

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122018\
 Data File : VD060653.D
 Acq On : 20 Dec 2018 10:58
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 12/21/2018 11:32:21 AM

Quant Time: Dec 20 14:56:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 14:42:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1524439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2072609	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1662291	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	864213	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.79	65	53921	5.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.36%	
35) Dibromofluoromethane	6.33	113	77248	5.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.32%	
50) Toluene-d8	9.46	98	229325	5.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.18%	
62) 4-Bromofluorobenzene	12.42	95	80517	5.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.50%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.61	85	87833	3.995	ug/l 98
3) Chloromethane	1.77	50	90048	4.985	ug/l 95
4) Vinyl Chloride	1.88	62	66359	4.474	ug/l 99
5) Bromomethane	2.17	94	22092	5.729	ug/l 95
6) Chloroethane	2.28	64	23214	4.715	ug/l 99
7) Trichlorofluoromethane	2.53	101	76686	4.482	ug/l 95
8) Diethyl Ether	2.84	74	11874	4.268	ug/l 78
9) 1,1,2-Trichlorotrifluoroet	3.11	101	50717	4.780	ug/l 92
10) Methyl Iodide	3.27	142	42579	3.504	ug/l 99
11) Tert butyl alcohol	3.98	59	9375	19.948	ug/l # 74
12) 1,1-Dichloroethene	3.09	96	43629	5.091	ug/l 97
13) Acrolein	3.00	56	11435	27.817	ug/l 100
14) Allyl chloride	3.55	41	73641	4.519	ug/l 93
15) Acrylonitrile	4.10	53	57681	21.660	ug/l 93
16) Acetone	3.17	43	45416	23.370	ug/l 94
17) Carbon Disulfide	3.34	76	126608	4.414	ug/l 99
18) Methyl Acetate	3.56	43	24202	4.981	ug/l # 93
19) Methyl tert-butyl Ether	4.13	73	90414	3.929	ug/l 99
20) Methylene Chloride	3.74	84	119299	6.859	ug/l 98
21) trans-1,2-Dichloroethene	4.11	96	79268	4.378	ug/l 96
22) Diisopropyl ether	4.86	45	238845	4.320	ug/l 97
23) Vinyl Acetate	4.81	43	563981	20.770	ug/l 98
24) 1,1-Dichloroethane	4.76	63	127157	4.390	ug/l 100
25) 2-Butanone	5.62	43	76557	19.909	ug/l 99
26) 2,2-Dichloropropane	5.60	77	102367	4.435	ug/l 98
27) cis-1,2-Dichloroethene	5.60	96	78491	4.230	ug/l 95
28) Bromochloromethane	5.93	49	59726	4.952	ug/l 99
29) Tetrahydrofuran	5.95	42	45188	21.410	ug/l 93
30) Chloroform	6.10	83	127028	4.340	ug/l 97
31) Cyclohexane	6.37	56	141137	5.053	ug/l 96
32) 1,1,1-Trichloroethane	6.30	97	104117	4.284	ug/l 96
36) 1,1-Dichloropropene	6.52	75	106254	4.802	ug/l 98
37) Ethyl Acetate	5.70	43	41123	4.503	ug/l 97
38) Carbon Tetrachloride	6.50	117	91528	4.585	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122018\
 Data File : VD060653.D
 Acq On : 20 Dec 2018 10:58
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 12/21/2018 11:32:21 AM

Quant Time: Dec 20 14:56:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 14:42:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	112839	4.348	ug/l	95
40) Benzene	6.80	78	264532	4.608	ug/l	97
41) Methacrylonitrile	5.93	41	20013m	3.698	ug/l	
42) 1,2-Dichloroethane	6.90	62	64153	4.496	ug/l	99
43) Isopropyl Acetate	8.35	43	48205	3.886	ug/l #	97
44) Trichloroethene	7.73	130	73220	4.262	ug/l	96
45) 1,2-Dichloropropane	8.10	63	63343	4.543	ug/l	98
46) Dibromomethane	8.22	93	35371	4.374	ug/l	93
47) Bromodichloromethane	8.49	83	84252	4.309	ug/l	98
48) Methyl methacrylate	8.25	41	29028	3.845	ug/l	93
49) 1,4-Dioxane	8.23	88	5666	80.147	ug/l #	68
51) 4-Methyl-2-Pentanone	9.34	43	154223	20.273	ug/l	96
52) Toluene	9.55	92	162687	4.462	ug/l	93
53) t-1,3-Dichloropropene	9.91	75	62970	3.793	ug/l	97
54) cis-1,3-Dichloropropene	9.10	75	89907	4.143	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	42963	4.443	ug/l	96
56) Ethyl methacrylate	10.03	69	31206	3.155	ug/l	91
57) 1,3-Dichloropropane	10.38	76	67885	4.402	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.92	63	132450	25.378	ug/l	94
59) 2-Hexanone	10.48	43	102065	18.883	ug/l	94
60) Dibromochloromethane	10.64	129	49609	3.784	ug/l	98
61) 1,2-Dibromoethane	10.76	107	41332	3.974	ug/l	98
64) Tetrachloroethene	10.25	164	71826	4.468	ug/l	95
65) Chlorobenzene	11.31	112	175679	4.498	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	54804	4.282	ug/l	98
67) Ethyl Benzene	11.43	91	307737	4.586	ug/l	98
68) m/p-Xylenes	11.56	106	227022	9.316	ug/l	93
69) o-Xylene	11.93	106	100786	4.266	ug/l	85
70) Styrene	11.96	104	163670	4.293	ug/l	97
71) Bromoform	12.11	173	30342	3.520	ug/l	93
73) Isopropylbenzene	12.27	105	293331	4.433	ug/l	100
74) N-amyl acetate	12.13	43	57413	3.663	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.56	83	44361	4.044	ug/l	98
76) 1,2,3-Trichloropropane	12.60	75	42854	4.025	ug/l	96
77) Bromobenzene	12.54	156	73902	4.191	ug/l	94
78) n-propylbenzene	12.64	91	384167	4.557	ug/l	98
79) 2-Chlorotoluene	12.70	91	198944	4.352	ug/l	96
80) 1,3,5-Trimethylbenzene	12.79	105	230961	4.536	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	10412	3.367	ug/l	98
82) 4-Chlorotoluene	12.80	91	243253	4.853	ug/l	97
83) tert-Butylbenzene	13.05	119	255490	4.403	ug/l	98
84) 1,2,4-Trimethylbenzene	13.09	105	235670	4.455	ug/l	96
85) sec-Butylbenzene	13.22	105	311546	4.312	ug/l	100
86) p-Isopropyltoluene	13.34	119	259545	4.595	ug/l	98
87) 1,3-Dichlorobenzene	13.30	146	140493	4.383	ug/l	93
88) 1,4-Dichlorobenzene	13.39	146	141968	4.488	ug/l	99
89) n-Butylbenzene	13.65	91	280046	4.853	ug/l	99
90) Hexachloroethane	13.86	117	56163	3.913	ug/l	87
91) 1,2-Dichlorobenzene	13.66	146	121581	4.776	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.23	75	5009	3.865	ug/l #	56

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD122018\
Data File : VD060653.D
Acq On : 20 Dec 2018 10:58
Operator : VA/AP
Sample : VSTDICC005
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

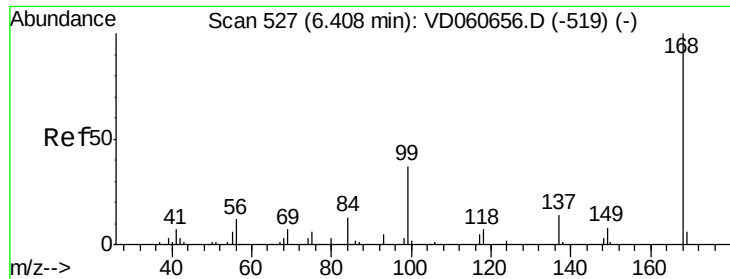
Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM

Quant Time: Dec 20 14:56:48 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 14:42:21 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	85943	4.076	ug/l	100
94) Hexachlorobutadiene	14.88	225	66101	4.356	ug/l	99
95) Naphthalene	14.97	128	90358	3.520	ug/l	98
96) 1,2,3-Trichlorobenzene	15.12	180	63267	3.813	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 598

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion:168 Resp: 1524439

Ion Ratio Lower Upper

168 100

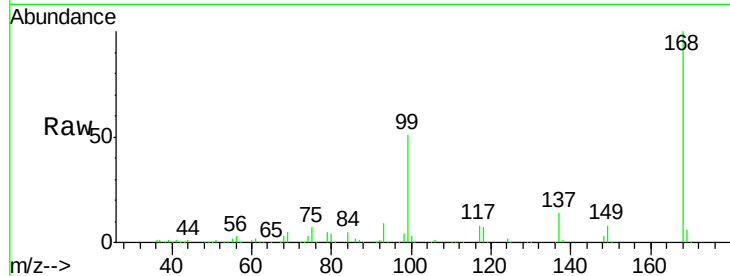
99 50.7 38.7 58.1

Manual Integrations

APPROVED

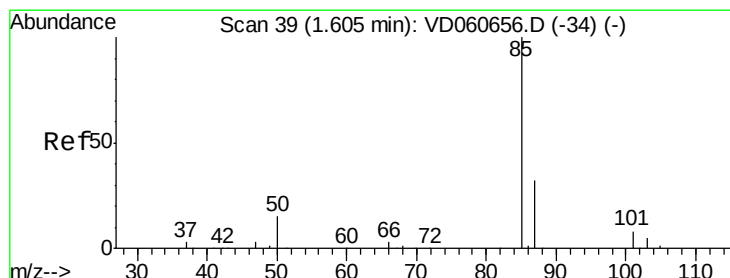
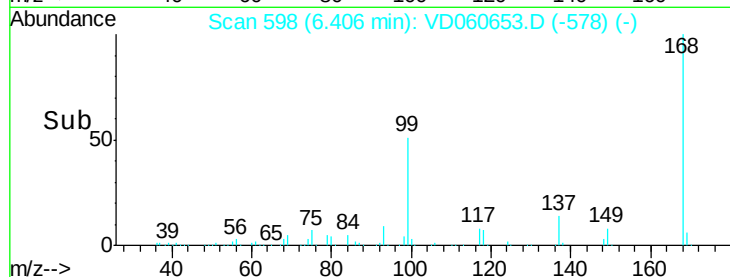
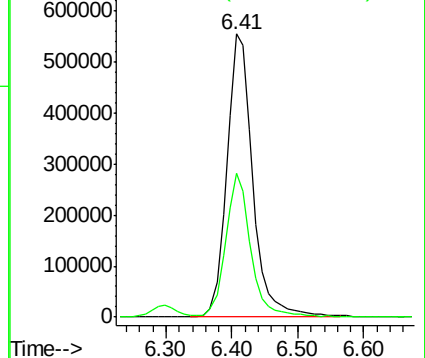
apatel

12/21/2018 11:32:21 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 3.995 ug/l

RT: 1.61 min Scan# 111

Delta R.T. 0.01 min

Lab File: VD060653.D

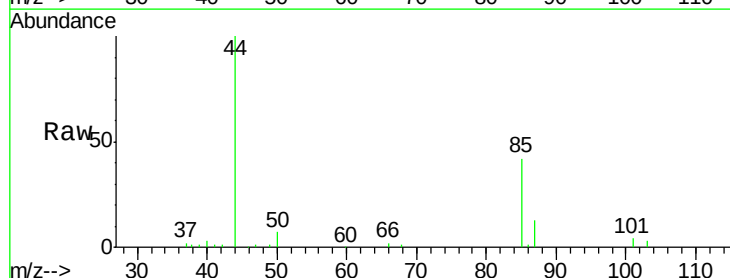
Acq: 20 Dec 2018 10:58

Tgt Ion: 85 Resp: 87833

Ion Ratio Lower Upper

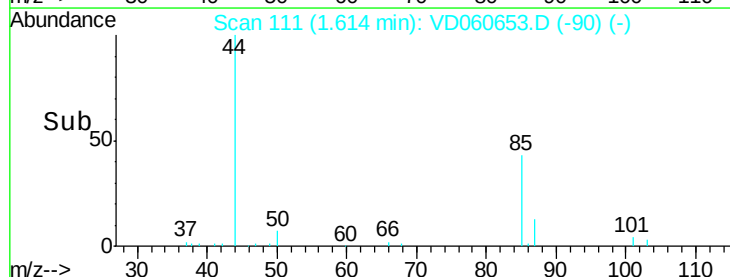
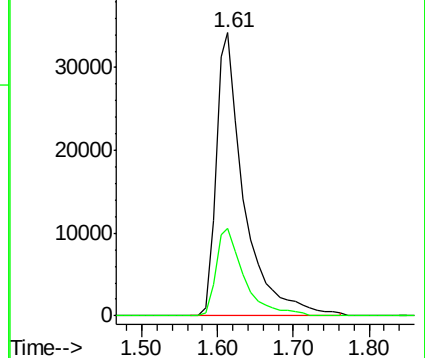
85 100

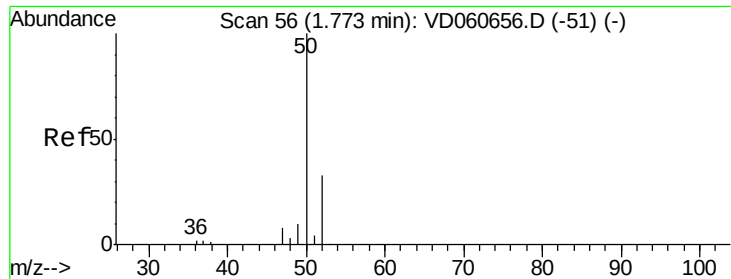
87 31.0 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.985 ug/l

RT: 1.77 min Scan# 127

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 90048

Ion Ratio Lower Upper

50 100

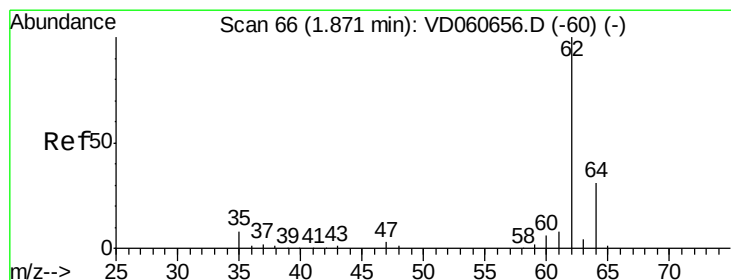
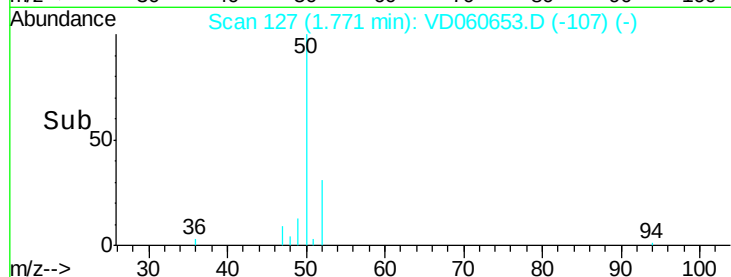
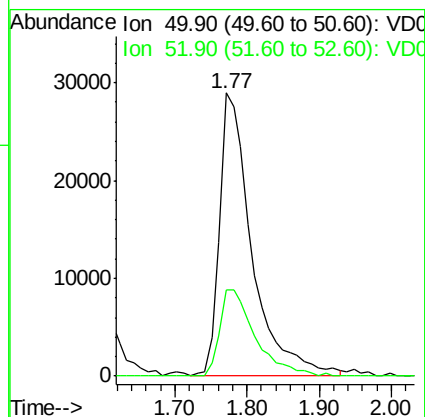
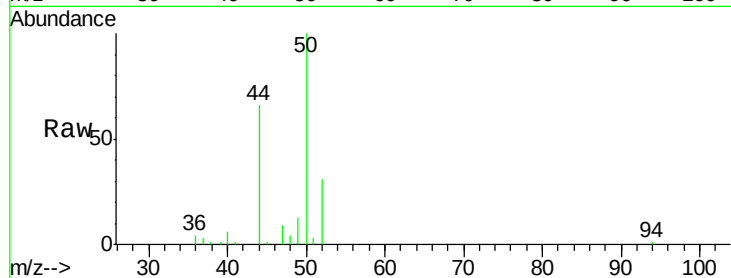
52 30.5 26.6 39.8

Manual Integrations

APPROVED

apatel

12/21/2018 11:32:21 AM



#4

Vinyl Chloride

Concen: 4.474 ug/l

RT: 1.88 min Scan# 138

Delta R.T. 0.01 min

Lab File: VD060653.D

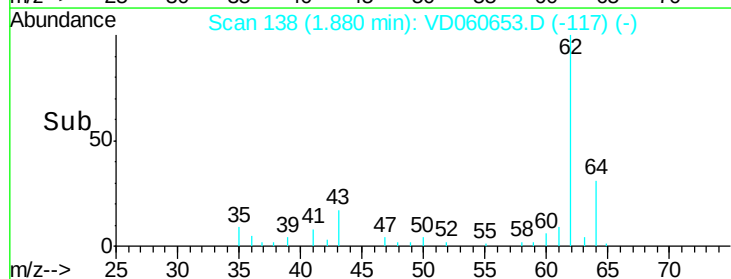
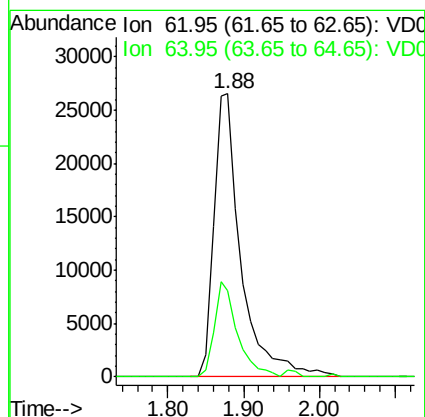
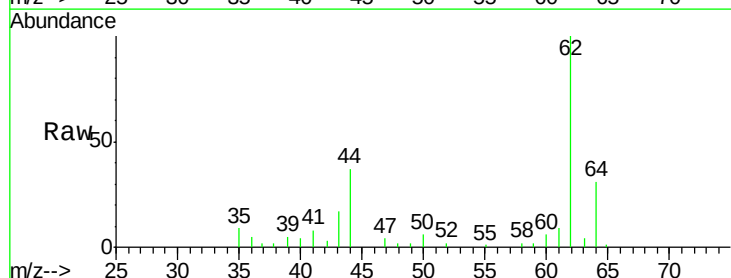
Acq: 20 Dec 2018 10:58

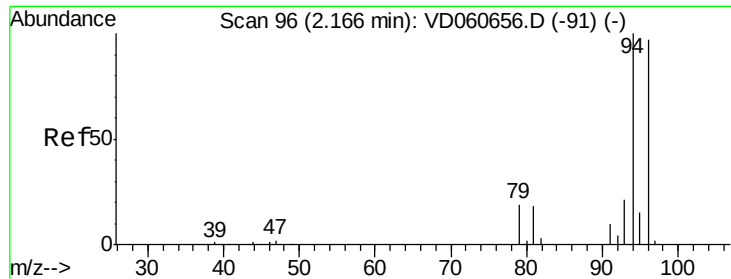
Tgt Ion: 62 Resp: 66359

Ion Ratio Lower Upper

62 100

64 30.6 25.0 37.6





#5

Bromomethane

Concen: 5.729 ug/l

RT: 2.17 min Scan# 168

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 22092

Ion Ratio Lower Upper

94 100

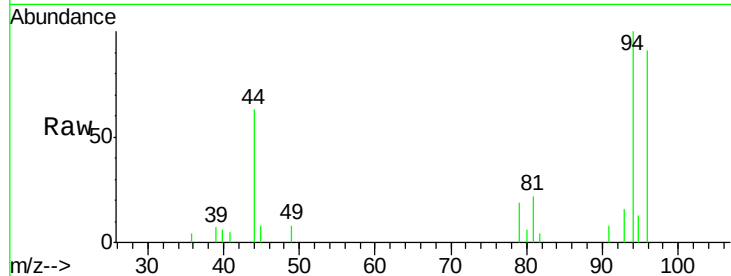
96 91.3 77.2 115.8

Manual Integrations

APPROVED

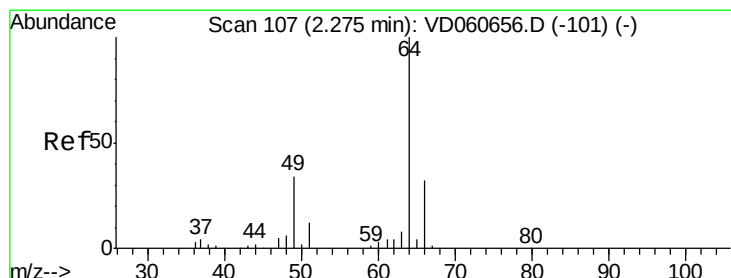
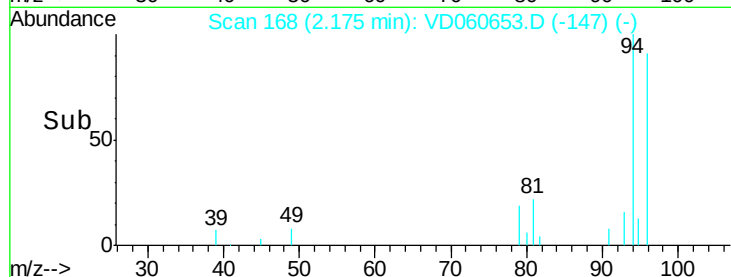
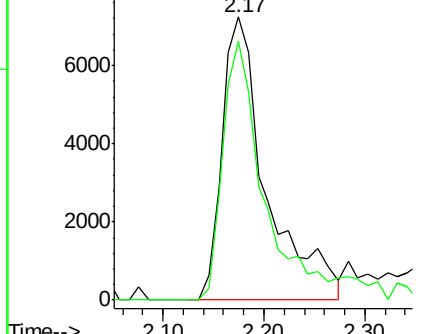
apatel

12/21/2018 11:32:21 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.715 ug/l

RT: 2.28 min Scan# 179

Delta R.T. 0.01 min

Lab File: VD060653.D

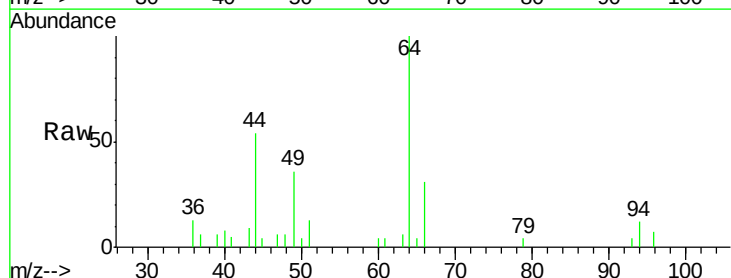
Acq: 20 Dec 2018 10:58

Tgt Ion: 64 Resp: 23214

Ion Ratio Lower Upper

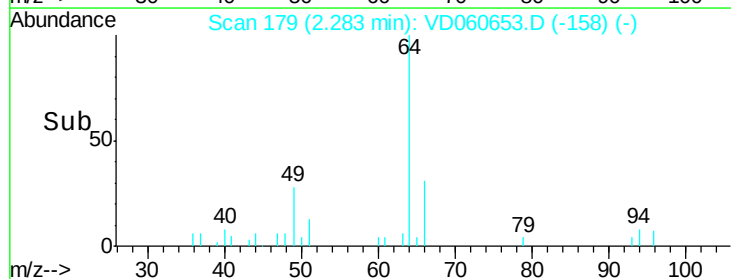
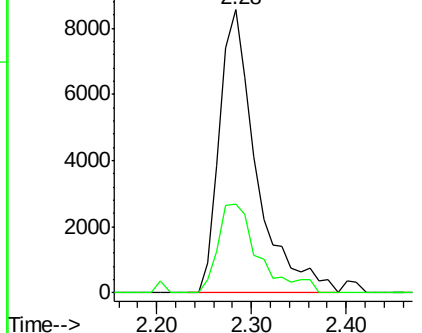
64 100

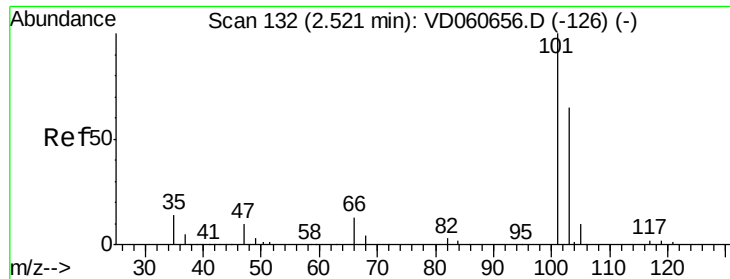
66 31.2 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

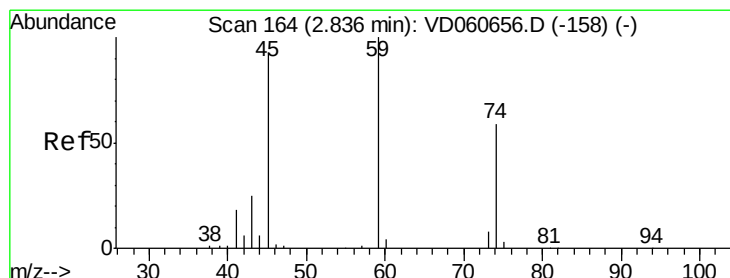
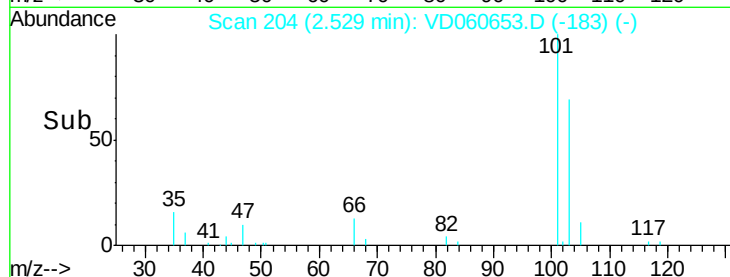
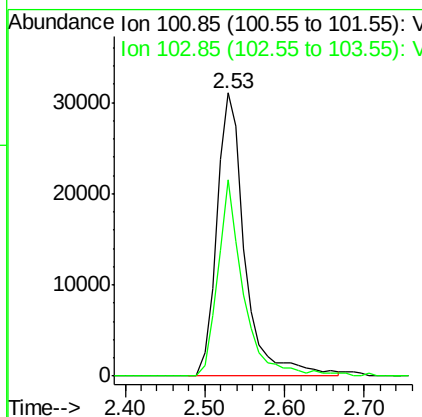
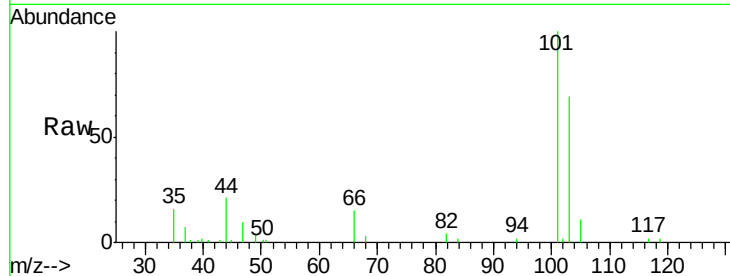
Trichlorofluoromethane
Concen: 4.482 ug/l
RT: 2.53 min Scan# 204
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 101 Resp: 76686
Ion Ratio Lower Upper
101 100
103 69.2 51.9 77.9

Manual Integrations
APPROVED

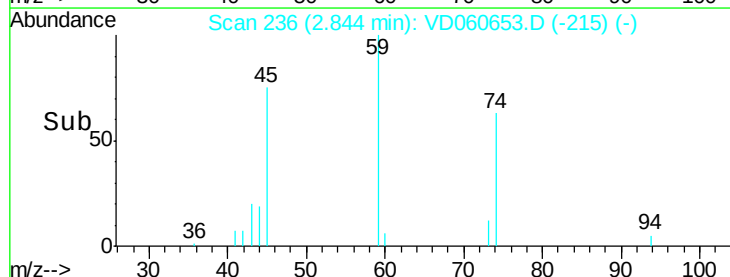
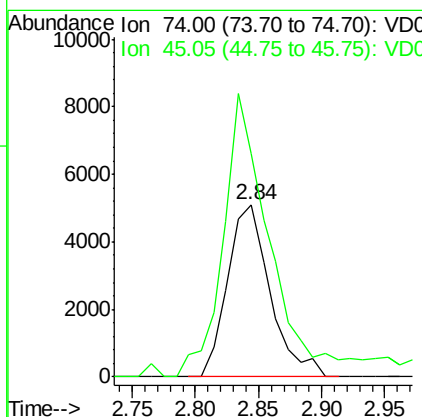
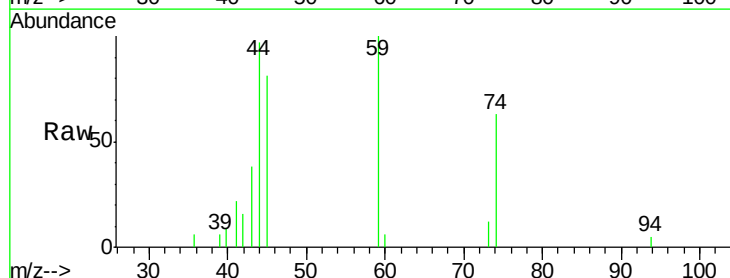
apatel
12/21/2018 11:32:21 AM

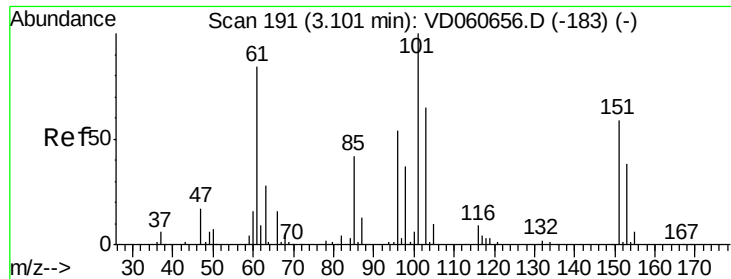


#8

Diethyl Ether
Concen: 4.268 ug/l
RT: 2.84 min Scan# 236
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 74 Resp: 11874
Ion Ratio Lower Upper
74 100
45 129.3 79.3 238.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.780 ug/l

RT: 3.11 min Scan# 263

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

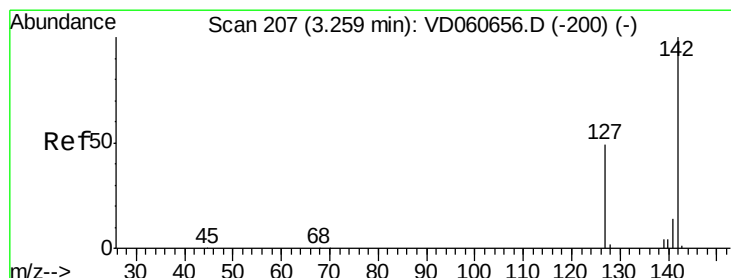
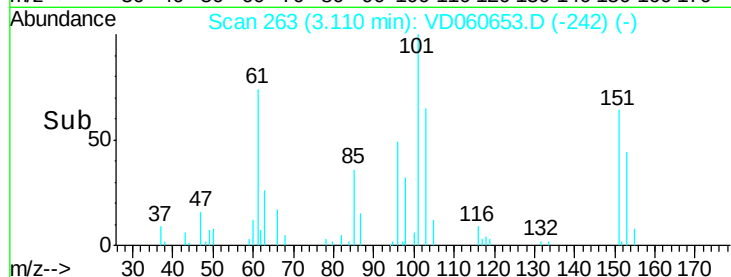
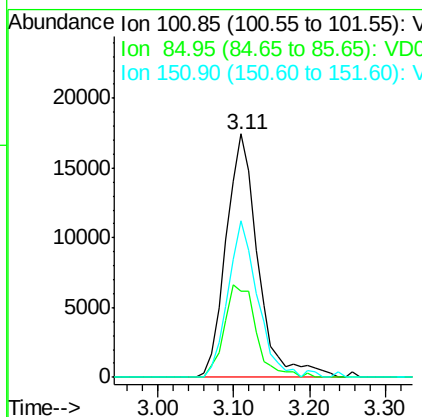
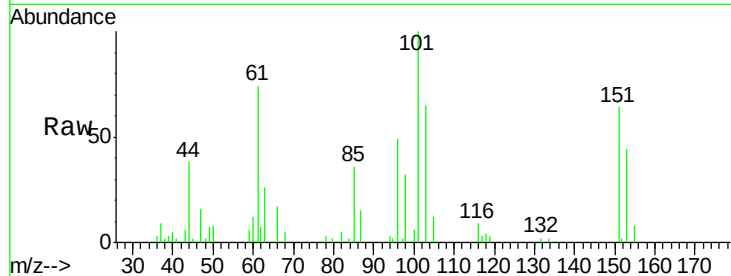
ClientSampleId :

VSTDIC005

Tgt Ion:	101	Resp:	50717
Ion Ratio	Lower	Upper	
101	100		
85	35.6	33.4	50.0
151	64.2	47.5	71.3

