

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121718\
 Data File : VD060591.D
 Acq On : 17 Dec 2018 10:58
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/18/2018 3:30:50 PM

Quant Time: Dec 18 13:01:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.43	168	1630681	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.47	114	2285176	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.30	117	1814323	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.38	152	925238	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.82	65	559942	48.45	ug/l	0.02
Spiked Amount	50.000		Recovery	=	96.90%	
35) Dibromofluoromethane	6.35	113	831228	49.52	ug/l	0.02
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	9.48	98	2387274	49.15	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.30%	
62) 4-Bromofluorobenzene	12.44	95	833267	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.62	85	804747	52.186	ug/l	96
3) Chloromethane	1.79	50	821931	49.058	ug/l	97
4) Vinyl Chloride	1.89	62	697755	52.182	ug/l	99
5) Bromomethane	2.18	94	178255	53.287	ug/l	95
6) Chloroethane	2.29	64	226278	52.986	ug/l	97
7) Trichlorofluoromethane	2.55	101	852939	55.243	ug/l	100
8) Diethyl Ether	2.86	74	145164	54.433	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.13	101	539917	53.895	ug/l	98
10) Methyl Iodide	3.28	142	615574	52.568	ug/l	98
11) Tert butyl alcohol	4.00	59	119253	253.959	ug/l	95
12) 1,1-Dichloroethene	3.11	96	437129	53.631	ug/l	96
13) Acrolein	3.02	56	118577	231.100	ug/l	92
14) Allyl chloride	3.57	41	812615	52.548	ug/l	96
15) Acrylonitrile	4.12	53	707034	265.175	ug/l	98
16) Acetone	3.20	43	539842	291.384	ug/l	98
17) Carbon Disulfide	3.35	76	1363560	51.503	ug/l	100
18) Methyl Acetate	3.59	43	227111	51.579	ug/l	99
19) Methyl tert-butyl Ether	4.16	73	1224292	54.165	ug/l	99
20) Methylene Chloride	3.76	84	913191	54.043	ug/l	97
21) trans-1,2-Dichloroethene	4.14	96	960163	54.156	ug/l	98
22) Diisopropyl ether	4.89	45	2951650	53.161	ug/l	98
23) Vinyl Acetate	4.84	43	7405524	269.203	ug/l	100
24) 1,1-Dichloroethane	4.79	63	1552337	53.818	ug/l	100
25) 2-Butanone	5.66	43	1046269	287.043	ug/l	99
26) 2,2-Dichloropropane	5.63	77	1285928	57.710	ug/l	98
27) cis-1,2-Dichloroethene	5.63	96	997089	55.311	ug/l	98
28) Bromochloromethane	5.96	49	618026	48.368	ug/l	99
29) Tetrahydrofuran	5.98	42	553364	268.093	ug/l	99
30) Chloroform	6.14	83	1612917	55.504	ug/l	98
31) Cyclohexane	6.40	56	1408147	57.679	ug/l	96
32) 1,1,1-Trichloroethane	6.32	97	1330144	55.679	ug/l	99
36) 1,1-Dichloropropene	6.55	75	1207706	54.067	ug/l	99
37) Ethyl Acetate	5.73	43	527308	54.433	ug/l	99
38) Carbon Tetrachloride	6.53	117	1099597	54.834	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121718\
 Data File : VD060591.D
 Acq On : 17 Dec 2018 10:58
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/18/2018 3:30:50 PM

Quant Time: Dec 18 13:01:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	1389250	54.557	ug/l	98
40) Benzene	6.83	78	3192649	55.926	ug/l	99
41) Methacrylonitrile	5.96	41	326110m	62.448	ug/l	
42) 1,2-Dichloroethane	6.92	62	789073	54.363	ug/l	100
43) Isopropyl Acetate	8.37	43	656940	54.936	ug/l	99
44) Trichloroethene	7.77	130	965576	56.597	ug/l	97
45) 1,2-Dichloropropane	8.13	63	778421	55.133	ug/l	100
46) Dibromomethane	8.24	93	443353	54.349	ug/l	99
47) Bromodichloromethane	8.52	83	1097703	56.712	ug/l	99
48) Methyl methacrylate	8.27	41	388853	54.956	ug/l	98
49) 1,4-Dioxane	8.25	88	70502	1099.386	ug/l	96
51) 4-Methyl-2-Pentanone	9.37	43	2088917	280.823	ug/l	99
52) Toluene	9.57	92	1957416	54.859	ug/l	100
53) t-1,3-Dichloropropene	9.95	75	919064	57.787	ug/l	100
54) cis-1,3-Dichloropropene	9.13	75	1183127	56.619	ug/l	100
55) 1,1,2-Trichloroethane	10.20	97	516870	52.018	ug/l	99
56) Ethyl methacrylate	10.05	69	519764	57.799	ug/l	95
57) 1,3-Dichloropropane	10.40	76	844135	54.956	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.95	63	1412906	262.587	ug/l	98
59) 2-Hexanone	10.51	43	1550813	298.269	ug/l	99
60) Dibromochloromethane	10.65	129	718288	57.818	ug/l	99
61) 1,2-Dibromoethane	10.77	107	548379	54.154	ug/l	98
64) Tetrachloroethene	10.27	164	878314	54.671	ug/l	97
65) Chlorobenzene	11.33	112	2107432	54.905	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.43	131	682152	55.139	ug/l	99
67) Ethyl Benzene	11.44	91	3489468	53.298	ug/l	98
68) m/p-Xylenes	11.58	106	2549958	105.279	ug/l	99
69) o-Xylene	11.95	106	1227030	53.158	ug/l	99
70) Styrene	11.97	104	1975250	53.312	ug/l	100
71) Bromoform	12.13	173	466447	56.513	ug/l	97
73) Isopropylbenzene	12.29	105	3362377	51.355	ug/l	99
74) N-amyl acetate	12.15	43	857480	54.190	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.57	83	564134	53.820	ug/l	100
76) 1,2,3-Trichloropropane	12.61	75	561241	53.536	ug/l	99
77) Bromobenzene	12.55	156	937778	54.490	ug/l	94
78) n-propylbenzene	12.65	91	4330908	52.328	ug/l	99
79) 2-Chlorotoluene	12.72	91	2381169	53.020	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	2606771	52.105	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.36	75	163749	56.004	ug/l	97
82) 4-Chlorotoluene	12.82	91	2582989	51.208	ug/l	92
83) tert-Butylbenzene	13.06	119	3098507	55.237	ug/l	94
84) 1,2,4-Trimethylbenzene	13.10	105	2718540	52.479	ug/l	99
85) sec-Butylbenzene	13.23	105	3775193	53.997	ug/l	97
86) p-Isopropyltoluene	13.35	119	2970863	53.604	ug/l	97
87) 1,3-Dichlorobenzene	13.32	146	1599376	51.327	ug/l	96
88) 1,4-Dichlorobenzene	13.40	146	1595129	52.182	ug/l	96
89) n-Butylbenzene	13.66	91	3078052	57.904	ug/l	99
90) Hexachloroethane	13.87	117	777319	55.939	ug/l	85
91) 1,2-Dichlorobenzene	13.68	146	1347383	52.911	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.24	75	70666	55.640	ug/l	78

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD121718\
Data File : VD060591.D
Acq On : 17 Dec 2018 10:58
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM

Quant Time: Dec 18 13:01:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	1095738	55.044	ug/l	97
94) Hexachlorobutadiene	14.89	225	833102	56.723	ug/l	98
95) Naphthalene	14.97	128	1317520	55.634	ug/l	99
96) 1,2,3-Trichlorobenzene	15.12	180	856338	53.988	ug/l	97

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

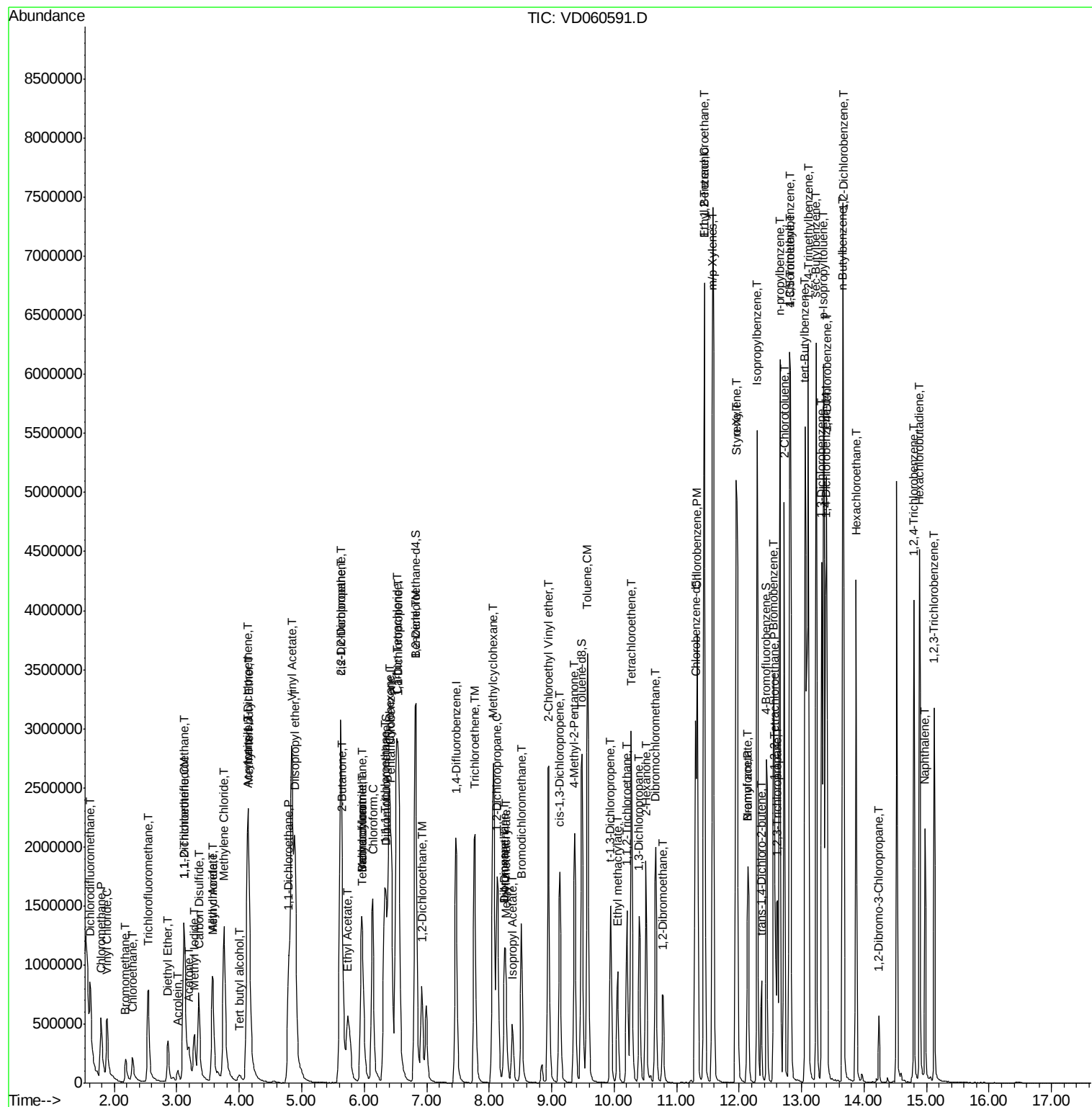
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD121718\
Data File : VD060591.D
Acq On : 17 Dec 2018 10:58
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

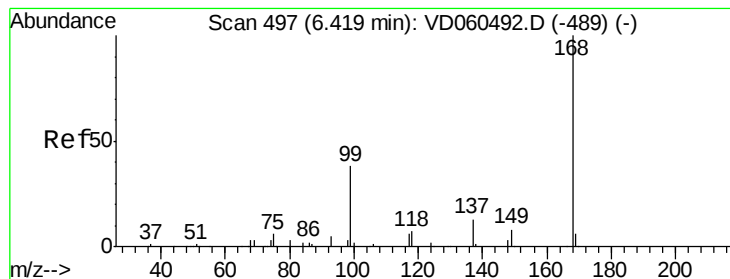
Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM

Quant Time: Dec 18 13:01:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1630681

Ion Ratio Lower Upper

168 100

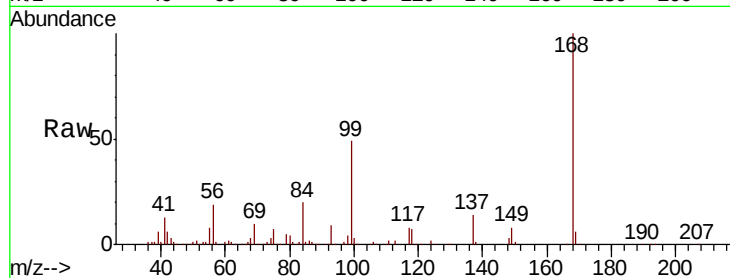
99 48.9 35.6 53.4

Manual Integrations

APPROVED

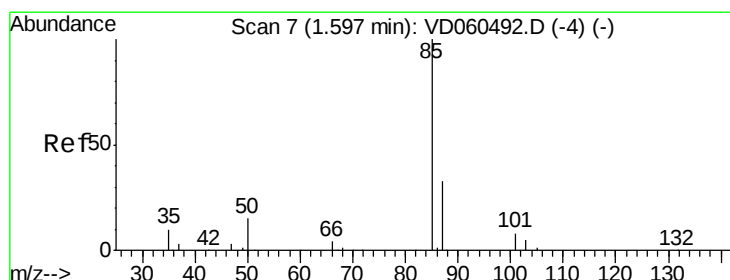
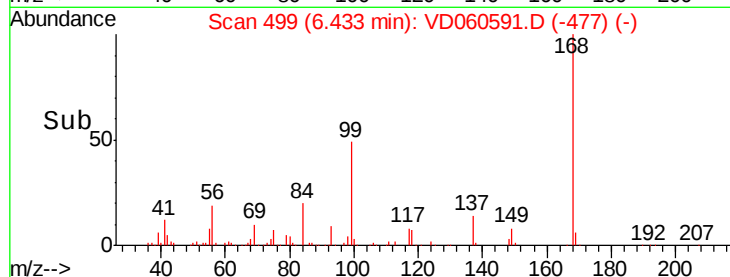
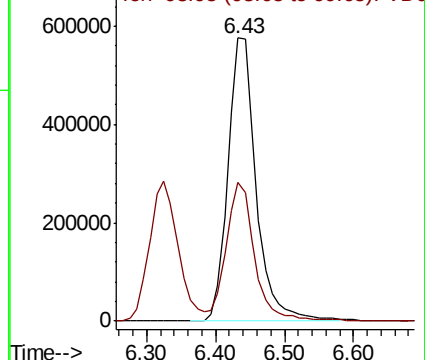
apatel

12/18/2018 3:30:50 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 52.186 ug/l

RT: 1.62 min Scan# 10

Delta R.T. 0.02 min

Lab File: VD060591.D

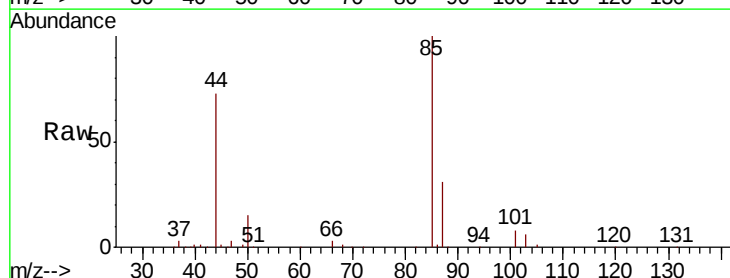
Acq: 17 Dec 2018 10:58

Tgt Ion: 85 Resp: 804747

Ion Ratio Lower Upper

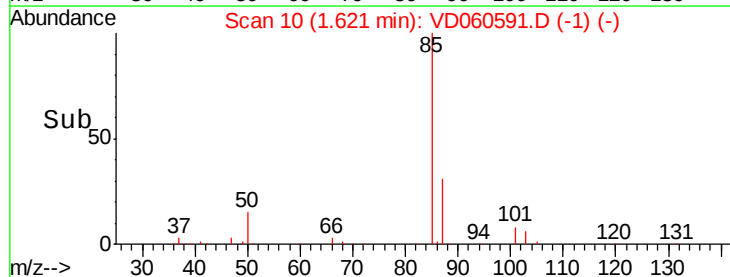
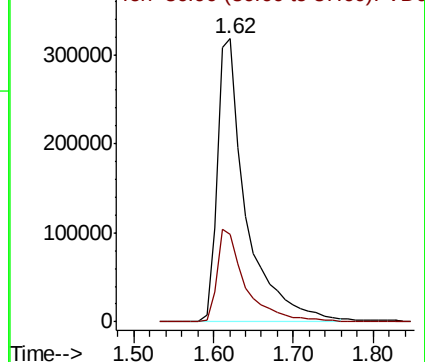
85 100

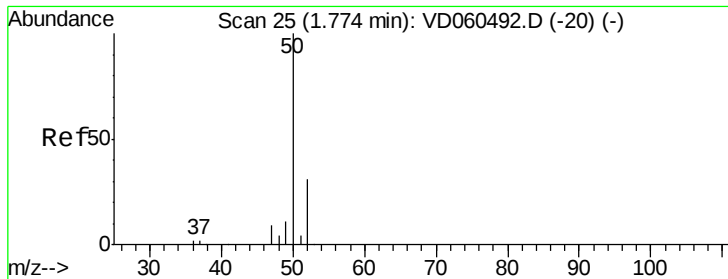
87 31.1 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 49.058 ug/l

RT: 1.79 min Scan# 27

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 821931

Ion Ratio Lower Upper

50 100

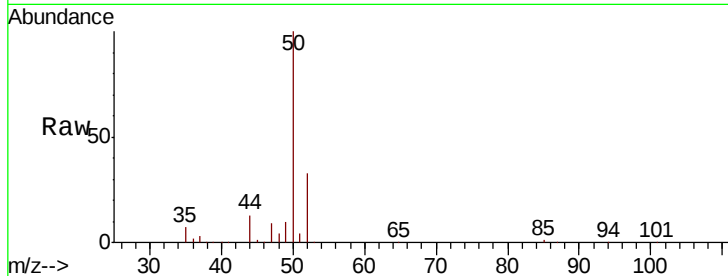
52 32.8 25.0 37.4

Manual Integrations

APPROVED

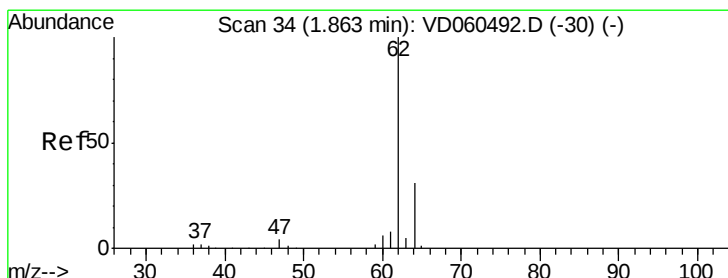
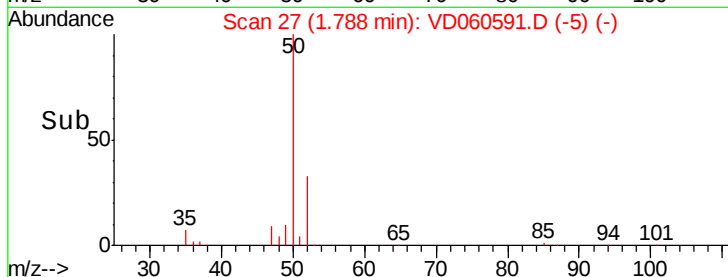
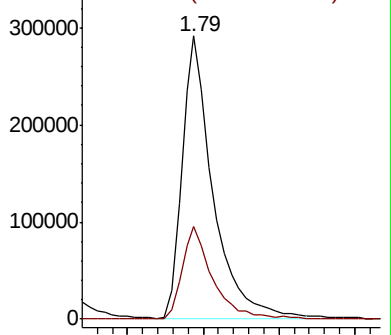
apatel

12/18/2018 3:30:50 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 52.182 ug/l

RT: 1.89 min Scan# 37

Delta R.T. 0.02 min

Lab File: VD060591.D

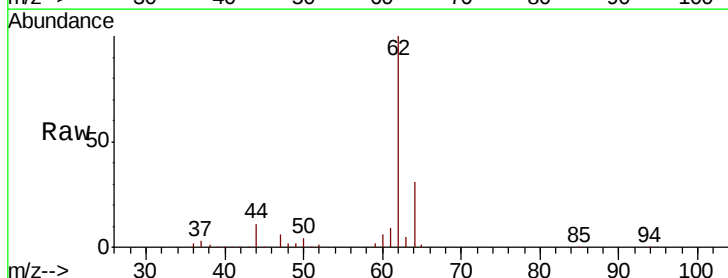
Acq: 17 Dec 2018 10:58

Tgt Ion: 62 Resp: 697755

Ion Ratio Lower Upper

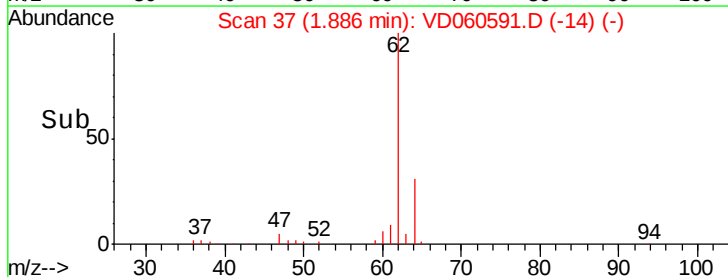
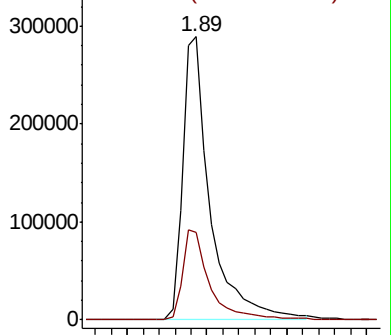
62 100

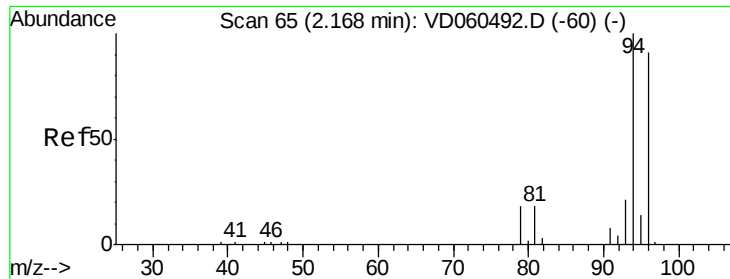
64 31.1 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 53.287 ug/l

RT: 2.18 min Scan# 67

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 178255

Ion Ratio Lower Upper

94 100

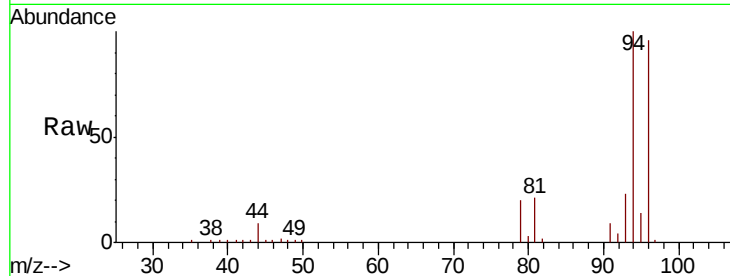
96 95.5 72.6 108.8

Manual Integrations

APPROVED

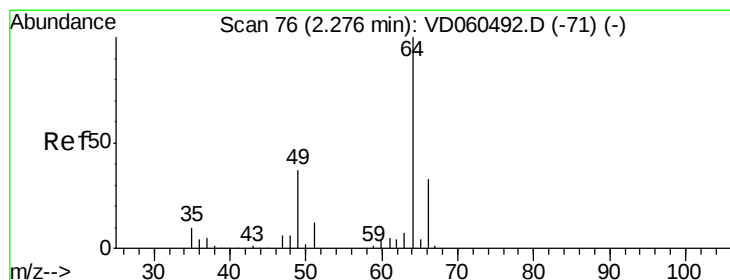
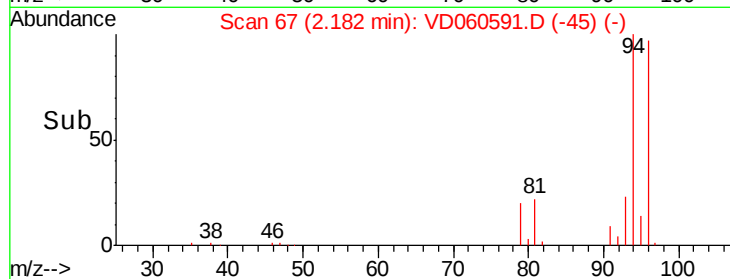
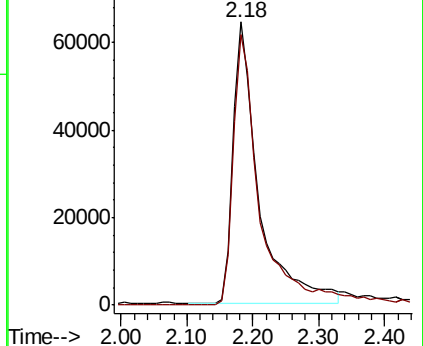
apatel

12/18/2018 3:30:50 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 52.986 ug/l

RT: 2.29 min Scan# 78

Delta R.T. 0.01 min

Lab File: VD060591.D

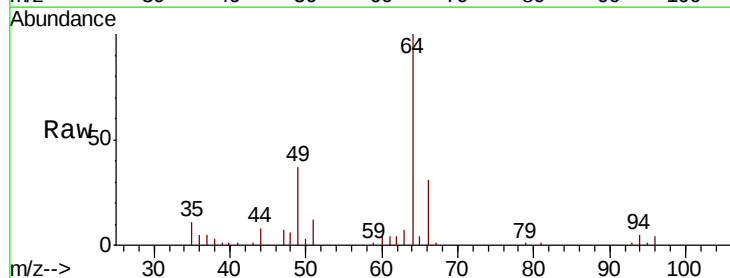
Acq: 17 Dec 2018 10:58

Tgt Ion: 64 Resp: 226278

Ion Ratio Lower Upper

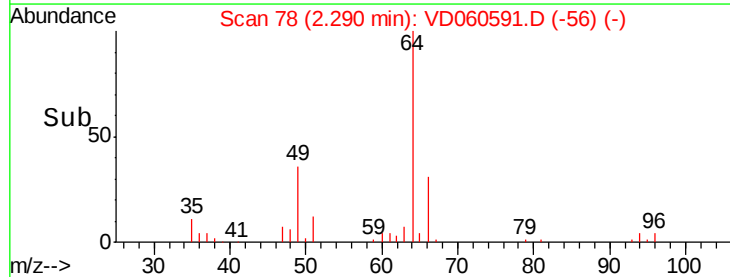
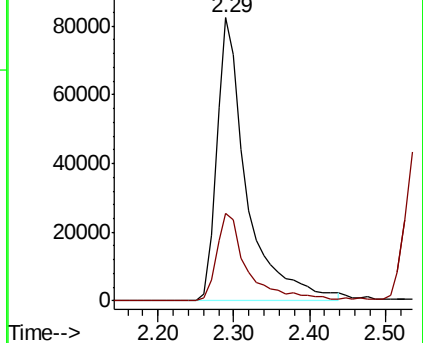
64 100

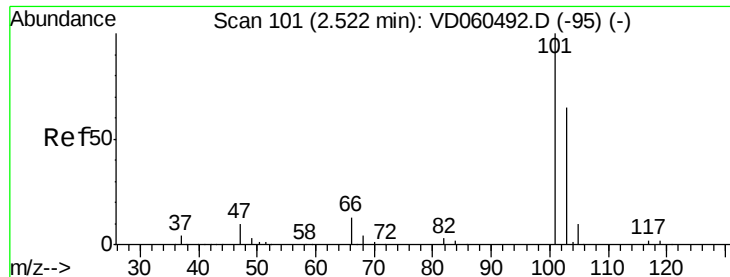
66 31.0 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

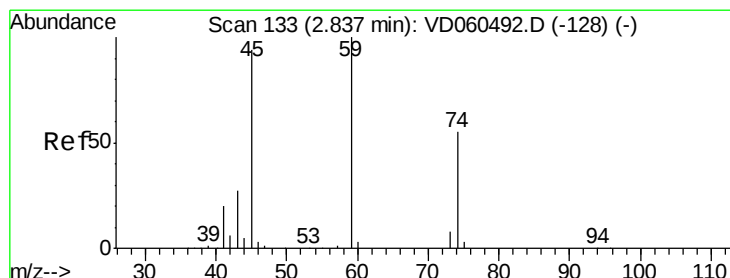
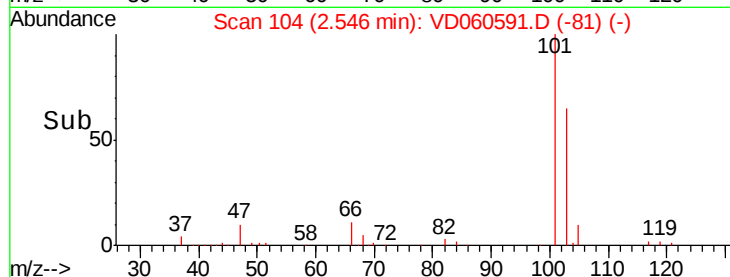
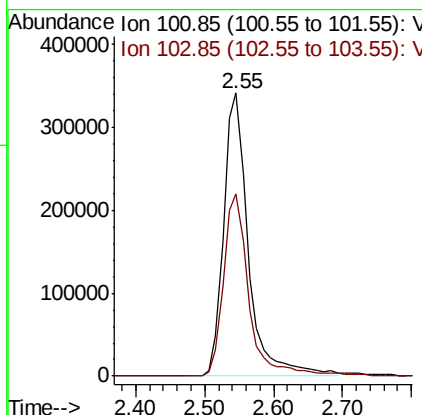
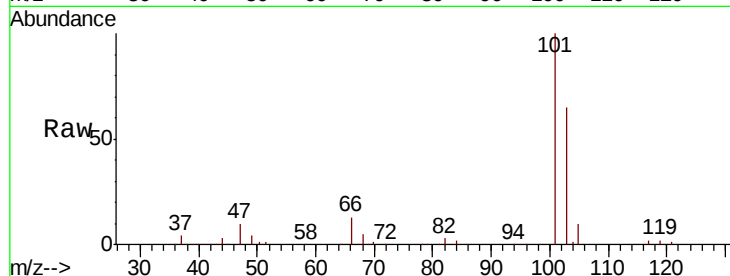
Trichlorofluoromethane
 Concen: 55.243 ug/l
 RT: 2.55 min Scan# 104
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 852939
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.8

Manual Integrations
 APPROVED

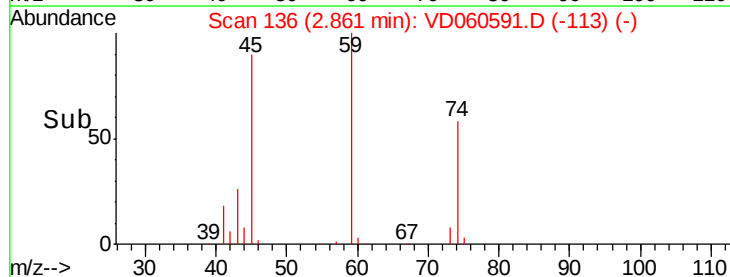
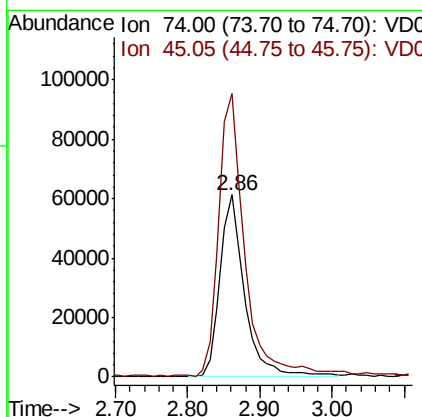
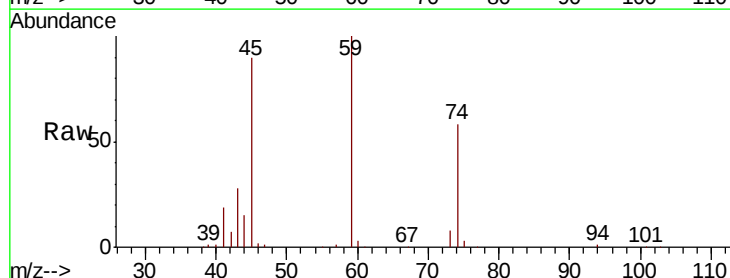
apatel
 12/18/2018 3:30:50 PM

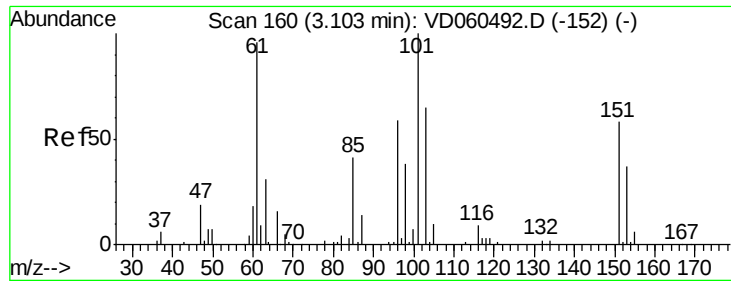


#8

Diethyl Ether
 Concen: 54.433 ug/l
 RT: 2.86 min Scan# 136
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion: 74 Resp: 145164
 Ion Ratio Lower Upper
 74 100
 45 155.4 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.895 ug/l

