

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019223.D
 Acq On : 03 Nov 2020 02:04
 Operator : SY/MD
 Sample : L4485-08
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 10:45:02 AM

Quant Time: Nov 03 06:41:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 05:28:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	232975	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	221785	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	111944	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	87358	48.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.18%
7) Chloroethane-d5	1.58	69	75232	53.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.80%
11) 1,1-Dichloroethene-d2	2.12	63	136357	40.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.92%
21) 2-Butanone-d5	3.90	46	110773	111.73	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.73%
24) Chloroform-d	4.38	84	166932	49.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.22%
26) 1,2-Dichloroethane-d4	5.05	65	121973	52.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.04%
32) Benzene-d6	5.07	84	314934	51.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.86%
36) 1,2-Dichloropropane-d6	6.09	67	97380	53.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.52%
41) Toluene-d8	7.34	98	284781	49.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.84%
43) trans-1,3-Dichloropropene-	7.64	79	52480	50.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.38%
47) 2-Hexanone-d5	8.11	63	73200	103.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.12%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120941	49.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.28%
66) 1,2-Dichlorobenzene-d4	11.65	152	119957	53.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.12%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3992	2.797 ug/L	96
3) Chloromethane	1.25	50	4295	2.890 ug/L	98
5) Vinyl chloride	1.32	62	4392	2.839 ug/L #	61
6) Bromomethane	1.53	94	3093	2.975 ug/L	96
8) Chloroethane	1.60	64	3173	3.136 ug/L	93
9) Trichlorofluoromethane	1.77	101	6560	2.561 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4365	3.587 ug/L #	78
12) 1,1-Dichloroethene	2.13	96	4473	3.556 ug/L #	1
13) Acetone	2.19	43	3908	5.184 ug/L	66
14) Carbon disulfide	2.32	76	9513	2.634 ug/L	99
15) Methyl Acetate	2.46	43	3951	2.705 ug/L	92
16) Methylene chloride	2.53	84	4176	2.793 ug/L	87
17) trans-1,2-Dichloroethene	2.78	96	3644	2.671 ug/L	97
18) Methyl tert-butyl Ether	2.78	73	12696	2.647 ug/L	99
19) 1,1-Dichloroethane	3.22	63	6961	2.604 ug/L	95
20) cis-1,2-Dichloroethene	3.95	96	4019	2.665 ug/L	93
22) 2-Butanone	4.03	43	4274m	4.466 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	2150	2.590	ug/L	97
25) Chloroform	4.41	83	8490	2.962	ug/L	92
27) 1,2-Dichloroethane	5.16	62	6872	2.821	ug/L	98
29) Cyclohexane	4.71	56	4233	2.230	ug/L	93
30) 1,1,1-Trichloroethane	4.64	97	6703	2.606	ug/L	96
31) Carbon tetrachloride	4.86	117	5673	2.554	ug/L	89
33) Benzene	5.13	78	15189	2.756	ug/L	100
34) Trichloroethene	5.94	95	4003	2.672	ug/L	95
35) Methylcyclohexane	6.15	83	4251	2.345	ug/L	96
37) 1,2-Dichloropropane	6.20	63	3851	2.618	ug/L #	89
38) Bromodichloromethane	6.54	83	5201	2.457	ug/L	85
39) cis-1,3-Dichloropropene	7.05	75	5094	2.164	ug/L	91
40) 4-Methyl-2-pentanone	7.25	43	9623	4.870	ug/L	96
42) Toluene	7.41	91	17489	2.936	ug/L	96
44) trans-1,3-Dichloropropene	7.68	75	5235	2.170	ug/L	95
45) 1,1,2-Trichloroethane	7.86	97	4055	2.789	ug/L	94
46) Tetrachloroethene	8.00	164	3130	2.561	ug/L	94
48) 2-Hexanone	8.16	43	8049	5.388	ug/L #	92
49) Dibromochloromethane	8.27	129	4295	2.477	ug/L	96
50) 1,2-Dibromoethane	8.38	107	3949	2.620	ug/L #	92
51) Chlorobenzene	8.90	112	10672	2.678	ug/L	95
52) Ethylbenzene	9.04	91	15784	2.401	ug/L	98
53) m,p-Xylene	9.16	106	5943	2.415	ug/L	89
54) o-Xylene	9.57	106	5706	2.352	ug/L	90
55) Styrene	9.59	104	8979	2.080	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.26	83	5820	2.646	ug/L #	98
59) Bromoform	9.75	173	3264	2.627	ug/L #	97
60) Isopropylbenzene	9.95	105	14627	2.493	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	5083	2.923	ug/L	94
62) 1,3,5-Trimethylbenzene	10.56	105	10929	2.237	ug/L	100
63) 1,2,4-Trimethylbenzene	10.94	105	10345	2.164	ug/L	98
64) 1,3-Dichlorobenzene	11.21	146	8146	2.654	ug/L	96
65) 1,4-Dichlorobenzene	11.29	146	8966	2.824	ug/L	95
67) 1,2-Dichlorobenzene	11.67	146	8830	2.812	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	1280	2.523	ug/L #	91
69) 1,3,5-Trichlorobenzene	12.67	180	5581m	2.534	ug/L	
70) 1,2,4-trichlorobenzene	13.29	180	4546	2.193	ug/L	98
71) Naphthalene	13.53	128	10268	1.757	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	4499	2.190	ug/L	98

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

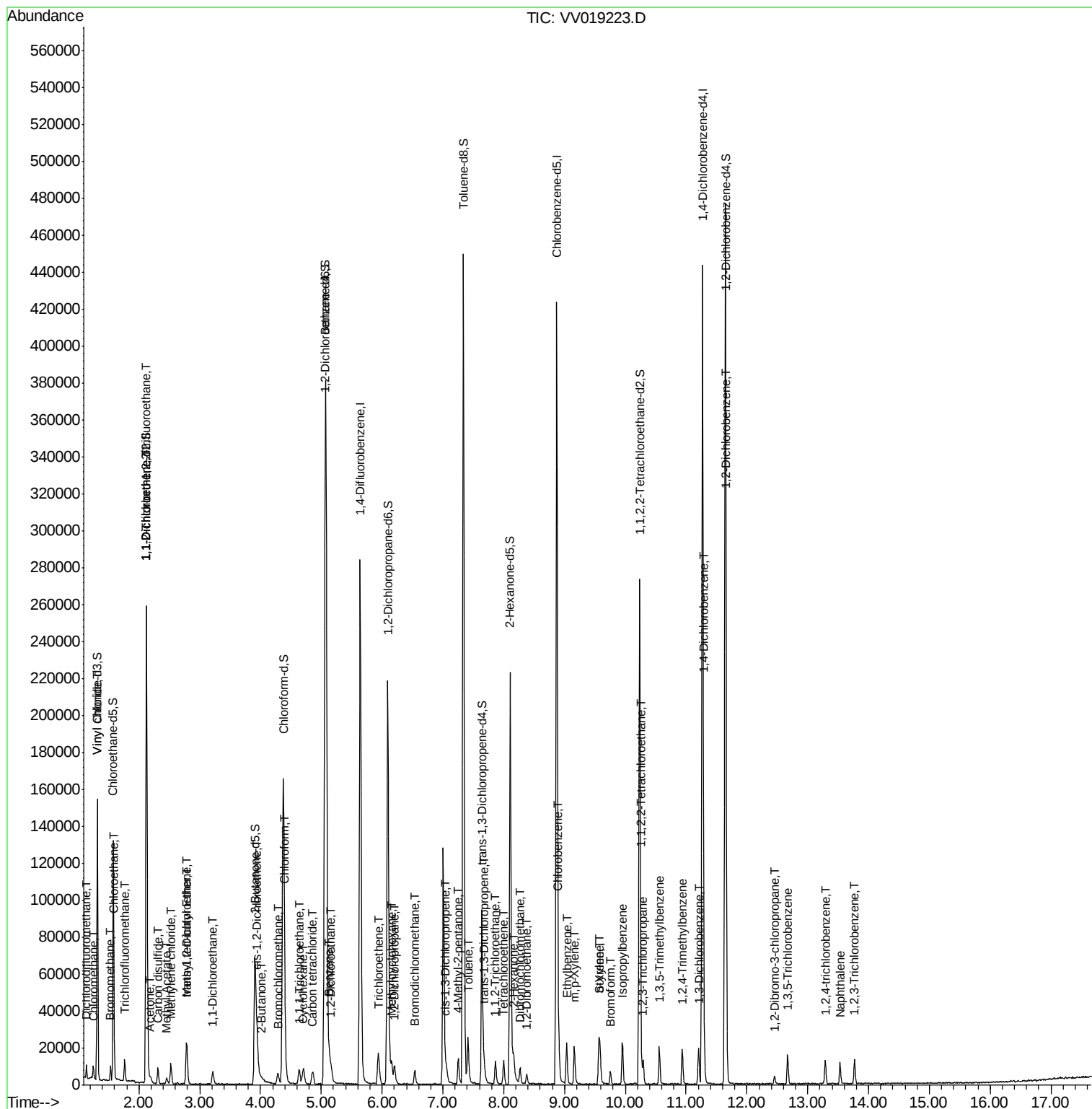
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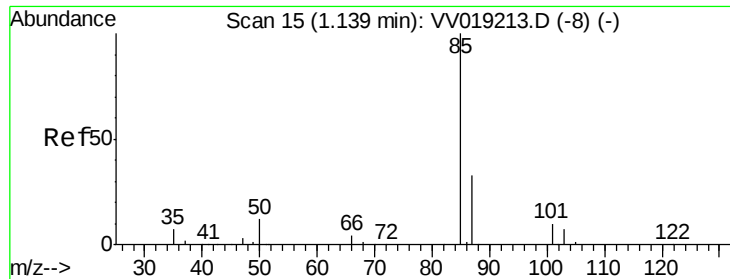
Instrument :
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#2

Dichlorodifluoromethane

Concen: 2.797 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion: 85 Resp: 3992

Ion Ratio Lower Upper

85 100

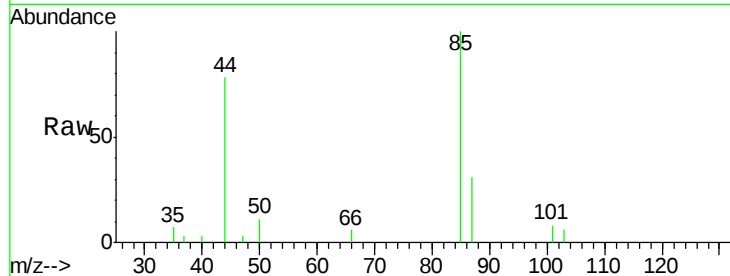
87 30.4 25.9 38.9

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV019213.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019213.D (-8) (-)

1.14

4000

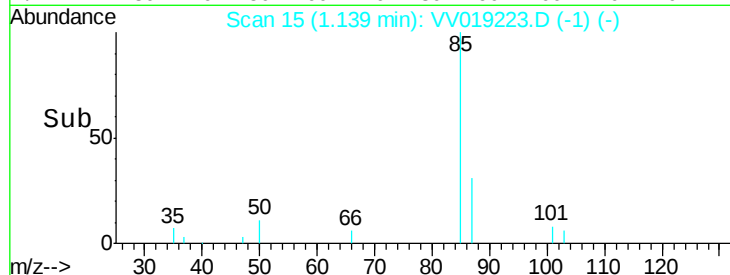
3000

2000

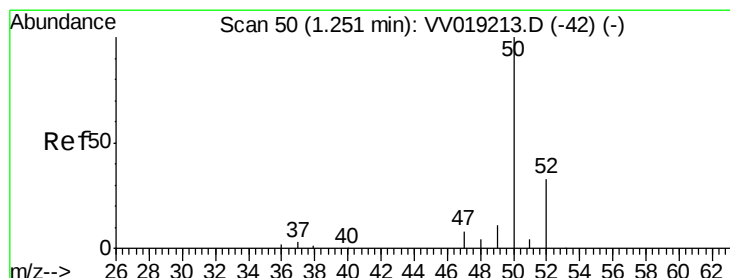
1000

0

Time-->



Time-->



#3

Chloromethane

Concen: 2.890 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019223.D

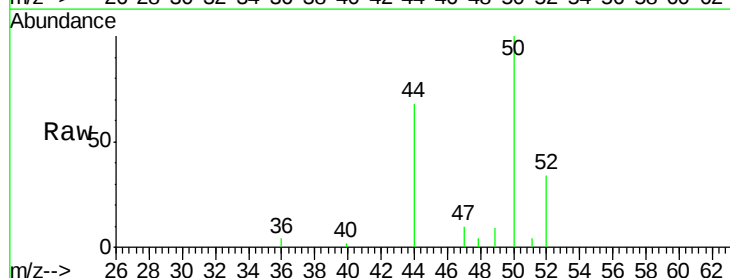
Acq: 03 Nov 2020 02:04

Tgt Ion: 50 Resp: 4295

Ion Ratio Lower Upper

50 100

52 33.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019213.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019213.D (-42) (-)

1.25

4000

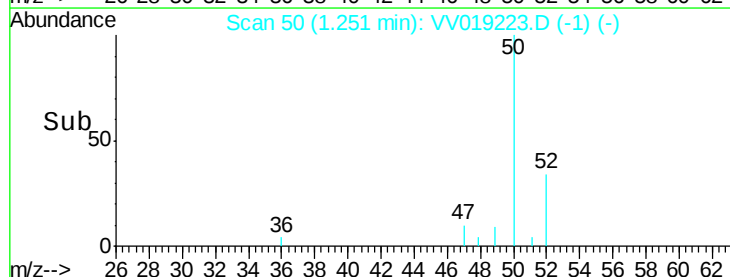
3000

2000

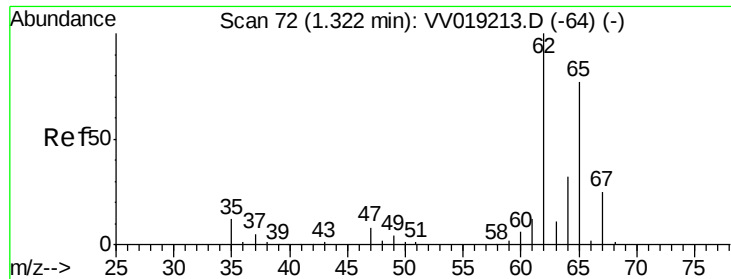
1000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 2.839 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion: 62 Resp: 4392

Ion Ratio Lower Upper

62 100

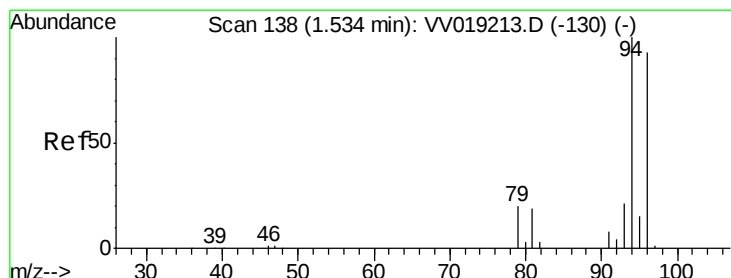
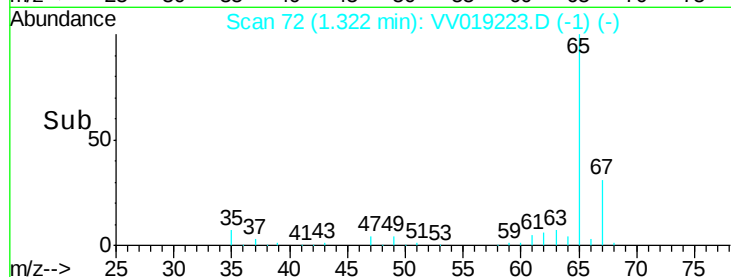
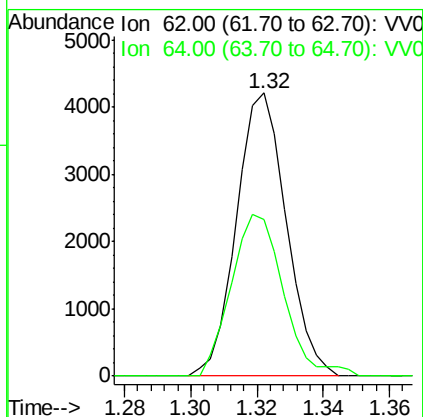
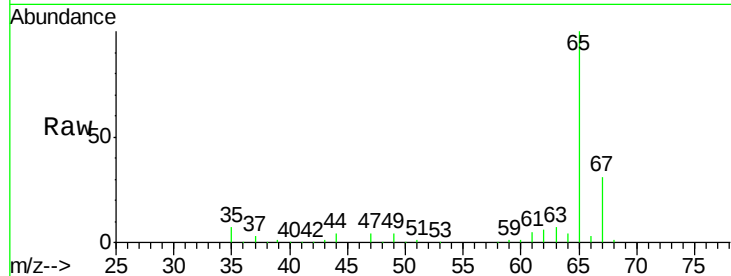
64 55.5 23.3 43.3#

Manual Integrations

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11/4/2020 10:45:02 AM



#6

Bromomethane

Concen: 2.975 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019223.D

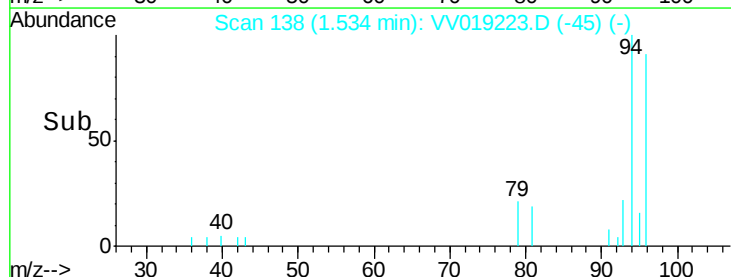
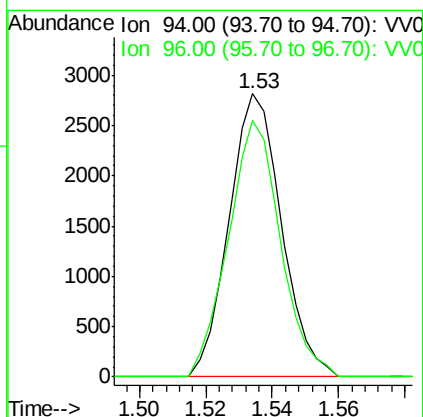
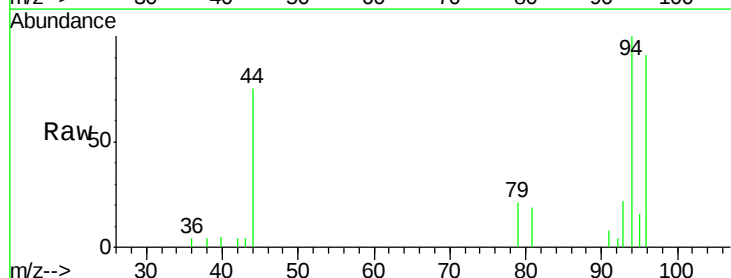
Acq: 03 Nov 2020 02:04

