

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059881.D
 Acq On : 23 Aug 2018 11:01
 Operator : JC/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

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 8/24/2018 3:08:57 PM

Quant Time: Aug 23 14:48:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1332463	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	1848367	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1537409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	799500	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	560848	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
35) Dibromofluoromethane	6.32	113	739134	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
50) Toluene-d8	9.45	98	2060658	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.43	95	807470	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	581133	48.79	ug/l	97
3) Chloromethane	1.76	50	551810	51.14	ug/l	99
4) Vinyl Chloride	1.85	62	456849	54.00	ug/l	99
5) Bromomethane	2.14	94	72125	49.38	ug/l	96
6) Chloroethane	2.25	64	130091	46.89	ug/l	96
7) Trichlorofluoromethane	2.51	101	518361	52.96	ug/l	98
8) Diethyl Ether	2.82	74	110601	50.37	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.09	101	318960	53.21	ug/l	99
10) Methyl Iodide	3.24	142	323496	50.61	ug/l	100
11) Tert butyl alcohol	3.96	59	202313	236.09	ug/l	99
12) 1,1-Dichloroethene	3.07	96	250195	53.62	ug/l	98
13) Acrolein	2.98	56	98955	266.25	ug/l	96
14) Allyl chloride	3.53	41	550674	52.16	ug/l	96
15) Acrylonitrile	4.08	53	760044	236.85	ug/l	100
16) Acetone	3.16	43	601946m	294.19	ug/l	
17) Carbon Disulfide	3.31	76	790004	54.54	ug/l	98
18) Methyl Acetate	3.55	43	209705	49.10	ug/l	97
19) Methyl tert-butyl Ether	4.12	73	1289108	48.83	ug/l	100
20) Methylene Chloride	3.72	84	666675	48.72	ug/l	99
21) trans-1,2-Dichloroethene	4.09	96	632160	49.17	ug/l	98
22) Diisopropyl ether	4.85	45	2674168	49.67	ug/l	96
23) Vinyl Acetate	4.80	43	7390959	245.57	ug/l	99
24) 1,1-Dichloroethane	4.75	63	1162653	49.99	ug/l	99
25) 2-Butanone	5.62	43	1566261	258.46	ug/l	99
26) 2,2-Dichloropropane	5.59	77	970465	49.91	ug/l	98
27) cis-1,2-Dichloroethene	5.59	96	704000	50.01	ug/l	99
28) Bromochloromethane	5.92	49	575969	51.67	ug/l	99
29) Tetrahydrofuran	5.95	42	708745	245.67	ug/l	99
30) Chloroform	6.10	83	1202618	50.88	ug/l	98
31) Cyclohexane	6.36	56	1024862	47.93	ug/l	99
32) 1,1,1-Trichloroethane	6.28	97	1006351	50.16	ug/l	99
36) 1,1-Dichloropropene	6.52	75	838590	50.05	ug/l	98
37) Ethyl Acetate	5.69	43	631151	48.41	ug/l	97
38) Carbon Tetrachloride	6.50	117	839941	49.67	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	916202	50.61	ug/l	100
40) Benzene	6.79	78	2159944	49.58	ug/l	100
41) Methacrylonitrile	5.92	41	333487m	50.78	ug/l	
42) 1,2-Dichloroethane	6.89	62	710819	50.82	ug/l	99
43) Isopropyl Acetate	8.35	43	828784	48.86	ug/l	100
44) Trichloroethene	7.74	130	647030	50.44	ug/l	97
45) 1,2-Dichloropropane	8.11	63	601292	49.38	ug/l	99
46) Dibromomethane	8.21	93	389542	49.75	ug/l	98
47) Bromodichloromethane	8.49	83	896163	50.56	ug/l	99
48) Methyl methacrylate	8.24	41	481409	48.69	ug/l	100
49) 1,4-Dioxane	8.22	88	83866	950.01	ug/l	94
51) 4-Methyl-2-Pentanone	9.34	43	3294522	260.52	ug/l	99
52) Toluene	9.55	92	1421859	50.90	ug/l	98
53) t-1,3-Dichloropropene	9.92	75	830994	50.68	ug/l	99
54) cis-1,3-Dichloropropene	9.10	75	947172	49.83	ug/l	98
55) 1,1,2-Trichloroethane	10.18	97	452265	44.29	ug/l	98
56) Ethyl methacrylate	10.03	69	572550	48.58	ug/l	99
57) 1,3-Dichloropropane	10.38	76	724487	49.02	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	1399930	247.61	ug/l	97
59) 2-Hexanone	10.49	43	2385043	255.70	ug/l	99
60) Dibromochloromethane	10.64	129	640570	49.91	ug/l	97
61) 1,2-Dibromoethane	10.76	107	501660	48.58	ug/l	100
64) Tetrachloroethene	10.25	164	592764	49.86	ug/l	99
65) Chlorobenzene	11.31	112	1540740	50.43	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.42	131	558069	50.00	ug/l	99
67) Ethyl Benzene	11.43	91	2609224	50.77	ug/l	99
68) m/p-Xylenes	11.57	106	1901257	101.60	ug/l	98
69) o-Xylene	11.93	106	932953	50.97	ug/l	98
70) Styrene	11.95	104	1607374	50.72	ug/l	98
71) Bromoform	12.11	173	484167	50.13	ug/l	99
73) Isopropylbenzene	12.28	105	2569648	50.35	ug/l	99
74) N-amyl acetate	12.13	43	1086751	48.63	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	569343	48.23	ug/l	100
76) 1,2,3-Trichloropropane	12.59	75	604153	48.62	ug/l	97
77) Bromobenzene	12.54	156	714778	50.51	ug/l	85
78) n-propylbenzene	12.63	91	3218418	49.80	ug/l	97
79) 2-Chlorotoluene	12.70	91	1865760	51.05	ug/l	98
80) 1,3,5-Trimethylbenzene	12.79	105	1960297	48.31	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.34	75	186440	48.23	ug/l	97
82) 4-Chlorotoluene	12.81	91	1990966	47.76	ug/l	97
83) tert-Butylbenzene	13.05	119	2286250	49.46	ug/l	97
84) 1,2,4-Trimethylbenzene	13.09	105	2083771	49.27	ug/l	98
85) sec-Butylbenzene	13.22	105	2710793	49.87	ug/l	98
86) p-Isopropyltoluene	13.34	119	2203549	49.85	ug/l	98
87) 1,3-Dichlorobenzene	13.31	146	1243858	49.24	ug/l	99
88) 1,4-Dichlorobenzene	13.39	146	1233469	48.94	ug/l	98
89) n-Butylbenzene	13.65	91	2199030	52.75	ug/l	99
90) Hexachloroethane	13.85	117	586540	49.41	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	1039023	48.37	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.23	75	89547	49.34	ug/l	88

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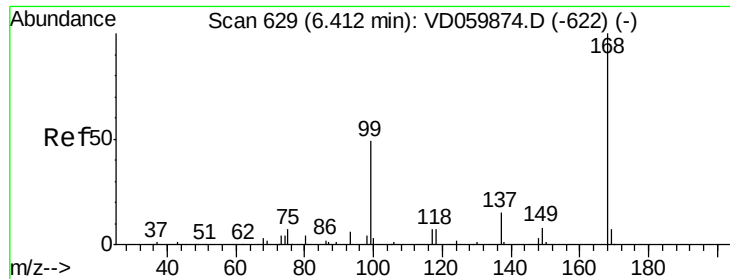
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	893342	48.57	ug/l	99
94) Hexachlorobutadiene	14.88	225	621717	51.57	ug/l	99
95) Naphthalene	14.96	128	1385551	49.30	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	757945	48.19	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.40 min Scan# 628

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1332463

Ion Ratio Lower Upper

168 100

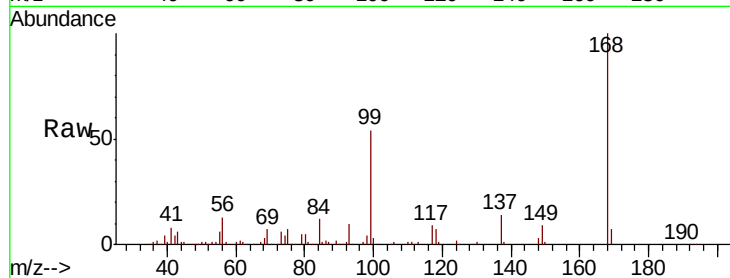
99 53.7 42.2 63.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

500000

400000

300000

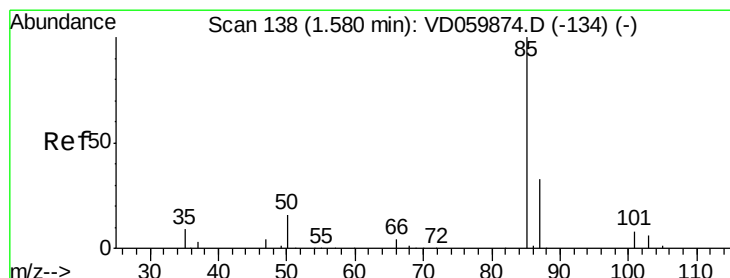
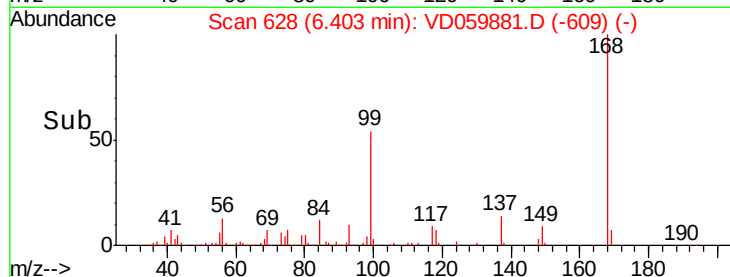
200000

100000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: 48.79 ug/l

RT: 1.58 min Scan# 138

Delta R.T. 0.00 min

Lab File: VD059881.D

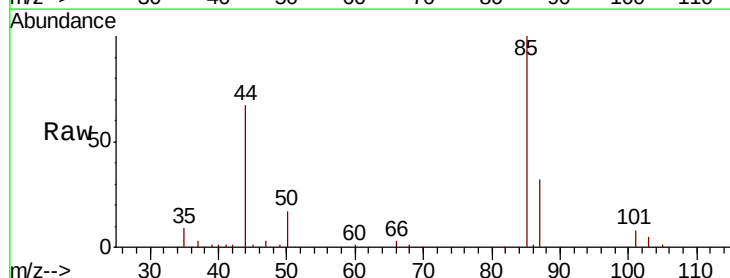
Acq: 23 Aug 2018 11:01

Tgt Ion: 85 Resp: 581133

Ion Ratio Lower Upper

85 100

87 31.9 16.8 50.3



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

200000

150000

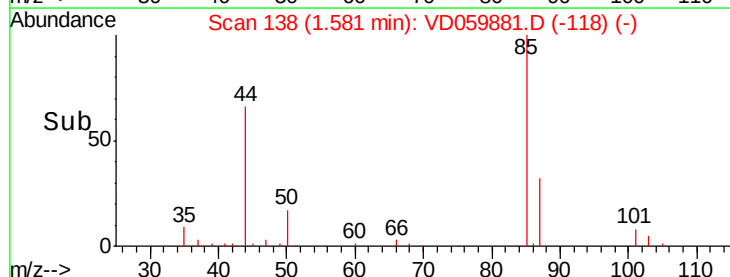
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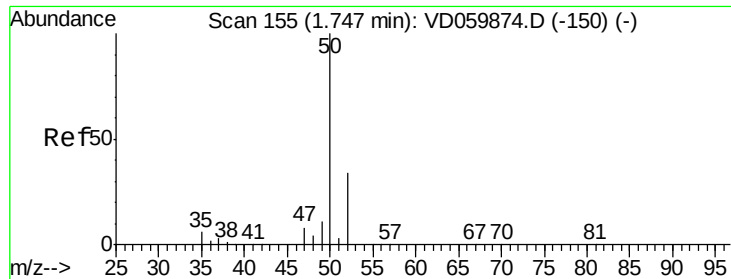
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 51.14 ug/l

RT: 1.76 min Scan# 156

Delta R.T. 0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 551810

Ion Ratio Lower Upper

50 100

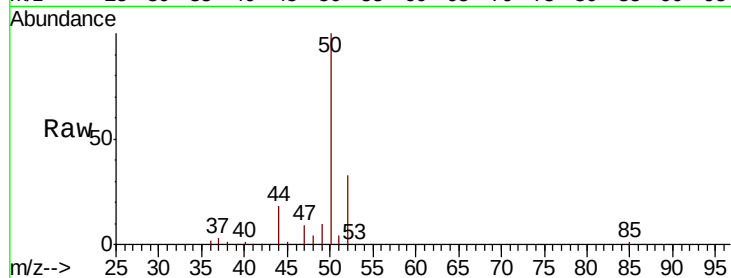
52 33.3 27.0 40.6

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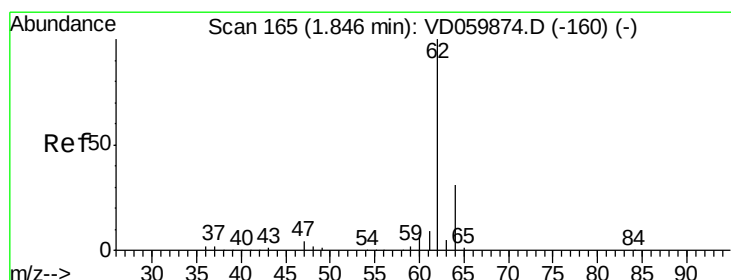
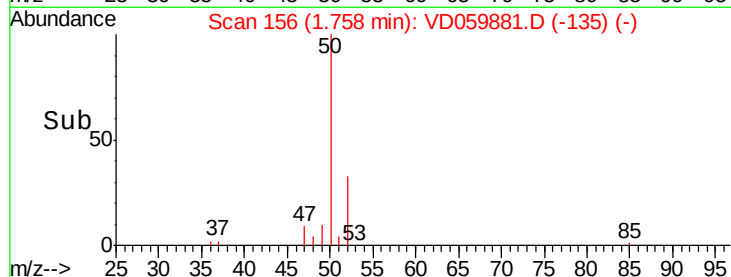
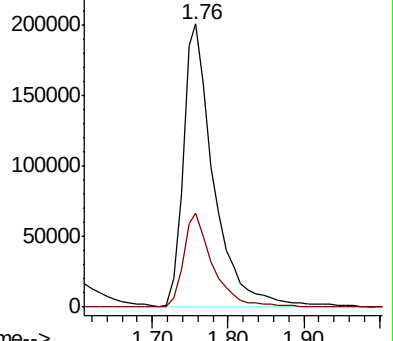
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 54.00 ug/l

RT: 1.85 min Scan# 165

Delta R.T. 0.00 min

Lab File: VD059881.D

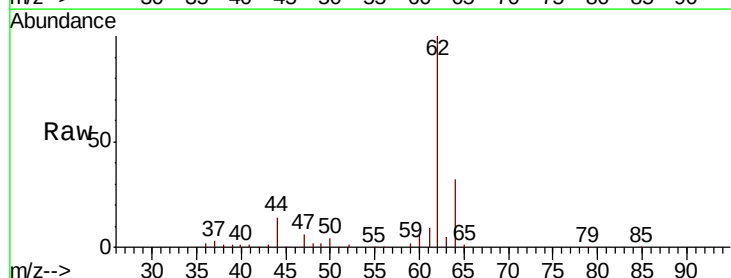
Acq: 23 Aug 2018 11:01

Tgt Ion: 62 Resp: 456849

Ion Ratio Lower Upper

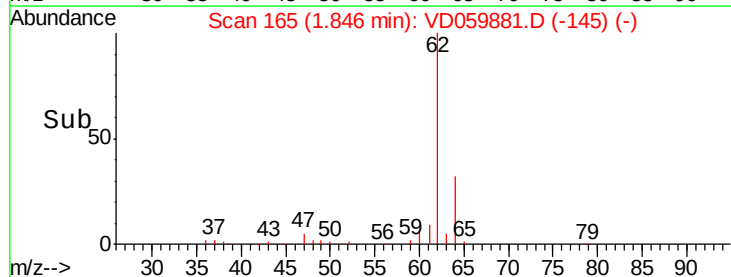
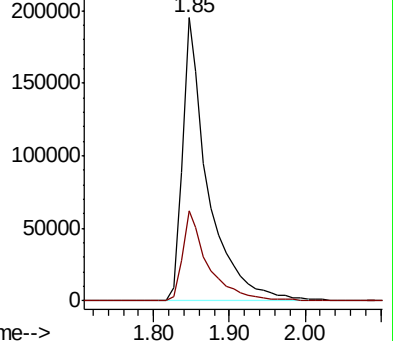
62 100

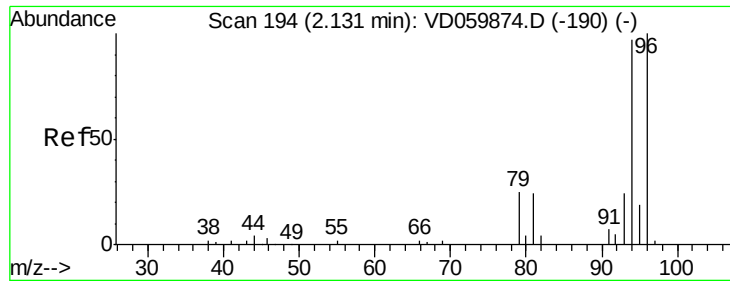
64 31.8 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 49.38 ug/l

RT: 2.14 min Scan# 195

Delta R.T. 0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tot Ion: 94 Resp: 72125

Ion Ratio Lower Upper

94 100

96 99.3 82.4 123.6

Instrument :

MSVOA_D

ClientSampleId :

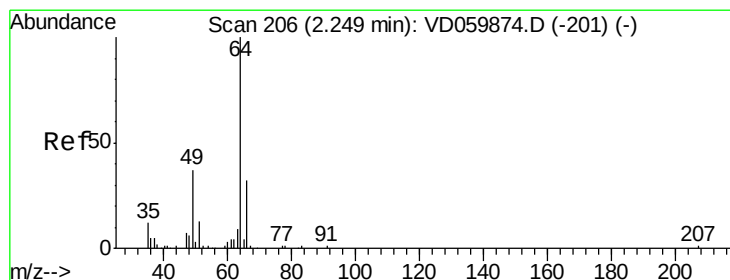
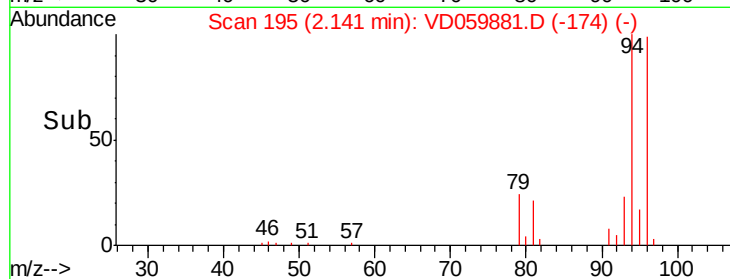
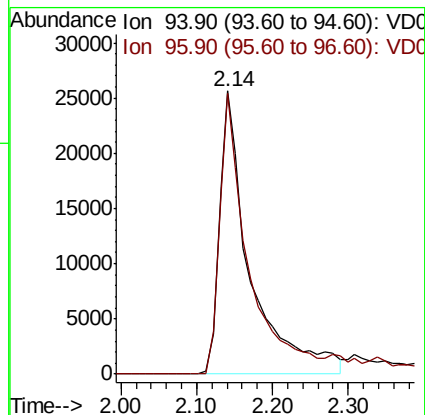
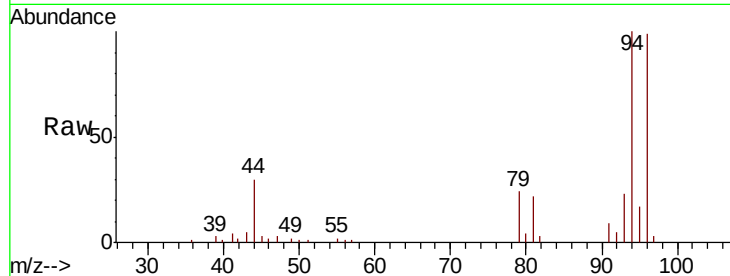
VSTDCCC050

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#6

Chloroethane

Concen: 46.89 ug/l

RT: 2.25 min Scan# 206

Delta R.T. 0.00 min

Lab File: VD059881.D

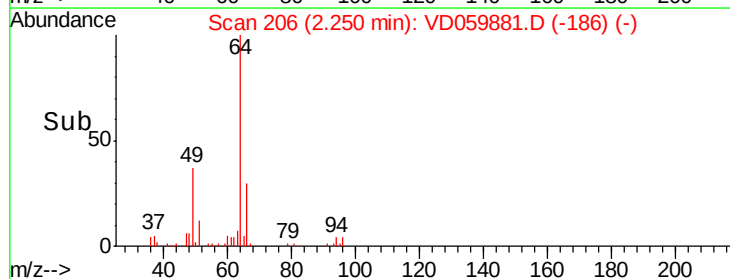
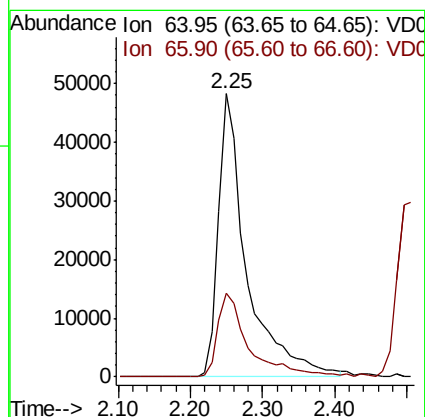
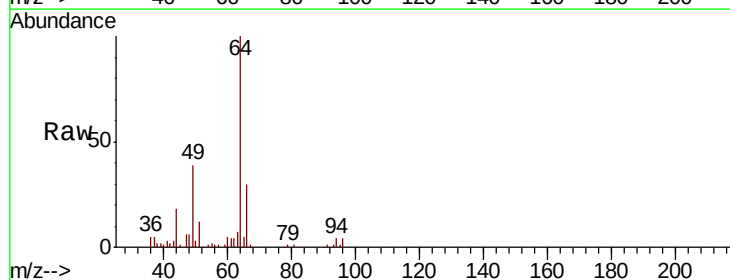
Acq: 23 Aug 2018 11:01

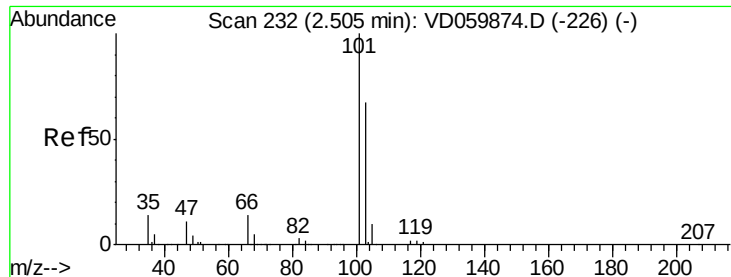
Tgt Ion: 64 Resp: 130091

Ion Ratio Lower Upper

64 100

66 29.6 25.3 37.9





#7

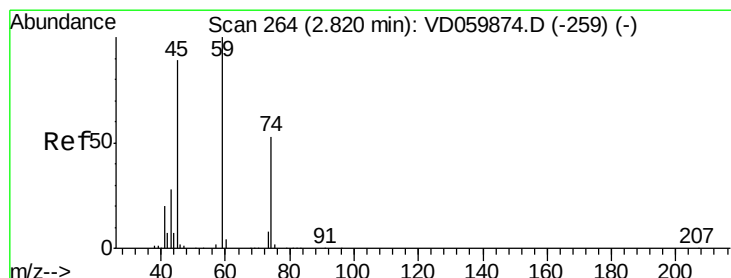
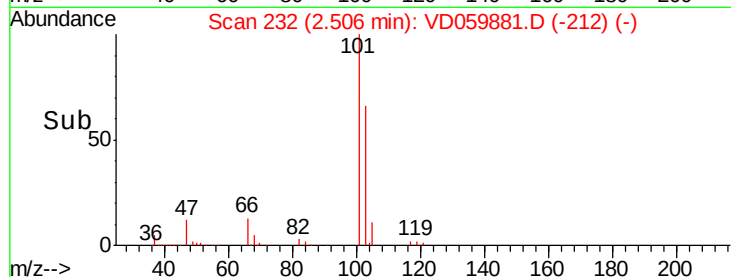
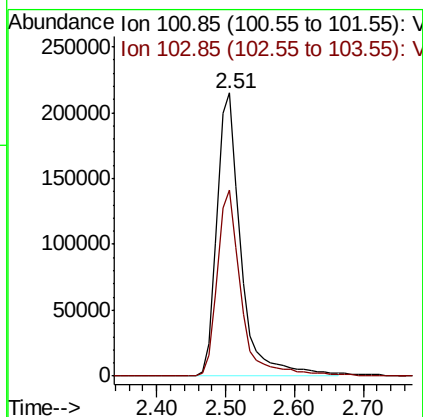
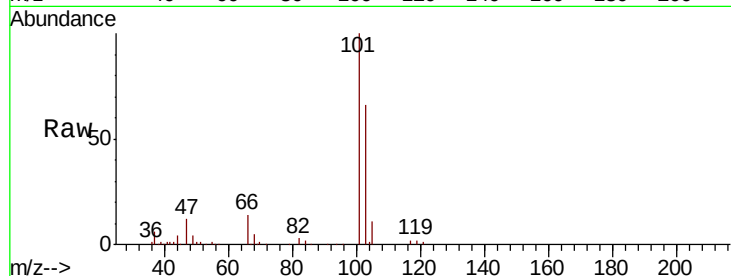
Trichlorofluoromethane
 Concen: 52.96 ug/l
 RT: 2.51 min Scan# 232
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	518361		
103	65.7	53.7	80.5	

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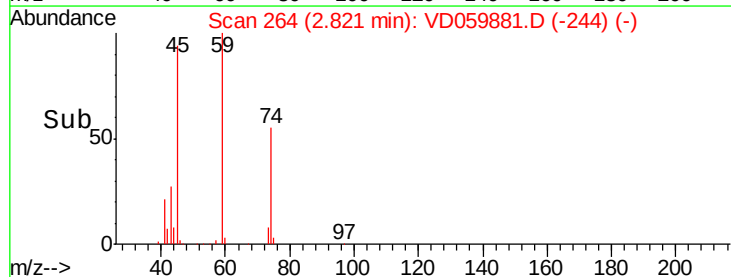
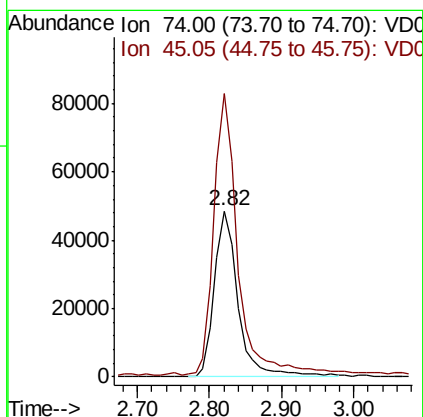
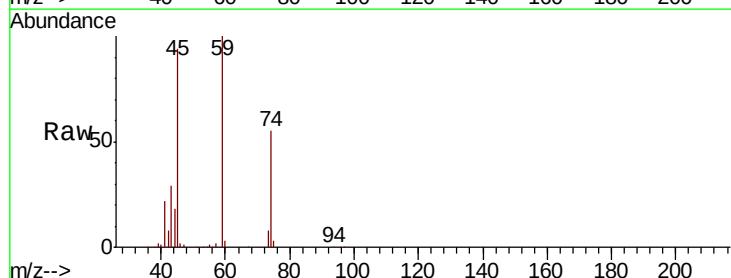
MMDadoda
 8/24/2018 3:08:57 PM

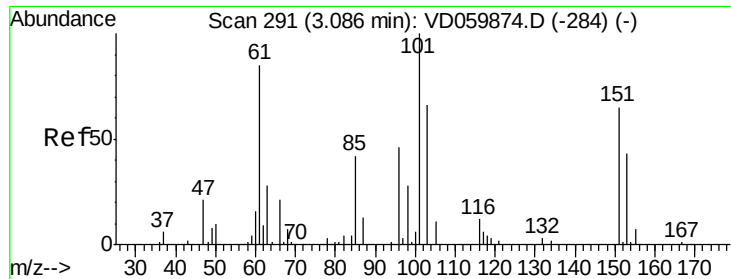


#8

Diethyl Ether
 Concen: 50.37 ug/l
 RT: 2.82 min Scan# 264
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	110601		
45	170.3	85.7	257.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.21 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

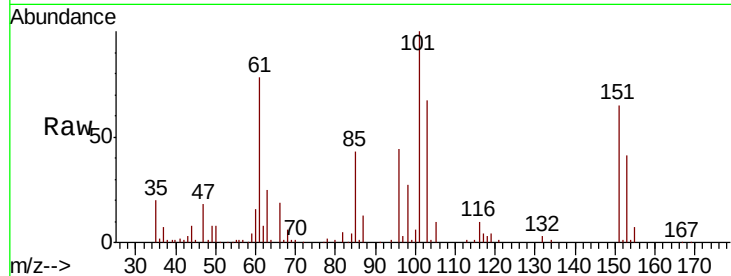
ClientSampleId :

VSTDCCC050

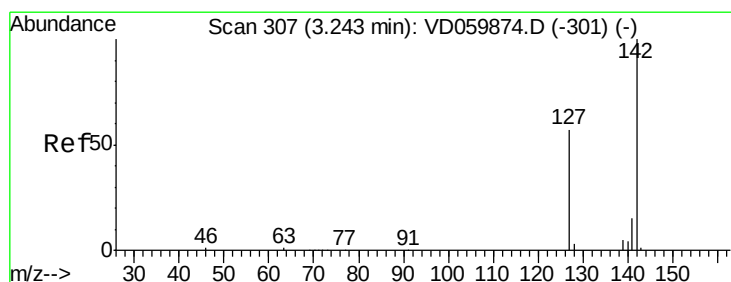
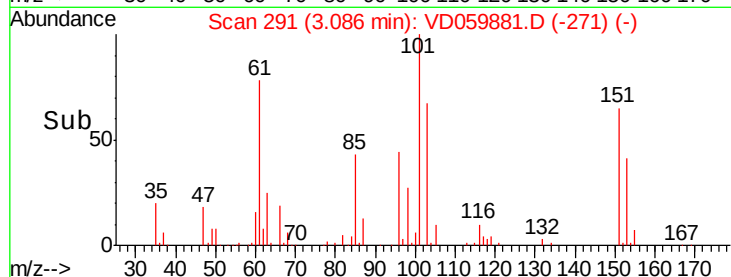
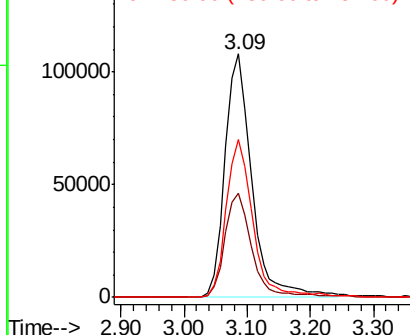
Tot Ion:	101	Resp:	318960
Ion Ratio	Lower	Upper	
101	100		
85	42.9	33.6	50.4
151	64.8	52.0	78.0

Manual Integrations
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Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 50.61 ug/l

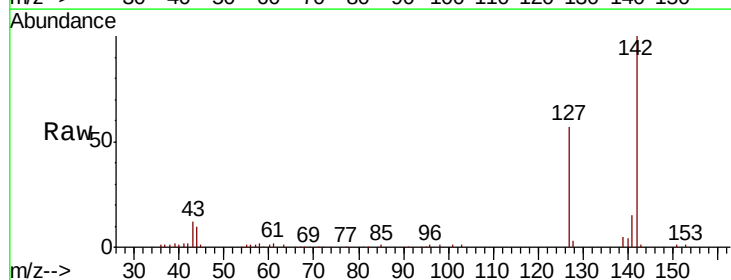
RT: 3.24 min Scan# 307

Delta R.T. 0.00 min

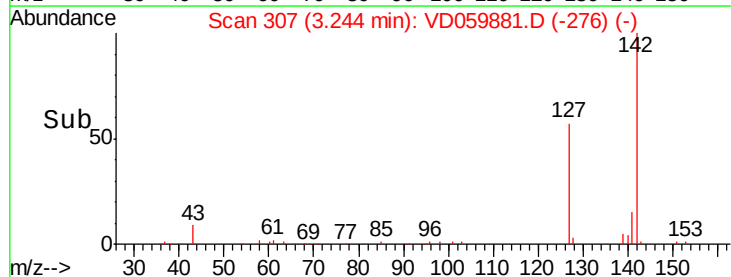
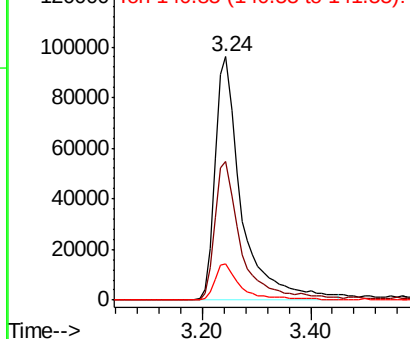
Lab File: VD059881.D

