

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102620\
 Data File : VN064312.D
 Acq On : 26 Oct 2020 19:51
 Operator : JC/MD
 Sample : L4214-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Manual Integrations
 APPROVED

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 10/27/2020 2:21:25 PM

Quant Time: Oct 27 03:14:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 17:44:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	45820	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	257986	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	226705	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128475	31.17	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.90%
60) 4-Bromofluorobenzene	12.38	95	116361	28.69	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.63%
63) Toluene-d8	10.06	98	309793	30.64	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	9734	2.597	ug/l 96
3) Chloromethane	2.04	50	8713	2.488	ug/l 99
4) Vinyl Chloride	2.16	62	8393	2.458	ug/l 95
5) Bromomethane	2.53	94	6344	3.011	ug/l 97
6) Chloroethane	2.67	64	5272	2.765	ug/l 97
7) Trichlorofluoromethane	2.98	101	13879	2.639	ug/l # 84
8) Diethyl Ether	3.38	74	4319	2.563	ug/l 69
9) 1,1,2-Trichlorotrifluoroet	3.71	101	6471m	2.415	ug/l
10) 1,1-Dichloroethene	3.69	96	6259	2.431	ug/l 83
11) Methyl Iodide	3.91	142	7005m	1.900	ug/l
12) Methyl Acetate	4.27	43	8018m	2.601	ug/l
13) Acrolein	3.57	56	3458m	16.983	ug/l
14) Acrylonitrile	4.95	53	16232m	12.105	ug/l
15) Acetone	3.78	58	4684m	12.699	ug/l
16) Carbon Disulfide	4.00	76	18554	2.428	ug/l 100
17) Allyl chloride	4.28	41	12147m	2.485	ug/l
18) Methylene Chloride	4.50	84	7791	2.657	ug/l # 77
19) trans-1,2-Dichloroethene	4.98	96	6412m	2.295	ug/l
20) Diisopropyl ether	5.91	45	23363	2.361	ug/l 96
21) 1,1-Dichloroethane	5.81	63	13390m	2.416	ug/l
22) cis-1,2-Dichloroethene	6.78	96	8524m	2.644	ug/l
23) tert-Butyl Alcohol	4.74	59	8327m	13.644	ug/l
24) Methyl tert-Butyl Ether	4.99	73	23672	2.434	ug/l # 81
25) Chloroform	7.33	83	15019	2.627	ug/l 97
26) Cyclohexane	7.61	56	11395	2.510	ug/l # 96
29) 1,1-Dichloropropene	7.75	75	9925	2.235	ug/l 88
30) 2-Butanone	6.78	43	23183	11.078	ug/l 97
31) 2,2-Dichloropropane	6.78	77	13098m	2.455	ug/l
32) 1,1,1-Trichloroethane	7.53	97	14088	2.534	ug/l # 83
33) Carbon Tetrachloride	7.72	117	12819	2.520	ug/l # 96
34) Benzene	8.00	78	27293	2.290	ug/l # 1
35) Methacrylonitrile	7.13	41	4628m	2.118	ug/l
36) 1,2-Dichloroethane	8.09	62	12982	2.452	ug/l # 97
37) Trichloroethene	8.80	130	8064	2.480	ug/l 91
38) Methylcyclohexane	9.05	83	10097	2.353	ug/l 94
39) 1,2-Dichloropropane	9.09	63	8017	2.491	ug/l 93
40) Dibromomethane	9.17	93	5489	2.458	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	11281	2.339	ug/l #	93
42) Vinyl Acetate	5.85	43	99524m	11.129	ug/l	
43) Ethyl Acetate	6.88	43	8887	2.083	ug/l #	81
44) Isopropyl Acetate	8.13	43	18135	2.314	ug/l	99
45) 1,4-Dioxane	9.16	88	3245	53.682	ug/l #	64
46) Methyl methacrylate	9.17	41	9896m	2.587	ug/l	
47) n-amyl Acetate	12.05	43	13855	2.100	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	11367m	2.089	ug/l	
49) cis-1,3-Dichloropropene	9.81	75	12032	2.170	ug/l	93
50) 1,1,2-Trichloroethane	10.53	97	7268	2.424	ug/l #	91
51) Ethyl methacrylate	10.40	69	9794	2.092	ug/l	91
52) 1,3-Dichloropropane	10.68	76	12341	2.344	ug/l	94
53) Dibromochloromethane	10.87	129	8446	2.306	ug/l	97
54) 1,2-Dibromoethane	10.97	107	7547	2.356	ug/l	95
55) 2-Chloroethyl vinyl ether	9.66	63	27248	11.692	ug/l	99
56) Bromoform	12.10	173	4922	1.875	ug/l #	82
58) 4-Methyl-2-Pentanone	9.95	43	51112	12.186	ug/l	98
59) 2-Hexanone	10.72	43	37210	11.873	ug/l	97
61) Tetrachloroethene	10.60	164	7883	2.607	ug/l	92
62) Toluene	10.12	91	31670	2.536	ug/l	98
64) Chlorobenzene	11.41	112	18936	2.432	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	6888	2.240	ug/l	73
66) Ethyl Benzene	11.48	91	33712	2.362	ug/l	100
67) m/p-Xylenes	11.59	106	25607	4.886	ug/l	93
68) o-Xylene	11.92	106	11591	2.249	ug/l	99
69) Styrene	11.94	104	17141	1.995	ug/l	89
70) Isopropylbenzene	12.23	105	30787	2.253	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	9289	2.385	ug/l	94
72) 1,2,3-Trichloropropane	12.52	75	10356m	2.497	ug/l	
73) Bromobenzene	12.50	156	7999	2.387	ug/l	84
74) n-propylbenzene	12.57	91	34628	2.223	ug/l	98
75) 2-Chlorotoluene	12.65	91	22847	2.372	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	26290	2.275	ug/l	95
77) t-1,4-Dichloro-2-butene	12.28	75	3431	2.216	ug/l	84
78) 4-Chlorotoluene	12.75	91	22026	2.185	ug/l	93
79) tert-butylbenzene	12.97	119	20499	2.152	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	26222	2.249	ug/l	91
81) sec-Butylbenzene	13.15	105	27174	2.198	ug/l	97
82) p-Isopropyltoluene	13.26	119	23561	2.081	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	12162	2.090	ug/l	95
84) 1,4-Dichlorobenzene	13.34	146	12412	2.124	ug/l	95
85) n-Butylbenzene	13.59	91	20011	2.026	ug/l	98
86) Hexachloroethane	13.84	117	4714	2.232	ug/l	70
87) 1,2-Dichlorobenzene	13.63	146	12127	2.116	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.24	75	2311	2.348	ug/l #	69
89) 1,2,4-Trichlorobenzene	14.88	180	5956	1.834	ug/l	97
90) Hexachlorobutadiene	14.98	225	3758	2.150	ug/l	78
91) Naphthalene	15.10	128	16135	1.646	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	5790	1.846	ug/l	89

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MDL-WATER-03-QT4-2020

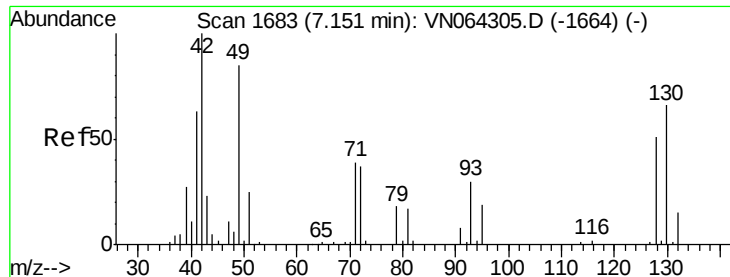
Manual Integrations
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QLast Update : Mon Oct 26 17:44:53 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

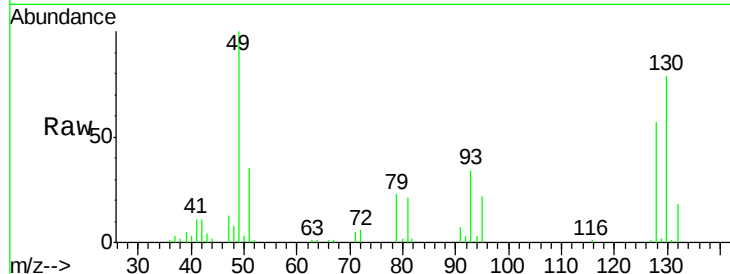
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
128	100		
49	175.0	0.0	439.5
130	126.3	0.0	323.8

Manual Integrations
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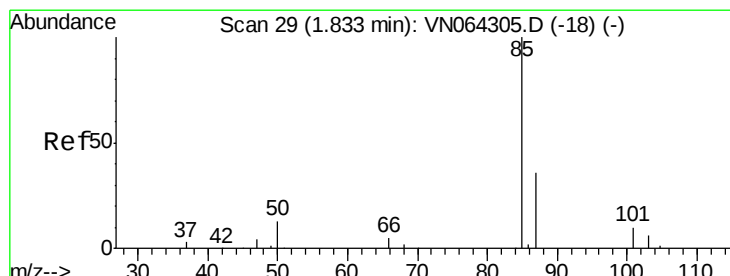
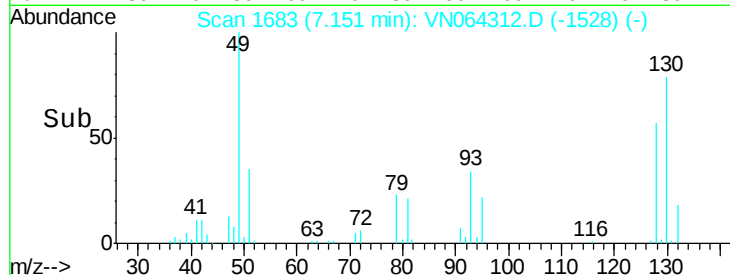
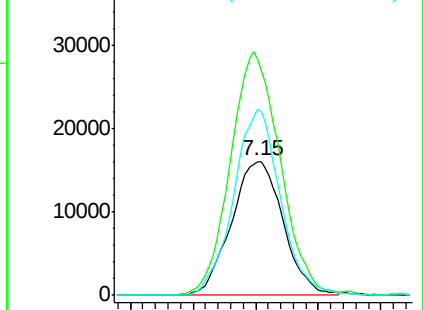
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.597 ug/l

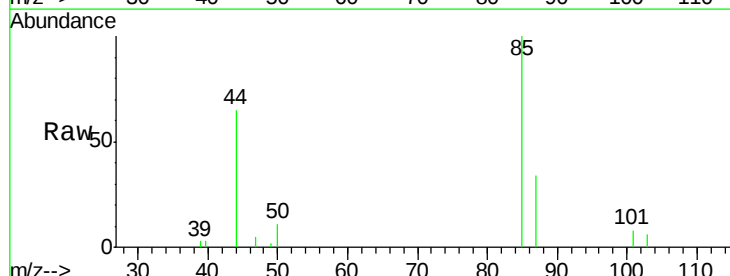
RT: 1.83 min Scan# 29

Delta R.T. -0.00 min

Lab File: VN064312.D

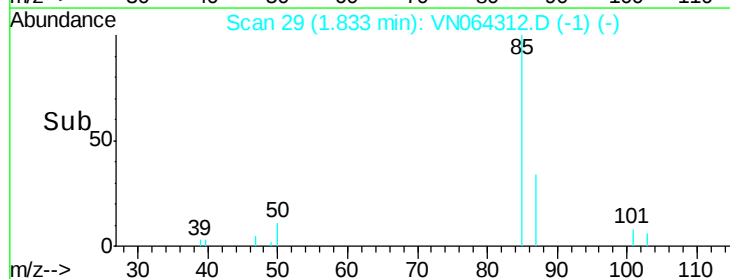
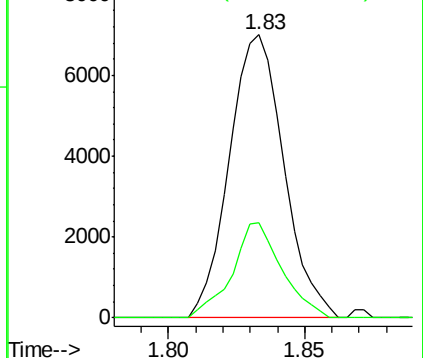
Acq: 26 Oct 2020 19:51

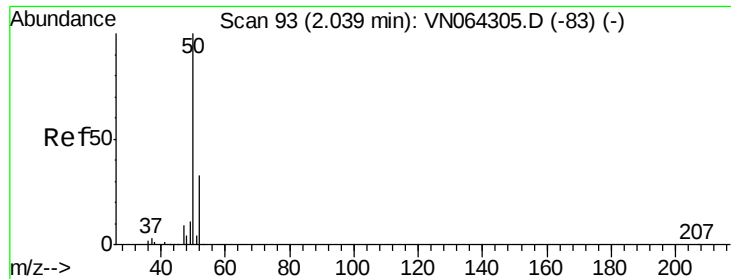
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.8	18.1	54.4



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





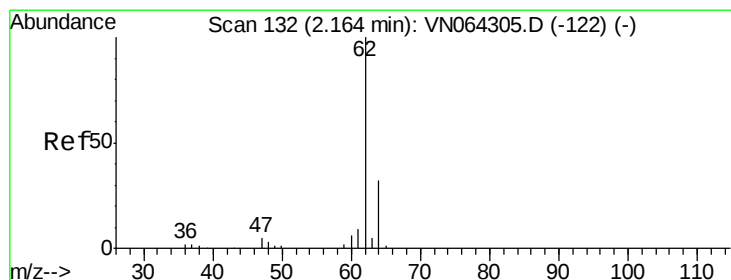
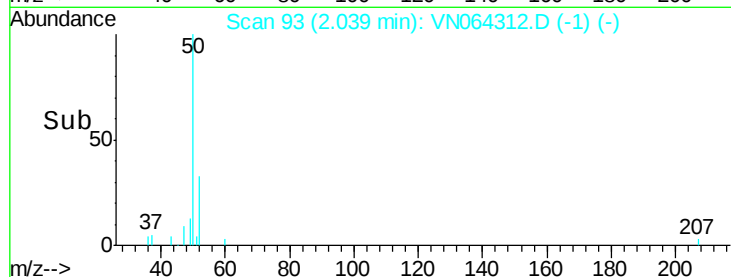
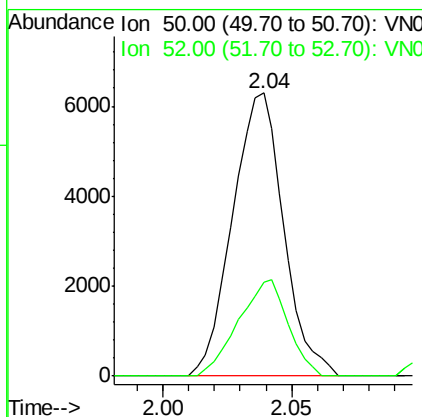
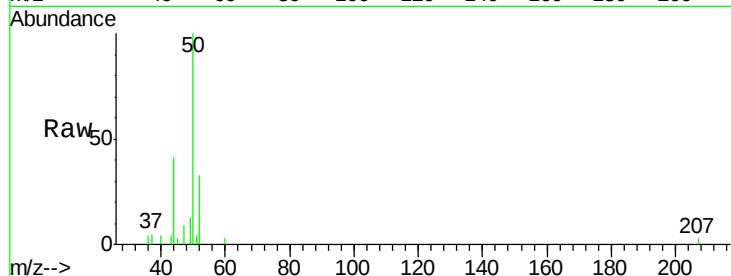
#3
Chloromethane
Concen: 2.488 ug/l
RT: 2.04 min Scan# 93
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 50 Resp: 8713
Ion Ratio Lower Upper
50 100
52 33.2 26.2 39.2

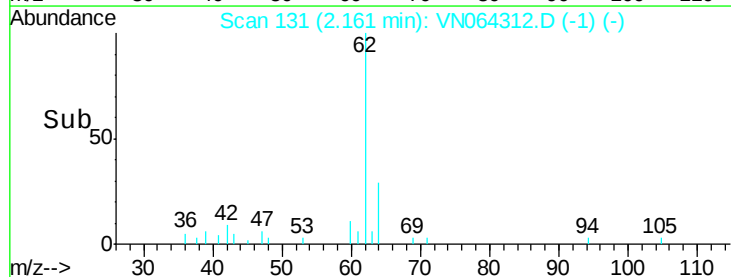
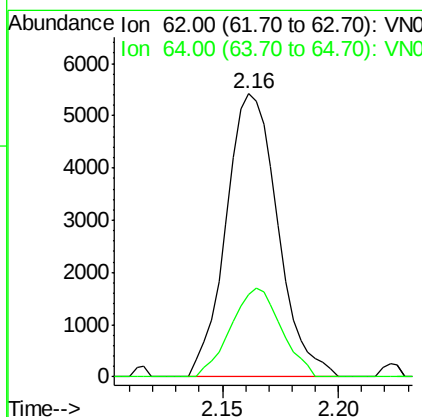
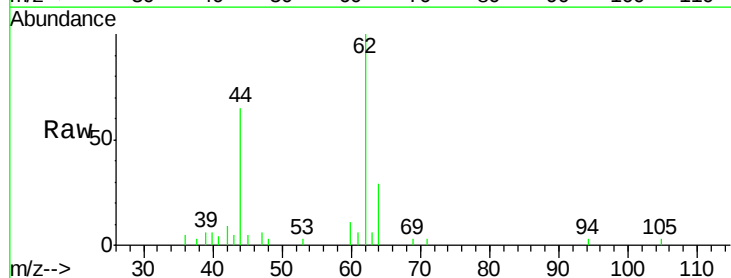
Manual Integrations
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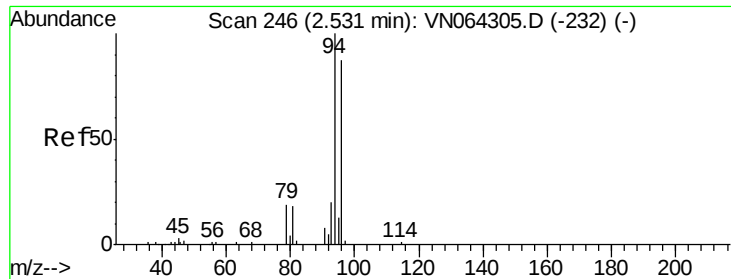
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#4
Vinyl Chloride
Concen: 2.458 ug/l
RT: 2.16 min Scan# 131
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 62 Resp: 8393
Ion Ratio Lower Upper
62 100
64 29.2 25.5 38.3





#5

Bromomethane

Concen: 3.011 ug/l

RT: 2.53 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion: 94 Resp: 6344

Ion Ratio Lower Upper

94 100

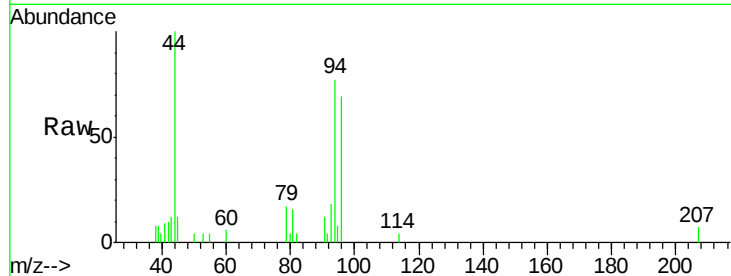
96 89.9 69.4 104.0

Manual Integrations

APPROVED

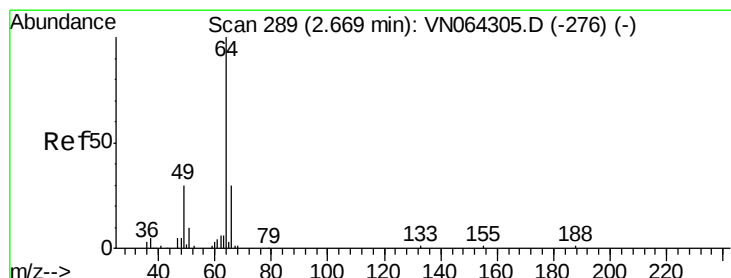
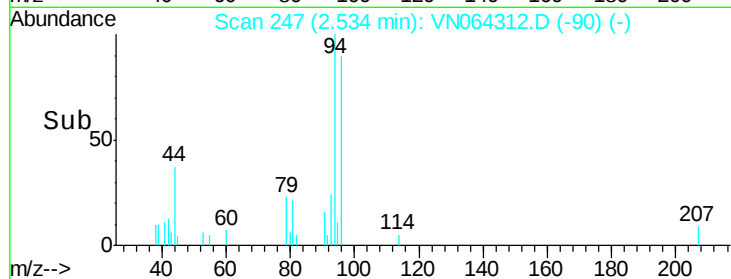
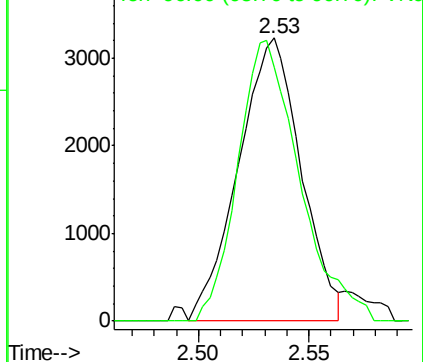
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.765 ug/l

RT: 2.67 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN064312.D

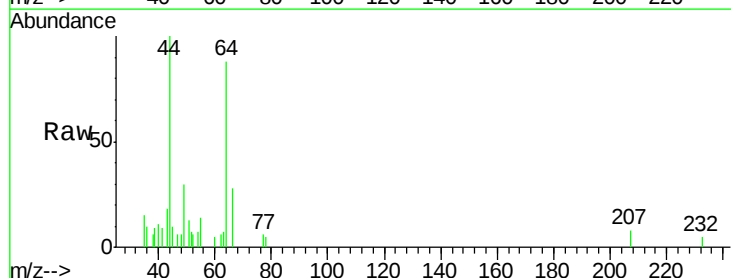
Acq: 26 Oct 2020 19:51

Tgt Ion: 64 Resp: 5272

Ion Ratio Lower Upper

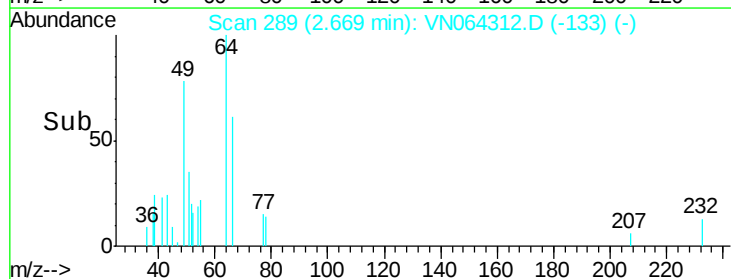
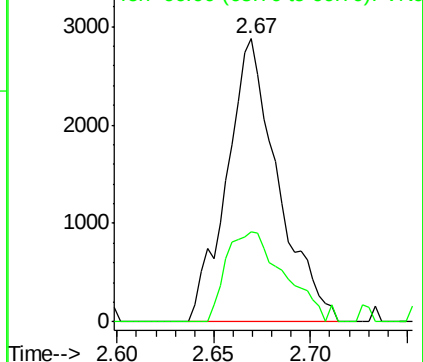
64 100

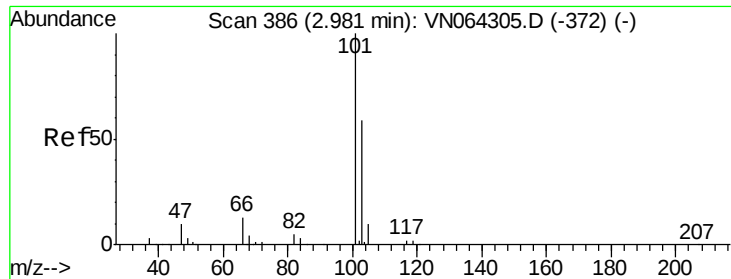
66 32.0 24.1 36.1



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

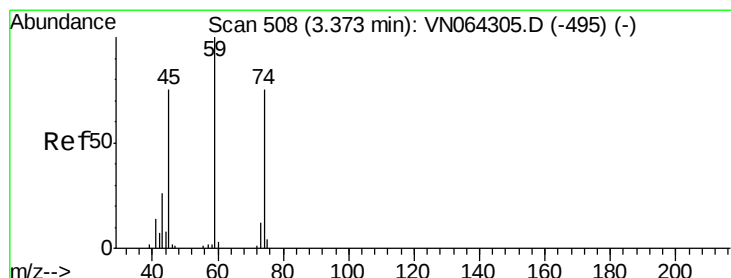
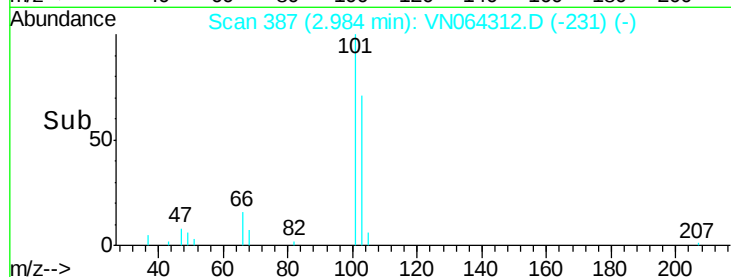
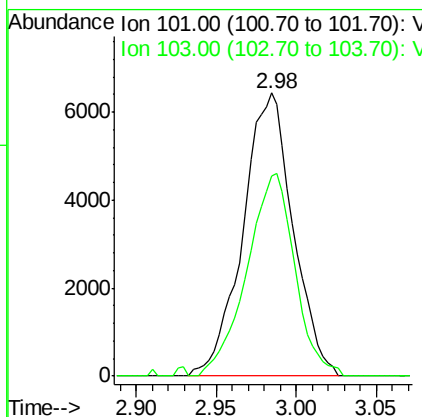
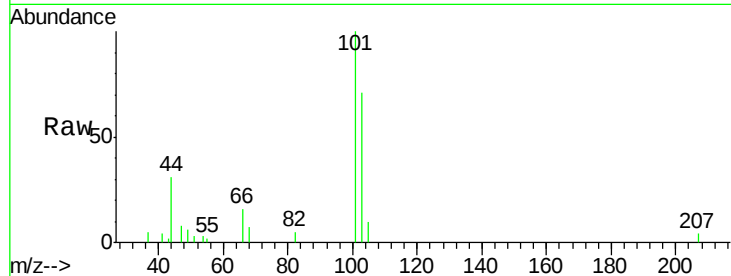
Trichlorofluoromethane
 Concen: 2.639 ug/l
 RT: 2.98 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	70.8	47.1	70.7#

Manual Integrations
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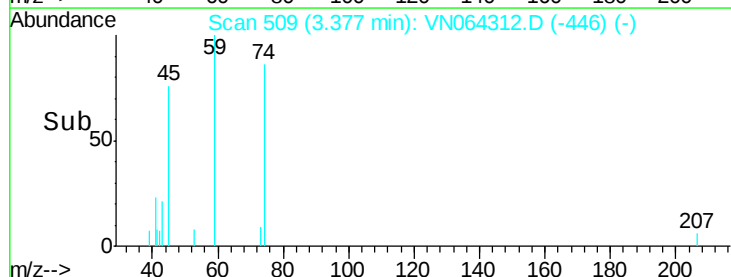
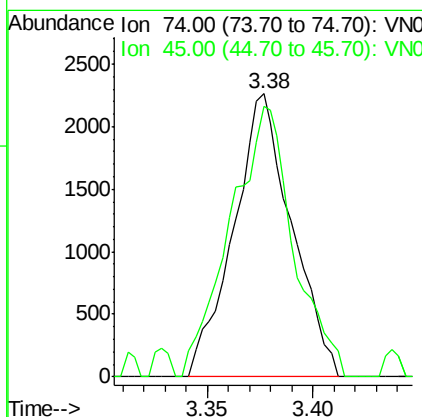
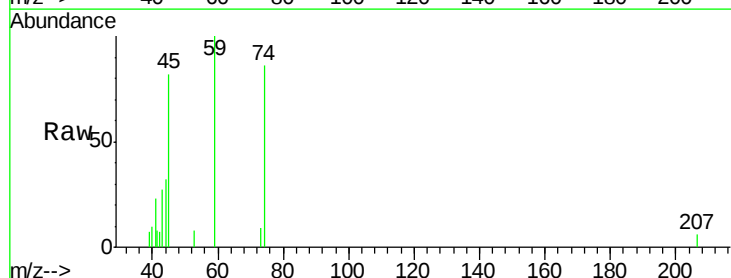
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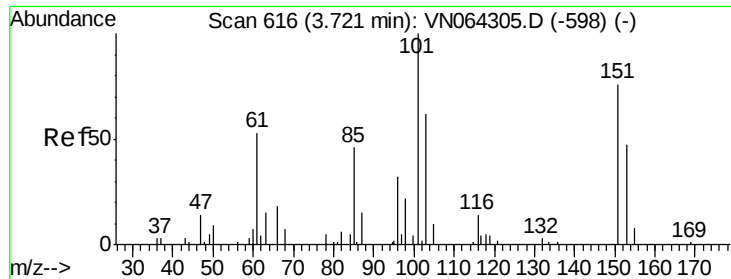


#8

Diethyl Ether
 Concen: 2.563 ug/l
 RT: 3.38 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	70.4	20.4	183.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.415 ug/l m