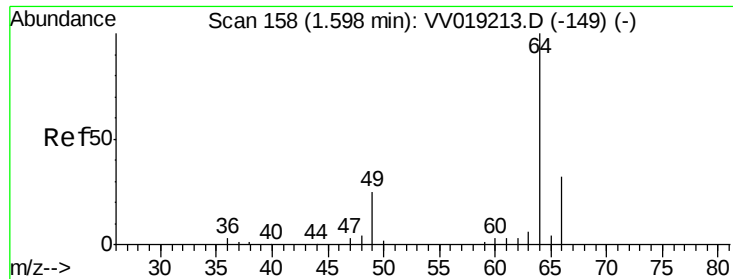
Tgt Ion: 94 Resp: 3093

Ion Ratio Lower Upper

94 100

96 90.8 66.4 123.2





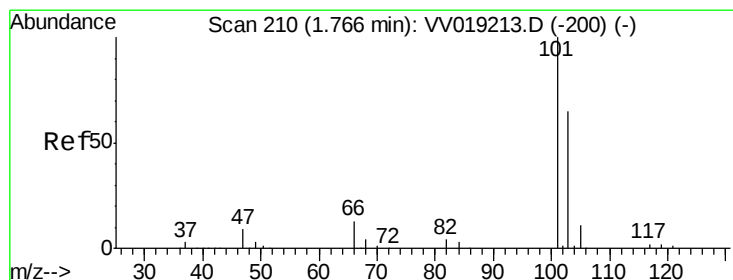
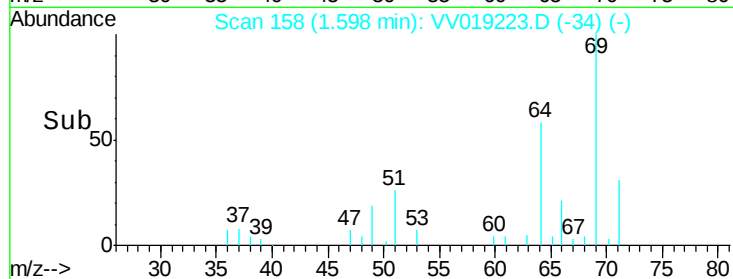
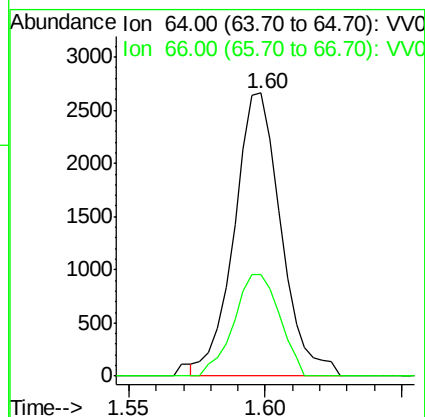
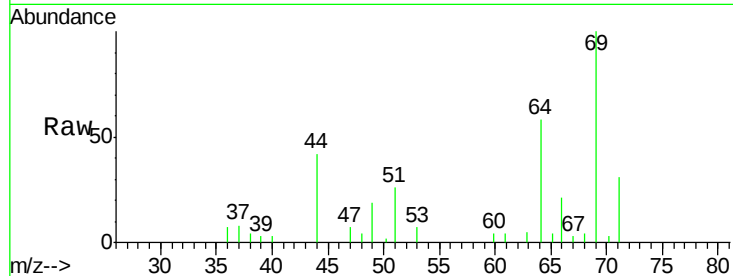
#8
Chloroethane
Concen: 3.136 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
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Tot Ion: 64 Resp: 3173
Ion Ratio Lower Upper
64 100
66 35.9 22.5 41.9

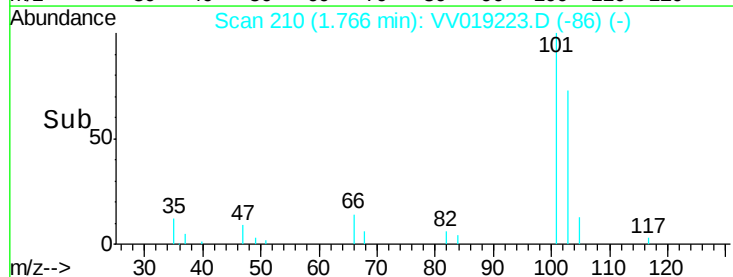
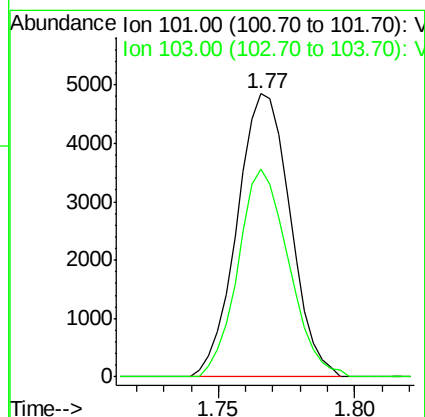
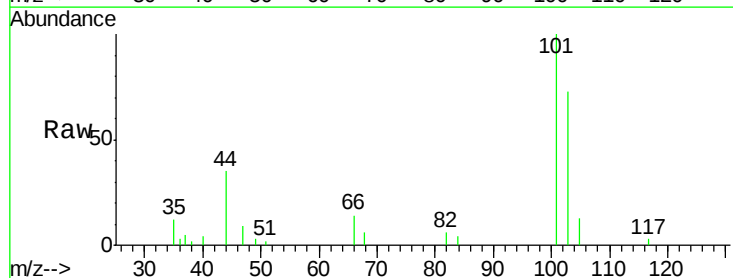
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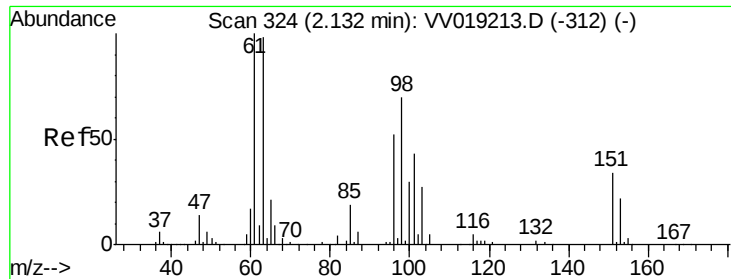
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11/4/2020 10:45:02 AM



#9
Trichlorofluoromethane
Concen: 2.561 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion: 101 Resp: 6560
Ion Ratio Lower Upper
101 100
103 69.8 52.3 78.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.587 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

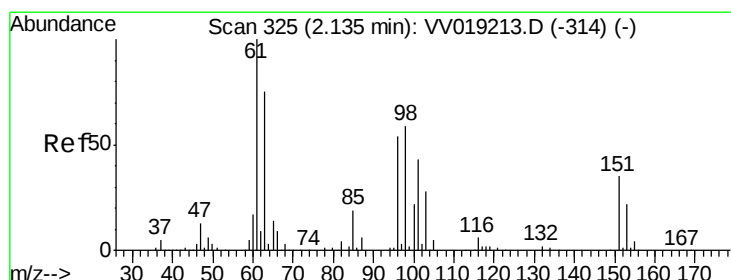
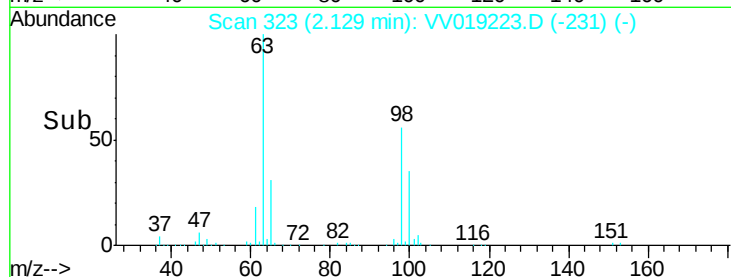
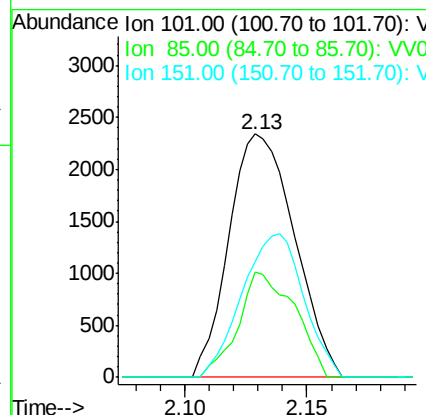
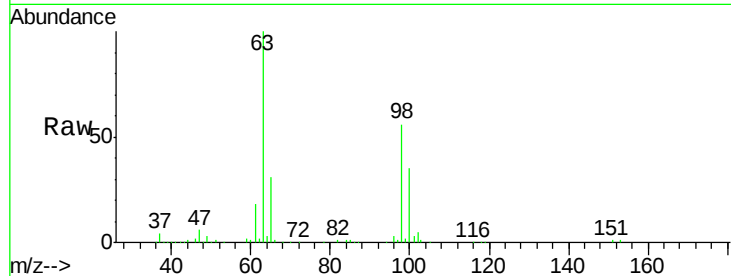
ClientSampleId :

MDL-WATER-01

Tot Ion:	101	Resp:	4365
Ion Ratio	Lower	Upper	
101	100		
85	37.3	35.6	53.4
151	55.5	64.1	96.1#

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#12

1,1-Dichloroethene

Concen: 3.556 ug/L

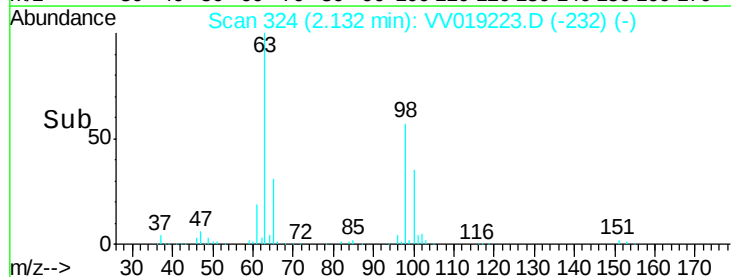
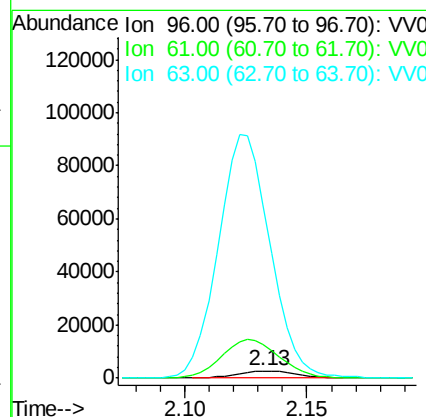
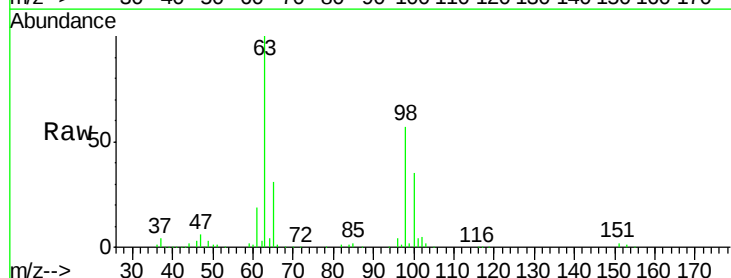
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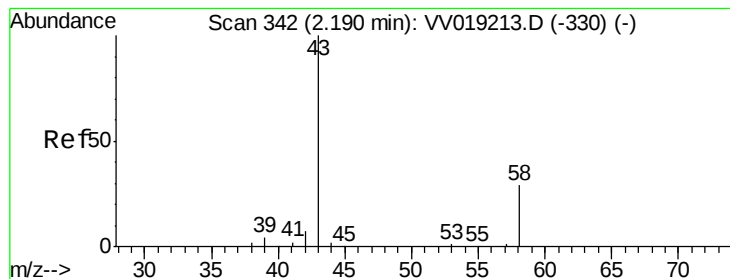
Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tgt Ion:	96	Resp:	4473
Ion Ratio	Lower	Upper	
96	100		
61	476.6	133.6	248.0#
63	2454.9	103.0	191.2#





#13

Acetone

Concen: 5.184 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tot Ion: 43 Resp: 3908

Ion Ratio Lower Upper

43 100

58 10.6 0.0 57.8

Instrument :

MSVOA_V

ClientSampleId :

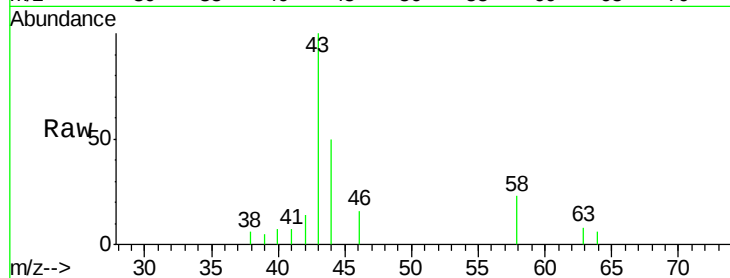
MDL-WATER-01

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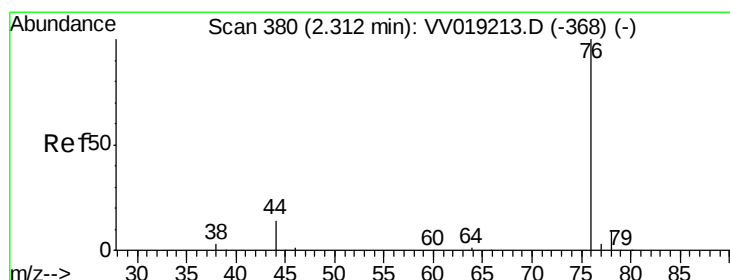
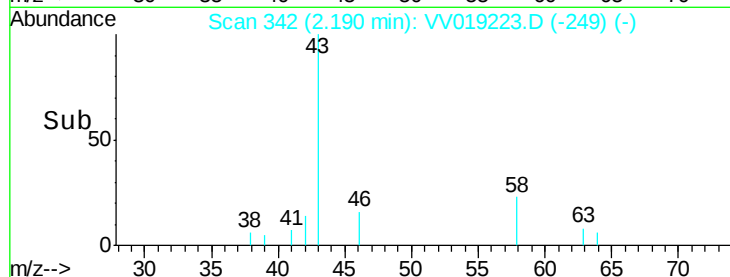
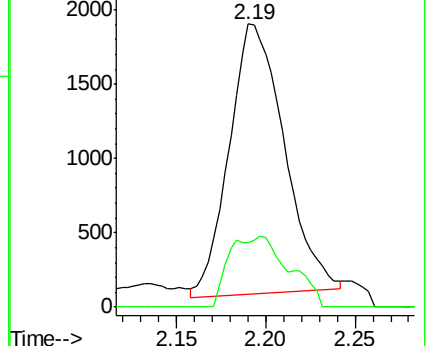
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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.634 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV019223.D

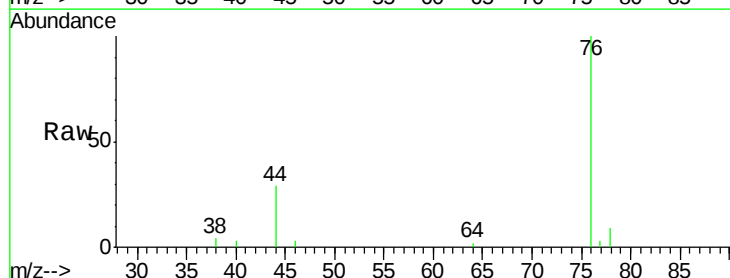
Acq: 03 Nov 2020 02:04

Tgt Ion: 76 Resp: 9513

Ion Ratio Lower Upper

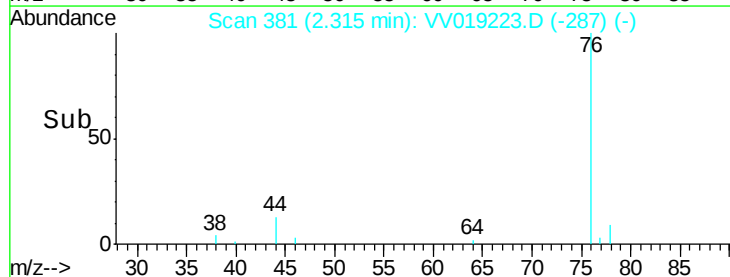
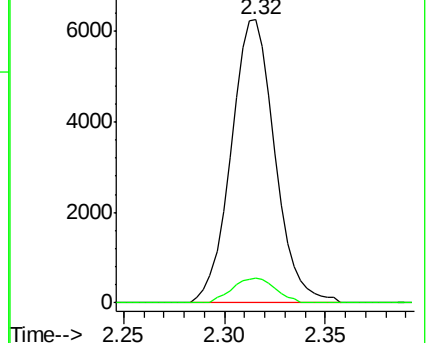
76 100

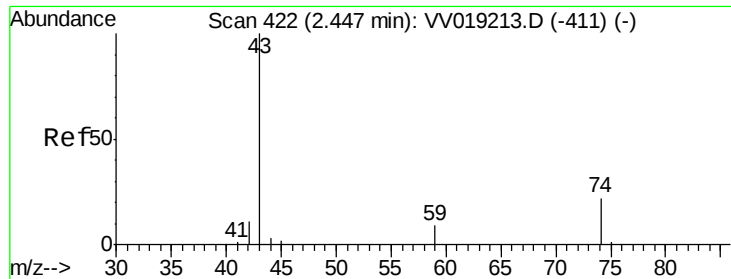
78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 2.705 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.01 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tot Ion: 43 Resp: 3951

Ion Ratio Lower Upper

43 100

74 19.5 18.8 28.2

Instrument :

MSVOA_V

ClientSampleId :

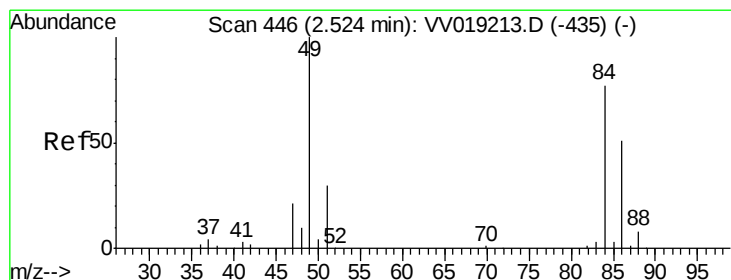
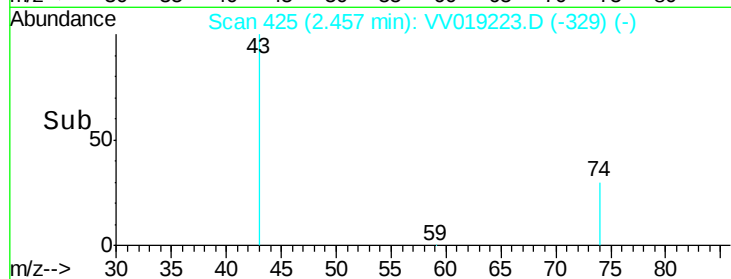
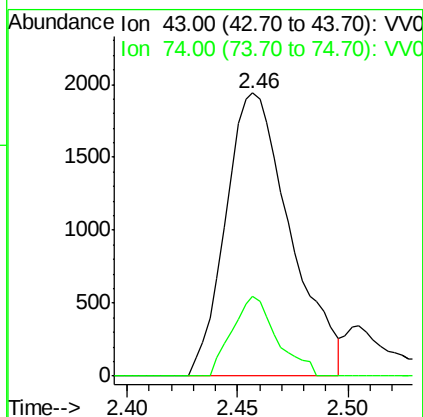
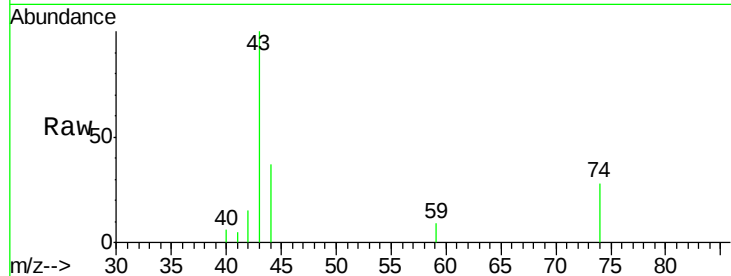
MDL-WATER-01

