

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060051.D
 Acq On : 20 Sep 2018 12:35
 Operator : VA/AP
 Sample : VD0920SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Manual Integrations
 APPROVED

apatel
 9/21/2018 12:02:14 PM

Quant Time: Sep 20 16:46:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1603959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	2182542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1759407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	957137	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	665752	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	
35) Dibromofluoromethane	6.31	113	903510	52.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.98%	
50) Toluene-d8	9.45	98	2498400	52.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.74%	
62) 4-Bromofluorobenzene	12.42	95	973778	53.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	299761	17.705	ug/l	99
3) Chloromethane	1.75	50	309891	20.721	ug/l	97
4) Vinyl Chloride	1.84	62	244855	20.366	ug/l	100
5) Bromomethane	2.12	94	22979	16.147	ug/l	86
6) Chloroethane	2.23	64	58271	21.679	ug/l	100
7) Trichlorofluoromethane	2.49	101	276965	20.924	ug/l	96
8) Diethyl Ether	2.81	74	57076	20.285	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.07	101	184441	22.098	ug/l	97
10) Methyl Iodide	3.23	142	180615	20.431	ug/l	91
11) Tert butyl alcohol	3.95	59	72887	72.216	ug/l	98
12) 1,1-Dichloroethene	3.06	96	151582	22.968	ug/l	89
13) Acrolein	2.97	56	50439	80.700	ug/l	96
14) Allyl chloride	3.51	41	290345	20.861	ug/l	100
15) Acrylonitrile	4.06	53	365473	95.930	ug/l	98
16) Acetone	3.14	43	279789	115.857	ug/l	94
17) Carbon Disulfide	3.29	76	461795	20.308	ug/l	99
18) Methyl Acetate	3.54	43	92202	18.773	ug/l	95
19) Methyl tert-butyl Ether	4.10	73	597503	19.594	ug/l	99
20) Methylene Chloride	3.70	84	397329	18.596	ug/l	95
21) trans-1,2-Dichloroethene	4.08	96	350198	20.221	ug/l	99
22) Diisopropyl ether	4.83	45	1270964	20.019	ug/l	94
23) Vinyl Acetate	4.78	43	3587355	99.740	ug/l	100
24) 1,1-Dichloroethane	4.73	63	583821	20.492	ug/l	100
25) 2-Butanone	5.61	43	698591	107.200	ug/l	98
26) 2,2-Dichloropropane	5.57	77	469902	21.215	ug/l	98
27) cis-1,2-Dichloroethene	5.58	96	368968	20.367	ug/l	98
28) Bromochloromethane	5.90	49	275428	20.112	ug/l	98
29) Tetrahydrofuran	5.93	42	316048	90.433	ug/l	98
30) Chloroform	6.08	83	602698	20.860	ug/l	99
31) Cyclohexane	6.35	56	549820	19.793	ug/l	98
32) 1,1,1-Trichloroethane	6.28	97	474637	19.807	ug/l	100
36) 1,1-Dichloropropene	6.50	75	441897	20.383	ug/l	99
37) Ethyl Acetate	5.68	43	288209	19.331	ug/l	98
38) Carbon Tetrachloride	6.48	117	390375	19.289	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060051.D
 Acq On : 20 Sep 2018 12:35
 Operator : VA/AP
 Sample : VD0920SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0920SBS01

Manual Integrations
 APPROVED

apatel
 9/21/2018 12:02:14 PM

Quant Time: Sep 20 16:46:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	499020	20.347	ug/l	98
40) Benzene	6.78	78	1162570	21.039	ug/l	99
41) Methacrylonitrile	5.92	41	176969m	22.663	ug/l	
42) 1,2-Dichloroethane	6.88	62	328228	19.783	ug/l	98
43) Isopropyl Acetate	8.33	43	374742	18.773	ug/l #	99
44) Trichloroethene	7.72	130	339028	19.858	ug/l	99
45) 1,2-Dichloropropane	8.09	63	304500	20.608	ug/l	98
46) Dibromomethane	8.20	93	189086	19.613	ug/l	97
47) Bromodichloromethane	8.47	83	420498	20.230	ug/l	99
48) Methyl methacrylate	8.22	41	209650	18.858	ug/l	98
49) 1,4-Dioxane	8.22	88	39364	356.485	ug/l	95
51) 4-Methyl-2-Pentanone	9.33	43	1422987	96.137	ug/l	100
52) Toluene	9.53	92	712879	20.127	ug/l	100
53) t-1,3-Dichloropropene	9.91	75	383778	19.797	ug/l	99
54) cis-1,3-Dichloropropene	9.09	75	470050	20.294	ug/l	100
55) 1,1,2-Trichloroethane	10.17	97	240919	19.591	ug/l	96
56) Ethyl methacrylate	10.02	69	259856	19.051	ug/l	98
57) 1,3-Dichloropropane	10.37	76	374090	20.608	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.90	63	688098	104.467	ug/l	96
59) 2-Hexanone	10.48	43	1078449	101.721	ug/l	100
60) Dibromochloromethane	10.63	129	289840	19.364	ug/l	99
61) 1,2-Dibromoethane	10.74	107	244154	19.229	ug/l	96
64) Tetrachloroethene	10.24	164	322042	20.746	ug/l	99
65) Chlorobenzene	11.31	112	792771	20.958	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.41	131	283294	22.205	ug/l	98
67) Ethyl Benzene	11.42	91	1394134	22.902	ug/l	100
68) m/p-Xylenes	11.56	106	1007889	44.831	ug/l	94
69) o-Xylene	11.93	106	474990	21.323	ug/l	98
70) Styrene	11.94	104	815922	21.784	ug/l	97
71) Bromoform	12.11	173	206192	18.811	ug/l	97
73) Isopropylbenzene	12.27	105	1329214	21.175	ug/l	99
74) N-amyl acetate	12.12	43	470034	18.903	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.55	83	277023	19.453	ug/l	100
76) 1,2,3-Trichloropropane	12.59	75	277095	18.956	ug/l	100
77) Bromobenzene	12.54	156	374624	20.718	ug/l	95
78) n-propylbenzene	12.63	91	1684101	21.334	ug/l	99
79) 2-Chlorotoluene	12.70	91	929055	20.852	ug/l	98
80) 1,3,5-Trimethylbenzene	12.78	105	1056355	21.955	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.34	75	78678	17.830	ug/l	94
82) 4-Chlorotoluene	12.80	91	1046485	21.364	ug/l	97
83) tert-Butylbenzene	13.04	119	1178508	21.143	ug/l	93
84) 1,2,4-Trimethylbenzene	13.09	105	1089542	21.220	ug/l	99
85) sec-Butylbenzene	13.21	105	1393110	21.055	ug/l	99
86) p-Isopropyltoluene	13.33	119	1158842	21.654	ug/l	95
87) 1,3-Dichlorobenzene	13.30	146	667840	21.239	ug/l	97
88) 1,4-Dichlorobenzene	13.38	146	652314	20.453	ug/l	97
89) n-Butylbenzene	13.64	91	1183946	20.460	ug/l	96
90) Hexachloroethane	13.85	117	256590	19.358	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	592414	20.352	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.22	75	35927	16.549	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092018\
Data File : VD060051.D
Acq On : 20 Sep 2018 12:35
Operator : VA/AP
Sample : VD0920SBS01
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

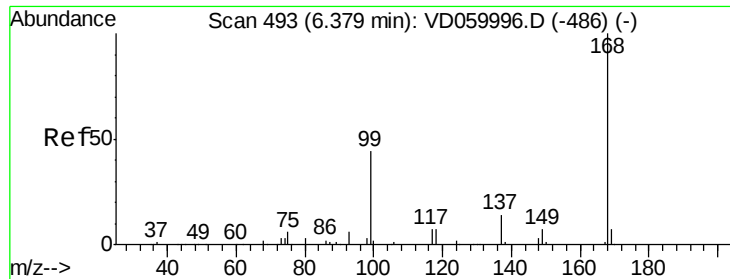
Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM

Quant Time: Sep 20 16:46:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	458068	20.442	ug/l	97
94) Hexachlorobutadiene	14.88	225	313059	21.120	ug/l	99
95) Naphthalene	14.97	128	644048	18.611	ug/l	99
96) 1,2,3-Trichlorobenzene	15.10	180	379858	19.236	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion:168 Resp: 1603959

Ion Ratio Lower Upper

168 100

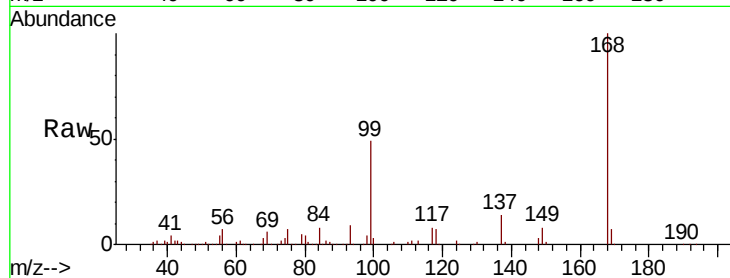
99 48.9 38.5 57.7

Manual Integrations

APPROVED

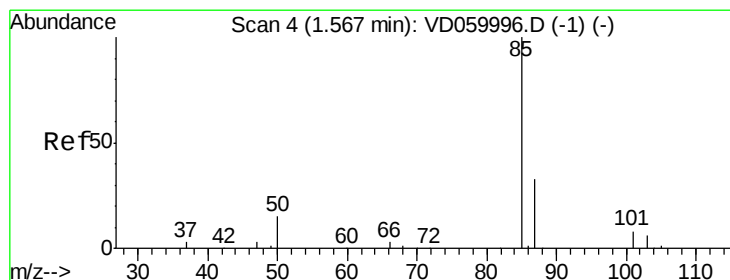
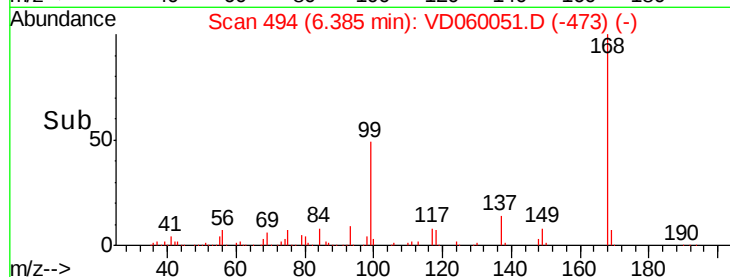
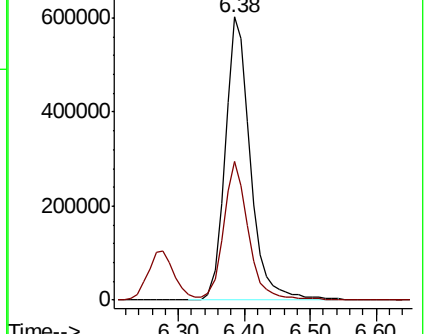
apatel

9/21/2018 12:02:14 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 17.705 ug/l

RT: 1.58 min Scan# 6

Delta R.T. 0.02 min

Lab File: VD060051.D

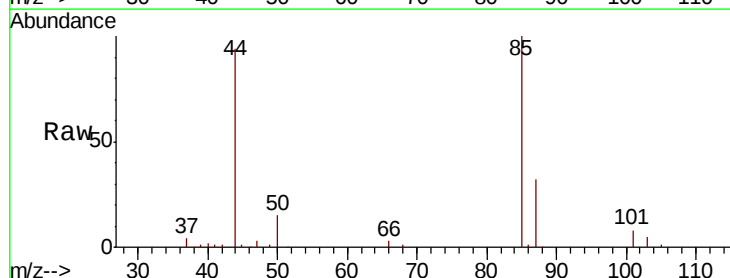
Acq: 20 Sep 2018 12:35

Tgt Ion: 85 Resp: 299761

Ion Ratio Lower Upper

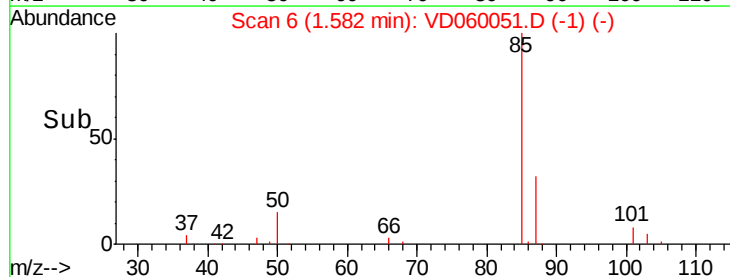
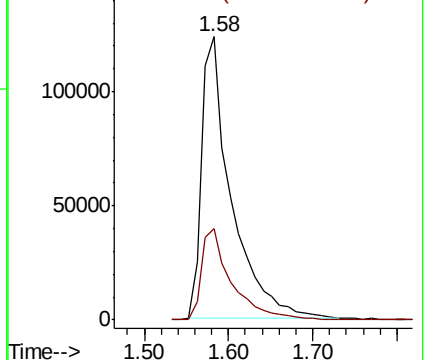
85 100

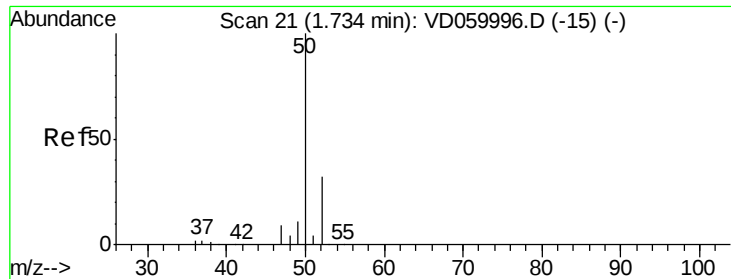
87 32.1 16.4 49.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.721 ug/l

RT: 1.75 min Scan# 23

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 50 Resp: 309891

Ion Ratio Lower Upper

50 100

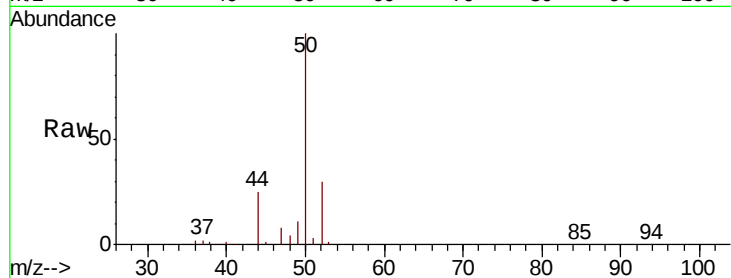
52 29.9 25.4 38.2

Manual Integrations

APPROVED

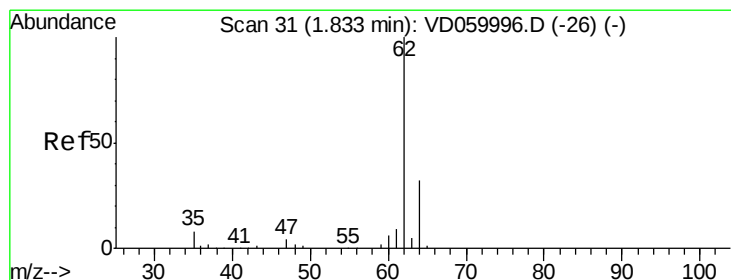
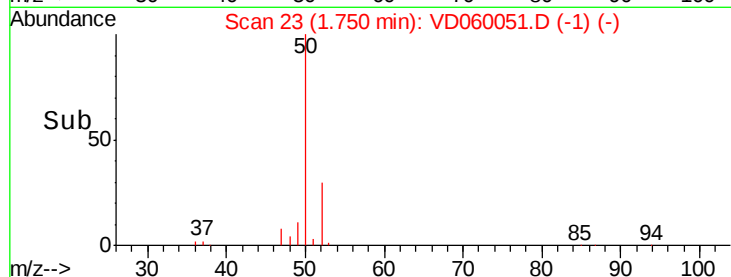
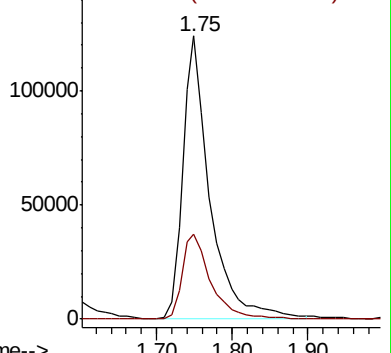
apatel

9/21/2018 12:02:14 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.366 ug/l

RT: 1.84 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD060051.D

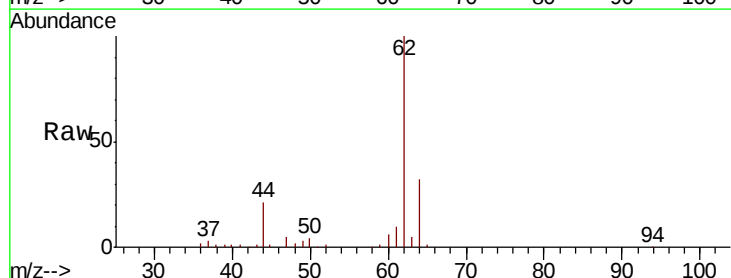
Acq: 20 Sep 2018 12:35

Tgt Ion: 62 Resp: 244855

Ion Ratio Lower Upper

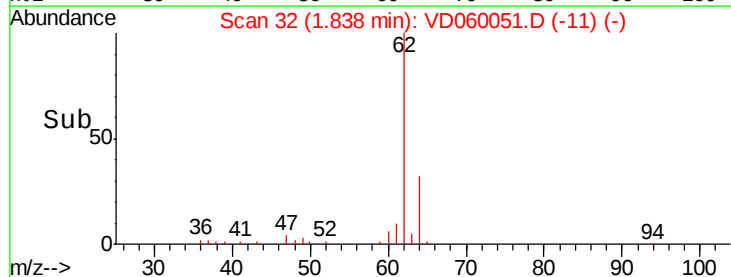
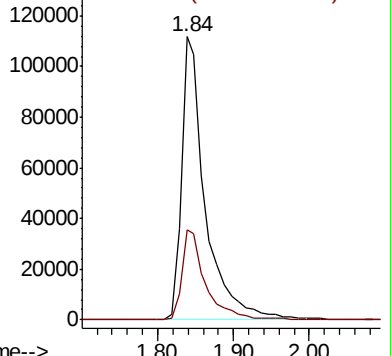
62 100

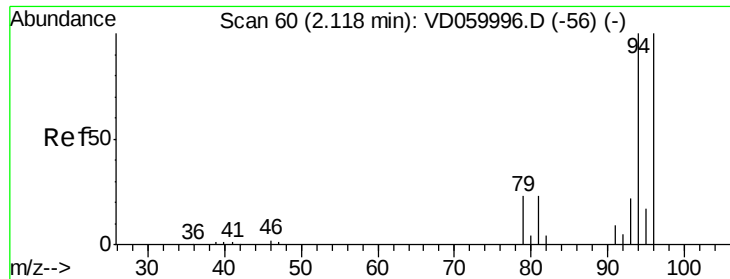
64 31.9 25.5 38.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





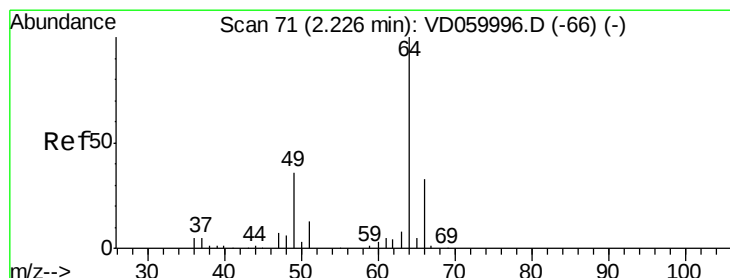
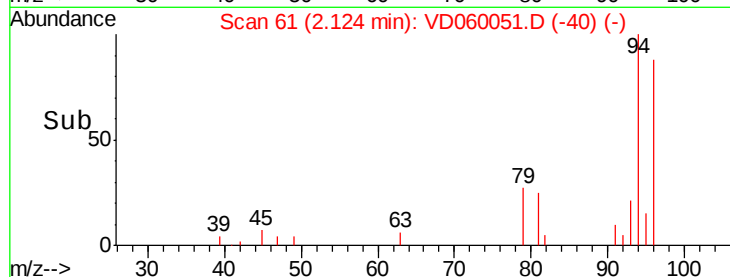
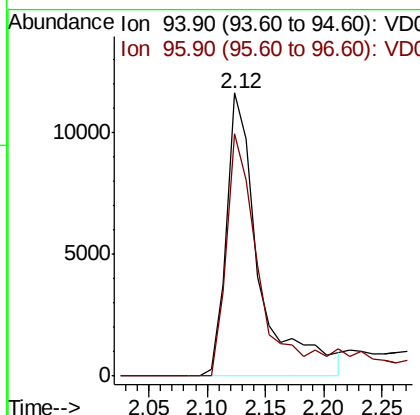
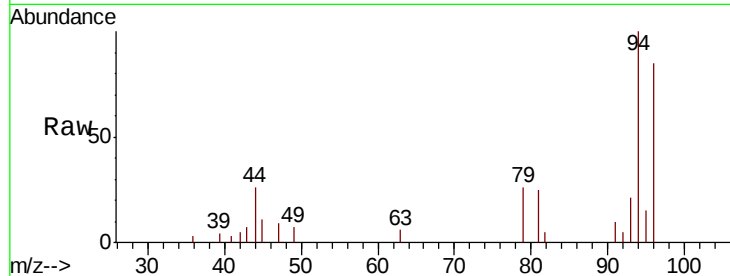
#5
Bromomethane
Concen: 16.147 ug/l
RT: 2.12 min Scan# 61
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 94 Resp: 22979
Ion Ratio Lower Upper
94 100
96 85.5 79.8 119.8

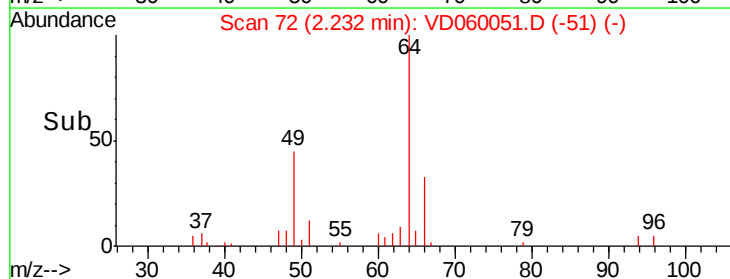
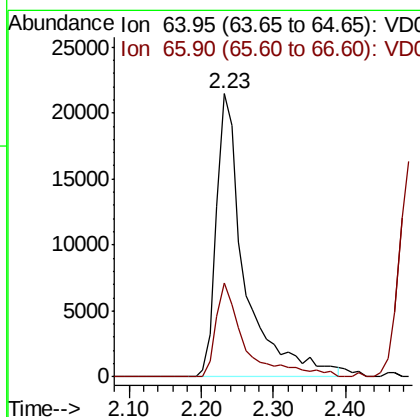
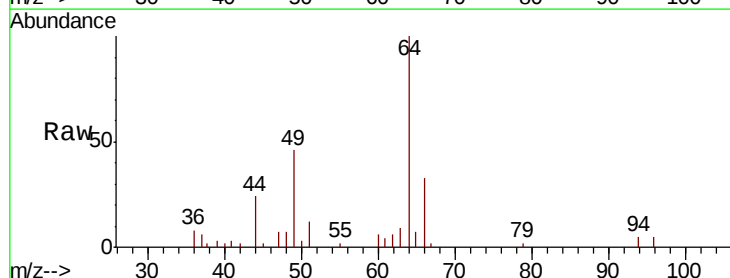
Manual Integrations
APPROVED

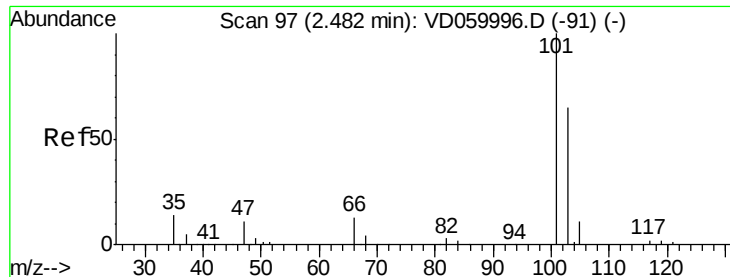
apatel
9/21/2018 12:02:14 PM



#6
Chloroethane
Concen: 21.679 ug/l
RT: 2.23 min Scan# 72
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 64 Resp: 58271
Ion Ratio Lower Upper
64 100
66 33.4 26.5 39.7





#7

Trichlorofluoromethane

Concen: 20.924 ug/l

RT: 2.49 min Scan# 98

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion:101 Resp: 276965

Ion Ratio Lower Upper

101 100

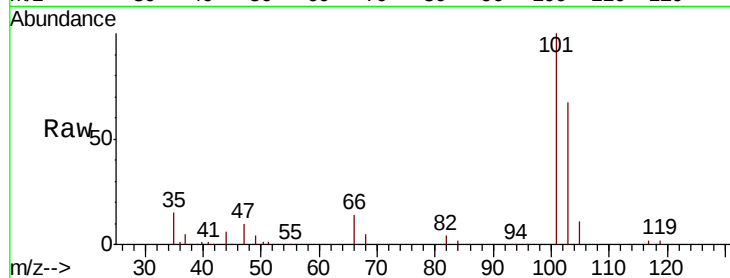
103 67.5 51.6 77.4

Manual Integrations

APPROVED

apatel

9/21/2018 12:02:14 PM



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

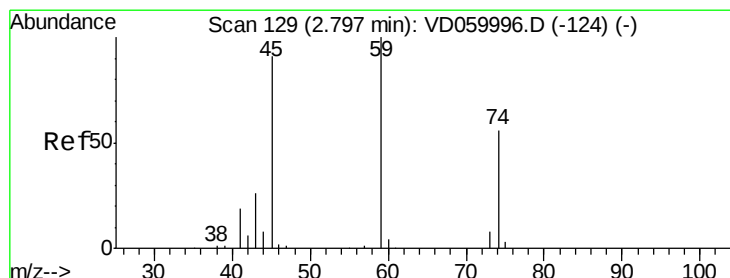
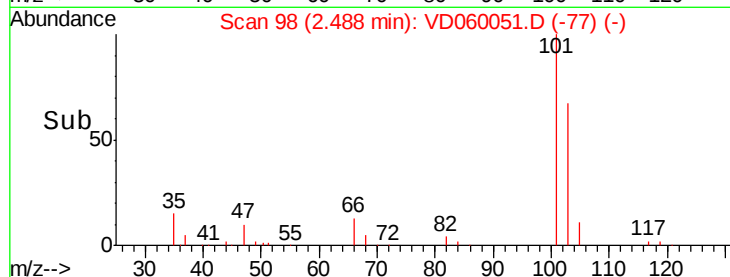
2.49

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 20.285 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.02 min

Lab File: VD060051.D

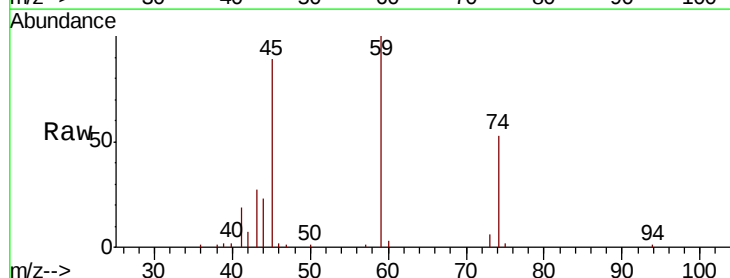
Acq: 20 Sep 2018 12:35

Tgt Ion: 74 Resp: 57076

Ion Ratio Lower Upper

74 100

45 168.3 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

50000

40000

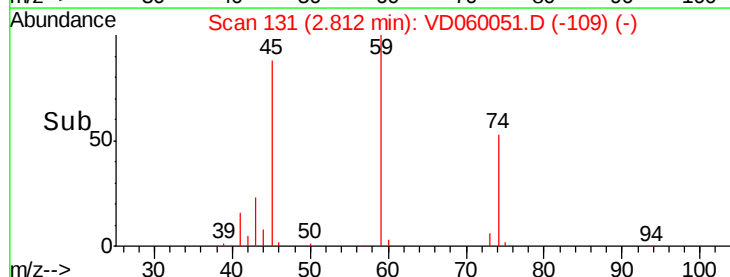
30000

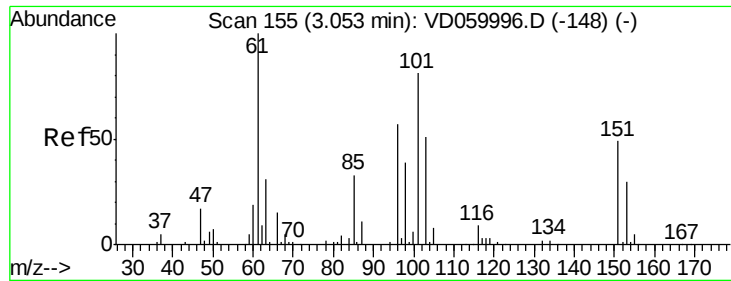
20000

10000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.098 ug/l

RT: 3.07 min Scan# 157

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

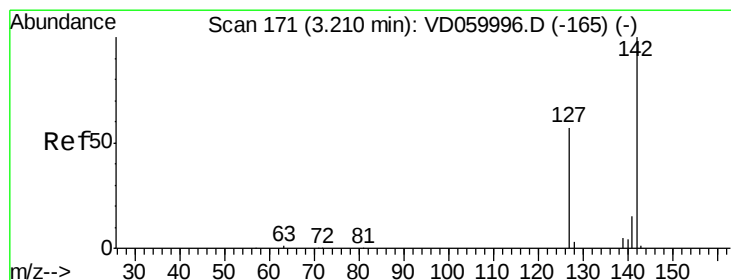
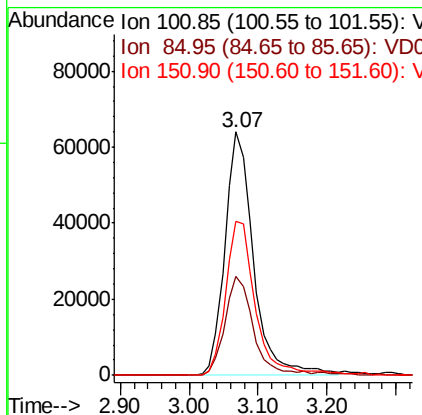
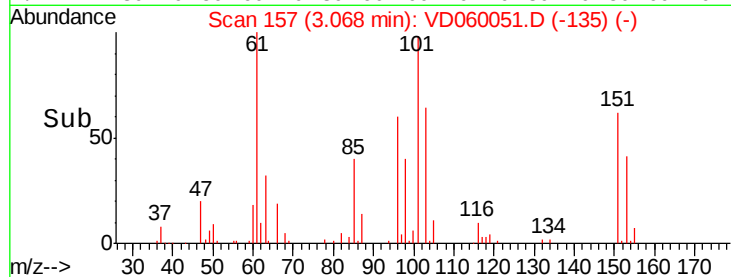
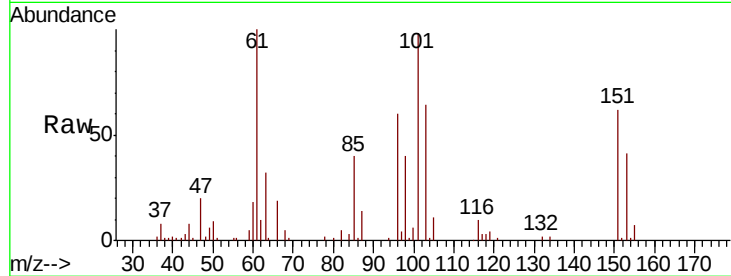
ClientSampleId :

VD0920SBS01

Tot Ion:	101	Resp:	184441
Ion Ratio	Lower	Upper	
101	100		
85	40.6	33.1	49.7
151	63.0	48.2	72.4

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



#10

Methyl Iodide

Concen: 20.431 ug/l

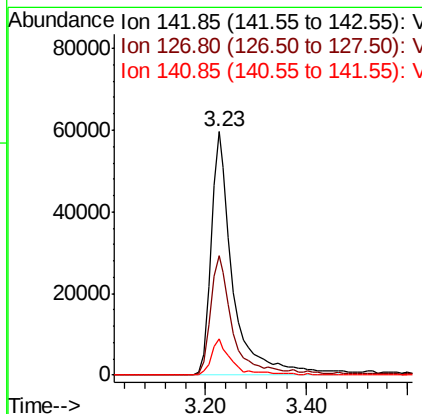
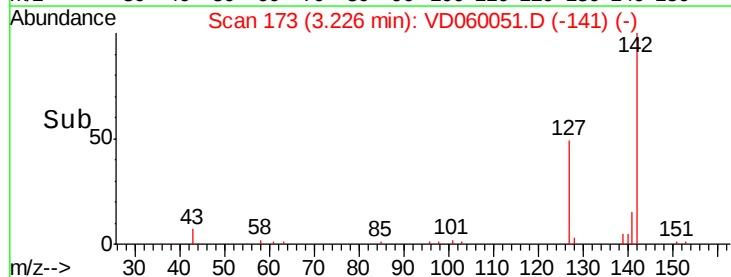
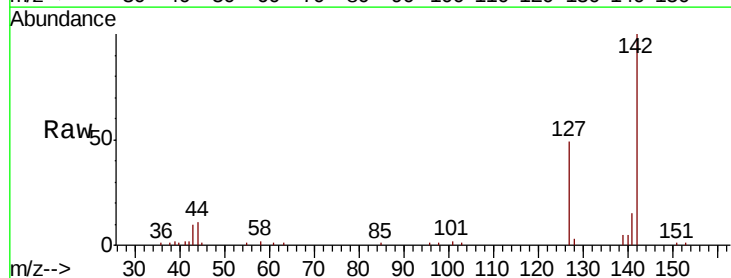
RT: 3.23 min Scan# 173