RT: 3.71 min Scan# 612

Delta R.T. -0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

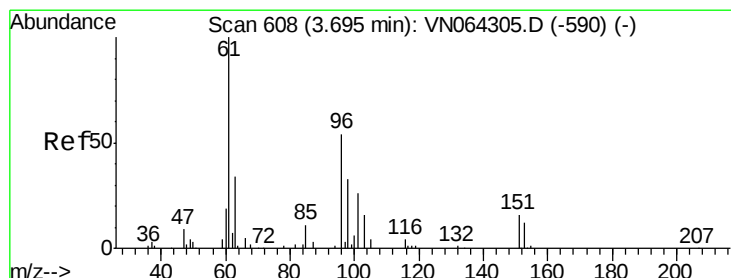
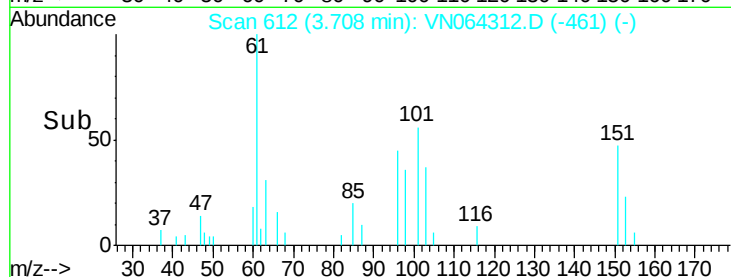
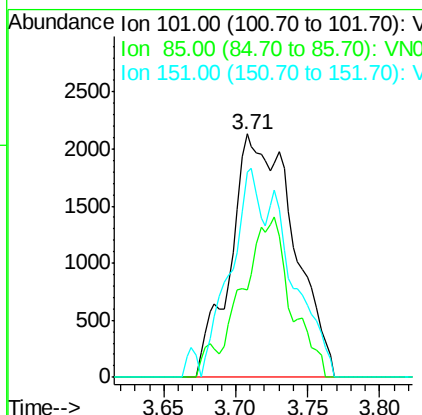
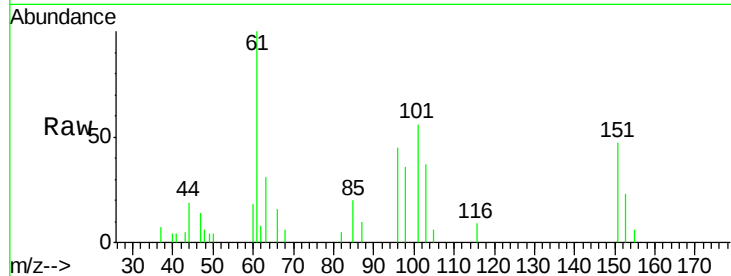
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	101	Resp:	6471
Ion Ratio	Lower	Upper	
101	100		
85	8.1	0.0	96.2
151	44.5	0.0	154.4

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 2.431 ug/l

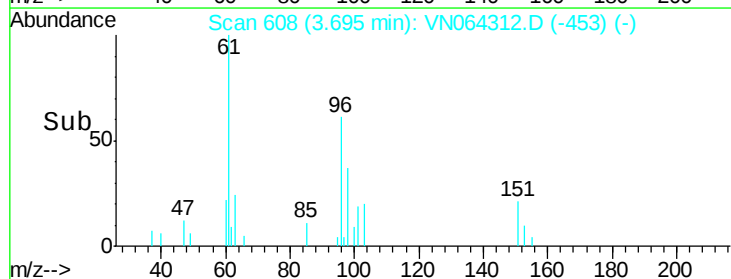
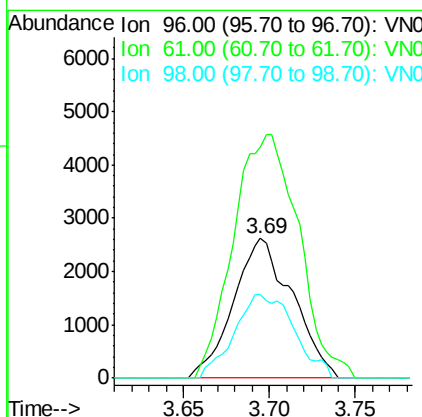
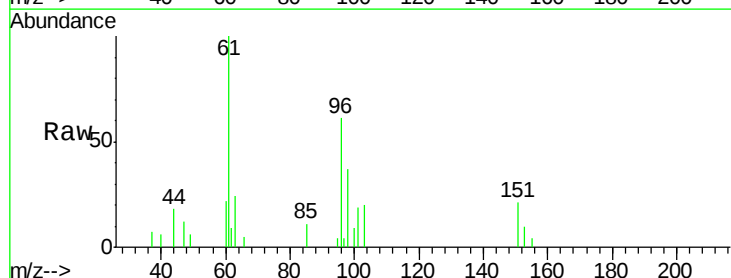
RT: 3.69 min Scan# 608

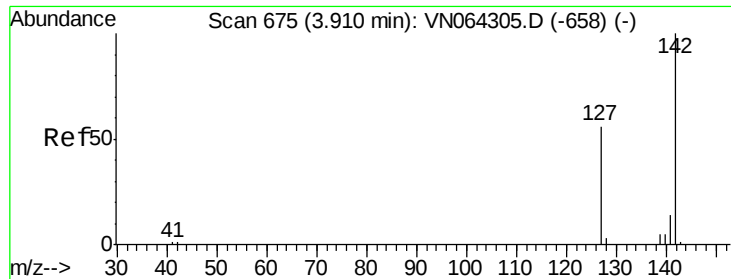
Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	96	Resp:	6259
Ion Ratio	Lower	Upper	
96	100		
61	154.9	147.4	221.2
98	56.6	48.8	73.2





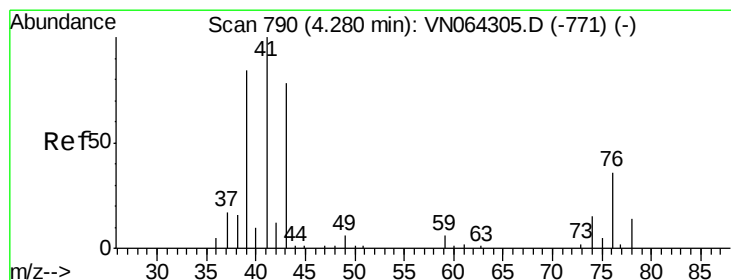
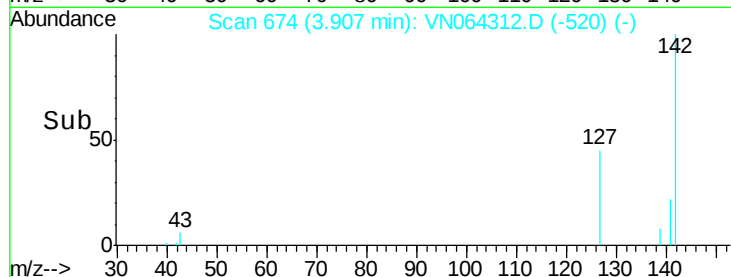
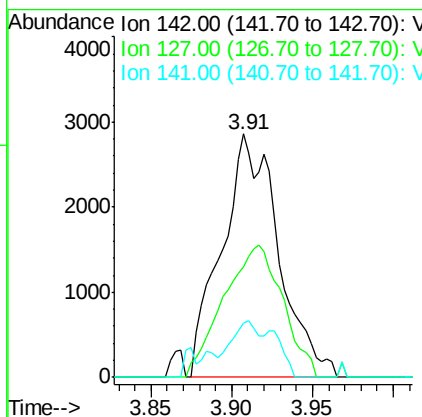
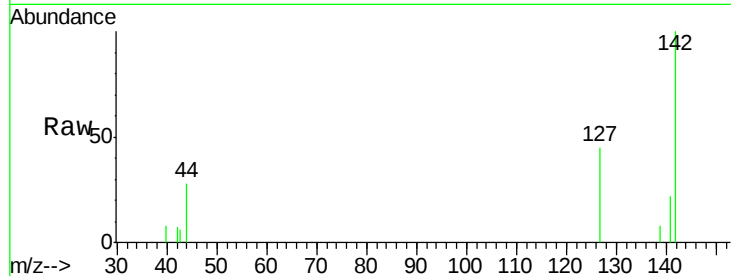
#11
Methvl Iodide
Concen: 1.900 ug/l m
RT: 3.91 min Scan# 674
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion:142 Resp: 7005
Ion Ratio Lower Upper
142 100
127 45.4 27.9 83.7
141 22.2 7.1 21.3#

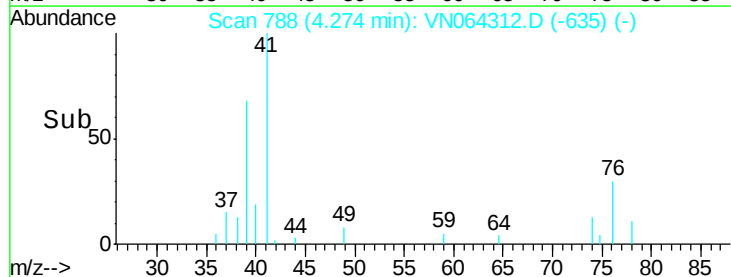
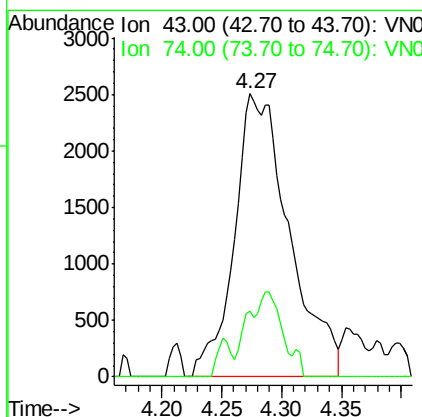
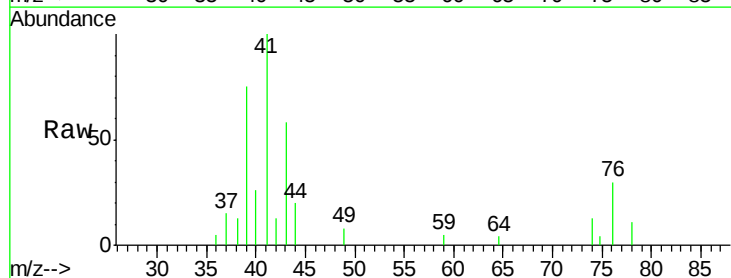
Manual Integrations
APPROVED

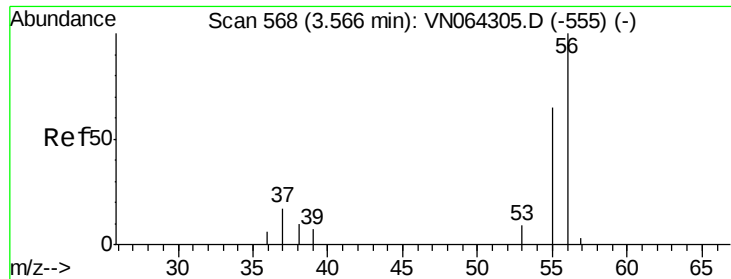
MMDadoda
10/27/2020 2:21:25 PM



#12
Methyl Acetate
Concen: 2.601 ug/l m
RT: 4.27 min Scan# 788
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 43 Resp: 8018
Ion Ratio Lower Upper
43 100
74 23.1 15.4 23.0#





#13

Acrolein

Concen: 16.983 ug/l m

RT: 3.57 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion: 56 Resp: 3458

Ion Ratio Lower Upper

56 100

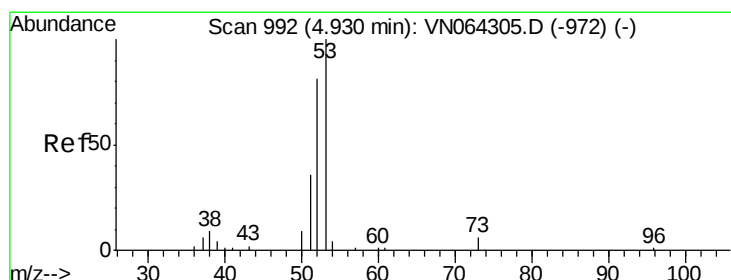
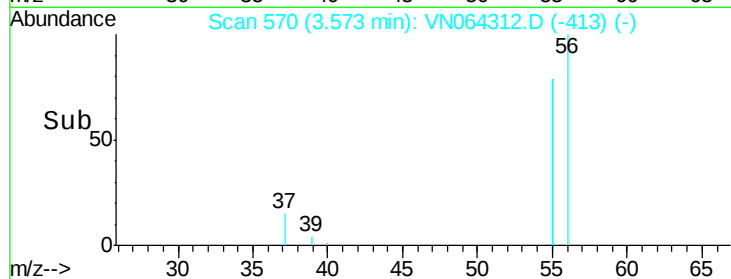
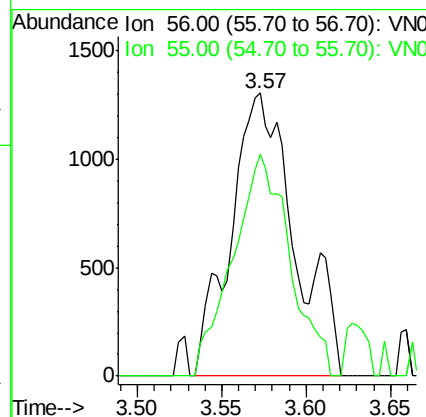
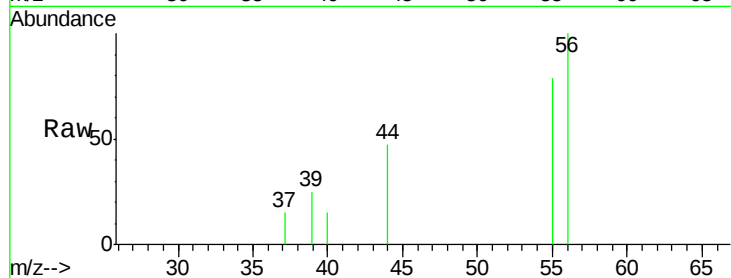
55 50.7 55.5 83.3#

Manual Integrations

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MMDadoda

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#14

Acrylonitrile

Concen: 12.105 ug/l m

RT: 4.95 min Scan# 997

Delta R.T. 0.02 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

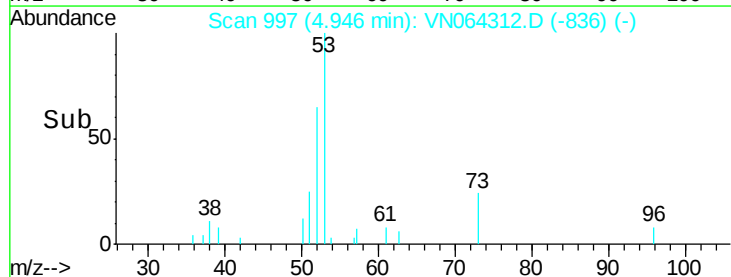
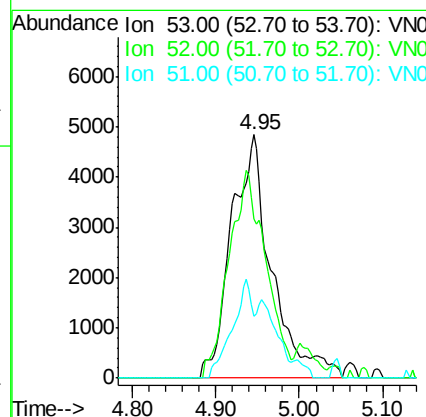
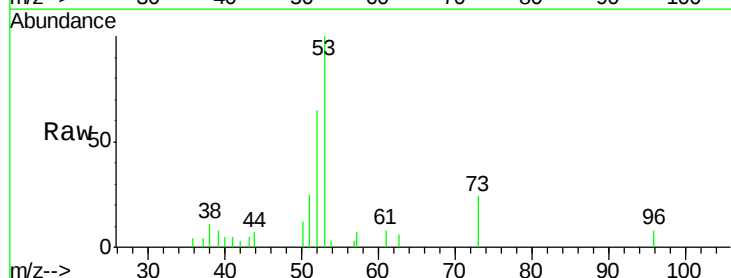
Tgt Ion: 53 Resp: 16232

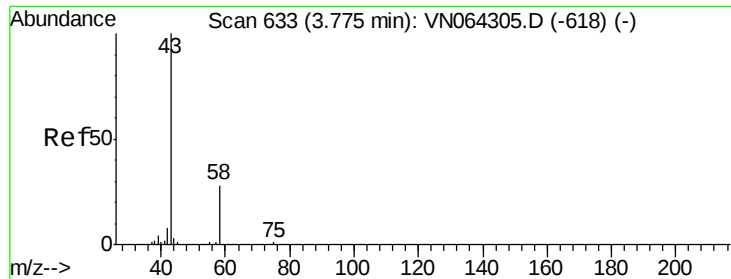
Ion Ratio Lower Upper

53 100

52 54.6 41.7 125.1

51 20.2 19.4 58.2





#15

Acetone

Concen: 12.699 ug/l m

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion: 58 Resp: 4684

Ion Ratio Lower Upper

58 100

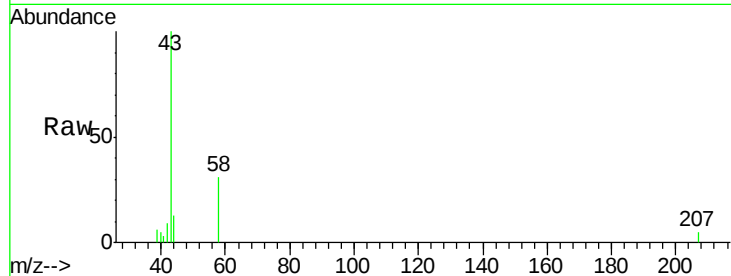
43 326.4 289.9 434.9

Manual Integrations

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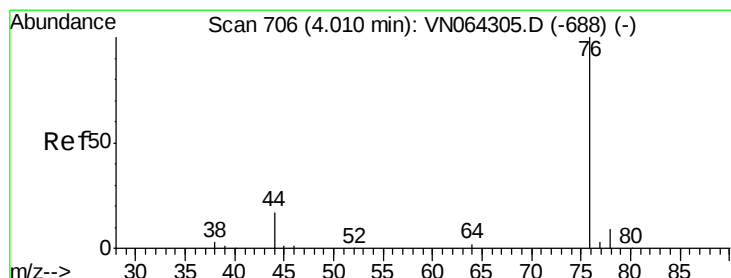
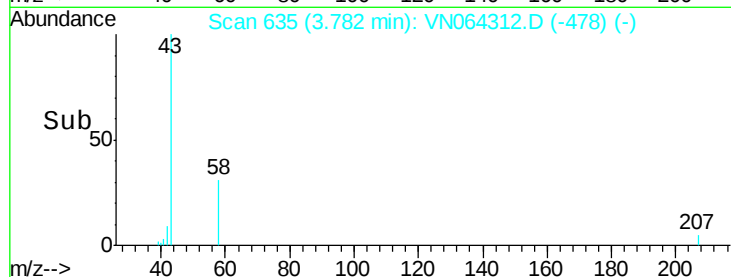
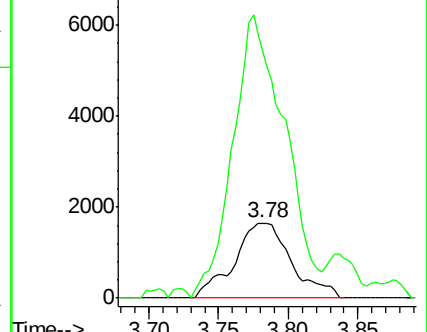
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Abundance Ion 58.00 (57.70 to 58.70): VN064312.D (-478) (-)

Ion 43.00 (42.70 to 43.70): VN064312.D (-478) (-)



#16

Carbon Disulfide

Concen: 2.428 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN064312.D

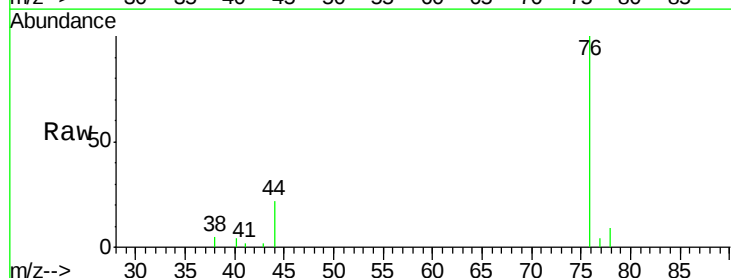
Acq: 26 Oct 2020 19:51

Tgt Ion: 76 Resp: 18554

Ion Ratio Lower Upper

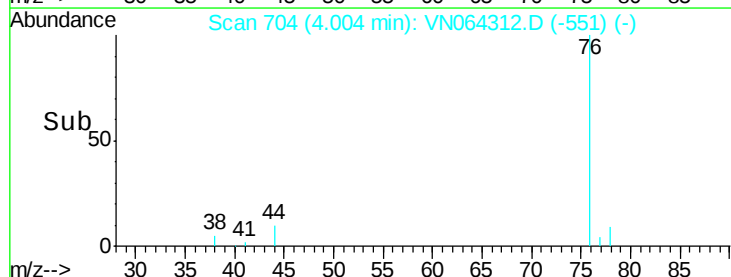
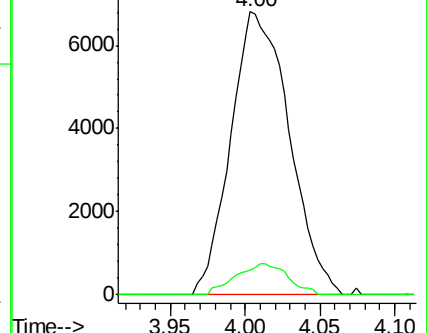
76 100

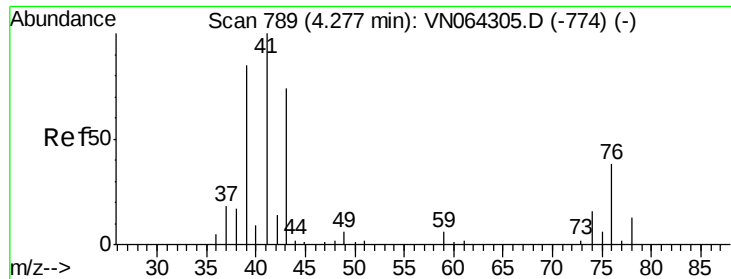
78 8.7 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VN064312.D (-551) (-)

Ion 78.00 (77.70 to 78.70): VN064312.D (-551) (-)





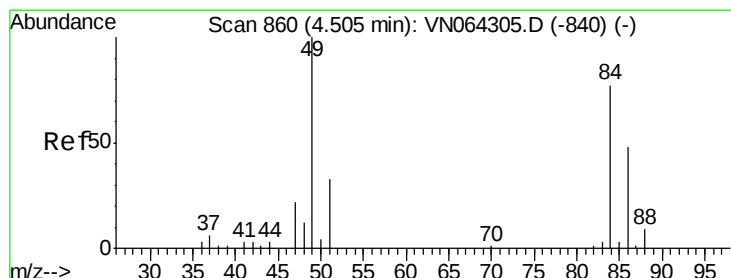
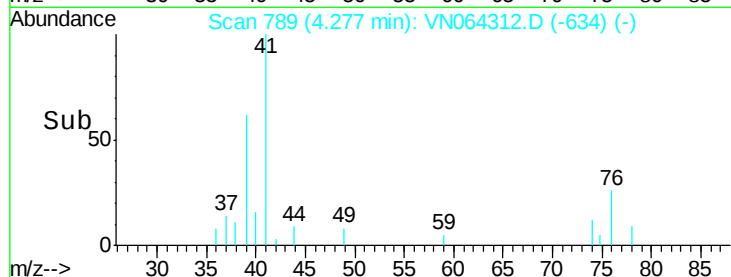
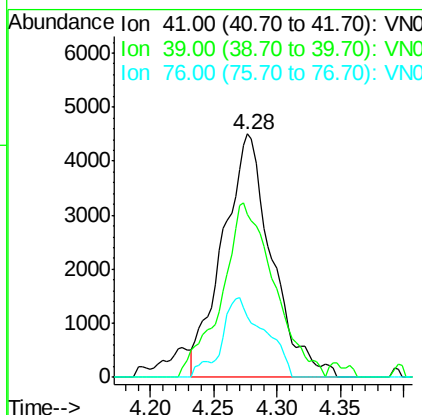
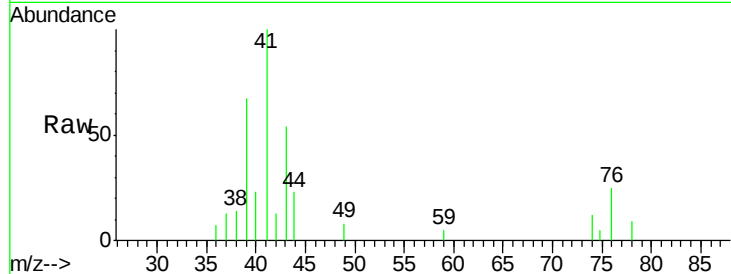
#17
Allvl chloride
Concen: 2.485 ug/l m
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.0	40.3	120.9
76	24.8	17.6	52.9

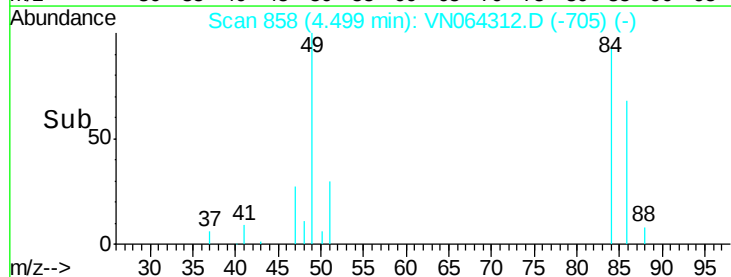
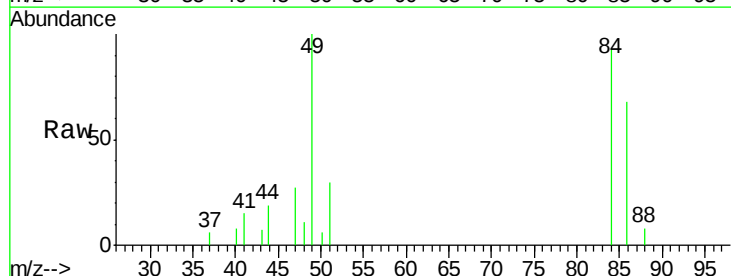
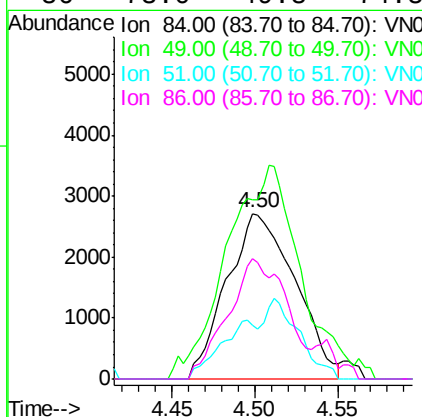
Manual Integrations
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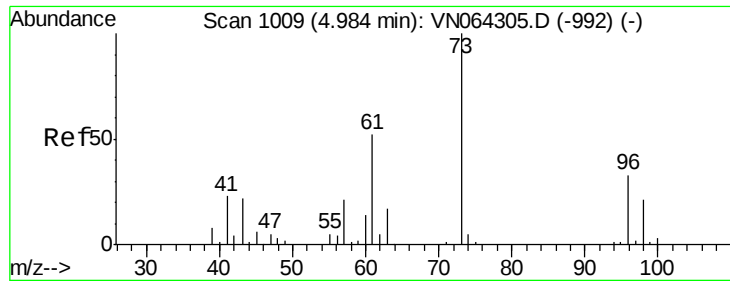
MMDadoda
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#18
Methylene Chloride
Concen: 2.657 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	94.3	103.1	154.7#
51	32.3	33.8	50.8#
86	73.0	49.8	74.8





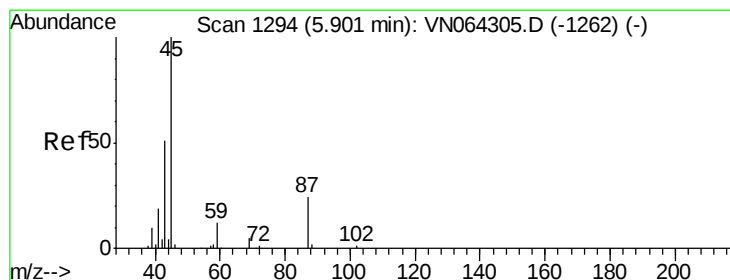
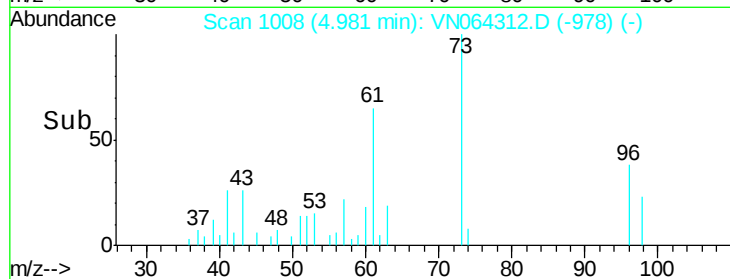
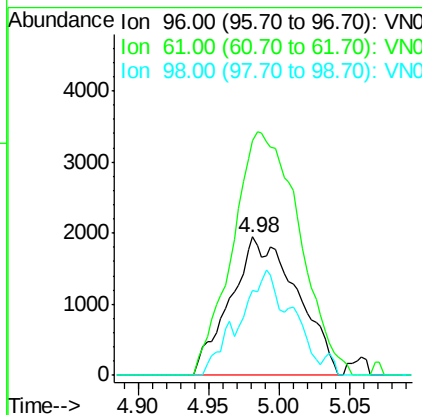
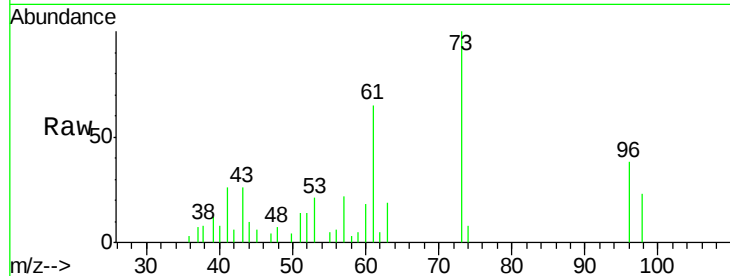
#19
trans-1,2-Dichloroethene
Concen: 2.295 ug/l m
RT: 4.98 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	169.4	126.9	190.3
98	61.2	50.6	76.0