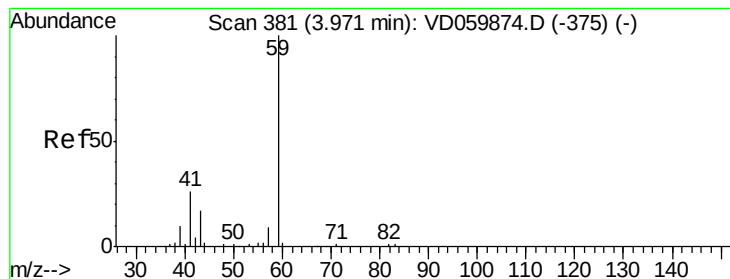
Acq: 23 Aug 2018 11:01

Tgt Ion:	142	Resp:	323496
Ion Ratio	Lower	Upper	
142	100		
127	57.1	45.8	68.6
141	15.1	11.6	17.4



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

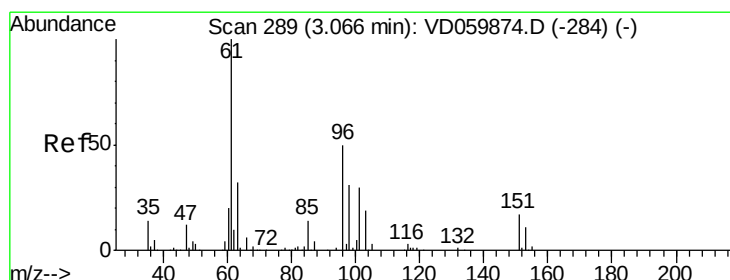
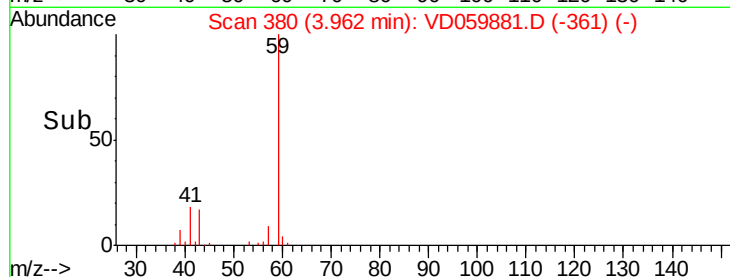
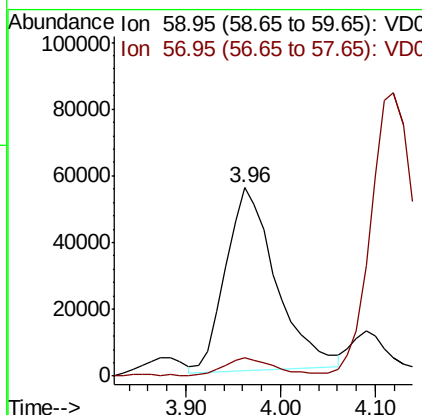
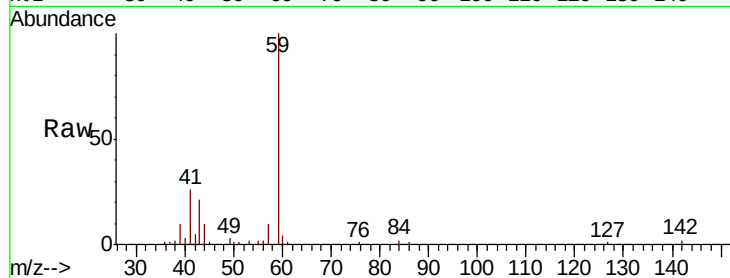
Tert butyl alcohol
 Concen: 236.09 ug/l
 RT: 3.96 min Scan# 380
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.4	11.0

Manual Integrations
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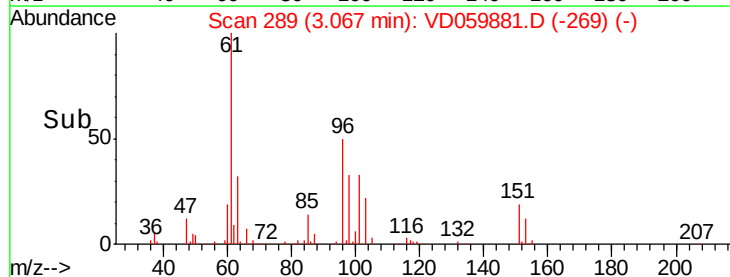
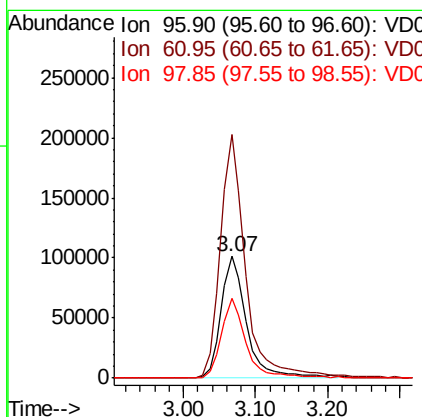
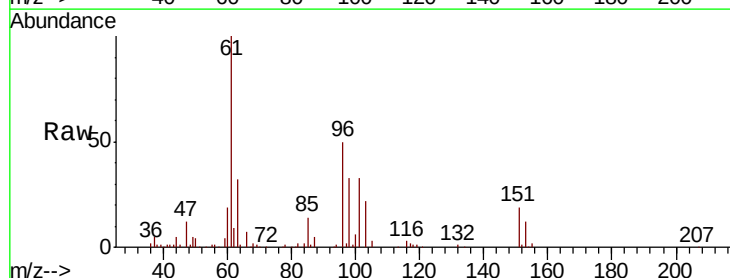
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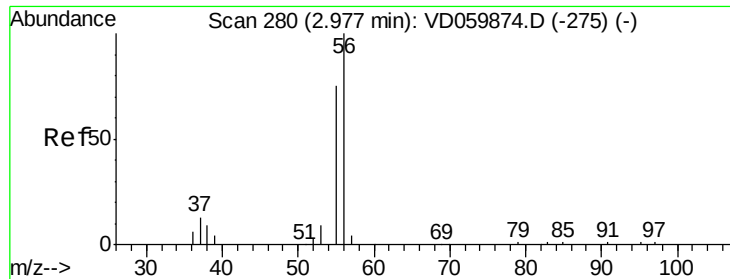


#12

1,1-Dichloroethene
 Concen: 53.62 ug/l
 RT: 3.07 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	199.7	158.8	238.2
98	65.1	48.7	73.1





#13

Acrolein

Concen: 266.25 ug/l

RT: 2.98 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 98955

Ion Ratio Lower Upper

56 100

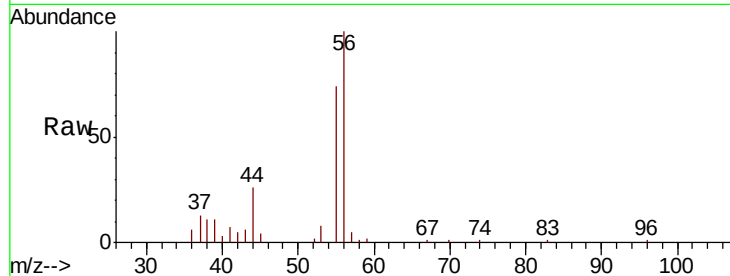
55 74.2 61.9 92.9

Manual Integrations

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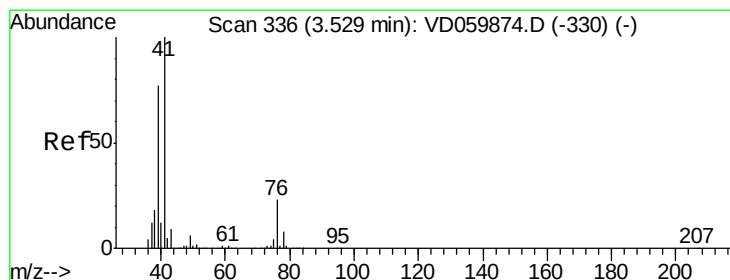
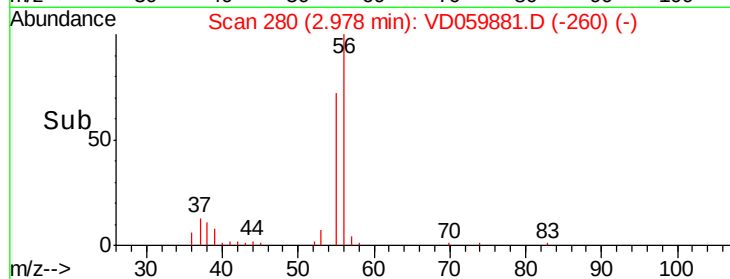
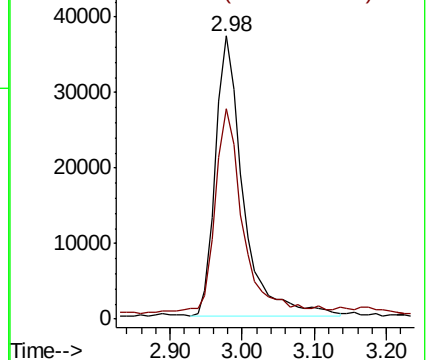
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 52.16 ug/l

RT: 3.53 min Scan# 336

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

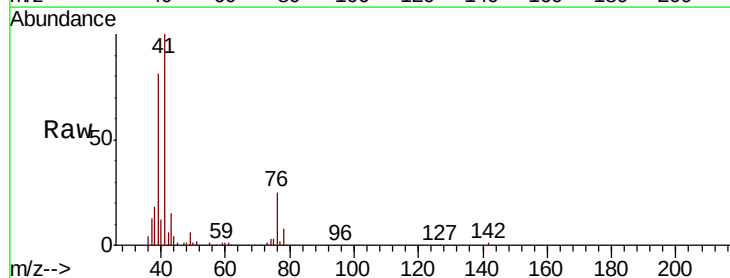
Tgt Ion: 41 Resp: 550674

Ion Ratio Lower Upper

41 100

39 80.9 61.8 92.6

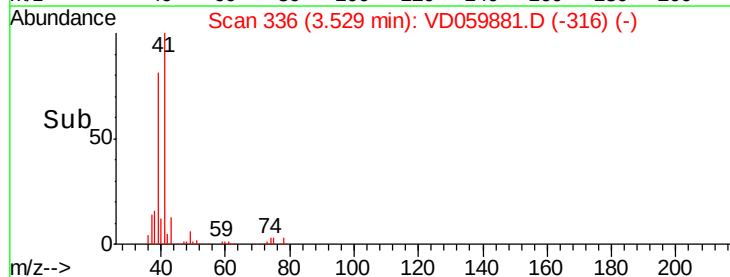
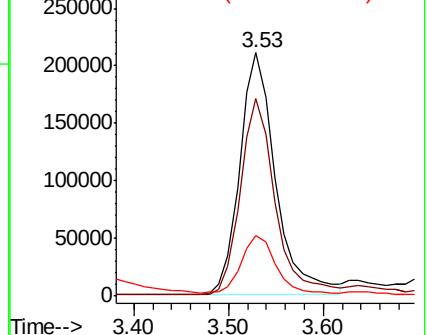
76 25.1 19.4 29.2

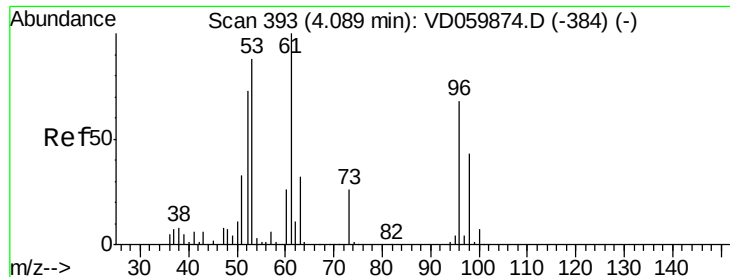


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 236.85 ug/l

RT: 4.08 min Scan# 392

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

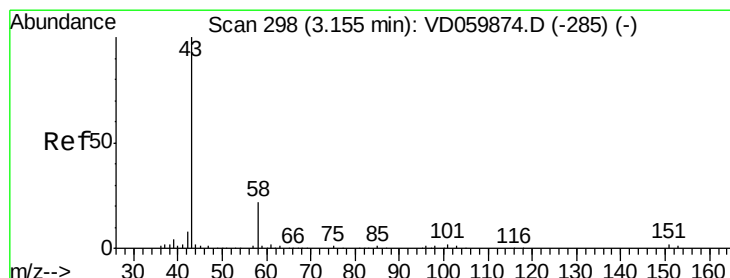
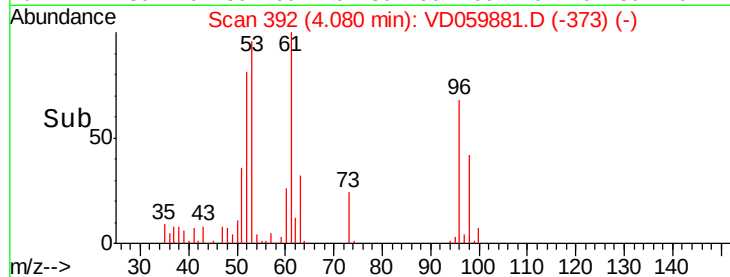
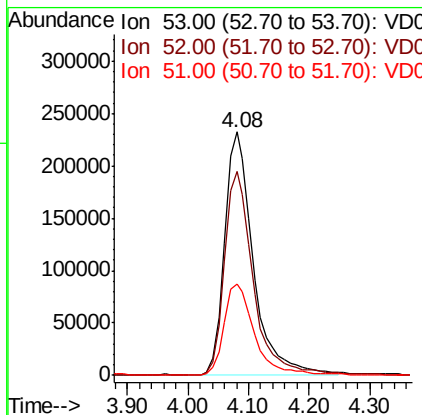
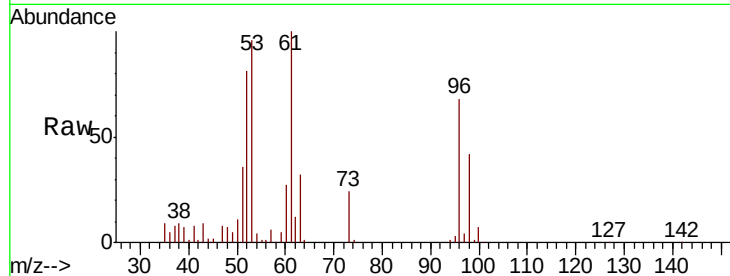
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	760044
Ion Ratio	Lower	Upper	
53	100		
52	83.6	66.9	100.3
51	37.6	30.3	45.5

Manual Integrations
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#16

Acetone

Concen: 294.19 ug/l m

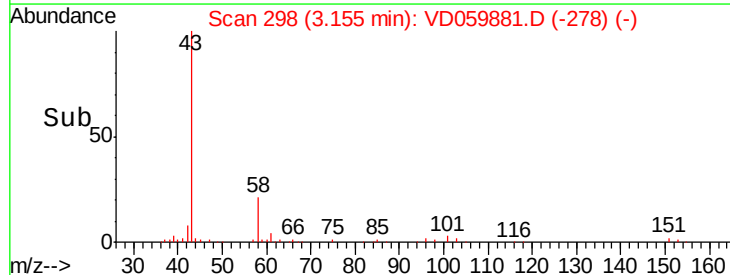
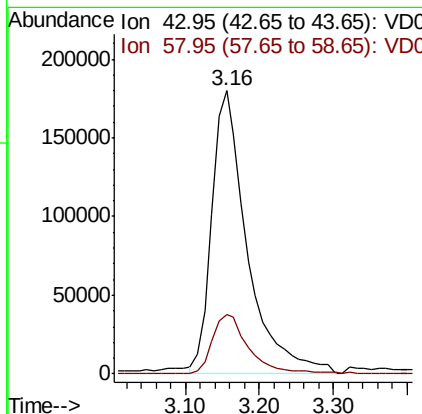
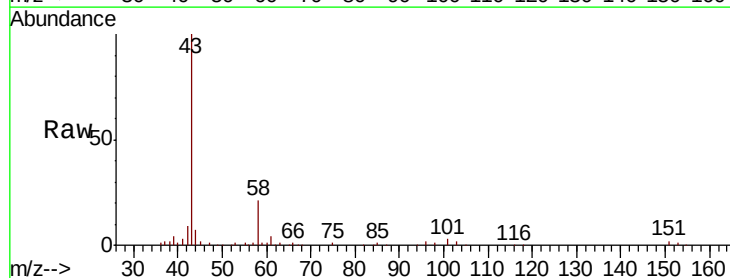
RT: 3.16 min Scan# 298

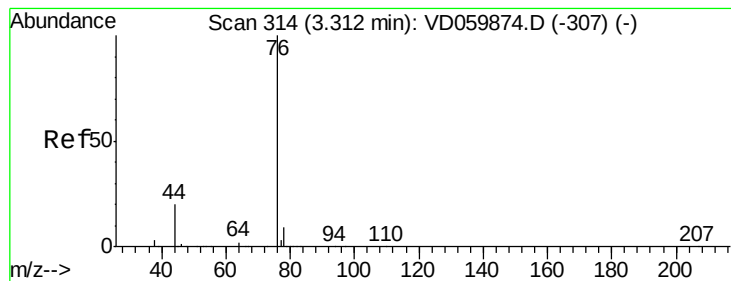
Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion:	43	Resp:	601946
Ion Ratio	Lower	Upper	
43	100		
58	21.1	17.6	26.4





#17

Carbon Disulfide

Concen: 54.54 ug/l

RT: 3.31 min Scan# 314

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 790004

Ion Ratio Lower Upper

76 100

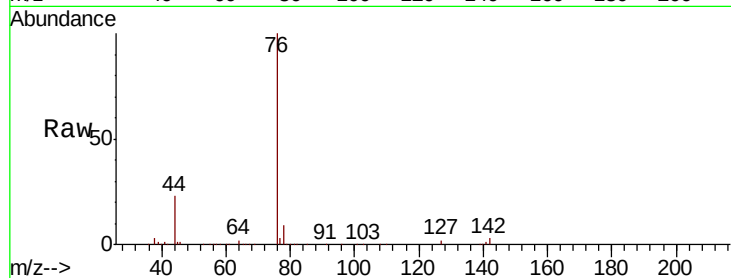
78 8.7 7.4 11.2

Manual Integrations

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.31

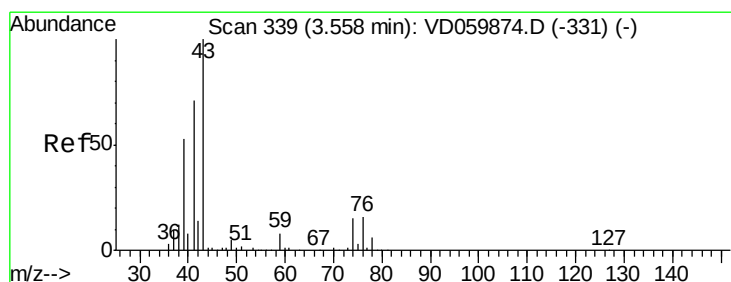
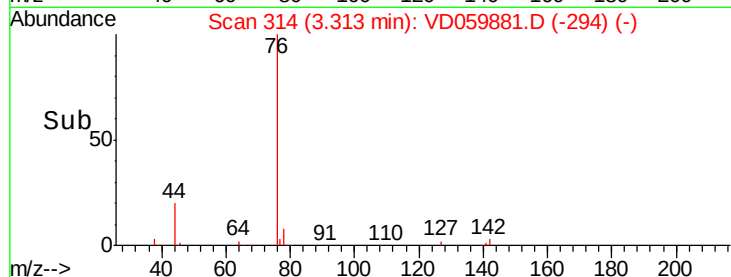
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 49.10 ug/l

RT: 3.55 min Scan# 338

Delta R.T. -0.01 min

Lab File: VD059881.D

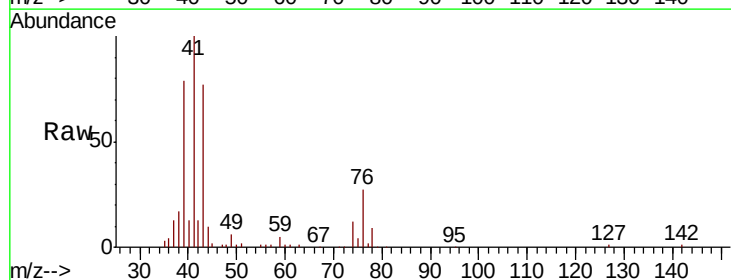
Acq: 23 Aug 2018 11:01

Tgt Ion: 43 Resp: 209705

Ion Ratio Lower Upper

43 100

74 15.0 11.2 16.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.55

80000

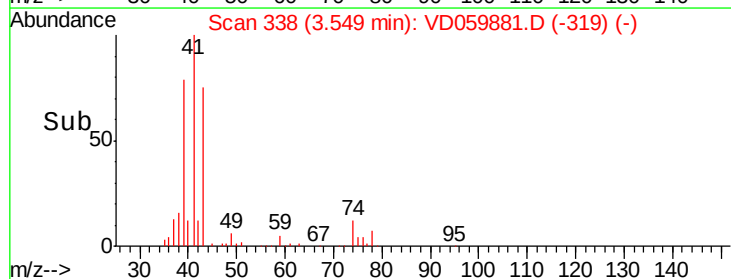
60000

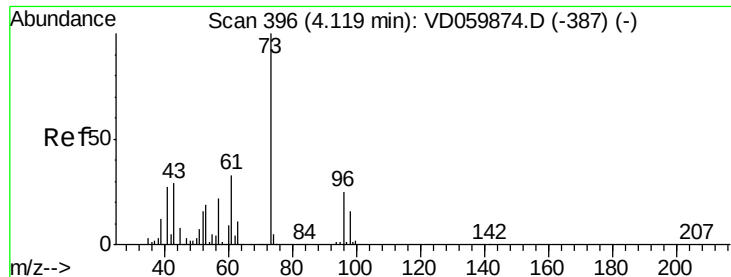
40000

20000

0

Time-->





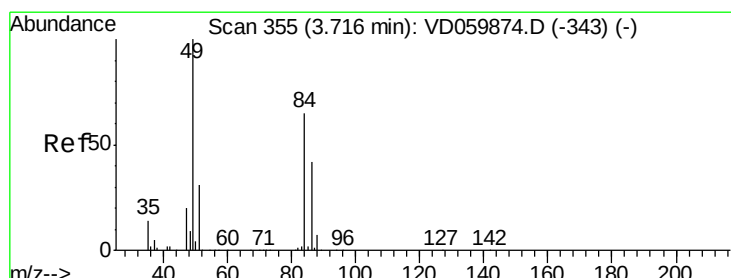
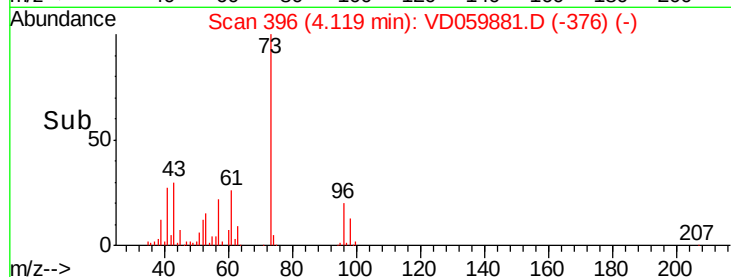
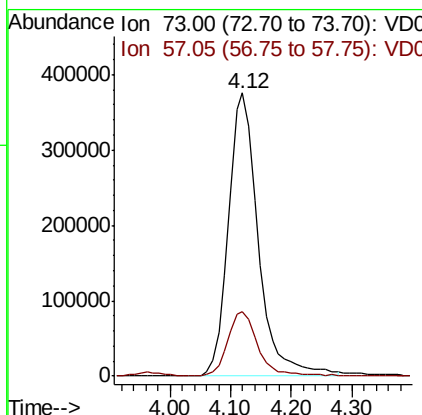
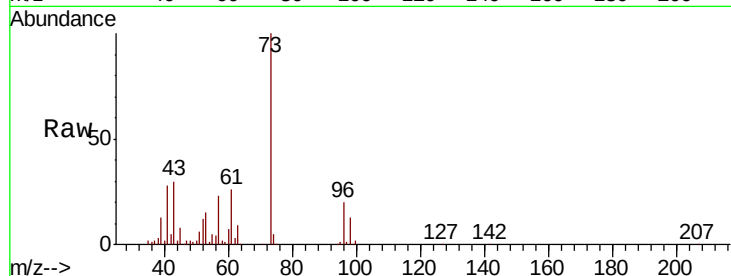
#19
Methyl tert-butyl Ether
Concen: 48.83 ug/l
RT: 4.12 min Scan# 396
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1289108
Ion Ratio Lower Upper
73 100
57 22.6 17.9 26.9

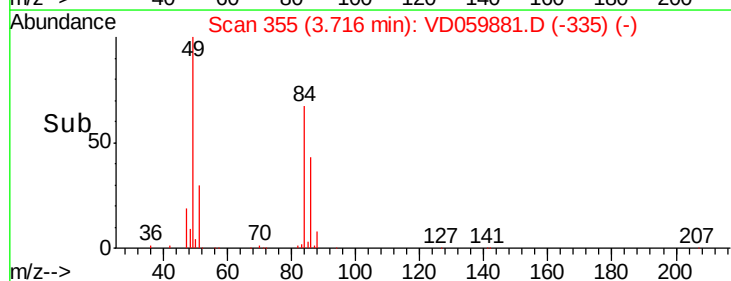
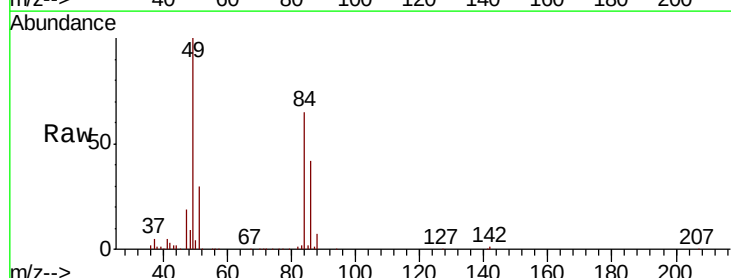
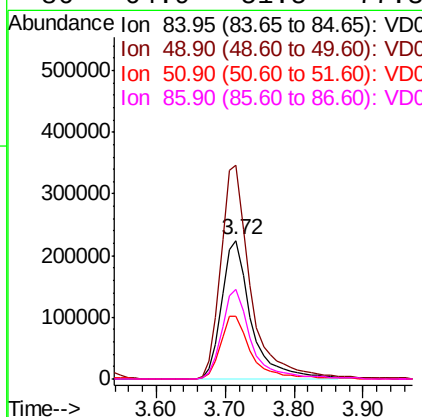
Manual Integrations
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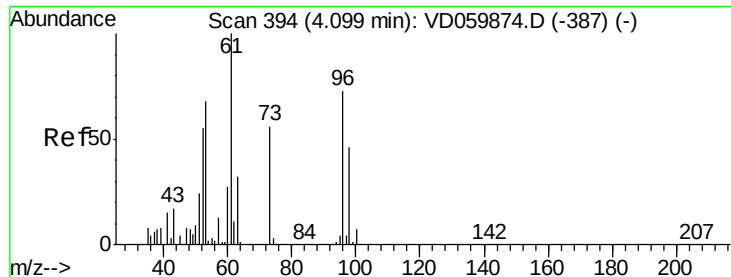
MMDadoda
8/24/2018 3:08:57 PM



#20
Methylene Chloride
Concen: 48.72 ug/l
RT: 3.72 min Scan# 355
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 84 Resp: 666675
Ion Ratio Lower Upper
84 100
49 154.3 122.6 183.8
51 45.7 38.4 57.6
86 64.9 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 49.17 ug/l

RT: 4.09 min Scan# 393

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

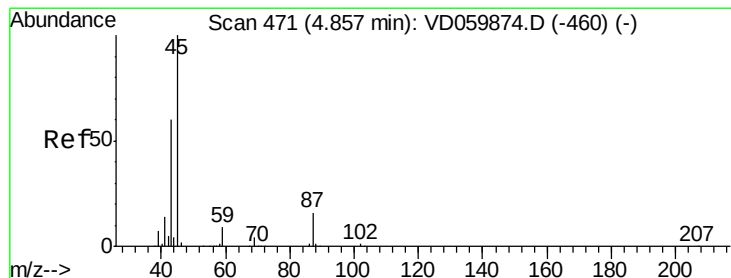
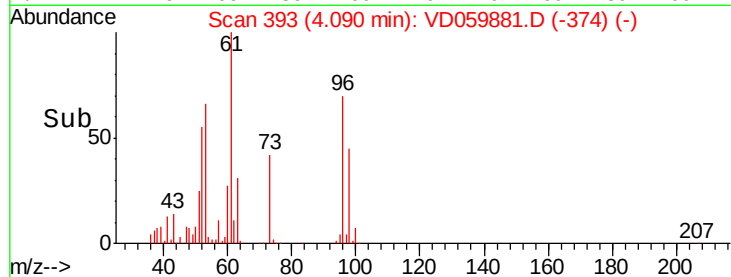
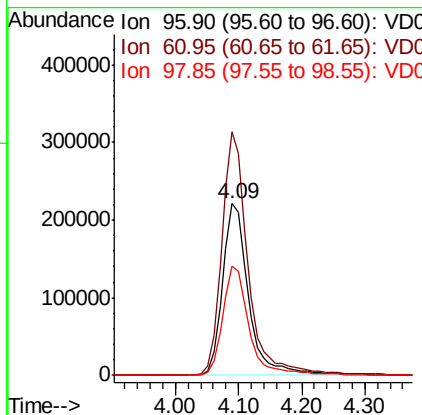
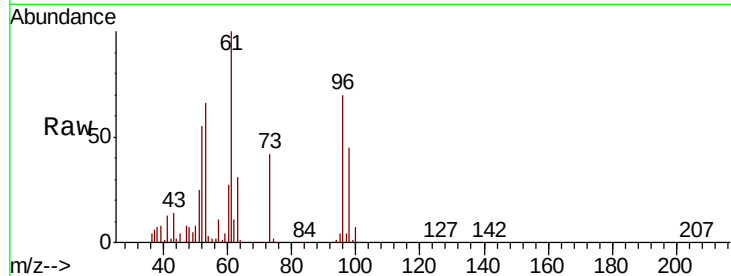
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	632160
Ion	Ratio	Lower	Upper
96	100		
61	142.1	110.2	165.4
98	63.7	50.9	76.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 49.67 ug/l

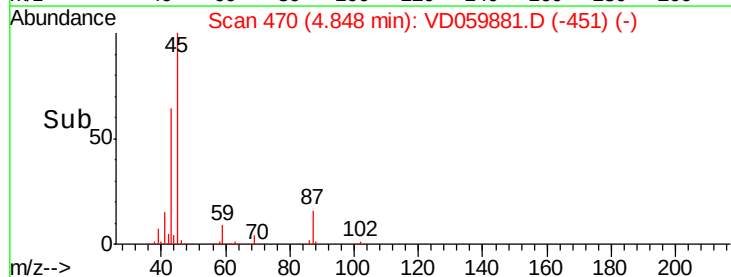
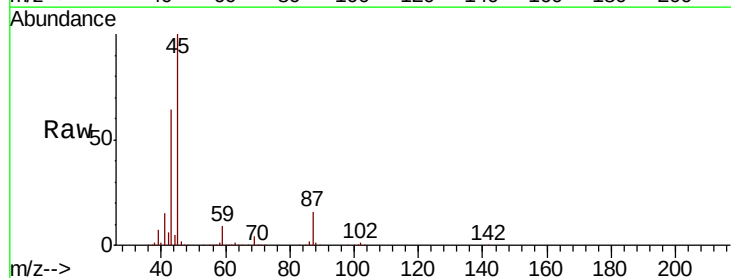
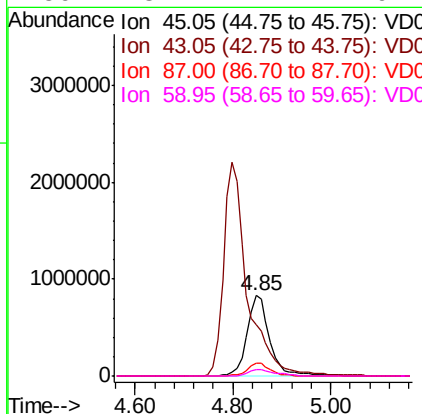
RT: 4.85 min Scan# 470

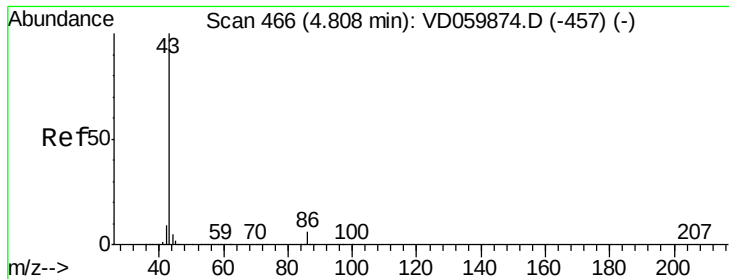
Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion:	45	Resp:	2674168
Ion	Ratio	Lower	Upper
45	100		
43	64.0	48.6	72.8
87	15.8	13.3	19.9
59	8.7	7.1	10.7





