

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111918\
 Data File : VF060797.D
 Acq On : 20 Nov 2018 1:16
 Operator : VA/AP
 Sample : J5952-02MS
 Misc : 5.10µ/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Manual Integrations
 APPROVED

apatel
 11/20/2018 1:20:49 PM

Quant Time: Nov 20 03:47:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	176103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	298855	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	254382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	107867	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	87159	43.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.78%	
35) Dibromofluoromethane	4.13	113	101684	45.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.52%	
50) Toluene-d8	7.57	98	288146	49.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.42	95	108468	39.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	138750	44.025	ug/l	100
3) Chloromethane	1.11	50	94288	48.240	ug/l	94
4) Vinyl Chloride	1.15	62	80838	46.234	ug/l	96
5) Bromomethane	1.33	94	56168	50.572	ug/l	95
6) Chloroethane	1.37	64	39221	57.333	ug/l	97
7) Trichlorofluoromethane	1.49	101	184471	47.711	ug/l	93
8) Diethyl Ether	1.64	74	29233	59.010	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	87565	48.059	ug/l	92
10) Methyl Iodide	1.89	142	140638	48.108	ug/l	99
11) Tert butyl alcohol	2.58	59	25388	277.719	ug/l	99
12) 1,1-Dichloroethene	1.79	96	72332	50.346	ug/l	91
13) Acrolein	2.01	56	18772	224.583	ug/l	97
14) Allyl chloride	2.10	41	120385	47.830	ug/l	91
15) Acrylonitrile	2.95	53	54342	278.971	ug/l	94
16) Acetone	2.25	43	121432	282.836	ug/l	98
17) Carbon Disulfide	1.84	76	173575m	39.973	ug/l	
18) Methyl Acetate	2.35	43	46996	66.662	ug/l	99
19) Methyl tert-butyl Ether	2.44	73	191085	55.440	ug/l	95
20) Methylene Chloride	2.19	84	72805m	51.085	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	69163	46.076	ug/l	92
22) Diisopropyl ether	2.81	45	285162	58.684	ug/l	98
23) Vinyl Acetate	3.20	43	463036	202.355	ug/l	100
24) 1,1-Dichloroethane	2.88	63	155266	52.777	ug/l	99
25) 2-Butanone	4.35	43	191282	270.866	ug/l	96
26) 2,2-Dichloropropane	3.61	77	108696	46.952	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	113272	44.360	ug/l	96
28) Bromochloromethane	3.73	49	75368	49.295	ug/l	92
29) Tetrahydrofuran	4.08	42	79426	272.669	ug/l	97
30) Chloroform	3.88	83	225105	47.690	ug/l	98
31) Cyclohexane	3.71	56	153485	42.986	ug/l	97
32) 1,1,1-Trichloroethane	4.11	97	182783	49.174	ug/l	95
36) 1,1-Dichloropropene	4.29	75	157374	45.405	ug/l	97
37) Ethyl Acetate	4.11	43	69383	53.844	ug/l	95
38) Carbon Tetrachloride	4.01	117	158410m	47.102	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111918\
 Data File : VF060797.D
 Acq On : 20 Nov 2018 1:16
 Operator : VA/AP
 Sample : J5952-02MS
 Misc : 5.10g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Manual Integrations
 APPROVED

apatel
 11/20/2018 1:20:49 PM

Quant Time: Nov 20 03:47:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	154157	38.337	ug/l	98
40) Benzene	4.65	78	390433	50.534	ug/l	99
41) Methacrylonitrile	4.76	41	35141	51.259	ug/l	93
42) 1,2-Dichloroethane	4.95	62	124823	46.751	ug/l	99
43) Isopropyl Acetate	6.98	43	84835	49.655	ug/l #	96
44) Trichloroethene	5.52	130	108141	44.363	ug/l	90
45) 1,2-Dichloropropane	6.25	63	109465	54.447	ug/l	100
46) Dibromomethane	6.10	93	61428	46.286	ug/l	94
47) Bromodichloromethane	6.40	83	166299	49.070	ug/l	98
48) Methyl methacrylate	6.73	41	60431	53.445	ug/l	98
49) 1,4-Dioxane	6.72	88	10568	999.346	ug/l	92
51) 4-Methyl-2-Pentanone	8.27	43	333418	269.827	ug/l	99
52) Toluene	7.64	92	240888	46.526	ug/l	96
53) t-1,3-Dichloropropene	8.29	75	107286	39.525	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	146677	41.600	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	72186	48.797	ug/l	96
56) Ethyl methacrylate	8.63	69	84987	50.586	ug/l	93
57) 1,3-Dichloropropane	8.87	76	128169	49.993	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.64	63	35504	231.339	ug/l	100
59) 2-Hexanone	9.50	43	227691	262.198	ug/l	99
60) Dibromochloromethane	8.73	129	98910	46.915	ug/l	92
61) 1,2-Dibromoethane	9.00	107	71485	45.948	ug/l	94
64) Tetrachloroethene	8.17	164	99591	49.439	ug/l	95
65) Chlorobenzene	9.82	112	251423	48.979	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	111734	49.905	ug/l	96
67) Ethyl Benzene	9.91	91	458239	47.359	ug/l	99
68) m/p-Xylenes	10.14	106	329811	95.379	ug/l	95
69) o-Xylene	10.72	106	185932	47.826	ug/l	97
70) Styrene	10.80	104	235910	44.713	ug/l	98
71) Bromoform	10.78	173	52651	52.295	ug/l #	96
73) Isopropylbenzene	11.14	105	508296	58.542	ug/l	98
74) N-amyl acetate	11.38	43	118406	59.905	ug/l	92
75) 1,1,2,2-Tetrachloroethane	11.71	83	102409	71.341	ug/l	98
76) 1,2,3-Trichloropropane	11.81	75	71991	67.527	ug/l	99
77) Bromobenzene	11.50	156	106574	58.969	ug/l	92
78) n-propylbenzene	11.60	91	557766	55.081	ug/l	95
79) 2-Chlorotoluene	11.73	91	336320	57.144	ug/l	96
80) 1,3,5-Trimethylbenzene	11.84	105	394162	57.181	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	27721m	52.927	ug/l	
82) 4-Chlorotoluene	11.91	91	310580	51.511	ug/l	98
83) tert-Butylbenzene	12.14	119	411372	56.206	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	387588	54.367	ug/l	95
85) sec-Butylbenzene	12.31	105	495053	49.863	ug/l	96
86) p-Isopropyltoluene	12.47	119	409037	49.329	ug/l	96
87) 1,3-Dichlorobenzene	12.49	146	174574	48.538	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	169914	49.155	ug/l	95
89) n-Butylbenzene	12.85	91	337411	39.873	ug/l	96
90) Hexachloroethane	12.92	117	100301	49.454	ug/l	96
91) 1,2-Dichlorobenzene	12.95	146	173681	51.287	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	17317	64.184	ug/l	79

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF111918\
Data File : VF060797.D
Acq On : 20 Nov 2018 1:16
Operator : VA/AP
Sample : J5952-02MS
Misc : 5.10g/5mL/MSVOA-F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

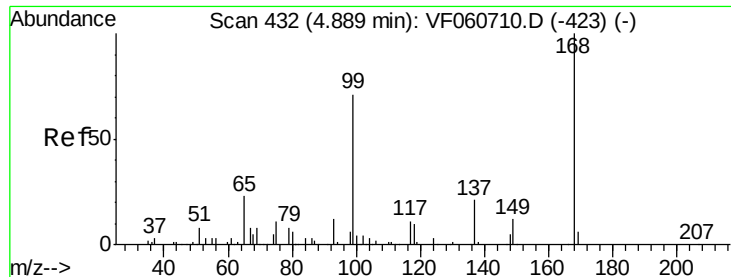
Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM

Quant Time: Nov 20 03:47:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	90413	37.145	ug/l	92
94) Hexachlorobutadiene	14.20	225	39758	24.996	ug/l	94
95) Naphthalene	14.46	128	225636	50.804	ug/l	100
96) 1,2,3-Trichlorobenzene	14.61	180	86908	38.640	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion:168 Resp: 176103

Ion Ratio Lower Upper

168 100

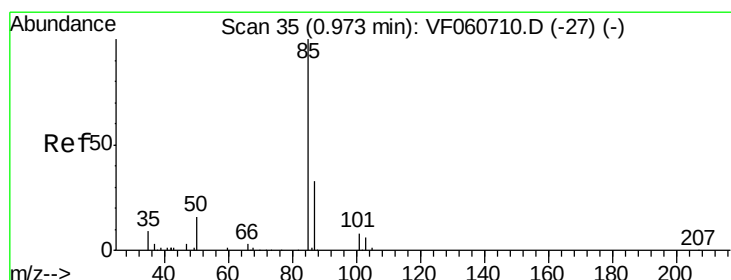
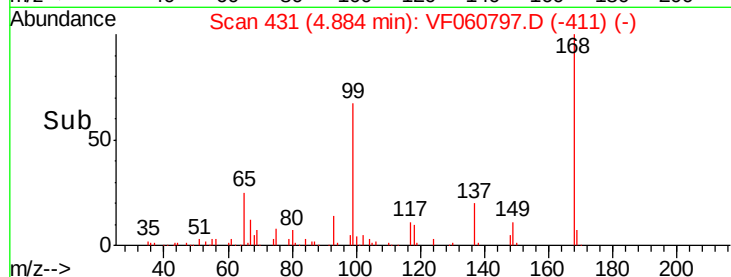
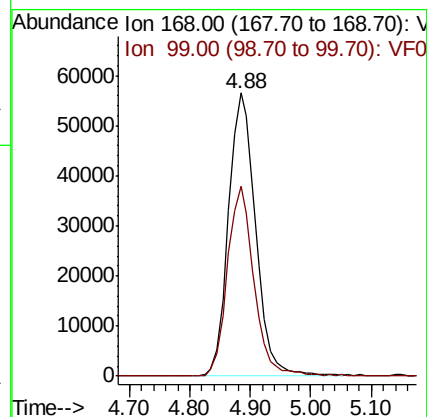
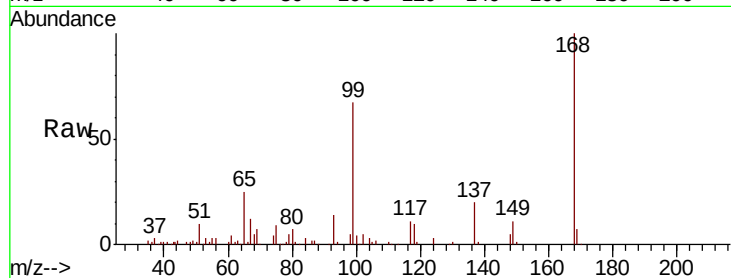
99 67.3 57.2 85.8

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#2

Dichlorodifluoromethane

Concen: 44.025 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF060797.D

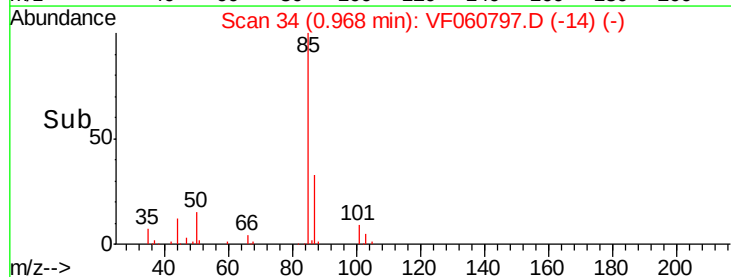
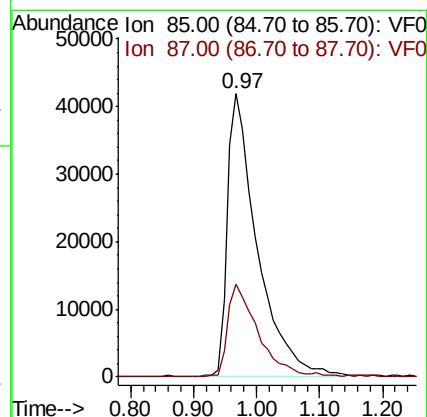
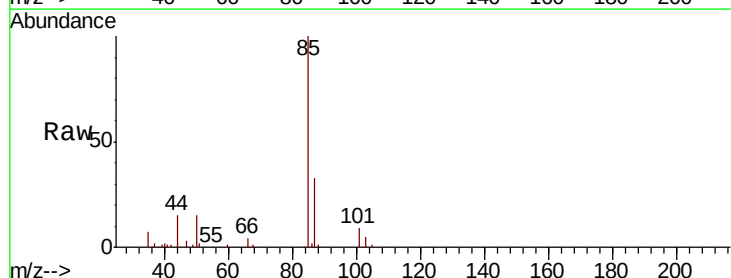
Acq: 20 Nov 2018 1:16

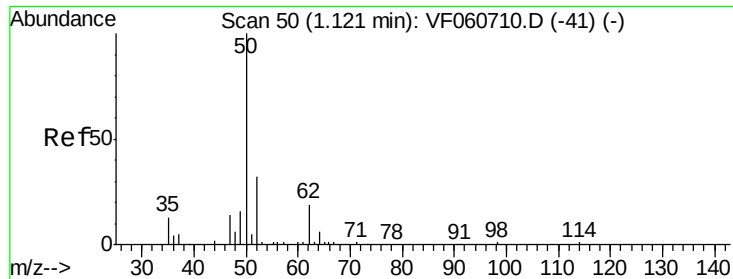
Tgt Ion: 85 Resp: 138750

Ion Ratio Lower Upper

85 100

87 32.8 16.3 48.9





#3

Chloromethane

Concen: 48.240 ug/l

RT: 1.11 min Scan# 48

Delta R.T. -0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 50 Resp: 94288

Ion Ratio Lower Upper

50 100

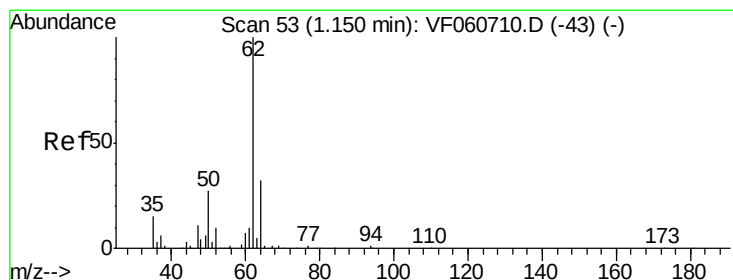
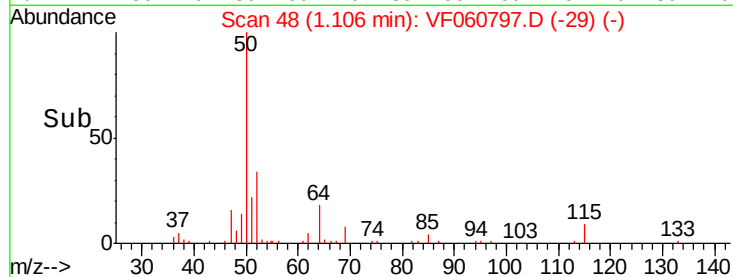
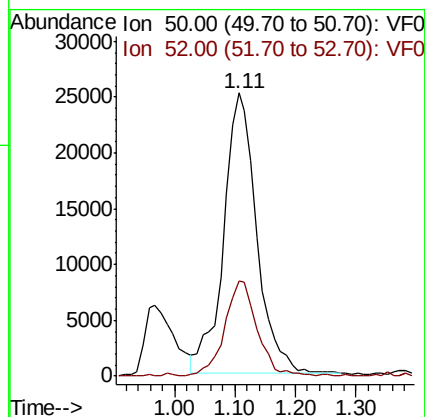
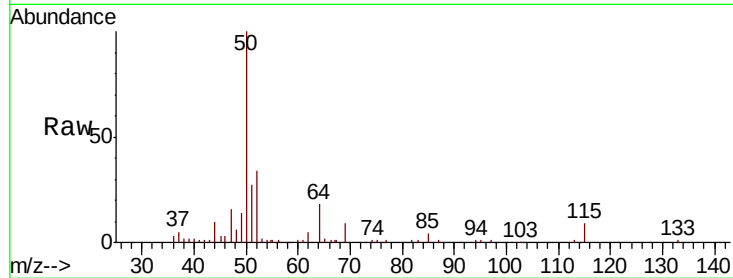
52 33.7 24.2 36.2

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#4

Vinyl Chloride

Concen: 46.234 ug/l

RT: 1.15 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF060797.D

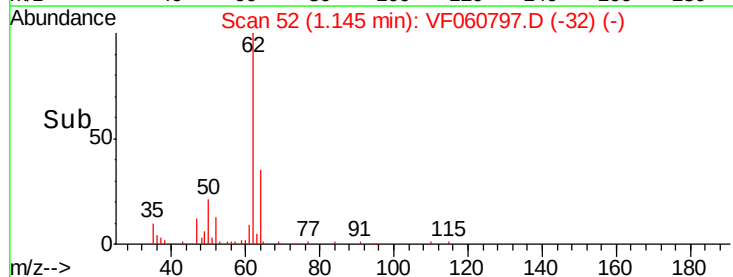
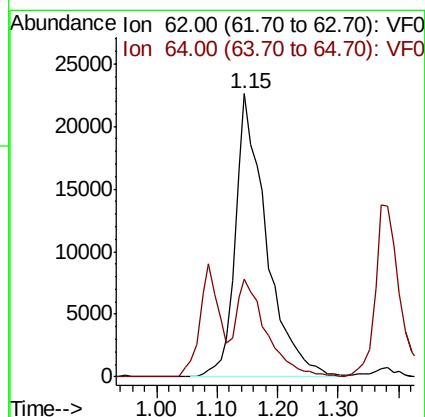
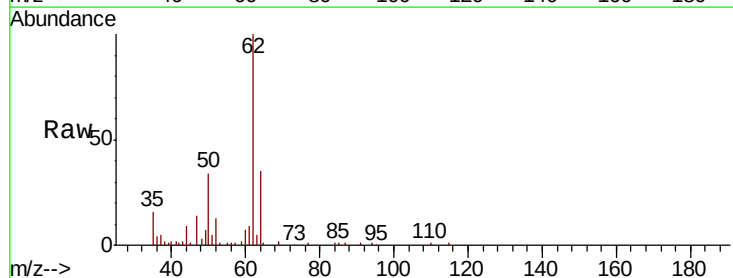
Acq: 20 Nov 2018 1:16

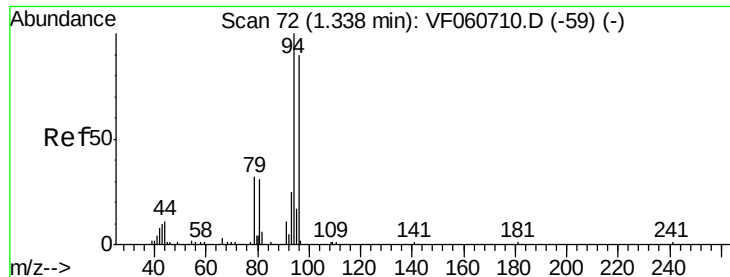
Tgt Ion: 62 Resp: 80838

Ion Ratio Lower Upper

62 100

64 34.8 25.8 38.8





#5

Bromomethane

Concen: 50.572 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 94 Resp: 56168

Ion Ratio Lower Upper

94 100

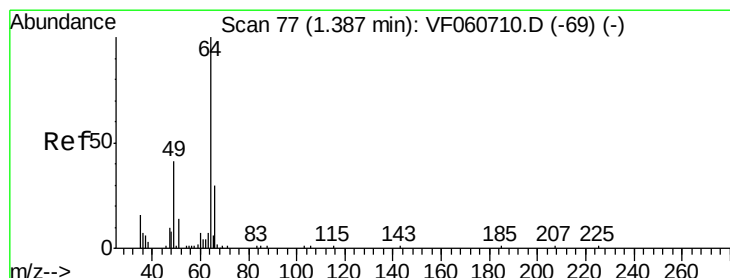
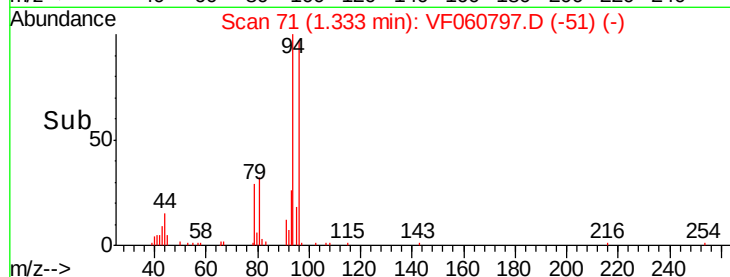
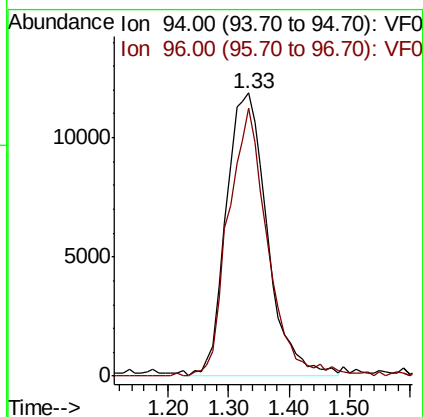
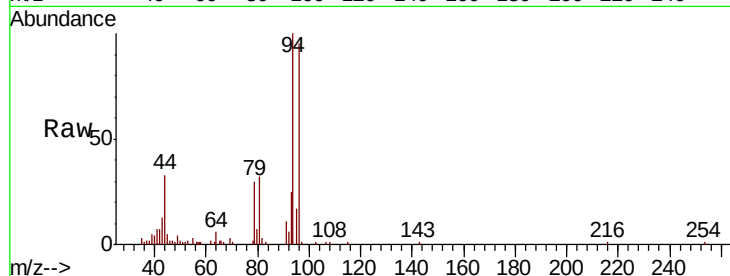
96 94.6 71.9 107.9

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#6

Chloroethane

Concen: 57.333 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060797.D

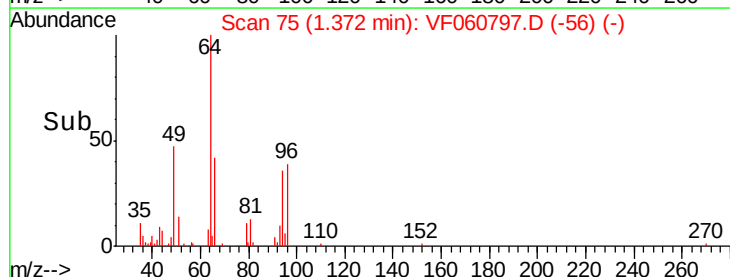
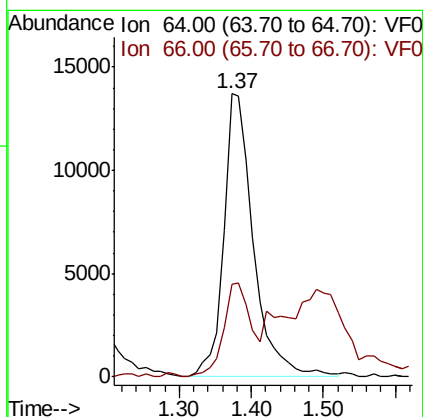
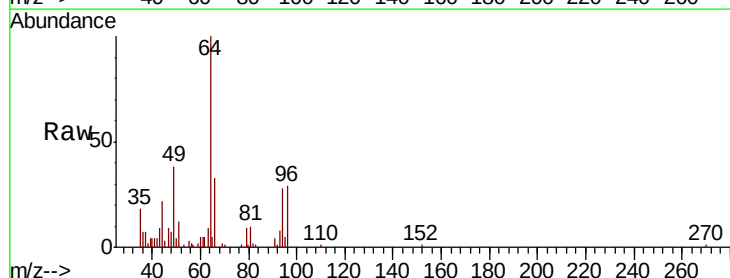
Acq: 20 Nov 2018 1:16

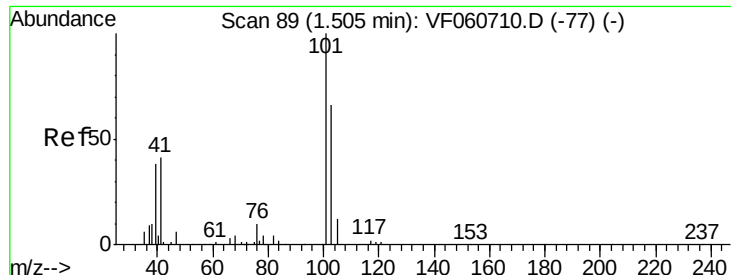
Tgt Ion: 64 Resp: 39221

Ion Ratio Lower Upper

64 100

66 32.7 24.8 37.2





#7

Trichlorofluoromethane

Concen: 47.711 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion:101 Resp: 184471

Ion Ratio Lower Upper

101 100

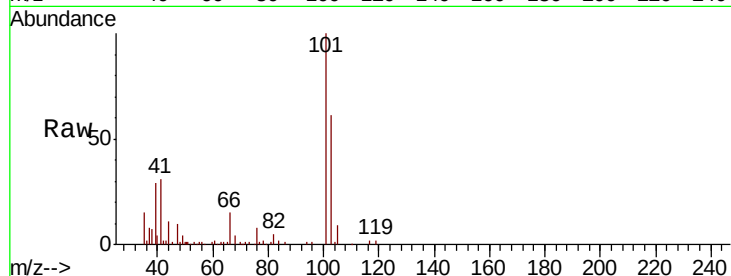
103 60.8 53.1 79.7

Manual Integrations

APPROVED

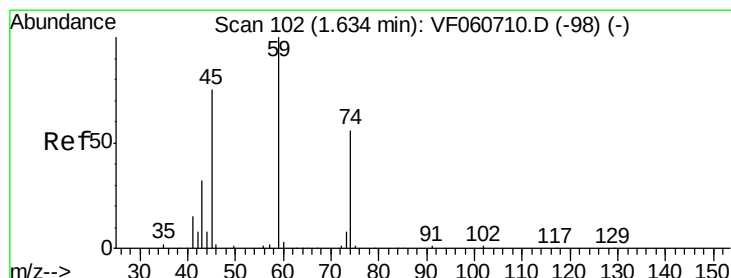
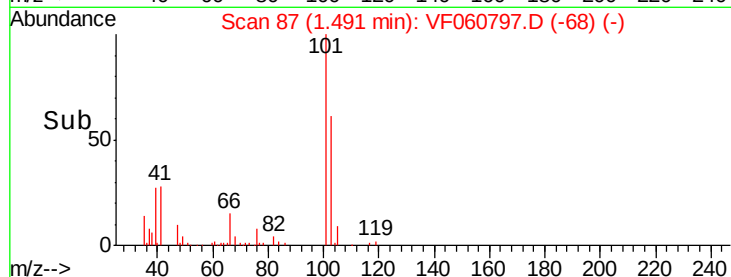
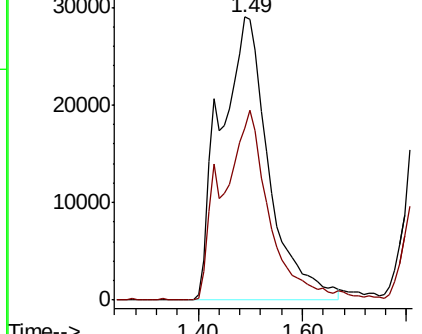
apatel

11/20/2018 1:20:49 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 59.010 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060797.D

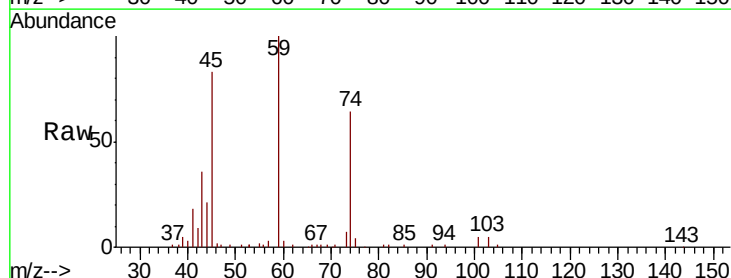
Acq: 20 Nov 2018 1:16

Tgt Ion: 74 Resp: 29233

Ion Ratio Lower Upper

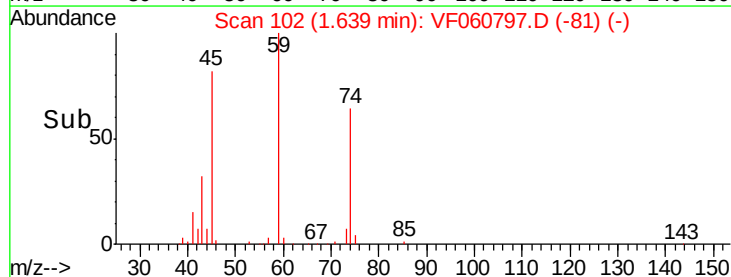
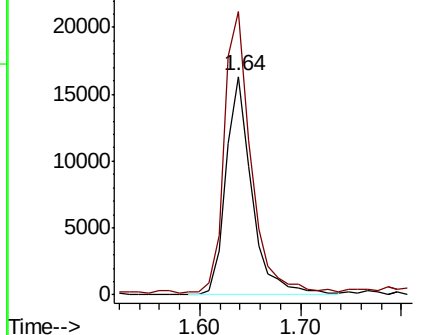
74 100

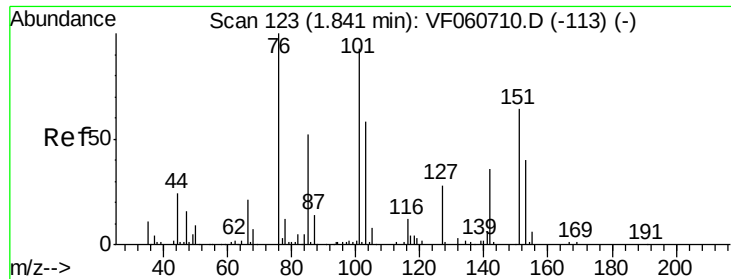
45 129.7 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.059 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

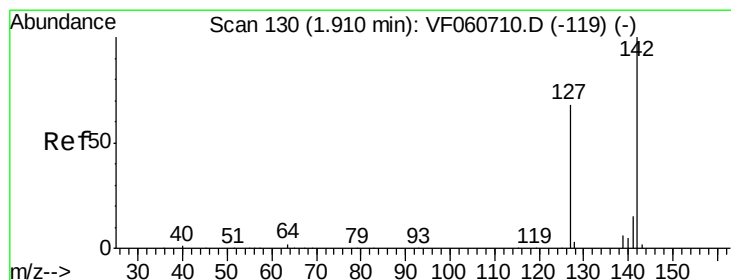
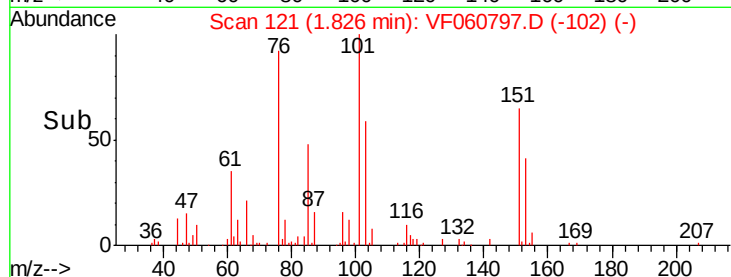
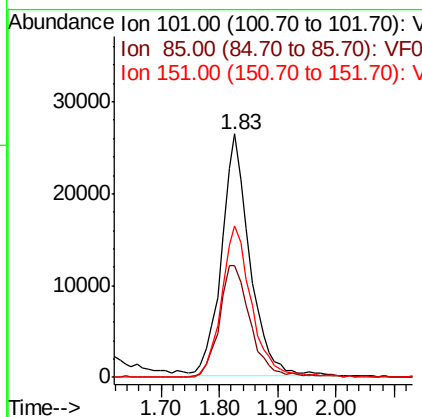
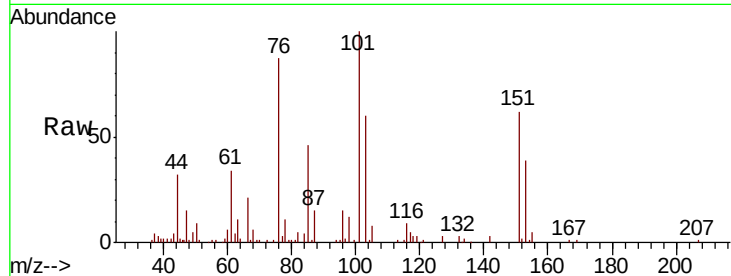
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	101	Resp:	87565
Ion Ratio	Lower	Upper	
101	100		
85	45.8	43.6	65.4
151	62.1	53.1	79.7