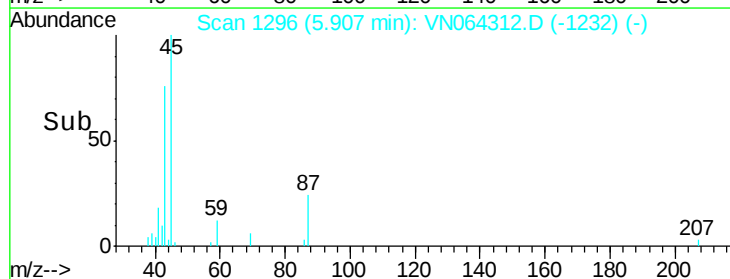
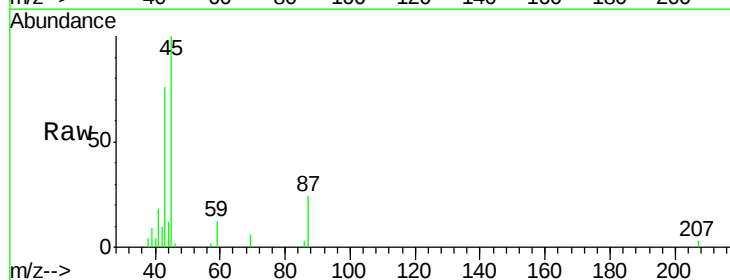
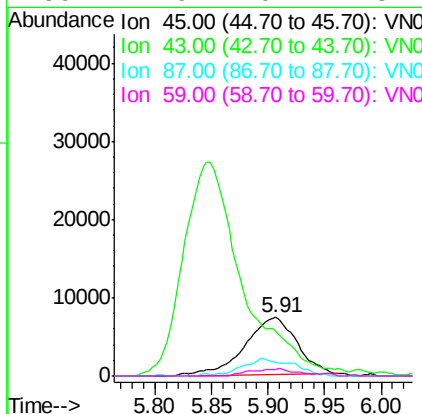
Manual Integrations
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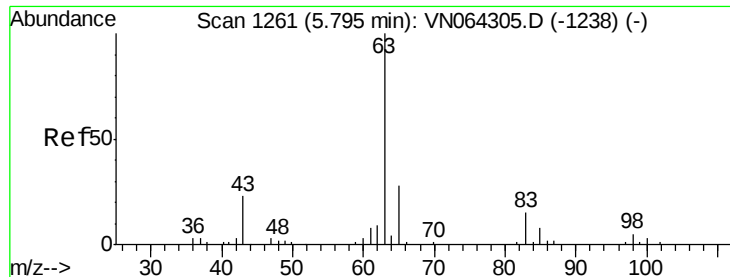
MMDadoda
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#20
Diisopropyl ether
Concen: 2.361 ug/l
RT: 5.91 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.4	56.6	85.0
87	24.5	20.3	30.5
59	11.9	10.1	15.1





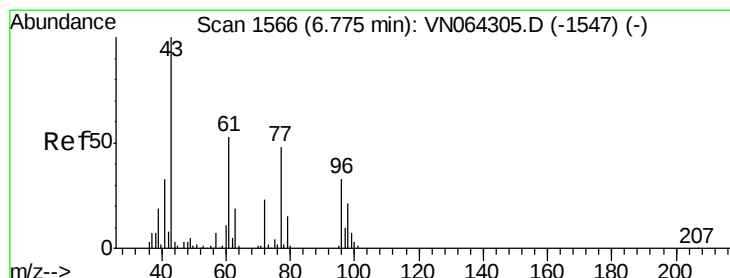
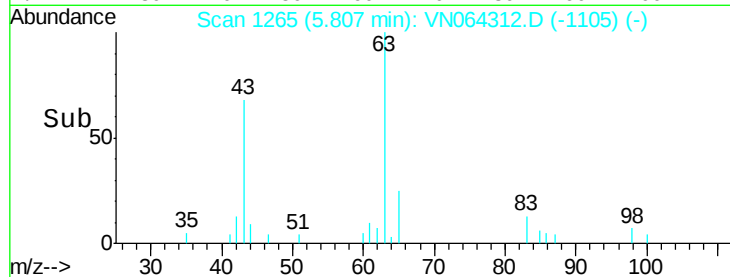
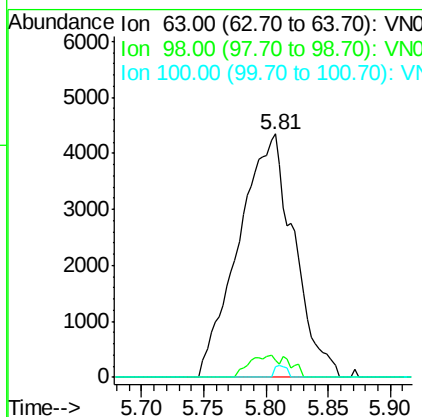
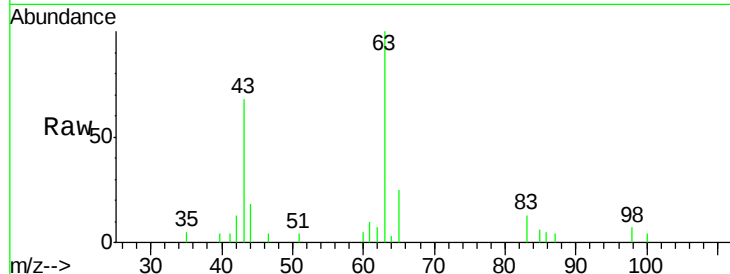
#21
 1,1-Dichloroethane
 Concen: 2.416 ug/l m
 RT: 5.81 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
63	100	13390		
98	6.9		2.6	8.0
100	4.3		1.6	4.8

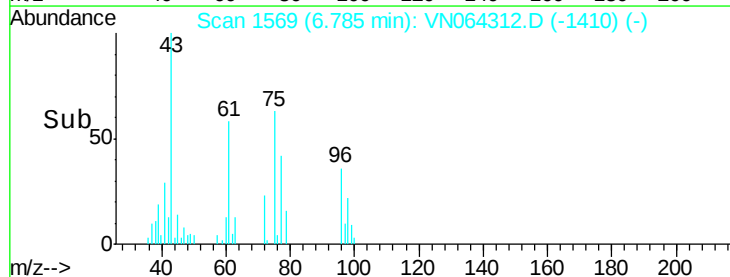
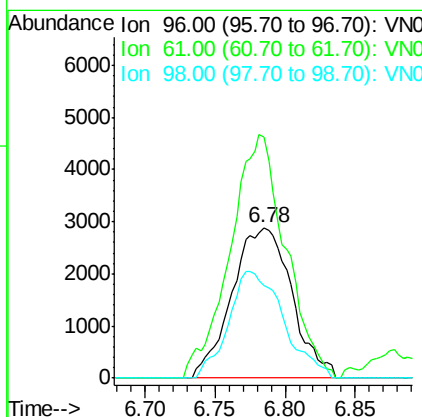
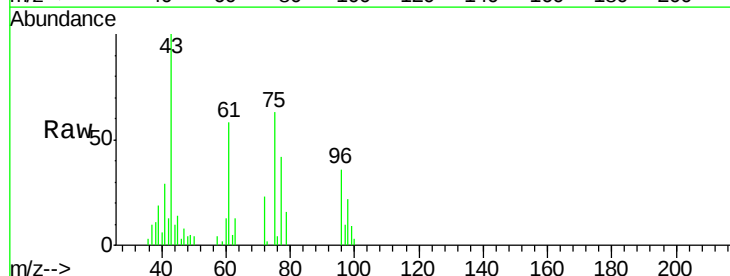
Manual Integrations
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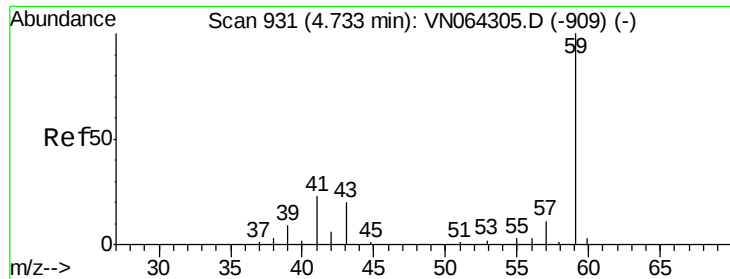
MMDadoda
 10/27/2020 2:21:25 PM



#22
 cis-1,2-Dichloroethene
 Concen: 2.644 ug/l m
 RT: 6.78 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	8524		
61	150.0		133.0	199.6
98	65.3		51.6	77.4





#23

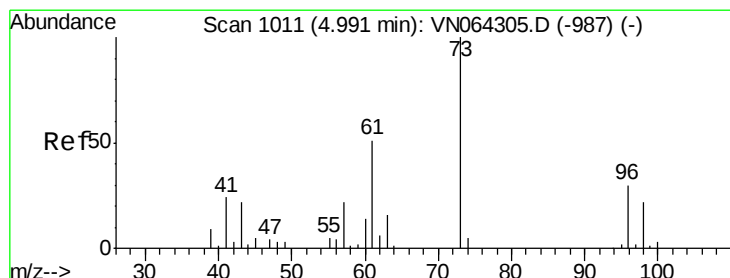
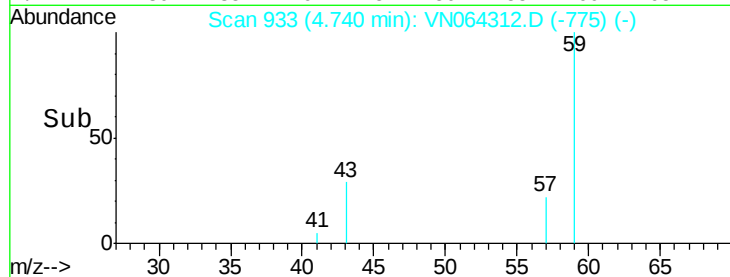
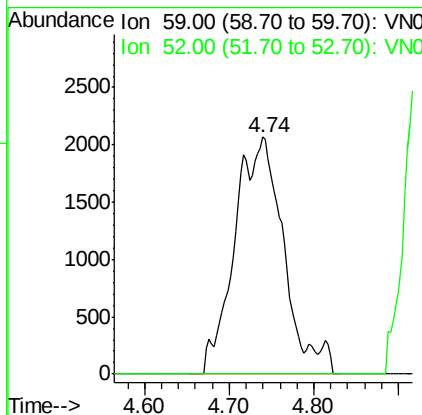
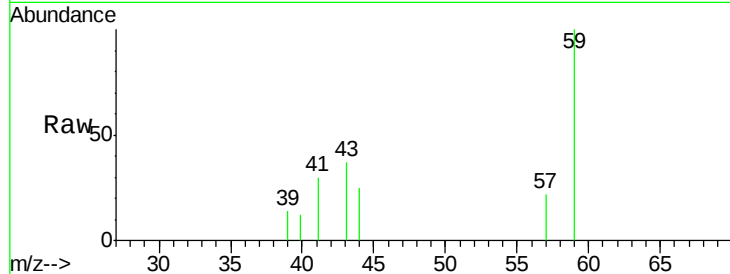
tert-Butyl Alcohol
 Concen: 13.644 ug/l m
 RT: 4.74 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Manual Integrations
 APPROVED

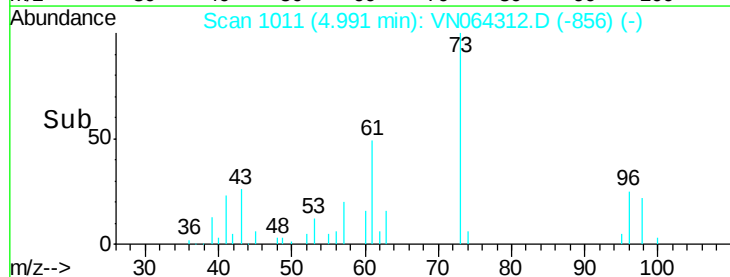
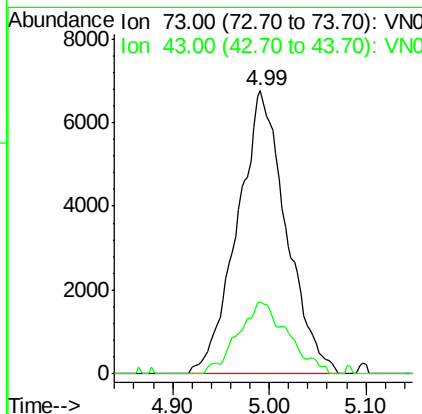
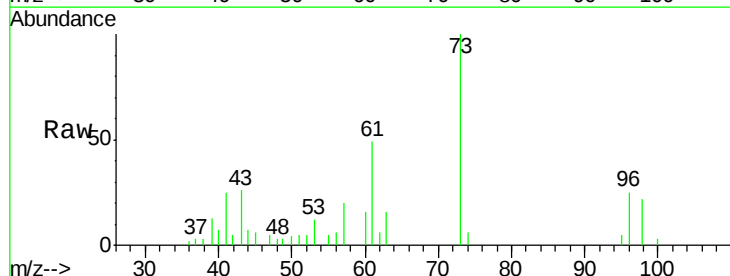
MMDadoda
 10/27/2020 2:21:25 PM

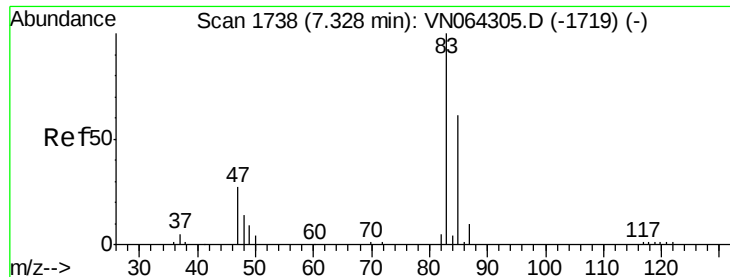


#24

Methyl tert-Butyl Ether
 Concen: 2.434 ug/l
 RT: 4.99 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
73	100		
43	14.8	19.4	29.2





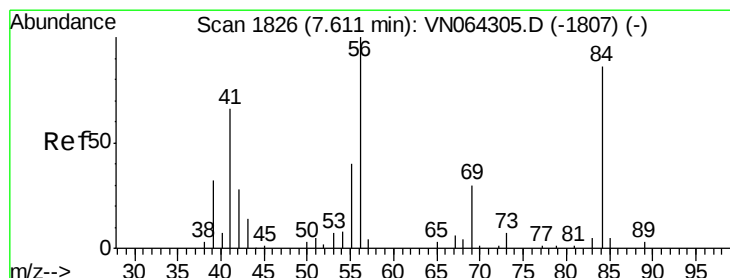
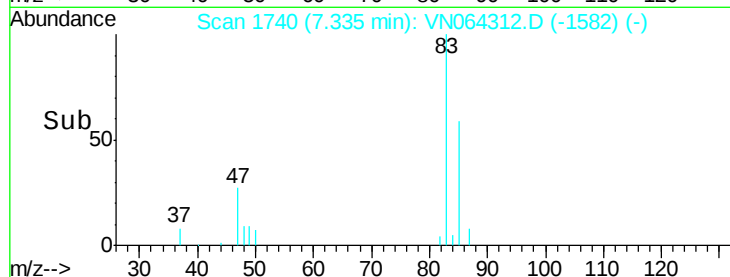
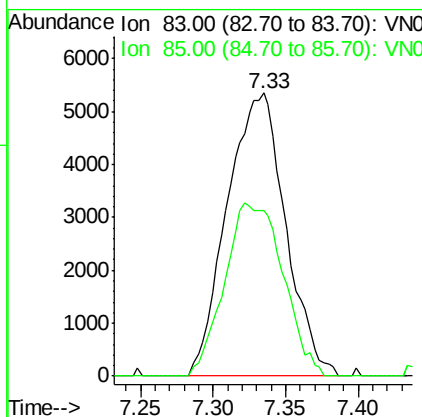
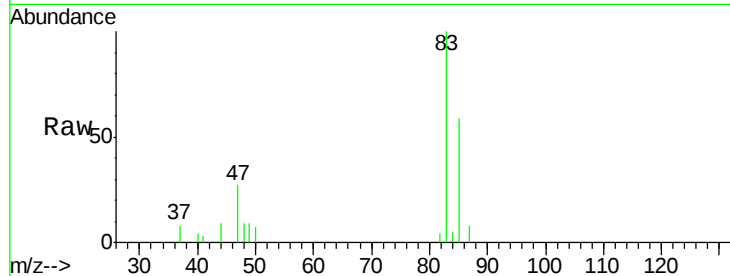
#25
Chloroform
Concen: 2.627 ug/l
RT: 7.33 min Scan# 1740
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 83 Resp: 15019
Ion Ratio Lower Upper
83 100
85 58.6 48.6 73.0

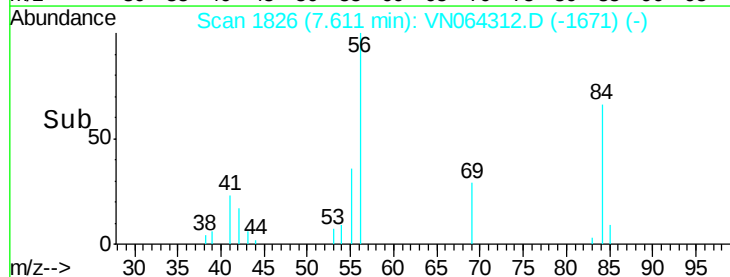
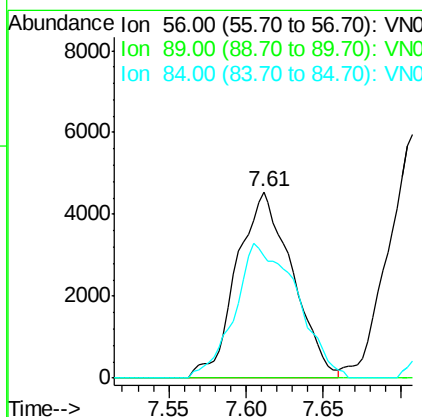
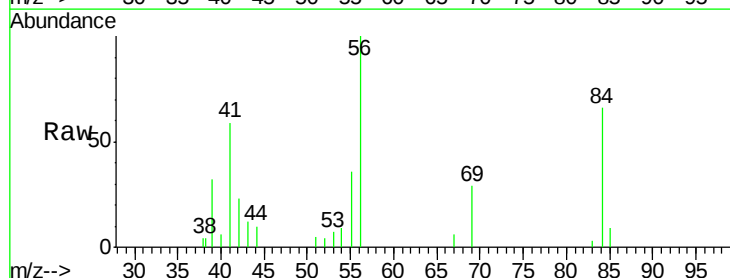
Manual Integrations
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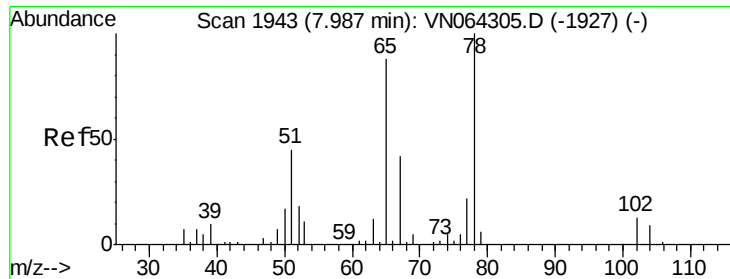
MMDadoda
10/27/2020 2:21:25 PM



#26
Cyclohexane
Concen: 2.510 ug/l
RT: 7.61 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 56 Resp: 11395
Ion Ratio Lower Upper
56 100
89 0.0 1.0 1.6#
84 80.4 67.5 101.3





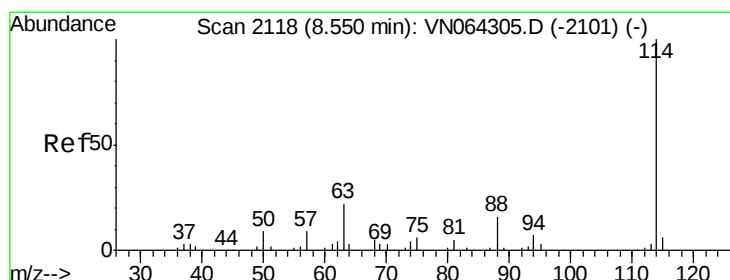
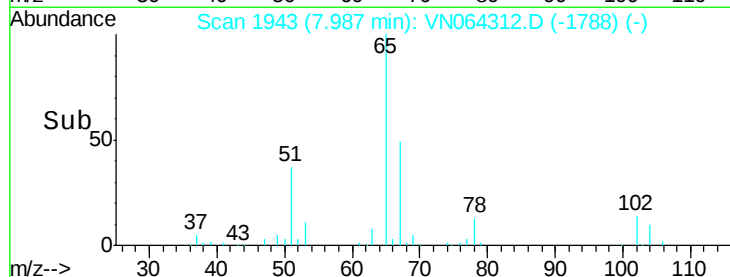
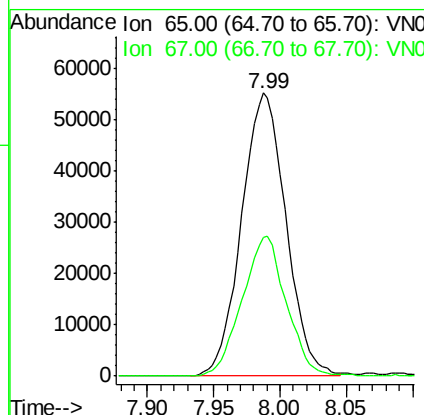
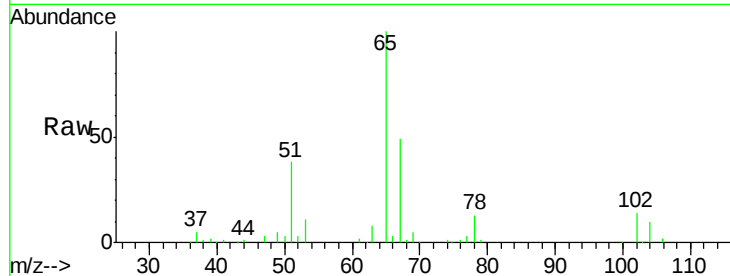
#27
 1,2-Dichloroethane-d4
 Concen: 31.166 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion: 65 Resp: 128475
 Ion Ratio Lower Upper
 65 100
 67 48.8 38.5 57.7

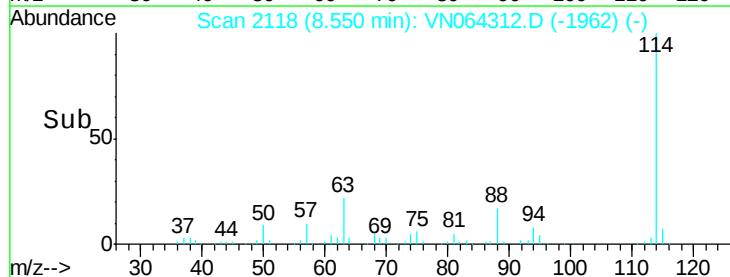
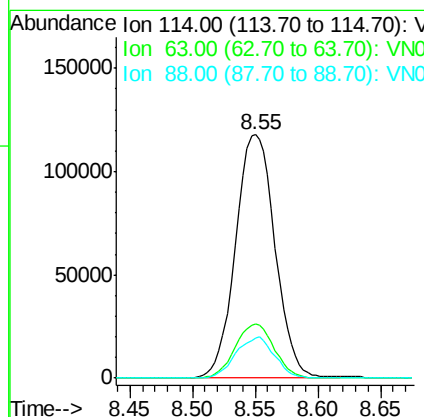
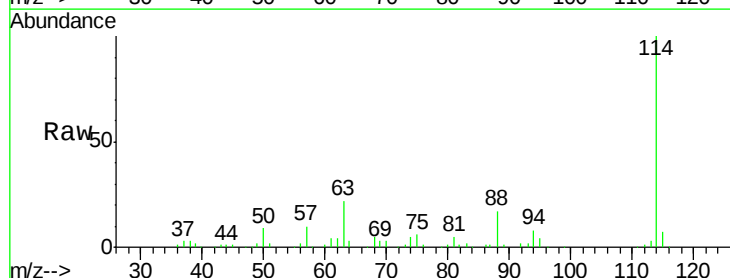
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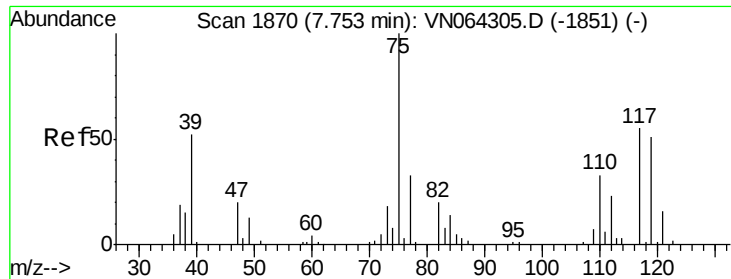
MMDadoda
 10/27/2020 2:21:25 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 114 Resp: 257986
 Ion Ratio Lower Upper
 114 100
 63 21.9 18.3 27.5
 88 16.5 13.2 19.8





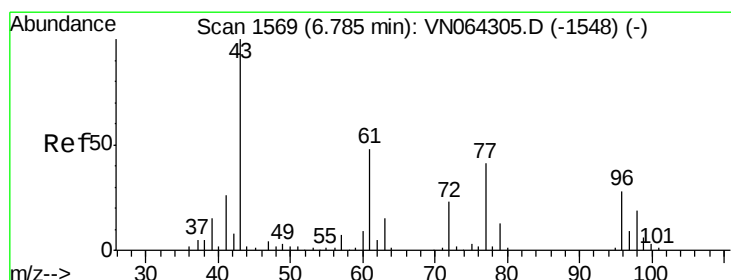
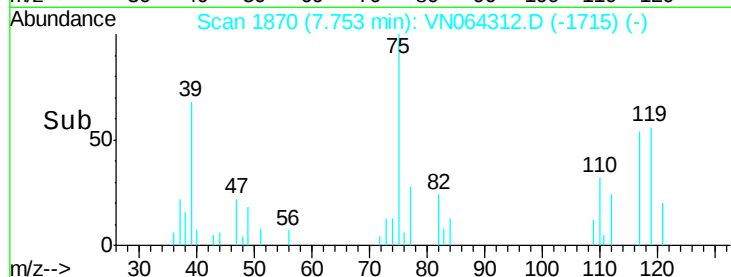
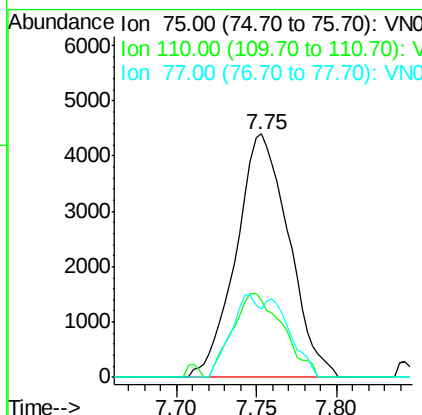
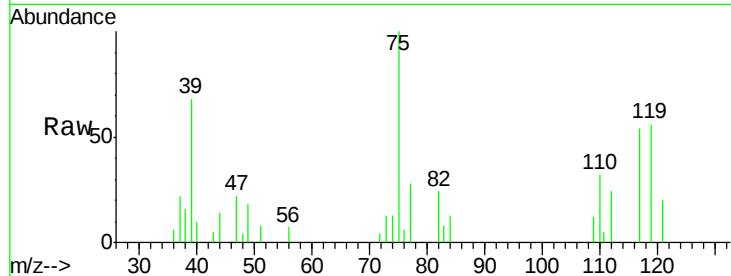
#29
 1,1-Dichloropropene
 Concen: 2.235 ug/l
 RT: 7.75 min Scan# 1870
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.8	0.0	64.4
77	18.8	0.0	63.6

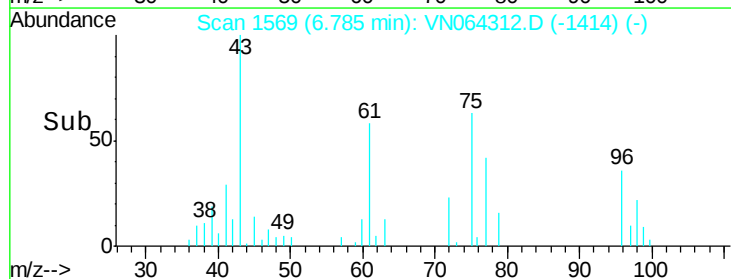
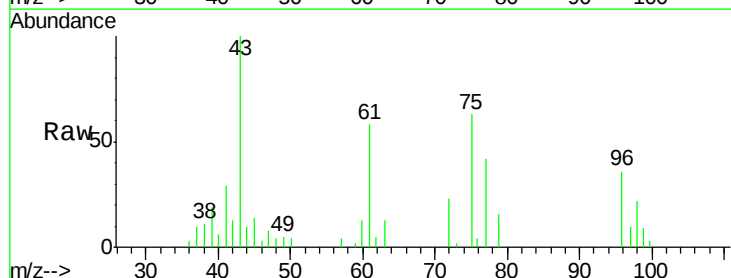
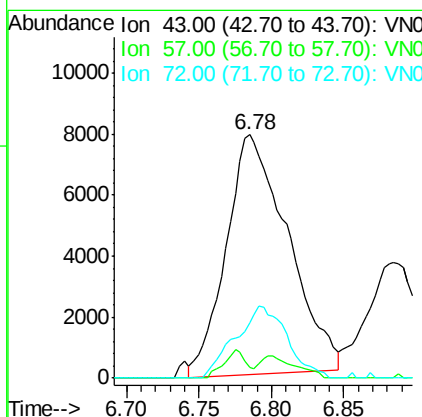
Manual Integrations
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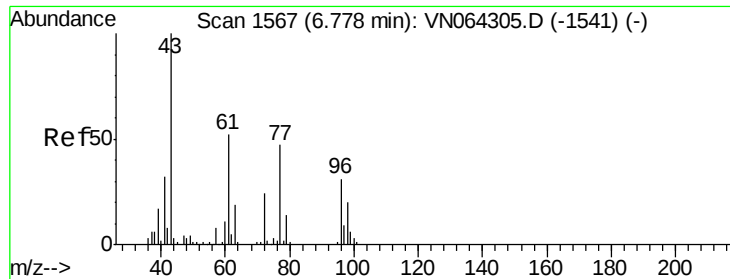
MMDadoda
 10/27/2020 2:21:25 PM



