

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059893.D
 Acq On : 23 Aug 2018 17:33
 Operator : JC/SY
 Sample : J4559-10MS
 Misc : 5.14g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 3:09:31 PM

Quant Time: Aug 24 07:02:56 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	6.39	168	923366	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.43	114	1308273	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.28	117	897215	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	330283	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	413738	53.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	106.32%	
35) Dibromofluoromethane	6.31	113	528322	51.51	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	103.02%	
50) Toluene-d8	9.45	98	1258198	44.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.40%	
62) 4-Bromofluorobenzene	12.42	95	403731	34.92	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	69.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.56	85	408195	49.45	ug/l	99
3) Chloromethane	1.74	50	374871	50.13	ug/l	97
4) Vinyl Chloride	1.83	62	293033	49.98	ug/l	100
5) Bromomethane	2.13	94	42289	41.78	ug/l	99
6) Chloroethane	2.23	64	96651	51.62	ug/l	99
7) Trichlorofluoromethane	2.49	101	346672	51.11	ug/l	98
8) Diethyl Ether	2.80	74	90443	59.44	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.06	101	189802	45.69	ug/l	94
10) Methyl Iodide	3.22	142	182512	41.85	ug/l	100
11) Tert butyl alcohol	3.96	59	183642	309.25	ug/l	99
12) 1,1-Dichloroethene	3.05	96	163713	50.63	ug/l	98
13) Acrolein	2.97	56	1301	5.05	ug/l	86
14) Allyl chloride	3.51	41	328845	44.95	ug/l	97
15) Acrylonitrile	4.06	53	633539	284.90	ug/l	99
16) Acetone	3.14	43	407435	287.35	ug/l	100
17) Carbon Disulfide	3.29	76	359472	35.81	ug/l	98
18) Methyl Acetate	3.53	43	547554	184.99	ug/l	97
19) Methyl tert-butyl Ether	4.10	73	1122098	61.34	ug/l	98
20) Methylene Chloride	3.69	84	551667	58.96	ug/l	99
21) trans-1,2-Dichloroethene	4.07	96	420479	47.19	ug/l	99
22) Diisopropyl ether	4.83	45	2248201	60.26	ug/l #	81
23) Vinyl Acetate	4.83	43	996707	47.79	ug/l #	81
24) 1,1-Dichloroethane	4.73	63	922096	57.21	ug/l	99
25) 2-Butanone	5.61	43	1351720	321.89	ug/l	98
26) 2,2-Dichloropropane	5.57	77	509939	37.85	ug/l	99
27) cis-1,2-Dichloroethene	5.57	96	504378	51.70	ug/l	99
28) Bromochloromethane	5.90	49	422240	54.66	ug/l	99
29) Tetrahydrofuran	5.93	42	628650	314.45	ug/l	99
30) Chloroform	6.08	83	917004	55.98	ug/l	99
31) Cyclohexane	6.35	56	478235	32.27	ug/l	99
32) 1,1,1-Trichloroethane	6.28	97	713977	51.36	ug/l	98
36) 1,1-Dichloropropene	6.50	75	519064	43.77	ug/l	97
37) Ethyl Acetate	5.61	43	1361822	147.57	ug/l #	84
38) Carbon Tetrachloride	6.49	117	545713	45.60	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.03	83	283817	22.15	ug/l	100
40) Benzene	6.78	78	1614079	52.34	ug/l	100
41) Methacrylonitrile	5.91	41	254424m	54.73	ug/l	
42) 1,2-Dichloroethane	6.88	62	537928	54.34	ug/l	99
43) Isopropyl Acetate	8.34	43	75979	6.33	ug/l #	95
44) Trichloroethene	7.73	130	423731	46.67	ug/l	98
45) 1,2-Dichloropropane	8.09	63	461106	53.50	ug/l	99
46) Dibromomethane	8.21	93	287979	51.96	ug/l	94
47) Bromodichloromethane	8.48	83	662434	52.80	ug/l	99
48) Methyl methacrylate	8.24	41	497919	71.14	ug/l	98
49) 1,4-Dioxane	8.22	88	79335	1269.68	ug/l	91
51) 4-Methyl-2-Pentanone	9.33	43	2726800	304.64	ug/l	98
52) Toluene	9.54	92	914350	46.24	ug/l	99
53) t-1,3-Dichloropropene	9.91	75	501453	43.21	ug/l	99
54) cis-1,3-Dichloropropene	9.09	75	604908	44.96	ug/l	100
55) 1,1,2-Trichloroethane	10.18	97	370128	51.21	ug/l	99
56) Ethyl methacrylate	10.02	69	181289	21.73	ug/l	93
57) 1,3-Dichloropropane	10.37	76	552595	52.82	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	1025214	256.19	ug/l	95
59) 2-Hexanone	10.48	43	1744560	264.25	ug/l	97
60) Dibromochloromethane	10.63	129	467230	51.43	ug/l	97
61) 1,2-Dibromoethane	10.76	107	363724	49.77	ug/l	99
64) Tetrachloroethene	10.24	164	457821	65.99	ug/l	98
65) Chlorobenzene	11.31	112	902703	50.63	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.42	131	388309	59.61	ug/l	99
67) Ethyl Benzene	11.43	91	1408368	46.95	ug/l	99
68) m/p-Xylenes	11.56	106	1034735	94.75	ug/l	100
69) o-Xylene	11.93	106	528785	49.51	ug/l	95
70) Styrene	11.95	104	834206	45.10	ug/l	95
71) Bromoform	12.11	173	331743	58.86	ug/l #	98
73) Isopropylbenzene	12.27	105	1082660	51.35	ug/l	100
74) N-amyl acetate	12.13	43	40524	4.39	ug/l #	95
75) 1,1,2,2-Tetrachloroethane	12.56	83	433944	88.98	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	404450	78.79	ug/l	99
77) Bromobenzene	12.54	156	378768	64.80	ug/l	88
78) n-propylbenzene	12.64	91	1148993	43.04	ug/l	100
79) 2-Chlorotoluene	12.70	91	807981	53.52	ug/l	97
80) 1,3,5-Trimethylbenzene	12.79	105	743095	44.33	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	87513	54.81	ug/l	95
82) 4-Chlorotoluene	12.80	91	864558	50.20	ug/l	93
83) tert-Butylbenzene	13.04	119	737055	38.60	ug/l	94
84) 1,2,4-Trimethylbenzene	13.09	105	732135	41.91	ug/l	99
85) sec-Butylbenzene	13.22	105	686449	30.57	ug/l	99
86) p-Isopropyltoluene	13.33	119	560975	30.72	ug/l	95
87) 1,3-Dichlorobenzene	13.30	146	481712	46.16	ug/l	98
88) 1,4-Dichlorobenzene	13.38	146	505151	48.52	ug/l	98
89) n-Butylbenzene	13.64	91	439784	22.54	ug/l	96
90) Hexachloroethane	13.86	117	146618	29.90	ug/l	87
91) 1,2-Dichlorobenzene	13.66	146	475642	53.60	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.22	75	60178	80.26	ug/l	68

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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)
93) 1,2,4-Trichlorobenzene	14.78	180	177540	23.37	ug/l	95
94) Hexachlorobutadiene	14.88	225	50445	10.13	ug/l	98
95) Naphthalene	14.97	128	261318	22.51	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	160495	24.70	ug/l	93

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

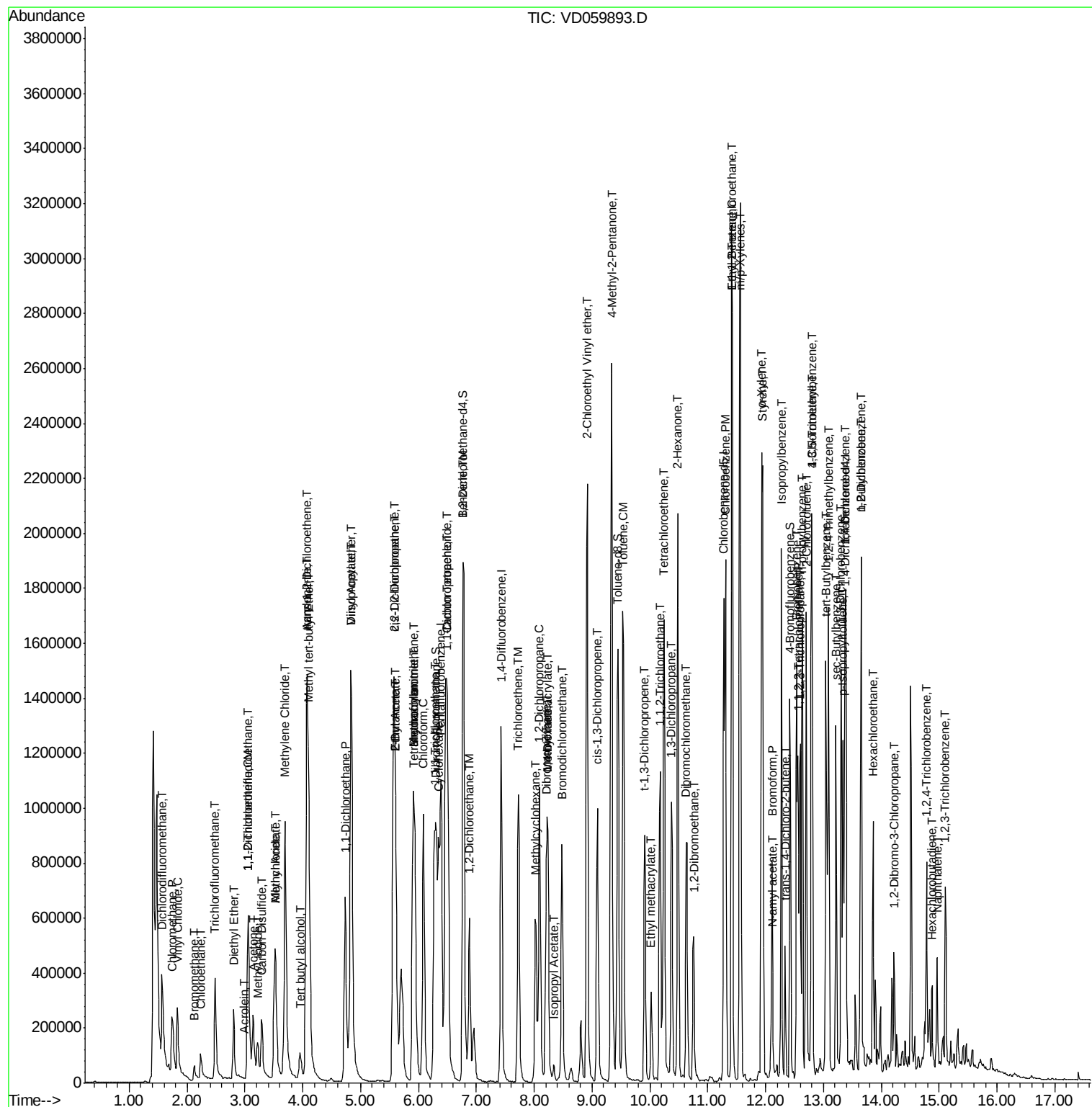
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059893.D
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 Operator : JC/SY
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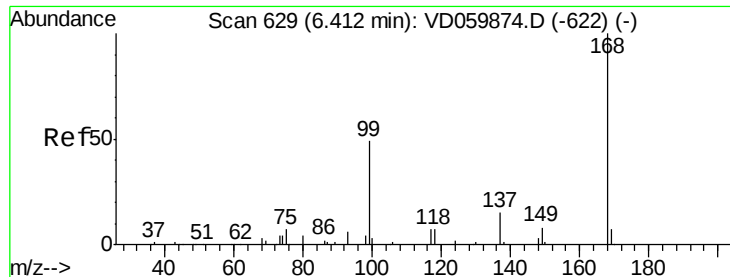
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 MSVOA_D
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#1

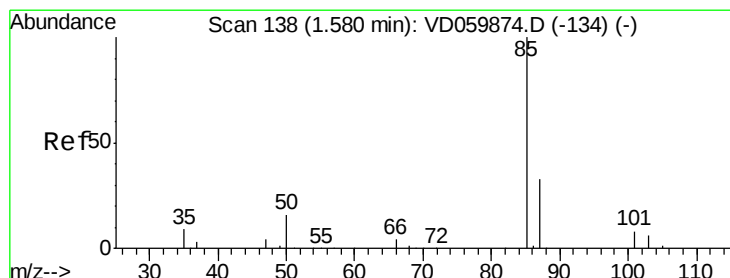
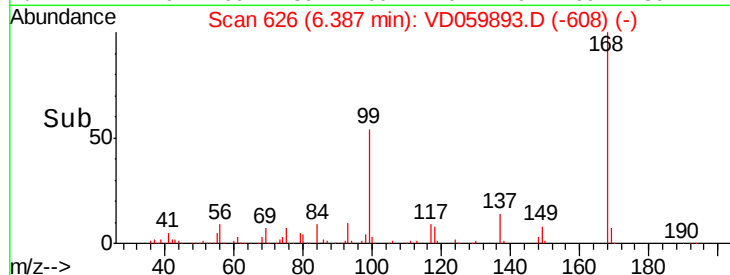
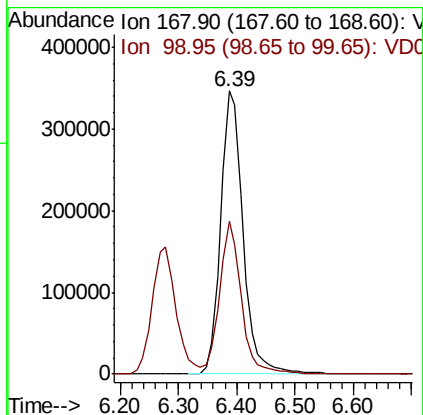
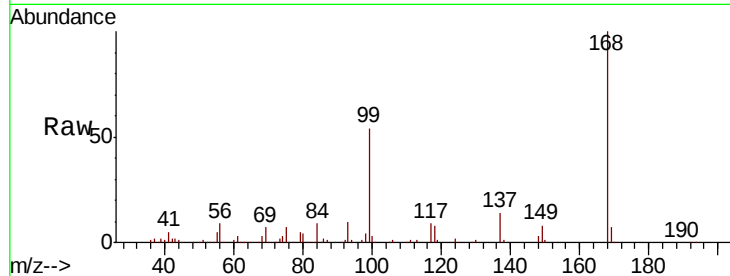
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 6.39 min Scan# 626
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.2	63.2

Manual Integrations
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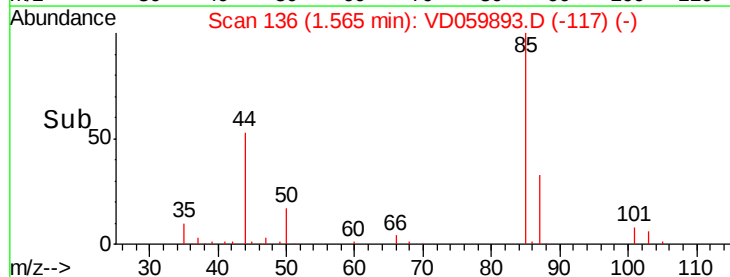
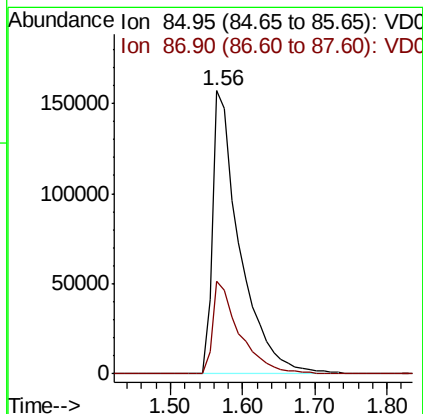
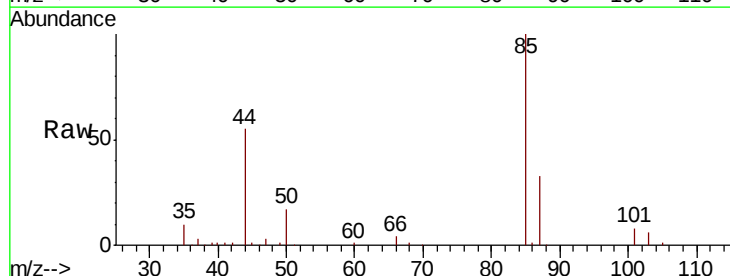
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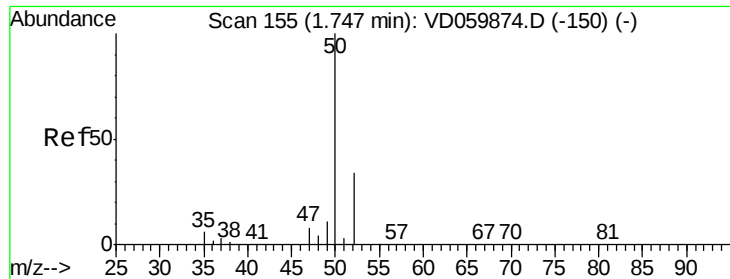


#2

Dichlorodifluoromethane
 Concen: 49.45 ug/l
 RT: 1.56 min Scan# 136
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.8	50.3





#3

Chloromethane

Concen: 50.13 ug/l

RT: 1.74 min Scan# 154

Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 50 Resp: 374871

Ion Ratio Lower Upper

50 100

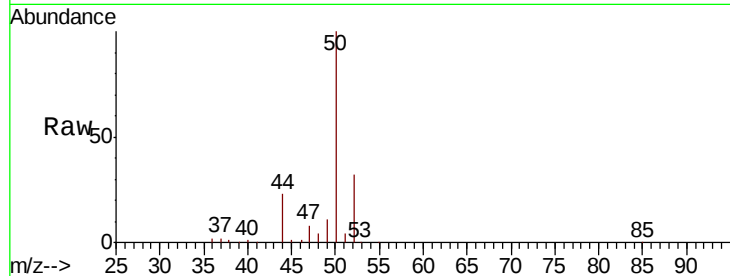
52 32.3 27.0 40.6

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

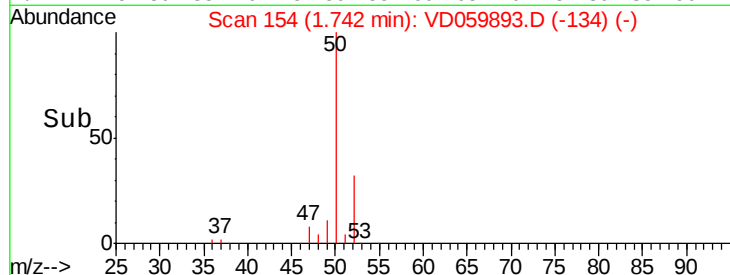
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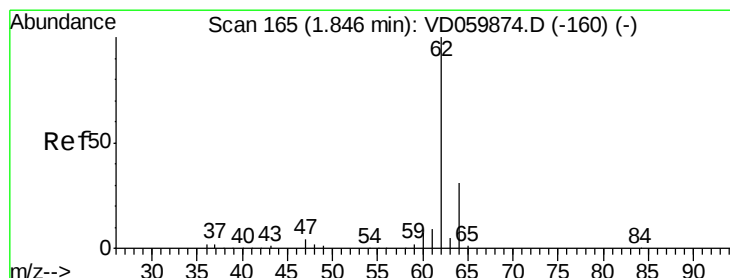
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Time-->



Time-->



#4

Vinyl Chloride

Concen: 49.98 ug/l

RT: 1.83 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD059893.D

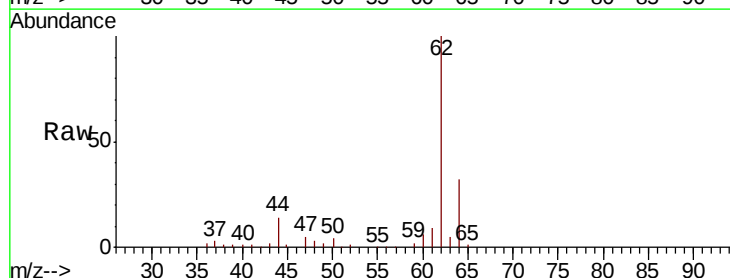
Acq: 23 Aug 2018 17:33

Tgt Ion: 62 Resp: 293033

Ion Ratio Lower Upper

62 100

64 31.5 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.83

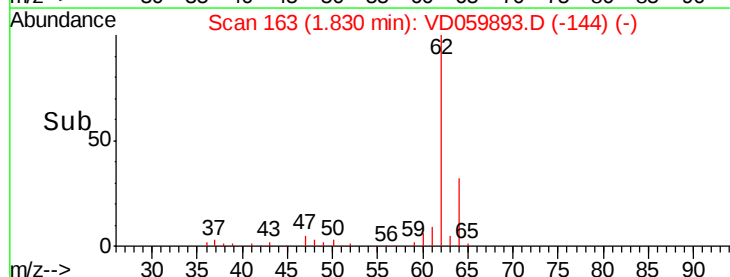
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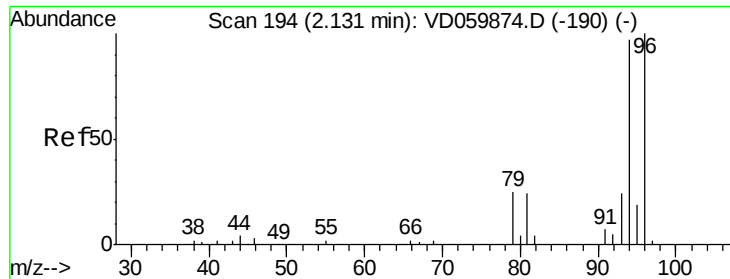
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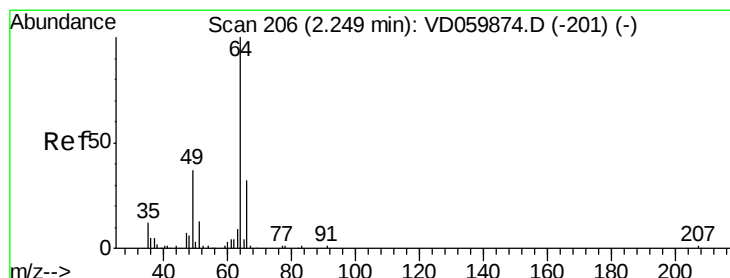
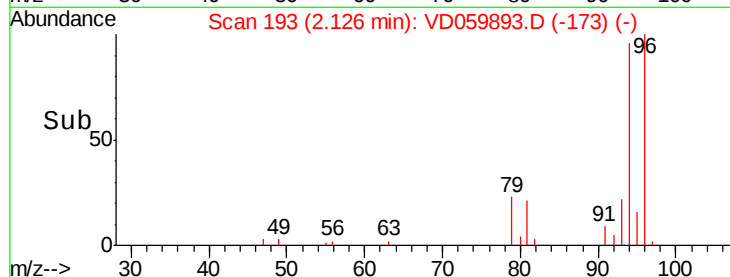
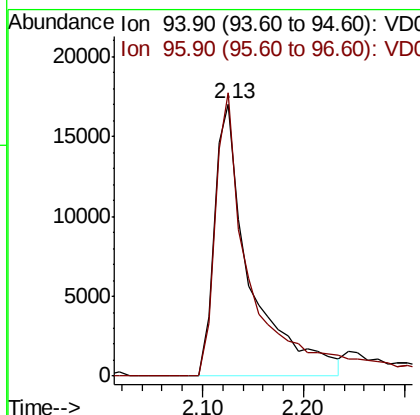
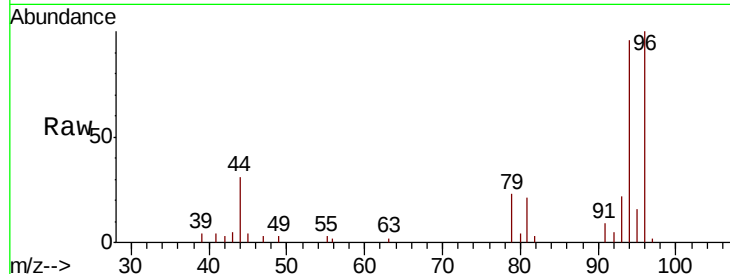
#5
 Bromomethane
 Concen: 41.78 ug/l
 RT: 2.13 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
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 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
94	100		
96	103.9	82.4	123.6

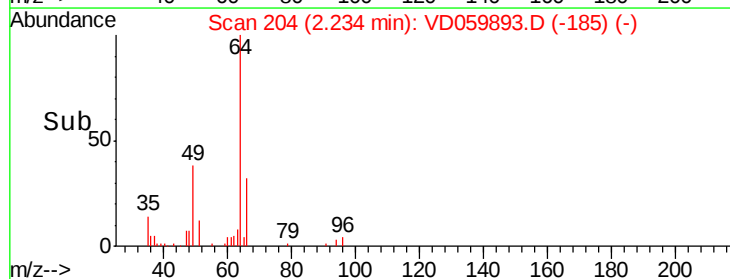
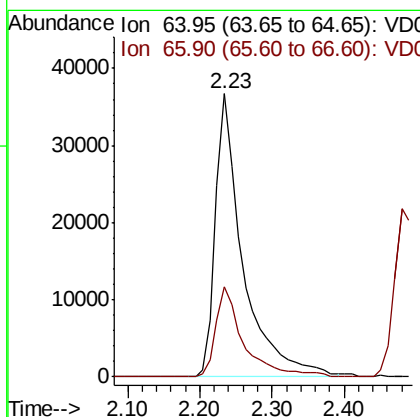
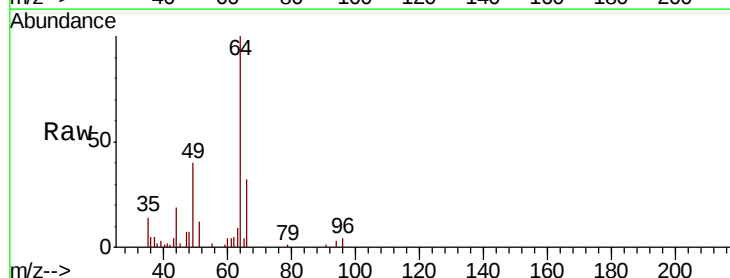
Manual Integrations
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#6
 Chloroethane
 Concen: 51.62 ug/l
 RT: 2.23 min Scan# 204
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.3	37.9





#7

Trichlorofluoromethane

Concen: 51.11 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:101 Resp: 346672

Ion Ratio Lower Upper

101 100

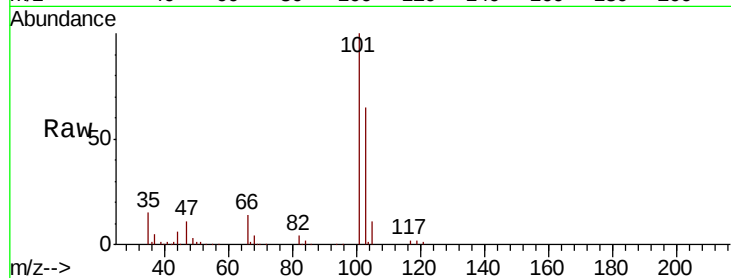
103 65.2 53.7 80.5

Manual Integrations

APPROVED

MMDadoda

8/24/2018 3:09:31 PM



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

150000

100000

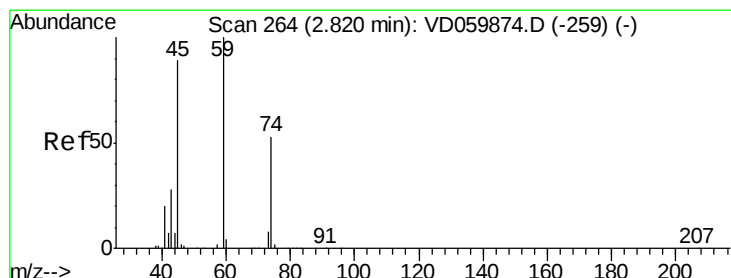
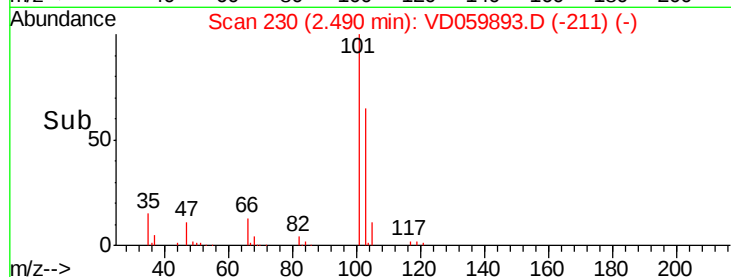
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2.49

2.40 2.50 2.60 2.70

Time-->



#8

Diethyl Ether

Concen: 59.44 ug/l

RT: 2.80 min Scan# 262

Delta R.T. -0.02 min

Lab File: VD059893.D

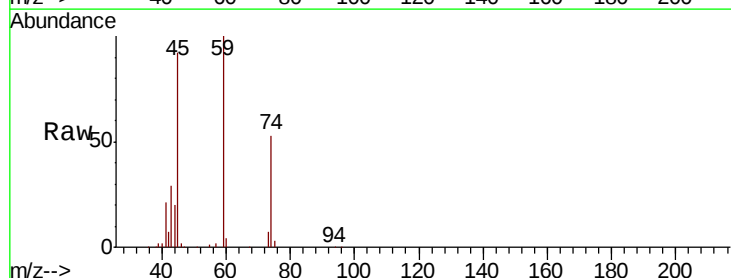
Acq: 23 Aug 2018 17:33

Tgt Ion: 74 Resp: 90443

Ion Ratio Lower Upper

74 100

45 171.3 85.7 257.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

80000

60000

40000

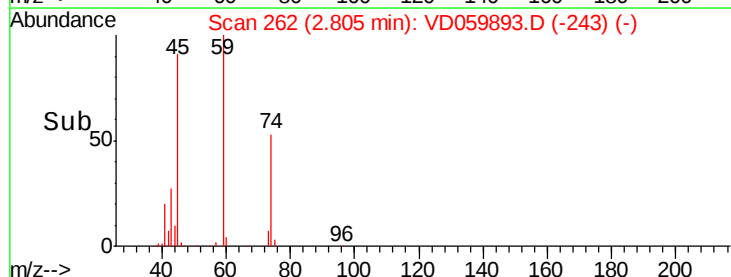
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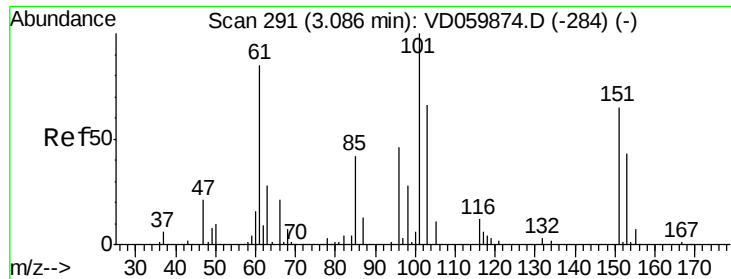
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2.80

2.70 2.80 2.90 3.00

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.69 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

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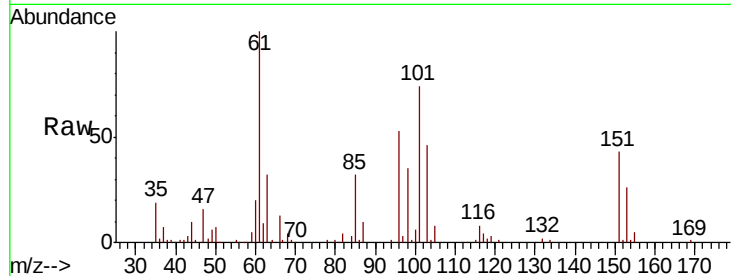
ClientSampleId :

RA-081718-WSW-20-053

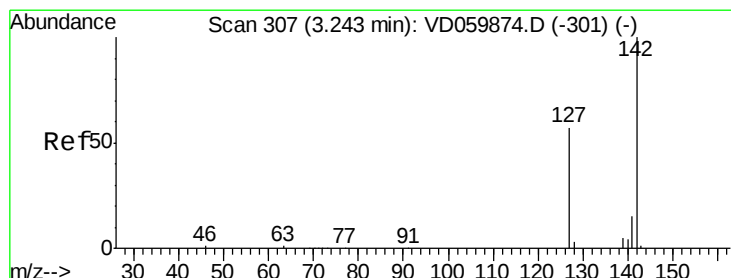
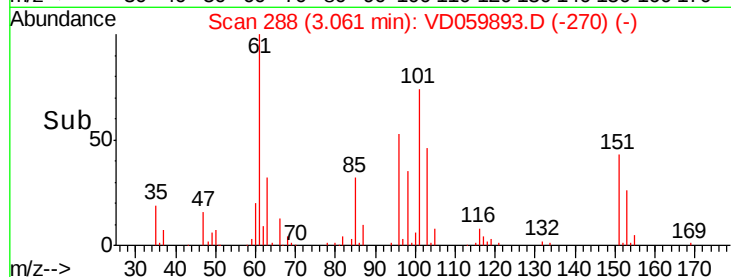
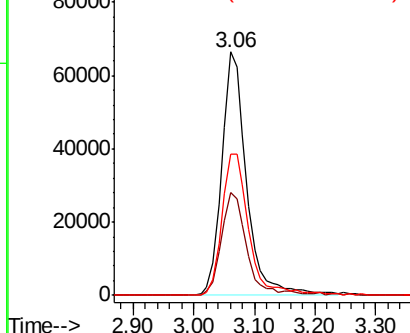
Tot Ion:	101	Resp:	189802
Ion Ratio	Lower	Upper	
101	100		
85	42.4	33.6	50.4
151	58.0	52.0	78.0

