

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
 Data File : VD060178.D
 Acq On : 24 Oct 2018 13:29
 Operator : JC/SY
 Sample : VD1024SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Manual Integrations
 APPROVED

apatel
 10/25/2018 4:49:49 PM

Quant Time: Oct 25 03:54:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1558399	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	2241741	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.28	117	1910521	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	1114815	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.78	65	605371	51.25	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.50%	
35) Dibromofluoromethane	6.32	113	857599	50.38	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.76%	
50) Toluene-d8	9.45	98	2460416	50.69	ug/l	0.02
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.43	95	1073497	59.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	281594	19.209	ug/l	98
3) Chloromethane	1.75	50	314033	23.757	ug/l	99
4) Vinyl Chloride	1.85	62	239547	22.144	ug/l	99
5) Bromomethane	2.13	94	21323	15.698	ug/l	86
6) Chloroethane	2.23	64	50472	17.097	ug/l	97
7) Trichlorofluoromethane	2.50	101	256989	19.840	ug/l	98
8) Diethyl Ether	2.82	74	59470	22.328	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.08	101	180705	22.394	ug/l	98
10) Methyl Iodide	3.23	142	182646	21.343	ug/l	98
11) Tert butyl alcohol	3.96	59	94517	111.563	ug/l	99
12) 1,1-Dichloroethene	3.06	96	143273	22.537	ug/l	93
13) Acrolein	2.97	56	41941	80.307	ug/l	100
14) Allyl chloride	3.52	41	293533	22.232	ug/l	95
15) Acrylonitrile	4.07	53	382055	108.951	ug/l	96
16) Acetone	3.15	43	283909	132.452	ug/l	99
17) Carbon Disulfide	3.30	76	447967	20.955	ug/l	99
18) Methyl Acetate	3.55	43	101227	21.972	ug/l	98
19) Methyl tert-butyl Ether	4.12	73	607326	21.729	ug/l	99
20) Methylene Chloride	3.71	84	481254	26.503	ug/l	98
21) trans-1,2-Dichloroethene	4.09	96	339238	20.662	ug/l	97
22) Diisopropyl ether	4.85	45	1195648	20.277	ug/l	94
23) Vinyl Acetate	4.80	43	3586549	108.211	ug/l	99
24) 1,1-Dichloroethane	4.75	63	571390	21.372	ug/l	100
25) 2-Butanone	5.62	43	615543	114.948	ug/l	98
26) 2,2-Dichloropropane	5.58	77	451173	22.261	ug/l	100
27) cis-1,2-Dichloroethene	5.59	96	367617	21.133	ug/l	96
28) Bromochloromethane	5.92	49	265452	20.432	ug/l	95
29) Tetrahydrofuran	5.95	42	327351	105.243	ug/l	100
30) Chloroform	6.10	83	586696	21.694	ug/l	96
31) Cyclohexane	6.36	56	529860	20.704	ug/l	98
32) 1,1,1-Trichloroethane	6.29	97	491902	22.201	ug/l	97
36) 1,1-Dichloropropene	6.51	75	431234	20.131	ug/l	98
37) Ethyl Acetate	5.69	43	311135	21.882	ug/l	96
38) Carbon Tetrachloride	6.49	117	407656	20.967	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
 Data File : VD060178.D
 Acq On : 24 Oct 2018 13:29
 Operator : JC/SY
 Sample : VD1024SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1024SBS01

Manual Integrations
 APPROVED

apatel
 10/25/2018 4:49:49 PM

Quant Time: Oct 25 03:54:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	506286	20.801	ug/l	99
40) Benzene	6.79	78	1115399	19.903	ug/l	99
41) Methacrylonitrile	5.91	41	92703m	11.535	ug/l	
42) 1,2-Dichloroethane	6.89	62	328594	20.451	ug/l	99
43) Isopropyl Acetate	8.34	43	394153	21.070	ug/l	100
44) Trichloroethene	7.73	130	349213	20.129	ug/l	99
45) 1,2-Dichloropropane	8.10	63	301139	20.521	ug/l	95
46) Dibromomethane	8.21	93	195644	20.593	ug/l	97
47) Bromodichloromethane	8.49	83	434764	21.477	ug/l	100
48) Methyl methacrylate	8.24	41	219878	20.635	ug/l	98
49) 1,4-Dioxane	8.22	88	47203	450.229	ug/l	90
51) 4-Methyl-2-Pentanone	9.34	43	1255443	106.404	ug/l	98
52) Toluene	9.54	92	763928	21.165	ug/l	99
53) t-1,3-Dichloropropene	9.92	75	389176	21.247	ug/l	98
54) cis-1,3-Dichloropropene	9.10	75	472058	20.871	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	247702	20.993	ug/l	98
56) Ethyl methacrylate	10.03	69	270538	20.771	ug/l	97
57) 1,3-Dichloropropane	10.38	76	380690	21.154	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	773807	106.985	ug/l	99
59) 2-Hexanone	10.49	43	1021328	120.379	ug/l	100
60) Dibromochloromethane	10.64	129	320070	22.109	ug/l	97
61) 1,2-Dibromoethane	10.75	107	269949	21.532	ug/l	100
64) Tetrachloroethene	10.25	164	327770	19.588	ug/l	98
65) Chlorobenzene	11.31	112	883688	21.380	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.42	131	307659	22.313	ug/l	98
67) Ethyl Benzene	11.42	91	1516870	22.652	ug/l	98
68) m/p-Xylenes	11.56	106	1146432	45.820	ug/l	98
69) o-Xylene	11.93	106	555770	22.457	ug/l	96
70) Styrene	11.95	104	942160	22.765	ug/l	98
71) Bromoform	12.11	173	251226	22.501	ug/l	98
73) Isopropylbenzene	12.28	105	1587148	21.580	ug/l	100
74) N-amyl acetate	12.13	43	571239	21.205	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.56	83	339494	21.144	ug/l	97
76) 1,2,3-Trichloropropane	12.59	75	347919	21.671	ug/l	98
77) Bromobenzene	12.54	156	430467	20.142	ug/l	82
78) n-propylbenzene	12.63	91	2075819	22.731	ug/l	99
79) 2-Chlorotoluene	12.70	91	1152953	22.747	ug/l	98
80) 1,3,5-Trimethylbenzene	12.79	105	1274617	22.392	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	98555	21.847	ug/l	95
82) 4-Chlorotoluene	12.81	91	1280351	22.334	ug/l	98
83) tert-Butylbenzene	13.05	119	1447323	22.157	ug/l	100
84) 1,2,4-Trimethylbenzene	13.10	105	1318354	21.976	ug/l	99
85) sec-Butylbenzene	13.22	105	1748091	22.634	ug/l	99
86) p-Isopropyltoluene	13.34	119	1376981	21.737	ug/l	100
87) 1,3-Dichlorobenzene	13.31	146	806877	21.669	ug/l	99
88) 1,4-Dichlorobenzene	13.39	146	778082	20.804	ug/l	98
89) n-Butylbenzene	13.65	91	1391007	22.504	ug/l	100
90) Hexachloroethane	13.85	117	317775	21.675	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	662379	21.156	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.23	75	40062	18.687	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
Data File : VD060178.D
Acq On : 24 Oct 2018 13:29
Operator : JC/SY
Sample : VD1024SBSD01
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM

Quant Time: Oct 25 03:54:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	517541	19.475	µg/l	98
94) Hexachlorobutadiene	14.88	225	351141	19.878	µg/l	97
95) Naphthalene	14.97	128	747127	18.967	µg/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	424428	18.360	µg/l	99

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

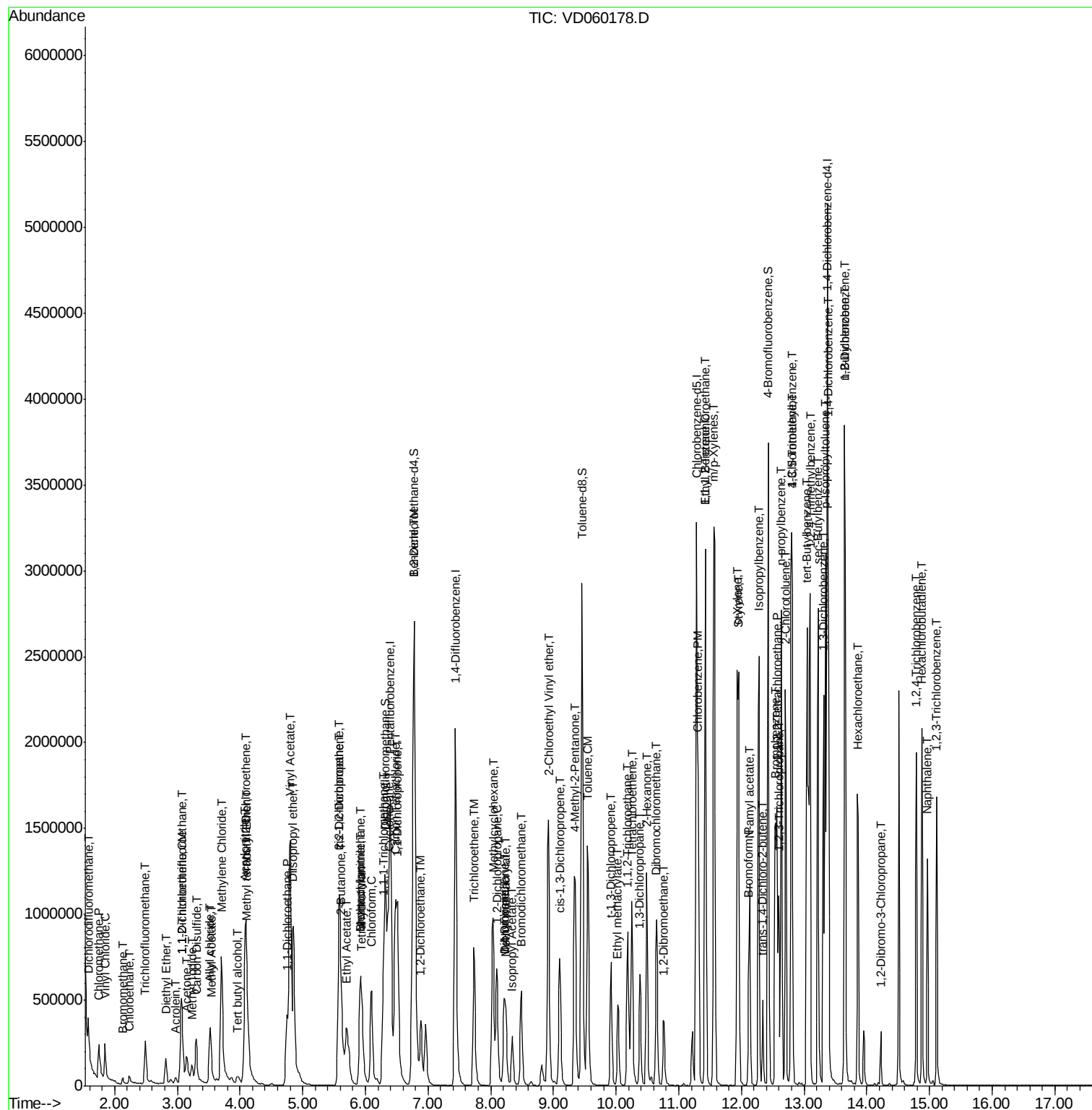
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102418\
Data File : VD060178.D
Acq On : 24 Oct 2018 13:29
Operator : JC/SY
Sample : VD1024SBSD01
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

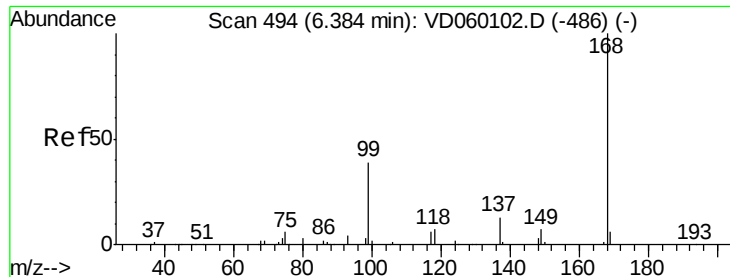
Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM

Quant Time: Oct 25 03:54:25 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion:168 Resp: 1558399

Ion Ratio Lower Upper

168 100

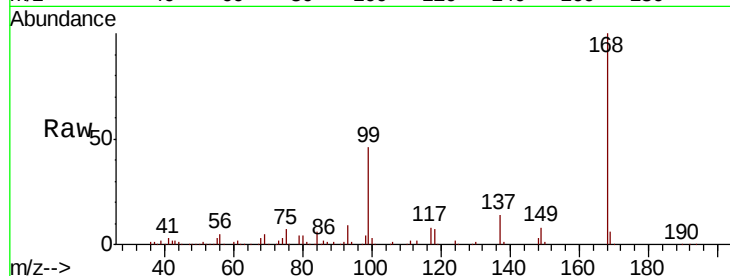
99 46.4 35.4 53.0

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

6.40

500000

400000

300000

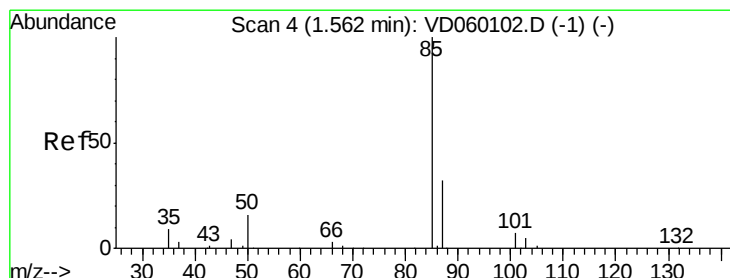
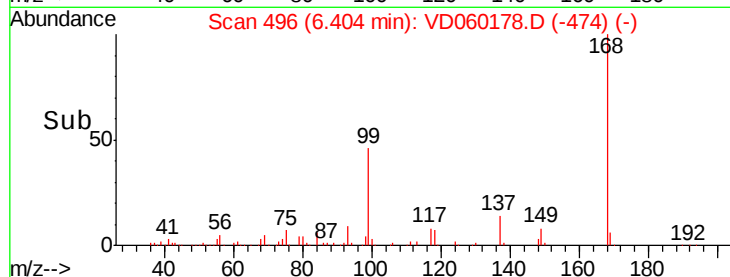
200000

100000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: 19.209 ug/l

RT: 1.58 min Scan# 6

Delta R.T. 0.02 min

Lab File: VD060178.D

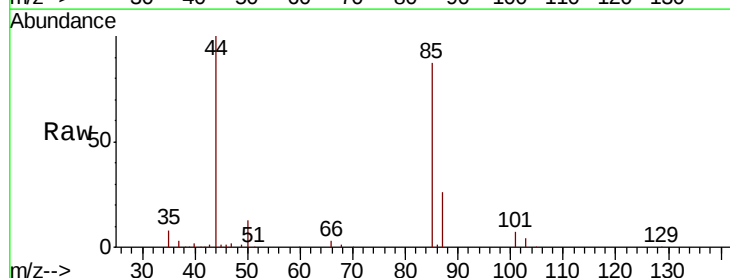
Acq: 24 Oct 2018 13:29

Tgt Ion: 85 Resp: 281594

Ion Ratio Lower Upper

85 100

87 30.5 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

150000

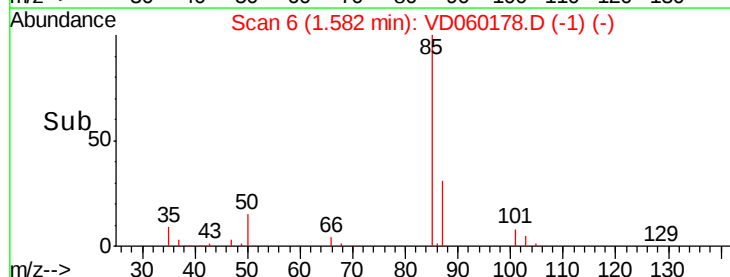
100000

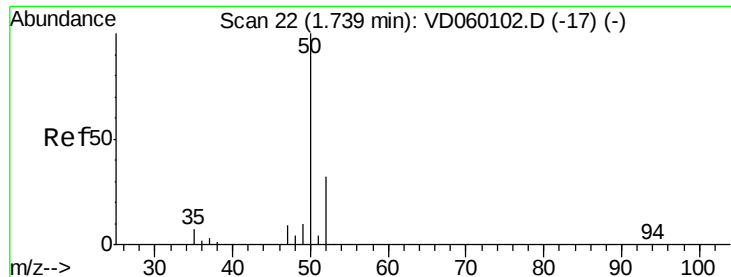
50000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 23.757 ug/l

RT: 1.75 min Scan# 23

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBSD01

Tot Ion: 50 Resp: 314033

Ion Ratio Lower Upper

50 100

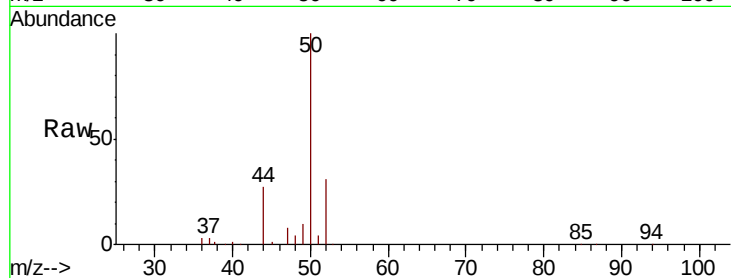
52 30.9 25.3 37.9

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

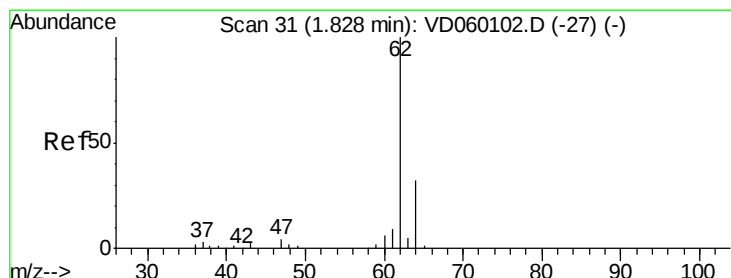
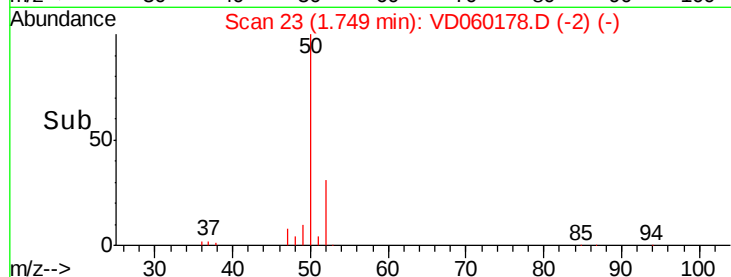
1.75

100000

50000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 22.144 ug/l

RT: 1.85 min Scan# 33

Delta R.T. 0.02 min

Lab File: VD060178.D

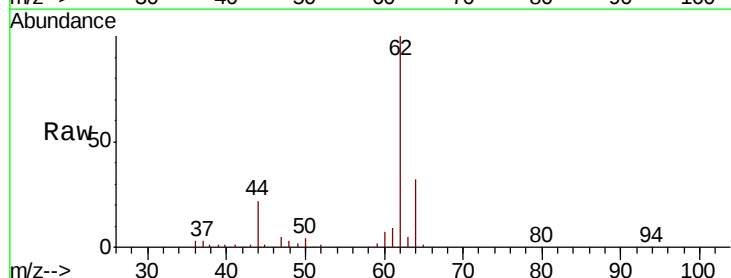
Acq: 24 Oct 2018 13:29

Tgt Ion: 62 Resp: 239547

Ion Ratio Lower Upper

62 100

64 32.1 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

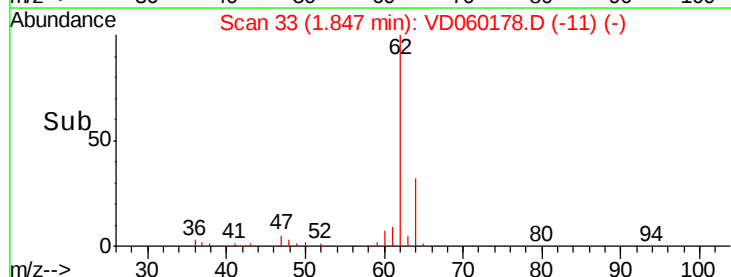
1.85

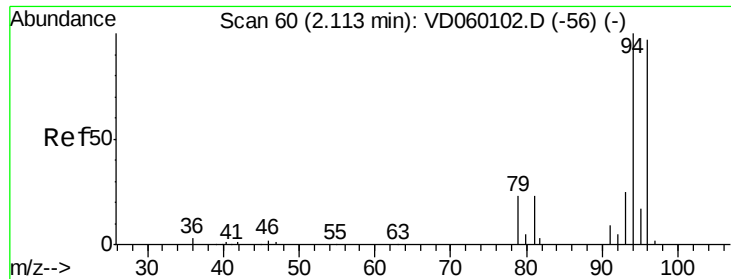
100000

50000

0

Time--> 1.70 1.80 1.90 2.00





#5

Bromomethane

Concen: 15.698 ug/l

RT: 2.13 min Scan# 62

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBSD01

Tot Ion: 94 Resp: 21323

Ion Ratio Lower Upper

94 100

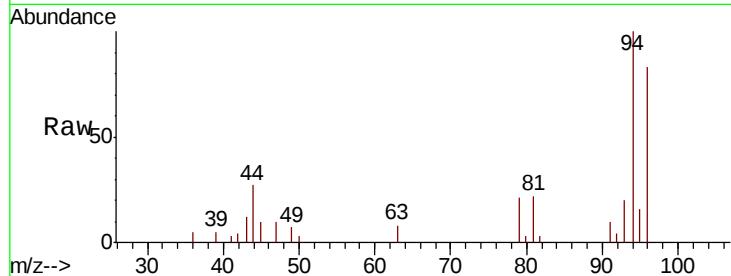
96 82.8 77.4 116.2

Manual Integrations

APPROVED

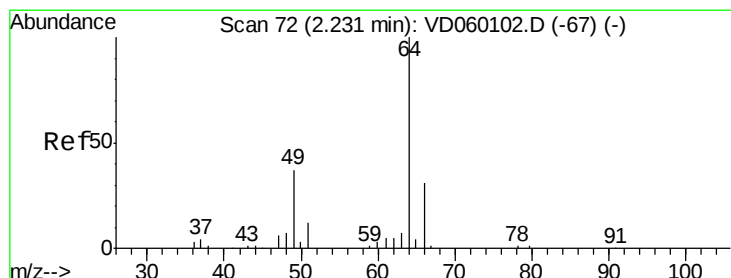
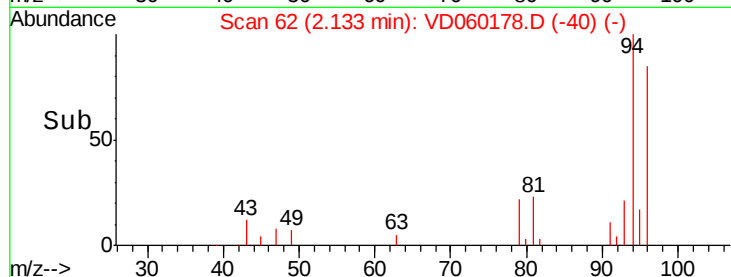
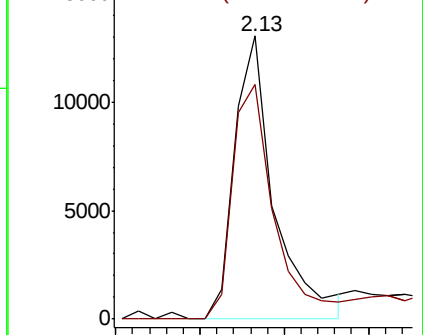
apatel

10/25/2018 4:49:49 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.097 ug/l

RT: 2.23 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD060178.D

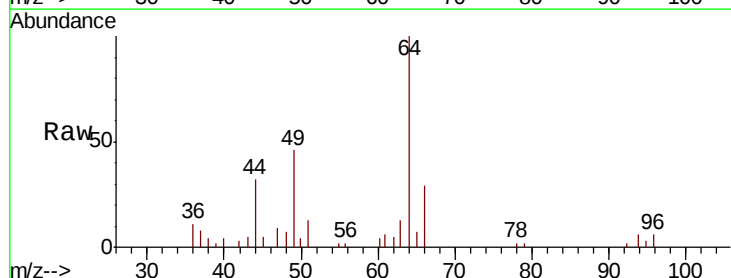
Acq: 24 Oct 2018 13:29

Tgt Ion: 64 Resp: 50472

Ion Ratio Lower Upper

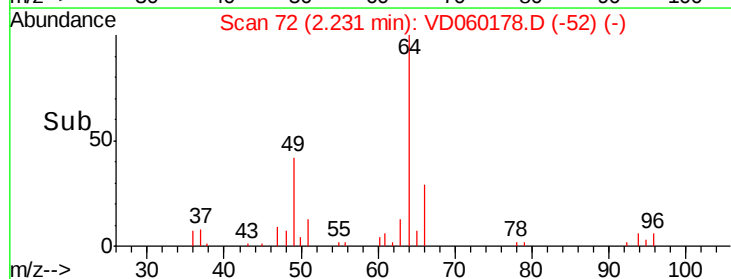
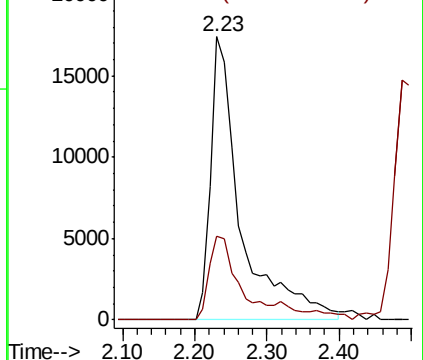
64 100

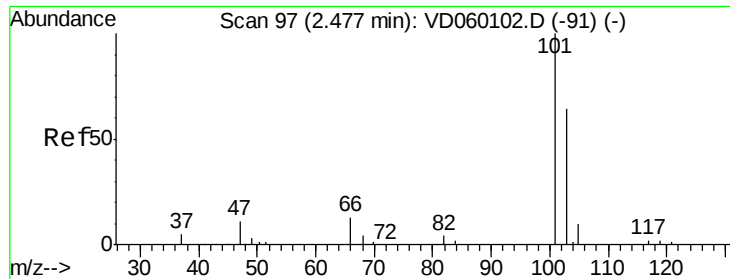
66 29.4 24.6 37.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

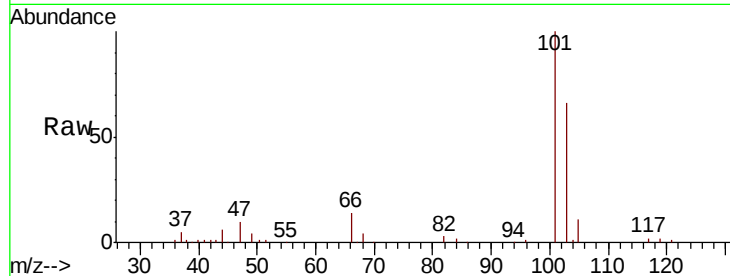
Trichlorofluoromethane
Concen: 19.840 ug/l
RT: 2.50 min Scan# 99
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

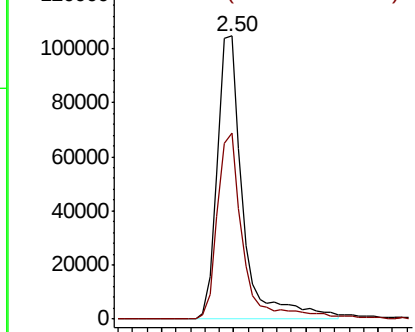
Tot Ion:101 Resp: 256989
Ion Ratio Lower Upper
101 100
103 65.7 51.5 77.3

Manual Integrations
APPROVED

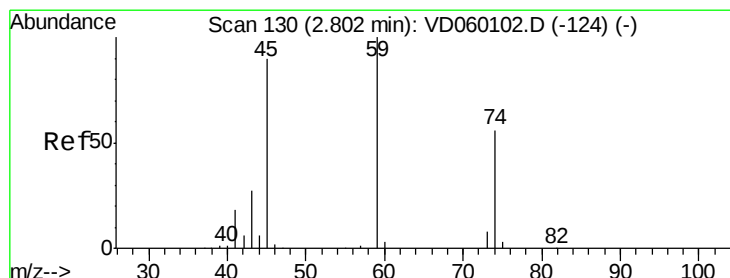
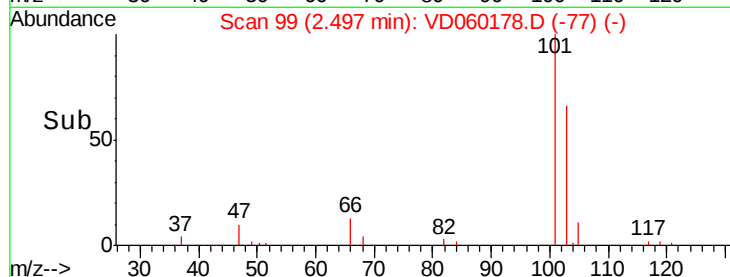
apatel
10/25/2018 4:49:49 PM



Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



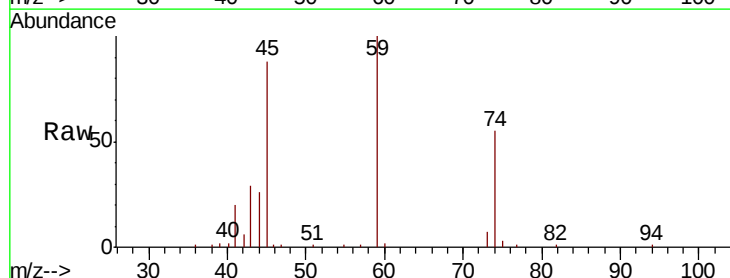
Time-->



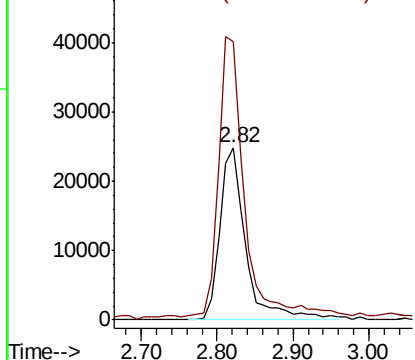
#8

Diethyl Ether
Concen: 22.328 ug/l
RT: 2.82 min Scan# 132
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

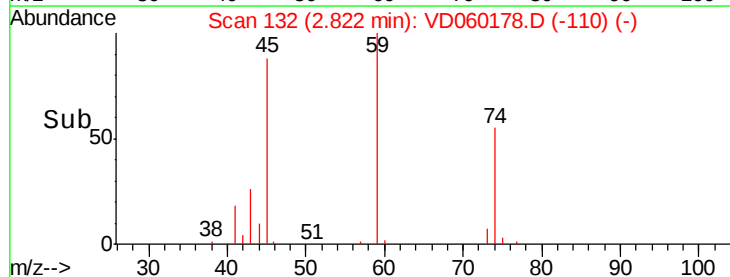
Tgt Ion: 74 Resp: 59470
Ion Ratio Lower Upper
74 100
45 161.2 80.3 241.0

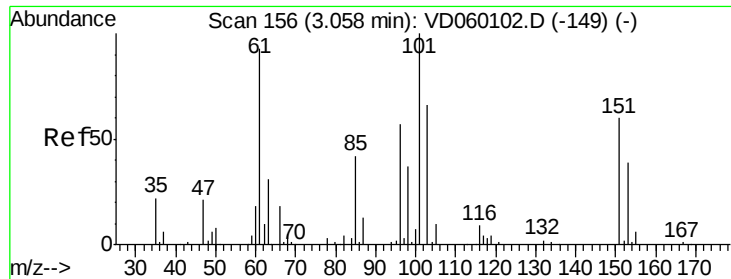


Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.394 ug/l

RT: 3.08 min Scan# 158

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

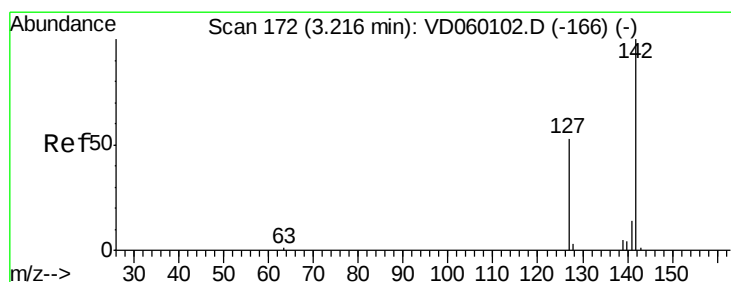
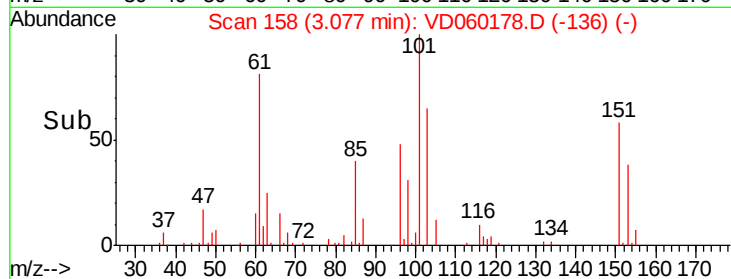
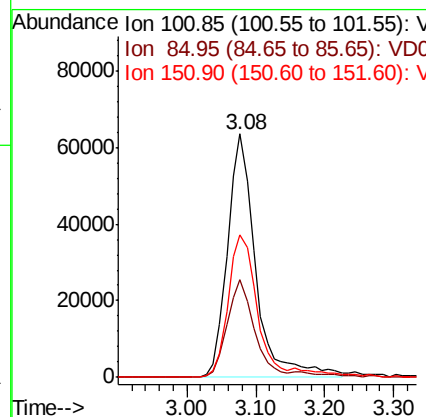
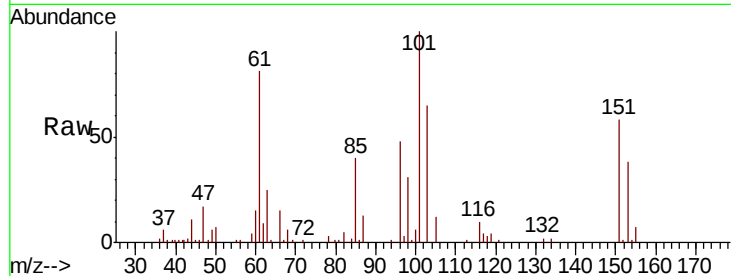
ClientSampleId :

