

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090618\
 Data File : VF060201.D
 Acq On : 6 Sep 2018 13:38
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

apatel
 9/7/2018 10:49:53 AM

Quant Time: Sep 07 02:19:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 01:56:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	161536	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	224774	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	240113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	148277	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	203742	72.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	145.18%	
35) Dibromofluoromethane	4.29	113	156392	71.29	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	142.58%	
50) Toluene-d8	7.71	98	384151	70.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.72%	
62) 4-Bromofluorobenzene	11.50	95	209300	67.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	201711	68.17	ug/l	97
3) Chloromethane	1.07	50	101927	62.71	ug/l	100
4) Vinyl Chloride	1.12	62	84584	68.47	ug/l	95
5) Bromomethane	1.32	94	72893	65.50	ug/l	97
6) Chloroethane	1.40	64	56835	70.60	ug/l	98
7) Trichlorofluoromethane	1.49	101	239365	68.85	ug/l	96
8) Diethyl Ether	1.70	74	36315	70.10	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.86	101	119650	70.02	ug/l	92
10) Methyl Iodide	1.92	142	91479	61.15	ug/l #	98
11) Tert butyl alcohol	2.69	59	42102	337.94	ug/l #	88
12) 1,1-Dichloroethene	1.82	96	78238	67.93	ug/l	99
13) Acrolein	2.09	56	18783	284.27	ug/l #	81
14) Allyl chloride	2.19	41	115648	66.92	ug/l	96
15) Acrylonitrile	3.07	53	73086	344.35	ug/l #	92
16) Acetone	2.35	43	193854	317.45	ug/l	99
17) Carbon Disulfide	1.84	76	248646	73.83	ug/l	98
18) Methyl Acetate	2.45	43	73735	74.65	ug/l	95
19) Methyl tert-butyl Ether	2.53	73	269099	70.77	ug/l	100
20) Methylene Chloride	2.28	84	86104	46.77	ug/l	88
21) trans-1,2-Dichloroethene	2.40	96	86200	73.49	ug/l	99
22) Diisopropyl ether	2.93	45	311700	71.80	ug/l #	97
23) Vinyl Acetate	3.33	43	677671	446.14	ug/l	99
24) 1,1-Dichloroethane	3.00	63	197256	69.89	ug/l	99
25) 2-Butanone	4.51	43	256411	329.78	ug/l	95
26) 2,2-Dichloropropane	3.75	77	224367	65.66	ug/l	96
27) cis-1,2-Dichloroethene	3.63	96	106591	70.09	ug/l	98
28) Bromochloromethane	3.88	49	61454	64.59	ug/l	92
29) Tetrahydrofuran	4.26	42	92241	356.35	ug/l	98
30) Chloroform	4.03	83	302378	72.56	ug/l	100
31) Cyclohexane	3.85	56	128374	67.34	ug/l	97
32) 1,1,1-Trichloroethane	4.27	97	289682	70.04	ug/l	98
36) 1,1-Dichloropropene	4.45	75	183554	70.36	ug/l	96
37) Ethyl Acetate	4.29	43	96478	67.21	ug/l #	66
38) Carbon Tetrachloride	4.16	117	264915	72.62	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090618\
 Data File : VF060201.D
 Acq On : 6 Sep 2018 13:38
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

apatel
 9/7/2018 10:49:53 AM

Quant Time: Sep 07 02:19:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 01:56:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	158354	71.85	ug/l	96
40) Benzene	4.80	78	329706	71.05	ug/l	99
41) Methacrylonitrile	4.92	41	47939	70.38	ug/l	95
42) 1,2-Dichloroethane	5.11	62	253717	74.46	ug/l	100
43) Isopropyl Acetate	7.11	43	118099	76.77	ug/l	94
44) Trichloroethene	5.67	130	129671	67.80	ug/l	94
45) 1,2-Dichloropropane	6.40	63	92566	69.75	ug/l	92
46) Dibromomethane	6.25	93	89128	75.15	ug/l	93
47) Bromodichloromethane	6.54	83	244528	76.33	ug/l	95
48) Methyl methacrylate	6.87	41	91668	75.26	ug/l	95
49) 1,4-Dioxane	6.87	88	10870	395.26	ug/l #	88
51) 4-Methyl-2-Pentanone	8.40	43	509993	373.11	ug/l	98
52) Toluene	7.78	92	238534	66.28	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	195595	73.17	ug/l	97
54) cis-1,3-Dichloropropene	7.45	75	196195	71.53	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	99283	73.38	ug/l	98
56) Ethyl methacrylate	8.75	69	120231	78.92	ug/l	94
57) 1,3-Dichloropropane	9.00	76	171270	71.90	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.78	63	54160	333.52	ug/l	100
59) 2-Hexanone	9.63	43	385736	374.72	ug/l	100
60) Dibromochloromethane	8.86	129	175206	78.58	ug/l	91
61) 1,2-Dibromoethane	9.13	107	123959	76.80	ug/l	91
64) Tetrachloroethene	8.30	164	172969	61.93	ug/l	99
65) Chlorobenzene	9.94	112	341462	69.00	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	150890	69.10	ug/l	99
67) Ethyl Benzene	10.03	91	625399	68.15	ug/l	98
68) m/p-Xylenes	10.26	106	419370	136.37	ug/l	98
69) o-Xylene	10.82	106	224560	68.04	ug/l	96
70) Styrene	10.90	104	345628	69.24	ug/l	96
71) Bromoform	10.88	173	100855	79.08	ug/l #	95
73) Isopropylbenzene	11.23	105	710277	69.46	ug/l	97
74) N-amyl acetate	11.46	43	153977	90.47	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	118291	77.02	ug/l	97
76) 1,2,3-Trichloropropane	11.89	75	118102	72.71	ug/l	80
77) Bromobenzene	11.59	156	177587	66.57	ug/l	87
78) n-propylbenzene	11.68	91	826248	67.71	ug/l	98
79) 2-Chlorotoluene	11.81	91	504218	68.31	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	628645	69.82	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	35003m	66.78	ug/l	
82) 4-Chlorotoluene	11.99	91	561974	68.67	ug/l	99
83) tert-Butylbenzene	12.21	119	558723	68.49	ug/l	97
84) 1,2,4-Trimethylbenzene	12.28	105	635770	69.28	ug/l	99
85) sec-Butylbenzene	12.38	105	733648	65.49	ug/l	99
86) p-Isopropyltoluene	12.54	119	675560	67.40	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	314762	64.78	ug/l	97
88) 1,4-Dichlorobenzene	12.65	146	326970	68.18	ug/l	98
89) n-Butylbenzene	12.91	91	674828	69.84	ug/l	98
90) Hexachloroethane	12.99	117	147249	72.22	ug/l	99
91) 1,2-Dichlorobenzene	13.02	146	315938	68.14	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.71	75	32152	82.10	ug/l	94

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF090618\
Data File : VF060201.D
Acq On : 6 Sep 2018 13:38
Operator : VA/AP
Sample : VSTDICC075
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC075

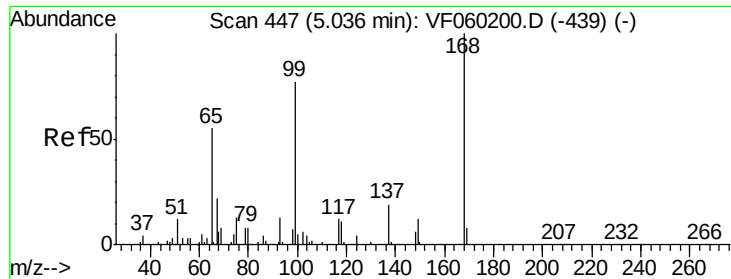
Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM

Quant Time: Sep 07 02:19:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 07 01:56:36 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	256877	71.85	ug/l	99
94) Hexachlorobutadiene	14.25	225	183486	71.73	ug/l	98
95) Naphthalene	14.52	128	388674	77.77	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	248337	74.19	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 447

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 161536

Ion Ratio Lower Upper

168 100

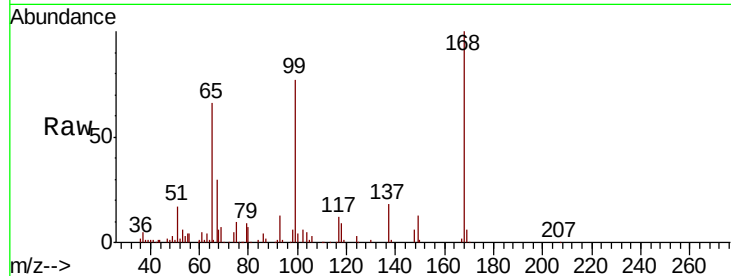
99 76.5 61.8 92.6

Manual Integrations

APPROVED

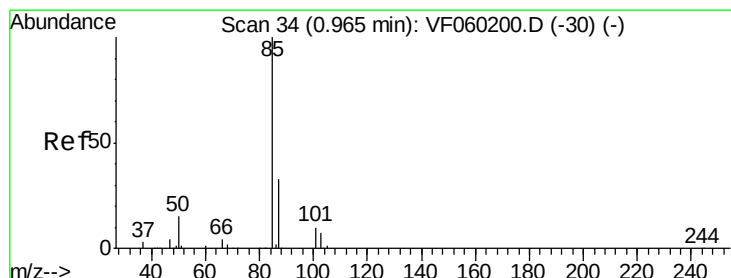
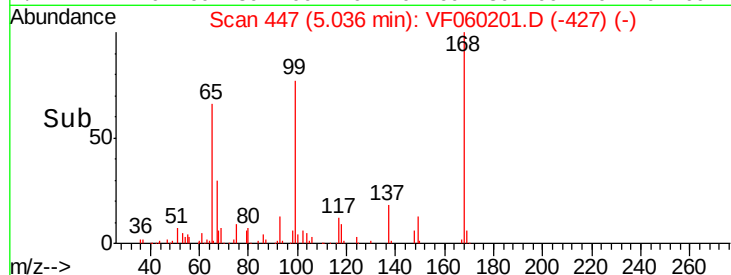
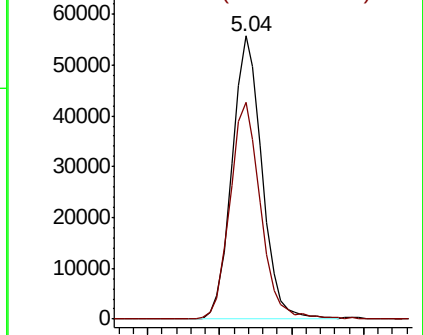
apatel

9/7/2018 10:49:53 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 68.17 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF060201.D

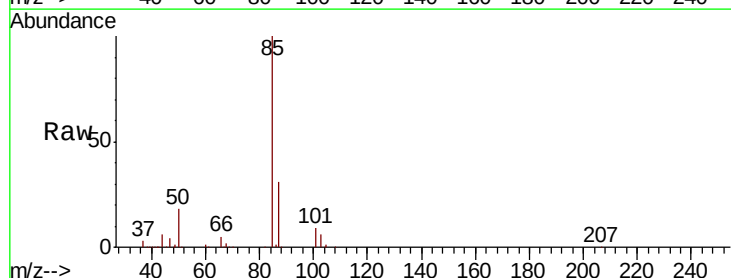
Acq: 6 Sep 2018 13:38

Tgt Ion: 85 Resp: 201711

Ion Ratio Lower Upper

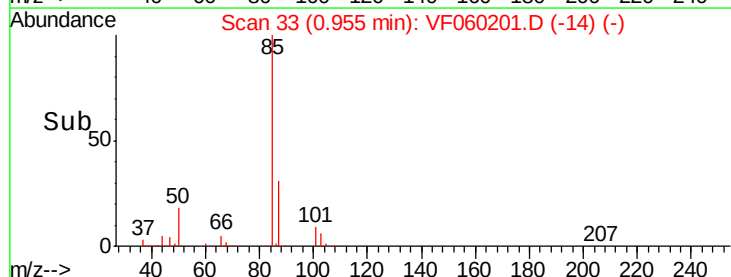
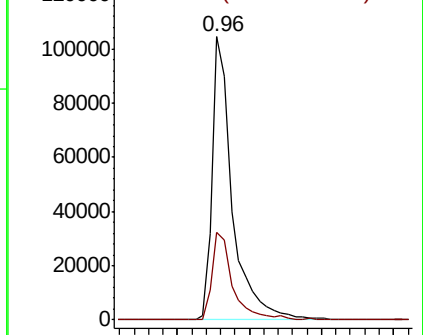
85 100

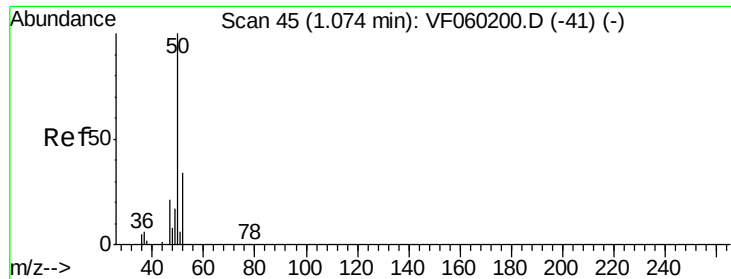
87 30.9 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 62.71 ug/l

RT: 1.07 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleID :

VSTDIC075

Tot Ion: 50 Resp: 101927

Ion Ratio Lower Upper

50 100

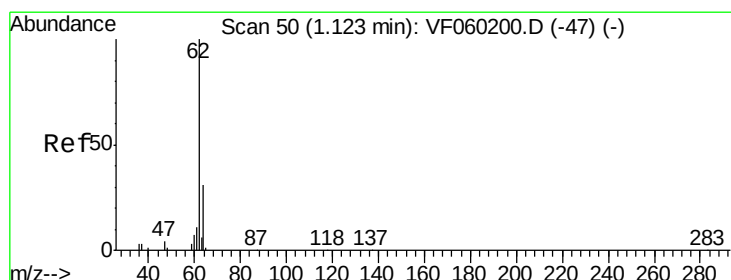
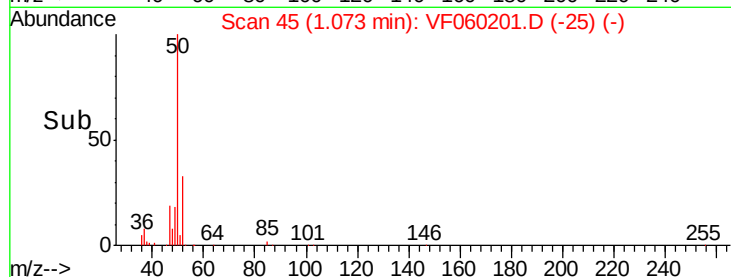
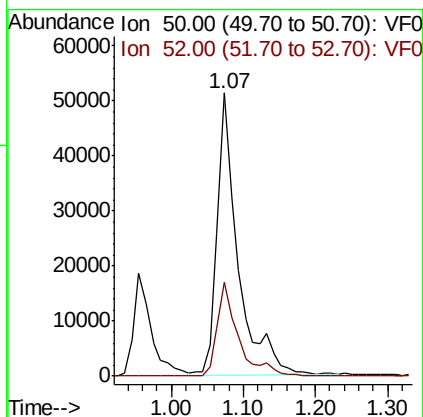
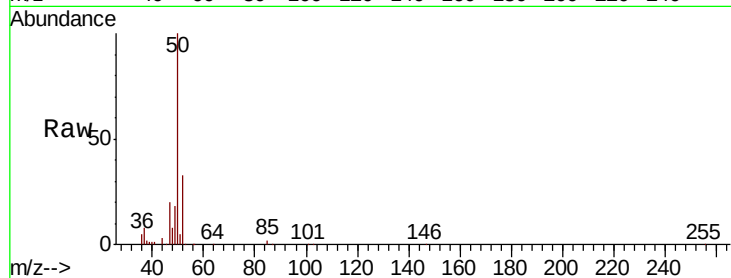
52 33.3 26.9 40.3

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#4

Vinyl Chloride

Concen: 68.47 ug/l

RT: 1.12 min Scan# 50

Delta R.T. -0.00 min

Lab File: VF060201.D

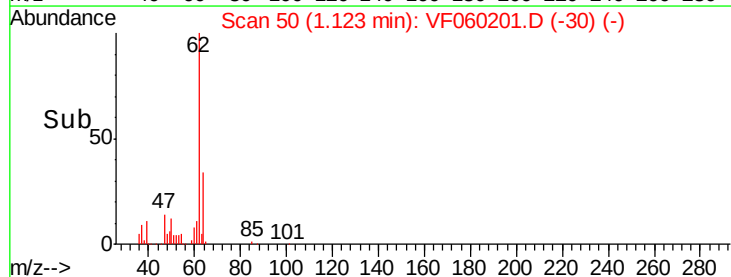
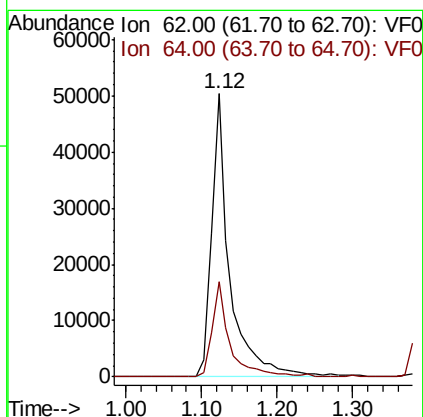
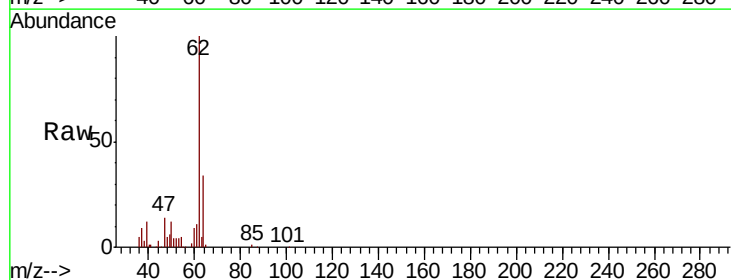
Acq: 6 Sep 2018 13:38

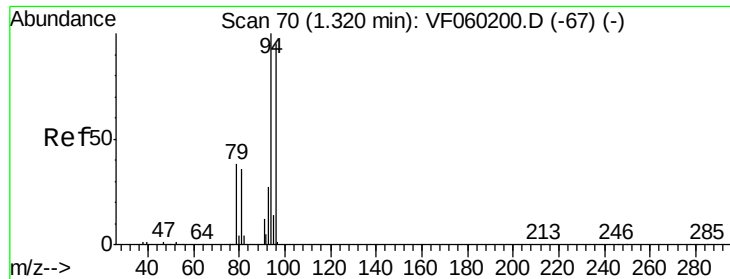
Tgt Ion: 62 Resp: 84584

Ion Ratio Lower Upper

62 100

64 33.9 24.8 37.2





#5

Bromomethane

Concen: 65.50 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 72893

Ion Ratio Lower Upper

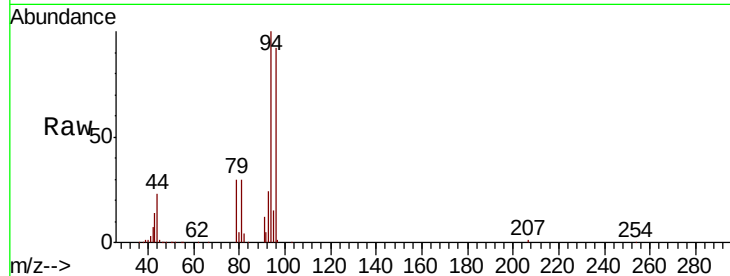
94 100

96 92.2 75.8 113.6

Manual Integrations
APPROVED

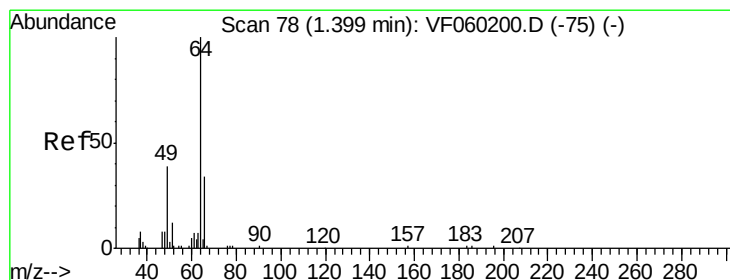
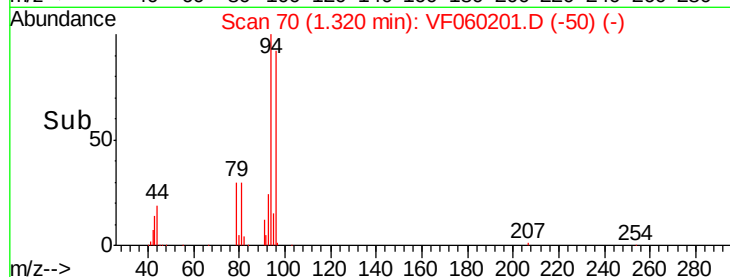
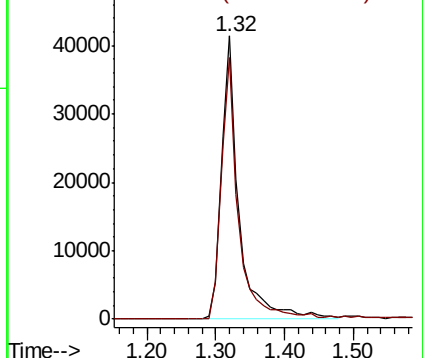
apatel

9/7/2018 10:49:53 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 70.60 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF060201.D

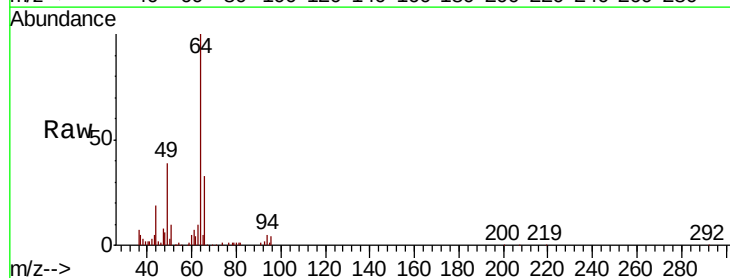
Acq: 6 Sep 2018 13:38

Tgt Ion: 64 Resp: 56835

Ion Ratio Lower Upper

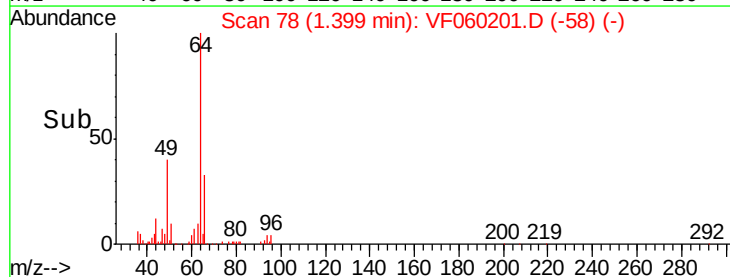
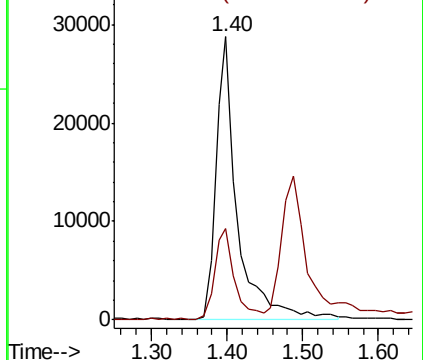
64 100

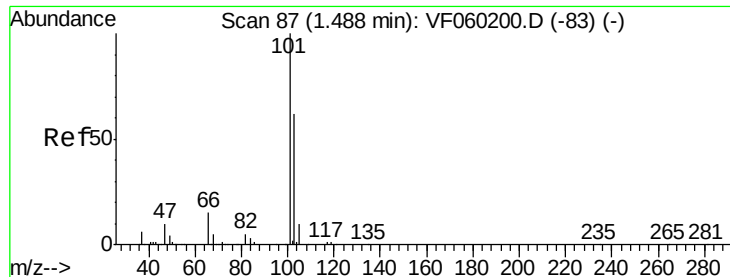
66 32.5 27.1 40.7



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 68.85 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:101 Resp: 239365

Ion Ratio Lower Upper

101 100

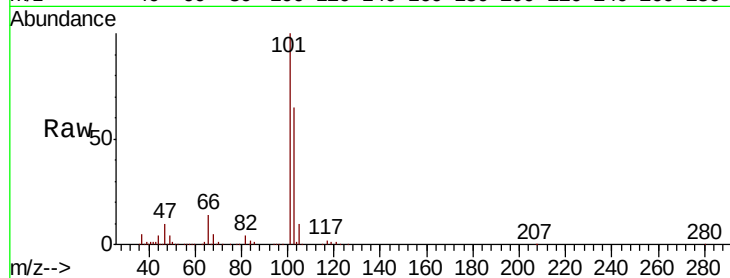
103 65.0 49.5 74.3

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

120000

100000

80000

60000

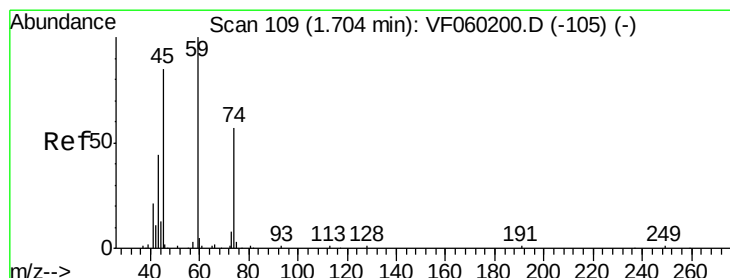
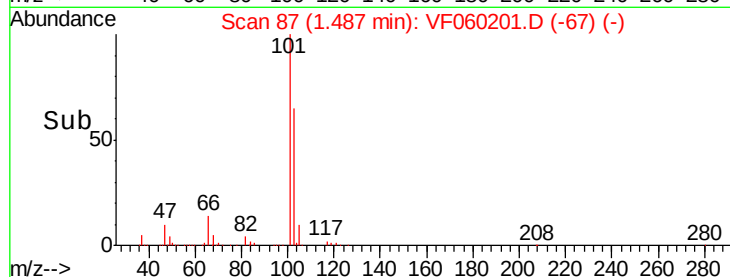
40000

20000

0

1.49

Time-->



#8

Diethyl Ether

Concen: 70.10 ug/l

RT: 1.70 min Scan# 109

Delta R.T. -0.00 min

Lab File: VF060201.D

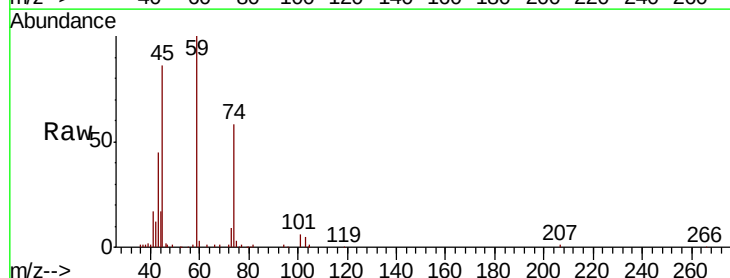
Acq: 6 Sep 2018 13:38

Tgt Ion: 74 Resp: 36315

Ion Ratio Lower Upper

74 100

45 147.0 75.3 225.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

30000

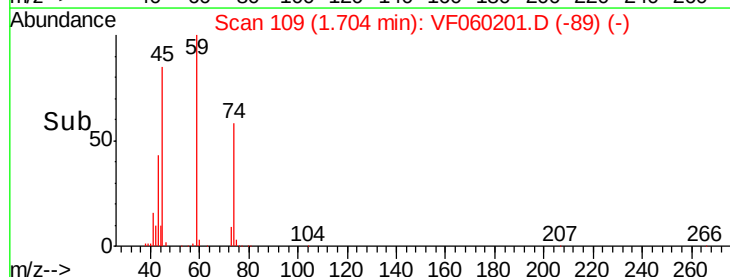
20000

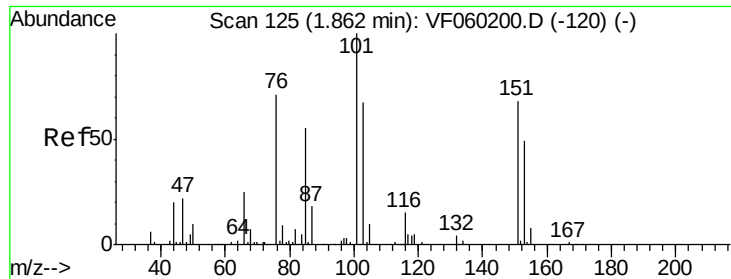
10000

0

1.70

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 70.02 ug/l

RT: 1.86 min Scan# 125

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

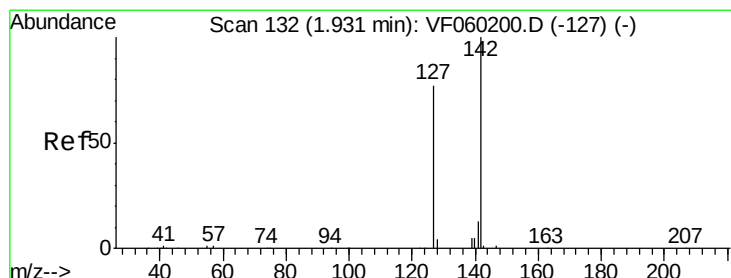
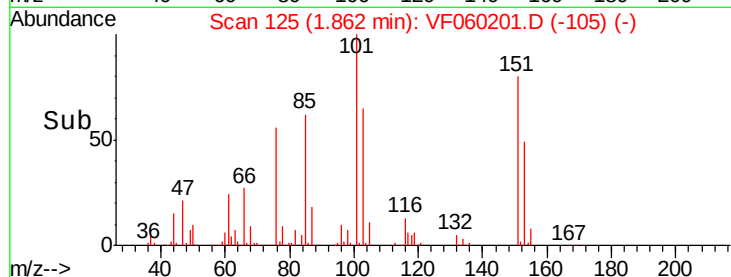
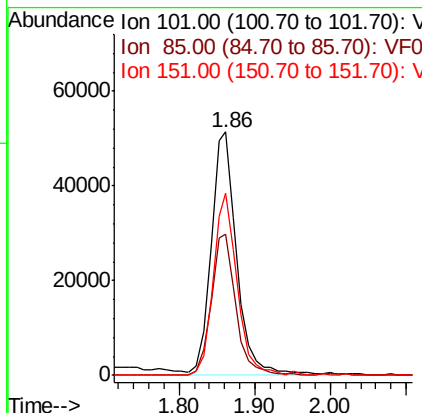
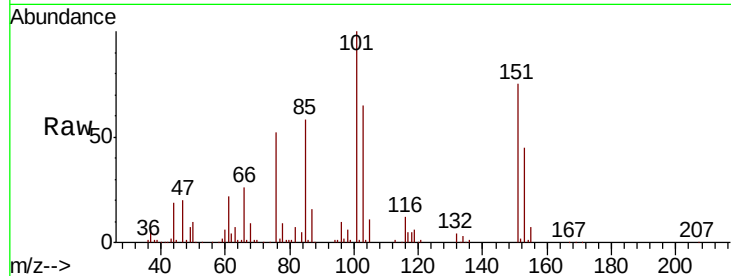
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	119650
Ion Ratio	Lower	Upper	
101	100		
85	58.2	43.0	64.4
151	74.8	53.6	80.4

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#10

Methyl Iodide

Concen: 61.15 ug/l

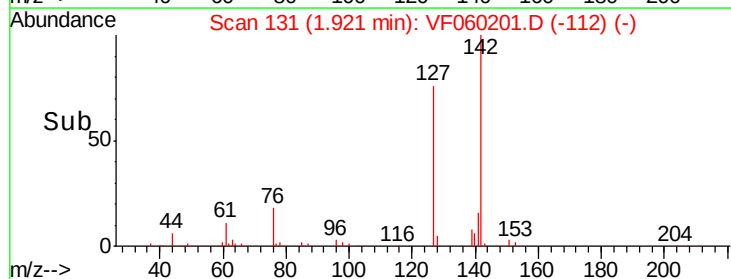
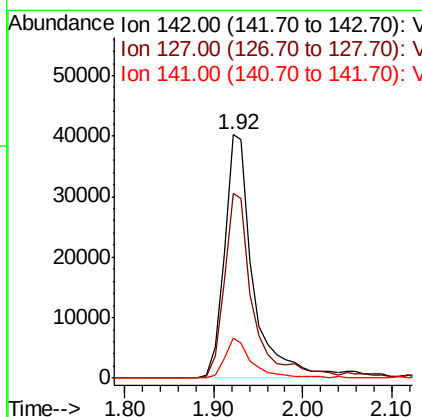
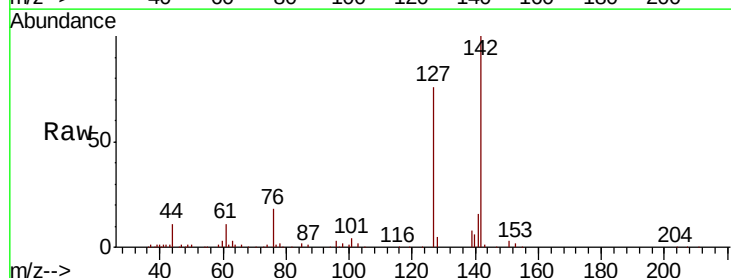
RT: 1.92 min Scan# 131

