

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061116.D
 Acq On : 20 Dec 2018 19:07
 Operator : VA/AP
 Sample : J6377-17MS
 Misc : 4.94g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Manual Integrations
 APPROVED

apatel
 12/21/2018 12:23:39 PM

Quant Time: Dec 21 08:09:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	146072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	259332	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.78	117	195419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	70255	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	92783	49.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.78%	
35) Dibromofluoromethane	4.12	113	107274	51.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.28%	
50) Toluene-d8	7.56	98	283575	48.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.34%	
62) 4-Bromofluorobenzene	11.42	95	95616	35.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.46%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	163199	50.260	ug/l	100
3) Chloromethane	1.10	50	117166	62.993	ug/l	96
4) Vinyl Chloride	1.14	62	103065	59.733	ug/l	90
5) Bromomethane	1.34	94	68672	57.381	ug/l	91
6) Chloroethane	1.39	64	49741	62.564	ug/l	95
7) Trichlorofluoromethane	1.50	101	171002	51.905	ug/l	100
8) Diethyl Ether	1.64	74	28973	64.222	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	85026	49.776	ug/l	92
10) Methyl Iodide	1.91	142	147803m	54.893	ug/l	
11) Tert butyl alcohol	2.58	59	23161	305.495	ug/l	98
12) 1,1-Dichloroethene	1.79	96	76704	59.570	ug/l	88
13) Acrolein	2.01	56	8161m	148.969	ug/l	
14) Allyl chloride	2.10	41	76907	57.394	ug/l	87
15) Acrylonitrile	2.95	53	52805	301.204	ug/l	94
16) Acetone	2.25	43	75497	201.014	ug/l	97
17) Carbon Disulfide	1.84	76	223551m	57.450	ug/l	
18) Methyl Acetate	2.36	43	123041m	158.345	ug/l	
19) Methyl tert-butyl Ether	2.44	73	161218	56.408	ug/l	98
20) Methylene Chloride	2.19	84	74880m	63.614	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	79981m	58.076	ug/l	
22) Diisopropyl ether	2.81	45	272975	61.157	ug/l	95
23) Vinyl Acetate	3.19	43	146412	71.104	ug/l #	95
24) 1,1-Dichloroethane	2.88	63	153961	58.217	ug/l	99
25) 2-Butanone	4.35	43	156730	257.306	ug/l	100
26) 2,2-Dichloropropane	3.61	77	83625	55.100	ug/l	95
27) cis-1,2-Dichloroethene	3.48	96	122807	58.248	ug/l	93
28) Bromochloromethane	3.73	49	76155	56.753	ug/l	91
29) Tetrahydrofuran	4.09	42	73056	294.678	ug/l	97
30) Chloroform	3.88	83	207640	52.363	ug/l	96
31) Cyclohexane	3.71	56	133046m	48.482	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	131693	55.408	ug/l	98
36) 1,1-Dichloropropene	4.29	75	146901	46.929	ug/l	99
37) Ethyl Acetate	4.13	43	57597	46.778	ug/l	92
38) Carbon Tetrachloride	4.00	117	109669	46.005	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061116.D
 Acq On : 20 Dec 2018 19:07
 Operator : VA/AP
 Sample : J6377-17MS
 Misc : 4.94g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Manual Integrations
 APPROVED

apatel
 12/21/2018 12:23:39 PM

Quant Time: Dec 21 08:09:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	117217	41.739	ug/l	98
40) Benzene	4.64	78	364183	54.099	ug/l	95
41) Methacrylonitrile	4.76	41	34452	52.114	ug/l	97
42) 1,2-Dichloroethane	4.95	62	118217	46.228	ug/l	99
43) Isopropyl Acetate	6.97	43	58842	38.930	ug/l #	98
44) Trichloroethene	5.51	130	101870	47.999	ug/l	97
45) 1,2-Dichloropropane	6.25	63	99142	54.132	ug/l	98
46) Dibromomethane	6.09	93	57275	48.216	ug/l	97
47) Bromodichloromethane	6.40	83	139172	45.092	ug/l	100
48) Methyl methacrylate	6.73	41	61634	58.411	ug/l	99
49) 1,4-Dioxane	6.73	88	8866	1158.002	ug/l #	81
51) 4-Methyl-2-Pentanone	8.27	43	267637	258.187	ug/l	100
52) Toluene	7.63	92	211973	47.569	ug/l	99
53) t-1,3-Dichloropropene	8.29	75	100309	40.287	ug/l	98
54) cis-1,3-Dichloropropene	7.32	75	139807	44.739	ug/l	93
55) 1,1,2-Trichloroethane	8.50	97	65864	49.304	ug/l	94
56) Ethyl methacrylate	8.63	69	57339	39.667	ug/l	96
57) 1,3-Dichloropropane	8.87	76	116296	48.134	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.31	63	53196	191.614	ug/l	91
59) 2-Hexanone	9.51	43	176046	234.839	ug/l	98
60) Dibromochloromethane	8.73	129	79834	41.691	ug/l	95
61) 1,2-Dibromoethane	8.99	107	64492	45.204	ug/l	94
64) Tetrachloroethene	8.17	164	69367	46.144	ug/l	96
65) Chlorobenzene	9.81	112	204901	50.755	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	82386	49.937	ug/l	93
67) Ethyl Benzene	9.91	91	366540	49.837	ug/l	99
68) m/p-Xylenes	10.14	106	254188	98.205	ug/l	94
69) o-Xylene	10.72	106	139286	48.521	ug/l	95
70) Styrene	10.80	104	164355	46.659	ug/l	97
71) Bromoform	10.78	173	35375	46.347	ug/l #	99
73) Isopropylbenzene	11.14	105	367780	60.747	ug/l	97
74) N-amyl acetate	11.38	43	65272	48.560	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.71	83	71875	71.531	ug/l	93
76) 1,2,3-Trichloropropane	11.81	75	58434	78.144	ug/l	99
77) Bromobenzene	11.50	156	77039	59.112	ug/l	96
78) n-propylbenzene	11.60	91	402755	60.378	ug/l	99
79) 2-Chlorotoluene	11.73	91	230314	55.454	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	299061	59.990	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.88	75	22677m	70.573	ug/l	
82) 4-Chlorotoluene	11.90	91	232921	54.213	ug/l	100
83) tert-Butylbenzene	12.14	119	303538	59.170	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	270788	54.470	ug/l	98
85) sec-Butylbenzene	12.31	105	354506	52.954	ug/l	97
86) p-Isopropyltoluene	12.47	119	292199	52.584	ug/l	97
87) 1,3-Dichlorobenzene	12.49	146	118075	56.180	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	119423	49.902	ug/l	99
89) n-Butylbenzene	12.85	91	247162	42.546	ug/l	95
90) Hexachloroethane	12.92	117	67563	49.212	ug/l	96
91) 1,2-Dichlorobenzene	12.95	146	107772	46.256	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	11390	61.773	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
Data File : VF061116.D
Acq On : 20 Dec 2018 19:07
Operator : VA/AP
Sample : J6377-17MS
Misc : 4.94u/5mL/MSVOA-F/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

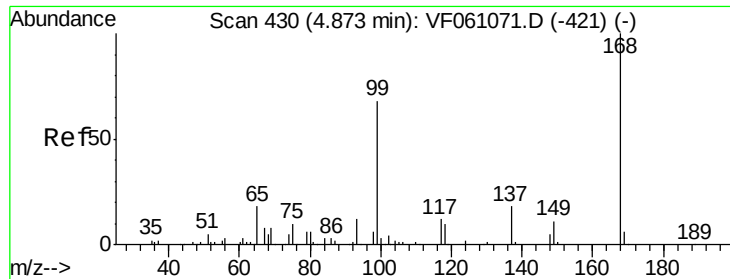
Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM

Quant Time: Dec 21 08:09:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	51869	31.391	ug/l	99
94) Hexachlorobutadiene	14.19	225	31285	29.727	ug/l	95
95) Naphthalene	14.46	128	106264	35.219	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	42288	27.684	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:168 Resp: 146072

Ion Ratio Lower Upper

168 100

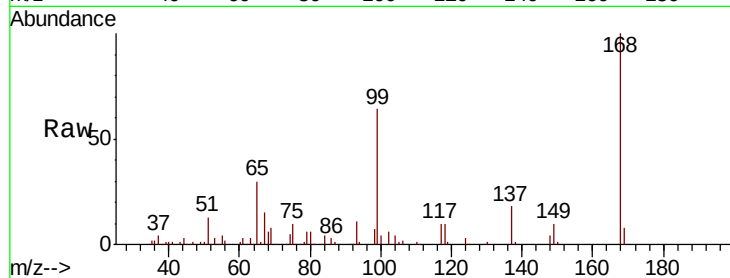
99 63.8 54.4 81.6

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

50000

40000

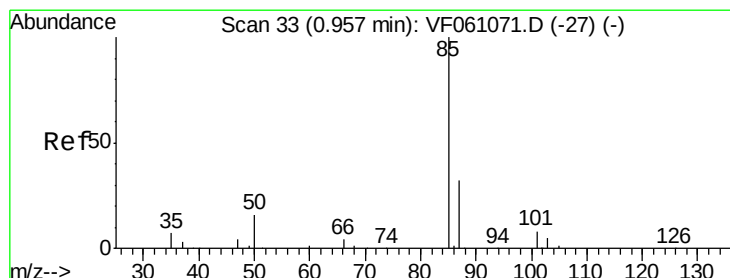
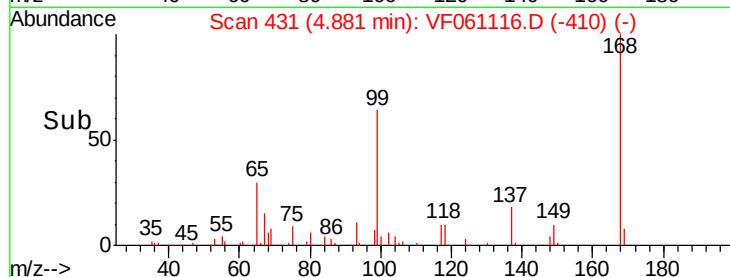
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 50.260 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061116.D

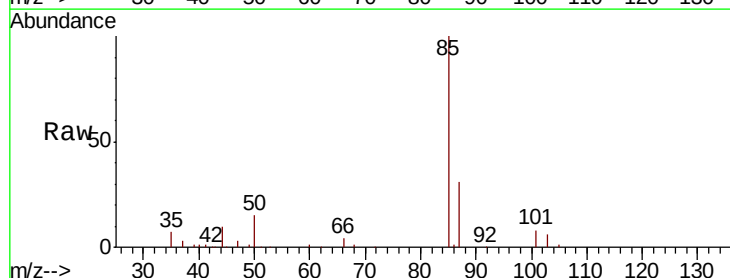
Acq: 20 Dec 2018 19:07

Tgt Ion: 85 Resp: 163199

Ion Ratio Lower Upper

85 100

87 31.5 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

50000

40000

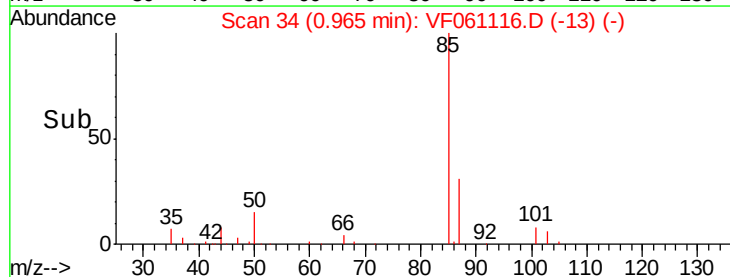
30000

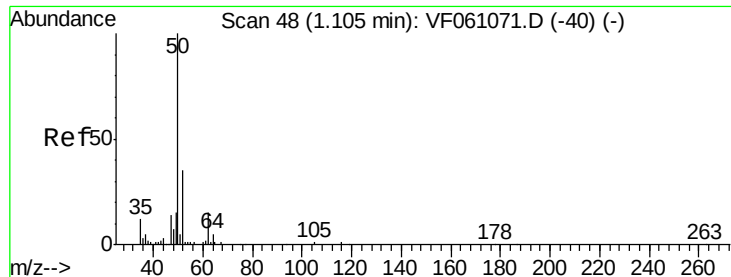
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 62.993 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 50 Resp: 117166

Ion Ratio Lower Upper

50 100

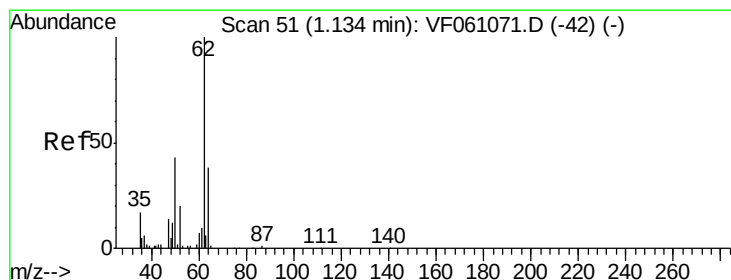
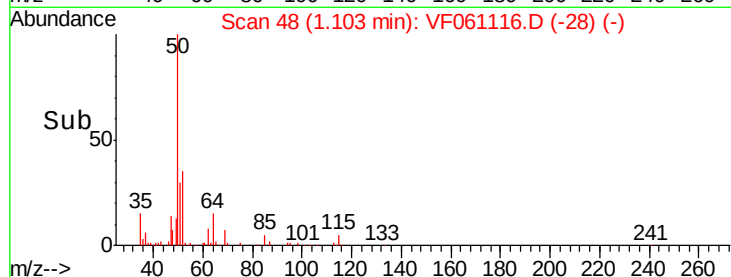
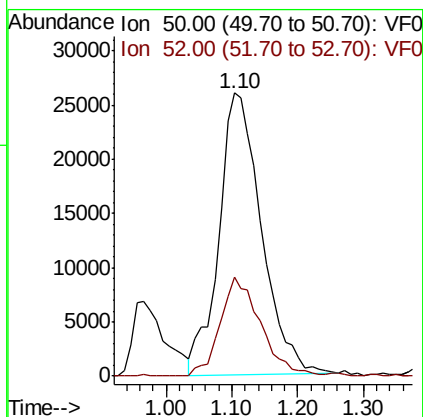
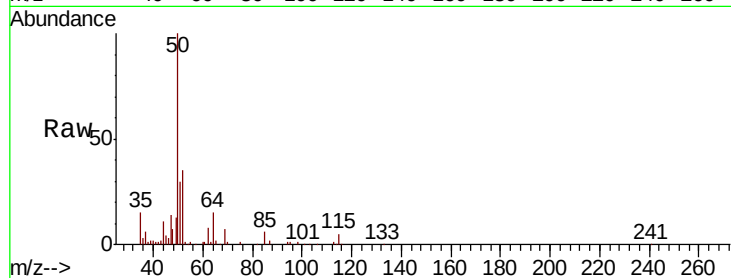
52 35.0 26.3 39.5

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#4

Vinyl Chloride

Concen: 59.733 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061116.D

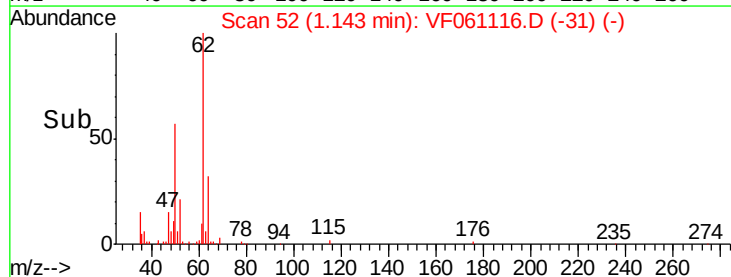
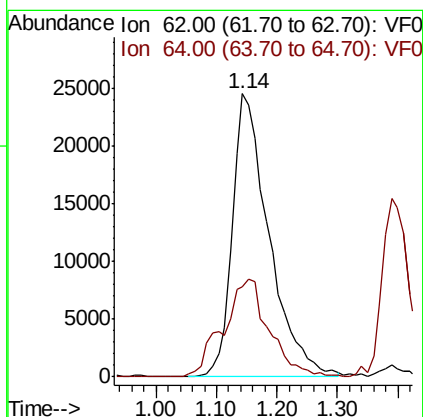
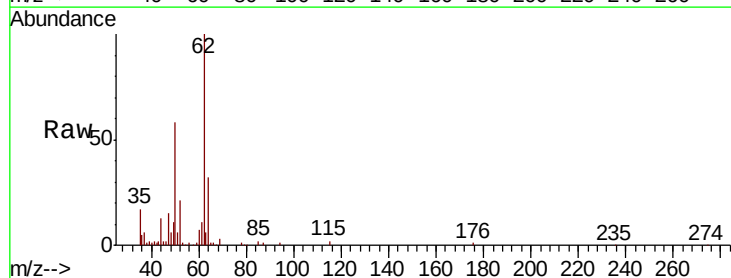
Acq: 20 Dec 2018 19:07

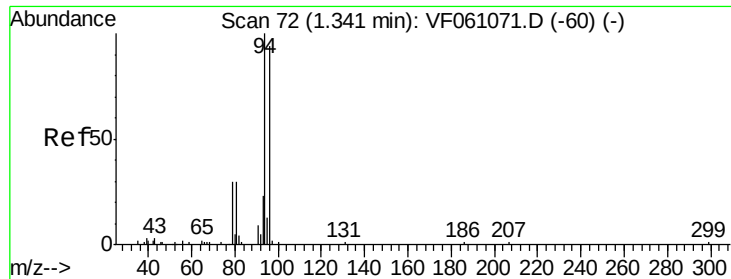
Tgt Ion: 62 Resp: 103065

Ion Ratio Lower Upper

62 100

64 31.9 30.4 45.6





#5

Bromomethane

Concen: 57.381 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 94 Resp: 68672

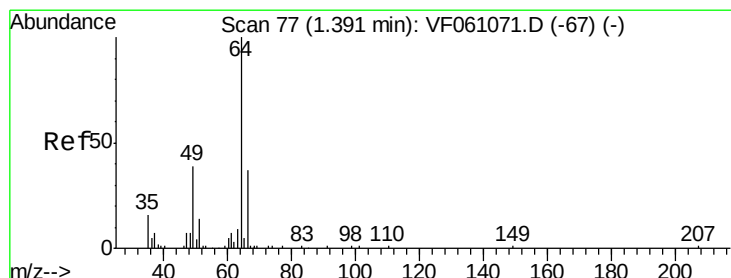
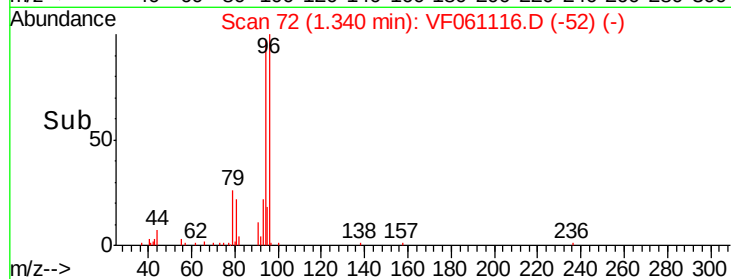
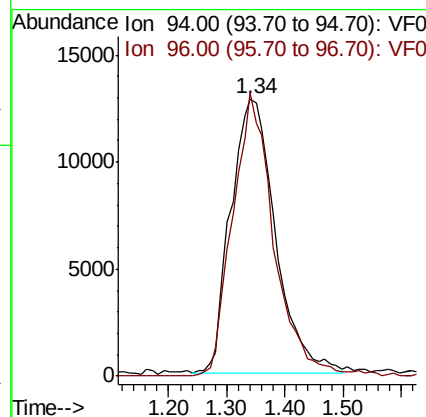
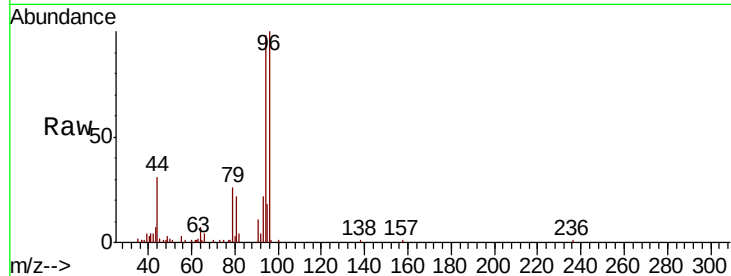
Ion Ratio Lower Upper

94 100

96 102.0 74.4 111.6

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#6

Chloroethane

Concen: 62.564 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061116.D

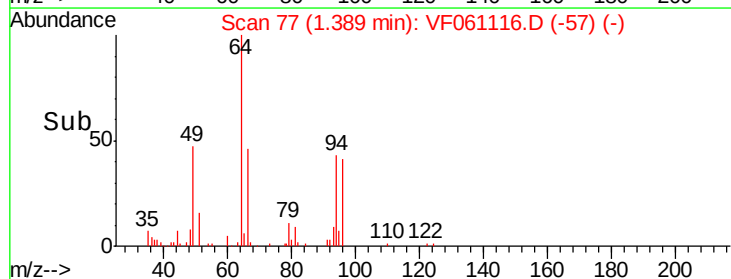
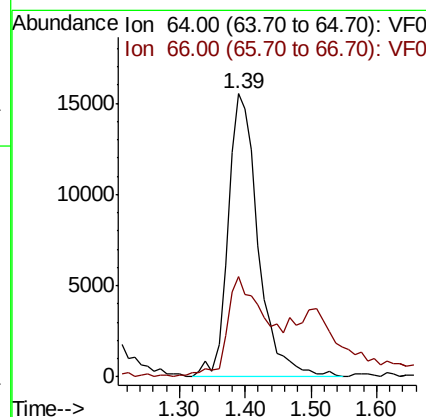
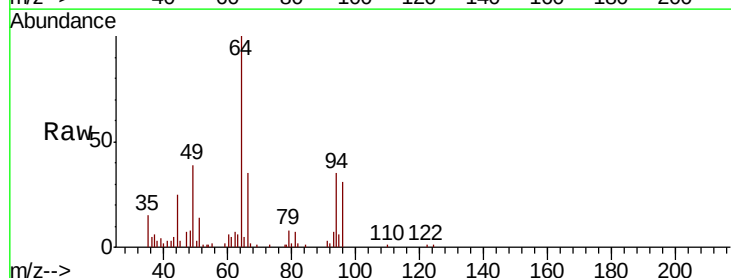
Acq: 20 Dec 2018 19:07

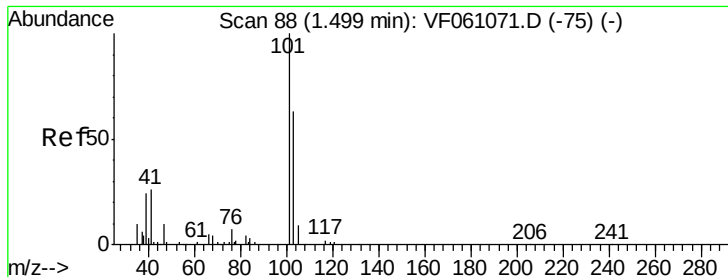
Tgt Ion: 64 Resp: 49741

Ion Ratio Lower Upper

64 100

66 35.4 30.9 46.3





#7

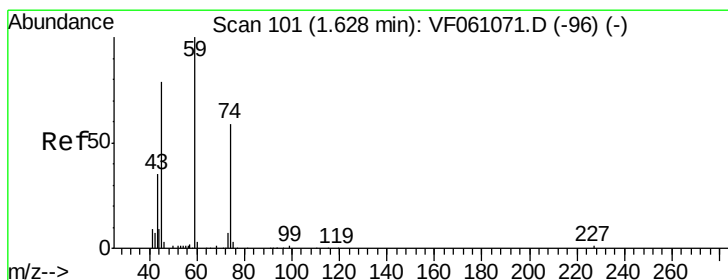
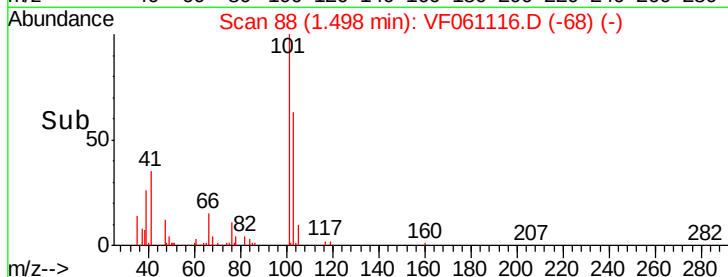
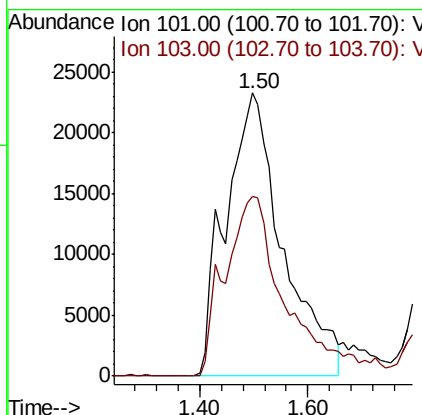
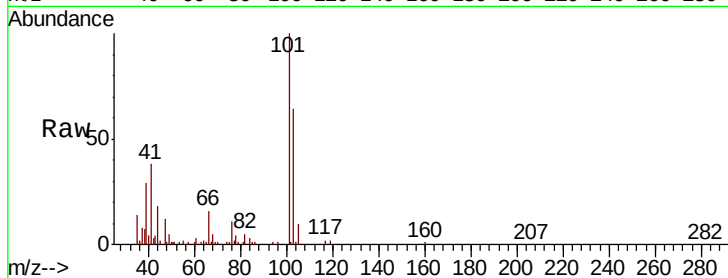
Trichlorofluoromethane
Concen: 51.905 ug/l
RT: 1.50 min Scan# 88
Delta R.T. -0.00 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion:101 Resp: 171002
Ion Ratio Lower Upper
101 100
103 63.5 50.7 76.1

Manual Integrations
APPROVED

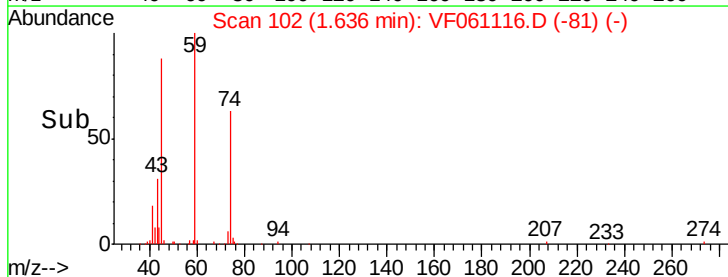
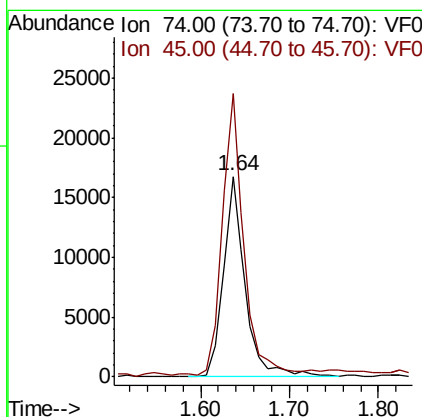
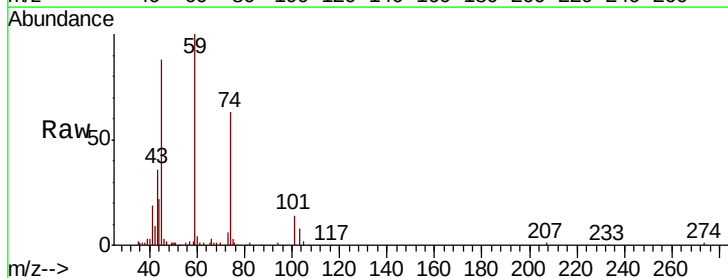
apatel
12/21/2018 12:23:39 PM

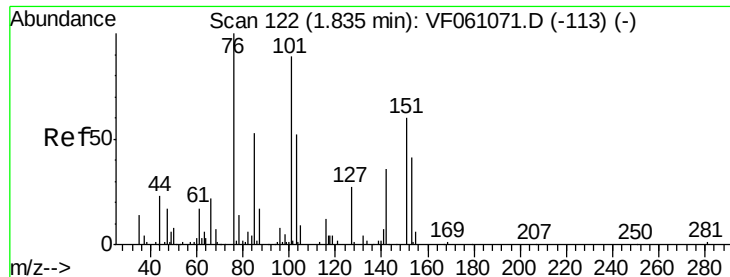


#8

Diethyl Ether
Concen: 64.222 ug/l
RT: 1.64 min Scan# 102
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion: 74 Resp: 28973
Ion Ratio Lower Upper
74 100
45 141.0 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.776 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

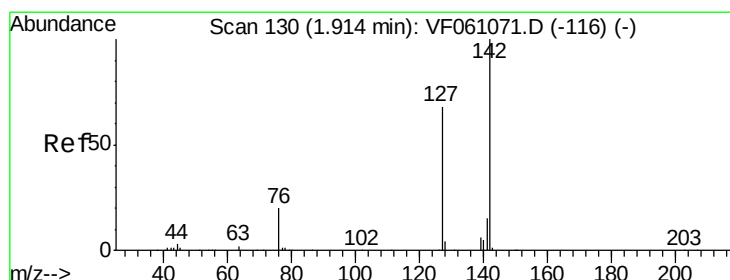
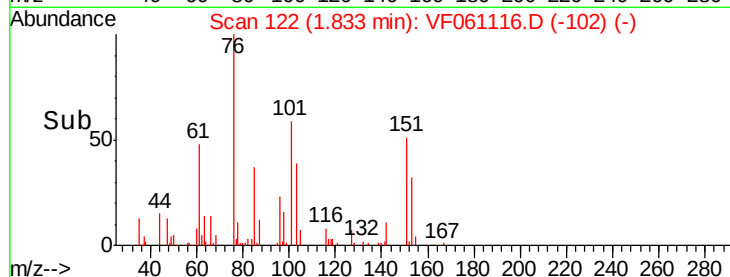
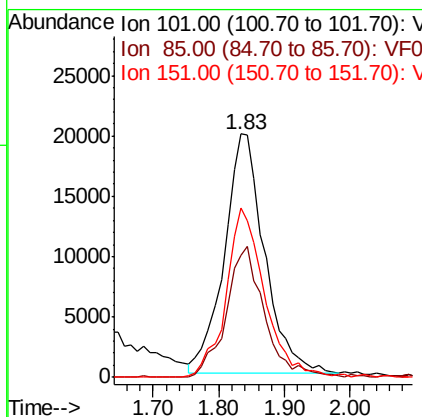
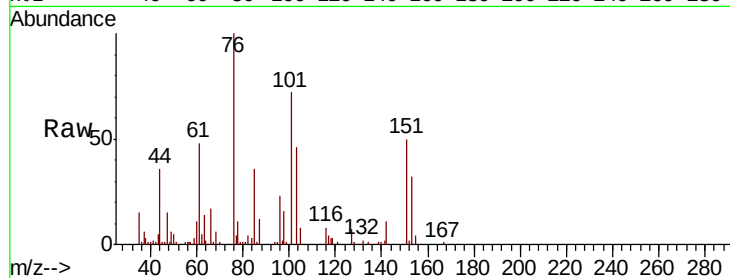
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	101	Resp:	85026
Ion Ratio	Lower	Upper	
101	100		
85	50.3	44.5	66.7
151	69.6	49.9	74.9

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#10

Methyl Iodide

Concen: 54.893 ug/l m

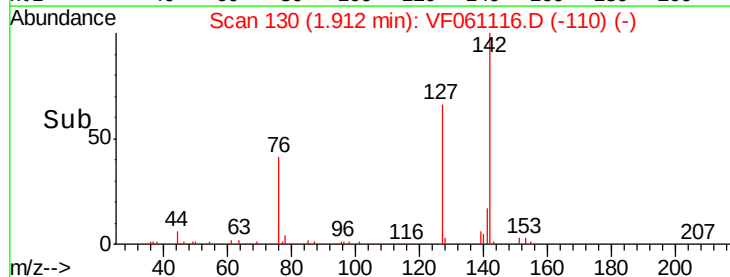
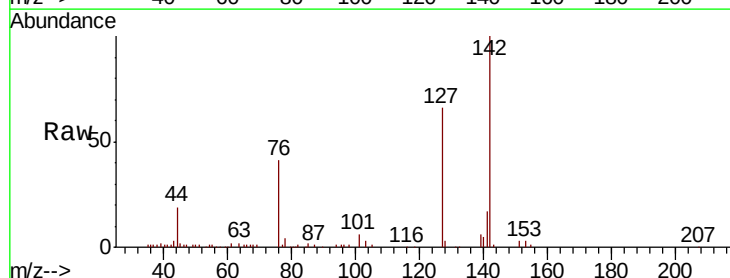
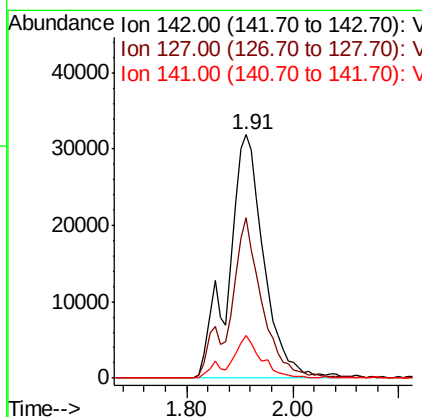
RT: 1.91 min Scan# 130