#23

Vinyl Acetate

Concen: 245.57 ug/l

RT: 4.80 min Scan# 465

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 7390959

Ion Ratio Lower Upper

43 100

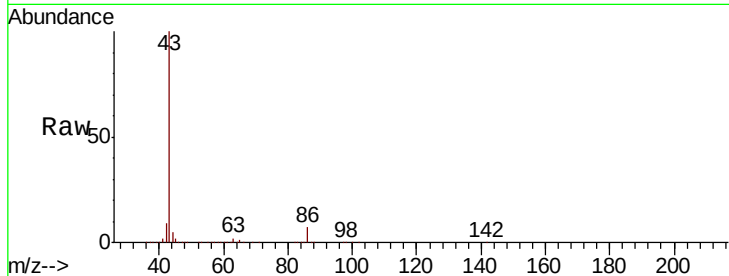
86 6.6 5.0 7.6

Manual Integrations

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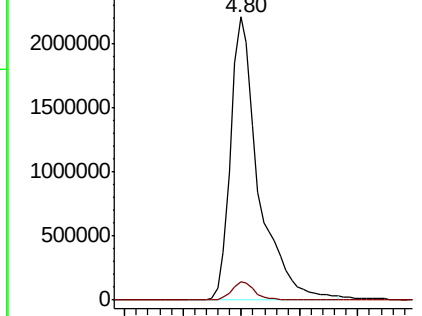
MMDadoda

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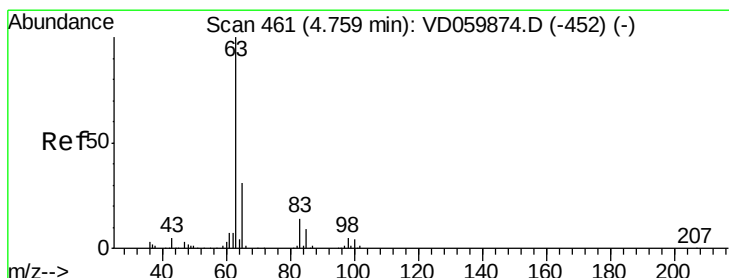
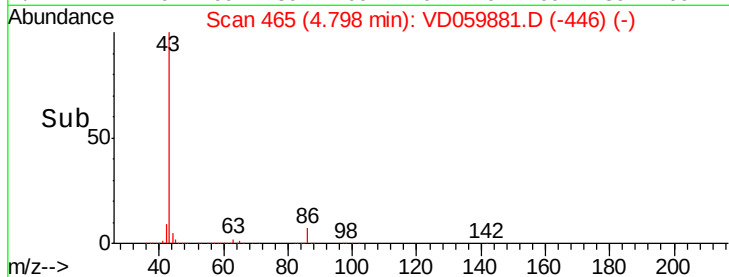


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



Time--> 4.60 4.70 4.80 4.90 5.00



#24

1,1-Dichloroethane

Concen: 49.99 ug/l

RT: 4.75 min Scan# 460

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

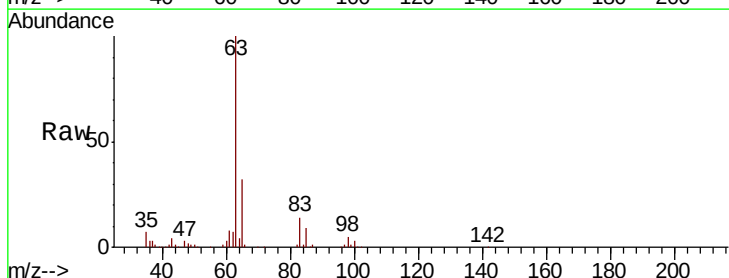
Tgt Ion: 63 Resp: 1162653

Ion Ratio Lower Upper

63 100

98 5.0 2.7 8.1

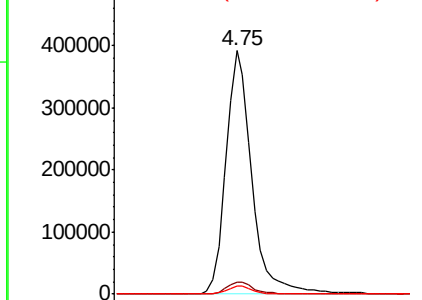
100 3.3 1.8 5.3



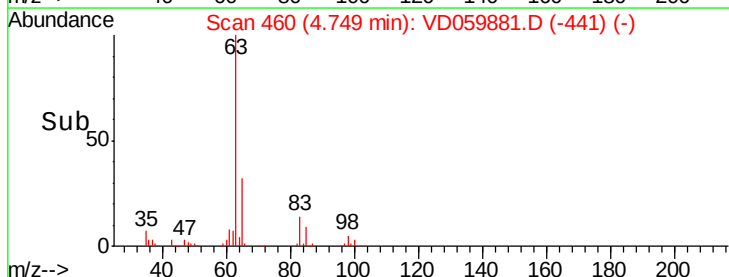
Abundance Ion 62.95 (62.65 to 63.65): VDC

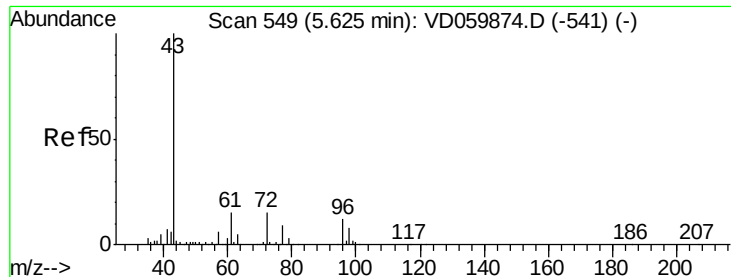
Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC



Time--> 4.60 4.70 4.80 4.90 5.00





#25

2-Butanone

Concen: 258.46 ug/l

RT: 5.62 min Scan# 548

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1566261

Ion Ratio Lower Upper

43 100

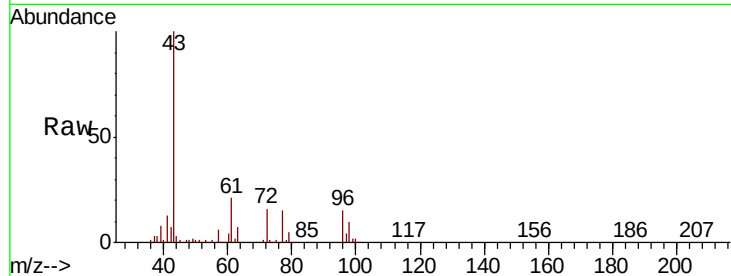
72 15.7 12.3 18.5

Manual Integrations

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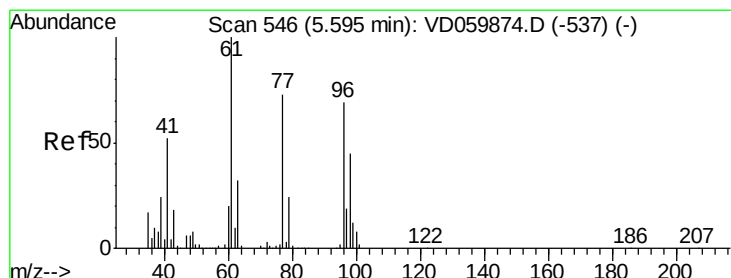
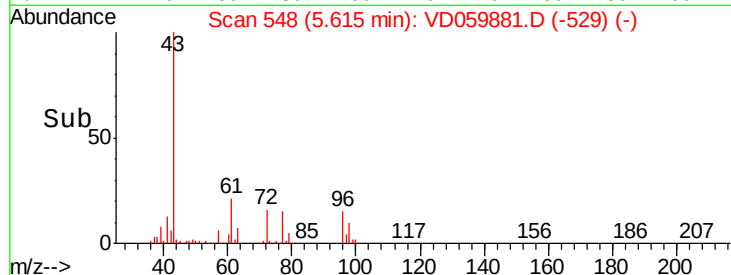
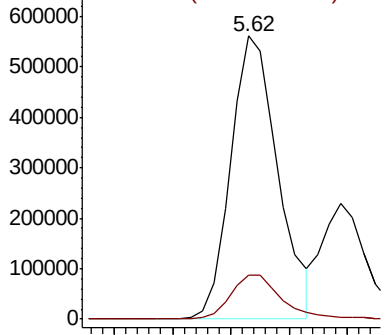
MMDadoda

8/24/2018 3:08:57 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 49.91 ug/l

RT: 5.59 min Scan# 545

Delta R.T. -0.01 min

Lab File: VD059881.D

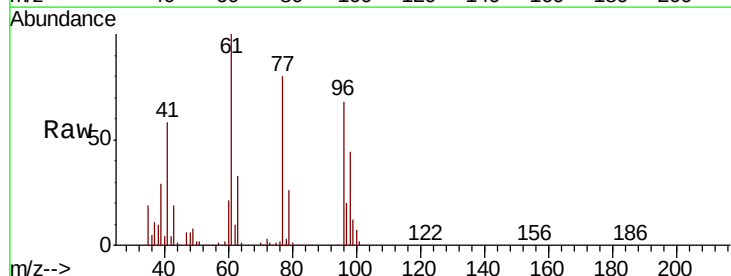
Acq: 23 Aug 2018 11:01

Tgt Ion: 77 Resp: 970465

Ion Ratio Lower Upper

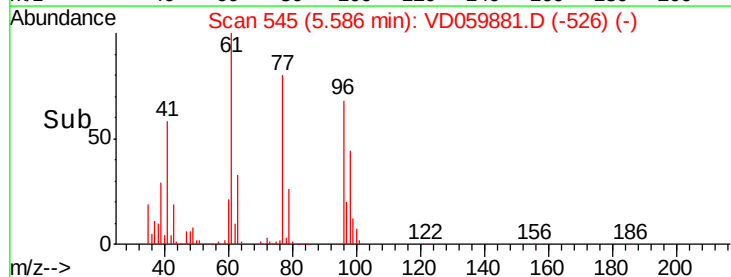
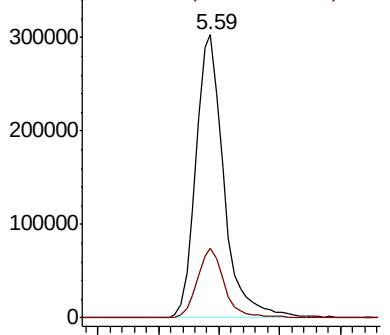
77 100

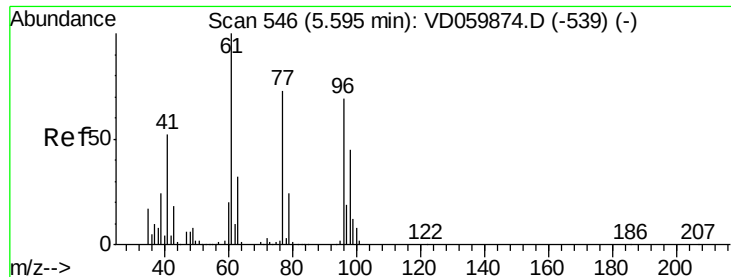
97 24.7 13.0 38.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

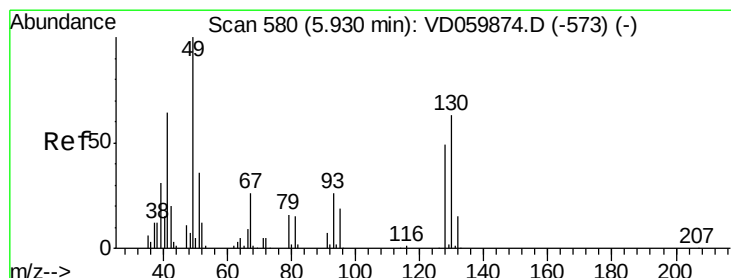
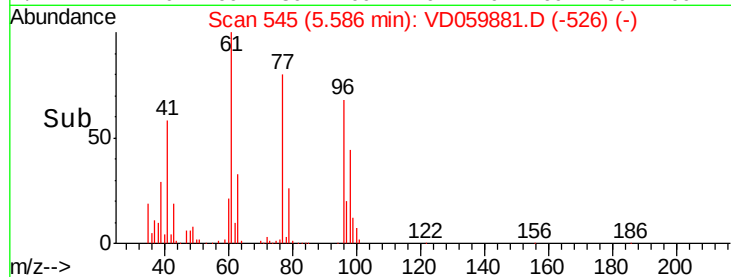
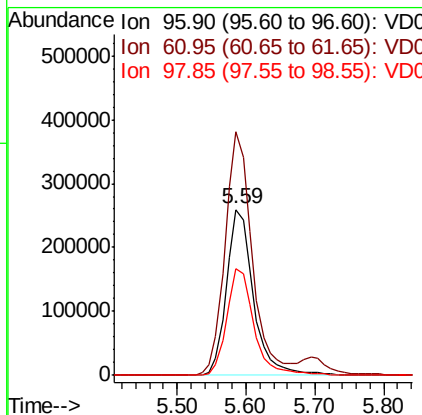
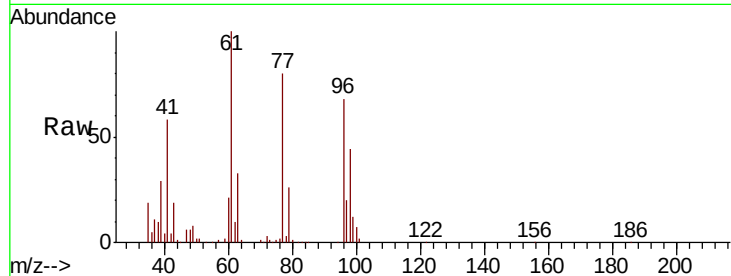
cis-1,2-Dichloroethene
Concen: 50.01 ug/l
RT: 5.59 min Scan# 545
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	146.9	0.0	290.2	
98	64.1	0.0	130.4	

Manual Integrations
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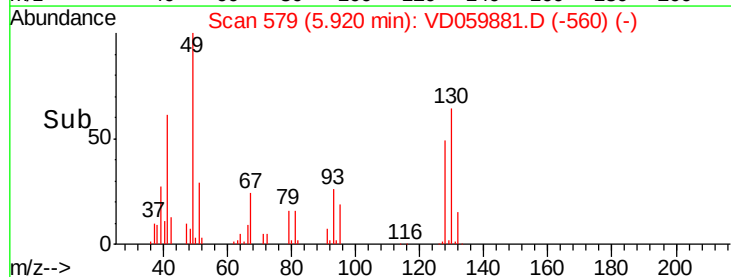
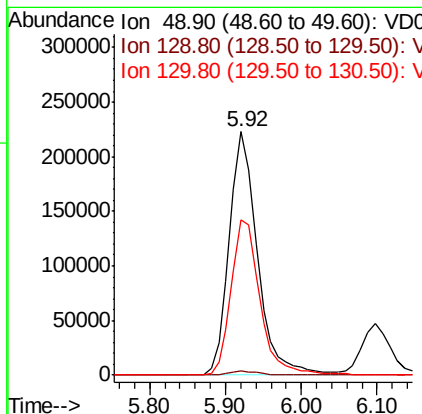
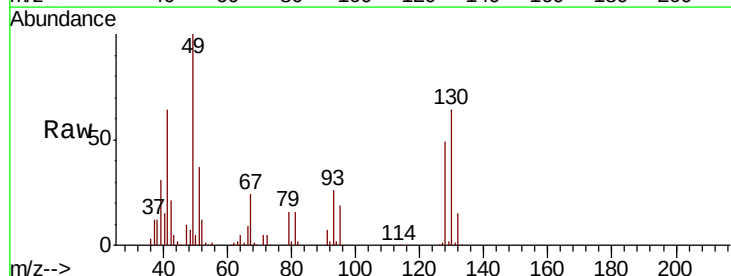
MMDadoda
8/24/2018 3:08:57 PM

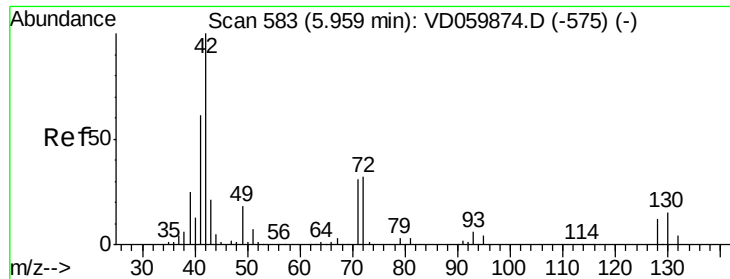


#28

Bromochloromethane
Concen: 51.67 ug/l
RT: 5.92 min Scan# 579
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.5	0.0	3.2	
130	63.6	50.6	75.8	





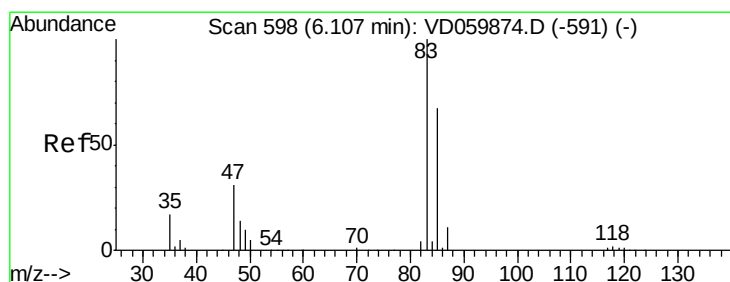
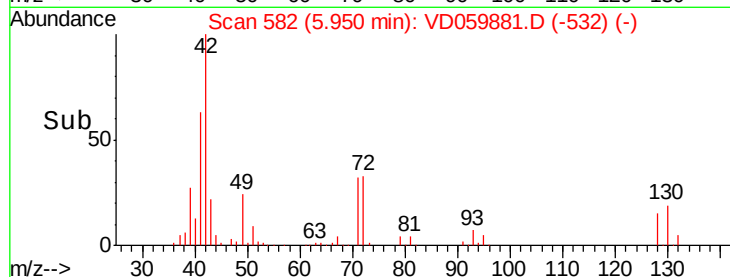
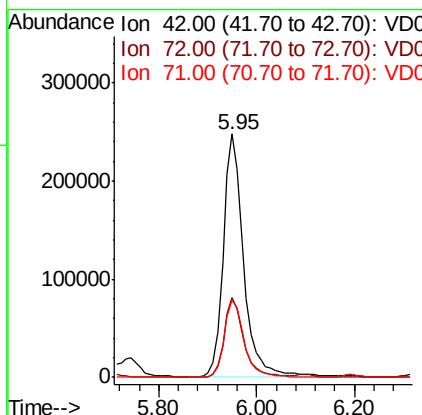
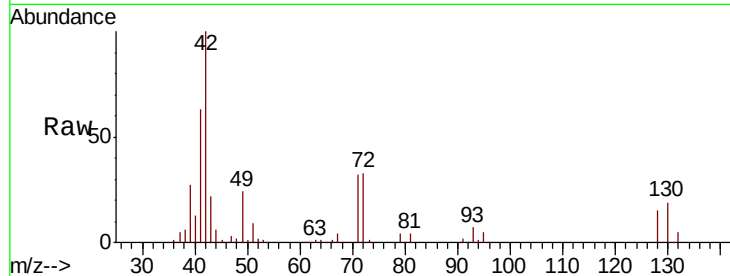
#29
Tetrahydrofuran
Concen: 245.67 ug/l
RT: 5.95 min Scan# 582
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	31.7	25.7	38.5
71	31.2	25.3	37.9

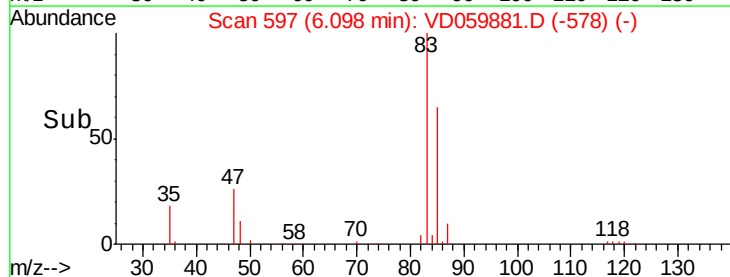
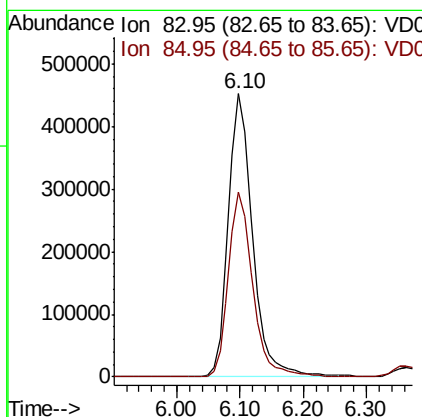
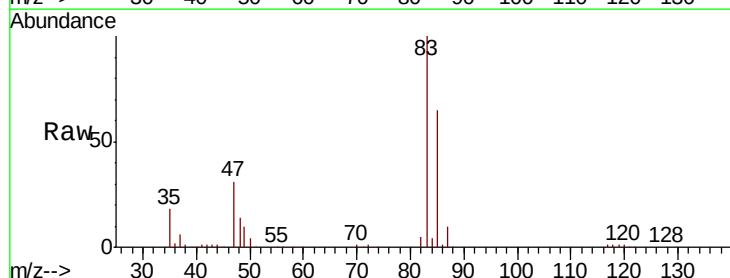
Manual Integrations
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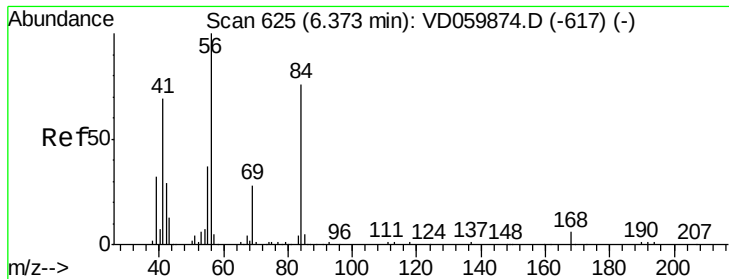
MMDadoda
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#30
Chloroform
Concen: 50.88 ug/l
RT: 6.10 min Scan# 597
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.5	80.3





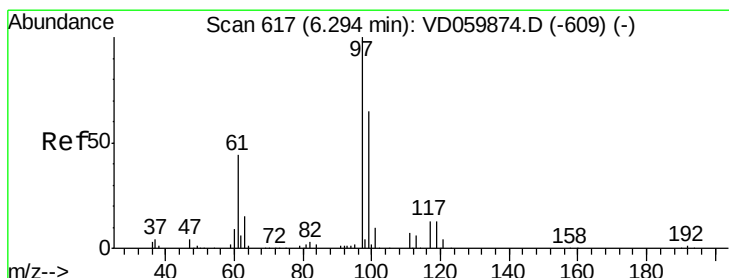
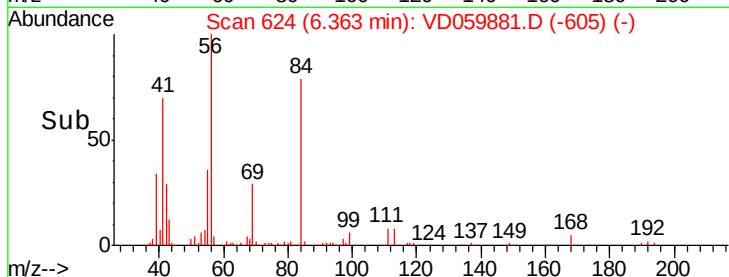
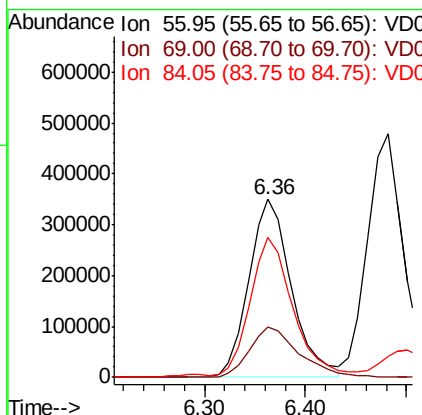
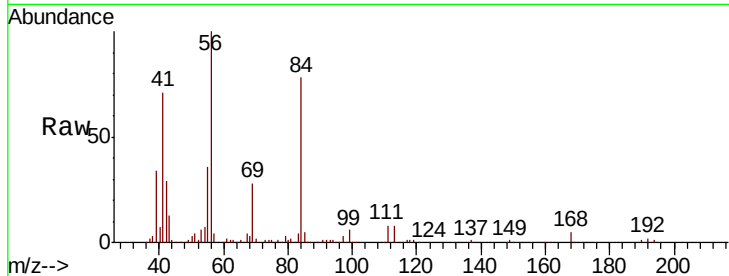
#31
Cyclohexane
Concen: 47.93 ug/l
RT: 6.36 min Scan# 624
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1024862
Ion Ratio Lower Upper
56 100
69 28.5 22.4 33.6
84 78.5 62.1 93.1

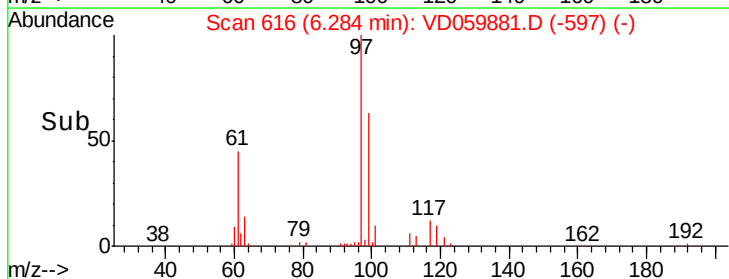
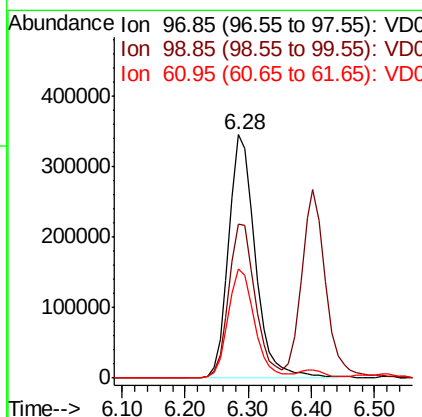
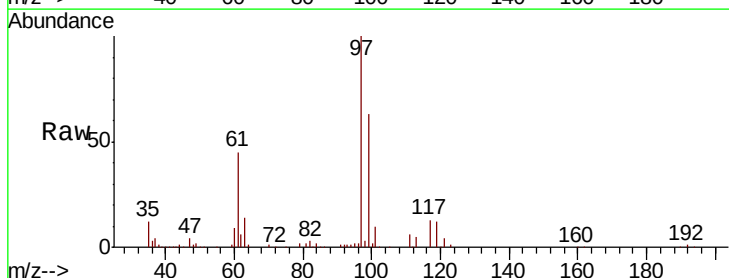
Manual Integrations
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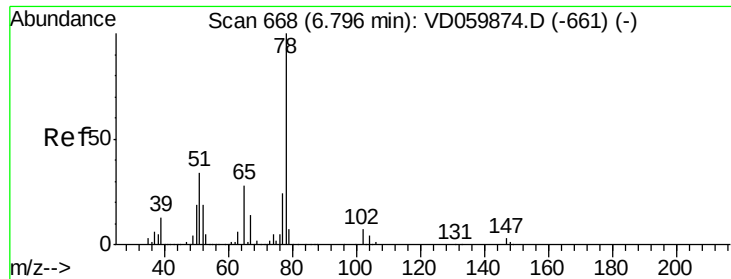
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#32
1,1,1-Trichloroethane
Concen: 50.16 ug/l
RT: 6.28 min Scan# 616
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 97 Resp: 1006351
Ion Ratio Lower Upper
97 100
99 63.2 51.7 77.5
61 44.7 35.4 53.2





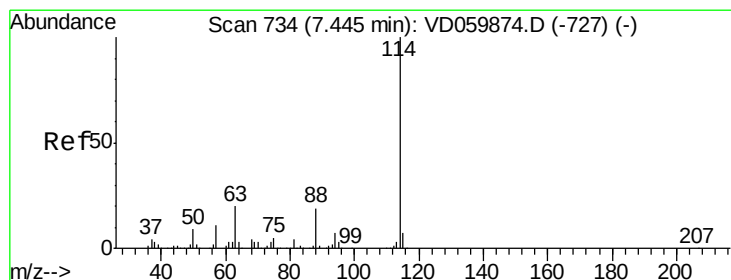
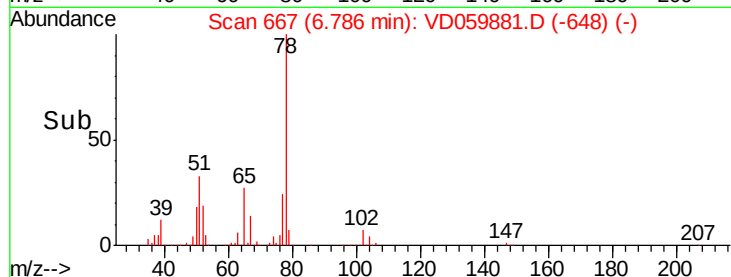
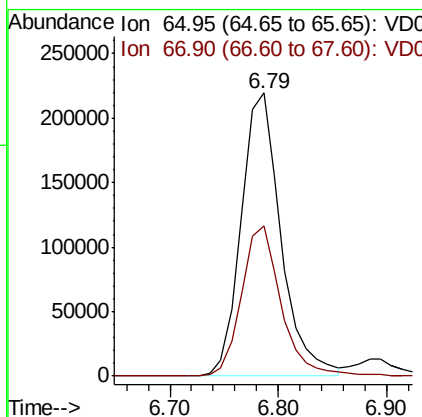
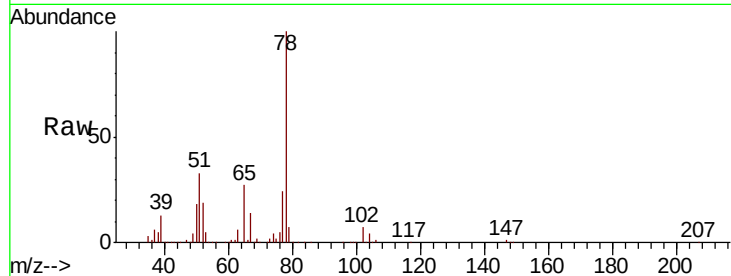
#33
 1,2-Dichloroethane-d4
 Concen: 50.16 ug/l
 RT: 6.79 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.9	0.0	103.8	

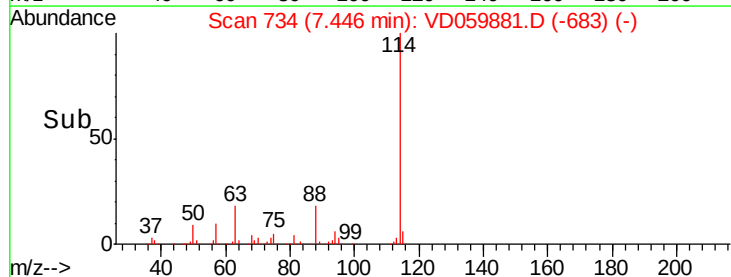
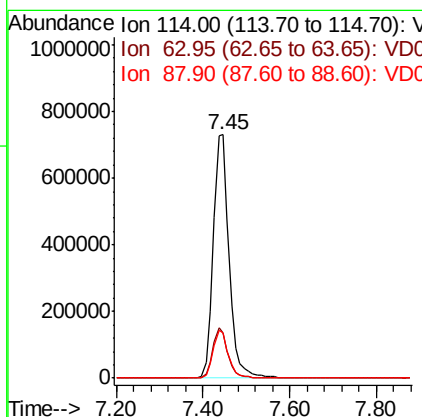
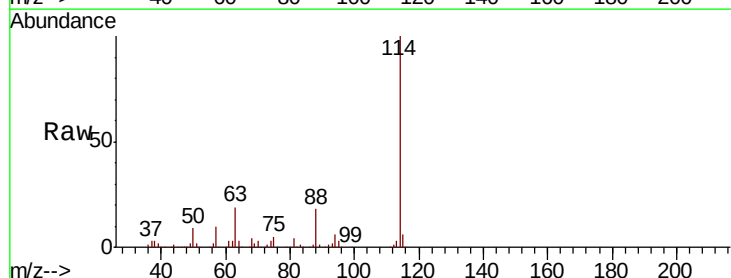
Manual Integrations
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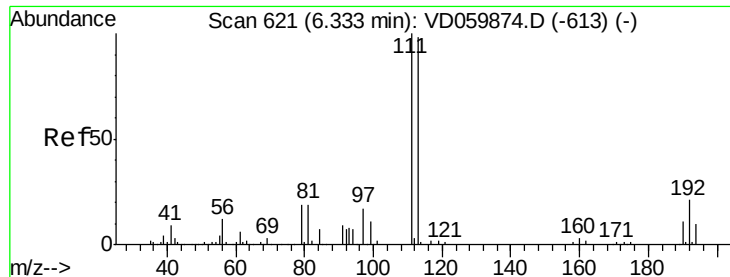
MMDadoda
 8/24/2018 3:08:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.45 min Scan# 734
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.8	0.0	39.4	
88	18.3	0.0	37.6	





