

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD120518\
 Data File : VD060494.D
 Acq On : 5 Dec 2018 16:01
 Operator : VA/AP
 Sample : VSTDICC100
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 12/6/2018 10:53:46 AM

Quant Time: Dec 06 01:03:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 00:38:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.42	168	1606993	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	2317977	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1757165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	901198	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	1137009	99.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	198.12%	
35) Dibromofluoromethane	6.33	113	1660406	96.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	193.92%	
50) Toluene-d8	9.46	98	4652060	92.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	185.04%	
62) 4-Bromofluorobenzene	12.43	95	1676757	92.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	184.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.61	85	1413348	95.308	ug/l	98
3) Chloromethane	1.77	50	1444638	93.819	ug/l	97
4) Vinyl Chloride	1.86	62	1219530	97.199	ug/l	99
5) Bromomethane	2.16	94	211982	70.181	ug/l	97
6) Chloroethane	2.27	64	312956	75.894	ug/l	94
7) Trichlorofluoromethane	2.52	101	1297937	87.588	ug/l	97
8) Diethyl Ether	2.84	74	248676	93.387	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.10	101	859571	89.379	ug/l	98
10) Methyl Iodide	3.26	142	1108454	89.310	ug/l	99
11) Tert butyl alcohol	3.99	59	237833	505.851	ug/l	100
12) 1,1-Dichloroethene	3.08	96	695272	88.805	ug/l	97
13) Acrolein	2.99	56	246085	448.064	ug/l	91
14) Allyl chloride	3.54	41	1431896	95.221	ug/l	99
15) Acrylonitrile	4.10	53	1302651	474.796	ug/l	97
16) Acetone	3.17	43	877836	441.766	ug/l	99
17) Carbon Disulfide	3.33	76	2373155	93.341	ug/l	100
18) Methyl Acetate	3.56	43	408470	94.899	ug/l	100
19) Methyl tert-butyl Ether	4.14	73	2214284	94.781	ug/l	100
20) Methylene Chloride	3.73	84	1606475	89.984	ug/l	95
21) trans-1,2-Dichloroethene	4.11	96	1622629	92.873	ug/l	97
22) Diisopropyl ether	4.86	45	5331086	95.359	ug/l	99
23) Vinyl Acetate	4.81	43	13331812	477.502	ug/l	100
24) 1,1-Dichloroethane	4.76	63	2679185	93.129	ug/l	99
25) 2-Butanone	5.63	43	1833898	448.961	ug/l	99
26) 2,2-Dichloropropane	5.59	77	1992174	89.507	ug/l	99
27) cis-1,2-Dichloroethene	5.60	96	1694521	93.510	ug/l	99
28) Bromochloromethane	5.94	49	1223943	96.430	ug/l	99
29) Tetrahydrofuran	5.97	42	1008032	462.945	ug/l	99
30) Chloroform	6.11	83	2649329	92.106	ug/l	100
31) Cyclohexane	6.38	56	2294446	83.773	ug/l	97
32) 1,1,1-Trichloroethane	6.30	97	2218193	91.823	ug/l	98
36) 1,1-Dichloropropene	6.53	75	1954877	85.312	ug/l	99
37) Ethyl Acetate	5.71	43	986602	94.011	ug/l	99
38) Carbon Tetrachloride	6.51	117	1814884	85.857	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD120518\
 Data File : VD060494.D
 Acq On : 5 Dec 2018 16:01
 Operator : VA/AP
 Sample : VSTDICC100
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 12/6/2018 10:53:46 AM

Quant Time: Dec 06 01:03:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 00:38:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	2295014	87.328	ug/l	99
40) Benzene	6.80	78	5233204	89.750	ug/l	100
41) Methacrylonitrile	5.94	41	462422m	42.627	ug/l	
42) 1,2-Dichloroethane	6.90	62	1408430	92.831	ug/l	100
43) Isopropyl Acetate	8.36	43	1278963	97.846	ug/l #	98
44) Trichloroethene	7.75	130	1648896	93.215	ug/l	99
45) 1,2-Dichloropropane	8.11	63	1357547	92.537	ug/l	99
46) Dibromomethane	8.22	93	814140	94.575	ug/l	98
47) Bromodichloromethane	8.49	83	1902750	94.189	ug/l	99
48) Methyl methacrylate	8.25	41	756202	94.852	ug/l	98
49) 1,4-Dioxane	8.24	88	141241	2028.148	ug/l	94
51) 4-Methyl-2-Pentanone	9.35	43	3748516	440.049	ug/l	98
52) Toluene	9.56	92	3267508	87.824	ug/l	100
53) t-1,3-Dichloropropene	9.92	75	1611430	94.838	ug/l	100
54) cis-1,3-Dichloropropene	9.10	75	2088015	95.023	ug/l	99
55) 1,1,2-Trichloroethane	10.19	97	976263	90.617	ug/l	99
56) Ethyl methacrylate	10.03	69	975202	99.128	ug/l	99
57) 1,3-Dichloropropane	10.38	76	1520742	92.991	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.93	63	2583269	436.411	ug/l	99
59) 2-Hexanone	10.49	43	2677039	443.408	ug/l	100
60) Dibromochloromethane	10.64	129	1275418	97.552	ug/l	99
61) 1,2-Dibromoethane	10.76	107	1036273	96.147	ug/l	100
64) Tetrachloroethene	10.26	164	1455795	92.545	ug/l	98
65) Chlorobenzene	11.32	112	3508784	92.432	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	1088685	87.698	ug/l	99
67) Ethyl Benzene	11.43	91	5321688	81.653	ug/l	99
68) m/p-Xylenes	11.56	106	3978527	165.899	ug/l	98
69) o-Xylene	11.94	106	2055838	88.823	ug/l	97
70) Styrene	11.96	104	3322370	88.364	ug/l	99
71) Bromoform	12.12	173	883568	105.573	ug/l	99
73) Isopropylbenzene	12.27	105	5548583	84.217	ug/l	99
74) N-amyl acetate	12.14	43	1623393	96.670	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.57	83	1000306	93.806	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	1013102	94.373	ug/l	99
77) Bromobenzene	12.54	156	1547224	88.823	ug/l	96
78) n-propylbenzene	12.64	91	6653275	81.431	ug/l	100
79) 2-Chlorotoluene	12.71	91	3867299	85.984	ug/l	99
80) 1,3,5-Trimethylbenzene	12.80	105	4068417	80.118	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	307023	100.394	ug/l	100
82) 4-Chlorotoluene	12.81	91	3996449	79.395	ug/l	99
83) tert-Butylbenzene	13.05	119	4624541	81.801	ug/l	96
84) 1,2,4-Trimethylbenzene	13.10	105	4290476	84.335	ug/l	98
85) sec-Butylbenzene	13.23	105	5880903	85.199	ug/l	96
86) p-Isopropyltoluene	13.35	119	4478587	80.693	ug/l	97
87) 1,3-Dichlorobenzene	13.32	146	2652335	85.667	ug/l	97
88) 1,4-Dichlorobenzene	13.40	146	2603669	86.276	ug/l	97
89) n-Butylbenzene	13.65	91	4310822	75.896	ug/l	99
90) Hexachloroethane	13.86	117	1262560	94.558	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	1981813	78.092	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.23	75	137217	106.926	ug/l #	43

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD120518\
Data File : VD060494.D
Acq On : 5 Dec 2018 16:01
Operator : VA/AP
Sample : VSTDICC100
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC100

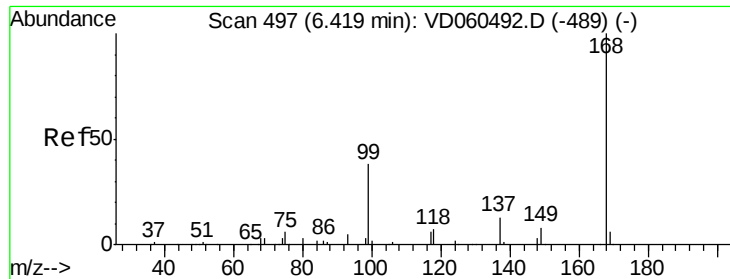
Manual Integrations
APPROVED

apatel
12/6/2018 10:53:46 AM

Quant Time: Dec 06 01:03:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 00:38:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	1802293	89.656	ug/l	99
94) Hexachlorobutadiene	14.88	225	1273362	85.041	ug/l	99
95) Naphthalene	14.97	128	2315470	93.840	ug/l	100
96) 1,2,3-Trichlorobenzene	15.12	180	1501678	93.478	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion:168 Resp: 1606993

Ion Ratio Lower Upper

168 100

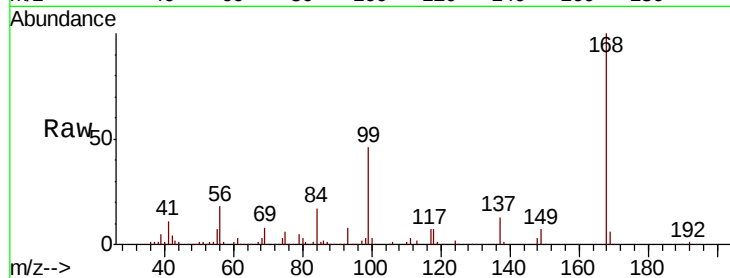
99 45.7 35.6 53.4

Manual Integrations

APPROVED

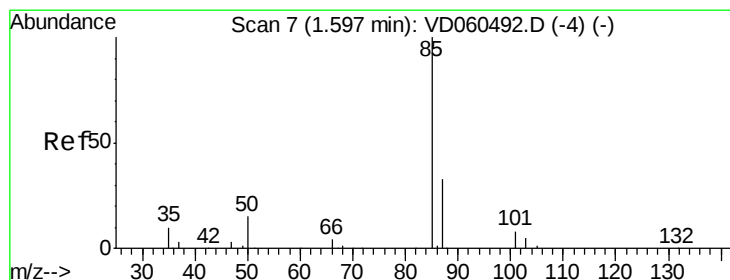
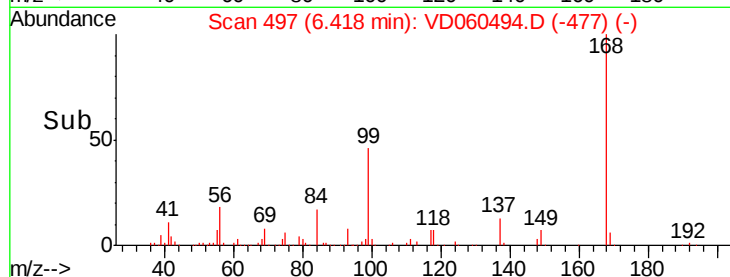
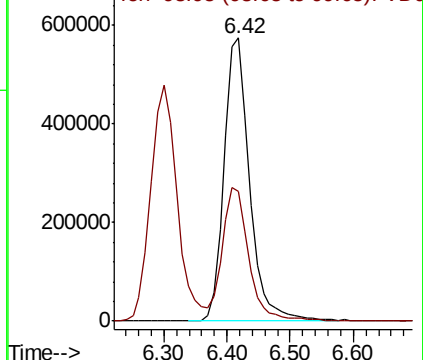
apatel

12/6/2018 10:53:46 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 95.308 ug/l

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060494.D

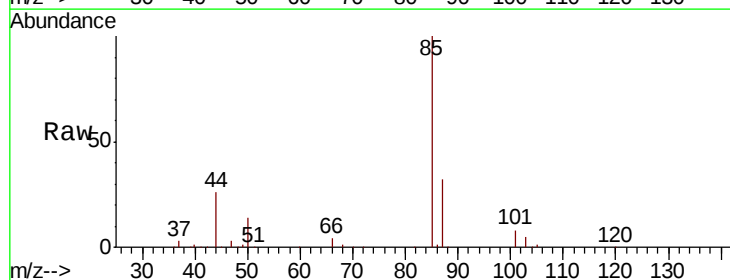
Acq: 5 Dec 2018 16:01

Tgt Ion: 85 Resp: 1413348

Ion Ratio Lower Upper

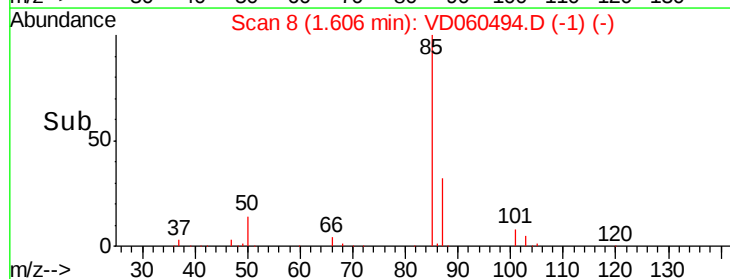
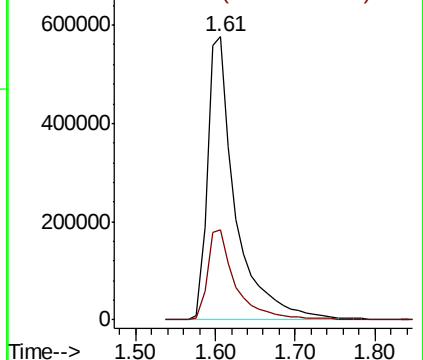
85 100

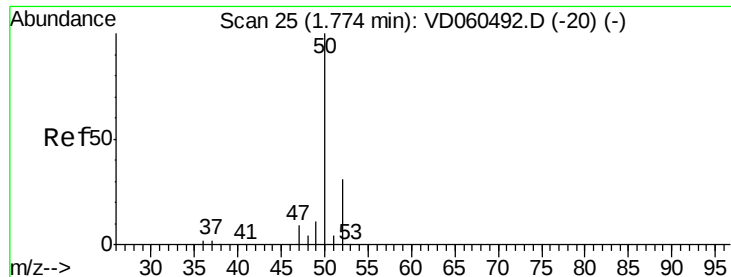
87 32.0 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 93.819 ug/l

RT: 1.77 min Scan# 25

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 50 Resp: 1444638

Ion Ratio Lower Upper

50 100

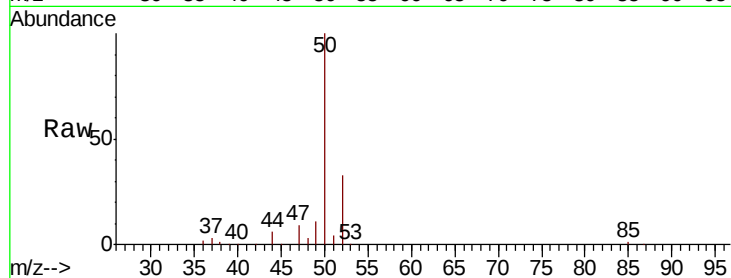
52 32.6 25.0 37.4

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.77

500000

400000

300000

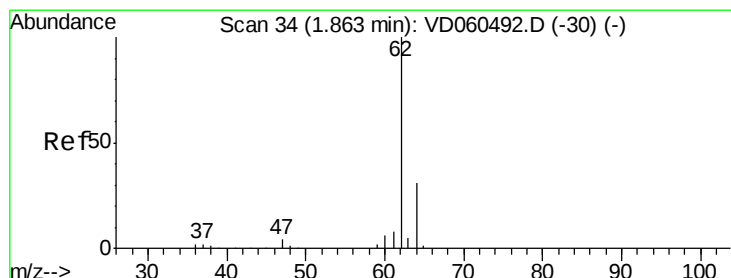
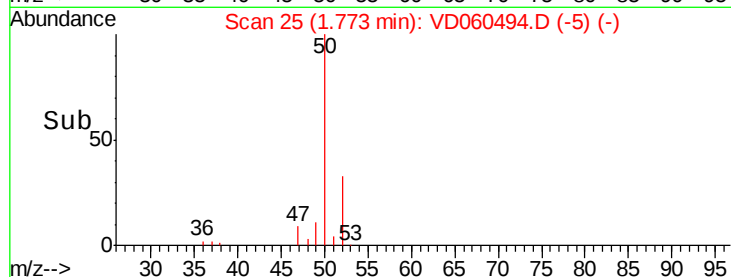
200000

100000

0

1.70 1.80 1.90 2.00

Time-->



#4

Vinyl Chloride

Concen: 97.199 ug/l

RT: 1.86 min Scan# 34

Delta R.T. -0.00 min

Lab File: VD060494.D

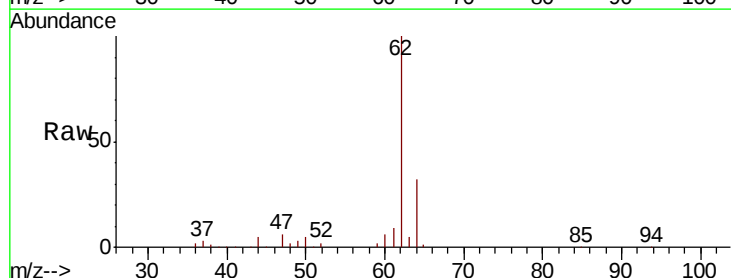
Acq: 5 Dec 2018 16:01

Tgt Ion: 62 Resp: 1219530

Ion Ratio Lower Upper

62 100

64 31.6 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

600000

500000

400000

300000

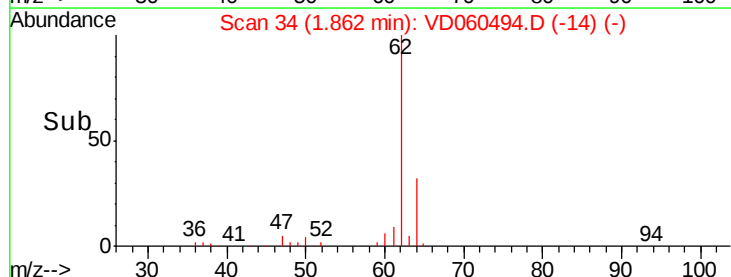
200000

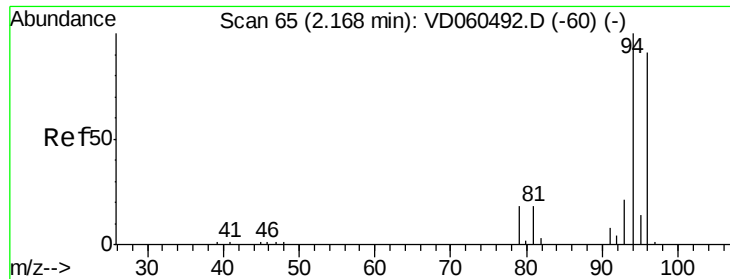
100000

0

1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 70.181 ug/l

RT: 2.16 min Scan# 64

Delta R.T. -0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 211982

Ion Ratio Lower Upper

94 100

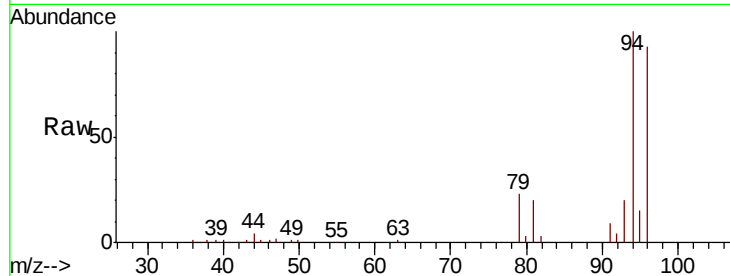
96 93.4 72.6 108.8

Manual Integrations

APPROVED

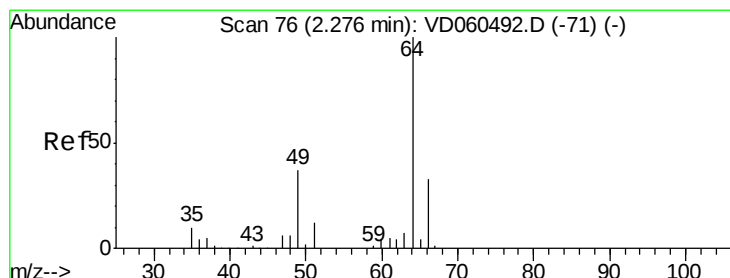
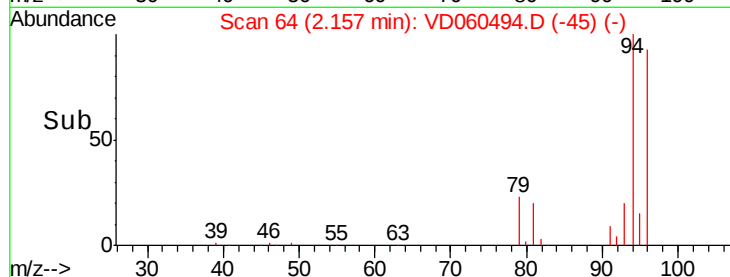
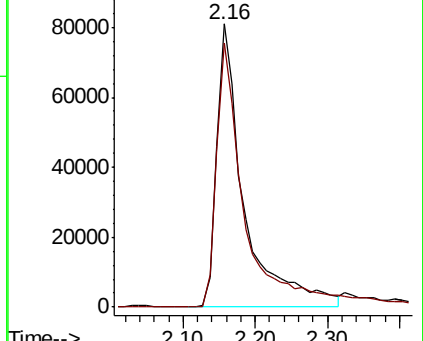
apatel

12/6/2018 10:53:46 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 75.894 ug/l

RT: 2.27 min Scan# 75

Delta R.T. -0.01 min

Lab File: VD060494.D

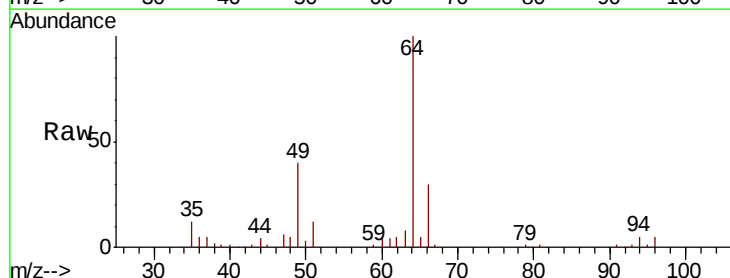
Acq: 5 Dec 2018 16:01

Tgt Ion: 64 Resp: 312956

Ion Ratio Lower Upper

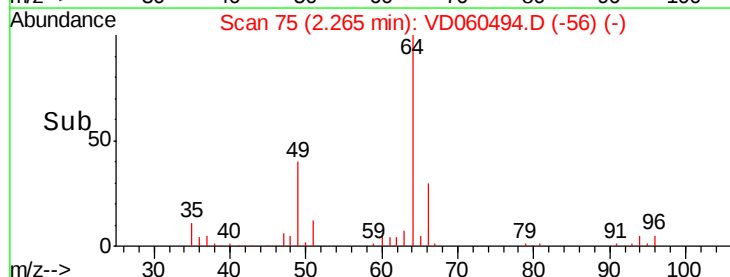
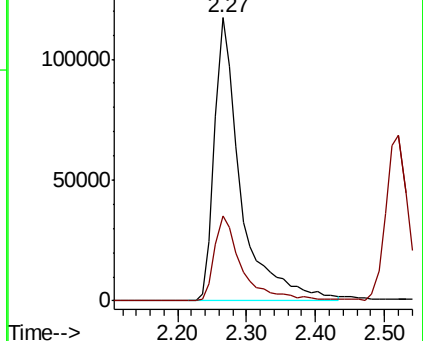
64 100

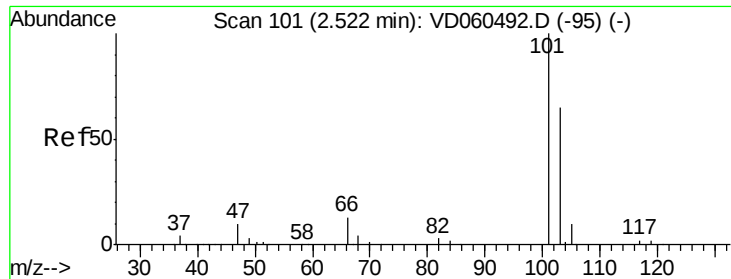
66 29.8 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

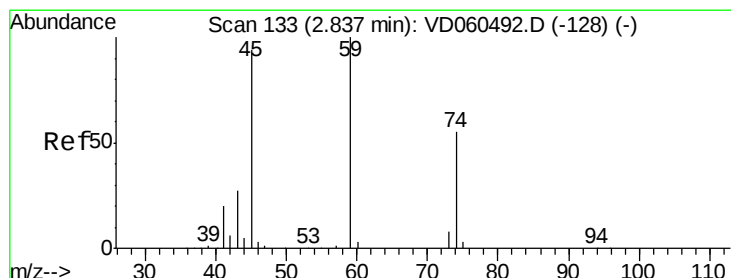
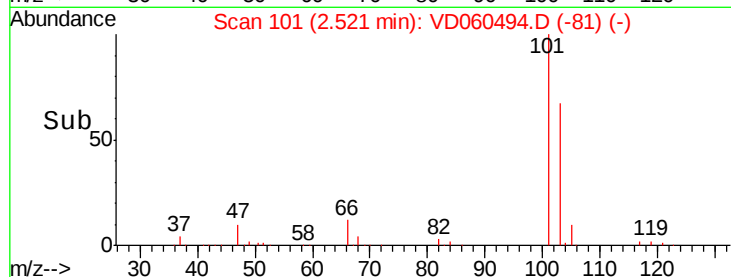
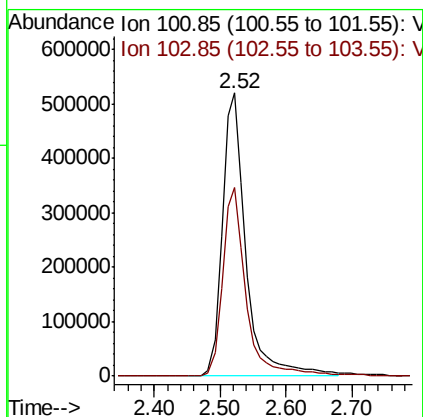
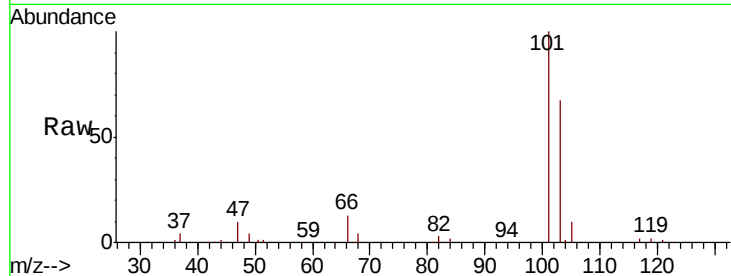
Trichlorofluoromethane
Concen: 87.588 ug/l
RT: 2.52 min Scan# 101
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 101 Resp: 1297937
Ion Ratio Lower Upper
101 100
103 66.8 51.8 77.8

Manual Integrations
APPROVED

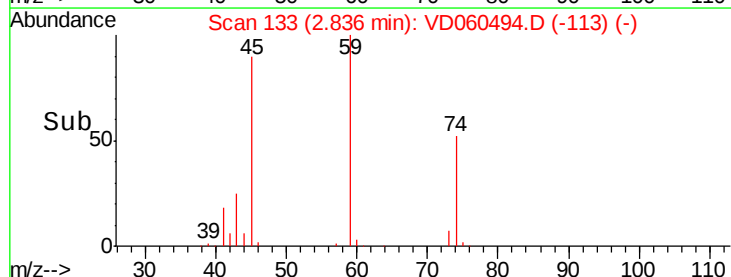
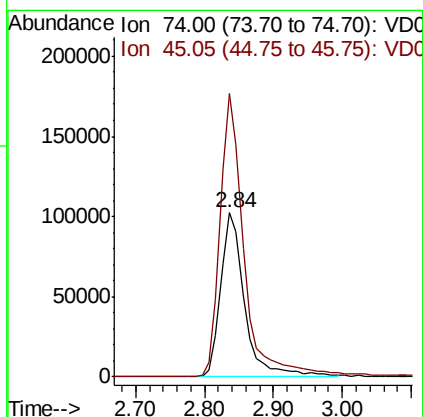
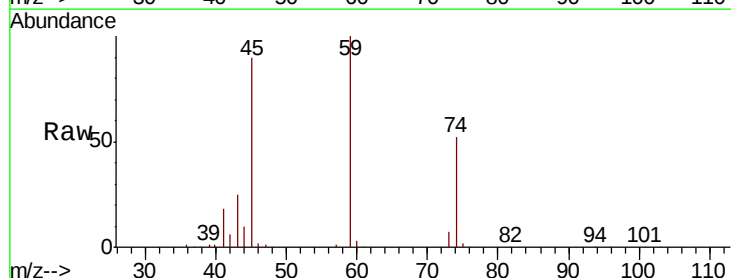
apatel
12/6/2018 10:53:46 AM

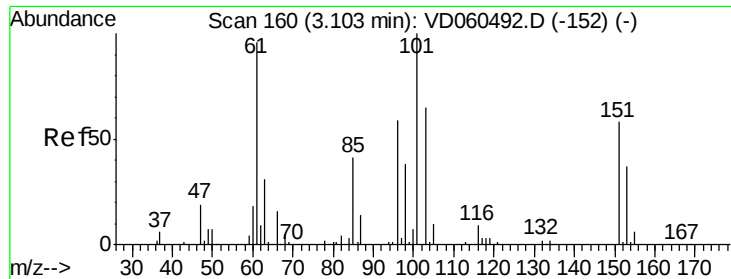


#8

Diethyl Ether
Concen: 93.387 ug/l
RT: 2.84 min Scan# 133
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 74 Resp: 248676
Ion Ratio Lower Upper
74 100
45 172.5 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 89.379 ug/l

RT: 3.10 min Scan# 160

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

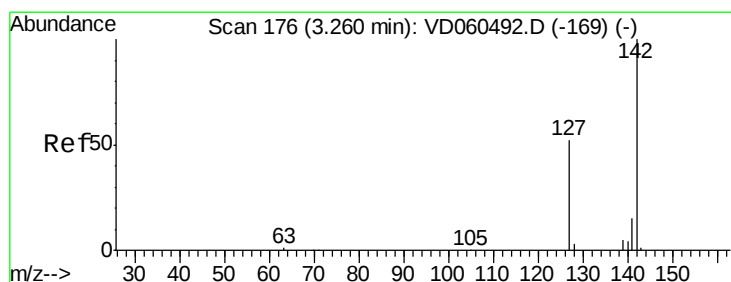
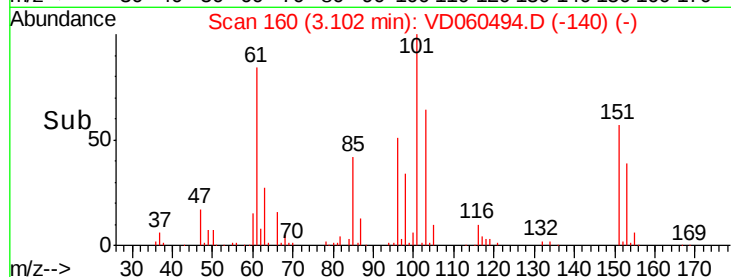
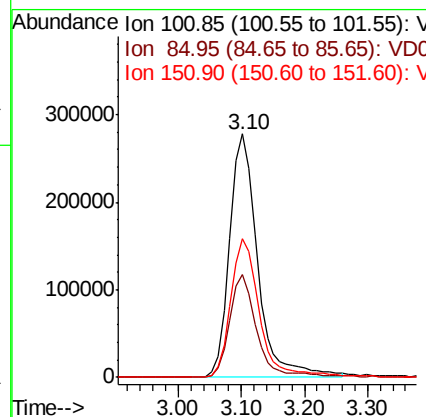
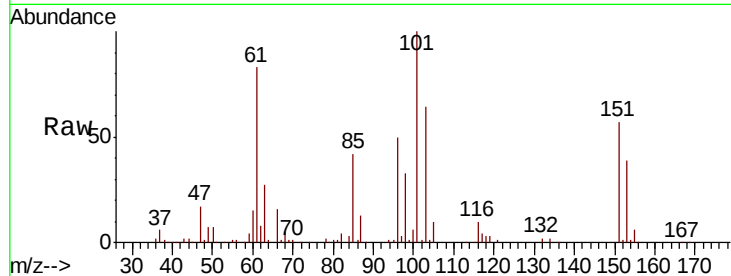
ClientSampleId :

VSTDIC100

Tgt Ion:	101	Resp:	859571
Ion Ratio	Lower	Upper	
101	100		
85	42.0	32.7	49.1
151	56.8	46.6	69.8

Manual Integrations
APPROVED

apatel
12/6/2018 10:53:46 AM



#10

Methyl Iodide

Concen: 89.310 ug/l

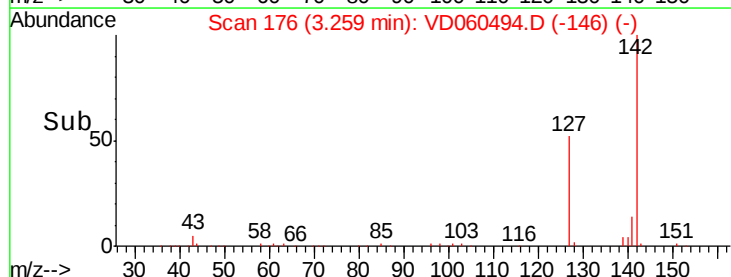
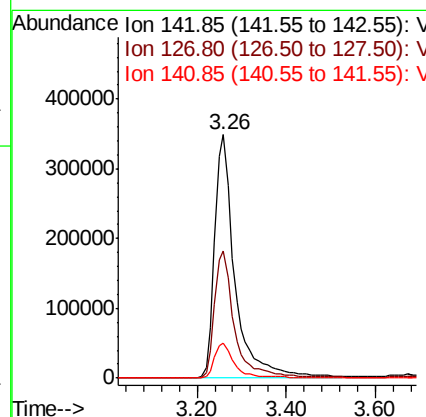
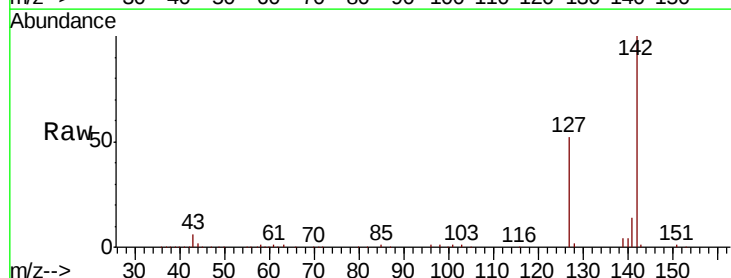
RT: 3.26 min Scan# 176