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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: 41.85 ug/l

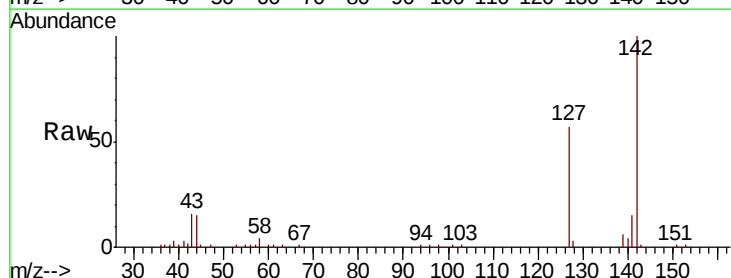
RT: 3.22 min Scan# 304

Delta R.T. -0.02 min

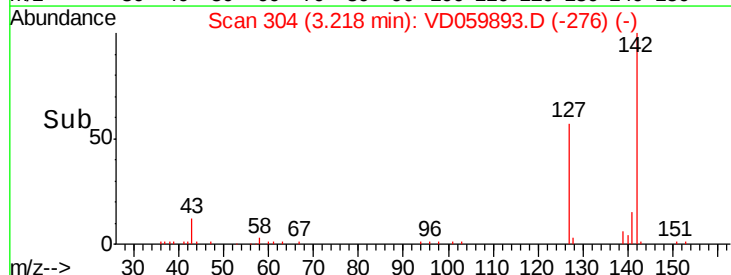
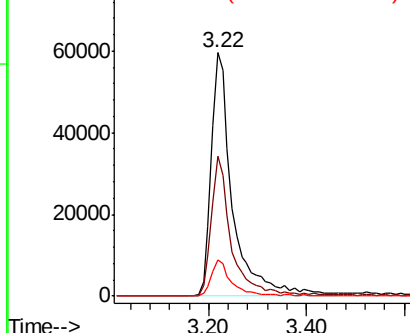
Lab File: VD059893.D

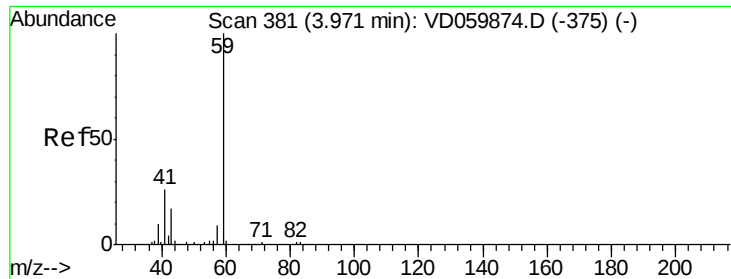
Acq: 23 Aug 2018 17:33

Tgt Ion:	142	Resp:	182512
Ion Ratio	Lower	Upper	
142	100		
127	57.3	45.8	68.6
141	14.9	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





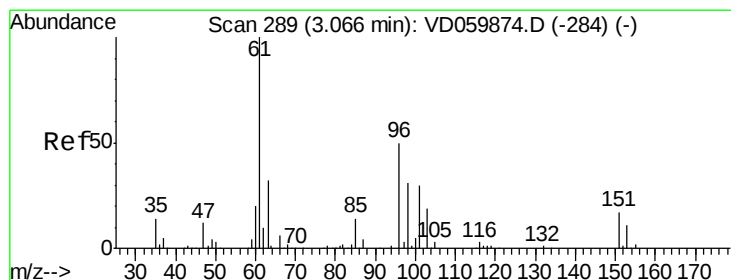
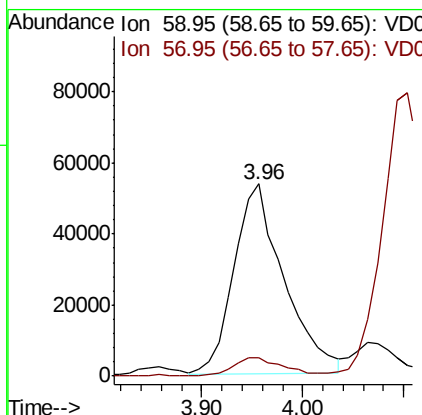
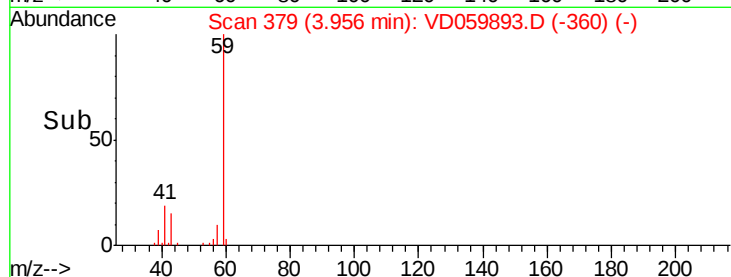
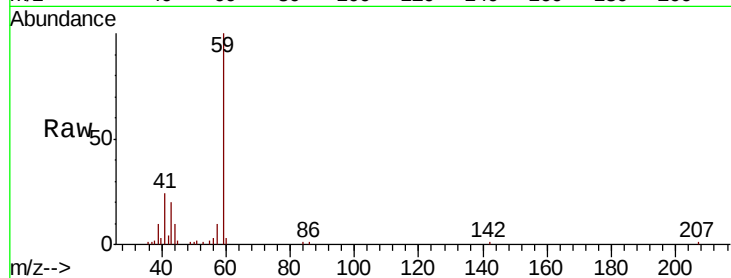
#11
Tert butyl alcohol
Concen: 309.25 ug/l
RT: 3.96 min Scan# 379
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.4	11.0

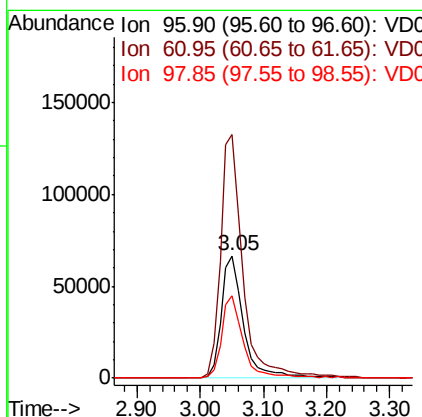
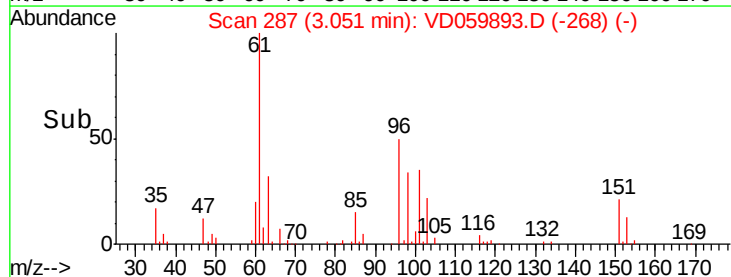
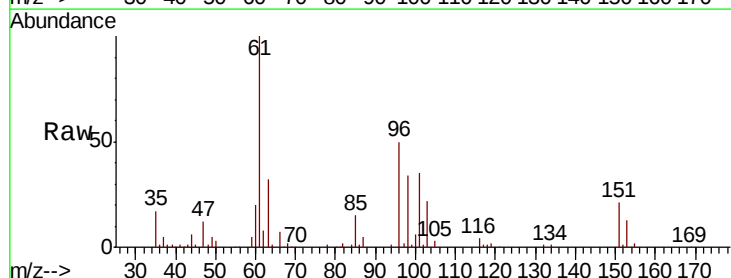
Manual Integrations
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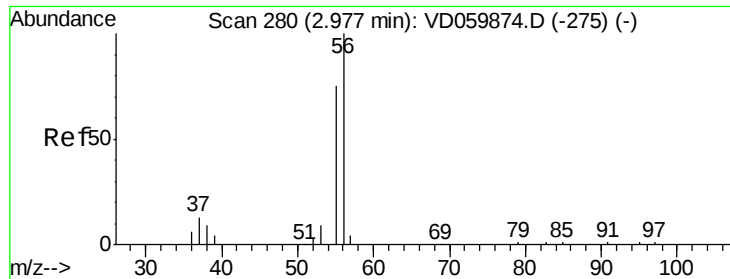
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#12
1,1-Dichloroethene
Concen: 50.63 ug/l
RT: 3.05 min Scan# 287
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	199.5	158.8	238.2
98	67.1	48.7	73.1





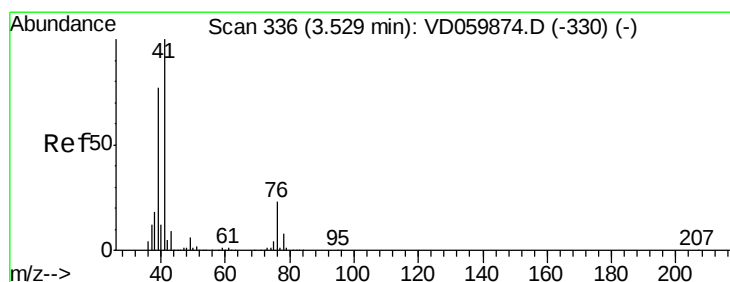
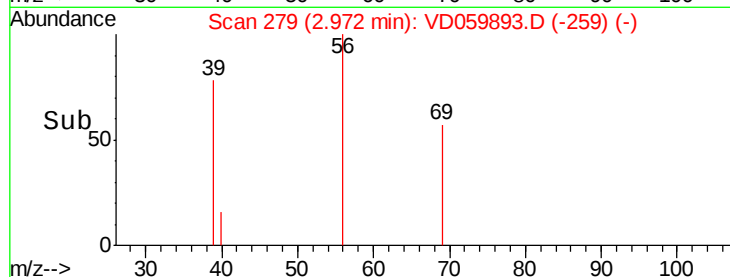
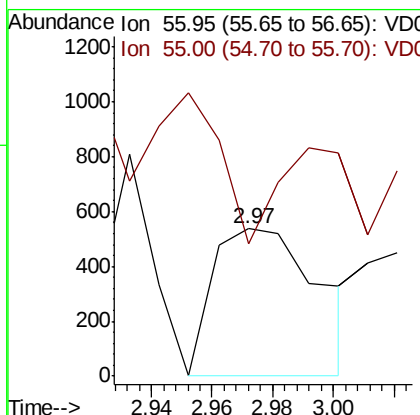
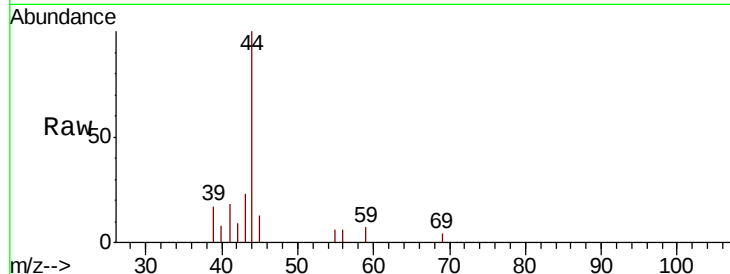
#13
Acrolein
Concen: 5.05 ug/l
RT: 2.97 min Scan# 279
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
56	100		
55	89.6	61.9	92.9

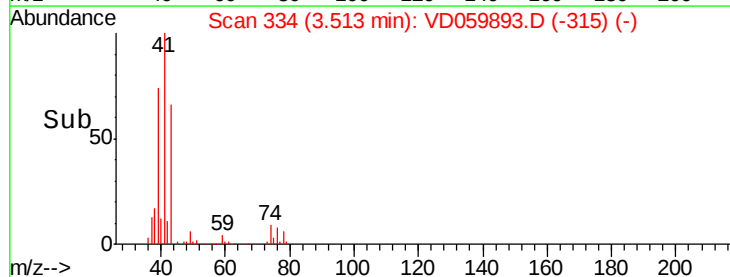
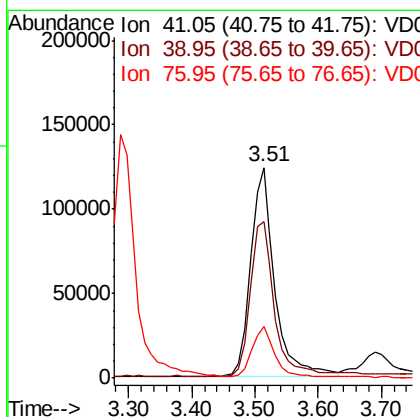
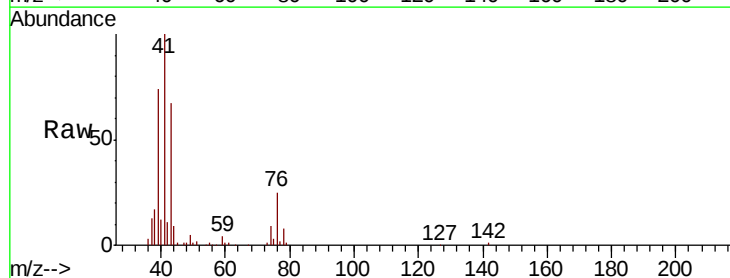
Manual Integrations
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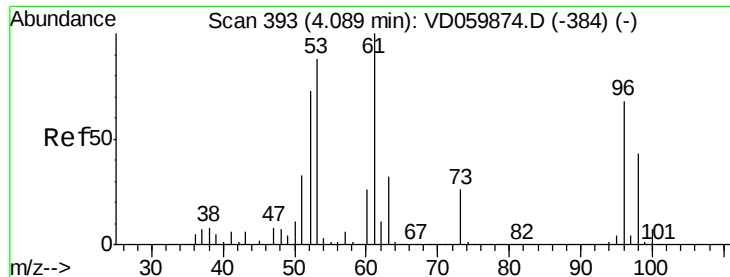
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#14
Allyl chloride
Concen: 44.95 ug/l
RT: 3.51 min Scan# 334
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
41	100		
39	74.3	61.8	92.6
76	24.6	19.4	29.2





#15

Acrylonitrile

Concen: 284.90 ug/l

RT: 4.06 min Scan# 390

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

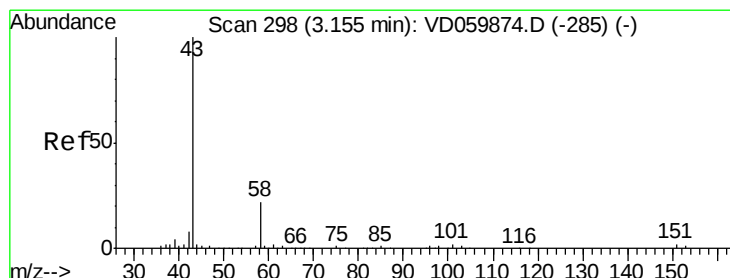
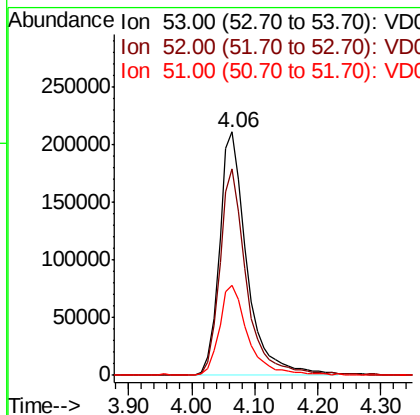
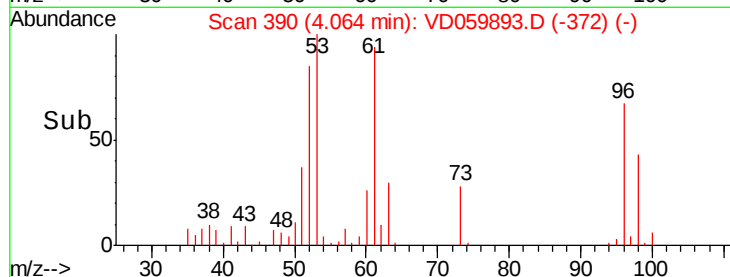
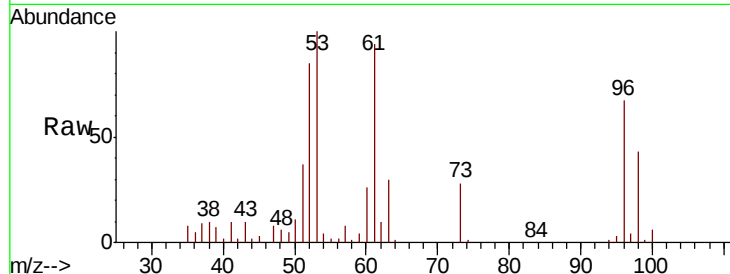
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	53	Resp:	633539
Ion Ratio	Lower	Upper	
53	100		
52	85.0	66.9	100.3
51	37.2	30.3	45.5

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#16

Acetone

Concen: 287.35 ug/l

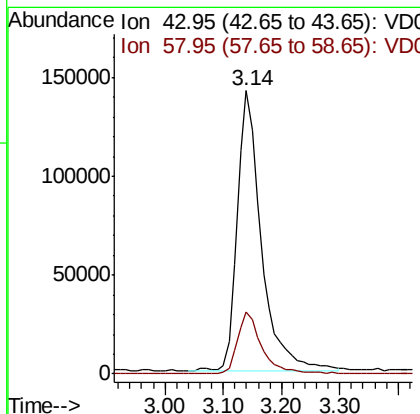
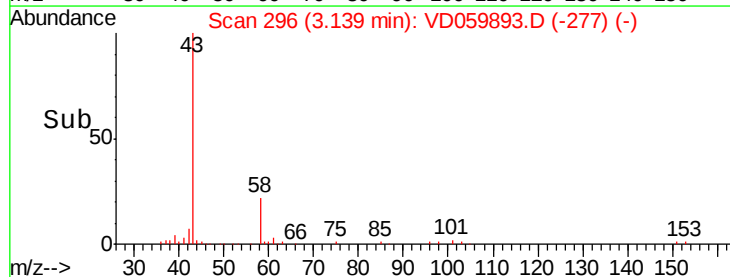
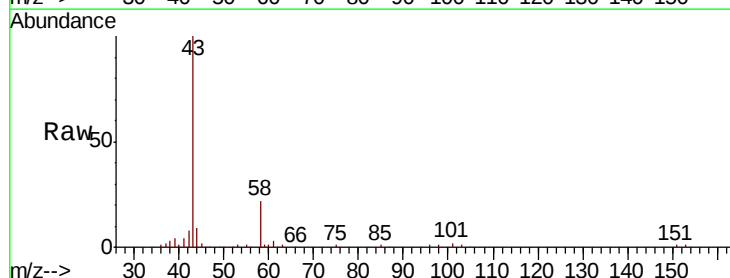
RT: 3.14 min Scan# 296

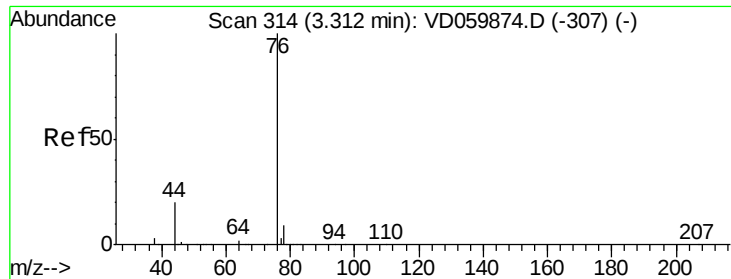
Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion:	43	Resp:	407435
Ion Ratio	Lower	Upper	
43	100		
58	21.8	17.6	26.4





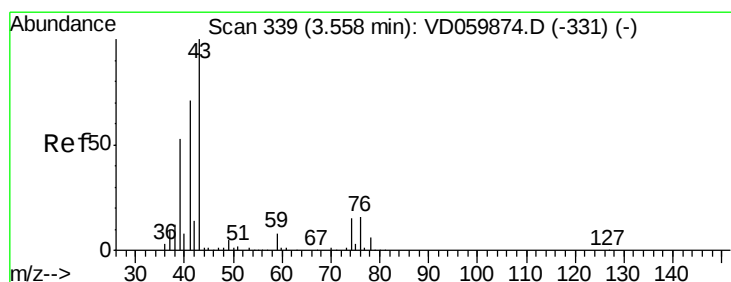
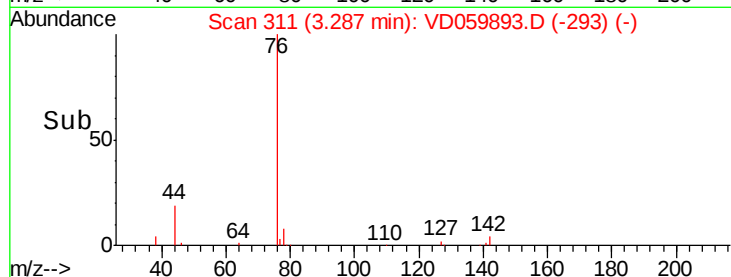
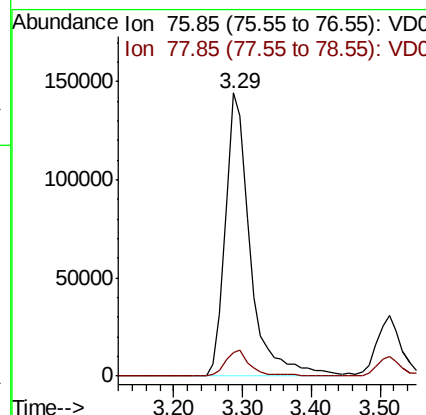
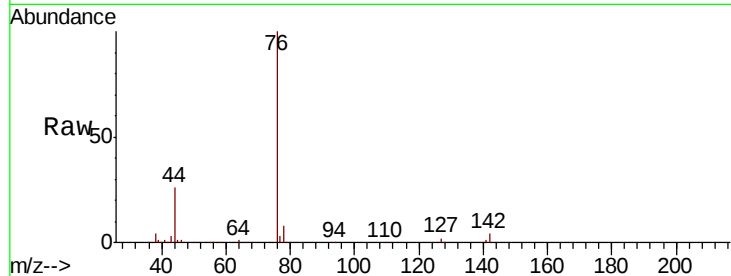
#17
Carbon Disulfide
Concen: 35.81 ug/l
RT: 3.29 min Scan# 311
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 76 Resp: 359472
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.2

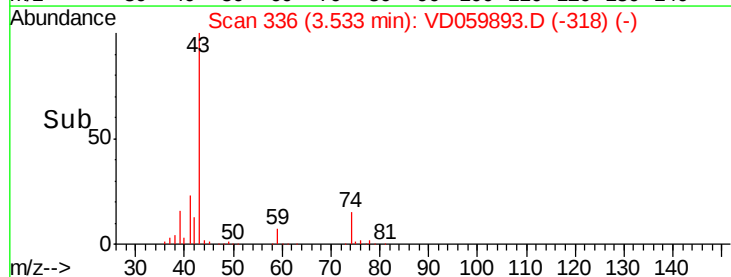
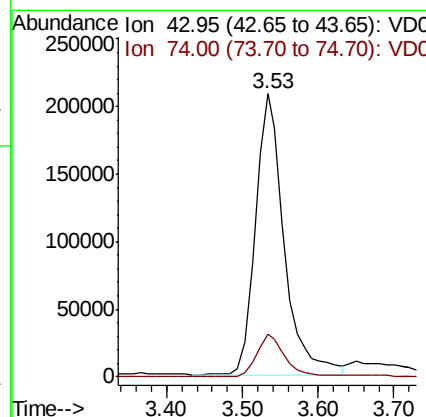
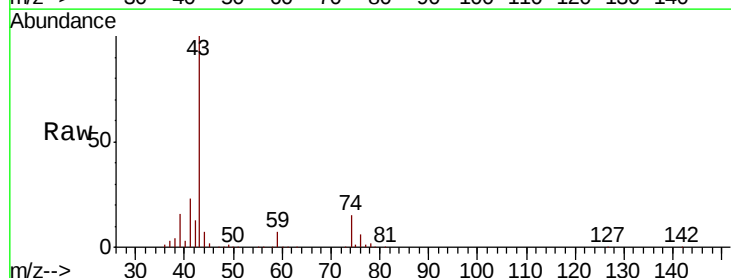
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#18
Methyl Acetate
Concen: 184.99 ug/l
RT: 3.53 min Scan# 336
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion: 43 Resp: 547554
Ion Ratio Lower Upper
43 100
74 15.3 11.2 16.8





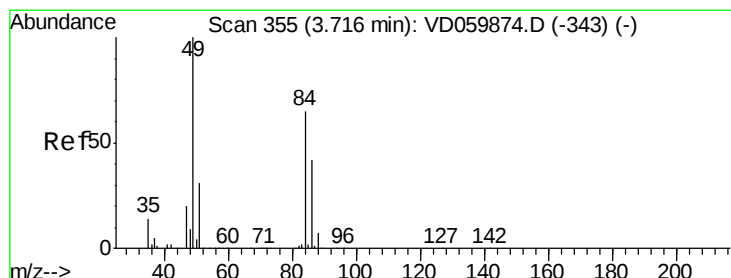
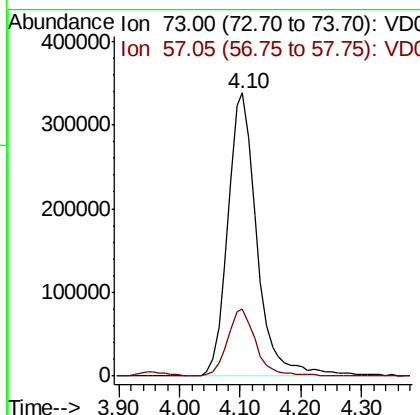
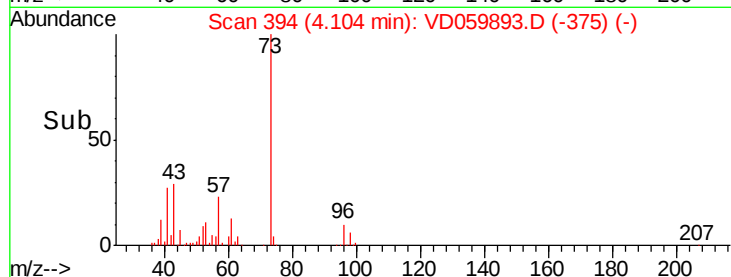
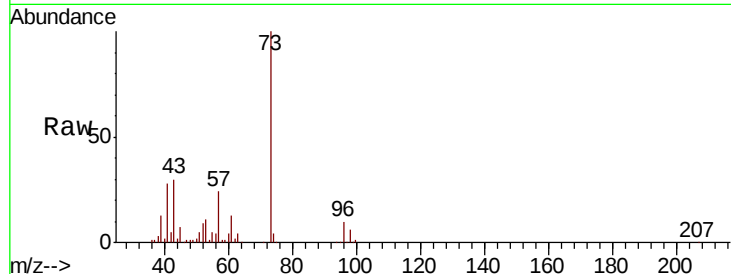
#19
Methvl tert-butvl Ether
Concen: 61.34 ug/l
RT: 4.10 min Scan# 394
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 73 Resp: 1122098
Ion Ratio Lower Upper
73 100
57 23.6 17.9 26.9

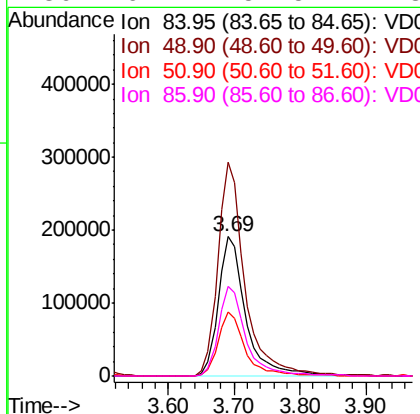
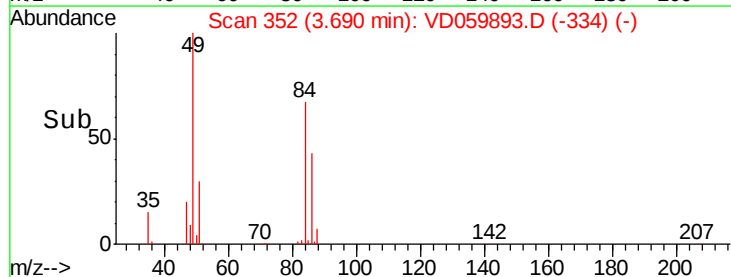
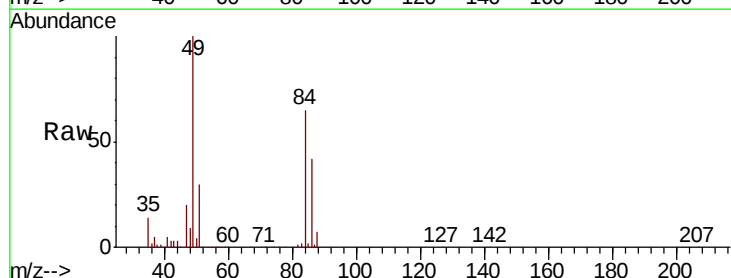
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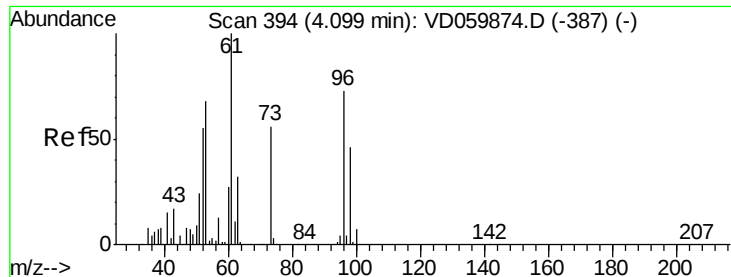
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#20
Methylene Chloride
Concen: 58.96 ug/l
RT: 3.69 min Scan# 352
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion: 84 Resp: 551667
Ion Ratio Lower Upper
84 100
49 153.6 122.6 183.8
51 46.4 38.4 57.6
86 64.4 51.5 77.3





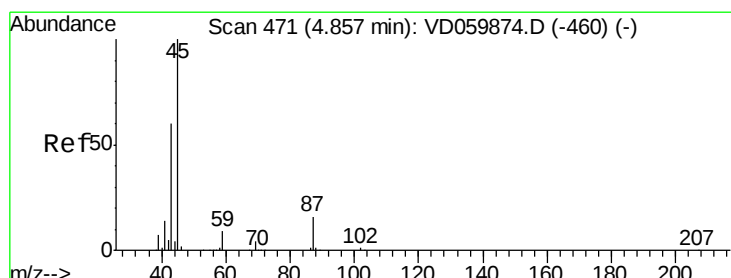
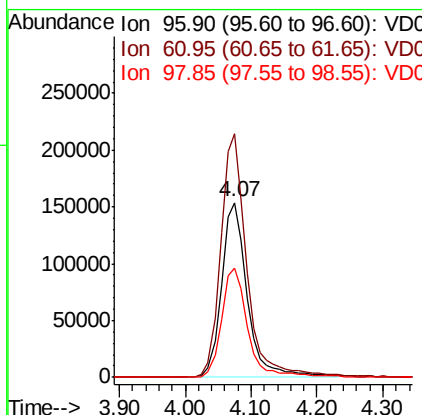
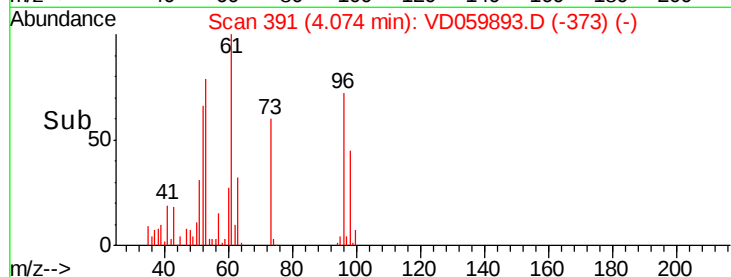
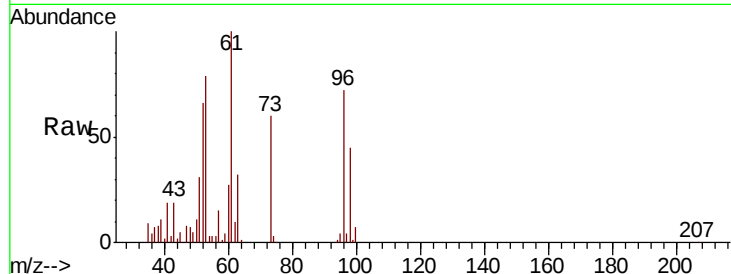
#21
trans-1,2-Dichloroethene
Concen: 47.19 ug/l
RT: 4.07 min Scan# 391
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.3	110.2	165.4
98	62.8	50.9	76.3