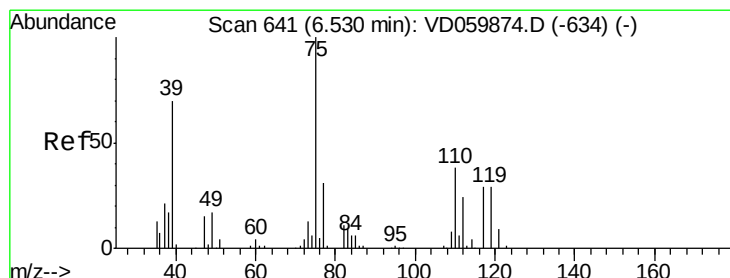
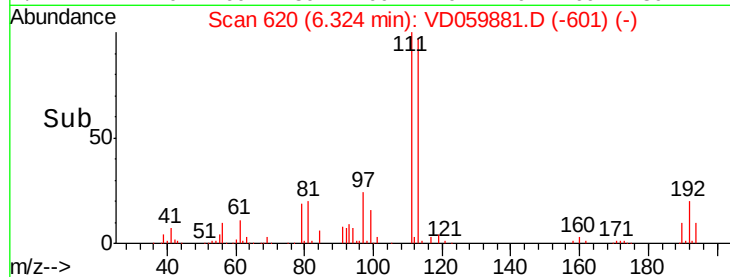
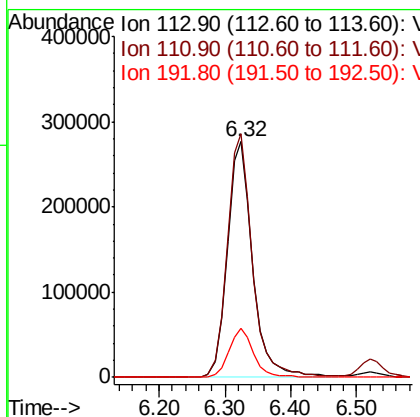
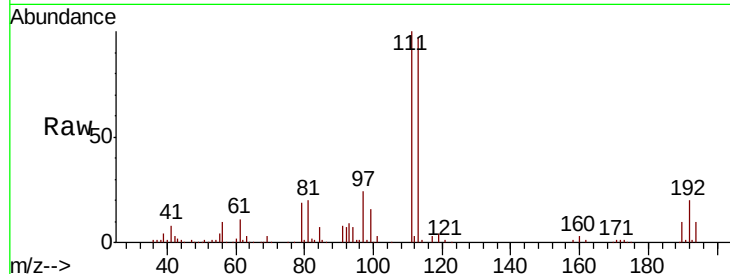
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 6.32 min Scan# 620
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	739134		
111	103.3	81.4	122.2	
192	21.0	17.0	25.6	

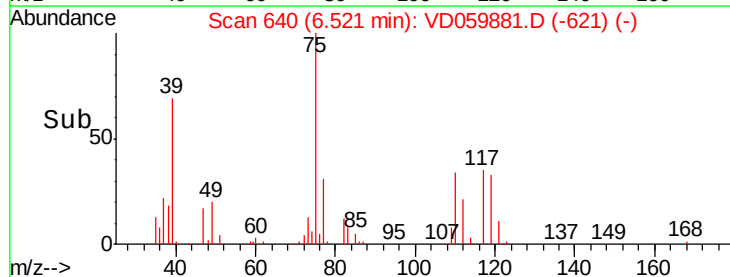
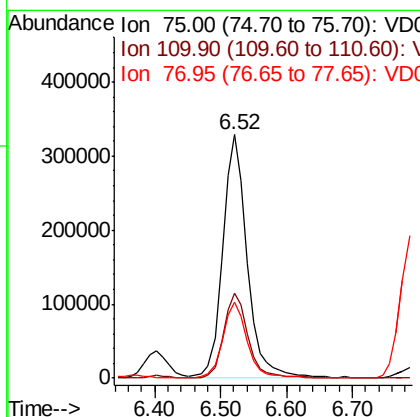
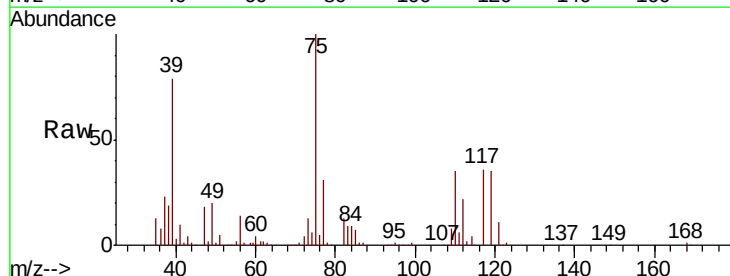
Manual Integrations
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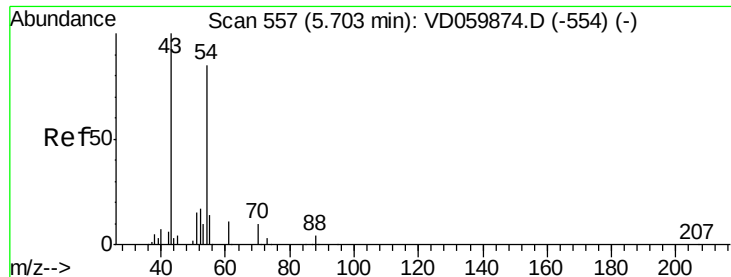
MMDadoda
8/24/2018 3:08:57 PM



#36
1,1-Dichloropropene
Concen: 50.05 ug/l
RT: 6.52 min Scan# 640
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	838590		
110	34.9	18.6	56.0	
77	31.4	25.1	37.7	





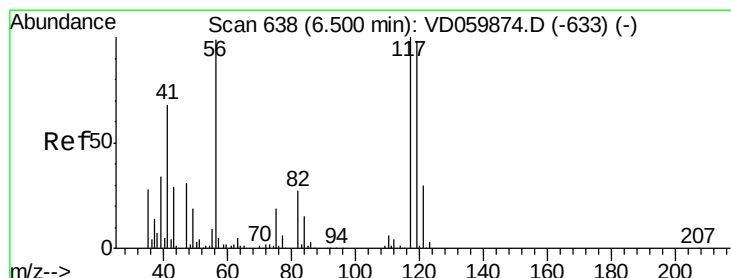
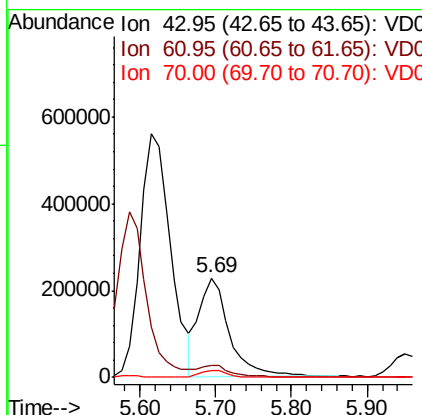
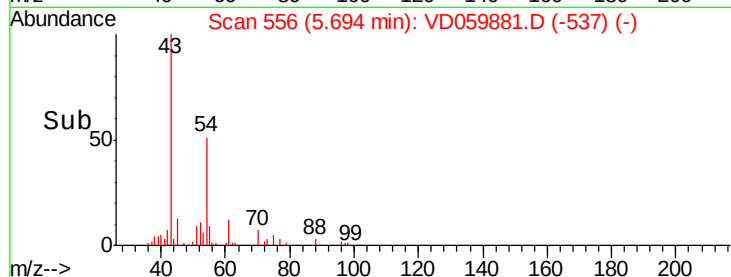
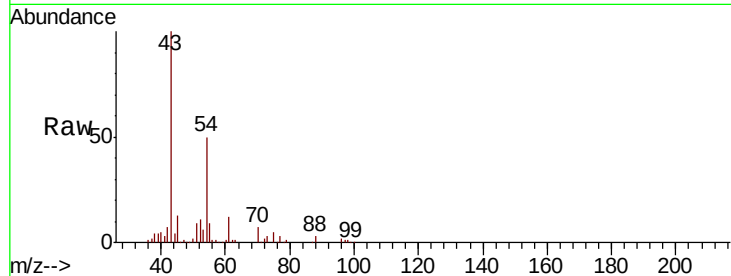
#37
Ethyl Acetate
Concen: 48.41 ug/l
RT: 5.69 min Scan# 556
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	12.2	11.0	16.6	
70	7.2	5.7	8.5	

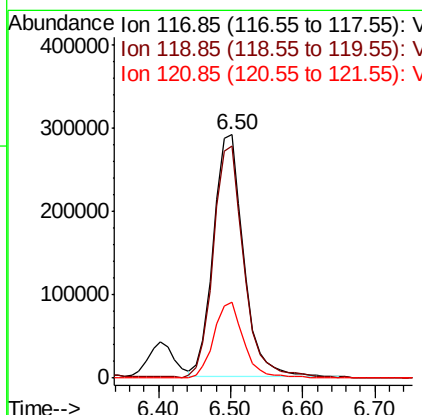
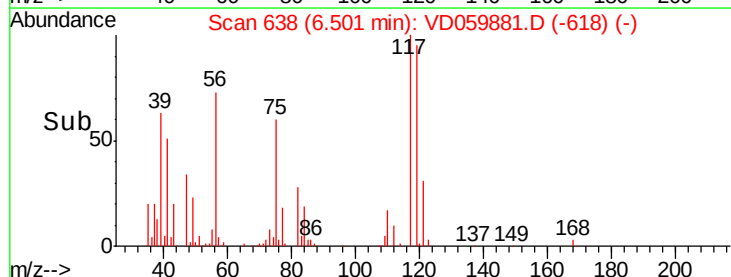
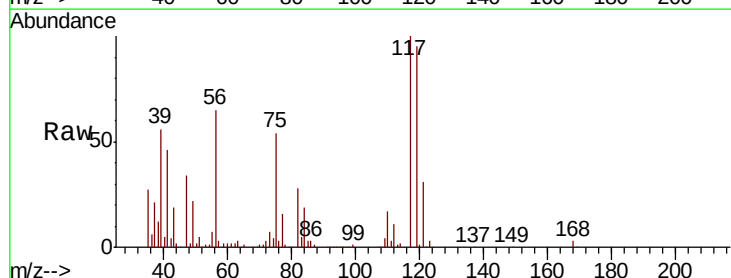
Manual Integrations
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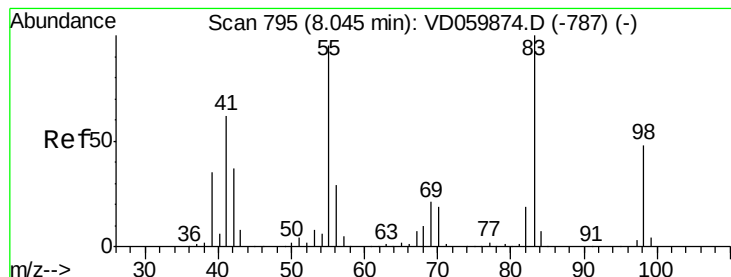
MMDadoda
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#38
Carbon Tetrachloride
Concen: 49.67 ug/l
RT: 6.50 min Scan# 638
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	95.4	77.2	115.8	
121	31.2	24.0	36.0	





#39

Methylvlcyclohexane

Concen: 50.61 ug/l

RT: 8.04 min Scan# 794

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

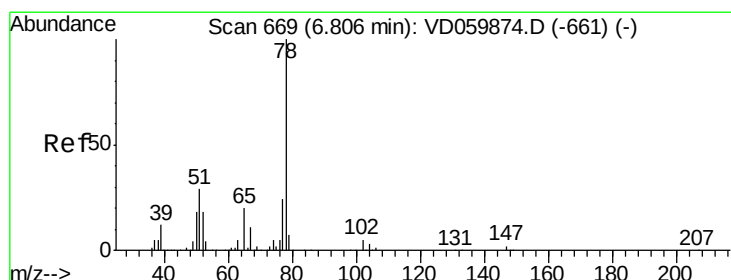
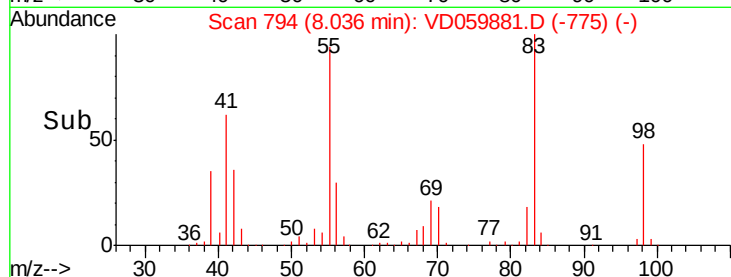
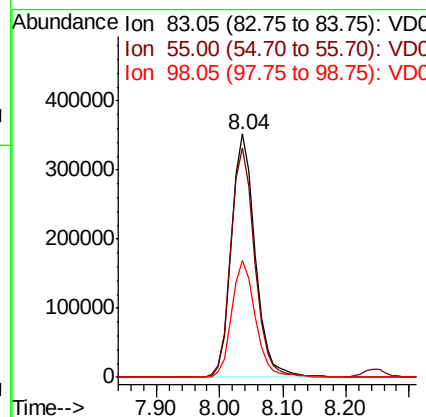
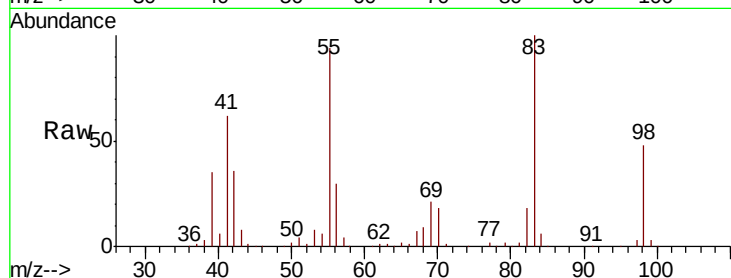
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	916202
Ion	Ratio	Lower	Upper
83	100		
55	94.3	75.8	113.6
98	48.1	38.3	57.5

Manual Integrations
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#40

Benzene

Concen: 49.58 ug/l

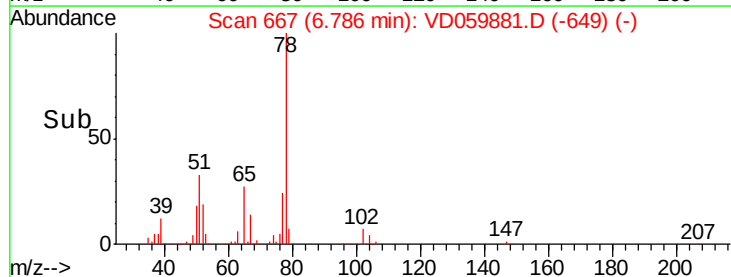
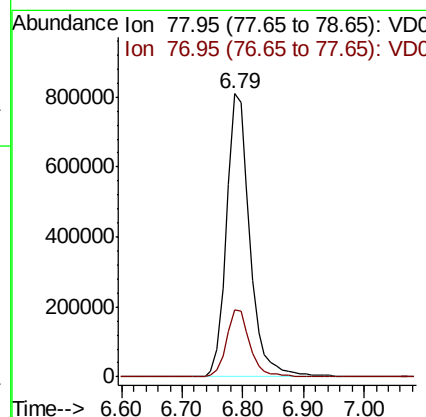
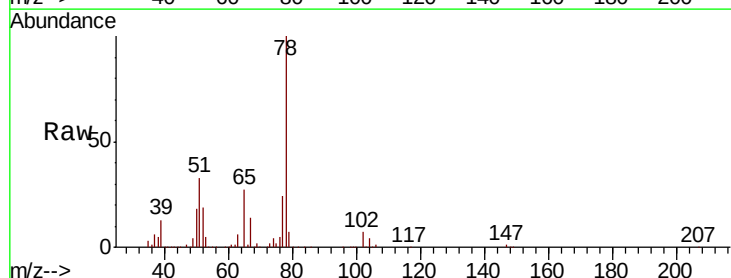
RT: 6.79 min Scan# 667

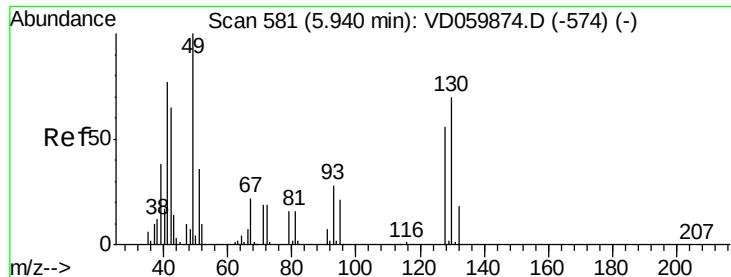
Delta R.T. -0.02 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion:	78	Resp:	2159944
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.4





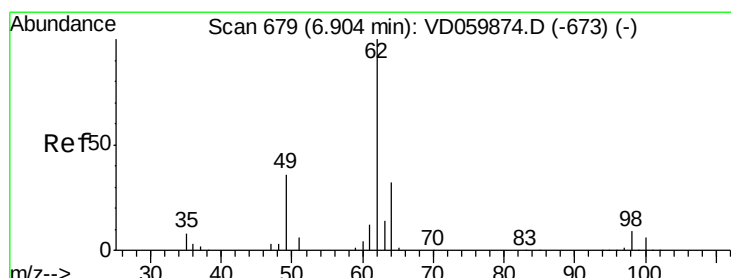
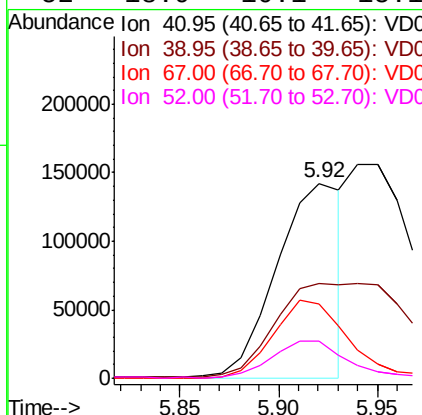
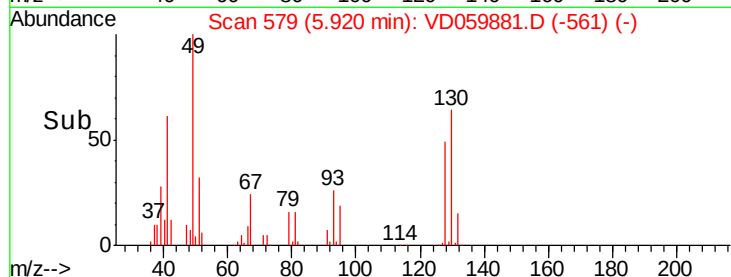
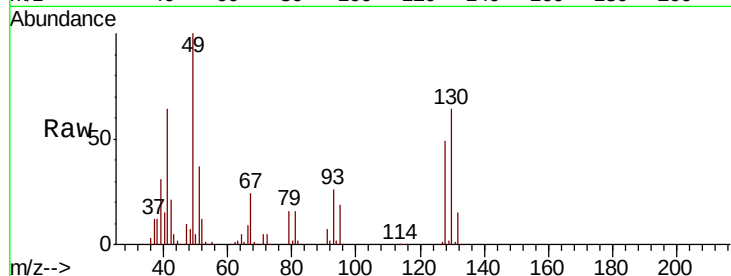
#41
Methacrylonitrile
Concen: 50.78 ug/l m
RT: 5.92 min Scan# 579
Delta R.T. -0.02 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.7	39.4	59.2
67	38.1	22.2	33.2#
52	18.9	10.1	15.1#

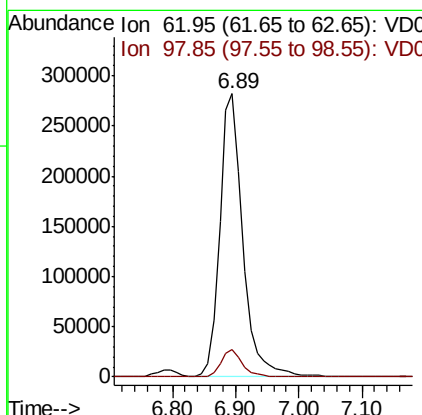
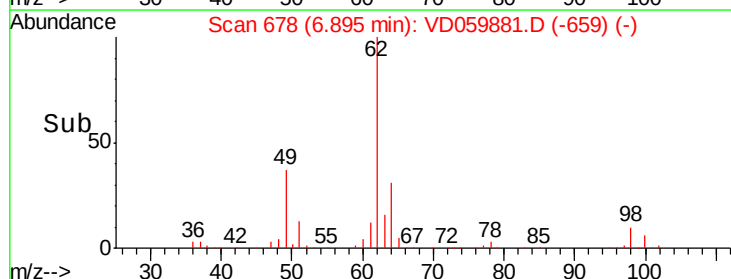
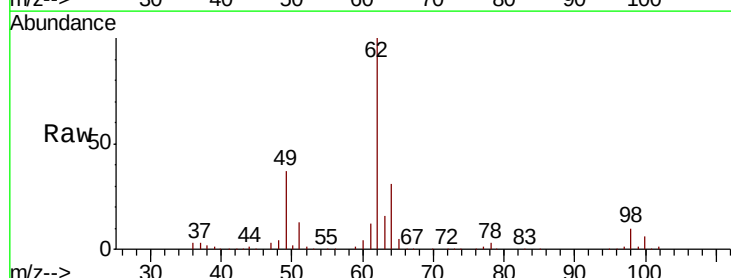
Manual Integrations
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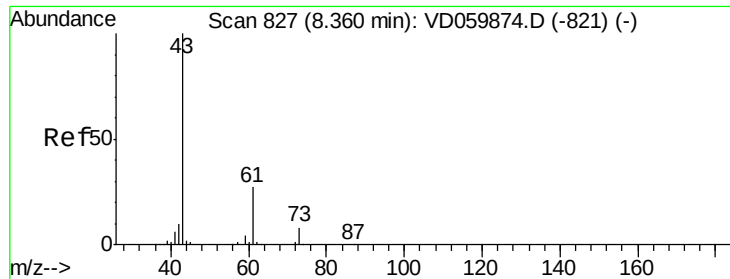
MMDadoda
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#42
1,2-Dichloroethane
Concen: 50.82 ug/l
RT: 6.89 min Scan# 678
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.4





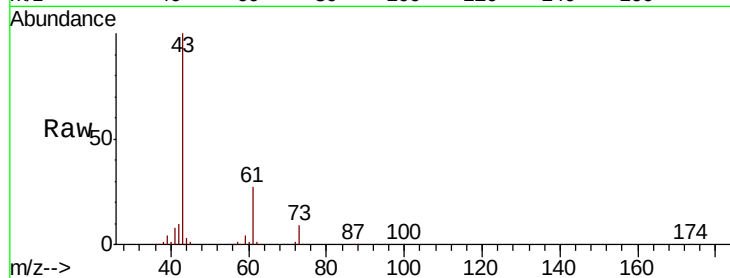
#43
Isopropyl Acetate
Concen: 48.86 ug/l
RT: 8.35 min Scan# 826
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

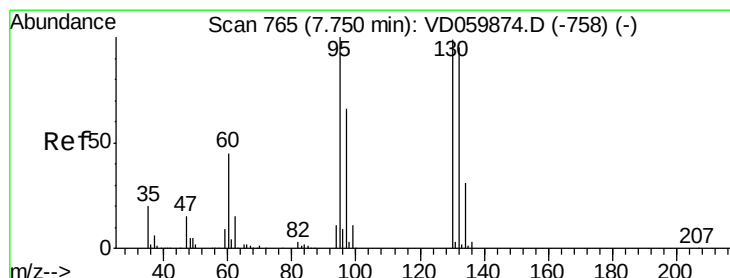
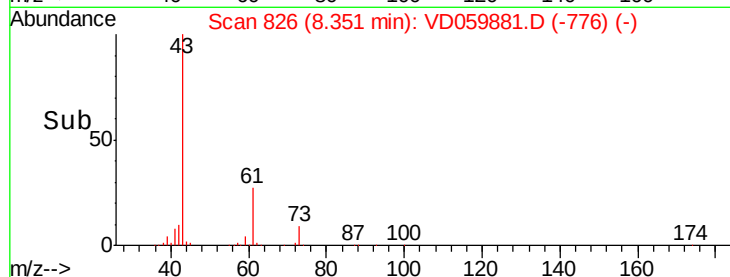
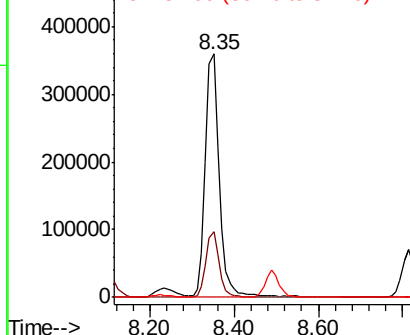
Tot Ion	Ratio	Lower	Upper
43	100		
61	26.9	21.4	32.2
87	0.3	0.2	0.4

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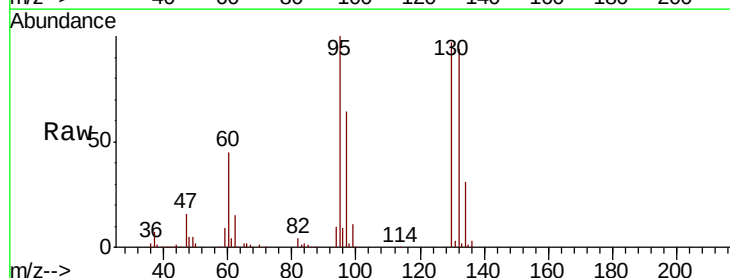


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC

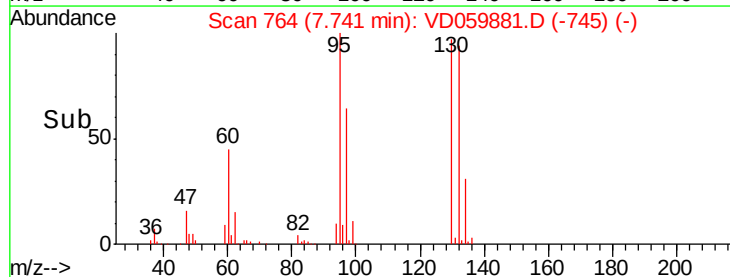
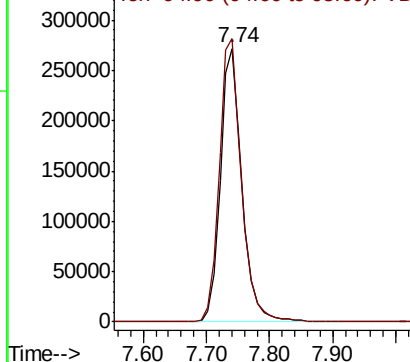


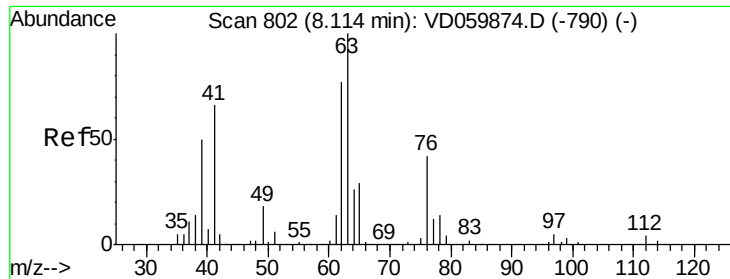
#44
Trichloroethene
Concen: 50.44 ug/l
RT: 7.74 min Scan# 764
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.6	0.0	202.0



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





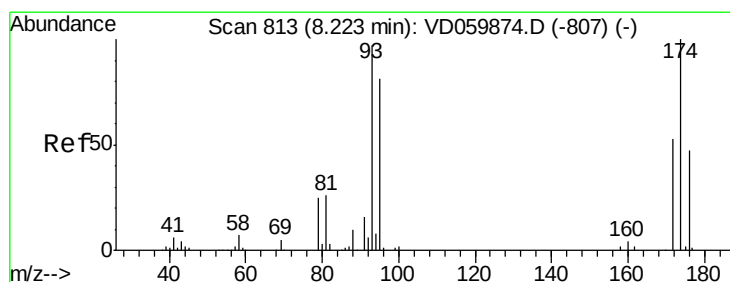
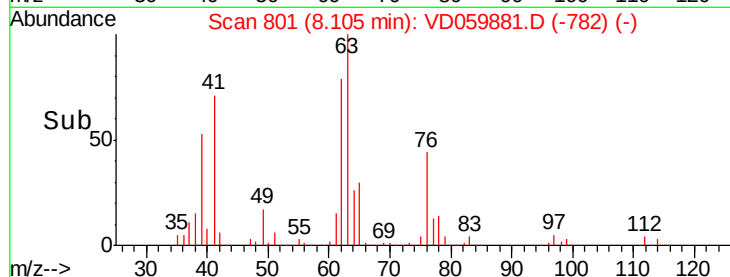
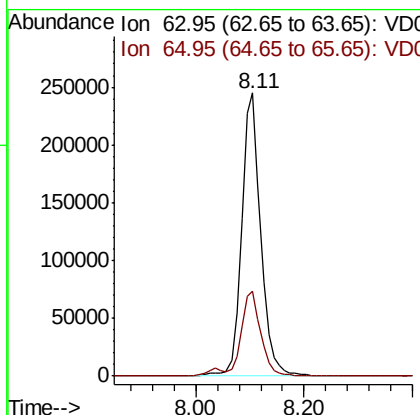
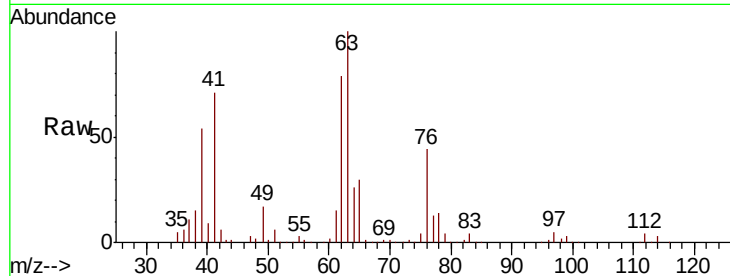
#45
 1,2-Dichloropropane
 Concen: 49.38 ug/l
 RT: 8.11 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 601292
 Ion Ratio Lower Upper
 63 100
 65 30.0 23.5 35.3

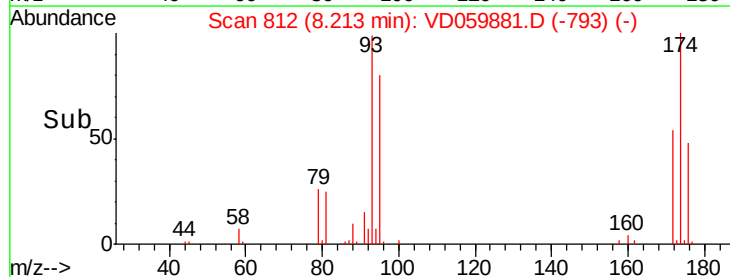
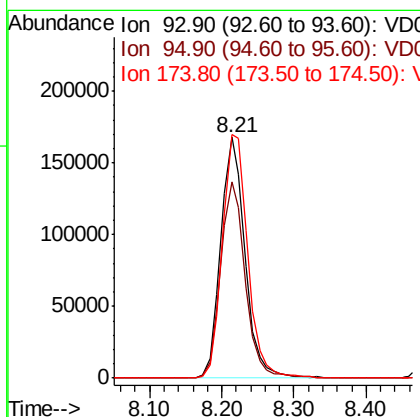
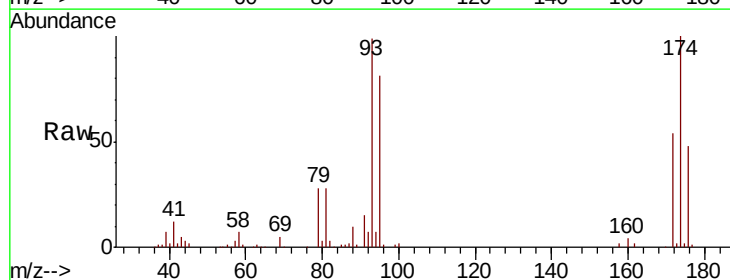
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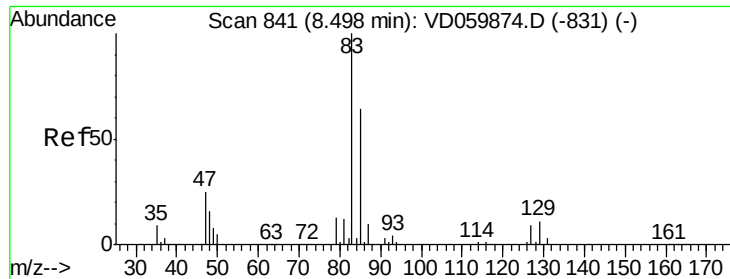
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#46
 Dibromomethane
 Concen: 49.75 ug/l
 RT: 8.21 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion: 93 Resp: 389542
 Ion Ratio Lower Upper
 93 100
 95 81.7 66.6 100.0
 174 101.1 82.4 123.6





