

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062918\
 Data File : VF059379.D
 Acq On : 29 Jun 2018 16:23
 Operator : VA/AP
 Sample : VF0629SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Manual Integrations
 APPROVED

apatel
 7/2/2018 1:11:53 PM

Quant Time: Jun 30 00:06:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	281529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	442415	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	438317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	270211	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	164130	45.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.24%	
35) Dibromofluoromethane	4.28	113	147230	45.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.10%	
50) Toluene-d8	7.70	98	350703	43.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.64%	
62) 4-Bromofluorobenzene	11.50	95	201533	44.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	52057	20.24	ug/l	100
3) Chloromethane	1.08	50	34667	20.06	ug/l	100
4) Vinyl Chloride	1.14	62	36606	21.52	ug/l	96
5) Bromomethane	1.33	94	23211	21.62	ug/l	98
6) Chloroethane	1.43	64	16218	18.93	ug/l #	85
7) Trichlorofluoromethane	1.48	101	67481m	20.06	ug/l	
8) Diethyl Ether	1.69	74	19014	22.05	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.89	101	40385	20.57	ug/l	92
10) Methyl Iodide	1.95	142	71443	19.95	ug/l	98
11) Tert butyl alcohol	2.67	59	24406	100.79	ug/l #	90
12) 1,1-Dichloroethene	1.85	96	37013	22.30	ug/l	83
13) Acrolein	2.08	56	14490	115.06	ug/l	87
14) Allyl chloride	2.18	41	68535	22.00	ug/l	88
15) Acrylonitrile	3.06	53	49314	115.65	ug/l	88
16) Acetone	2.33	43	108037	113.36	ug/l	99
17) Carbon Disulfide	1.86	76	78838	20.19	ug/l	96
18) Methyl Acetate	2.44	43	38071	22.55	ug/l	95
19) Methyl tert-butyl Ether	2.52	73	134651	21.75	ug/l #	92
20) Methylene Chloride	2.32	84	43482m	16.34	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	36300	20.50	ug/l	91
22) Diisopropyl ether	2.92	45	155292	22.51	ug/l	99
23) Vinyl Acetate	3.32	43	509555	115.97	ug/l	100
24) 1,1-Dichloroethane	2.99	63	96812	22.63	ug/l	98
25) 2-Butanone	4.49	43	138306	124.31	ug/l	94
26) 2,2-Dichloropropane	3.74	77	61990	21.01	ug/l	99
27) cis-1,2-Dichloroethene	3.62	96	57819	21.51	ug/l	80
28) Bromochloromethane	3.87	49	43618	24.38	ug/l	92
29) Tetrahydrofuran	4.24	42	59304	122.24	ug/l	97
30) Chloroform	4.01	83	132129	21.34	ug/l	93
31) Cyclohexane	3.84	56	60354	21.54	ug/l	98
32) 1,1,1-Trichloroethane	4.26	97	95218	21.01	ug/l	93
36) 1,1-Dichloropropene	4.44	75	80734	20.89	ug/l	98
37) Ethyl Acetate	4.27	43	61393	24.06	ug/l	88
38) Carbon Tetrachloride	4.15	117	102078m	20.93	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062918\
 Data File : VF059379.D
 Acq On : 29 Jun 2018 16:23
 Operator : VA/AP
 Sample : VF0629SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0629SBS01

Manual Integrations
 APPROVED

apatel
 7/2/2018 1:11:53 PM

Quant Time: Jun 30 00:06:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.61	83	75141	21.94	ug/l	94
40) Benzene	4.79	78	184416	21.52	ug/l	96
41) Methacrylonitrile	4.90	41	28805	21.85	ug/l #	89
42) 1,2-Dichloroethane	5.10	62	104844	20.94	ug/l	99
43) Isopropyl Acetate	7.10	43	73350	22.78	ug/l #	98
44) Trichloroethene	5.66	130	61835	21.04	ug/l	96
45) 1,2-Dichloropropane	6.39	63	52245	21.34	ug/l	96
46) Dibromomethane	6.24	93	41253	19.41	ug/l	97
47) Bromodichloromethane	6.53	83	102762	19.98	ug/l	99
48) Methyl methacrylate	6.86	41	48250	22.36	ug/l	91
49) 1,4-Dioxane	6.86	88	5277	434.32	ug/l #	83
51) 4-Methyl-2-Pentanone	8.39	43	265043	111.13	ug/l	94
52) Toluene	7.77	92	130716	20.39	ug/l	99
53) t-1,3-Dichloropropene	8.41	75	102408	21.84	ug/l	95
54) cis-1,3-Dichloropropene	7.44	75	104176	20.45	ug/l	96
55) 1,1,2-Trichloroethane	8.62	97	53057	21.31	ug/l	93
56) Ethyl methacrylate	8.74	69	64439	20.89	ug/l	93
57) 1,3-Dichloropropane	8.99	76	89279	20.91	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.77	63	23156	100.11	ug/l	100
59) 2-Hexanone	9.62	43	233055	121.38	ug/l	94
60) Dibromochloromethane	8.85	129	79206	20.61	ug/l	97
61) 1,2-Dibromoethane	9.12	107	64648	21.41	ug/l	89
64) Tetrachloroethene	8.29	164	61859	21.76	ug/l	95
65) Chlorobenzene	9.93	112	171858	21.16	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.05	131	74044	21.08	ug/l	91
67) Ethyl Benzene	10.02	91	297598	21.60	ug/l	98
68) m/p-Xylenes	10.25	106	214759	43.79	ug/l	99
69) o-Xylene	10.81	106	122323	22.30	ug/l	92
70) Styrene	10.89	104	175284	20.98	ug/l	97
71) Bromoform	10.88	173	51522	21.40	ug/l	94
73) Isopropylbenzene	11.22	105	349635	22.21	ug/l	98
74) N-amyl acetate	11.45	43	129620	22.69	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	81987	20.62	ug/l	92
76) 1,2,3-Trichloropropane	11.88	75	66028	22.02	ug/l	96
77) Bromobenzene	11.58	156	88826	20.34	ug/l	92
78) n-propylbenzene	11.68	91	412643	21.83	ug/l	95
79) 2-Chlorotoluene	11.80	91	243025	21.04	ug/l	93
80) 1,3,5-Trimethylbenzene	11.91	105	299716	21.74	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.95	75	37496	21.01	ug/l	98
82) 4-Chlorotoluene	11.98	91	264323	21.37	ug/l	90
83) tert-Butylbenzene	12.20	119	295793	21.45	ug/l	92
84) 1,2,4-Trimethylbenzene	12.28	105	312601	21.53	ug/l	97
85) sec-Butylbenzene	12.38	105	401076	21.94	ug/l	98
86) p-Isopropyltoluene	12.53	119	330461	21.54	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	164821	20.11	ug/l	96
88) 1,4-Dichlorobenzene	12.64	146	164543	21.10	ug/l	99
89) n-Butylbenzene	12.91	91	330271	21.21	ug/l	97
90) Hexachloroethane	12.99	117	79583	20.81	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	167316	21.10	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.71	75	17157	19.47	ug/l	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062918\
Data File : VF059379.D
Acq On : 29 Jun 2018 16:23
Operator : VA/AP
Sample : VF0629SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBSD01

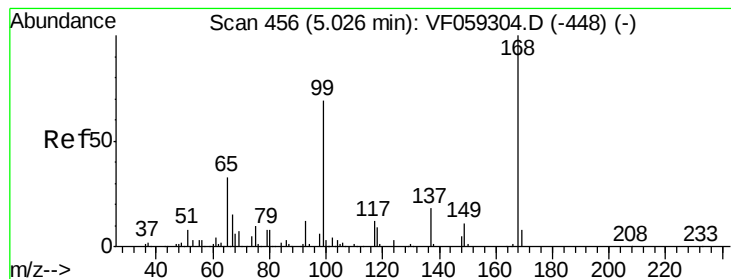
Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM

Quant Time: Jun 30 00:06:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	126818	21.63	ug/l	95
94) Hexachlorobutadiene	14.25	225	72003	21.99	ug/l	97
95) Naphthalene	14.52	128	255713	20.85	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	117272	21.12	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion:168 Resp: 281529

Ion Ratio Lower Upper

168 100

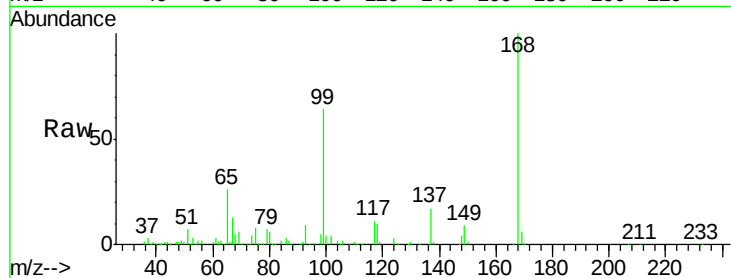
99 64.0 54.9 82.3

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

100000

80000

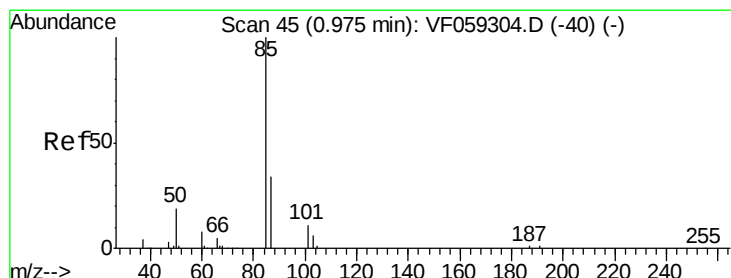
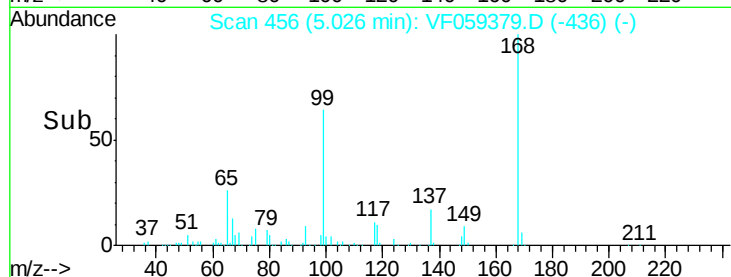
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.24 ug/l

RT: 0.97 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF059379.D

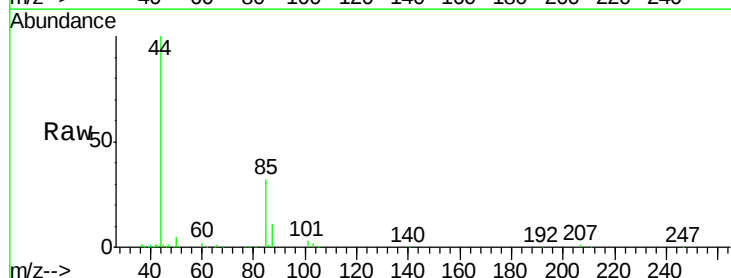
Acq: 29 Jun 2018 16:23

Tgt Ion: 85 Resp: 52057

Ion Ratio Lower Upper

85 100

87 34.2 17.1 51.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

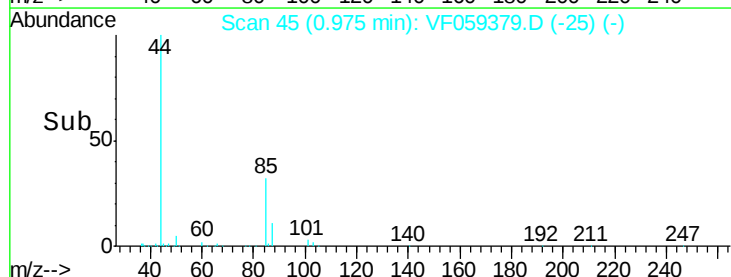
15000

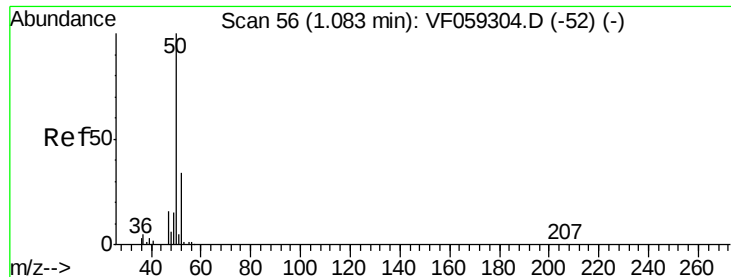
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.06 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tot Ion: 50 Resp: 34667

Ion Ratio Lower Upper

50 100

52 33.5 26.7 40.1

Instrument :

MSVOA_F

ClientSampleId :

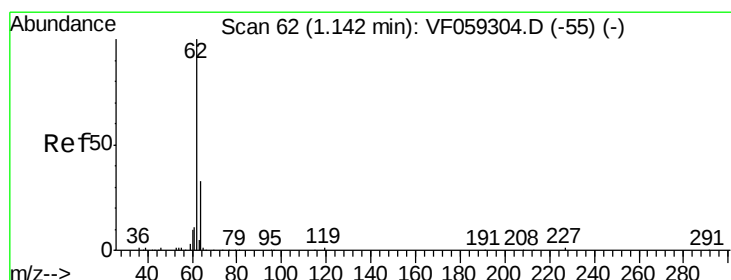
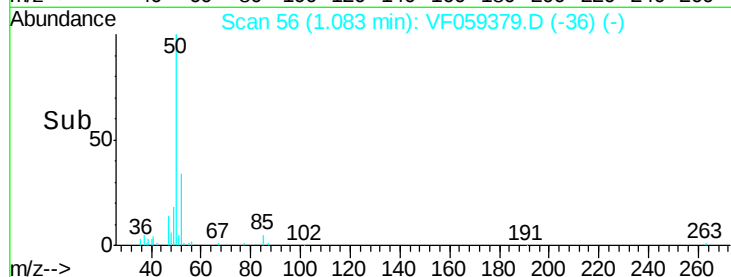
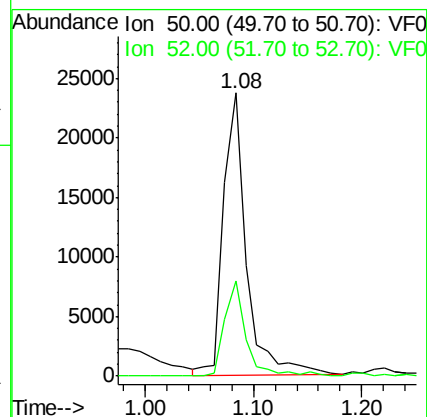
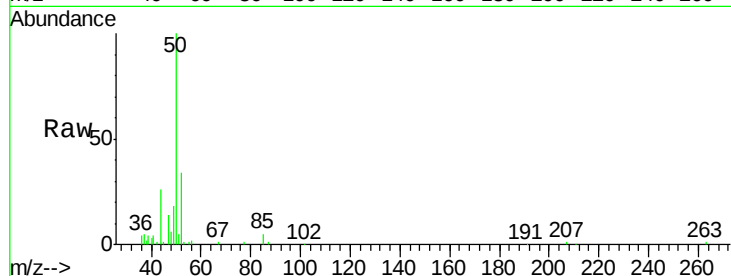
VF0629SBS01

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#4

Vinyl Chloride

Concen: 21.52 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059379.D

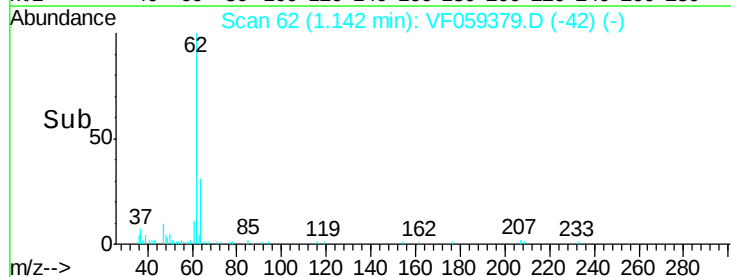
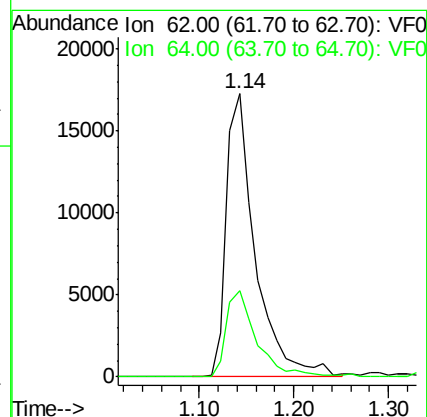
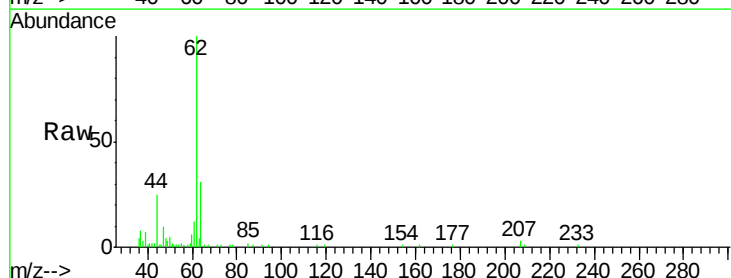
Acq: 29 Jun 2018 16:23

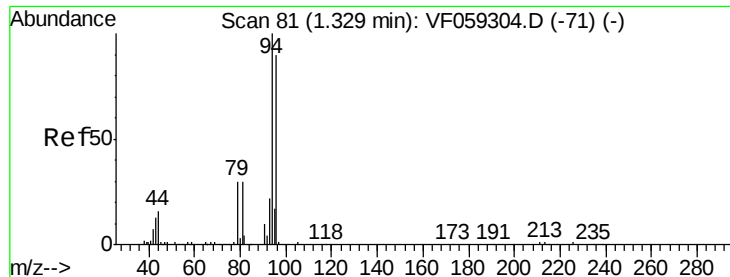
Tgt Ion: 62 Resp: 36606

Ion Ratio Lower Upper

62 100

64 30.6 26.3 39.5





#5

Bromomethane

Concen: 21.62 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 94 Resp: 23211

Ion Ratio Lower Upper

94 100

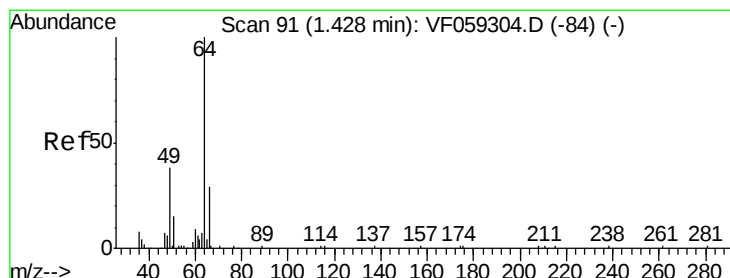
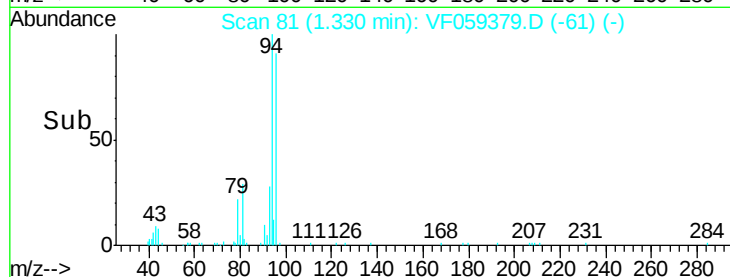
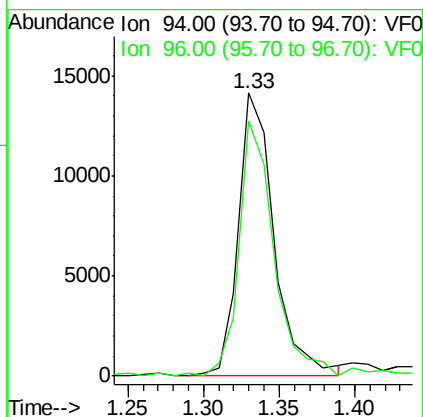
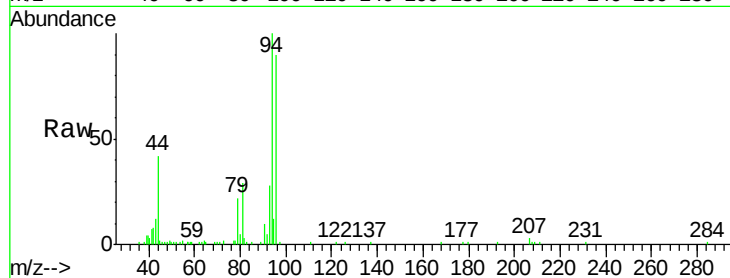
96 90.0 73.4 110.0

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#6

Chloroethane

Concen: 18.93 ug/l

RT: 1.43 min Scan# 91

Delta R.T. 0.00 min

Lab File: VF059379.D

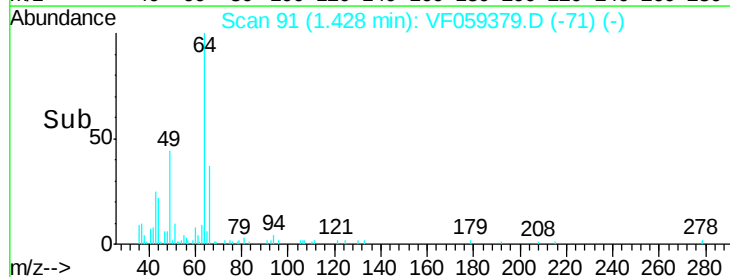
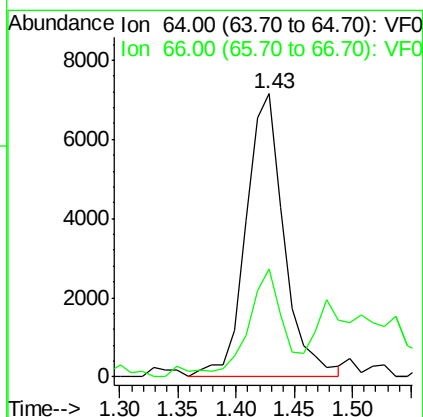
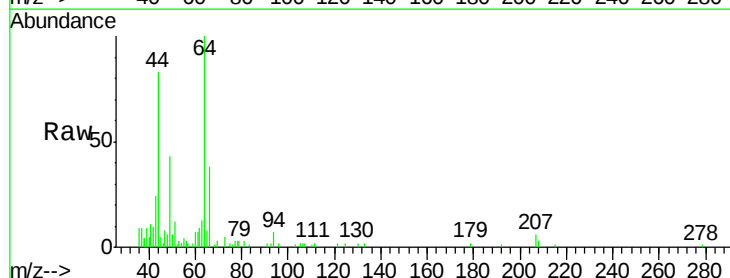
Acq: 29 Jun 2018 16:23

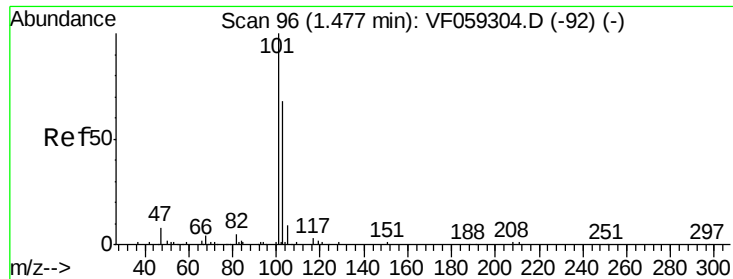
Tgt Ion: 64 Resp: 16218

Ion Ratio Lower Upper

64 100

66 38.1 23.9 35.9#





#7

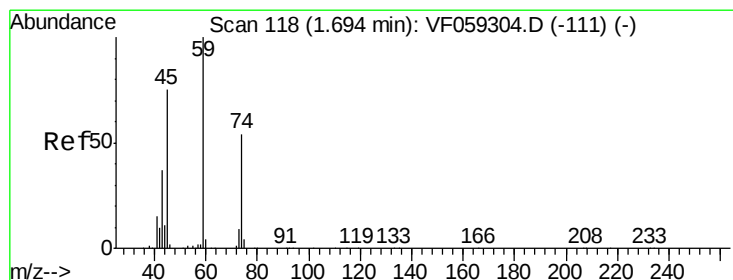
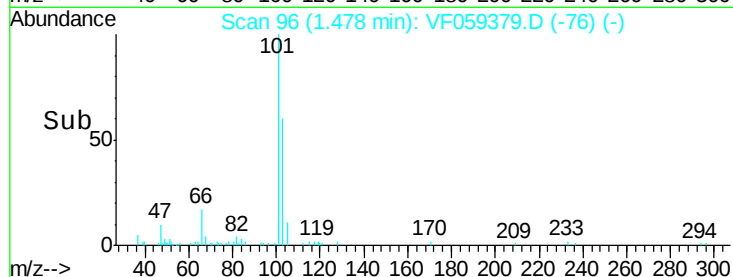
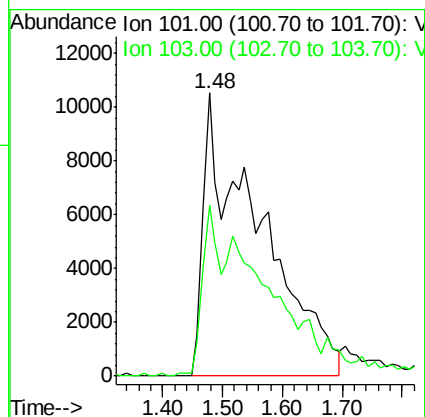
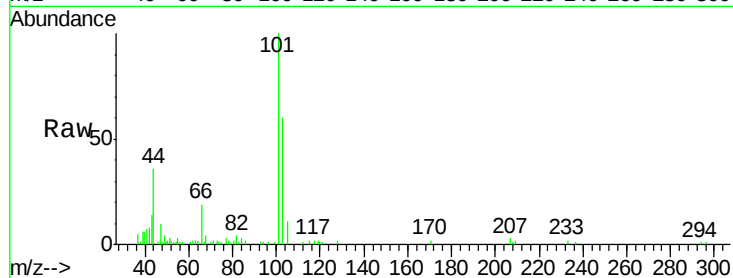
Trichlorofluoromethane
Concen: 20.06 ug/l m
RT: 1.48 min Scan# 96
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion:101 Resp: 67481
Ion Ratio Lower Upper
101 100
103 60.3 54.2 81.2

Manual Integrations
APPROVED

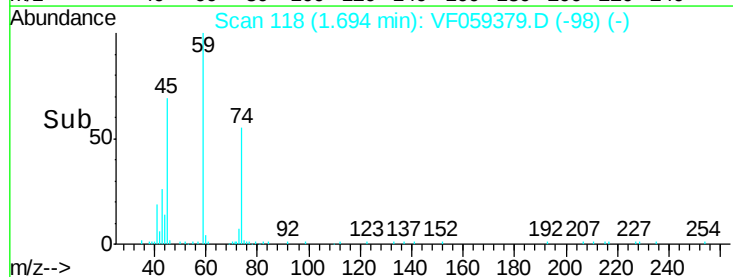
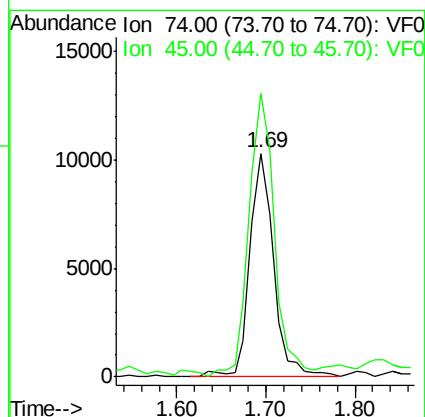
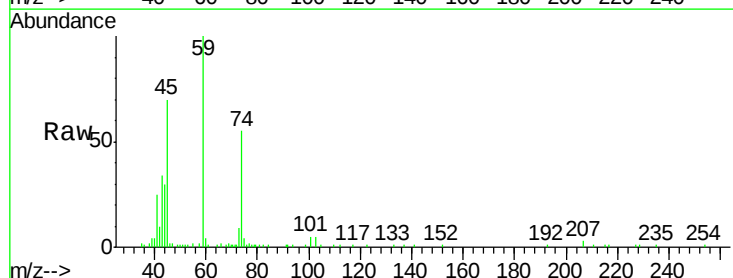
apatel
7/2/2018 1:11:53 PM

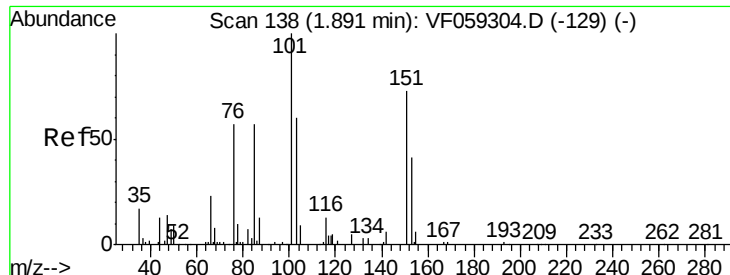


#8

Diethyl Ether
Concen: 22.05 ug/l
RT: 1.69 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion: 74 Resp: 19014
Ion Ratio Lower Upper
74 100
45 126.7 70.0 210.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.57 ug/l

RT: 1.89 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

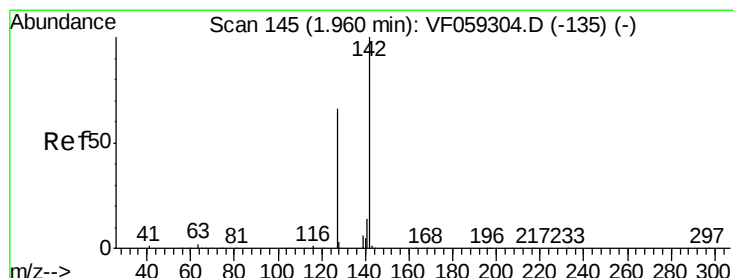
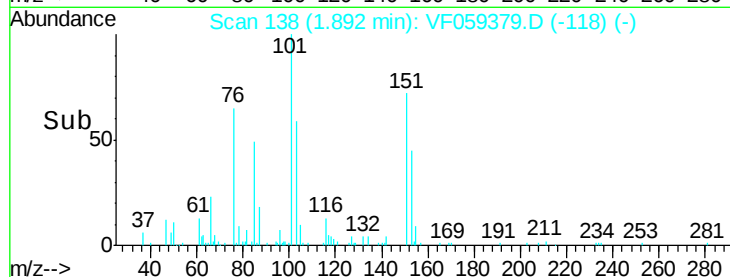
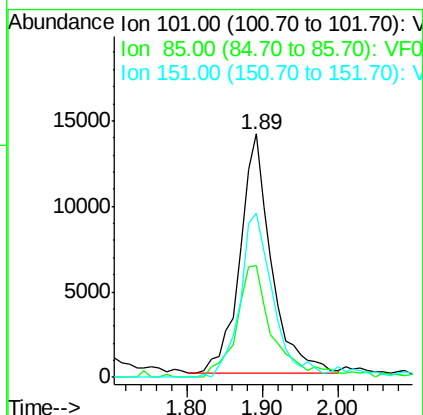
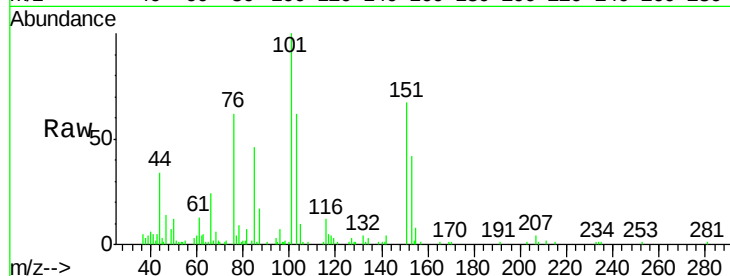
ClientSampleId :

VF0629SBS01

Tot Ion:	101	Resp:	40385
Ion Ratio	Lower	Upper	
101	100		
85	45.8	44.5	66.7
151	67.4	56.8	85.2

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#10

Methyl Iodide

Concen: 19.95 ug/l

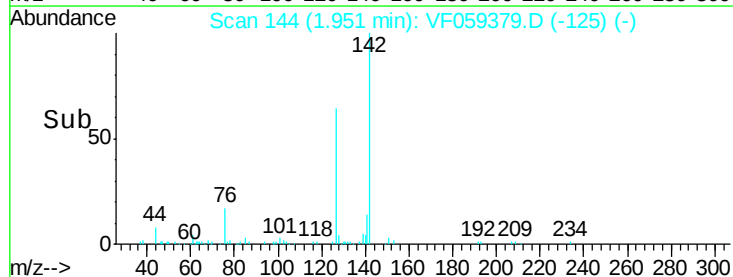
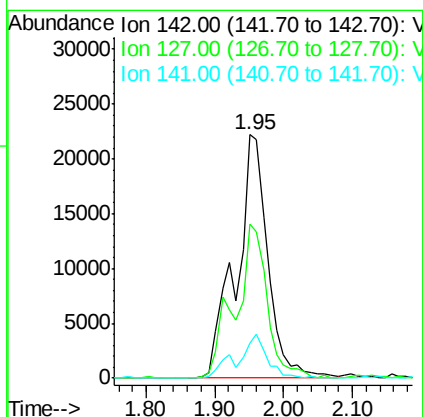
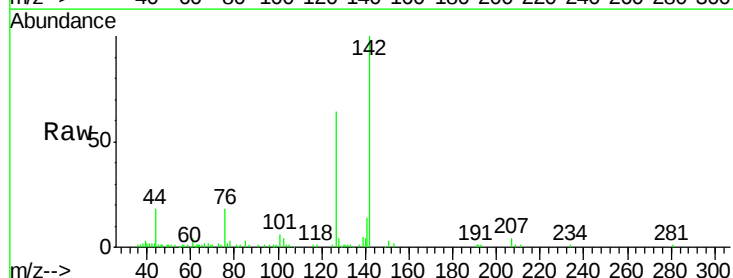
RT: 1.95 min Scan# 144