VD1024SBS01

Tot Ion:	101	Resp:	180705
Ion Ratio	Lower	Upper	
101	100		
85	40.1	33.4	50.0
151	58.3	48.0	72.0

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#10

Methyl Iodide

Concen: 21.343 ug/l

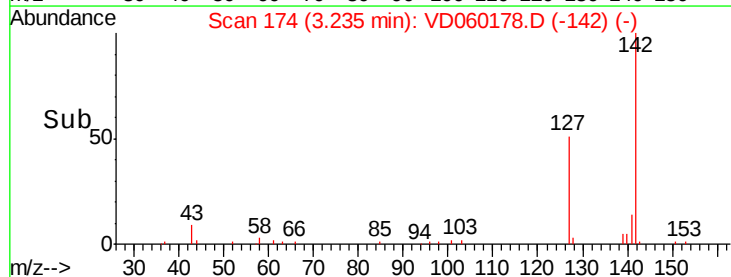
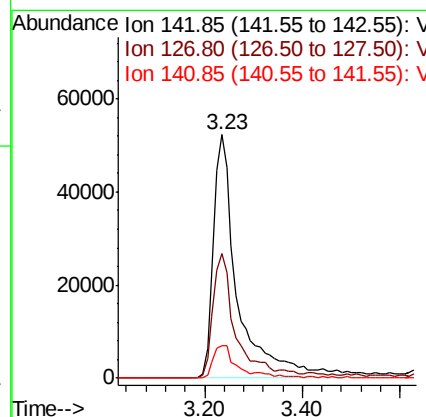
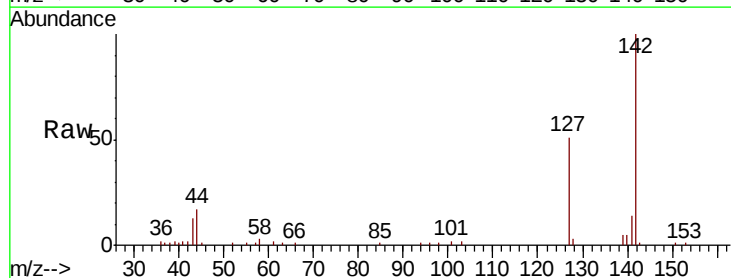
RT: 3.23 min Scan# 174

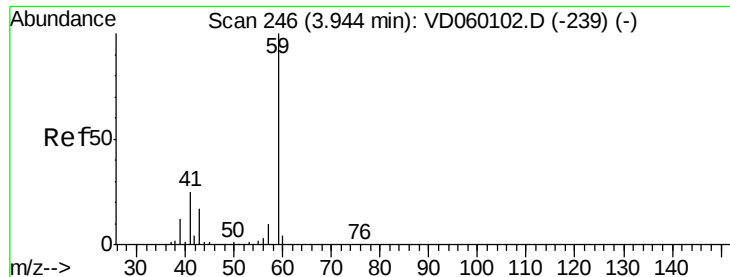
Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	142	Resp:	182646
Ion Ratio	Lower	Upper	
142	100		
127	51.4	42.0	63.0
141	13.6	11.4	17.0





#11

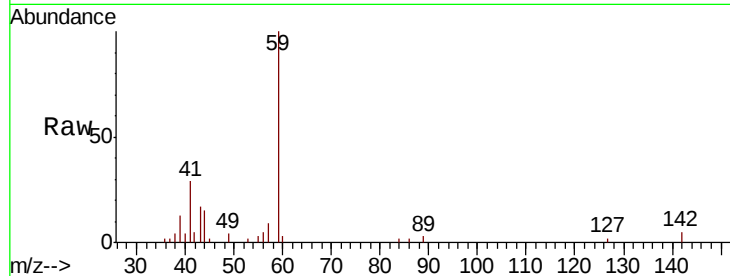
Tert butyl alcohol
Concen: 111.563 ug/l
RT: 3.96 min Scan# 248
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

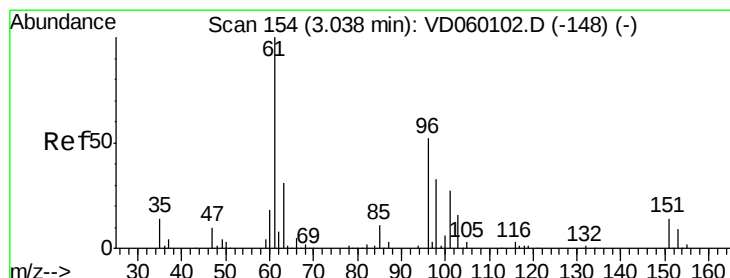
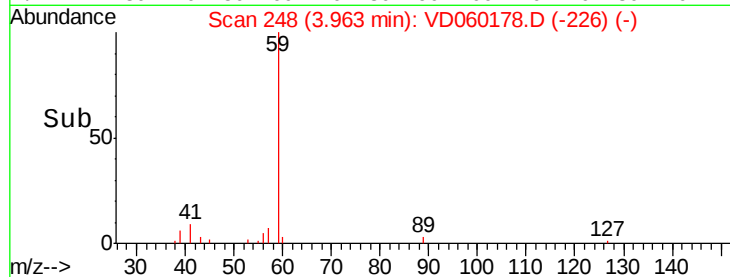
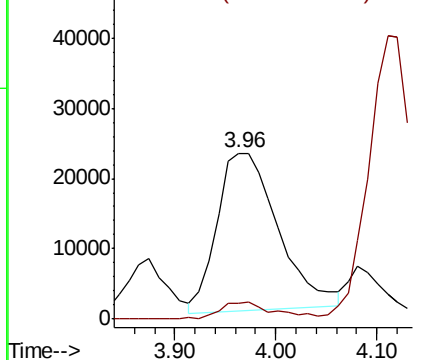
Tot Ion	59	Resp	Lower	Upper
59	100			
57	9.4	7.8	11.6	

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



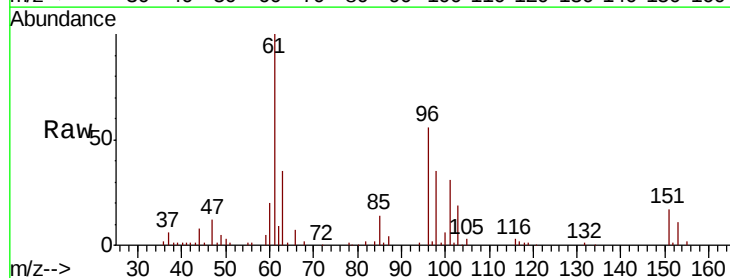
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



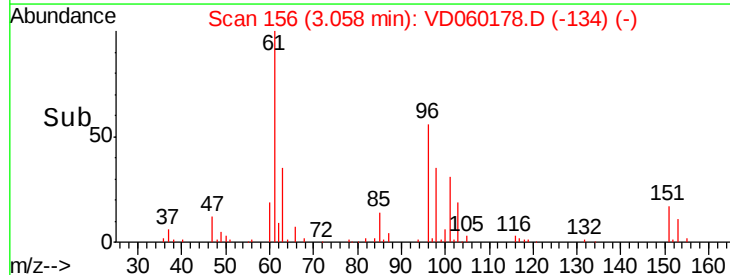
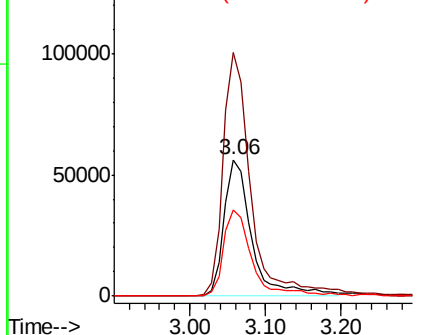
#12

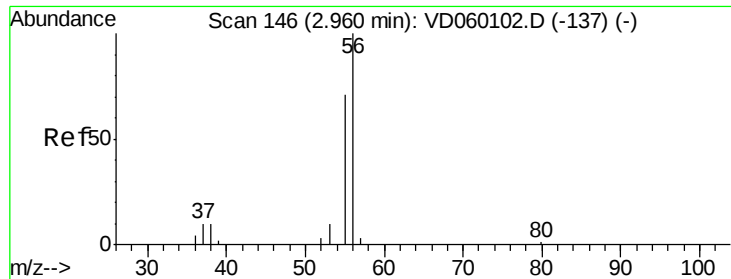
1,1-Dichloroethene
Concen: 22.537 ug/l
RT: 3.06 min Scan# 156
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	96	Resp	Lower	Upper
96	100			
61	178.9	153.0	229.4	
98	63.1	51.1	76.7	



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





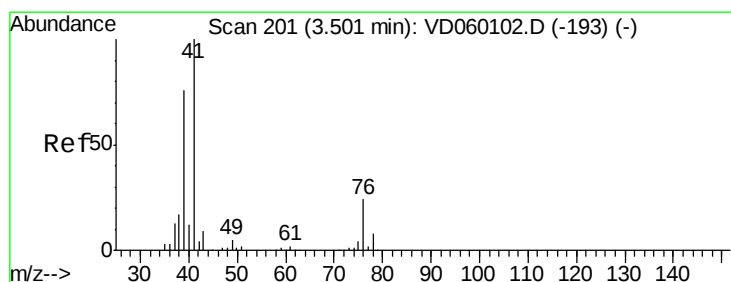
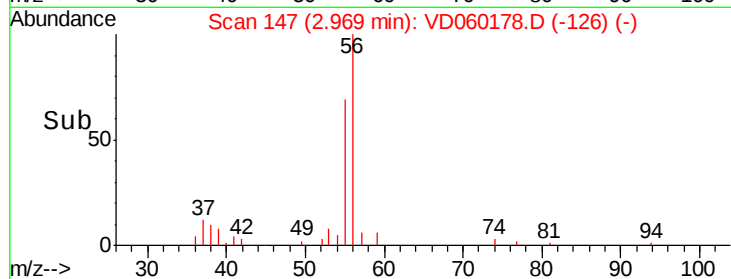
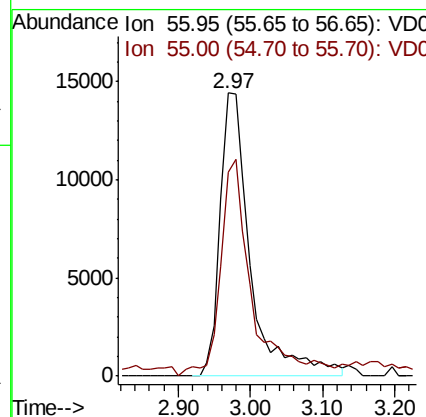
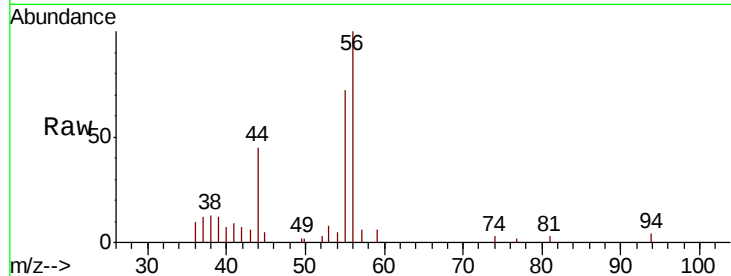
#13
Acrolein
Concen: 80.307 ug/l
RT: 2.97 min Scan# 147
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion: 56 Resp: 41941
Ion Ratio Lower Upper
56 100
55 72.2 57.4 86.2

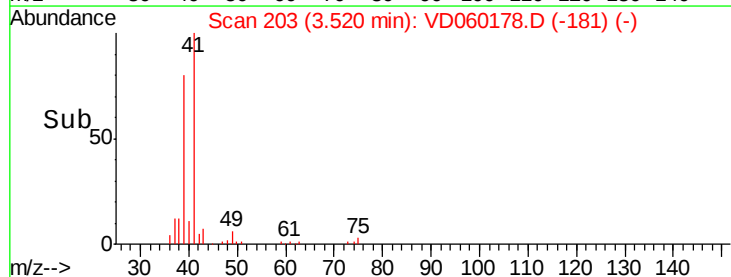
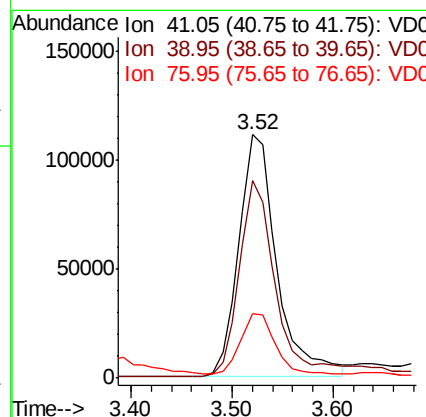
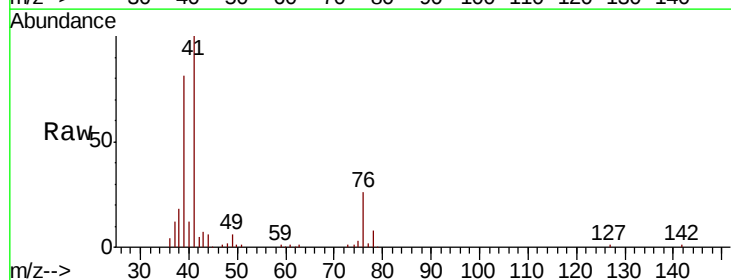
Manual Integrations
APPROVED

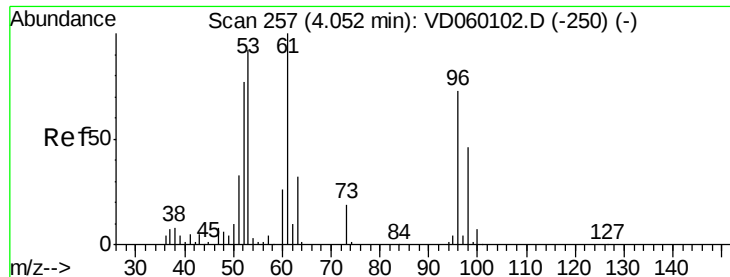
apatel
10/25/2018 4:49:49 PM



#14
Allyl chloride
Concen: 22.232 ug/l
RT: 3.52 min Scan# 203
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion: 41 Resp: 293533
Ion Ratio Lower Upper
41 100
39 81.1 60.6 90.8
76 26.4 21.3 31.9





#15

Acrylonitrile

Concen: 108.951 ug/l

RT: 4.07 min Scan# 259

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

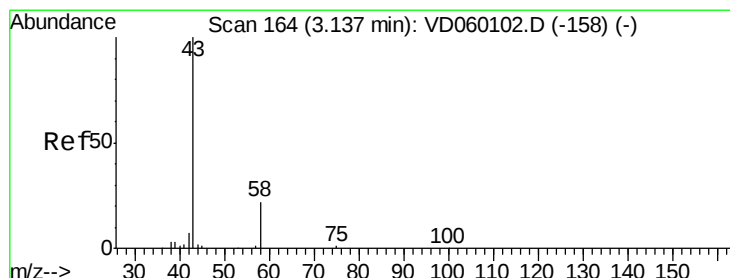
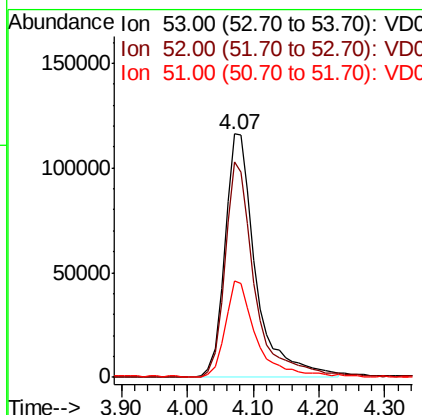
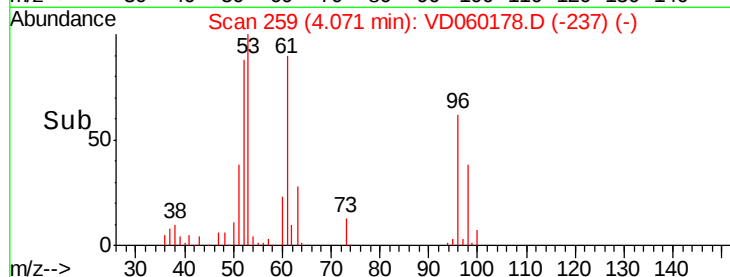
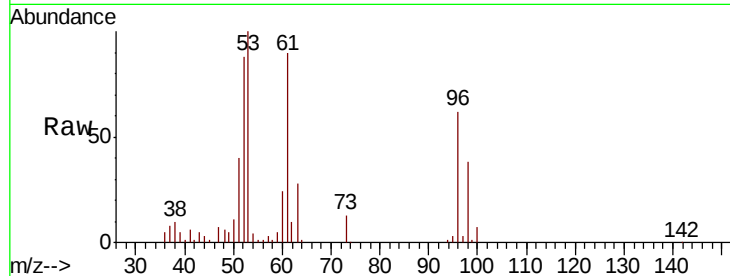
ClientSampleId :

VD1024SBS01

Tot Ion:	53	Resp:	382055
Ion Ratio	Lower	Upper	
53	100		
52	88.3	67.5	101.3
51	39.6	29.3	43.9

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#16

Acetone

Concen: 132.452 ug/l

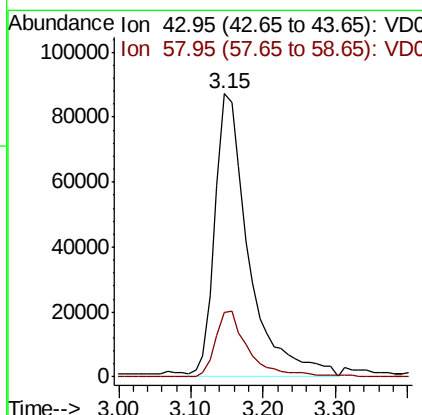
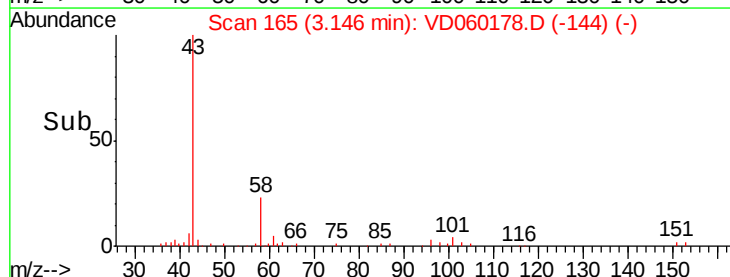
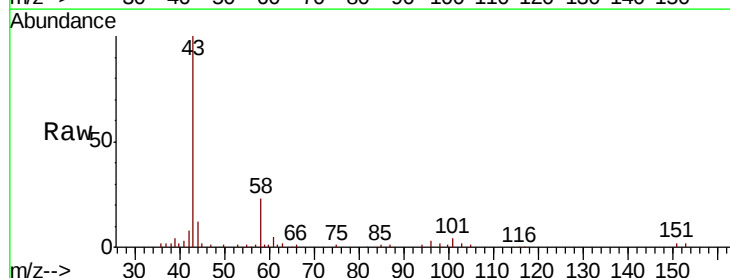
RT: 3.15 min Scan# 165

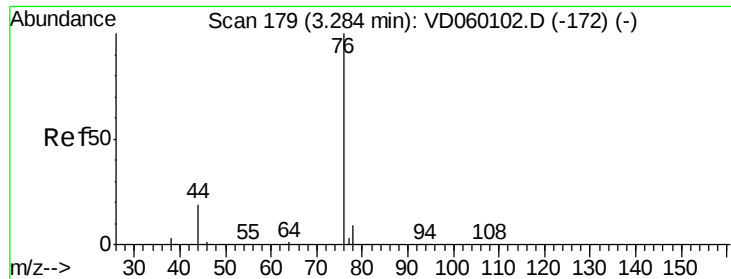
Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	43	Resp:	283909
Ion Ratio	Lower	Upper	
43	100		
58	22.6	17.7	26.5





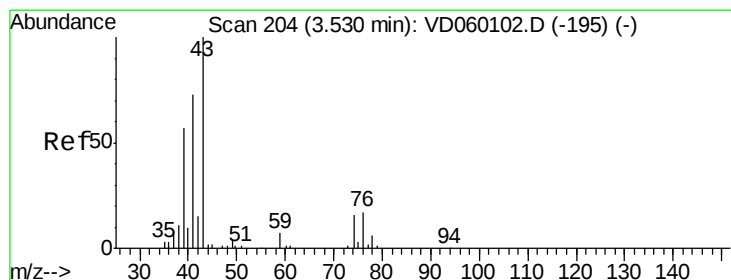
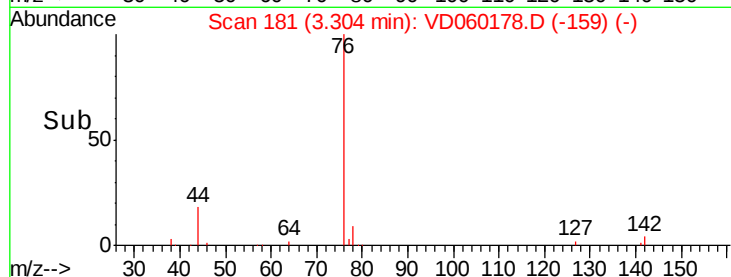
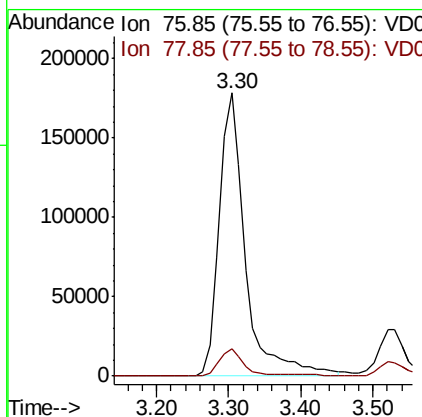
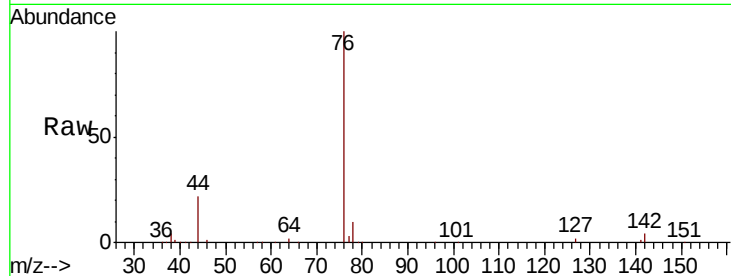
#17
Carbon Disulfide
Concen: 20.955 ug/l
RT: 3.30 min Scan# 181
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion: 76 Resp: 447967
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2

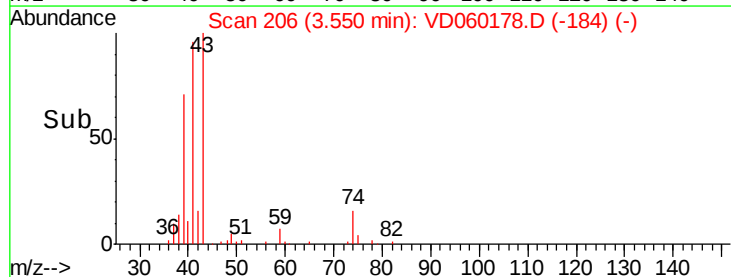
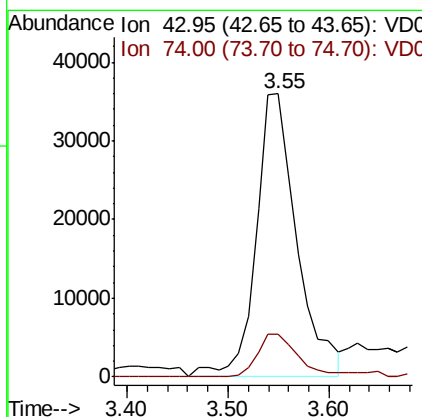
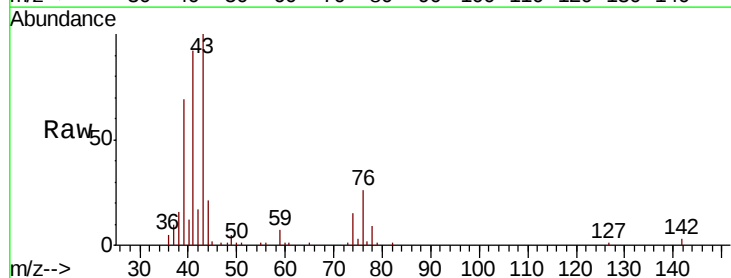
Manual Integrations
APPROVED

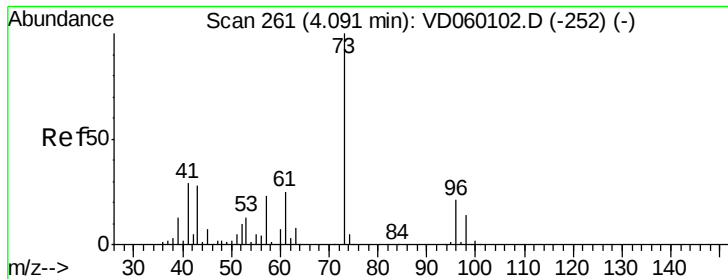
apatel
10/25/2018 4:49:49 PM



#18
Methyl Acetate
Concen: 21.972 ug/l
RT: 3.55 min Scan# 206
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion: 43 Resp: 101227
Ion Ratio Lower Upper
43 100
74 15.1 12.6 19.0





#19

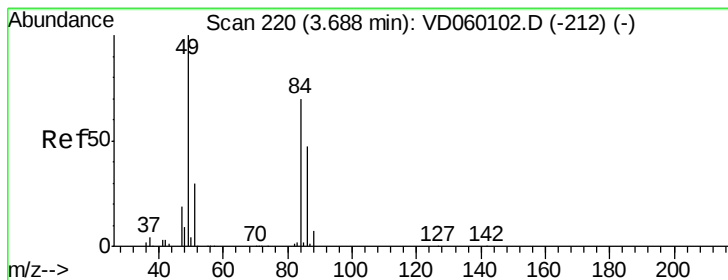
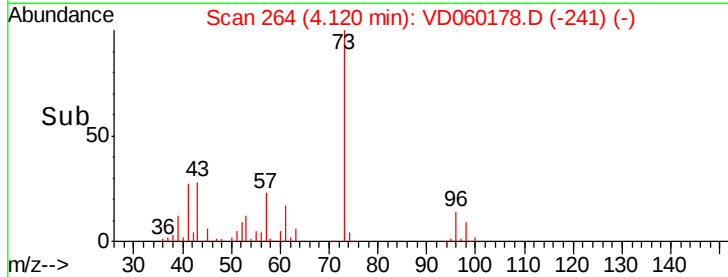
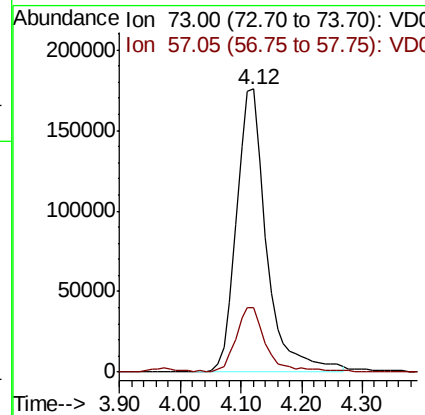
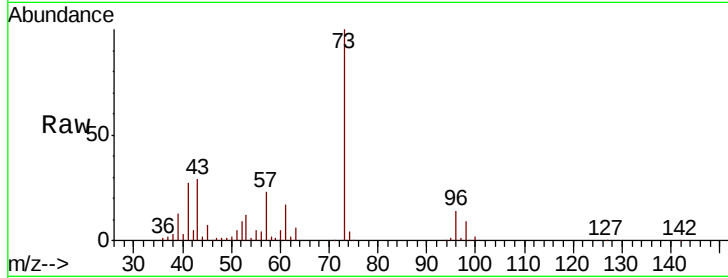
Methyl tert-butyl Ether
 Concen: 21.729 ug/l
 RT: 4.12 min Scan# 264
 Delta R.T. 0.03 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1024SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.7	28.1

Manual Integrations
 APPROVED

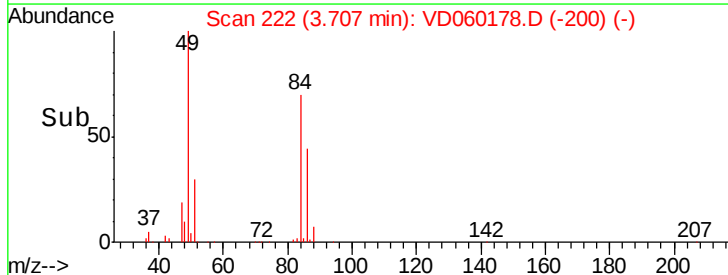
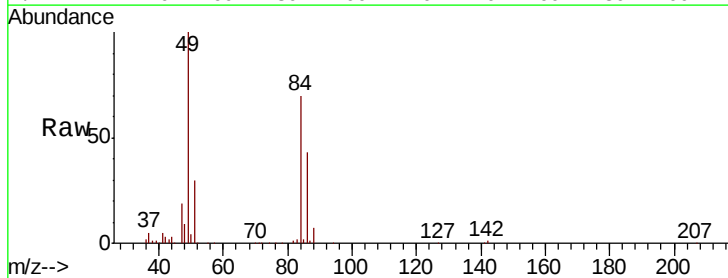
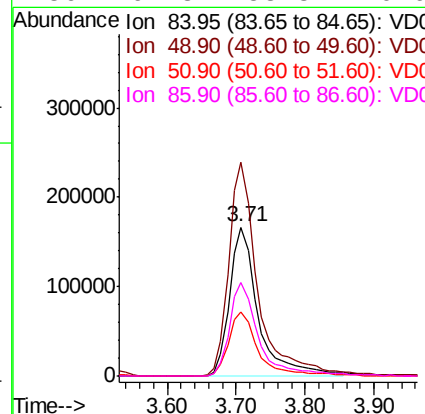
apatel
 10/25/2018 4:49:49 PM

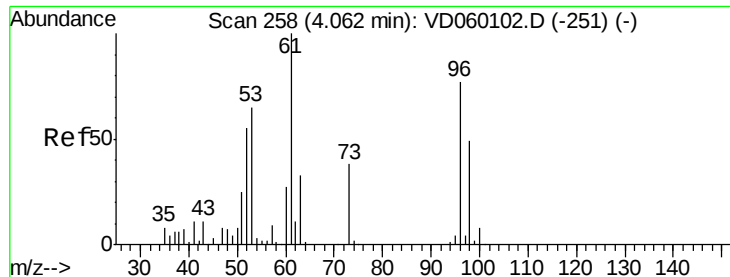


#20

Methylene Chloride
 Concen: 26.503 ug/l
 RT: 3.71 min Scan# 222
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
84	100		
49	143.2	114.6	172.0
51	42.8	33.8	50.8
86	62.3	53.3	79.9





#21

trans-1,2-Dichloroethene

Concen: 20.662 ug/l

RT: 4.09 min Scan# 261

Delta R.T. 0.03 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 96 Resp: 339238