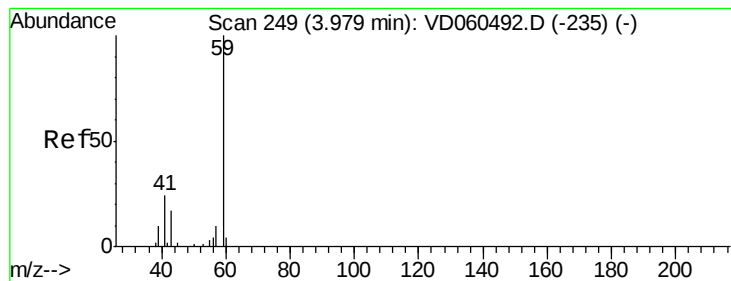
Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Tgt Ion:	142	Resp:	1108454
Ion Ratio	Lower	Upper	
142	100		
127	52.3	41.2	61.8
141	14.3	11.9	17.9





#11

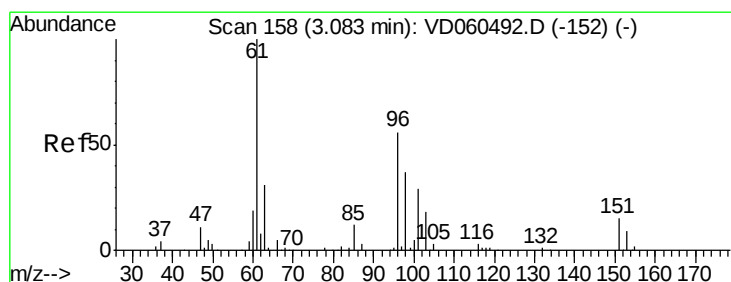
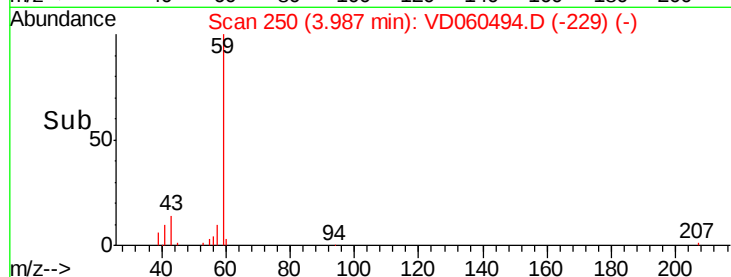
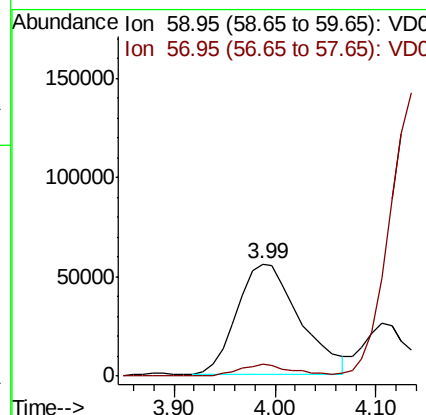
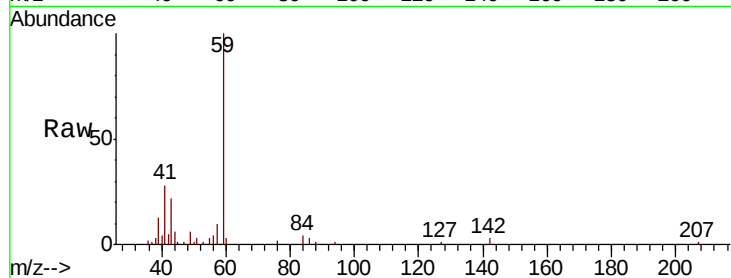
Tert butyl alcohol
Concen: 505.851 ug/l
RT: 3.99 min Scan# 250
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 59 Resp: 237833
Ion Ratio Lower Upper
59 100
57 10.3 8.1 12.1

Manual Integrations
APPROVED

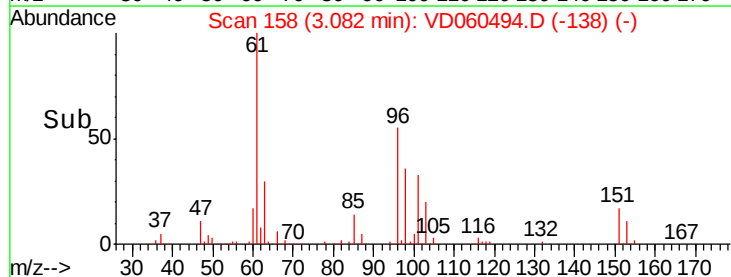
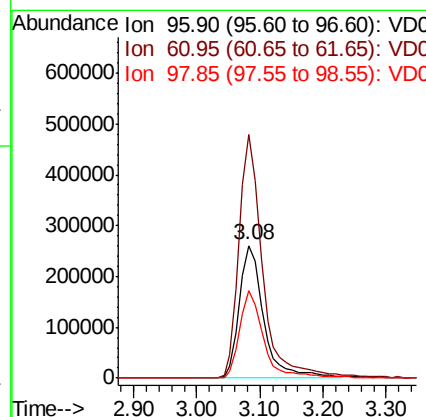
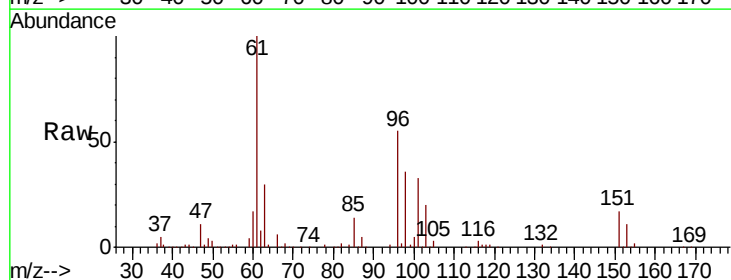
apatel
12/6/2018 10:53:46 AM

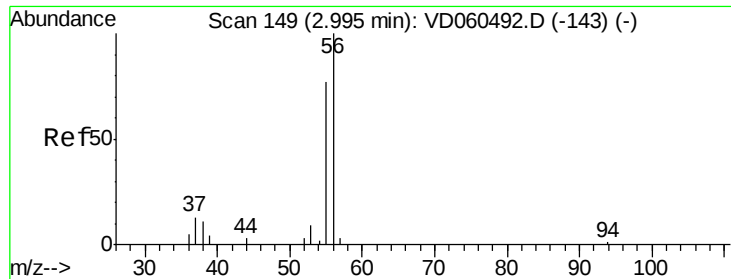


#12

1,1-Dichloroethene
Concen: 88.805 ug/l
RT: 3.08 min Scan# 158
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 96 Resp: 695272
Ion Ratio Lower Upper
96 100
61 183.3 143.0 214.4
98 65.8 53.4 80.0





#13

Acrolein

Concen: 448.064 ug/l

RT: 2.99 min Scan# 149

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 246085

Ion Ratio Lower Upper

56 100

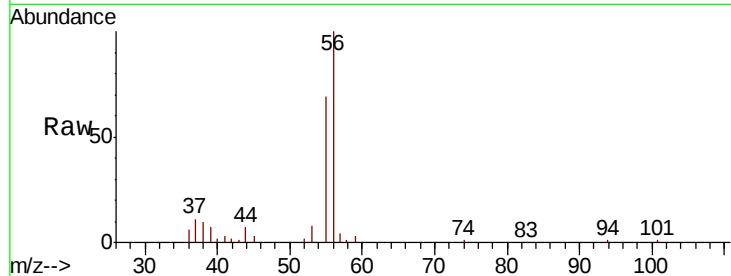
55 69.4 62.0 93.0

Manual Integrations

APPROVED

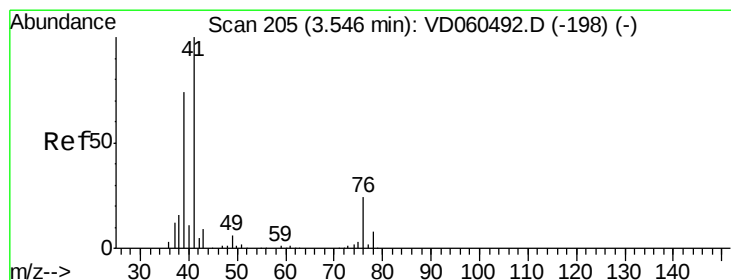
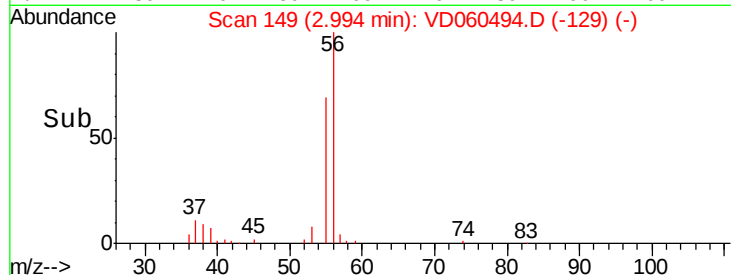
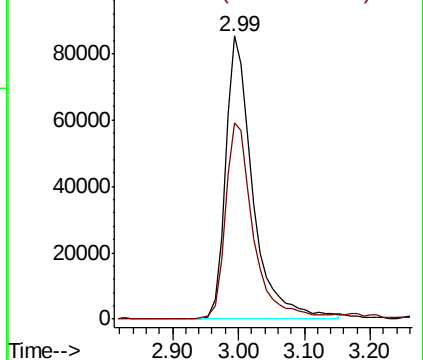
apatel

12/6/2018 10:53:46 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 95.221 ug/l

RT: 3.54 min Scan# 205

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

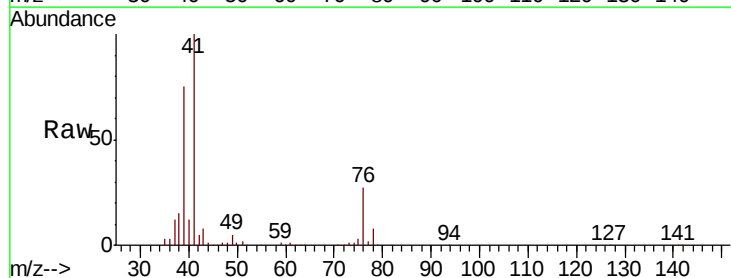
Tgt Ion: 41 Resp: 1431896

Ion Ratio Lower Upper

41 100

39 74.9 59.3 88.9

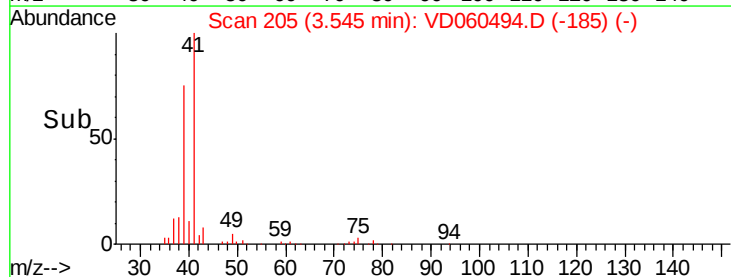
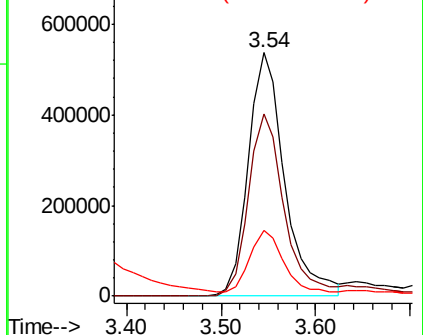
76 26.8 21.0 31.6

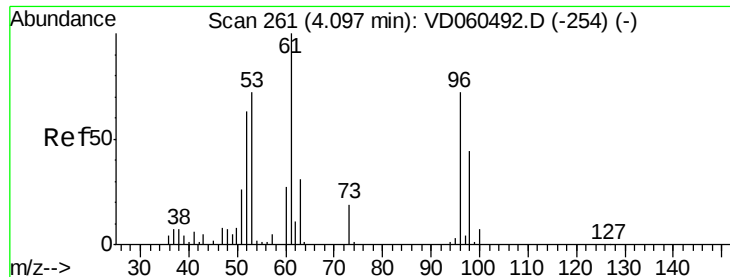


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 474.796 ug/l

RT: 4.10 min Scan# 261

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 1302651

Ion Ratio Lower Upper

53 100

52 84.8 70.0 105.0

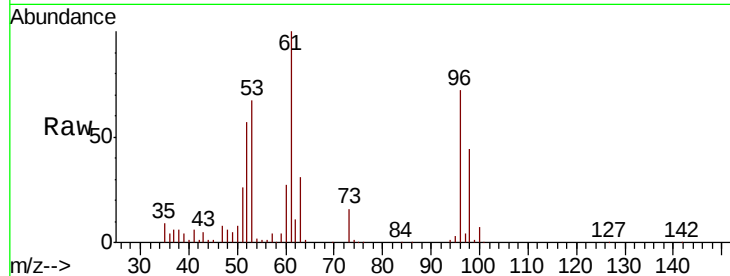
51 38.3 28.8 43.2

Manual Integrations

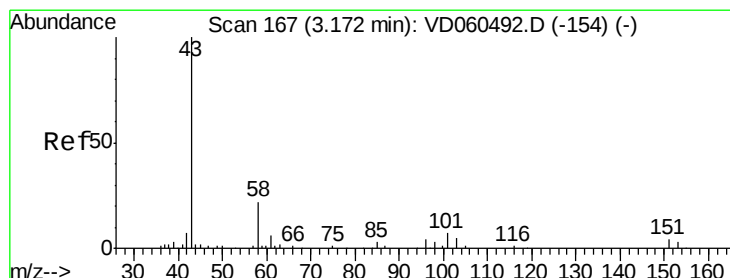
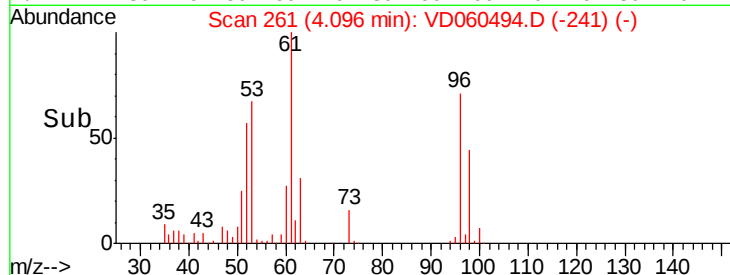
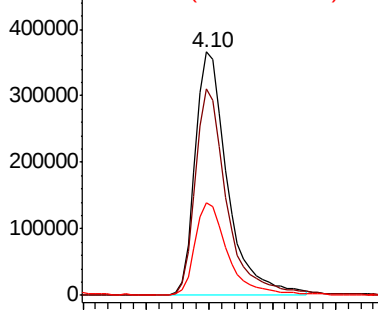
APPROVED

apatel

12/6/2018 10:53:46 AM



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 441.766 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060494.D

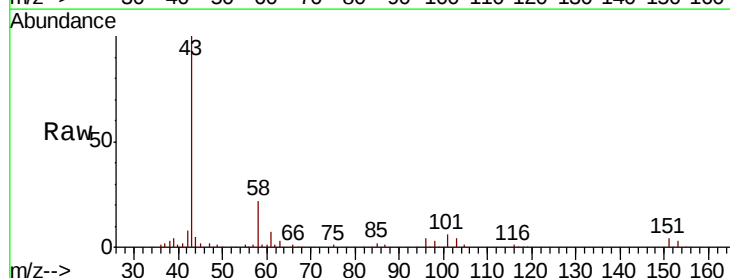
Acq: 5 Dec 2018 16:01

Tgt Ion: 43 Resp: 877836

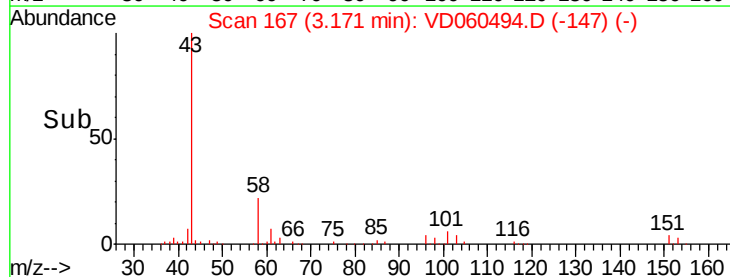
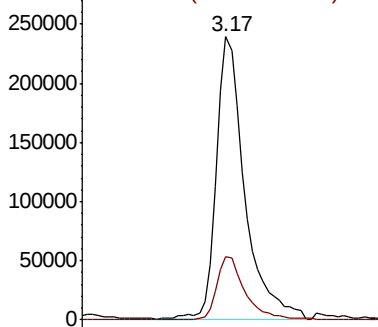
Ion Ratio Lower Upper

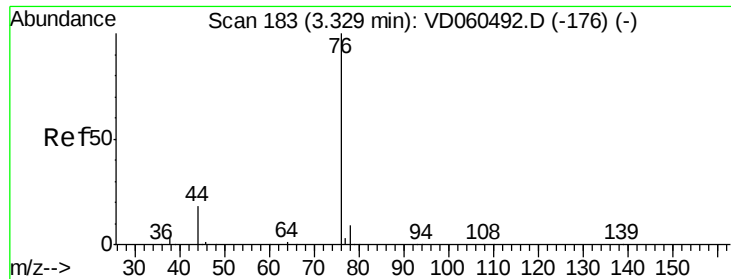
43 100

58 22.3 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





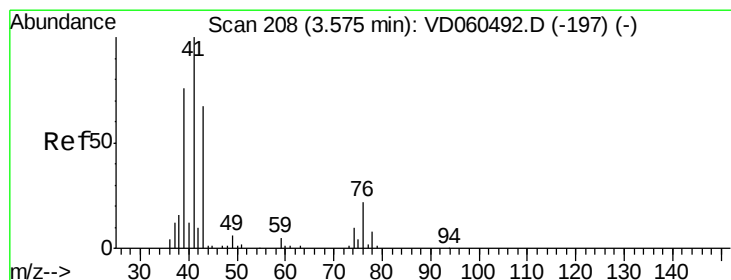
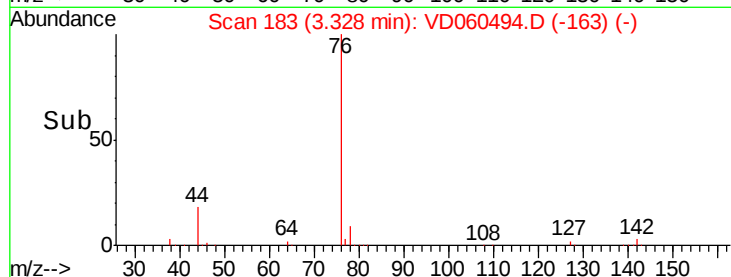
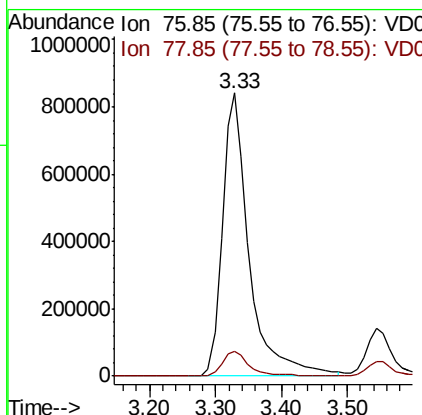
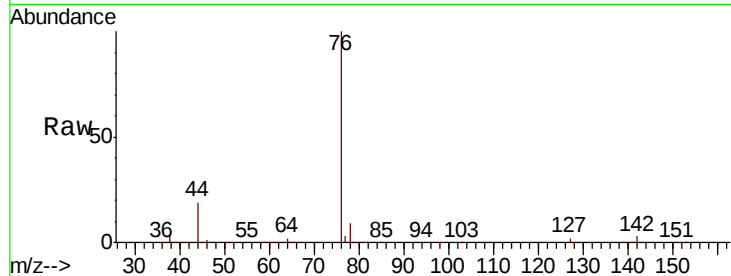
#17
Carbon Disulfide
Concen: 93.341 ug/l
RT: 3.33 min Scan# 183
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 76 Resp: 2373155
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6

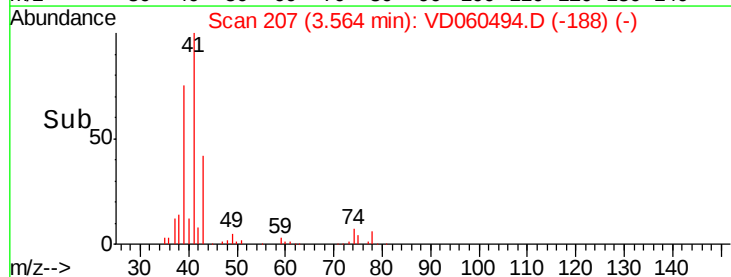
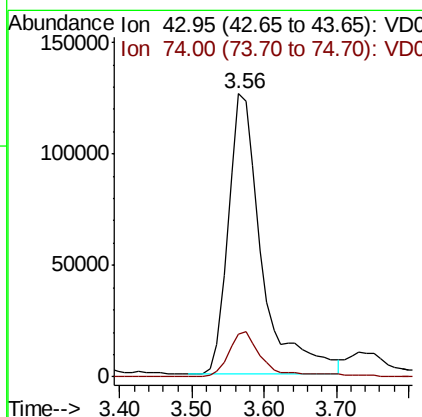
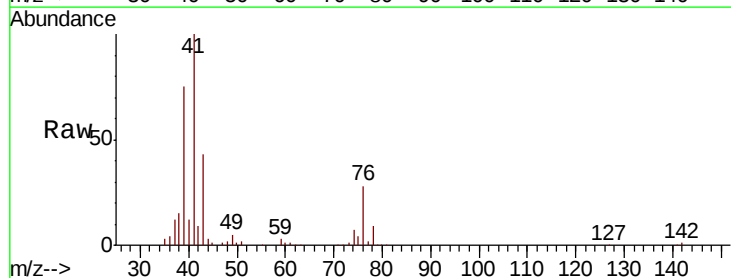
Manual Integrations
APPROVED

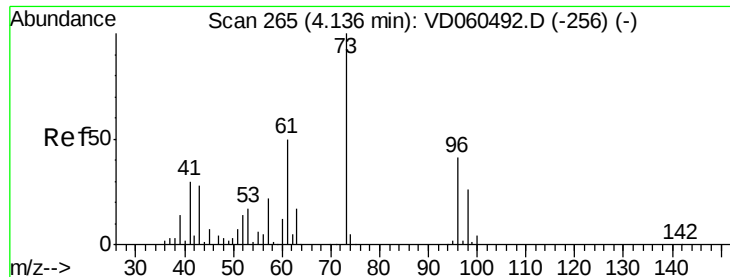
apatel
12/6/2018 10:53:46 AM



#18
Methyl Acetate
Concen: 94.899 ug/l
RT: 3.56 min Scan# 207
Delta R.T. -0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 43 Resp: 408470
Ion Ratio Lower Upper
43 100
74 15.2 12.0 18.0





#19

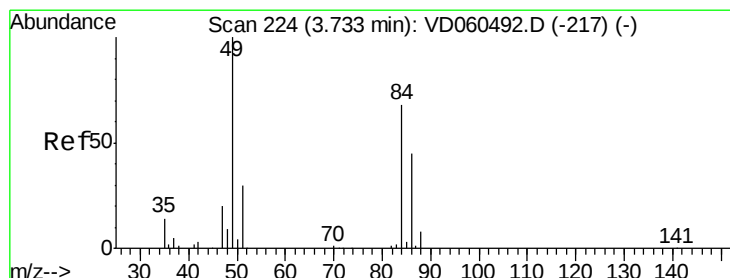
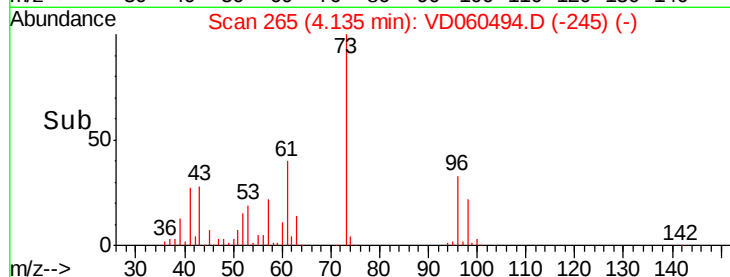
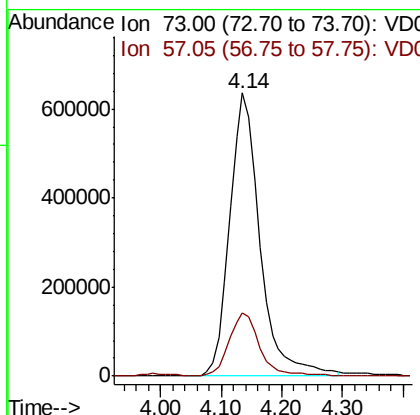
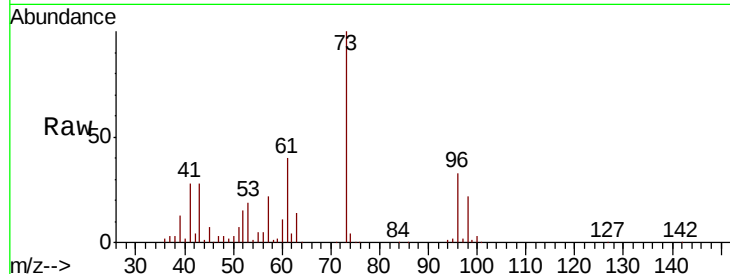
Methyl tert-butyl Ether
 Concen: 94.781 ug/l
 RT: 4.14 min Scan# 265
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion: 73 Resp: 2214284
 Ion Ratio Lower Upper
 73 100
 57 22.4 17.8 26.6

Manual Integrations
 APPROVED

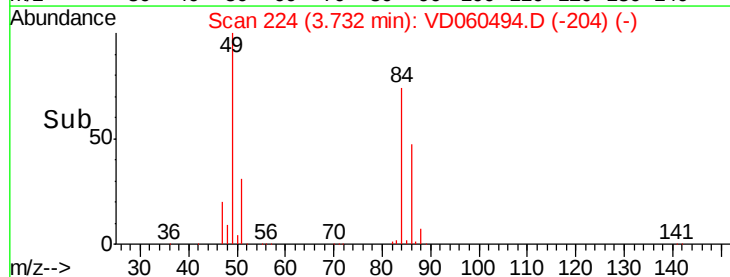
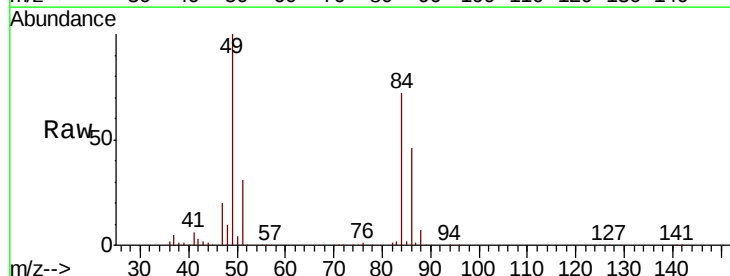
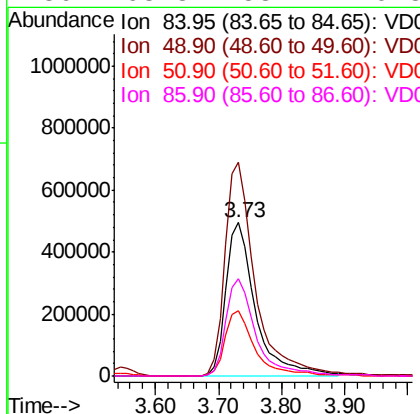
apatel
 12/6/2018 10:53:46 AM

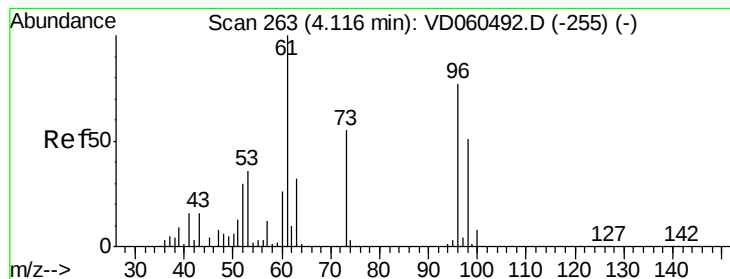


#20

Methylene Chloride
 Concen: 89.984 ug/l
 RT: 3.73 min Scan# 224
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion: 84 Resp: 1606475
 Ion Ratio Lower Upper
 84 100
 49 139.2 117.2 175.8
 51 42.7 35.3 52.9
 86 63.8 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 92.873 ug/l

RT: 4.11 min Scan# 262

Delta R.T. -0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 1622629

Ion Ratio Lower Upper

96 100

61 126.9 104.2 156.4

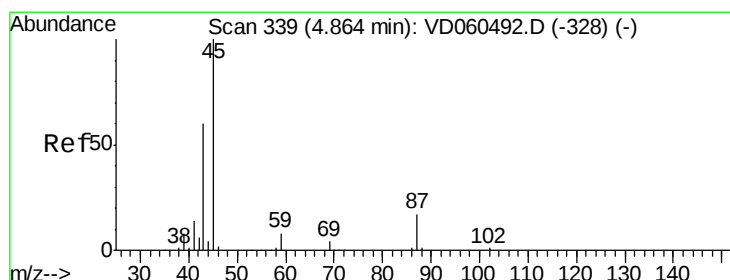
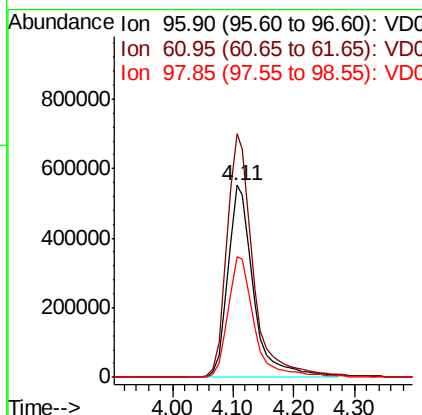
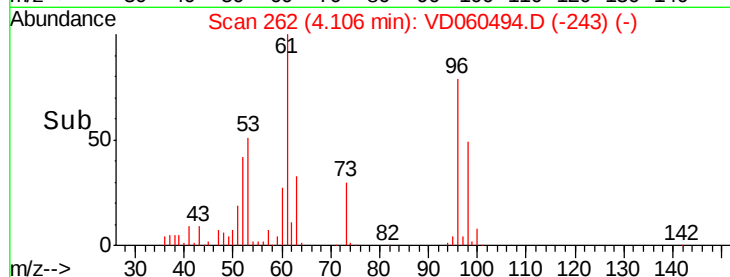
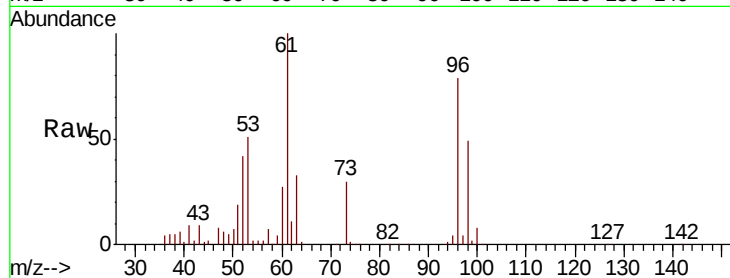
98 62.6 52.8 79.2

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



#22

Diisopropyl ether

Concen: 95.359 ug/l

RT: 4.86 min Scan# 339

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Tgt Ion: 45 Resp: 5331086

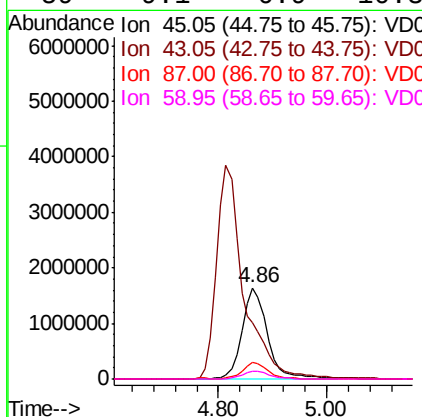
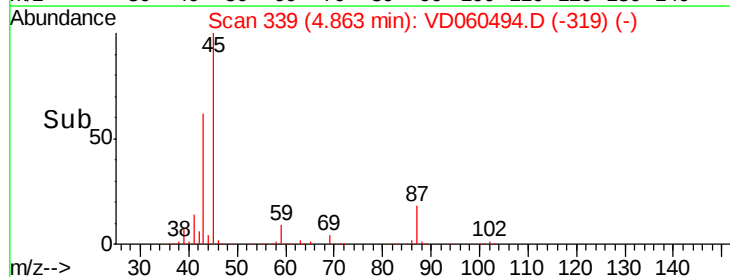
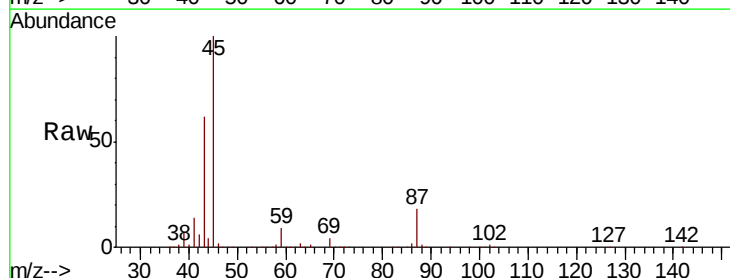
Ion Ratio Lower Upper