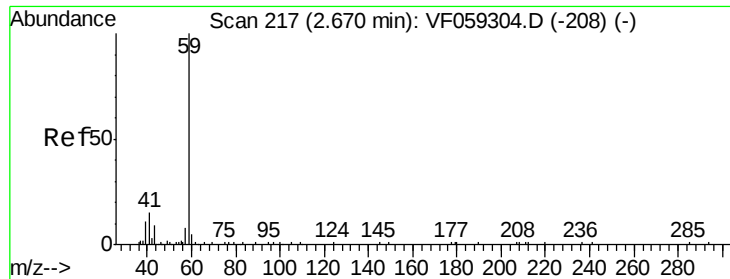
Delta R.T. -0.01 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	142	Resp:	71443
Ion Ratio	Lower	Upper	
142	100		
127	63.5	52.5	78.7
141	14.4	11.5	17.3





#11

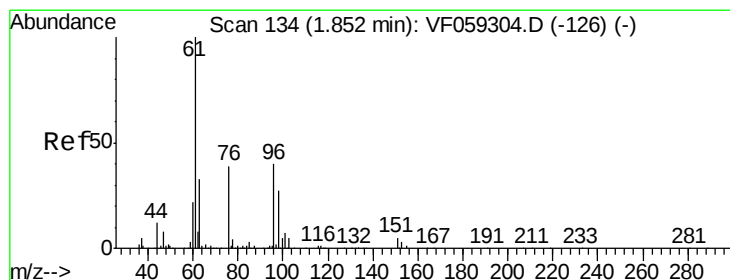
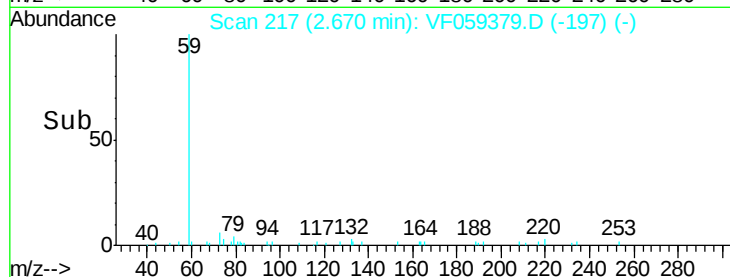
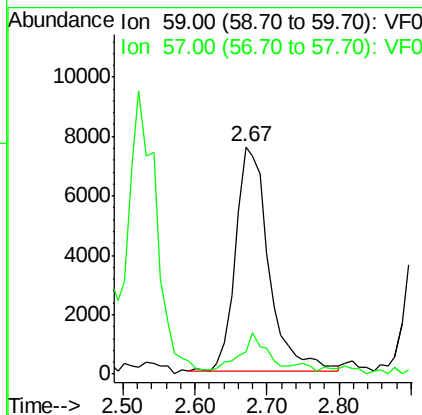
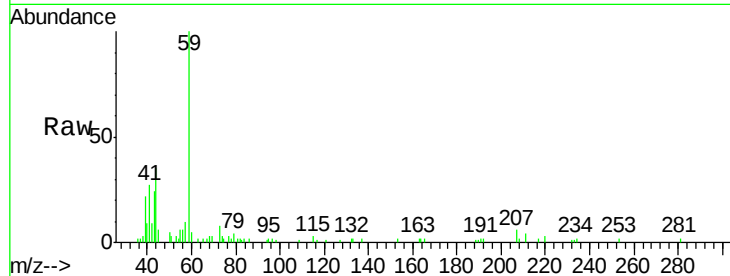
Tert butyl alcohol
Concen: 100.79 ug/l
RT: 2.67 min Scan# 217
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	11.0	16.4#

Manual Integrations
APPROVED

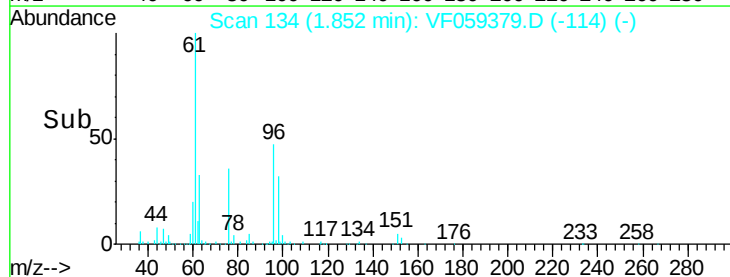
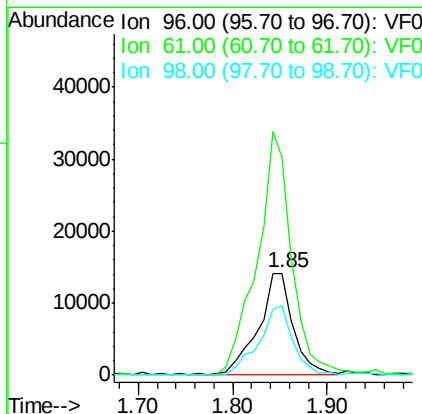
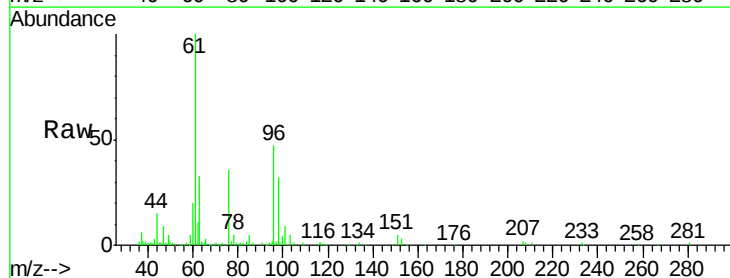
apatel
7/2/2018 1:11:53 PM

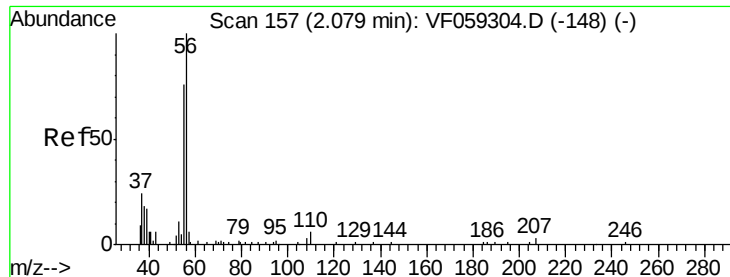


#12

1,1-Dichloroethene
Concen: 22.30 ug/l
RT: 1.85 min Scan# 134
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	214.0	201.1	301.7
98	68.3	53.9	80.9





#13

Acrolein

Concen: 115.06 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 56 Resp: 14490

Ion Ratio Lower Upper

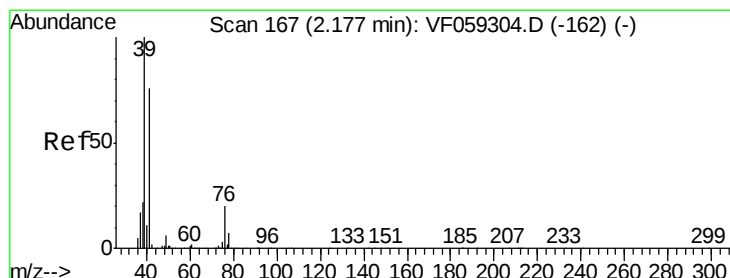
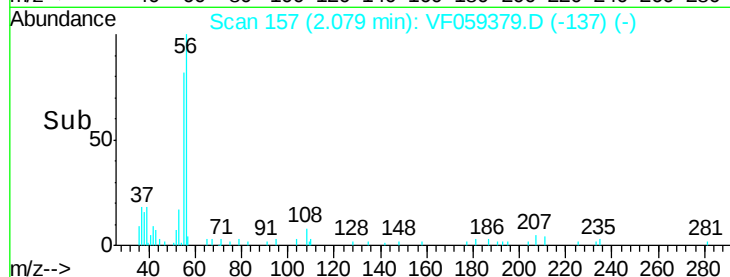
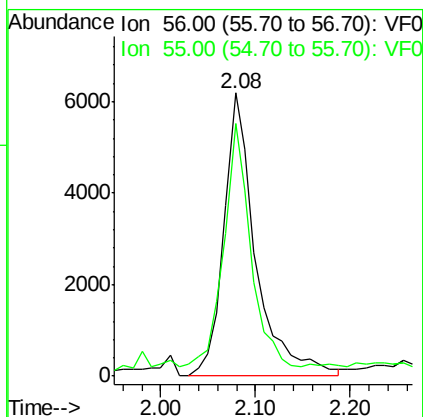
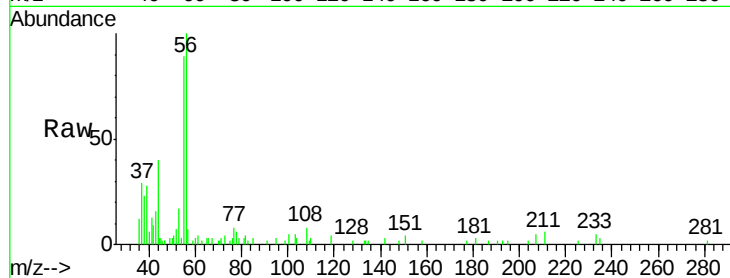
56 100

55 89.1 62.4 93.6

Manual Integrations
APPROVED

apatel

7/2/2018 1:11:53 PM



#14

Allyl chloride

Concen: 22.00 ug/l

RT: 2.18 min Scan# 167

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

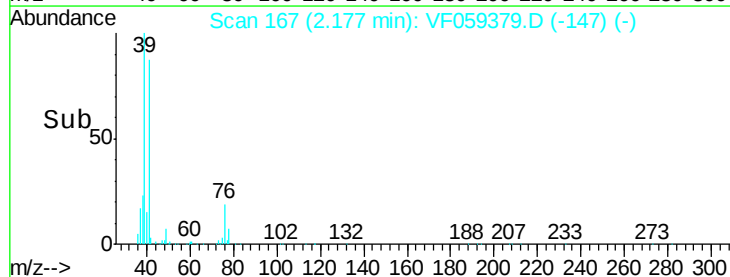
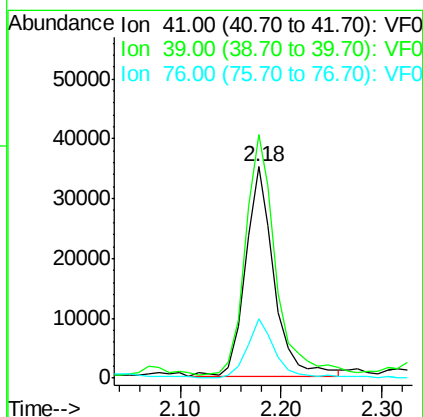
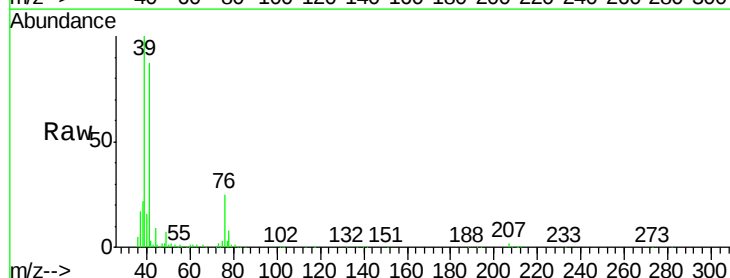
Tgt Ion: 41 Resp: 68535

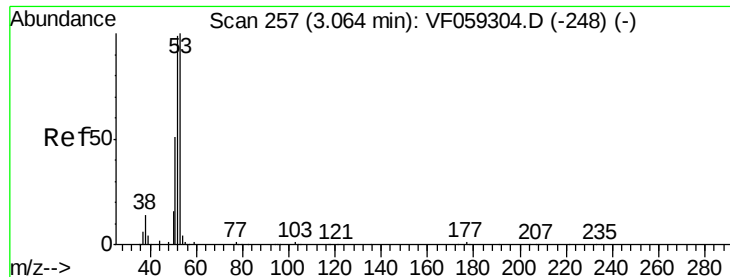
Ion Ratio Lower Upper

41 100

39 115.1 105.6 158.4

76 28.3 21.6 32.4





#15

Acrylonitrile

Concen: 115.65 ug/l

RT: 3.06 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

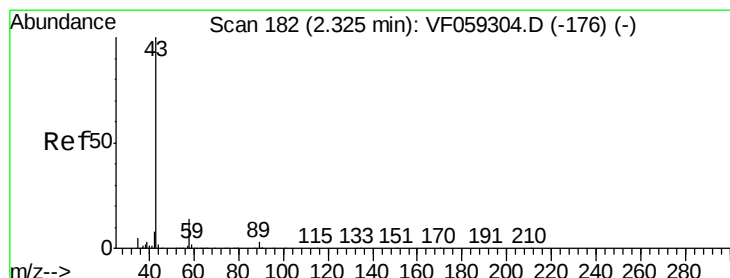
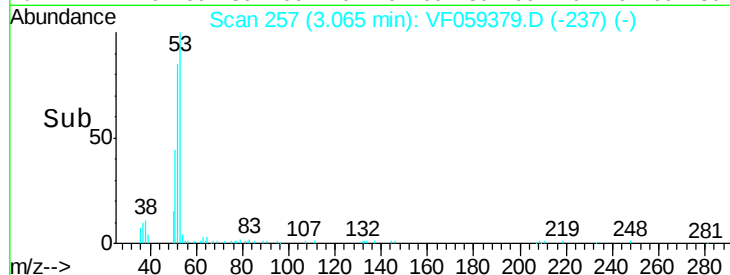
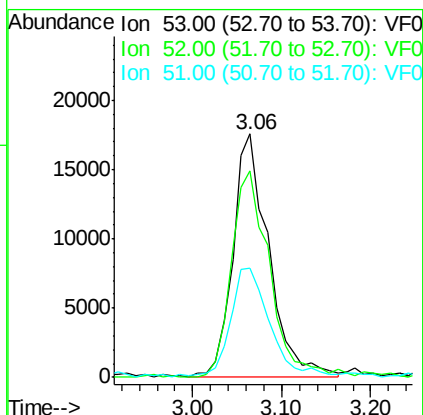
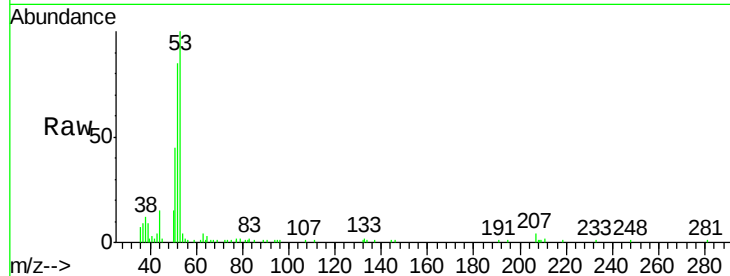
ClientSampleId :

VF0629SBS01

Tot Ion:	53	Resp:	49314
Ion	Ratio	Lower	Upper
53	100		
52	84.7	79.2	118.8
51	45.1	40.9	61.3

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#16

Acetone

Concen: 113.36 ug/l

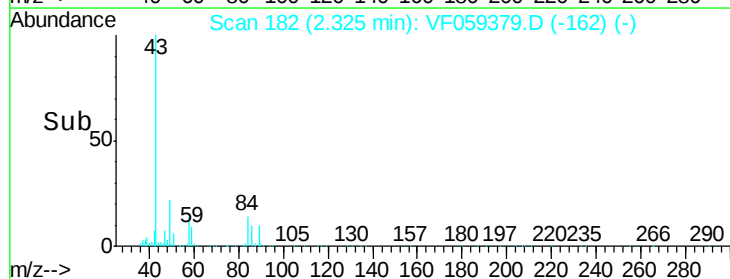
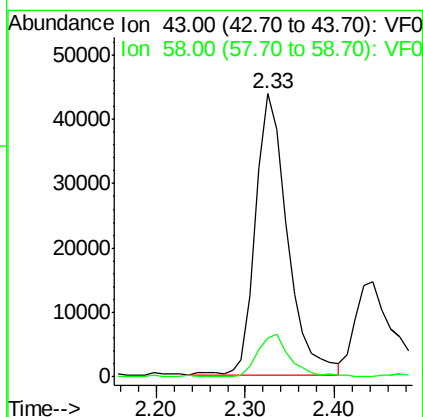
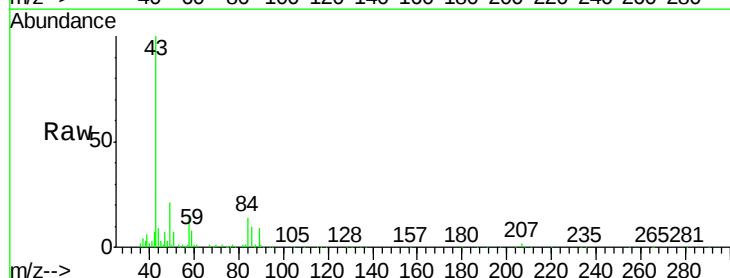
RT: 2.33 min Scan# 182

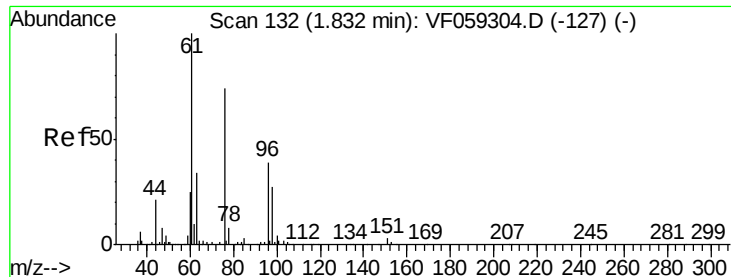
Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	43	Resp:	108037
Ion	Ratio	Lower	Upper
43	100		
58	13.8	11.4	17.0





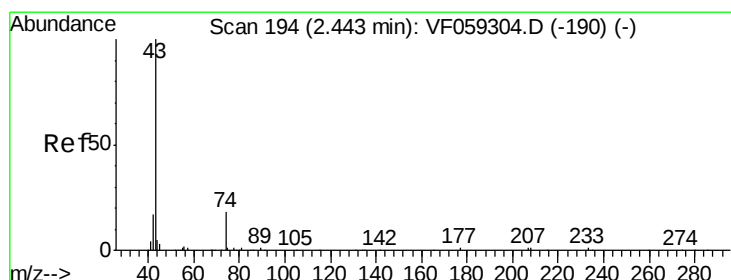
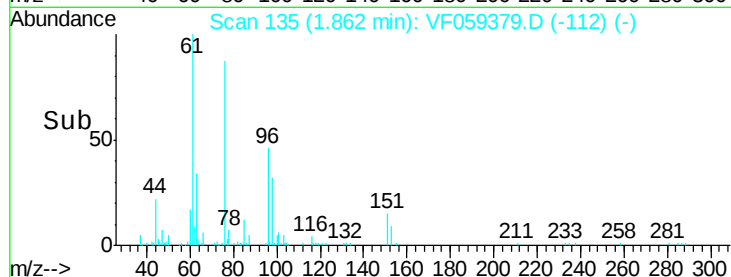
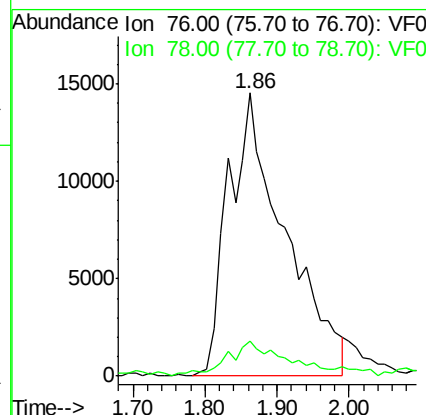
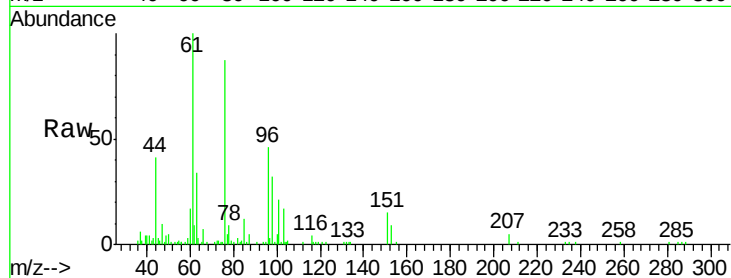
#17
Carbon Disulfide
Concen: 20.19 ug/l
RT: 1.86 min Scan# 135
Delta R.T. 0.03 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.6	8.9	13.3

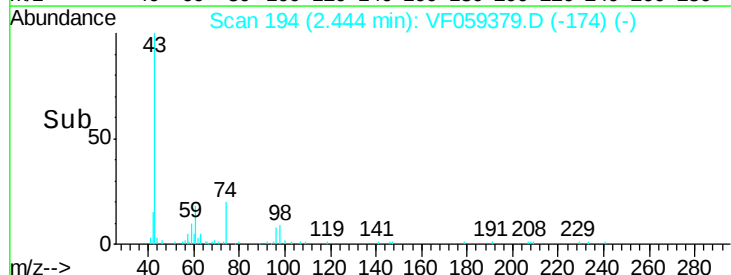
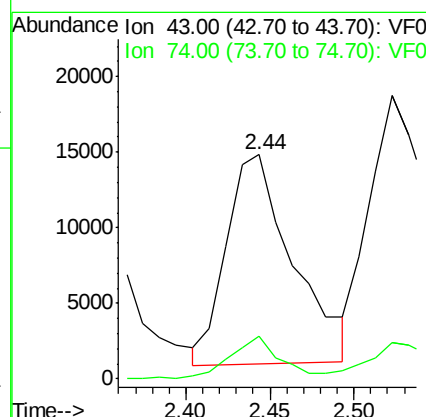
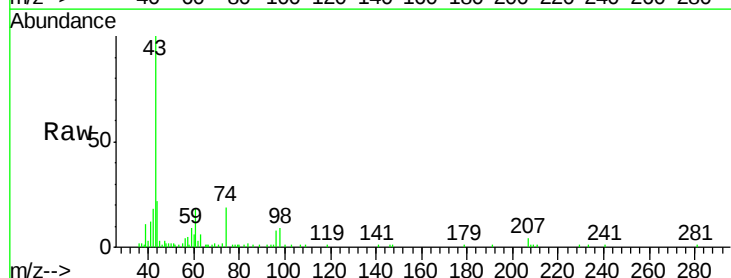
Manual Integrations
APPROVED

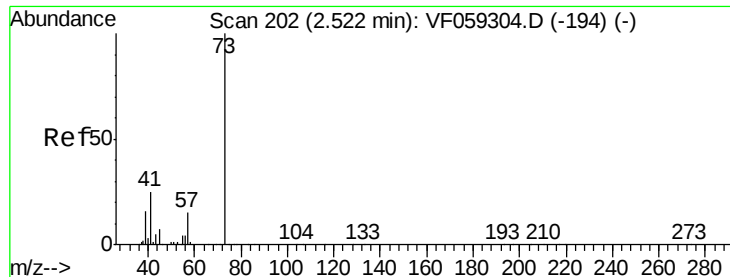
apatel
7/2/2018 1:11:53 PM



#18
Methyl Acetate
Concen: 22.55 ug/l
RT: 2.44 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.8	13.3	19.9





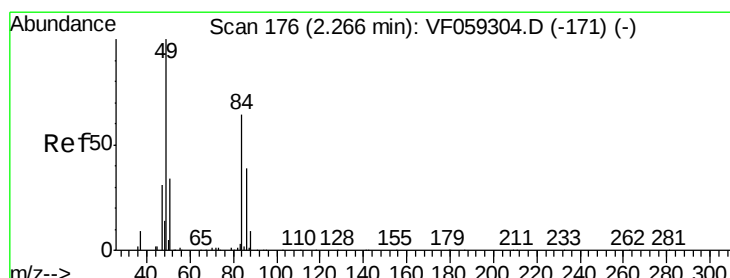
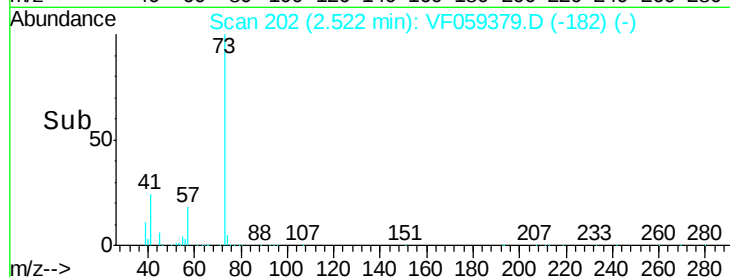
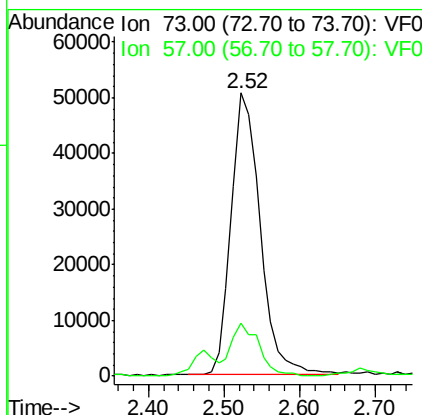
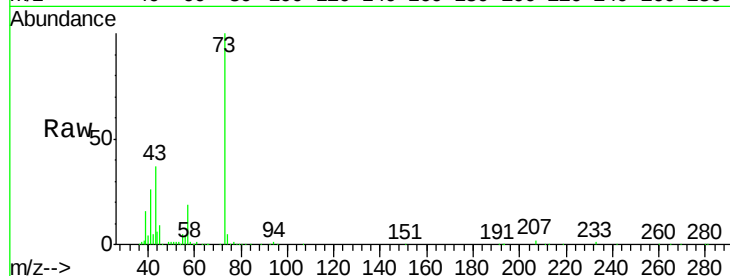
#19
Methyl tert-butyl Ether
Concen: 21.75 ug/l
RT: 2.52 min Scan# 202
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.7	12.3	18.5#

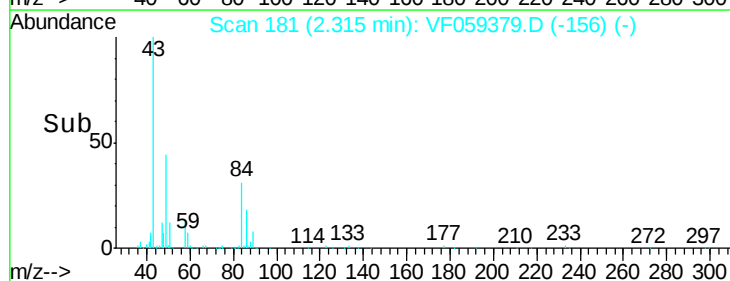
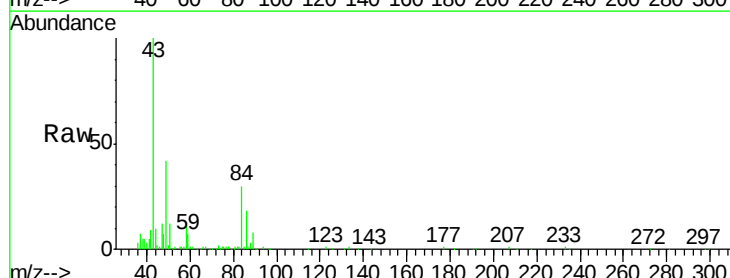
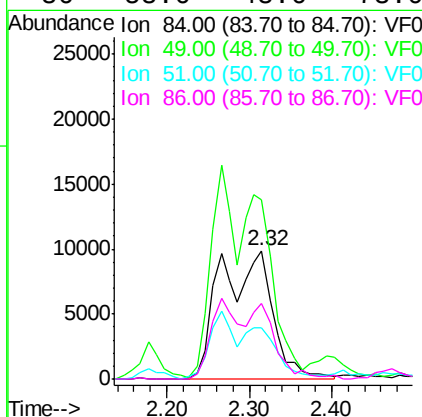
Manual Integrations
APPROVED

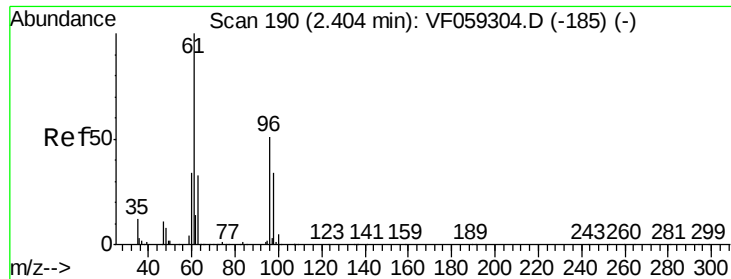
apatel
7/2/2018 1:11:53 PM



#20
Methylene Chloride
Concen: 16.34 ug/l m
RT: 2.32 min Scan# 181
Delta R.T. 0.05 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.1	126.5	189.7
51	40.2	42.9	64.3#
86	58.6	48.6	73.0





#21

trans-1,2-Dichloroethene

Concen: 20.50 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

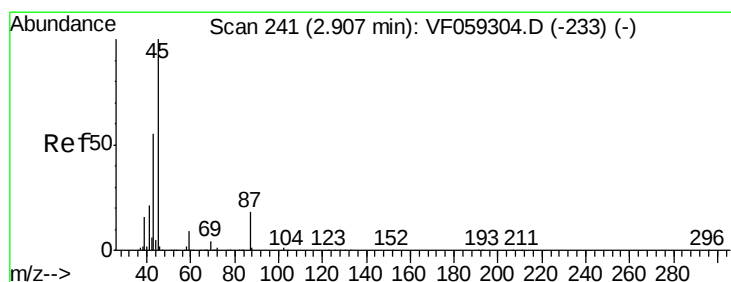
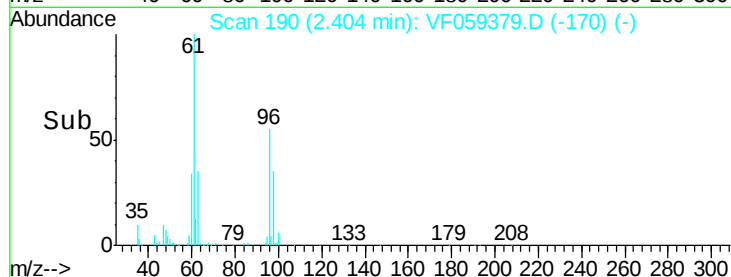
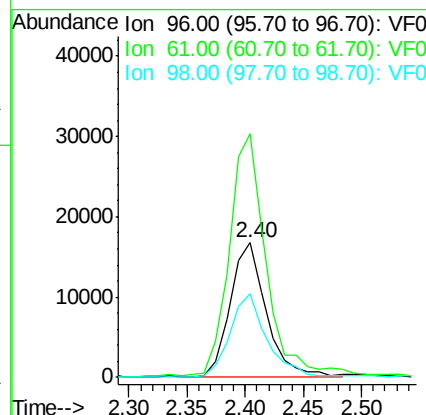
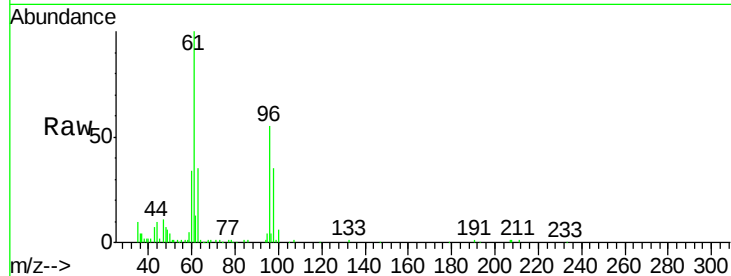
ClientSampleId :

VF0629SBS01

Tot Ion:	96	Resp:	36300
Ion	Ratio	Lower	Upper
96	100		
61	181.2	157.4	236.2
98	62.7	53.7	80.5

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#22

Diisopropyl ether

Concen: 22.51 ug/l

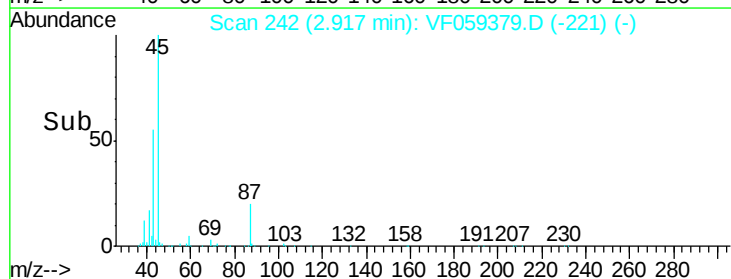
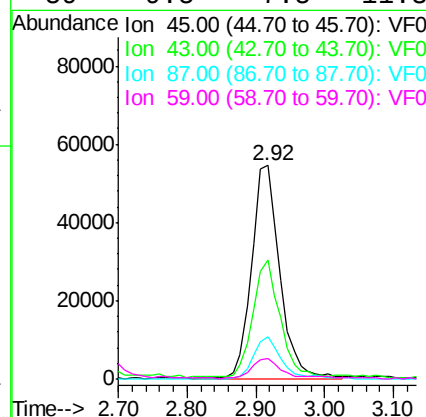
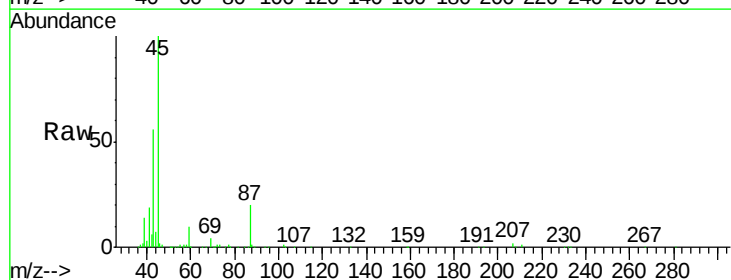
RT: 2.92 min Scan# 242