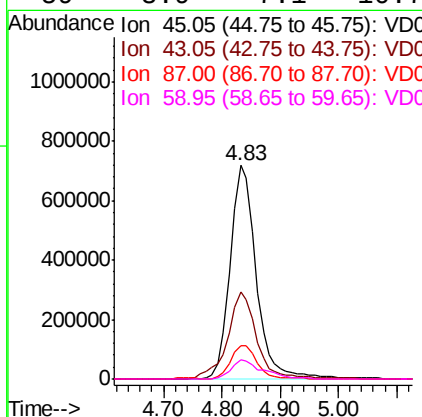
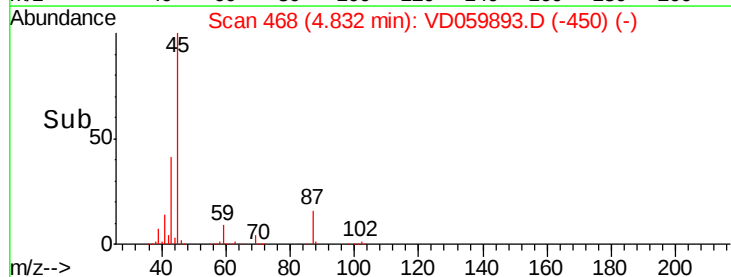
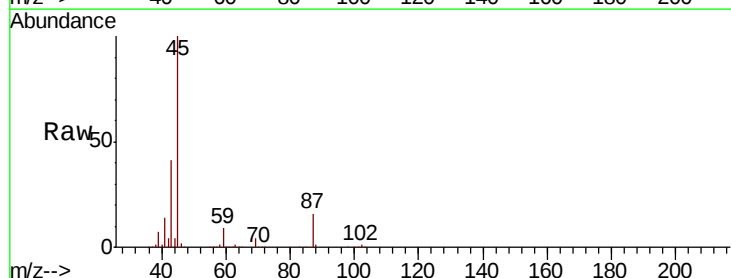
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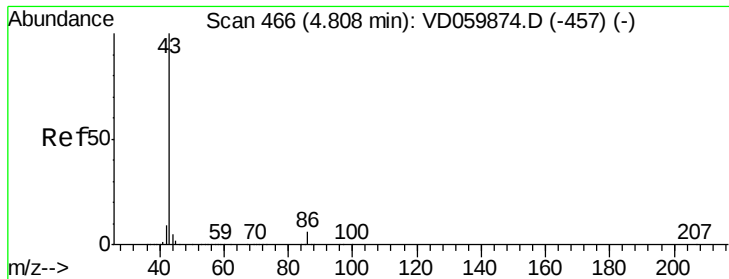
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#22
Diisopropyl ether
Concen: 60.26 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
45	100		
43	40.9	48.6	72.8#
87	15.7	13.3	19.9
59	8.9	7.1	10.7





#23

Vinyl Acetate

Concen: 47.79 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 43 Resp: 996707

Ion Ratio Lower Upper

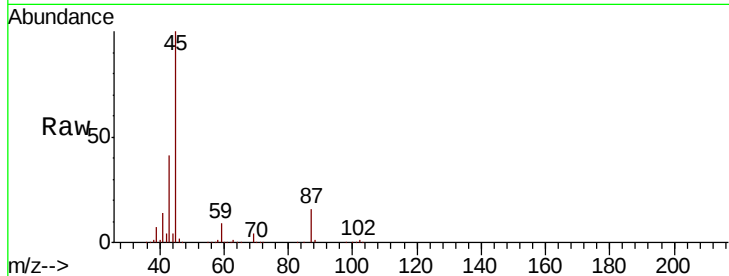
43 100

86 0.0 5.0 7.6#

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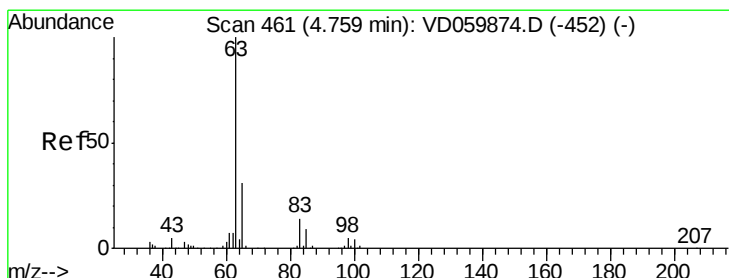
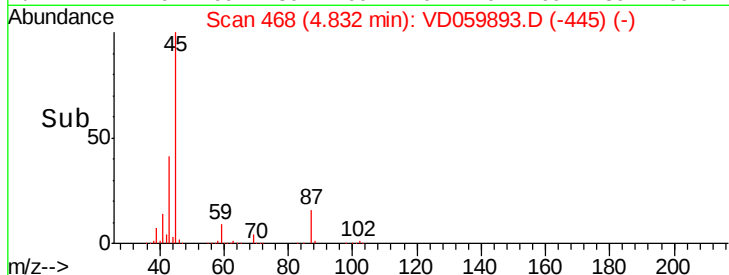
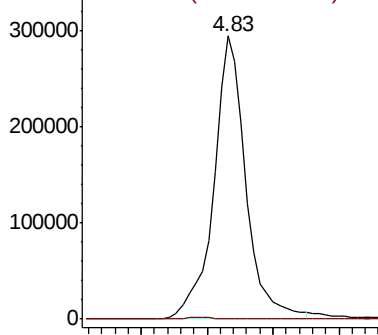
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 57.21 ug/l

RT: 4.73 min Scan# 458

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

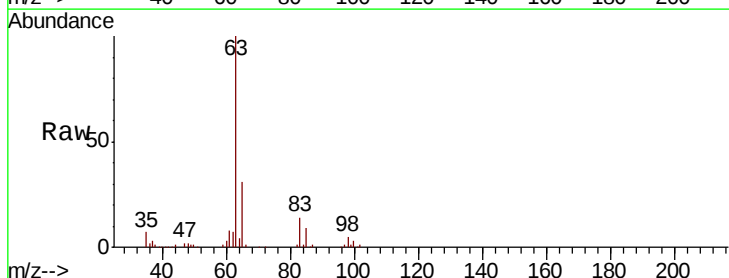
Tgt Ion: 63 Resp: 922096

Ion Ratio Lower Upper

63 100

98 5.0 2.7 8.1

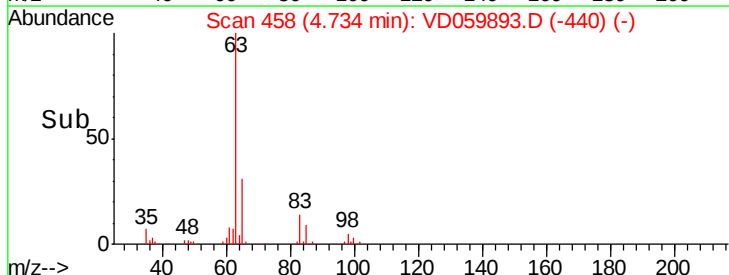
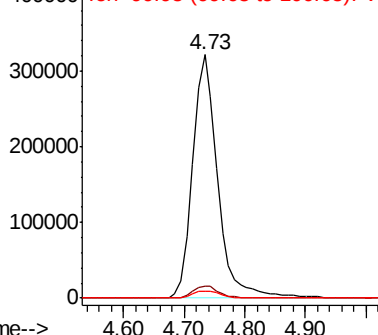
100 3.0 1.8 5.3



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





#25

2-Butanone

Concen: 321.89 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 43 Resp: 1351720

Ion Ratio Lower Upper

43 100

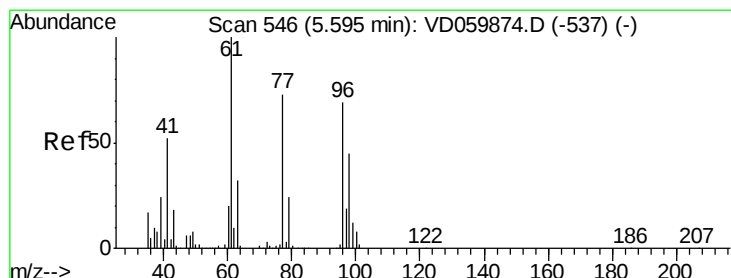
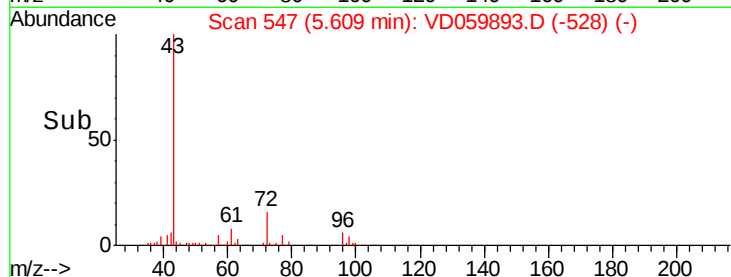
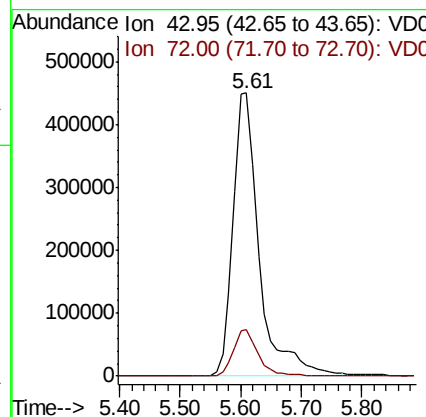
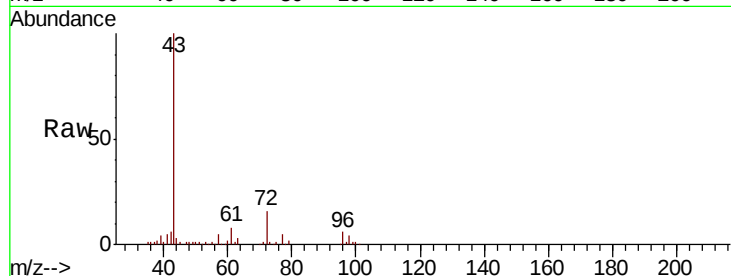
72 16.3 12.3 18.5

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 37.85 ug/l

RT: 5.57 min Scan# 543

Delta R.T. -0.03 min

Lab File: VD059893.D

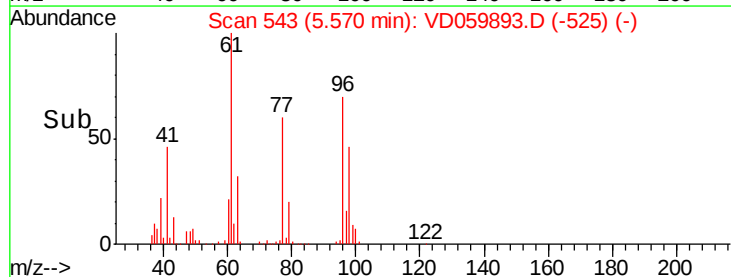
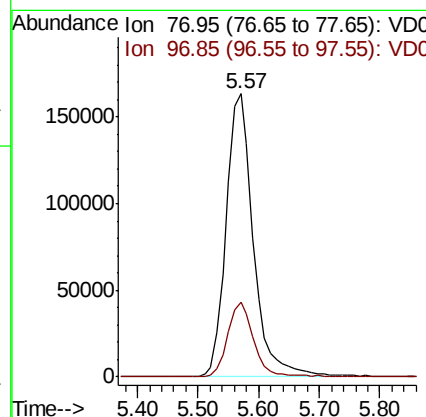
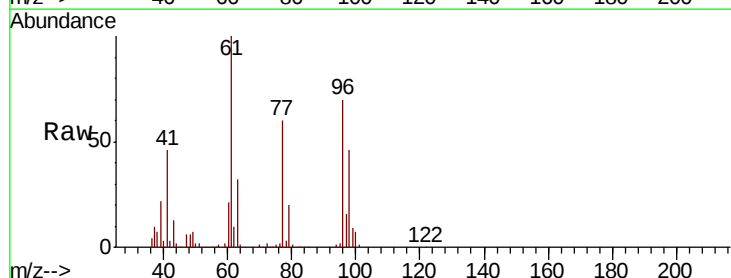
Acq: 23 Aug 2018 17:33

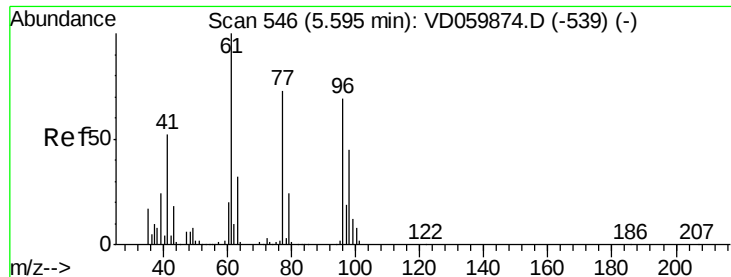
Tgt Ion: 77 Resp: 509939

Ion Ratio Lower Upper

77 100

97 26.2 13.0 38.9





#27

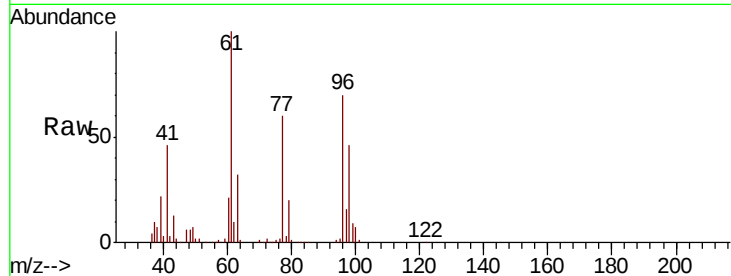
cis-1,2-Dichloroethene
 Concen: 51.70 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

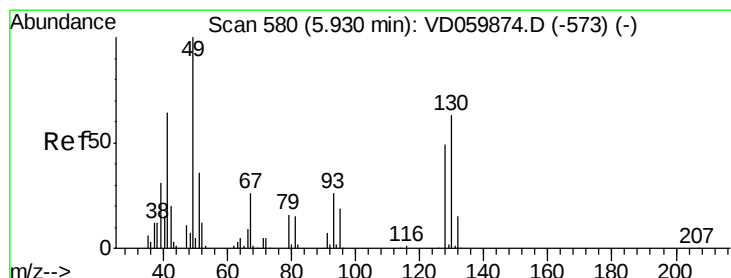
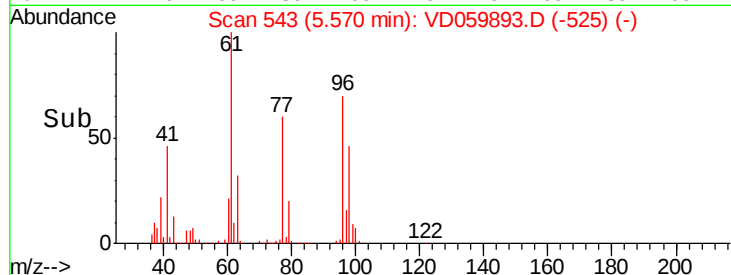
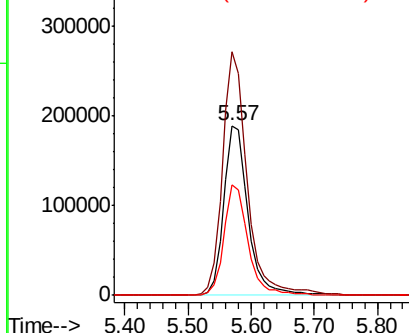
Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.7	0.0	290.2	
98	65.4	0.0	130.4	

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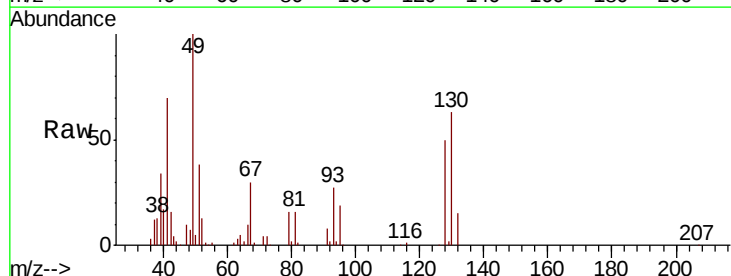
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



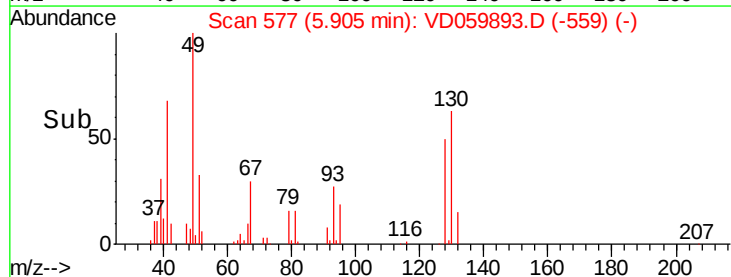
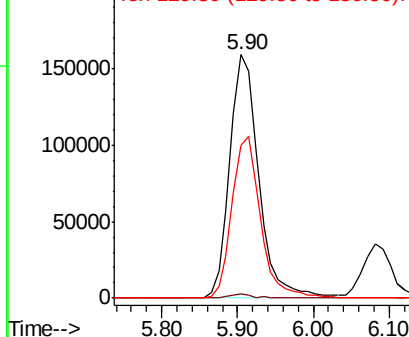
#28

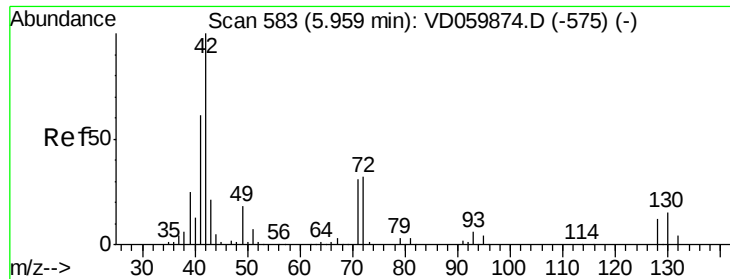
Bromochloromethane
 Concen: 54.66 ug/l
 RT: 5.90 min Scan# 577
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	3.2	
130	62.8	50.6	75.8	



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC





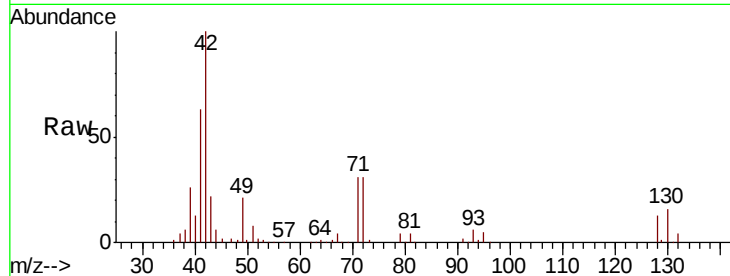
#29
Tetrahydrofuran
Concen: 314.45 ug/l
RT: 5.93 min Scan# 580
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

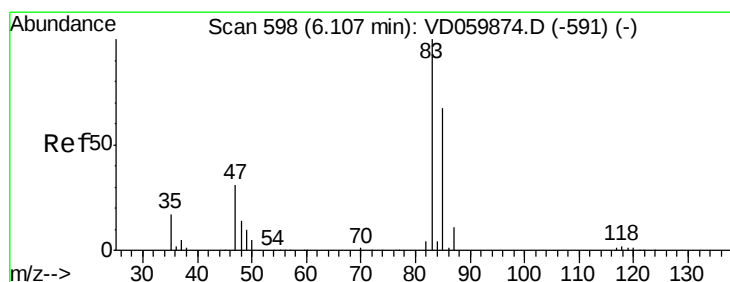
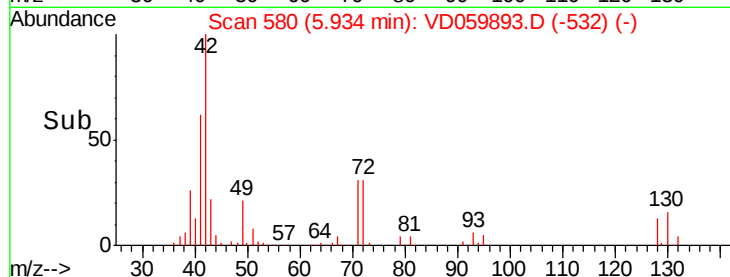
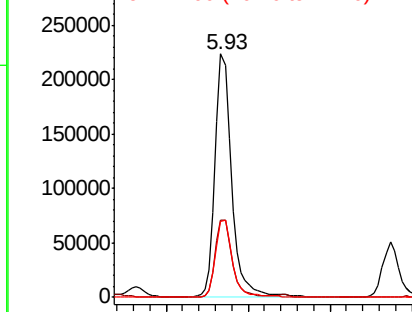
Tot Ion	Ratio	Lower	Upper
42	100		
72	32.1	25.7	38.5
71	32.2	25.3	37.9

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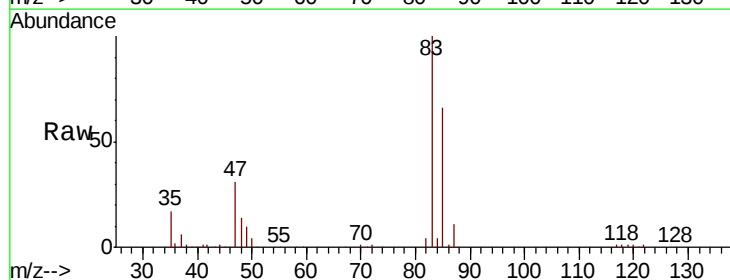


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

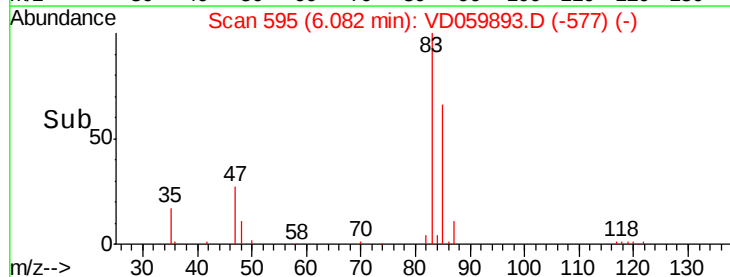
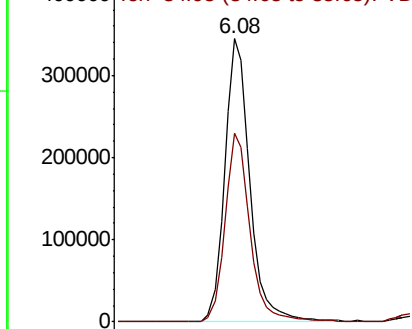


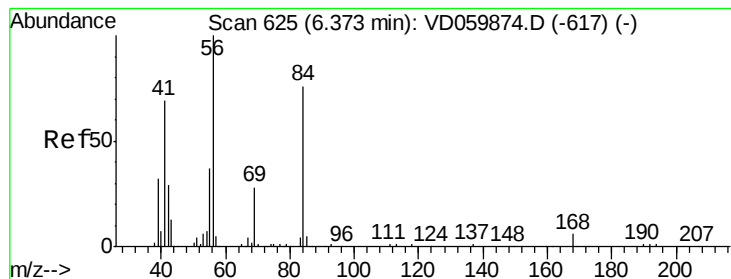
#30
Chloroform
Concen: 55.98 ug/l
RT: 6.08 min Scan# 595
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	53.5	80.3



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 32.27 ug/l

RT: 6.35 min Scan# 622

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

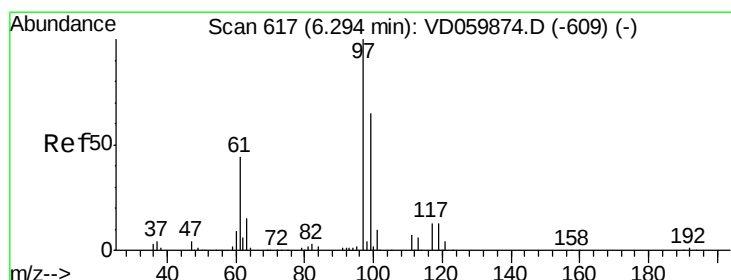
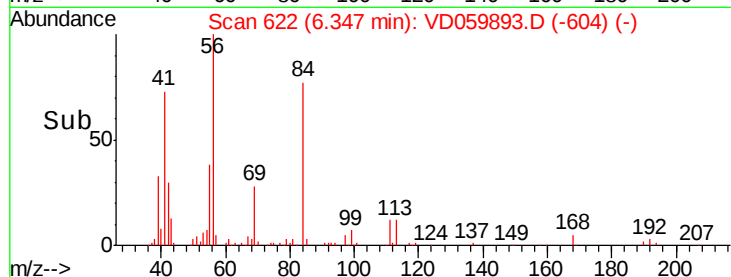
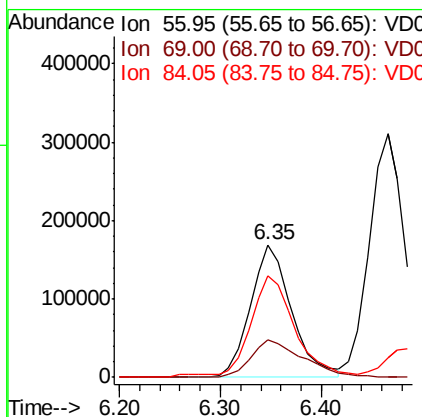
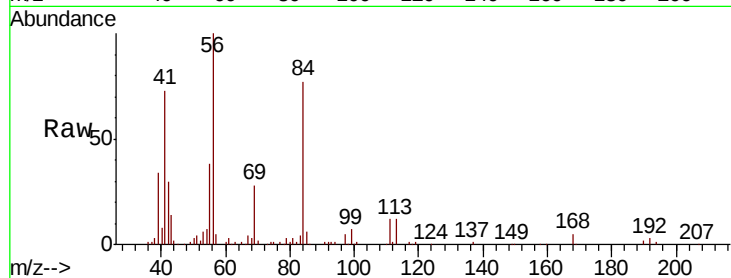
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	56	Resp:	478235
Ion	Ratio	Lower	Upper
56	100		
69	28.4	22.4	33.6
84	77.0	62.1	93.1

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#32

1,1,1-Trichloroethane

Concen: 51.36 ug/l

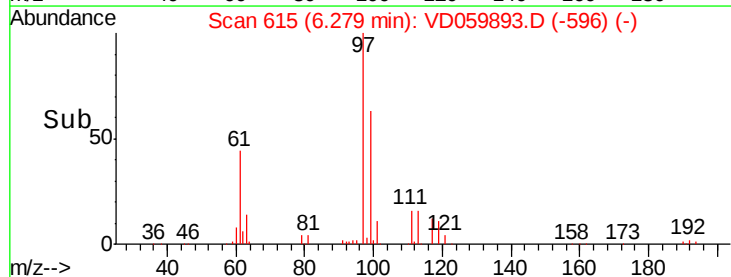
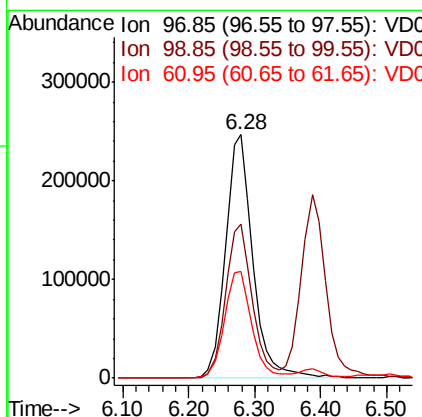
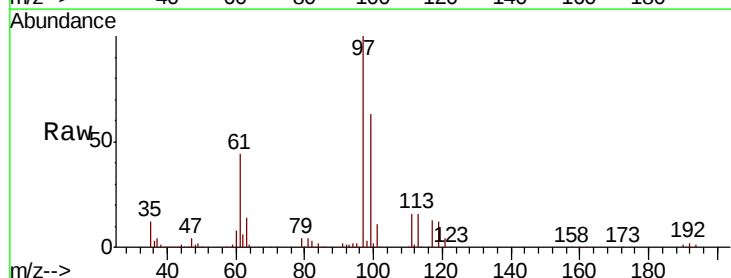
RT: 6.28 min Scan# 615

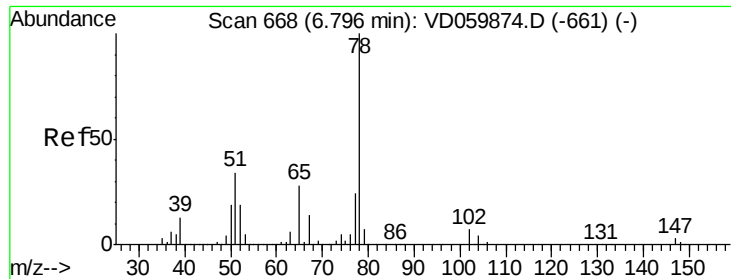
Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion:	97	Resp:	713977
Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	43.6	35.4	53.2





#33

1,2-Dichloroethane-d4

Concen: 51.36 ug/l

RT: 6.77 min Scan# 665

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 65 Resp: 413738

Ion Ratio Lower Upper

65 100

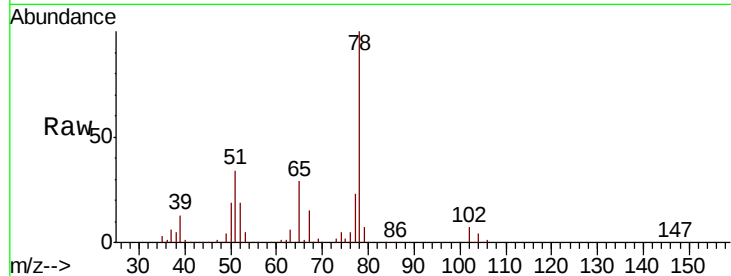
67 51.4 0.0 103.8

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

200000

150000

100000

50000

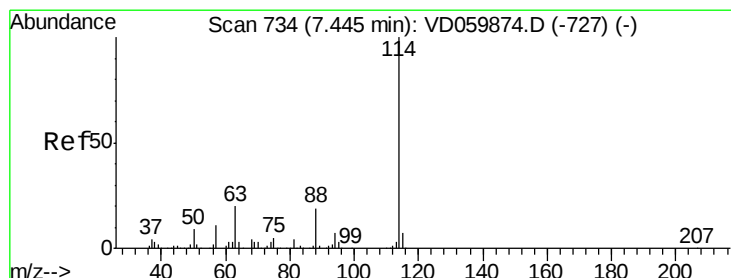
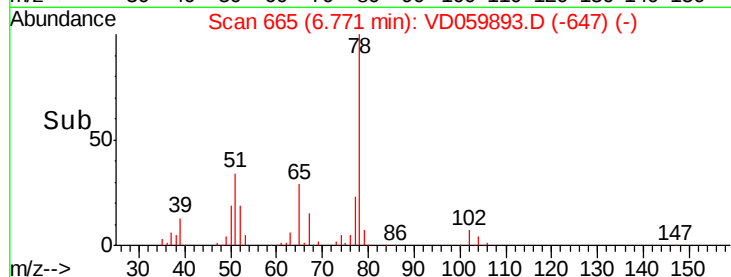
0