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#10

Methyl Iodide

Concen: 48.108 ug/l

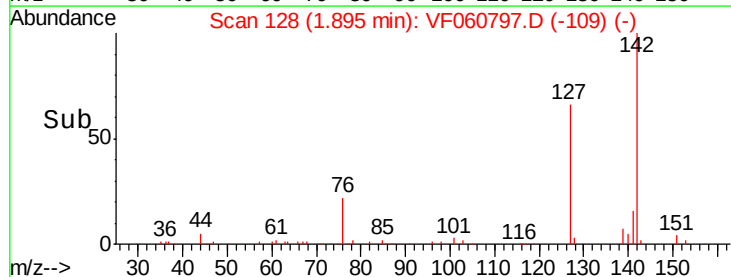
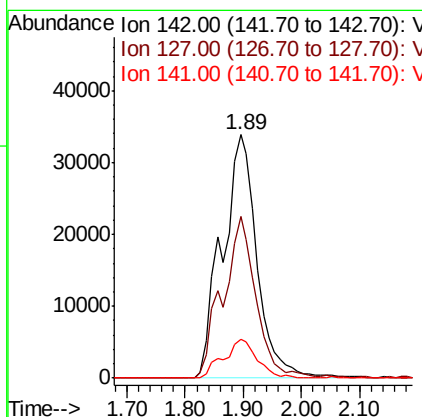
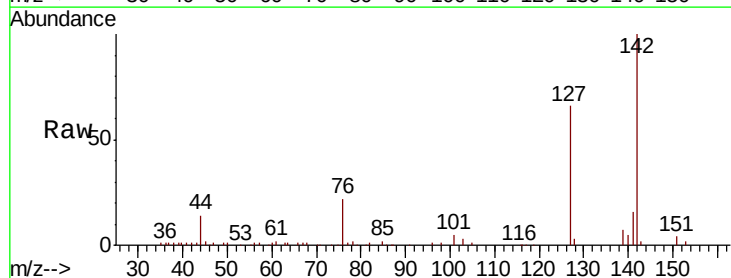
RT: 1.89 min Scan# 128

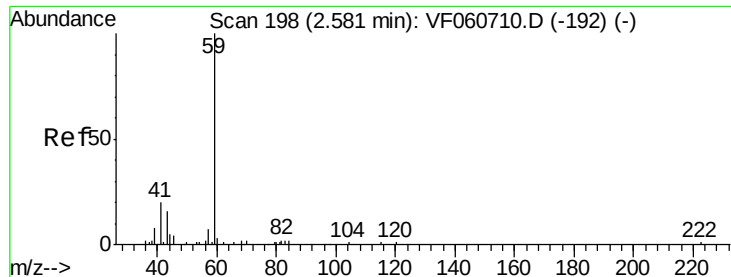
Delta R.T. -0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	142	Resp:	140638
Ion Ratio	Lower	Upper	
142	100		
127	66.4	54.0	81.0
141	15.8	12.3	18.5





#11

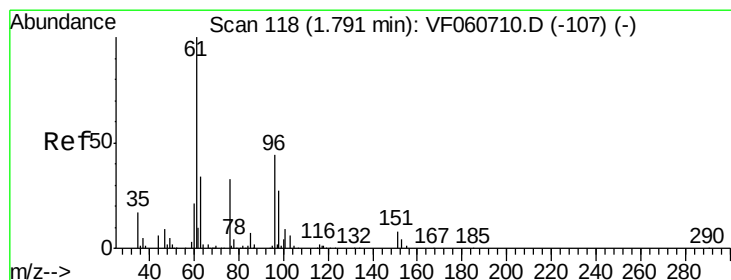
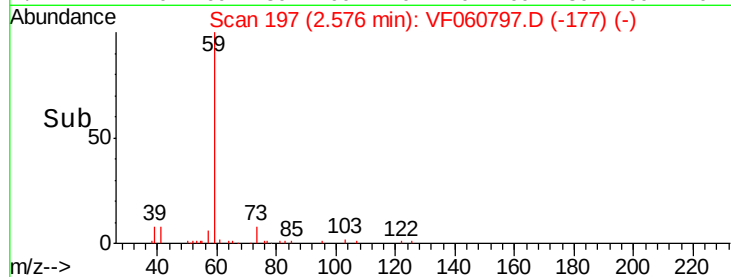
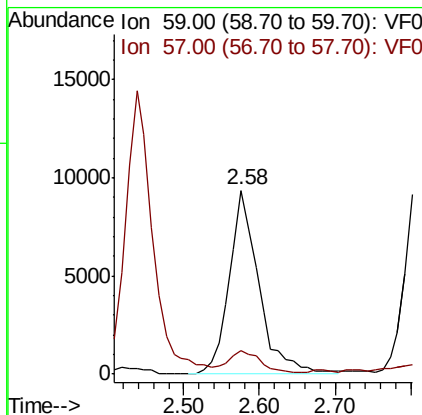
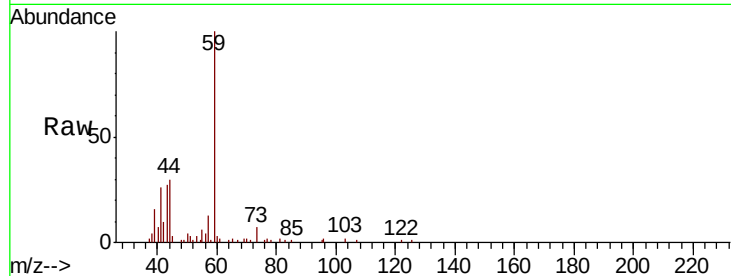
Tert butyl alcohol
Concen: 277.719 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion: 59 Resp: 25388
Ion Ratio Lower Upper
59 100
57 12.6 10.5 15.7

Manual Integrations
APPROVED

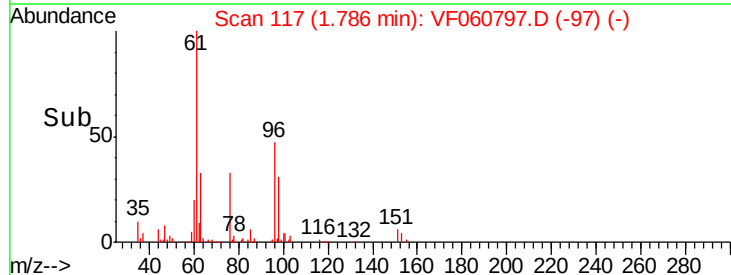
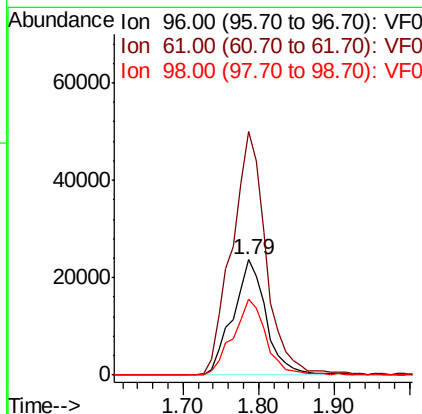
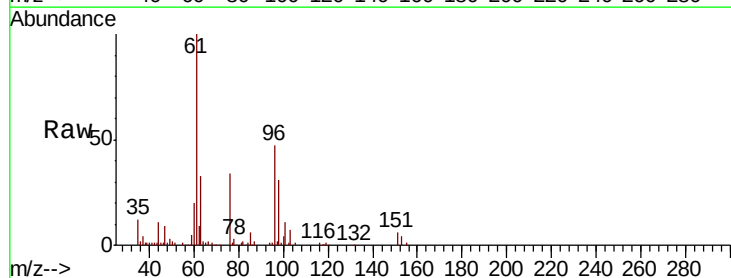
apatel
11/20/2018 1:20:49 PM

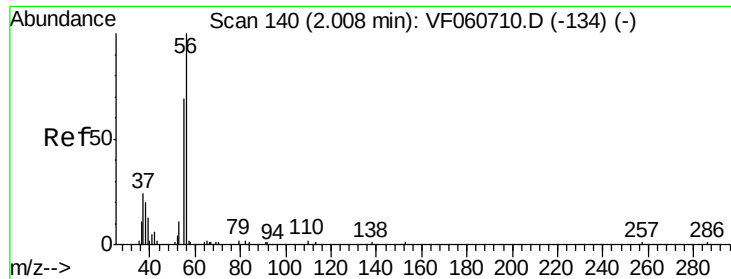


#12

1,1-Dichloroethene
Concen: 50.346 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion: 96 Resp: 72332
Ion Ratio Lower Upper
96 100
61 211.2 182.2 273.2
98 65.9 49.2 73.8





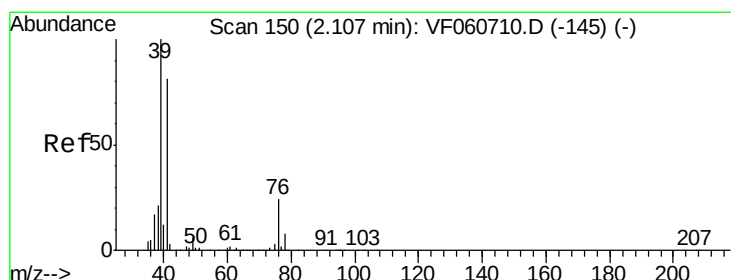
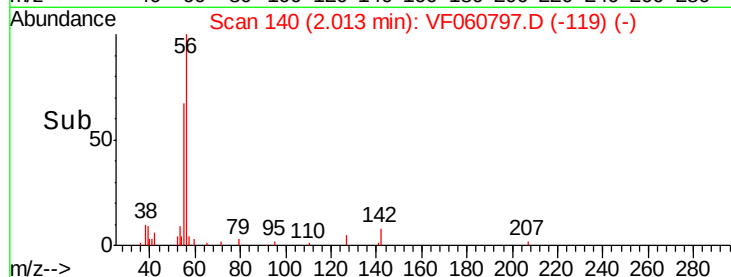
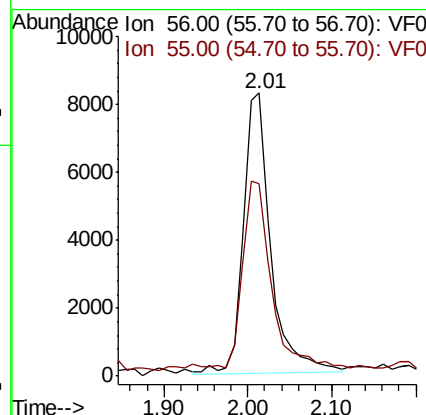
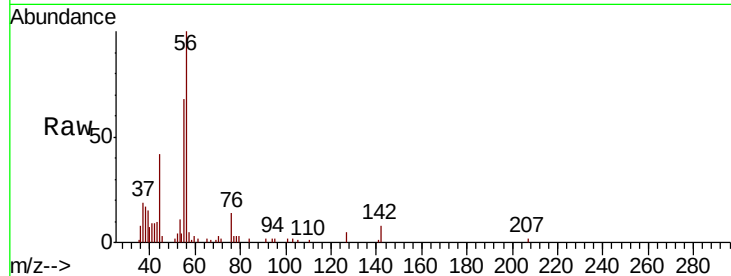
#13
Acrolein
Concen: 224.583 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	68.1	56.6	85.0	

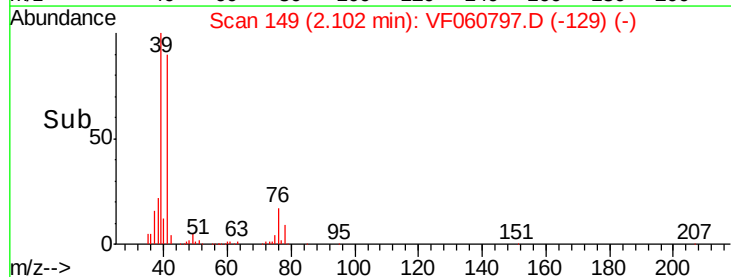
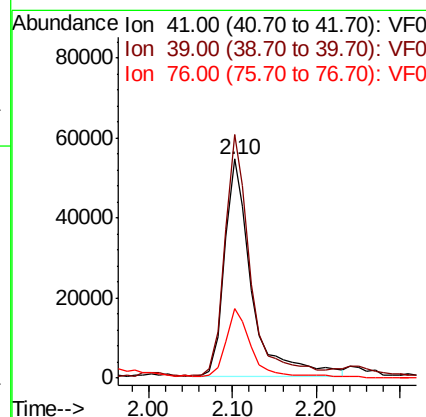
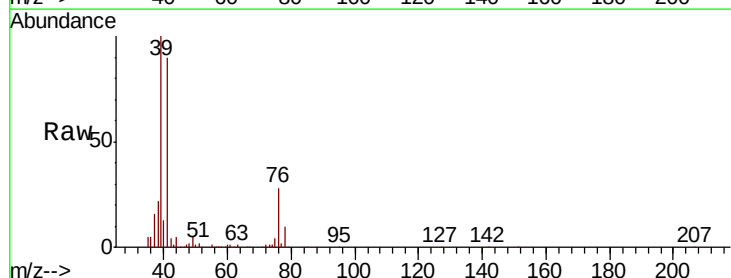
Manual Integrations
APPROVED

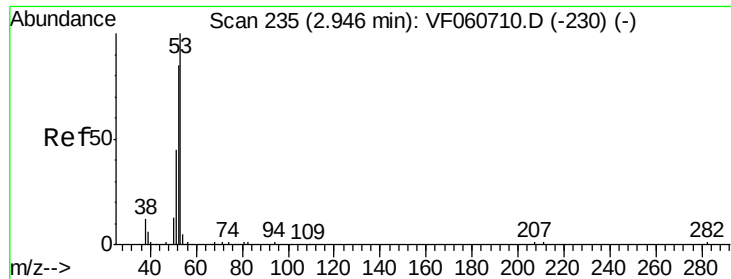
apatel
11/20/2018 1:20:49 PM



#14
Allyl chloride
Concen: 47.830 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	111.1	98.5	147.7	
76	31.5	24.5	36.7	





#15

Acrylonitrile

Concen: 278.971 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

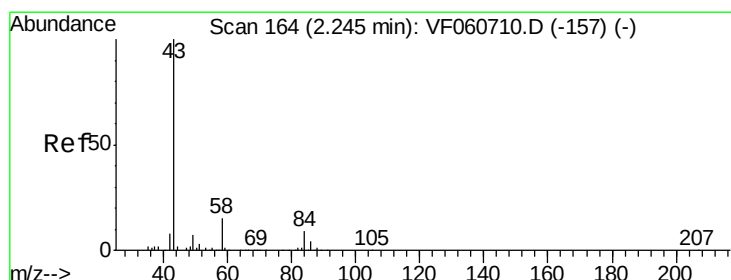
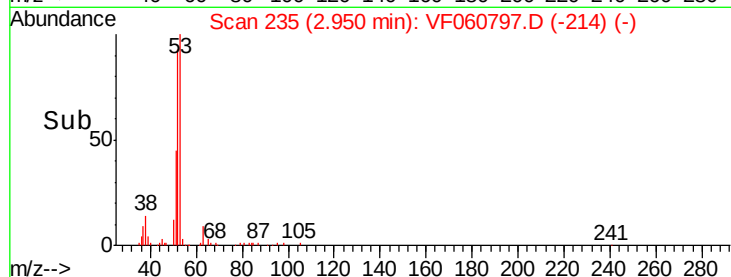
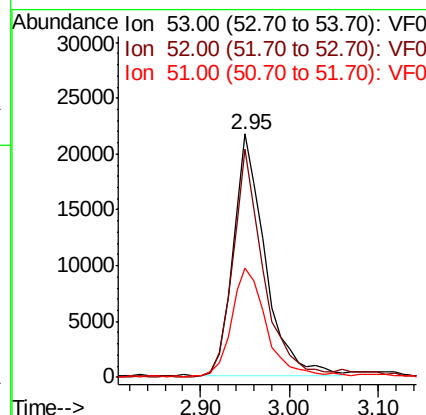
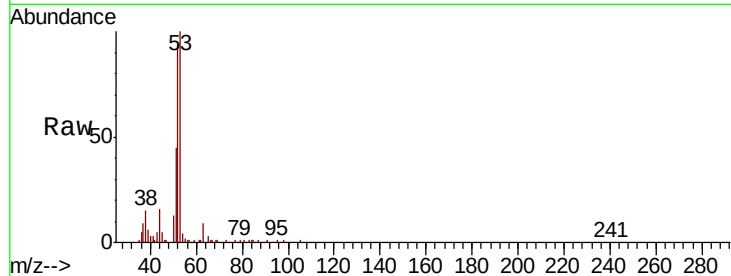
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	53	Resp:	54342
Ion	Ratio	Lower	Upper
53	100		
52	93.5	68.8	103.2
51	45.1	36.7	55.1

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#16

Acetone

Concen: 282.836 ug/l

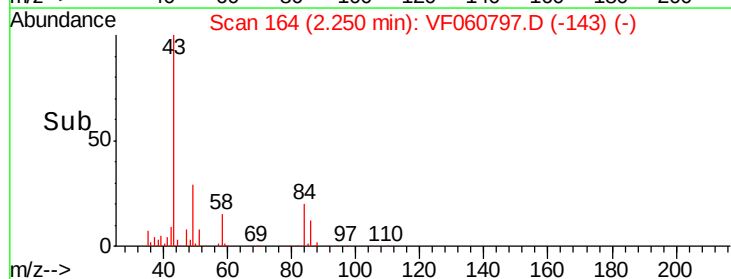
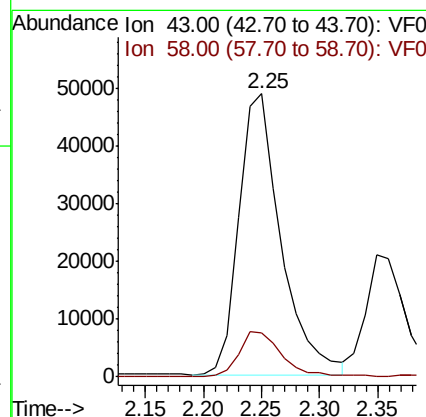
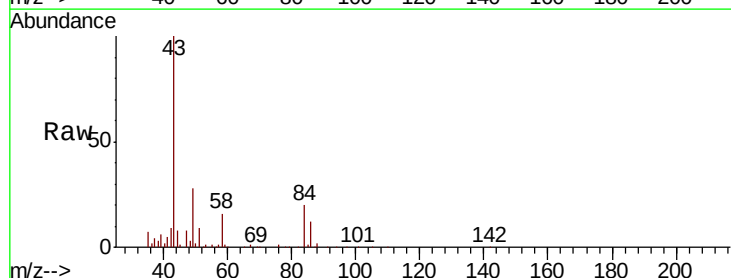
RT: 2.25 min Scan# 164

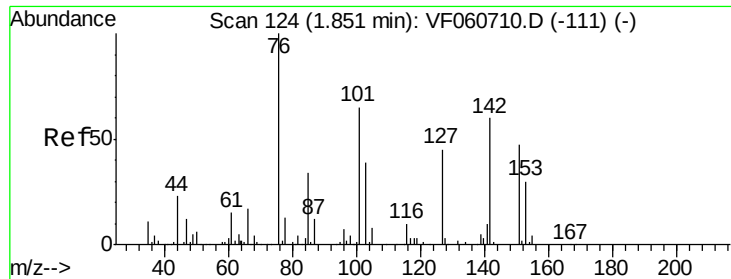
Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	43	Resp:	121432
Ion	Ratio	Lower	Upper
43	100		
58	15.5	11.6	17.4





#17

Carbon Disulfide

Concen: 39.973 ug/l m

RT: 1.84 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tot Ion: 76 Resp: 173575

Ion Ratio Lower Upper

76 100

78 11.2 10.5 15.7

Instrument :

MSVOA_F

ClientSampleId :

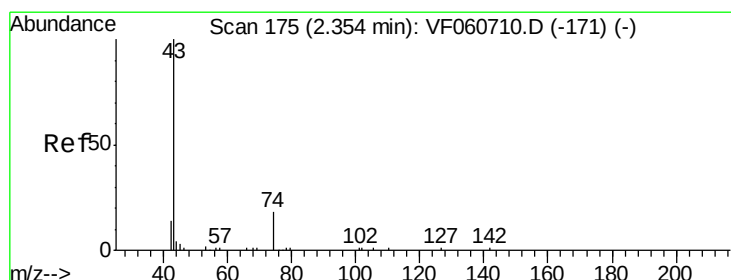
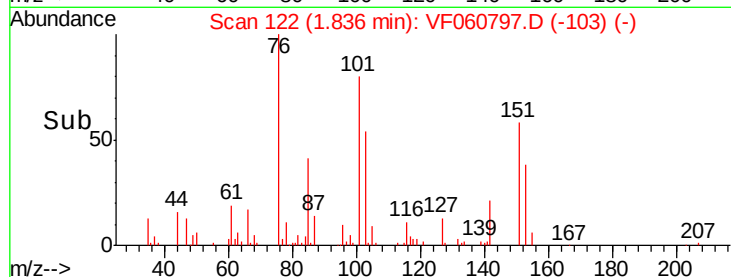
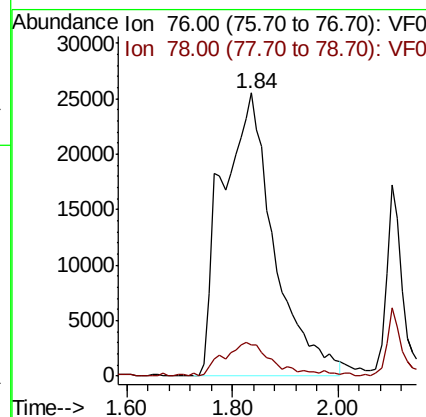
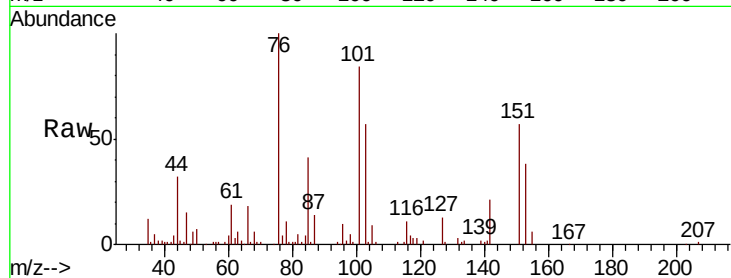
VTW-01(7-10)MS

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#18

Methyl Acetate

Concen: 66.662 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.00 min

Lab File: VF060797.D

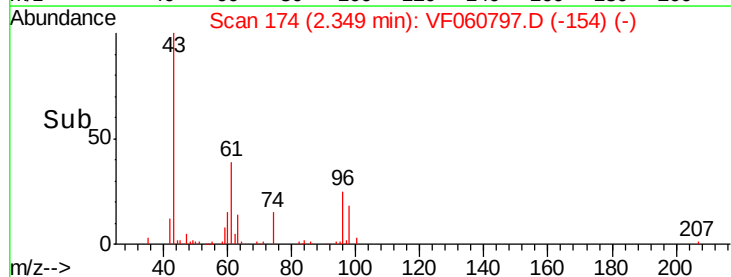
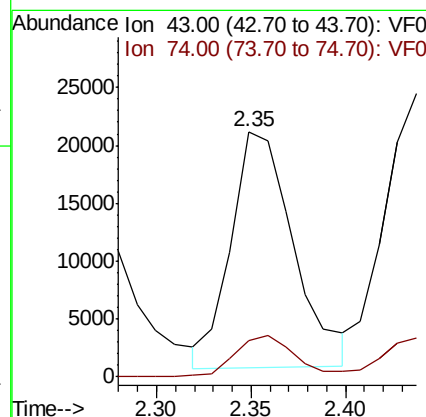
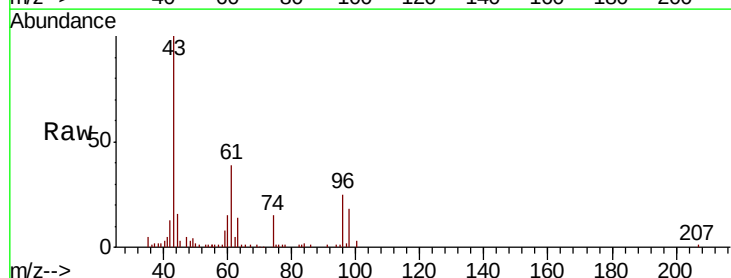
Acq: 20 Nov 2018 1:16

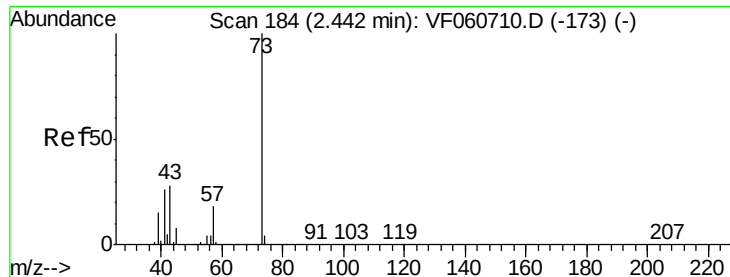
Tgt Ion: 43 Resp: 46996

Ion Ratio Lower Upper

43 100

74 15.0 11.8 17.8





#19

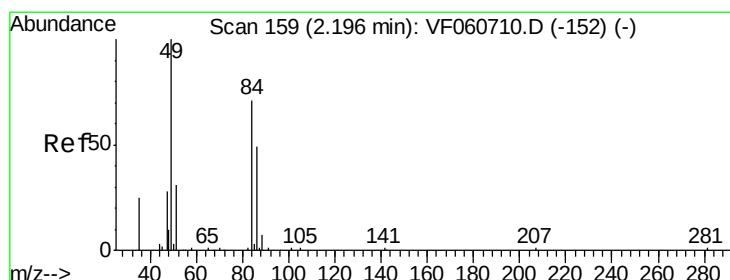
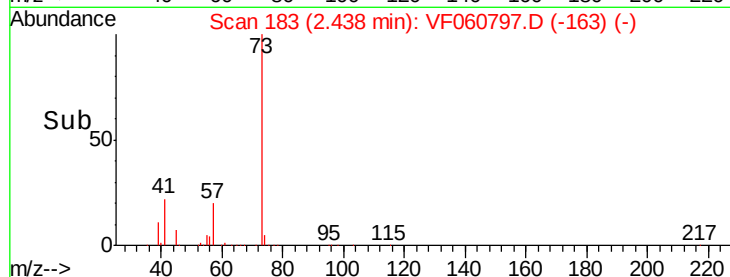
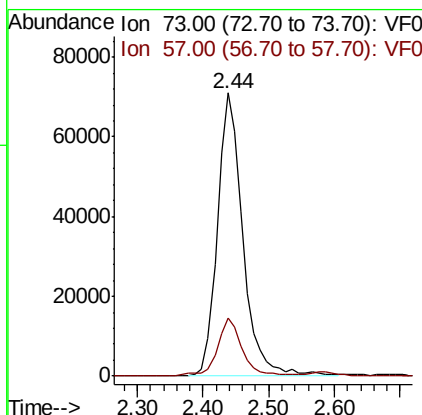
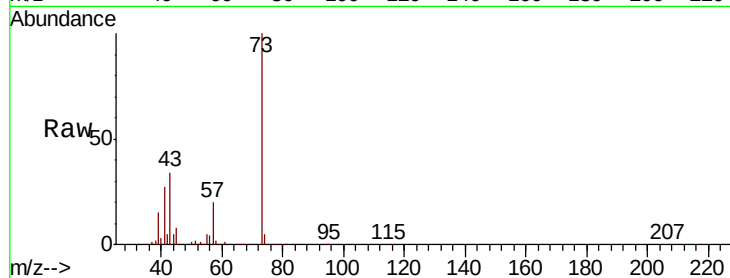
Methyl tert-butyl Ether
 Concen: 55.440 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.3	14.3	21.5

Manual Integrations
 APPROVED

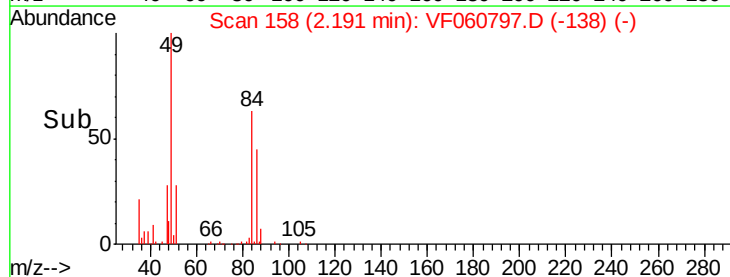
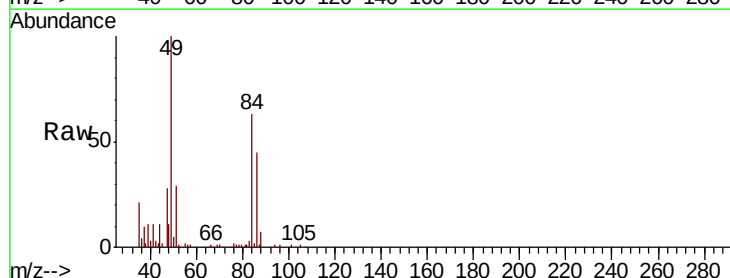
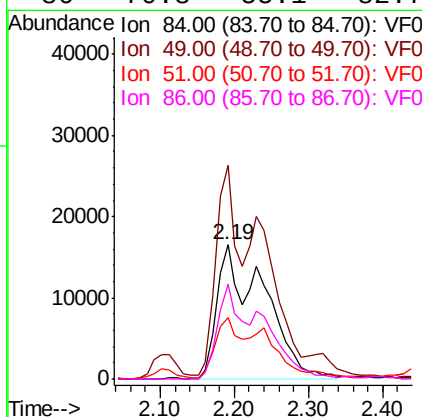
apatel
 11/20/2018 1:20:49 PM

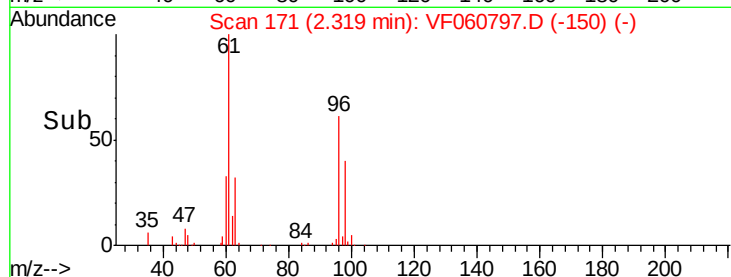
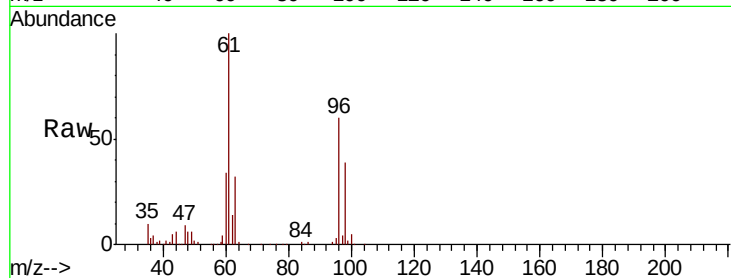
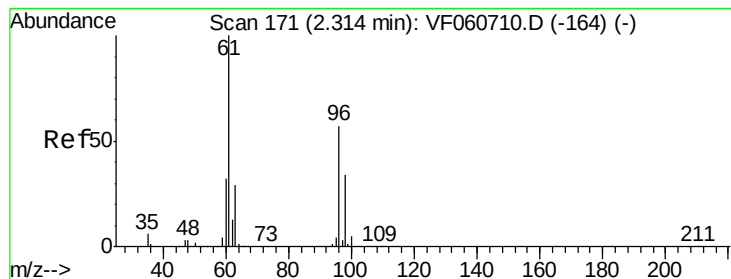


#20

Methylene Chloride
 Concen: 51.085 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
84	100		
49	159.0	120.2	180.4
51	46.0	37.2	55.8
86	70.8	55.1	82.7





#21

trans-1,2-Dichloroethene

Concen: 46.076 ug/l

RT: 2.32 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF060797.D

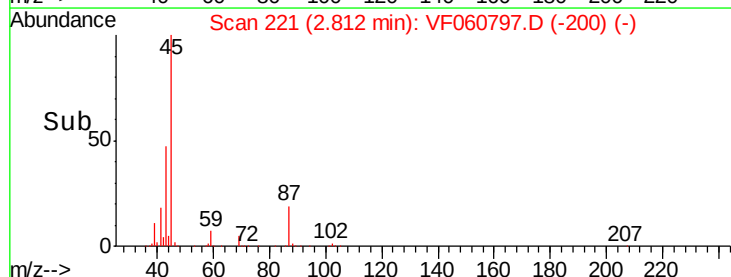
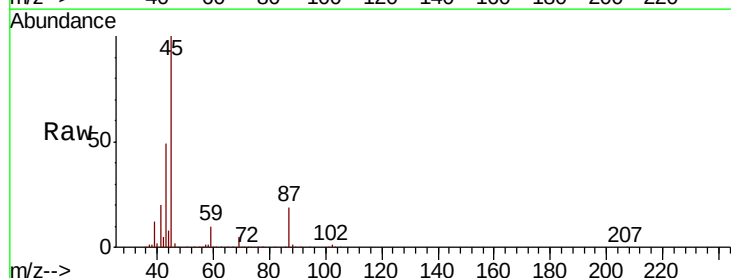
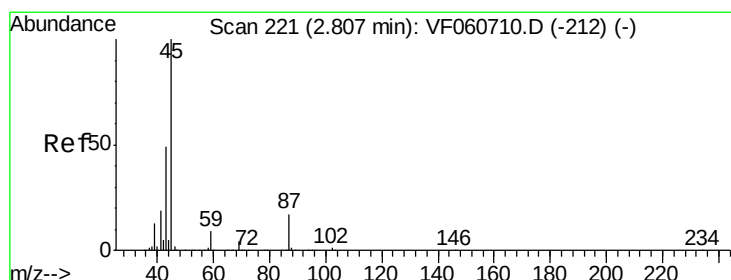
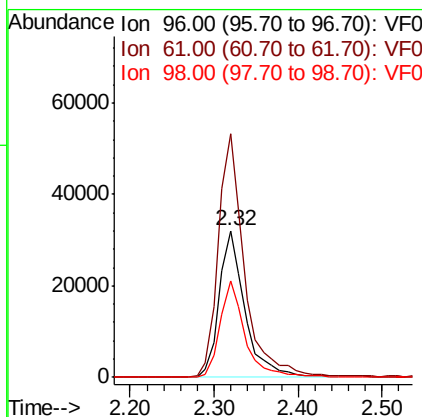
Acq: 20 Nov 2018 1:16