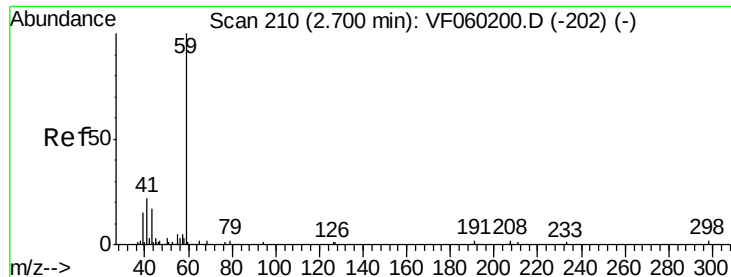
Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	142	Resp:	91479
Ion Ratio	Lower	Upper	
142	100		
127	75.9	61.1	91.7
141	16.5	10.6	15.8#





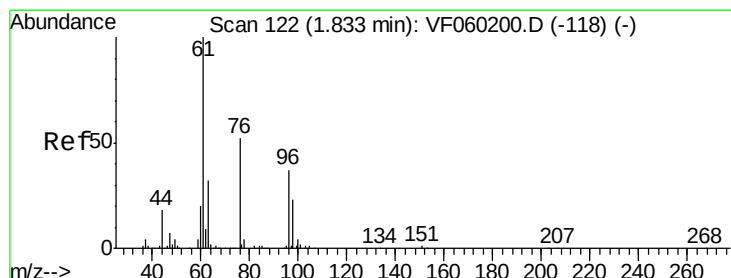
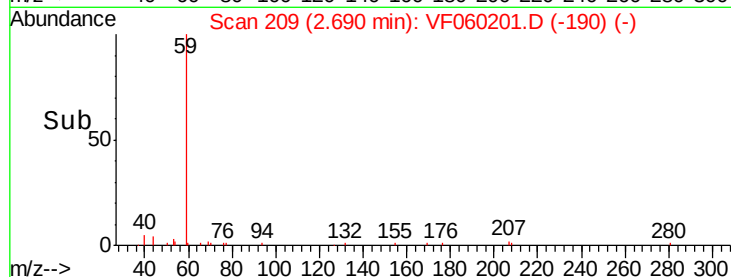
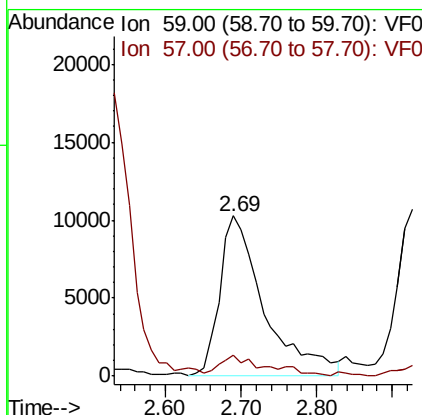
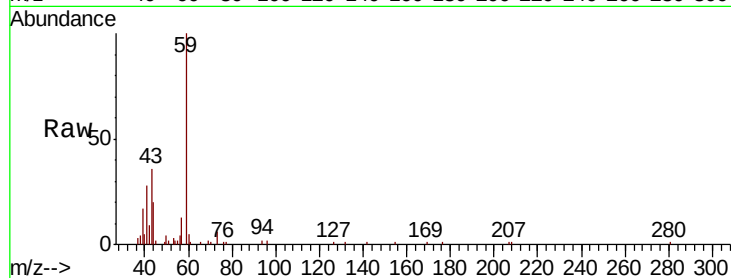
#11
Tert butyl alcohol
Concen: 337.94 ug/l
RT: 2.69 min Scan# 209
Delta R.T. -0.01 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 59 Resp: 42102
Ion Ratio Lower Upper
59 100
57 13.2 7.2 10.8#

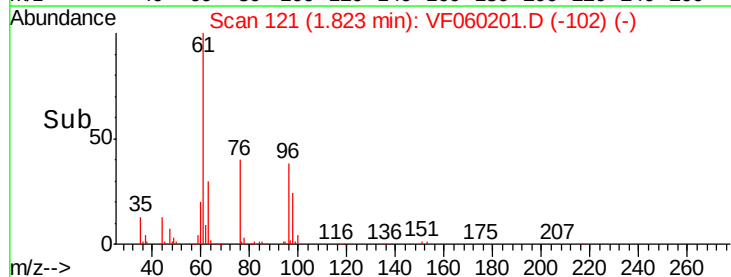
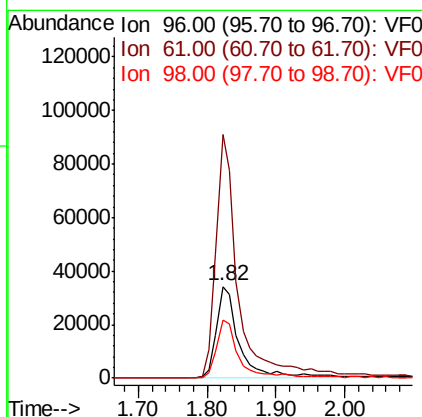
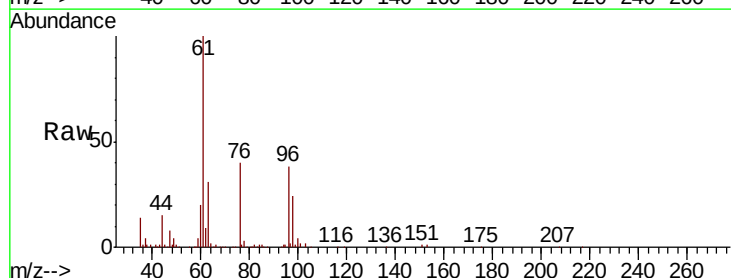
Manual Integrations
APPROVED

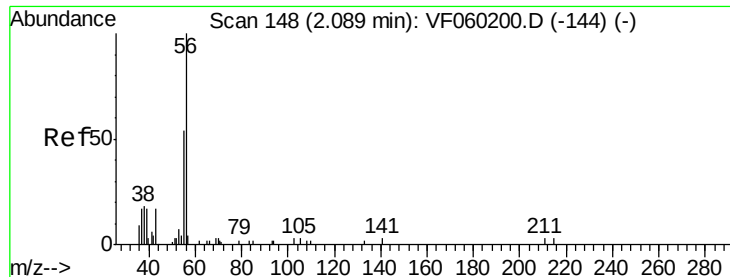
apatel
9/7/2018 10:49:53 AM



#12
1,1-Dichloroethene
Concen: 67.93 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion: 96 Resp: 78238
Ion Ratio Lower Upper
96 100
61 265.5 214.6 321.8
98 63.4 50.7 76.1





#13

Acrolein

Concen: 284.27 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 56 Resp: 18783

Ion Ratio Lower Upper

56 100

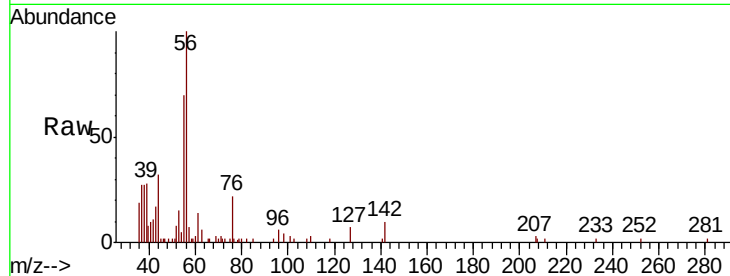
55 70.4 45.1 67.7#

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.09

8000

6000

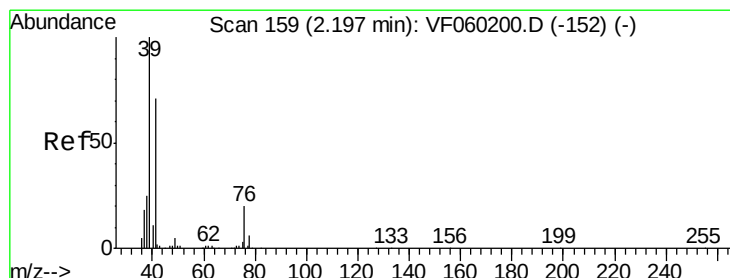
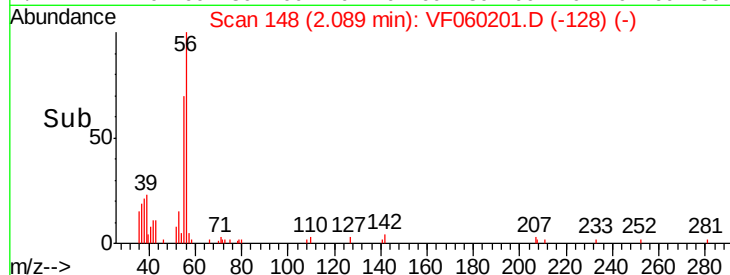
4000

2000

0

Time-->

2.00 2.05 2.10 2.15 2.20



#14

Allyl chloride

Concen: 66.92 ug/l

RT: 2.19 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

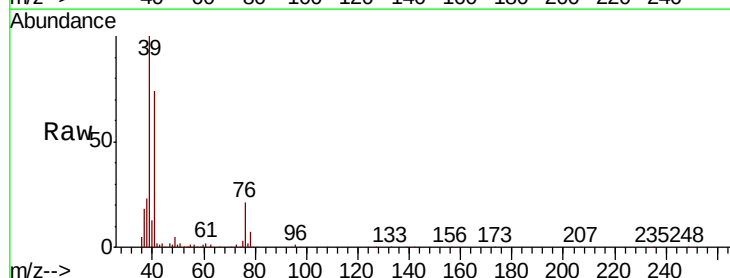
Tgt Ion: 41 Resp: 115648

Ion Ratio Lower Upper

41 100

39 135.2 112.2 168.2

76 27.9 23.2 34.8



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

80000

60000

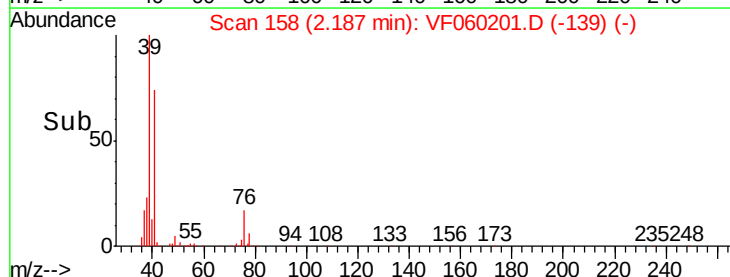
40000

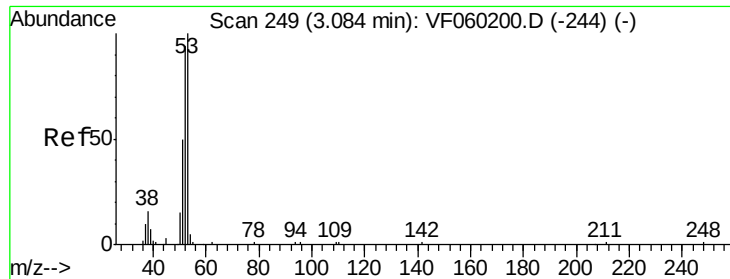
20000

0

Time-->

2.10 2.20 2.30





#15

Acrylonitrile

Concen: 344.35 ug/l

RT: 3.07 min Scan# 248

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

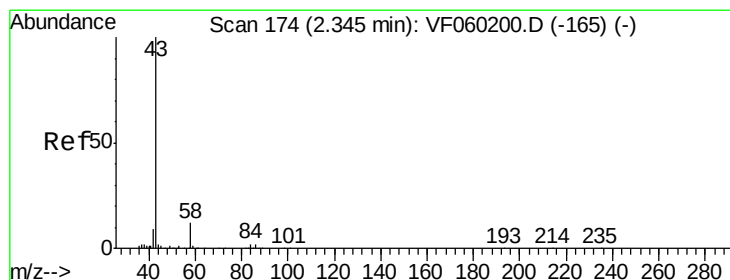
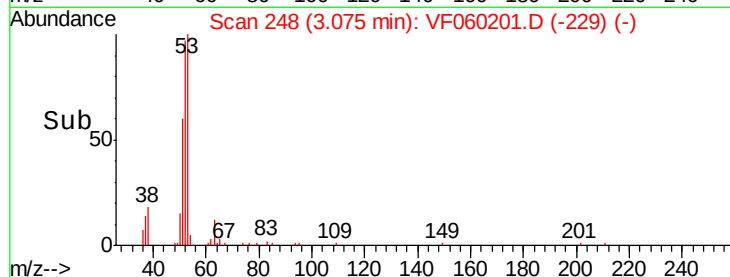
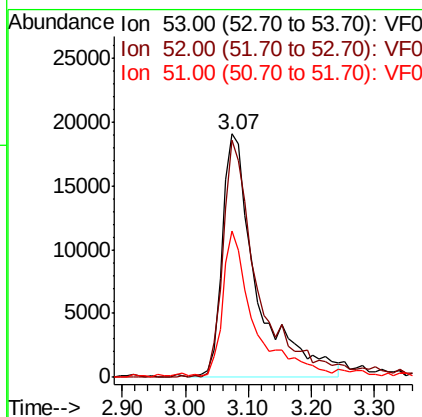
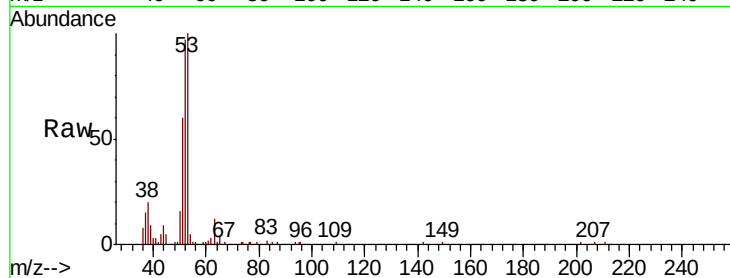
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	73086
Ion Ratio	Lower	Upper	
53	100		
52	97.4	75.0	112.6
51	60.3	39.9	59.9#

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#16

Acetone

Concen: 317.45 ug/l

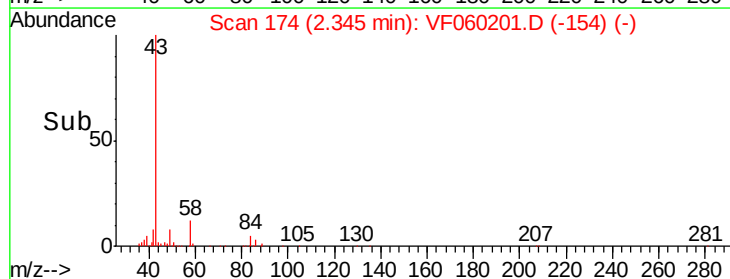
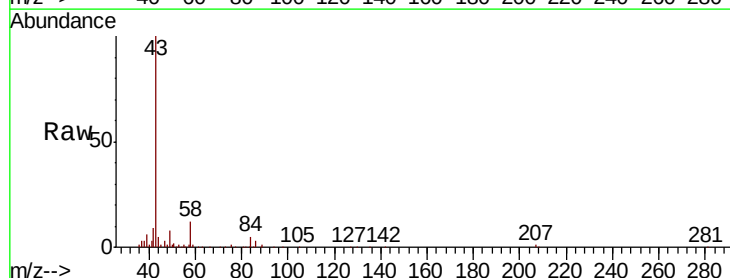
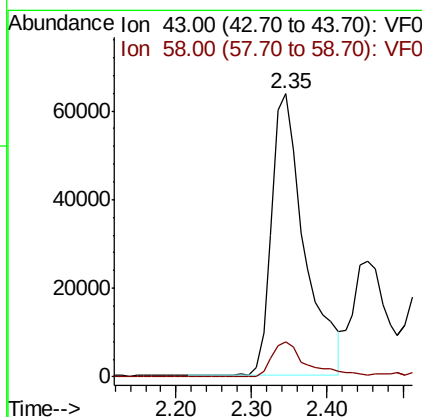
RT: 2.35 min Scan# 174

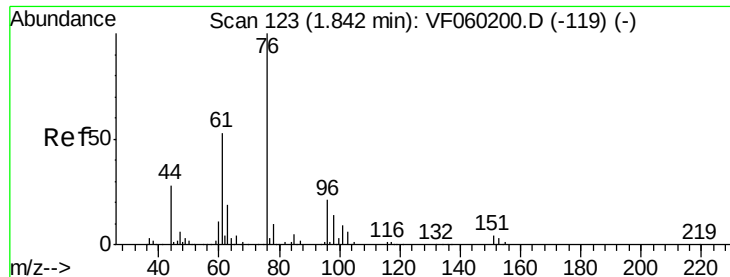
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	43	Resp:	193854
Ion Ratio	Lower	Upper	
43	100		
58	12.5	9.7	14.5





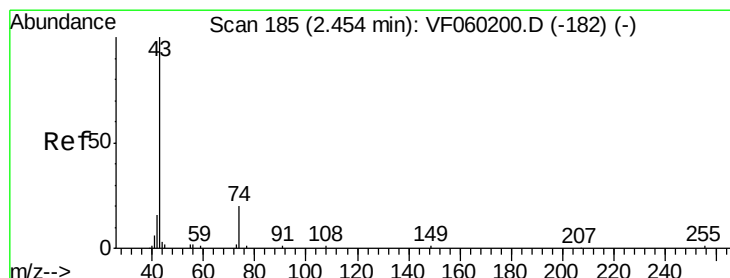
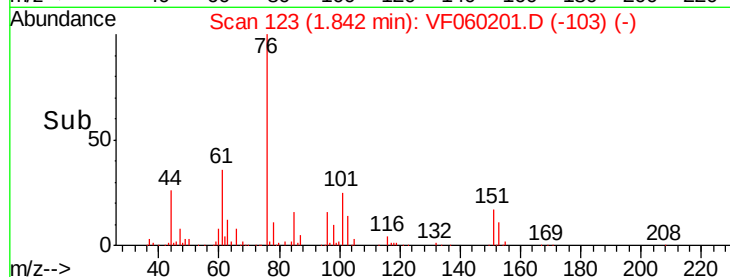
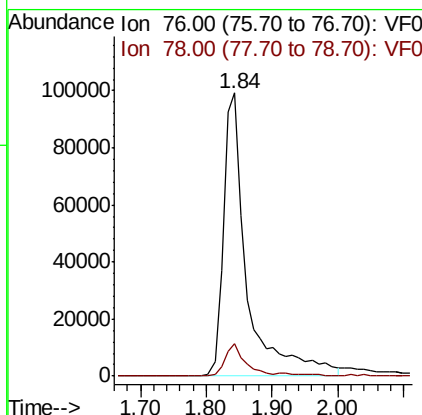
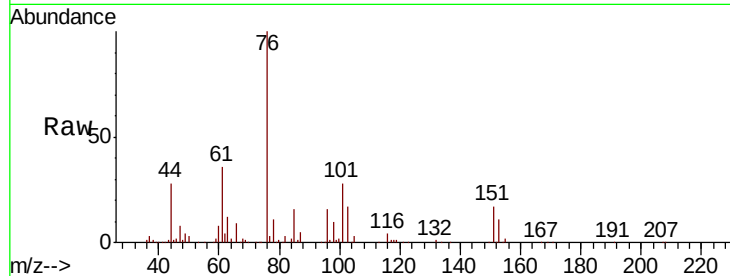
#17
Carbon Disulfide
Concen: 73.83 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.4	8.5	12.7

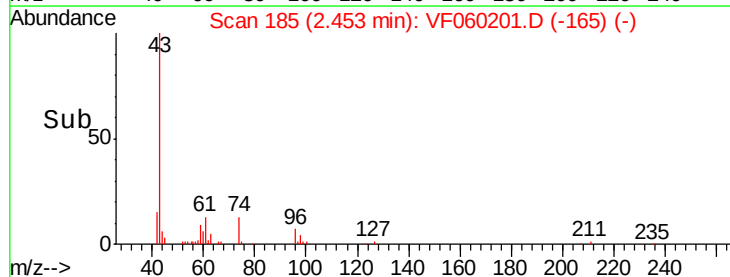
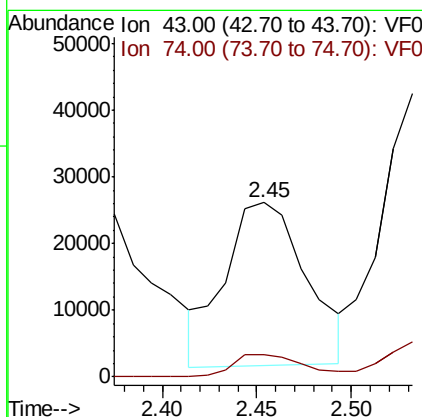
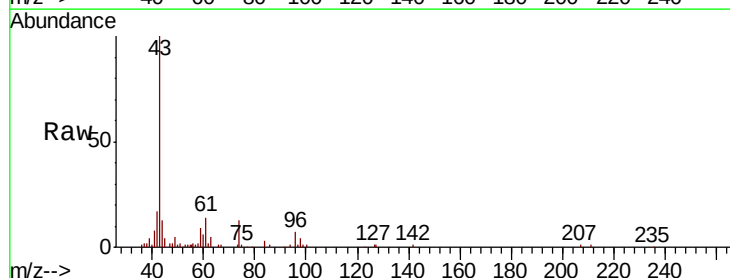
Manual Integrations
APPROVED

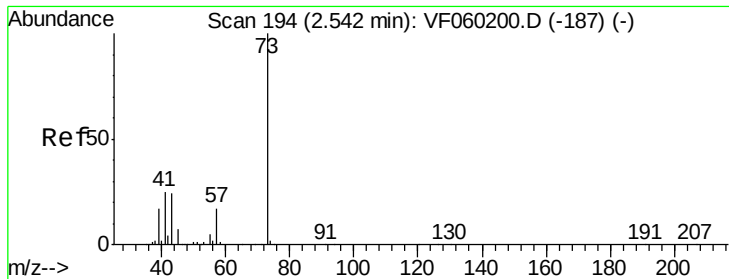
apatel
9/7/2018 10:49:53 AM



#18
Methyl Acetate
Concen: 74.65 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	12.8	11.9	17.9





#19

Methyl tert-butyl Ether

Concen: 70.77 ug/l

RT: 2.53 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 73 Resp: 269099

Ion Ratio Lower Upper

73 100

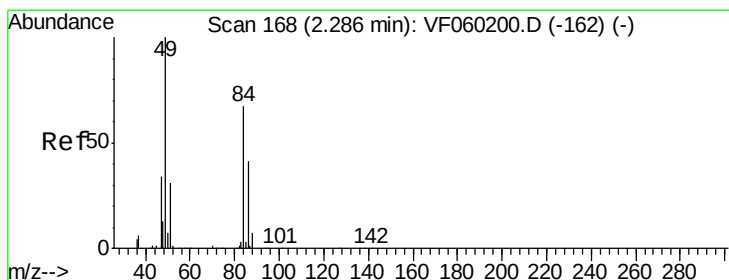
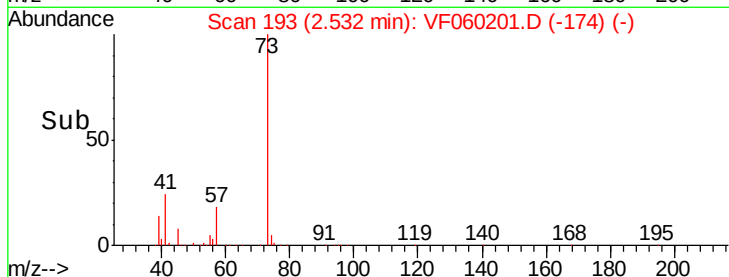
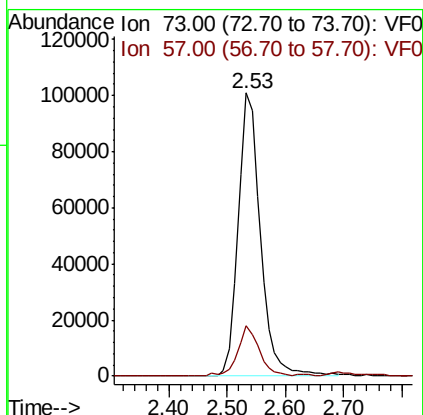
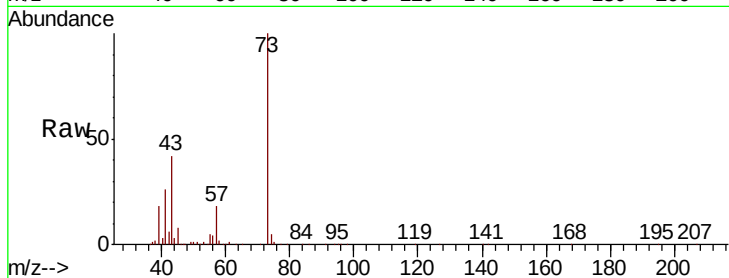
57 18.0 14.3 21.5

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#20

Methylene Chloride

Concen: 46.77 ug/l

RT: 2.28 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion: 84 Resp: 86104

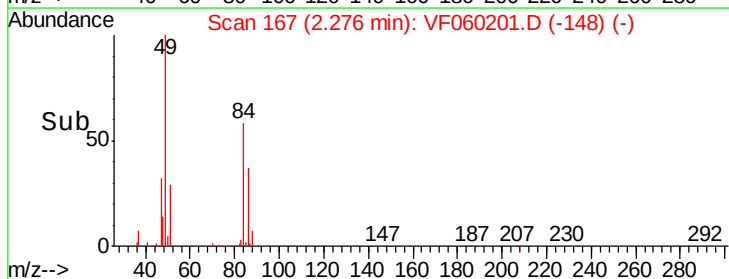
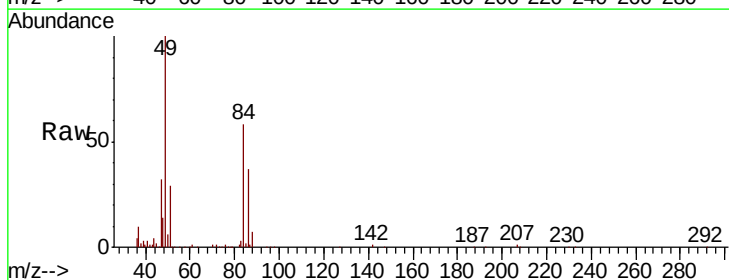
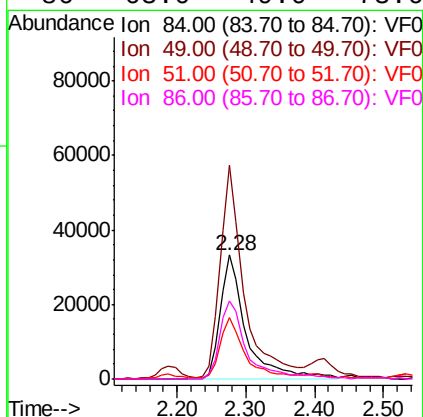
Ion Ratio Lower Upper

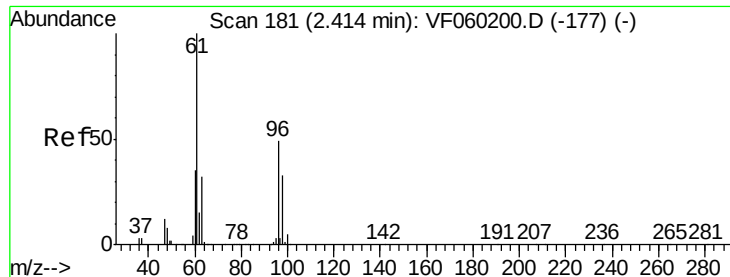
84 100

49 172.6 120.1 180.1

51 50.2 37.0 55.6

86 63.0 49.0 73.6





#21

trans-1,2-Dichloroethene

Concen: 73.49 ug/l

RT: 2.40 min Scan# 180

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

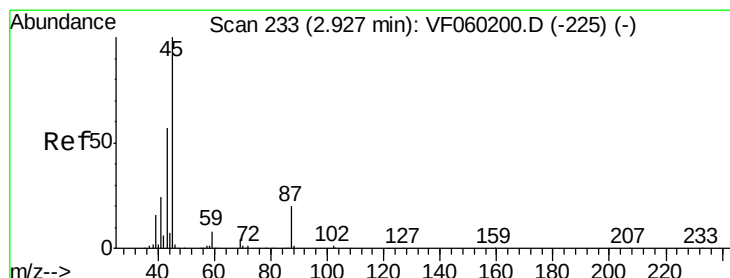
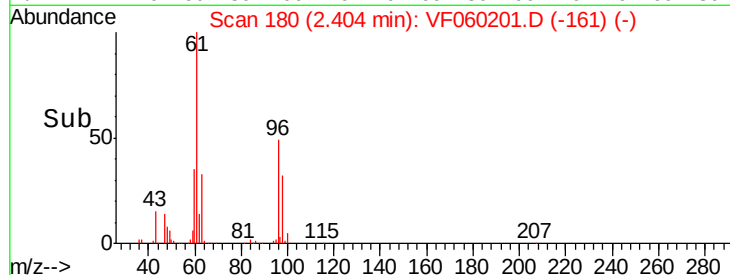
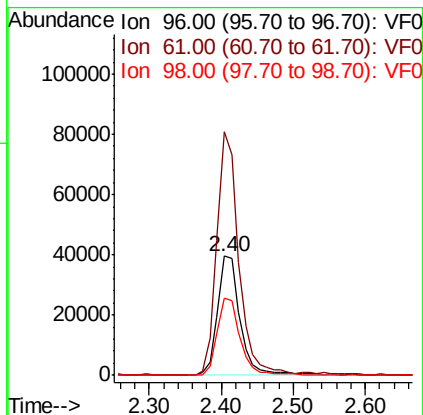
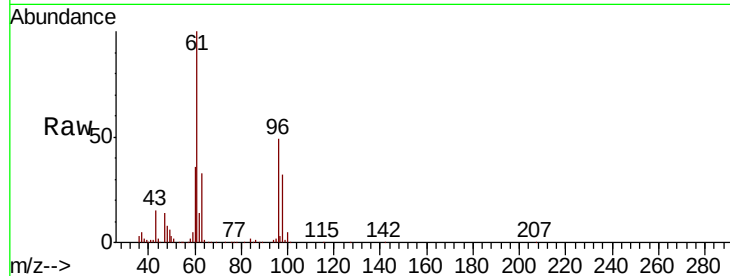
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	86200
Ion	Ratio	Lower	Upper
96	100		
61	204.8	163.1	244.7
98	64.7	54.1	81.1

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#22

Diisopropyl ether

Concen: 71.80 ug/l

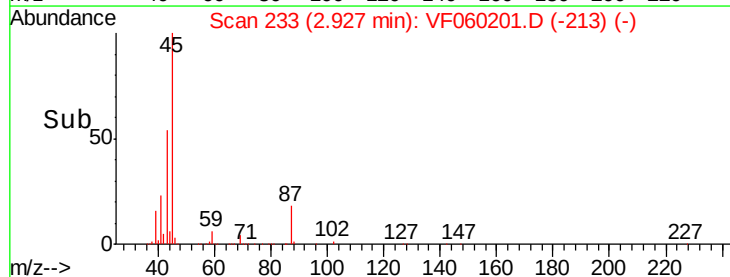
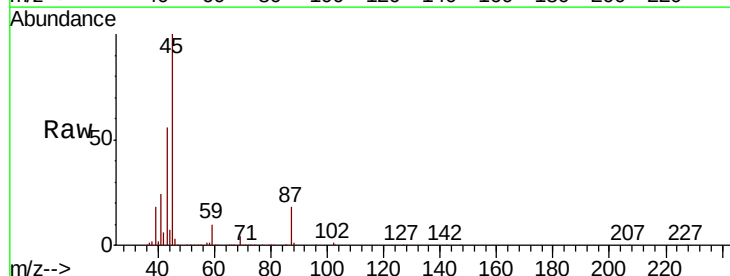
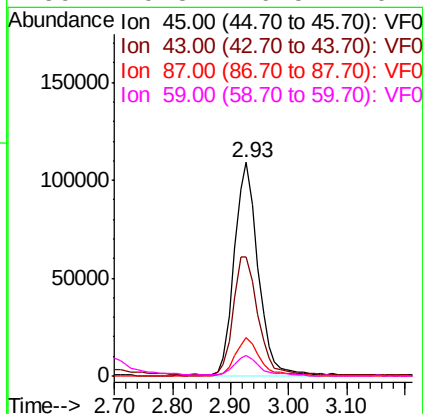
RT: 2.93 min Scan# 233

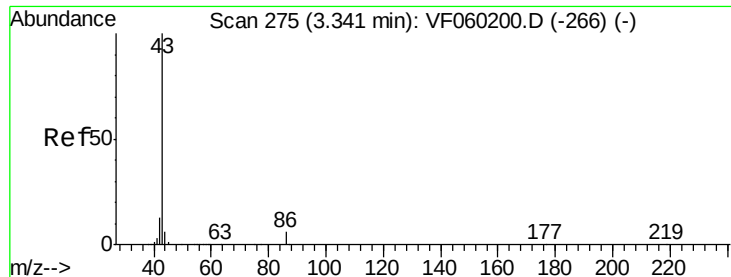
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	45	Resp:	311700
Ion	Ratio	Lower	Upper
45	100		
43	55.8	46.2	69.4
87	17.8	16.1	24.1
59	9.8	6.5	9.7#