6.77

6.80

6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.43 min Scan# 732

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

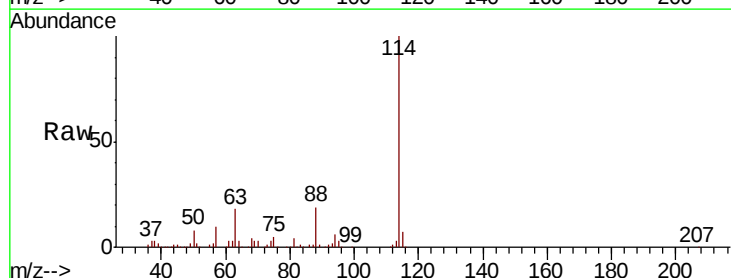
Tgt Ion: 114 Resp: 1308273

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.4

88 18.7 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

400000

200000

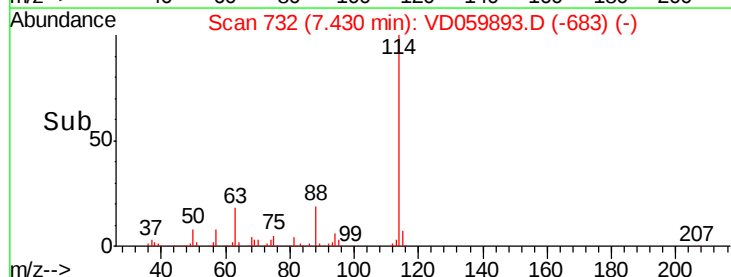
0

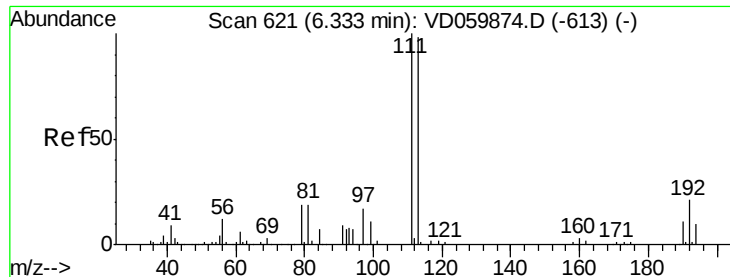
7.43

7.60

7.80

Time-->





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.31 min Scan# 618

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

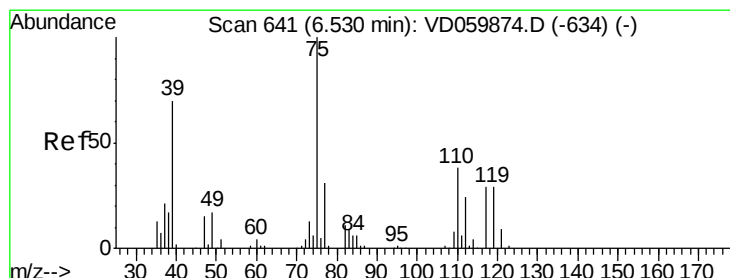
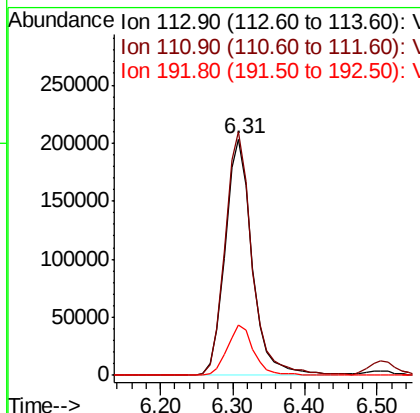
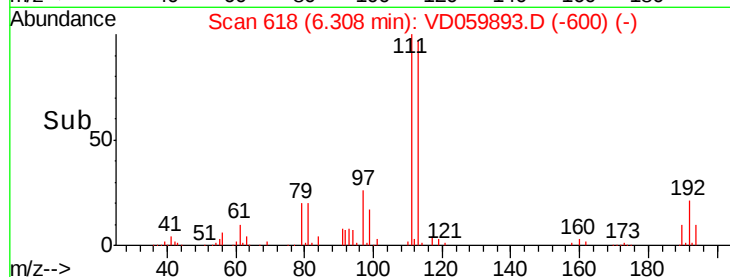
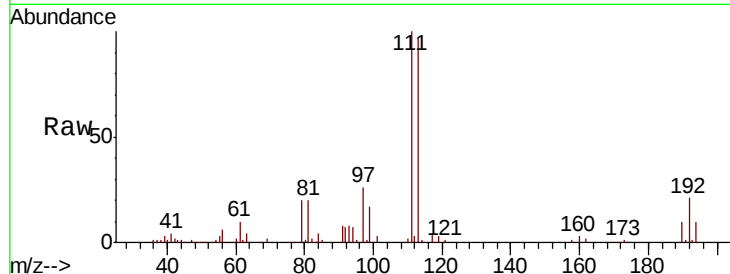
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	113	Resp:	528322
Ion Ratio	Lower	Upper	
113	100		
111	103.1	81.4	122.2
192	21.5	17.0	25.6

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#36

1,1-Dichloropropene

Concen: 43.77 ug/l

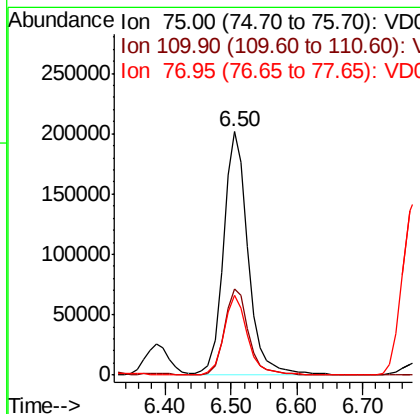
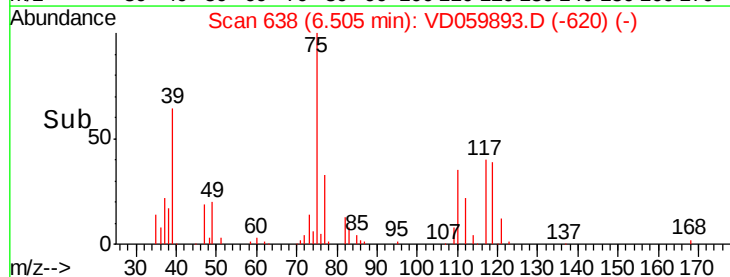
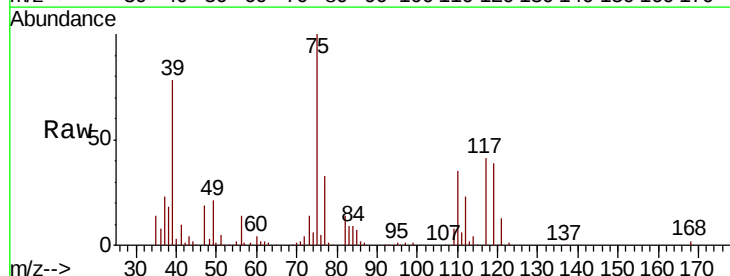
RT: 6.50 min Scan# 638

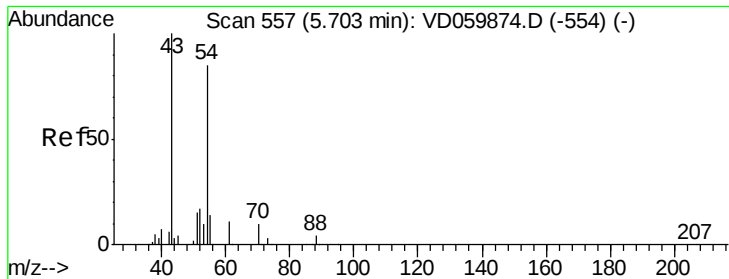
Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion:	75	Resp:	519064
Ion Ratio	Lower	Upper	
75	100		
110	35.4	18.6	56.0
77	32.9	25.1	37.7





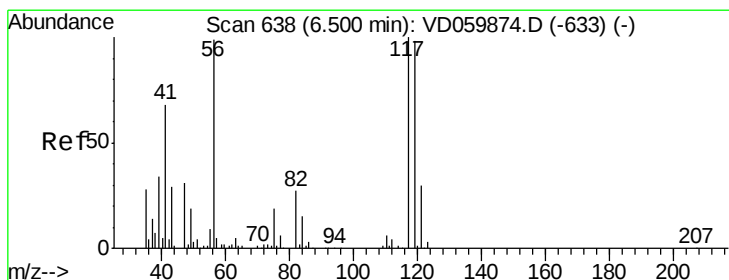
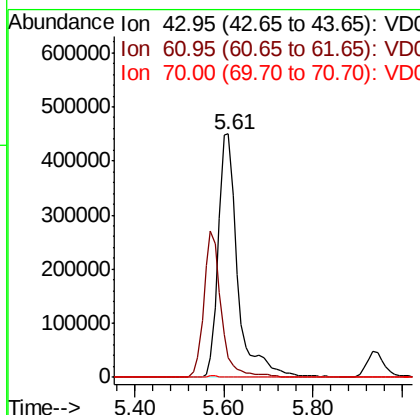
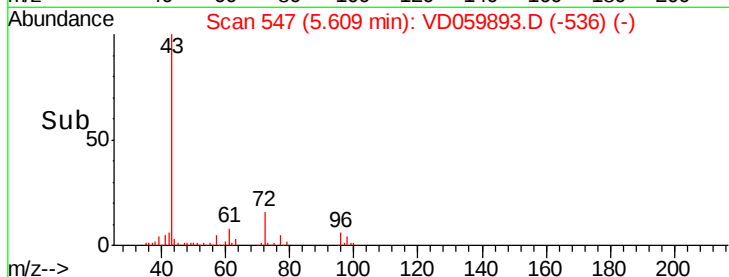
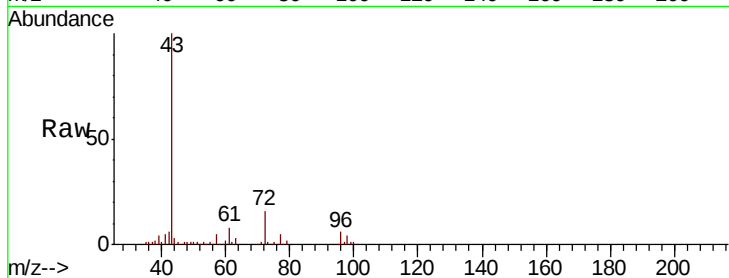
#37
Ethyl Acetate
Concen: 147.57 ug/l
RT: 5.61 min Scan# 547
Delta R.T. -0.09 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 43 Resp: 1361822
Ion Ratio Lower Upper
43 100
61 8.2 11.0 16.6#
70 0.1 5.7 8.5#

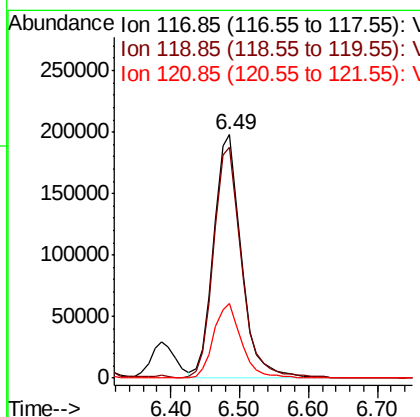
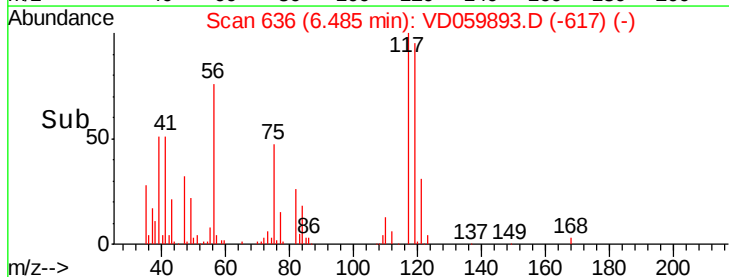
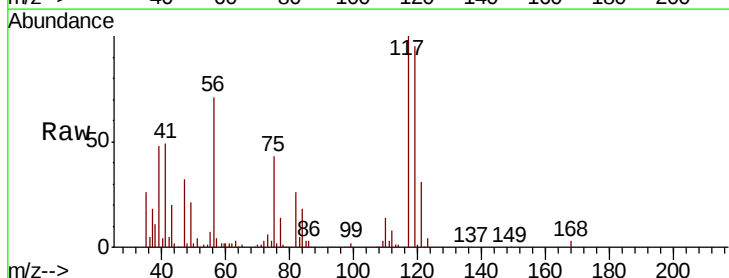
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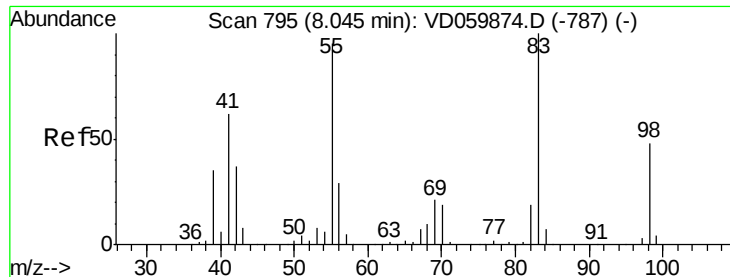
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#38
Carbon Tetrachloride
Concen: 45.60 ug/l
RT: 6.49 min Scan# 636
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion: 117 Resp: 545713
Ion Ratio Lower Upper
117 100
119 94.9 77.2 115.8
121 30.8 24.0 36.0





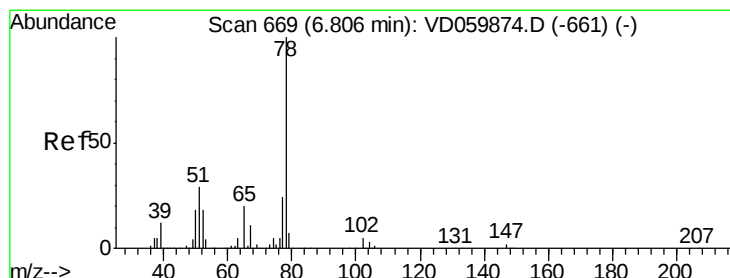
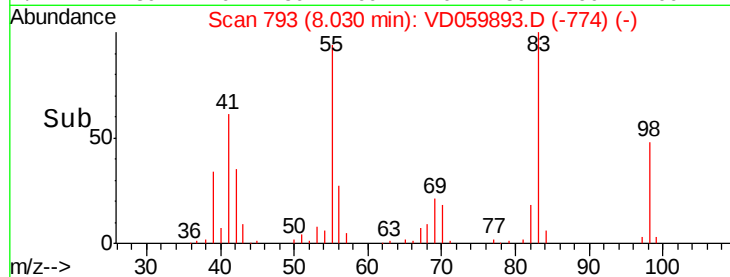
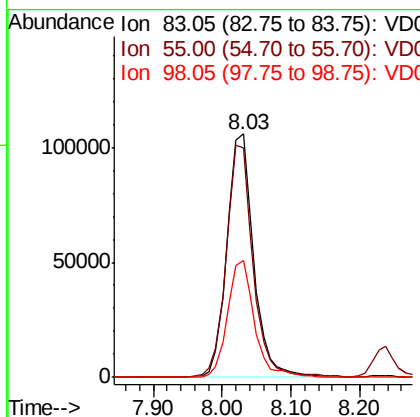
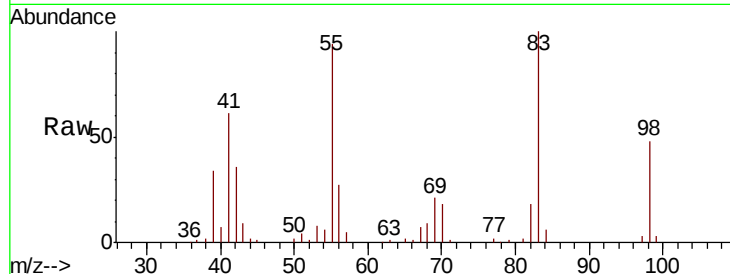
#39
Methvlcvclohexane
Concen: 22.15 ug/l
RT: 8.03 min Scan# 793
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.4	75.8	113.6
98	48.3	38.3	57.5

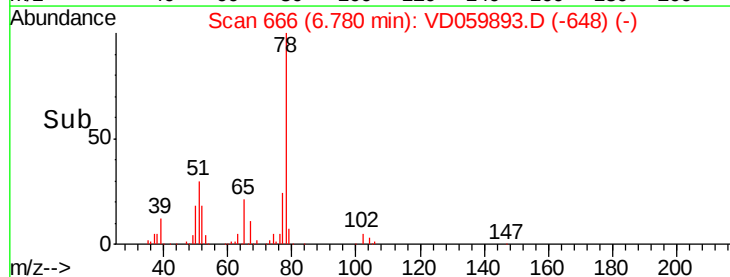
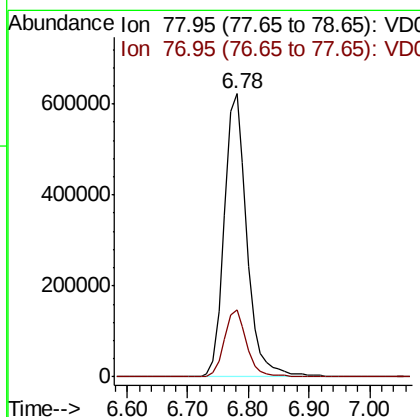
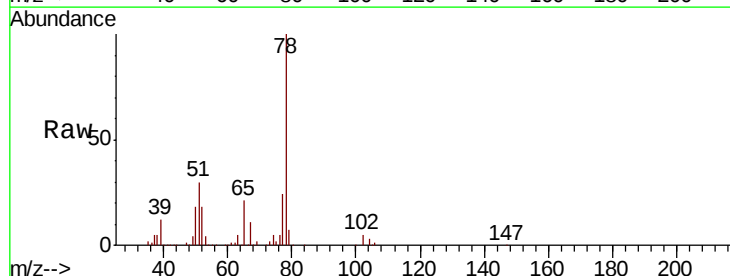
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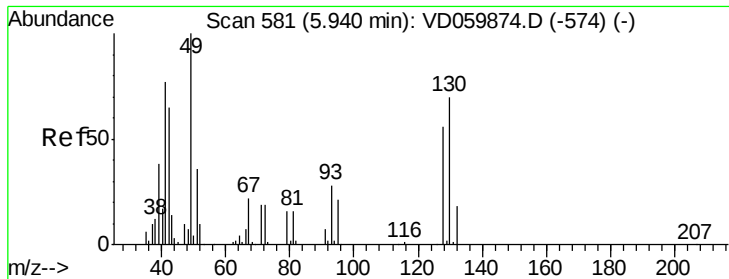
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#40
Benzene
Concen: 52.34 ug/l
RT: 6.78 min Scan# 666
Delta R.T. -0.03 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4





#41

Methacrylonitrile

Concen: 54.73 ug/l m

RT: 5.91 min Scan# 578

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

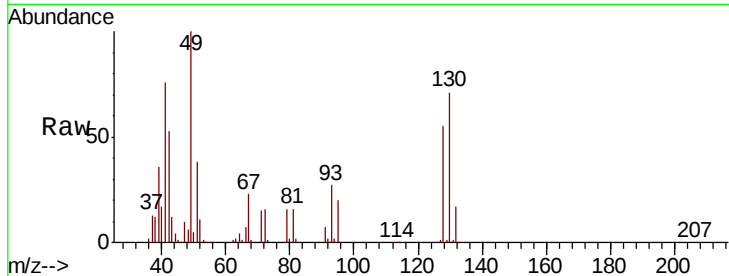
ClientSampleId :

RA-081718-WSW-20-053

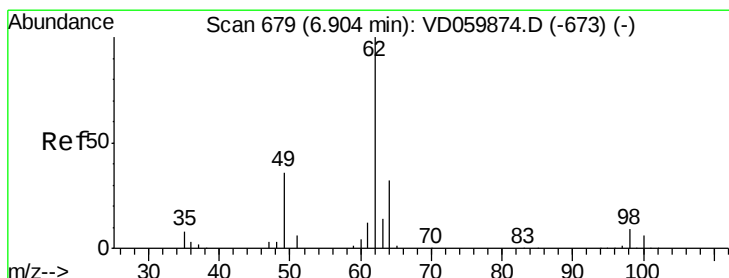
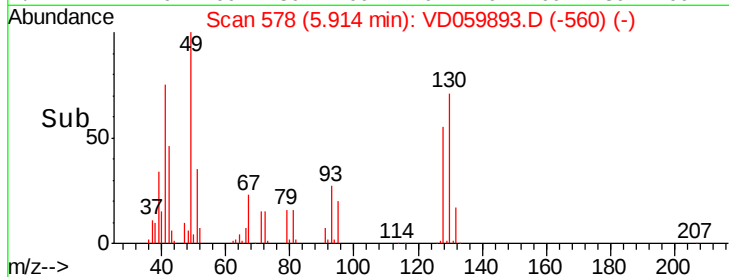
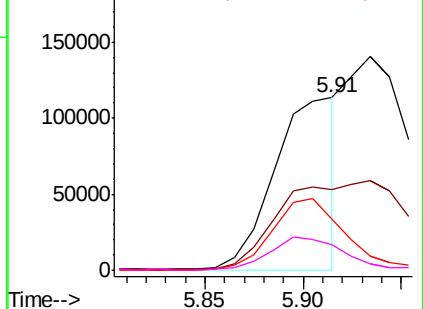
Tot Ion	Ratio	Lower	Upper
41	100		
39	47.1	39.4	59.2
67	30.0	22.2	33.2
52	14.9	10.1	15.1

Manual Integrations
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Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 54.34 ug/l

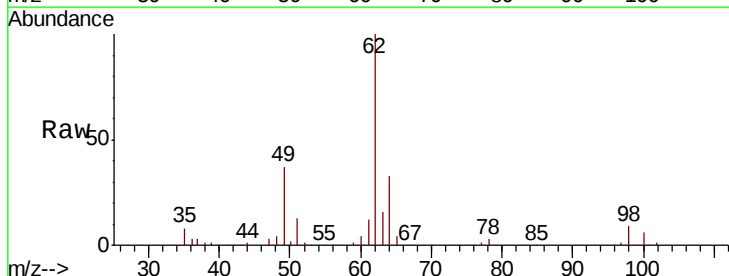
RT: 6.88 min Scan# 676

Delta R.T. -0.03 min

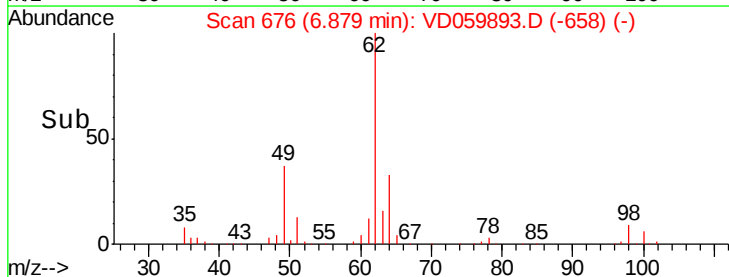
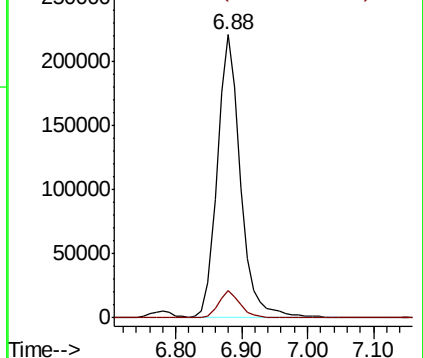
Lab File: VD059893.D

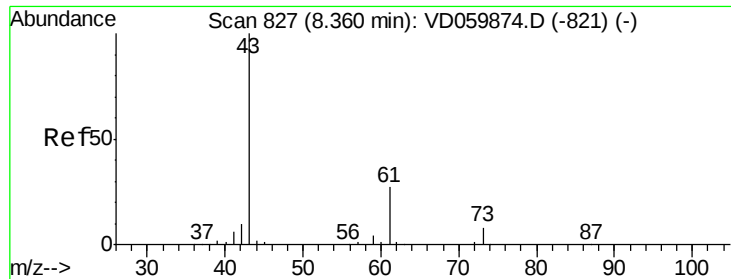
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

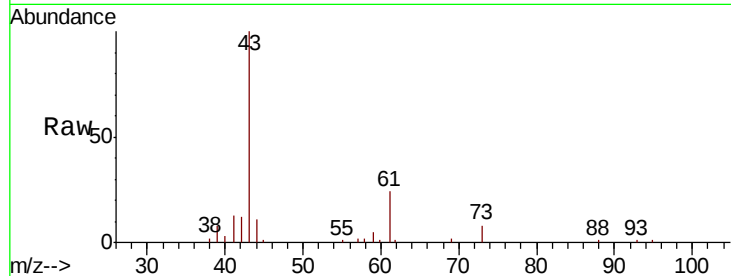
Isopropyl Acetate
 Concen: 6.33 ug/l
 RT: 8.34 min Scan# 824
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

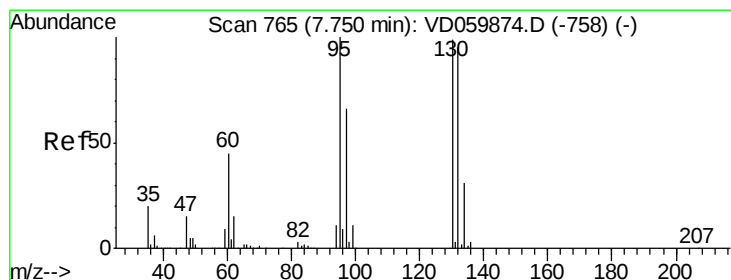
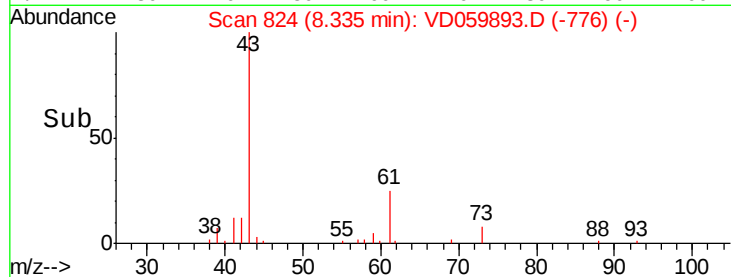
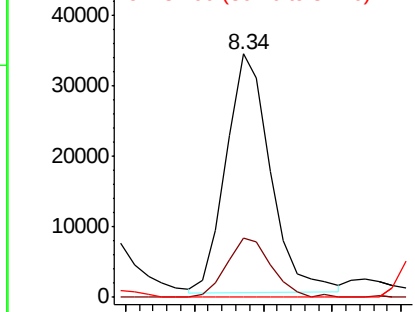
Tot Ion	Ratio	Lower	Upper
43	100		
61	24.2	21.4	32.2
87	0.0	0.2	0.4

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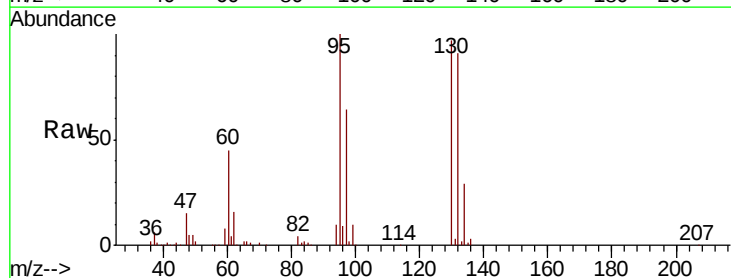
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



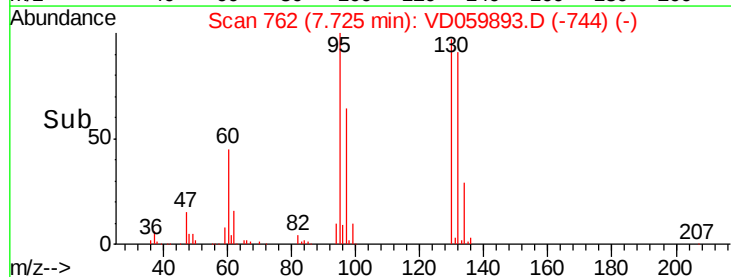
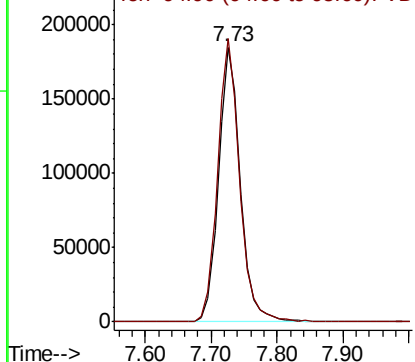
#44

Trichloroethene
 Concen: 46.67 ug/l
 RT: 7.73 min Scan# 762
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.1	0.0	202.0



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





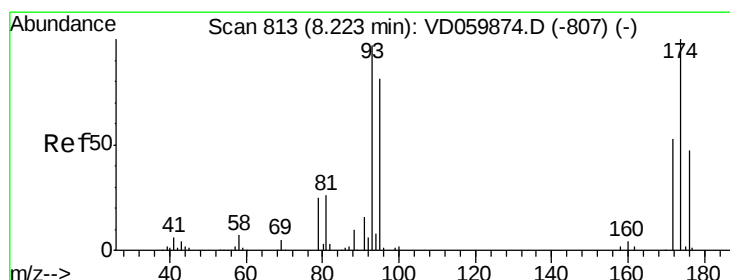
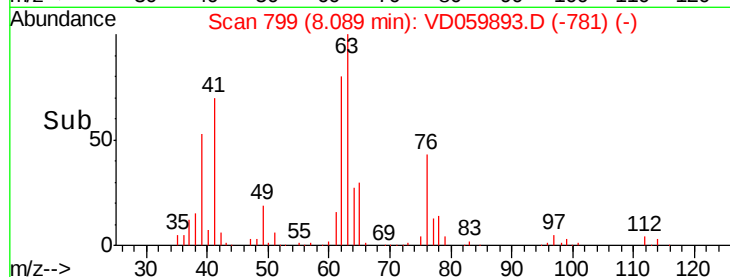
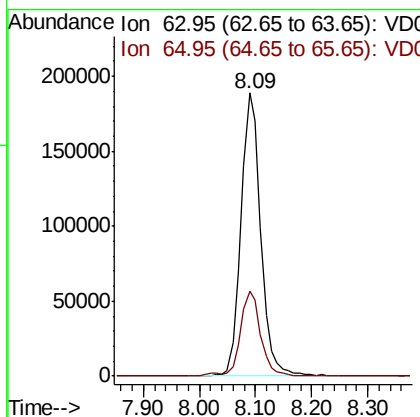
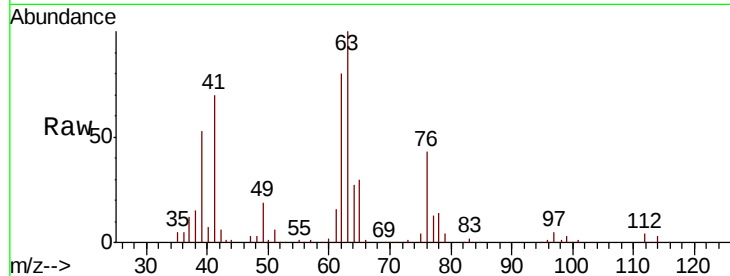
#45
 1,2-Dichloropropane
 Concen: 53.50 ug/l
 RT: 8.09 min Scan# 799
 Delta R.T. -0.03 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion: 63 Resp: 461106
 Ion Ratio Lower Upper
 63 100
 65 30.2 23.5 35.3

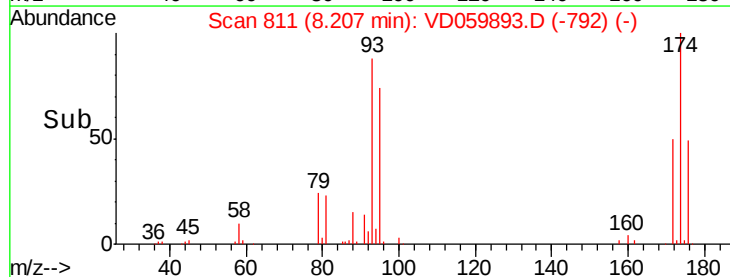
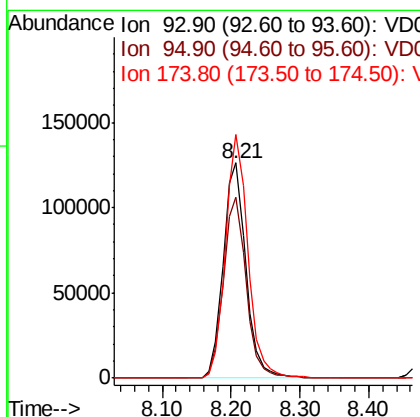
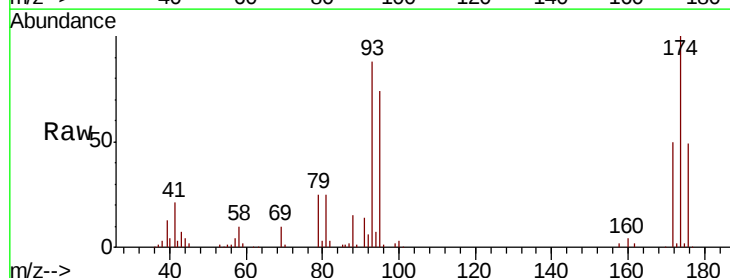
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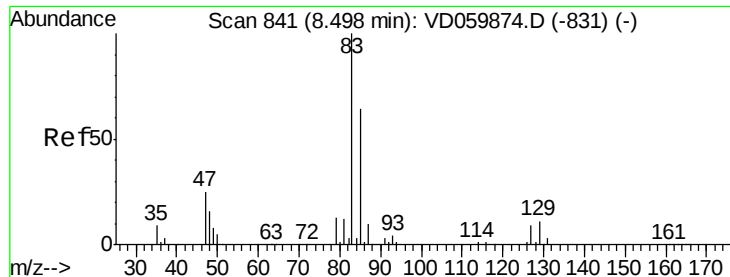
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#46
 Dibromomethane
 Concen: 51.96 ug/l
 RT: 8.21 min Scan# 811
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion: 93 Resp: 287979
 Ion Ratio Lower Upper
 93 100
 95 84.2 66.6 100.0
 174 113.1 82.4 123.6