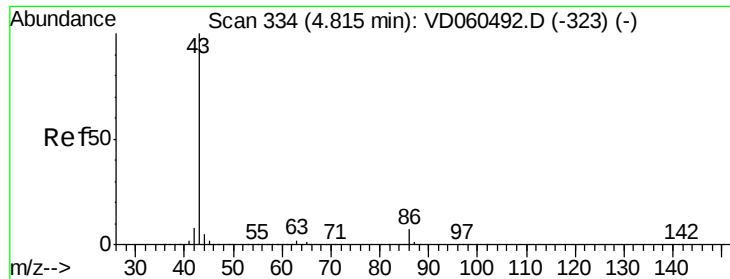
45 100

43 61.9 48.6 73.0

87 17.8 14.0 21.0

59 9.1 6.9 10.3





#23

Vinyl Acetate

Concen: 477.502 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp:13331812

Ion Ratio Lower Upper

43 100

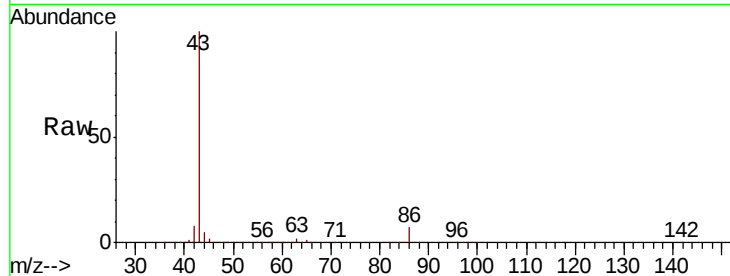
86 7.0 5.5 8.3

Manual Integrations

APPROVED

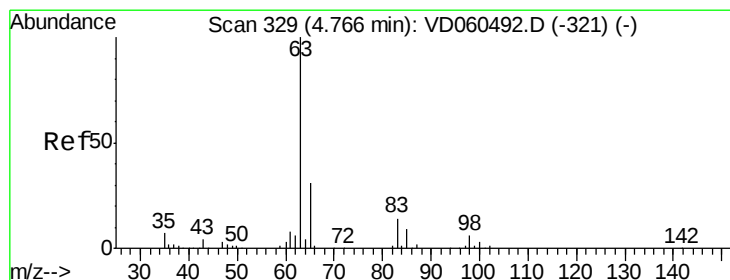
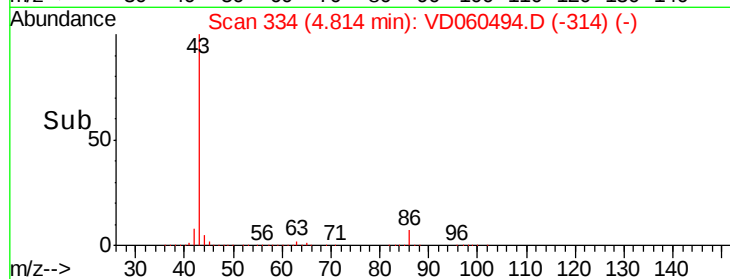
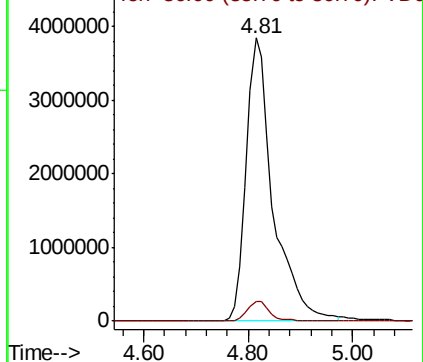
apatel

12/6/2018 10:53:46 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 93.129 ug/l

RT: 4.76 min Scan# 329

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

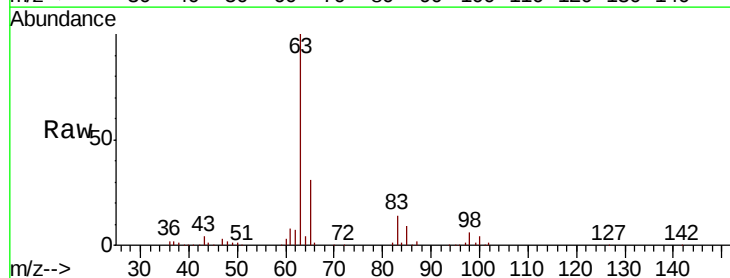
Tgt Ion: 63 Resp: 2679185

Ion Ratio Lower Upper

63 100

98 5.7 2.8 8.3

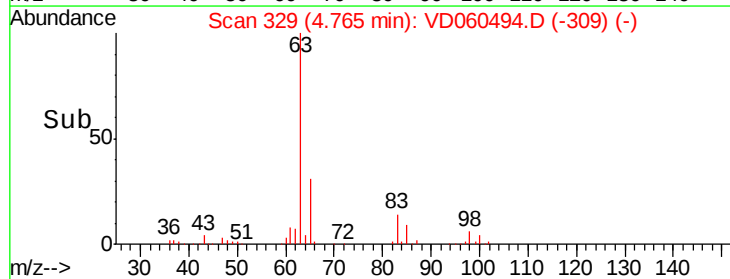
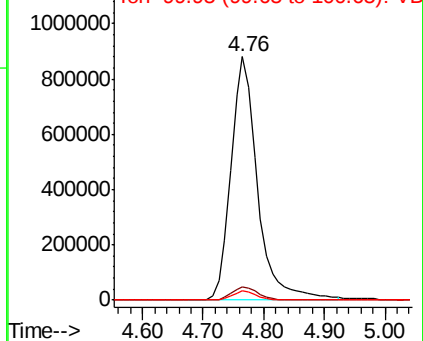
100 3.7 1.7 5.1

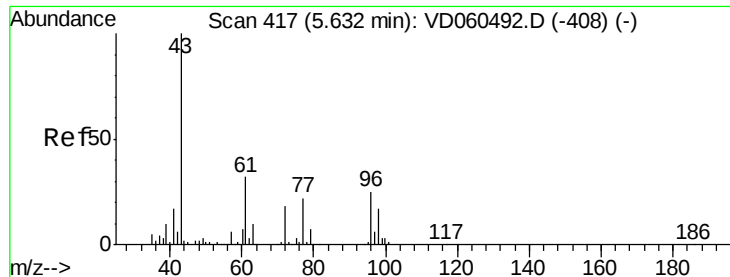


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 448.961 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1833898

Ion Ratio Lower Upper

43 100

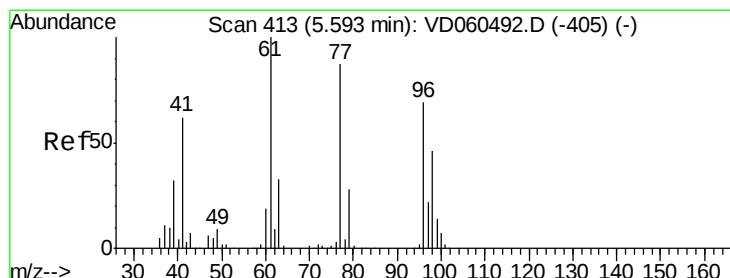
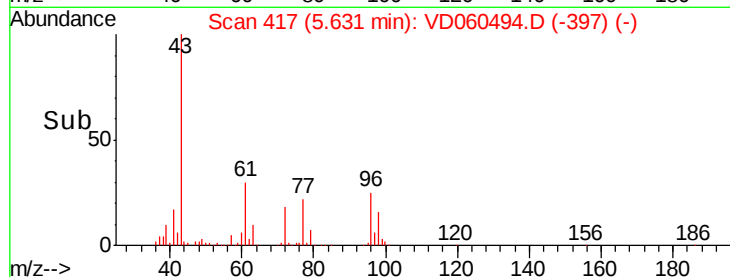
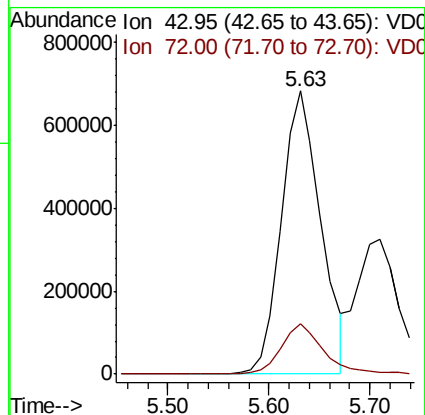
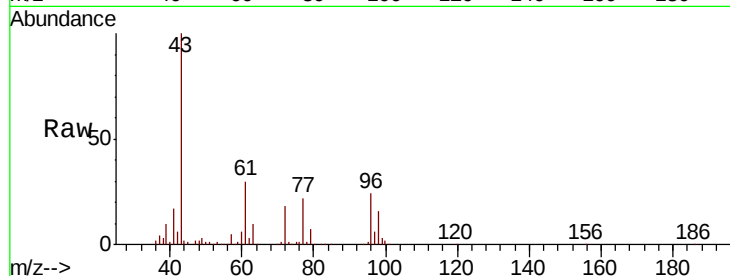
72 17.6 14.6 21.8

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



#26

2,2-Dichloropropane

Concen: 89.507 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD060494.D

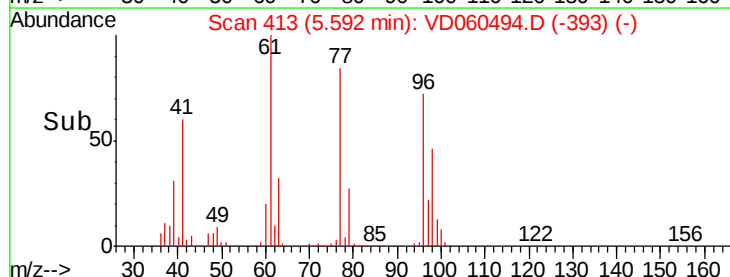
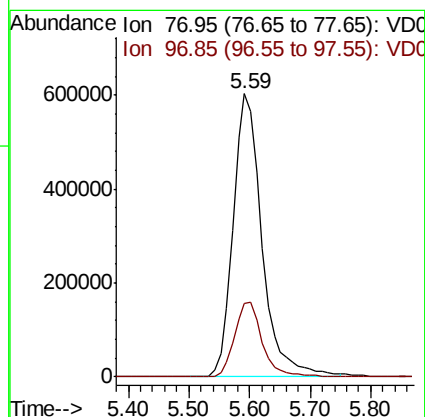
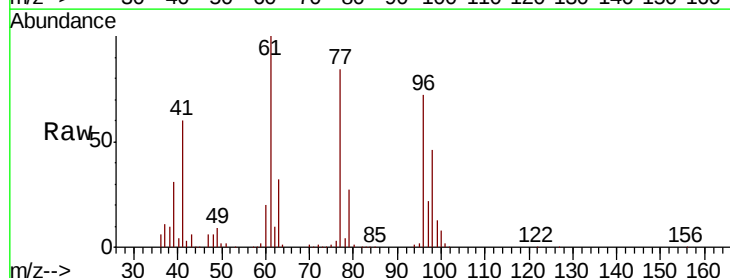
Acq: 5 Dec 2018 16:01

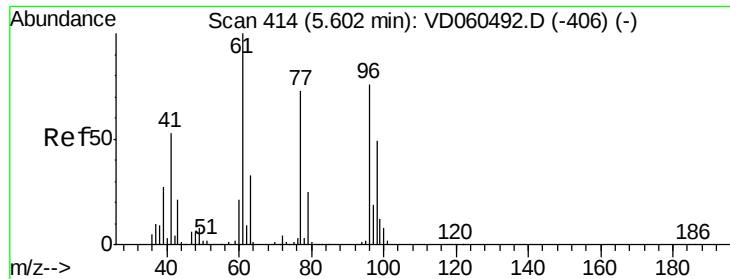
Tgt Ion: 77 Resp: 1992174

Ion Ratio Lower Upper

77 100

97 26.0 12.7 38.0





#27

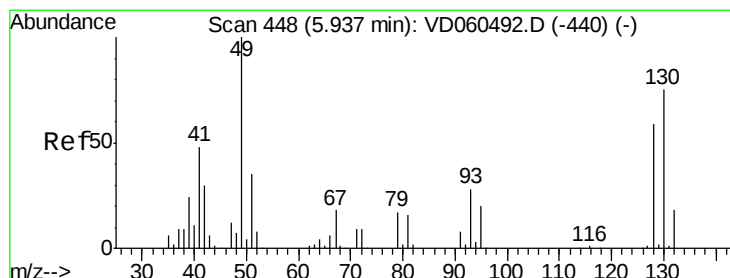
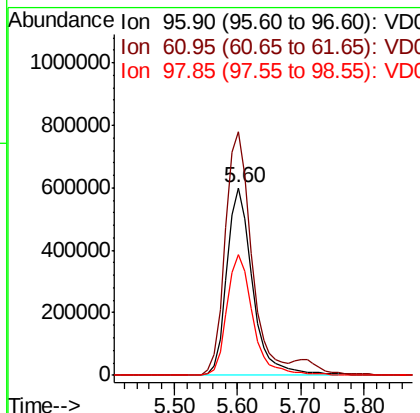
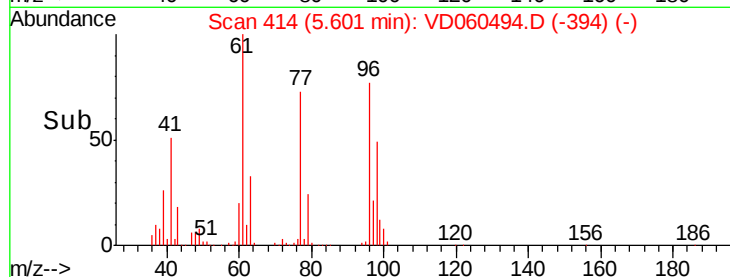
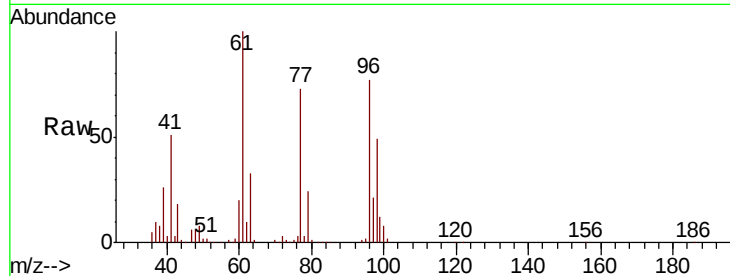
cis-1,2-Dichloroethene
 Concen: 93.510 ug/l
 RT: 5.60 min Scan# 414
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.7	0.0	263.6
98	64.2	0.0	128.2

Manual Integrations
 APPROVED

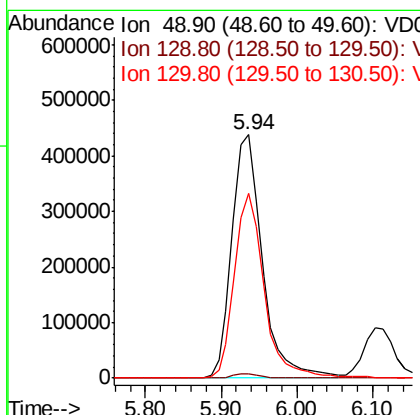
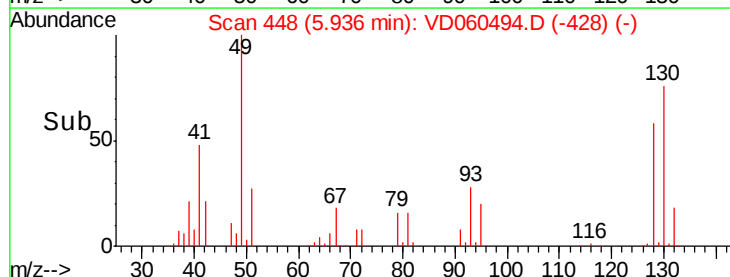
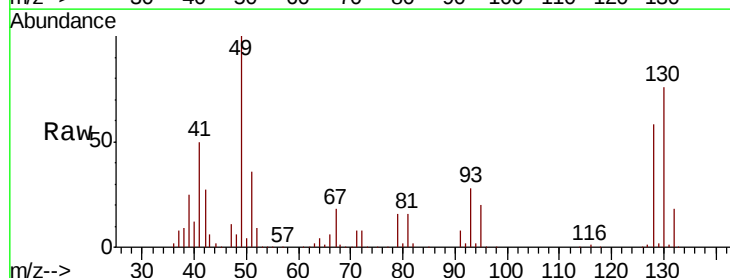
apatel
 12/6/2018 10:53:46 AM



#28

Bromochloromethane
 Concen: 96.430 ug/l
 RT: 5.94 min Scan# 448
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	76.0	59.8	89.6





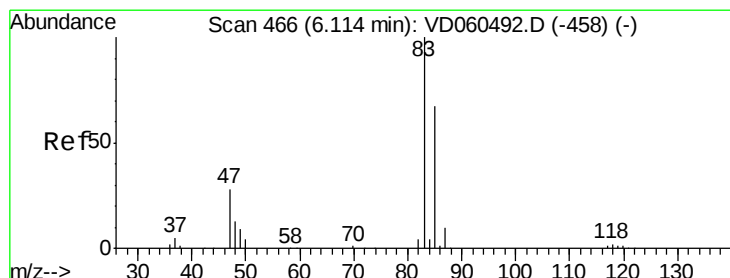
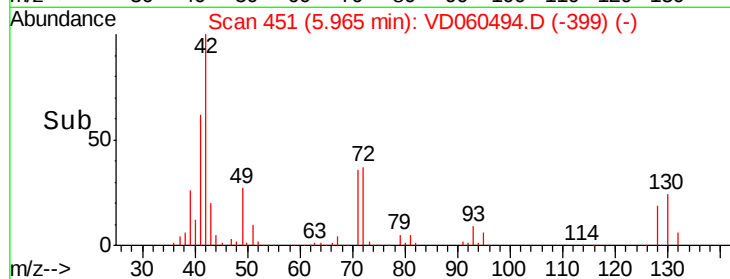
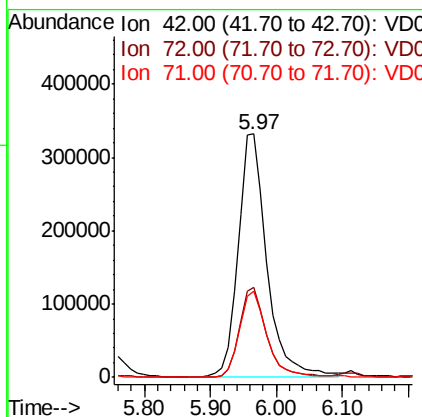
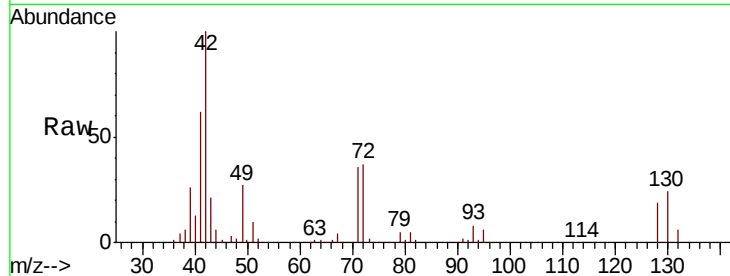
#29
Tetrahydrofuran
Concen: 462.945 ug/l
RT: 5.97 min Scan# 451
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 42 Resp: 1008032
Ion Ratio Lower Upper
42 100
72 35.5 28.0 42.0
71 34.9 27.2 40.8

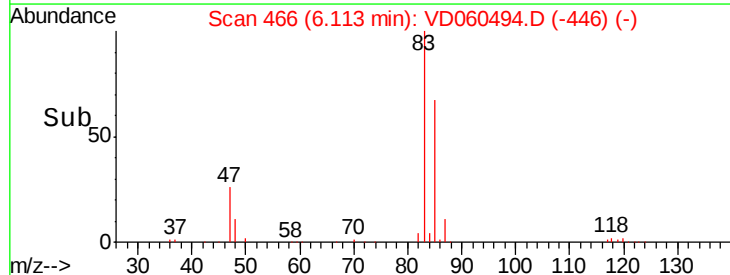
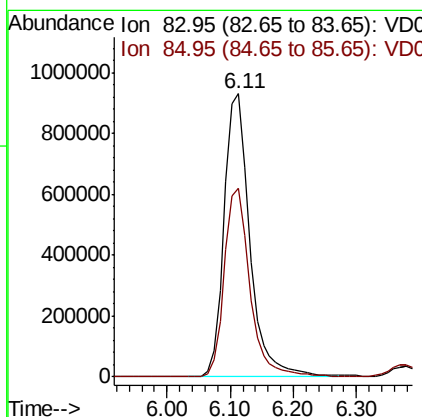
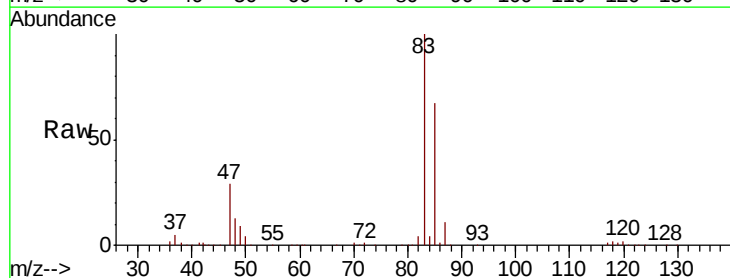
Manual Integrations
APPROVED

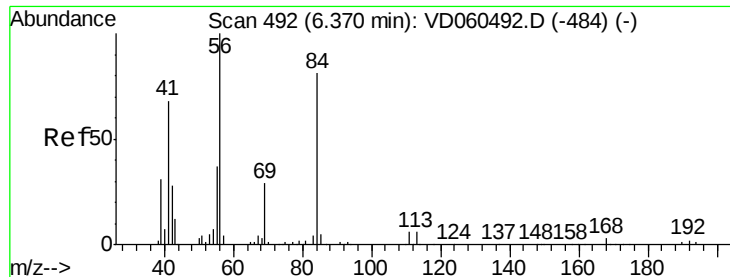
apatel
12/6/2018 10:53:46 AM



#30
Chloroform
Concen: 92.106 ug/l
RT: 6.11 min Scan# 466
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 83 Resp: 2649329
Ion Ratio Lower Upper
83 100
85 66.8 53.4 80.2





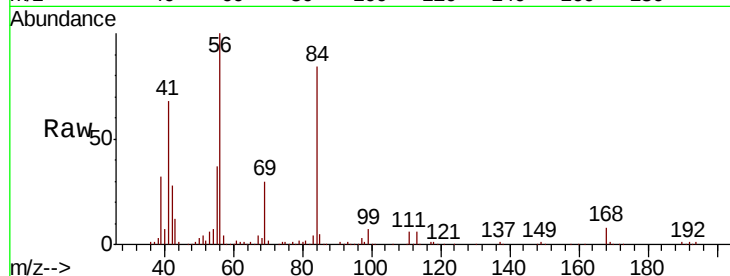
#31
Cyclohexane
Concen: 83.773 ug/l
RT: 6.38 min Scan# 493
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

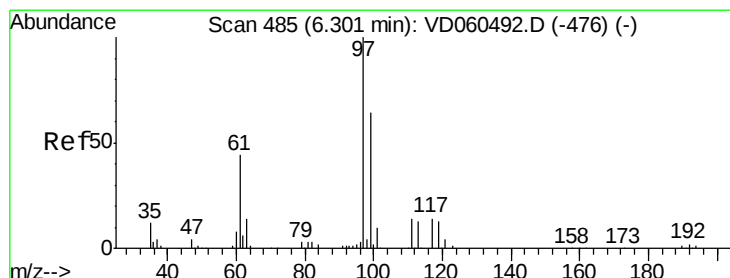
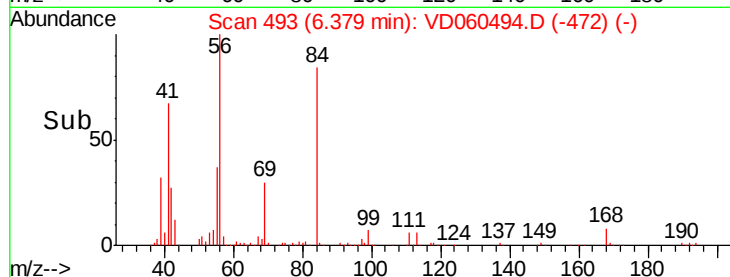
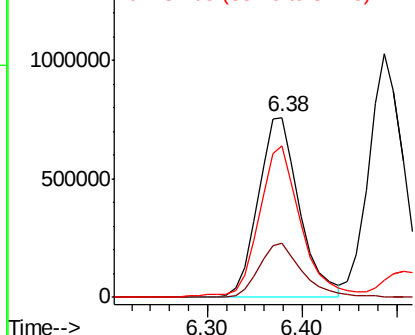
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.9	22.8	34.2
84	84.5	65.1	97.7

Manual Integrations
APPROVED

apatel
12/6/2018 10:53:46 AM

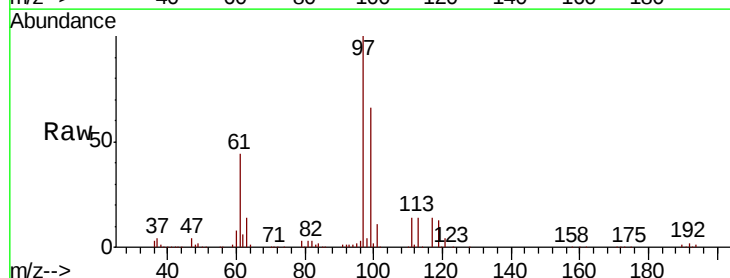


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

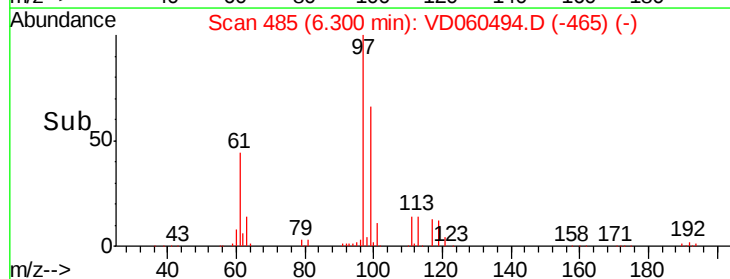
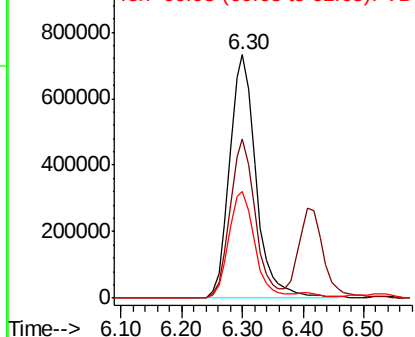


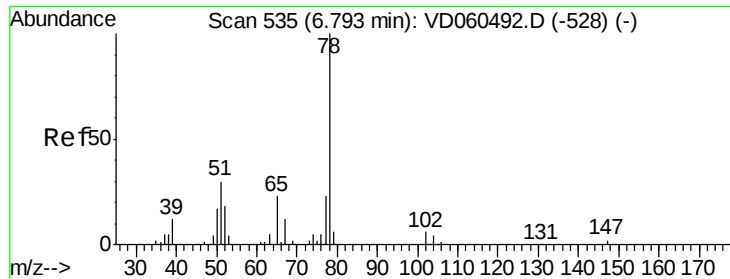
#32
1,1,1-Trichloroethane
Concen: 91.823 ug/l
RT: 6.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.0	76.4
61	43.9	35.3	52.9



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 91.823 ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 1137009

Ion Ratio Lower Upper

65 100

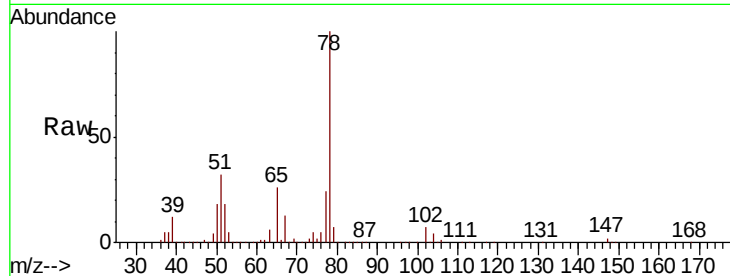
67 50.7 0.0 106.8

Manual Integrations

APPROVED

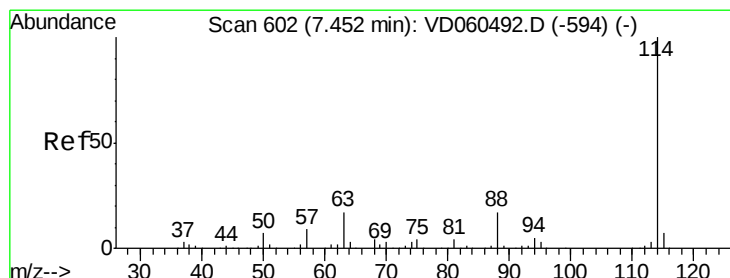
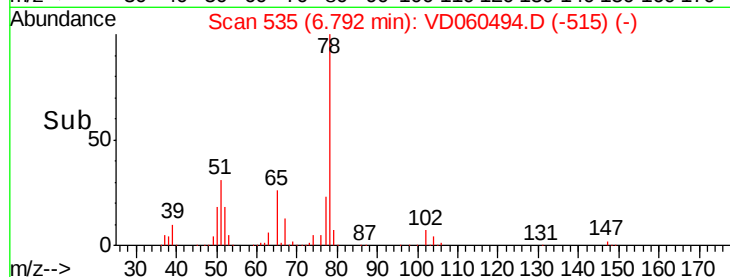
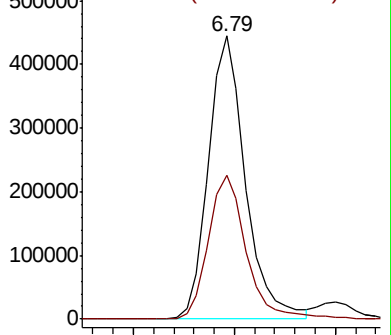
apatel

12/6/2018 10:53:46 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

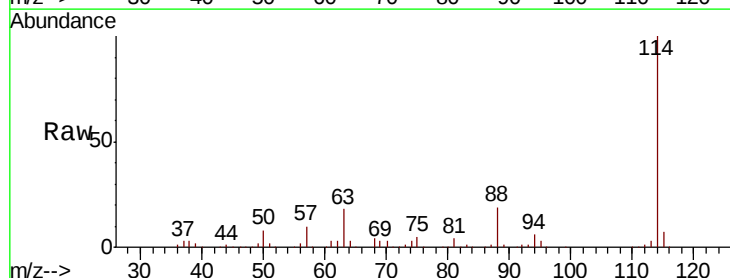
Tgt Ion: 114 Resp: 2317977

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.2

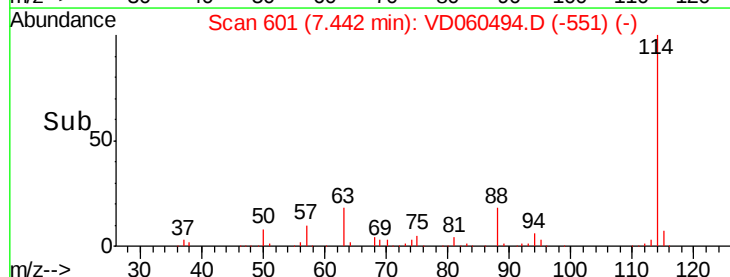
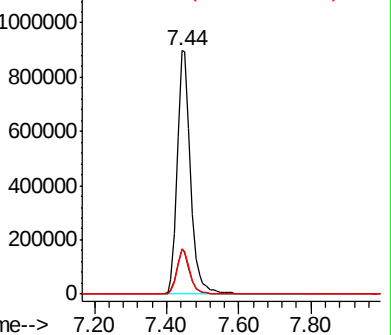
88 18.6 0.0 35.0