#30
 2-Butanone
 Concen: 11.078 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
43	100		
57	5.4	4.1	6.1
72	25.2	19.0	28.6





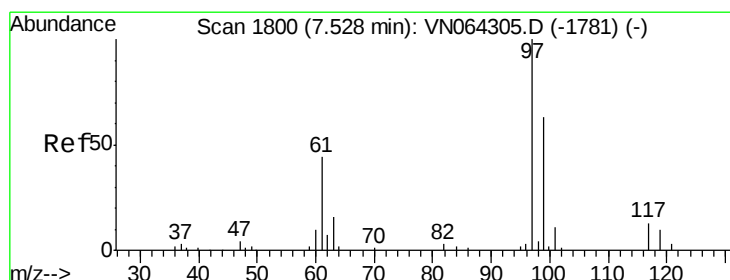
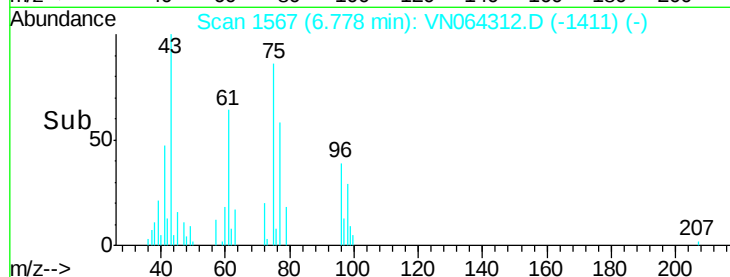
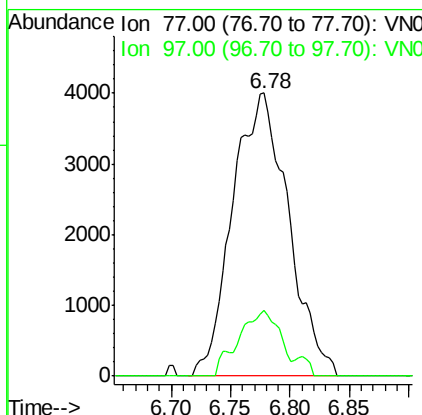
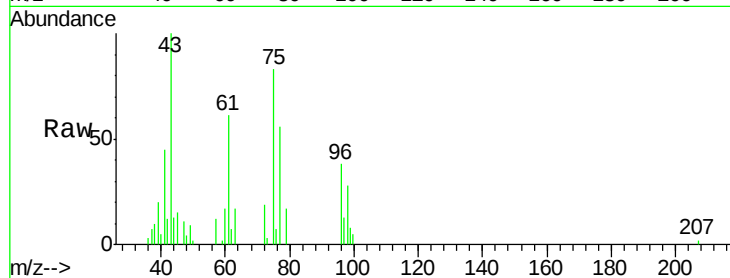
#31
 2,2-Dichloropropane
 Concen: 2.455 ug/l m
 RT: 6.78 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion: 77 Resp: 13098
 Ion Ratio Lower Upper
 77 100
 97 2.4 5.8 8.8#

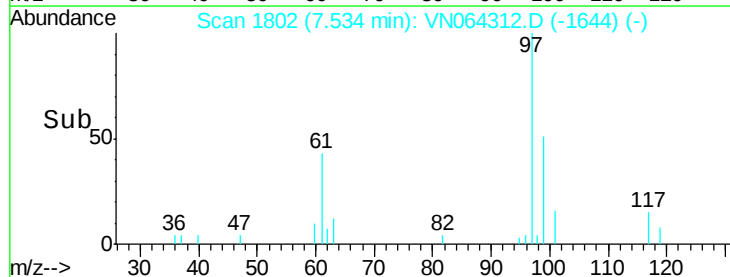
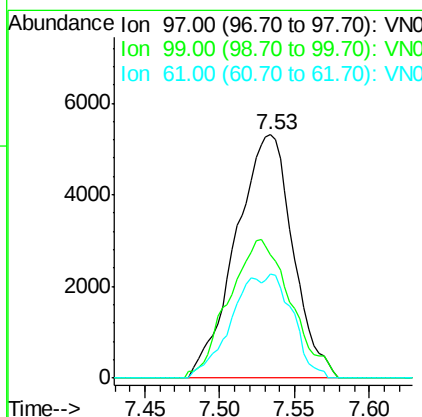
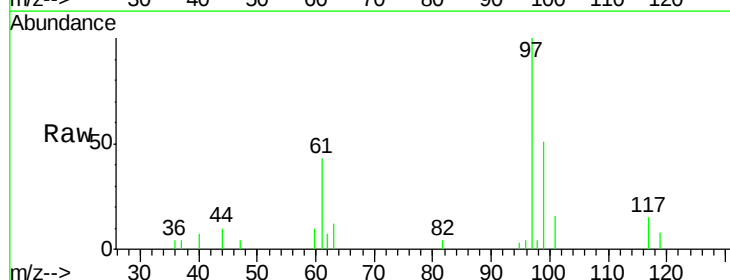
Manual Integrations
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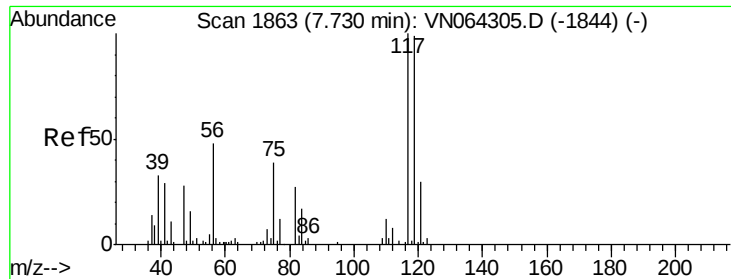
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 2.534 ug/l
 RT: 7.53 min Scan# 1802
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 97 Resp: 14088
 Ion Ratio Lower Upper
 97 100
 99 60.2 51.6 77.4
 61 23.7 36.4 54.6#





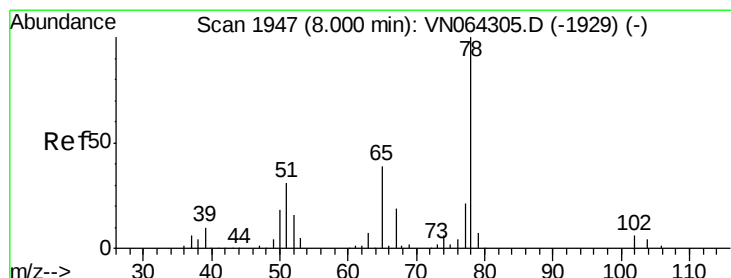
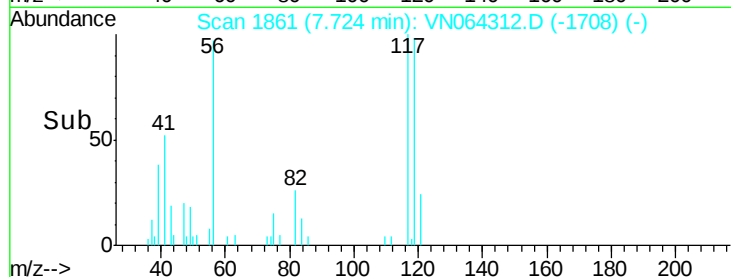
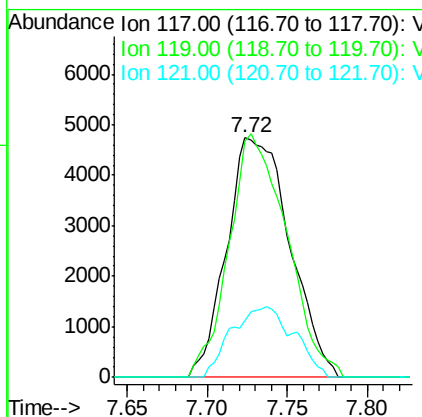
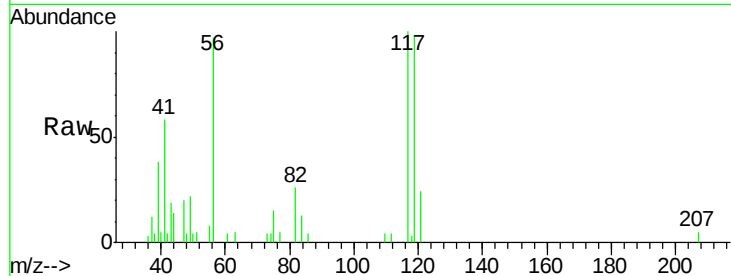
#33
Carbon Tetrachloride
Concen: 2.520 ug/l
RT: 7.72 min Scan# 1861
Delta R.T. -0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
117	100		
119	98.4	79.3	118.9
121	23.8	24.6	37.0#

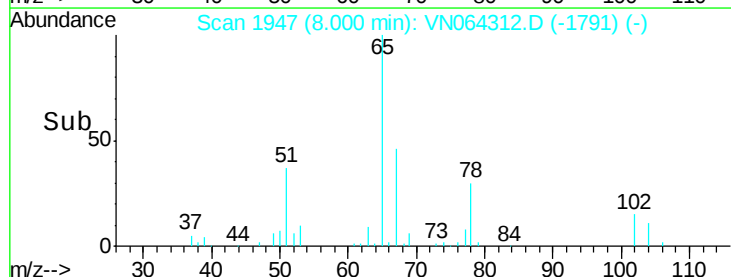
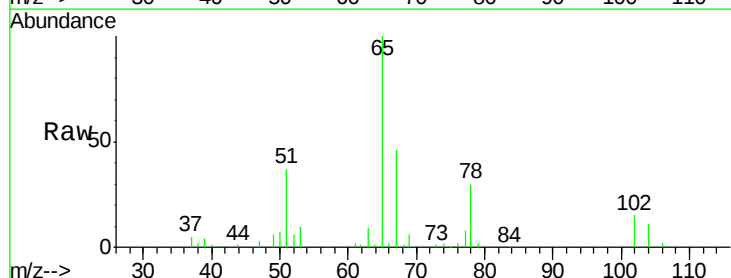
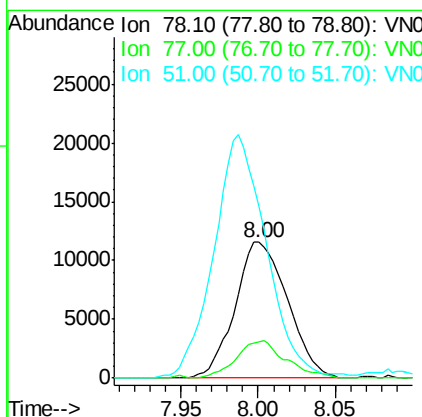
Manual Integrations
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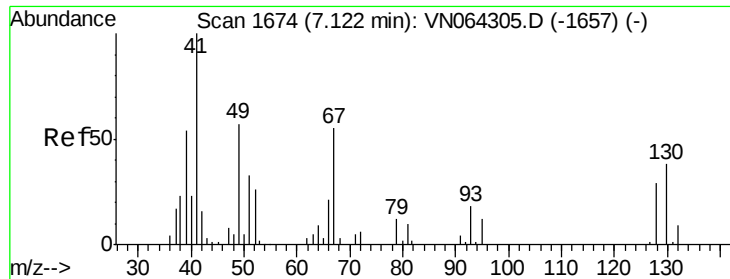
MMDadoda
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#34
Benzene
Concen: 2.290 ug/l
RT: 8.00 min Scan# 1947
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.1	16.5	24.7#
51	123.6	24.5	36.7#





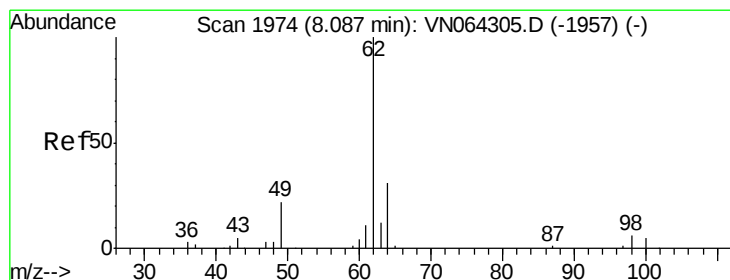
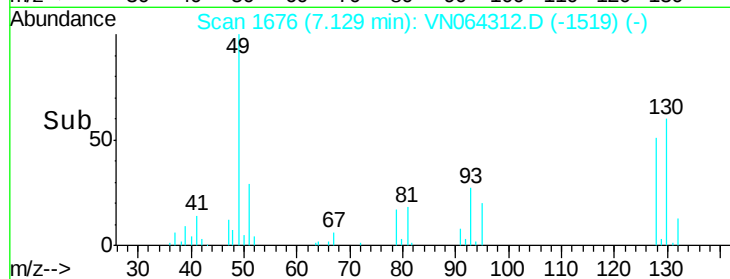
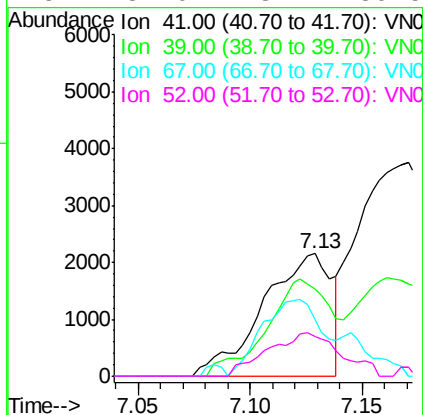
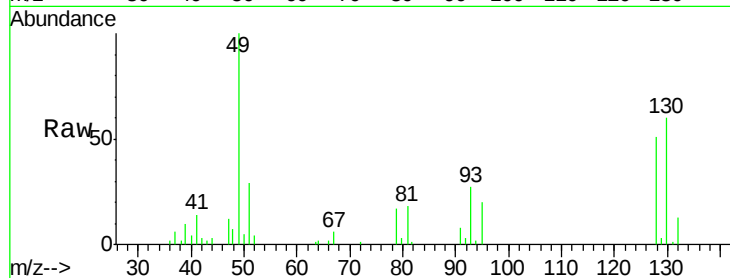
#35
Methacrylonitrile
Concen: 2.118 ug/l m
RT: 7.13 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.2	27.1	81.2
67	46.2	27.7	83.1
52	32.0	13.2	39.5

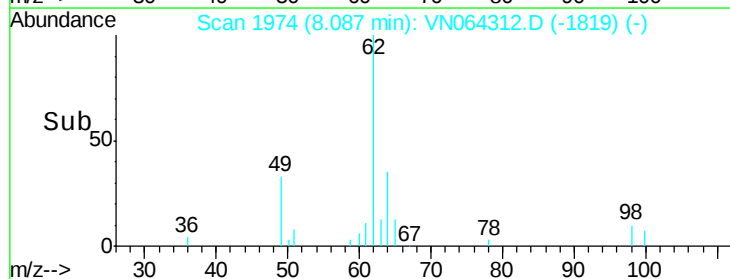
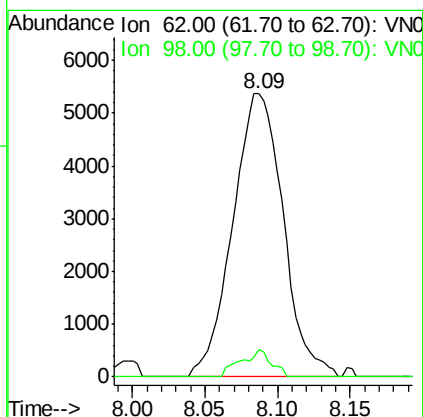
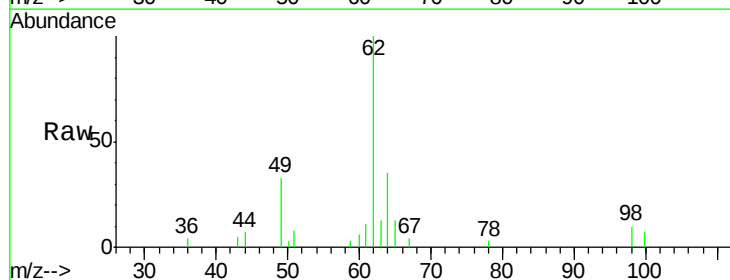
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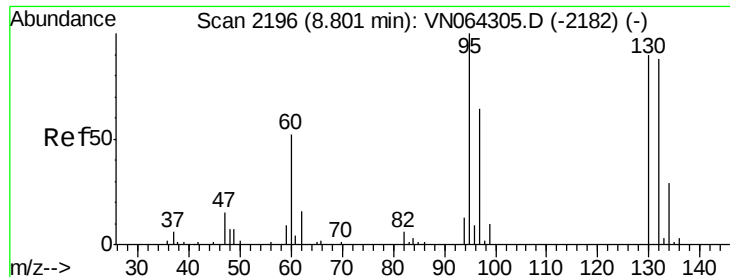
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#36
1,2-Dichloroethane
Concen: 2.452 ug/l
RT: 8.09 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	3.4	3.4	5.0#





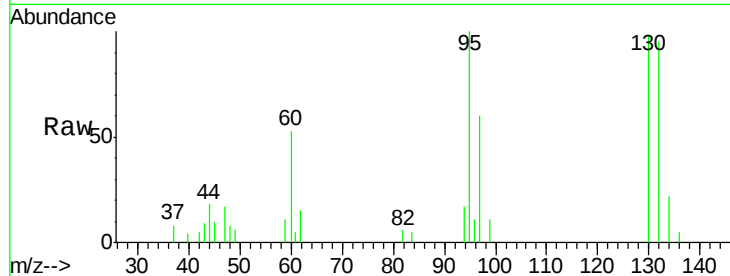
#37
 Trichloroethene
 Concen: 2.480 ug/l
 RT: 8.80 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

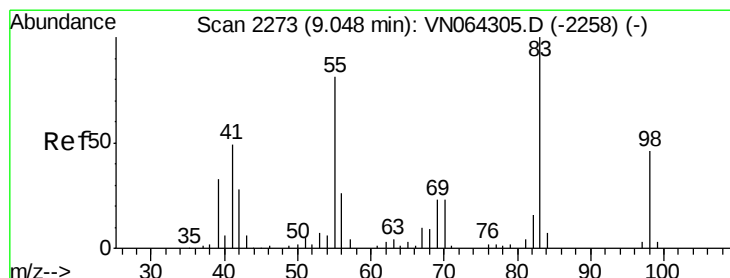
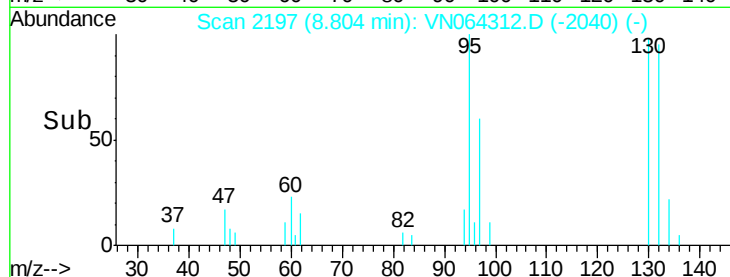
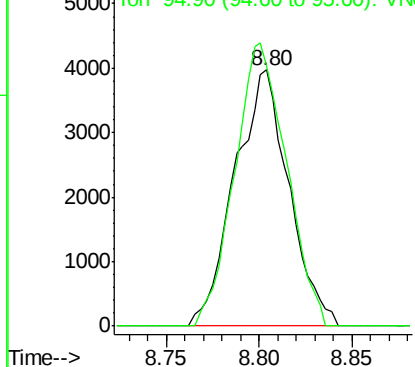
Tot Ion:130 Resp: 8064
 Ion Ratio Lower Upper
 130 100
 95 101.5 88.8 133.2

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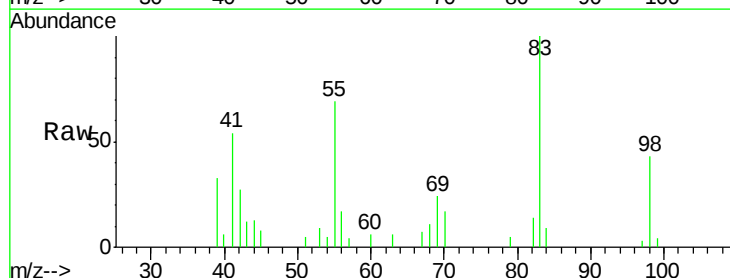


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

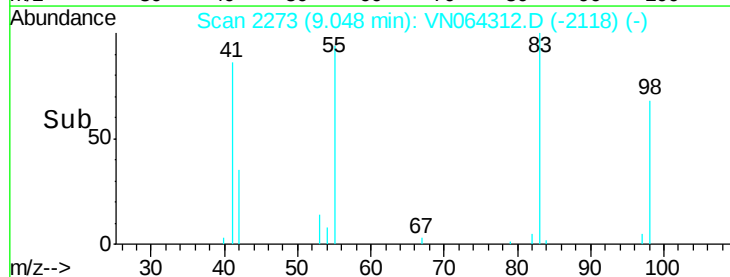
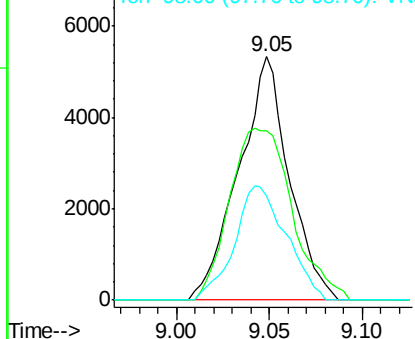


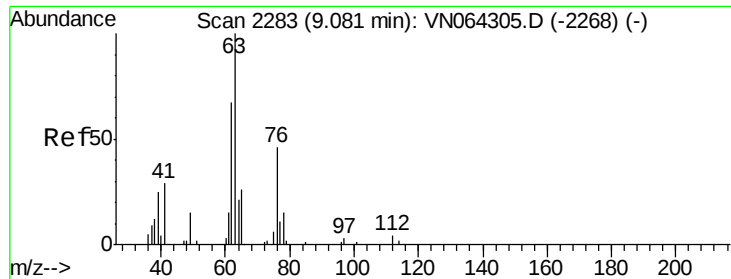
#38
 Methylcyclohexane
 Concen: 2.353 ug/l
 RT: 9.05 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 83 Resp: 10097
 Ion Ratio Lower Upper
 83 100
 55 87.3 40.3 120.8
 98 47.7 22.8 68.3



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 98.00 (97.70 to 98.70): VN





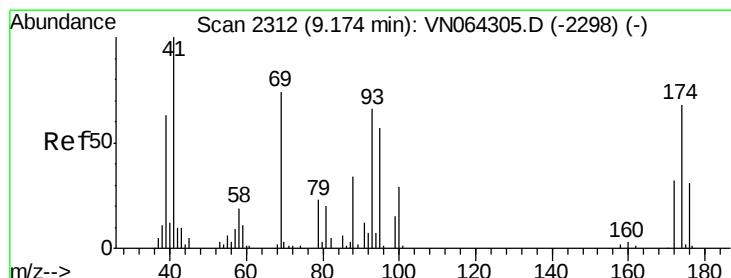
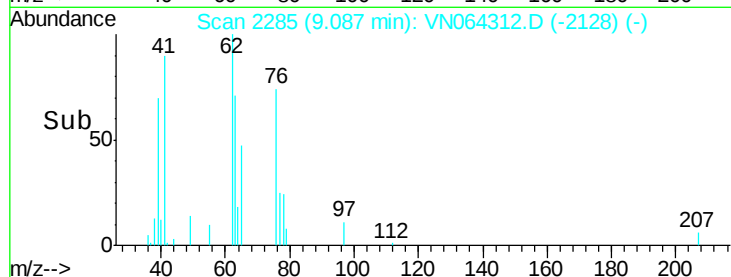
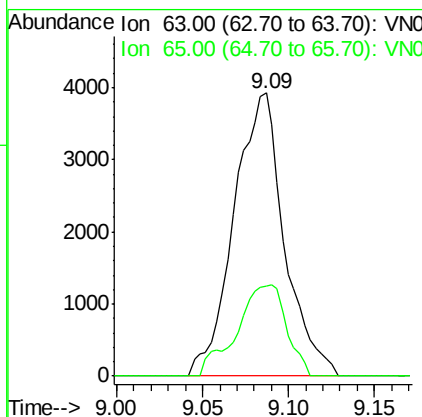
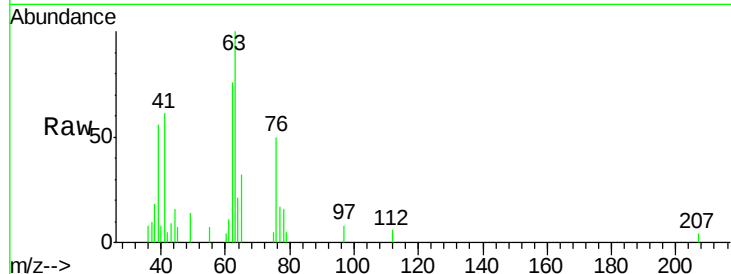
#39
 1,2-Dichloropropane
 Concen: 2.491 ug/l
 RT: 9.09 min Scan# 2285
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion: 63 Resp: 8017
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.6 33.8

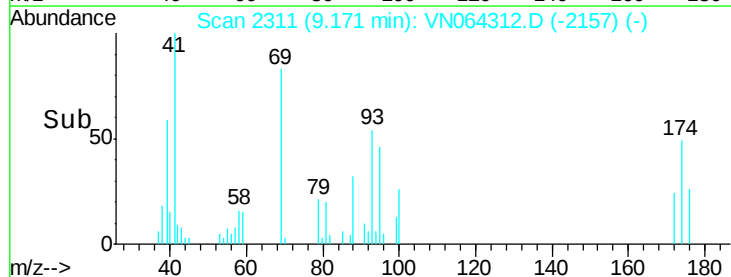
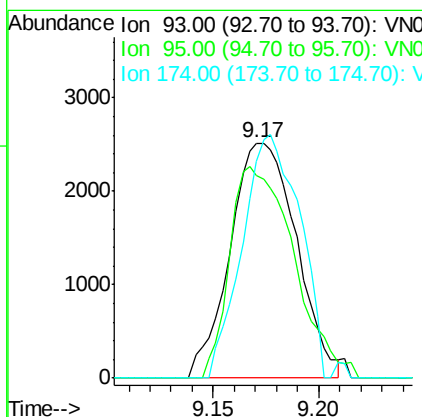
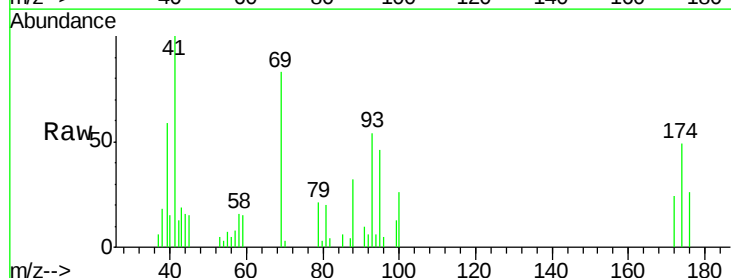
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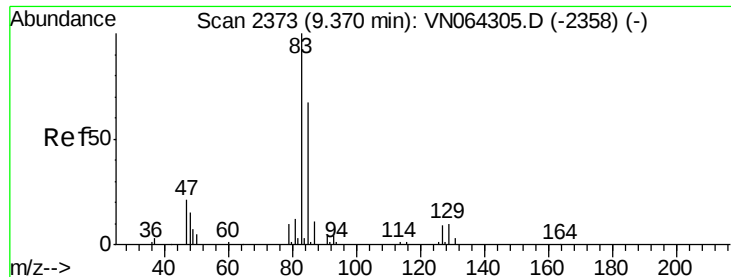
MMDadoda
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#40
 Dibromomethane
 Concen: 2.458 ug/l
 RT: 9.17 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 93 Resp: 5489
 Ion Ratio Lower Upper
 93 100
 95 86.6 0.0 174.4
 174 89.9 0.0 188.0





