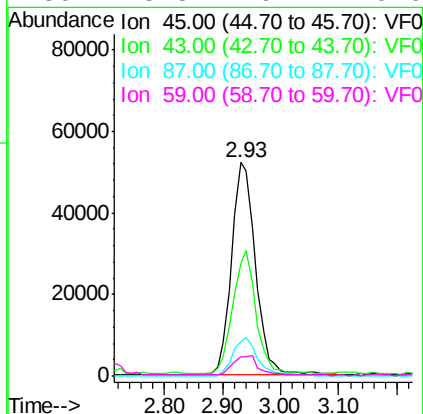
RT: 2.93 min Scan# 243

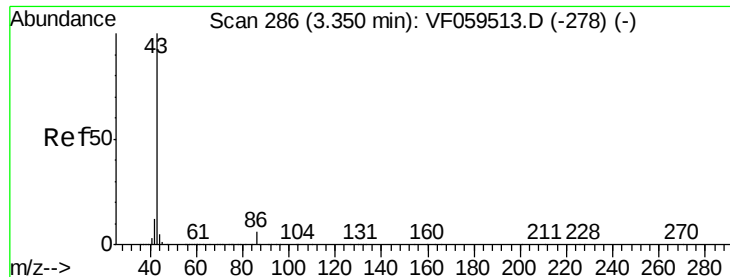
Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	45	Resp:	149771
Ion	Ratio	Lower	Upper
45	100		
43	52.6	43.6	65.4
87	16.0	15.6	23.4
59	8.8	6.4	9.6





#23

Vinyl Acetate

Concen: 105.18 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 444208

Ion Ratio Lower Upper

43 100

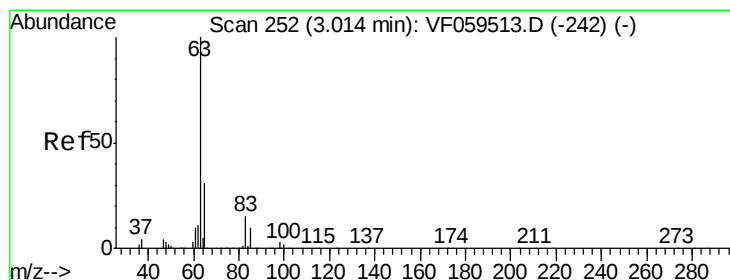
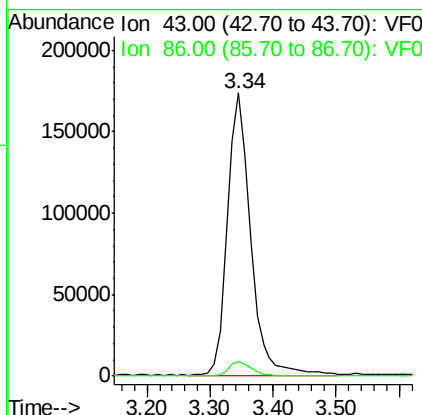
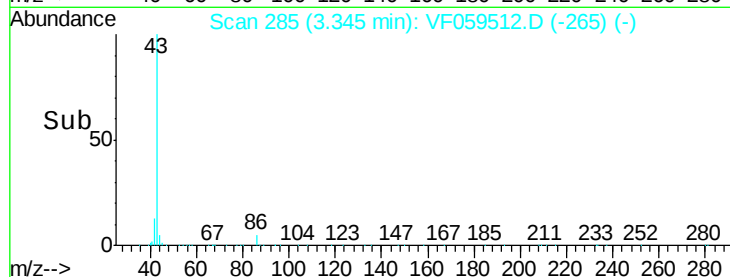
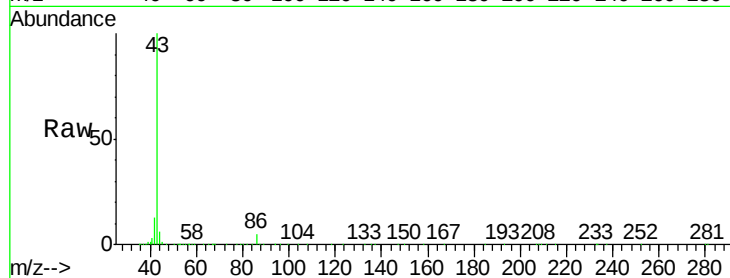
86 5.4 4.4 6.6

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#24

1,1-Dichloroethane

Concen: 21.89 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

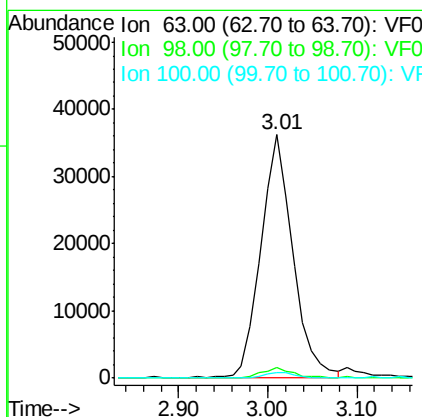
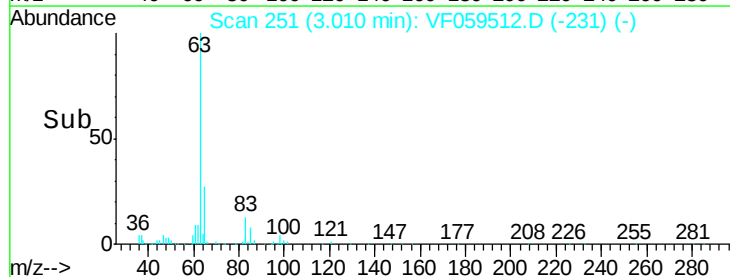
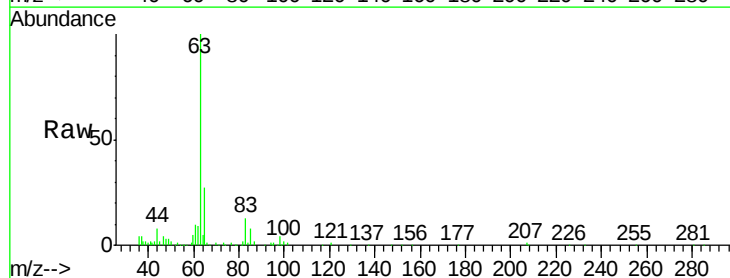
Tgt Ion: 63 Resp: 90296

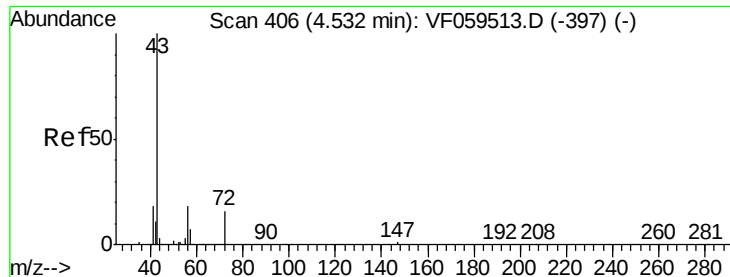
Ion Ratio Lower Upper

63 100

98 4.3 1.8 5.4

100 2.0 1.3 3.8





#25

2-Butanone

Concen: 96.90 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 99190

Ion Ratio Lower Upper

43 100

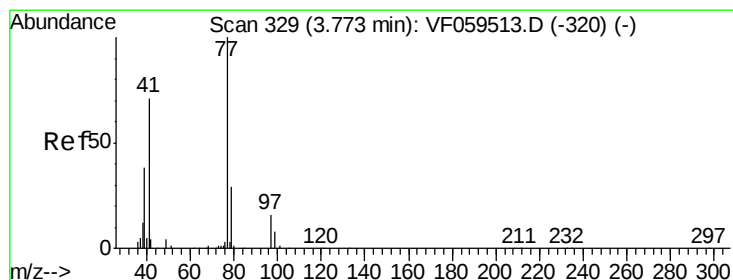
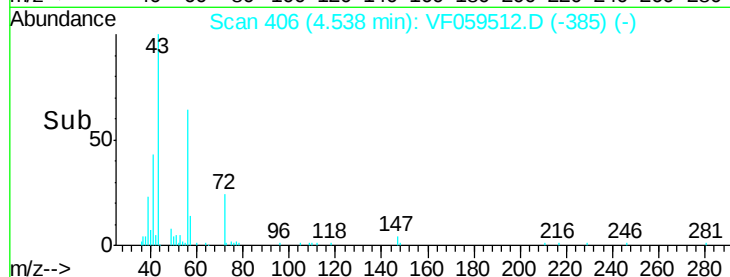
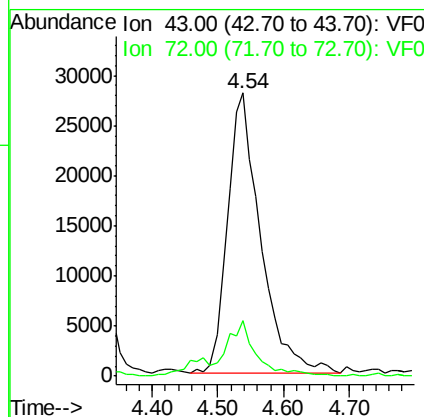
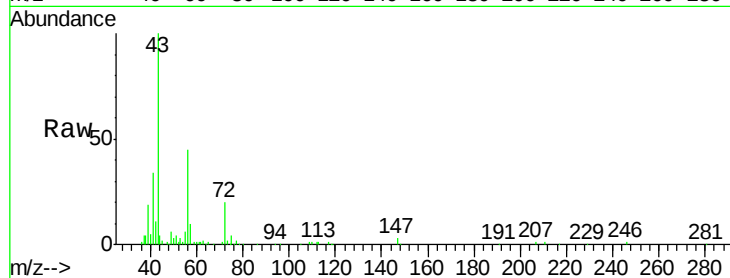
72 19.6 14.2 21.4

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#26

2,2-Dichloropropane

Concen: 21.04 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.01 min

Lab File: VF059512.D

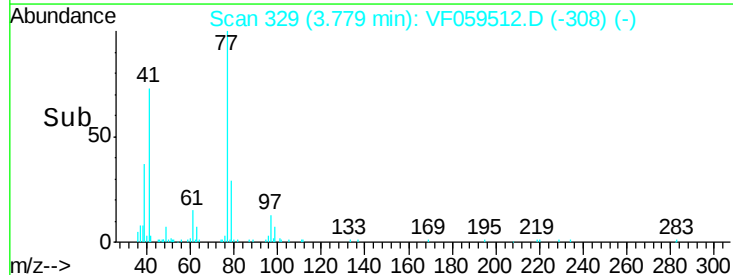
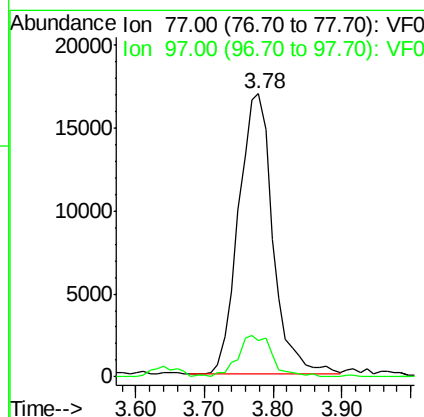
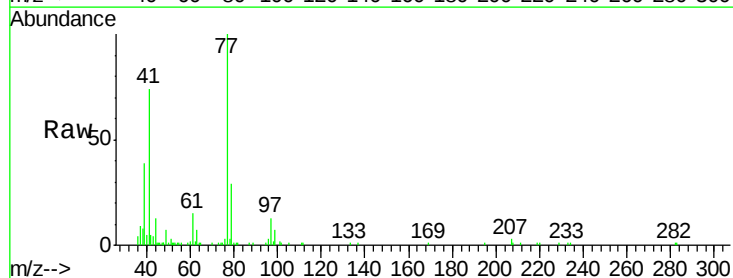
Acq: 17 Jul 2018 17:34

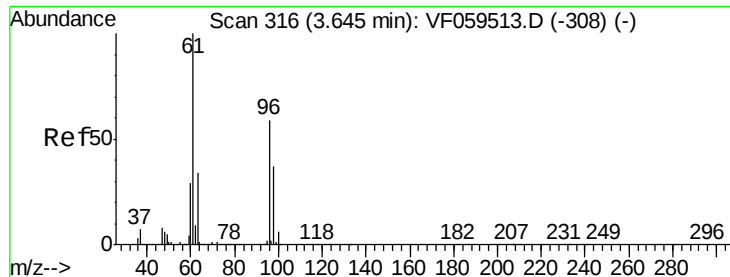
Tgt Ion: 77 Resp: 58249

Ion Ratio Lower Upper

77 100

97 13.0 8.1 24.3





#27

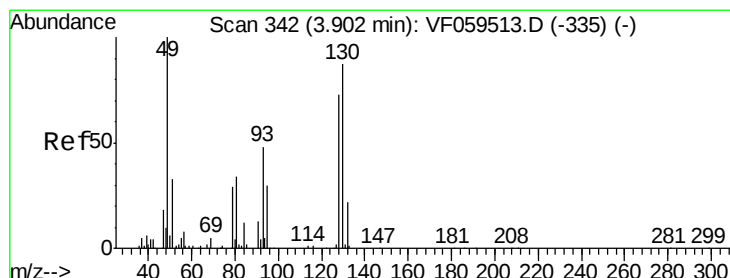
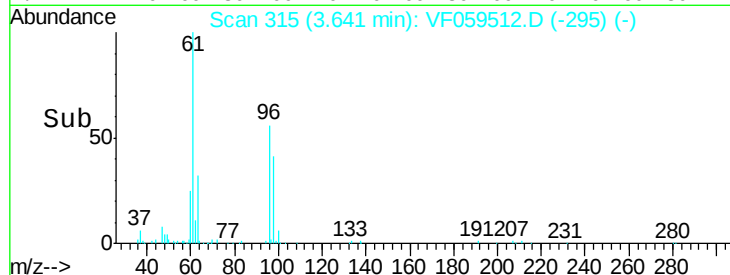
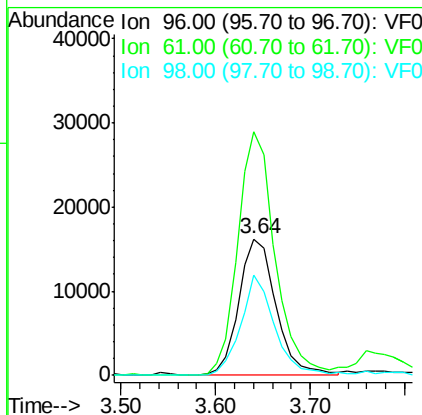
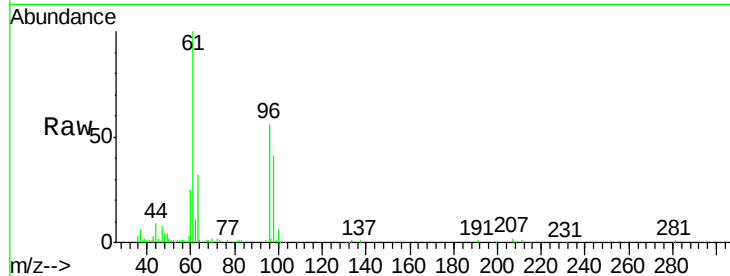
cis-1,2-Dichloroethene
Concen: 18.40 ug/l
RT: 3.64 min Scan# 315
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	178.1	0.0	339.0
98	73.0	0.0	125.4

Manual Integrations
APPROVED

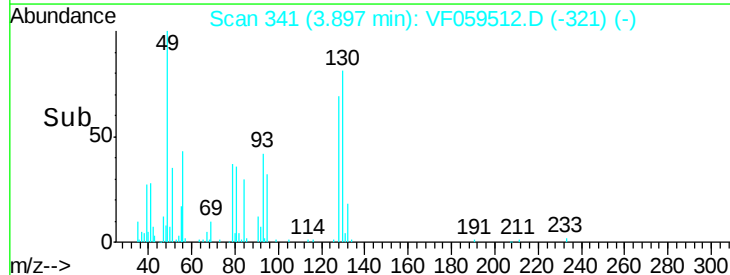
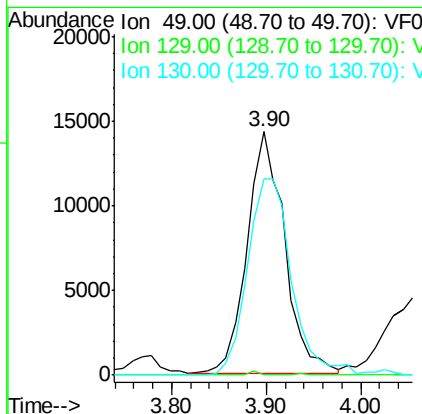
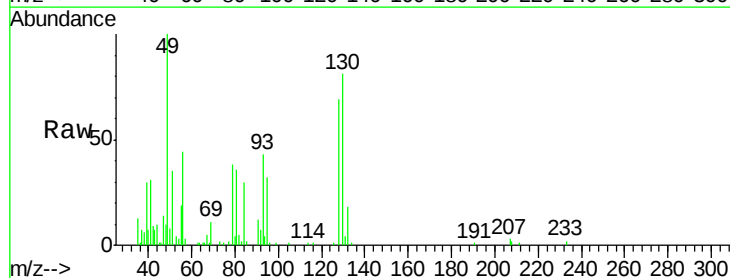
apatel
7/18/2018 3:16:04 PM

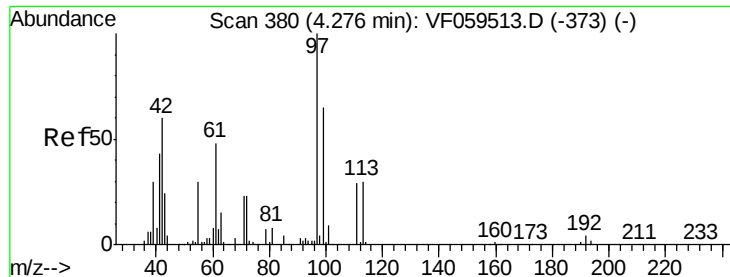


#28

Bromochloromethane
Concen: 20.49 ug/l
RT: 3.90 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	80.6	69.8	104.6





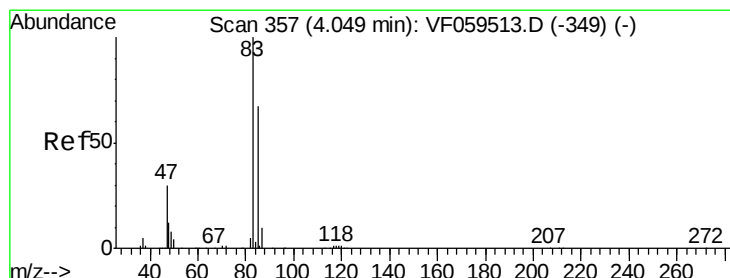
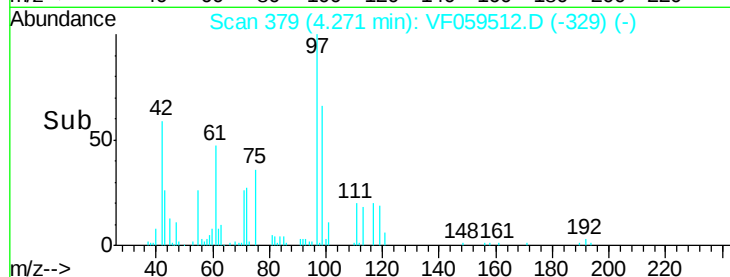
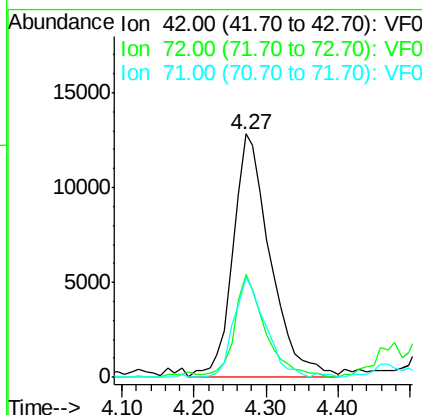
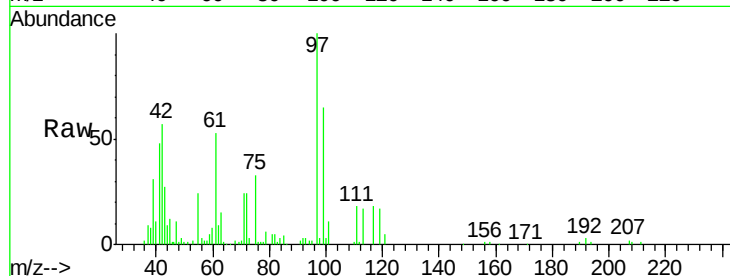
#29
Tetrahydrofuran
Concen: 105.53 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.7	28.7	43.1
71	34.6	30.8	46.2

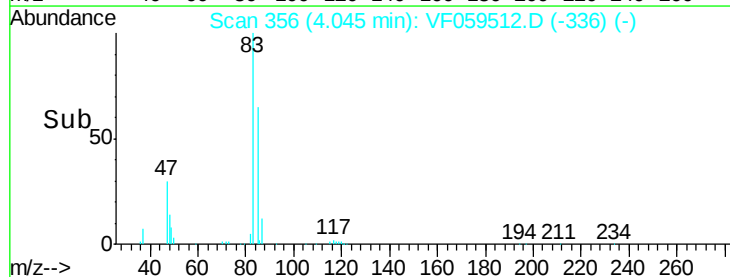
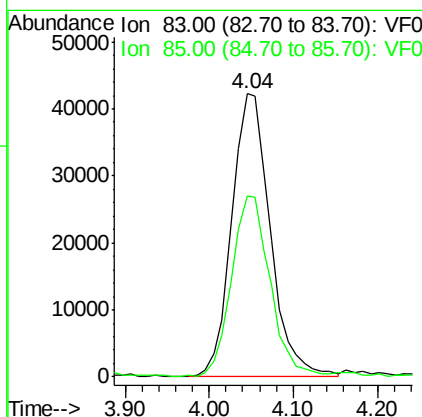
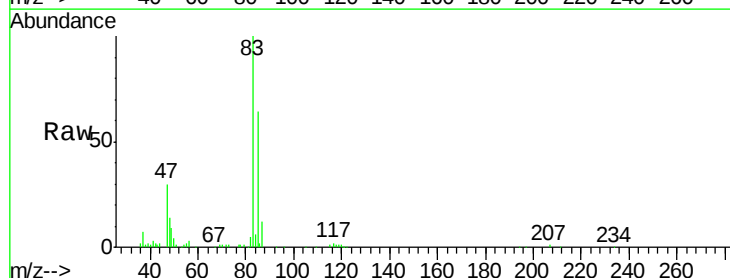
Manual Integrations
APPROVED

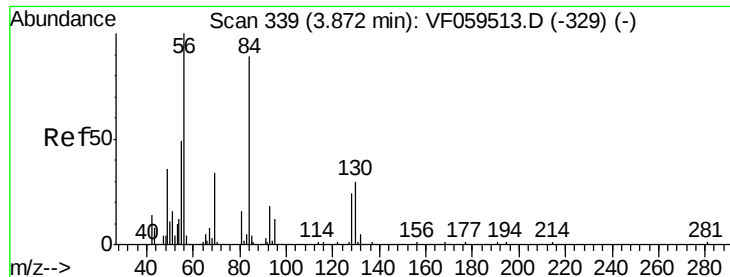
apatel
7/18/2018 3:16:04 PM



#30
Chloroform
Concen: 21.80 ug/l
RT: 4.04 min Scan# 356
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.2	79.8





#31

Cyclohexane

Concen: 21.91 ug/l

RT: 3.87 min Scan# 338

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

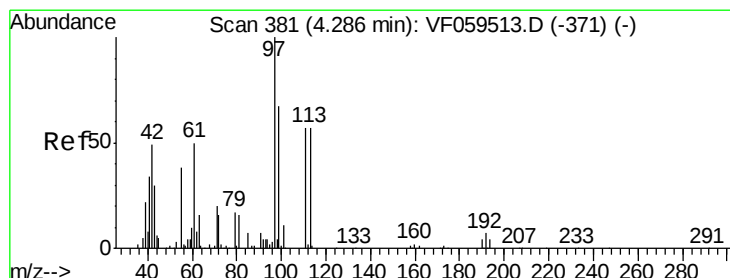
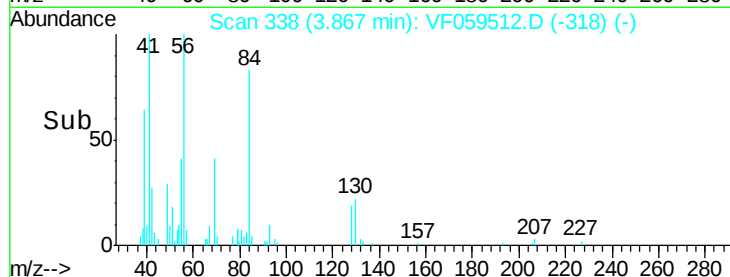
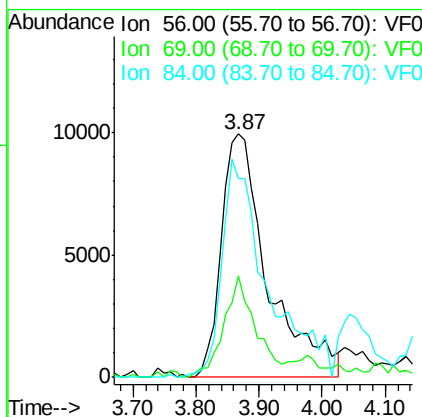
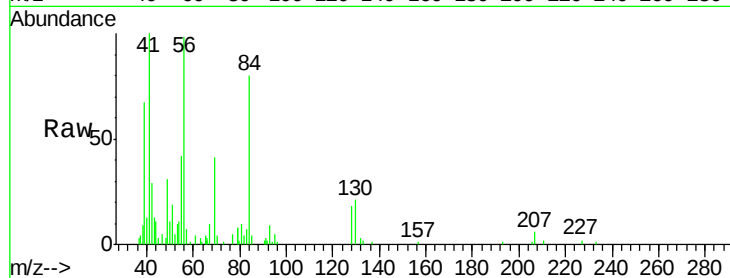
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	51048
Ion	Ratio	Lower	Upper
56	100		
69	41.8	27.6	41.4#
84	81.8	71.4	107.2