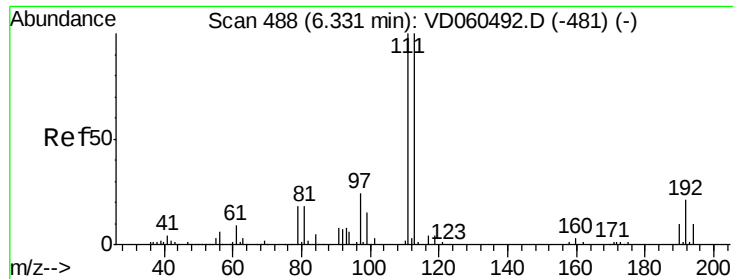


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 488

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 113 Resp: 1660406

Ion Ratio Lower Upper

113 100

111 101.2 80.2 120.4

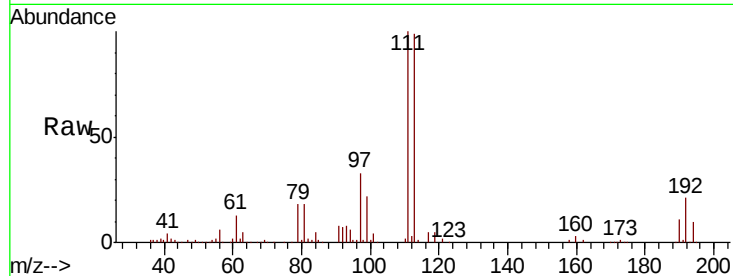
192 21.3 16.6 24.8

Manual Integrations

APPROVED

apatel

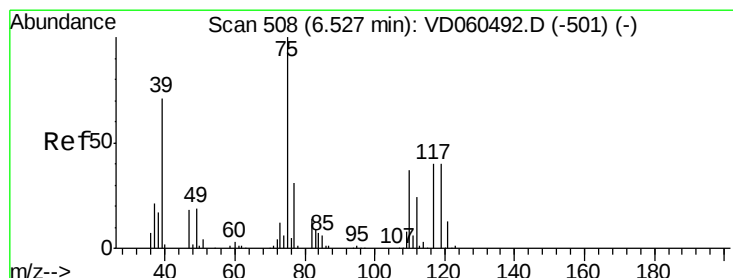
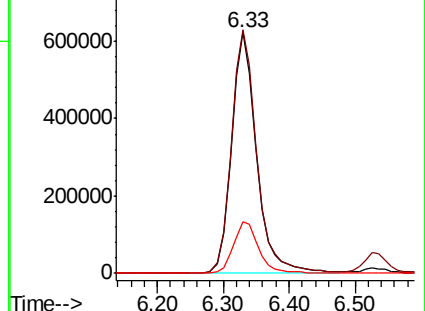
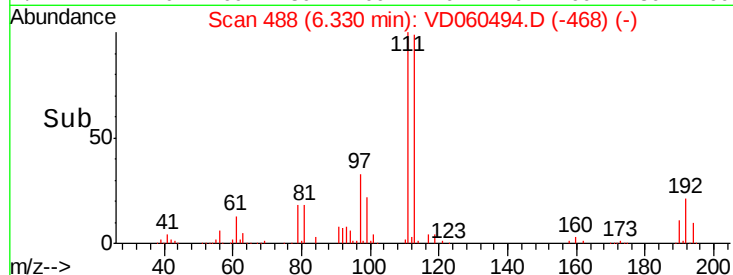
12/6/2018 10:53:46 AM



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 85.312 ug/l

RT: 6.53 min Scan# 508

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

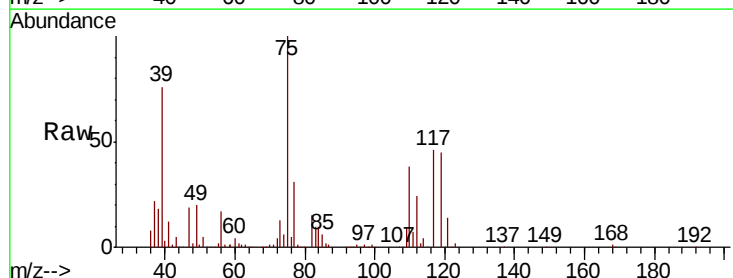
Tgt Ion: 75 Resp: 1954877

Ion Ratio Lower Upper

75 100

110 37.6 18.3 54.8

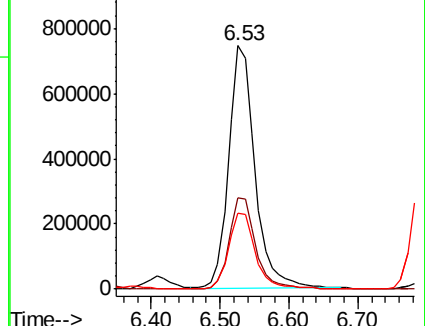
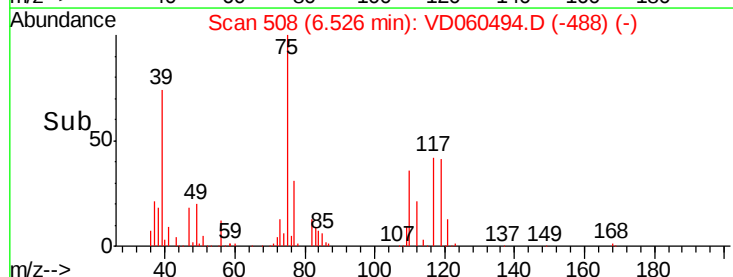
77 31.2 24.6 37.0

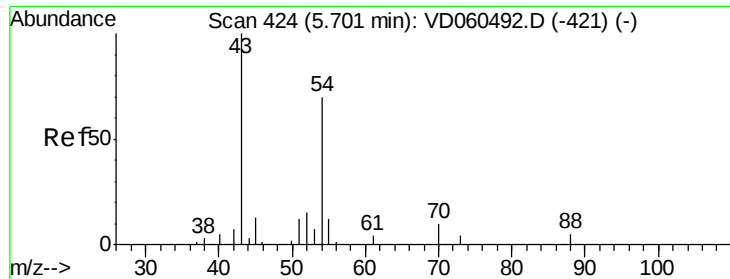


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





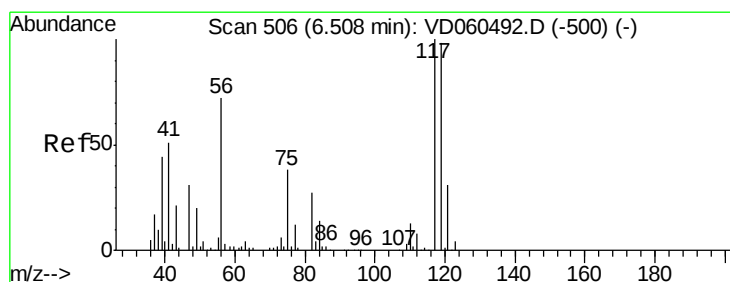
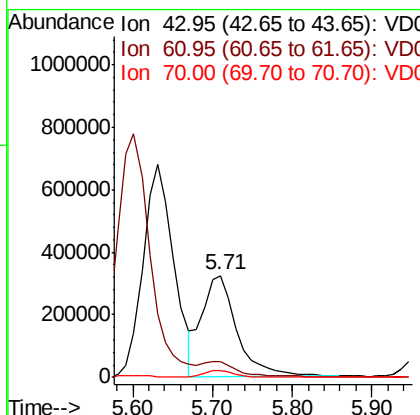
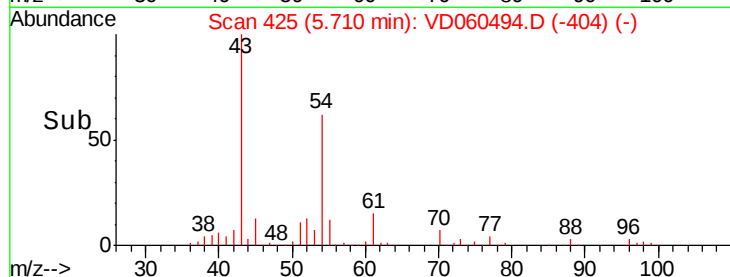
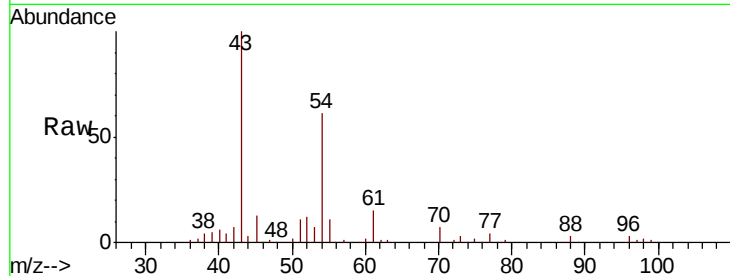
#37
Ethyl Acetate
Concen: 94.011 ug/l
RT: 5.71 min Scan# 425
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.4	18.6
70	7.3	5.4	8.0

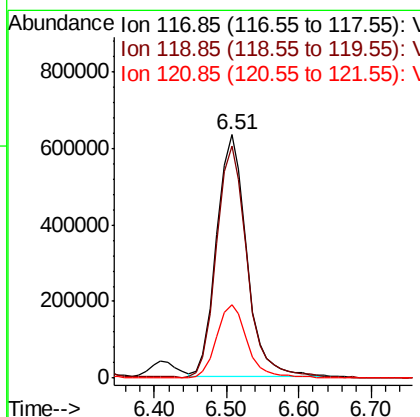
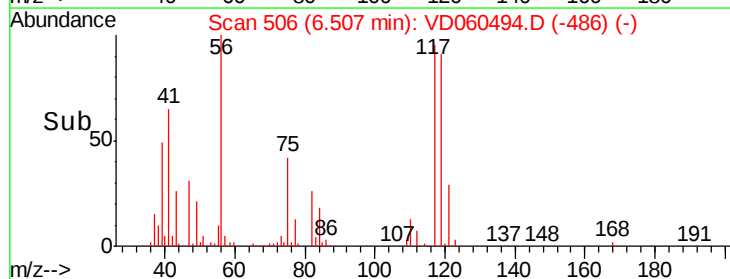
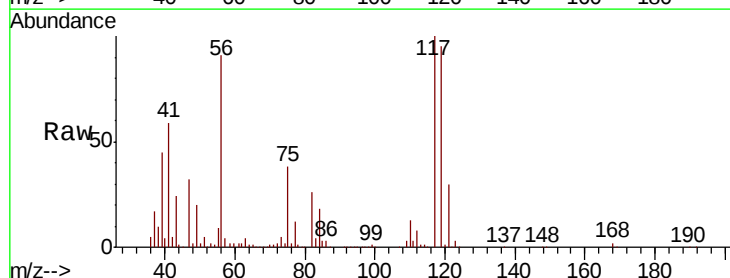
Manual Integrations
APPROVED

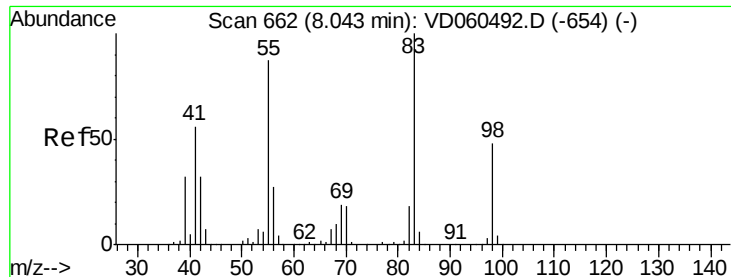
apatel
12/6/2018 10:53:46 AM



#38
Carbon Tetrachloride
Concen: 85.857 ug/l
RT: 6.51 min Scan# 506
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.8	115.2
121	30.4	24.4	36.6





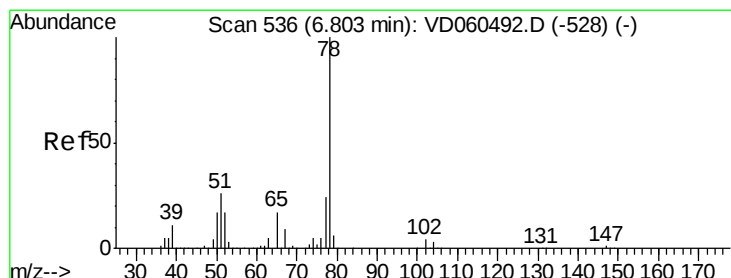
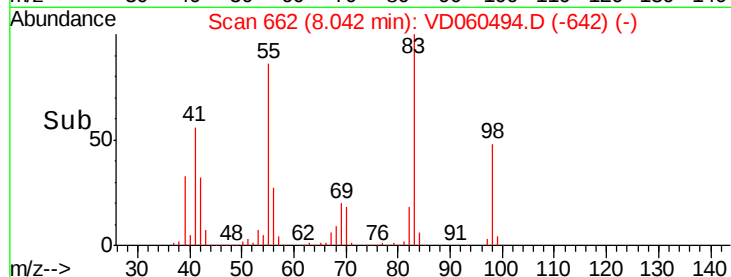
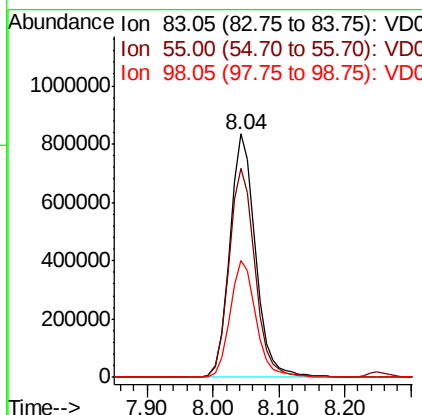
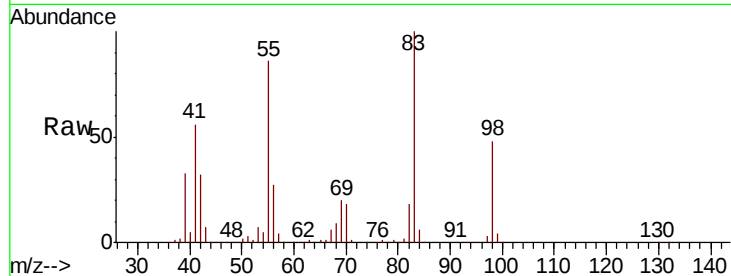
#39
Methylcyclohexane
Concen: 87.328 ug/l
RT: 8.04 min Scan# 662
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 83 Resp: 2295014
Ion Ratio Lower Upper
83 100
55 86.1 69.8 104.8
98 48.0 38.4 57.6

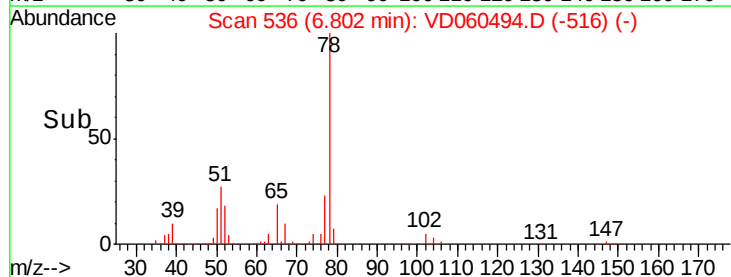
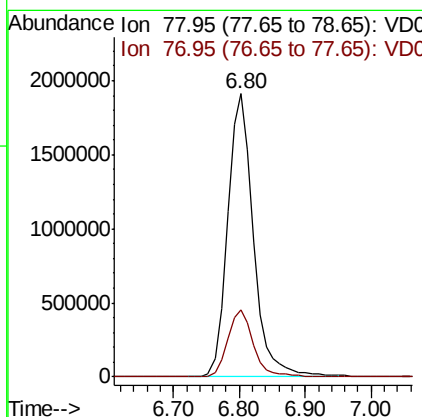
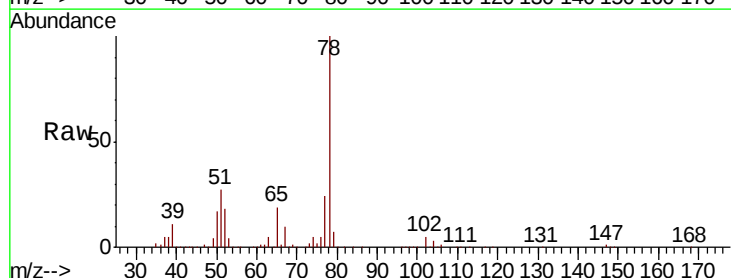
Manual Integrations
APPROVED

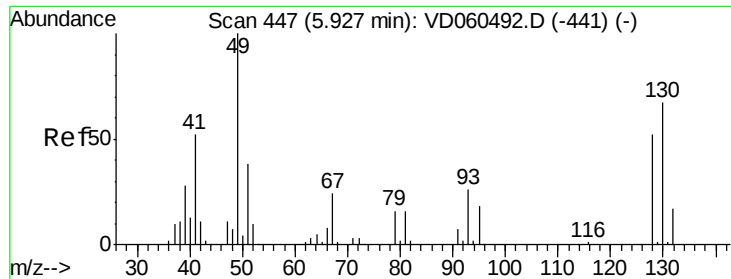
apatel
12/6/2018 10:53:46 AM



#40
Benzene
Concen: 89.750 ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 78 Resp: 5233204
Ion Ratio Lower Upper
78 100
77 23.5 18.9 28.3





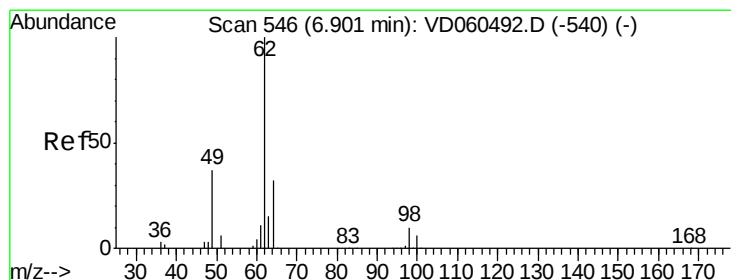
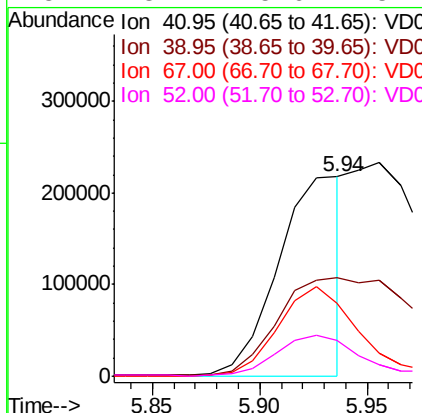
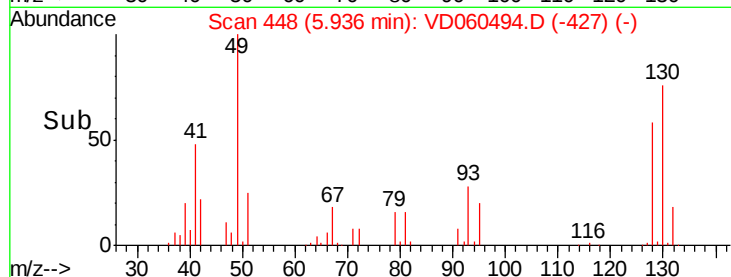
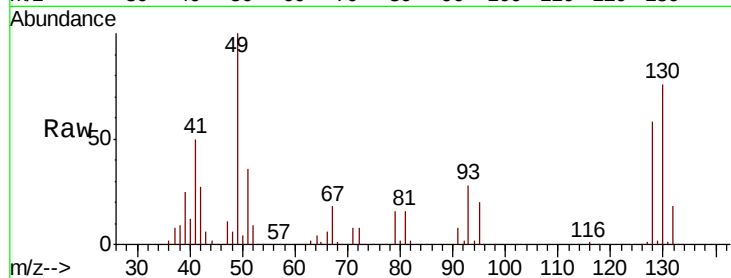
#41
Methacrylonitrile
Concen: 42.627 ug/l m
RT: 5.94 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion:	41	Resp:	462422
Ion	Ratio	Lower	Upper
41	100		
39	49.4	42.6	63.8
67	36.3	36.2	54.4
52	18.2	15.6	23.4

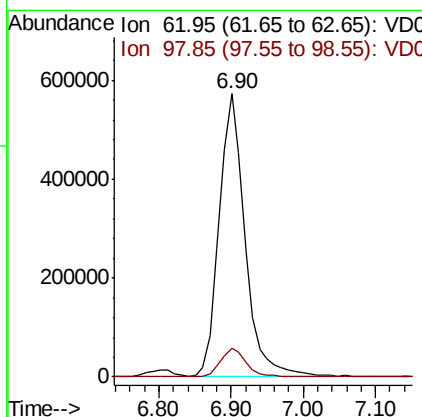
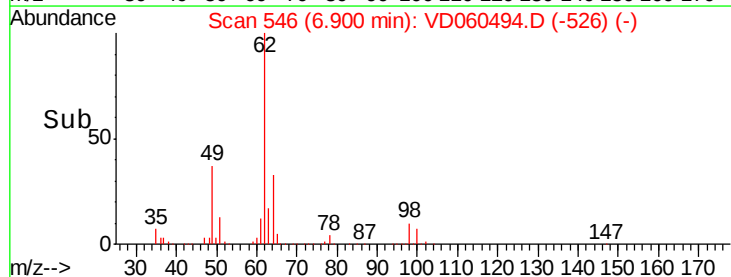
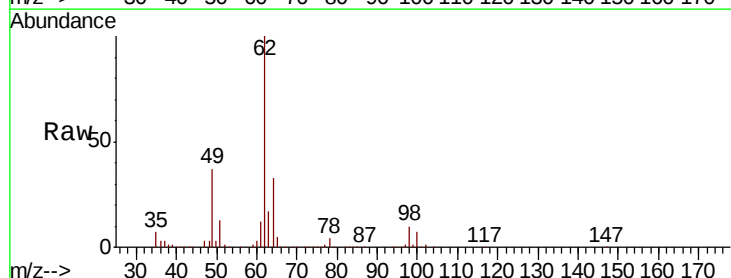
Manual Integrations
APPROVED

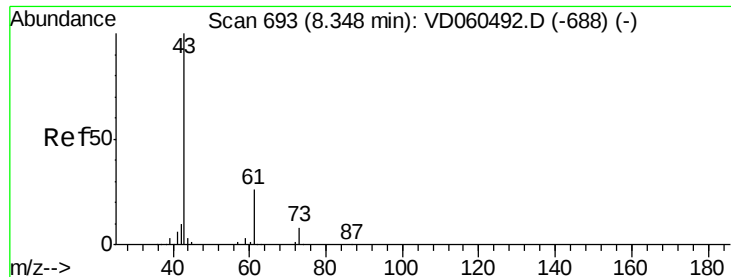
apatel
12/6/2018 10:53:46 AM



#42
1,2-Dichloroethane
Concen: 92.831 ug/l
RT: 6.90 min Scan# 546
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion:	62	Resp:	1408430
Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.2





#43

Isopropyl Acetate

Concen: 97.846 ug/l

RT: 8.36 min Scan# 694

Delta R.T. 0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1278963

Ion Ratio Lower Upper

43 100

61 27.2 21.0 31.4

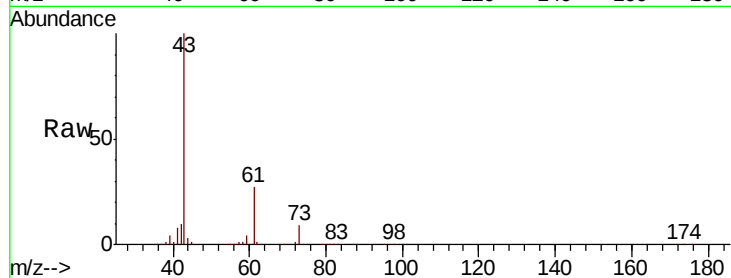
87 0.3 0.2 0.2#

Manual Integrations

APPROVED

apatel

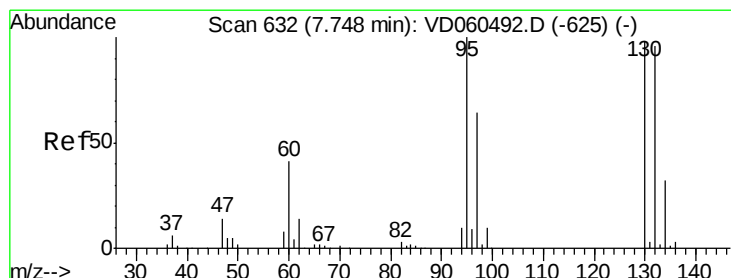
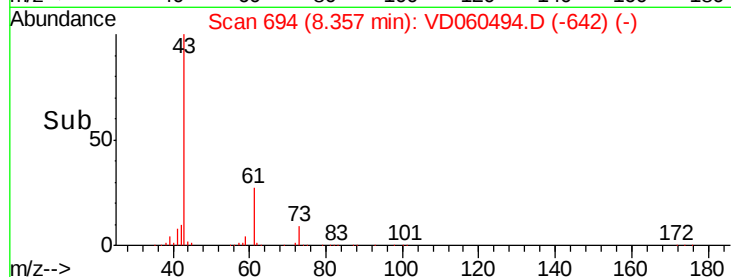
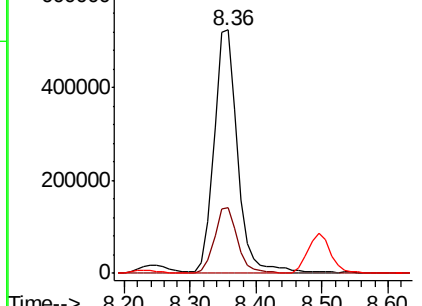
12/6/2018 10:53:46 AM



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: 93.215 ug/l

RT: 7.75 min Scan# 632

Delta R.T. -0.00 min

Lab File: VD060494.D

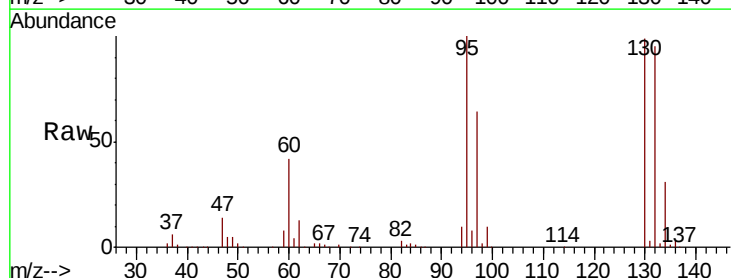
Acq: 5 Dec 2018 16:01

Tgt Ion:130 Resp: 1648896

Ion Ratio Lower Upper

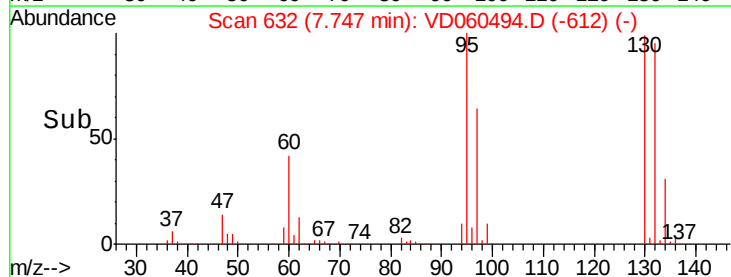
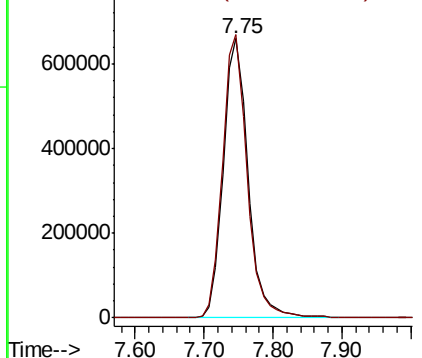
130 100

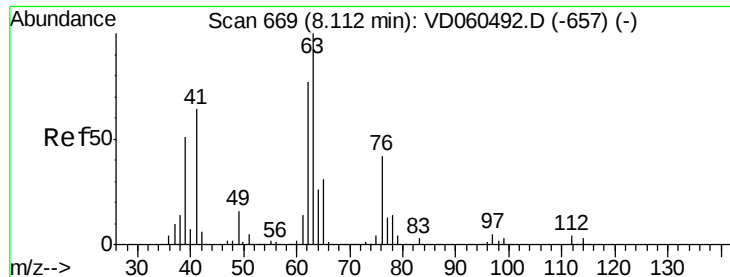
95 101.4 0.0 203.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





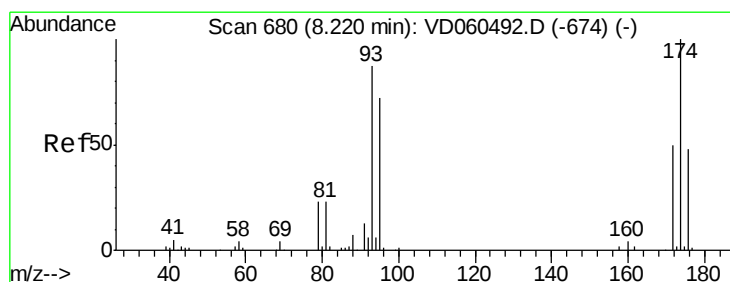
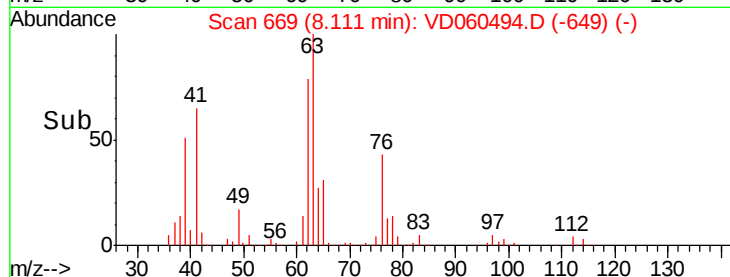
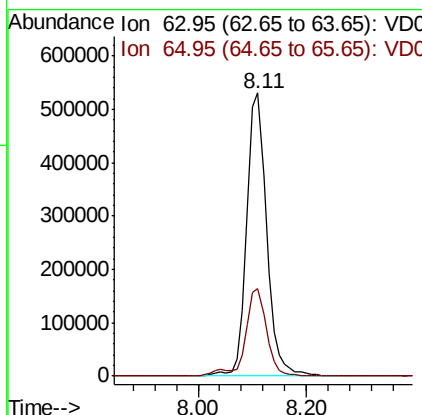
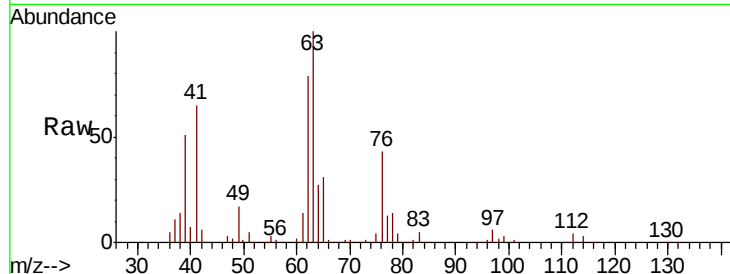
#45
1,2-Dichloropropane
Concen: 92.537 ug/l
RT: 8.11 min Scan# 669
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 63 Resp: 1357547
Ion Ratio Lower Upper
63 100
65 31.1 24.6 37.0

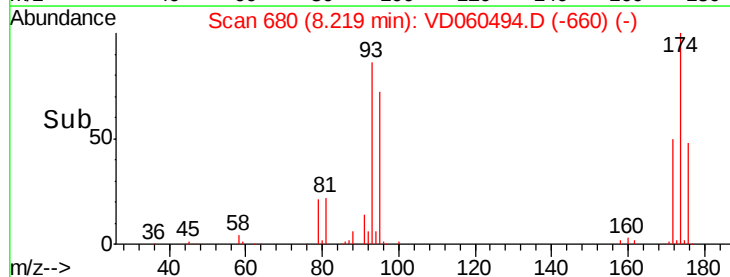
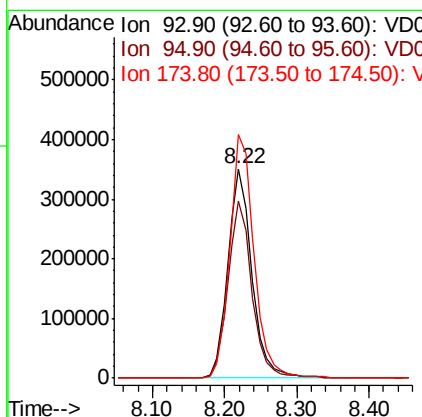
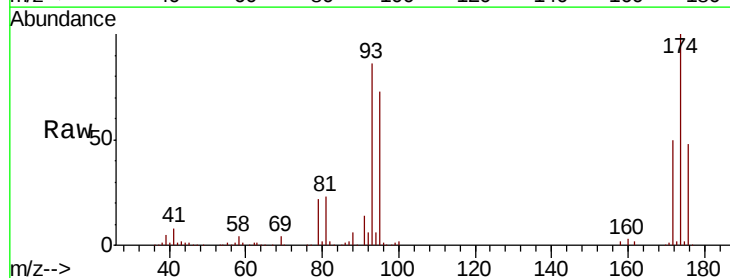
Manual Integrations
APPROVED

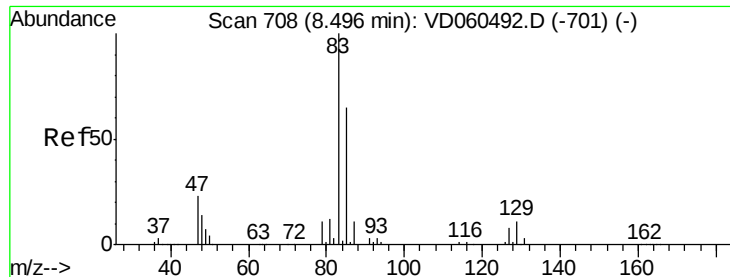
apatel
12/6/2018 10:53:46 AM



#46
Dibromomethane
Concen: 94.575 ug/l
RT: 8.22 min Scan# 680
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 93 Resp: 814140
Ion Ratio Lower Upper
93 100
95 84.5 65.6 98.4
174 116.2 91.7 137.5





#47

Bromodichloromethane

Concen: 94.189 ug/l

RT: 8.49 min Scan# 708

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleID :

VSTDICC100

Tgt Ion: 83 Resp: 1902750

Ion Ratio Lower Upper

83 100

85 65.8 52.2 78.4

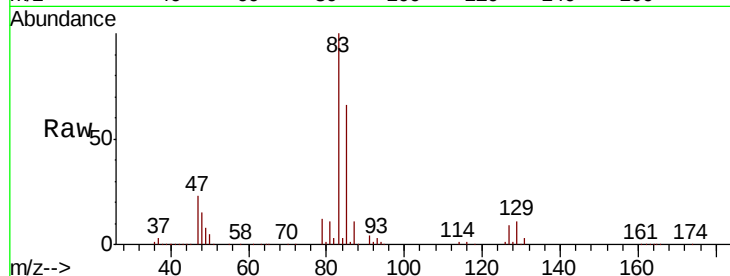
127 8.5 6.7 10.1

Manual Integrations

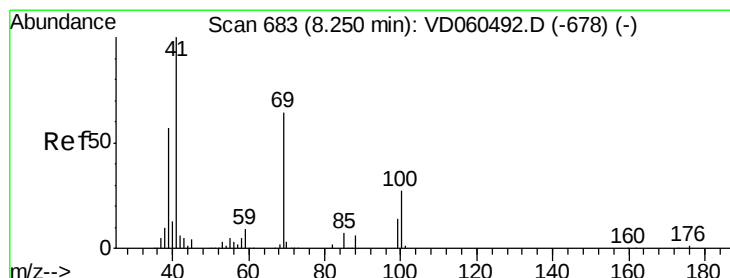
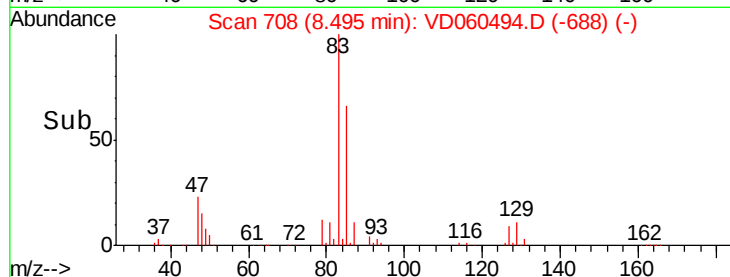
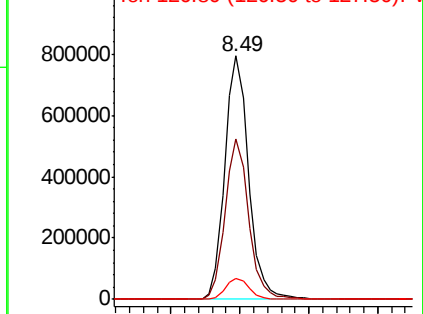
APPROVED

apatel

12/6/2018 10:53:46 AM



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



#48

Methyl methacrylate

Concen: 94.852 ug/l

RT: 8.25 min Scan# 683

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

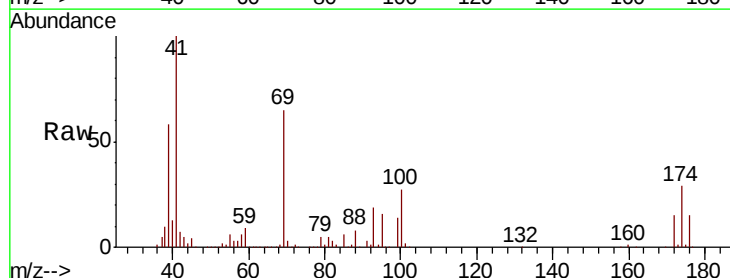
Tgt Ion: 41 Resp: 756202

Ion Ratio Lower Upper

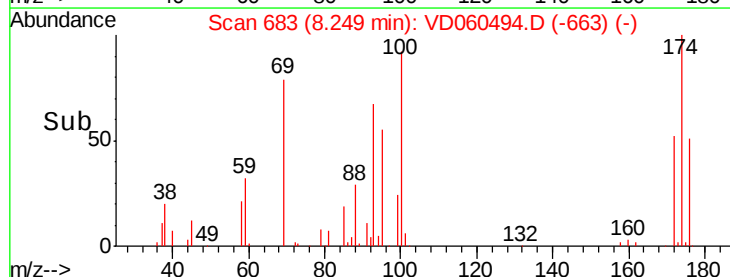
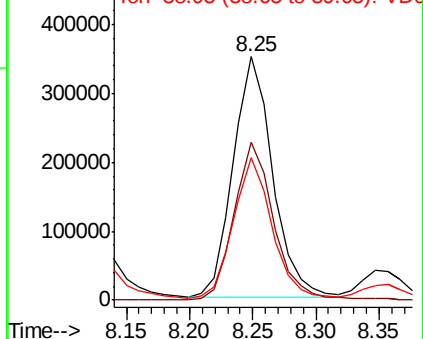
41 100

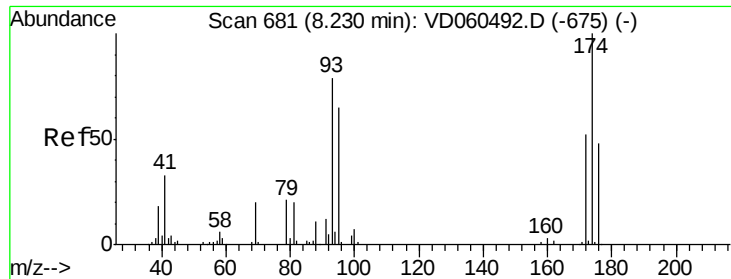
69 64.8 50.2 75.4

39 58.4 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





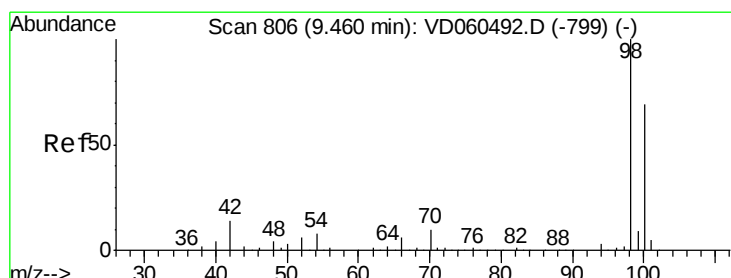
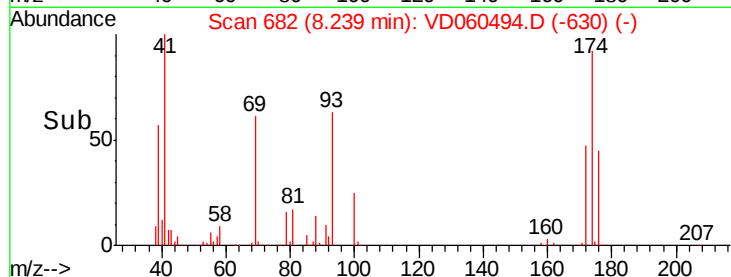
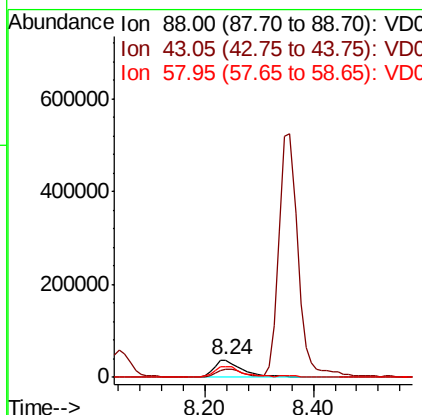
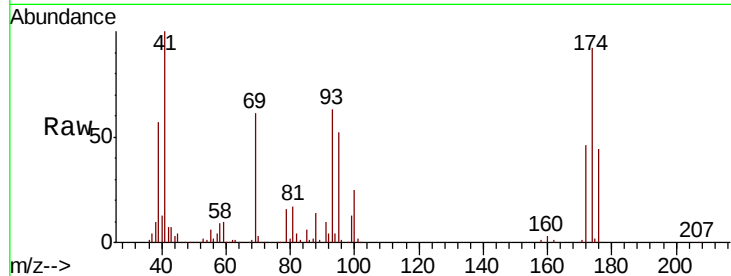
#49
1,4-Dioxane
Concen: 2028.148 ug/l
RT: 8.24 min Scan# 682
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 88 Resp: 141241
Ion Ratio Lower Upper
88 100
43 47.6 32.9 49.3
58 61.9 47.7 71.5

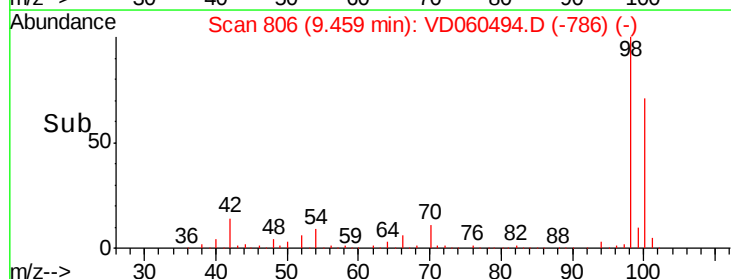
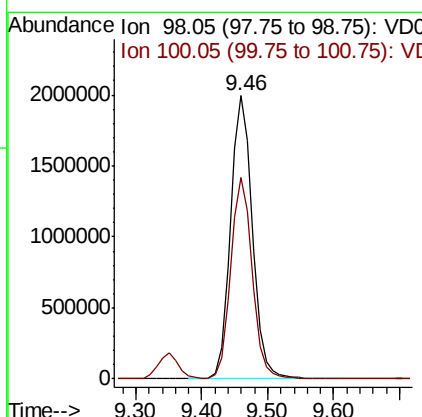
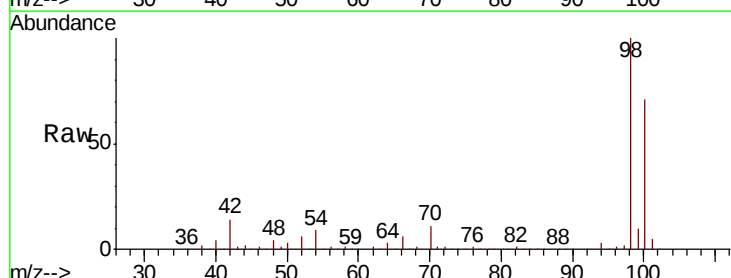
Manual Integrations
APPROVED

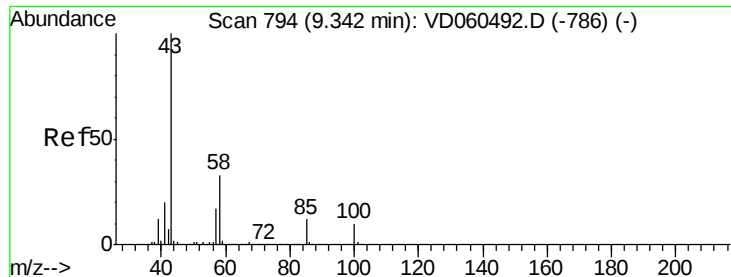
apatel
12/6/2018 10:53:46 AM



#50
Toluene-d8
Concen: 2028.148 ug/l
RT: 9.46 min Scan# 806
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 98 Resp: 4652060
Ion Ratio Lower Upper
98 100
100 71.2 55.7 83.5





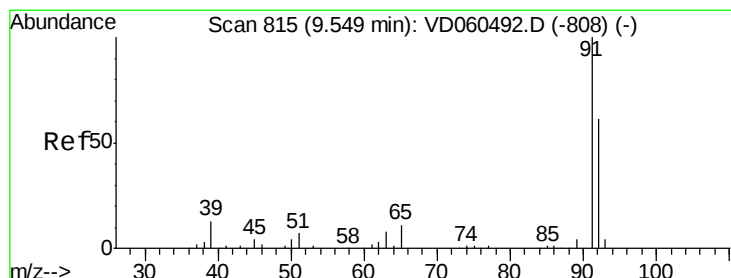
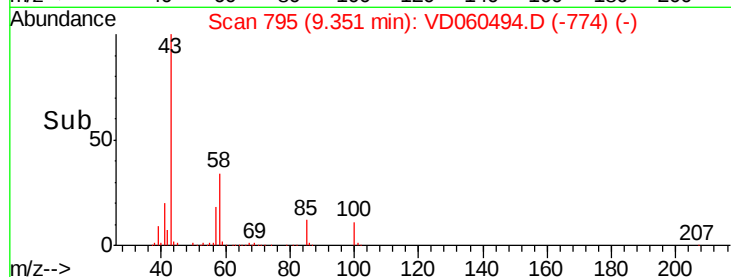
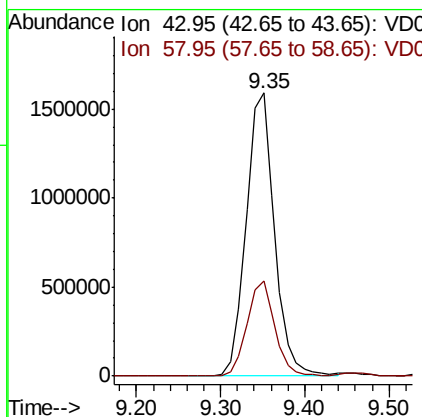
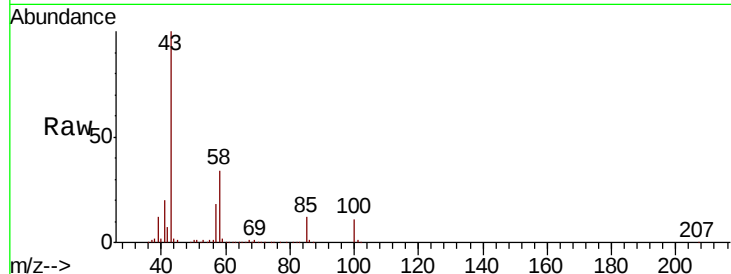
#51
4-Methyl-2-Pentanone
Concen: 440.049 ug/l
RT: 9.35 min Scan# 795
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 3748516
Ion Ratio Lower Upper
43 100
58 33.8 26.3 39.5

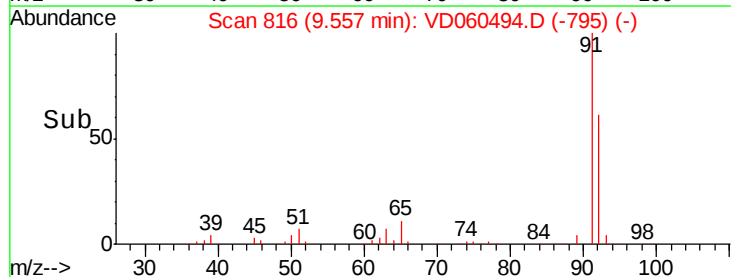
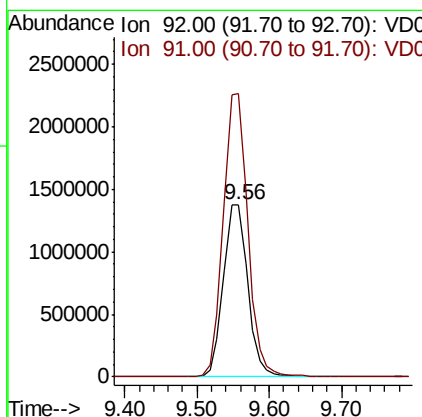
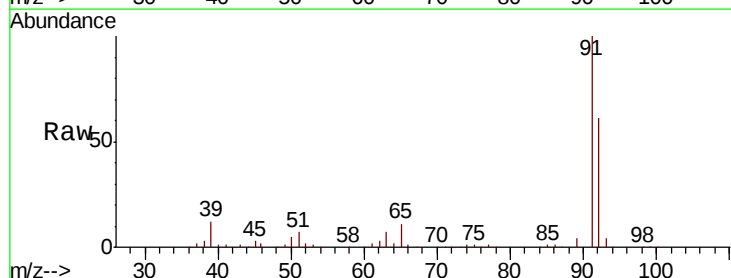
Manual Integrations
APPROVED

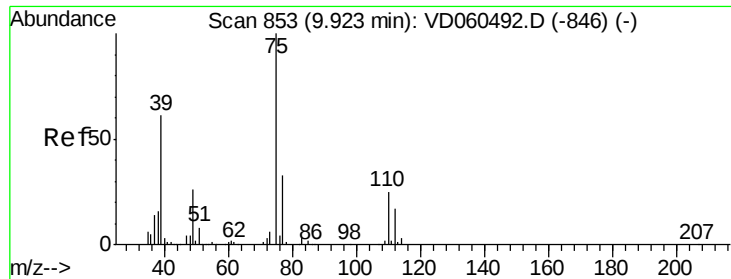
apatel
12/6/2018 10:53:46 AM



#52
Toluene
Concen: 87.824 ug/l
RT: 9.56 min Scan# 816
Delta R.T. 0.01 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 92 Resp: 3267508
Ion Ratio Lower Upper
92 100
91 164.2 131.7 197.5





#53

t-1,3-Dichloropropene

Concen: 94.838 ug/l

RT: 9.92 min Scan# 853

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 1611430

Ion Ratio Lower Upper

75 100

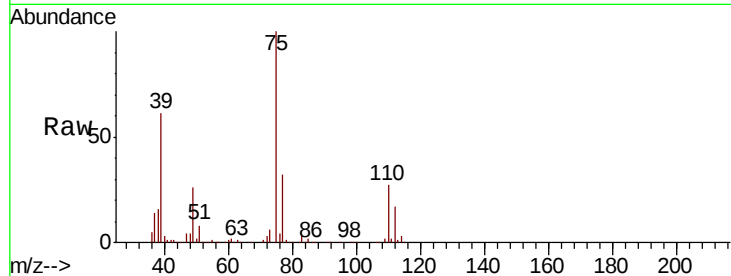
77 32.5 26.2 39.2

Manual Integrations

APPROVED

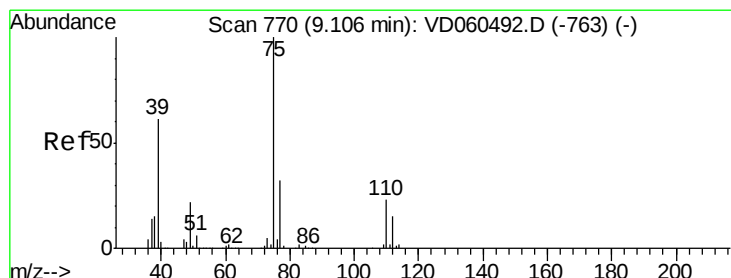
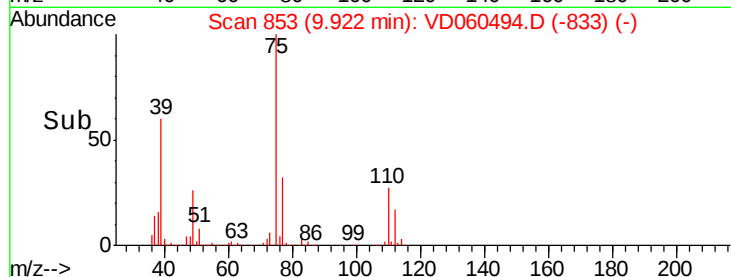
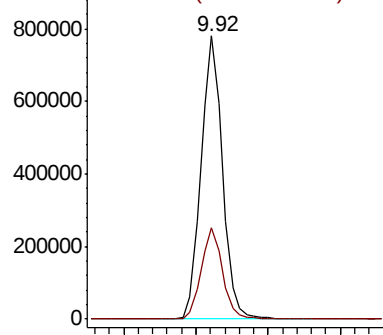
apatel

12/6/2018 10:53:46 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 95.023 ug/l

RT: 9.10 min Scan# 770

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

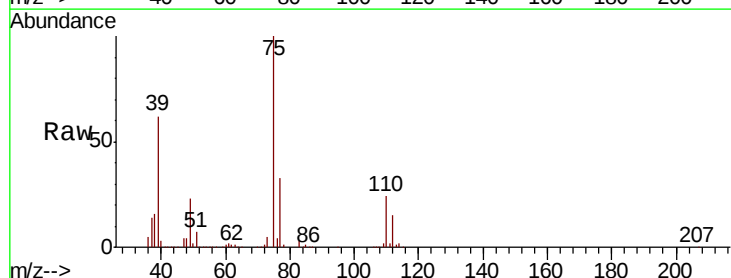
Tgt Ion: 75 Resp: 2088015

Ion Ratio Lower Upper

75 100

77 32.8 25.6 38.4

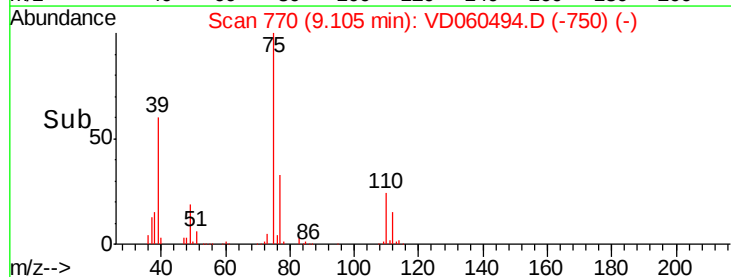
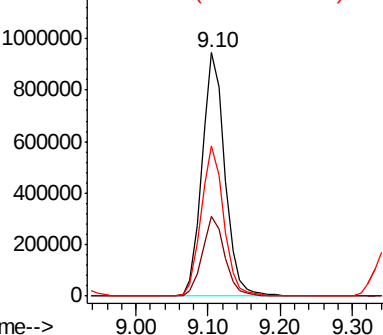
39 61.7 48.6 73.0

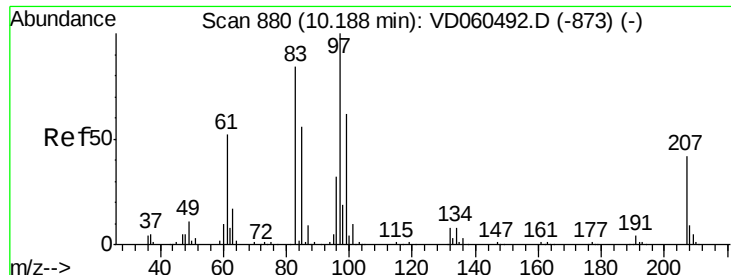


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





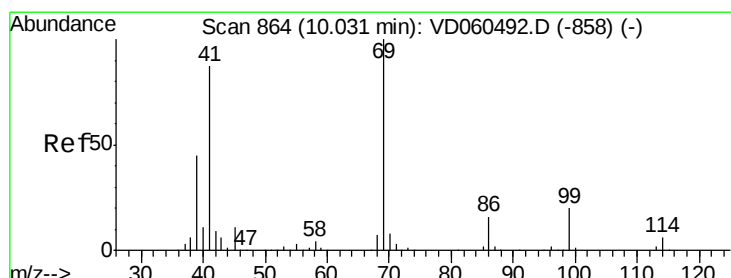
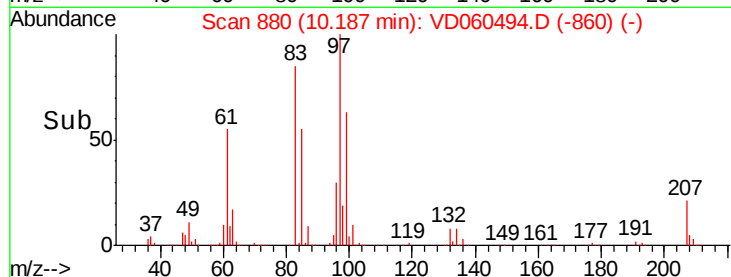
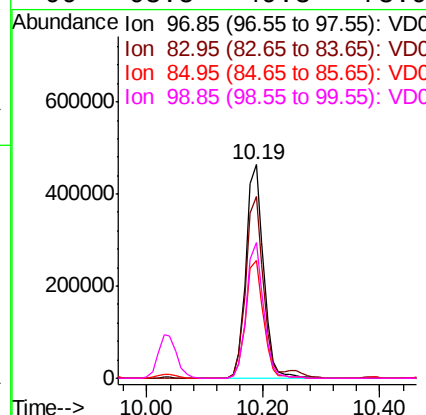
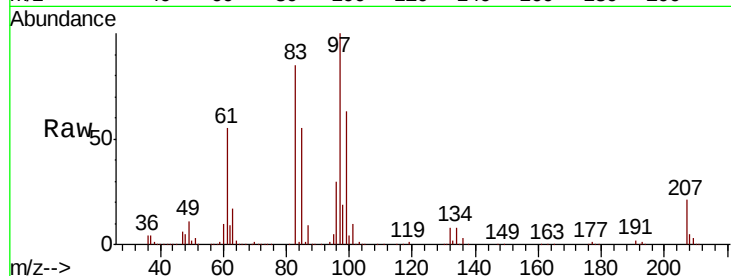
#55
 1,1,2-Trichloroethane
 Concen: 90.617 ug/l
 RT: 10.19 min Scan# 880
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion:	97	Resp:	976263
Ion	Ratio	Lower	Upper
97	100		
83	85.0	67.2	100.8
85	55.3	44.5	66.7
99	63.5	49.3	73.9

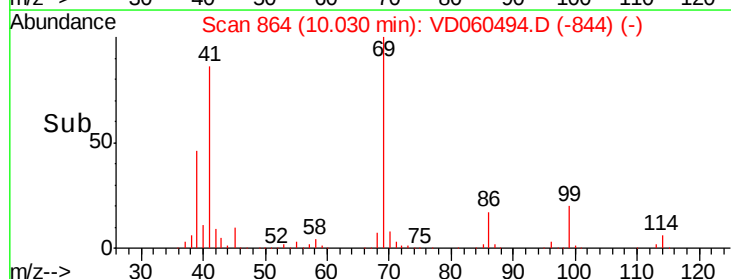
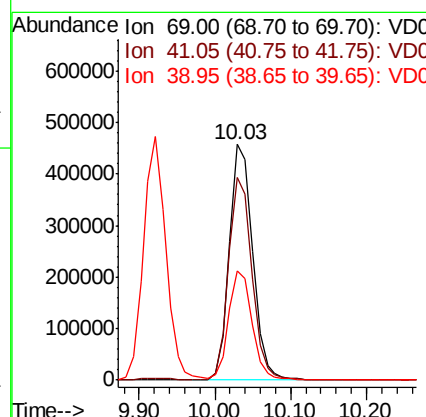
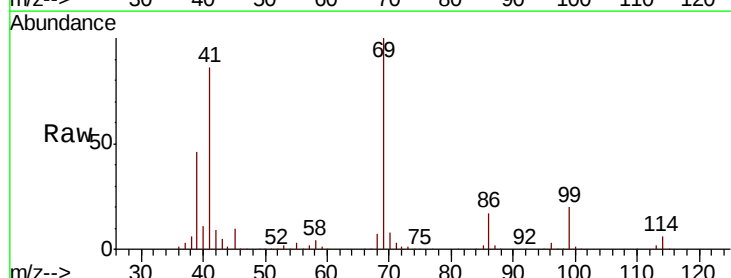
Manual Integrations
 APPROVED

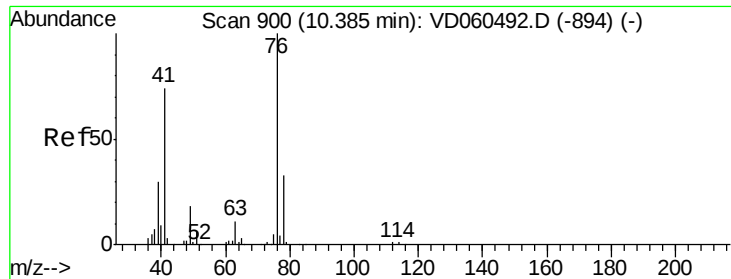
apatel
 12/6/2018 10:53:46 AM



#56
 Ethyl methacrylate
 Concen: 99.128 ug/l
 RT: 10.03 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion:	69	Resp:	975202
Ion	Ratio	Lower	Upper
69	100		
41	85.9	69.8	104.8
39	46.3	37.5	56.3





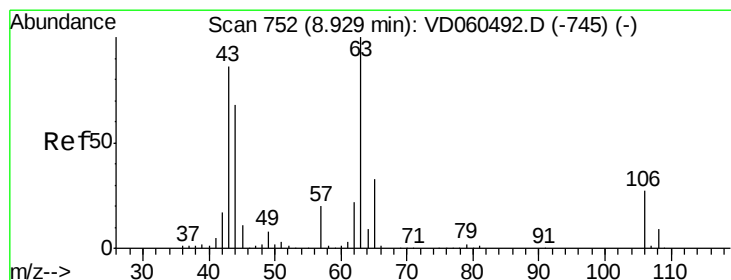
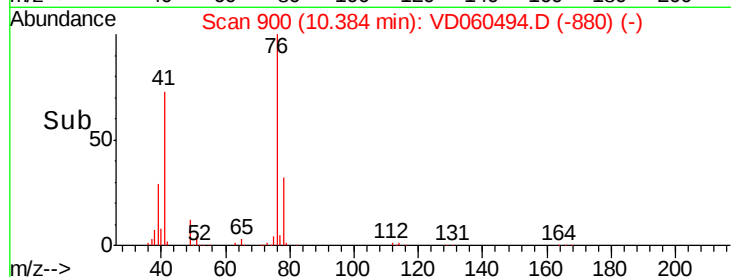
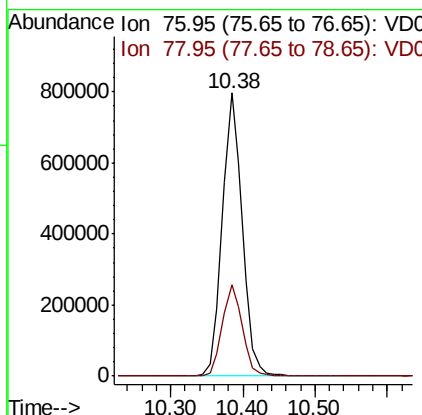
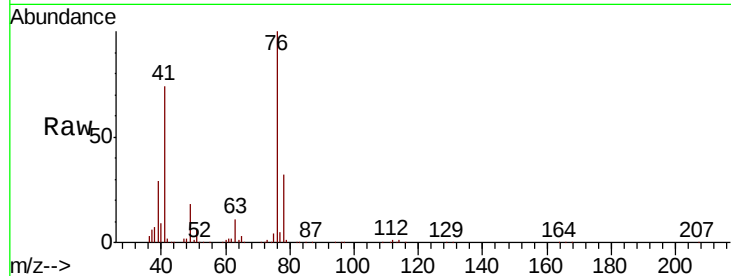
#57
 1,3-Dichloropropane
 Concen: 92.991 ug/l
 RT: 10.38 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Tgt Ion: 76 Resp: 1520742
 Ion Ratio Lower Upper
 76 100
 78 32.3 26.1 39.1

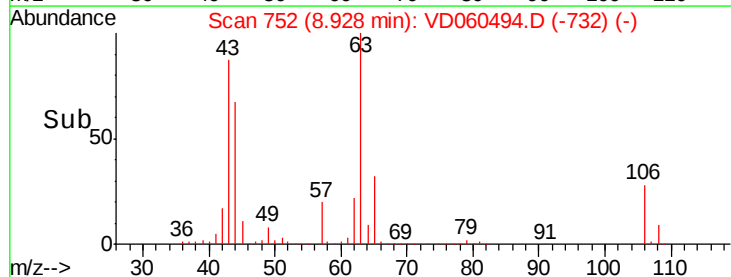
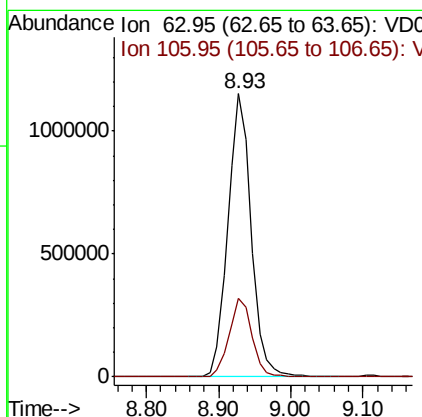
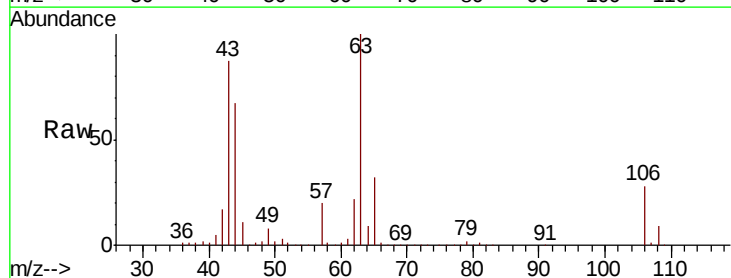
Manual Integrations
 APPROVED

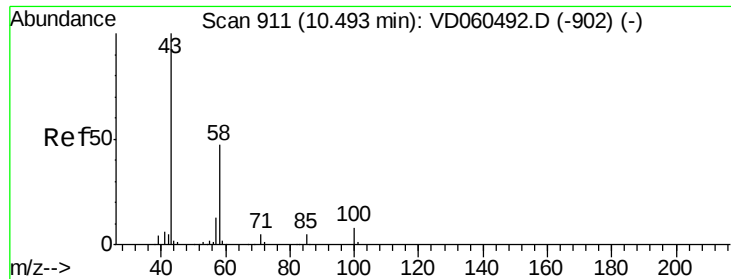
apatel
 12/6/2018 10:53:46 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 436.411 ug/l
 RT: 8.93 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion: 63 Resp: 2583269
 Ion Ratio Lower Upper
 63 100
 106 27.6 21.6 32.4