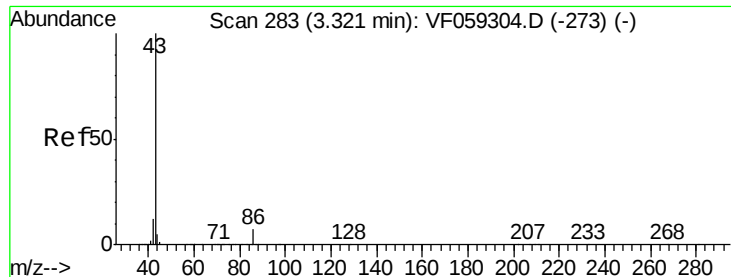
Delta R.T. 0.01 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	45	Resp:	155292
Ion	Ratio	Lower	Upper
45	100		
43	56.0	44.6	66.8
87	19.8	14.3	21.5
59	9.5	7.5	11.3





#23

Vinyl Acetate

Concen: 115.97 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 43 Resp: 509555

Ion Ratio Lower Upper

43 100

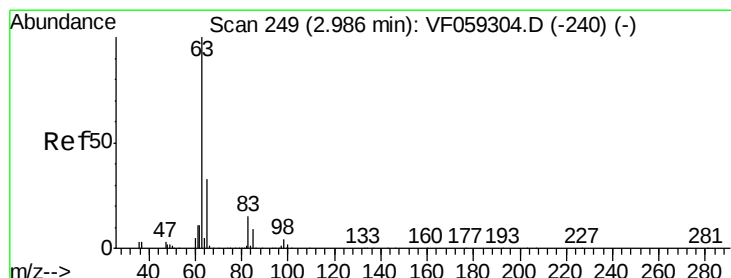
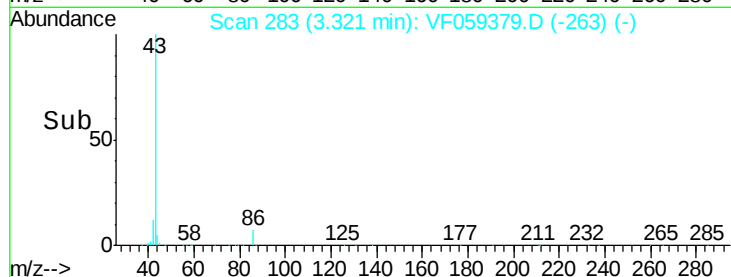
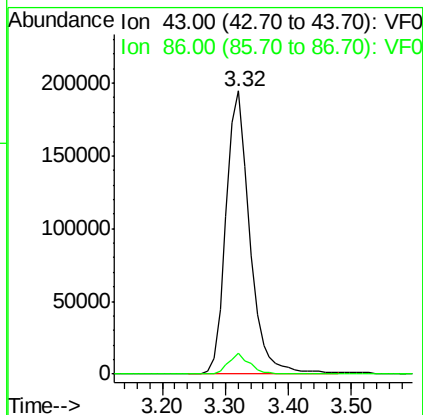
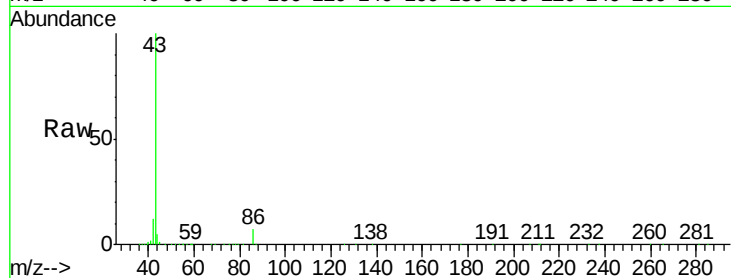
86 7.3 5.8 8.6

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#24

1,1-Dichloroethane

Concen: 22.63 ug/l

RT: 2.99 min Scan# 249

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

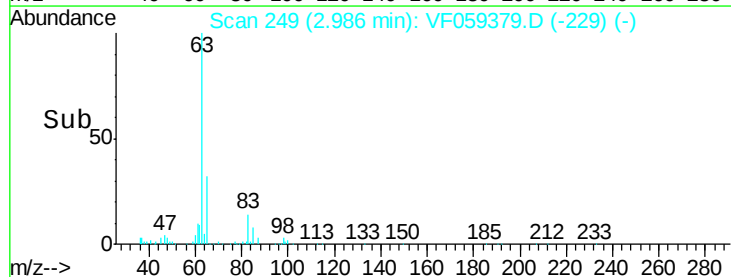
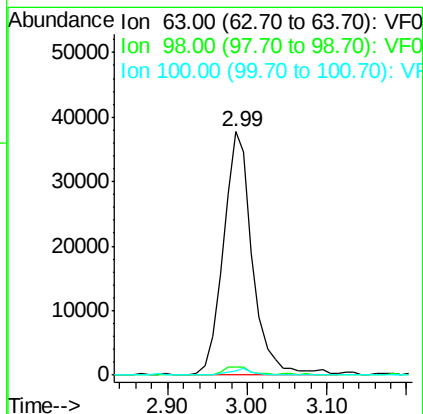
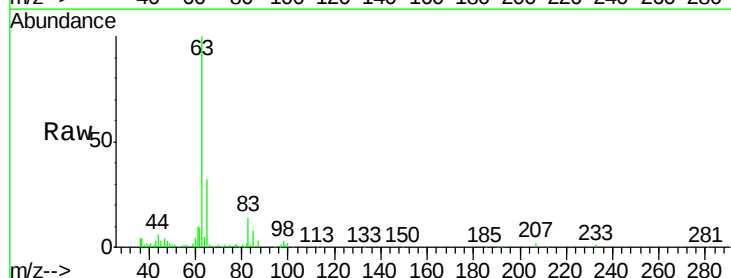
Tgt Ion: 63 Resp: 96812

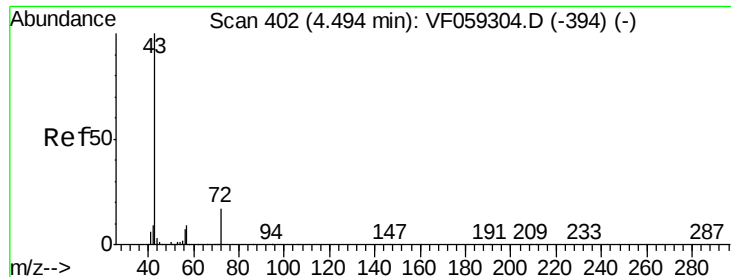
Ion Ratio Lower Upper

63 100

98 3.3 2.0 6.0

100 1.8 1.3 3.9





#25

2-Butanone

Concen: 124.31 ug/l

RT: 4.49 min Scan# 402

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tot Ion: 43 Resp: 138306

Ion Ratio Lower Upper

43 100

72 20.6 14.4 21.6

Instrument :

MSVOA_F

ClientSampleId :

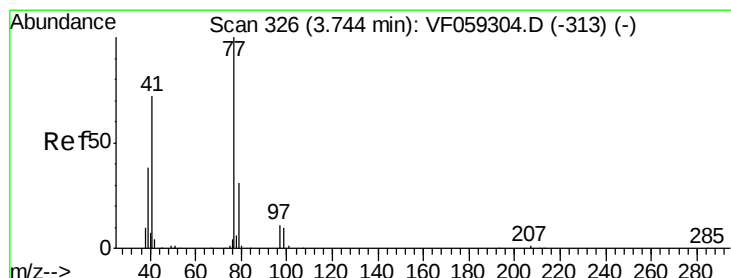
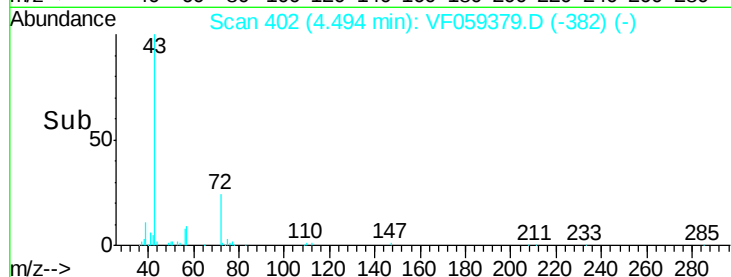
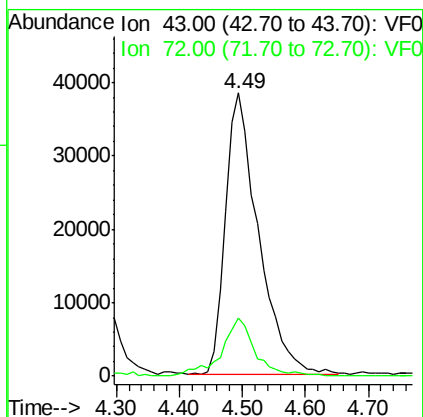
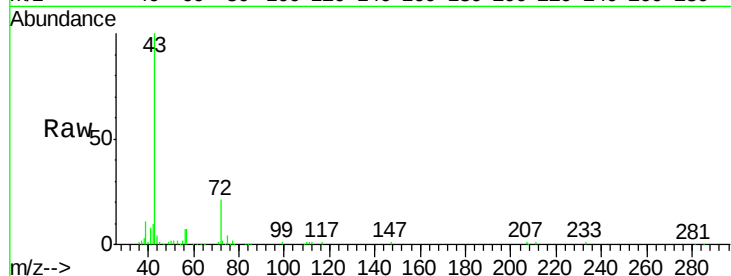
VF0629SBS01

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#26

2,2-Dichloropropane

Concen: 21.01 ug/l

RT: 3.74 min Scan# 326

Delta R.T. 0.00 min

Lab File: VF059379.D

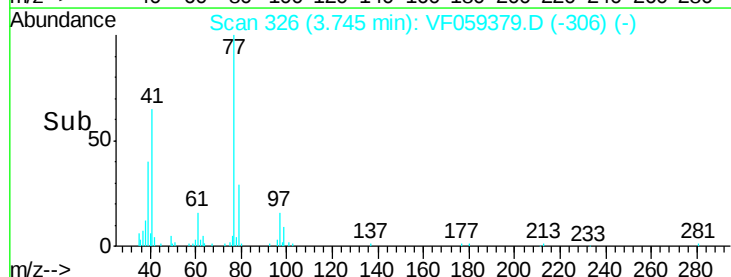
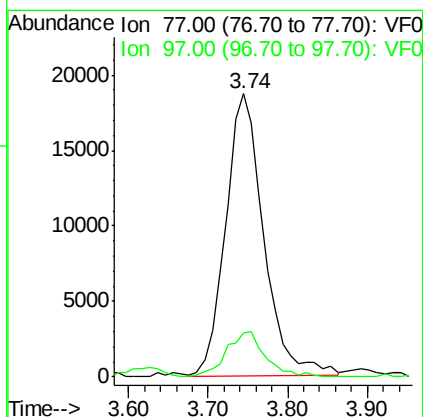
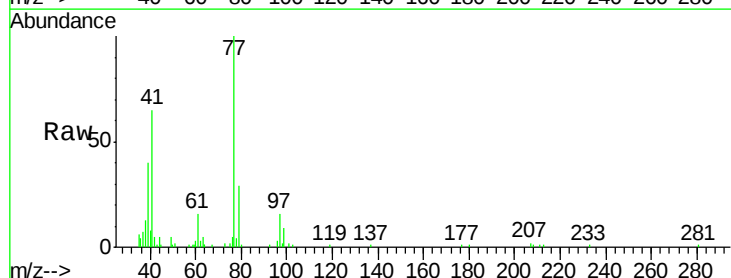
Acq: 29 Jun 2018 16:23

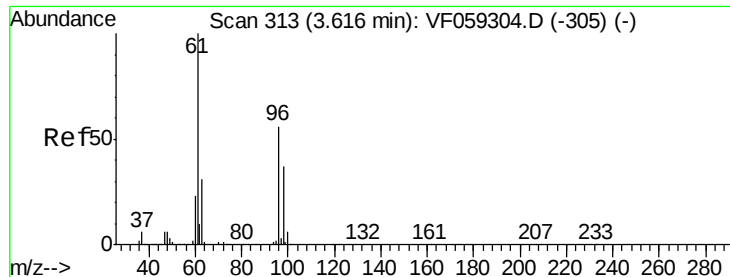
Tgt Ion: 77 Resp: 61990

Ion Ratio Lower Upper

77 100

97 15.7 8.0 23.8





#27

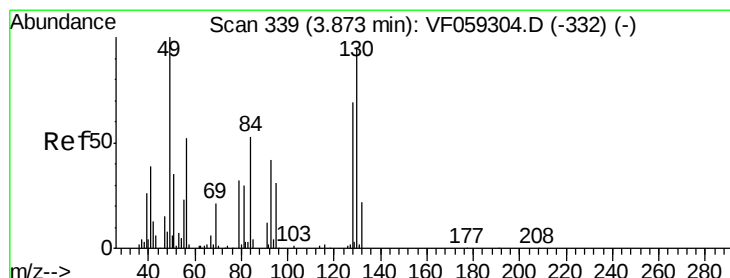
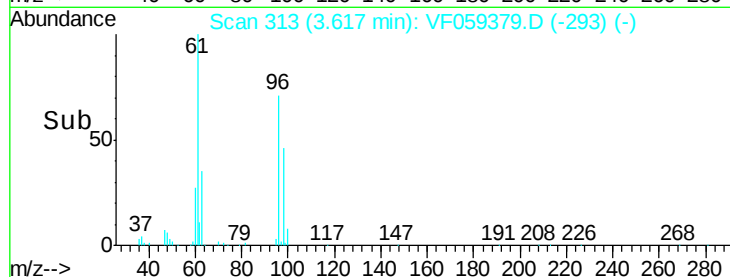
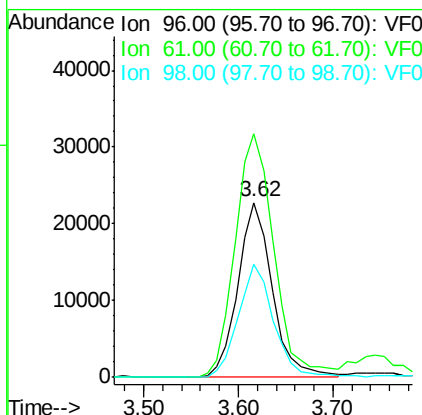
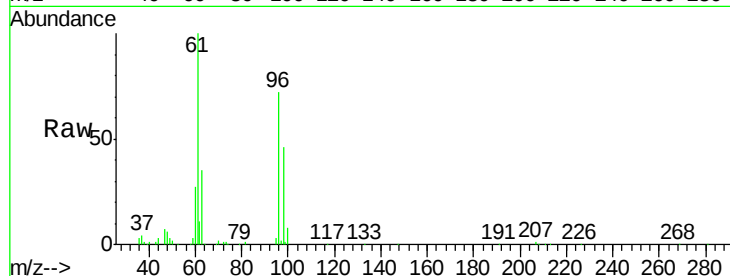
cis-1,2-Dichloroethene
Concen: 21.51 ug/l
RT: 3.62 min Scan# 313
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	57819		
61	139.1	0.0	355.4	
98	64.3	0.0	131.0	

Manual Integrations
APPROVED

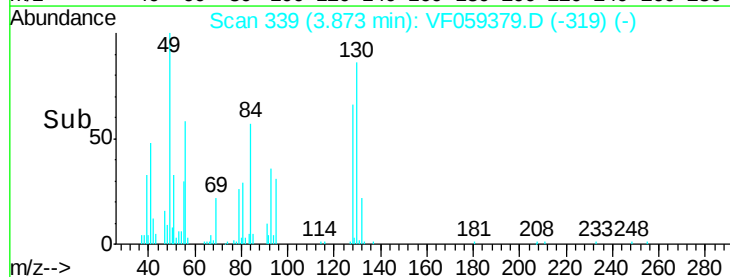
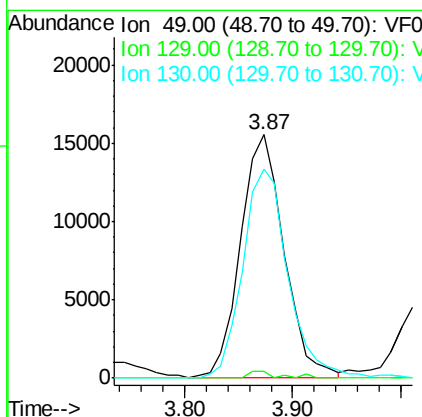
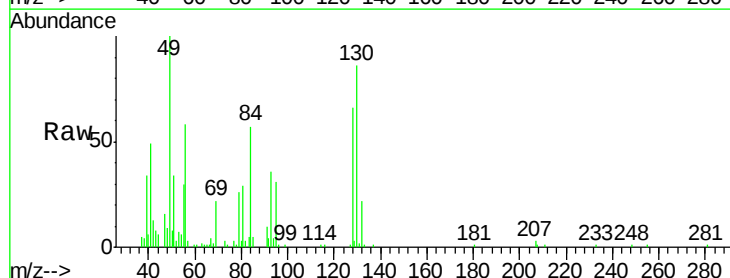
apatel
7/2/2018 1:11:53 PM

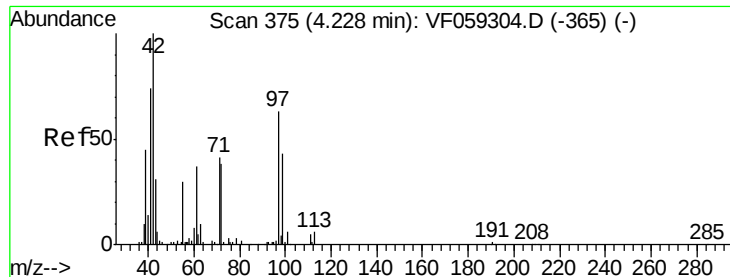


#28

Bromochloromethane
Concen: 24.38 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	43618		
129	2.6	0.0	6.4	
130	85.8	75.1	112.7	





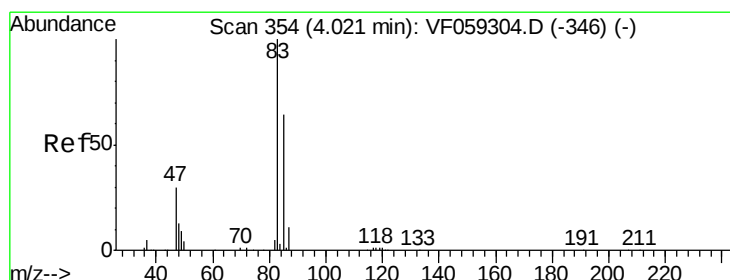
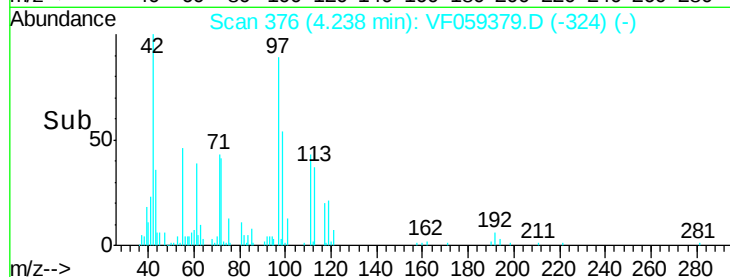
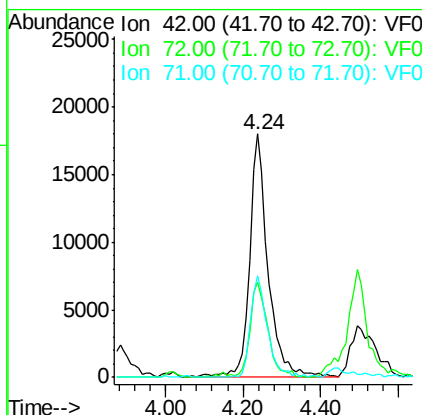
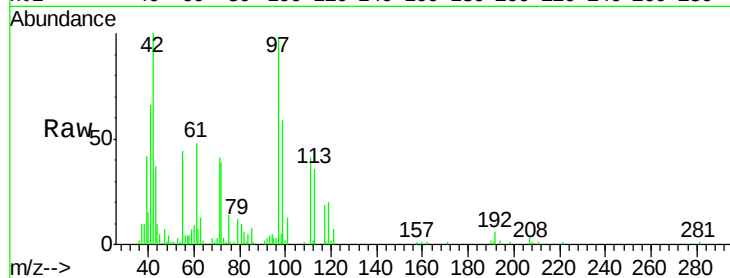
#29
Tetrahydrofuran
Concen: 122.24 ug/l
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.1	30.5	45.7
71	37.9	32.5	48.7

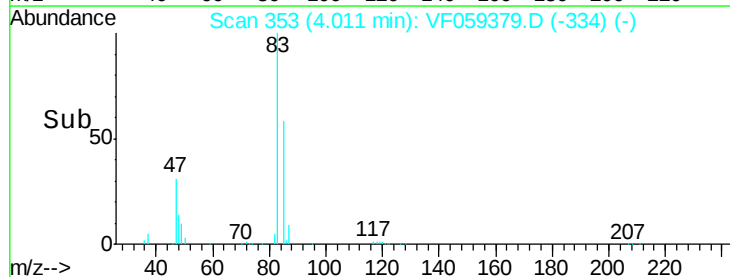
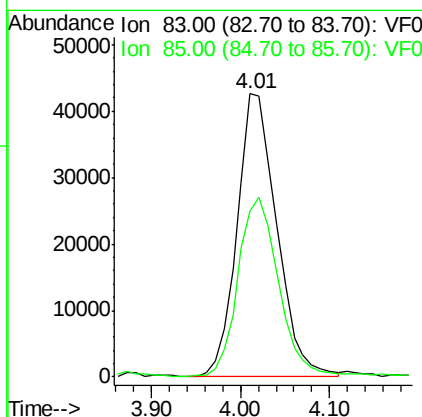
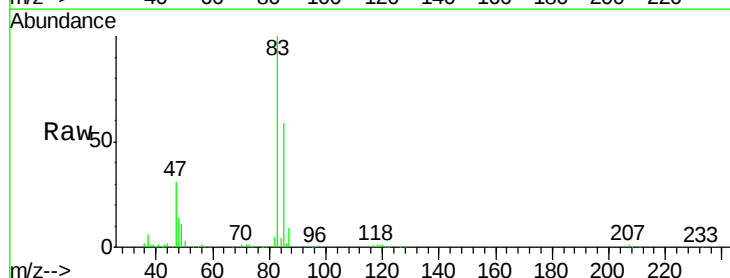
Manual Integrations
APPROVED

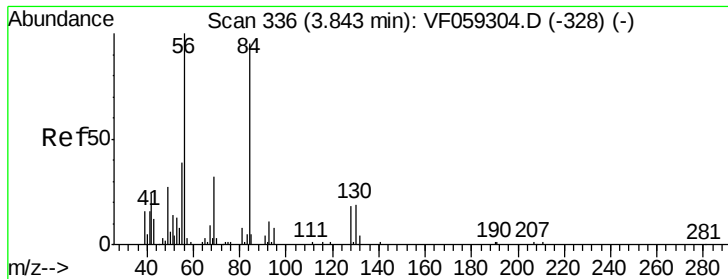
apatel
7/2/2018 1:11:53 PM



#30
Chloroform
Concen: 21.34 ug/l
RT: 4.01 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.6	51.3	76.9





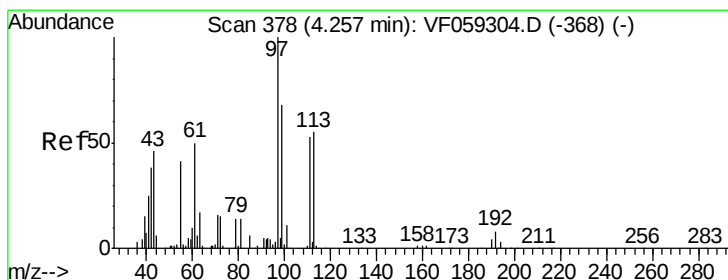
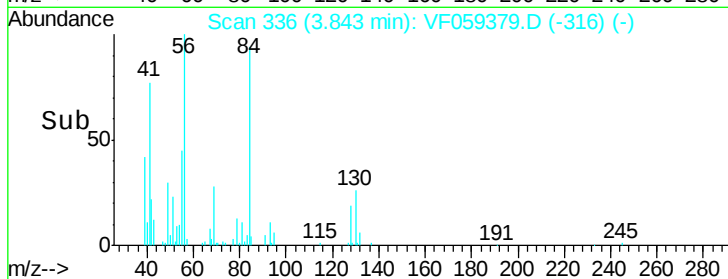
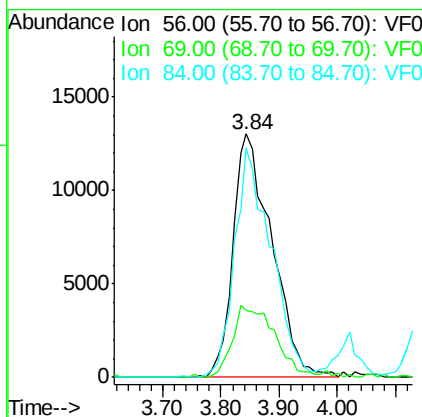
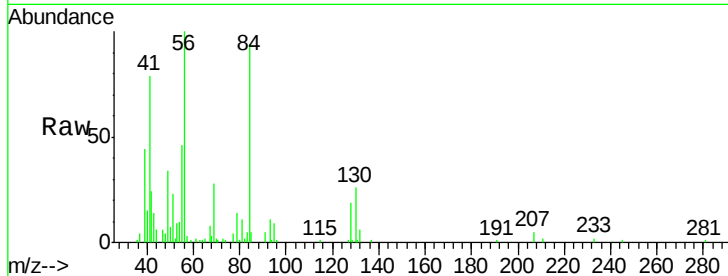
#31
Cyclohexane
Concen: 21.54 ug/l
RT: 3.84 min Scan# 336
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	27.7	25.8	38.8	
84	94.1	75.6	113.4	

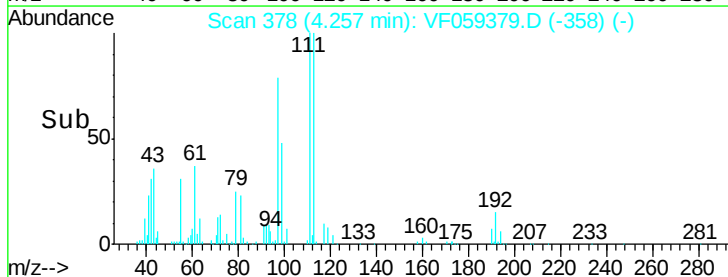
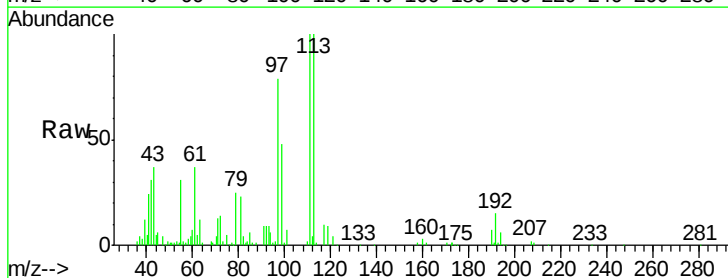
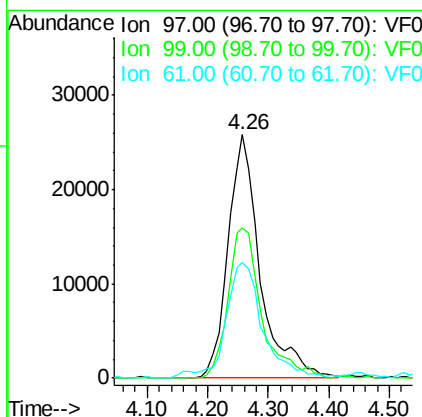
Manual Integrations
APPROVED

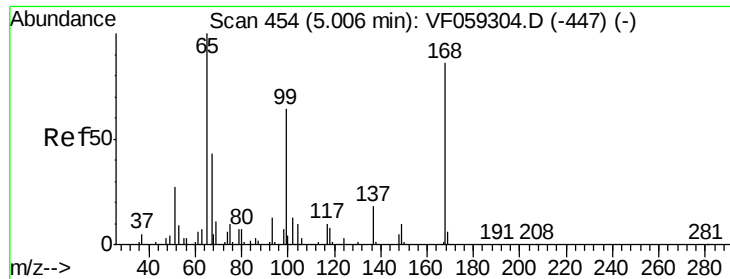
apatel
7/2/2018 1:11:53 PM



#32
1,1,1-Trichloroethane
Concen: 21.01 ug/l
RT: 4.26 min Scan# 378
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	61.6	54.1	81.1	
61	47.4	41.2	61.8	





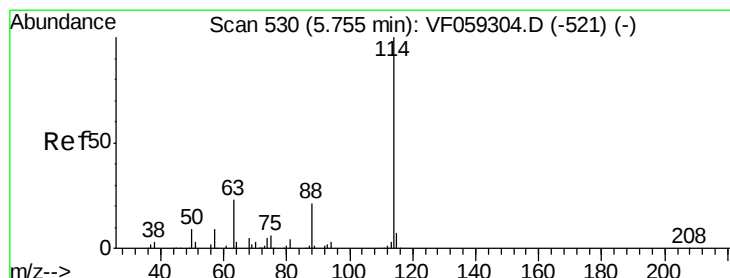
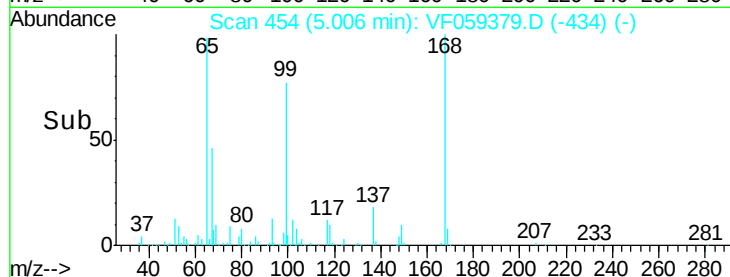
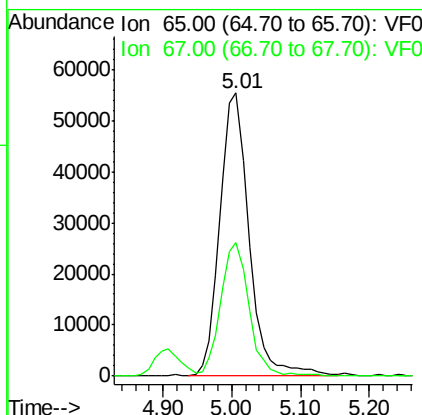
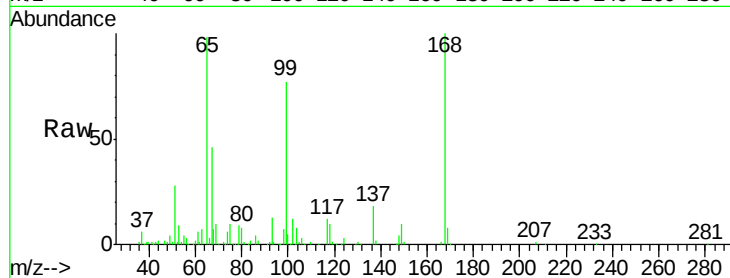
#33
 1,2-Dichloroethane-d4
 Concen: 45.12 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	47.1	0.0		96.8

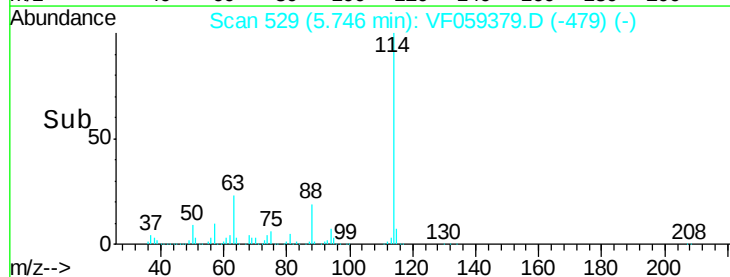
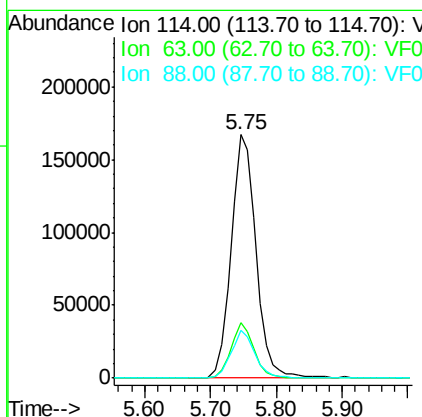
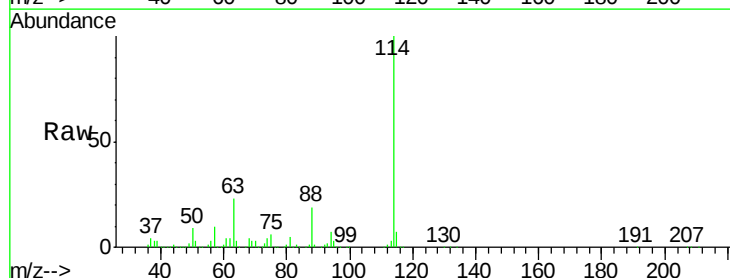
Manual Integrations
 APPROVED