#47

Bromodichloromethane

Concen: 50.56 ug/l

RT: 8.49 min Scan# 840

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

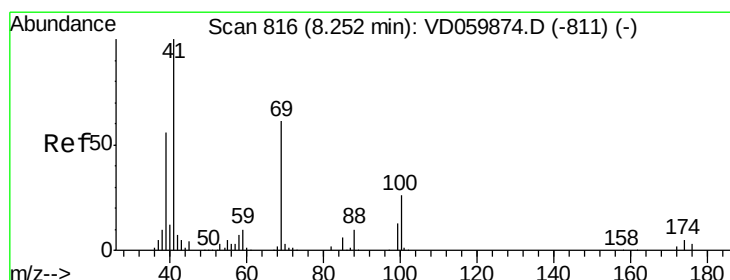
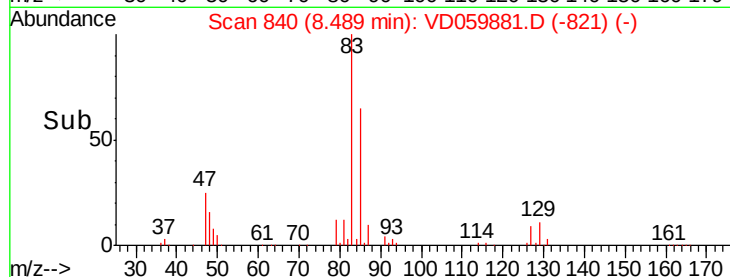
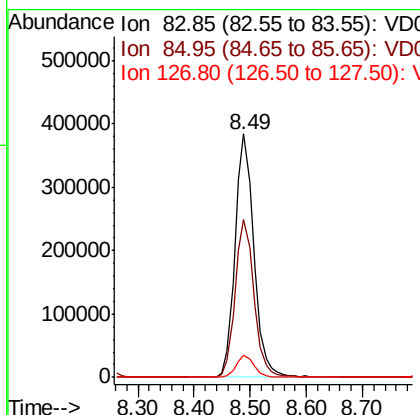
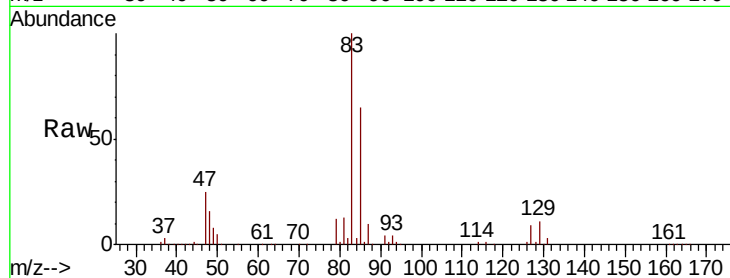
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	896163
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.3	76.9
127	9.1	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 48.69 ug/l

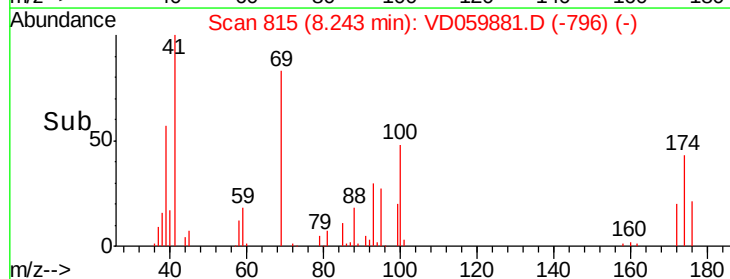
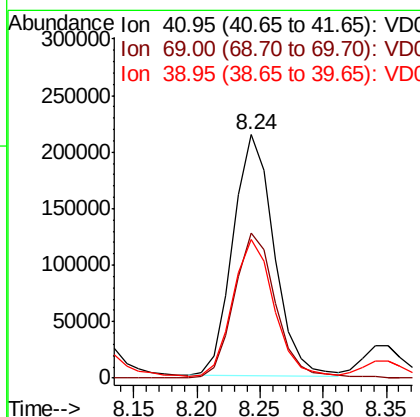
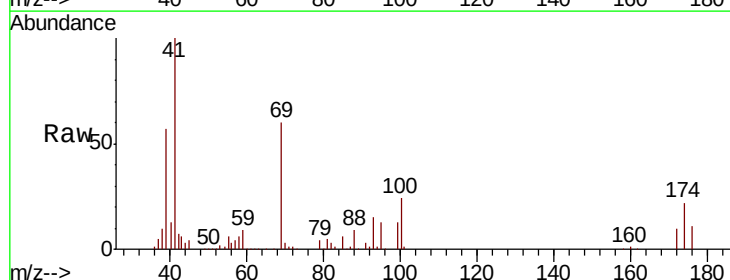
RT: 8.24 min Scan# 815

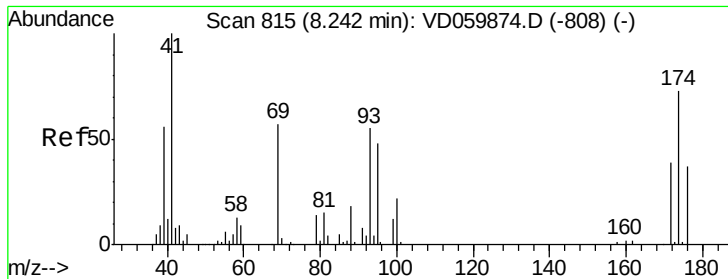
Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion:	41	Resp:	481409
Ion	Ratio	Lower	Upper
41	100		
69	59.7	48.0	72.0
39	56.9	45.4	68.0





#49

1,4-Dioxane

Concen: 950.01 ug/l

RT: 8.22 min Scan# 813

Delta R.T. -0.02 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 88 Resp: 83866

Ion Ratio Lower Upper

88 100

43 48.1 45.0 67.6

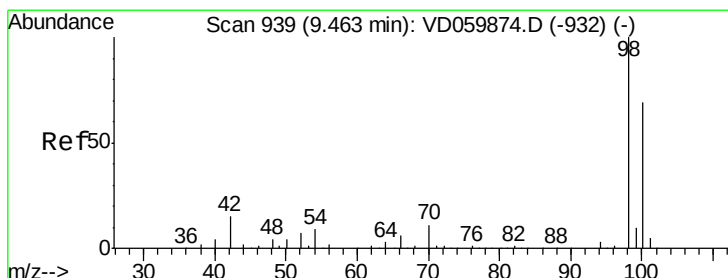
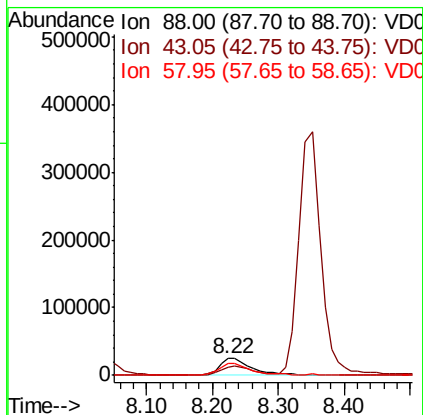
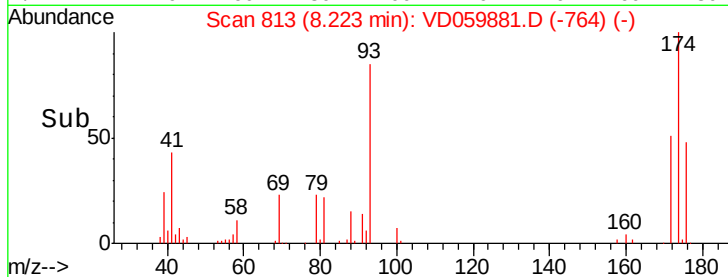
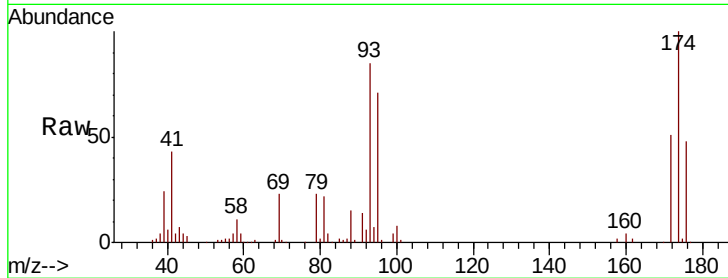
58 71.6 55.8 83.8

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#50

Toluene-d8

Concen: 950.01 ug/l

RT: 9.45 min Scan# 938

Delta R.T. -0.01 min

Lab File: VD059881.D

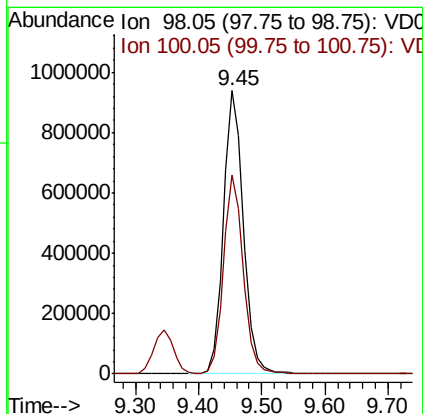
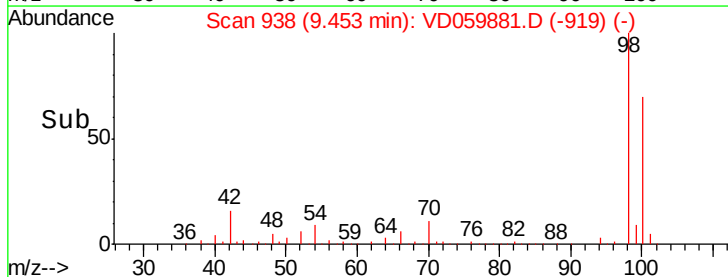
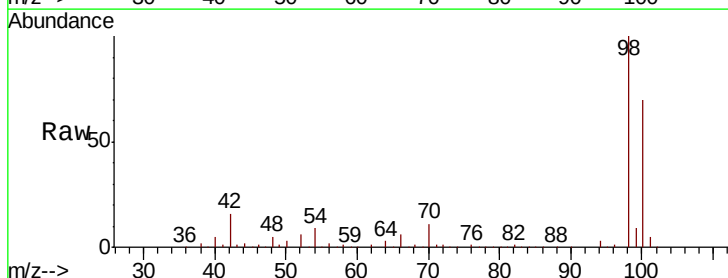
Acq: 23 Aug 2018 11:01

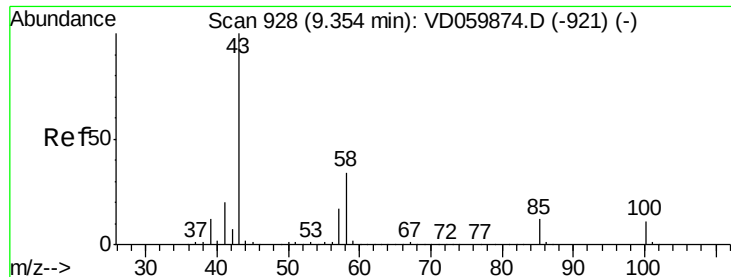
Tgt Ion: 98 Resp: 2060658

Ion Ratio Lower Upper

98 100

100 70.3 55.8 83.6





#51

4-Methyl-2-Pentanone

Concen: 260.52 ug/l

RT: 9.34 min Scan# 927

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3294522

Ion Ratio Lower Upper

43 100

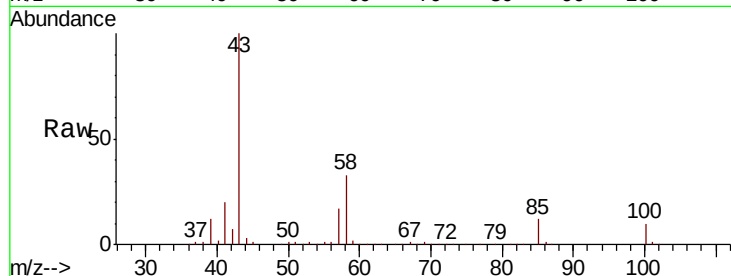
58 33.2 27.0 40.4

Manual Integrations

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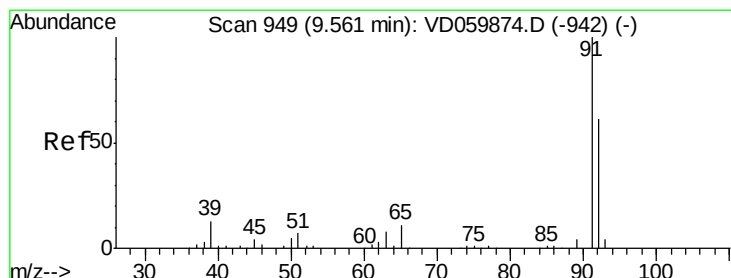
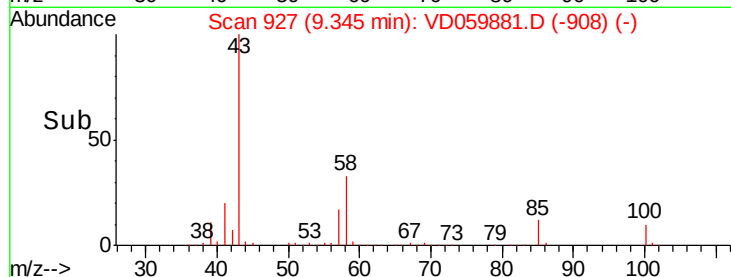
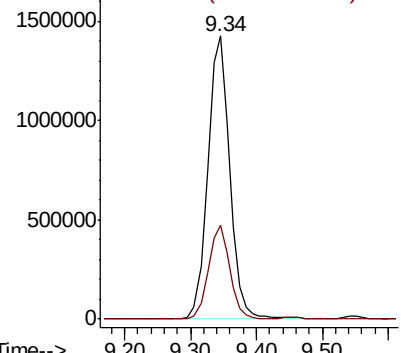
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 50.90 ug/l

RT: 9.55 min Scan# 948

Delta R.T. -0.01 min

Lab File: VD059881.D

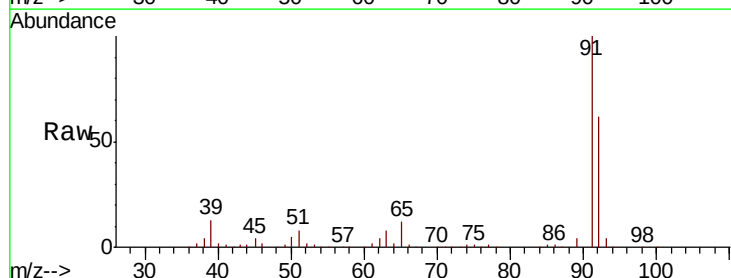
Acq: 23 Aug 2018 11:01

Tgt Ion: 92 Resp: 1421859

Ion Ratio Lower Upper

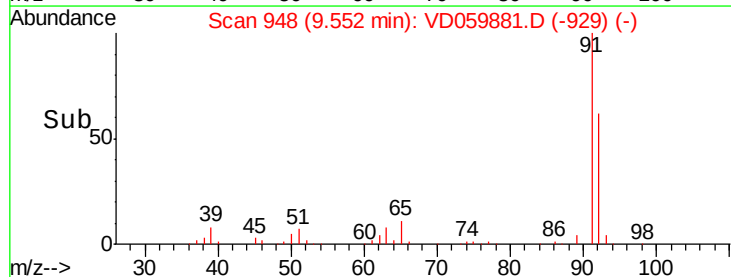
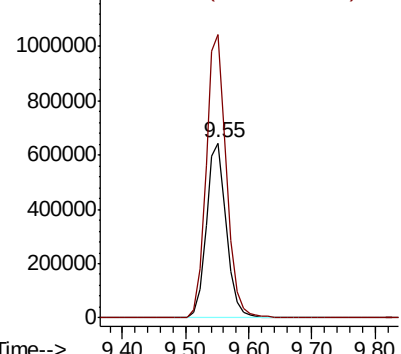
92 100

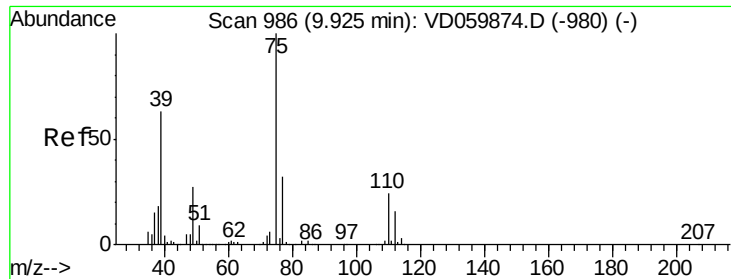
91 161.9 131.4 197.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





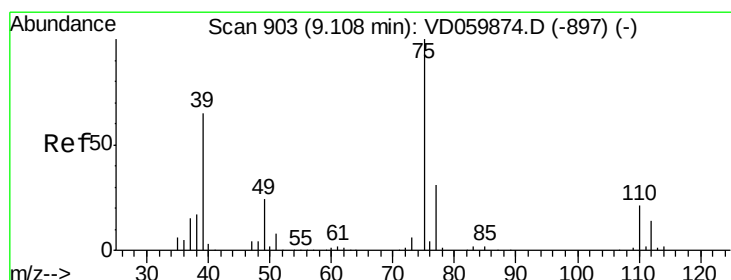
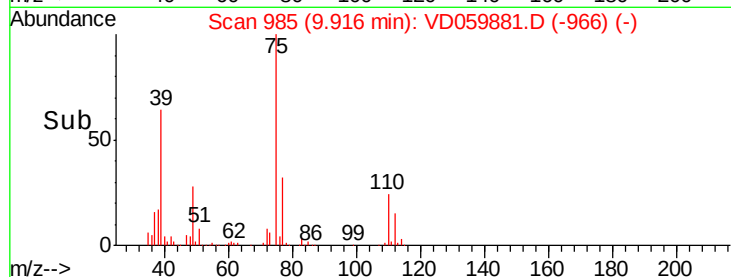
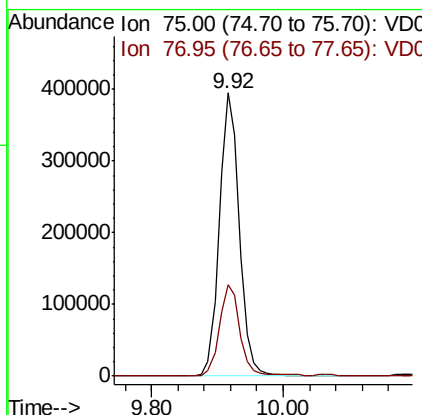
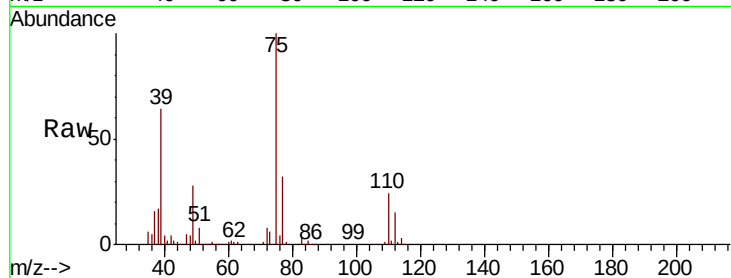
#53
t-1,3-Dichloropropene
Concen: 50.68 ug/l
RT: 9.92 min Scan# 985
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 830994
Ion Ratio Lower Upper
75 100
77 32.2 25.4 38.2

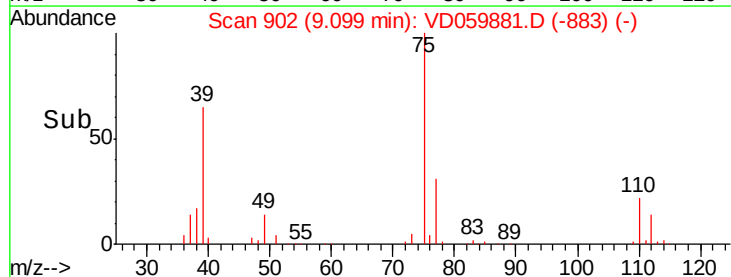
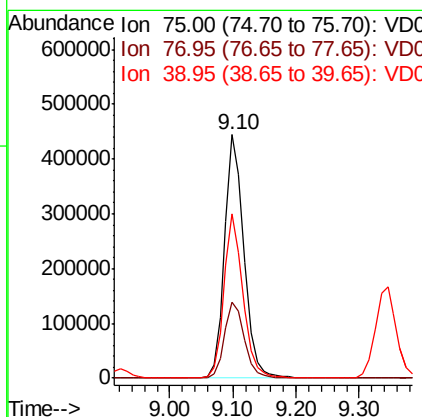
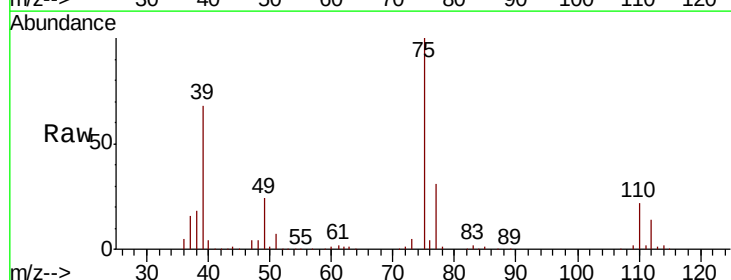
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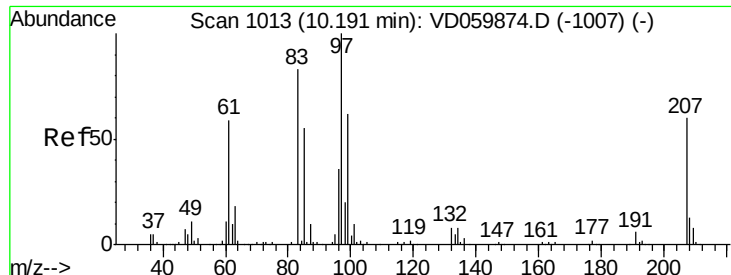
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#54
cis-1,3-Dichloropropene
Concen: 49.83 ug/l
RT: 9.10 min Scan# 902
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 75 Resp: 947172
Ion Ratio Lower Upper
75 100
77 31.2 24.8 37.2
39 67.6 52.1 78.1





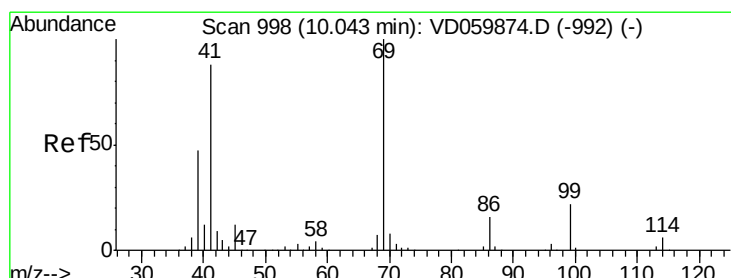
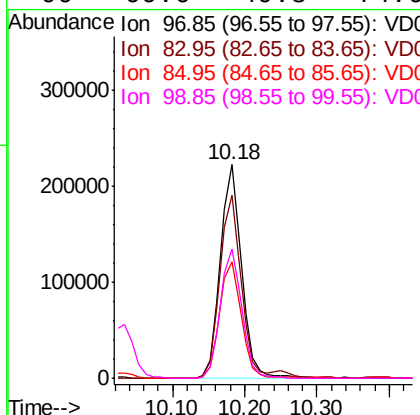
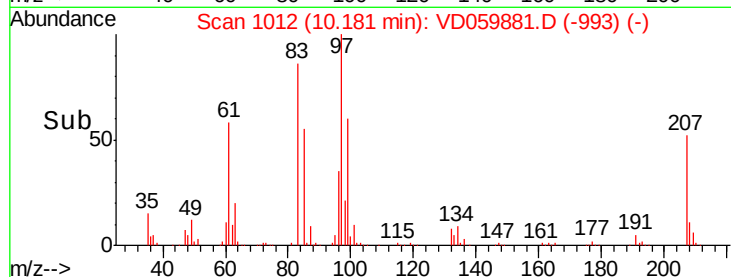
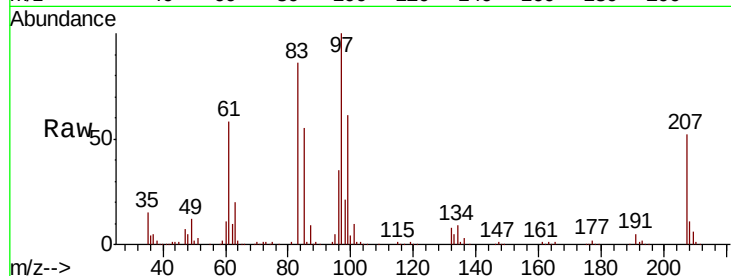
#55
 1,1,2-Trichloroethane
 Concen: 44.29 ug/l
 RT: 10.18 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.5	66.7	100.1
85	54.8	43.8	65.6
99	60.6	49.8	74.6

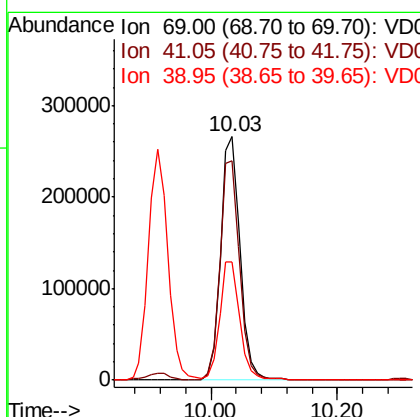
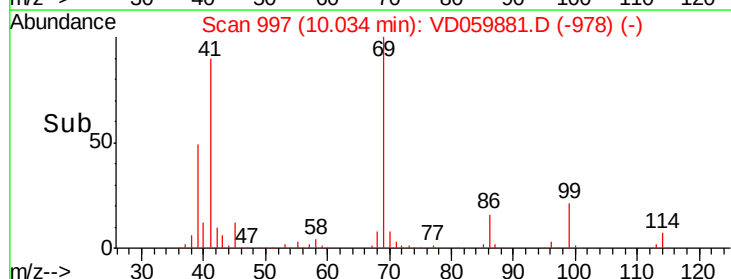
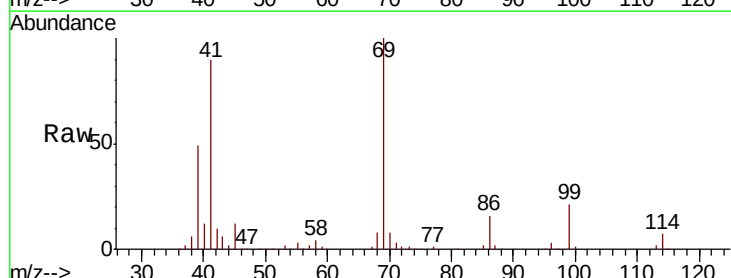
Manual Integrations
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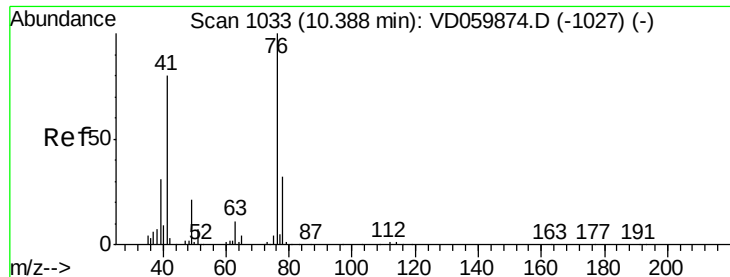
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#56
 Ethyl methacrylate
 Concen: 48.58 ug/l
 RT: 10.03 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	90.0	71.0	106.4
39	48.7	38.5	57.7





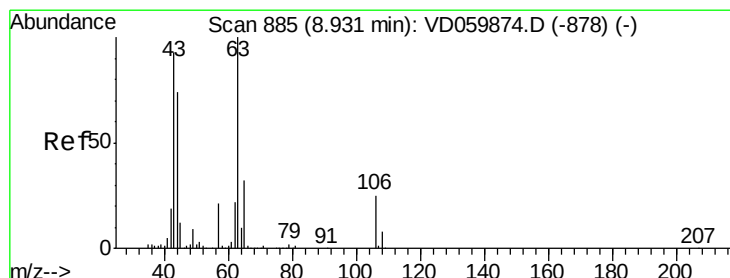
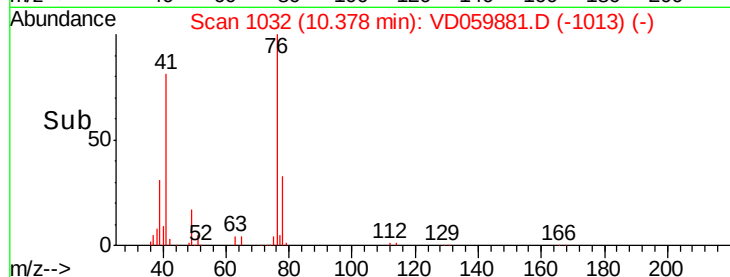
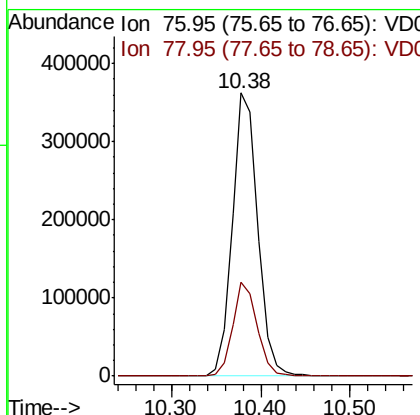
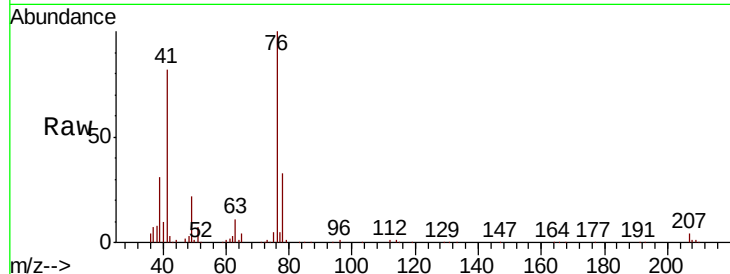
#57
 1,3-Dichloropropane
 Concen: 49.02 ug/l
 RT: 10.38 min Scan# 1032
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 724487
 Ion Ratio Lower Upper
 76 100
 78 33.0 25.8 38.6

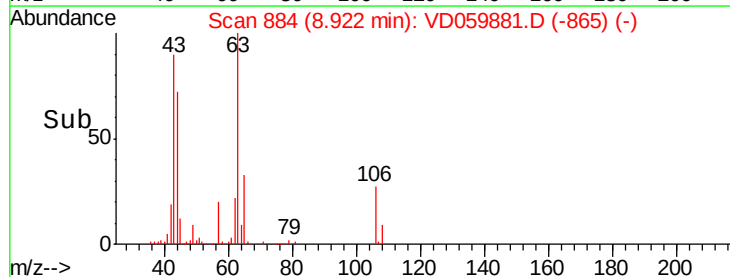
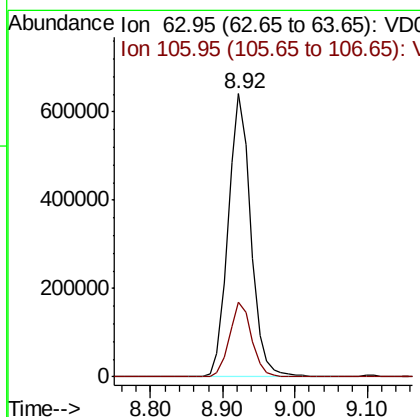
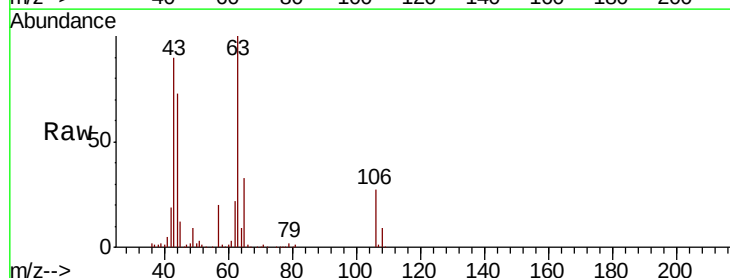
Manual Integrations
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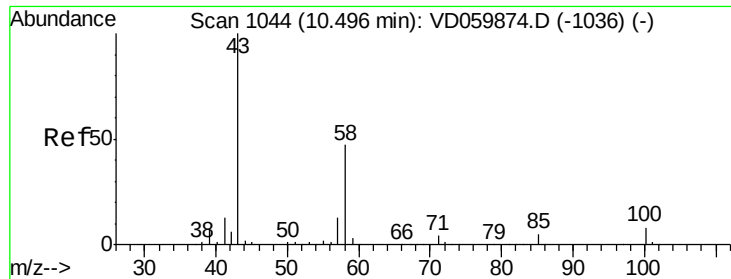
MMDadoda
 8/24/2018 3:08:57 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 247.61 ug/l
 RT: 8.92 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion: 63 Resp: 1399930
 Ion Ratio Lower Upper
 63 100
 106 26.6 20.1 30.1