Ion Ratio Lower Upper

96 100

61 132.7 103.3 154.9

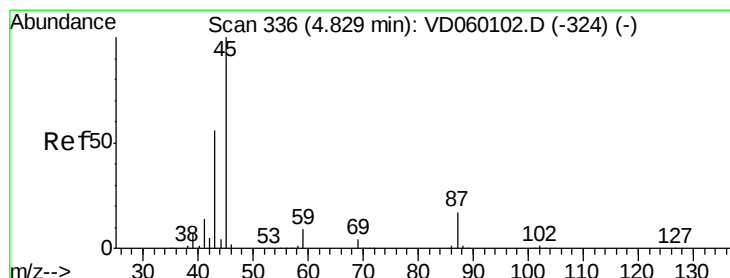
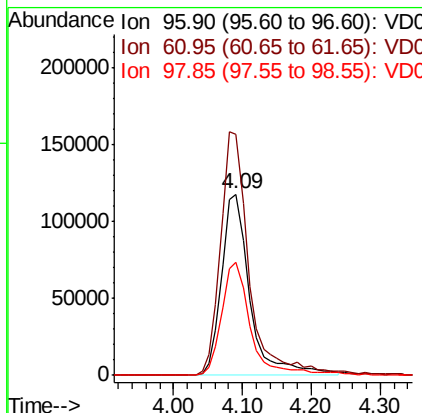
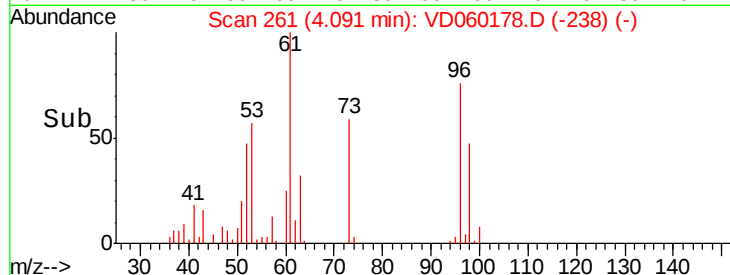
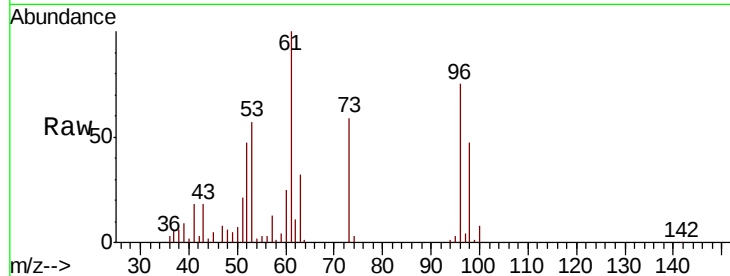
98 62.0 50.4 75.6

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



#22

Diisopropyl ether

Concen: 20.277 ug/l

RT: 4.85 min Scan# 338

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion: 45 Resp: 1195648

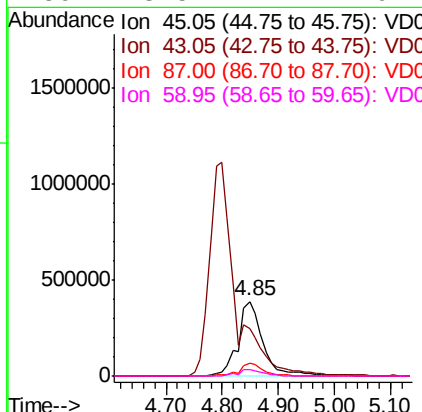
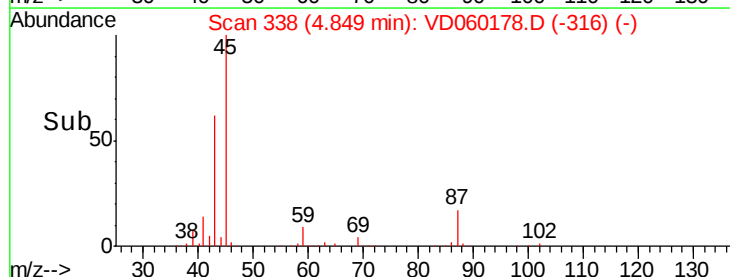
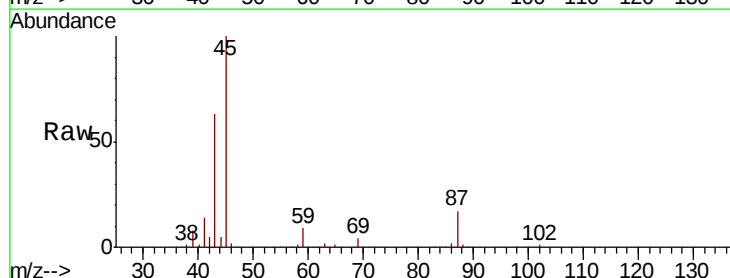
Ion Ratio Lower Upper

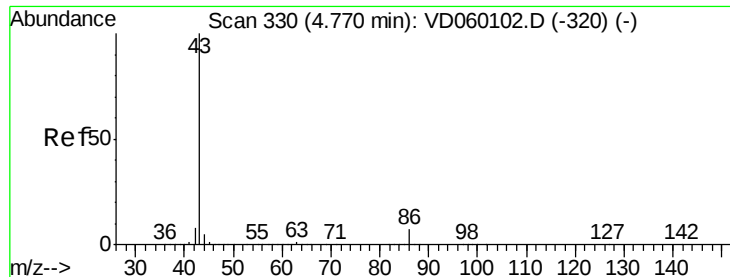
45 100

43 62.5 44.8 67.2

87 17.3 13.9 20.9

59 8.5 7.1 10.7





#23

Vinyl Acetate

Concen: 108.211 ug/l

RT: 4.80 min Scan# 333

Delta R.T. 0.03 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 43 Resp: 3586549

Ion Ratio Lower Upper

43 100

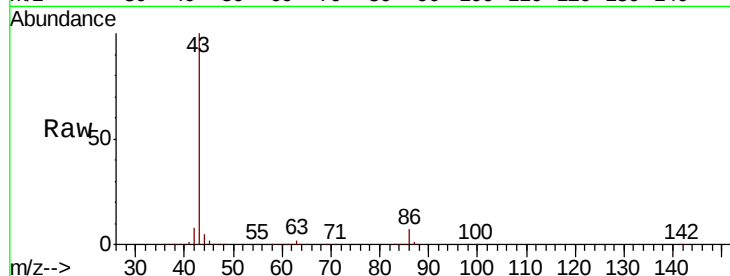
86 6.8 5.6 8.4

Manual Integrations

APPROVED

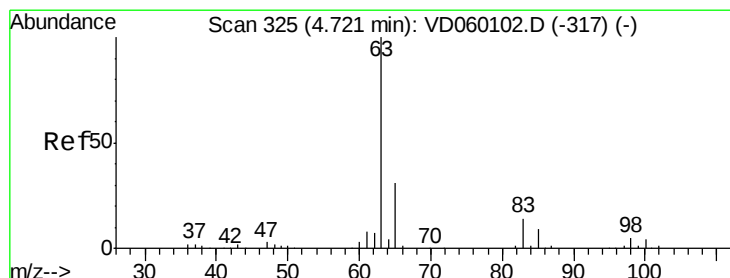
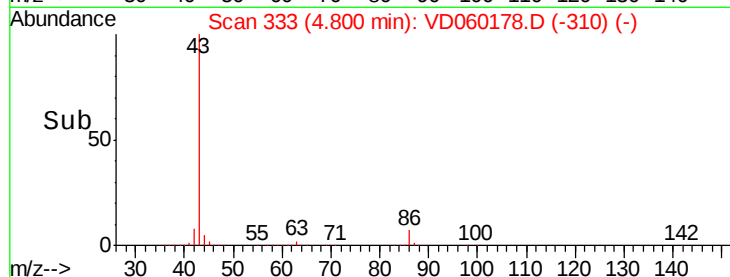
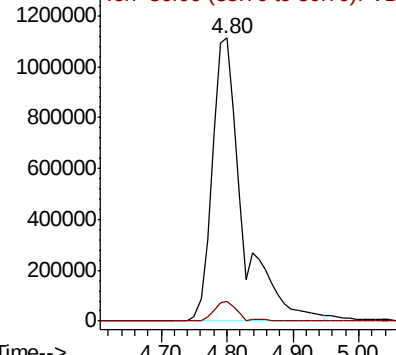
apatel

10/25/2018 4:49:49 PM



Abundance Ion 42.95 (42.65 to 43.65): VD0

Ion 86.00 (85.70 to 86.70): VD0



#24

1,1-Dichloroethane

Concen: 21.372 ug/l

RT: 4.75 min Scan# 328

Delta R.T. 0.03 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

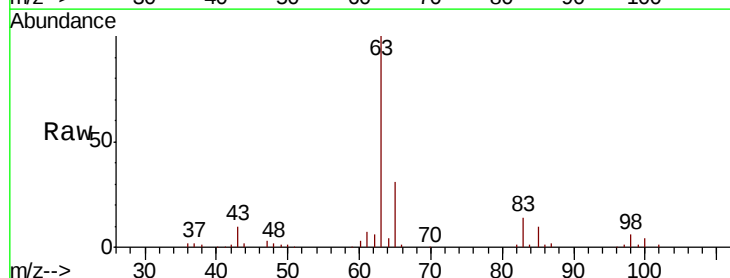
Tgt Ion: 63 Resp: 571390

Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.3

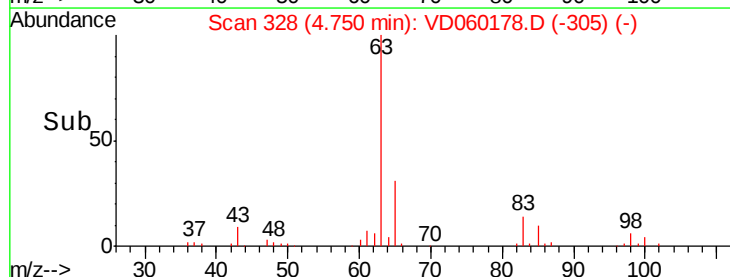
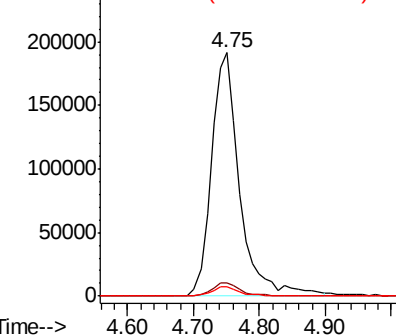
100 3.6 1.8 5.3

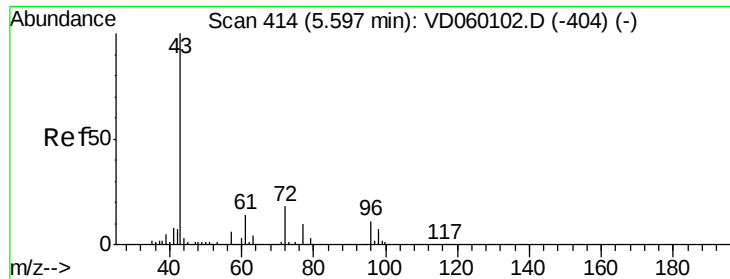


Abundance Ion 62.95 (62.65 to 63.65): VD0

Ion 97.95 (97.65 to 98.65): VD0

Ion 99.95 (99.65 to 100.65): VD0





#25

2-Butanone

Concen: 114.948 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleID :

VD1024SBS01

Tot Ion: 43 Resp: 615543

Ion Ratio Lower Upper

43 100

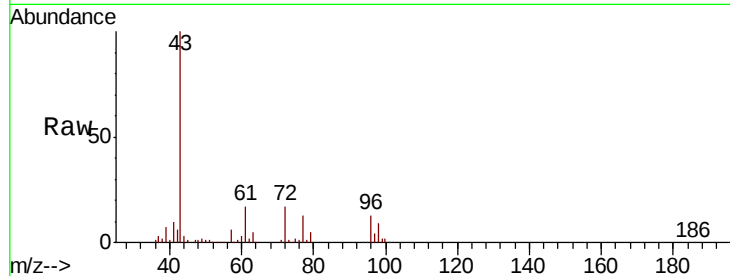
72 17.0 14.5 21.7

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

250000

200000

150000

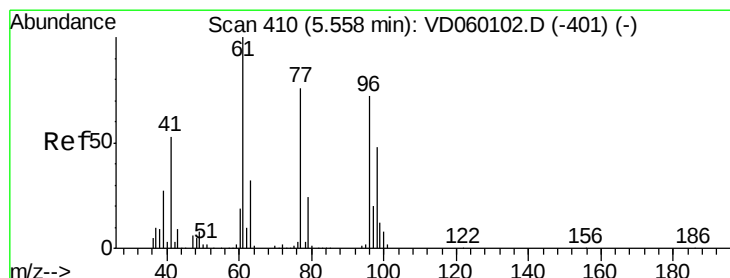
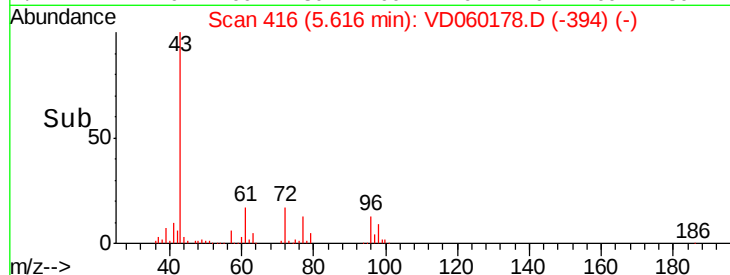
100000

50000

0

5.50 5.55 5.60 5.65 5.70

Time-->



#26

2,2-Dichloropropane

Concen: 22.261 ug/l

RT: 5.58 min Scan# 412

Delta R.T. 0.02 min

Lab File: VD060178.D

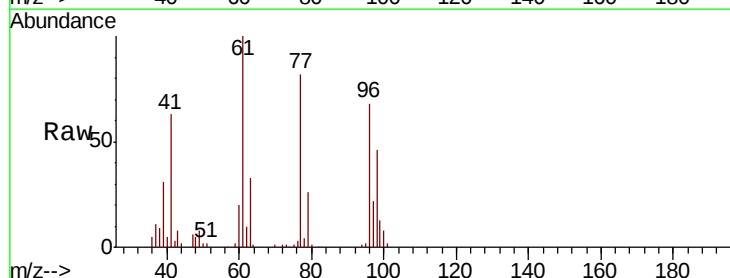
Acq: 24 Oct 2018 13:29

Tgt Ion: 77 Resp: 451173

Ion Ratio Lower Upper

77 100

97 26.8 13.3 39.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

150000

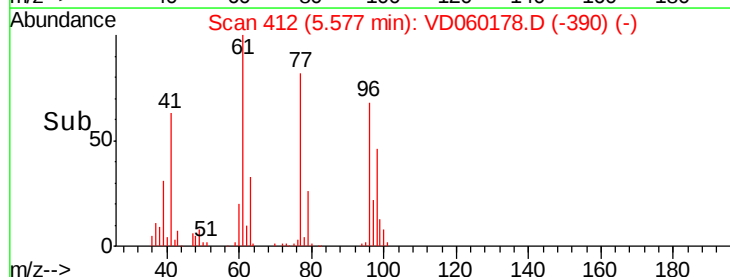
100000

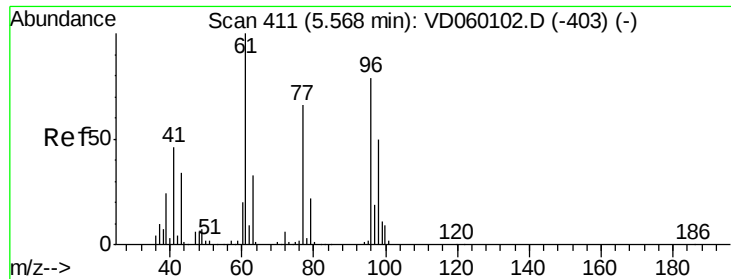
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#27

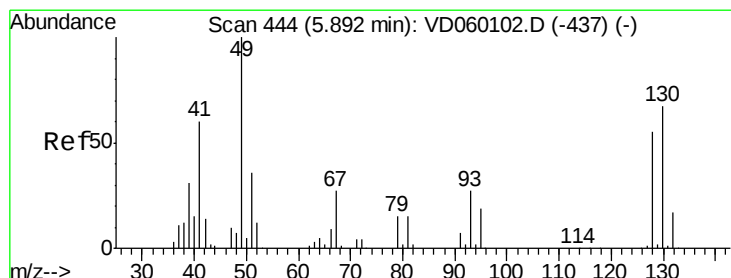
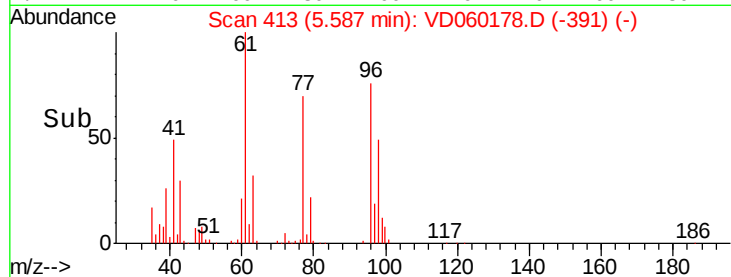
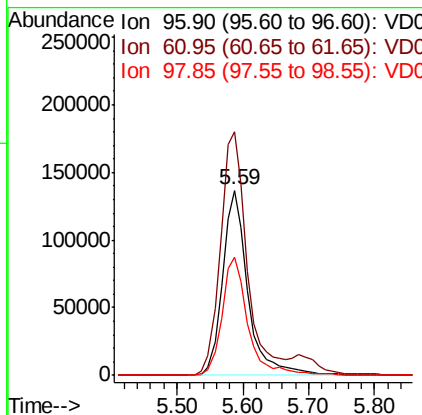
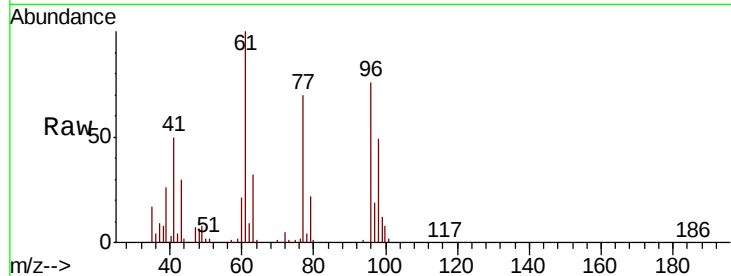
cis-1,2-Dichloroethene
 Concen: 21.133 ug/l
 RT: 5.59 min Scan# 413
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	131.8	0.0	251.8	
98	64.3	0.0	125.2	

Manual Integrations
 APPROVED

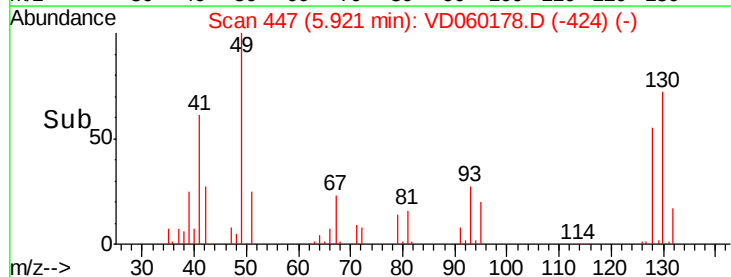
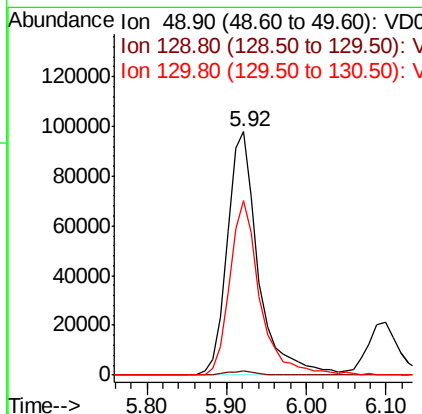
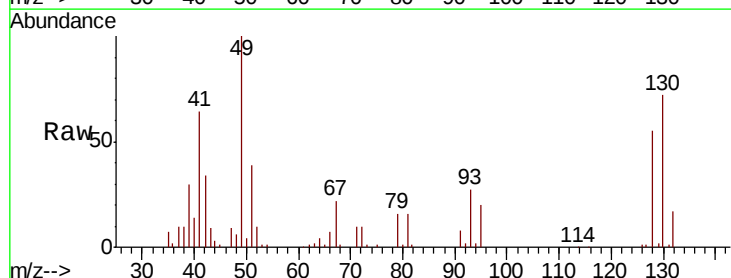
apatel
 10/25/2018 4:49:49 PM

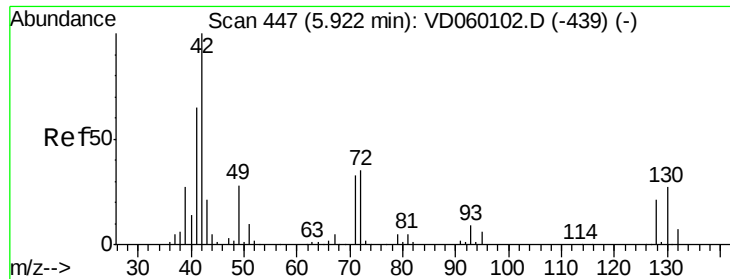


#28

Bromochloromethane
 Concen: 20.432 ug/l
 RT: 5.92 min Scan# 447
 Delta R.T. 0.03 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.8	0.0	3.6	
130	71.8	53.9	80.9	





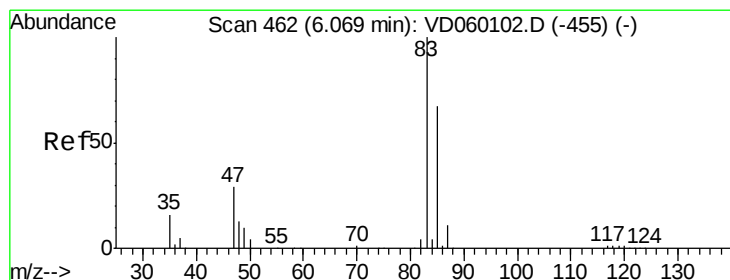
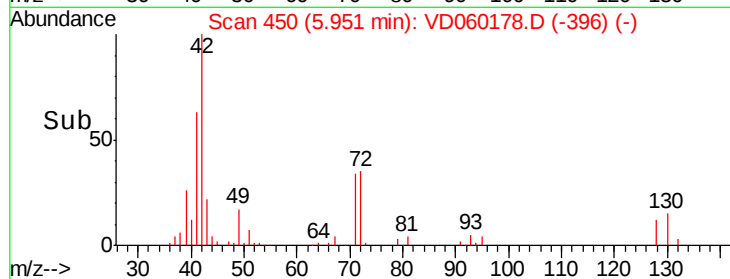
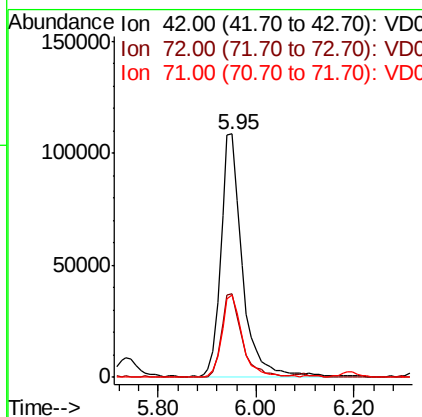
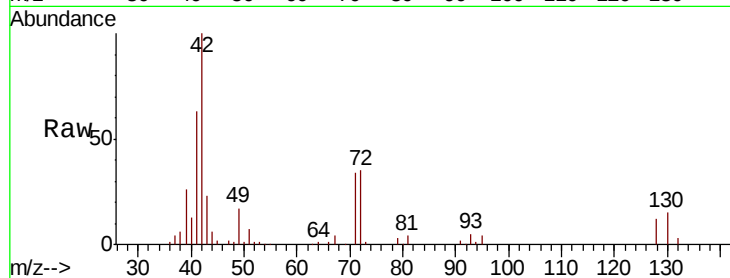
#29
Tetrahydrofuran
Concen: 105.243 ug/l
RT: 5.95 min Scan# 450
Delta R.T. 0.03 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.5	26.9	40.3
71	33.1	26.7	40.1

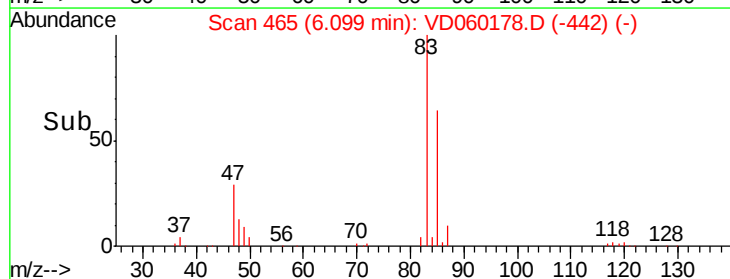
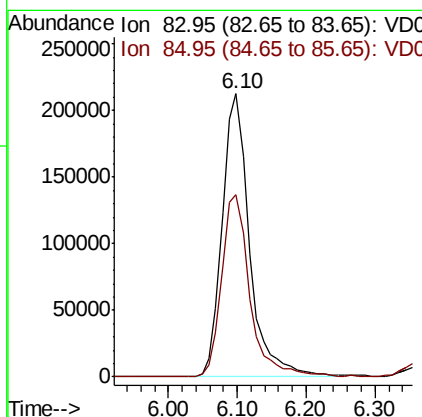
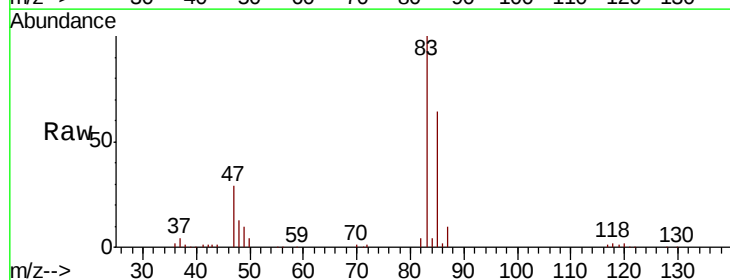
Manual Integrations
APPROVED

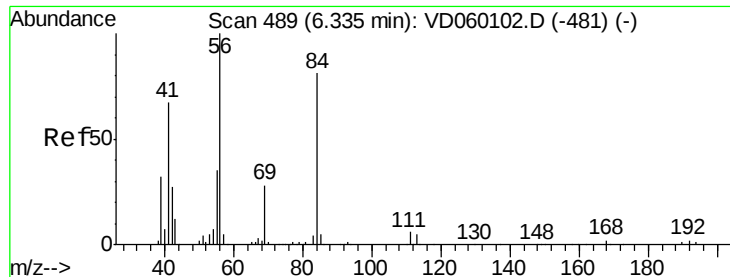
apatel
10/25/2018 4:49:49 PM



#30
Chloroform
Concen: 21.694 ug/l
RT: 6.10 min Scan# 465
Delta R.T. 0.03 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	53.8	80.8





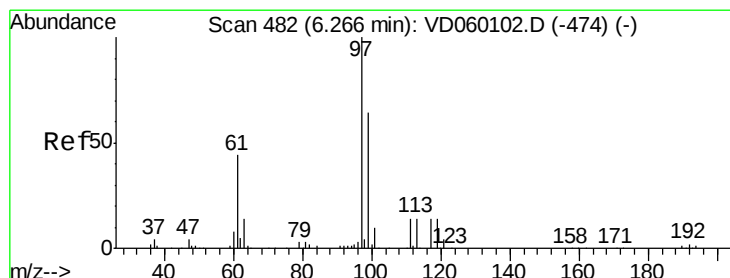
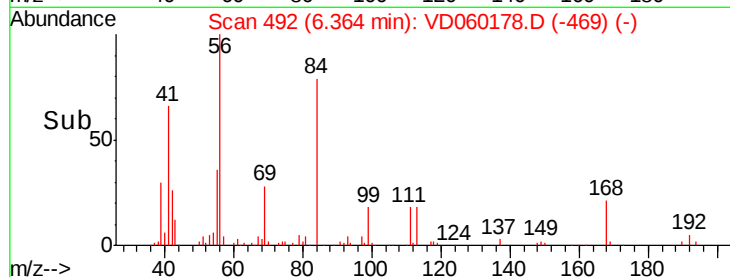
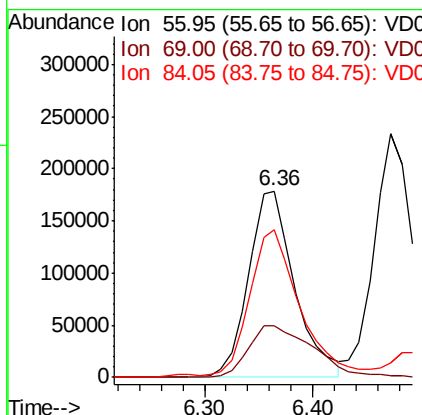
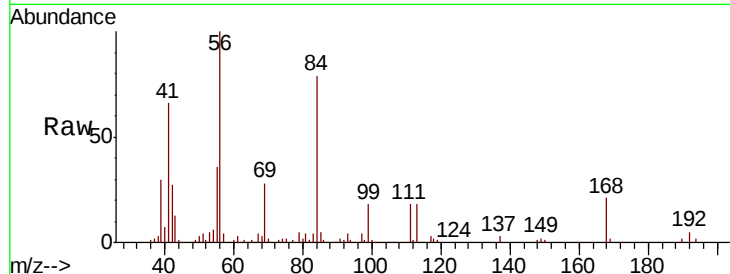
#31
Cyclohexane
Concen: 20.704 ug/l
RT: 6.36 min Scan# 492
Delta R.T. 0.03 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.8	34.2
84	79.2	64.9	97.3

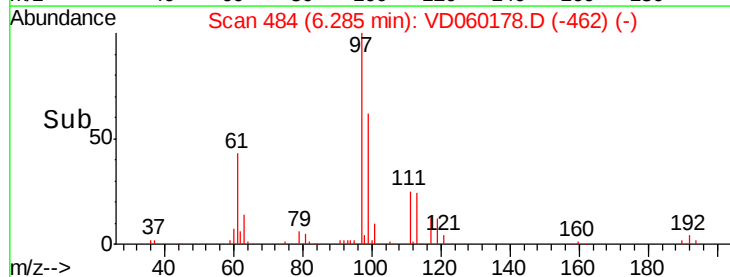
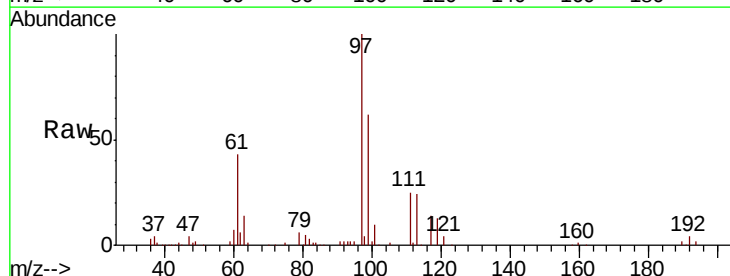
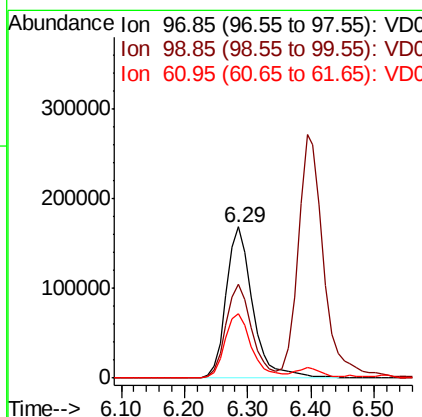
Manual Integrations
APPROVED

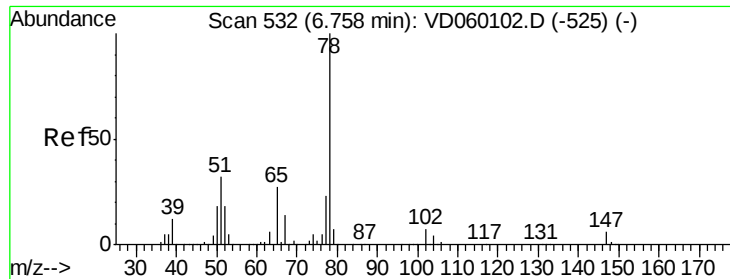
apatel
10/25/2018 4:49:49 PM



#32
1,1,1-Trichloroethane
Concen: 22.201 ug/l
RT: 6.29 min Scan# 484
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.1	51.4	77.0
61	42.7	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 22.201 ug/l

RT: 6.78 min Scan# 534

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBSD01

Tot Ion: 65 Resp: 605371

Ion Ratio Lower Upper

65 100

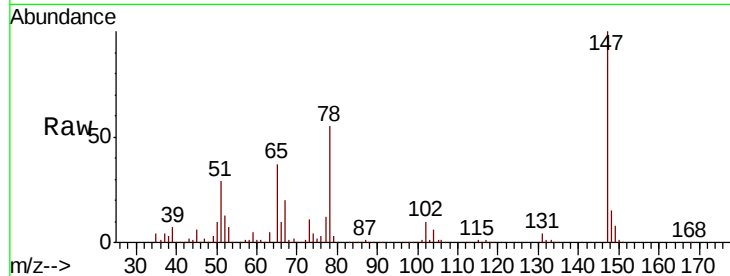
67 54.8 0.0 106.2

Manual Integrations

APPROVED

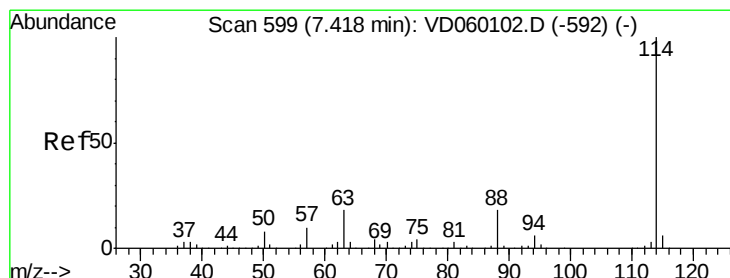
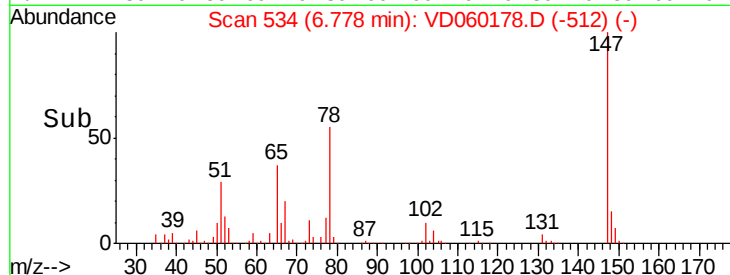
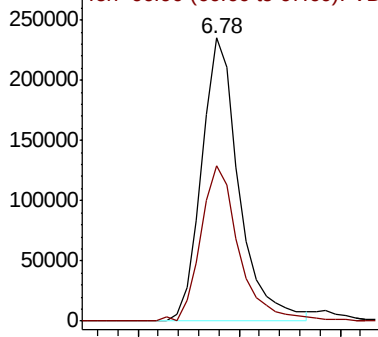
apatel