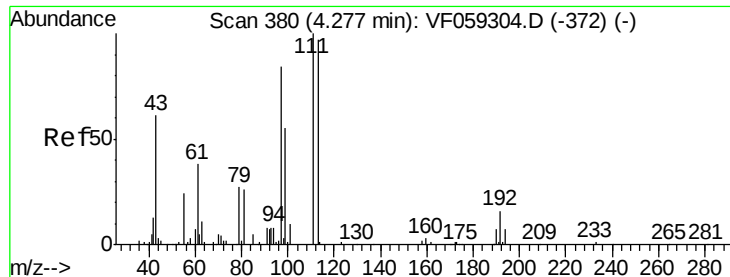
apatel
 7/2/2018 1:11:53 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.7	0.0		45.8
88	19.4	0.0		41.2





#35

Dibromofluoromethane

Concen: 45.55 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

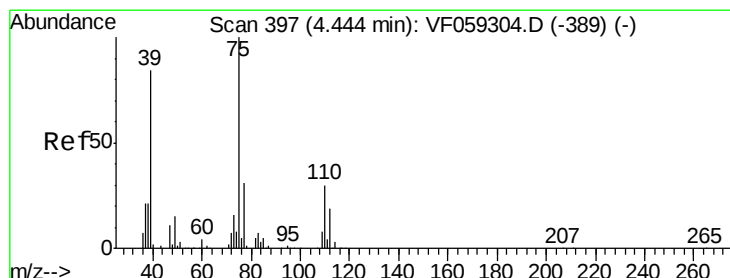
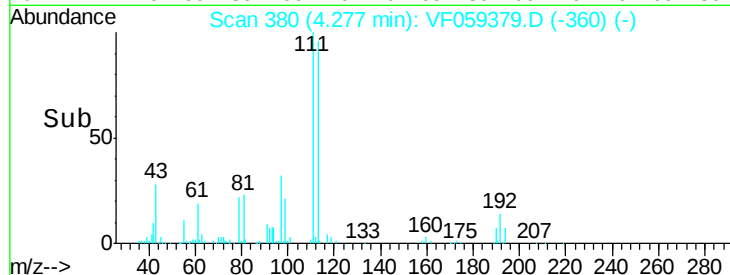
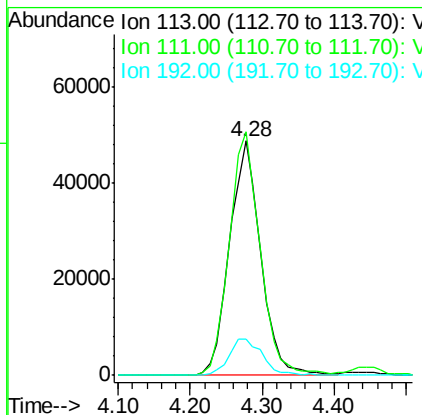
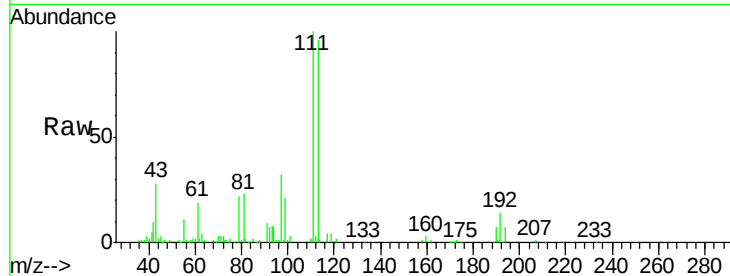
ClientSampleId :

VF0629SBS01

Tot Ion:	113	Resp:	147230
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.1	123.1
192	15.4	13.0	19.6

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#36

1,1-Dichloropropene

Concen: 20.89 ug/l

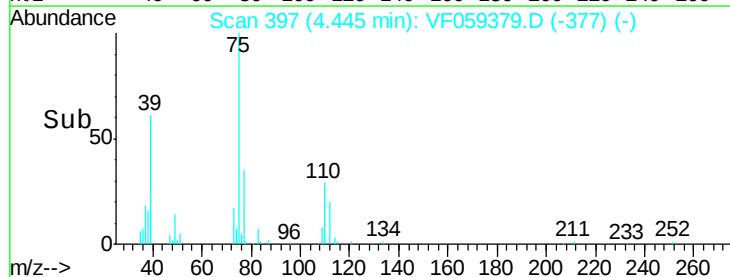
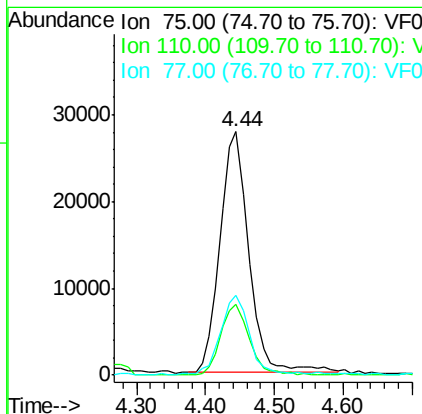
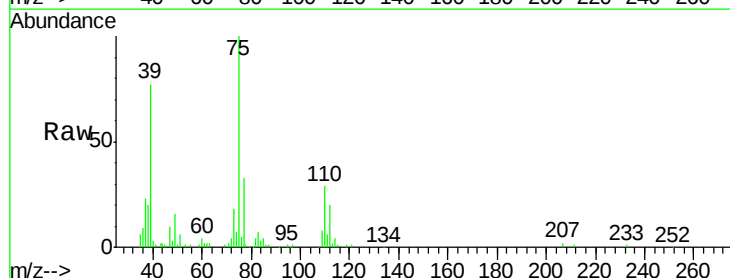
RT: 4.44 min Scan# 397

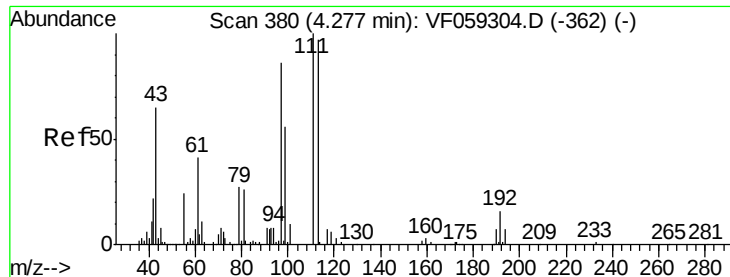
Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	75	Resp:	80734
Ion	Ratio	Lower	Upper
75	100		
110	29.1	14.8	44.4
77	33.0	25.2	37.8





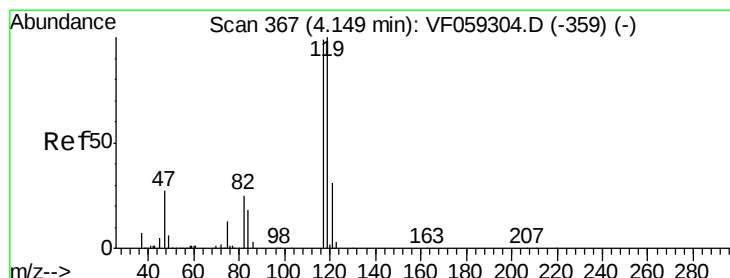
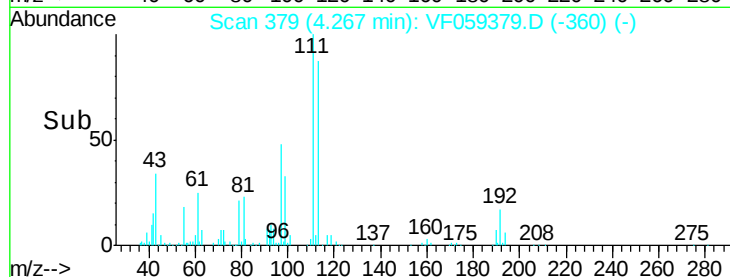
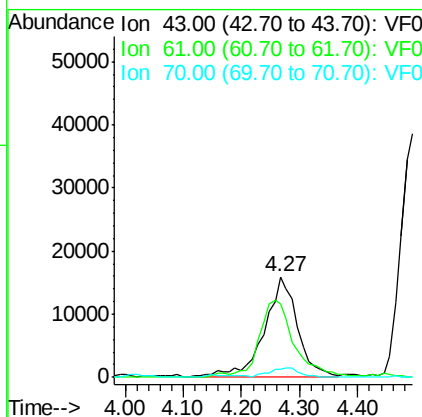
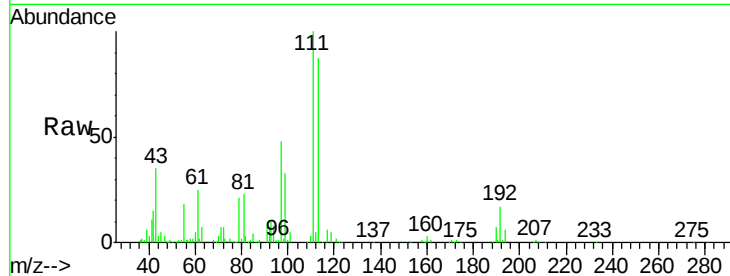
#37
Ethyl Acetate
Concen: 24.06 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	73.2	50.1	75.1			
70	8.2	6.2	9.4			

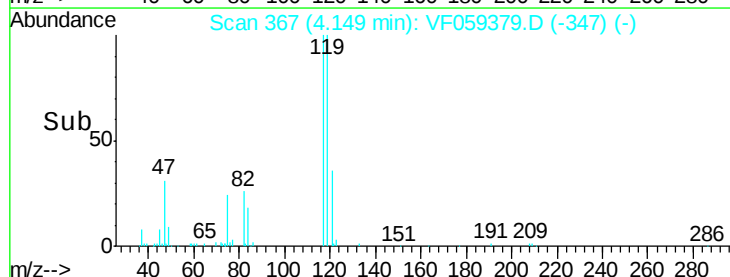
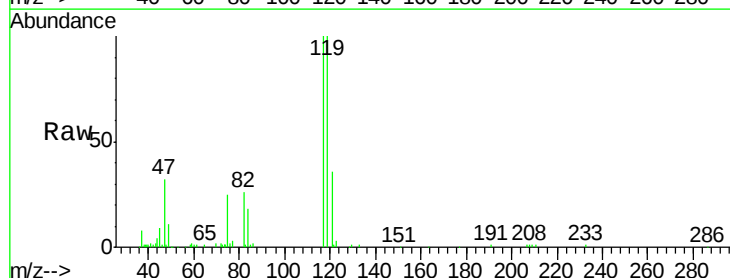
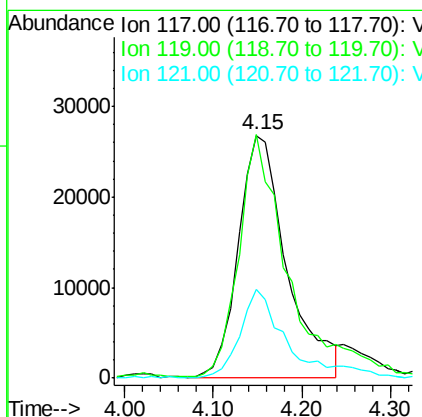
Manual Integrations
APPROVED

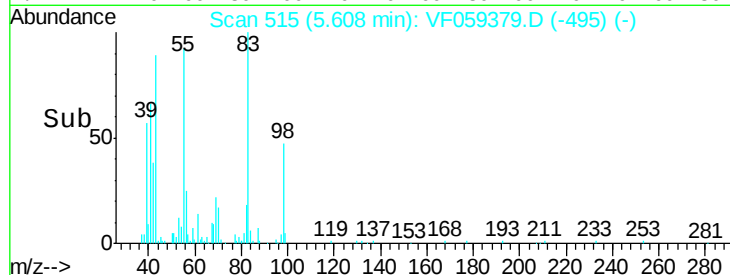
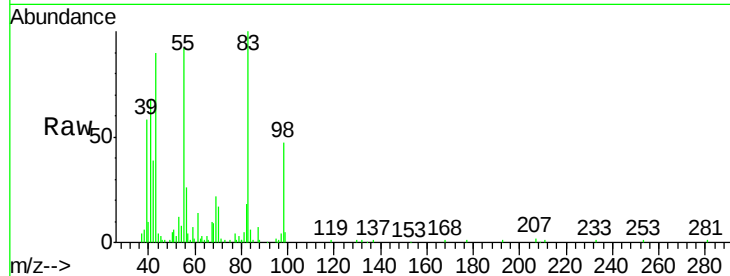
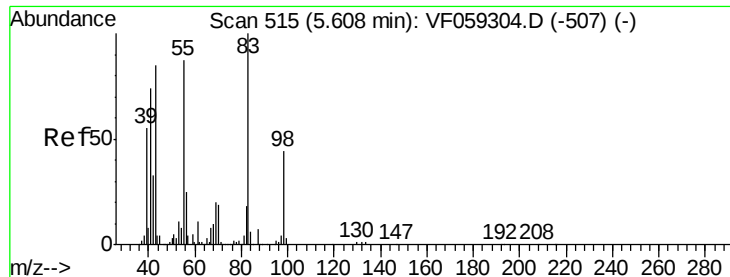
apatel
7/2/2018 1:11:53 PM



#38
Carbon Tetrachloride
Concen: 20.93 ug/l m
RT: 4.15 min Scan# 367
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	100.3	81.0	121.4			
121	36.3	24.7	37.1			





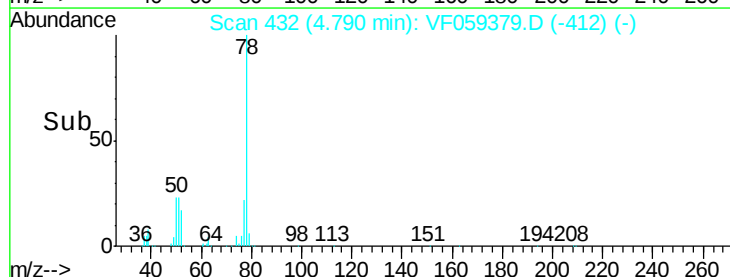
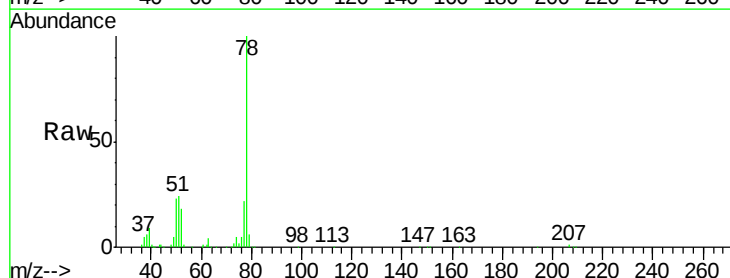
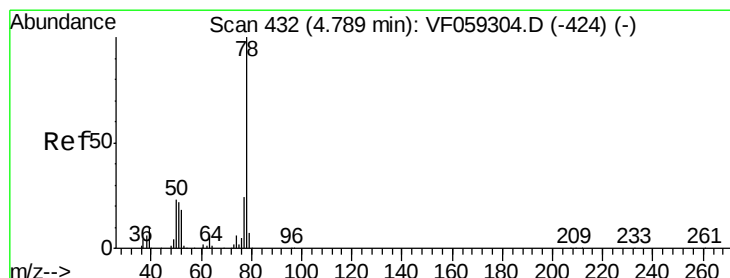
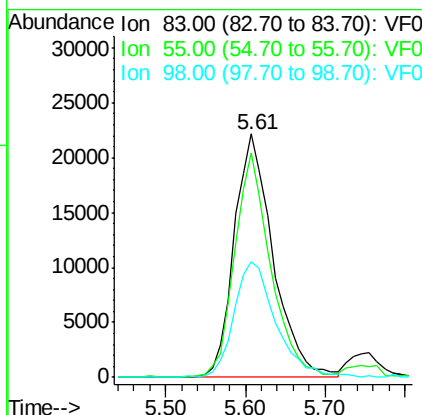
#39
Methylcyclohexane
Concen: 21.94 ug/l
RT: 5.61 min Scan# 515
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tot Ion	83	Resp	75141
Ion Ratio	100	Lower	Upper
83	100		
55	92.3	69.2	103.8
98	47.5	35.0	52.6

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

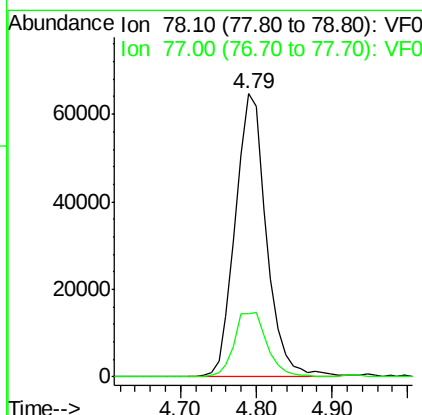
Manual Integrations
APPROVED

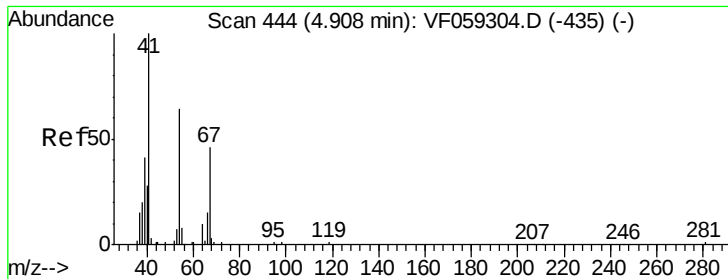
apatel
7/2/2018 1:11:53 PM



#40
Benzene
Concen: 21.52 ug/l
RT: 4.79 min Scan# 432
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	78	Resp	184416
Ion Ratio	100	Lower	Upper
78	100		
77	22.4	19.6	29.4





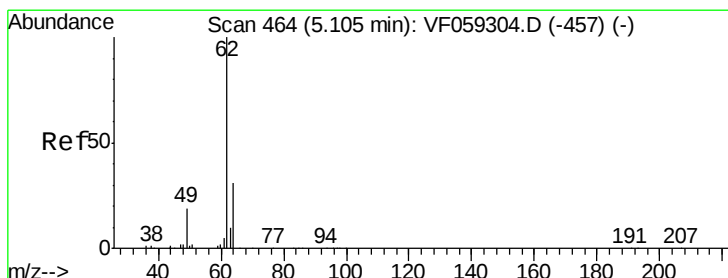
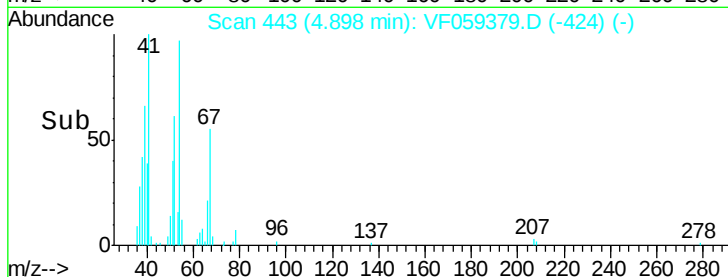
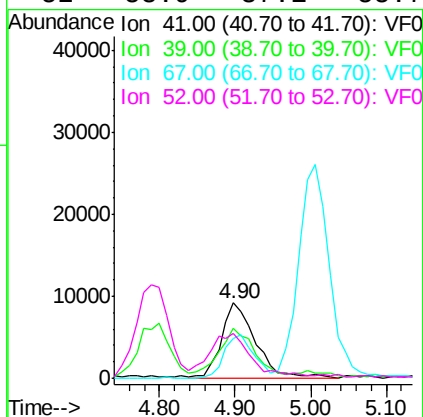
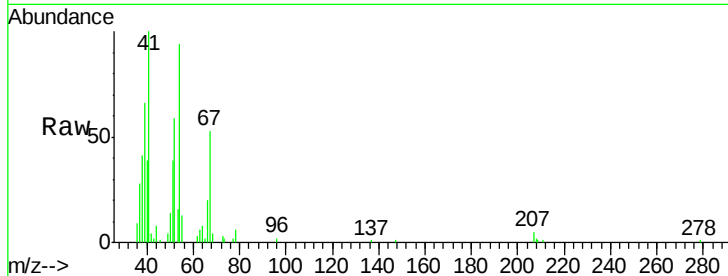
#41
Methacrylonitrile
Concen: 21.85 ug/l
RT: 4.90 min Scan# 443
Delta R.T. -0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	66.2	50.0	75.0	
67	53.2	37.0	55.6	
52	58.9	37.1	55.7	

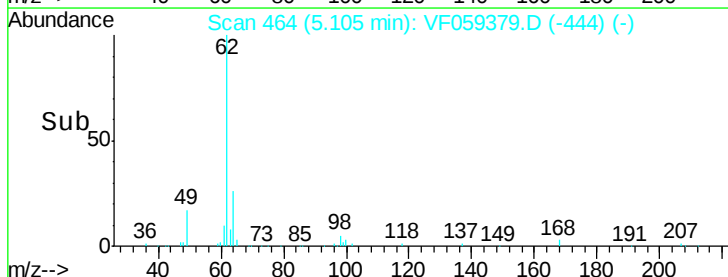
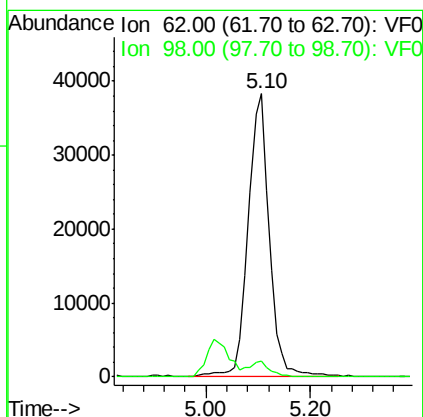
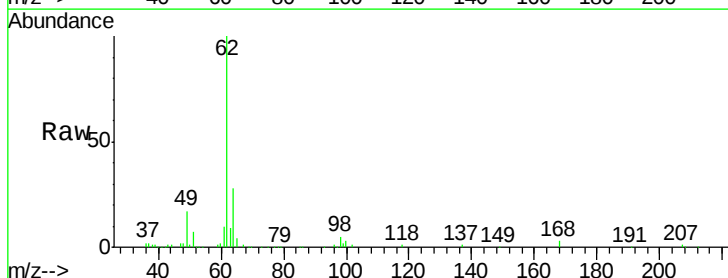
Manual Integrations
APPROVED

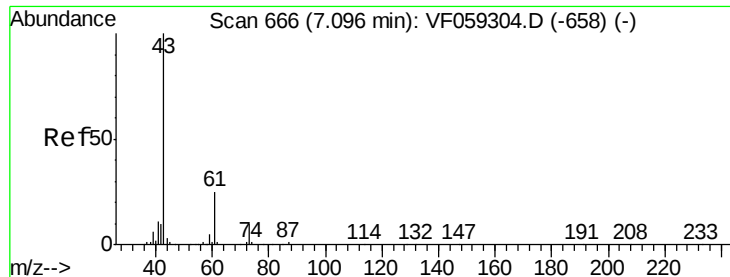
apatel
7/2/2018 1:11:53 PM



#42
1,2-Dichloroethane
Concen: 20.94 ug/l
RT: 5.10 min Scan# 464
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	5.4	0.0	11.4	





#43

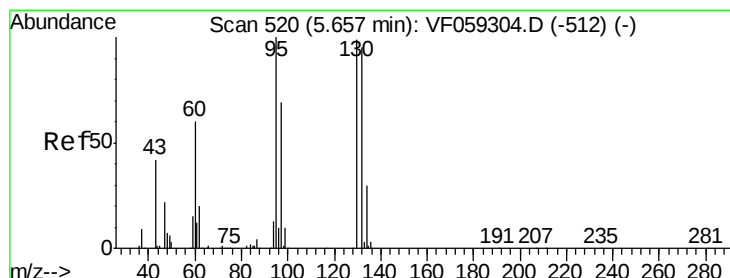
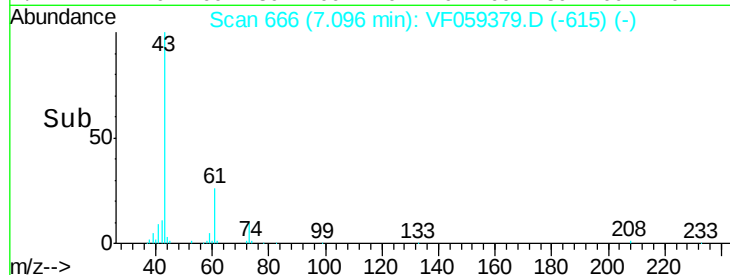
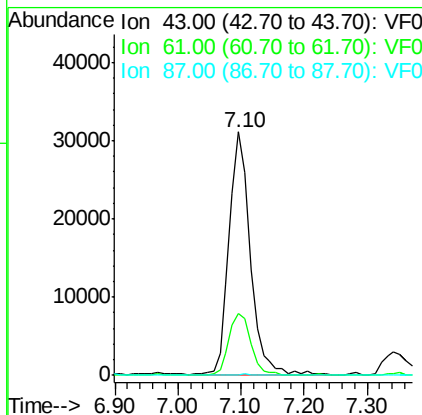
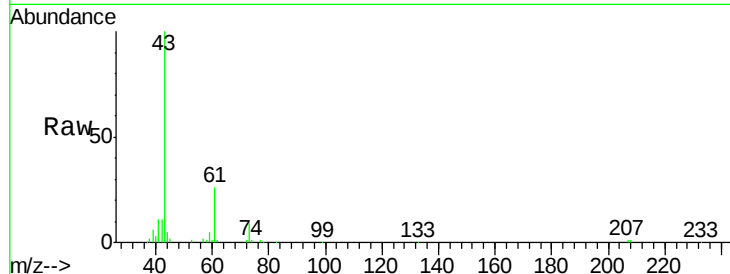
Isopropyl Acetate
 Concen: 22.78 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	43	Resp	73350
Ion Ratio	100	Lower	Upper
43	100		
61	25.6	19.7	29.5
87	0.0	0.5	0.7#

Manual Integrations
 APPROVED

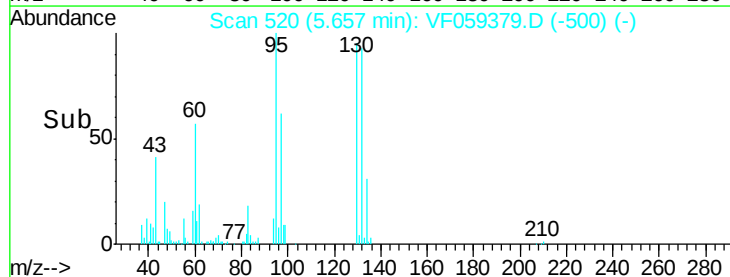
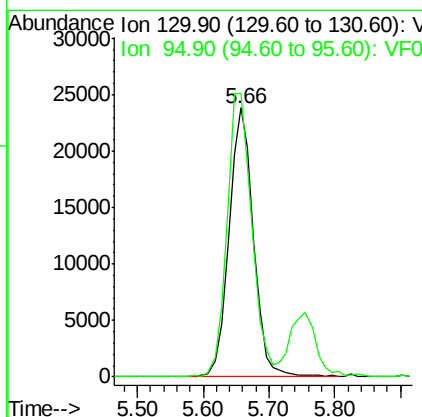
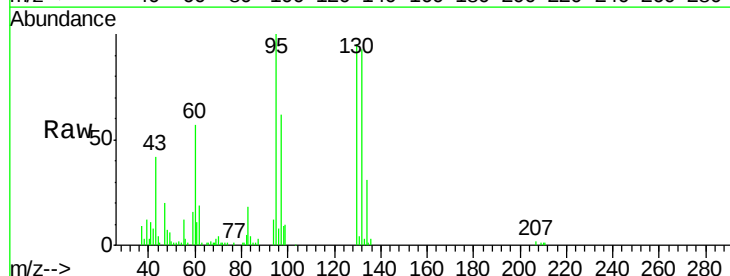
apatel
 7/2/2018 1:11:53 PM

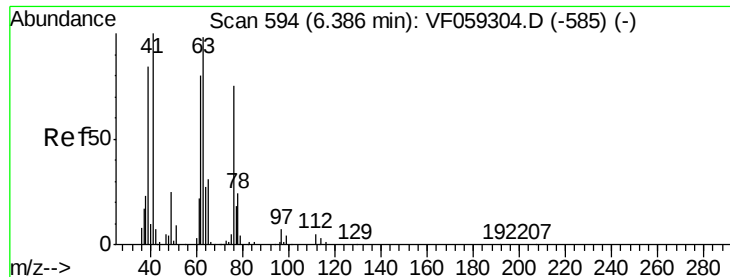


#44

Trichloroethene
 Concen: 21.04 ug/l
 RT: 5.66 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	130	Resp	61835
Ion Ratio	100	Lower	Upper
130	100		
95	105.1	0.0	202.4





#45

1,2-Dichloropropane

Concen: 21.34 ug/l

RT: 6.39 min Scan# 594

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 63 Resp: 52245

Ion Ratio Lower Upper

63 100

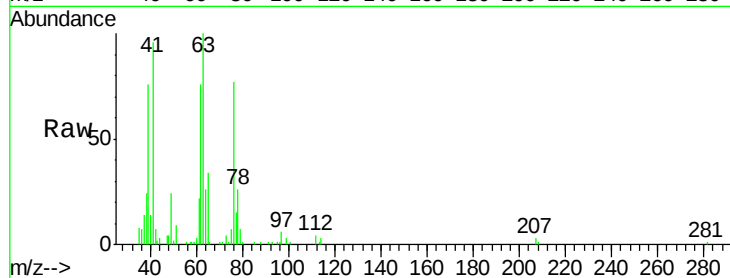
65 33.8 25.3 37.9

Manual Integrations

APPROVED

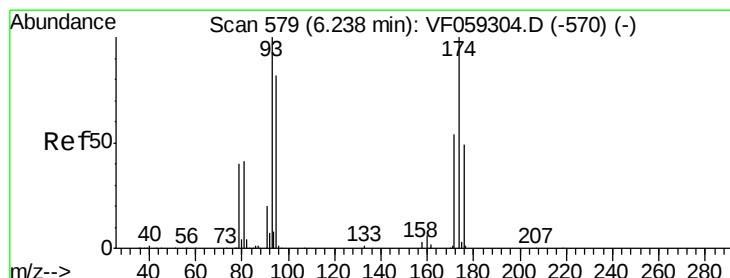
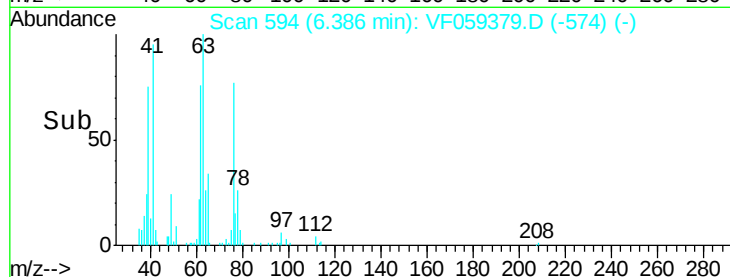
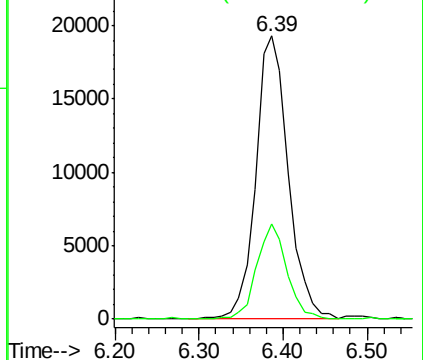
apatel

7/2/2018 1:11:53 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.41 ug/l

RT: 6.24 min Scan# 579

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

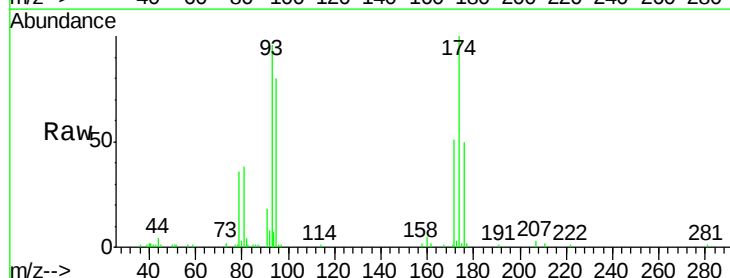
Tgt Ion: 93 Resp: 41253

Ion Ratio Lower Upper

93 100

95 84.0 65.6 98.4

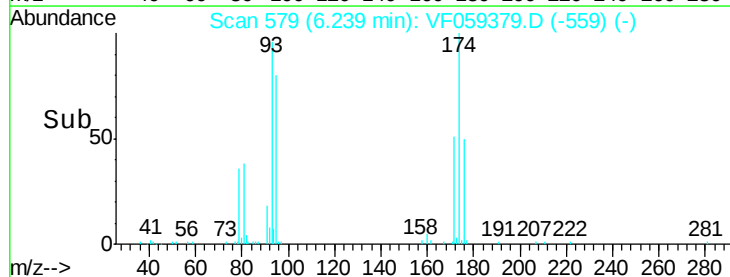
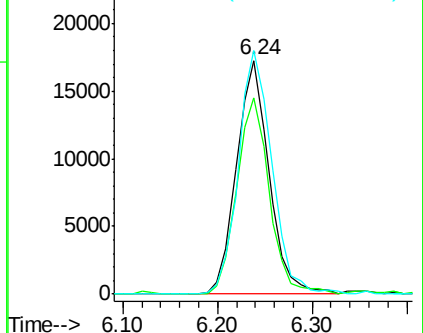
174 104.3 80.0 120.0