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#16

Methylene chloride

Concen: 2.793 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

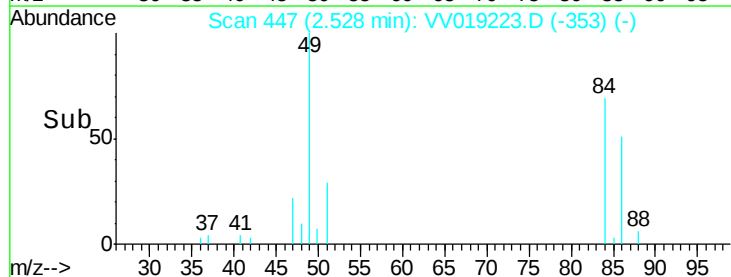
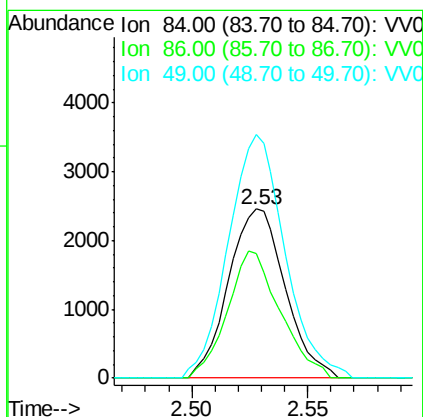
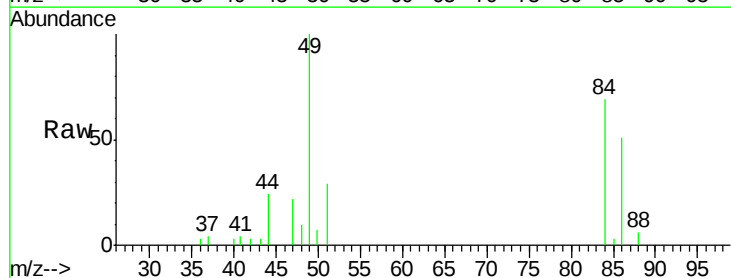
Tgt Ion: 84 Resp: 4176

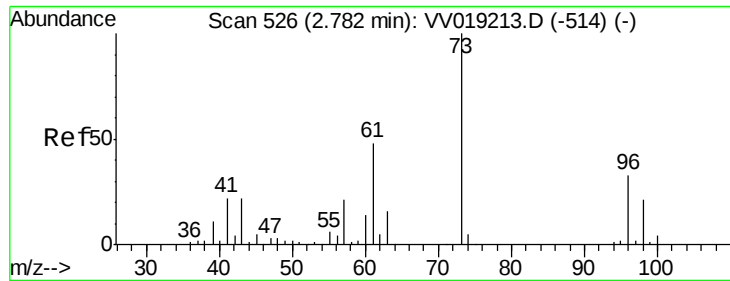
Ion Ratio Lower Upper

84 100

86 73.4 45.6 84.8

49 144.0 89.3 165.9





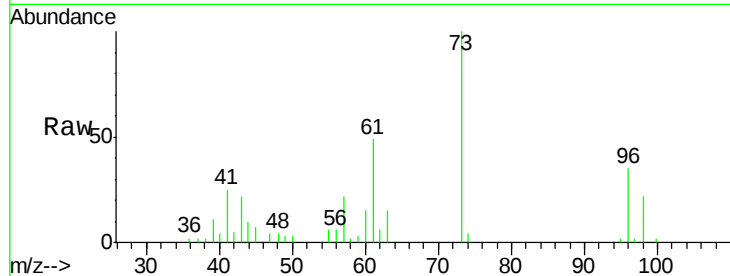
#17
trans-1,2-Dichloroethene
Concen: 2.671 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

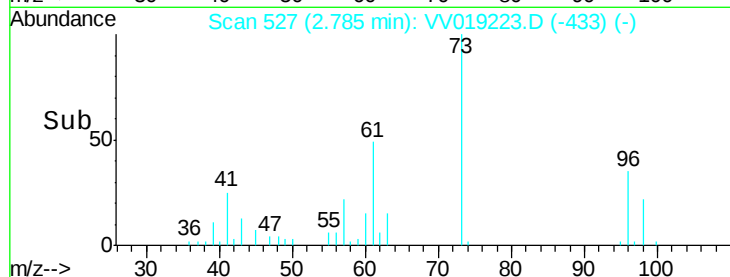
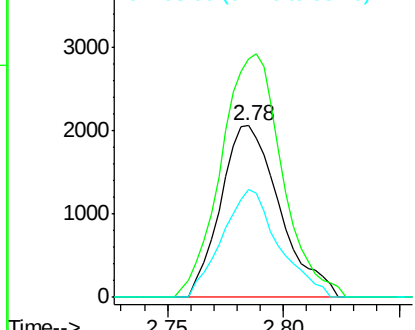
Tot Ion	Ratio	Lower	Upper
96	100		
61	138.8	100.7	187.1
98	62.8	42.9	79.7

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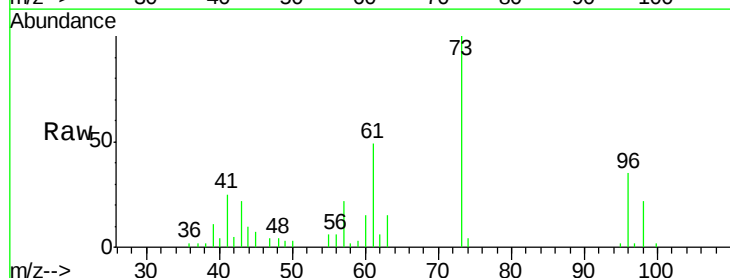
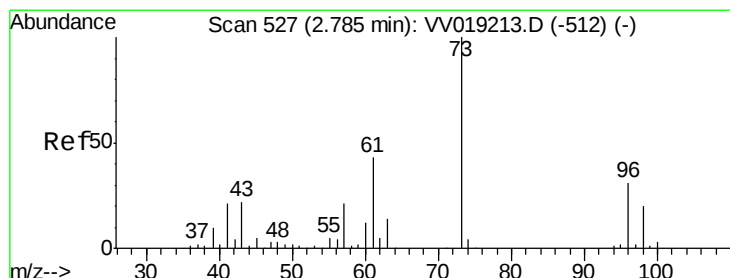


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

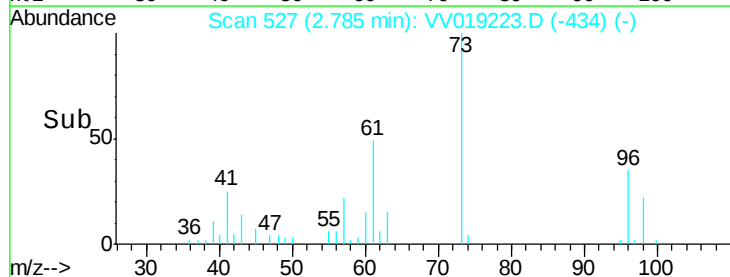
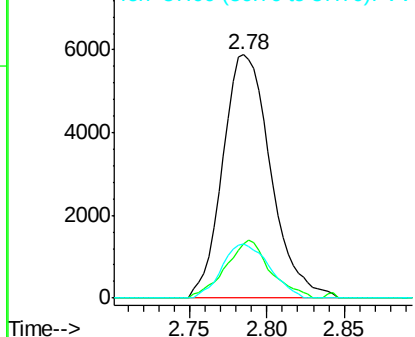


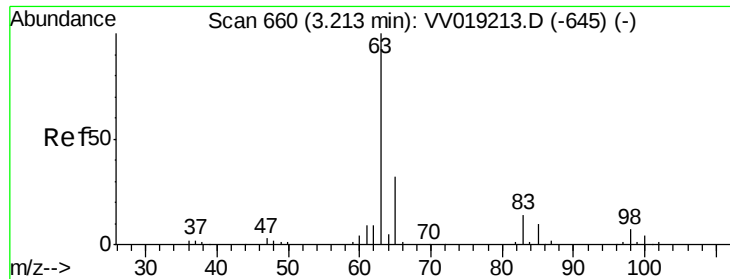
#18
Methyl tert-butyl Ether
Concen: 2.647 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.1	17.9	26.9
57	22.0	17.1	25.7



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





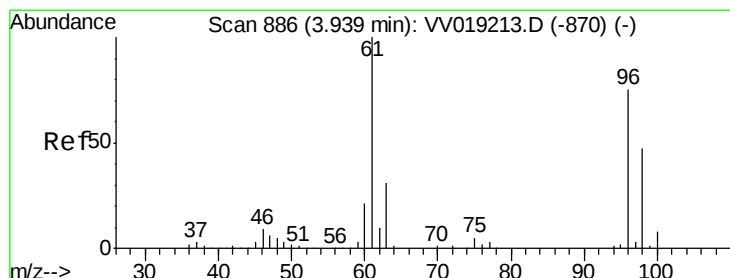
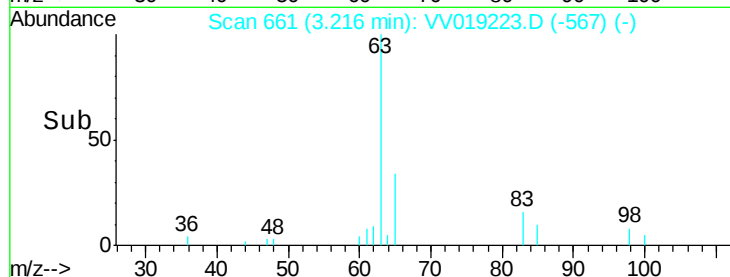
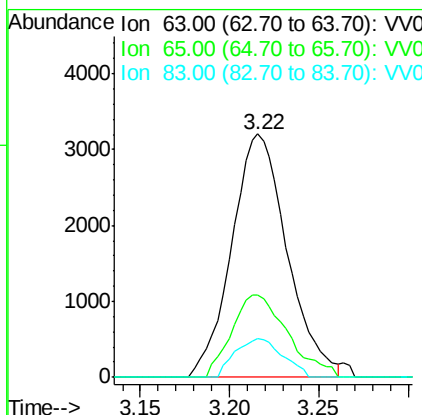
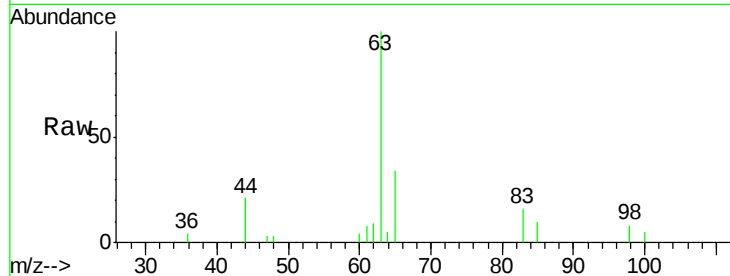
#19
 1,1-Dichloroethane
 Concen: 2.604 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion:	63	Resp:	6961
Ion	Ratio	Lower	Upper
63	100		
65	33.8	21.8	40.6
83	16.0	9.5	17.7

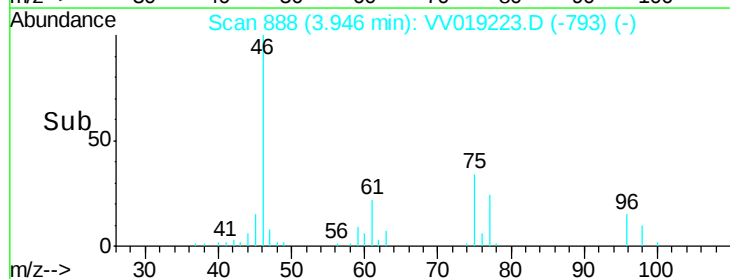
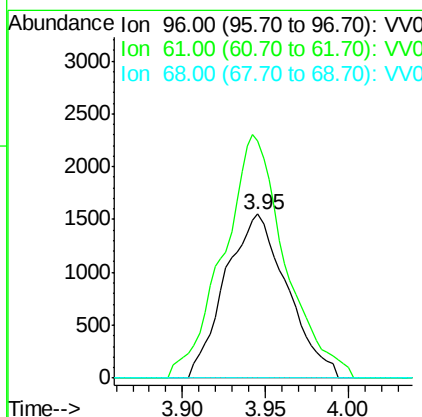
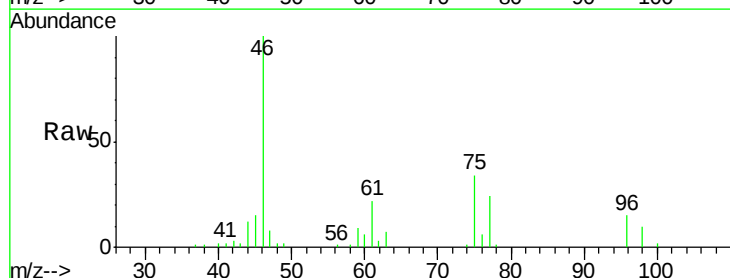
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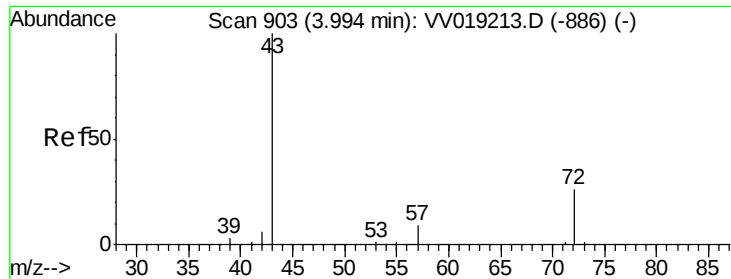
MMDadoda
 11/4/2020 10:45:02 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.665 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion:	96	Resp:	4019
Ion	Ratio	Lower	Upper
96	100		
61	144.7	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.466 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.04 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion: 43 Resp: 4274

Ion Ratio Lower Upper

43 100

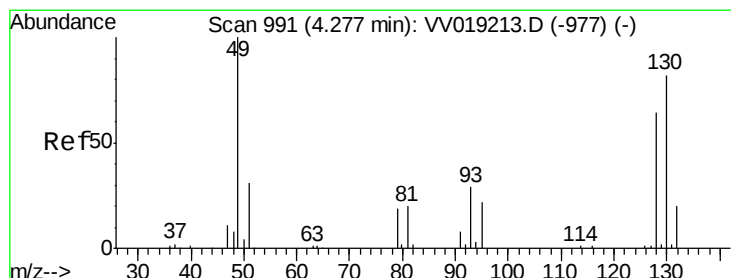
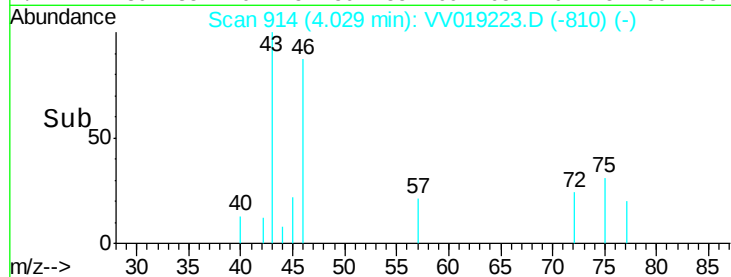
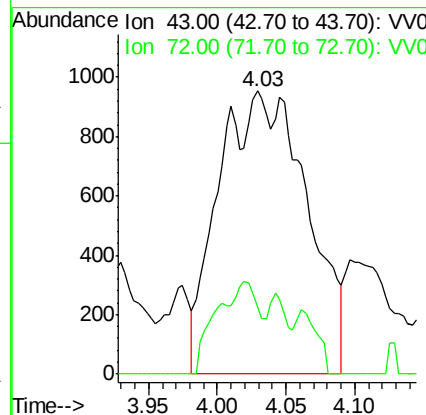
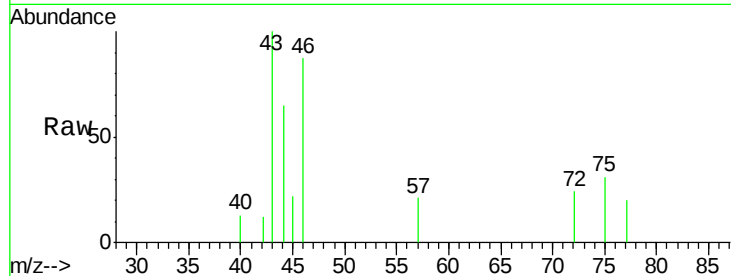
72 7.0 12.7 38.0#

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#23

Bromochloromethane

Concen: 2.590 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tgt Ion: 128 Resp: 2150

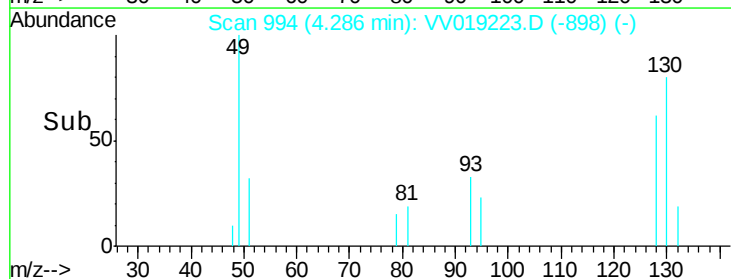
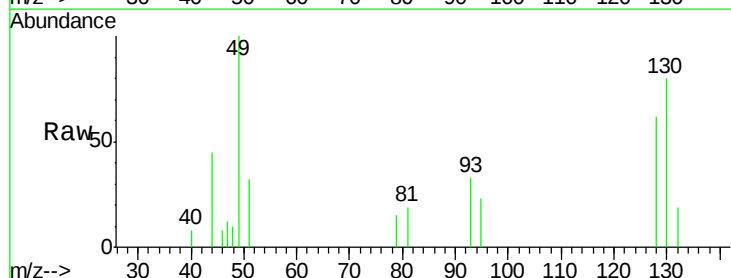
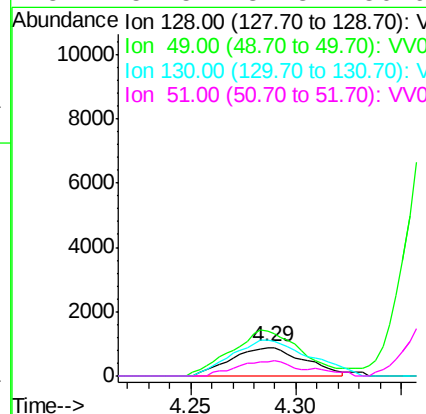
Ion Ratio Lower Upper

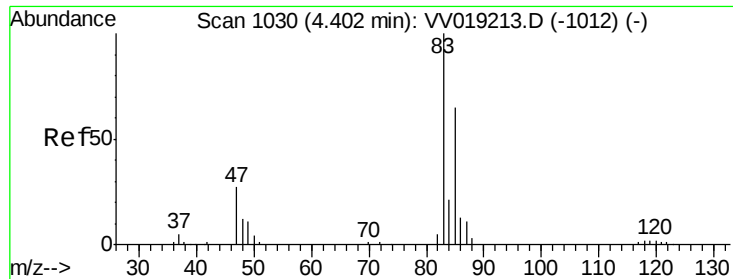
128 100

49 160.1 108.8 202.2

130 128.6 88.5 164.3

51 51.5 37.8 56.6





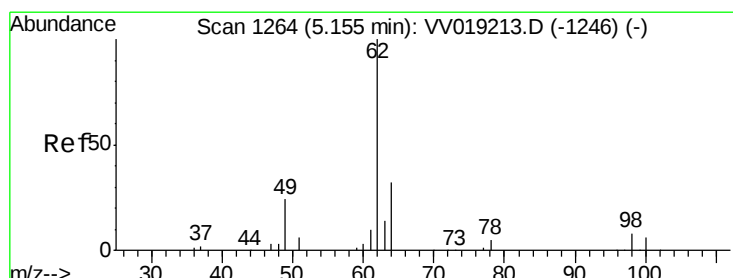
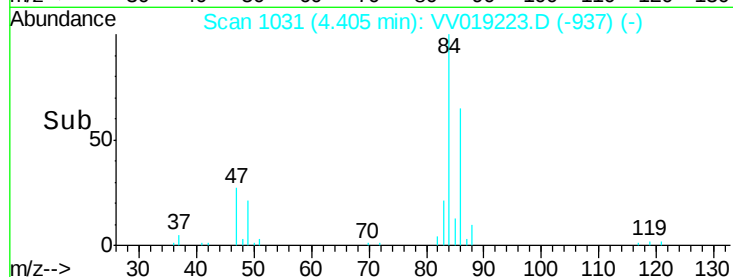
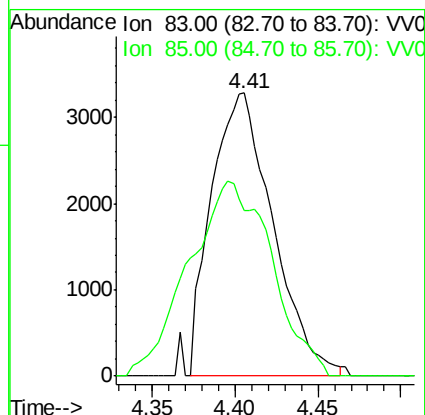
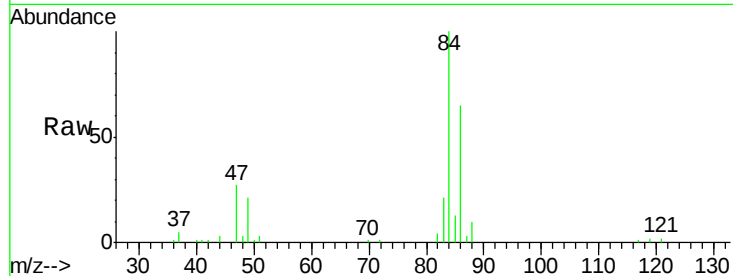
#25
Chloroform
Concen: 2.962 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion: 83 Resp: 8490
Ion Ratio Lower Upper
83 100
85 58.7 45.4 84.4