#23

Vinyl Acetate

Concen: 446.14 ug/l

RT: 3.33 min Scan# 274

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 677671

Ion Ratio Lower Upper

43 100

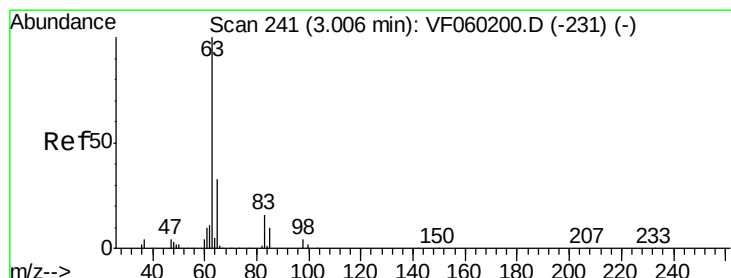
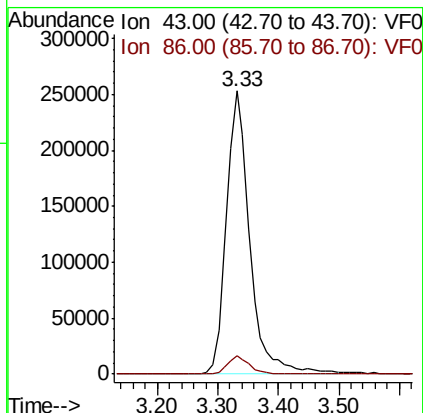
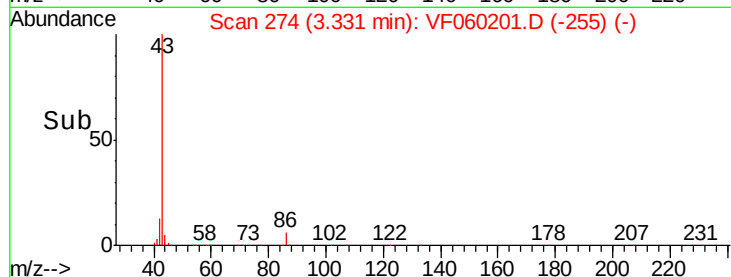
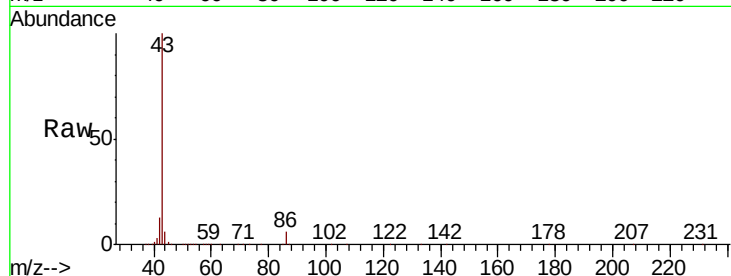
86 6.4 4.8 7.2

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#24

1,1-Dichloroethane

Concen: 69.89 ug/l

RT: 3.00 min Scan# 240

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

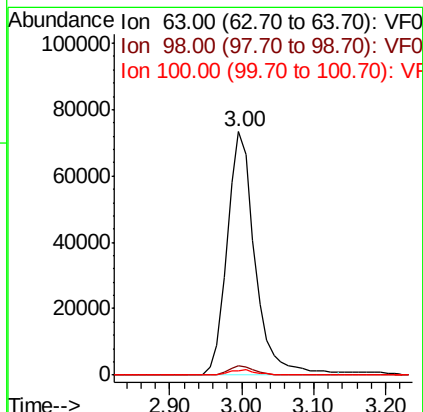
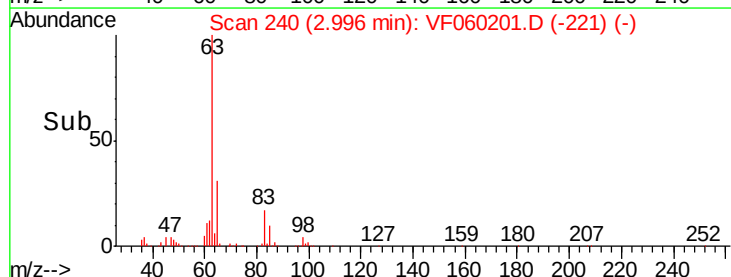
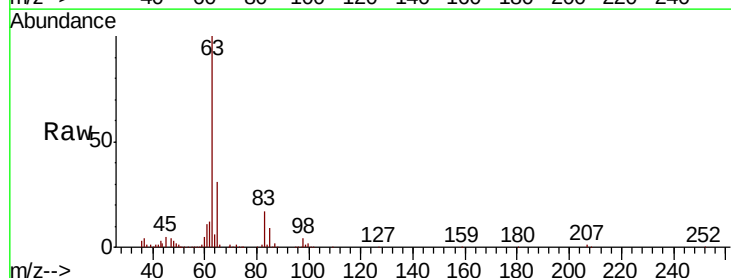
Tgt Ion: 63 Resp: 197256

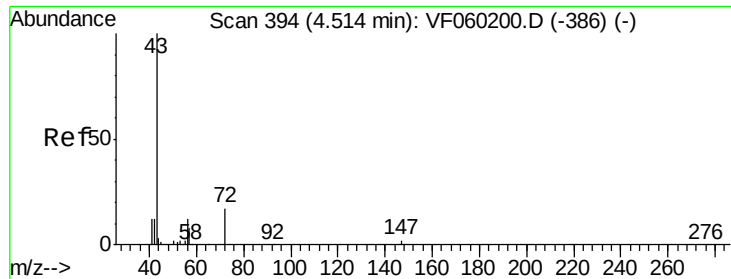
Ion Ratio Lower Upper

63 100

98 3.9 1.9 5.7

100 1.9 1.1 3.1





#25

2-Butanone

Concen: 329.78 ug/l

RT: 4.51 min Scan# 394

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 256411

Ion Ratio Lower Upper

43 100

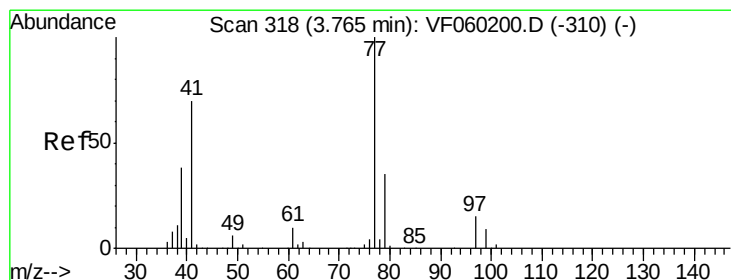
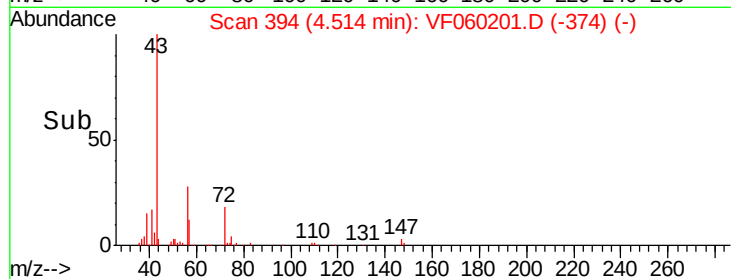
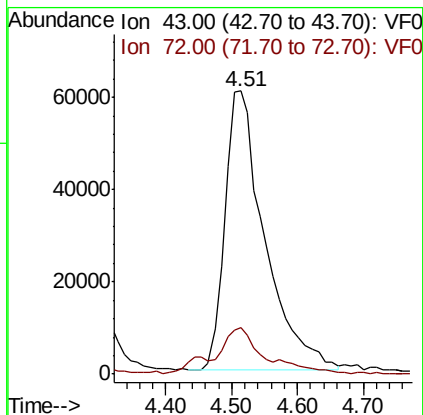
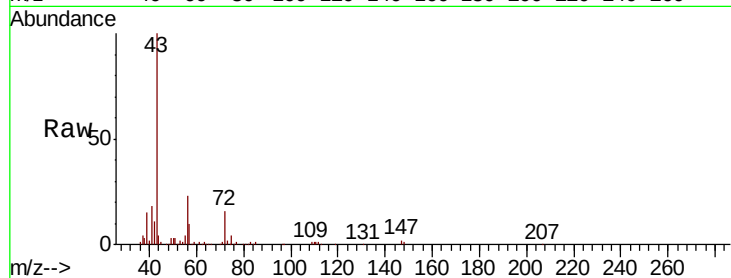
72 16.4 14.8 22.2

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#26

2,2-Dichloropropane

Concen: 65.66 ug/l

RT: 3.75 min Scan# 317

Delta R.T. -0.01 min

Lab File: VF060201.D

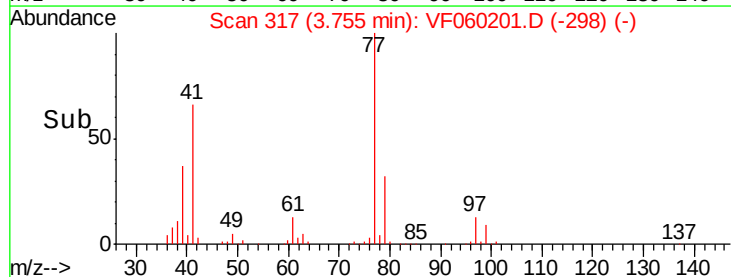
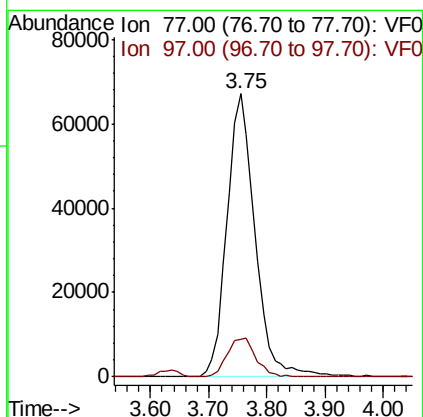
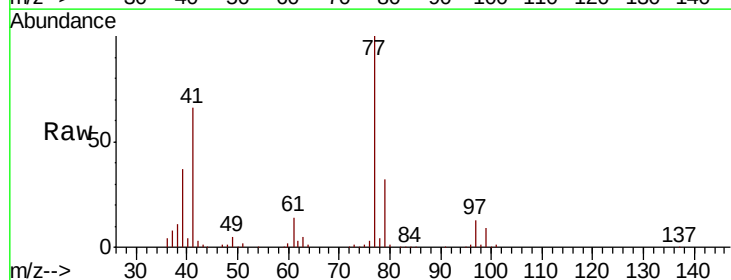
Acq: 6 Sep 2018 13:38

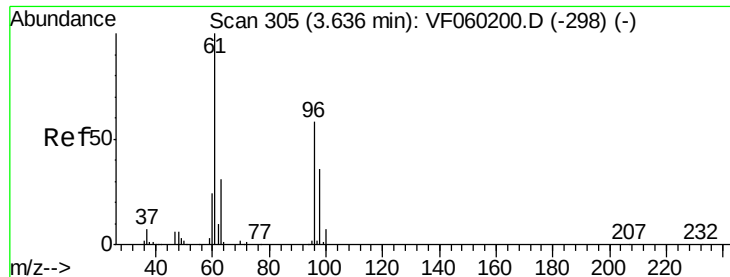
Tgt Ion: 77 Resp: 224367

Ion Ratio Lower Upper

77 100

97 13.4 7.5 22.5





#27

cis-1,2-Dichloroethene

Concen: 70.09 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

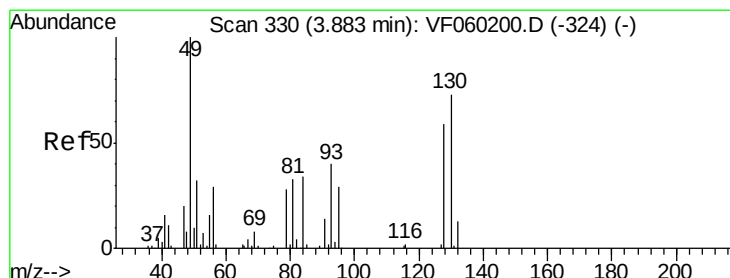
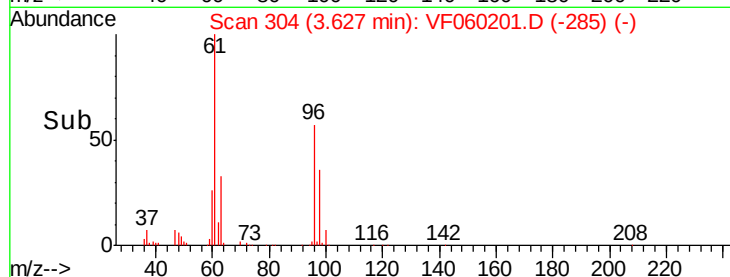
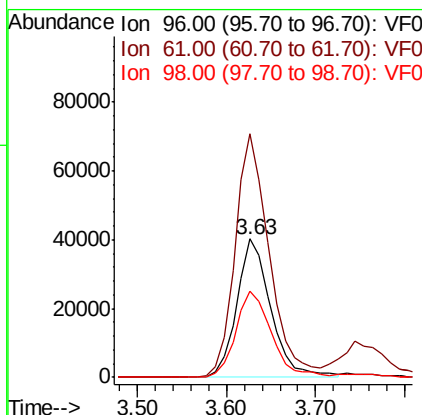
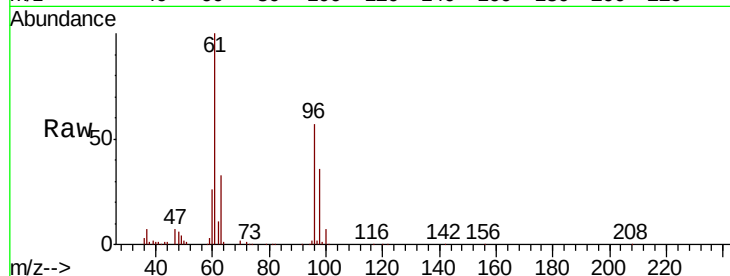
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	106591
Ion Ratio	Lower	Upper	
96	100		
61	176.0	0.0	345.2
98	62.6	0.0	124.6

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#28

Bromochloromethane

Concen: 64.59 ug/l

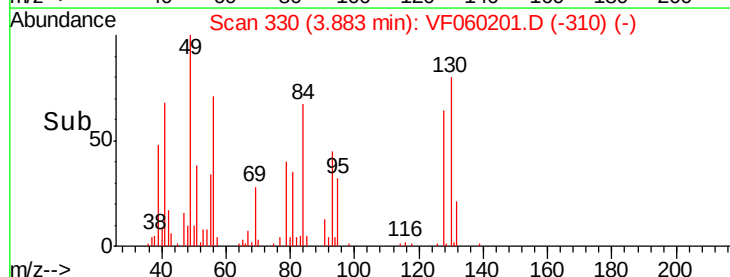
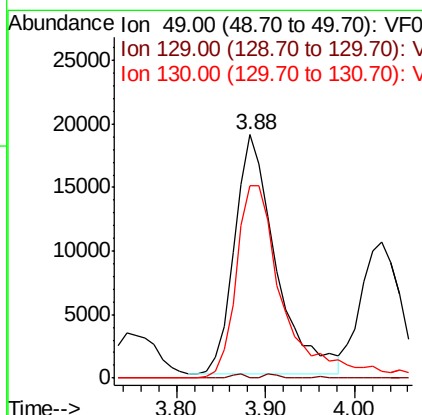
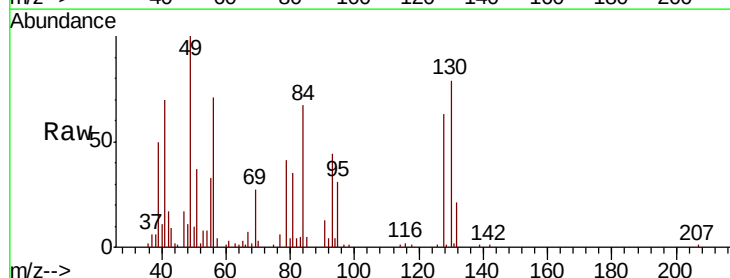
RT: 3.88 min Scan# 330

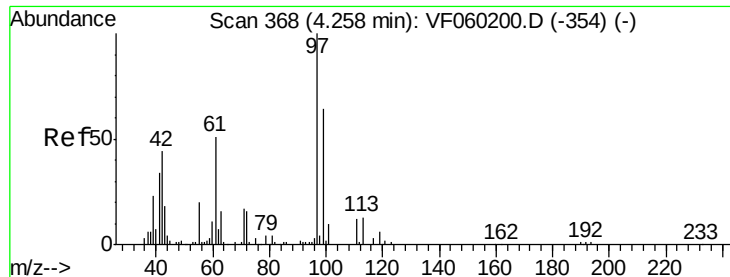
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	49	Resp:	61454
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	0.0
130	79.1	57.8	86.6





#29

Tetrahydrofuran

Concen: 356.35 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

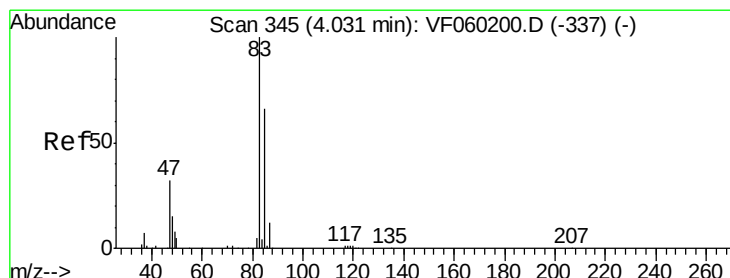
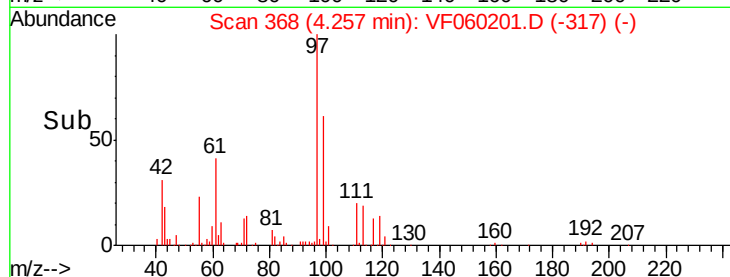
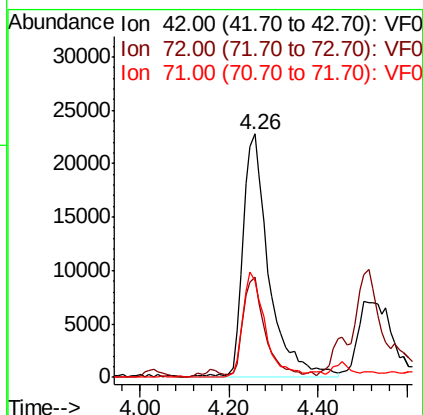
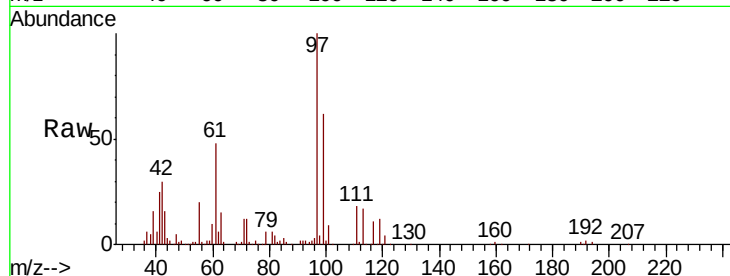
ClientSampleId :

VSTDIC075

Tot Ion:	42	Resp:	92241
Ion	Ratio	Lower	Upper
42	100		
72	33.9	27.4	41.0
71	37.3	28.5	42.7

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#30

Chloroform

Concen: 72.56 ug/l

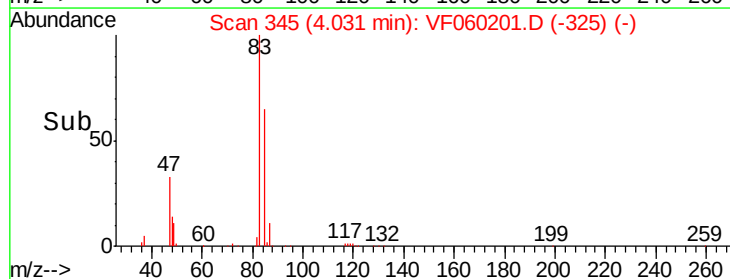
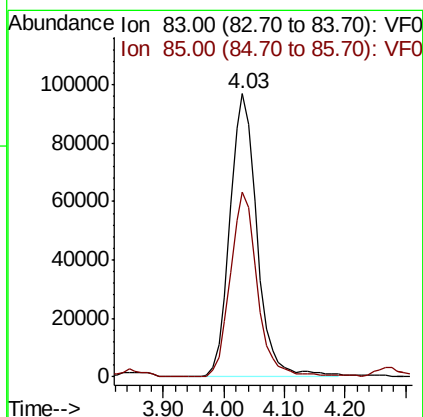
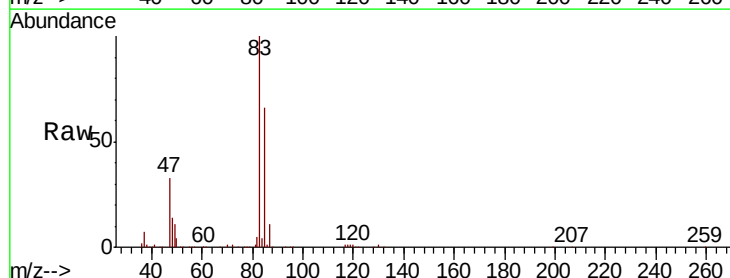
RT: 4.03 min Scan# 345

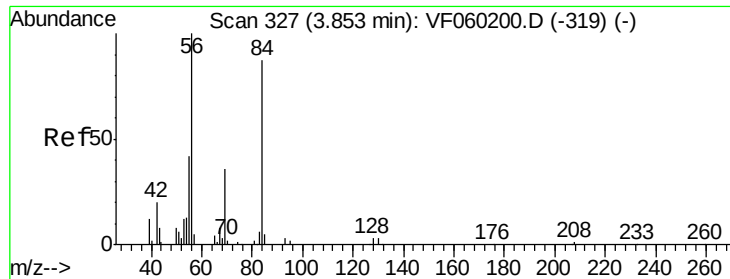
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	83	Resp:	302378
Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.6	79.0





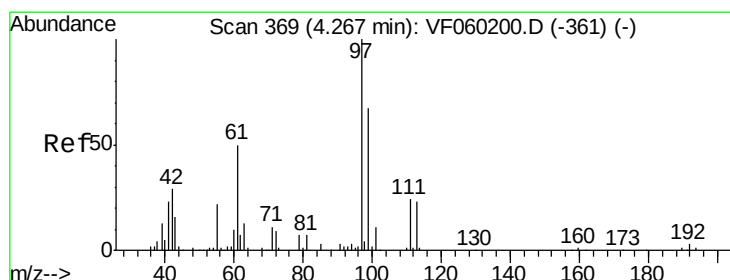
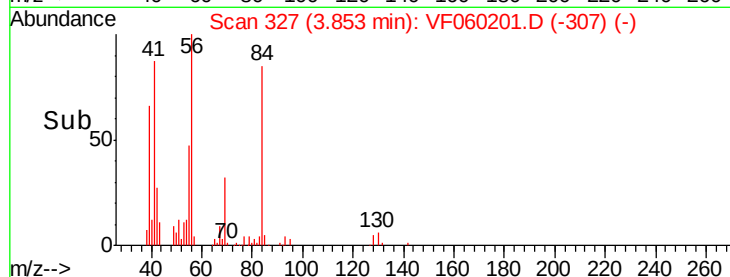
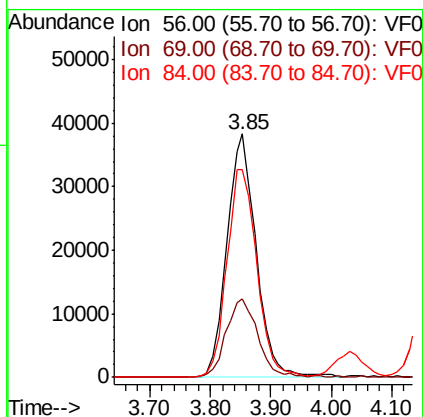
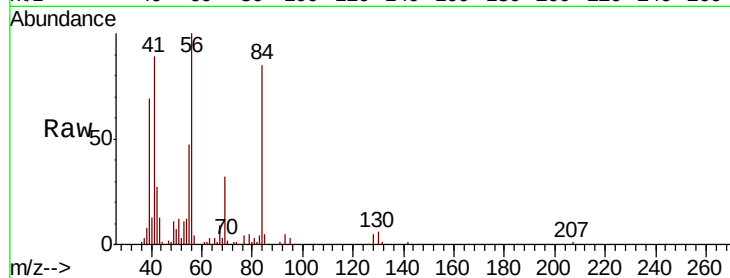
#31
Cyclohexane
Concen: 67.34 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	32.1	28.7	43.1	
84	85.4	69.7	104.5	

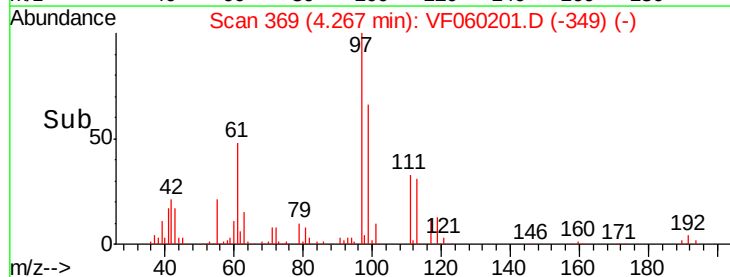
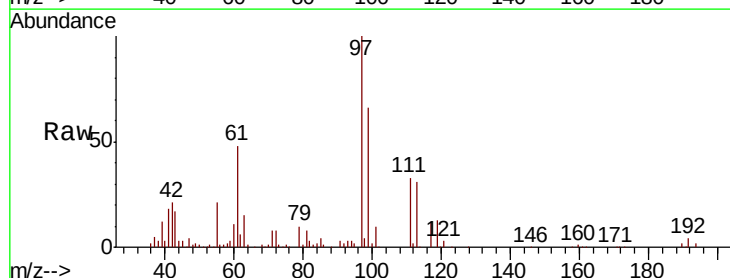
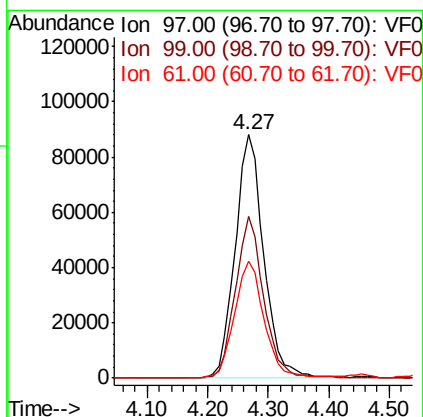
Manual Integrations
APPROVED

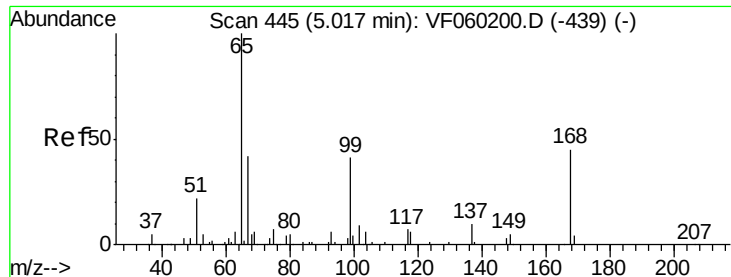
apatel
9/7/2018 10:49:53 AM



#32
1,1,1-Trichloroethane
Concen: 70.04 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	66.3	53.5	80.3	
61	48.2	40.4	60.6	





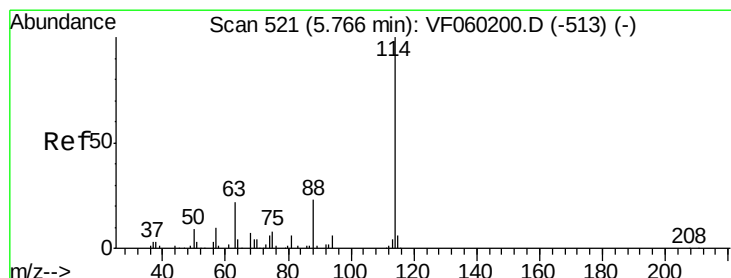
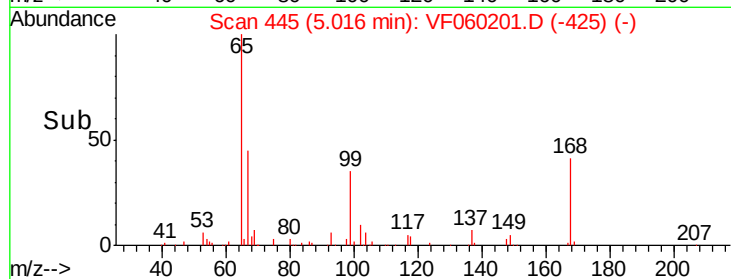
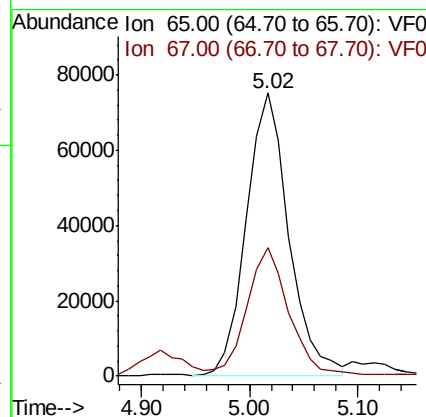
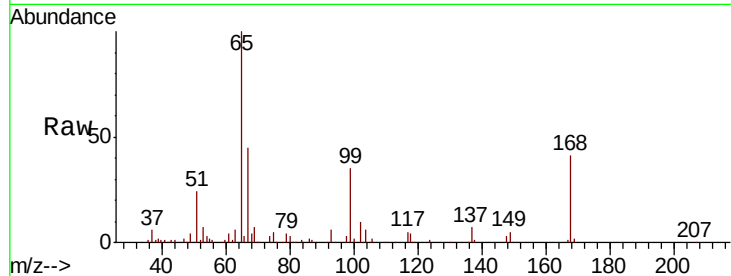
#33
 1,2-Dichloroethane-d4
 Concen: 72.59 ug/l
 RT: 5.02 min Scan# 445
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
65	100		
67	45.5	0.0	87.2

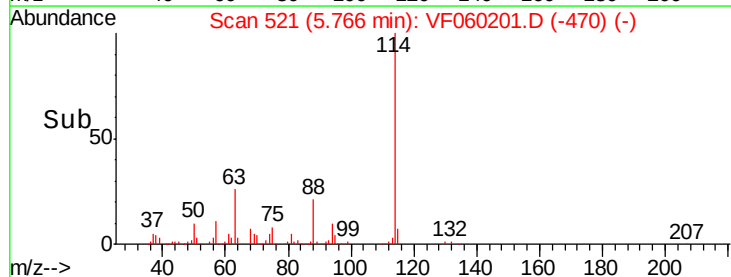
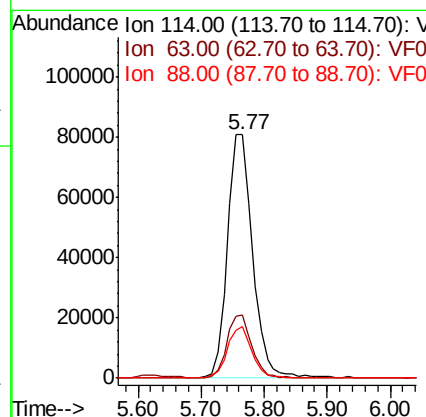
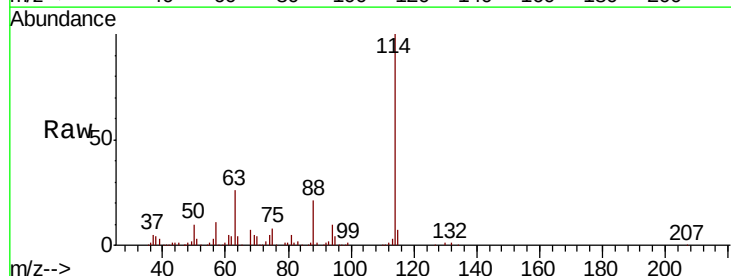
Manual Integrations
 APPROVED

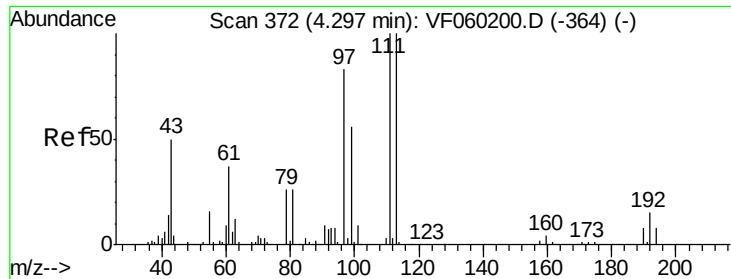
apatel
 9/7/2018 10:49:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.7	0.0	45.6
88	21.1	0.0	46.4





#35

Dibromofluoromethane

Concen: 71.29 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

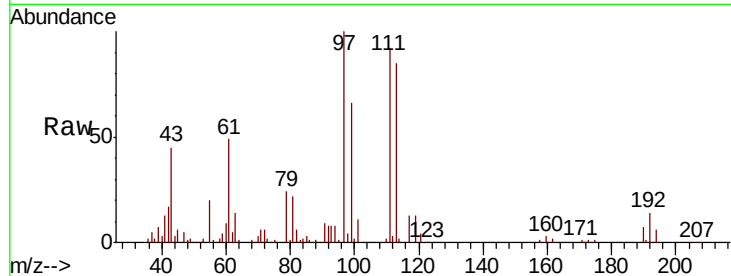
ClientSampleId :