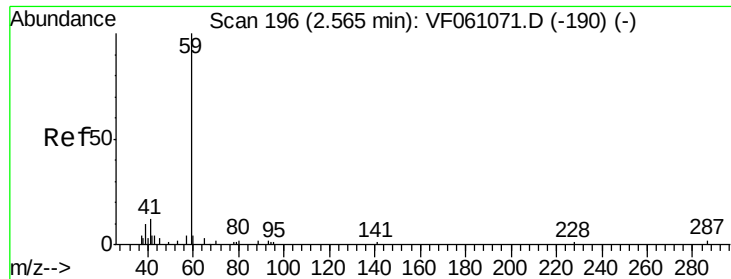
Delta R.T. -0.00 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	142	Resp:	147803
Ion Ratio	Lower	Upper	
142	100		
127	65.8	54.7	82.1
141	17.5	12.2	18.2





#11

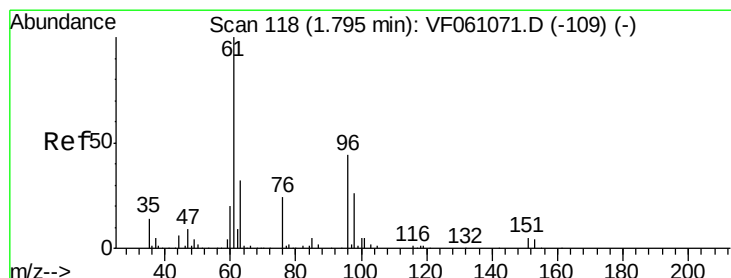
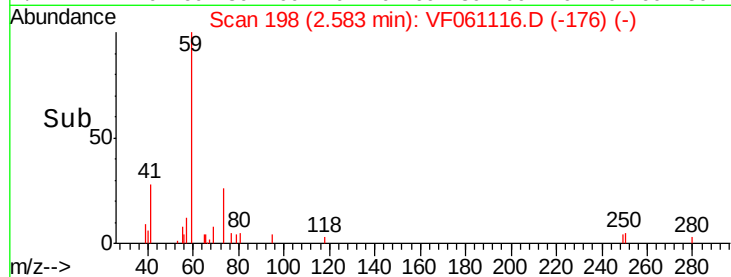
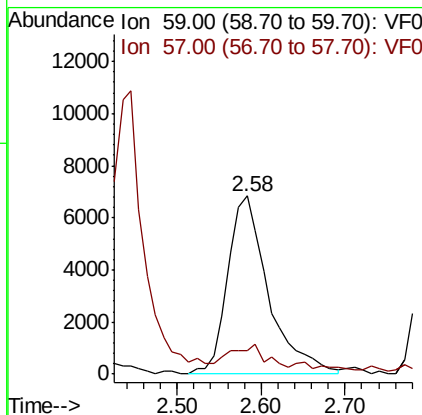
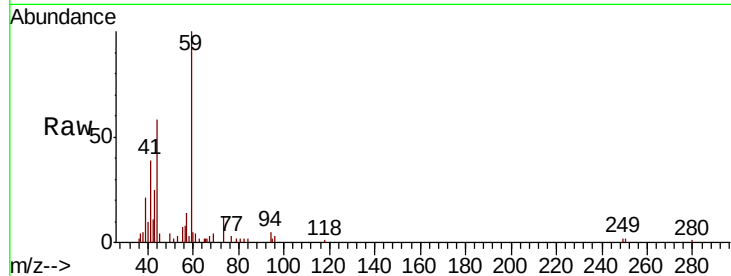
Tert butyl alcohol
Concen: 305.495 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.5	11.5	17.3

Manual Integrations
APPROVED

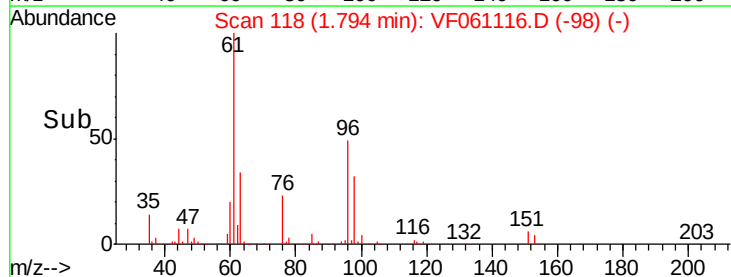
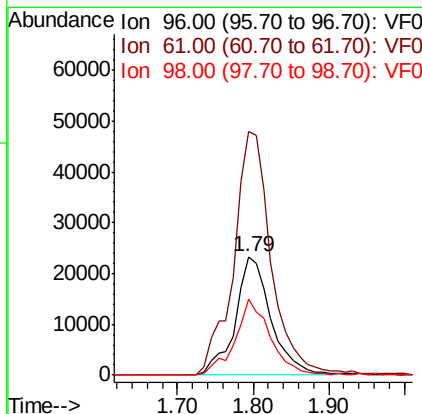
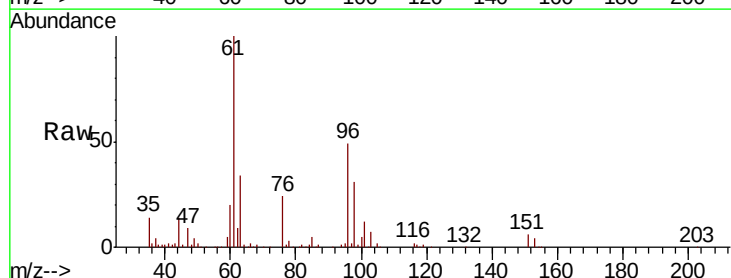
apatel
12/21/2018 12:23:39 PM

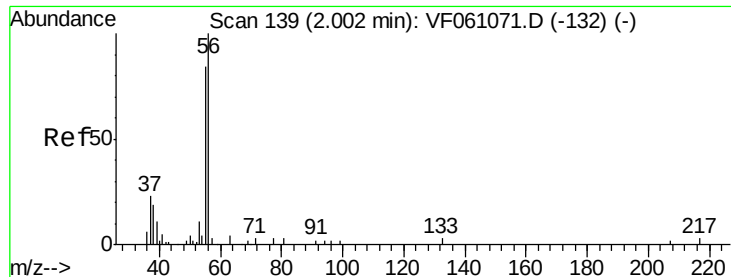


#12

1,1-Dichloroethene
Concen: 59.570 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	205.7	182.0	273.0
98	64.7	46.5	69.7





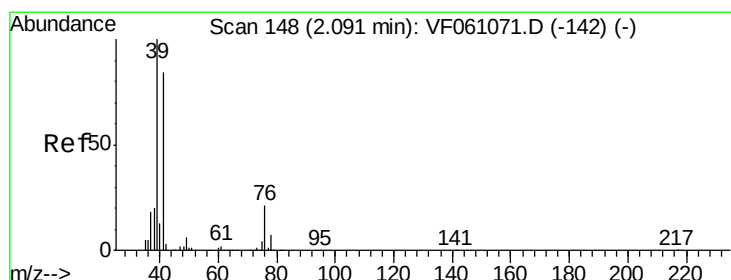
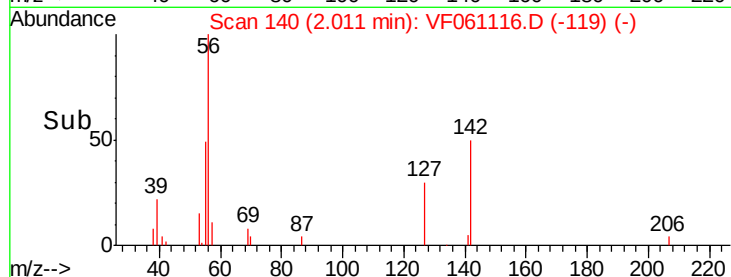
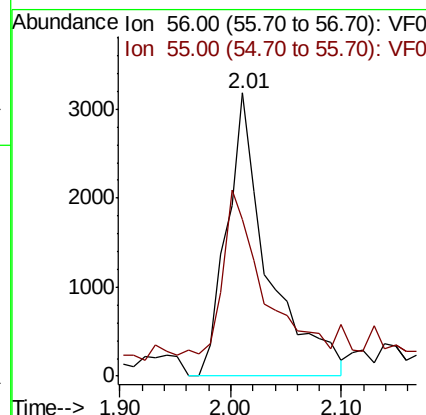
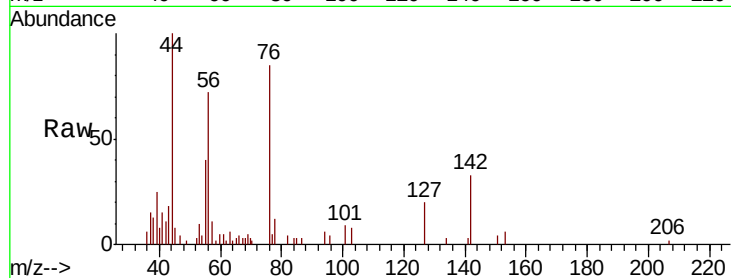
#13
Acrolein
Concen: 148.969 ug/l m
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion: 56 Resp: 8161
Ion Ratio Lower Upper
56 100
55 55.5 70.2 105.2#

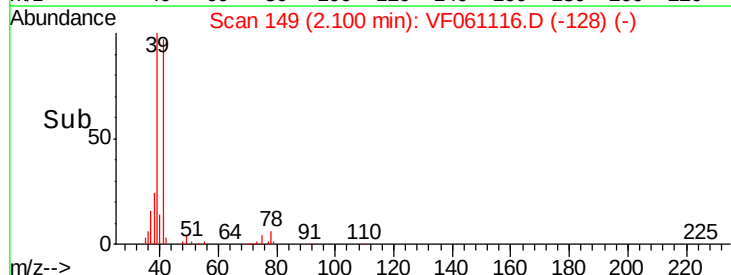
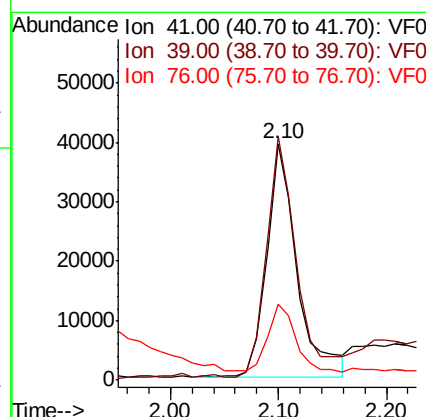
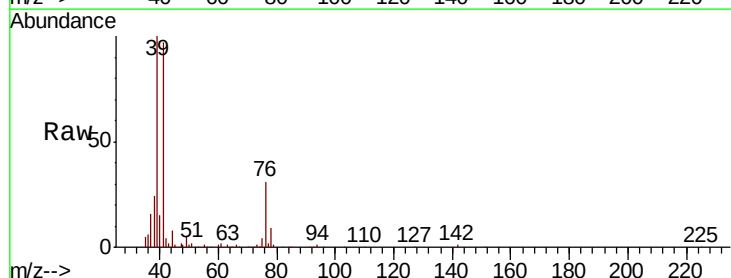
Manual Integrations
APPROVED

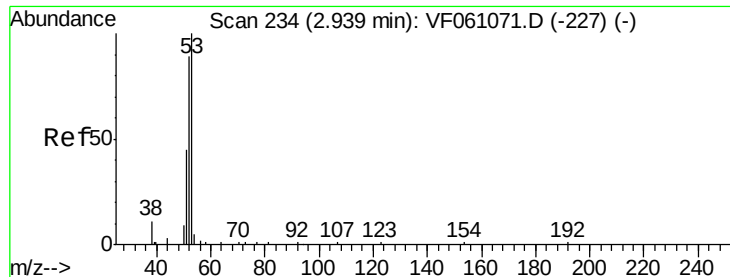
apatel
12/21/2018 12:23:39 PM



#14
Allyl chloride
Concen: 57.394 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion: 41 Resp: 76907
Ion Ratio Lower Upper
41 100
39 103.1 96.4 144.6
76 32.3 25.4 38.0





#15

Acrylonitrile

Concen: 301.204 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

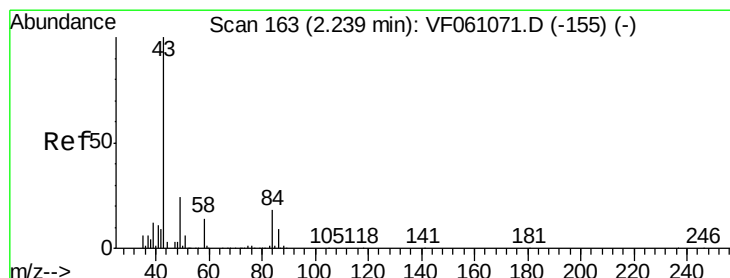
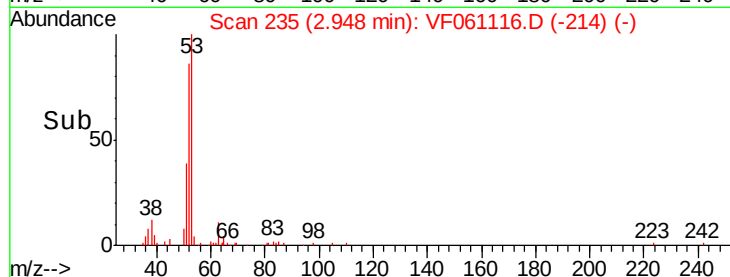
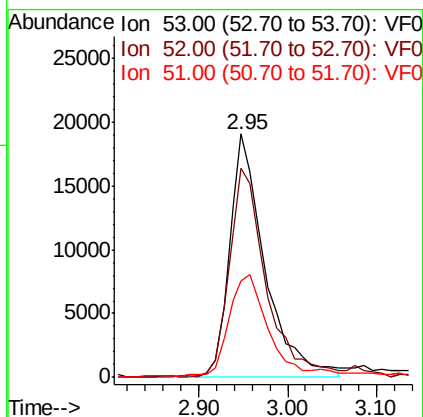
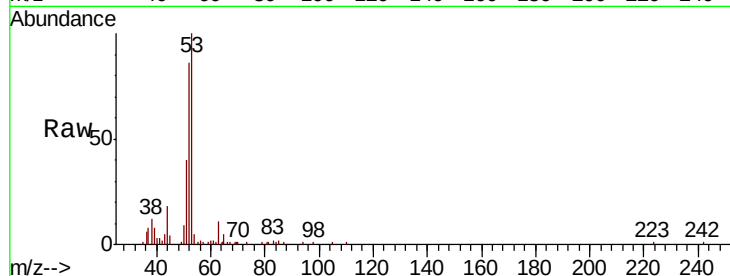
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	53	Resp:	52805
Ion	Ratio	Lower	Upper
53	100		
52	85.6	71.3	106.9
51	39.7	36.8	55.2

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#16

Acetone

Concen: 201.014 ug/l

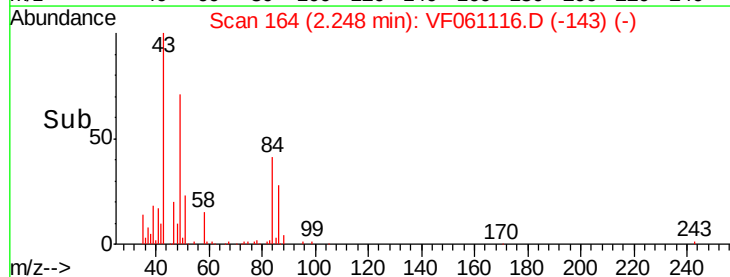
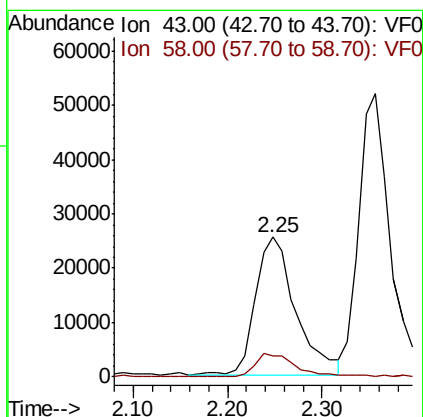
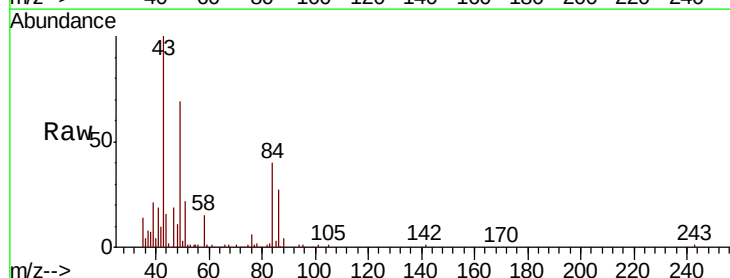
RT: 2.25 min Scan# 164

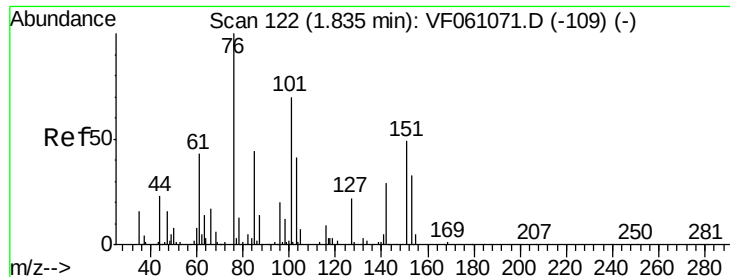
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	43	Resp:	75497
Ion	Ratio	Lower	Upper
43	100		
58	15.2	11.1	16.7





#17

Carbon Disulfide

Concen: 57.450 ug/l m

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tot Ion: 76 Resp: 223551

Ion Ratio Lower Upper

76 100

78 13.1 10.2 15.4

Instrument :

MSVOA_F

ClientSampleId :

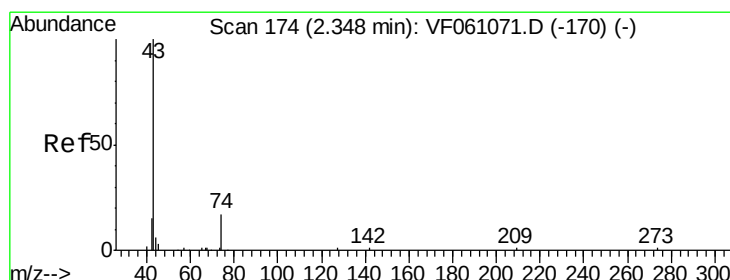
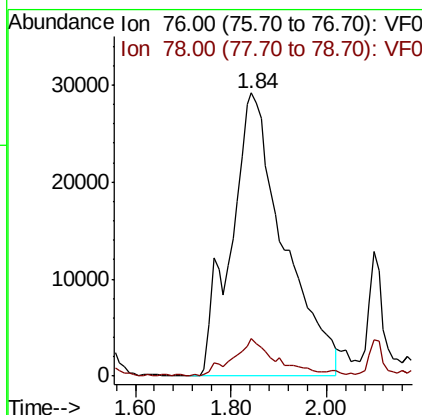
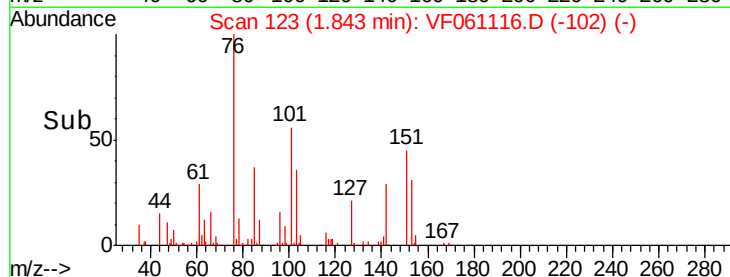
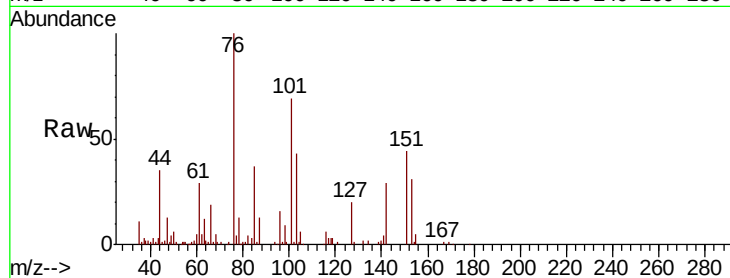
P001-SD006-0612-01MS

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#18

Methyl Acetate

Concen: 158.345 ug/l m

RT: 2.36 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF061116.D

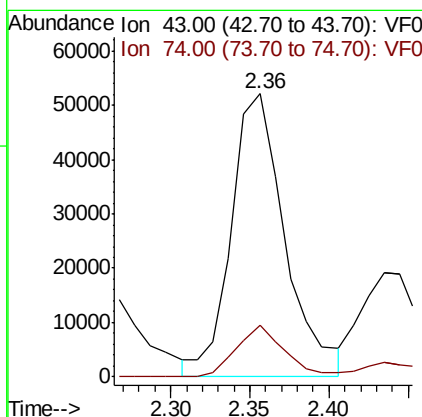
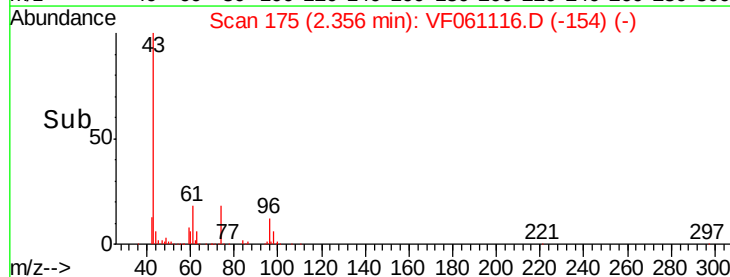
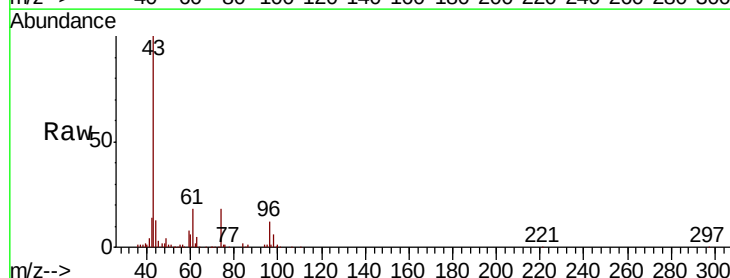
Acq: 20 Dec 2018 19:07

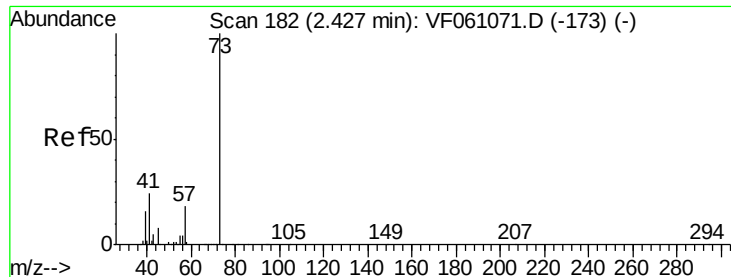
Tgt Ion: 43 Resp: 123041

Ion Ratio Lower Upper

43 100

74 18.1 11.0 16.6#





#19

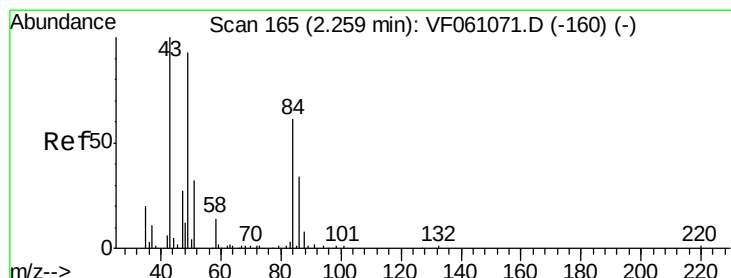
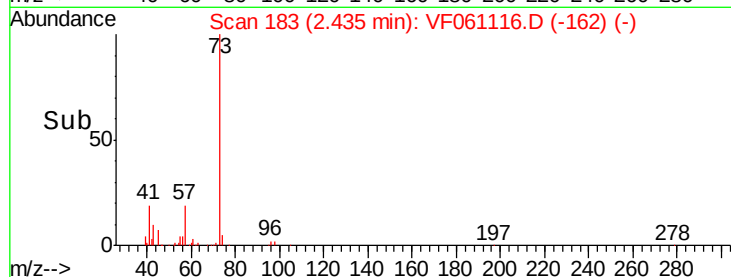
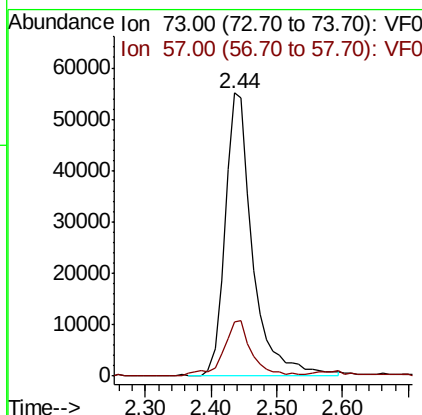
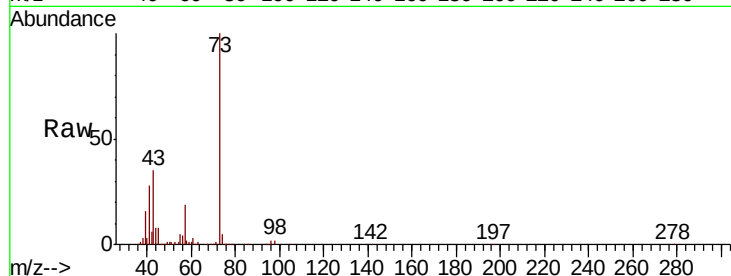
Methyl tert-butyl Ether
 Concen: 56.408 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.2	14.5	21.7

Manual Integrations
 APPROVED

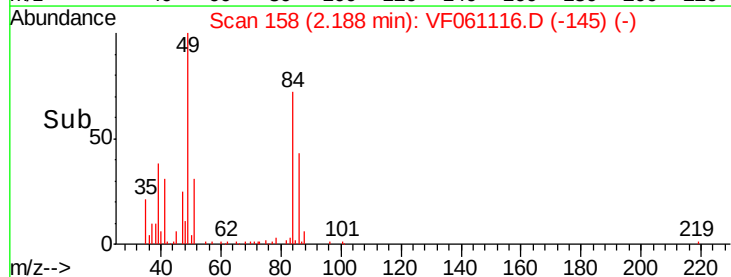
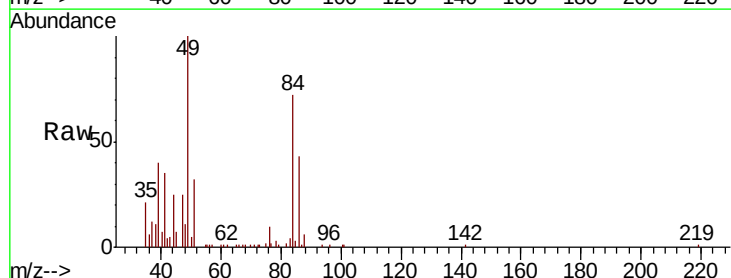
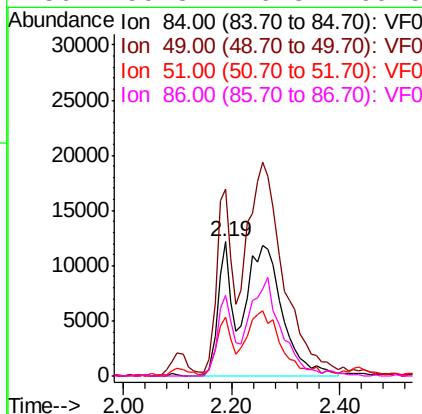
apatel
 12/21/2018 12:23:39 PM

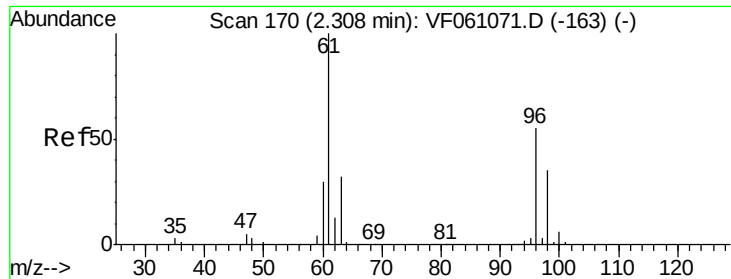


#20

Methylene Chloride
 Concen: 63.614 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.07 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.8	129.4	194.2
51	44.1	44.0	66.0
86	59.8	46.3	69.5





#21

trans-1,2-Dichloroethene

Concen: 58.076 ug/l m

RT: 2.32 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

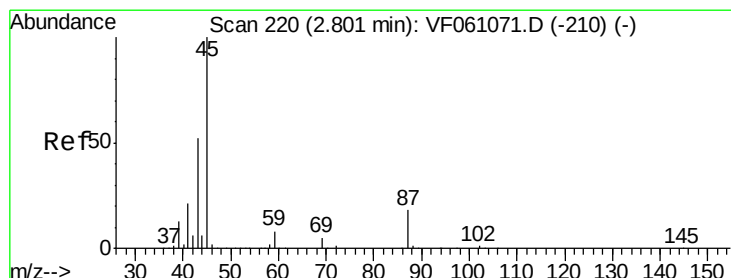
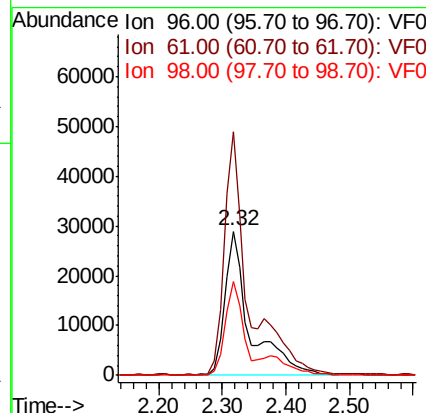
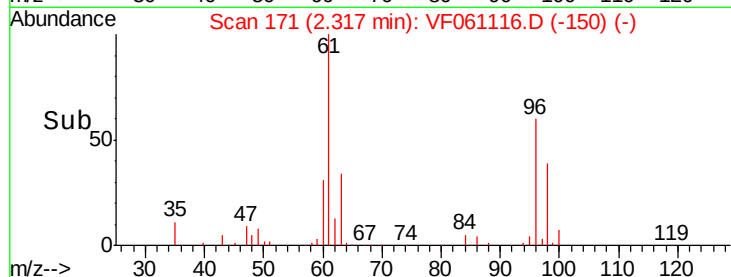
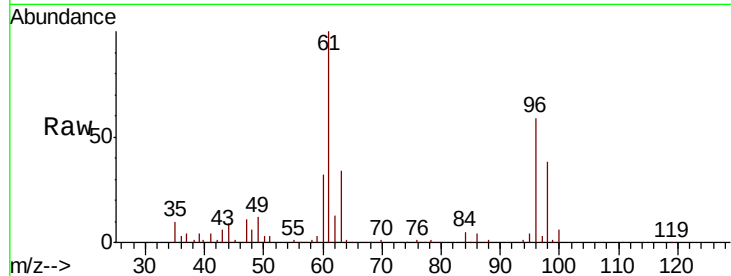
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	96	Resp:	79981
Ion	Ratio	Lower	Upper
96	100		
61	168.7	146.0	219.0
98	64.6	51.6	77.4

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#22

Diisopropyl ether

Concen: 61.157 ug/l

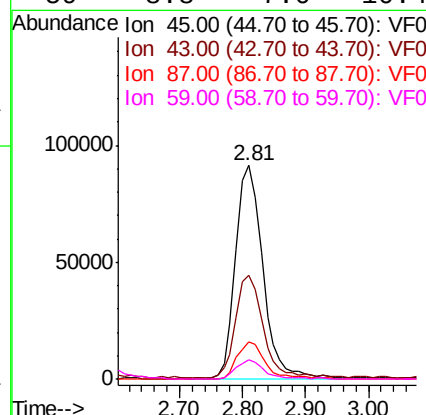
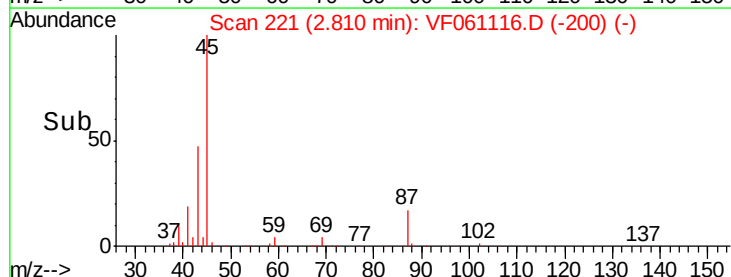
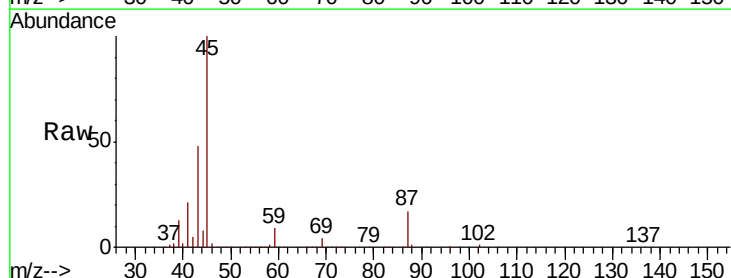
RT: 2.81 min Scan# 221