#41

Bromodichloromethane

Concen: 2.339 ug/l

RT: 9.37 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

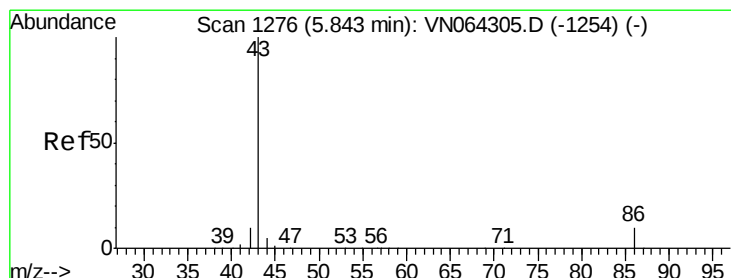
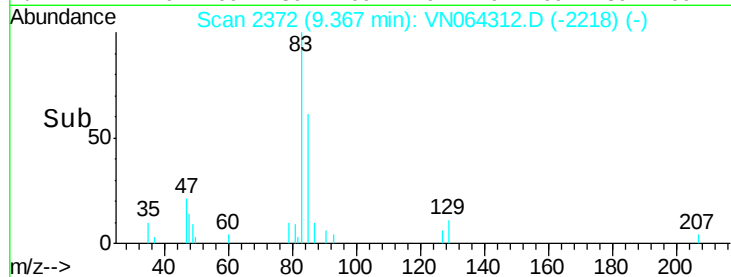
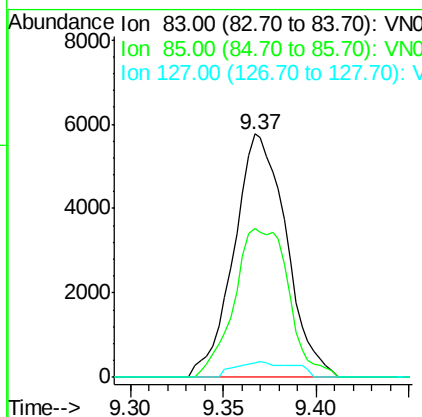
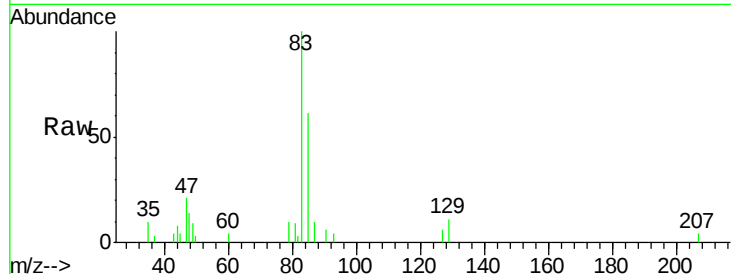
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	83	Resp:	11281
Ion Ratio	Lower	Upper	
83	100		
85	61.1	53.4	80.0
127	5.9	7.0	10.4#

Manual Integrations
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#42

Vinyl Acetate

Concen: 11.129 ug/l m

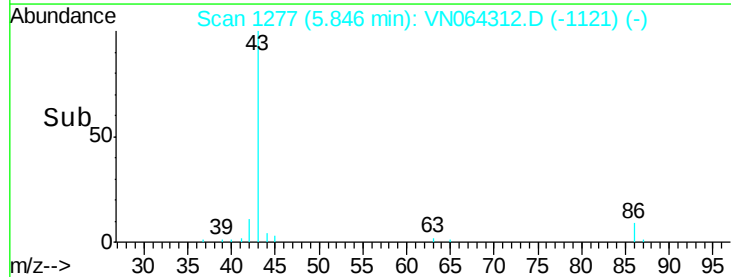
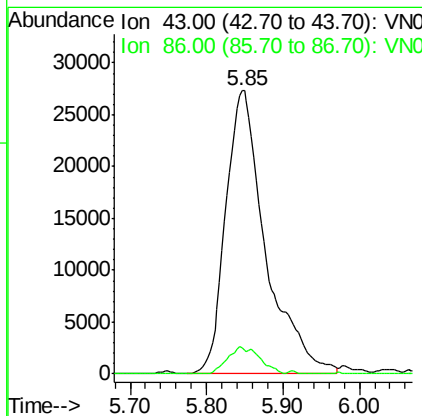
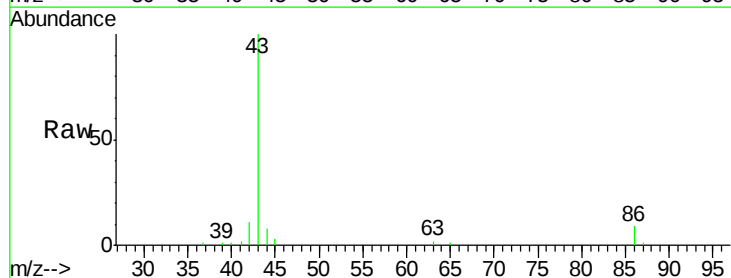
RT: 5.85 min Scan# 1277

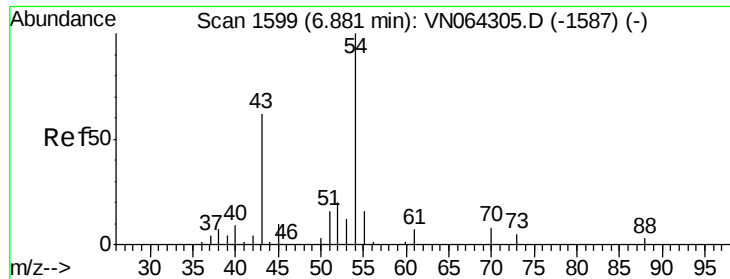
Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	43	Resp:	99524
Ion Ratio	Lower	Upper	
43	100		
86	4.5	6.6	9.8#





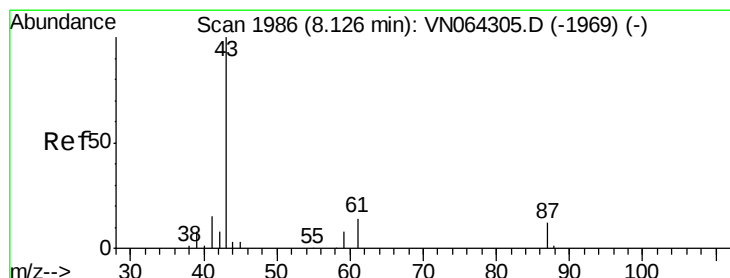
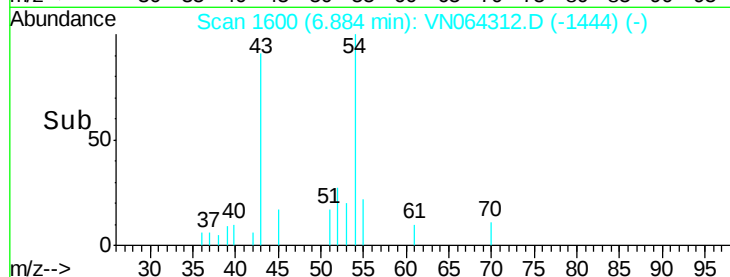
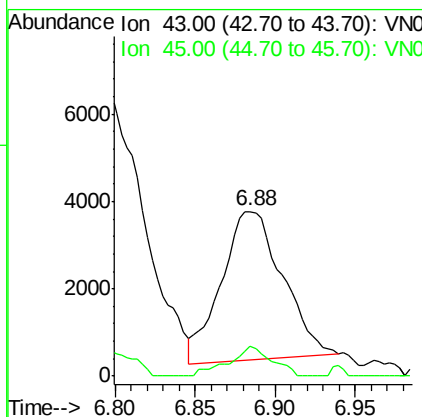
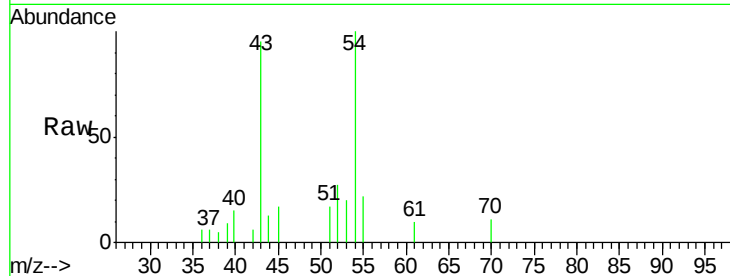
#43
Ethyl Acetate
Concen: 2.083 ug/l
RT: 6.88 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 8887
Ion Ratio Lower Upper
43 100
45 11.3 4.0 6.0#

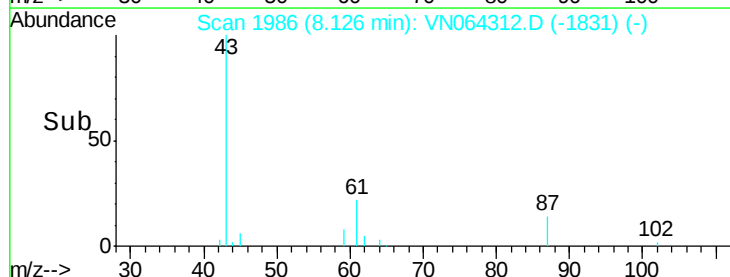
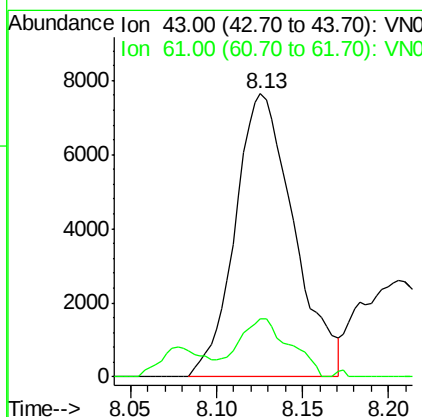
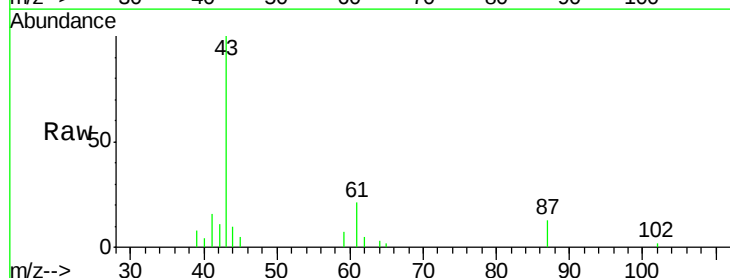
Manual Integrations
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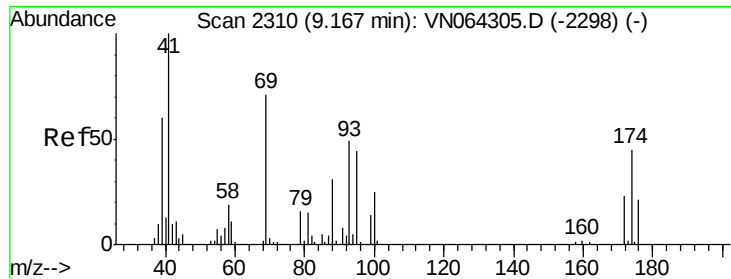
MMDadoda
10/27/2020 2:21:25 PM



#44
Isopropyl Acetate
Concen: 2.314 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 43 Resp: 18135
Ion Ratio Lower Upper
43 100
61 17.6 14.3 21.5





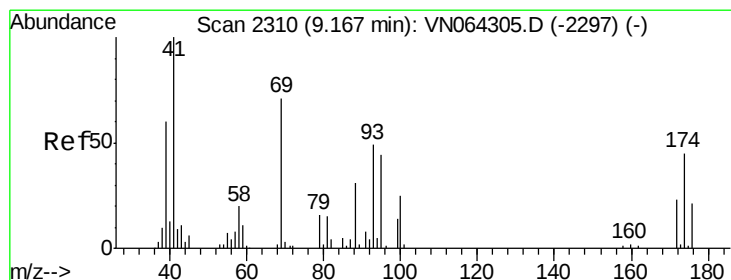
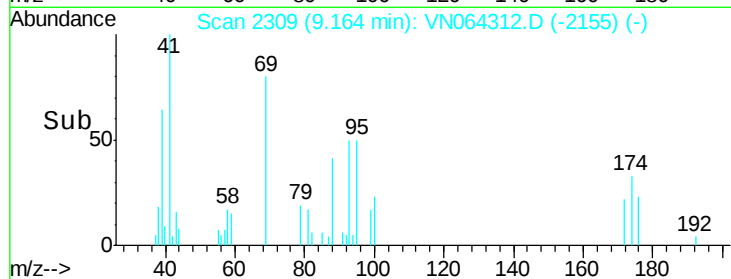
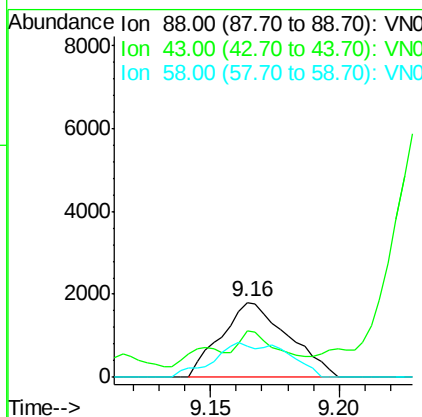
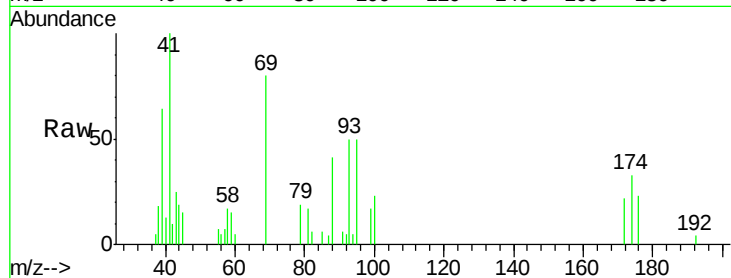
#45
 1,4-Dioxane
 Concen: 53.682 ug/l
 RT: 9.16 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.9	31.2	46.8
58	29.1	55.4	83.2#

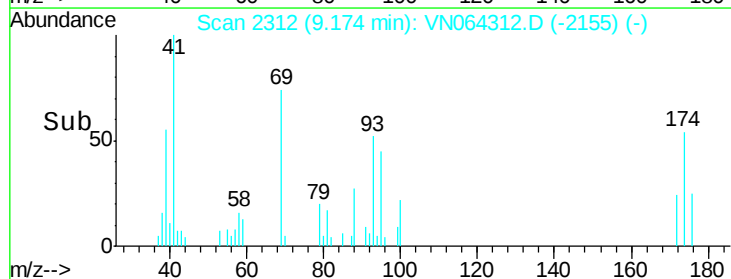
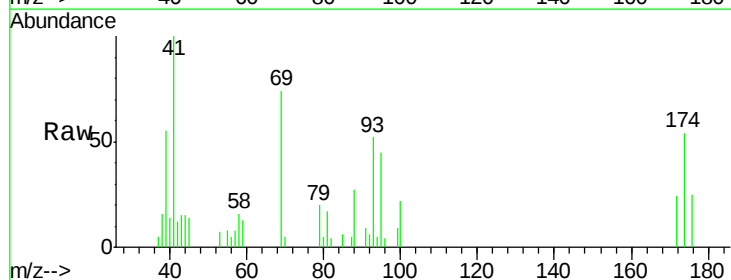
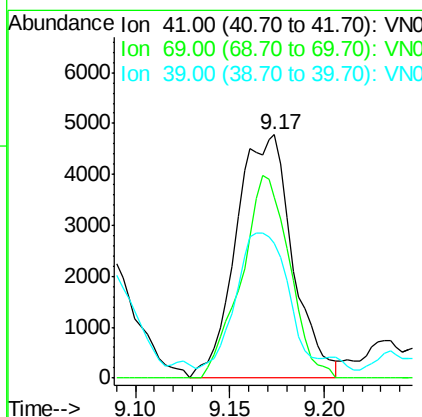
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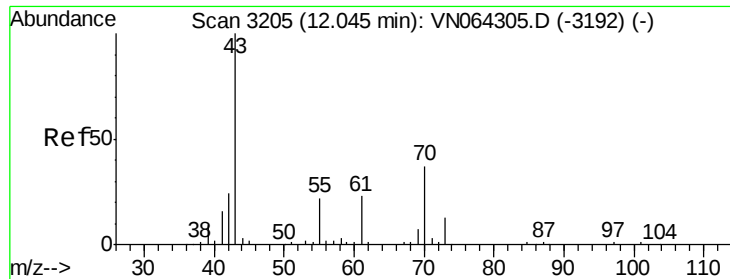
MMDadoda
 10/27/2020 2:21:25 PM



#46
 Methyl methacrylate
 Concen: 2.587 ug/l m
 RT: 9.17 min Scan# 2312
 Delta R.T. 0.01 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
41	100		
69	74.4	35.3	105.9
39	55.1	30.2	90.6





#47

n-amvl Acetate

Concen: 2.100 ug/l

RT: 12.05 min Scan# 3205

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion: 43 Resp: 13855

Ion Ratio Lower Upper

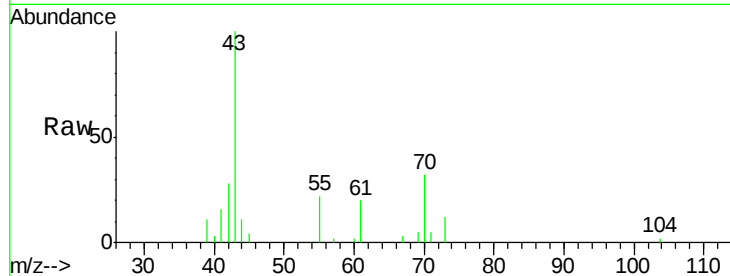
43 100

55 22.4 17.3 25.9

Manual Integrations
APPROVED

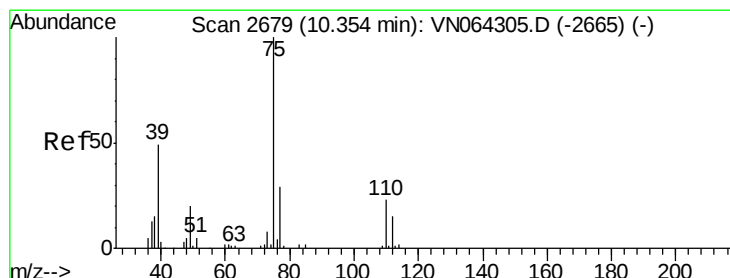
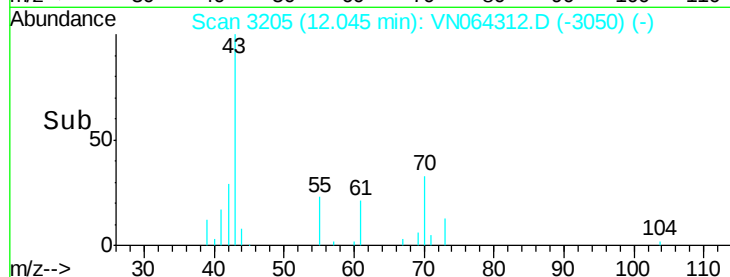
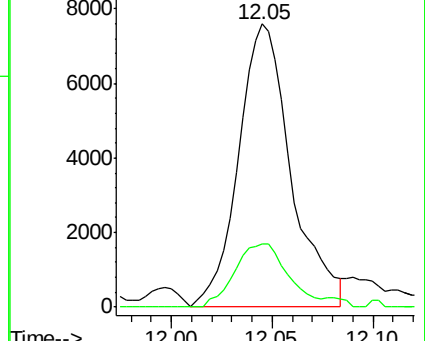
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 2.089 ug/l m

RT: 10.35 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN064312.D

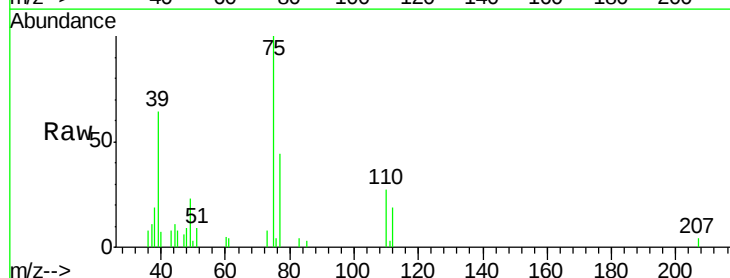
Acq: 26 Oct 2020 19:51

Tgt Ion: 75 Resp: 11367

Ion Ratio Lower Upper

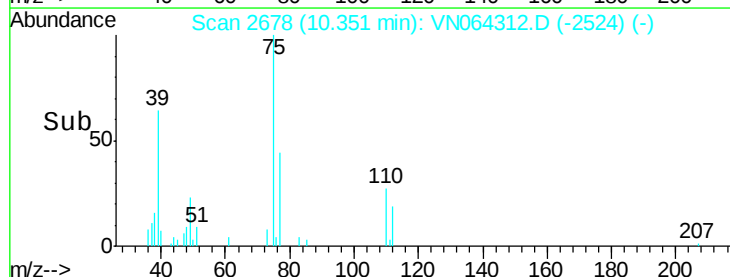
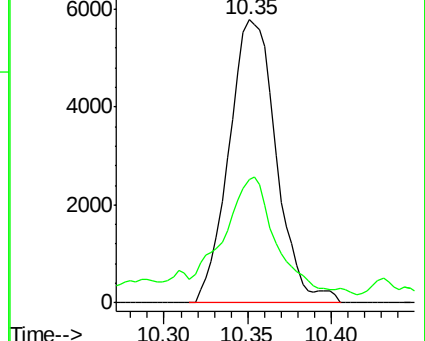
75 100

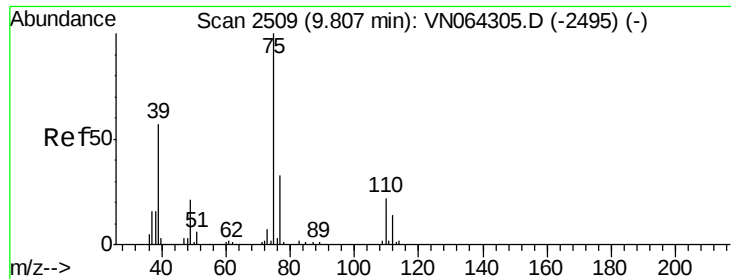
77 43.8 23.7 35.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





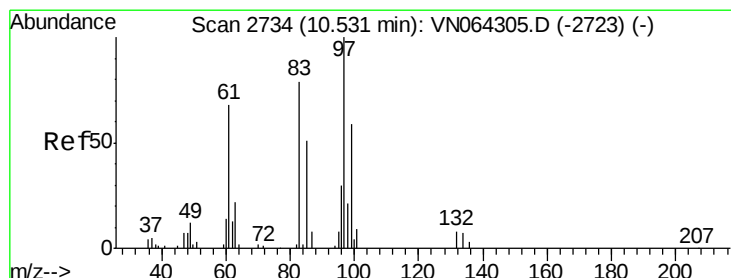
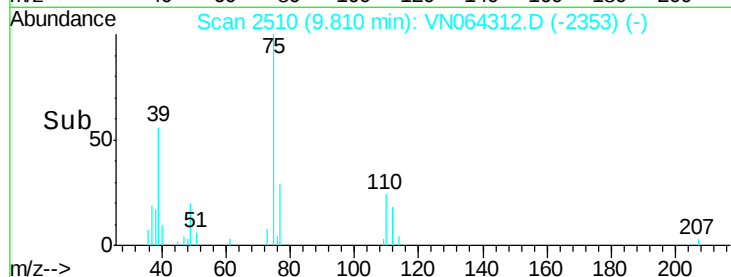
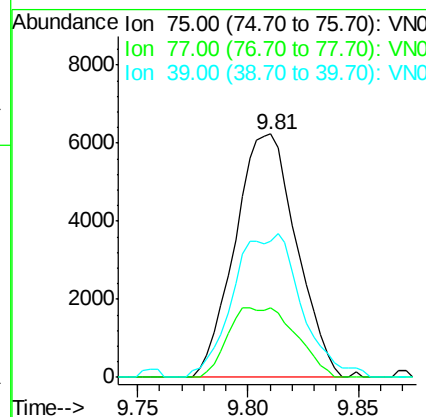
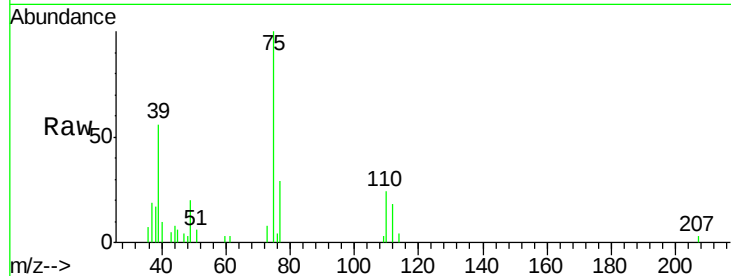
#49
 cis-1,3-Dichloropropene
 Concen: 2.170 ug/l
 RT: 9.81 min Scan# 2510
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	28.7	26.7	40.1
39	52.9	45.9	68.9

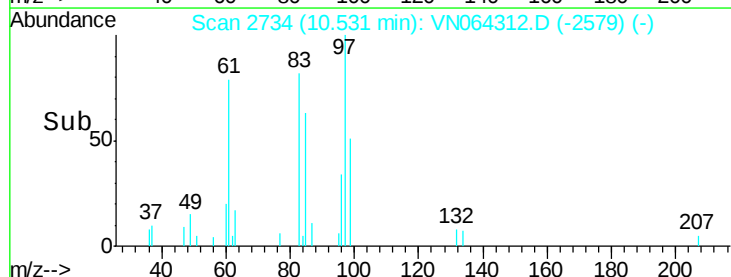
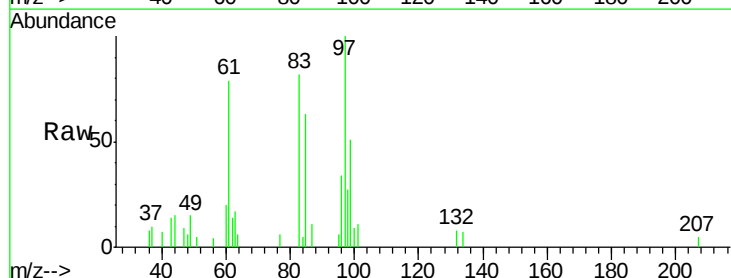
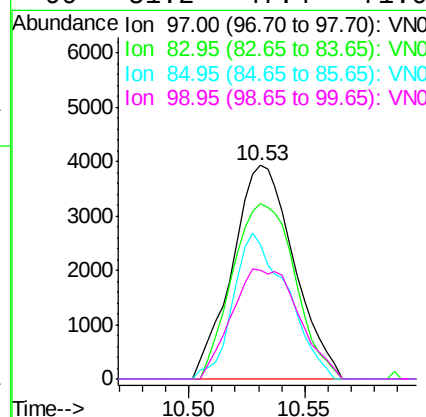
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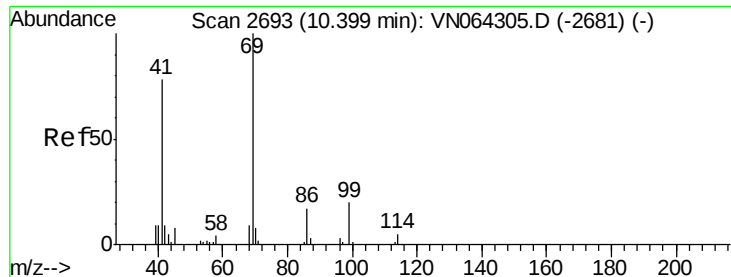
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#50
 1,1,2-Trichloroethane
 Concen: 2.424 ug/l
 RT: 10.53 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.9	63.2	94.8
85	62.9	41.0	61.6#
99	51.2	47.4	71.0





#51

Ethyl methacrylate

Concen: 2.092 ug/l

RT: 10.40 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

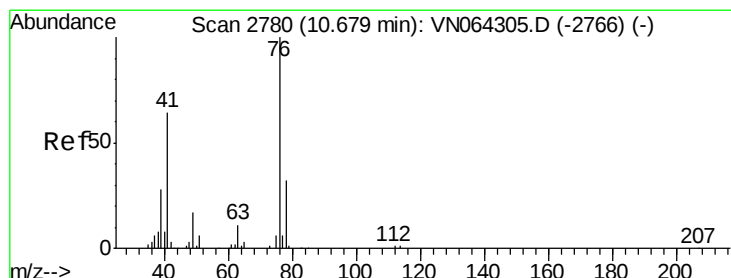
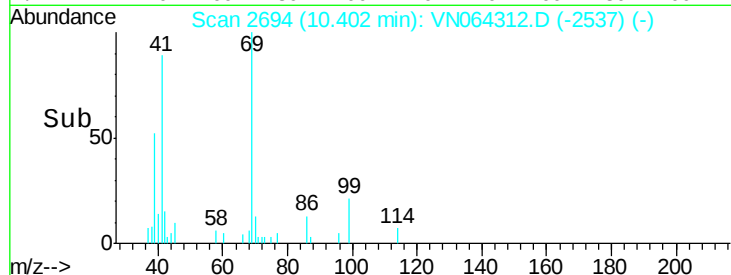
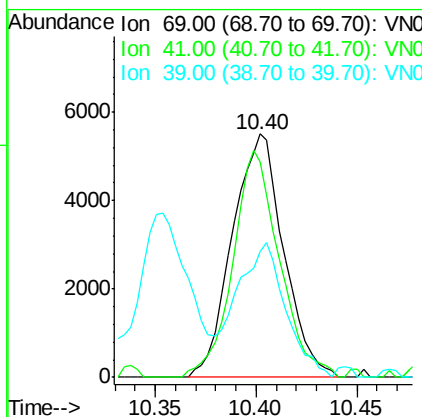
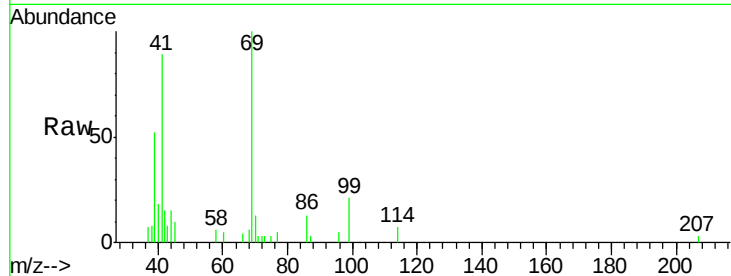
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	69	Resp:	9794
Ion	Ratio	Lower	Upper
69	100		
41	88.6	38.8	116.4
39	47.7	24.6	74.0