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#32

1,1,1-Trichloroethane

Concen: 20.89 ug/l

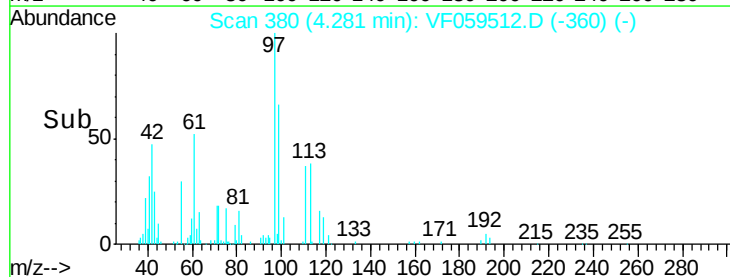
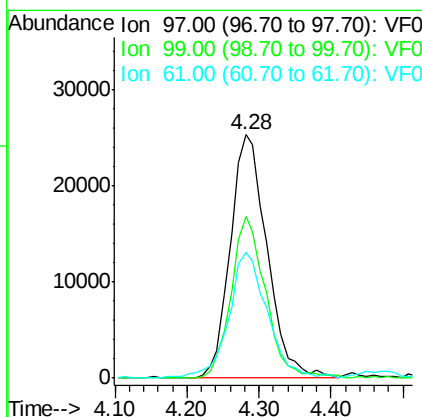
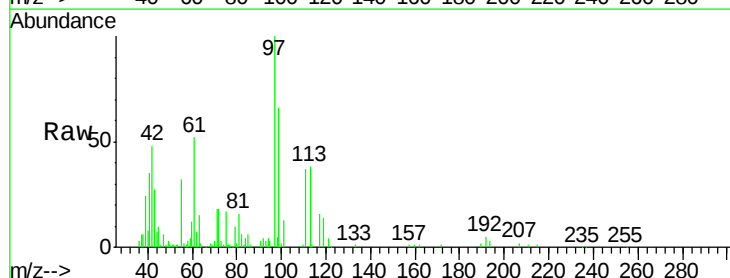
RT: 4.28 min Scan# 380

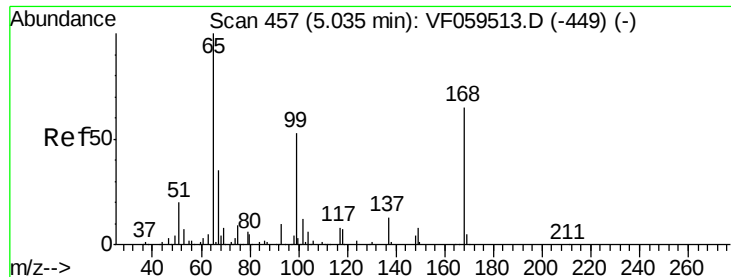
Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	97	Resp:	89817
Ion	Ratio	Lower	Upper
97	100		
99	66.4	53.5	80.3
61	51.7	39.7	59.5





#33

1,2-Dichloroethane-d4

Concen: 21.46 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tot Ion: 65 Resp: 88981

Ion Ratio Lower Upper

65 100

67 40.4 0.0 91.2

Instrument :

MSVOA_F

ClientSampleId :

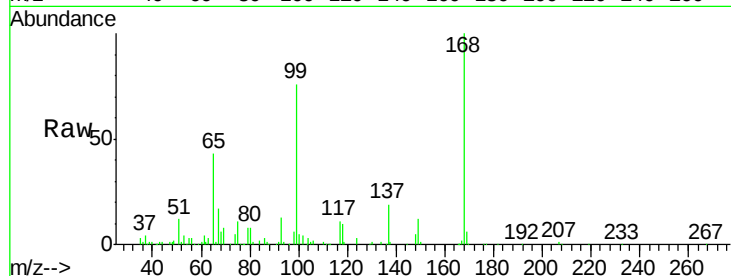
VSTDIC020

Manual Integrations

APPROVED

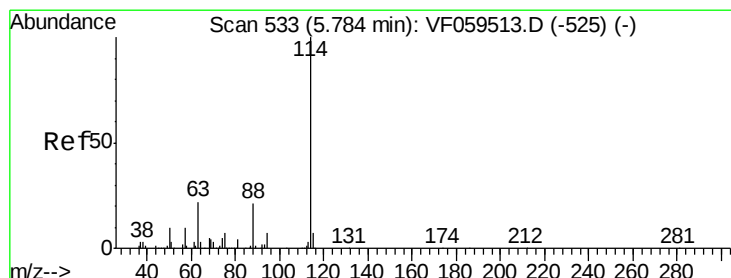
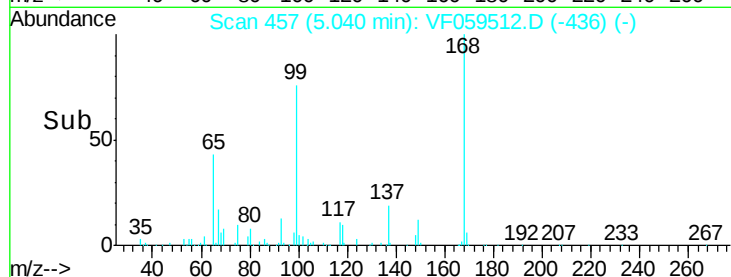
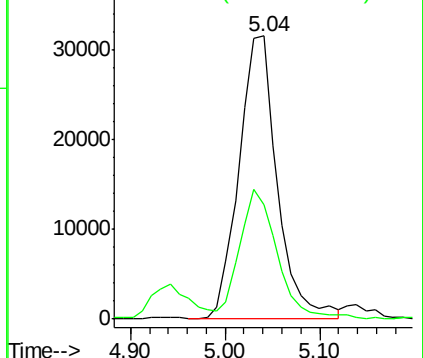
apatel

7/18/2018 3:16:04 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

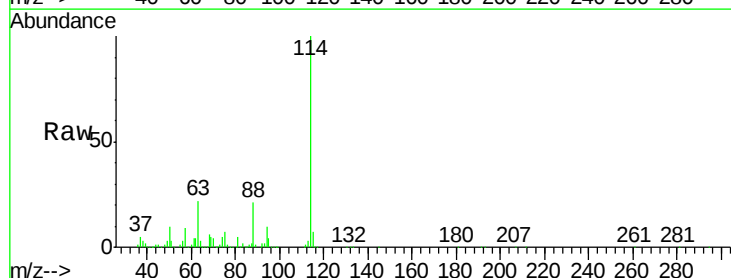
Tgt Ion: 114 Resp: 397936

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.8

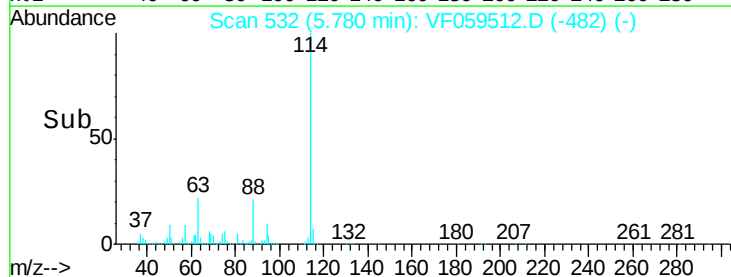
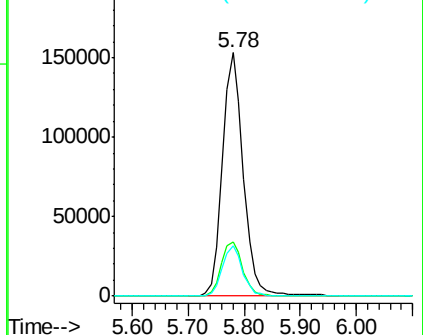
88 20.9 0.0 42.6

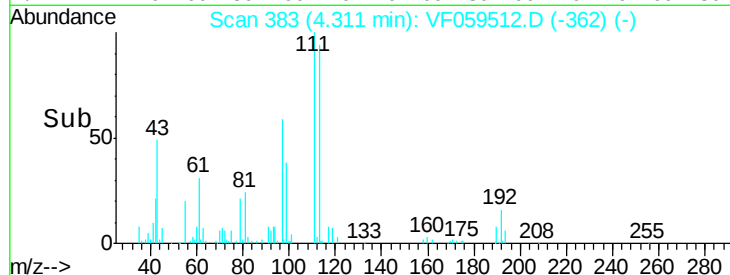
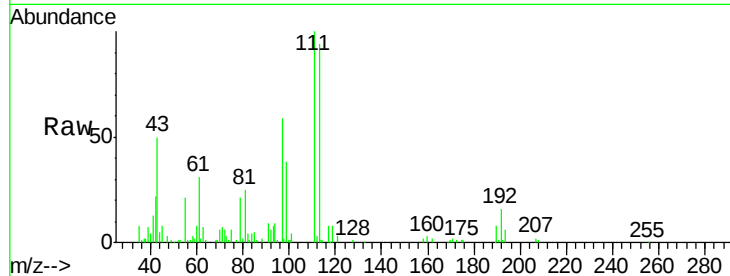
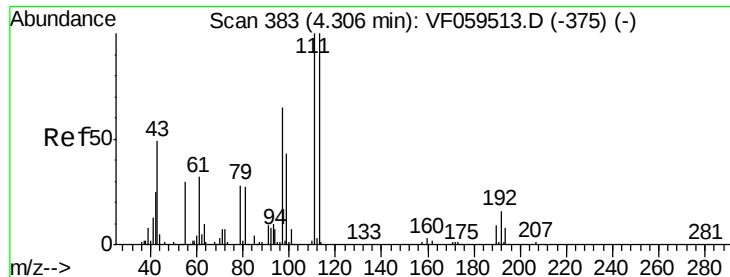


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





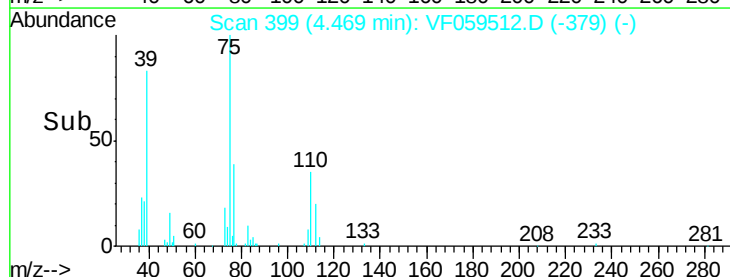
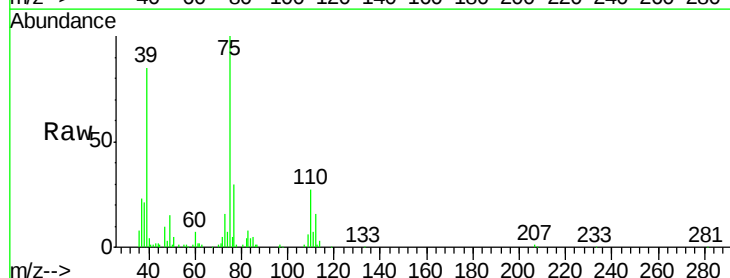
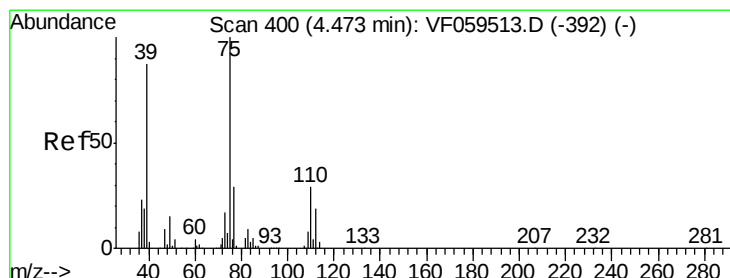
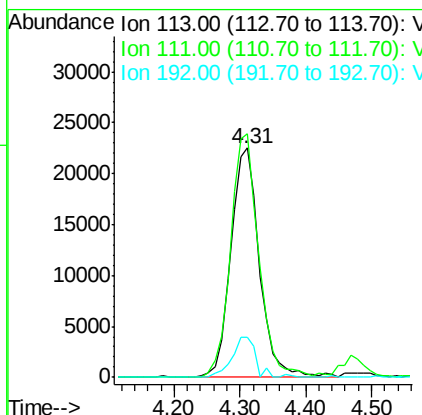
#35
Dibromofluoromethane
Concen: 19.93 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tot Ion	Ratio	Resp	Lower	Upper
113	100	68869		
111	106.3		80.3	120.5
192	17.3		13.1	19.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

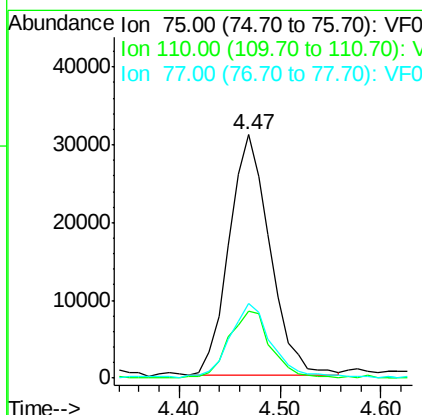
Manual Integrations
APPROVED

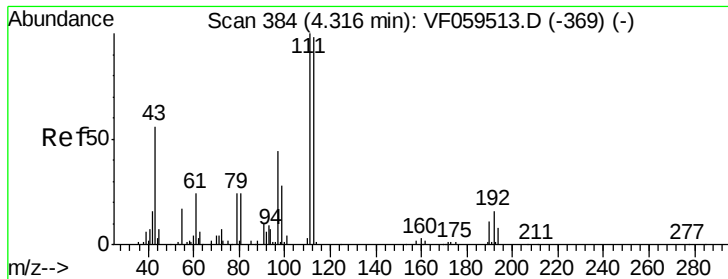
apatel
7/18/2018 3:16:04 PM



#36
1,1-Dichloropropene
Concen: 21.48 ug/l
RT: 4.47 min Scan# 399
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	87044		
110	27.3		14.6	43.8
77	30.4		23.7	35.5





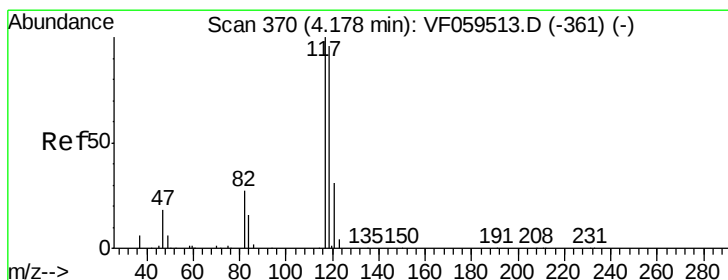
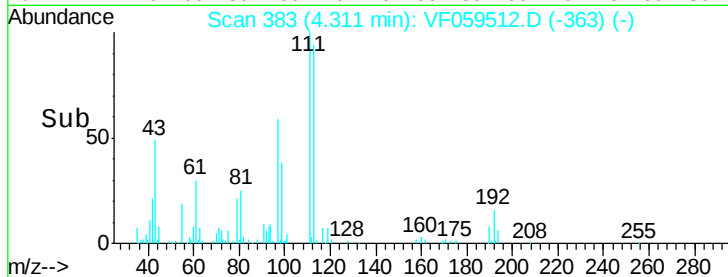
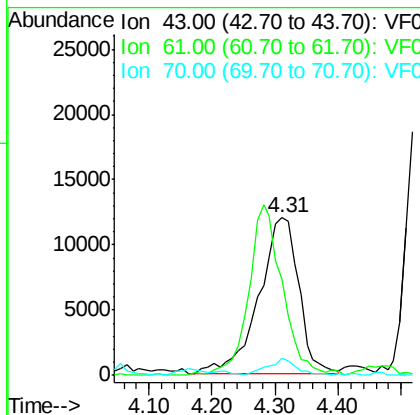
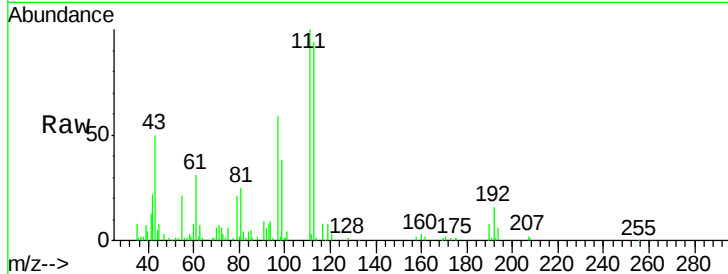
#37
Ethyl Acetate
Concen: 20.91 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	43	61	70
Resp	51874		
Ratio	100	61.0	10.9
Lower		33.7	7.4
Upper		50.5#	11.0

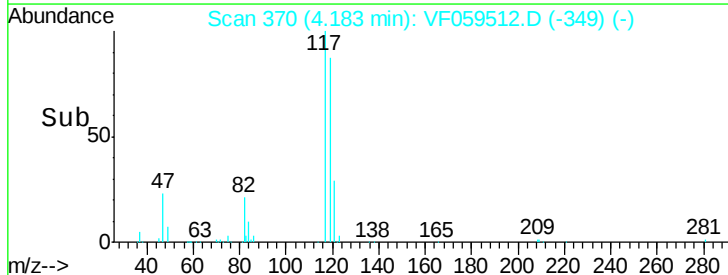
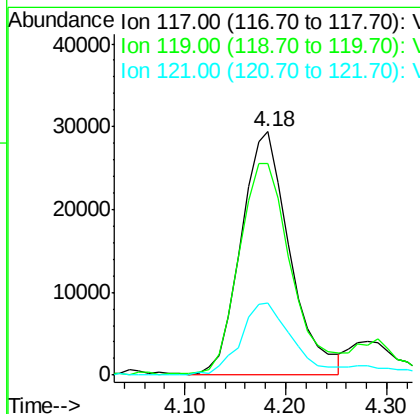
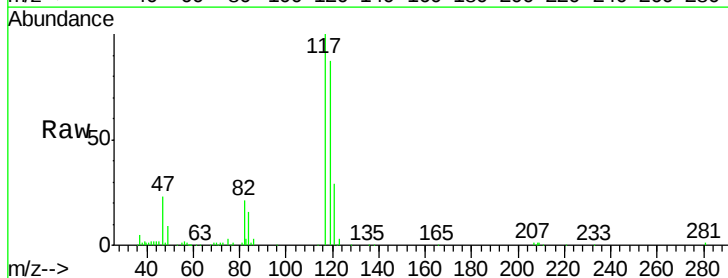
Manual Integrations
APPROVED

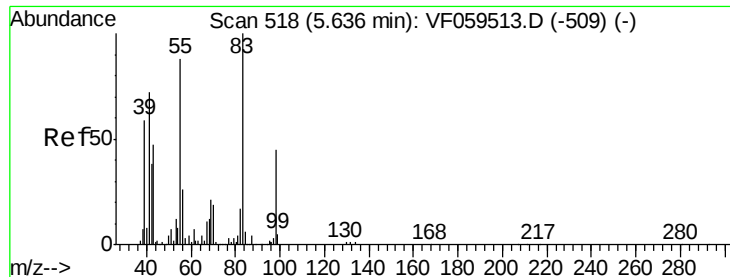
apatel
7/18/2018 3:16:04 PM



#38
Carbon Tetrachloride
Concen: 20.89 ug/l
RT: 4.18 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	117	119	121
Resp	98166		
Ratio	100	87.0	29.5
Lower		77.6	24.9
Upper		116.4	37.3





#39

Methvlcvclohexane

Concen: 22.51 ug/l

RT: 5.63 min Scan# 517

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

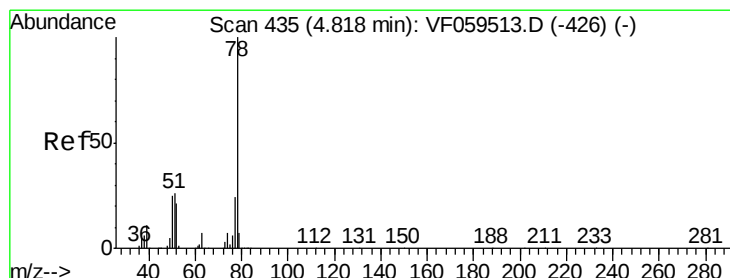
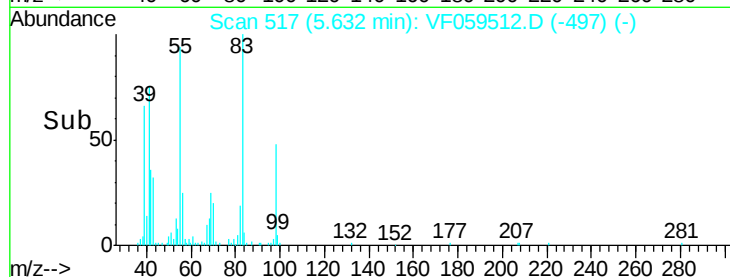
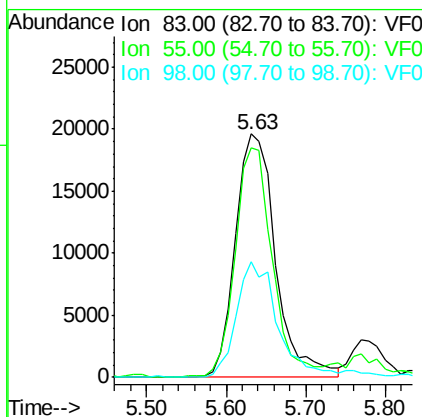
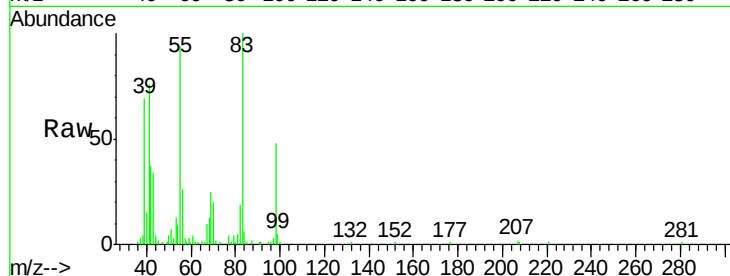
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	68703
Ion	Ratio	Lower	Upper
83	100		
55	94.2	70.2	105.4
98	47.6	36.2	54.2

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#40

Benzene

Concen: 21.19 ug/l

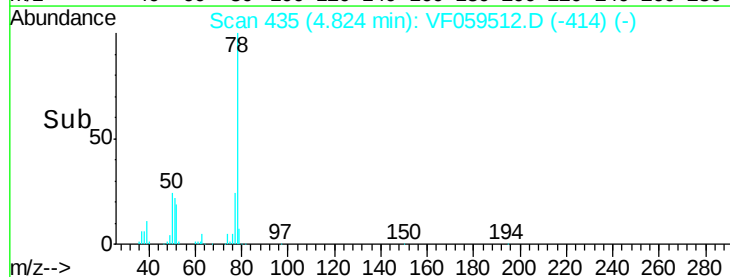
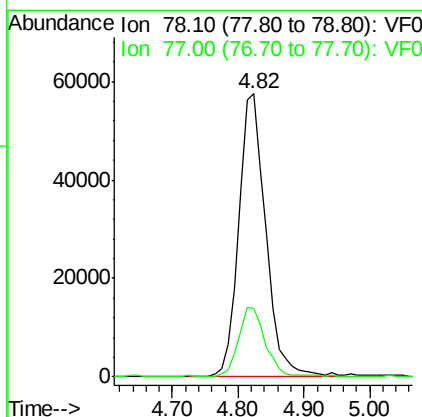
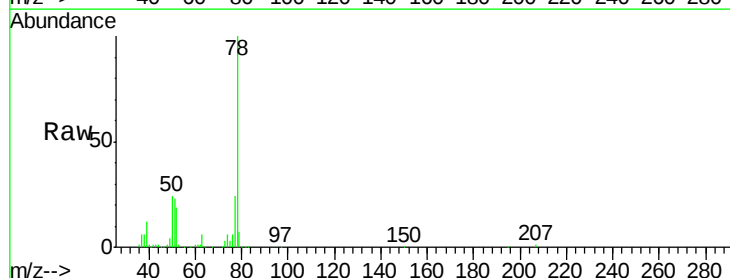
RT: 4.82 min Scan# 435