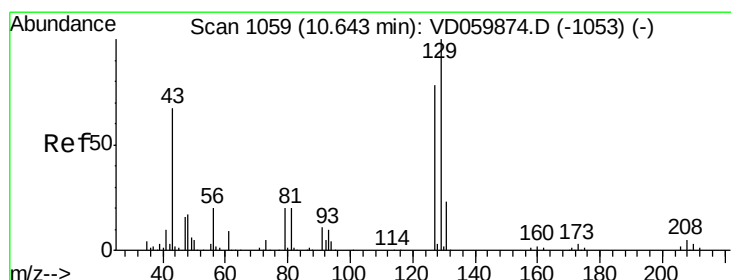
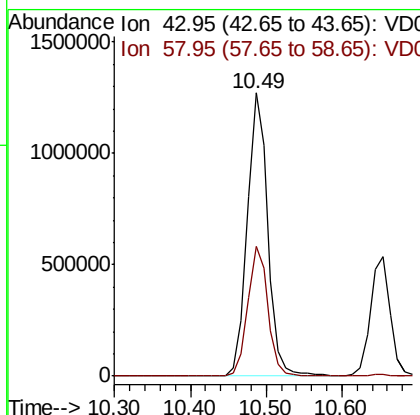
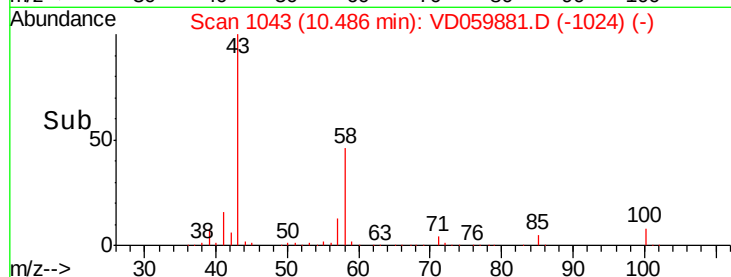
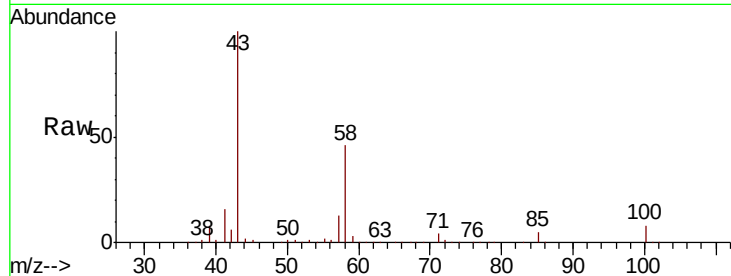
#59
2-Hexanone
Concen: 255.70 ug/l
RT: 10.49 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2385043
Ion Ratio Lower Upper
43 100
58 45.7 23.3 69.8

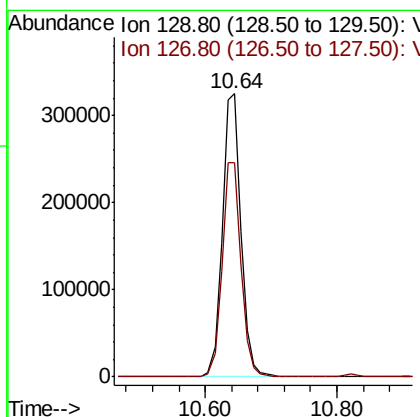
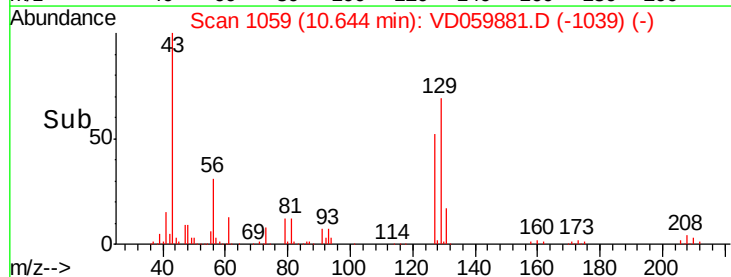
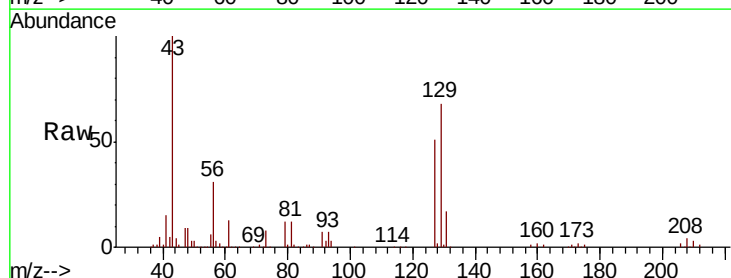
Manual Integrations
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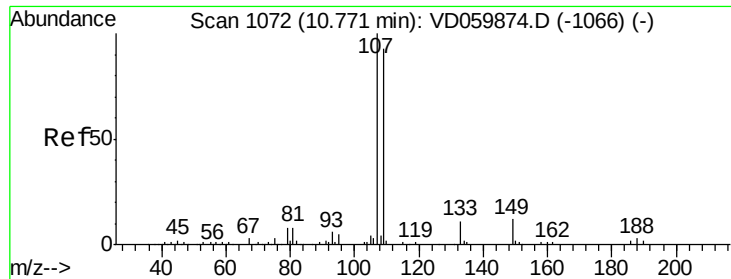
MMDadoda
8/24/2018 3:08:57 PM



#60
Dibromochloromethane
Concen: 49.91 ug/l
RT: 10.64 min Scan# 1059
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion:129 Resp: 640570
Ion Ratio Lower Upper
129 100
127 75.5 39.1 117.2





#61

1,2-Dibromoethane

Concen: 48.58 ug/l

RT: 10.76 min Scan# 1071

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 501660

Ion Ratio Lower Upper

107 100

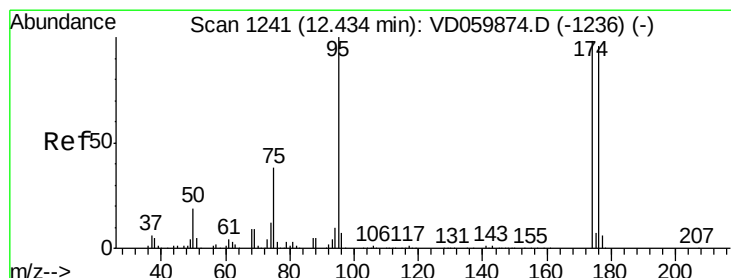
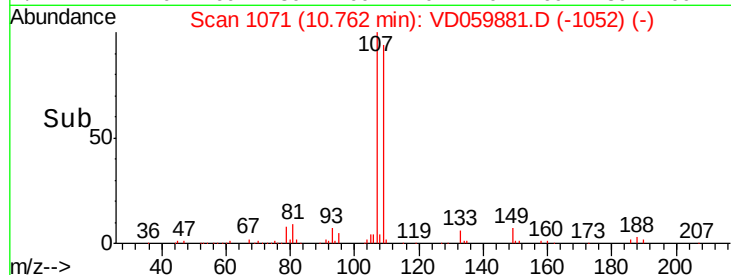
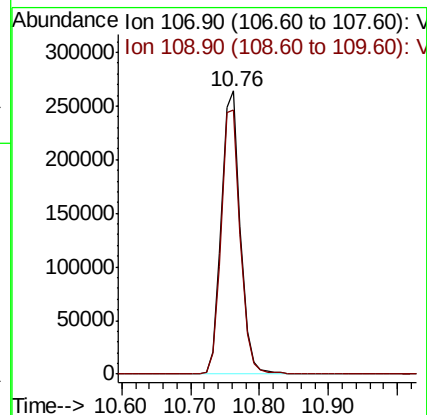
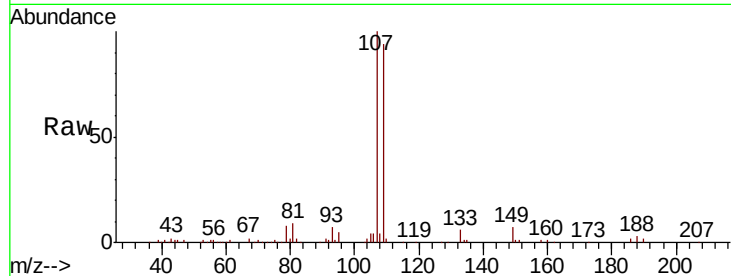
109 93.5 74.6 112.0

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 48.58 ug/l

RT: 12.43 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

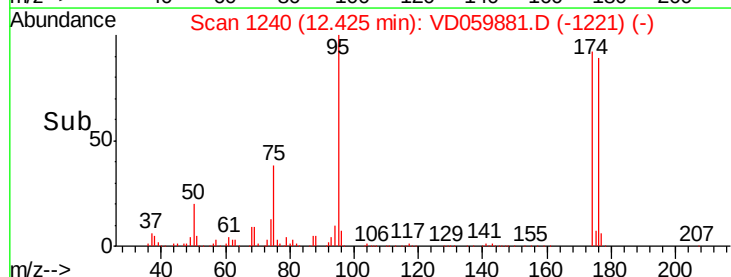
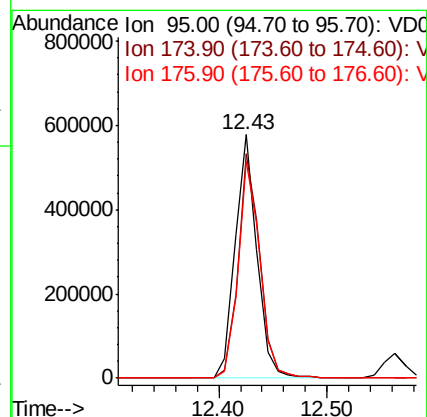
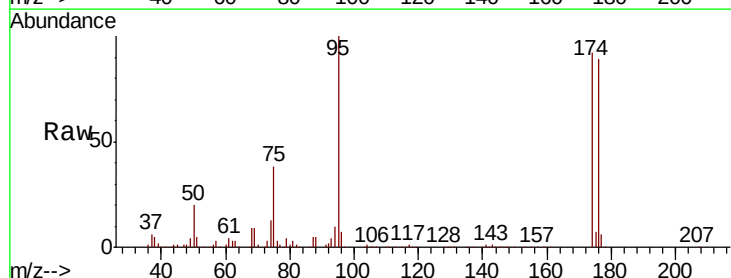
Tgt Ion: 95 Resp: 807470

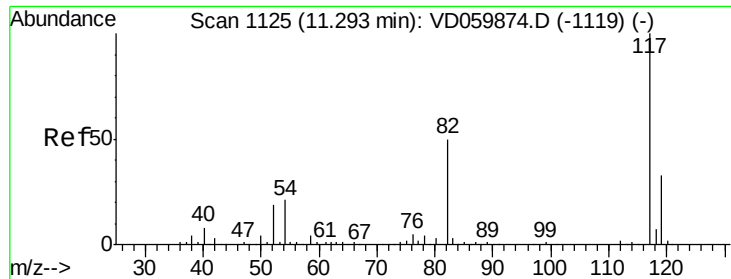
Ion Ratio Lower Upper

95 100

174 92.3 0.0 195.6

176 89.1 0.0 191.2





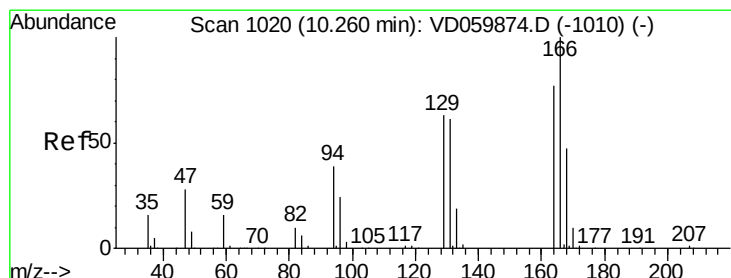
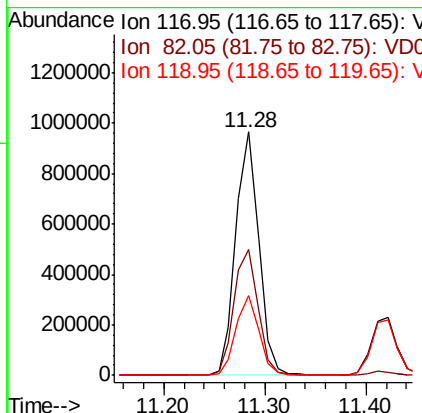
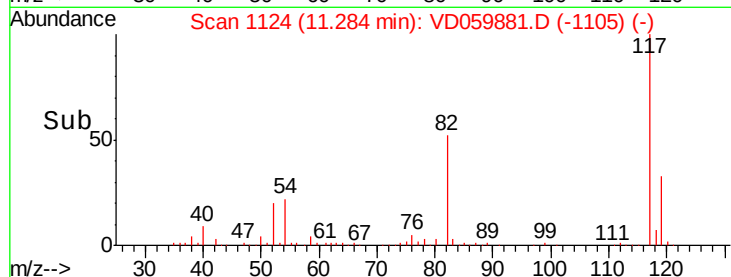
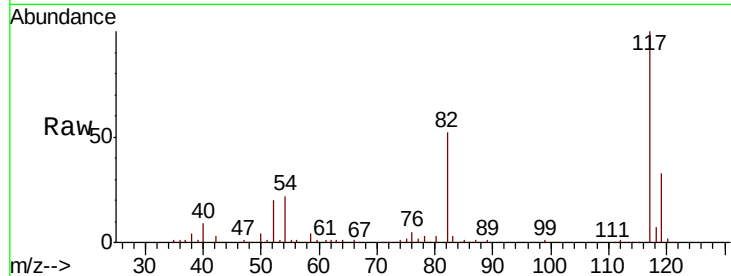
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.28 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1537409
Ion Ratio Lower Upper
117 100
82 51.6 40.1 60.1
119 32.8 26.7 40.1

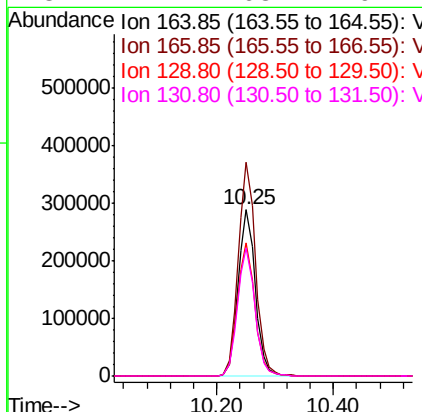
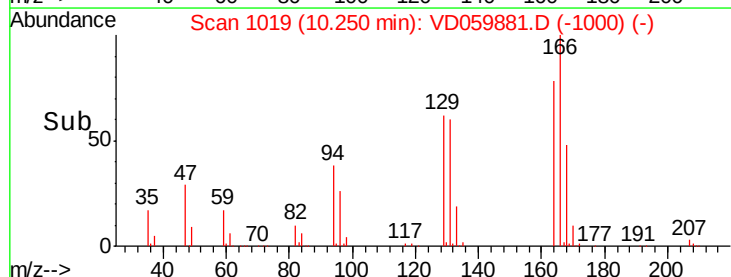
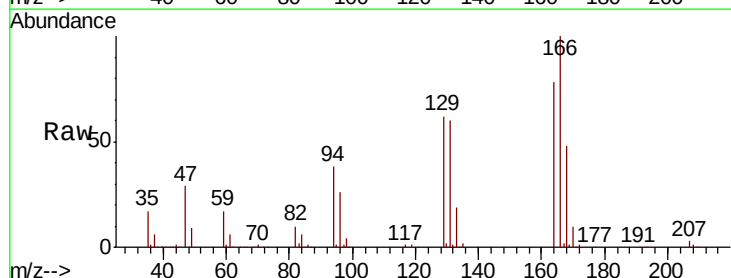
Manual Integrations
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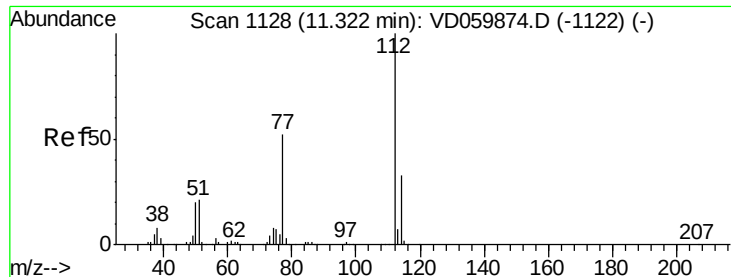
MMDadoda
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#64
Tetrachloroethene
Concen: 49.86 ug/l
RT: 10.25 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion:164 Resp: 592764
Ion Ratio Lower Upper
164 100
166 128.5 103.4 155.2
129 80.3 65.2 97.8
131 77.1 63.1 94.7





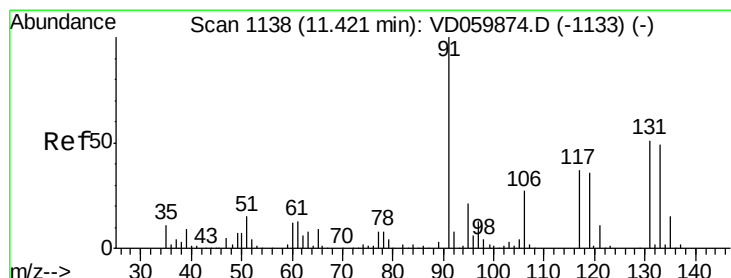
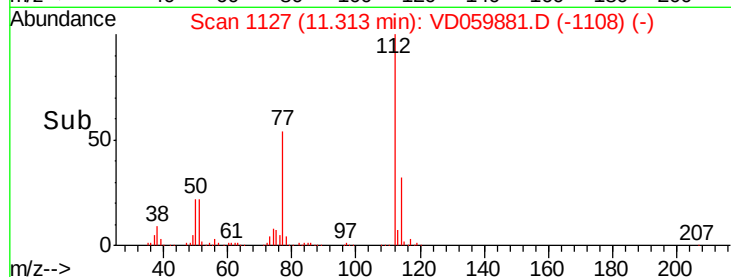
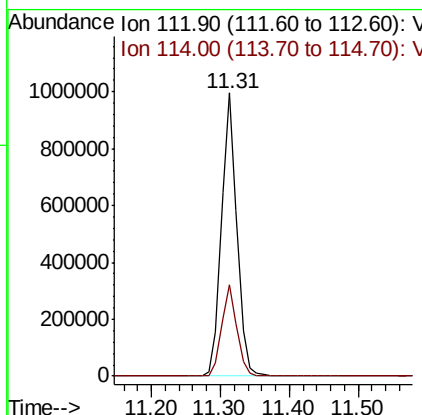
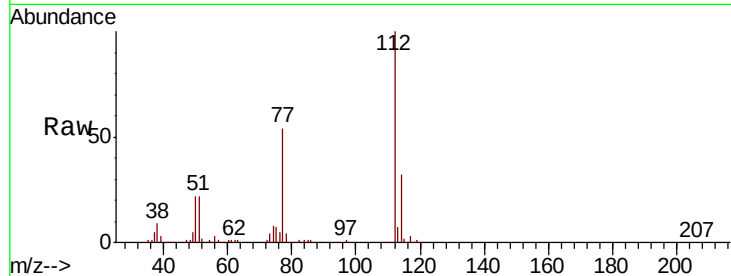
#65
Chlorobenzene
Concen: 50.43 ug/l
RT: 11.31 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1540740
Ion Ratio Lower Upper
112 100
114 32.4 26.4 39.6

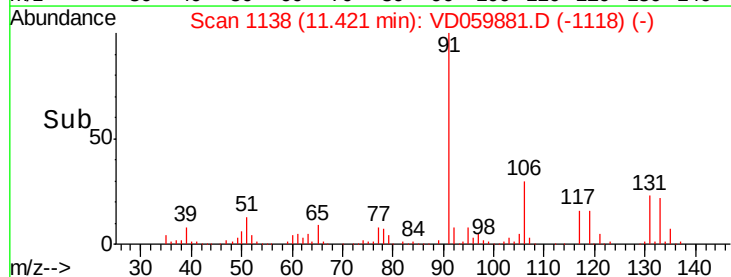
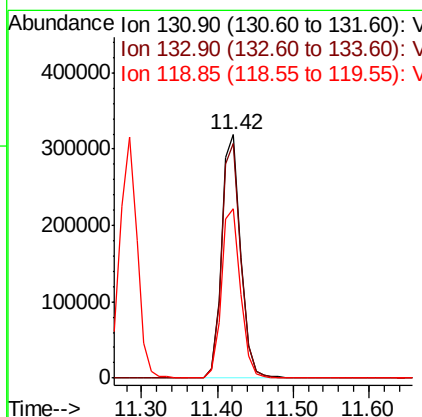
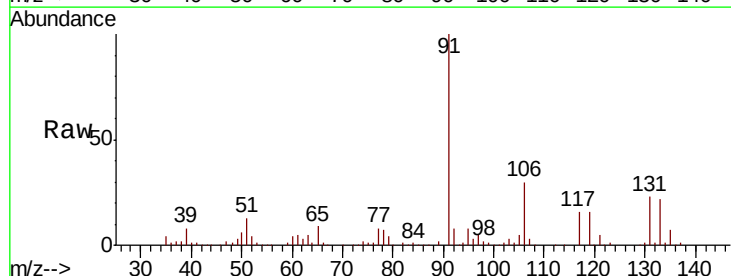
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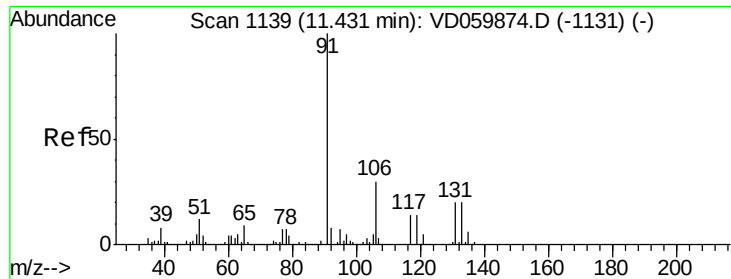
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.00 ug/l
RT: 11.42 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion:131 Resp: 558069
Ion Ratio Lower Upper
131 100
133 96.3 48.3 144.8
119 69.5 35.4 106.3





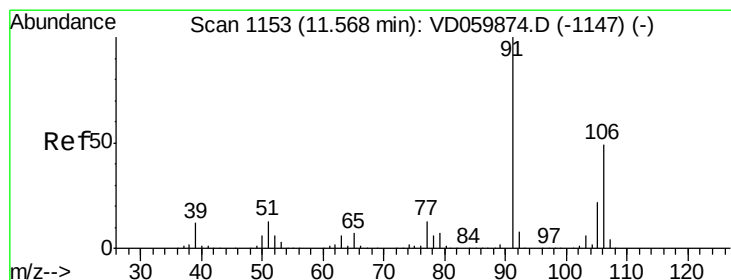
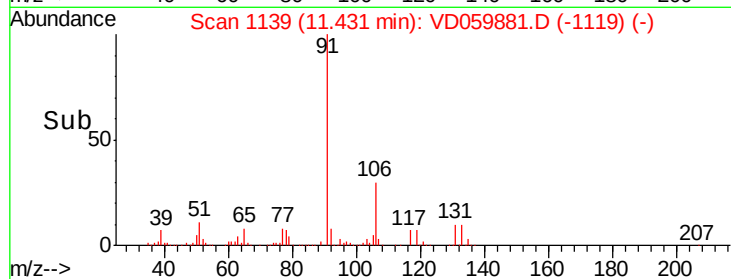
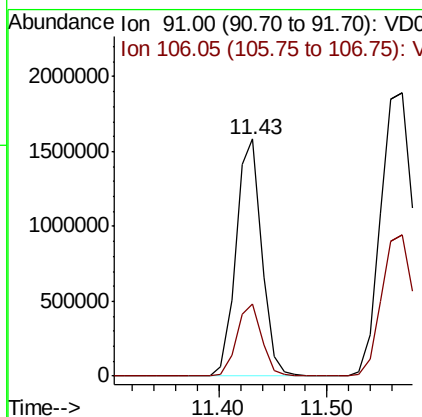
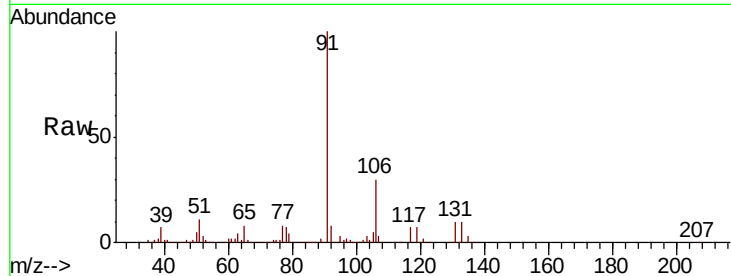
#67
Ethyl Benzene
Concen: 50.77 ug/l
RT: 11.43 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2609224
Ion Ratio Lower Upper
91 100
106 30.4 23.8 35.8

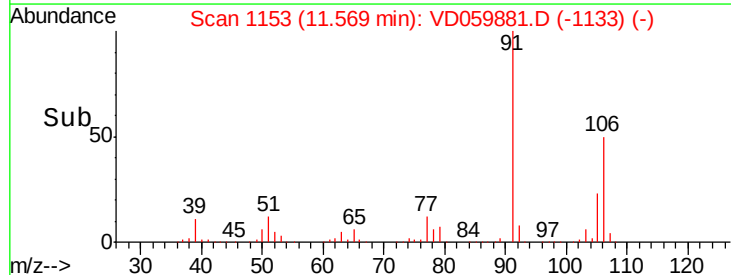
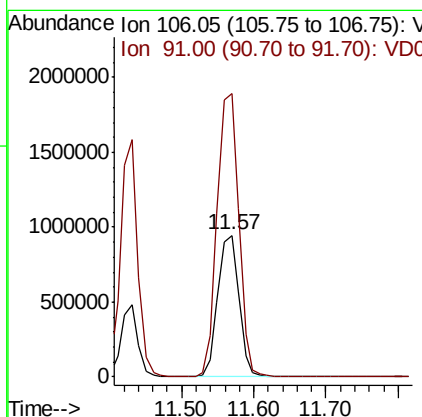
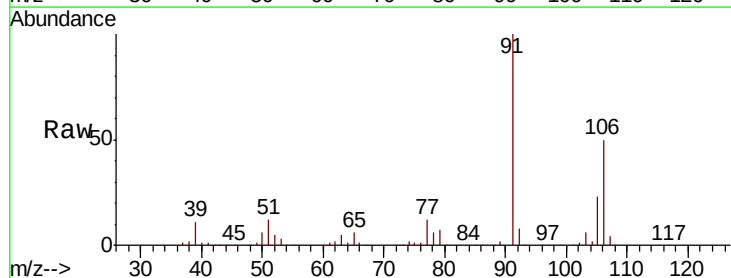
Manual Integrations
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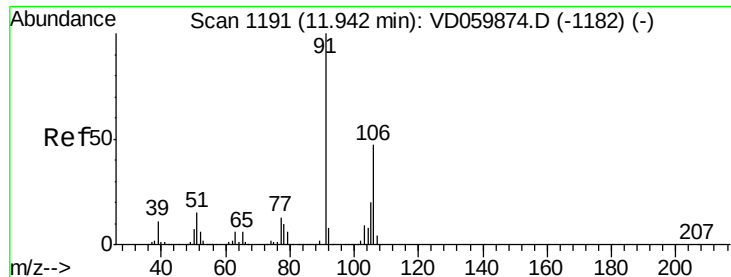
MMDadoda
8/24/2018 3:08:57 PM



#68
m/p-Xylenes
Concen: 101.60 ug/l
RT: 11.57 min Scan# 1153
Delta R.T. 0.00 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion:106 Resp: 1901257
Ion Ratio Lower Upper
106 100
91 200.1 162.0 243.0





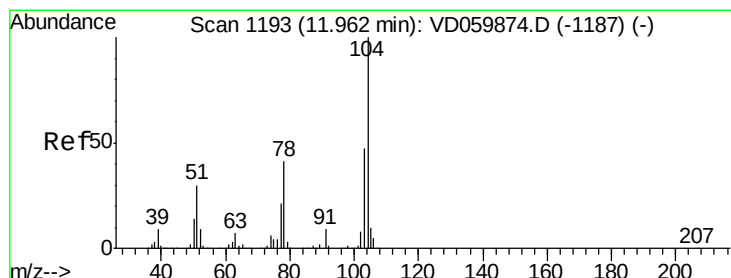
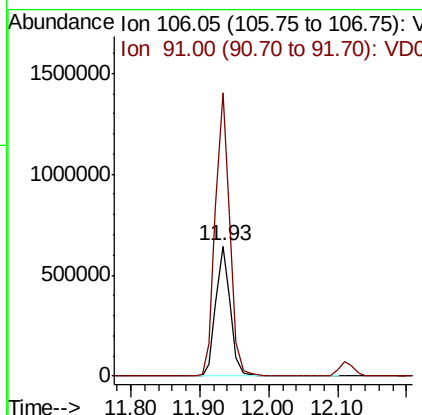
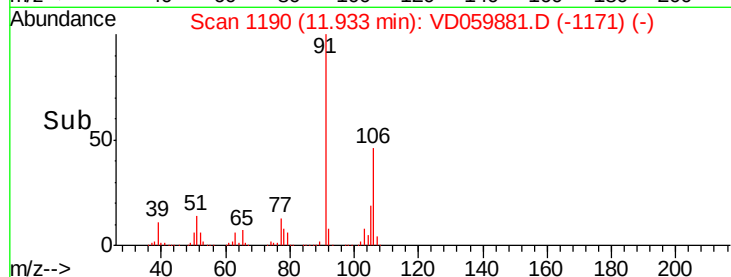
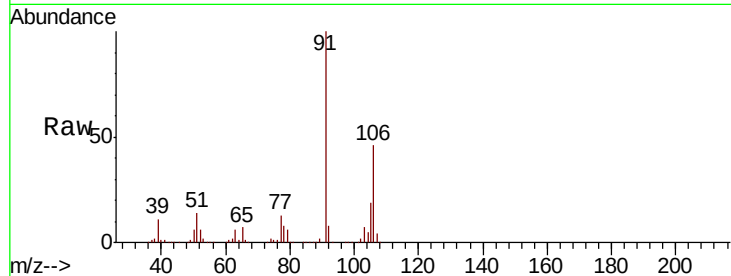
#69
o-Xylene
Concen: 50.97 ug/l
RT: 11.93 min Scan# 1190
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	217.2	107.3	322.0

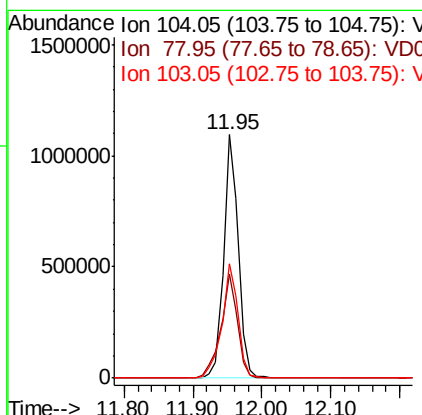
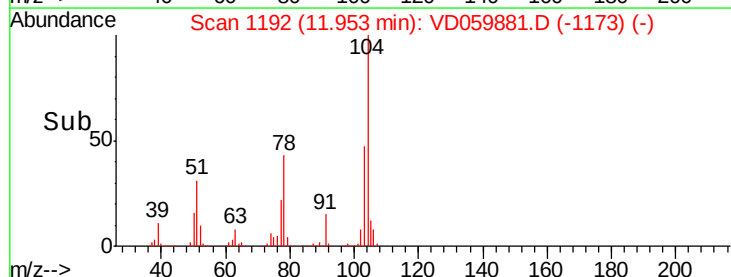
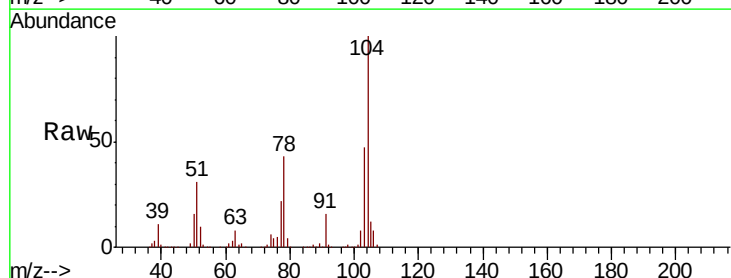
Manual Integrations
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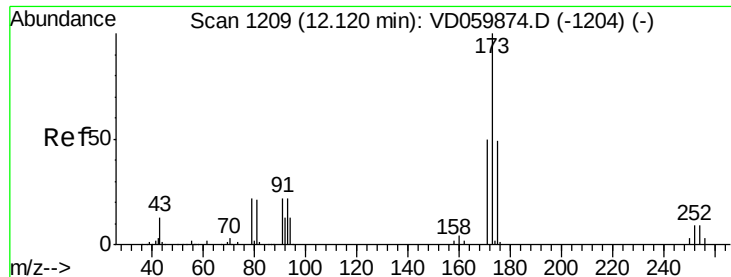
MMDadoda
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#70
Styrene
Concen: 50.72 ug/l
RT: 11.95 min Scan# 1192
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.9	32.6	49.0
103	47.1	37.7	56.5





#71

Bromoform

Concen: 50.13 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

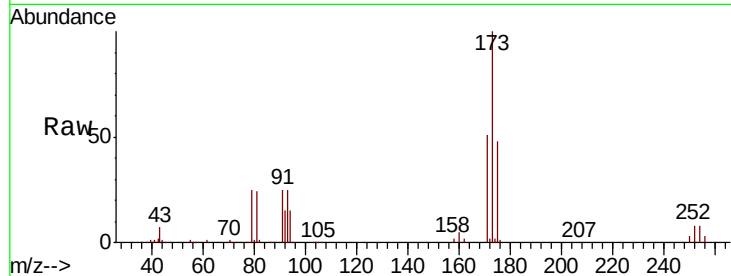
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	73.0
254	8.0	7.0	10.6