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#10

Methyl Iodide

Concen: 3.504 ug/l

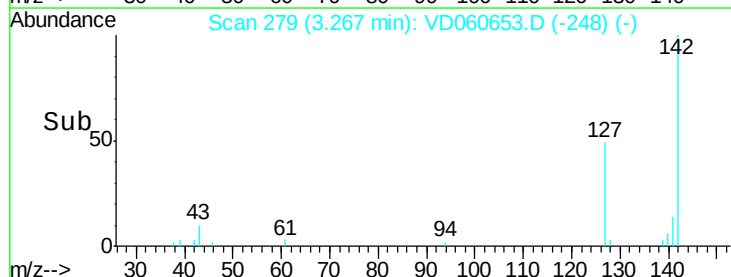
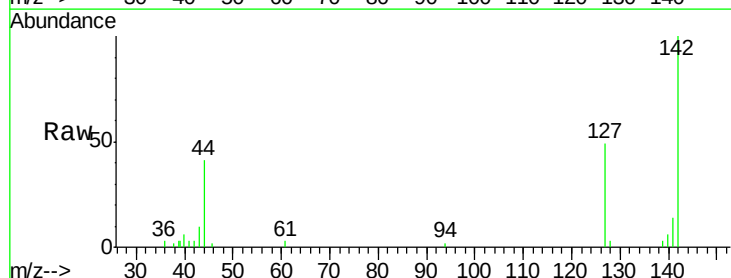
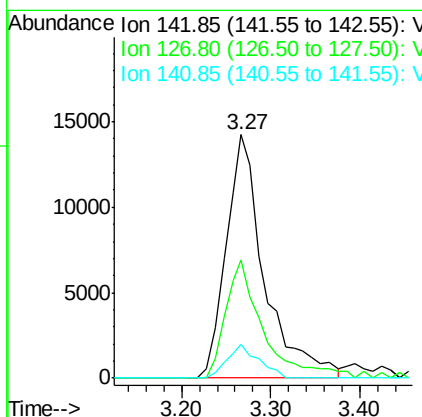
RT: 3.27 min Scan# 279

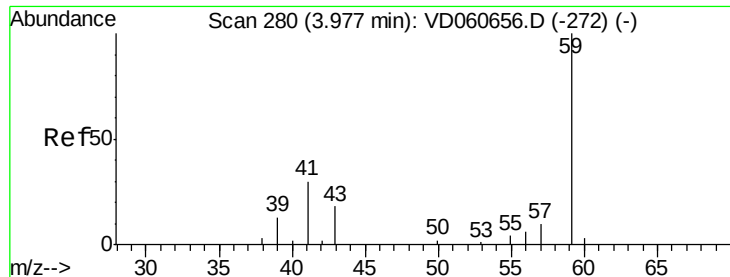
Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	142	Resp:	42579
Ion Ratio	Lower	Upper	
142	100		
127	48.5	39.5	59.3
141	14.0	11.3	16.9





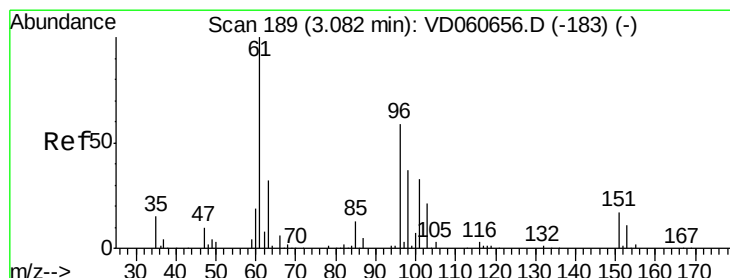
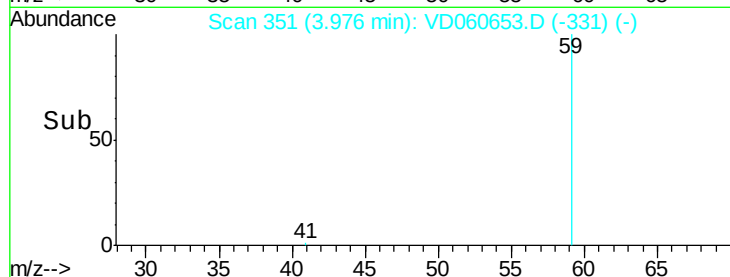
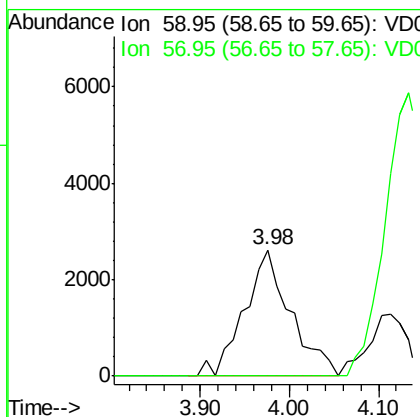
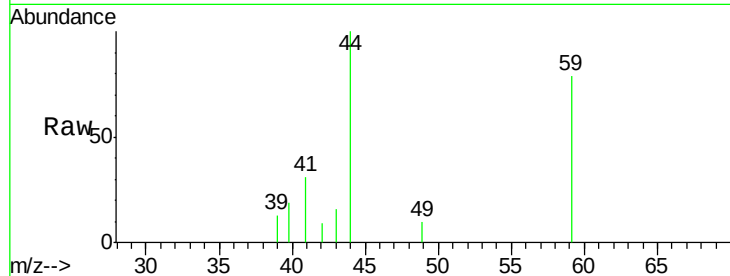
#11
Tert butyl alcohol
Concen: 19.948 ug/l
RT: 3.98 min Scan# 351
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 59 Resp: 9375
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

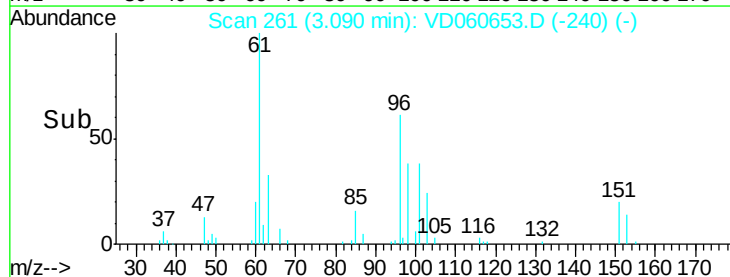
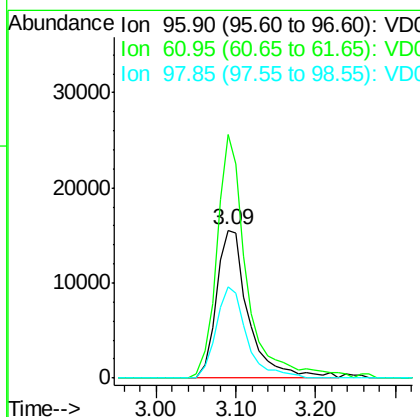
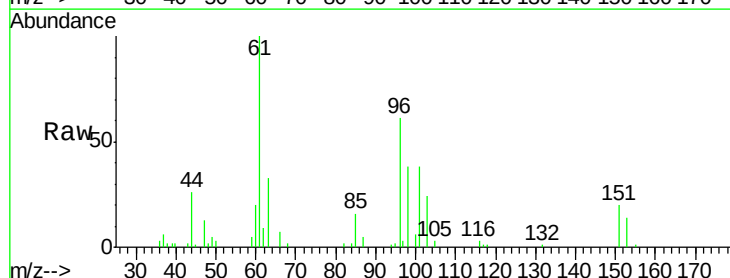
Manual Integrations
APPROVED

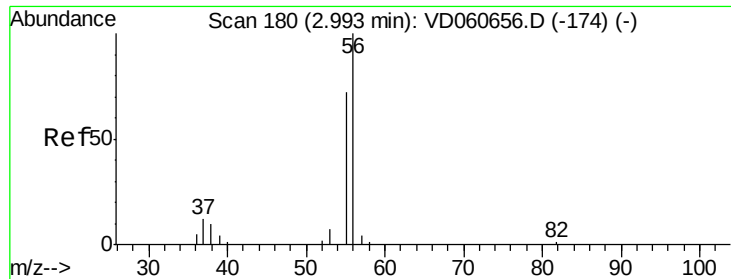
apatel
12/21/2018 11:32:21 AM



#12
1,1-Dichloroethene
Concen: 5.091 ug/l
RT: 3.09 min Scan# 261
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 96 Resp: 43629
Ion Ratio Lower Upper
96 100
61 164.9 136.2 204.4
98 61.9 50.7 76.1





#13

Acrolein

Concen: 27.817 ug/l

RT: 3.00 min Scan# 252

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 11435

Ion Ratio Lower Upper

56 100

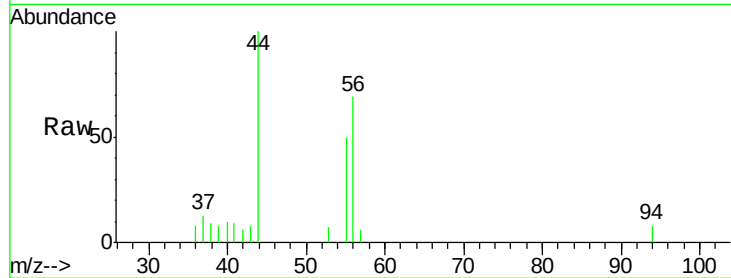
55 71.7 57.7 86.5

Manual Integrations

APPROVED

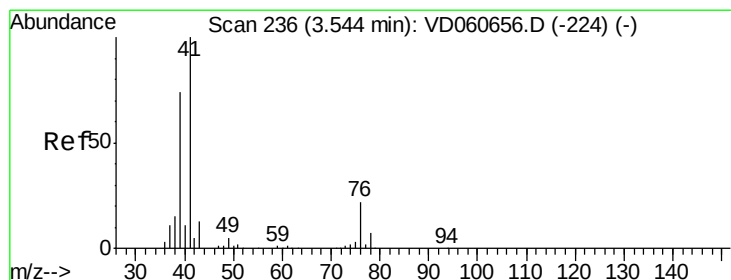
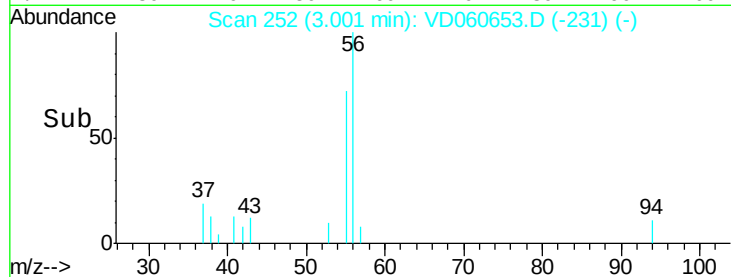
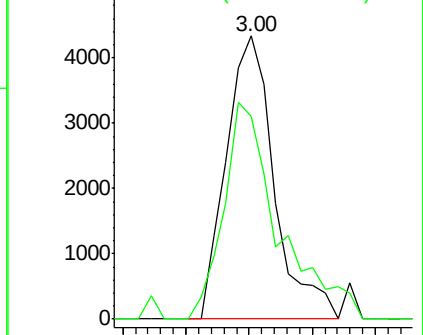
apatel

12/21/2018 11:32:21 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 4.519 ug/l

RT: 3.55 min Scan# 308

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

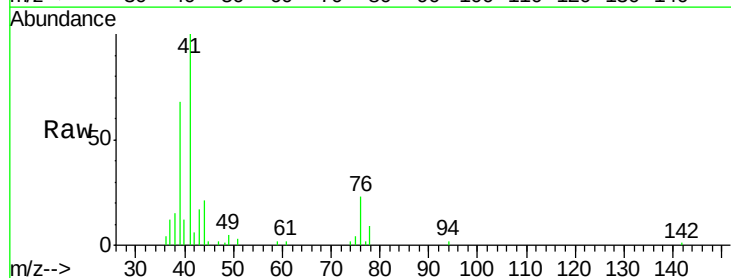
Tgt Ion: 41 Resp: 73641

Ion Ratio Lower Upper

41 100

39 68.4 59.6 89.4

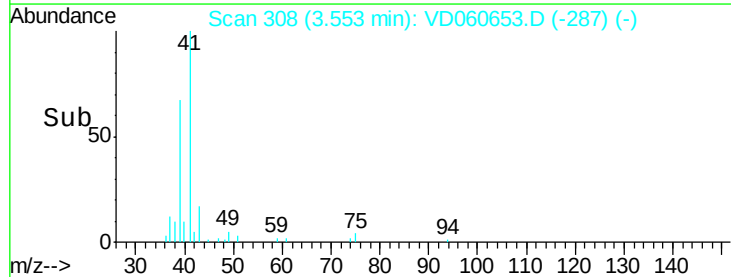
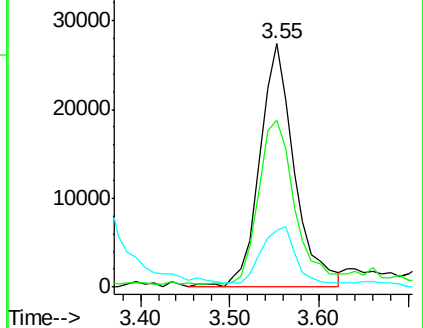
76 23.2 21.8 32.6

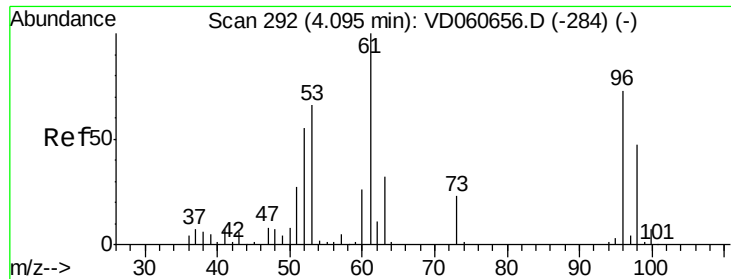


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 21.660 ug/l

RT: 4.10 min Scan# 364

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

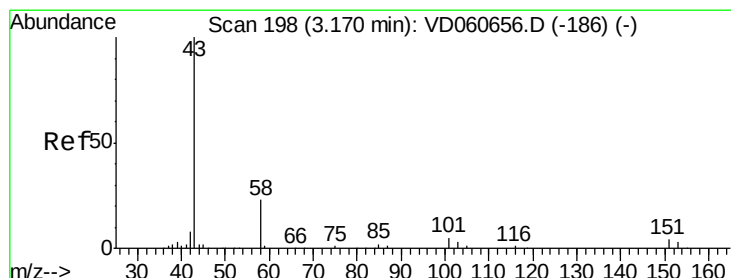
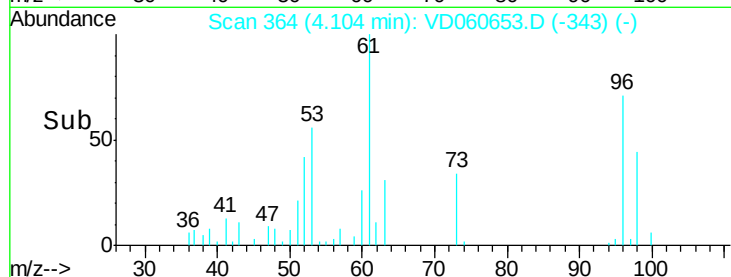
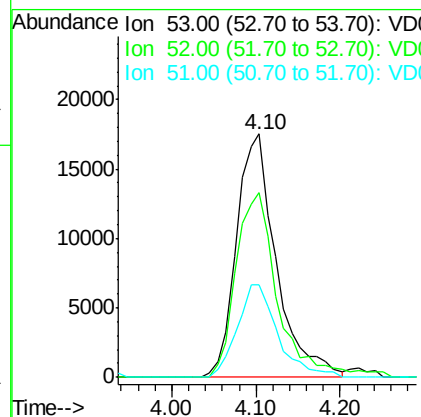
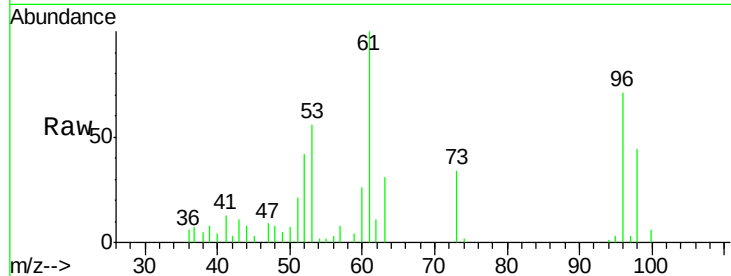
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	57681
Ion	Ratio	Lower	Upper
53	100		
52	75.9	66.7	100.1
51	38.3	32.7	49.1

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#16

Acetone

Concen: 23.370 ug/l

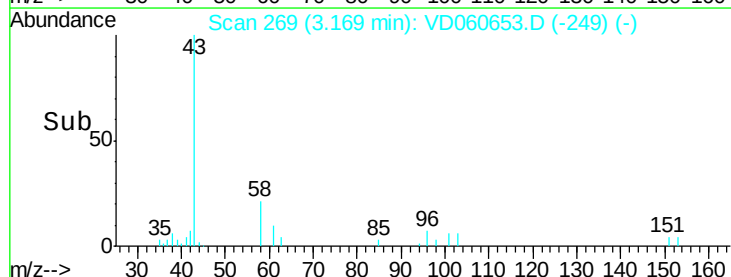
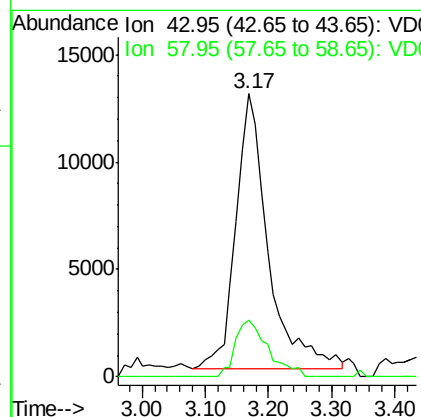
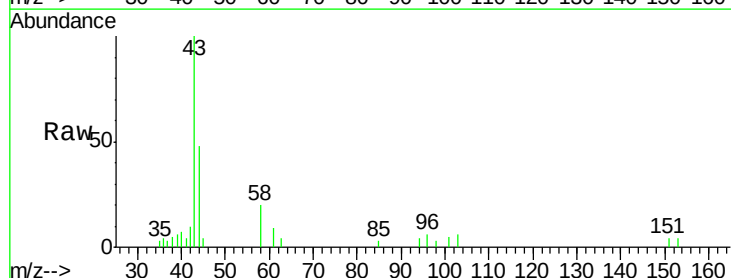
RT: 3.17 min Scan# 269

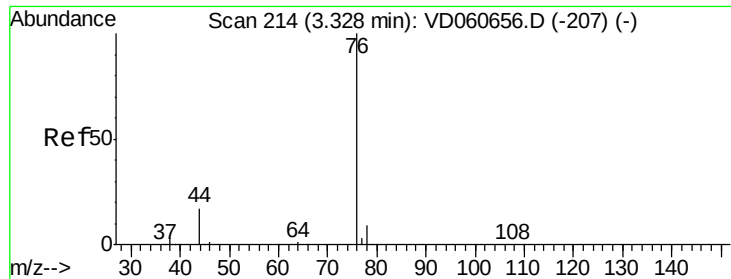
Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	43	Resp:	45416
Ion	Ratio	Lower	Upper
43	100		
58	20.0	18.2	27.2





#17

Carbon Disulfide

Concen: 4.414 ug/l

RT: 3.34 min Scan# 286

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 126608

Ion Ratio Lower Upper

76 100

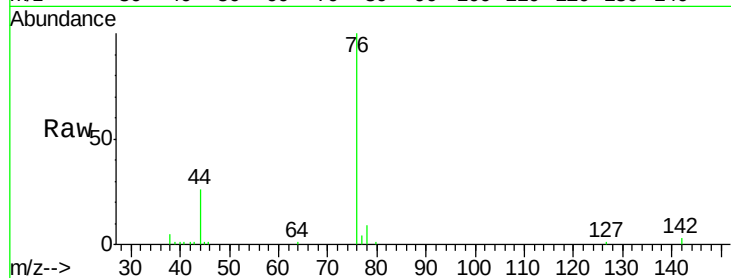
78 8.8 7.4 11.0

Manual Integrations

APPROVED

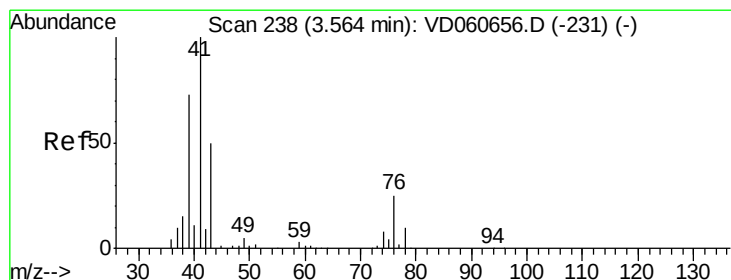
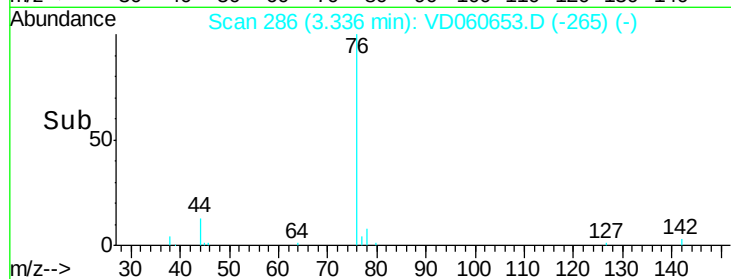
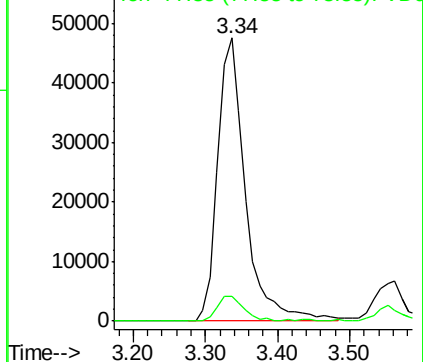
apatel

12/21/2018 11:32:21 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 4.981 ug/l

RT: 3.56 min Scan# 309

Delta R.T. -0.00 min

Lab File: VD060653.D

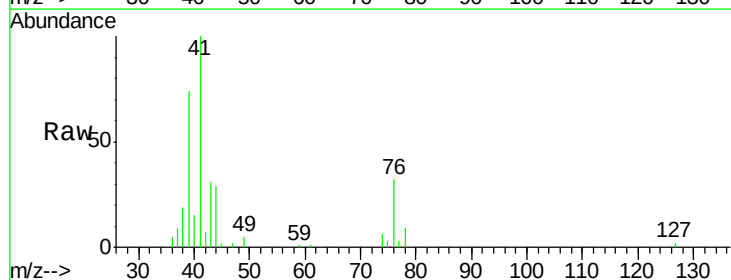
Acq: 20 Dec 2018 10:58

Tgt Ion: 43 Resp: 24202

Ion Ratio Lower Upper

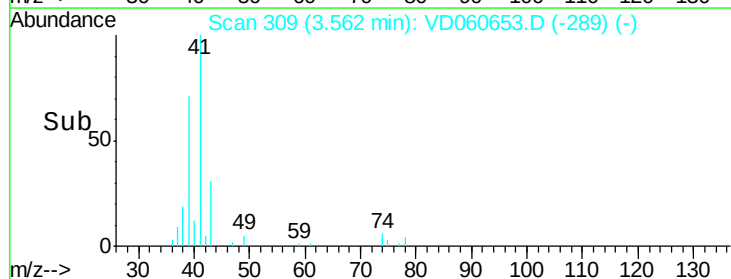
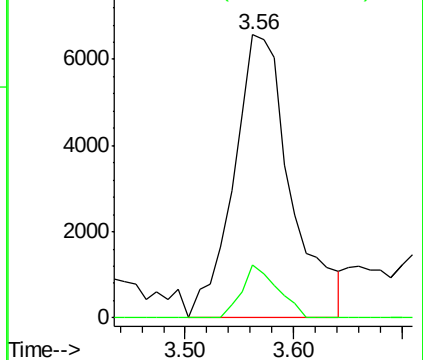
43 100

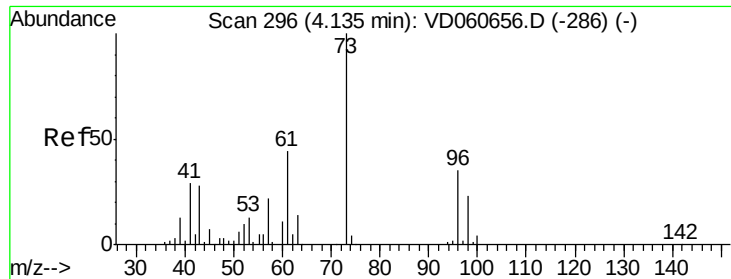
74 18.6 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





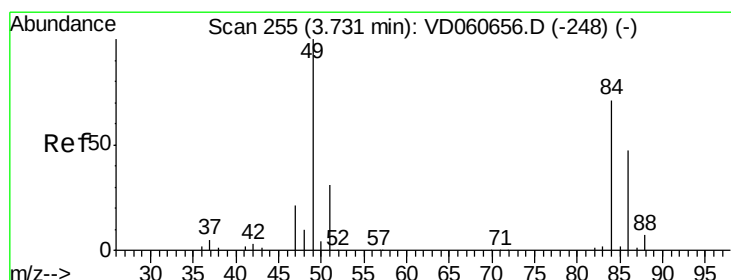
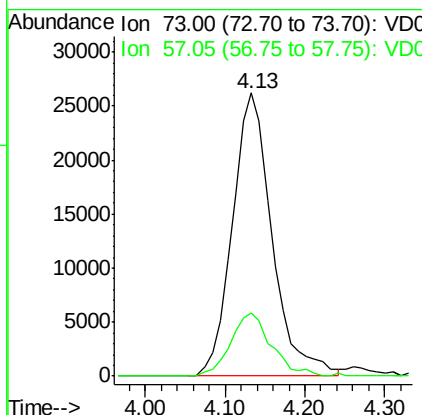
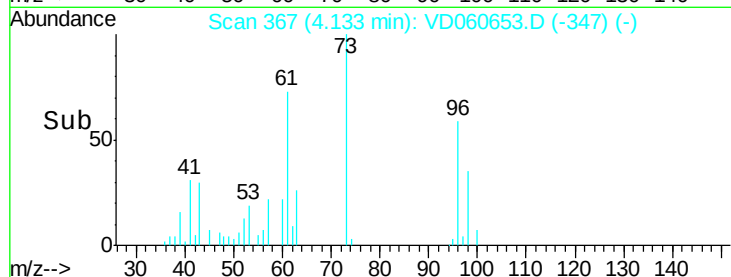
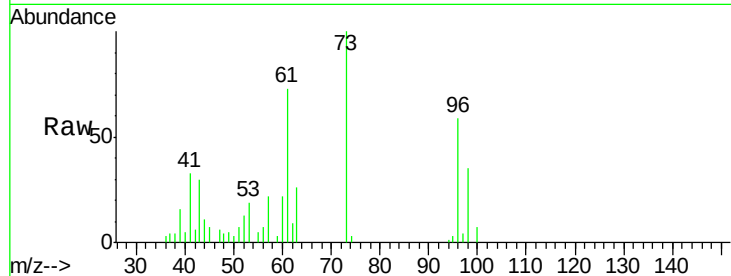
#19
Methyl tert-butyl Ether
Concen: 3.929 ug/l
RT: 4.13 min Scan# 367
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 90414
Ion Ratio Lower Upper
73 100
57 22.4 17.6 26.4

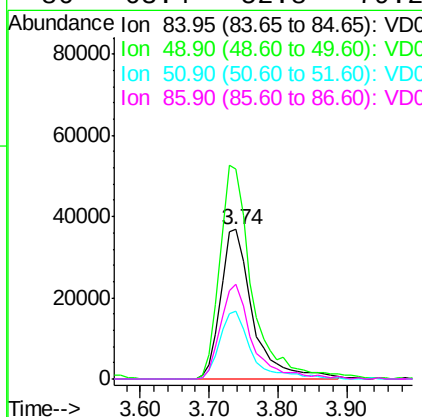
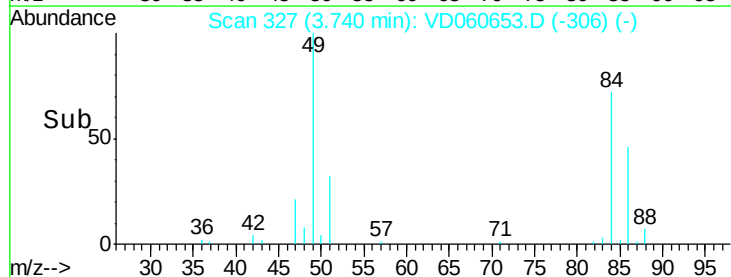
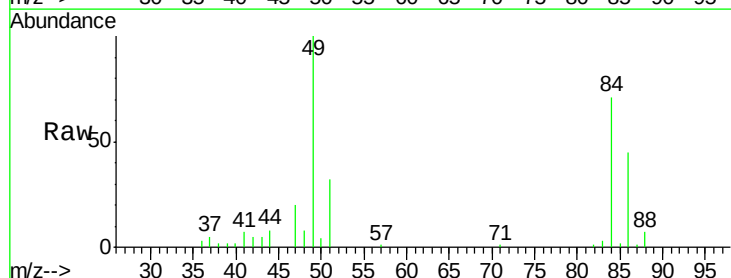
Manual Integrations
APPROVED

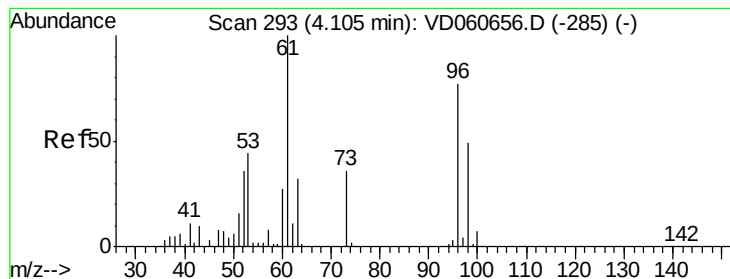
apatel
12/21/2018 11:32:21 AM



#20
Methylene Chloride
Concen: 6.859 ug/l
RT: 3.74 min Scan# 327
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 84 Resp: 119299
Ion Ratio Lower Upper
84 100
49 140.2 113.6 170.4
51 45.5 34.7 52.1
86 63.4 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 4.378 ug/l

RT: 4.11 min Scan# 365

Delta R.T. 0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 79268

Ion Ratio Lower Upper

96 100

61 136.0 104.2 156.2

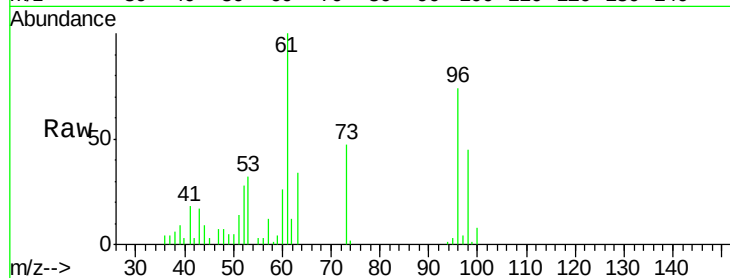
98 61.3 51.2 76.8

Manual Integrations

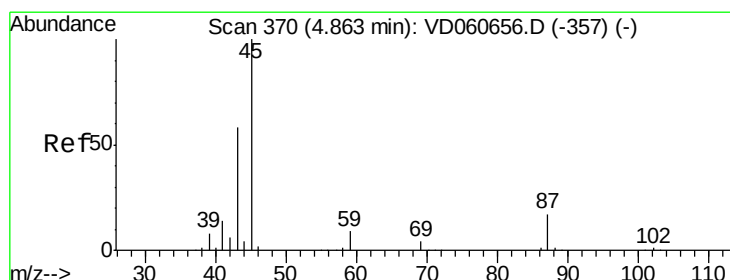
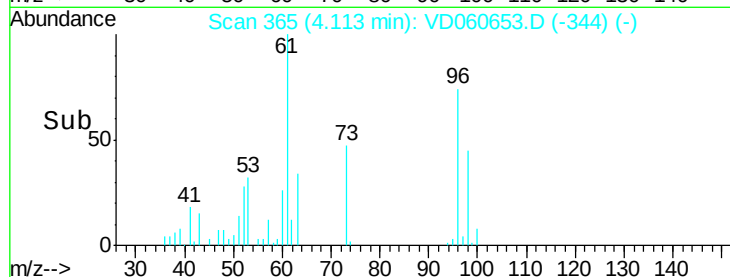
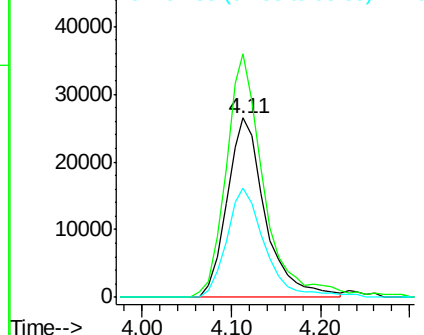
APPROVED

apatel

12/21/2018 11:32:21 AM



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



#22

Diisopropyl ether

Concen: 4.320 ug/l

RT: 4.86 min Scan# 441

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion: 45 Resp: 238845

Ion Ratio Lower Upper

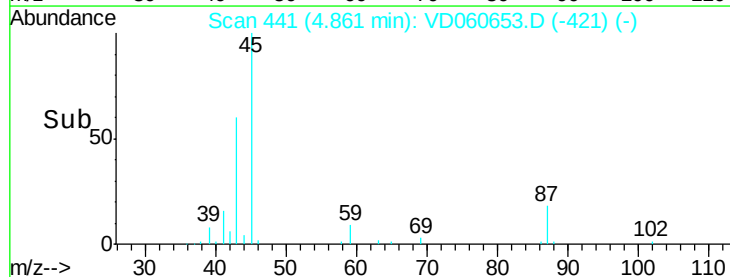
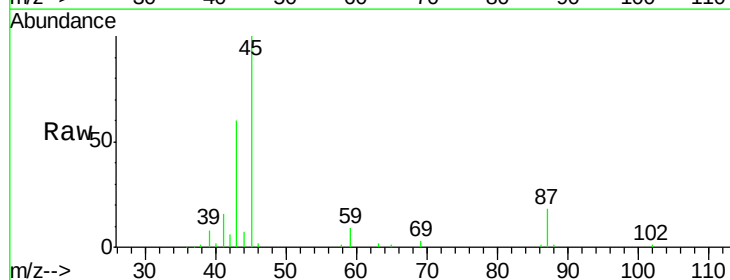
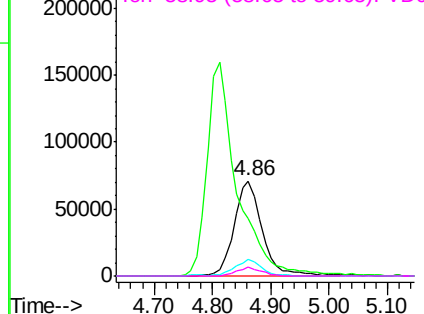
45 100