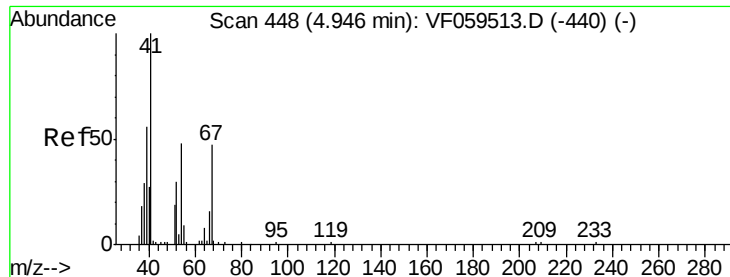
Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	78	Resp:	166875
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.4	29.0





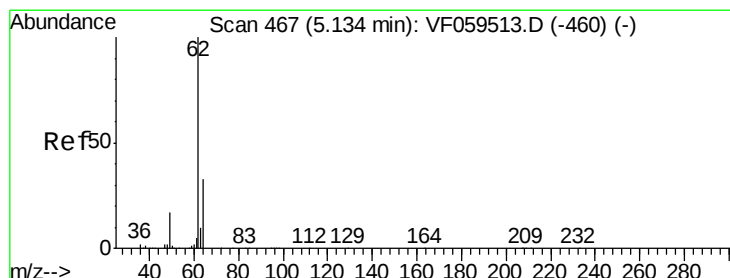
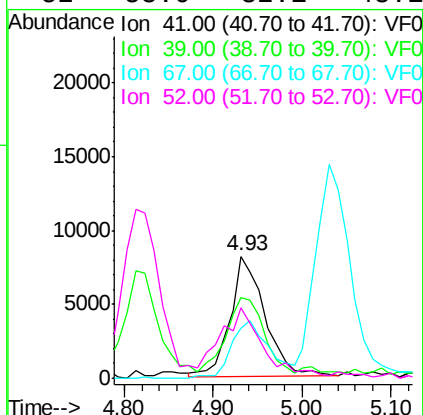
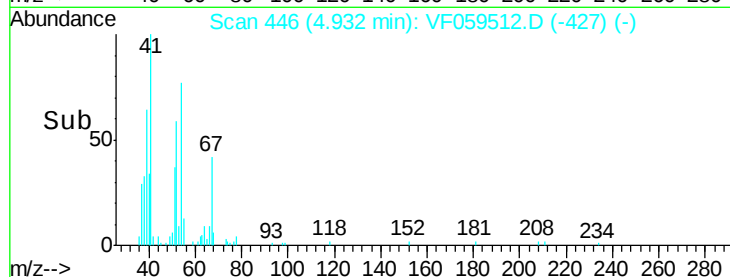
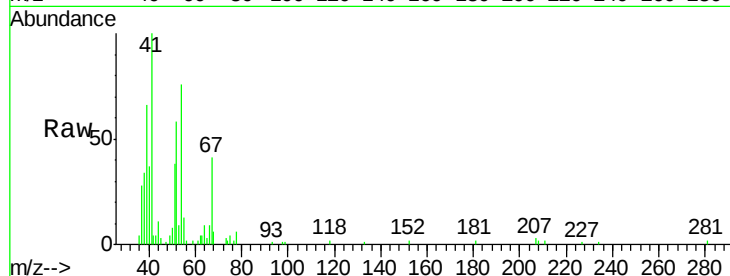
#41
Methacrylonitrile
Concen: 18.67 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
22325	41	100		
	39	66.4	49.4	74.0
	67	41.2	37.4	56.2
	52	58.0	32.1	48.1

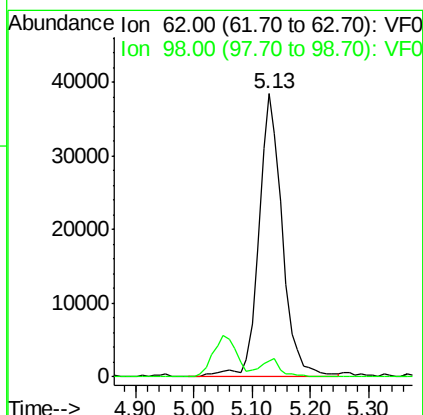
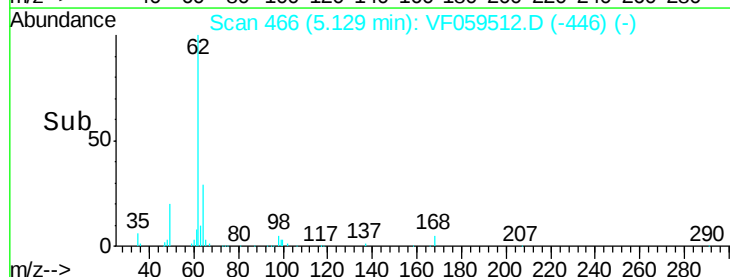
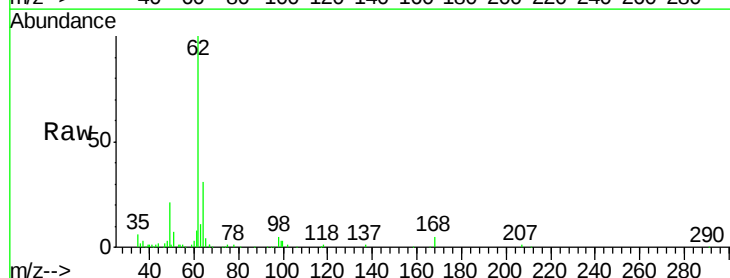
Manual Integrations
APPROVED

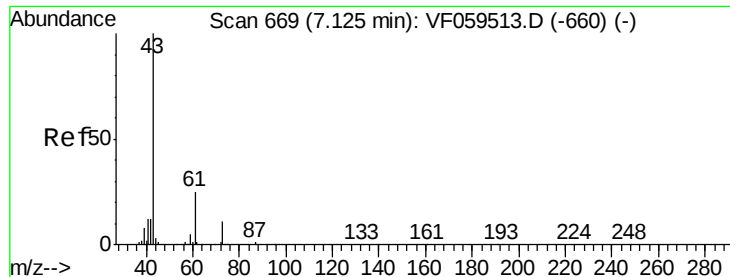
apatel
7/18/2018 3:16:04 PM



#42
1,2-Dichloroethane
Concen: 21.74 ug/l
RT: 5.13 min Scan# 466
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ion	Ratio	Lower	Upper
109559	62	100		
	98	5.4	0.0	9.6





#43

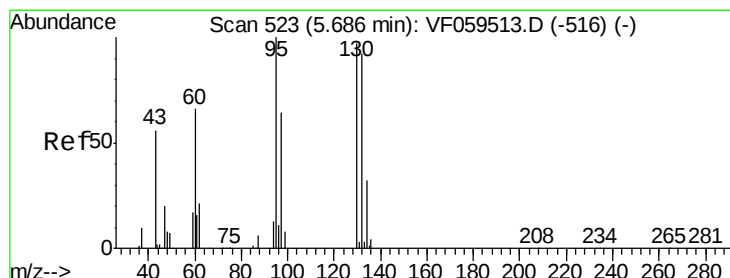
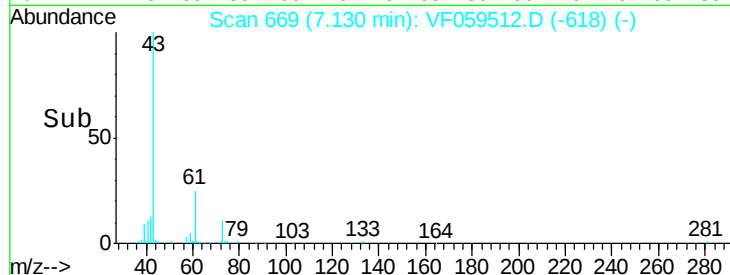
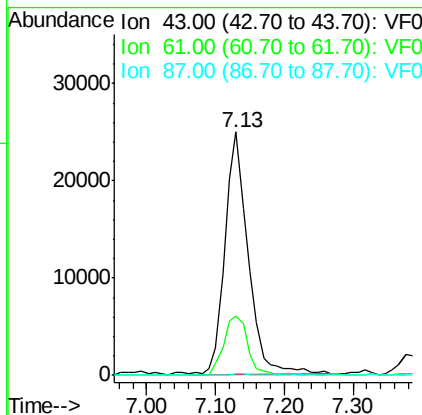
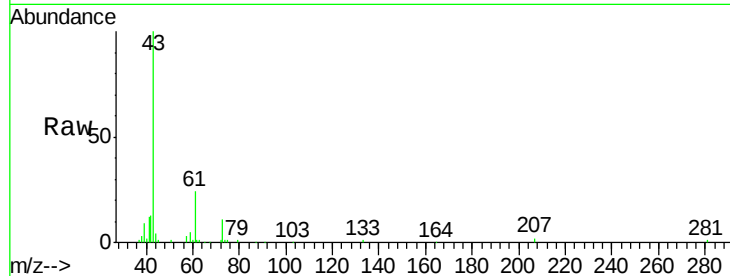
Isopropyl Acetate
 Concen: 19.55 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	24.4	20.3	30.5
87	0.5	0.4	0.6

Manual Integrations
 APPROVED

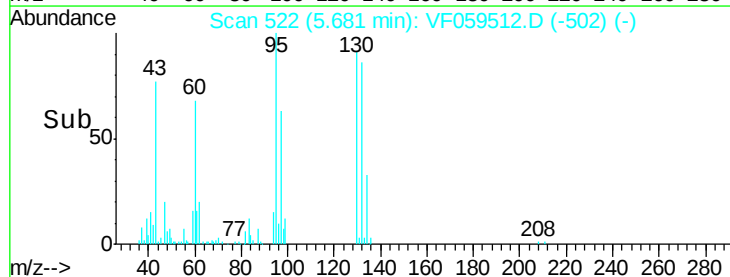
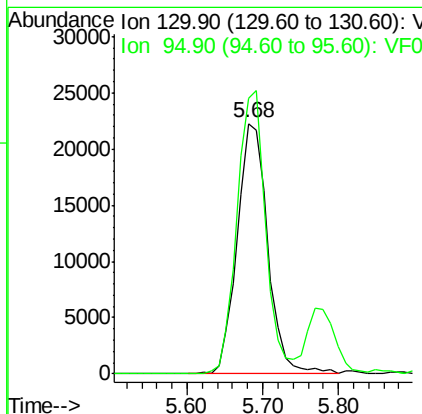
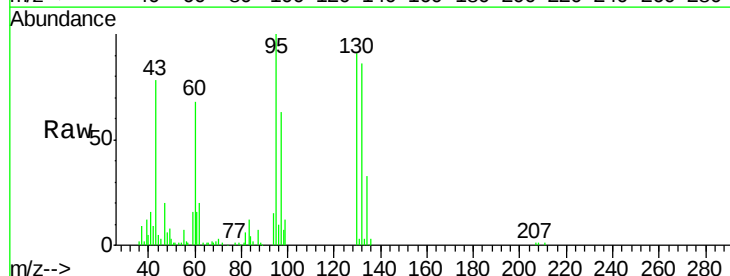
apatel
 7/18/2018 3:16:04 PM

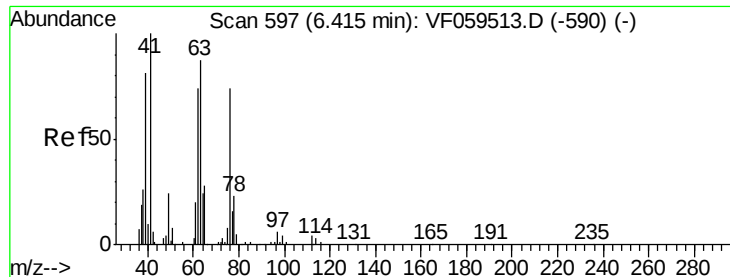


#44

Trichloroethene
 Concen: 21.92 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.1	0.0	206.6





#45

1,2-Dichloropropane

Concen: 21.39 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 47776

Ion Ratio Lower Upper

63 100

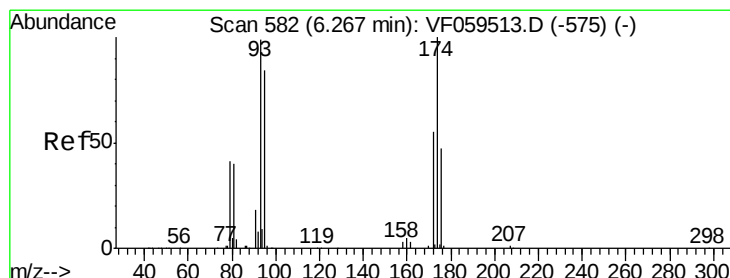
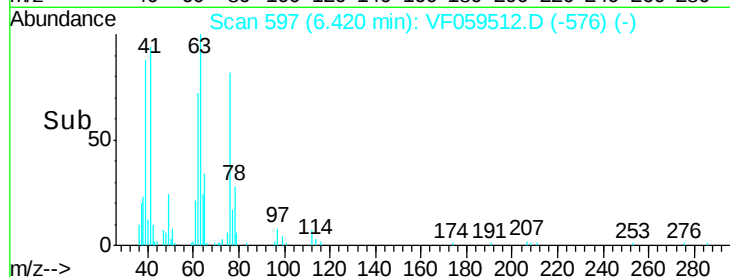
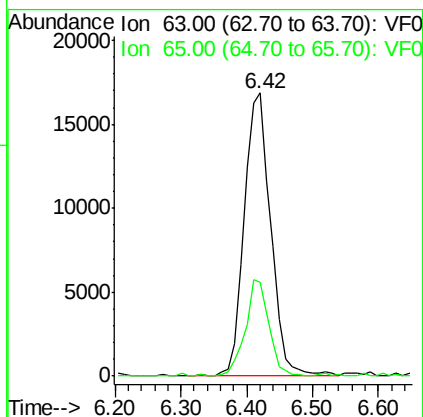
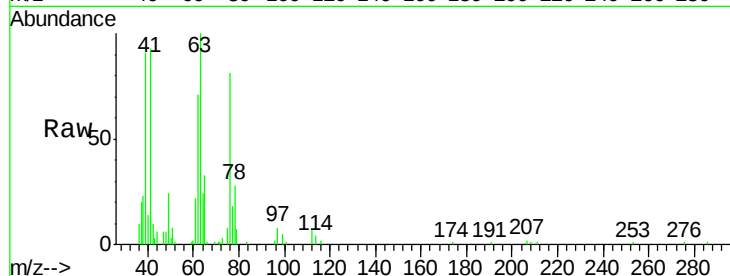
65 33.4 26.1 39.1

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#46

Dibromomethane

Concen: 20.15 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

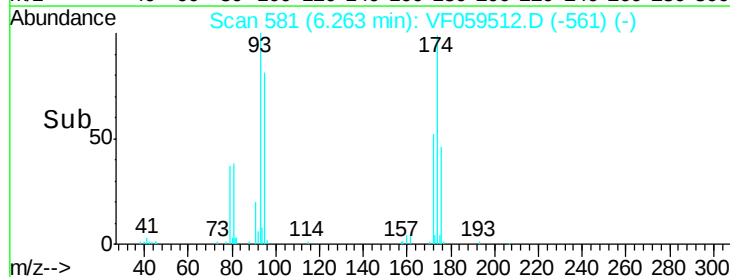
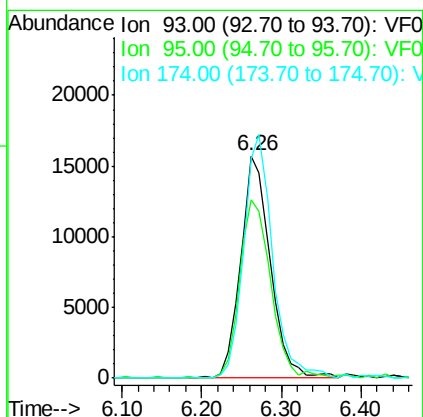
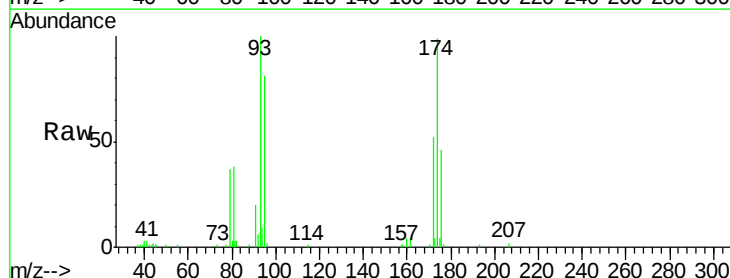
Tgt Ion: 93 Resp: 40202

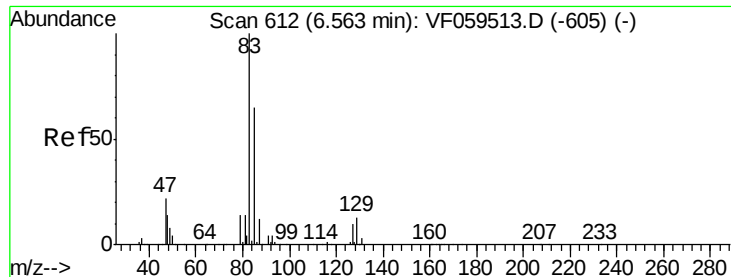
Ion Ratio Lower Upper

93 100

95 80.6 68.3 102.5

174 99.1 81.2 121.8





#47

Bromodichloromethane

Concen: 20.94 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

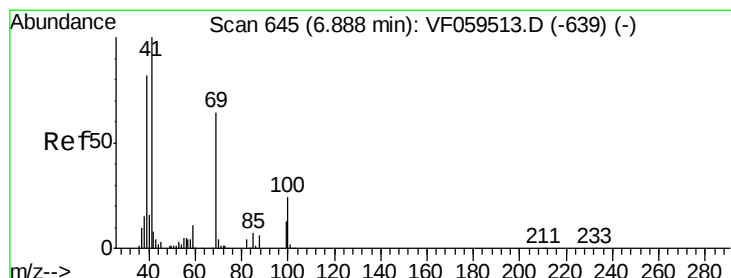
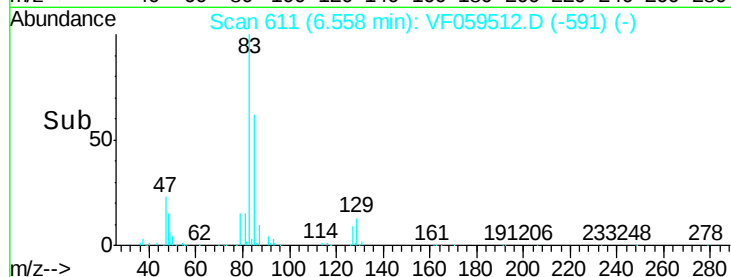
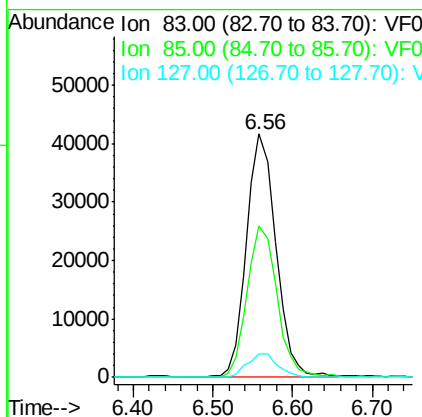
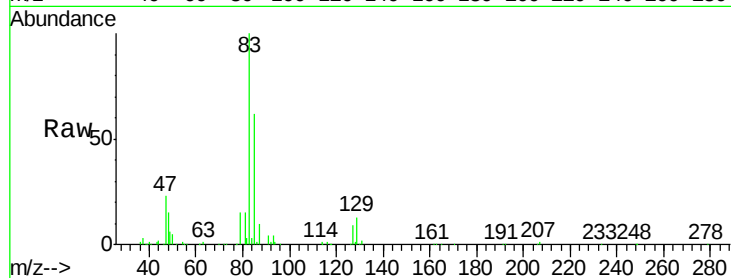
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	106744
Ion	Ratio	Lower	Upper
83	100		
85	62.0	52.4	78.6
127	9.4	8.2	12.4

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#48

Methyl methacrylate

Concen: 17.67 ug/l

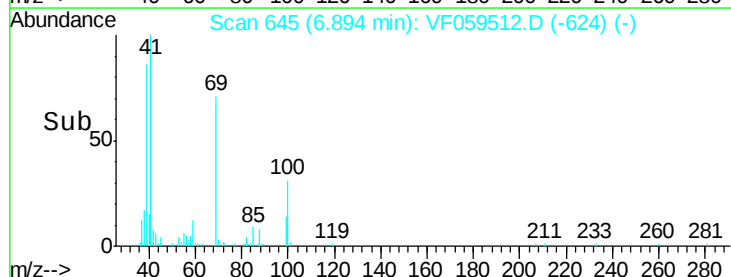
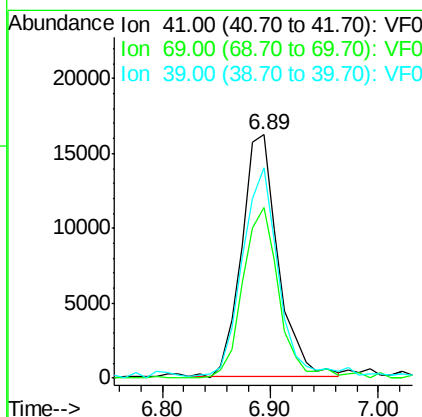
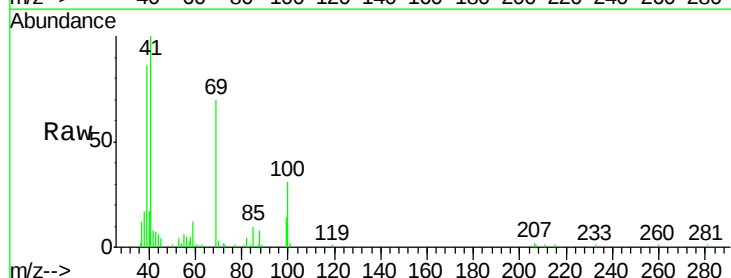
RT: 6.89 min Scan# 645

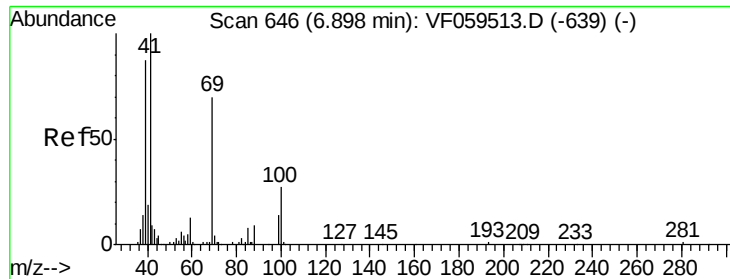
Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	41	Resp:	37835
Ion	Ratio	Lower	Upper
41	100		
69	70.3	51.3	76.9
39	86.3	65.3	97.9





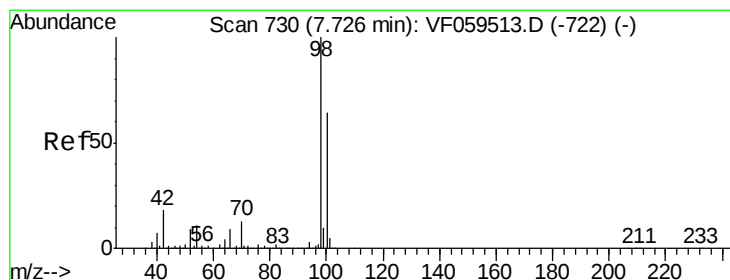
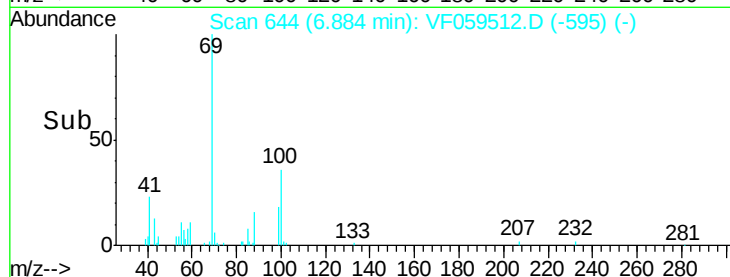
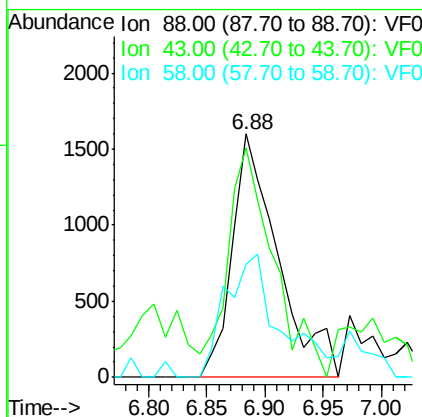
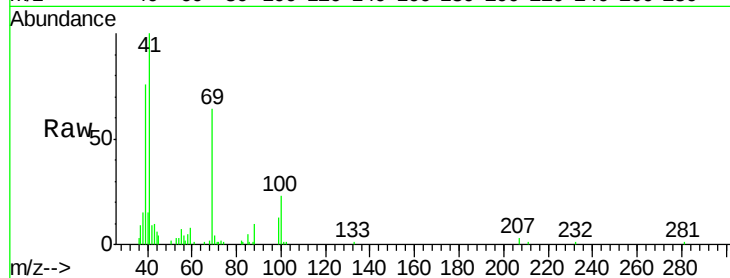
#49
1,4-Dioxane
Concen: 450.50 ug/l
RT: 6.88 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	94.1	64.8	97.2
58	46.6	44.1	66.1