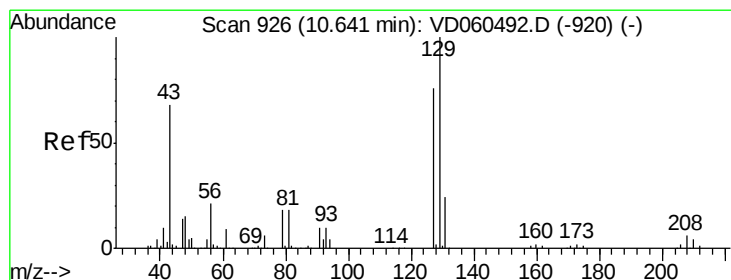
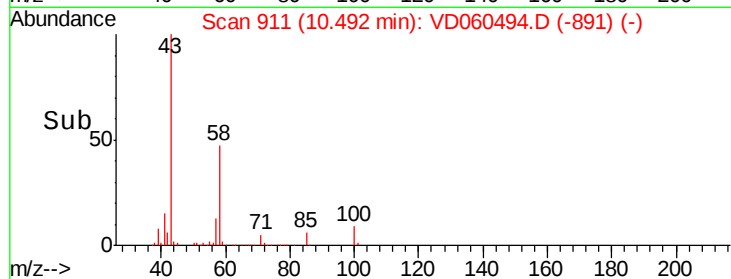
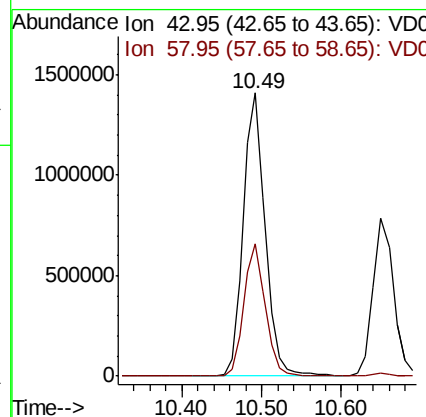
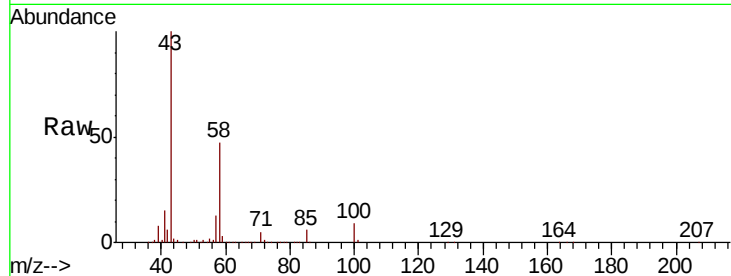
#59
2-Hexanone
Concen: 443.408 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 2677039
Ion Ratio Lower Upper
43 100
58 46.6 23.4 70.2

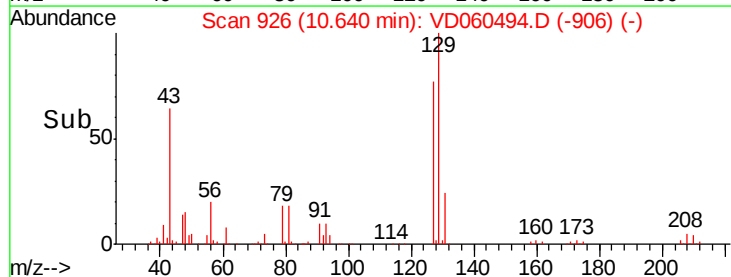
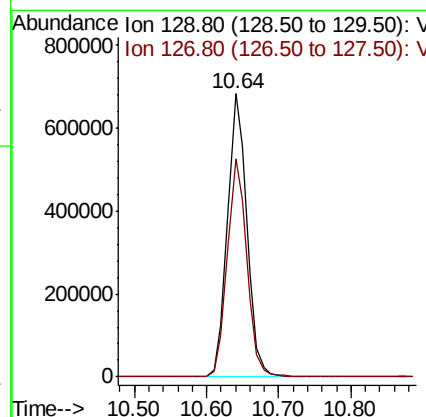
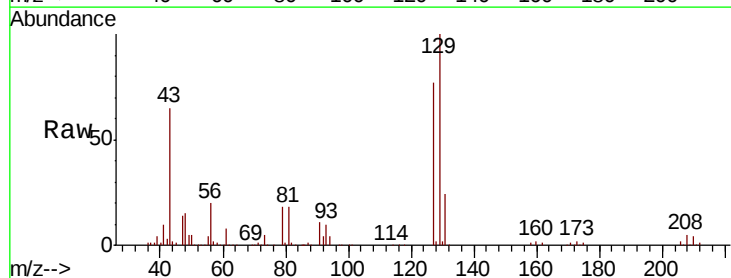
Manual Integrations
APPROVED

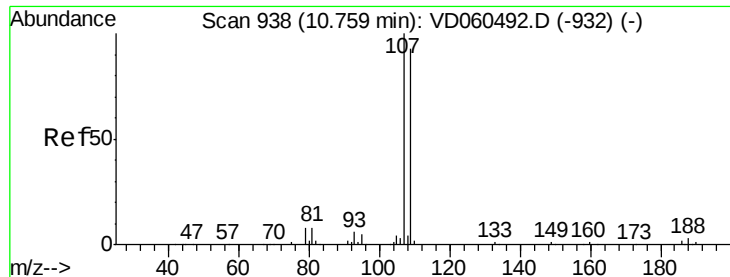
apatel
12/6/2018 10:53:46 AM



#60
Dibromochloromethane
Concen: 97.552 ug/l
RT: 10.64 min Scan# 926
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 129 Resp: 1275418
Ion Ratio Lower Upper
129 100
127 77.3 38.1 114.3





#61

1,2-Dibromoethane

Concen: 96.147 ug/l

RT: 10.76 min Scan# 938

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 107 Resp: 1036273

Ion Ratio Lower Upper

107 100

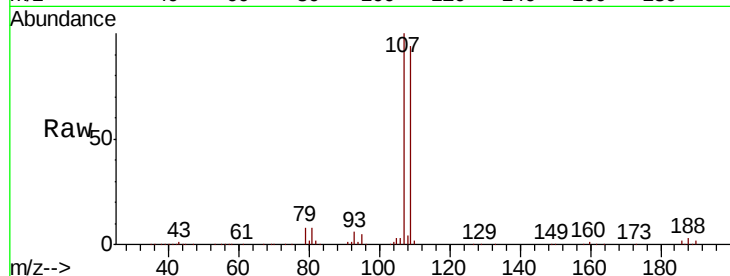
109 93.8 74.7 112.1

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

600000

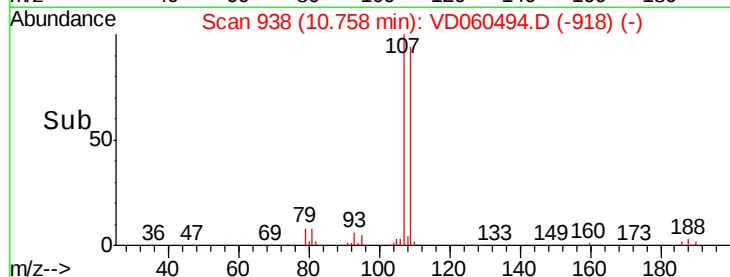
400000

200000

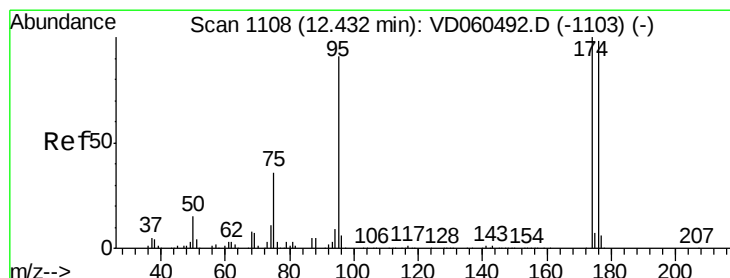
0

10.76

10.60 10.70 10.80 10.90



Time-->



#62

4-Bromofluorobenzene

Concen: 96.147 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

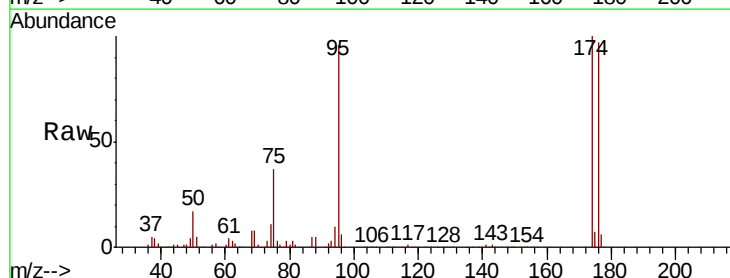
Tgt Ion: 95 Resp: 1676757

Ion Ratio Lower Upper

95 100

174 104.2 0.0 219.4

176 100.8 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

1500000

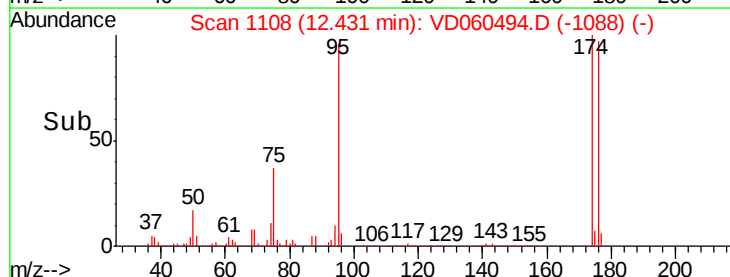
1000000

500000

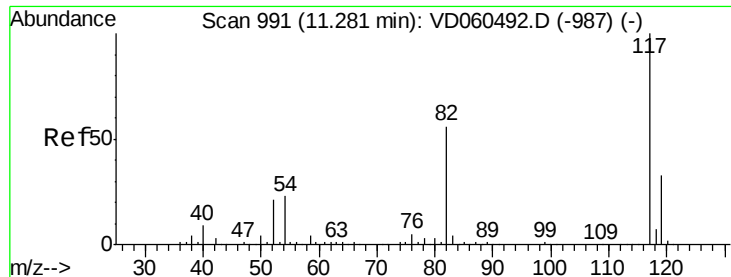
0

12.43

12.40 12.50



Time-->



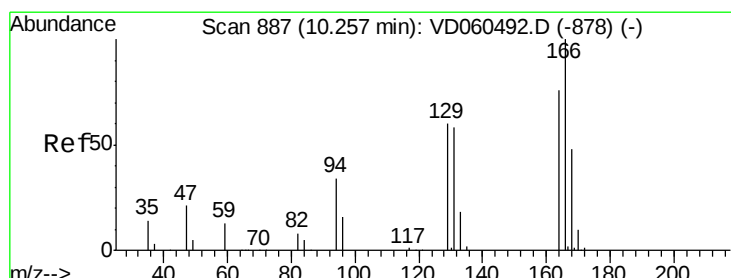
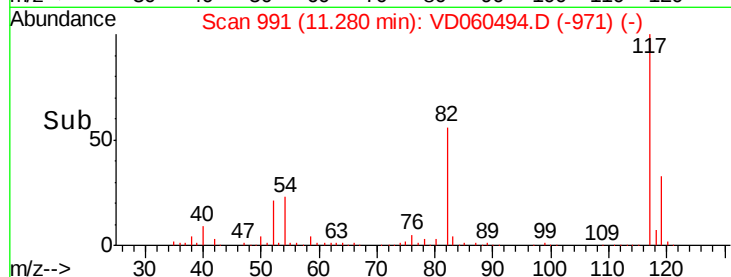
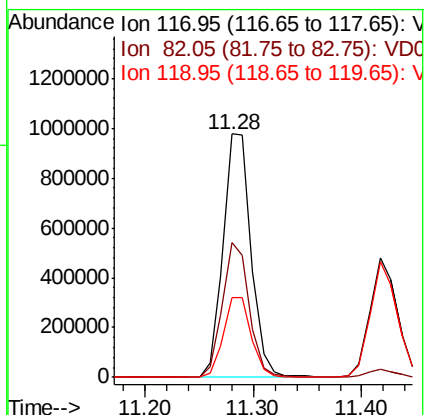
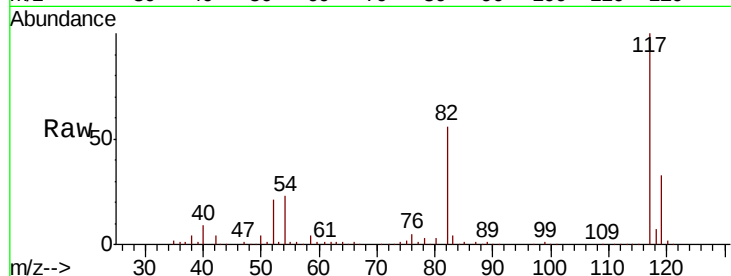
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion:117 Resp: 1757165
Ion Ratio Lower Upper
117 100
82 55.6 45.2 67.8
119 32.9 26.1 39.1

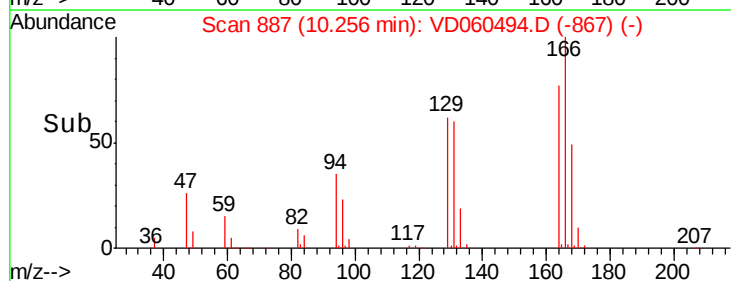
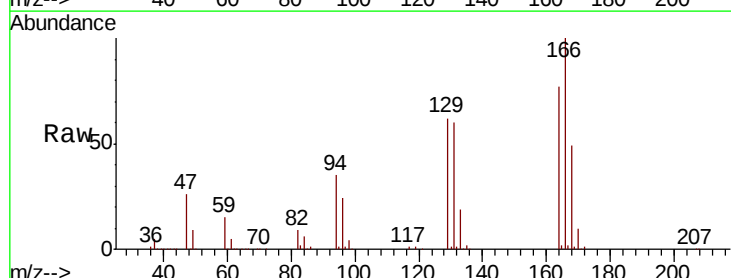
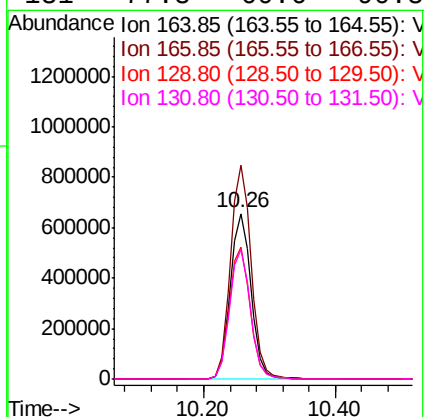
Manual Integrations
APPROVED

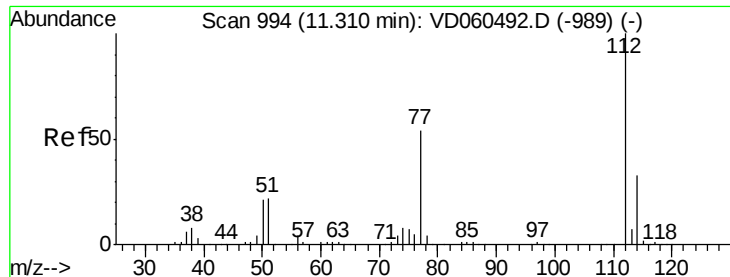
apatel
12/6/2018 10:53:46 AM



#64
Tetrachloroethene
Concen: 92.545 ug/l
RT: 10.26 min Scan# 887
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion:164 Resp: 1455795
Ion Ratio Lower Upper
164 100
166 129.1 105.0 157.6
129 80.0 63.0 94.4
131 77.8 60.6 90.8





#65

Chlorobenzene

Concen: 92.432 ug/l

RT: 11.32 min Scan# 995

Delta R.T. 0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 3508784

Ion Ratio Lower Upper

112 100

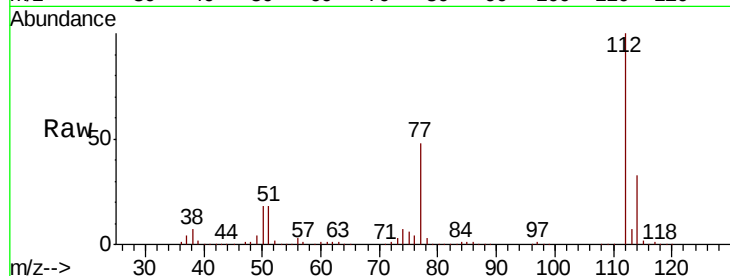
114 32.7 26.2 39.4

Manual Integrations

APPROVED

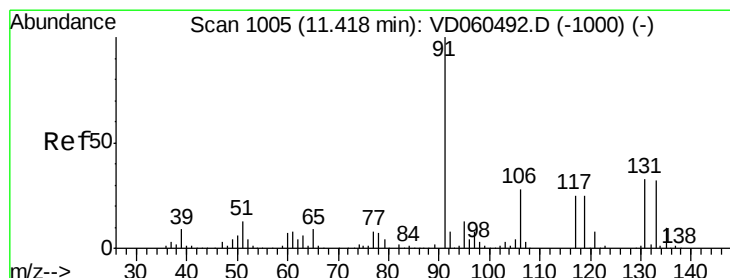
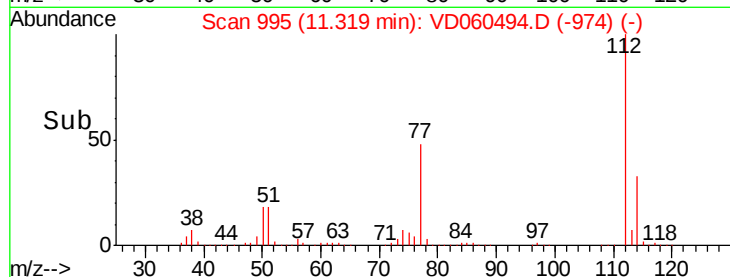
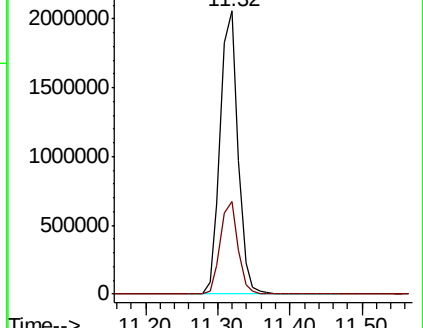
apatel

12/6/2018 10:53:46 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 87.698 ug/l

RT: 11.42 min Scan# 1005

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

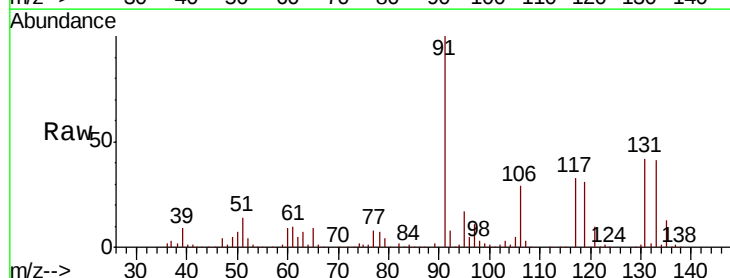
Tgt Ion:131 Resp: 1088685

Ion Ratio Lower Upper

131 100

133 96.5 49.1 147.3

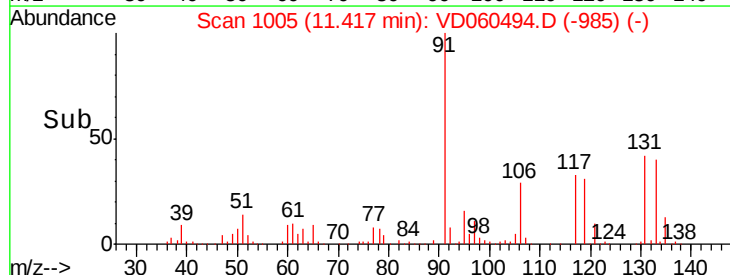
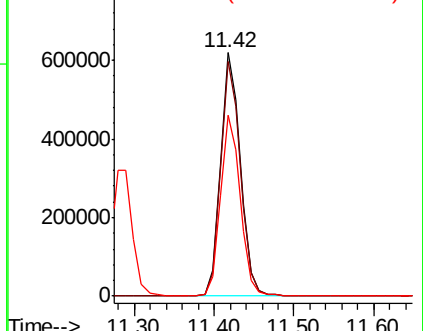
119 74.5 37.5 112.3



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V





#67

Ethyl Benzene

Concen: 81.653 ug/l

RT: 11.43 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 5321688

Ion Ratio Lower Upper

91 100

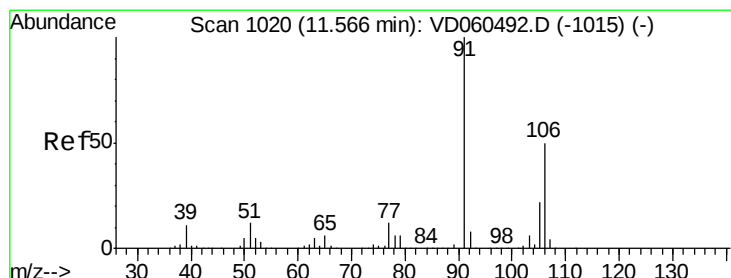
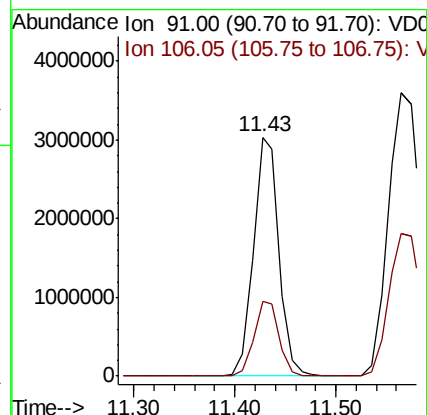
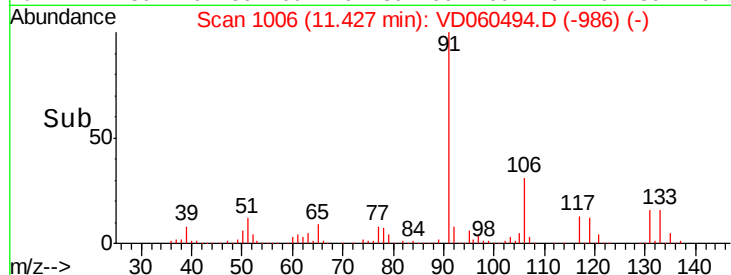
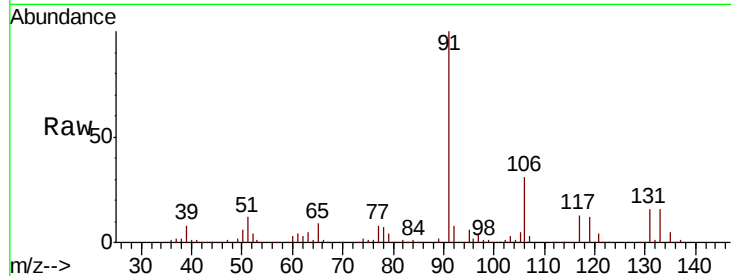
106 31.4 24.6 37.0

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



#68

m/p-Xylenes

Concen: 165.899 ug/l

RT: 11.56 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD060494.D

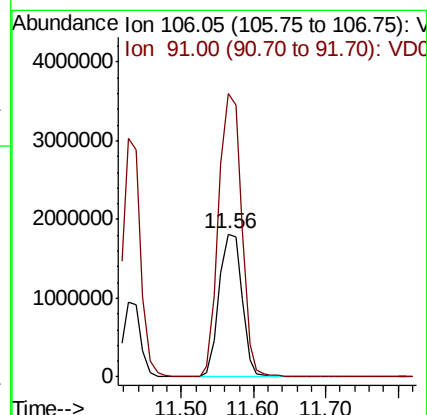
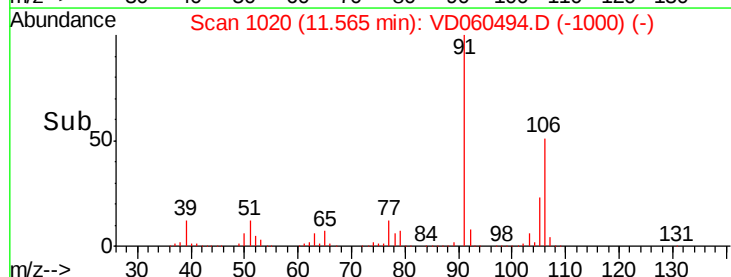
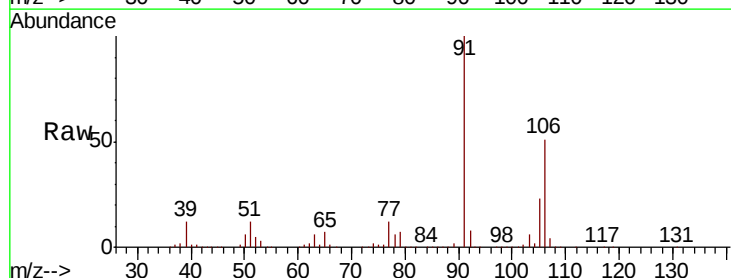
Acq: 5 Dec 2018 16:01

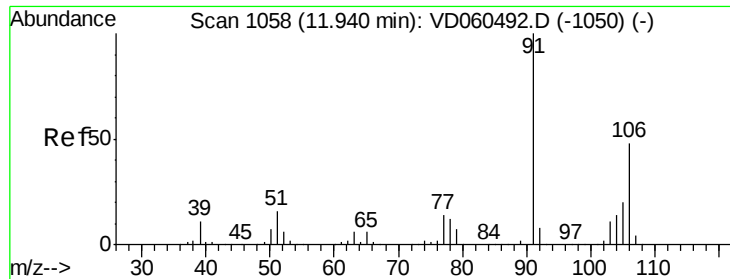
Tgt Ion: 106 Resp: 3978527

Ion Ratio Lower Upper

106 100

91 197.7 160.5 240.7





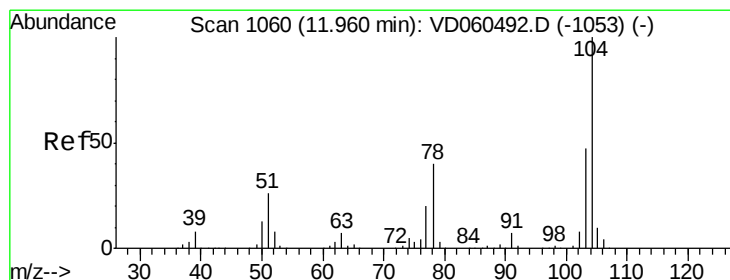
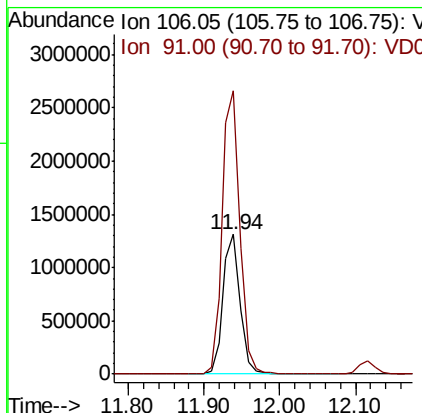
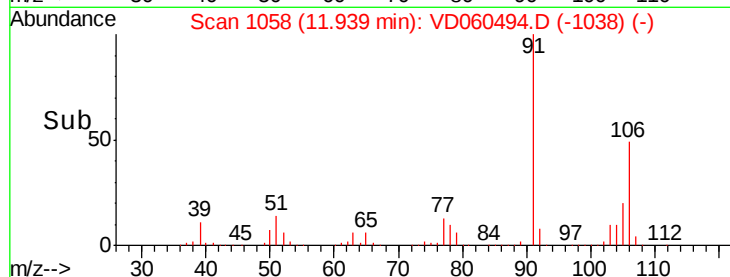
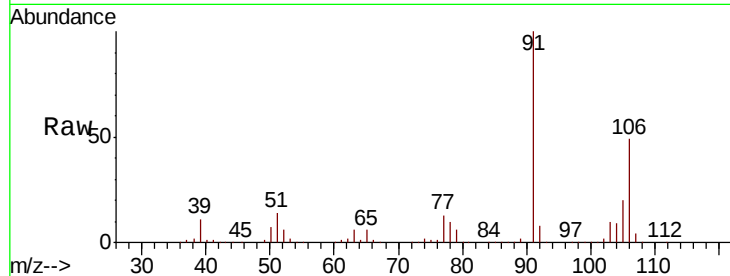
#69
o-Xylene
Concen: 88.823 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion:106 Resp: 2055838
Ion Ratio Lower Upper
106 100
91 202.8 103.4 310.1

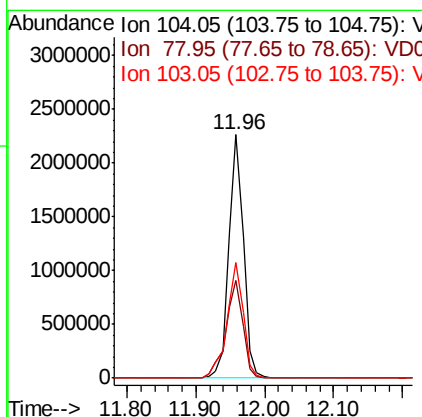
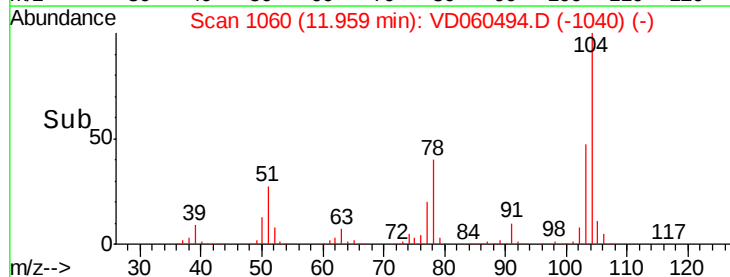
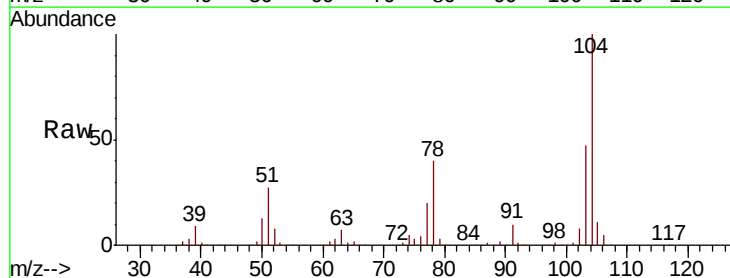
Manual Integrations
APPROVED

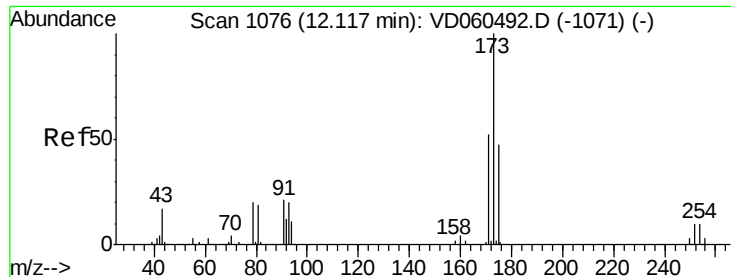
apatel
12/6/2018 10:53:46 AM



#70
Styrene
Concen: 88.364 ug/l
RT: 11.96 min Scan# 1060
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion:104 Resp: 3322370
Ion Ratio Lower Upper
104 100
78 40.2 32.1 48.1
103 47.3 37.2 55.8





#71

Bromoform

Concen: 105.573 ug/l

RT: 12.12 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion:173 Resp: 883568

Ion Ratio Lower Upper

173 100

175 48.2 23.5 70.6

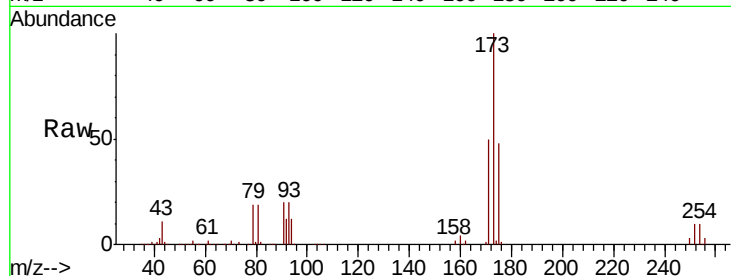
254 9.6 7.8 11.8

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM

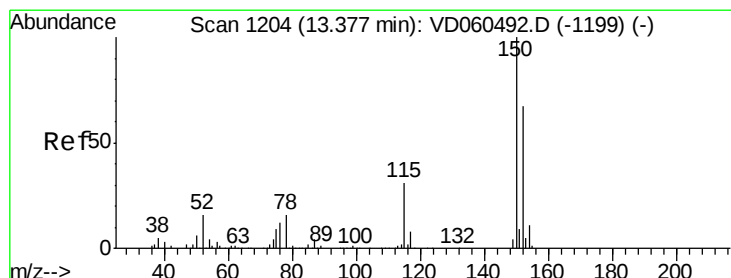
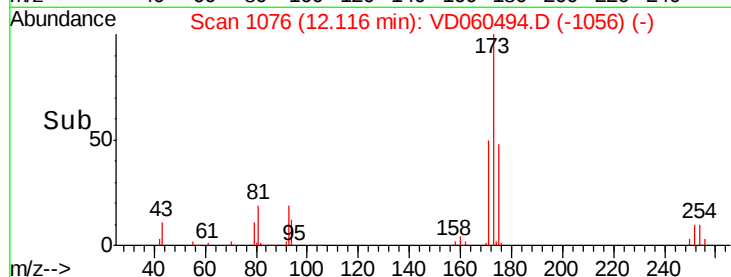
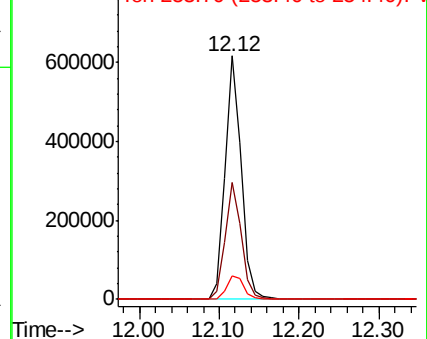