RT: 3.13 min Scan# 163

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

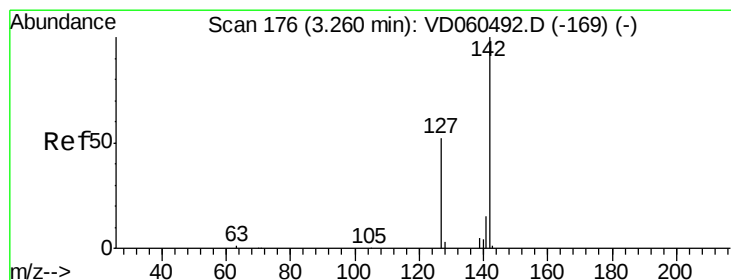
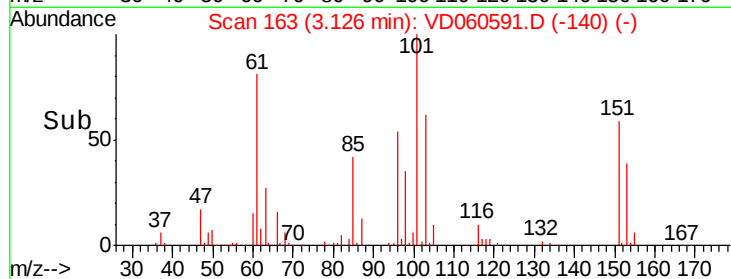
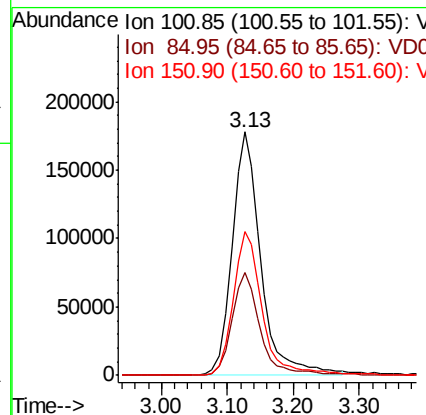
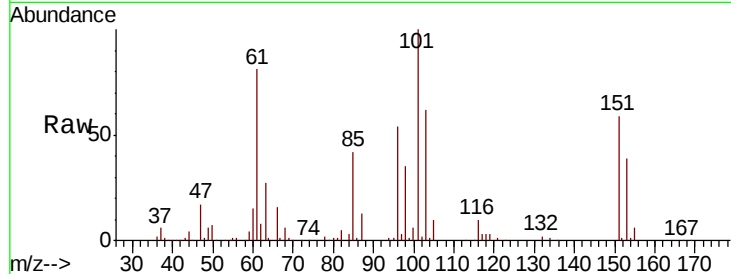
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	539917
Ion Ratio	Lower	Upper	
101	100		
85	42.3	32.7	49.1
151	58.9	46.6	69.8

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



#10

Methyl Iodide

Concen: 52.568 ug/l

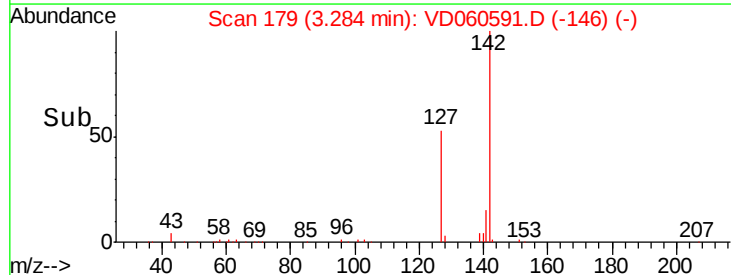
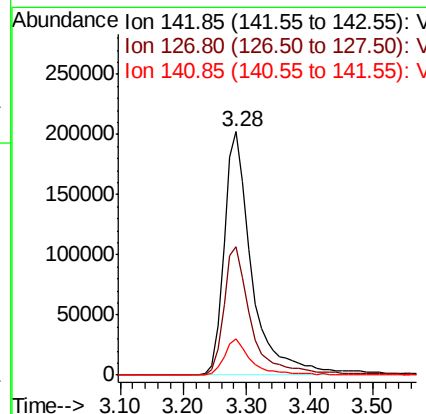
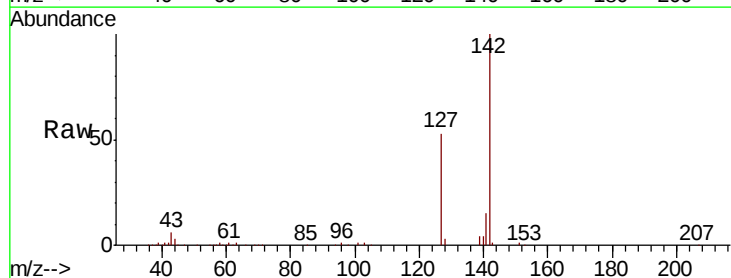
RT: 3.28 min Scan# 179

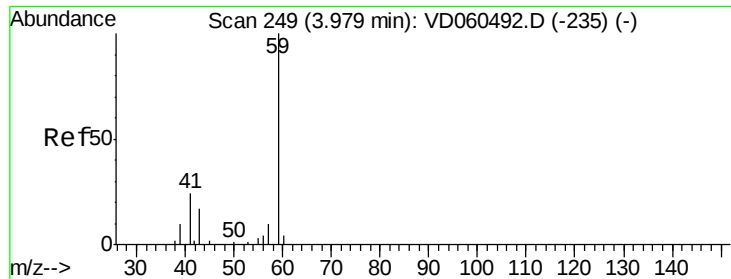
Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:	142	Resp:	615574
Ion Ratio	Lower	Upper	
142	100		
127	52.8	41.2	61.8
141	14.7	11.9	17.9





#11

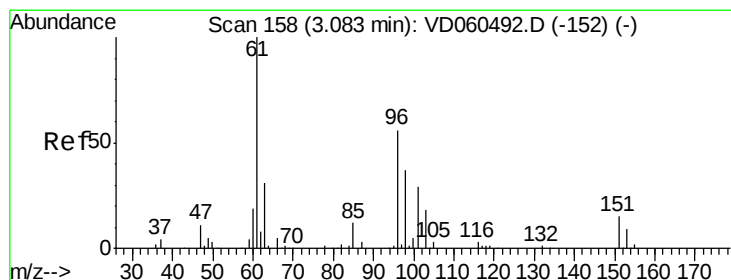
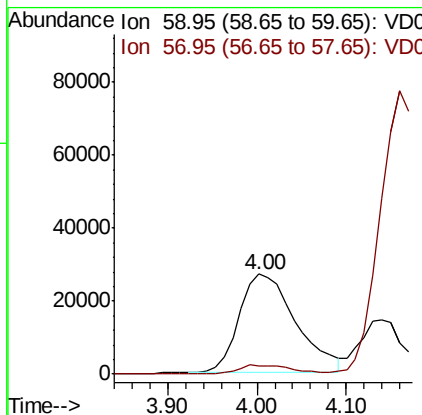
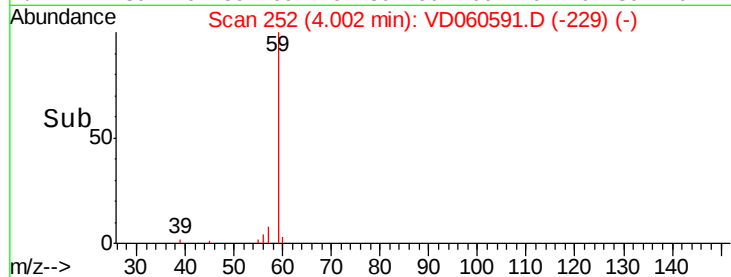
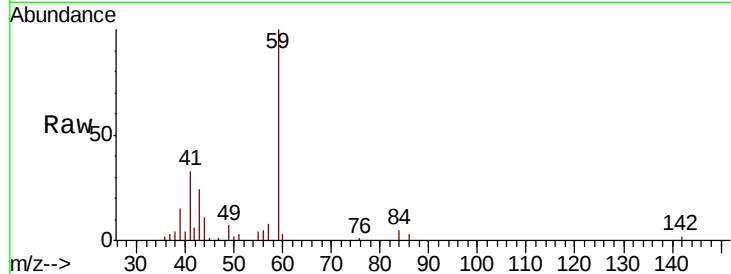
Tert butyl alcohol
Concen: 253.959 ug/l
RT: 4.00 min Scan# 252
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 119253
Ion Ratio Lower Upper
59 100
57 8.4 8.1 12.1

Manual Integrations
APPROVED

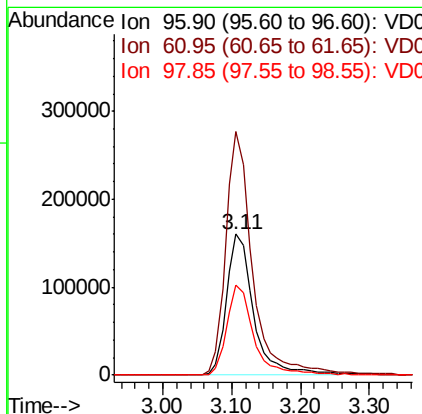
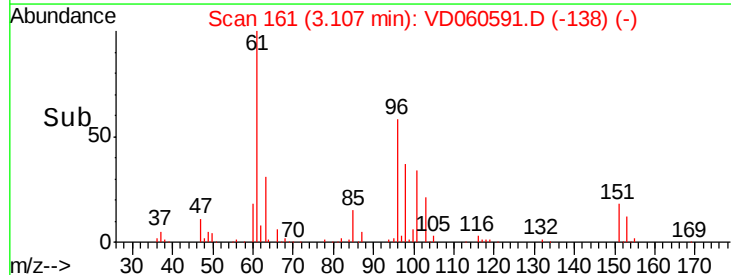
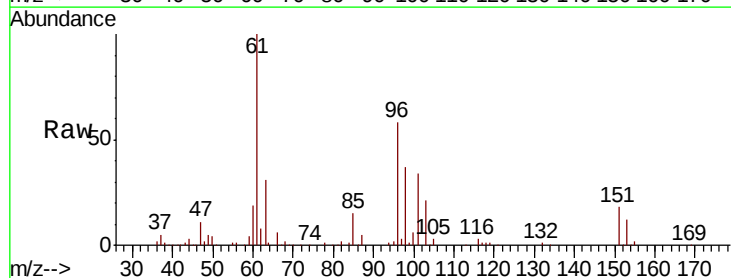
apatel
12/18/2018 3:30:50 PM

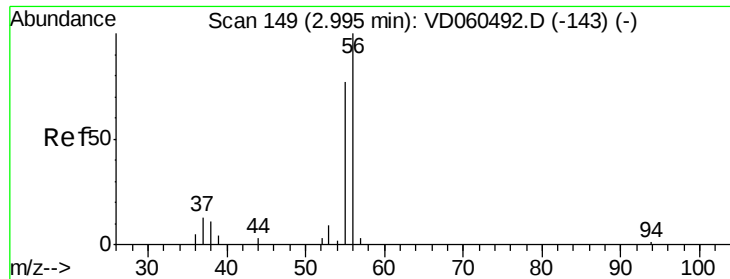


#12

1,1-Dichloroethene
Concen: 53.631 ug/l
RT: 3.11 min Scan# 161
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 96 Resp: 437129
Ion Ratio Lower Upper
96 100
61 173.1 143.0 214.4
98 63.9 53.4 80.0





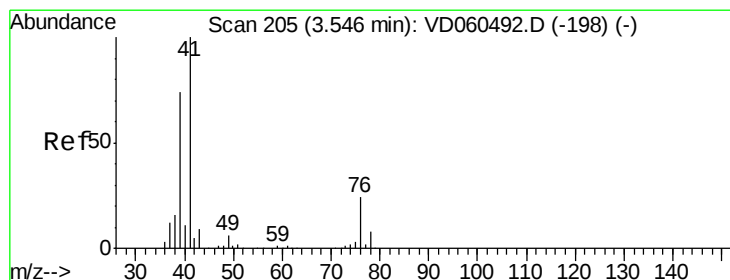
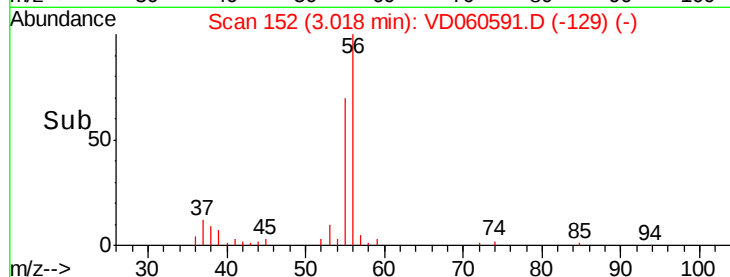
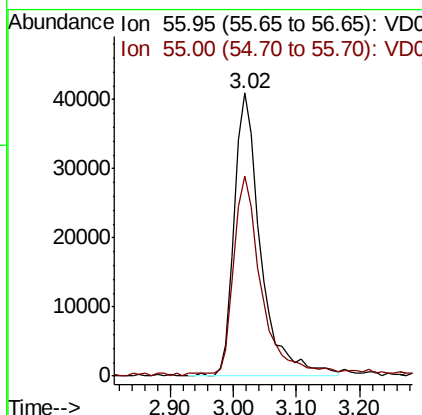
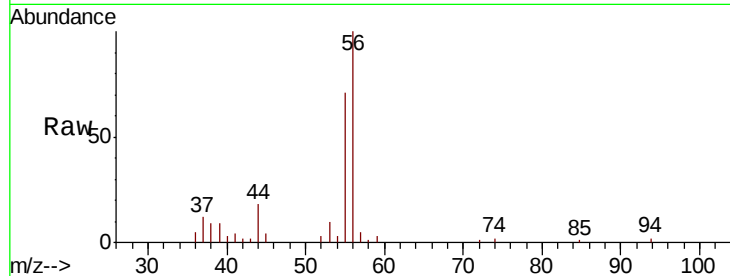
#13
Acrolein
Concen: 231.100 ug/l
RT: 3.02 min Scan# 152
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.6	62.0	93.0

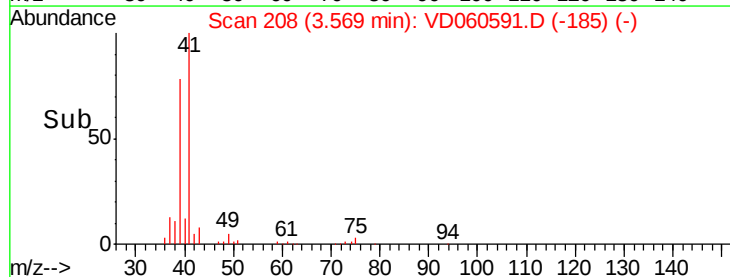
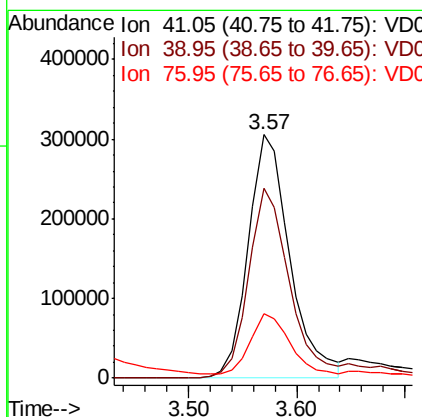
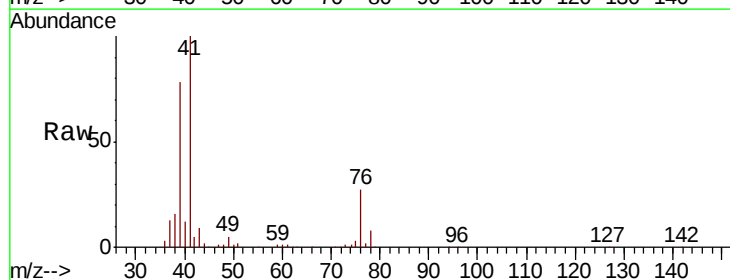
Manual Integrations
APPROVED

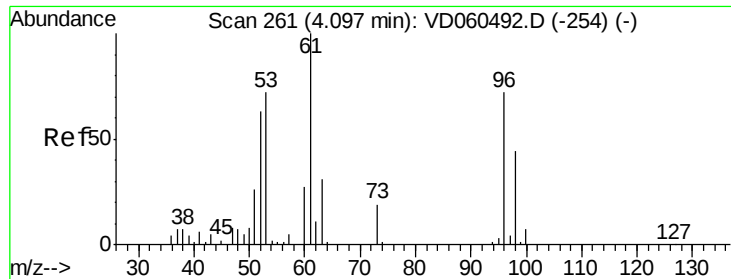
apatel
12/18/2018 3:30:50 PM



#14
Allyl chloride
Concen: 52.548 ug/l
RT: 3.57 min Scan# 208
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
41	100		
39	78.2	59.3	88.9
76	26.7	21.0	31.6





#15

Acrylonitrile

Concen: 265.175 ug/l

RT: 4.12 min Scan# 264

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

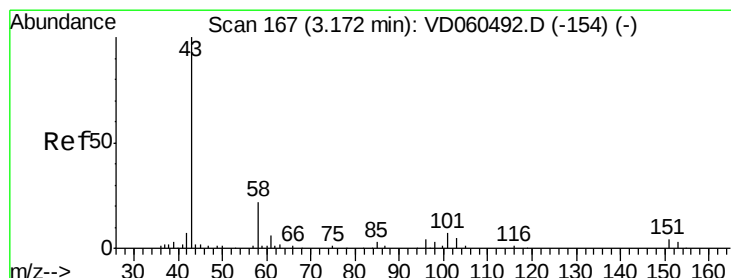
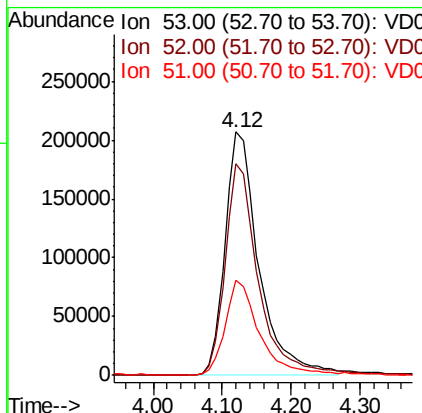
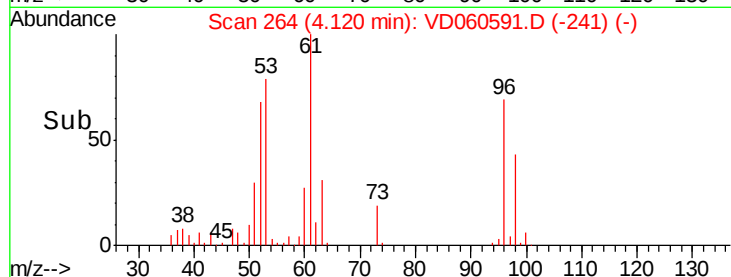
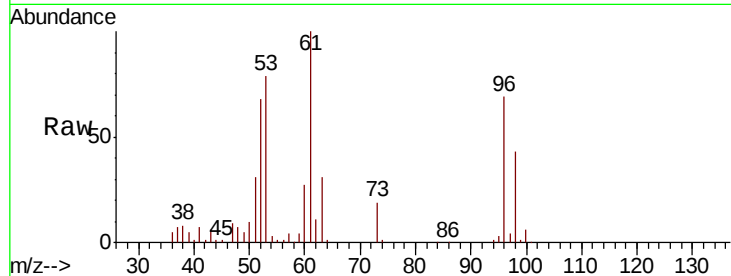
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	707034
Ion Ratio	Lower	Upper	
53	100		
52	86.7	70.0	105.0
51	39.0	28.8	43.2

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



#16

Acetone

Concen: 291.384 ug/l

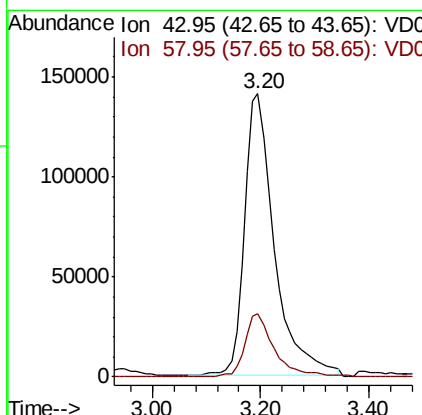
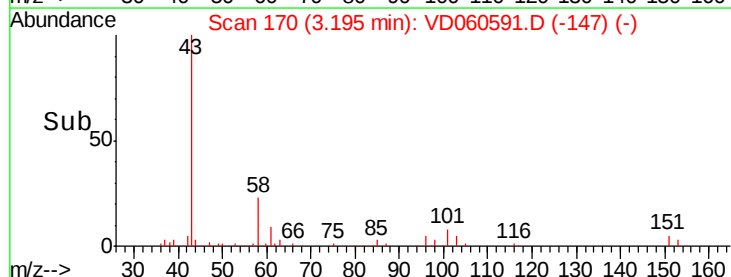
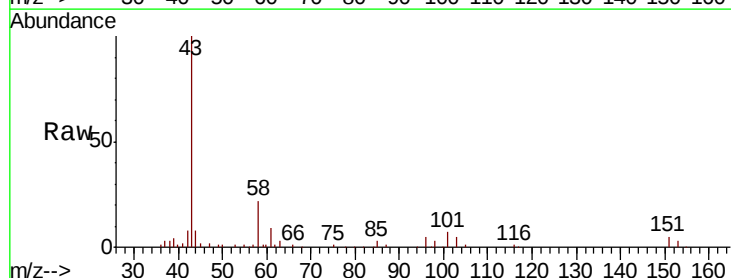
RT: 3.20 min Scan# 170

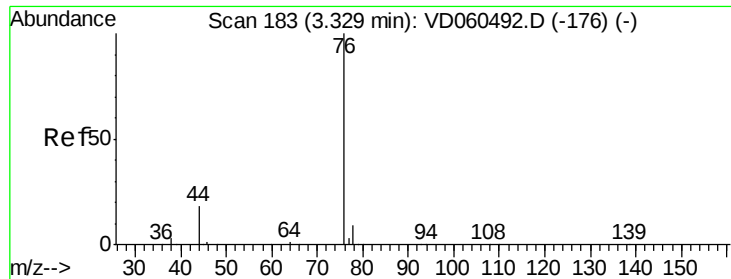
Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:	43	Resp:	539842
Ion Ratio	Lower	Upper	
43	100		
58	22.3	17.3	25.9





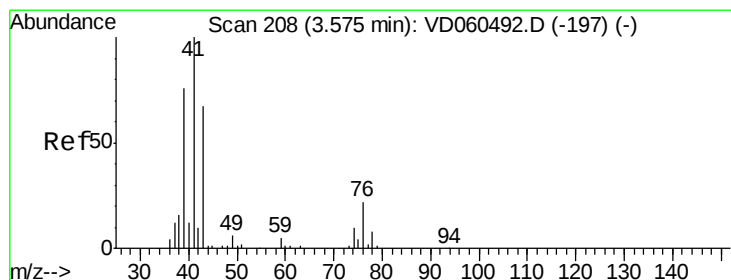
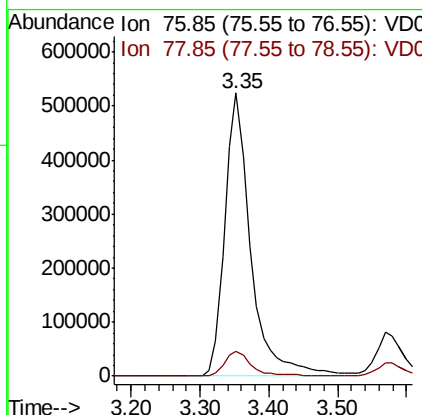
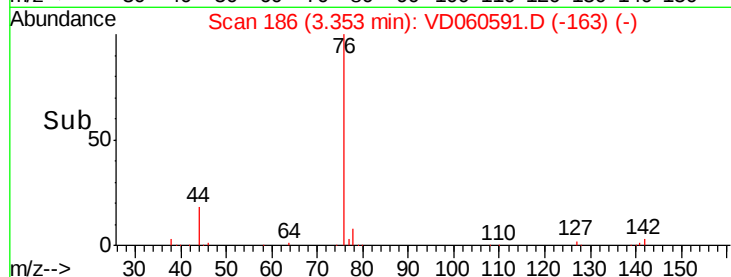
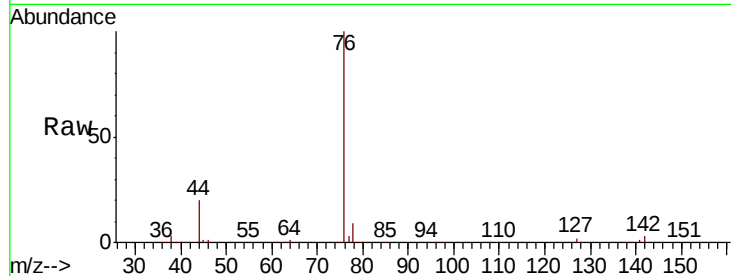
#17
Carbon Disulfide
Concen: 51.503 ug/l
RT: 3.35 min Scan# 186
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1363560
Ion Ratio Lower Upper
76 100
78 8.9 7.0 10.6

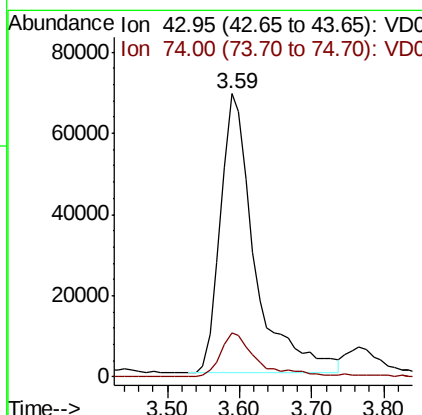
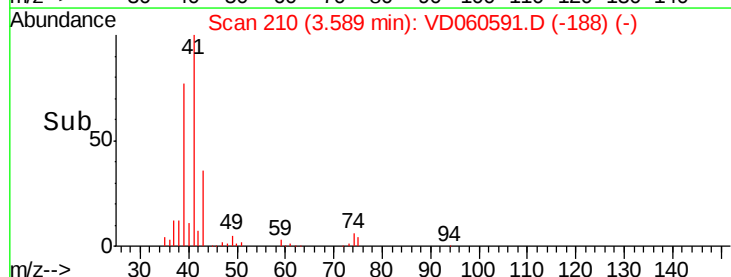
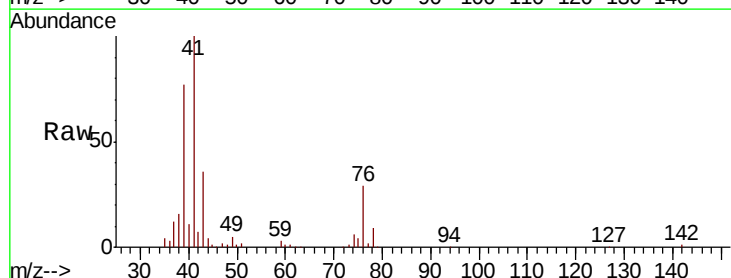
Manual Integrations
APPROVED

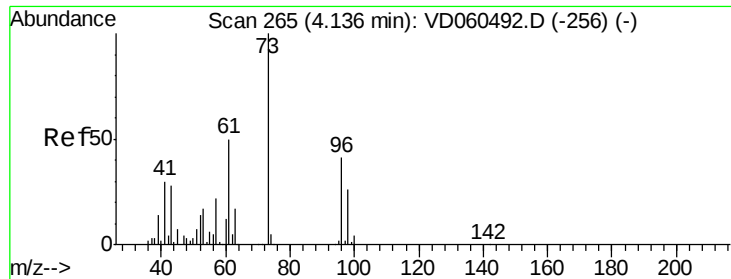
apatel
12/18/2018 3:30:50 PM



#18
Methyl Acetate
Concen: 51.579 ug/l
RT: 3.59 min Scan# 210
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 43 Resp: 227111
Ion Ratio Lower Upper
43 100
74 15.5 12.0 18.0





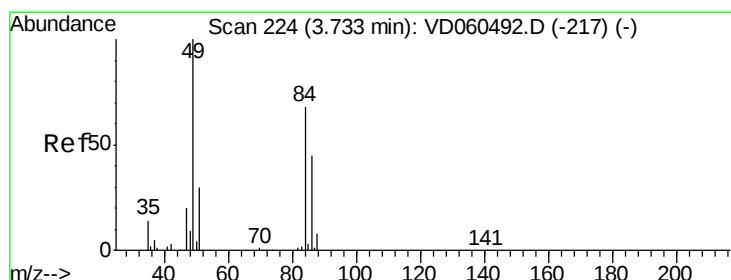
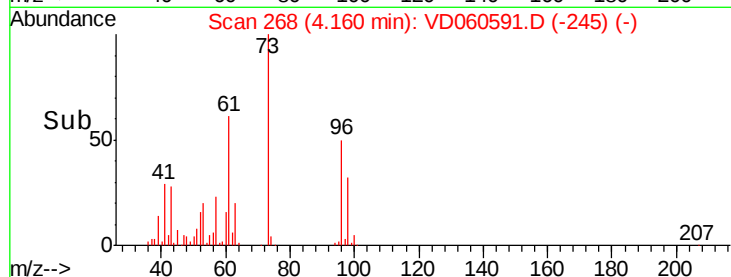
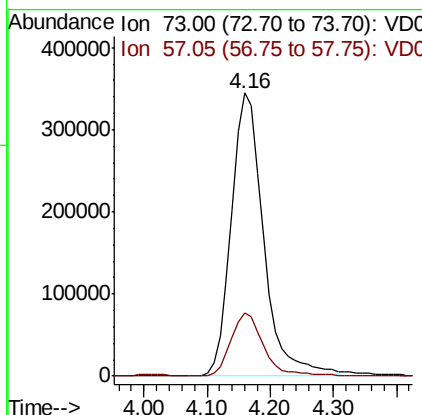
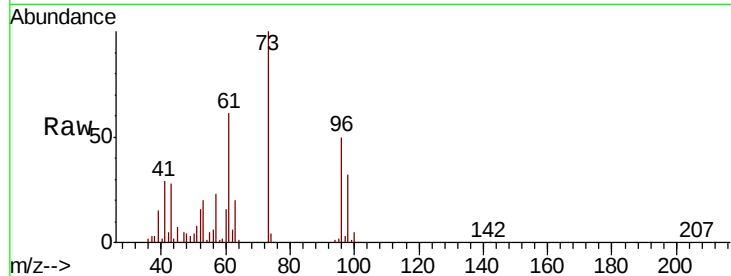
#19
Methyl tert-butyl Ether
Concen: 54.165 ug/l
RT: 4.16 min Scan# 268
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1224292
Ion Ratio Lower Upper
73 100
57 22.5 17.8 26.6

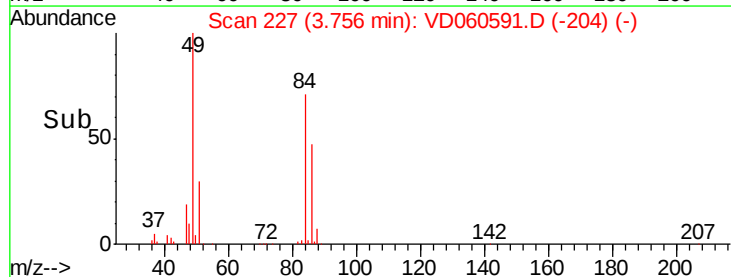
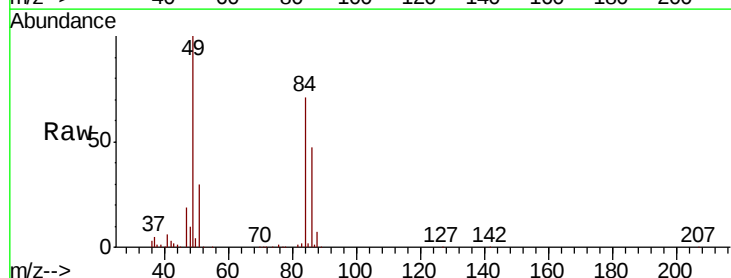
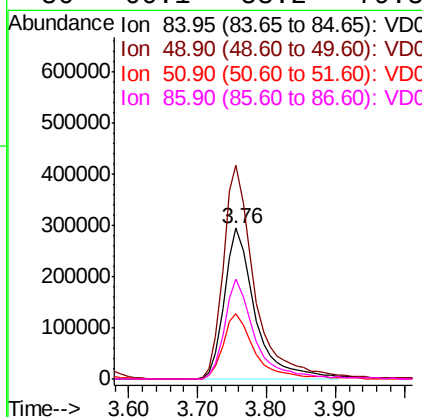
Manual Integrations
APPROVED

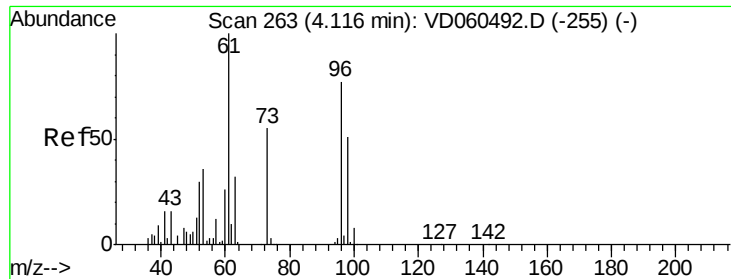
apatel
12/18/2018 3:30:50 PM



#20
Methylene Chloride
Concen: 54.043 ug/l
RT: 3.76 min Scan# 227
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 84 Resp: 913191
Ion Ratio Lower Upper
84 100
49 141.7 117.2 175.8
51 43.0 35.3 52.9
86 66.1 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 54.156 ug/l