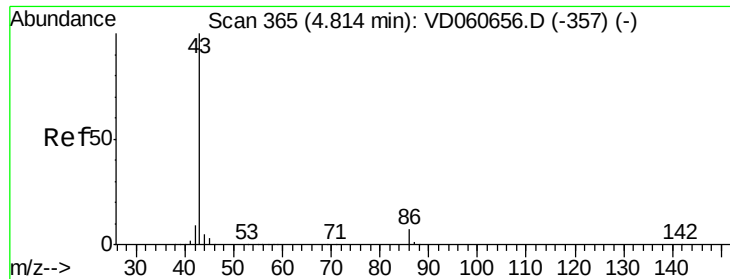
43 60.1 46.1 69.1

87 18.1 13.7 20.5

59 8.9 7.4 11.0

Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 20.770 ug/l

RT: 4.81 min Scan# 436

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 563981

Ion Ratio Lower Upper

43 100

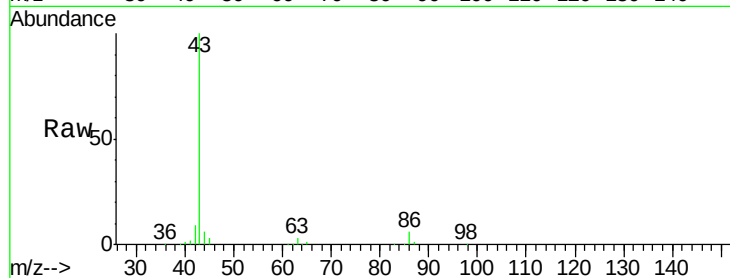
86 6.5 5.6 8.4

Manual Integrations

APPROVED

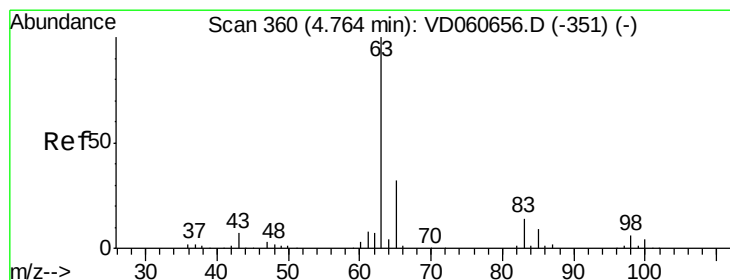
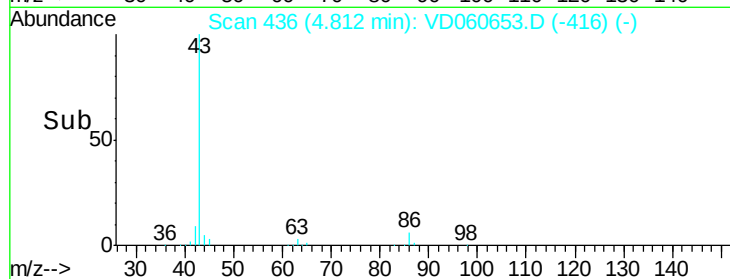
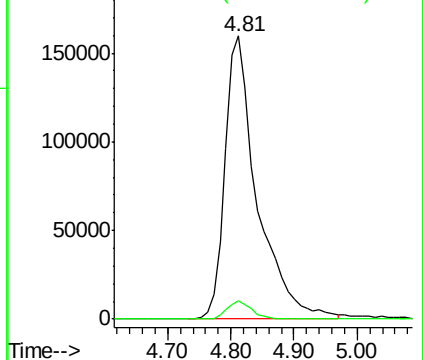
apatel

12/21/2018 11:32:21 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 4.390 ug/l

RT: 4.76 min Scan# 431

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

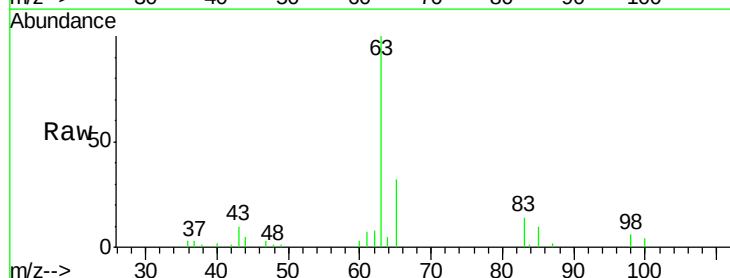
Tgt Ion: 63 Resp: 127157

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.7

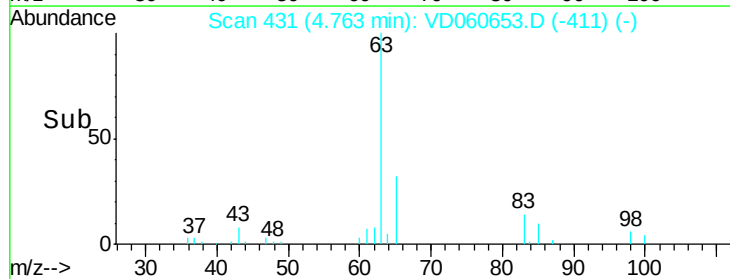
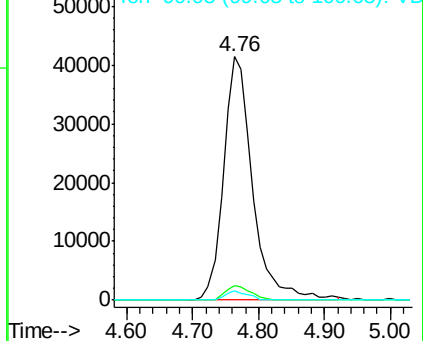
100 3.8 2.0 5.8

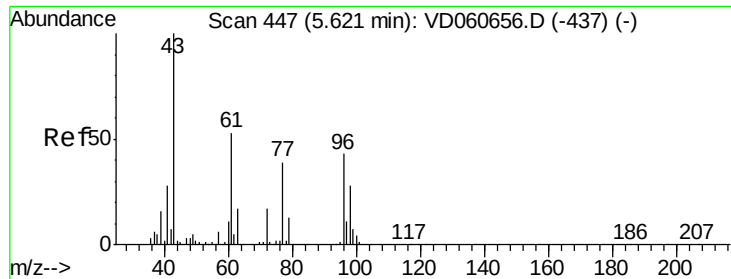


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 19.909 ug/l

RT: 5.62 min Scan# 518

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 76557

Ion Ratio Lower Upper

43 100

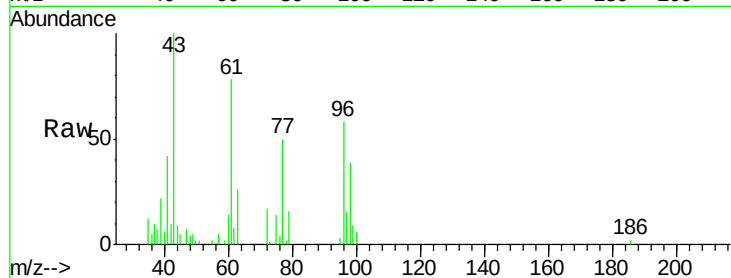
72 16.6 13.7 20.5

Manual Integrations

APPROVED

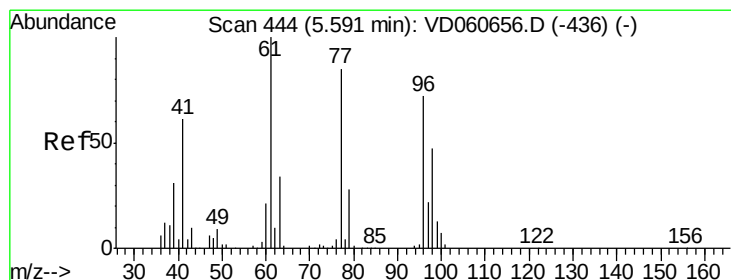
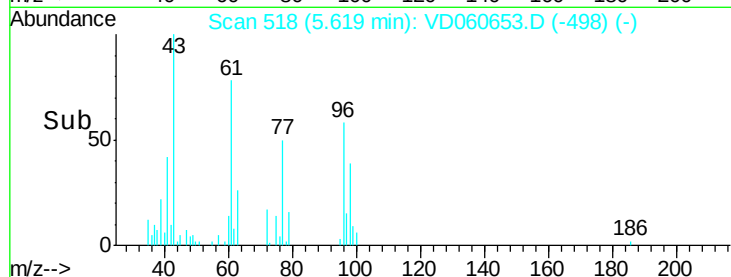
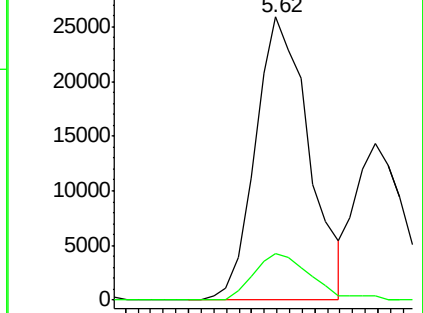
apatel

12/21/2018 11:32:21 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 4.435 ug/l

RT: 5.60 min Scan# 516

Delta R.T. 0.01 min

Lab File: VD060653.D

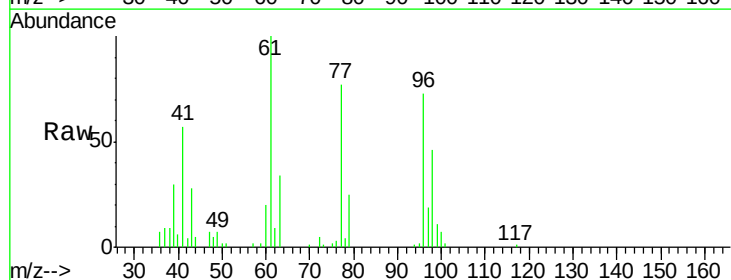
Acq: 20 Dec 2018 10:58

Tgt Ion: 77 Resp: 102367

Ion Ratio Lower Upper

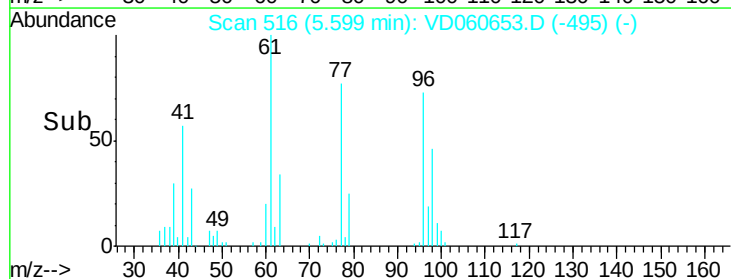
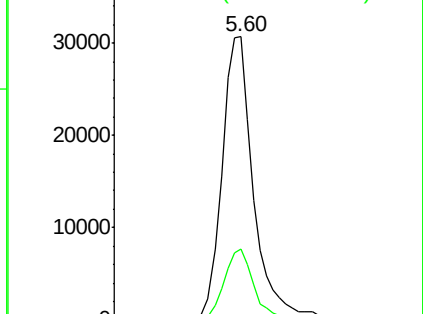
77 100

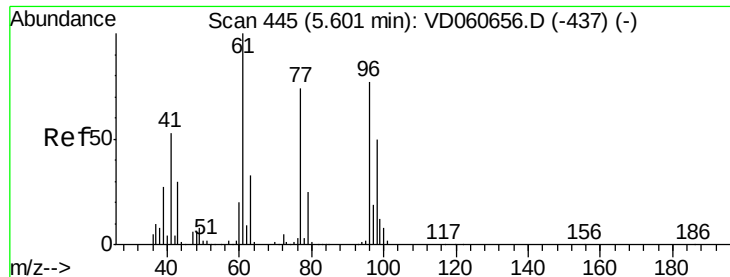
97 24.9 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

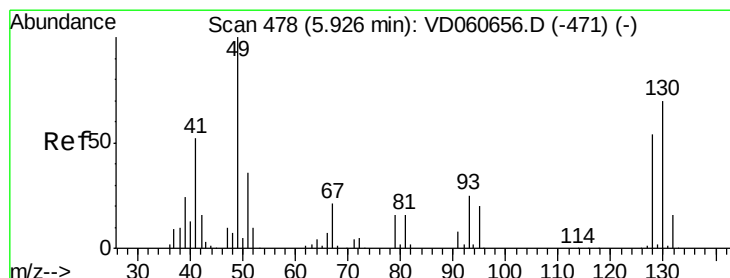
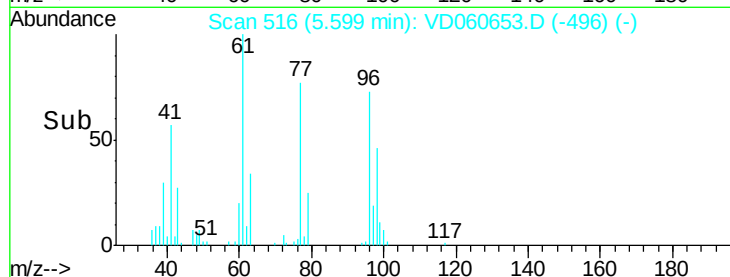
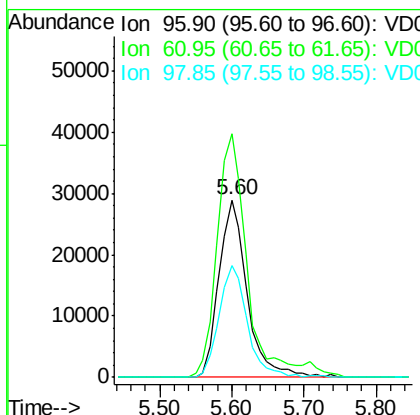
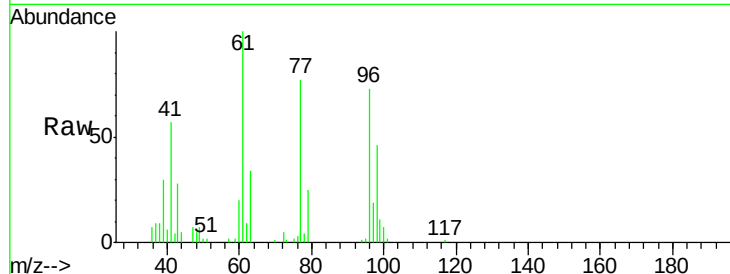
cis-1,2-Dichloroethene
Concen: 4.230 ug/l
RT: 5.60 min Scan# 516
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.5	0.0	259.4
98	63.0	0.0	130.0

Manual Integrations
APPROVED

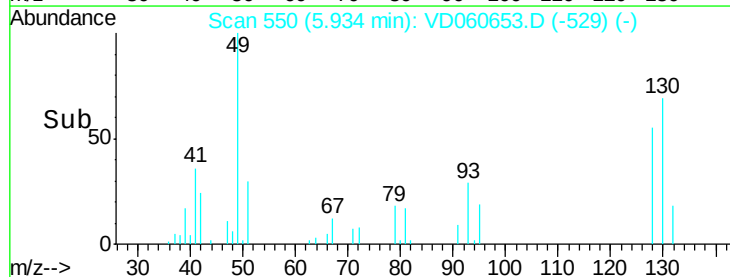
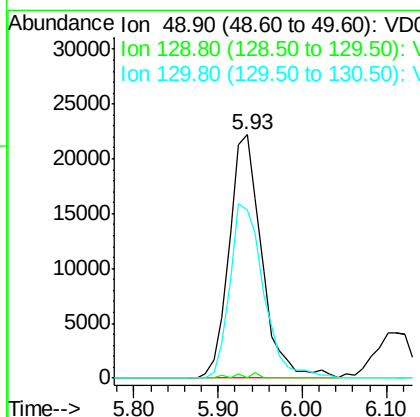
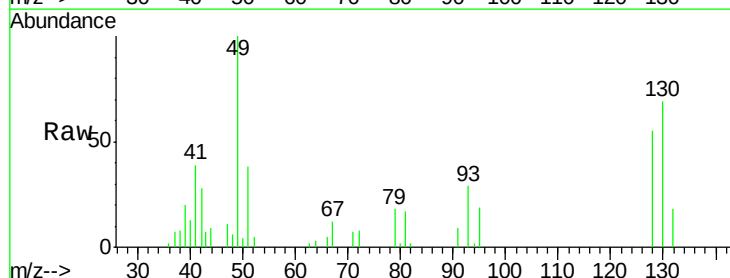
apatel
12/21/2018 11:32:21 AM

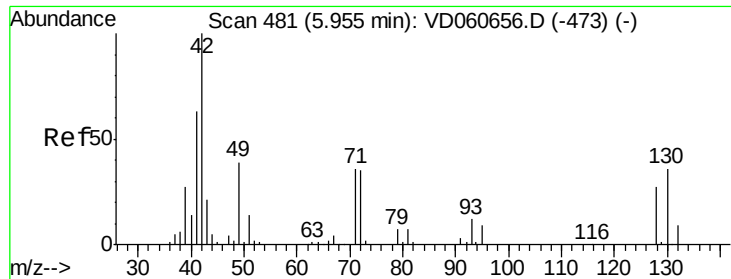


#28

Bromochloromethane
Concen: 4.952 ug/l
RT: 5.93 min Scan# 550
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	69.2	56.2	84.2





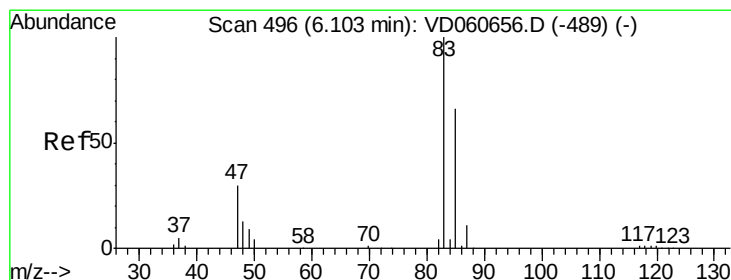
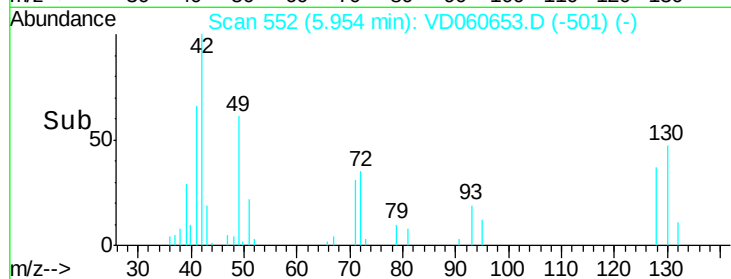
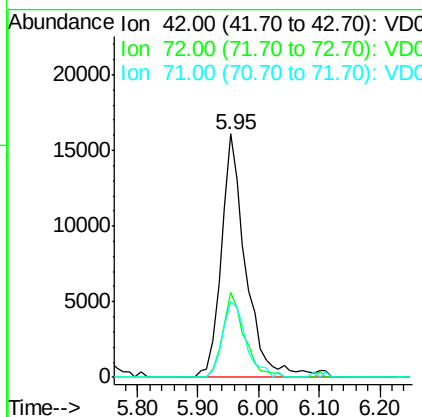
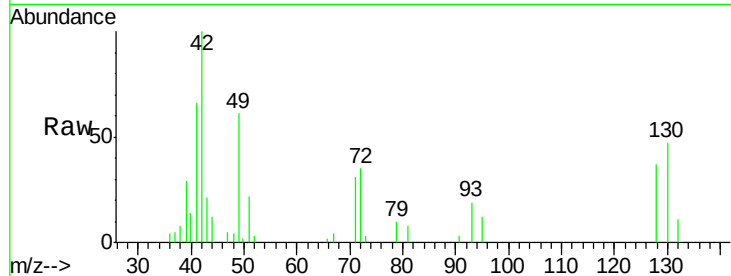
#29
Tetrahydrofuran
Concen: 21.410 ug/l
RT: 5.95 min Scan# 552
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 42 Resp: 45188
Ion Ratio Lower Upper
42 100
72 30.8 28.0 42.0
71 29.6 27.0 40.6

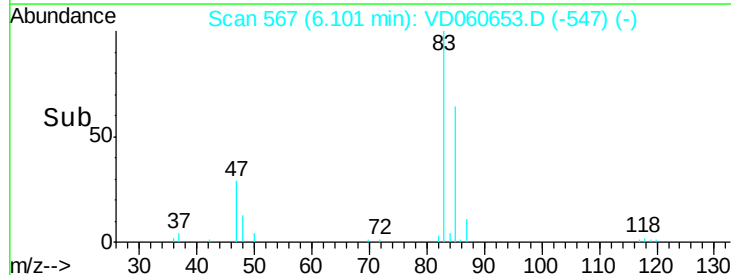
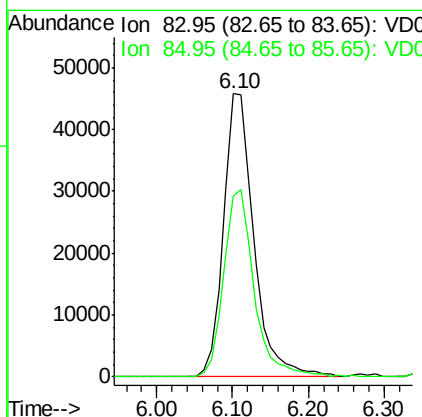
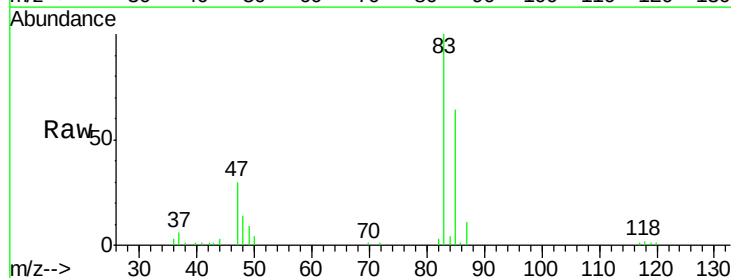
Manual Integrations
APPROVED

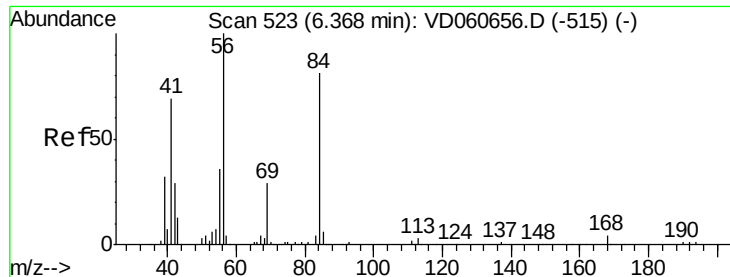
apatel
12/21/2018 11:32:21 AM



#30
Chloroform
Concen: 4.340 ug/l
RT: 6.10 min Scan# 567
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 83 Resp: 127028
Ion Ratio Lower Upper
83 100
85 63.9 53.0 79.6





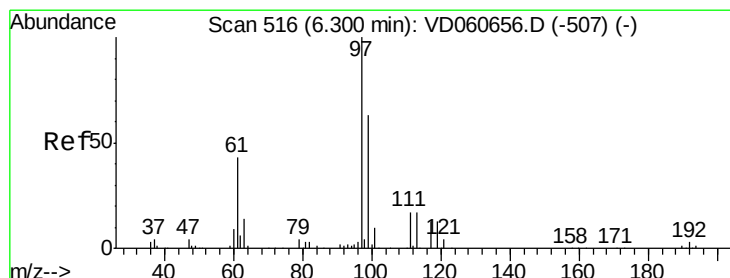
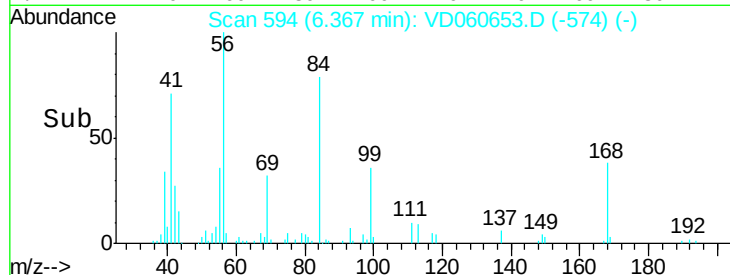
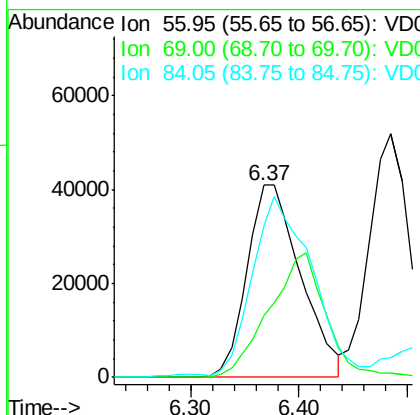
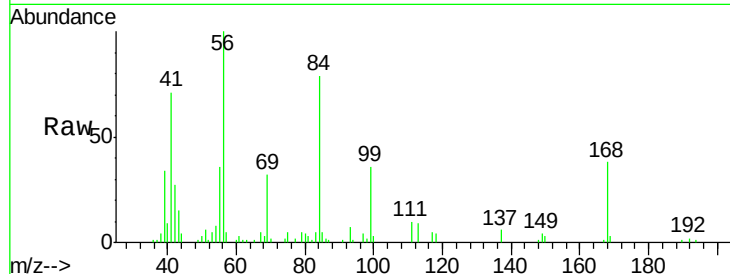
#31
Cyclohexane
Concen: 5.053 ug/l
RT: 6.37 min Scan# 594
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.0	23.6	35.4
84	79.0	65.8	98.6

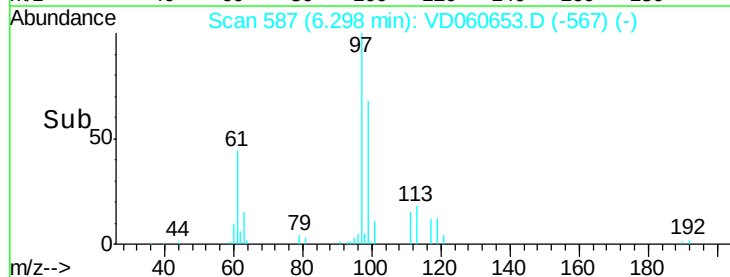
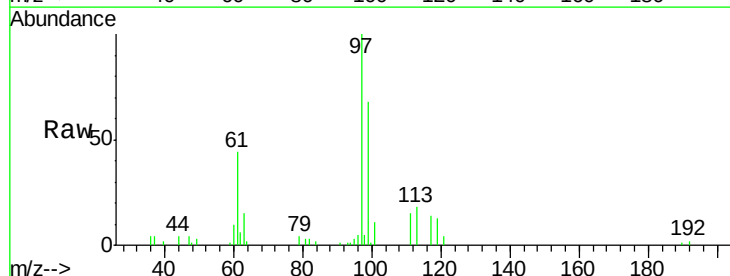
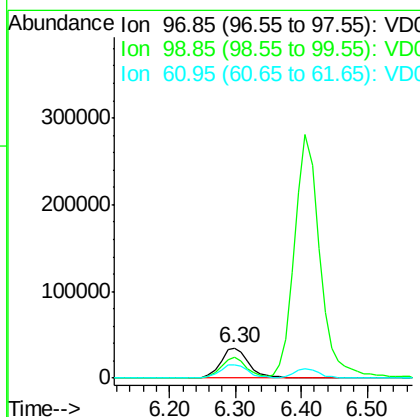
Manual Integrations
APPROVED

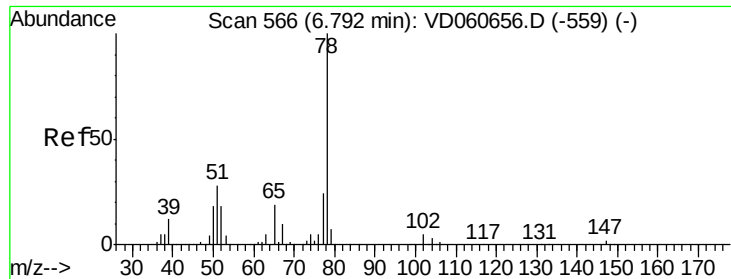
apatel
12/21/2018 11:32:21 AM



#32
1,1,1-Trichloroethane
Concen: 4.284 ug/l
RT: 6.30 min Scan# 587
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.7	50.5	75.7
61	43.8	34.6	51.8





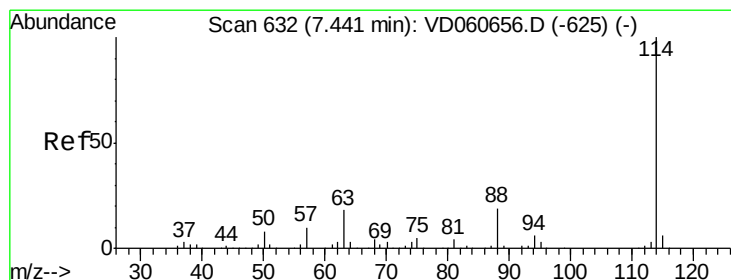
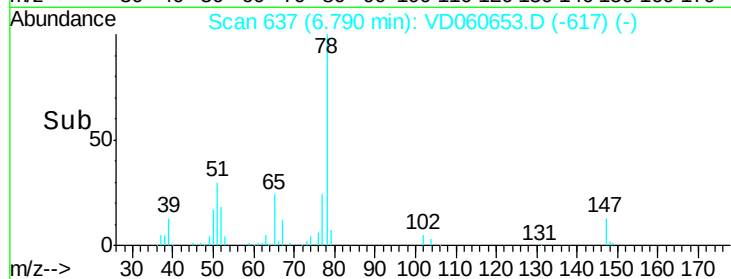
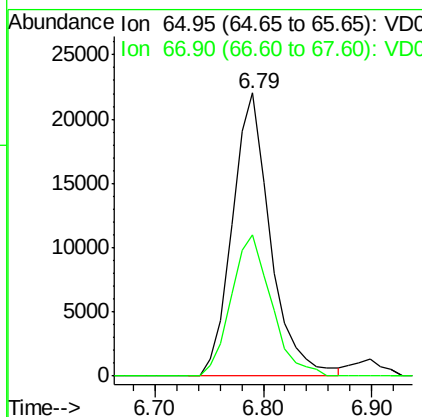
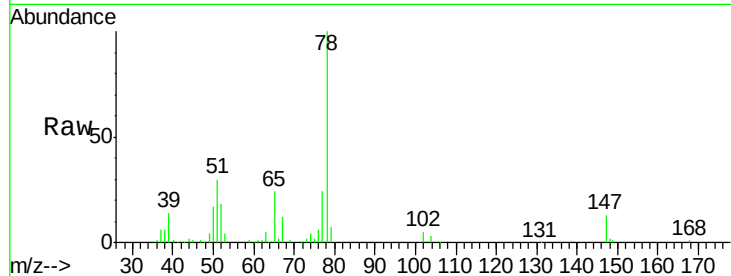
#33
 1,2-Dichloroethane-d4
 Concen: 4.284 ug/l
 RT: 6.79 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion: 65 Resp: 53921
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 105.4

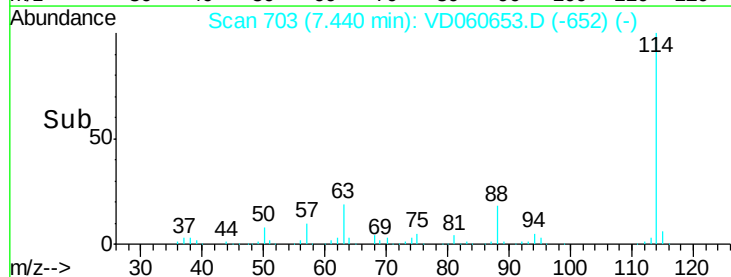
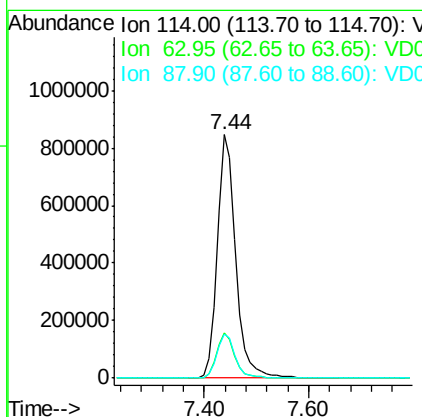
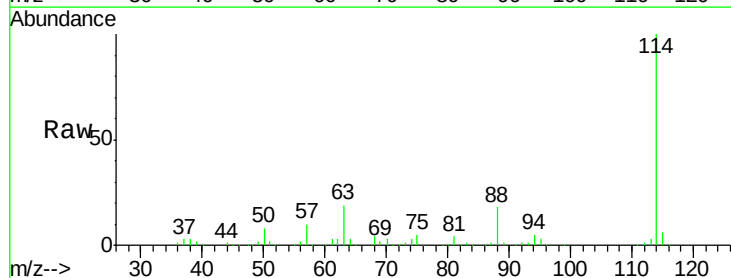
Manual Integrations
 APPROVED

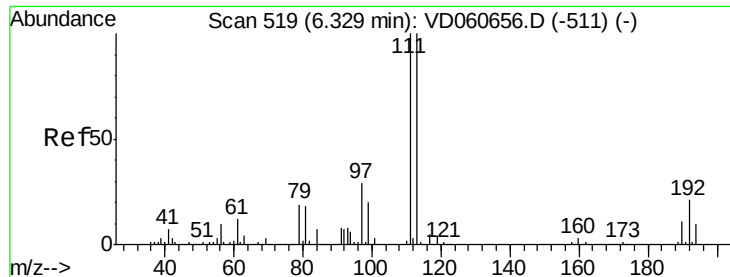
apatel
 12/21/2018 11:32:21 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 703
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 114 Resp: 2072609
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.2
 88 18.1 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 590