Tot Ion:	96	Resp:	69163
Ion	Ratio	Lower	Upper
96	100		
61	166.3	141.6	212.4
98	65.7	47.4	71.0

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#22

Diisopropyl ether

Concen: 58.684 ug/l

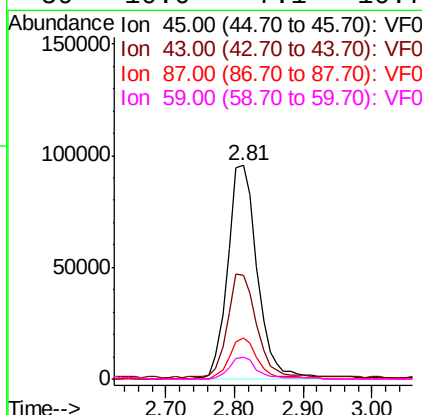
RT: 2.81 min Scan# 221

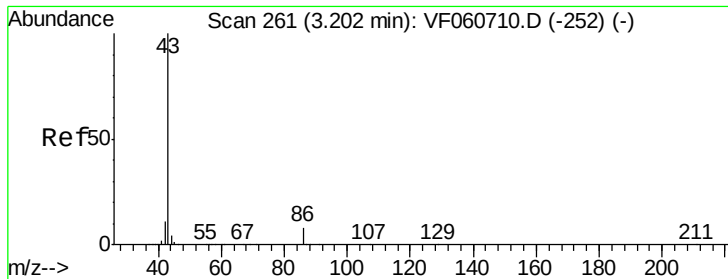
Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	45	Resp:	285162
Ion	Ratio	Lower	Upper
45	100		
43	48.6	39.9	59.9
87	19.1	13.9	20.9
59	10.0	7.1	10.7





#23

Vinyl Acetate

Concen: 202.355 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 43 Resp: 463036

Ion Ratio Lower Upper

43 100

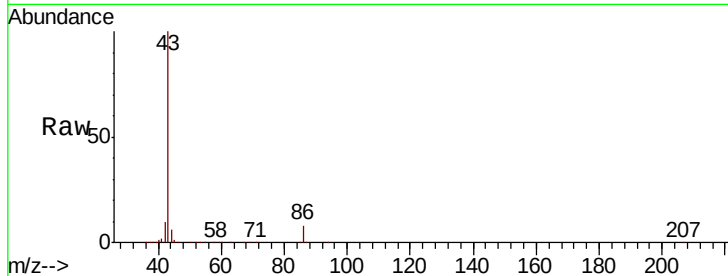
86 7.9 6.4 9.6

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

200000

150000

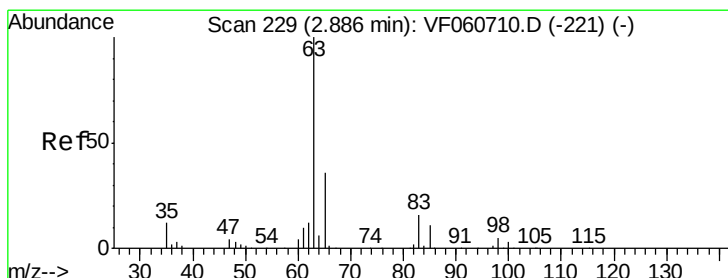
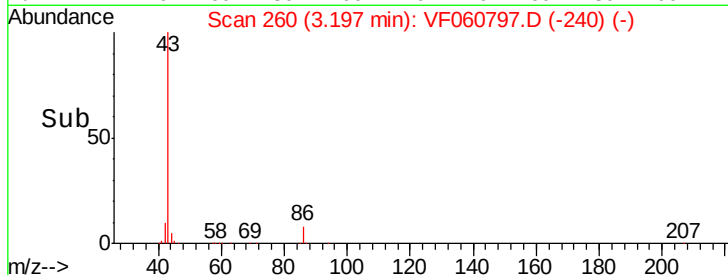
100000

50000

0

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 52.777 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

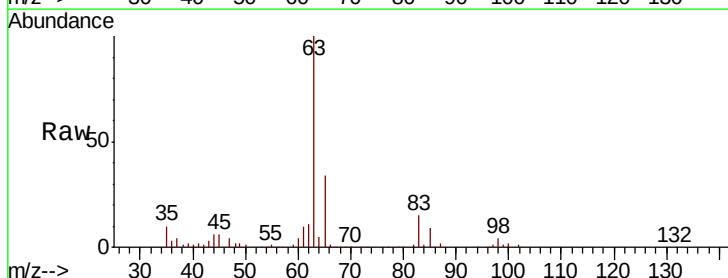
Tgt Ion: 63 Resp: 155266

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.1

100 2.3 1.4 4.2



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

80000

60000

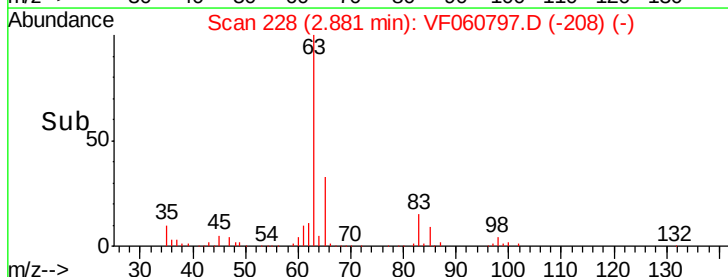
40000

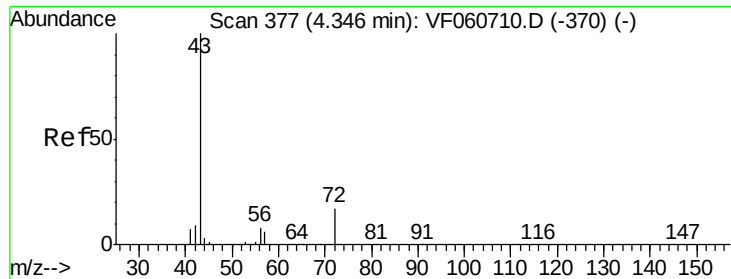
20000

0

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 270.866 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 43 Resp: 191282

Ion Ratio Lower Upper

43 100

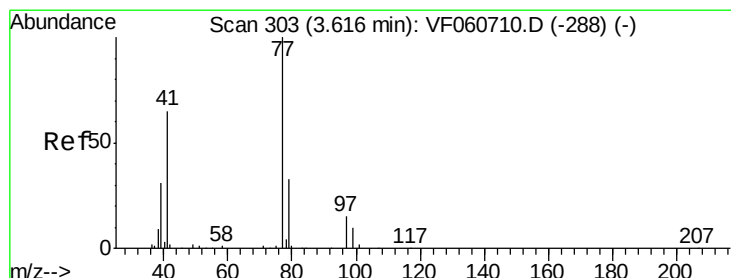
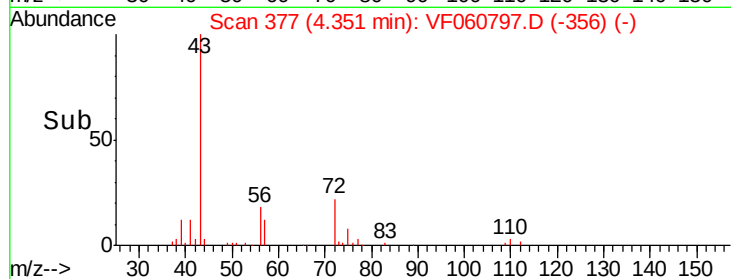
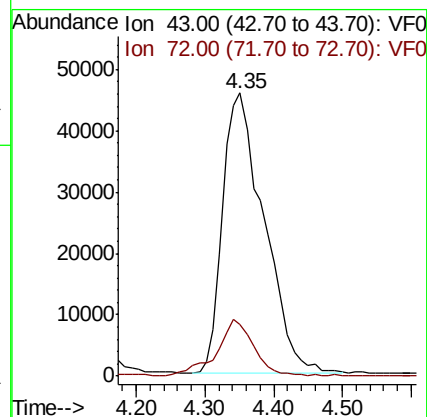
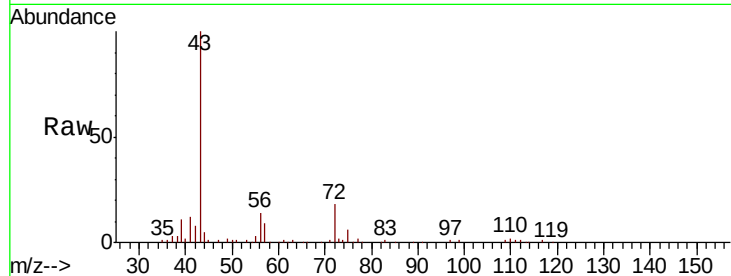
72 18.1 16.1 24.1

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#26

2,2-Dichloropropane

Concen: 46.952 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.00 min

Lab File: VF060797.D

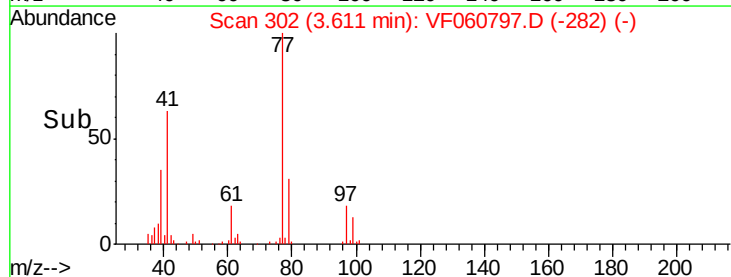
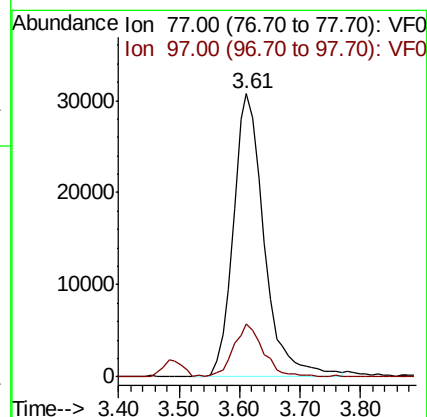
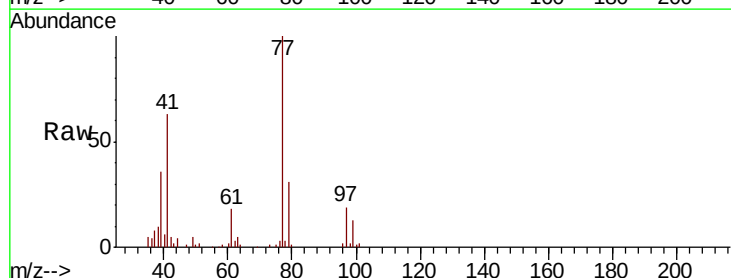
Acq: 20 Nov 2018 1:16

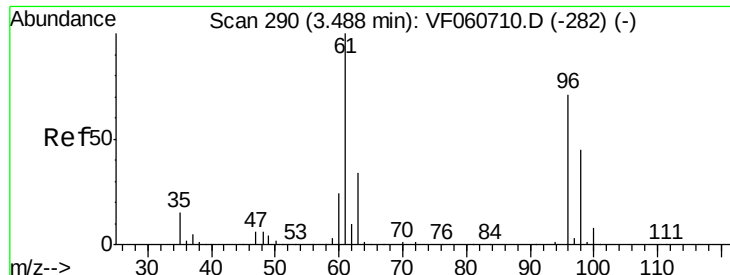
Tgt Ion: 77 Resp: 108696

Ion Ratio Lower Upper

77 100

97 18.8 8.8 26.5





#27

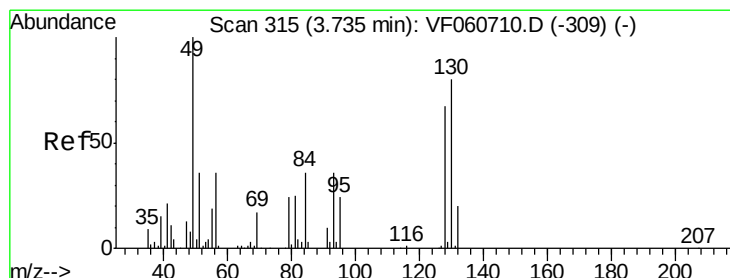
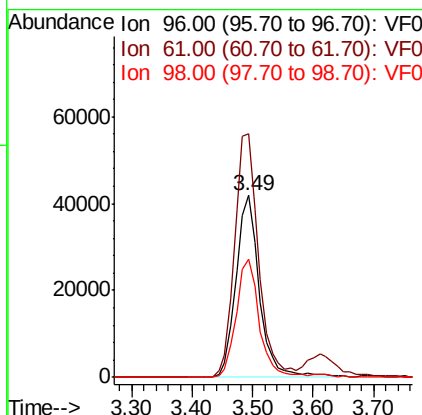
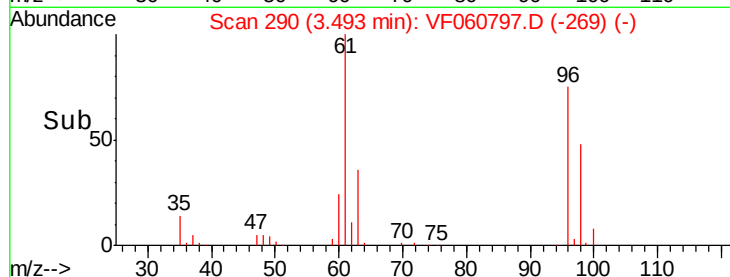
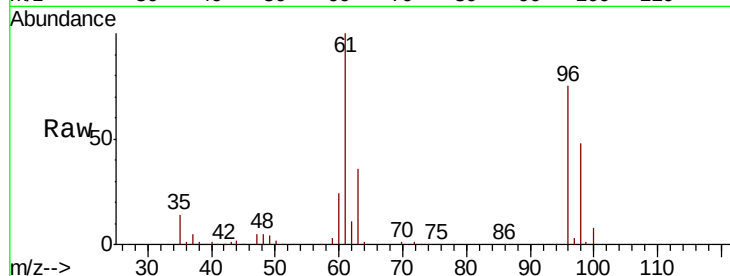
cis-1,2-Dichloroethene
 Concen: 44.360 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Resp	Lower	Upper
96	100	113272		
61	133.9	0.0	280.6	
98	64.6	0.0	127.6	

Manual Integrations
 APPROVED

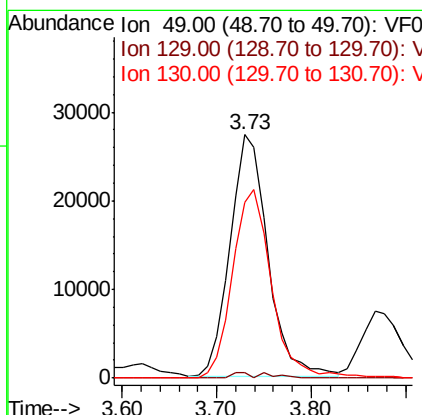
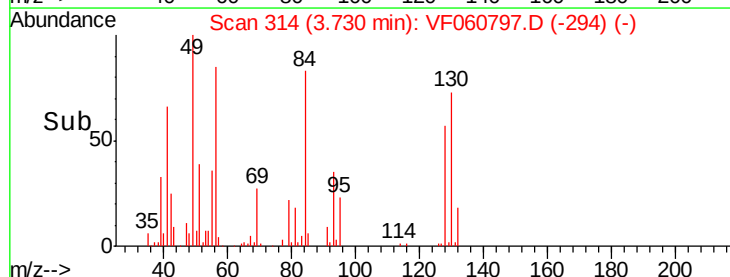
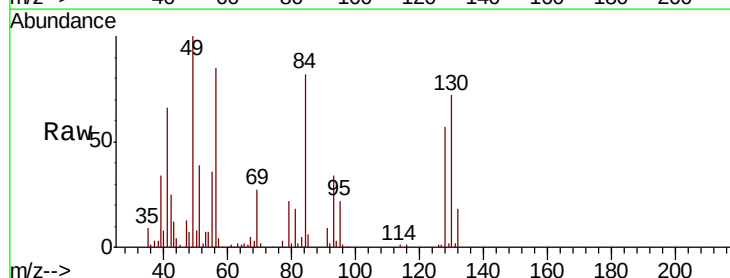
apatel
 11/20/2018 1:20:49 PM

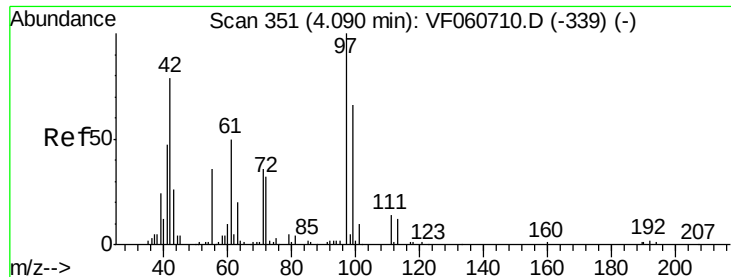


#28

Bromochloromethane
 Concen: 49.295 ug/l
 RT: 3.73 min Scan# 314
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	75368		
129	2.1	0.0	5.2	
130	72.2	63.9	95.9	





#29

Tetrahydrofuran

Concen: 272.669 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

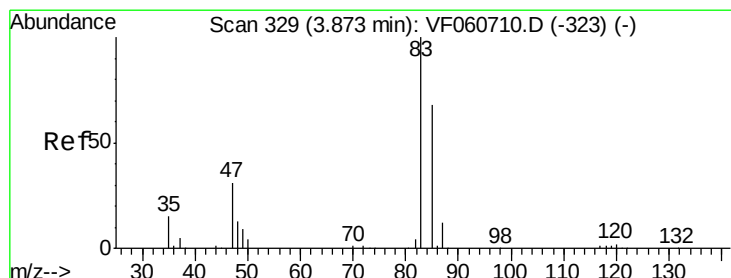
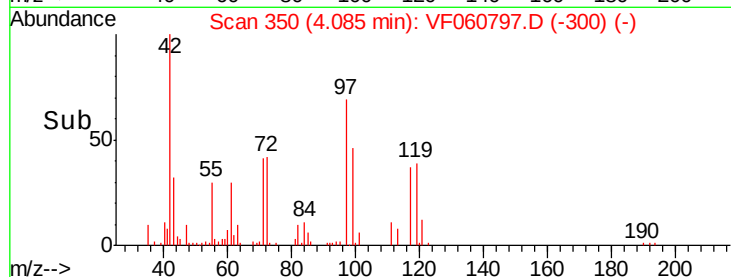
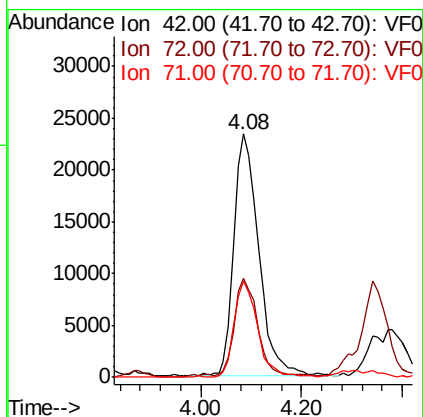
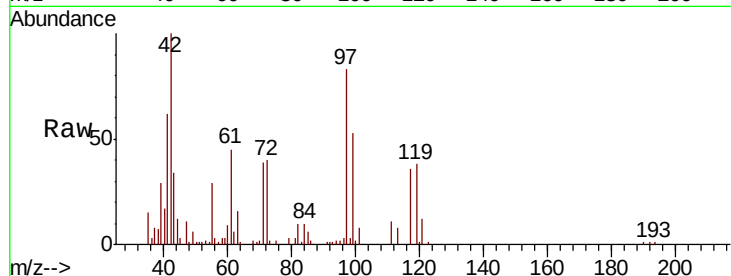
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	42	Resp:	79426
Ion Ratio		Lower	Upper
42	100		
72	38.4	30.3	45.5
71	37.1	32.2	48.2

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#30

Chloroform

Concen: 47.690 ug/l

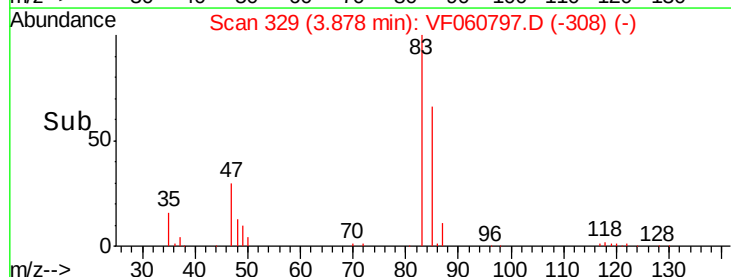
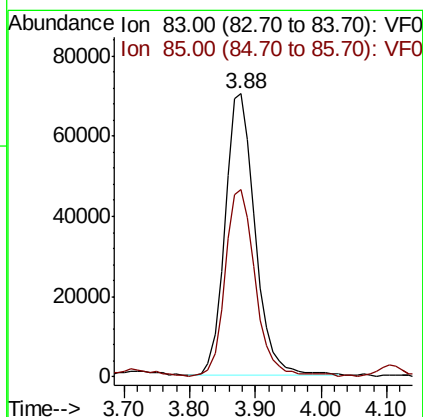
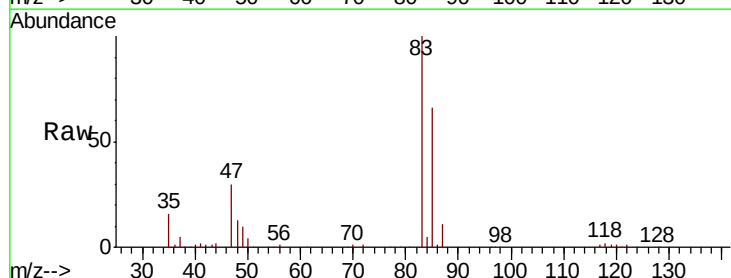
RT: 3.88 min Scan# 329

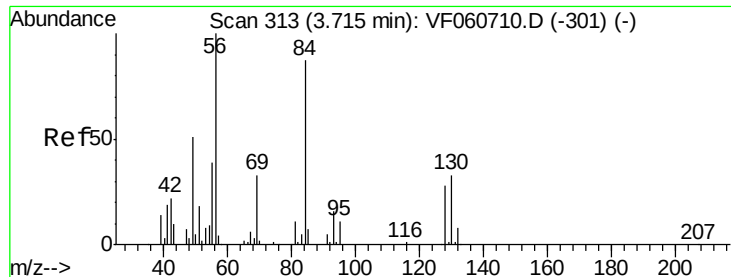
Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	83	Resp:	225105
Ion Ratio		Lower	Upper
83	100		
85	66.3	54.6	82.0





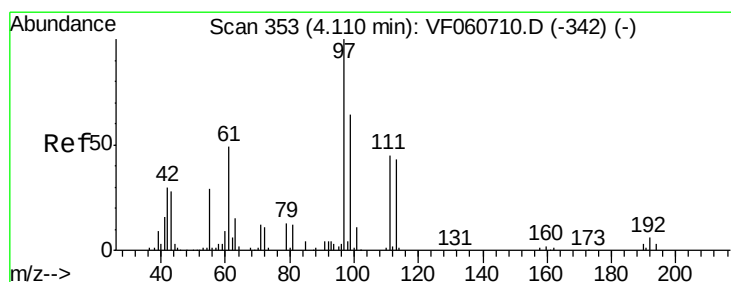
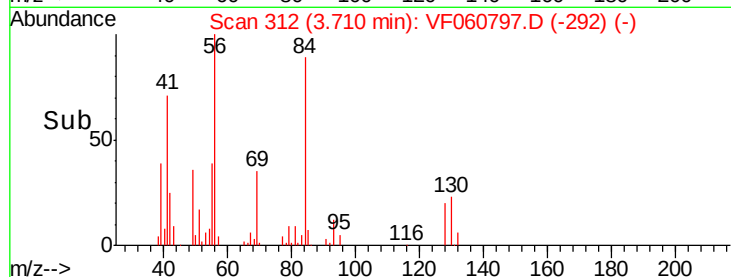
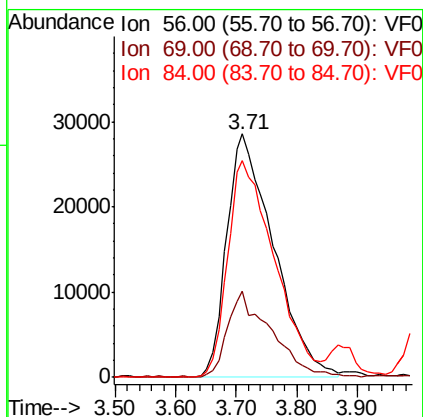
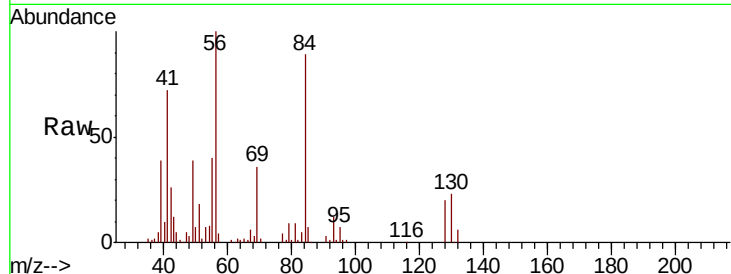
#31
Cyclohexane
Concen: 42.986 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.6	26.0	39.0
84	89.0	69.4	104.2

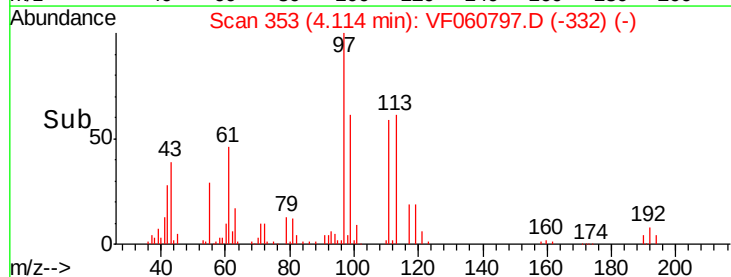
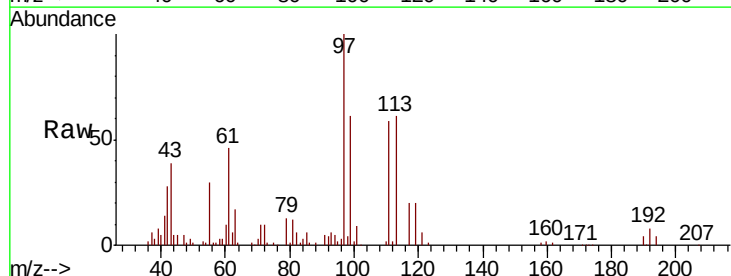
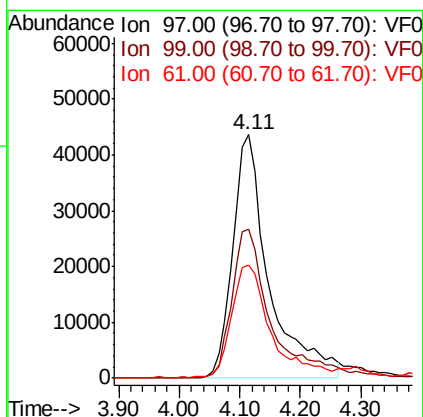
Manual Integrations
APPROVED

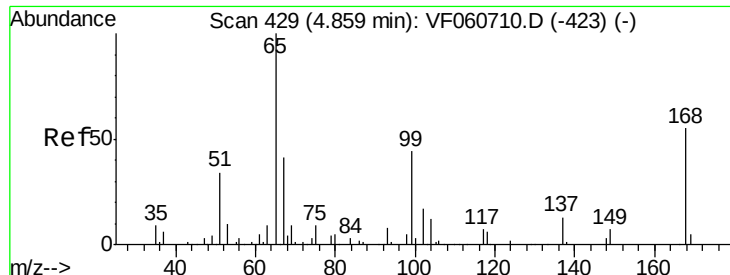
apatel
11/20/2018 1:20:49 PM



#32
1,1,1-Trichloroethane
Concen: 49.174 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.1	76.7
61	46.3	40.1	60.1





#33

1,2-Dichloroethane-d4

Concen: 43.392 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 65 Resp: 87159

Ion Ratio Lower Upper

65 100

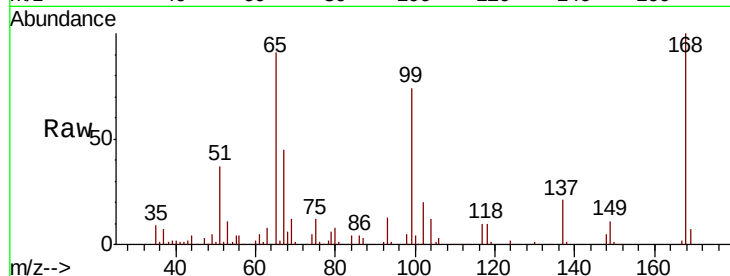
67 49.6 0.0 90.2

Manual Integrations

APPROVED

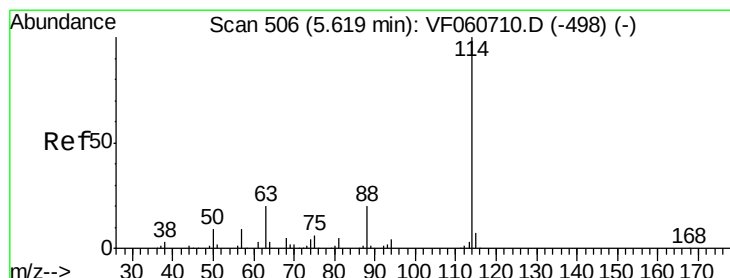
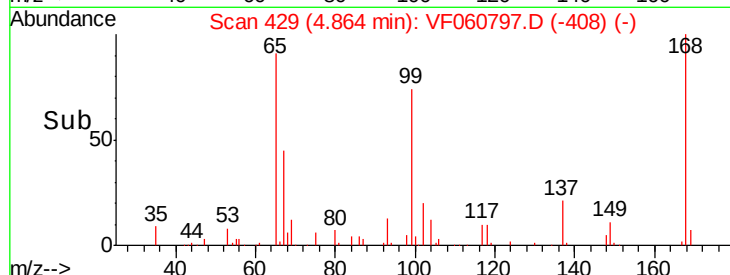
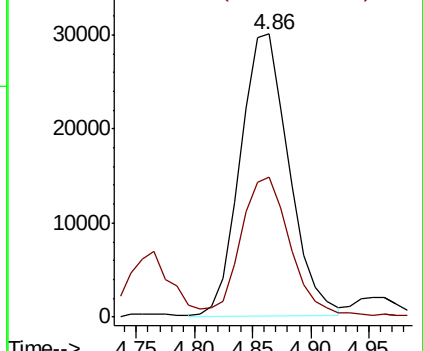
apatel

11/20/2018 1:20:49 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

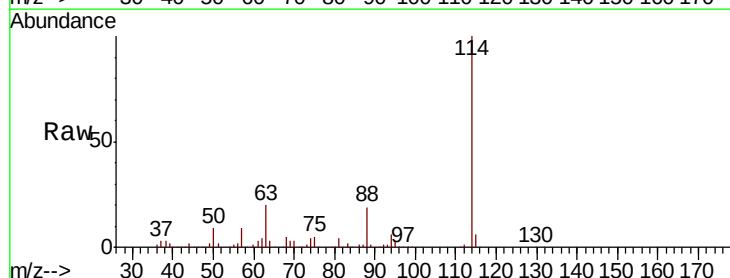
Tgt Ion: 114 Resp: 298855

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

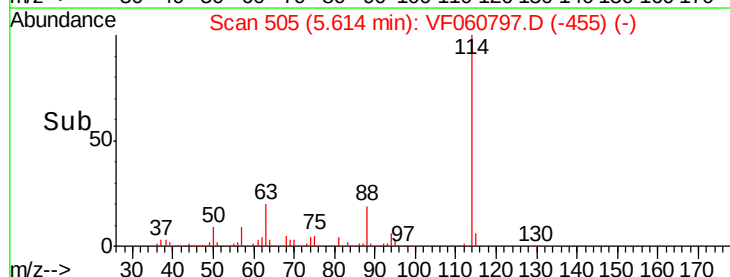
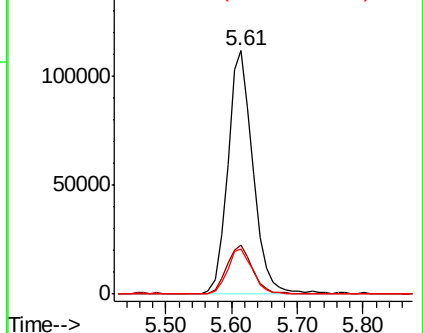
88 18.7 0.0 39.6