RT: 4.14 min Scan# 266

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

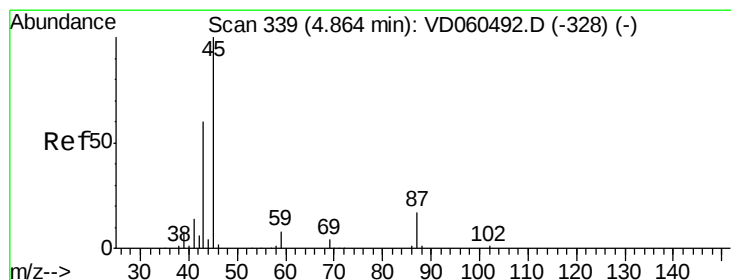
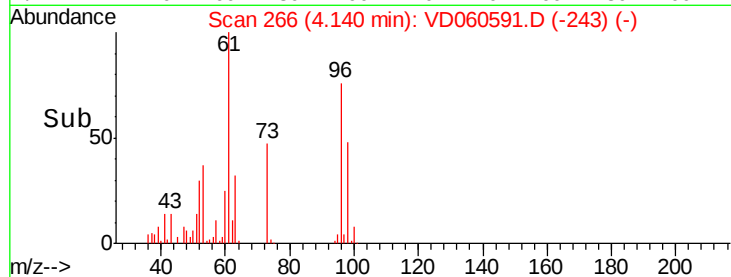
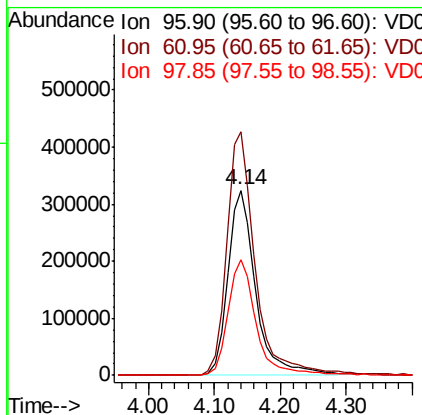
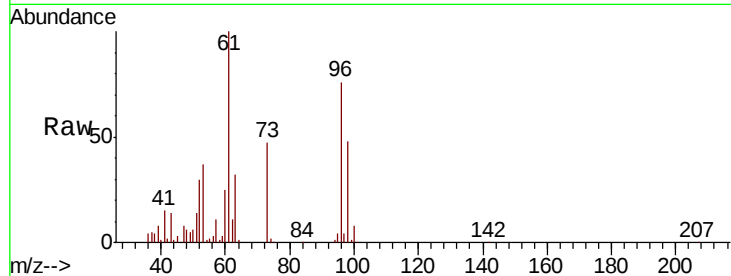
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	960163
Ion	Ratio	Lower	Upper
96	100		
61	131.5	104.2	156.4
98	62.7	52.8	79.2

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



#22

Diisopropyl ether

Concen: 53.161 ug/l

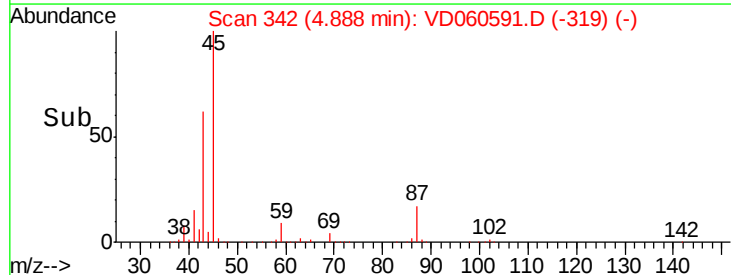
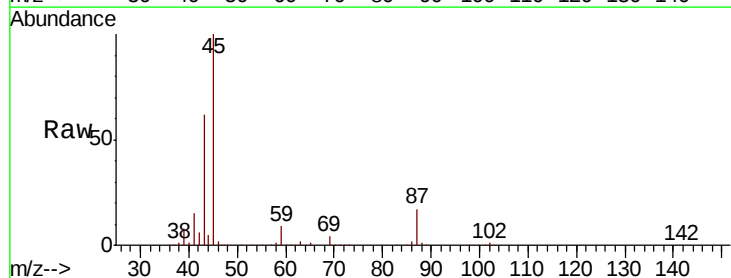
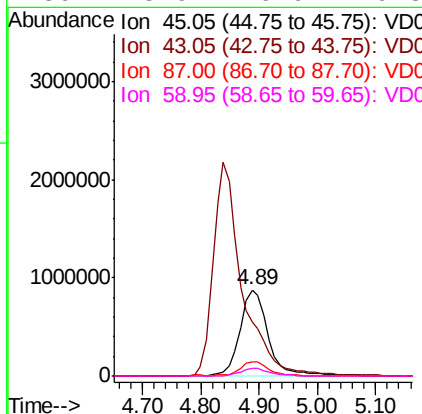
RT: 4.89 min Scan# 342

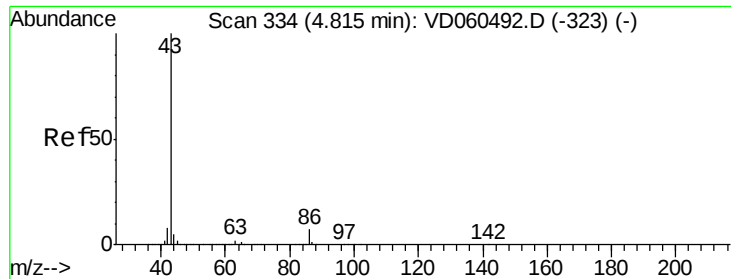
Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:	45	Resp:	2951650
Ion	Ratio	Lower	Upper
45	100		
43	62.3	48.6	73.0
87	17.1	14.0	21.0
59	8.9	6.9	10.3





#23

Vinyl Acetate

Concen: 269.203 ug/l

RT: 4.84 min Scan# 337

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 7405524

Ion Ratio Lower Upper

43 100

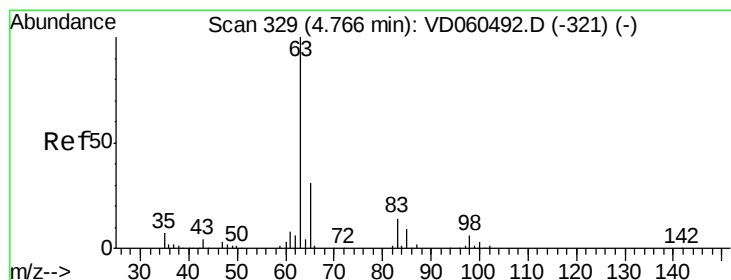
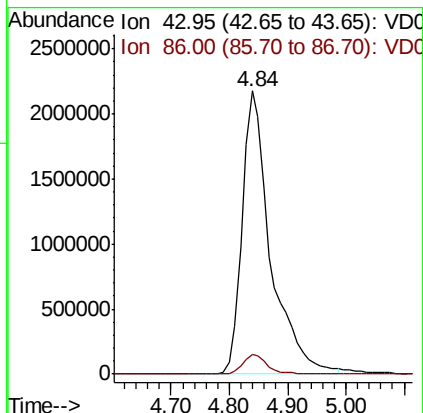
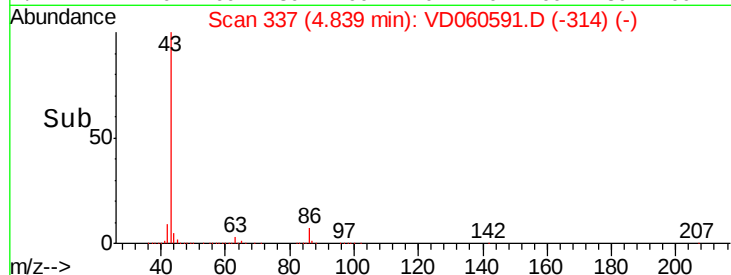
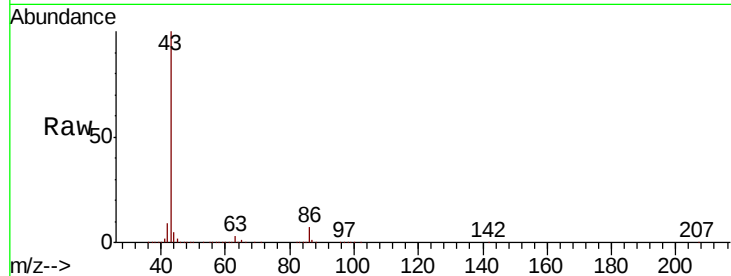
86 6.8 5.5 8.3

Manual Integrations

APPROVED

apatel

12/18/2018 3:30:50 PM



#24

1,1-Dichloroethane

Concen: 53.818 ug/l

RT: 4.79 min Scan# 332

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

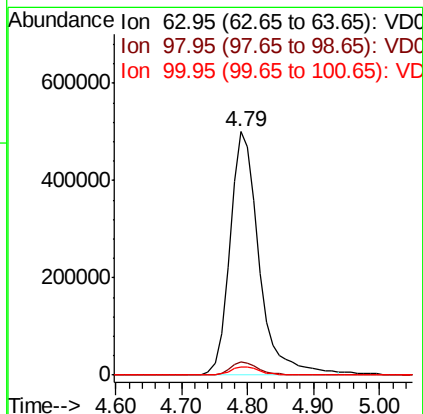
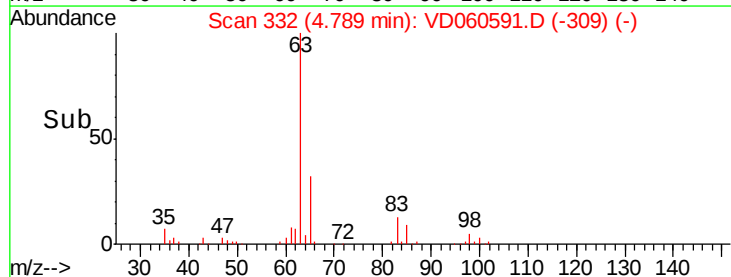
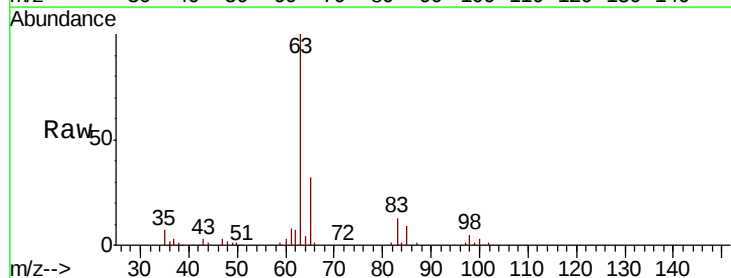
Tgt Ion: 63 Resp: 1552337

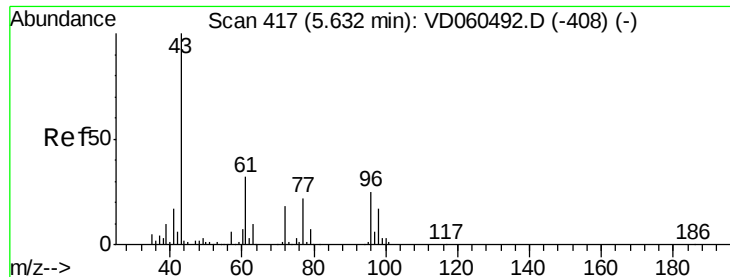
Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.4 1.7 5.1





#25

2-Butanone

Concen: 287.043 ug/l

RT: 5.66 min Scan# 420

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1046269

Ion Ratio Lower Upper

43 100

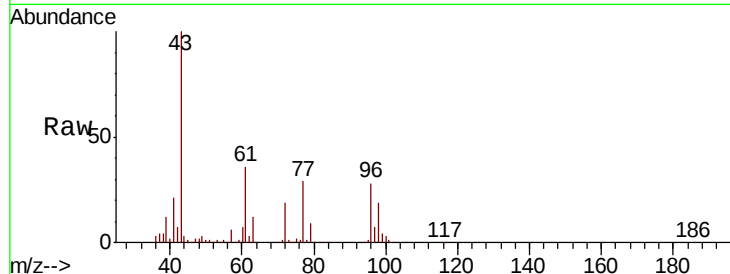
72 18.5 14.6 21.8

Manual Integrations

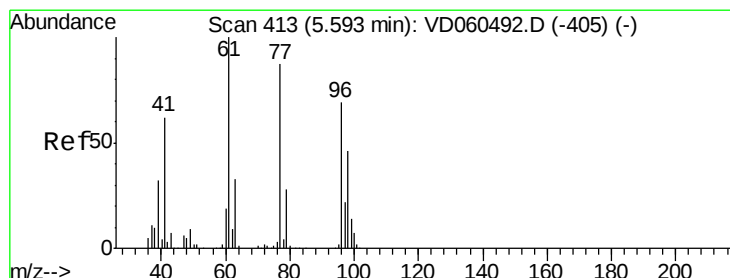
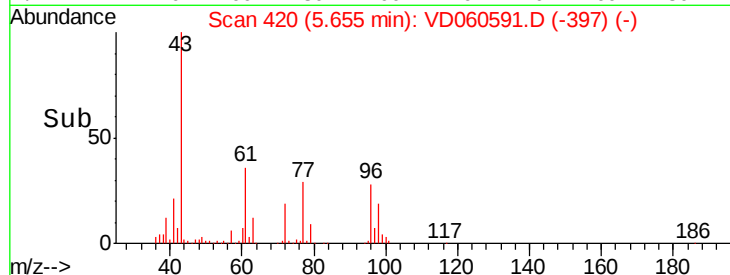
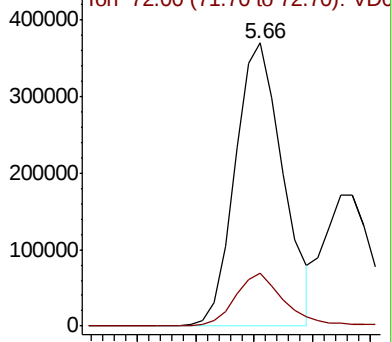
APPROVED

apatel

12/18/2018 3:30:50 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC



#26

2,2-Dichloropropane

Concen: 57.710 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.03 min

Lab File: VD060591.D

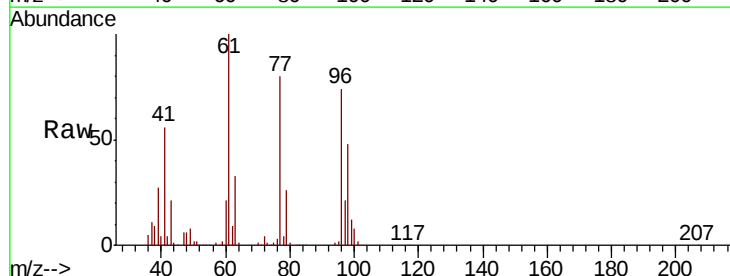
Acq: 17 Dec 2018 10:58

Tgt Ion: 77 Resp: 1285928

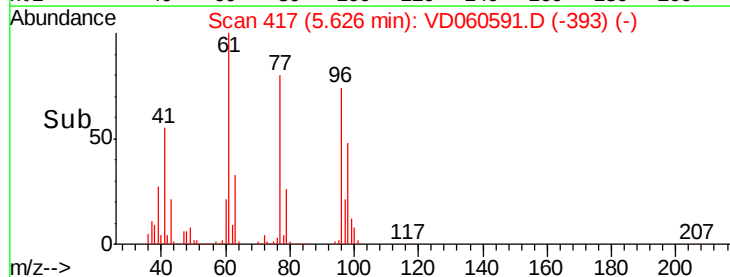
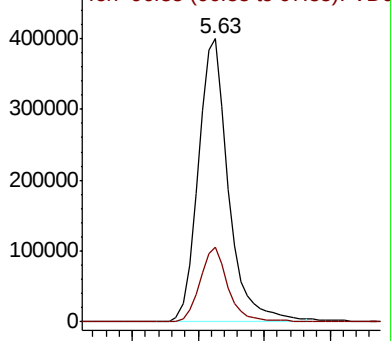
Ion Ratio Lower Upper

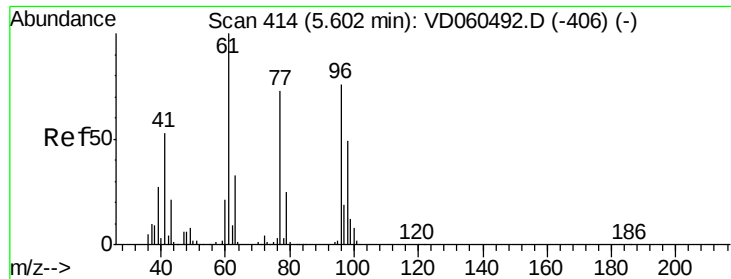
77 100

97 26.2 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC





#27

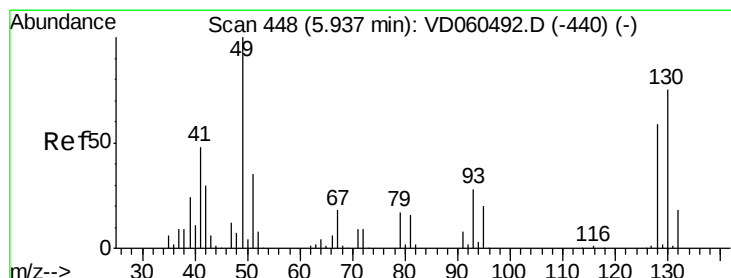
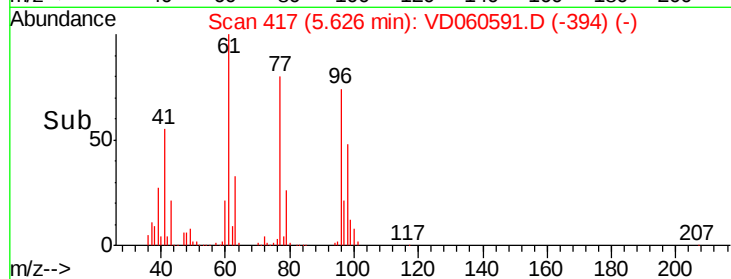
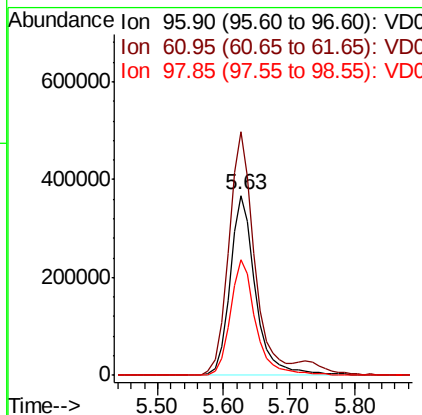
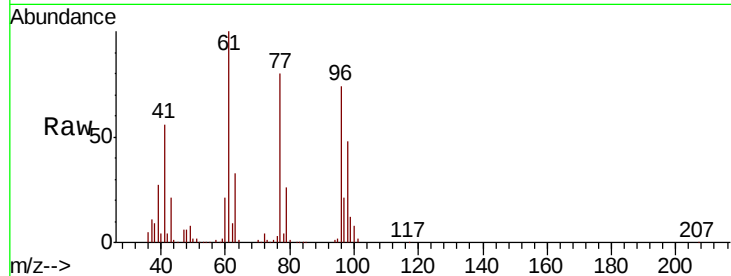
cis-1,2-Dichloroethene
Concen: 55.311 ug/l
RT: 5.63 min Scan# 417
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	135.2	0.0	263.6	
98	64.6	0.0	128.2	

Manual Integrations
APPROVED

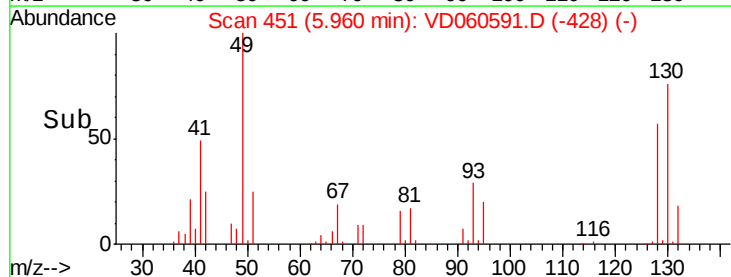
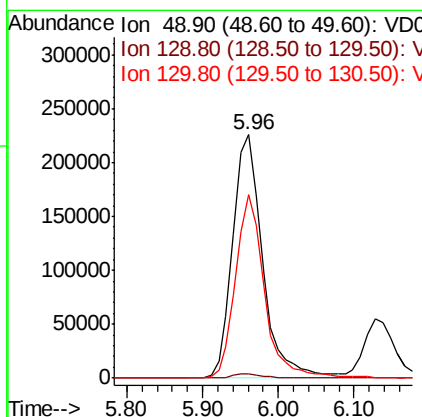
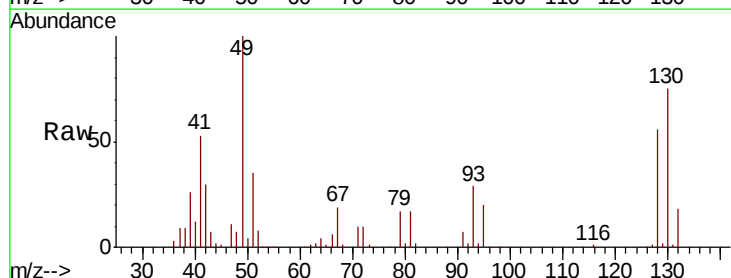
apatel
12/18/2018 3:30:50 PM

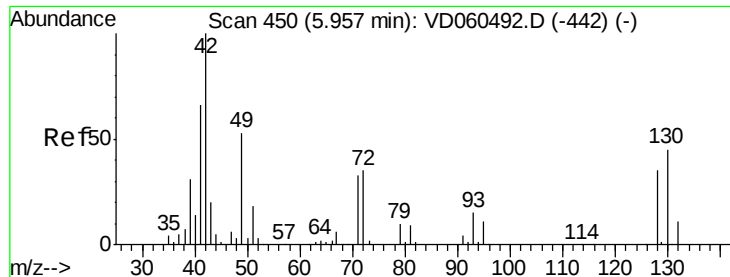


#28

Bromochloromethane
Concen: 48.368 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	3.4	
130	75.5	59.8	89.6	





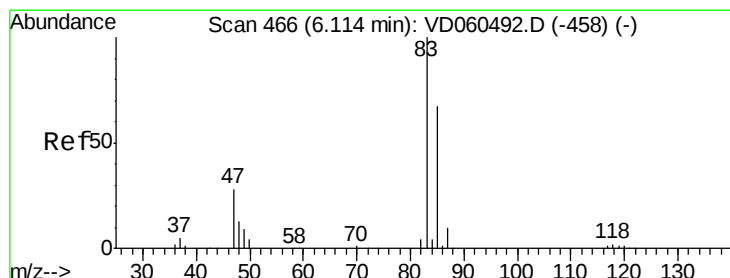
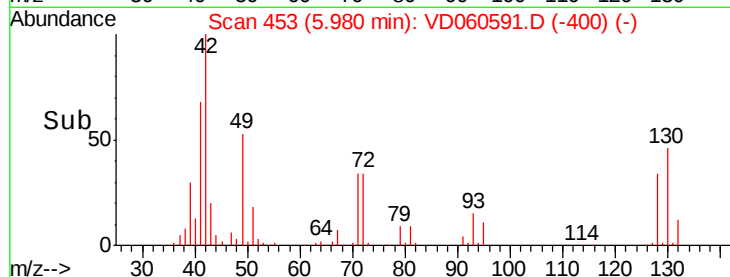
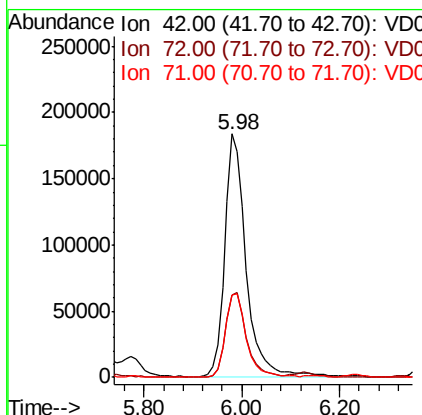
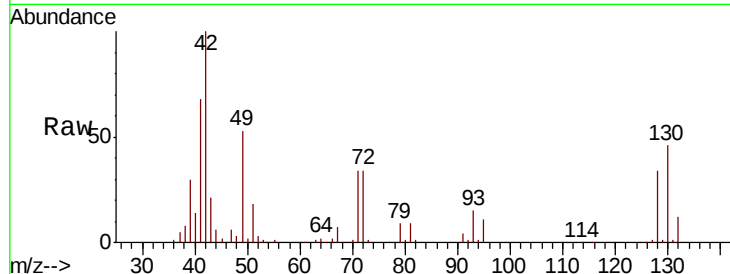
#29
Tetrahydrofuran
Concen: 268.093 ug/l
RT: 5.98 min Scan# 453
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.5	28.0	42.0
71	34.4	27.2	40.8

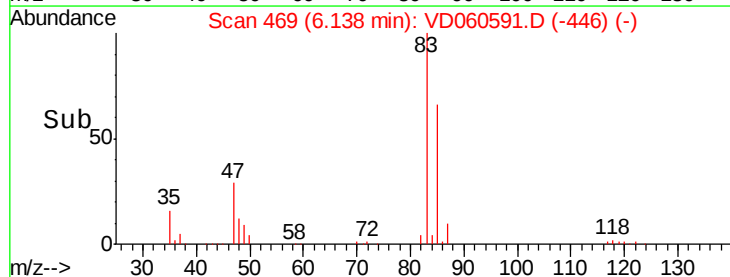
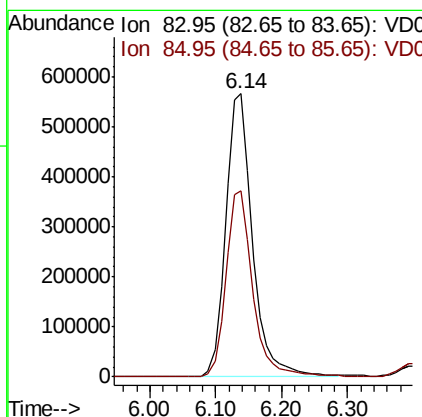
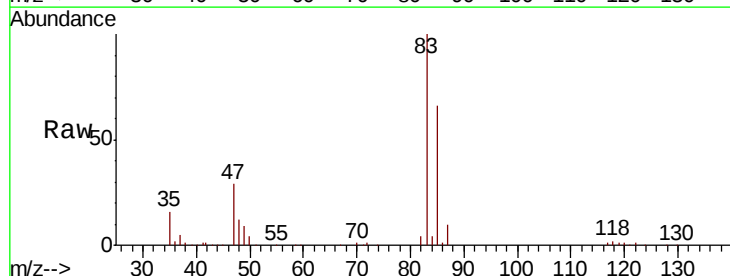
Manual Integrations
APPROVED

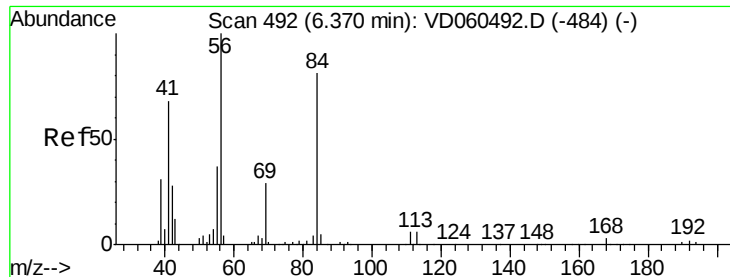
apatel
12/18/2018 3:30:50 PM



#30
Chloroform
Concen: 55.504 ug/l
RT: 6.14 min Scan# 469
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	53.4	80.2





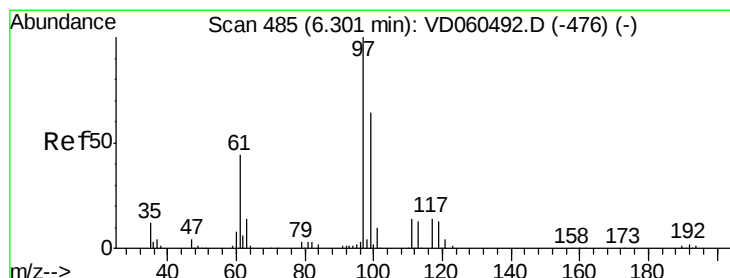
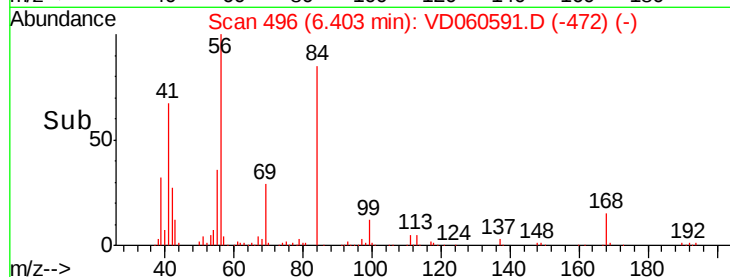
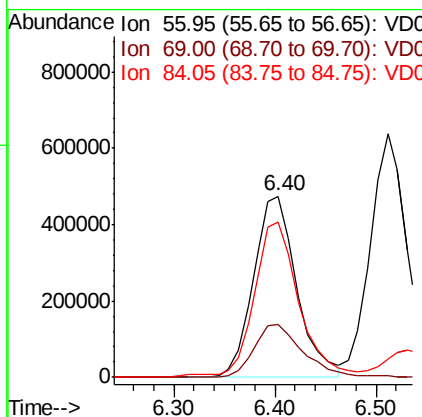
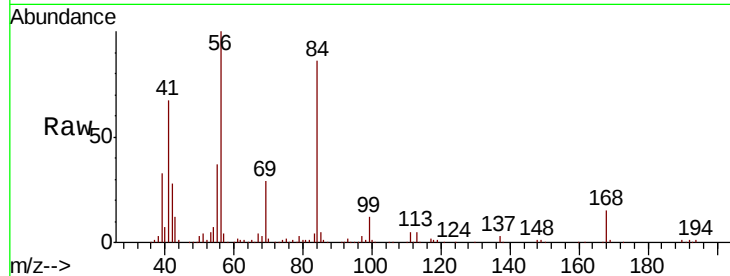
#31
Cyclohexane
Concen: 57.679 ug/l
RT: 6.40 min Scan# 496
Delta R.T. 0.03 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1408147
Ion Ratio Lower Upper
56 100
69 29.2 22.8 34.2
84 85.6 65.1 97.7

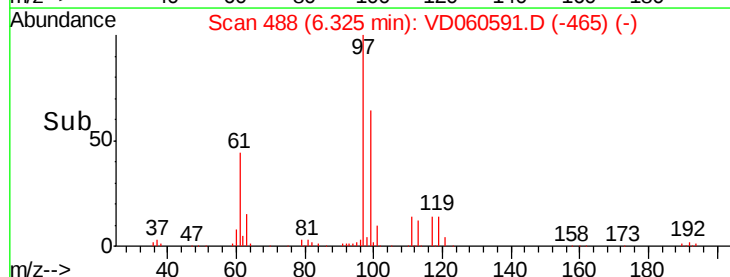
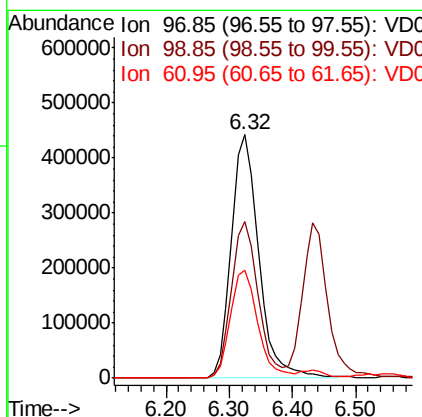
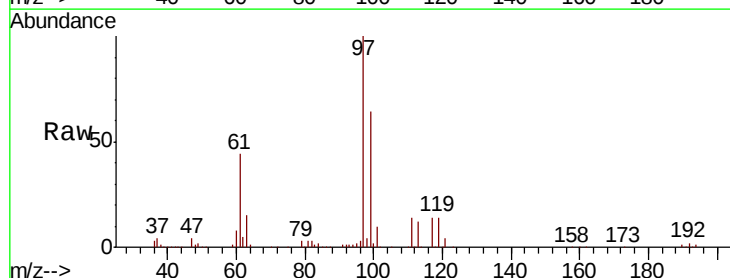
Manual Integrations
APPROVED

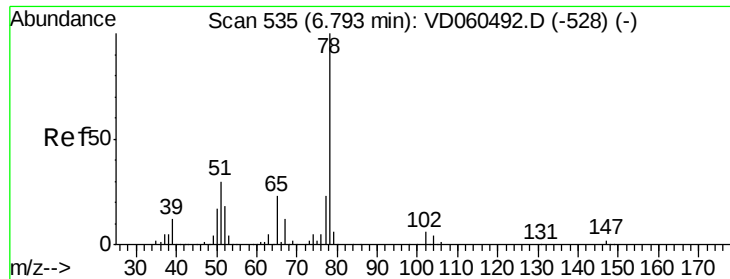
apatel
12/18/2018 3:30:50 PM



#32
1,1,1-Trichloroethane
Concen: 55.679 ug/l
RT: 6.32 min Scan# 488
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 97 Resp: 1330144
Ion Ratio Lower Upper
97 100
99 64.5 51.0 76.4
61 44.4 35.3 52.9





#33

1,2-Dichloroethane-d4

Concen: 55.679 ug/l

RT: 6.82 min Scan# 538

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 559942

Ion Ratio Lower Upper

65 100

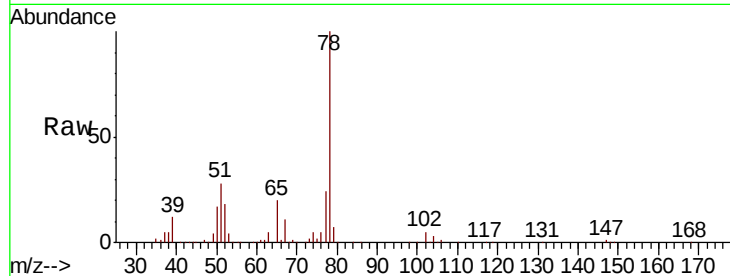
67 52.4 0.0 106.8

Manual Integrations

APPROVED

apatel

12/18/2018 3:30:50 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

250000

200000

150000

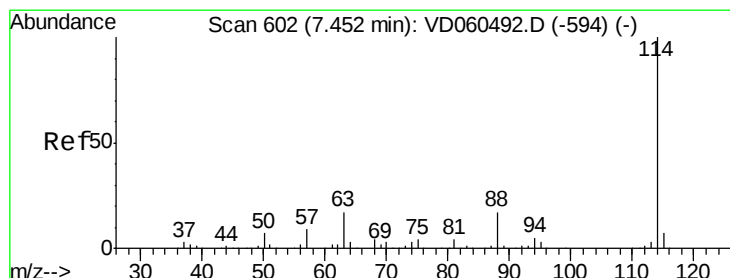
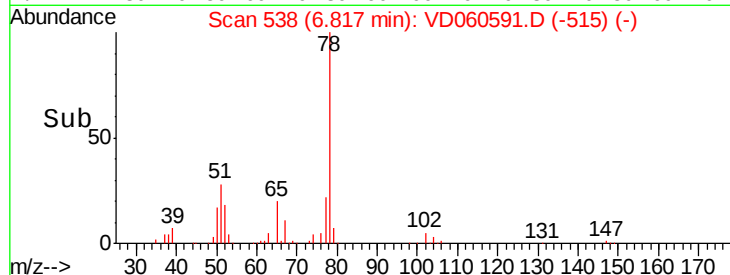
100000