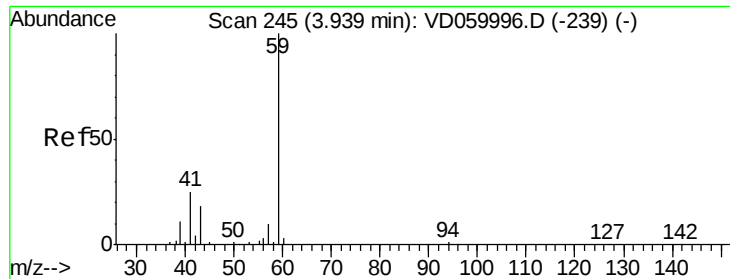
Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion:	142	Resp:	180615
Ion Ratio	Lower	Upper	
142	100		
127	49.1	45.8	68.8
141	15.0	12.2	18.4





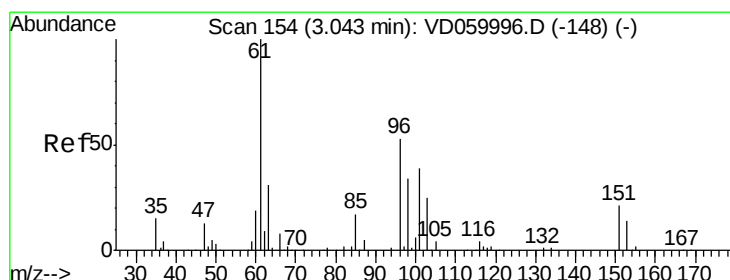
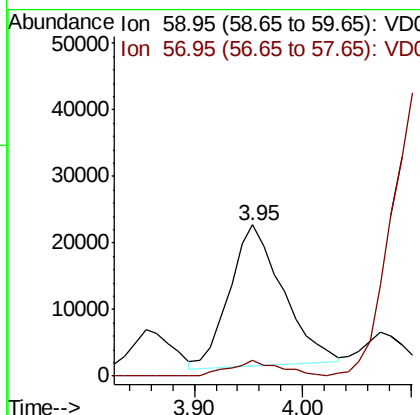
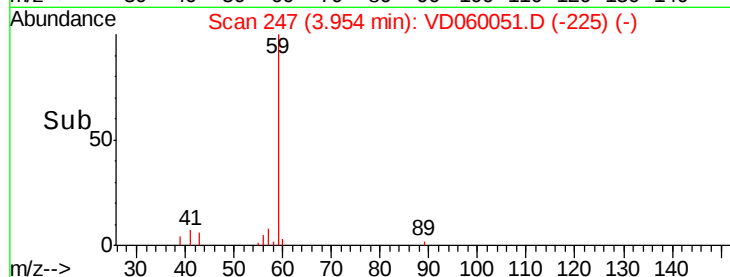
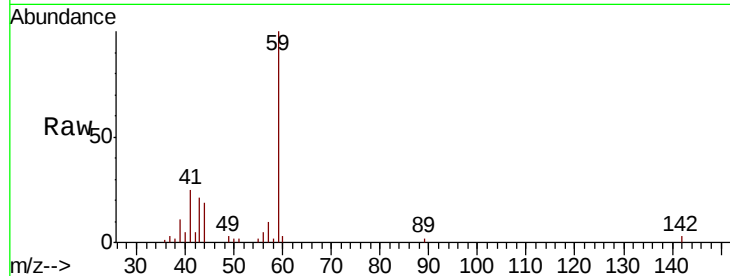
#11
Tert butyl alcohol
Concen: 72.216 ug/l
RT: 3.95 min Scan# 247
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 59 Resp: 72887
Ion Ratio Lower Upper
59 100
57 10.2 7.4 11.2

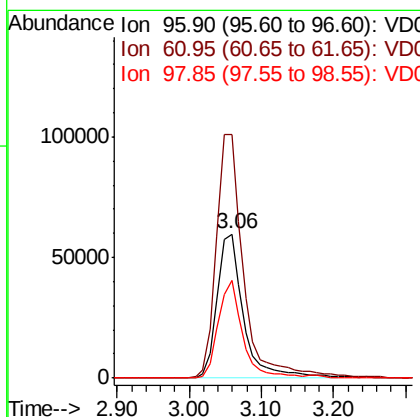
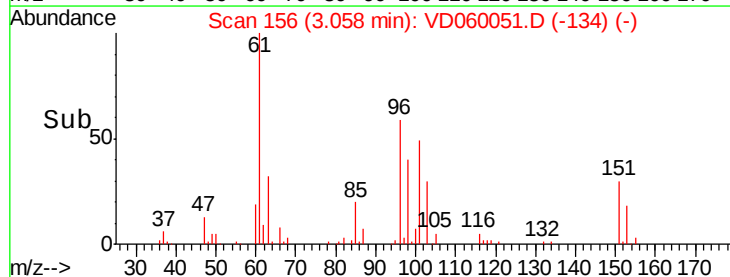
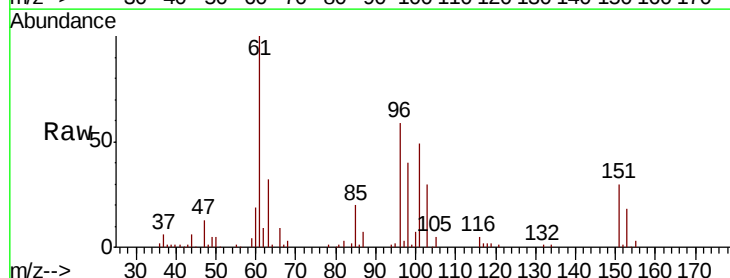
Manual Integrations
APPROVED

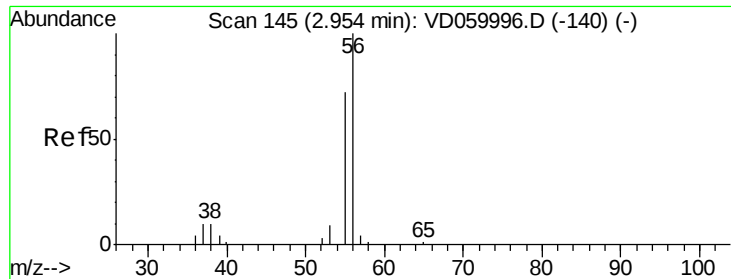
apatel
9/21/2018 12:02:14 PM



#12
1,1-Dichloroethene
Concen: 22.968 ug/l
RT: 3.06 min Scan# 156
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 96 Resp: 151582
Ion Ratio Lower Upper
96 100
61 169.3 149.8 224.6
98 67.8 50.2 75.4





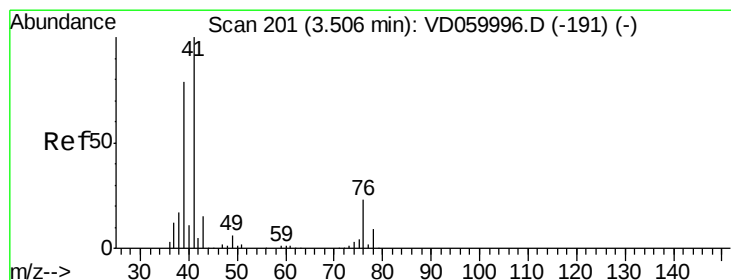
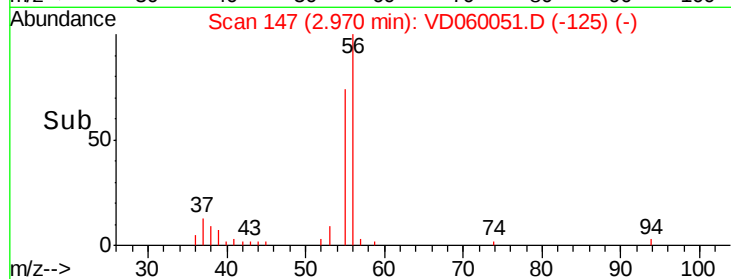
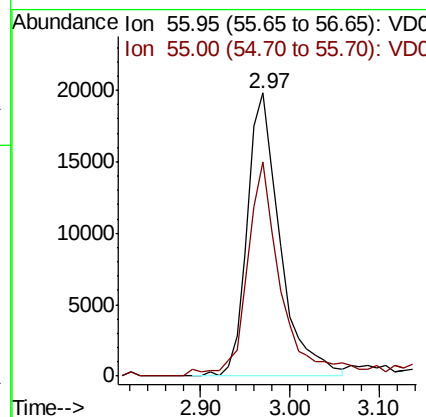
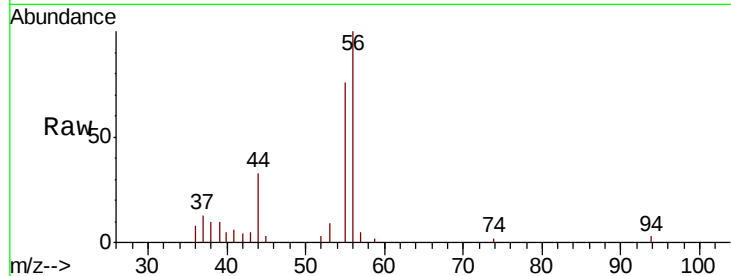
#13
Acrolein
Concen: 80.700 ug/l
RT: 2.97 min Scan# 147
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	56	55	Ratio	Lower	Upper
50439	100	75.9		58.3	87.5

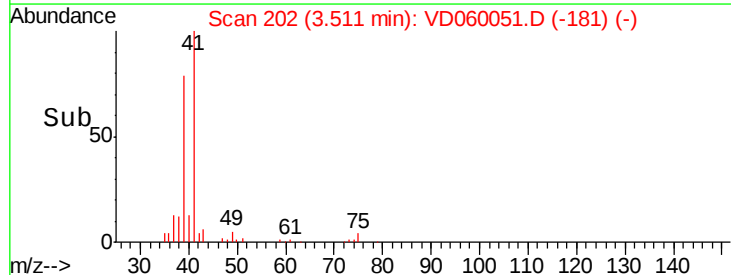
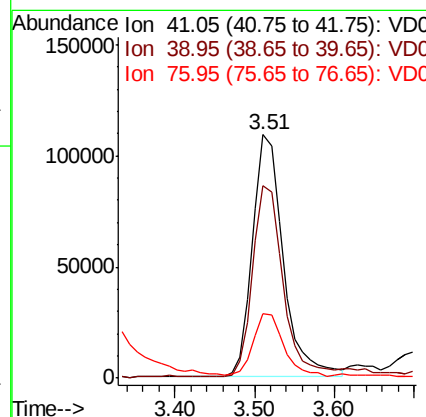
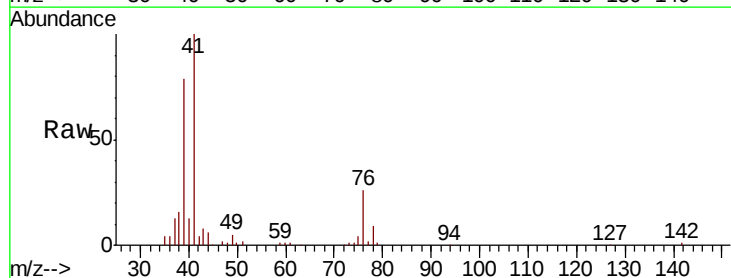
Manual Integrations
APPROVED

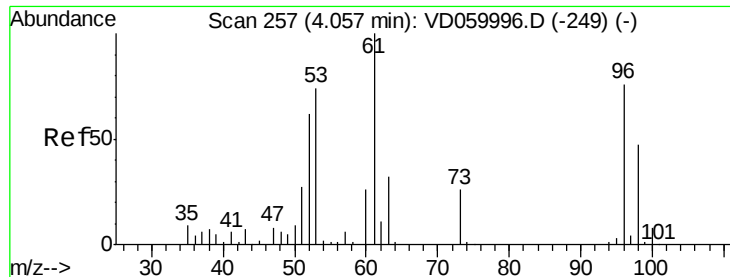
apatel
9/21/2018 12:02:14 PM



#14
Allyl chloride
Concen: 20.861 ug/l
RT: 3.51 min Scan# 202
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	41	39	76	Ratio	Lower	Upper
290345	100	79.3	26.2		63.6	95.4





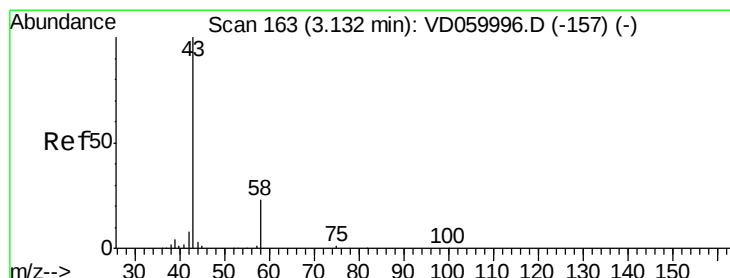
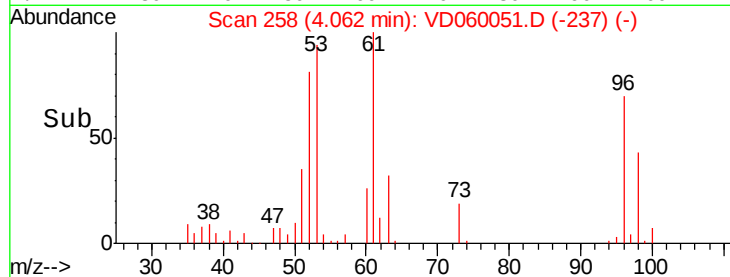
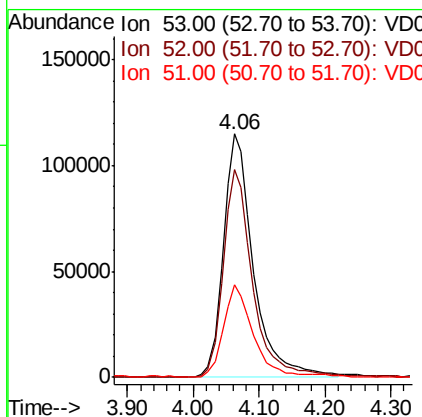
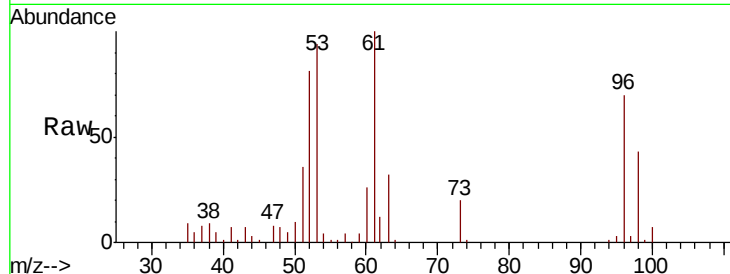
#15
 Acrylonitrile
 Concen: 95.930 ug/l
 RT: 4.06 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0920SBS01

Tot Ion	53	Resp	365473
Ion Ratio	Lower	Upper	
53	100		
52	85.3	66.7	100.1
51	38.1	29.0	43.6

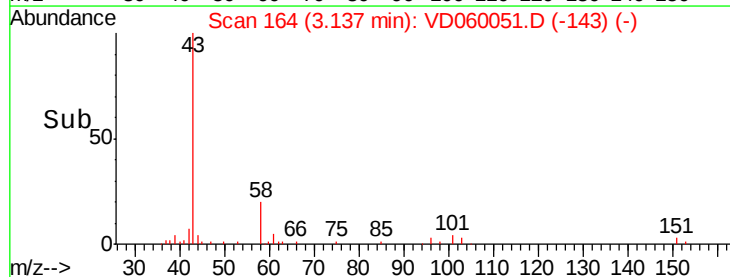
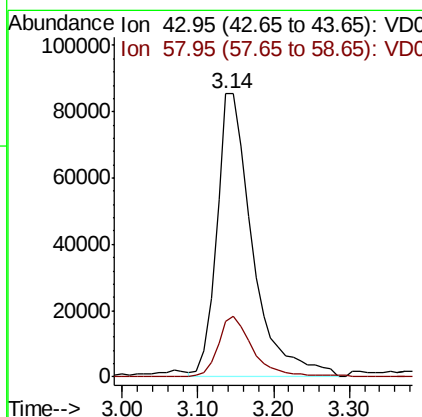
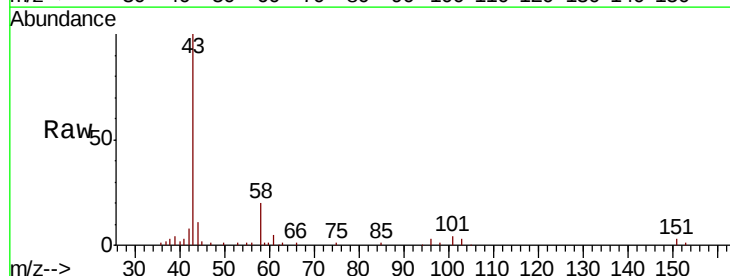
Manual Integrations
 APPROVED

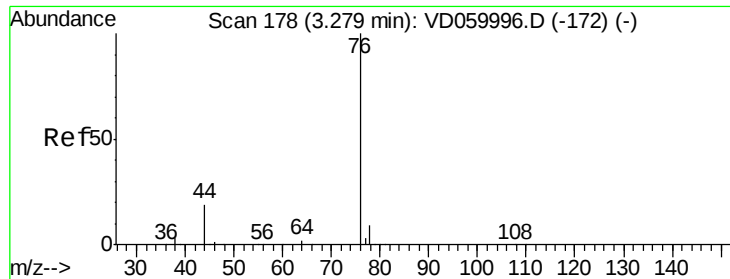
apatel
 9/21/2018 12:02:14 PM



#16
 Acetone
 Concen: 115.857 ug/l
 RT: 3.14 min Scan# 164
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	43	Resp	279789
Ion Ratio	Lower	Upper	
43	100		
58	19.7	18.1	27.1





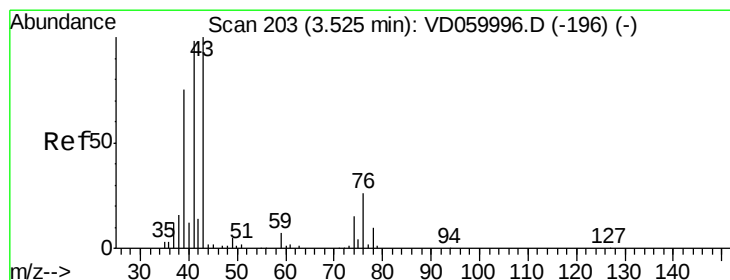
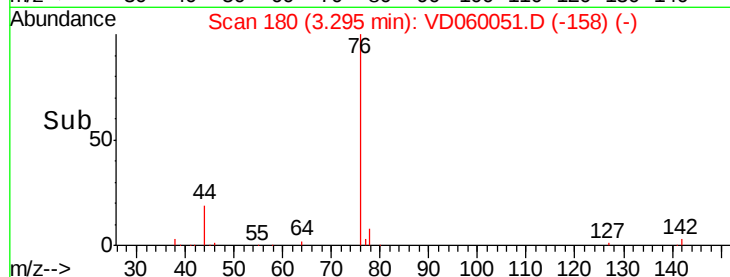
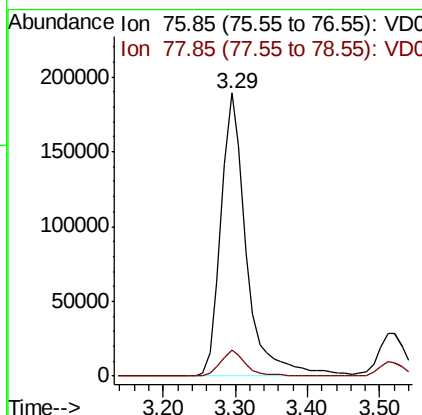
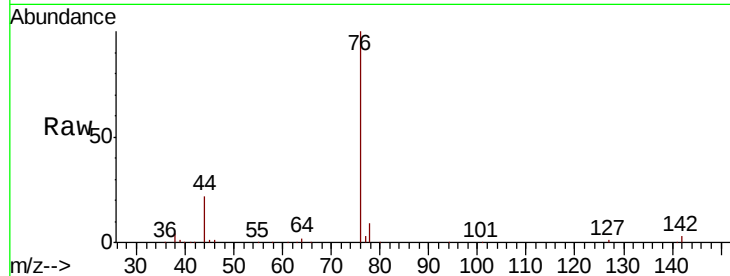
#17
Carbon Disulfide
Concen: 20.308 ug/l
RT: 3.29 min Scan# 180
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

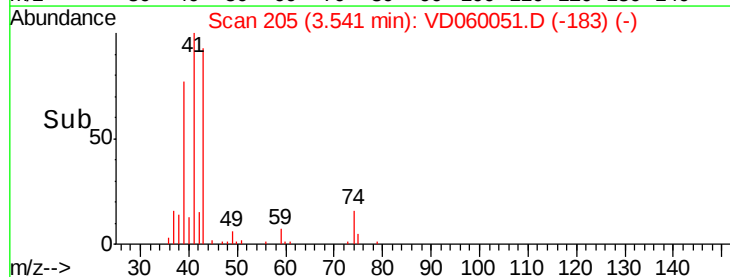
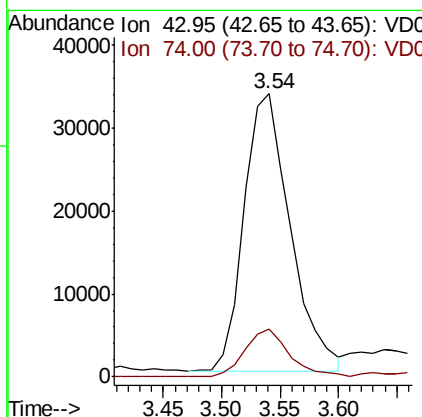
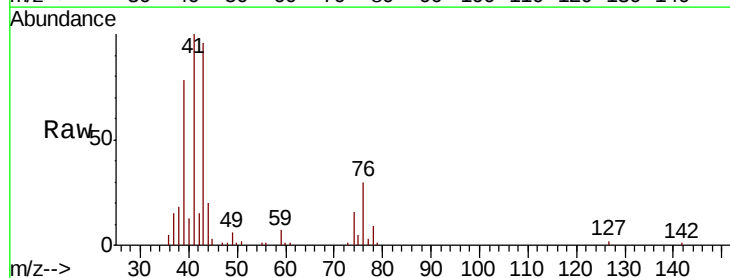
Manual Integrations
APPROVED

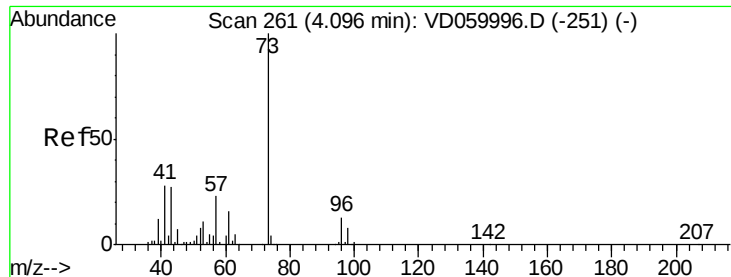
apatel
9/21/2018 12:02:14 PM



#18
Methyl Acetate
Concen: 18.773 ug/l
RT: 3.54 min Scan# 205
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.7	11.8	17.8





#19

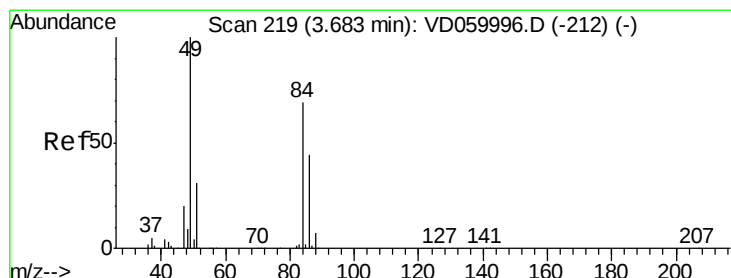
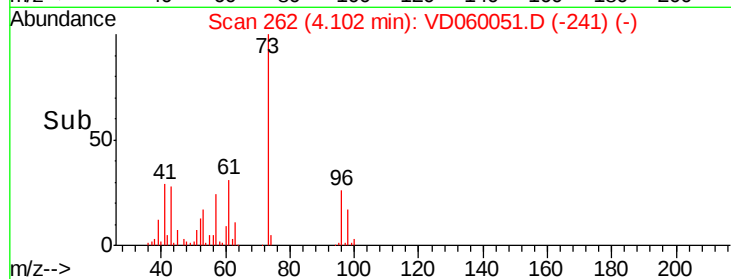
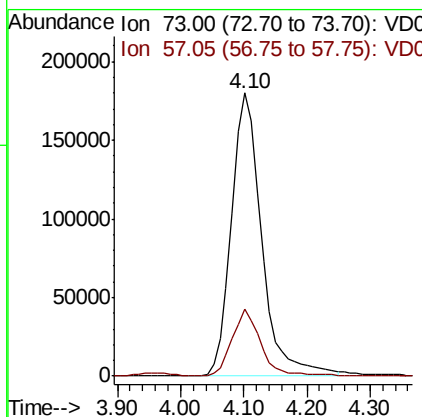
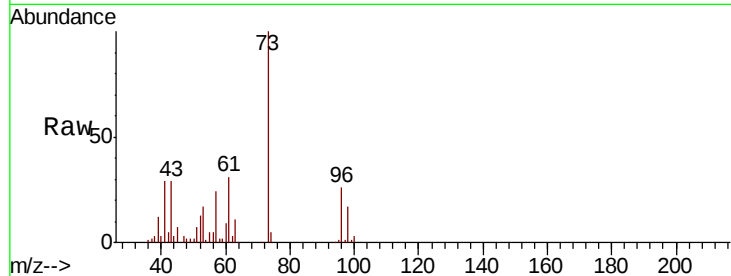
Methyl tert-butyl Ether
 Concen: 19.594 ug/l
 RT: 4.10 min Scan# 262
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.6	18.4	27.6

Manual Integrations
 APPROVED

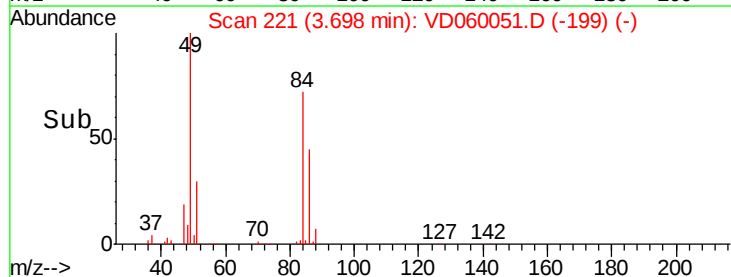
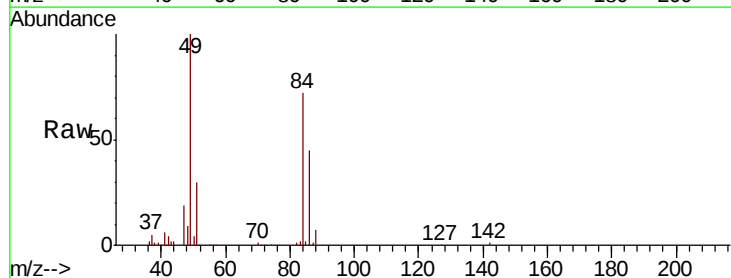
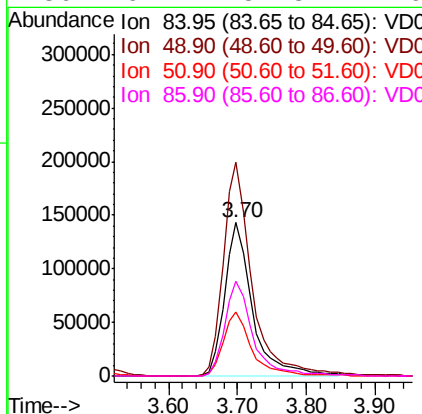
apatel
 9/21/2018 12:02:14 PM

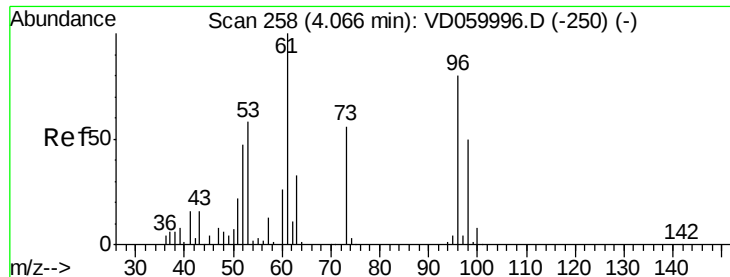


#20

Methylene Chloride
 Concen: 18.596 ug/l
 RT: 3.70 min Scan# 221
 Delta R.T. 0.02 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.2	116.6	175.0
51	41.3	35.9	53.9
86	62.1	51.8	77.6





#21

trans-1,2-Dichloroethene

Concen: 20.221 ug/l

RT: 4.08 min Scan# 260

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

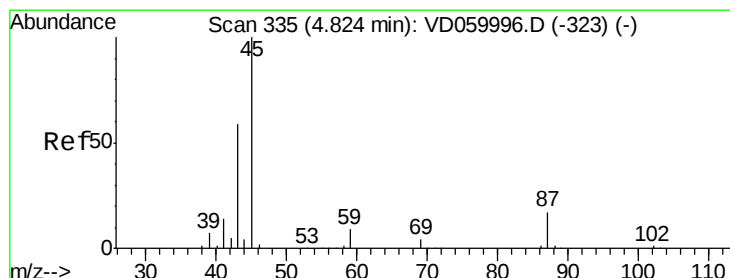
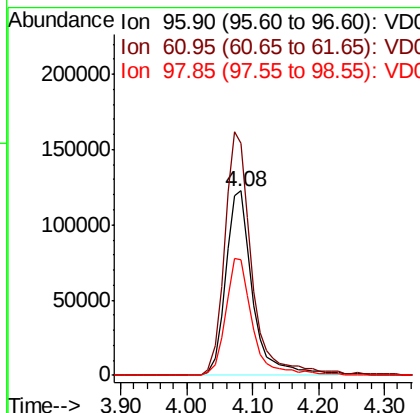
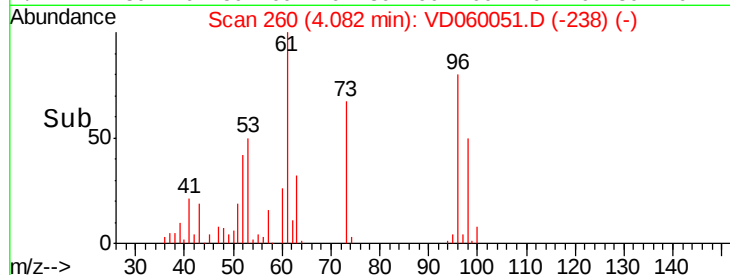
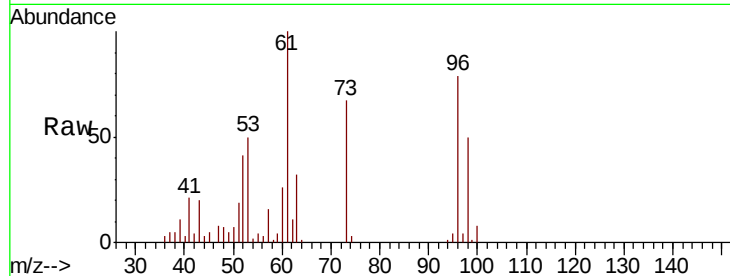
ClientSampleId :

VD0920SBS01

Tot Ion:	96	Resp:	350198
Ion	Ratio	Lower	Upper
96	100		
61	125.9	100.1	150.1
98	62.6	49.5	74.3

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



#22

Diisopropyl ether

Concen: 20.019 ug/l

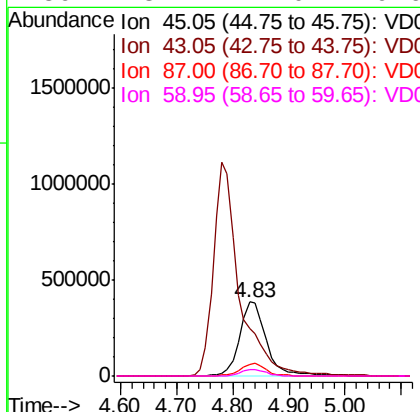
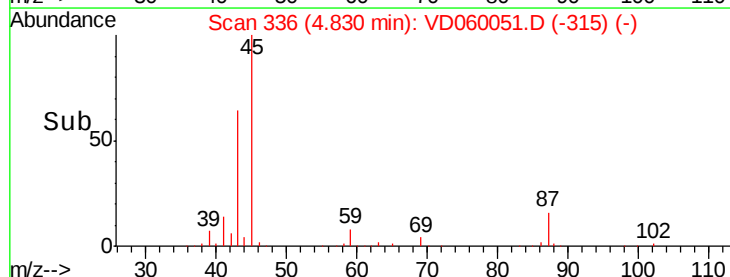
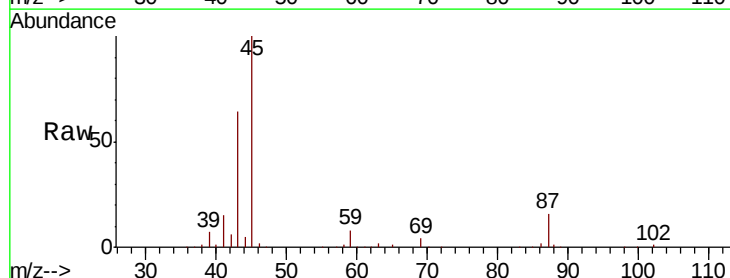
RT: 4.83 min Scan# 336