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

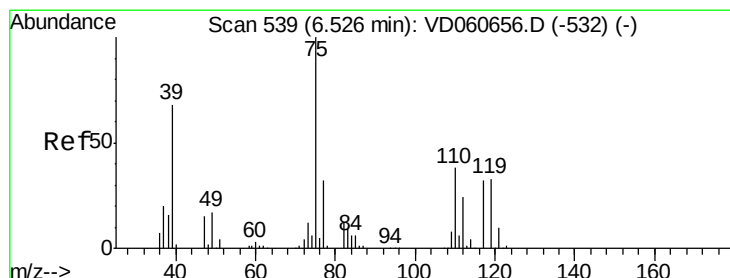
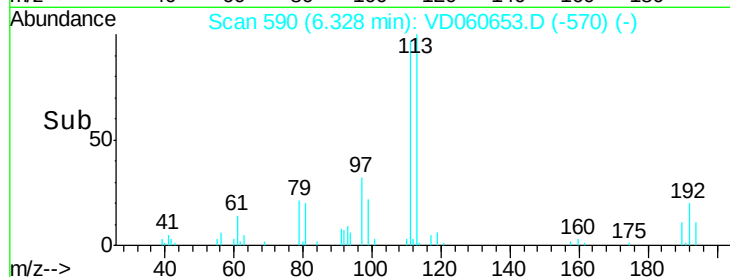
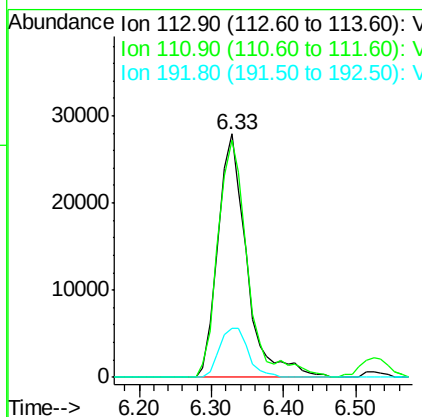
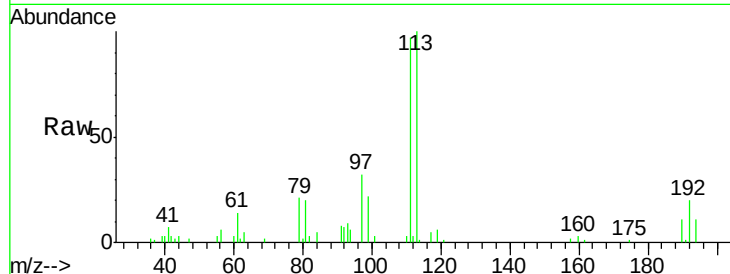
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	77248
Ion Ratio	Lower	Upper	
113	100		
111	97.2	80.0	120.0
192	20.3	16.6	25.0

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#36

1,1-Dichloropropene

Concen: 4.802 ug/l

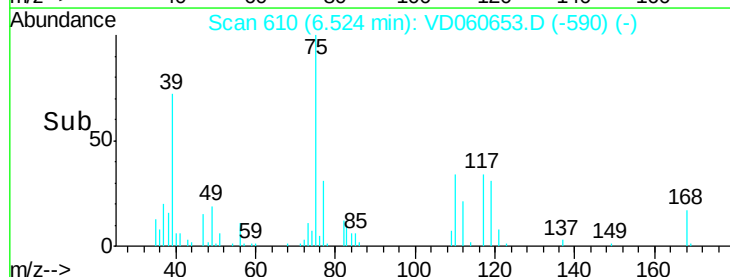
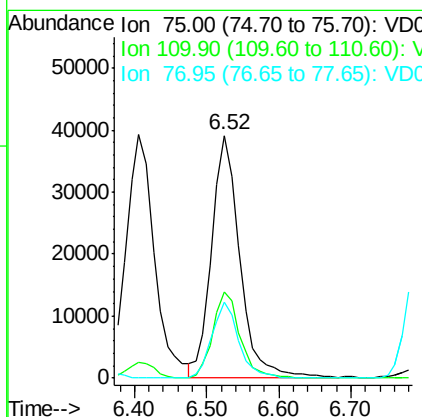
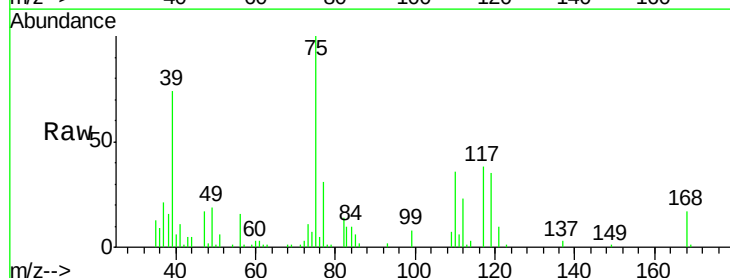
RT: 6.52 min Scan# 610

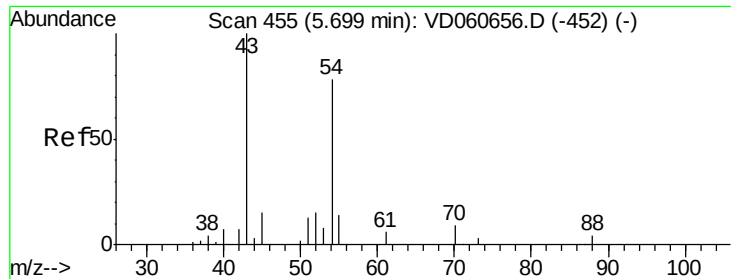
Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	75	Resp:	106254
Ion Ratio	Lower	Upper	
75	100		
110	35.7	18.9	56.7
77	31.4	25.4	38.0





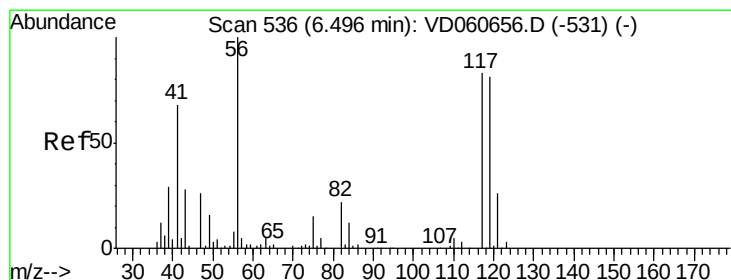
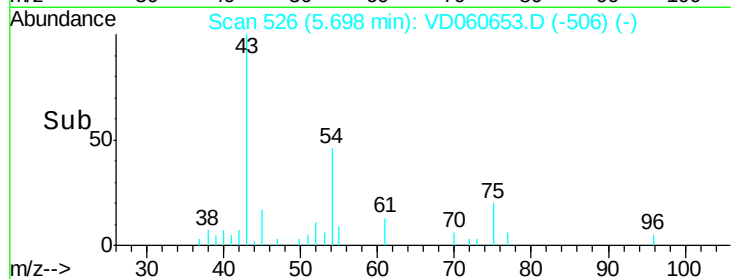
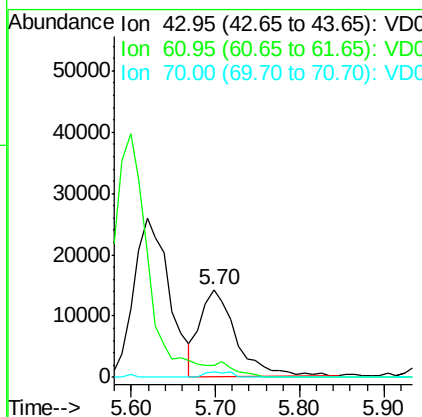
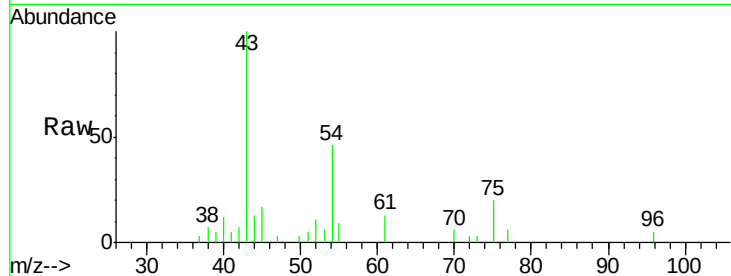
#37
Ethyl Acetate
 Concen: 4.503 ug/l
 RT: 5.70 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion: 43 Resp: 41123
 Ion Ratio Lower Upper
 43 100
 61 13.4 11.8 17.6
 70 6.1 5.8 8.6

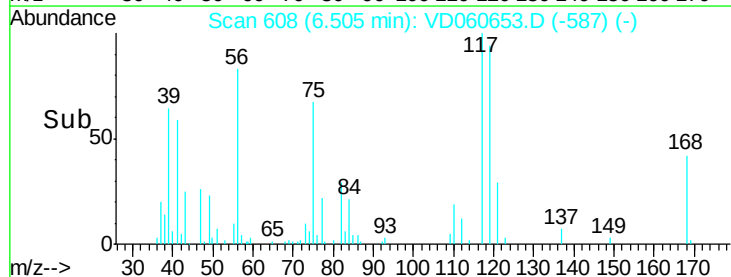
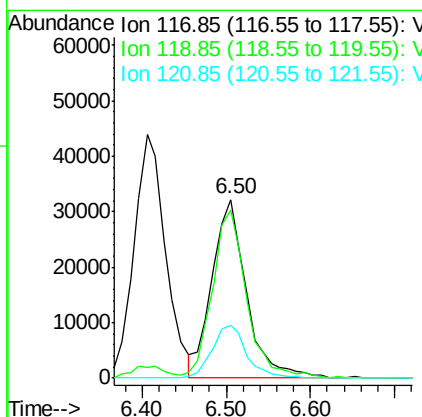
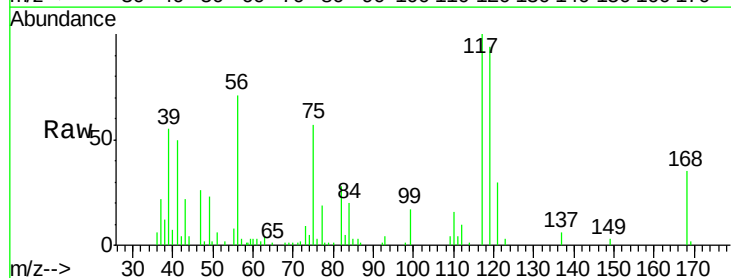
Manual Integrations
 APPROVED

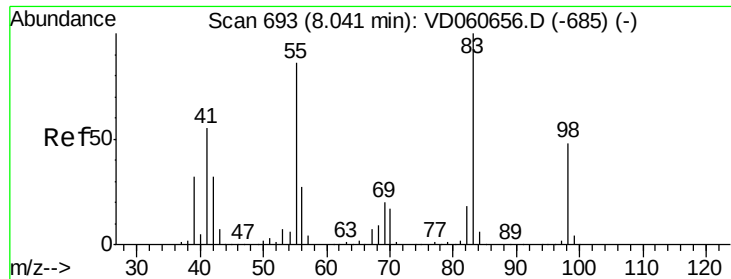
apatel
 12/21/2018 11:32:21 AM



#38
Carbon Tetrachloride
 Concen: 4.585 ug/l
 RT: 6.50 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 117 Resp: 91528
 Ion Ratio Lower Upper
 117 100
 119 94.3 77.0 115.4
 121 29.6 24.7 37.1





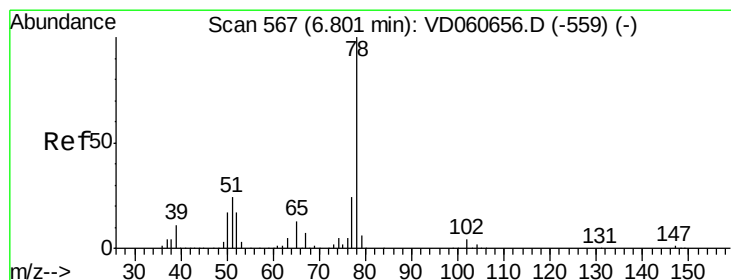
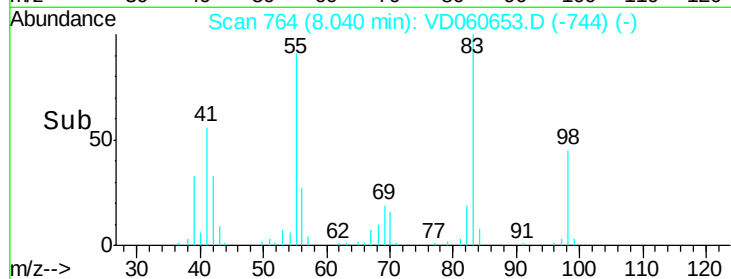
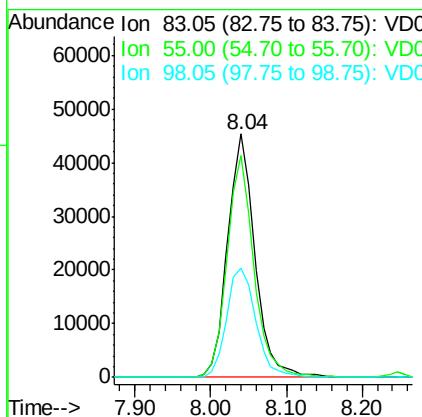
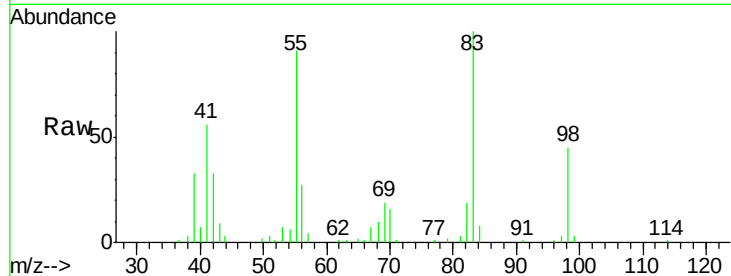
#39
Methylcyclohexane
Concen: 4.348 ug/l
RT: 8.04 min Scan# 764
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	112839		
55	91.0	68.6	102.8	
98	44.8	38.1	57.1	

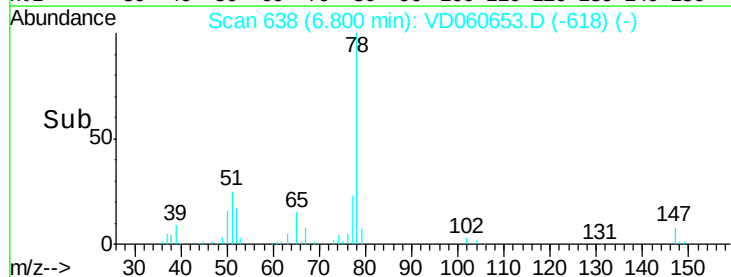
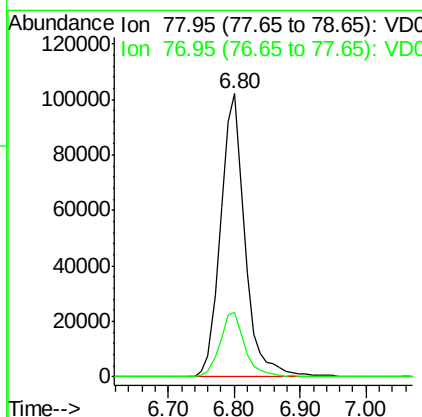
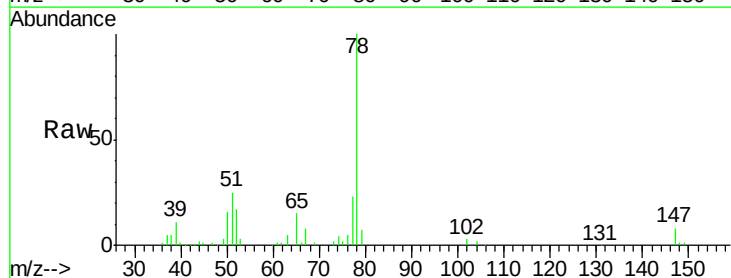
Manual Integrations
APPROVED

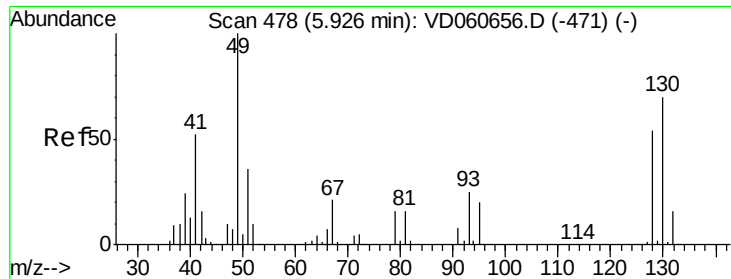
apatel
12/21/2018 11:32:21 AM



#40
Benzene
Concen: 4.608 ug/l
RT: 6.80 min Scan# 638
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	264532		
77	22.7	19.2	28.8	





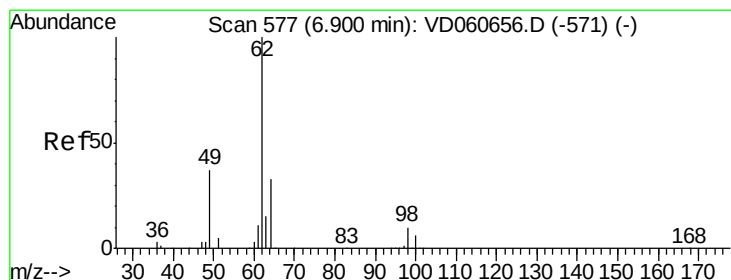
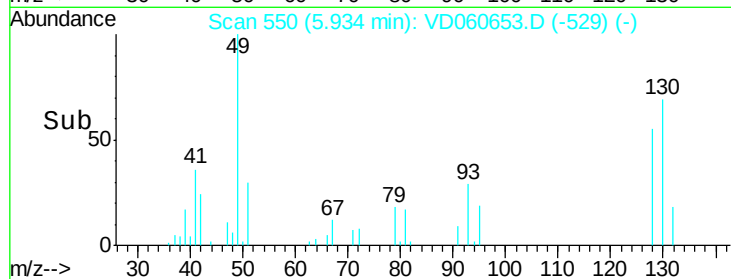
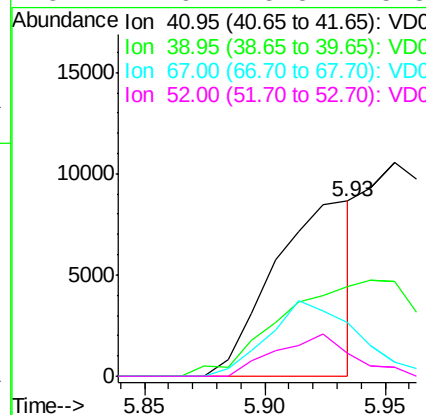
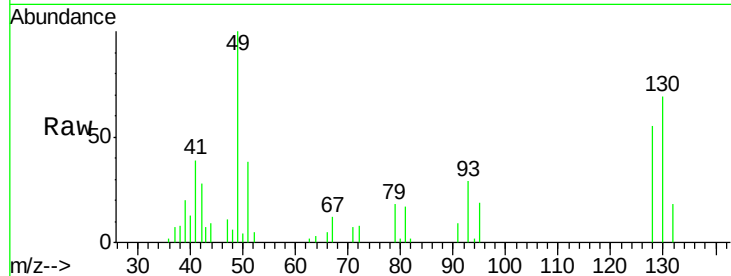
#41
Methacrylonitrile
Concen: 3.698 ug/l m
RT: 5.93 min Scan# 550
Delta R.T. 0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
41	100		
39	51.6	37.6	56.4
67	30.9	33.0	49.6
52	12.9	15.5	23.3

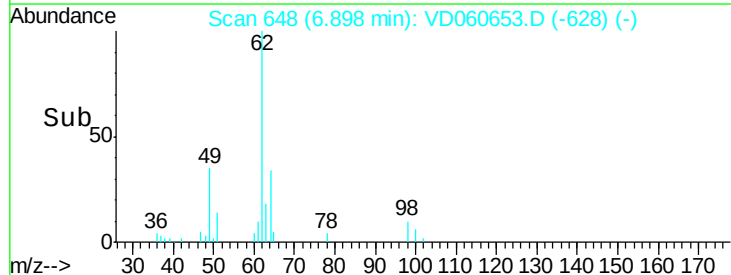
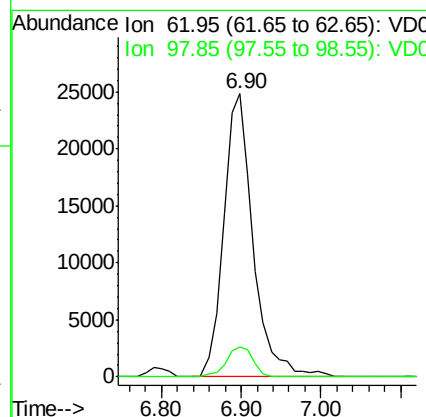
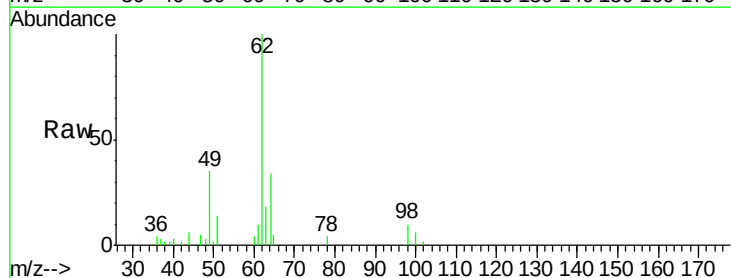
Manual Integrations
APPROVED

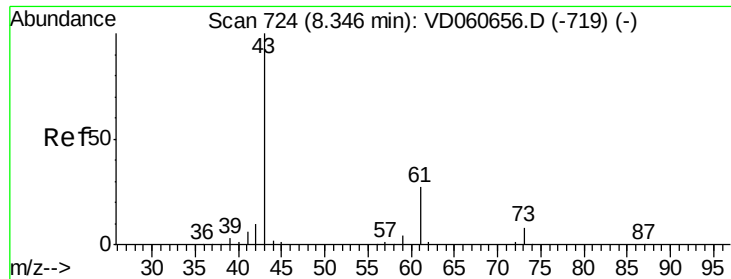
apatel
12/21/2018 11:32:21 AM



#42
1,2-Dichloroethane
Concen: 4.496 ug/l
RT: 6.90 min Scan# 648
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.4





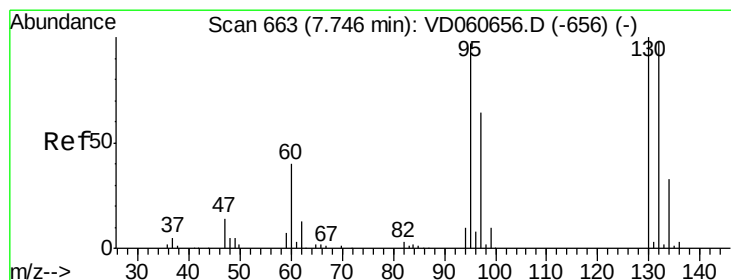
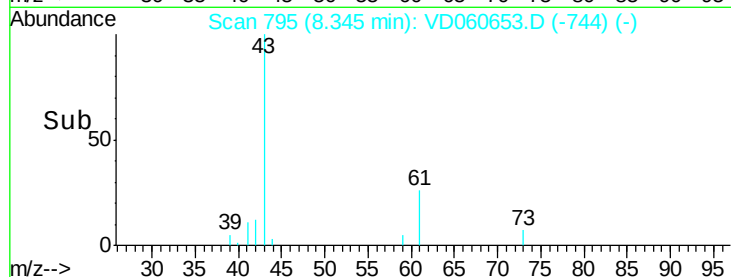
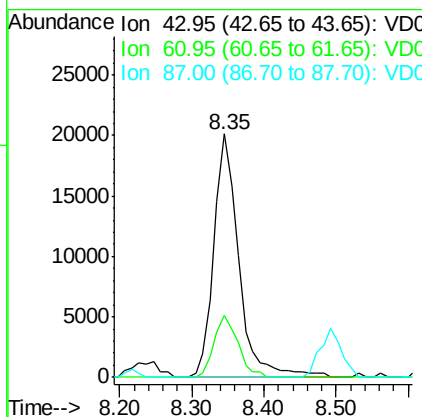
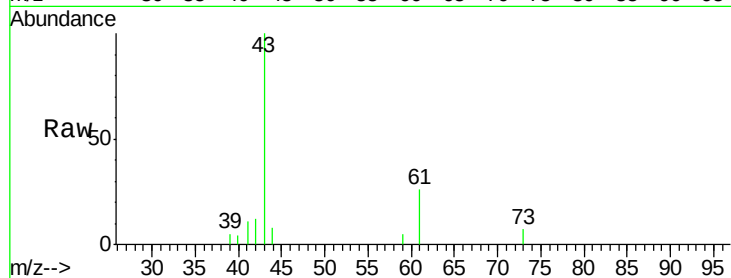
#43
Isopropyl Acetate
Concen: 3.886 ug/l
RT: 8.35 min Scan# 795
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
43	100		
61	25.6	21.8	32.8
87	0.0	0.2	0.4

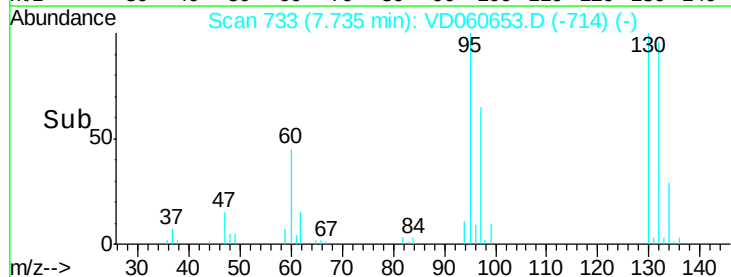
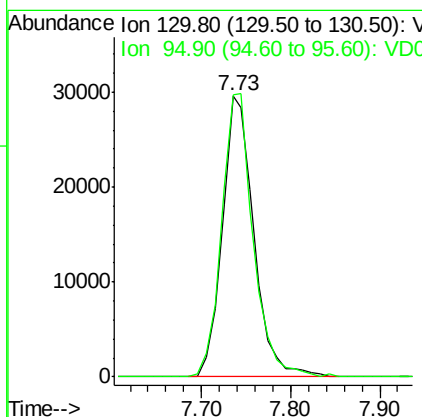
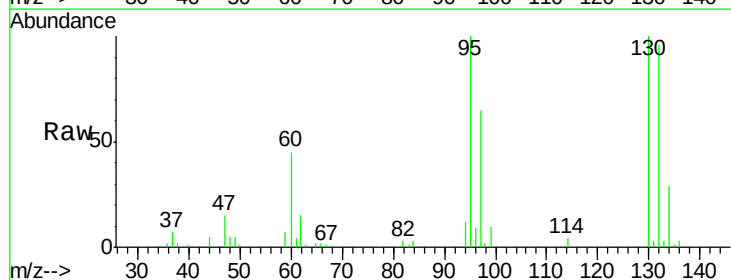
Manual Integrations
APPROVED

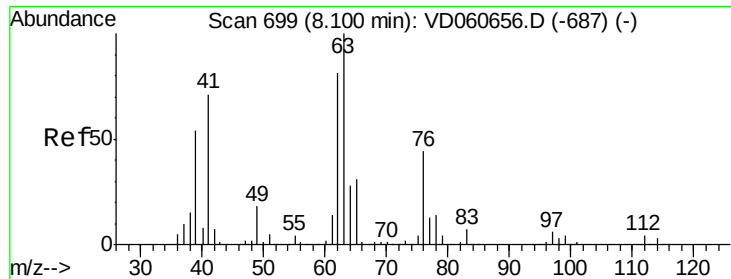
apatel
12/21/2018 11:32:21 AM



#44
Trichloroethene
Concen: 4.262 ug/l
RT: 7.73 min Scan# 733
Delta R.T. -0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	193.6





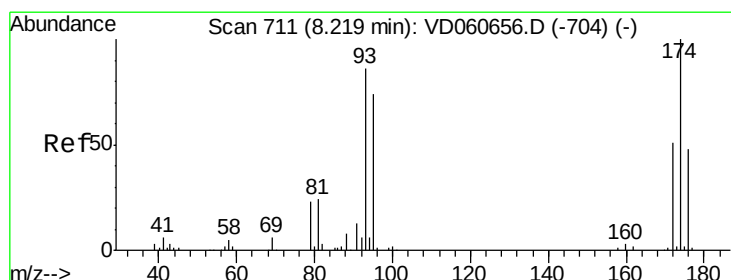
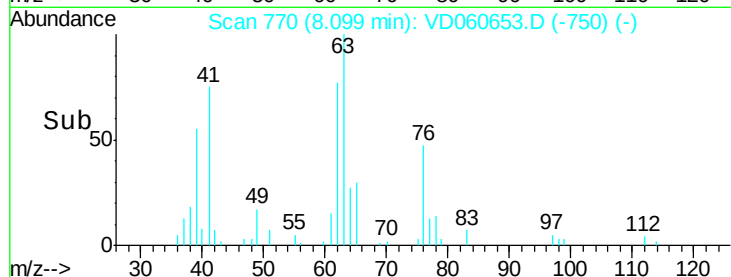
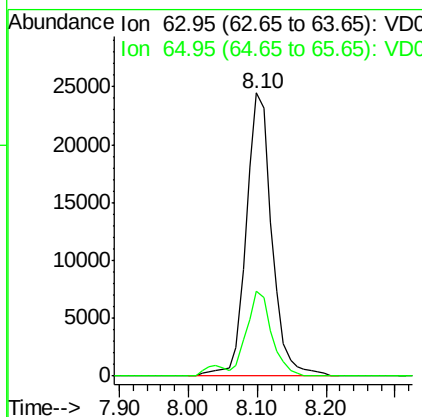
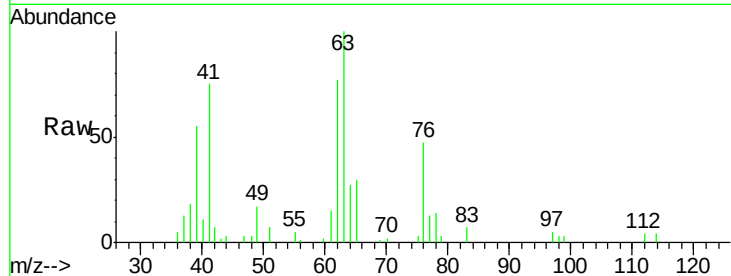
#45
 1,2-Dichloropropane
 Concen: 4.543 ug/l
 RT: 8.10 min Scan# 770
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion: 63 Resp: 63343
 Ion Ratio Lower Upper
 63 100
 65 30.2 25.0 37.6

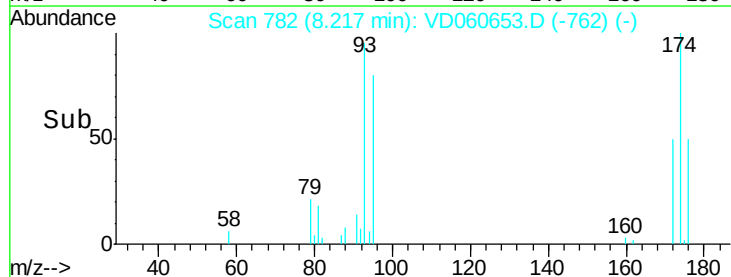
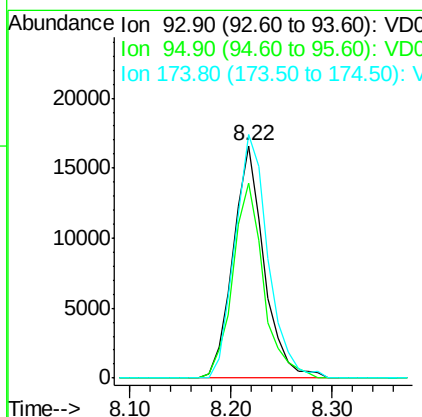
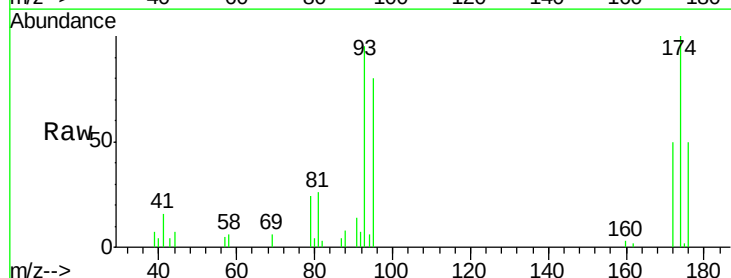
Manual Integrations
 APPROVED

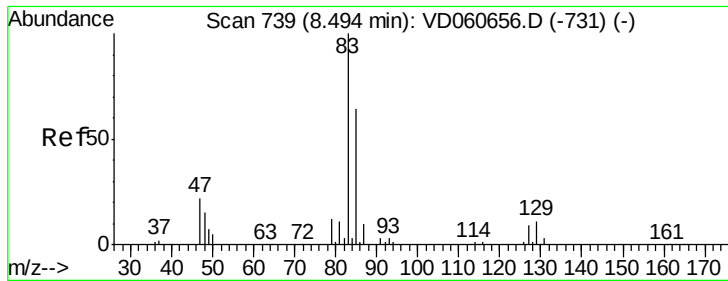
apatel
 12/21/2018 11:32:21 AM



#46
 Dibromomethane
 Concen: 4.374 ug/l
 RT: 8.22 min Scan# 782
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 93 Resp: 35371
 Ion Ratio Lower Upper
 93 100
 95 83.9 68.8 103.2
 174 104.7 93.0 139.4