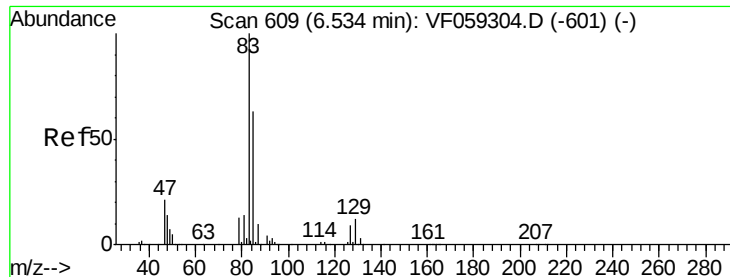


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.98 ug/l

RT: 6.53 min Scan# 609

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

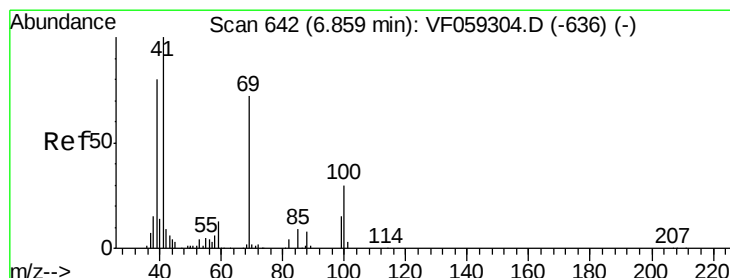
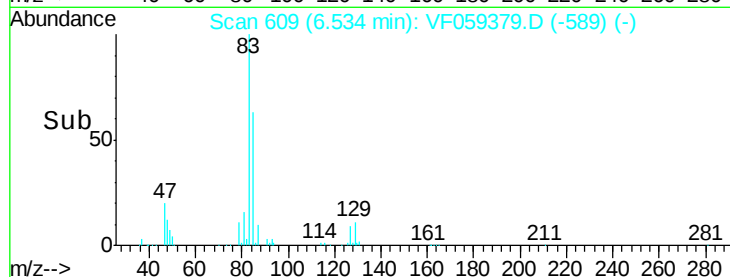
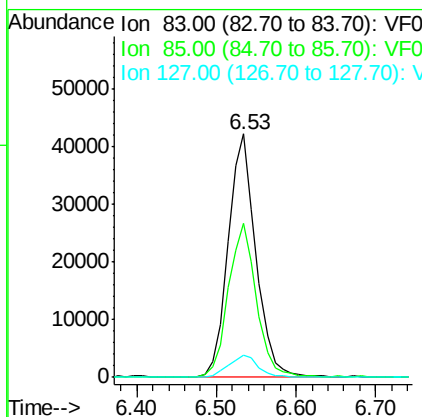
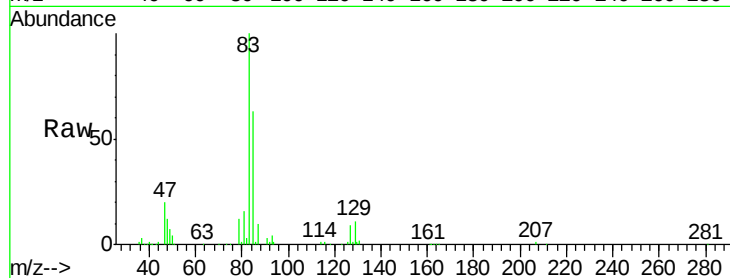
ClientSampleId :

VF0629SBS01

Tot Ion:	83	Resp:	102762
Ion Ratio	Lower	Upper	
83	100		
85	63.2	50.2	75.2
127	9.1	7.0	10.4

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#48

Methyl methacrylate

Concen: 22.36 ug/l

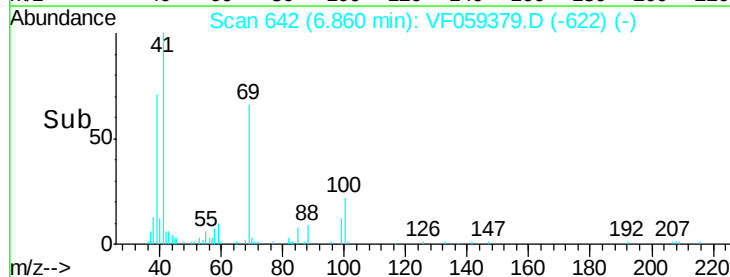
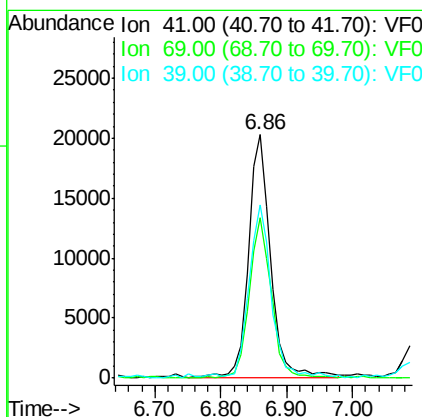
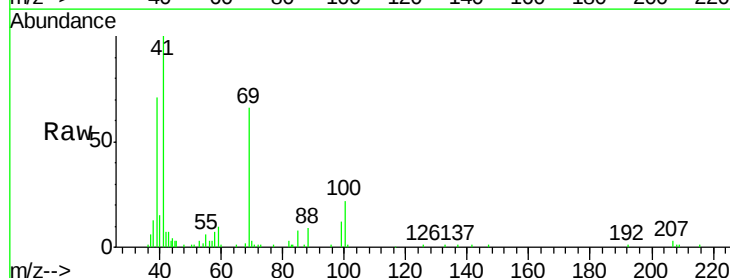
RT: 6.86 min Scan# 642

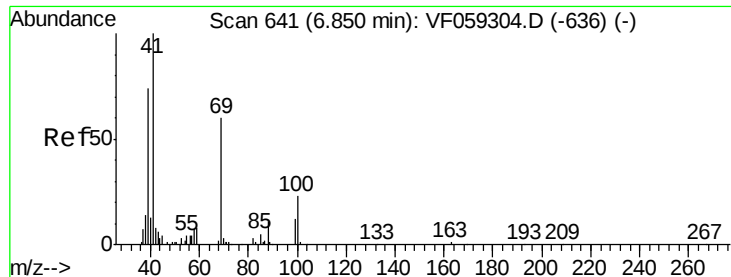
Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	41	Resp:	48250
Ion Ratio	Lower	Upper	
41	100		
69	66.1	57.3	85.9
39	71.2	64.4	96.6





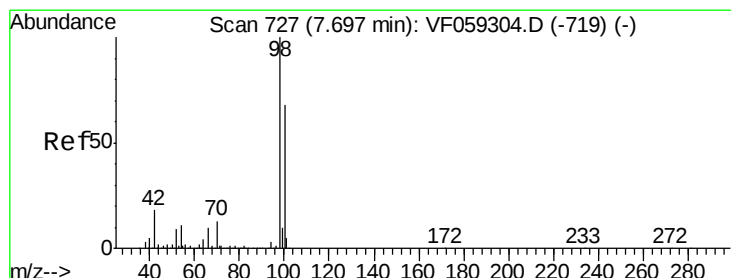
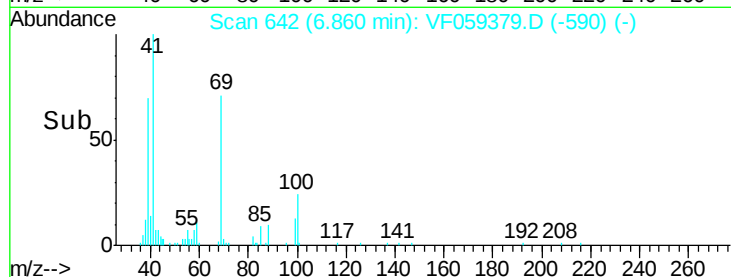
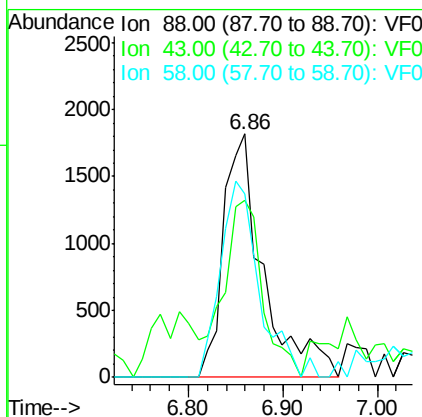
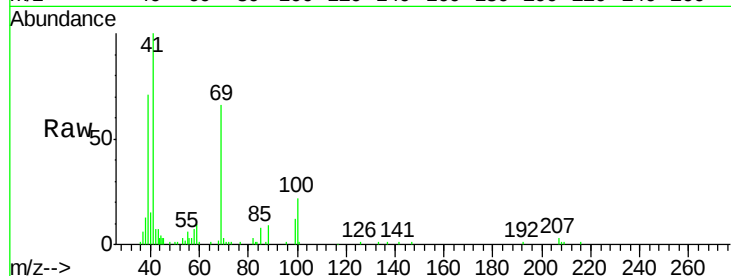
#49
1,4-Dioxane
Concen: 434.32 ug/l
RT: 6.86 min Scan# 642
Delta R.T. 0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	72.7	50.6	75.8
58	75.3	46.6	69.8#

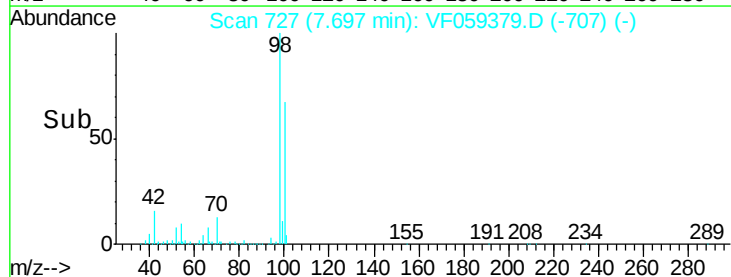
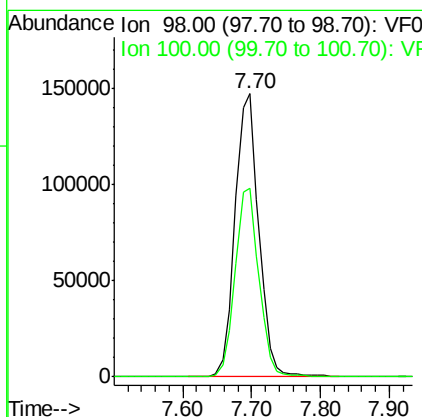
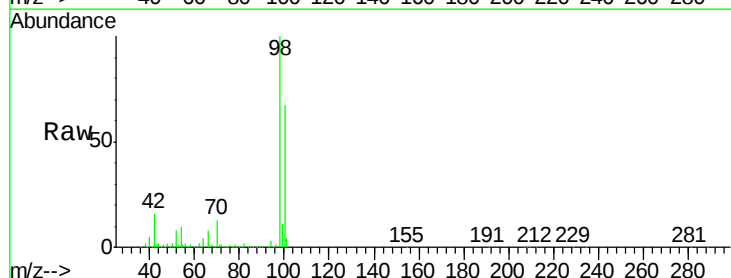
Manual Integrations
APPROVED

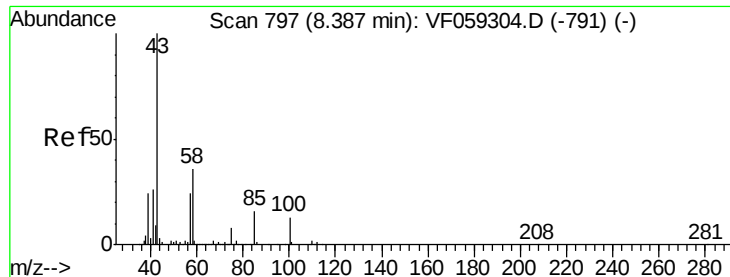
apatel
7/2/2018 1:11:53 PM



#50
Toluene-d8
Concen: 43.82 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.9	54.6	82.0





#51

4-Methyl-2-Pentanone

Concen: 111.13 ug/l

RT: 8.39 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 43 Resp: 265043

Ion Ratio Lower Upper

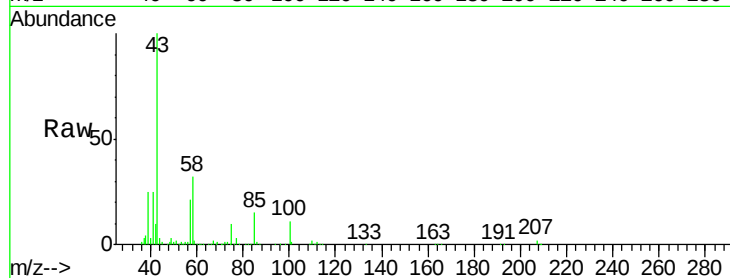
43 100

58 32.2 28.4 42.6

Manual Integrations
APPROVED

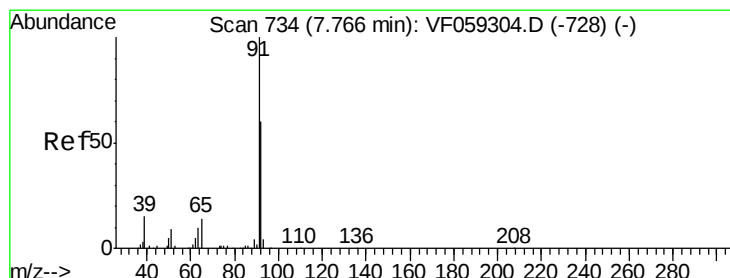
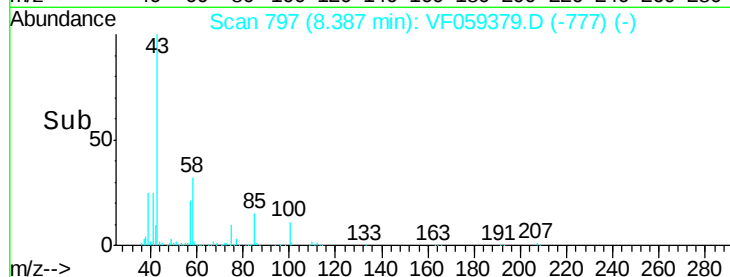
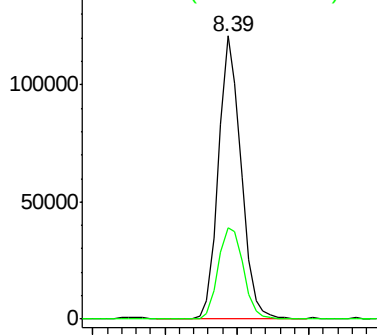
apatel

7/2/2018 1:11:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.39 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059379.D

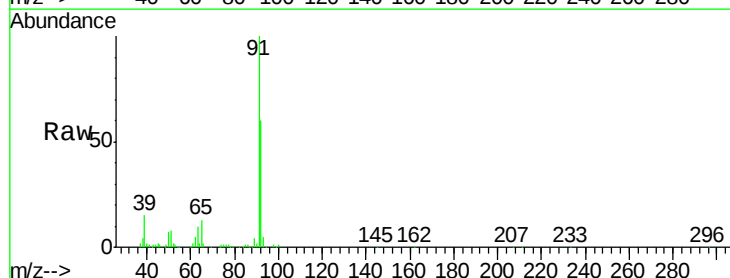
Acq: 29 Jun 2018 16:23

Tgt Ion: 92 Resp: 130716

Ion Ratio Lower Upper

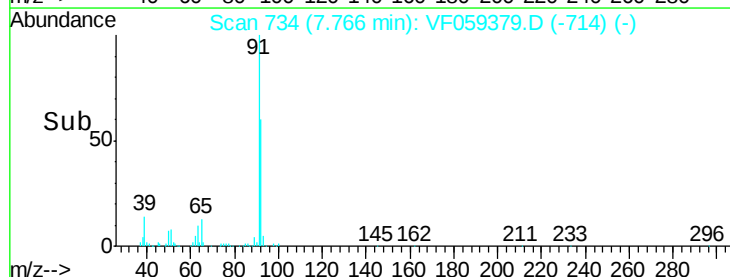
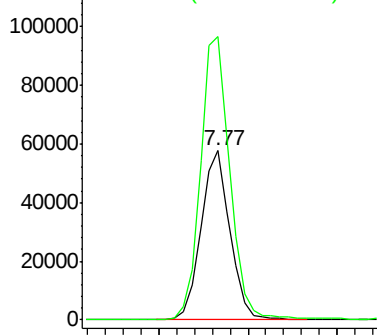
92 100

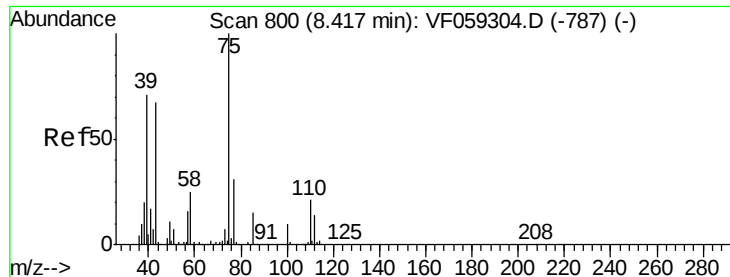
91 167.2 132.8 199.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.84 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.01 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tot Ion: 75 Resp: 102408

Ion Ratio Lower Upper

75 100

77 34.3 25.3 37.9

Instrument :

MSVOA_F

ClientSampleId :

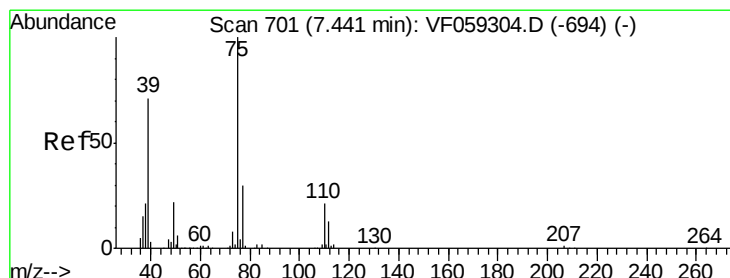
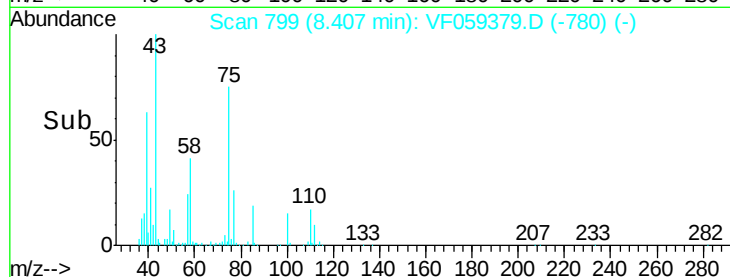
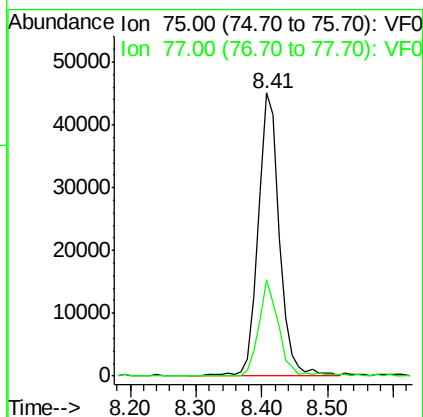
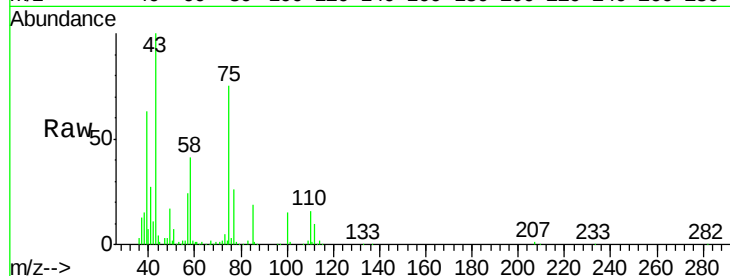
VF0629SBS01

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#54

cis-1,3-Dichloropropene

Concen: 20.45 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

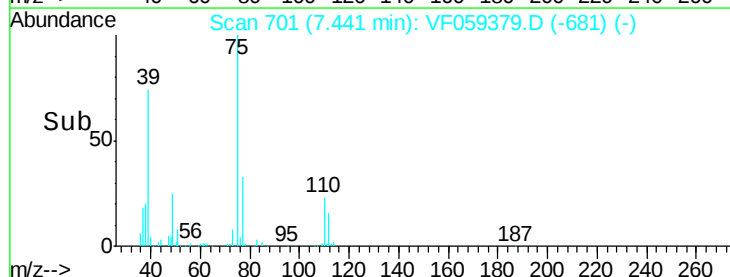
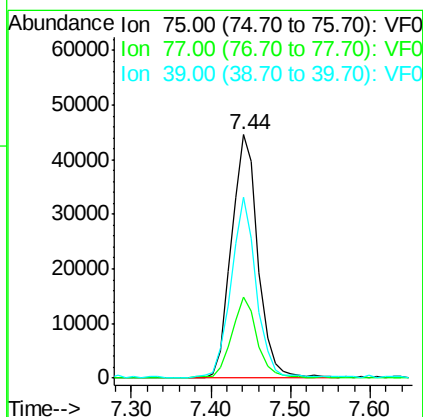
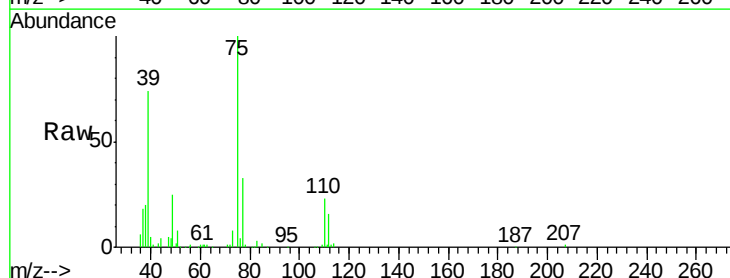
Tgt Ion: 75 Resp: 104176

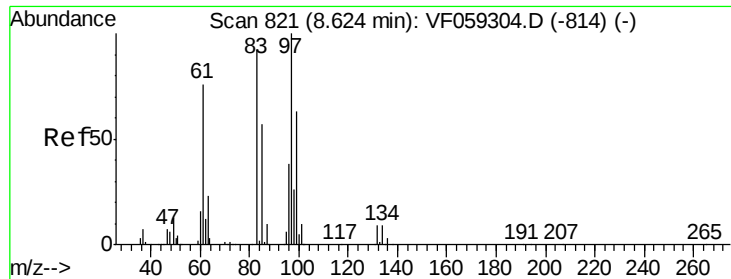
Ion Ratio Lower Upper

75 100

77 33.2 24.3 36.5

39 74.2 57.2 85.8





#55

1,1,2-Trichloroethane

Concen: 21.31 ug/l

RT: 8.62 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

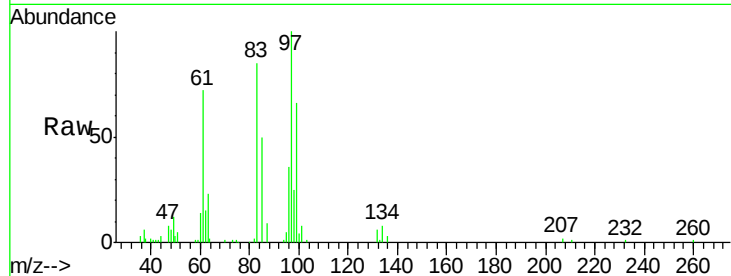
ClientSampleId :

VF0629SBS01

Tot Ion:	97	Resp:	53057
Ion	Ratio	Lower	Upper
97	100		
83	85.0	73.8	110.8
85	50.2	45.5	68.3
99	66.1	50.7	76.1

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM

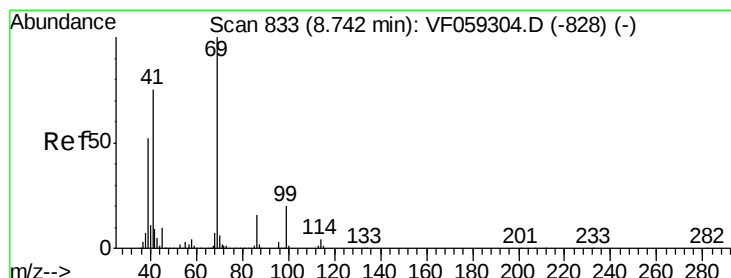
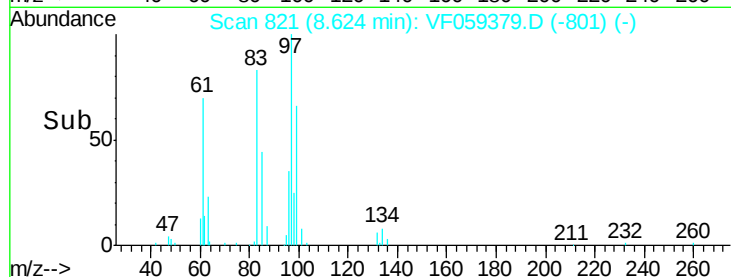
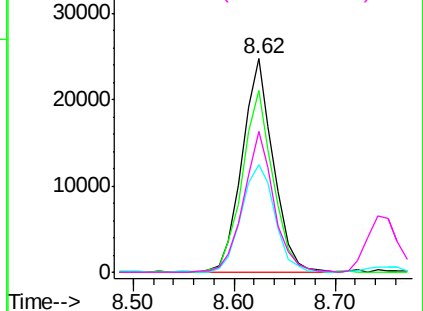


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 20.89 ug/l

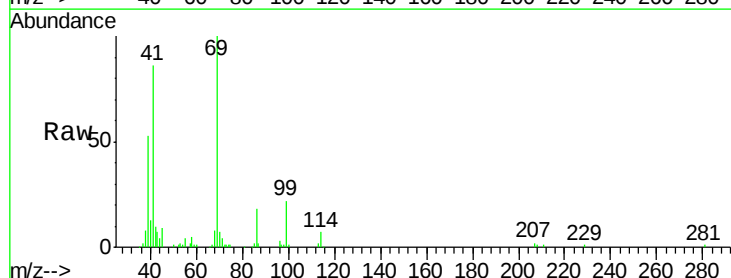
RT: 8.74 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

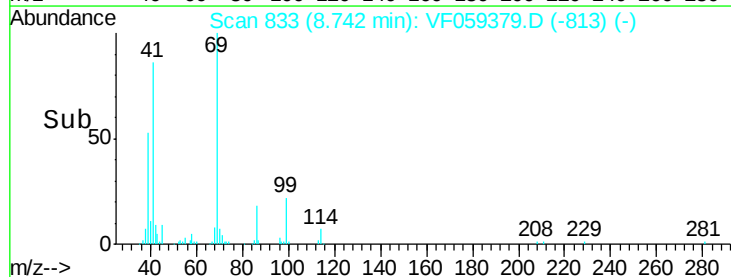
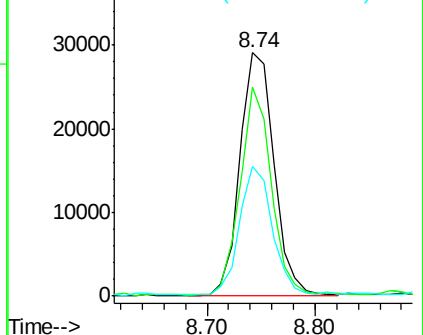
Tgt Ion:	69	Resp:	64439
Ion	Ratio	Lower	Upper
69	100		
41	85.7	60.3	90.5
39	53.2	42.2	63.4

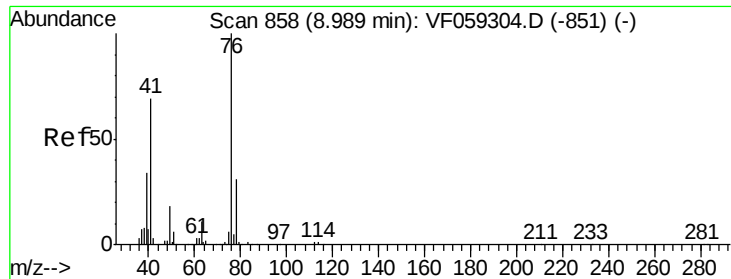


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.91 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 76 Resp: 89279

Ion Ratio Lower Upper

76 100

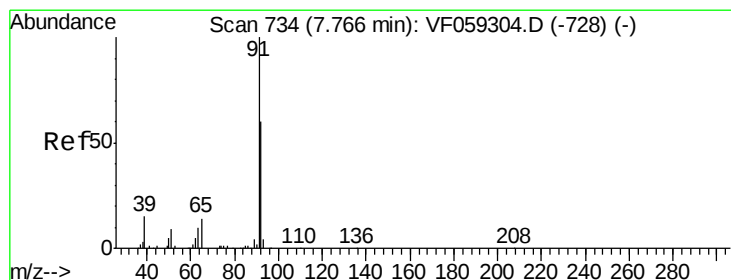
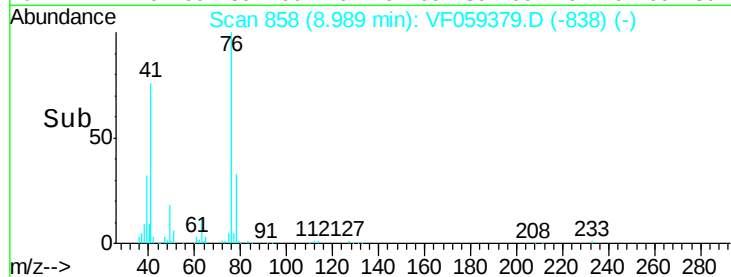
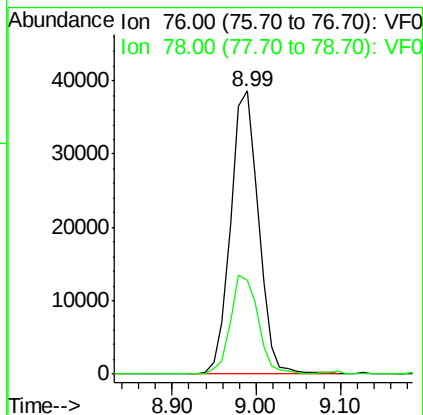
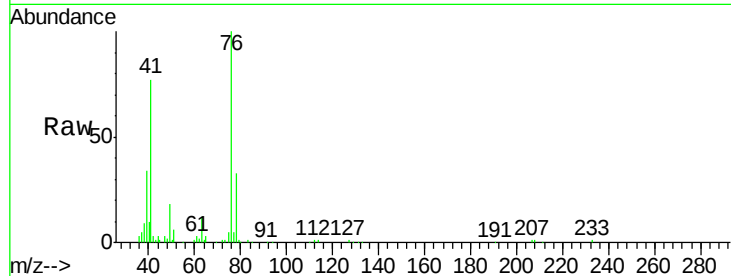
78 33.4 24.9 37.3

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#58

2-Chloroethyl Vinyl ether

Concen: 100.11 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059379.D

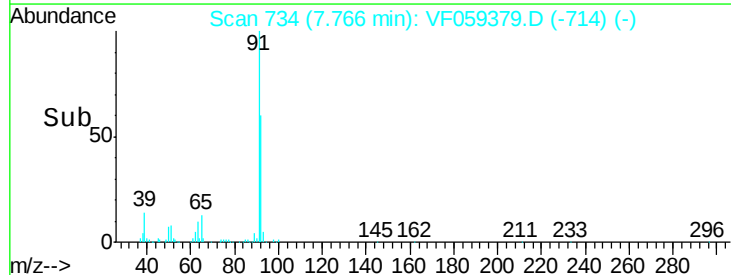
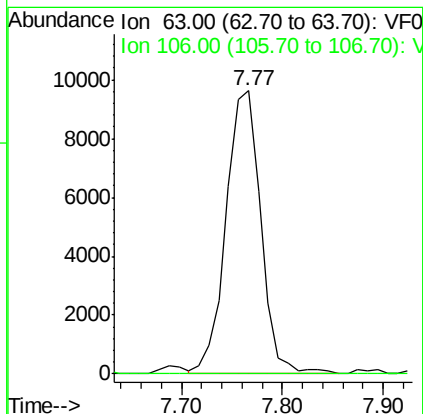
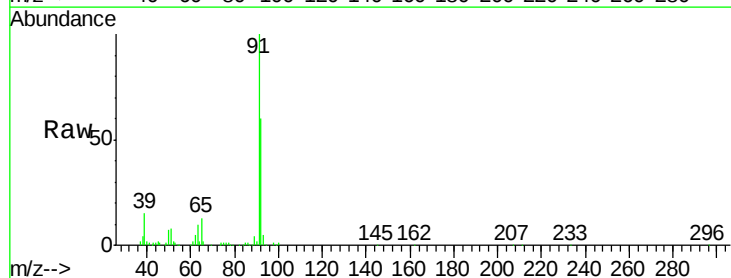
Acq: 29 Jun 2018 16:23

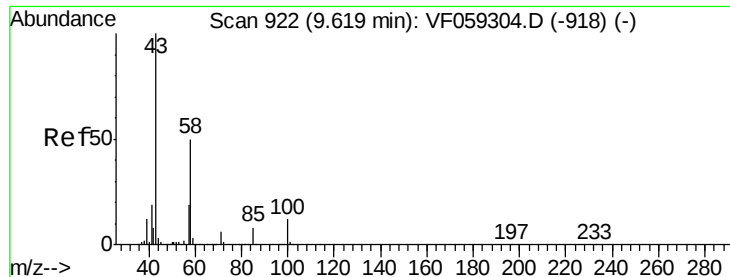
Tgt Ion: 63 Resp: 23156

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 121.38 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 43 Resp: 233055