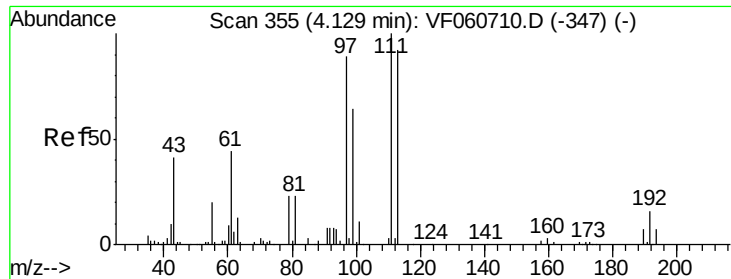


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 45.264 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

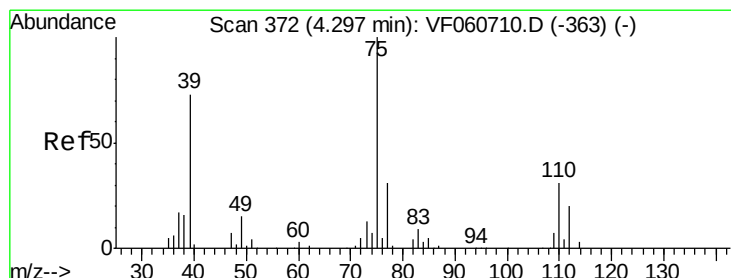
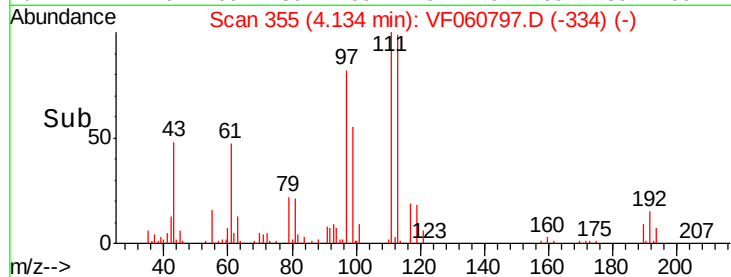
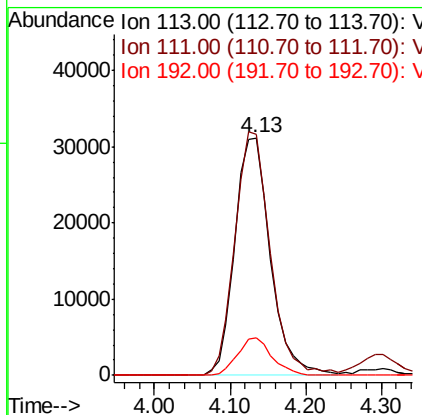
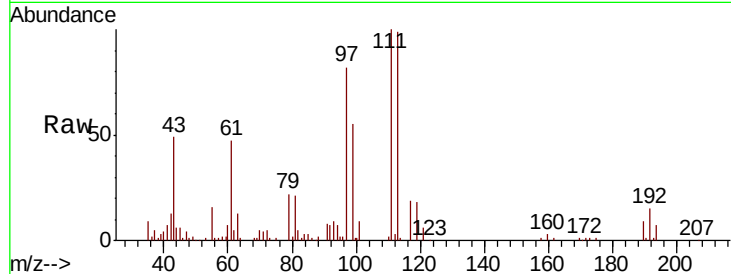
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	113	Resp:	101684
Ion Ratio	Lower	Upper	
113	100		
111	101.4	87.1	130.7
192	15.7	13.8	20.6

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#36

1,1-Dichloropropene

Concen: 45.405 ug/l

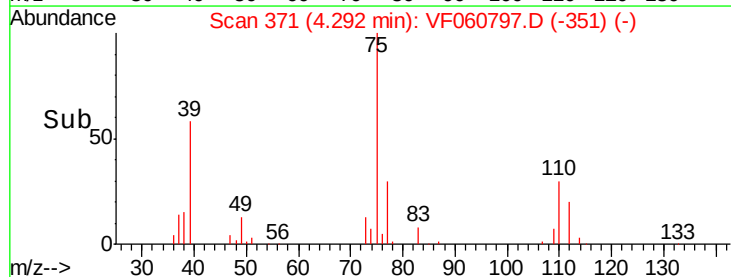
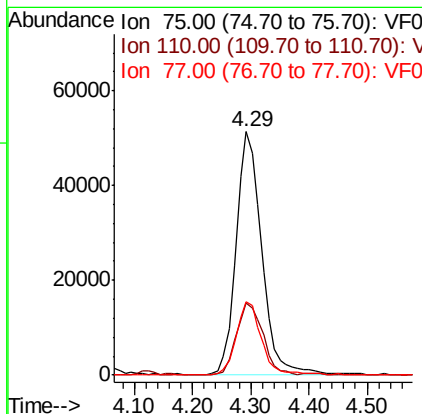
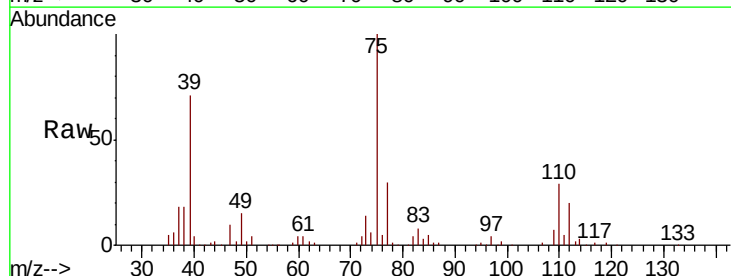
RT: 4.29 min Scan# 371

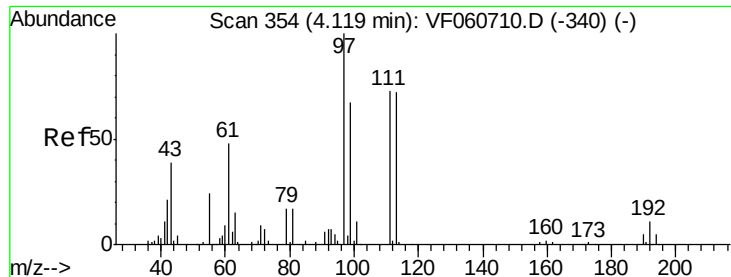
Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	75	Resp:	157374
Ion Ratio	Lower	Upper	
75	100		
110	29.4	15.6	46.8
77	29.9	25.0	37.6





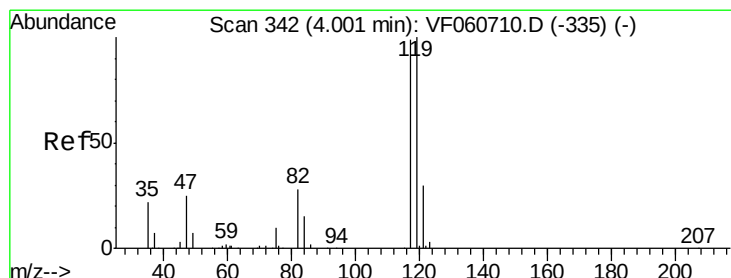
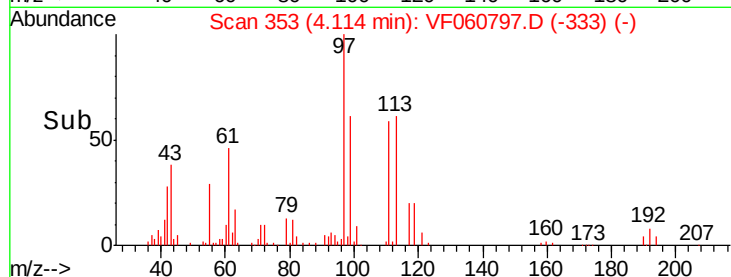
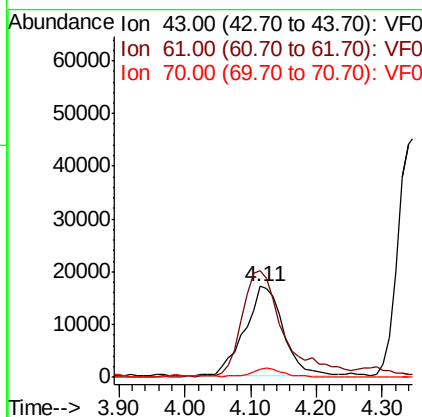
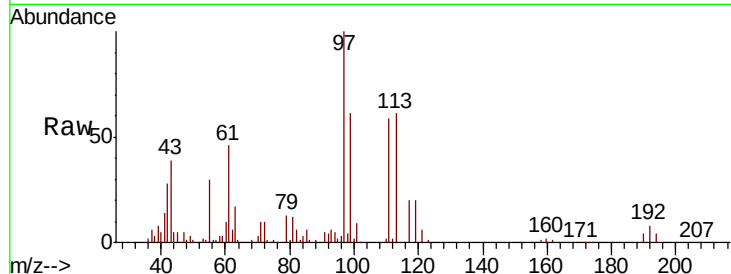
#37
Ethyl Acetate
Concen: 53.844 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	43	61	70	Resp	Lower	Upper
43	100					
61	117.4	98.5			147.7	
70	8.3	7.4			11.0	

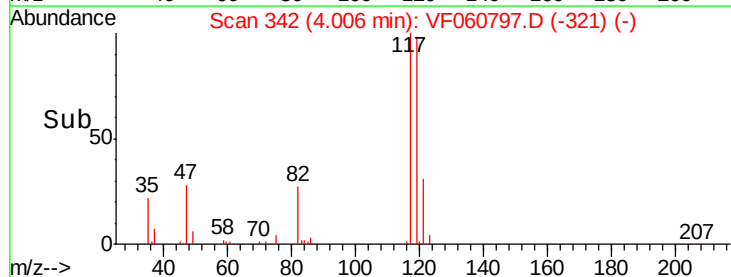
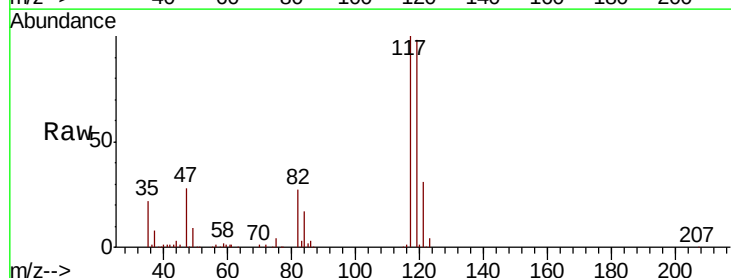
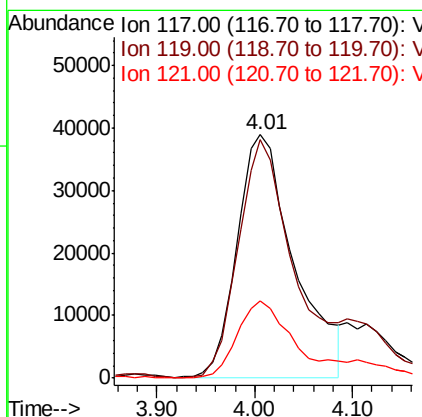
Manual Integrations
APPROVED

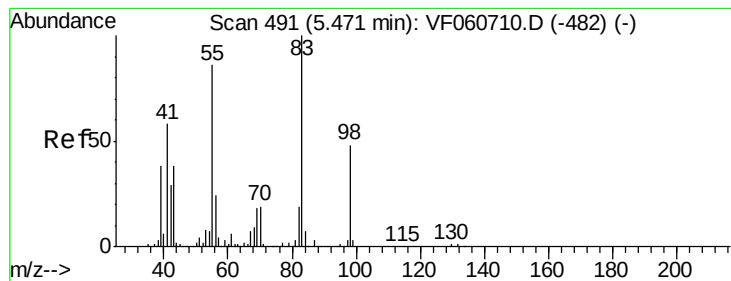
apatel
11/20/2018 1:20:49 PM



#38
Carbon Tetrachloride
Concen: 47.102 ug/l m
RT: 4.01 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	117	119	121	Resp	Lower	Upper
117	100					
119	98.1	80.7			121.1	
121	31.5	24.3			36.5	





#39

Methylvlcyclohexane

Concen: 38.337 ug/l

RT: 5.47 min Scan# 490

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

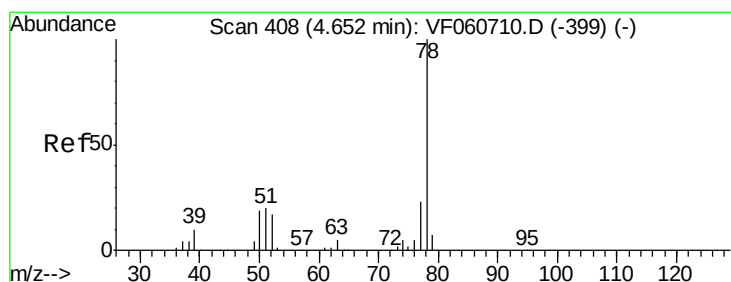
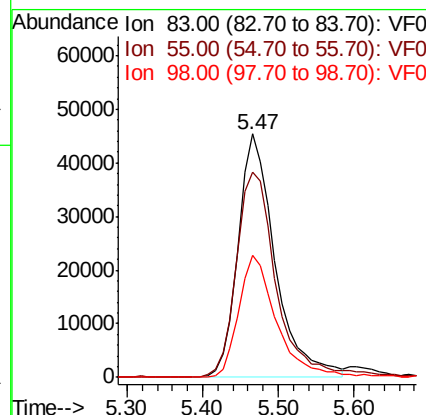
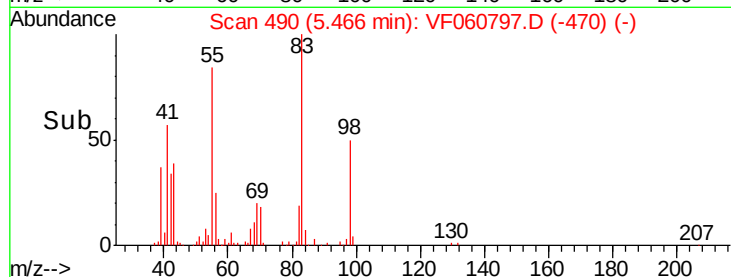
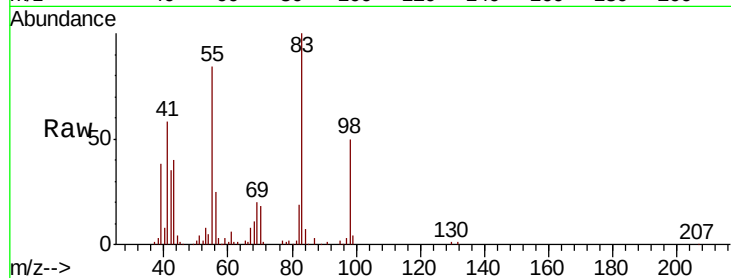
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	83	Resp:	154157
Ion	Ratio	Lower	Upper
83	100		
55	84.3	69.0	103.4
98	50.1	38.5	57.7

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#40

Benzene

Concen: 50.534 ug/l

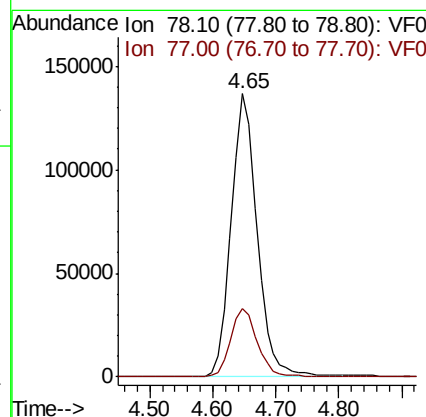
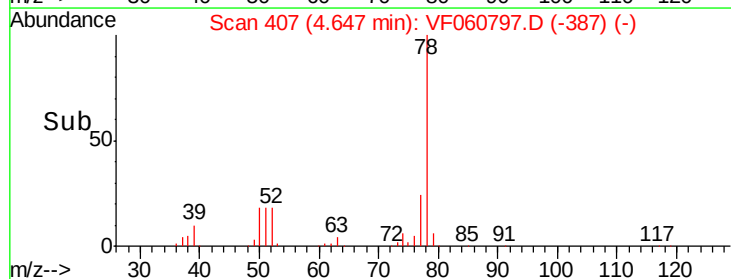
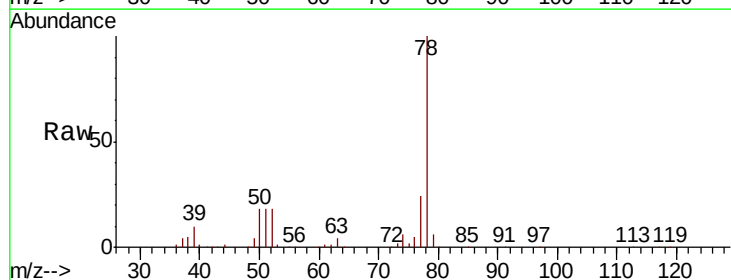
RT: 4.65 min Scan# 407

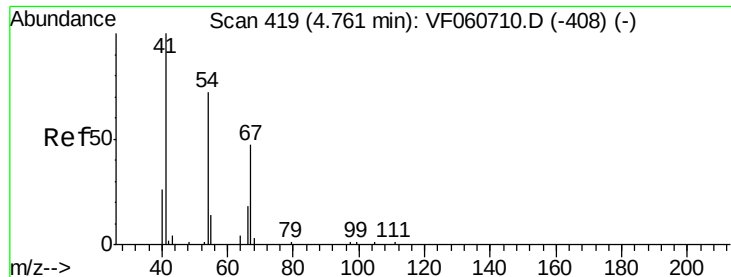
Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	78	Resp:	390433
Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0





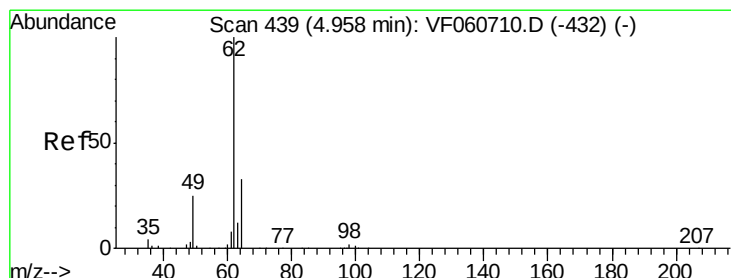
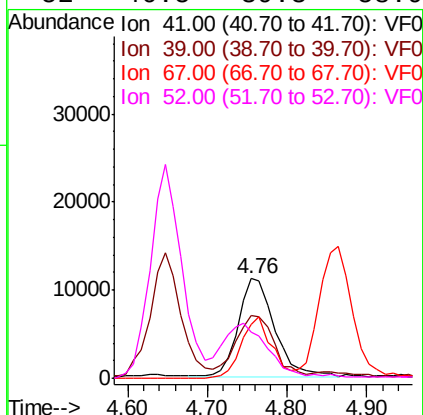
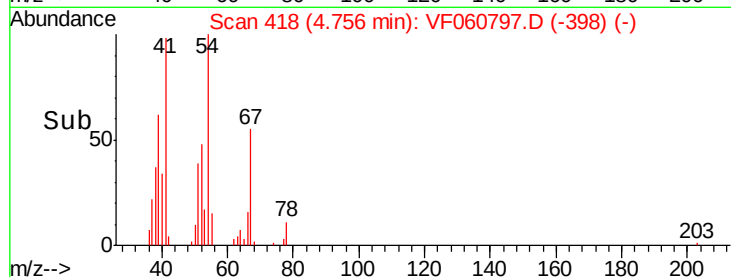
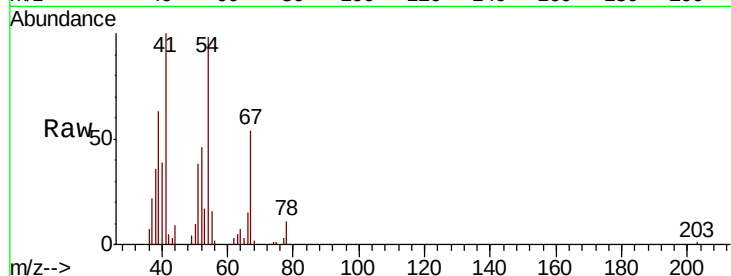
#41
Methacrylonitrile
Concen: 51.259 ug/l
RT: 4.76 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		35141		
39	62.6	47.1	70.7		
67	54.1	37.1	55.7		
52	46.5	39.3	58.9		

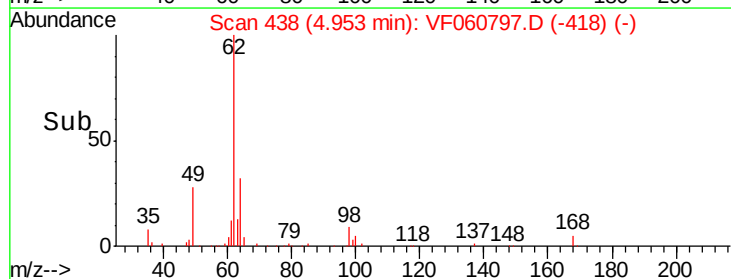
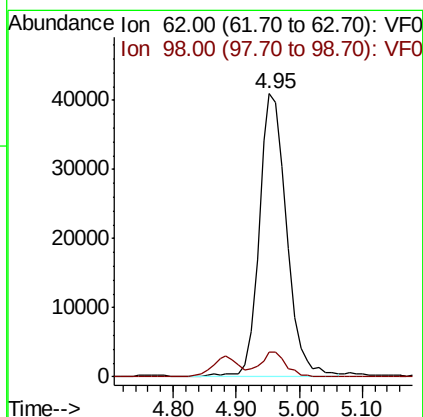
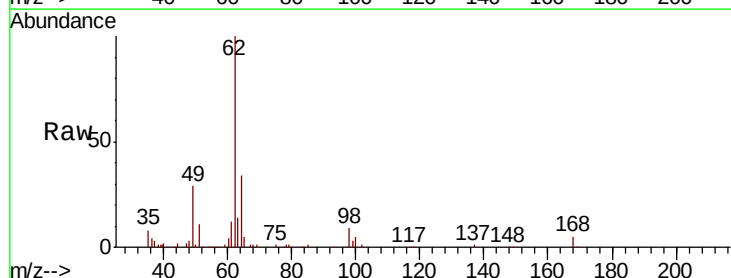
Manual Integrations
APPROVED

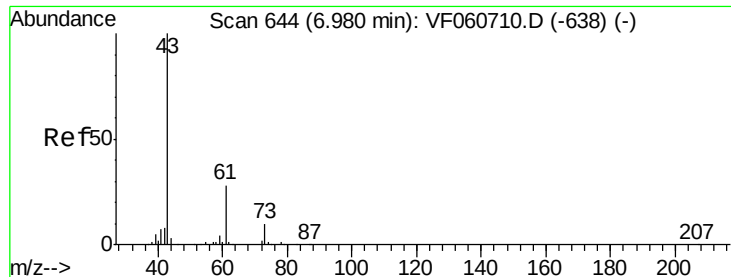
apatel
11/20/2018 1:20:49 PM



#42
1,2-Dichloroethane
Concen: 46.751 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		124823		
98	8.6	0.0	16.6		





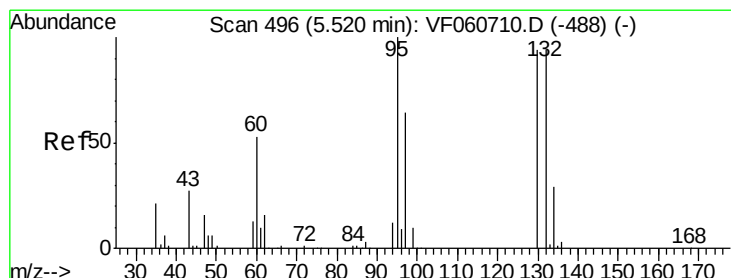
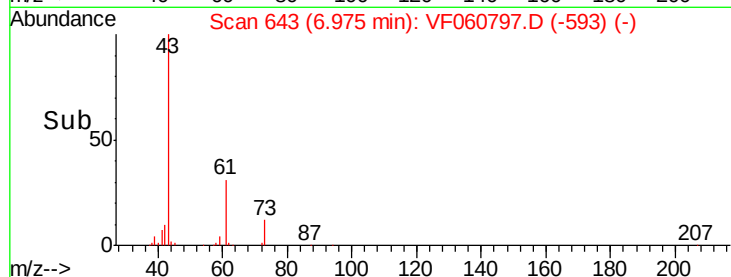
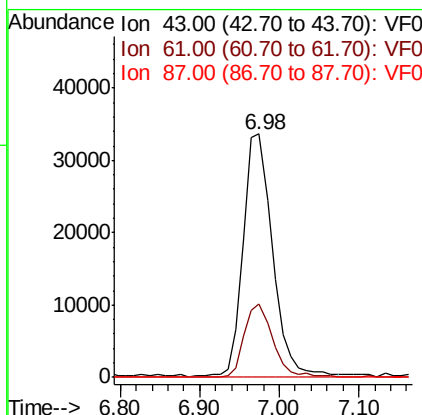
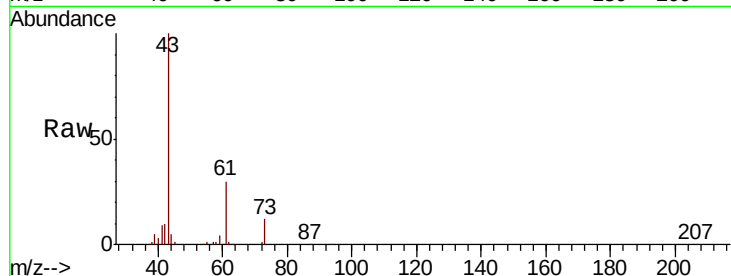
#43
Isopropyl Acetate
Concen: 49.655 ug/l
RT: 6.98 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.2	22.2	33.4
87	0.4	0.4	0.6

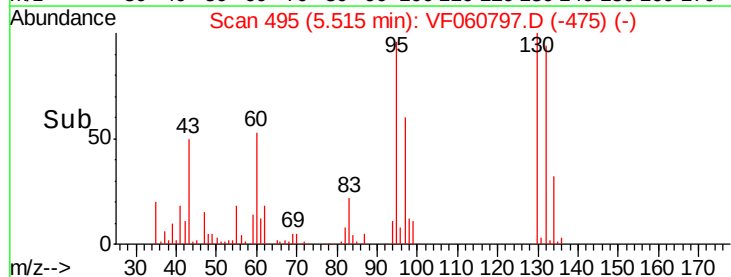
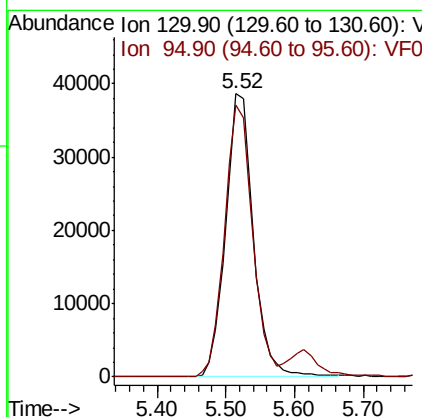
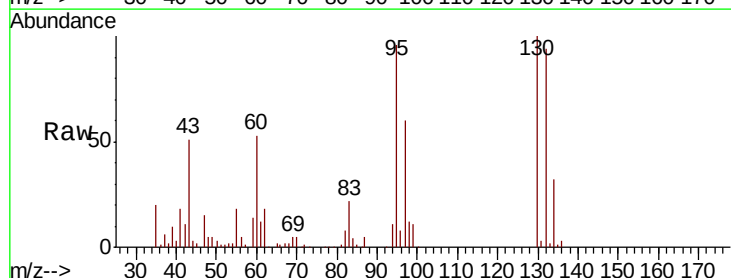
Manual Integrations
APPROVED

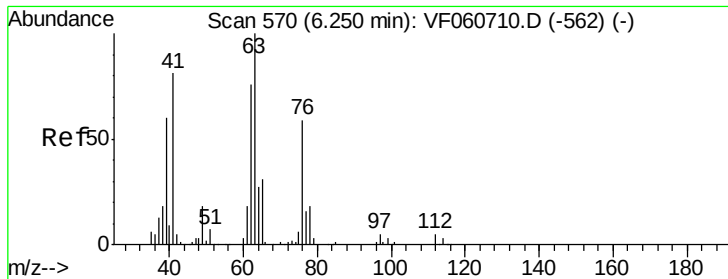
apatel
11/20/2018 1:20:49 PM



#44
Trichloroethene
Concen: 44.363 ug/l
RT: 5.52 min Scan# 495
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	212.6





#45

1,2-Dichloropropane

Concen: 54.447 ug/l

RT: 6.25 min Scan# 569

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 63 Resp: 109465

Ion Ratio Lower Upper

63 100

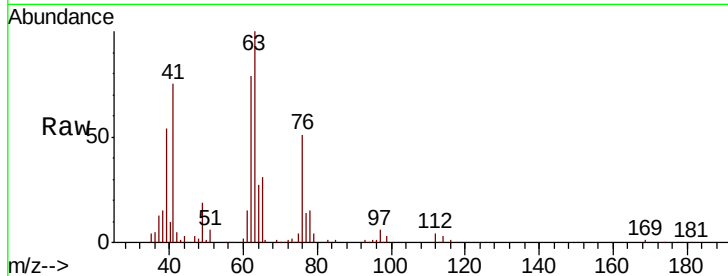
65 30.8 24.6 36.8

Manual Integrations

APPROVED

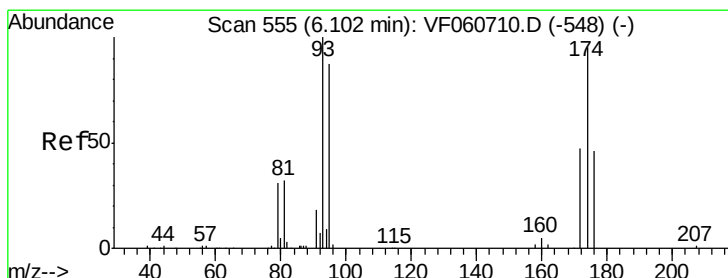
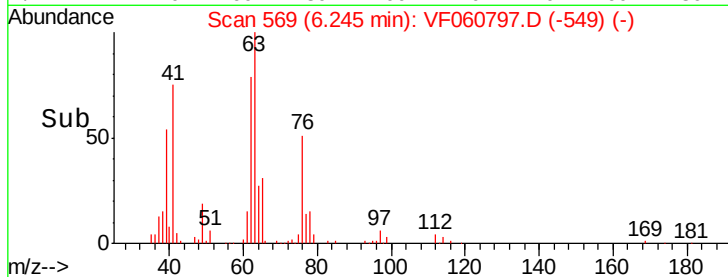
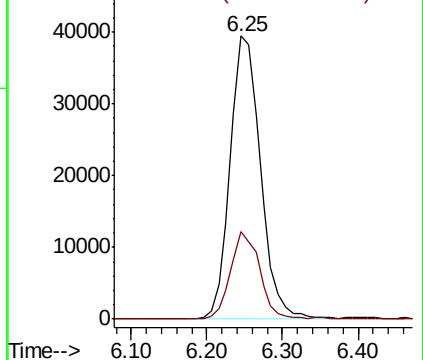
apatel

11/20/2018 1:20:49 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 46.286 ug/l

RT: 6.10 min Scan# 554

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

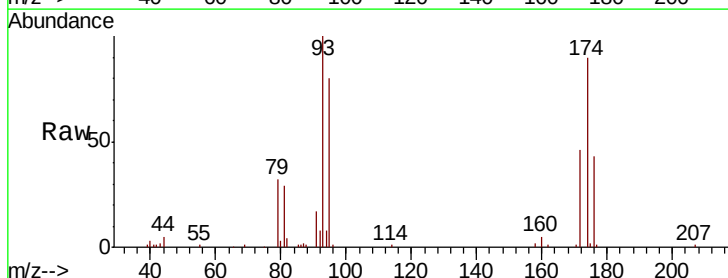
Tgt Ion: 93 Resp: 61428

Ion Ratio Lower Upper

93 100

95 80.5 69.5 104.3

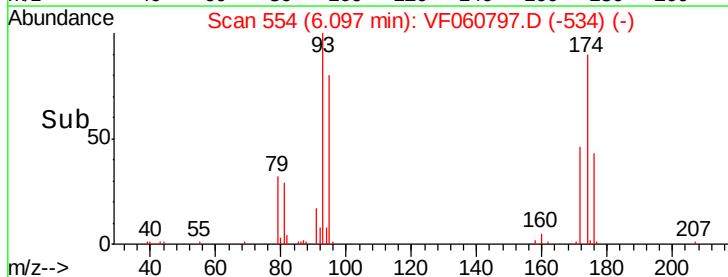
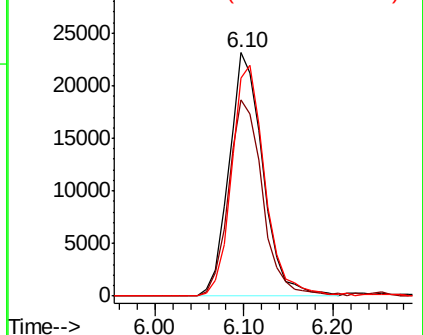
174 89.6 76.2 114.2