Abundance

Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

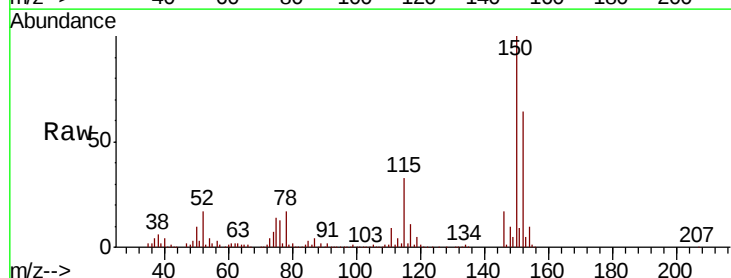
Tgt Ion:152 Resp: 901198

Ion Ratio Lower Upper

152 100

115 51.5 24.6 74.0

150 155.8 0.0 309.0

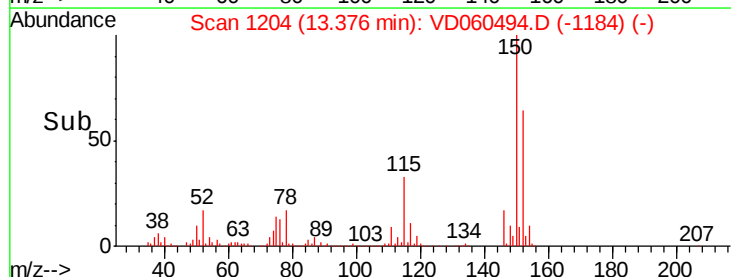
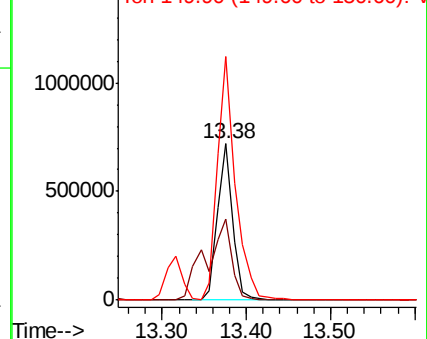


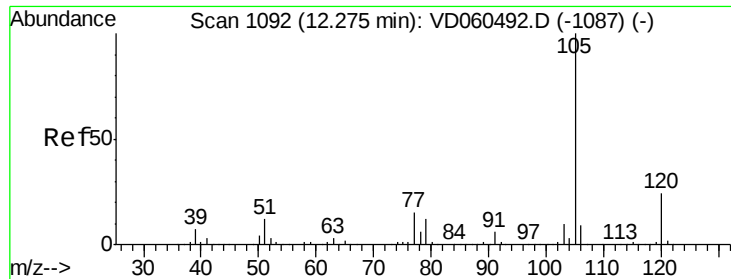
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 84.217 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 105 Resp: 5548583

Ion Ratio Lower Upper

105 100

120 24.2

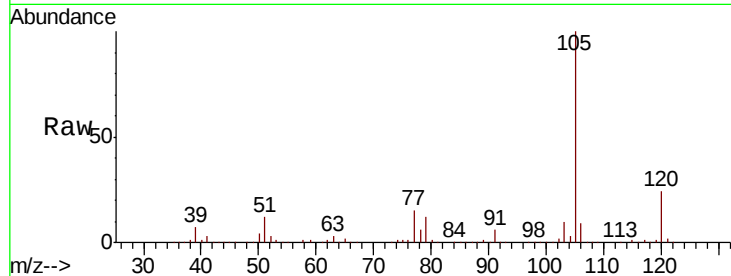
11.9 35.9

Manual Integrations

APPROVED

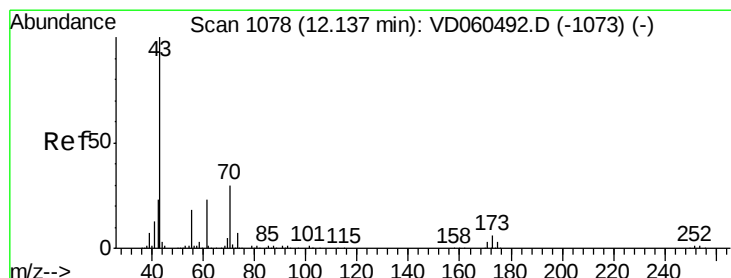
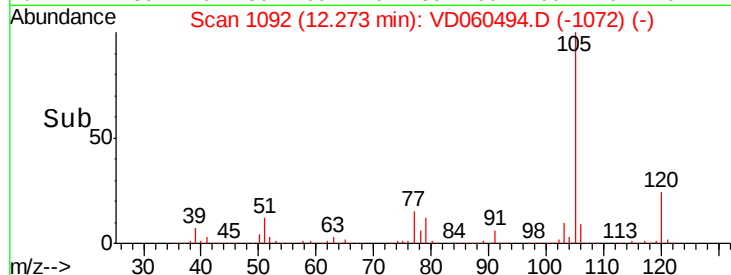
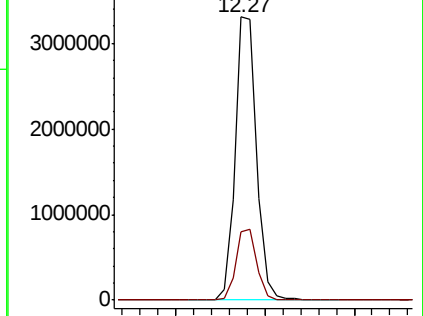
apatel

12/6/2018 10:53:46 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 96.670 ug/l

RT: 12.14 min Scan# 1078

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Tgt Ion: 43 Resp: 1623393

Ion Ratio Lower Upper

43 100

70 28.6

55 17.6

61 23.3

23.8 35.8

14.2 21.2

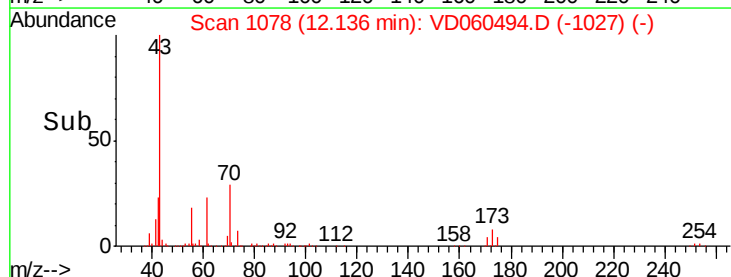
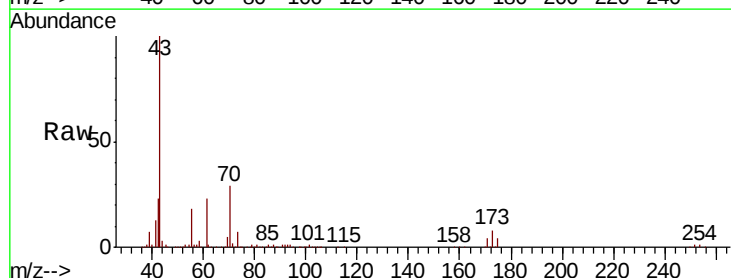
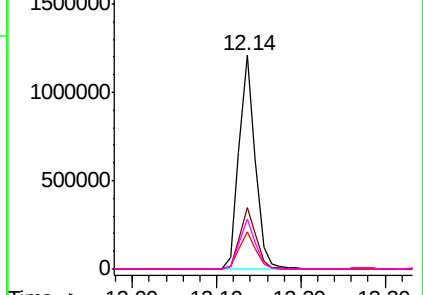
18.1 27.1

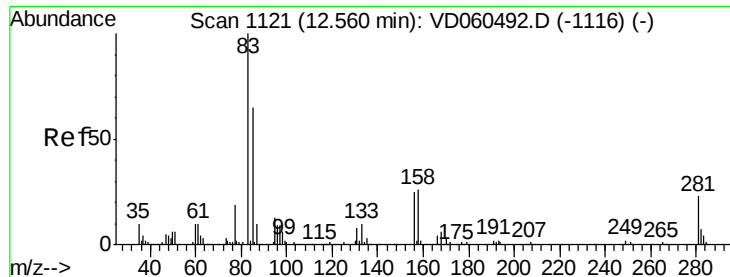
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 93.806 ug/l

RT: 12.57 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 1000306

Ion Ratio Lower Upper

83 100

131 9.5 3.8 11.4

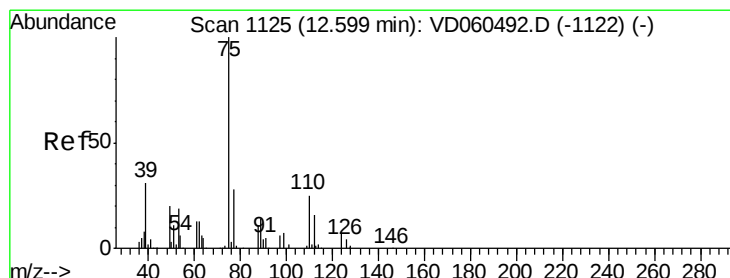
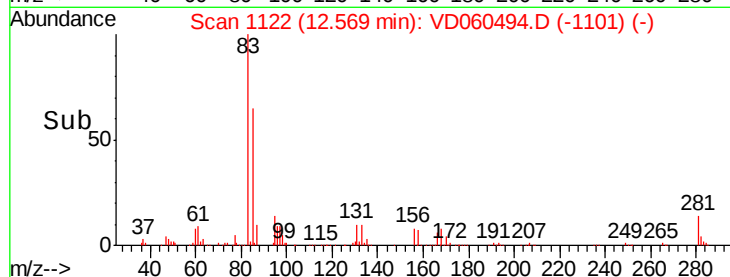
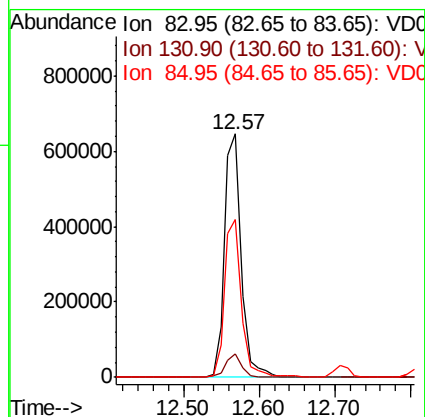
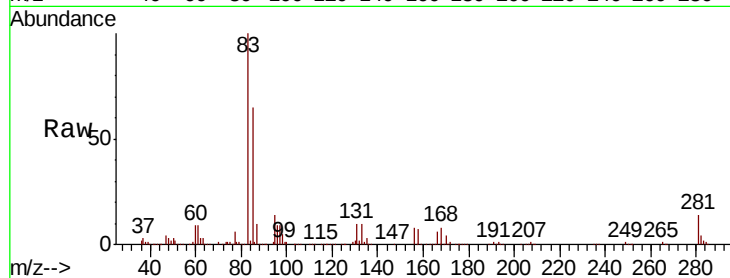
85 65.0 32.3 96.9

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



#76

1,2,3-Trichloropropane

Concen: 94.373 ug/l

RT: 12.60 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VD060494.D

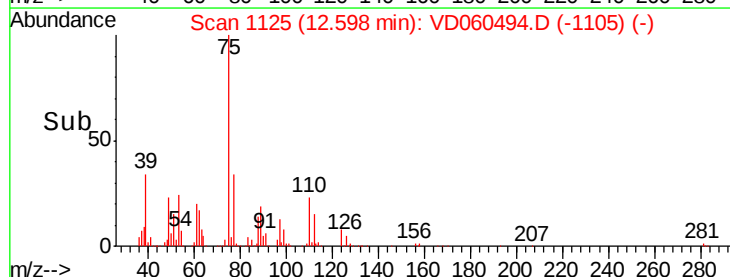
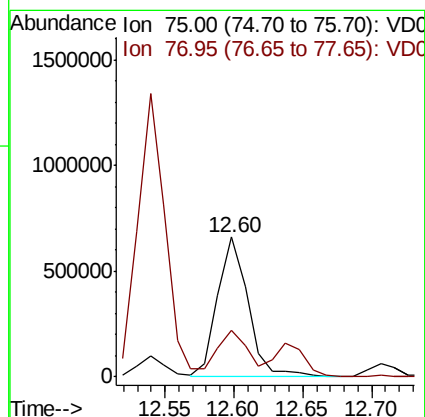
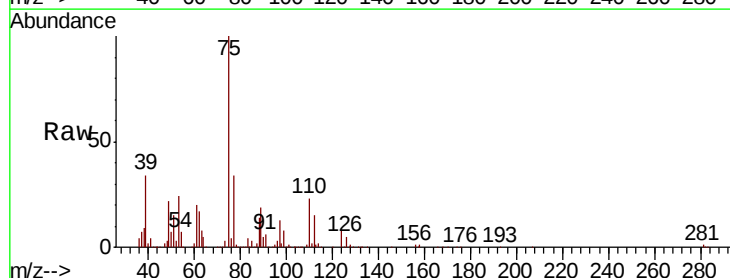
Acq: 5 Dec 2018 16:01

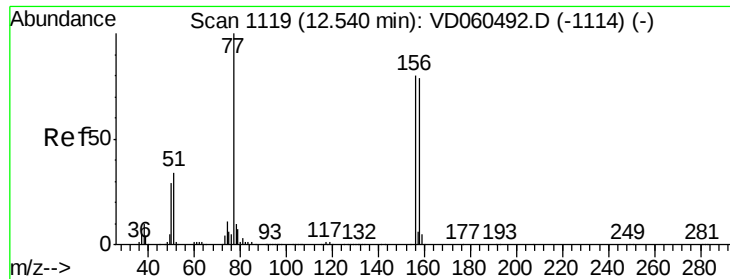
Tgt Ion: 75 Resp: 1013102

Ion Ratio Lower Upper

75 100

77 33.6 16.4 49.4





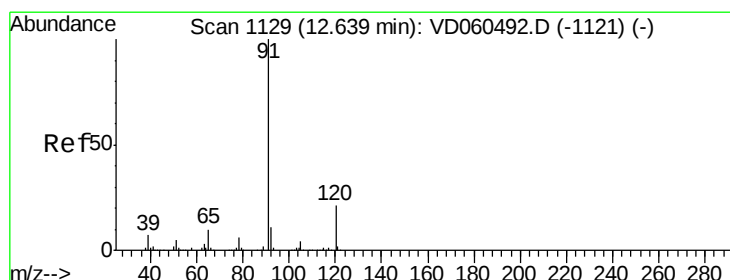
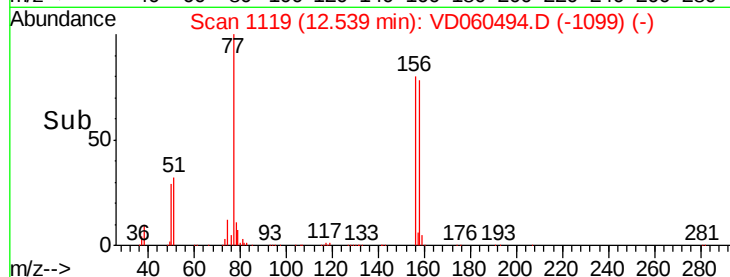
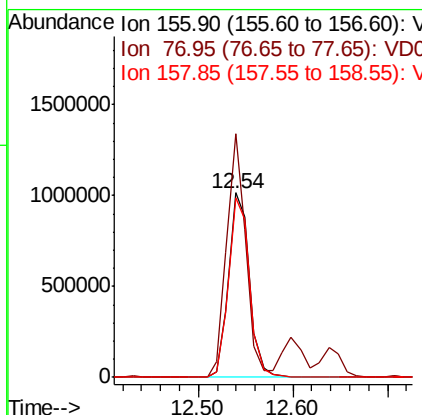
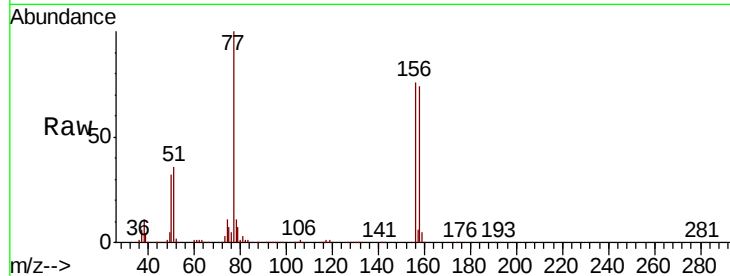
#77
Bromobenzene
Concen: 88.823 ug/l
RT: 12.54 min Scan# 1119
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion: 156 Resp: 1547224
Ion Ratio Lower Upper
156 100
77 132.1 62.5 187.6
158 97.4 49.4 148.2

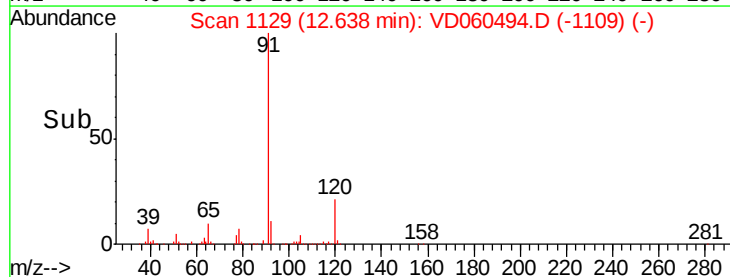
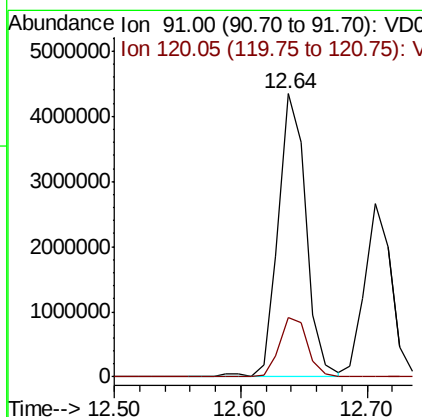
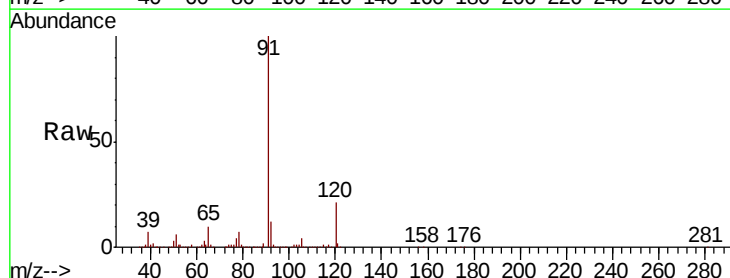
Manual Integrations
APPROVED

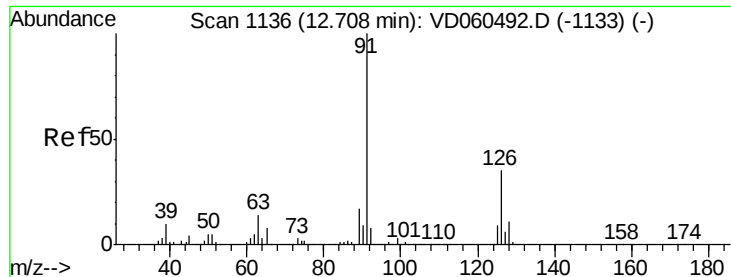
apatel
12/6/2018 10:53:46 AM



#78
n-propylbenzene
Concen: 81.431 ug/l
RT: 12.64 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 91 Resp: 6653275
Ion Ratio Lower Upper
91 100
120 20.8 10.4 31.1





#79

2-Chlorotoluene

Concen: 85.984 ug/l

RT: 12.71 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 3867299

Ion Ratio Lower Upper

91 100

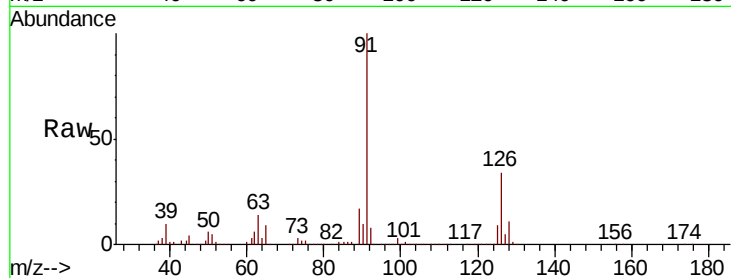
126 34.0 17.3 52.0

Manual Integrations

APPROVED

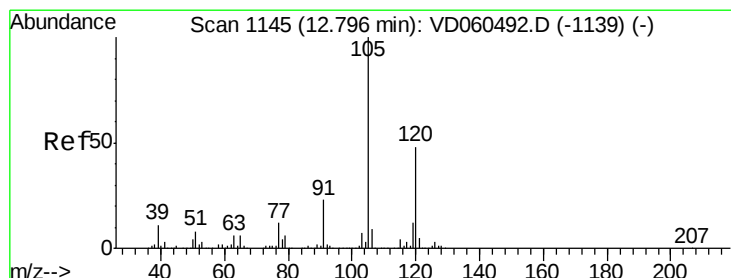
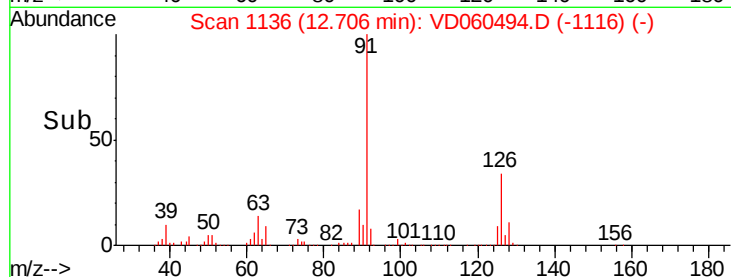
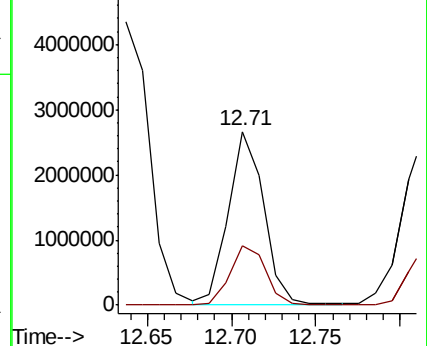
apatel

12/6/2018 10:53:46 AM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 80.118 ug/l

RT: 12.80 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VD060494.D

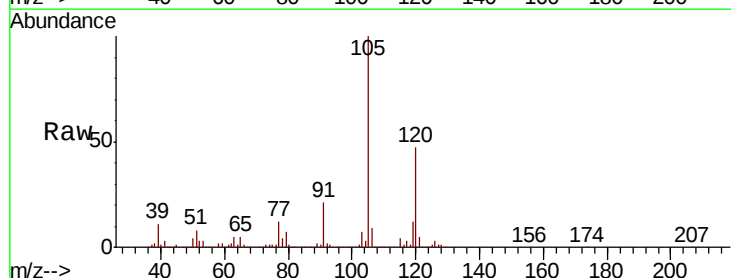
Acq: 5 Dec 2018 16:01

Tgt Ion: 105 Resp: 4068417

Ion Ratio Lower Upper

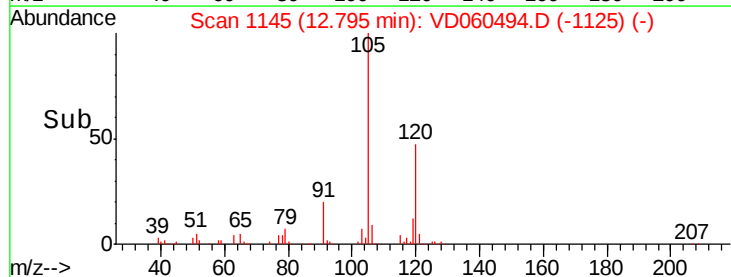
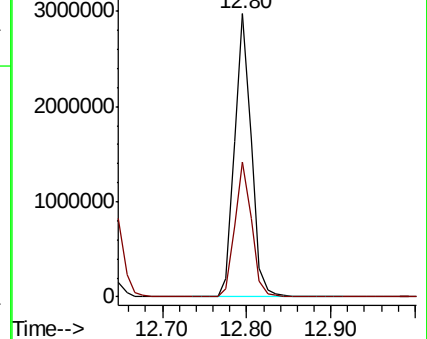
105 100

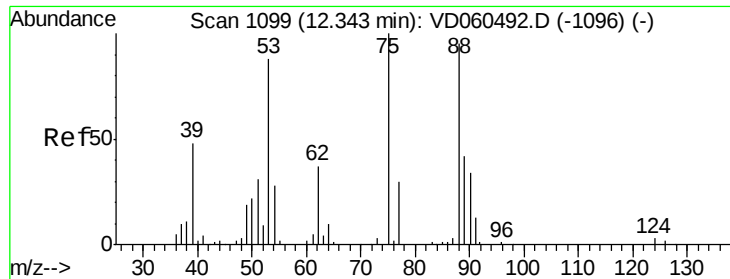
120 47.5 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 100.394 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VD060494.D

Acq: 5 Dec 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 307023

Ion Ratio Lower Upper

75 100

53 87.9 70.5 105.7

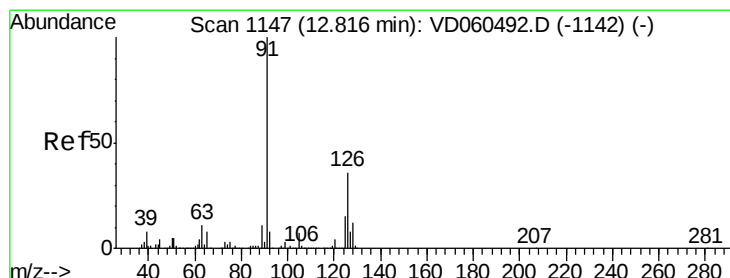
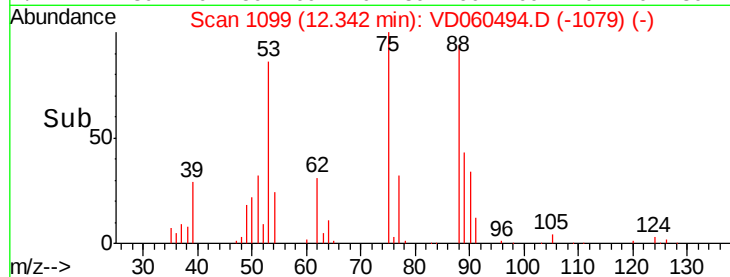
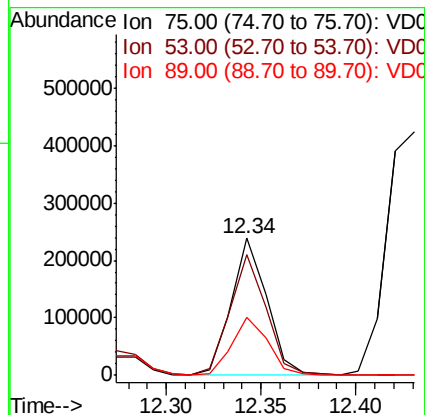
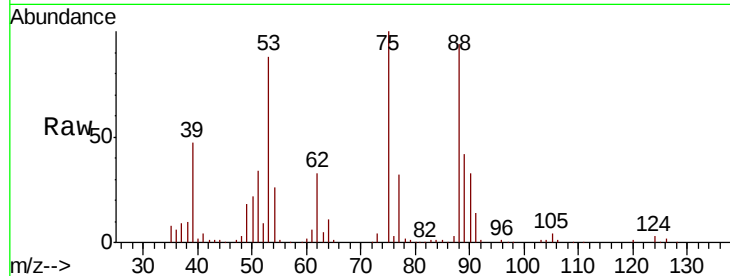
89 42.4 33.6 50.4

Manual Integrations

APPROVED

apatel

12/6/2018 10:53:46 AM



#82

4-Chlorotoluene

Concen: 79.395 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VD060494.D

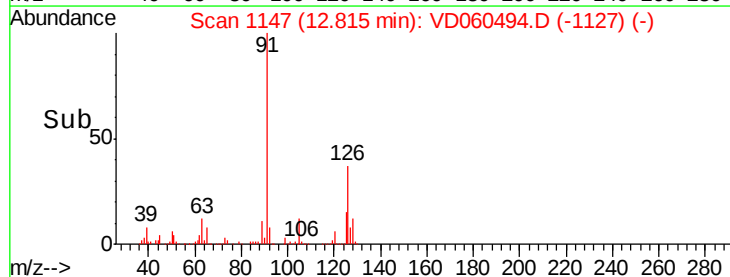
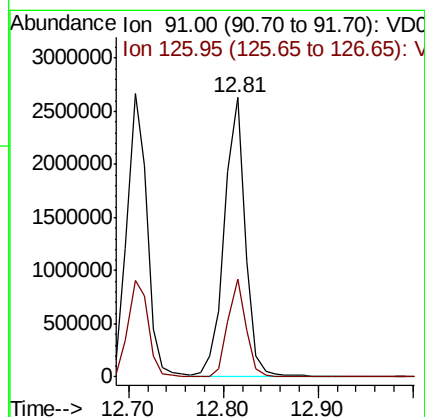
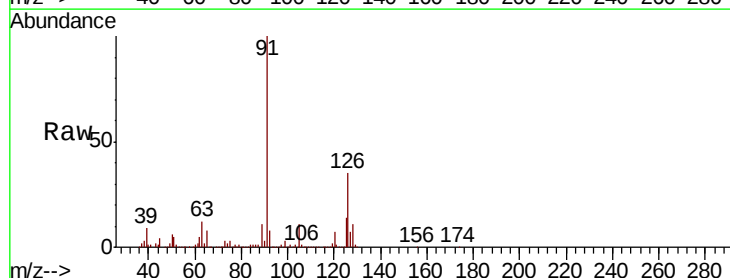
Acq: 5 Dec 2018 16:01

Tgt Ion: 91 Resp: 3996449

Ion Ratio Lower Upper

91 100

126 34.9 17.8 53.4





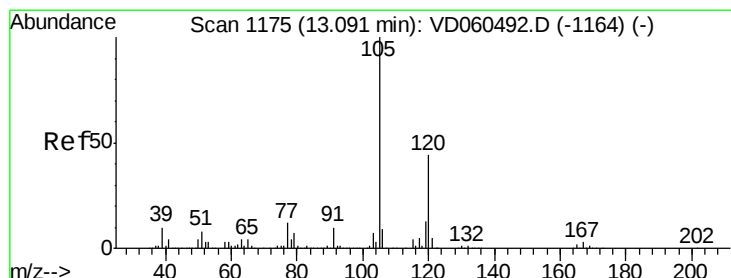
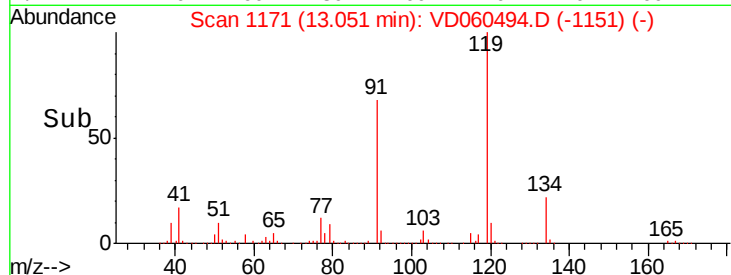
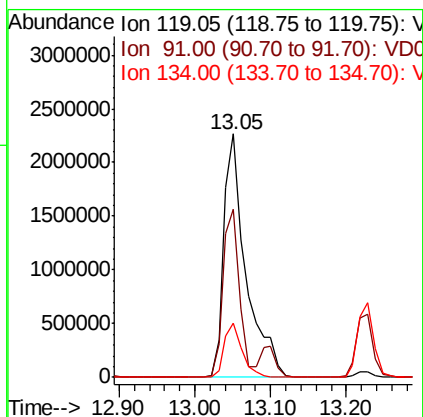
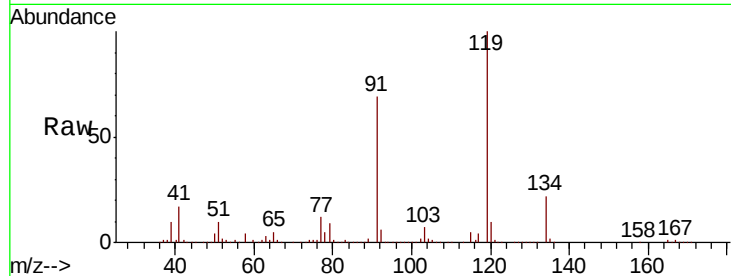
#83
 tert-Butylbenzene
 Concen: 81.801 ug/l
 RT: 13.05 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion:119 Resp: 4624541
 Ion Ratio Lower Upper
 119 100
 91 69.1 33.1 99.2
 134 22.3 12.0 36.0