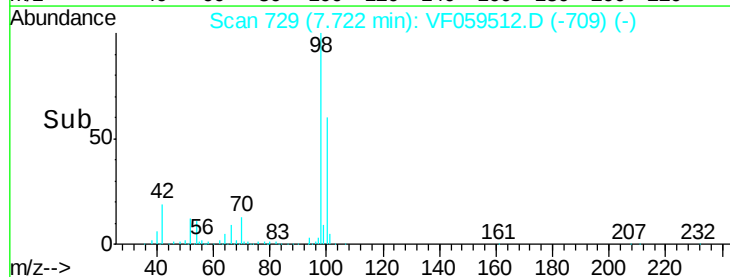
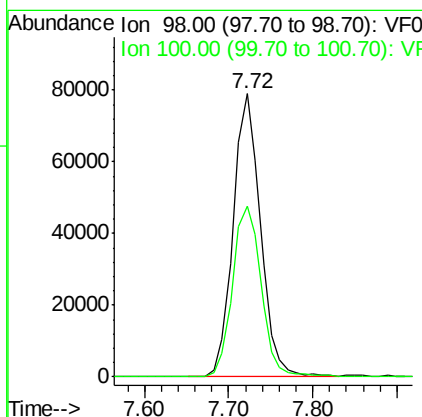
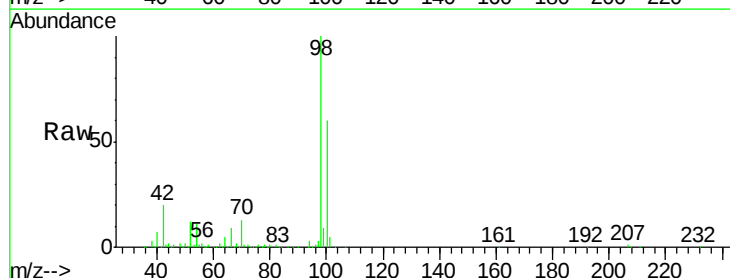
Manual Integrations
APPROVED

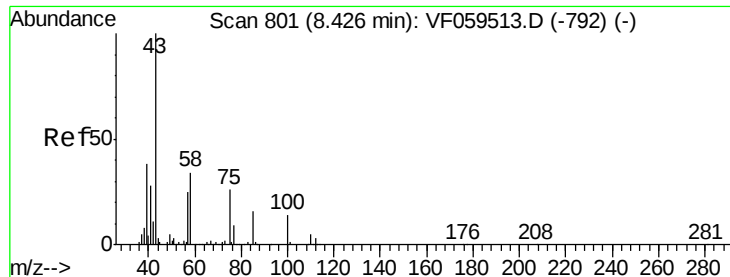
apatel
7/18/2018 3:16:04 PM



#50
Toluene-d8
Concen: 20.93 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
98	100		
100	60.3	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 101.00 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 210460

Ion Ratio Lower Upper

43 100

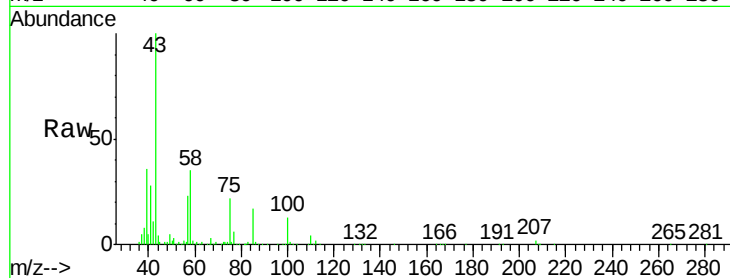
58 35.0 27.4 41.2

Manual Integrations

APPROVED

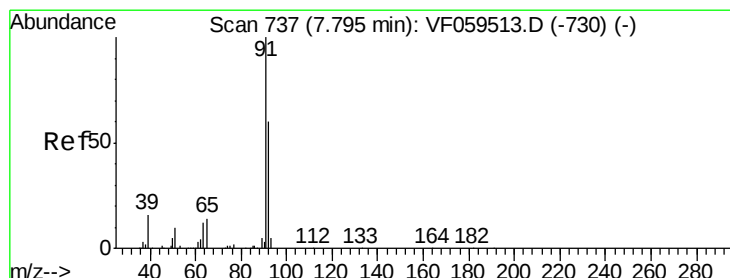
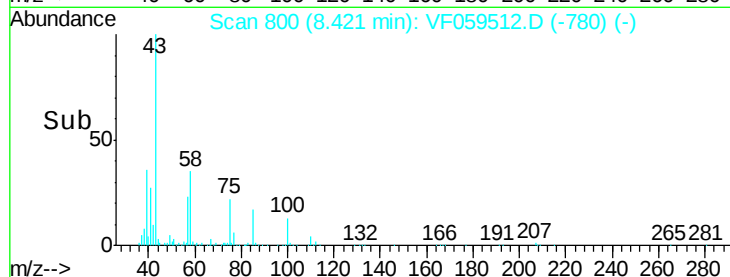
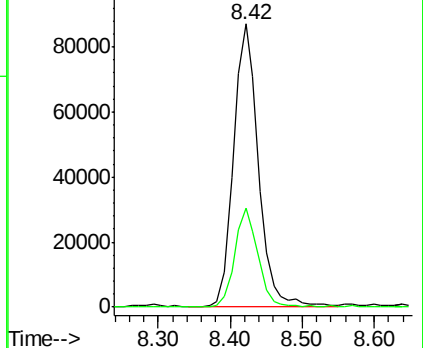
apatel

7/18/2018 3:16:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.30 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF059512.D

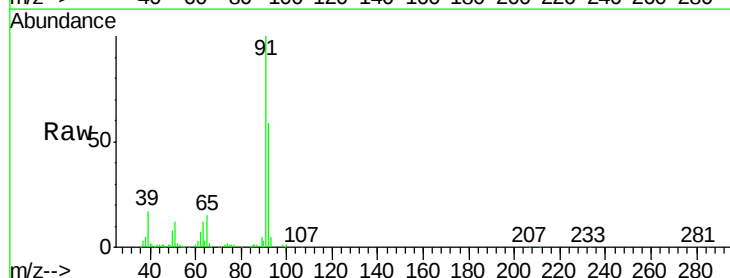
Acq: 17 Jul 2018 17:34

Tgt Ion: 92 Resp: 120626

Ion Ratio Lower Upper

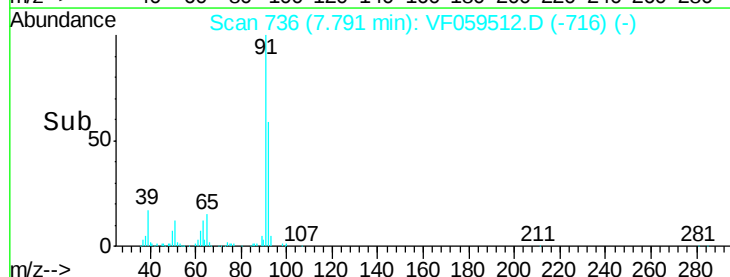
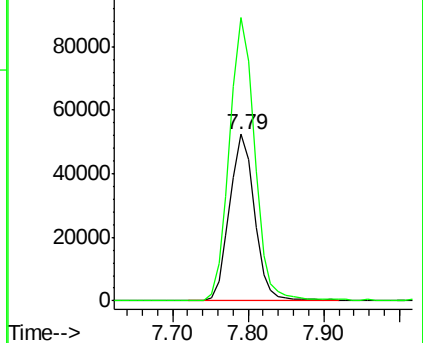
92 100

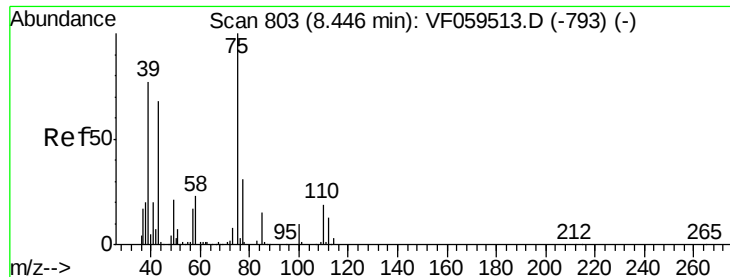
91 170.0 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





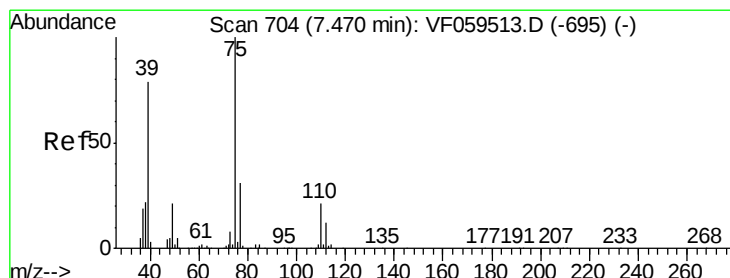
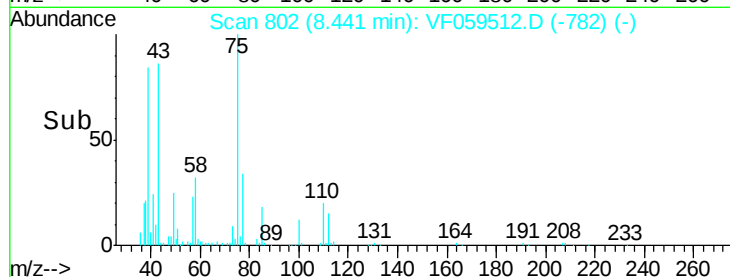
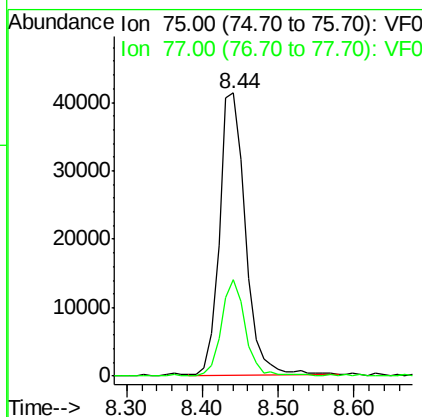
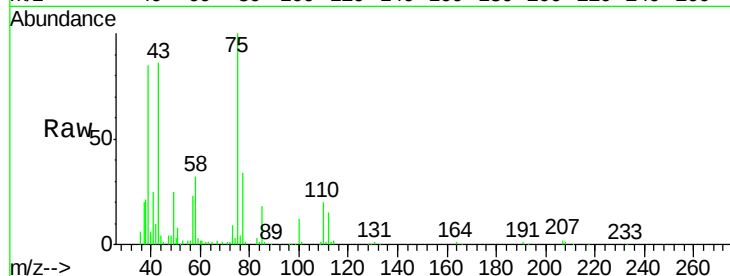
#53
t-1,3-Dichloropropene
Concen: 21.93 ug/l
RT: 8.44 min Scan# 802
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 98819
Ion Ratio Lower Upper
75 100
77 34.1 25.3 37.9

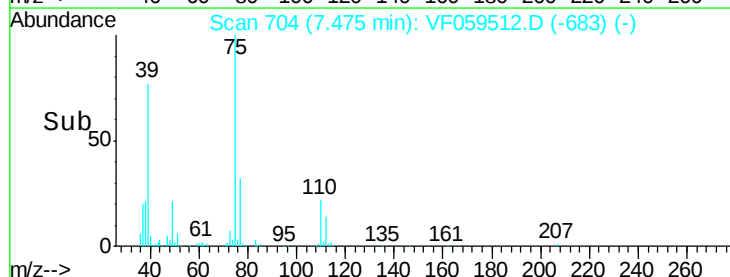
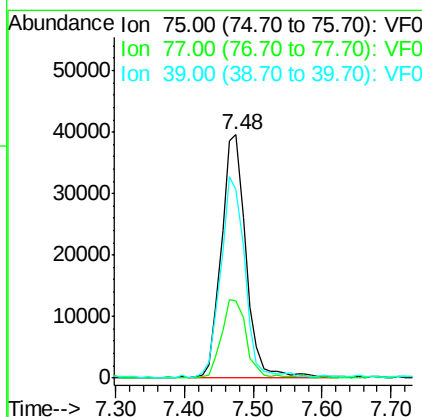
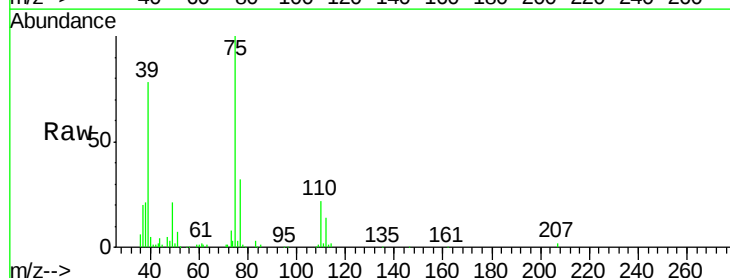
Manual Integrations
APPROVED

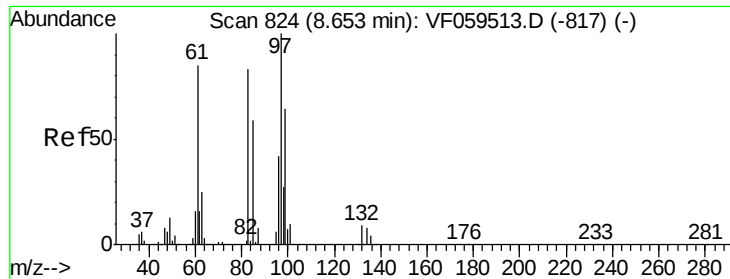
apatel
7/18/2018 3:16:04 PM



#54
cis-1,3-Dichloropropene
Concen: 21.06 ug/l
RT: 7.48 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion: 75 Resp: 98454
Ion Ratio Lower Upper
75 100
77 31.9 25.0 37.6
39 77.5 63.8 95.6





#55

1,1,2-Trichloroethane

Concen: 20.84 ug/l

RT: 8.65 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

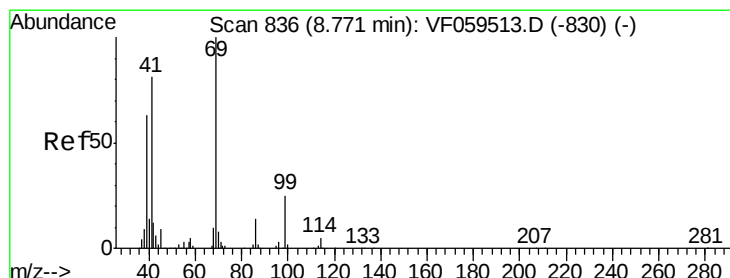
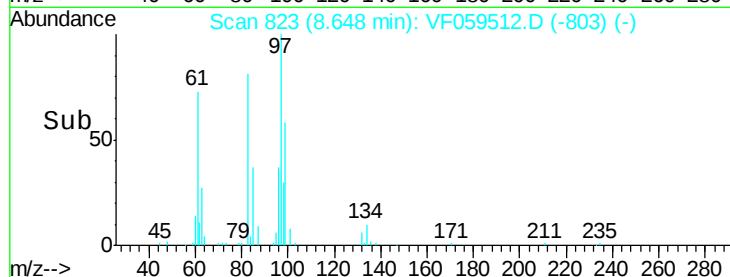
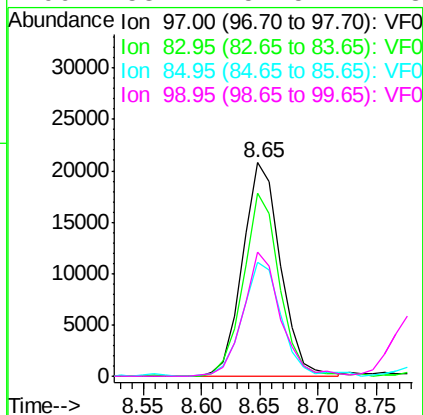
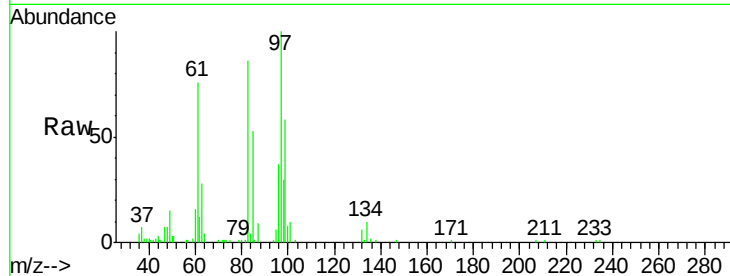
VSTDIC020

Tot Ion:	97	Resp:	47006
Ion	Ratio	Lower	Upper
97	100		
83	85.7	66.9	100.3
85	53.5	46.9	70.3
99	58.2	51.5	77.3

Manual Integrations
APPROVED

apatel

7/18/2018 3:16:04 PM



#56

Ethyl methacrylate

Concen: 19.25 ug/l

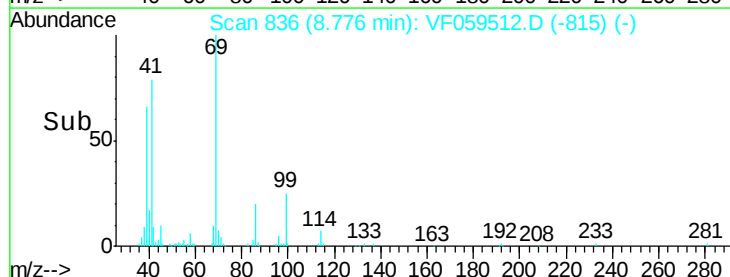
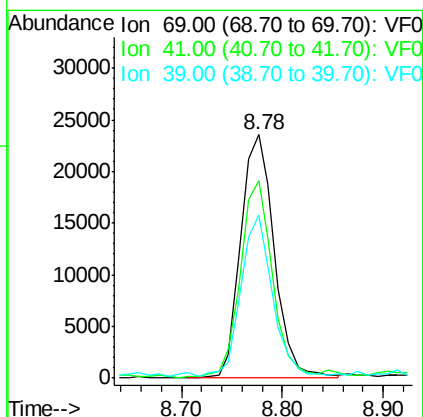
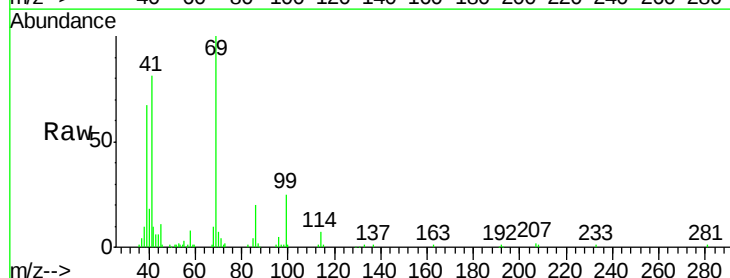
RT: 8.78 min Scan# 836

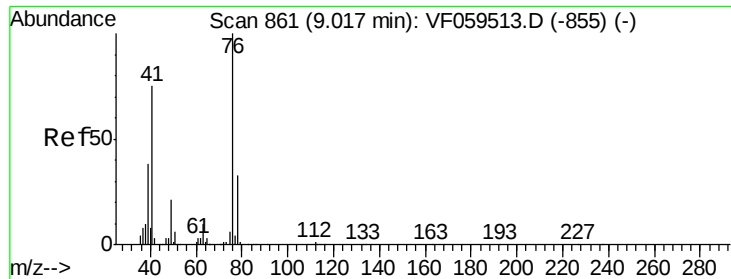
Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	69	Resp:	54665
Ion	Ratio	Lower	Upper
69	100		
41	80.9	65.4	98.2
39	66.9	51.0	76.4





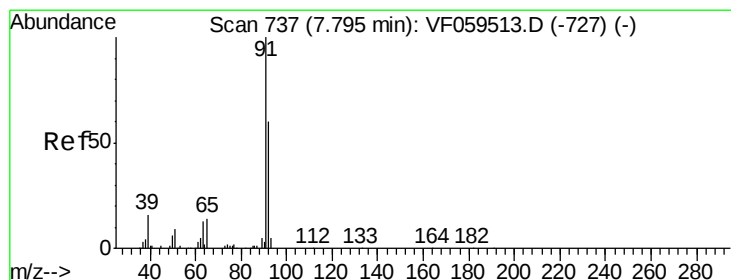
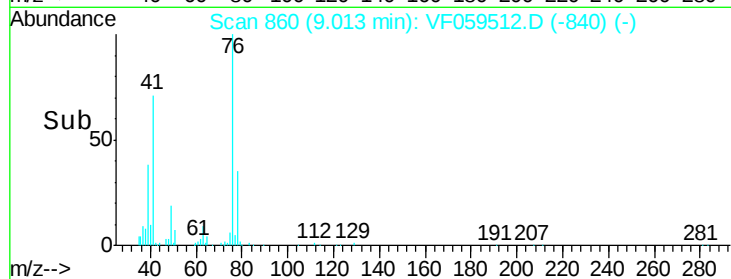
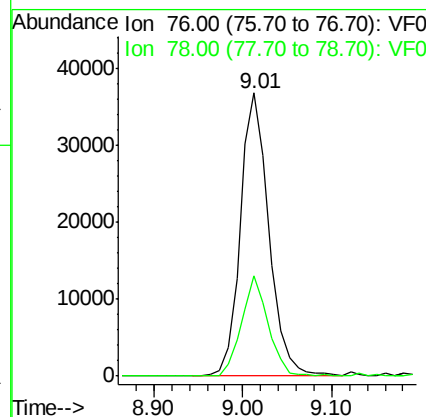
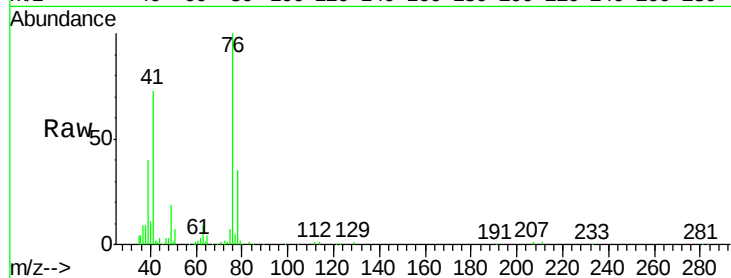
#57
 1,3-Dichloropropane
 Concen: 21.31 ug/l
 RT: 9.01 min Scan# 860
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.3	26.4	39.6

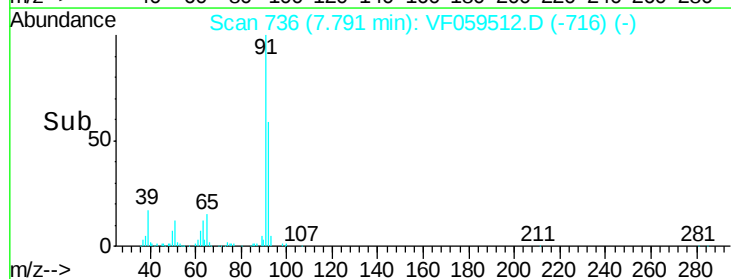
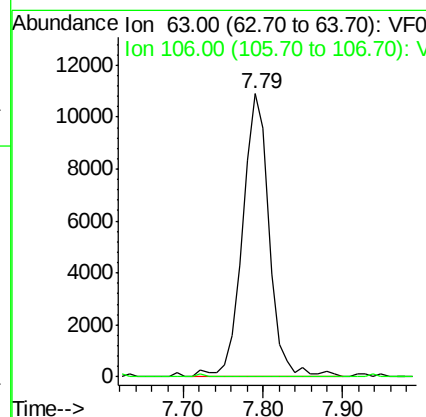
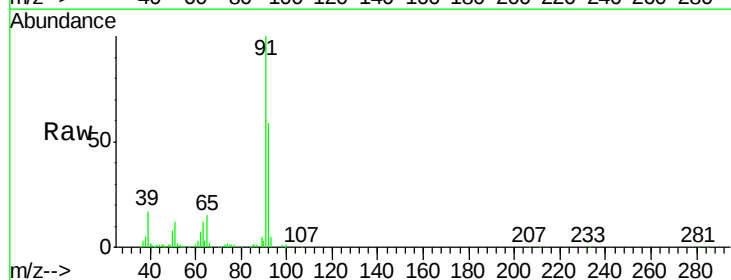
Manual Integrations
 APPROVED

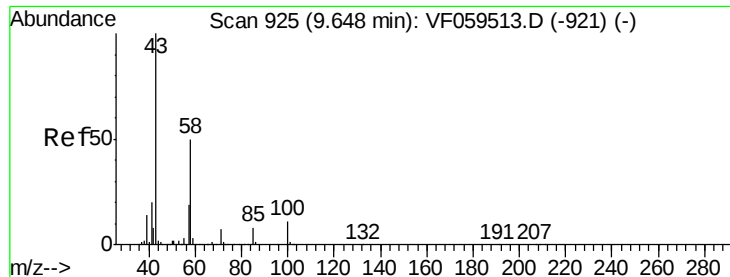
apatel
 7/18/2018 3:16:04 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 106.18 ug/l
 RT: 7.79 min Scan# 736
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