Manual Integrations
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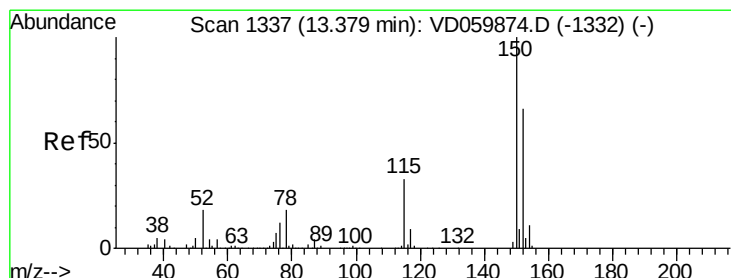
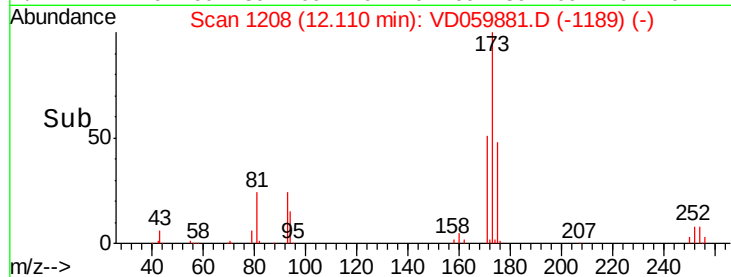
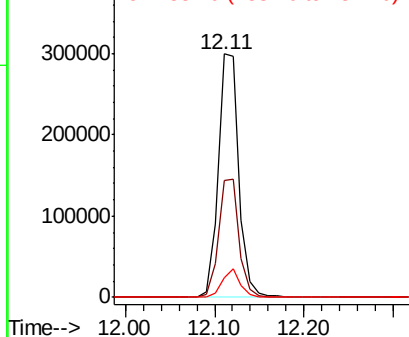


Abundance

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: 50.00 ug/l

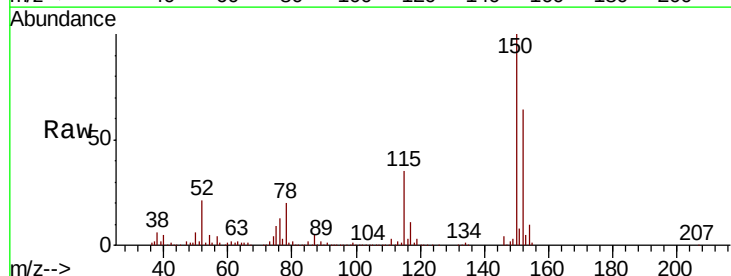
RT: 13.37 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	25.7	77.0
150	156.0	0.0	310.2

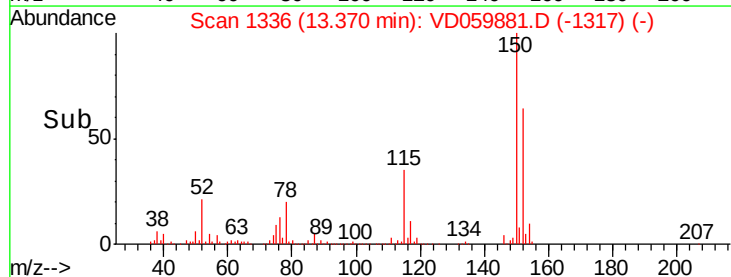
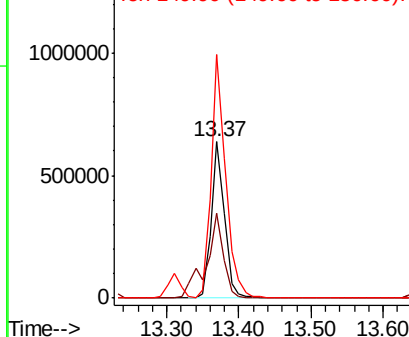


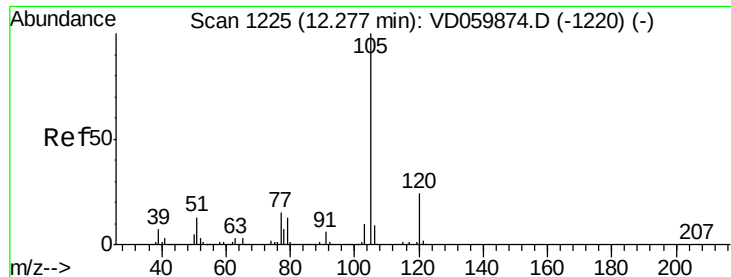
Abundance

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: 50.35 ug/l

RT: 12.28 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2569648

Ion Ratio Lower Upper

105 100

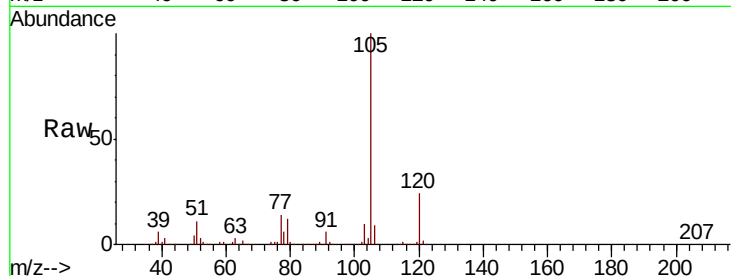
120 24.3 11.8 35.4

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.28

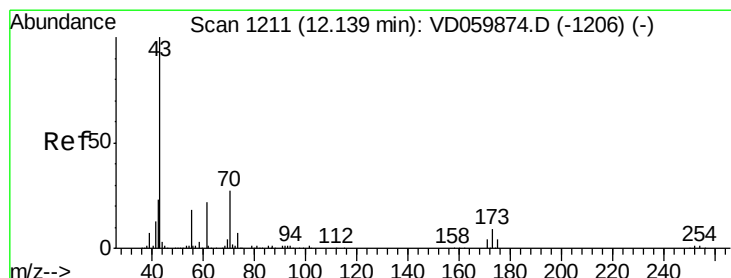
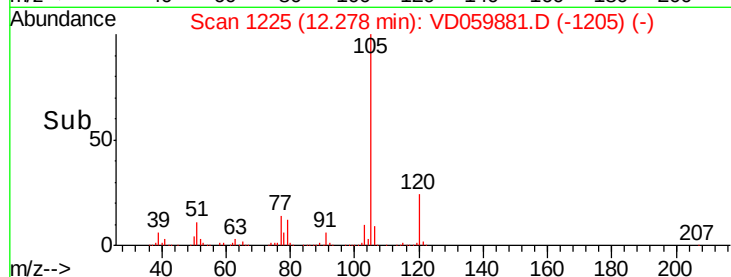
1500000

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 48.63 ug/l

RT: 12.13 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Tgt Ion: 43 Resp: 1086751

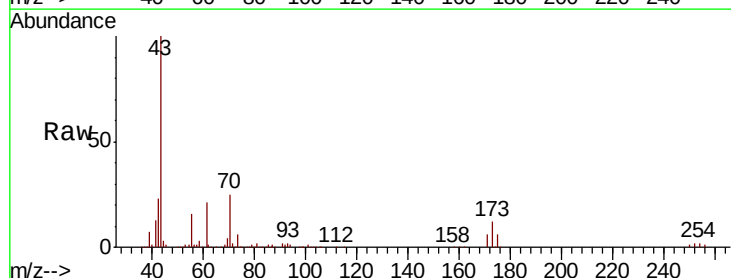
Ion Ratio Lower Upper

43 100

70 25.3 21.4 32.2

55 16.2 14.1 21.1

61 20.8 17.8 26.8



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

12.13

1200000

1000000

800000

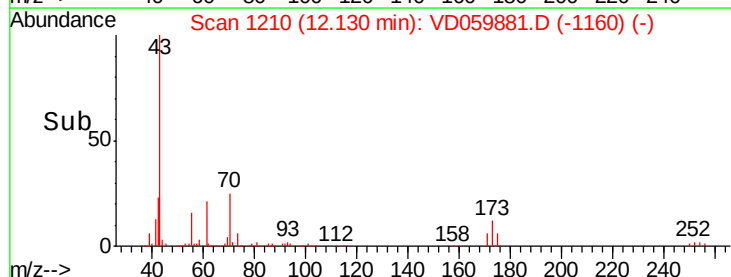
600000

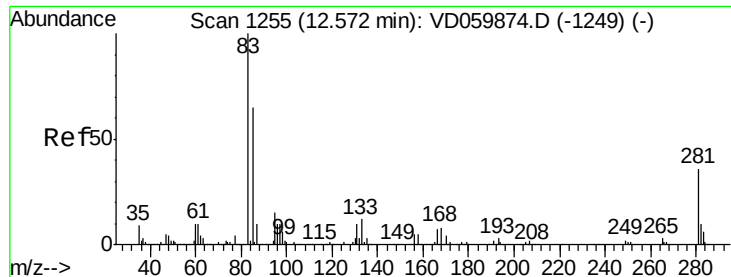
400000

200000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.23 ug/l

RT: 12.56 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 569343

Ion Ratio Lower Upper

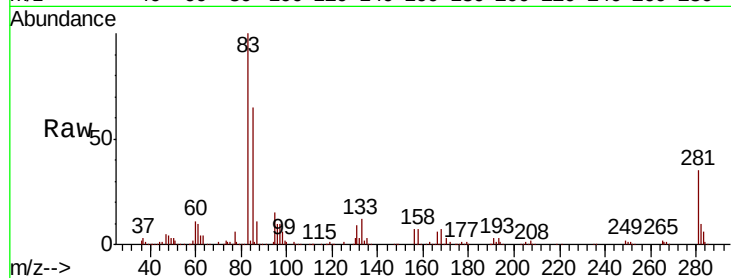
83 100

131 9.5 4.8 14.4

85 65.4 32.6 97.8

Manual Integrations
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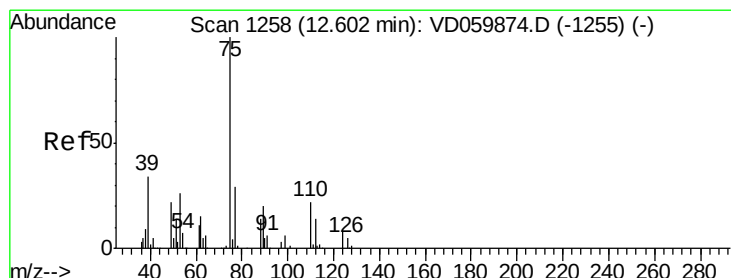
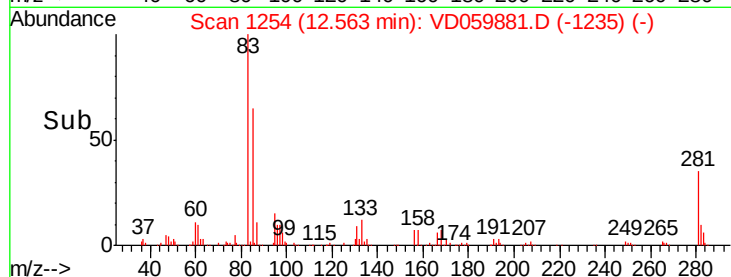
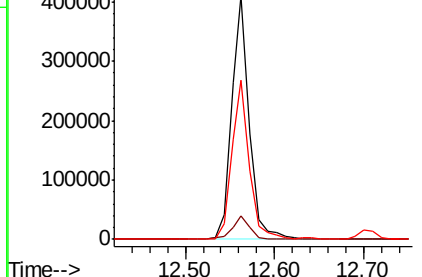
MMDadoda
8/24/2018 3:08:57 PM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 48.62 ug/l

RT: 12.59 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VD059881.D

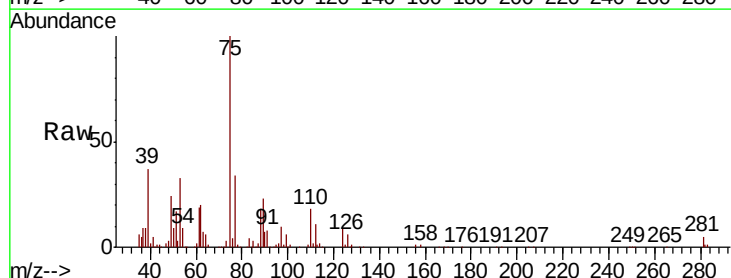
Acq: 23 Aug 2018 11:01

Tgt Ion: 75 Resp: 604153

Ion Ratio Lower Upper

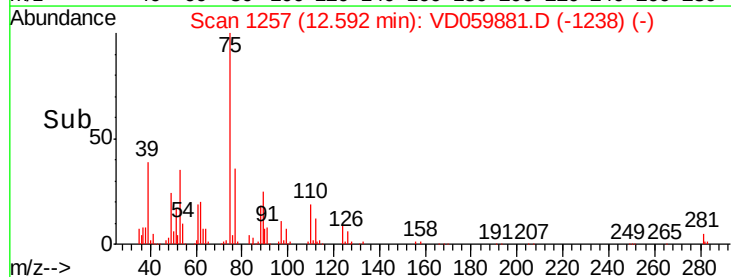
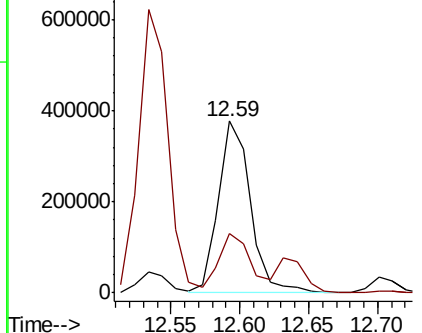
75 100

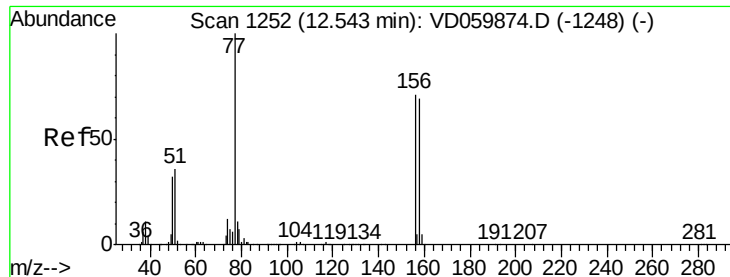
77 34.3 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 50.51 ug/l

RT: 12.54 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 156 Resp: 714778

Ion Ratio Lower Upper

156 100

77 111.2 70.2 210.4

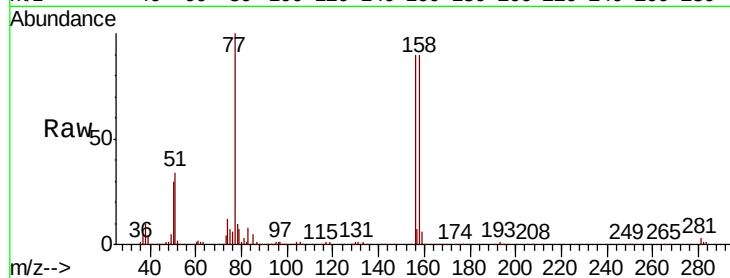
158 99.7 48.4 145.2

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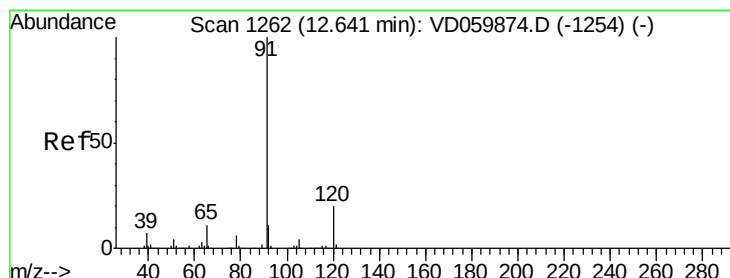
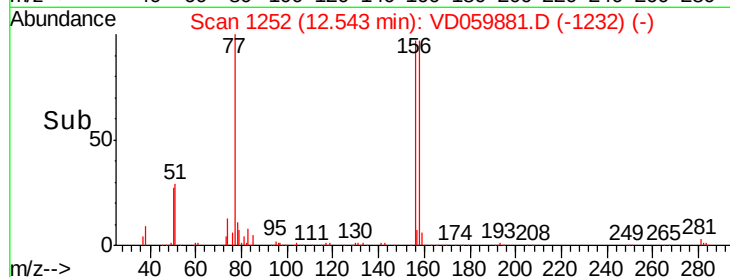
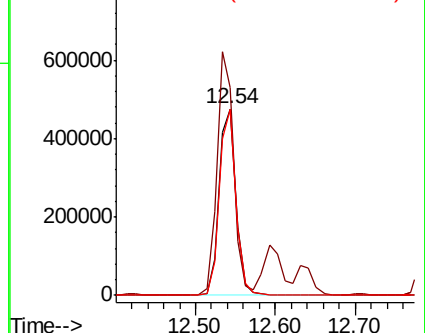
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 49.80 ug/l

RT: 12.63 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VD059881.D

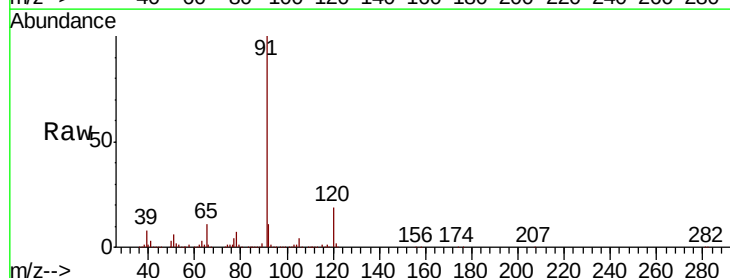
Acq: 23 Aug 2018 11:01

Tgt Ion: 91 Resp: 3218418

Ion Ratio Lower Upper

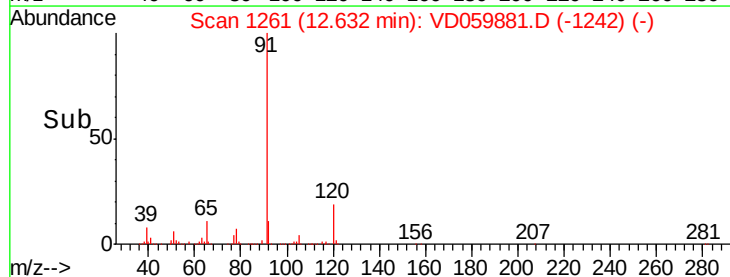
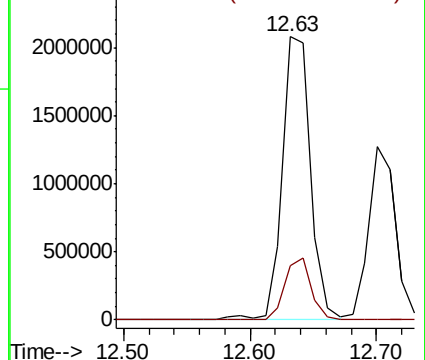
91 100

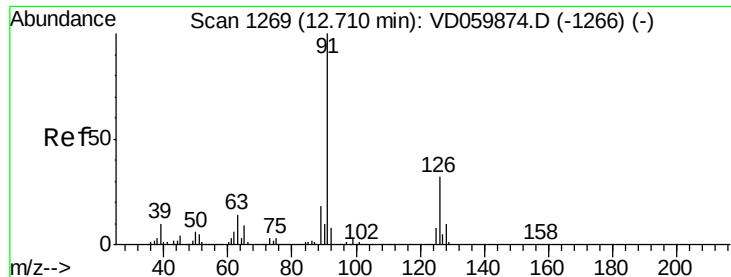
120 19.0 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 51.05 ug/l

RT: 12.70 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VD059881.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1865760

Ion Ratio Lower Upper

91 100

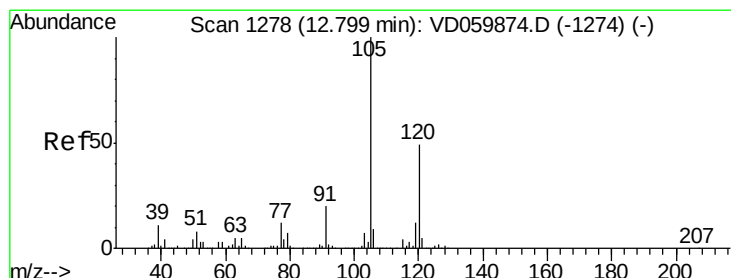
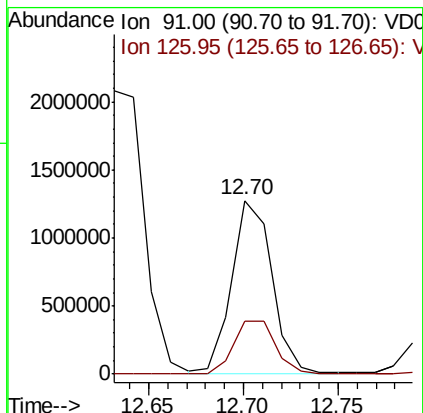
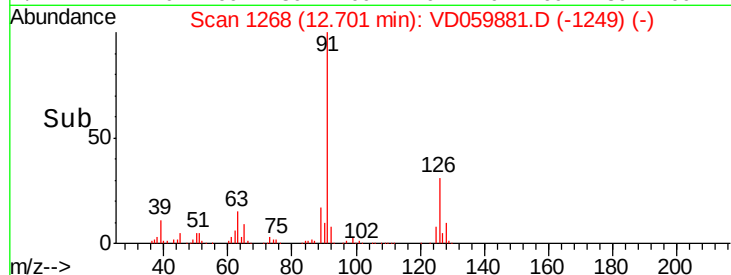
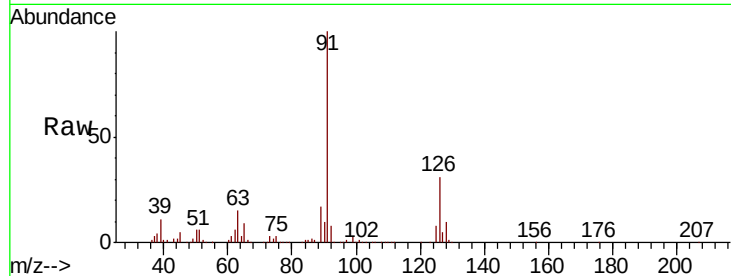
126 30.8 16.1 48.2

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#80

1,3,5-Trimethylbenzene

Concen: 48.31 ug/l

RT: 12.79 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VD059881.D

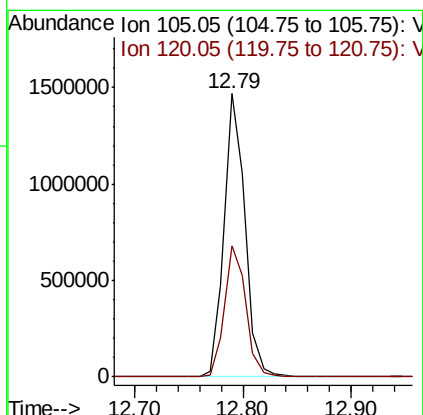
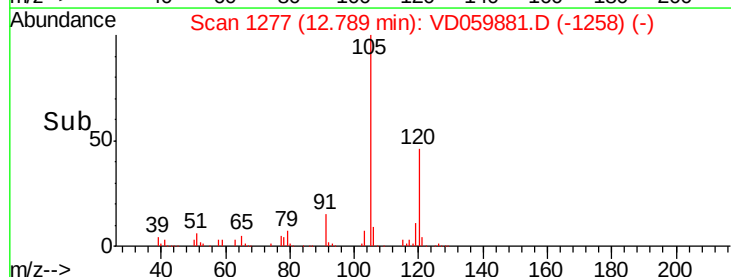
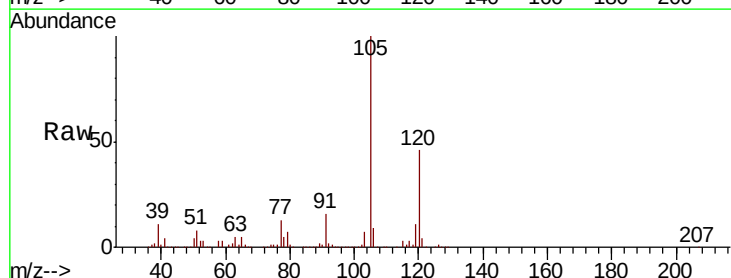
Acq: 23 Aug 2018 11:01

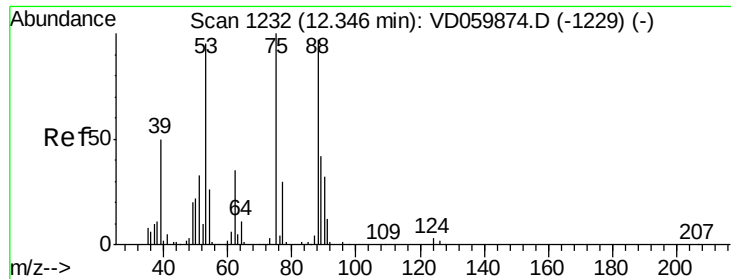
Tgt Ion:105 Resp: 1960297

Ion Ratio Lower Upper

105 100

120 46.1 24.5 73.5





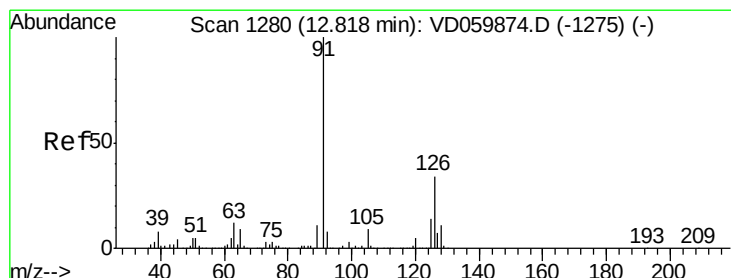
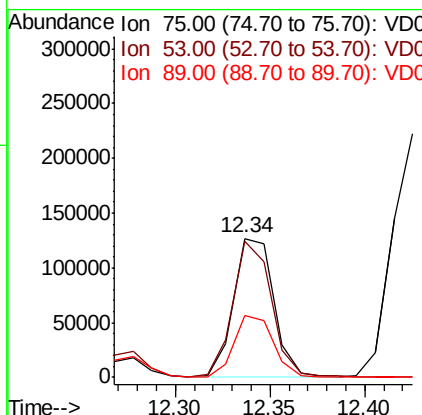
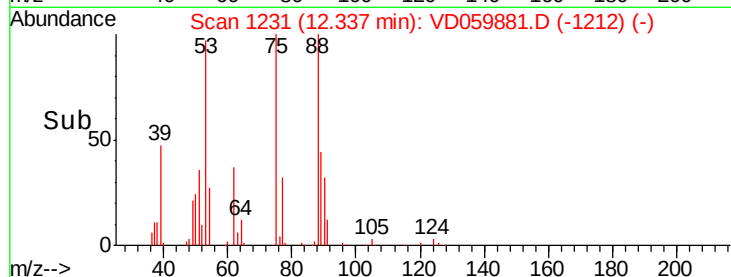
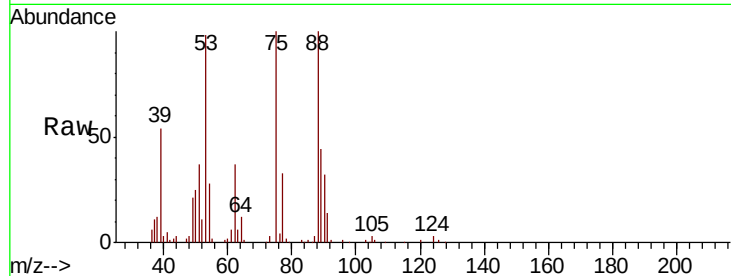
#81
trans-1,4-Dichloro-2-butene
Concen: 48.23 ug/l
RT: 12.34 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.8	75.8	113.6
89	44.0	33.6	50.4

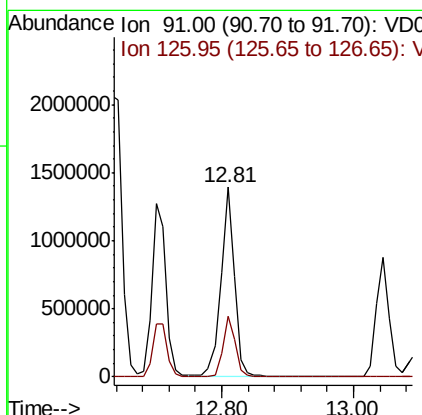
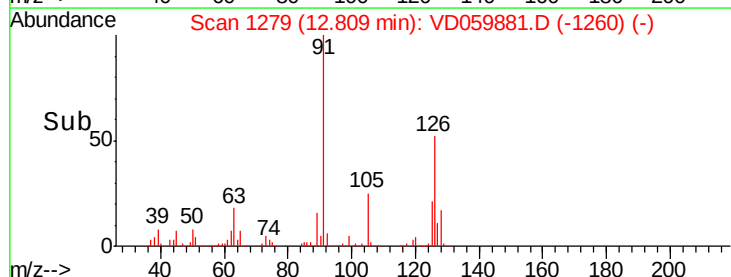
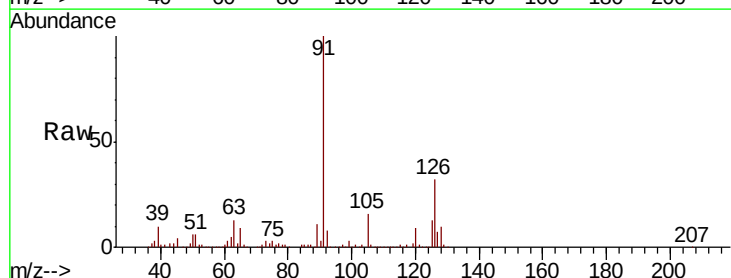
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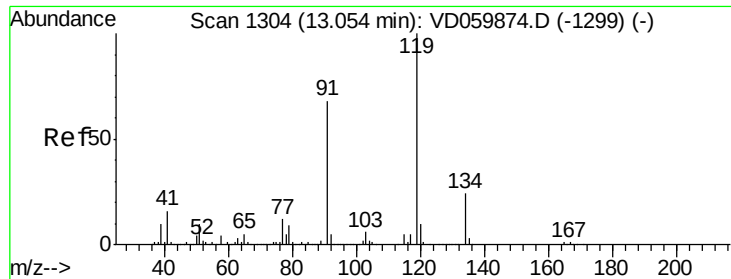
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#82
4-Chlorotoluene
Concen: 47.76 ug/l
RT: 12.81 min Scan# 1279
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	17.1	51.2





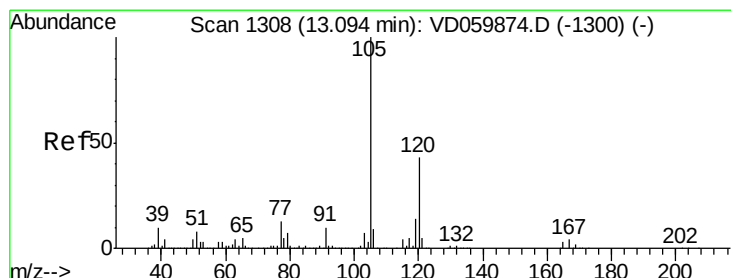
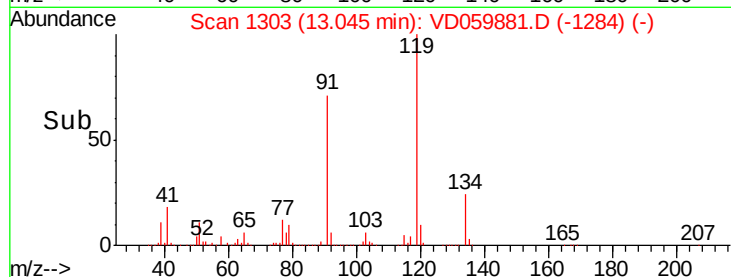
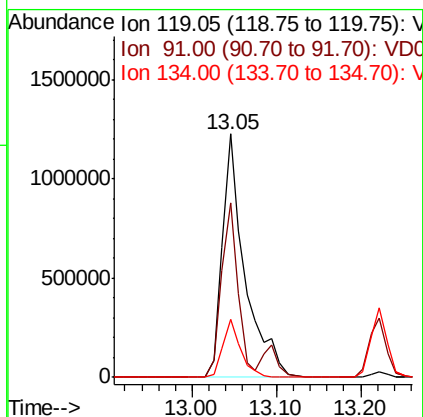
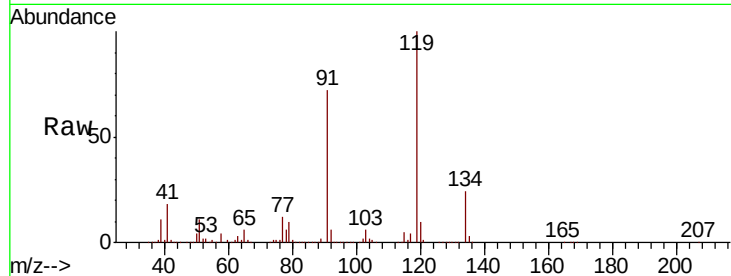
#83
 tert-Butylbenzene
 Concen: 49.46 ug/l
 RT: 13.05 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 2286250
 Ion Ratio Lower Upper
 119 100
 91 71.8 34.3 102.9
 134 23.9 11.9 35.9