10/25/2018 4:49:49 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

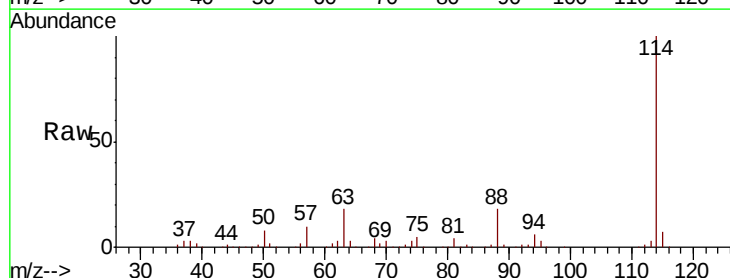
Tgt Ion: 114 Resp: 2241741

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.0

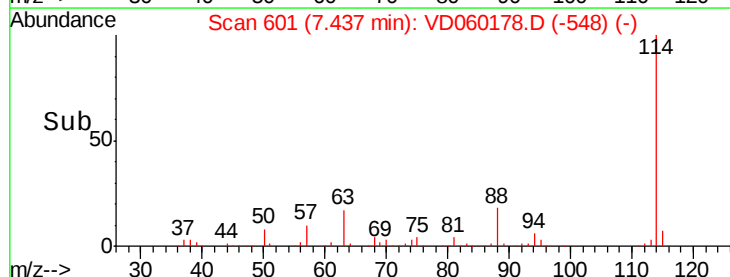
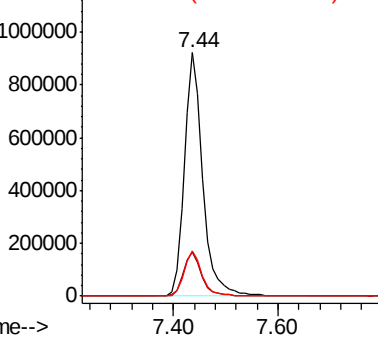
88 18.4 0.0 36.2

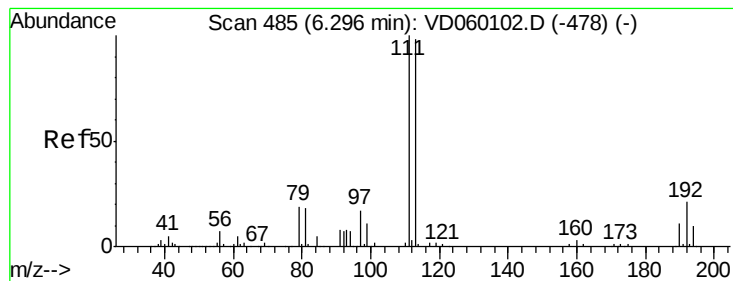


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 487

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

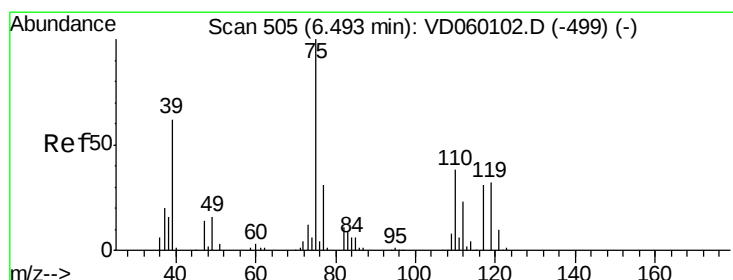
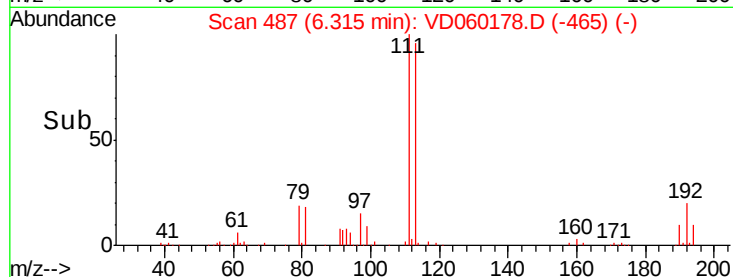
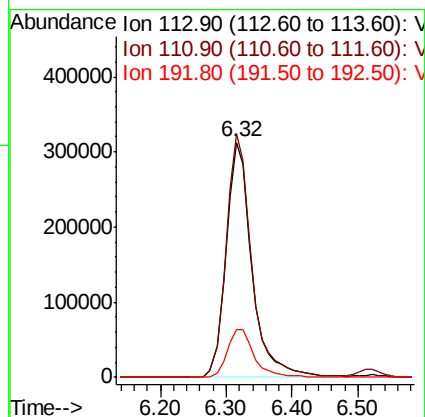
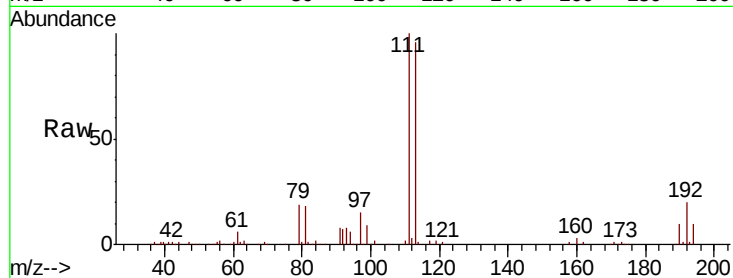
ClientSampleId :

VD1024SBS01

Tot Ion:	113	Resp:	857599
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.5	122.3
192	20.6	17.4	26.0

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#36

1,1-Dichloropropene

Concen: 20.131 ug/l

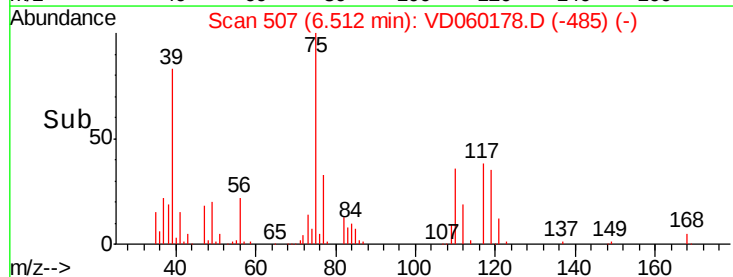
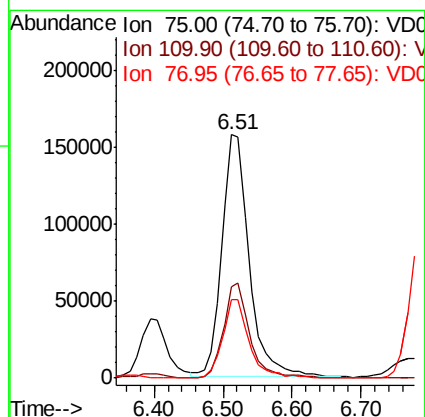
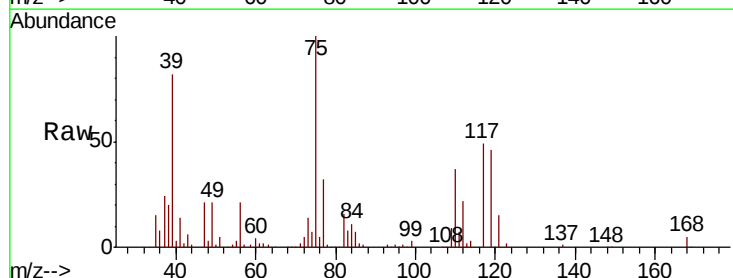
RT: 6.51 min Scan# 507

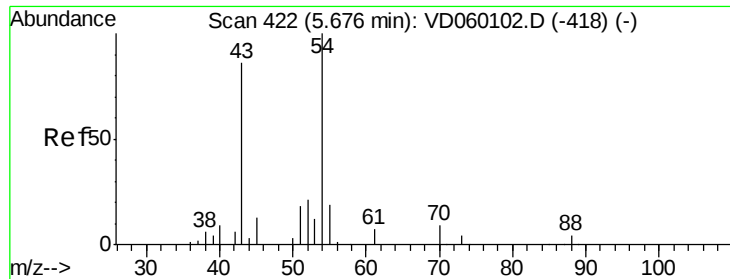
Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	75	Resp:	431234
Ion	Ratio	Lower	Upper
75	100		
110	37.2	19.0	57.0
77	32.1	24.9	37.3





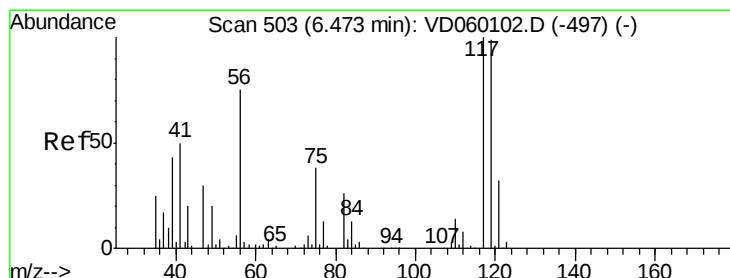
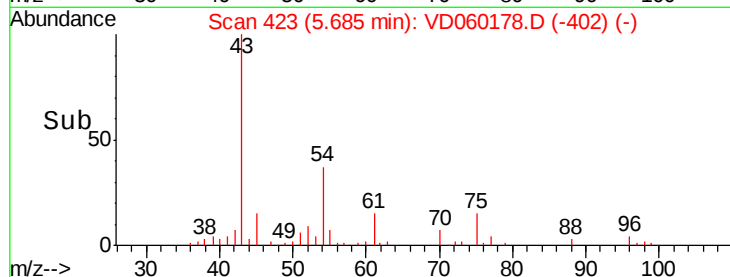
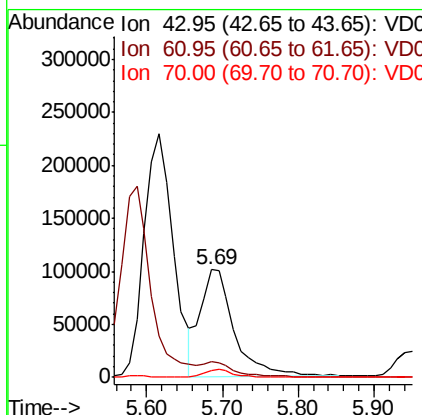
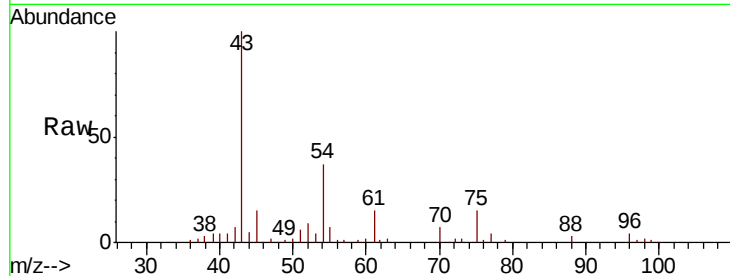
#37
Ethyl Acetate
Concen: 21.882 ug/l
RT: 5.69 min Scan# 423
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.5	15.7
70	6.6	6.3	9.5

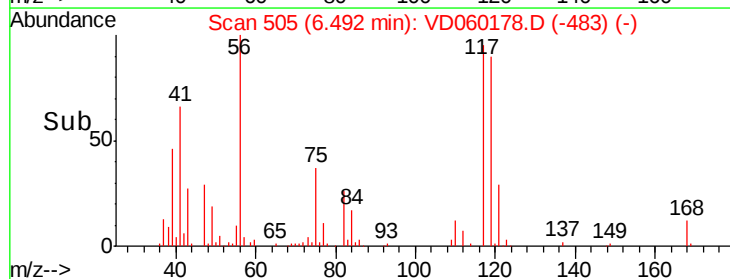
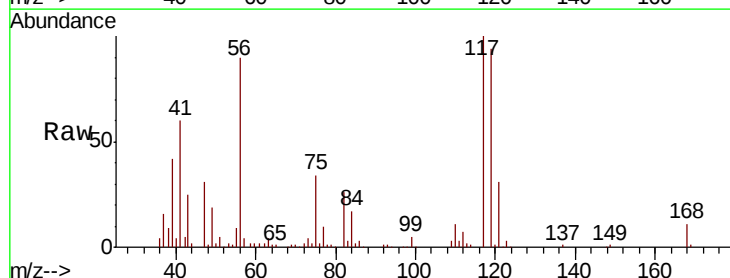
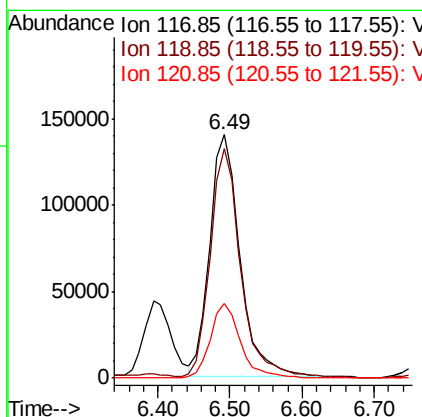
Manual Integrations
APPROVED

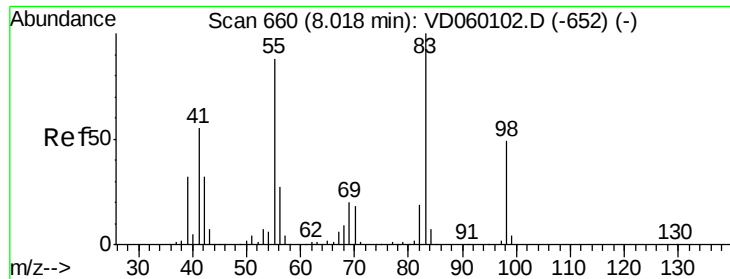
apatel
10/25/2018 4:49:49 PM



#38
Carbon Tetrachloride
Concen: 20.967 ug/l
RT: 6.49 min Scan# 505
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.8	116.6
121	30.5	24.8	37.2





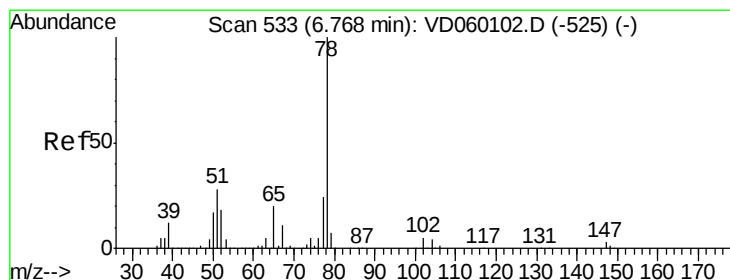
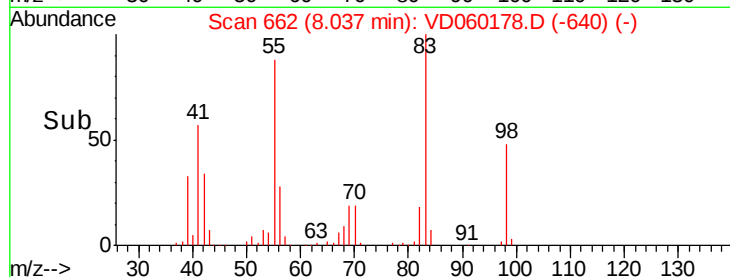
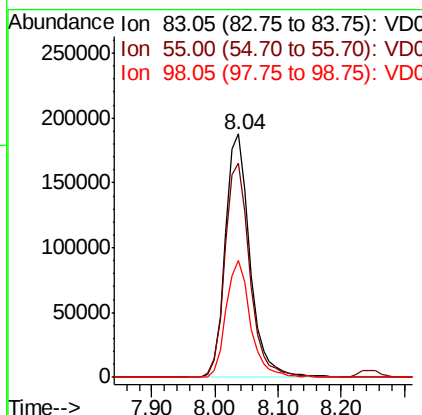
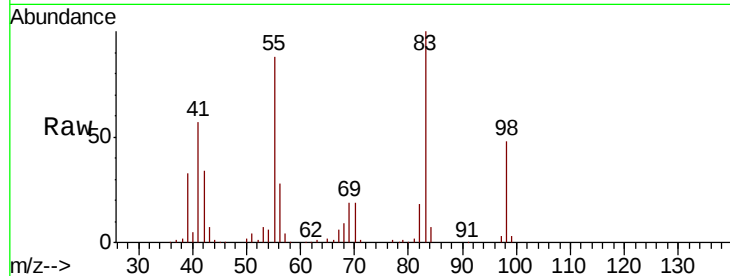
#39
Methvlcvclohexane
Concen: 20.801 ug/l
RT: 8.04 min Scan# 662
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBS01

Tot Ion: 83 Resp: 506286
Ion Ratio Lower Upper
83 100
55 87.9 70.5 105.7
98 48.1 39.4 59.2

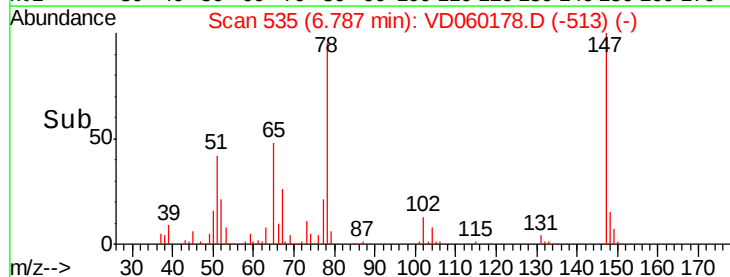
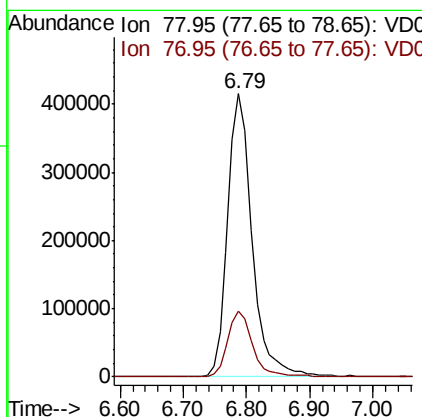
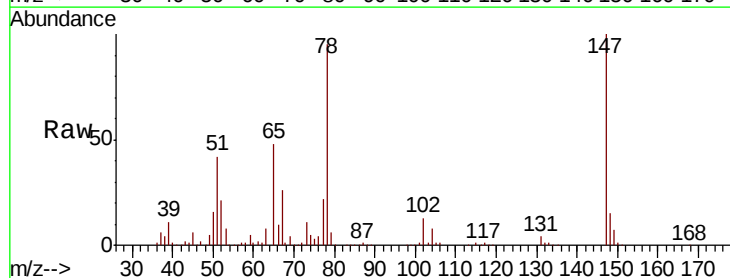
Manual Integrations
APPROVED

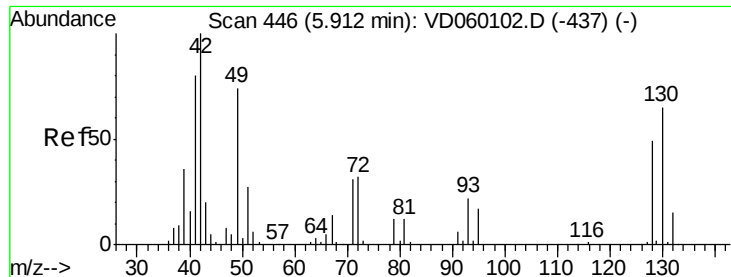
apatel
10/25/2018 4:49:49 PM



#40
Benzene
Concen: 19.903 ug/l
RT: 6.79 min Scan# 535
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion: 78 Resp: 1115399
Ion Ratio Lower Upper
78 100
77 23.3 19.0 28.4





#41

Methacrylonitrile

Concen: 11.535 ug/l m

RT: 5.91 min Scan# 446

Delta R.T. -0.00 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 41 Resp: 92703

Ion Ratio Lower Upper

41 100

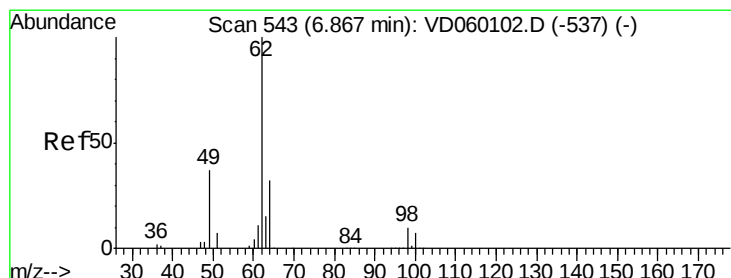
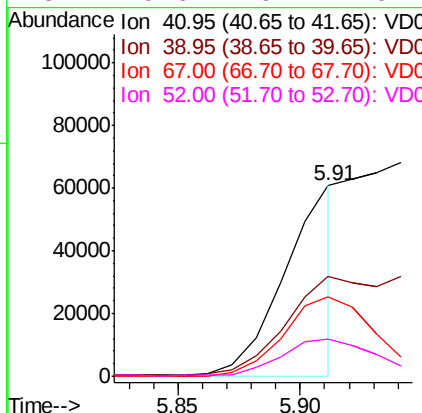
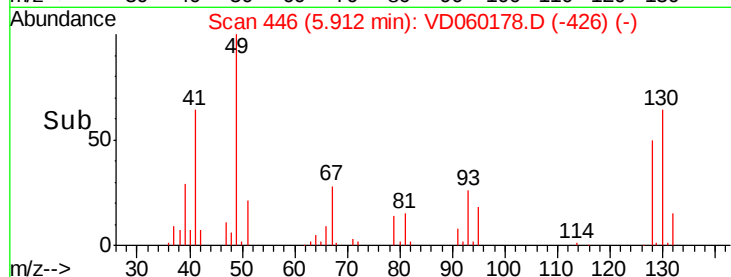
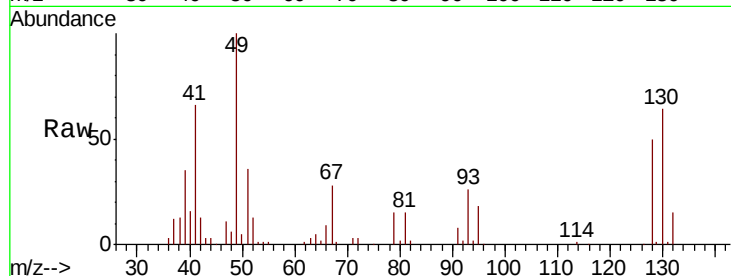
39 52.3 36.0 54.0

67 41.4 13.9 20.9#

52 19.6 6.1 9.1#

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#42

1,2-Dichloroethane

Concen: 20.451 ug/l

RT: 6.89 min Scan# 545

Delta R.T. 0.02 min

Lab File: VD060178.D

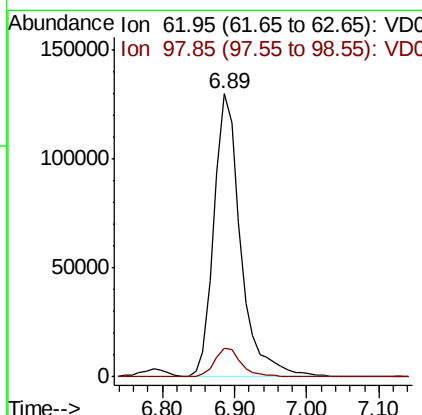
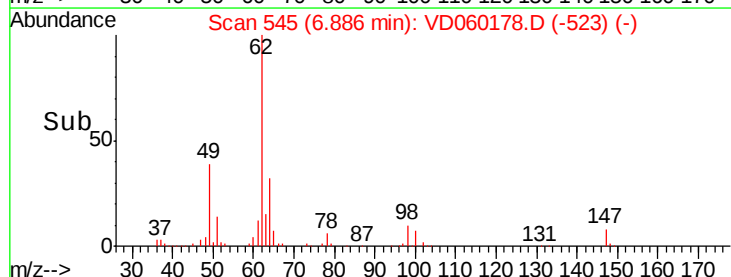
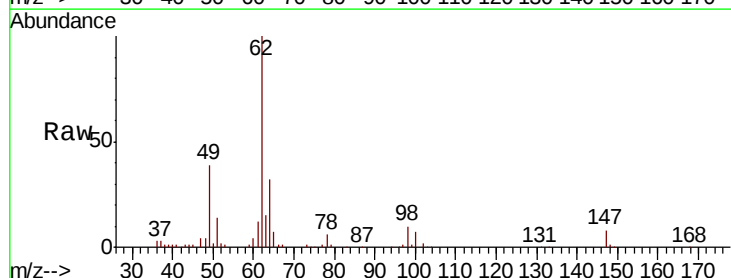
Acq: 24 Oct 2018 13:29

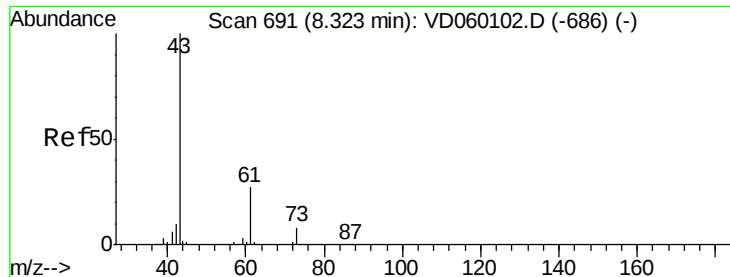
Tgt Ion: 62 Resp: 328594

Ion Ratio Lower Upper

62 100

98 9.9 0.0 20.6





#43

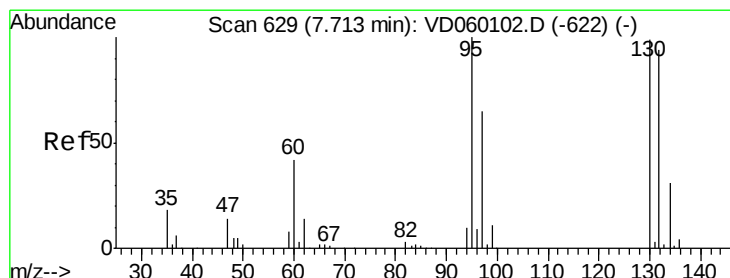
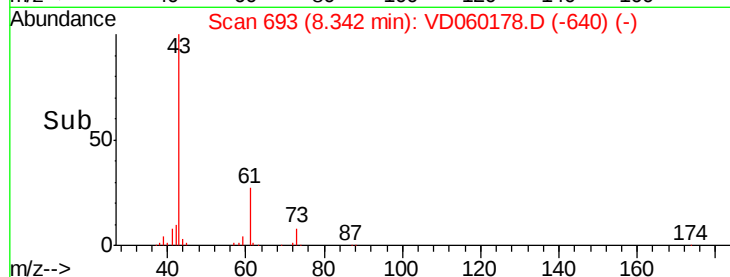
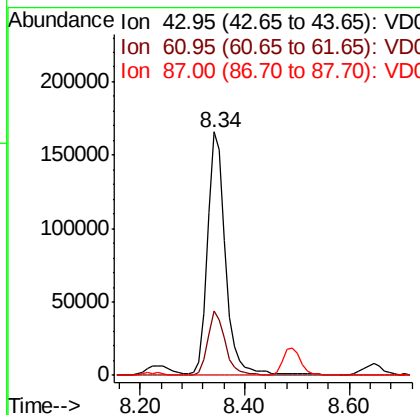
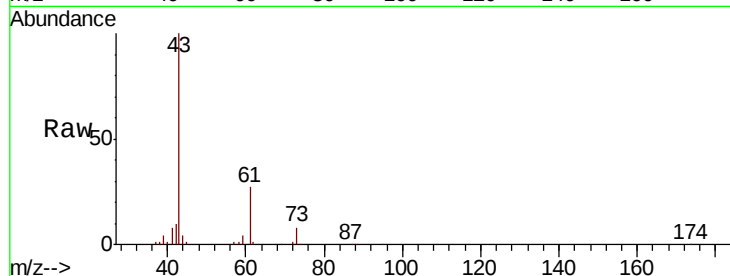
Isopropyl Acetate
 Concen: 21.070 ug/l
 RT: 8.34 min Scan# 693
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1024SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.6	21.4	32.2
87	0.2	0.2	0.2

Manual Integrations
 APPROVED

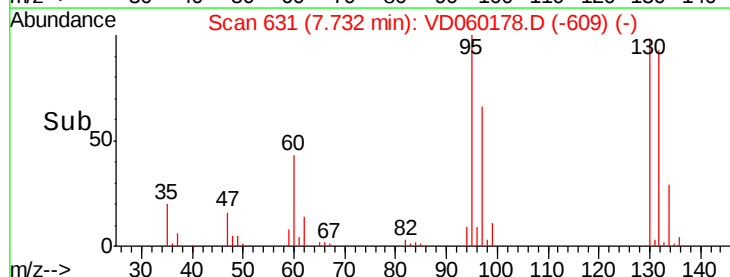
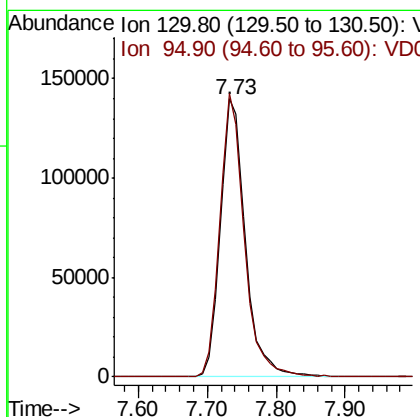
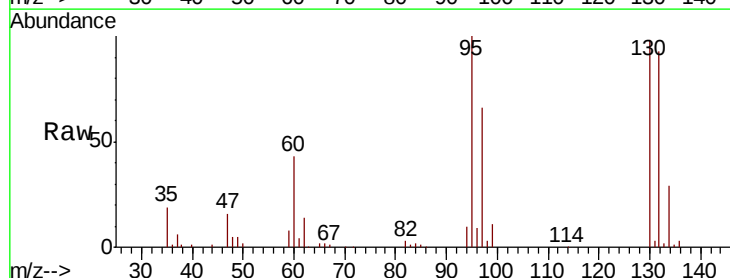
apatel
 10/25/2018 4:49:49 PM

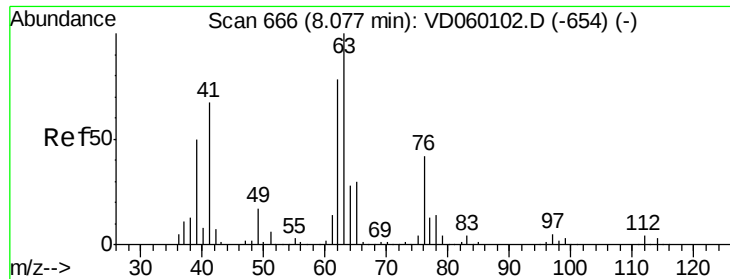


#44

Trichloroethene
 Concen: 20.129 ug/l
 RT: 7.73 min Scan# 631
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	202.2





#45

1,2-Dichloropropane

Concen: 20.521 ug/l

RT: 8.10 min Scan# 668

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBSD01

Tot Ion: 63 Resp: 301139

Ion Ratio Lower Upper

63 100

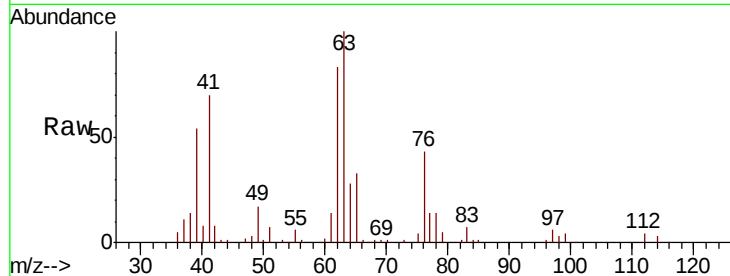
65 33.0 24.1 36.1

Manual Integrations

APPROVED

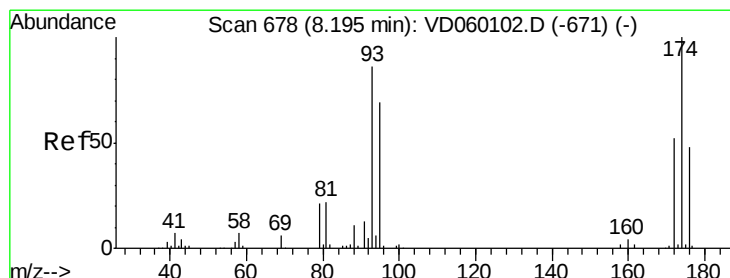
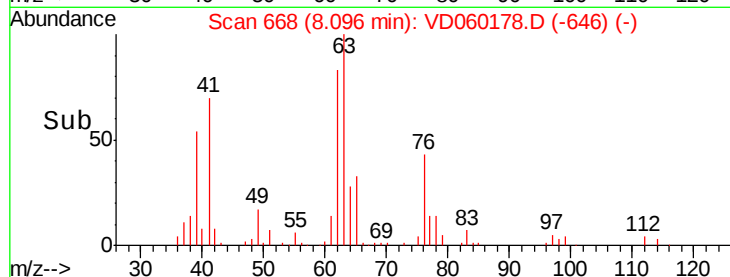
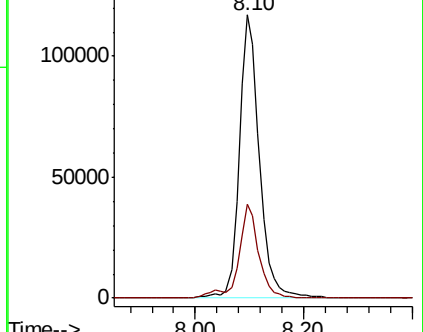
apatel