50000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

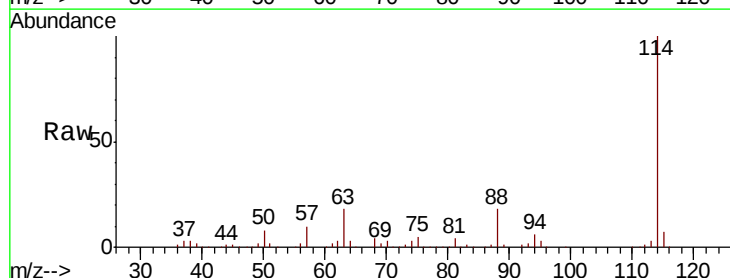
Tgt Ion: 114 Resp: 2285176

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.2

88 18.0 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

1200000

1000000

800000

600000

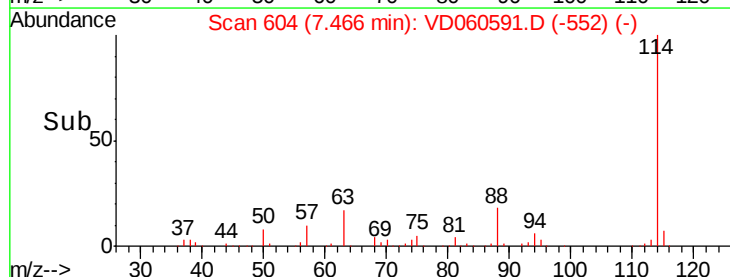
400000

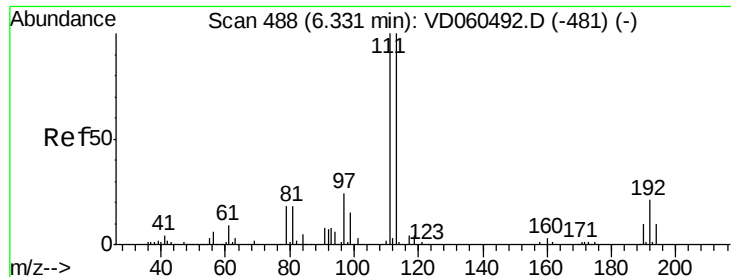
200000

0

7.40 7.60 7.80

Time-->





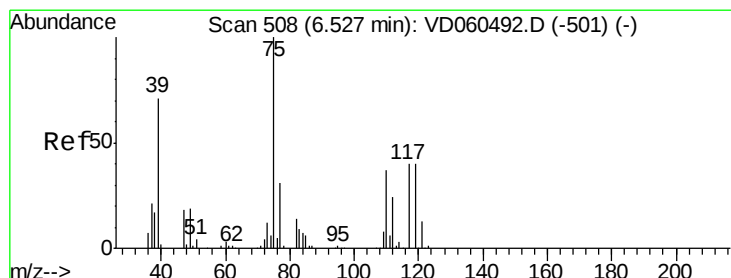
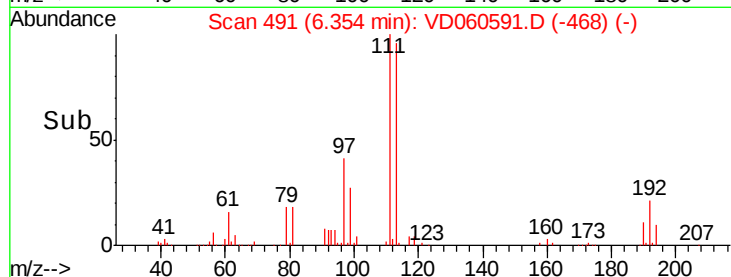
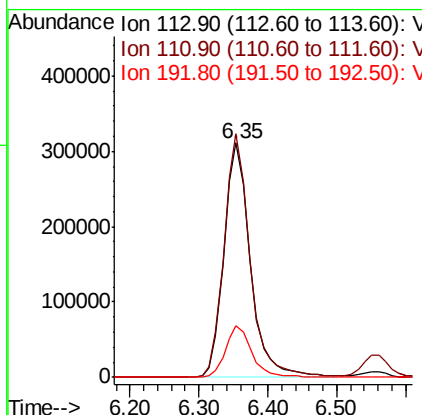
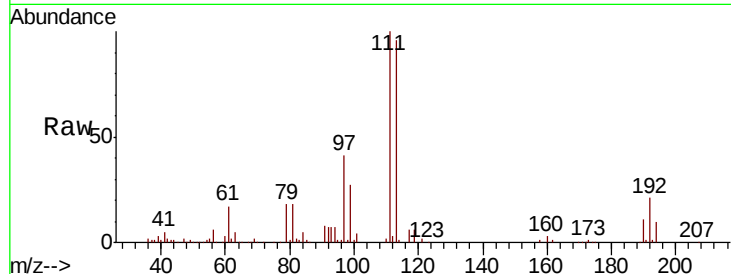
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.35 min Scan# 491
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	831228		
111	104.0		80.2	120.4
192	21.9		16.6	24.8

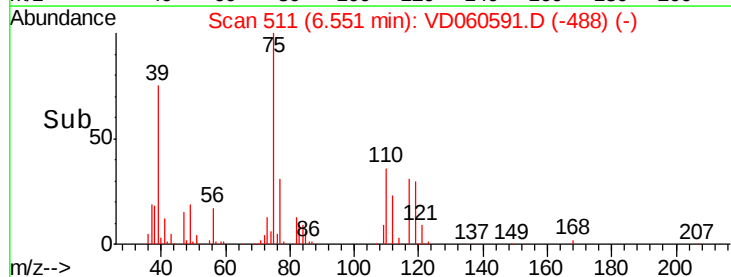
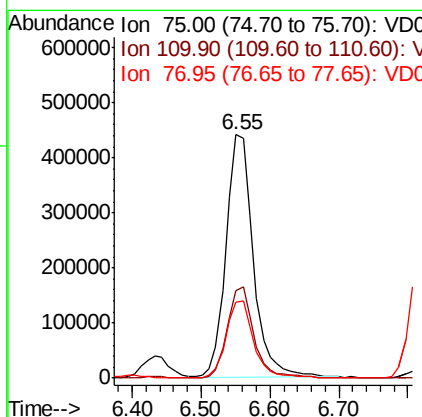
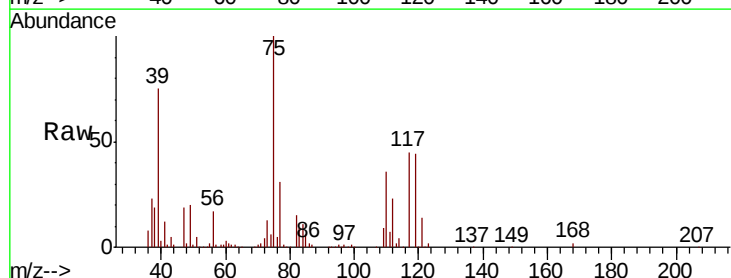
Manual Integrations
 APPROVED

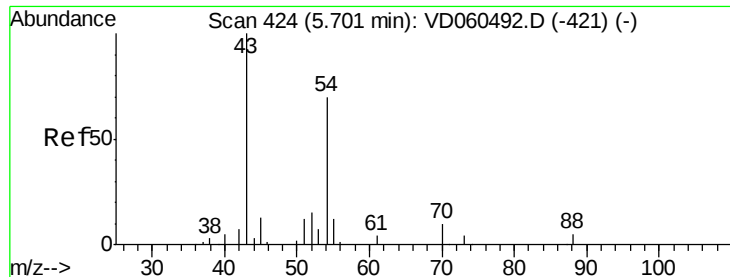
apatel
 12/18/2018 3:30:50 PM



#36
 1,1-Dichloropropene
 Concen: 54.067 ug/l
 RT: 6.55 min Scan# 511
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1207706		
110	36.0		18.3	54.8
77	31.3		24.6	37.0





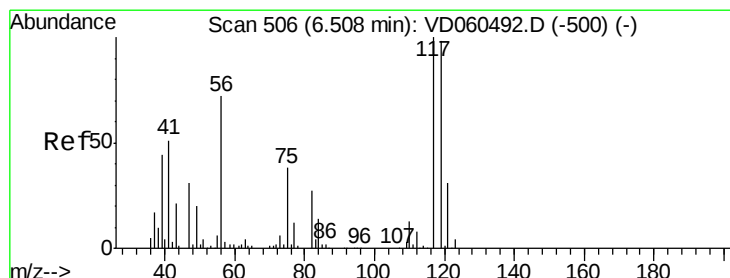
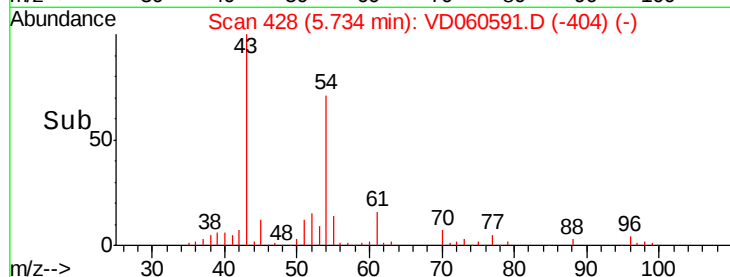
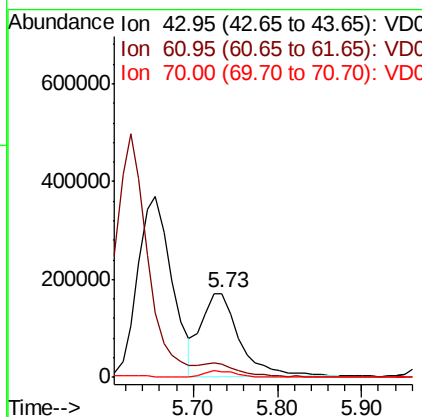
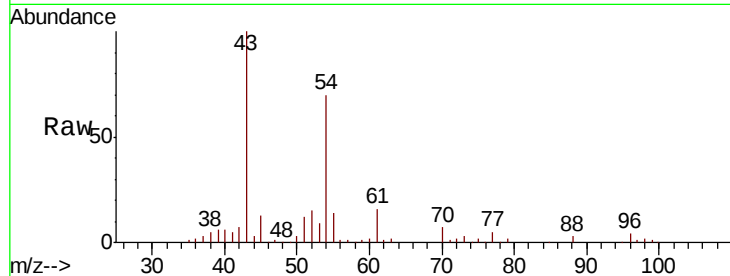
#37
Ethyl Acetate
Concen: 54.433 ug/l
RT: 5.73 min Scan# 428
Delta R.T. 0.03 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.3	12.4	18.6
70	6.9	5.4	8.0

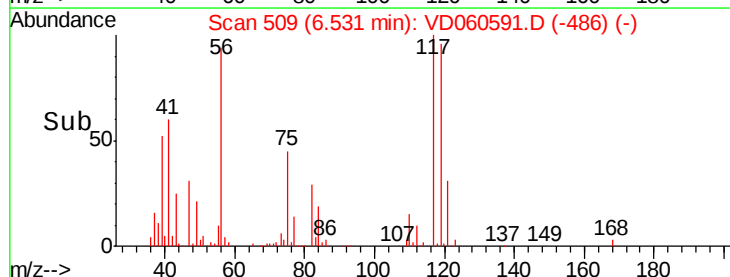
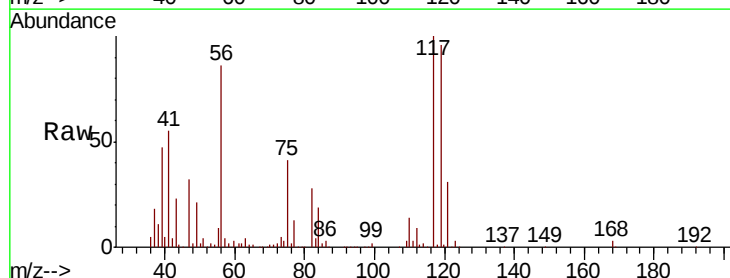
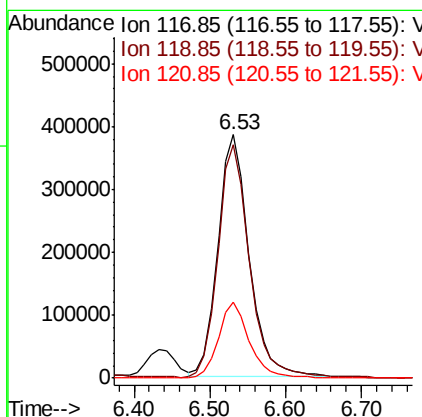
Manual Integrations
APPROVED

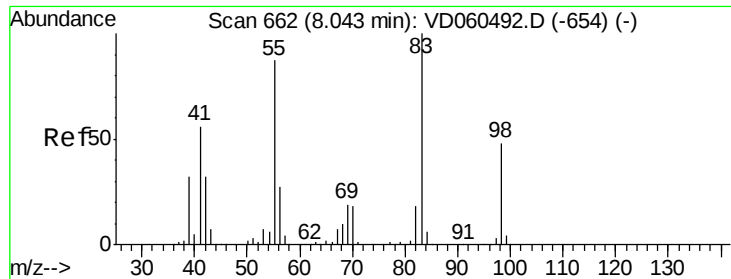
apatel
12/18/2018 3:30:50 PM



#38
Carbon Tetrachloride
Concen: 54.834 ug/l
RT: 6.53 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.8	115.2
121	31.0	24.4	36.6





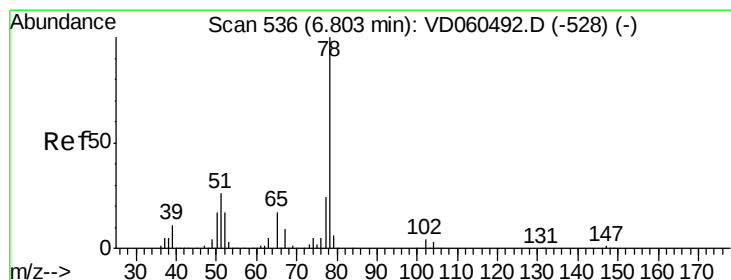
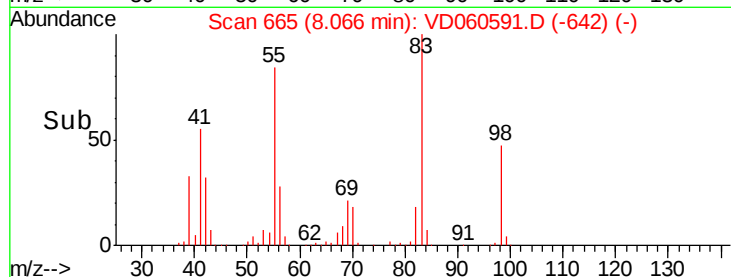
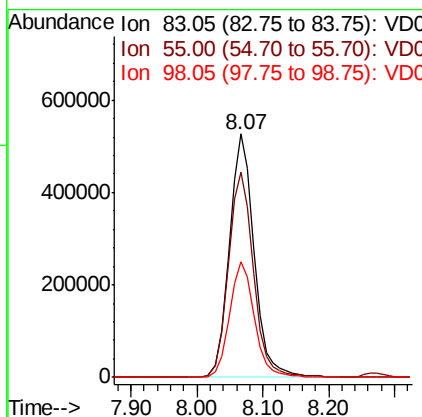
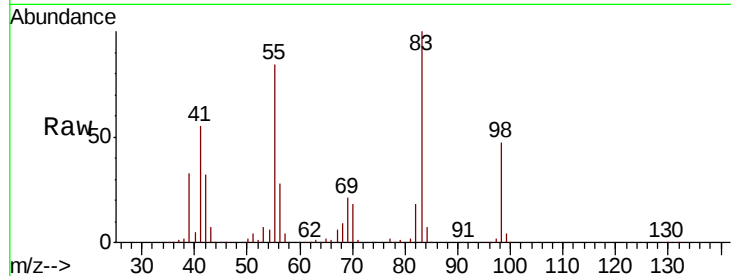
#39
Methvlcvclohexane
Concen: 54.557 ug/l
RT: 8.07 min Scan# 665
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1389250
Ion Ratio Lower Upper
83 100
55 84.3 69.8 104.8
98 47.4 38.4 57.6

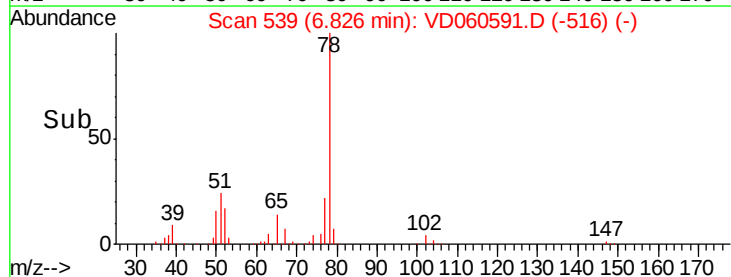
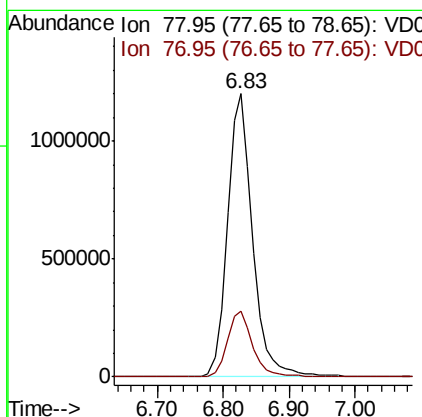
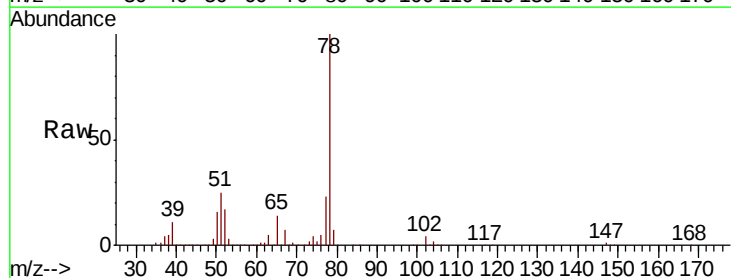
Manual Integrations
APPROVED

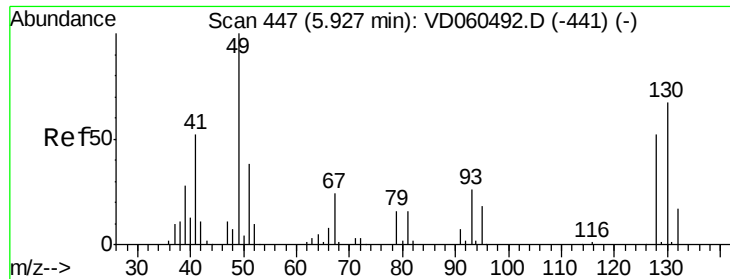
apatel
12/18/2018 3:30:50 PM



#40
Benzene
Concen: 55.926 ug/l
RT: 6.83 min Scan# 539
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 78 Resp: 3192649
Ion Ratio Lower Upper
78 100
77 23.3 18.9 28.3





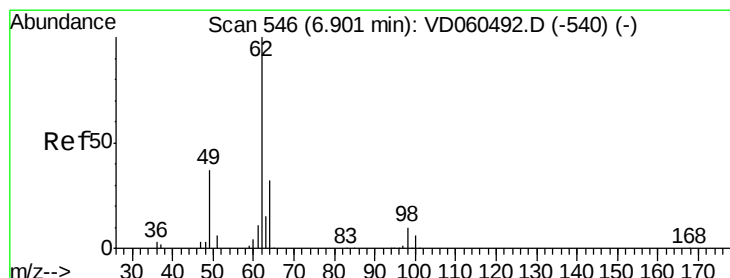
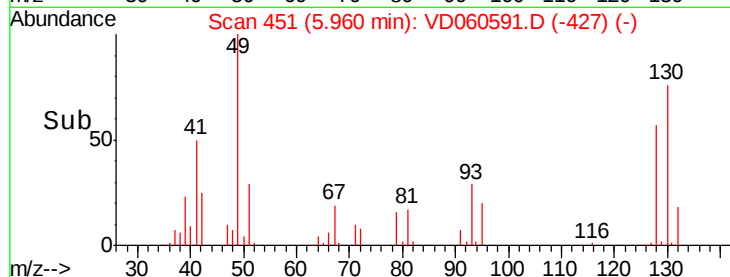
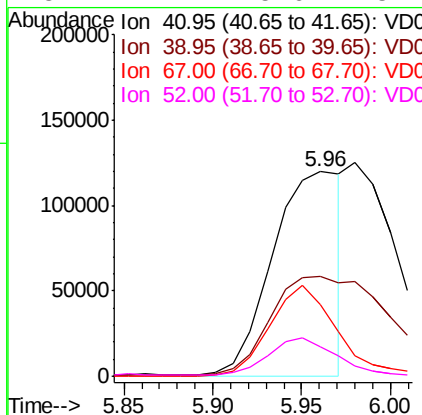
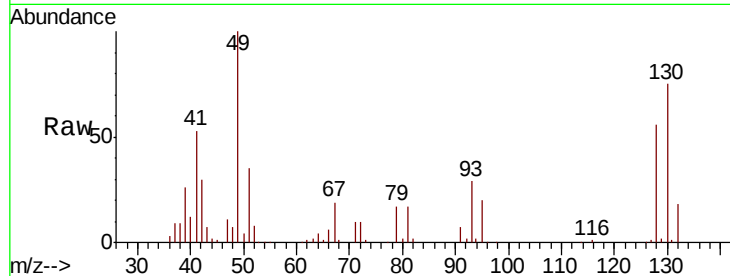
#41
Methacrylonitrile
Concen: 62.448 ug/l m
RT: 5.96 min Scan# 451
Delta R.T. 0.03 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.7	42.6	63.8
67	34.9	36.2	54.4#
52	14.7	15.6	23.4#

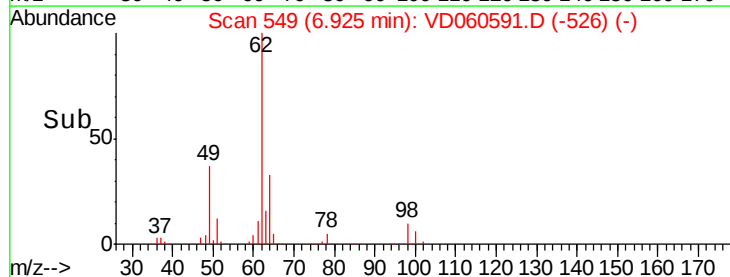
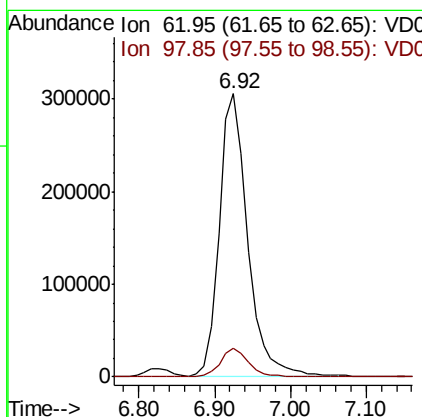
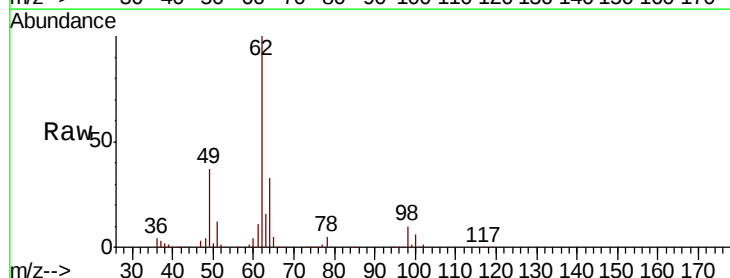
Manual Integrations
APPROVED

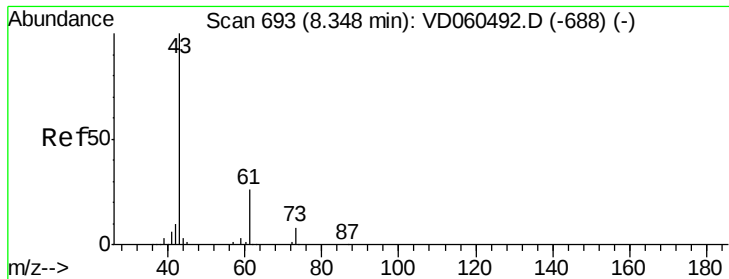
apatel
12/18/2018 3:30:50 PM



#42
1,2-Dichloroethane
Concen: 54.363 ug/l
RT: 6.92 min Scan# 549
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.2





#43

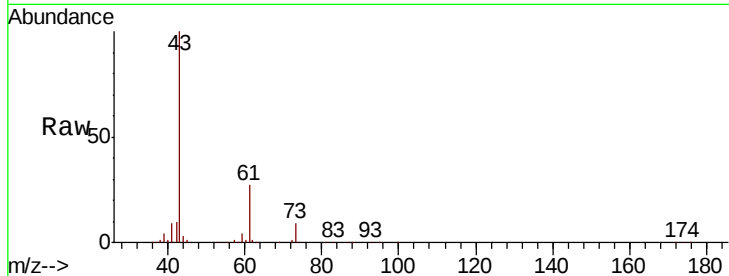
Isopropyl Acetate
 Concen: 54.936 ug/l
 RT: 8.37 min Scan# 696
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

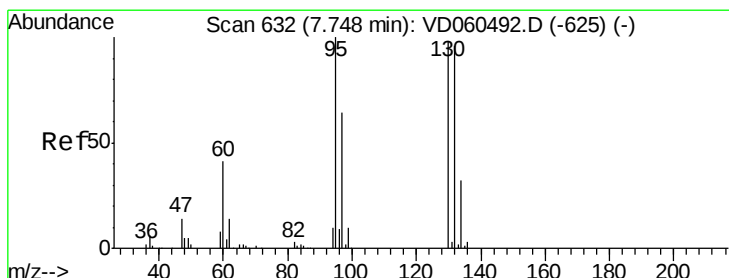
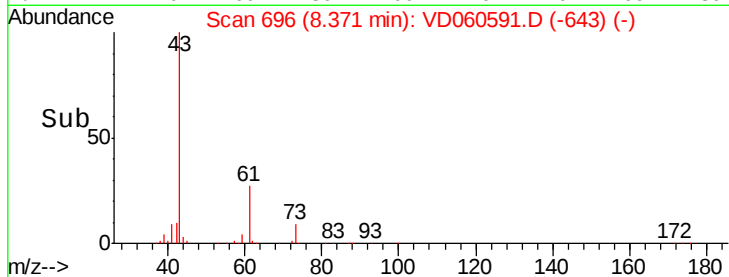
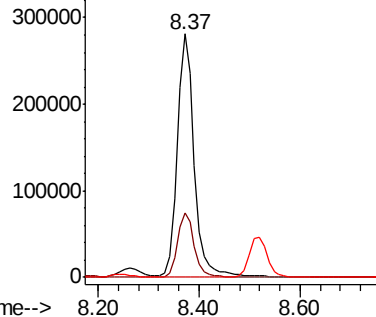
Tot Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.0	31.4
87	0.2	0.2	0.2

Manual Integrations
 APPROVED

apatel
 12/18/2018 3:30:50 PM



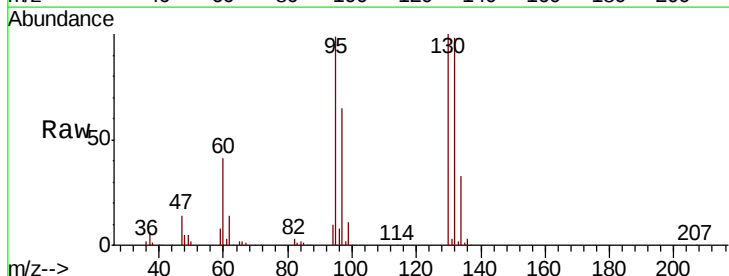
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



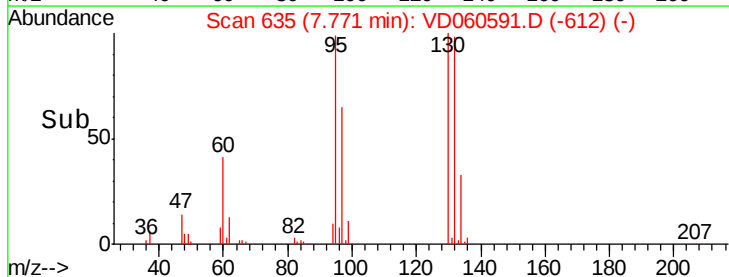
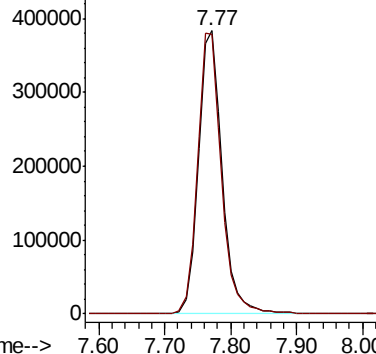
#44

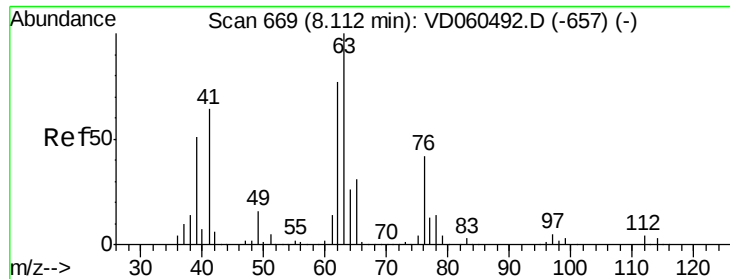
Trichloroethene
 Concen: 56.597 ug/l
 RT: 7.77 min Scan# 635
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	203.8



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





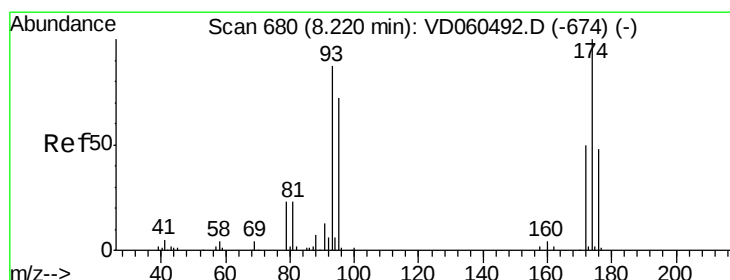
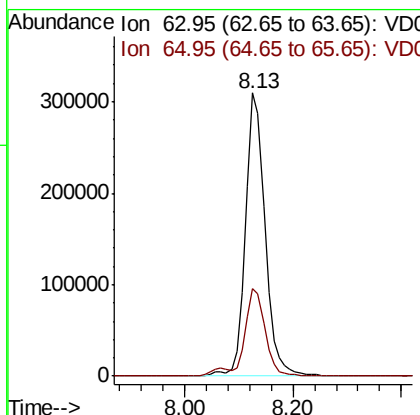
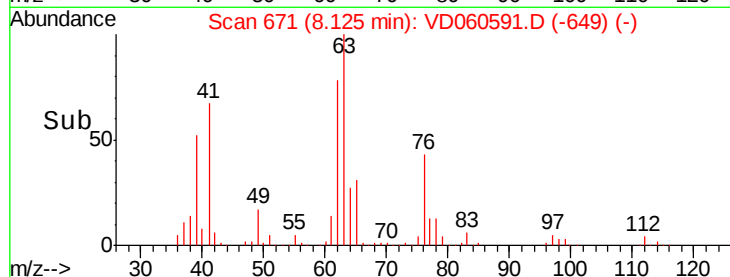
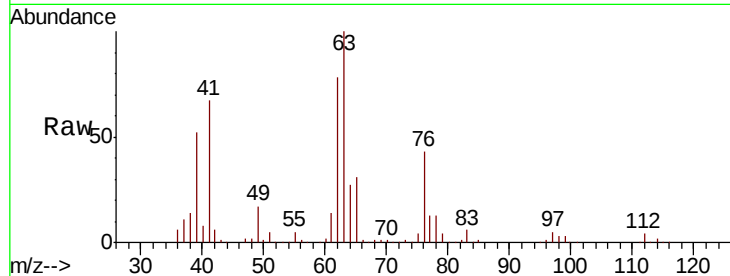
#45
 1,2-Dichloropropane
 Concen: 55.133 ug/l
 RT: 8.13 min Scan# 671
 Delta R.T. 0.01 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 778421
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.6 37.0

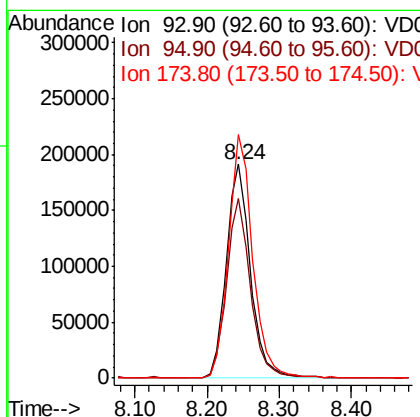
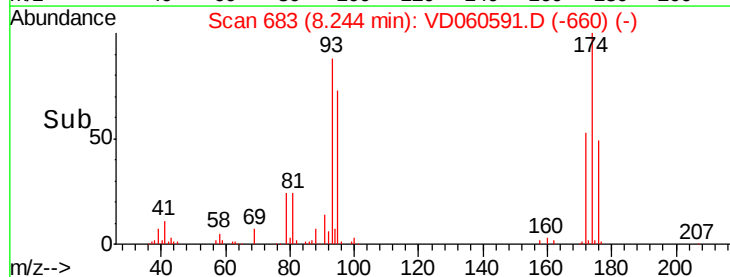
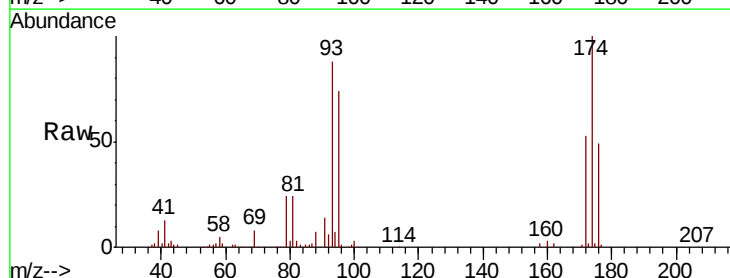
Manual Integrations
 APPROVED