#47

Bromodichloromethane

Concen: 52.80 ug/l

RT: 8.48 min Scan# 839

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

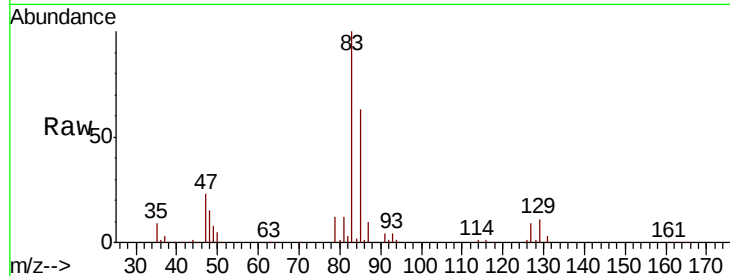
ClientSampleId :

RA-081718-WSW-20-053

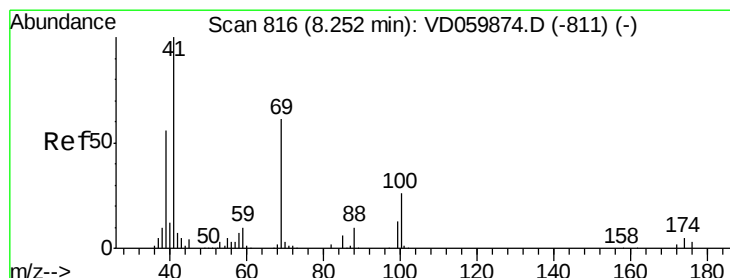
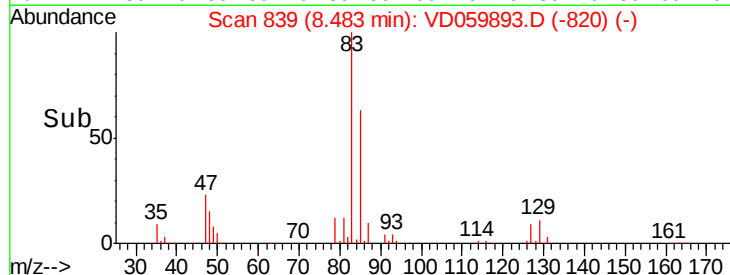
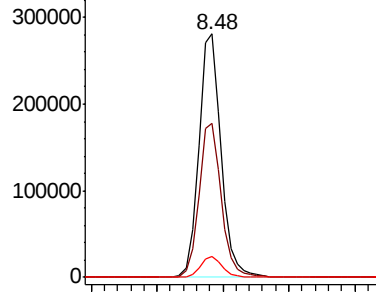
Tot Ion:	83	Resp:	662434
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.3	76.9
127	8.8	7.0	10.4

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



#48

Methyl methacrylate

Concen: 71.14 ug/l

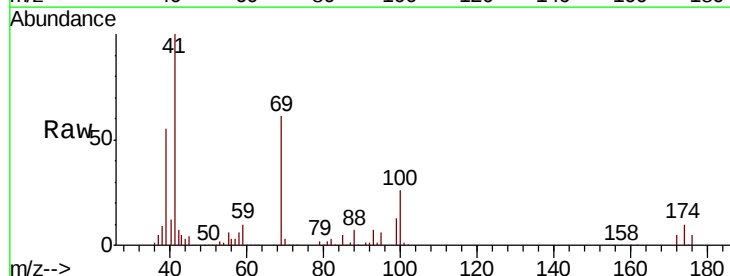
RT: 8.24 min Scan# 814

Delta R.T. -0.02 min

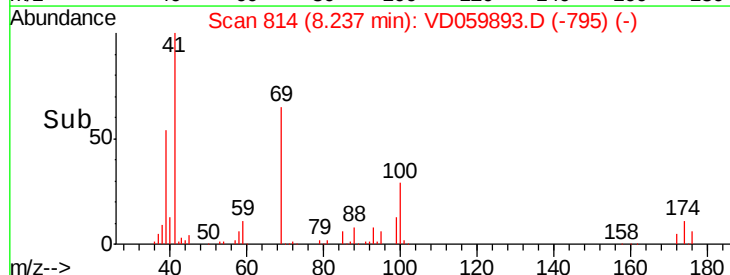
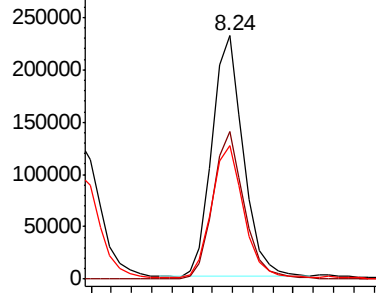
Lab File: VD059893.D

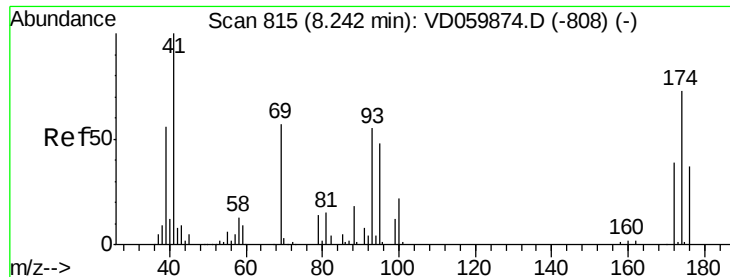
Acq: 23 Aug 2018 17:33

Tgt Ion:	41	Resp:	497919
Ion	Ratio	Lower	Upper
41	100		
69	60.7	48.0	72.0
39	55.0	45.4	68.0



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





#49

1,4-Dioxane

Concen: 1269.68 ug/l

RT: 8.22 min Scan# 812

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 88 Resp: 79335

Ion Ratio Lower Upper

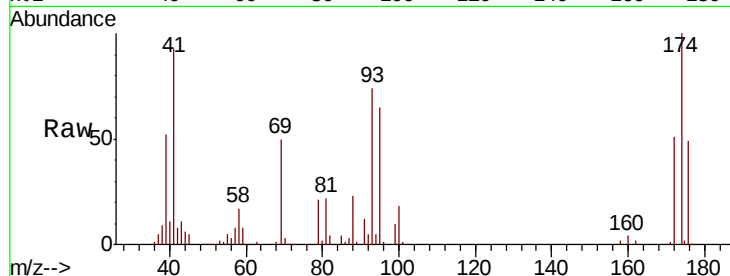
88 100

43 46.3 45.0 67.6

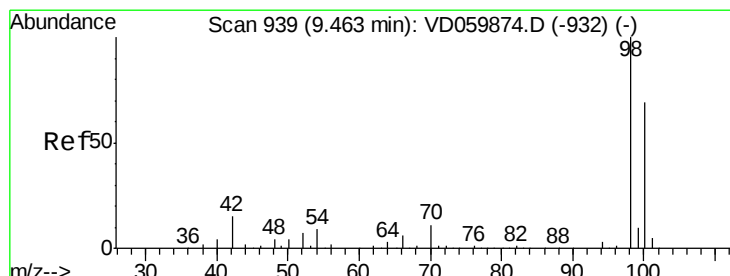
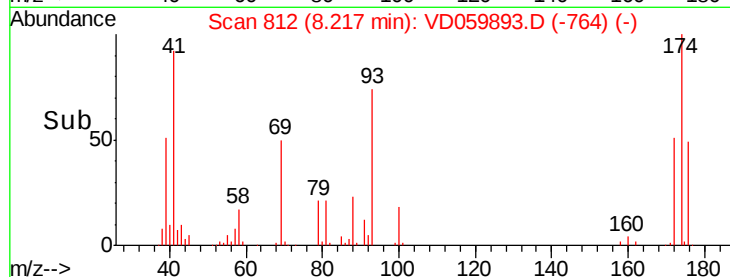
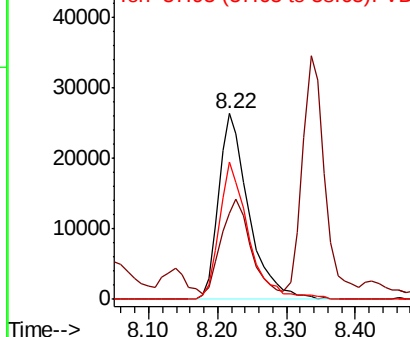
58 74.0 55.8 83.8

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



#50

Toluene-d8

Concen: 1269.68 ug/l

RT: 9.45 min Scan# 937

Delta R.T. -0.02 min

Lab File: VD059893.D

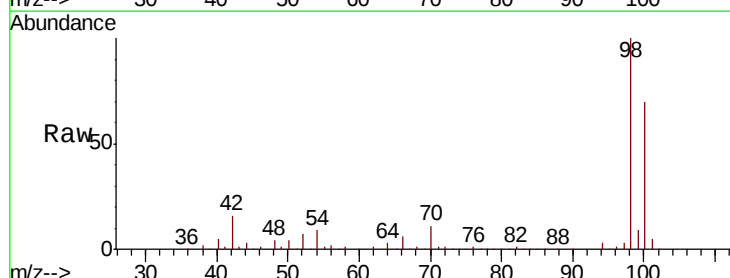
Acq: 23 Aug 2018 17:33

Tgt Ion: 98 Resp: 1258198

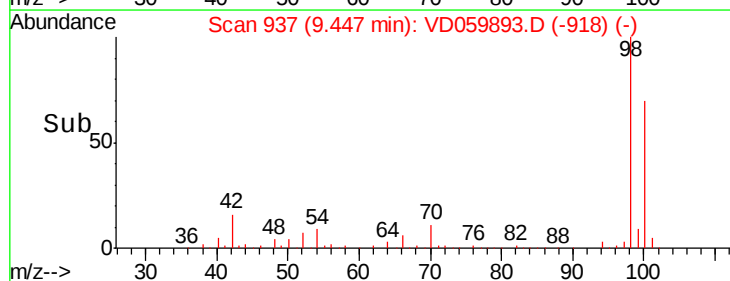
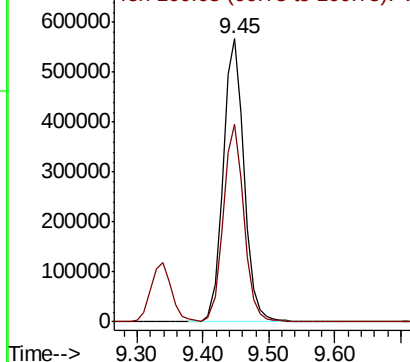
Ion Ratio Lower Upper

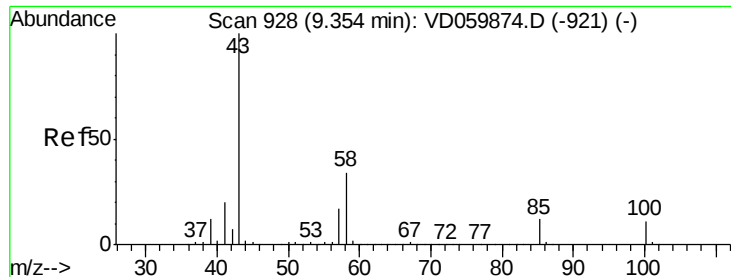
98 100

100 69.8 55.8 83.6



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





#51

4-Methyl-2-Pentanone

Concen: 304.64 ug/l

RT: 9.33 min Scan# 925

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tot Ion: 43 Resp: 2726800

Ion Ratio Lower Upper

43 100

58 32.7 27.0 40.4

Instrument :

MSVOA_D

ClientSampleId :

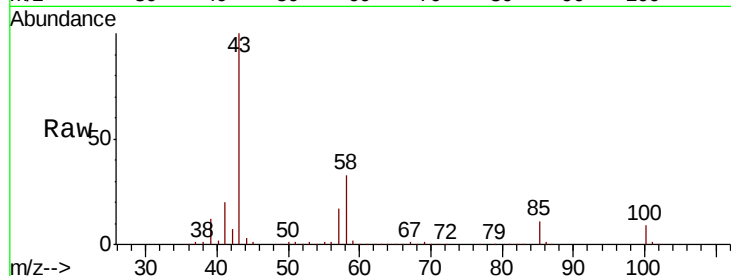
RA-081718-WSW-20-053

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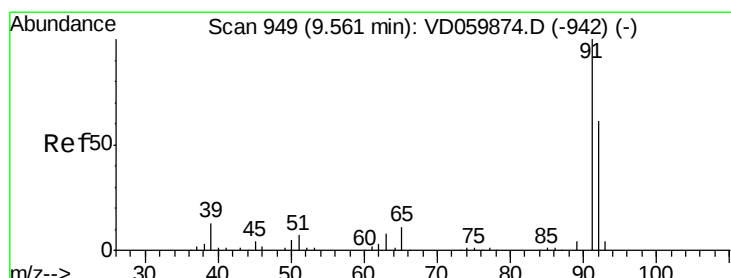
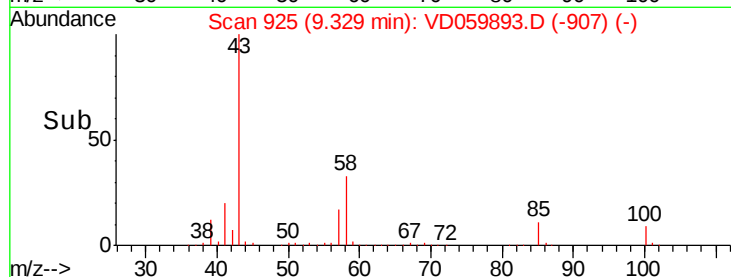
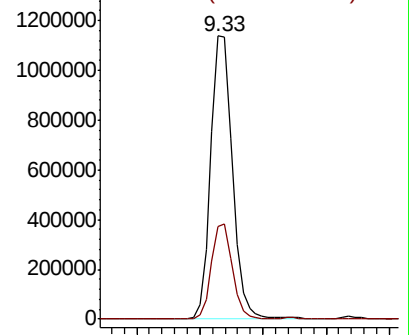
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 46.24 ug/l

RT: 9.54 min Scan# 946

Delta R.T. -0.03 min

Lab File: VD059893.D

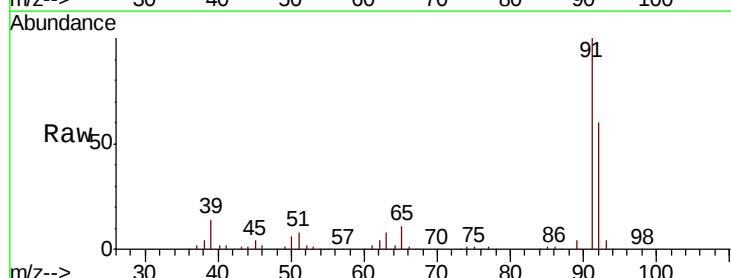
Acq: 23 Aug 2018 17:33

Tgt Ion: 92 Resp: 914350

Ion Ratio Lower Upper

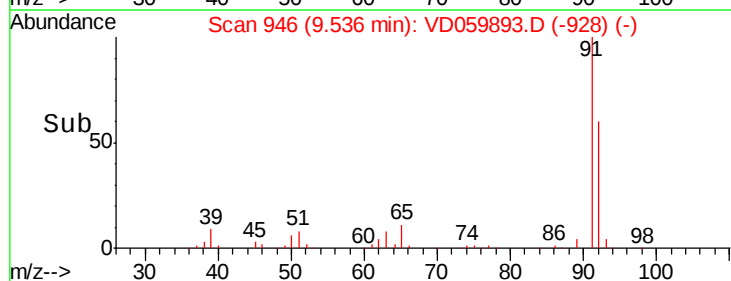
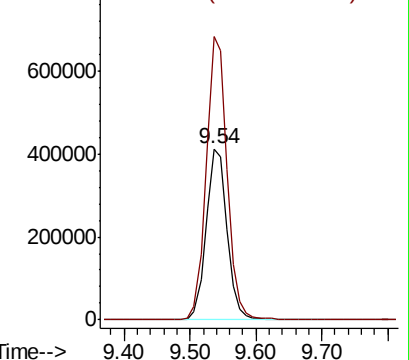
92 100

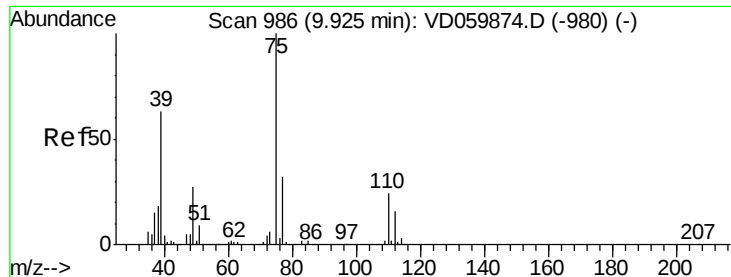
91 165.5 131.4 197.2



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: 43.21 ug/l

RT: 9.91 min Scan# 984

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 75 Resp: 501453

Ion Ratio Lower Upper

75 100

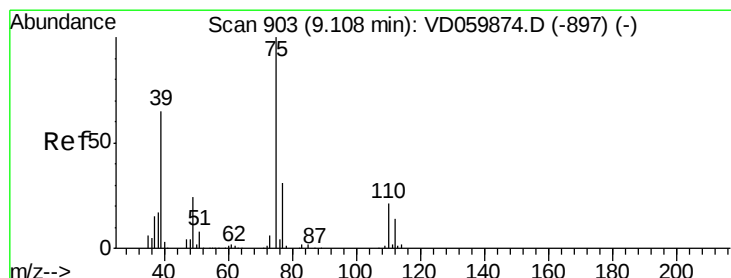
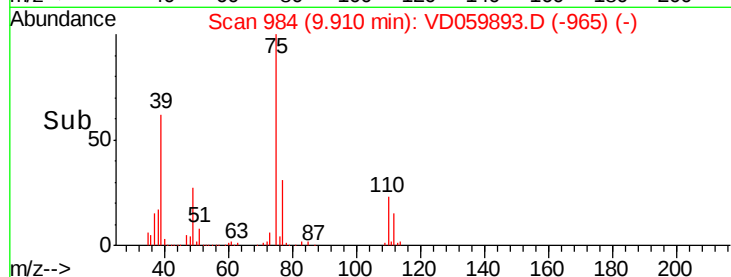
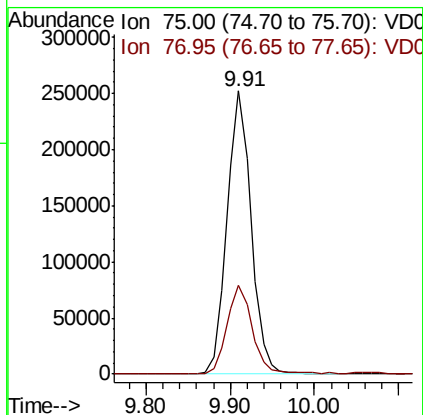
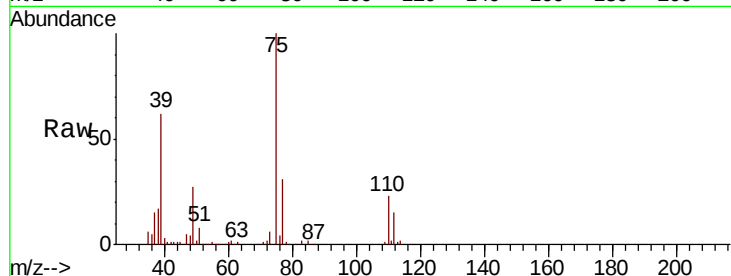
77 31.5 25.4 38.2

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#54

cis-1,3-Dichloropropene

Concen: 44.96 ug/l

RT: 9.09 min Scan# 901

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

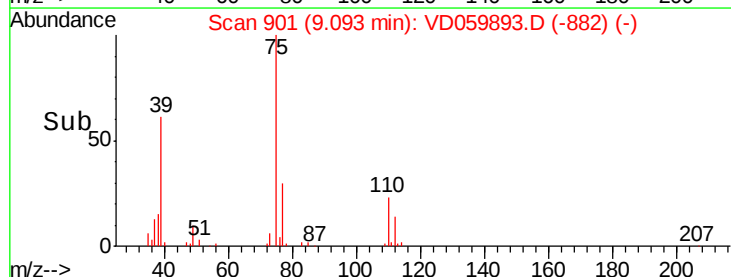
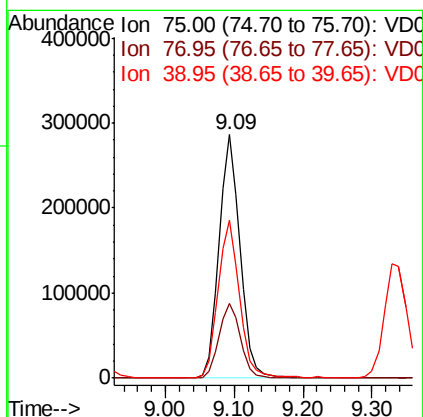
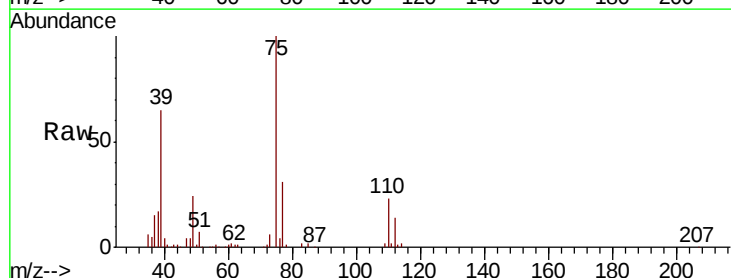
Tgt Ion: 75 Resp: 604908

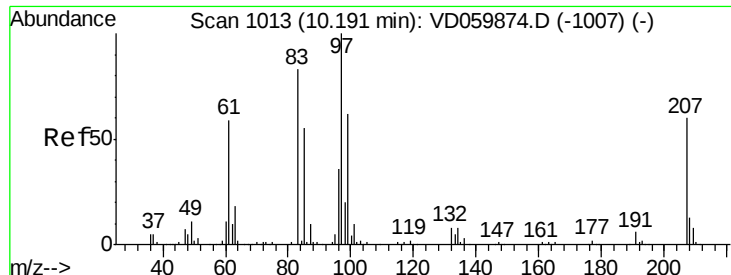
Ion Ratio Lower Upper

75 100

77 30.8 24.8 37.2

39 64.8 52.1 78.1





#55

1,1,2-Trichloroethane

Concen: 51.21 ug/l

RT: 10.18 min Scan# 1011

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 97 Resp: 370128

Ion Ratio Lower Upper

97 100

83 85.2 66.7 100.1

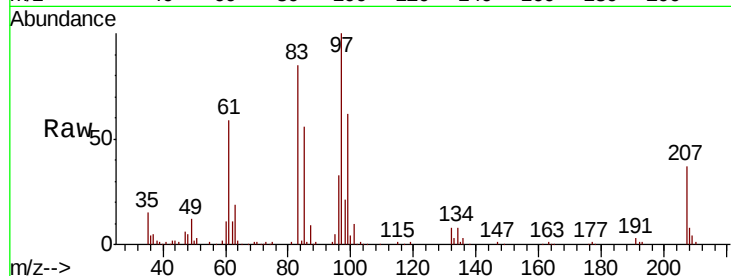
85 55.9 43.8 65.6

99 62.2 49.8 74.6

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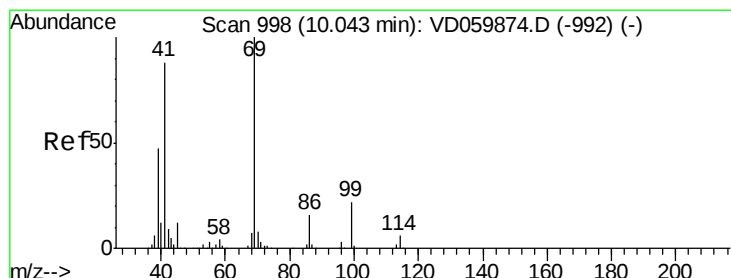
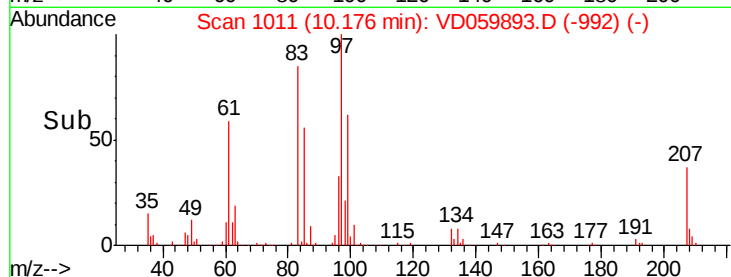
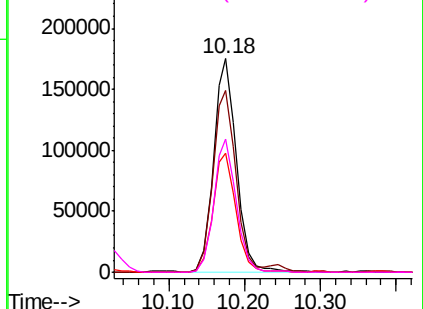


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 21.73 ug/l

RT: 10.02 min Scan# 995

Delta R.T. -0.03 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

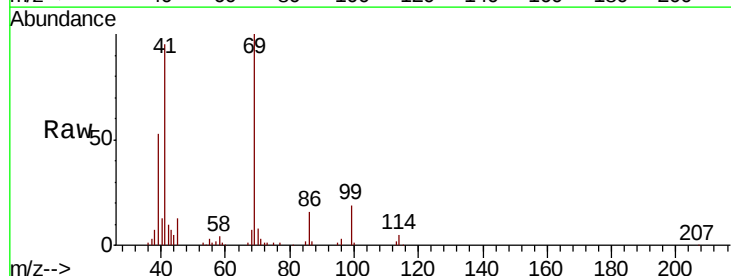
Tgt Ion: 69 Resp: 181289

Ion Ratio Lower Upper

69 100

41 95.0 71.0 106.4

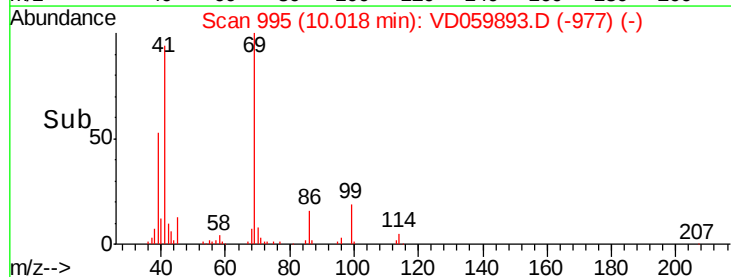
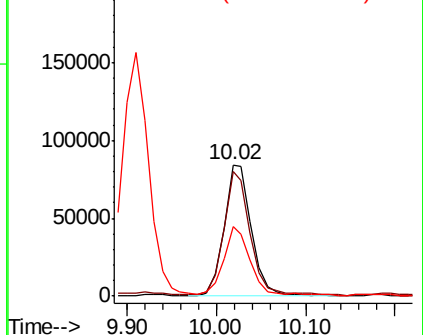
39 53.4 38.5 57.7

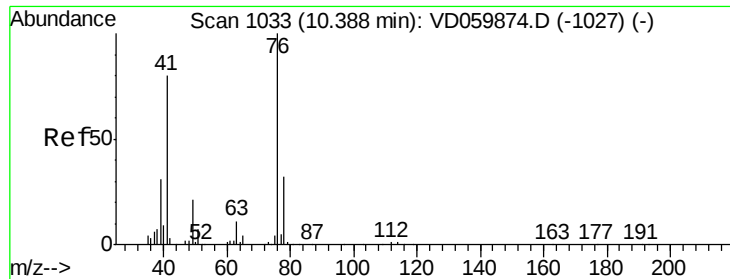


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 52.82 ug/l

RT: 10.37 min Scan# 1031

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 76 Resp: 552595

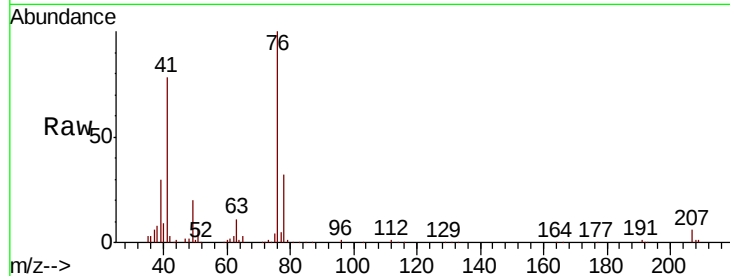
Ion Ratio Lower Upper

76 100

78 31.6 25.8 38.6

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.37

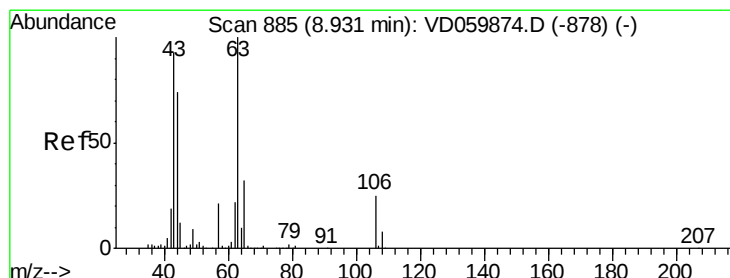
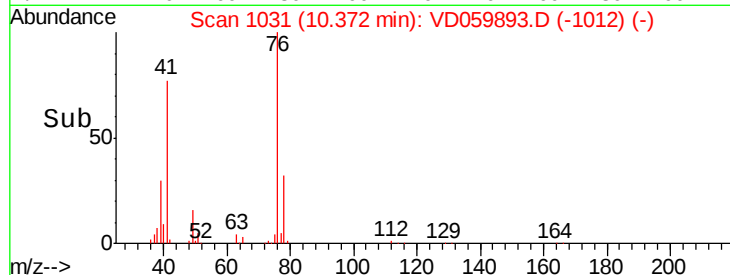
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 256.19 ug/l

RT: 8.92 min Scan# 883

Delta R.T. -0.02 min

Lab File: VD059893.D

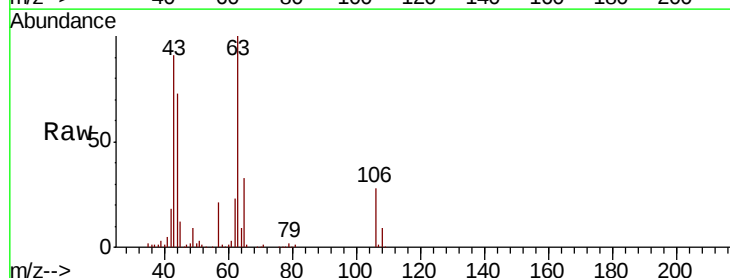
Acq: 23 Aug 2018 17:33

Tgt Ion: 63 Resp: 1025214

Ion Ratio Lower Upper

63 100

106 27.6 20.1 30.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.92

500000

400000

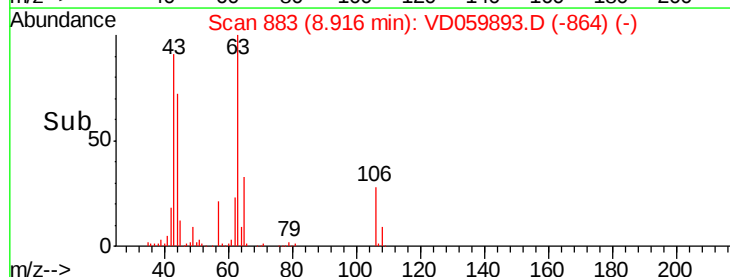
300000

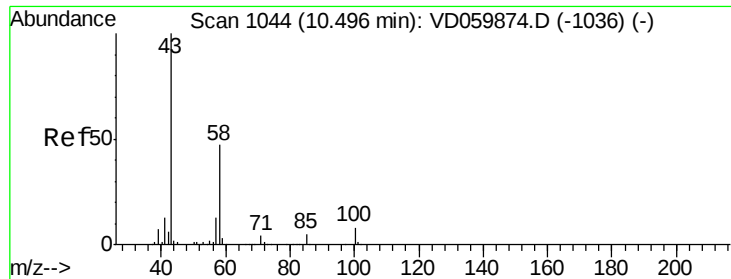
200000

100000

0

Time-->





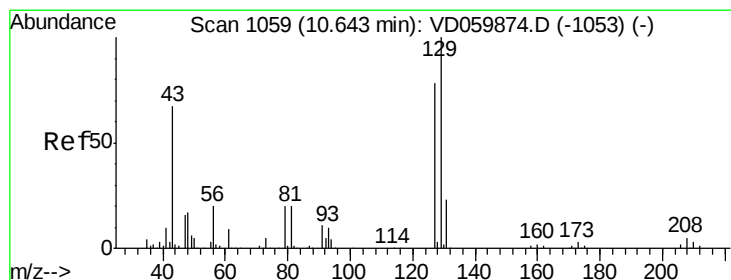
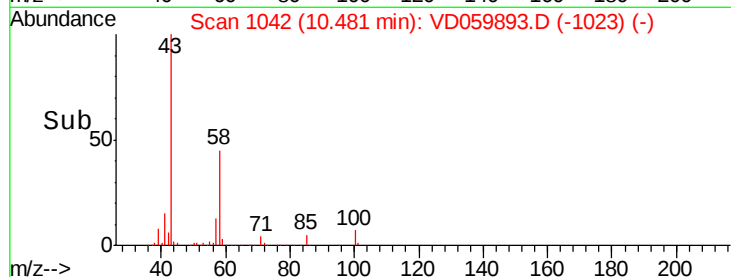
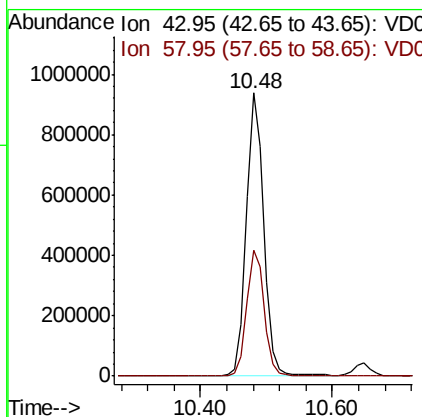
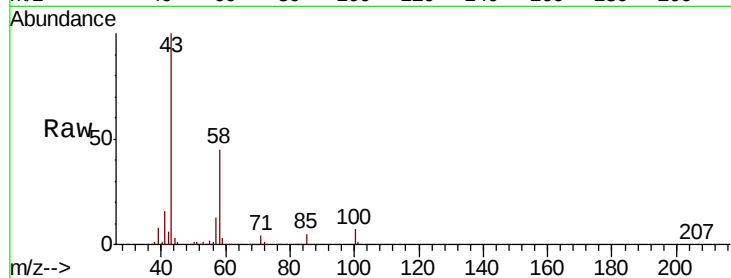
#59
2-Hexanone
Concen: 264.25 ug/l
RT: 10.48 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 43 Resp: 1744560
Ion Ratio Lower Upper
43 100
58 44.5 23.3 69.8