#47

Bromodichloromethane

Concen: 4.309 ug/l

RT: 8.49 min Scan# 810

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

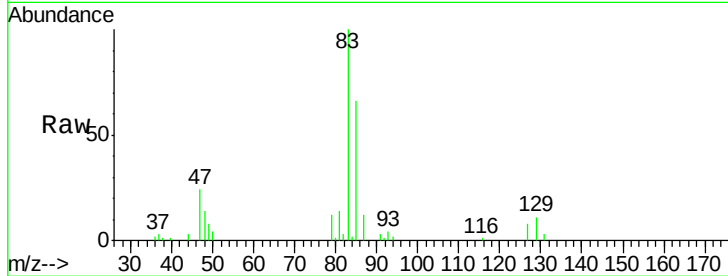
ClientSampleId :

VSTDIC005

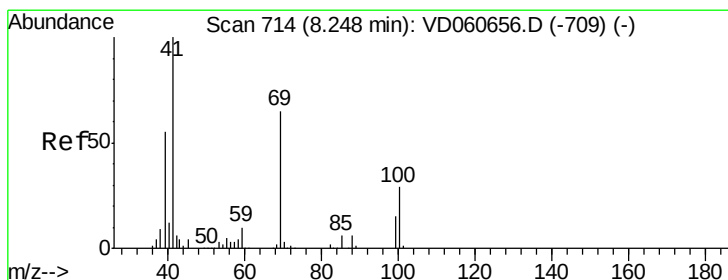
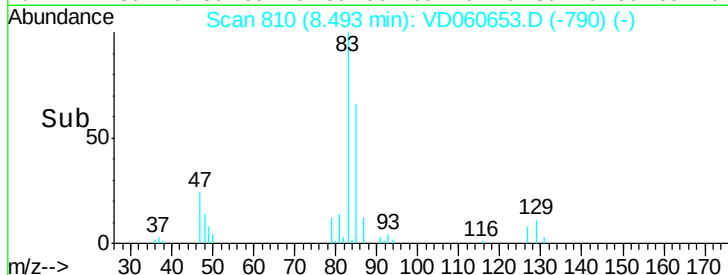
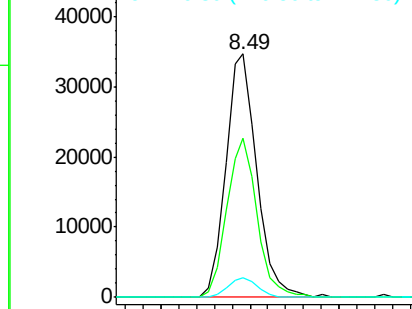
Tgt Ion:	83	Resp:	84252
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.1	7.0	10.6

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 3.845 ug/l

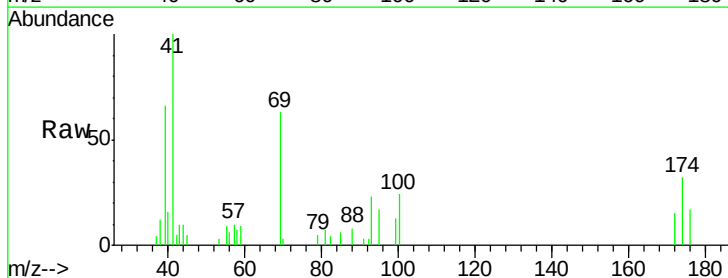
RT: 8.25 min Scan# 785

Delta R.T. -0.00 min

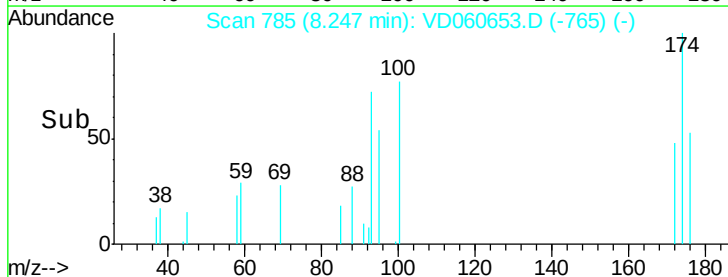
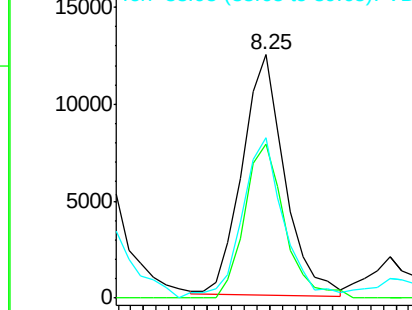
Lab File: VD060653.D

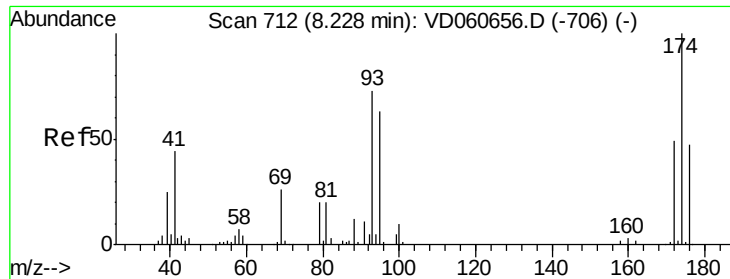
Acq: 20 Dec 2018 10:58

Tgt Ion:	41	Resp:	29028
Ion	Ratio	Lower	Upper
41	100		
69	63.3	51.2	76.8
39	65.7	44.6	67.0



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





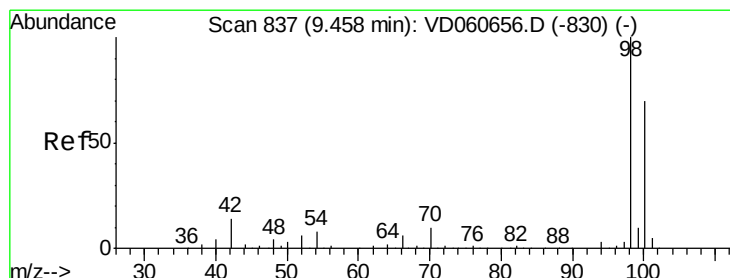
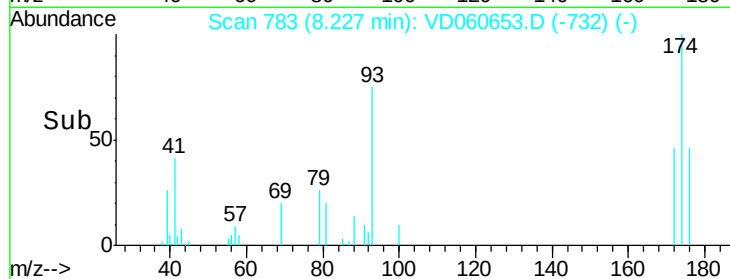
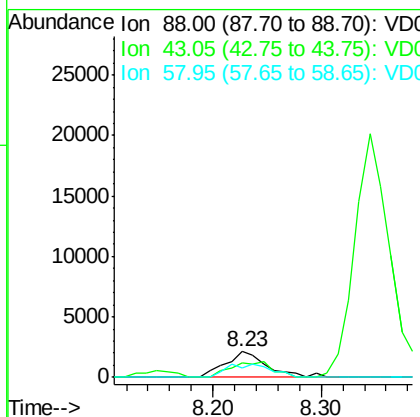
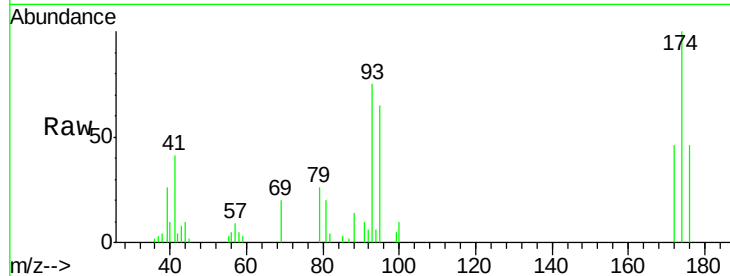
#49
1,4-Dioxane
Concen: 80.147 ug/l
RT: 8.23 min Scan# 783
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	5666		
43	55.5	31.5	47.3#	
58	35.3	50.6	76.0#	

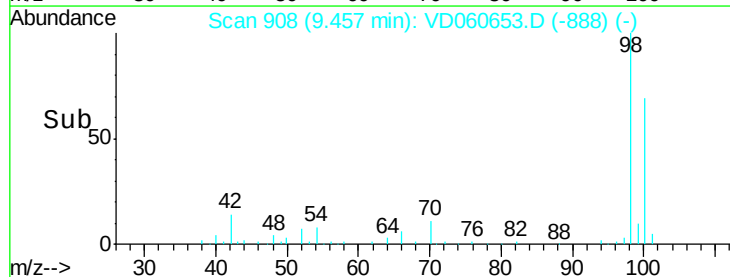
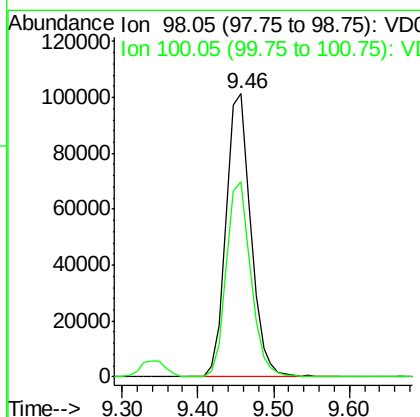
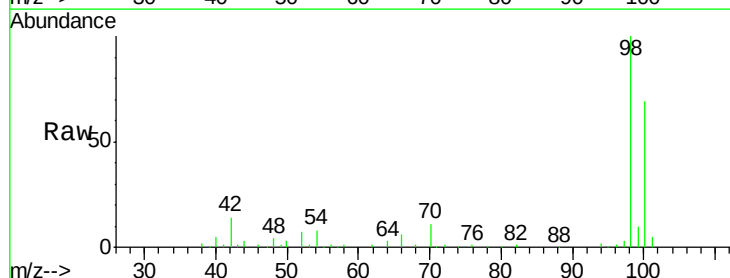
Manual Integrations
APPROVED

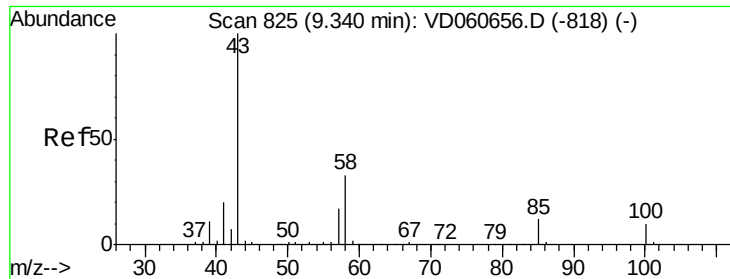
apatel
12/21/2018 11:32:21 AM



#50
Toluene-d8
Concen: 80.147 ug/l
RT: 9.46 min Scan# 908
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	229325		
100	68.8	55.8	83.8	





#51

4-Methyl-2-Pentanone

Concen: 20.273 ug/l

RT: 9.34 min Scan# 896

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 154223

Ion Ratio Lower Upper

43 100

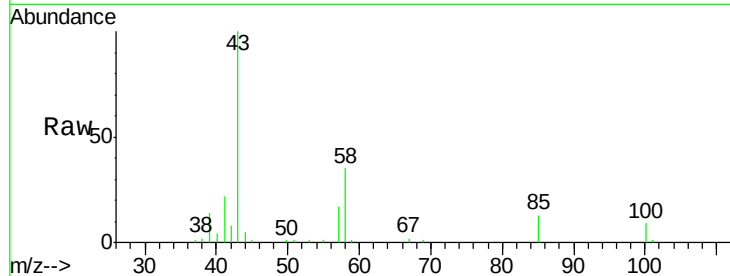
58 35.4 26.3 39.5

Manual Integrations

APPROVED

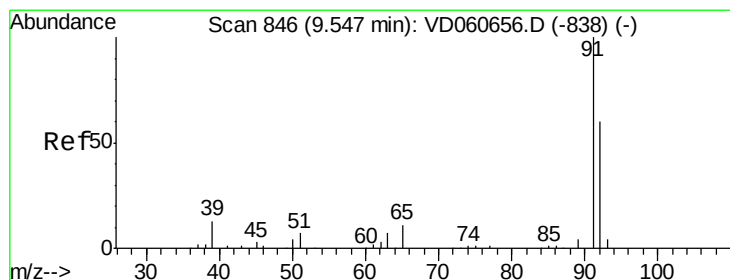
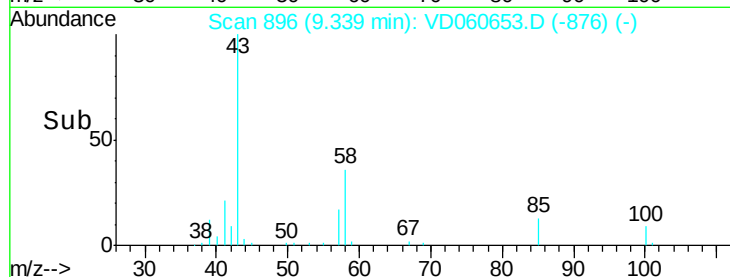
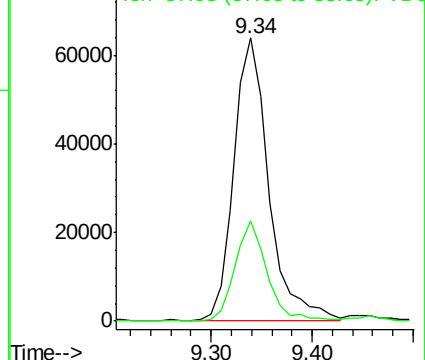
apatel

12/21/2018 11:32:21 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 4.462 ug/l

RT: 9.55 min Scan# 917

Delta R.T. -0.00 min

Lab File: VD060653.D

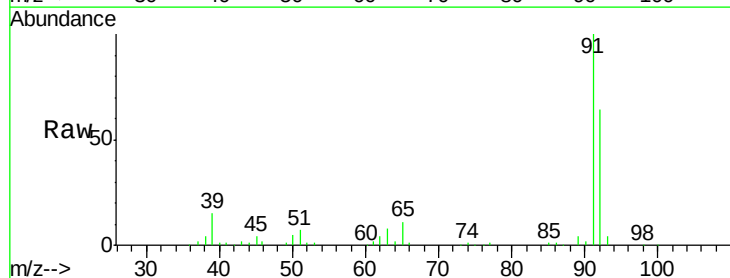
Acq: 20 Dec 2018 10:58

Tgt Ion: 92 Resp: 162687

Ion Ratio Lower Upper

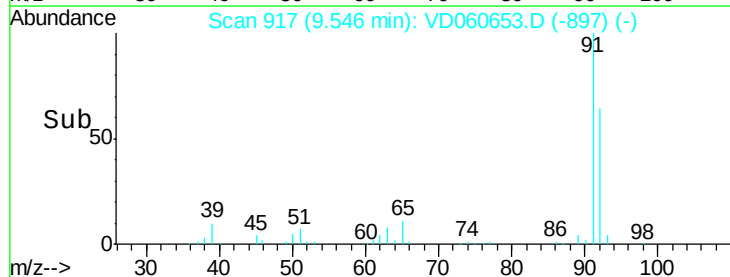
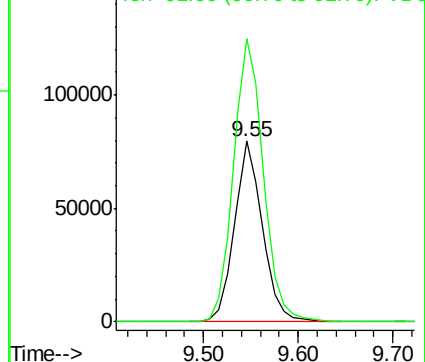
92 100

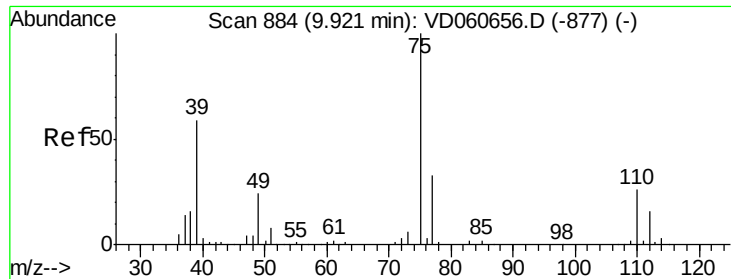
91 156.7 132.6 199.0



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: 3.793 ug/l

RT: 9.91 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 62970

Ion Ratio Lower Upper

75 100

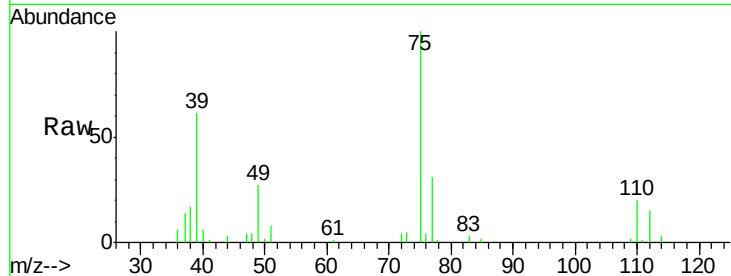
77 30.5 26.0 39.0

Manual Integrations

APPROVED

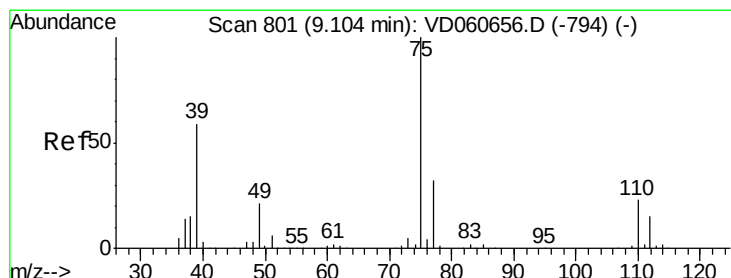
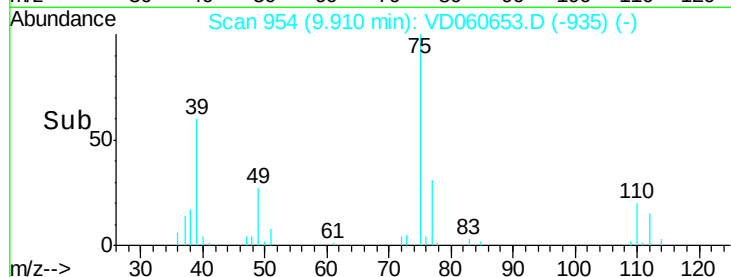
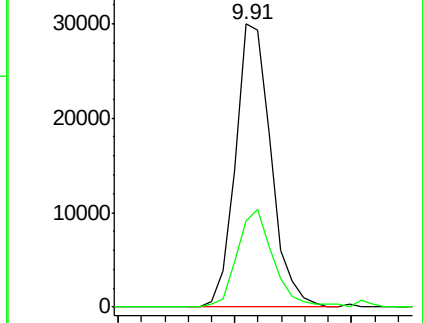
apatel

12/21/2018 11:32:21 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 4.143 ug/l

RT: 9.10 min Scan# 872

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

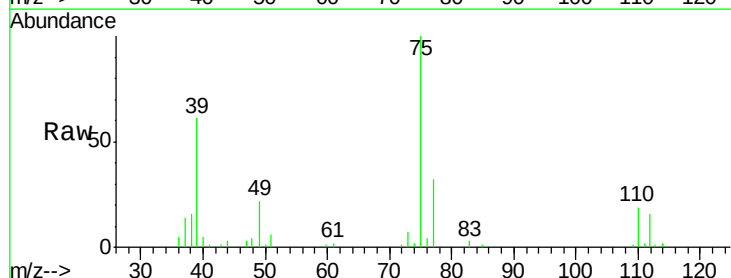
Tgt Ion: 75 Resp: 89907

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2

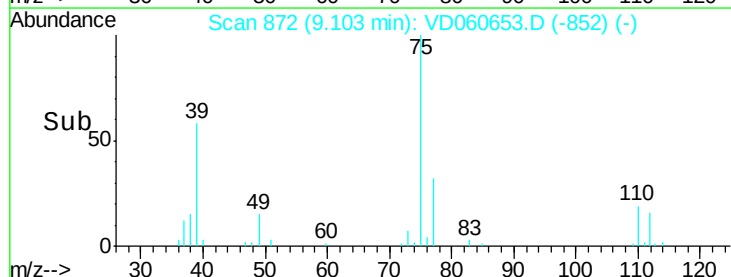
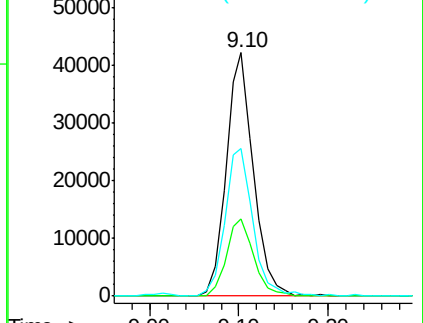
39 60.5 47.0 70.4

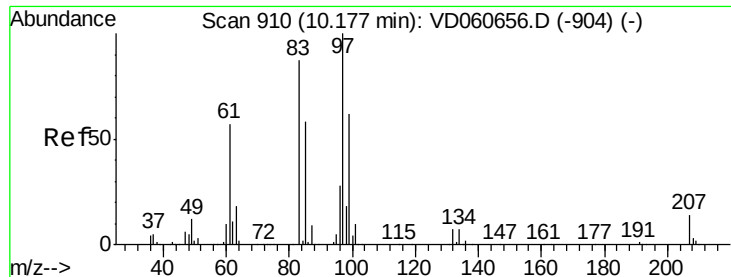


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 4.443 ug/l

RT: 10.18 min Scan# 981

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

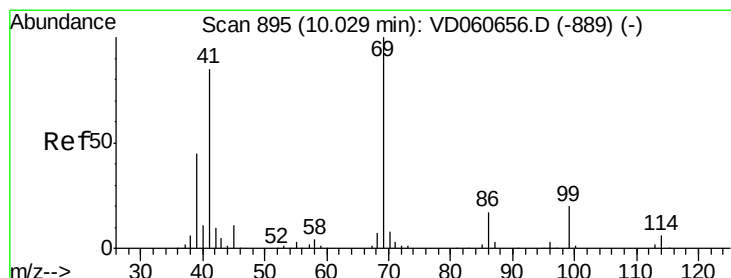
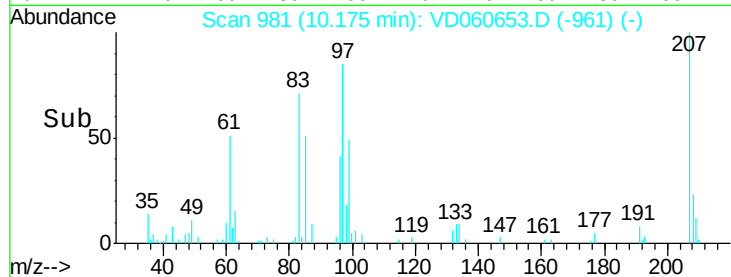
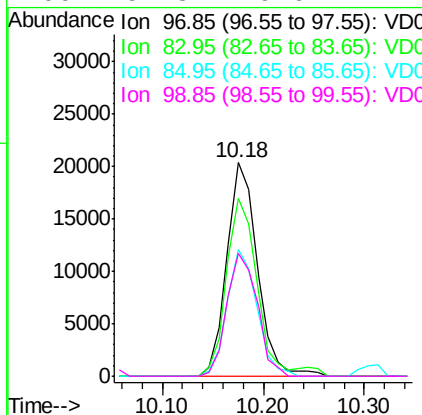
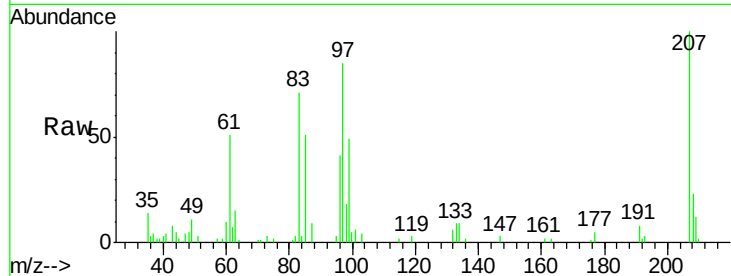
ClientSampleId :

VSTDIC005

Tgt Ion:	97	Resp:	42963
Ion	Ratio	Lower	Upper
97	100		
83	83.4	70.0	105.0
85	59.6	46.6	70.0
99	57.3	49.6	74.4

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#56

Ethyl methacrylate

Concen: 3.155 ug/l

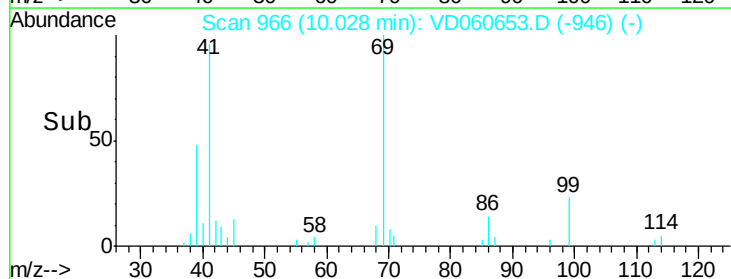
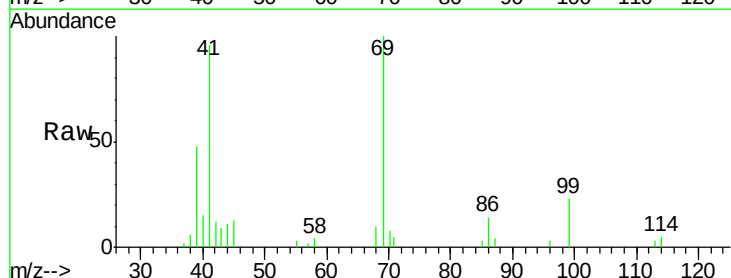
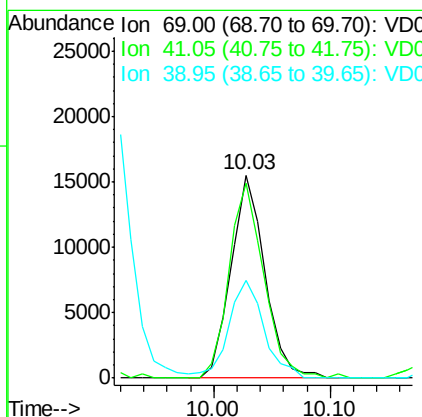
RT: 10.03 min Scan# 966

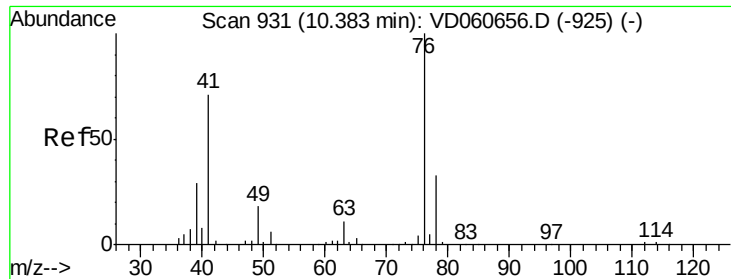
Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	69	Resp:	31206
Ion	Ratio	Lower	Upper
69	100		
41	96.5	68.3	102.5
39	48.5	37.2	55.8





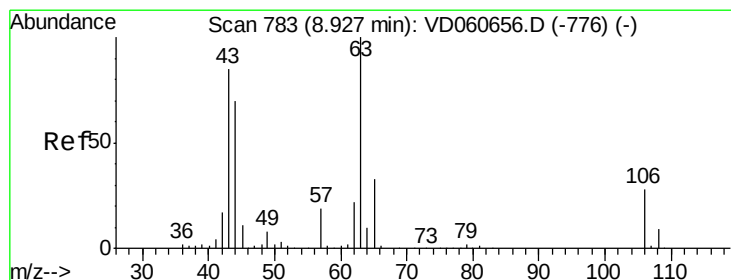
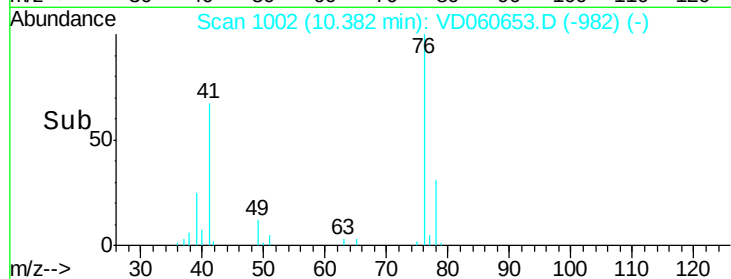
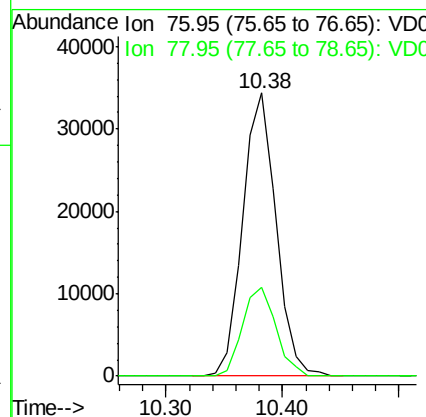
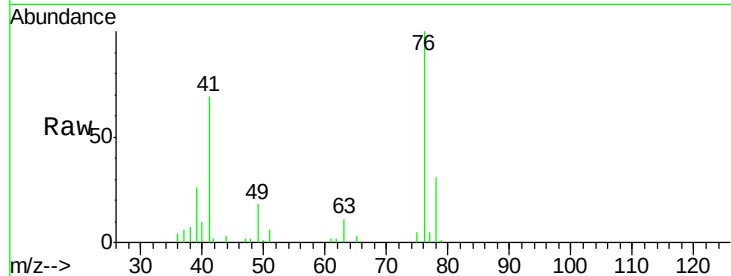
#57
 1,3-Dichloropropane
 Concen: 4.402 ug/l
 RT: 10.38 min Scan# 1002
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion: 76 Resp: 67885
 Ion Ratio Lower Upper
 76 100
 78 31.4 26.1 39.1

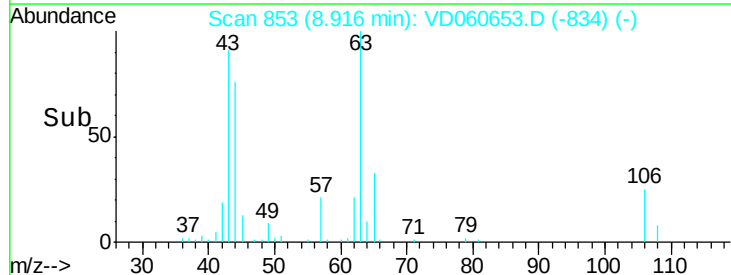
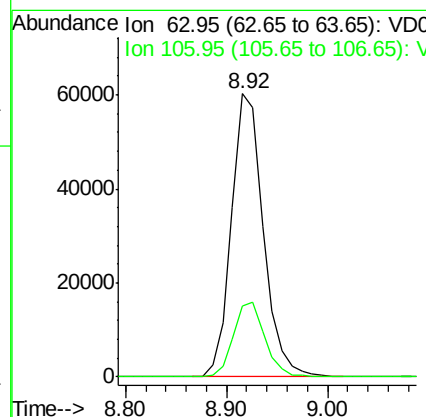
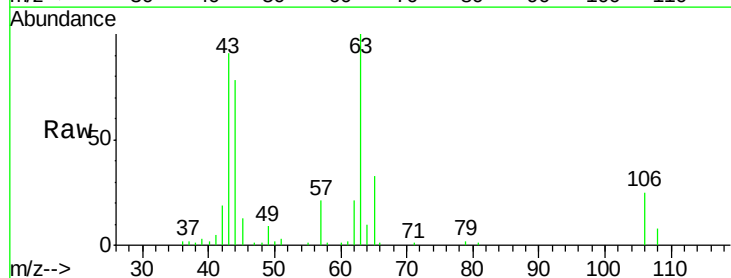
Manual Integrations
 APPROVED

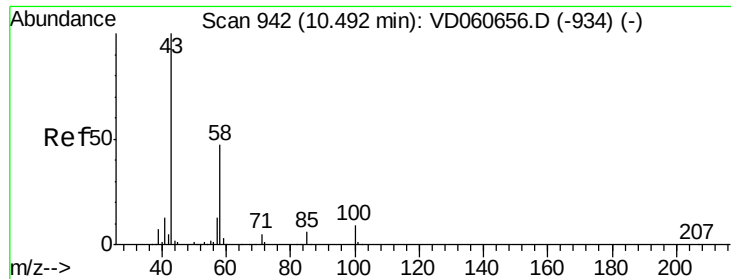
apatel
 12/21/2018 11:32:21 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 25.378 ug/l
 RT: 8.92 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 63 Resp: 132450
 Ion Ratio Lower Upper
 63 100
 106 24.9 22.4 33.6