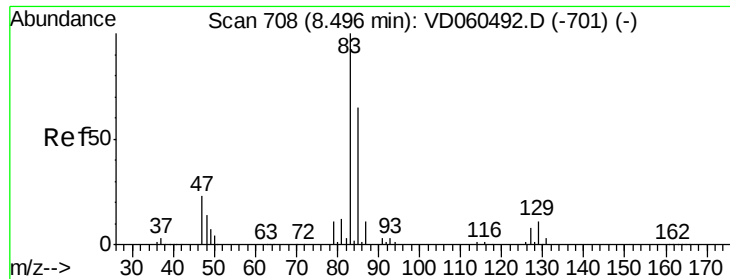
apatel
 12/18/2018 3:30:50 PM



#46
 Dibromomethane
 Concen: 54.349 ug/l
 RT: 8.24 min Scan# 683
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion: 93 Resp: 443353
 Ion Ratio Lower Upper
 93 100
 95 83.9 65.6 98.4
 174 114.0 91.7 137.5





#47

Bromodichloromethane

Concen: 56.712 ug/l

RT: 8.52 min Scan# 711

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1097703

Ion Ratio Lower Upper

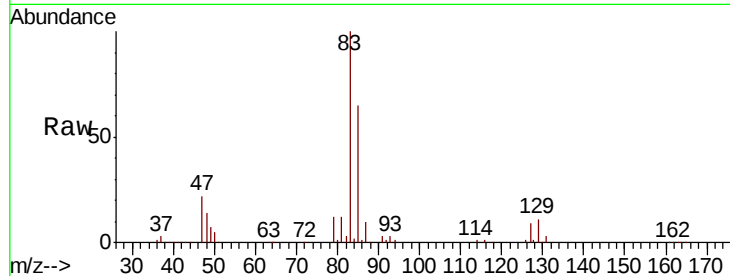
83 100

85 64.5 52.2 78.4

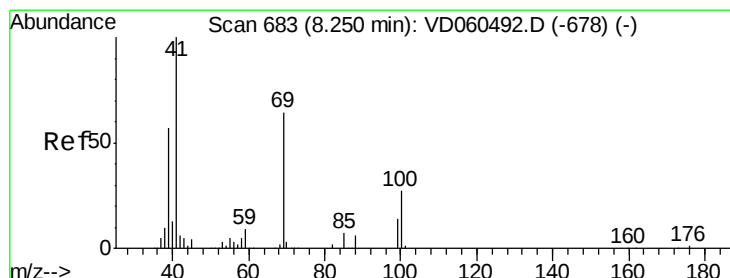
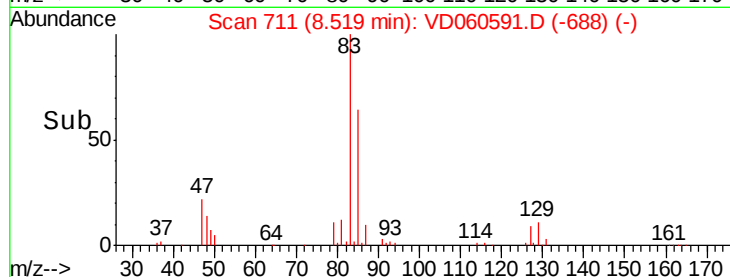
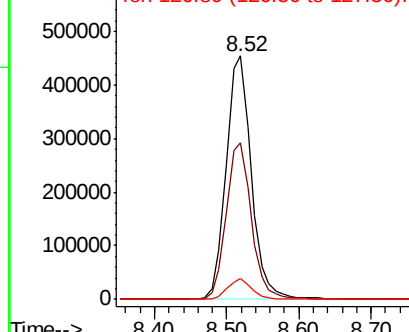
127 8.6 6.7 10.1

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



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: 54.956 ug/l

RT: 8.27 min Scan# 686

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

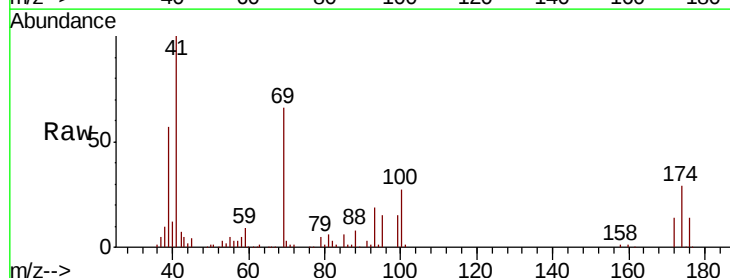
Tgt Ion: 41 Resp: 388853

Ion Ratio Lower Upper

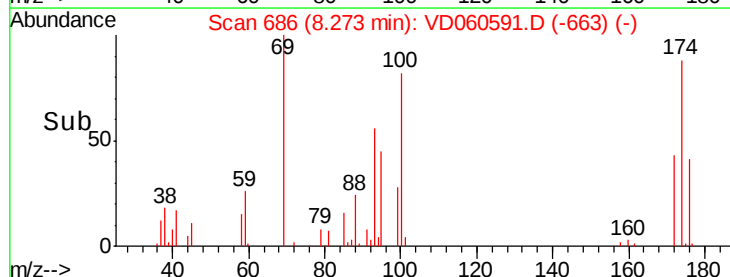
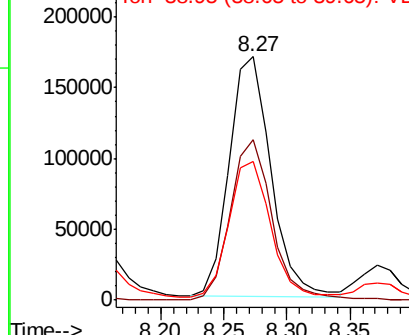
41 100

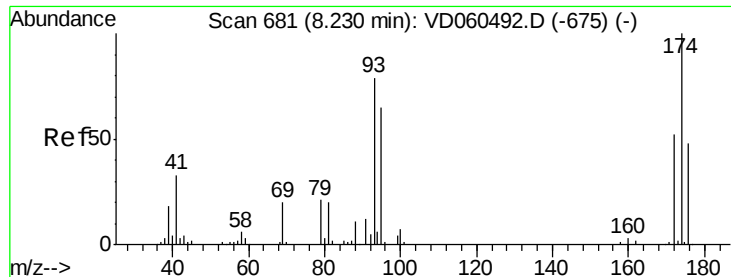
69 65.8 50.2 75.4

39 57.1 46.1 69.1



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: 1099.386 ug/l

RT: 8.25 min Scan# 684

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

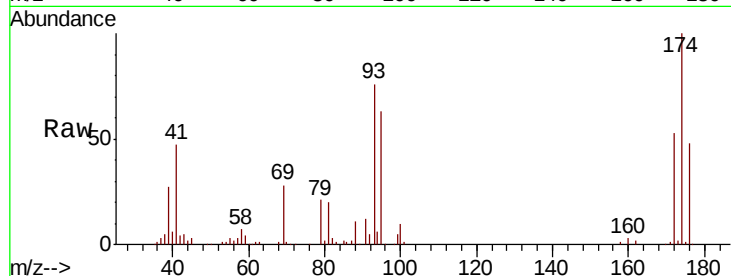
ClientSampleId :

VSTDCCC050

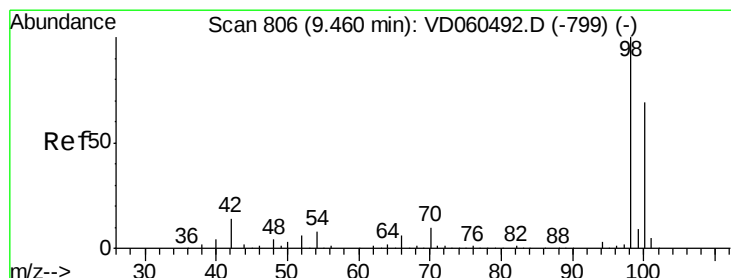
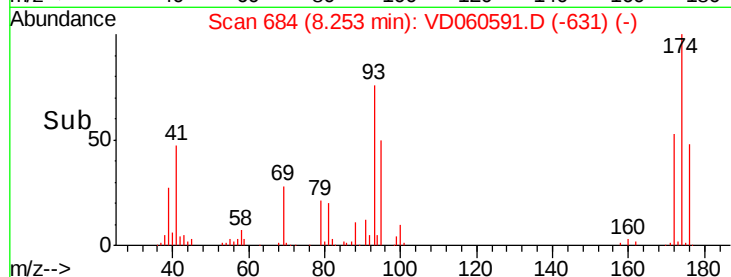
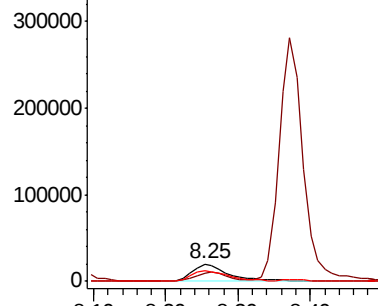
Tot Ion:	88	Resp:	70502
Ion	Ratio	Lower	Upper
88	100		
43	43.5	32.9	49.3
58	62.9	47.7	71.5

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 1099.386 ug/l

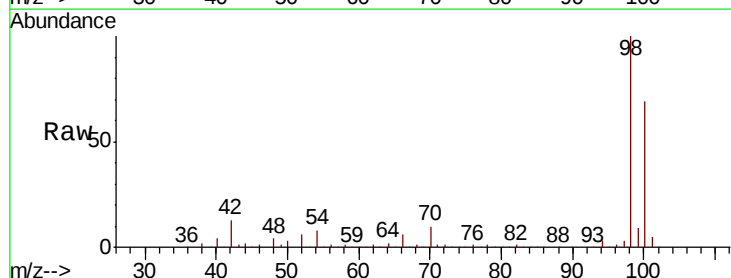
RT: 9.48 min Scan# 809

Delta R.T. 0.02 min

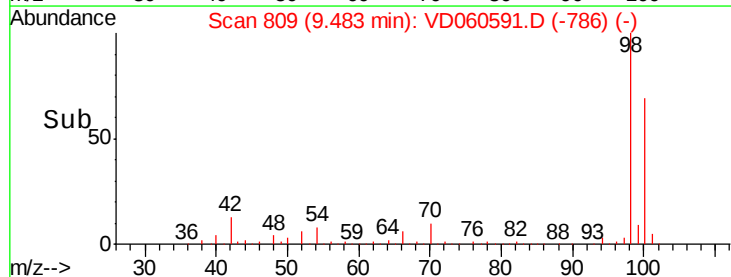
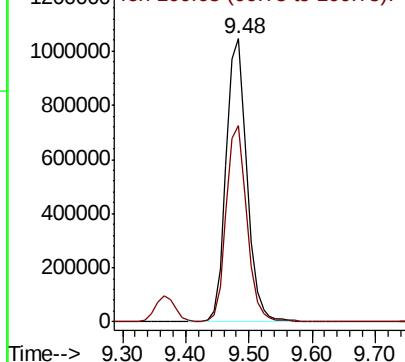
Lab File: VD060591.D

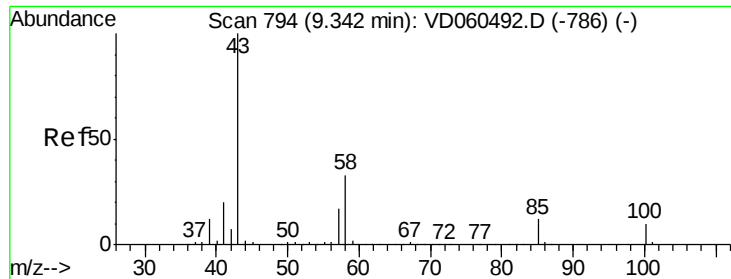
Acq: 17 Dec 2018 10:58

Tgt Ion:	98	Resp:	2387274
Ion	Ratio	Lower	Upper
98	100		
100	69.4	55.7	83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 280.823 ug/l

RT: 9.37 min Scan# 797

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion: 43 Resp: 2088917

Ion Ratio Lower Upper

43 100

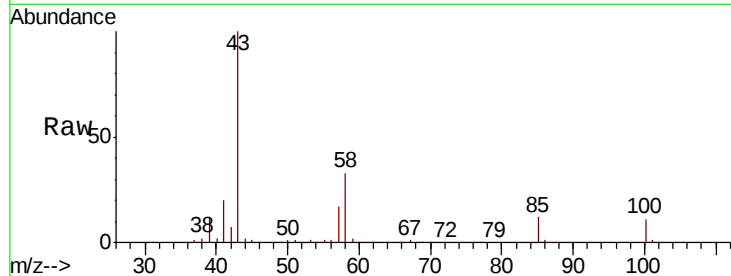
58 32.5 26.3 39.5

Manual Integrations

APPROVED

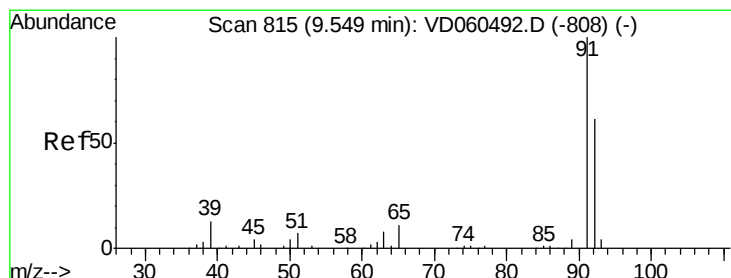
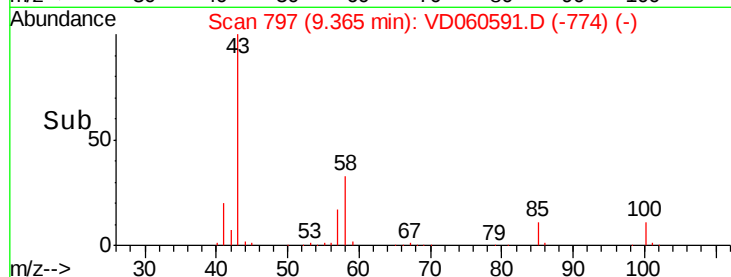
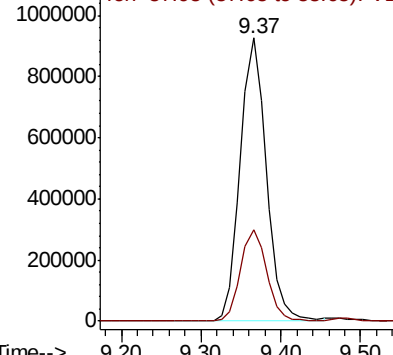
apatel

12/18/2018 3:30:50 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 54.859 ug/l

RT: 9.57 min Scan# 818

Delta R.T. 0.02 min

Lab File: VD060591.D

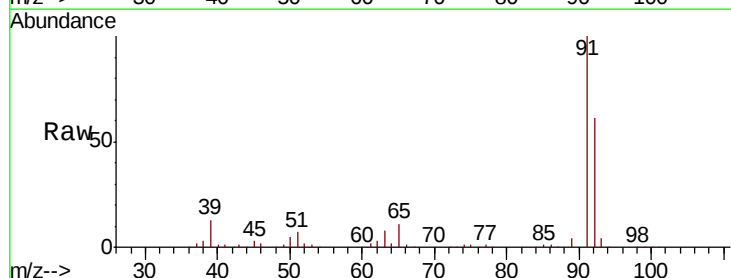
Acq: 17 Dec 2018 10:58

Tgt Ion: 92 Resp: 1957416

Ion Ratio Lower Upper

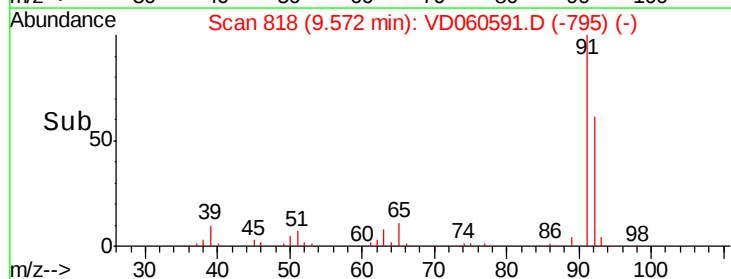
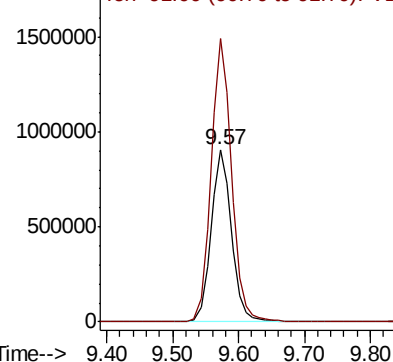
92 100

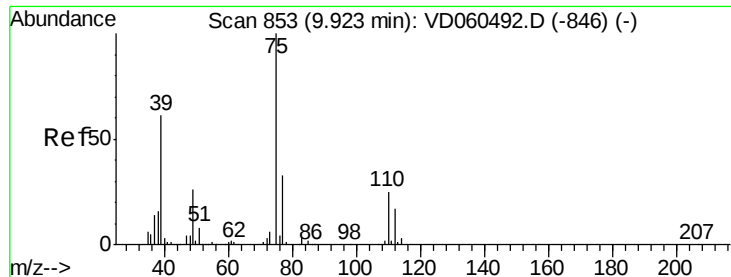
91 164.0 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





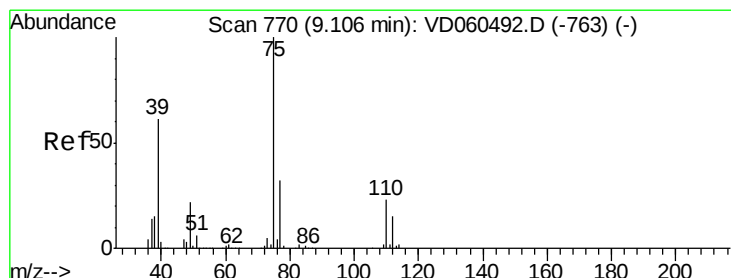
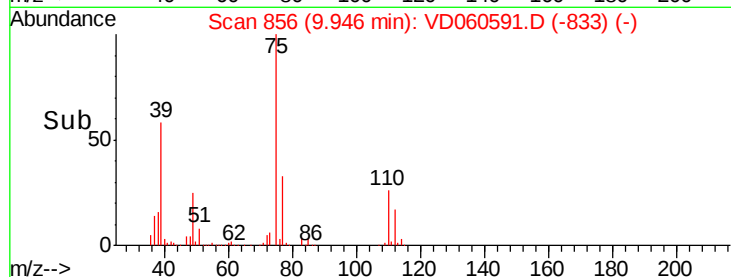
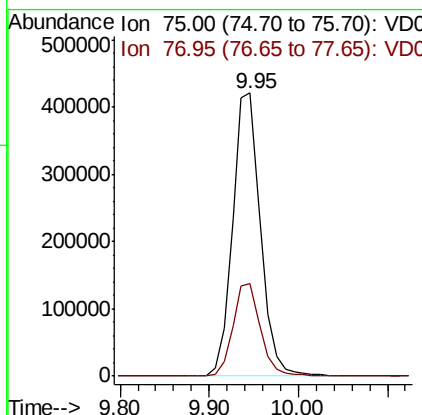
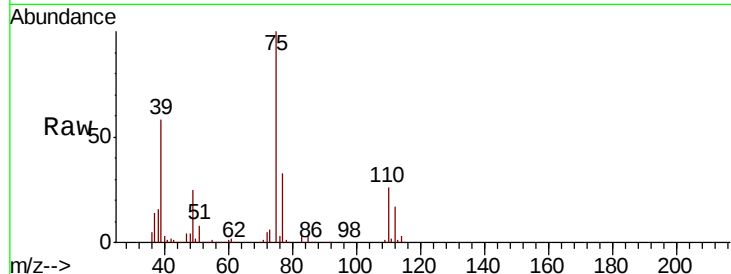
#53
t-1,3-Dichloropropene
Concen: 57.787 ug/l
RT: 9.95 min Scan# 856
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 919064
Ion Ratio Lower Upper
75 100
77 32.7 26.2 39.2

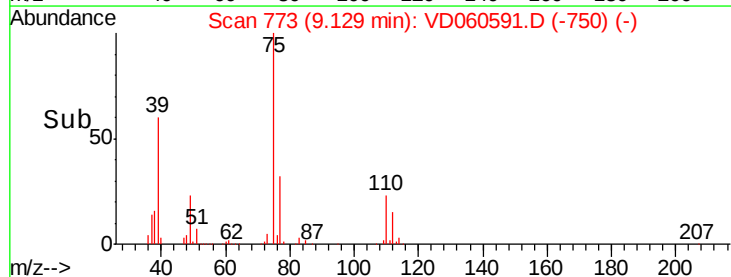
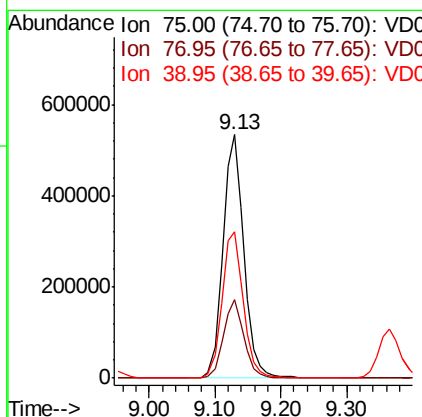
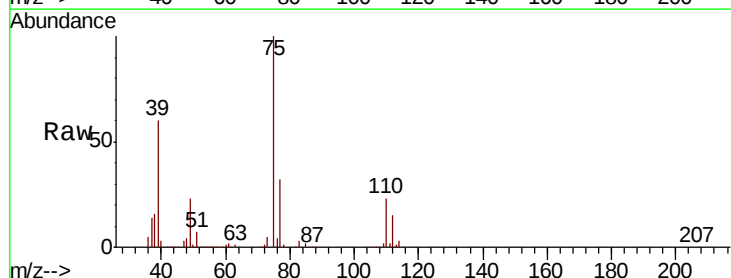
Manual Integrations
APPROVED

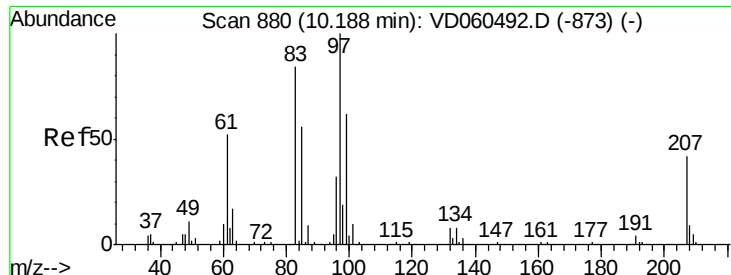
apatel
12/18/2018 3:30:50 PM



#54
cis-1,3-Dichloropropene
Concen: 56.619 ug/l
RT: 9.13 min Scan# 773
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 75 Resp: 1183127
Ion Ratio Lower Upper
75 100
77 32.1 25.6 38.4
39 60.3 48.6 73.0





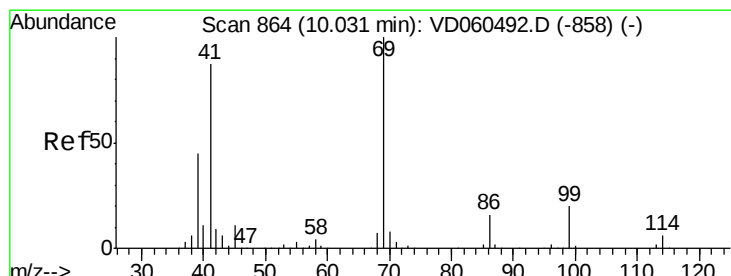
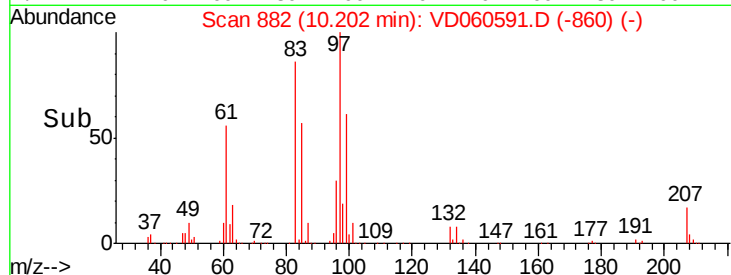
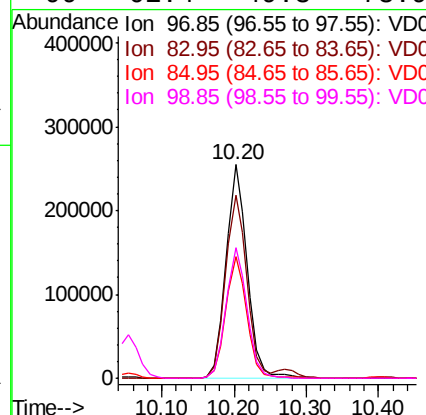
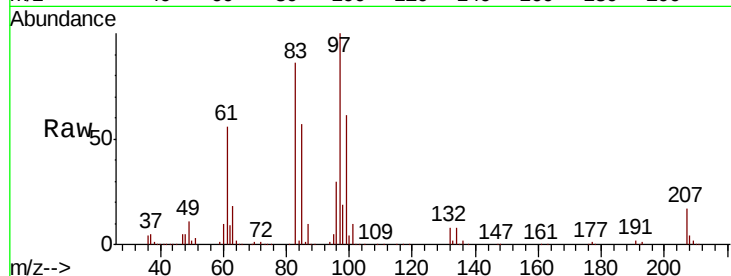
#55
 1,1,2-Trichloroethane
 Concen: 52.018 ug/l
 RT: 10.20 min Scan# 882
 Delta R.T. 0.01 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	516870
Ion	Ratio	Lower	Upper
97	100		
83	85.7	67.2	100.8
85	57.2	44.5	66.7
99	61.4	49.3	73.9

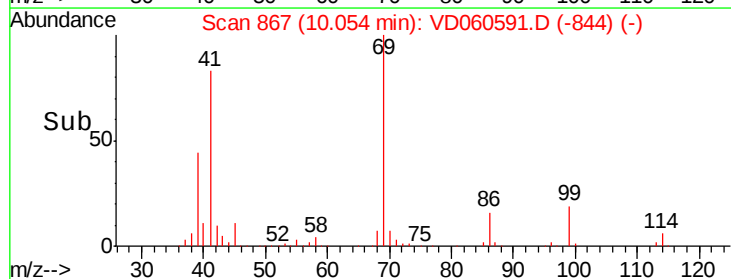
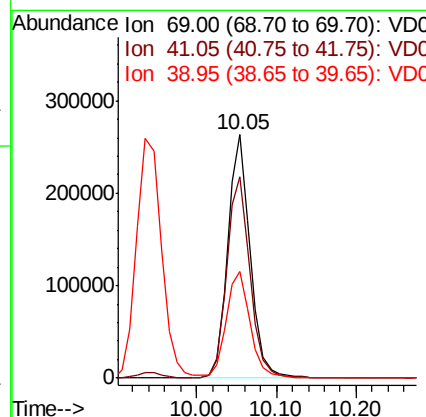
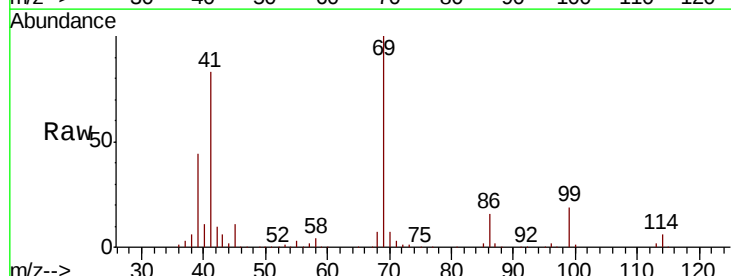
Manual Integrations
 APPROVED

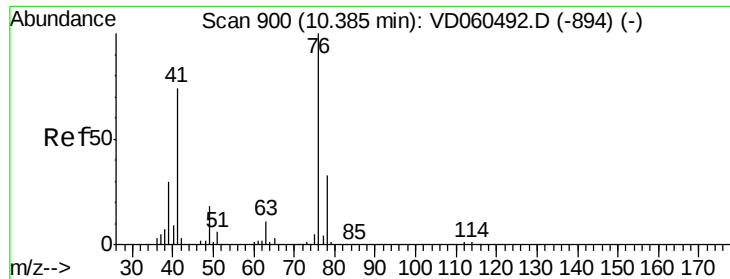
apatel
 12/18/2018 3:30:50 PM



#56
 Ethyl methacrylate
 Concen: 57.799 ug/l
 RT: 10.05 min Scan# 867
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion:	69	Resp:	519764
Ion	Ratio	Lower	Upper
69	100		
41	82.7	69.8	104.8
39	43.9	37.5	56.3





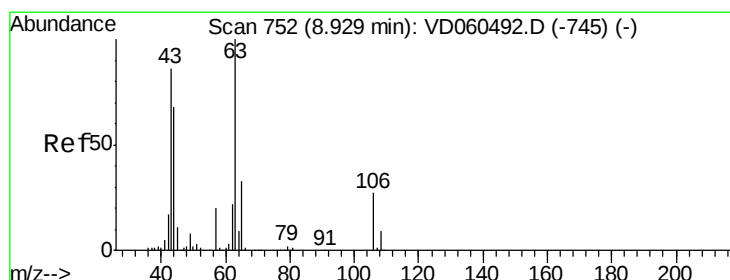
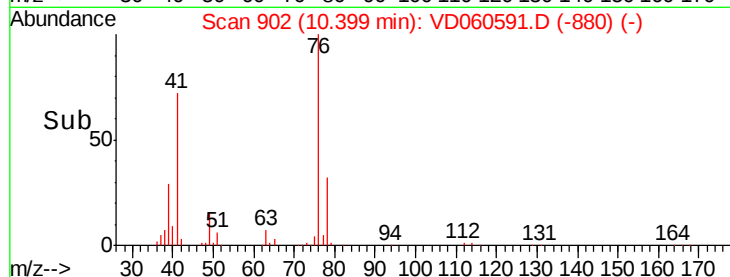
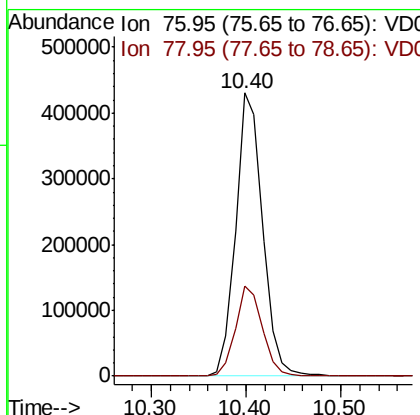
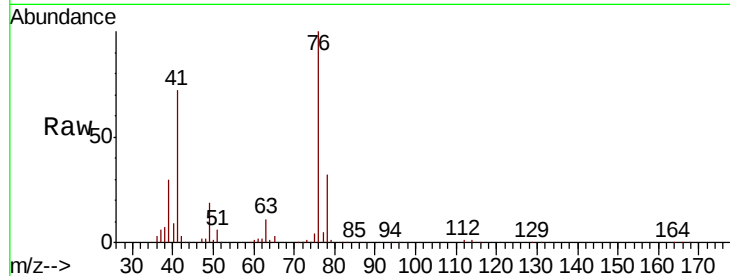
#57
 1,3-Dichloropropane
 Concen: 54.956 ug/l
 RT: 10.40 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 844135
 Ion Ratio Lower Upper
 76 100
 78 32.0 26.1 39.1

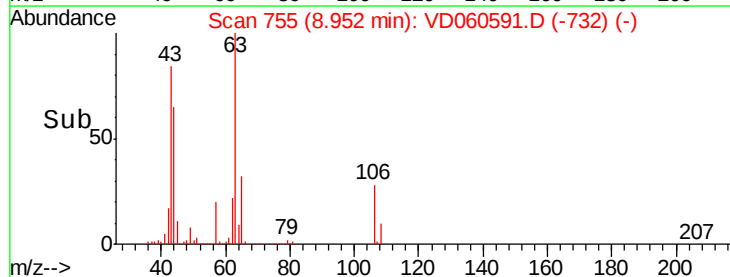
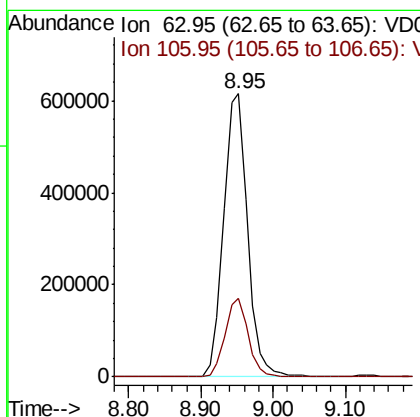
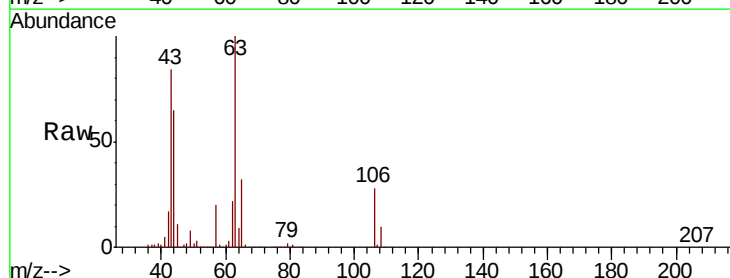
Manual Integrations
 APPROVED

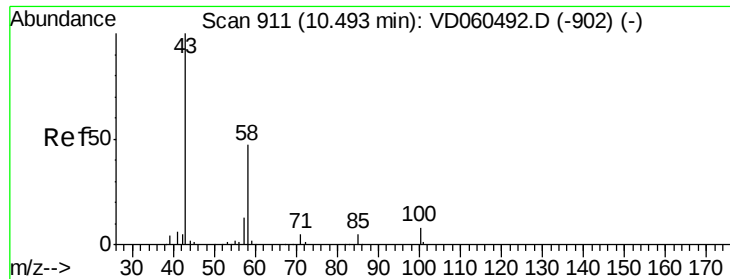
apatel
 12/18/2018 3:30:50 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 262.587 ug/l
 RT: 8.95 min Scan# 755
 Delta R.T. 0.02 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion: 63 Resp: 1412906
 Ion Ratio Lower Upper
 63 100
 106 27.9 21.6 32.4