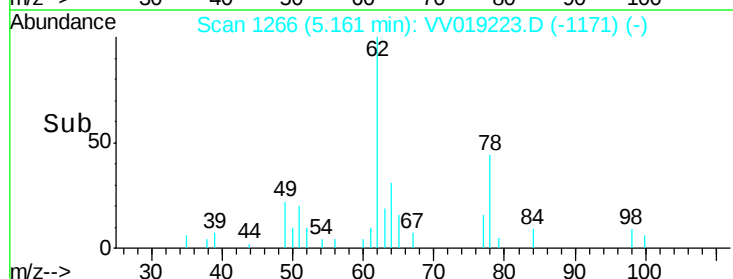
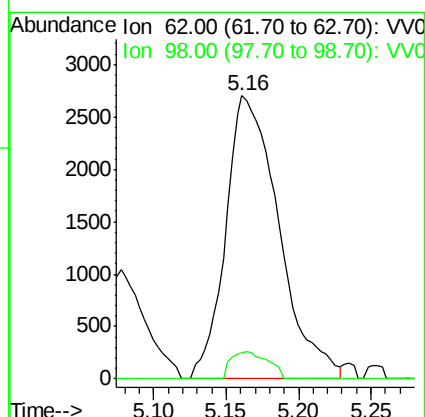
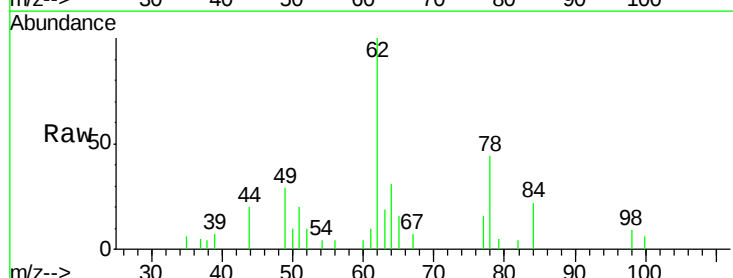
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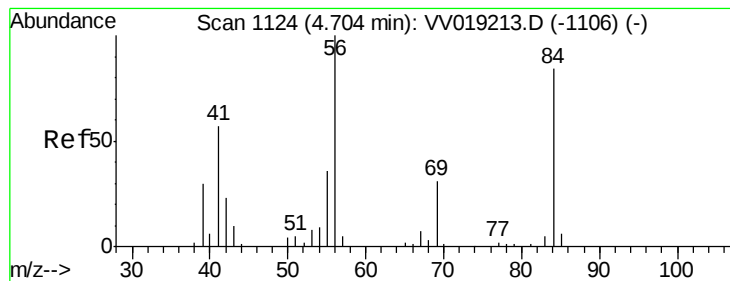
MMDadoda
11/4/2020 10:45:02 AM



#27
1,2-Dichloroethane
Concen: 2.821 ug/L
RT: 5.16 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion: 62 Resp: 6872
Ion Ratio Lower Upper
62 100
98 9.4 6.8 10.2





#29

Cvclohexane

Concen: 2.230 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

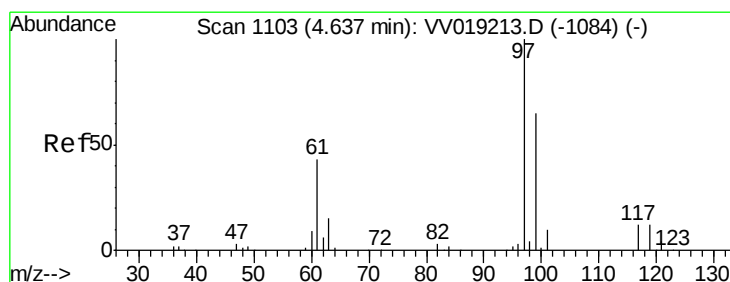
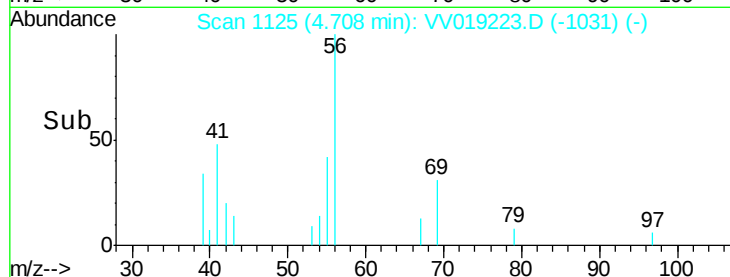
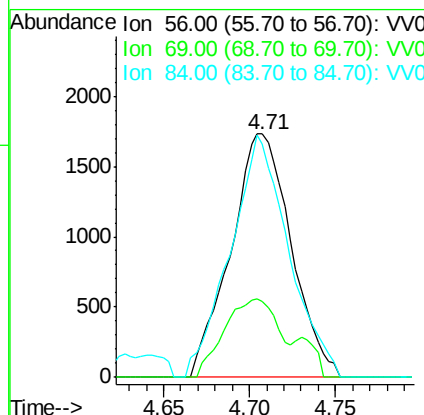
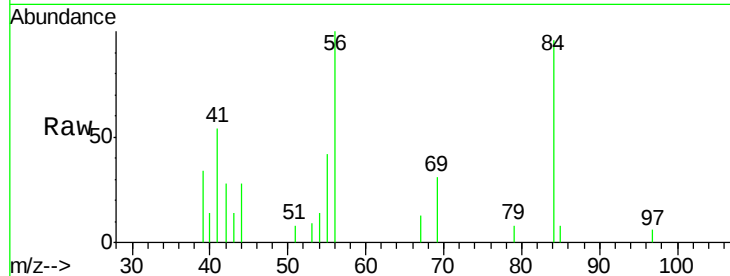
ClientSampleId :

MDL-WATER-01

Tot Ion:	56	Resp:	4233
Ion	Ratio	Lower	Upper
56	100		
69	28.9	24.6	36.8
84	96.0	70.5	105.7

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#30

1,1,1-Trichloroethane

Concen: 2.606 ug/L

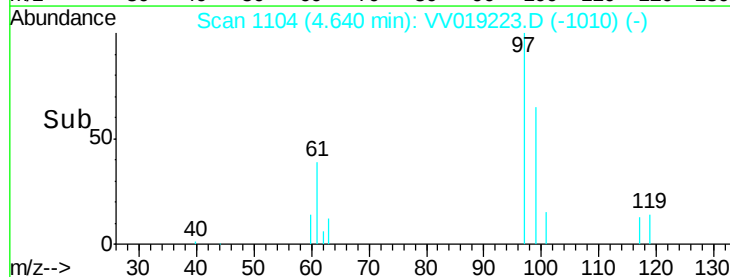
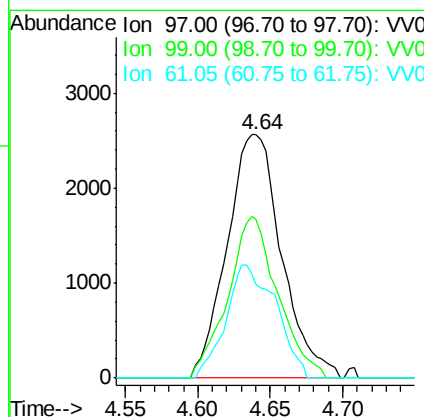
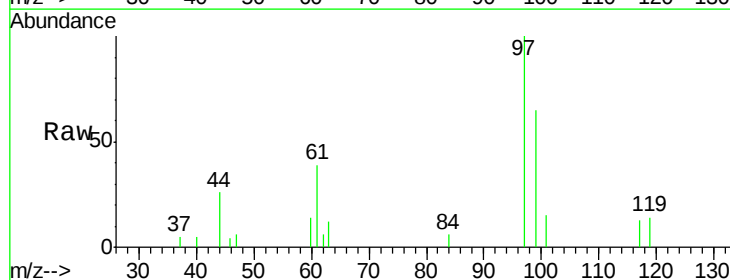
RT: 4.64 min Scan# 1104

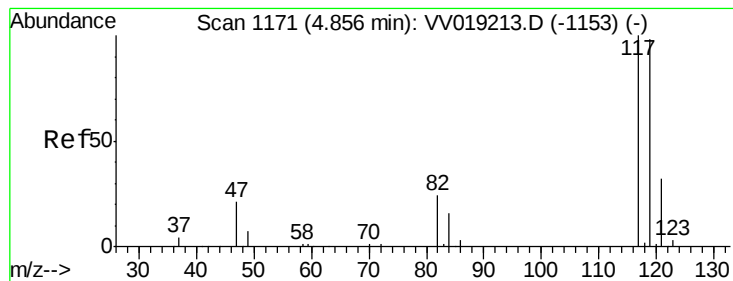
Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tgt Ion:	97	Resp:	6703
Ion	Ratio	Lower	Upper
97	100		
99	60.5	52.0	78.0
61	42.5	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.554 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion:117 Resp: 5673

Ion Ratio Lower Upper

117 100

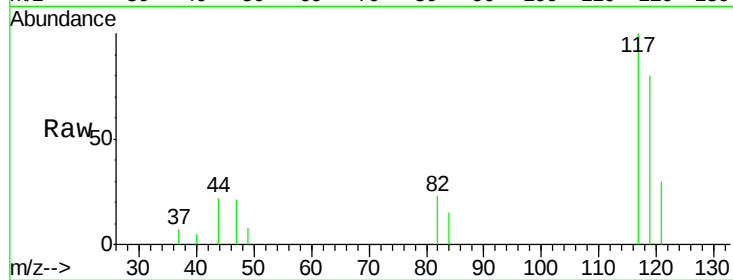
119 86.6 77.8 116.6

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.86

2500

2000

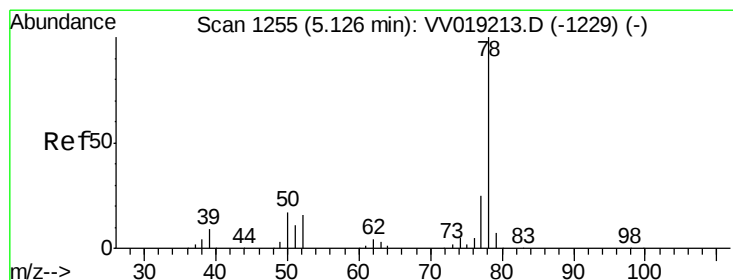
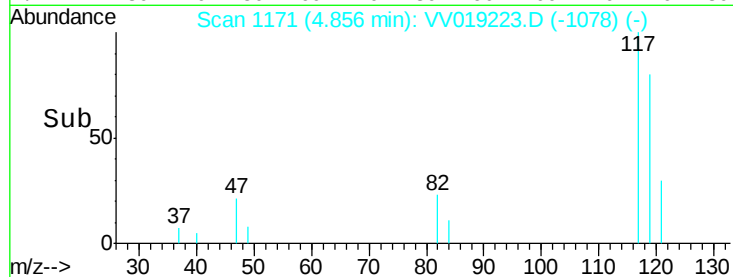
1500

1000

500

0

Time-->



#33

Benzene

Concen: 2.756 ug/L

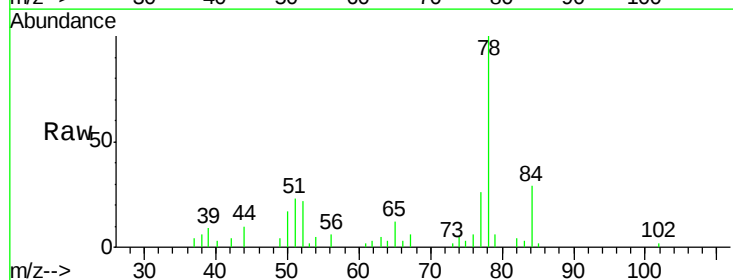
RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tgt Ion: 78 Resp: 15189



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.13

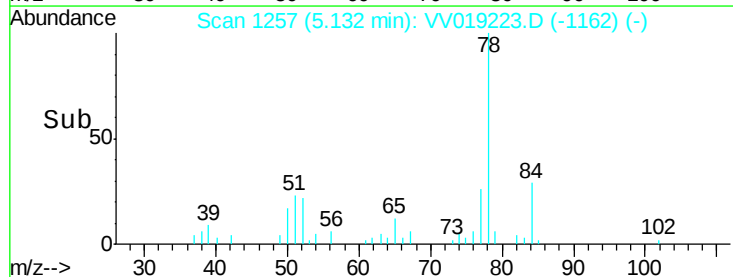
6000

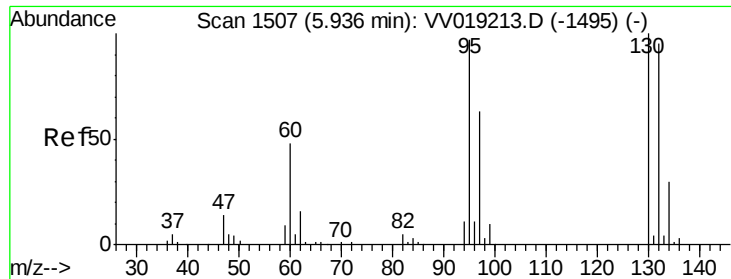
4000

2000

0

Time-->





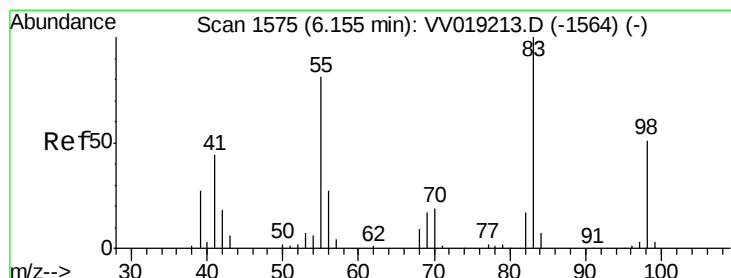
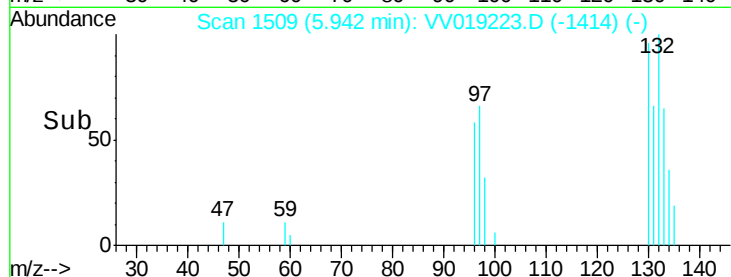
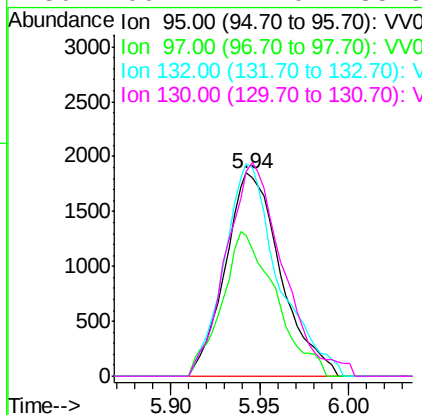
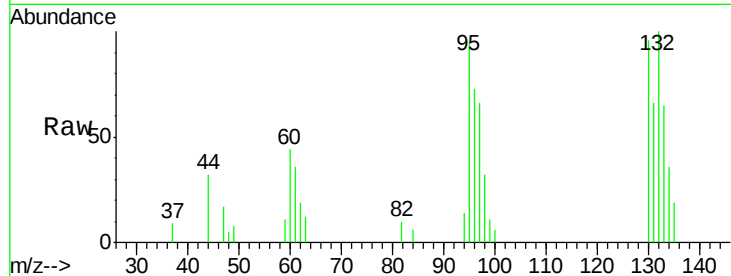
#34
 Trichloroethene
 Concen: 2.672 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion: 95 Resp: 4003
 Ion Ratio Lower Upper
 95 100
 97 69.4 45.4 84.4
 132 104.9 68.5 127.3
 130 100.7 72.0 133.6

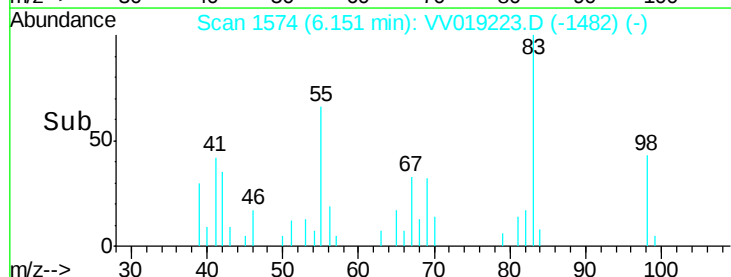
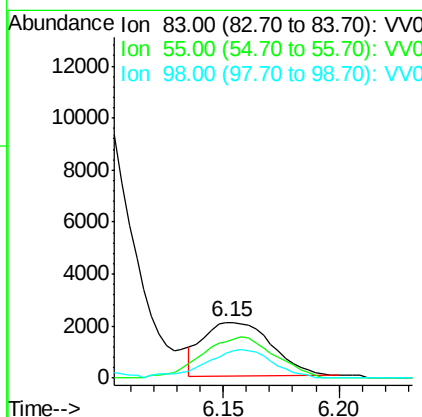
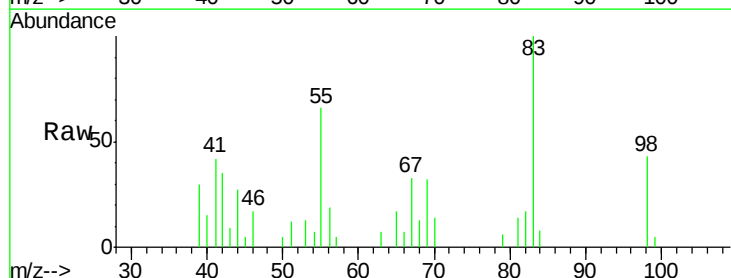
Manual Integrations
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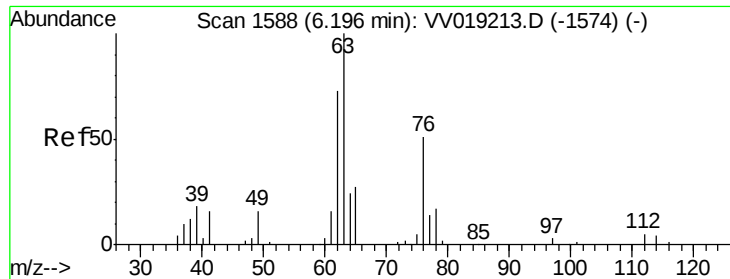
MMDadoda
 11/4/2020 10:45:02 AM



#35
 Methylcyclohexane
 Concen: 2.345 ug/L
 RT: 6.15 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion: 83 Resp: 4251
 Ion Ratio Lower Upper
 83 100
 55 80.8 62.8 94.2
 98 52.1 38.6 58.0