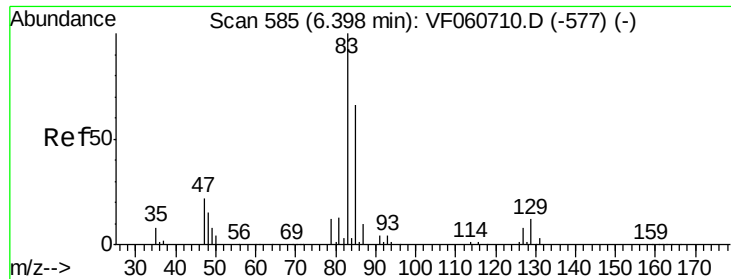


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 49.070 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

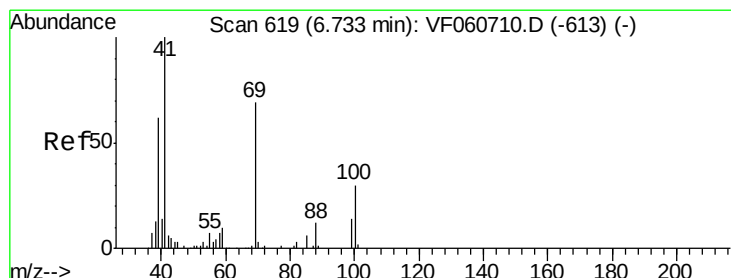
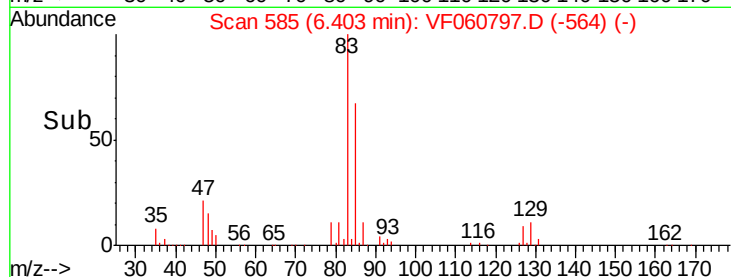
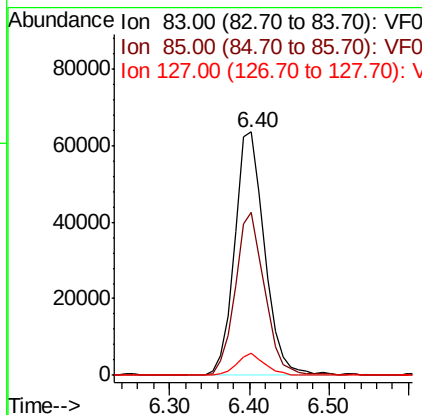
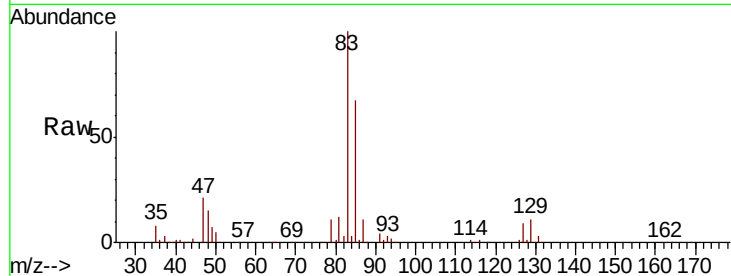
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	83	Resp:	166299
Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.4	78.6
127	9.2	6.8	10.2

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#48

Methyl methacrylate

Concen: 53.445 ug/l

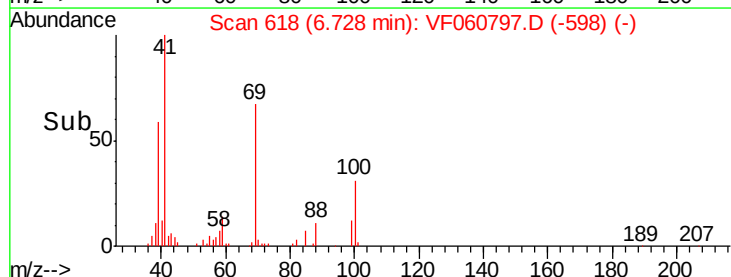
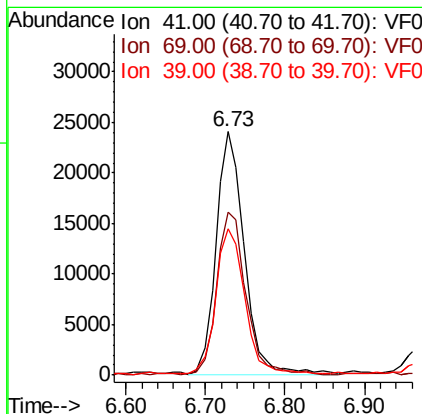
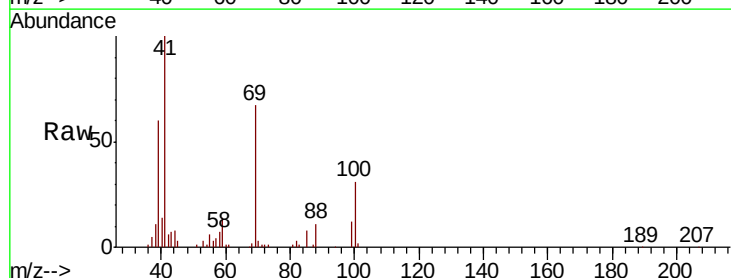
RT: 6.73 min Scan# 618

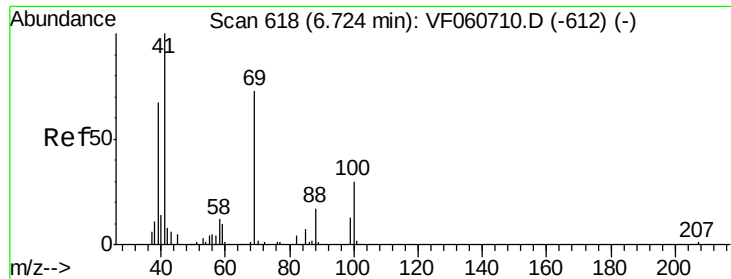
Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	41	Resp:	60431
Ion	Ratio	Lower	Upper
41	100		
69	66.9	54.9	82.3
39	60.1	49.6	74.4





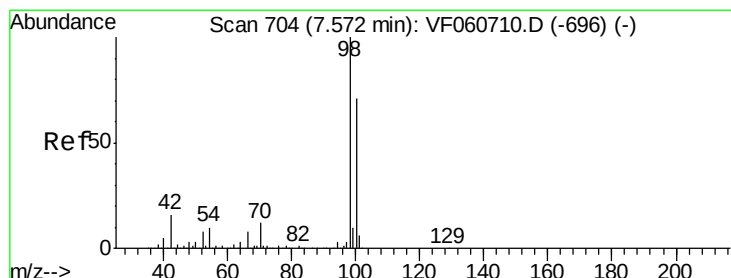
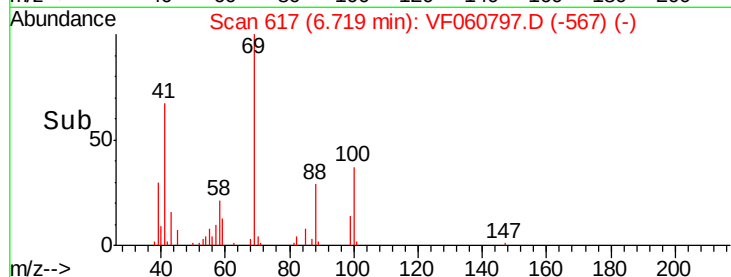
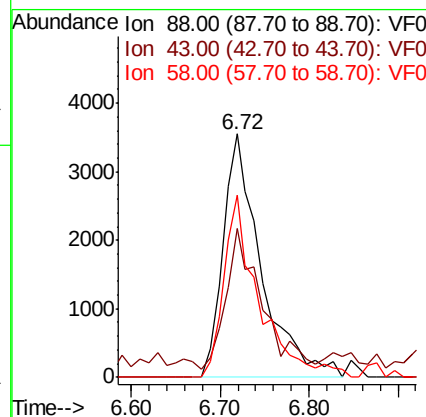
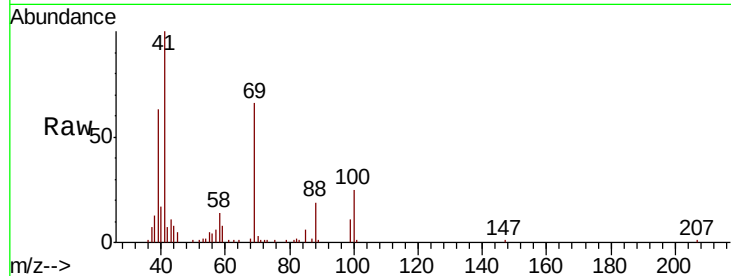
#49
1,4-Dioxane
Concen: 999.346 ug/l
RT: 6.72 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	61.1		44.6	66.8
58	74.7		54.5	81.7

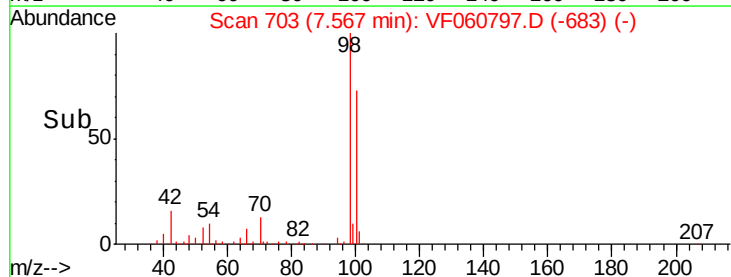
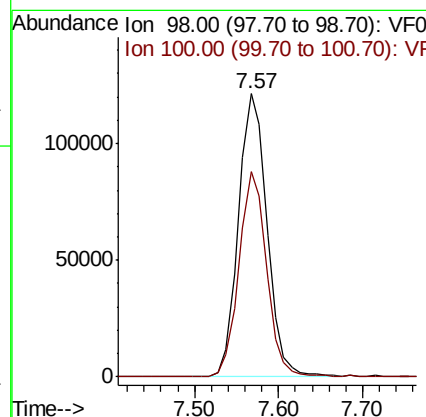
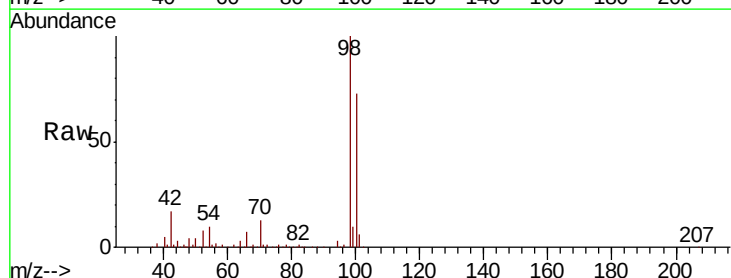
Manual Integrations
APPROVED

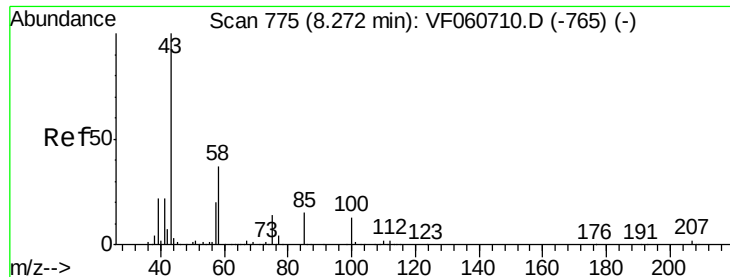
apatel
11/20/2018 1:20:49 PM



#50
Toluene-d8
Concen: 49.983 ug/l
RT: 7.57 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	72.6		56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 269.827 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 43 Resp: 333418

Ion Ratio Lower Upper

43 100

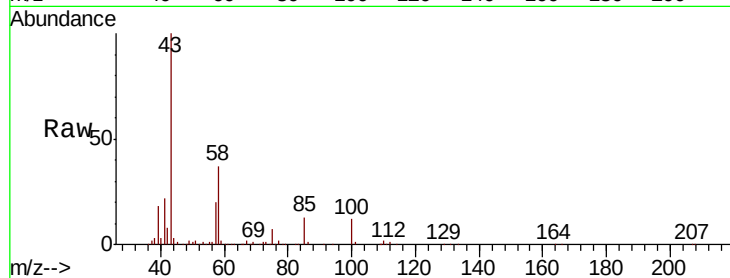
58 37.2 29.2 43.8

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

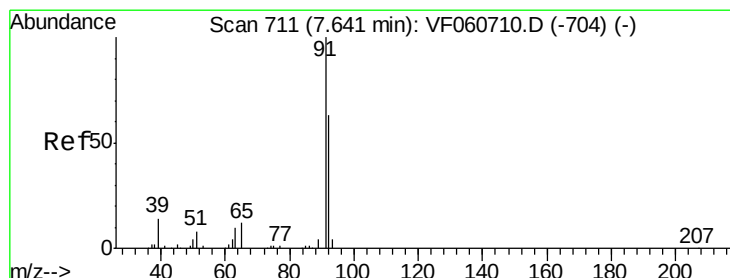
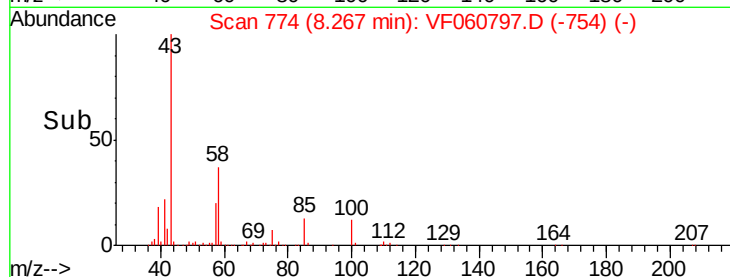
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 46.526 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF060797.D

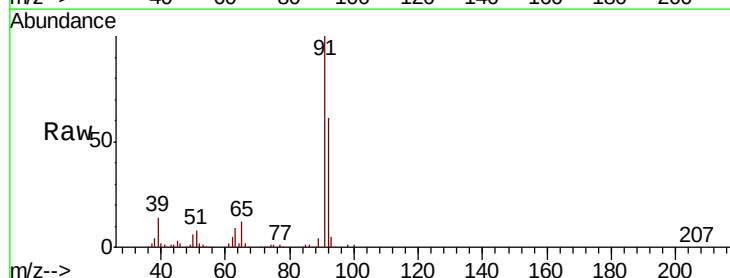
Acq: 20 Nov 2018 1:16

Tgt Ion: 92 Resp: 240888

Ion Ratio Lower Upper

92 100

91 164.0 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.64

200000

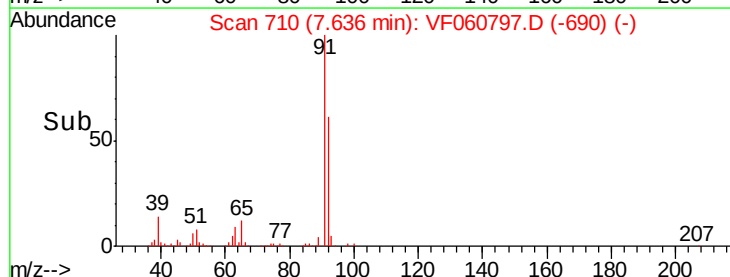
150000

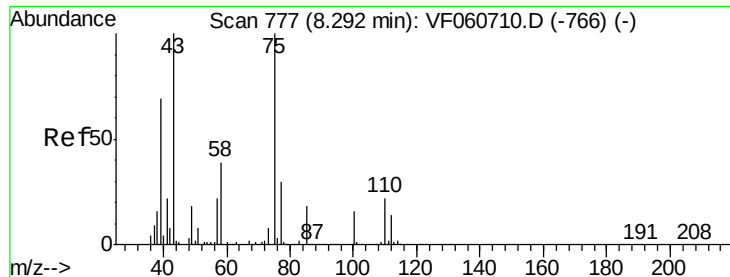
100000

50000

0

Time-->





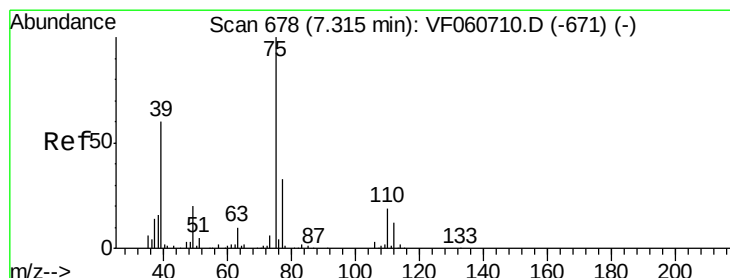
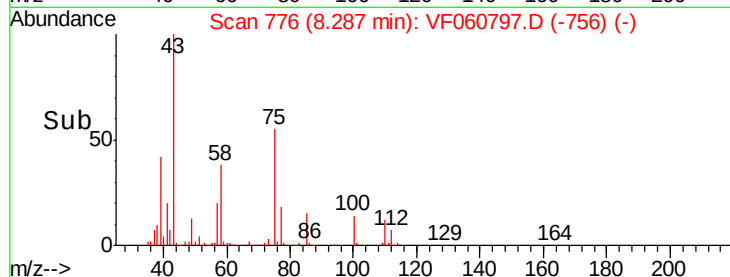
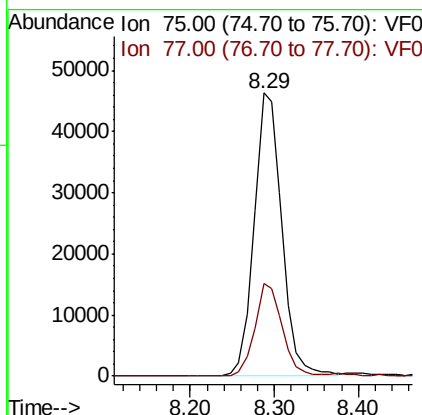
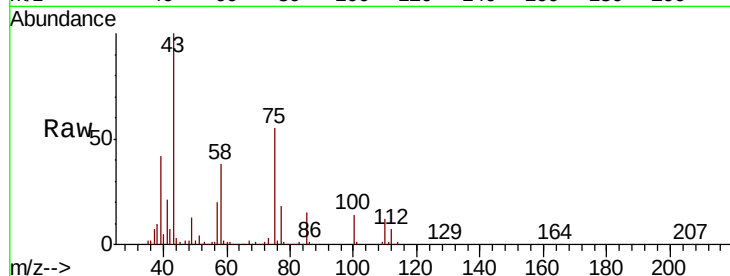
#53
 t-1,3-Dichloropropene
 Concen: 39.525 ug/l
 RT: 8.29 min Scan# 776
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.6	36.8

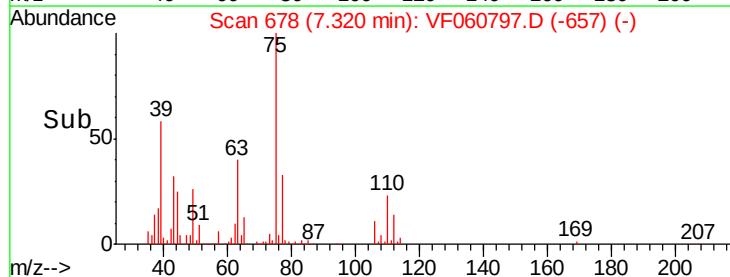
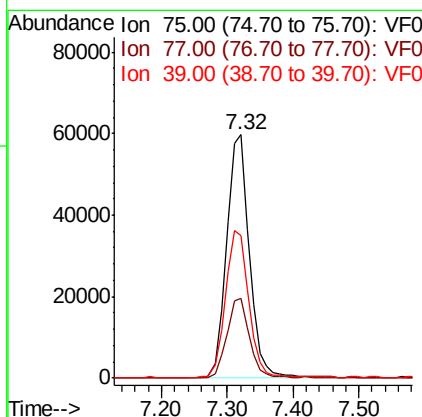
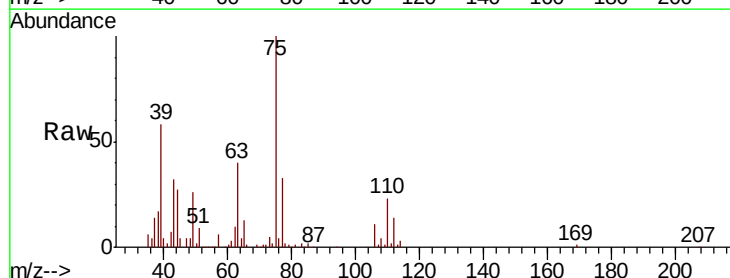
Manual Integrations
 APPROVED

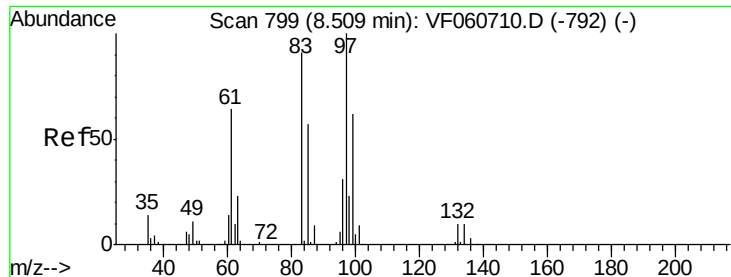
apatel
 11/20/2018 1:20:49 PM



#54
 cis-1,3-Dichloropropene
 Concen: 41.600 ug/l
 RT: 7.32 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.5	39.7
39	58.4	48.5	72.7





#55

1,1,2-Trichloroethane

Concen: 48.797 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

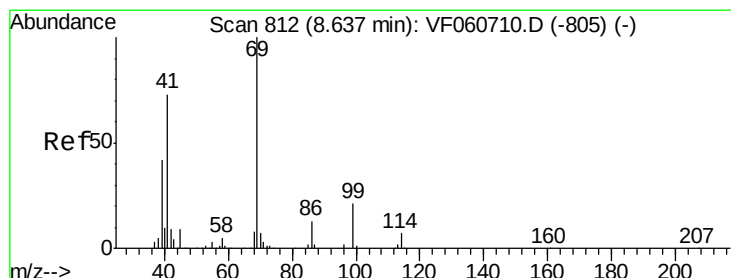
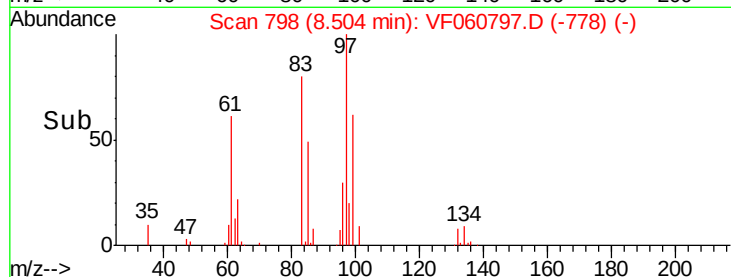
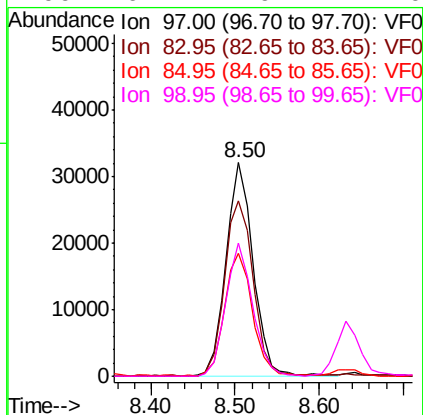
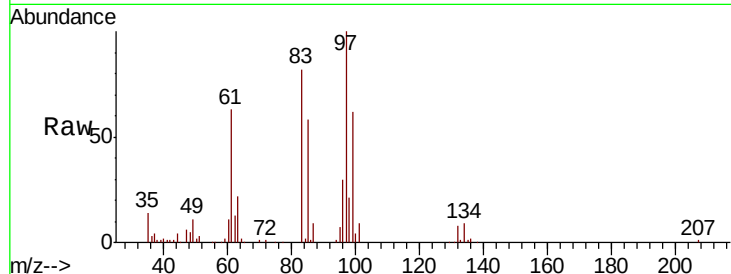
ClientSampleId :

VTW-01(7-10)MS

Tot Ion:	97	Resp:	72186
Ion	Ratio	Lower	Upper
97	100		
83	82.2	72.8	109.2
85	57.6	45.8	68.6
99	62.1	49.4	74.0

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#56

Ethyl methacrylate

Concen: 50.586 ug/l

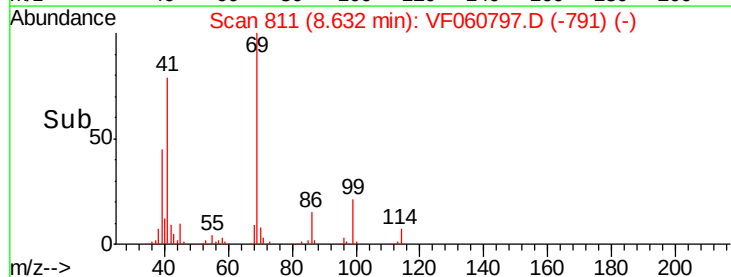
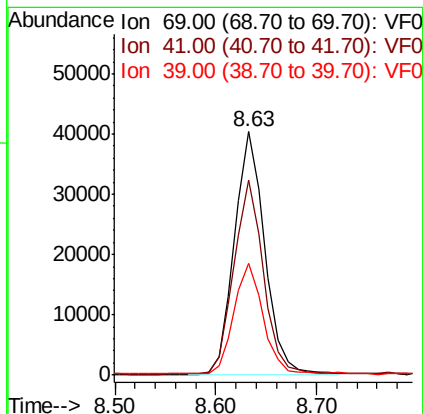
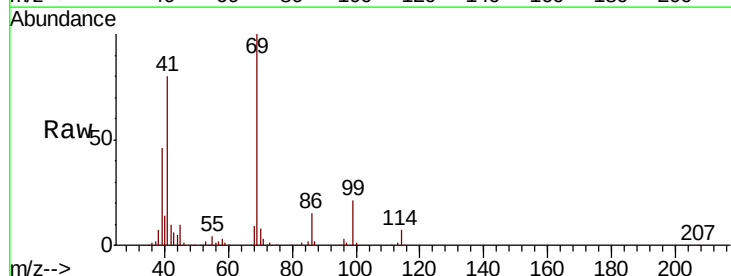
RT: 8.63 min Scan# 811

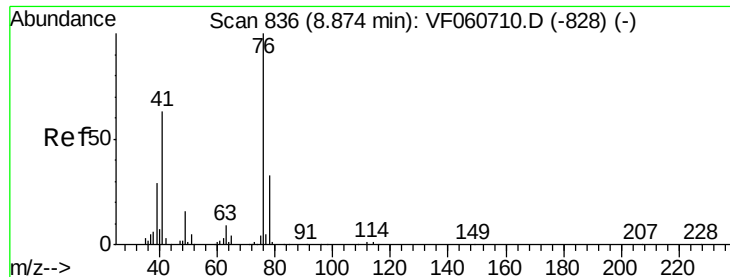
Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion:	69	Resp:	84987
Ion	Ratio	Lower	Upper
69	100		
41	80.1	59.0	88.6
39	45.7	34.0	51.0





#57

1,3-Dichloropropane

Concen: 49.993 ug/l

RT: 8.87 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 76 Resp: 128169

Ion Ratio Lower Upper

76 100

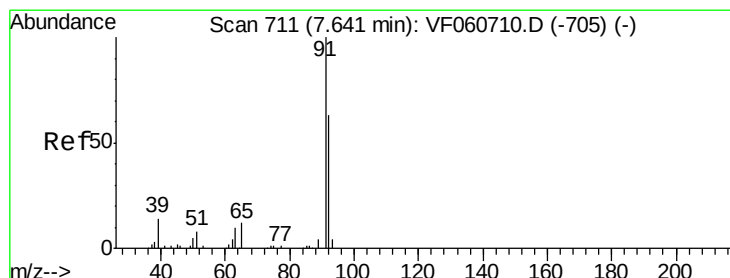
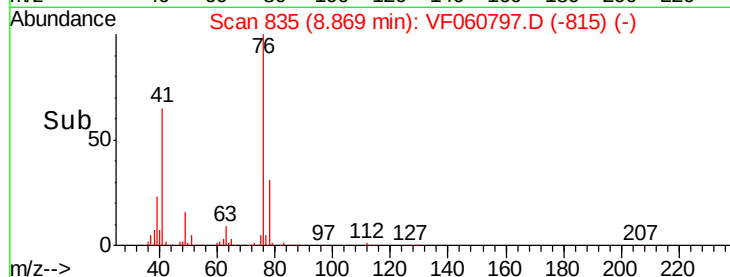
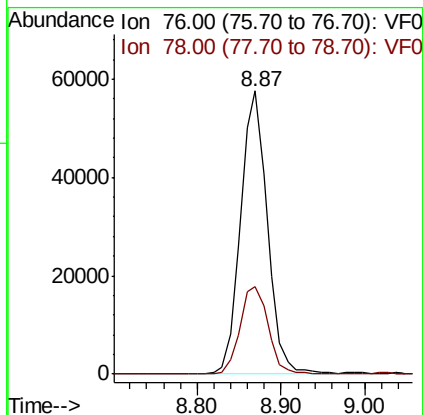
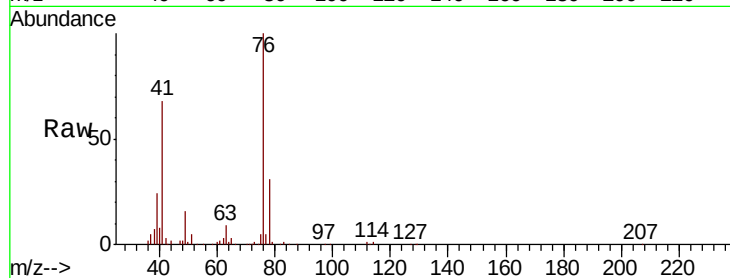
78 30.7 26.6 39.8

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#58

2-Chloroethyl Vinyl ether

Concen: 231.339 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF060797.D

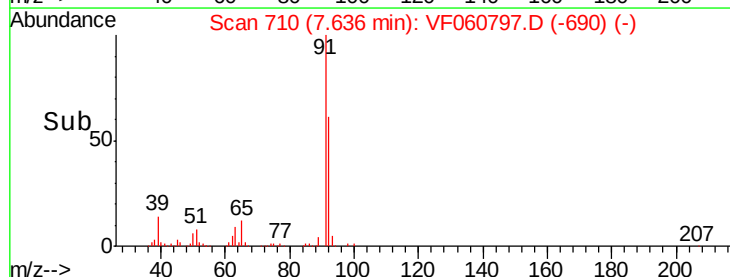
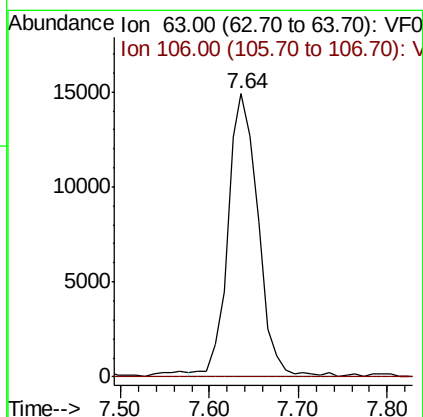
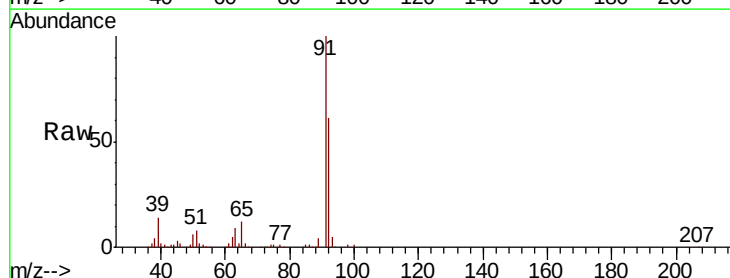
Acq: 20 Nov 2018 1:16