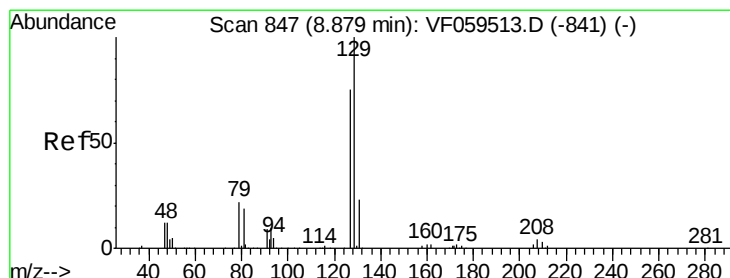
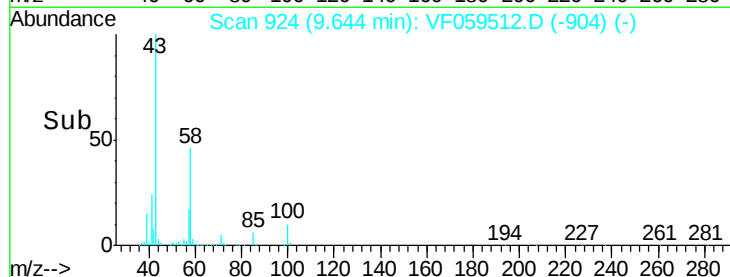
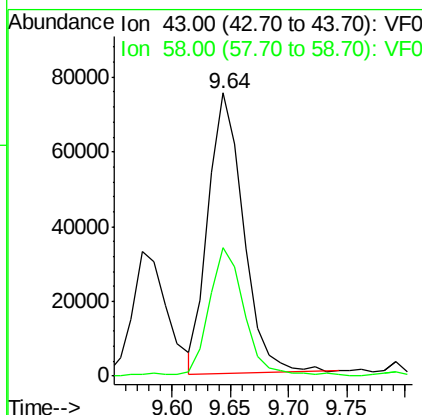
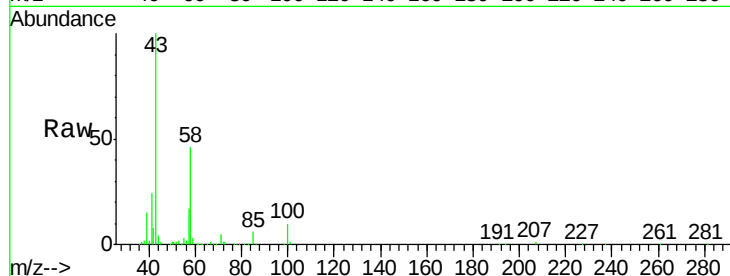
#59
2-Hexanone
Concen: 95.77 ug/l
RT: 9.64 min Scan# 924
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 156585
Ion Ratio Lower Upper
43 100
58 45.5 23.3 69.9

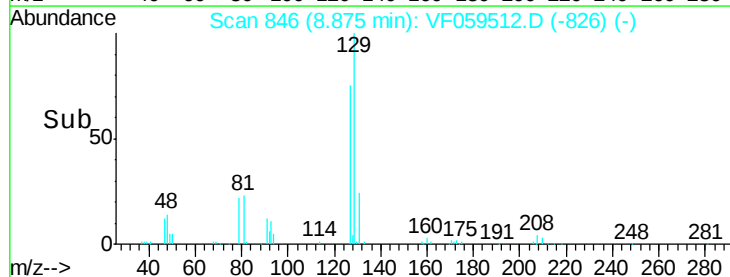
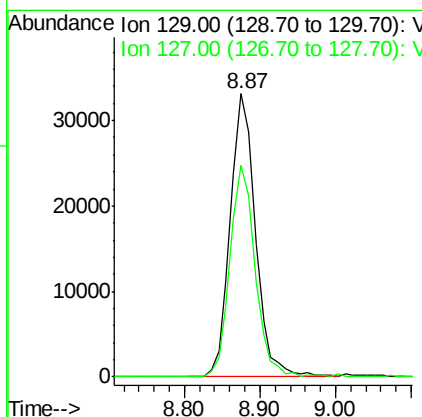
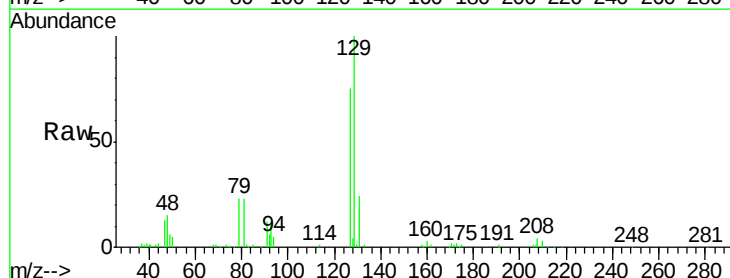
Manual Integrations
APPROVED

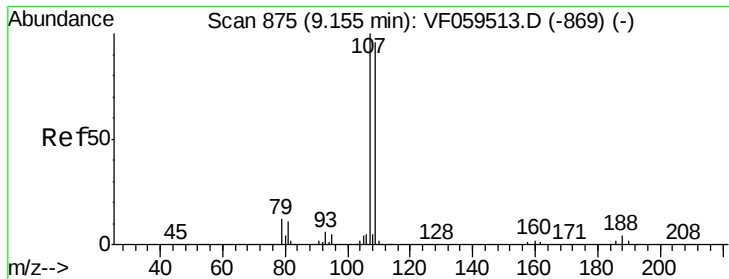
apatel
7/18/2018 3:16:04 PM



#60
Dibromochloromethane
Concen: 20.88 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion: 129 Resp: 76408
Ion Ratio Lower Upper
129 100
127 74.6 37.6 112.8





#61

1,2-Dibromoethane

Concen: 20.88 ug/l

RT: 9.15 min Scan# 874

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 56999

Ion Ratio Lower Upper

107 100

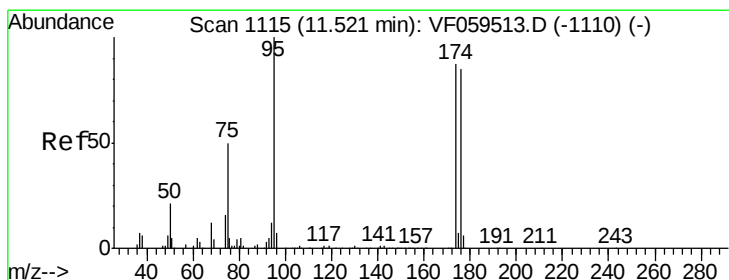
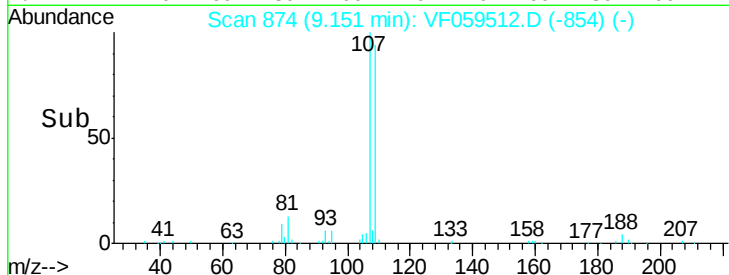
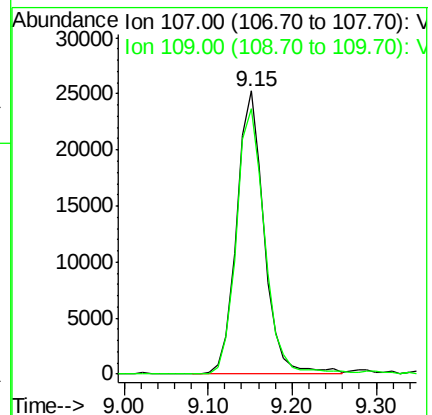
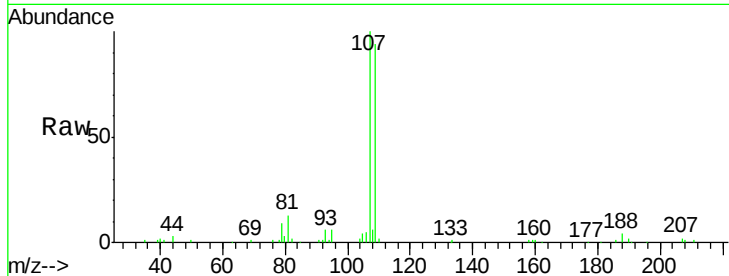
109 93.6 76.5 114.7

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#62

4-Bromofluorobenzene

Concen: 21.22 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

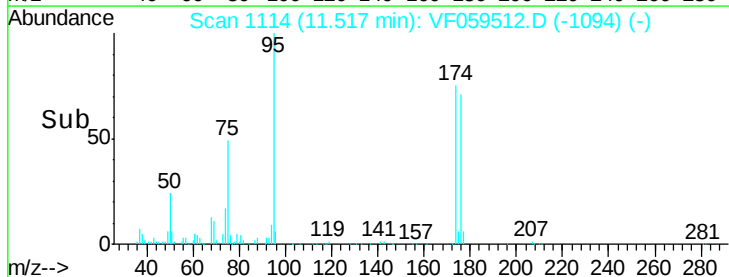
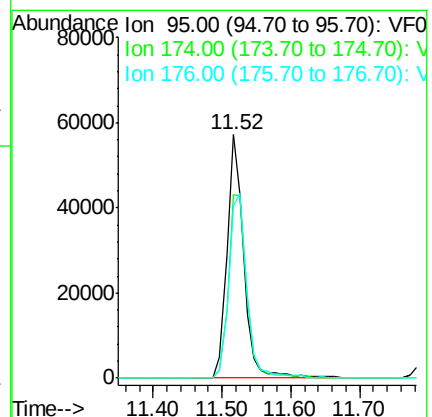
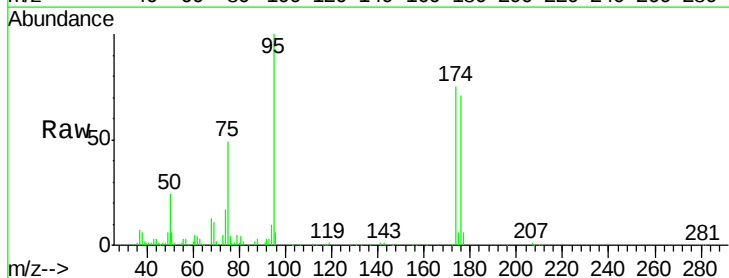
Tgt Ion: 95 Resp: 96384

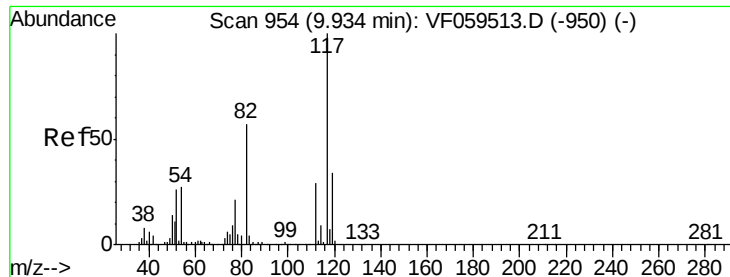
Ion Ratio Lower Upper

95 100

174 75.3 0.0 174.4

176 70.5 0.0 169.4





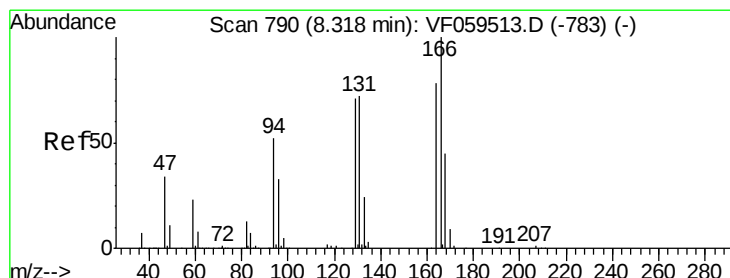
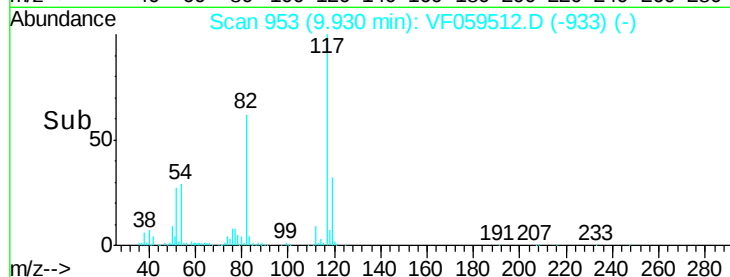
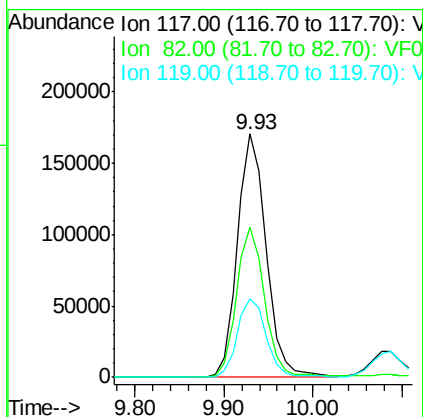
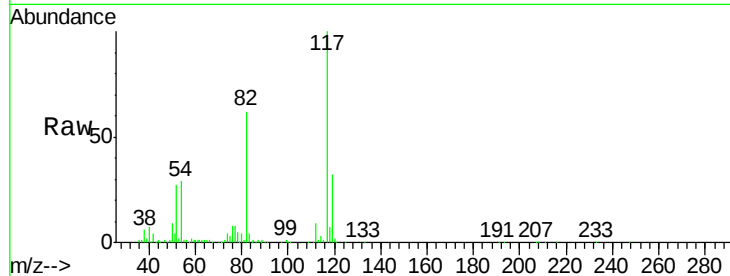
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	385748		
82	61.6	46.1	69.1	
119	32.5	27.2	40.8	

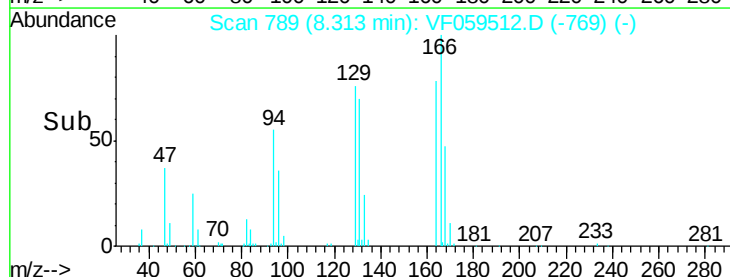
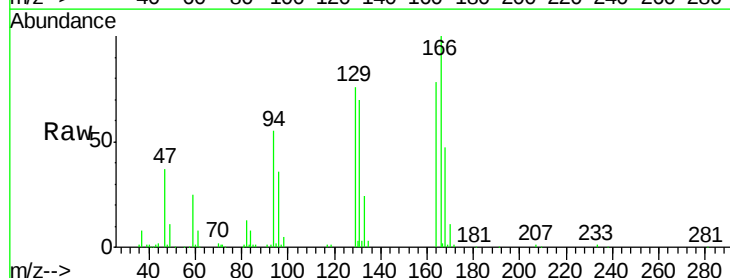
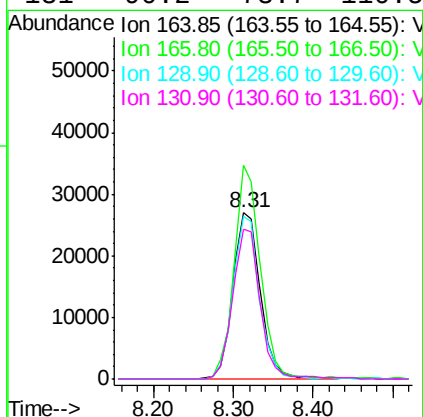
Manual Integrations
APPROVED

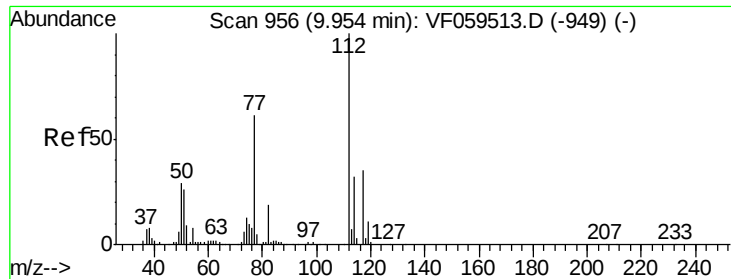
apatel
7/18/2018 3:16:04 PM



#64
Tetrachloroethene
Concen: 21.33 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64868		
166	128.6	102.3	153.5	
129	98.0	72.4	108.6	
131	90.2	73.7	110.5	





#65

Chlorobenzene

Concen: 21.68 ug/l

RT: 9.96 min Scan# 956

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 157303

Ion Ratio Lower Upper

112 100

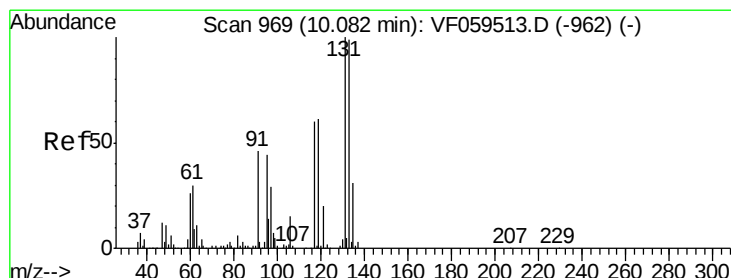
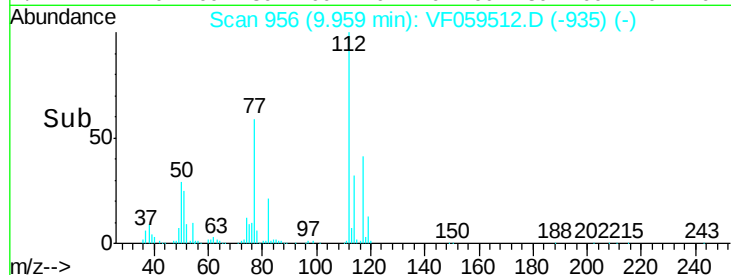
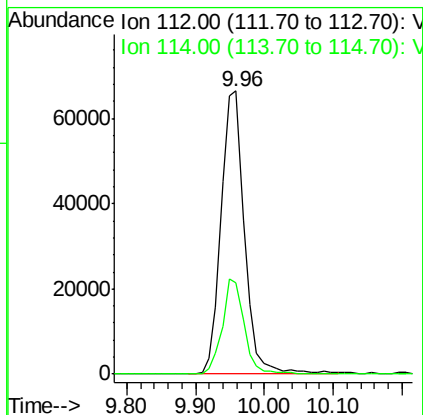
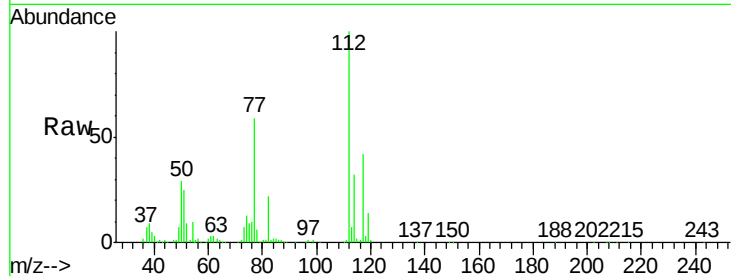
114 32.1 25.4 38.2

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 21.53 ug/l

RT: 10.08 min Scan# 968

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

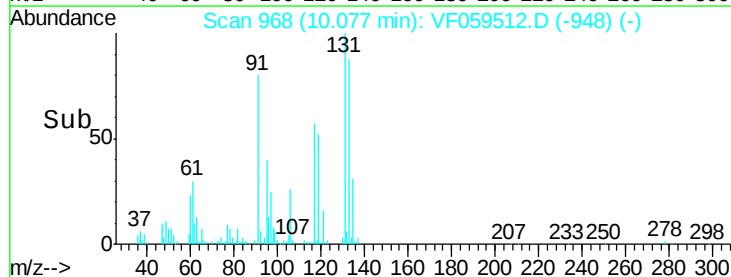
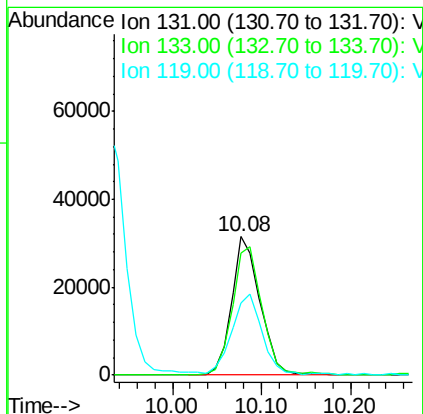
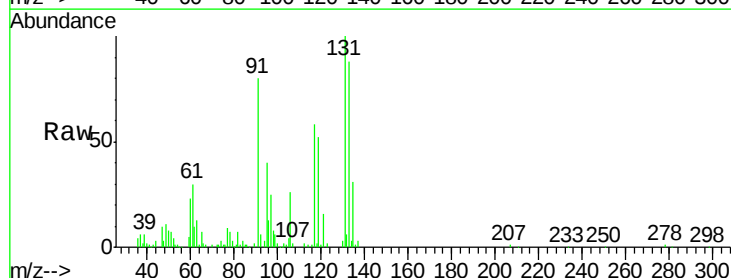
Tgt Ion:131 Resp: 70729

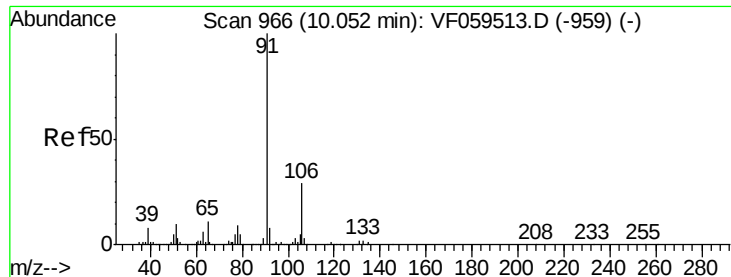
Ion Ratio Lower Upper

131 100

133 87.8 49.6 148.8

119 52.5 31.4 94.3





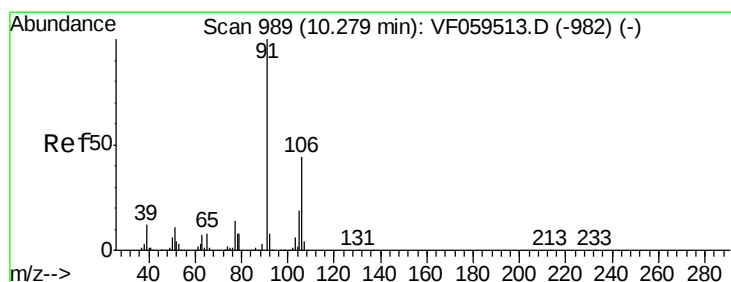
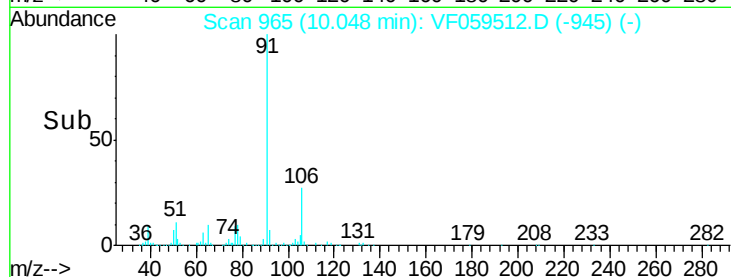
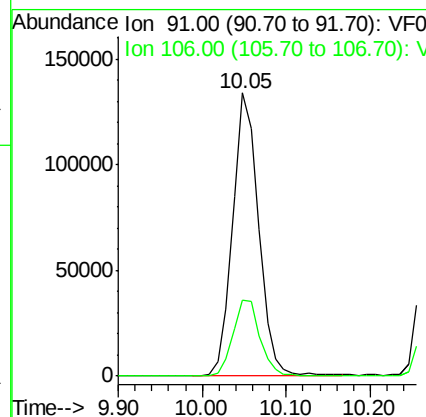
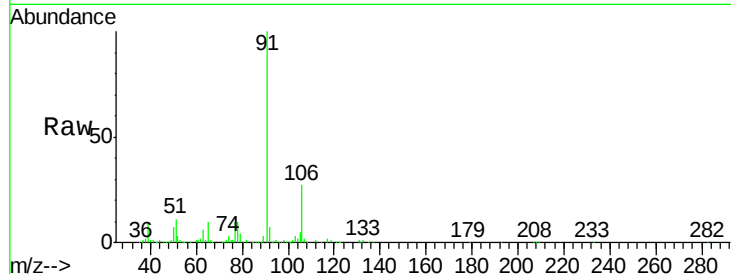
#67
Ethyl Benzene
Concen: 22.36 ug/l
RT: 10.05 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 289452
Ion Ratio Lower Upper
91 100
106 26.9 23.4 35.2