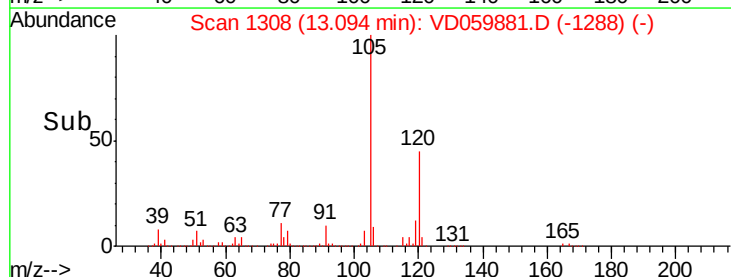
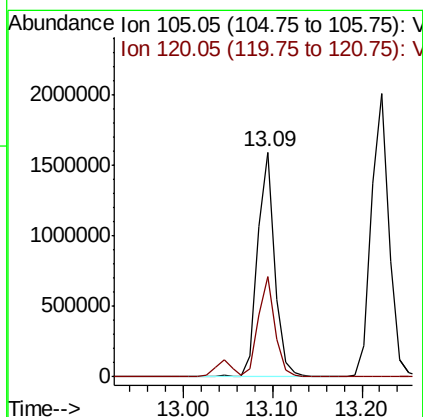
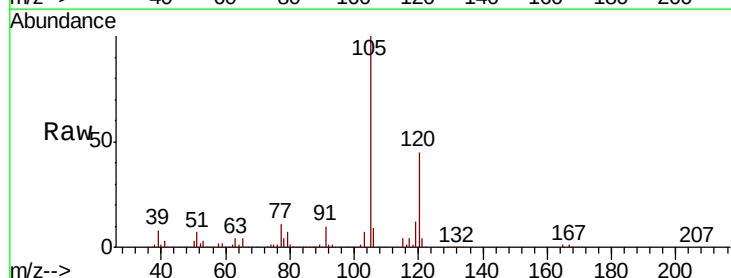
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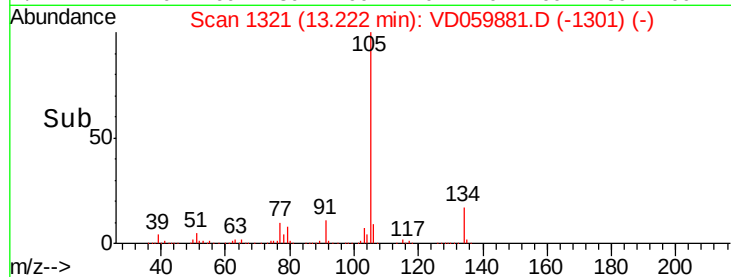
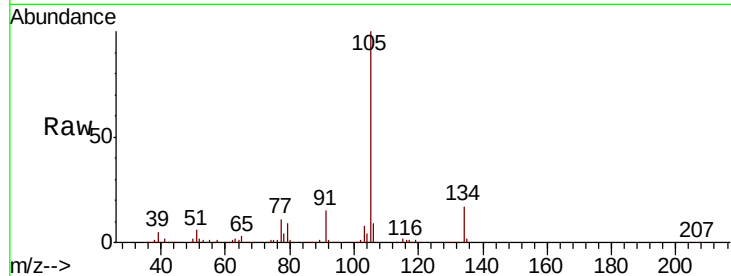
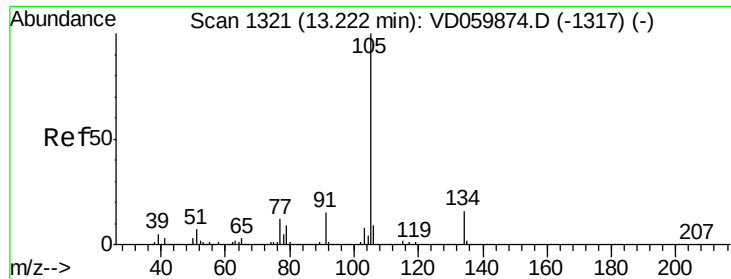
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.27 ug/l
 RT: 13.09 min Scan# 1308
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion:105 Resp: 2083771
 Ion Ratio Lower Upper
 105 100
 120 44.6 21.8 65.3





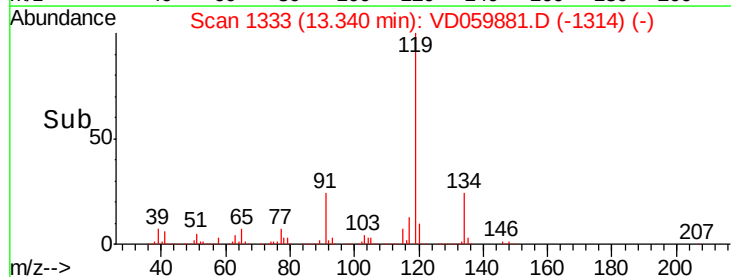
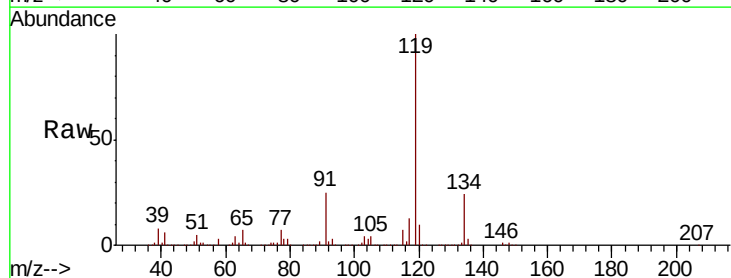
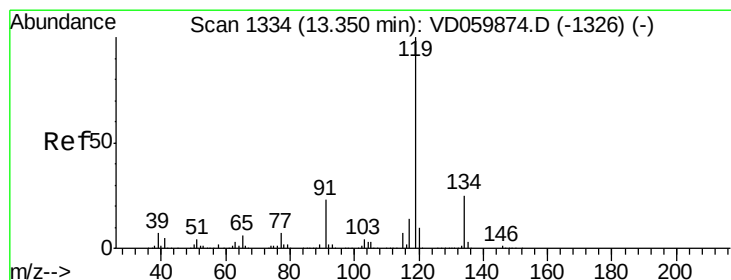
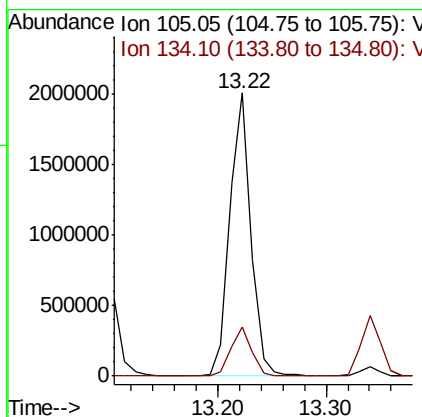
#85
 sec-Butylbenzene
 Concen: 49.87 ug/l
 RT: 13.22 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tot Ion:105 Resp: 2710793
 Ion Ratio Lower Upper
 105 100
 134 17.3 8.2 24.4

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

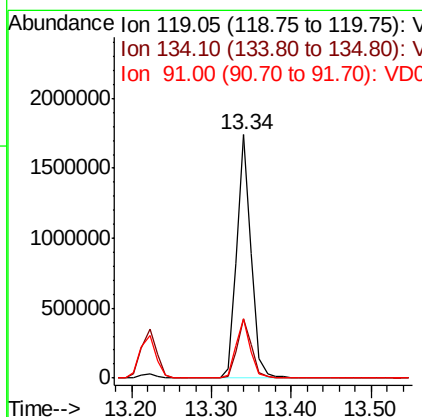
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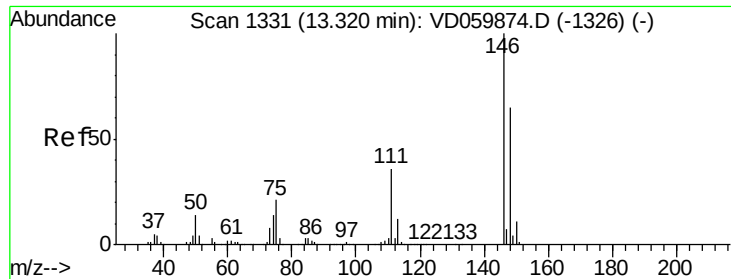
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 49.85 ug/l
 RT: 13.34 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion:119 Resp: 2203549
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.7 38.1
 91 24.6 11.7 35.0





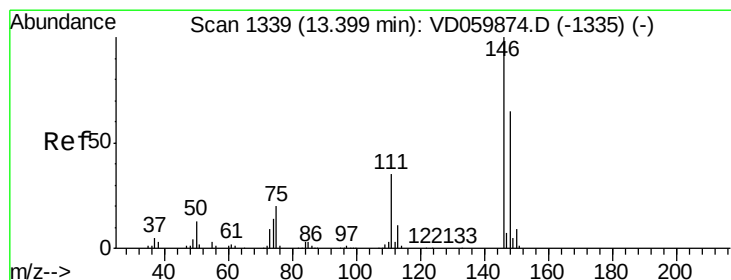
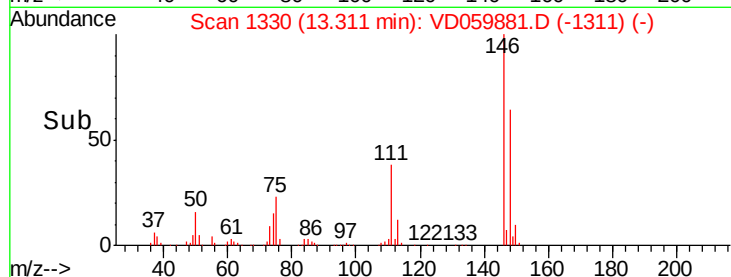
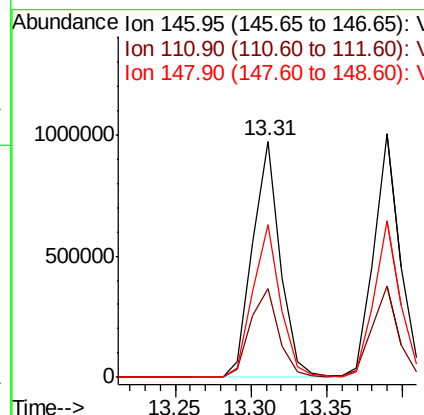
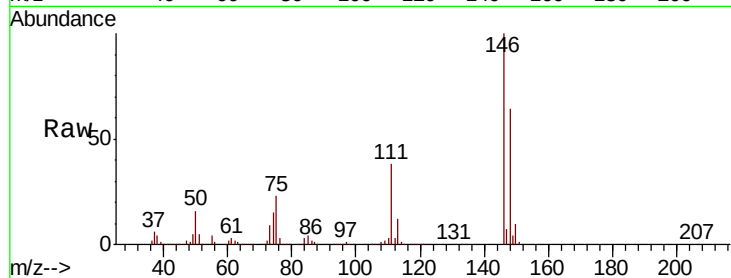
#87
 1,3-Dichlorobenzene
 Concen: 49.24 ug/l
 RT: 13.31 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	17.9	53.7
148	64.5	32.4	97.0

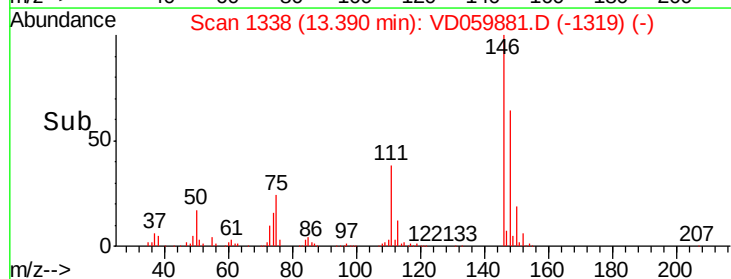
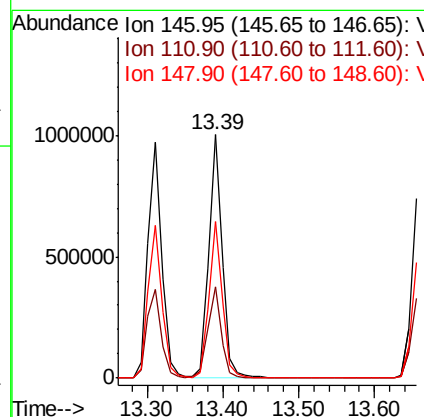
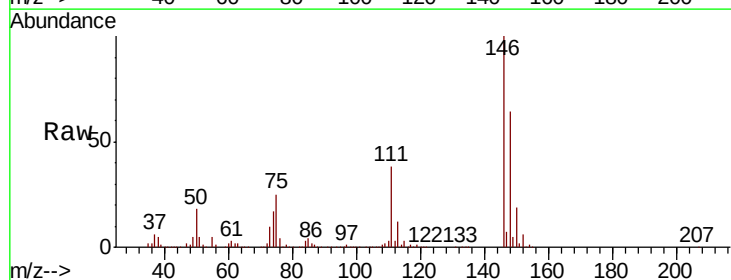
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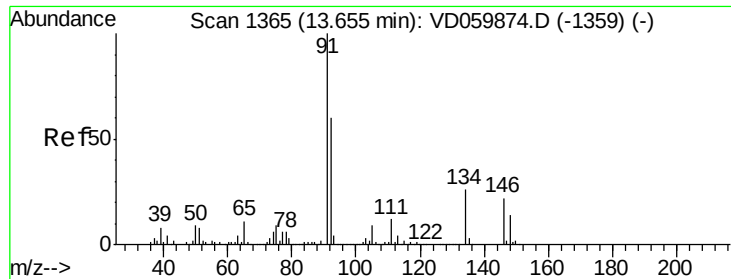
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#88
 1,4-Dichlorobenzene
 Concen: 48.94 ug/l
 RT: 13.39 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	17.5	52.6
148	64.2	32.5	97.5





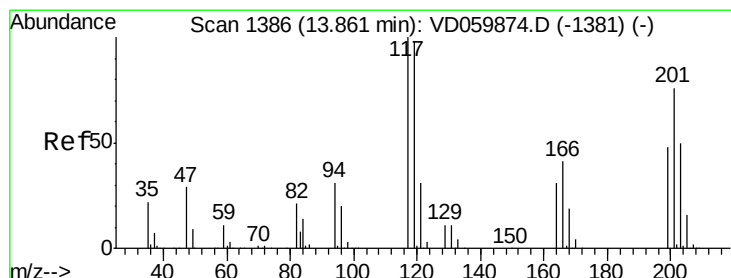
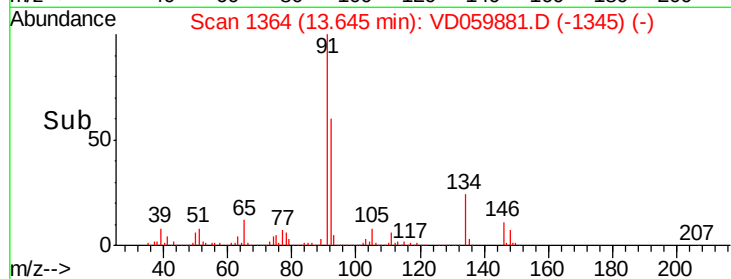
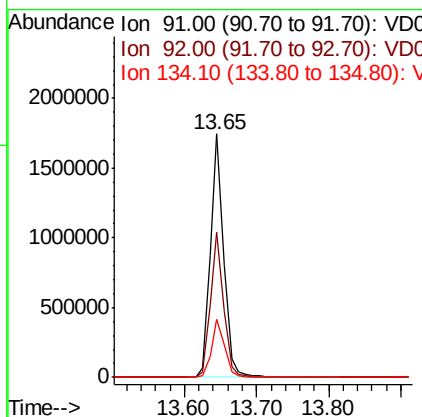
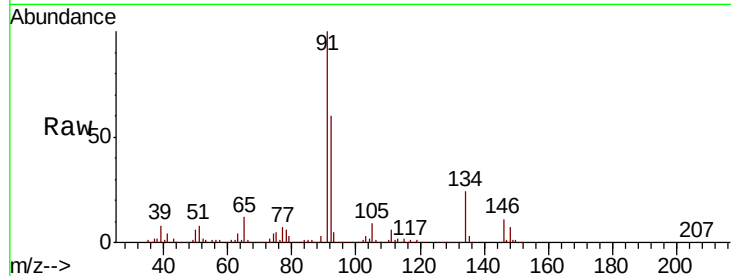
#89
n-Butylbenzene
Concen: 52.75 ug/l
RT: 13.65 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.8	30.0	90.1
134	23.8	12.8	38.4

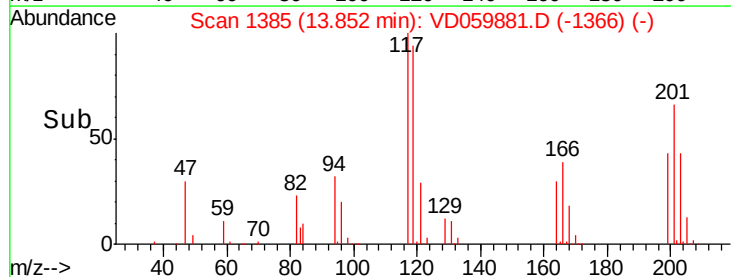
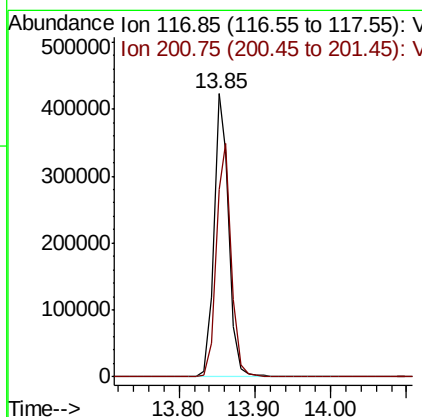
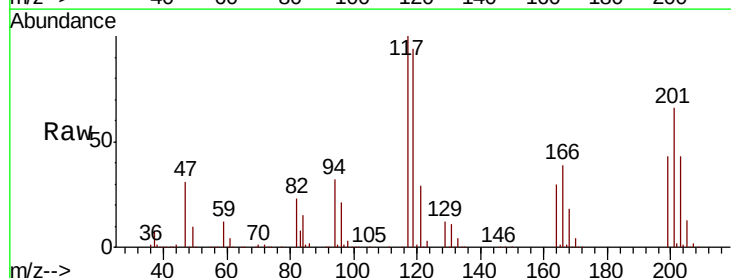
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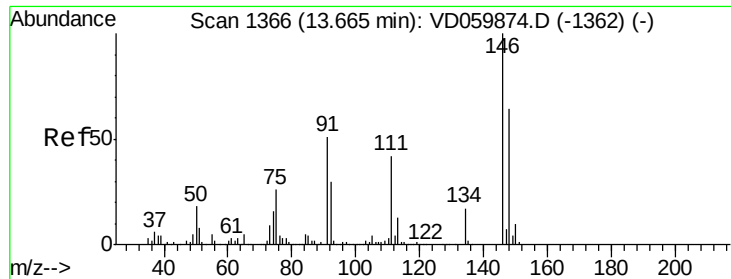
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#90
Hexachloroethane
Concen: 49.41 ug/l
RT: 13.85 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.2	38.1	114.5





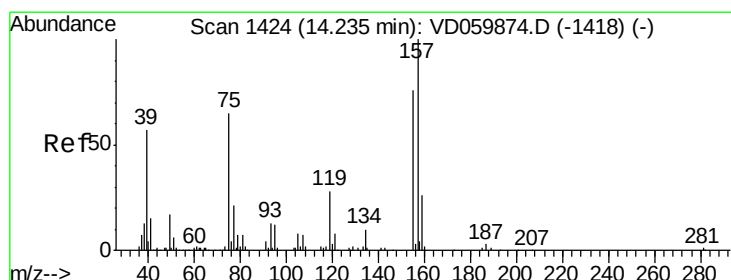
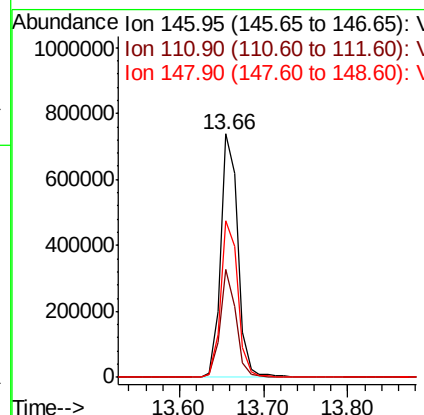
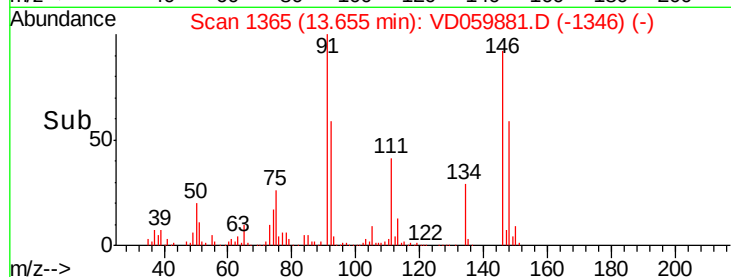
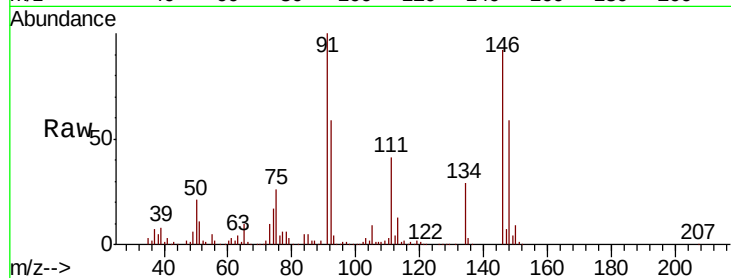
#91
 1,2-Dichlorobenzene
 Concen: 48.37 ug/l
 RT: 13.66 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1039023
 Ion Ratio Lower Upper
 146 100
 111 44.6 21.1 63.1
 148 64.3 32.2 96.6

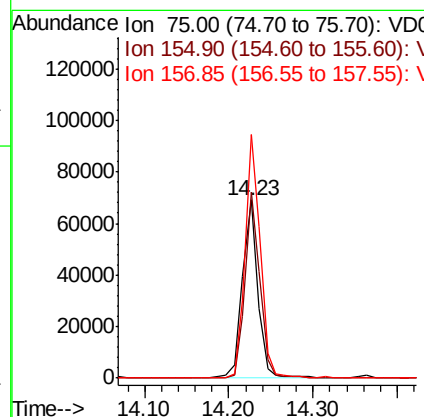
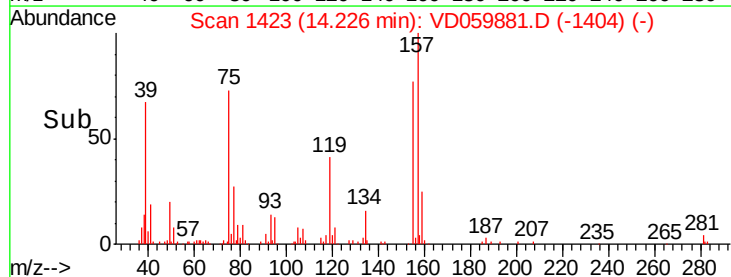
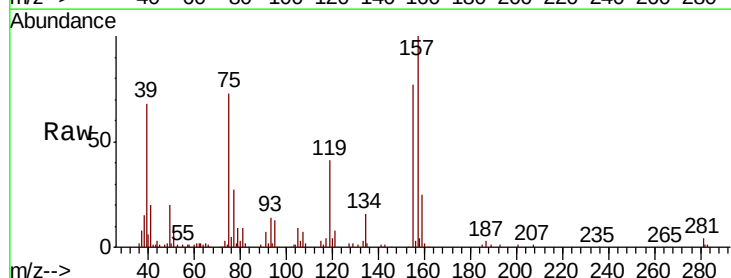
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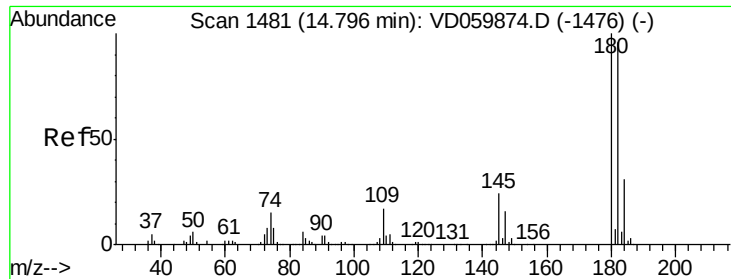
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.34 ug/l
 RT: 14.23 min Scan# 1423
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion: 75 Resp: 89547
 Ion Ratio Lower Upper
 75 100
 155 104.6 58.2 174.6
 157 136.6 76.8 230.4





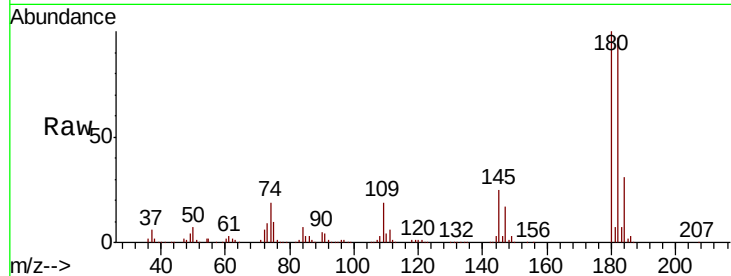
#93
 1,2,4-Trichlorobenzene
 Concen: 48.57 ug/l
 RT: 14.79 min Scan# 1480
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.7
145	25.4	12.2	36.4

Manual Integrations
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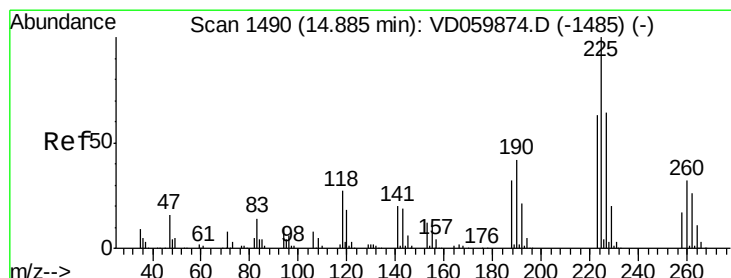
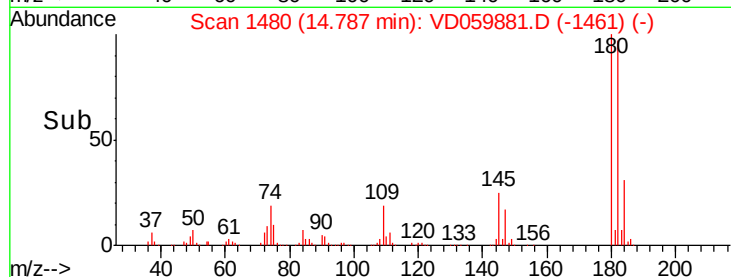
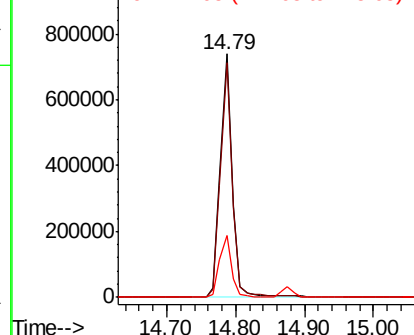


Abundance

Ion 179.85 (179.55 to 180.55): V

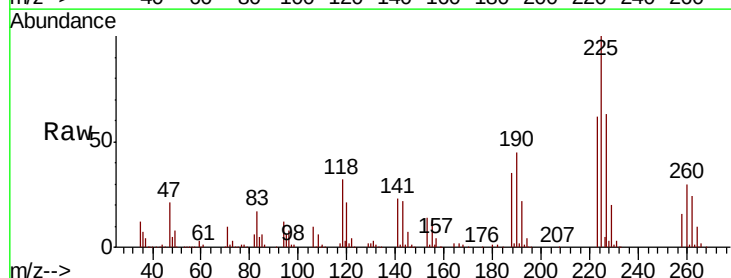
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94
 Hexachlorobutadiene
 Concen: 51.57 ug/l
 RT: 14.88 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VD059881.D
 Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.6	94.8
227	63.3	32.0	96.0

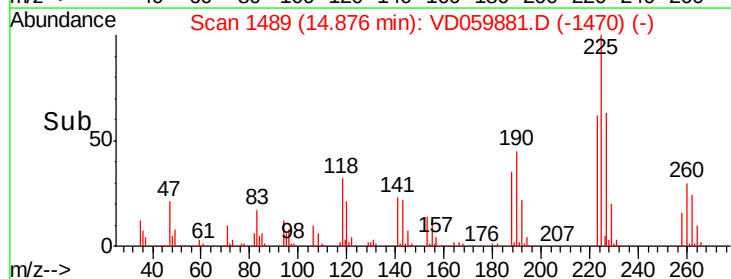
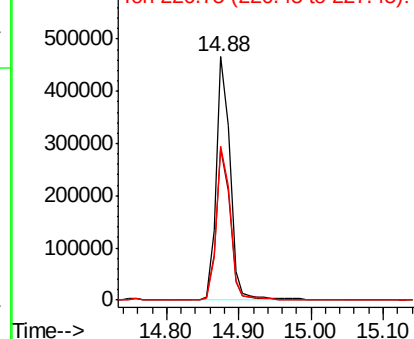


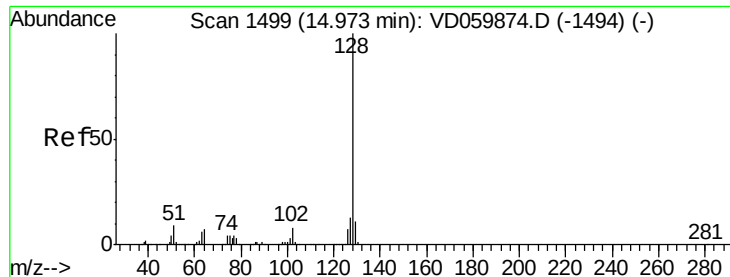
Abundance

Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V





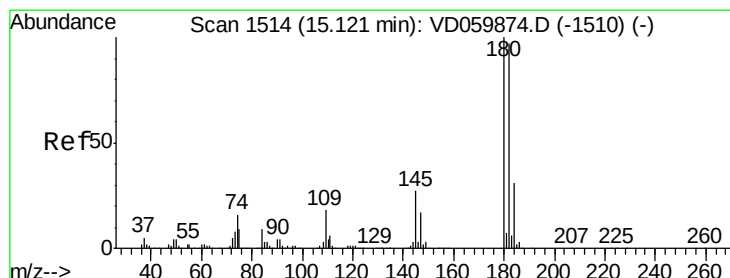
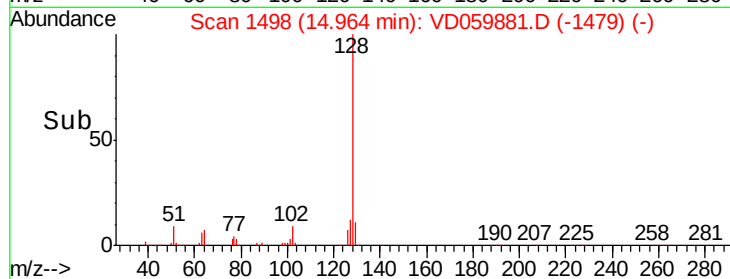
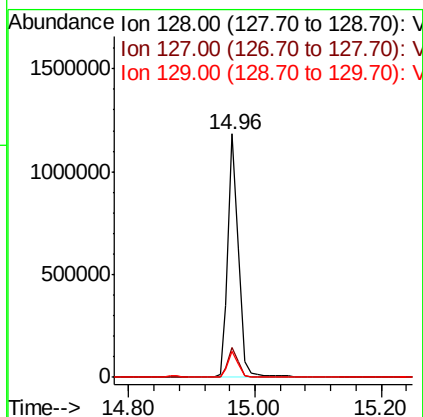
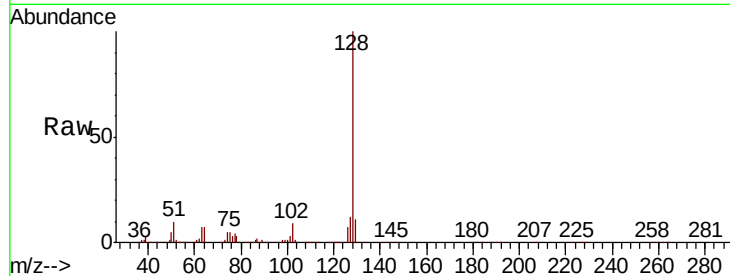
#95
Naphthalene
Concen: 49.30 ug/l
RT: 14.96 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.0	15.0
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/24/2018 3:08:57 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.19 ug/l
RT: 15.11 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VD059881.D
Acq: 23 Aug 2018 11:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.6	145.8
145	27.9	13.6	40.8