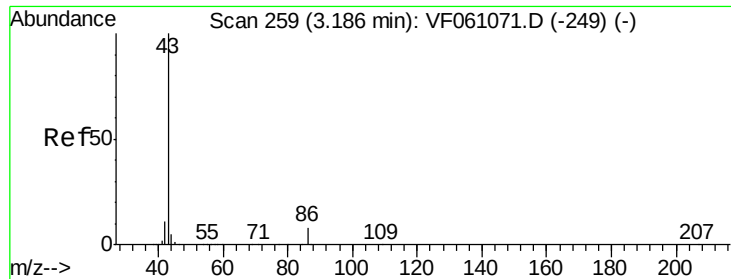
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	45	Resp:	272975
Ion	Ratio	Lower	Upper
45	100		
43	48.3	42.2	63.2
87	17.3	14.6	22.0
59	8.8	7.0	10.4





#23

Vinyl Acetate

Concen: 71.104 ug/l

RT: 3.19 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 43 Resp: 146412

Ion Ratio Lower Upper

43 100

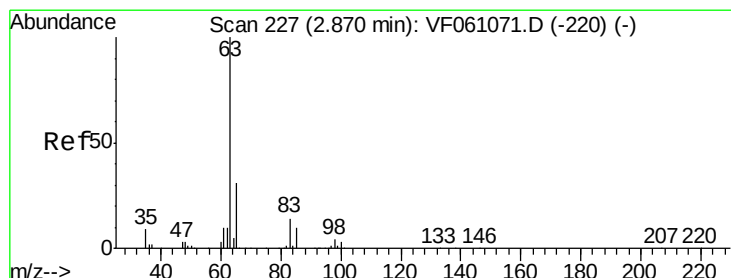
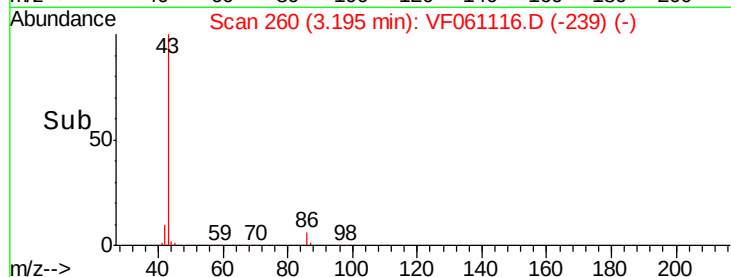
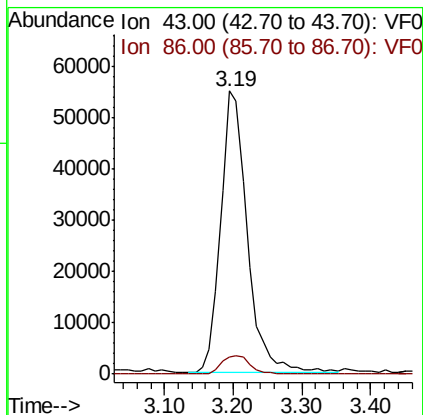
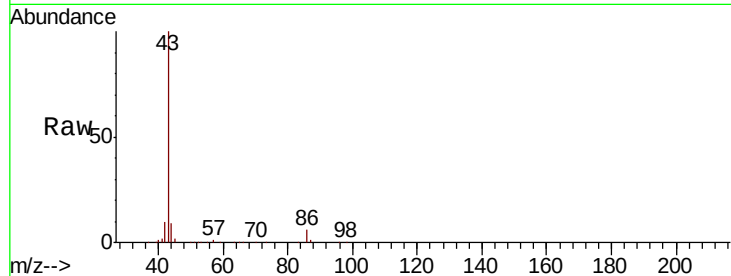
86 6.2 6.3 9.5#

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#24

1,1-Dichloroethane

Concen: 58.217 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

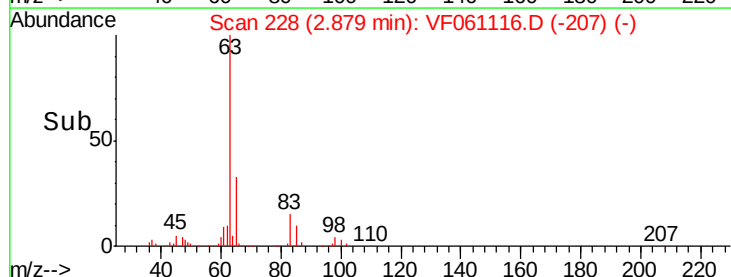
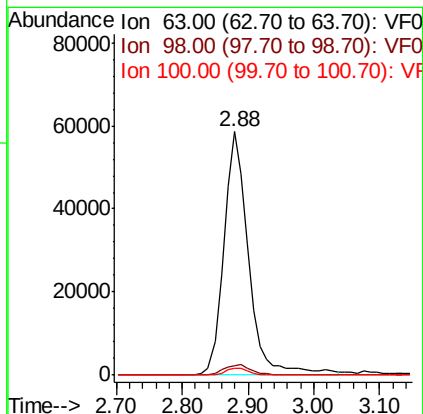
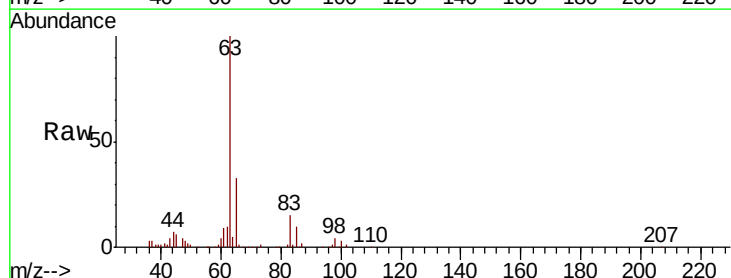
Tgt Ion: 63 Resp: 153961

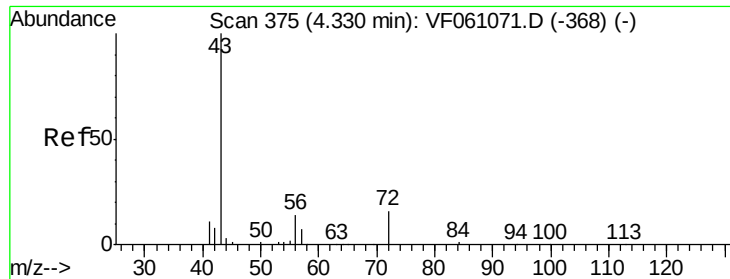
Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.5

100 3.0 1.7 5.1





#25

2-Butanone

Concen: 257.306 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 43 Resp: 156730

Ion Ratio Lower Upper

43 100

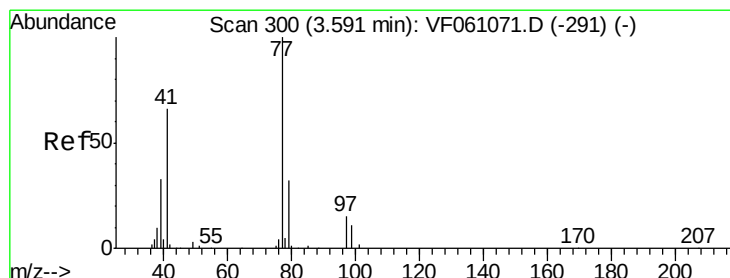
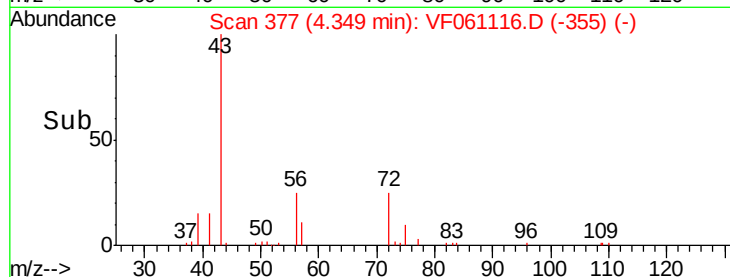
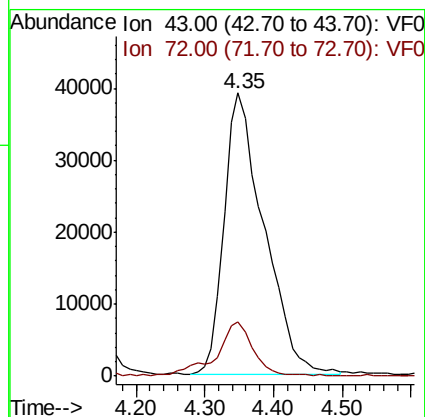
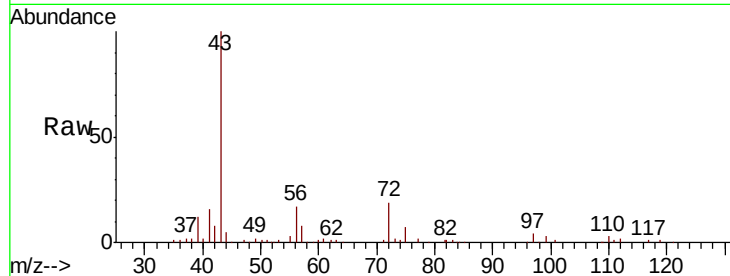
72 19.3 15.6 23.4

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#26

2,2-Dichloropropane

Concen: 55.100 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.02 min

Lab File: VF061116.D

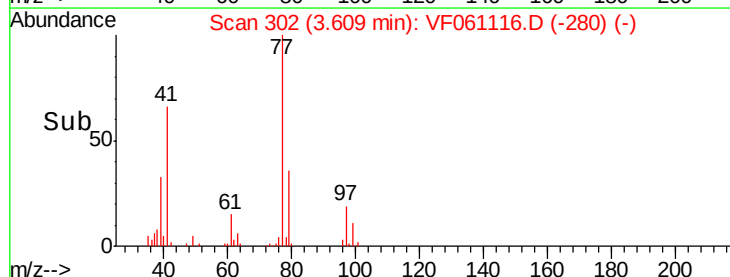
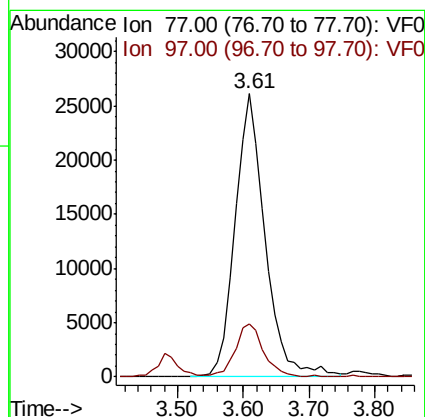
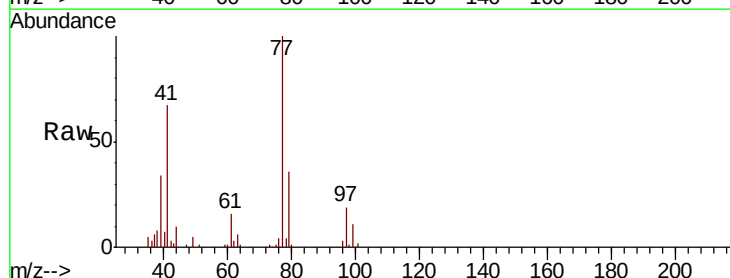
Acq: 20 Dec 2018 19:07

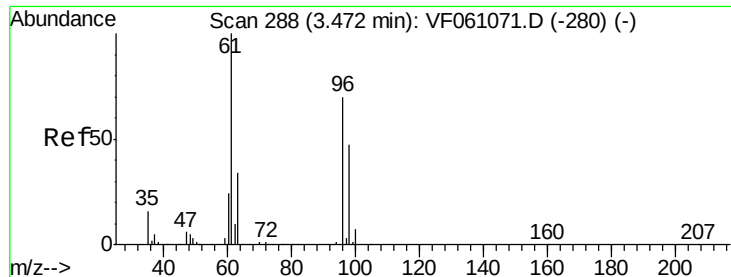
Tgt Ion: 77 Resp: 83625

Ion Ratio Lower Upper

77 100

97 18.6 8.2 24.4





#27

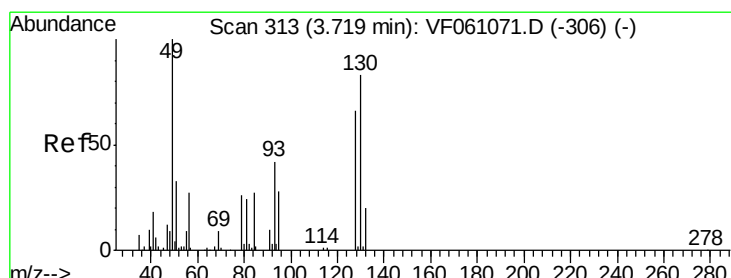
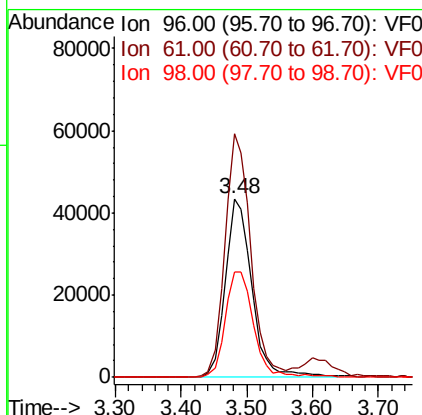
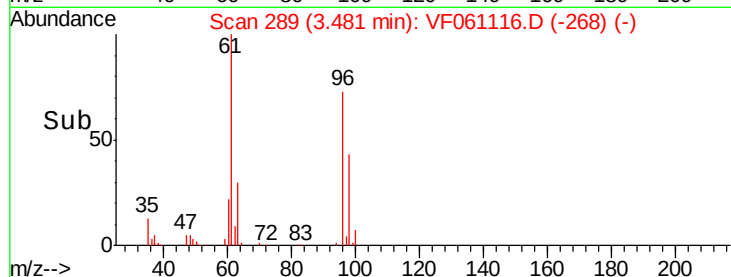
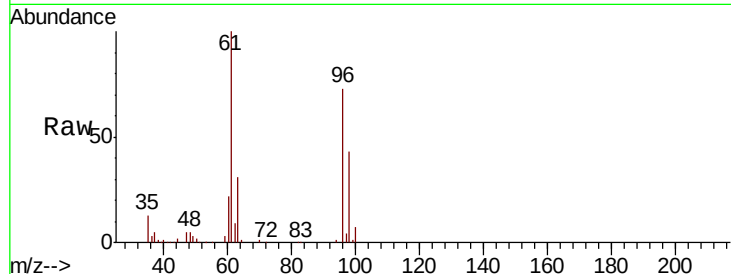
cis-1,2-Dichloroethene
 Concen: 58.248 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	136.5	0.0	287.8	
98	59.0	0.0	134.2	

Manual Integrations
 APPROVED

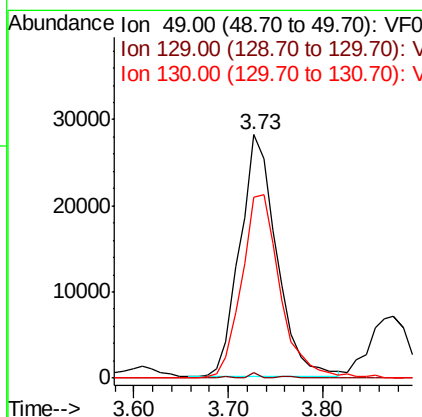
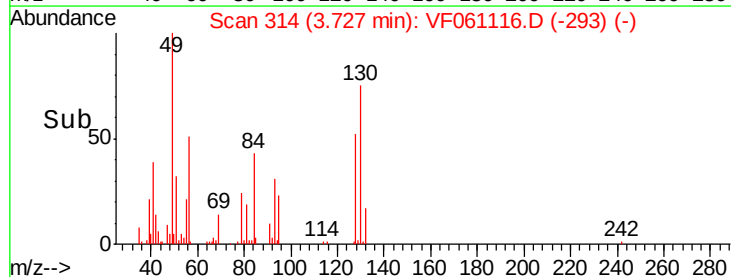
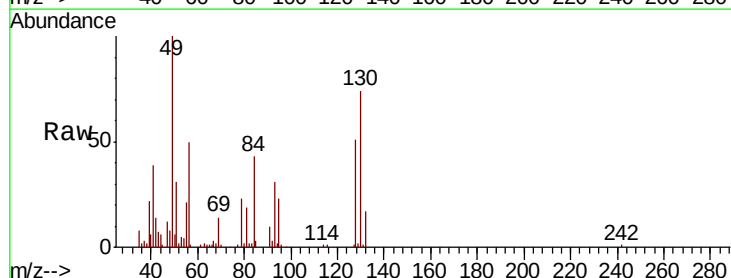
apatel
 12/21/2018 12:23:39 PM

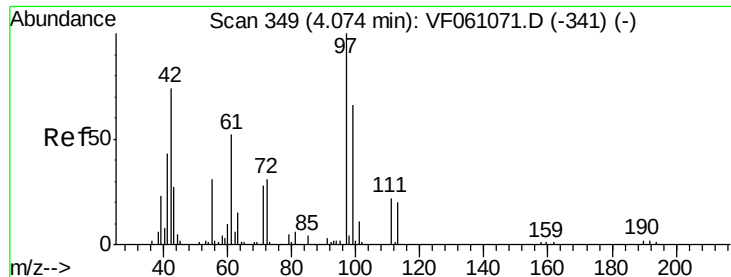


#28

Bromochloromethane
 Concen: 56.753 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.3	0.0	3.6	
130	74.4	65.8	98.6	





#29

Tetrahydrofuran

Concen: 294.678 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

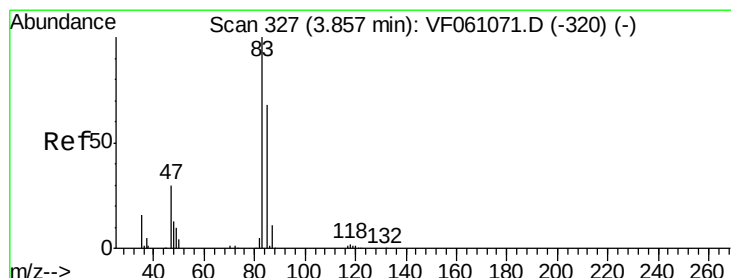
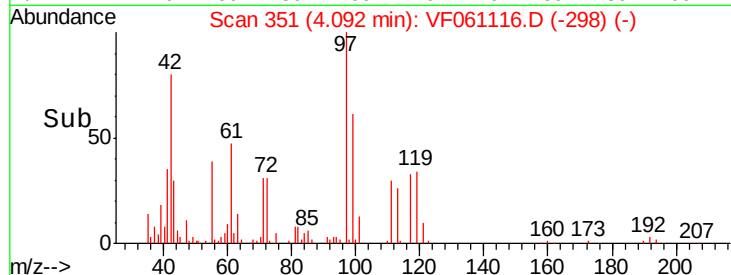
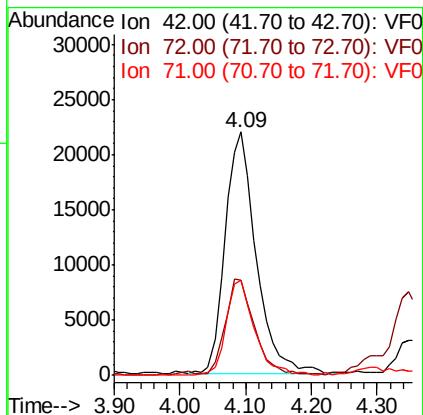
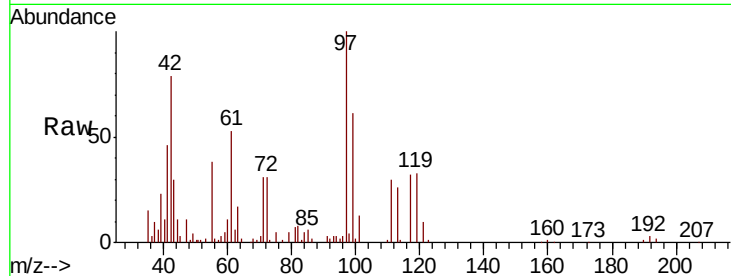
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	42	Resp:	73056
Ion	Ratio	Lower	Upper
42	100		
72	37.4	31.8	47.8
71	35.8	29.7	44.5

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#30

Chloroform

Concen: 52.363 ug/l

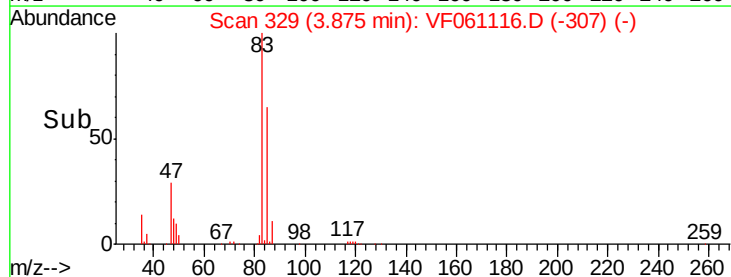
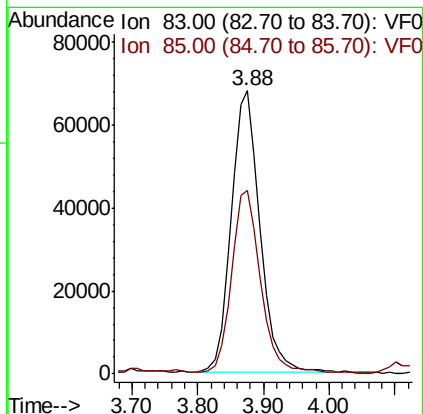
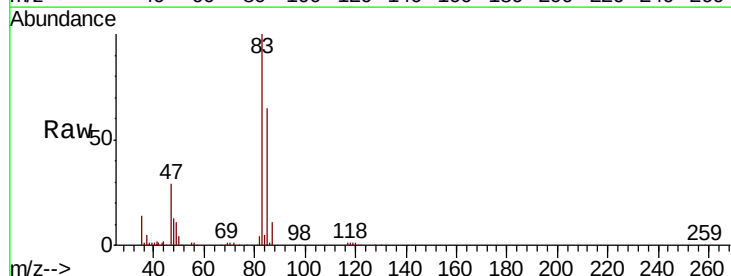
RT: 3.88 min Scan# 329

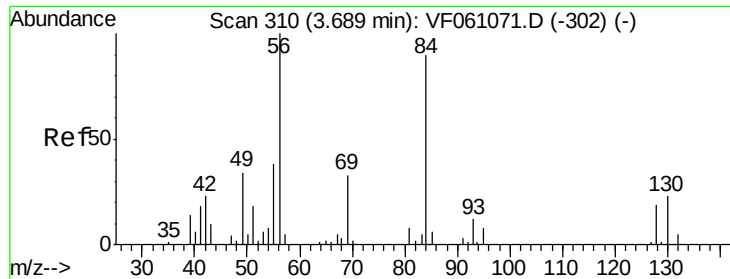
Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	83	Resp:	207640
Ion	Ratio	Lower	Upper
83	100		
85	64.8	54.5	81.7





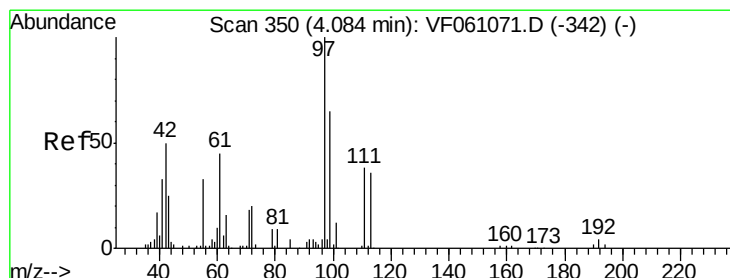
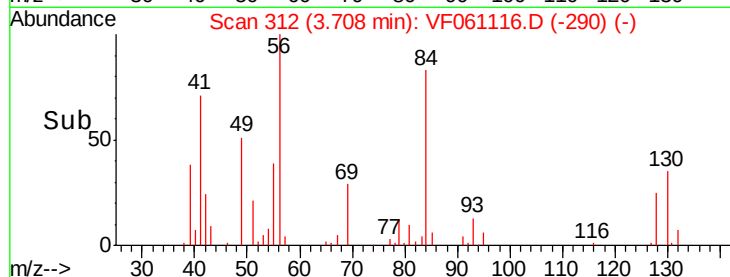
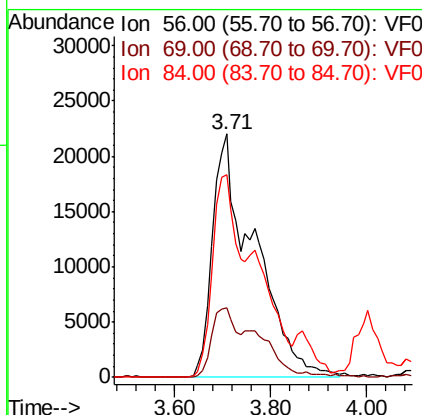
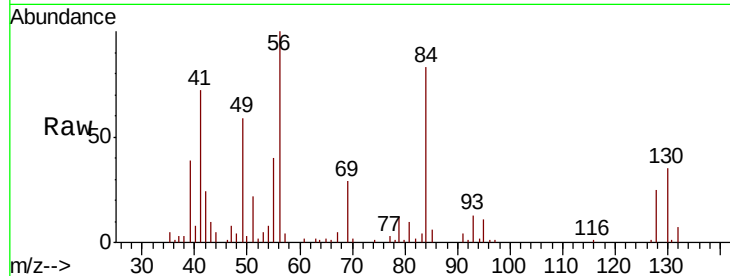
#31
Cyclohexane
Concen: 48.482 ug/l m
RT: 3.71 min Scan# 312
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.5	26.0	39.0
84	83.3	71.4	107.2

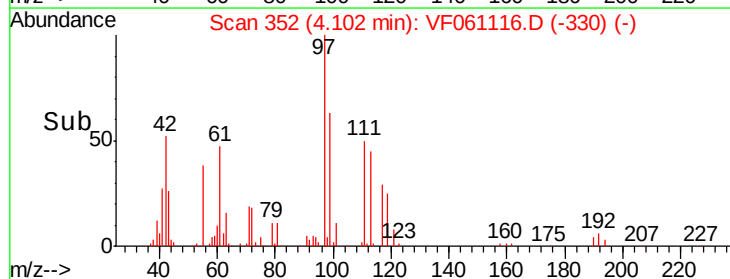
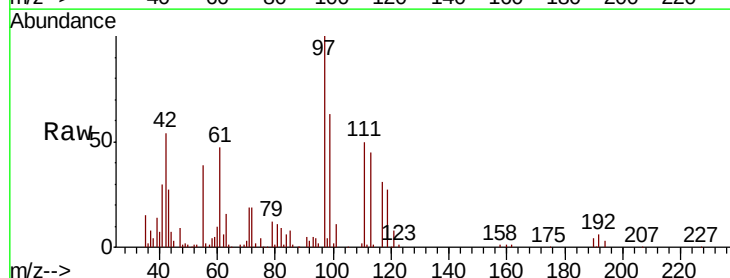
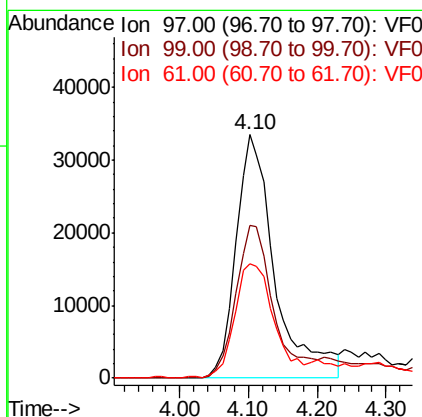
Manual Integrations
APPROVED

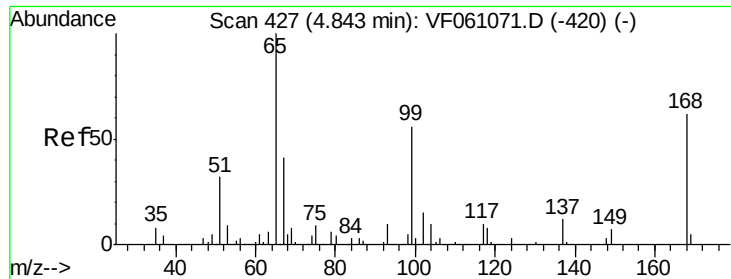
apatel
12/21/2018 12:23:39 PM



#32
1,1,1-Trichloroethane
Concen: 55.408 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.6	77.4
61	47.2	36.2	54.2





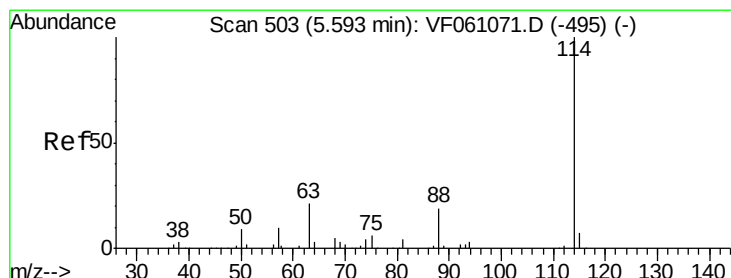
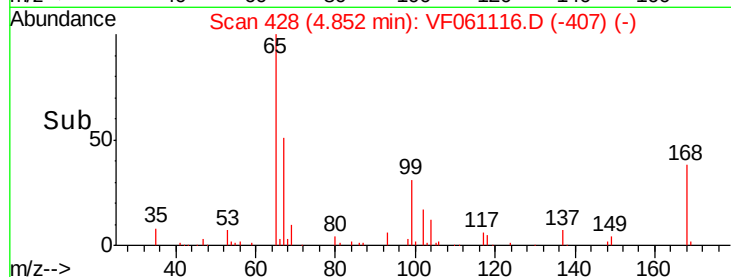
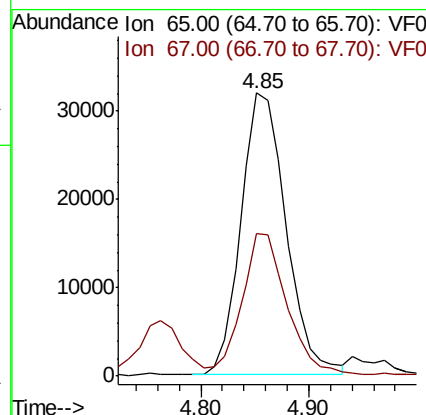
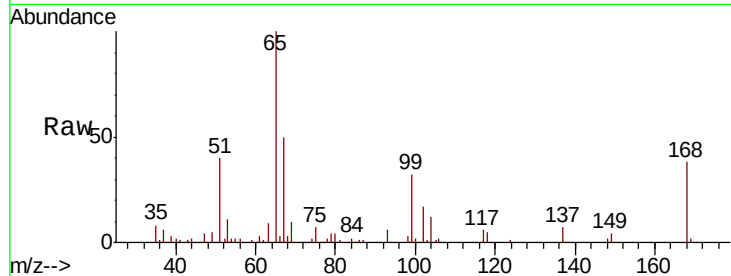
#33
 1,2-Dichloroethane-d4
 Concen: 49.386 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	94.6

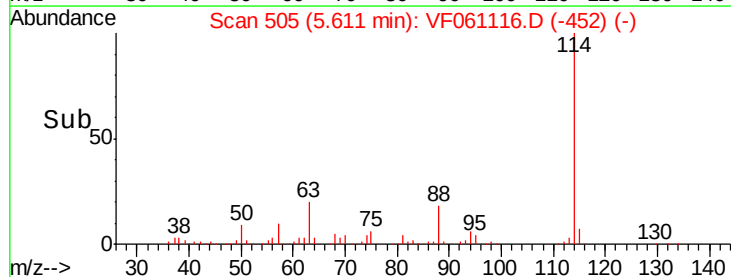
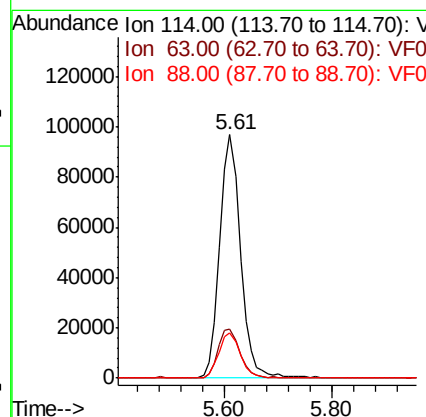
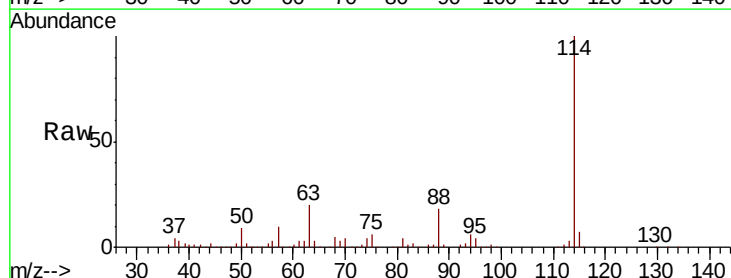
Manual Integrations
 APPROVED