Ion Ratio Lower Upper

43 100

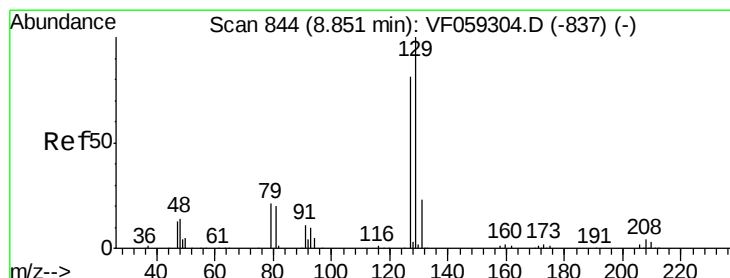
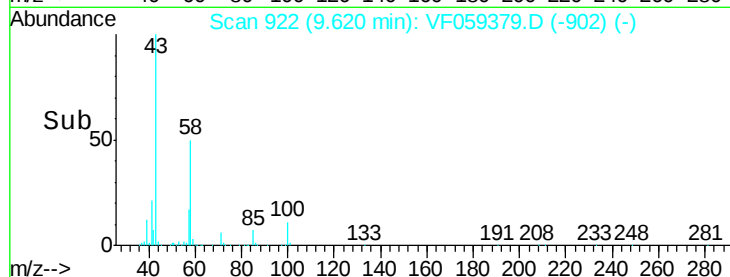
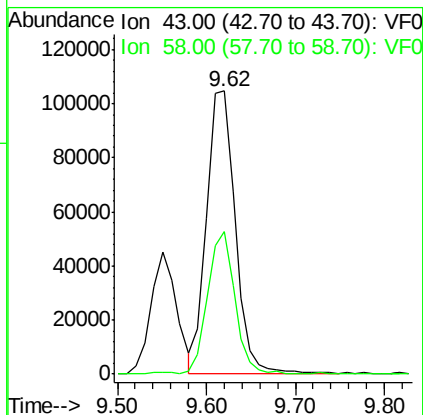
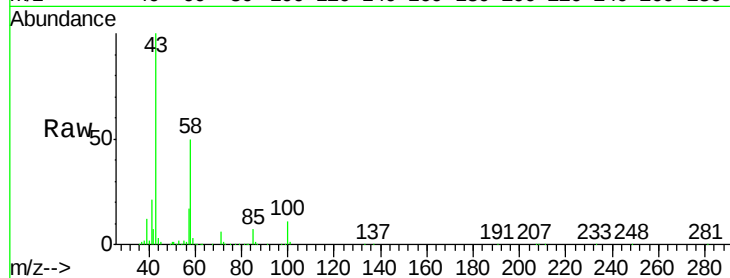
58 50.3 23.3 69.9

Manual Integrations

APPROVED

apatel

7/2/2018 1:11:53 PM



#60

Dibromochloromethane

Concen: 20.61 ug/l

RT: 8.85 min Scan# 844

Delta R.T. 0.00 min

Lab File: VF059379.D

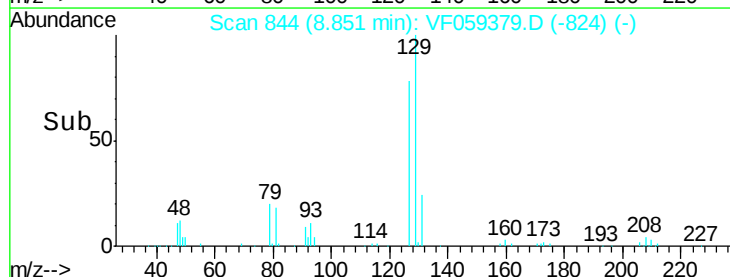
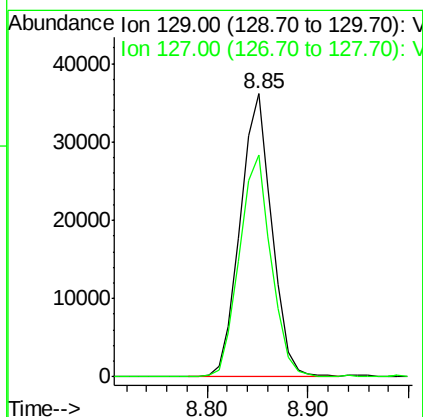
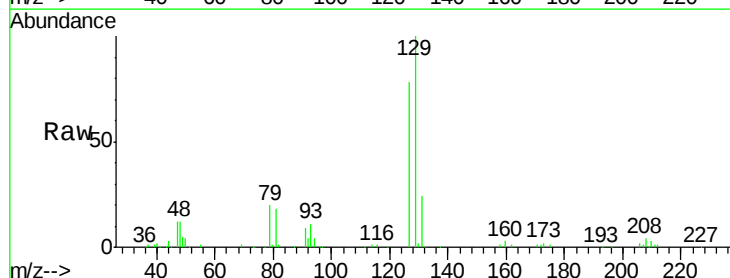
Acq: 29 Jun 2018 16:23

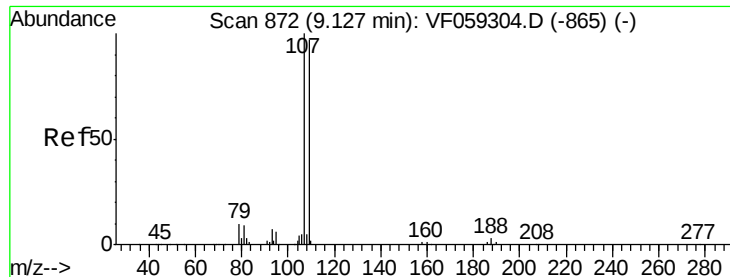
Tgt Ion: 129 Resp: 79206

Ion Ratio Lower Upper

129 100

127 78.3 40.7 122.1





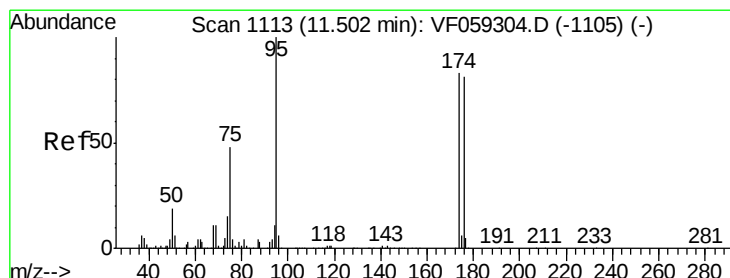
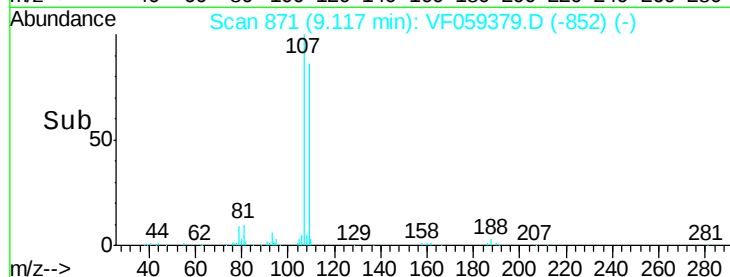
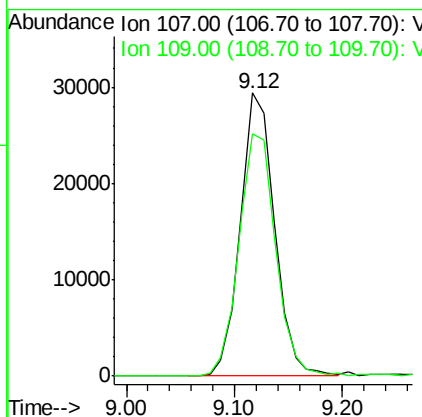
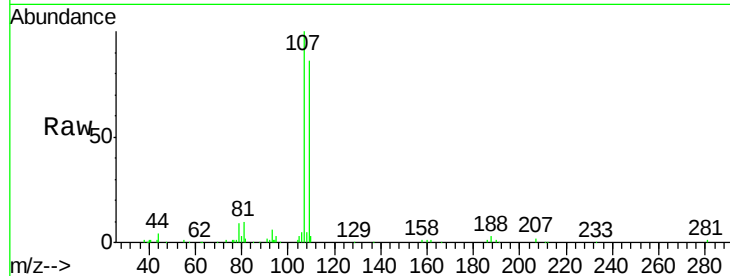
#61
 1,2-Dibromoethane
 Concen: 21.41 ug/l
 RT: 9.12 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion:107 Resp: 64648
 Ion Ratio Lower Upper
 107 100
 109 85.7 77.3 115.9

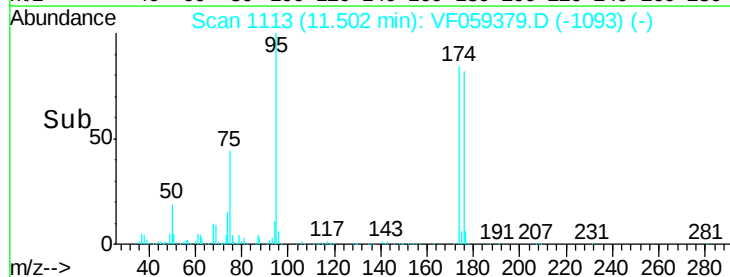
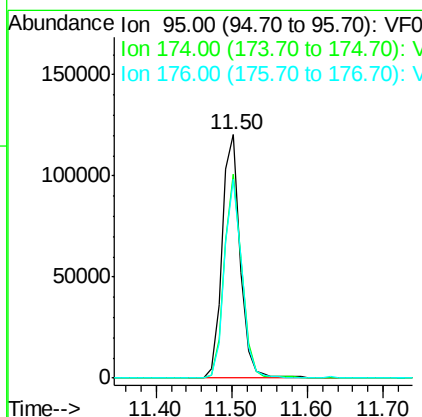
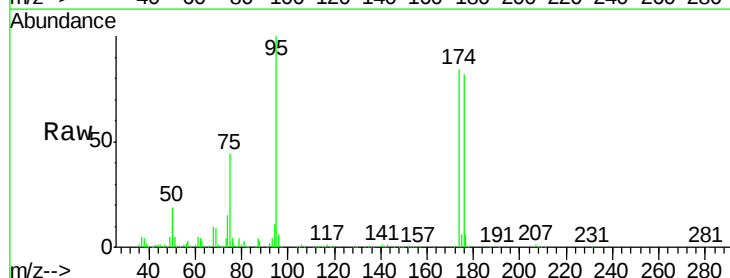
Manual Integrations
 APPROVED

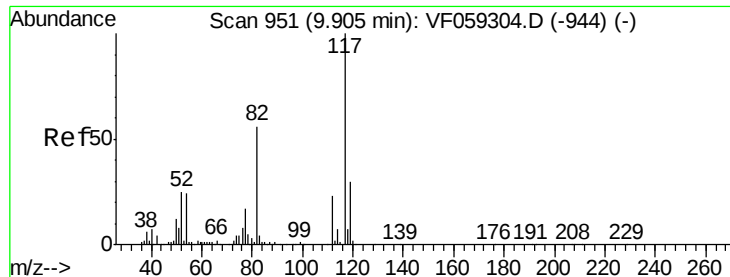
apatel
 7/2/2018 1:11:53 PM



#62
 4-Bromofluorobenzene
 Concen: 44.64 ug/l
 RT: 11.50 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion: 95 Resp: 201533
 Ion Ratio Lower Upper
 95 100
 174 83.9 0.0 165.2
 176 81.7 0.0 161.0





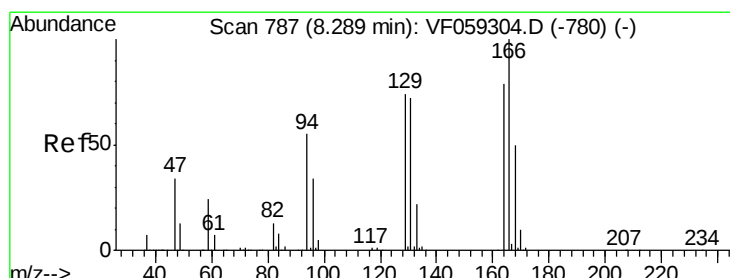
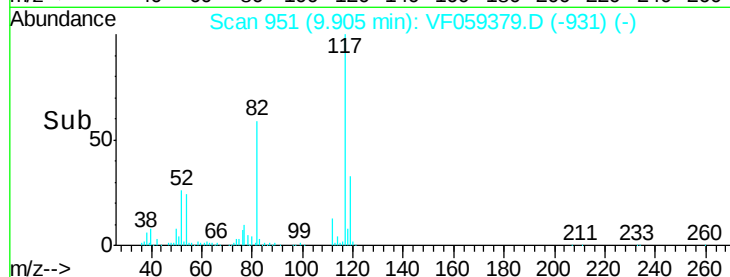
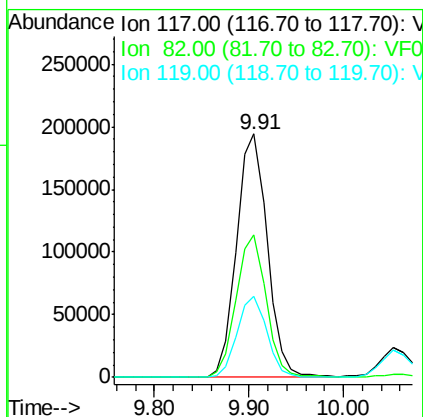
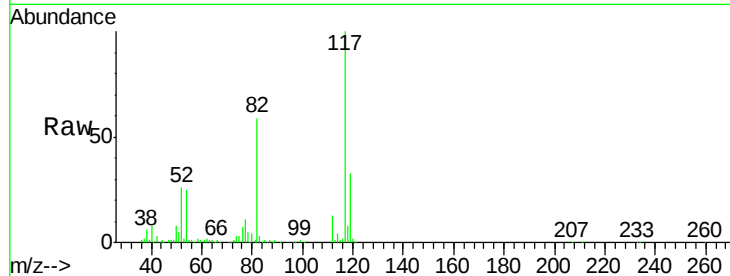
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.6	44.6	66.8
119	33.5	24.1	36.1

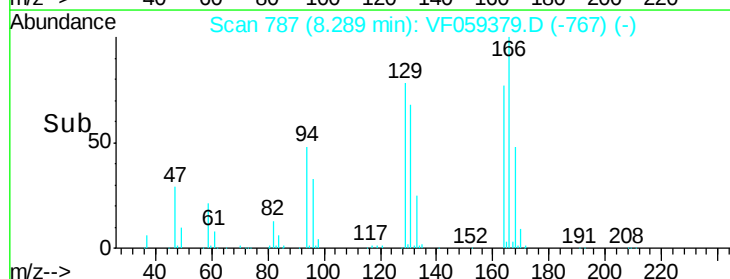
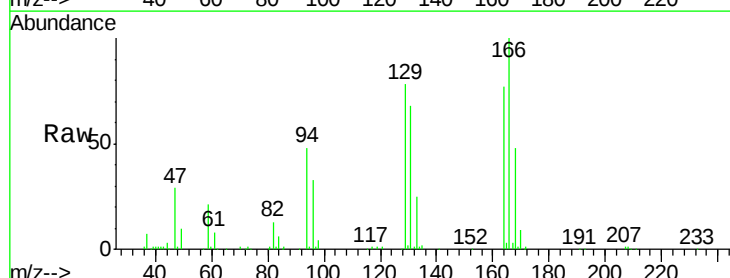
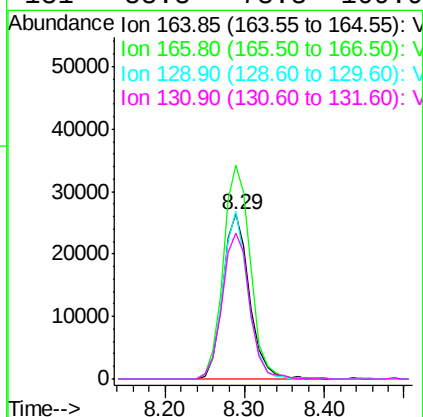
Manual Integrations
APPROVED

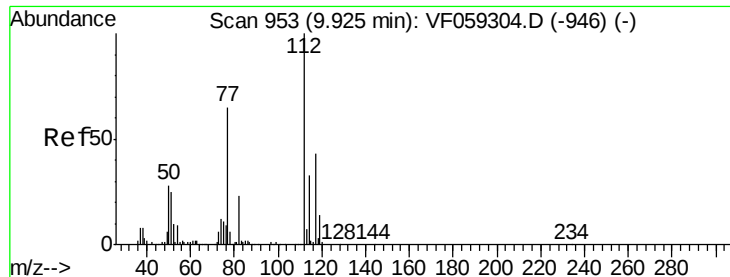
apatel
7/2/2018 1:11:53 PM



#64
Tetrachloroethene
Concen: 21.76 ug/l
RT: 8.29 min Scan# 787
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.6	101.1	151.7
129	101.7	75.0	112.4
131	88.8	73.3	109.9





#65

Chlorobenzene

Concen: 21.16 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion:112 Resp: 171858

Ion Ratio Lower Upper

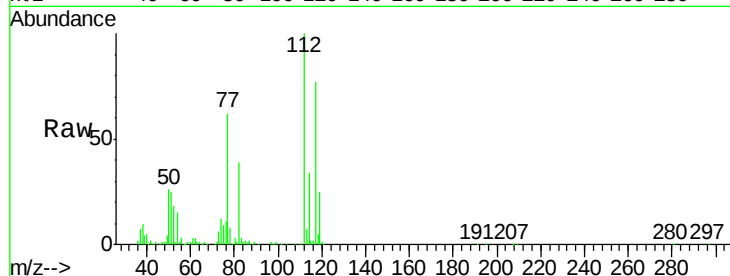
112 100

114 34.2 26.5 39.7

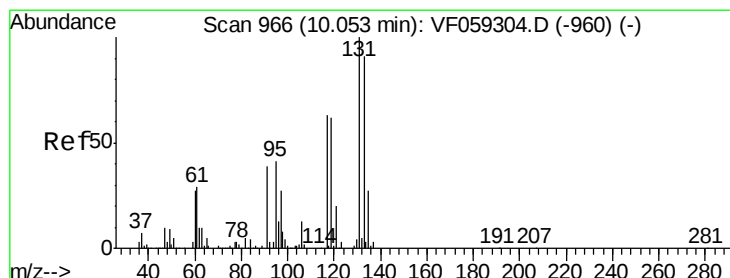
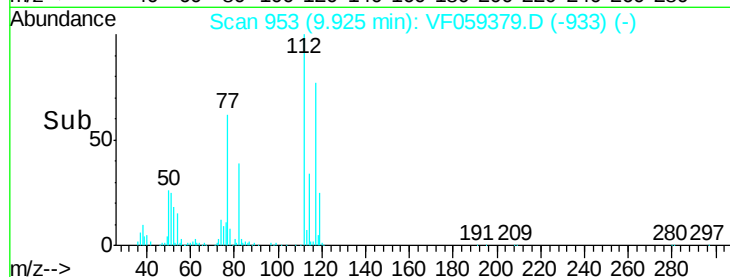
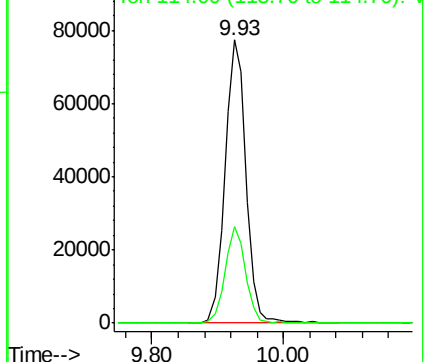
Manual Integrations
APPROVED

apatel

7/2/2018 1:11:53 PM



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.08 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

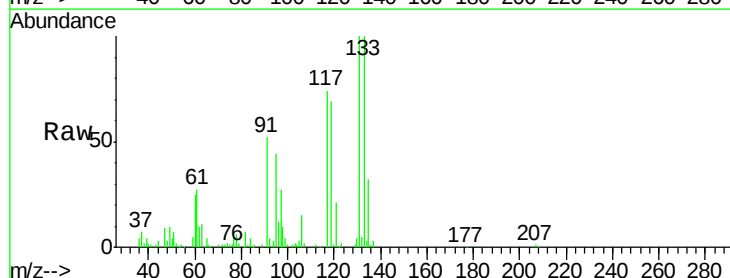
Tgt Ion:131 Resp: 74044

Ion Ratio Lower Upper

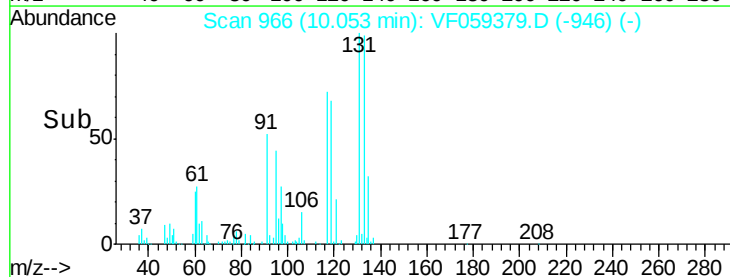
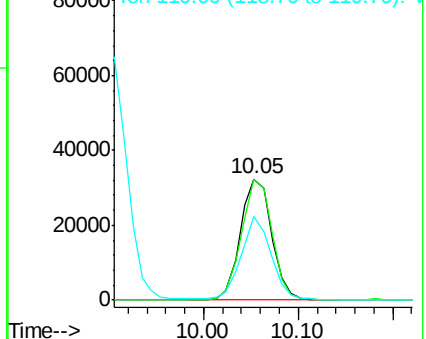
131 100

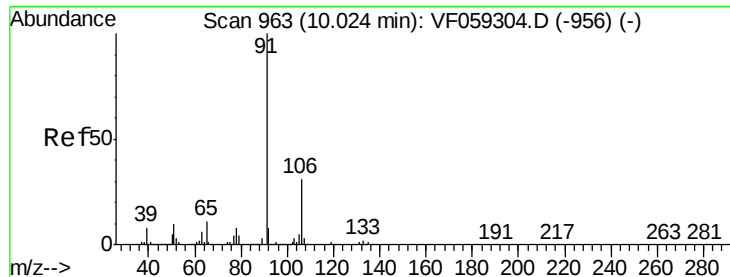
133 99.8 45.3 135.9

119 68.8 31.3 93.9



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





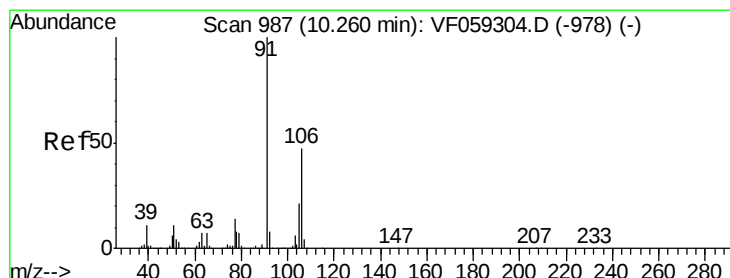
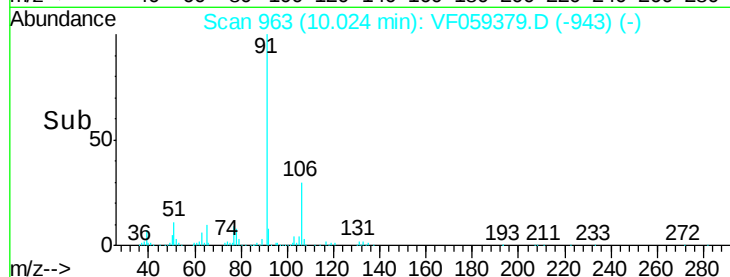
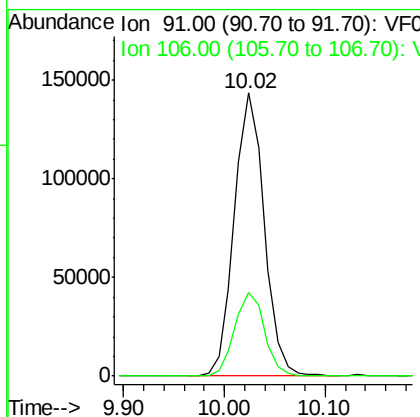
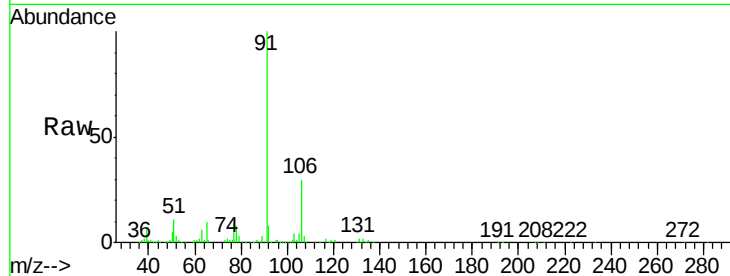
#67
Ethyl Benzene
Concen: 21.60 ug/l
RT: 10.02 min Scan# 963
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion: 91 Resp: 297598
Ion Ratio Lower Upper
91 100
106 29.7 24.8 37.2

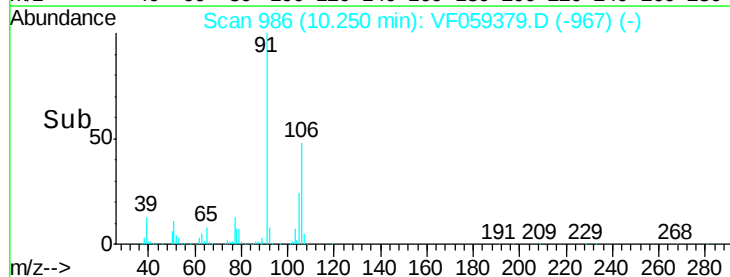
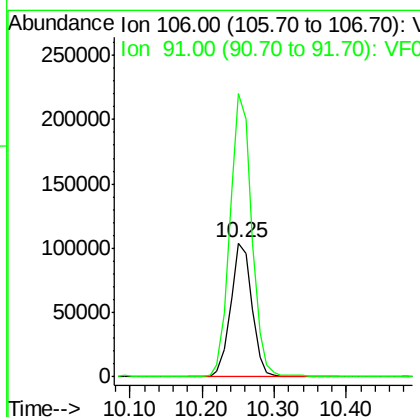
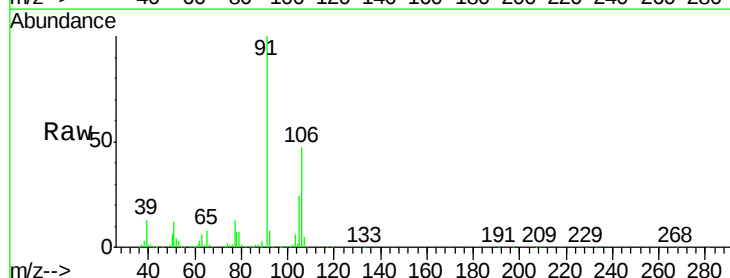
Manual Integrations
APPROVED

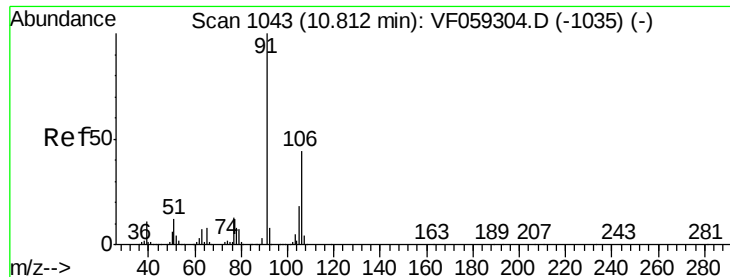
apatel
7/2/2018 1:11:53 PM



#68
m/p-Xylenes
Concen: 43.79 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion: 106 Resp: 214759
Ion Ratio Lower Upper
106 100
91 211.8 170.8 256.2





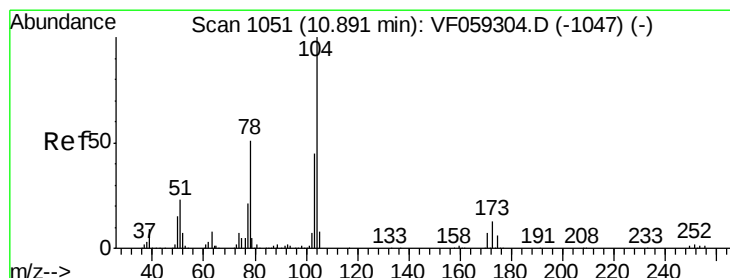
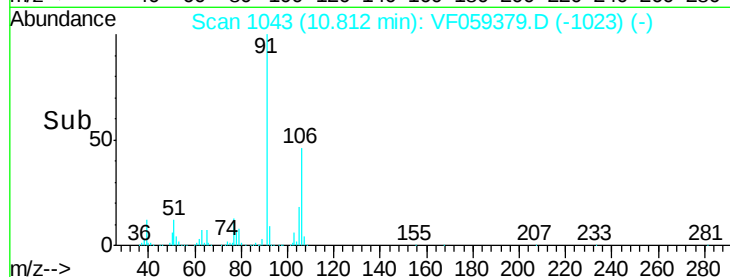
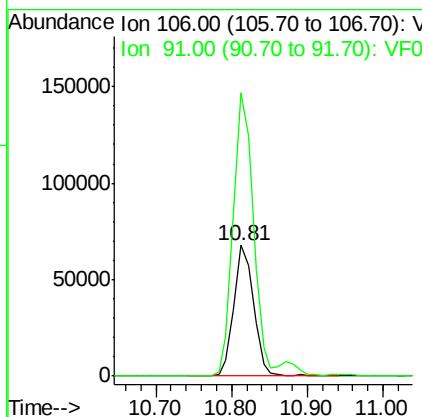
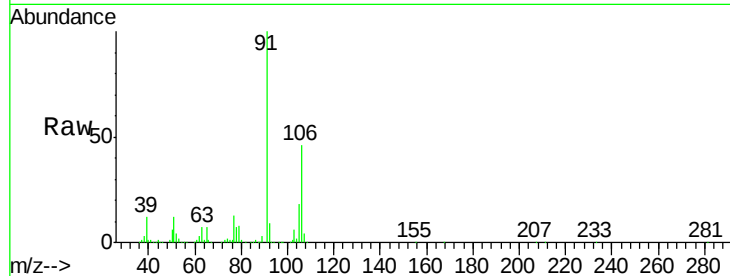
#69
o-Xylene
Concen: 22.30 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	216.3	114.6	343.6

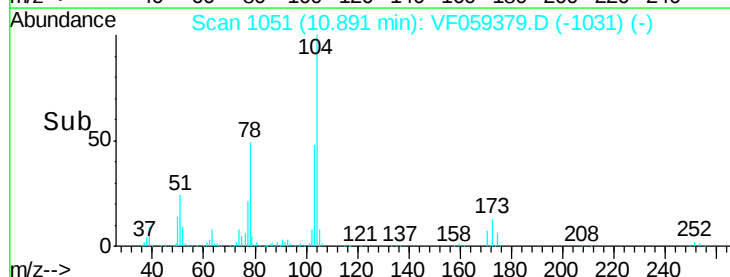
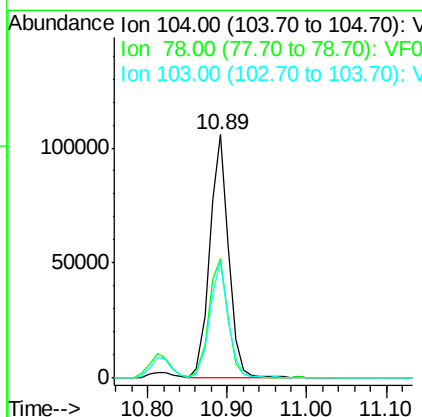
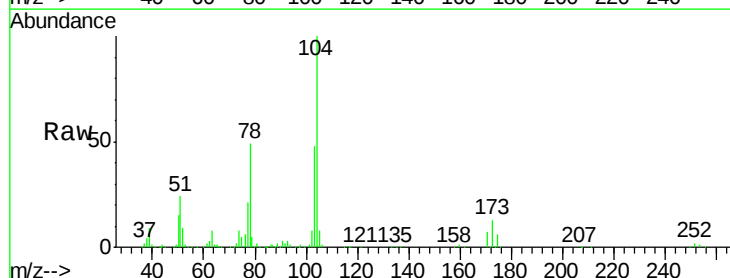
Manual Integrations
APPROVED

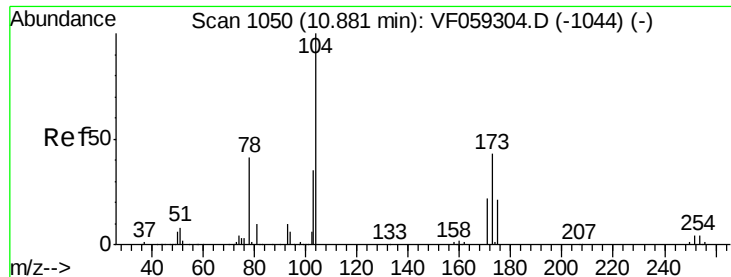
apatel
7/2/2018 1:11:53 PM



#70
Styrene
Concen: 20.98 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	49.3	40.9	61.3
103	103	47.8	36.5	54.7





#71

Bromoform

Concen: 21.40 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion:173 Resp: 51522