10/25/2018 4:49:49 PM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.593 ug/l

RT: 8.21 min Scan# 680

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

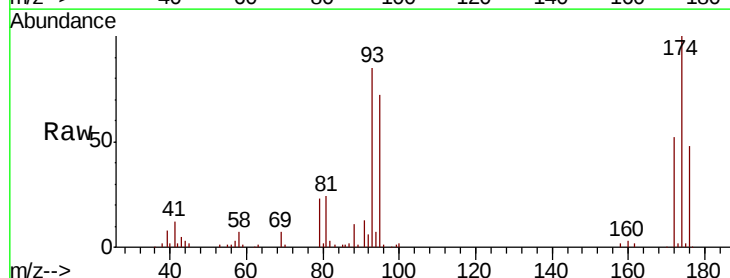
Tgt Ion: 93 Resp: 195644

Ion Ratio Lower Upper

93 100

95 84.5 63.8 95.6

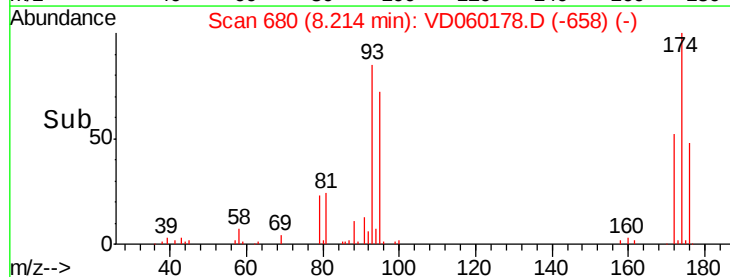
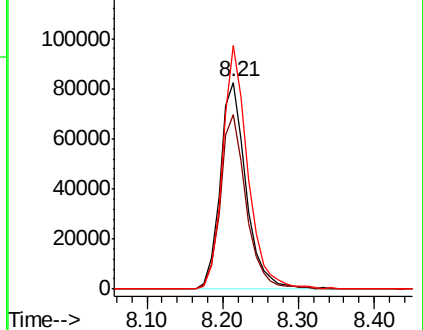
174 117.8 92.9 139.3

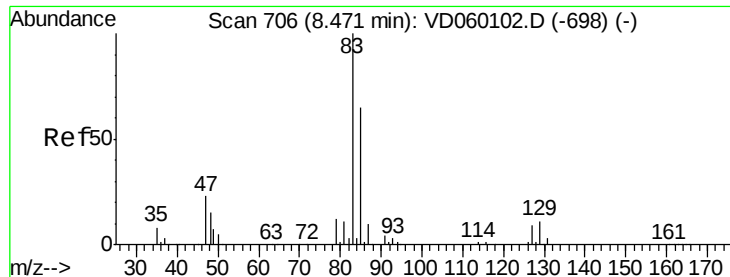


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 21.477 ug/l

RT: 8.49 min Scan# 708

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

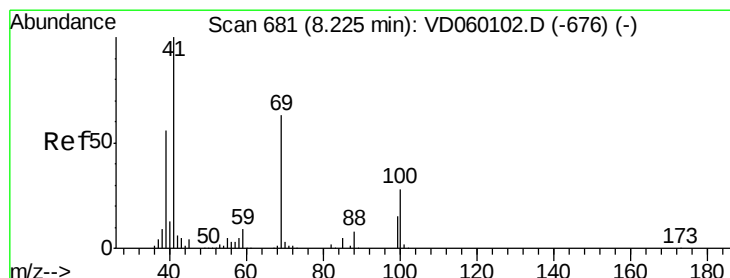
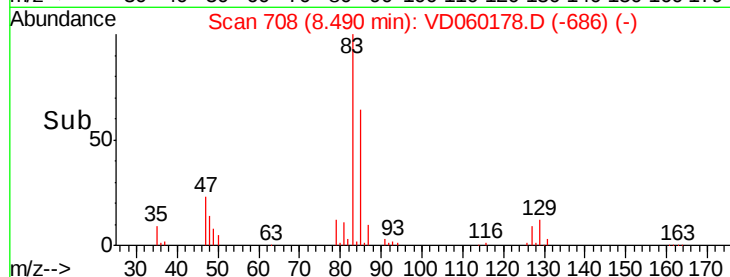
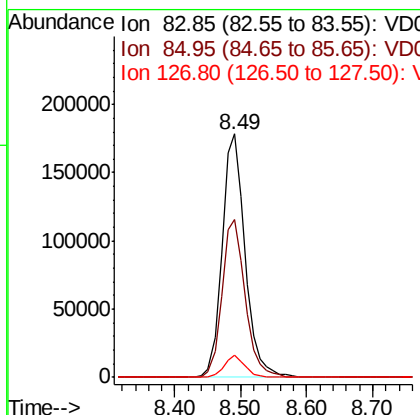
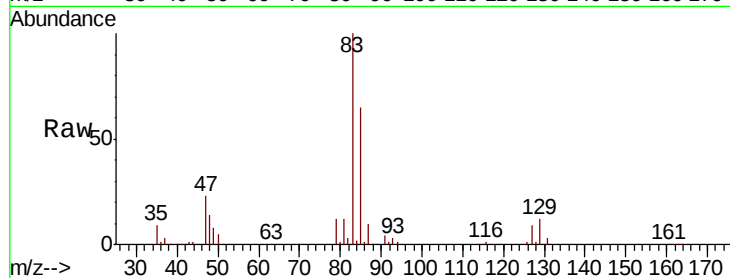
ClientSampleId :

VD1024SBSD01

Tot Ion:	83	Resp:	434764
Ion Ratio	Lower	Upper	
83	100		
85	64.9	52.2	78.2
127	9.2	7.4	11.0

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#48

Methyl methacrylate

Concen: 20.635 ug/l

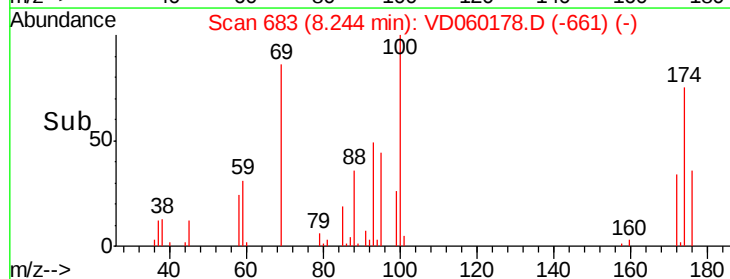
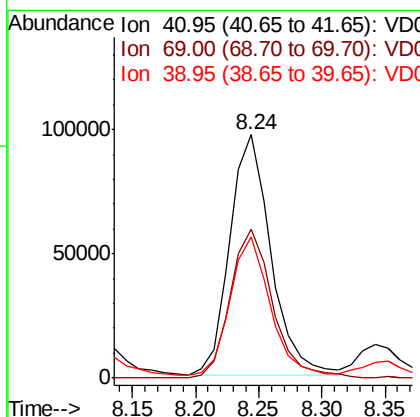
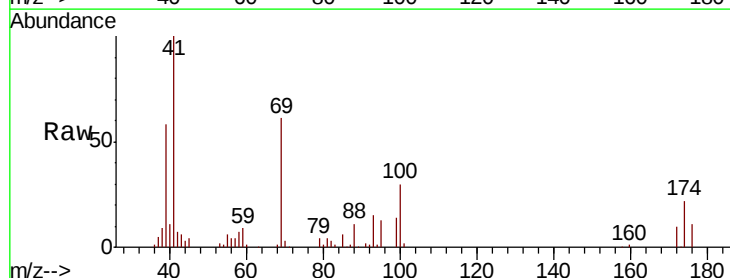
RT: 8.24 min Scan# 683

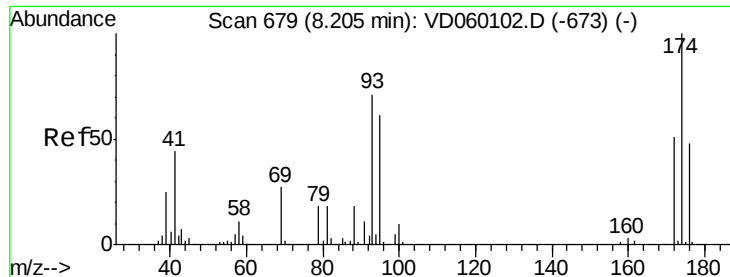
Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	41	Resp:	219878
Ion Ratio	Lower	Upper	
41	100		
69	61.1	49.7	74.5
39	58.1	45.2	67.8





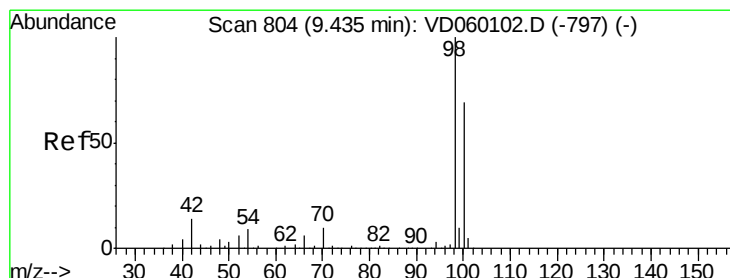
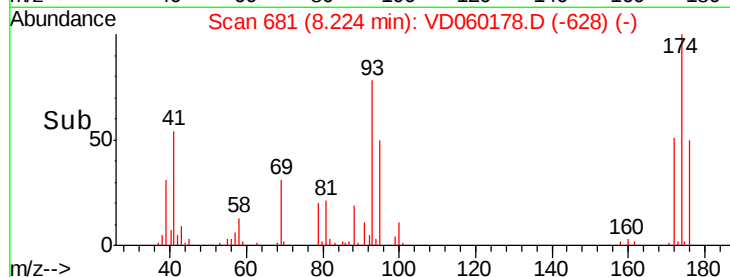
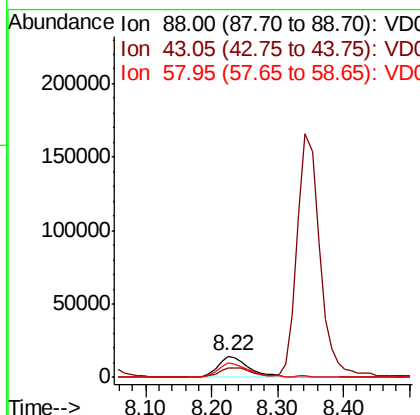
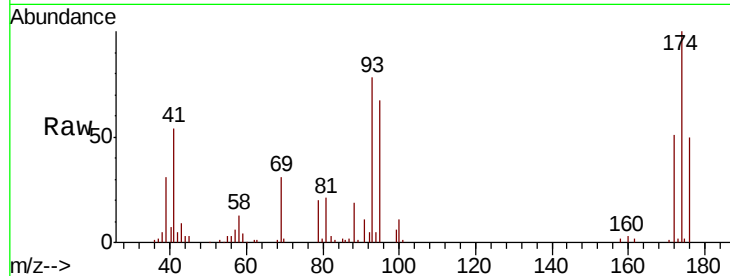
#49
1,4-Dioxane
Concen: 450.229 ug/l
RT: 8.22 min Scan# 681
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion	88	Resp	47203
Ion Ratio	100	Lower	Upper
43	47.3	33.7	50.5
58	70.3	49.1	73.7

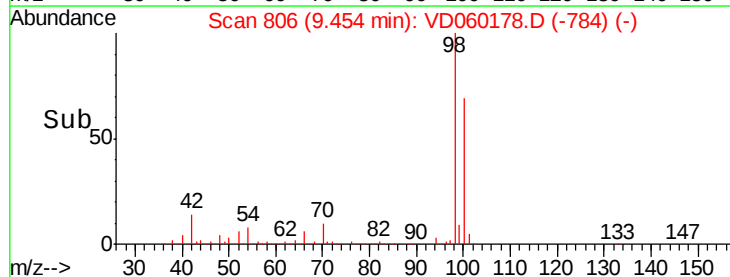
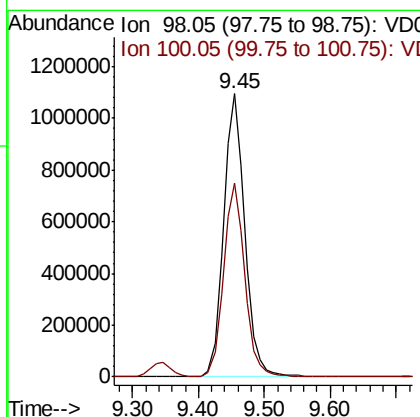
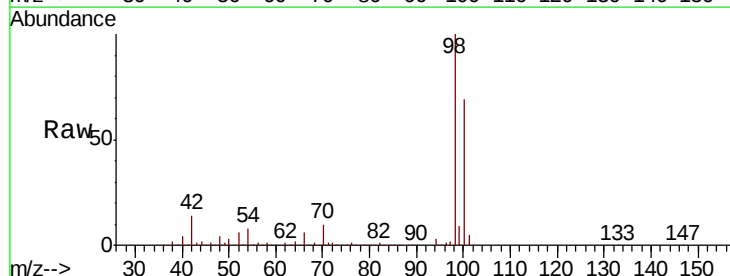
Manual Integrations
APPROVED

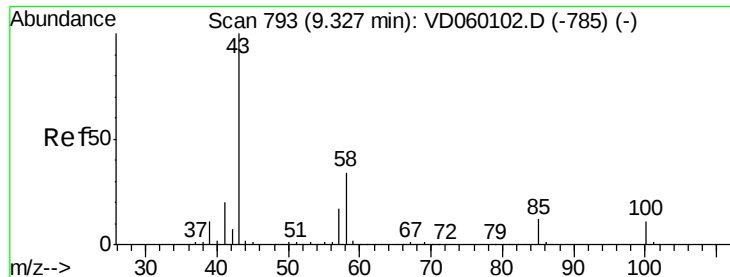
apatel
10/25/2018 4:49:49 PM



#50
Toluene-d8
Concen: 450.229 ug/l
RT: 9.45 min Scan# 806
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	98	Resp	2460416
Ion Ratio	100	Lower	Upper
98	100	55.4	83.0
100	68.6	55.4	83.0





#51

4-Methyl-2-Pentanone

Concen: 106.404 ug/l

RT: 9.34 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 43 Resp: 1255443

Ion Ratio Lower Upper

43 100

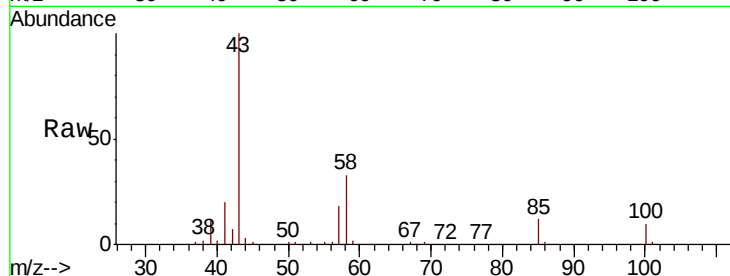
58 32.6 27.2 40.8

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

600000

500000

400000

300000

200000

100000

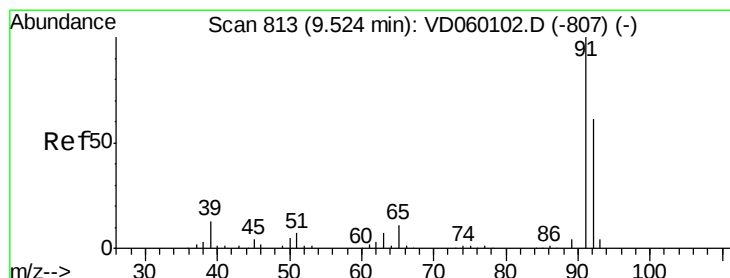
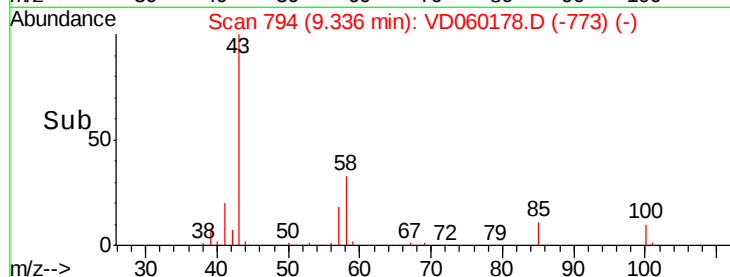
0

9.30

9.34

9.40

Time-->



#52

Toluene

Concen: 21.165 ug/l

RT: 9.54 min Scan# 815

Delta R.T. 0.02 min

Lab File: VD060178.D

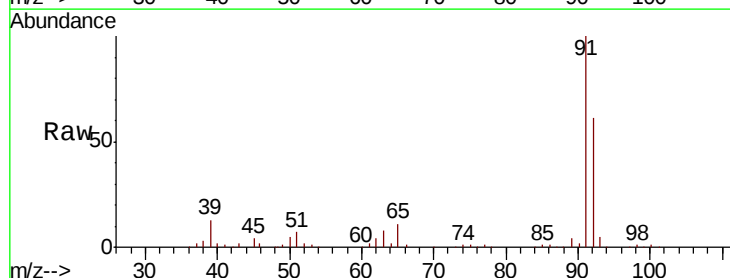
Acq: 24 Oct 2018 13:29

Tgt Ion: 92 Resp: 763928

Ion Ratio Lower Upper

92 100

91 164.0 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

300000

200000

100000

0

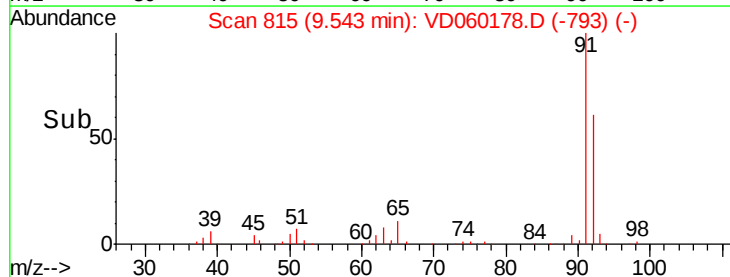
9.40

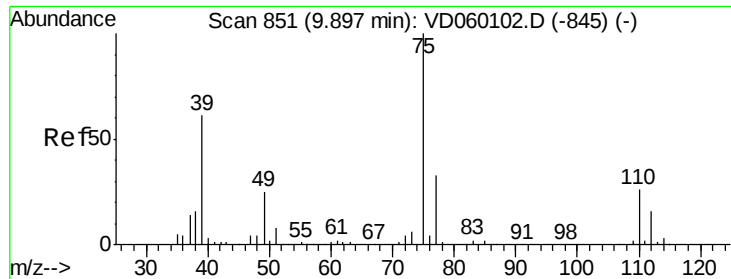
9.54

9.60

9.70

Time-->





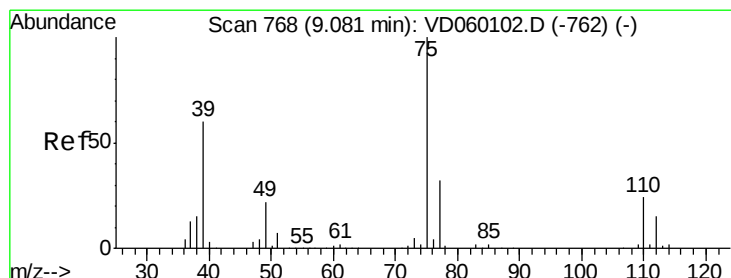
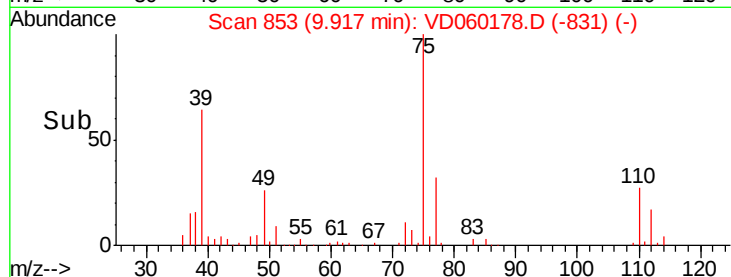
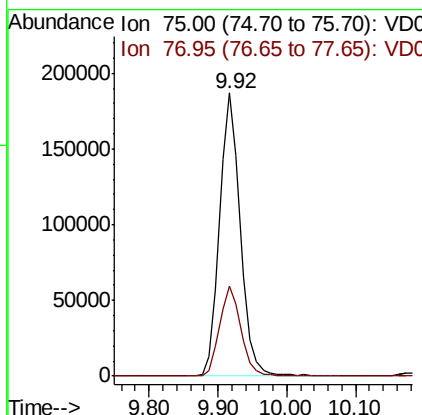
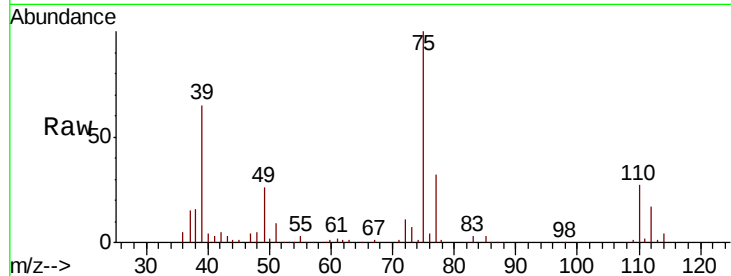
#53
 t-1,3-Dichloropropene
 Concen: 21.247 ug/l
 RT: 9.92 min Scan# 853
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBSD01

Tot Ion: 75 Resp: 389176
 Ion Ratio Lower Upper
 75 100
 77 31.8 26.2 39.2

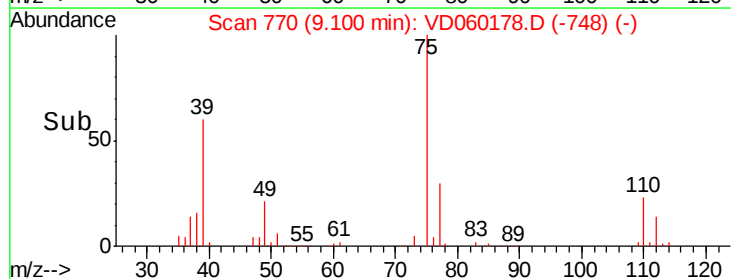
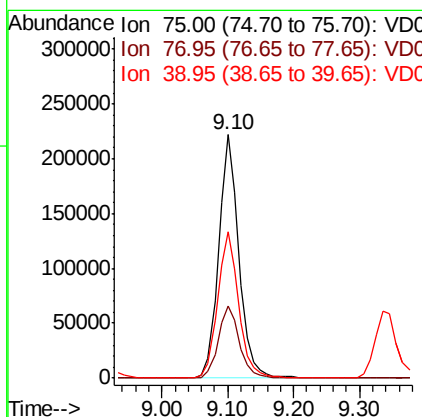
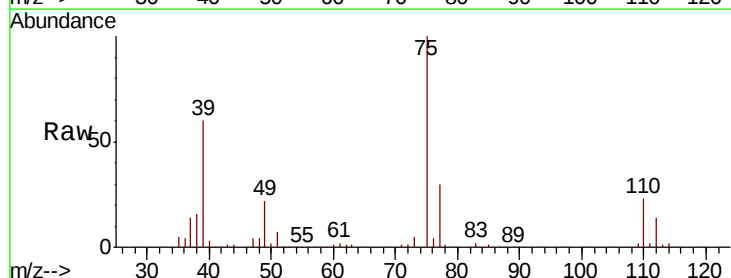
Manual Integrations
 APPROVED

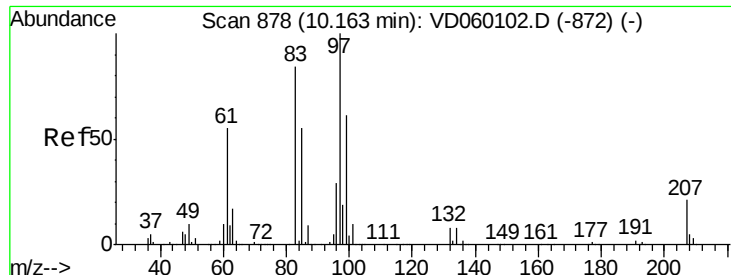
apatel
 10/25/2018 4:49:49 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.871 ug/l
 RT: 9.10 min Scan# 770
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion: 75 Resp: 472058
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.7 38.5
 39 60.1 48.2 72.4





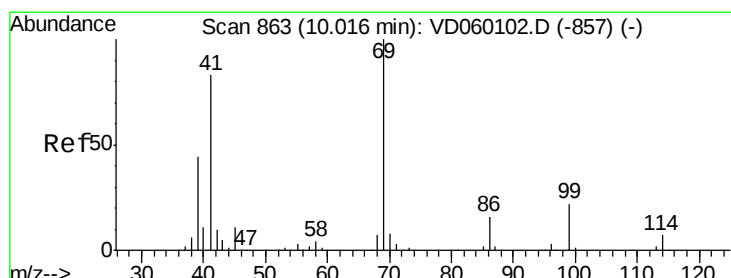
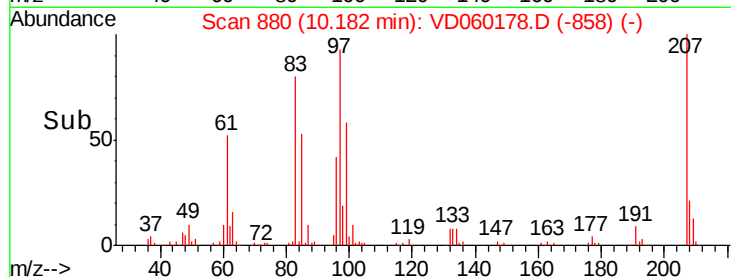
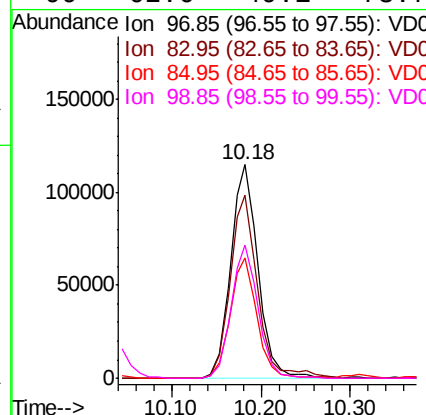
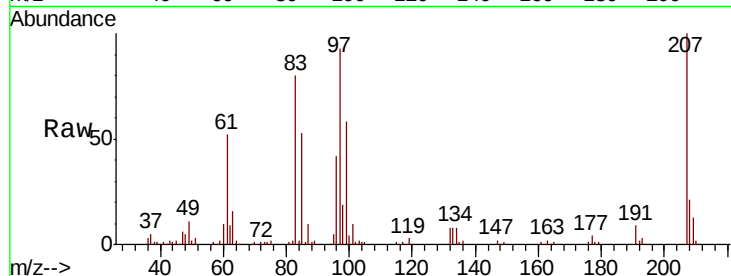
#55
 1,1,2-Trichloroethane
 Concen: 20.993 ug/l
 RT: 10.18 min Scan# 880
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		247702		
83	86.0	67.0	100.6		
85	56.5	43.9	65.9		
99	62.6	49.1	73.7		

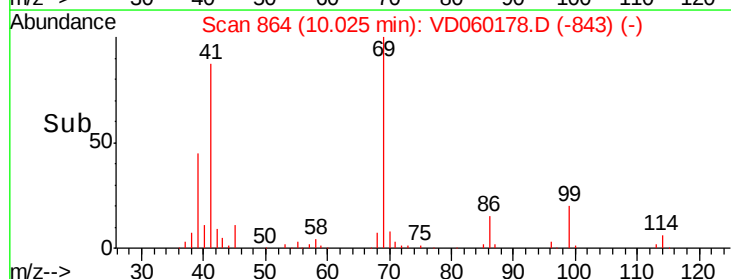
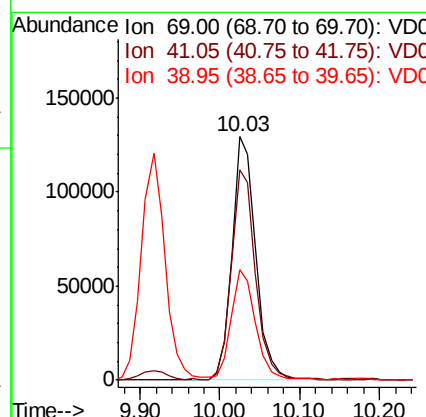
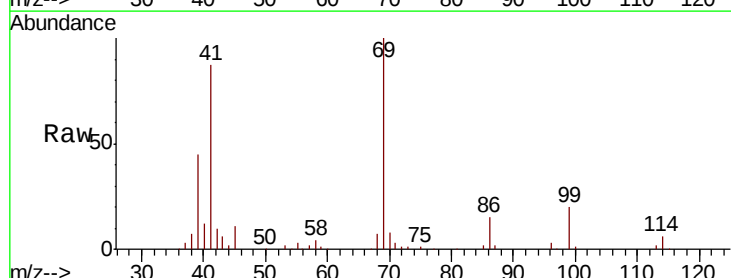
Manual Integrations
 APPROVED

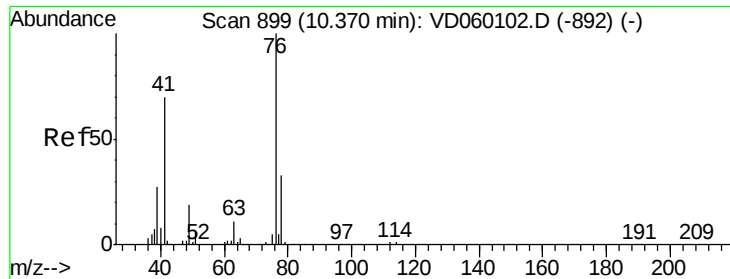
apatel
 10/25/2018 4:49:49 PM



#56
 Ethyl methacrylate
 Concen: 20.771 ug/l
 RT: 10.03 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		270538		
41	86.5	66.6	100.0		
39	45.3	36.0	54.0		





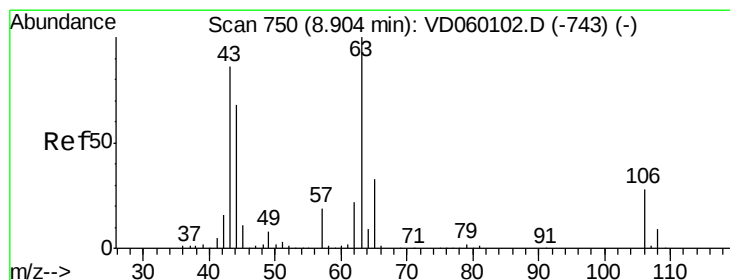
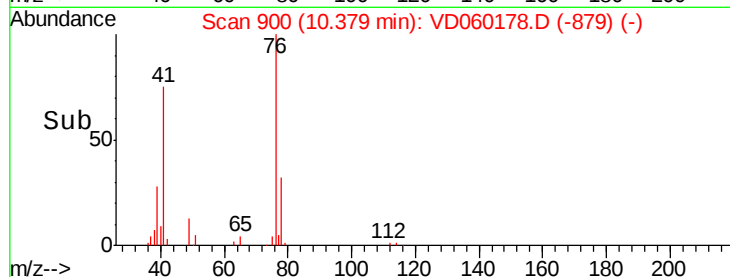
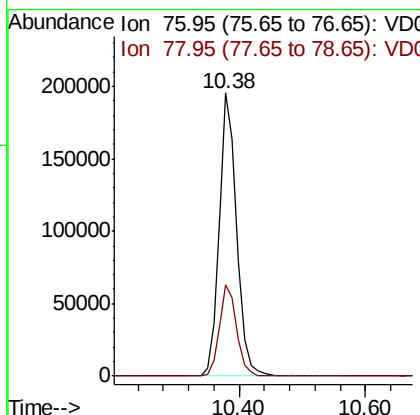
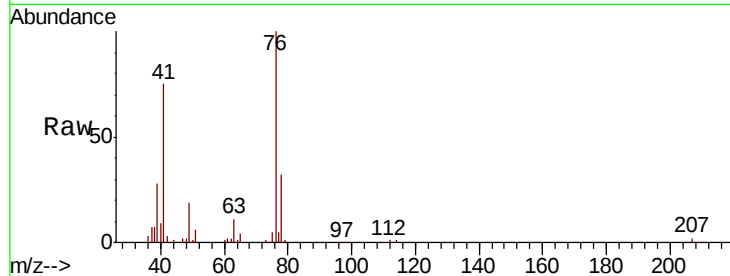
#57
 1,3-Dichloropropane
 Concen: 21.154 ug/l
 RT: 10.38 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBSD01