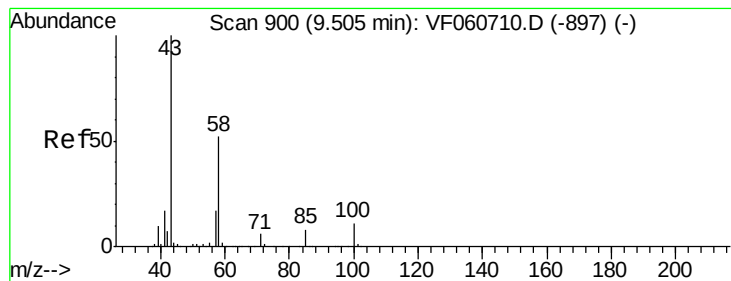
Tgt Ion: 63 Resp: 35504

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





#59

2-Hexanone

Concen: 262.198 ug/l

RT: 9.50 min Scan# 899

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 43 Resp: 227691

Ion Ratio Lower Upper

43 100

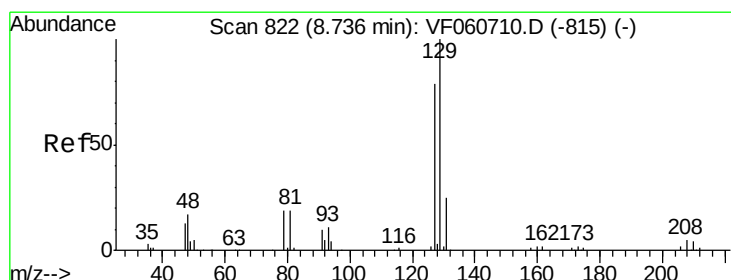
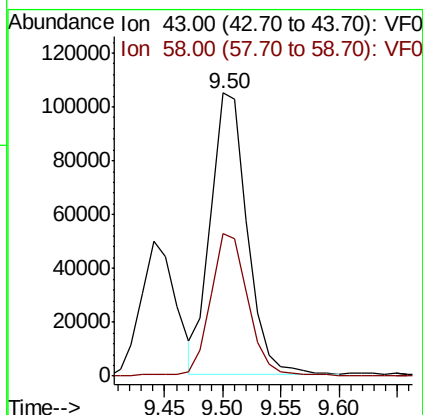
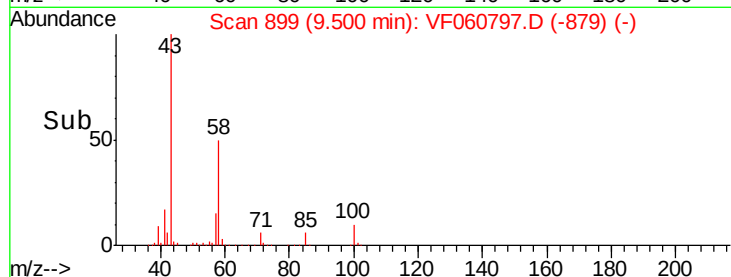
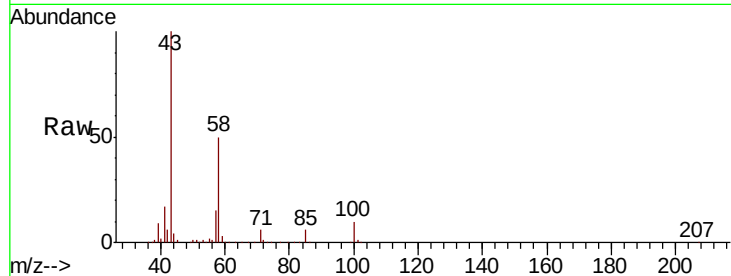
58 50.2 24.9 74.7

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#60

Dibromochloromethane

Concen: 46.915 ug/l

RT: 8.73 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF060797.D

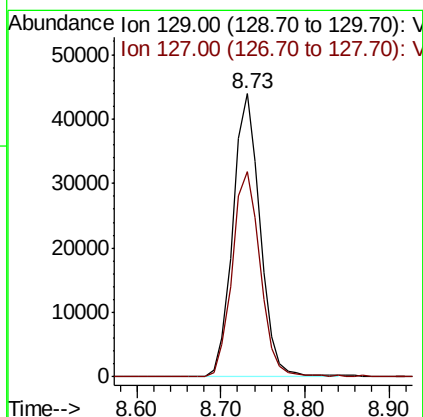
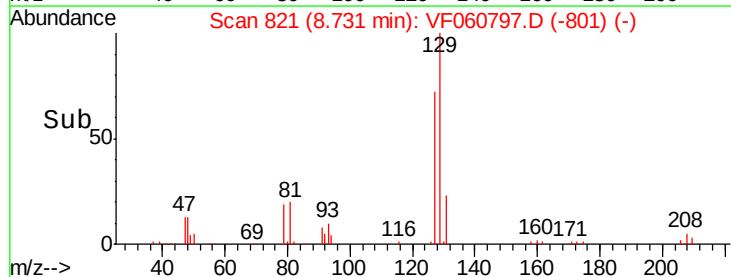
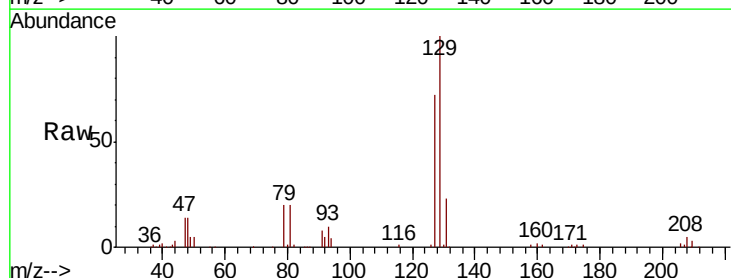
Acq: 20 Nov 2018 1:16

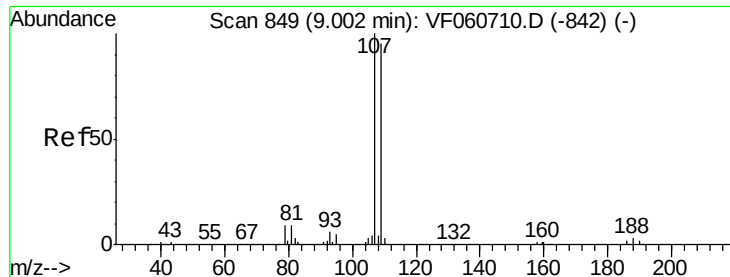
Tgt Ion: 129 Resp: 98910

Ion Ratio Lower Upper

129 100

127 72.4 39.7 119.1





#61

1,2-Dibromoethane

Concen: 45.948 ug/l

RT: 9.00 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 107 Resp: 71485

Ion Ratio Lower Upper

107 100

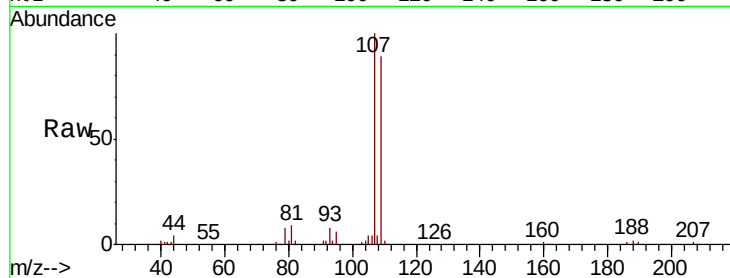
109 88.8 75.9 113.9

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

30000

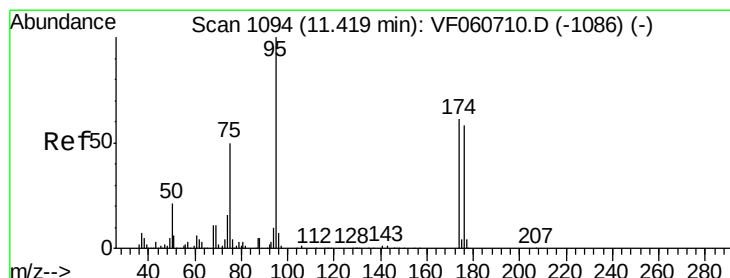
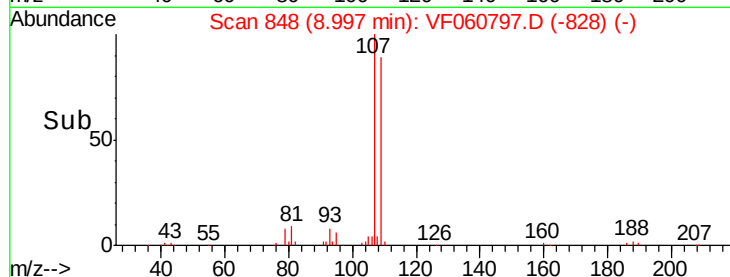
20000

10000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 39.992 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

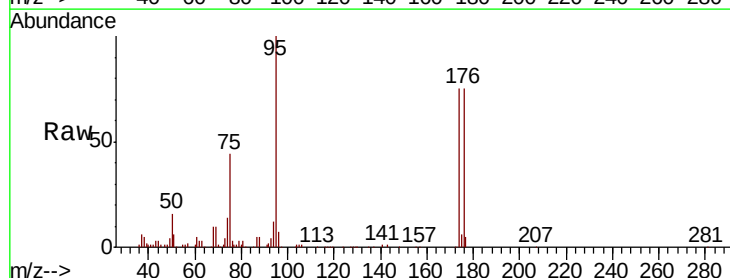
Tgt Ion: 95 Resp: 108468

Ion Ratio Lower Upper

95 100

174 75.1 0.0 121.6

176 74.9 0.0 115.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

80000

60000

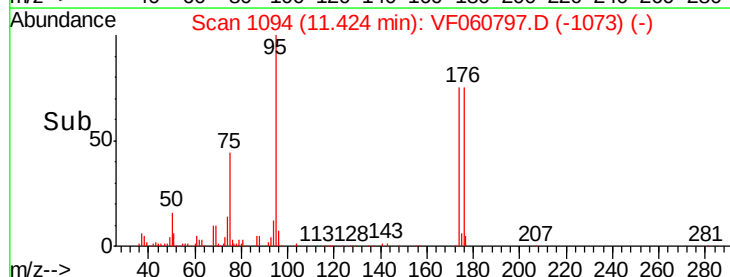
40000

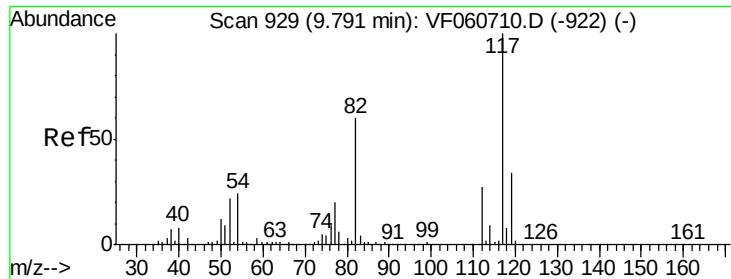
20000

0

11.30 11.40 11.50 11.60

Time-->





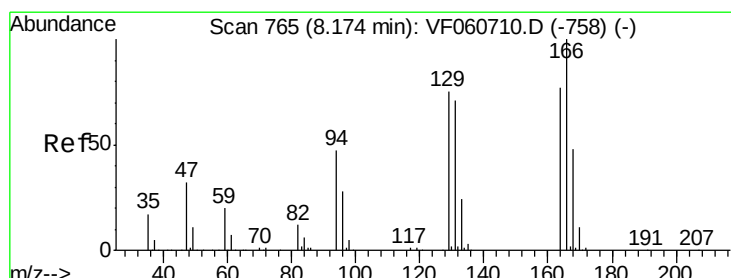
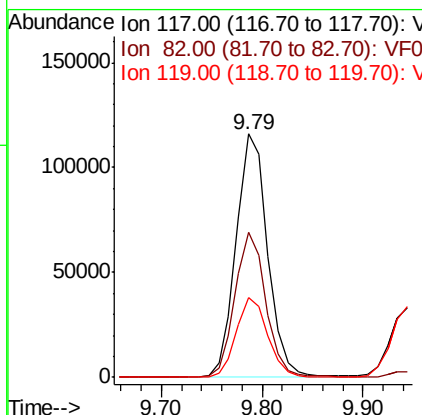
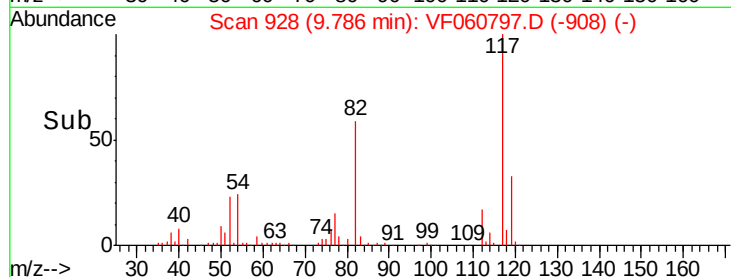
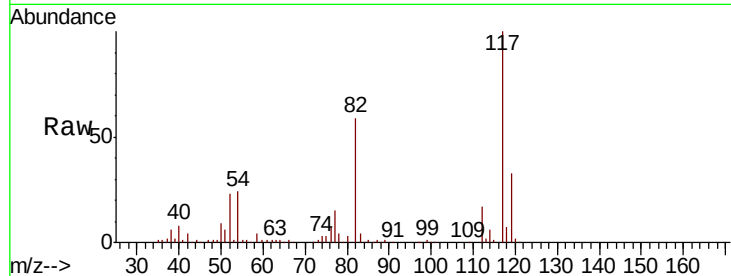
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.9	71.9
119	32.6	26.8	40.2

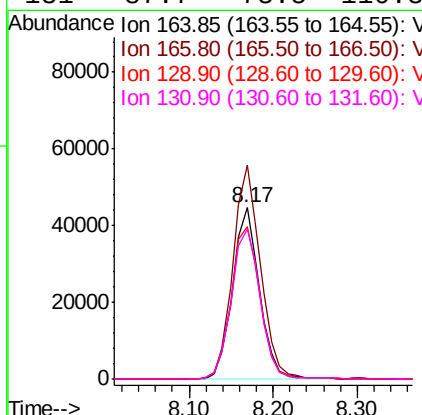
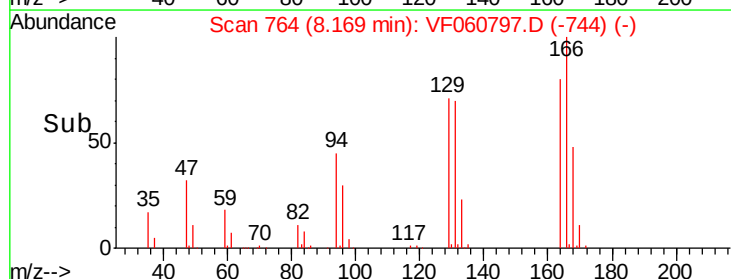
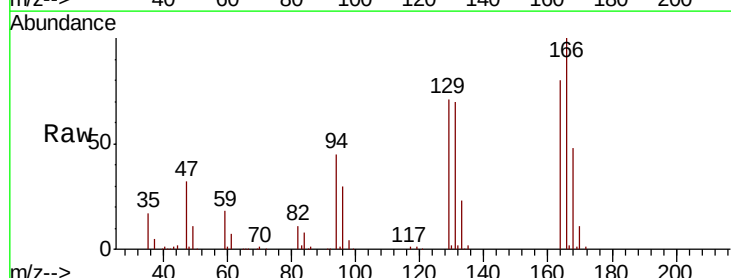
Manual Integrations
APPROVED

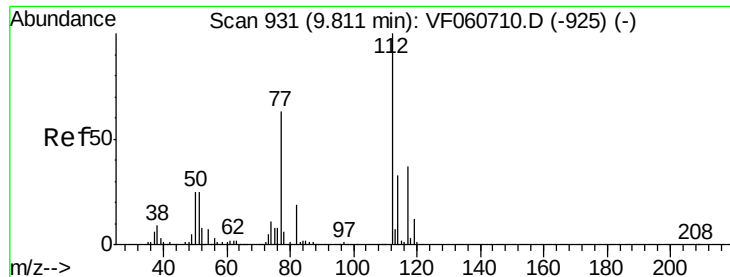
apatel
11/20/2018 1:20:49 PM



#64
Tetrachloroethene
Concen: 49.439 ug/l
RT: 8.17 min Scan# 764
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	103.5	155.3
129	88.9	77.4	116.2
131	87.7	73.5	110.3





#65

Chlorobenzene

Concen: 48.979 ug/l

RT: 9.82 min Scan# 931

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion:112 Resp: 251423

Ion Ratio Lower Upper

112 100

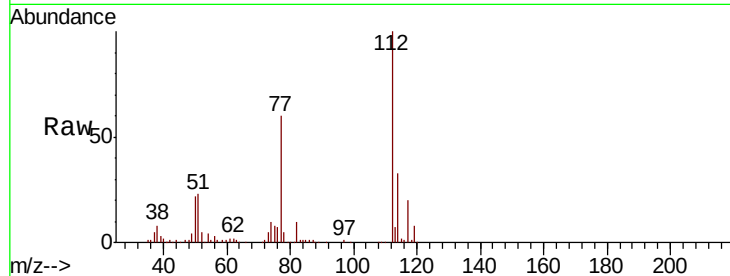
114 32.6 26.1 39.1

Manual Integrations

APPROVED

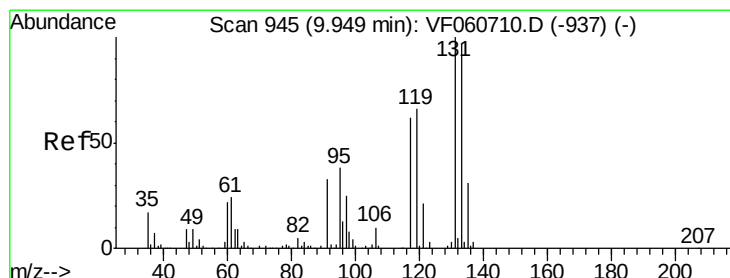
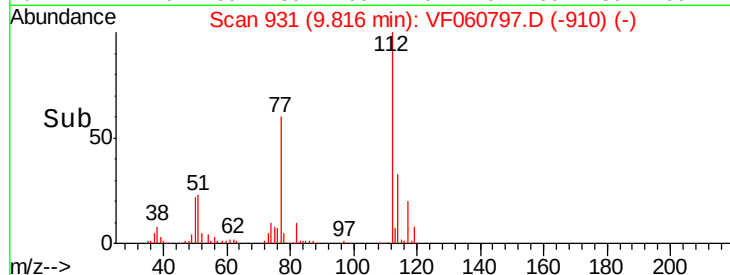
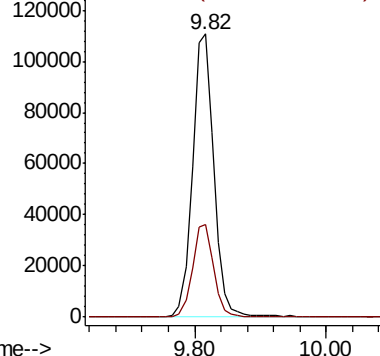
apatel

11/20/2018 1:20:49 PM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 49.905 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

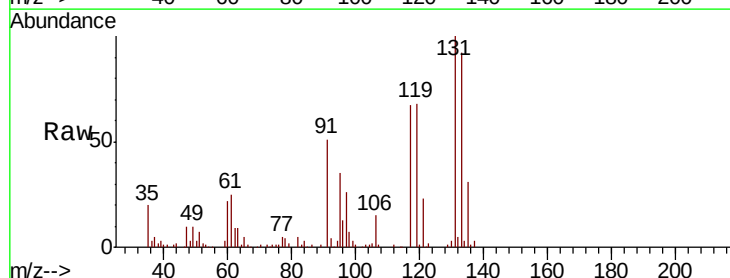
Tgt Ion:131 Resp: 111734

Ion Ratio Lower Upper

131 100

133 91.6 48.3 144.8

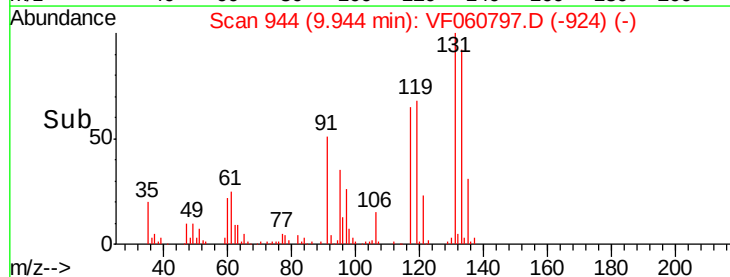
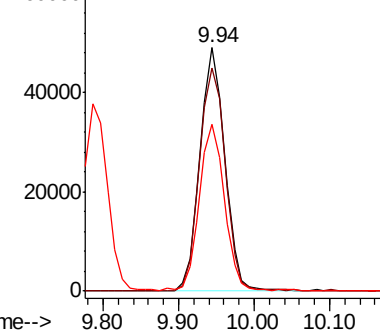
119 68.5 33.2 99.6

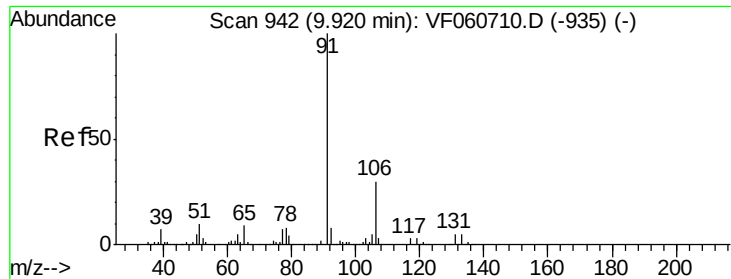


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 47.359 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 91 Resp: 458239

Ion Ratio Lower Upper

91 100

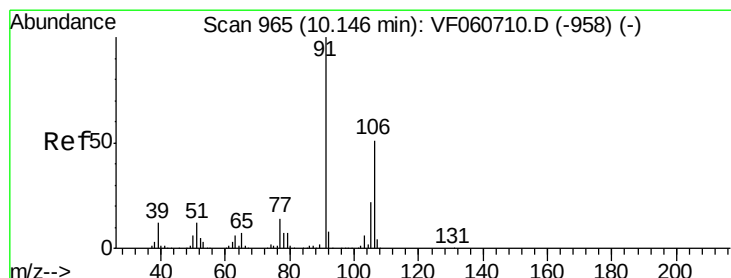
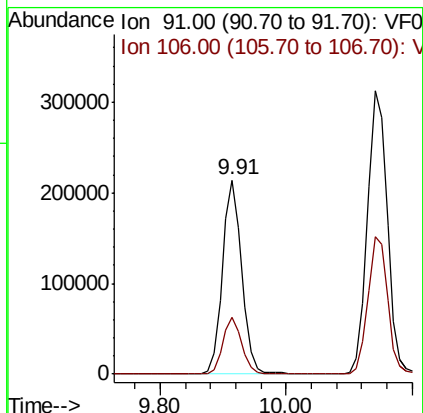
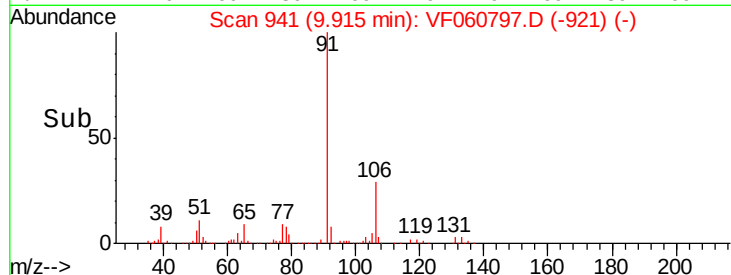
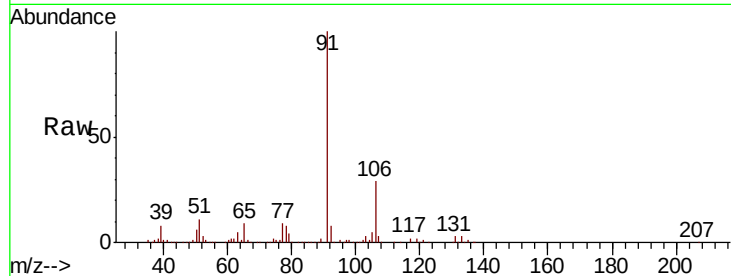
106 29.1 23.9 35.9

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#68

m/p-Xylenes

Concen: 95.379 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF060797.D

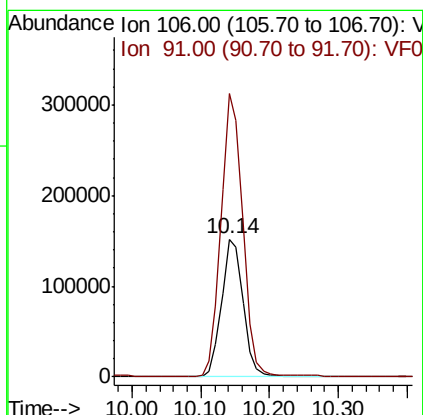
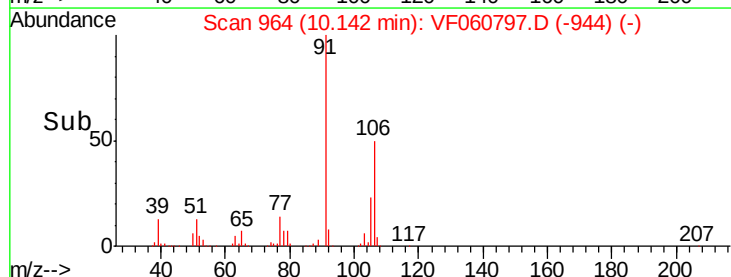
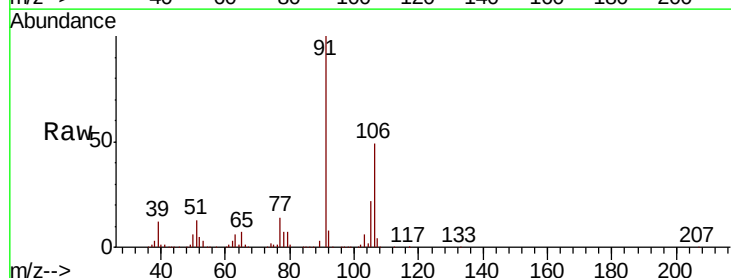
Acq: 20 Nov 2018 1:16

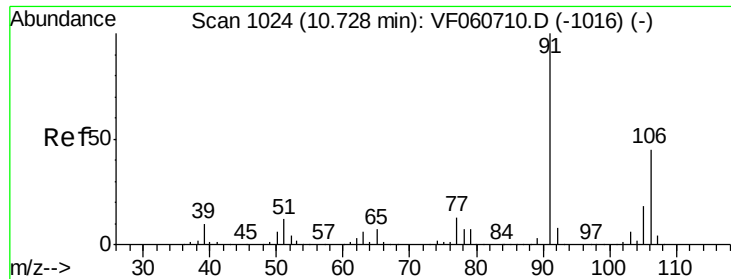
Tgt Ion: 106 Resp: 329811

Ion Ratio Lower Upper

106 100

91 205.4 158.2 237.2





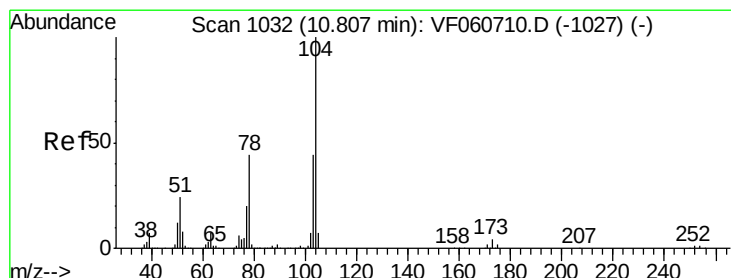
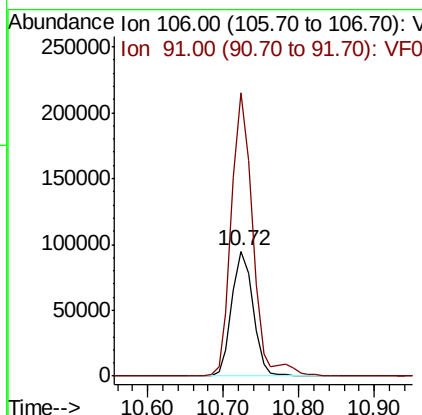
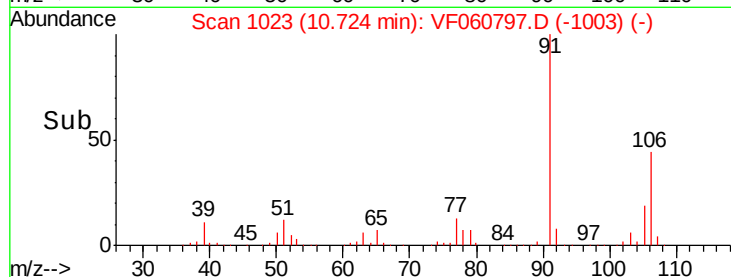
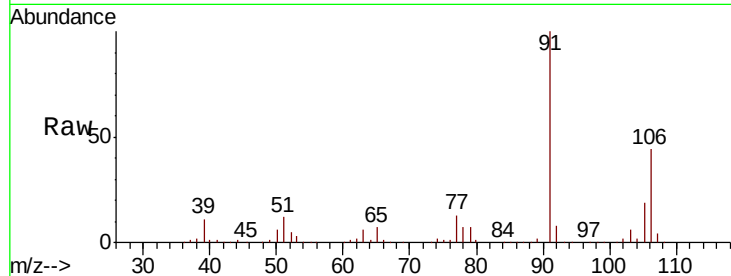
#69
o-Xylene
Concen: 47.826 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion:106 Resp: 185932
Ion Ratio Lower Upper
106 100
91 226.0 110.3 330.9

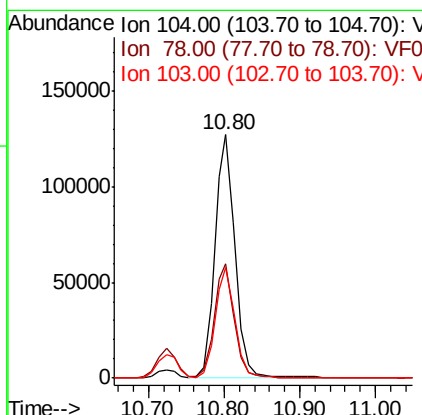
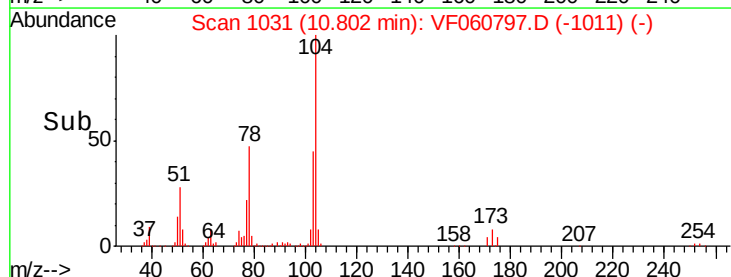
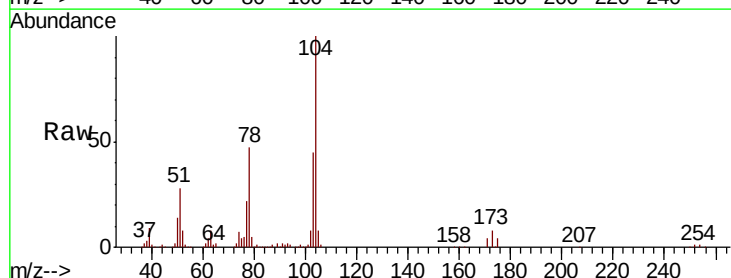
Manual Integrations
APPROVED

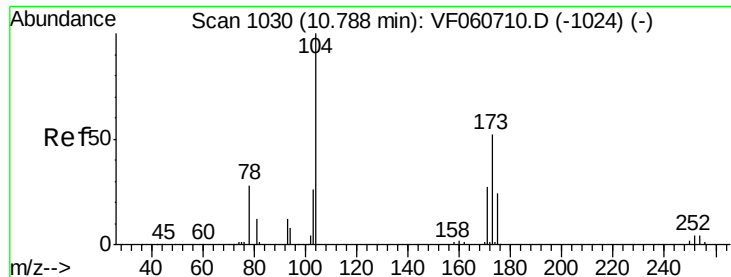
apatel
11/20/2018 1:20:49 PM



#70
Styrene
Concen: 44.713 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion:104 Resp: 235910
Ion Ratio Lower Upper
104 100
78 46.8 35.4 53.2
103 45.4 35.8 53.6





#71

Bromoform

Concen: 52.295 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

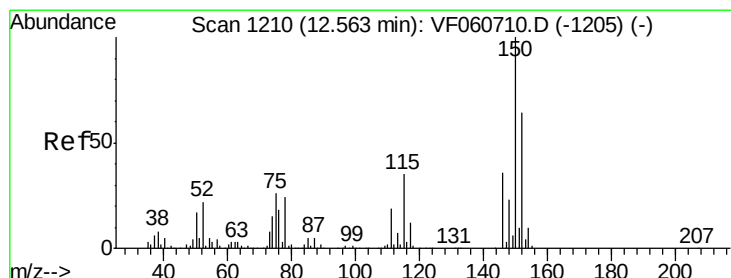
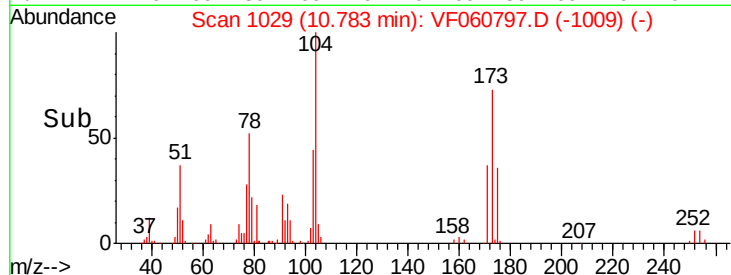
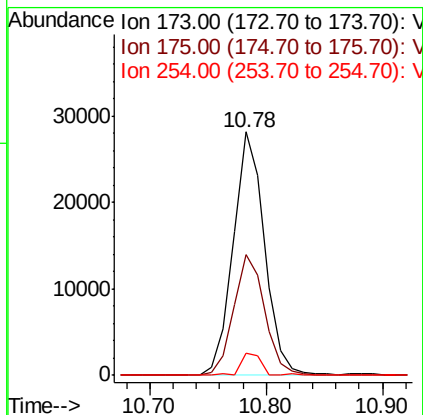
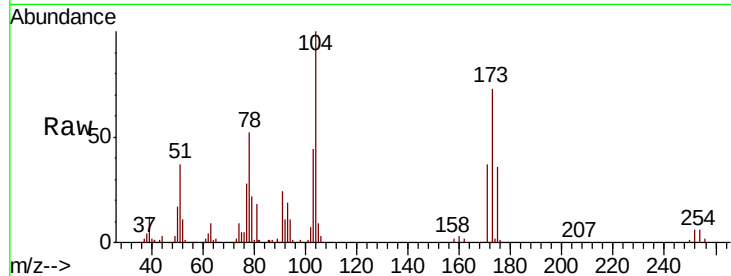
ClientSampleId :

VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	23.4	70.0
254	8.9	5.8	8.8#

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

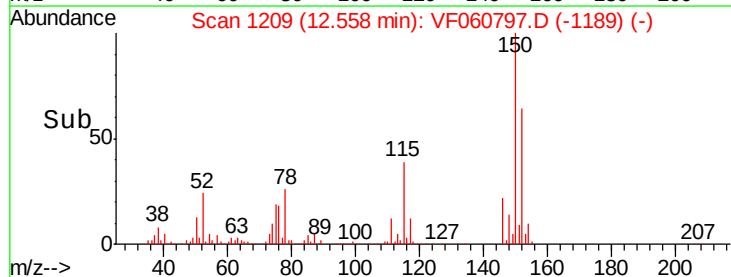
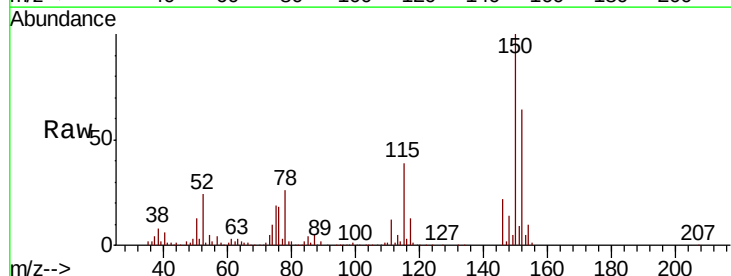
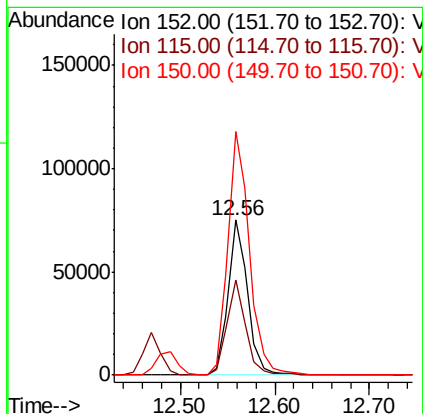
RT: 12.56 min Scan# 1209

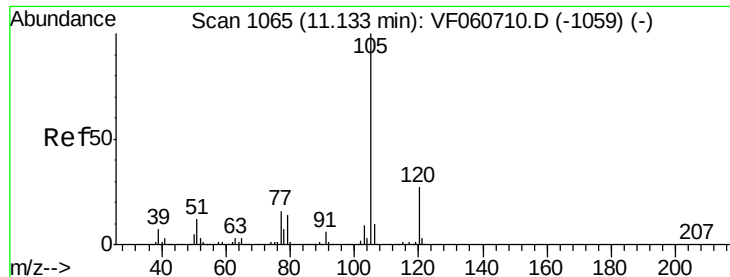
Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	27.9	83.7
150	157.1	0.0	316.4





#73

Isopropylbenzene

Concen: 58.542 ug/l

RT: 11.14 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion:105 Resp: 508296

Ion Ratio Lower Upper

105 100

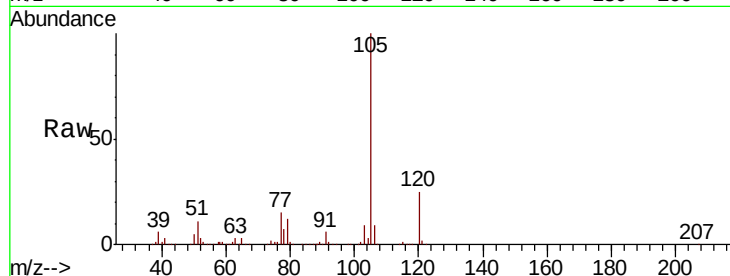
120 25.5 13.4 40.1

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.14

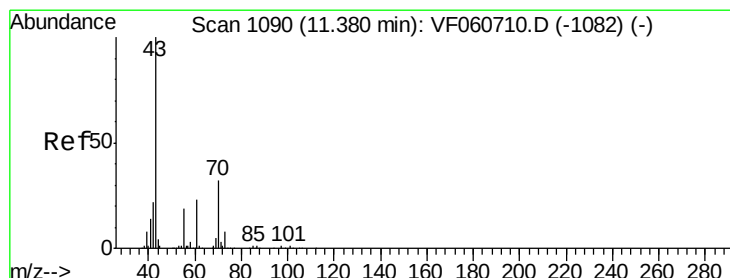
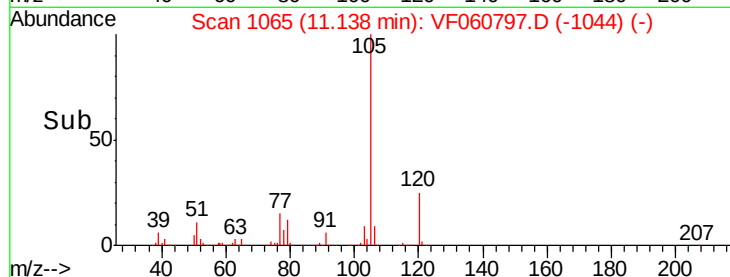
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 59.905 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion: 43 Resp: 118406

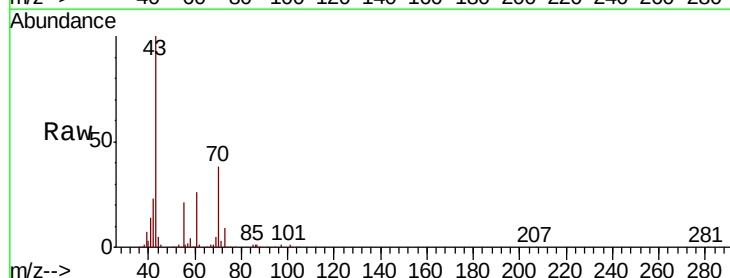
Ion Ratio Lower Upper

43 100

70 38.0 25.5 38.3

55 21.3 14.9 22.3

61 25.7 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.38

100000

80000

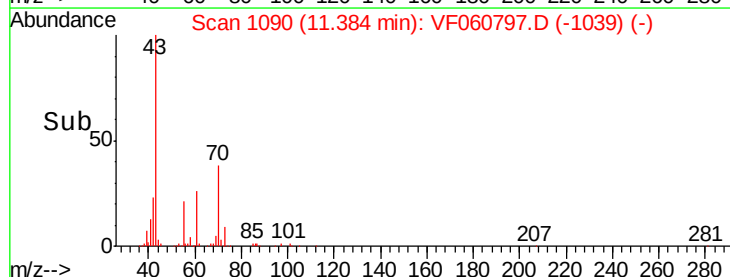
60000

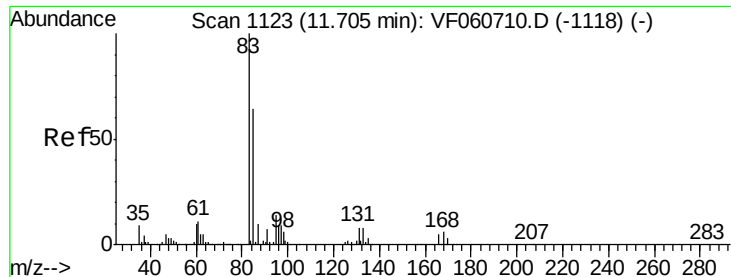
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 71.341 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

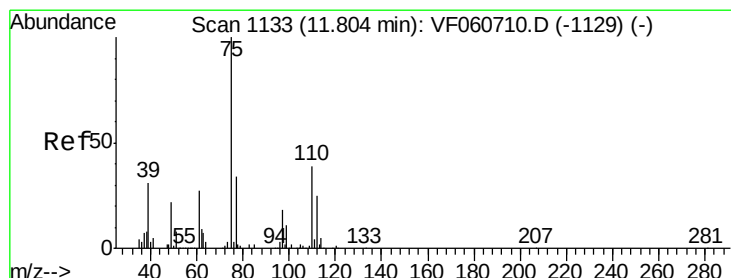
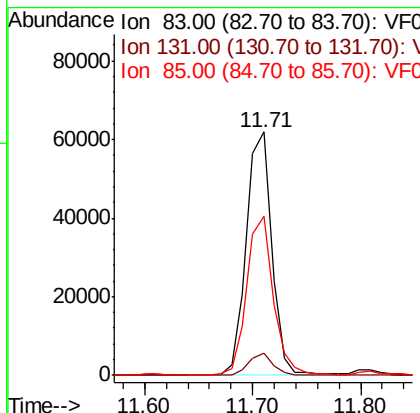
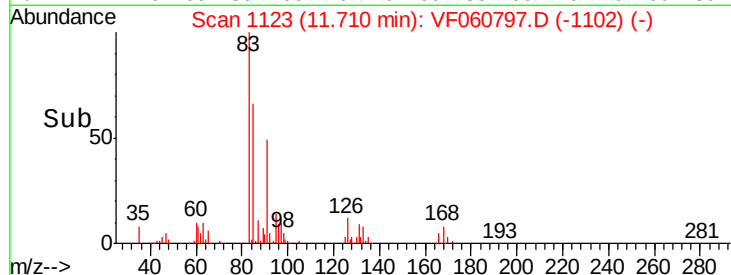
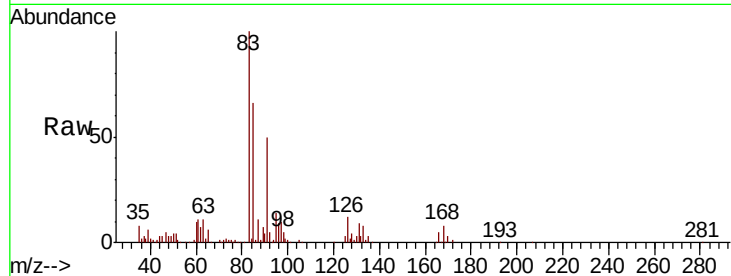
ClientSampleId :

VTW-01(7-10)MS

Tot Ion	83	Resp	102409
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.2	12.4
85	65.6	32.0	96.2

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#76

1,2,3-Trichloropropane

Concen: 67.527 ug/l

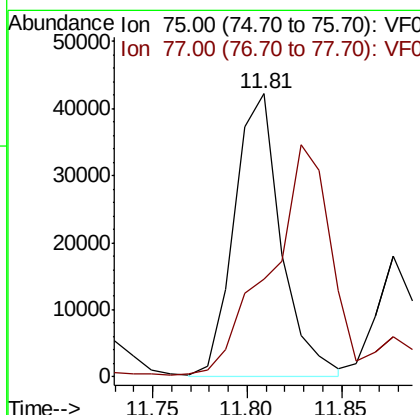
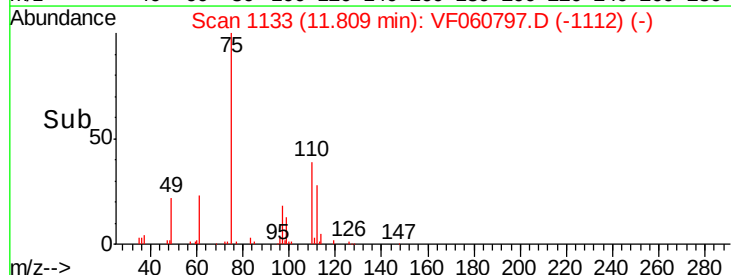
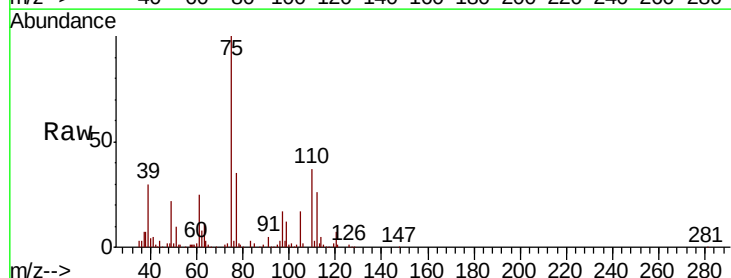
RT: 11.81 min Scan# 1133

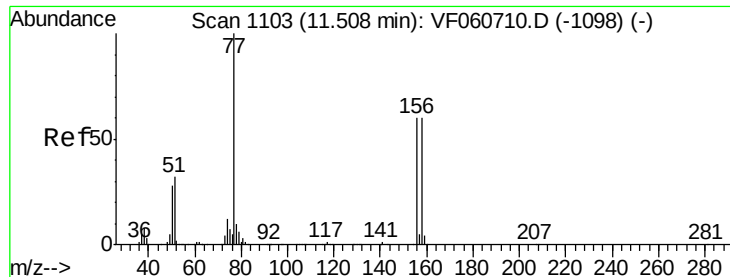
Delta R.T. 0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Tgt Ion	75	Resp	71991
Ion Ratio	Lower	Upper	
75	100		
77	34.7	17.0	51.0





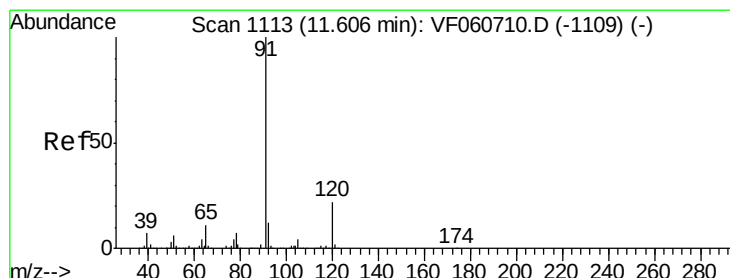
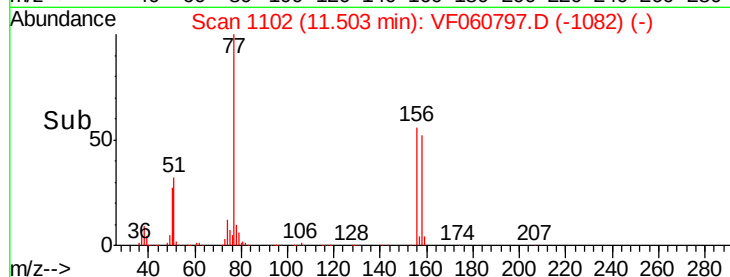
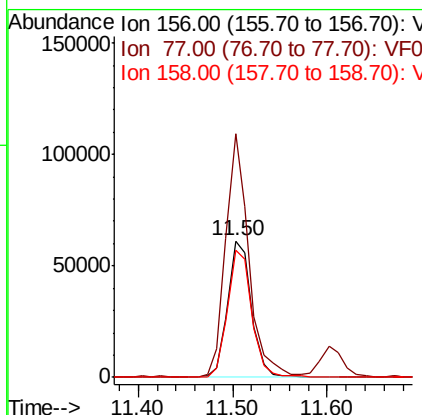
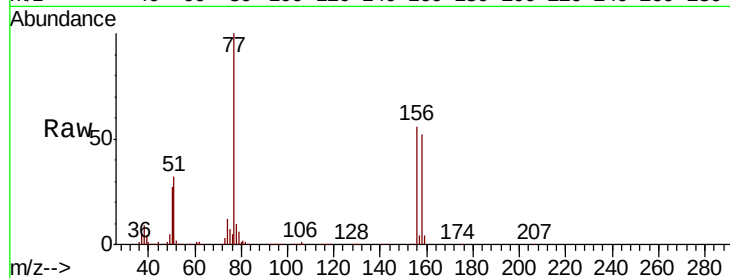
#77
Bromobenzene
Concen: 58.969 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
156	100		
77	178.8	83.0	248.9
158	92.9	49.6	149.0

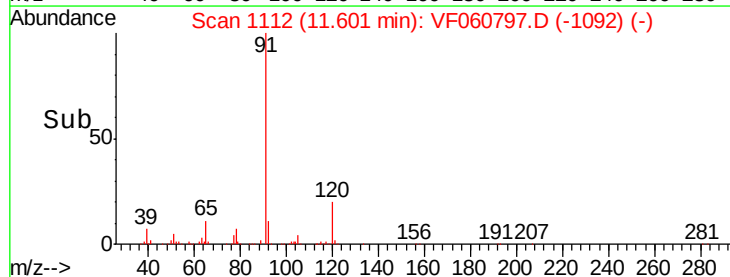
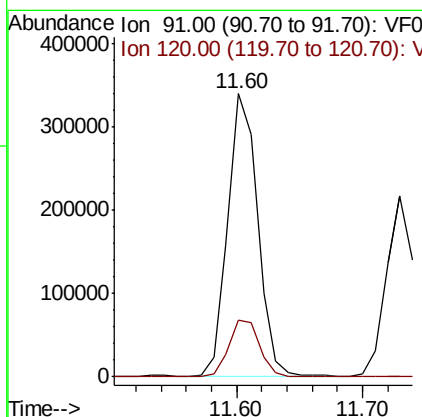
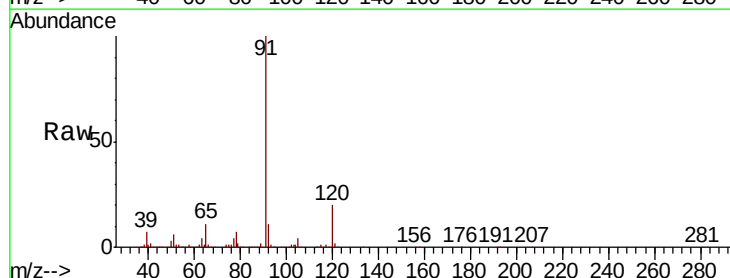
Manual Integrations
APPROVED

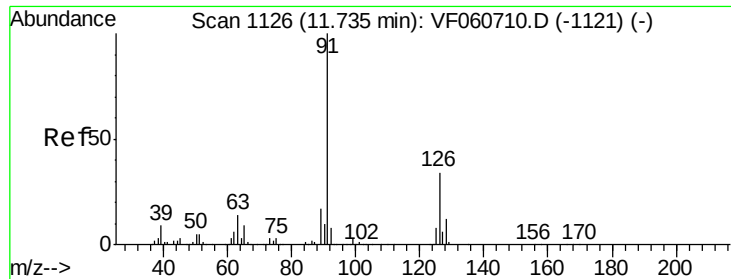
apatel
11/20/2018 1:20:49 PM



#78
n-propylbenzene
Concen: 55.081 ug/l
RT: 11.60 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.0	11.2	33.5





#79

2-Chlorotoluene

Concen: 57.144 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 91 Resp: 336320

Ion Ratio Lower Upper

91 100

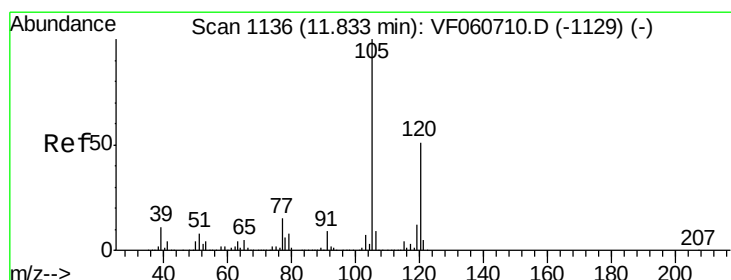
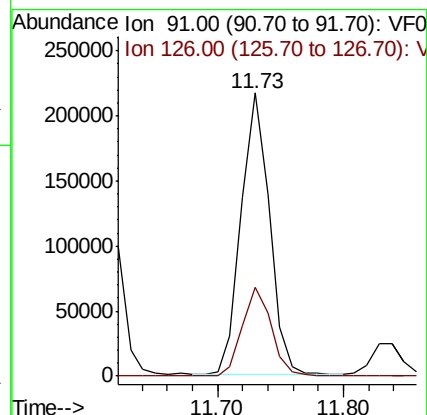
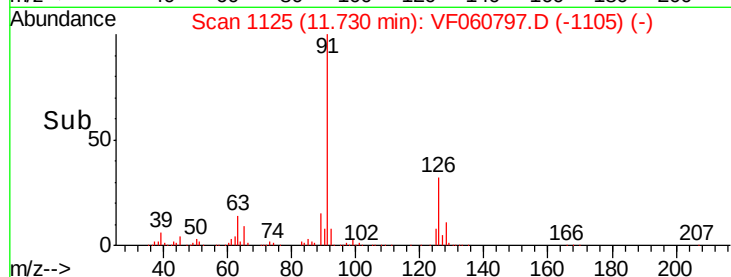
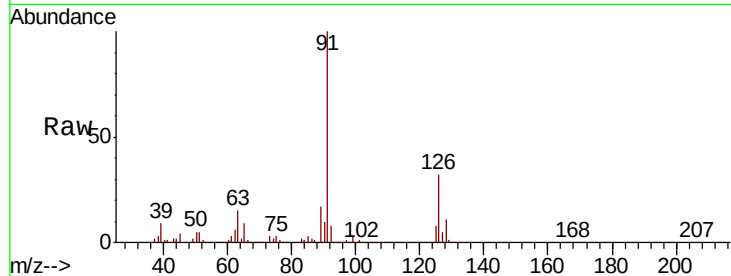
126 31.5 16.8 50.4

Manual Integrations

APPROVED

apatel

11/20/2018 1:20:49 PM



#80

1,3,5-Trimethylbenzene

Concen: 57.181 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF060797.D

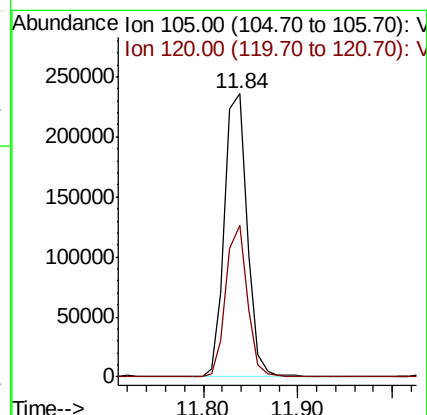
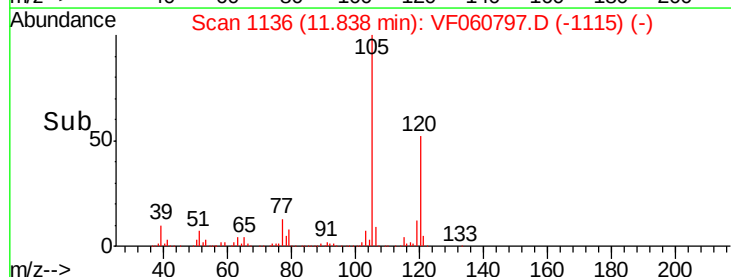
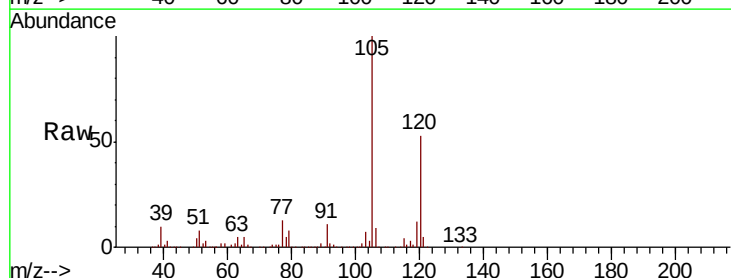
Acq: 20 Nov 2018 1:16

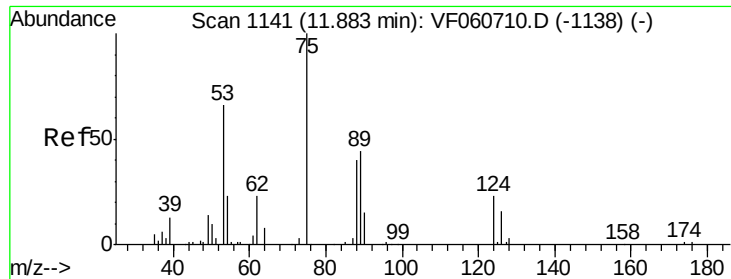
Tgt Ion: 105 Resp: 394162

Ion Ratio Lower Upper

105 100

120 53.4 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 52.927 ug/l m

RT: 11.88 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF060797.D

Acq: 20 Nov 2018 1:16

Instrument :

MSVOA_F

ClientSampleId :

VTW-01(7-10)MS

Tot Ion: 75 Resp: 27721

Ion Ratio Lower Upper

75 100

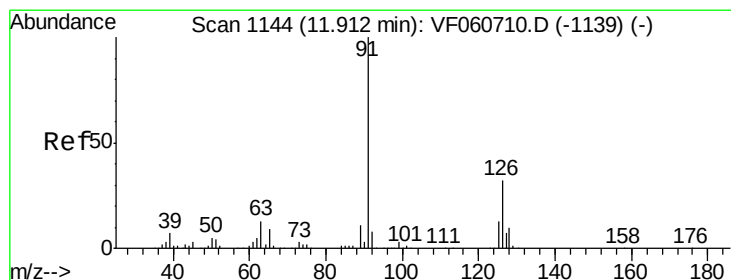
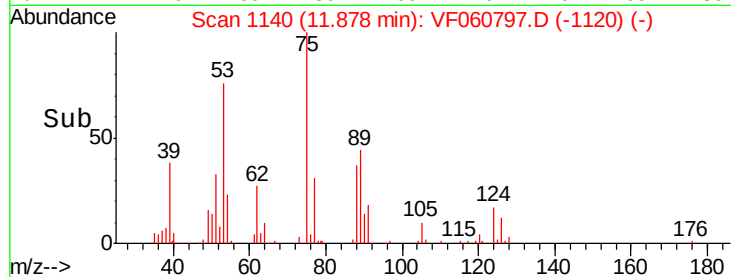
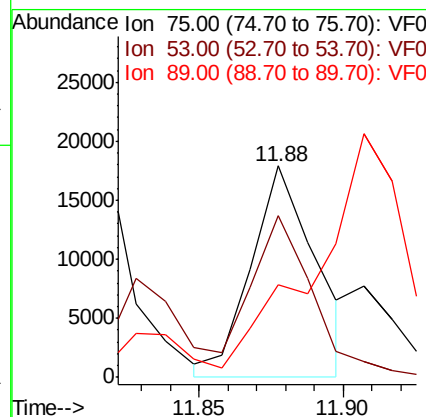
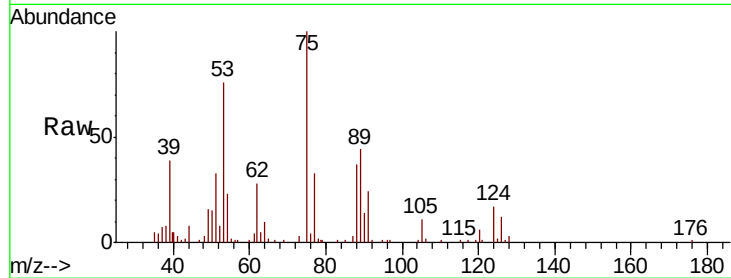
53 76.2 57.0 85.4

89 44.0 37.8 56.8

Manual Integrations
APPROVED

apatel

11/20/2018 1:20:49 PM



#82

4-Chlorotoluene

Concen: 51.511 ug/l

RT: 11.91 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF060797.D

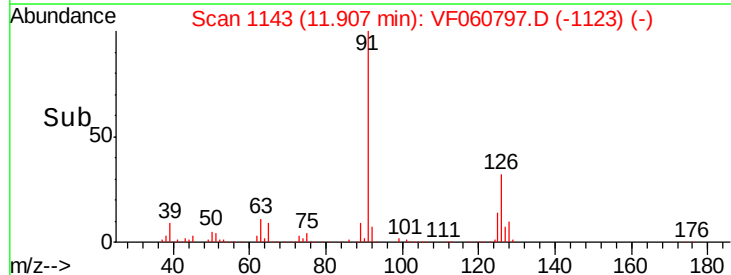
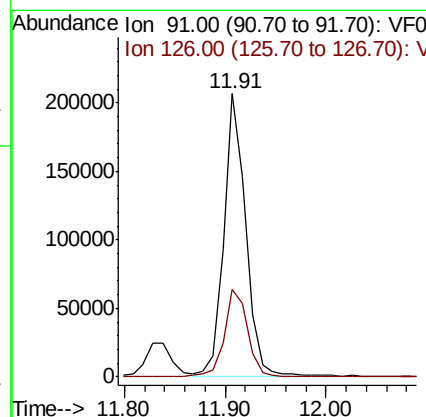
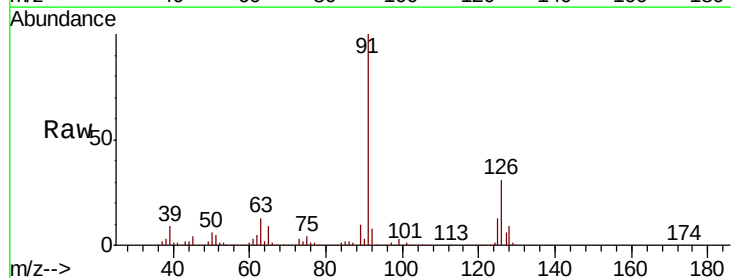
Acq: 20 Nov 2018 1:16

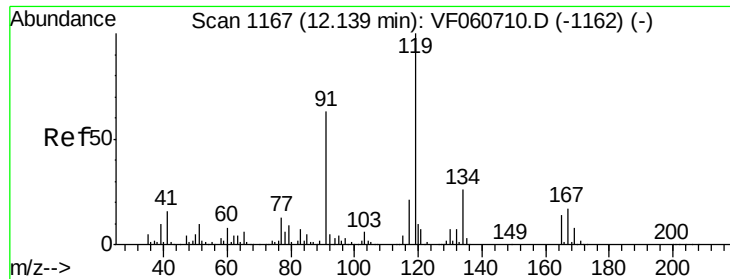
Tgt Ion: 91 Resp: 310580

Ion Ratio Lower Upper

91 100

126 30.9 16.0 47.9





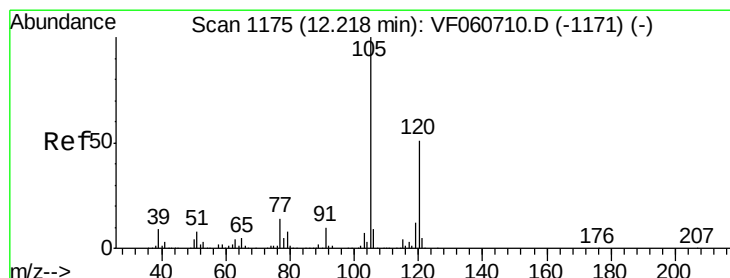
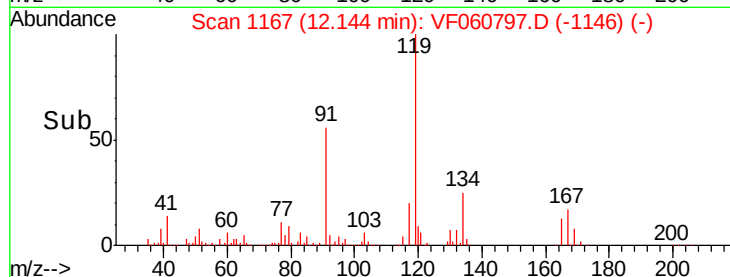
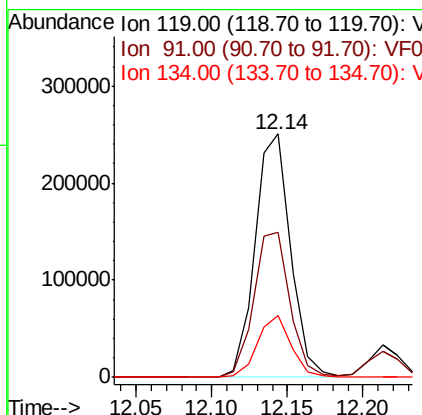
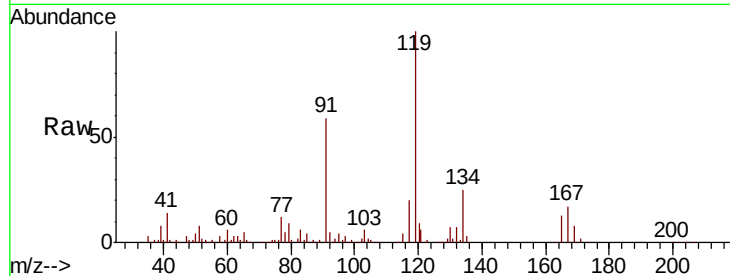
#83
 tert-Butylbenzene
 Concen: 56.206 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	411372		
91	59.4		31.4	94.3
134	25.3		12.8	38.4