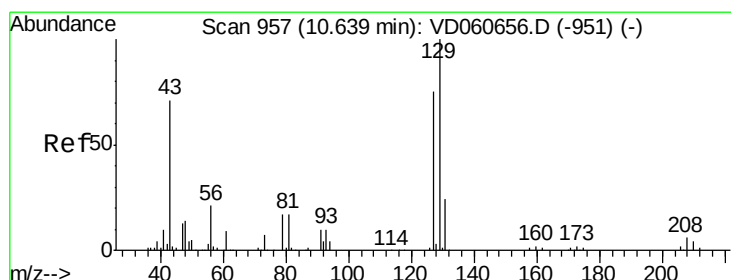
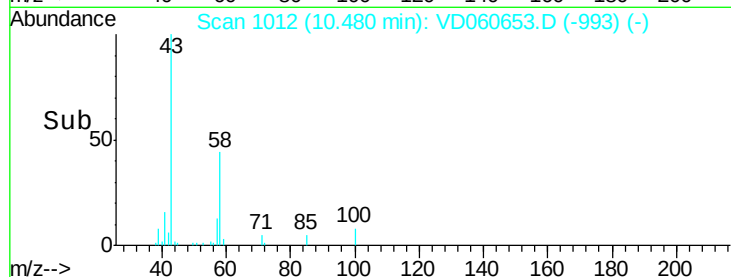
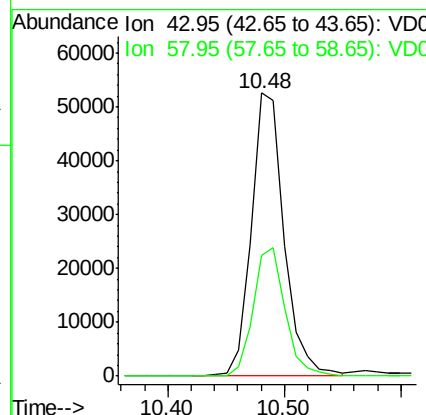
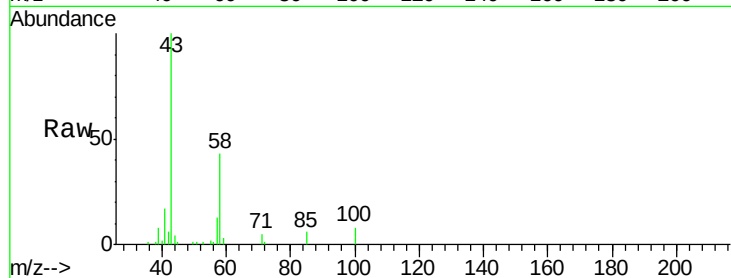
#59
2-Hexanone
Concen: 18.883 ug/l
RT: 10.48 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 102065
Ion Ratio Lower Upper
43 100
58 42.8 23.5 70.5

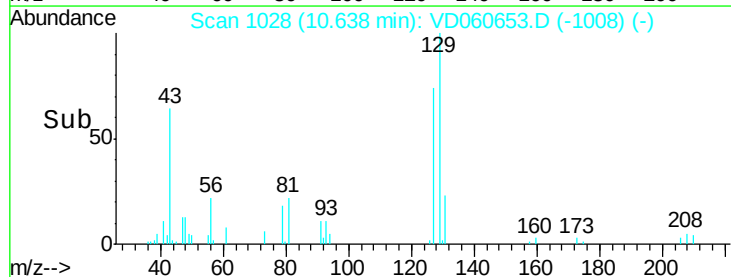
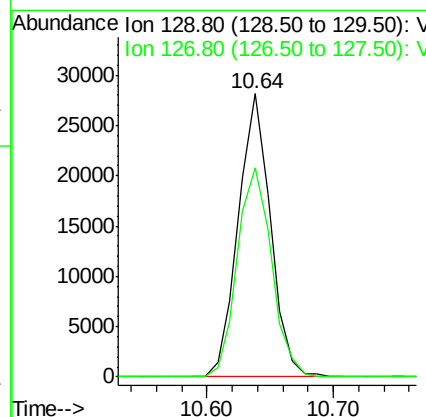
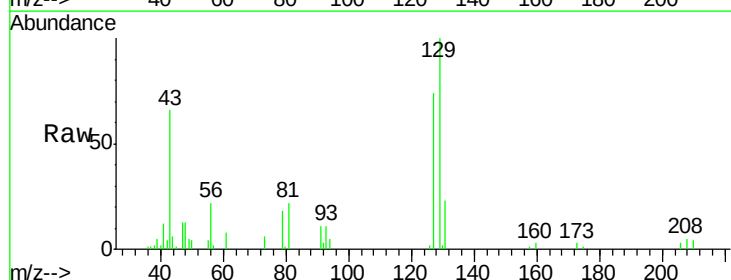
Manual Integrations
APPROVED

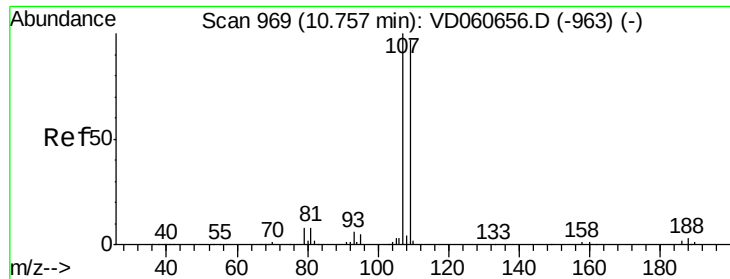
apatel
12/21/2018 11:32:21 AM



#60
Dibromochloromethane
Concen: 3.784 ug/l
RT: 10.64 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 129 Resp: 49609
Ion Ratio Lower Upper
129 100
127 73.9 37.6 112.9





#61

1,2-Dibromoethane

Concen: 3.974 ug/l

RT: 10.76 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 107 Resp: 41332

Ion Ratio Lower Upper

107 100

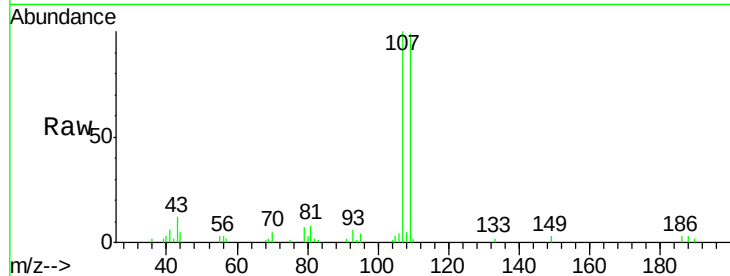
109 99.2 78.0 117.0

Manual Integrations

APPROVED

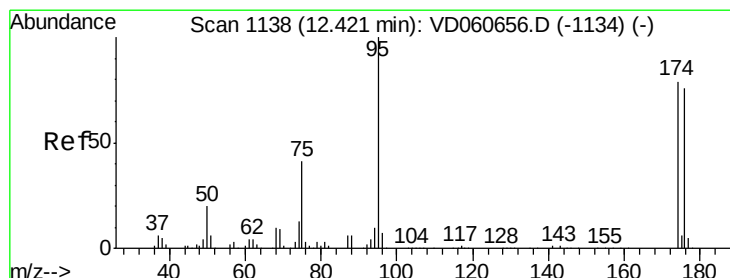
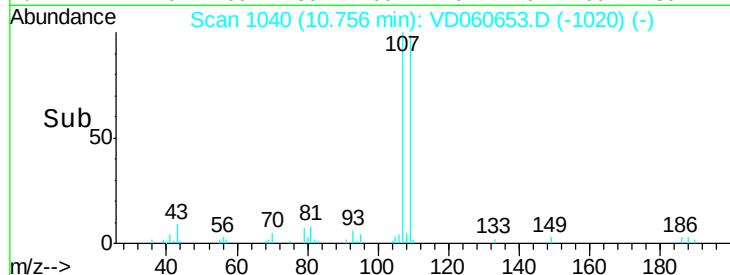
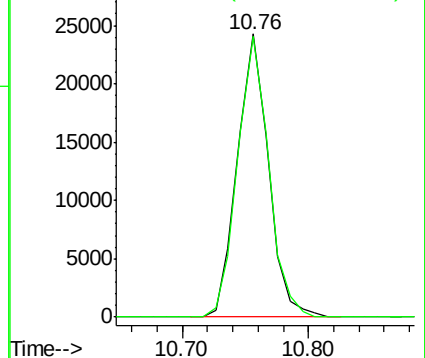
apatel

12/21/2018 11:32:21 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 3.974 ug/l

RT: 12.42 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

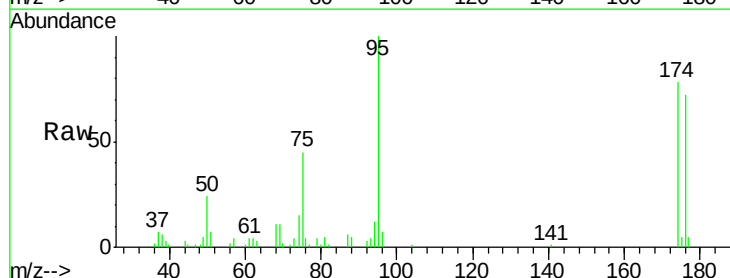
Tgt Ion: 95 Resp: 80517

Ion Ratio Lower Upper

95 100

174 77.5 0.0 158.2

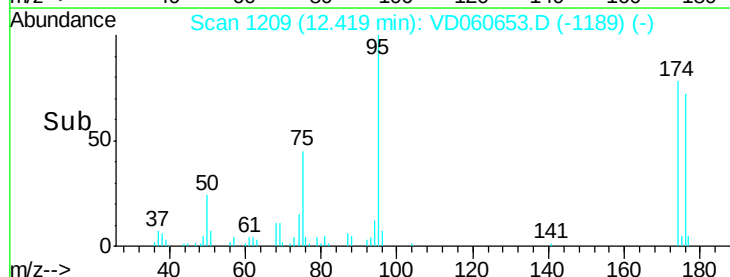
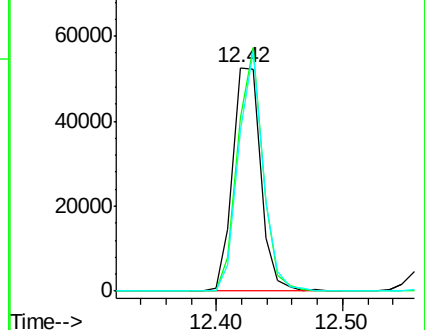
176 72.0 0.0 152.4

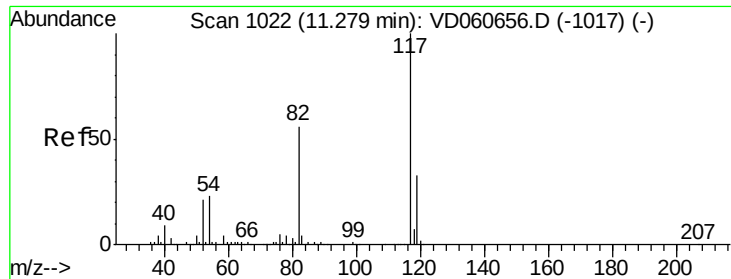


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





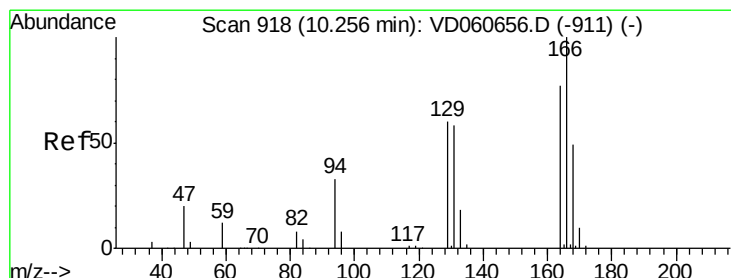
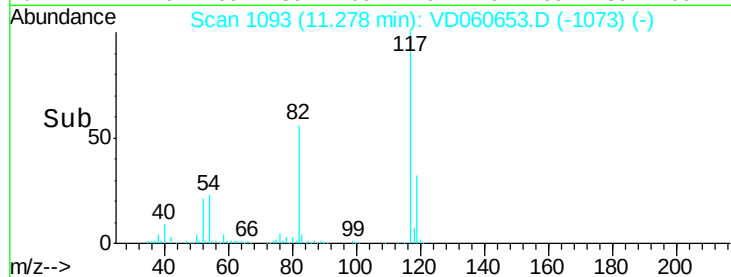
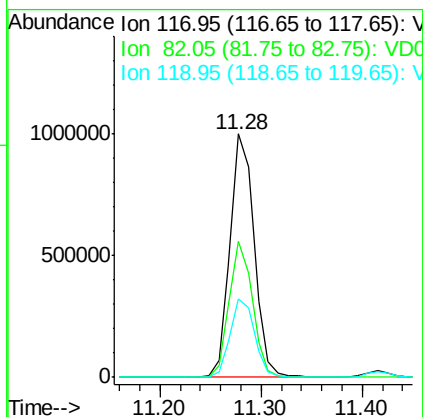
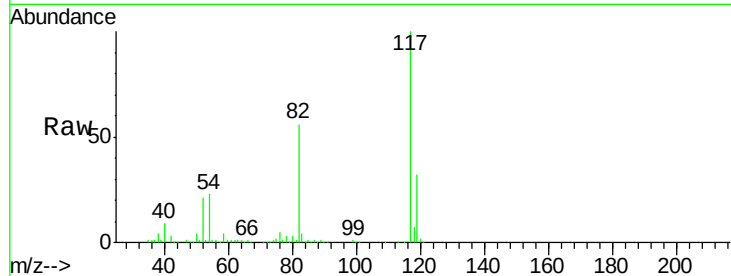
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion:117 Resp: 1662291
Ion Ratio Lower Upper
117 100
82 56.0 44.5 66.7
119 32.3 26.3 39.5

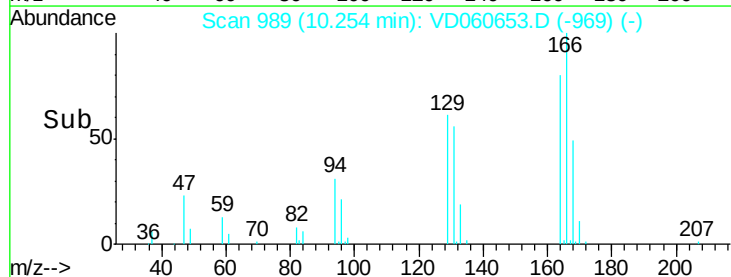
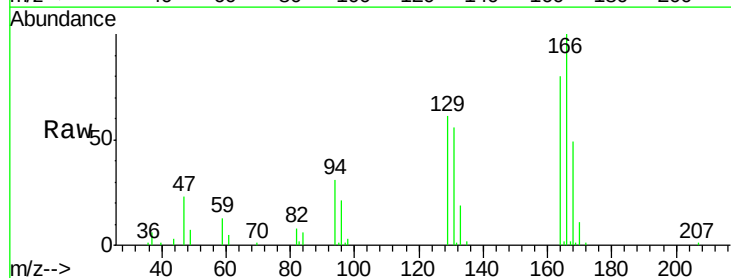
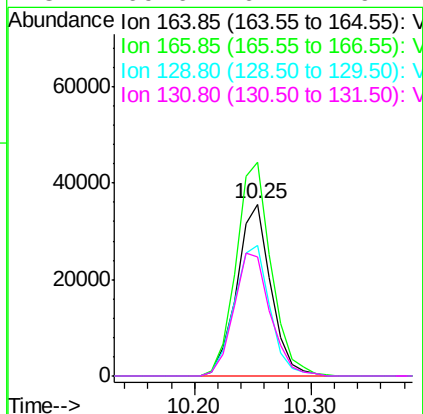
Manual Integrations
APPROVED

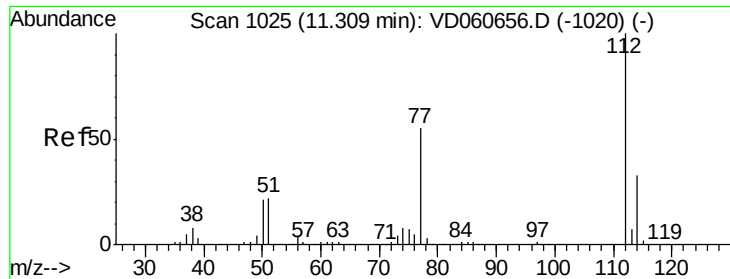
apatel
12/21/2018 11:32:21 AM



#64
Tetrachloroethene
Concen: 4.468 ug/l
RT: 10.25 min Scan# 989
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion:164 Resp: 71826
Ion Ratio Lower Upper
164 100
166 124.3 104.4 156.6
129 75.7 62.7 94.1
131 69.6 61.1 91.7





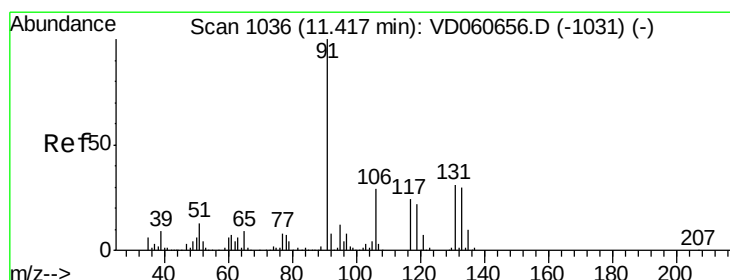
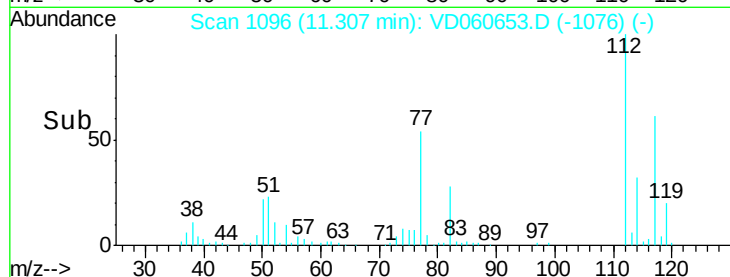
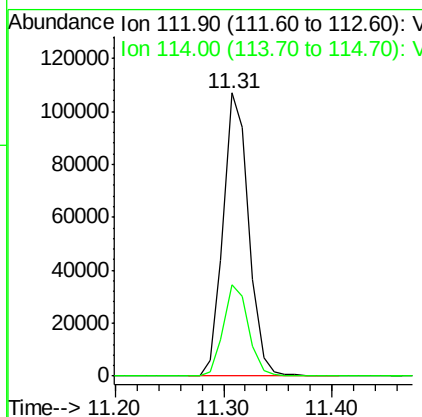
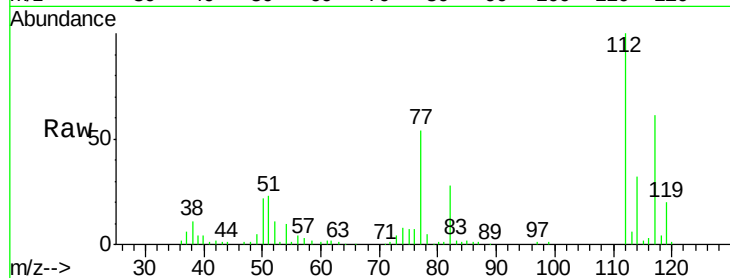
#65
Chlorobenzene
Concen: 4.498 ug/l
RT: 11.31 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion:112 Resp: 175679
Ion Ratio Lower Upper
112 100
114 32.3 26.1 39.1

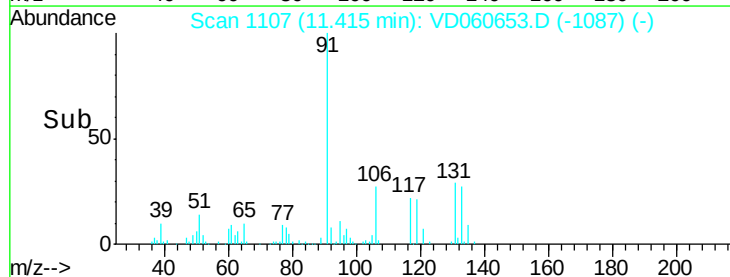
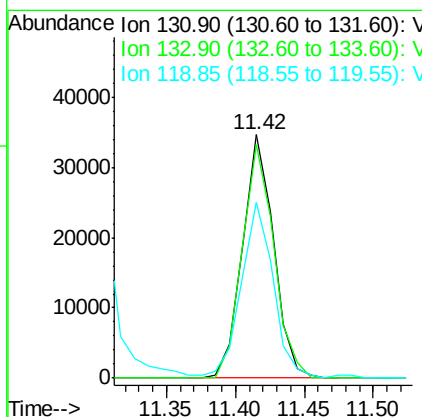
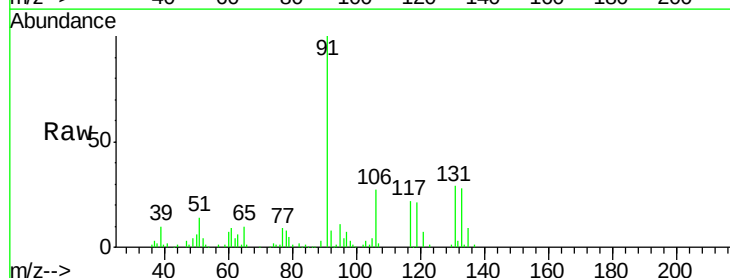
Manual Integrations
APPROVED

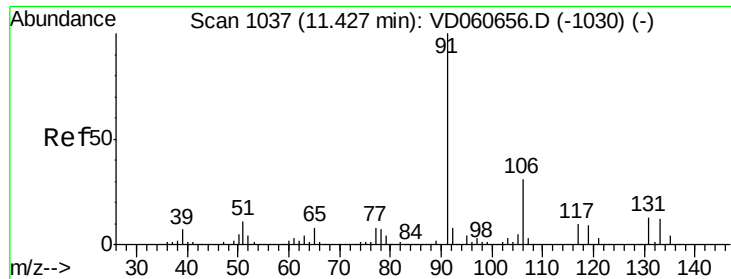
apatel
12/21/2018 11:32:21 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.282 ug/l
RT: 11.42 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion:131 Resp: 54804
Ion Ratio Lower Upper
131 100
133 95.8 49.1 147.3
119 72.2 36.6 109.8





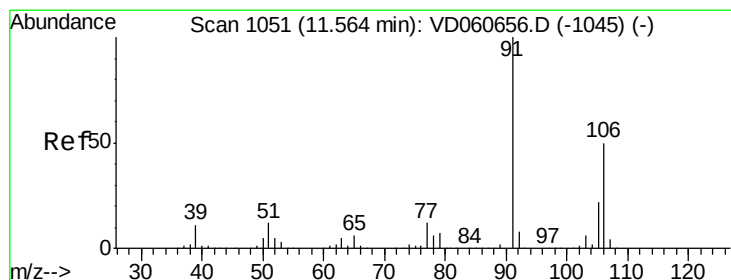
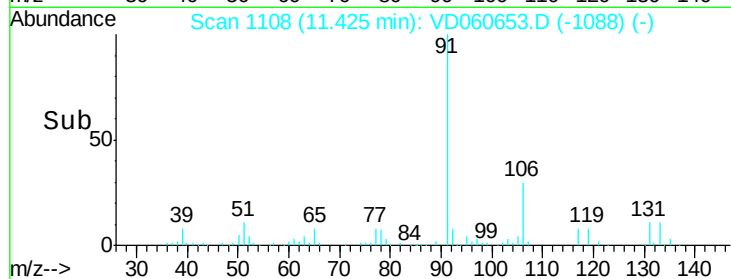
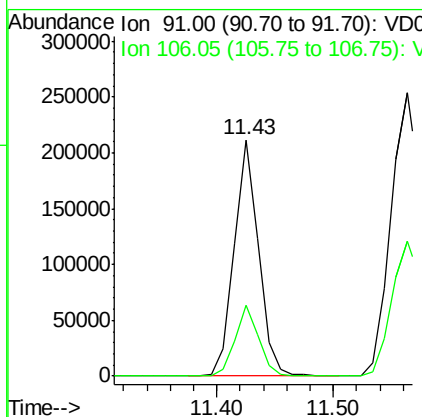
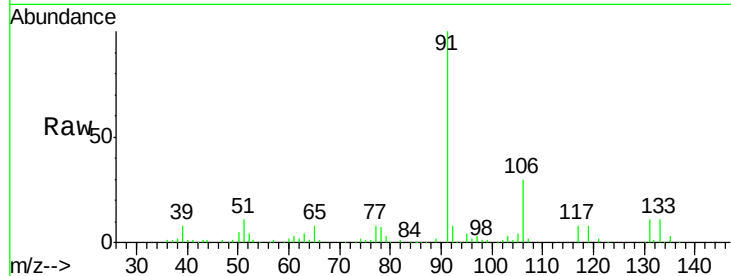
#67
Ethyl Benzene
Concen: 4.586 ug/l
RT: 11.43 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 307737
Ion Ratio Lower Upper
91 100
106 29.9 24.6 36.8

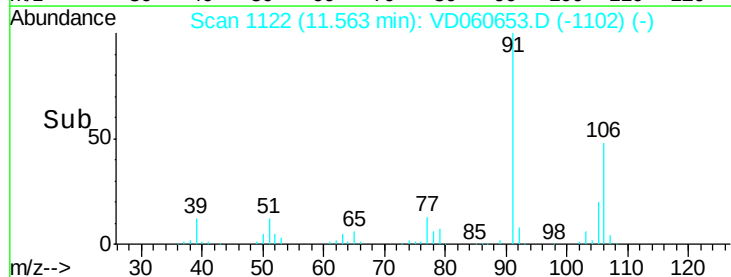
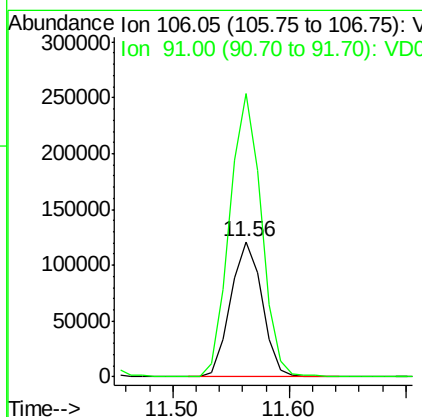
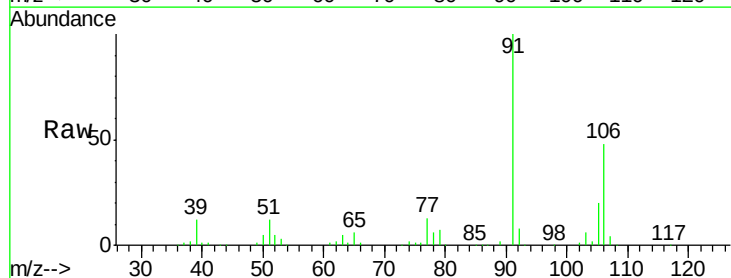
Manual Integrations
APPROVED

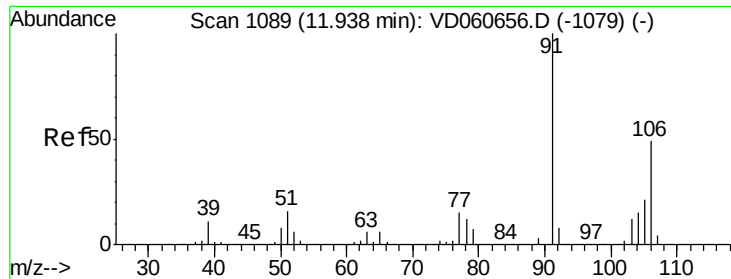
apatel
12/21/2018 11:32:21 AM



#68
m/p-Xylenes
Concen: 9.316 ug/l
RT: 11.56 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 106 Resp: 227022
Ion Ratio Lower Upper
106 100
91 209.6 158.9 238.3





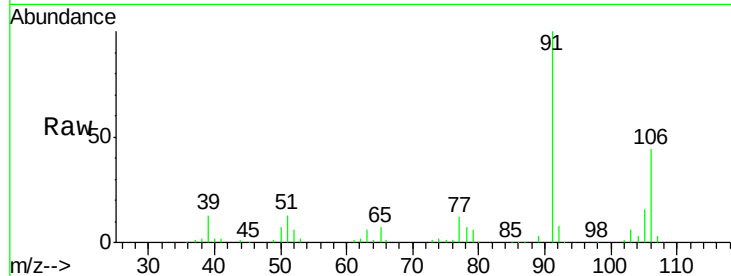
#69
o-Xylene
Concen: 4.266 ug/l
RT: 11.93 min Scan# 1159
Delta R.T. -0.01 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

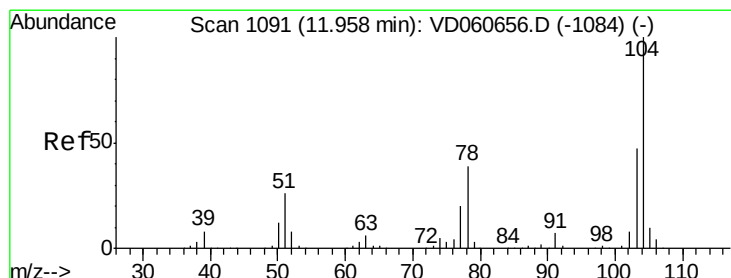
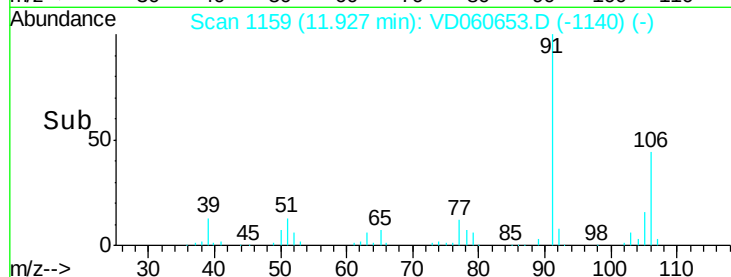
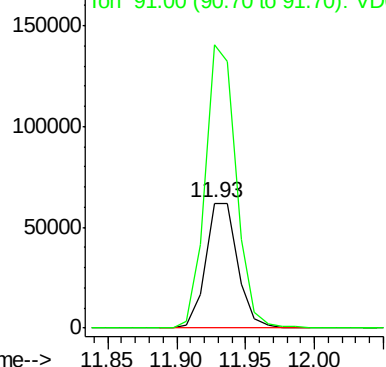
Tgt Ion:106 Resp: 100786
Ion Ratio Lower Upper
106 100
91 226.0 101.5 304.5

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM

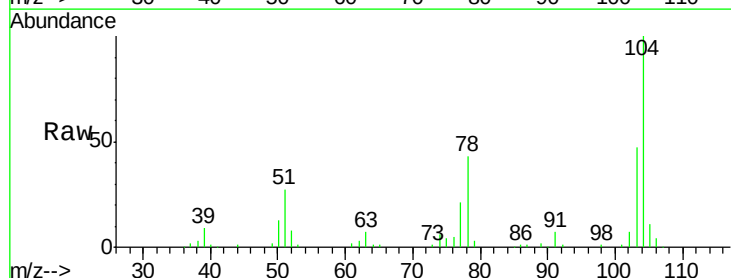


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

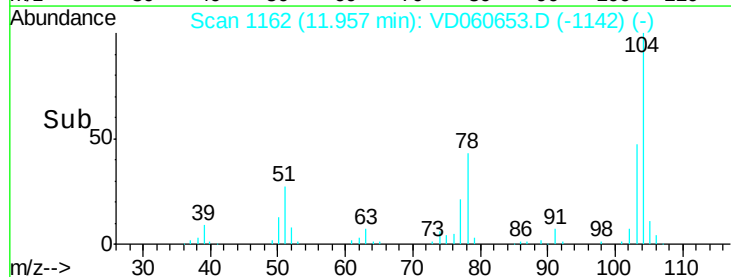
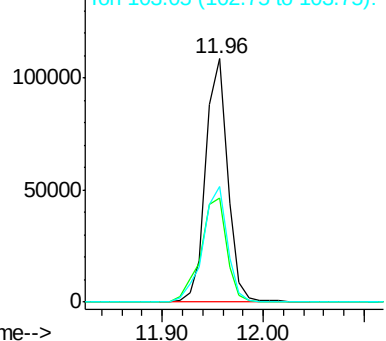


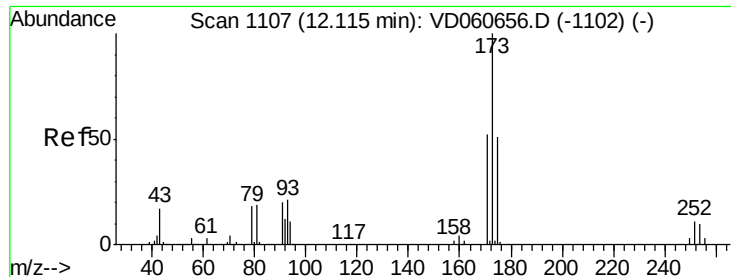
#70
Styrene
Concen: 4.293 ug/l
RT: 11.96 min Scan# 1162
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion:104 Resp: 163670
Ion Ratio Lower Upper
104 100
78 42.8 31.4 47.2
103 47.3 37.5 56.3



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





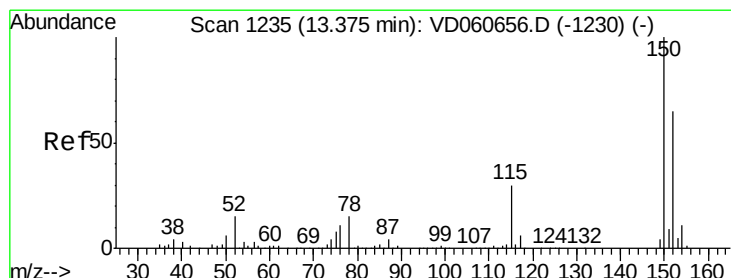
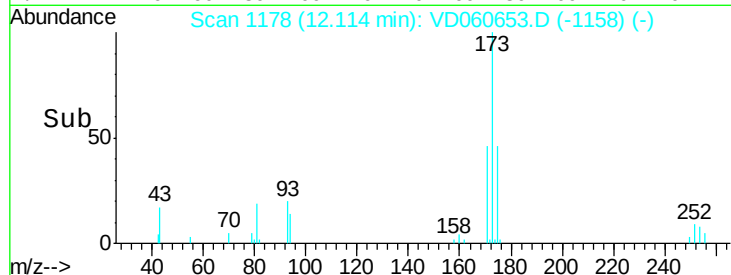
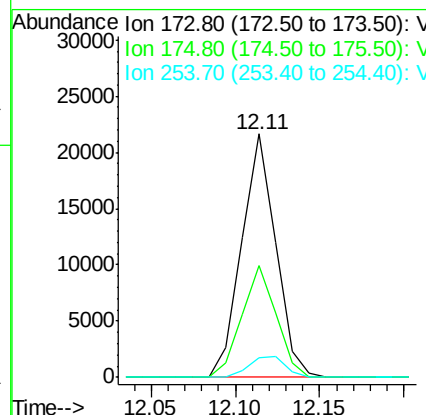
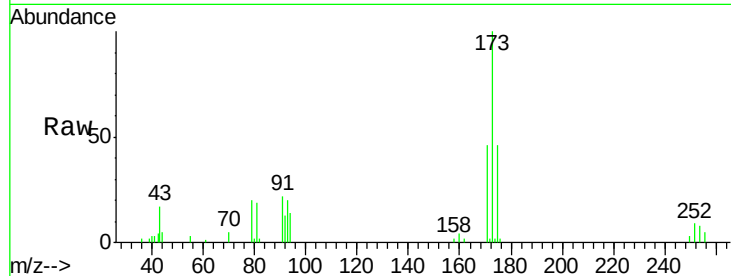
#71
Bromoform
Concen: 3.520 ug/l
RT: 12.11 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.1	25.5	76.5
254	8.2	7.9	11.9