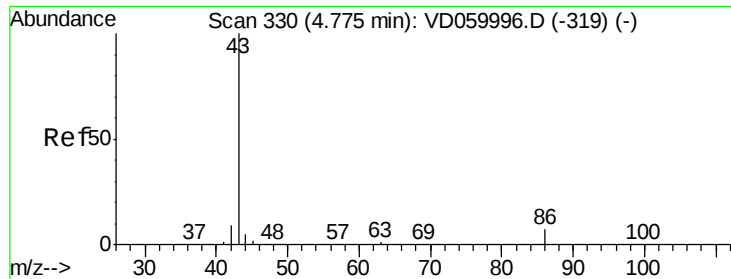
Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion:	45	Resp:	1270964
Ion	Ratio	Lower	Upper
45	100		
43	64.1	47.1	70.7
87	15.9	14.2	21.2
59	8.2	7.0	10.6





#23

Vinyl Acetate

Concen: 99.740 ug/l

RT: 4.78 min Scan# 331

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 43 Resp: 3587355

Ion Ratio Lower Upper

43 100

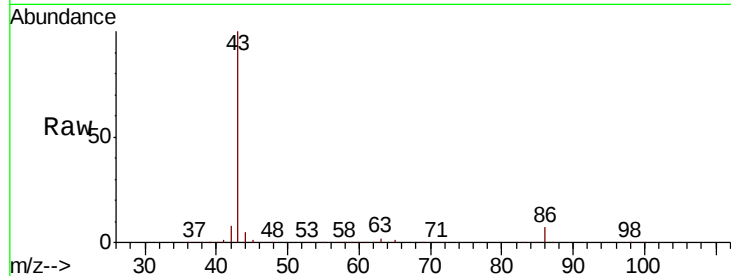
86 6.8 5.5 8.3

Manual Integrations

APPROVED

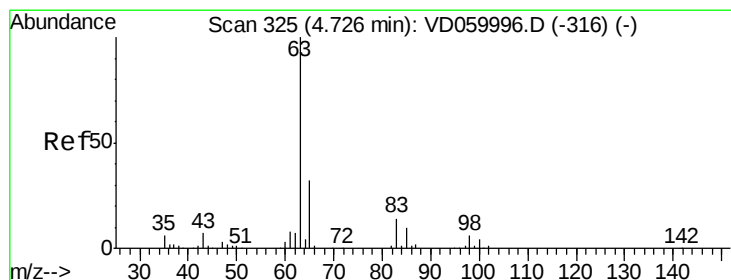
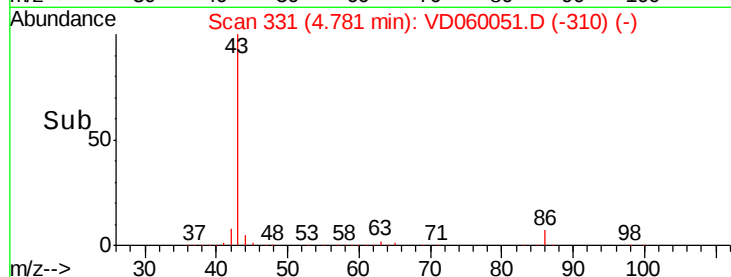
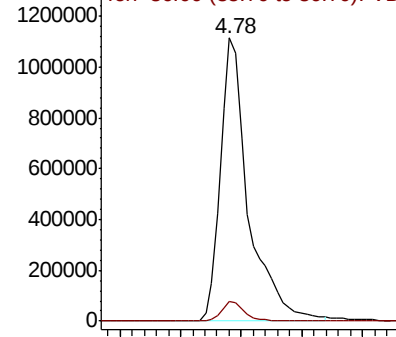
apatel

9/21/2018 12:02:14 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.492 ug/l

RT: 4.73 min Scan# 326

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

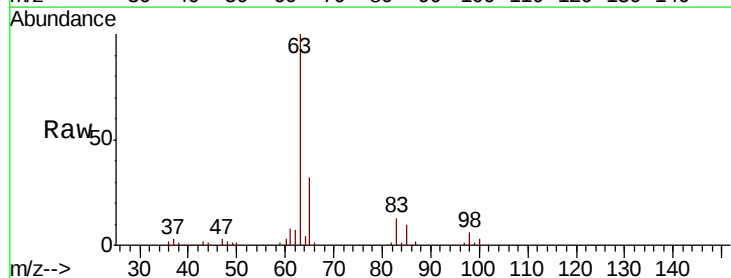
Tgt Ion: 63 Resp: 583821

Ion Ratio Lower Upper

63 100

98 5.6 2.9 8.6

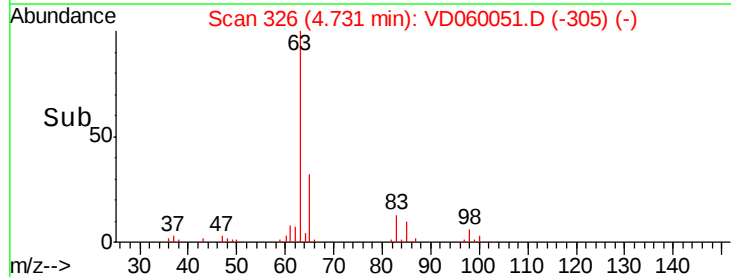
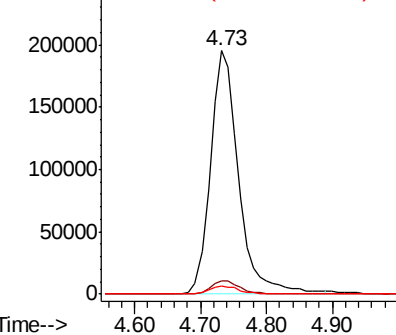
100 3.5 1.8 5.4

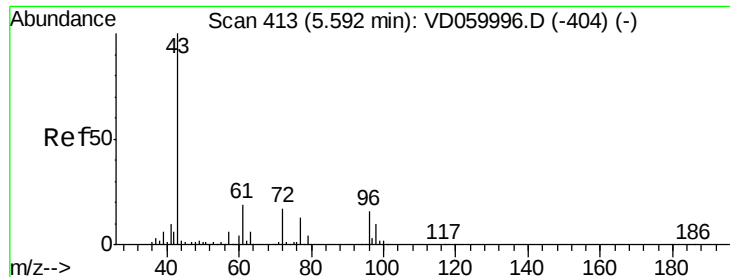


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 107.200 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 43 Resp: 698591

Ion Ratio Lower Upper

43 100

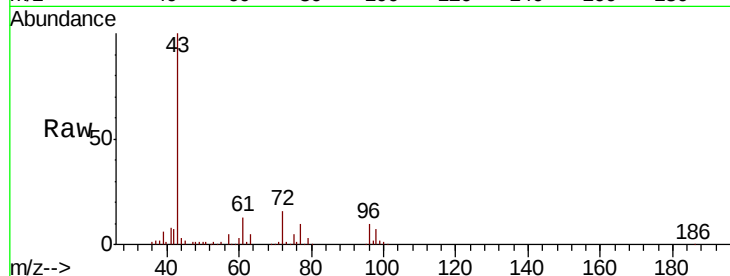
72 16.3 13.6 20.4

Manual Integrations

APPROVED

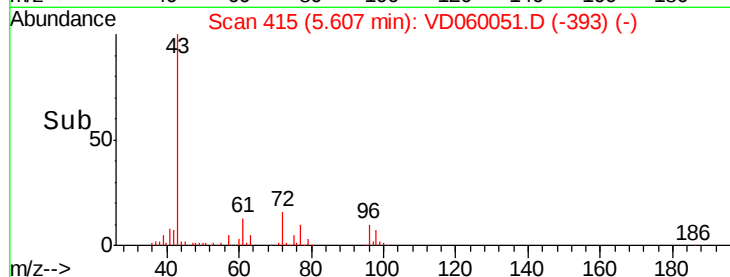
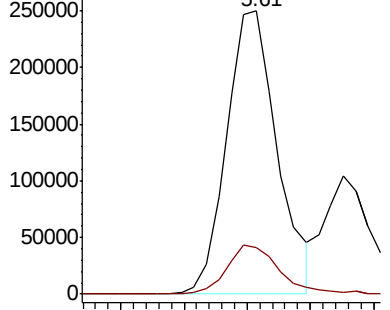
apatel

9/21/2018 12:02:14 PM

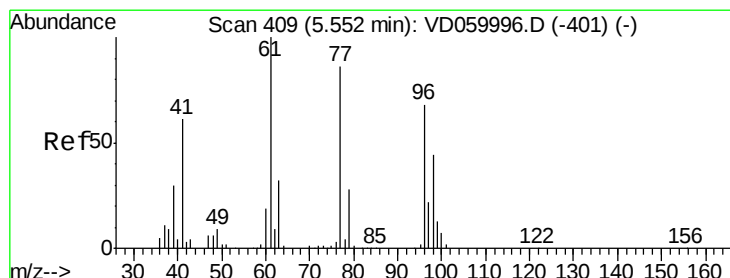


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 21.215 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.02 min

Lab File: VD060051.D

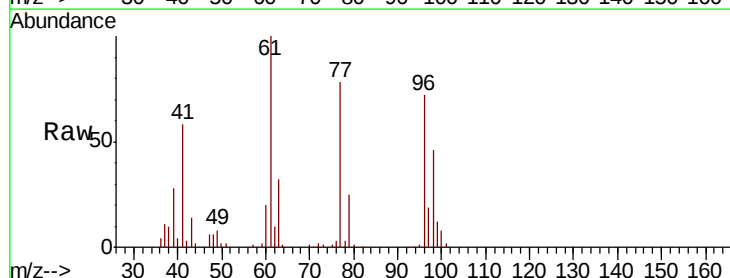
Acq: 20 Sep 2018 12:35

Tgt Ion: 77 Resp: 469902

Ion Ratio Lower Upper

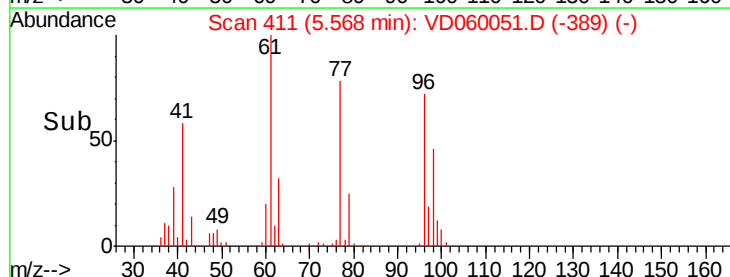
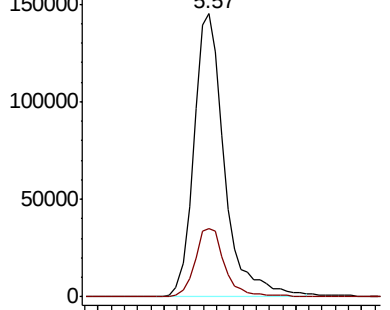
77 100

97 24.2 12.7 38.1

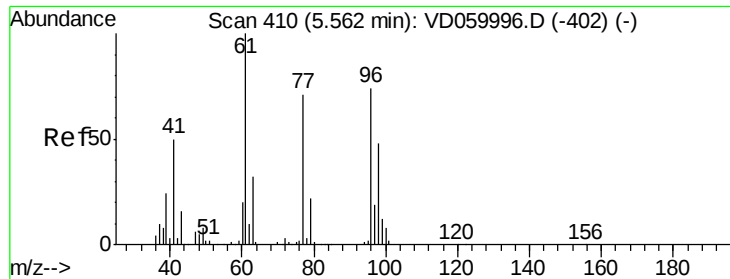


Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->



#27

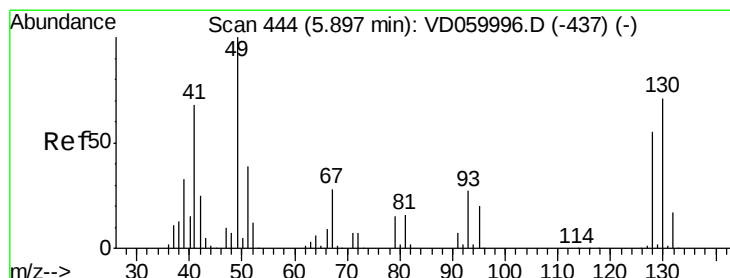
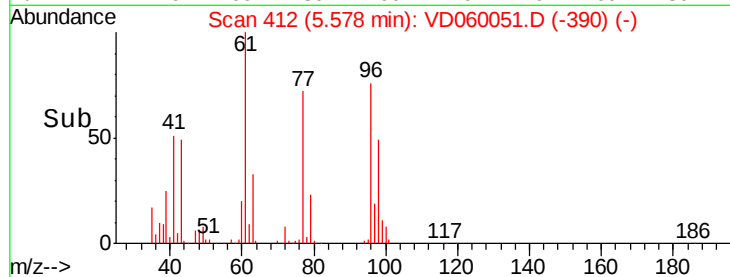
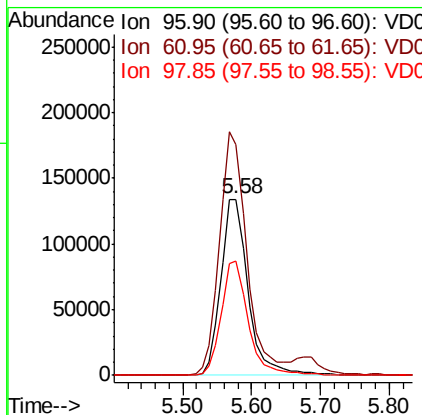
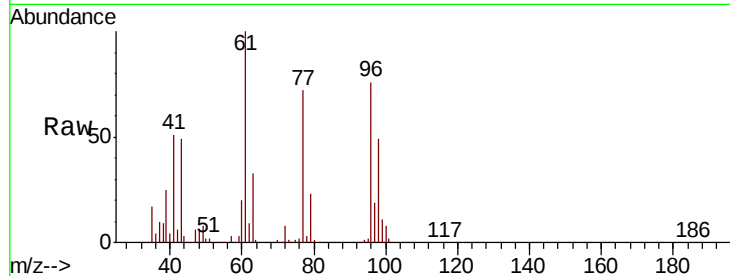
cis-1,2-Dichloroethene
 Concen: 20.367 ug/l
 RT: 5.58 min Scan# 412
 Delta R.T. 0.02 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	131.3	0.0	269.6	
98	64.9	0.0	128.4	

Manual Integrations
 APPROVED

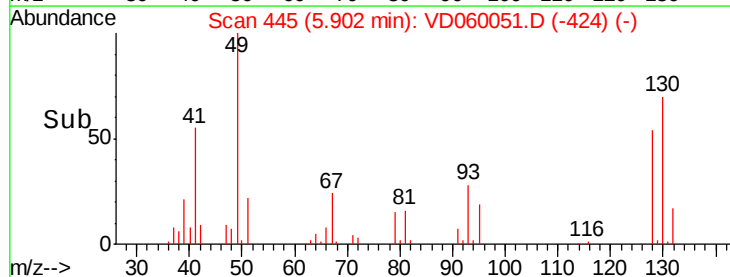
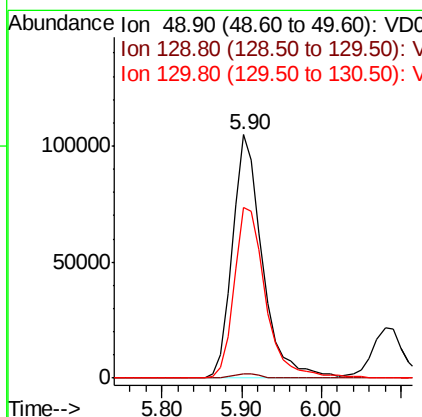
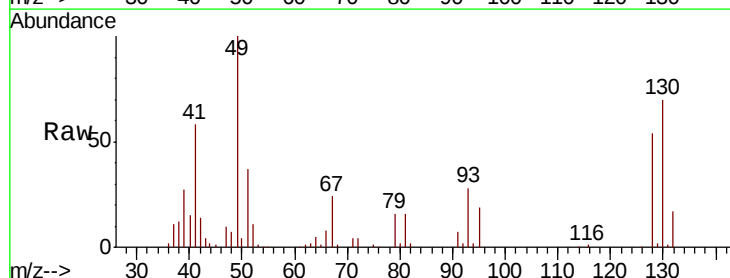
apatel
 9/21/2018 12:02:14 PM



#28

Bromochloromethane
 Concen: 20.112 ug/l
 RT: 5.90 min Scan# 445
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	3.6	
130	69.9	57.1	85.7	





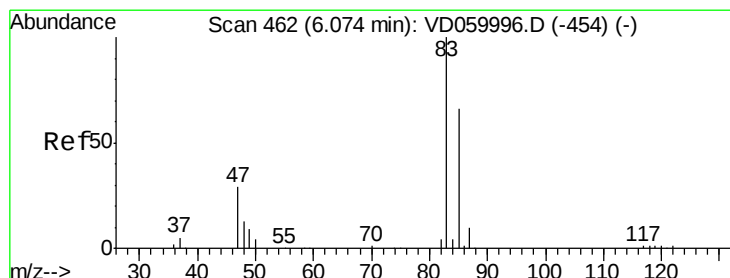
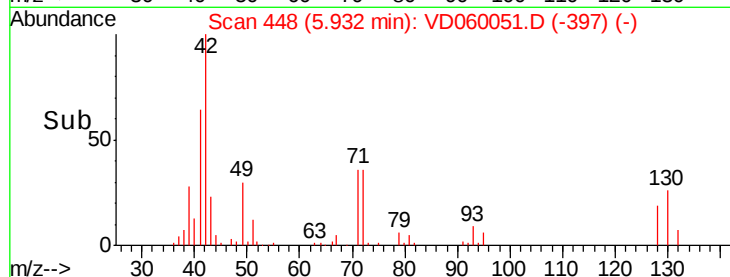
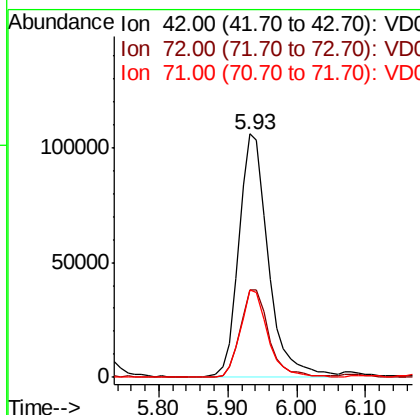
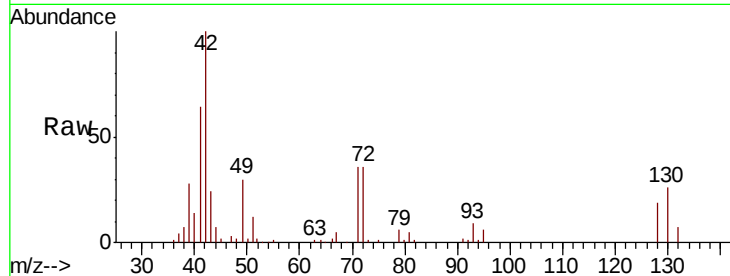
#29
Tetrahydrofuran
Concen: 90.433 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.6	26.9	40.3
71	33.6	26.2	39.4

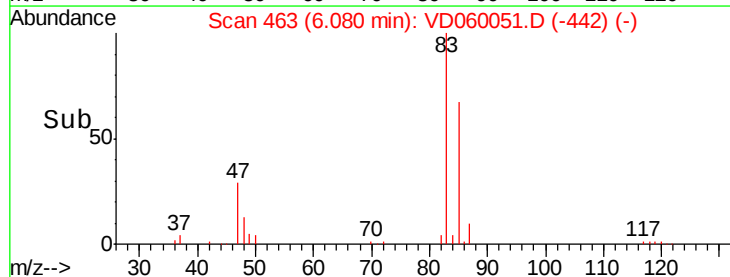
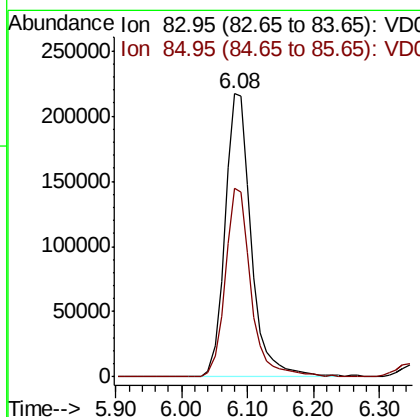
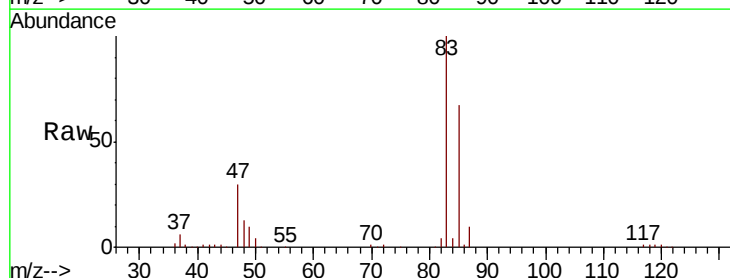
Manual Integrations
APPROVED

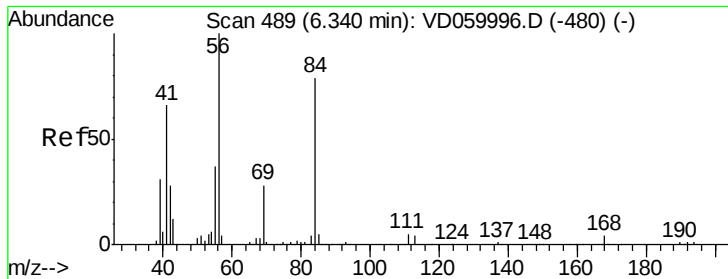
apatel
9/21/2018 12:02:14 PM



#30
Chloroform
Concen: 20.860 ug/l
RT: 6.08 min Scan# 463
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.6	78.8





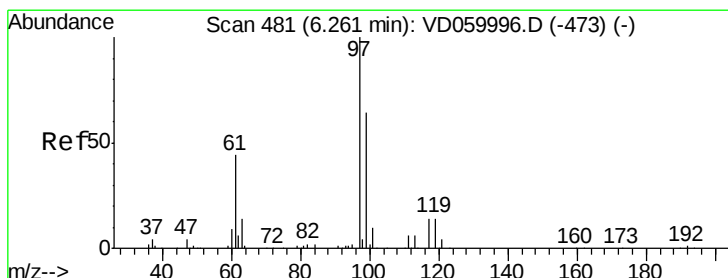
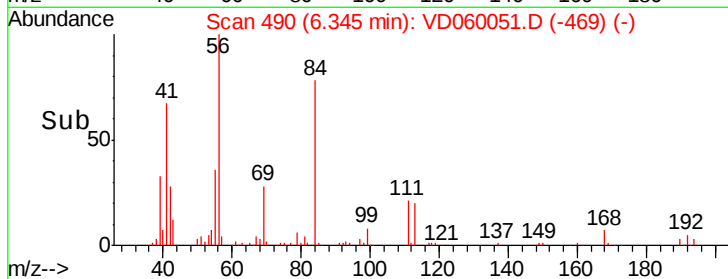
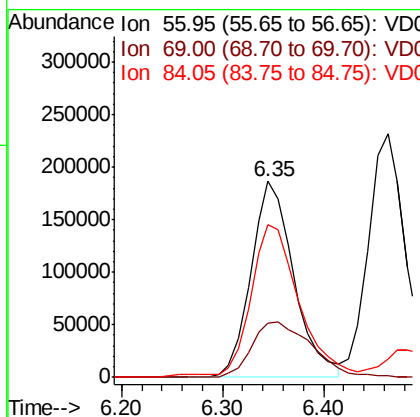
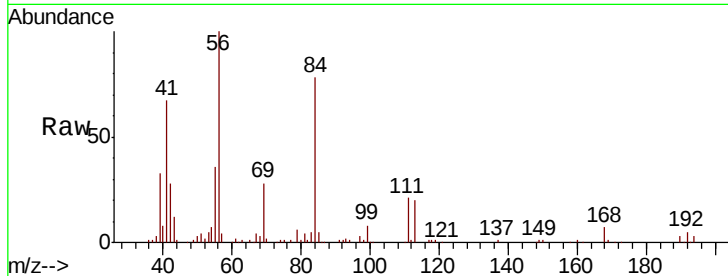
#31
Cyclohexane
Concen: 19.793 ug/l
RT: 6.35 min Scan# 490
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.6	22.7	34.1
84	77.9	64.0	96.0

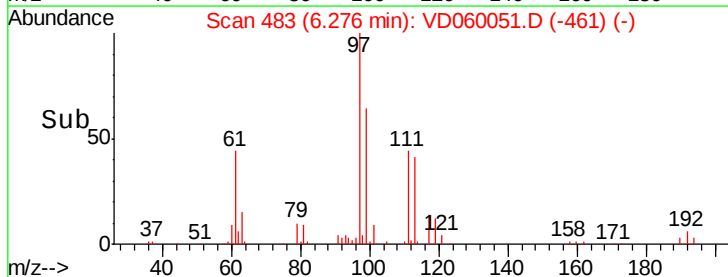
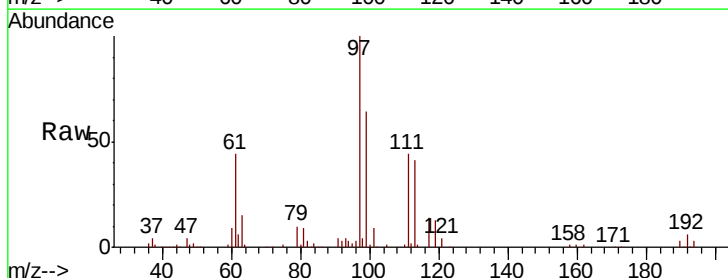
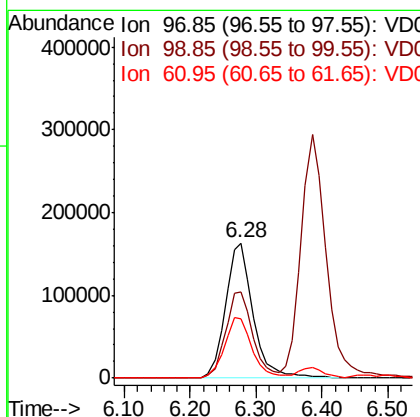
Manual Integrations
APPROVED

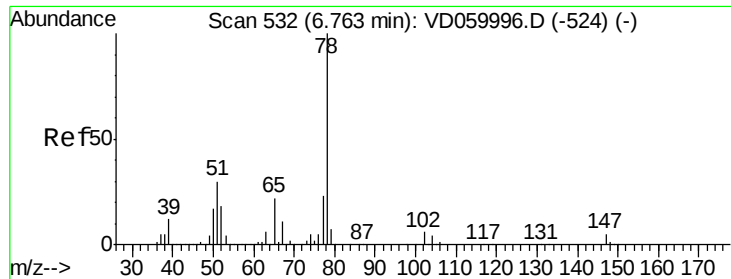
apatel
9/21/2018 12:02:14 PM



#32
1,1,1-Trichloroethane
Concen: 19.807 ug/l
RT: 6.28 min Scan# 483
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	44.1	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 19.807 ug/l

RT: 6.77 min Scan# 533

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 65 Resp: 665752

Ion Ratio Lower Upper

65 100

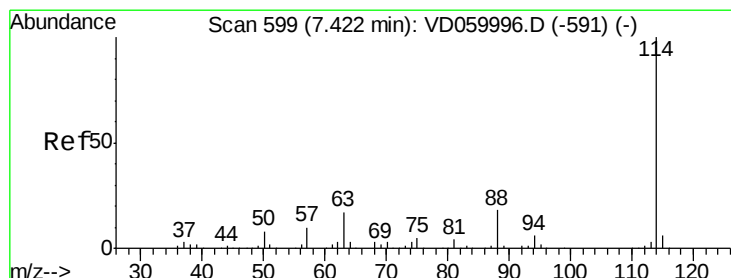
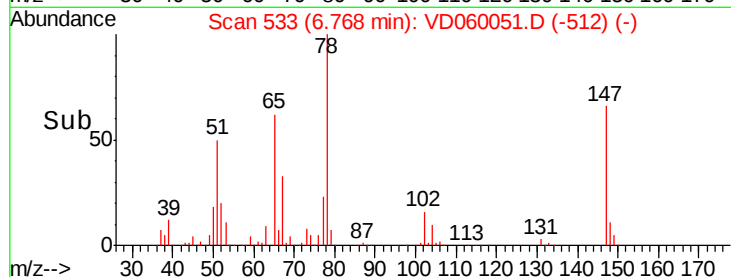
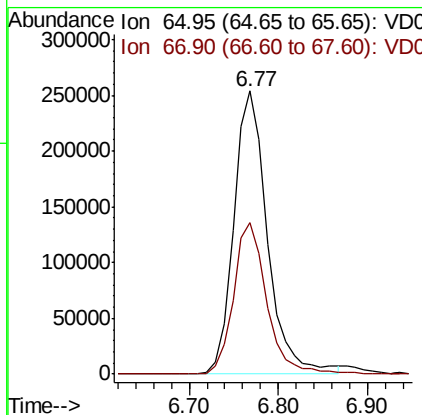
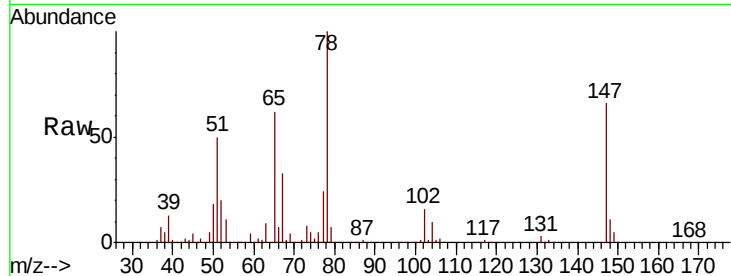
67 53.6 0.0 104.8

Manual Integrations

APPROVED

apatel

9/21/2018 12:02:14 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.43 min Scan# 600

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

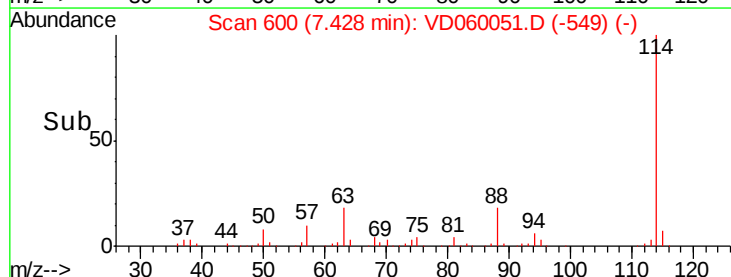
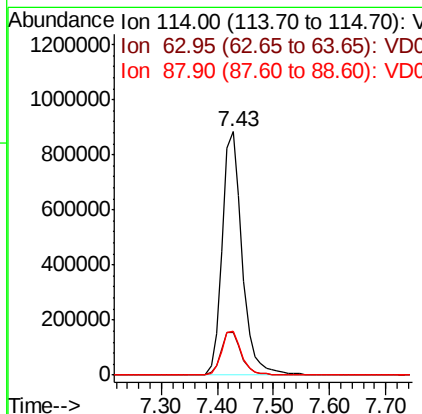
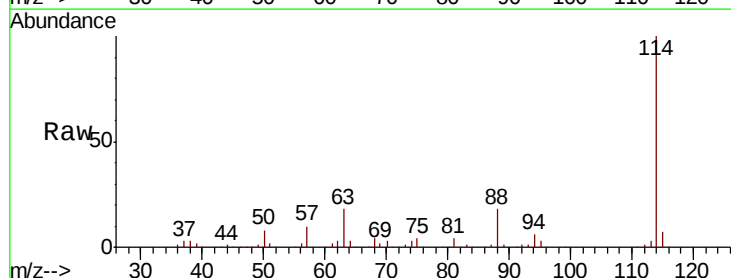
Tgt Ion: 114 Resp: 2182542

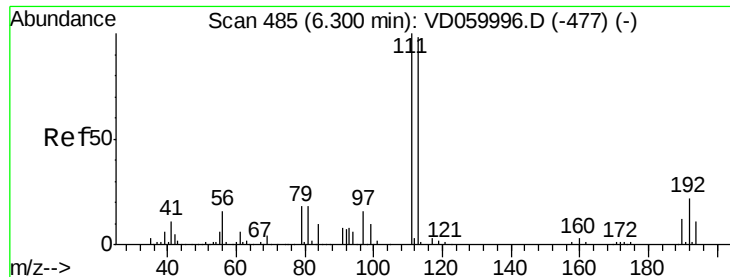
Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 18.3 0.0 35.8