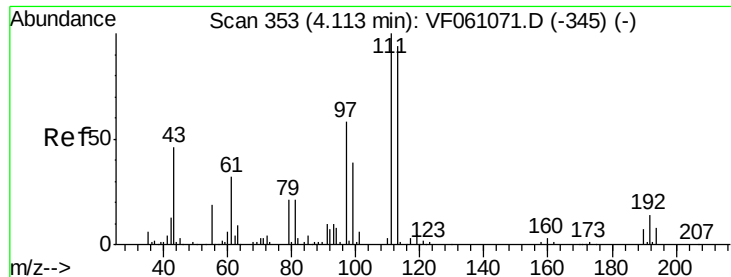
apatel
 12/21/2018 12:23:39 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.02 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.6
88	18.4	0.0	38.0





#35

Dibromofluoromethane

Concen: 51.639 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

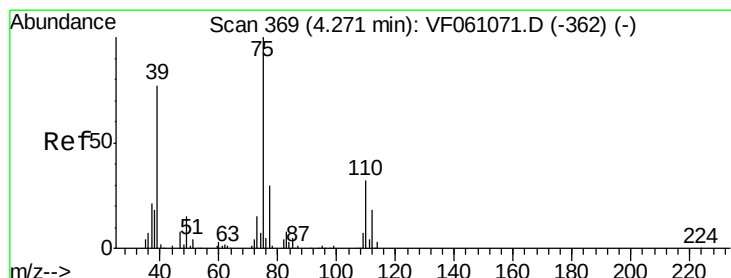
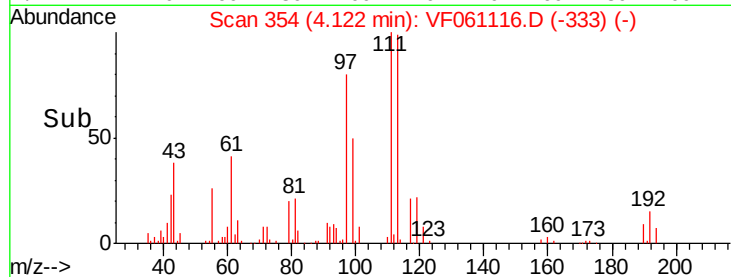
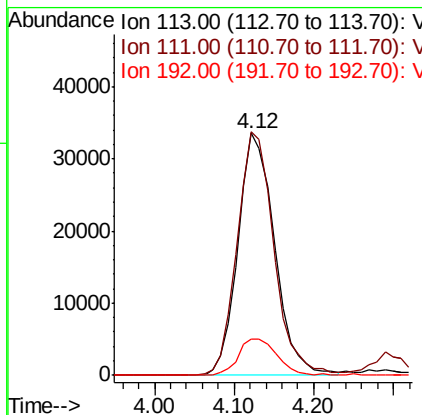
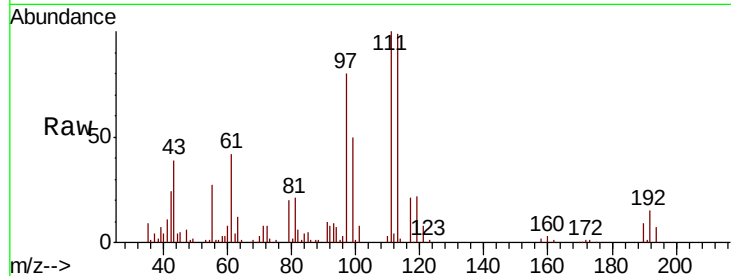
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	113	Resp:	107274
Ion Ratio	Lower	Upper	
113	100		
111	100.6	85.2	127.8
192	15.0	12.8	19.2

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#36

1,1-Dichloropropene

Concen: 46.929 ug/l

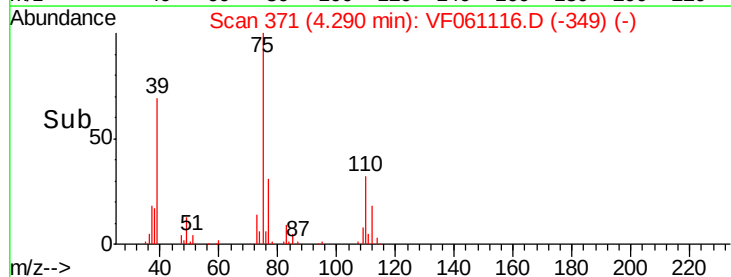
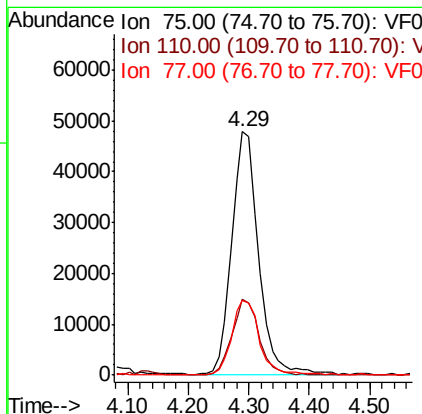
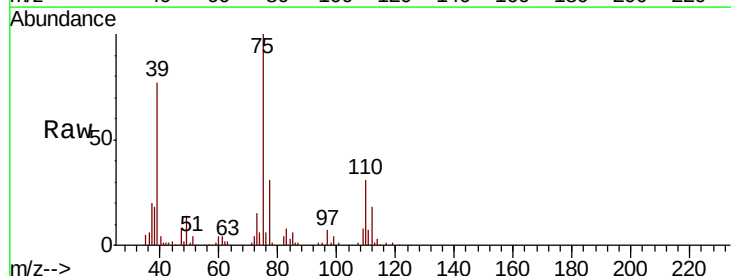
RT: 4.29 min Scan# 371

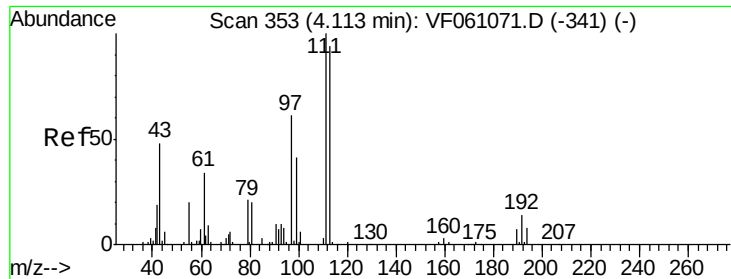
Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	75	Resp:	146901
Ion Ratio	Lower	Upper	
75	100		
110	31.3	16.1	48.2
77	30.6	24.5	36.7





#37

Ethyl Acetate

Concen: 46.778 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

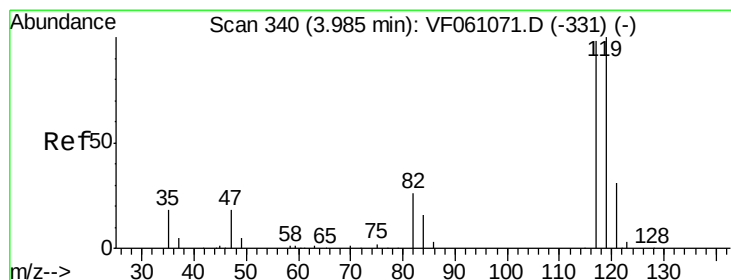
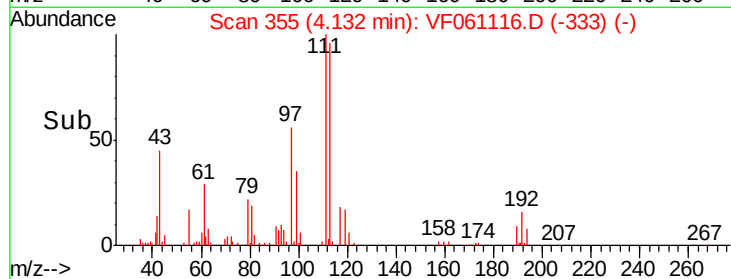
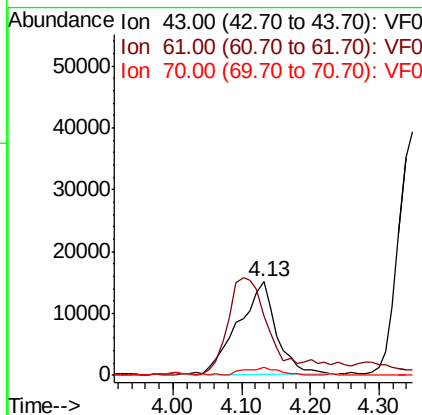
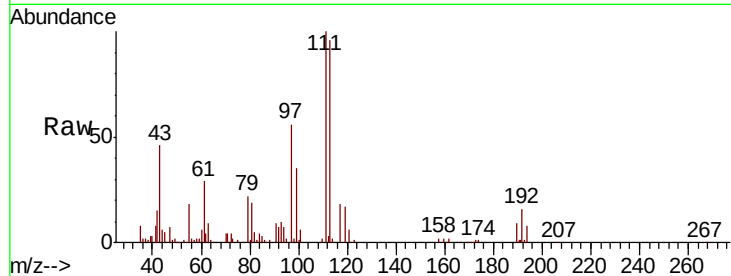
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	43	Resp:	57597
Ion	Ratio	Lower	Upper
43	100		
61	63.6	56.6	84.8
70	8.9	6.3	9.5

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#38

Carbon Tetrachloride

Concen: 46.005 ug/l

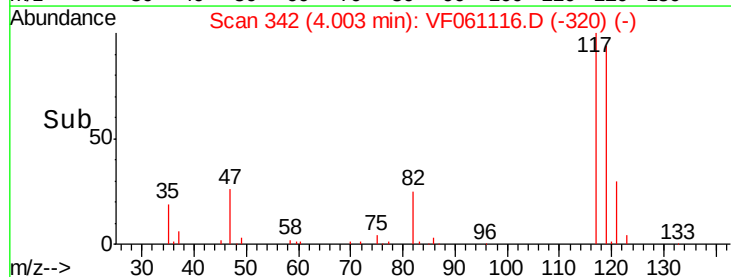
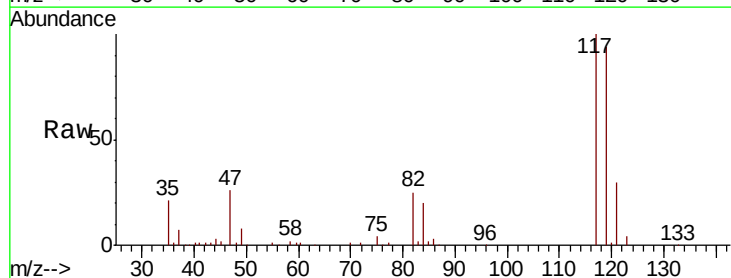
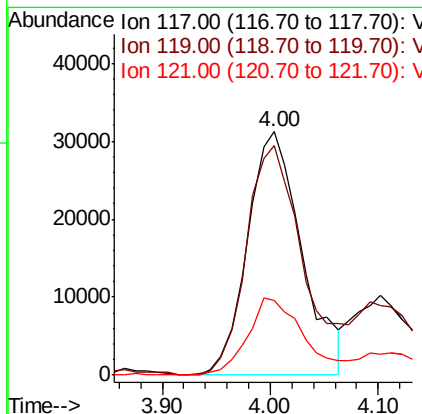
RT: 4.00 min Scan# 342

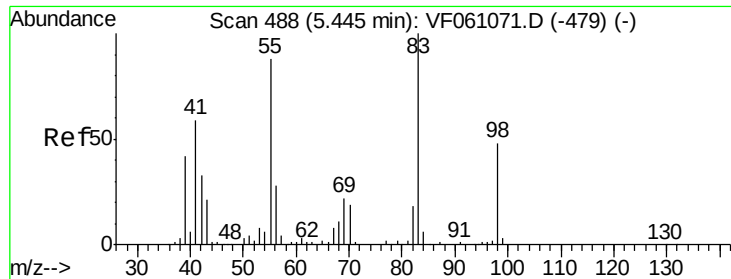
Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	117	Resp:	109669
Ion	Ratio	Lower	Upper
117	100		
119	94.4	82.1	123.1
121	30.4	25.5	38.3





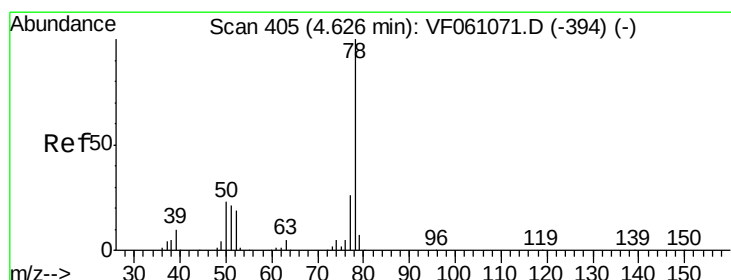
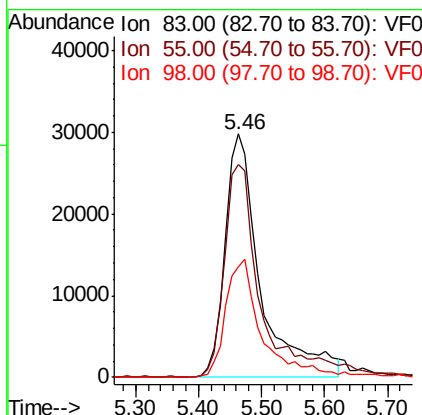
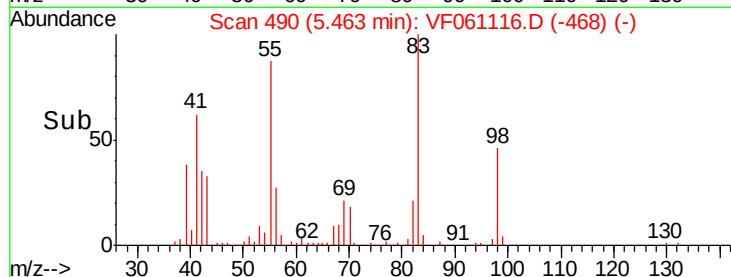
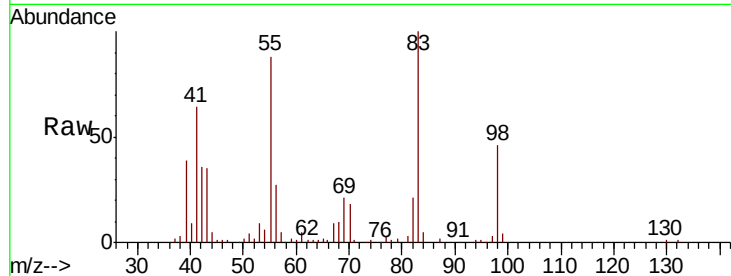
#39
Methylvlcyclohexane
Concen: 41.739 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.7	70.6	105.8
98	45.5	38.5	57.7

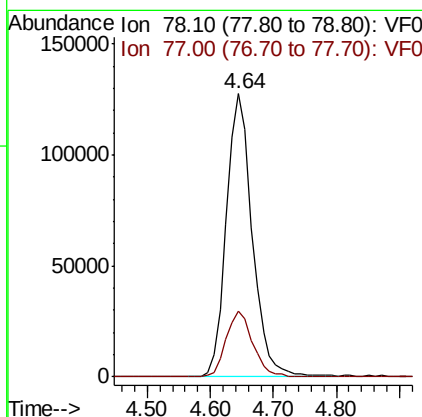
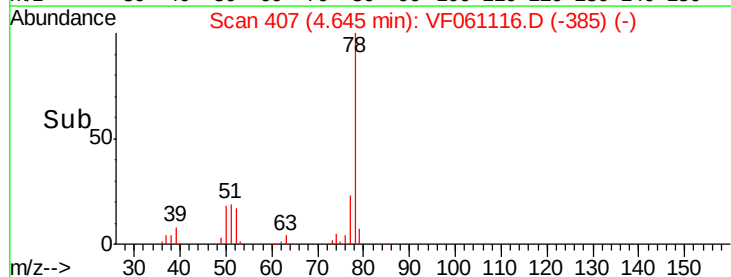
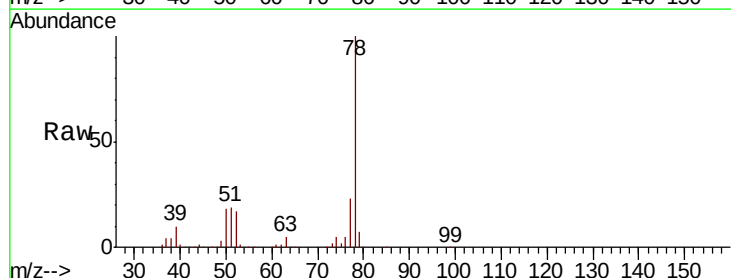
Manual Integrations
APPROVED

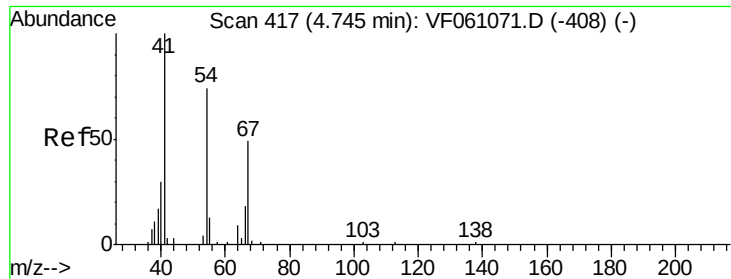
apatel
12/21/2018 12:23:39 PM



#40
Benzene
Concen: 54.099 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	20.7	31.1





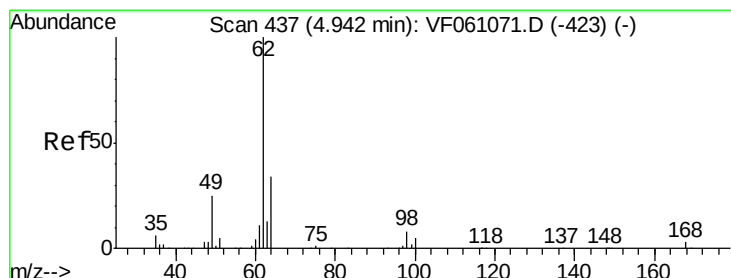
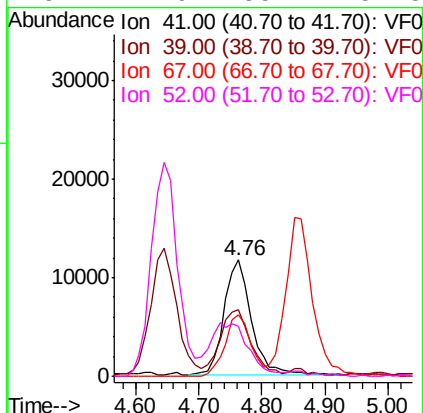
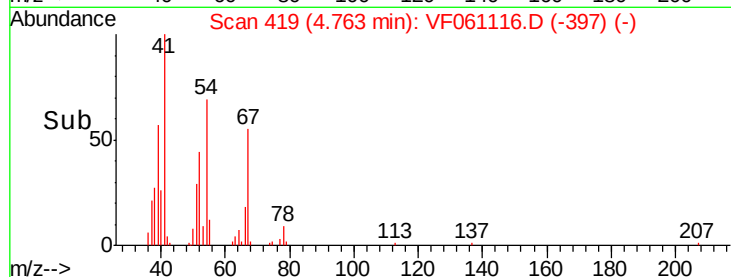
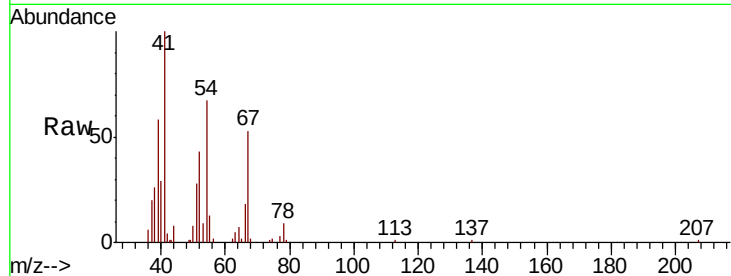
#41
Methacrylonitrile
Concen: 52.114 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion:	41	Resp:	34452
Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.7	68.5
67	53.0	38.9	58.3
52	42.9	35.2	52.8

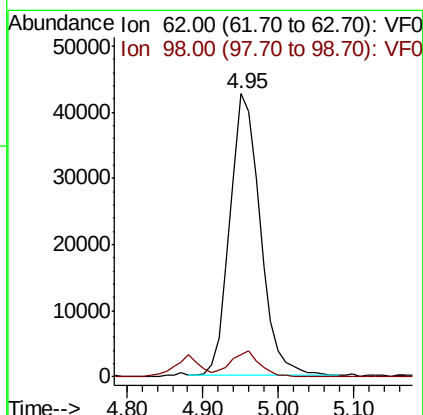
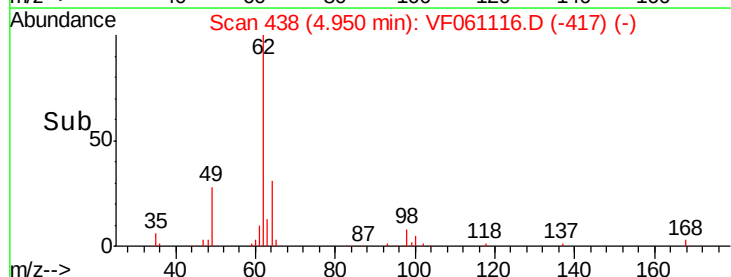
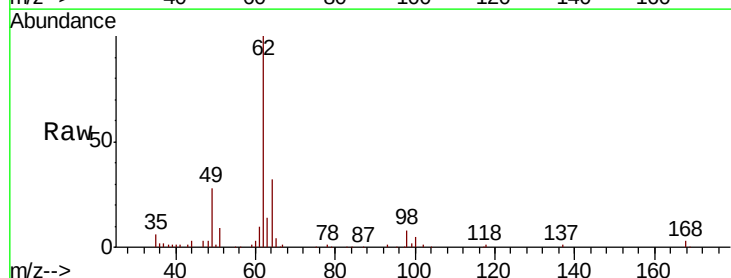
Manual Integrations
APPROVED

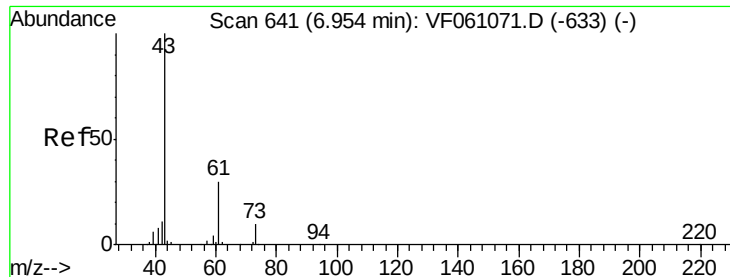
apatel
12/21/2018 12:23:39 PM



#42
1,2-Dichloroethane
Concen: 46.228 ug/l
RT: 4.95 min Scan# 438
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion:	62	Resp:	118217
Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	16.6





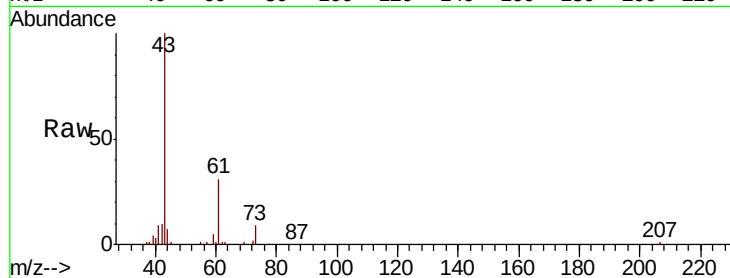
#43
Isopropyl Acetate
Concen: 38.930 ug/l
RT: 6.97 min Scan# 643
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

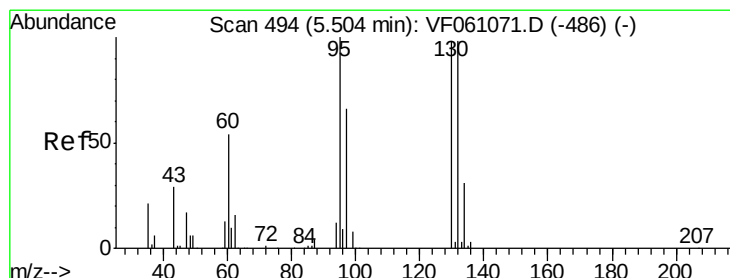
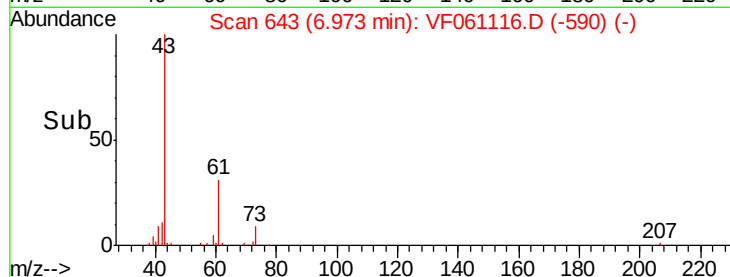
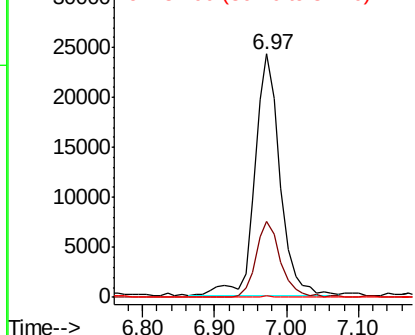
Tot Ion	Ratio	Lower	Upper
43	100		
61	31.1	23.8	35.8
87	0.5	0.0	0.0#

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM

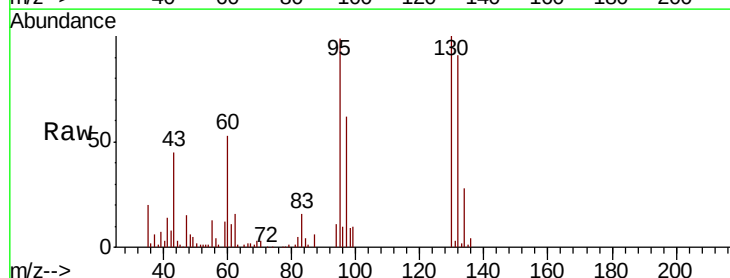


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0

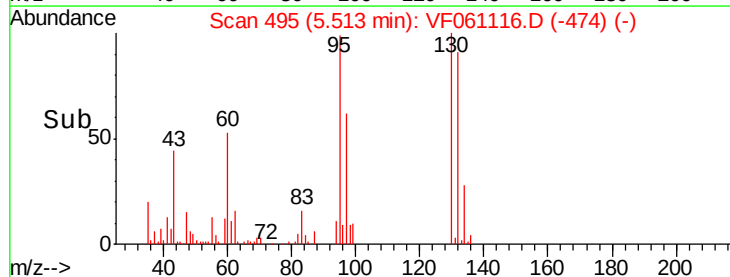
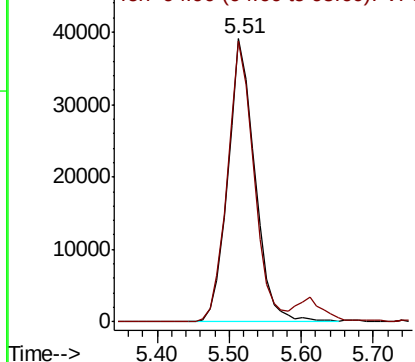


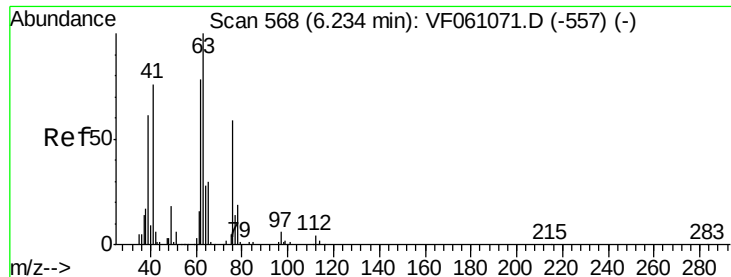
#44
Trichloroethene
Concen: 47.999 ug/l
RT: 5.51 min Scan# 495
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	205.2



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VF0





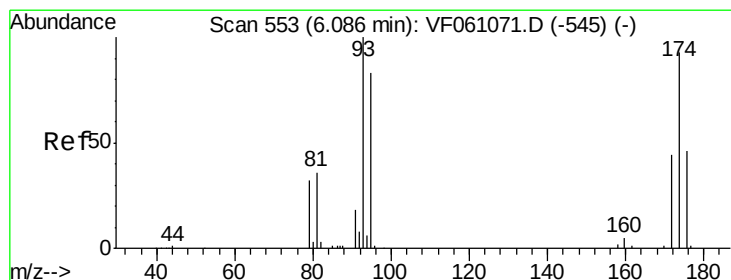
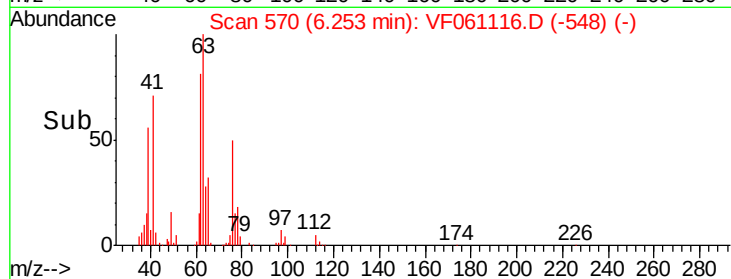
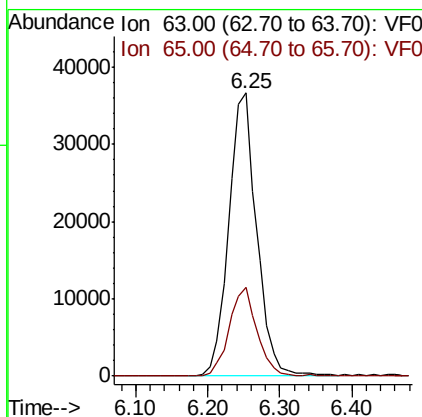
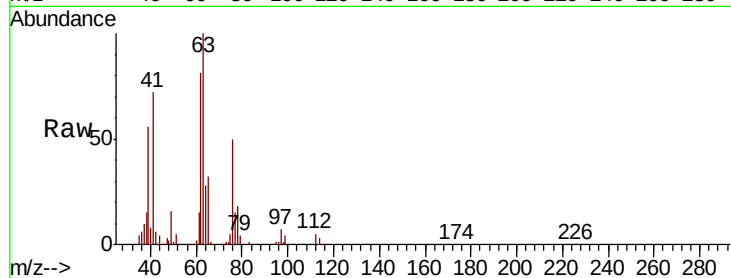
#45
 1,2-Dichloropropane
 Concen: 54.132 ug/l
 RT: 6.25 min Scan# 570
 Delta R.T. 0.02 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	63	Resp	99142
Ion Ratio	Lower	Upper	
63	100		
65	31.6	24.4	36.6

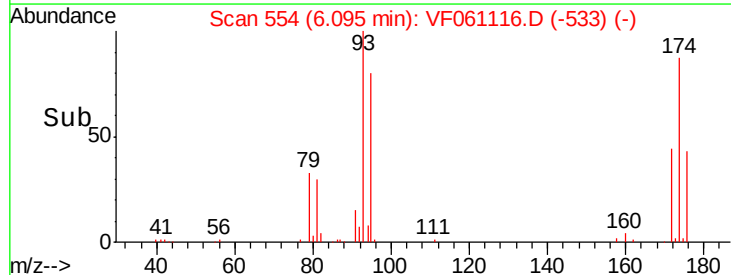
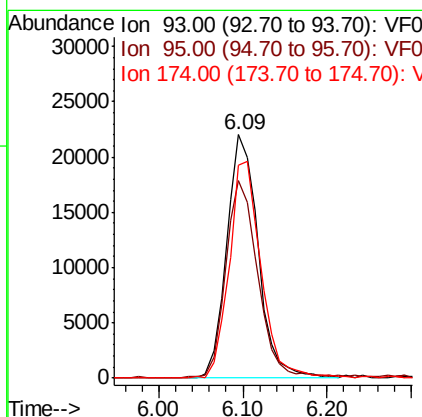
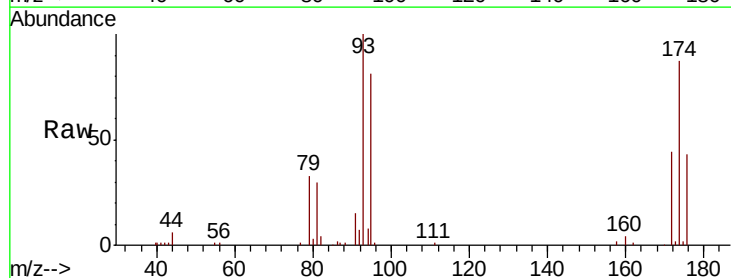
Manual Integrations
 APPROVED