VSTDIC075

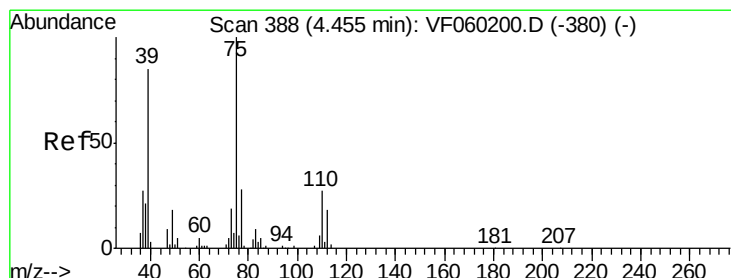
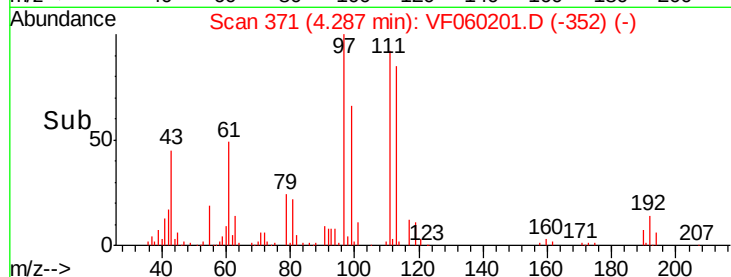
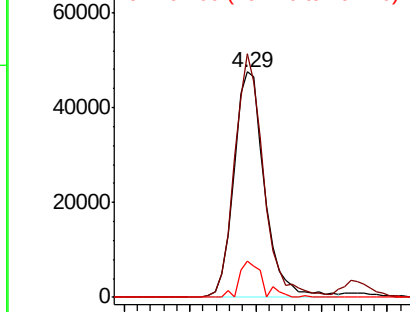
Tot Ion:	113	Resp:	156392
Ion Ratio	Lower	Upper	
113	100		
111	108.1	80.2	120.2
192	16.2	11.8	17.8

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 70.36 ug/l

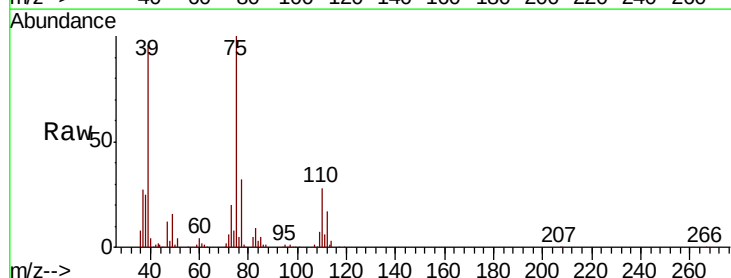
RT: 4.45 min Scan# 388

Delta R.T. -0.00 min

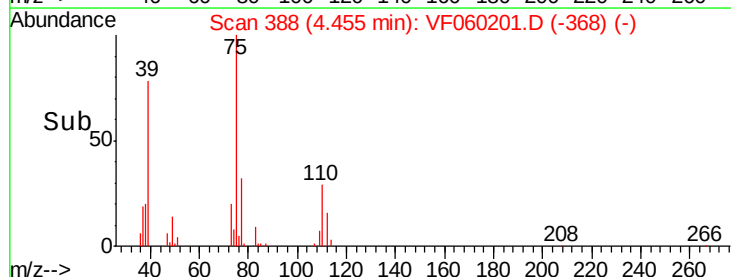
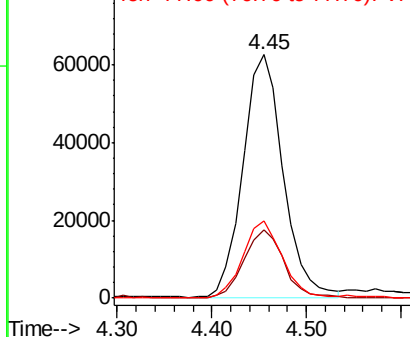
Lab File: VF060201.D

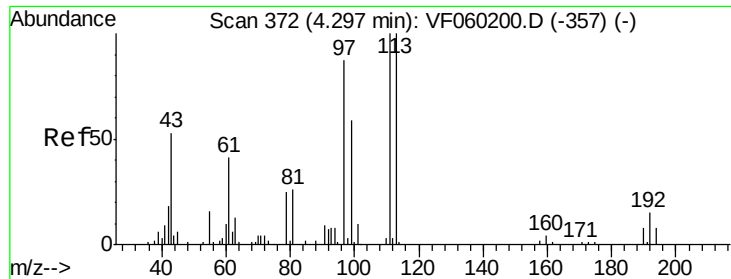
Acq: 6 Sep 2018 13:38

Tgt Ion:	75	Resp:	183554
Ion Ratio	Lower	Upper	
75	100		
110	27.9	13.6	40.7
77	31.8	22.7	34.1



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 67.21 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

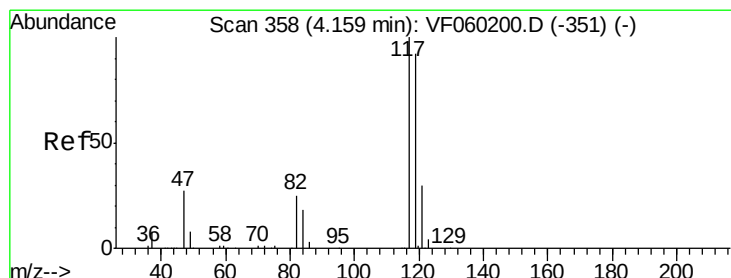
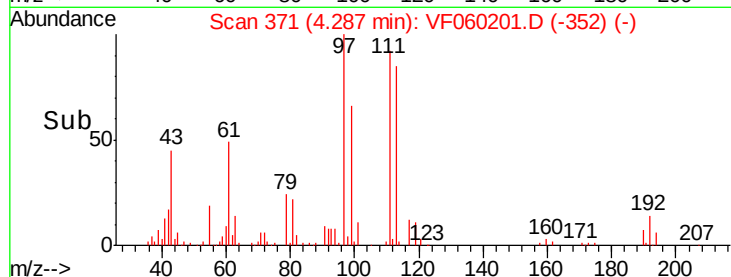
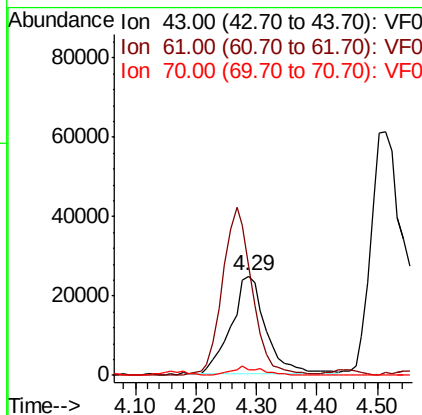
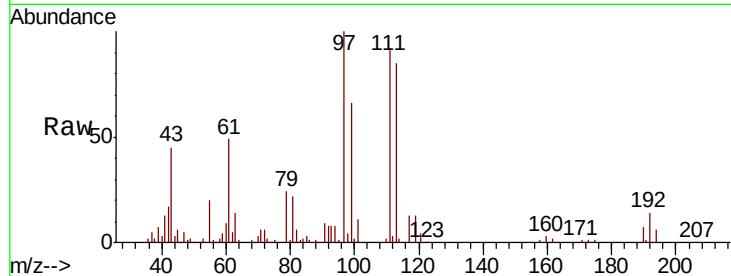
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	96478
Ion	Ratio	Lower	Upper
43	100		
61	109.4	61.6	92.4#
70	5.9	6.9	10.3#

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#38

Carbon Tetrachloride

Concen: 72.62 ug/l

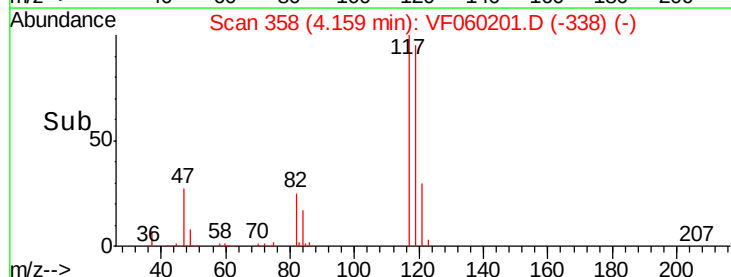
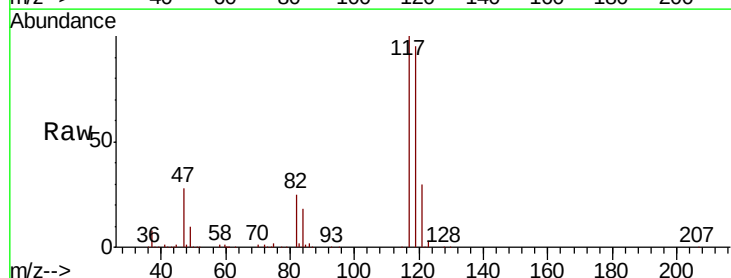
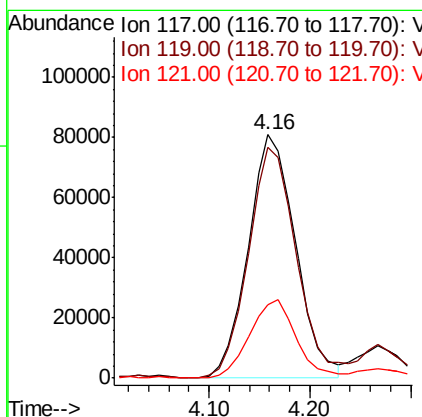
RT: 4.16 min Scan# 358

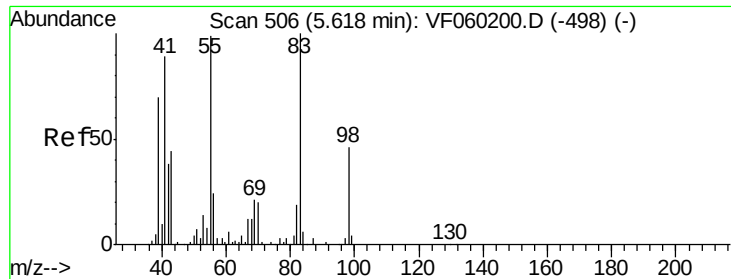
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	117	Resp:	264915
Ion	Ratio	Lower	Upper
117	100		
119	94.9	73.0	109.6
121	30.0	23.9	35.9





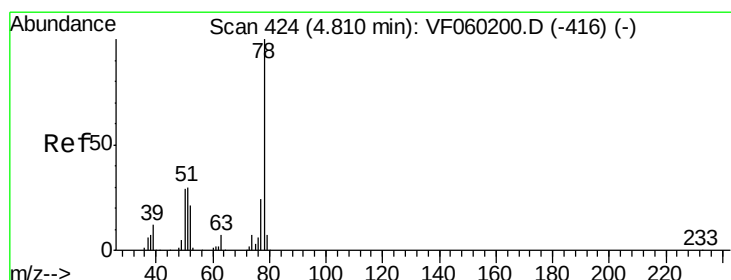
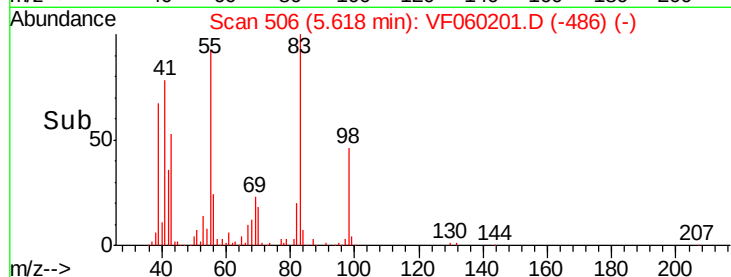
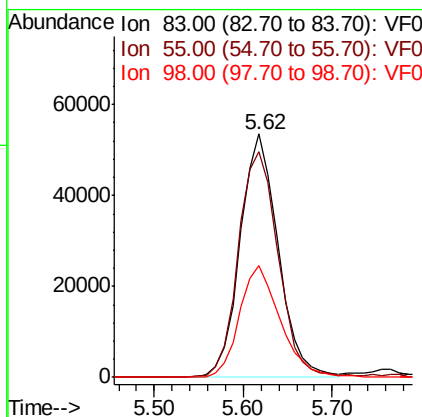
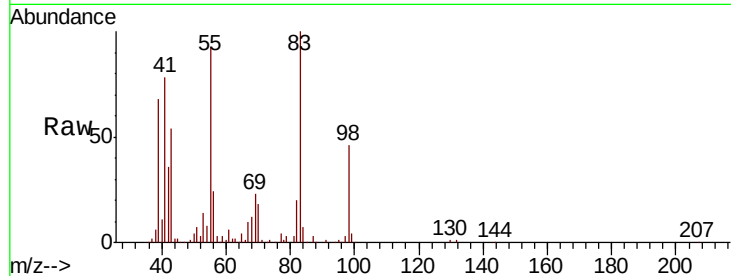
#39
Methylvlcyclohexane
Concen: 71.85 ug/l
RT: 5.62 min Scan# 506
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
83	100		
55	92.6	79.0	118.4
98	46.0	36.7	55.1

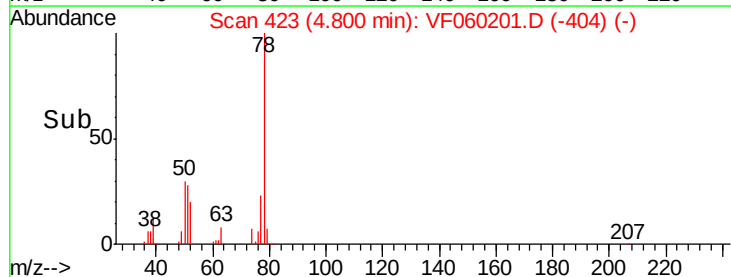
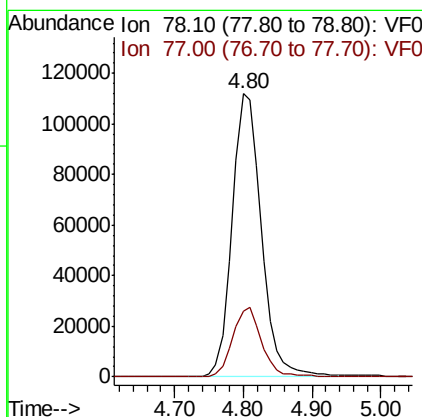
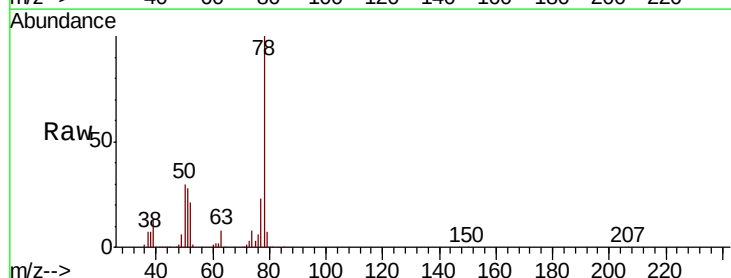
Manual Integrations
APPROVED

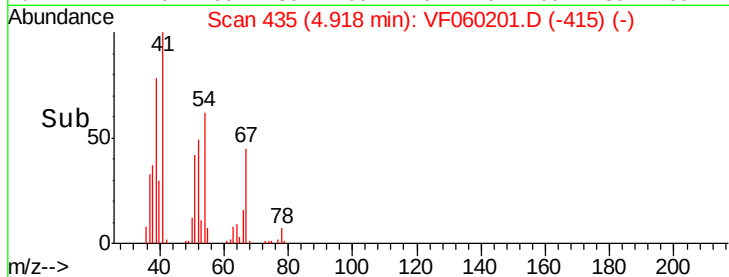
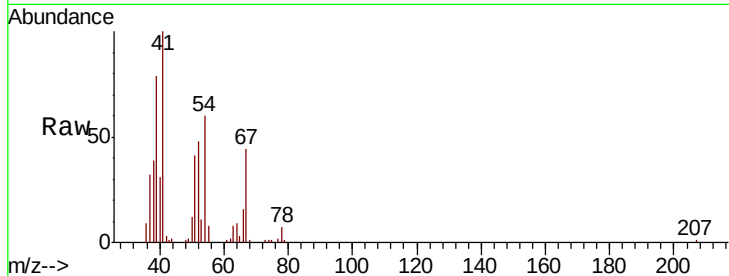
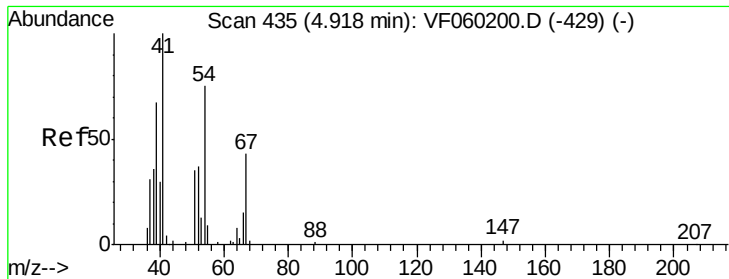
apatel
9/7/2018 10:49:53 AM



#40
Benzene
Concen: 71.05 ug/l
RT: 4.80 min Scan# 423
Delta R.T. -0.01 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





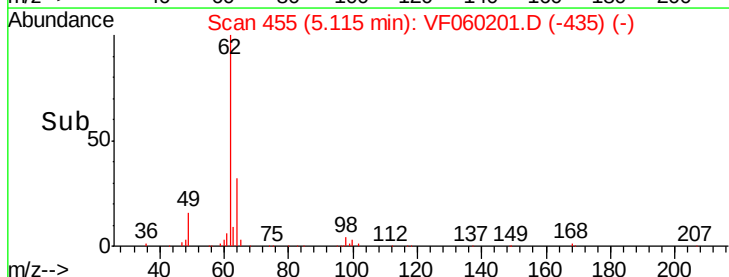
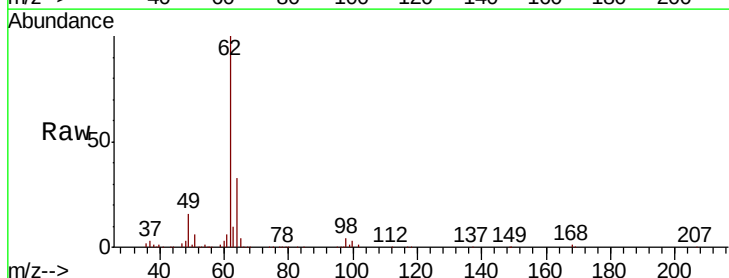
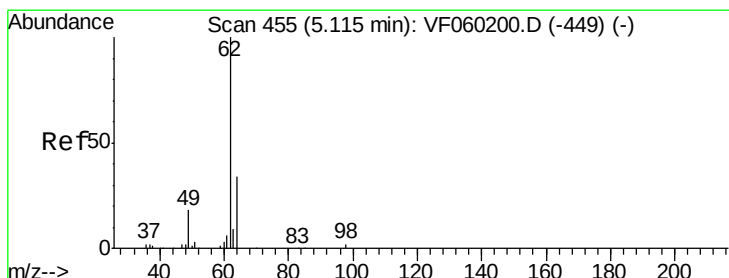
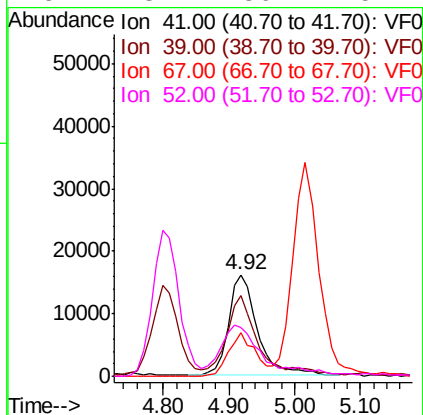
#41
Methacrylonitrile
Concen: 70.38 ug/l
RT: 4.92 min Scan# 435
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		47939		
39	79.1	57.4		86.2	
67	43.5	34.6		52.0	
52	48.4	36.2		54.4	

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

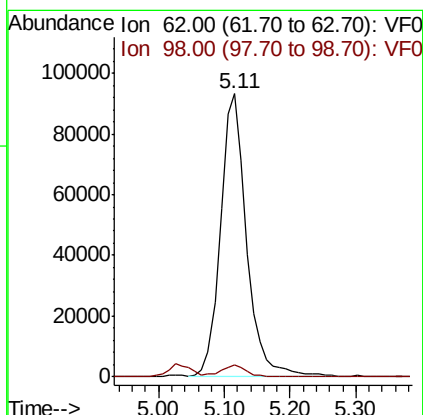
Manual Integrations
APPROVED

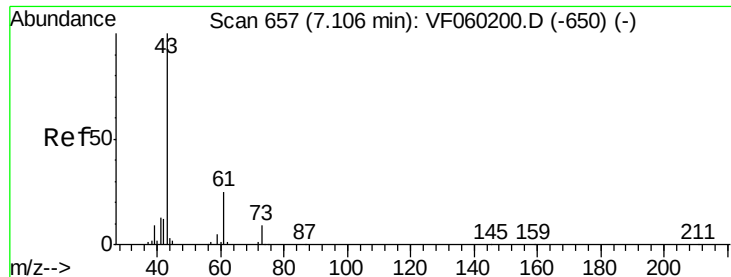
apatel
9/7/2018 10:49:53 AM



#42
1,2-Dichloroethane
Concen: 74.46 ug/l
RT: 5.11 min Scan# 455
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		253717		
98	4.4	0.0		8.8	





#43

Isopropyl Acetate

Concen: 76.77 ug/l

RT: 7.11 min Scan# 657

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

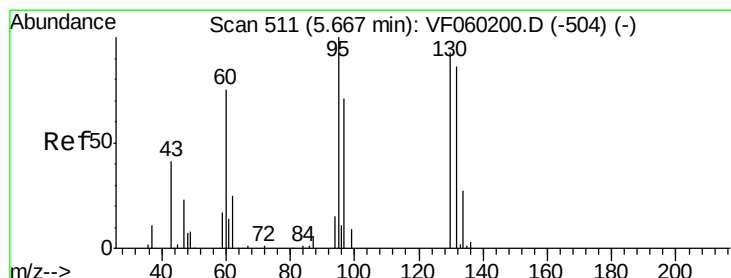
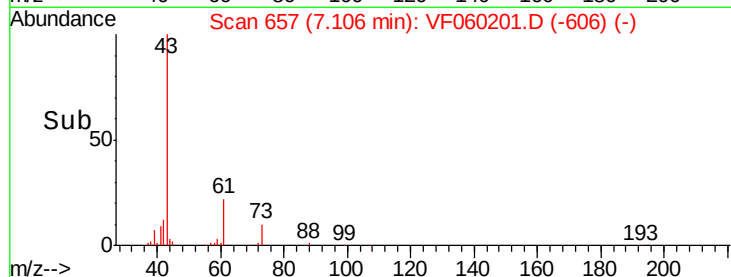
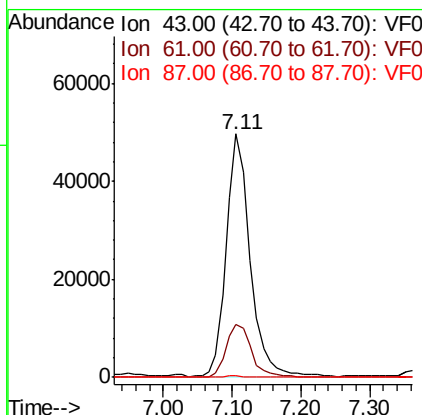
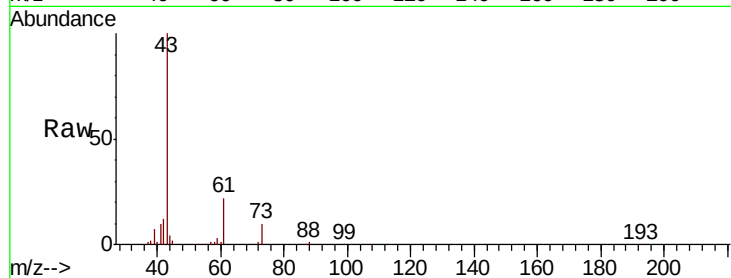
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	118099
Ion	Ratio	Lower	Upper
43	100		
61	21.7	19.9	29.9
87	0.5	0.4	0.6

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#44

Trichloroethene

Concen: 67.80 ug/l

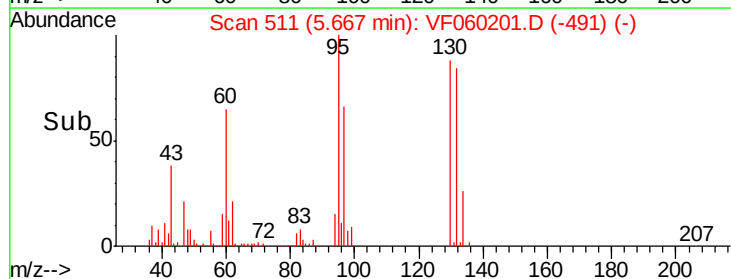
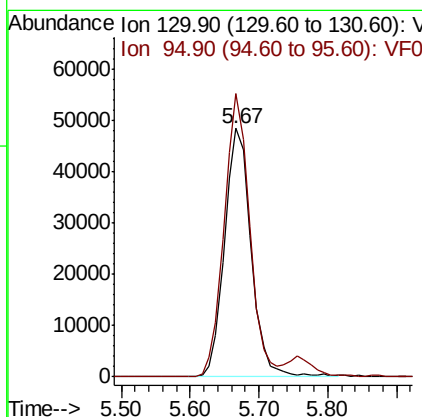
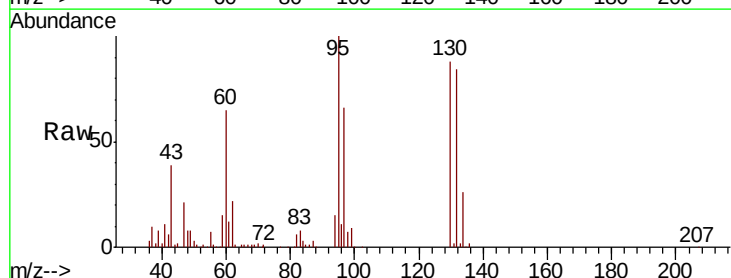
RT: 5.67 min Scan# 511

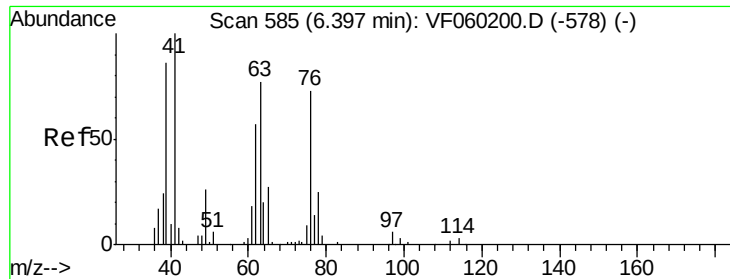
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	130	Resp:	129671
Ion	Ratio	Lower	Upper
130	100		
95	113.9	0.0	215.4





#45

1,2-Dichloropropane

Concen: 69.75 ug/l

RT: 6.40 min Scan# 585

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 92566

Ion Ratio Lower Upper

63 100

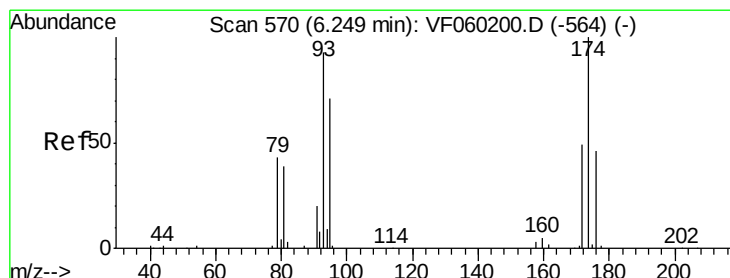
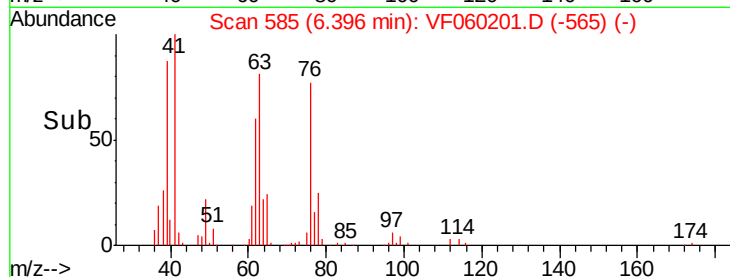
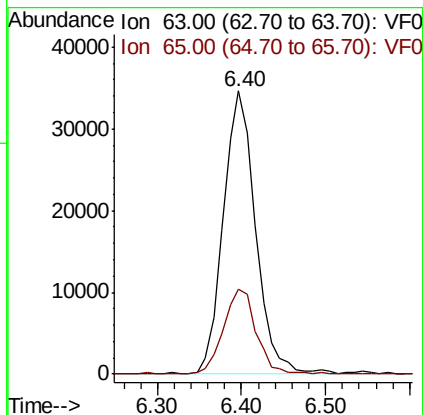
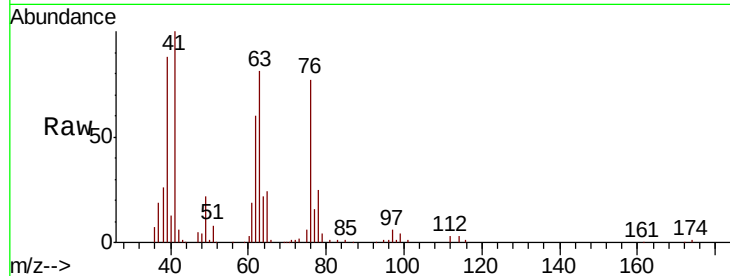
65 30.1 27.9 41.9

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#46

Dibromomethane

Concen: 75.15 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

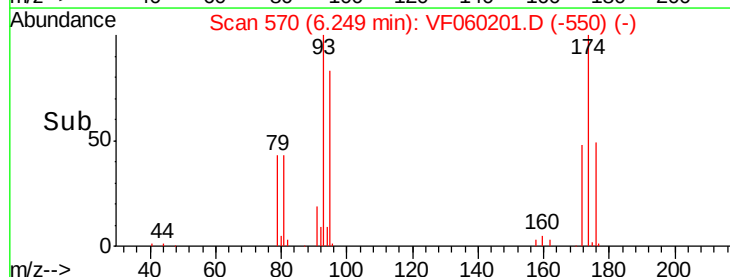
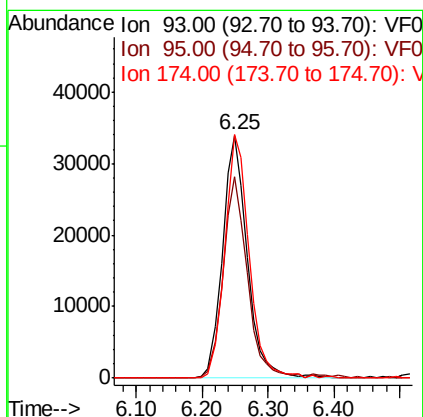
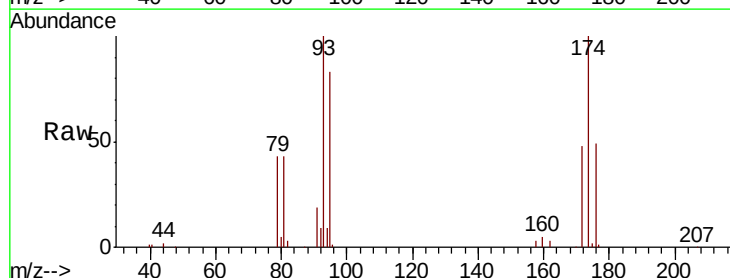
Tgt Ion: 93 Resp: 89128