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 2.344 ug/l

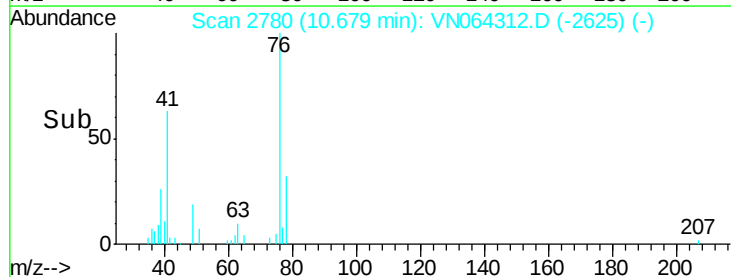
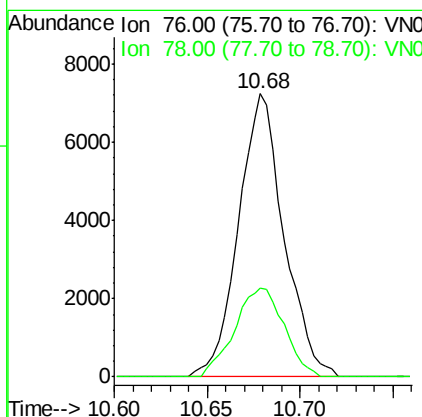
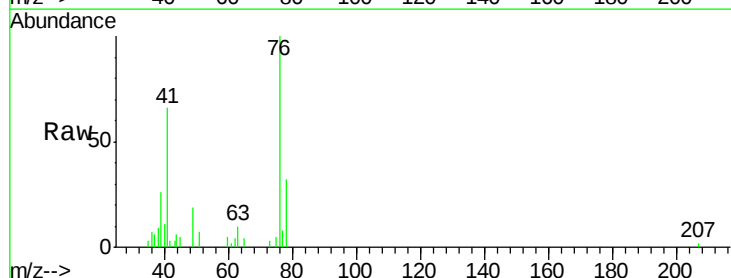
RT: 10.68 min Scan# 2780

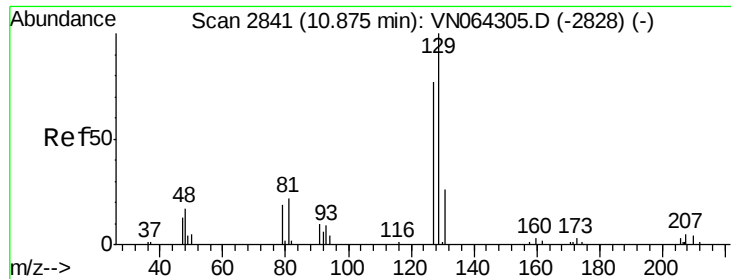
Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	76	Resp:	12341
Ion	Ratio	Lower	Upper
76	100		
78	34.1	0.0	61.6





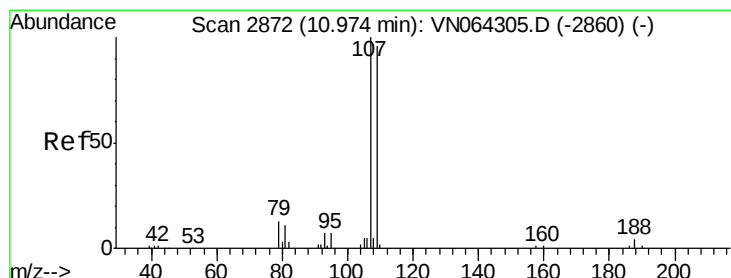
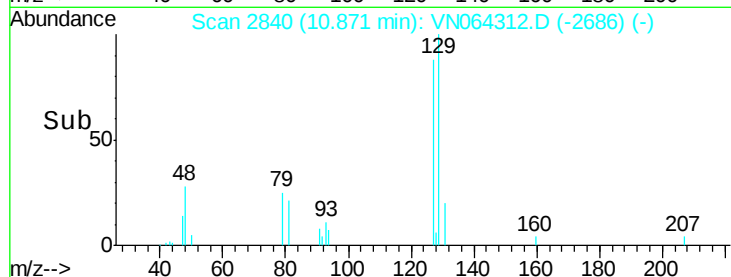
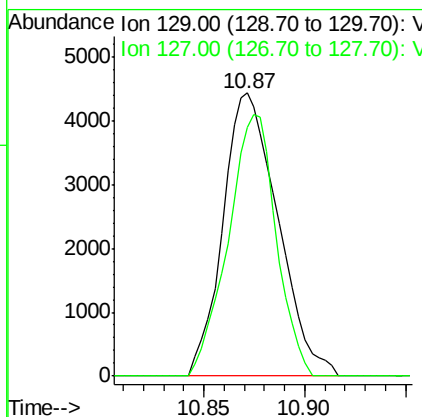
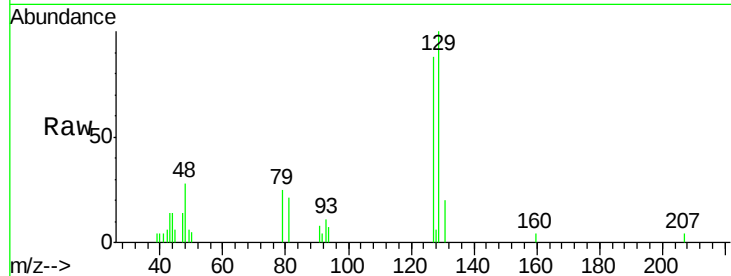
#53
Dibromochloromethane
Concen: 2.306 ug/l
RT: 10.87 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion:129 Resp: 8446
Ion Ratio Lower Upper
129 100
127 80.4 38.9 116.7

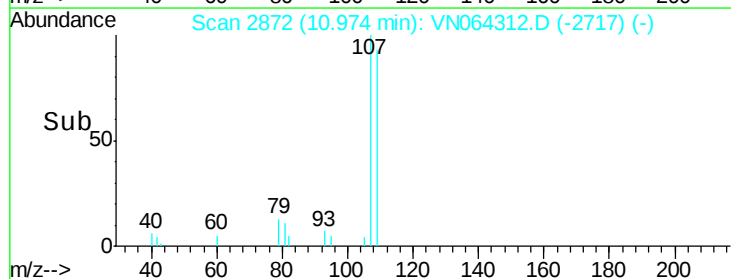
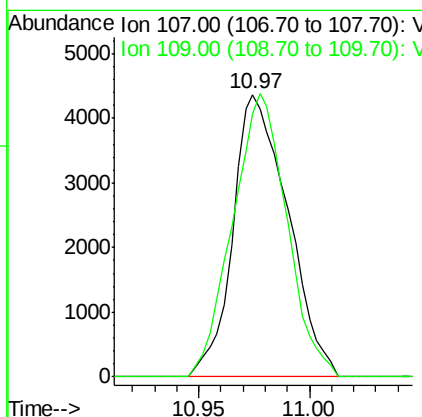
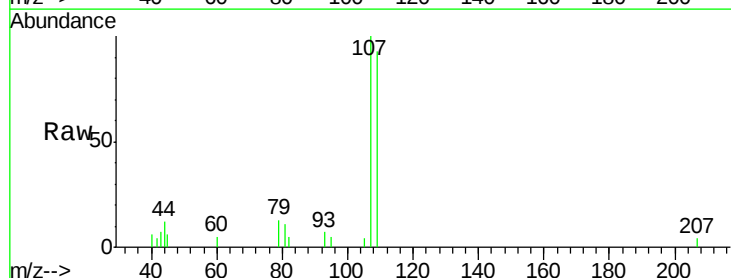
Manual Integrations
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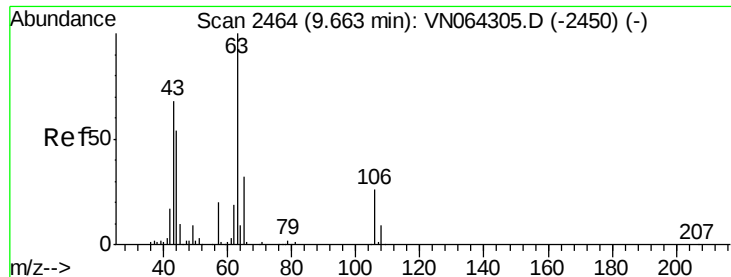
MMDadoda
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#54
1,2-Dibromoethane
Concen: 2.356 ug/l
RT: 10.97 min Scan# 2872
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion:107 Resp: 7547
Ion Ratio Lower Upper
107 100
109 98.6 74.8 112.2





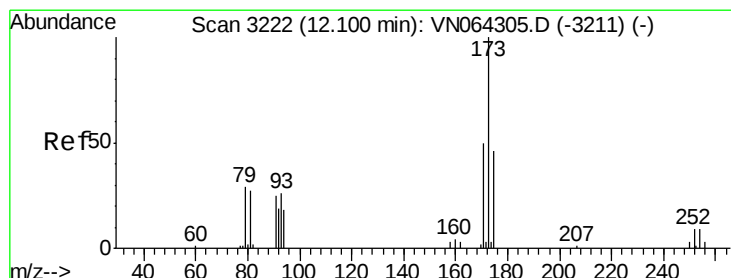
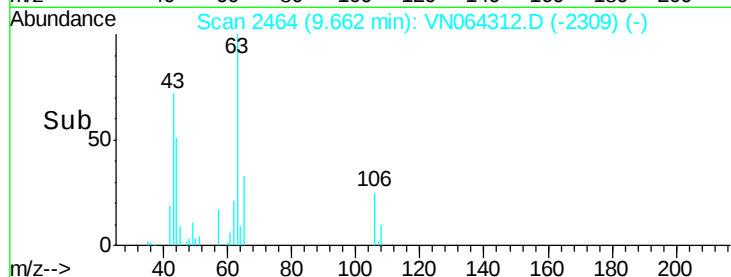
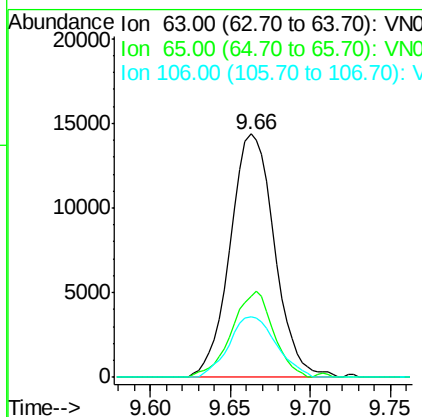
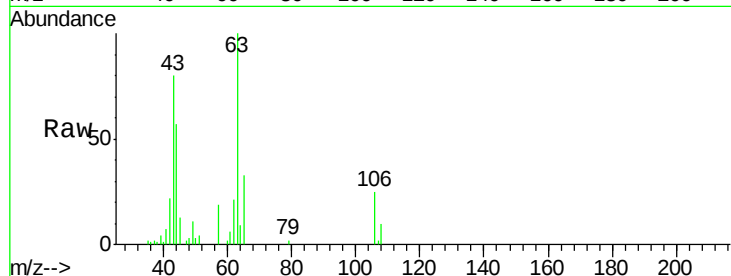
#55
2-Chloroethyl vinyl ether
Concen: 11.692 ug/l
RT: 9.66 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.0	25.6	38.4
106	26.4	20.7	31.1

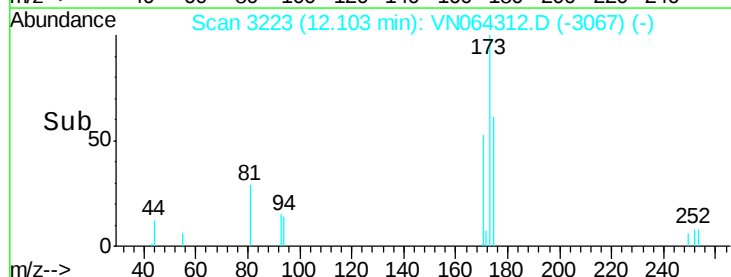
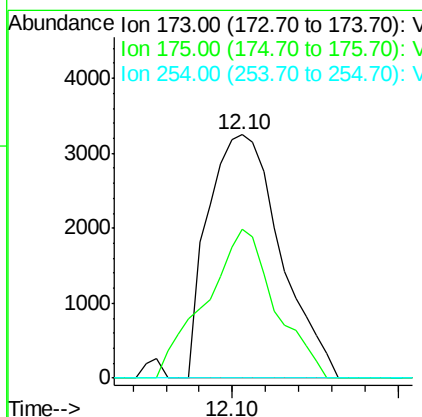
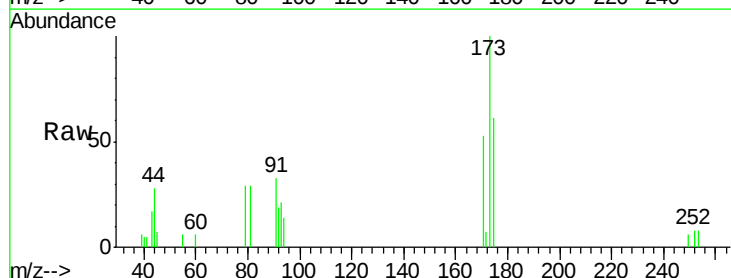
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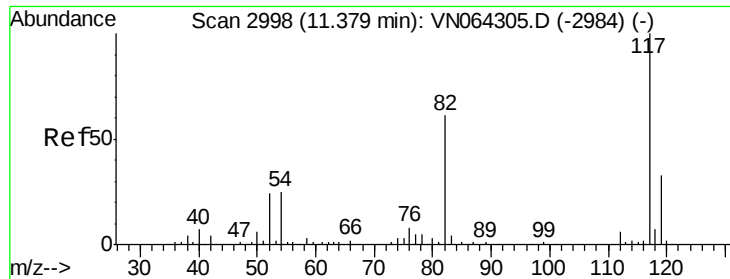
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#56
Bromoform
Concen: 1.875 ug/l
RT: 12.10 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
173	100		
175	58.7	37.3	55.9#
254	0.0	4.8	7.2#





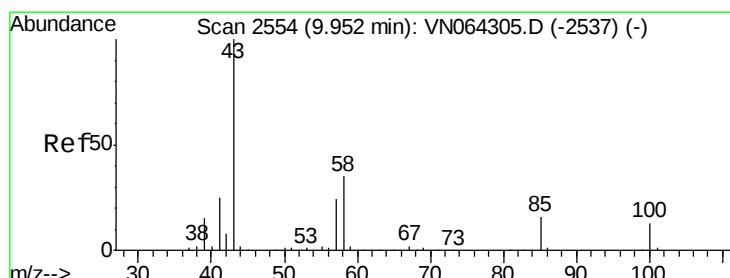
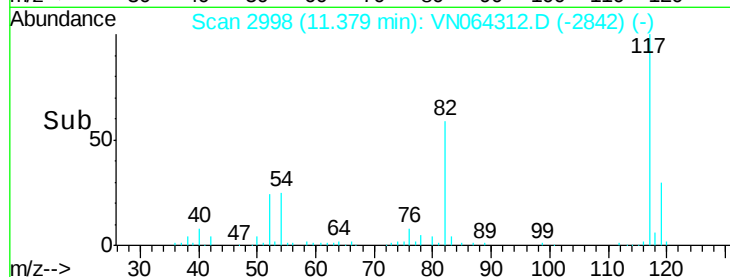
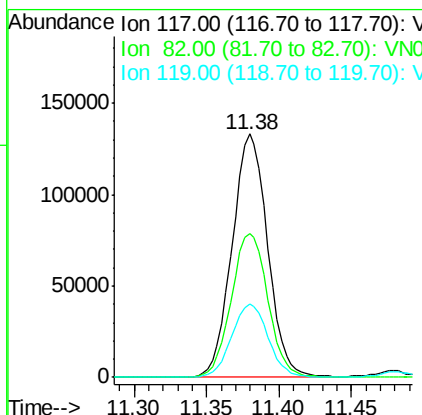
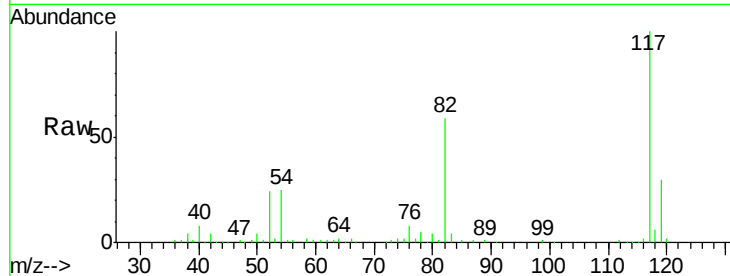
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	48.7	73.1
119	30.9	25.1	37.7

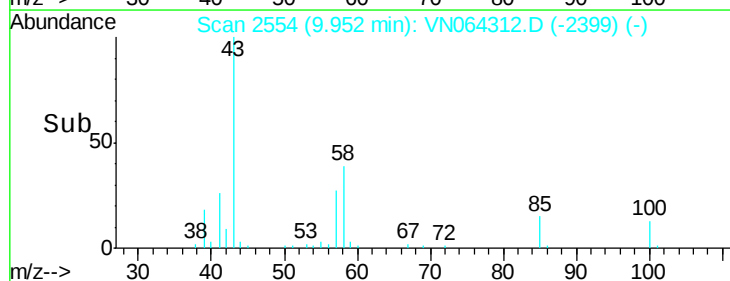
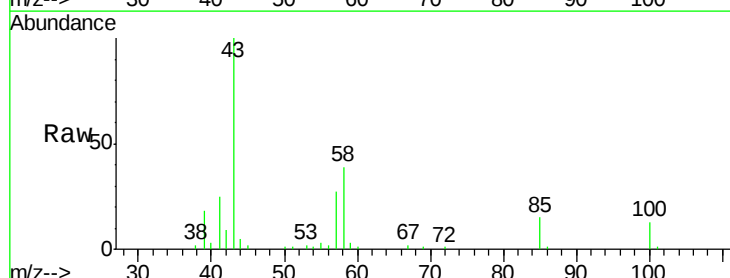
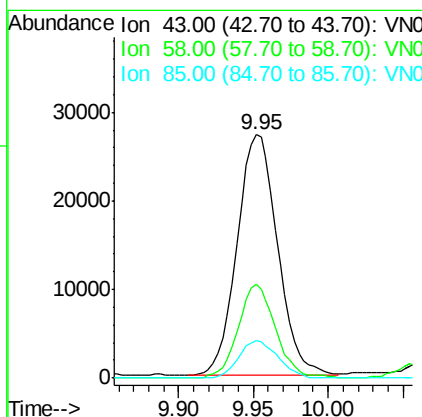
Manual Integrations
APPROVED

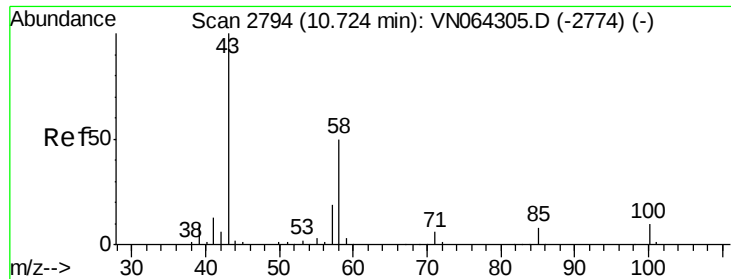
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 12.186 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.7	43.1
85	15.1	13.4	20.2





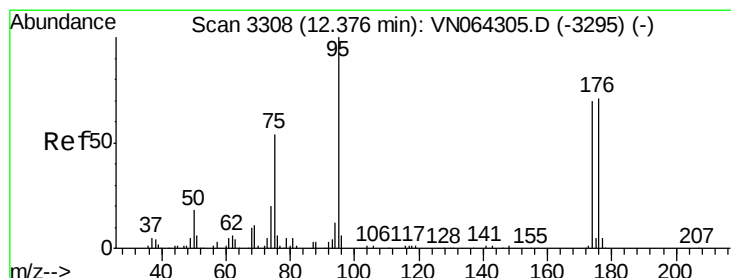
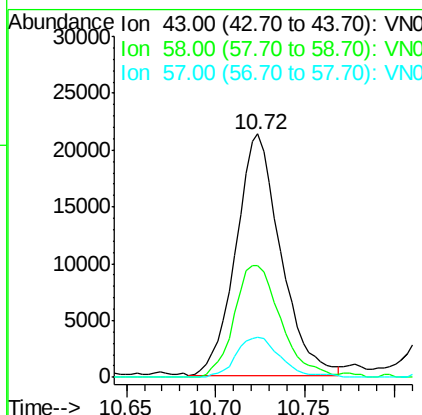
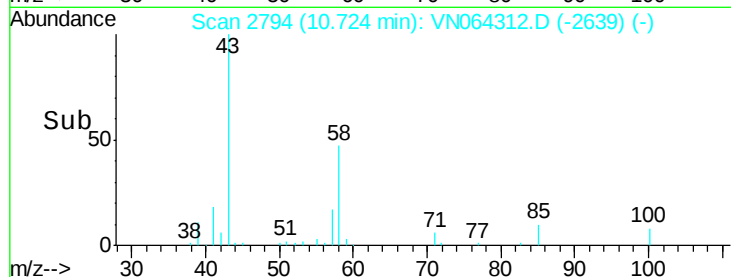
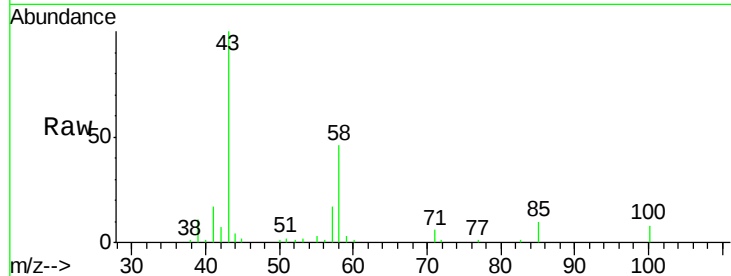
#59
2-Hexanone
Concen: 11.873 ug/l
RT: 10.72 min Scan# 2794
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.9	39.4	59.2
57	16.1	14.8	22.2

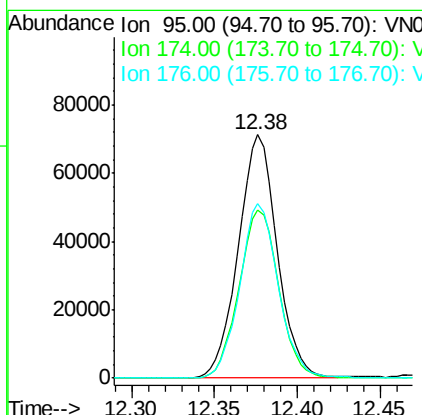
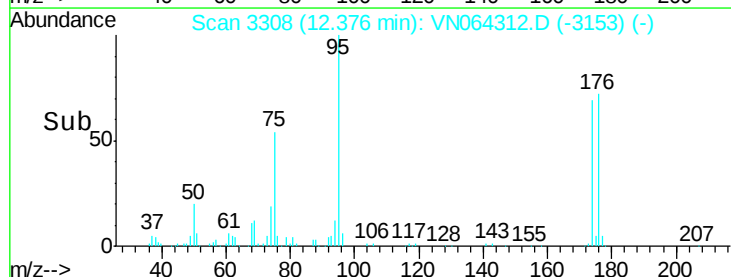
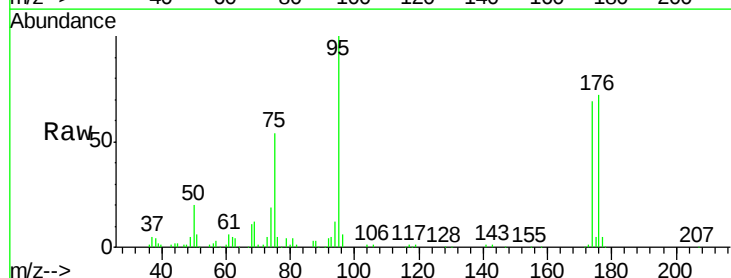
Manual Integrations
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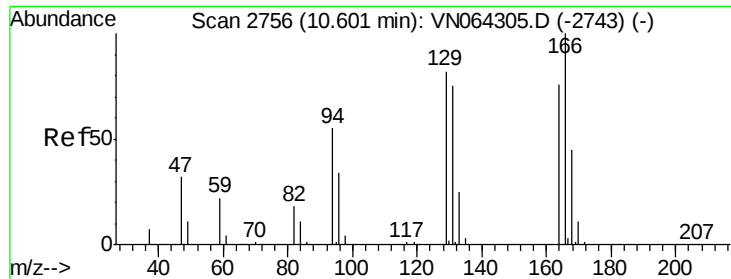
MMDadoda
10/27/2020 2:21:25 PM



#60
4-Bromofluorobenzene
Concen: 28.691 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	70.6	57.6	86.4
176	71.2	55.5	83.3





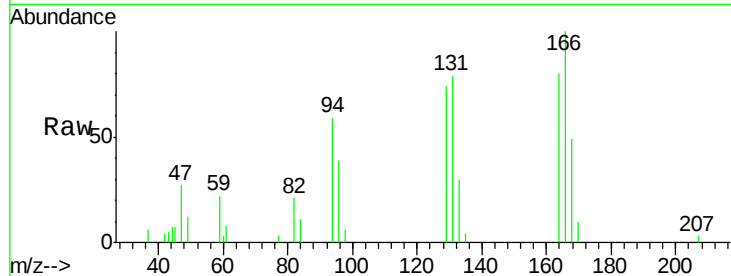
#61
Tetrachloroethene
Concen: 2.607 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
164	100		
166	120.7	105.4	158.0
129	92.7	86.4	129.6
131	98.7	78.5	117.7

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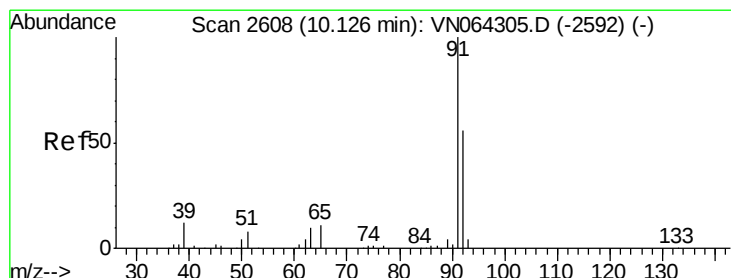
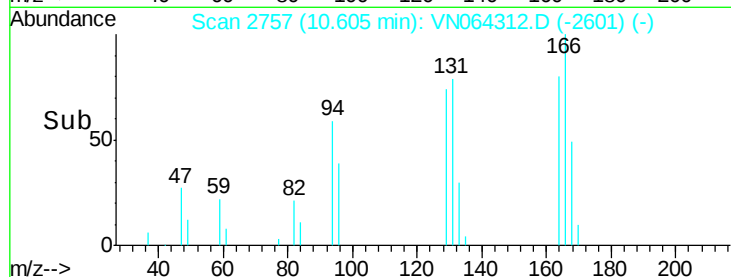
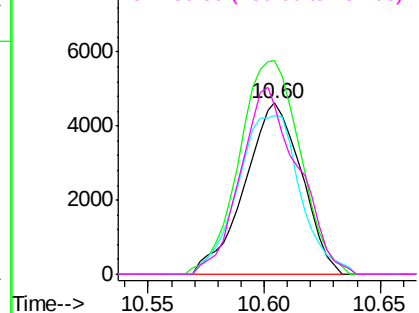
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

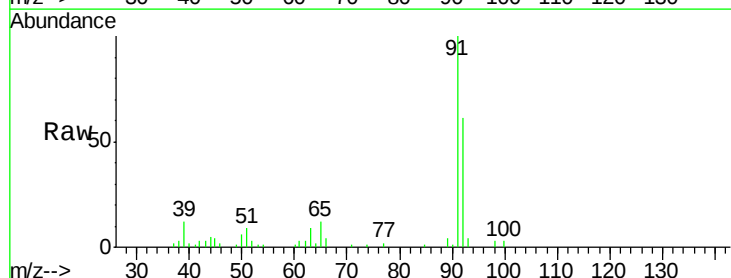
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 2.536 ug/l
RT: 10.12 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

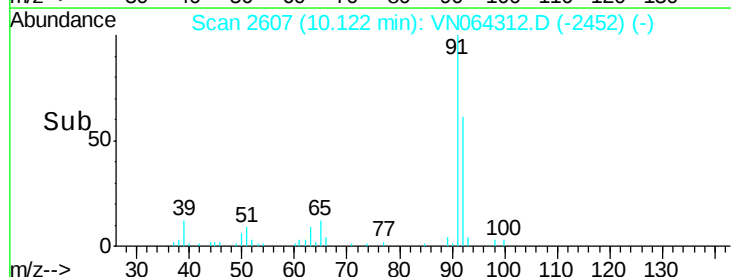
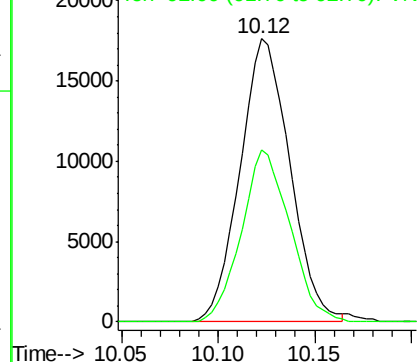
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.9	45.8	68.6