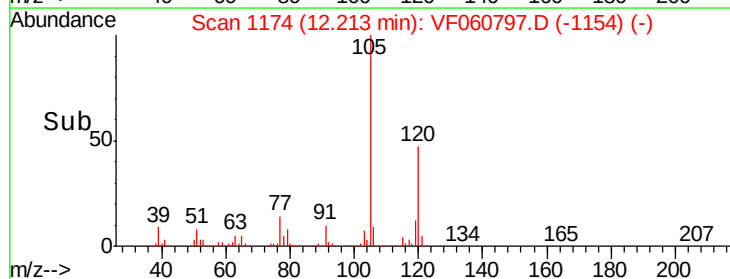
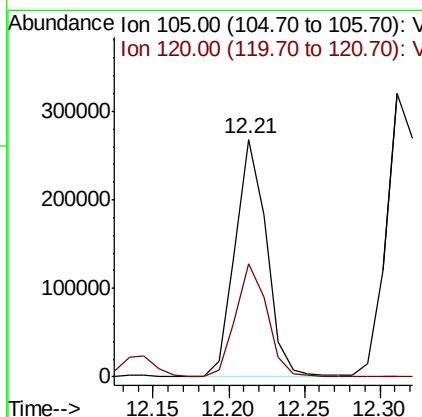
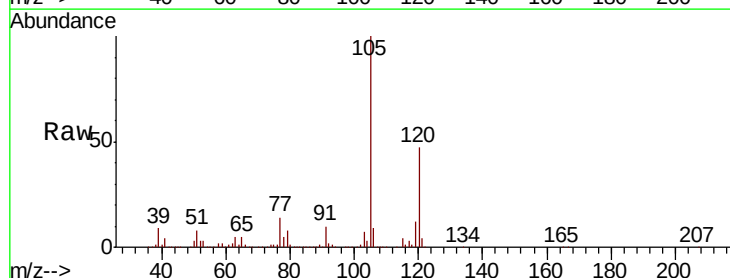
Manual Integrations
 APPROVED

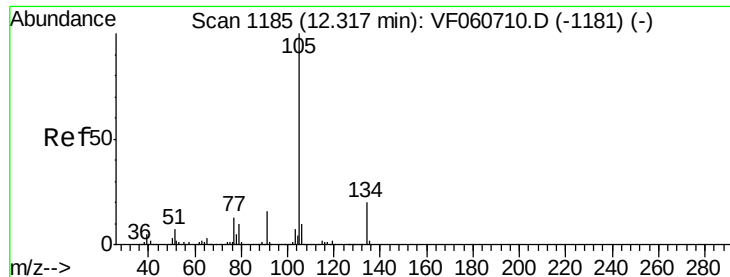
apatel
 11/20/2018 1:20:49 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 54.367 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	387588		
120	47.4		25.5	76.5





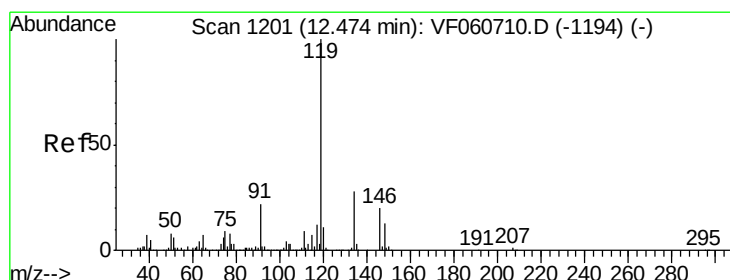
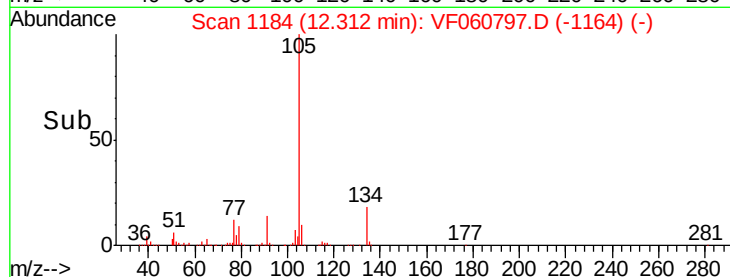
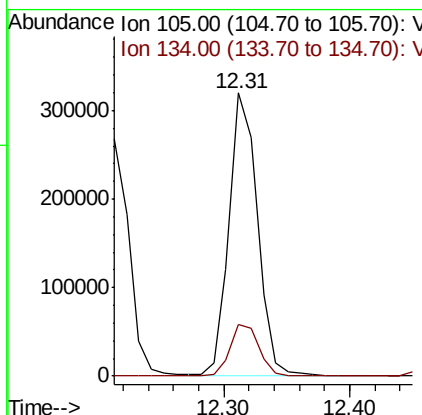
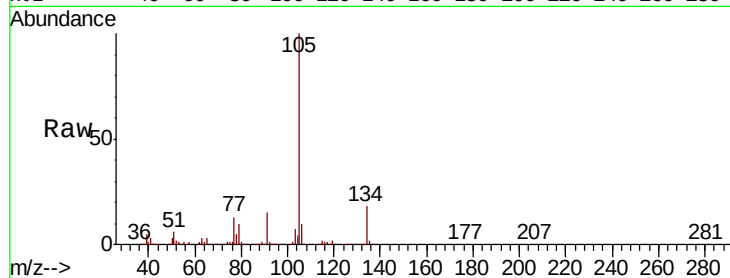
#85
 sec-Butylbenzene
 Concen: 49.863 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.5	10.1	30.3

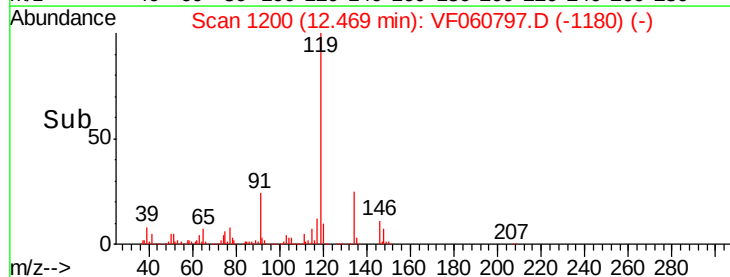
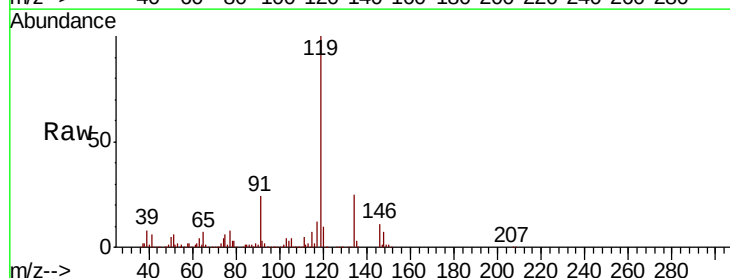
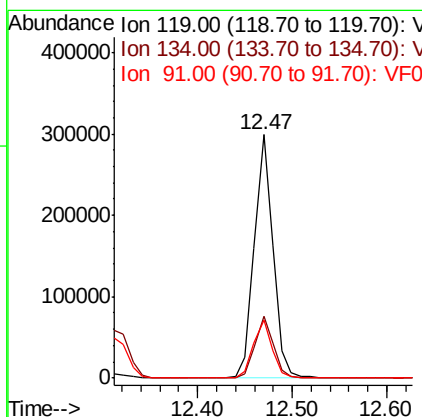
Manual Integrations
 APPROVED

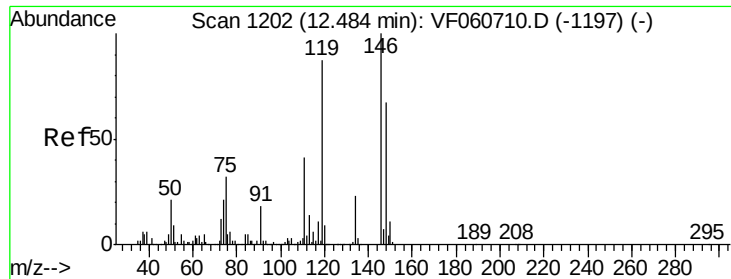
apatel
 11/20/2018 1:20:49 PM



#86
 p-Isopropyltoluene
 Concen: 49.329 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.9	41.7
91	24.1	11.3	33.9





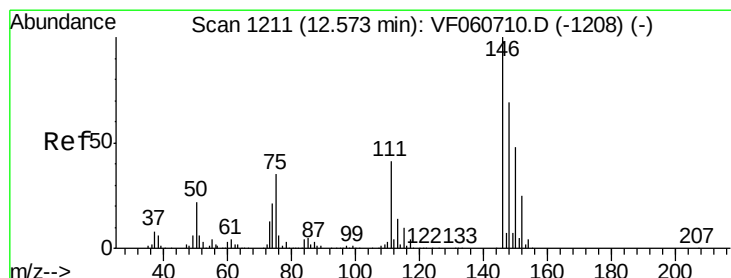
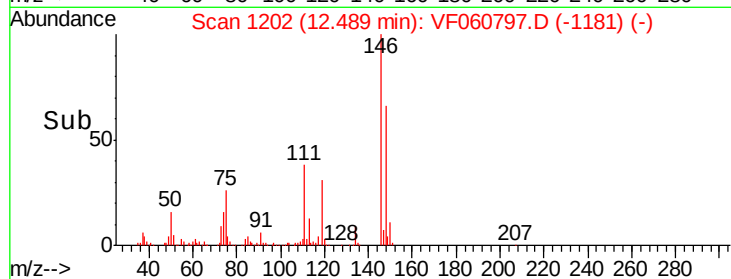
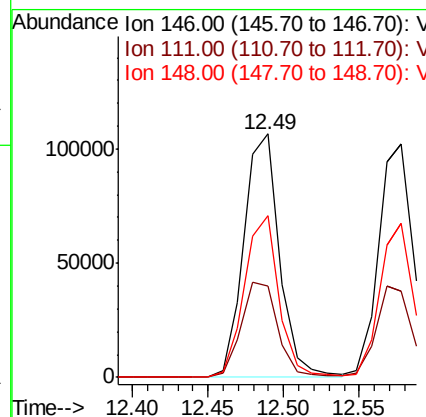
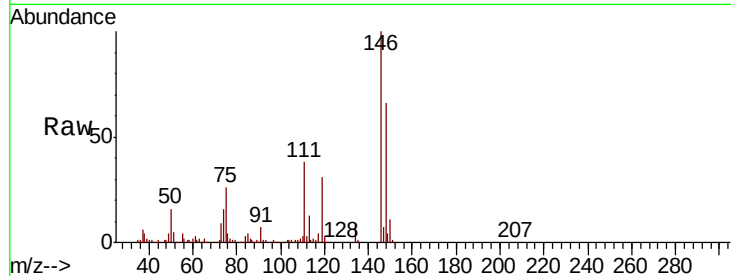
#87
 1,3-Dichlorobenzene
 Concen: 48.538 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	20.3	60.8
148	66.2	33.3	99.9

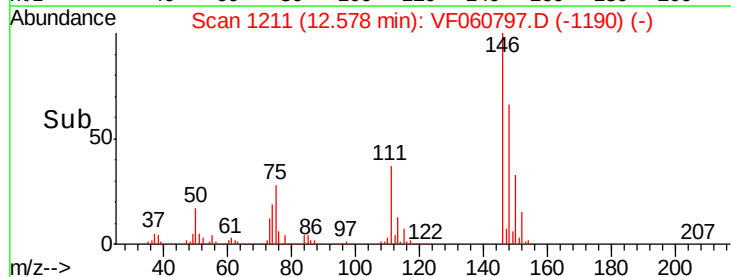
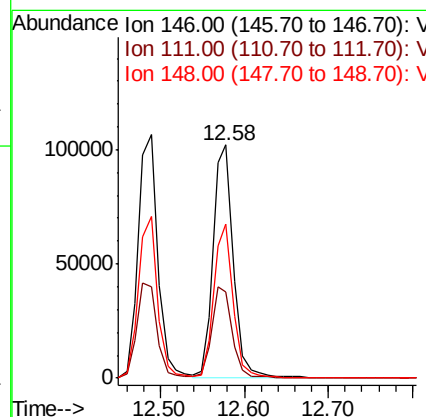
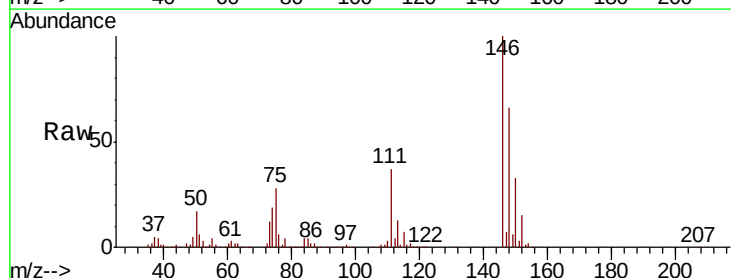
Manual Integrations
 APPROVED

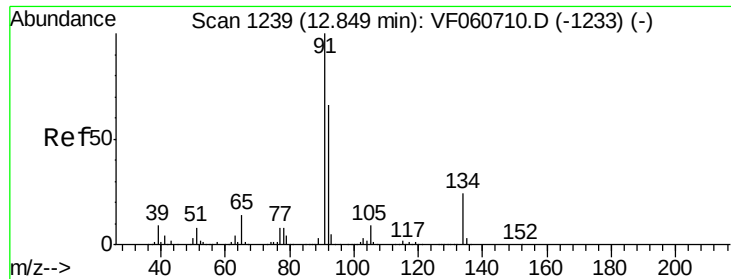
apatel
 11/20/2018 1:20:49 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.155 ug/l
 RT: 12.58 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	20.6	61.9
148	66.1	34.7	104.1





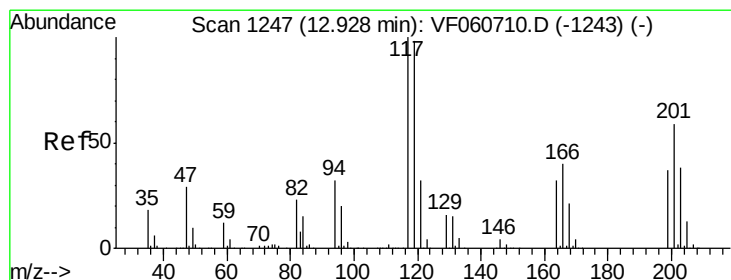
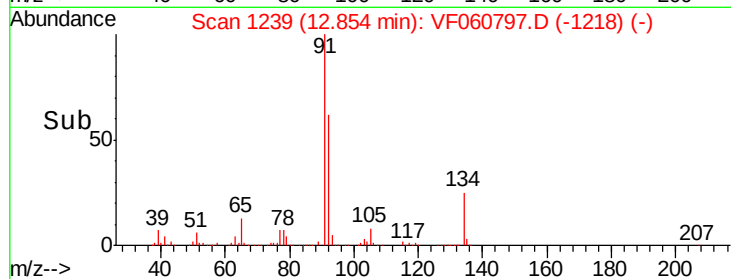
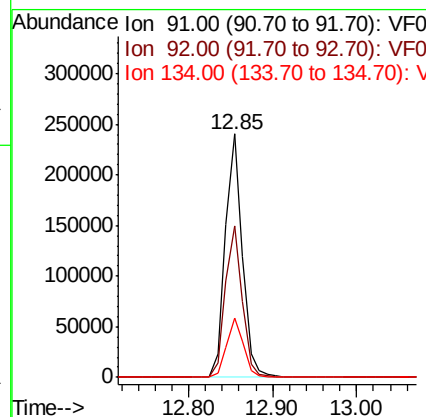
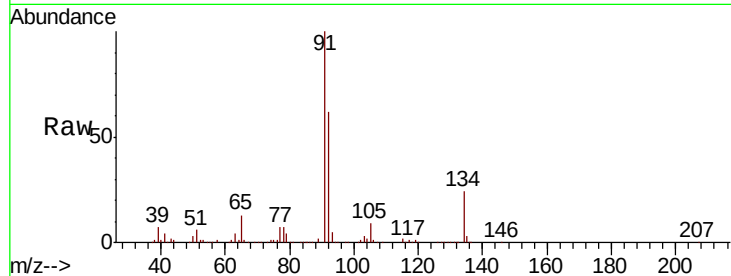
#89
n-Butylbenzene
Concen: 39.873 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.0	33.1	99.2
134	24.5	11.9	35.9

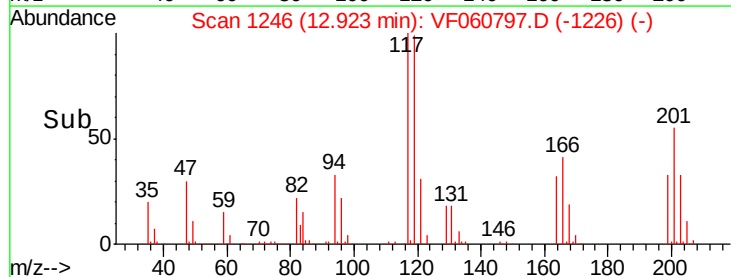
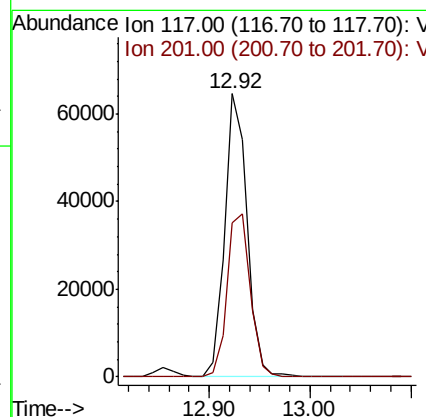
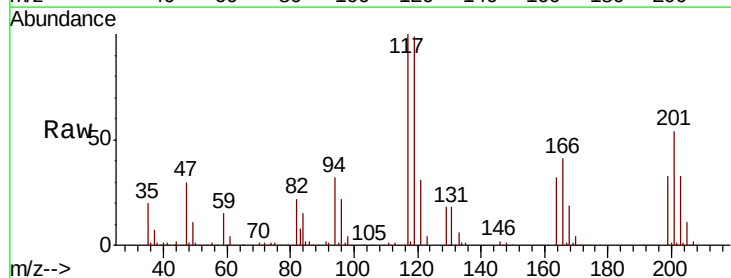
Manual Integrations
APPROVED

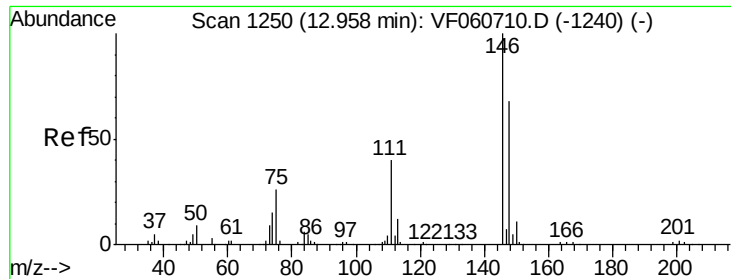
apatel
11/20/2018 1:20:49 PM



#90
Hexachloroethane
Concen: 49.454 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	55.9	29.4	88.3





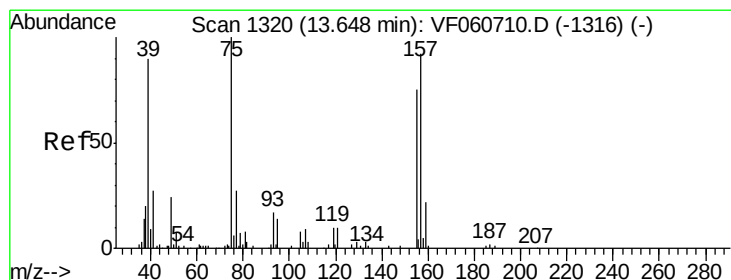
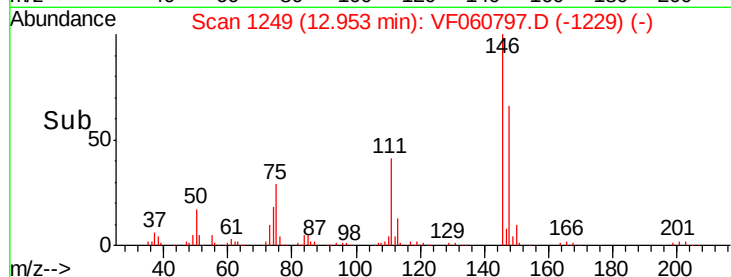
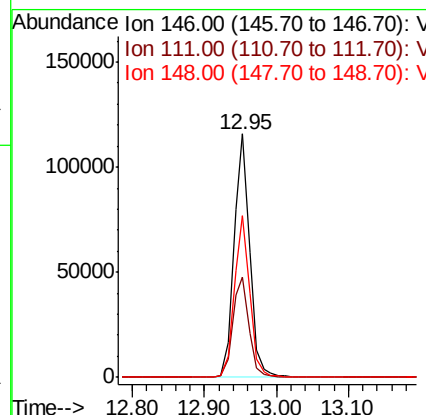
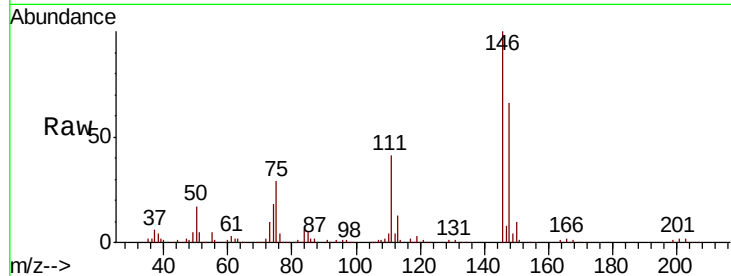
#91
 1,2-Dichlorobenzene
 Concen: 51.287 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.3	60.8
148	66.4	34.1	102.3

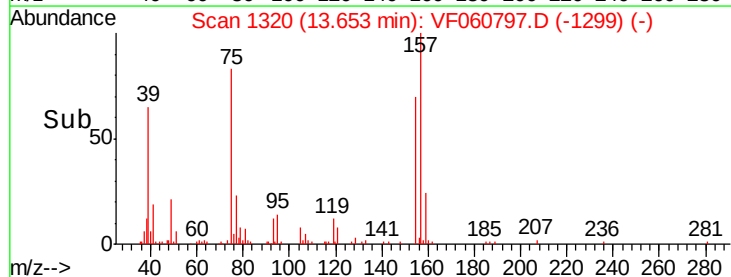
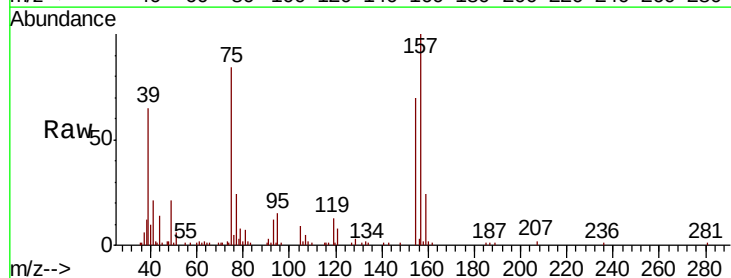
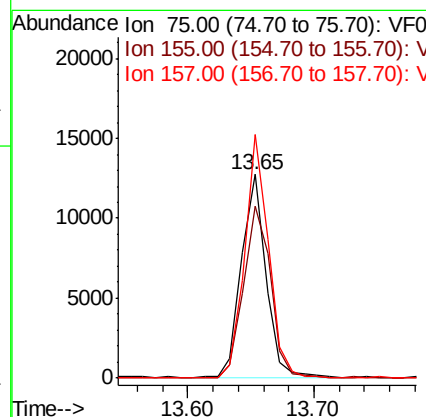
Manual Integrations
 APPROVED

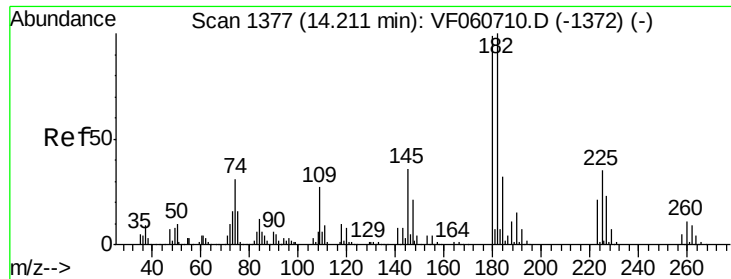
apatel
 11/20/2018 1:20:49 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 64.184 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.3	37.4	112.2
157	119.8	46.0	138.0





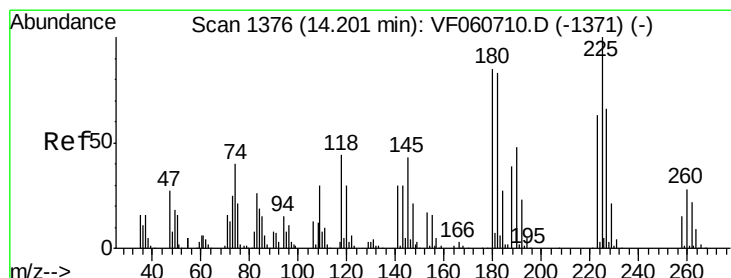
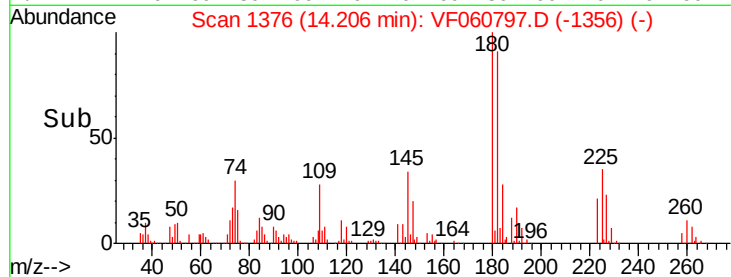
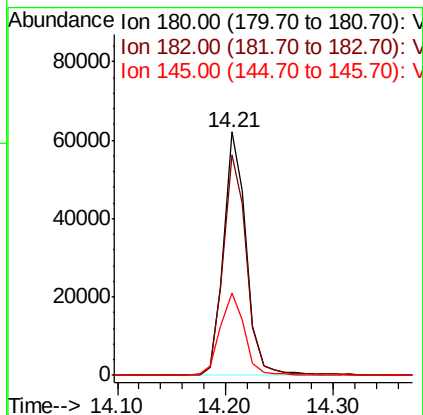
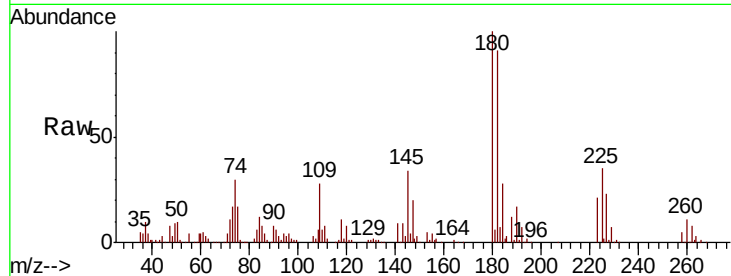
#93
 1,2,4-Trichlorobenzene
 Concen: 37.145 ug/l
 RT: 14.21 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Instrument :
 MSVOA_F
 ClientSampleId :
 VTW-01(7-10)MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	90413		
182	90.7	50.3	151.0	
145	34.0	18.3	54.9	

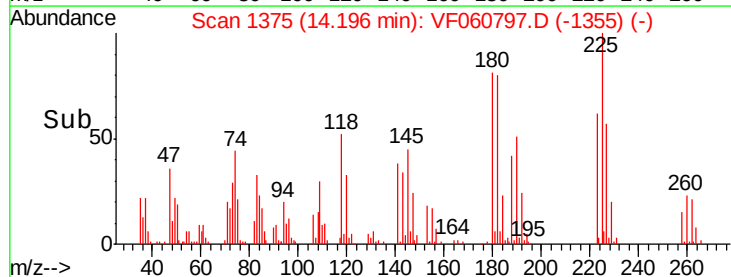
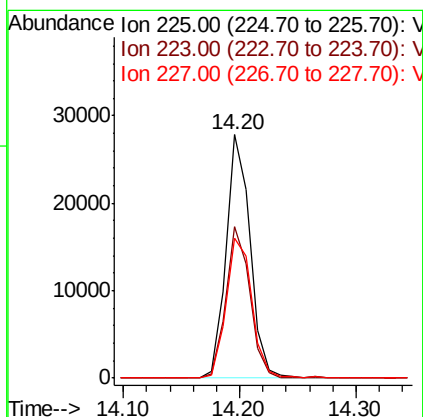
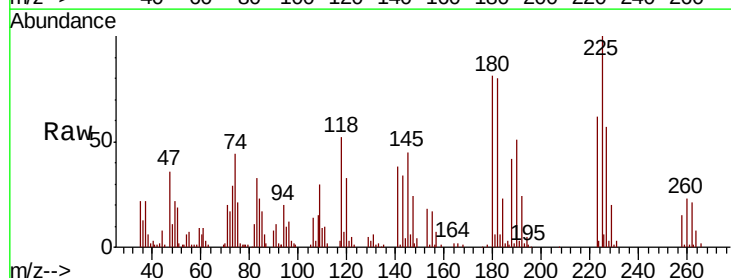
Manual Integrations
 APPROVED

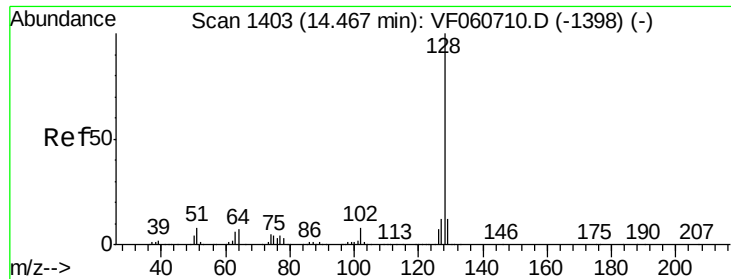
apatel
 11/20/2018 1:20:49 PM



#94
 Hexachlorobutadiene
 Concen: 24.996 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF060797.D
 Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	39758		
223	62.4	31.5	94.5	
227	57.5	33.0	99.0	





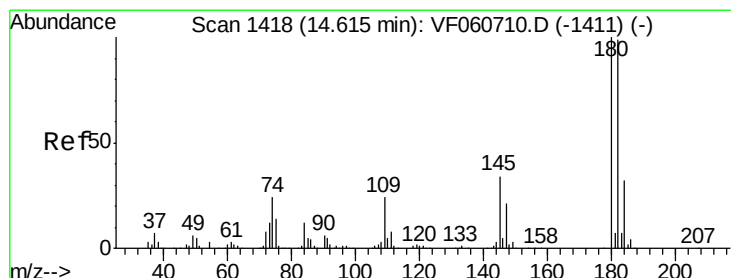
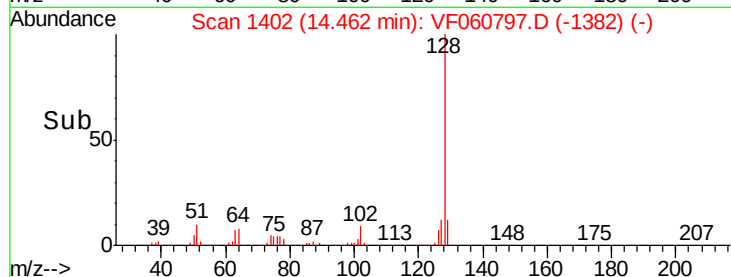
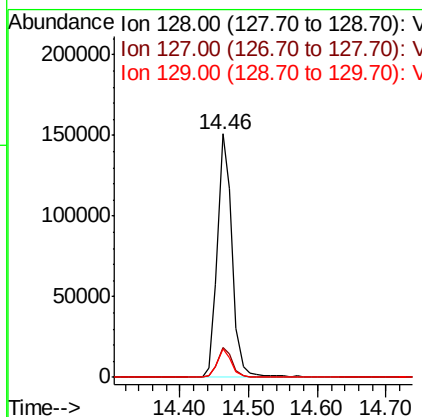
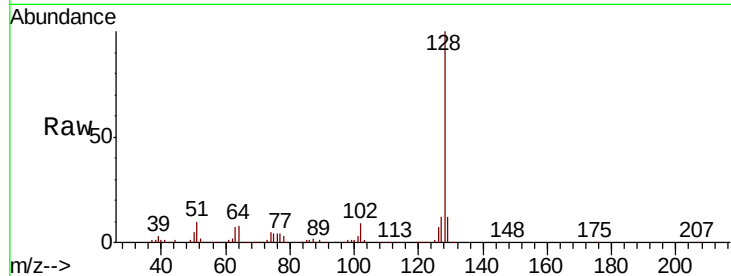
#95
Naphthalene
Concen: 50.804 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Instrument :
MSVOA_F
ClientSampleId :
VTW-01(7-10)MS

Tot Ion	Ratio	Resp	Lower	Upper
128	100	225636		
127	12.0		9.8	14.6
129	11.5		9.3	13.9

Manual Integrations
APPROVED

apatel
11/20/2018 1:20:49 PM



#96
1,2,3-Trichlorobenzene
Concen: 38.640 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF060797.D
Acq: 20 Nov 2018 1:16

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	86908		
182	94.7		49.6	149.0
145	35.2		16.9	50.7