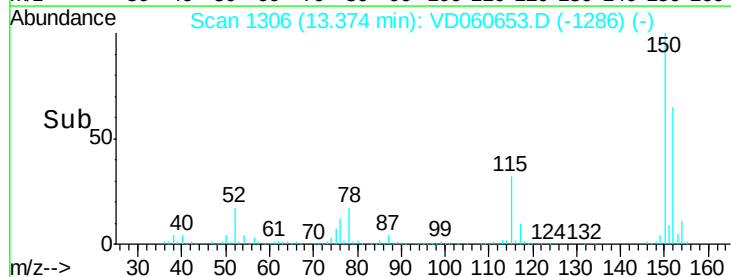
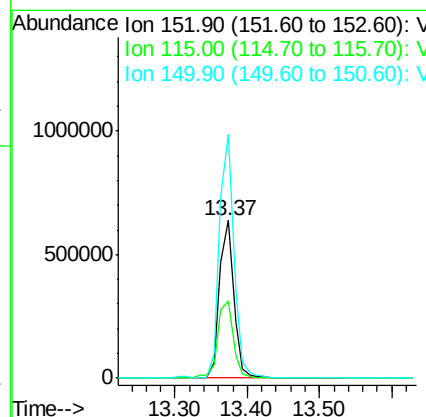
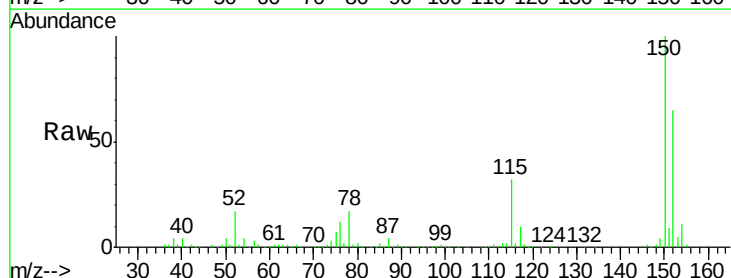
Manual Integrations
APPROVED

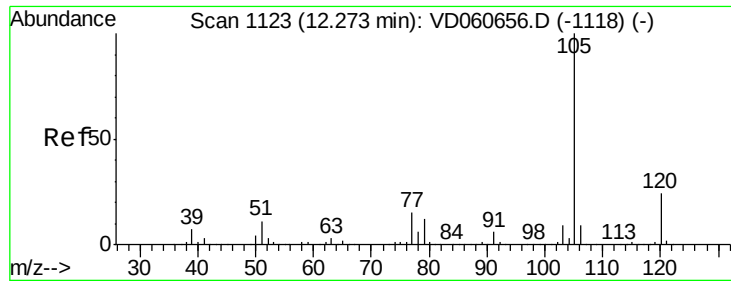
apatel
12/21/2018 11:32:21 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.7	24.1	72.3
150	154.3	0.0	315.0





#73

Isopropylbenzene

Concen: 4.433 ug/l

RT: 12.27 min Scan# 1194

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 105 Resp: 293331

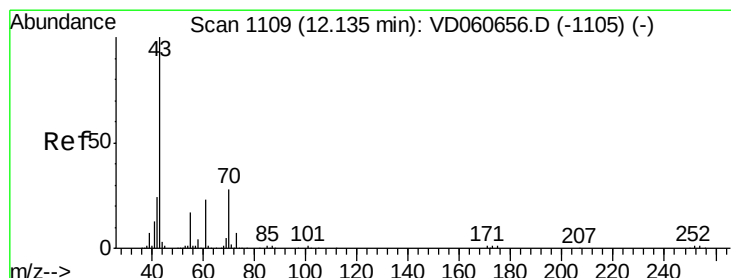
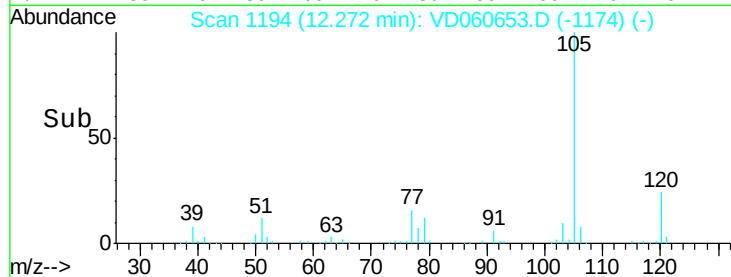
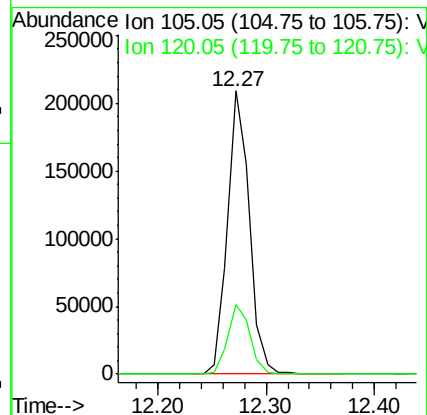
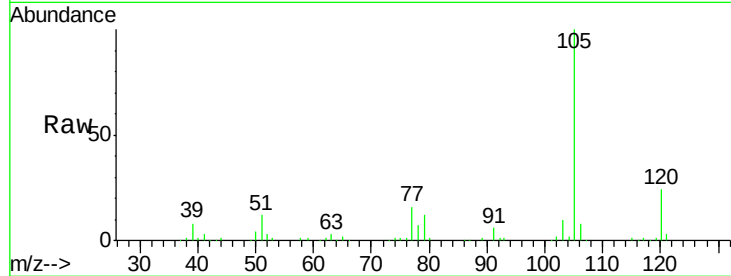
Ion Ratio Lower Upper

105 100

120 24.4 12.2 36.4

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#74

N-ethyl acetate

Concen: 3.663 ug/l

RT: 12.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion: 43 Resp: 57413

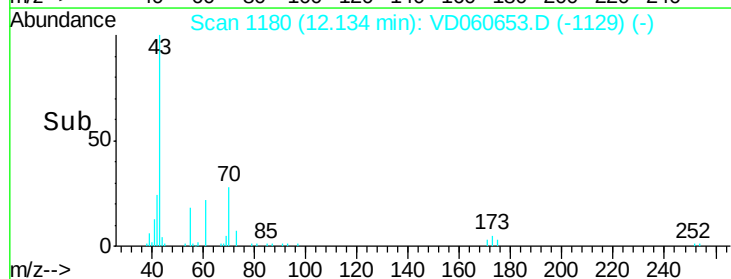
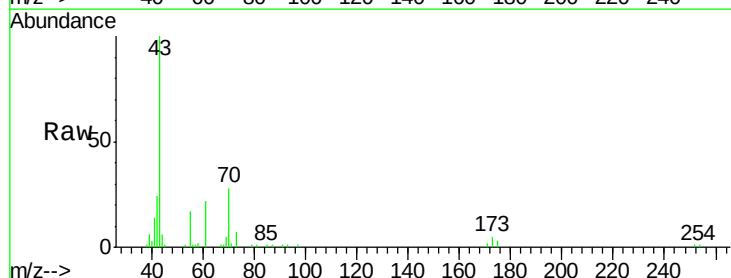
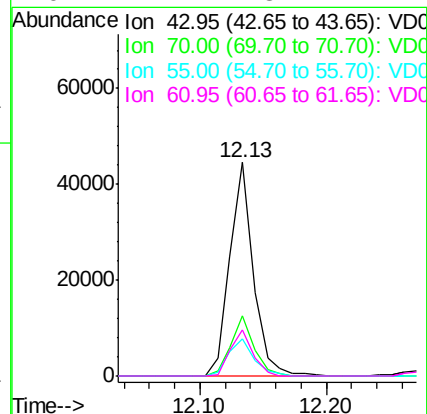
Ion Ratio Lower Upper

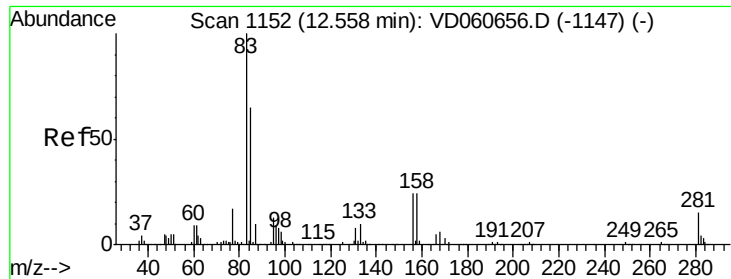
43 100

70 28.3 22.2 33.2

55 17.5 13.8 20.8

61 21.7 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 4.044 ug/l

RT: 12.56 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

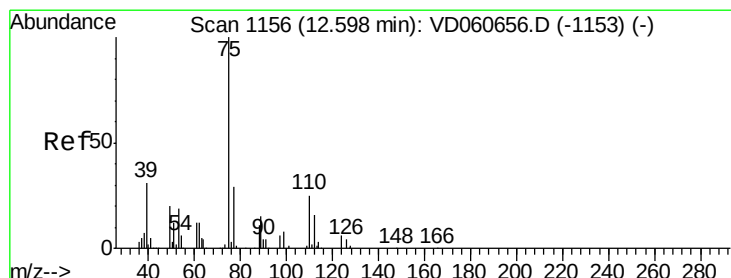
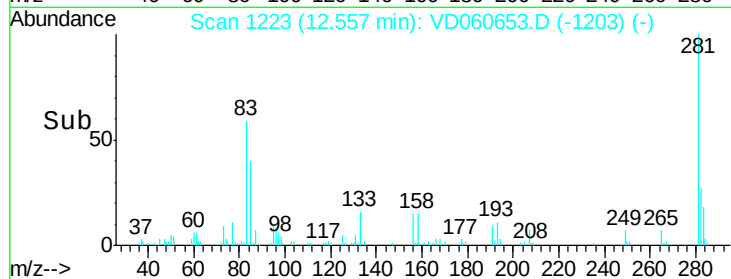
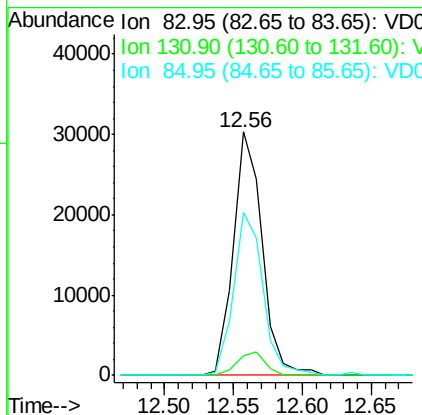
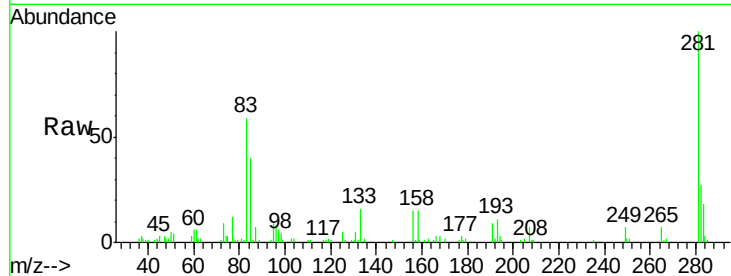
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	44361
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.2	12.4
85	67.2	32.6	97.7

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#76

1,2,3-Trichloropropane

Concen: 4.025 ug/l

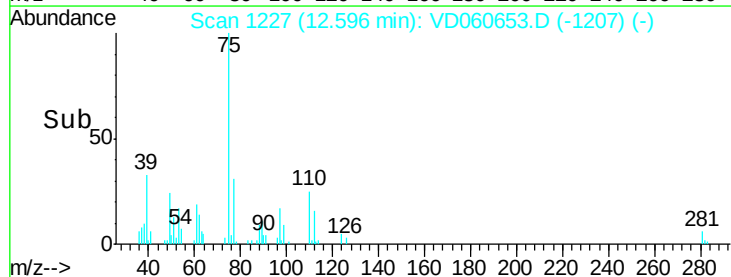
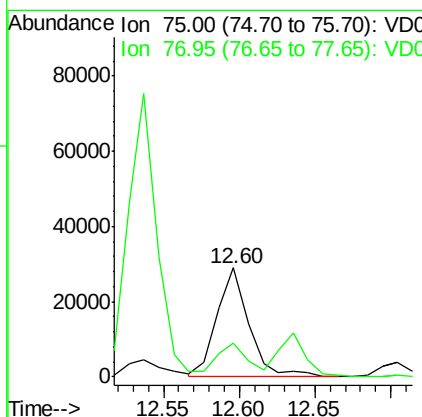
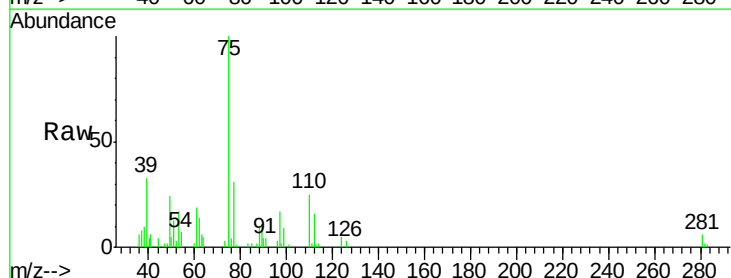
RT: 12.60 min Scan# 1227

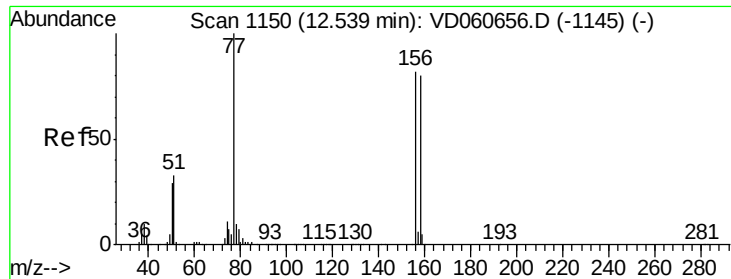
Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	75	Resp:	42854
Ion Ratio	Lower	Upper	
75	100		
77	30.9	16.7	50.0





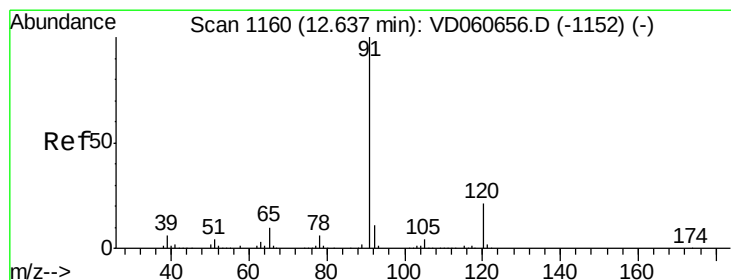
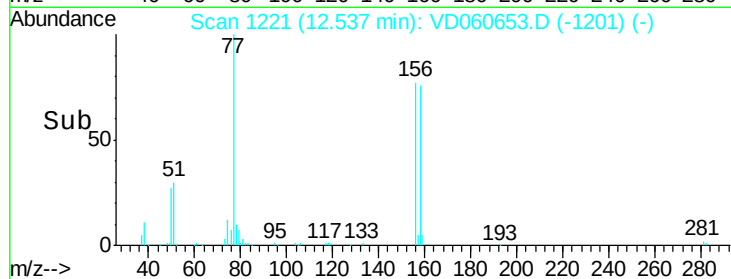
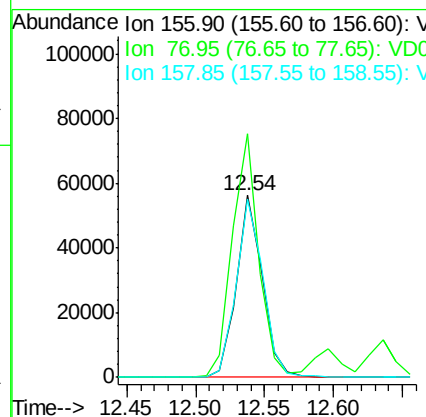
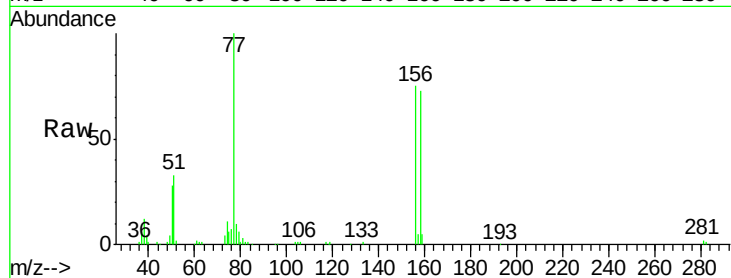
#77
Bromobenzene
Concen: 4.191 ug/l
RT: 12.54 min Scan# 1221
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 156 Resp: 73902
Ion Ratio Lower Upper
156 100
77 133.7 61.3 183.9
158 98.2 48.9 146.6

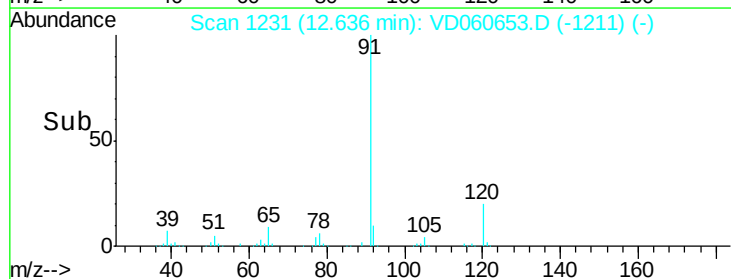
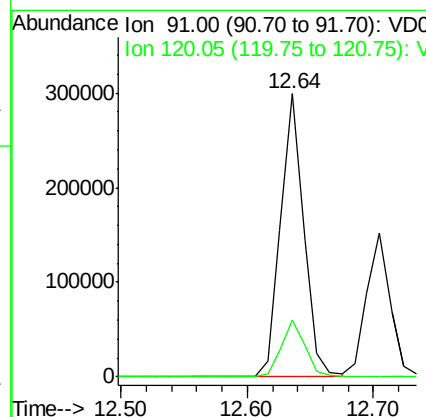
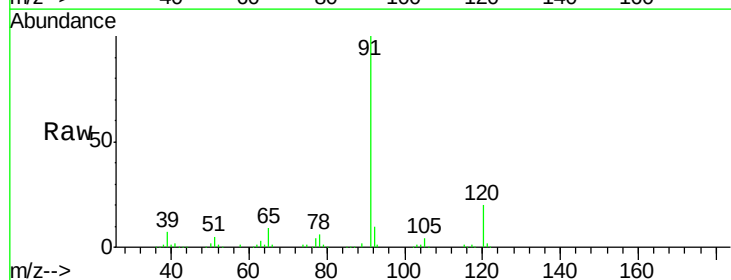
Manual Integrations
APPROVED

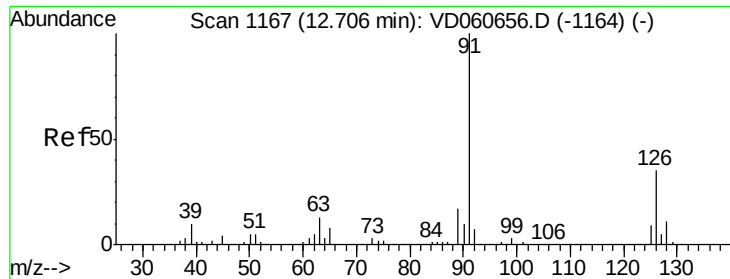
apatel
12/21/2018 11:32:21 AM



#78
n-propylbenzene
Concen: 4.557 ug/l
RT: 12.64 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 91 Resp: 384167
Ion Ratio Lower Upper
91 100
120 20.0 10.4 31.2





#79

2-Chlorotoluene

Concen: 4.352 ug/l

RT: 12.70 min Scan# 1238

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 198944

Ion Ratio Lower Upper

91 100

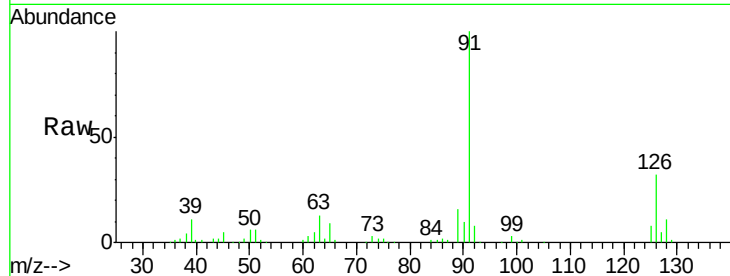
126 32.2 17.2 51.5

Manual Integrations

APPROVED

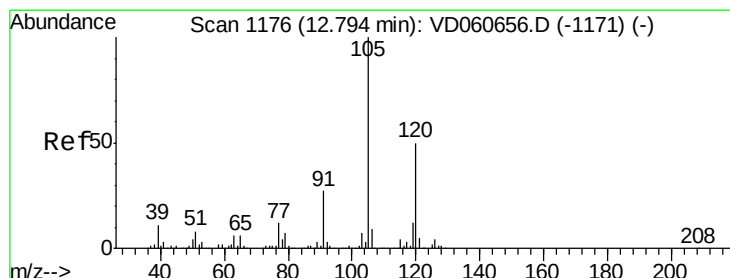
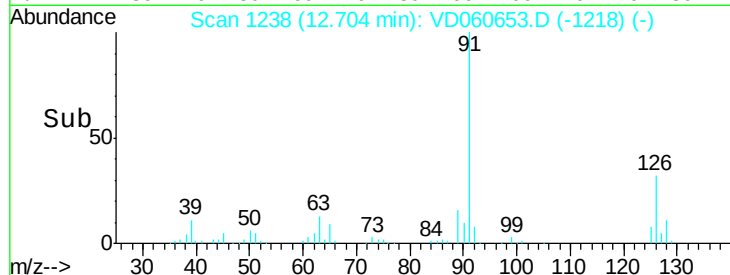
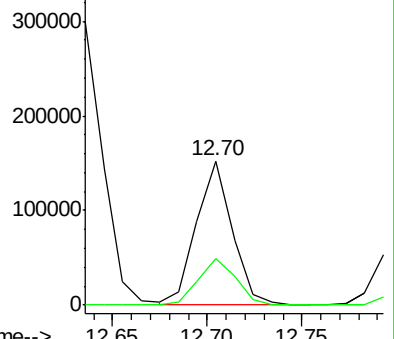
apatel

12/21/2018 11:32:21 AM



Abundance Ion 91.00 (90.70 to 91.70): VD060653.D (-1218) (-)

Ion 125.95 (125.65 to 126.65): VD060653.D (-1218) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.536 ug/l

RT: 12.79 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD060653.D

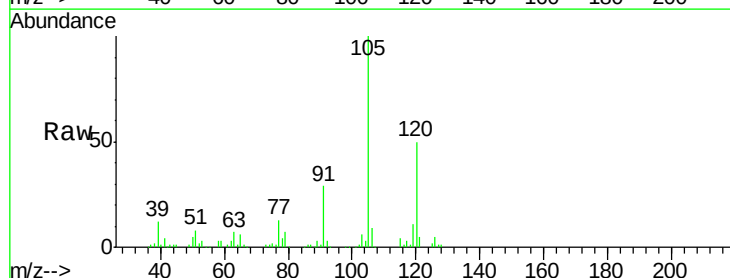
Acq: 20 Dec 2018 10:58

Tgt Ion: 105 Resp: 230961

Ion Ratio Lower Upper

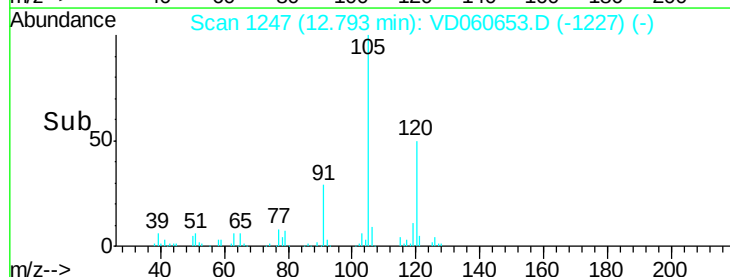
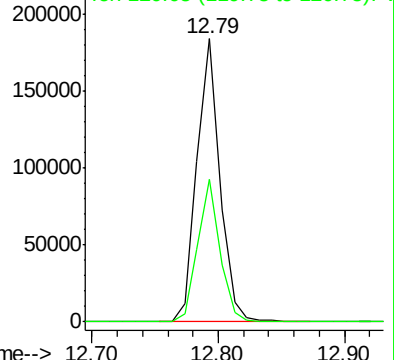
105 100

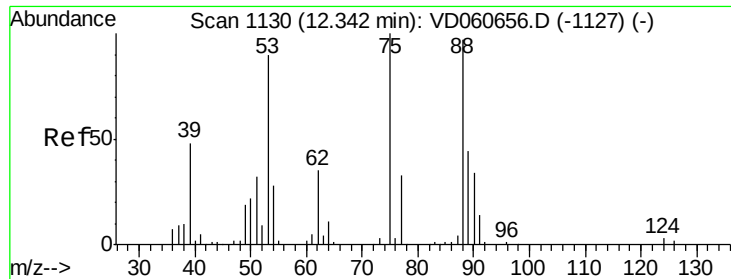
120 50.2 24.8 74.4



Abundance Ion 105.05 (104.75 to 105.75): VD060653.D (-1227) (-)

Ion 120.05 (119.75 to 120.75): VD060653.D (-1227) (-)





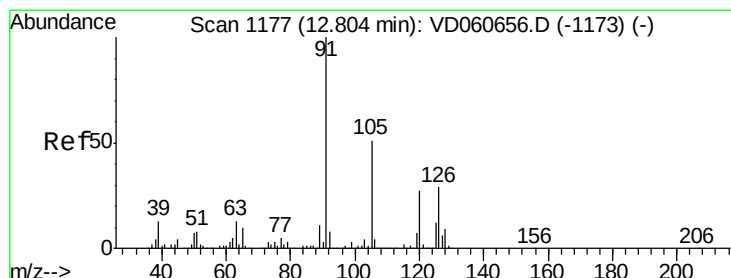
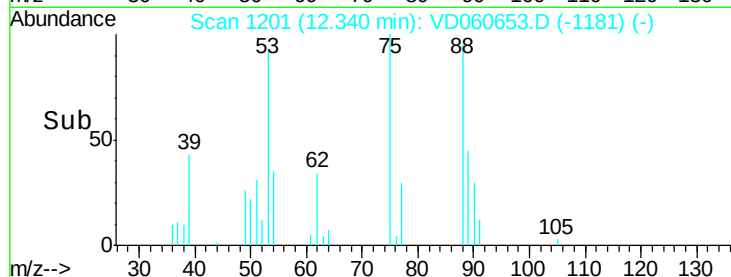
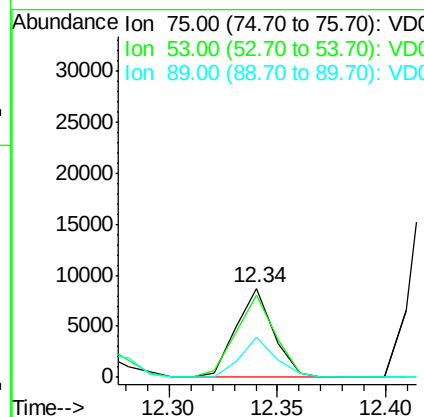
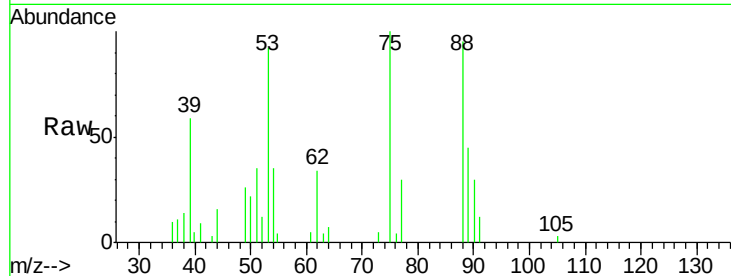
#81
trans-1,4-Dichloro-2-butene
Concen: 3.367 ug/l
RT: 12.34 min Scan# 1201
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
75	100		
53	92.5	72.1	108.1
89	44.9	35.1	52.7

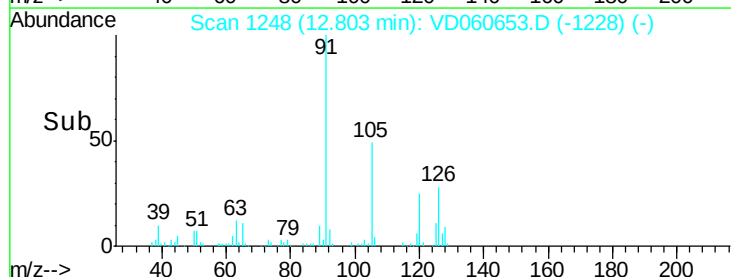
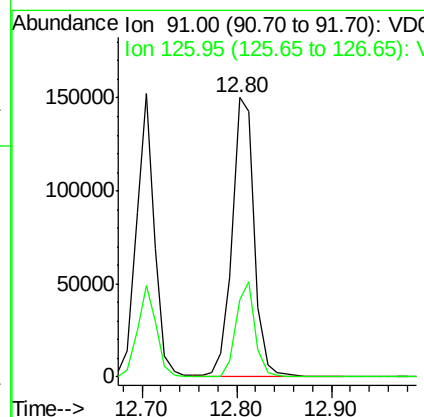
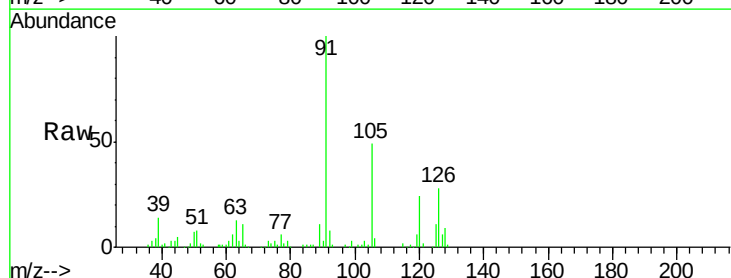
Manual Integrations
APPROVED

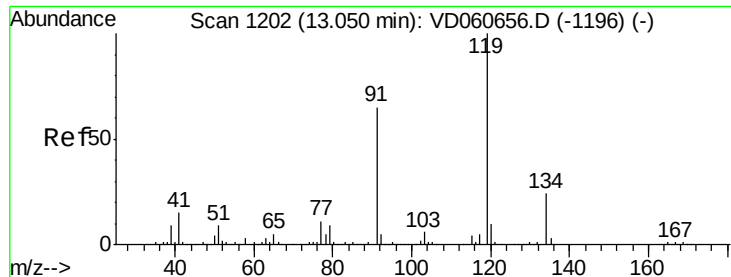
apatel
12/21/2018 11:32:21 AM



#82
4-Chlorotoluene
Concen: 4.853 ug/l
RT: 12.80 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.6	14.6	43.8





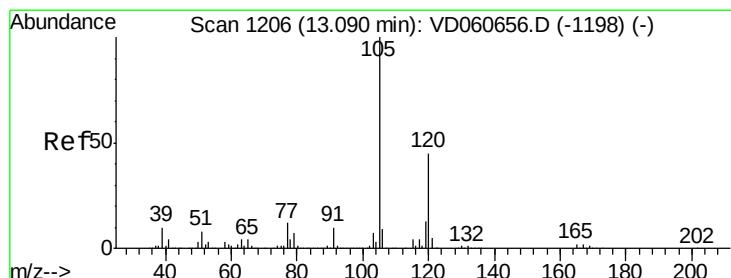
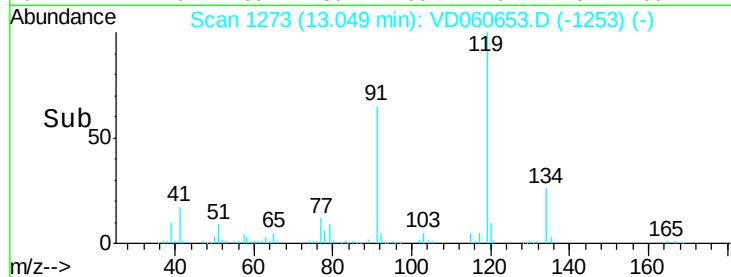
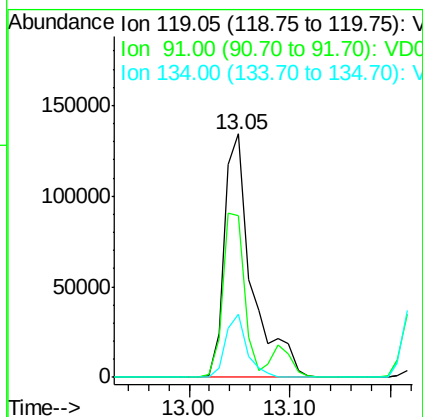
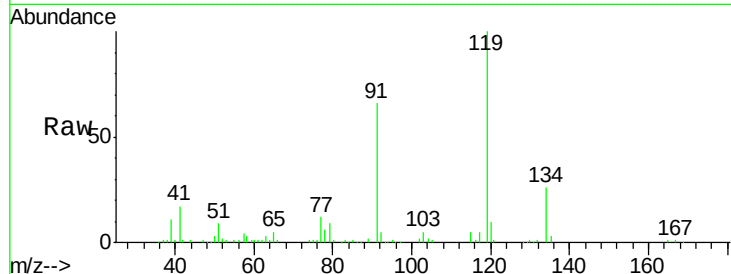
#83
 tert-Butylbenzene
 Concen: 4.403 ug/l
 RT: 13.05 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	255490		
91	66.3	32.5	97.4	
134	25.9	11.9	35.9	