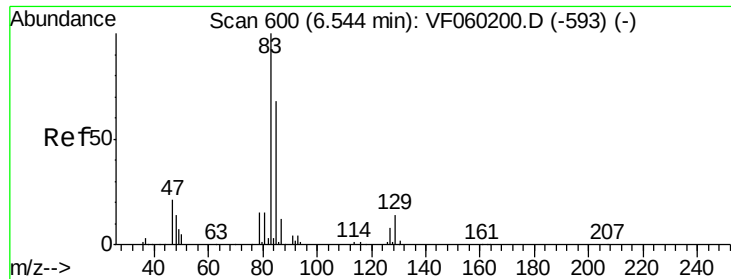
Ion Ratio Lower Upper

93 100

95 84.1 61.4 92.2

174 100.4 85.9 128.9





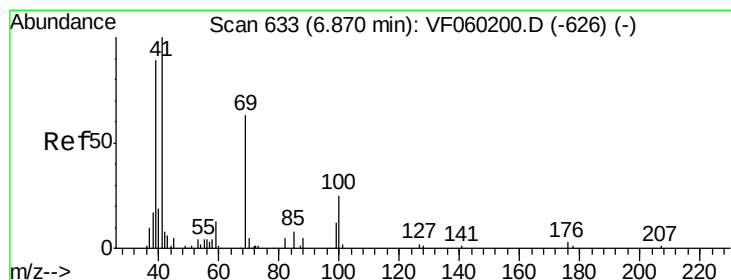
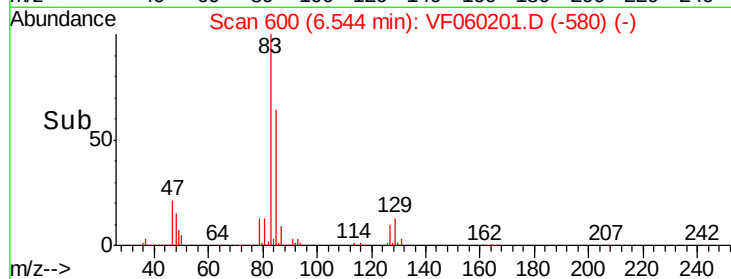
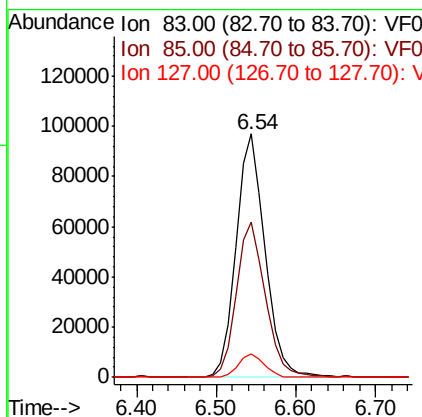
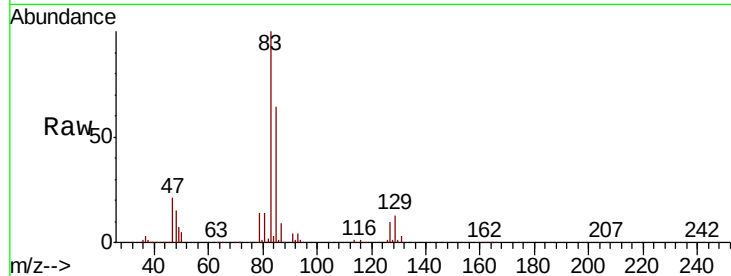
#47
Bromodichloromethane
Concen: 76.33 ug/l
RT: 6.54 min Scan# 600
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
83	100	244528		
85	63.7		54.0	81.0
127	9.6		6.6	9.8

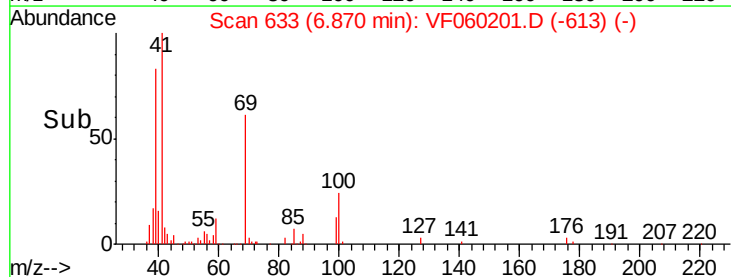
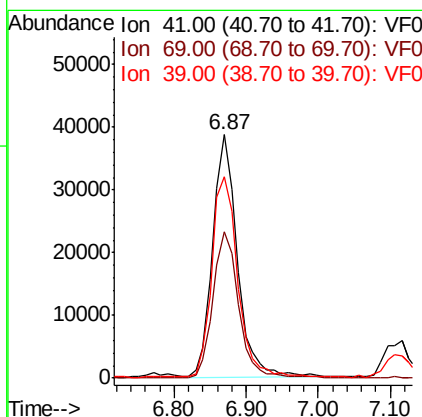
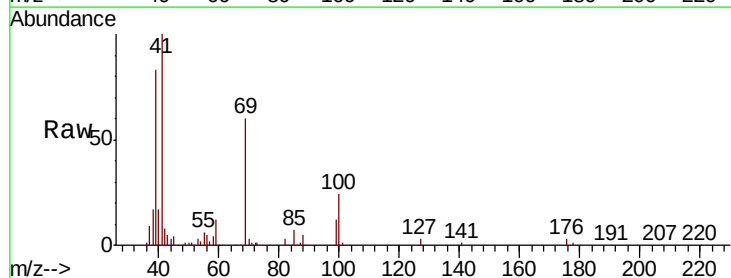
Manual Integrations
APPROVED

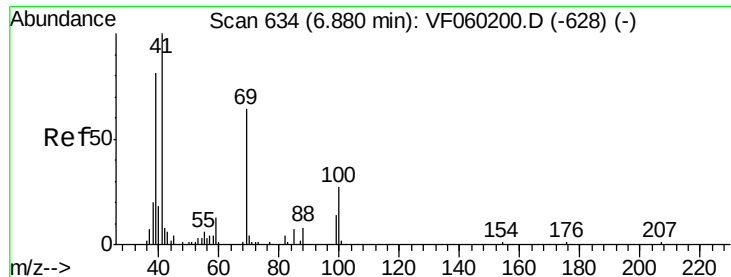
apatel
9/7/2018 10:49:53 AM



#48
Methyl methacrylate
Concen: 75.26 ug/l
RT: 6.87 min Scan# 633
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	91668		
69	60.1		50.4	75.6
39	82.9		70.6	106.0





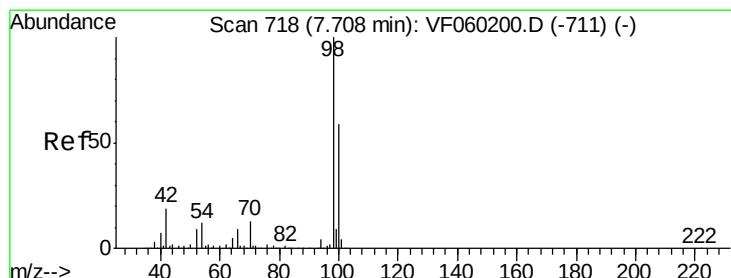
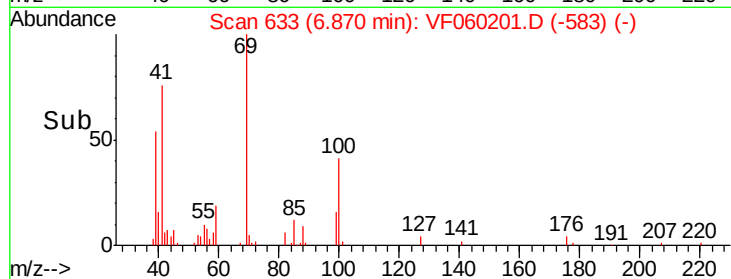
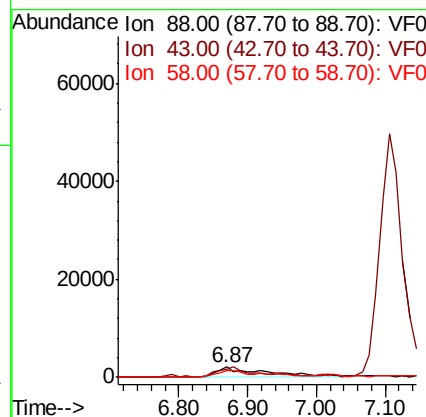
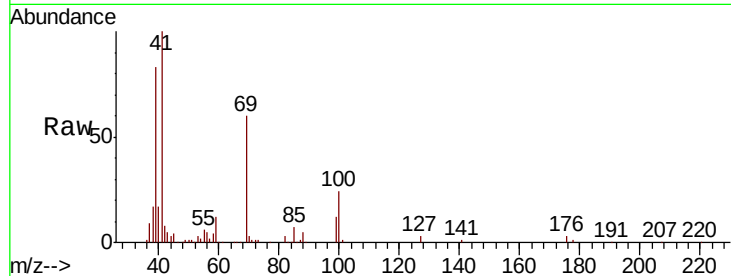
#49
 1,4-Dioxane
 Concen: 395.26 ug/l
 RT: 6.87 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
88	100		
43	83.9	68.1	102.1
58	68.2	38.1	57.1#

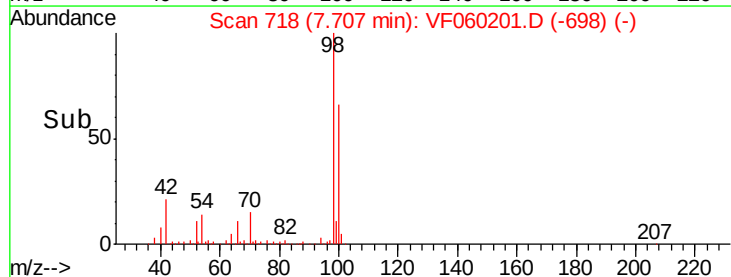
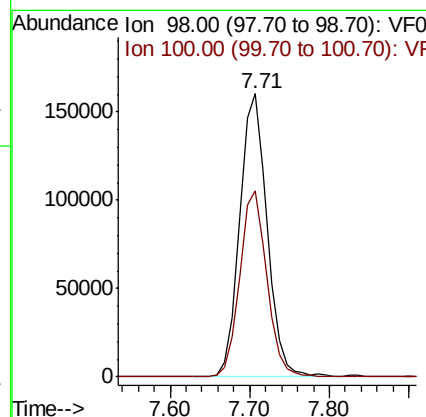
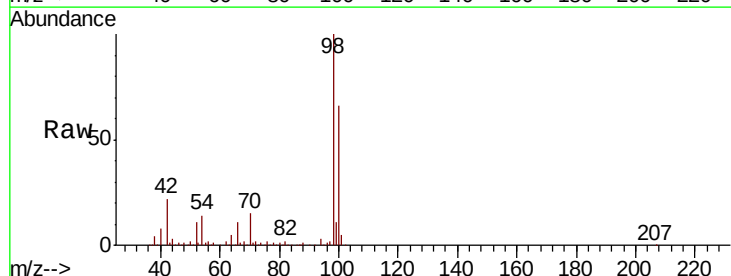
Manual Integrations
 APPROVED

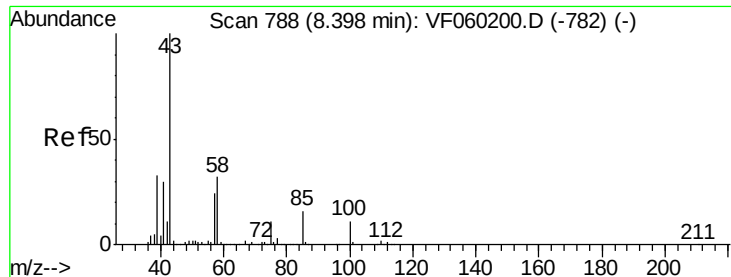
apatel
 9/7/2018 10:49:53 AM



#50
 Toluene-d8
 Concen: 70.36 ug/l
 RT: 7.71 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	47.4	71.0





#51

4-Methyl-2-Pentanone

Concen: 373.11 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 509993

Ion Ratio Lower Upper

43 100

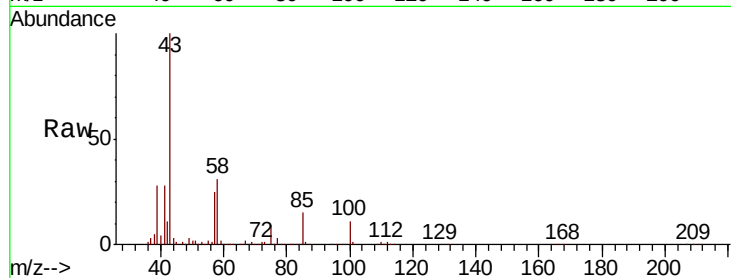
58 31.3 25.8 38.6

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

250000

200000

150000

100000

50000

0

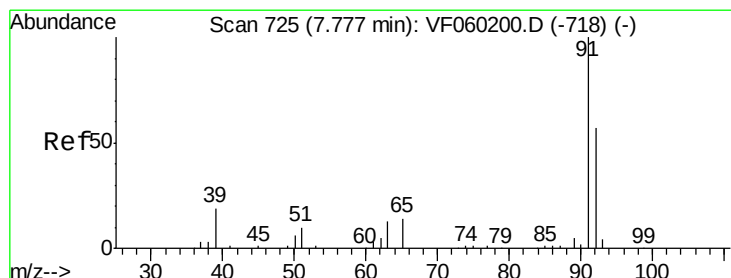
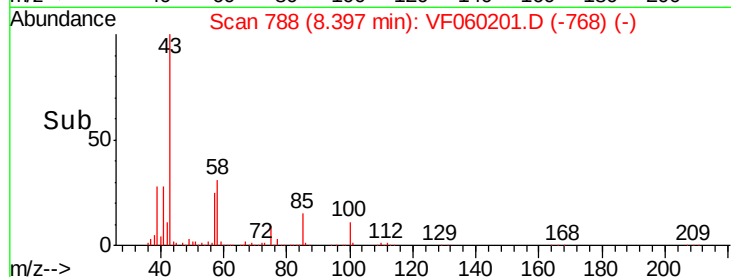
8.30

8.40

8.50

8.60

Time-->



#52

Toluene

Concen: 66.28 ug/l

RT: 7.78 min Scan# 725

Delta R.T. -0.00 min

Lab File: VF060201.D

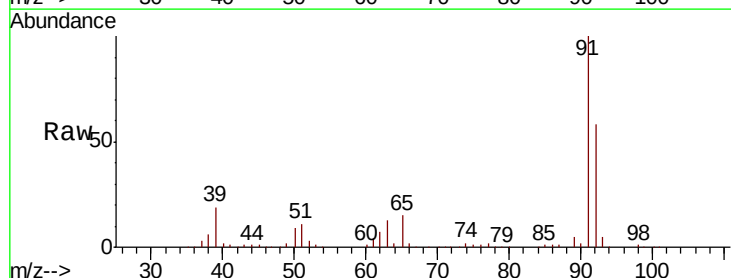
Acq: 6 Sep 2018 13:38

Tgt Ion: 92 Resp: 238534

Ion Ratio Lower Upper

92 100

91 172.1 140.0 210.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

50000

0

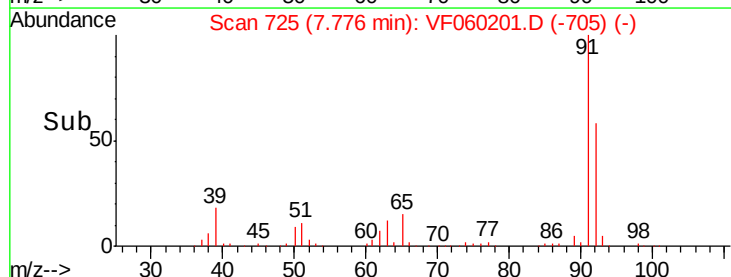
7.60

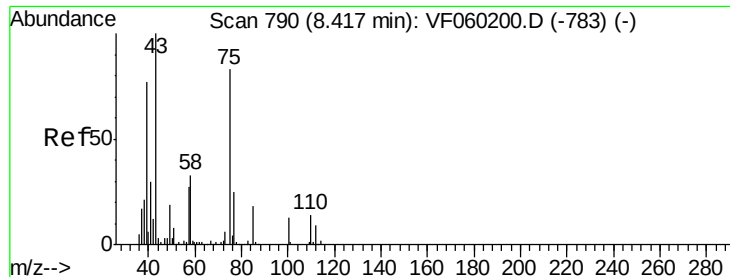
7.70

7.80

7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 73.17 ug/l

RT: 8.43 min Scan# 791

Delta R.T. 0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 75 Resp: 195595

Ion Ratio Lower Upper

75 100

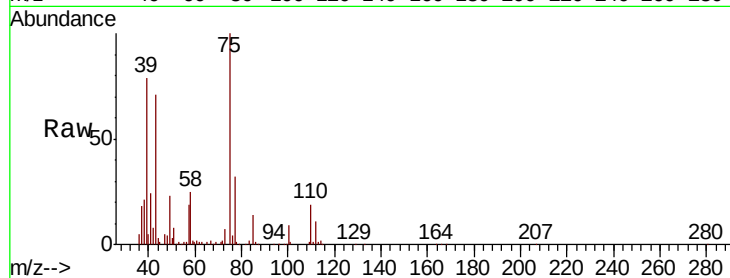
77 32.2 24.3 36.5

Manual Integrations

APPROVED

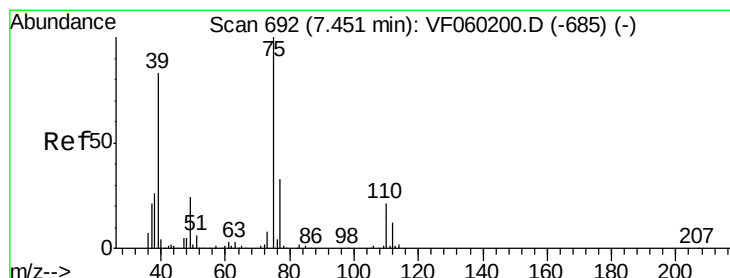
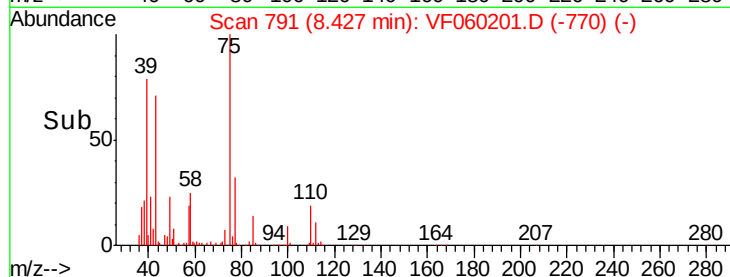
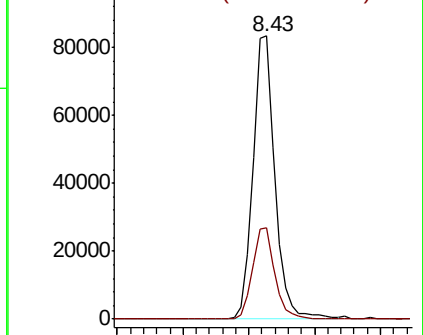
apatel

9/7/2018 10:49:53 AM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 71.53 ug/l

RT: 7.45 min Scan# 692

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

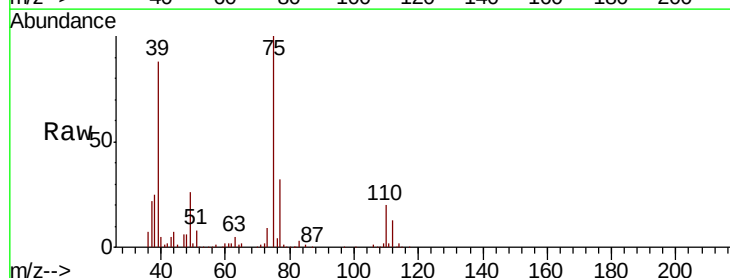
Tgt Ion: 75 Resp: 196195

Ion Ratio Lower Upper

75 100

77 31.7 26.6 39.8

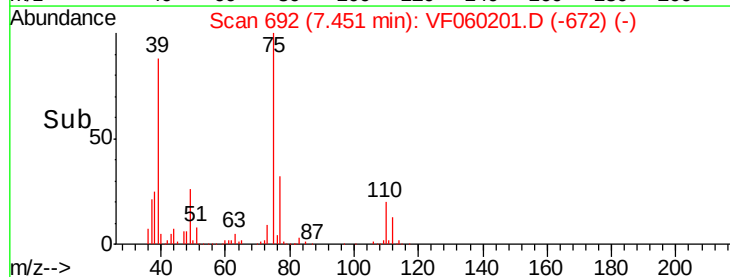
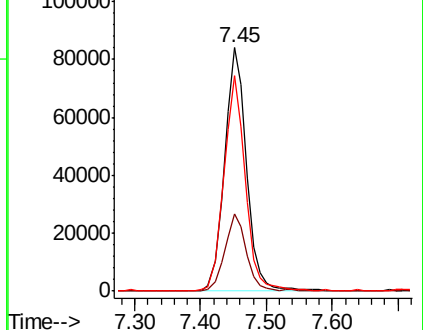
39 88.4 66.6 100.0

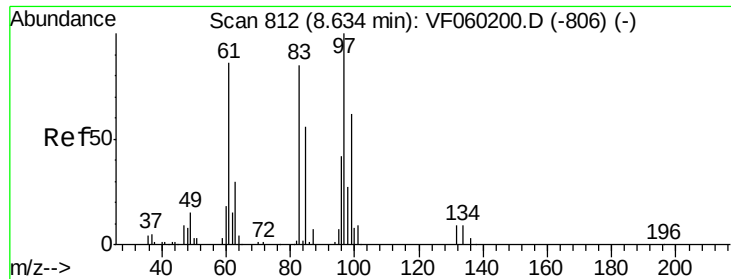


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 73.38 ug/l

RT: 8.63 min Scan# 812

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

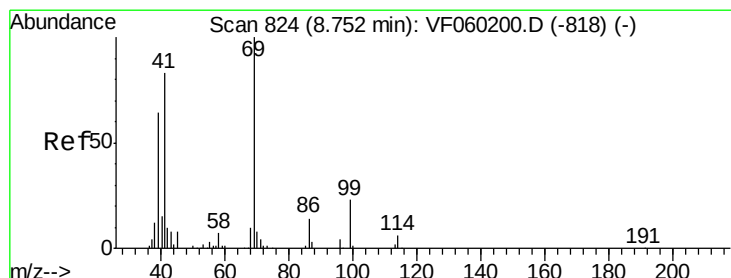
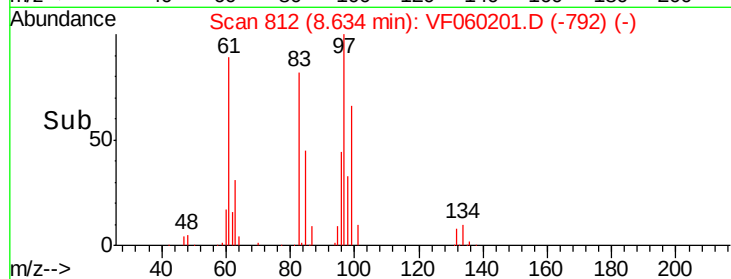
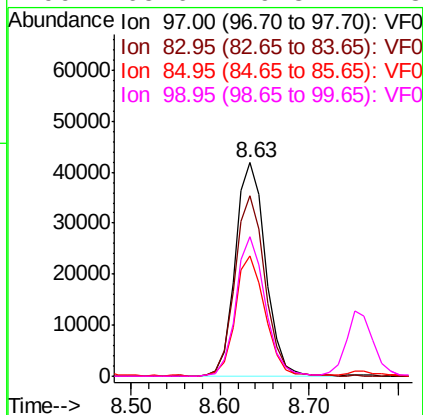
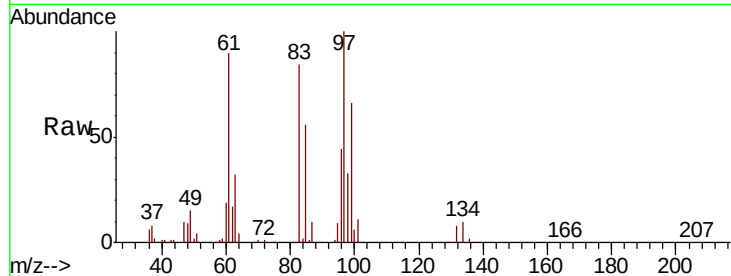
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	99283
Ion	Ratio	Lower	Upper
97	100		
83	84.3	68.1	102.1
85	56.4	44.6	66.8
99	65.6	49.8	74.8

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#56

Ethyl methacrylate

Concen: 78.92 ug/l

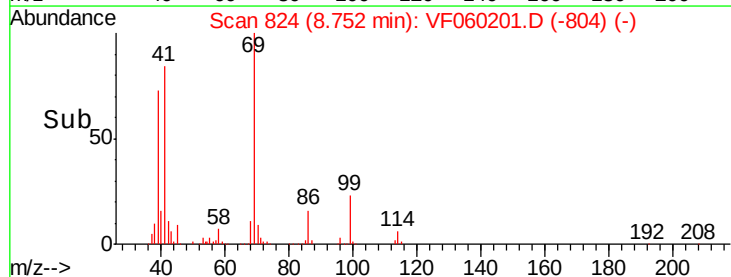
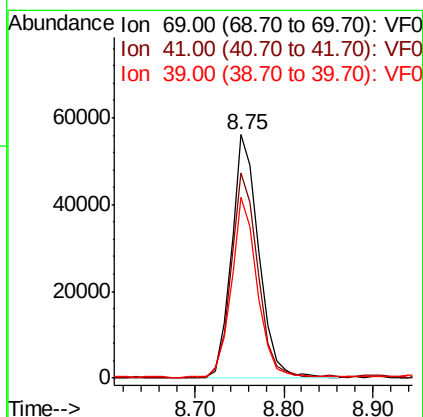
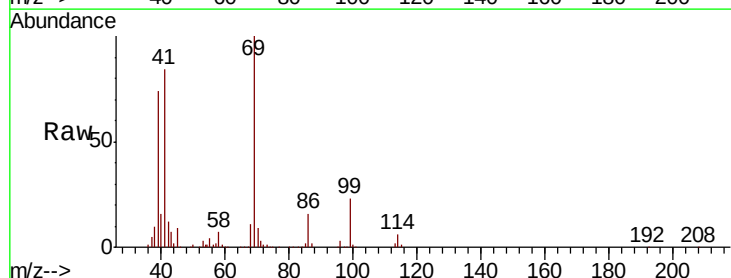
RT: 8.75 min Scan# 824

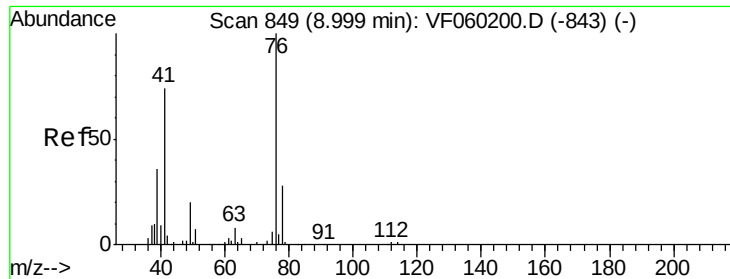
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	69	Resp:	120231
Ion	Ratio	Lower	Upper
69	100		
41	84.4	66.6	100.0
39	74.2	51.5	77.3





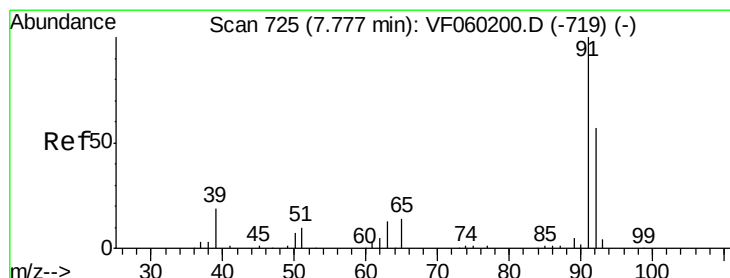
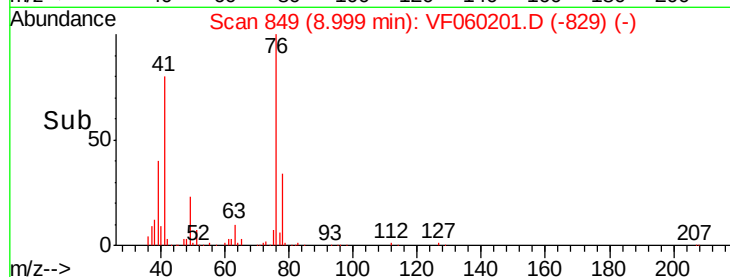
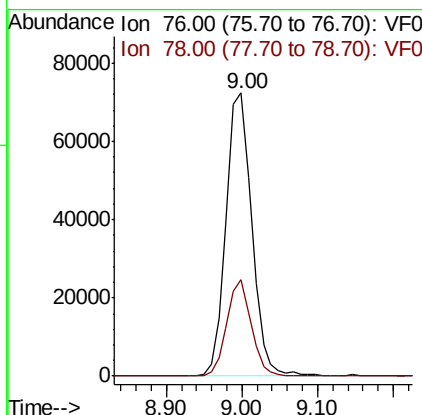
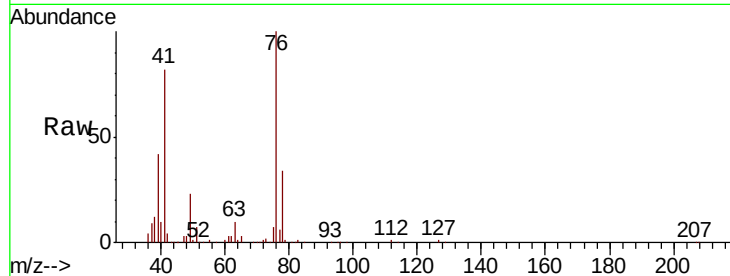
#57
 1,3-Dichloropropane
 Concen: 71.90 ug/l
 RT: 9.00 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion: 76 Resp: 171270
 Ion Ratio Lower Upper
 76 100
 78 34.0 22.8 34.2

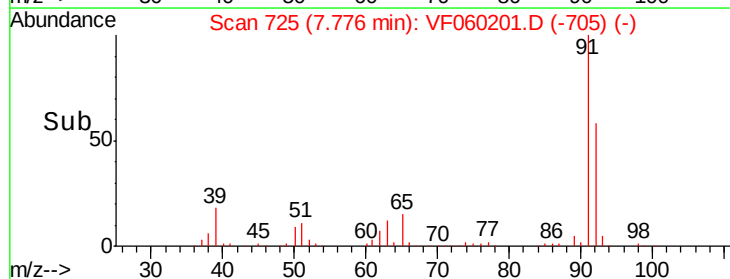
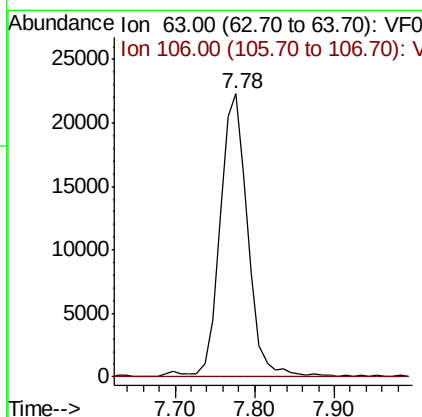
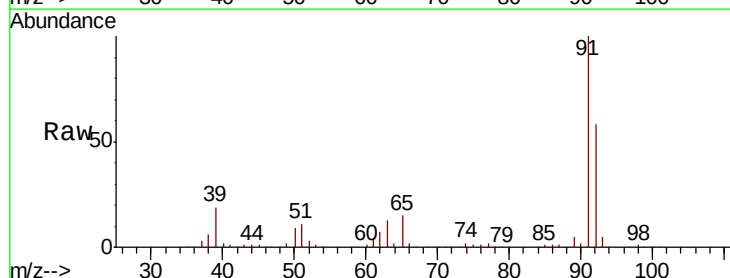
Manual Integrations
 APPROVED

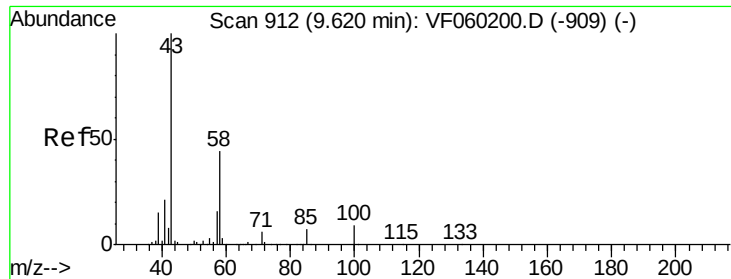
apatel
 9/7/2018 10:49:53 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 333.52 ug/l
 RT: 7.78 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion: 63 Resp: 54160
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0





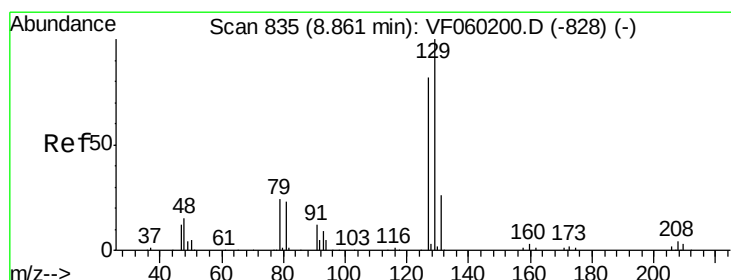
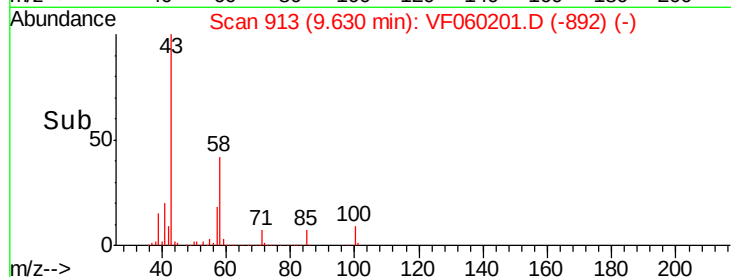
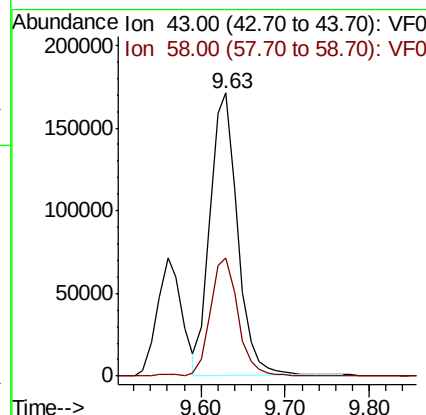
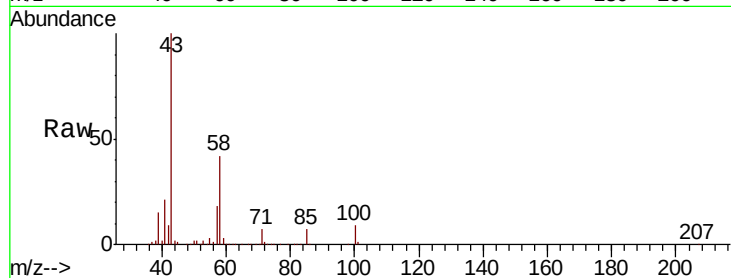
#59
2-Hexanone
Concen: 374.72 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.9	20.8	62.5