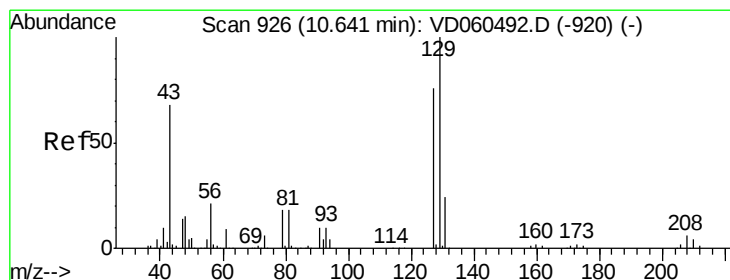
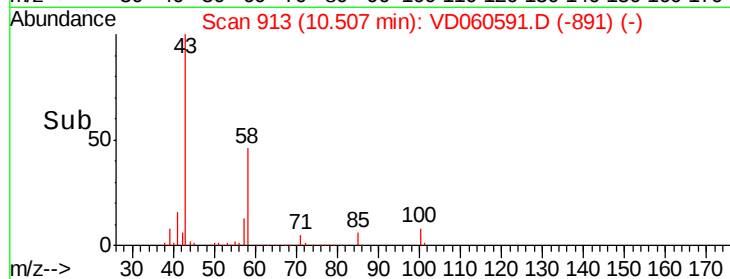
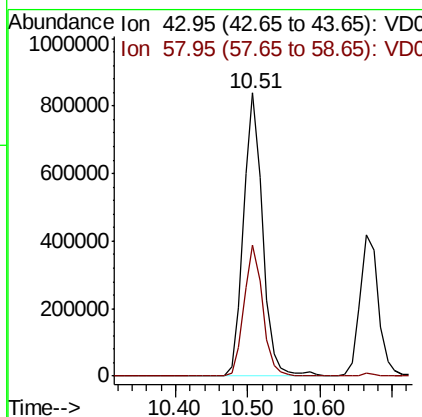
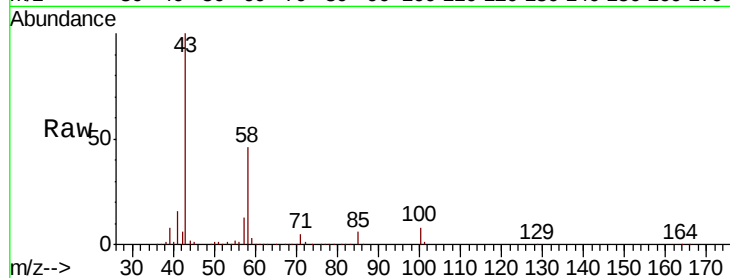
#59
2-Hexanone
Concen: 298.269 ug/l
RT: 10.51 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1550813
Ion Ratio Lower Upper
43 100
58 46.1 23.4 70.2

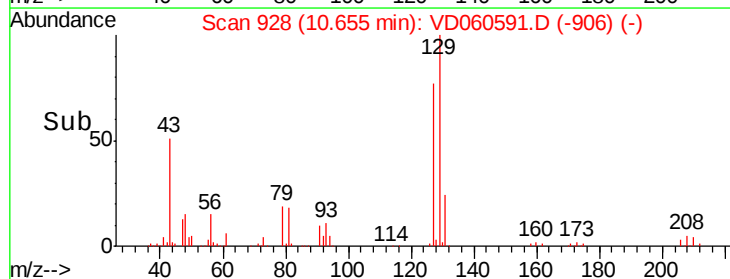
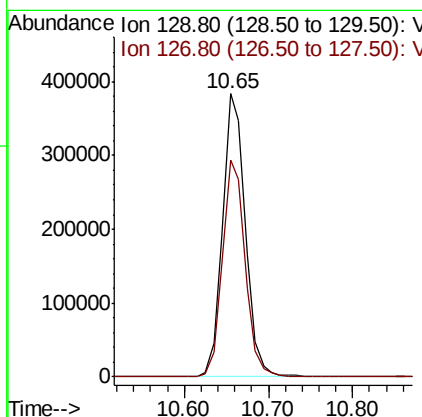
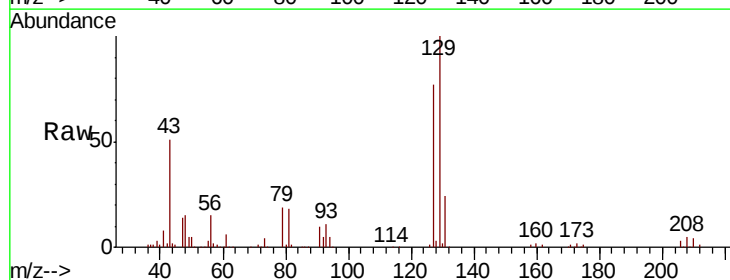
Manual Integrations
APPROVED

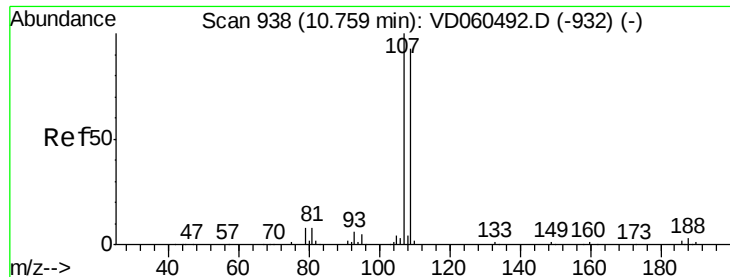
apatel
12/18/2018 3:30:50 PM



#60
Dibromochloromethane
Concen: 57.818 ug/l
RT: 10.65 min Scan# 928
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 129 Resp: 718288
Ion Ratio Lower Upper
129 100
127 76.8 38.1 114.3





#61

1,2-Dibromoethane

Concen: 54.154 ug/l

RT: 10.77 min Scan# 940

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 548379

Ion Ratio Lower Upper

107 100

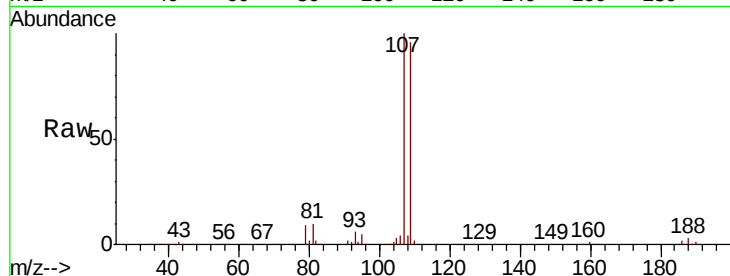
109 95.5 74.7 112.1

Manual Integrations

APPROVED

apatel

12/18/2018 3:30:50 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.77

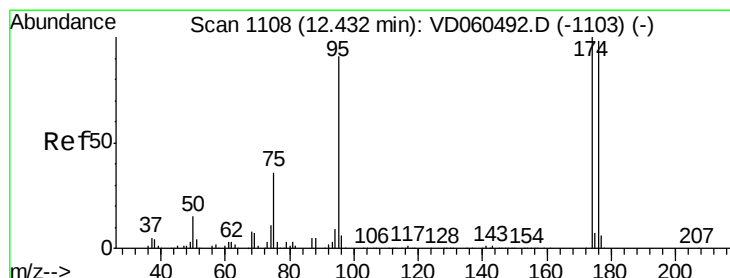
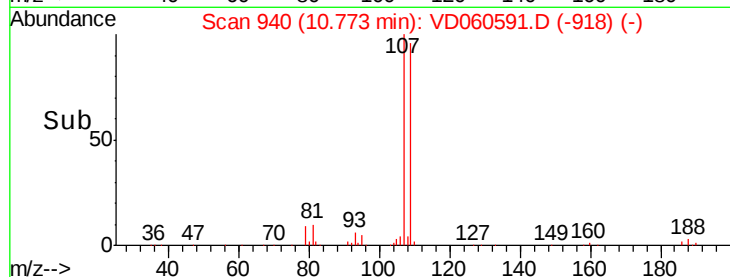
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 54.154 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

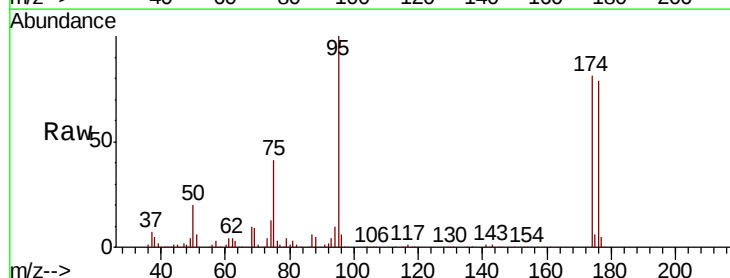
Tgt Ion: 95 Resp: 833267

Ion Ratio Lower Upper

95 100

174 81.4 0.0 219.4

176 78.8 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

800000

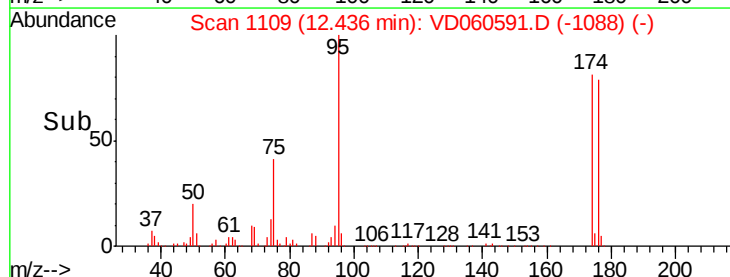
600000

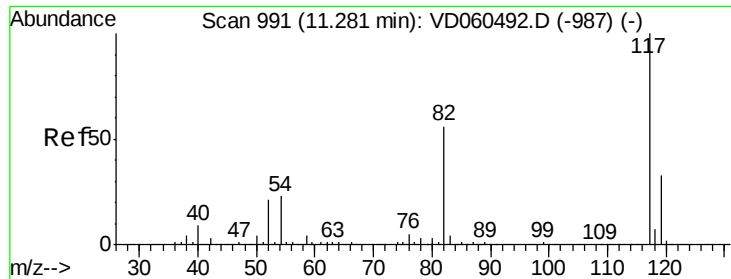
400000

200000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.30 min Scan# 994

Delta R.T. 0.02 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:117 Resp: 1814323

Ion Ratio Lower Upper

117 100

82 49.8 45.2 67.8

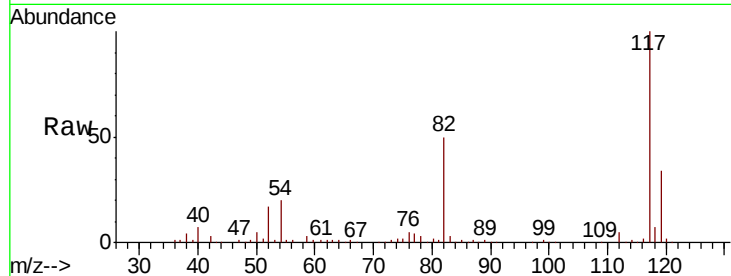
119 33.6 26.1 39.1

Manual Integrations

APPROVED

apatel

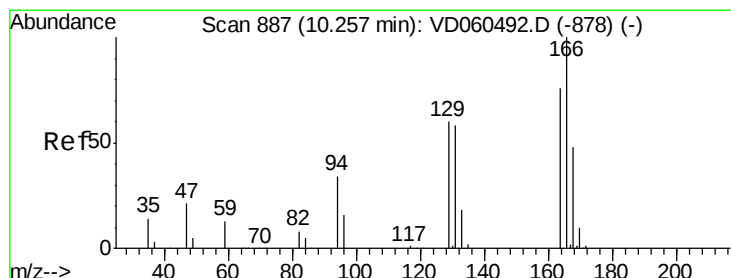
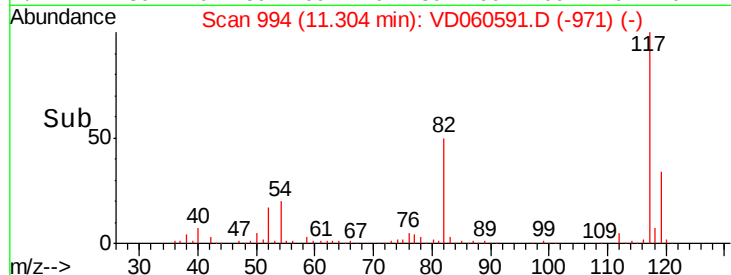
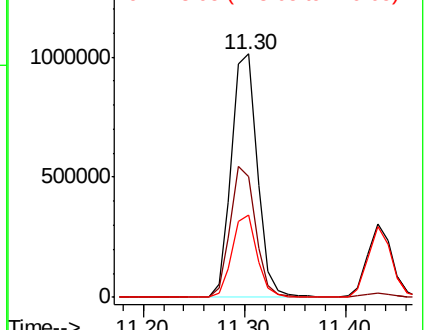
12/18/2018 3:30:50 PM



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 54.671 ug/l

RT: 10.27 min Scan# 889

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:164 Resp: 878314

Ion Ratio Lower Upper

164 100

166 125.6 105.0 157.6

129 79.9 63.0 94.4

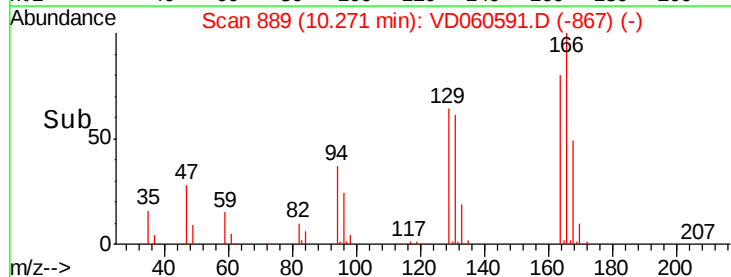
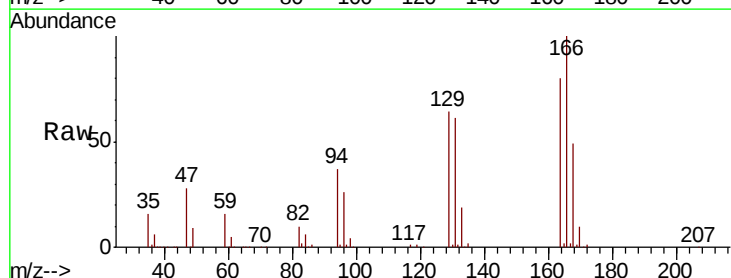
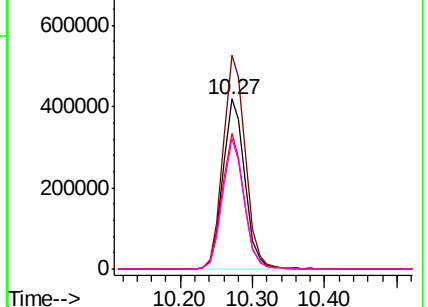
131 76.5 60.6 90.8

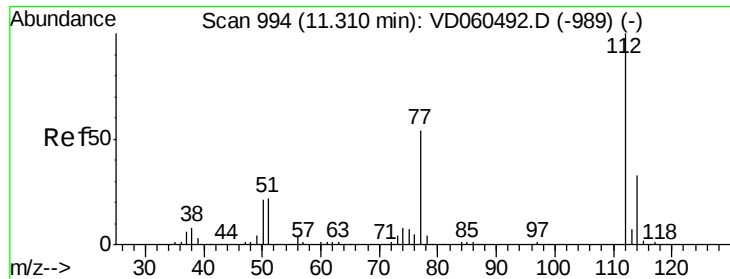
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





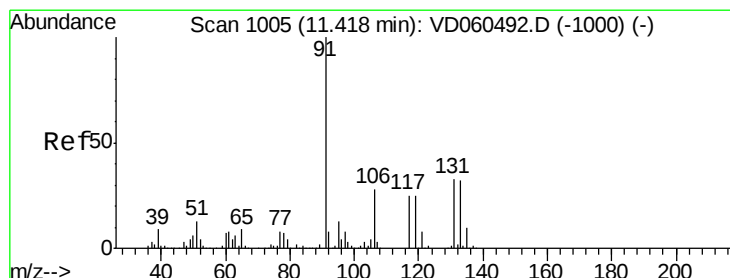
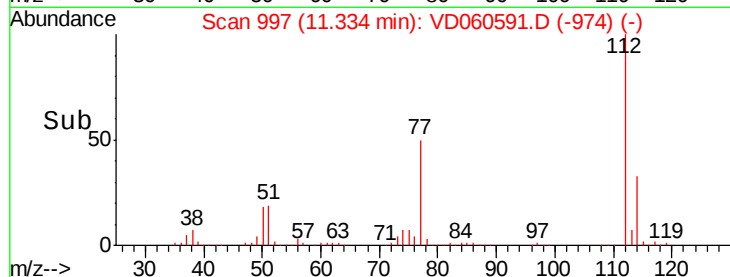
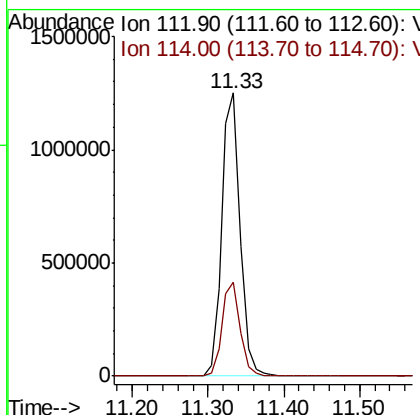
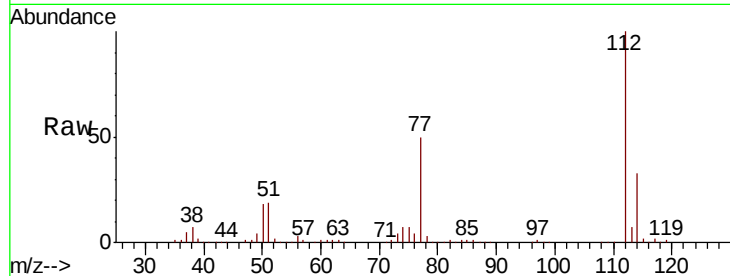
#65
Chlorobenzene
Concen: 54.905 ug/l
RT: 11.33 min Scan# 997
Delta R.T. 0.02 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 2107432
Ion Ratio Lower Upper
112 100
114 33.0 26.2 39.4

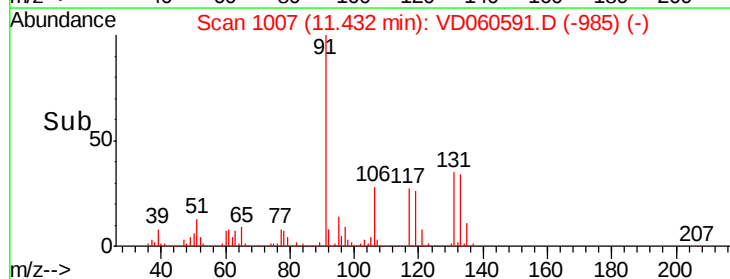
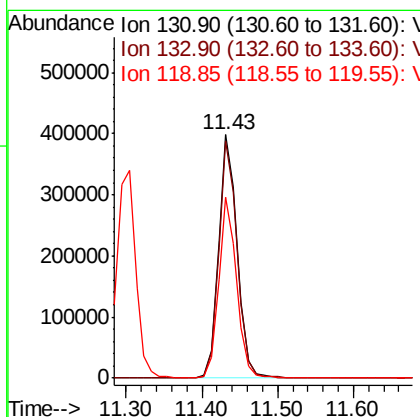
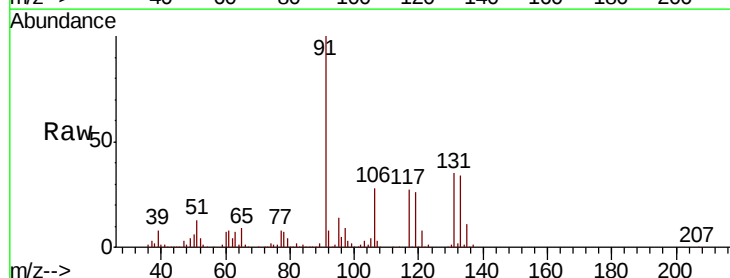
Manual Integrations
APPROVED

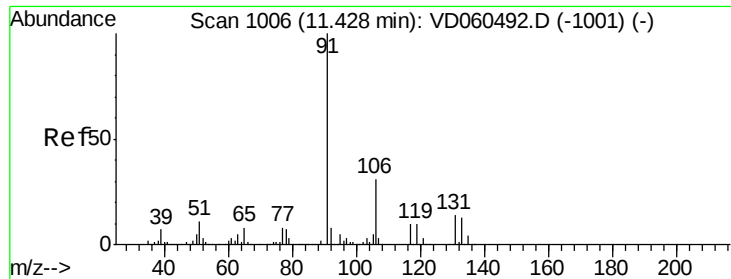
apatel
12/18/2018 3:30:50 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 55.139 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion:131 Resp: 682152
Ion Ratio Lower Upper
131 100
133 97.3 49.1 147.3
119 74.1 37.5 112.3





#67

Ethyl Benzene

Concen: 53.298 ug/l

RT: 11.44 min Scan# 1008

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion: 91 Resp: 3489468

Ion Ratio Lower Upper

91 100

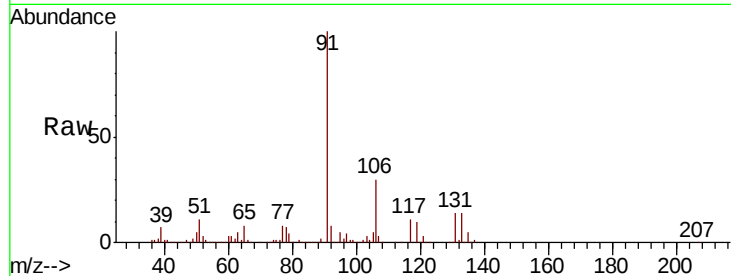
106 29.9 24.6 37.0

Manual Integrations

APPROVED

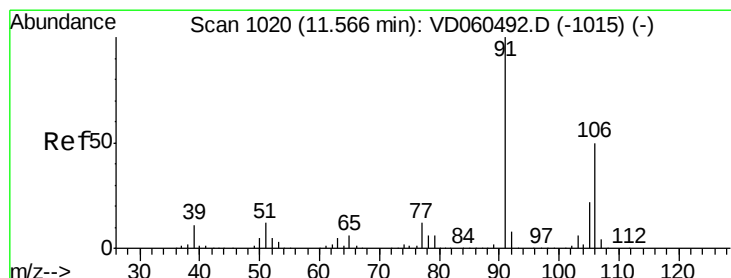
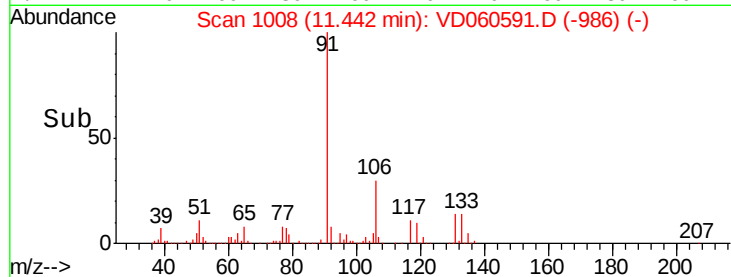
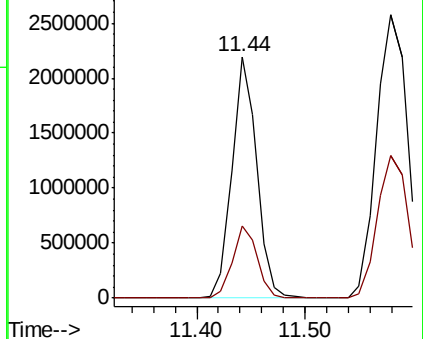
apatel

12/18/2018 3:30:50 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 105.279 ug/l

RT: 11.58 min Scan# 1022

Delta R.T. 0.01 min

Lab File: VD060591.D

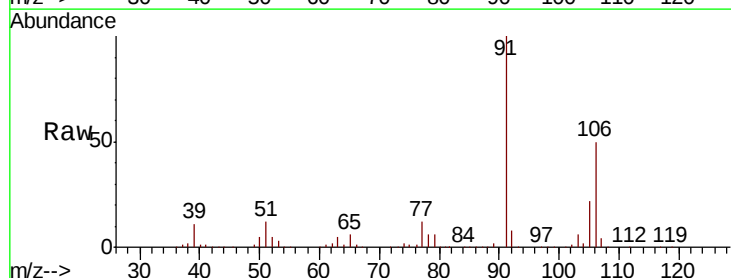
Acq: 17 Dec 2018 10:58

Tgt Ion: 106 Resp: 2549958

Ion Ratio Lower Upper

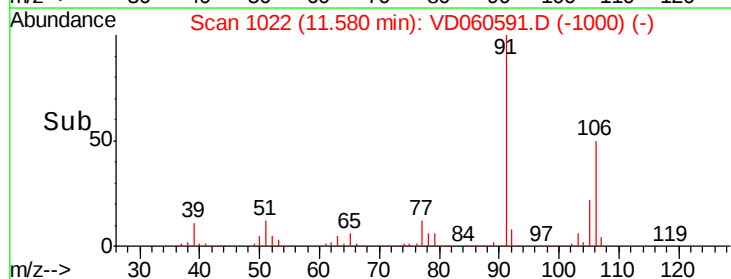
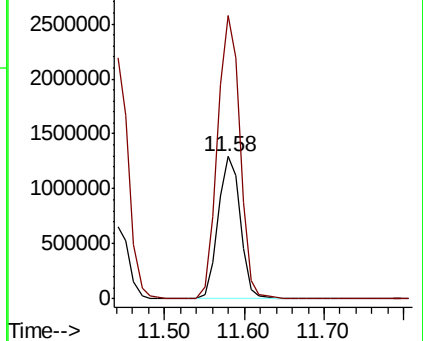
106 100

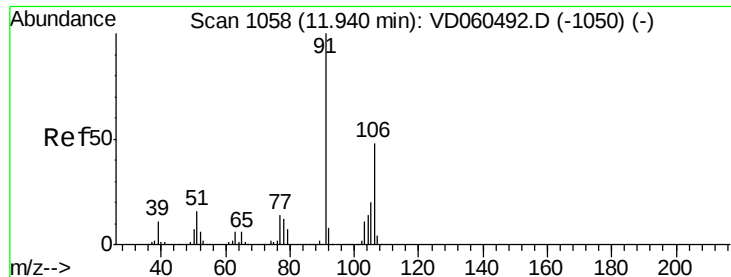
91 199.0 160.5 240.7



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC





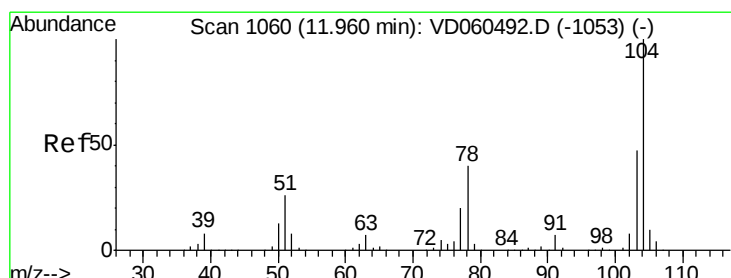
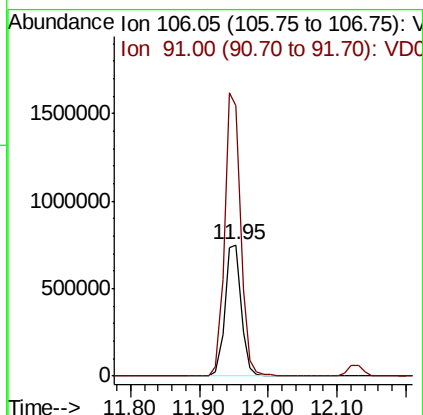
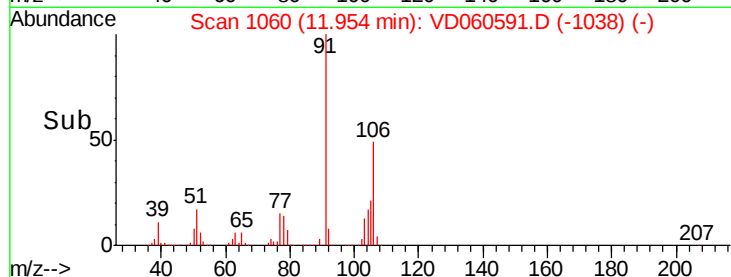
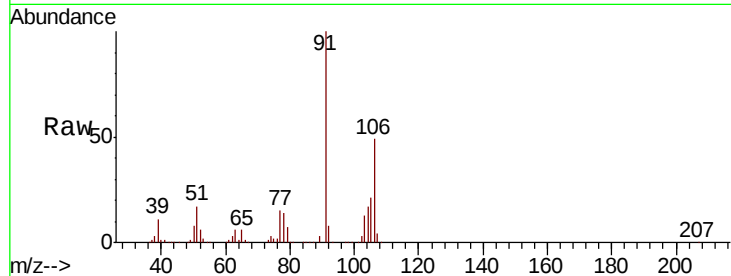
#69
o-Xylene
Concen: 53.158 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1227030
Ion Ratio Lower Upper
106 100
91 205.5 103.4 310.1

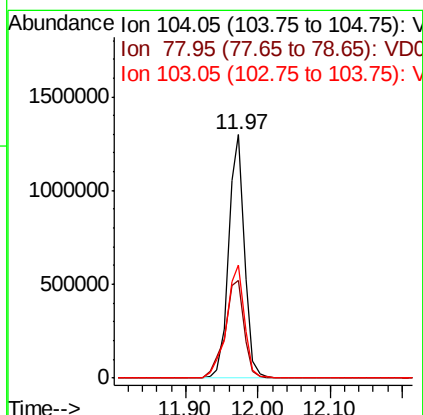
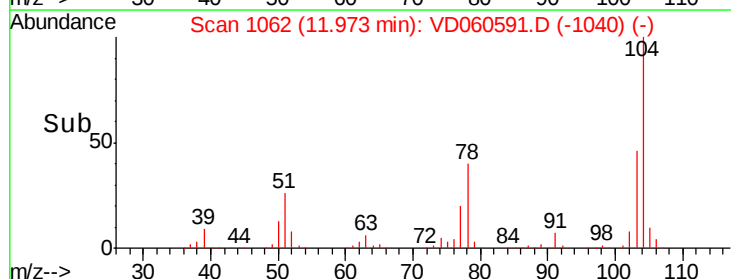
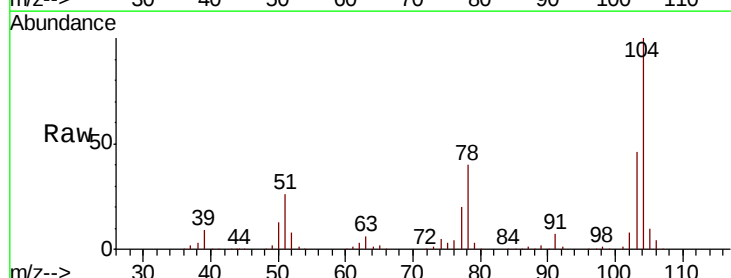
Manual Integrations
APPROVED

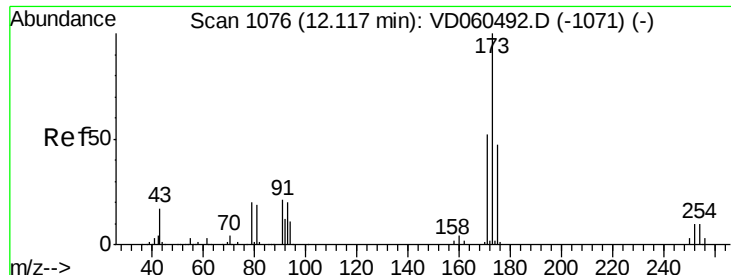
apatel
12/18/2018 3:30:50 PM



#70
Styrene
Concen: 53.312 ug/l
RT: 11.97 min Scan# 1062
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion:104 Resp: 1975250
Ion Ratio Lower Upper
104 100
78 40.0 32.1 48.1
103 46.4 37.2 55.8





#71

Bromoform

Concen: 56.513 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

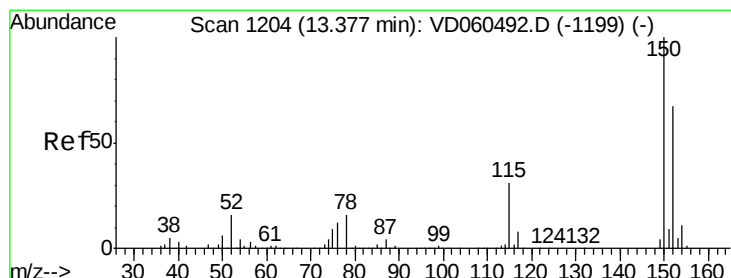
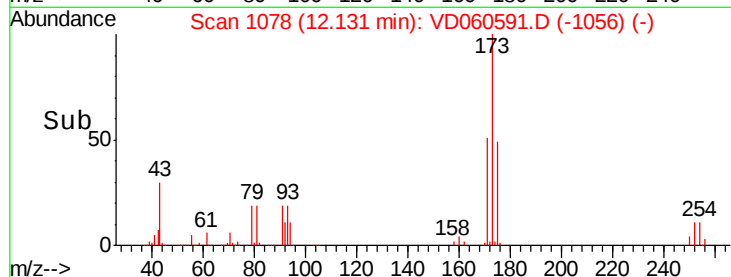
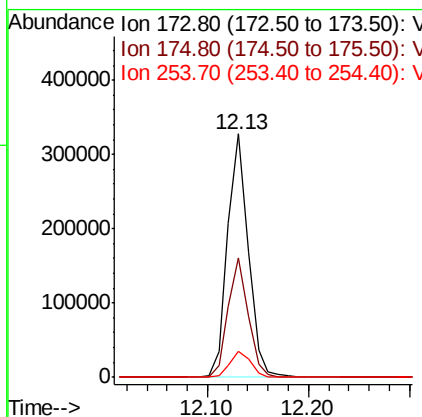
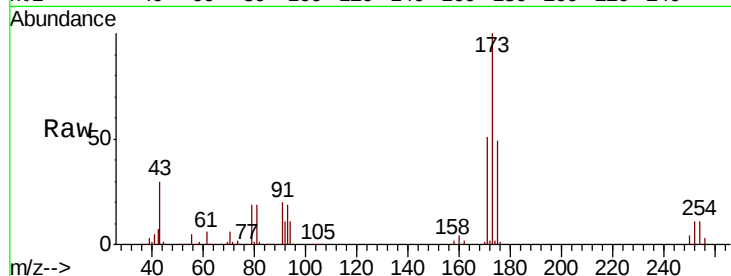
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	466447
Ion Ratio	Lower	Upper	
173	100		
175	49.1	23.5	70.6
254	10.6	7.8	11.8