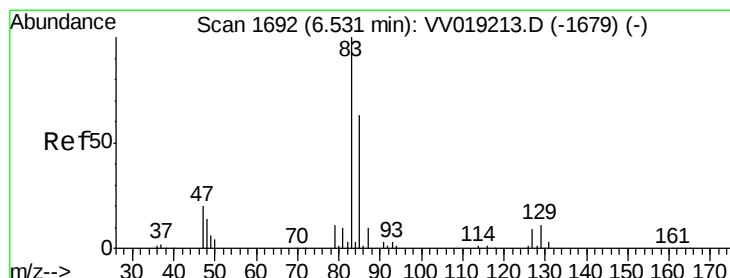
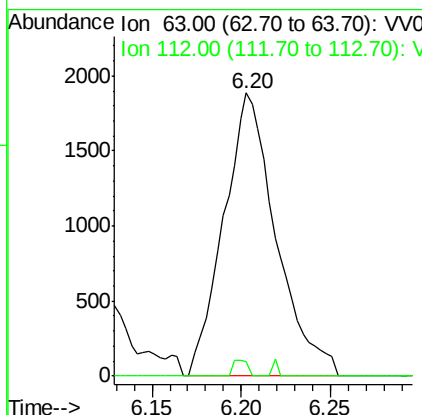
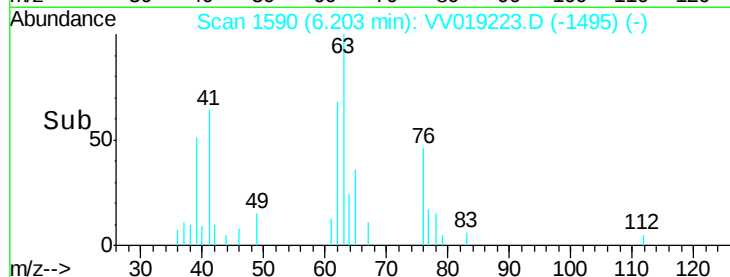
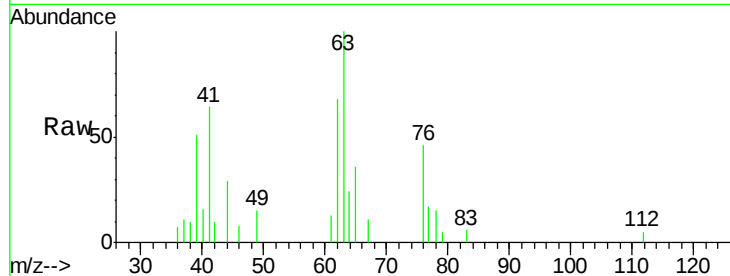
#37
 1,2-Dichloropropane
 Concen: 2.618 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion: 63 Resp: 3851
 Ion Ratio Lower Upper
 63 100
 112 1.6 4.2 6.2#

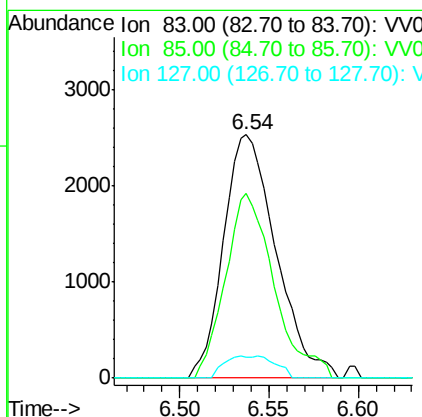
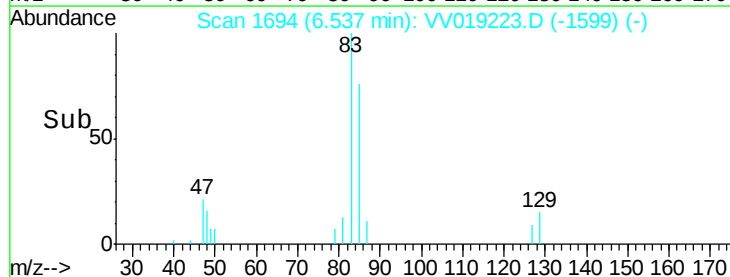
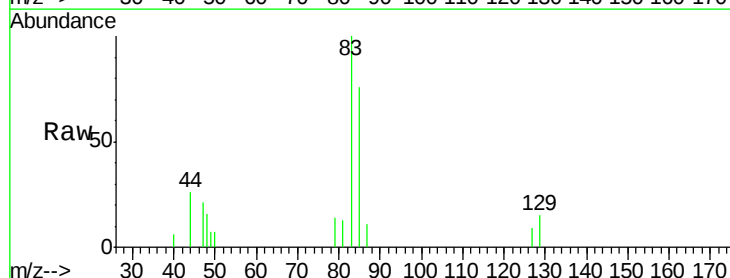
Manual Integrations
 APPROVED

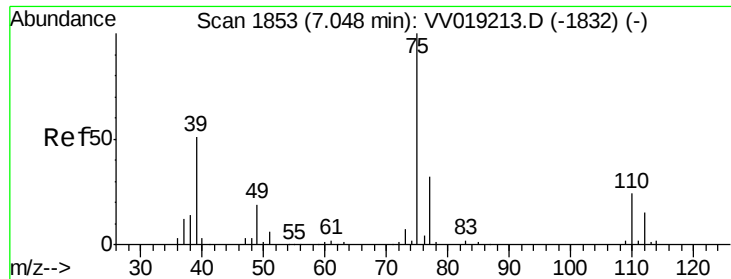
MMDadoda
 11/4/2020 10:45:02 AM



#38
 Bromodichloromethane
 Concen: 2.457 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion: 83 Resp: 5201
 Ion Ratio Lower Upper
 83 100
 85 75.7 44.0 81.8
 127 8.8 7.3 10.9





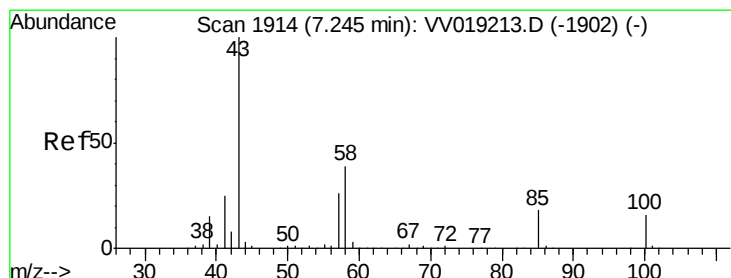
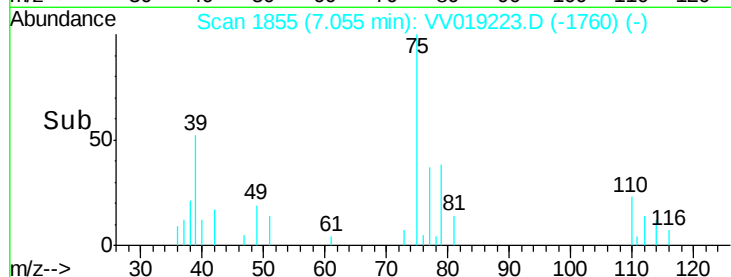
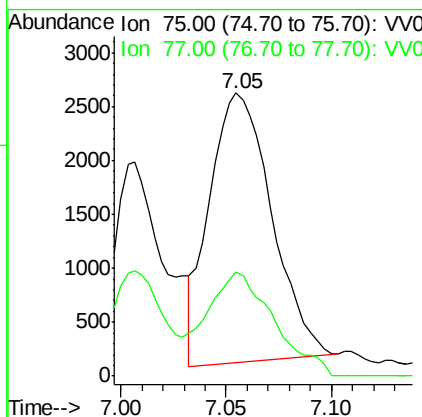
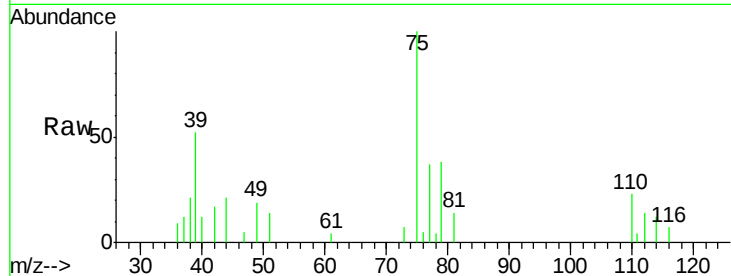
#39
 cis-1,3-Dichloropropene
 Concen: 2.164 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-01

Tot Ion: 75 Resp: 5094
 Ion Ratio Lower Upper
 75 100
 77 36.8 22.2 41.2

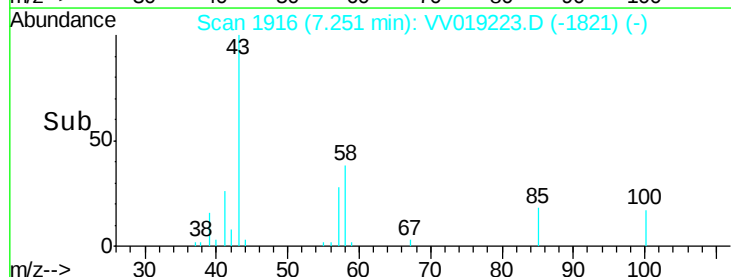
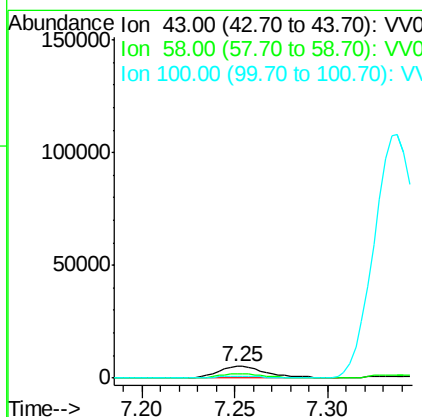
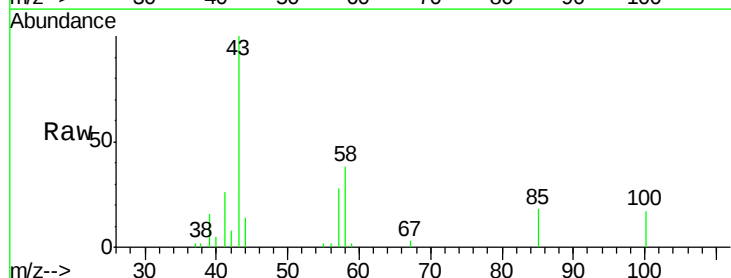
Manual Integrations
 APPROVED

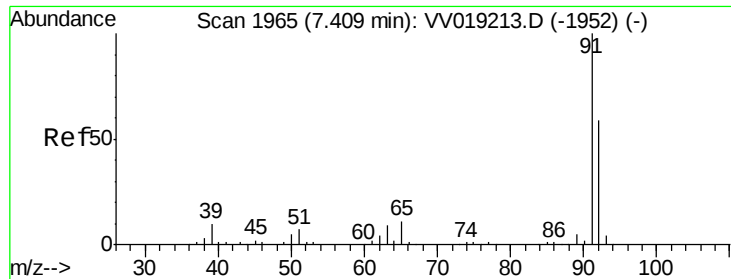
MMDadoda
 11/4/2020 10:45:02 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.870 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion: 43 Resp: 9623
 Ion Ratio Lower Upper
 43 100
 58 35.0 30.5 45.7
 100 15.1 12.7 19.1





#42

Toluene

Concen: 2.936 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion: 91 Resp: 17489

Ion Ratio Lower Upper

91 100

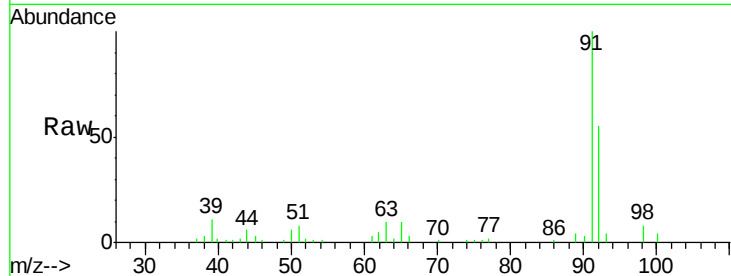
92 55.1 40.6 75.4

Manual Integrations

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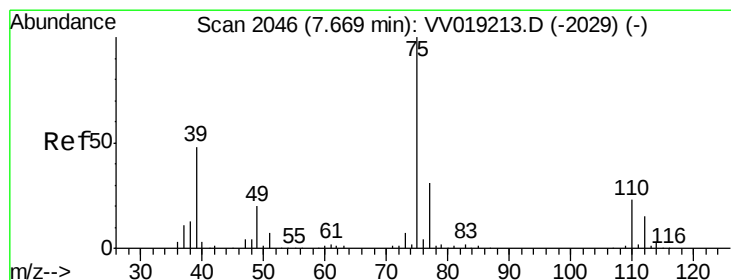
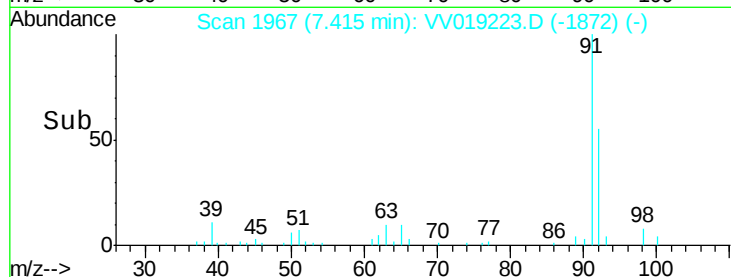
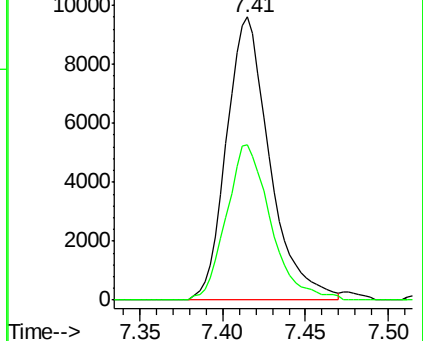
MMDadoda

11/4/2020 10:45:02 AM



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.170 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019223.D

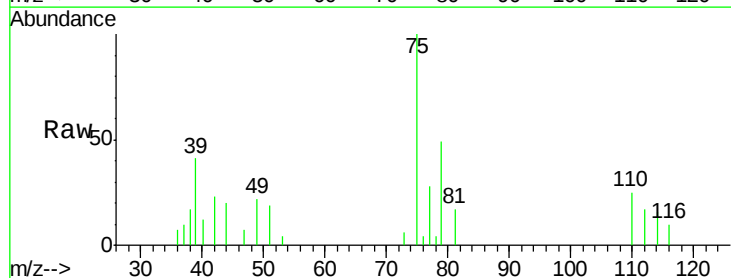
Acq: 03 Nov 2020 02:04

Tgt Ion: 75 Resp: 5235

Ion Ratio Lower Upper

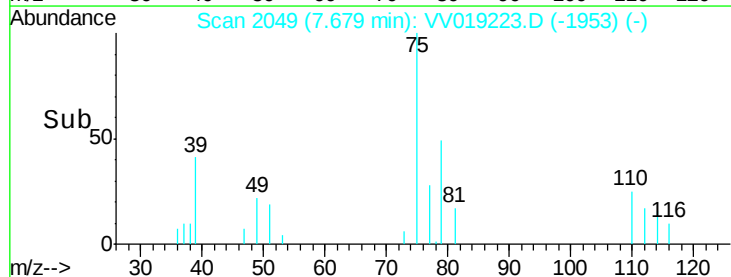
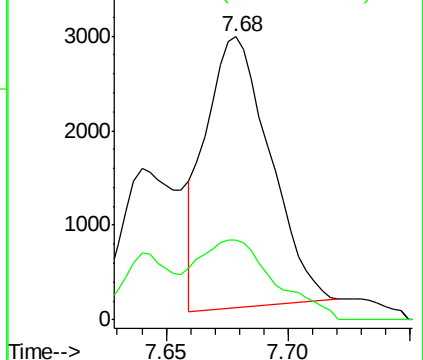
75 100

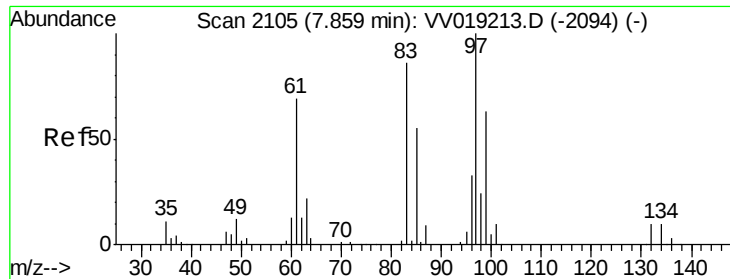
77 28.0 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





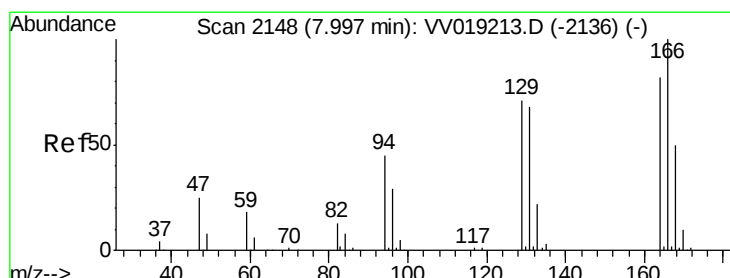
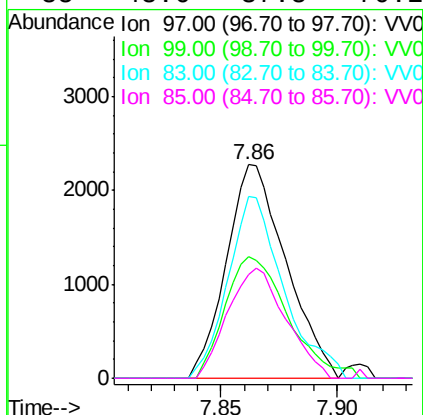
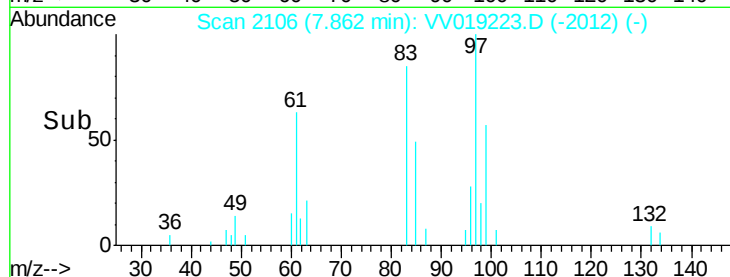
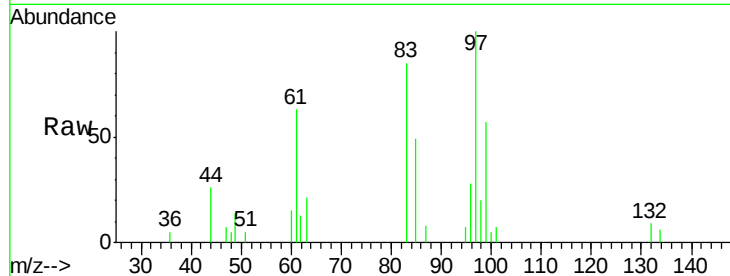
#45
1,1,2-Trichloroethane
Concen: 2.789 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion:	97	Resp:	4055
Ion	Ratio	Lower	Upper
97	100		
99	56.7	45.1	83.9
83	85.0	57.6	107.0
85	48.6	37.8	70.2