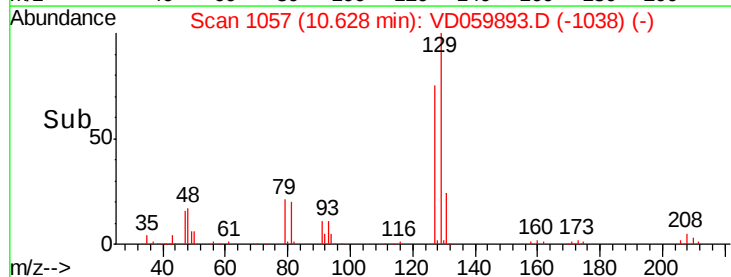
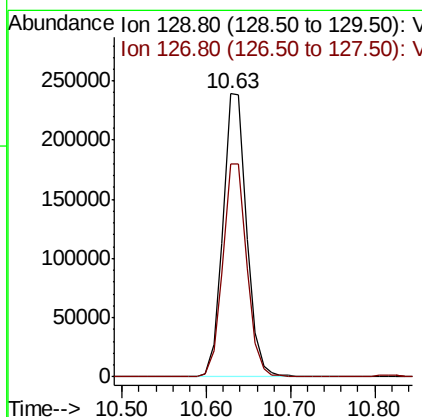
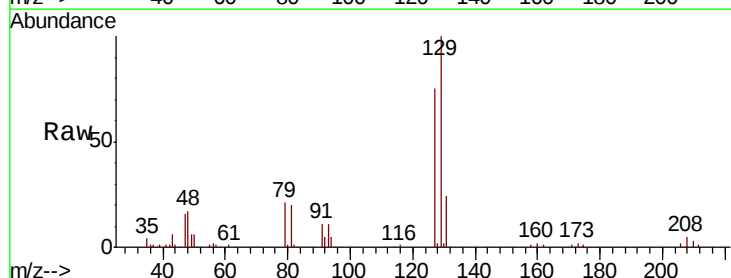
Manual Integrations
APPROVED

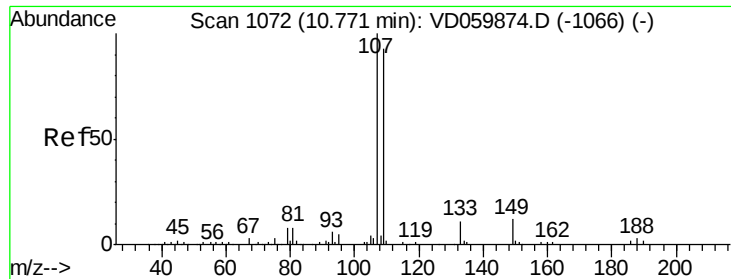
MMDadoda
8/24/2018 3:09:31 PM



#60
Dibromochloromethane
Concen: 51.43 ug/l
RT: 10.63 min Scan# 1057
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion:129 Resp: 467230
Ion Ratio Lower Upper
129 100
127 75.4 39.1 117.2





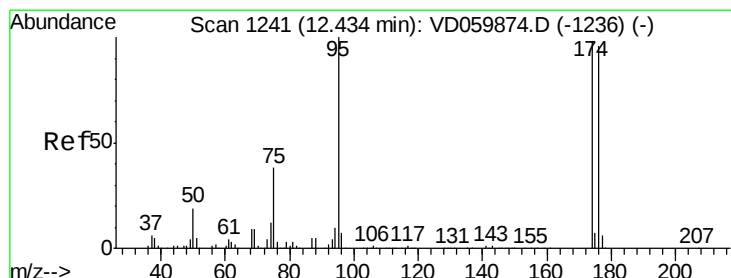
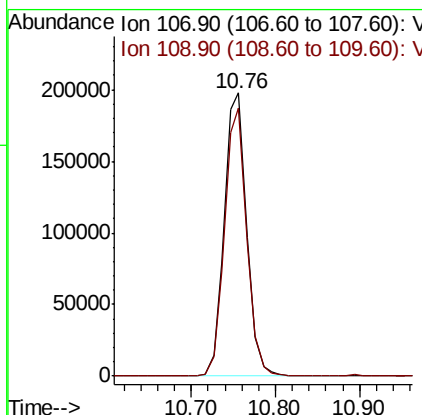
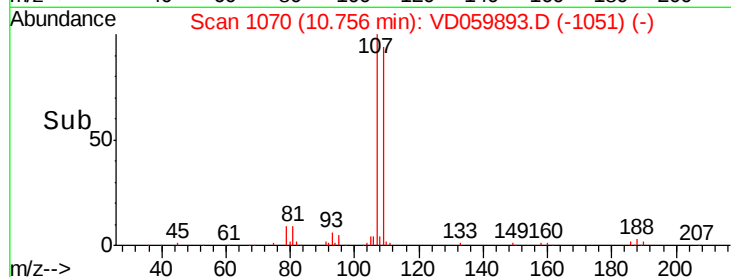
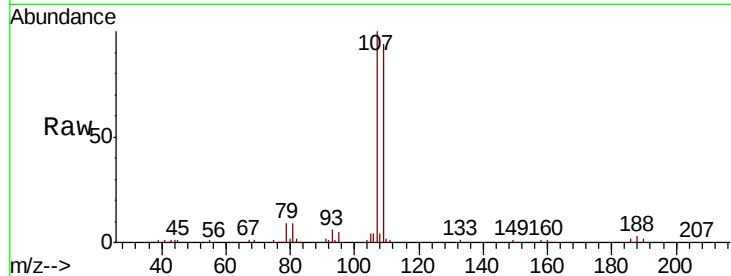
#61
 1,2-Dibromoethane
 Concen: 49.77 ug/l
 RT: 10.76 min Scan# 1070
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.6	112.0

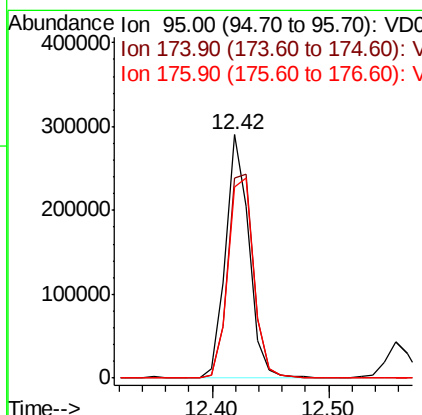
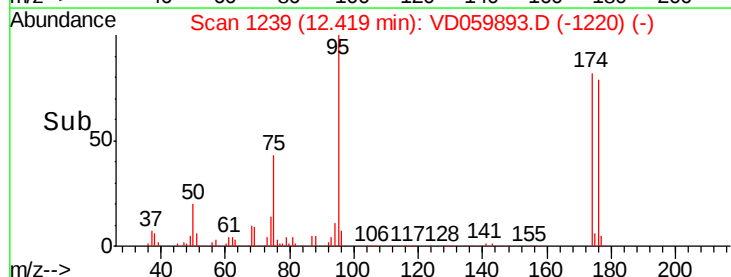
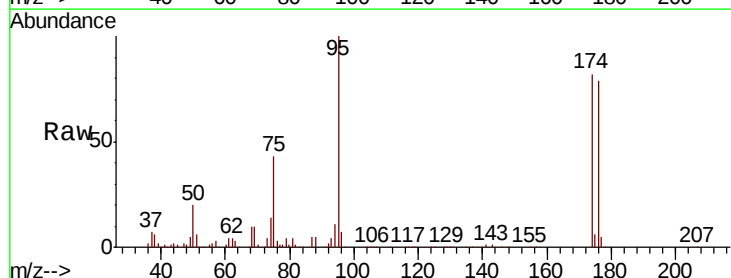
Manual Integrations
 APPROVED

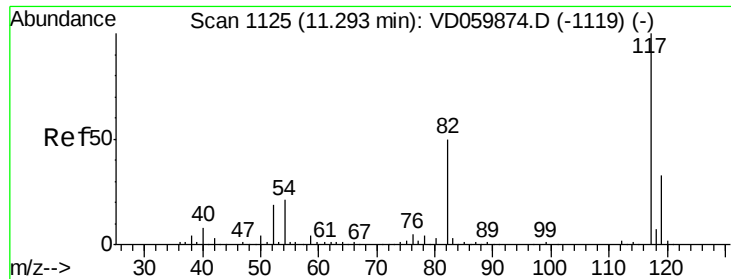
MMDadoda
 8/24/2018 3:09:31 PM



#62
 4-Bromofluorobenzene
 Concen: 49.77 ug/l
 RT: 12.42 min Scan# 1239
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	195.6
176	78.6	0.0	191.2





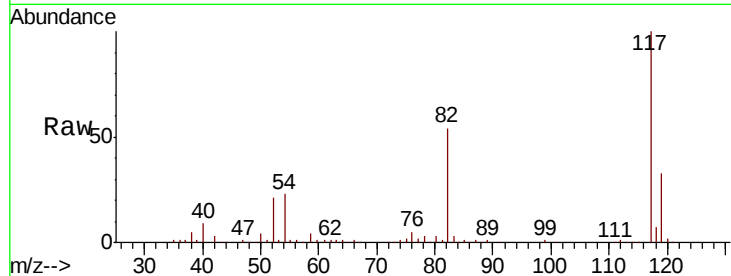
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.28 min Scan# 1123
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Resp	Lower	Upper
117	100	897215		
82	54.1		40.1	60.1
119	32.5		26.7	40.1

Manual Integrations
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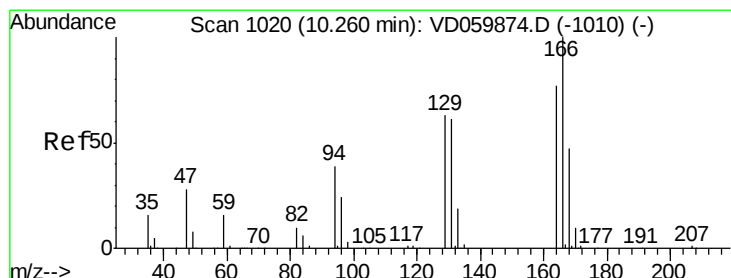
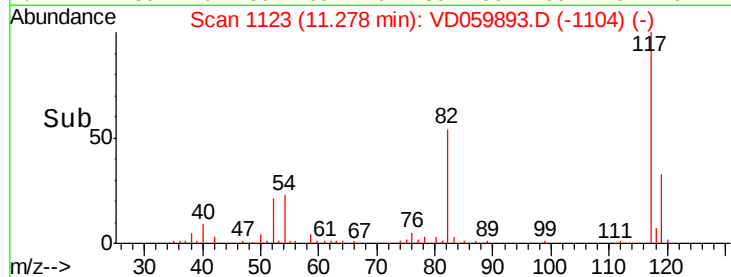
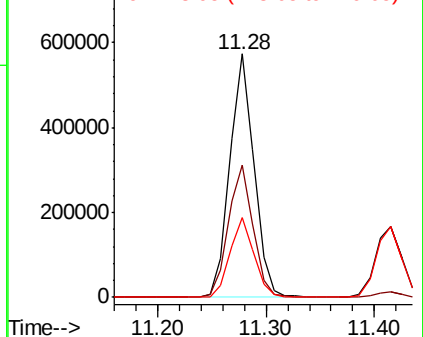


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 65.99 ug/l
RT: 10.24 min Scan# 1018
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	457821		
166	133.1		103.4	155.2
129	80.7		65.2	97.8
131	77.9		63.1	94.7

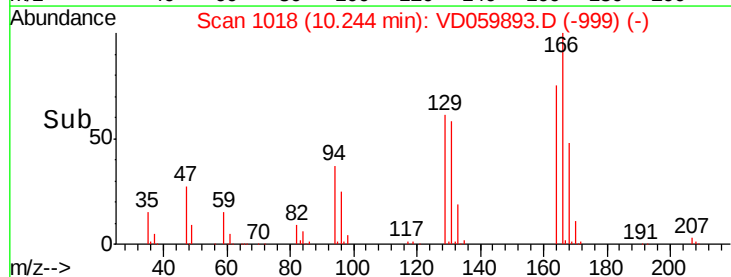
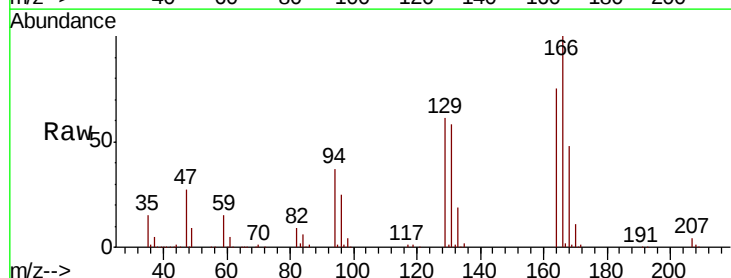
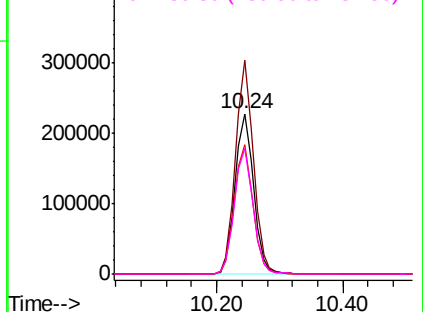
Abundance

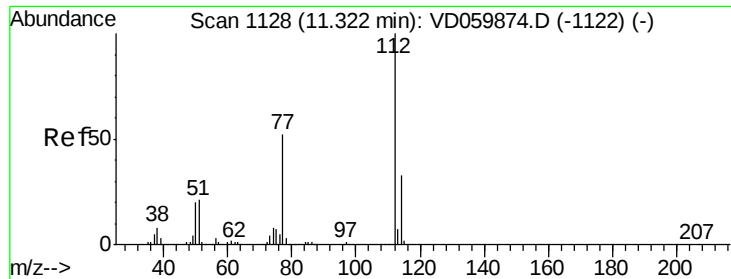
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





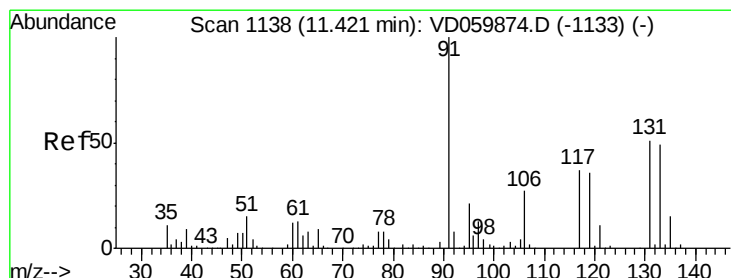
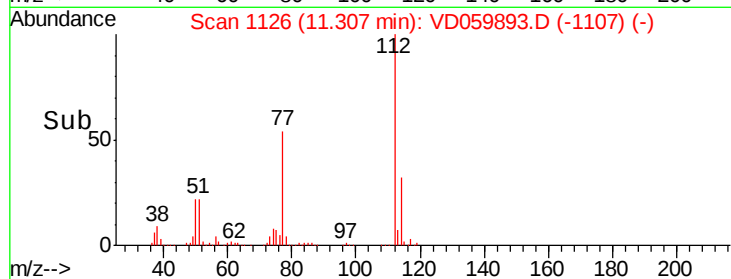
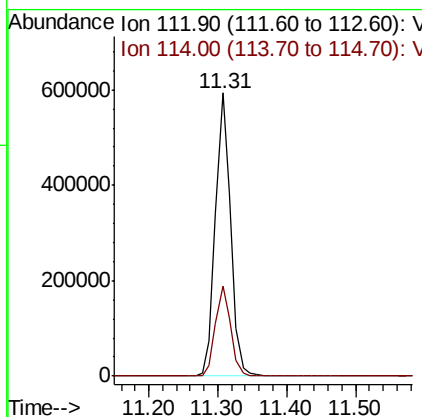
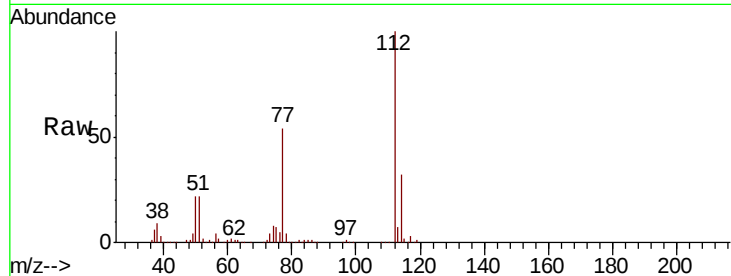
#65
Chlorobenzene
Concen: 50.63 ug/l
RT: 11.31 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion:112 Resp: 902703
Ion Ratio Lower Upper
112 100
114 32.0 26.4 39.6

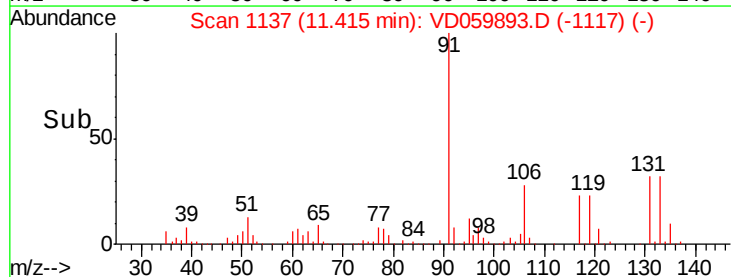
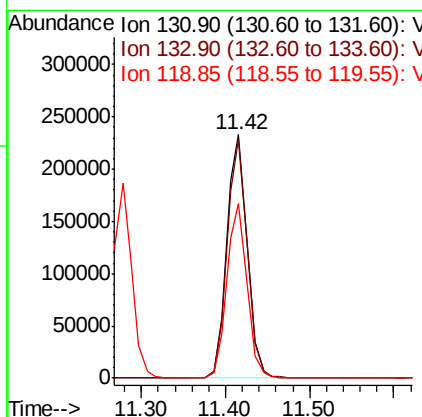
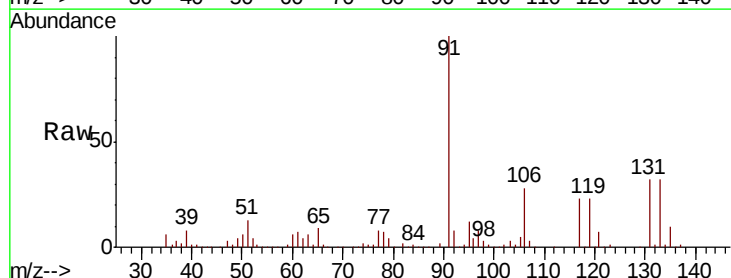
Manual Integrations
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#66
1,1,1,2-Tetrachloroethane
Concen: 59.61 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion:131 Resp: 388309
Ion Ratio Lower Upper
131 100
133 97.9 48.3 144.8
119 71.8 35.4 106.3





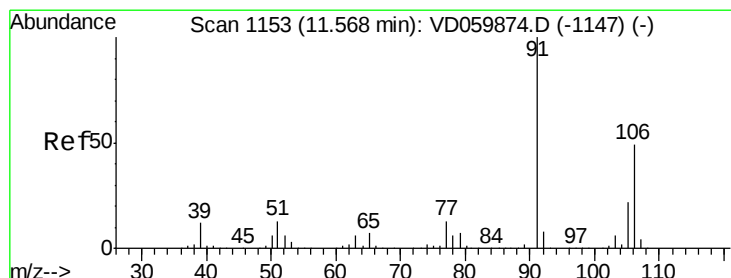
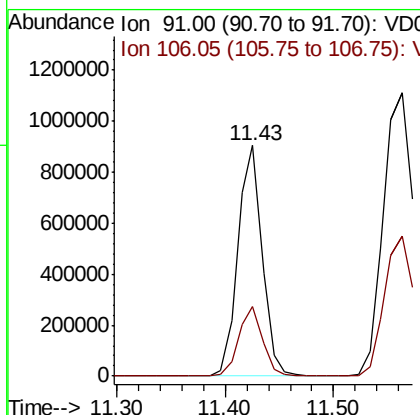
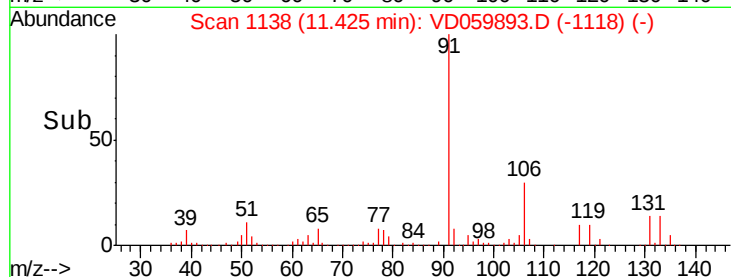
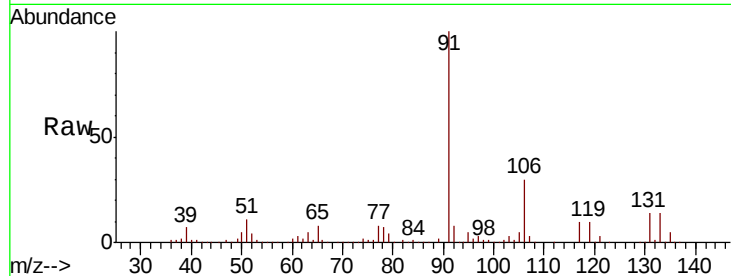
#67
Ethyl Benzene
Concen: 46.95 ug/l
RT: 11.43 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 91 Resp: 1408368
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.8

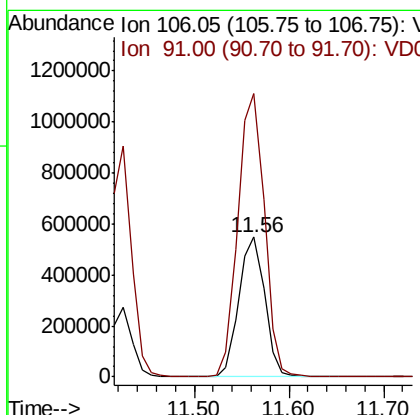
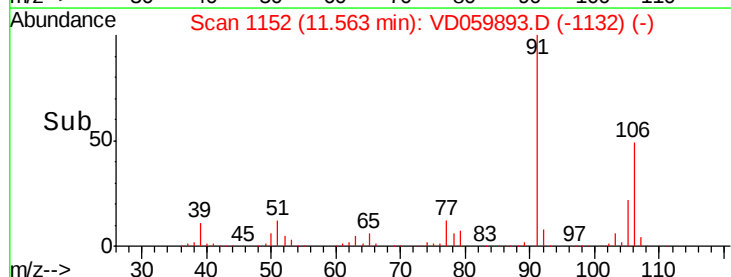
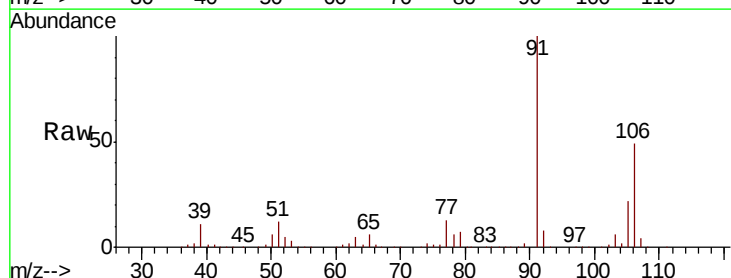
Manual Integrations
APPROVED

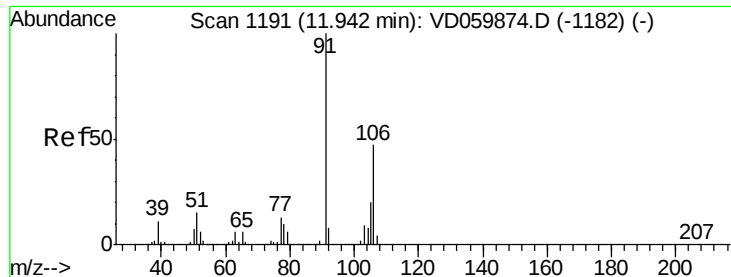
MMDadoda
8/24/2018 3:09:31 PM



#68
m/p-Xylenes
Concen: 94.75 ug/l
RT: 11.56 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion: 106 Resp: 1034735
Ion Ratio Lower Upper
106 100
91 203.1 162.0 243.0





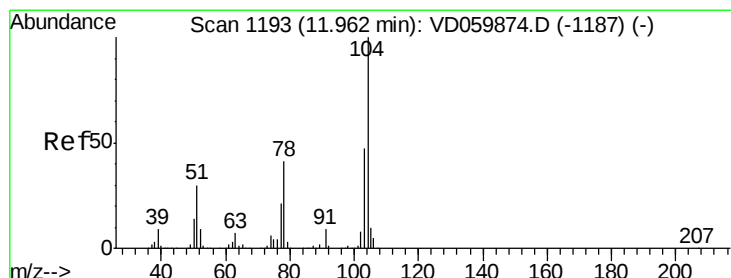
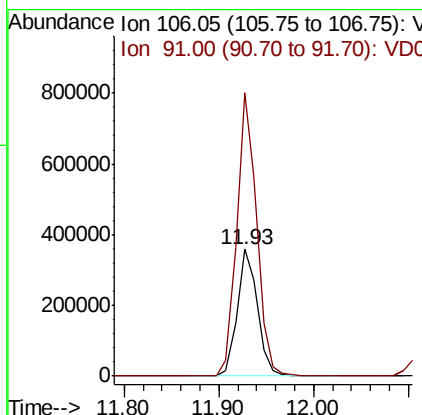
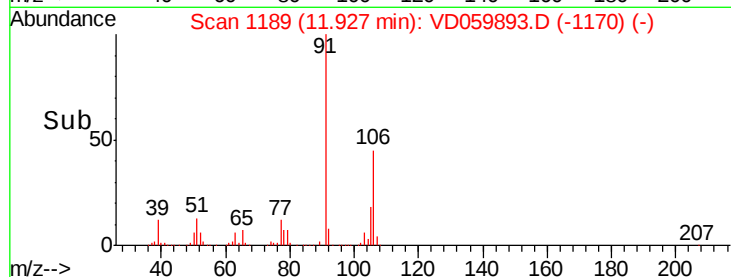
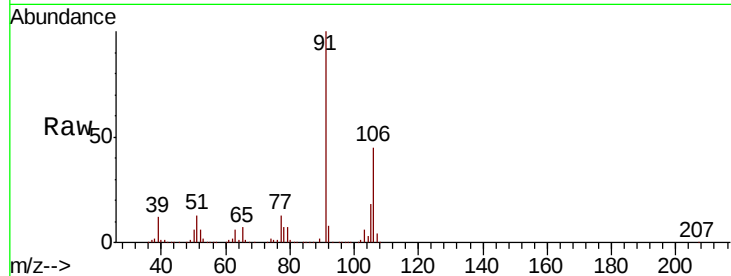
#69
o-Xylene
Concen: 49.51 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		528785		
91	223.0	107.3	322.0		

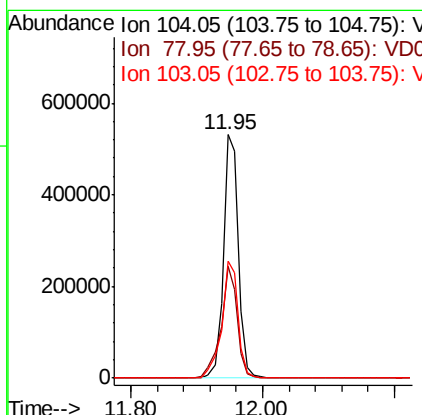
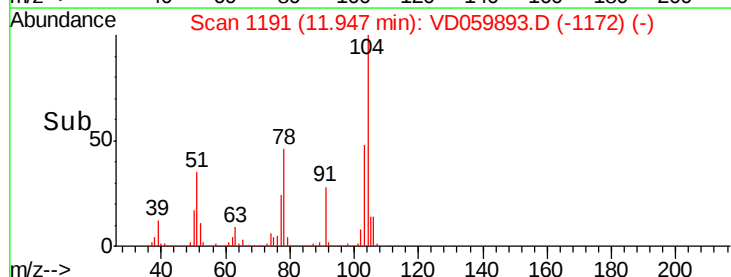
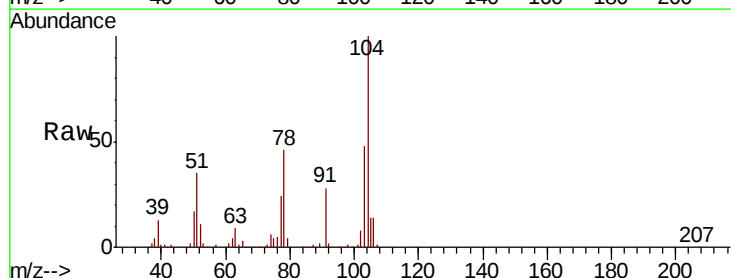
Manual Integrations
APPROVED

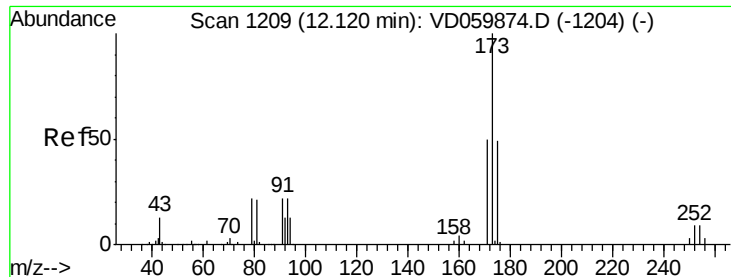
MMDadoda
8/24/2018 3:09:31 PM



#70
Styrene
Concen: 45.10 ug/l
RT: 11.95 min Scan# 1191
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		834206		
78	46.0	32.6	49.0		
103	47.9	37.7	56.5		





#71

Bromoform

Concen: 58.86 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

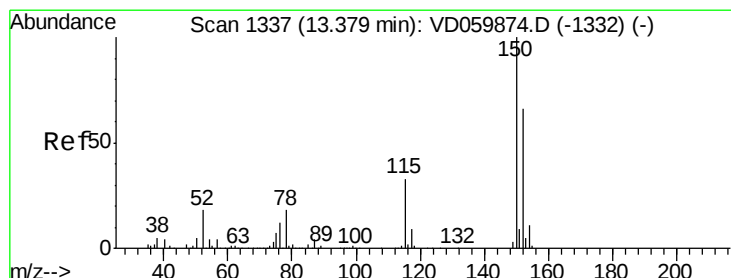
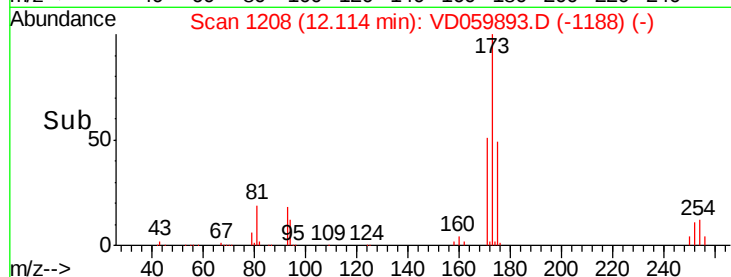
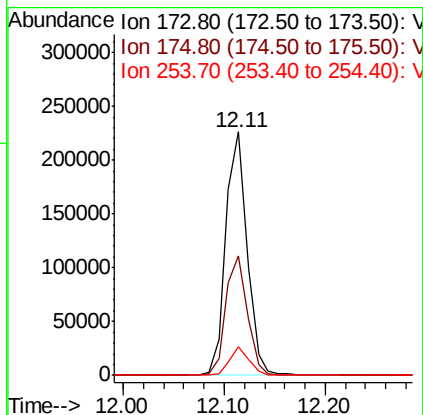
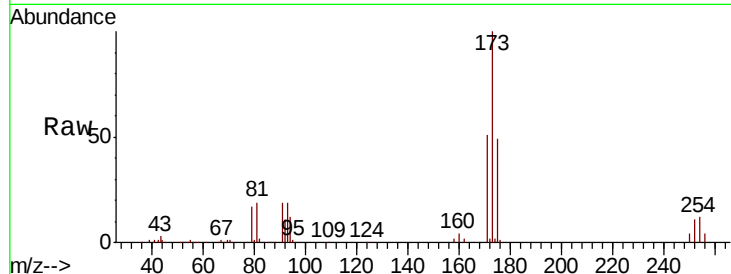
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	73.0
254	11.5	7.0	10.6