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

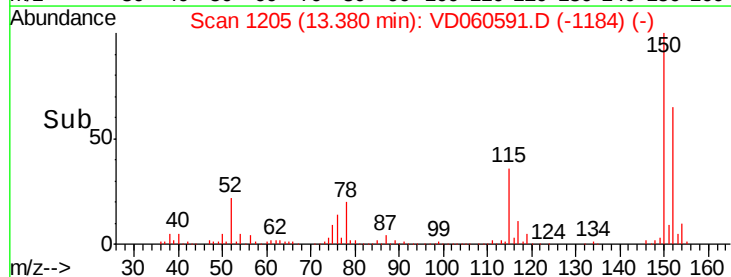
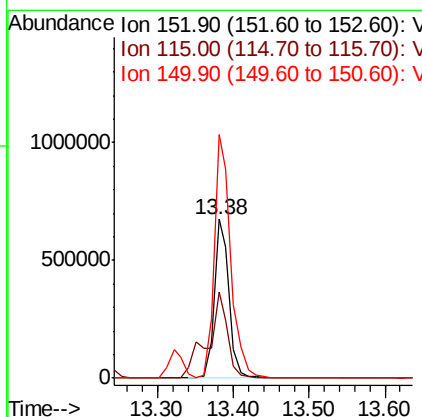
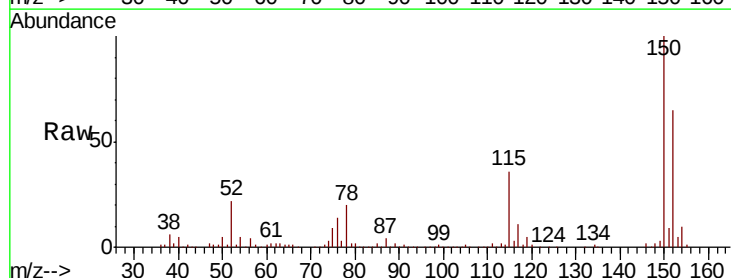
RT: 13.38 min Scan# 1205

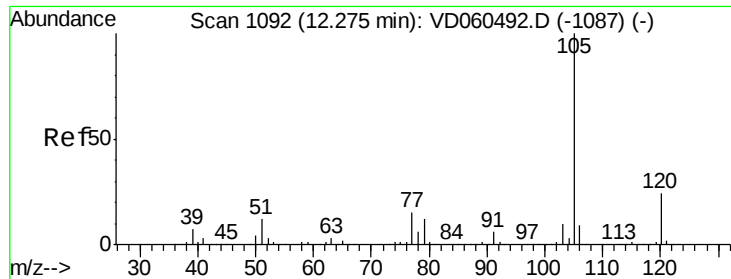
Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:	152	Resp:	925238
Ion Ratio	Lower	Upper	
152	100		
115	54.6	24.6	74.0
150	153.5	0.0	309.0





#73

Isopropylbenzene

Concen: 51.355 ug/l

RT: 12.29 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3362377

Ion Ratio Lower Upper

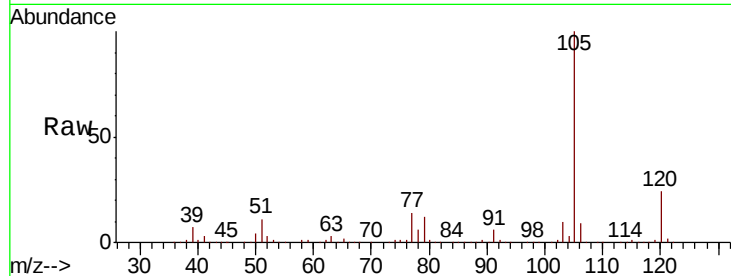
105 100

120 24.3 11.9 35.9

Manual Integrations
APPROVED

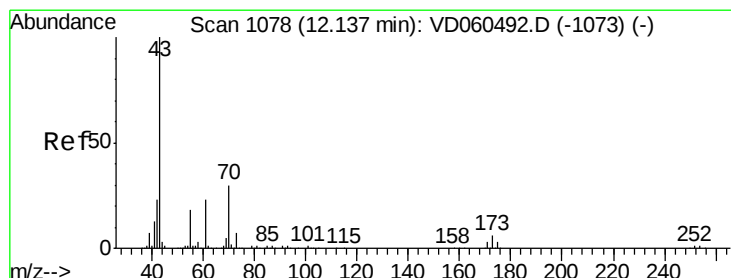
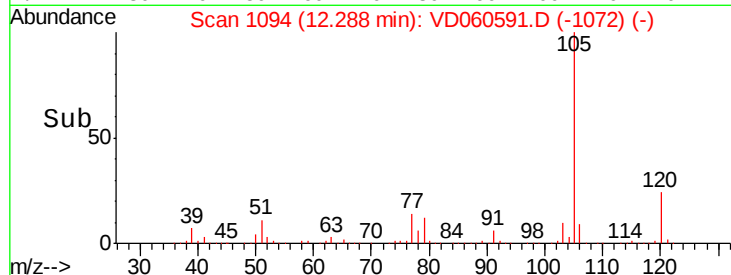
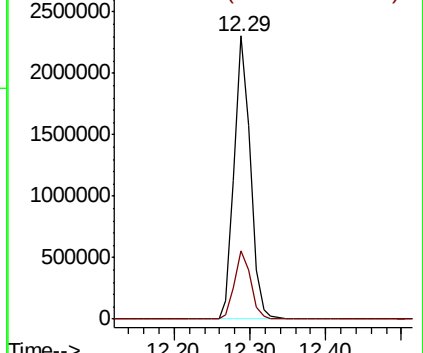
apatel

12/18/2018 3:30:50 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 54.190 ug/l

RT: 12.15 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion: 43 Resp: 857480

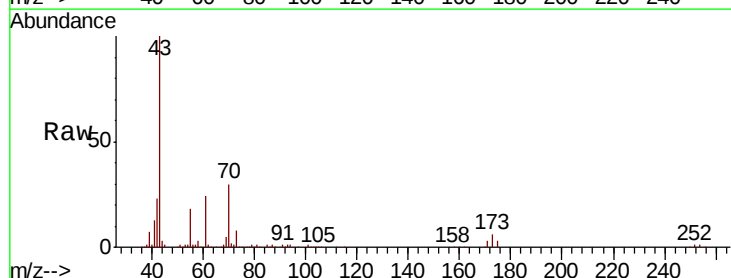
Ion Ratio Lower Upper

43 100

70 30.1 23.8 35.8

55 17.9 14.2 21.2

61 23.6 18.1 27.1

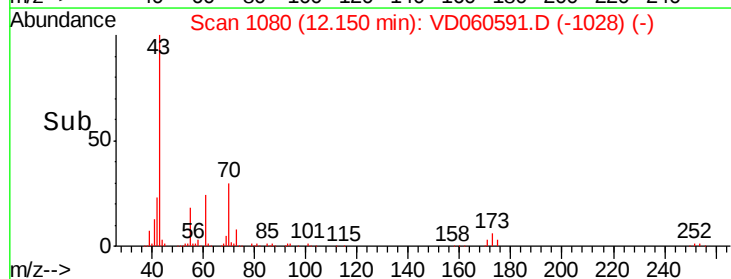
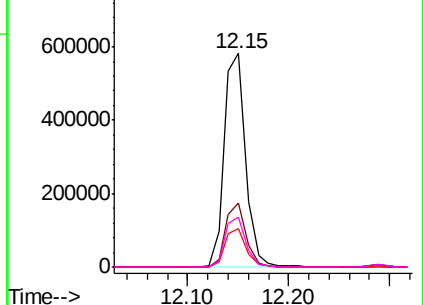


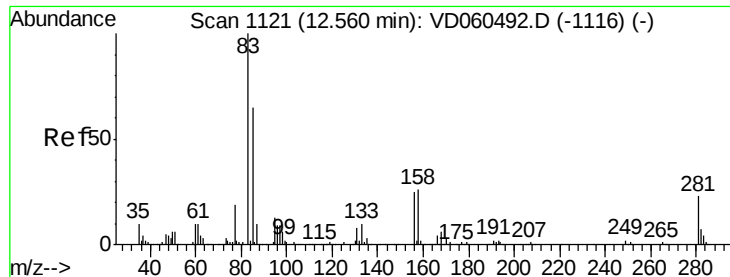
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 53.820 ug/l

RT: 12.57 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 564134

Ion Ratio Lower Upper

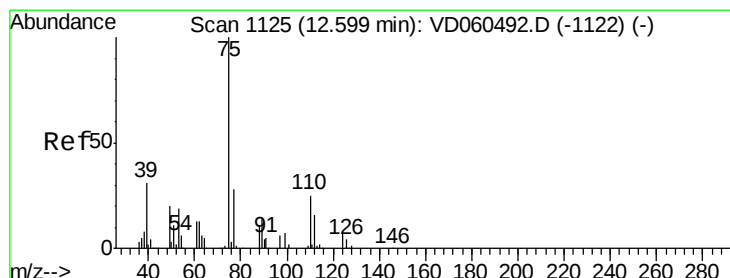
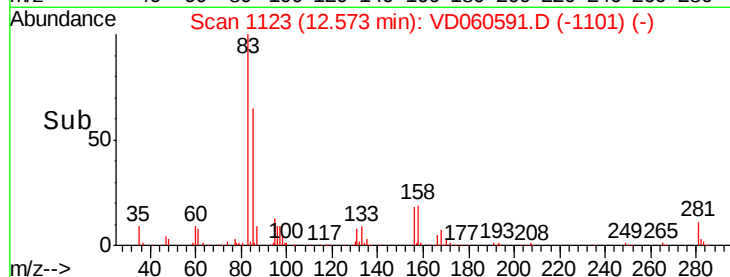
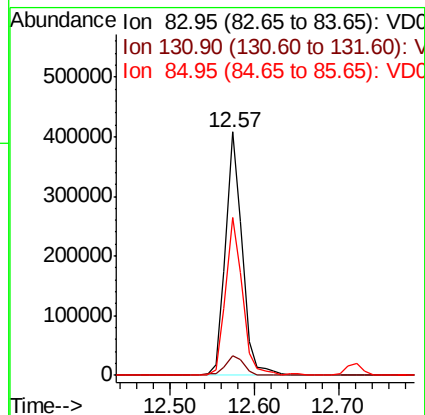
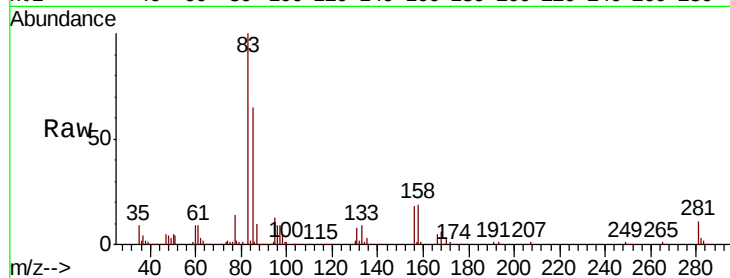
83 100

131 8.3 3.8 11.4

85 64.8 32.3 96.9

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



#76

1,2,3-Trichloropropane

Concen: 53.536 ug/l

RT: 12.61 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD060591.D

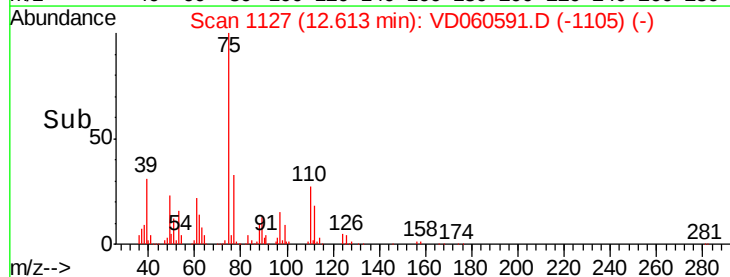
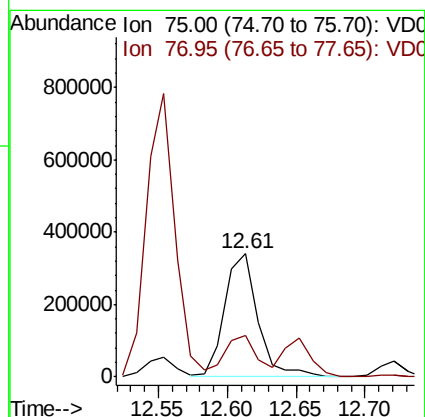
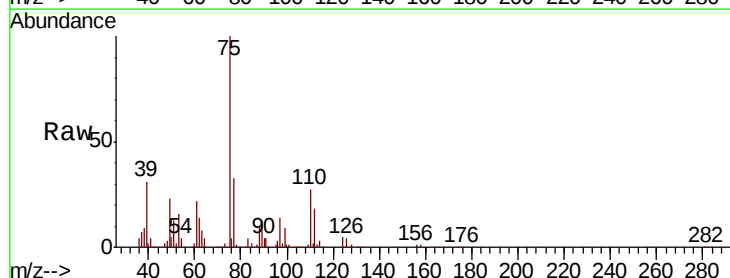
Acq: 17 Dec 2018 10:58

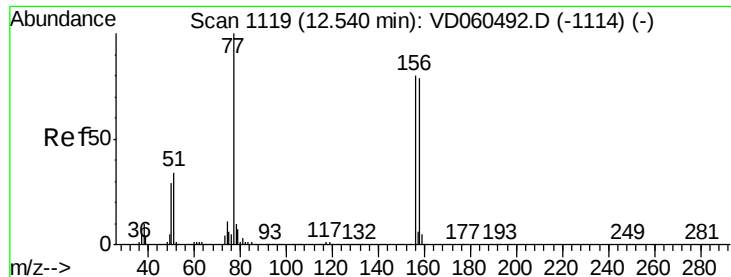
Tgt Ion: 75 Resp: 561241

Ion Ratio Lower Upper

75 100

77 33.4 16.4 49.4





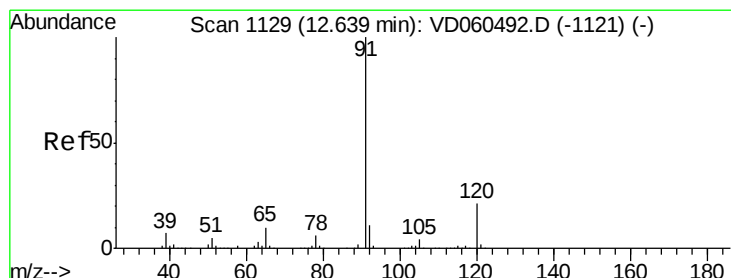
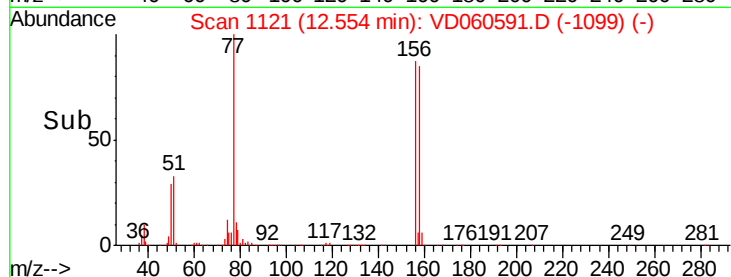
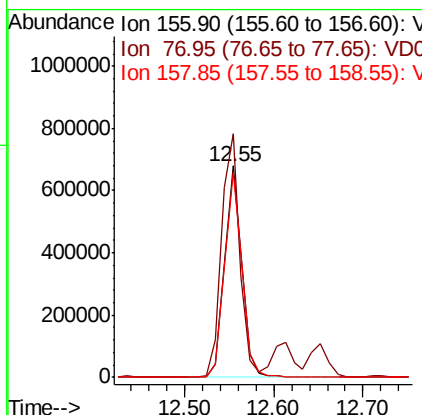
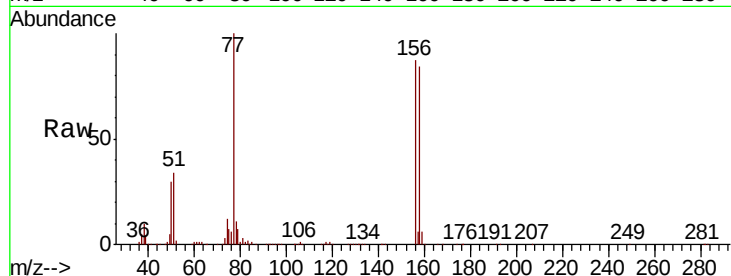
#77
Bromobenzene
Concen: 54.490 ug/l
RT: 12.55 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	115.3	62.5	187.6
158	97.2	49.4	148.2

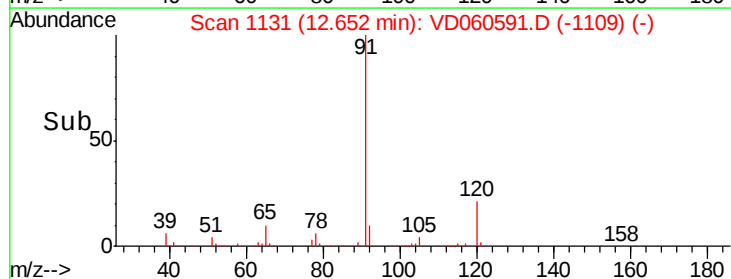
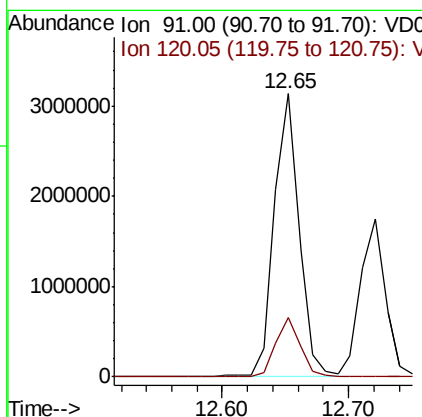
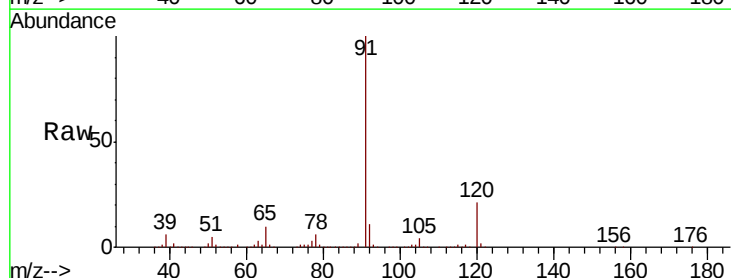
Manual Integrations
APPROVED

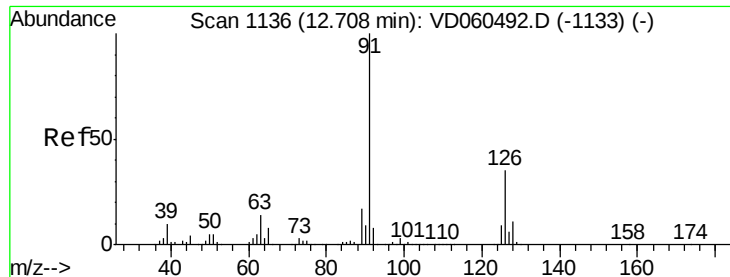
apatel
12/18/2018 3:30:50 PM



#78
n-propylbenzene
Concen: 52.328 ug/l
RT: 12.65 min Scan# 1131
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.4	31.1





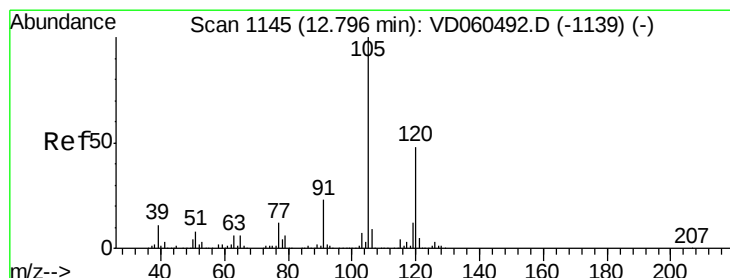
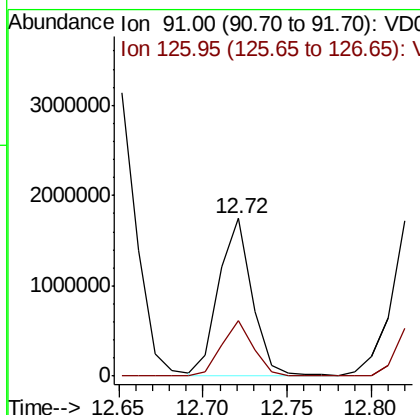
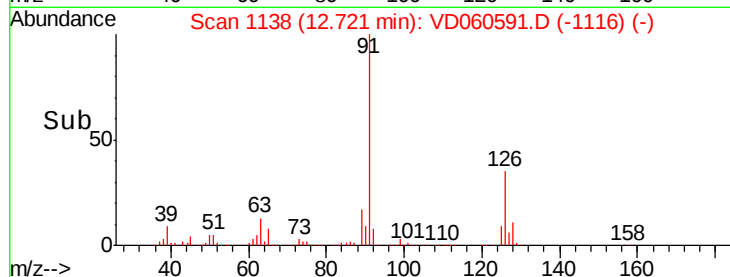
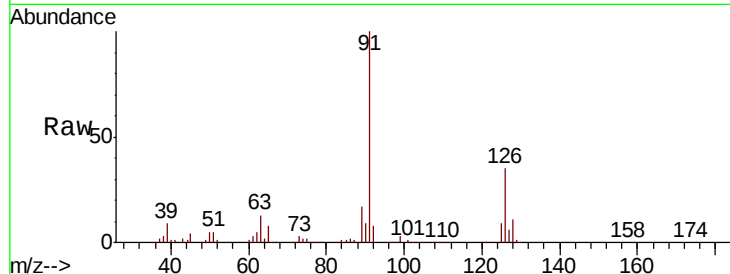
#79
2-Chlorotoluene
Concen: 53.020 ug/l
RT: 12.72 min Scan# 1138
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2381169
Ion Ratio Lower Upper
91 100
126 35.1 17.3 52.0

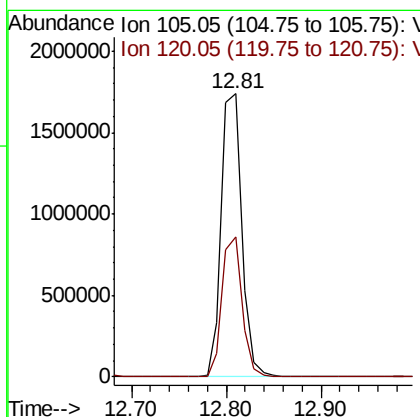
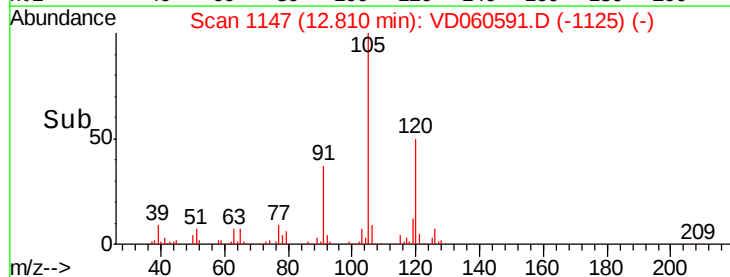
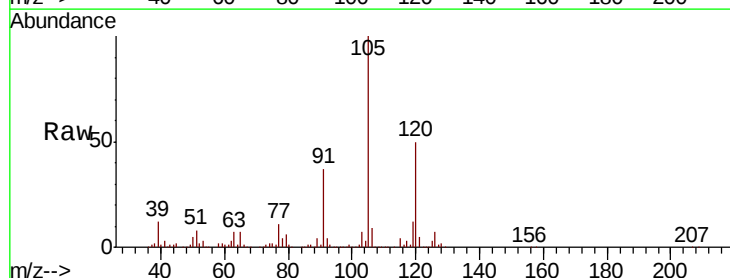
Manual Integrations
APPROVED

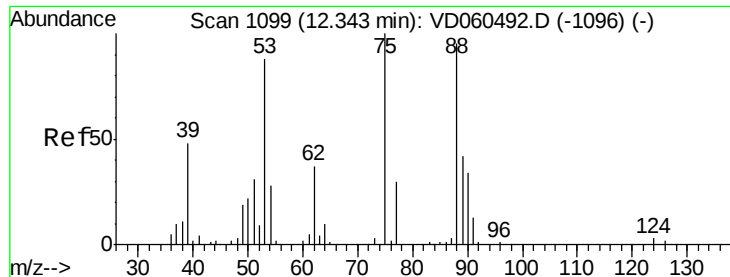
apatel
12/18/2018 3:30:50 PM



#80
1,3,5-Trimethylbenzene
Concen: 52.105 ug/l
RT: 12.81 min Scan# 1147
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 105 Resp: 2606771
Ion Ratio Lower Upper
105 100
120 49.6 24.2 72.6





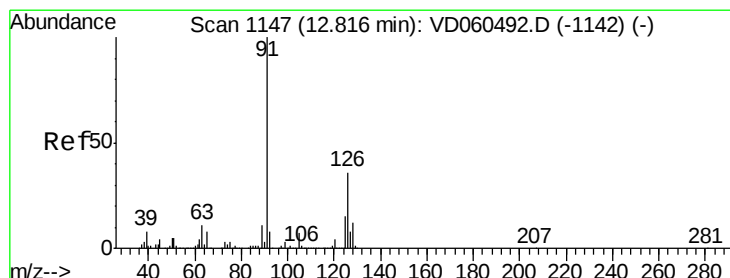
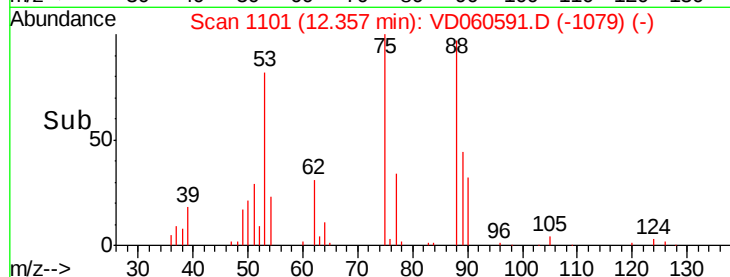
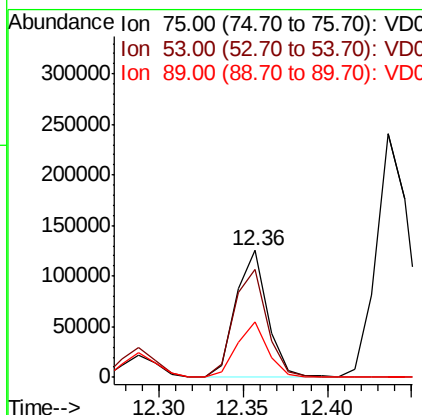
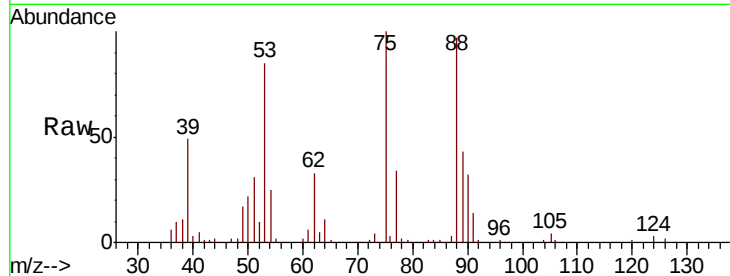
#81
trans-1,4-Dichloro-2-butene
Concen: 56.004 ug/l
RT: 12.36 min Scan# 1101
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 163749
Ion Ratio Lower Upper
75 100
53 85.5 70.5 105.7
89 43.3 33.6 50.4

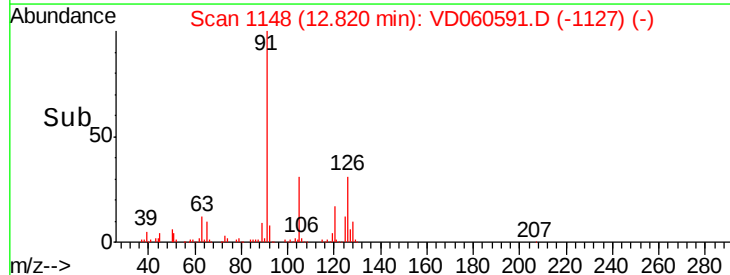
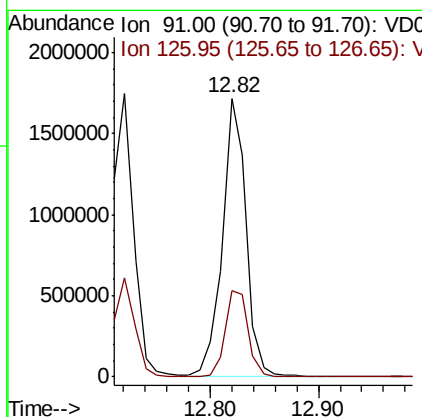
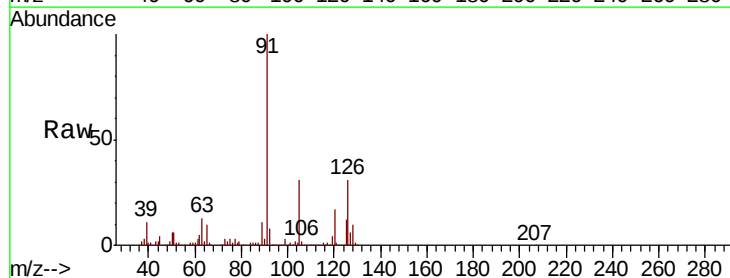
Manual Integrations
APPROVED

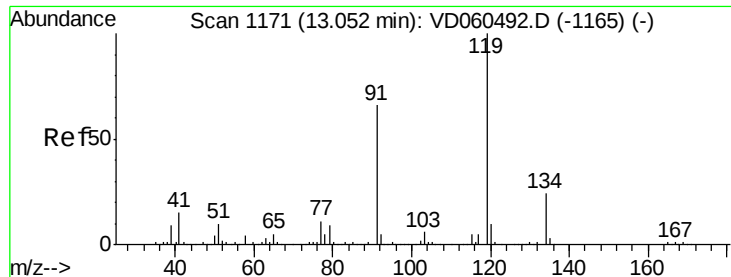
apatel
12/18/2018 3:30:50 PM



#82
4-Chlorotoluene
Concen: 51.208 ug/l
RT: 12.82 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 91 Resp: 2582989
Ion Ratio Lower Upper
91 100
126 31.2 17.8 53.4





#83

tert-Butylbenzene

Concen: 55.237 ug/l

RT: 13.06 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 3098507

Ion Ratio Lower Upper

119 100

91 72.3 33.1 99.2

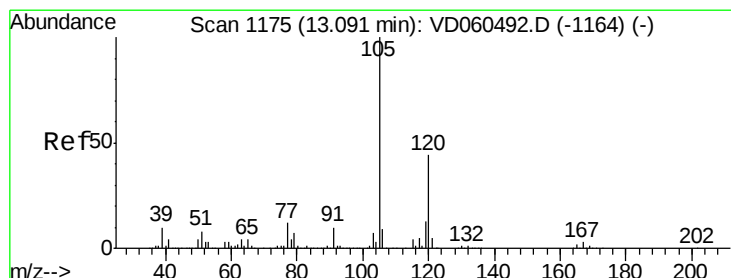
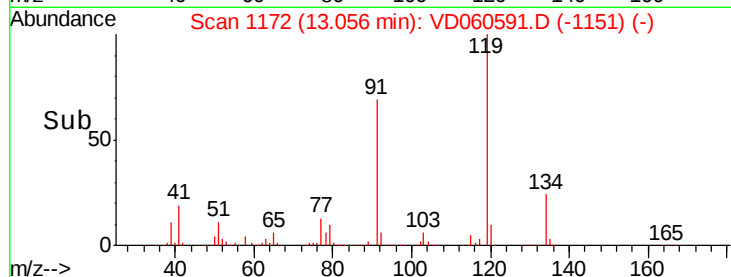
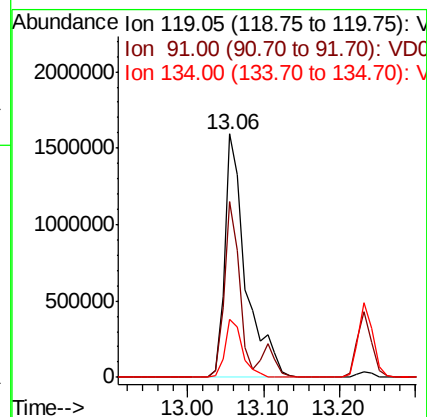
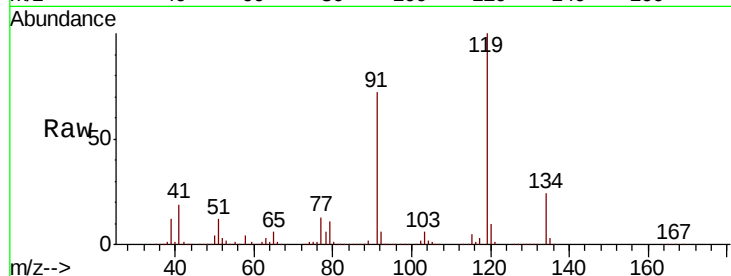
134 23.9 12.0 36.0