Ion Ratio Lower Upper

173 100

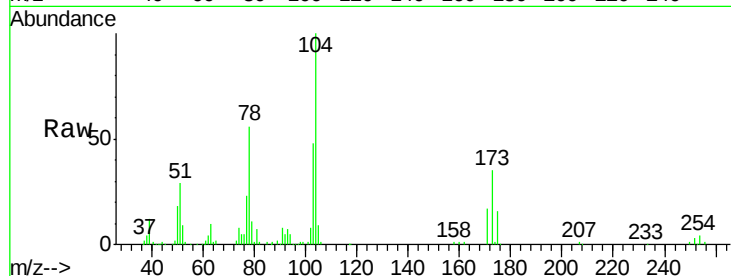
175 45.4 24.8 74.3

254 0.0 0.0 0.0

Manual Integrations
APPROVED

apatel

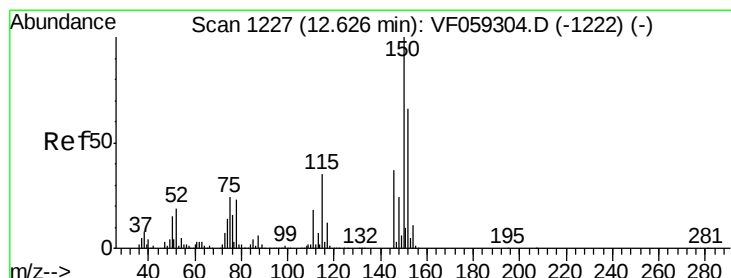
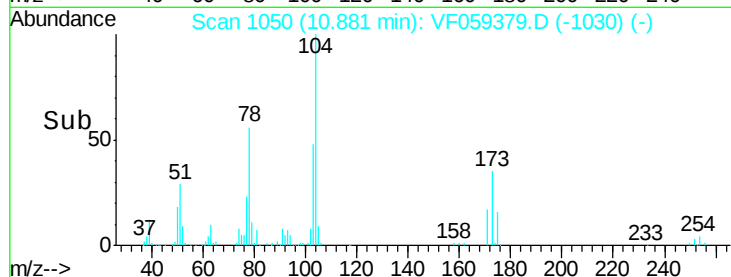
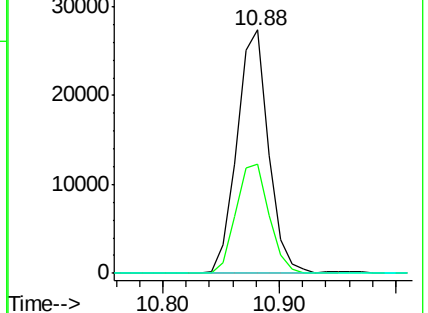
7/2/2018 1:11:53 PM



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: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

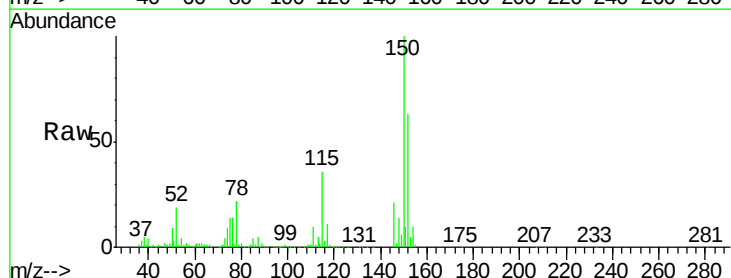
Tgt Ion:152 Resp: 270211

Ion Ratio Lower Upper

152 100

115 56.5 27.1 81.3

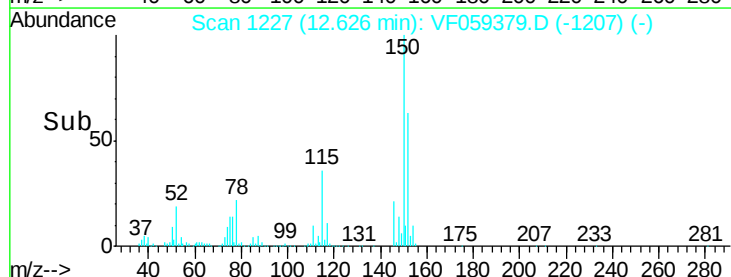
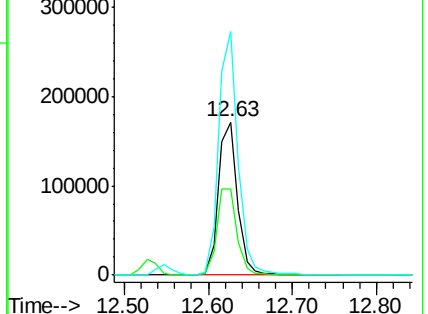
150 159.0 0.0 305.2

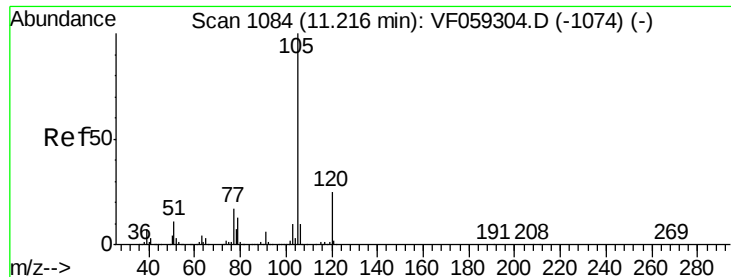


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.21 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 105 Resp: 349635

Ion Ratio Lower Upper

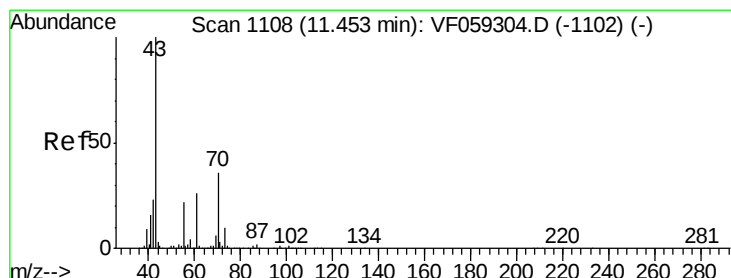
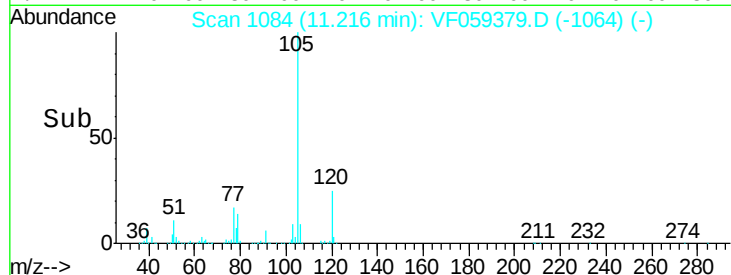
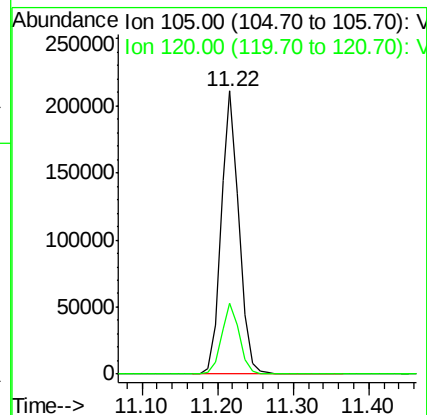
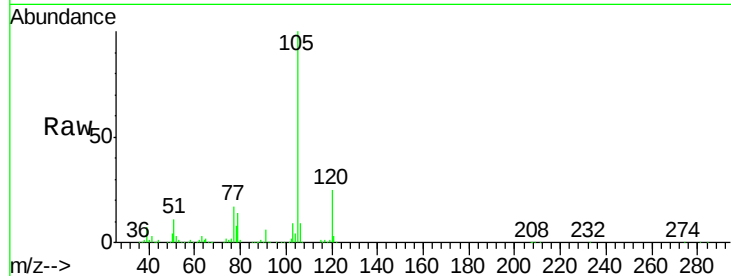
105 100

120 25.3 12.3 36.8

Manual Integrations
APPROVED

apatel

7/2/2018 1:11:53 PM



#74

N-ethyl acetate

Concen: 22.69 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion: 43 Resp: 129620

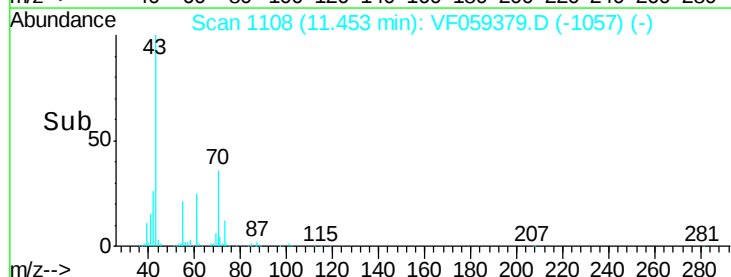
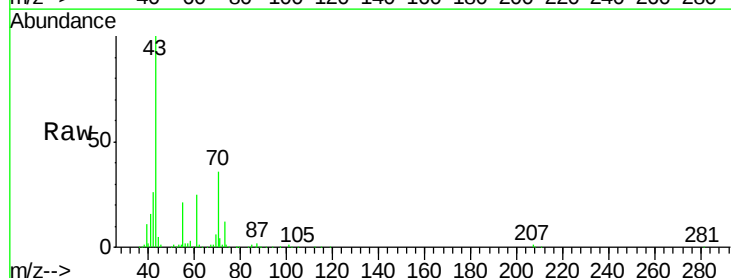
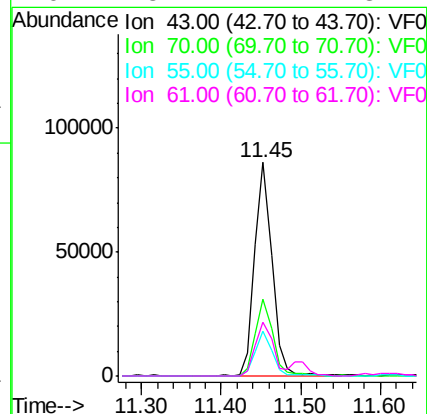
Ion Ratio Lower Upper

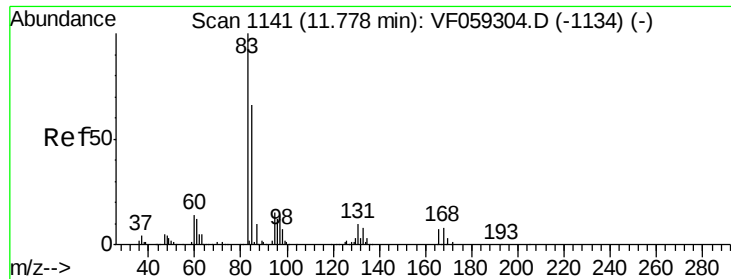
43 100

70 36.0 28.8 43.2

55 21.0 17.4 26.0

61 25.2 21.1 31.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.62 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

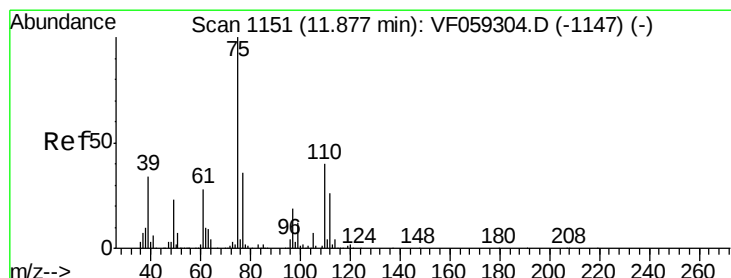
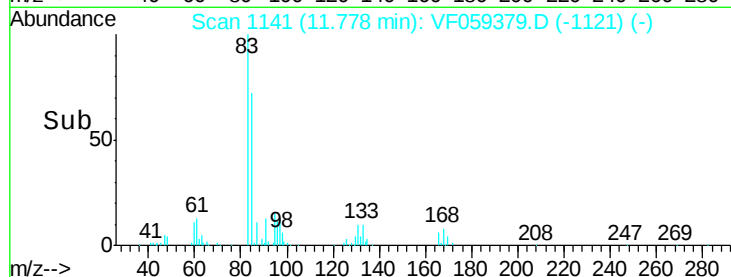
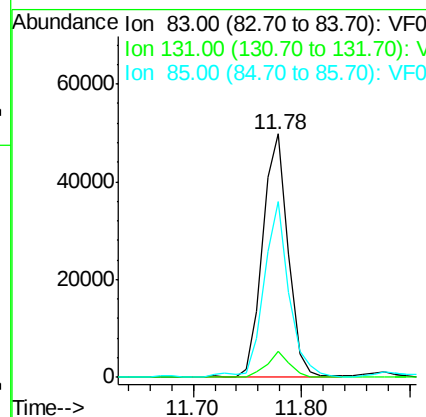
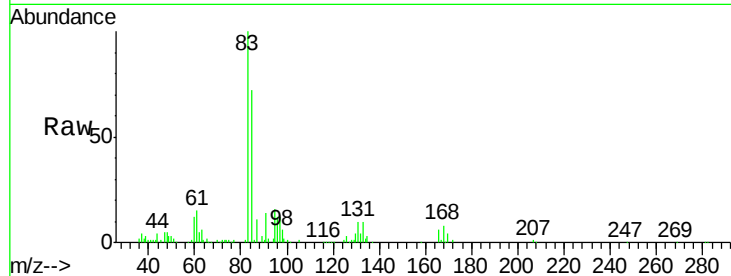
ClientSampleId :

VF0629SBS01

Tot Ion:	83	Resp:	81987
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.9	14.6
85	72.3	32.8	98.4

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#76

1,2,3-Trichloropropane

Concen: 22.02 ug/l

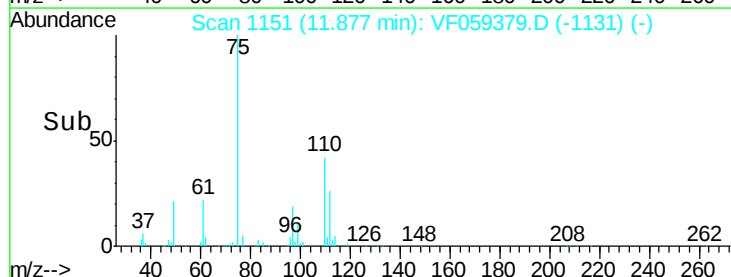
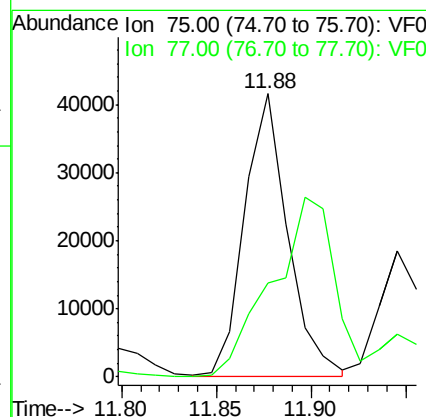
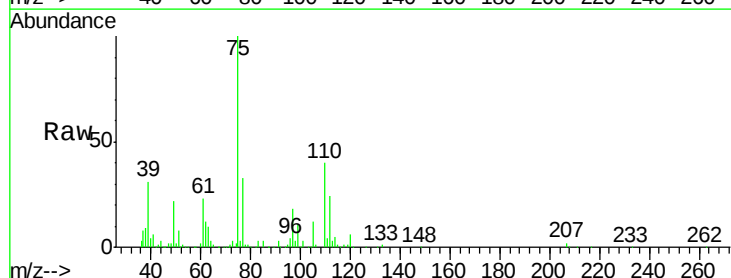
RT: 11.88 min Scan# 1151

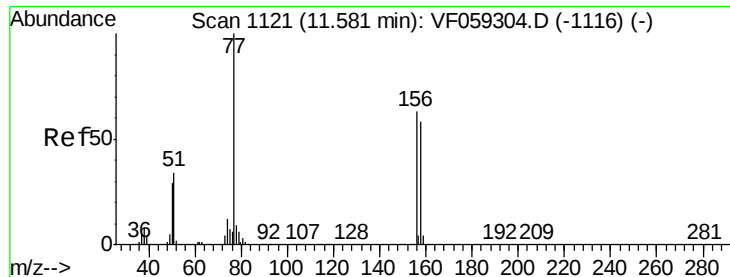
Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	75	Resp:	66028
Ion	Ratio	Lower	Upper
75	100		
77	33.4	18.0	54.0





#77

Bromobenzene

Concen: 20.34 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion:156 Resp: 88826

Ion Ratio Lower Upper

156 100

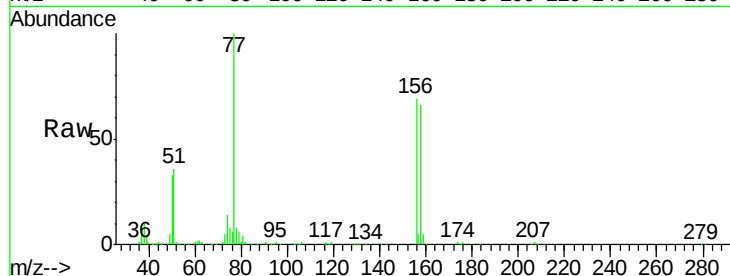
77 144.4 79.7 238.9

158 95.3 46.2 138.6

Manual Integrations
APPROVED

apatel

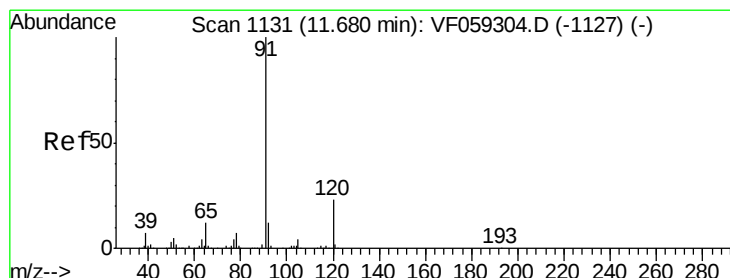
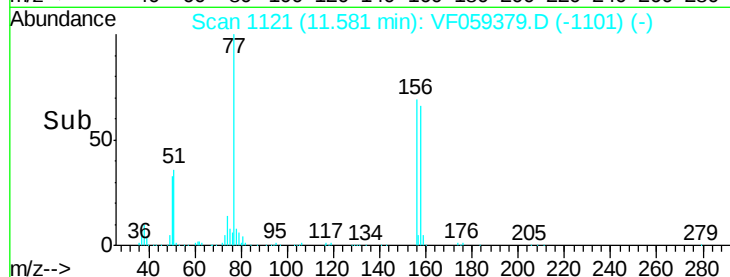
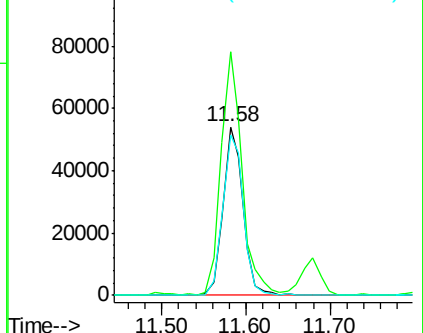
7/2/2018 1:11:53 PM



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: 21.83 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VF059379.D

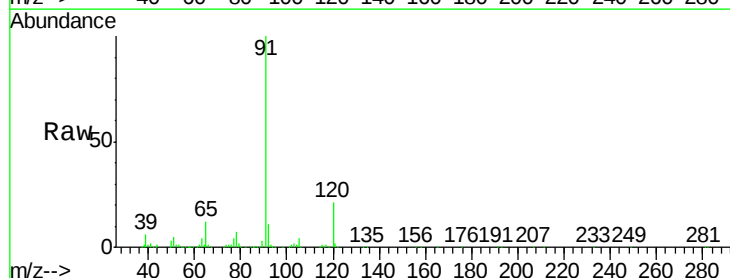
Acq: 29 Jun 2018 16:23

Tgt Ion: 91 Resp: 412643

Ion Ratio Lower Upper

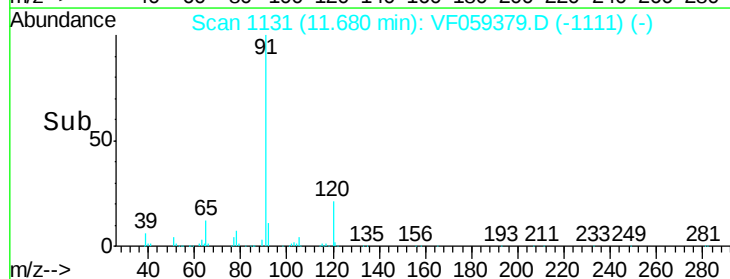
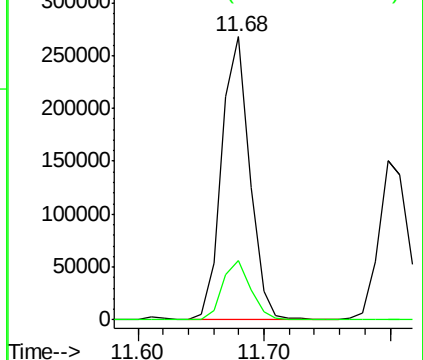
91 100

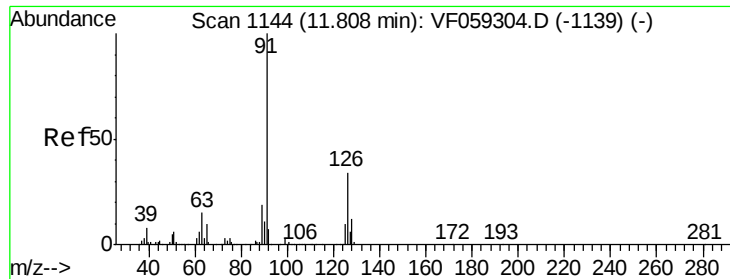
120 20.8 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.04 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion: 91 Resp: 243025

Ion Ratio Lower Upper

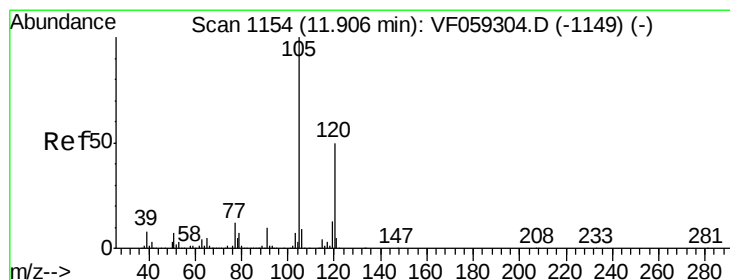
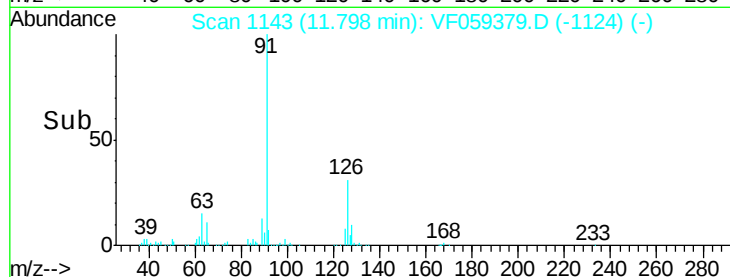
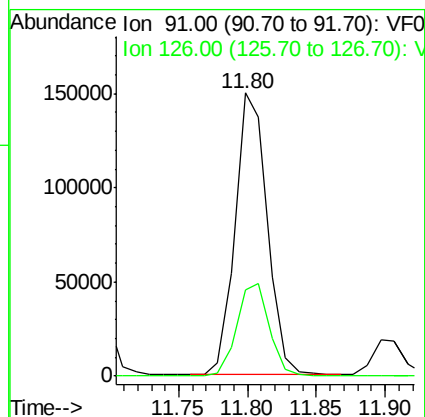
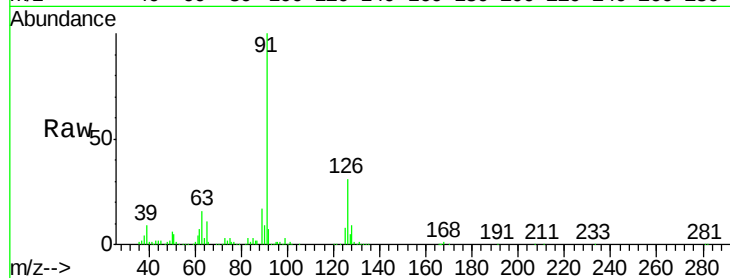
91 100

126 30.5 17.2 51.5

Manual Integrations
APPROVED

apatel

7/2/2018 1:11:53 PM



#80

1,3,5-Trimethylbenzene

Concen: 21.74 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF059379.D

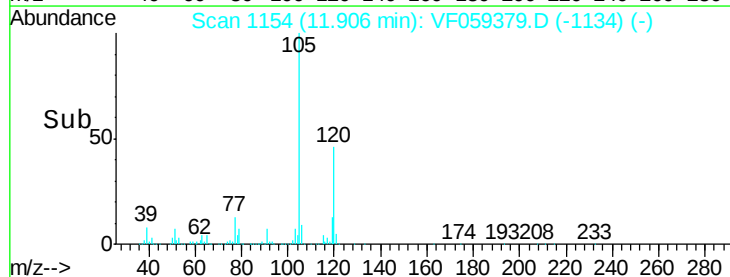
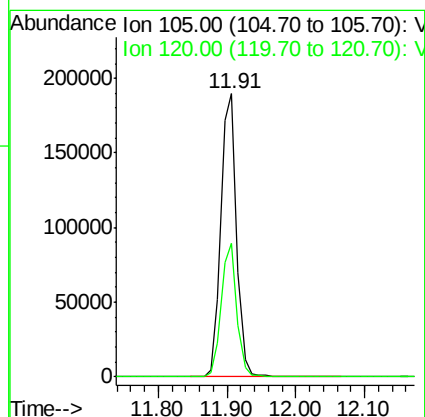
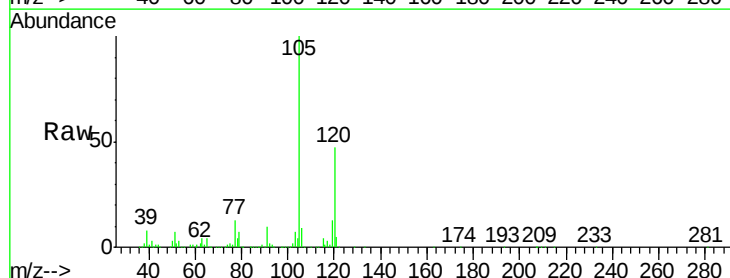
Acq: 29 Jun 2018 16:23

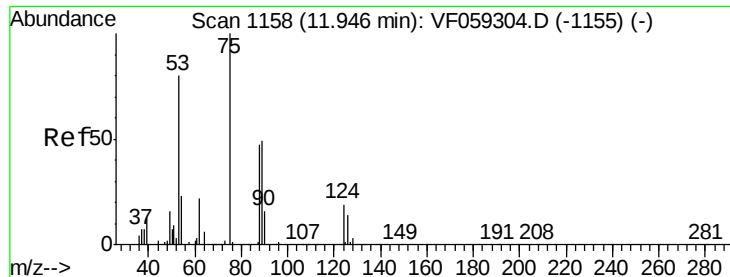
Tgt Ion: 105 Resp: 299716

Ion Ratio Lower Upper

105 100

120 47.1 24.9 74.7





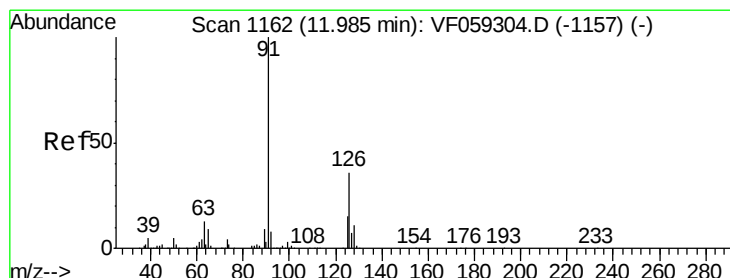
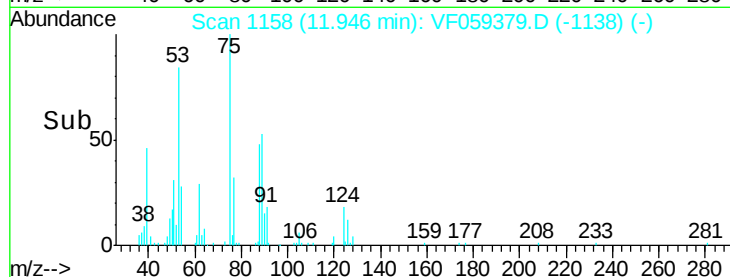
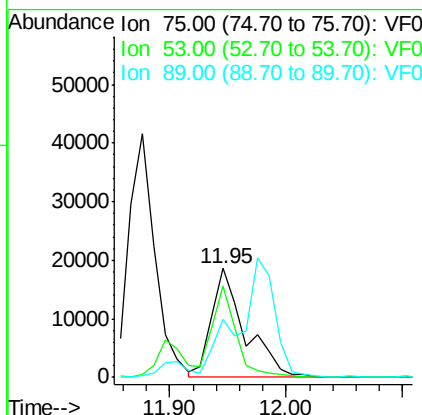
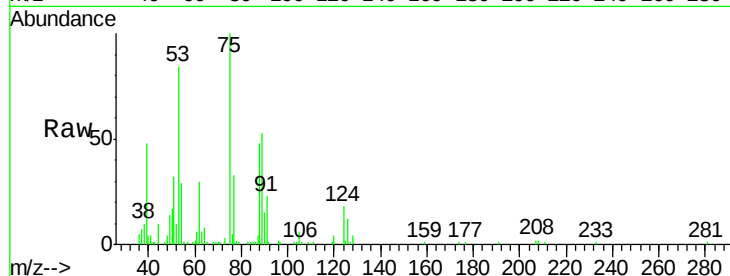
#81
trans-1,4-Dichloro-2-butene
Concen: 21.01 ug/l
RT: 11.95 min Scan# 1158
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	84.3	68.8	103.2
89	53.1	42.0	63.0

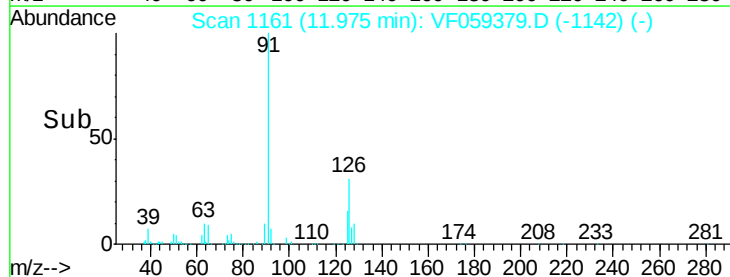
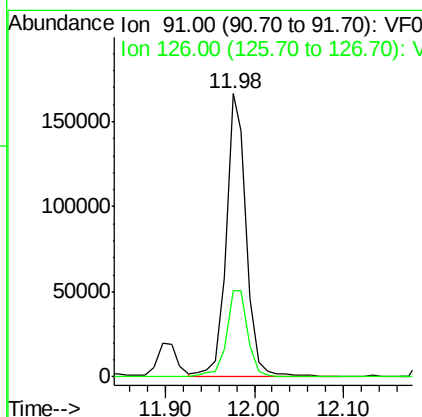
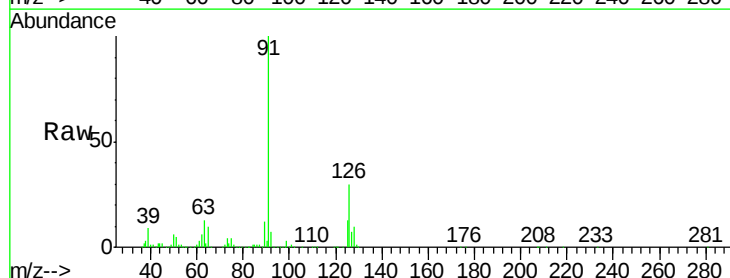
Manual Integrations
APPROVED

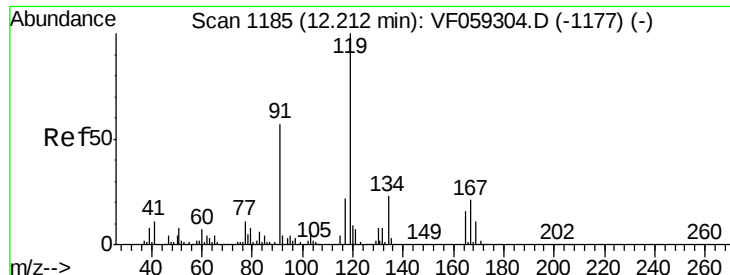
apatel
7/2/2018 1:11:53 PM



#82
4-Chlorotoluene
Concen: 21.37 ug/l
RT: 11.98 min Scan# 1161
Delta R.T. -0.01 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.4	18.2	54.6





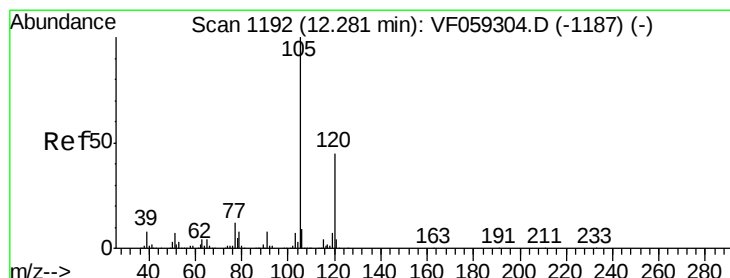
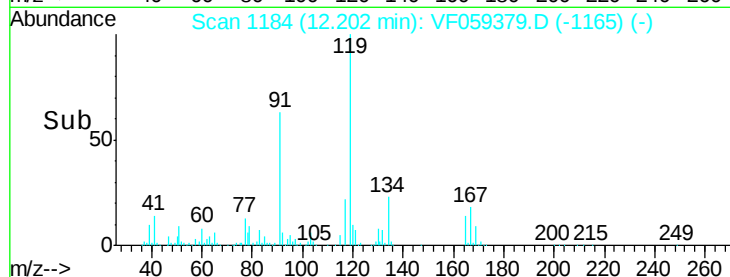
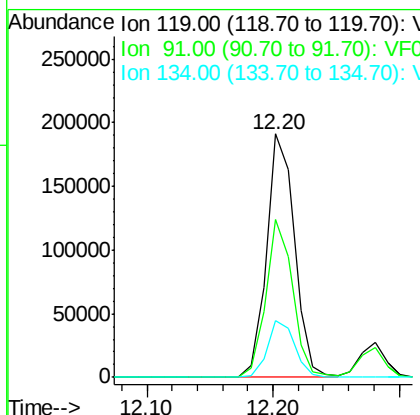
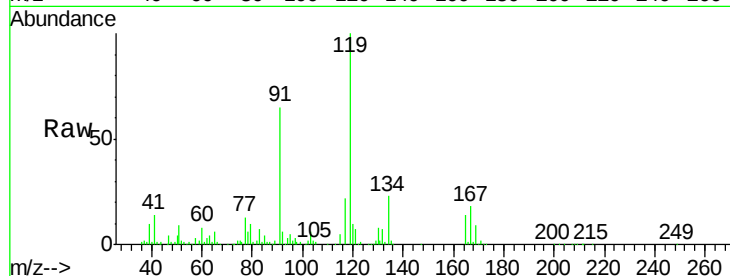
#83
 tert-Butylbenzene
 Concen: 21.45 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	295793		
91	65.1	28.4	85.2	
134	23.1	11.7	35.1	