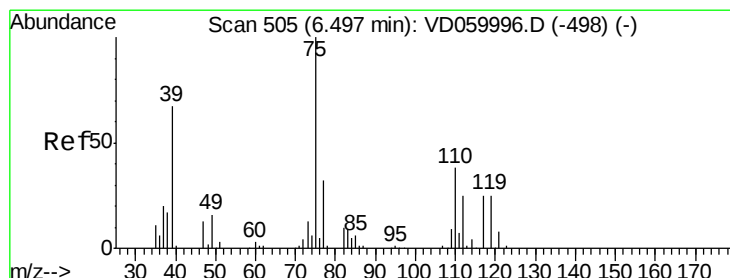
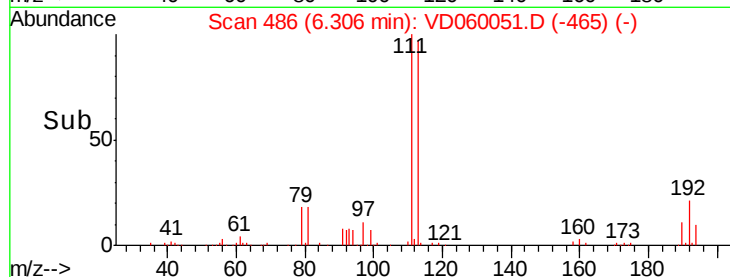
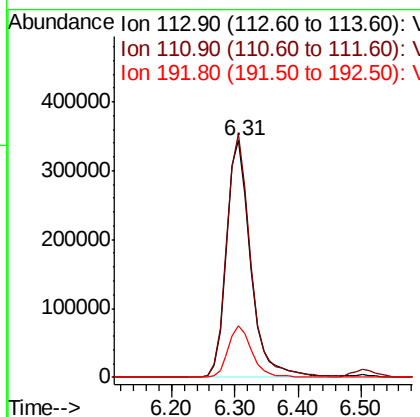
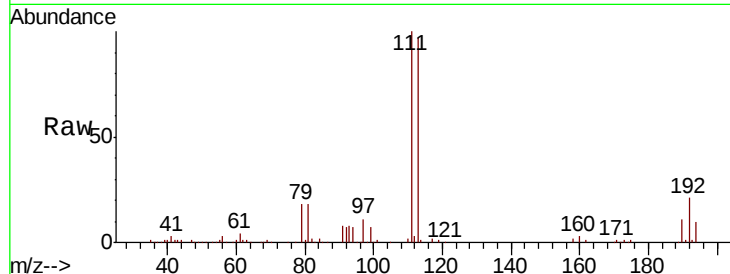
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.8	81.3	121.9	
192	21.8	18.1	27.1	

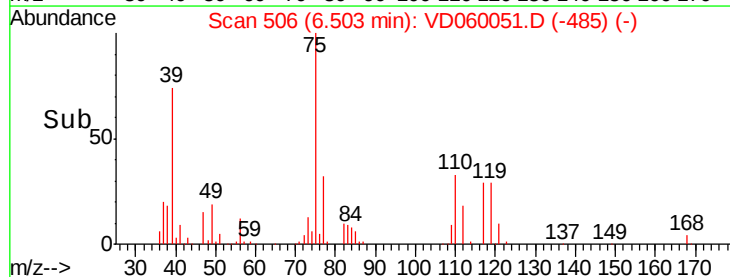
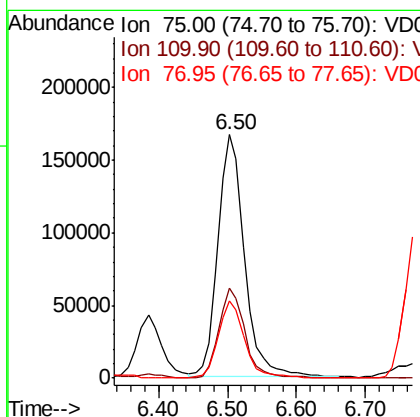
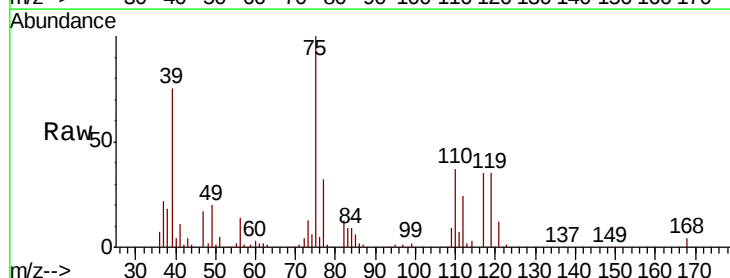
Manual Integrations
 APPROVED

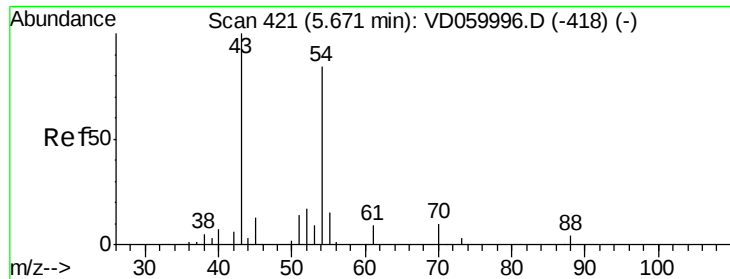
apatel
 9/21/2018 12:02:14 PM



#36
 1,1-Dichloropropene
 Concen: 20.383 ug/l
 RT: 6.50 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	18.9	56.9	
77	31.9	25.3	37.9	





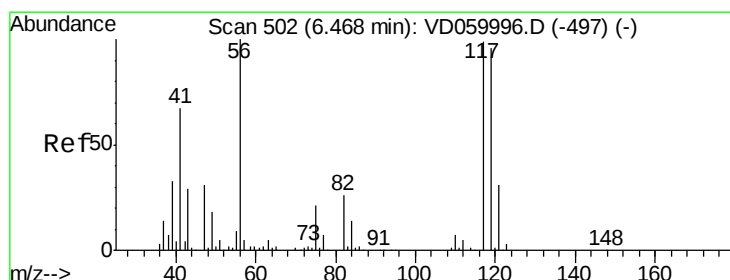
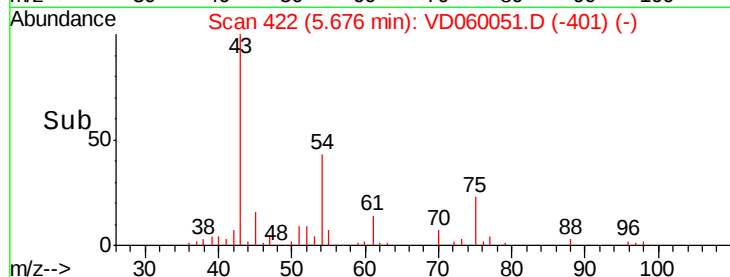
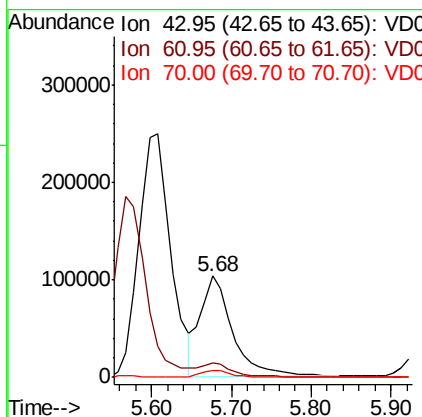
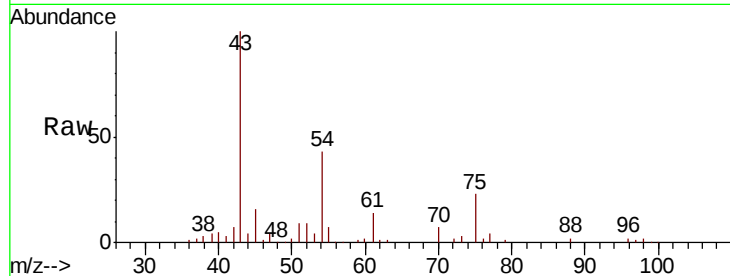
#37
Ethyl Acetate
Concen: 19.331 ug/l
RT: 5.68 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleID :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.2	15.2
70	7.0	6.1	9.1

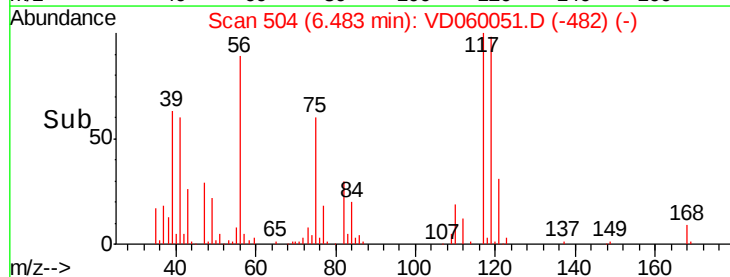
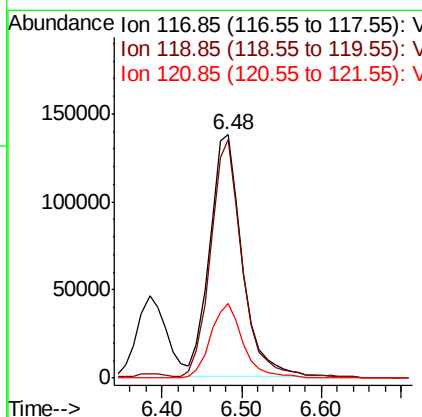
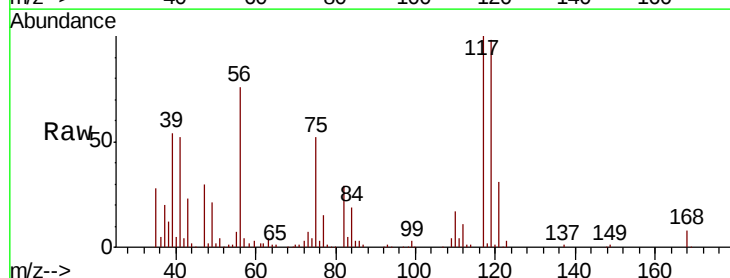
Manual Integrations
APPROVED

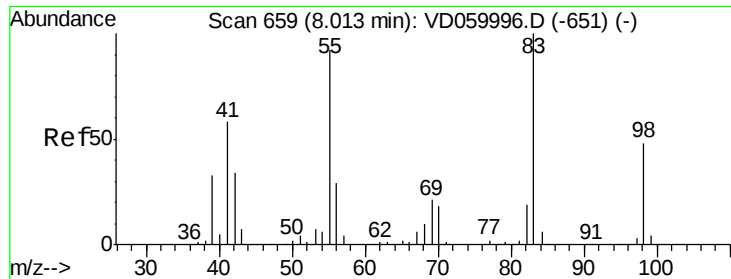
apatel
9/21/2018 12:02:14 PM



#38
Carbon Tetrachloride
Concen: 19.289 ug/l
RT: 6.48 min Scan# 504
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.7	115.1
121	30.8	24.9	37.3





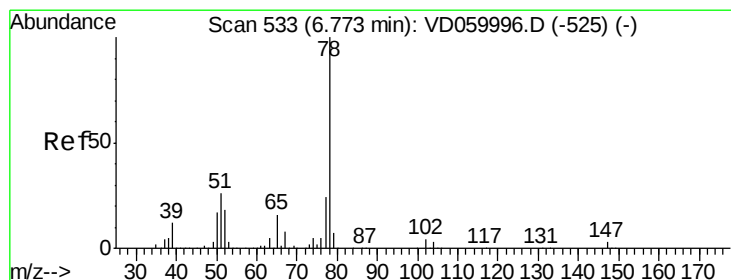
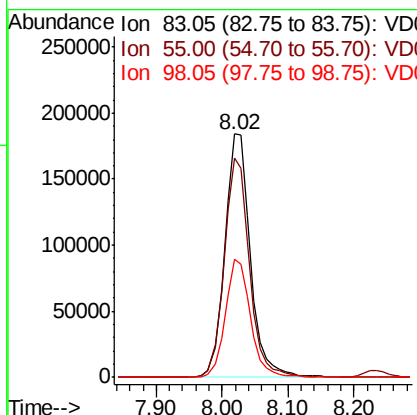
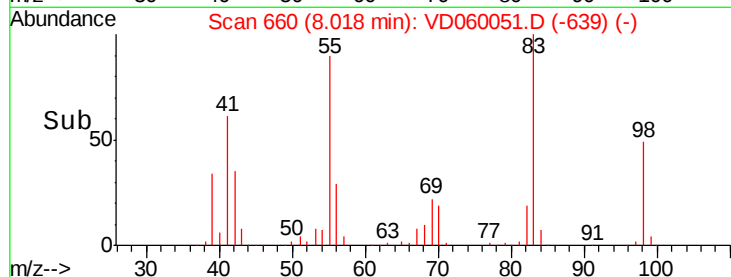
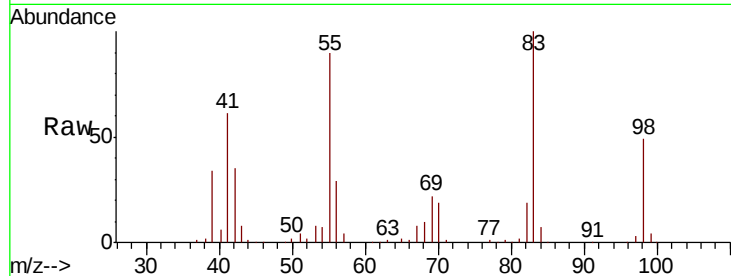
#39
Methvlcvclohexane
Concen: 20.347 ug/l
RT: 8.02 min Scan# 660
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.9	73.8	110.6
98	48.5	38.1	57.1

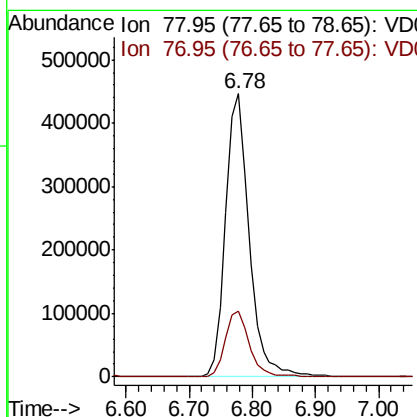
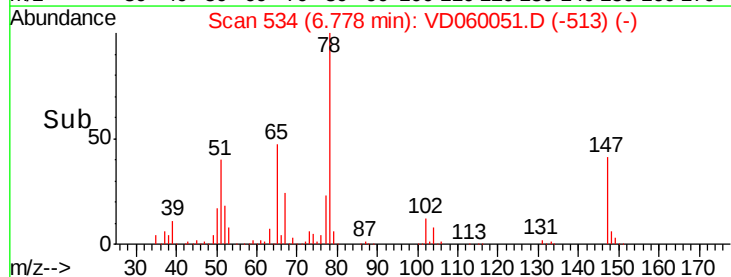
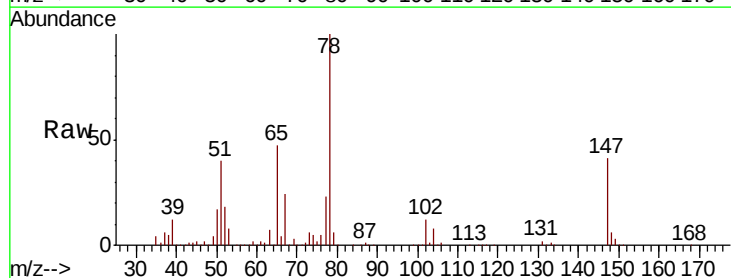
Manual Integrations
APPROVED

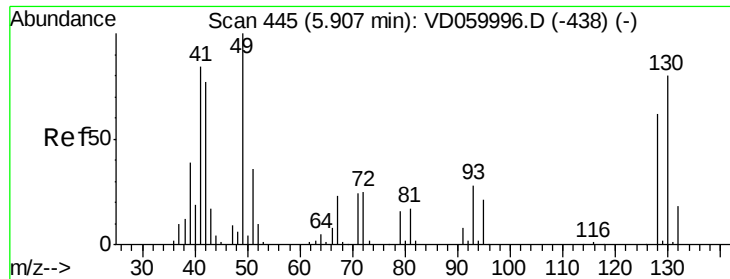
apatel
9/21/2018 12:02:14 PM



#40
Benzene
Concen: 21.039 ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





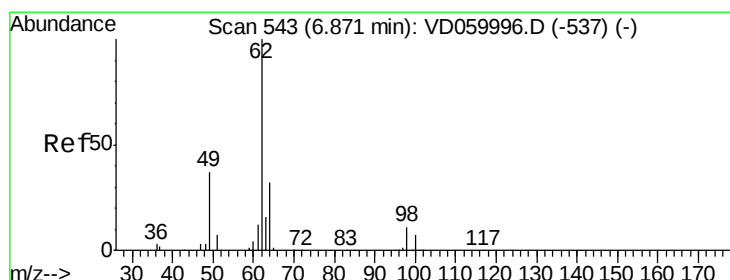
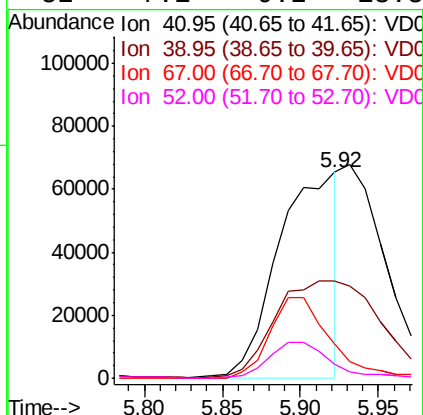
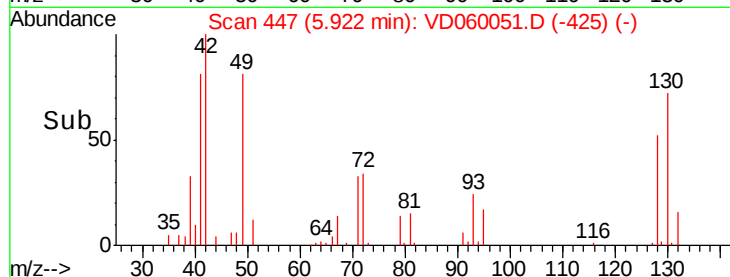
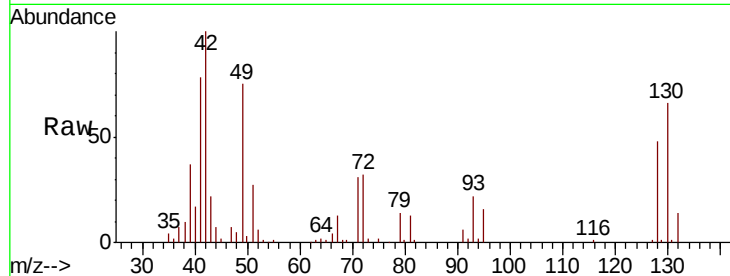
#41
Methacrylonitrile
Concen: 22.663 ug/l m
RT: 5.92 min Scan# 447
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	47.1	37.5	56.3
67	16.9	21.5	32.3
52	7.1	9.2	13.8

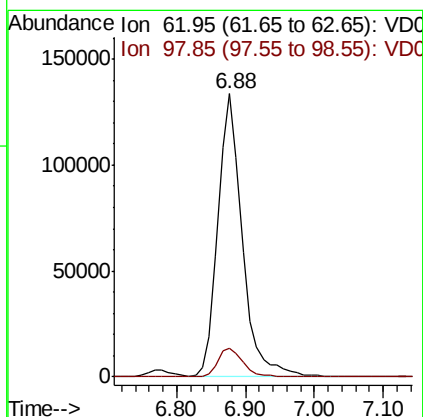
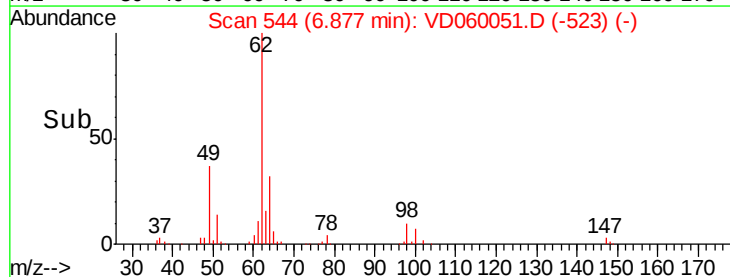
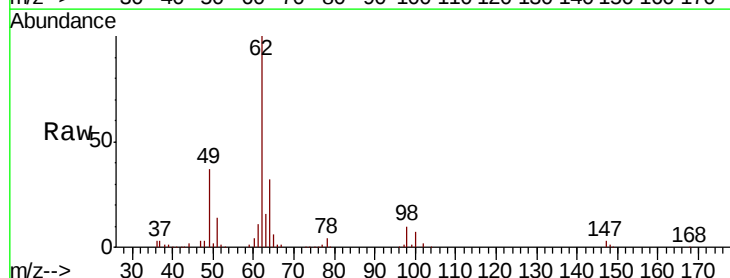
Manual Integrations
APPROVED

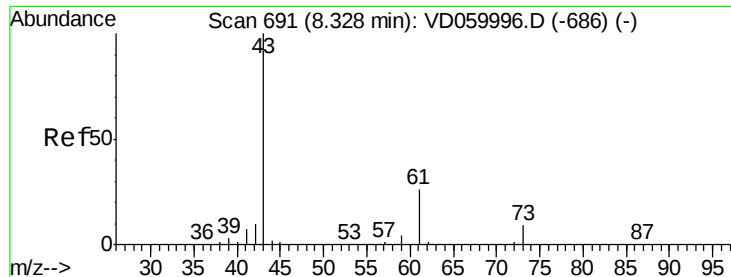
apatel
9/21/2018 12:02:14 PM



#42
1,2-Dichloroethane
Concen: 19.783 ug/l
RT: 6.88 min Scan# 544
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	21.4





#43

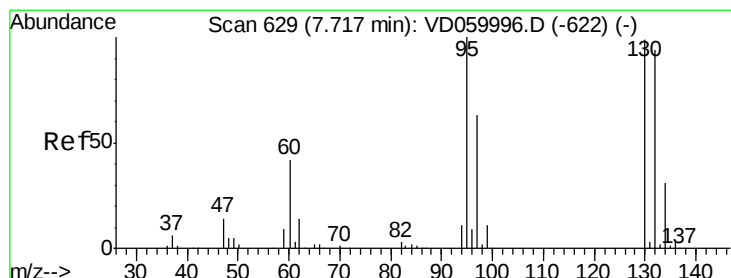
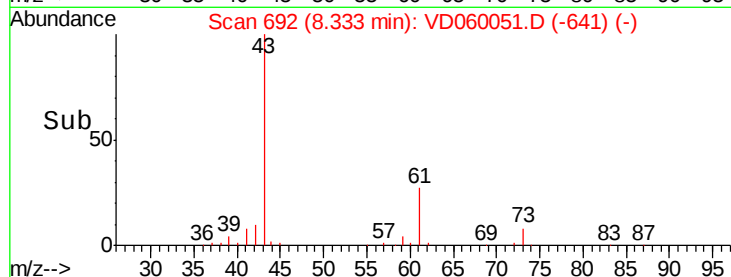
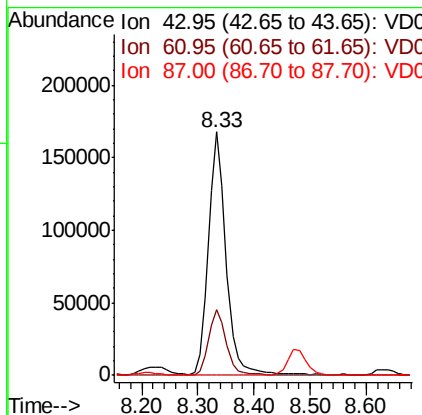
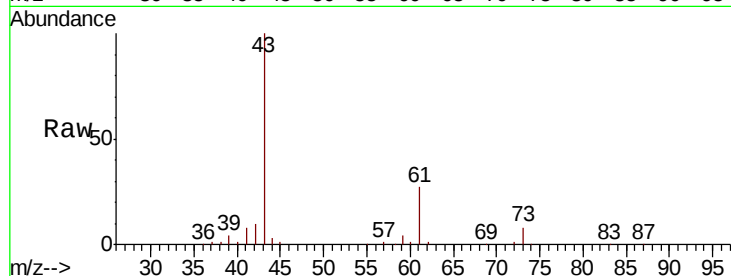
Isopropyl Acetate
 Concen: 18.773 ug/l
 RT: 8.33 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.9	21.0	31.6
87	0.3	0.2	0.2#

Manual Integrations
 APPROVED

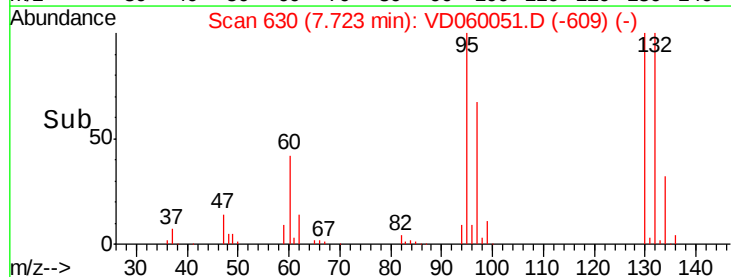
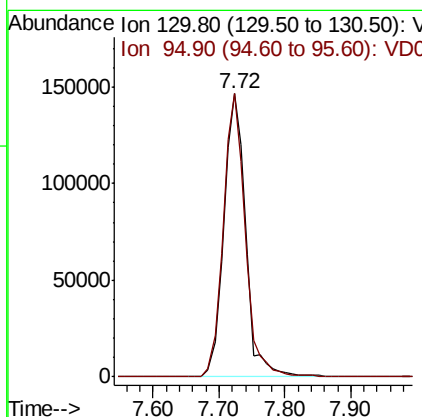
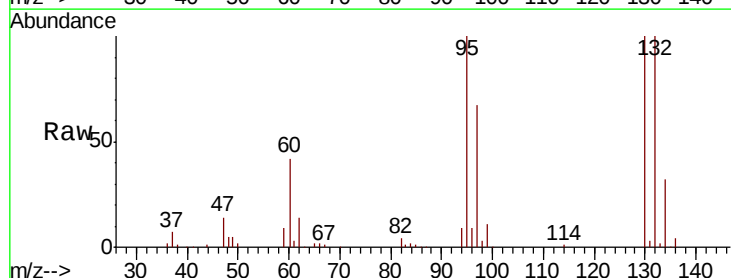
apatel
 9/21/2018 12:02:14 PM

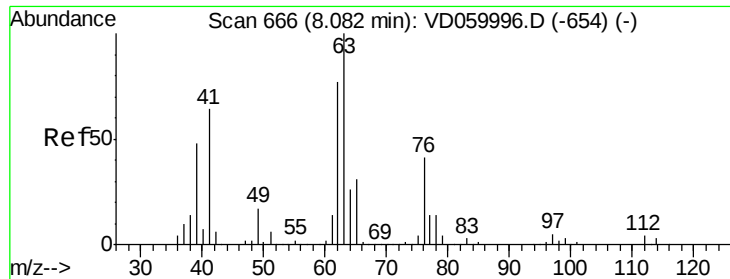


#44

Trichloroethene
 Concen: 19.858 ug/l
 RT: 7.72 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.9	0.0	202.0





#45

1,2-Dichloropropane

Concen: 20.608 ug/l

RT: 8.09 min Scan# 667

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 63 Resp: 304500

Ion Ratio Lower Upper

63 100

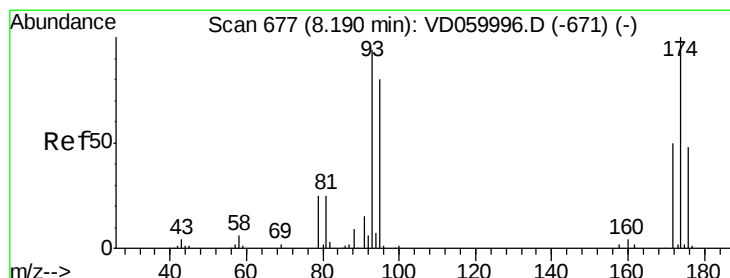
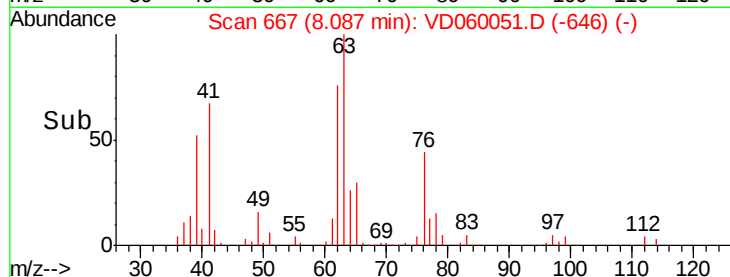
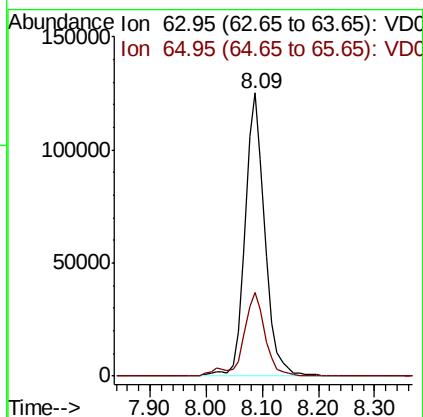
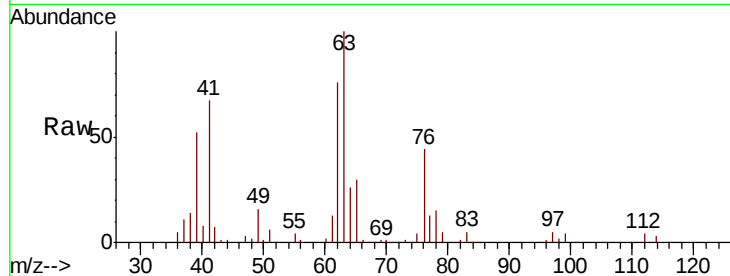
65 29.7 24.6 37.0

Manual Integrations

APPROVED

apatel

9/21/2018 12:02:14 PM



#46

Dibromomethane

Concen: 19.613 ug/l

RT: 8.20 min Scan# 678

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

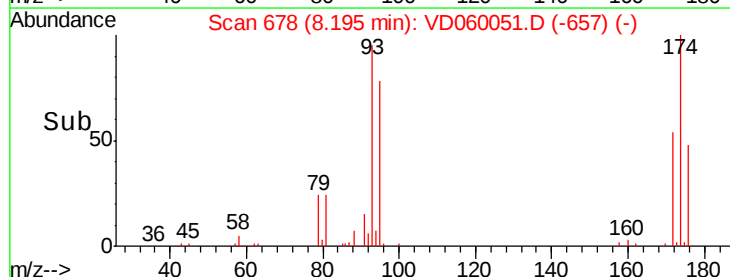
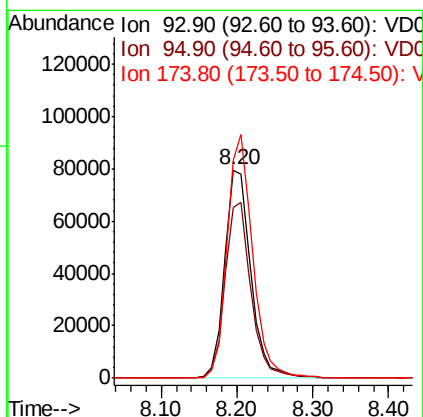
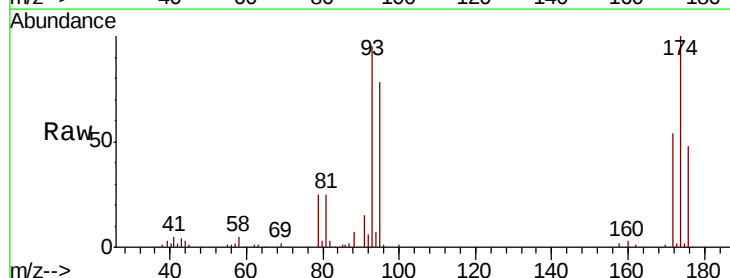
Tgt Ion: 93 Resp: 189086