Manual Integrations

APPROVED

apatel

12/18/2018 3:30:50 PM



#84

1,2,4-Trimethylbenzene

Concen: 52.479 ug/l

RT: 13.10 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VD060591.D

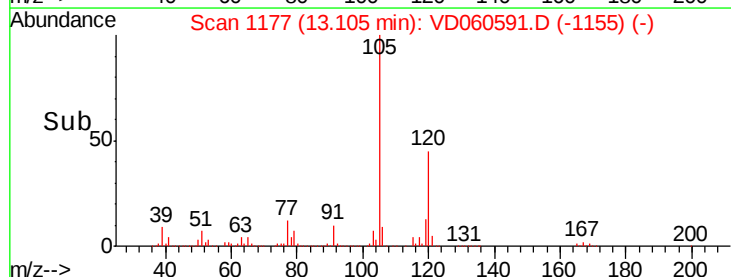
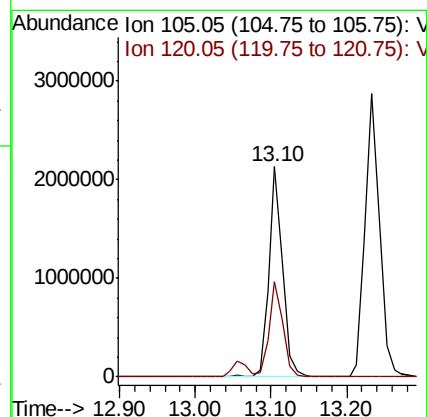
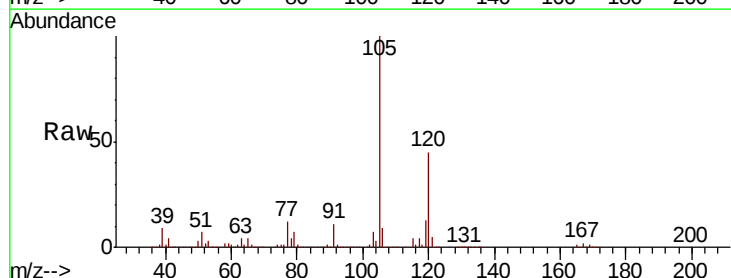
Acq: 17 Dec 2018 10:58

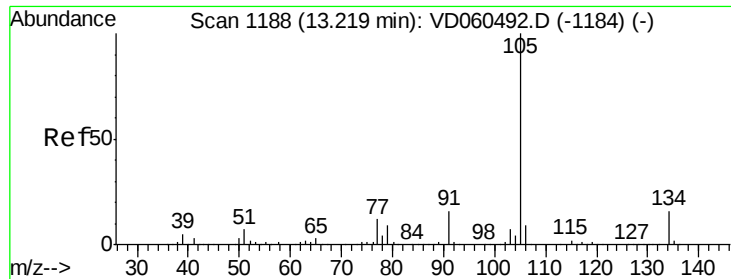
Tgt Ion:105 Resp: 2718540

Ion Ratio Lower Upper

105 100

120 45.3 22.3 66.8





#85

sec-Butylbenzene

Concen: 53.997 ug/l

RT: 13.23 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3775193

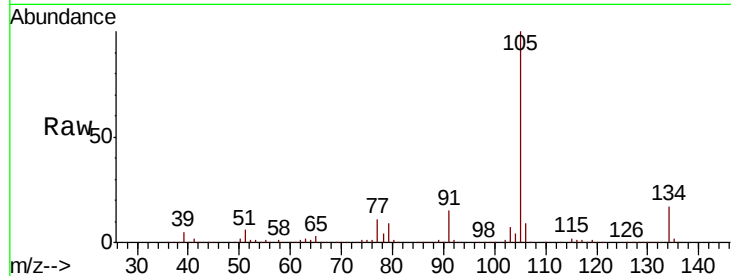
Ion Ratio Lower Upper

105 100

134 17.1 7.9 23.7

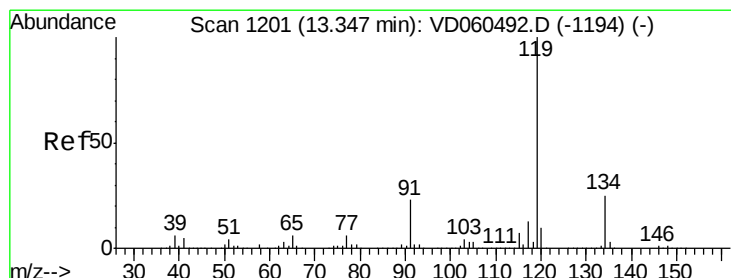
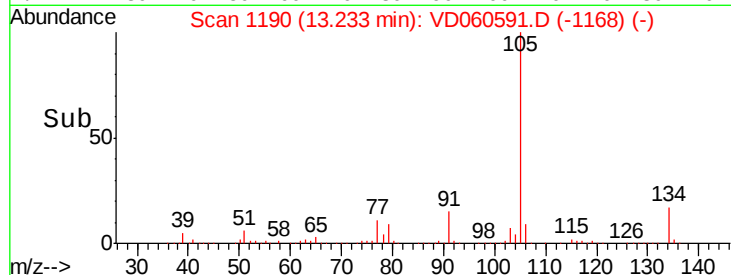
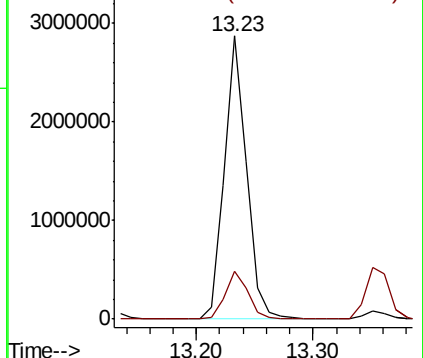
Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 53.604 ug/l

RT: 13.35 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

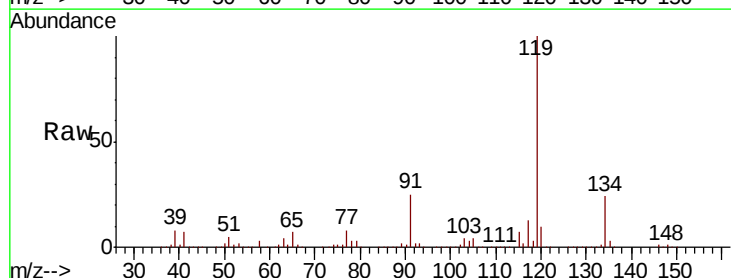
Tgt Ion:119 Resp: 2970863

Ion Ratio Lower Upper

119 100

134 24.1 12.5 37.5

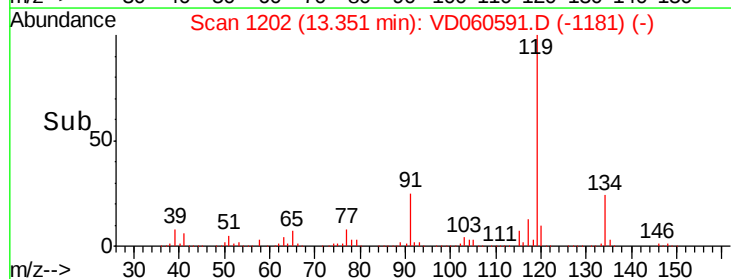
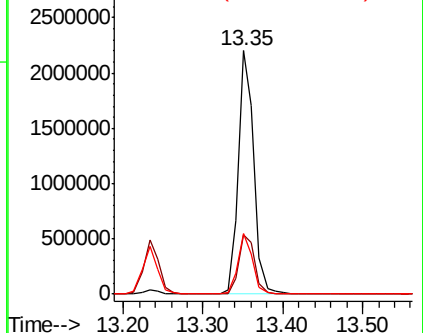
91 24.7 11.5 34.4

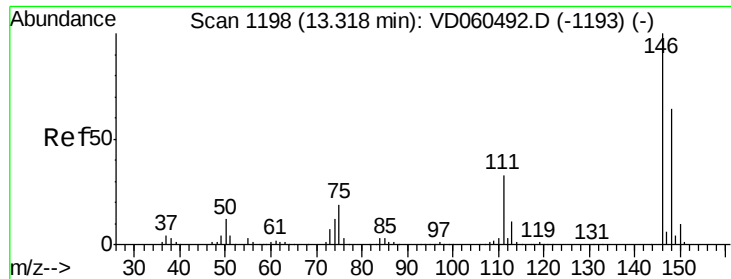


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





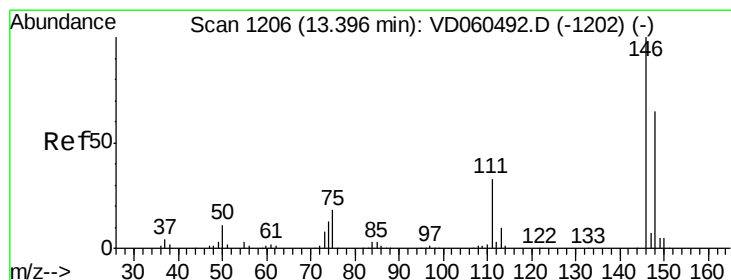
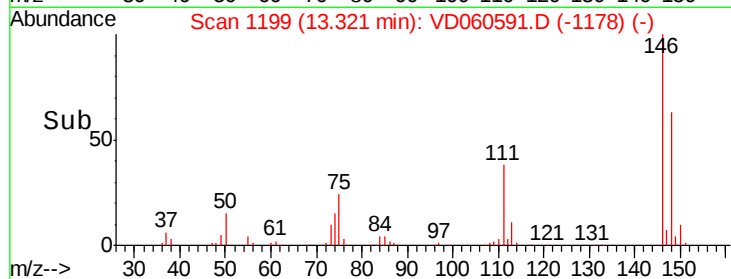
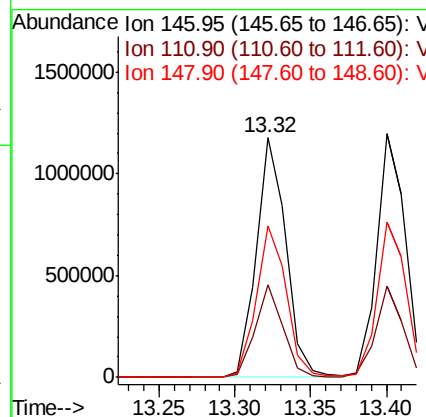
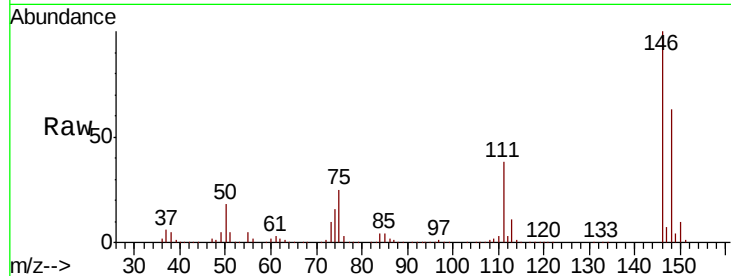
#87
 1,3-Dichlorobenzene
 Concen: 51.327 ug/l
 RT: 13.32 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	16.5	49.5
148	63.3	32.3	96.8

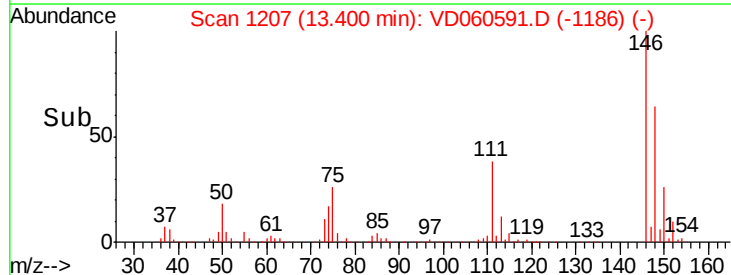
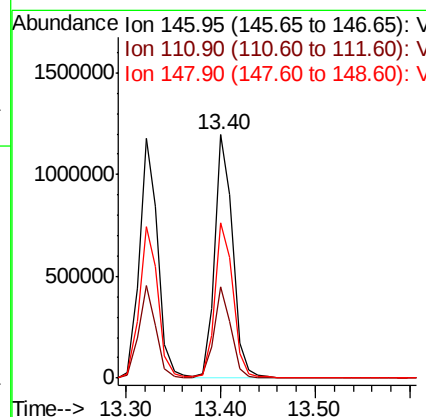
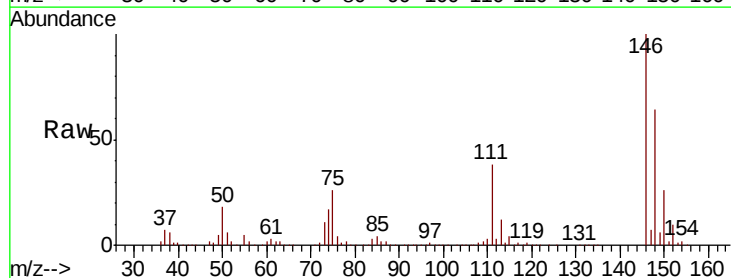
Manual Integrations
 APPROVED

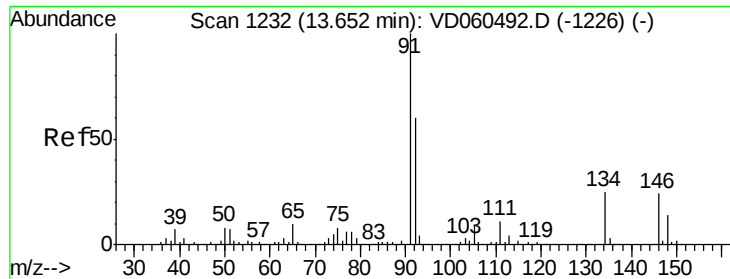
apatel
 12/18/2018 3:30:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 52.182 ug/l
 RT: 13.40 min Scan# 1207
 Delta R.T. 0.00 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	16.4	49.1
148	64.0	32.6	98.0





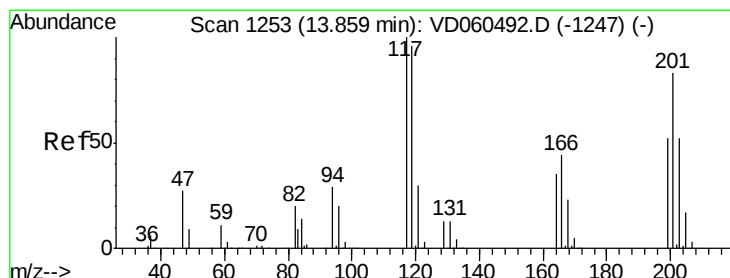
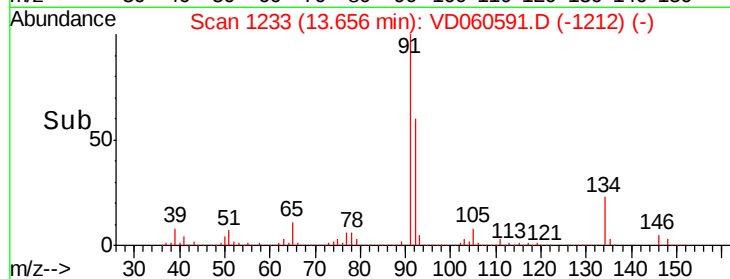
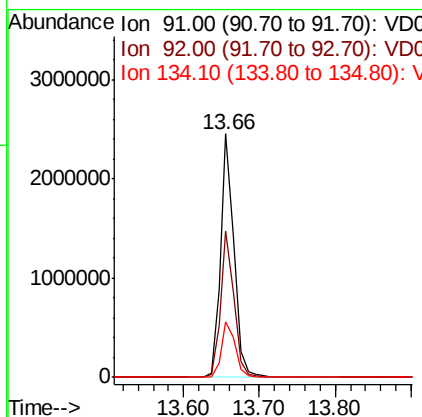
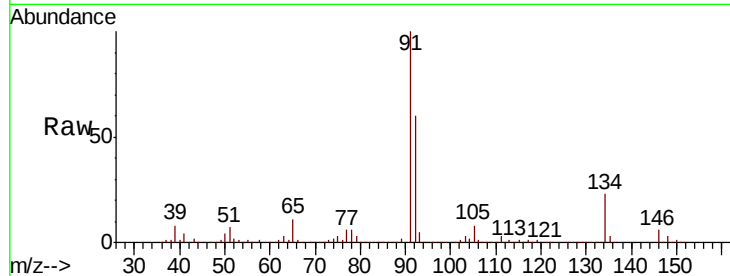
#89
n-Butylbenzene
Concen: 57.904 ug/l
RT: 13.66 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 3078052
Ion Ratio Lower Upper
91 100
92 60.2 30.0 90.1
134 22.6 12.5 37.5

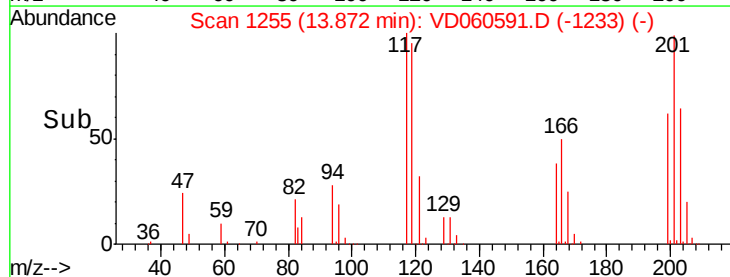
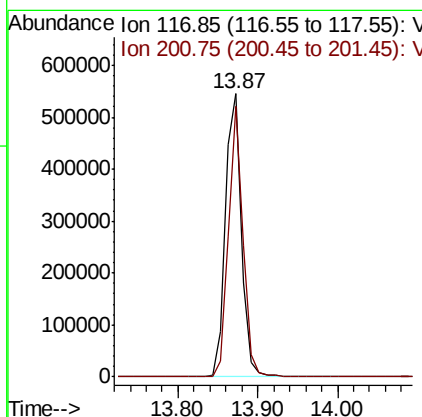
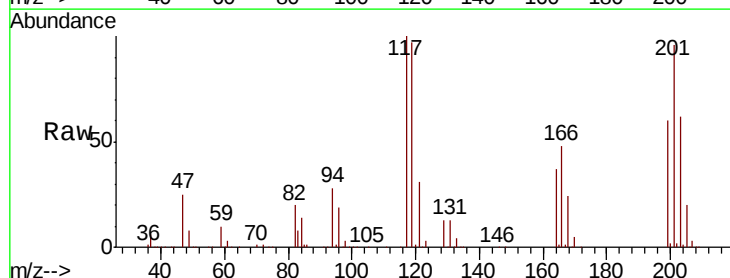
Manual Integrations
APPROVED

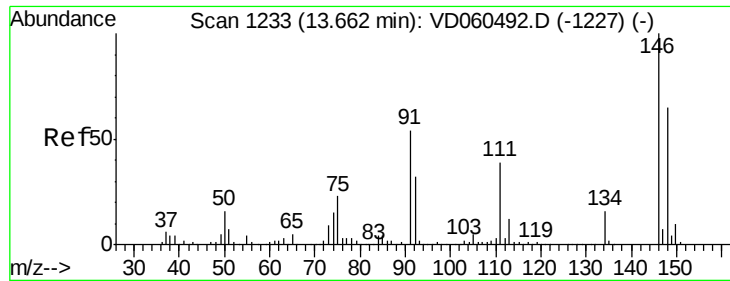
apatel
12/18/2018 3:30:50 PM



#90
Hexachloroethane
Concen: 55.939 ug/l
RT: 13.87 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD060591.D
Acq: 17 Dec 2018 10:58

Tgt Ion: 117 Resp: 777319
Ion Ratio Lower Upper
117 100
201 95.8 41.3 123.9





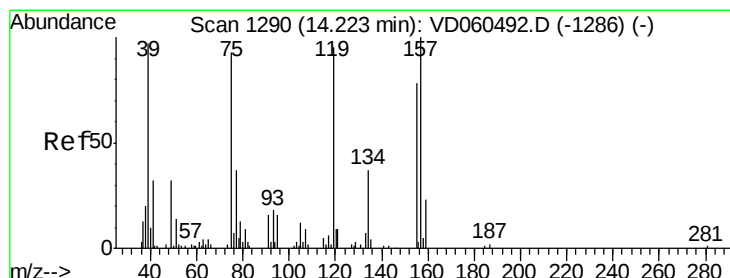
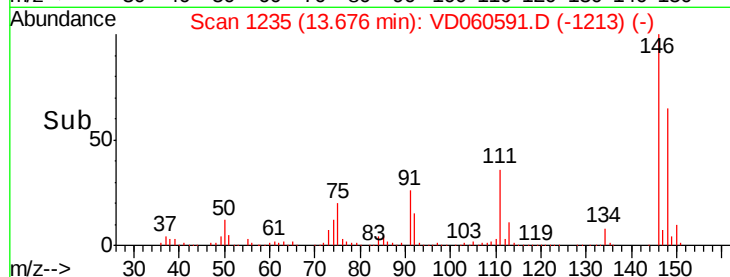
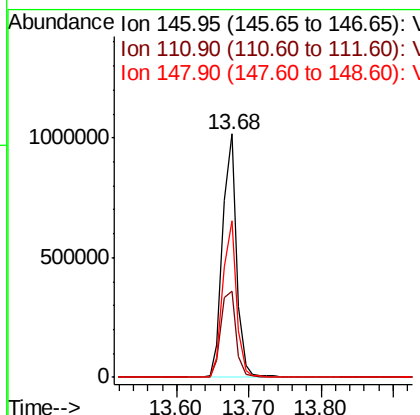
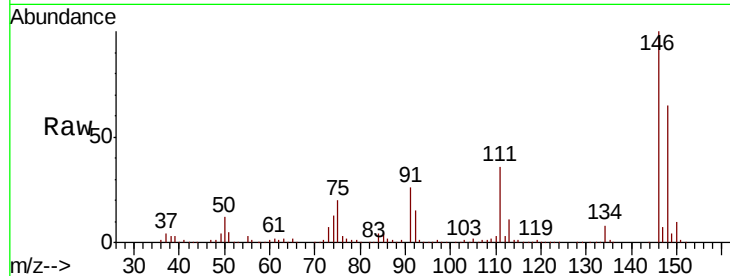
#91
 1,2-Dichlorobenzene
 Concen: 52.911 ug/l
 RT: 13.68 min Scan# 1235
 Delta R.T. 0.01 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1347383
 Ion Ratio Lower Upper
 146 100
 111 35.6 19.3 57.8
 148 64.6 32.3 96.8

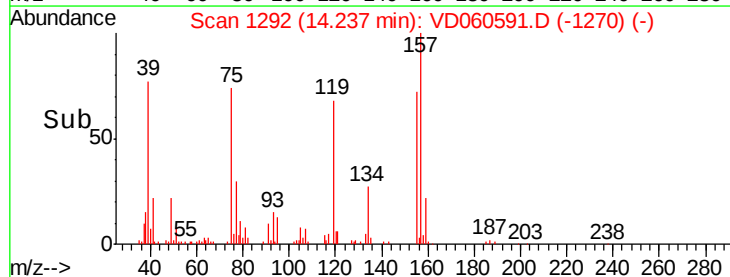
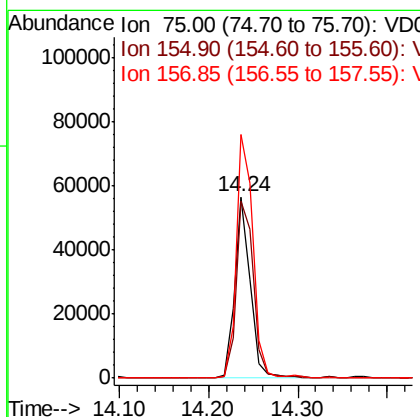
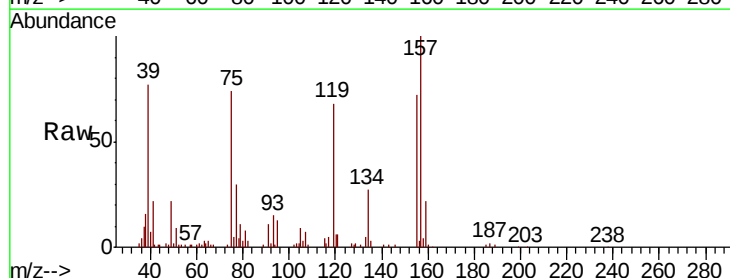
Manual Integrations
 APPROVED

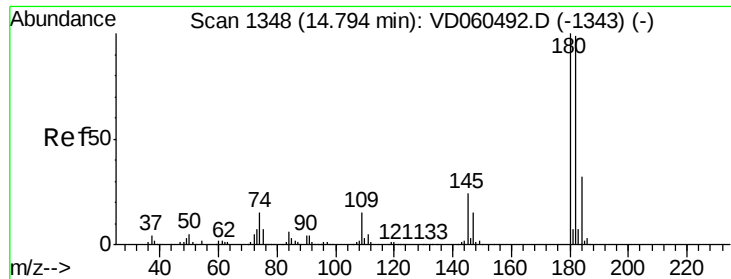
apatel
 12/18/2018 3:30:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.640 ug/l
 RT: 14.24 min Scan# 1292
 Delta R.T. 0.01 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion: 75 Resp: 70666
 Ion Ratio Lower Upper
 75 100
 155 97.6 41.6 124.9
 157 134.6 53.6 160.8





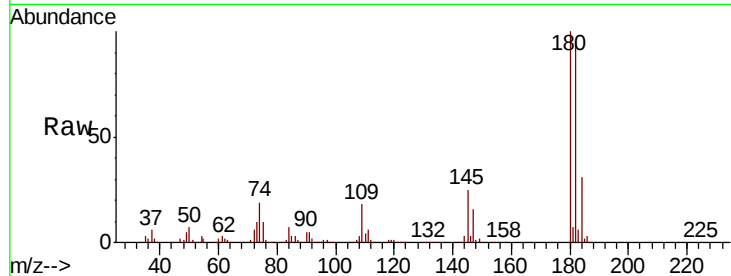
#93
 1,2,4-Trichlorobenzene
 Concen: 55.044 ug/l
 RT: 14.80 min Scan# 1349
 Delta R.T. 0.00 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	49.4	148.0
145	25.2	11.9	35.9

Manual Integrations
 APPROVED

apatel
 12/18/2018 3:30:50 PM

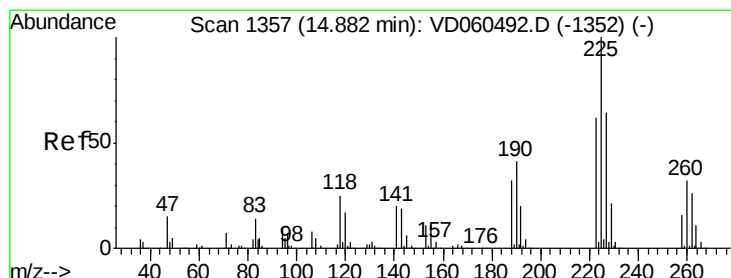
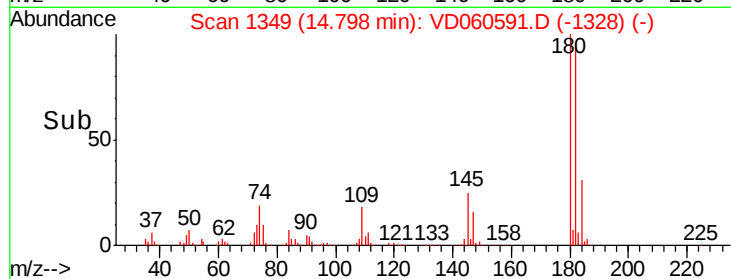
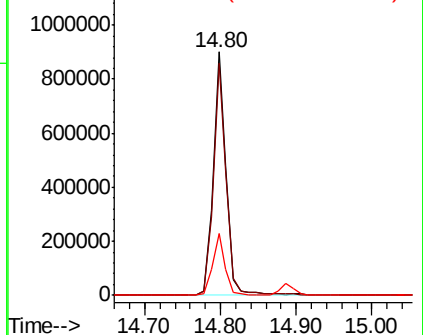


Abundance

Ion 179.85 (179.55 to 180.55): V

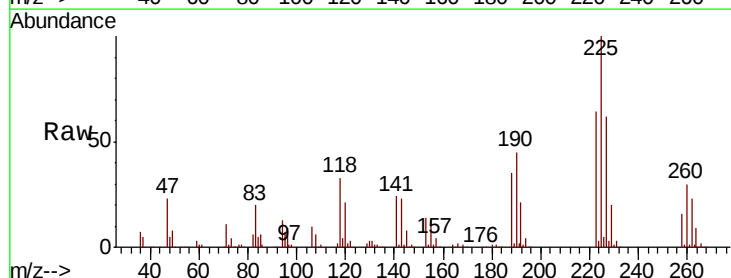
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94
 Hexachlorobutadiene
 Concen: 56.723 ug/l
 RT: 14.89 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VD060591.D
 Acq: 17 Dec 2018 10:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.2	93.6
227	62.1	32.0	96.0

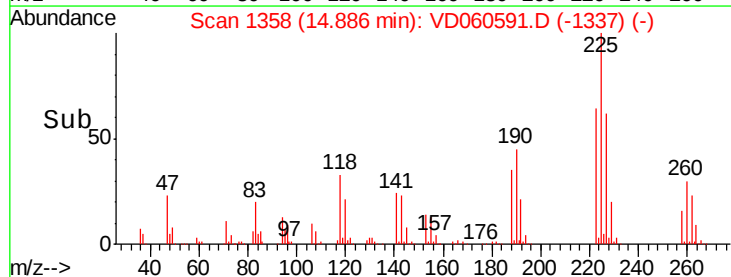
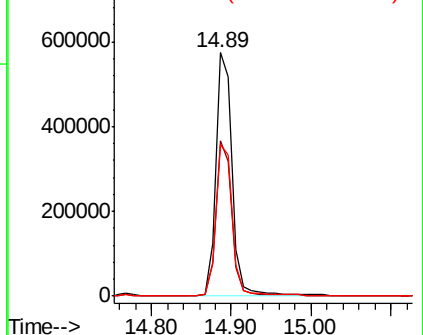


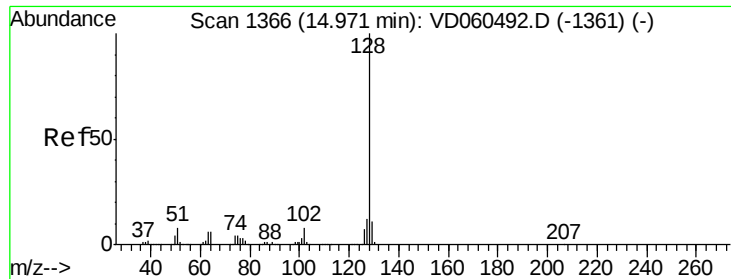
Abundance

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: 55.634 ug/l

RT: 14.97 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Instrument :

MSVOA_D

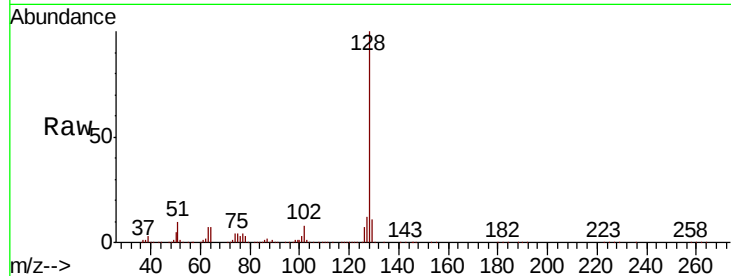
ClientSampleId :

VSTDCCC050

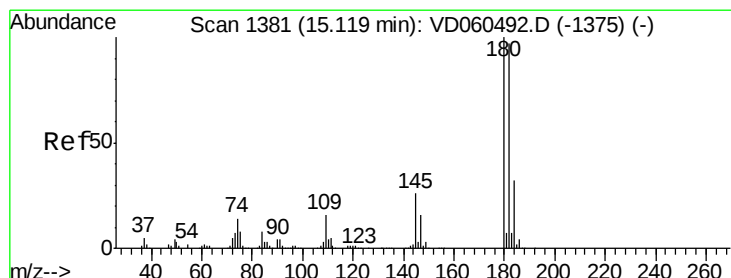
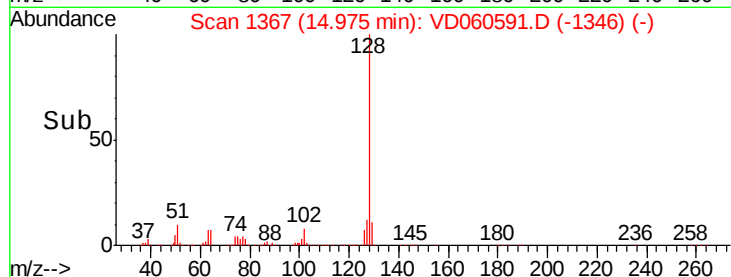
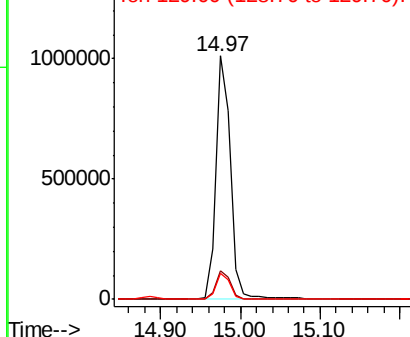
Tot Ion:	128	Resp:	1317520
Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.8
129	10.9	8.6	13.0

Manual Integrations
APPROVED

apatel
12/18/2018 3:30:50 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 53.988 ug/l

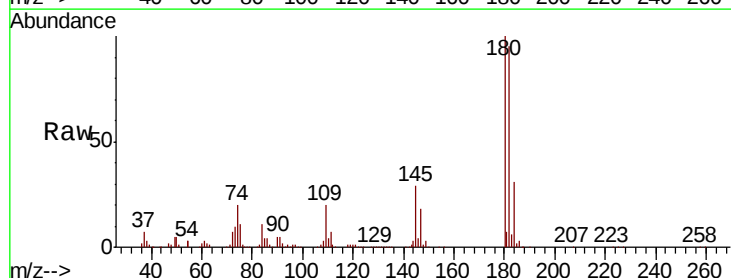
RT: 15.12 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VD060591.D

Acq: 17 Dec 2018 10:58

Tgt Ion:	180	Resp:	856338
Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.5	145.5
145	28.8	12.9	38.7



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