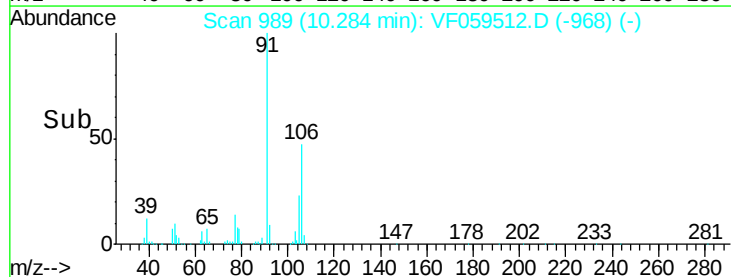
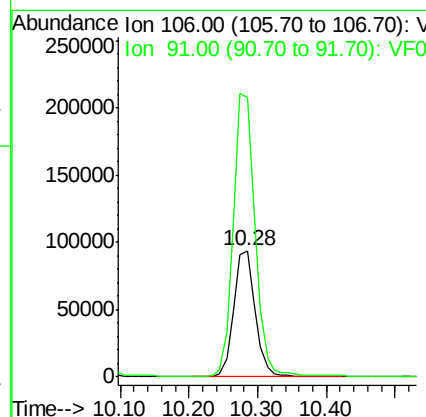
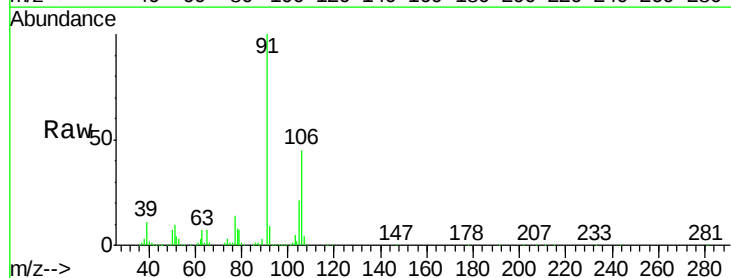
Manual Integrations
APPROVED

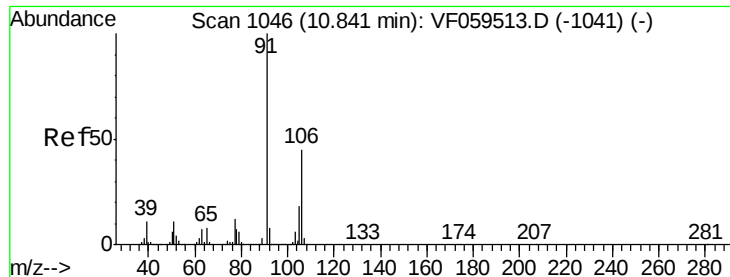
apatel
7/18/2018 3:16:04 PM



#68
m/p-Xylenes
Concen: 43.98 ug/l
RT: 10.28 min Scan# 989
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion: 106 Resp: 203920
Ion Ratio Lower Upper
106 100
91 222.1 181.0 271.4





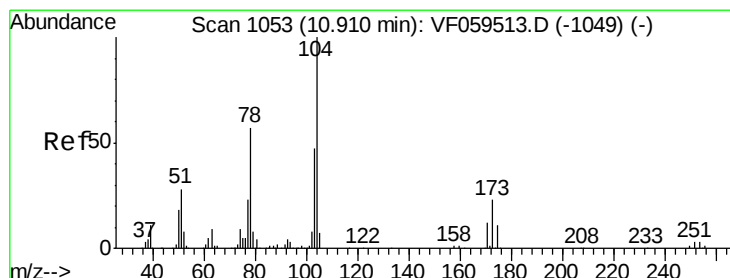
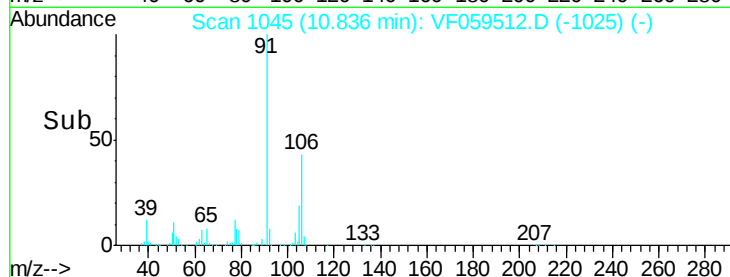
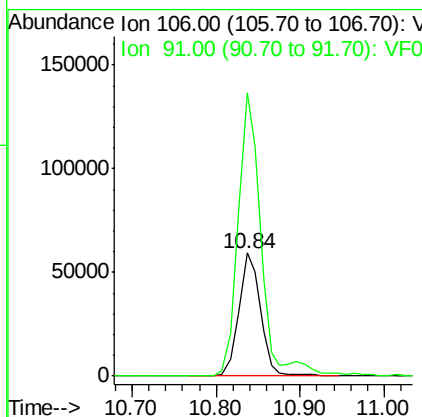
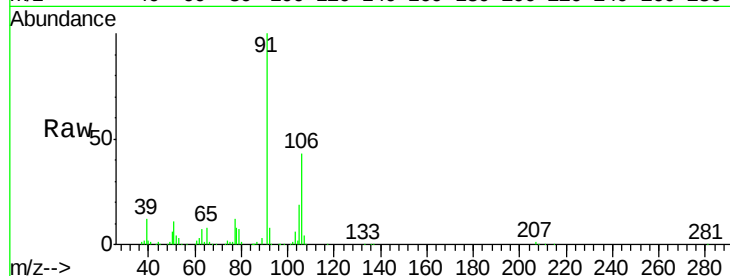
#69
o-Xylene
Concen: 22.18 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	106850		
91	91	230.1	112.3	336.9	

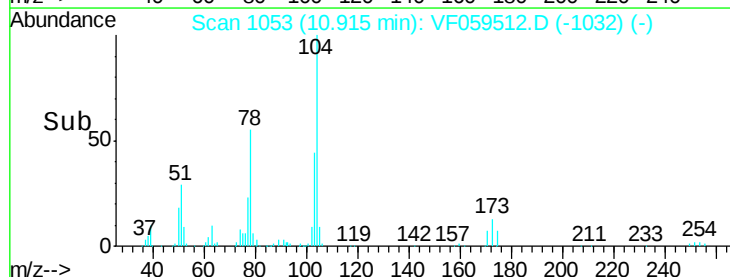
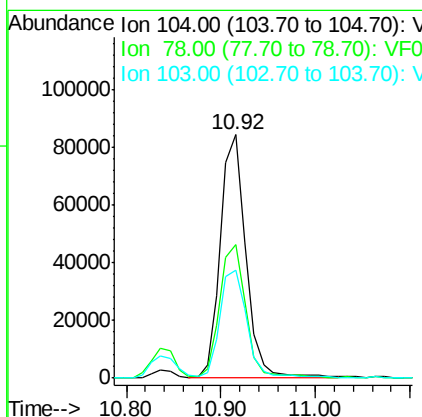
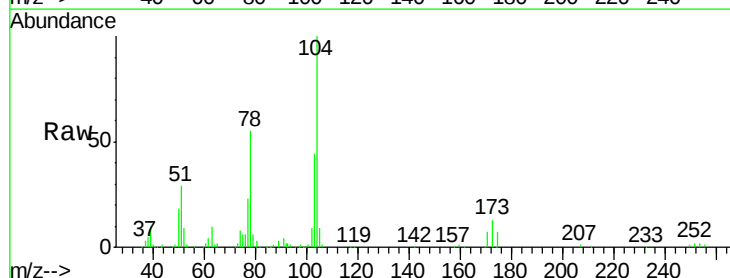
Manual Integrations
APPROVED

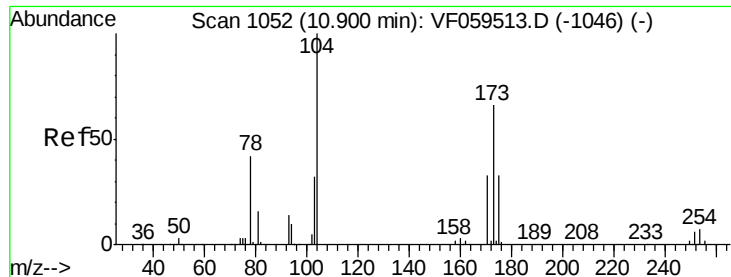
apatel
7/18/2018 3:16:04 PM



#70
Styrene
Concen: 20.61 ug/l
RT: 10.92 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	157141		
78	78	54.6	45.7	68.5	
103	103	44.2	38.1	57.1	





#71

Bromoform

Concen: 19.20 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 45980

Ion Ratio Lower Upper

173 100

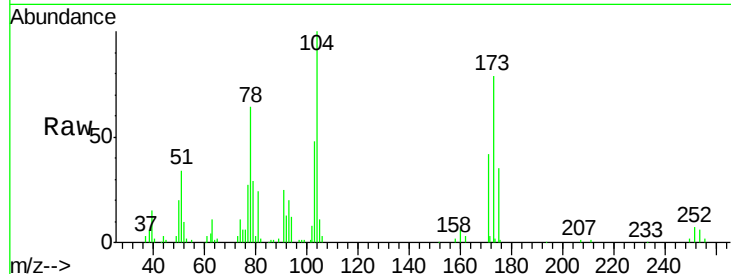
175 43.5 25.3 75.8

254 0.0 0.0 0.0

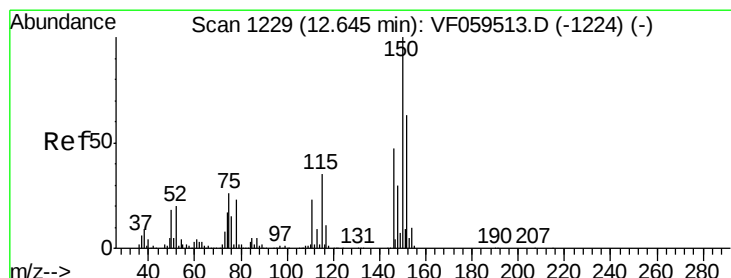
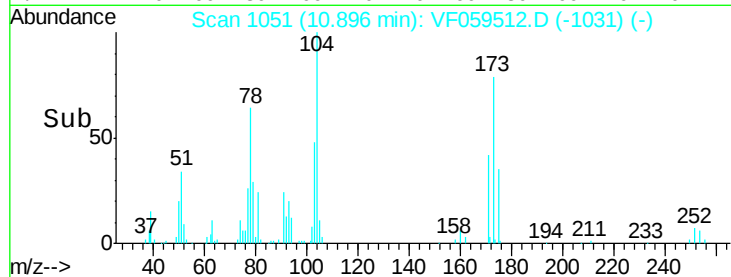
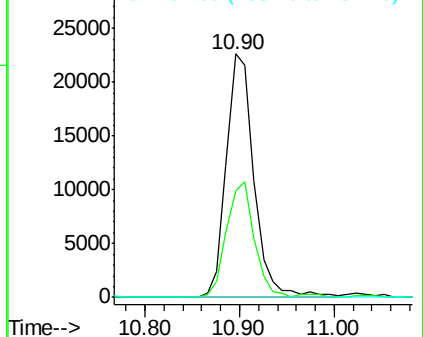
Manual Integrations
APPROVED

apatel

7/18/2018 3:16:04 PM



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: 12.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

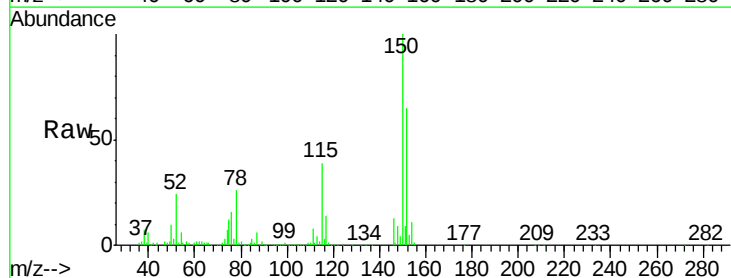
Tgt Ion:152 Resp: 224711

Ion Ratio Lower Upper

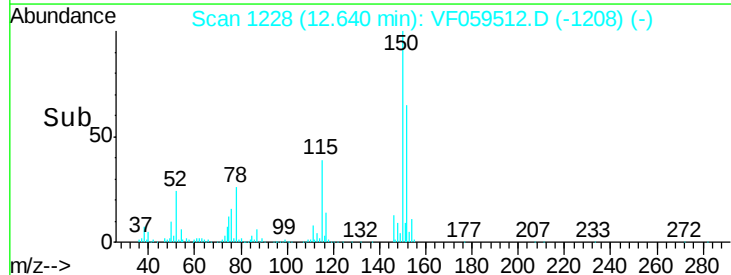
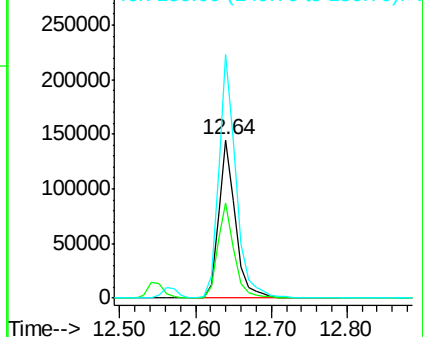
152 100

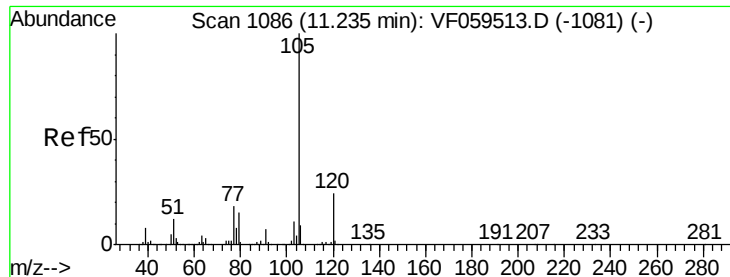
115 60.3 27.8 83.3

150 154.3 0.0 318.4



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: 21.99 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 315177

Ion Ratio Lower Upper

105 100

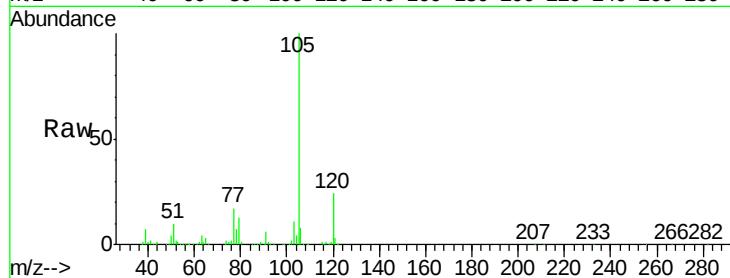
120 24.1 12.0 36.0

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

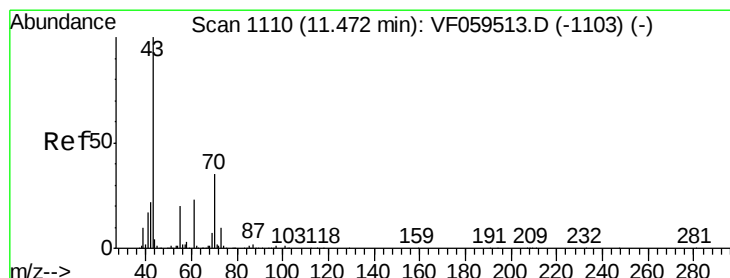
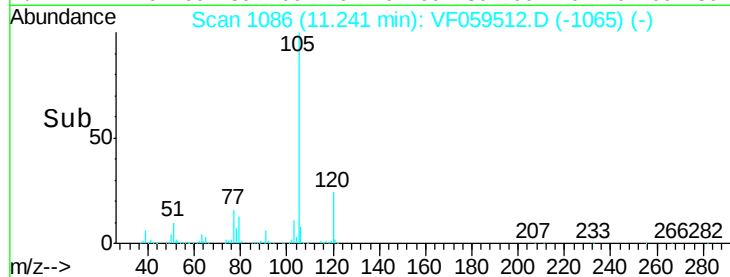
100000

50000

0

11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 18.42 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion: 43 Resp: 93690

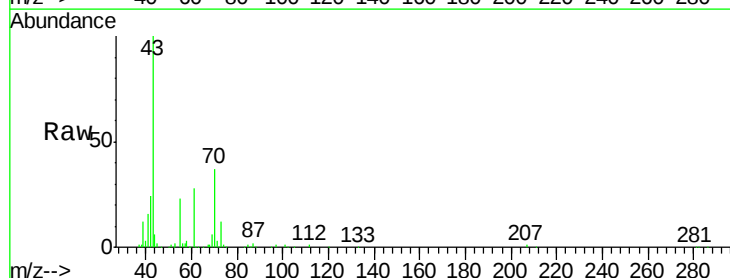
Ion Ratio Lower Upper

43 100

70 36.5 27.9 41.9

55 23.2 16.2 24.2

61 27.5 18.6 27.8



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

80000

60000

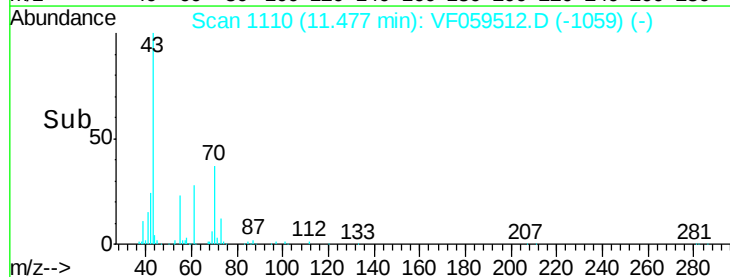
40000

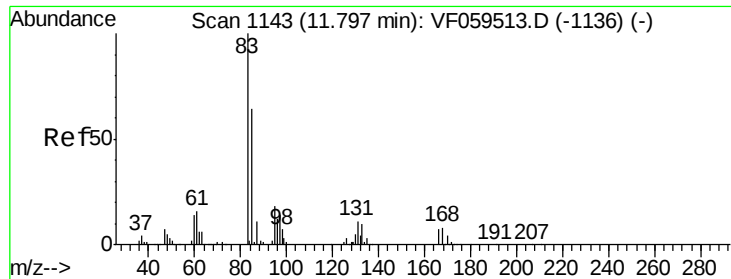
20000

0

11.40 11.50 11.60

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.41 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

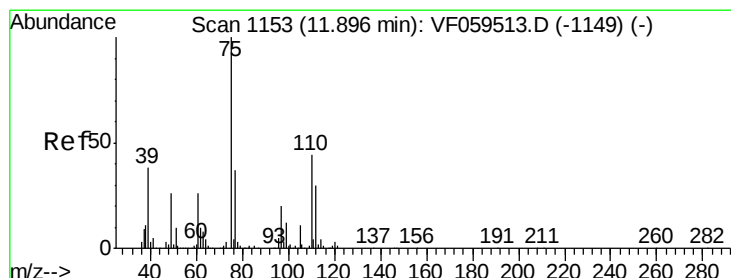
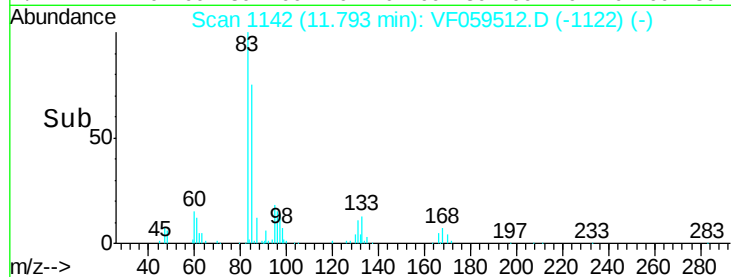
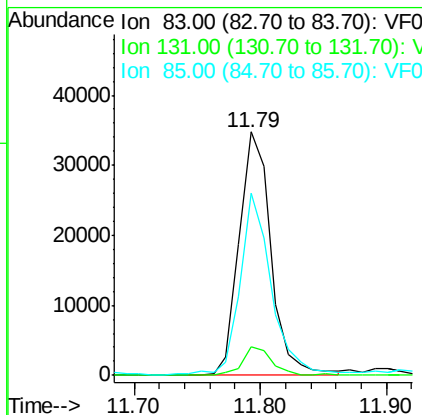
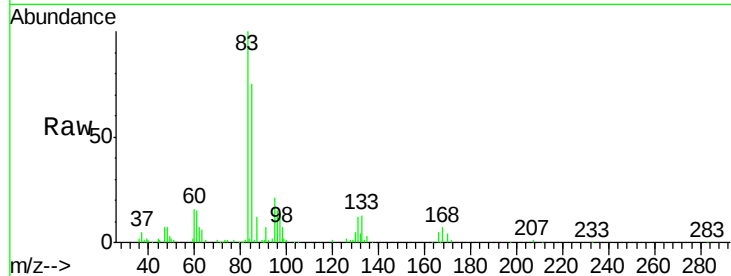
ClientSampleId :

VSTDIC020

Tot Ion	83	Resp	61014
Ion	Ratio	Lower	Upper
83	100		
131	12.0	5.7	17.1
85	75.0	31.9	95.9

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#76

1,2,3-Trichloropropane

Concen: 20.79 ug/l

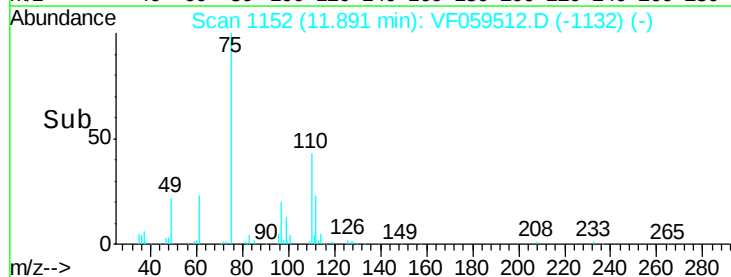
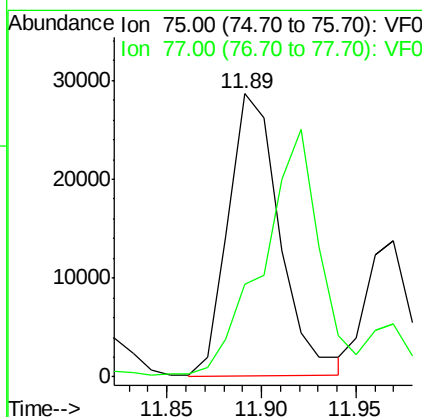
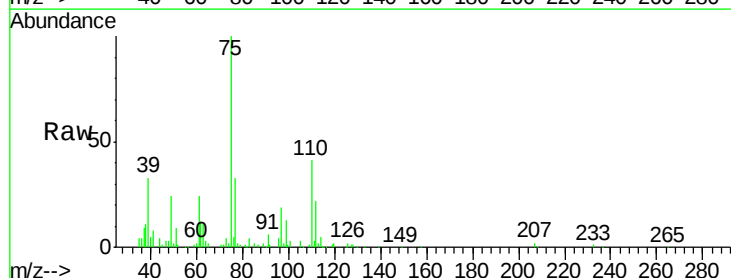
RT: 11.89 min Scan# 1152

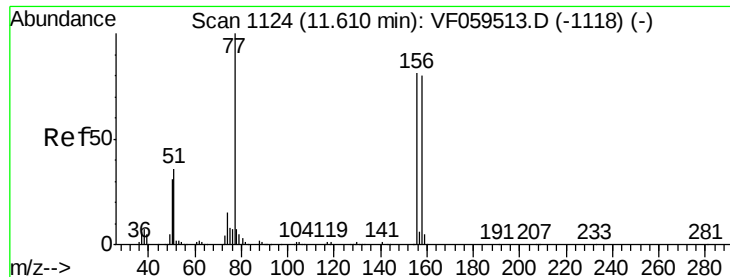
Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion	75	Resp	53886
Ion	Ratio	Lower	Upper
75	100		
77	32.6	18.7	56.1





#77

Bromobenzene

Concen: 21.59 ug/l

RT: 11.61 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 87218

Ion Ratio Lower Upper

156 100

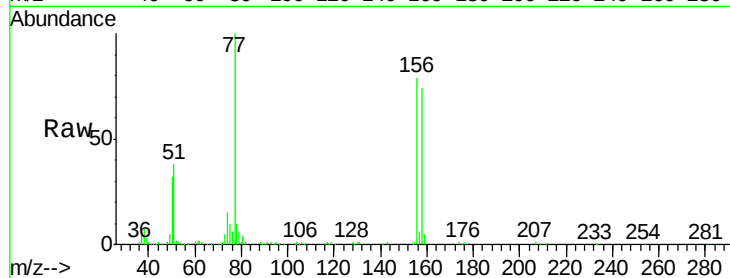
77 127.2 62.0 186.0

158 94.7 49.8 149.3

Manual Integrations
APPROVED

apatel

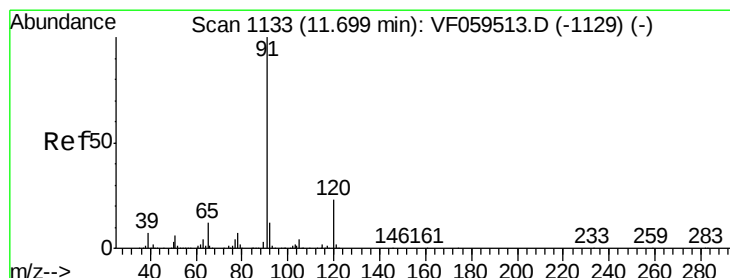
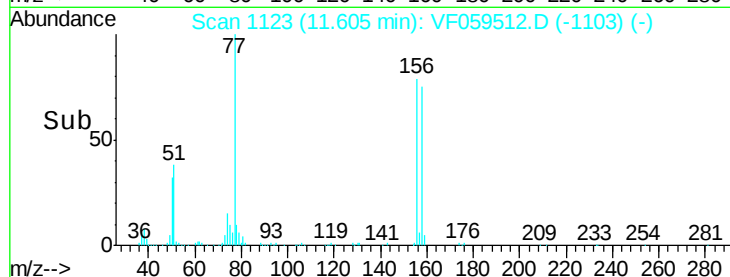
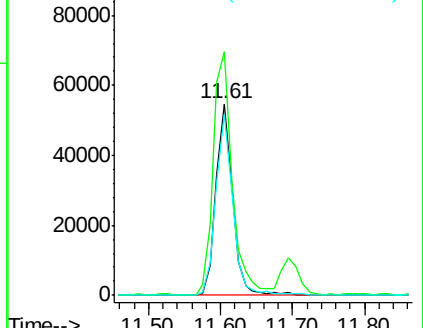
7/18/2018 3:16:04 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 21.72 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF059512.D