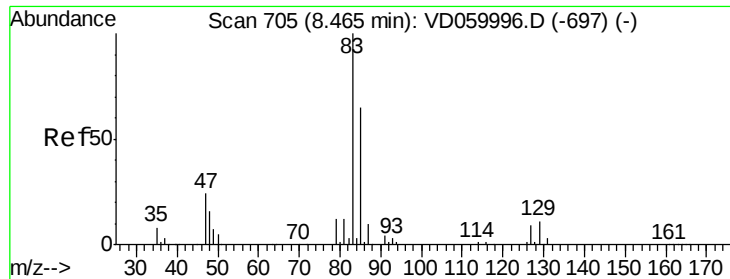
Ion Ratio Lower Upper

93 100

95 81.8 68.0 102.0

174 104.8 85.4 128.2





#47

Bromodichloromethane

Concen: 20.230 ug/l

RT: 8.47 min Scan# 706

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

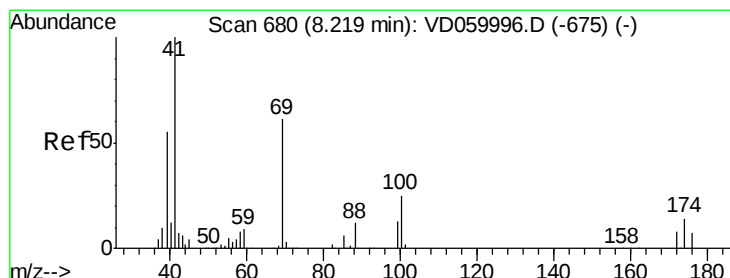
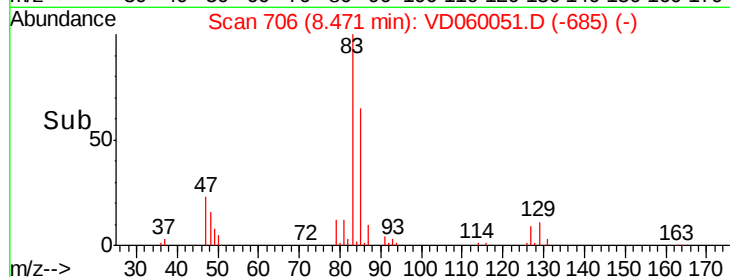
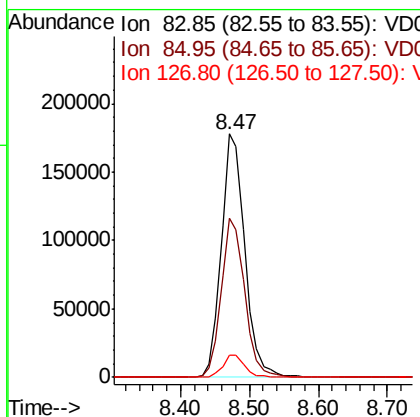
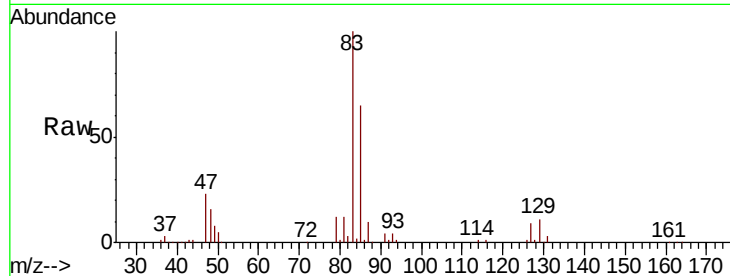
ClientSampleId :

VD0920SBS01

Tot Ion:	83	Resp:	420498
Ion Ratio	Lower	Upper	
83	100		
85	65.2	51.9	77.9
127	9.0	6.8	10.2

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



#48

Methyl methacrylate

Concen: 18.858 ug/l

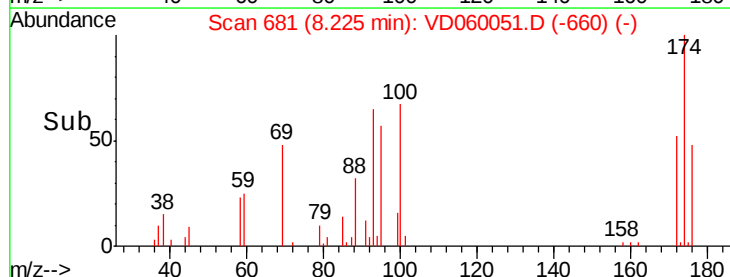
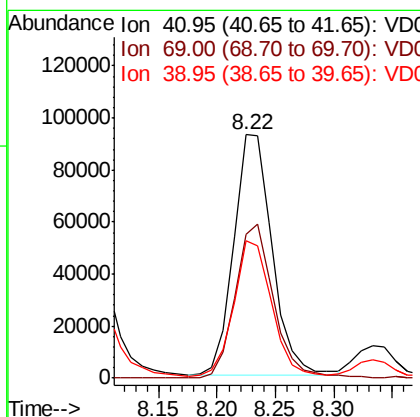
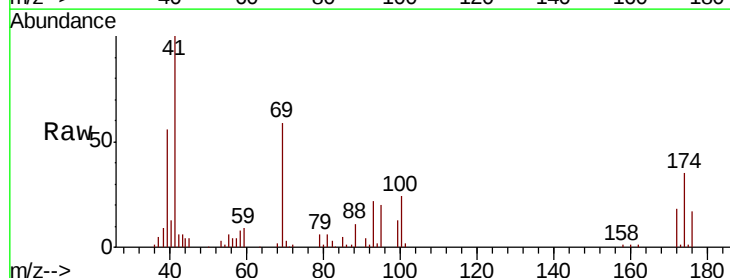
RT: 8.22 min Scan# 681

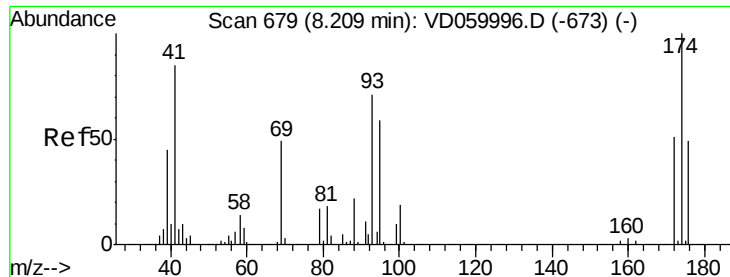
Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion:	41	Resp:	209650
Ion Ratio	Lower	Upper	
41	100		
69	59.0	48.3	72.5
39	56.3	44.1	66.1





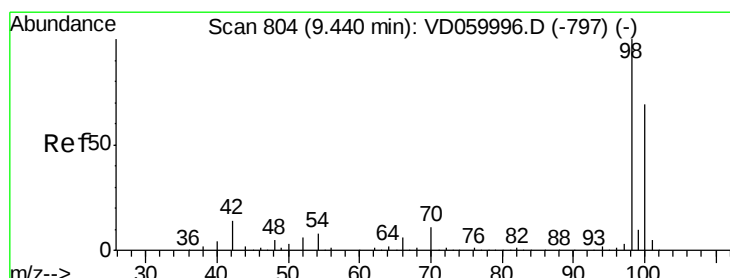
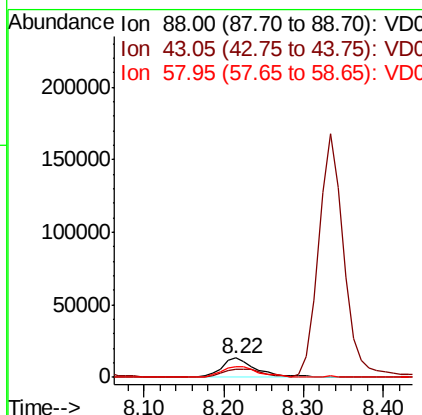
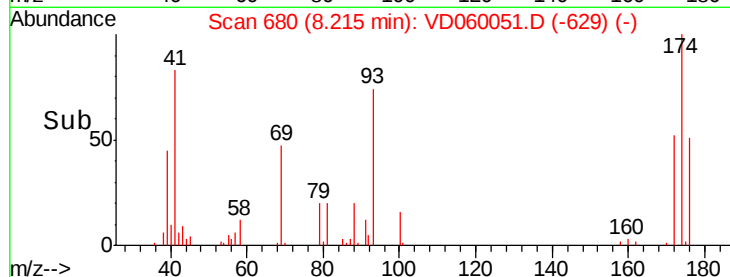
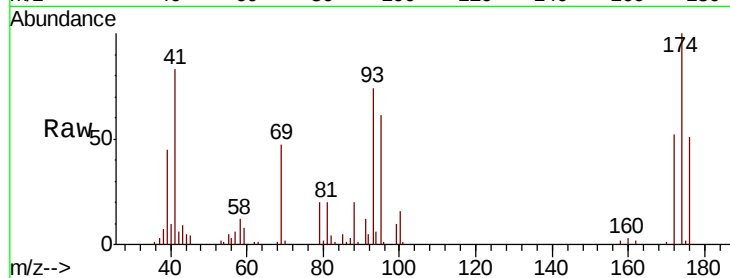
#49
1,4-Dioxane
Concen: 356.485 ug/l
RT: 8.22 min Scan# 680
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 88 Resp: 39364
Ion Ratio Lower Upper
88 100
43 42.7 36.2 54.2
58 58.7 51.0 76.6

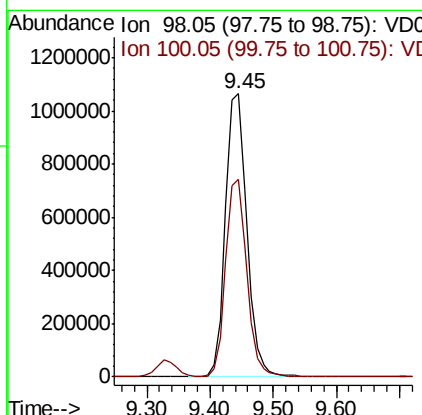
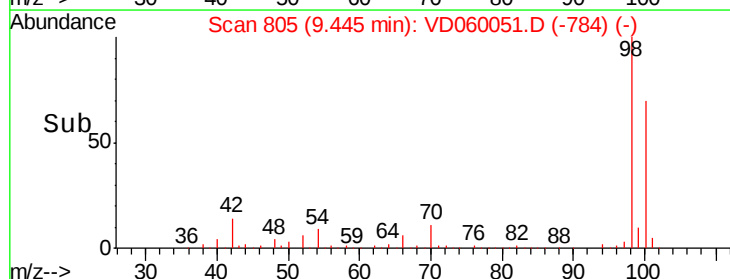
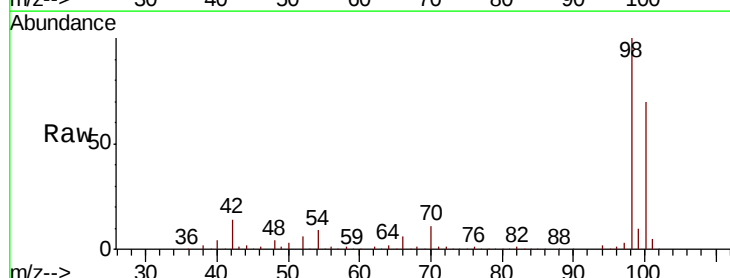
Manual Integrations
APPROVED

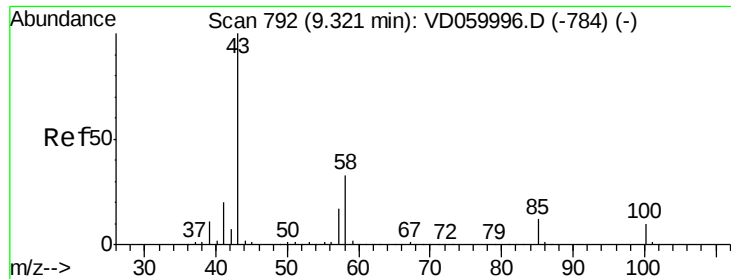
apatel
9/21/2018 12:02:14 PM



#50
Toluene-d8
Concen: 356.485 ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 98 Resp: 2498400
Ion Ratio Lower Upper
98 100
100 69.9 55.8 83.6





#51

4-Methyl-2-Pentanone

Concen: 96.137 ug/l

RT: 9.33 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 43 Resp: 1422987

Ion Ratio Lower Upper

43 100

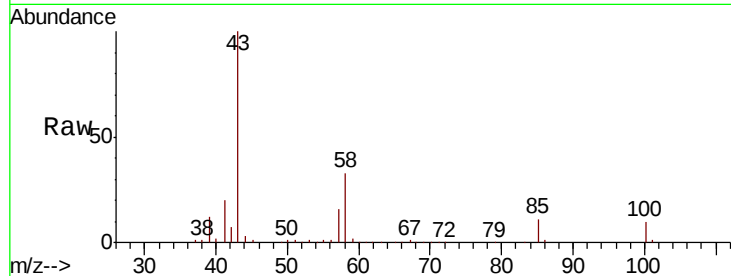
58 33.0 26.4 39.6

Manual Integrations

APPROVED

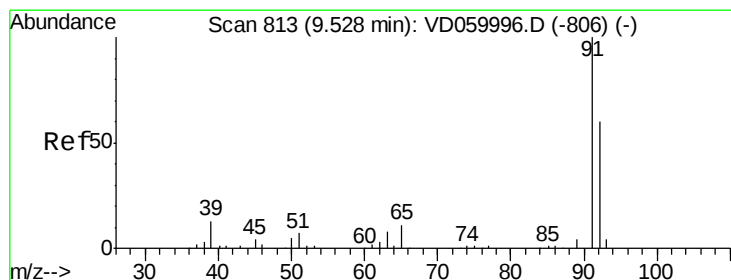
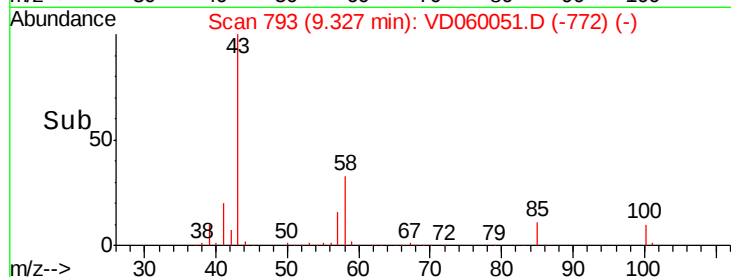
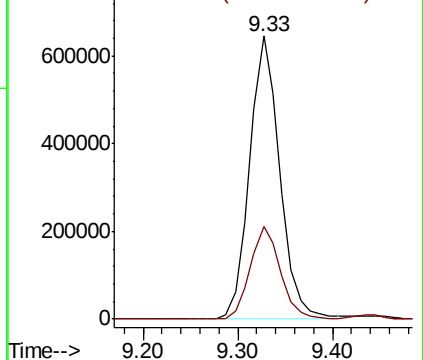
apatel

9/21/2018 12:02:14 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.127 ug/l

RT: 9.53 min Scan# 814

Delta R.T. 0.01 min

Lab File: VD060051.D

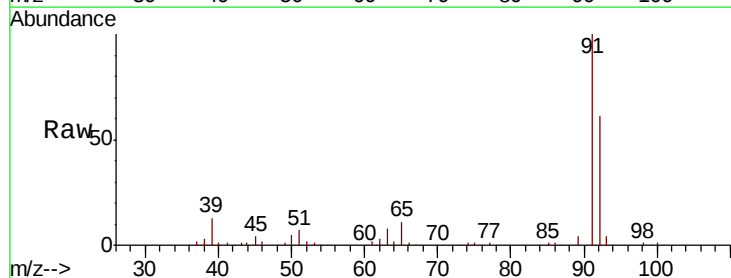
Acq: 20 Sep 2018 12:35

Tgt Ion: 92 Resp: 712879

Ion Ratio Lower Upper

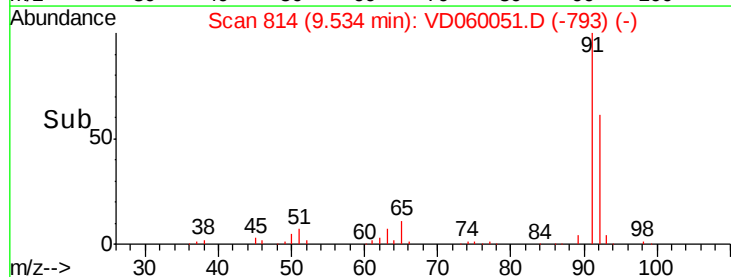
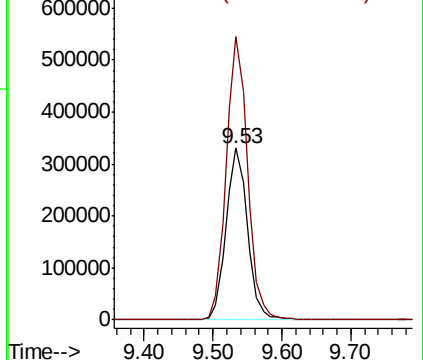
92 100

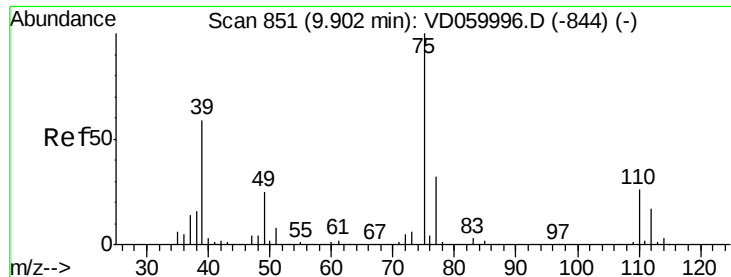
91 164.9 132.3 198.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





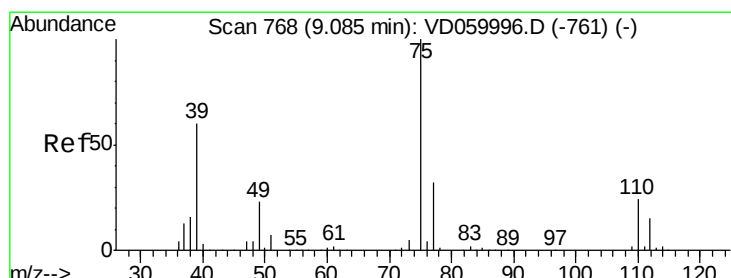
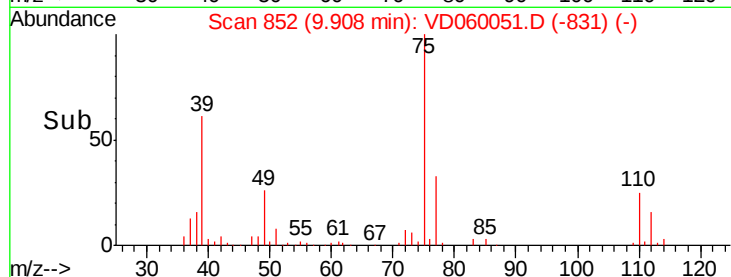
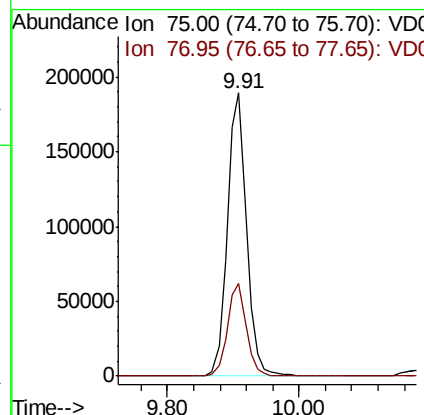
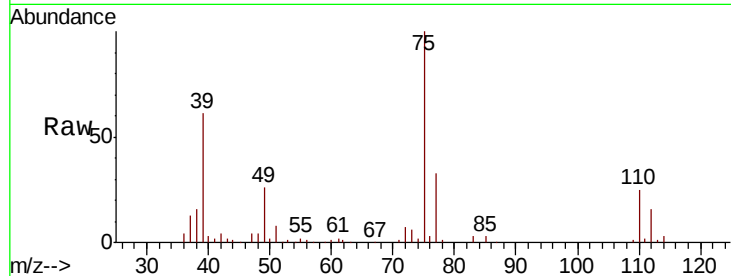
#53
 t-1,3-Dichloropropene
 Concen: 19.797 ug/l
 RT: 9.91 min Scan# 852
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion: 75 Resp: 383778
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.6 38.4

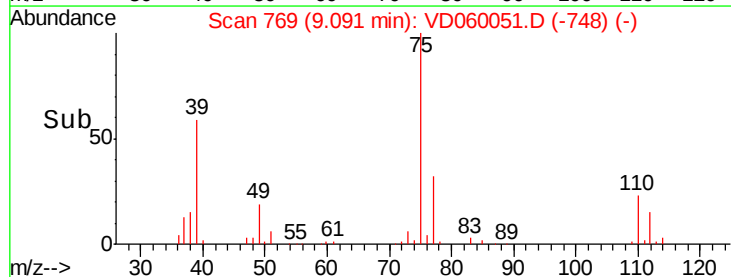
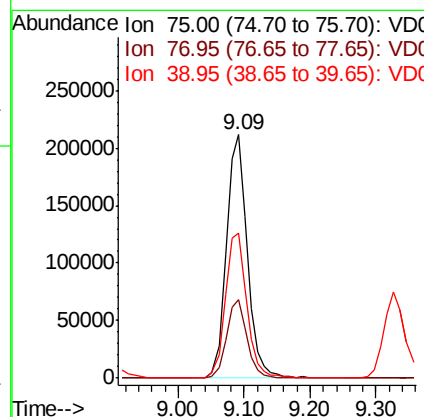
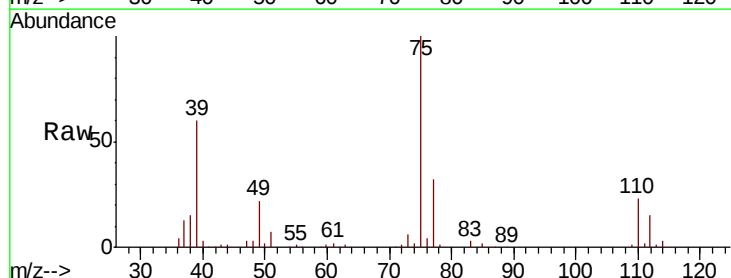
Manual Integrations
 APPROVED

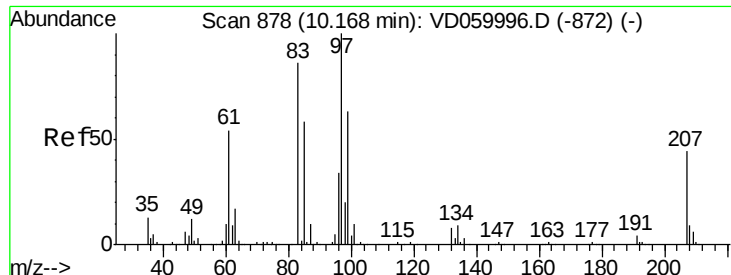
apatel
 9/21/2018 12:02:14 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.294 ug/l
 RT: 9.09 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion: 75 Resp: 470050
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.5 38.3
 39 59.7 48.0 72.0





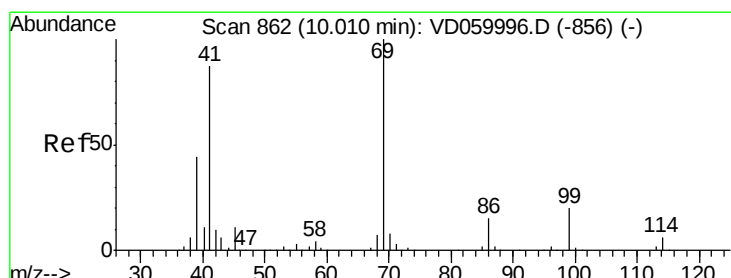
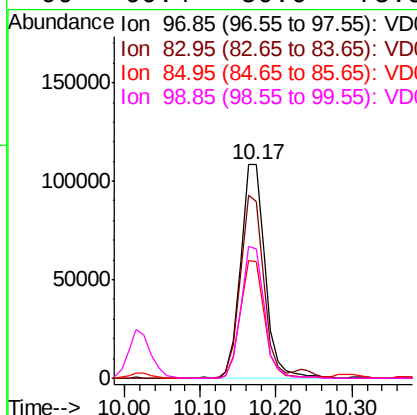
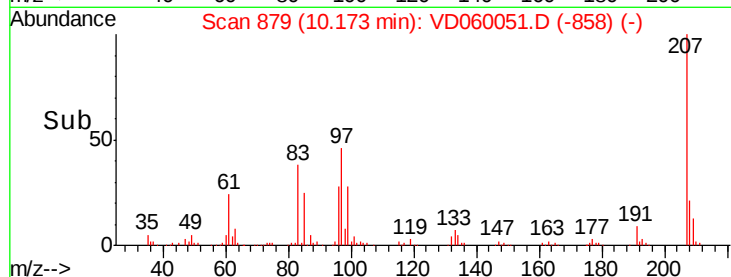
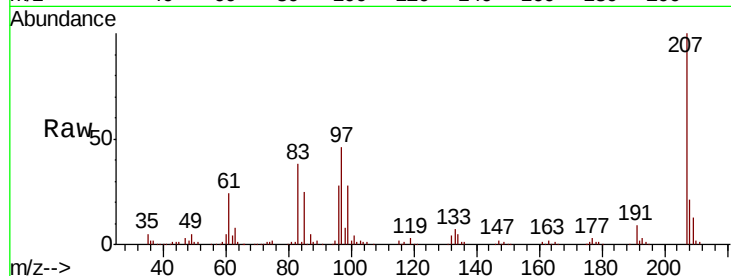
#55
 1,1,2-Trichloroethane
 Concen: 19.591 ug/l
 RT: 10.17 min Scan# 879
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
97	100	240919		
83	82.8	69.1	103.7	
85	54.6	46.2	69.4	
99	60.4	50.6	75.8	

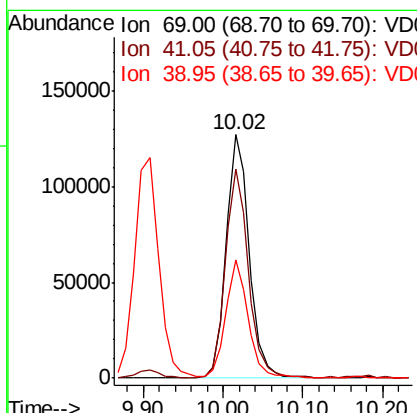
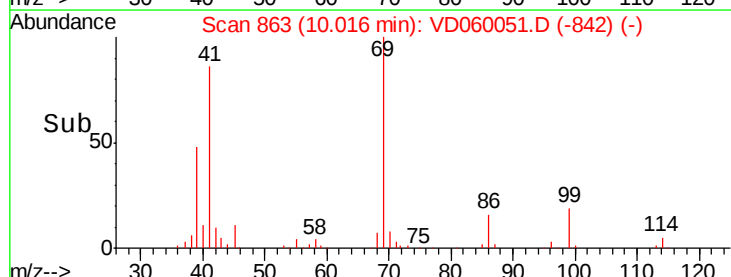
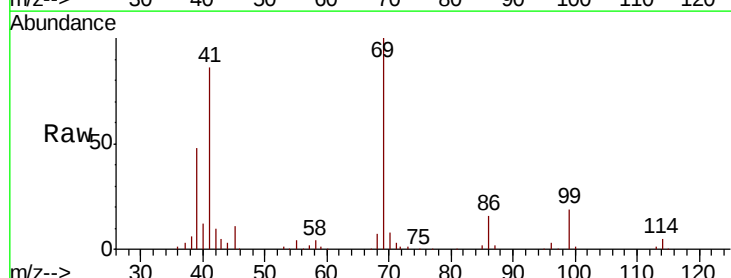
Manual Integrations
 APPROVED

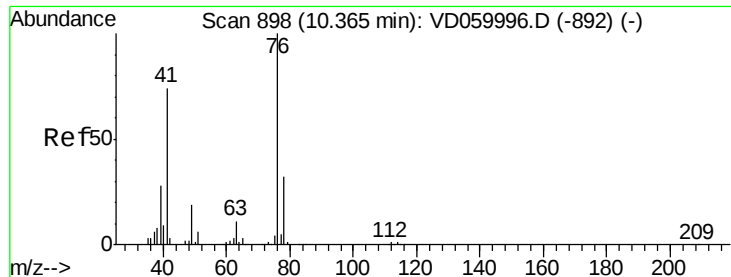
apatel
 9/21/2018 12:02:14 PM



#56
 Ethyl methacrylate
 Concen: 19.051 ug/l
 RT: 10.02 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	259856		
41	86.1	70.1	105.1	
39	48.3	36.5	54.7	





#57

1,3-Dichloropropane

Concen: 20.608 ug/l

RT: 10.37 min Scan# 899

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 76 Resp: 374090

Ion Ratio Lower Upper

76 100

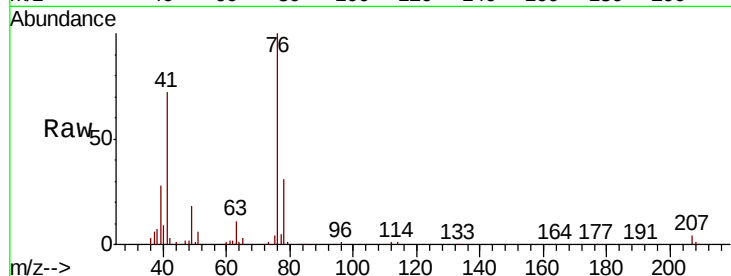
78 31.1 25.3 37.9

Manual Integrations

APPROVED

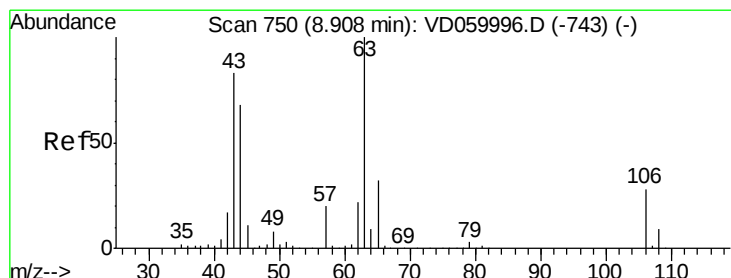
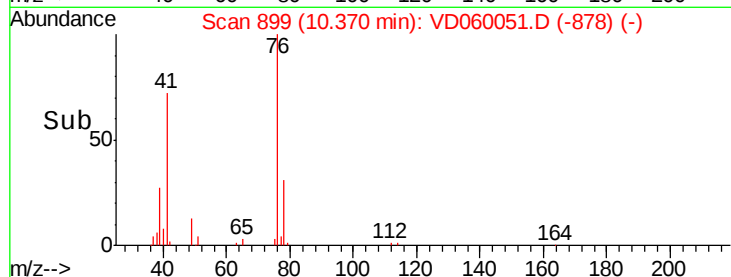
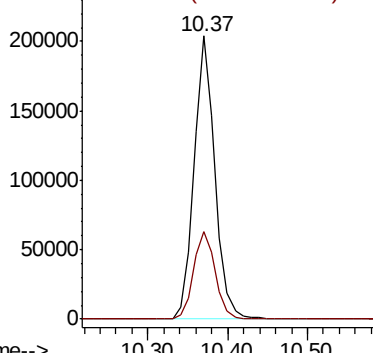
apatel

9/21/2018 12:02:14 PM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 104.467 ug/l

RT: 8.90 min Scan# 750

Delta R.T. -0.00 min

Lab File: VD060051.D

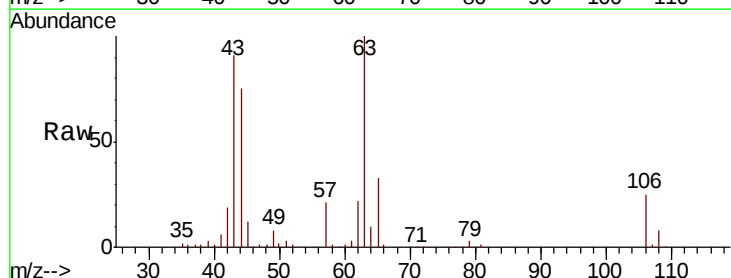
Acq: 20 Sep 2018 12:35

Tgt Ion: 63 Resp: 688098

Ion Ratio Lower Upper

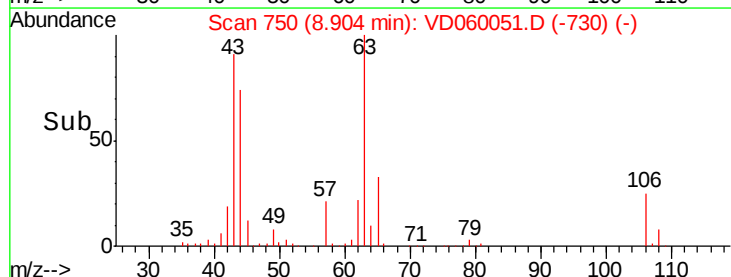
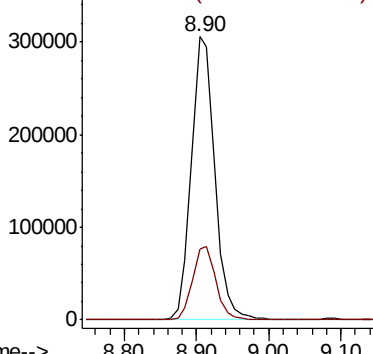
63 100

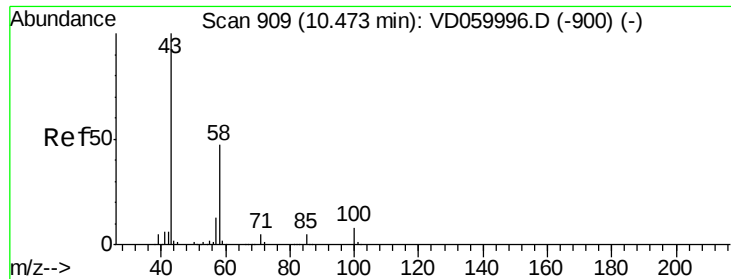
106 25.3 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