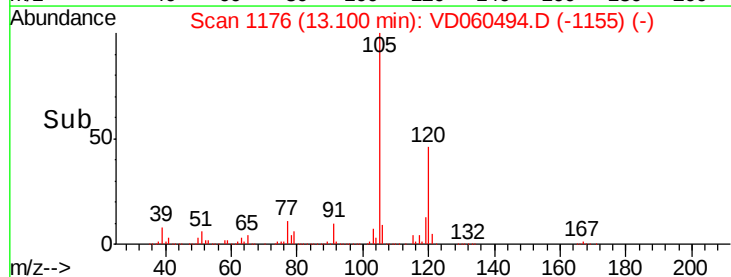
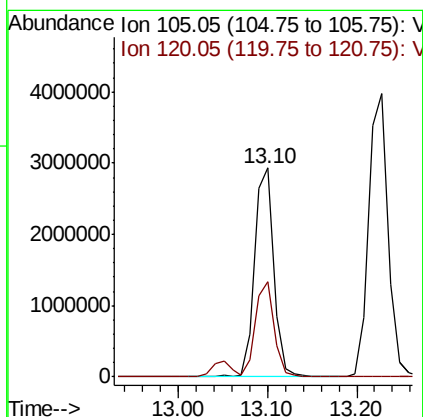
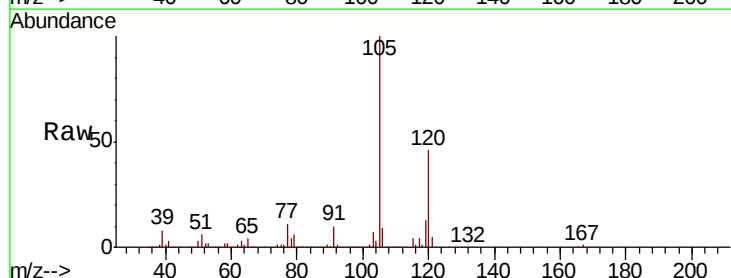
Manual Integrations
 APPROVED

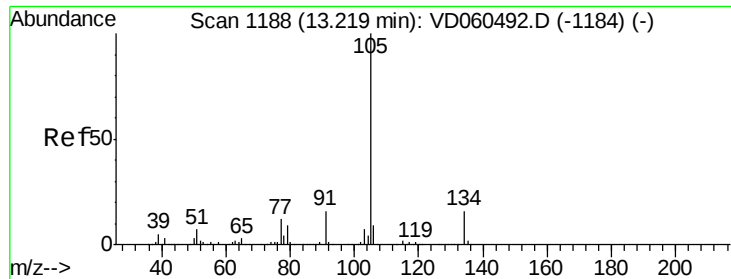
apatel
 12/6/2018 10:53:46 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 84.335 ug/l
 RT: 13.10 min Scan# 1176
 Delta R.T. 0.01 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion:105 Resp: 4290476
 Ion Ratio Lower Upper
 105 100
 120 45.7 22.3 66.8





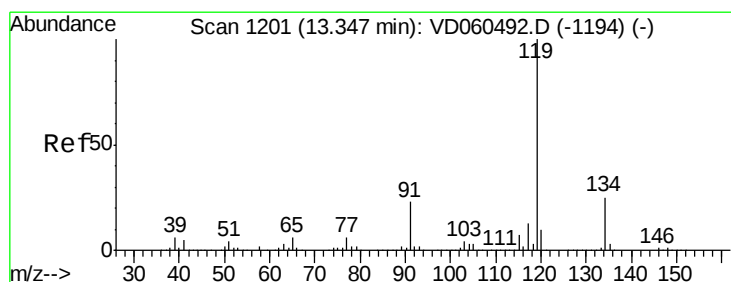
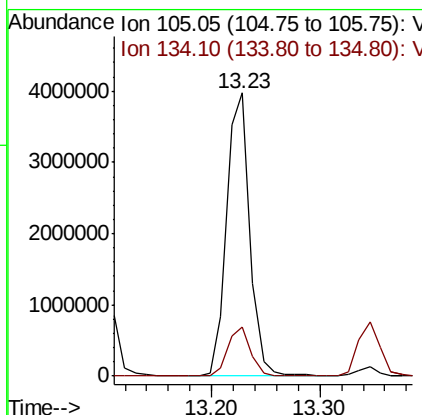
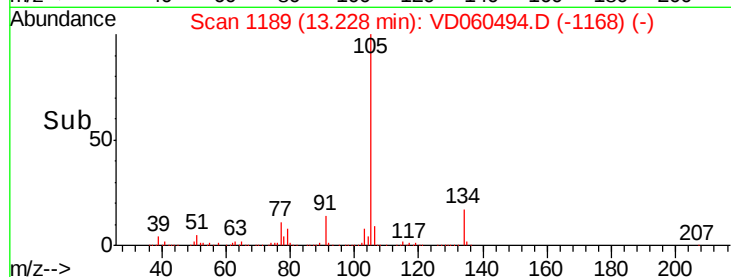
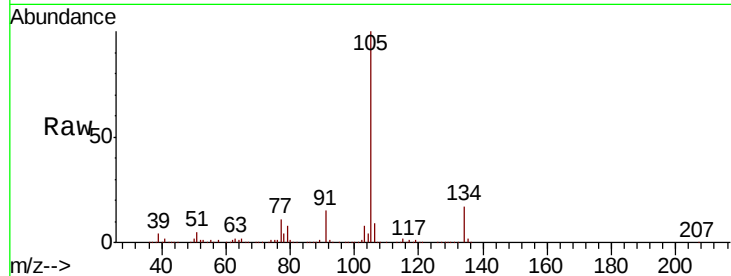
#85
 sec-Butylbenzene
 Concen: 85.199 ug/l
 RT: 13.23 min Scan# 1189
 Delta R.T. 0.01 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion:105 Resp: 5880903
 Ion Ratio Lower Upper
 105 100
 134 17.4 7.9 23.7

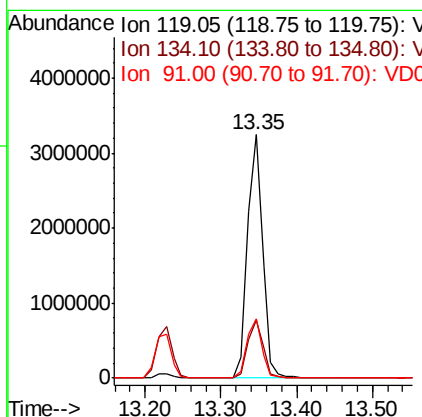
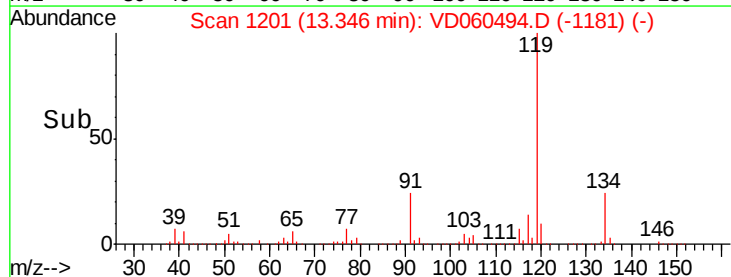
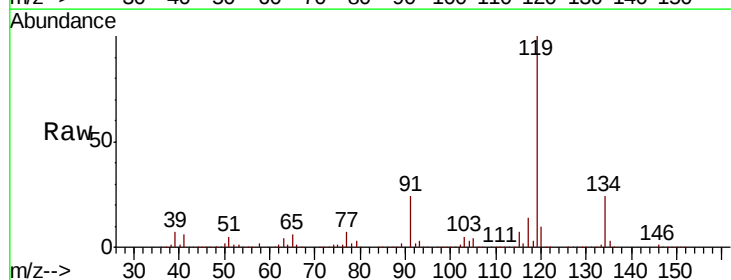
Manual Integrations
 APPROVED

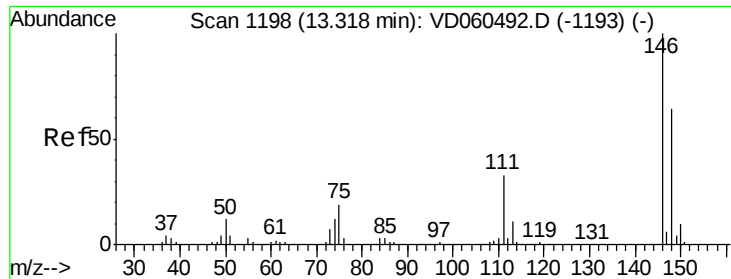
apatel
 12/6/2018 10:53:46 AM



#86
 p-Isopropyltoluene
 Concen: 80.693 ug/l
 RT: 13.35 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion:119 Resp: 4478587
 Ion Ratio Lower Upper
 119 100
 134 23.6 12.5 37.5
 91 24.4 11.5 34.4





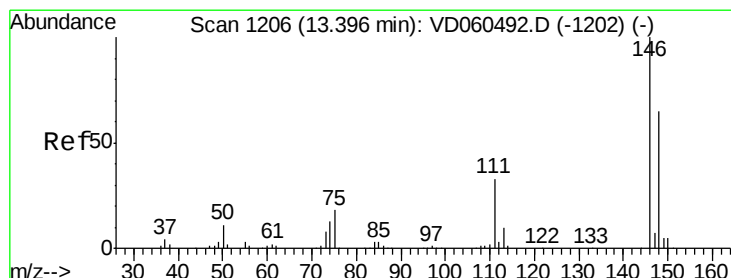
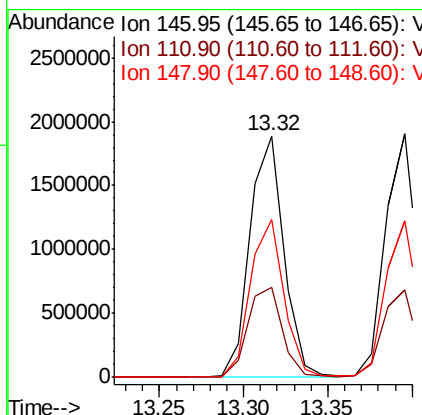
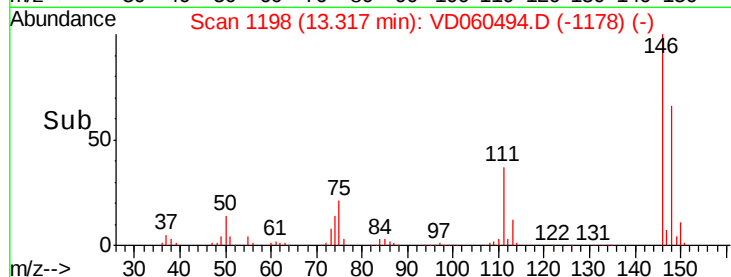
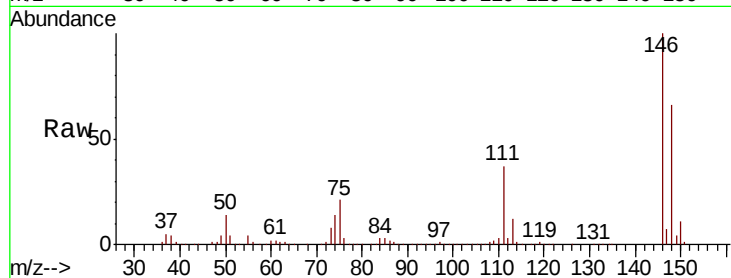
#87
 1,3-Dichlorobenzene
 Concen: 85.667 ug/l
 RT: 13.32 min Scan# 1198
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion:146 Resp: 2652335
 Ion Ratio Lower Upper
 146 100
 111 37.1 16.5 49.5
 148 65.5 32.3 96.8

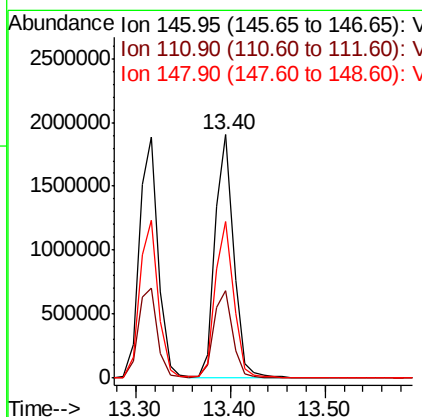
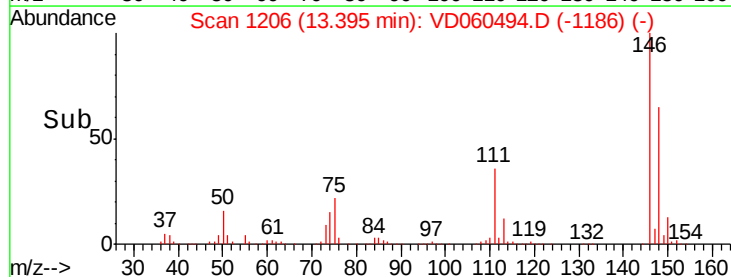
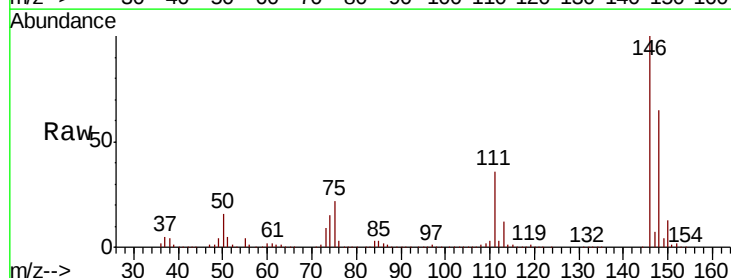
Manual Integrations
 APPROVED

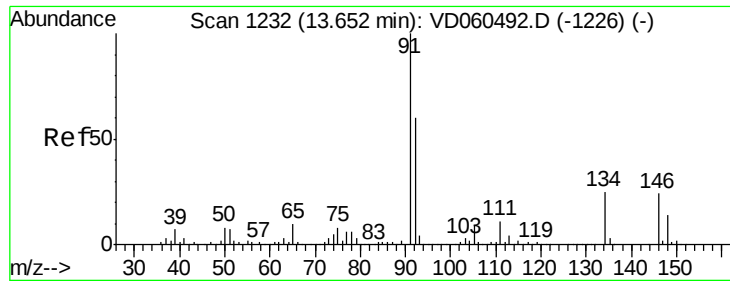
apatel
 12/6/2018 10:53:46 AM



#88
 1,4-Dichlorobenzene
 Concen: 86.276 ug/l
 RT: 13.40 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion:146 Resp: 2603669
 Ion Ratio Lower Upper
 146 100
 111 35.9 16.4 49.1
 148 64.5 32.6 98.0





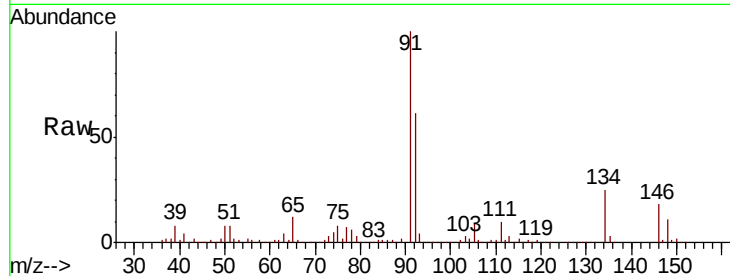
#89
n-Butylbenzene
Concen: 75.896 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

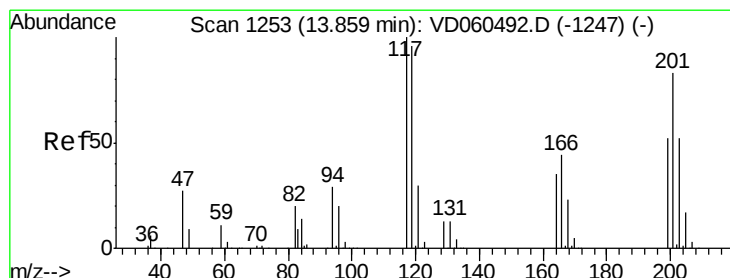
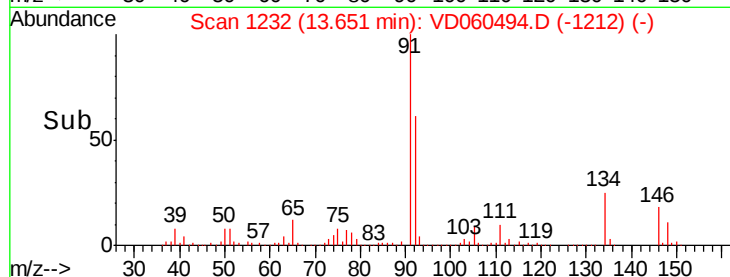
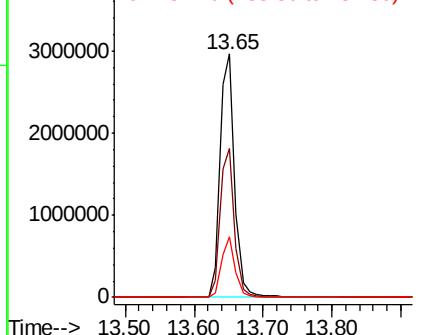
Tgt Ion: 91 Resp: 4310822
Ion Ratio Lower Upper
91 100
92 61.1 30.0 90.1
134 24.9 12.5 37.5

Manual Integrations
APPROVED

apatel
12/6/2018 10:53:46 AM

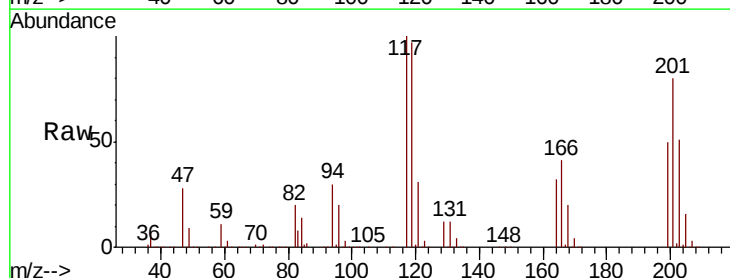


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

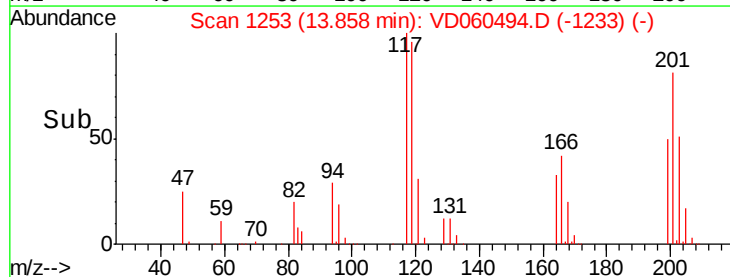
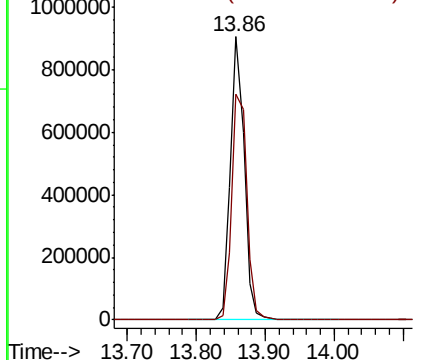


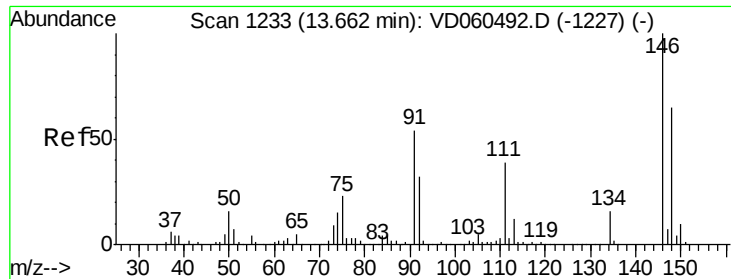
#90
Hexachloroethane
Concen: 94.558 ug/l
RT: 13.86 min Scan# 1253
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion: 117 Resp: 1262560
Ion Ratio Lower Upper
117 100
201 79.7 41.3 123.9



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





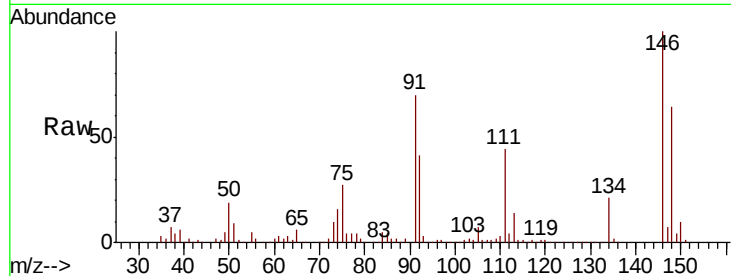
#91
 1,2-Dichlorobenzene
 Concen: 78.092 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

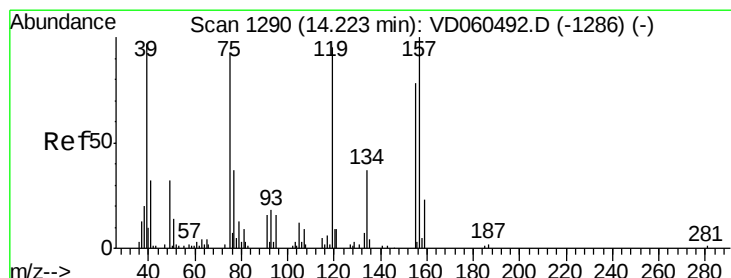
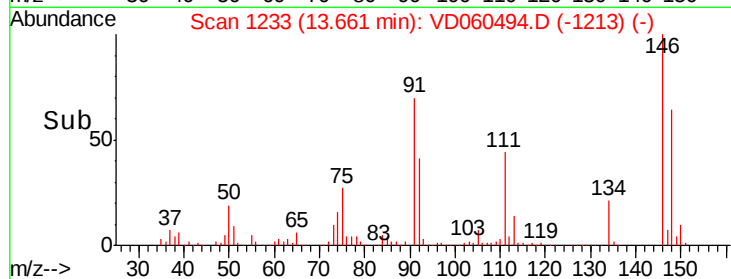
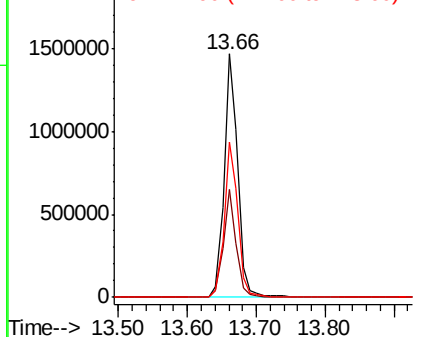
Tgt Ion: 146 Resp: 1981813
 Ion Ratio Lower Upper
 146 100
 111 44.2 19.3 57.8
 148 63.9 32.3 96.8

Manual Integrations
 APPROVED

apatel
 12/6/2018 10:53:46 AM

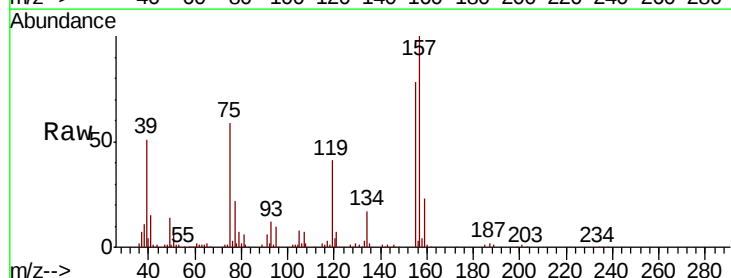


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

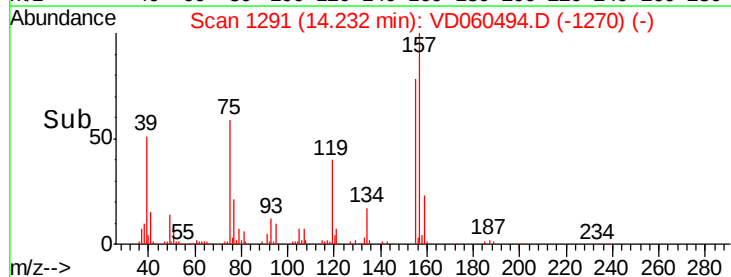
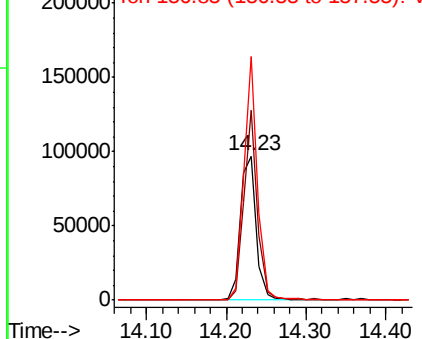


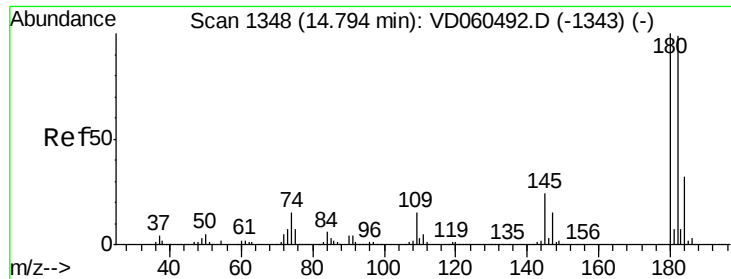
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 106.926 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion: 75 Resp: 137217
 Ion Ratio Lower Upper
 75 100
 155 132.1 41.6 124.9#
 157 169.2 53.6 160.8#



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V





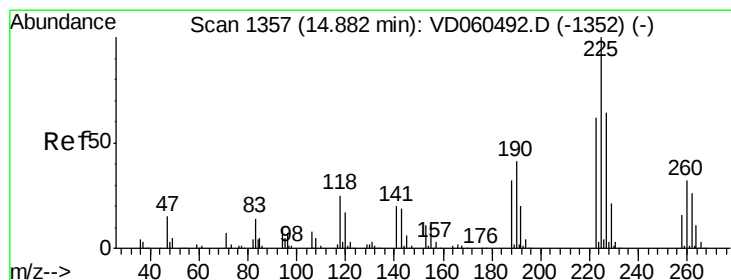
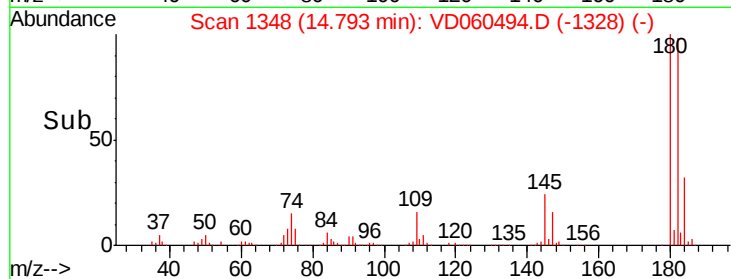
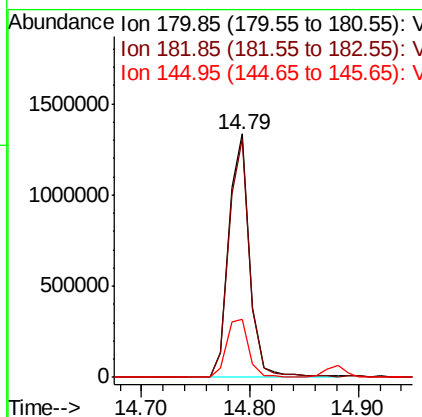
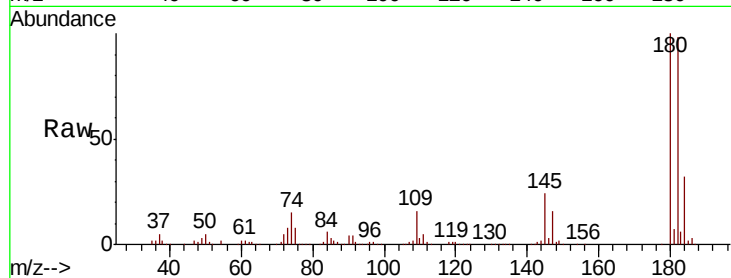
#93
 1,2,4-Trichlorobenzene
 Concen: 89.656 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tgt Ion:180 Resp: 1802293
 Ion Ratio Lower Upper
 180 100
 182 97.7 49.4 148.0
 145 24.0 11.9 35.9

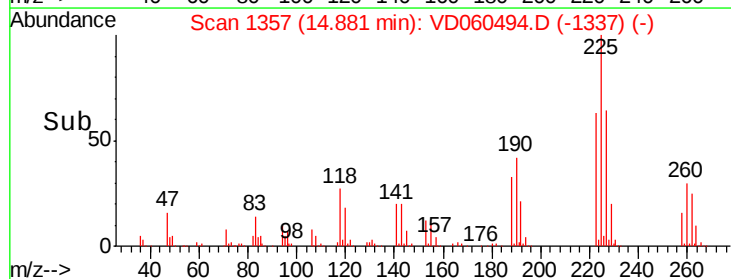
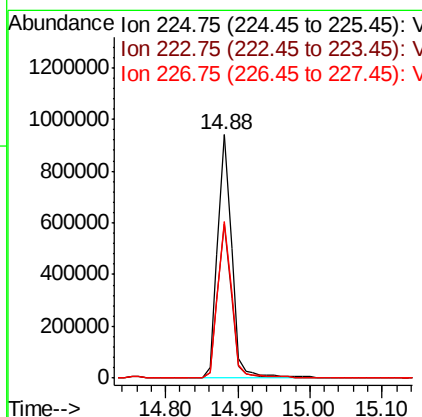
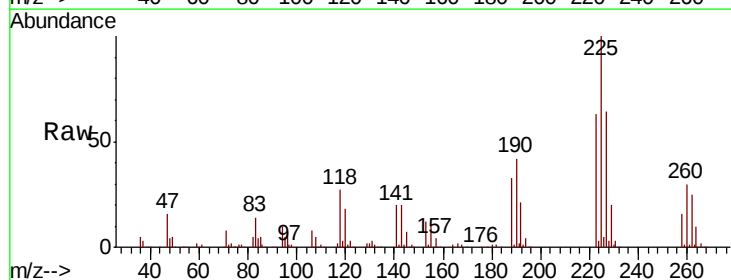
Manual Integrations
 APPROVED

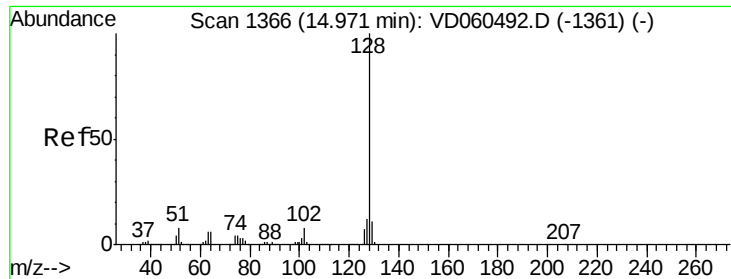
apatel
 12/6/2018 10:53:46 AM



#94
 Hexachlorobutadiene
 Concen: 85.041 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VD060494.D
 Acq: 5 Dec 2018 16:01

Tgt Ion:225 Resp: 1273362
 Ion Ratio Lower Upper
 225 100
 223 63.0 31.2 93.6
 227 64.5 32.0 96.0





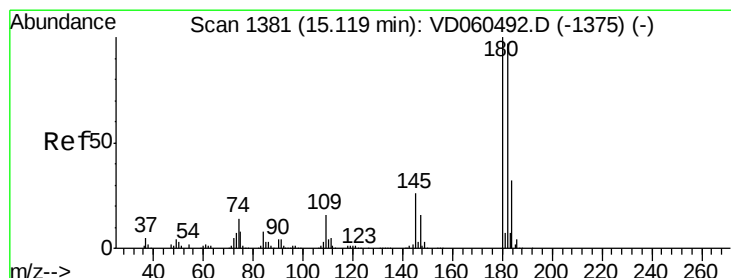
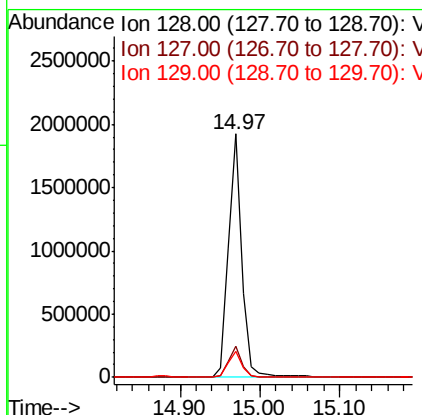
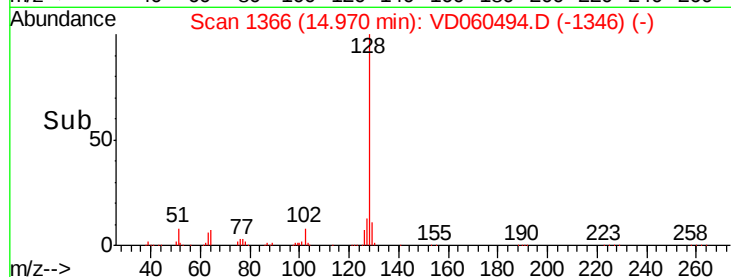
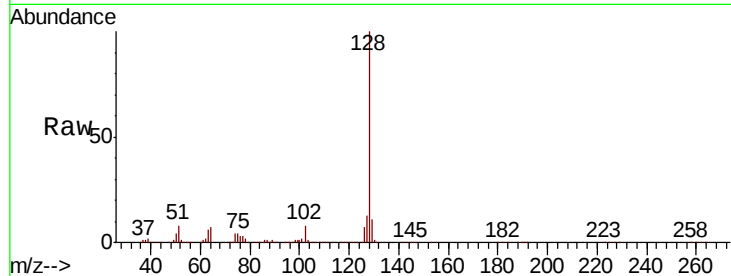
#95
Naphthalene
Concen: 93.840 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tgt Ion:128 Resp: 2315470
Ion Ratio Lower Upper
128 100
127 12.6 9.8 14.8
129 10.8 8.6 13.0

Manual Integrations
APPROVED

apatel
12/6/2018 10:53:46 AM



#96
1,2,3-Trichlorobenzene
Concen: 93.478 ug/l
RT: 15.12 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VD060494.D
Acq: 5 Dec 2018 16:01

Tgt Ion:180 Resp: 1501678
Ion Ratio Lower Upper
180 100
182 96.8 48.5 145.5
145 25.8 12.9 38.7