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

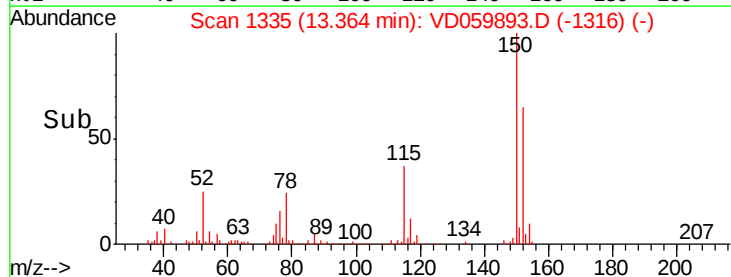
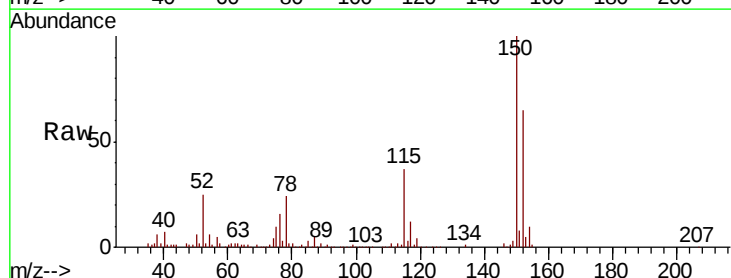
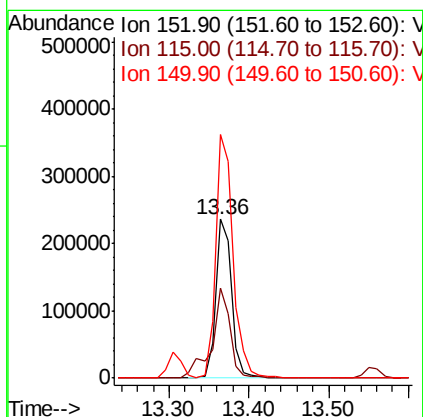
RT: 13.36 min Scan# 1335

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	25.7	77.0
150	153.3	0.0	310.2





#73

Isopropylbenzene

Concen: 51.35 ug/l

RT: 12.27 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:105 Resp: 1082660

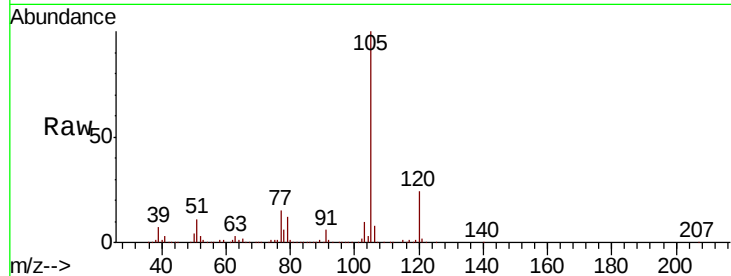
Ion Ratio Lower Upper

105 100

120 23.6 11.8 35.4

Manual Integrations
APPROVED

MMDadoda
8/24/2018 3:09:31 PM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

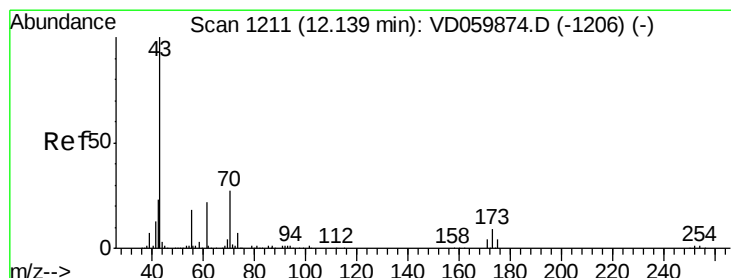
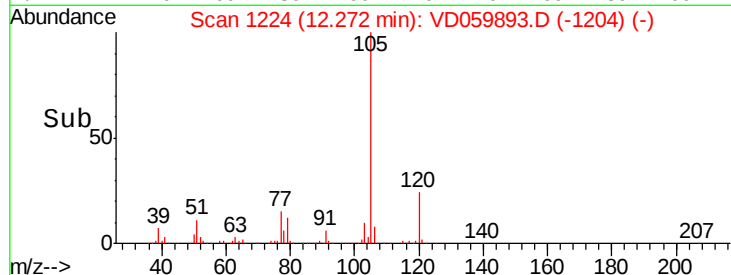
400000

200000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 4.39 ug/l

RT: 12.13 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion: 43 Resp: 40524

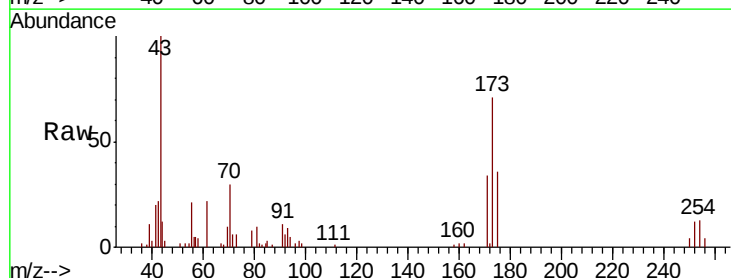
Ion Ratio Lower Upper

43 100

70 29.8 21.4 32.2

55 21.1 14.1 21.1#

61 21.8 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

40000

30000

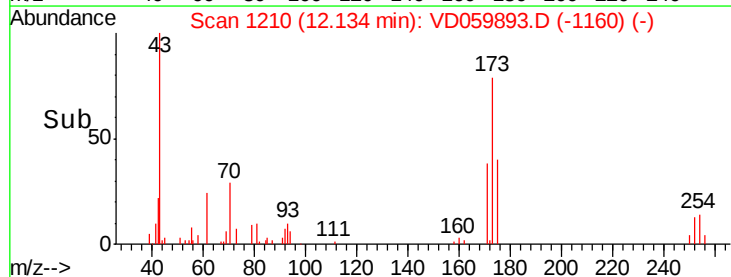
20000

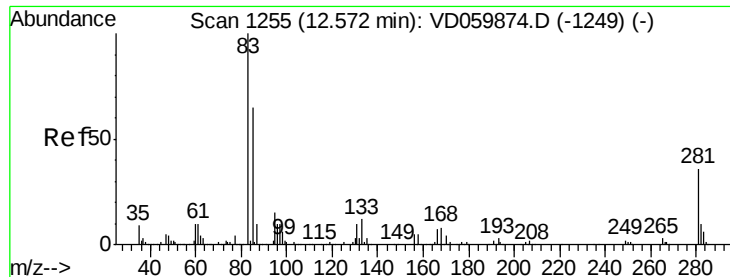
10000

0

12.10 12.15

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 88.98 ug/l

RT: 12.56 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

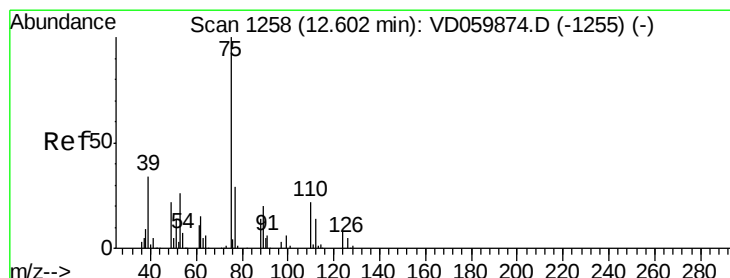
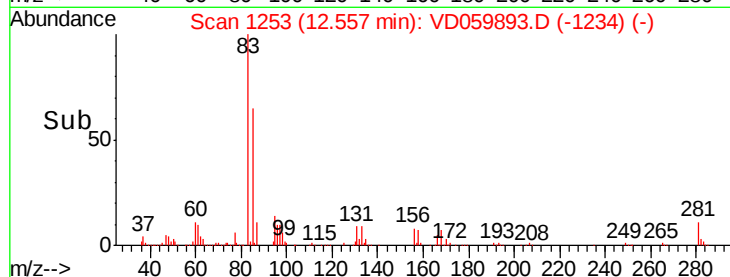
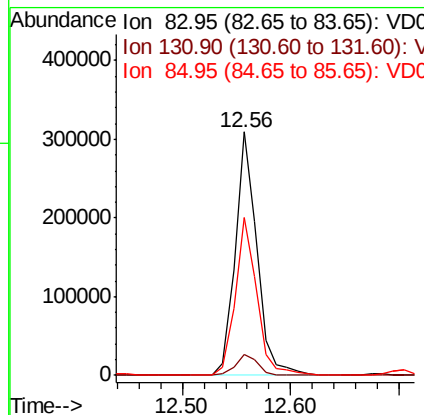
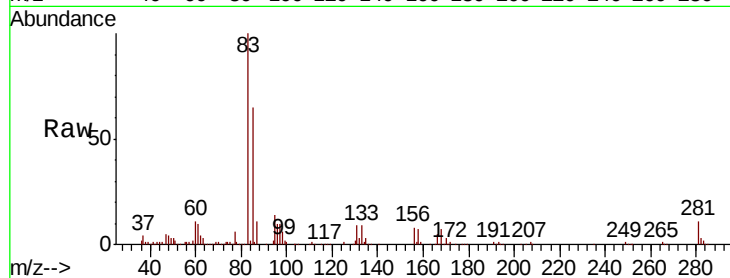
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	83	Resp:	433944
Ion Ratio	Lower	Upper	
83	100		
131	8.6	4.8	14.4
85	65.0	32.6	97.8

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#76

1,2,3-Trichloropropane

Concen: 78.79 ug/l

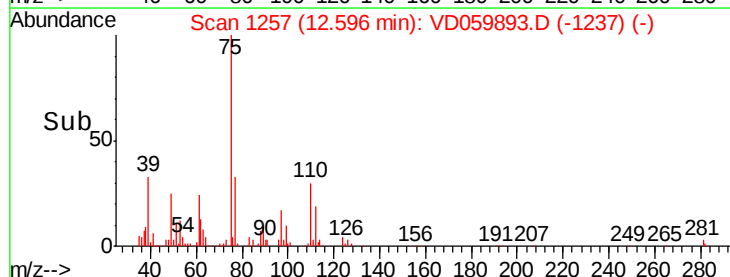
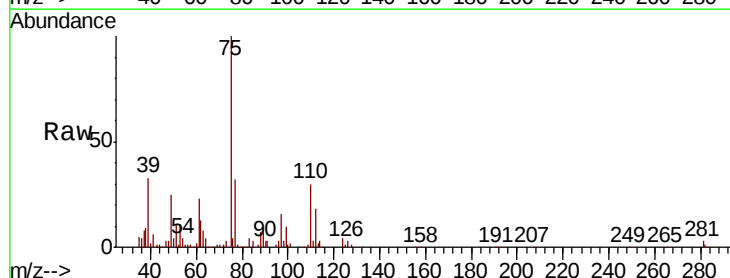
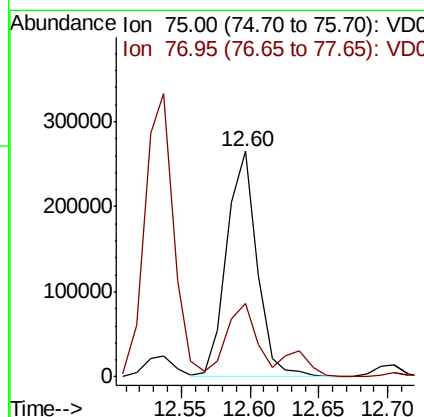
RT: 12.60 min Scan# 1257

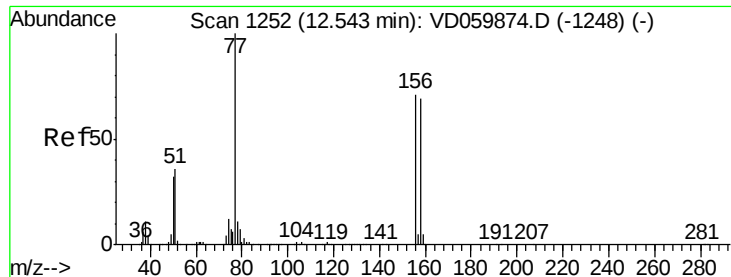
Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion:	75	Resp:	404450
Ion Ratio	Lower	Upper	
75	100		
77	32.4	16.4	49.2





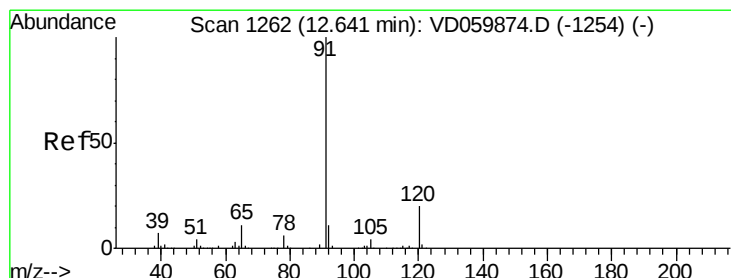
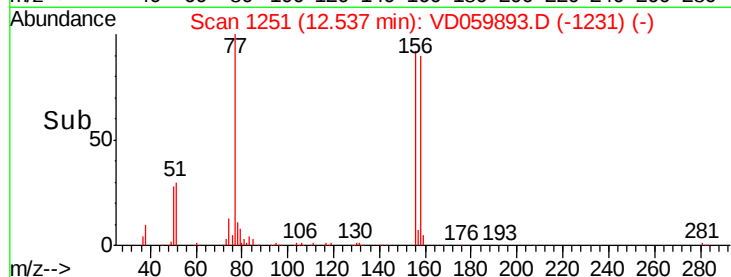
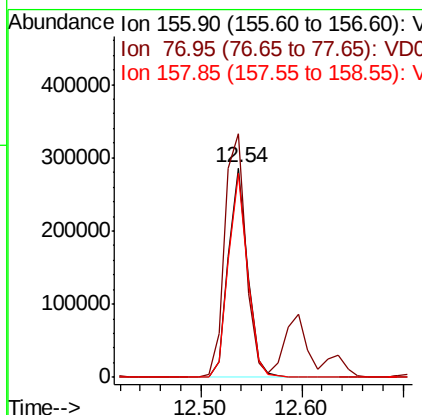
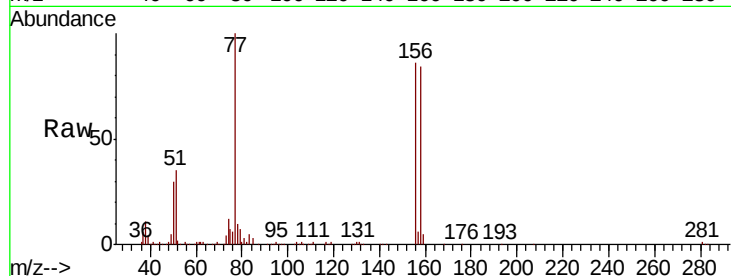
#77
Bromobenzene
Concen: 64.80 ug/l
RT: 12.54 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
156	100		
77	116.3	70.2	210.4
158	97.2	48.4	145.2

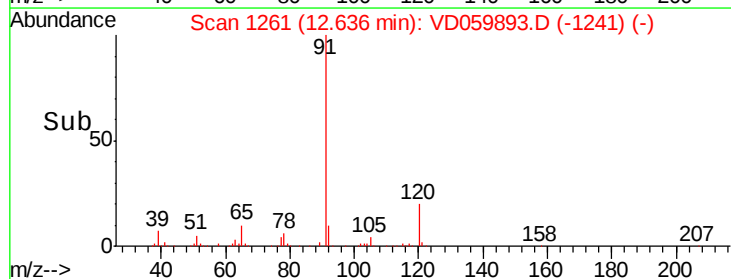
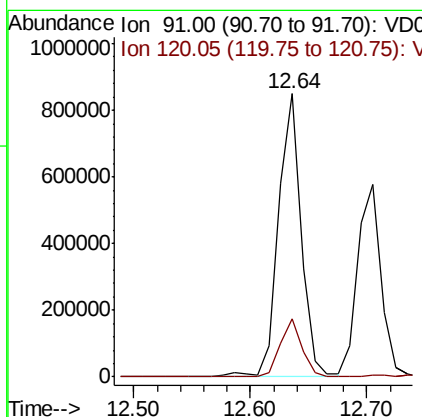
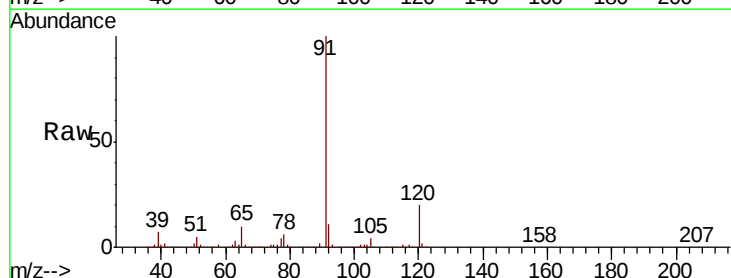
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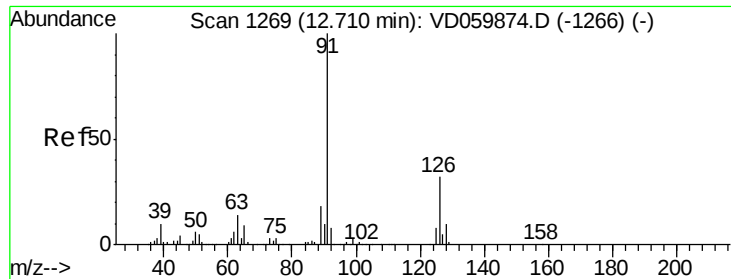
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#78
n-propylbenzene
Concen: 43.04 ug/l
RT: 12.64 min Scan# 1261
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.4	10.1	30.3





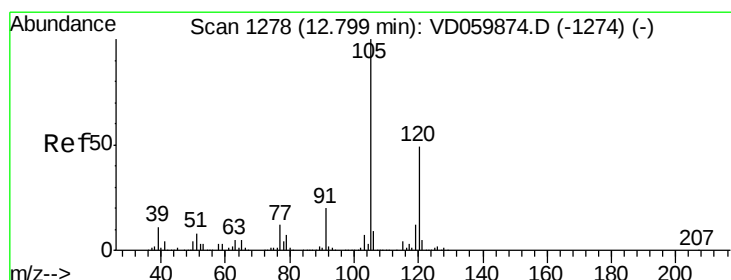
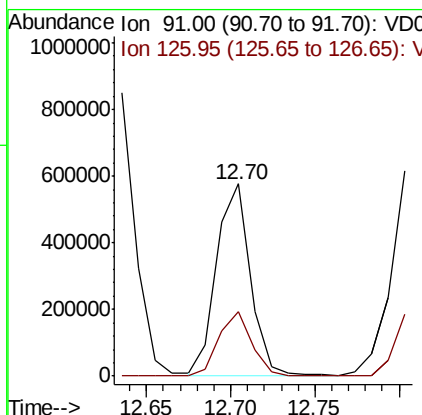
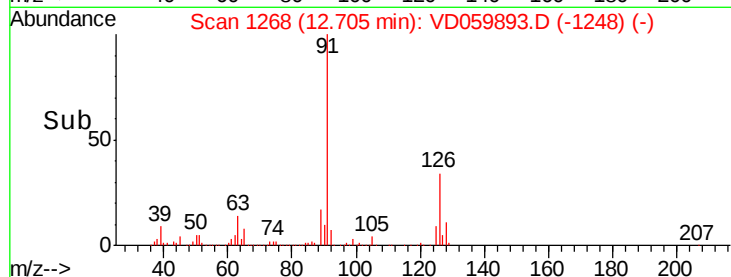
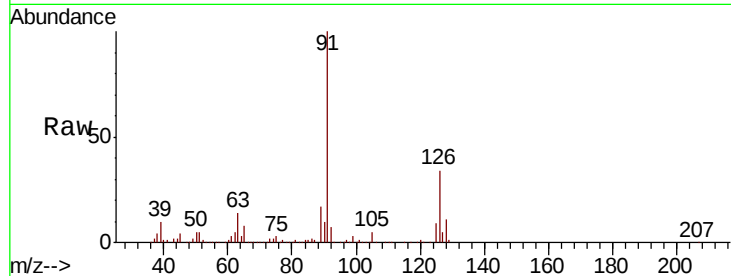
#79
2-Chlorotoluene
Concen: 53.52 ug/l
RT: 12.70 min Scan# 1268
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion: 91 Resp: 807981
Ion Ratio Lower Upper
91 100
126 33.8 16.1 48.2

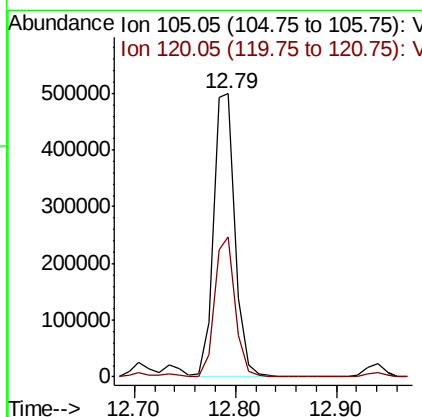
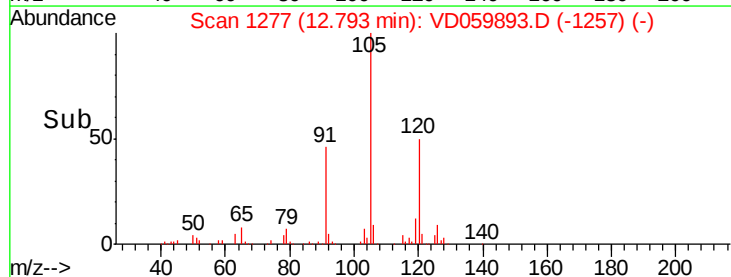
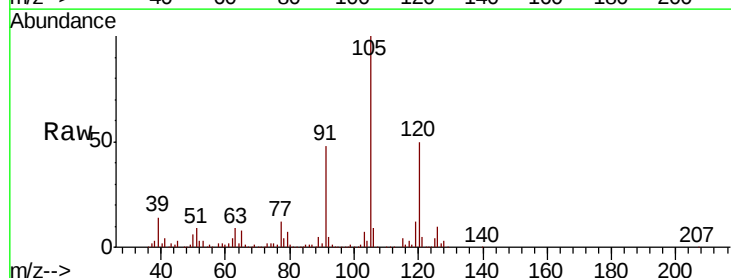
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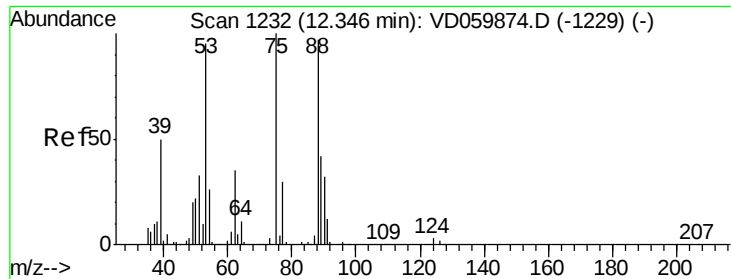
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#80
1,3,5-Trimethylbenzene
Concen: 44.33 ug/l
RT: 12.79 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion: 105 Resp: 743095
Ion Ratio Lower Upper
105 100
120 49.7 24.5 73.5





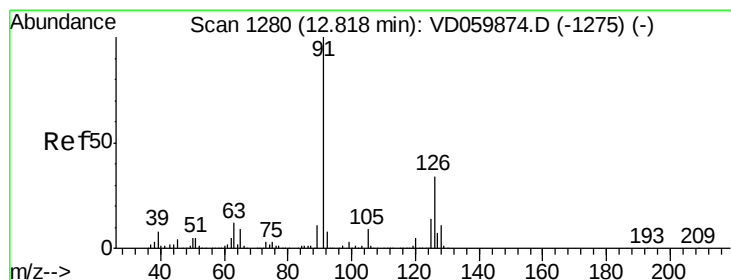
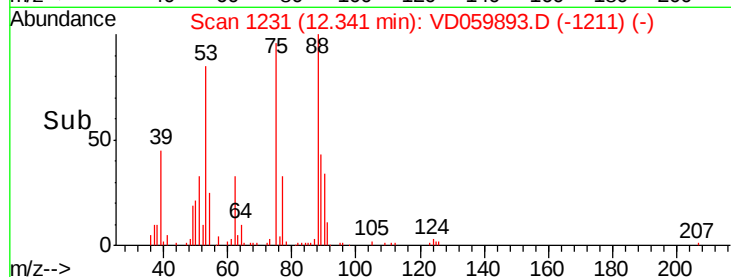
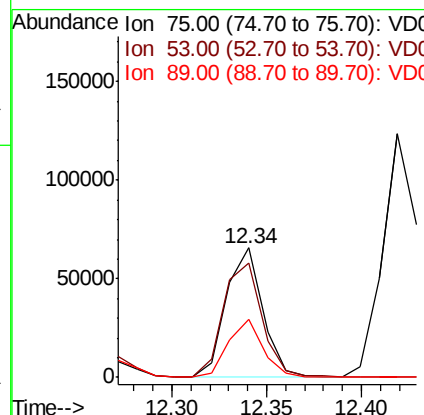
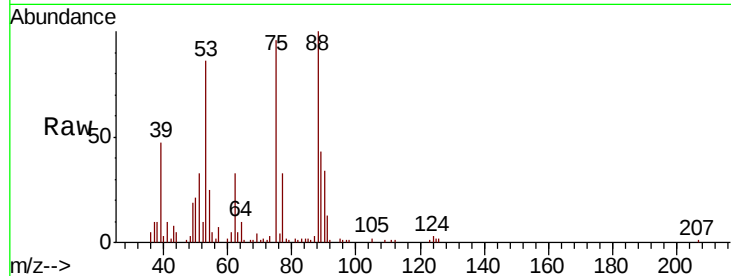
#81
trans-1,4-Dichloro-2-butene
Concen: 54.81 ug/l
RT: 12.34 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.9	75.8	113.6
89	44.7	33.6	50.4

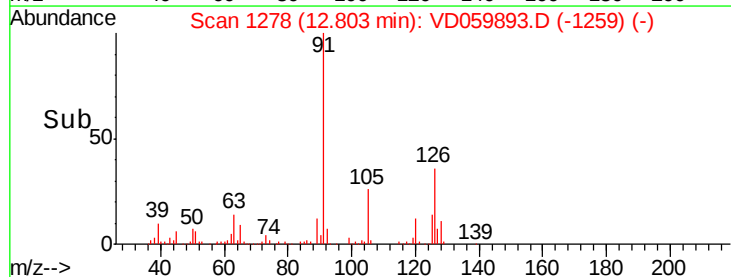
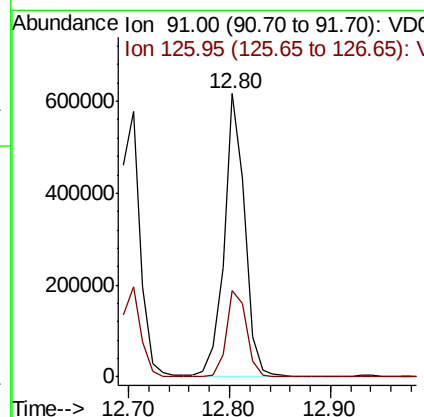
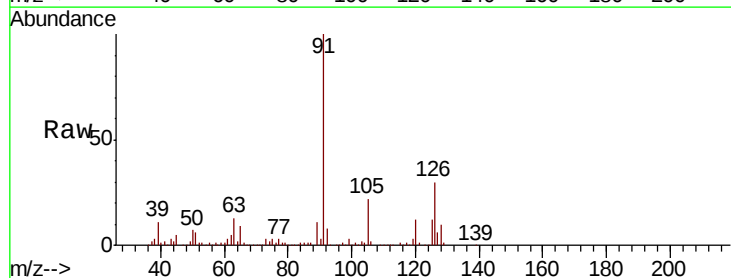
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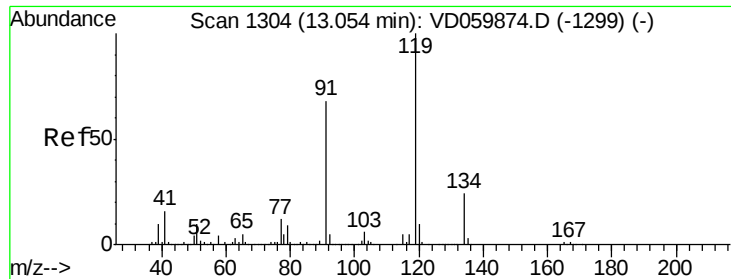
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#82
4-Chlorotoluene
Concen: 50.20 ug/l
RT: 12.80 min Scan# 1278
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.3	17.1	51.2





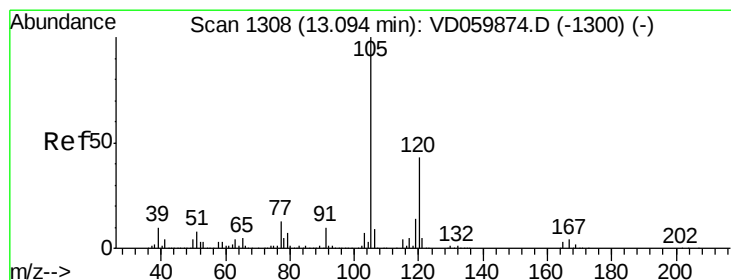
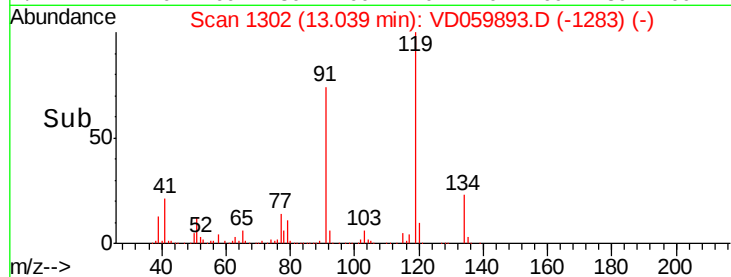
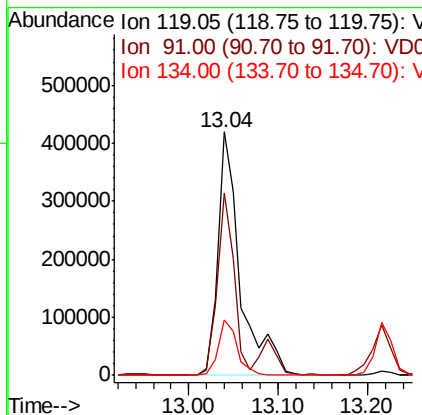
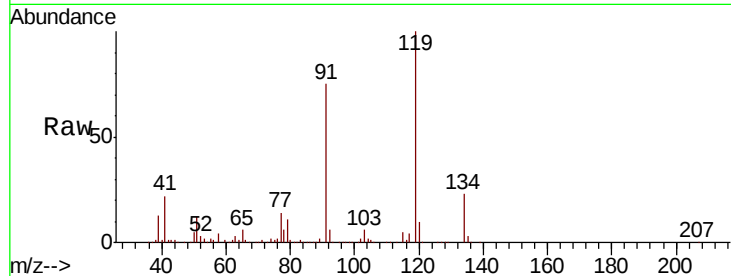
#83
 tert-Butylbenzene
 Concen: 38.60 ug/l
 RT: 13.04 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Resp	Lower	Upper
119	100	737055		
91	74.7		34.3	102.9
134	22.7		11.9	35.9