Tot Ion: 76 Resp: 380690
 Ion Ratio Lower Upper
 76 100
 78 32.4 26.2 39.2

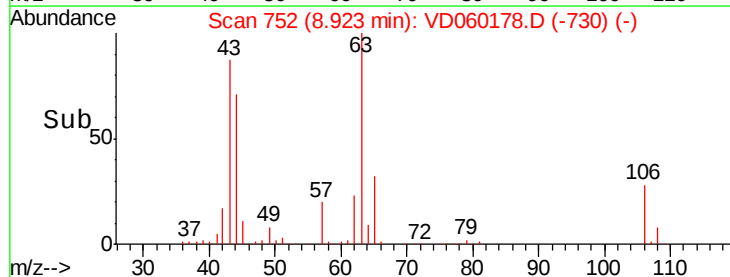
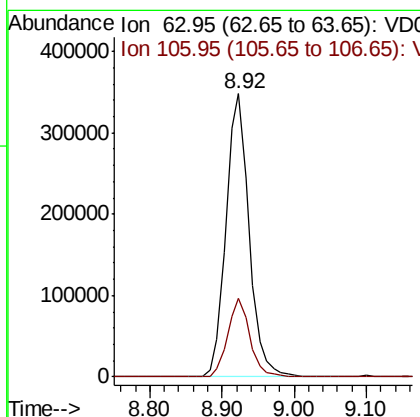
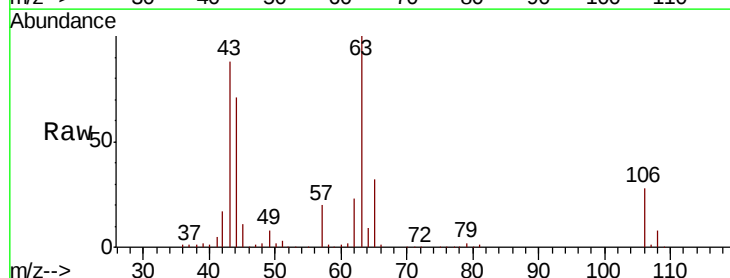
Manual Integrations
 APPROVED

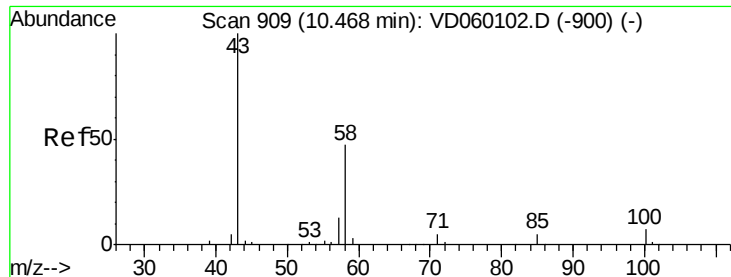
apatel
 10/25/2018 4:49:49 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 106.985 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion: 63 Resp: 773807
 Ion Ratio Lower Upper
 63 100
 106 27.8 22.6 34.0





#59

2-Hexanone

Concen: 120.379 ug/l

RT: 10.49 min Scan# 911

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 43 Resp: 1021328

Ion Ratio Lower Upper

43 100

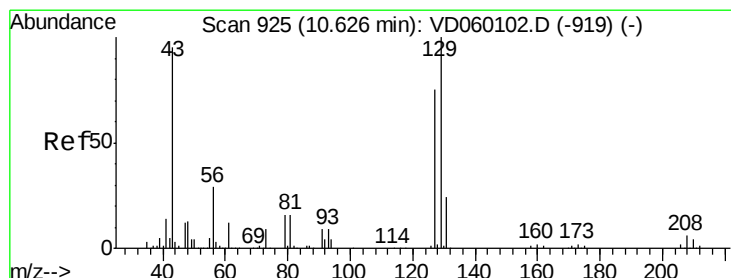
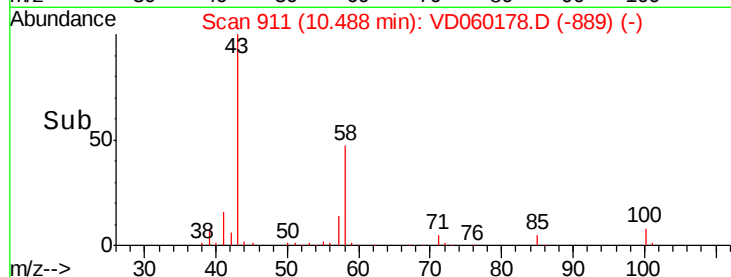
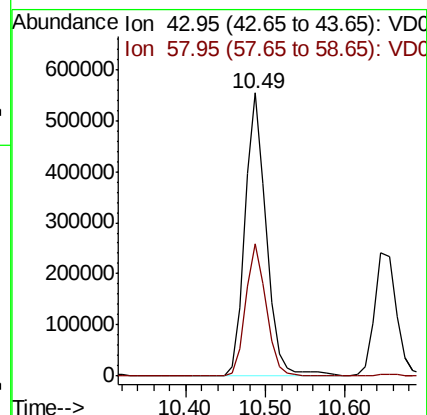
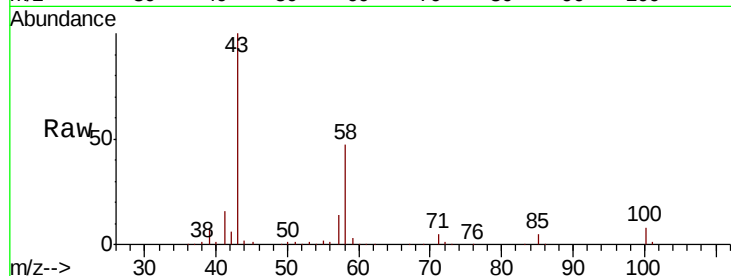
58 46.7 23.3 69.9

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



#60

Dibromochloromethane

Concen: 22.109 ug/l

RT: 10.64 min Scan# 926

Delta R.T. 0.01 min

Lab File: VD060178.D

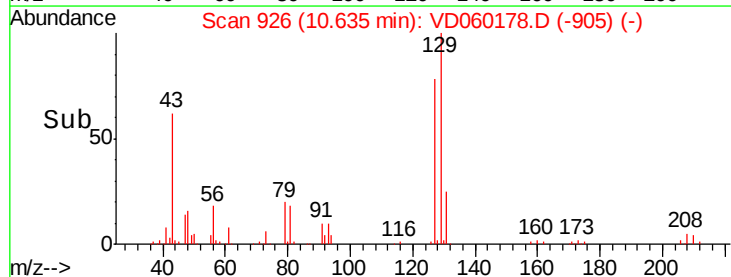
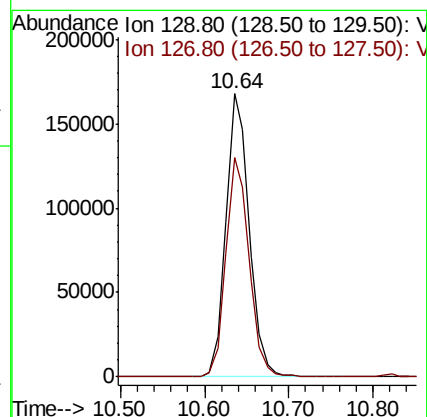
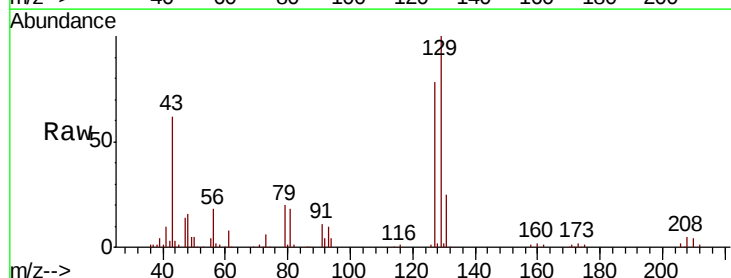
Acq: 24 Oct 2018 13:29

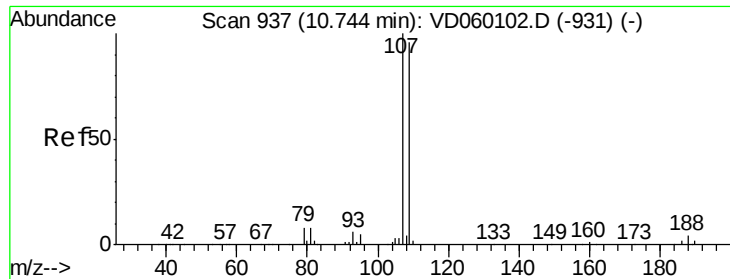
Tgt Ion: 129 Resp: 320070

Ion Ratio Lower Upper

129 100

127 77.6 37.4 112.2





#61

1,2-Dibromoethane

Concen: 21.532 ug/l

RT: 10.75 min Scan# 938

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion:107 Resp: 269949

Ion Ratio Lower Upper

107 100

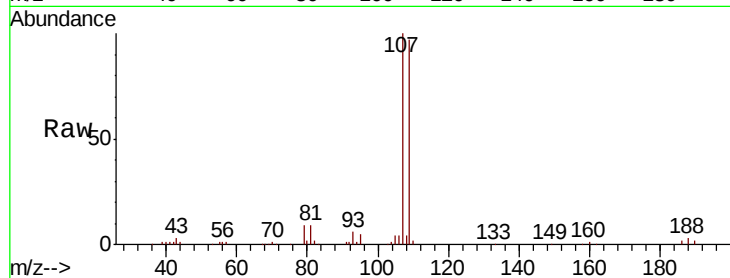
109 96.7 77.1 115.7

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.75

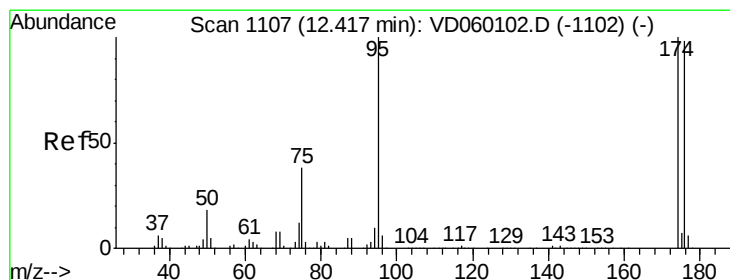
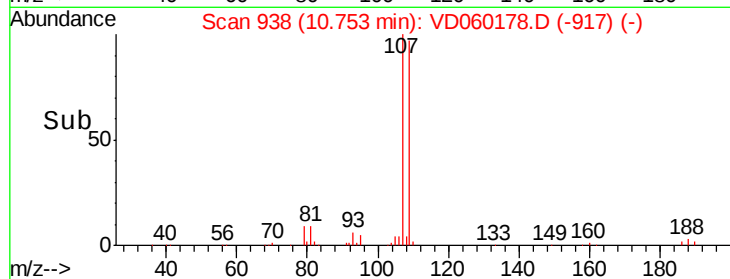
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 21.532 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

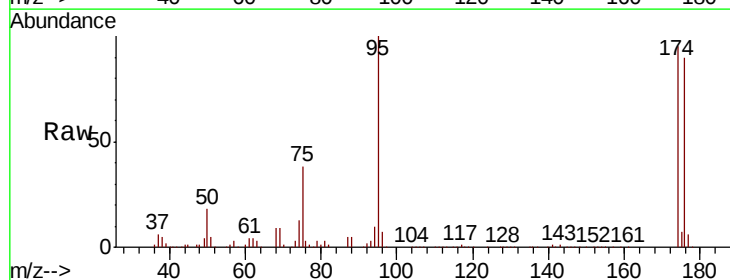
Tgt Ion: 95 Resp: 1073497

Ion Ratio Lower Upper

95 100

174 95.2 0.0 200.2

176 90.4 0.0 195.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.43

1000000

800000

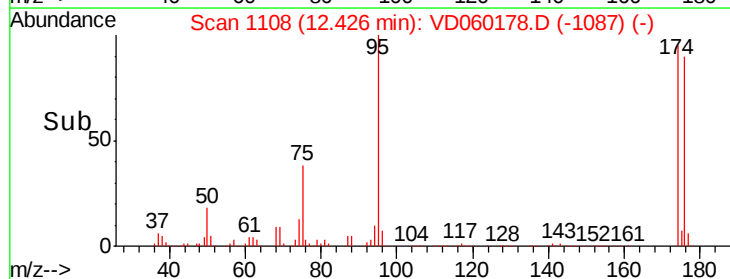
600000

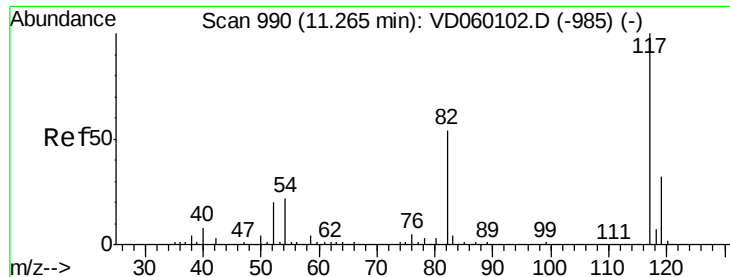
400000

200000

0

Time-->





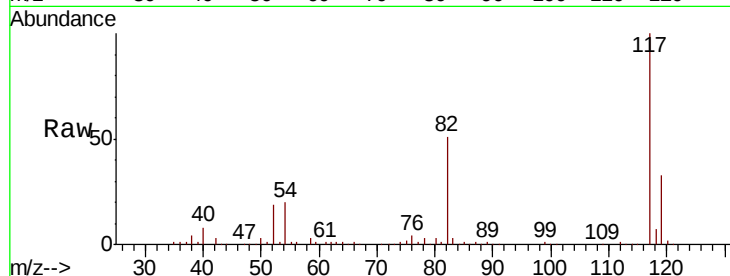
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.5	43.4	65.2
119	33.2	26.0	39.0

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM

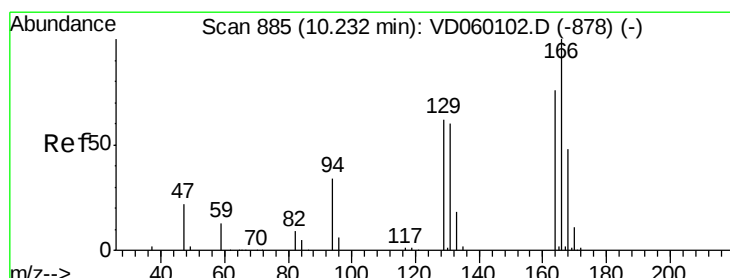
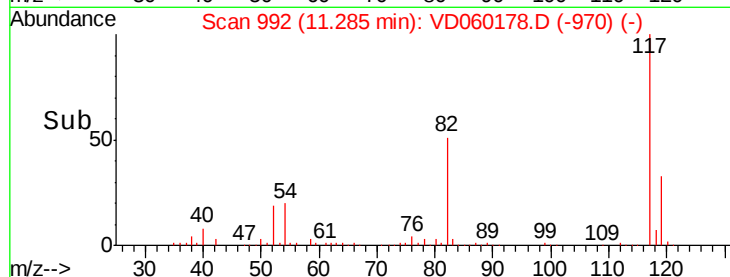
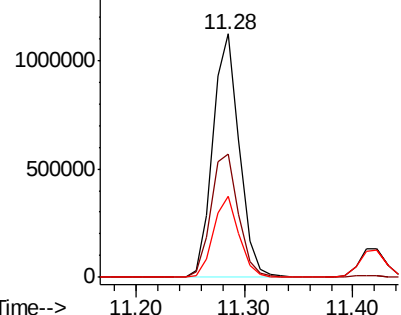


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 19.588 ug/l
RT: 10.25 min Scan# 887
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	105.4	158.0
129	80.5	65.7	98.5
131	76.8	62.9	94.3

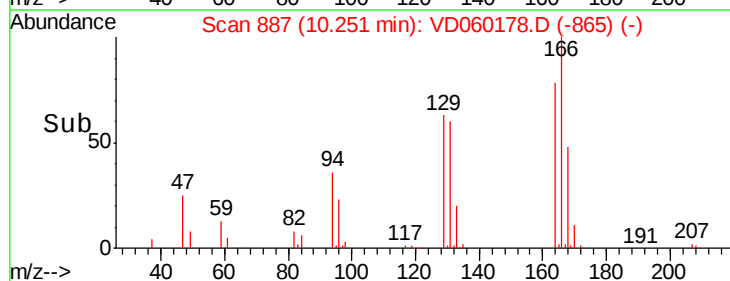
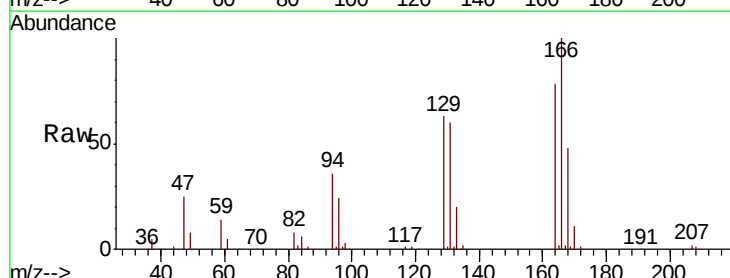
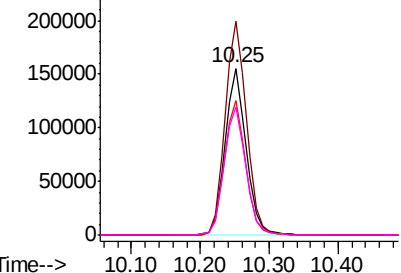
Abundance

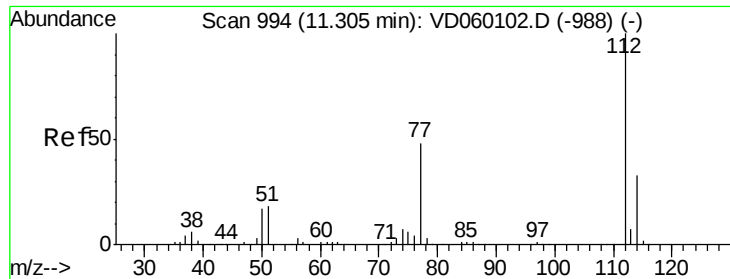
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





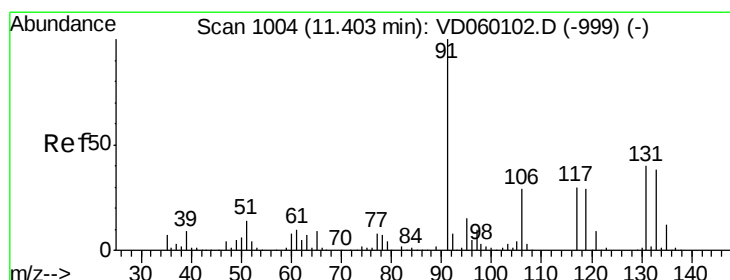
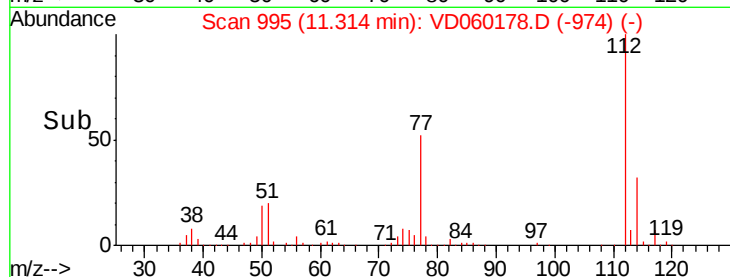
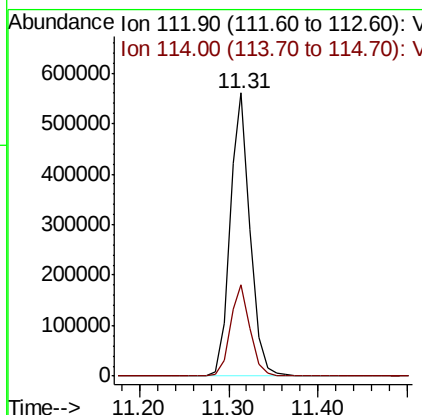
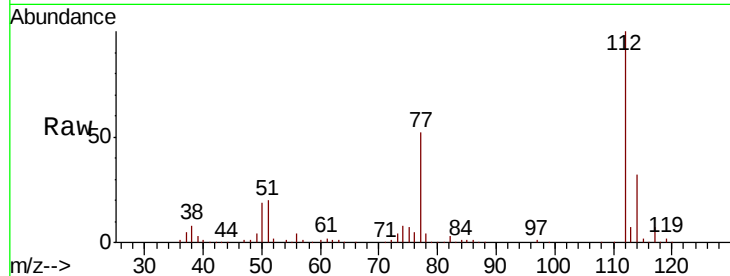
#65
Chlorobenzene
Concen: 21.380 ug/l
RT: 11.31 min Scan# 995
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion:112 Resp: 883688
Ion Ratio Lower Upper
112 100
114 32.2 26.0 39.0

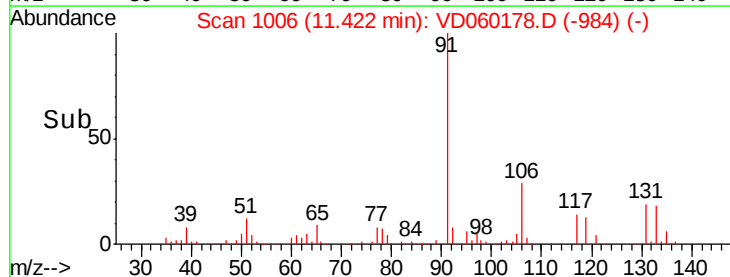
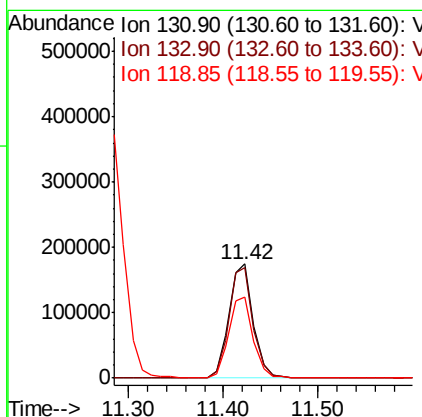
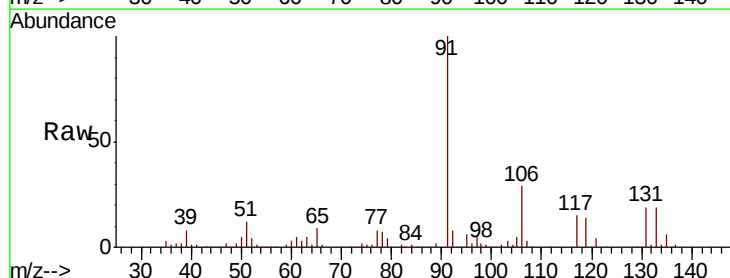
Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.313 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.02 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion:131 Resp: 307659
Ion Ratio Lower Upper
131 100
133 97.4 47.4 142.3
119 71.0 36.1 108.3





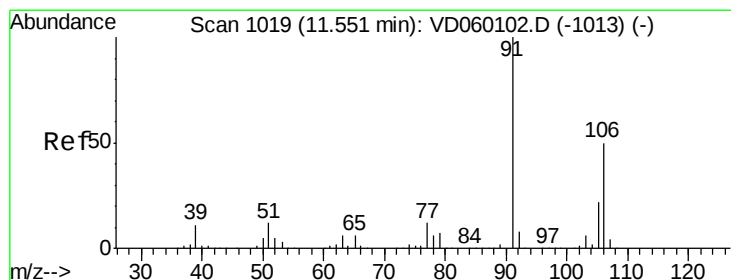
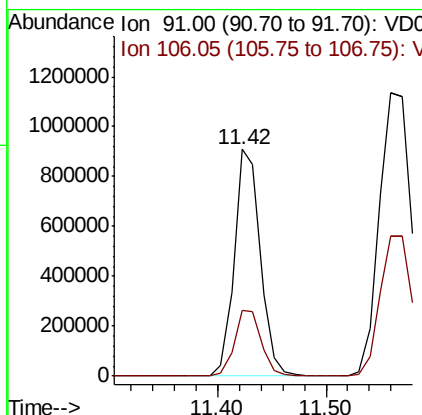
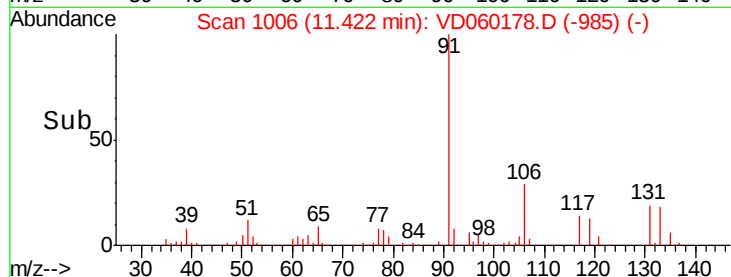
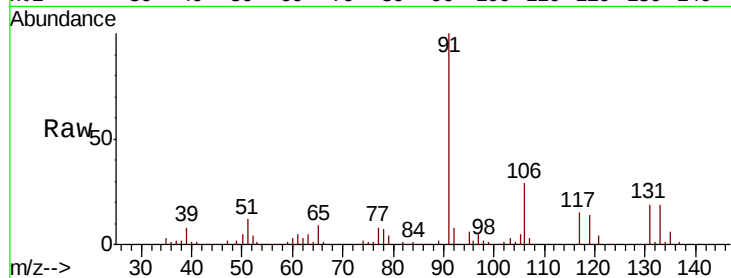
#67
Ethyl Benzene
Concen: 22.652 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBS01

Tot Ion: 91 Resp: 1516870
Ion Ratio Lower Upper
91 100
106 29.3 24.4 36.6

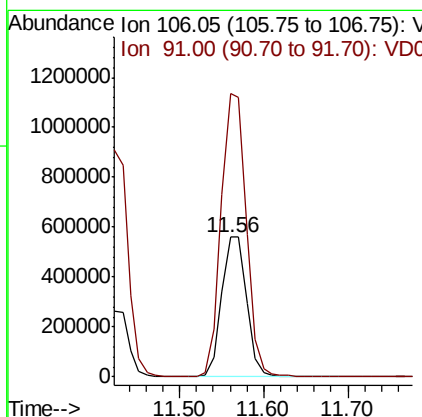
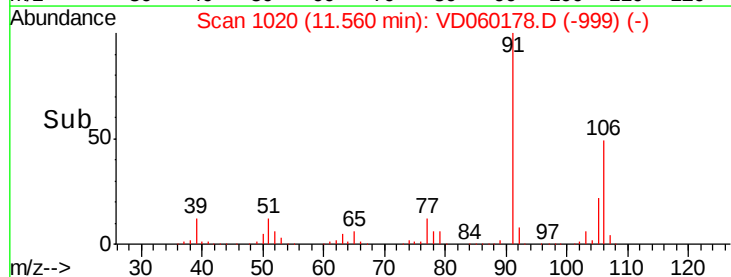
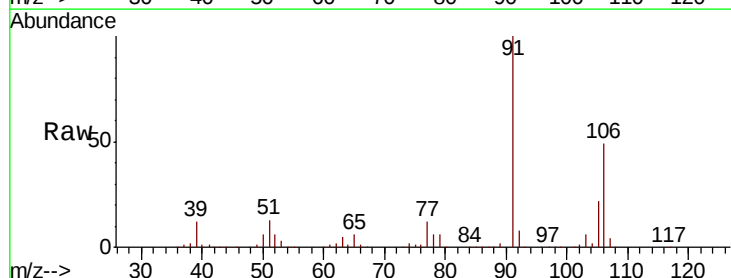
Manual Integrations
APPROVED

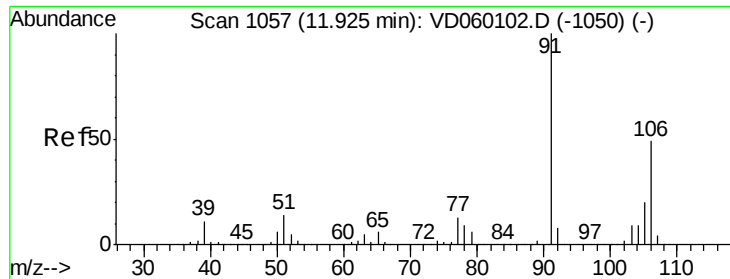
apatel
10/25/2018 4:49:49 PM



#68
m/p-Xylenes
Concen: 45.820 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion: 106 Resp: 1146432
Ion Ratio Lower Upper
106 100
91 202.9 160.0 240.0





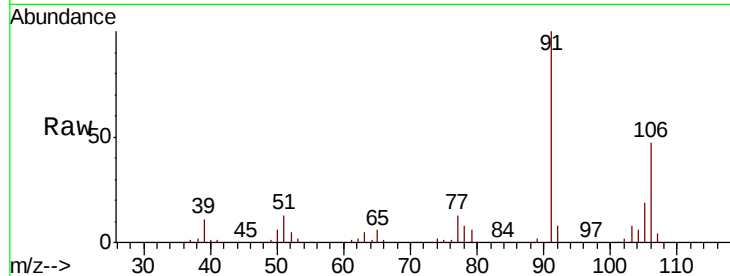
#69
o-Xylene
Concen: 22.457 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

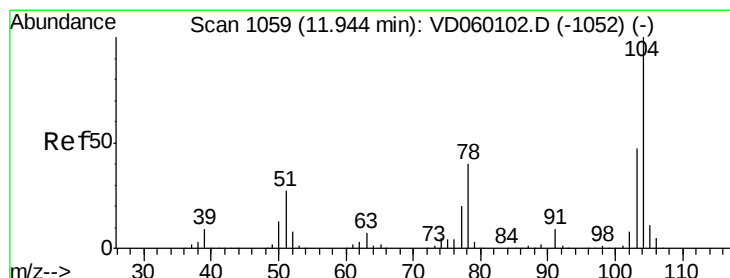
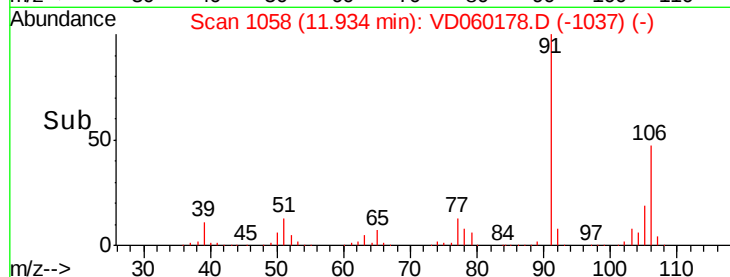
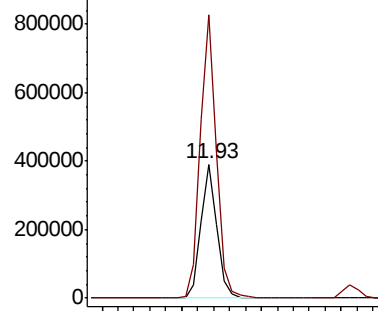
Tot Ion:106 Resp: 555770
Ion Ratio Lower Upper
106 100
91 211.8 102.5 307.5

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM

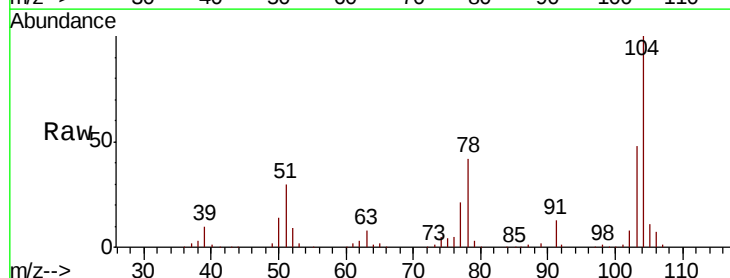


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

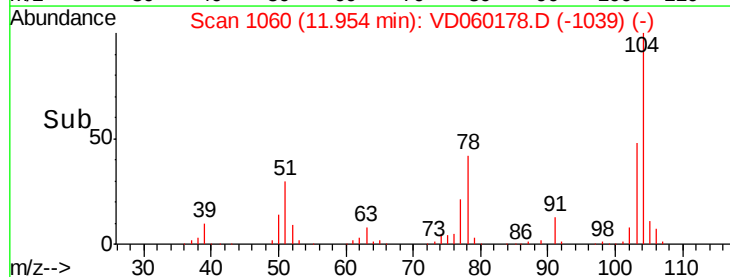
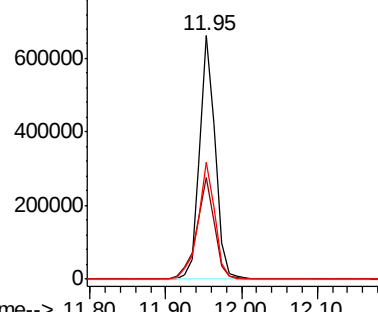


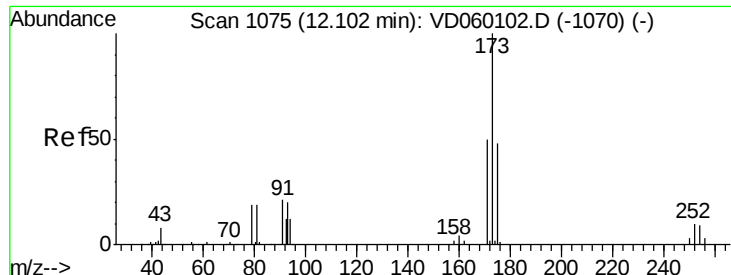
#70
Styrene
Concen: 22.765 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion:104 Resp: 942160
Ion Ratio Lower Upper
104 100
78 41.6 32.2 48.4
103 47.9 37.4 56.0