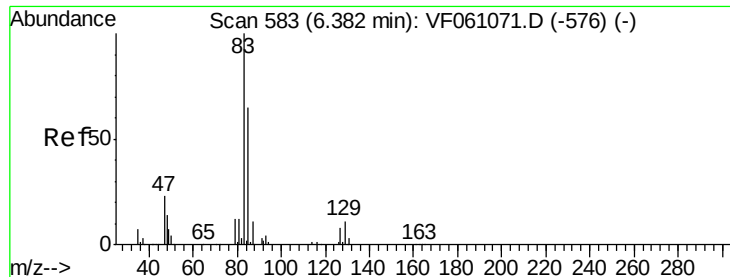
apatel
 12/21/2018 12:23:39 PM



#46
 Dibromomethane
 Concen: 48.216 ug/l
 RT: 6.09 min Scan# 554
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	93	Resp	57275
Ion Ratio	Lower	Upper	
93	100		
95	81.0	66.9	100.3
174	89.0	74.1	111.1





#47

Bromodichloromethane

Concen: 45.092 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

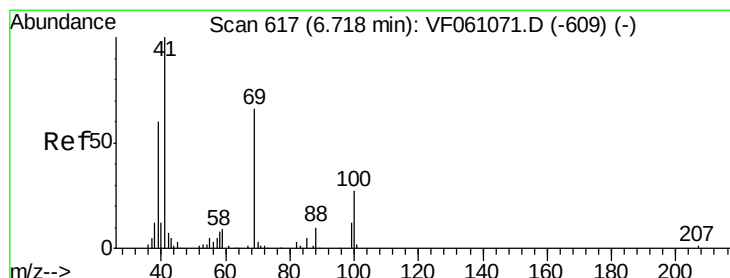
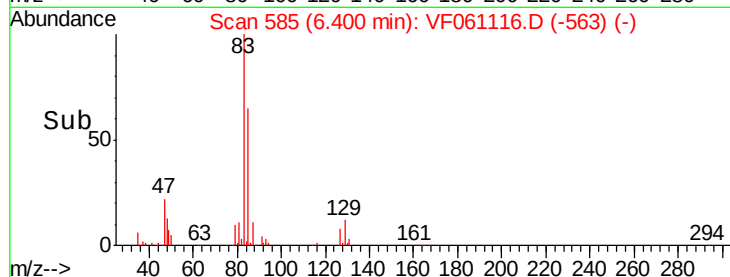
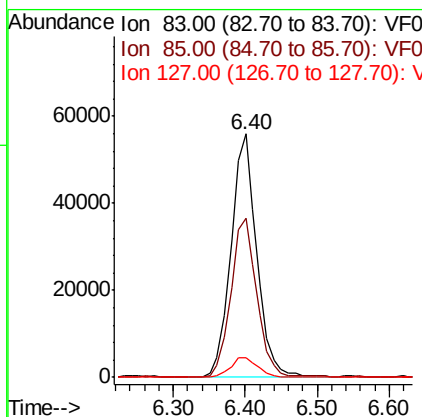
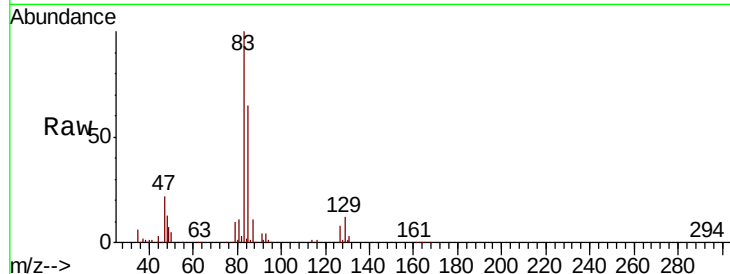
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	83	Resp:	139172
Ion Ratio	Lower	Upper	
83	100		
85	65.1	52.2	78.4
127	8.2	6.1	9.1

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#48

Methyl methacrylate

Concen: 58.411 ug/l

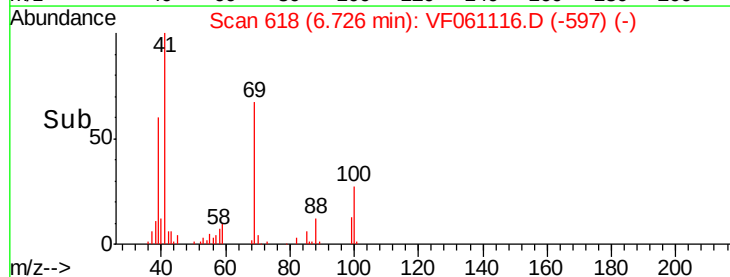
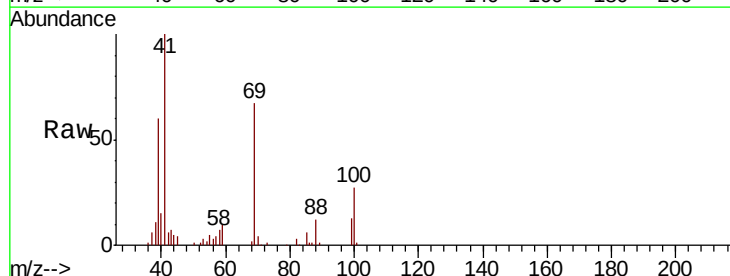
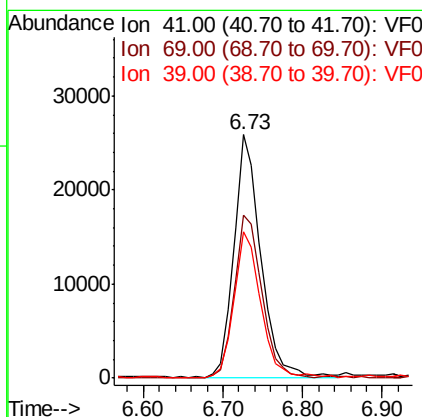
RT: 6.73 min Scan# 618

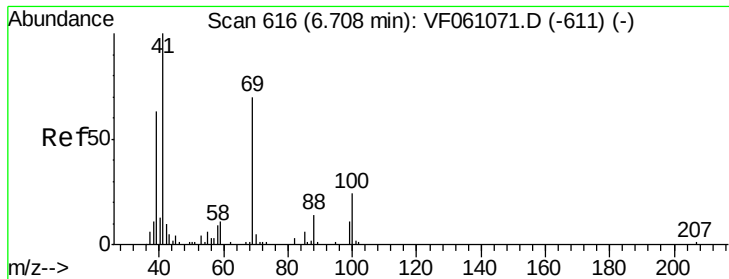
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	41	Resp:	61634
Ion Ratio	Lower	Upper	
41	100		
69	66.9	52.7	79.1
39	60.3	47.8	71.6





#49

1,4-Dioxane

Concen: 1158.002 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

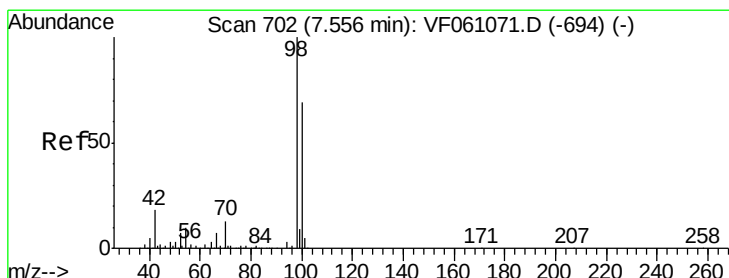
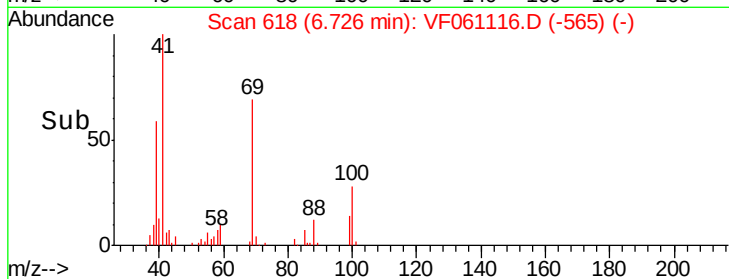
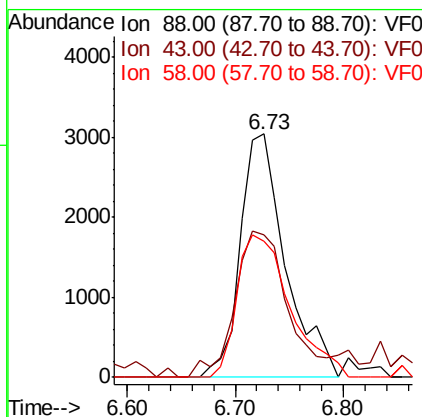
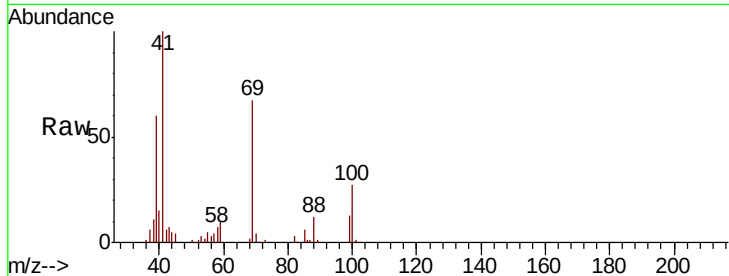
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	88	Resp:	8866
Ion Ratio	Lower	Upper	
88	100		
43	58.5	33.3	49.9#
58	55.8	53.2	79.8

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#50

Toluene-d8

Concen: 48.169 ug/l

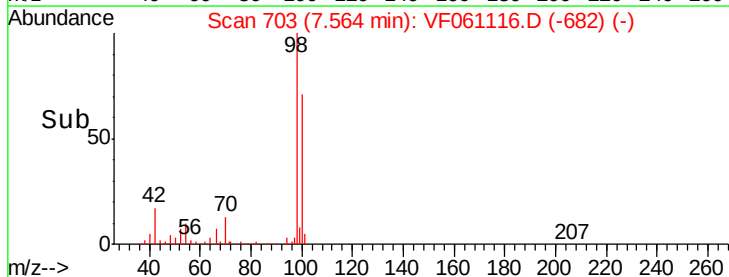
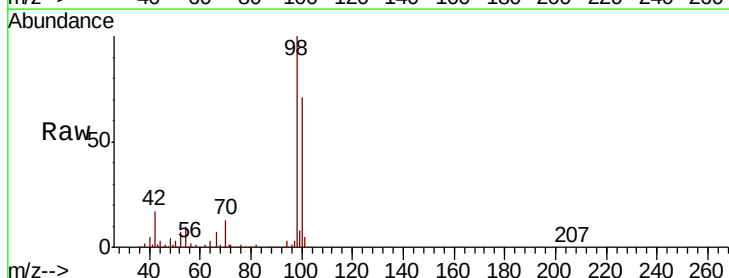
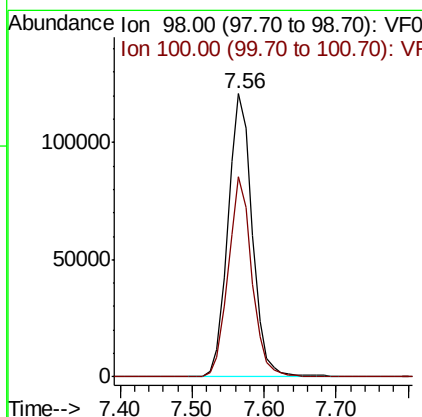
RT: 7.56 min Scan# 703

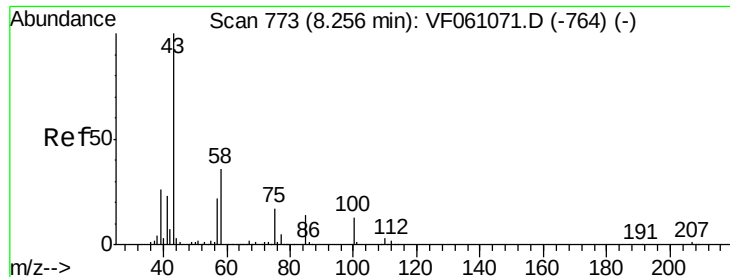
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	98	Resp:	283575
Ion Ratio	Lower	Upper	
98	100		
100	70.6	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 258.187 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 43 Resp: 267637

Ion Ratio Lower Upper

43 100

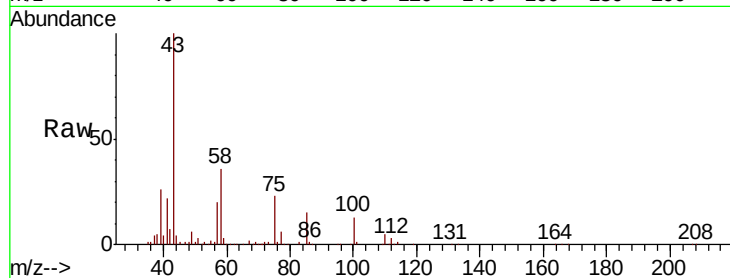
58 36.1 29.1 43.7

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

120000

100000

80000

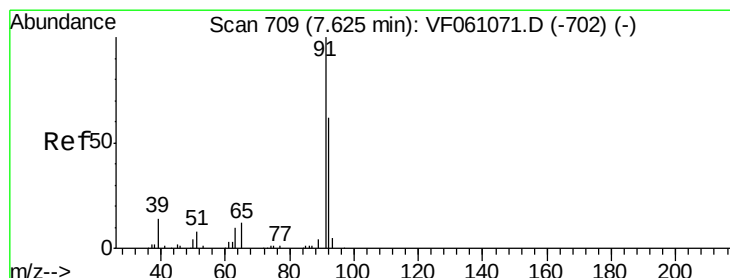
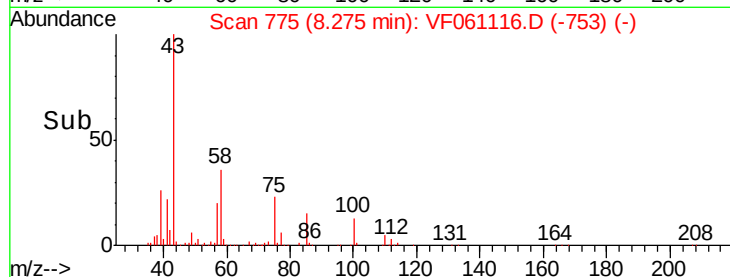
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 47.569 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061116.D

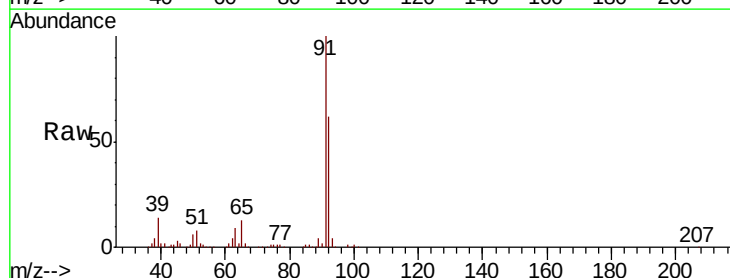
Acq: 20 Dec 2018 19:07

Tgt Ion: 92 Resp: 211973

Ion Ratio Lower Upper

92 100

91 161.8 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

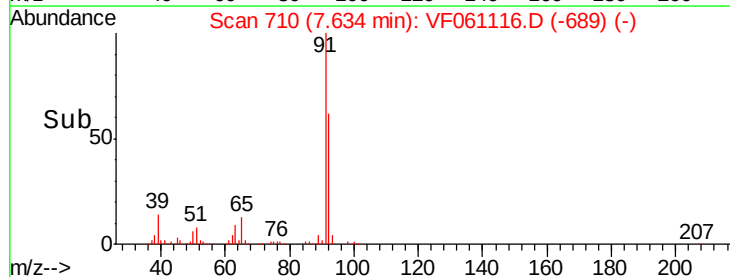
150000

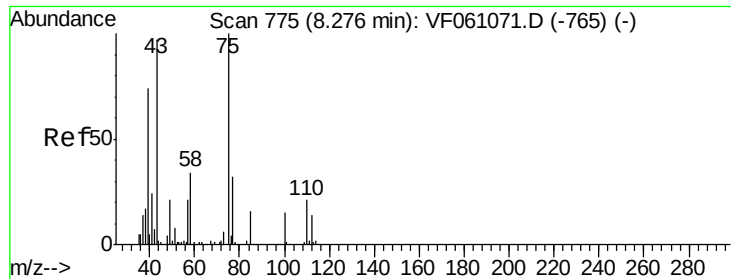
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 40.287 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 75 Resp: 100309

Ion Ratio Lower Upper

75 100

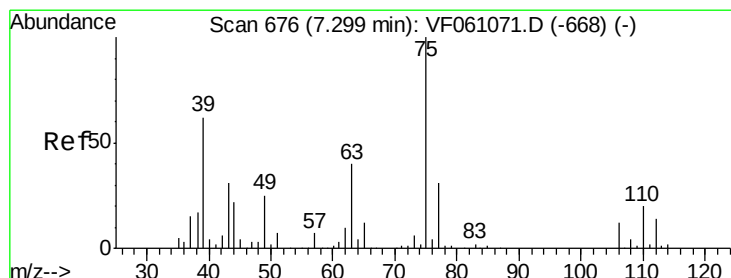
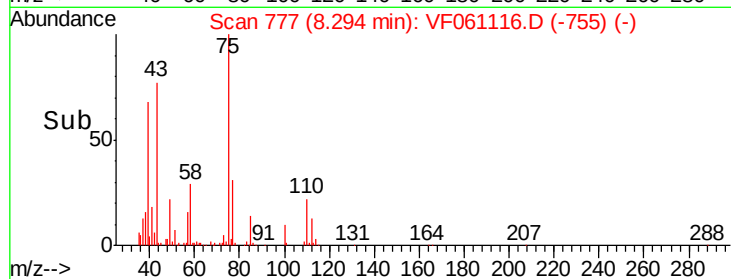
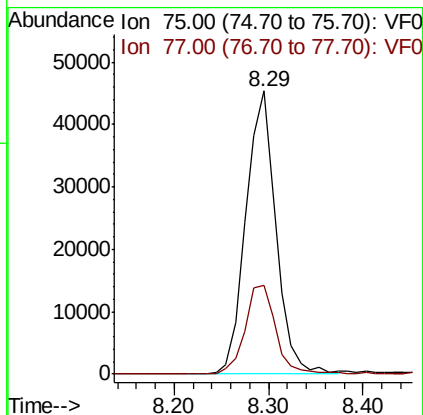
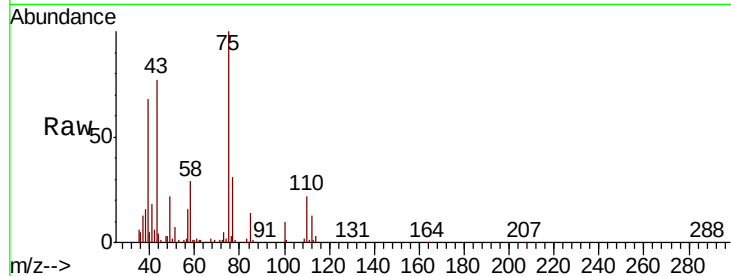
77 31.4 25.8 38.8

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#54

cis-1,3-Dichloropropene

Concen: 44.739 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

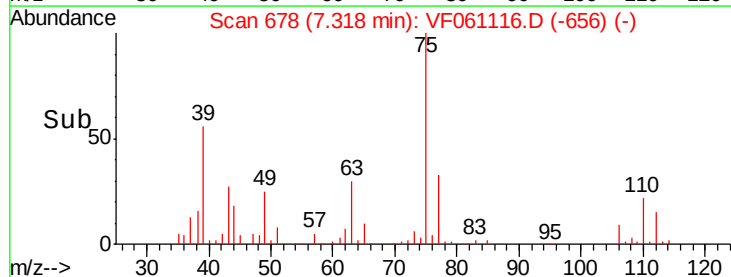
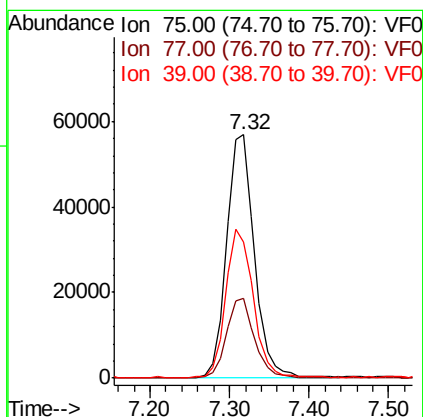
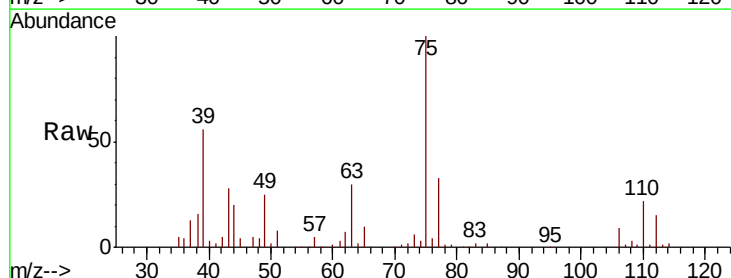
Tgt Ion: 75 Resp: 139807

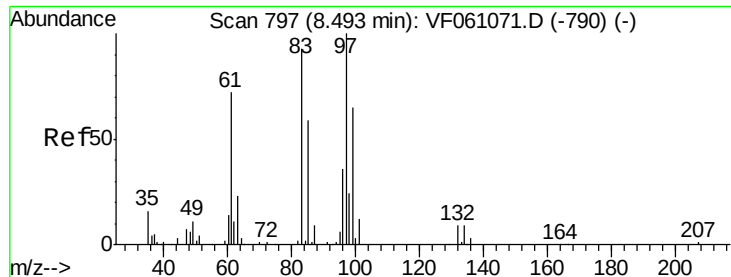
Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.4

39 55.8 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 49.304 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

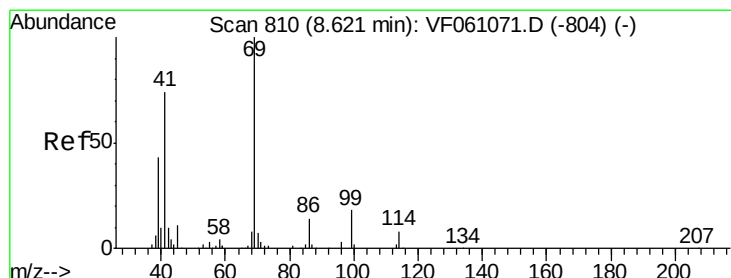
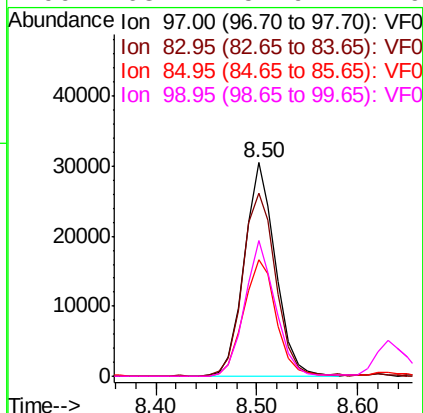
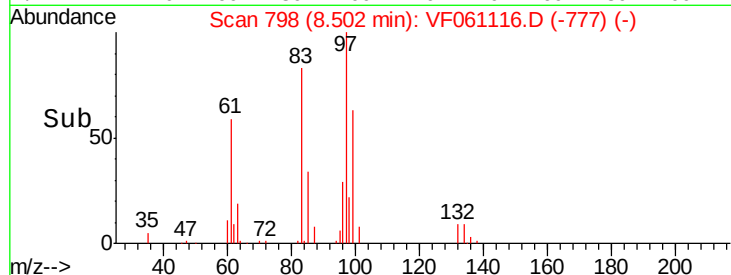
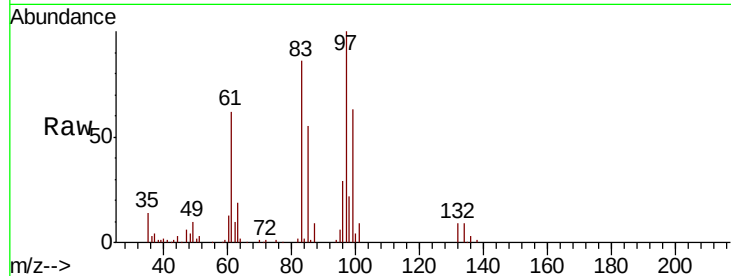
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	97	Resp:	65864
Ion	Ratio	Lower	Upper
97	100		
83	86.0	75.0	112.4
85	54.6	47.5	71.3
99	63.4	51.9	77.9

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#56

Ethyl methacrylate

Concen: 39.667 ug/l

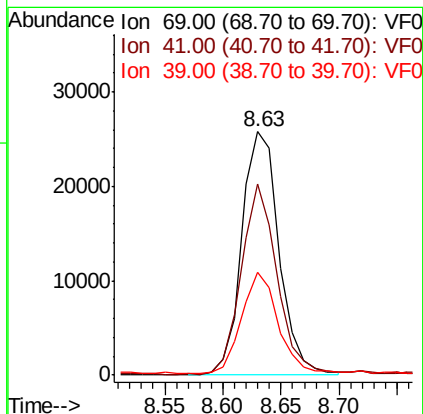
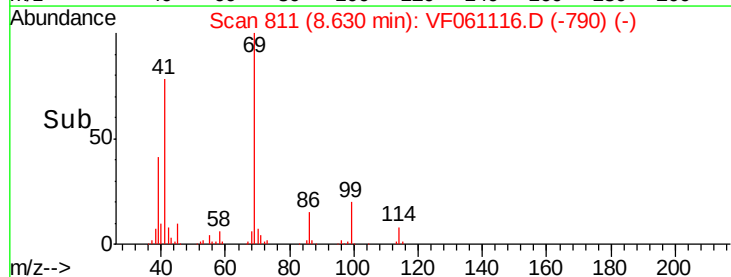
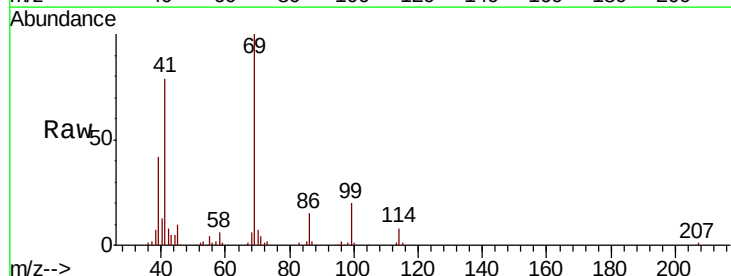
RT: 8.63 min Scan# 811

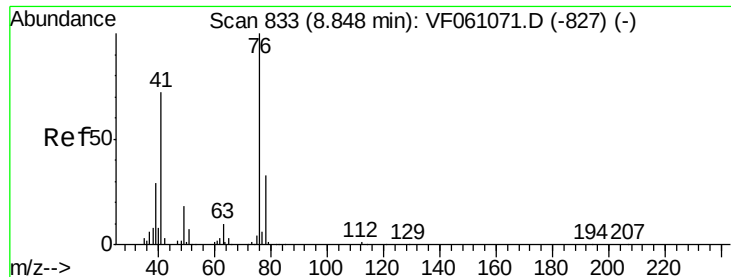
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	69	Resp:	57339
Ion	Ratio	Lower	Upper
69	100		
41	78.6	59.7	89.5
39	42.4	35.0	52.6





#57

1,3-Dichloropropane

Concen: 48.134 ug/l

RT: 8.87 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 76 Resp: 116296

Ion Ratio Lower Upper

76 100

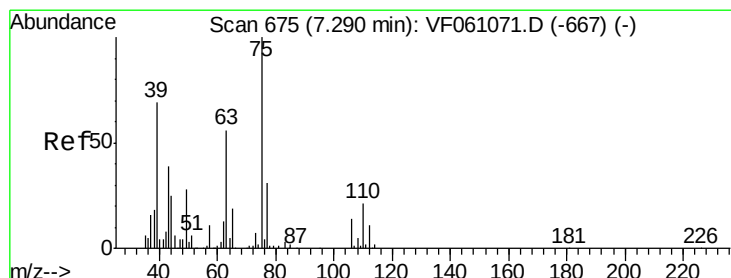
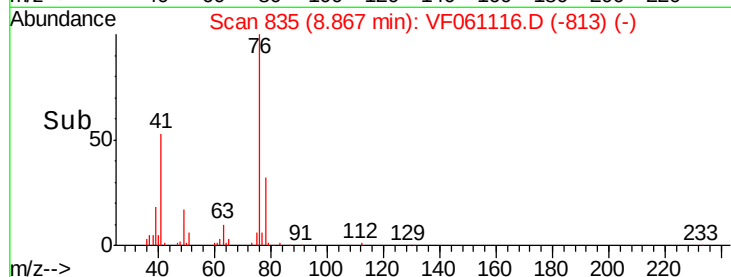
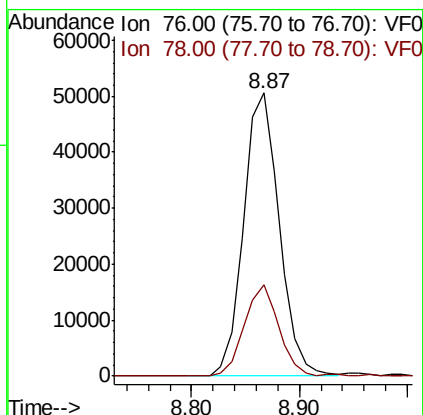
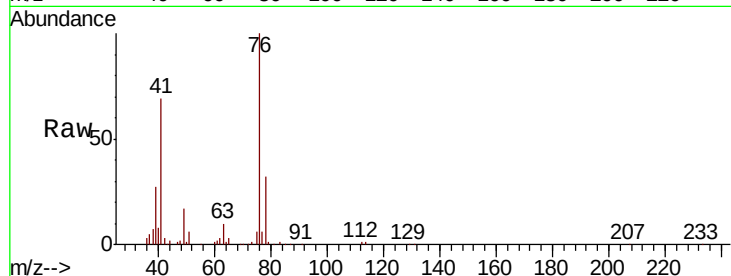
78 32.4 26.5 39.7

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#58

2-Chloroethyl Vinyl ether

Concen: 191.614 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.02 min

Lab File: VF061116.D

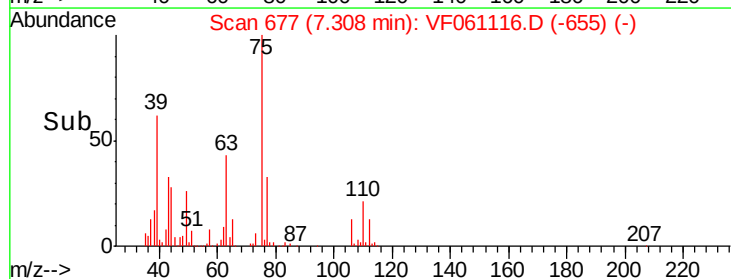
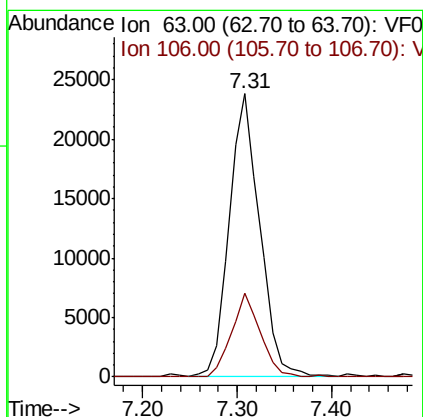
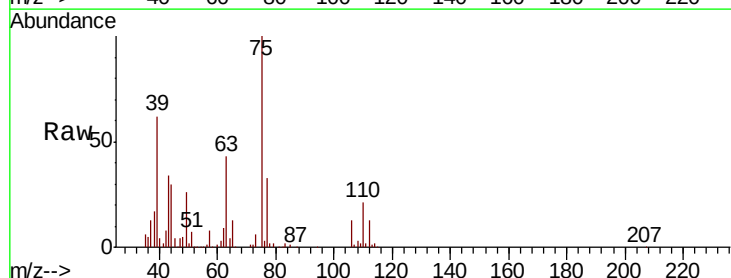
Acq: 20 Dec 2018 19:07