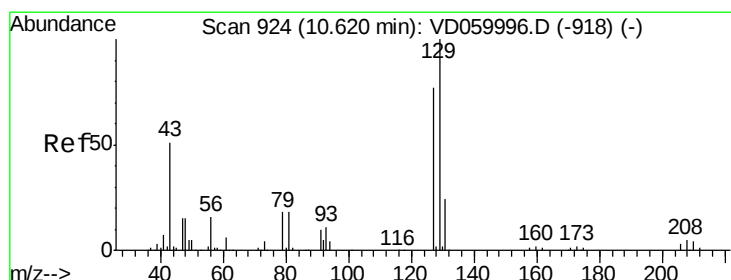
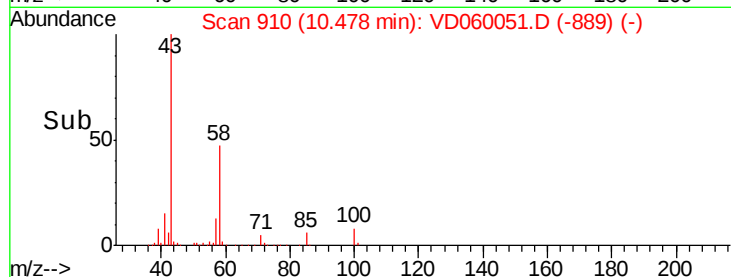
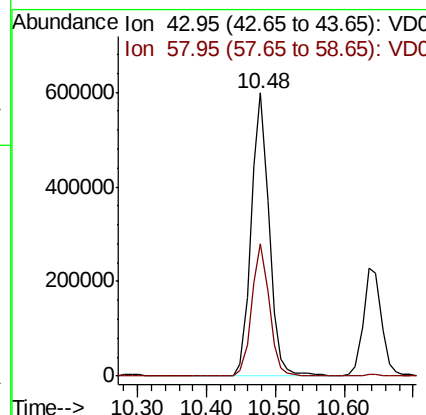
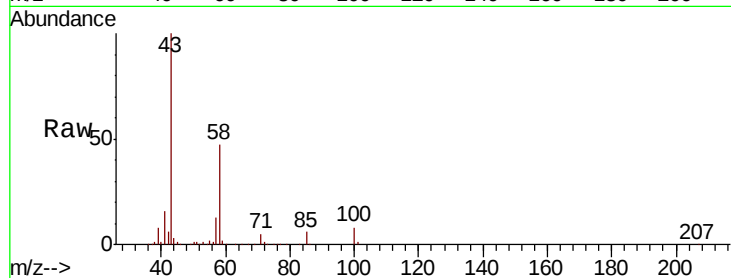
#59
2-Hexanone
Concen: 101.721 ug/l
RT: 10.48 min Scan# 910
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 43 Resp: 1078449
Ion Ratio Lower Upper
43 100
58 46.9 23.4 70.0

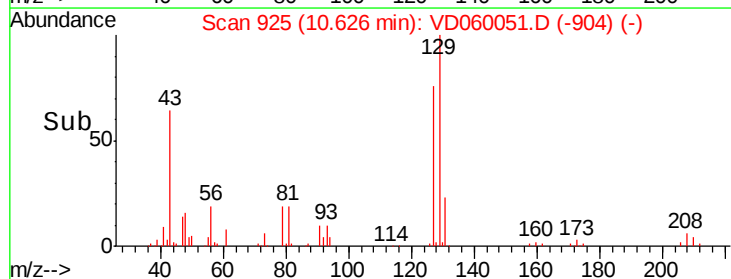
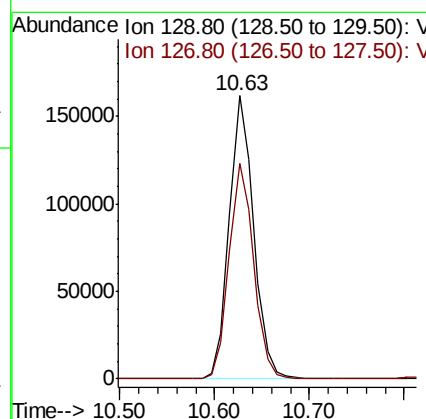
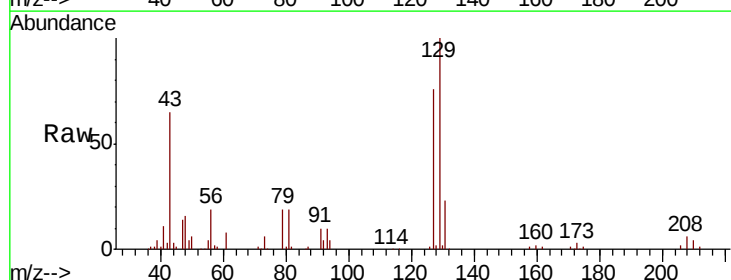
Manual Integrations
APPROVED

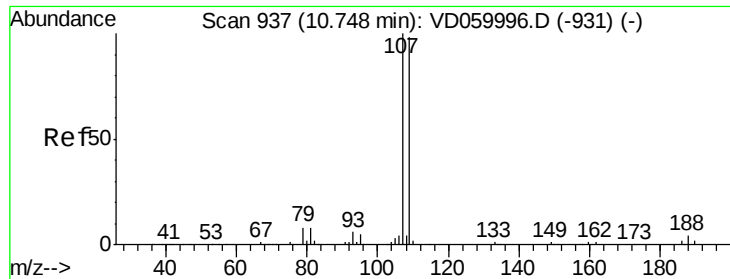
apatel
9/21/2018 12:02:14 PM



#60
Dibromochloromethane
Concen: 19.364 ug/l
RT: 10.63 min Scan# 925
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 129 Resp: 289840
Ion Ratio Lower Upper
129 100
127 76.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.229 ug/l

RT: 10.74 min Scan# 937

Delta R.T. -0.00 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 107 Resp: 244154

Ion Ratio Lower Upper

107 100

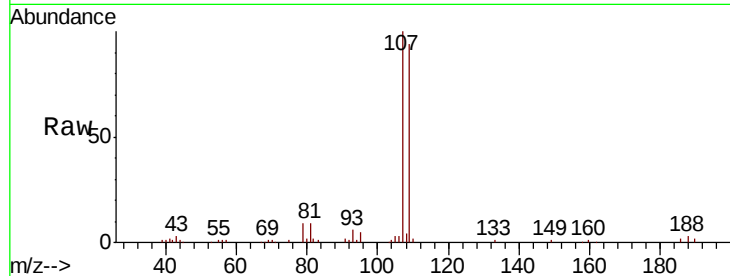
109 94.1 78.2 117.2

Manual Integrations

APPROVED

apatel

9/21/2018 12:02:14 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.74

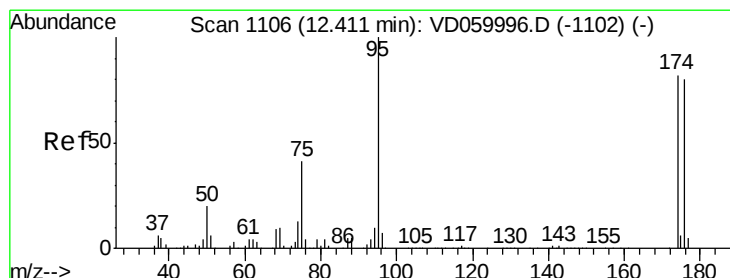
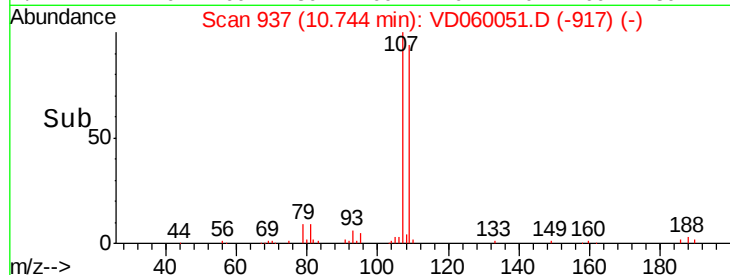
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.229 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

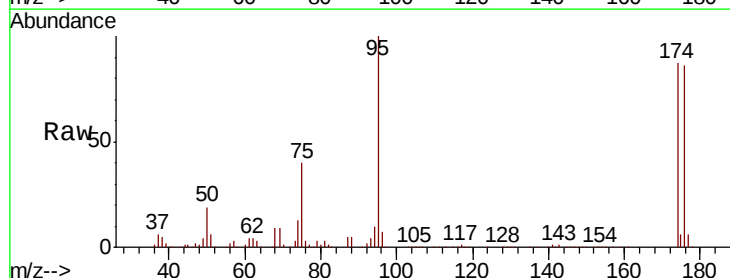
Tgt Ion: 95 Resp: 973778

Ion Ratio Lower Upper

95 100

174 87.2 0.0 165.0

176 85.9 0.0 160.2



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

1000000

800000

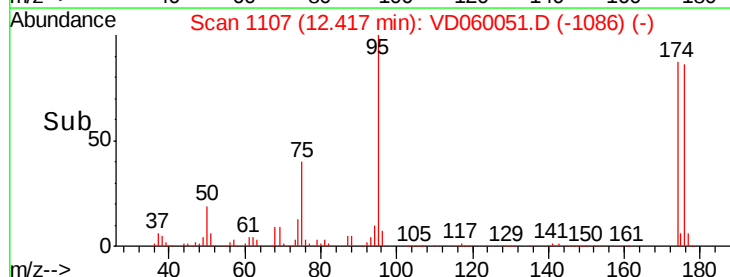
600000

400000

200000

0

Time-->





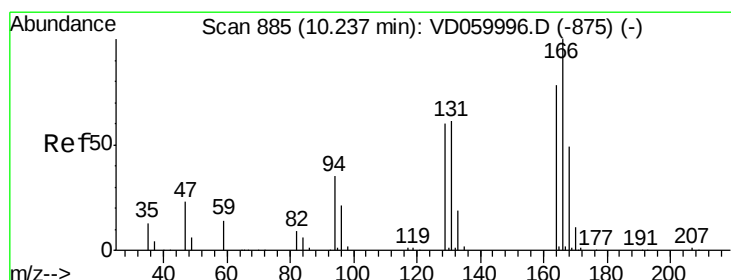
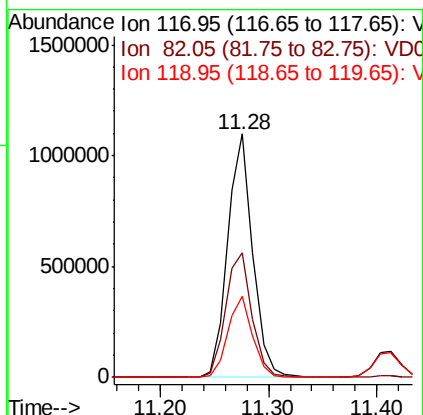
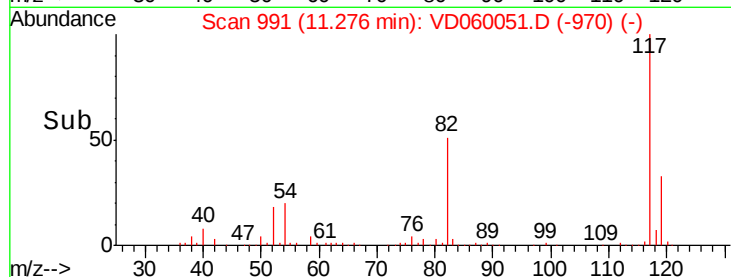
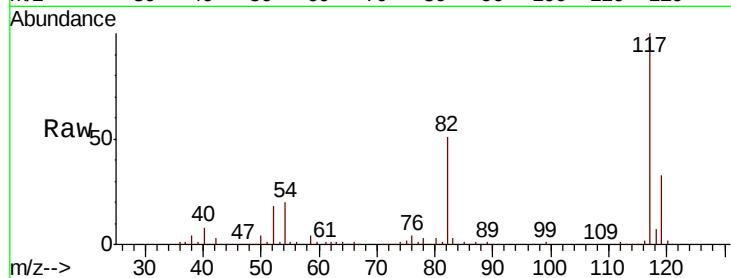
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:117 Resp: 1759407
Ion Ratio Lower Upper
117 100
82 51.4 41.7 62.5
119 33.1 26.0 39.0

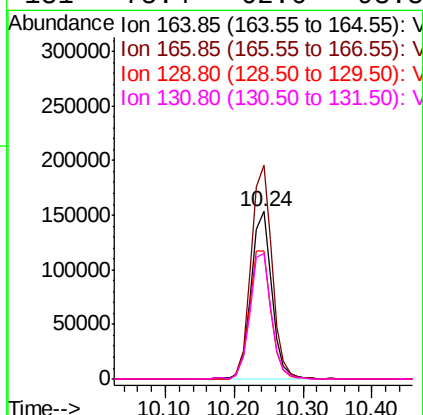
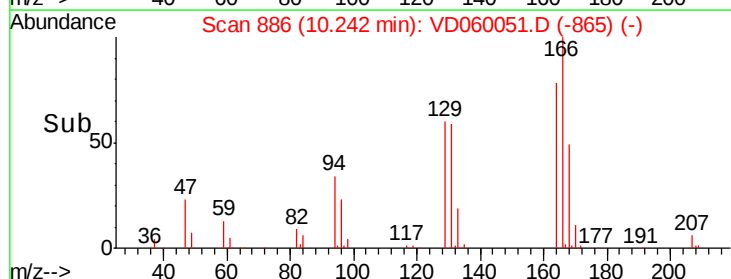
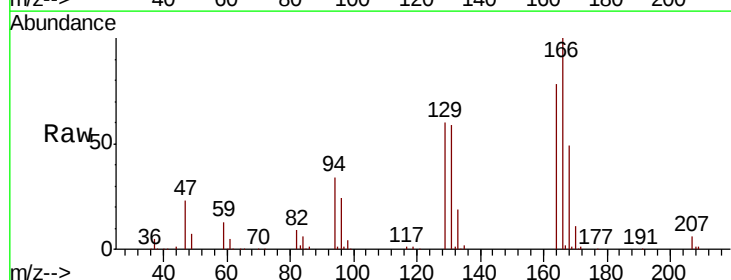
Manual Integrations
APPROVED

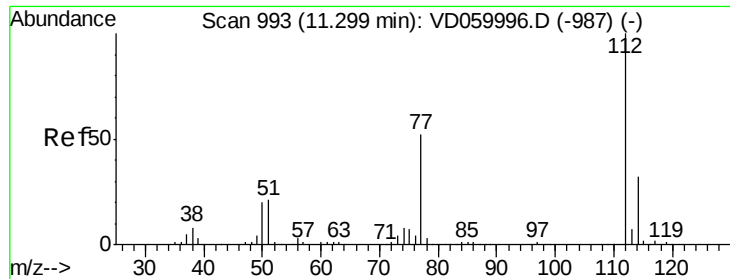
apatel
9/21/2018 12:02:14 PM



#64
Tetrachloroethene
Concen: 20.746 ug/l
RT: 10.24 min Scan# 886
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:164 Resp: 322042
Ion Ratio Lower Upper
164 100
166 127.8 103.0 154.6
129 76.7 61.9 92.9
131 75.4 62.6 93.8





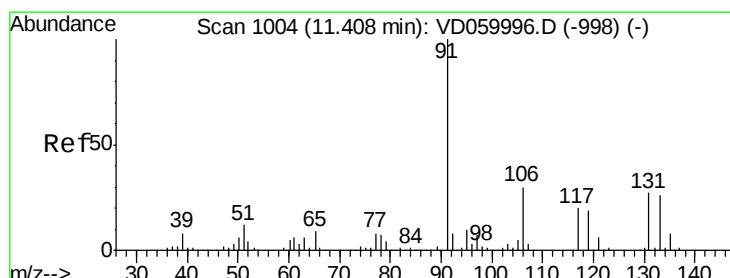
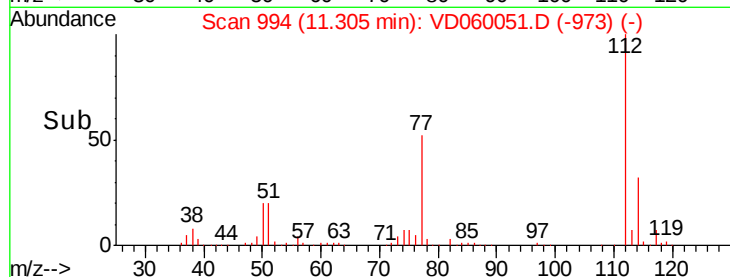
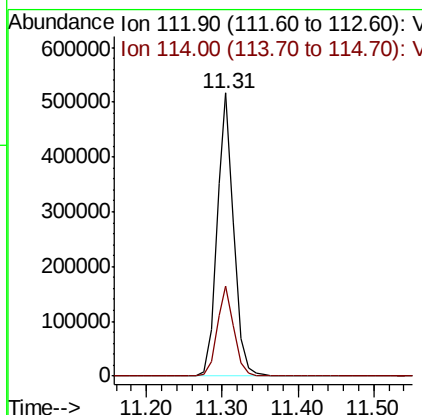
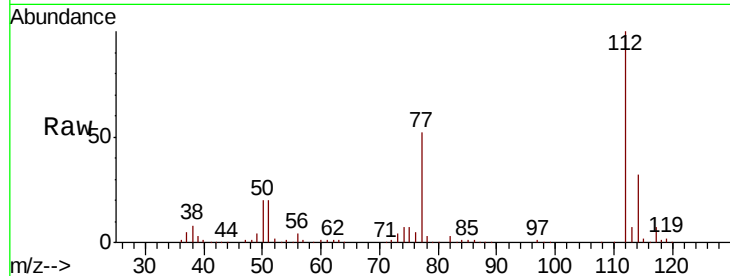
#65
Chlorobenzene
Concen: 20.958 ug/l
RT: 11.31 min Scan# 994
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:112 Resp: 792771
Ion Ratio Lower Upper
112 100
114 32.0 25.3 37.9

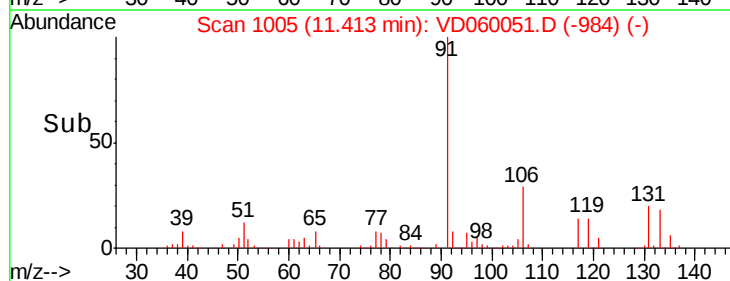
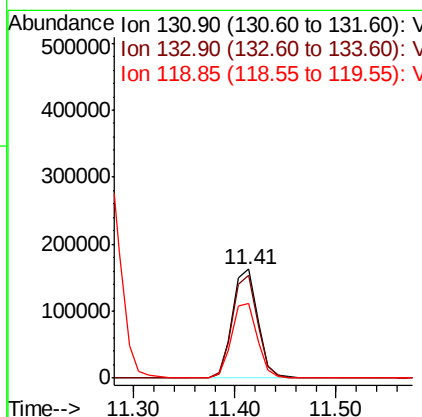
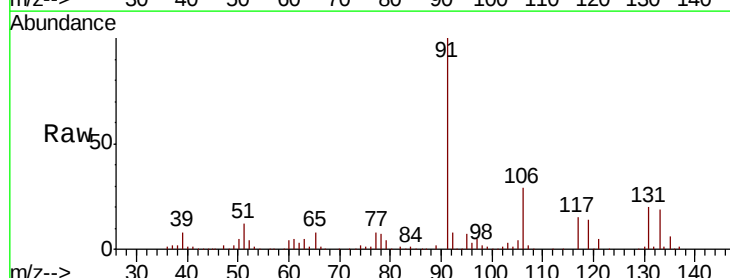
Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.205 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:131 Resp: 283294
Ion Ratio Lower Upper
131 100
133 94.6 47.4 142.3
119 68.0 35.6 106.9





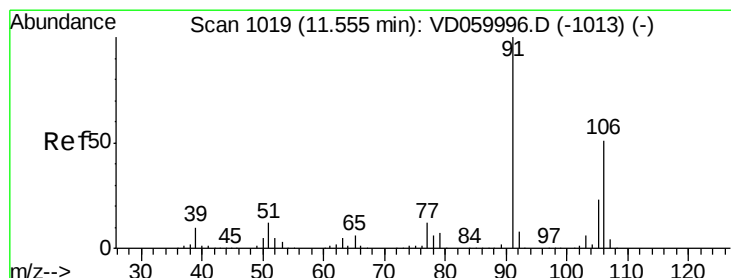
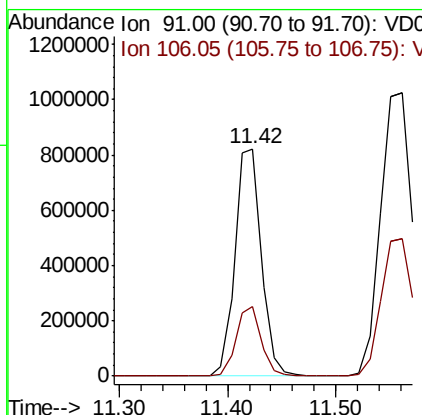
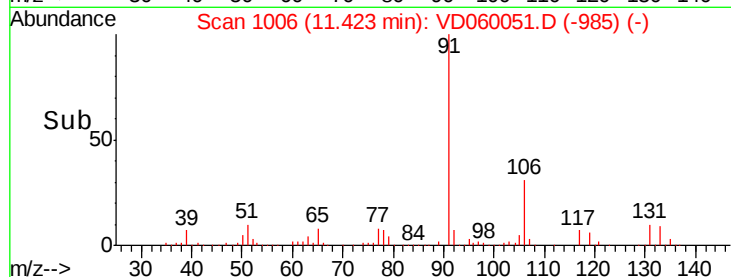
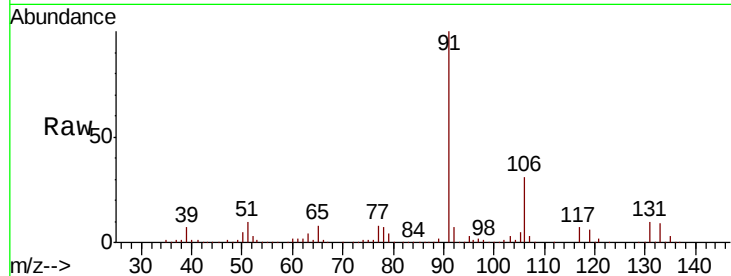
#67
Ethyl Benzene
Concen: 22.902 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 91 Resp: 1394134
Ion Ratio Lower Upper
91 100
106 30.9 24.8 37.2

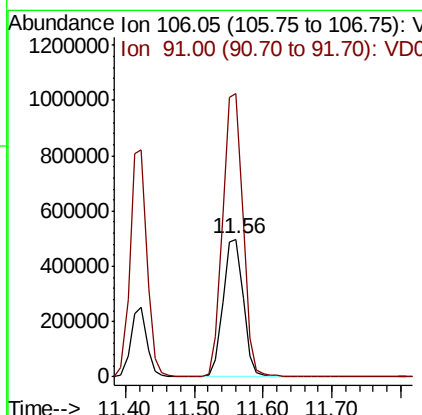
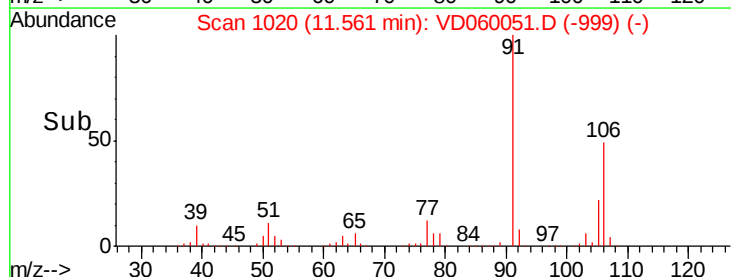
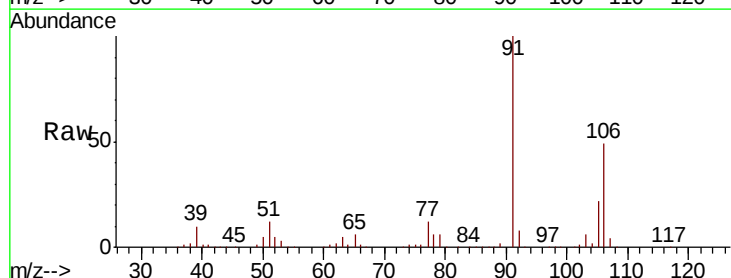
Manual Integrations
APPROVED

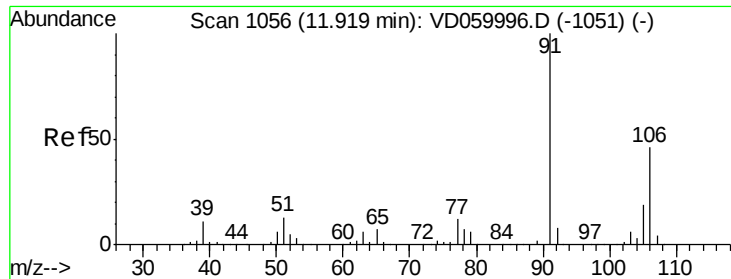
apatel
9/21/2018 12:02:14 PM



#68
m/p-Xylenes
Concen: 44.831 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 106 Resp: 1007889
Ion Ratio Lower Upper
106 100
91 205.7 157.0 235.6





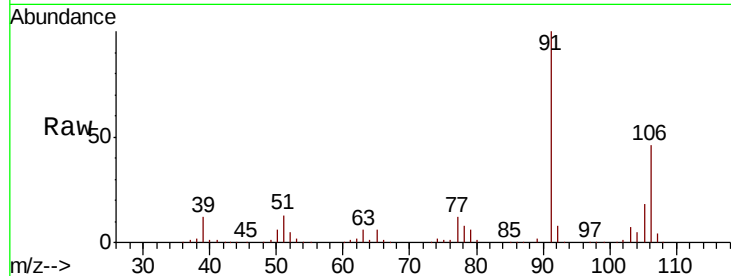
#69
o-Xylene
Concen: 21.323 ug/l
RT: 11.93 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

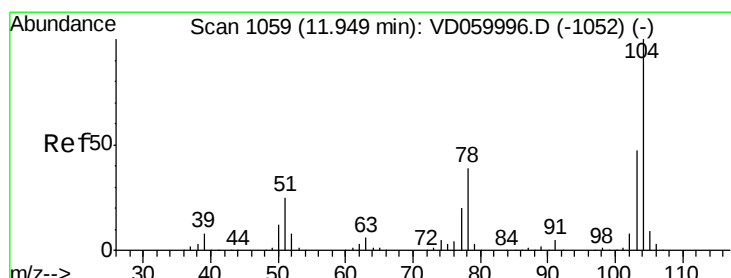
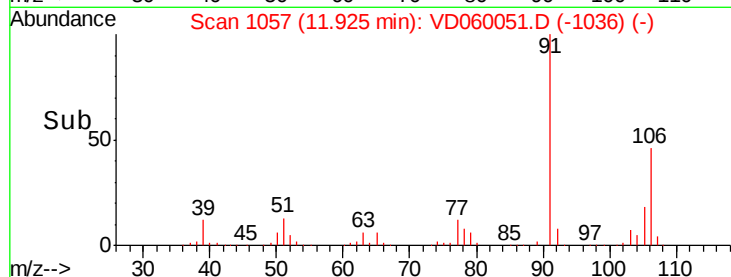
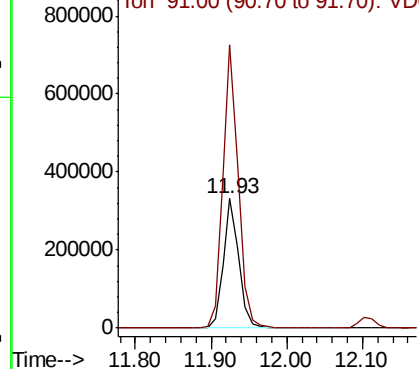
Tot Ion:106 Resp: 474990
Ion Ratio Lower Upper
106 100
91 218.9 107.7 323.1

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM

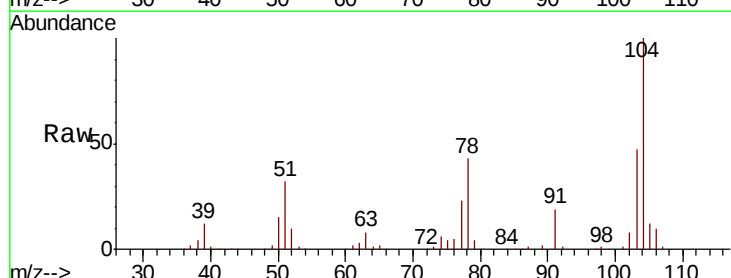


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

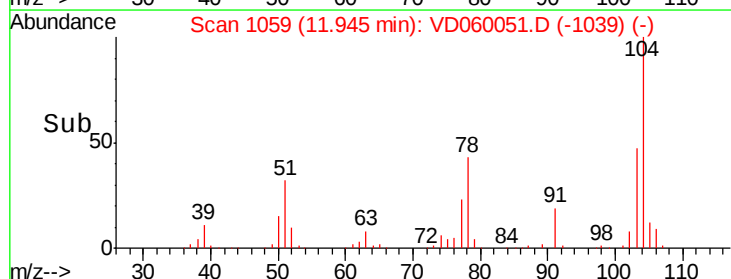
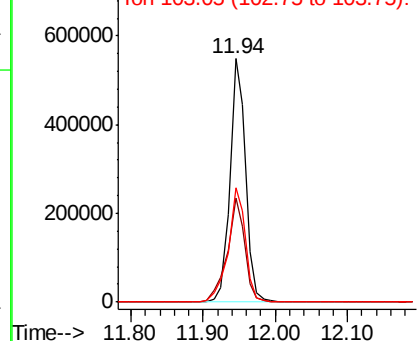


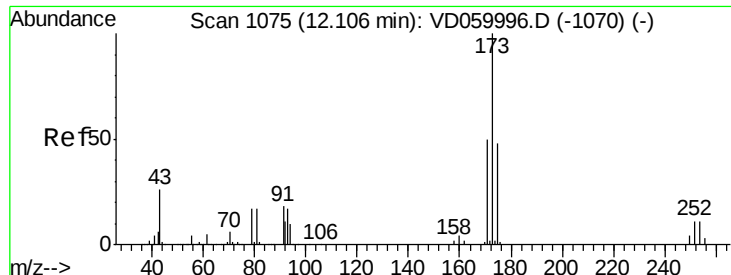
#70
Styrene
Concen: 21.784 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:104 Resp: 815922
Ion Ratio Lower Upper
104 100
78 43.0 31.0 46.4
103 47.0 37.6 56.4



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: 18.811 ug/l

RT: 12.11 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

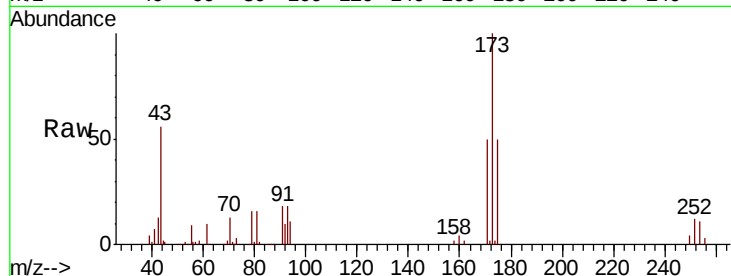
ClientSampleId :

VD0920SBS01

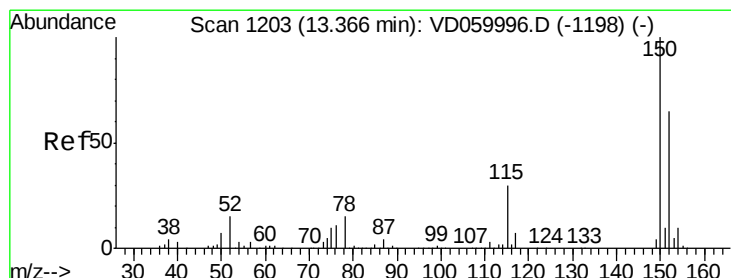
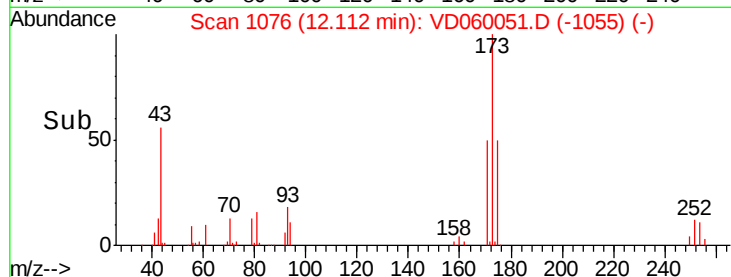
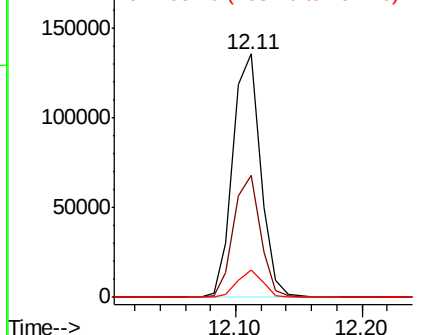
Tot Ion:	173	Resp:	206192
Ion Ratio	Lower	Upper	
173	100		
175	50.2	24.0	72.0
254	11.3	8.6	13.0