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





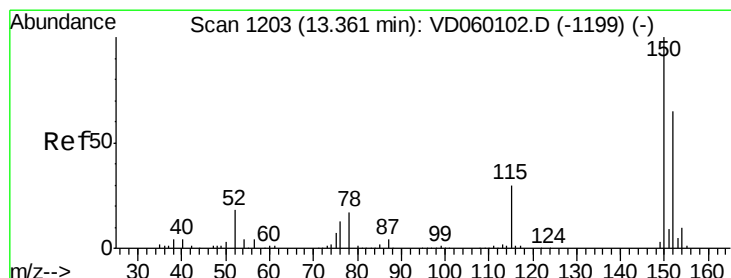
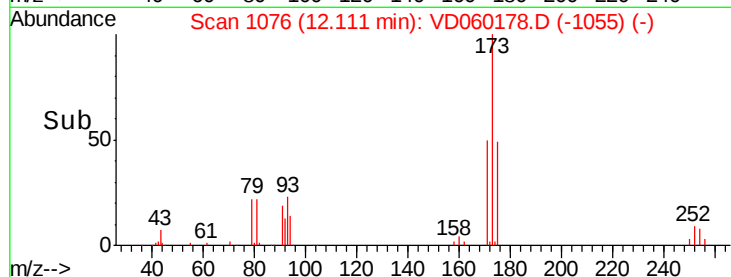
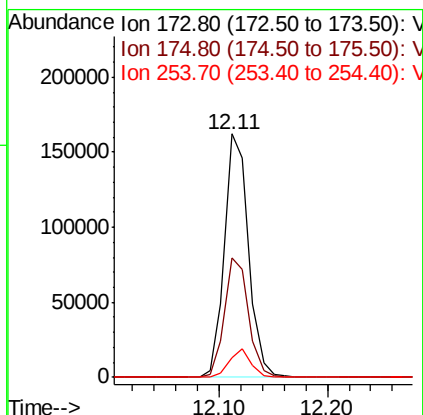
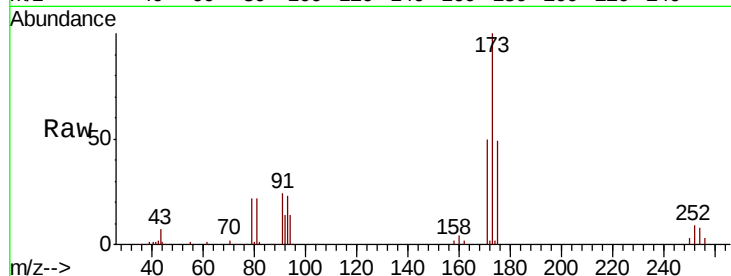
#71
Bromoform
Concen: 22.501 ug/l
RT: 12.11 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.4
254	8.2	7.4	11.0

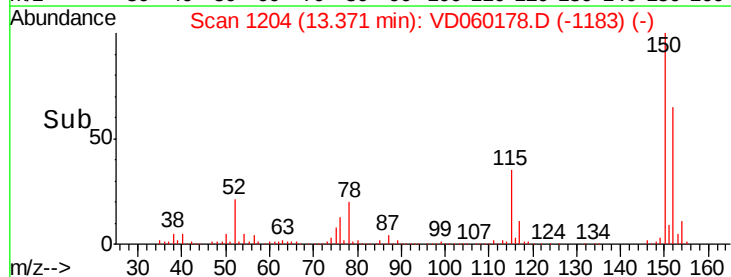
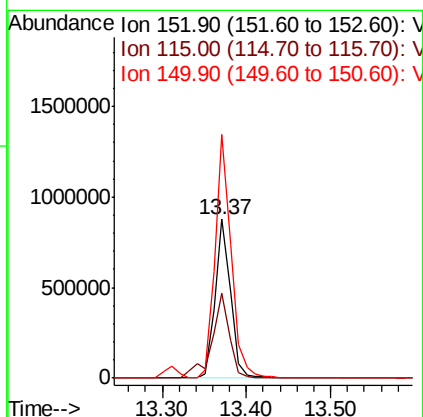
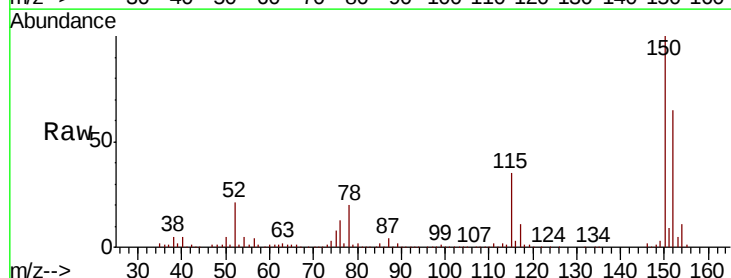
Manual Integrations
APPROVED

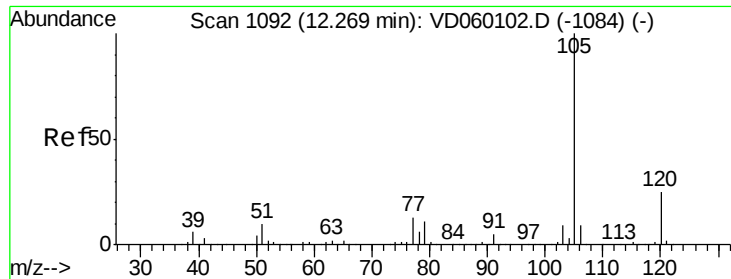
apatel
10/25/2018 4:49:49 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.6	27.1	81.2
150	153.5	0.0	311.8





#73

Isopropylbenzene

Concen: 21.580 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion:105 Resp: 1587148

Ion Ratio Lower Upper

105 100

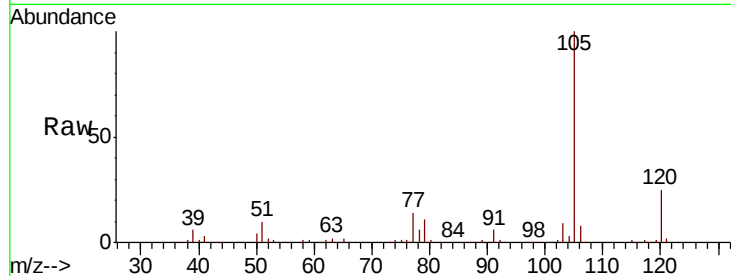
120 25.0 12.6 37.6

Manual Integrations

APPROVED

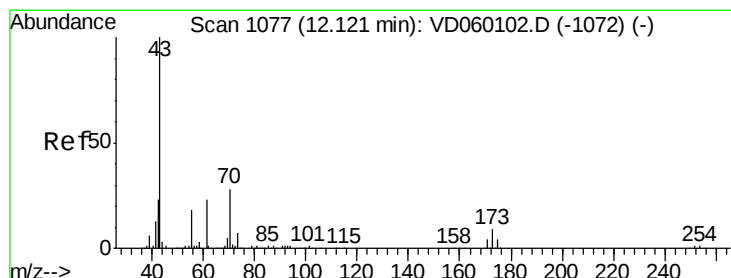
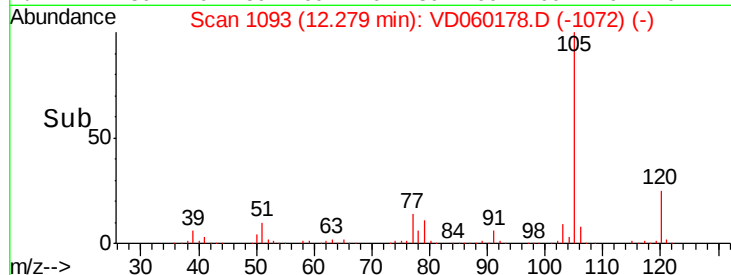
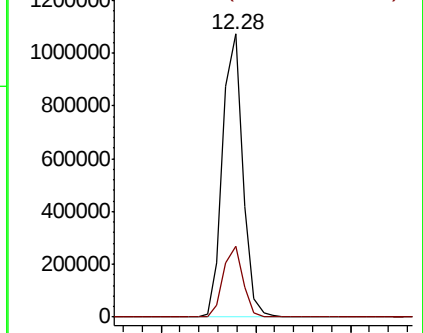
apatel

10/25/2018 4:49:49 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.205 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion: 43 Resp: 571239

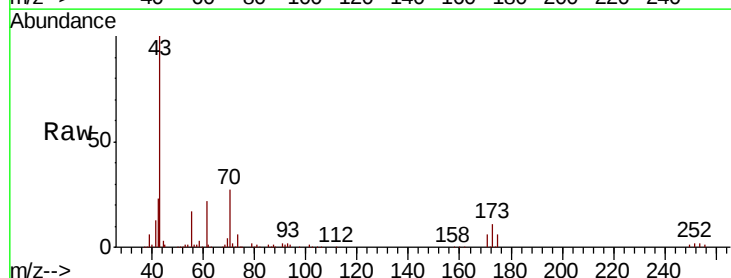
Ion Ratio Lower Upper

43 100

70 26.8 22.1 33.1

55 17.2 14.1 21.1

61 22.5 18.4 27.6

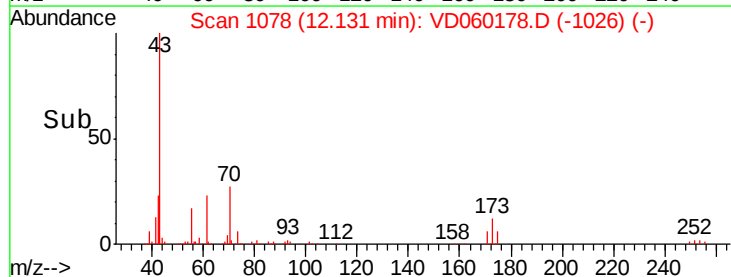
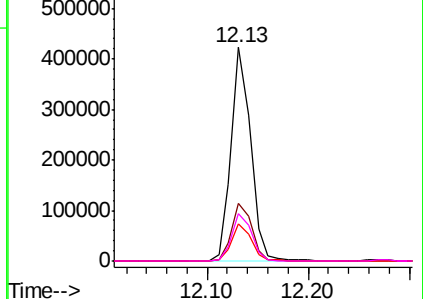


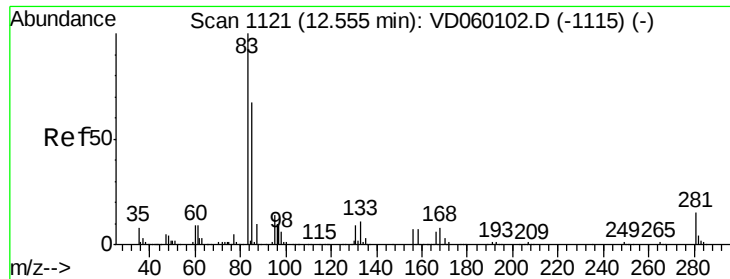
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.144 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBSD01

Tot Ion: 83 Resp: 339494

Ion Ratio Lower Upper

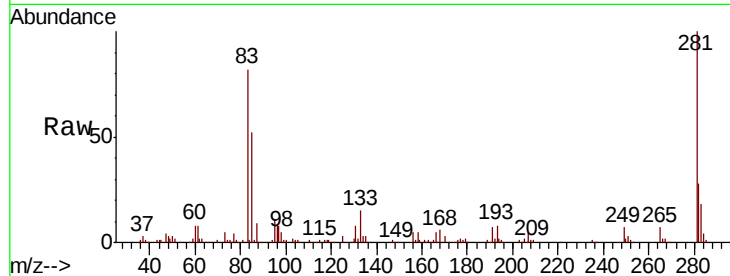
83 100

131 9.4 4.5 13.4

85 63.6 33.3 99.9

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

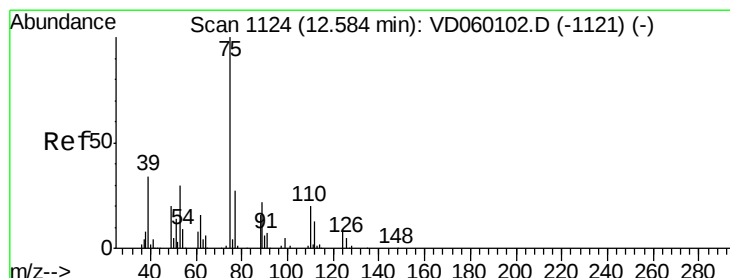
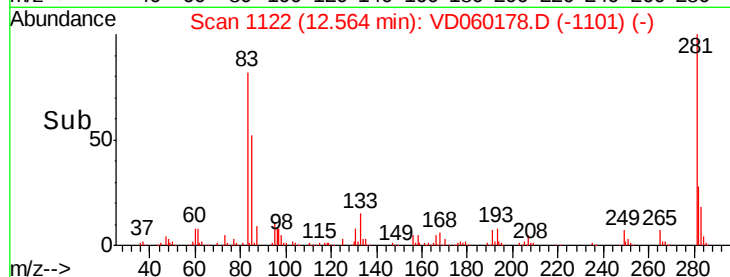
12.56

200000

100000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 21.671 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VD060178.D

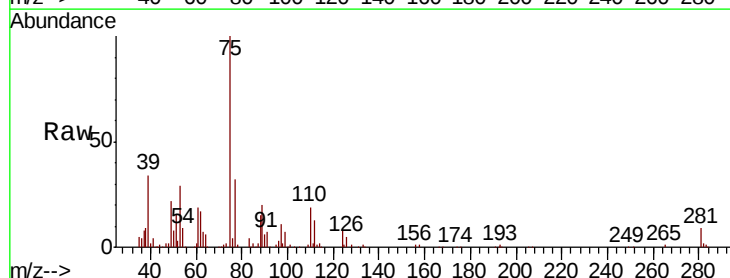
Acq: 24 Oct 2018 13:29

Tgt Ion: 75 Resp: 347919

Ion Ratio Lower Upper

75 100

77 31.6 16.3 48.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

400000

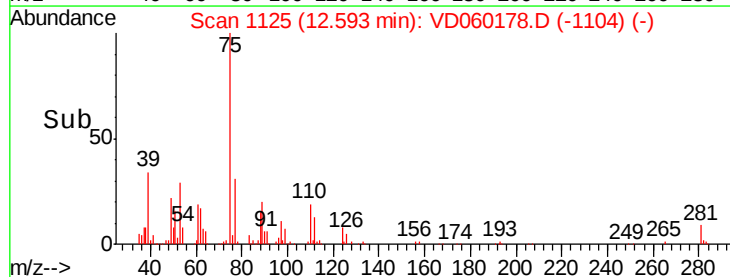
300000

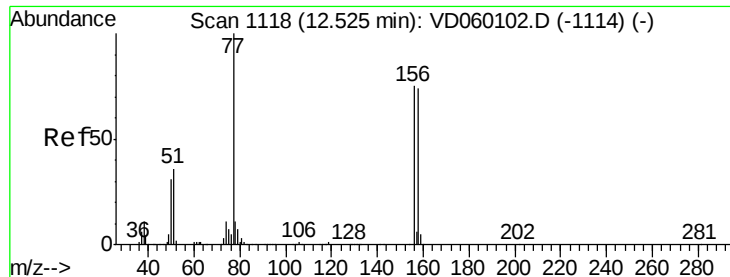
200000

100000

0

Time-->





#77

Bromobenzene

Concen: 20.142 ug/l

RT: 12.54 min Scan# 1120

Delta R.T. 0.02 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

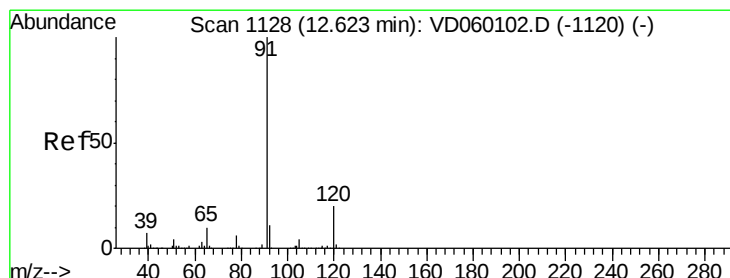
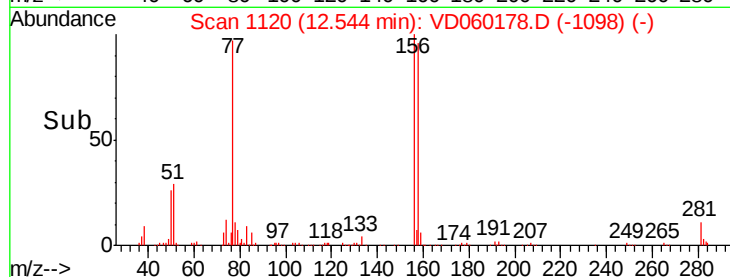
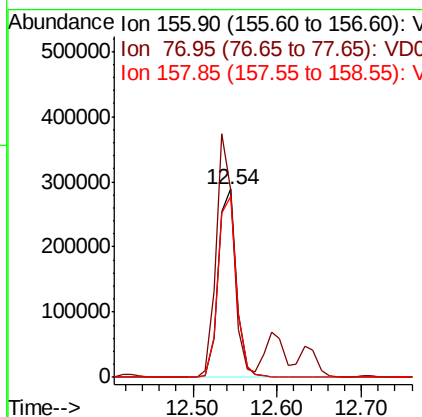
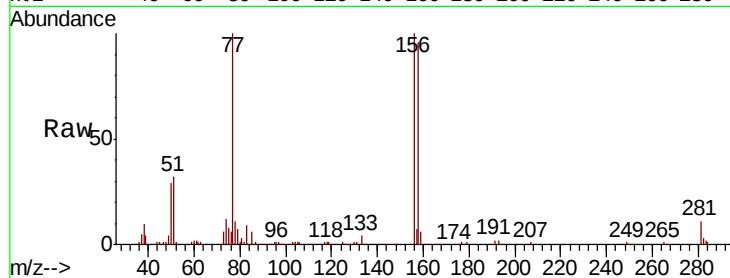
ClientSampleId :

VD1024SBSD01

Tot Ion:	156	Resp:	430467
Ion Ratio	Lower	Upper	
156	100		
77	99.6	66.9	200.7
158	96.2	49.1	147.4

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#78

n-propylbenzene

Concen: 22.731 ug/l

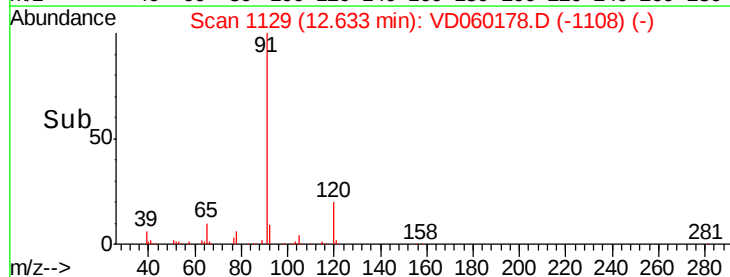
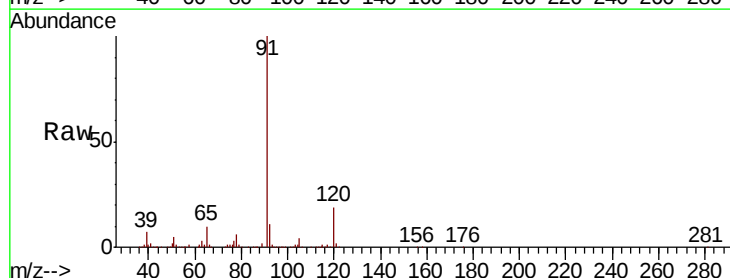
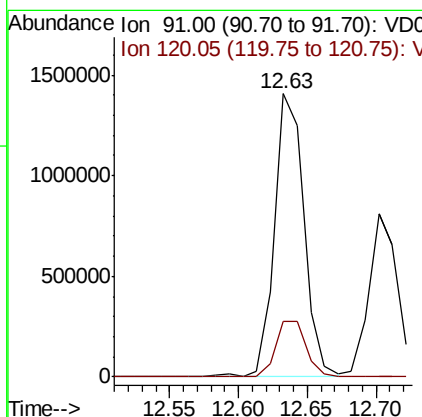
RT: 12.63 min Scan# 1129

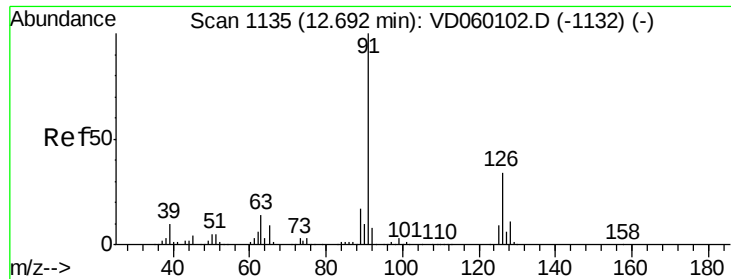
Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	91	Resp:	2075819
Ion Ratio	Lower	Upper	
91	100		
120	19.5	10.0	30.0





#79

2-Chlorotoluene

Concen: 22.747 ug/l

RT: 12.70 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleId :

VD1024SBS01

Tot Ion: 91 Resp: 1152953

Ion Ratio Lower Upper

91 100

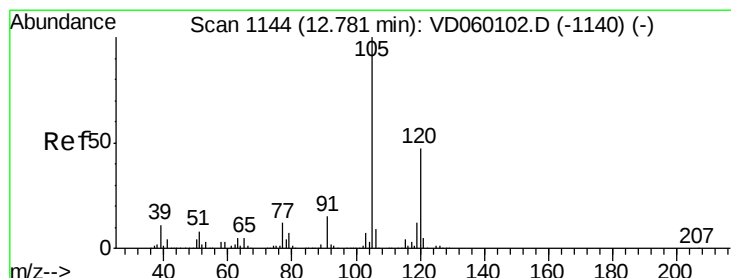
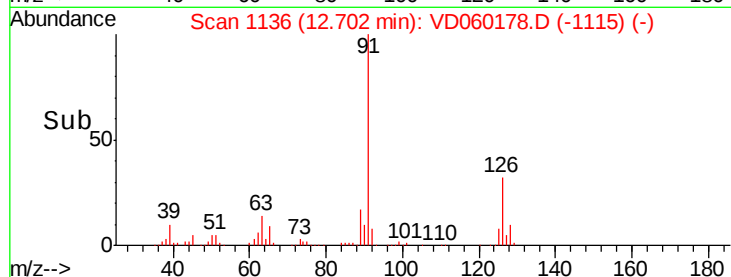
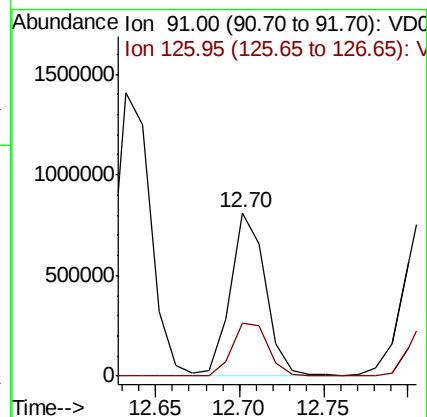
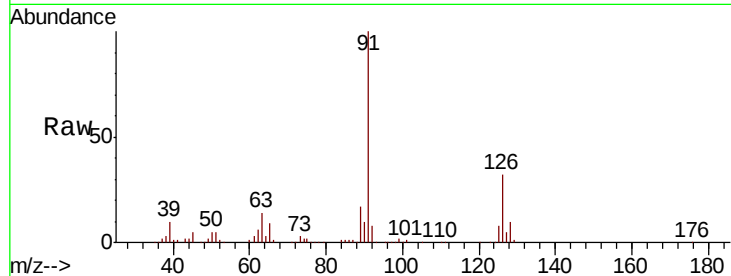
126 32.2 16.8 50.3

Manual Integrations

APPROVED

apatel

10/25/2018 4:49:49 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.392 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VD060178.D

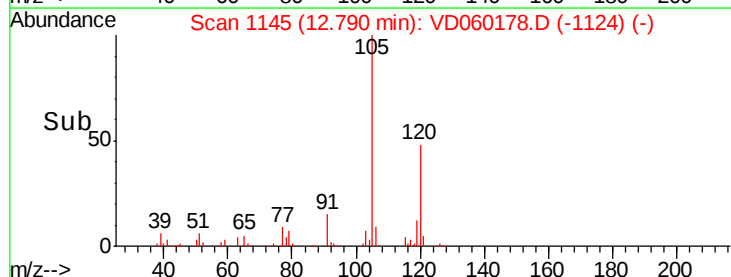
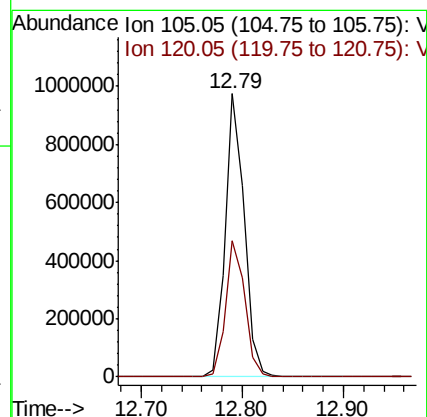
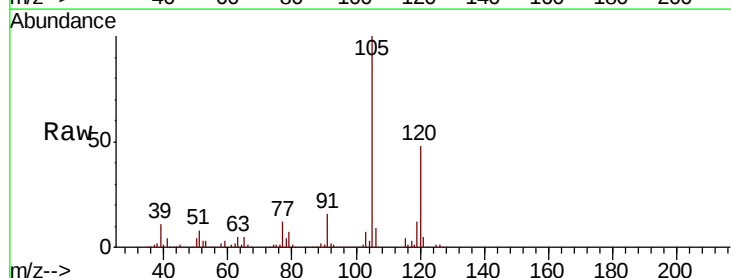
Acq: 24 Oct 2018 13:29

Tgt Ion: 105 Resp: 1274617

Ion Ratio Lower Upper

105 100

120 48.1 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 21.847 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

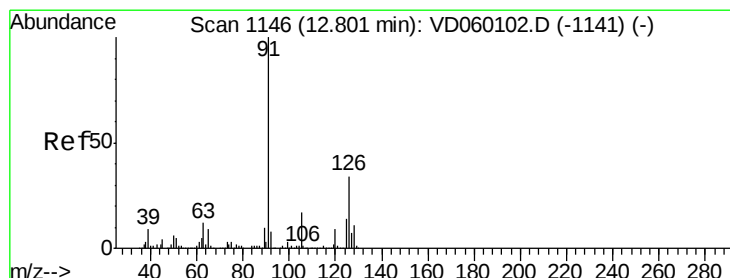
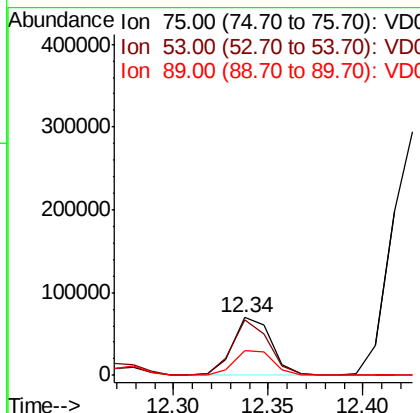
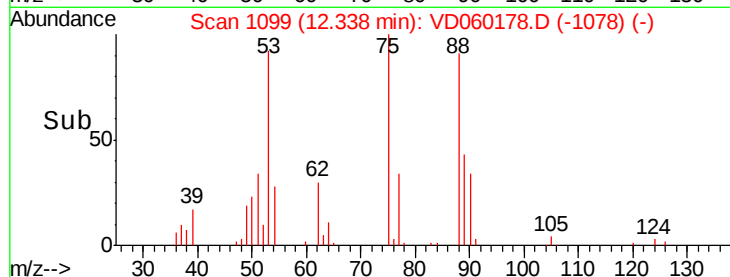
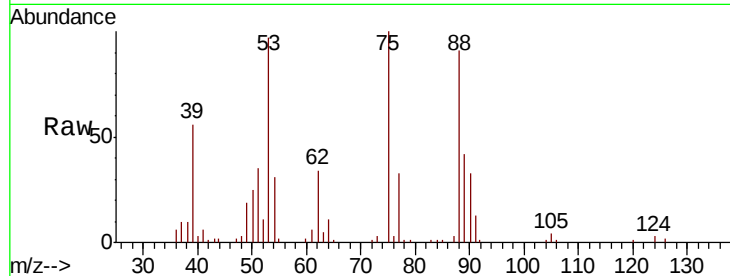
ClientSampleId :

VD1024SBS01

Tot Ion:	75	Resp:	98555
Ion Ratio	Lower	Upper	
75	100		
53	96.5	73.0	109.6
89	42.4	32.0	48.0

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#82

4-Chlorotoluene

Concen: 22.334 ug/l

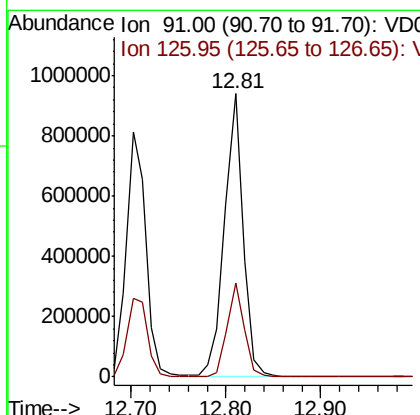
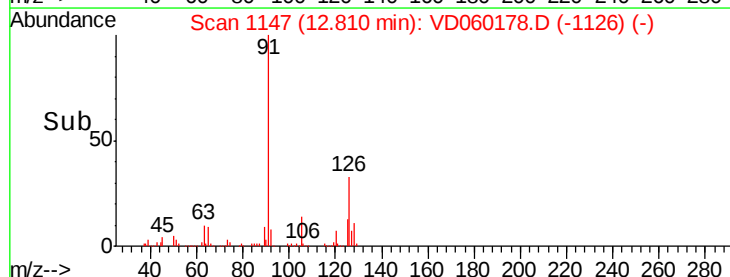
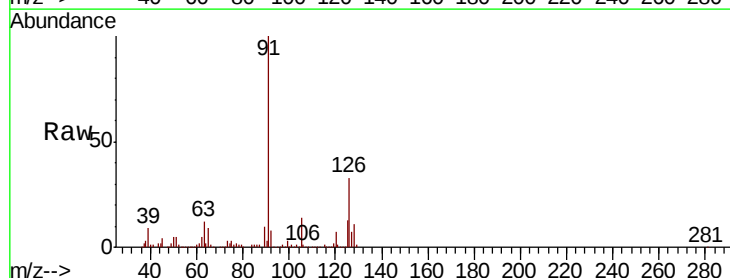
RT: 12.81 min Scan# 1147

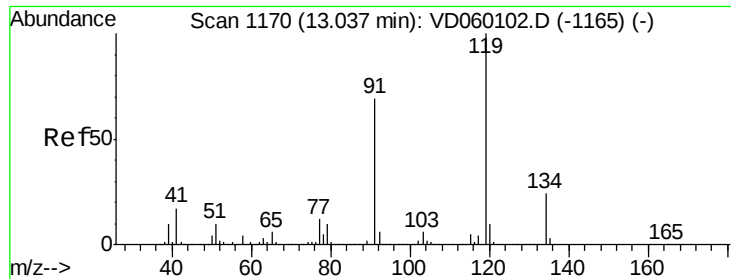
Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Tgt Ion:	91	Resp:	1280351
Ion Ratio	Lower	Upper	
91	100		
126	33.0	17.1	51.2





#83

tert-Butylbenzene

Concen: 22.157 ug/l

RT: 13.05 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VD060178.D

Acq: 24 Oct 2018 13:29

Instrument :

MSVOA_D

ClientSampleID :

VD1024SBS01

Tot Ion:119 Resp: 1447323

Ion Ratio Lower Upper

119 100

91 69.6 34.8 104.4

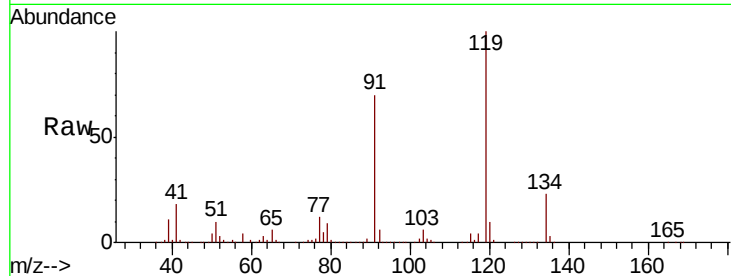
134 23.5 11.8 35.4

Manual Integrations

APPROVED

apatel

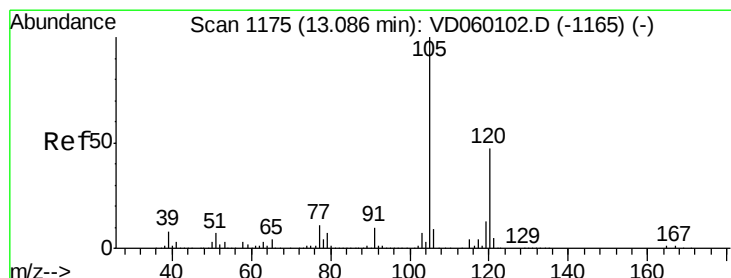
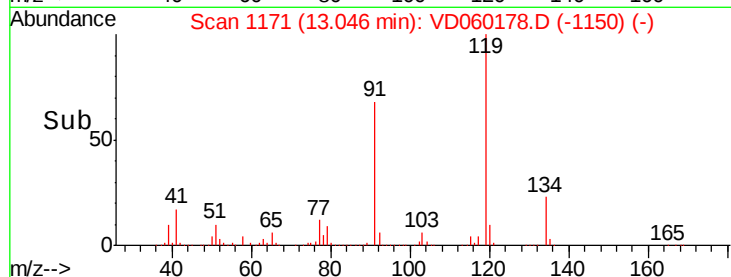
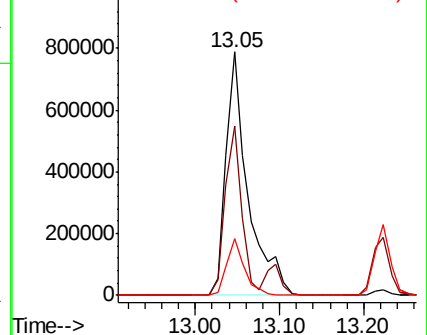
10/25/2018 4:49:49 PM