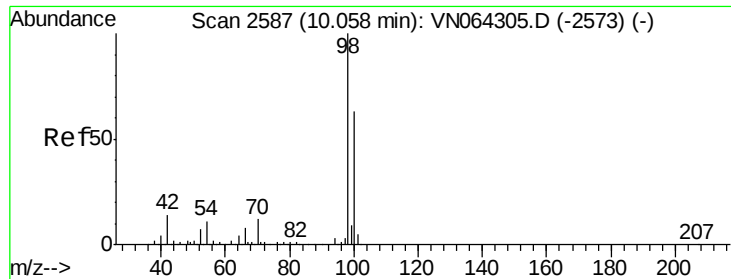


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





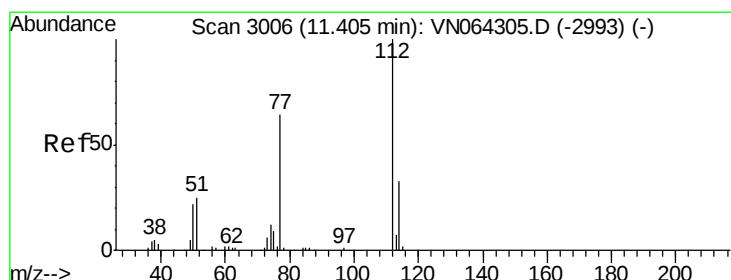
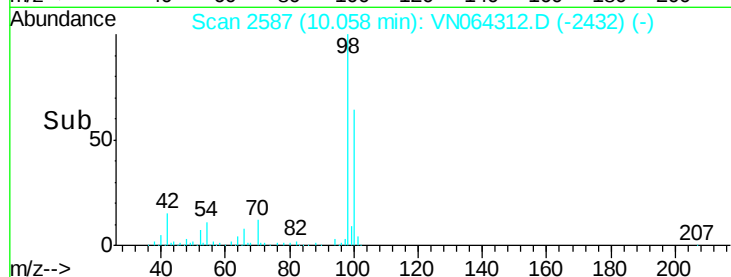
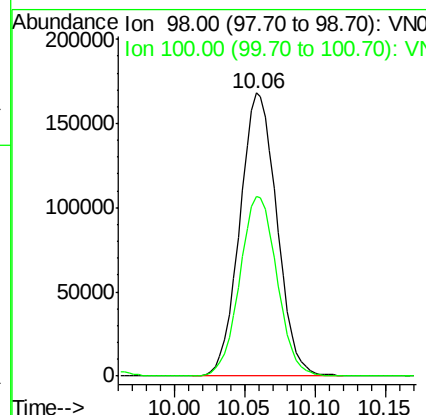
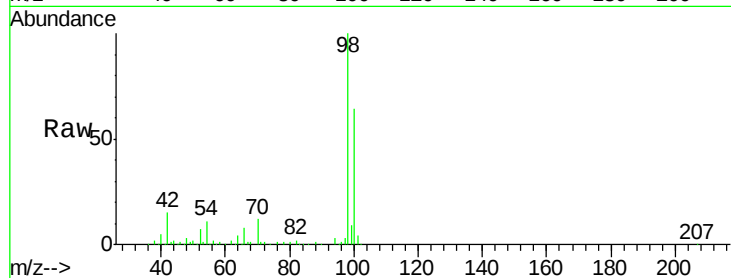
#63
Toluene-d8
Concen: 30.642 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion: 98 Resp: 309793
Ion Ratio Lower Upper
98 100
100 63.8 50.6 75.8

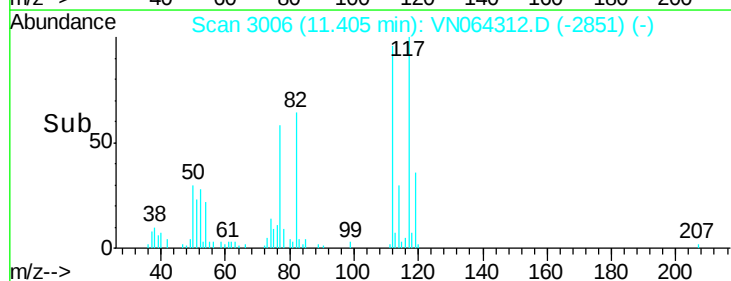
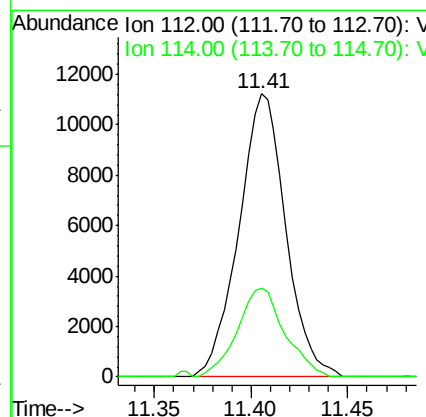
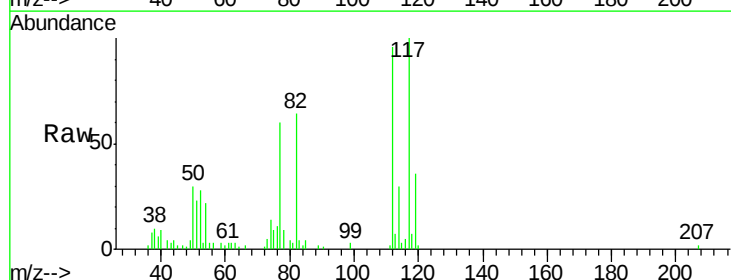
Manual Integrations
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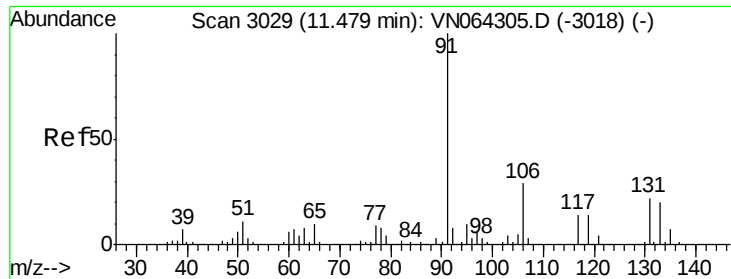
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#64
Chlorobenzene
Concen: 2.432 ug/l
RT: 11.41 min Scan# 3006
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion: 112 Resp: 18936
Ion Ratio Lower Upper
112 100
114 31.3 26.7 40.1





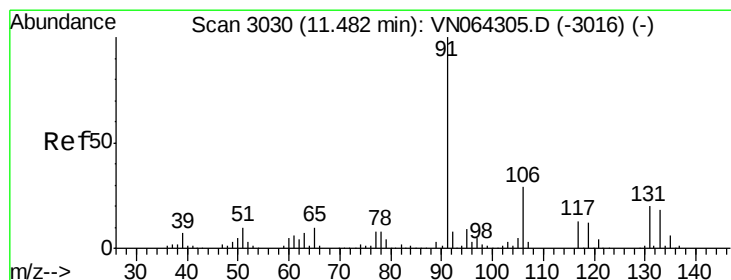
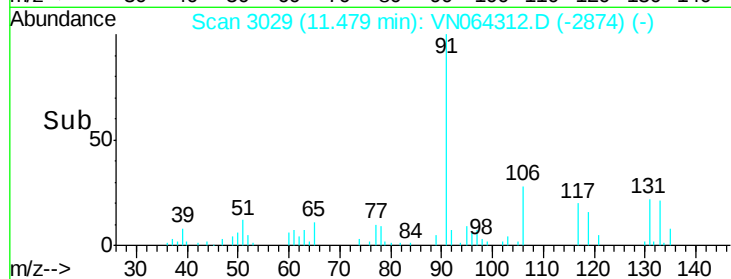
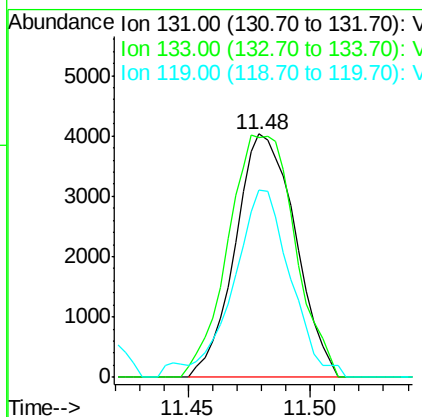
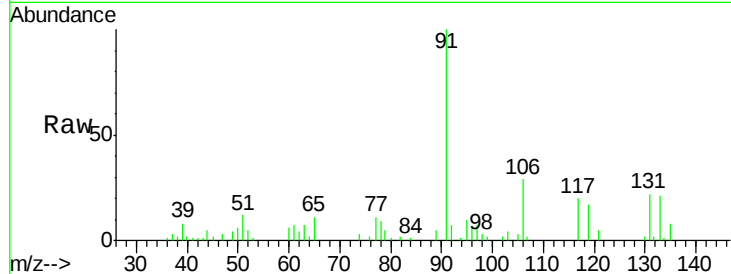
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.240 ug/l
 RT: 11.48 min Scan# 3029
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion:131 Resp: 6888
 Ion Ratio Lower Upper
 131 100
 133 57.4 0.0 183.0
 119 70.7 0.0 121.6

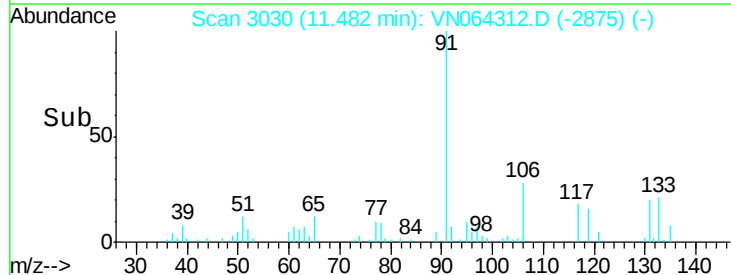
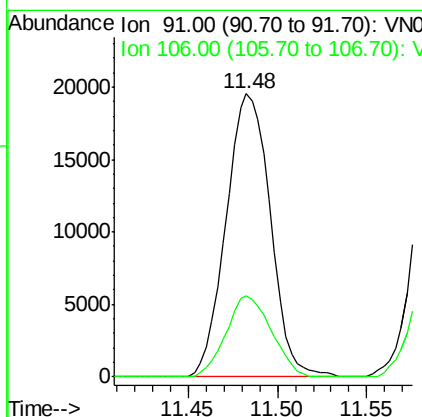
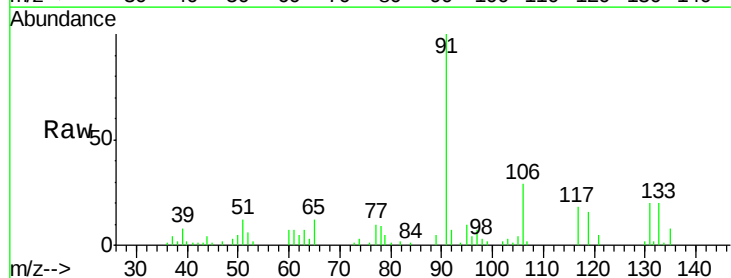
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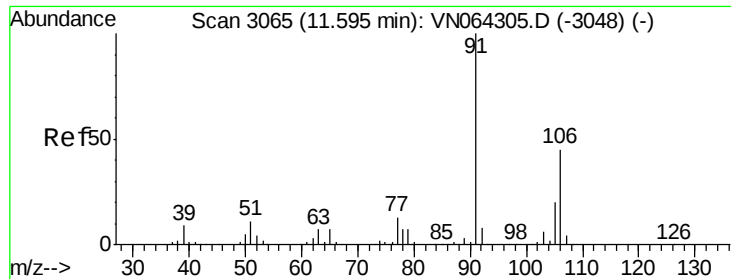
MMDadoda
 10/27/2020 2:21:25 PM



#66
 Ethyl Benzene
 Concen: 2.362 ug/l
 RT: 11.48 min Scan# 3030
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion: 91 Resp: 33712
 Ion Ratio Lower Upper
 91 100
 106 28.7 22.8 34.2





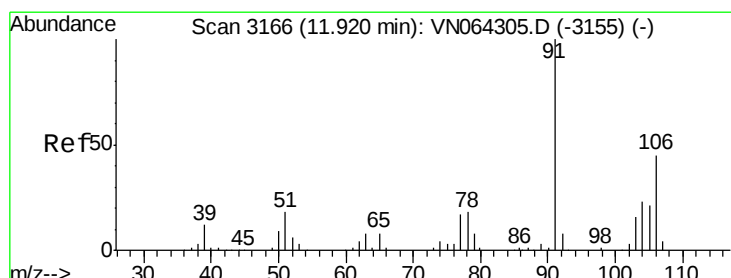
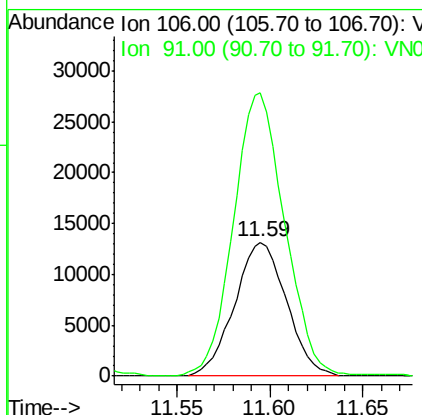
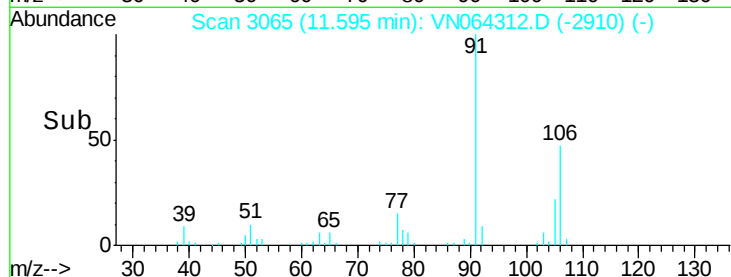
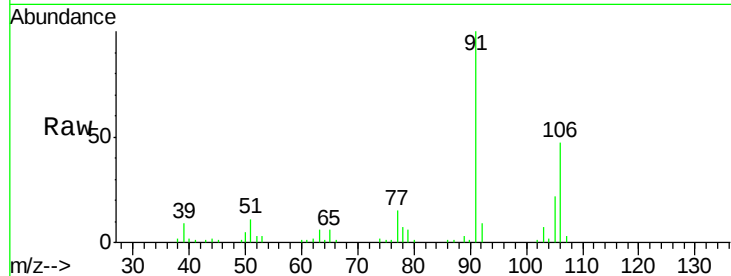
#67
m/p-Xylenes
Concen: 4.886 ug/l
RT: 11.59 min Scan# 3065
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion:106 Resp: 25607
Ion Ratio Lower Upper
106 100
91 208.8 176.2 264.2

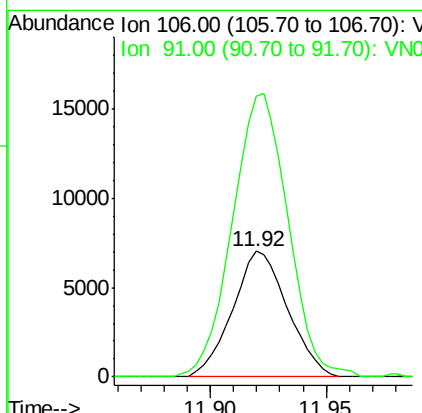
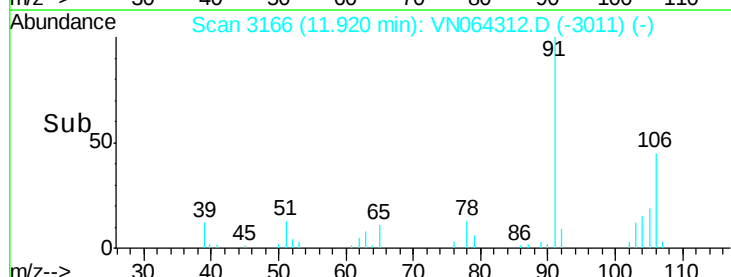
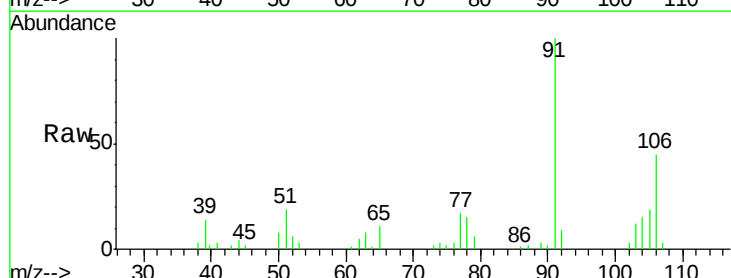
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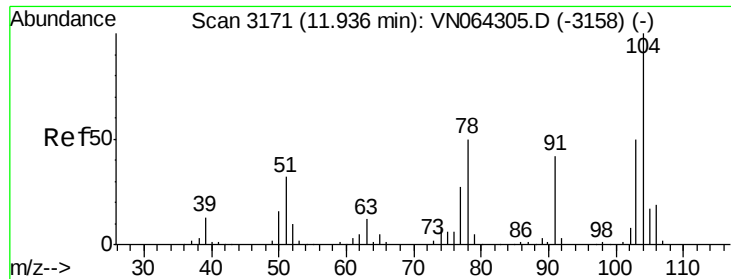
MMDadoda
10/27/2020 2:21:25 PM



#68
o-Xylene
Concen: 2.249 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion:106 Resp: 11591
Ion Ratio Lower Upper
106 100
91 228.0 112.9 338.6





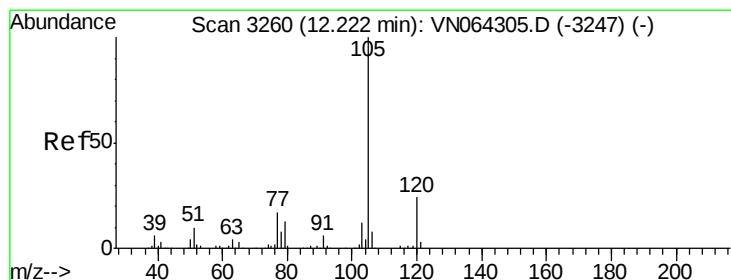
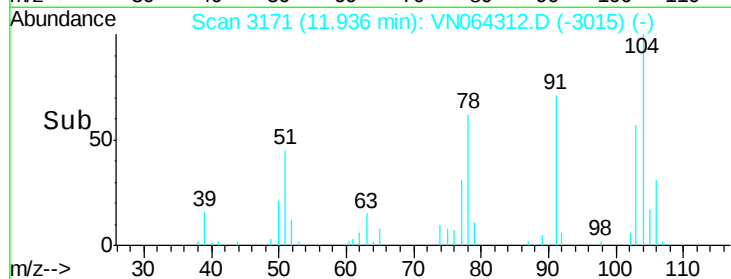
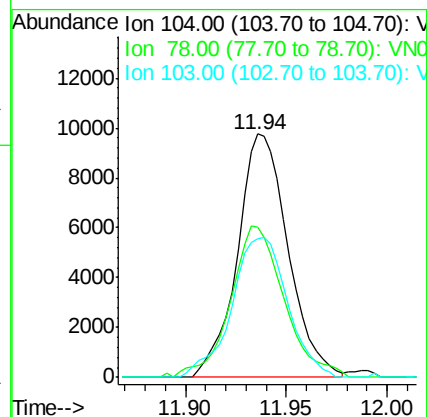
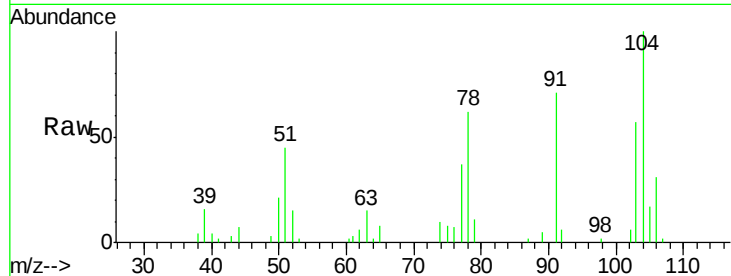
#69
Stvrene
Concen: 1.995 ug/l
RT: 11.94 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
104	100		
78	65.8	46.3	69.5
103	63.3	44.2	66.2

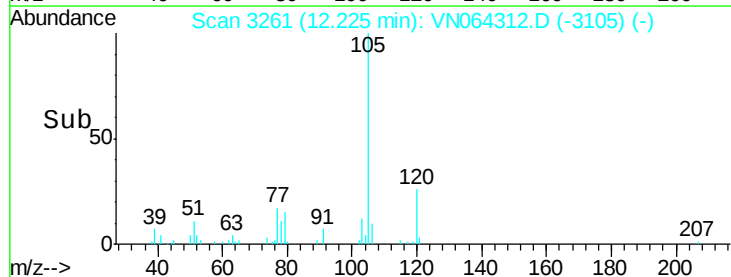
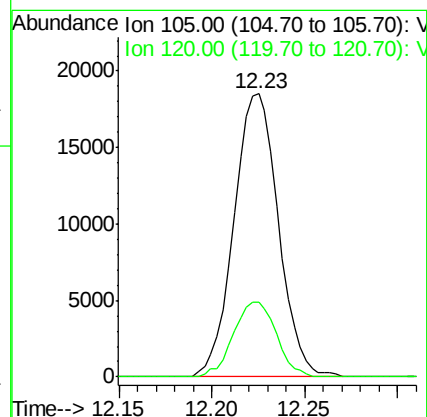
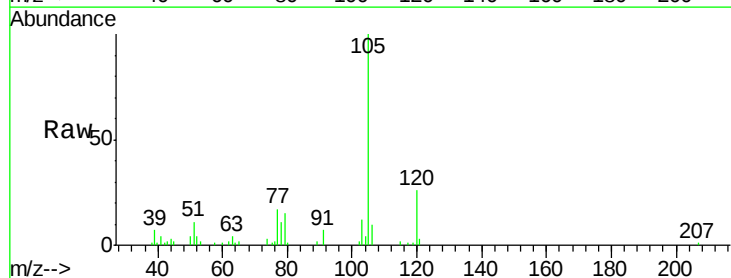
Manual Integrations
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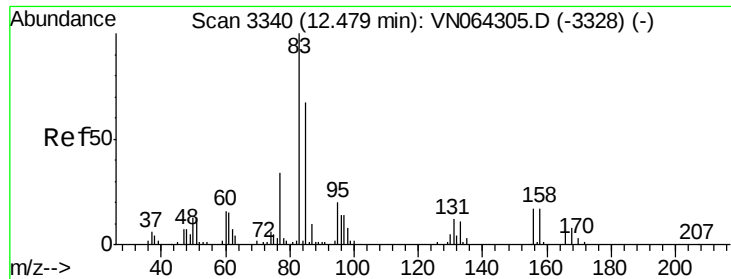
MMDadoda
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#70
Isopropylbenzene
Concen: 2.253 ug/l
RT: 12.23 min Scan# 3261
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	17.4	32.2





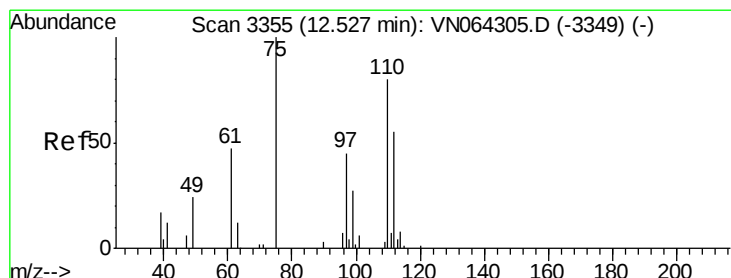
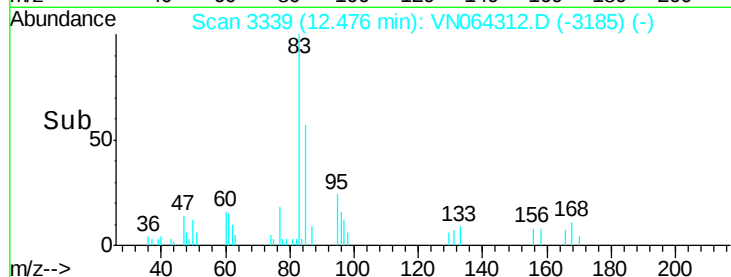
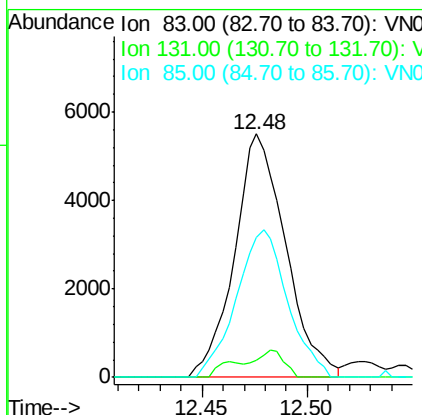
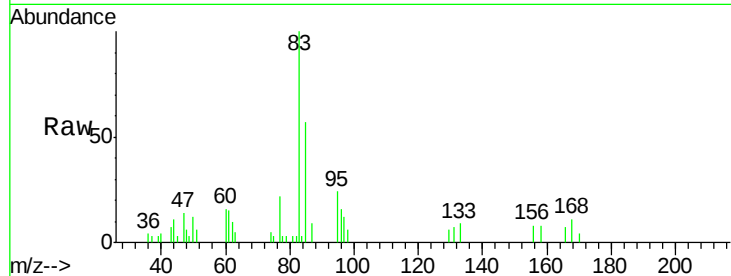
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.385 ug/l
 RT: 12.48 min Scan# 3339
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
83	100		
131	6.3	6.0	18.0
85	60.5	32.0	96.0

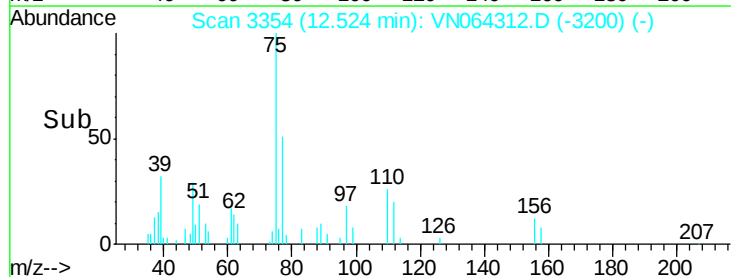
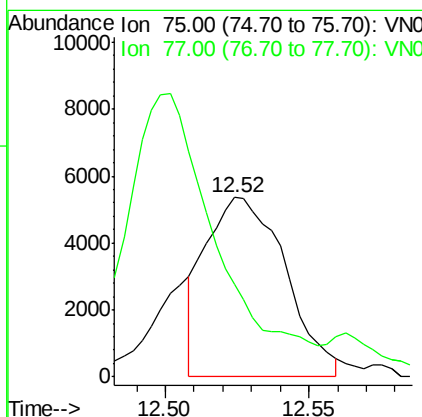
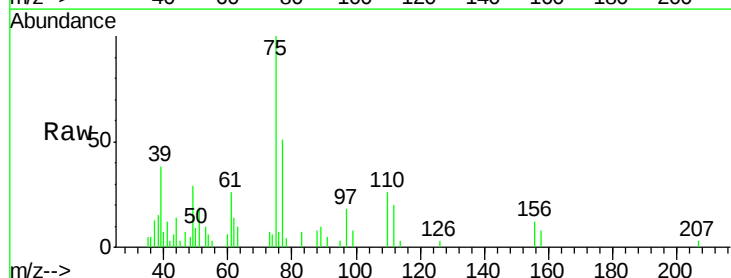
Manual Integrations
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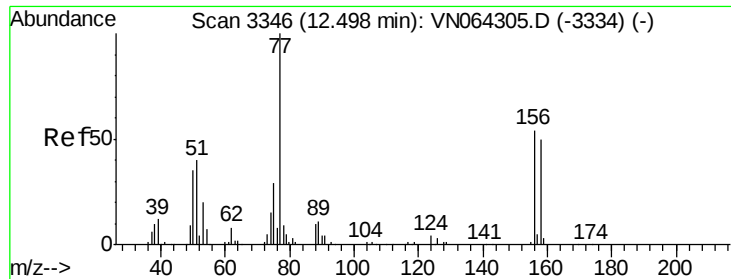
MMDadoda
 10/27/2020 2:21:25 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.497 ug/l m
 RT: 12.52 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	180.3	0.0	340.8





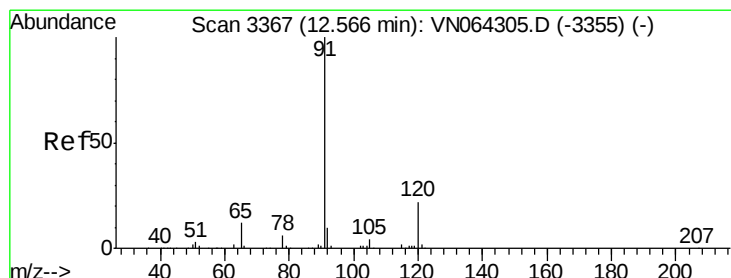
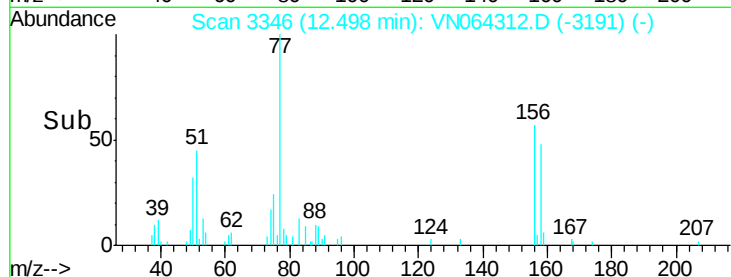
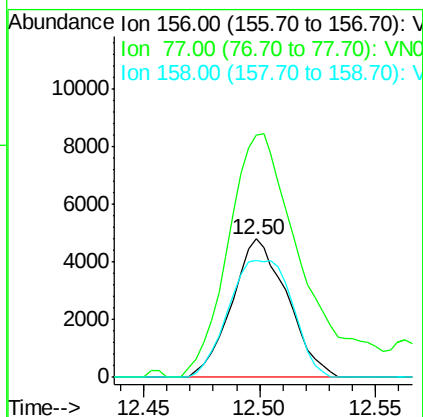
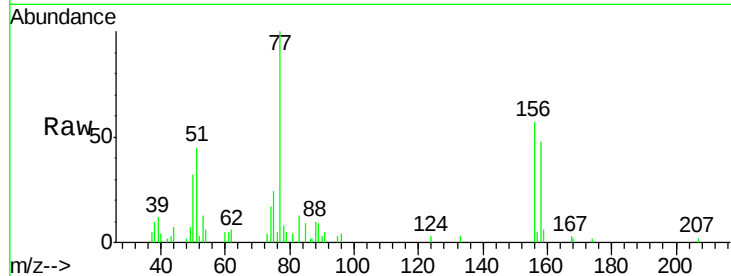
#73
Bromobenzene
Concen: 2.387 ug/l
RT: 12.50 min Scan# 3346
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
156	100		
77	233.4	0.0	449.2
158	56.8	0.0	191.0