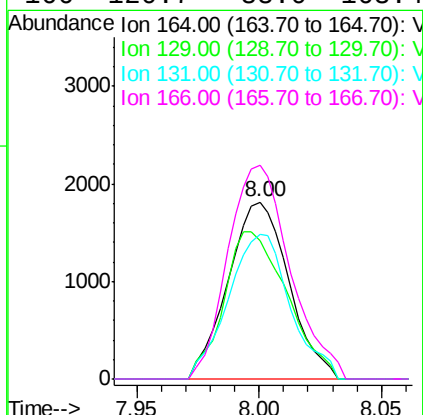
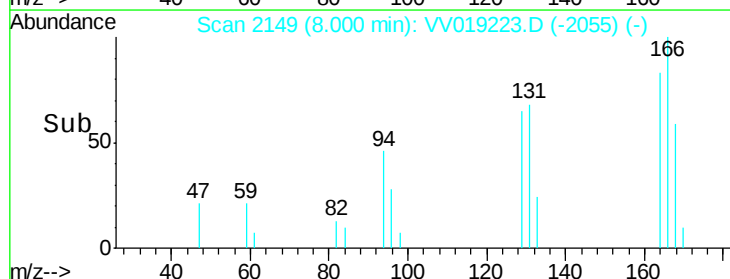
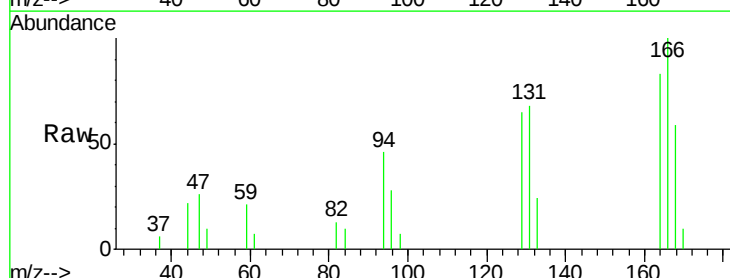
Manual Integrations
APPROVED

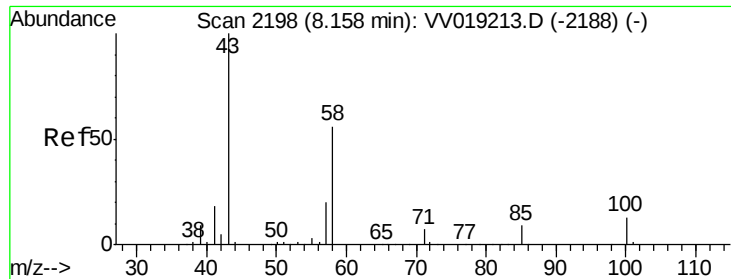
MMDadoda
11/4/2020 10:45:02 AM



#46
Tetrachloroethene
Concen: 2.561 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion:	164	Resp:	3130
Ion	Ratio	Lower	Upper
164	100		
129	77.8	62.6	116.3
131	81.8	59.0	109.6
166	120.7	88.0	163.4





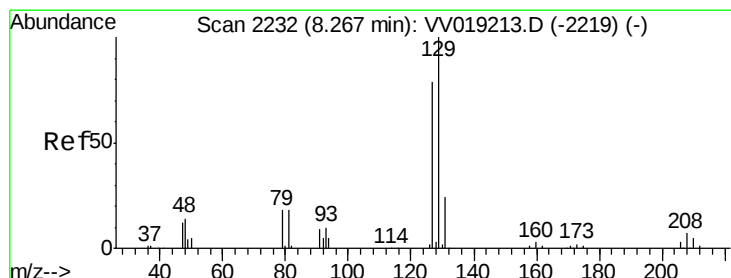
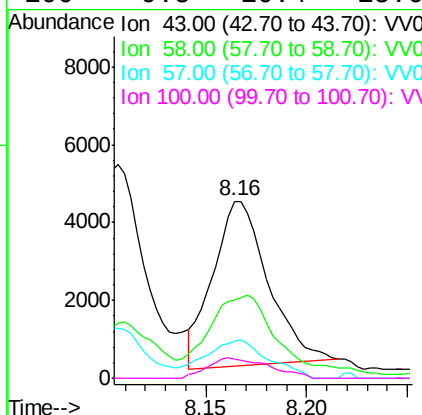
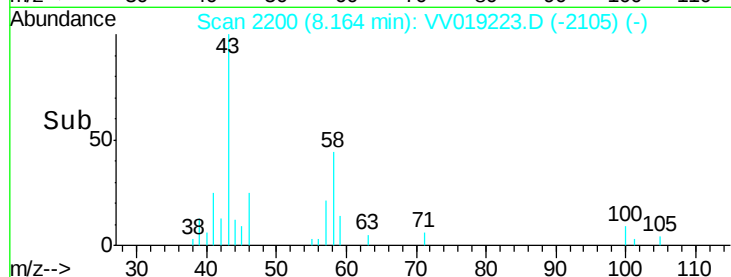
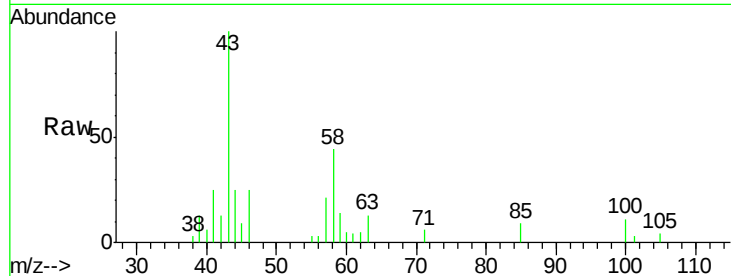
#48
2-Hexanone
Concen: 5.388 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	42.6	63.8
57	26.6	15.8	23.8
100	9.5	10.4	15.6

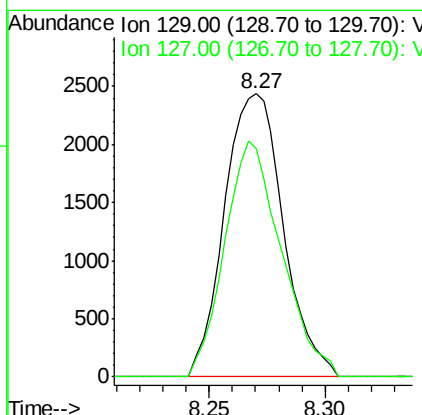
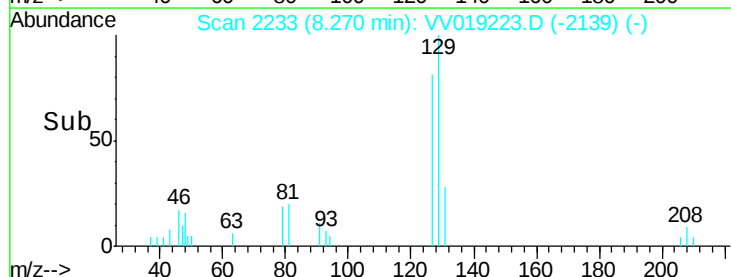
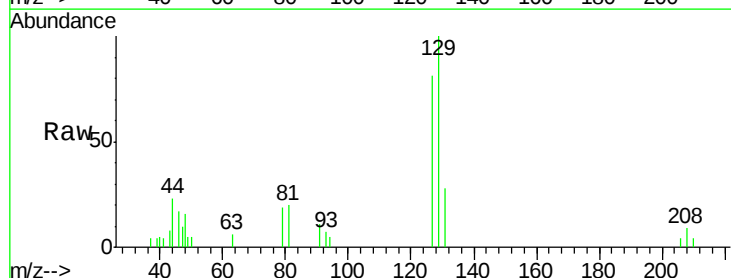
Manual Integrations
APPROVED

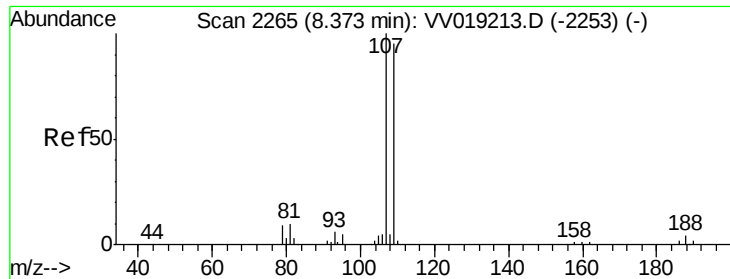
MMDadoda
11/4/2020 10:45:02 AM



#49
Dibromochloromethane
Concen: 2.477 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.9	54.4	101.0





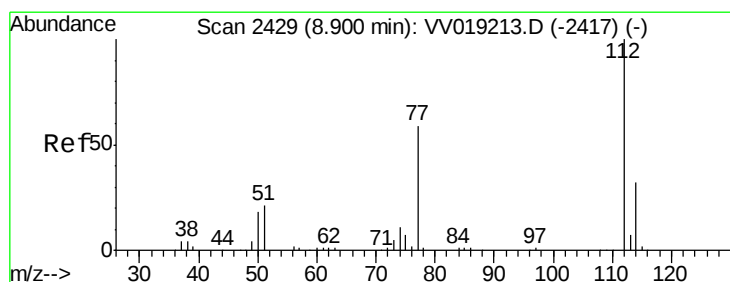
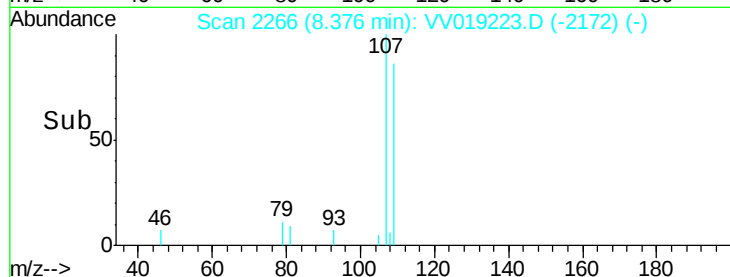
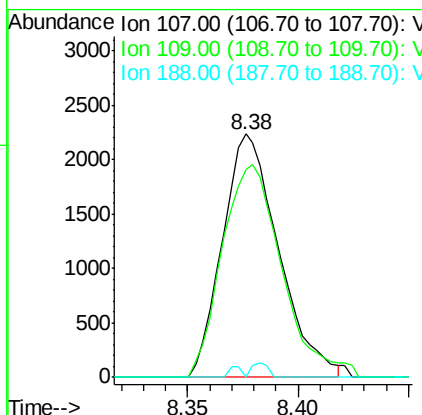
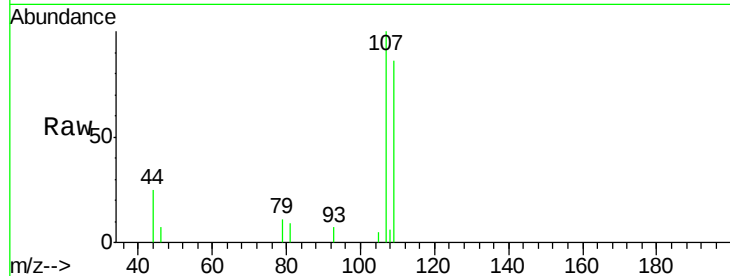
#50
1,2-Dibromoethane
Concen: 2.620 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
107	100		
109	85.5	64.8	120.4
188	0.0	3.8	5.8#

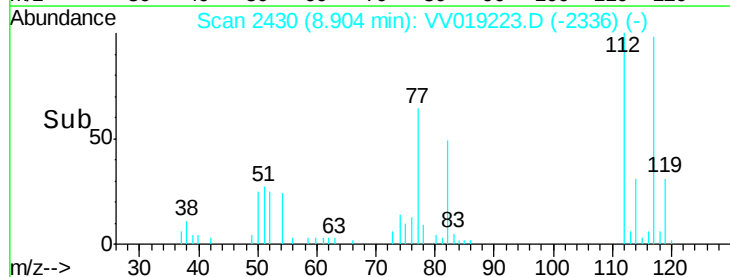
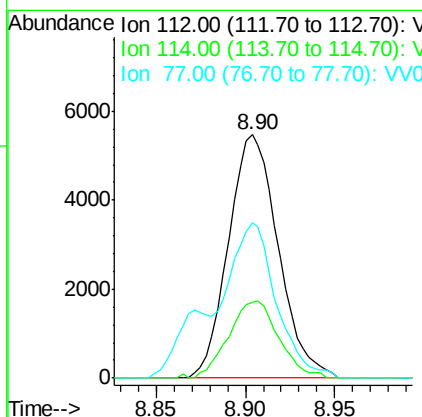
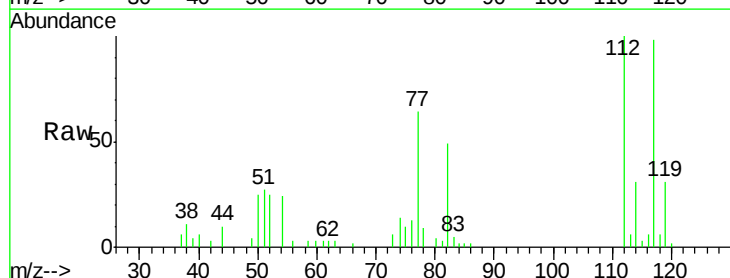
Manual Integrations
APPROVED

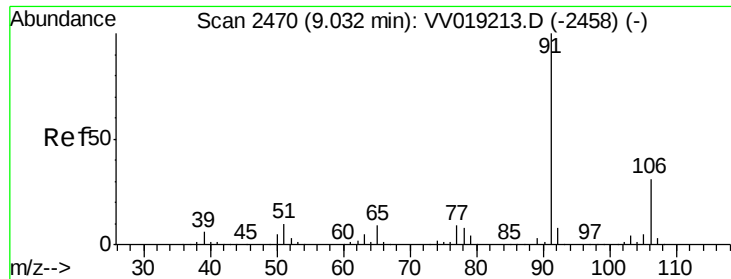
MMDadoda
11/4/2020 10:45:02 AM



#51
Chlorobenzene
Concen: 2.678 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.7	42.1
77	63.6	47.3	70.9





#52

Ethylbenzene

Concen: 2.401 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tot Ion: 91 Resp: 15784

Ion Ratio Lower Upper

91 100

106 31.9 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

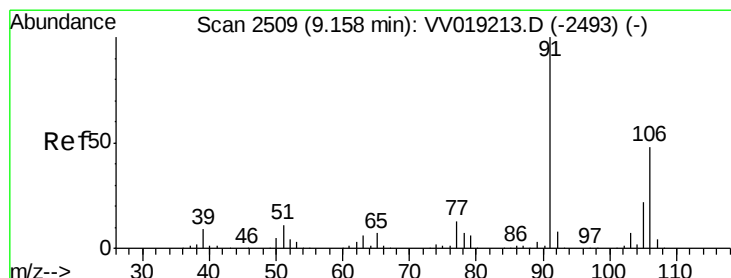
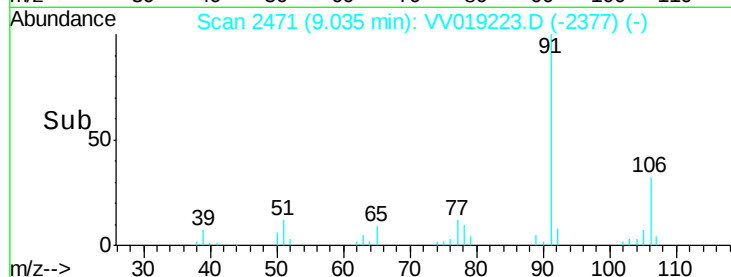
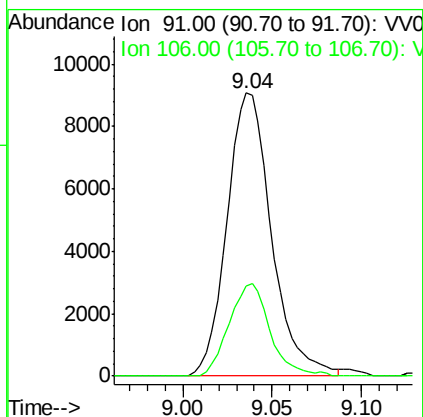
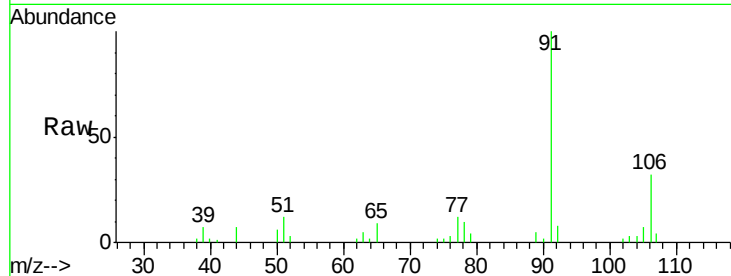
MDL-WATER-01

Manual Integrations

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11/4/2020 10:45:02 AM



#53

m,p-Xylene

Concen: 2.415 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019223.D

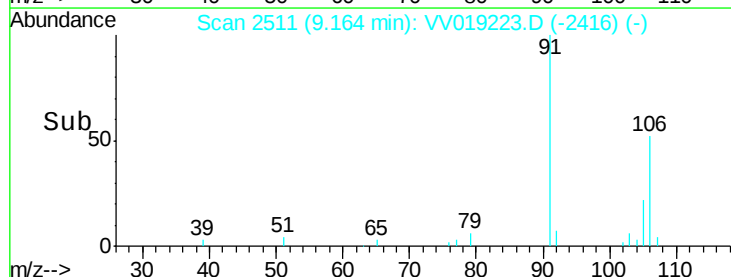
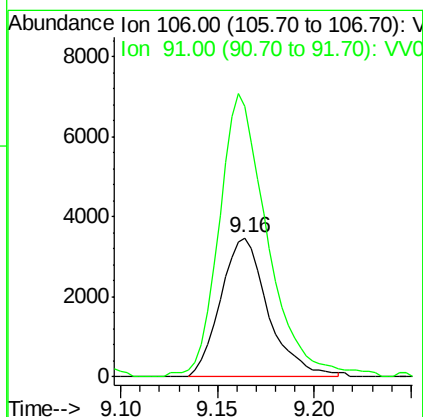
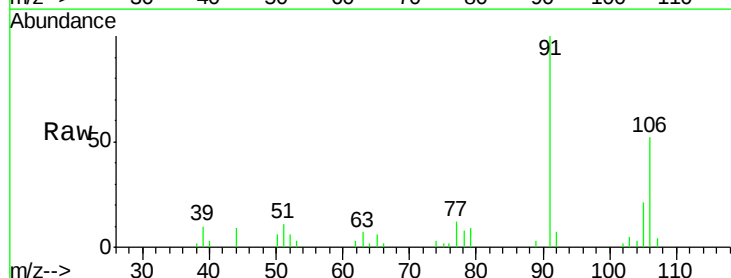
Acq: 03 Nov 2020 02:04

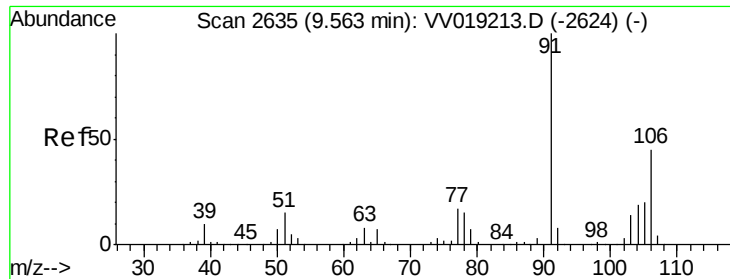
Tgt Ion: 106 Resp: 5943

Ion Ratio Lower Upper

106 100

91 193.8 147.2 273.4





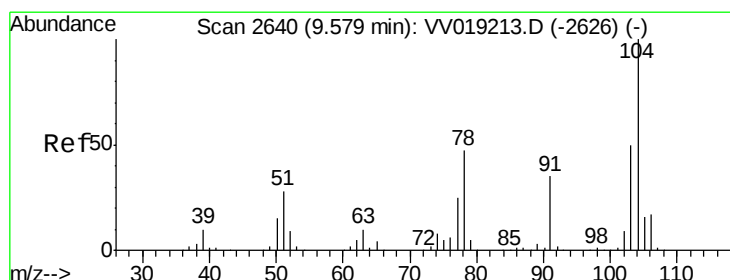
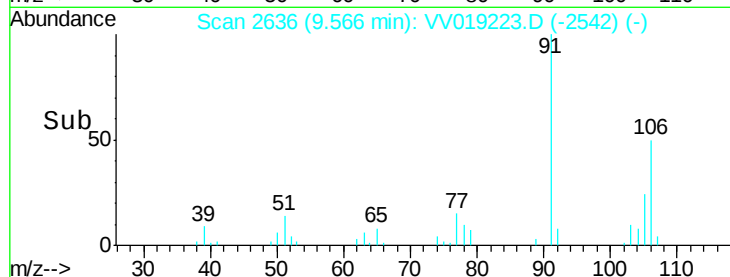
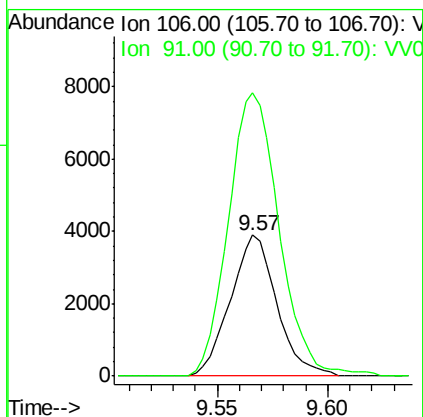
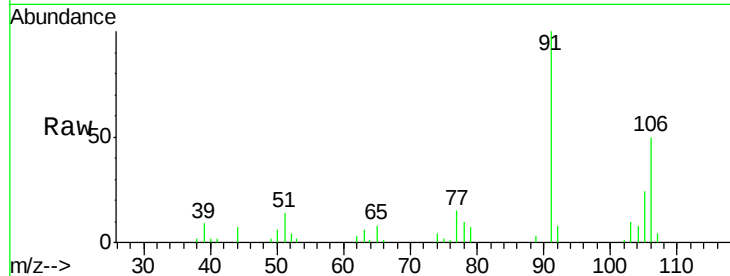
#54
o-Xylene
Concen: 2.352 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion:106 Resp: 5706
Ion Ratio Lower Upper
106 100
91 201.0 151.6 281.6