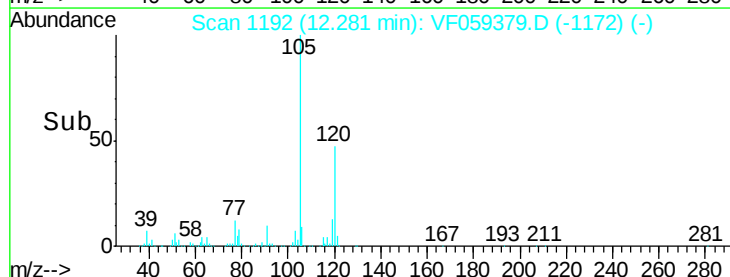
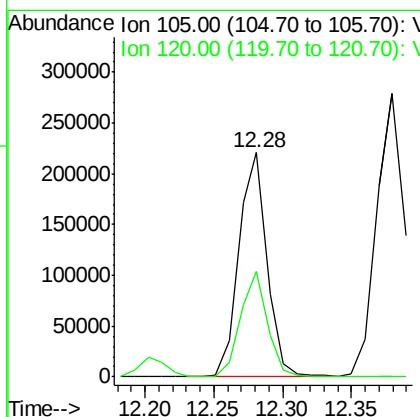
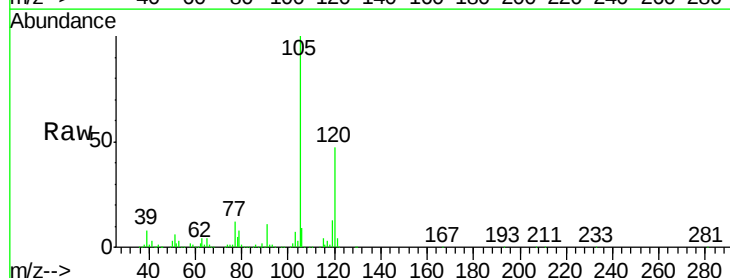
Manual Integrations
 APPROVED

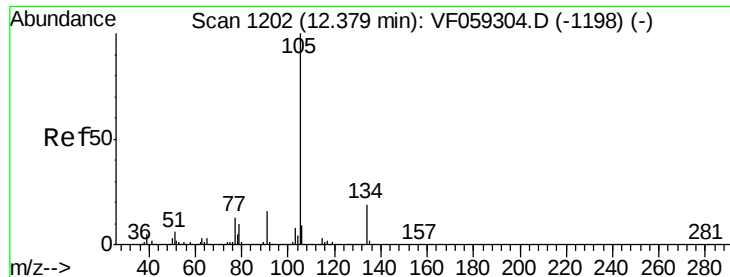
apatel
 7/2/2018 1:11:53 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.53 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	312601		
120	47.2	22.8	68.4	





#85

sec-Butylbenzene

Concen: 21.94 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

ClientSampleId :

VF0629SBS01

Tot Ion:105 Resp: 401076

Ion Ratio Lower Upper

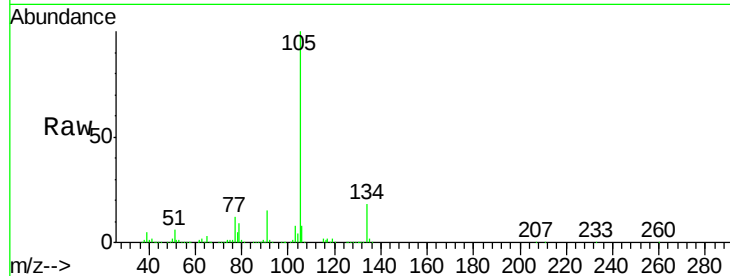
105 100

134 18.2 9.4 28.3

Manual Integrations
APPROVED

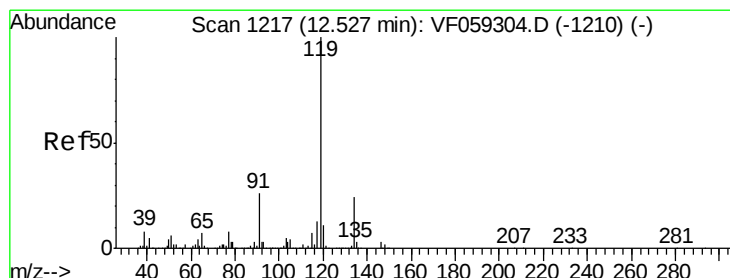
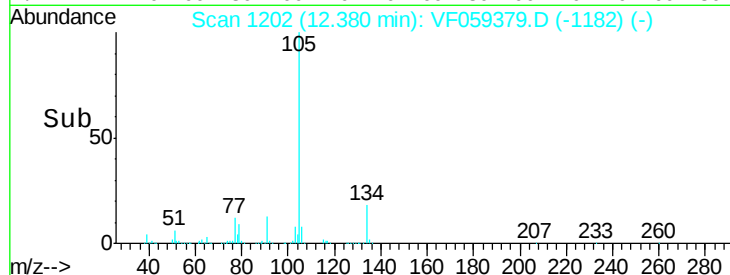
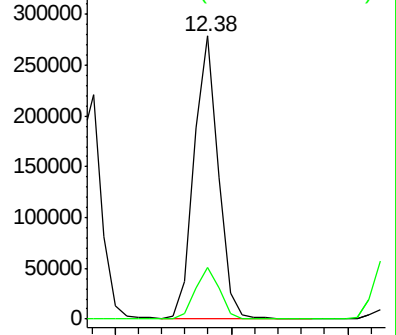
apatel

7/2/2018 1:11:53 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.54 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

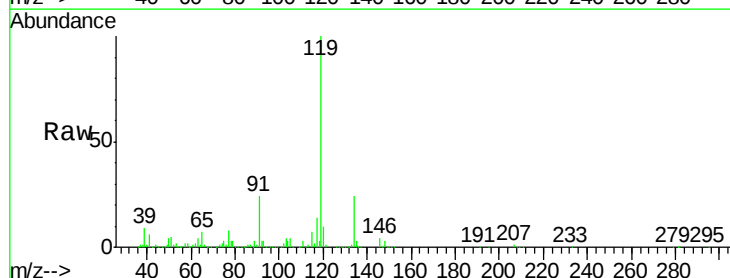
Tgt Ion:119 Resp: 330461

Ion Ratio Lower Upper

119 100

134 24.0 12.2 36.4

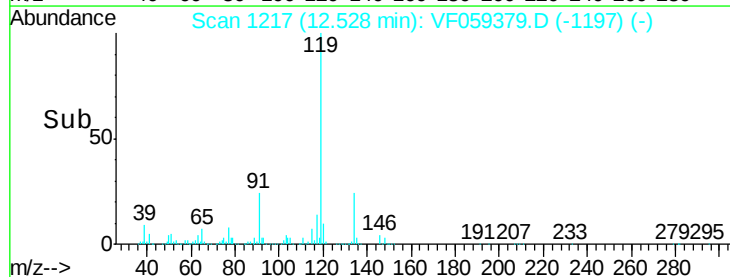
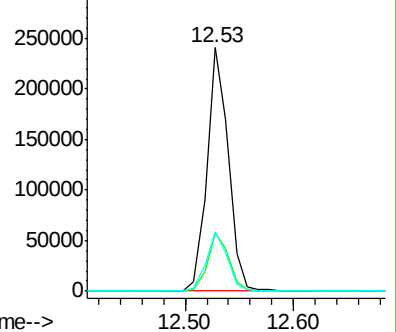
91 24.5 12.9 38.6

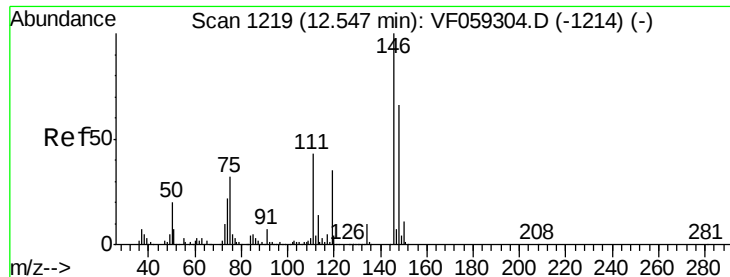


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





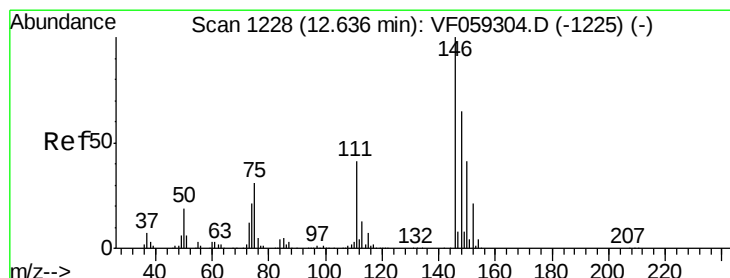
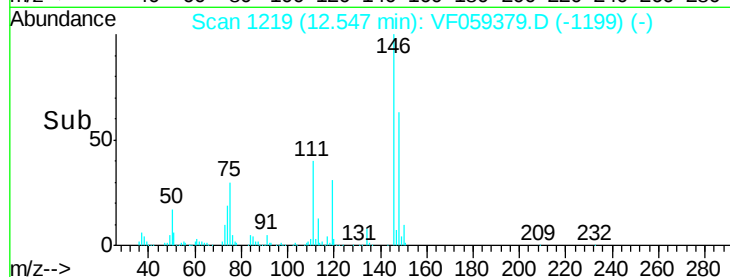
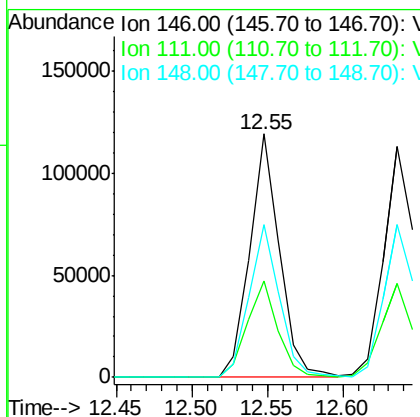
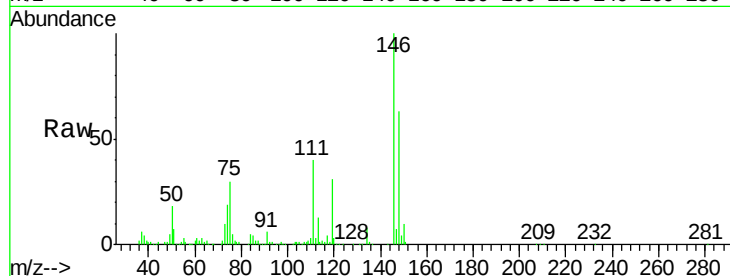
#87
 1,3-Dichlorobenzene
 Concen: 20.11 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.4	64.2
148	62.9	32.8	98.4

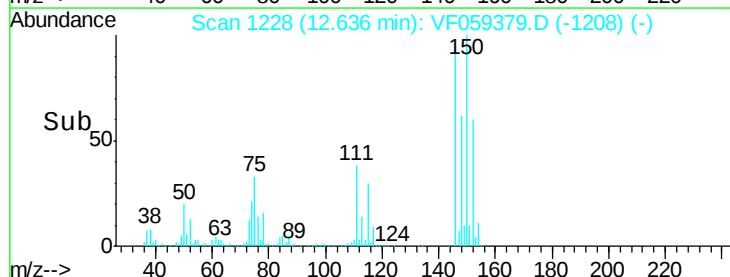
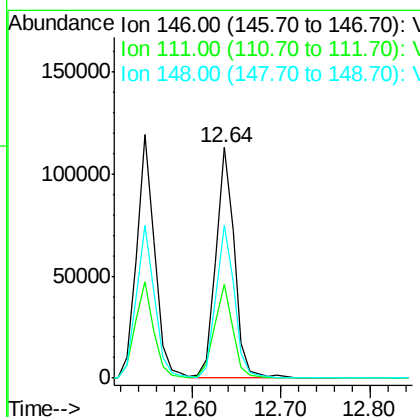
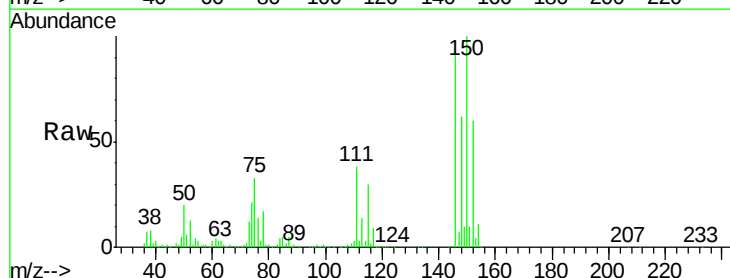
Manual Integrations
 APPROVED

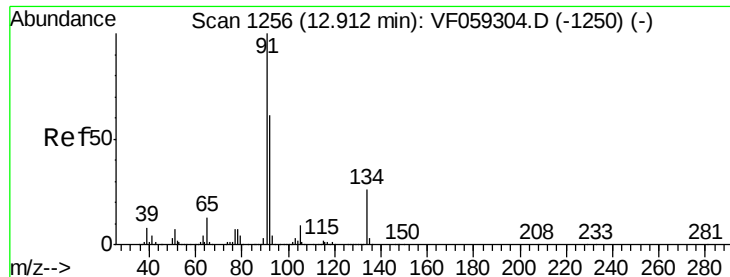
apatel
 7/2/2018 1:11:53 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.10 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.7	62.1
148	66.5	32.8	98.3





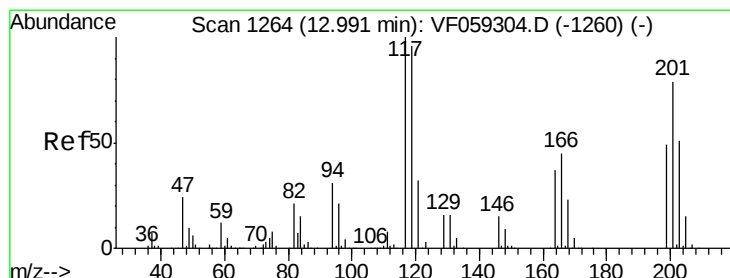
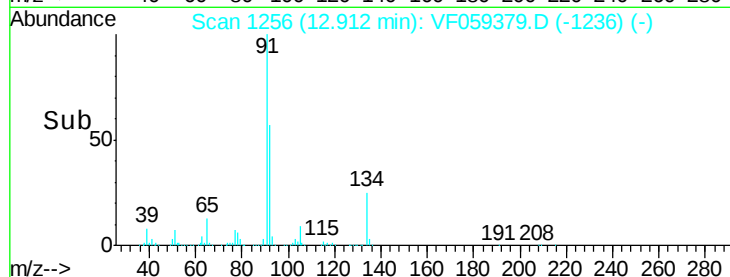
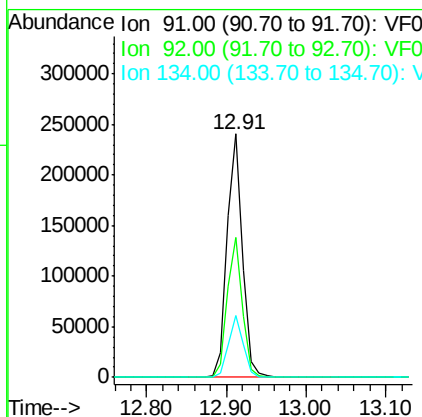
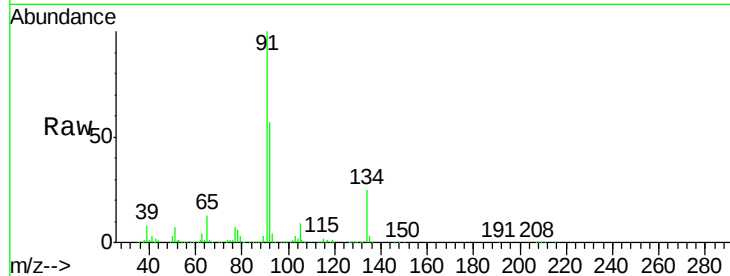
#89
n-Butylbenzene
Concen: 21.21 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Instrument :
MSVOA_F
ClientSampleId :
VF0629SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.4	30.3	91.0
134	25.2	12.9	38.7

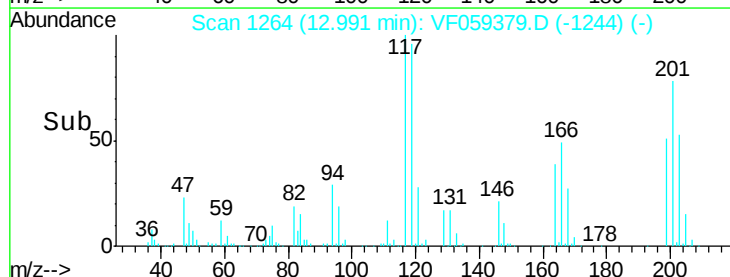
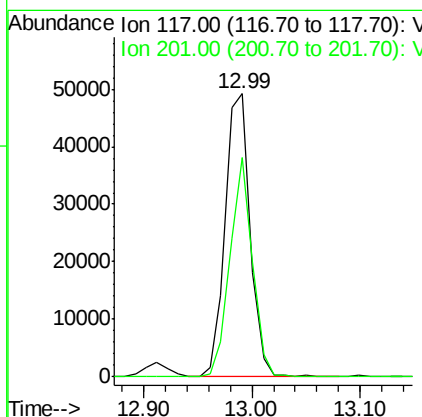
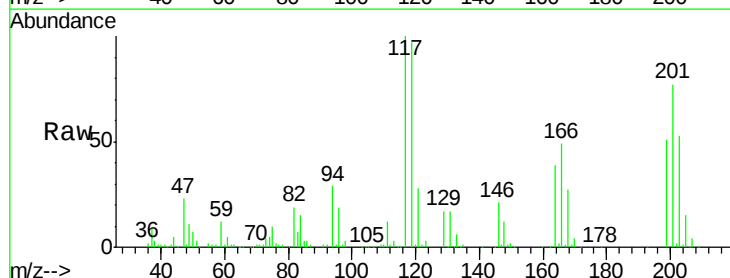
Manual Integrations
APPROVED

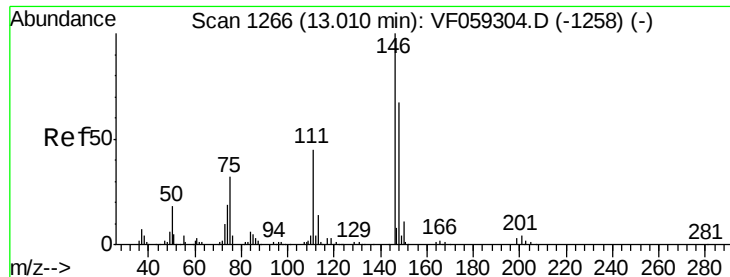
apatel
7/2/2018 1:11:53 PM



#90
Hexachloroethane
Concen: 20.81 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VF059379.D
Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.5	39.5	118.5





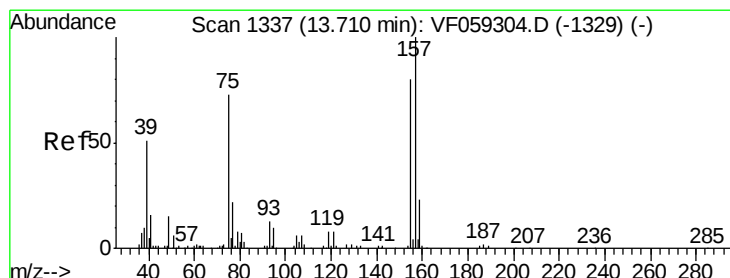
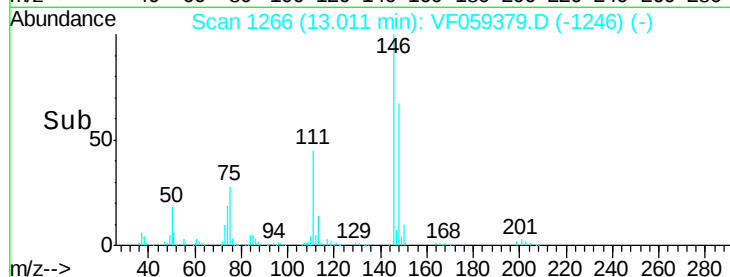
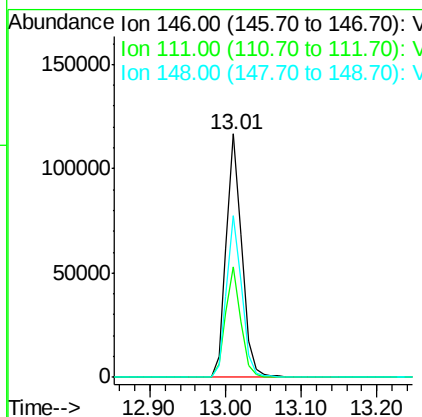
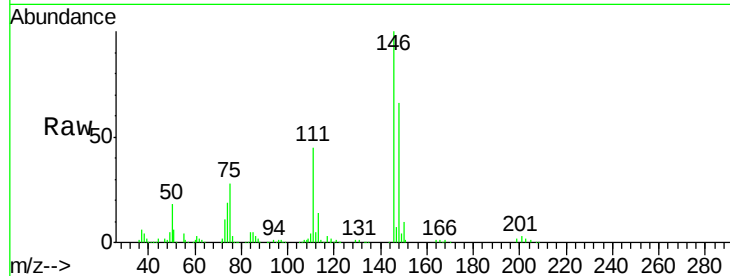
#91
 1,2-Dichlorobenzene
 Concen: 21.10 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.7	68.0
148	66.5	33.5	100.4

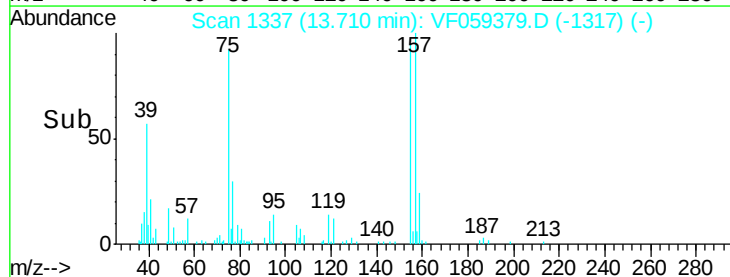
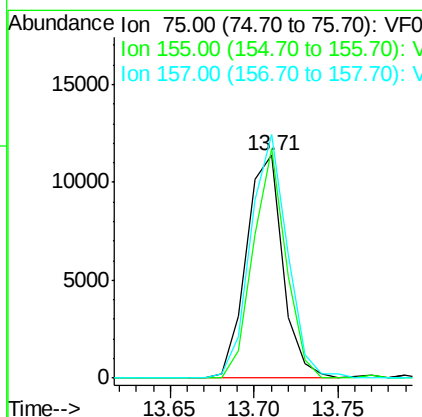
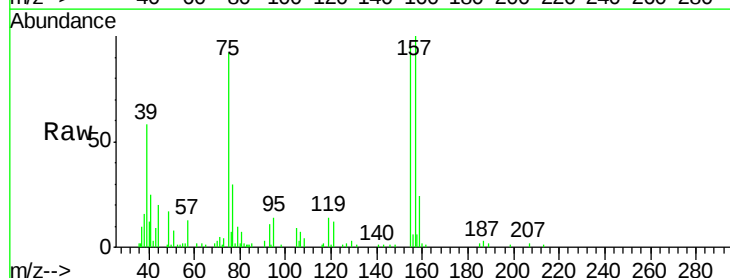
Manual Integrations
 APPROVED

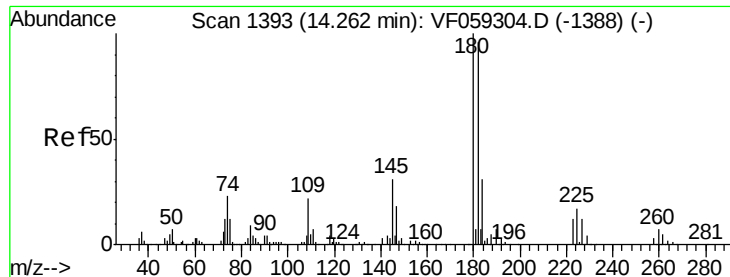
apatel
 7/2/2018 1:11:53 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.47 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.2	54.6	163.8
157	109.2	68.7	205.9





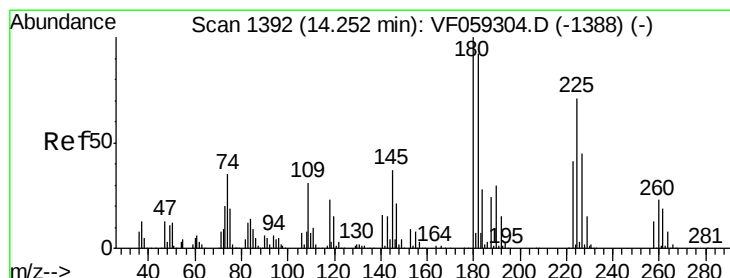
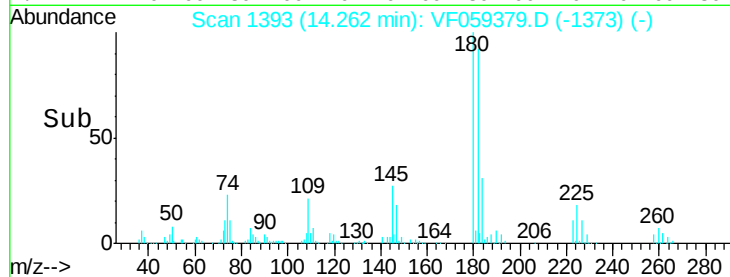
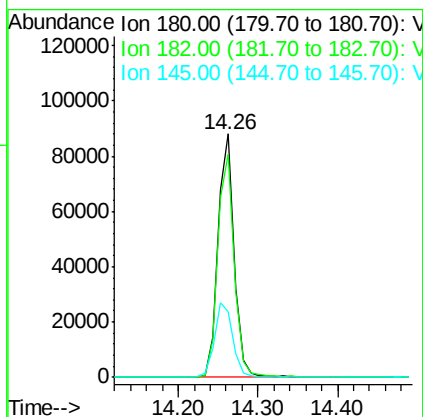
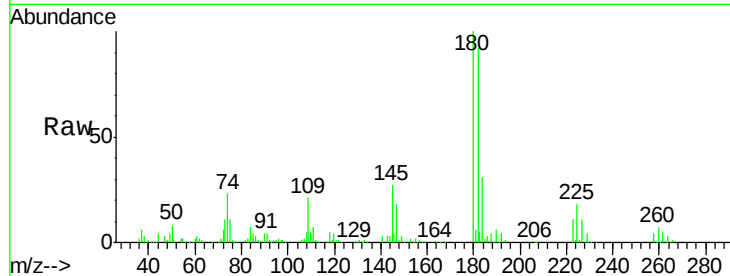
#93
 1,2,4-Trichlorobenzene
 Concen: 21.63 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0629SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	126818		
182	91.7	48.1	144.3	
145	26.9	15.3	45.8	

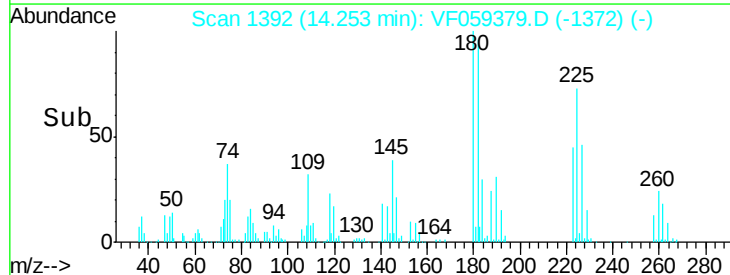
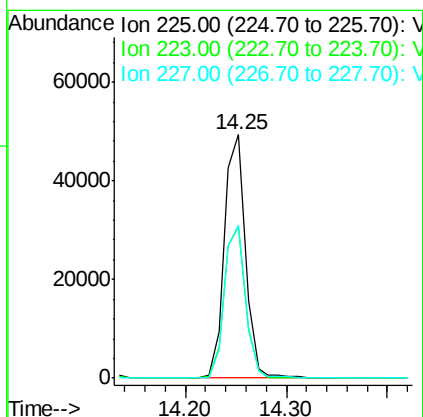
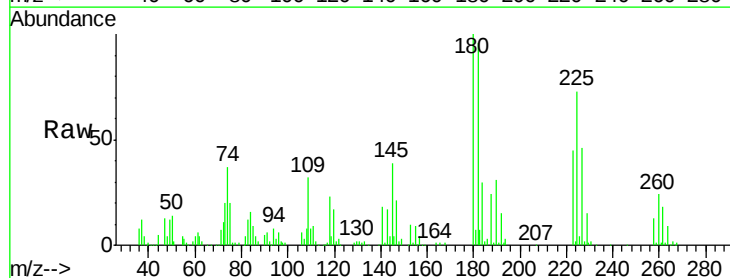
Manual Integrations
 APPROVED

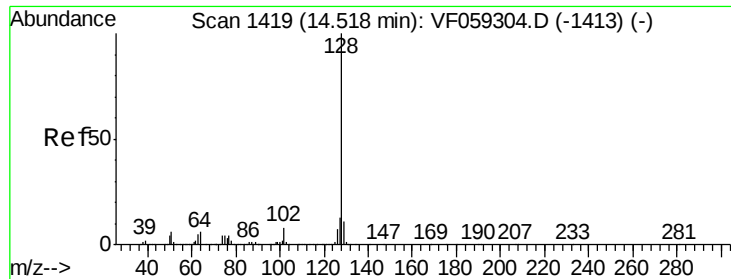
apatel
 7/2/2018 1:11:53 PM



#94
 Hexachlorobutadiene
 Concen: 21.99 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF059379.D
 Acq: 29 Jun 2018 16:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	72003		
223	62.1	28.9	86.8	
227	62.6	31.3	93.8	





#95

Naphthalene

Concen: 20.85 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Instrument :

MSVOA_F

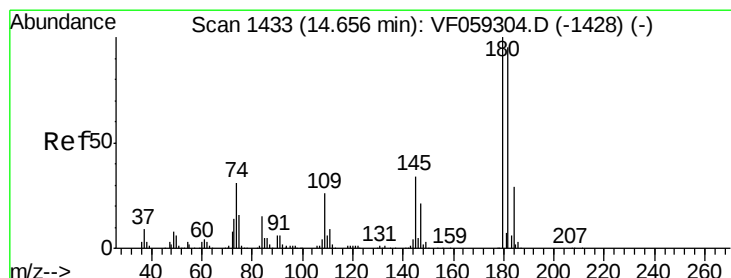
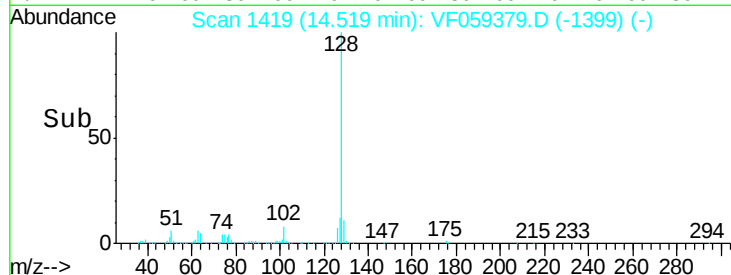
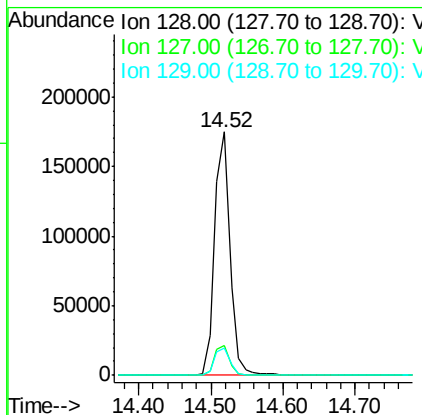
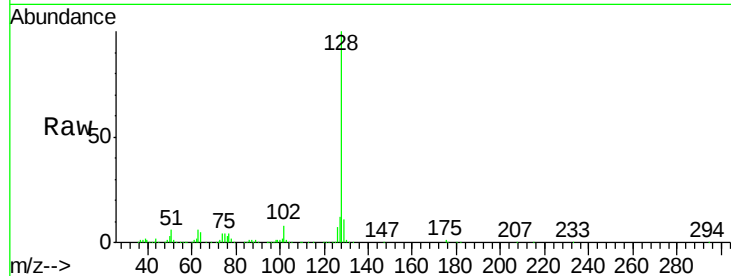
ClientSampleId :

VF0629SBS01

Tot Ion:	128	Resp:	255713
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.1	15.1
129	11.4	8.8	13.2

Manual Integrations
APPROVED

apatel
7/2/2018 1:11:53 PM



#96

1,2,3-Trichlorobenzene

Concen: 21.12 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. 0.00 min

Lab File: VF059379.D

Acq: 29 Jun 2018 16:23

Tgt Ion:	180	Resp:	117272
Ion Ratio	Lower	Upper	
180	100		
182	93.7	47.5	142.5
145	32.9	17.0	50.9