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

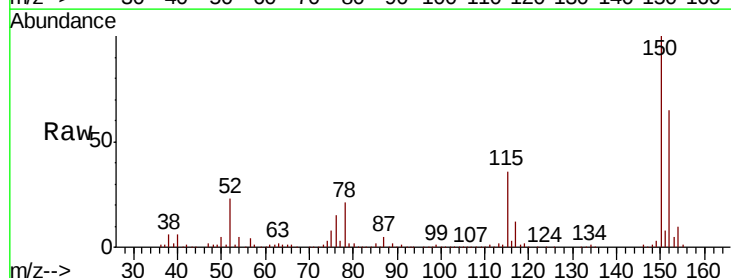
RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

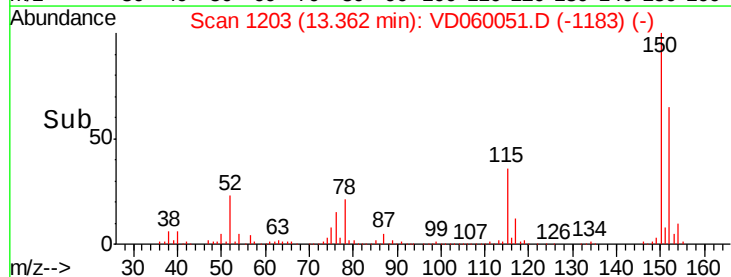
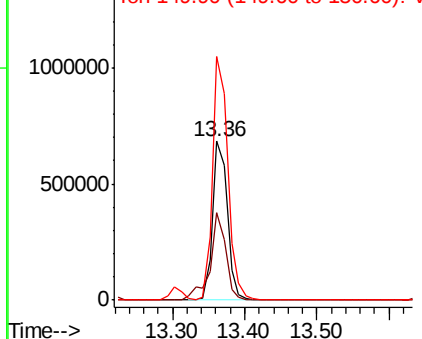
Lab File: VD060051.D

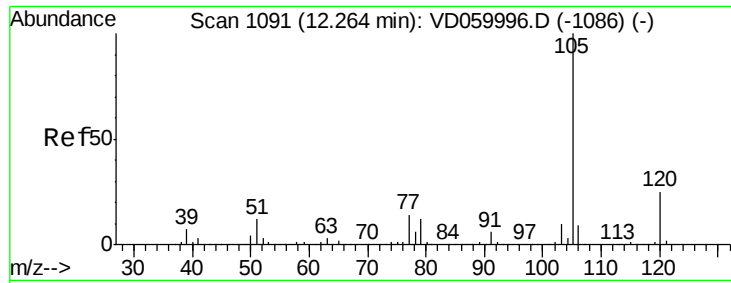
Acq: 20 Sep 2018 12:35

Tgt Ion:	152	Resp:	957137
Ion Ratio	Lower	Upper	
152	100		
115	55.2	24.6	73.8
150	153.3	0.0	313.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.175 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 105 Resp: 1329214

Ion Ratio Lower Upper

105 100

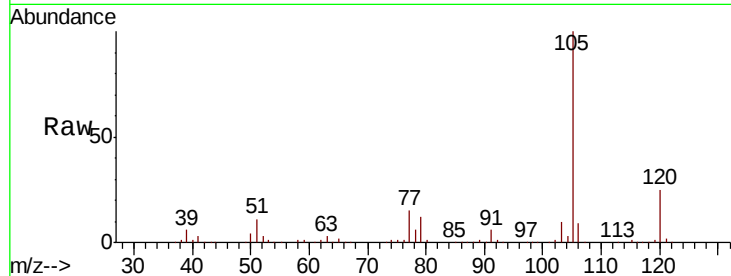
120 24.9 12.3 36.9

Manual Integrations

APPROVED

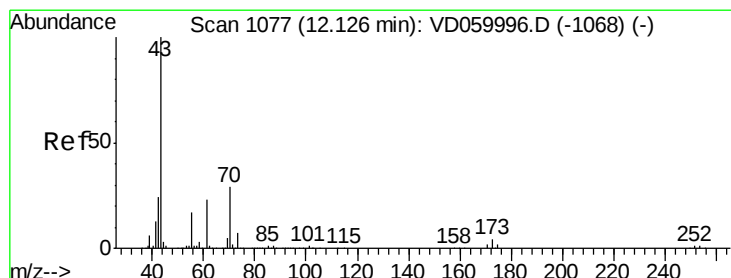
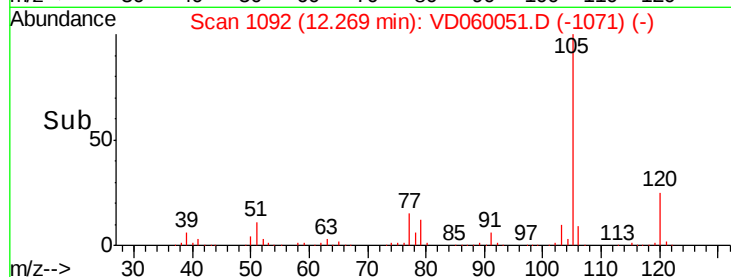
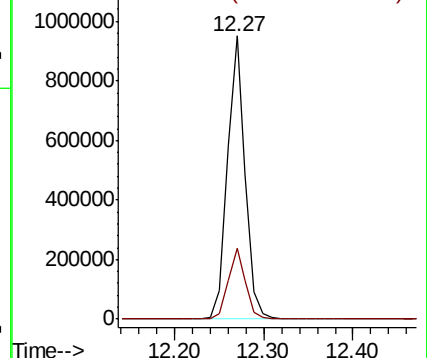
apatel

9/21/2018 12:02:14 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: 18.903 ug/l

RT: 12.12 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion: 43 Resp: 470034

Ion Ratio Lower Upper

43 100

70 26.0 22.9 34.3

55 16.3 14.0 21.0

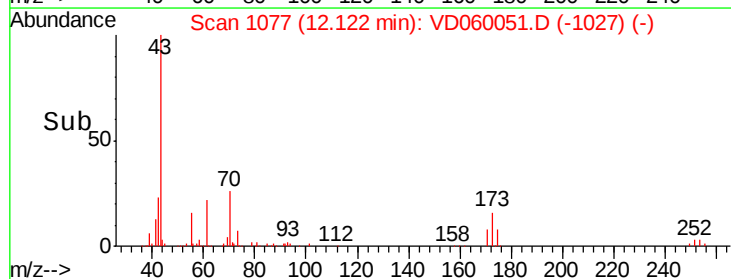
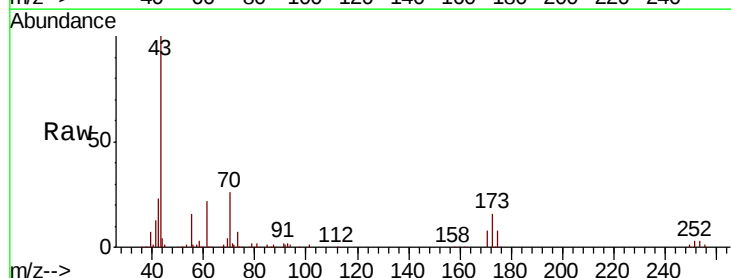
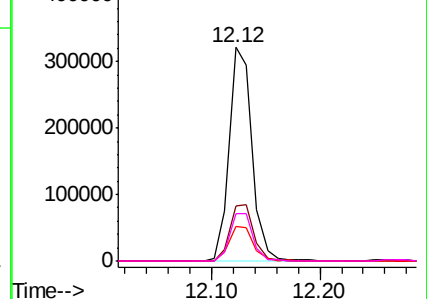
61 21.9 18.7 28.1

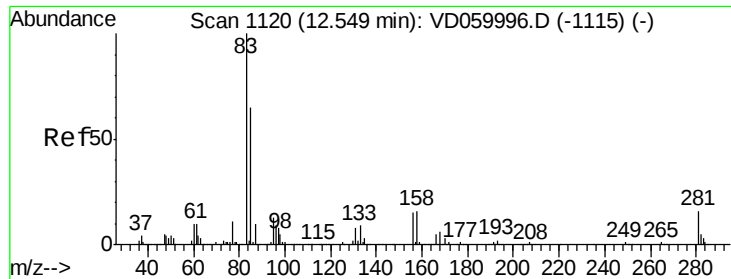
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 19.453 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 83 Resp: 277023

Ion Ratio Lower Upper

83 100

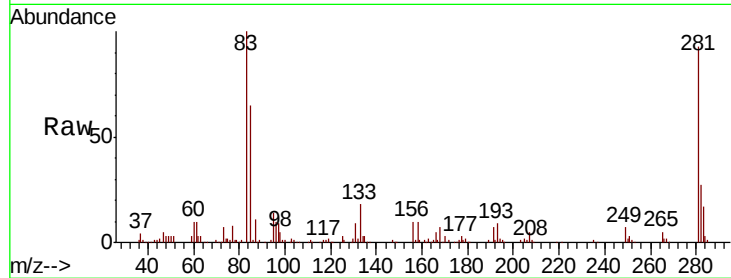
131 8.5 4.1 12.3

85 64.7 32.4 97.2

Manual Integrations
APPROVED

apatel

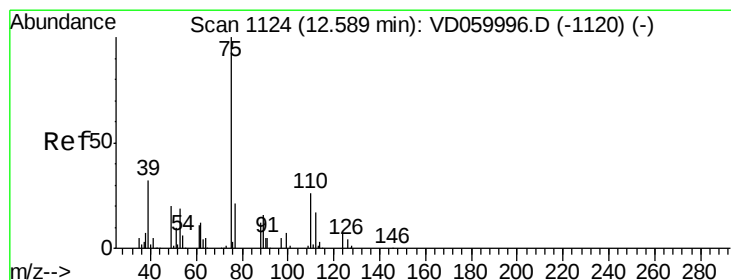
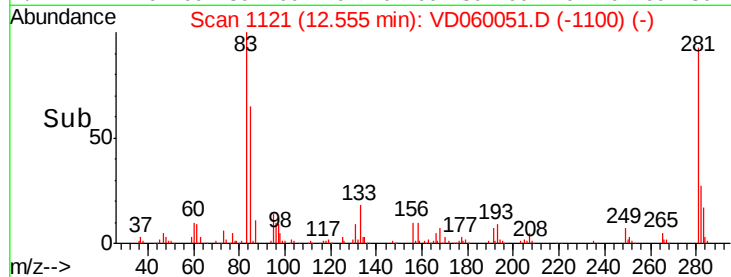
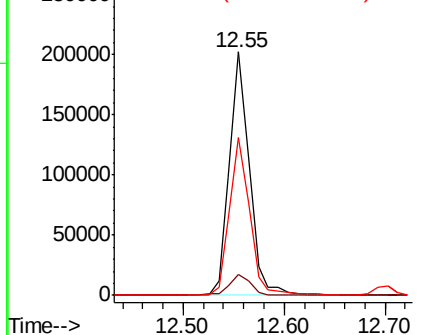
9/21/2018 12:02:14 PM



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



#76

1,2,3-Trichloropropane

Concen: 18.956 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VD060051.D

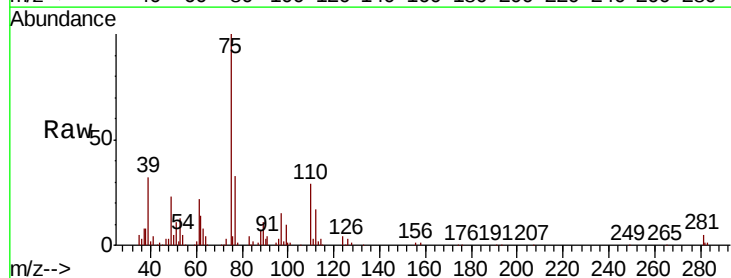
Acq: 20 Sep 2018 12:35

Tgt Ion: 75 Resp: 277095

Ion Ratio Lower Upper

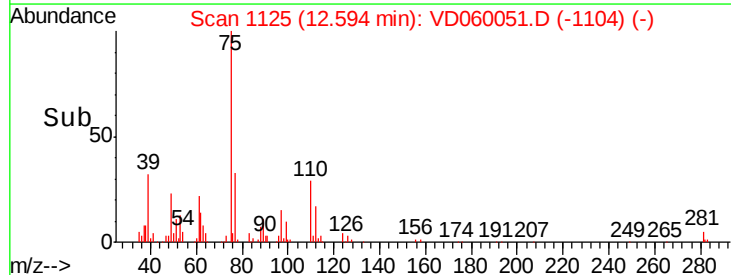
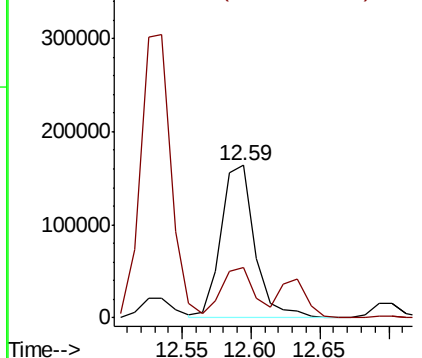
75 100

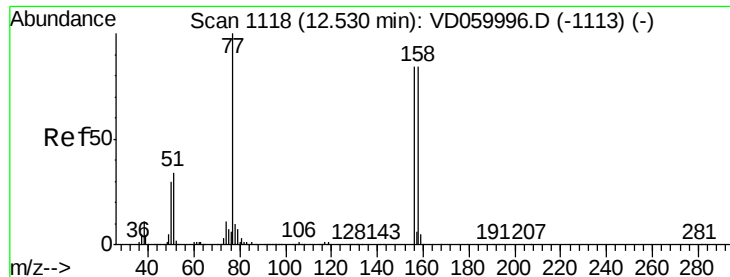
77 32.8 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





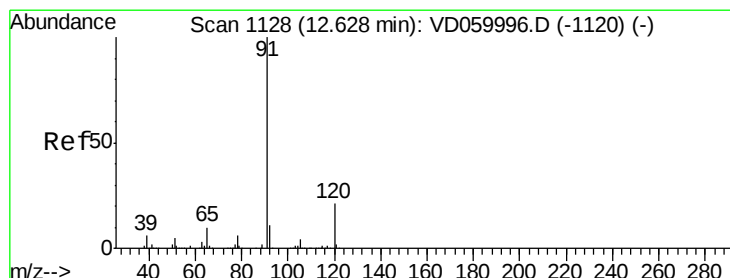
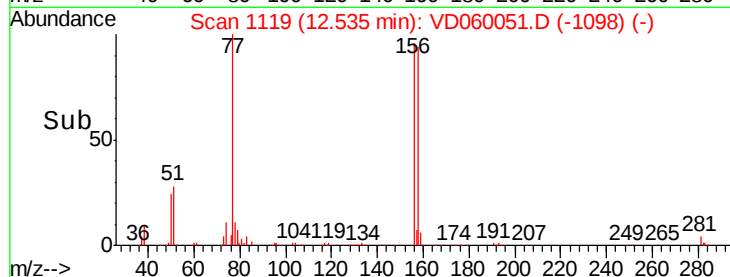
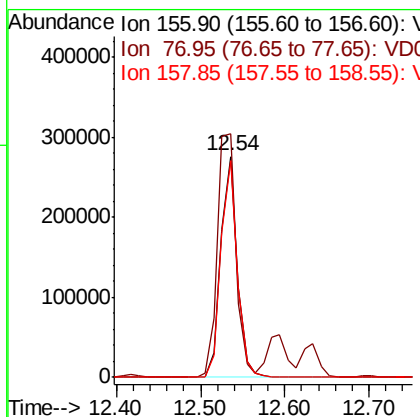
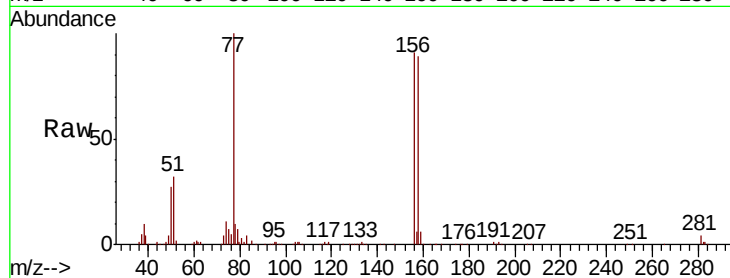
#77
Bromobenzene
Concen: 20.718 ug/l
RT: 12.54 min Scan# 1119
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	110.1	59.5	178.4
158	98.2	50.0	149.8

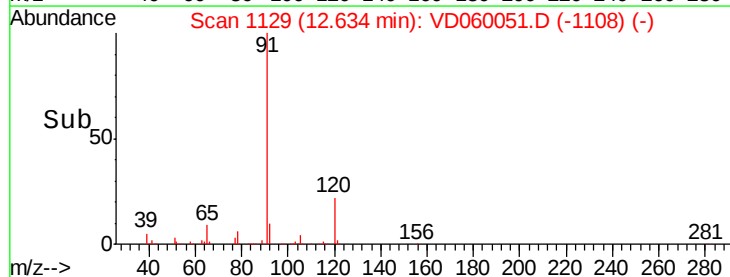
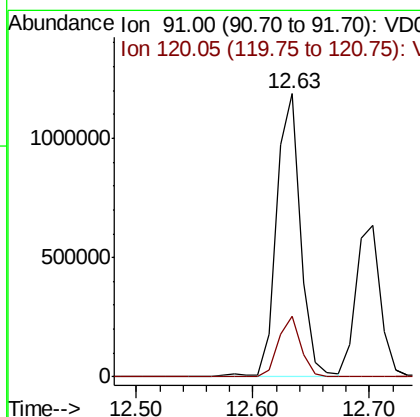
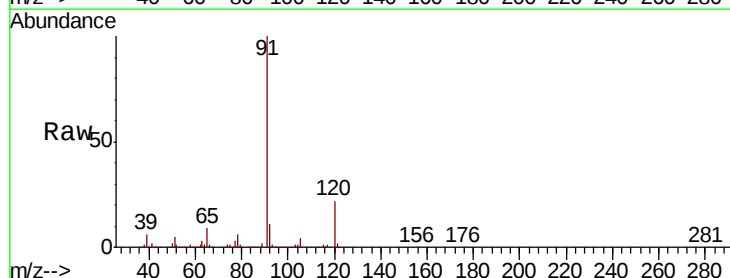
Manual Integrations
APPROVED

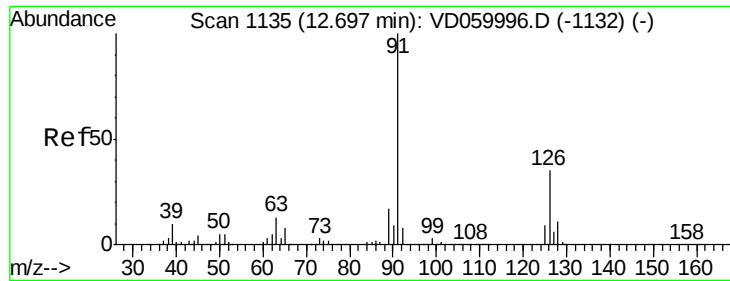
apatel
9/21/2018 12:02:14 PM



#78
n-propylbenzene
Concen: 21.334 ug/l
RT: 12.63 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.7	31.9





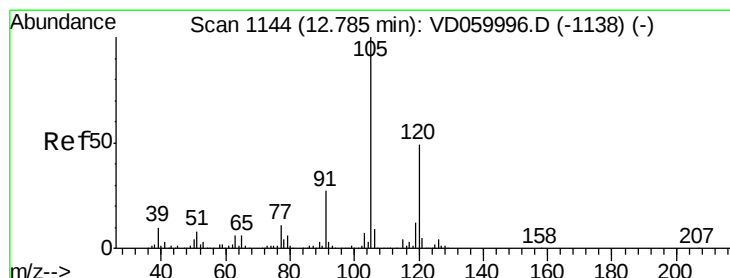
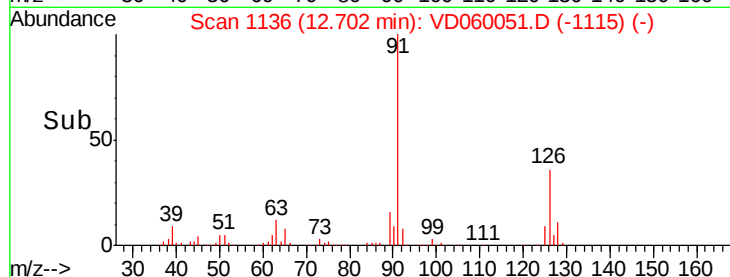
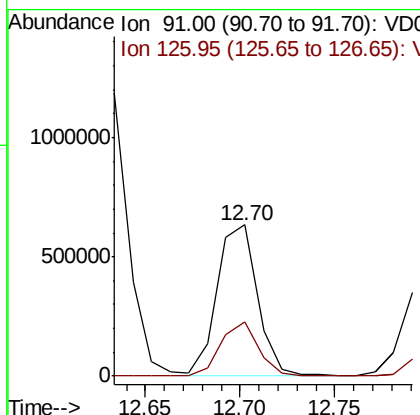
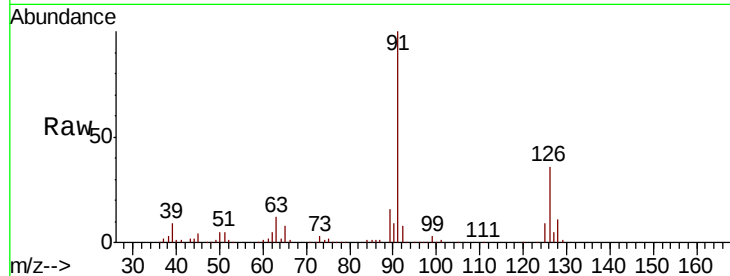
#79
 2-Chlorotoluene
 Concen: 20.852 ug/l
 RT: 12.70 min Scan# 1136
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion: 91 Resp: 929055
 Ion Ratio Lower Upper
 91 100
 126 35.6 17.3 52.0

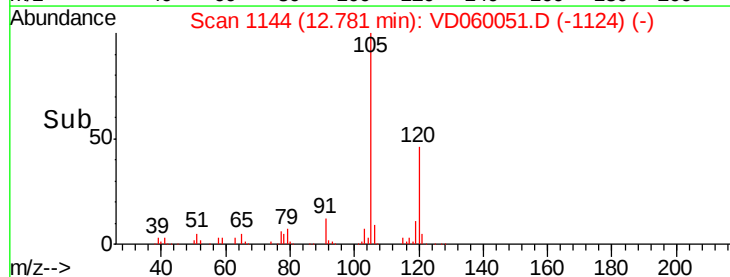
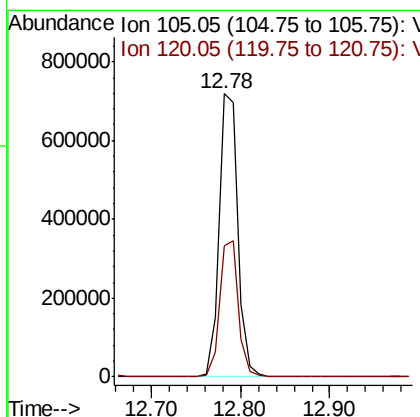
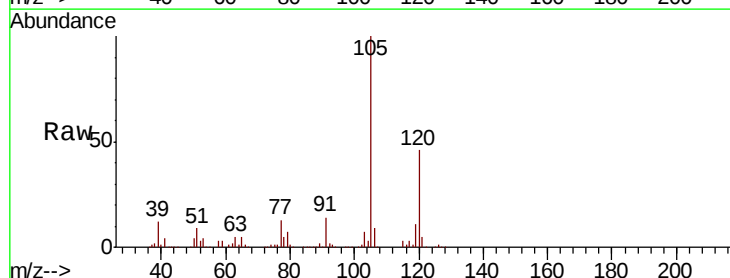
Manual Integrations
 APPROVED

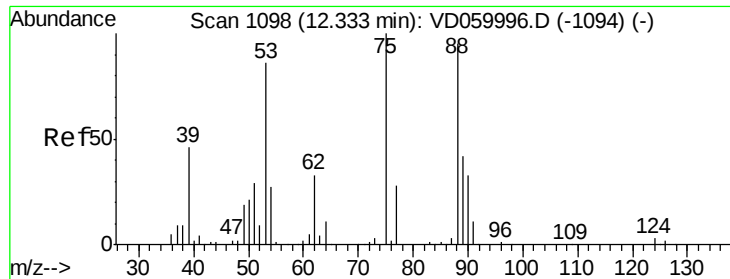
apatel
 9/21/2018 12:02:14 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 21.955 ug/l
 RT: 12.78 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:105 Resp: 1056355
 Ion Ratio Lower Upper
 105 100
 120 46.3 24.4 73.2





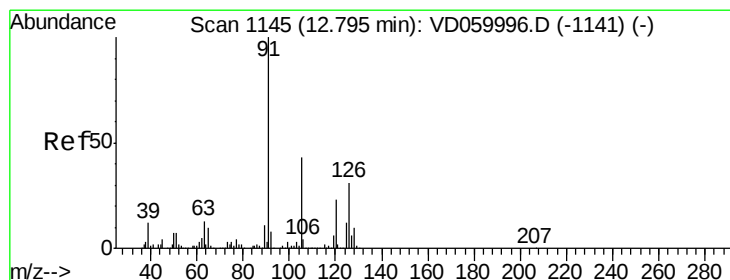
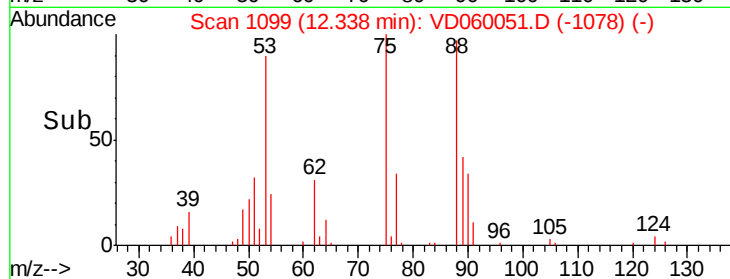
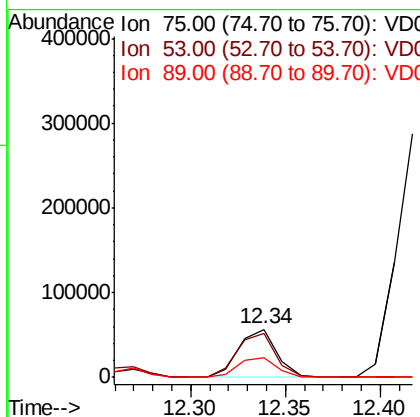
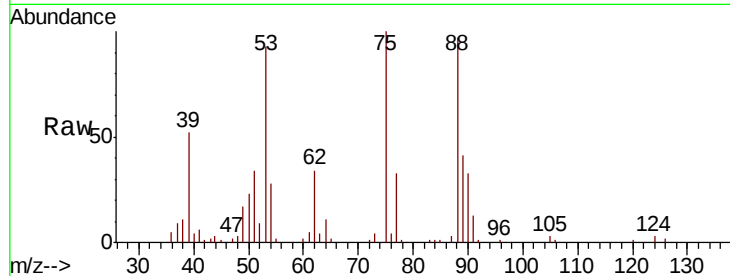
#81
trans-1,4-Dichloro-2-butene
Concen: 17.830 ug/l
RT: 12.34 min Scan# 1099
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.6	68.4	102.6
89	41.2	33.8	50.6

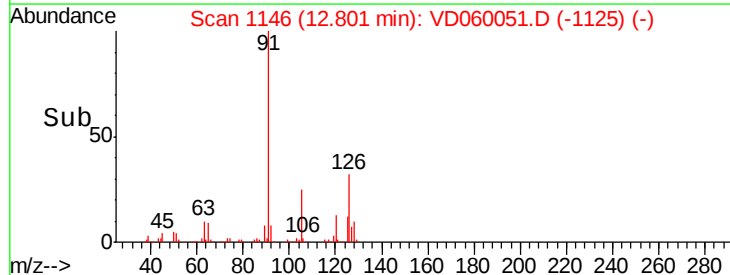
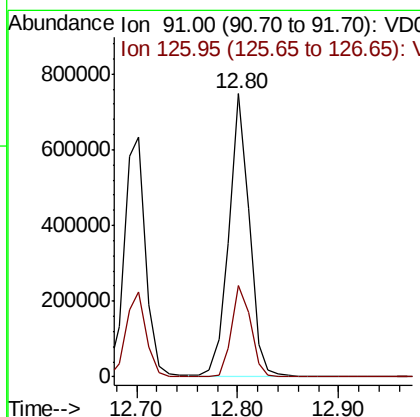
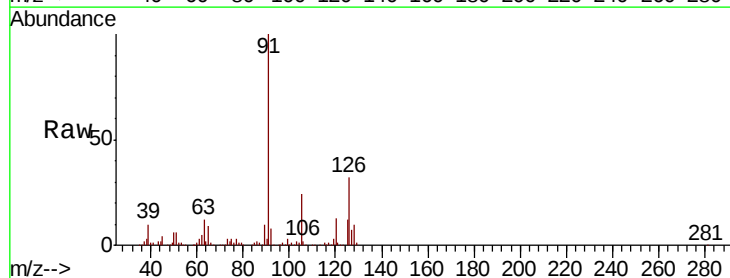
Manual Integrations
APPROVED

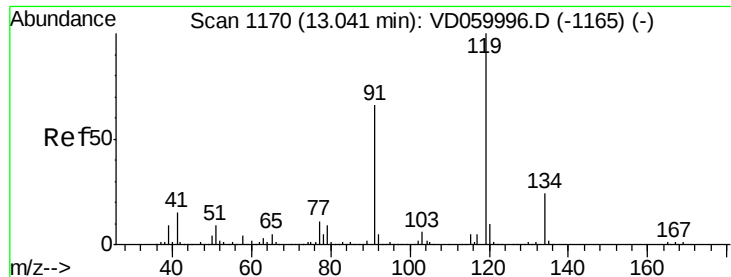
apatel
9/21/2018 12:02:14 PM



#82
4-Chlorotoluene
Concen: 21.364 ug/l
RT: 12.80 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.4	46.1





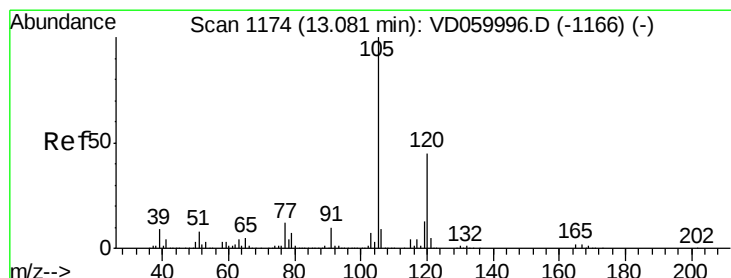
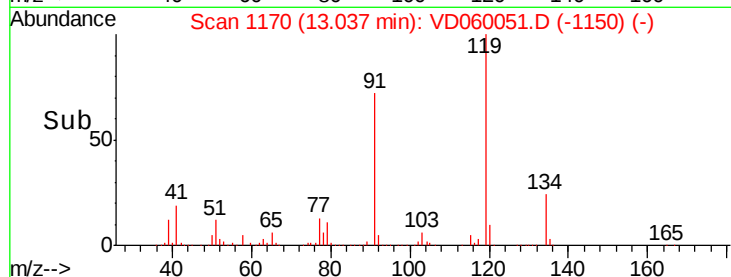
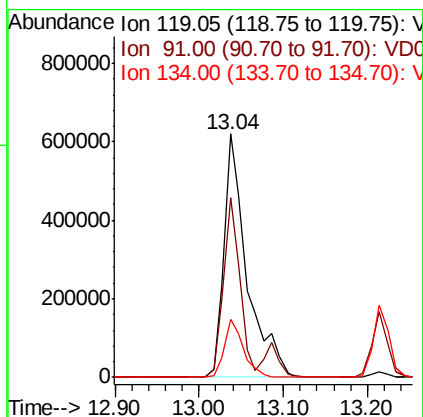
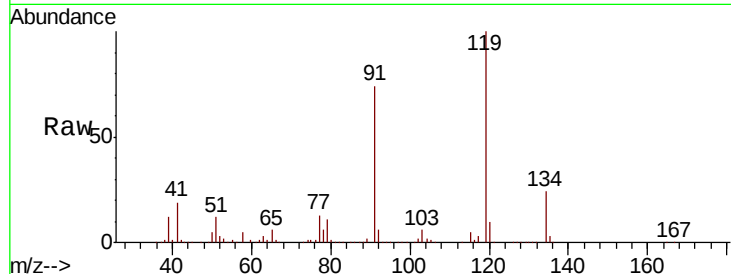
#83
tert-Butylbenzene
Concen: 21.143 ug/l
RT: 13.04 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:119 Resp: 1178508
Ion Ratio Lower Upper
119 100
91 73.6 32.9 98.6
134 24.0 12.0 36.0