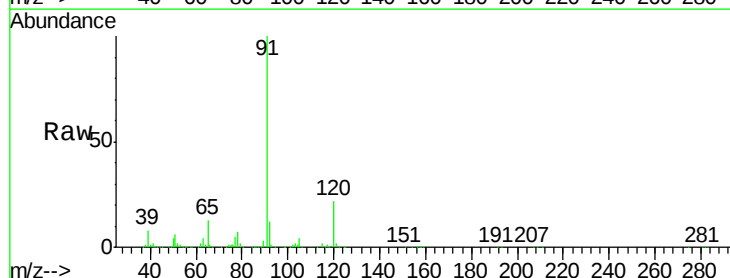
Acq: 17 Jul 2018 17:34

Tgt Ion: 91 Resp: 360454

Ion Ratio Lower Upper

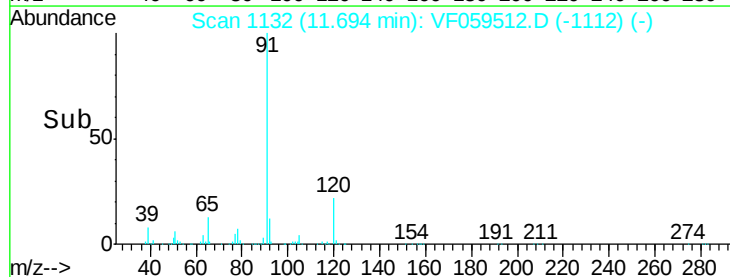
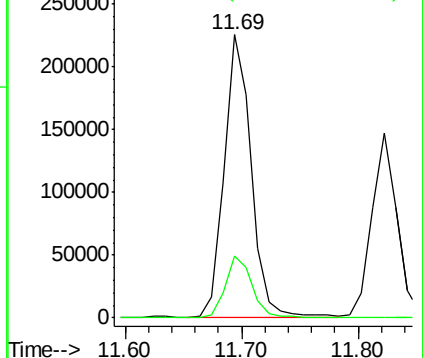
91 100

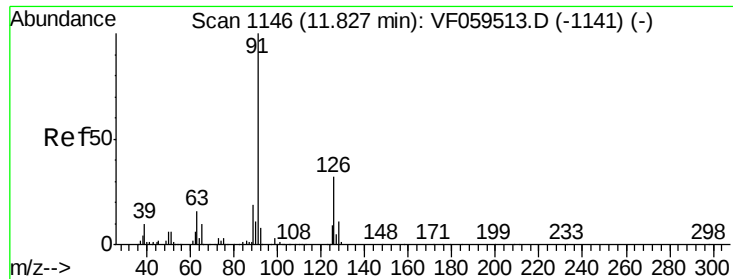
120 21.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.96 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 220298

Ion Ratio Lower Upper

91 100

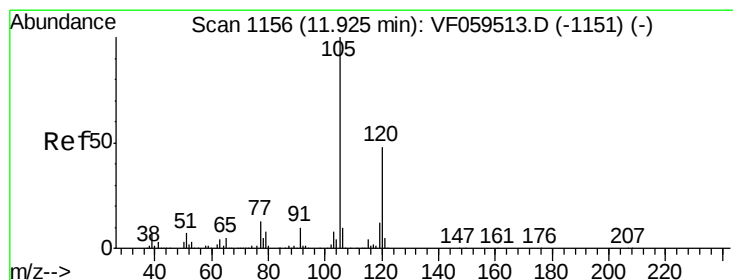
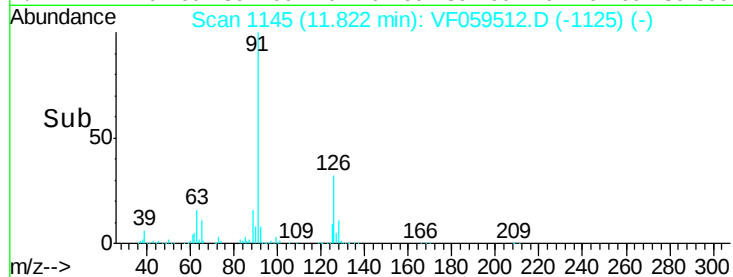
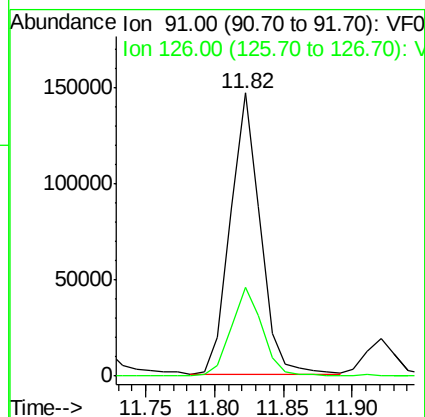
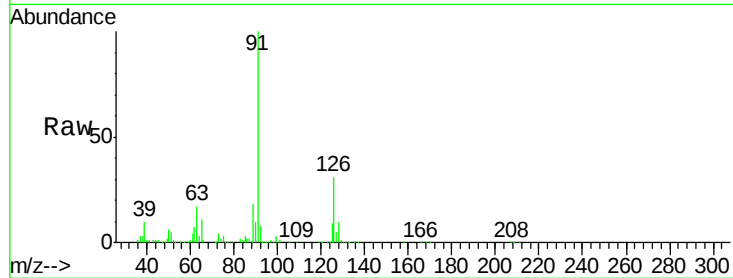
126 31.5 15.7 47.1

Manual Integrations

APPROVED

apatel

7/18/2018 3:16:04 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.71 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VF059512.D

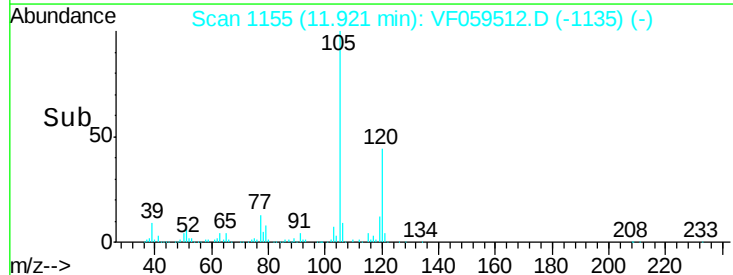
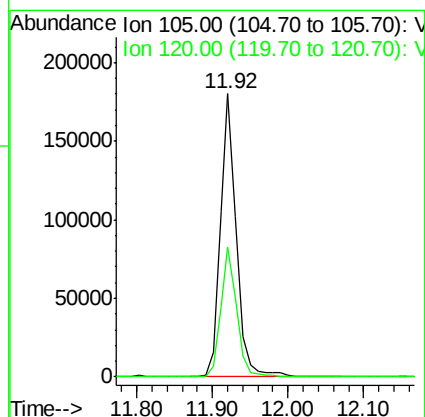
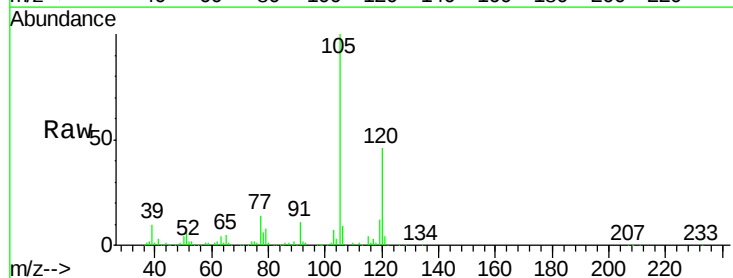
Acq: 17 Jul 2018 17:34

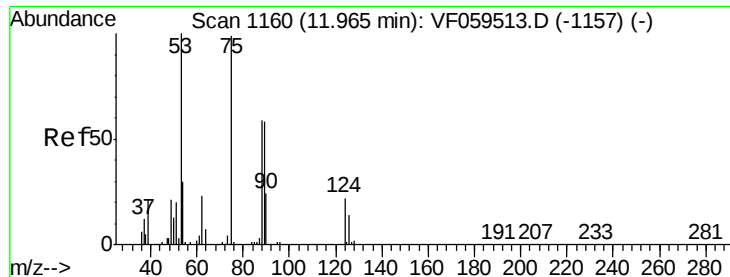
Tgt Ion:105 Resp: 267567

Ion Ratio Lower Upper

105 100

120 46.0 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 17.11 ug/l m

RT: 11.97 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 21028

Ion Ratio Lower Upper

75 100

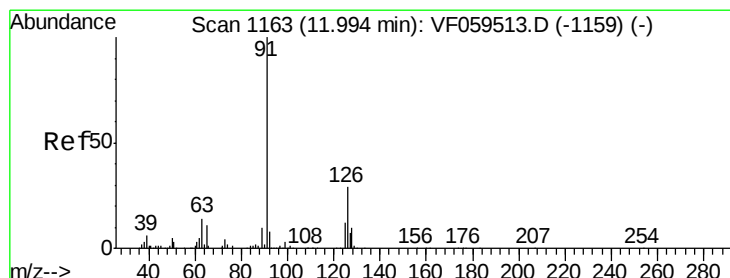
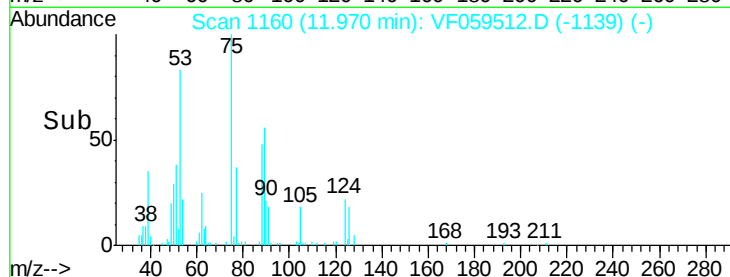
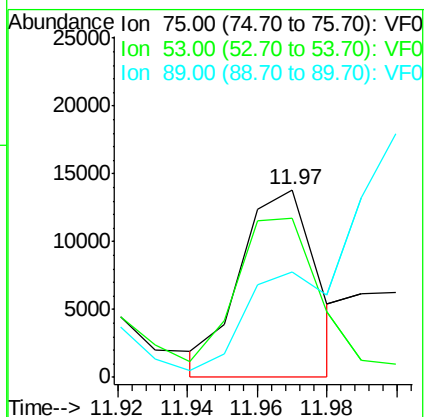
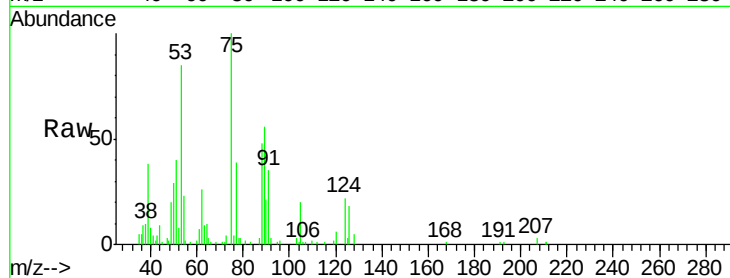
53 84.9 84.6 127.0

89 56.2 48.2 72.4

Manual Integrations
APPROVED

apatel

7/18/2018 3:16:04 PM



#82

4-Chlorotoluene

Concen: 21.43 ug/l

RT: 12.00 min Scan# 1163

Delta R.T. 0.01 min

Lab File: VF059512.D

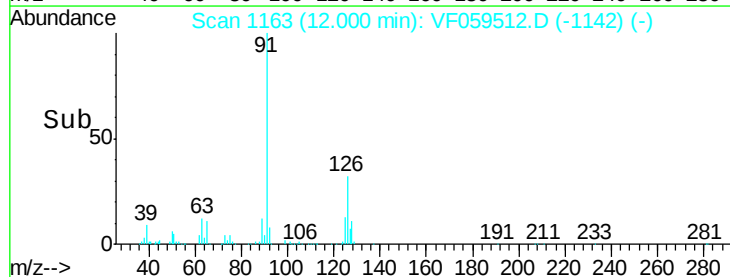
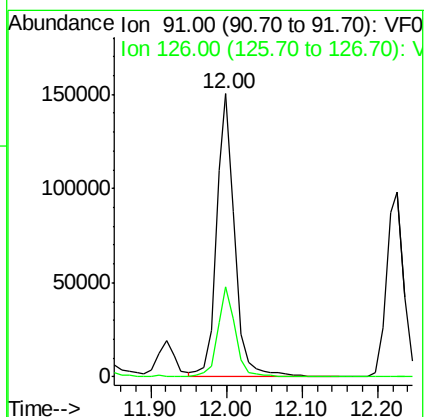
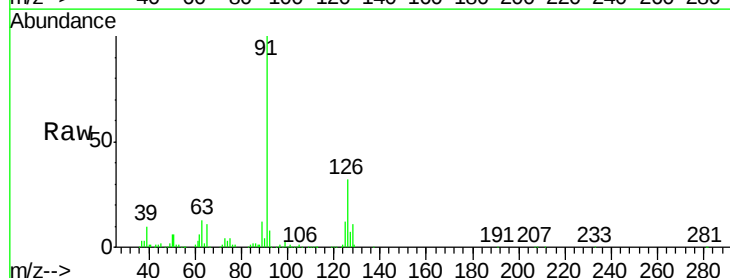
Acq: 17 Jul 2018 17:34

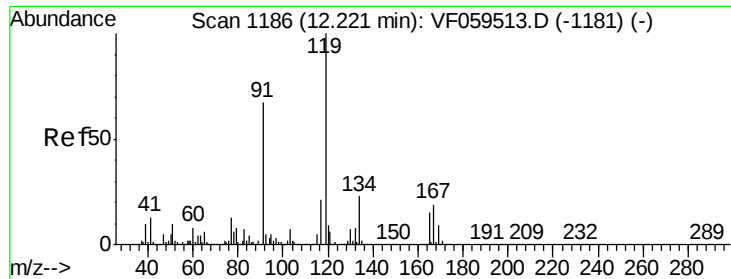
Tgt Ion: 91 Resp: 249090

Ion Ratio Lower Upper

91 100

126 32.0 14.4 43.4





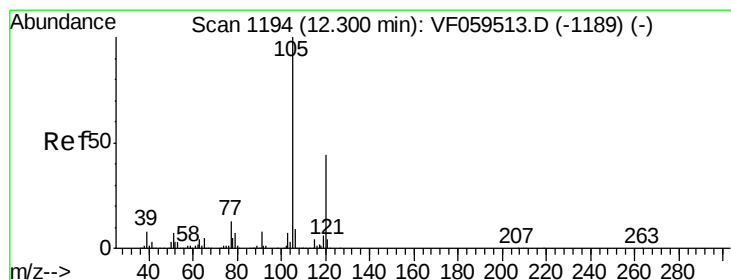
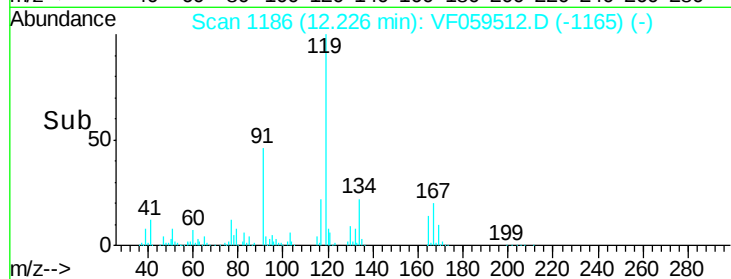
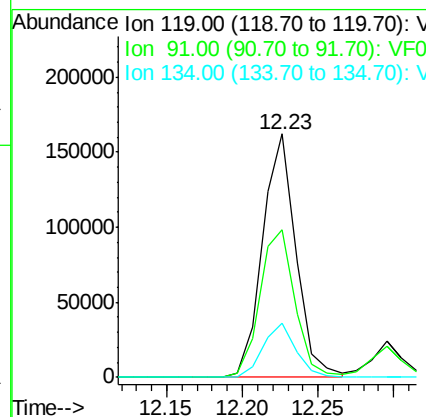
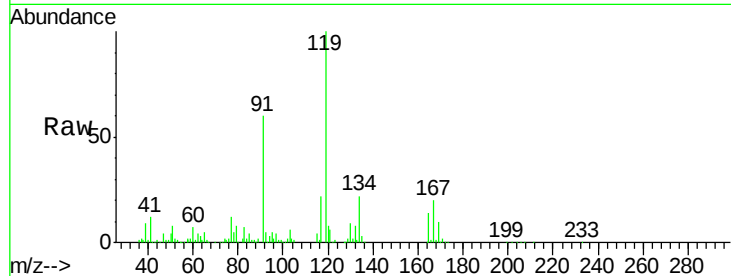
#83
 tert-Butylbenzene
 Concen: 21.70 ug/l
 RT: 12.23 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.5	33.5	100.5
134	22.2	11.3	33.8

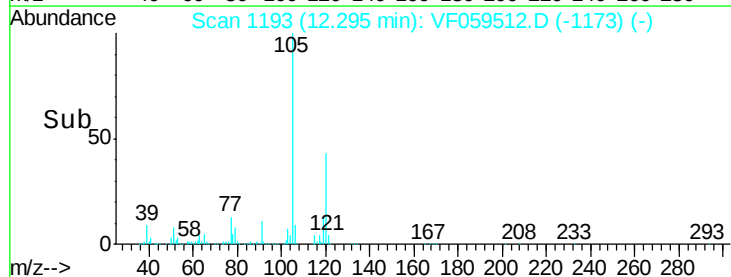
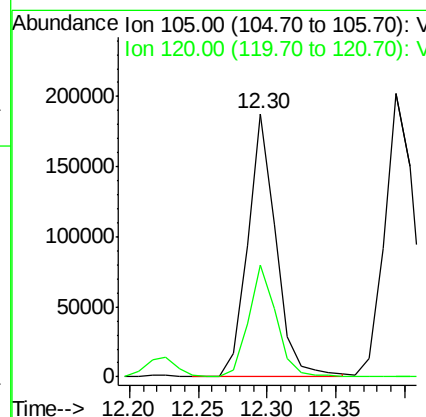
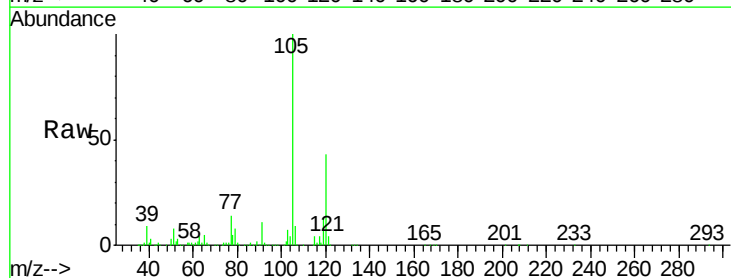
Manual Integrations
 APPROVED

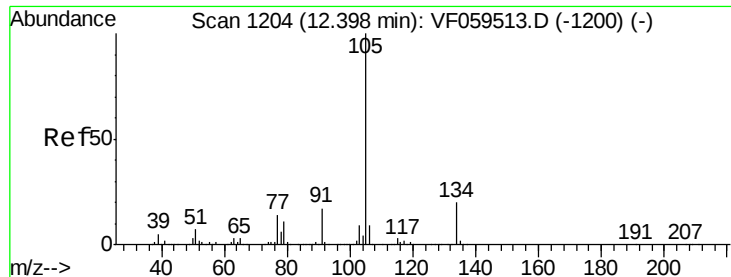
apatel
 7/18/2018 3:16:04 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.74 ug/l
 RT: 12.30 min Scan# 1193
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.7	22.5	67.5





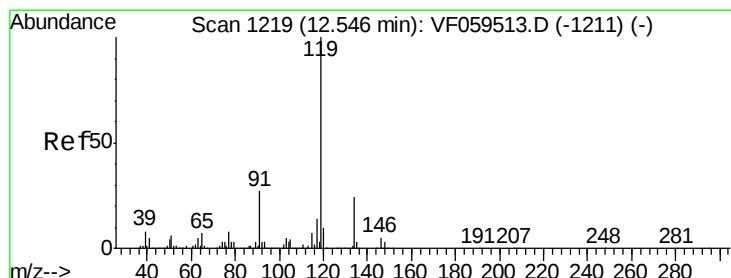
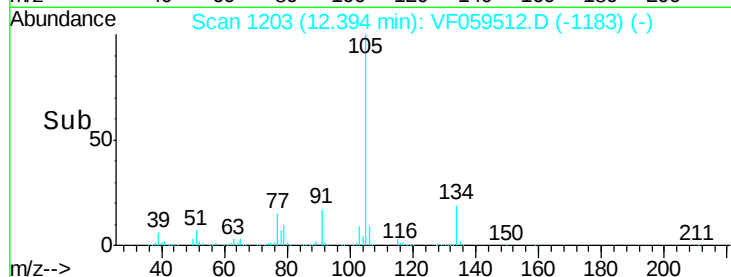
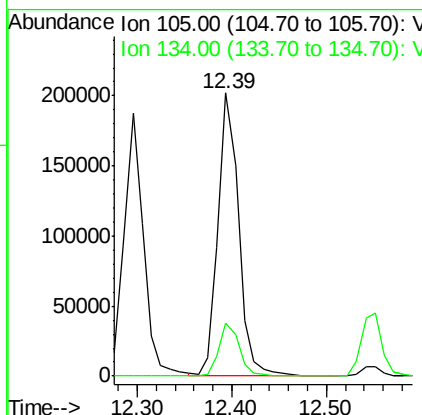
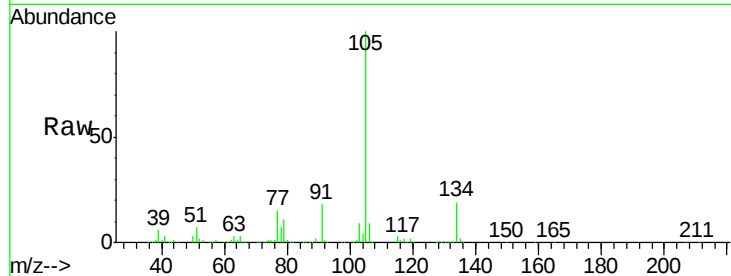
#85
 sec-Butylbenzene
 Concen: 21.06 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.8	10.1	30.1

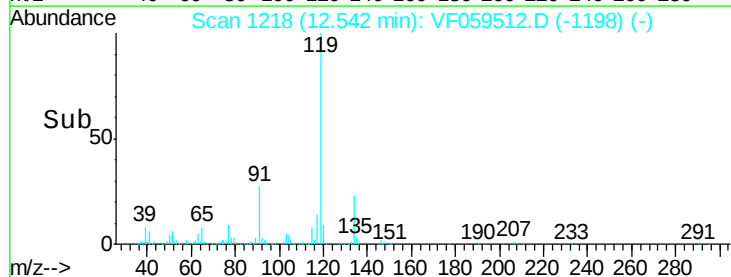
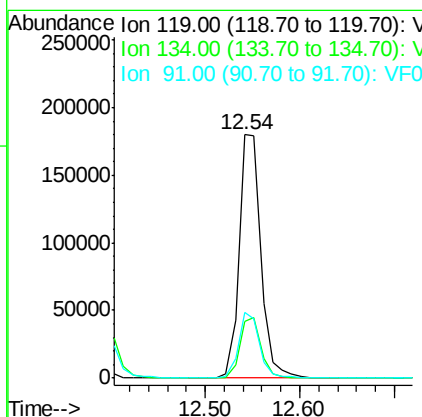
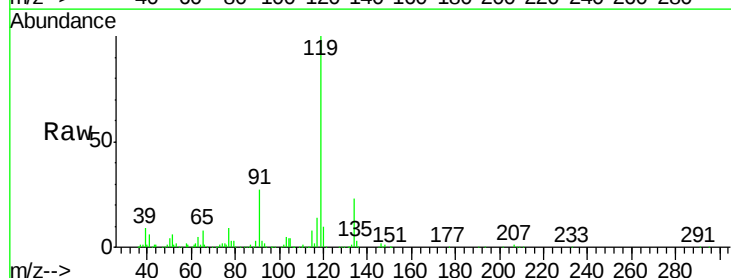
Manual Integrations
 APPROVED

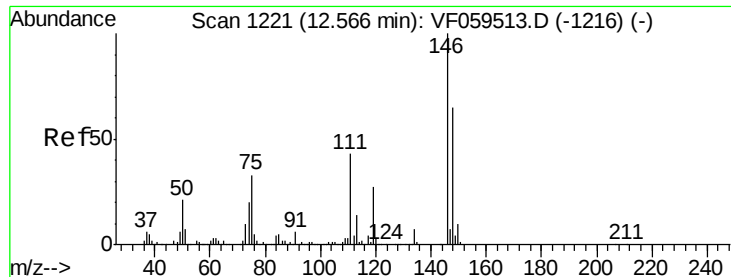
apatel
 7/18/2018 3:16:04 PM



#86
 p-Isopropyltoluene
 Concen: 22.21 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.2	12.0	36.0
91	27.0	13.5	40.4