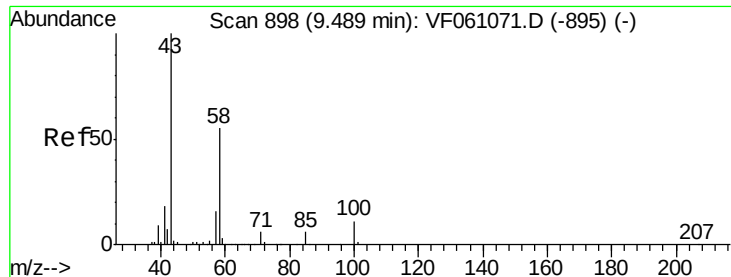
Tgt Ion: 63 Resp: 53196

Ion Ratio Lower Upper

63 100

106 29.4 19.8 29.8





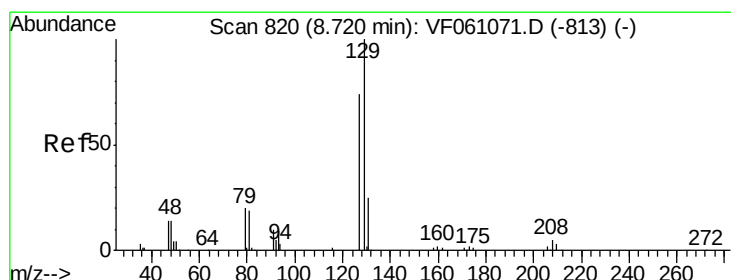
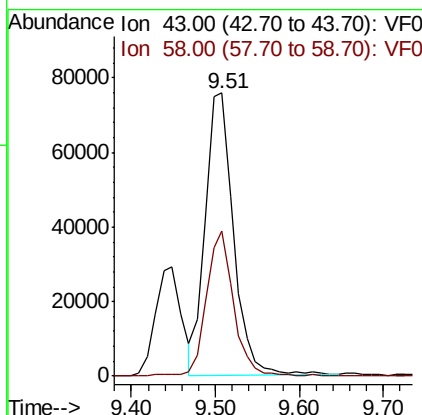
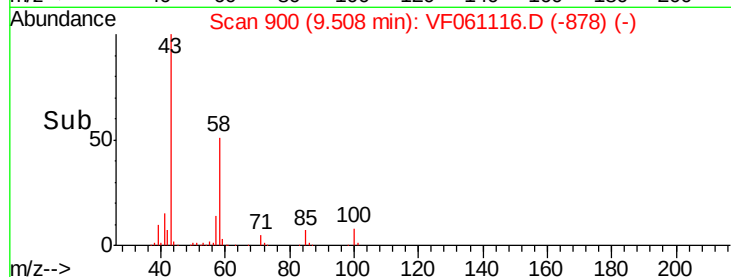
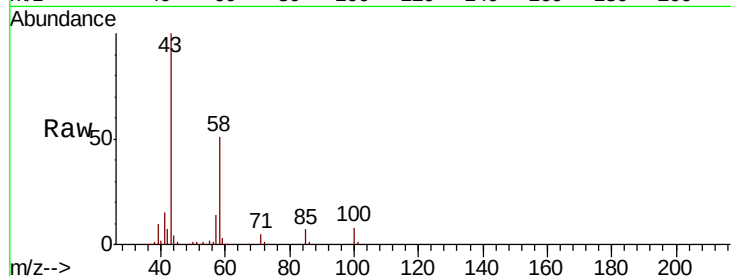
#59
2-Hexanone
Concen: 234.839 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion: 43 Resp: 176046
Ion Ratio Lower Upper
43 100
58 51.4 25.1 75.2

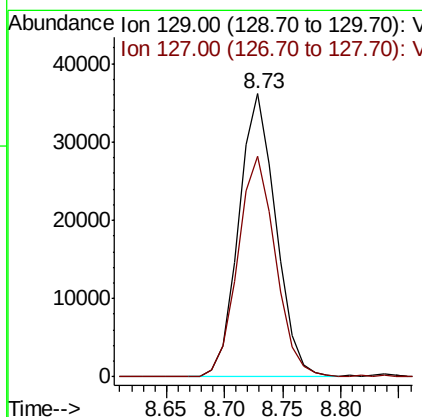
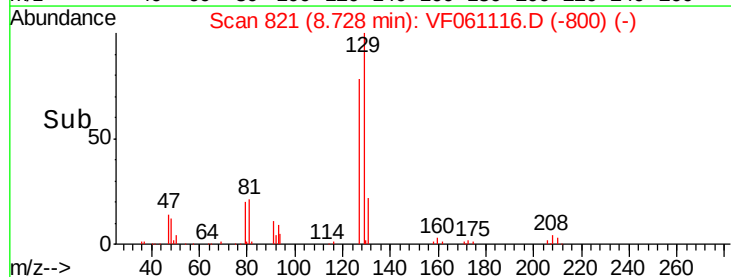
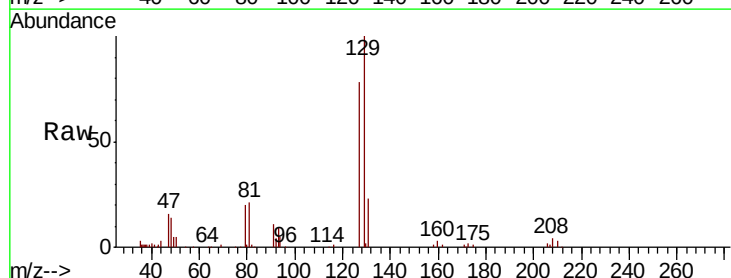
Manual Integrations
APPROVED

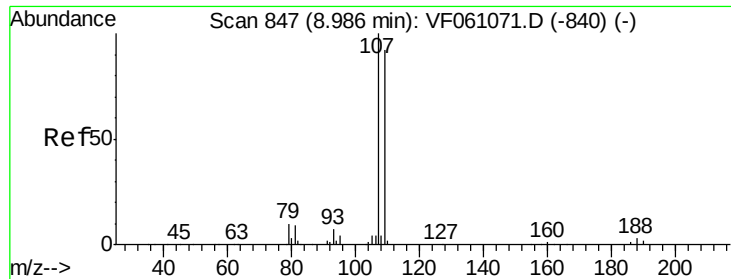
apatel
12/21/2018 12:23:39 PM



#60
Dibromochloromethane
Concen: 41.691 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion: 129 Resp: 79834
Ion Ratio Lower Upper
129 100
127 78.1 36.8 110.3





#61

1,2-Dibromoethane

Concen: 45.204 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:107 Resp: 64492

Ion Ratio Lower Upper

107 100

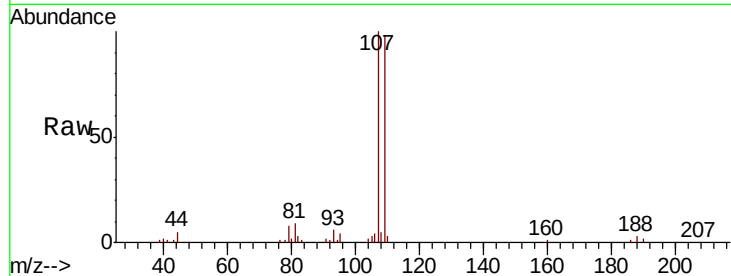
109 97.7 73.7 110.5

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.99

30000

25000

20000

15000

10000

5000

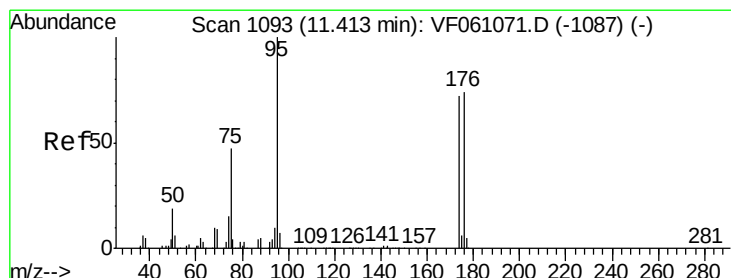
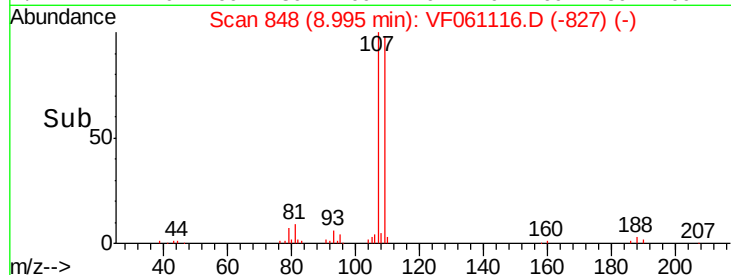
0

Time-->

8.90

9.00

9.10



#62

4-Bromofluorobenzene

Concen: 35.230 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

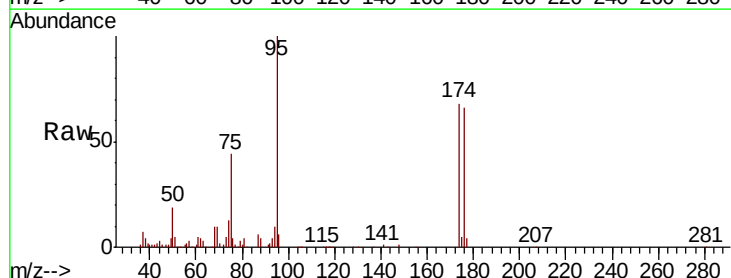
Tgt Ion: 95 Resp: 95616

Ion Ratio Lower Upper

95 100

174 67.9 0.0 143.8

176 66.3 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.42

60000

40000

20000

0

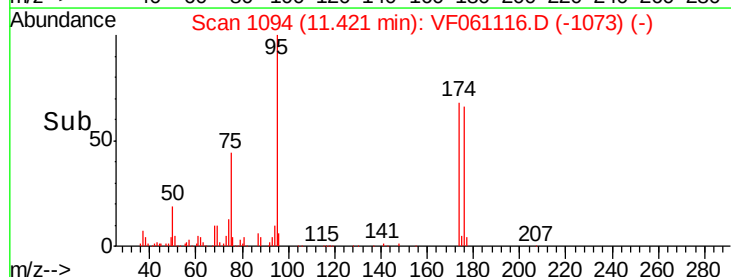
Time-->

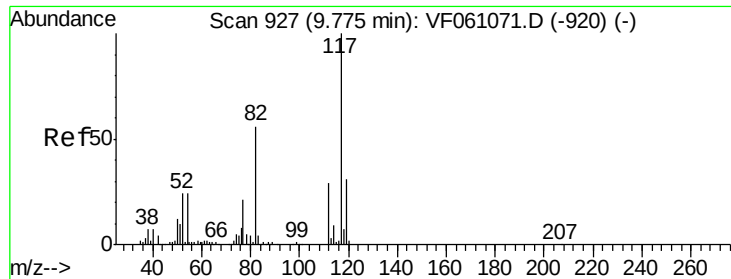
11.30

11.40

11.50

11.60





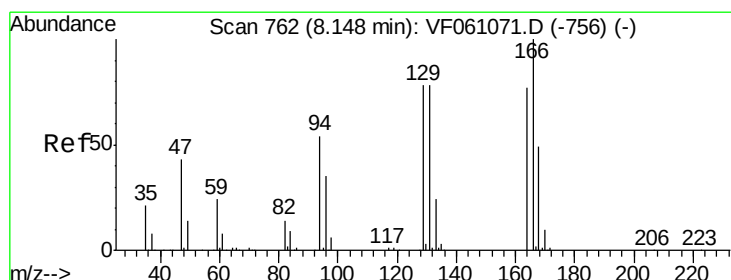
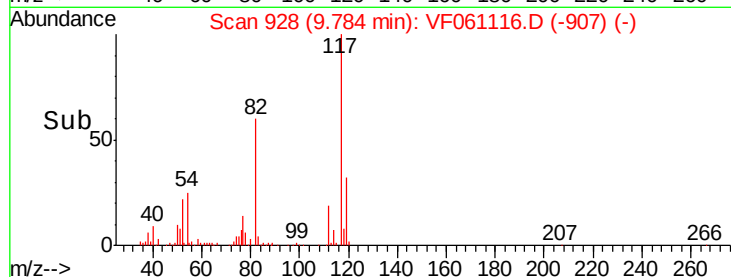
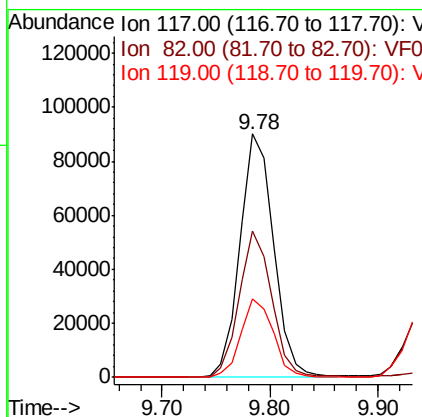
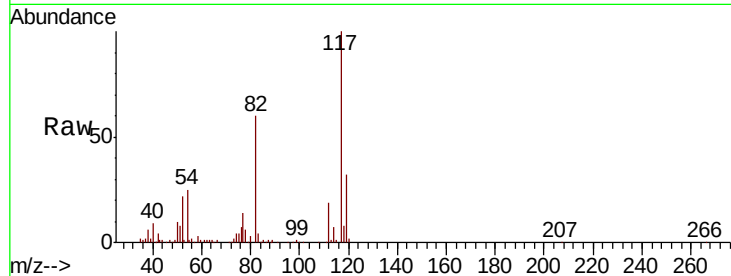
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.9	45.0	67.4
119	32.5	24.8	37.2

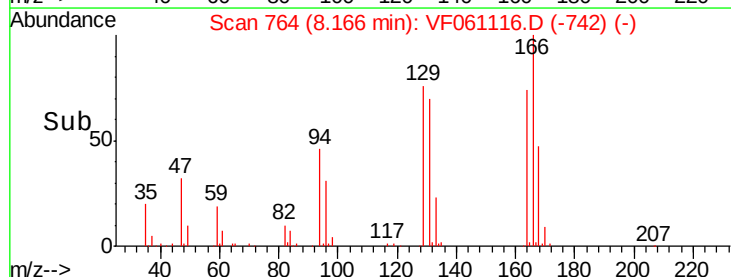
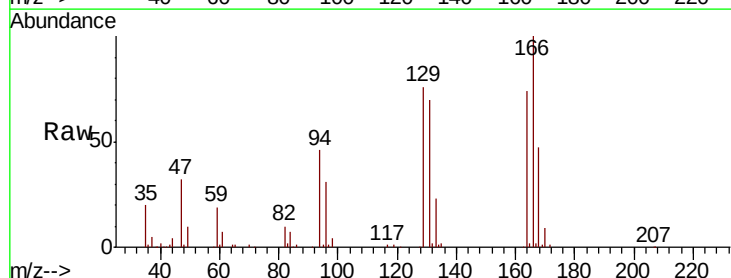
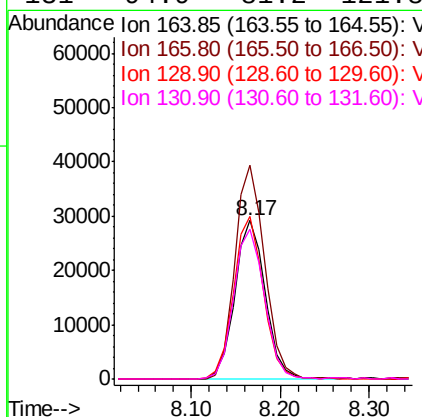
Manual Integrations
APPROVED

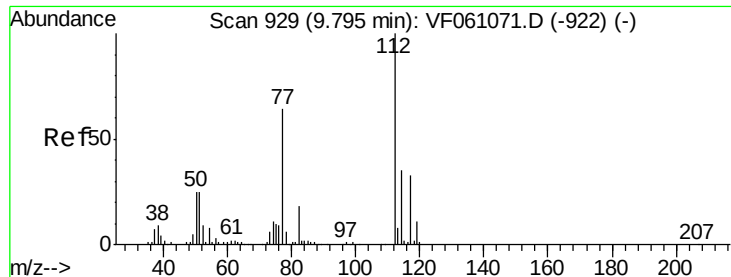
apatel
12/21/2018 12:23:39 PM



#64
Tetrachloroethene
Concen: 46.144 ug/l
RT: 8.17 min Scan# 764
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.0	104.0	156.0
129	103.2	81.1	121.7
131	94.9	81.2	121.8





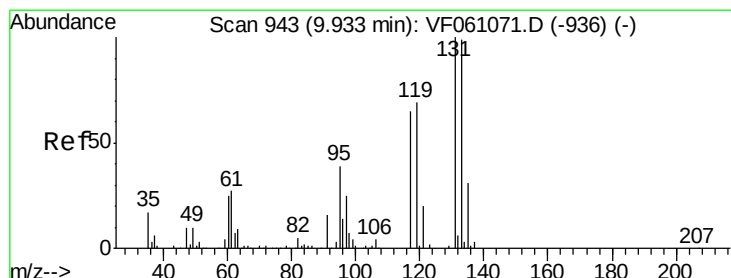
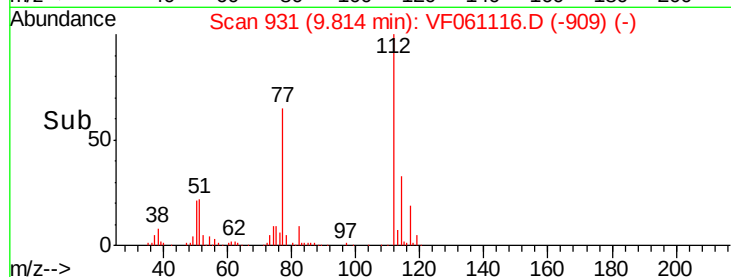
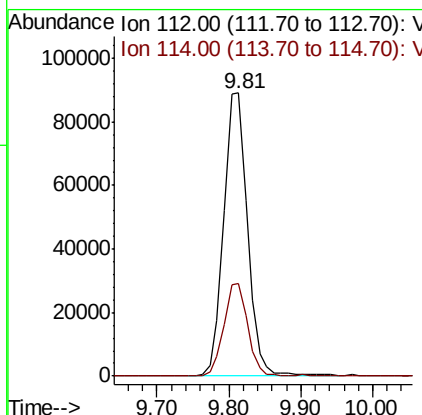
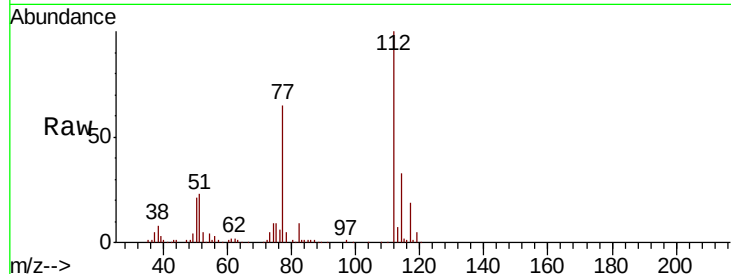
#65
Chlorobenzene
Concen: 50.755 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
112	100	204901		
114	32.8	27.8	41.6	

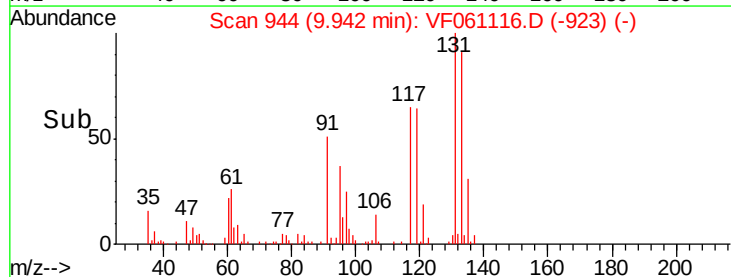
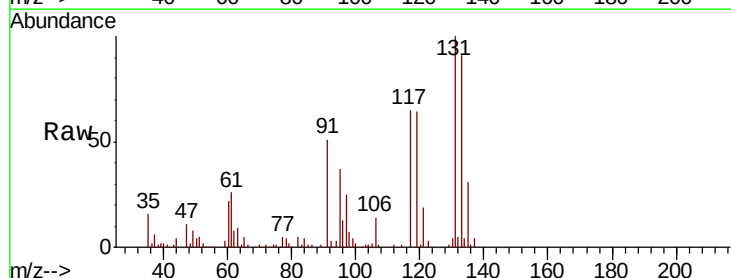
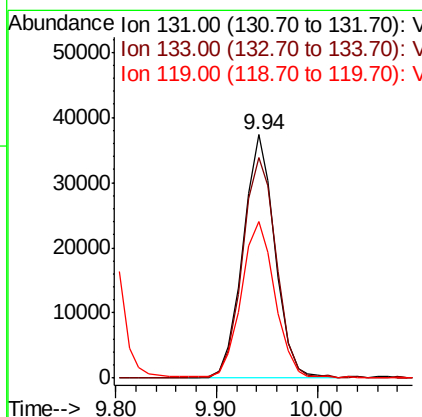
Manual Integrations
APPROVED

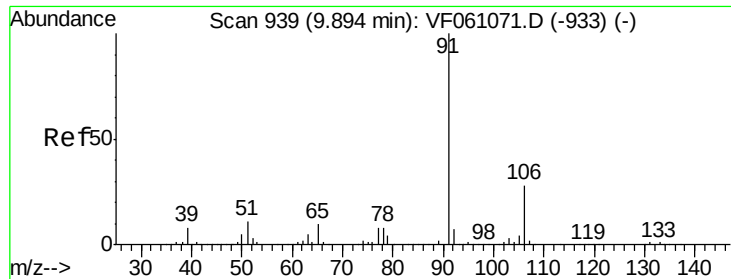
apatel
12/21/2018 12:23:39 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.937 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	82386		
133	90.8	49.5	148.7	
119	64.3	34.5	103.5	





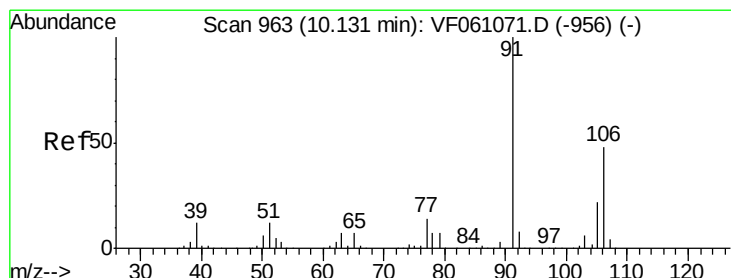
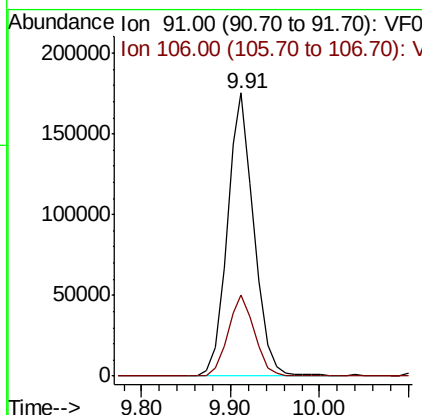
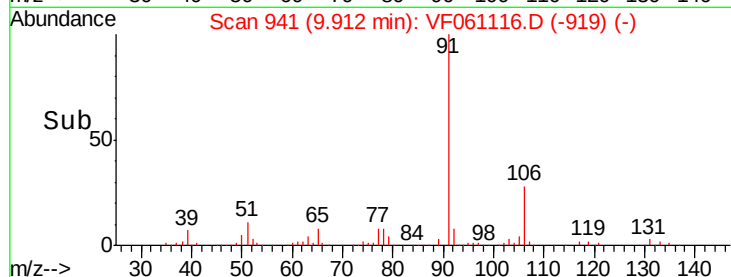
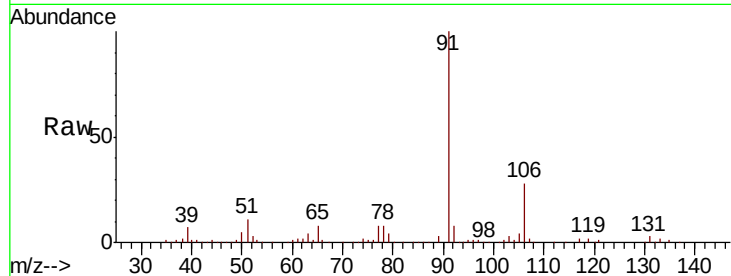
#67
Ethyl Benzene
Concen: 49.837 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion: 91 Resp: 366540
Ion Ratio Lower Upper
91 100
106 28.5 22.5 33.7

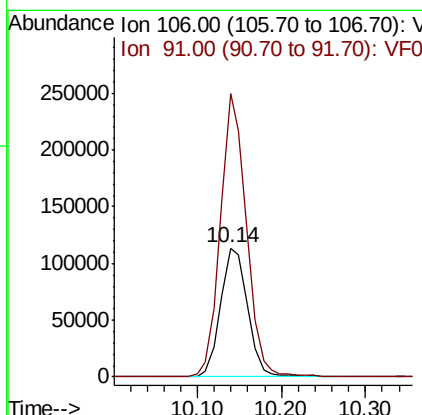
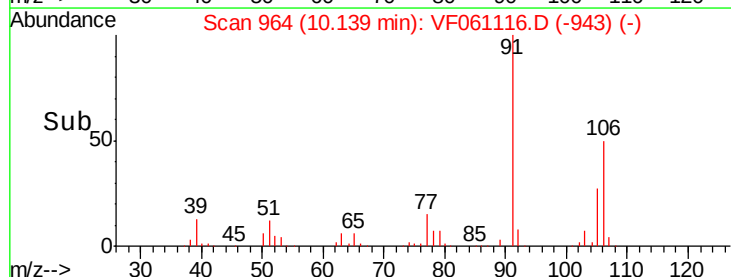
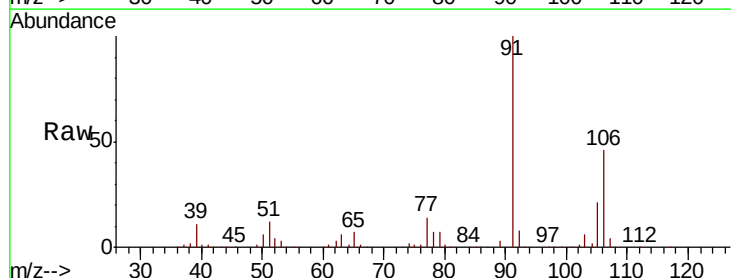
Manual Integrations
APPROVED

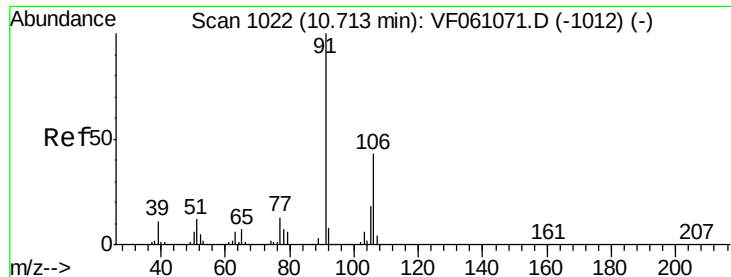
apatel
12/21/2018 12:23:39 PM



#68
m/p-Xylenes
Concen: 98.205 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion: 106 Resp: 254188
Ion Ratio Lower Upper
106 100
91 219.3 168.2 252.2





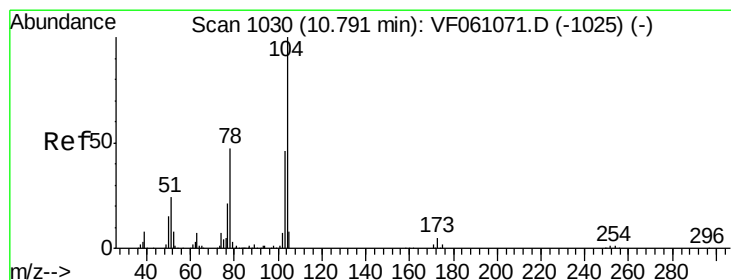
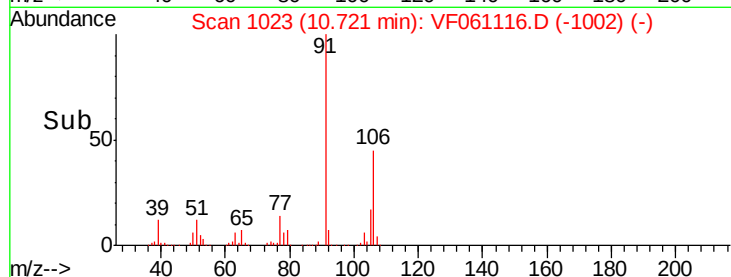
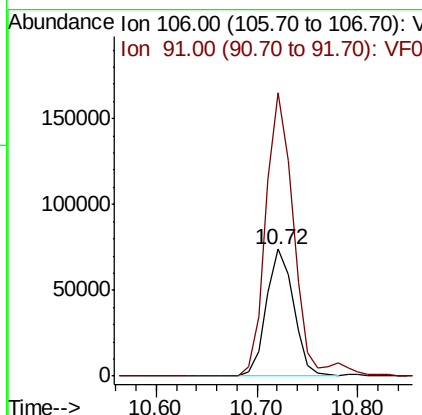
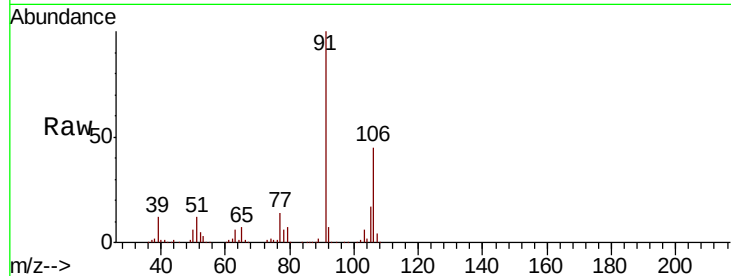
#69
o-Xylene
Concen: 48.521 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	223.3	115.9	347.7		

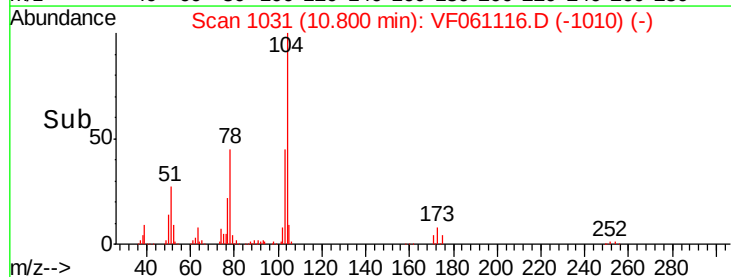
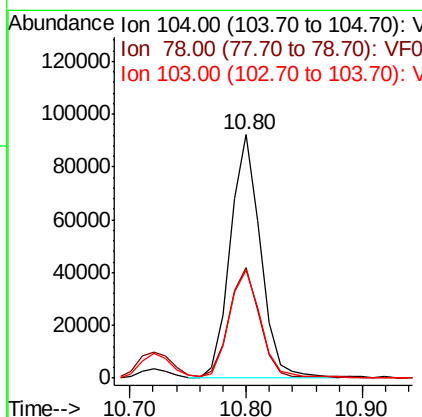
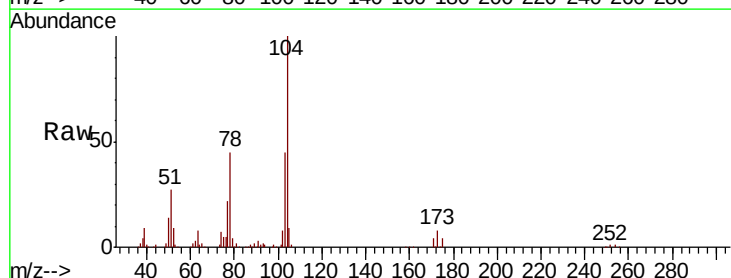
Manual Integrations
APPROVED

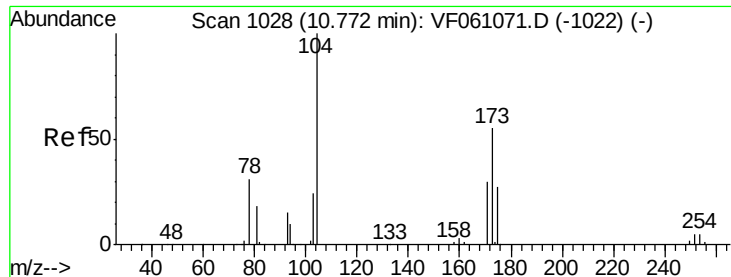
apatel
12/21/2018 12:23:39 PM



#70
Styrene
Concen: 46.659 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	45.3	38.4	57.6		
103	44.6	37.0	55.6		





#71

Bromoform

Concen: 46.347 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

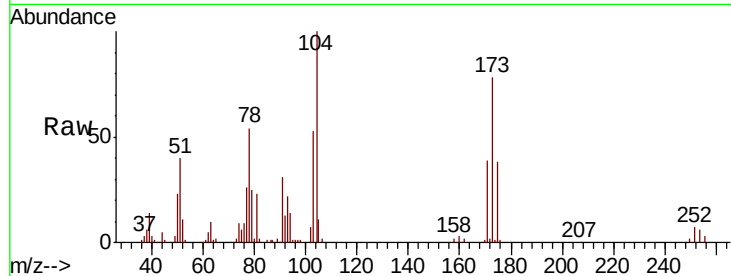
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.8	74.4
254	8.0	0.0	0.0#

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM

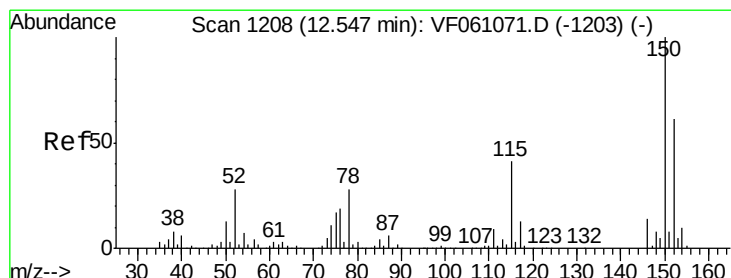
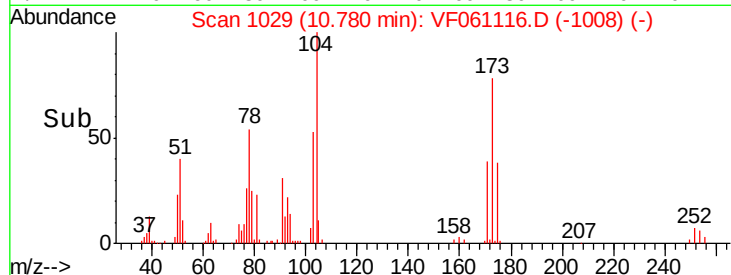
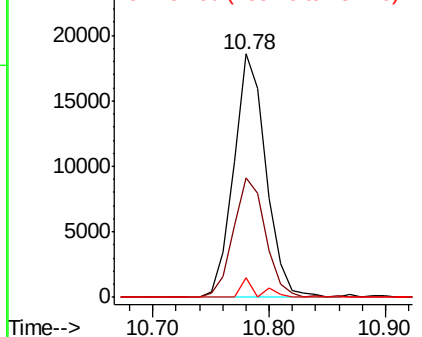