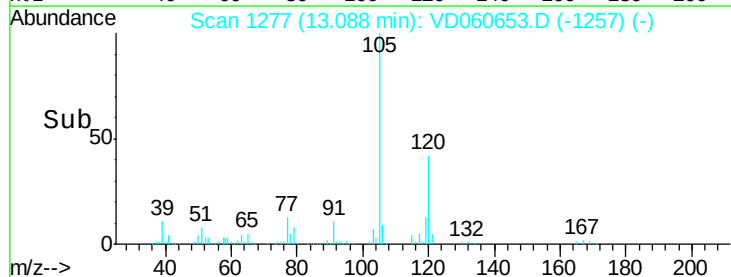
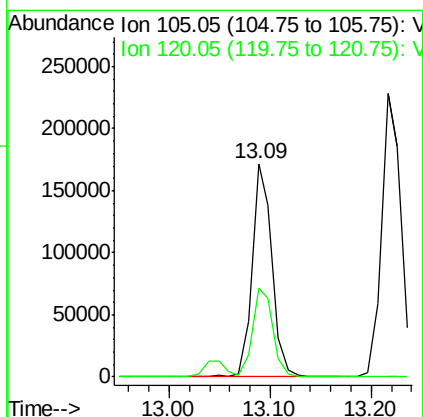
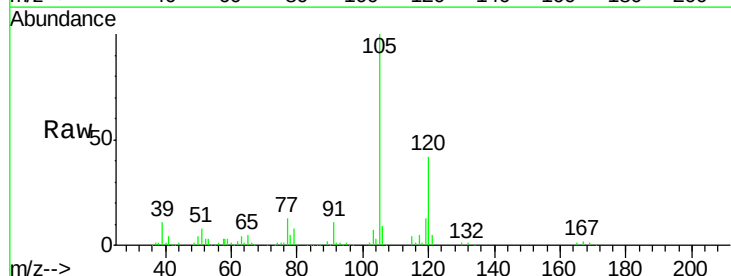
Manual Integrations
 APPROVED

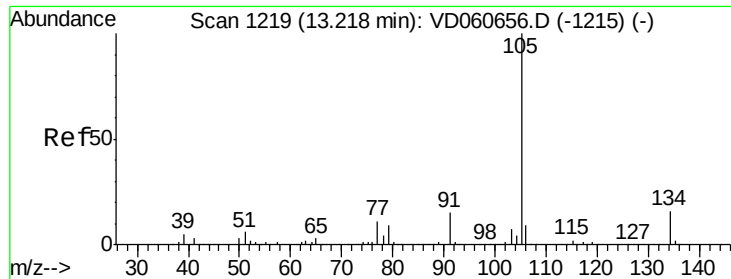
apatel
 12/21/2018 11:32:21 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 4.455 ug/l
 RT: 13.09 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	235670		
120	41.8	22.4	67.0	





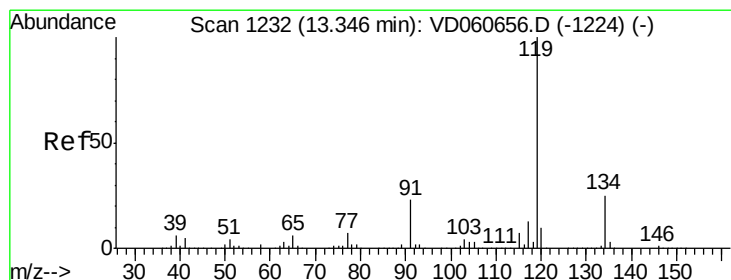
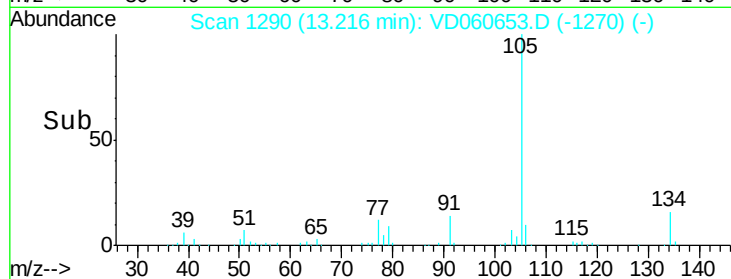
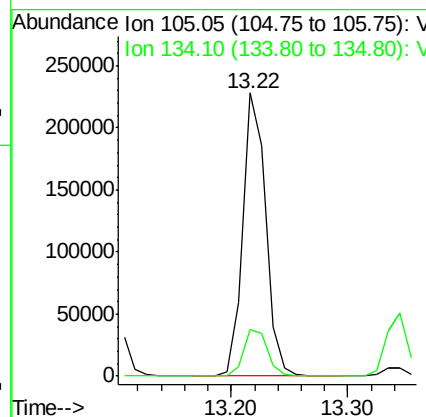
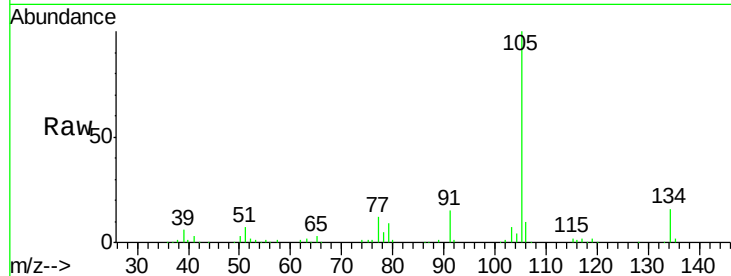
#85
 sec-Butylbenzene
 Concen: 4.312 ug/l
 RT: 13.22 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion: 105 Resp: 311546
 Ion Ratio Lower Upper
 105 100
 134 16.3 8.2 24.4

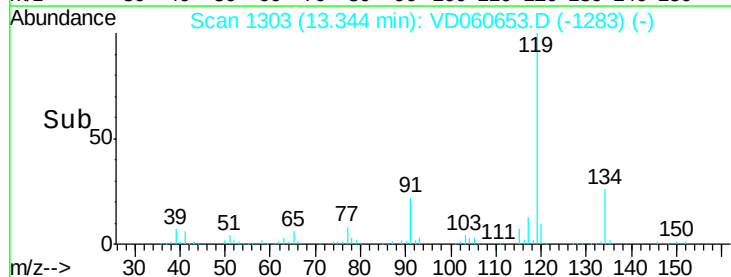
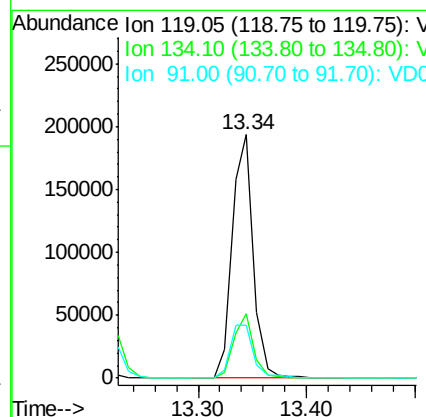
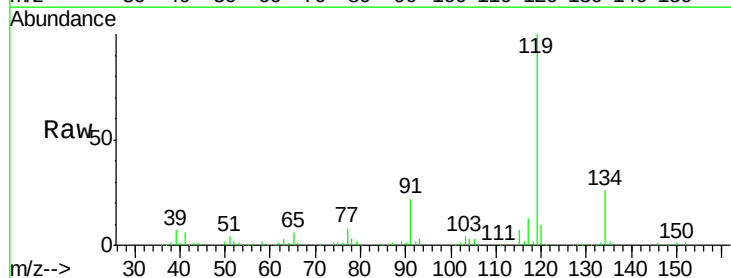
Manual Integrations
 APPROVED

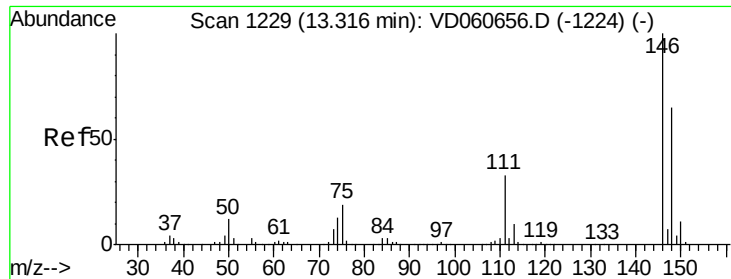
apatel
 12/21/2018 11:32:21 AM



#86
 p-Isopropyltoluene
 Concen: 4.595 ug/l
 RT: 13.34 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion: 119 Resp: 259545
 Ion Ratio Lower Upper
 119 100
 134 26.3 12.5 37.5
 91 21.8 11.4 34.2





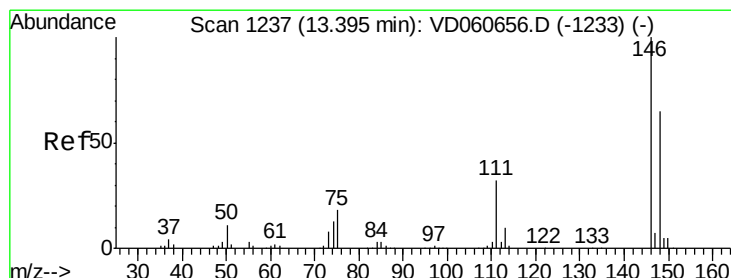
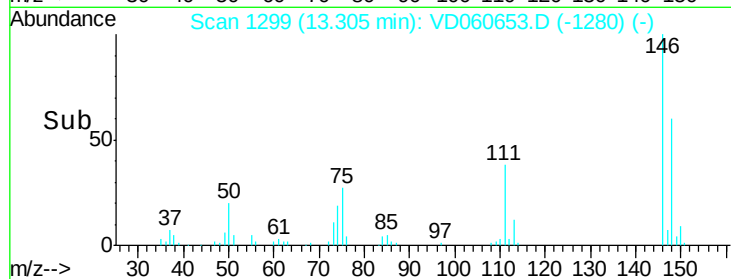
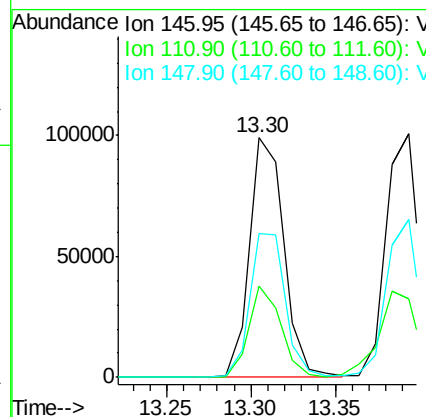
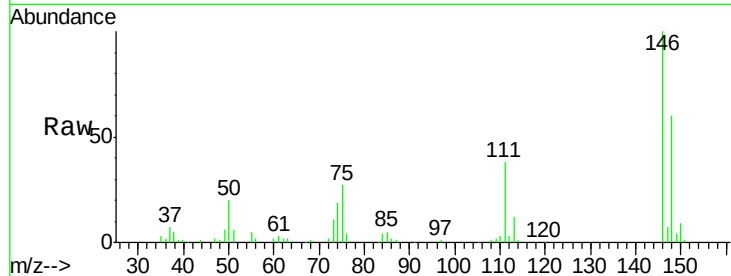
#87
 1,3-Dichlorobenzene
 Concen: 4.383 ug/l
 RT: 13.30 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	16.6	49.8
148	60.3	32.6	97.8

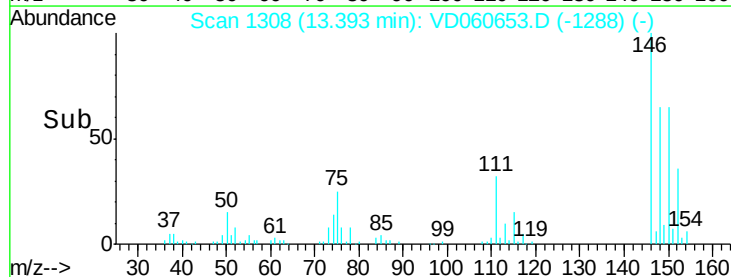
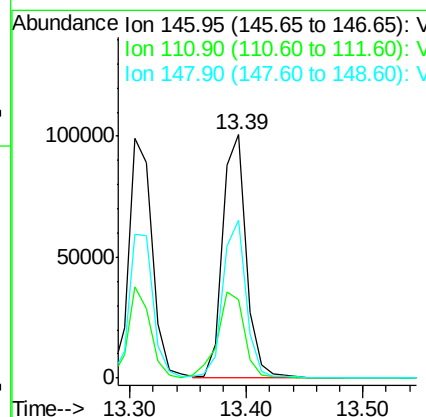
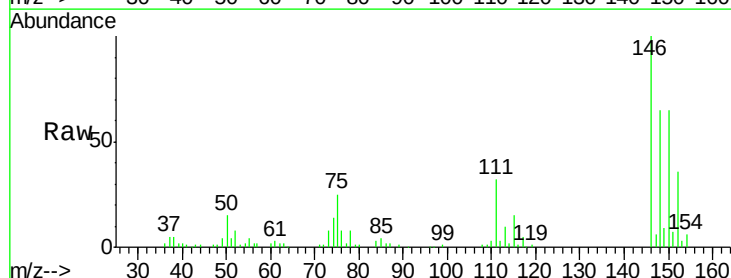
Manual Integrations
 APPROVED

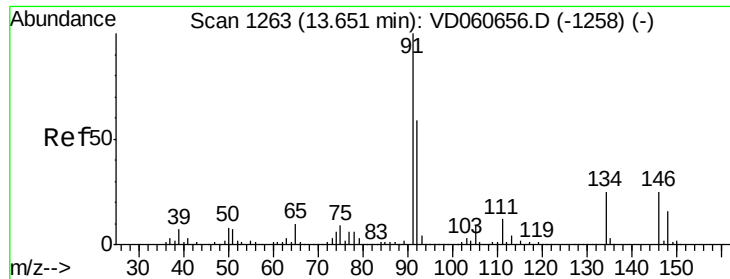
apatel
 12/21/2018 11:32:21 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.488 ug/l
 RT: 13.39 min Scan# 1308
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.2	16.2	48.5
148	64.9	32.7	98.1





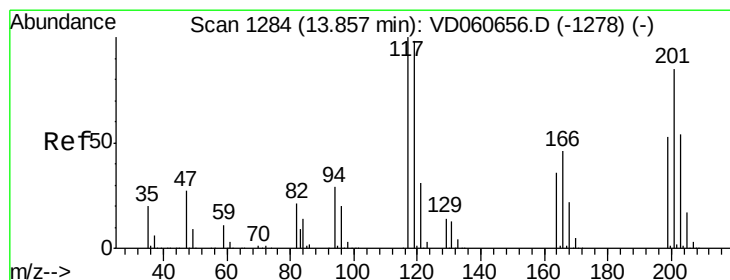
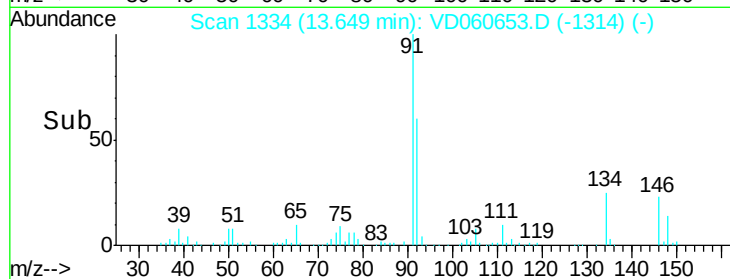
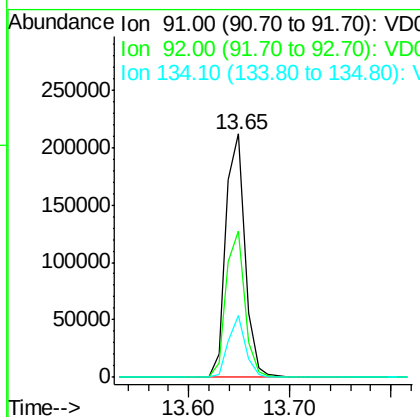
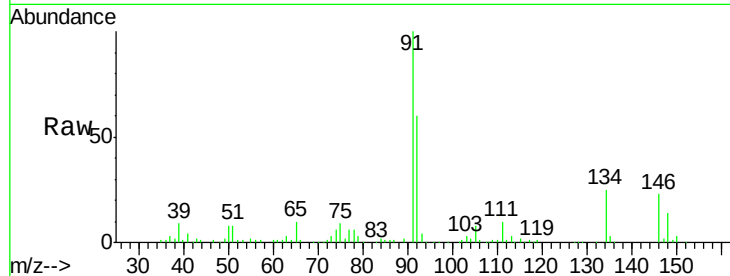
#89
n-Butylbenzene
Concen: 4.853 ug/l
RT: 13.65 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 280046
Ion Ratio Lower Upper
91 100
92 60.1 29.7 89.1
134 25.4 12.7 38.1

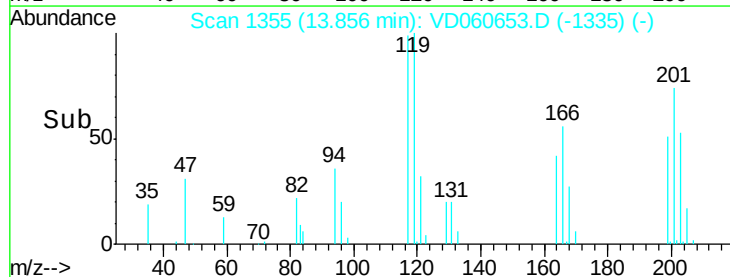
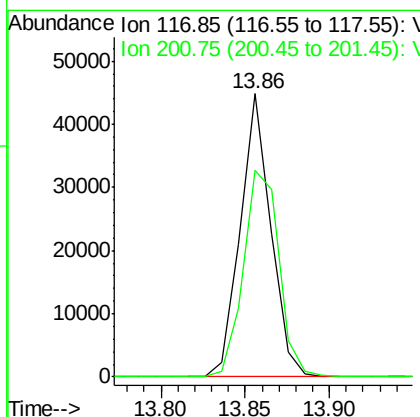
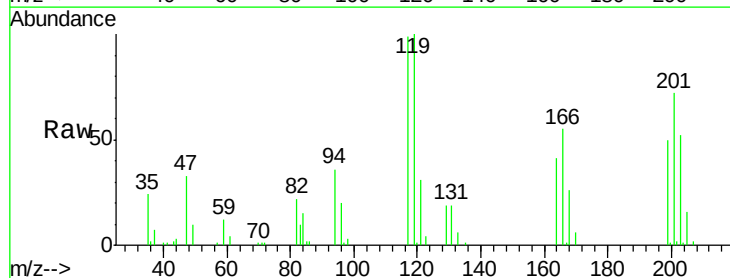
Manual Integrations
APPROVED

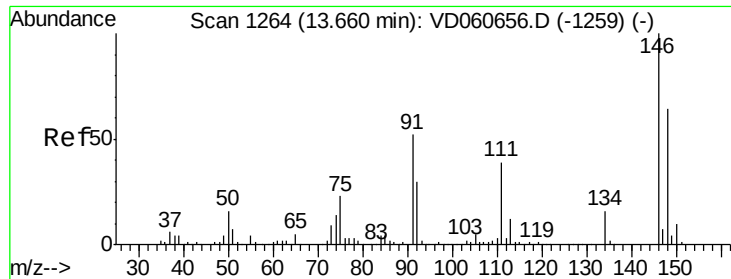
apatel
12/21/2018 11:32:21 AM



#90
Hexachloroethane
Concen: 3.913 ug/l
RT: 13.86 min Scan# 1355
Delta R.T. -0.00 min
Lab File: VD060653.D
Acq: 20 Dec 2018 10:58

Tgt Ion: 117 Resp: 56163
Ion Ratio Lower Upper
117 100
201 73.1 42.6 127.8





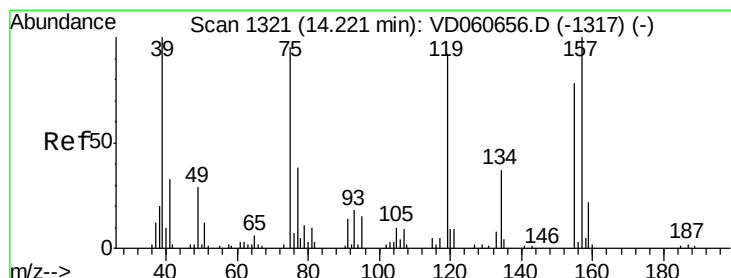
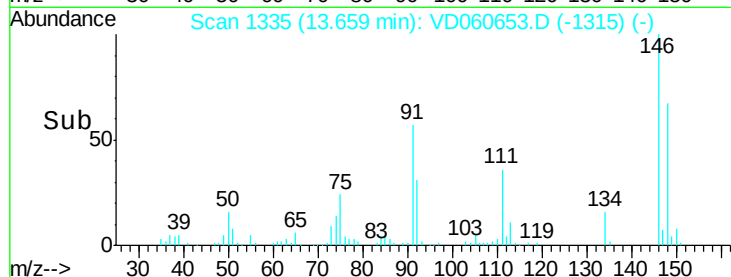
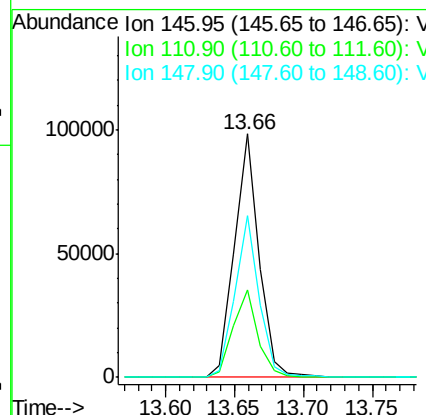
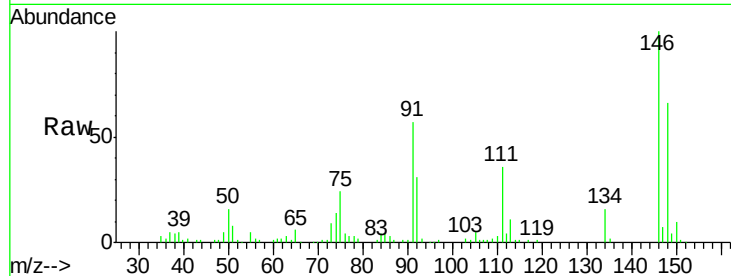
#91
 1,2-Dichlorobenzene
 Concen: 4.776 ug/l
 RT: 13.66 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	19.3	57.9
148	66.3	31.9	95.9

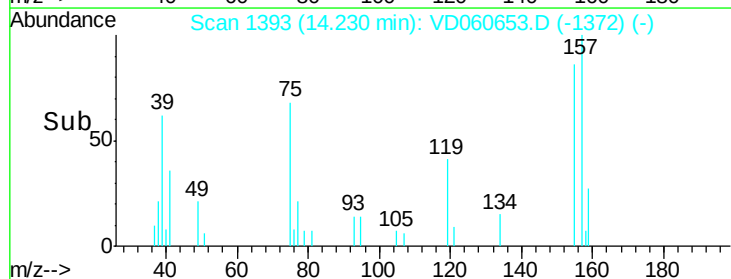
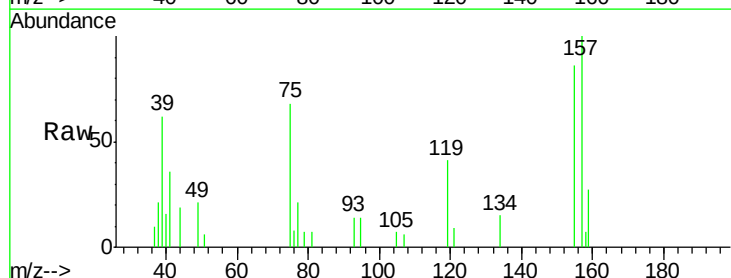
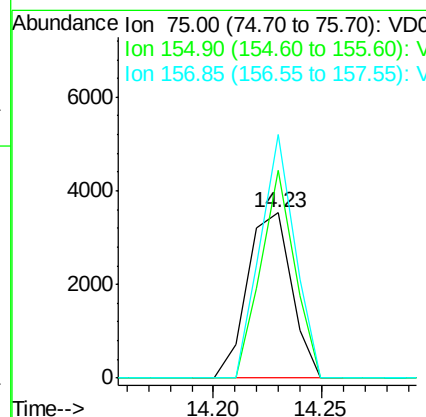
Manual Integrations
 APPROVED

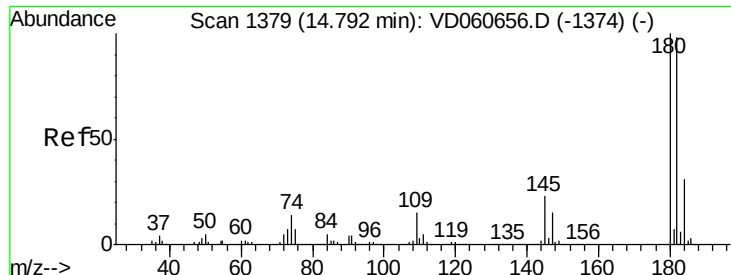
apatel
 12/21/2018 11:32:21 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.865 ug/l
 RT: 14.23 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	126.0	41.1	123.4#
157	147.3	52.5	157.6





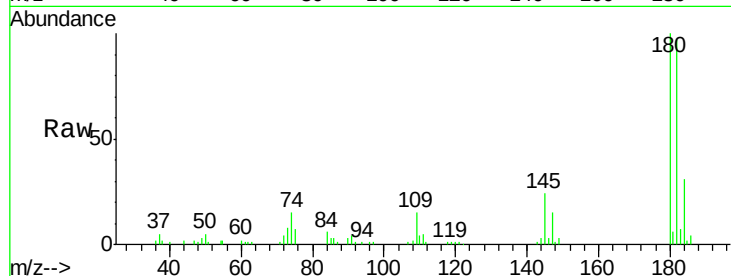
#93
 1,2,4-Trichlorobenzene
 Concen: 4.076 ug/l
 RT: 14.79 min Scan# 1450
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

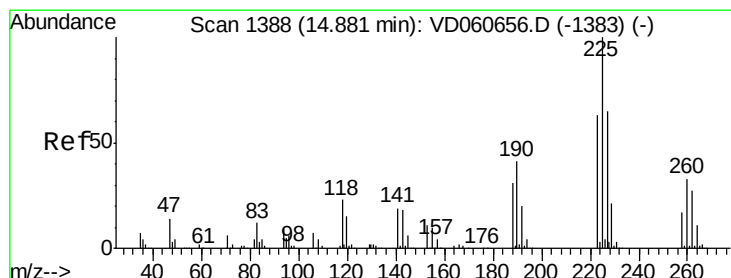
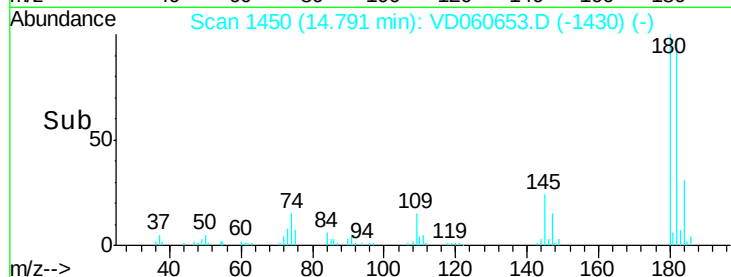
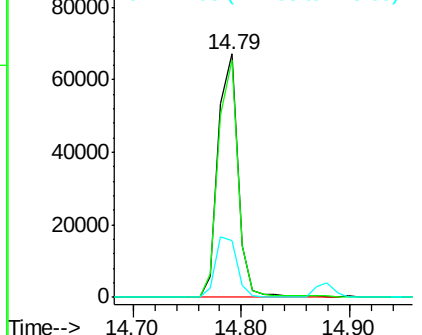
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.8	146.4
145	23.6	11.8	35.3

Manual Integrations
 APPROVED

apatel
 12/21/2018 11:32:21 AM

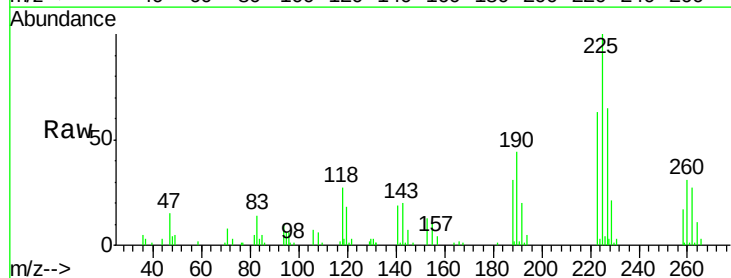


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

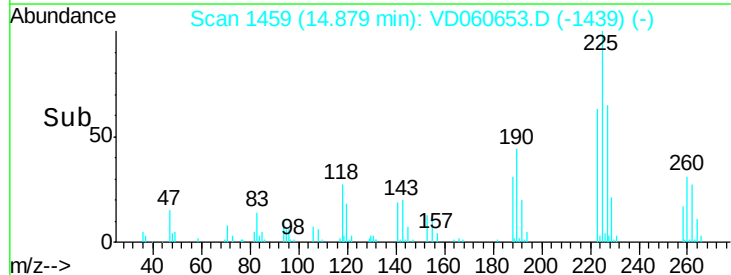
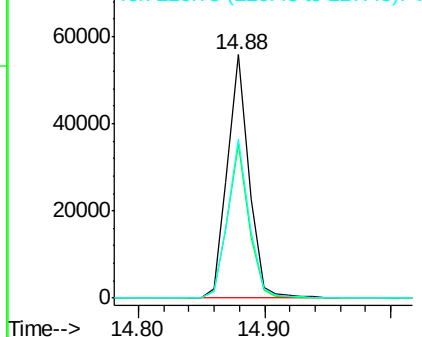


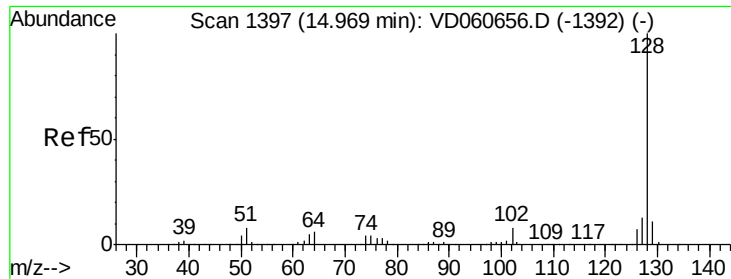
#94
 Hexachlorobutadiene
 Concen: 4.356 ug/l
 RT: 14.88 min Scan# 1459
 Delta R.T. -0.00 min
 Lab File: VD060653.D
 Acq: 20 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.3	93.8
227	65.3	32.5	97.4



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: 3.520 ug/l

RT: 14.97 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Instrument :

MSVOA_D

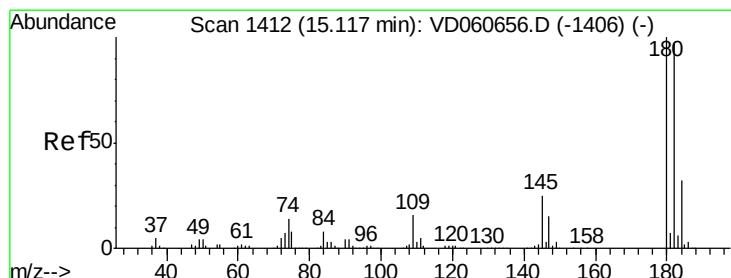
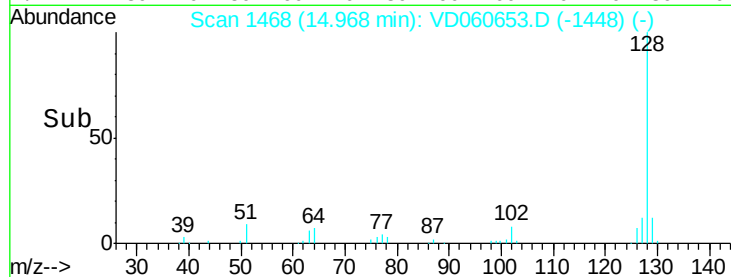
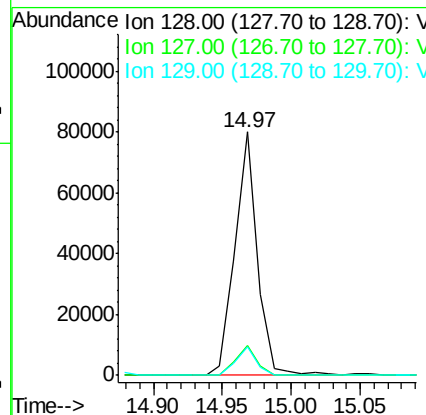
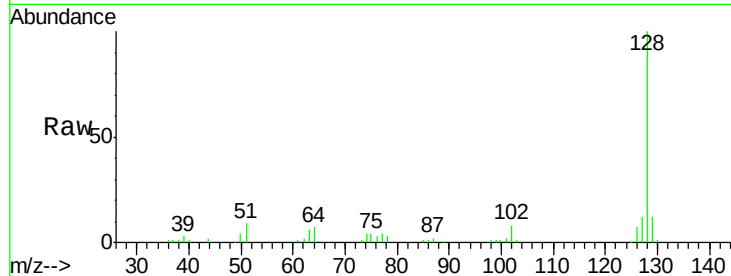
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	90358
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.1	15.1
129	11.8	8.6	13.0

Manual Integrations
APPROVED

apatel
12/21/2018 11:32:21 AM



#96

1,2,3-Trichlorobenzene

Concen: 3.813 ug/l

RT: 15.12 min Scan# 1483

Delta R.T. -0.00 min

Lab File: VD060653.D

Acq: 20 Dec 2018 10:58

Tgt Ion:	180	Resp:	63267
Ion Ratio	Lower	Upper	
180	100		
182	100.9	48.6	145.9
145	26.5	12.6	37.8