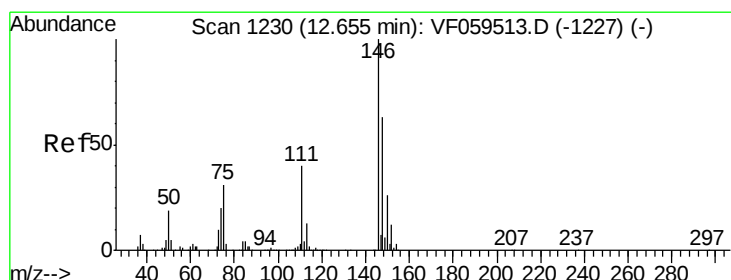
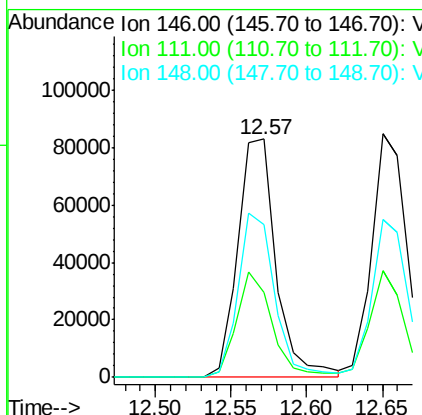
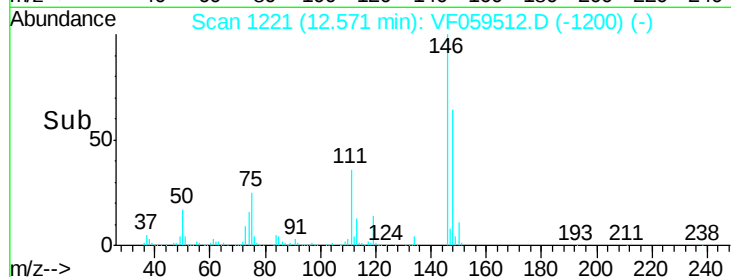
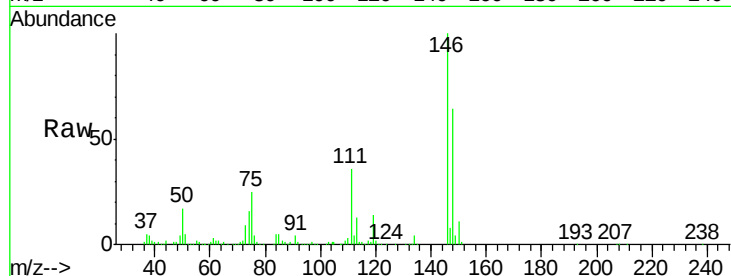
#87
 1,3-Dichlorobenzene
 Concen: 21.09 ug/l
 RT: 12.57 min Scan# 1221
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.8	21.4	64.3
148	64.0	32.7	98.1

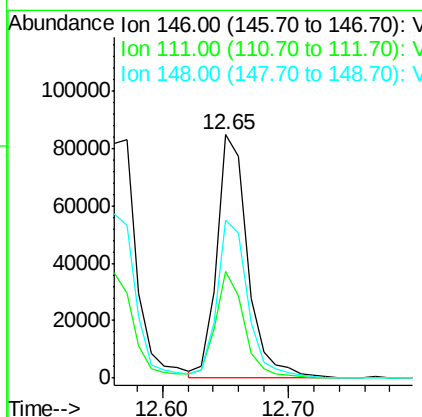
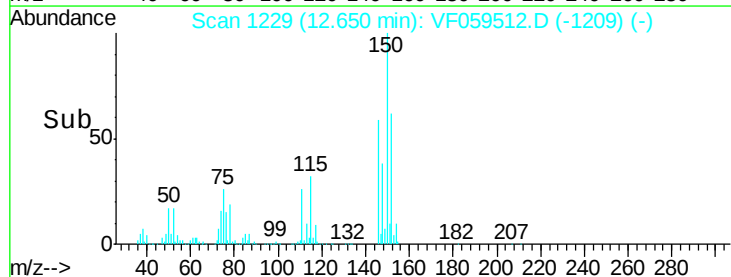
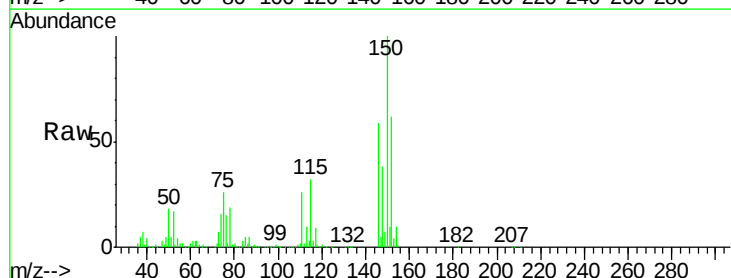
Manual Integrations
 APPROVED

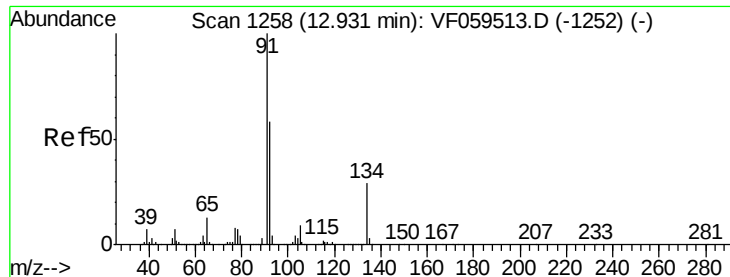
apatel
 7/18/2018 3:16:04 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.38 ug/l
 RT: 12.65 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	20.0	59.9
148	65.0	31.5	94.5





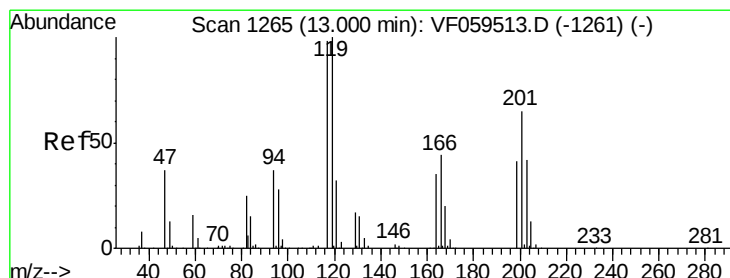
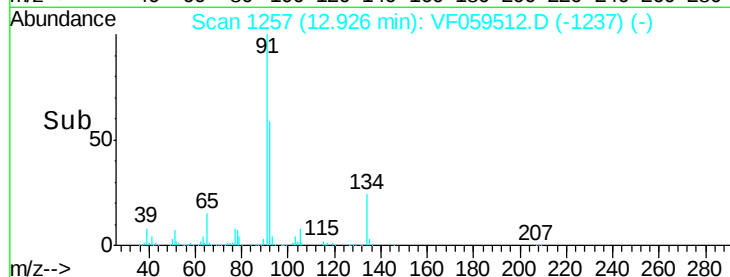
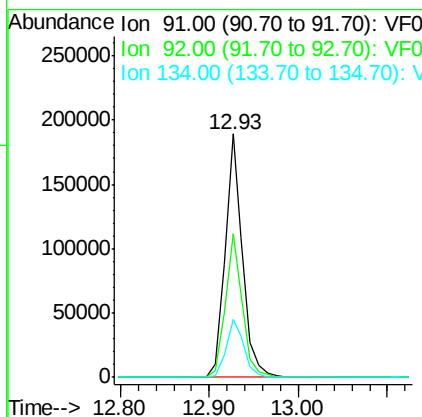
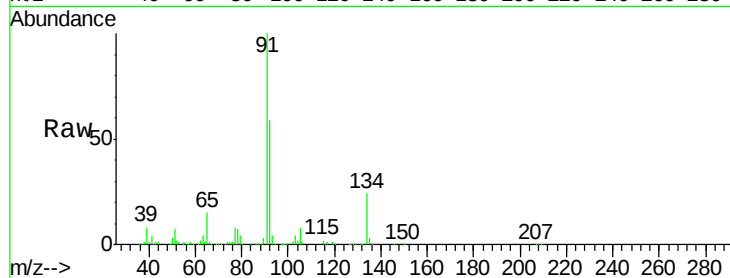
#89
n-Butylbenzene
Concen: 22.01 ug/l
RT: 12.93 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.1	87.3
134	23.6	14.3	42.9

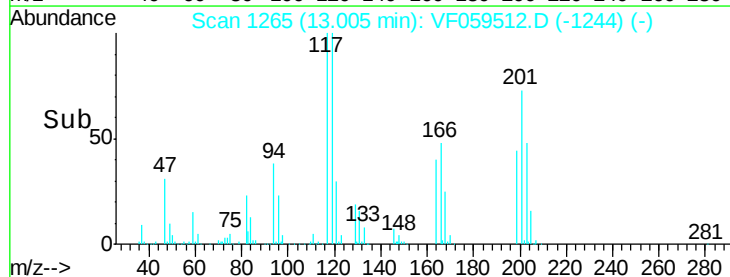
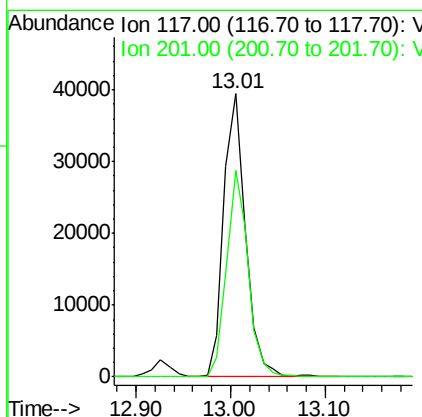
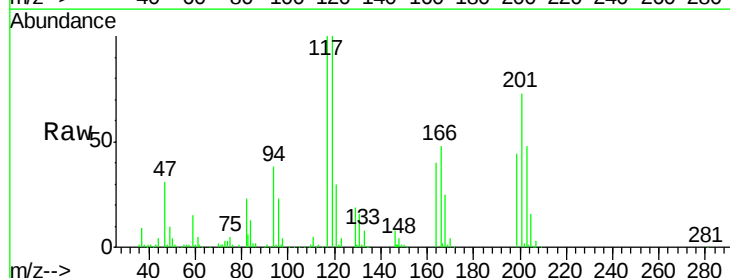
Manual Integrations
APPROVED

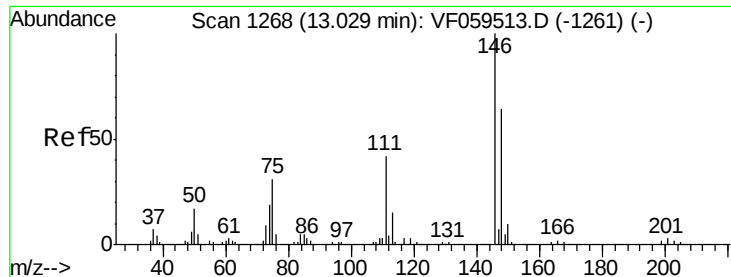
apatel
7/18/2018 3:16:04 PM



#90
Hexachloroethane
Concen: 21.82 ug/l
RT: 13.01 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VF059512.D
Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.8	32.6	98.0





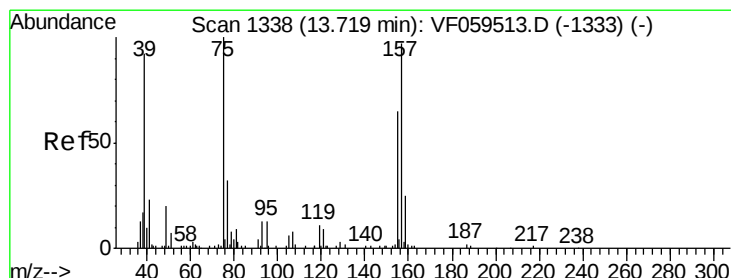
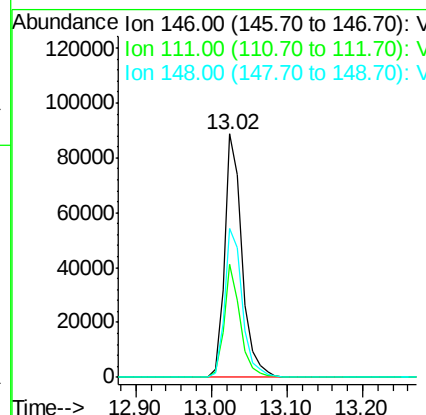
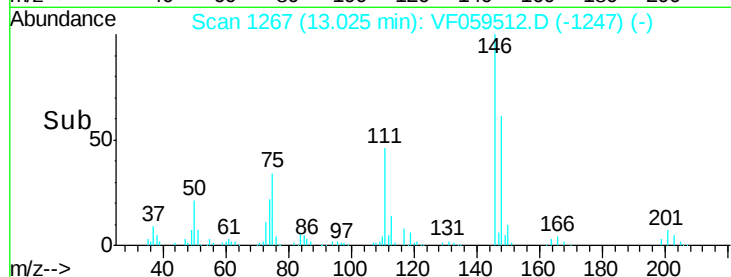
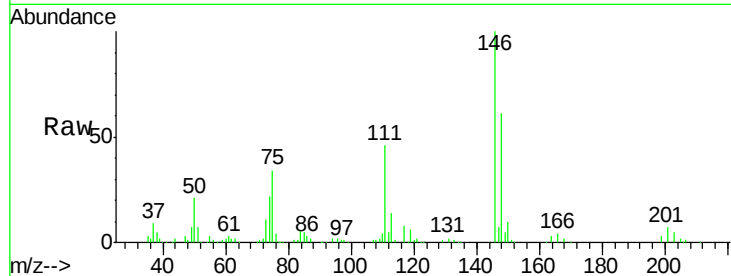
#91
 1,2-Dichlorobenzene
 Concen: 22.11 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	142593		
111	46.3	21.1	63.1	
148	61.3	32.3	96.8	

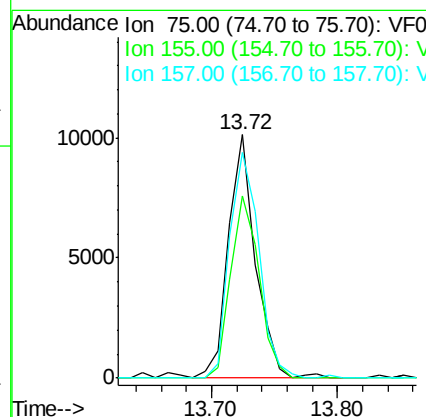
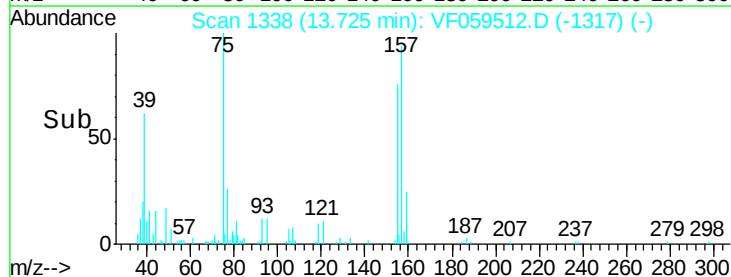
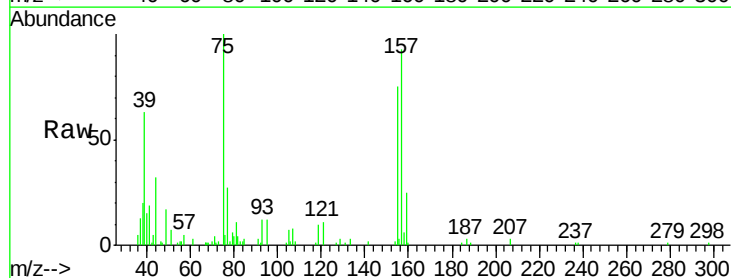
Manual Integrations
 APPROVED

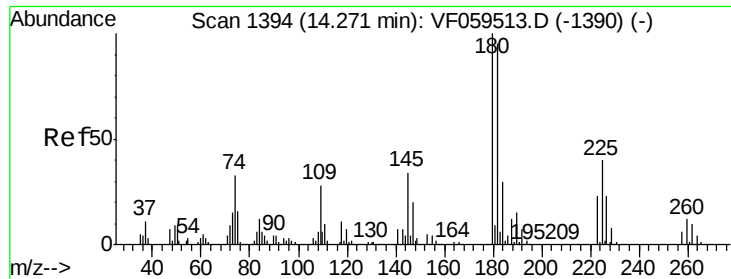
apatel
 7/18/2018 3:16:04 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.63 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	15095		
155	78.4	32.8	98.3	
157	92.8	48.5	145.5	





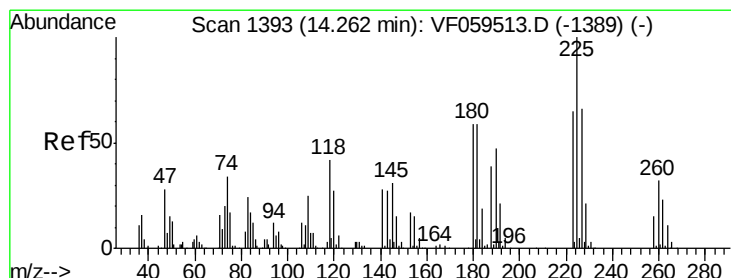
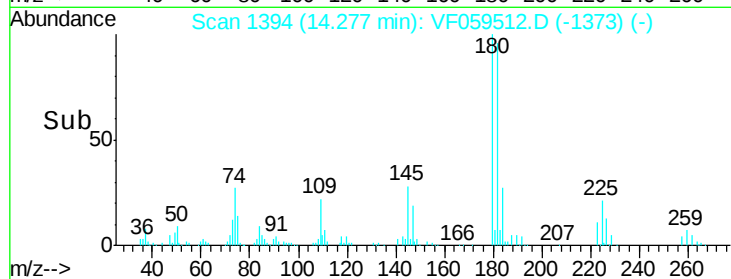
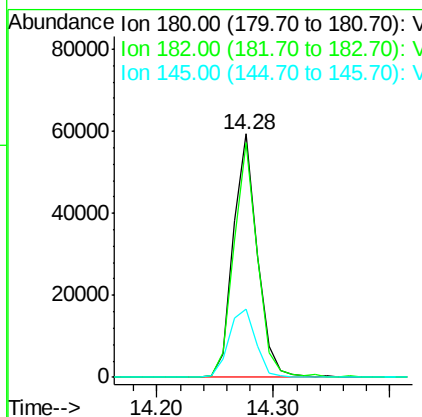
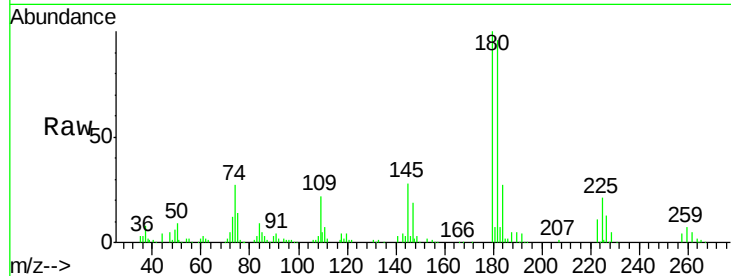
#93
 1,2,4-Trichlorobenzene
 Concen: 21.15 ug/l
 RT: 14.28 min Scan# 1394
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	85270		
182	96.3		47.5	142.5
145	28.2		17.3	51.7

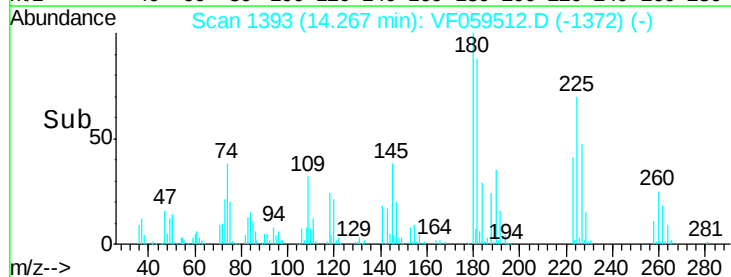
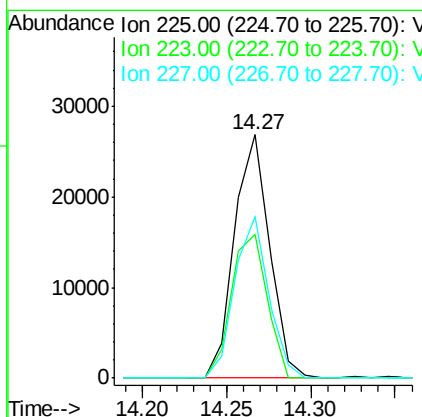
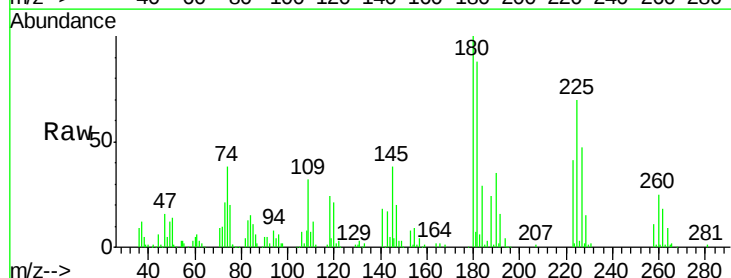
Manual Integrations
 APPROVED

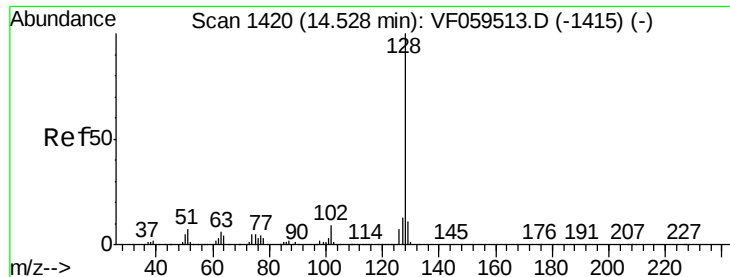
apatel
 7/18/2018 3:16:04 PM



#94
 Hexachlorobutadiene
 Concen: 21.79 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VF059512.D
 Acq: 17 Jul 2018 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	38887		
223	59.1		32.3	96.8
227	66.6		33.2	99.6





#95

Naphthalene

Concen: 18.95 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Instrument :

MSVOA_F

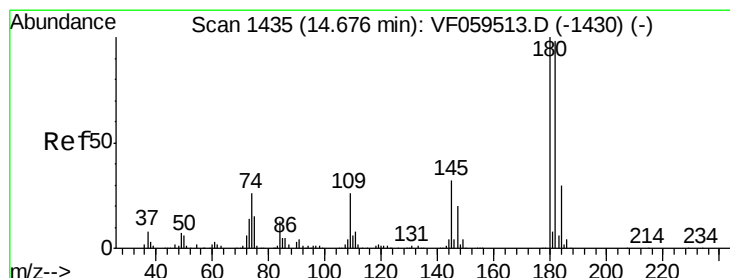
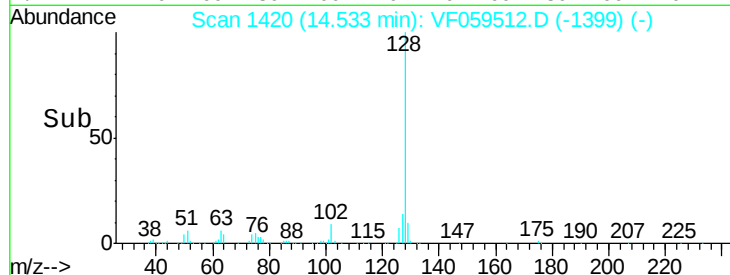
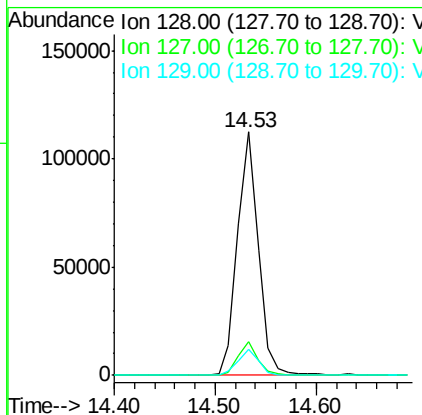
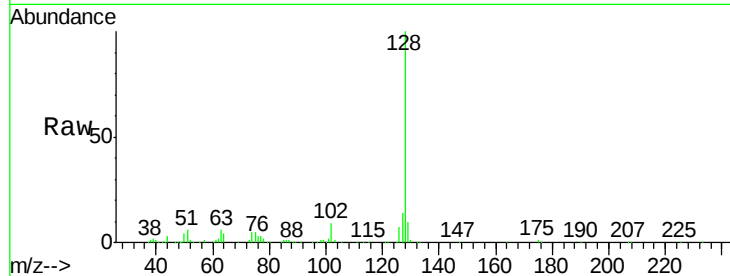
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	162605
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.2	15.2
129	10.5	9.0	13.4

Manual Integrations
APPROVED

apatel
7/18/2018 3:16:04 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.08 ug/l

RT: 14.68 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VF059512.D

Acq: 17 Jul 2018 17:34

Tgt Ion:	180	Resp:	70626
Ion Ratio	Lower	Upper	
180	100		
182	92.0	48.8	146.4
145	28.1	16.2	48.6