Abundance

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: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

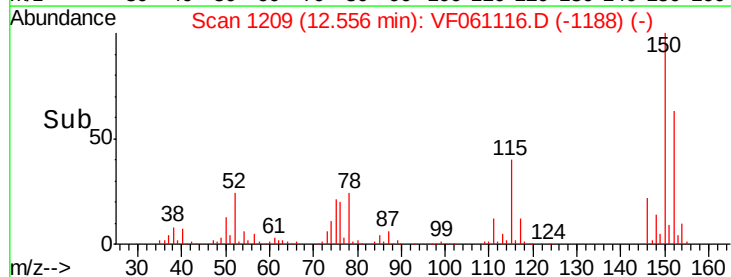
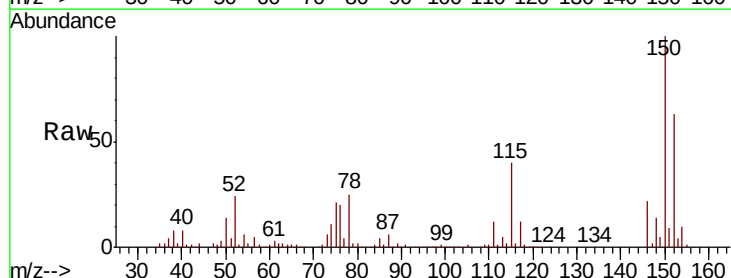
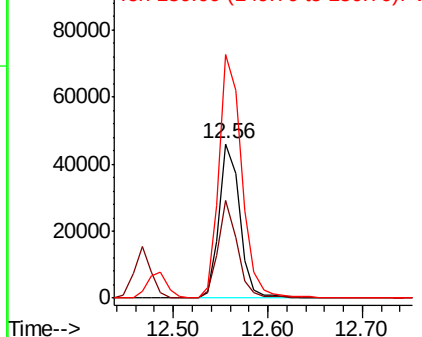
Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.0	33.3	99.9
150	158.0	0.0	328.2

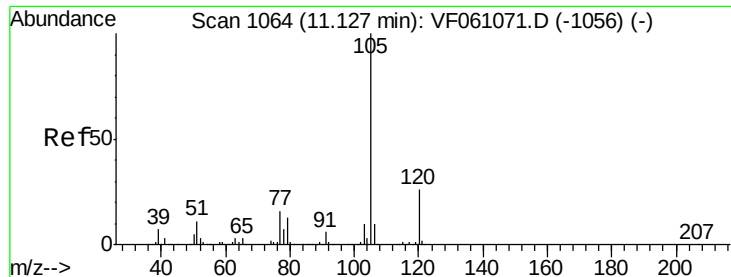
Abundance

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: 60.747 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:105 Resp: 367780

Ion Ratio Lower Upper

105 100

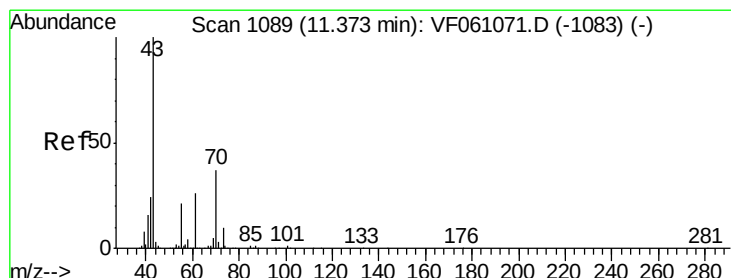
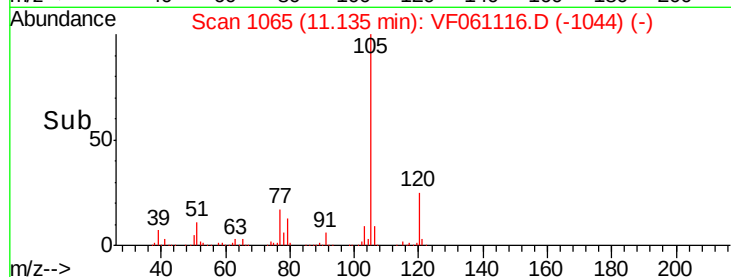
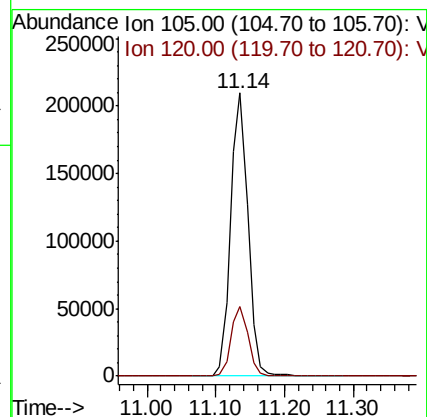
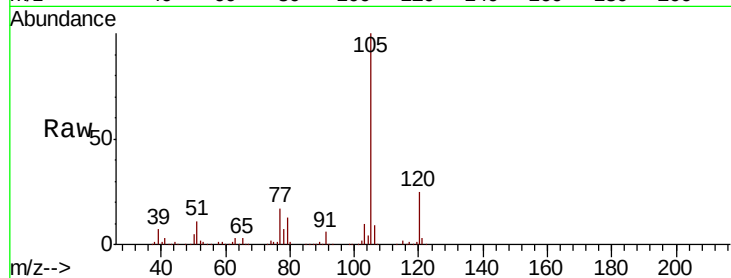
120 24.6 13.0 39.0

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#74

N-ethyl acetate

Concen: 48.560 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion: 43 Resp: 65272

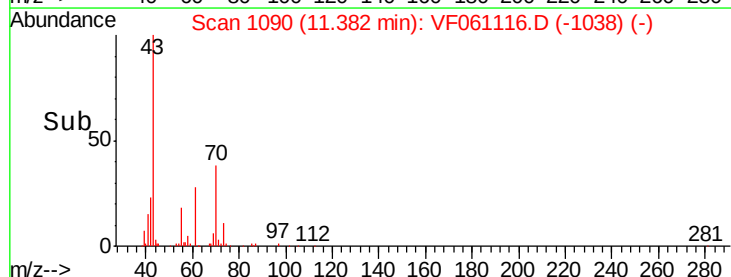
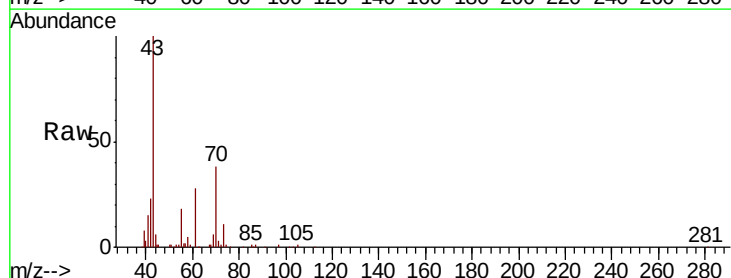
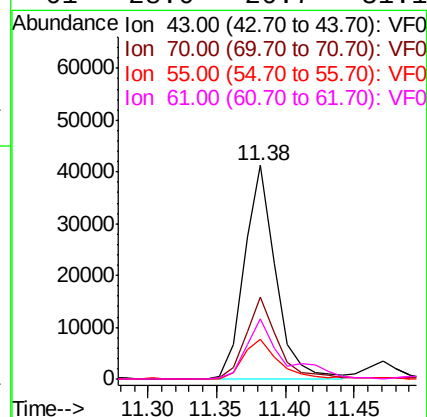
Ion Ratio Lower Upper

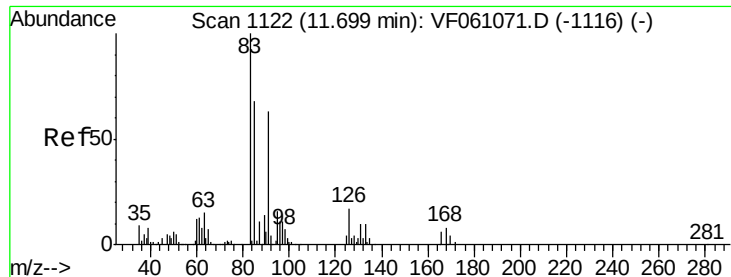
43 100

70 38.3 29.2 43.8

55 18.3 16.5 24.7

61 28.0 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 71.531 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

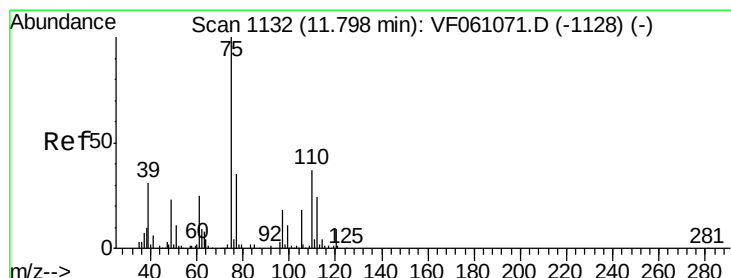
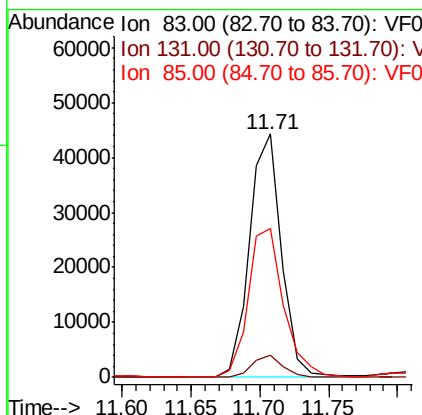
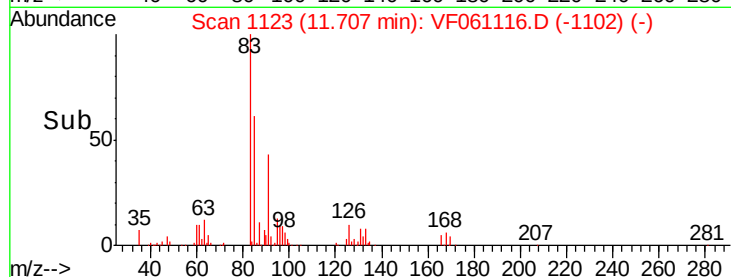
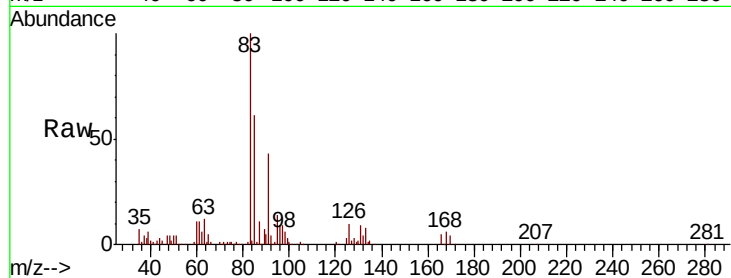
ClientSampleId :

P001-SD006-0612-01MS

Tot Ion:	83	Resp:	71875
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.8	14.3
85	61.4	33.9	101.6

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#76

1,2,3-Trichloropropane

Concen: 78.144 ug/l

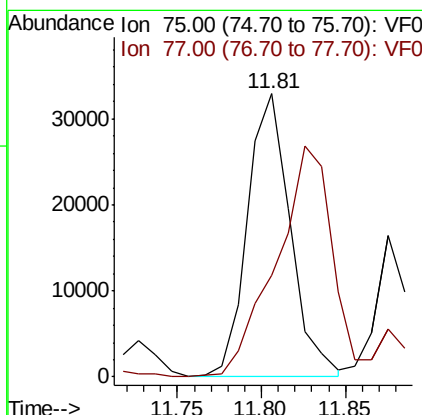
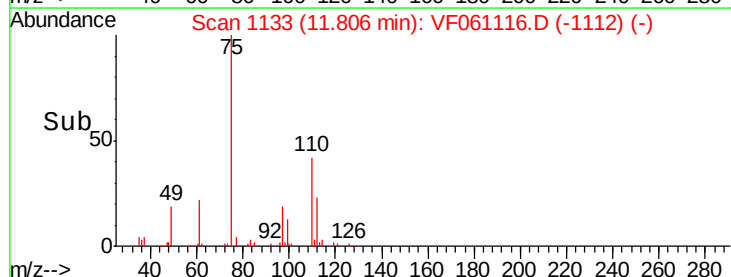
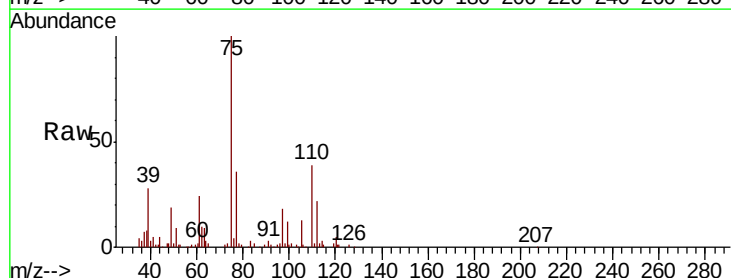
RT: 11.81 min Scan# 1133

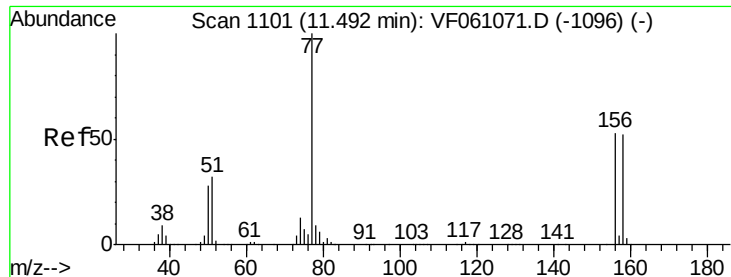
Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Tgt Ion:	75	Resp:	58434
Ion Ratio	Lower	Upper	
75	100		
77	36.1	17.6	52.9





#77

Bromobenzene

Concen: 59.112 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 156 Resp: 77039

Ion Ratio Lower Upper

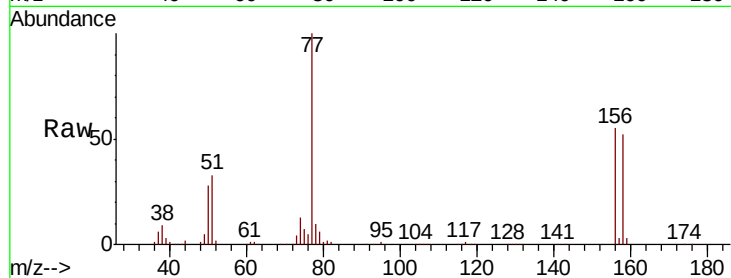
156 100

77 180.8 93.8 281.4

158 94.7 48.9 146.8

Manual Integrations
APPROVED

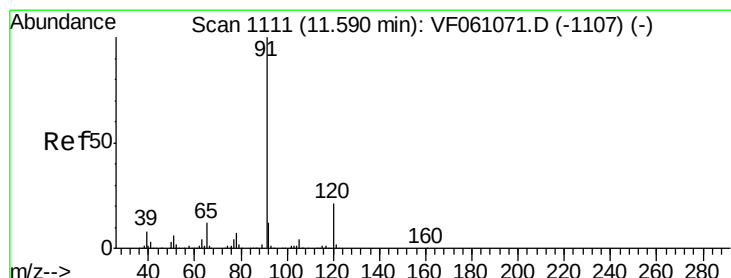
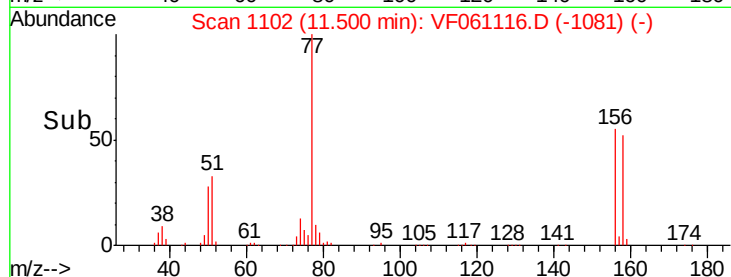
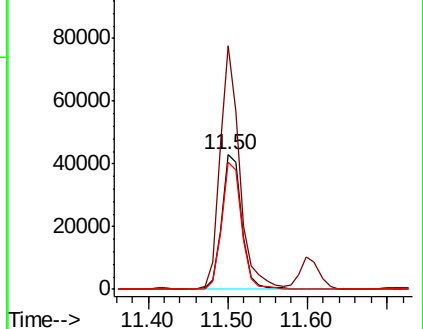
apatel
12/21/2018 12:23:39 PM



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: 60.378 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061116.D

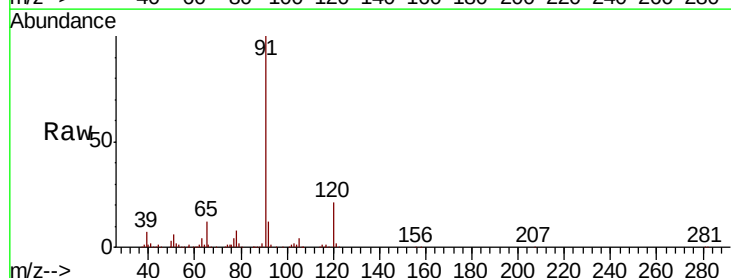
Acq: 20 Dec 2018 19:07

Tgt Ion: 91 Resp: 402755

Ion Ratio Lower Upper

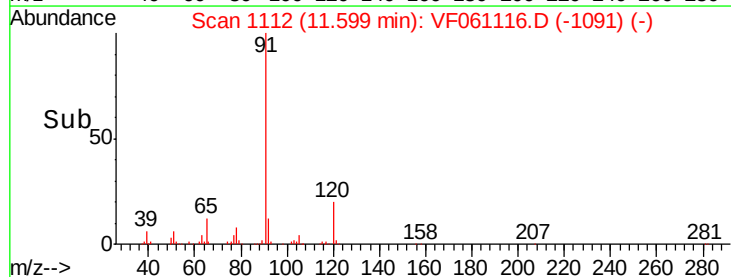
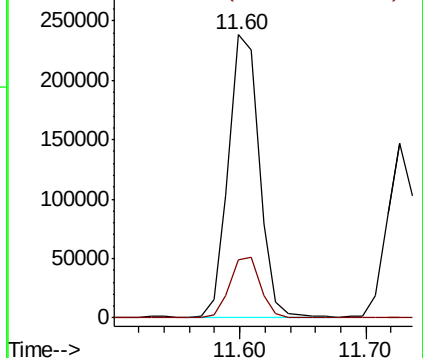
91 100

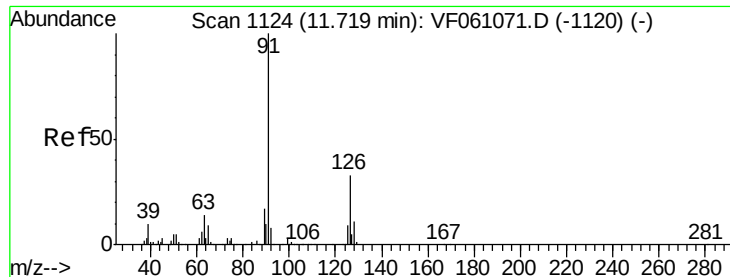
120 20.5 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 55.454 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 91 Resp: 230314

Ion Ratio Lower Upper

91 100

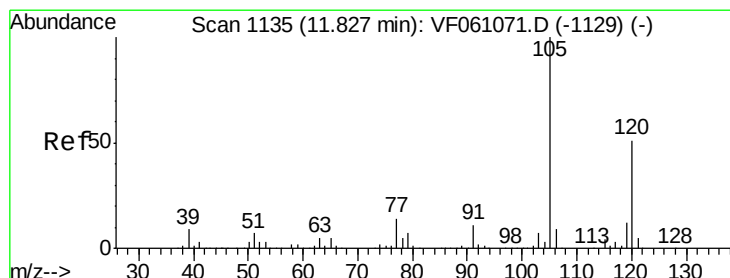
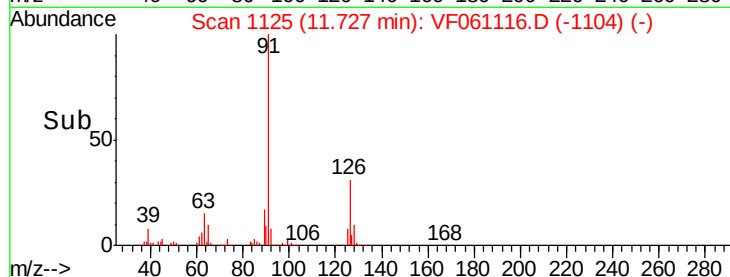
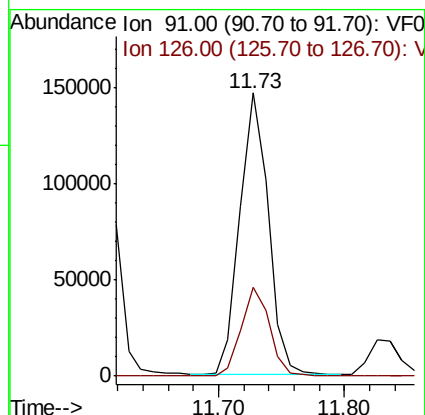
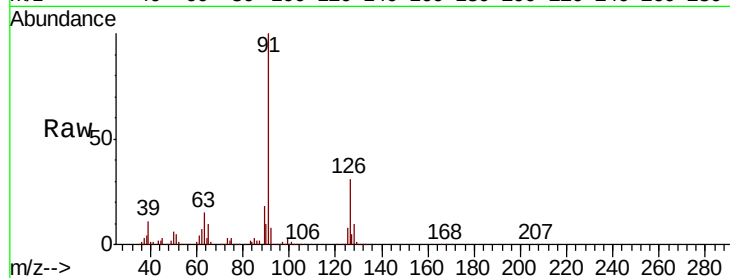
126 31.2 16.4 49.1

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#80

1,3,5-Trimethylbenzene

Concen: 59.990 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061116.D

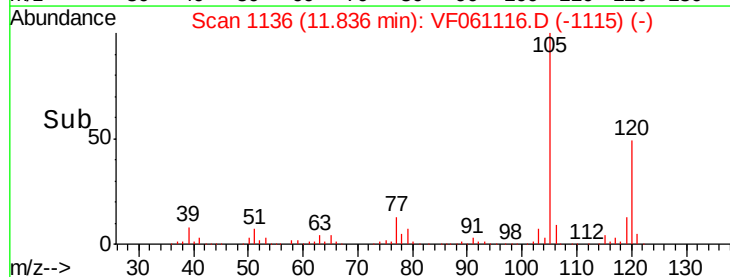
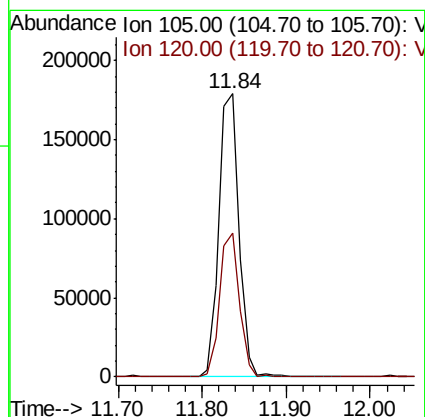
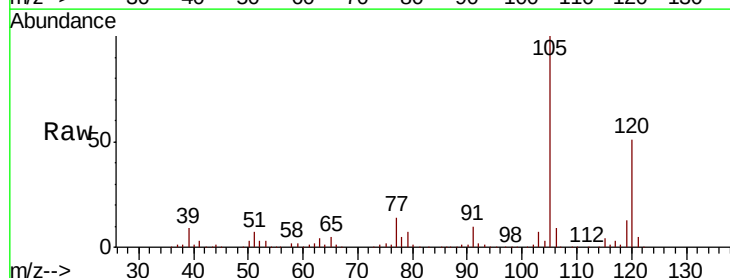
Acq: 20 Dec 2018 19:07

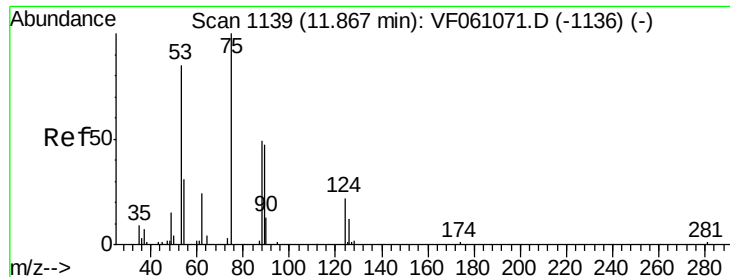
Tgt Ion: 105 Resp: 299061

Ion Ratio Lower Upper

105 100

120 50.6 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 70.573 ug/l m

RT: 11.88 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF061116.D

Acq: 20 Dec 2018 19:07

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0612-01MS

Tot Ion: 75 Resp: 22677

Ion Ratio Lower Upper

75 100

53 76.0 74.1 111.1

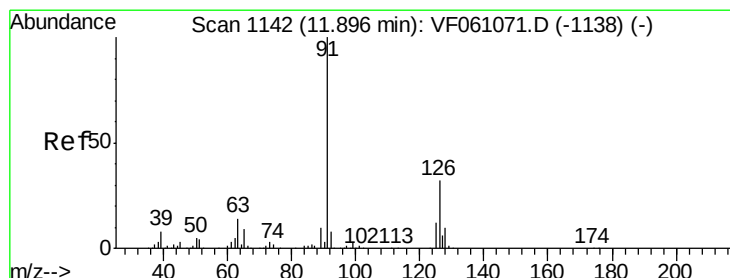
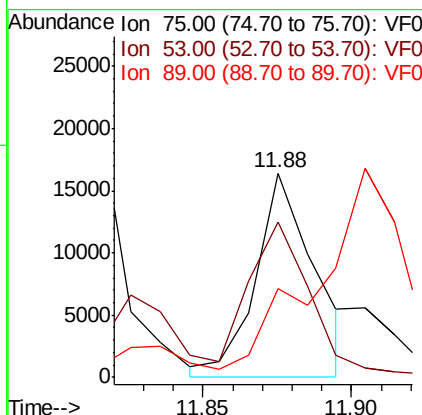
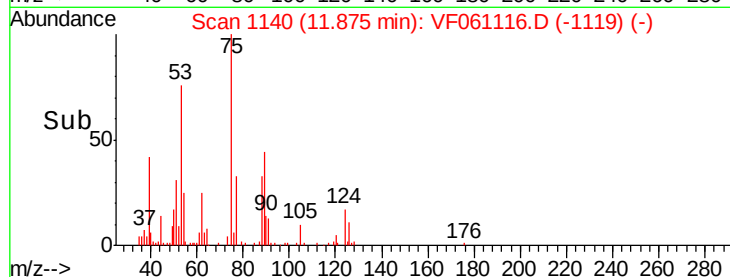
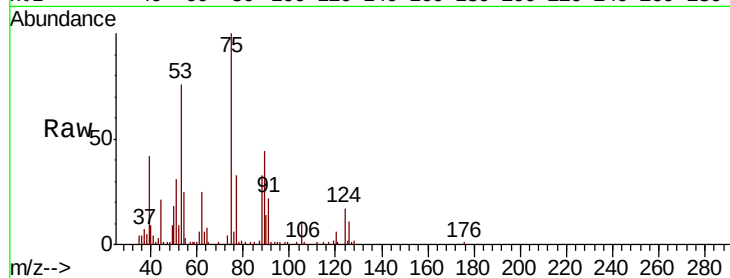
89 43.6 42.6 64.0

Manual Integrations

APPROVED

apatel

12/21/2018 12:23:39 PM



#82

4-Chlorotoluene

Concen: 54.213 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF061116.D

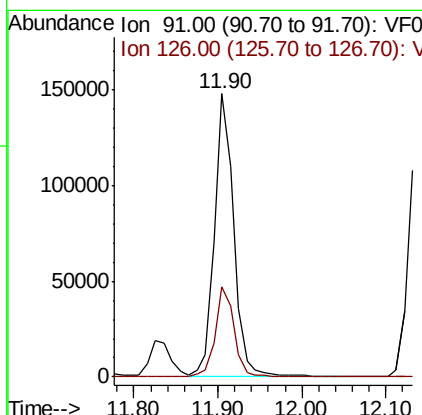
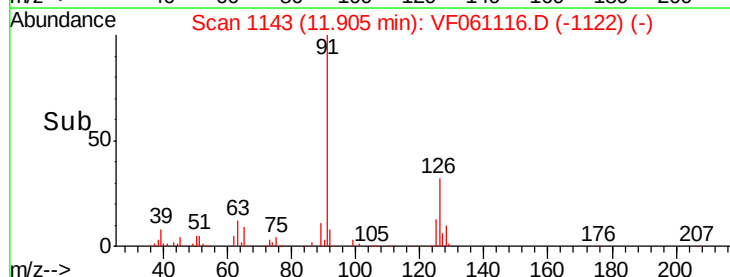
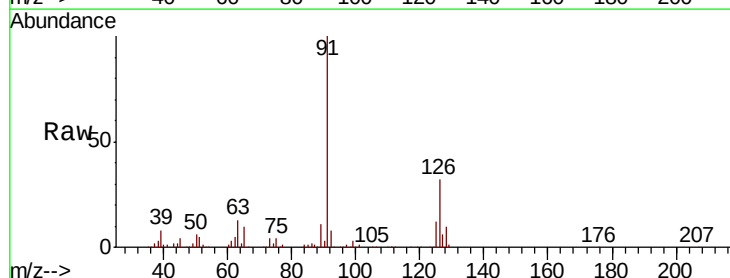
Acq: 20 Dec 2018 19:07

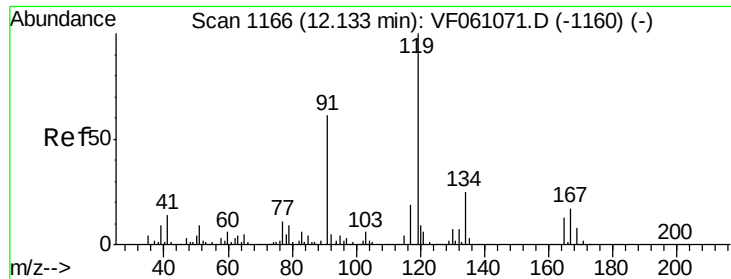
Tgt Ion: 91 Resp: 232921

Ion Ratio Lower Upper

91 100

126 31.8 16.0 47.9





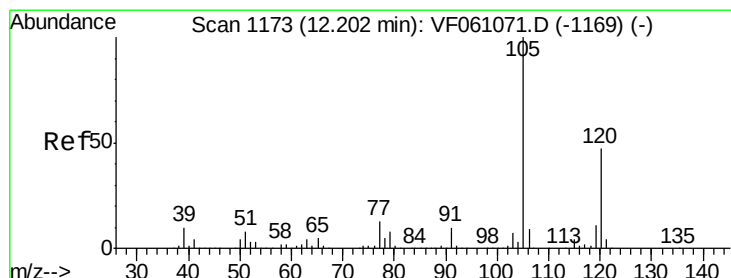
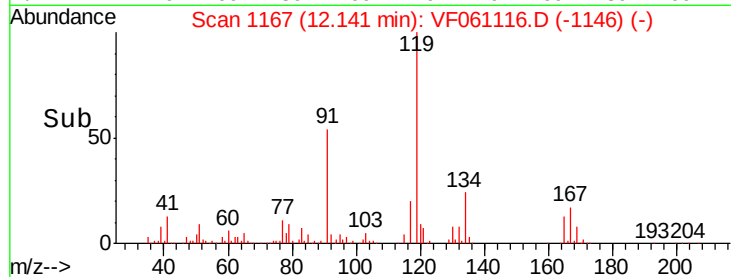
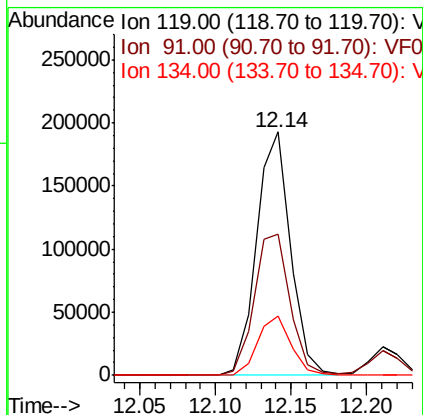
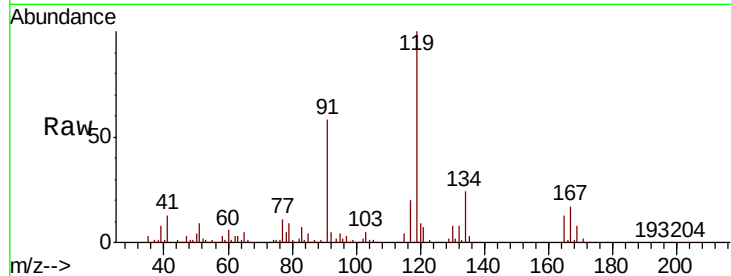
#83
 tert-Butylbenzene
 Concen: 59.170 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	303538		
91	58.0		30.5	91.5
134	24.5		12.4	37.4