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.976 ug/l

RT: 13.10 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VD060178.D

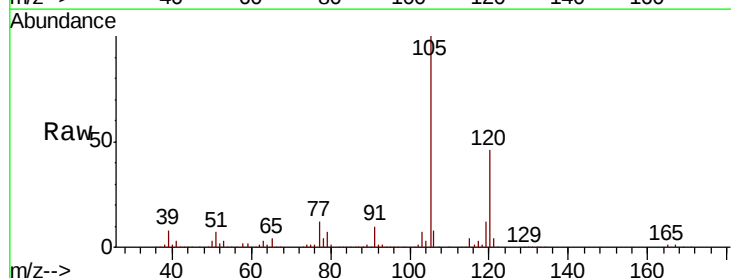
Acq: 24 Oct 2018 13:29

Tgt Ion:105 Resp: 1318354

Ion Ratio Lower Upper

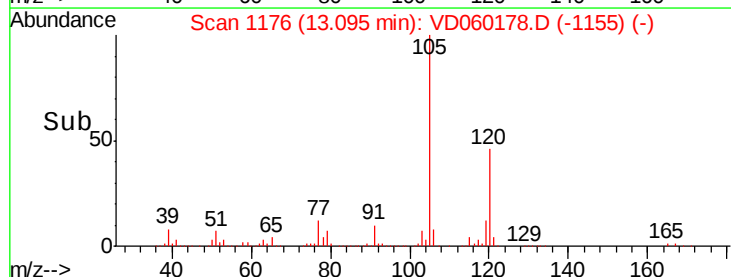
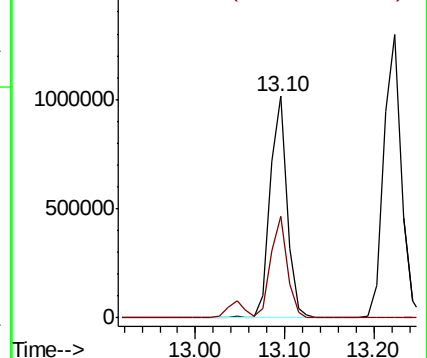
105 100

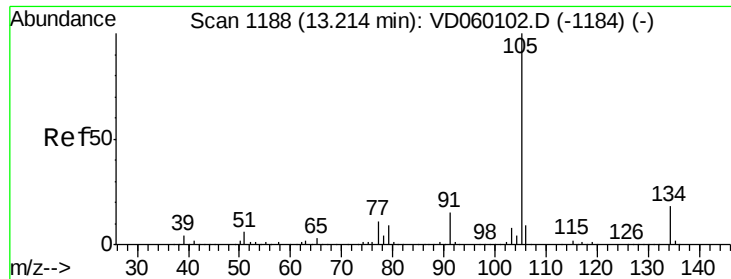
120 45.9 23.4 70.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





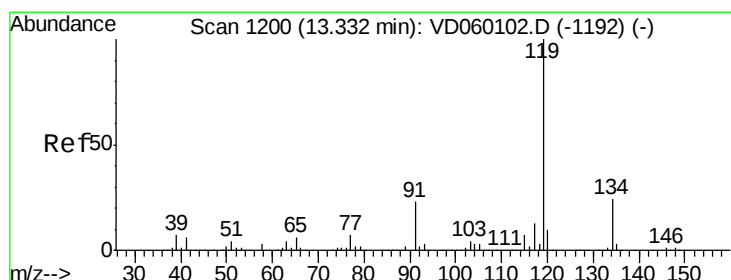
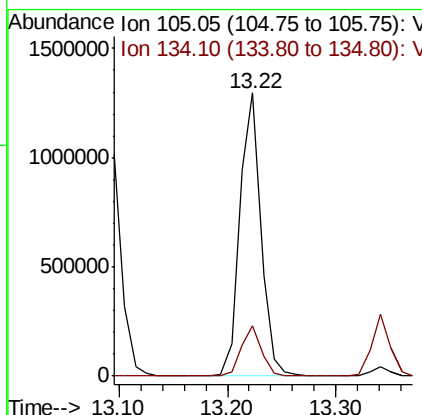
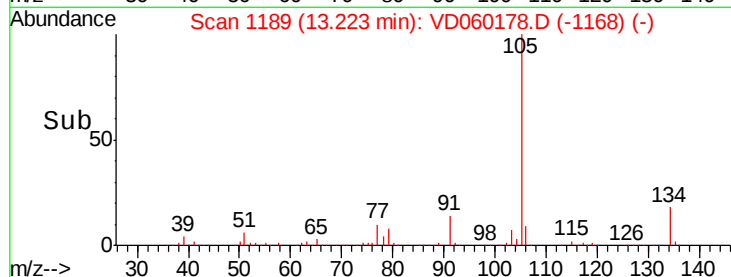
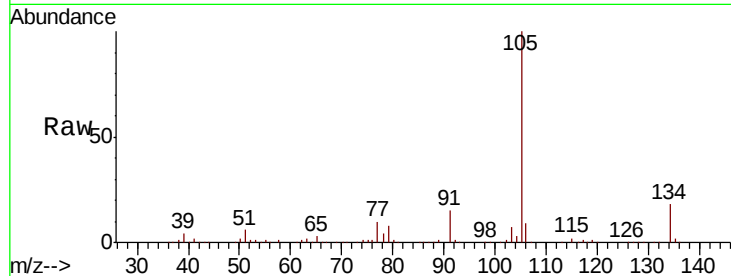
#85
 sec-Butylbenzene
 Concen: 22.634 ug/l
 RT: 13.22 min Scan# 1189
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1024SBS01

Tot Ion:105 Resp: 1748091
 Ion Ratio Lower Upper
 105 100
 134 17.8 8.8 26.2

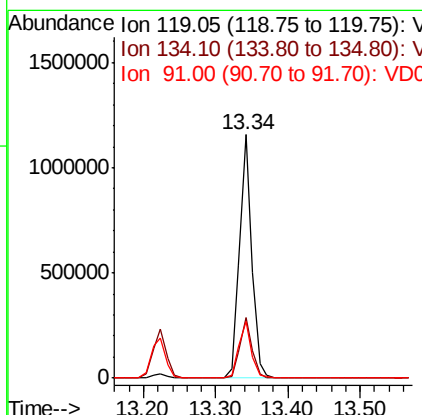
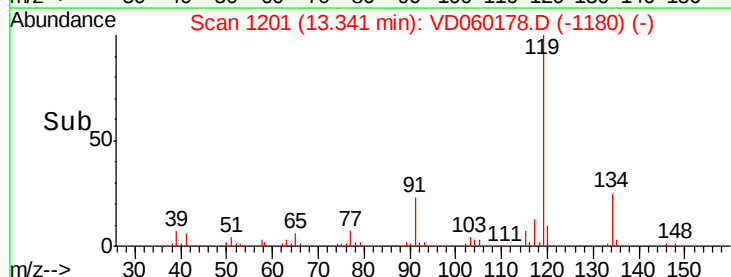
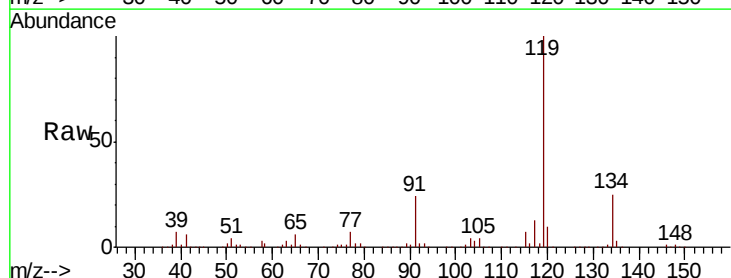
Manual Integrations
 APPROVED

apatel
 10/25/2018 4:49:49 PM



#86
 p-Isopropyltoluene
 Concen: 21.737 ug/l
 RT: 13.34 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion:119 Resp: 1376981
 Ion Ratio Lower Upper
 119 100
 134 24.6 12.3 36.8
 91 23.5 11.8 35.4





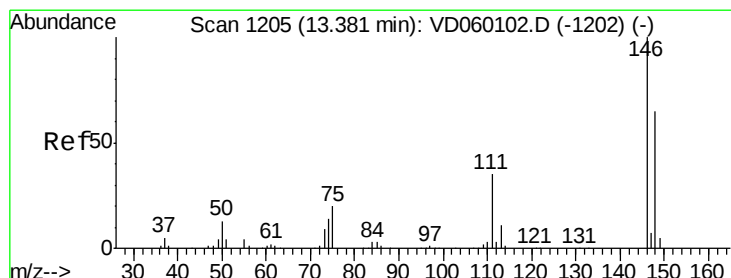
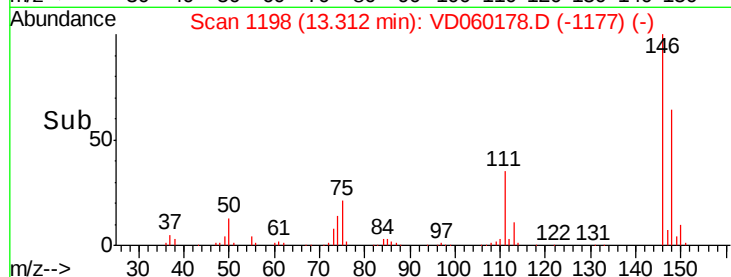
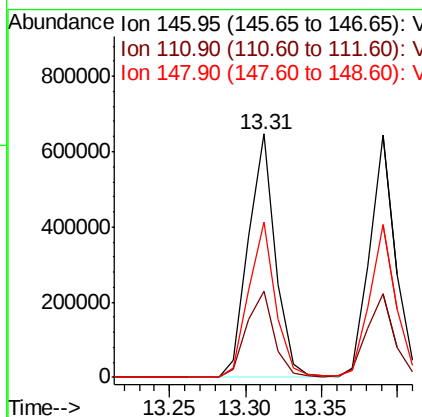
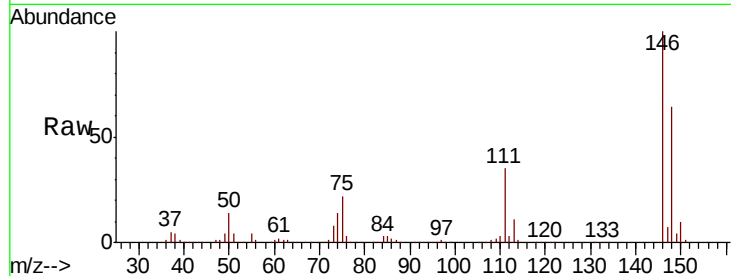
#87
 1,3-Dichlorobenzene
 Concen: 21.669 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.3	18.1	54.3
148	63.9	32.3	96.9

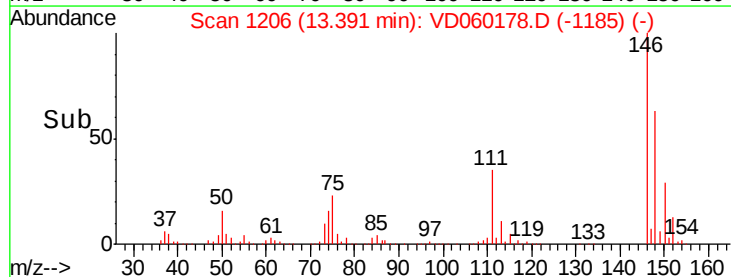
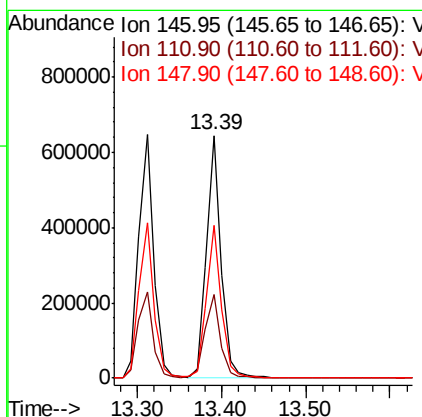
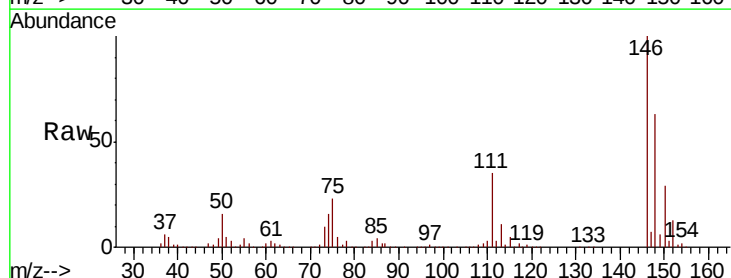
Manual Integrations
 APPROVED

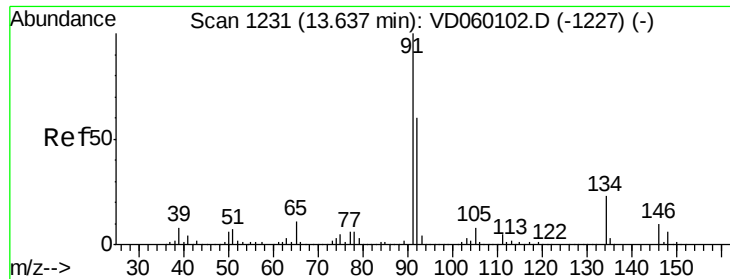
apatel
 10/25/2018 4:49:49 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.804 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.6	17.8	53.3
148	62.9	32.4	97.2





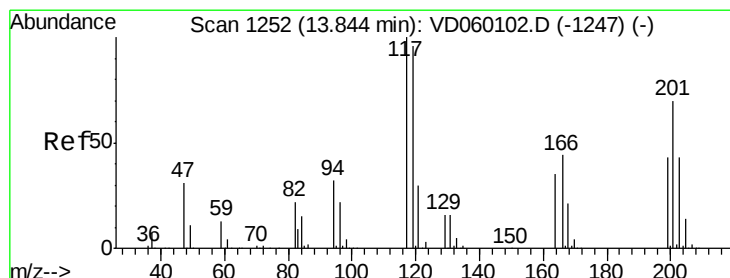
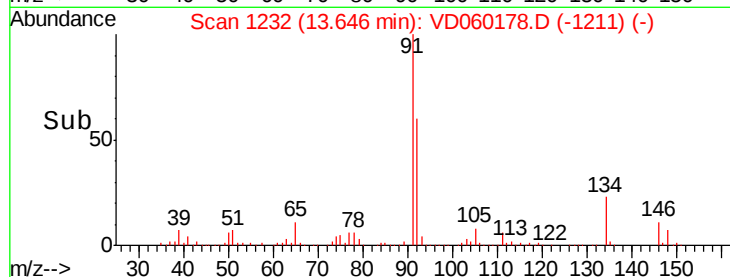
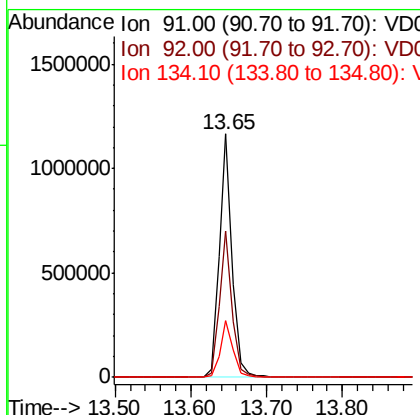
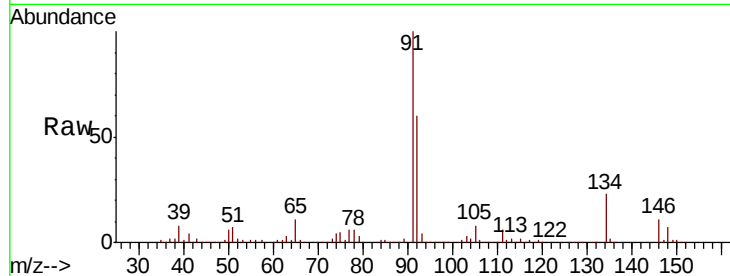
#89
n-Butylbenzene
Concen: 22.504 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion: 91 Resp: 1391007
Ion Ratio Lower Upper
91 100
92 59.9 30.1 90.3
134 23.4 11.6 34.7

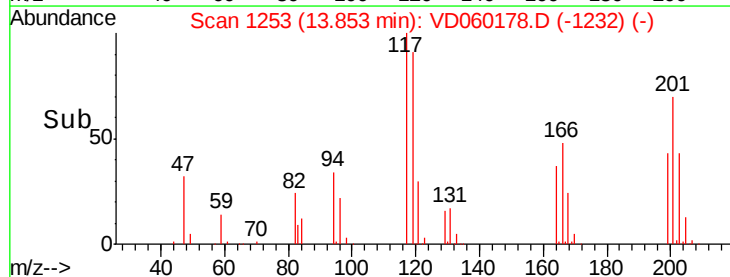
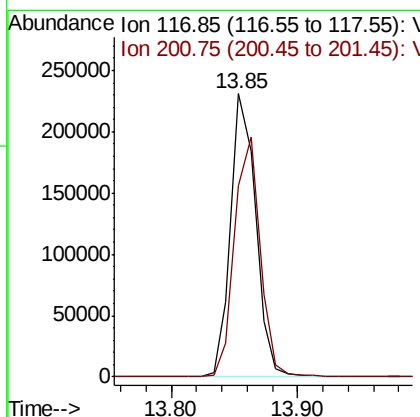
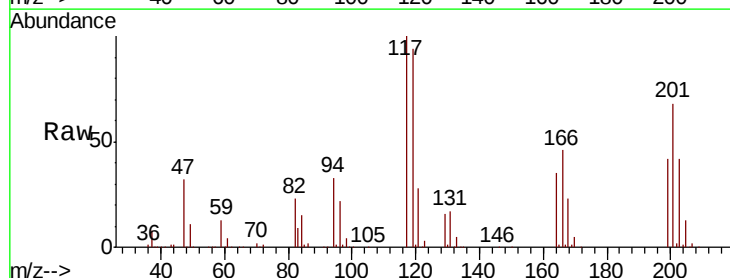
Manual Integrations
APPROVED

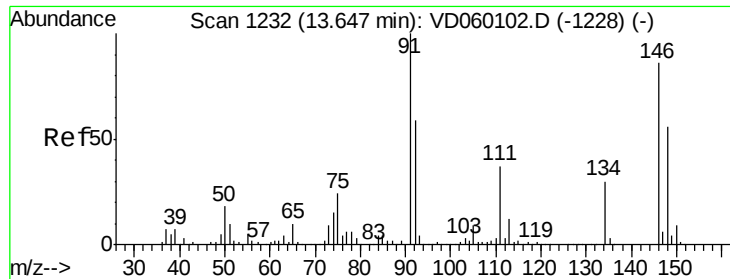
apatel
10/25/2018 4:49:49 PM



#90
Hexachloroethane
Concen: 21.675 ug/l
RT: 13.85 min Scan# 1253
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion: 117 Resp: 317775
Ion Ratio Lower Upper
117 100
201 67.5 34.8 104.5





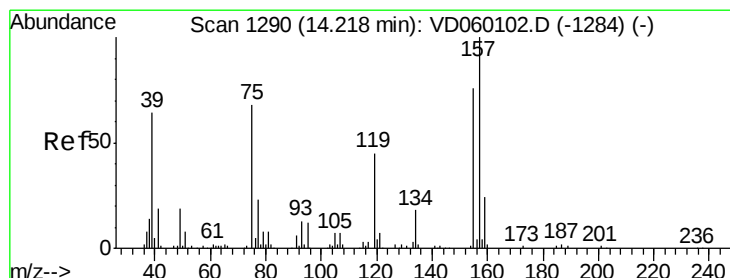
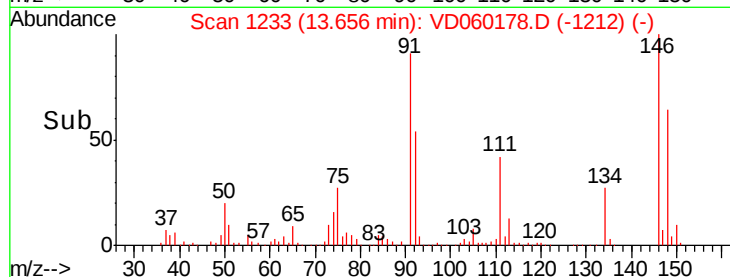
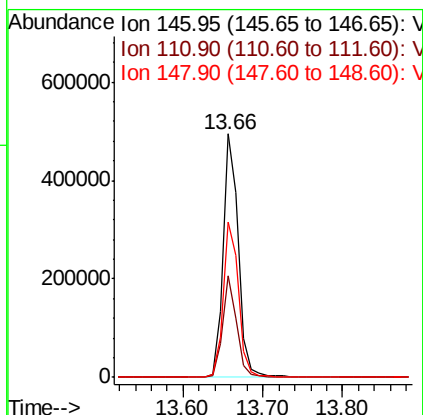
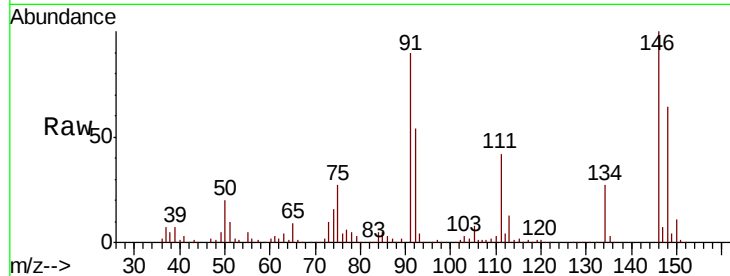
#91
 1,2-Dichlorobenzene
 Concen: 21.156 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.3
148	63.7	32.2	96.6

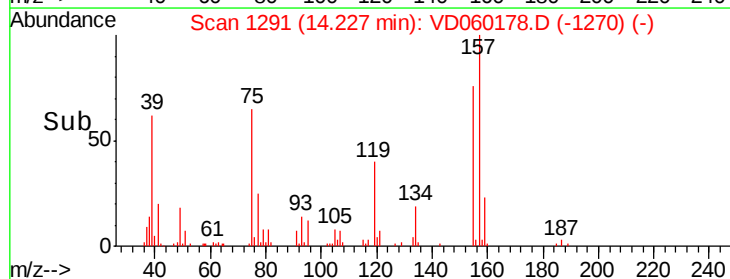
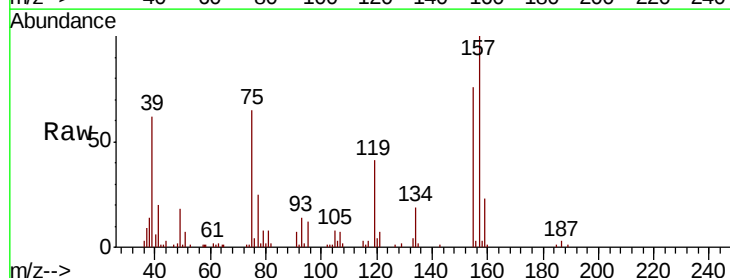
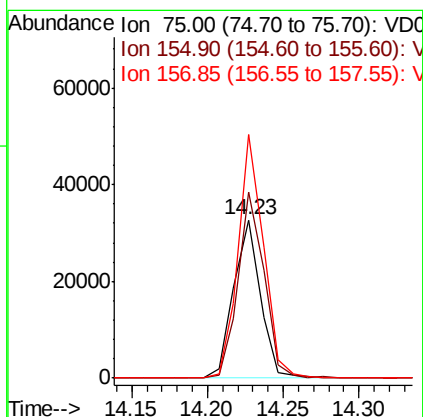
Manual Integrations
 APPROVED

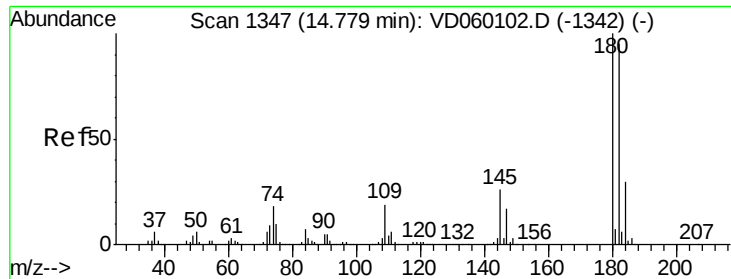
apatel
 10/25/2018 4:49:49 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.687 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	117.5	55.9	167.7
157	153.9	73.3	219.8





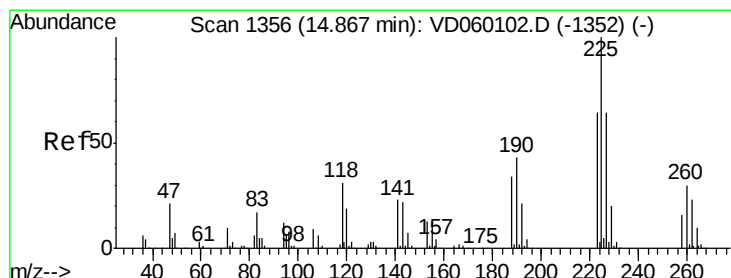
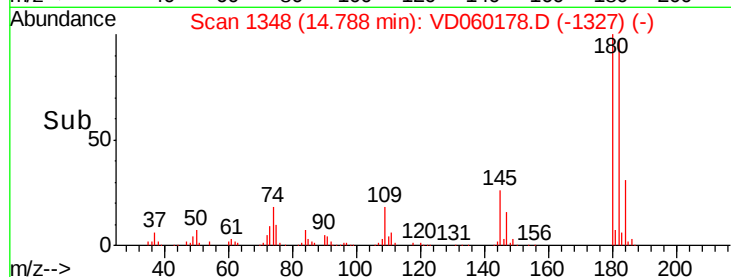
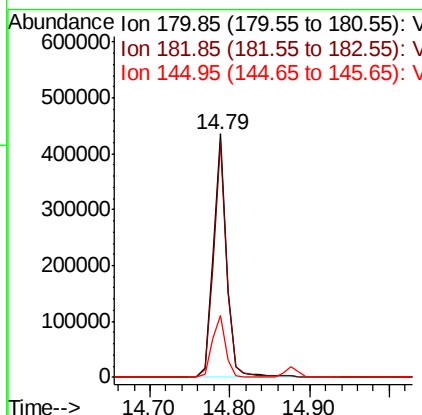
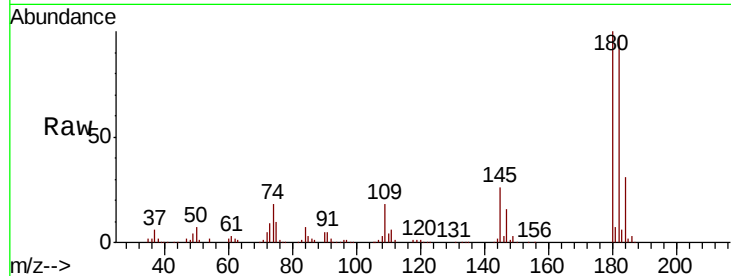
#93
 1,2,4-Trichlorobenzene
 Concen: 19.475 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1024SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	517541		
182	97.0	47.3	141.8	
145	25.6	13.0	38.9	

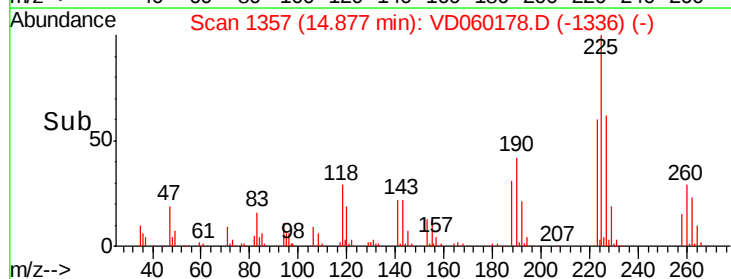
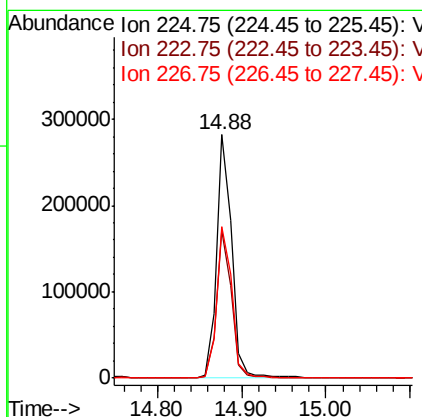
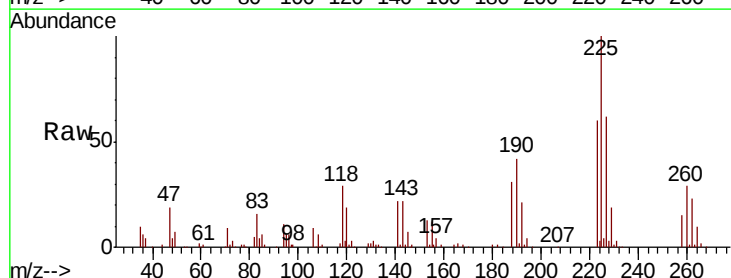
Manual Integrations
 APPROVED

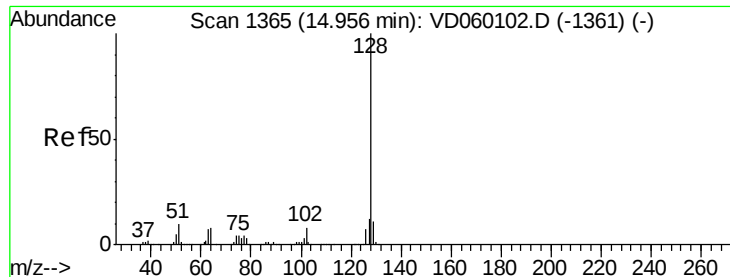
apatel
 10/25/2018 4:49:49 PM



#94
 Hexachlorobutadiene
 Concen: 19.878 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. 0.01 min
 Lab File: VD060178.D
 Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	351141		
223	60.4	31.8	95.4	
227	62.2	32.0	96.0	





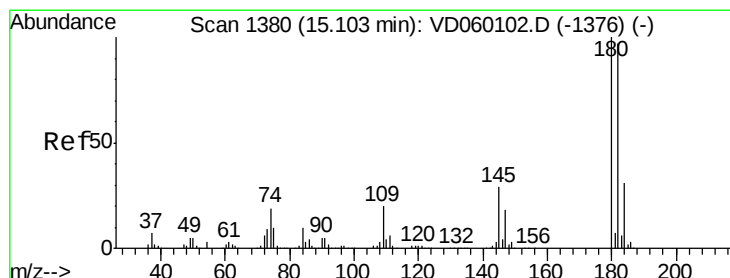
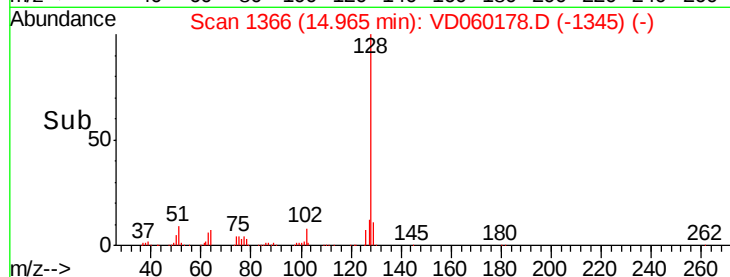
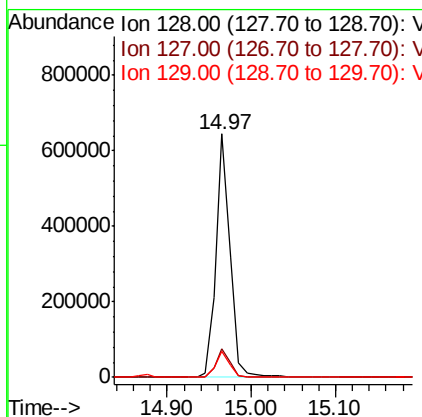
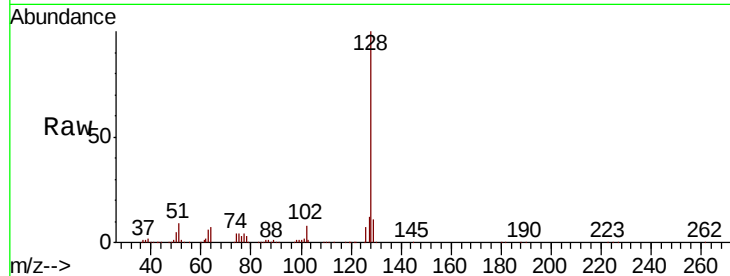
#95
Naphthalene
Concen: 18.967 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Instrument :
MSVOA_D
ClientSampleId :
VD1024SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.9	14.9
129	10.7	8.8	13.2

Manual Integrations
APPROVED

apatel
10/25/2018 4:49:49 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.360 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060178.D
Acq: 24 Oct 2018 13:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.4	145.0
145	28.6	14.5	43.6