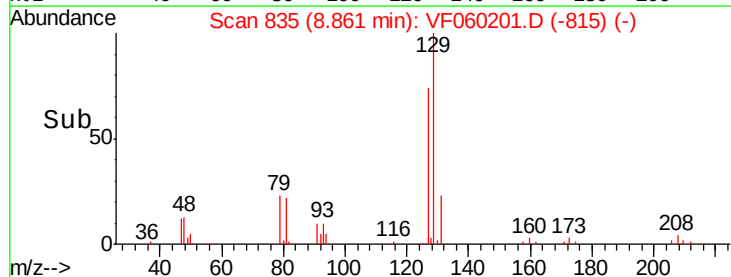
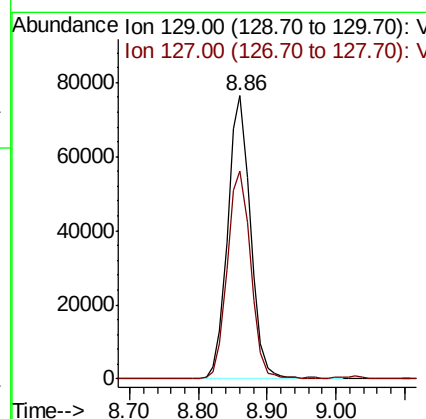
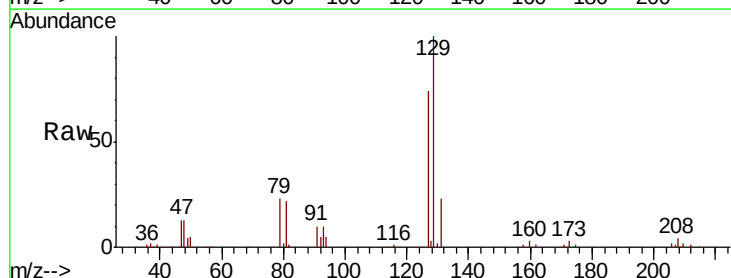
Manual Integrations
APPROVED

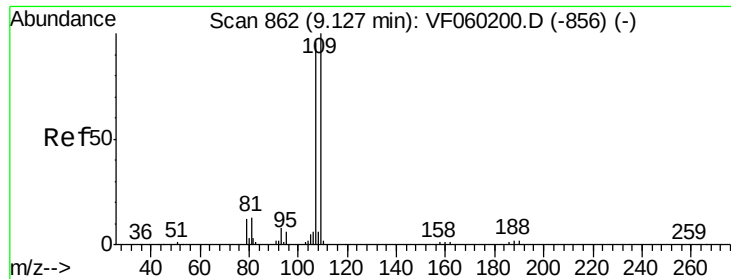
apatel
9/7/2018 10:49:53 AM



#60
Dibromochloromethane
Concen: 78.58 ug/l
RT: 8.86 min Scan# 835
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.5	40.9	122.8





#61

1,2-Dibromoethane

Concen: 76.80 ug/l

RT: 9.13 min Scan# 862

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 123959

Ion Ratio Lower Upper

107 100

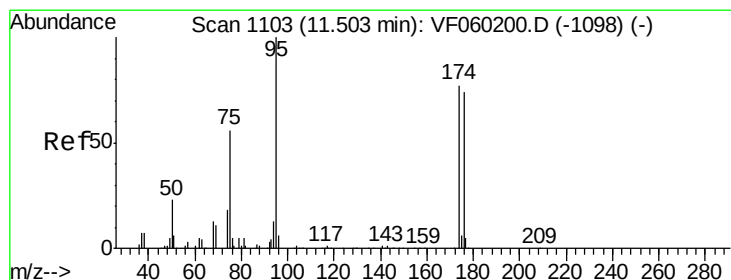
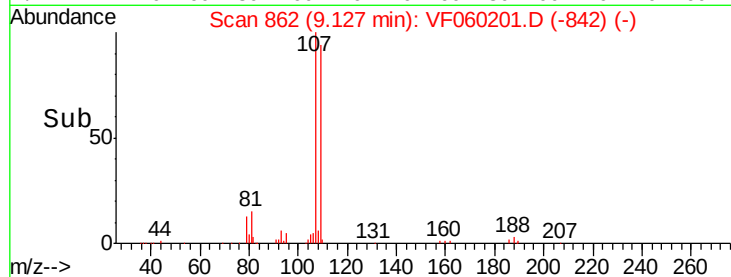
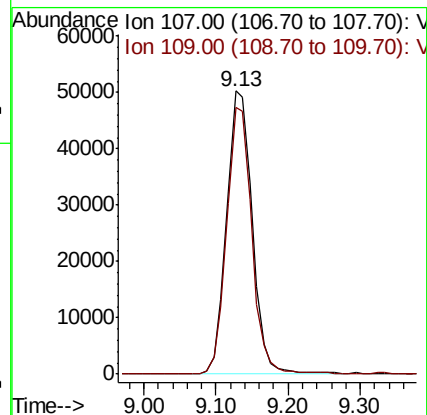
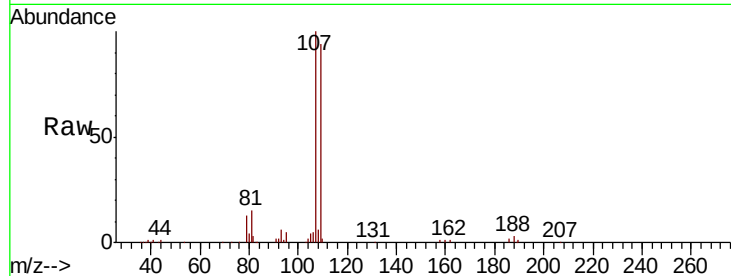
109 94.0 83.0 124.4

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#62

4-Bromofluorobenzene

Concen: 67.71 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

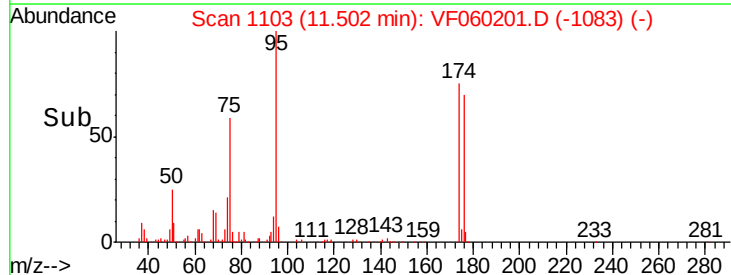
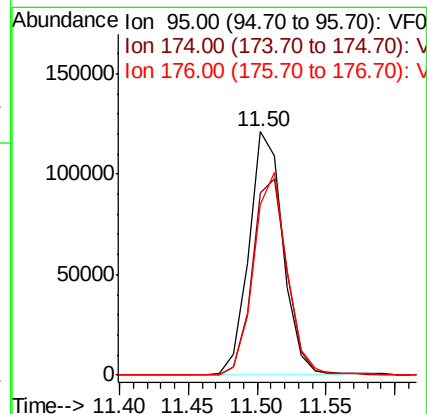
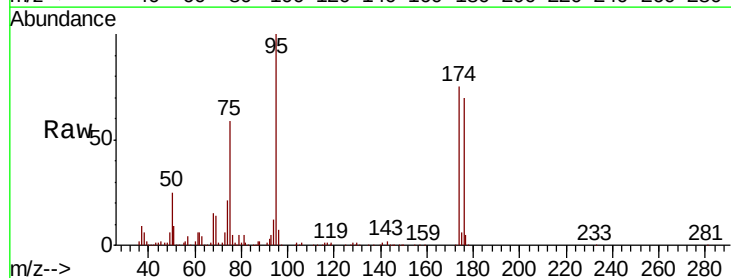
Tgt Ion: 95 Resp: 209300

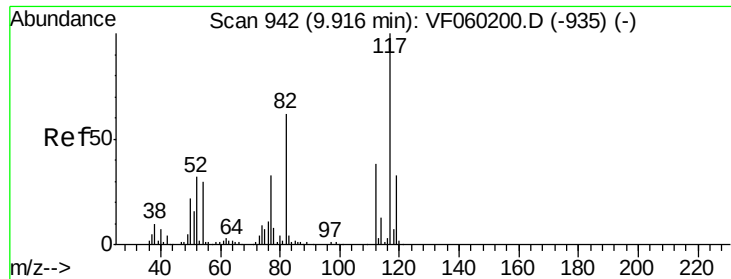
Ion Ratio Lower Upper

95 100

174 74.8 0.0 153.2

176 70.2 0.0 147.2





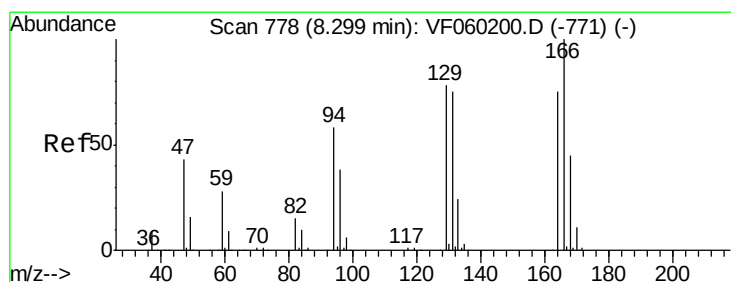
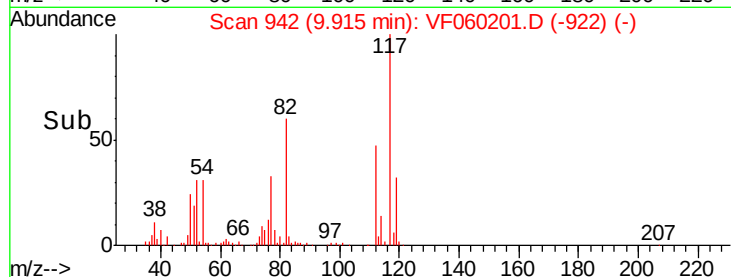
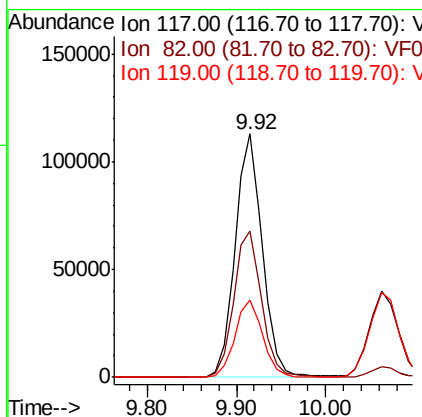
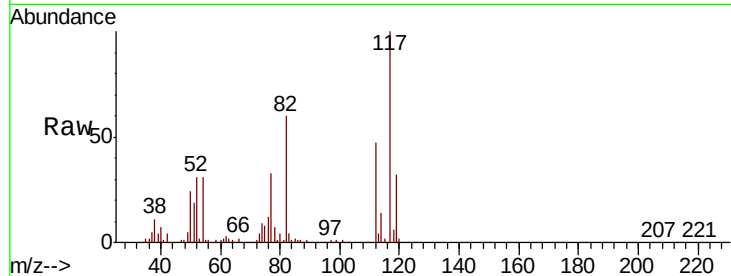
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	240113		
82	59.9		49.3	73.9
119	31.7		26.5	39.7

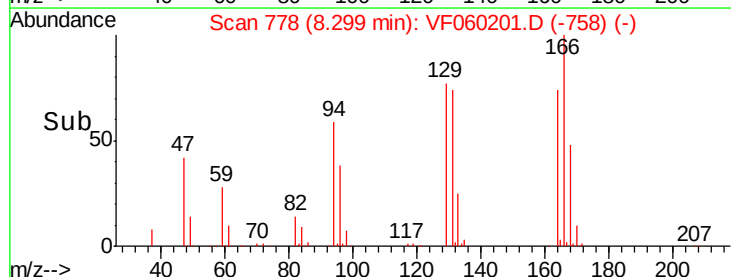
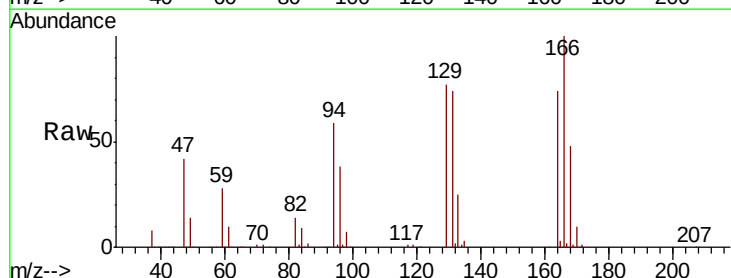
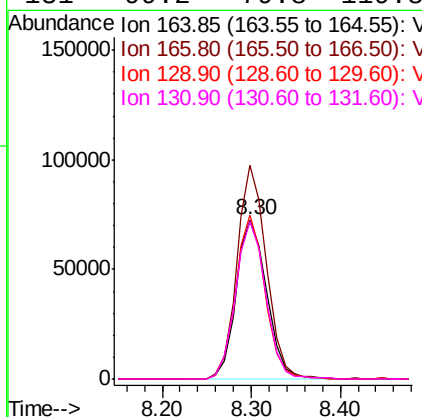
Manual Integrations
APPROVED

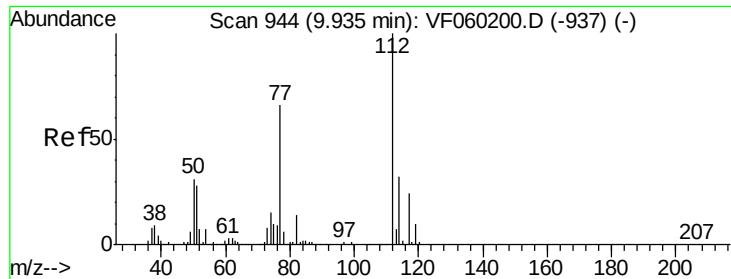
apatel
9/7/2018 10:49:53 AM



#64
Tetrachloroethene
Concen: 61.93 ug/l
RT: 8.30 min Scan# 778
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	172969		
166	134.2		107.0	160.4
129	103.2		83.0	124.6
131	99.2		79.8	119.8





#65

Chlorobenzene

Concen: 69.00 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:112 Resp: 341462

Ion Ratio Lower Upper

112 100

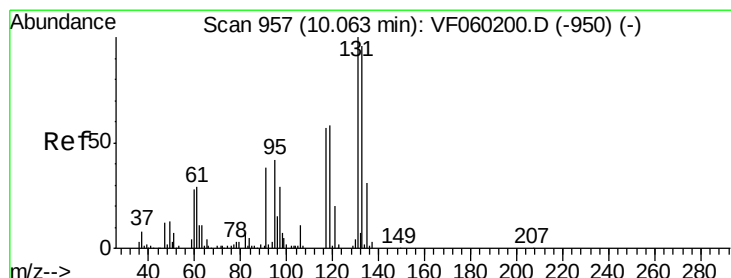
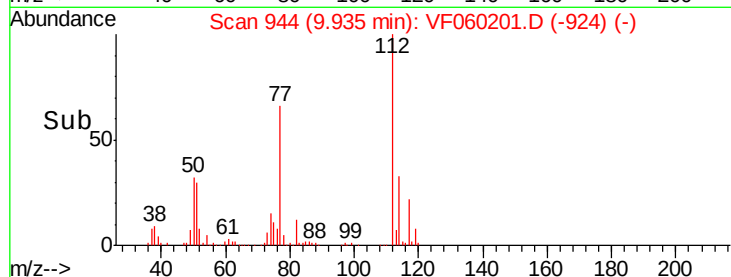
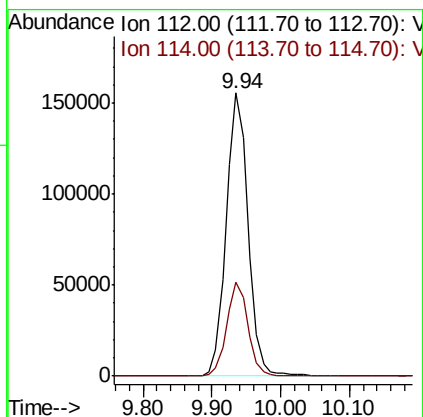
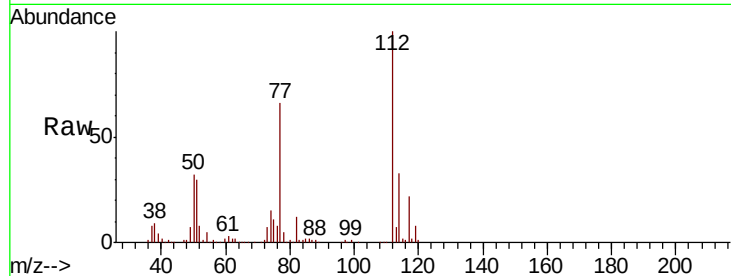
114 33.1 25.7 38.5

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 69.10 ug/l

RT: 10.06 min Scan# 957

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

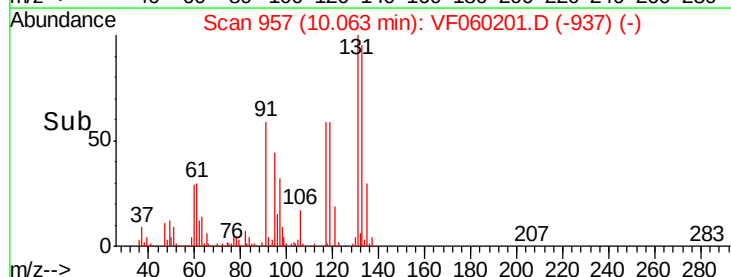
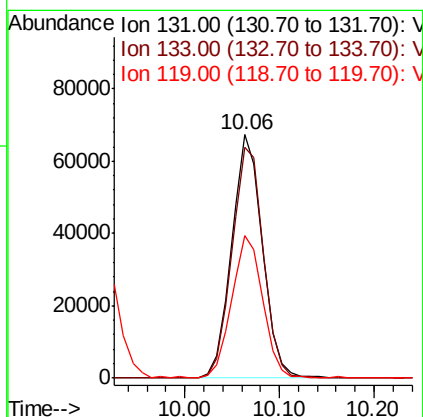
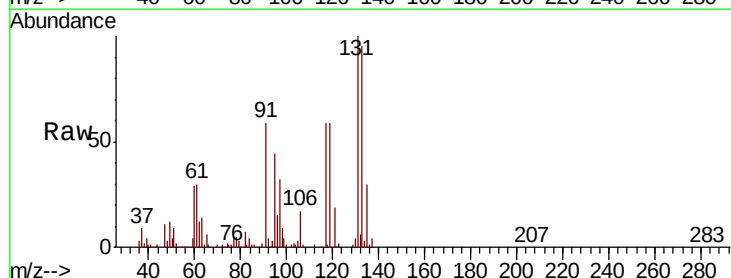
Tgt Ion:131 Resp: 150890

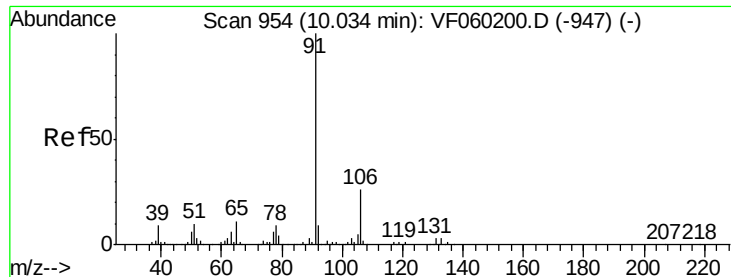
Ion Ratio Lower Upper

131 100

133 94.6 47.9 143.8

119 58.6 29.0 87.0





#67

Ethyl Benzene

Concen: 68.15 ug/l

RT: 10.03 min Scan# 954

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 625399

Ion Ratio Lower Upper

91 100

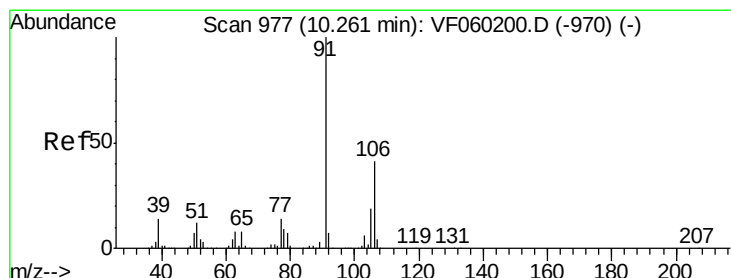
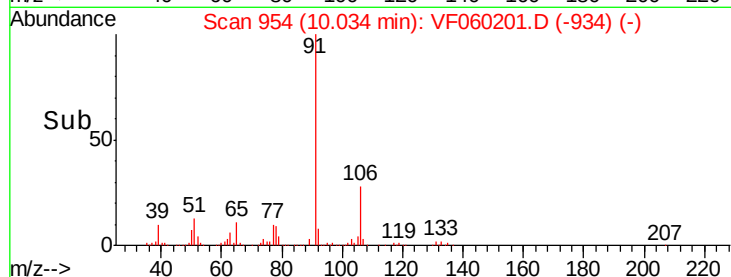
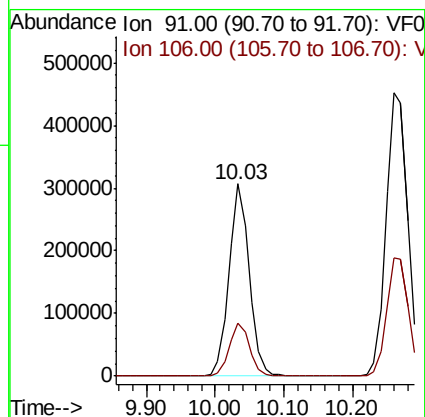
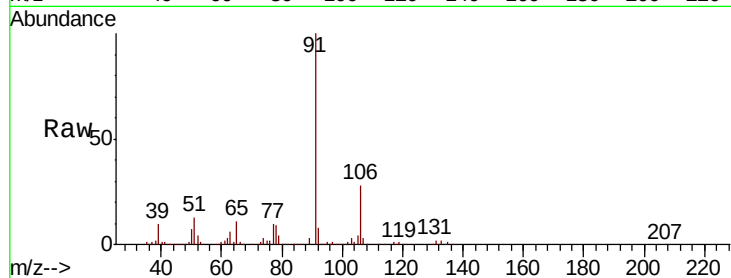
106 27.6 21.1 31.7

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#68

m/p-Xylenes

Concen: 136.37 ug/l

RT: 10.26 min Scan# 977

Delta R.T. -0.00 min

Lab File: VF060201.D

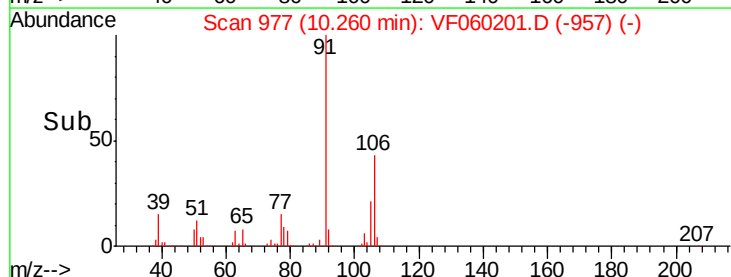
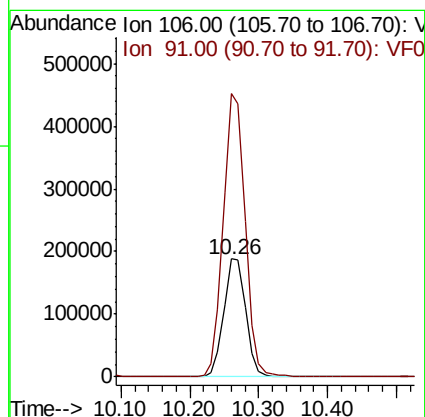
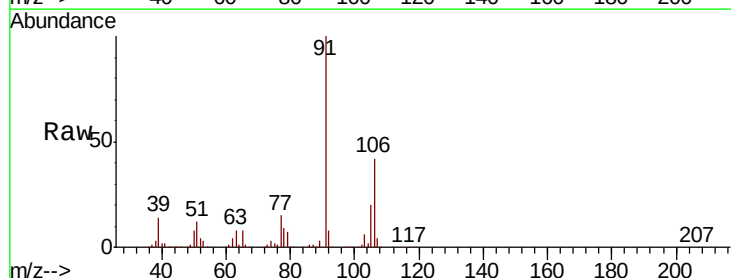
Acq: 6 Sep 2018 13:38

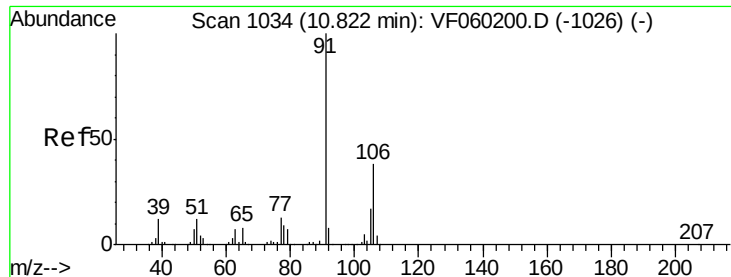
Tgt Ion: 106 Resp: 419370

Ion Ratio Lower Upper

106 100

91 240.1 194.6 291.8





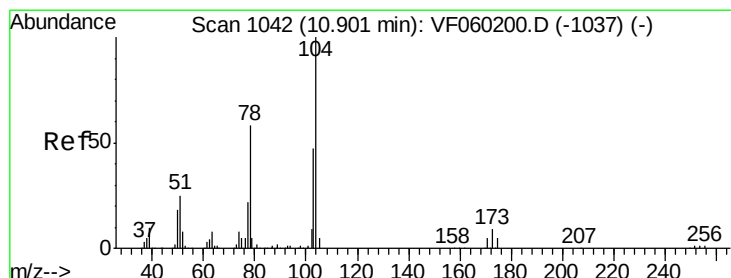
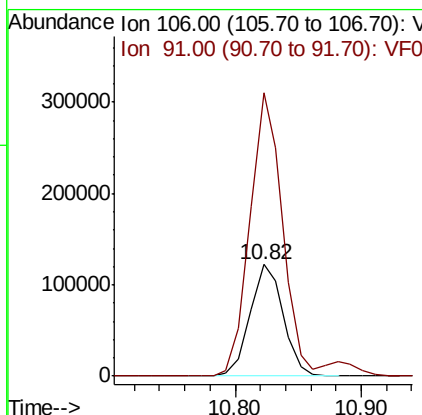
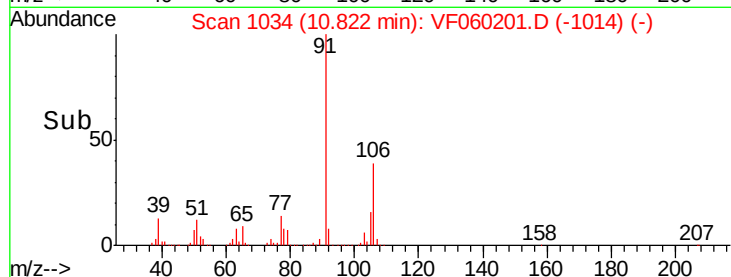
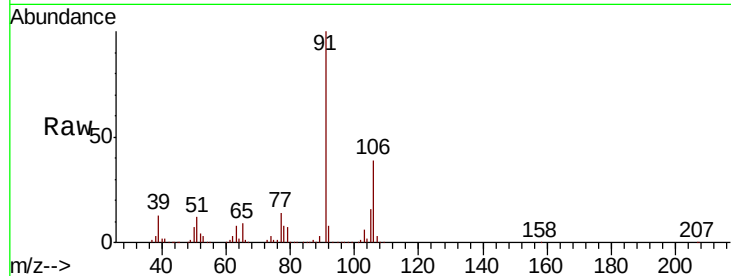
#69
o-Xylene
Concen: 68.04 ug/l
RT: 10.82 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		224560		
91	254.2	130.5	391.5		

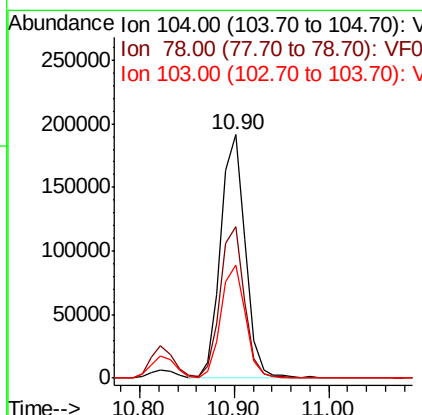
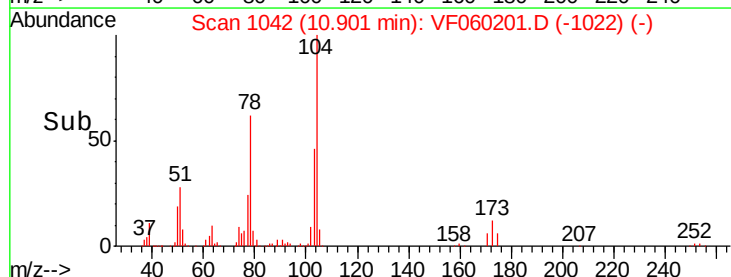
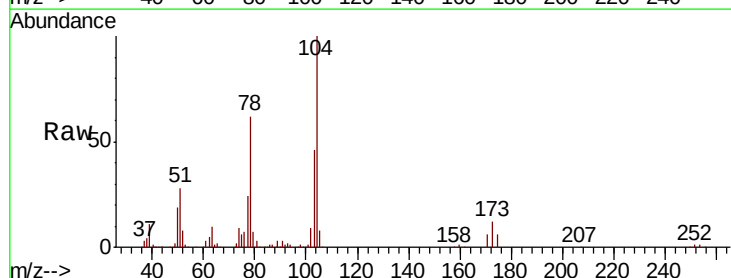
Manual Integrations
APPROVED

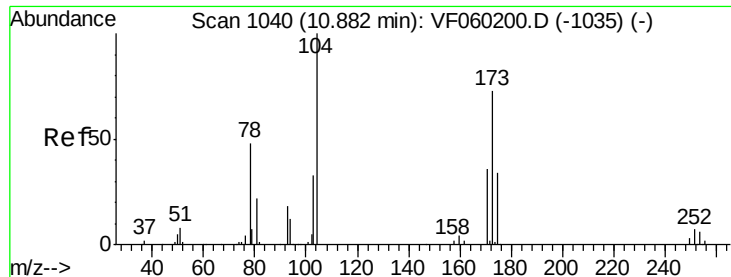
apatel
9/7/2018 10:49:53 AM



#70
Styrene
Concen: 69.24 ug/l
RT: 10.90 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		345628		
78	62.3	47.1	70.7		
103	46.3	38.6	57.8		





#71

Bromoform

Concen: 79.08 ug/l

RT: 10.88 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

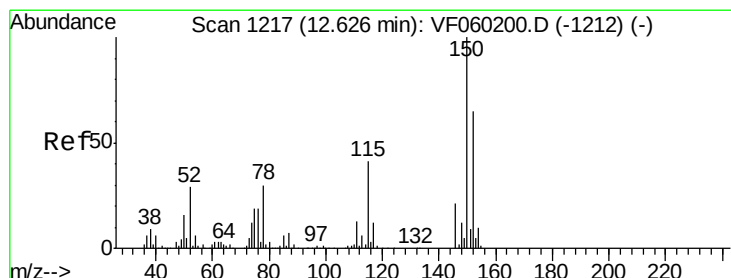
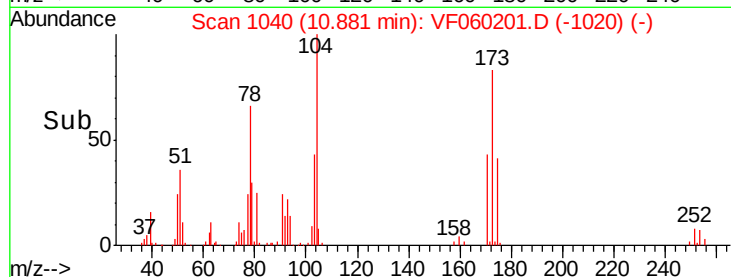
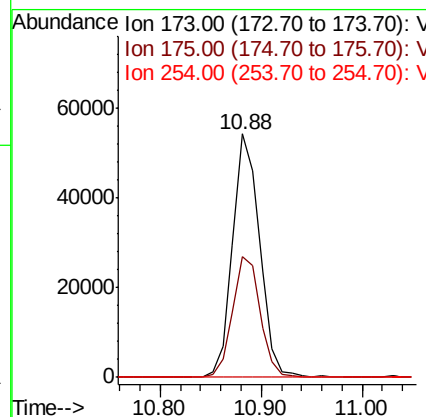
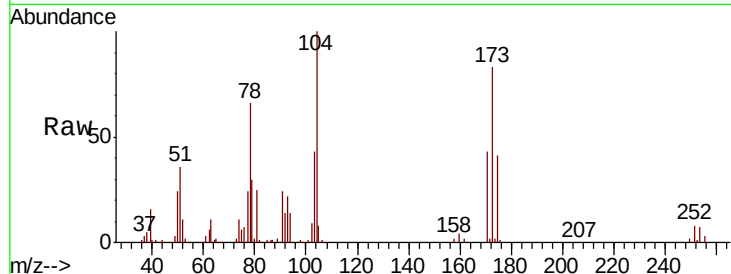
ClientSampleId :