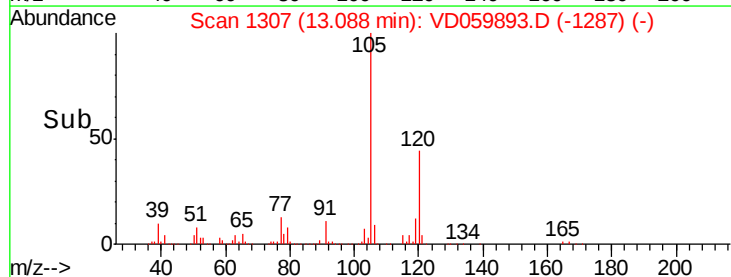
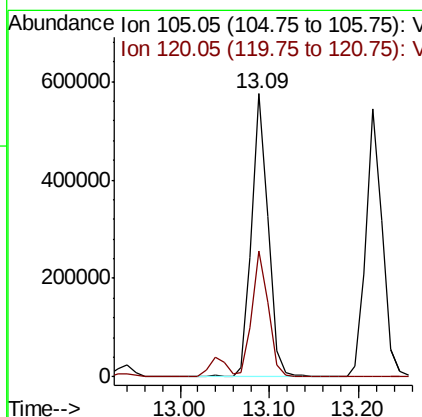
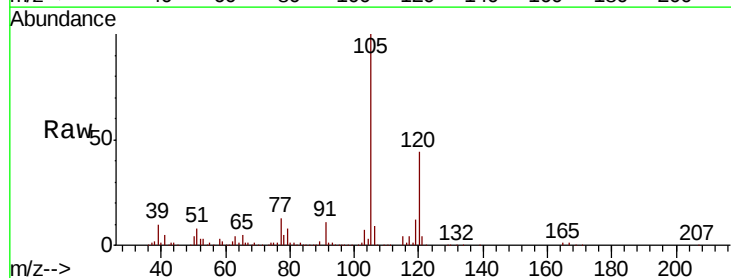
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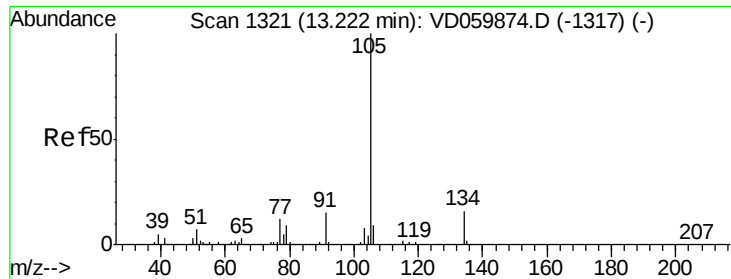
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#84
 1,2,4-Trimethylbenzene
 Concen: 41.91 ug/l
 RT: 13.09 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	732135		
120	44.4		21.8	65.3





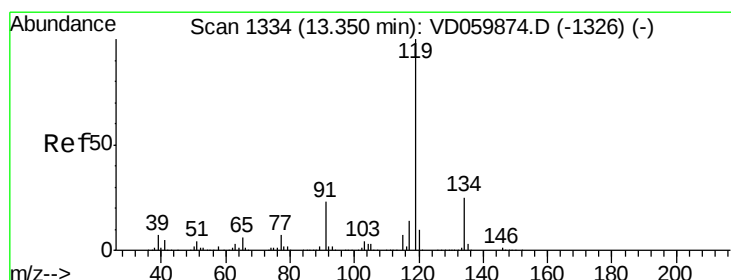
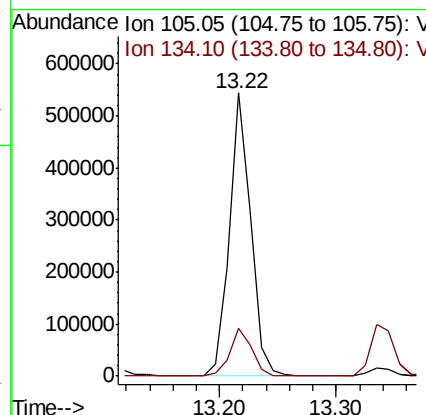
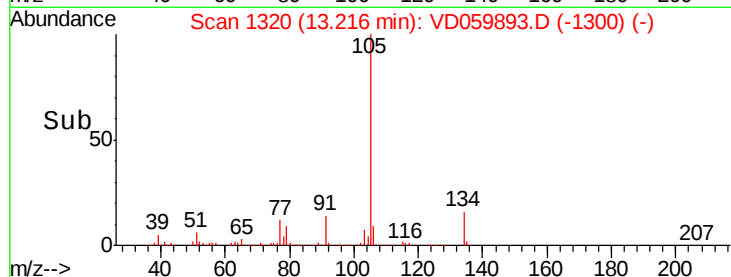
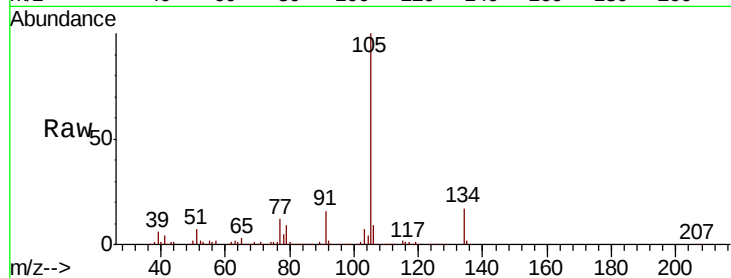
#85
 sec-Butylbenzene
 Concen: 30.57 ug/l
 RT: 13.22 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
105	100		
134	16.9	8.2	24.4

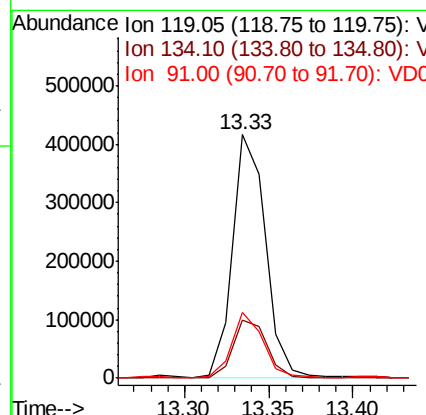
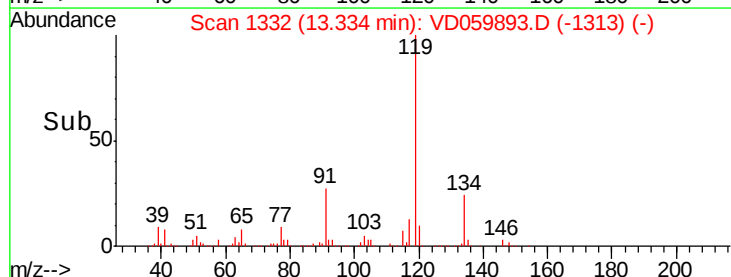
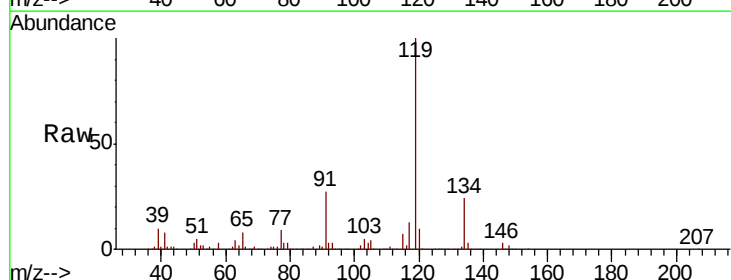
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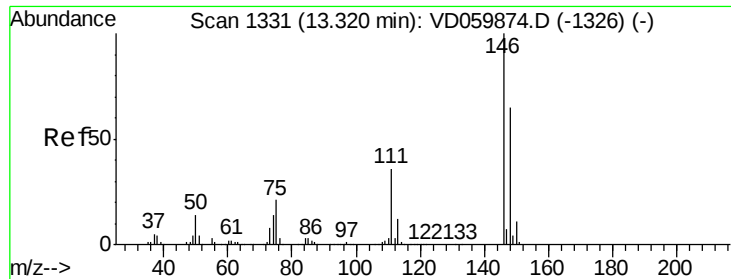
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#86
 p-Isopropyltoluene
 Concen: 30.72 ug/l
 RT: 13.33 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.6	12.7	38.1
91	26.9	11.7	35.0





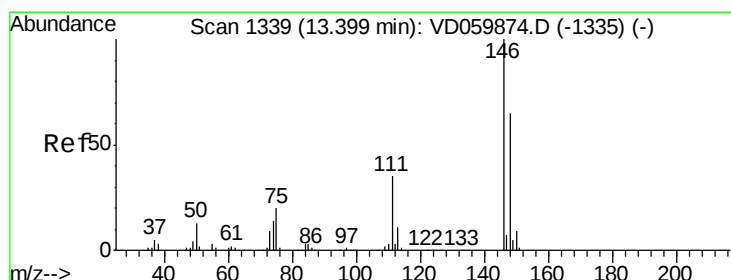
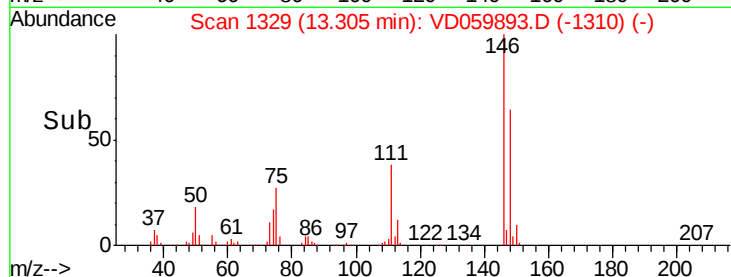
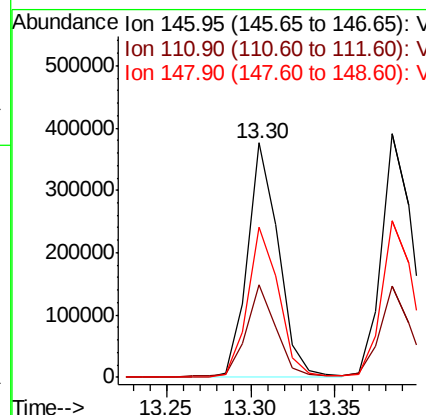
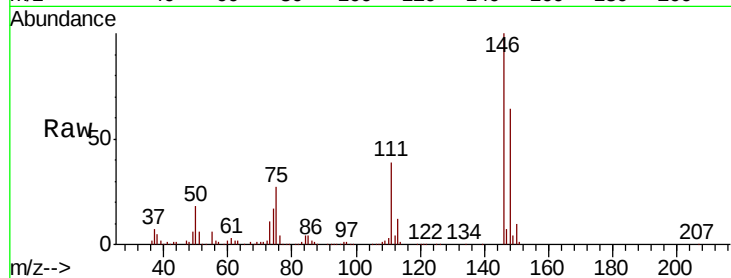
#87
 1,3-Dichlorobenzene
 Concen: 46.16 ug/l
 RT: 13.30 min Scan# 1329
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	17.9	53.7
148	64.3	32.4	97.0

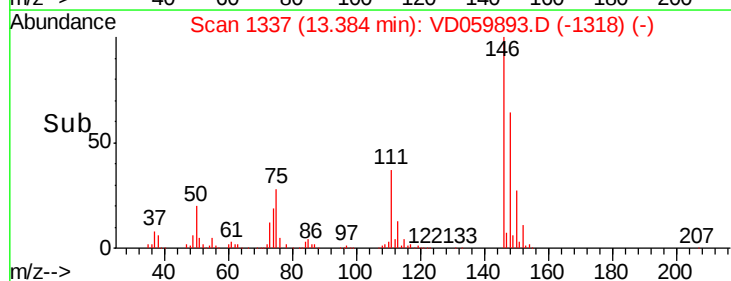
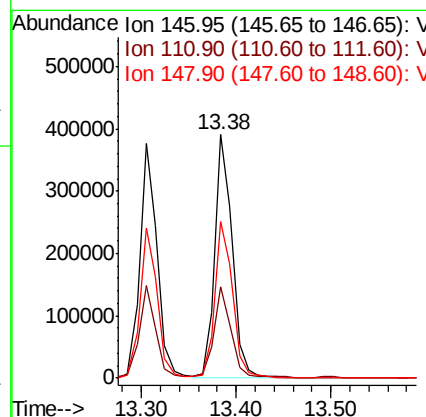
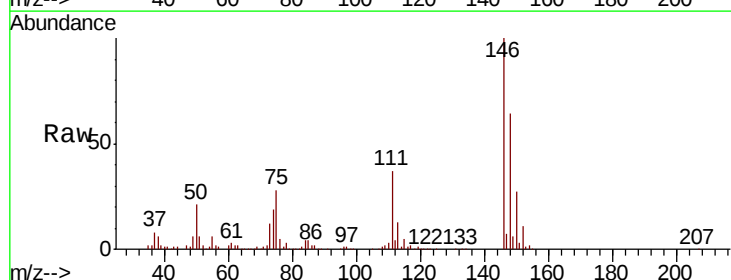
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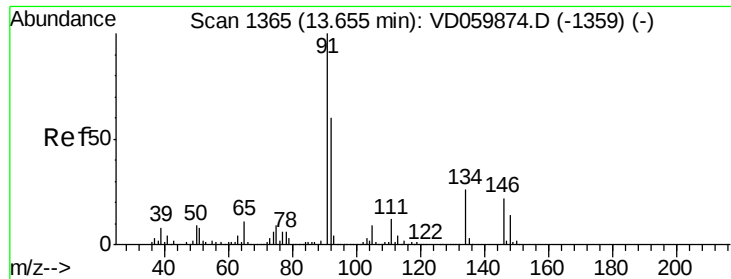
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#88
 1,4-Dichlorobenzene
 Concen: 48.52 ug/l
 RT: 13.38 min Scan# 1337
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	17.5	52.6
148	64.2	32.5	97.5





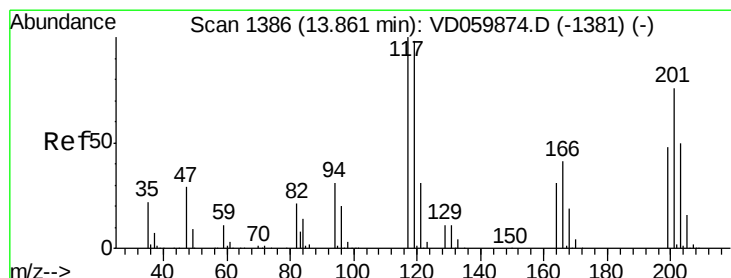
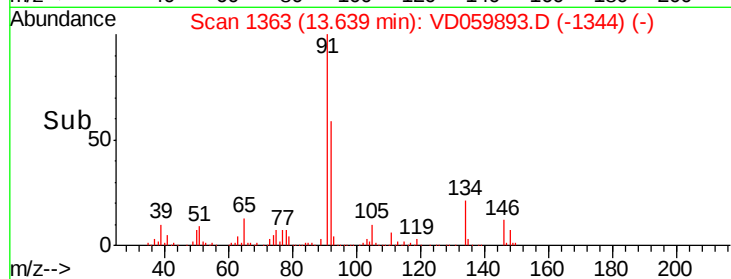
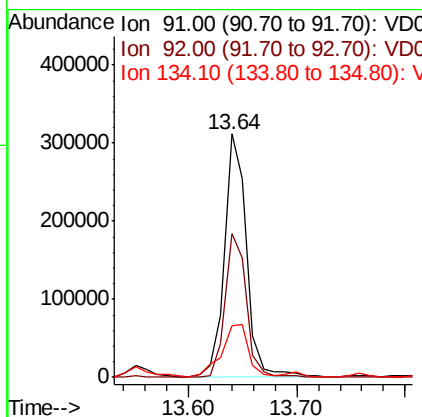
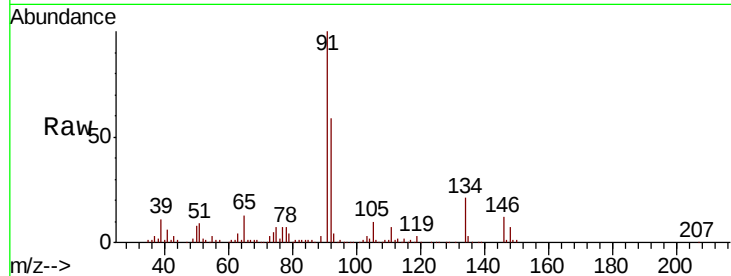
#89
n-Butylbenzene
Concen: 22.54 ug/l
RT: 13.64 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.2	30.0	90.1
134	21.0	12.8	38.4

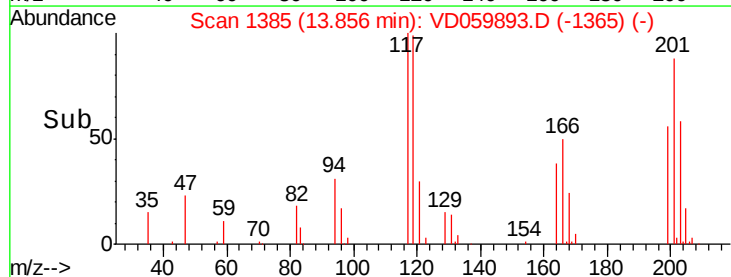
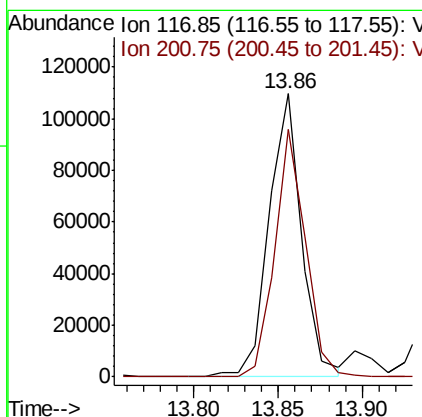
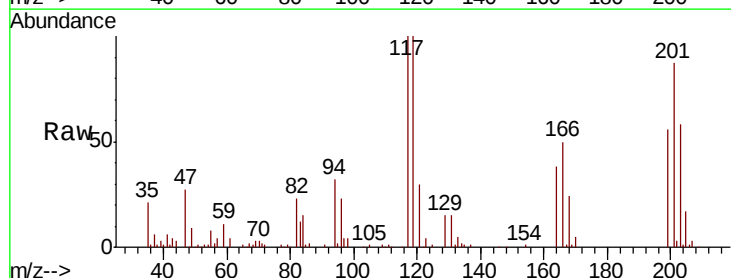
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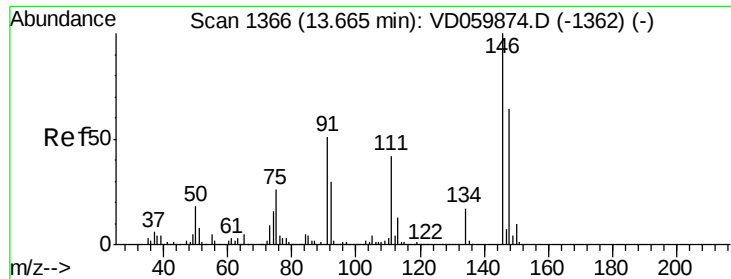
MMDadoda
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#90
Hexachloroethane
Concen: 29.90 ug/l
RT: 13.86 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.4	38.1	114.5





#91

1,2-Dichlorobenzene

Concen: 53.60 ug/l

RT: 13.66 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Instrument :

MSVOA_D

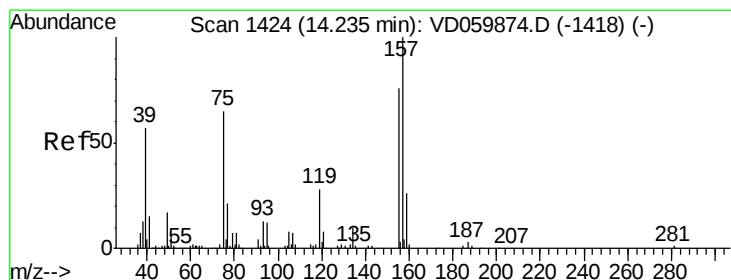
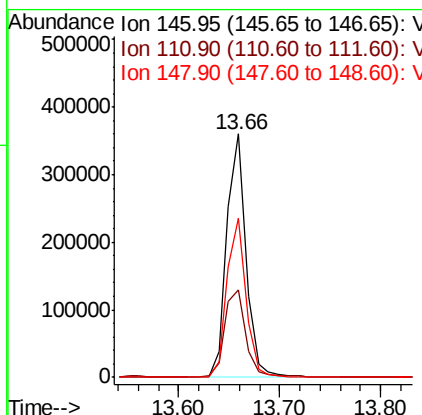
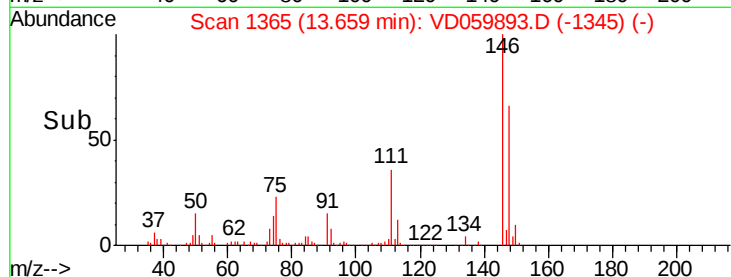
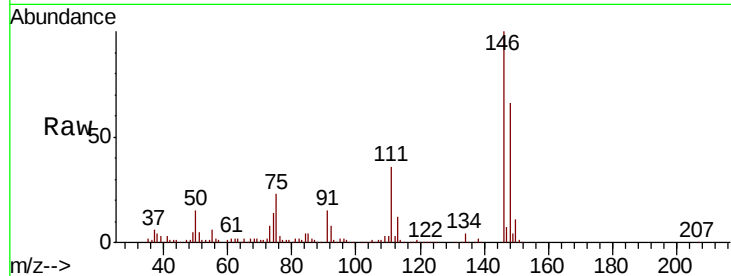
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	146	Resp:	475642
Ion Ratio	Lower	Upper	
146	100		
111	36.2	21.1	63.1
148	65.6	32.2	96.6

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8/24/2018 3:09:31 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 80.26 ug/l

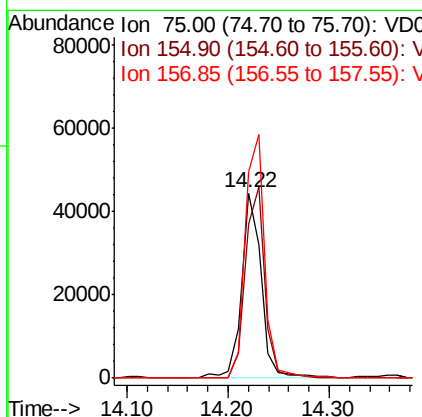
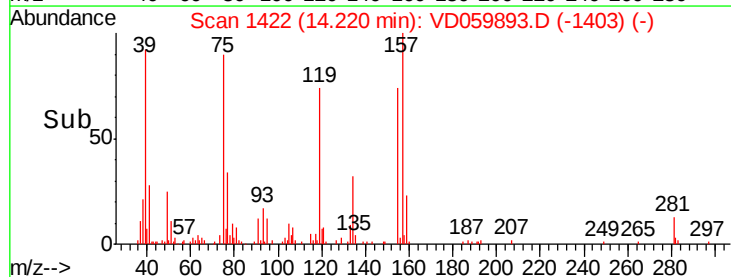
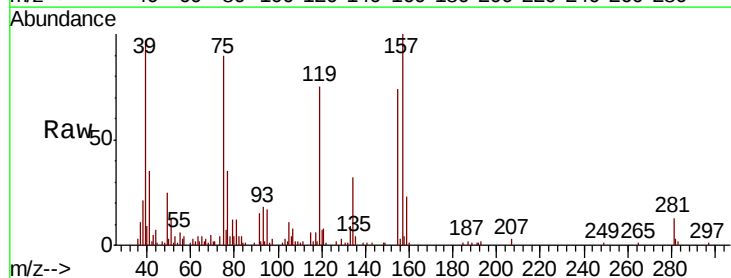
RT: 14.22 min Scan# 1422

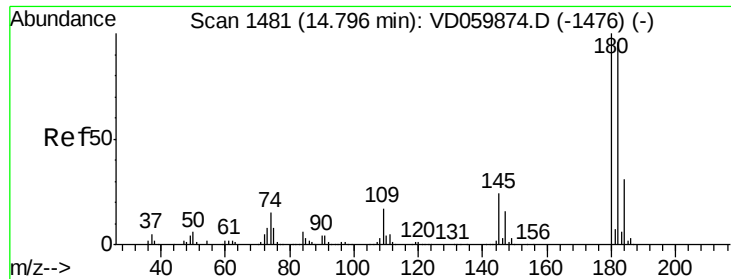
Delta R.T. -0.02 min

Lab File: VD059893.D

Acq: 23 Aug 2018 17:33

Tgt Ion:	75	Resp:	60178
Ion Ratio	Lower	Upper	
75	100		
155	83.0	58.2	174.6
157	111.5	76.8	230.4





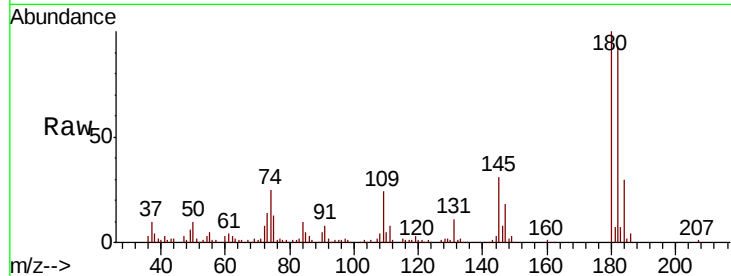
#93
 1,2,4-Trichlorobenzene
 Concen: 23.37 ug/l
 RT: 14.78 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

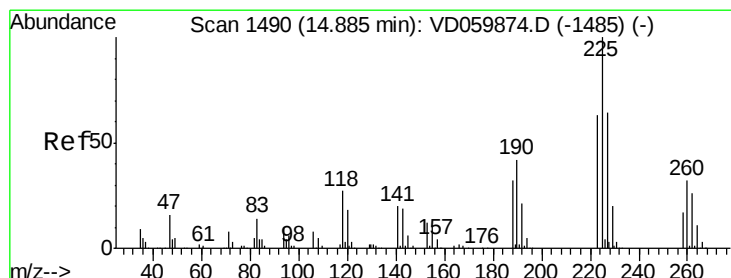
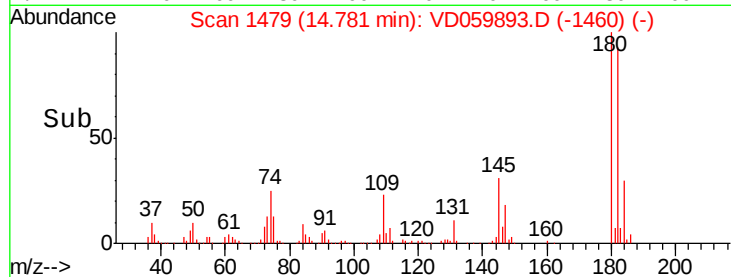
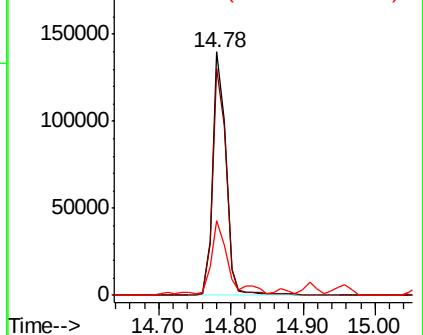
Tot Ion	Ratio	Resp	Lower	Upper
180	100	177540		
182	93.0	47.9	143.7	
145	30.9	12.2	36.4	

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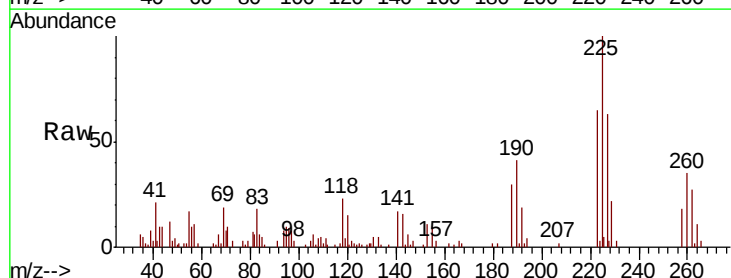


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

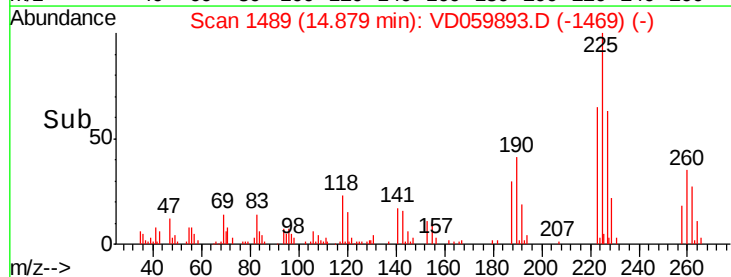
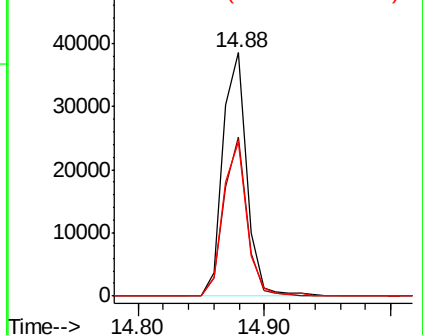


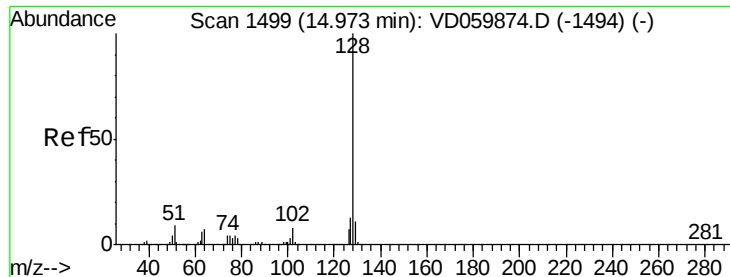
#94
 Hexachlorobutadiene
 Concen: 10.13 ug/l
 RT: 14.88 min Scan# 1489
 Delta R.T. -0.01 min
 Lab File: VD059893.D
 Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50445		
223	65.3	31.6	94.8	
227	63.4	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





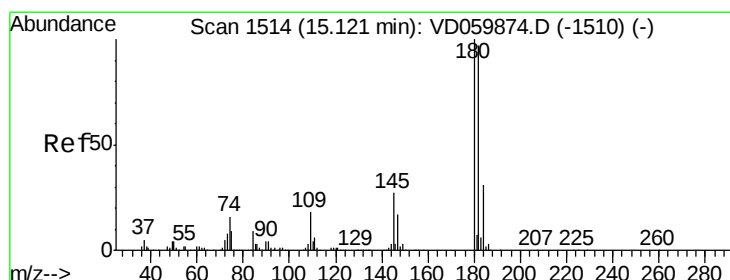
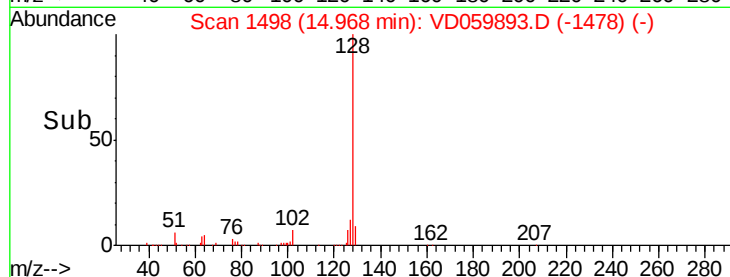
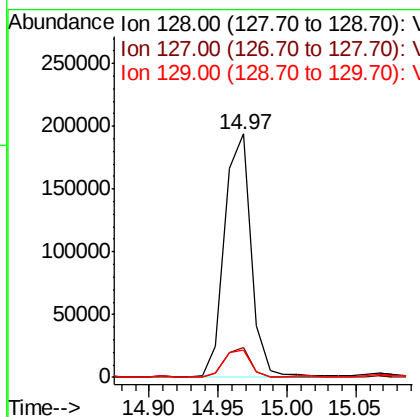
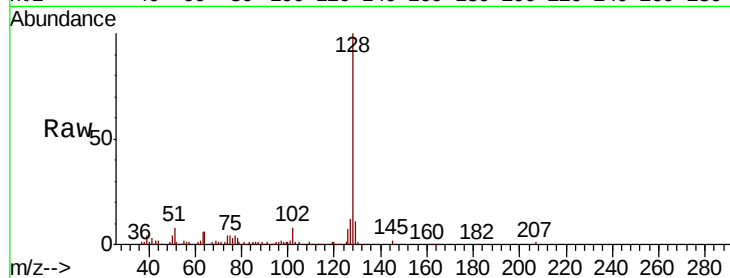
#95
Naphthalene
Concen: 22.51 ug/l
RT: 14.97 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Resp	Lower	Upper
128	100	261318		
127	12.4	10.0	15.0	
129	11.1	8.6	13.0	

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#96
1,2,3-Trichlorobenzene
Concen: 24.70 ug/l
RT: 15.11 min Scan# 1512
Delta R.T. -0.02 min
Lab File: VD059893.D
Acq: 23 Aug 2018 17:33

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	160495		
182	93.8	48.6	145.8	
145	37.0	13.6	40.8	