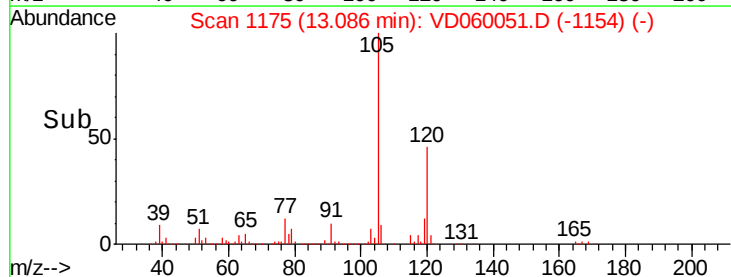
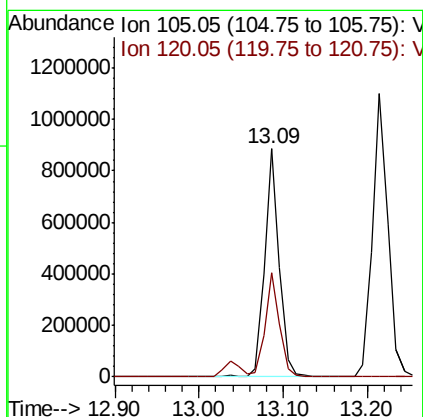
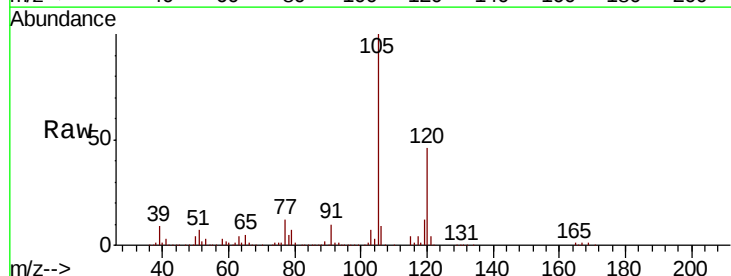
Manual Integrations
APPROVED

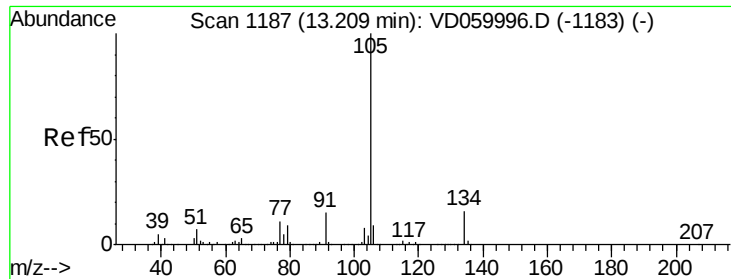
apatel
9/21/2018 12:02:14 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.220 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:105 Resp: 1089542
Ion Ratio Lower Upper
105 100
120 45.5 22.4 67.0





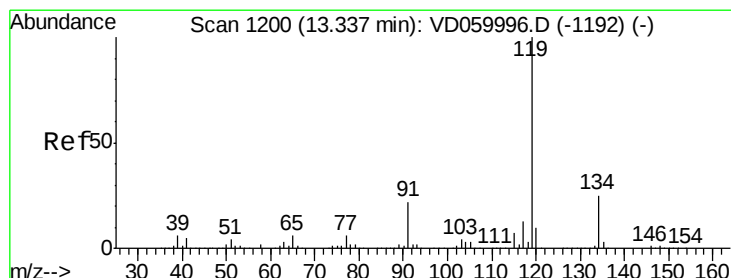
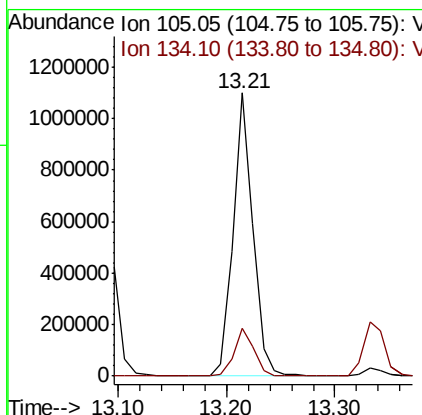
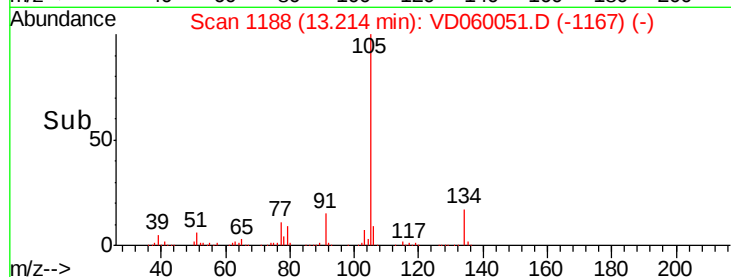
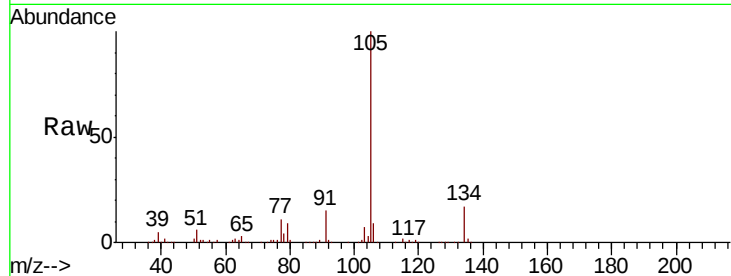
#85
 sec-Butylbenzene
 Concen: 21.055 ug/l
 RT: 13.21 min Scan# 1188
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion:105 Resp: 1393110
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.2 24.6

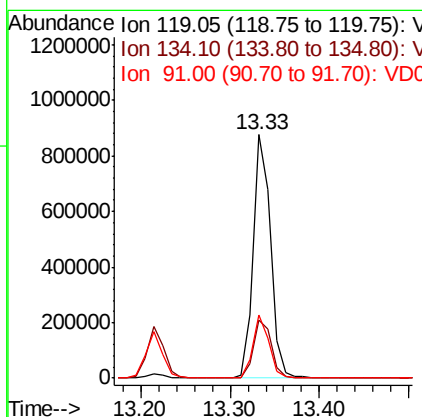
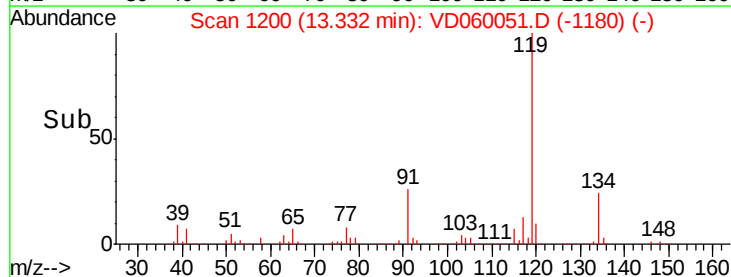
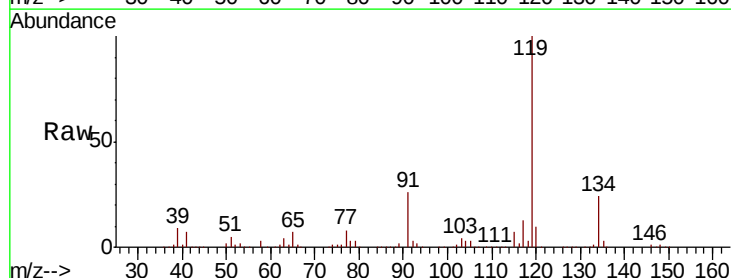
Manual Integrations
 APPROVED

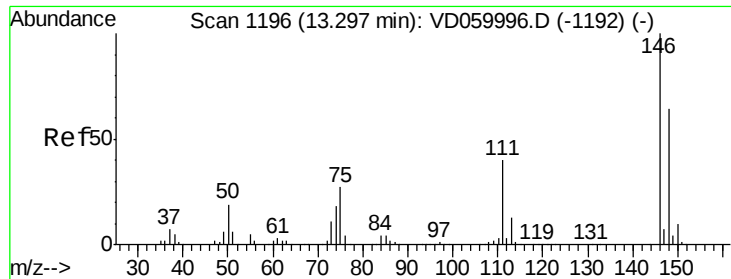
apatel
 9/21/2018 12:02:14 PM



#86
 p-Isopropyltoluene
 Concen: 21.654 ug/l
 RT: 13.33 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:119 Resp: 1158842
 Ion Ratio Lower Upper
 119 100
 134 23.8 12.8 38.3
 91 25.8 11.1 33.3





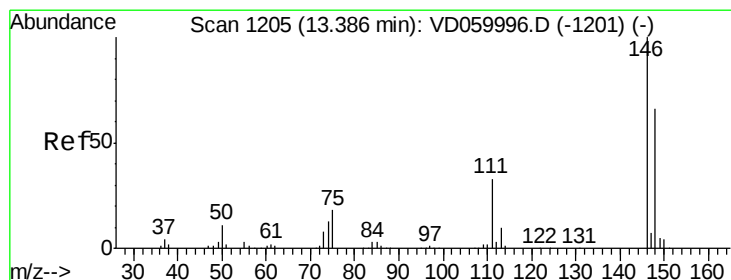
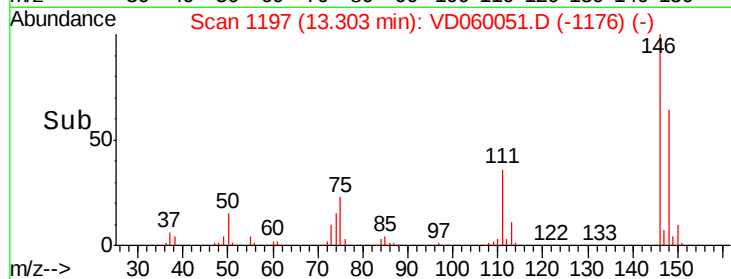
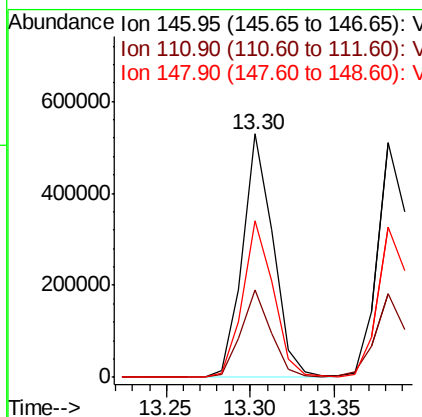
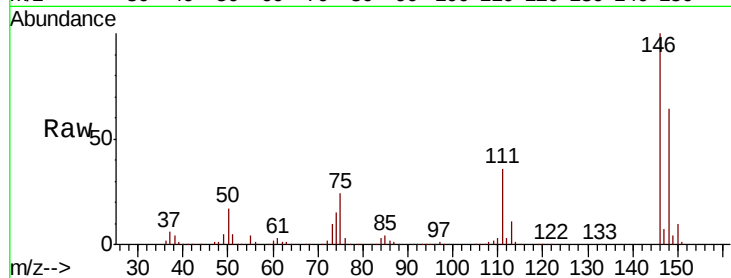
#87
 1,3-Dichlorobenzene
 Concen: 21.239 ug/l
 RT: 13.30 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.0	20.2	60.5
148	64.1	32.0	96.2

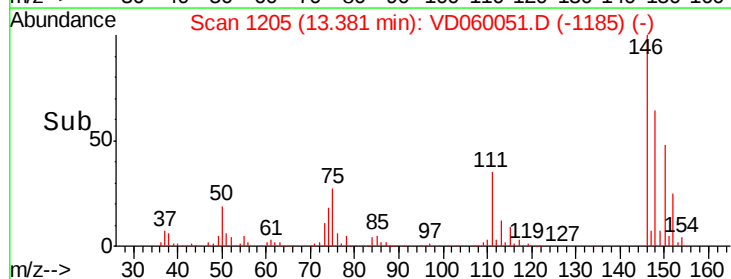
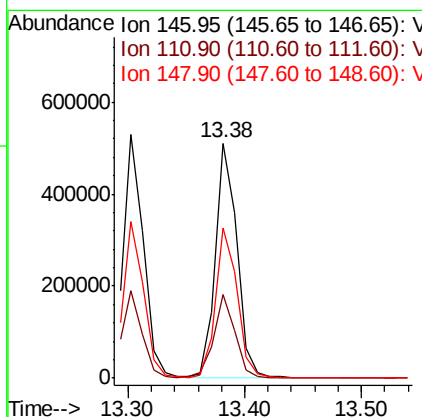
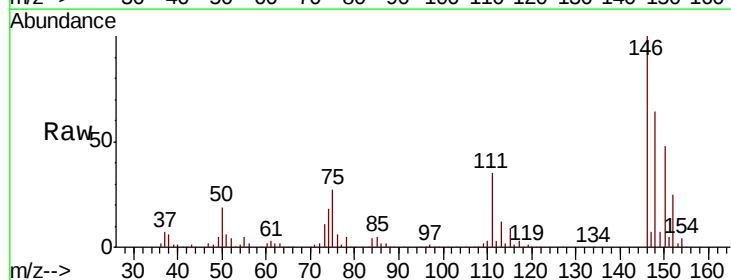
Manual Integrations
 APPROVED

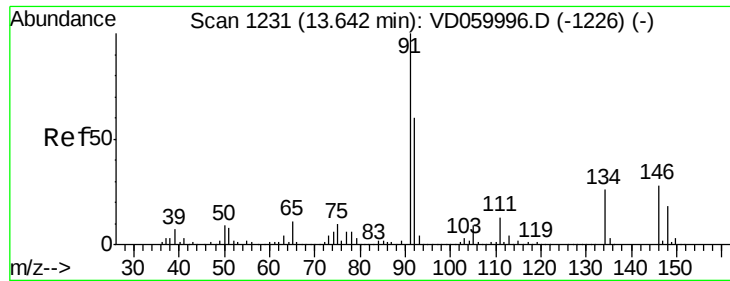
apatel
 9/21/2018 12:02:14 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.453 ug/l
 RT: 13.38 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	16.7	50.0
148	63.8	32.9	98.6





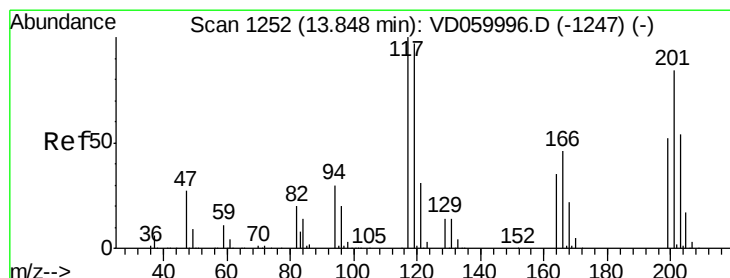
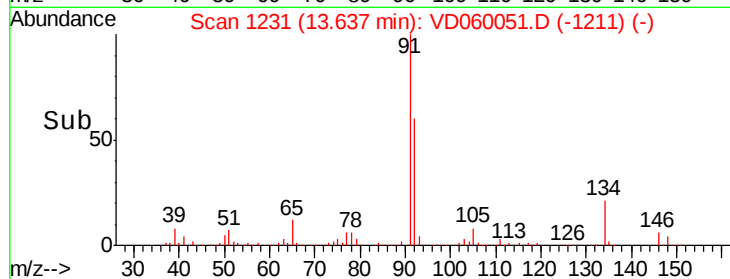
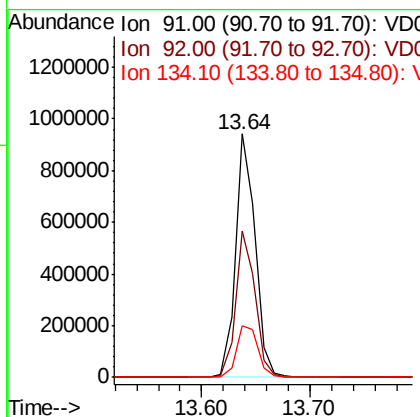
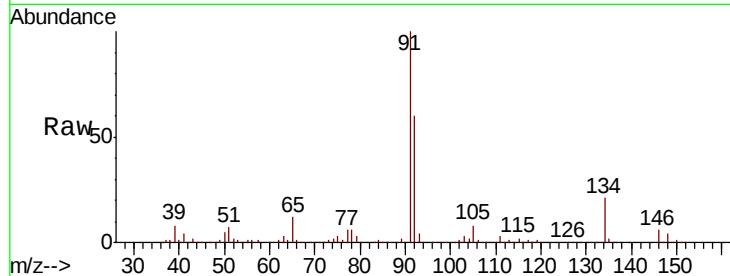
#89
n-Butylbenzene
Concen: 20.460 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion: 91 Resp: 1183946
Ion Ratio Lower Upper
91 100
92 60.1 29.8 89.3
134 21.1 13.2 39.6

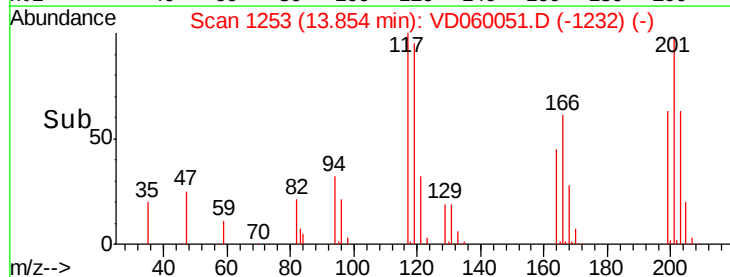
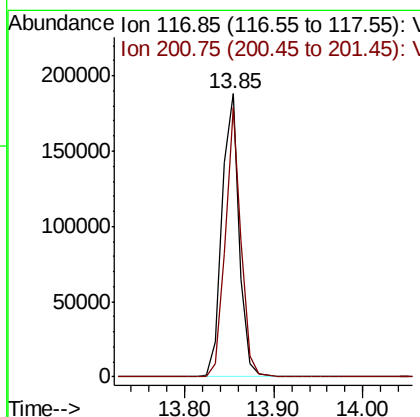
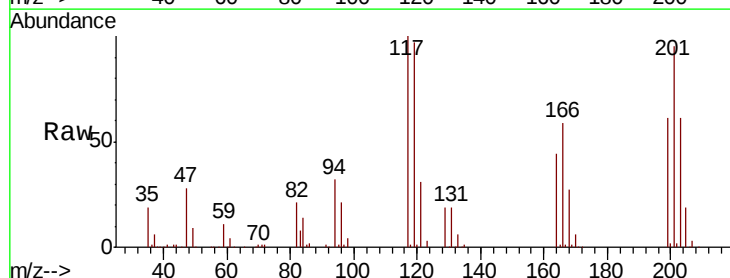
Manual Integrations
APPROVED

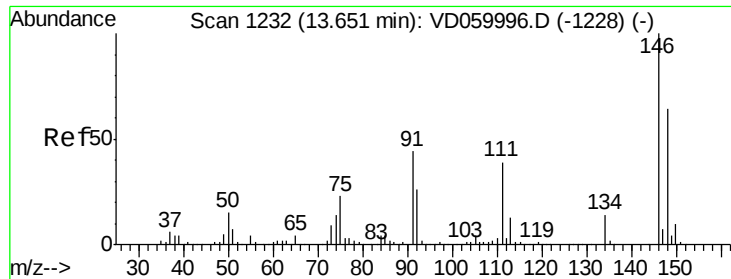
apatel
9/21/2018 12:02:14 PM



#90
Hexachloroethane
Concen: 19.358 ug/l
RT: 13.85 min Scan# 1253
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 117 Resp: 256590
Ion Ratio Lower Upper
117 100
201 95.2 42.1 126.4





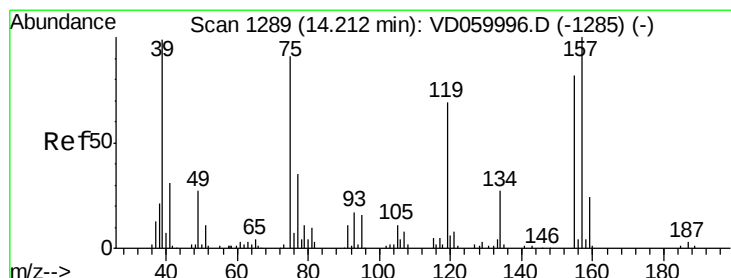
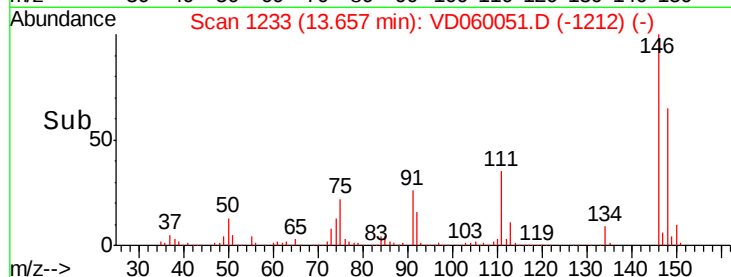
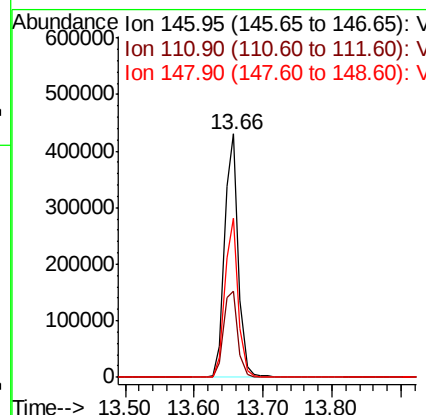
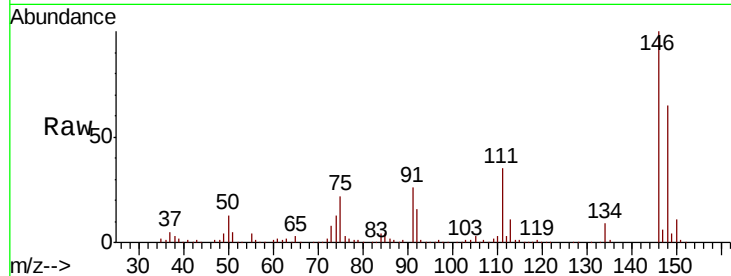
#91
 1,2-Dichlorobenzene
 Concen: 20.352 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.4	19.6	58.7
148	65.3	31.9	95.7

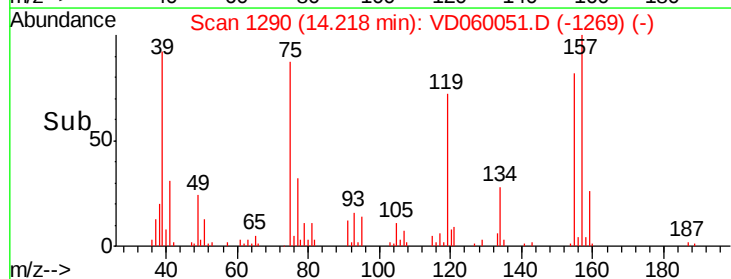
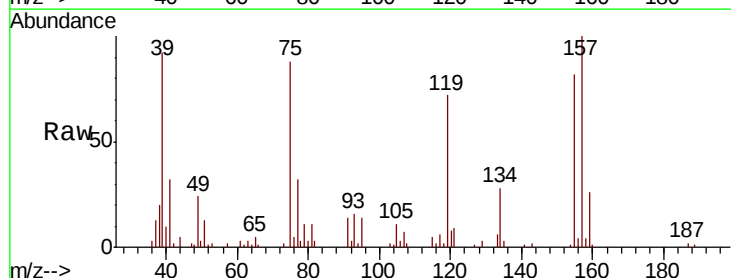
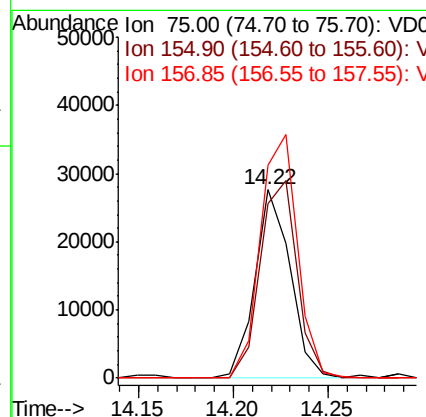
Manual Integrations
 APPROVED

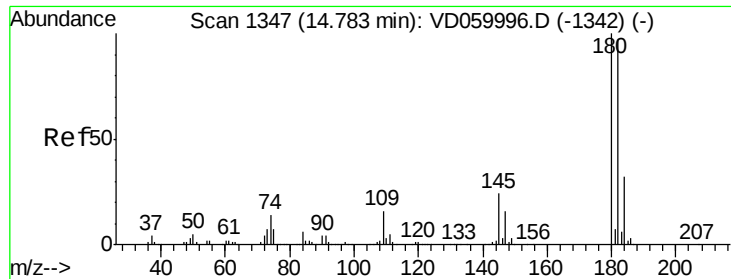
apatel
 9/21/2018 12:02:14 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.549 ug/l
 RT: 14.22 min Scan# 1290
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.0	44.7	134.1
157	113.4	54.7	164.1





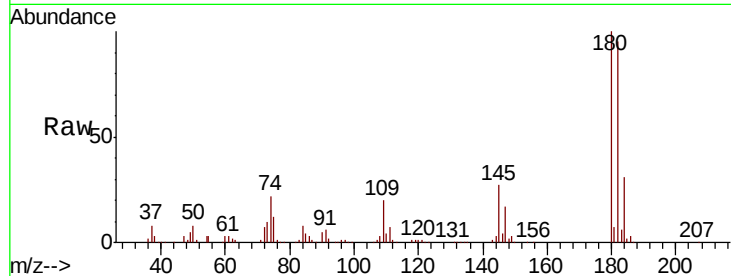
#93
1,2,4-Trichlorobenzene
Concen: 20.442 ug/l
RT: 14.78 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	458068		
182	95.1	48.5	145.6	
145	27.3	11.9	35.7	

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM

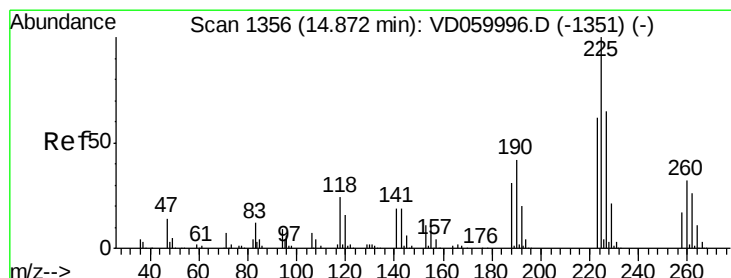
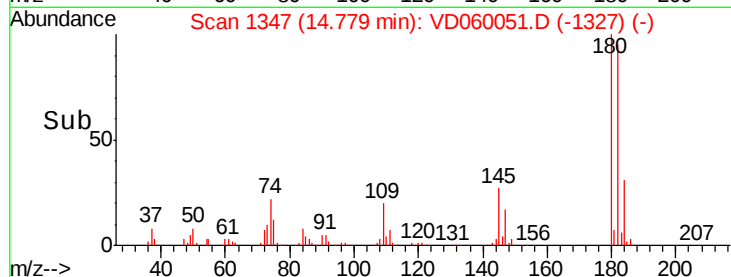
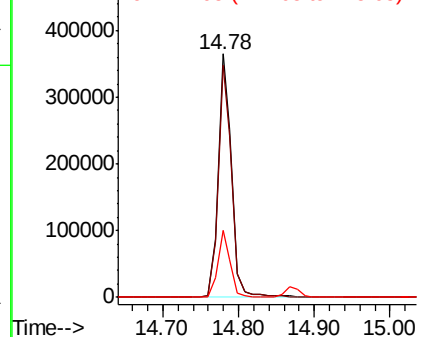


Abundance

Ion 179.85 (179.55 to 180.55): V

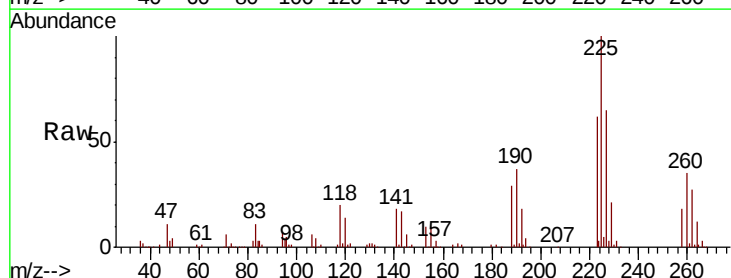
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94
Hexachlorobutadiene
Concen: 21.120 ug/l
RT: 14.88 min Scan# 1357
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	313059		
223	62.3	31.2	93.6	
227	65.5	32.3	96.8	

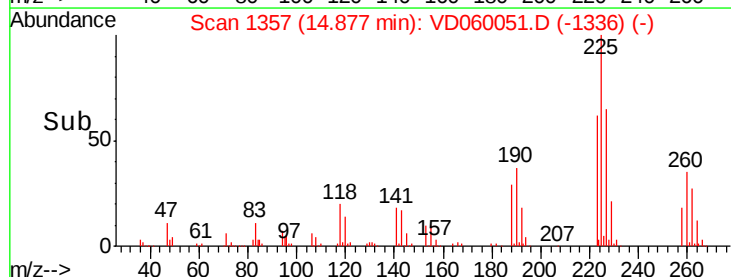
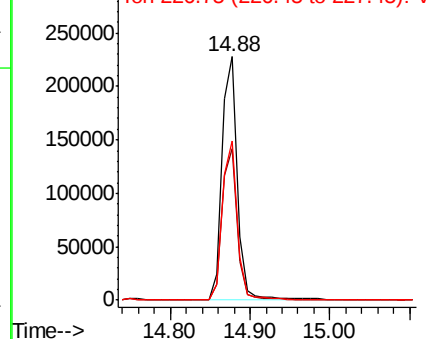


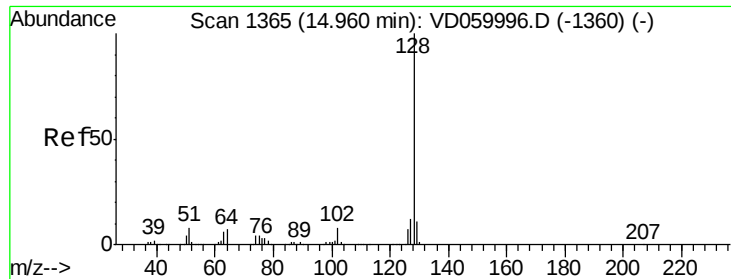
Abundance

Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V





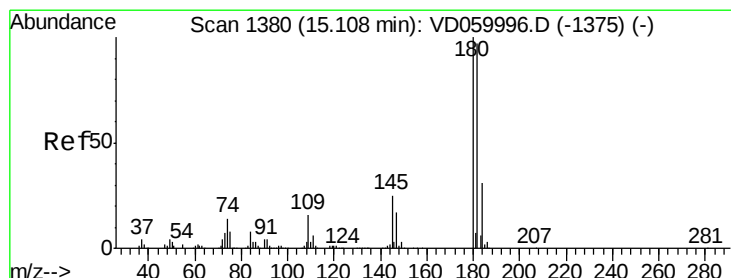
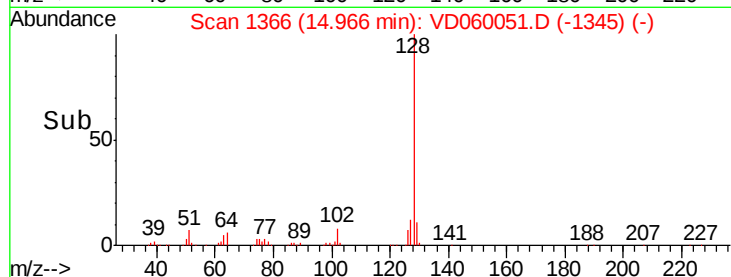
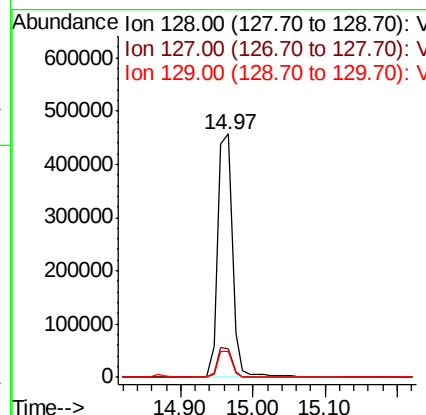
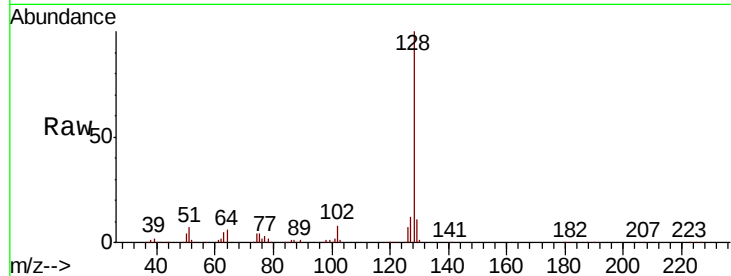
#95
Naphthalene
Concen: 18.611 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	9.7	14.5
129	10.5	8.9	13.3

Manual Integrations
APPROVED

apatel
9/21/2018 12:02:14 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.236 ug/l
RT: 15.10 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.6	145.9
145	31.0	12.7	38.1