VSTDIC075

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	23.1	69.3
254	0.0	0.2	0.4

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

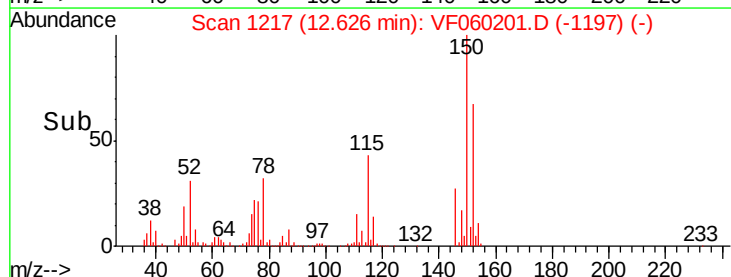
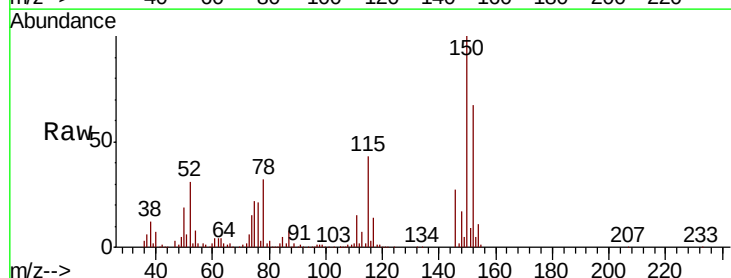
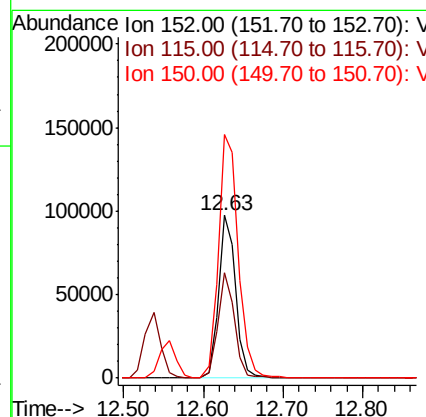
RT: 12.63 min Scan# 1217

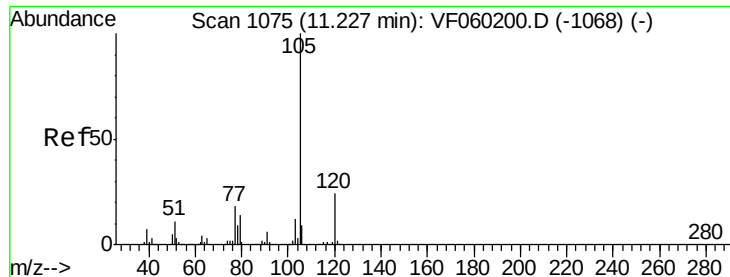
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.6	31.5	94.5
150	149.6	0.0	310.4





#73

Isopropylbenzene

Concen: 69.46 ug/l

RT: 11.23 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 105 Resp: 710277

Ion Ratio Lower Upper

105 100

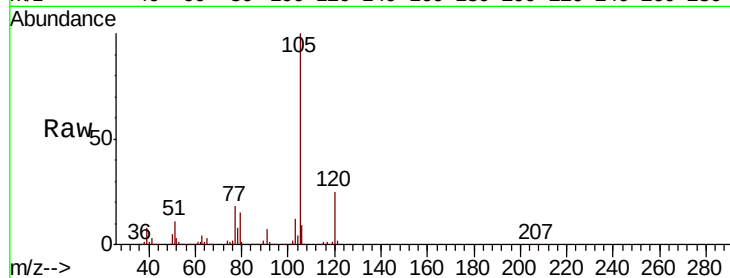
120 24.8 11.8 35.3

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

400000

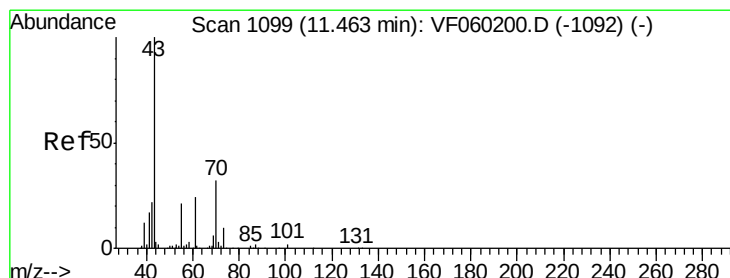
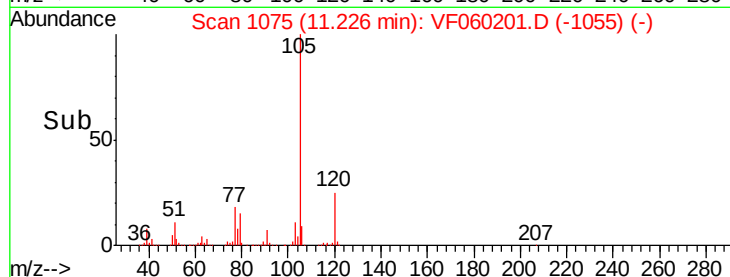
300000

200000

100000

0

Time--> 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 90.47 ug/l

RT: 11.46 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion: 43 Resp: 153977

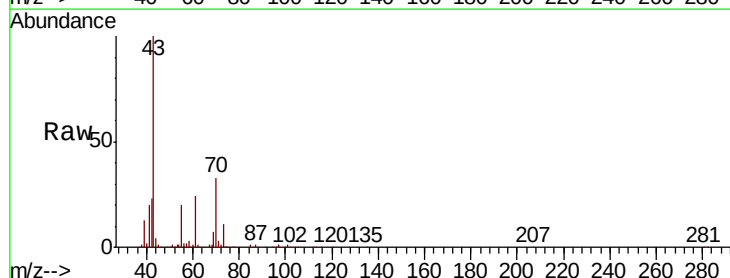
Ion Ratio Lower Upper

43 100

70 33.1 25.8 38.6

55 20.5 16.8 25.2

61 23.7 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.46

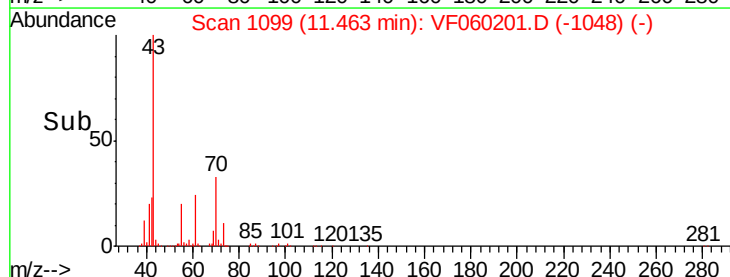
150000

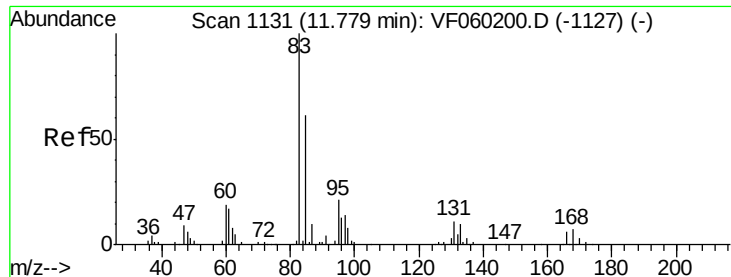
100000

50000

0

Time--> 11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 77.02 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

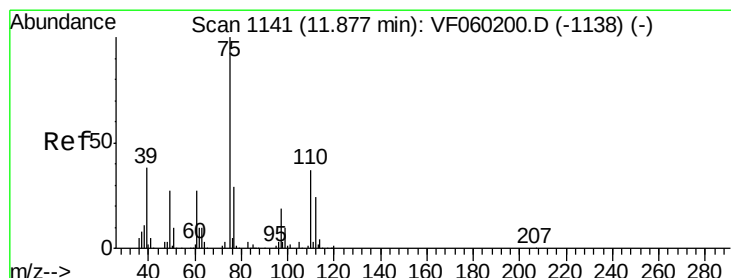
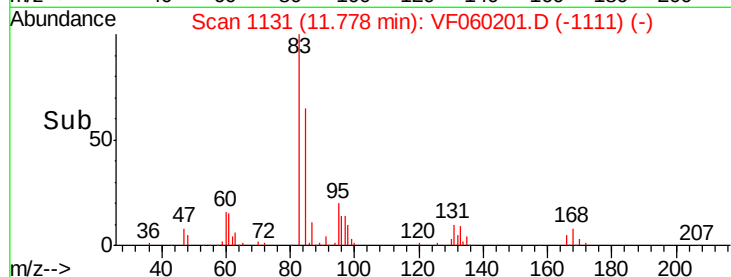
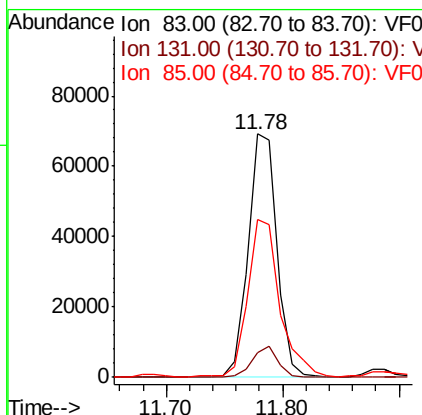
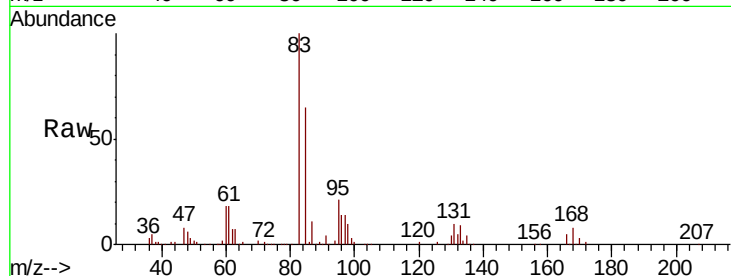
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	118291
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.5	16.4
85	65.0	31.1	93.5

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#76

1,2,3-Trichloropropane

Concen: 72.71 ug/l

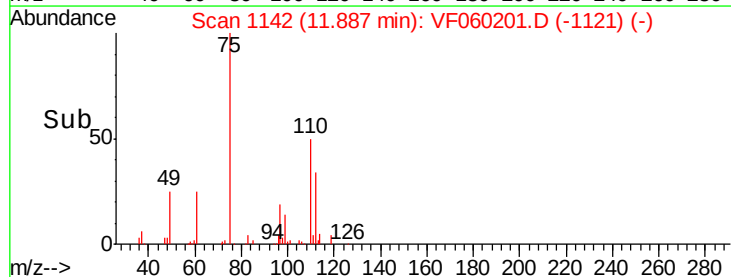
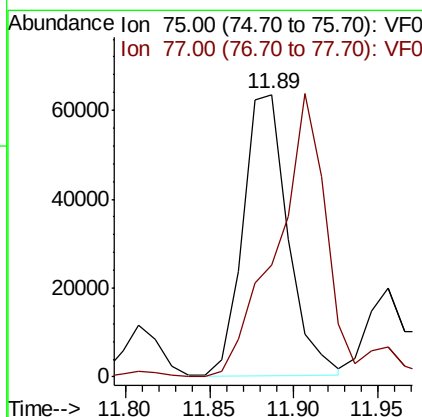
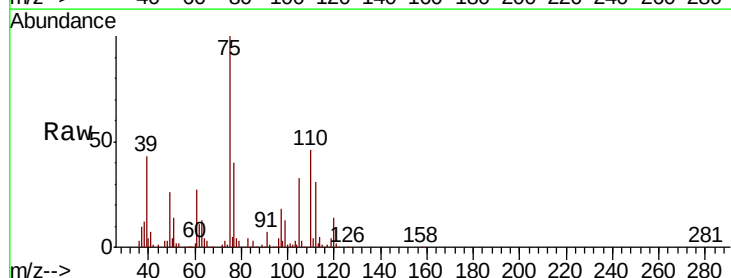
RT: 11.89 min Scan# 1142

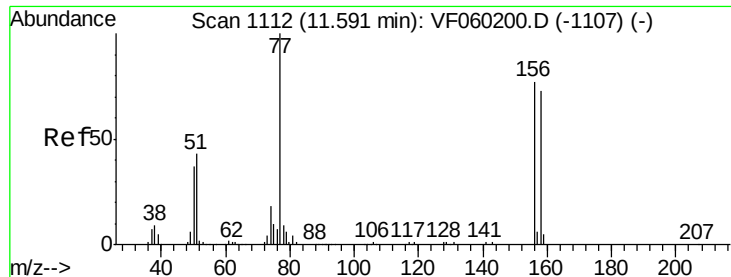
Delta R.T. 0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	75	Resp:	118102
Ion Ratio	Lower	Upper	
75	100		
77	39.7	14.6	43.8





#77

Bromobenzene

Concen: 66.57 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

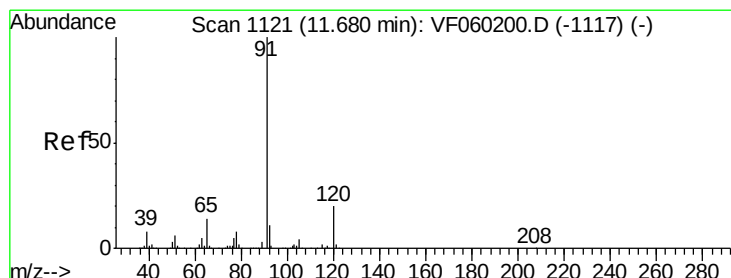
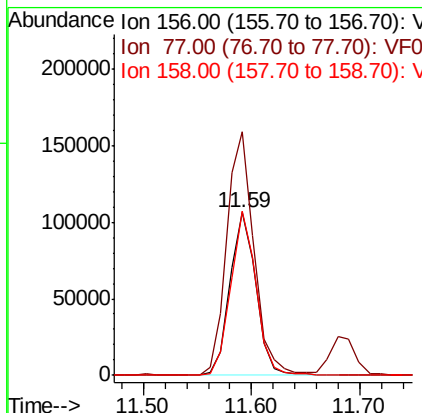
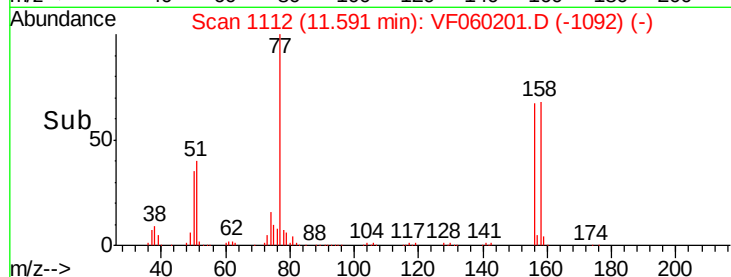
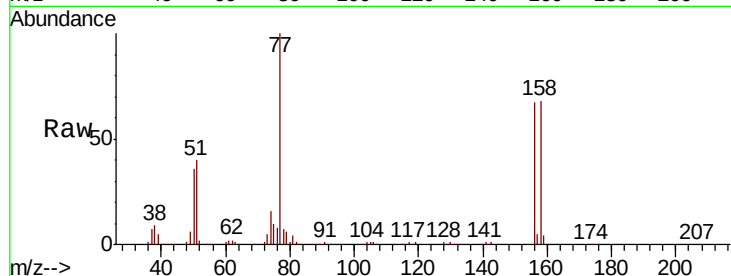
ClientSampleId :

VSTDIC075

Tot Ion:	156	Resp:	177587
Ion Ratio	Lower	Upper	
156	100		
77	149.6	64.8	194.3
158	101.3	47.3	141.8

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#78

n-propylbenzene

Concen: 67.71 ug/l

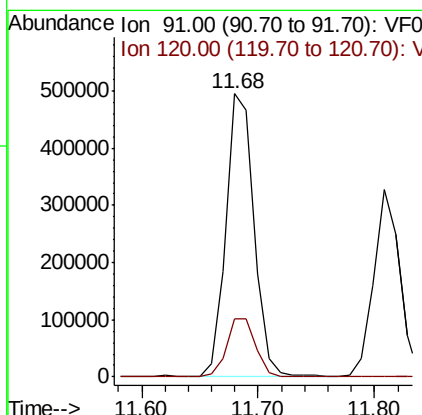
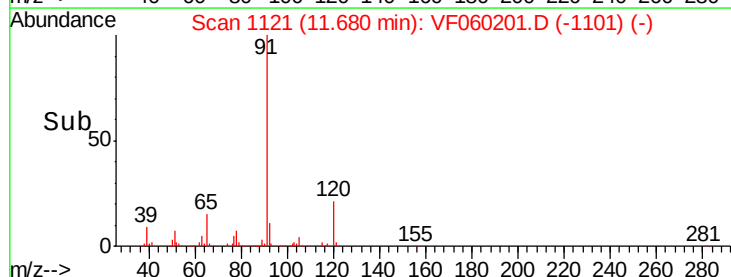
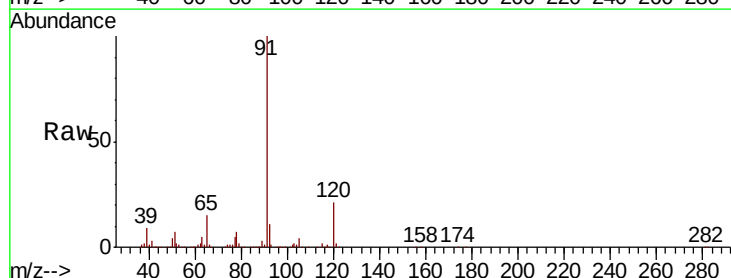
RT: 11.68 min Scan# 1121

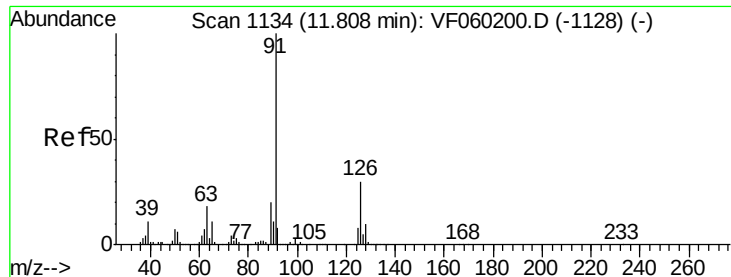
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	91	Resp:	826248
Ion Ratio	Lower	Upper	
91	100		
120	20.5	9.8	29.4





#79

2-Chlorotoluene

Concen: 68.31 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 504218

Ion Ratio Lower Upper

91 100

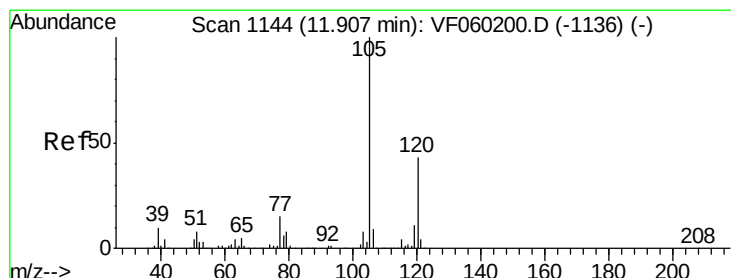
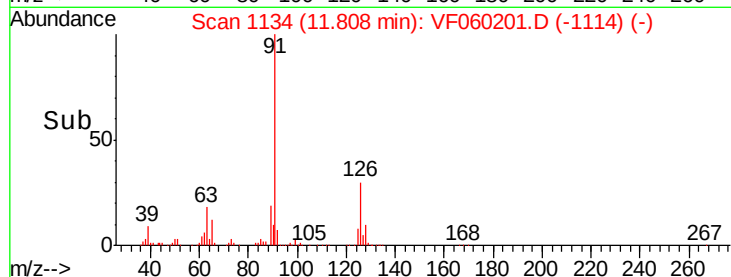
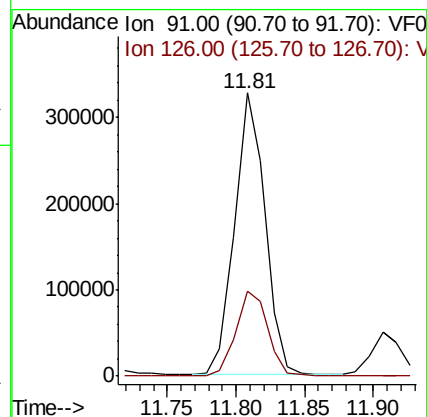
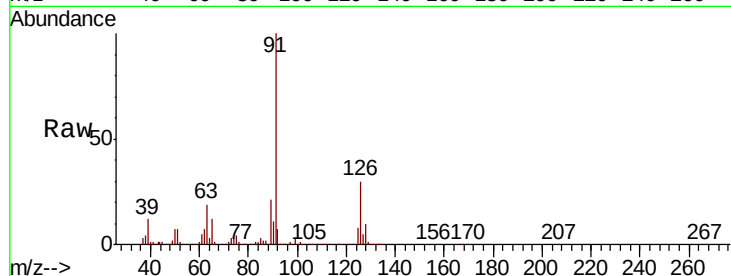
126 30.2 15.2 45.5

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#80

1,3,5-Trimethylbenzene

Concen: 69.82 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VF060201.D

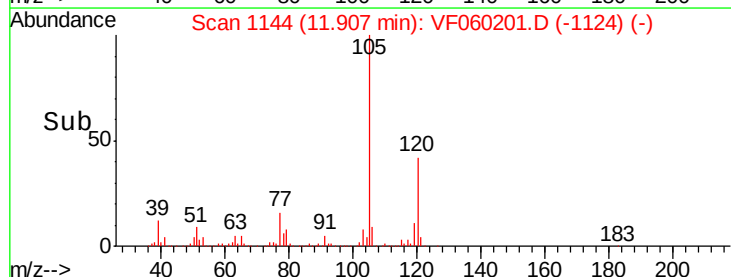
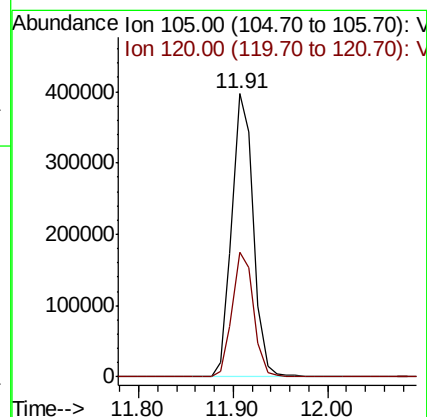
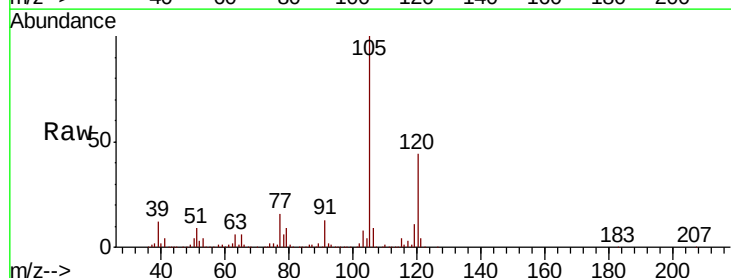
Acq: 6 Sep 2018 13:38

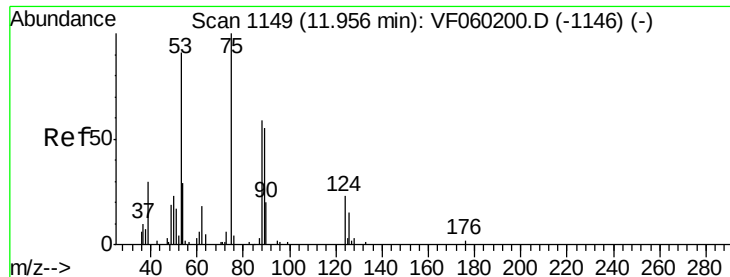
Tgt Ion: 105 Resp: 628645

Ion Ratio Lower Upper

105 100

120 44.0 21.6 64.8





#81

trans-1,4-Dichloro-2-butene

Concen: 66.78 ug/l m

RT: 11.96 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 75 Resp: 35003

Ion Ratio Lower Upper

75 100

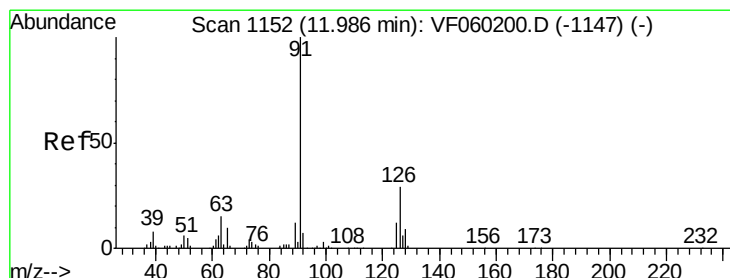
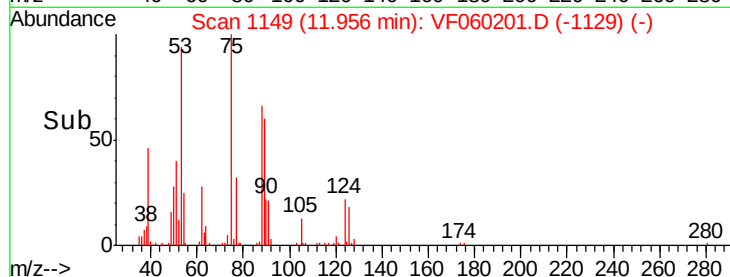
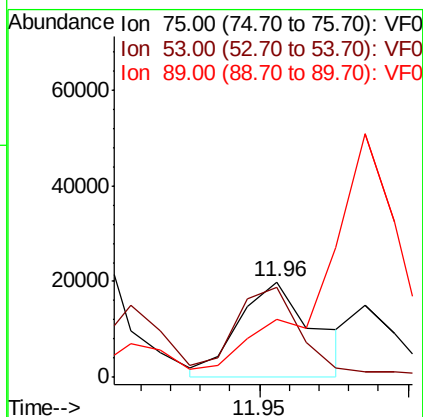
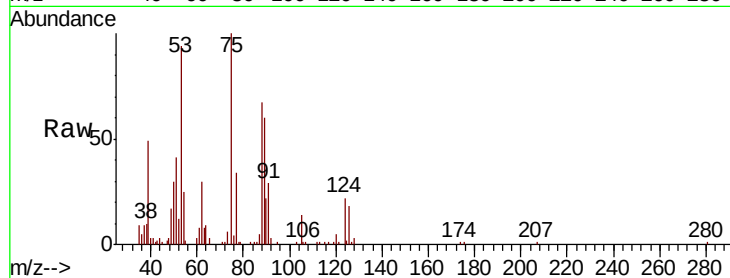
53 93.5 76.5 114.7

89 59.9 46.5 69.7

Manual Integrations
APPROVED

apatel

9/7/2018 10:49:53 AM



#82

4-Chlorotoluene

Concen: 68.67 ug/l

RT: 11.99 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF060201.D

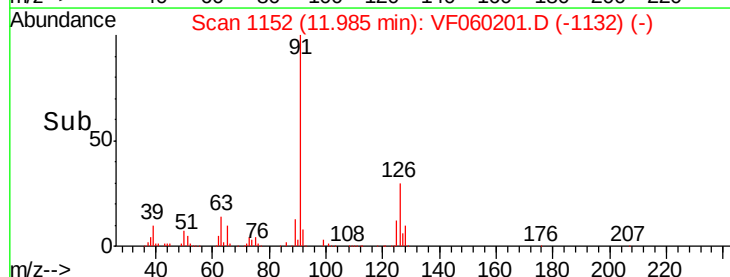
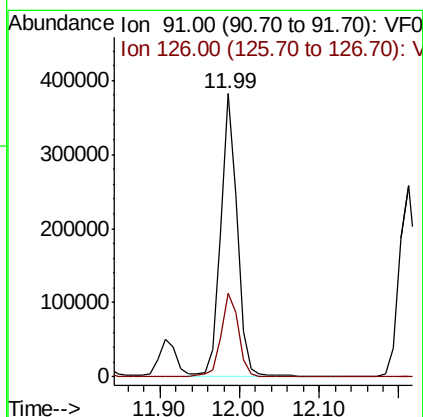
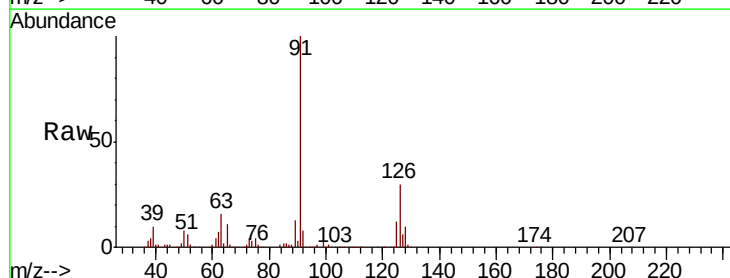
Acq: 6 Sep 2018 13:38

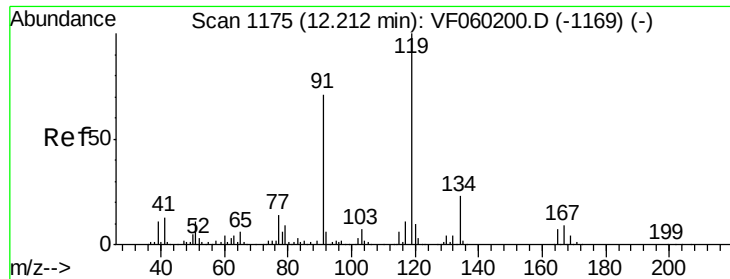
Tgt Ion: 91 Resp: 561974

Ion Ratio Lower Upper

91 100

126 29.6 14.4 43.4





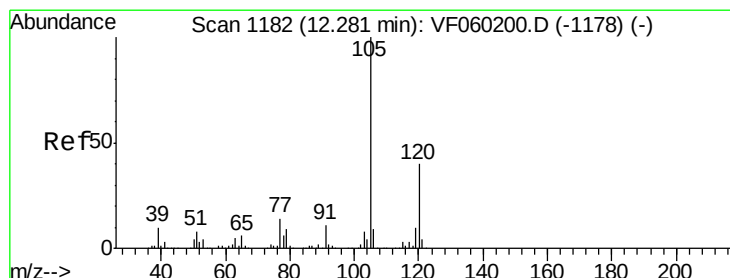
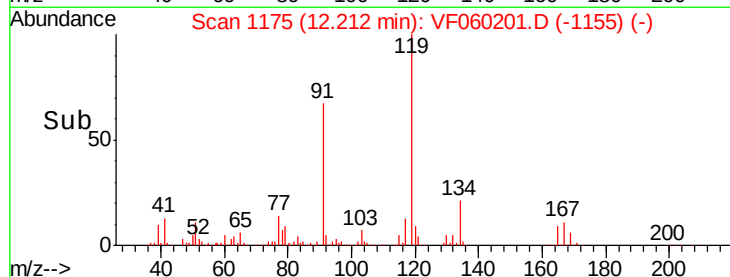
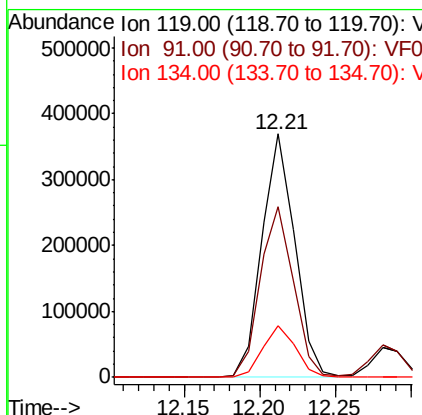
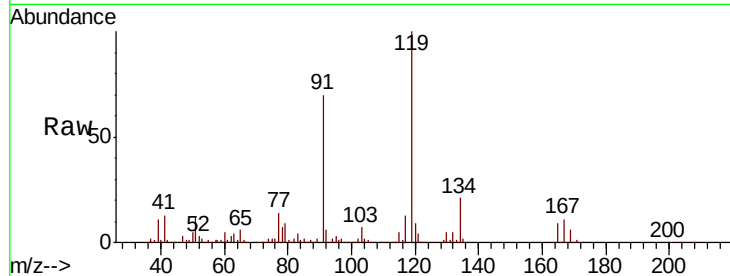
#83
 tert-Butylbenzene
 Concen: 68.49 ug/l
 RT: 12.21 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.9	35.8	107.4
134	21.0	11.6	34.7