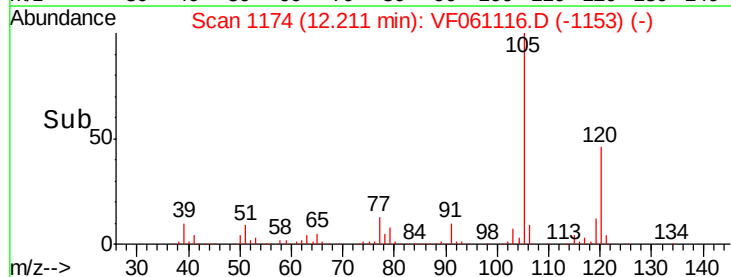
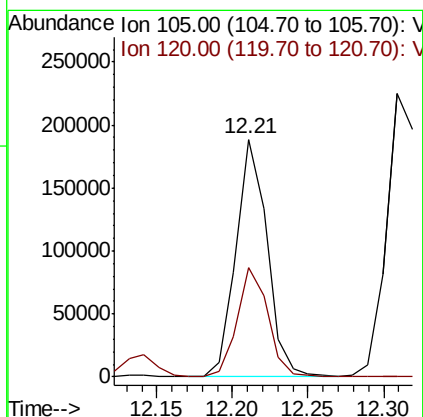
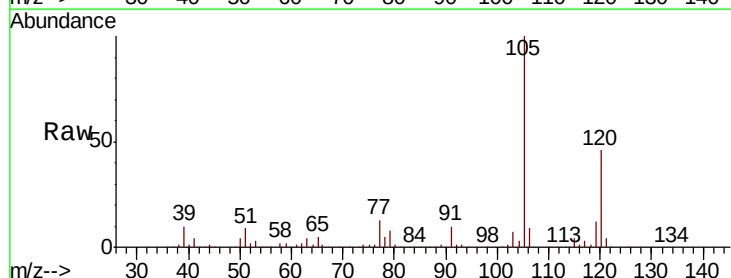
Manual Integrations
 APPROVED

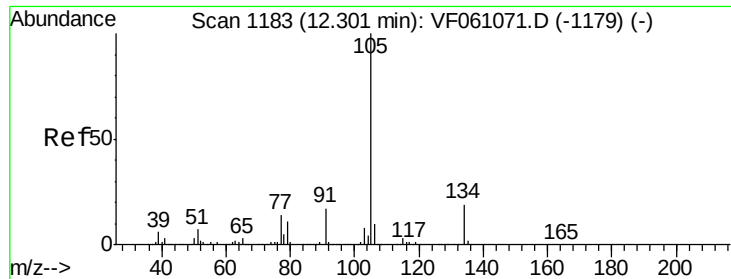
apatel
 12/21/2018 12:23:39 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 54.470 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	270788		
120	45.8		23.6	71.0





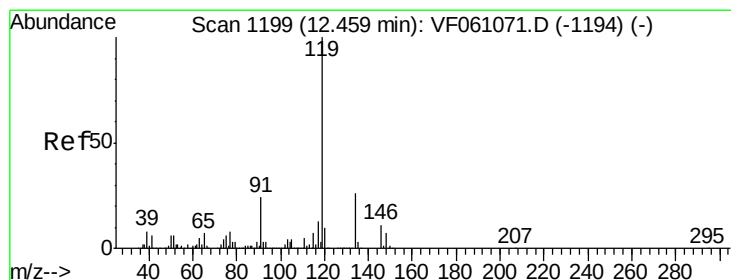
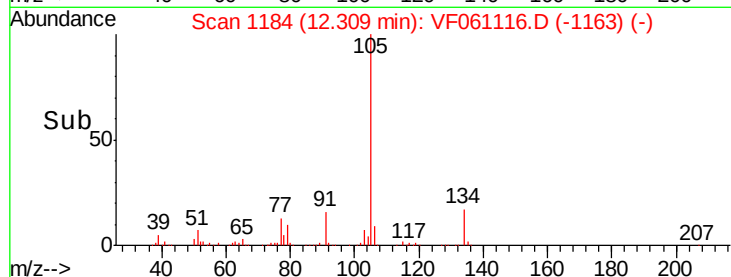
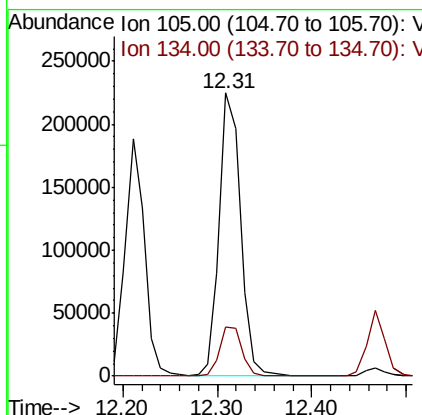
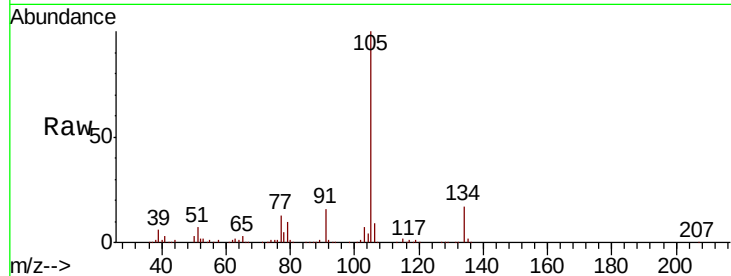
#85
 sec-Butylbenzene
 Concen: 52.954 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
105	100	354506		
134	17.2	9.4	28.2	

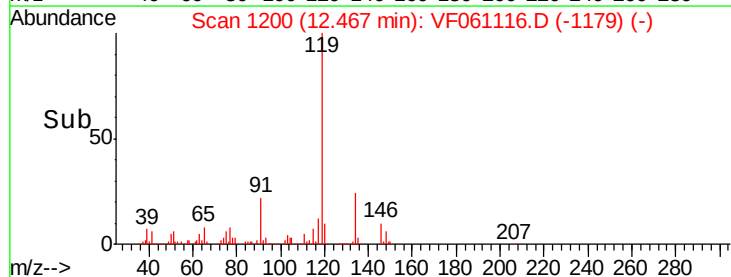
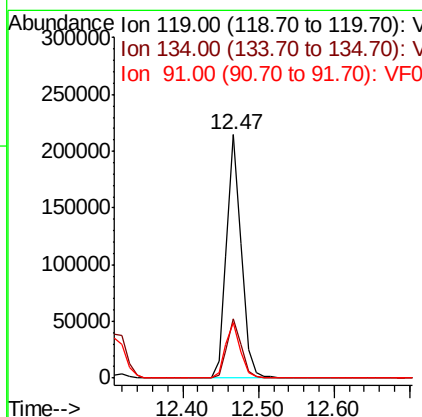
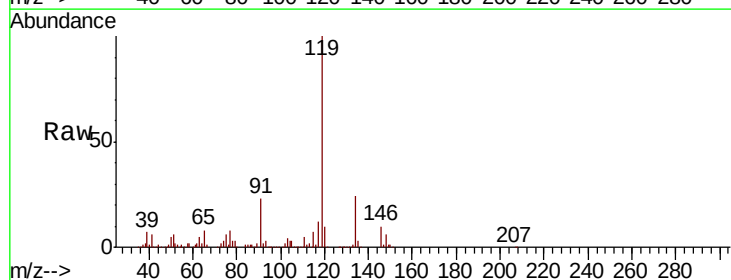
Manual Integrations
 APPROVED

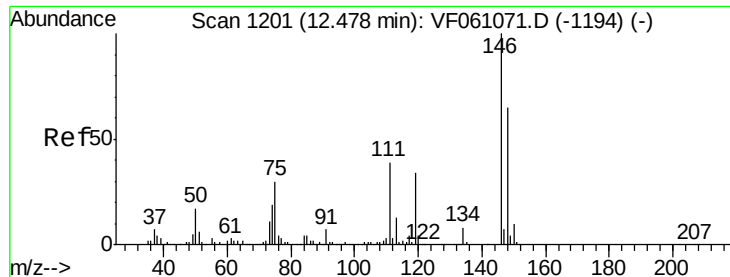
apatel
 12/21/2018 12:23:39 PM



#86
 p-Isopropyltoluene
 Concen: 52.584 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	292199		
134	24.4	12.8	38.4	
91	22.6	12.2	36.6	





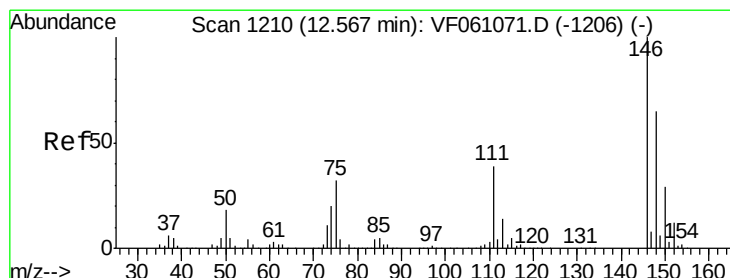
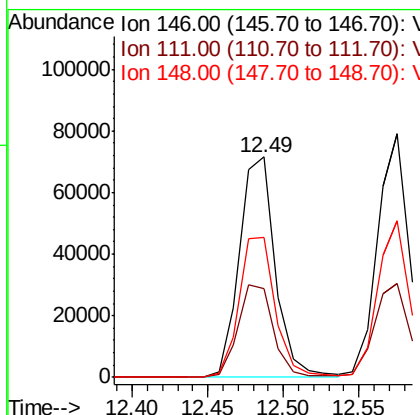
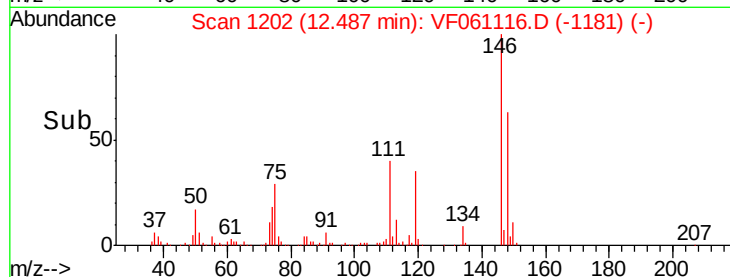
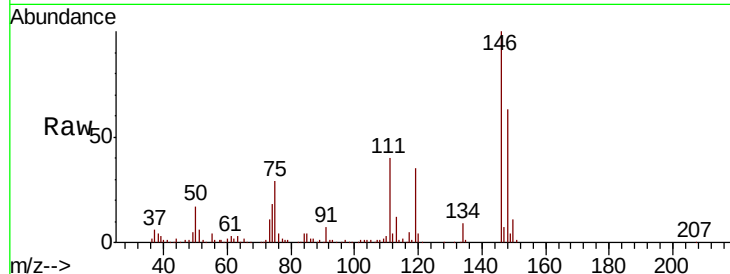
#87
 1,3-Dichlorobenzene
 Concen: 56.180 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	19.3	57.9
148	63.3	32.4	97.2

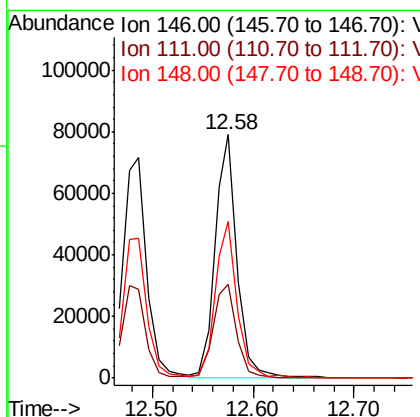
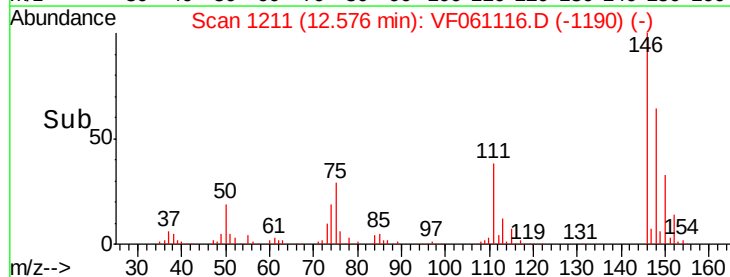
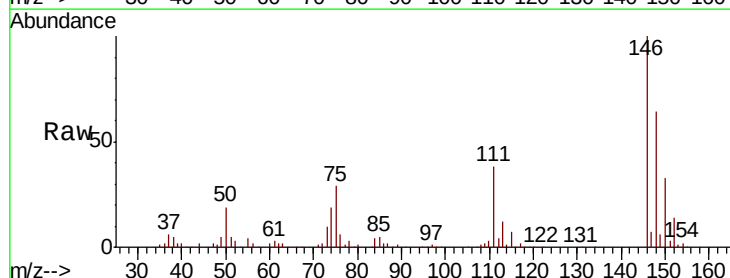
Manual Integrations
 APPROVED

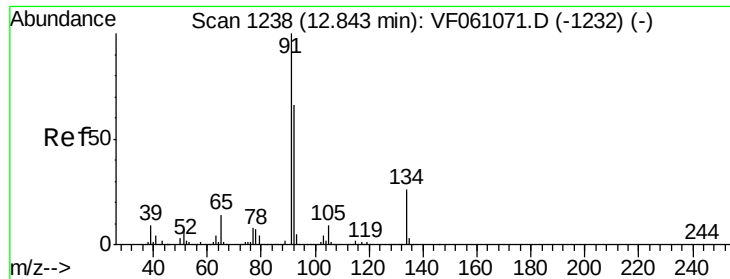
apatel
 12/21/2018 12:23:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.902 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.4	58.4
148	64.4	32.4	97.0





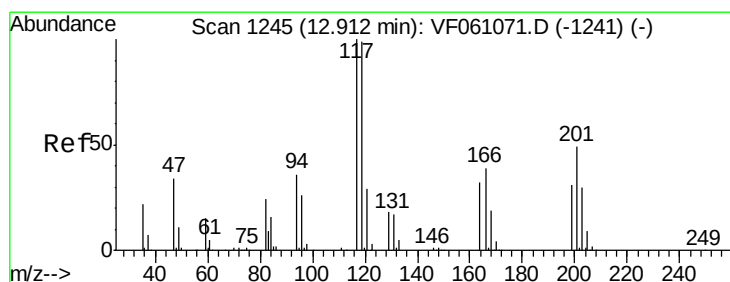
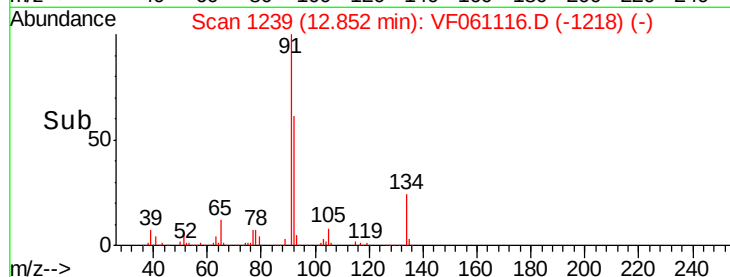
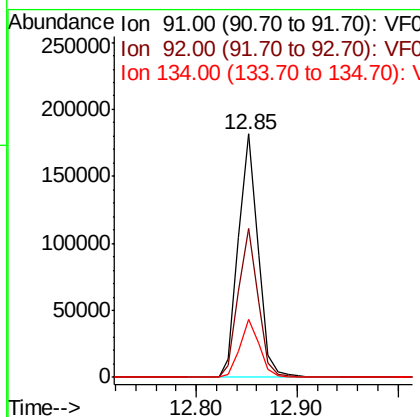
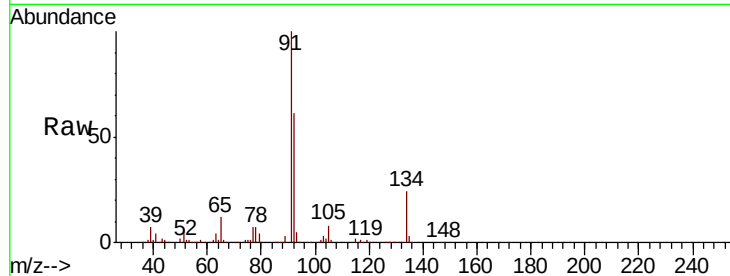
#89
n-Butylbenzene
Concen: 42.546 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.2	32.8	98.4
134	23.6	13.2	39.5

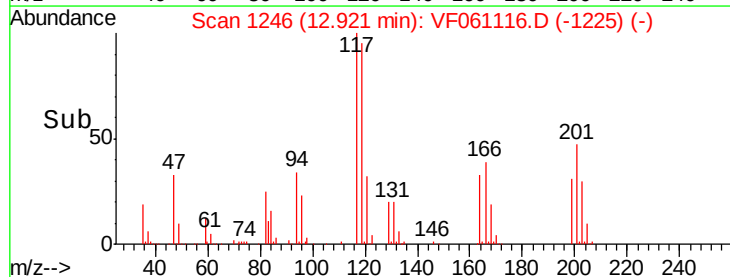
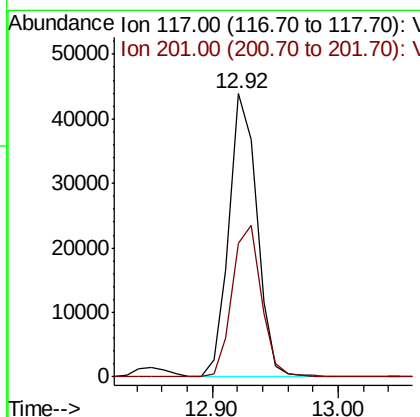
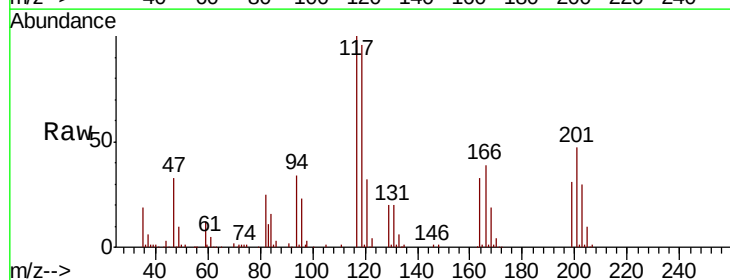
Manual Integrations
APPROVED

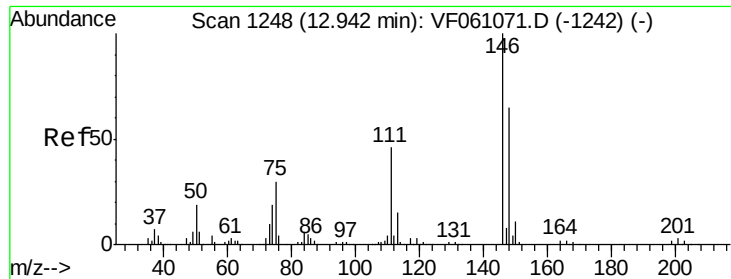
apatel
12/21/2018 12:23:39 PM



#90
Hexachloroethane
Concen: 49.212 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	47.2	24.9	74.8





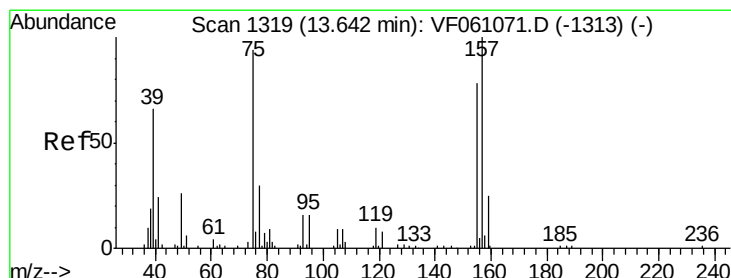
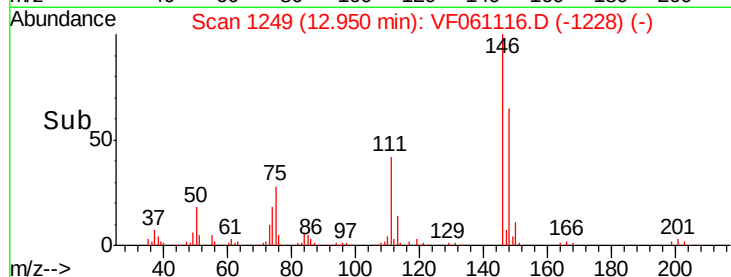
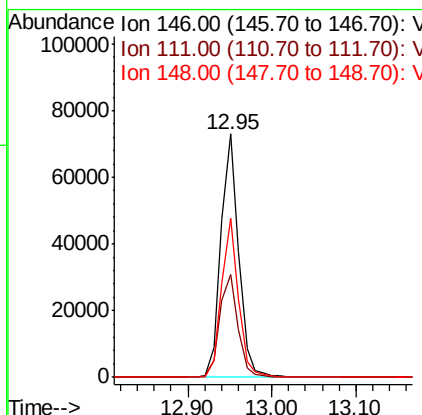
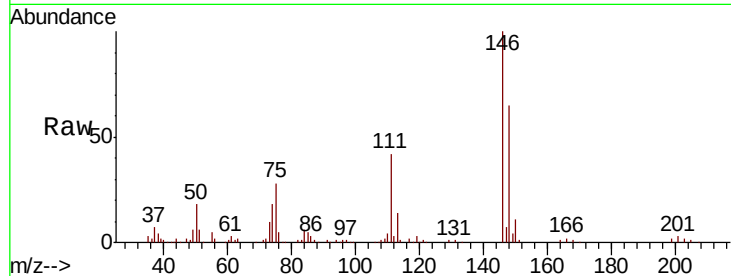
#91
 1,2-Dichlorobenzene
 Concen: 46.256 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	23.2	69.5
148	65.3	32.4	97.0

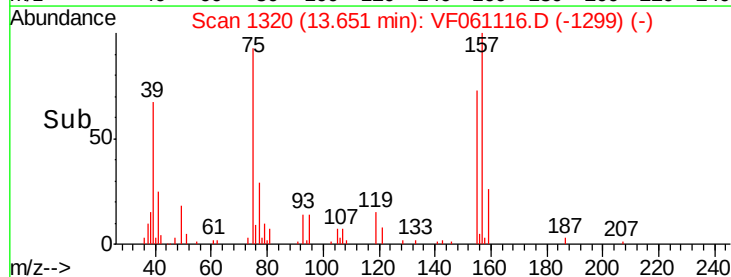
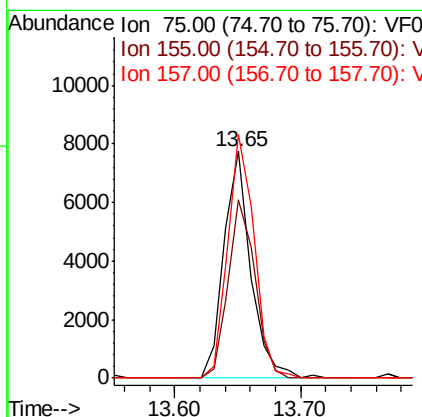
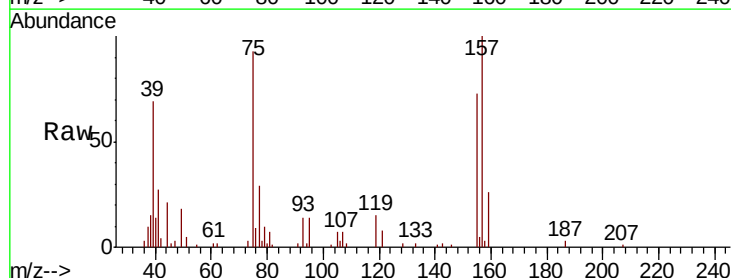
Manual Integrations
 APPROVED

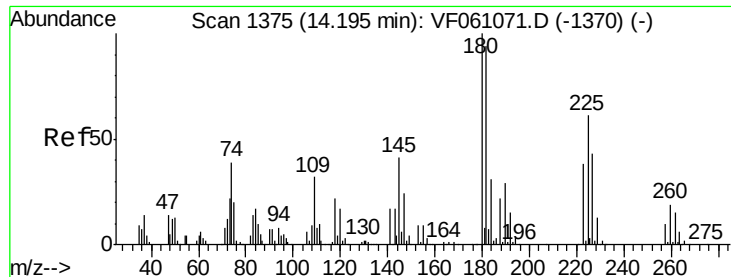
apatel
 12/21/2018 12:23:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 61.773 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.8	41.5	124.5
157	107.5	53.2	159.6





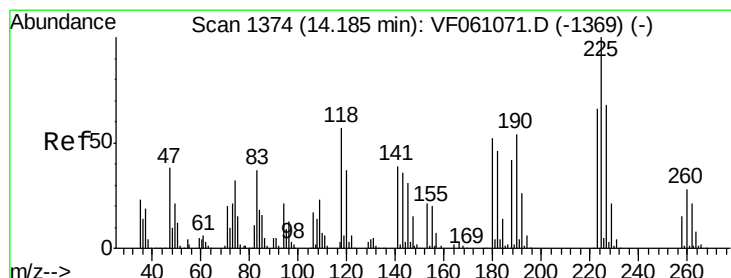
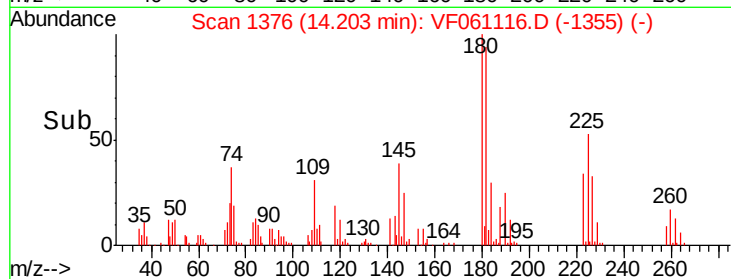
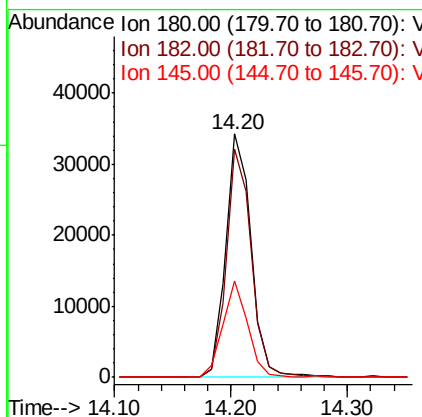
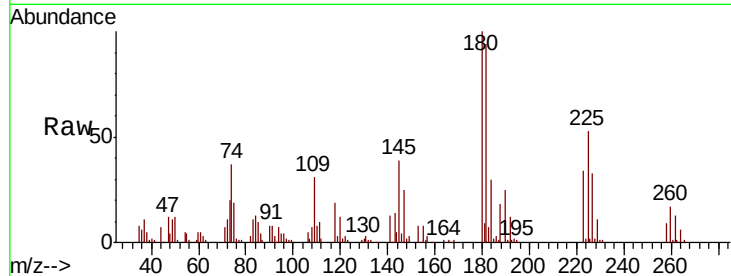
#93
 1,2,4-Trichlorobenzene
 Concen: 31.391 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	51869		
182	94.0	46.9	140.6	
145	39.5	20.5	61.6	

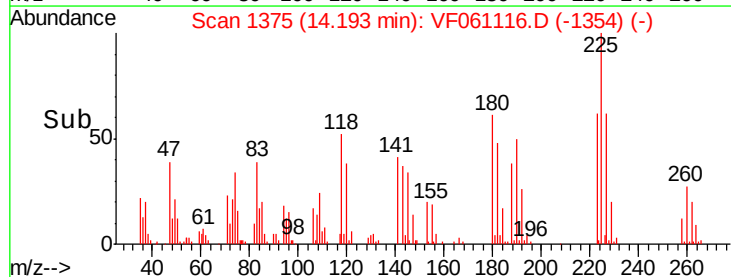
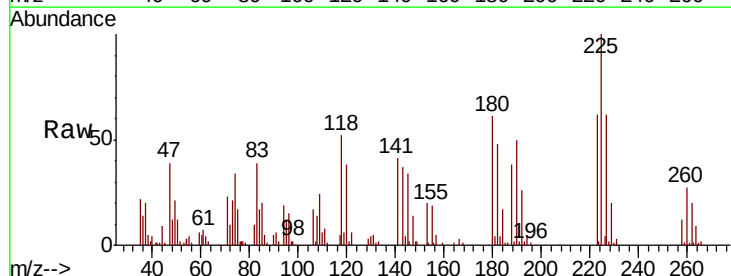
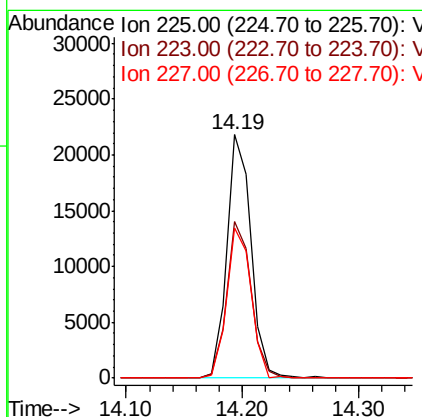
Manual Integrations
 APPROVED

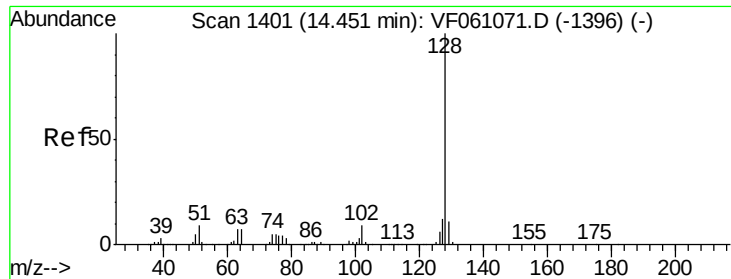
apatel
 12/21/2018 12:23:39 PM



#94
 Hexachlorobutadiene
 Concen: 29.727 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061116.D
 Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	31285		
223	64.3	32.8	98.3	
227	61.6	34.0	101.8	





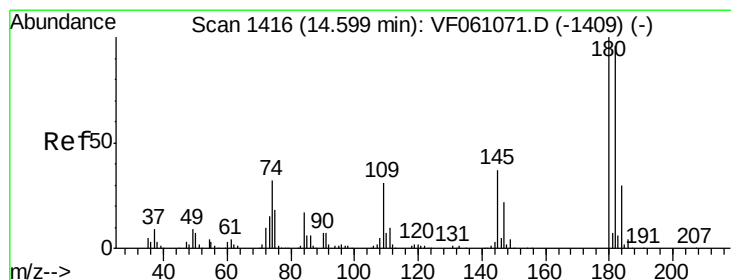
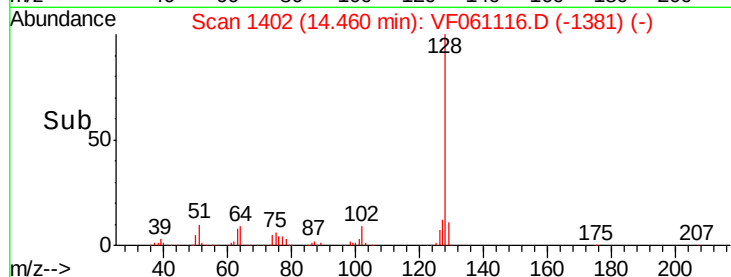
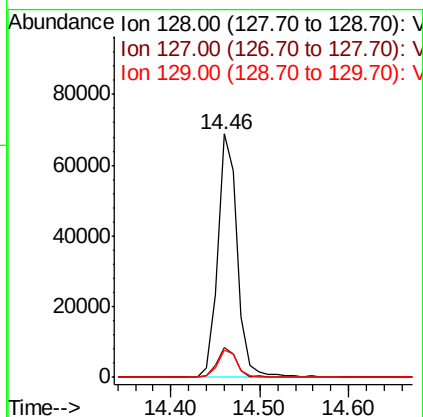
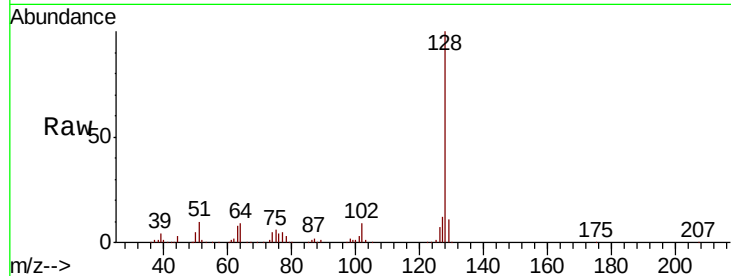
#95
Naphthalene
Concen: 35.219 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0612-01MS

Tot Ion	Ratio	Resp	Lower	Upper
128	100	106264		
127	12.3		9.4	14.2
129	11.1		8.8	13.2

Manual Integrations
APPROVED

apatel
12/21/2018 12:23:39 PM



#96
1,2,3-Trichlorobenzene
Concen: 27.684 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF061116.D
Acq: 20 Dec 2018 19:07

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	42288		
182	99.6		47.9	143.8
145	36.8		18.6	55.8