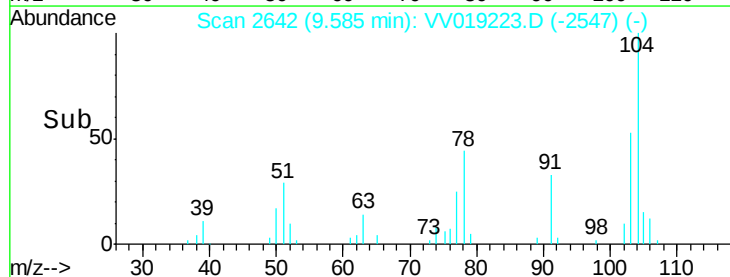
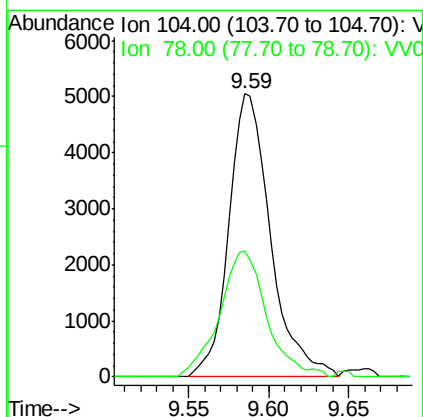
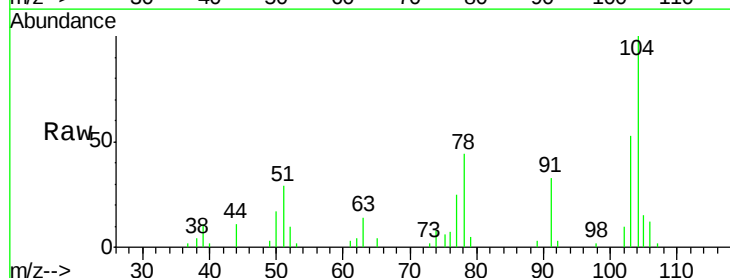
Manual Integrations
APPROVED

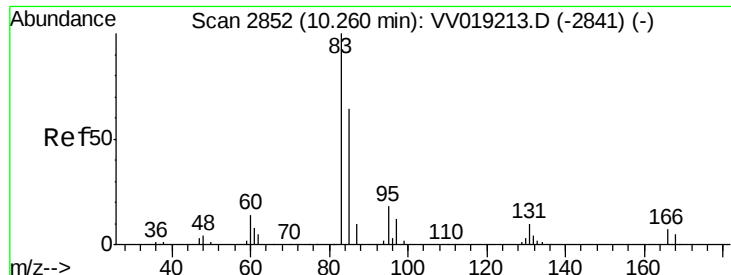
MMDadoda
11/4/2020 10:45:02 AM



#55
Styrene
Concen: 2.080 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion:104 Resp: 8979
Ion Ratio Lower Upper
104 100
78 44.3 32.6 60.5





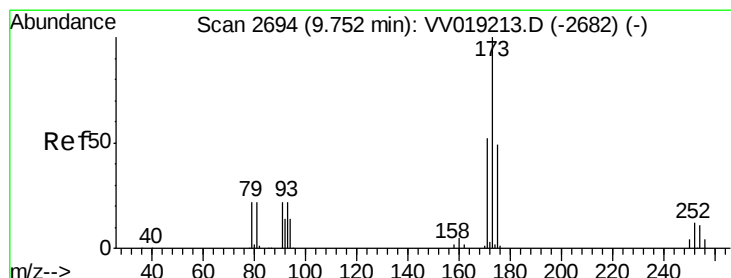
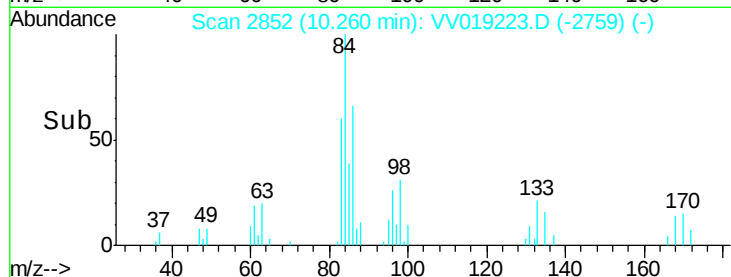
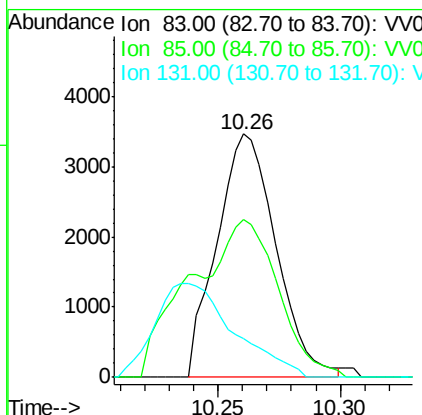
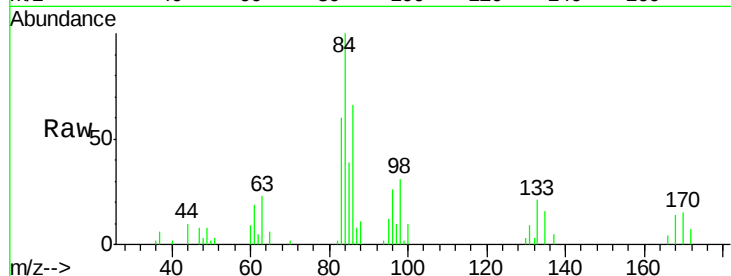
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.646 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. -0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.8	45.0	83.6
131	15.8	8.9	13.3#

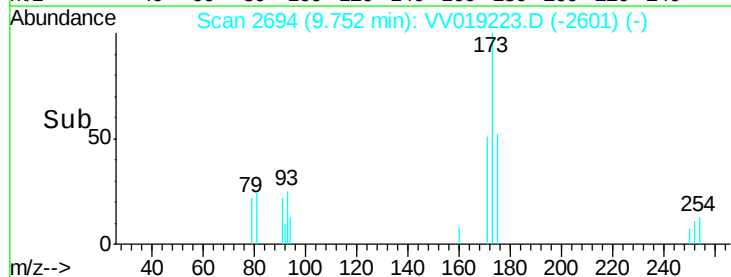
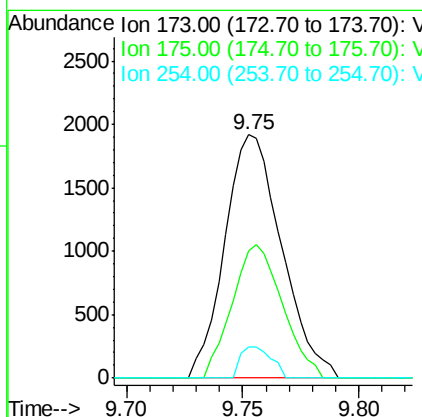
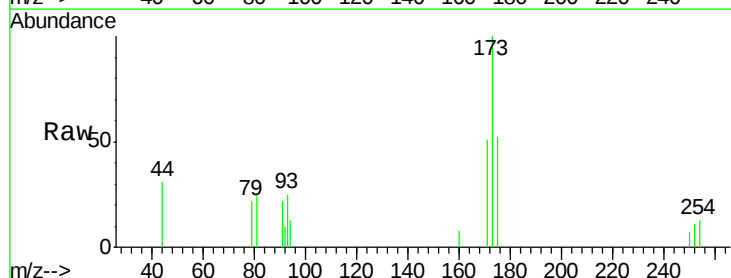
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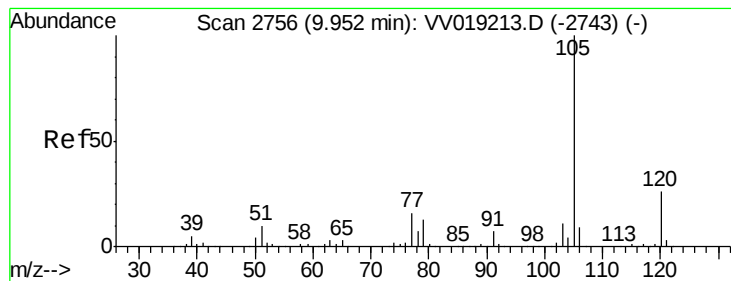
MMDadoda
 11/4/2020 10:45:02 AM



#59
 Bromoform
 Concen: 2.627 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.4	57.6
254	6.9	9.0	13.6#





#60

Isopropylbenzene

Concen: 2.493 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Instrument :

MSVOA_V

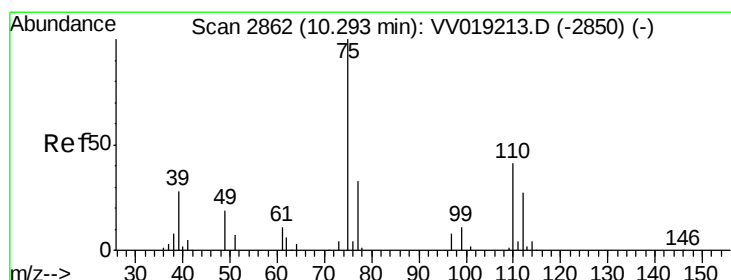
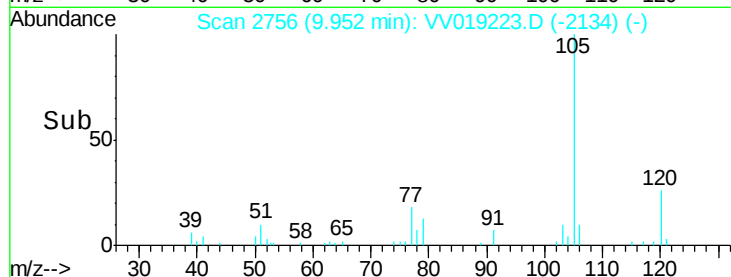
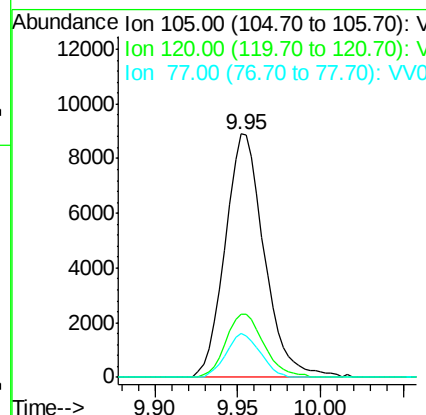
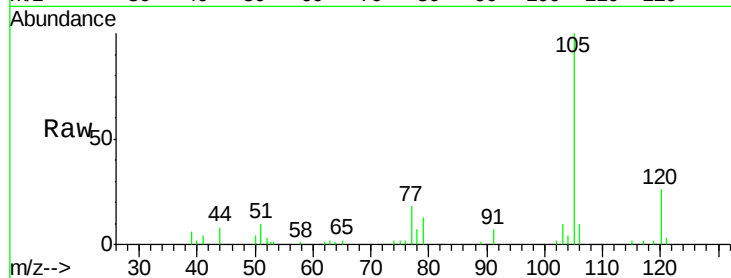
ClientSampleId :

MDL-WATER-01

Tot Ion:	105	Resp:	14627
Ion Ratio	Lower	Upper	
105	100		
120	25.3	21.0	31.4
77	15.5	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.923 ug/L

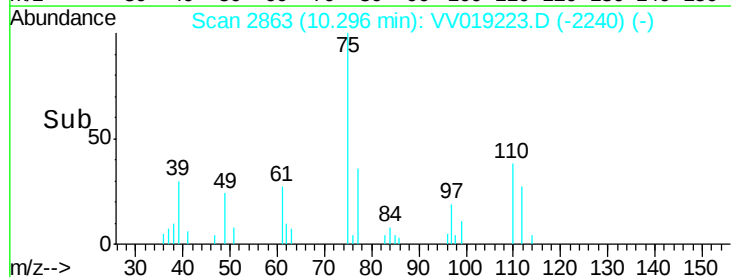
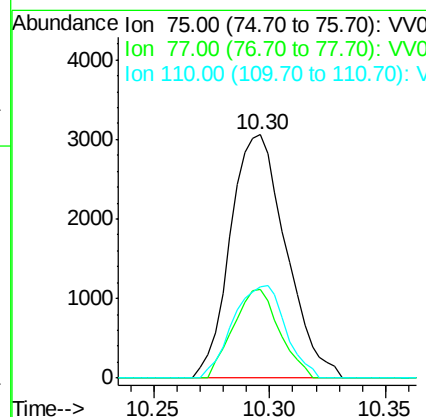
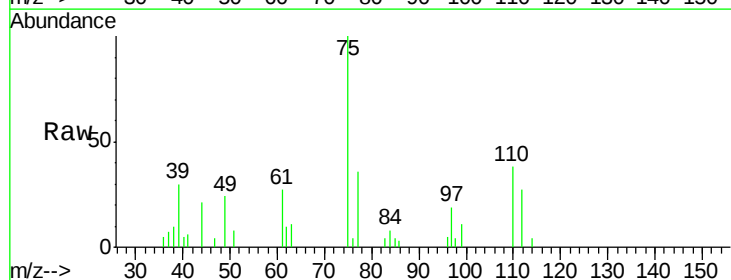
RT: 10.30 min Scan# 2863

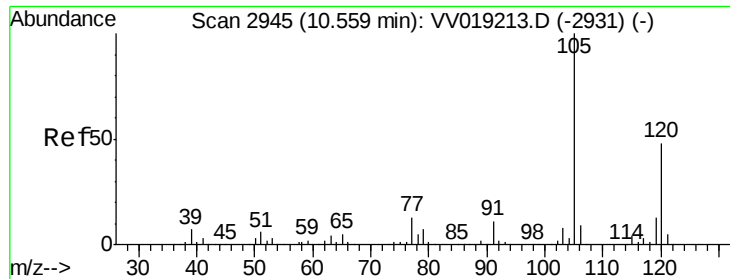
Delta R.T. 0.00 min

Lab File: VV019223.D

Acq: 03 Nov 2020 02:04

Tgt Ion:	75	Resp:	5083
Ion Ratio	Lower	Upper	
75	100		
77	30.2	24.8	37.2
110	36.1	33.4	50.2





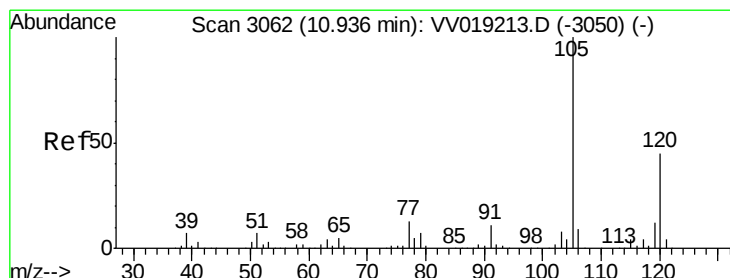
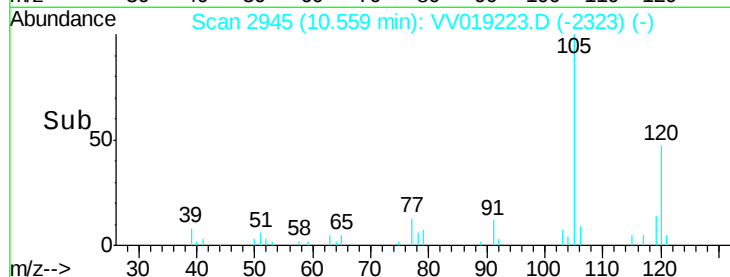
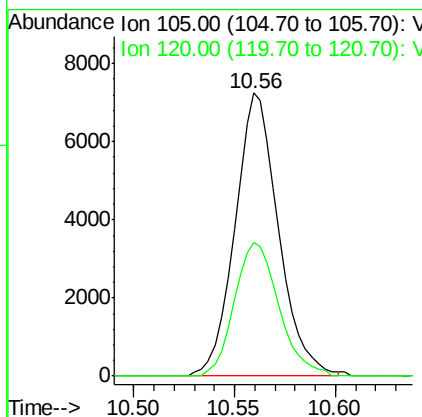
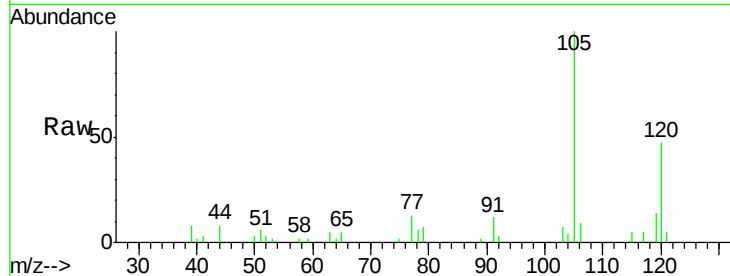
#62
 1,3,5-Trimethylbenzene
 Concen: 2.237 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.3	57.5

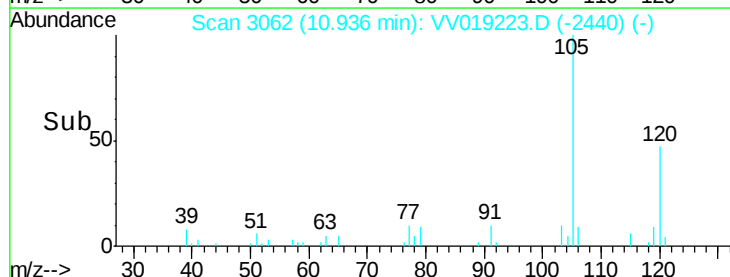
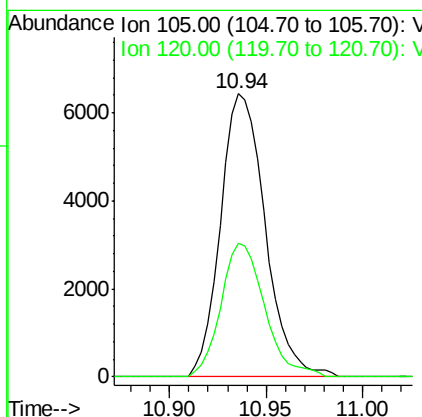
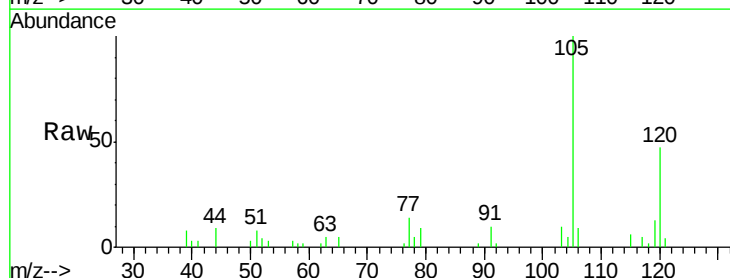
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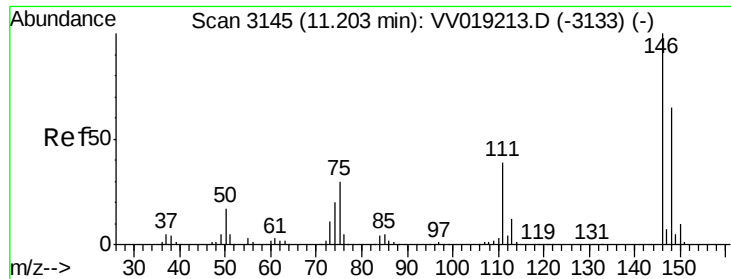
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.164 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	35.7	53.5