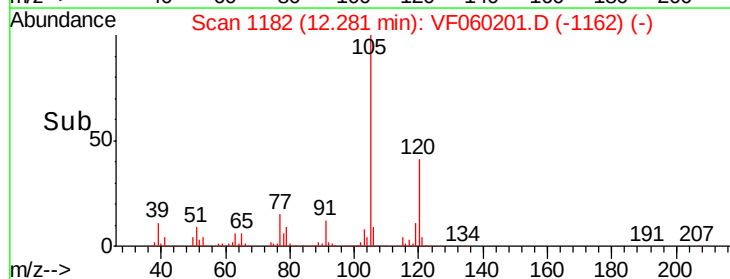
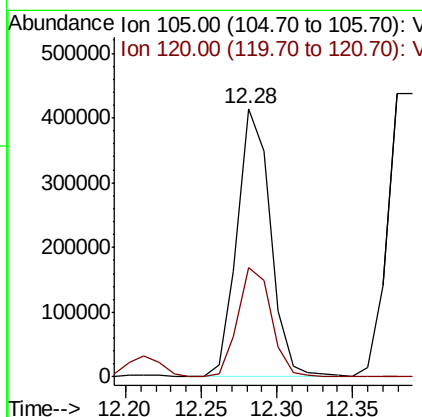
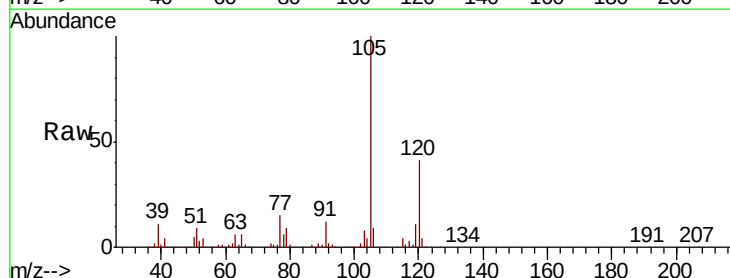
Manual Integrations
 APPROVED

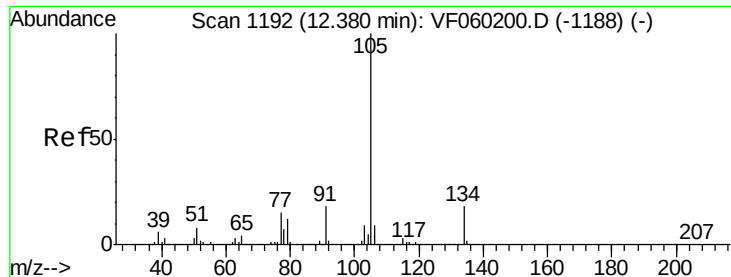
apatel
 9/7/2018 10:49:53 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 69.28 ug/l
 RT: 12.28 min Scan# 1182
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.9	20.2	60.5





#85

sec-Butylbenzene

Concen: 65.49 ug/l

RT: 12.38 min Scan# 1192

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 733648

Ion Ratio Lower Upper

105 100

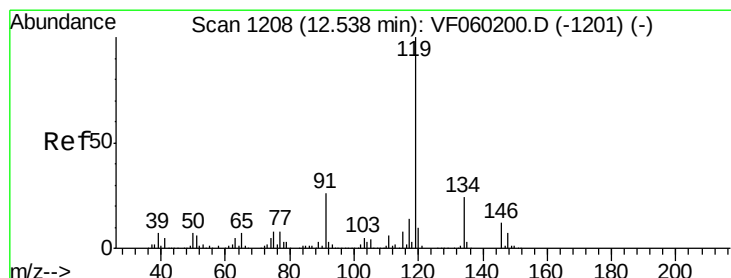
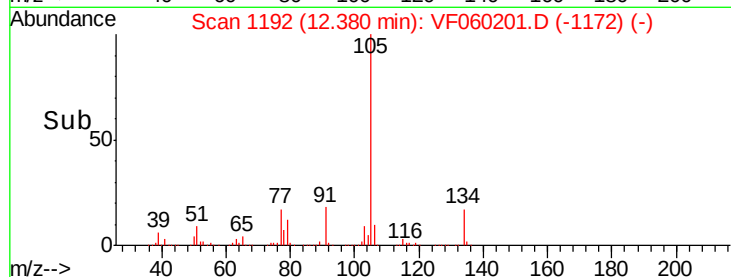
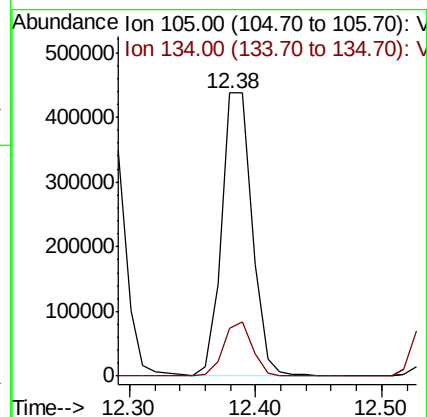
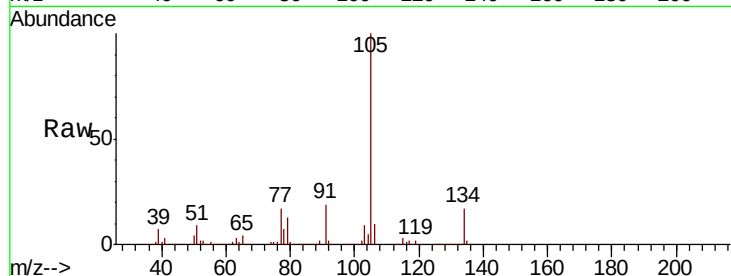
134 17.1 8.8 26.5

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#86

p-Isopropyltoluene

Concen: 67.40 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

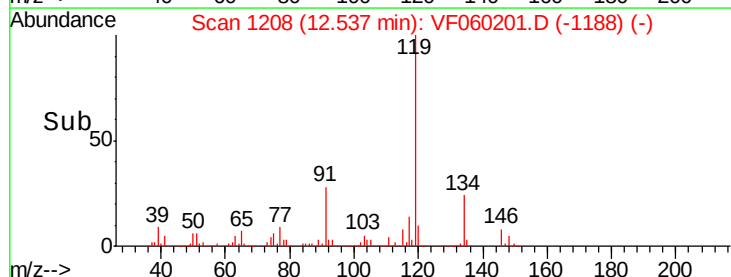
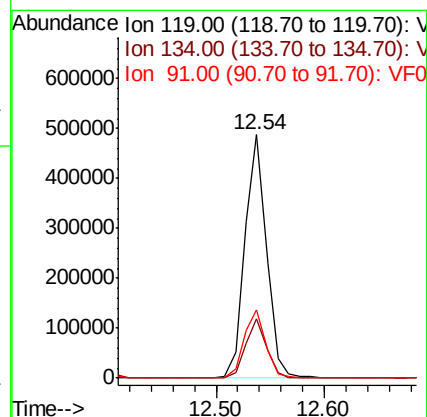
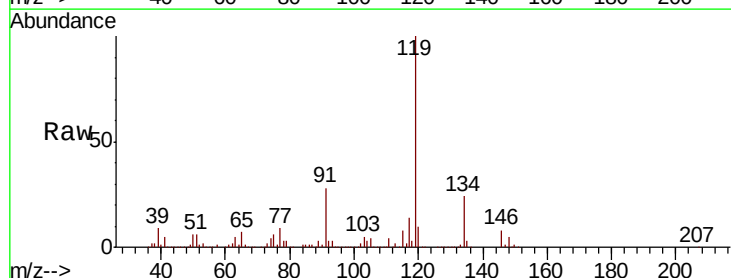
Tgt Ion:119 Resp: 675560

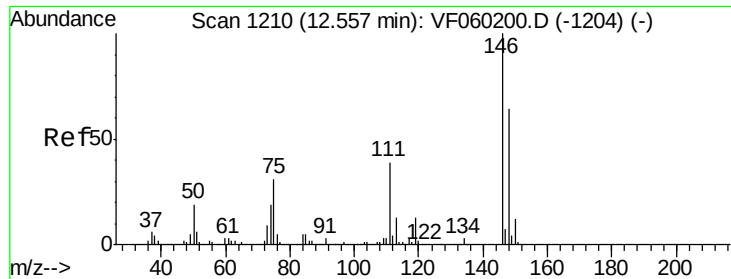
Ion Ratio Lower Upper

119 100

134 24.1 12.0 36.0

91 27.9 12.9 38.7





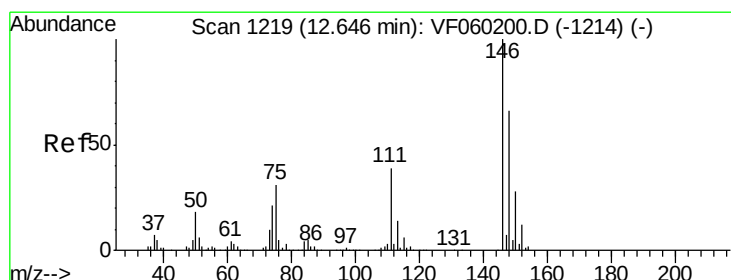
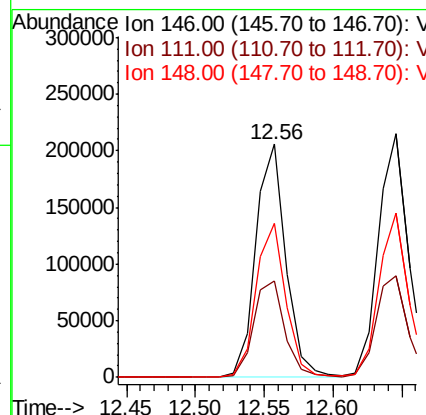
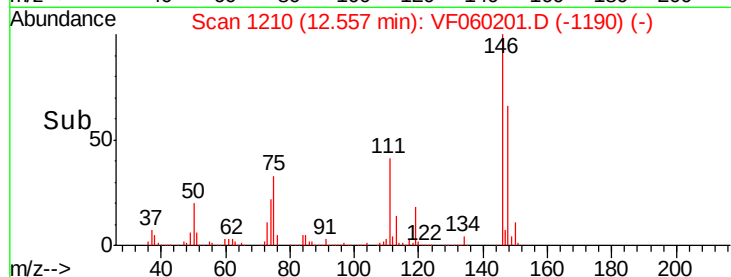
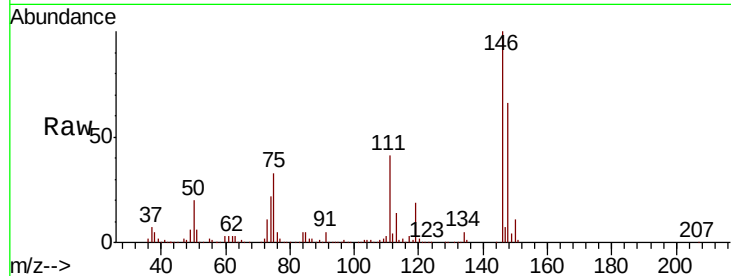
#87
 1,3-Dichlorobenzene
 Concen: 64.78 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.7	59.1
148	66.2	32.0	96.0

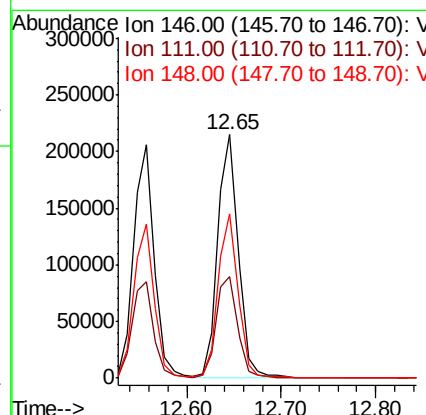
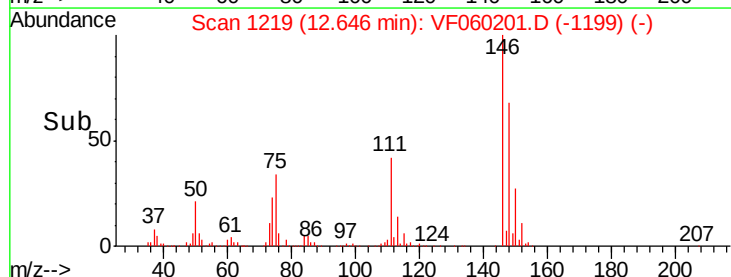
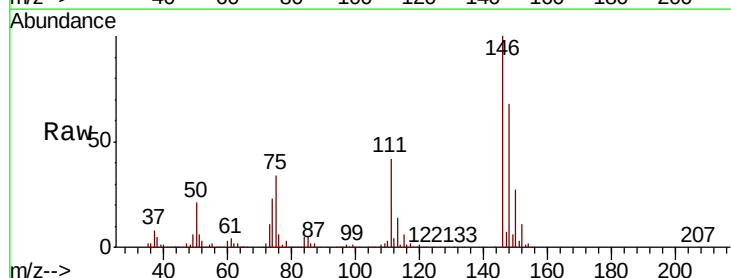
Manual Integrations
 APPROVED

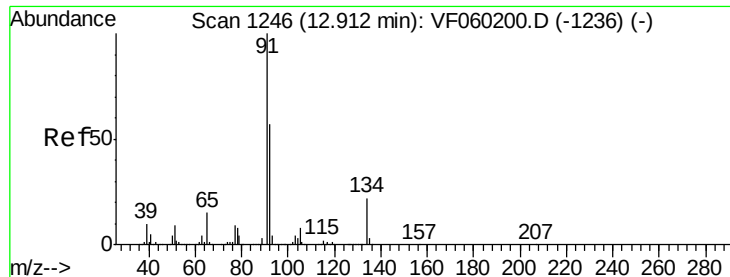
apatel
 9/7/2018 10:49:53 AM



#88
 1,4-Dichlorobenzene
 Concen: 68.18 ug/l
 RT: 12.65 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.7	59.1
148	67.5	33.1	99.5





#89

n-Butylbenzene

Concen: 69.84 ug/l

RT: 12.91 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

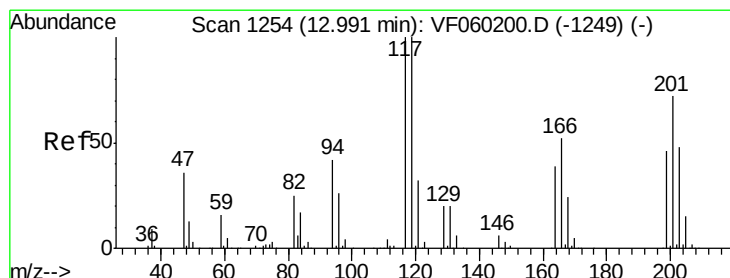
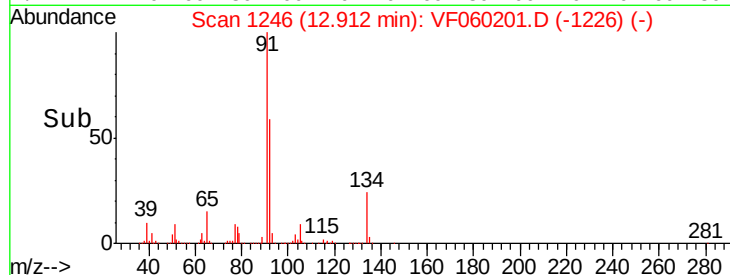
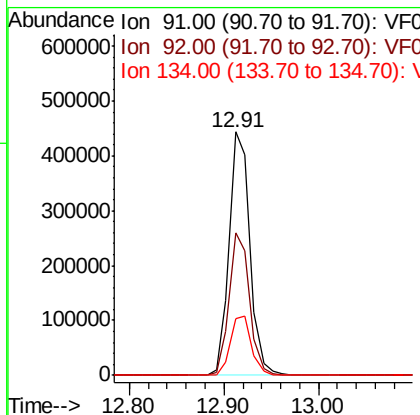
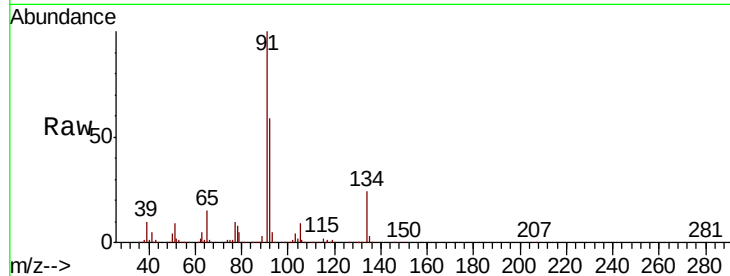
ClientSampleId :

VSTDIC075

Tot Ion:	91	Resp:	674828
Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.4	85.3
134	23.5	11.1	33.3

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#90

Hexachloroethane

Concen: 72.22 ug/l

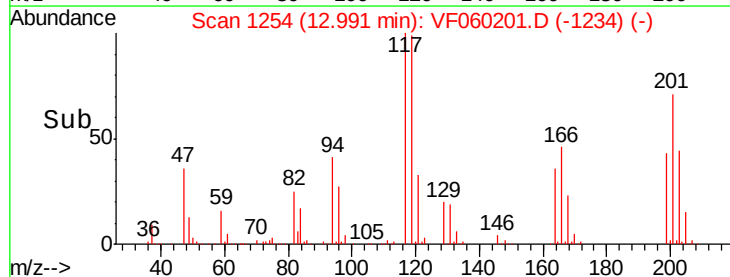
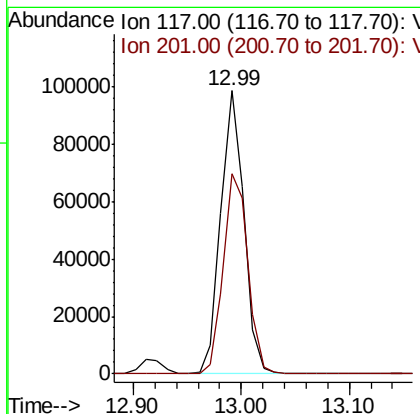
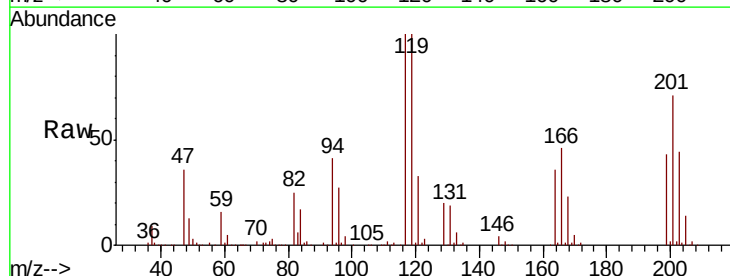
RT: 12.99 min Scan# 1254

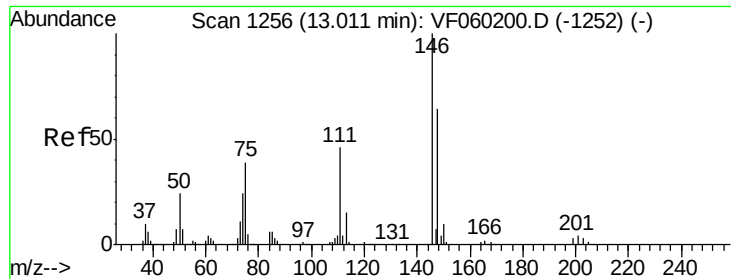
Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Tgt Ion:	117	Resp:	147249
Ion	Ratio	Lower	Upper
117	100		
201	70.7	35.7	107.1





#91

1,2-Dichlorobenzene

Concen: 68.14 ug/l

RT: 13.02 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:146 Resp: 315938

Ion Ratio Lower Upper

146 100

111 44.7 23.0 69.0

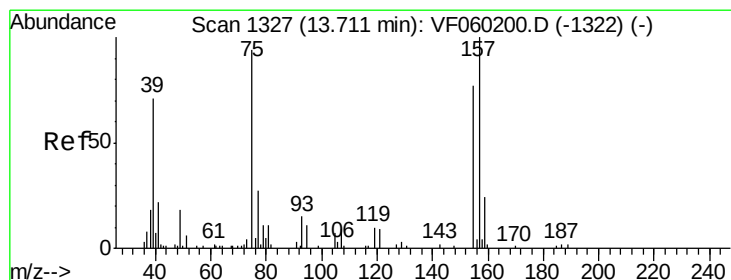
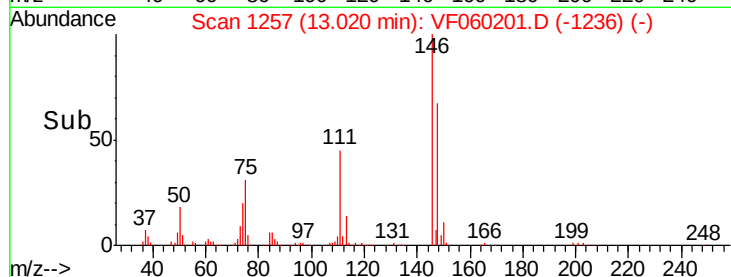
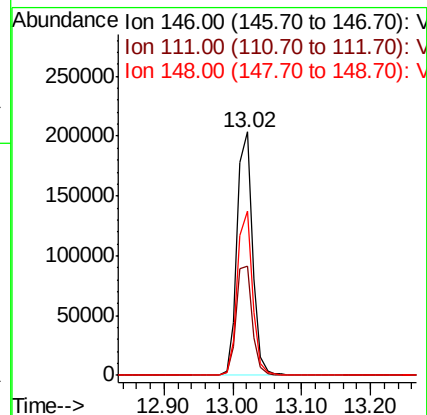
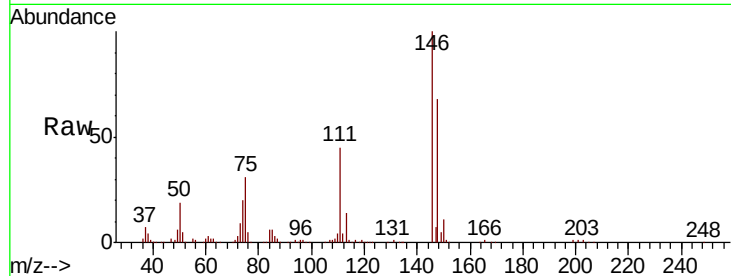
148 67.5 32.2 96.6

Manual Integrations

APPROVED

apatel

9/7/2018 10:49:53 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 82.10 ug/l

RT: 13.71 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VF060201.D

Acq: 6 Sep 2018 13:38

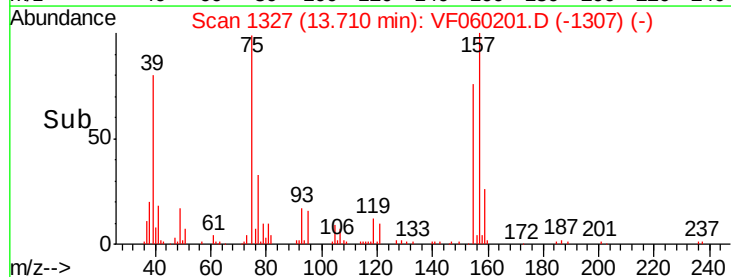
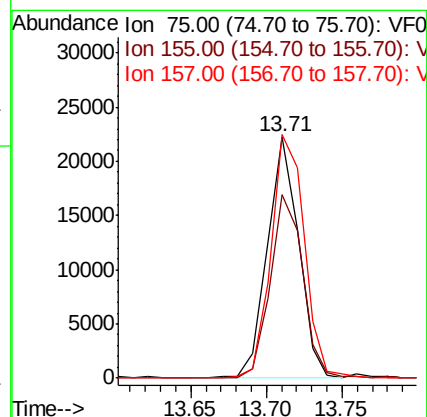
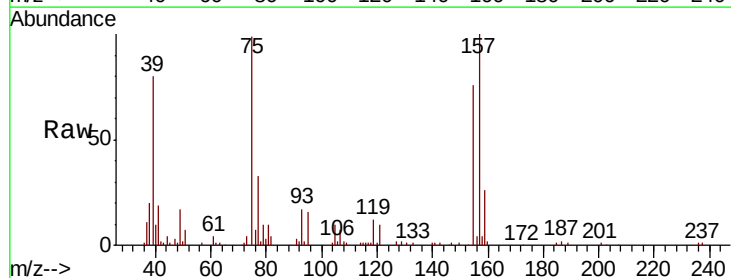
Tgt Ion: 75 Resp: 32152

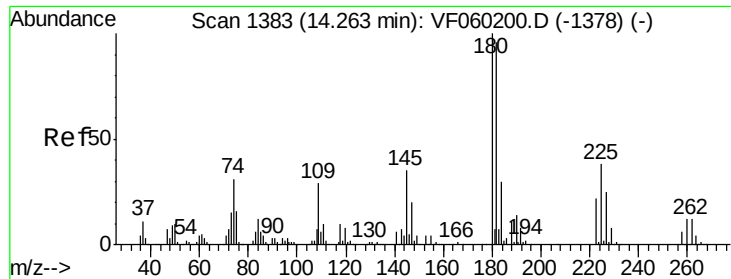
Ion Ratio Lower Upper

75 100

155 76.3 40.8 122.5

157 101.0 53.3 159.9





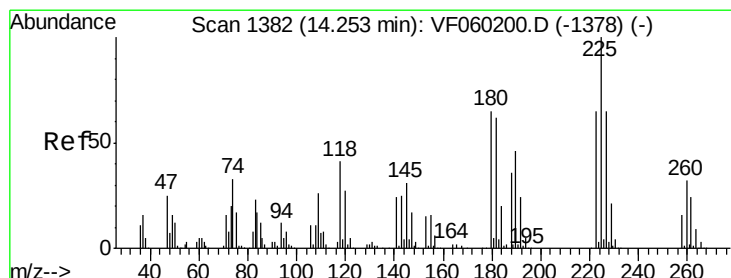
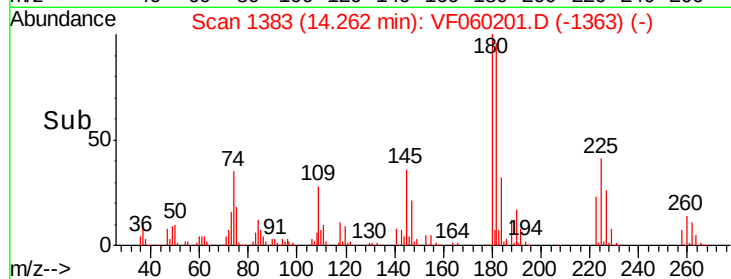
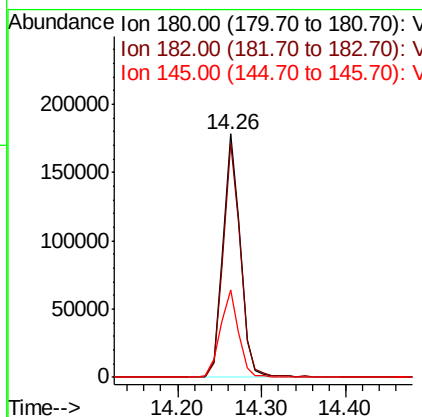
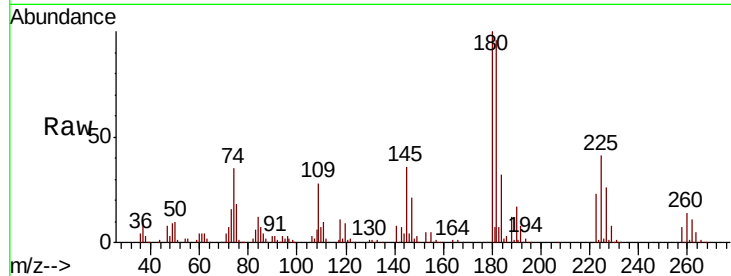
#93
 1,2,4-Trichlorobenzene
 Concen: 71.85 ug/l
 RT: 14.26 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	256877		
182	96.1	48.2	144.6	
145	35.9	17.4	52.2	

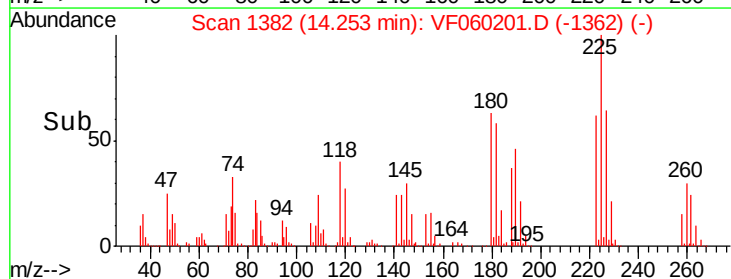
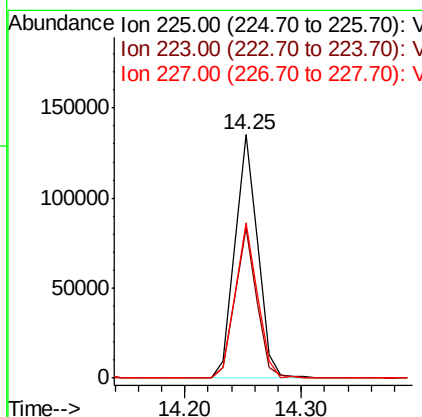
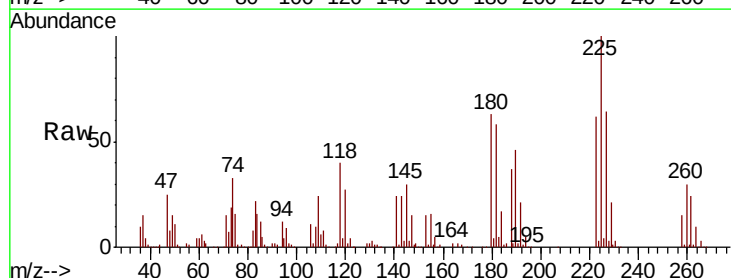
Manual Integrations
 APPROVED

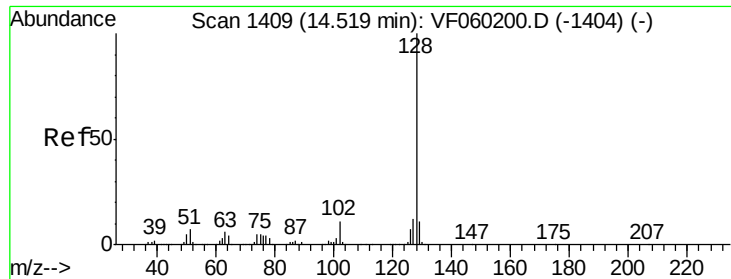
apatel
 9/7/2018 10:49:53 AM



#94
 Hexachlorobutadiene
 Concen: 71.73 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. -0.00 min
 Lab File: VF060201.D
 Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	183486		
223	61.6	32.3	96.8	
227	63.8	32.4	97.0	





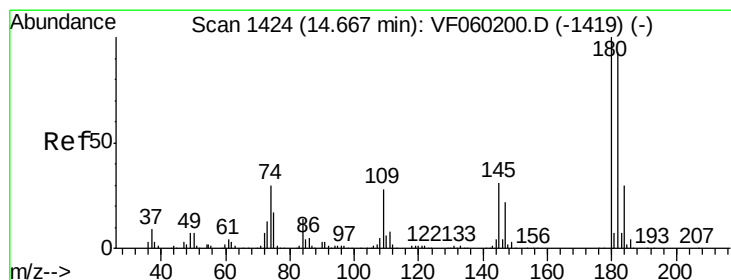
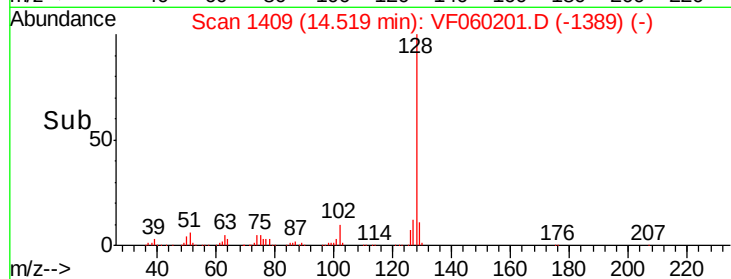
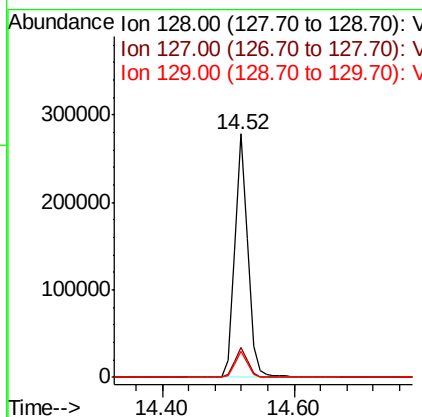
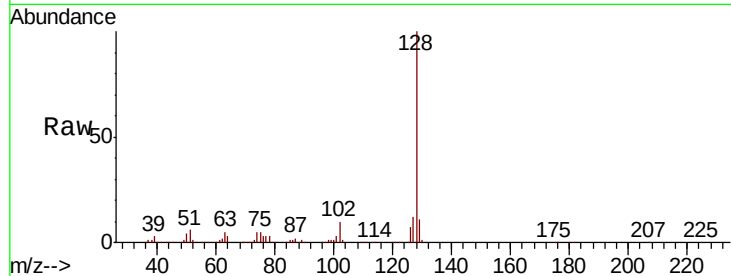
#95
Naphthalene
Concen: 77.77 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
128	100	388674		
127	12.3		9.9	14.9
129	10.8		8.9	13.3

Manual Integrations
APPROVED

apatel
9/7/2018 10:49:53 AM



#96
1,2,3-Trichlorobenzene
Concen: 74.19 ug/l
RT: 14.67 min Scan# 1424
Delta R.T. -0.00 min
Lab File: VF060201.D
Acq: 6 Sep 2018 13:38

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	248337		
182	97.5		46.6	139.7
145	33.2		15.7	47.0