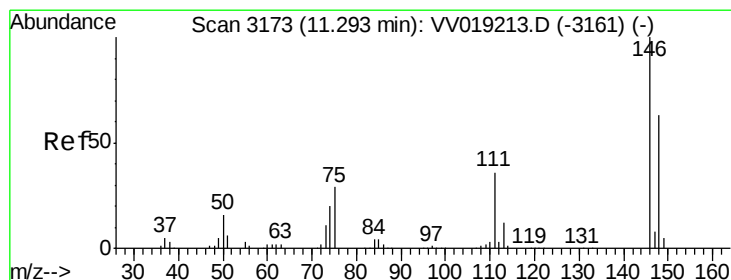
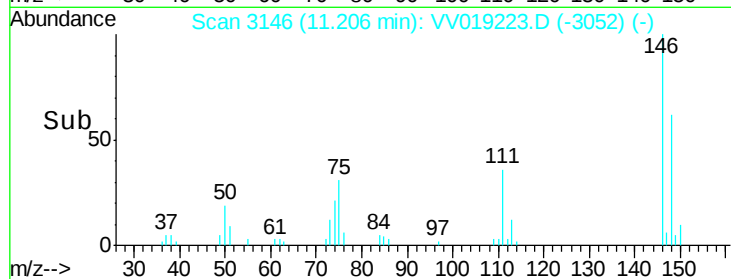
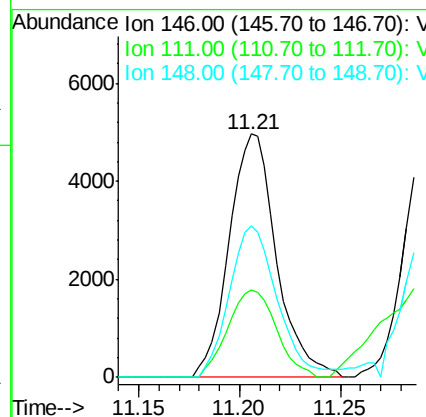
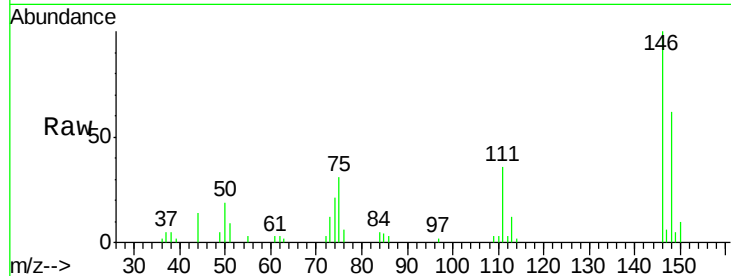
#64
 1,3-Dichlorobenzene
 Concen: 2.654 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.1	27.3	50.7
148	62.5	45.2	84.0

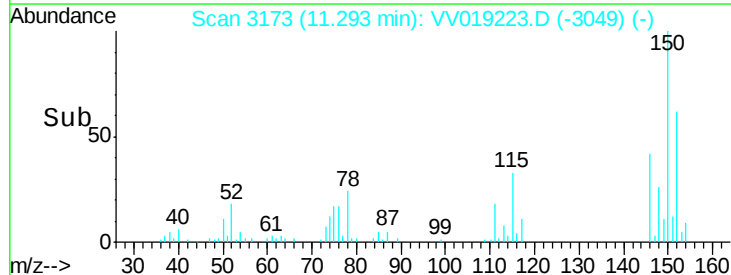
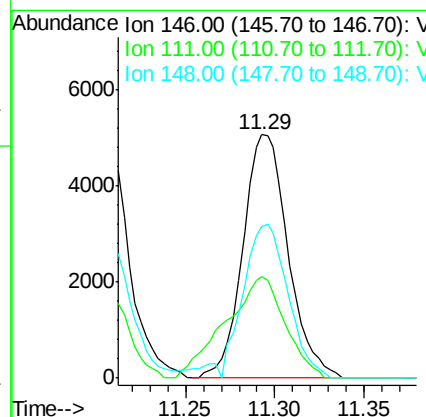
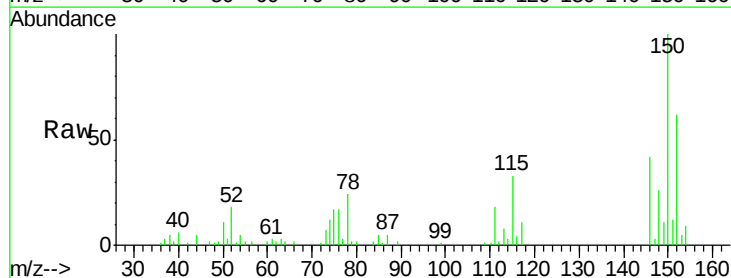
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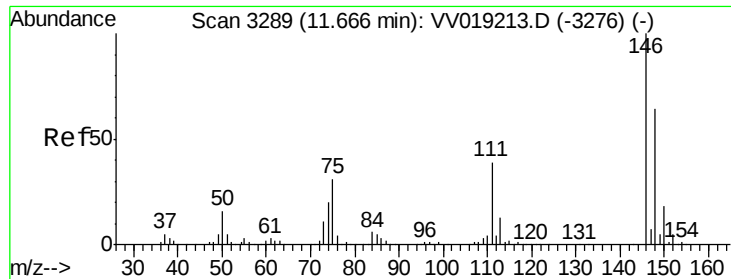
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#65
 1,4-Dichlorobenzene
 Concen: 2.824 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	25.9	48.1
148	62.1	44.9	83.5





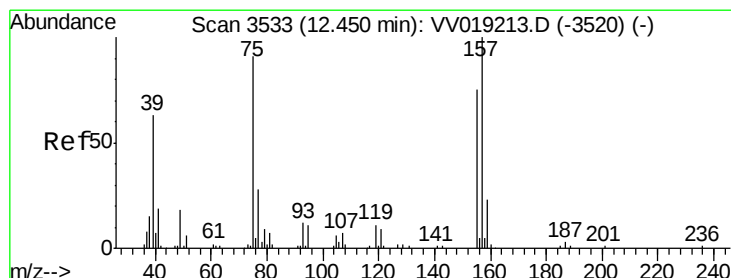
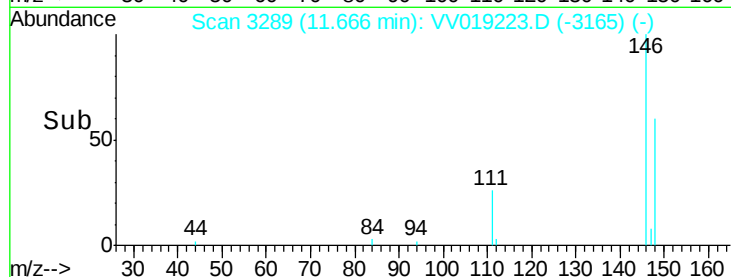
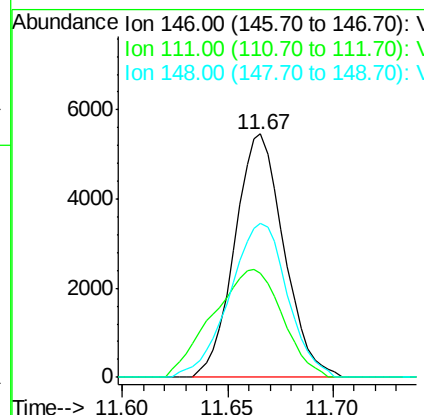
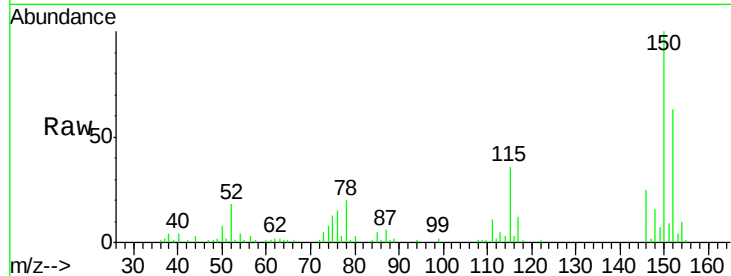
#67
 1,2-Dichlorobenzene
 Concen: 2.812 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	32.6	48.8
148	63.1	50.1	75.1

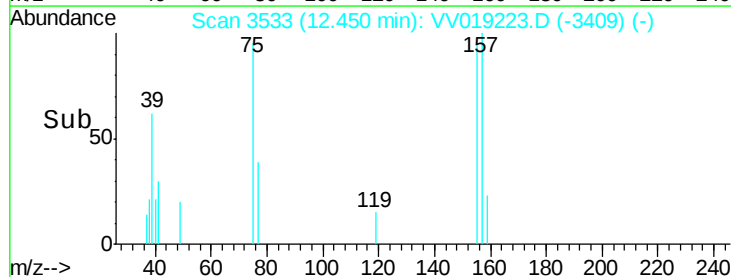
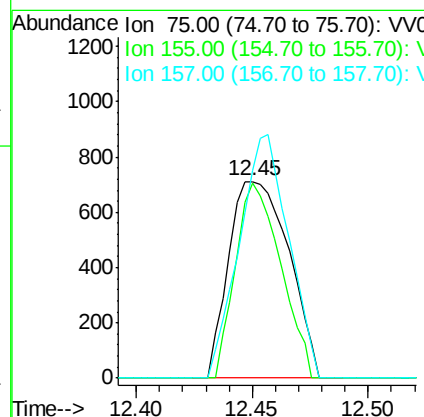
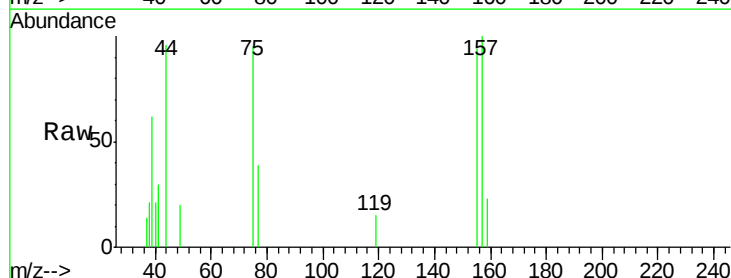
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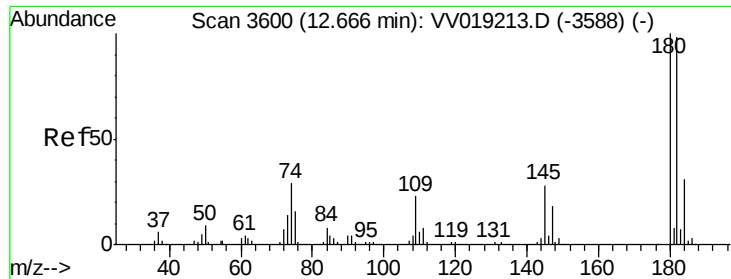
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 11/4/2020 10:45:02 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.523 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.0	65.8	98.6
157	105.5	86.3	129.5





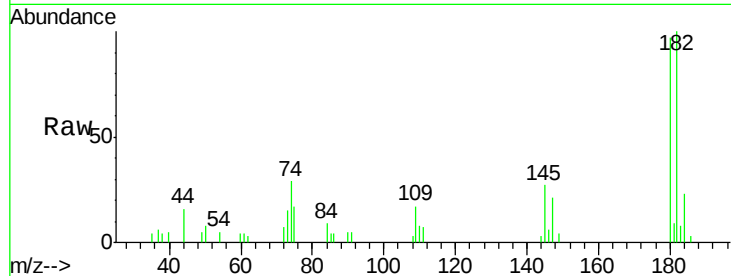
#69
 1,3,5-Trichlorobenzene
 Concen: 2.534 ug/L m
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

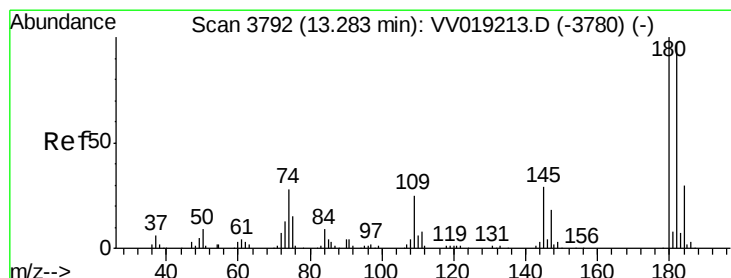
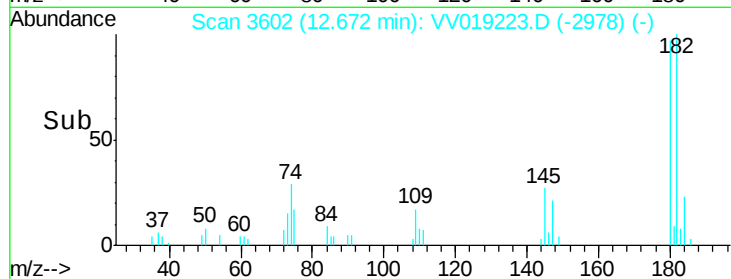
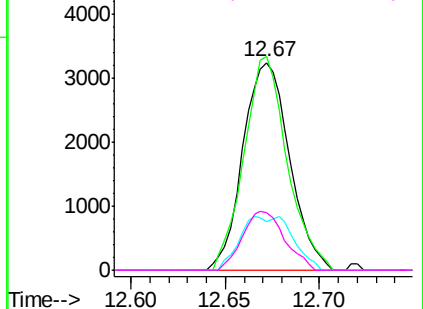
Tot Ion	Ratio	Lower	Upper
180	100		
182	79.0	77.7	116.5
184	27.2	24.9	37.3
145	25.9	23.4	35.0

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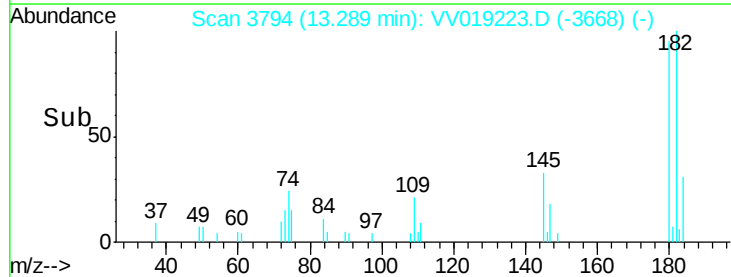
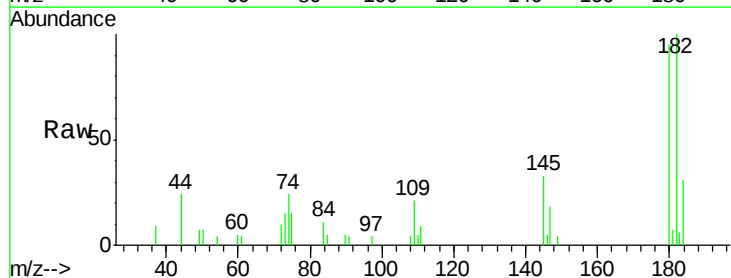
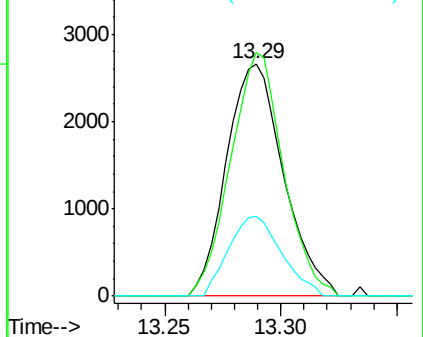
Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

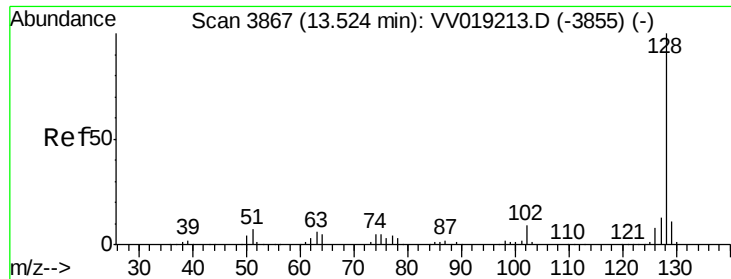


#70
 1,2,4-trichlorobenzene
 Concen: 2.193 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019223.D
 Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.6	114.8
145	31.9	23.2	34.8

Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





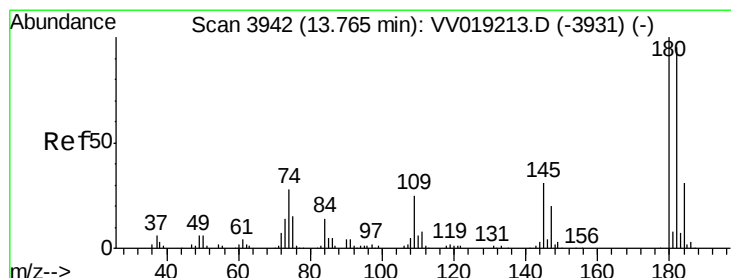
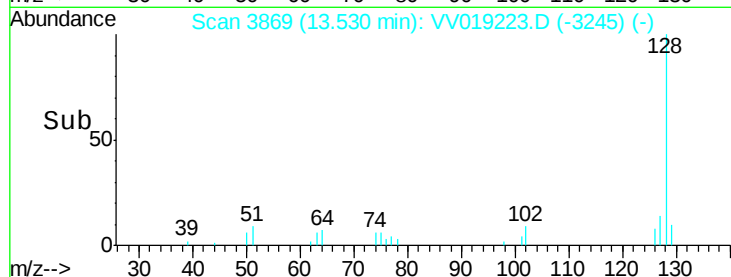
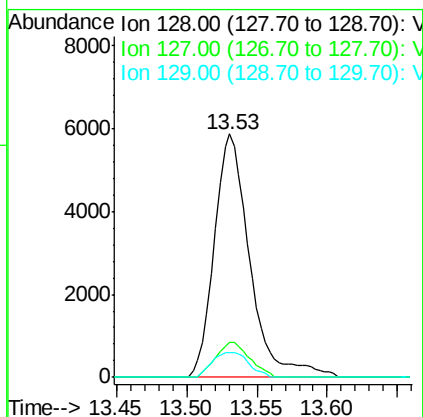
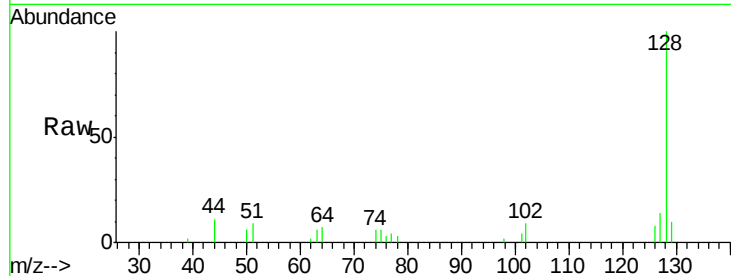
#71
Naphthalene
Concen: 1.757 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.7	16.1
129	10.5	8.6	13.0

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#72
1,2,3-Trichlorobenzene
Concen: 2.190 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019223.D
Acq: 03 Nov 2020 02:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.4	116.0
145	28.0	24.7	37.1