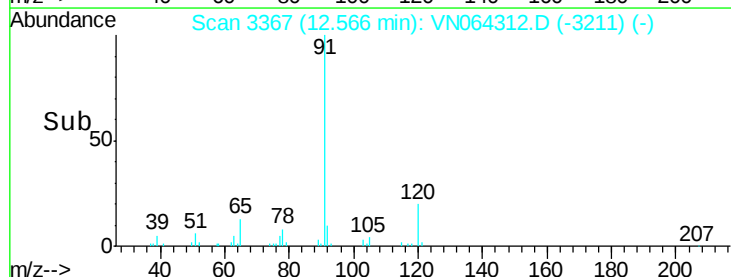
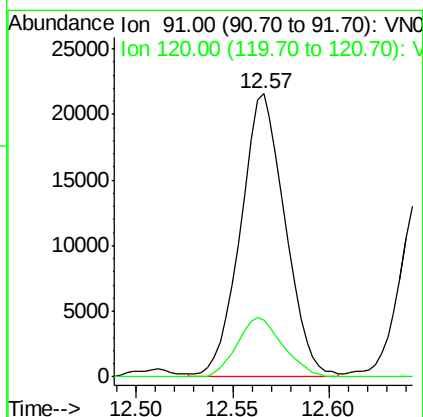
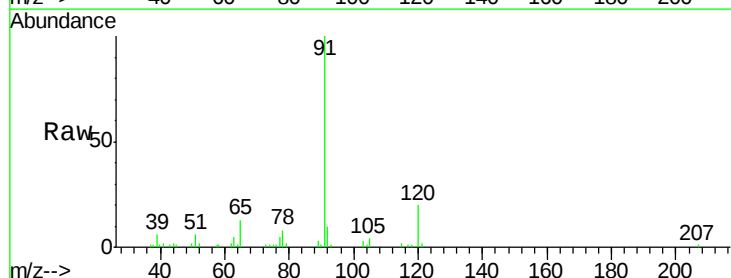
Manual Integrations
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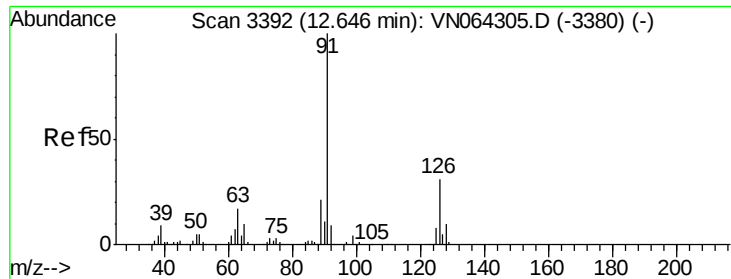
MMDadoda
10/27/2020 2:21:25 PM



#74
n-propylbenzene
Concen: 2.223 ug/l
RT: 12.57 min Scan# 3367
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.3	0.0	44.2





#75

2-Chlorotoluene

Concen: 2.372 ug/l

RT: 12.65 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion: 91 Resp: 22847

Ion Ratio Lower Upper

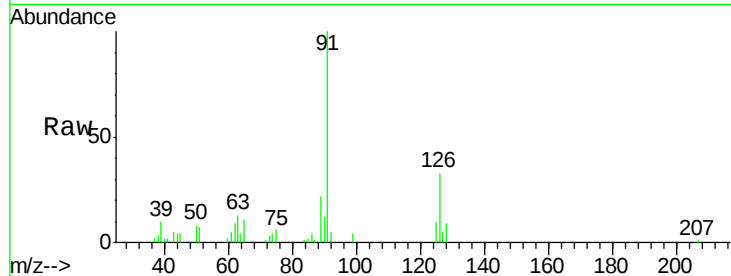
91 100

126 31.2 0.0 62.0

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN064312.D (-3237) (-)

Ion 126.00 (125.70 to 126.70): VN064312.D (-3237) (-)

25000

20000

15000

10000

5000

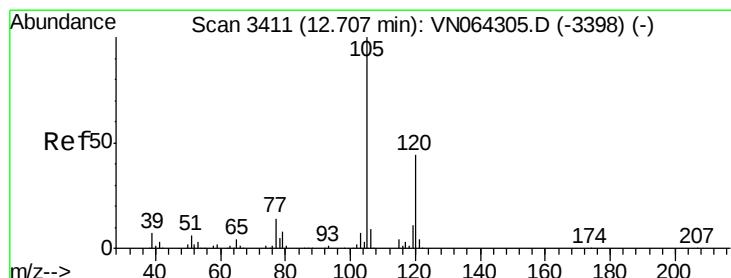
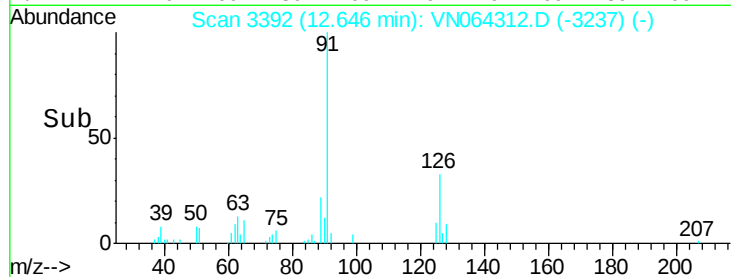
0

12.60

12.65

12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 2.275 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN064312.D

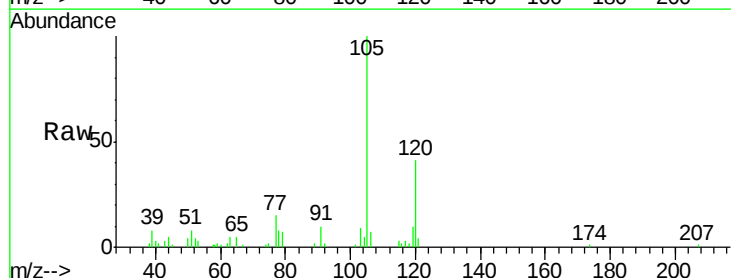
Acq: 26 Oct 2020 19:51

Tgt Ion: 105 Resp: 26290

Ion Ratio Lower Upper

105 100

120 41.7 0.0 89.8



Abundance Ion 105.00 (104.70 to 105.70): VN064312.D (-3256) (-)

Ion 120.00 (119.70 to 120.70): VN064312.D (-3256) (-)

20000

15000

10000

5000

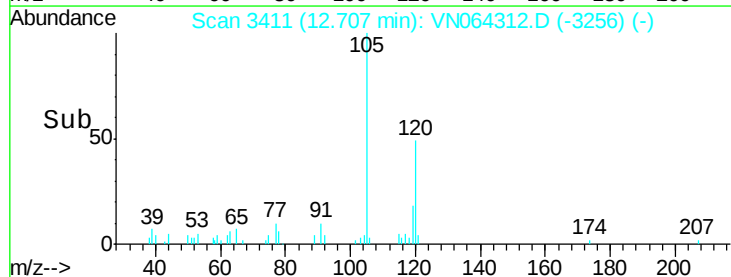
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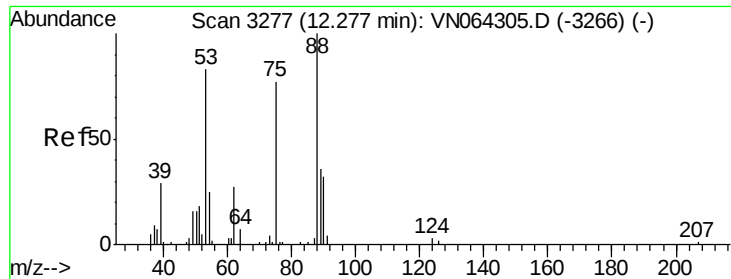
12.65

12.70

12.75

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 2.216 ug/l

RT: 12.28 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

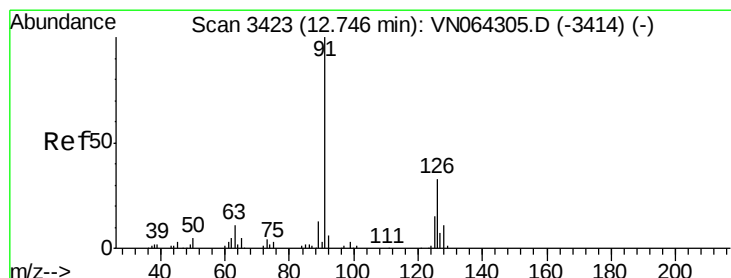
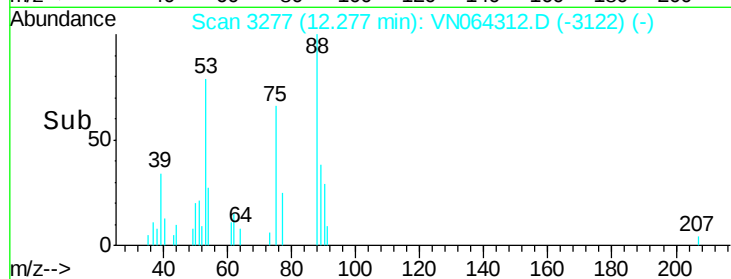
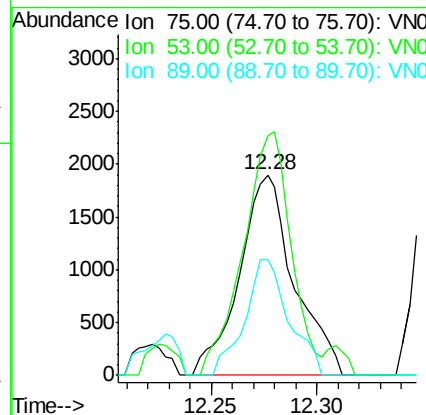
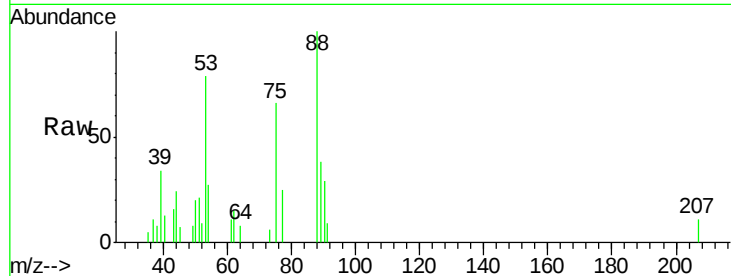
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	75	Resp:	3431
Ion	Ratio	Lower	Upper
75	100		
53	119.4	51.0	153.0
89	57.9	24.8	74.3

Manual Integrations
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#78

4-Chlorotoluene

Concen: 2.185 ug/l

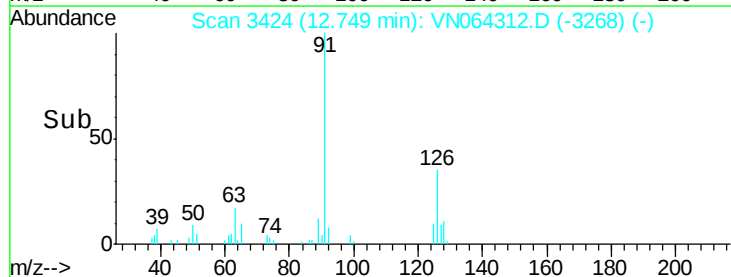
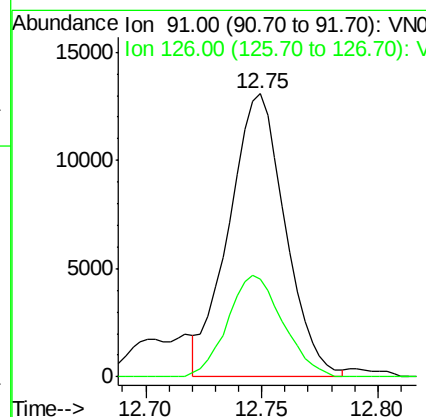
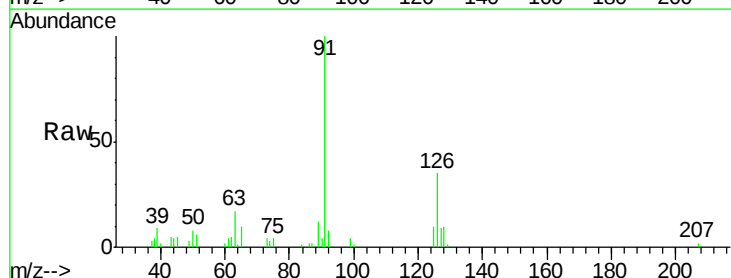
RT: 12.75 min Scan# 3424

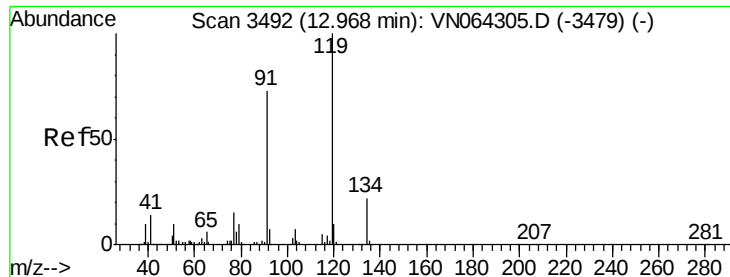
Delta R.T. 0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	91	Resp:	22026
Ion	Ratio	Lower	Upper
91	100		
126	35.2	0.0	62.4





#79

tert-butylbenzene

Concen: 2.152 ug/l

RT: 12.97 min Scan# 3492

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

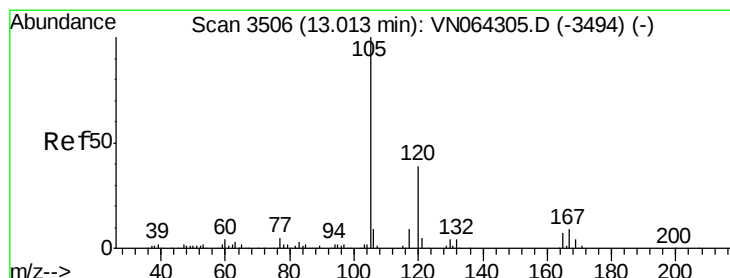
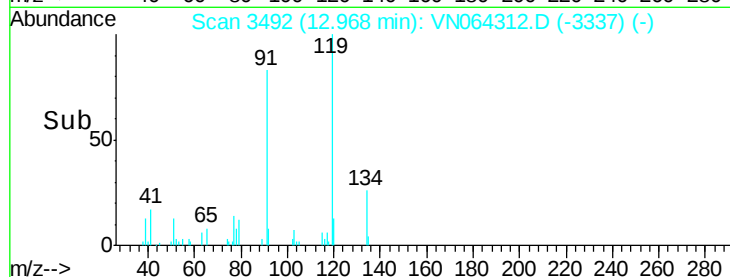
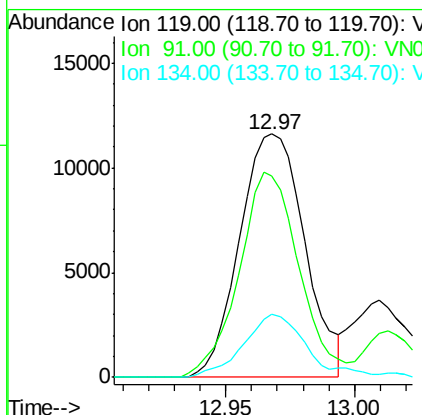
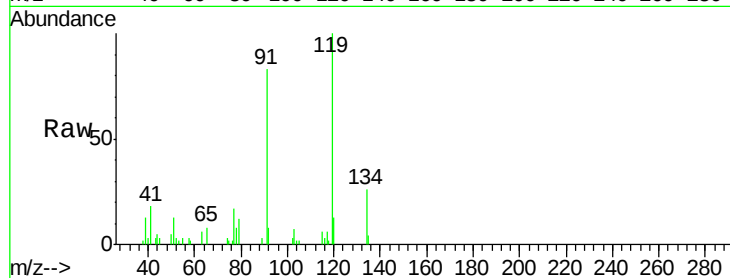
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	119	Resp:	20499
Ion Ratio	Lower	Upper	
119	100		
91	77.4	0.0	146.8
134	23.4	0.0	48.6

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#80

1,2,4-Trimethylbenzene

Concen: 2.249 ug/l

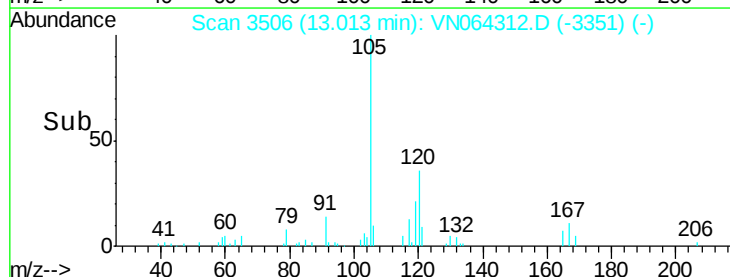
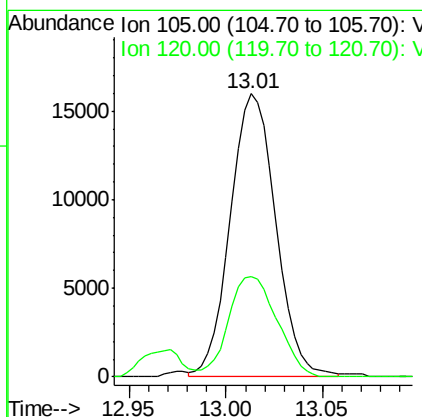
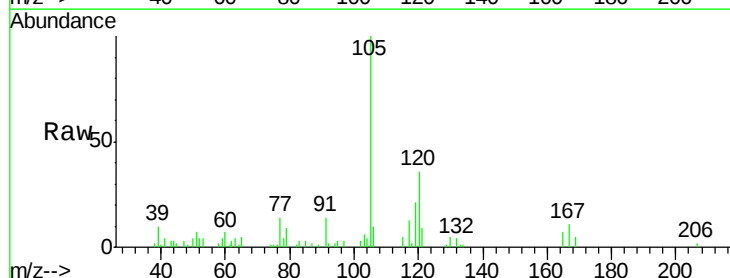
RT: 13.01 min Scan# 3506

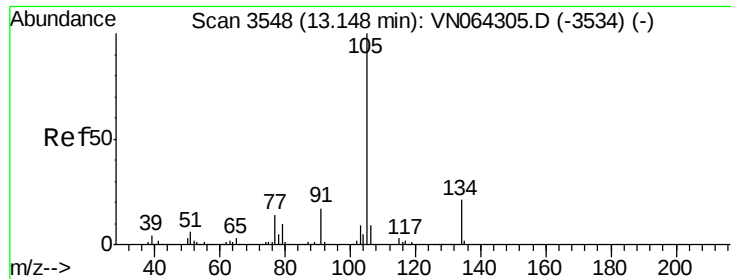
Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	105	Resp:	26222
Ion Ratio	Lower	Upper	
105	100		
120	37.9	0.0	87.0





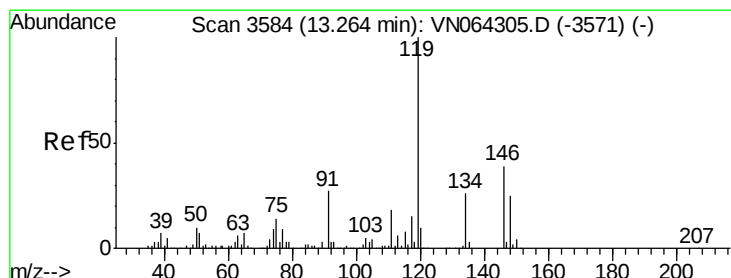
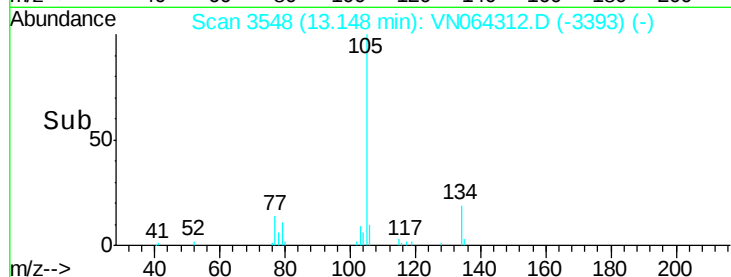
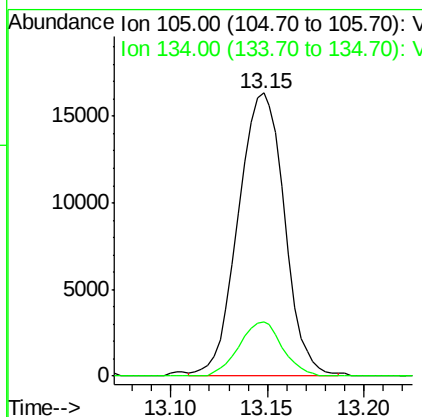
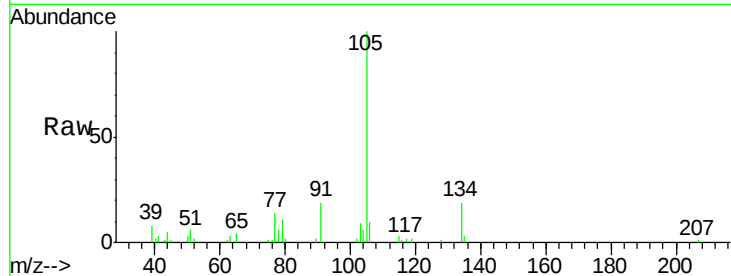
#81
 sec-Butylbenzene
 Concen: 2.198 ug/l
 RT: 13.15 min Scan# 3548
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.0	0.0	38.4

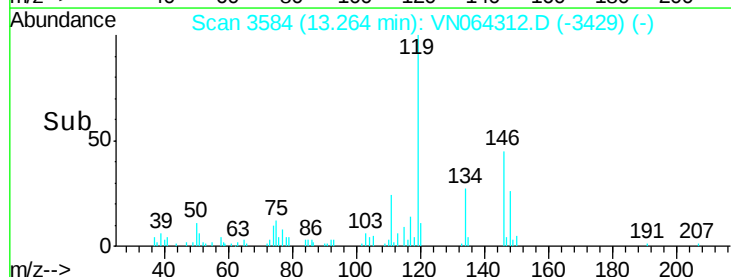
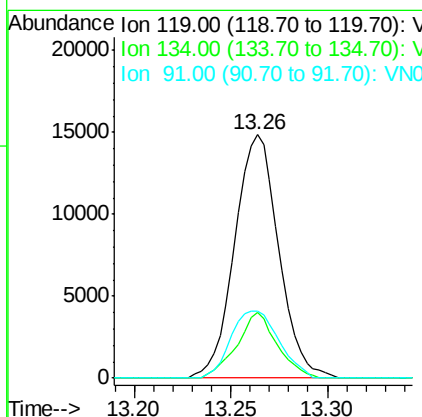
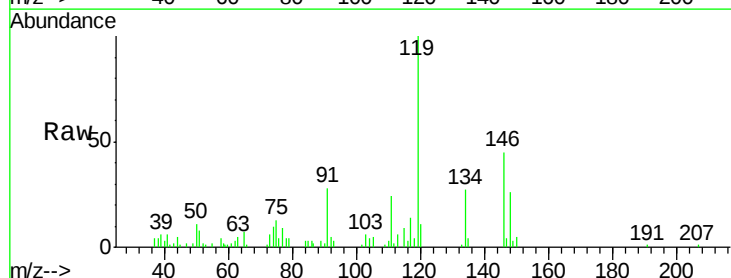
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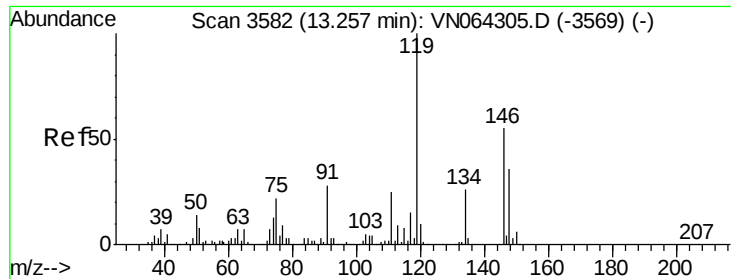
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#82
 p-Isopropyltoluene
 Concen: 2.081 ug/l
 RT: 13.26 min Scan# 3584
 Delta R.T. -0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.6	0.0	52.2
91	30.2	0.0	56.0





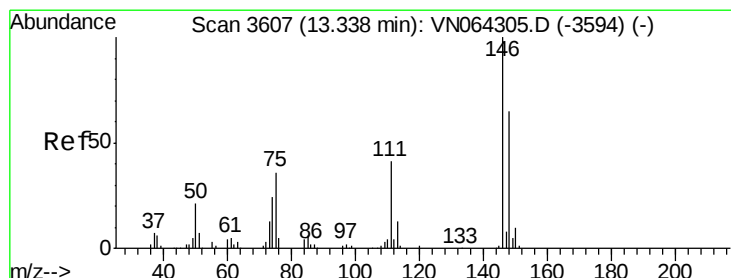
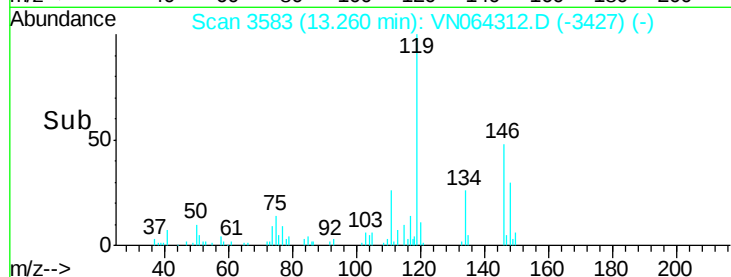
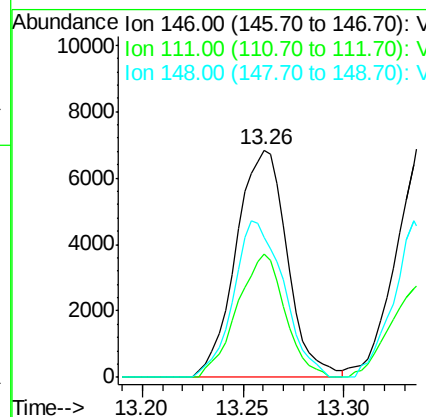
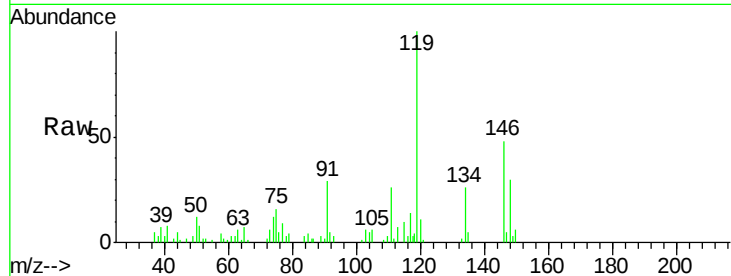
#83
 1,3-Dichlorobenzene
 Concen: 2.090 ug/l
 RT: 13.26 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	22.5	67.5
148	67.2	32.5	97.5

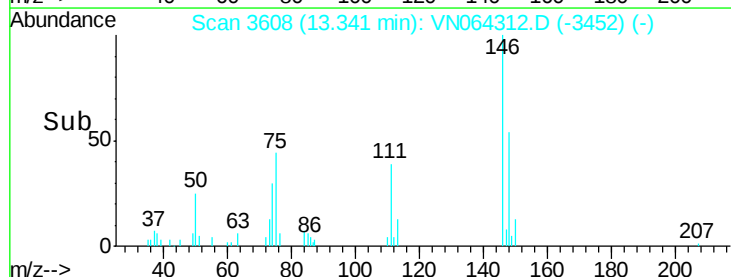
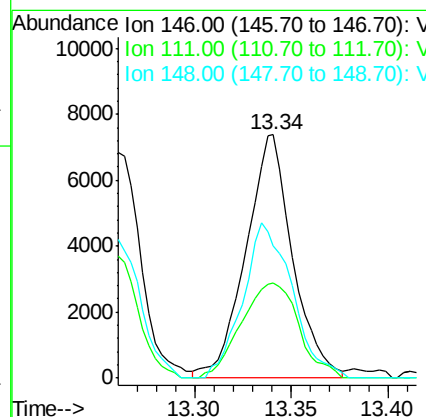
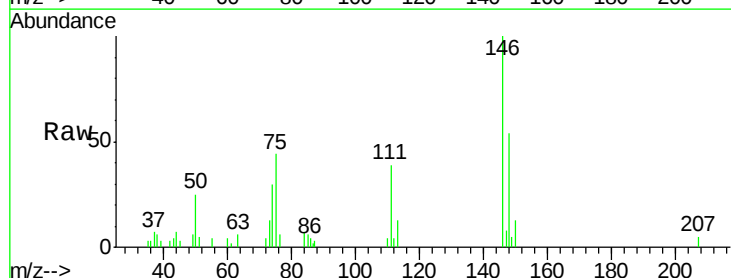
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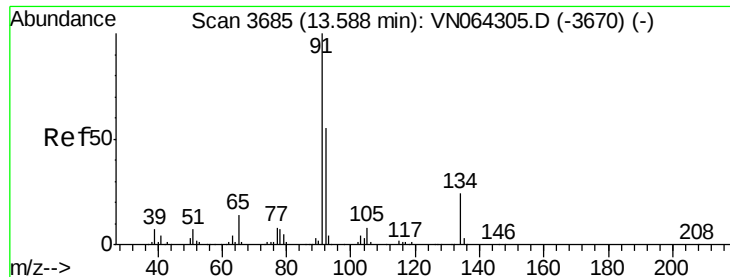
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#84
 1,4-Dichlorobenzene
 Concen: 2.124 ug/l
 RT: 13.34 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VN064312.D
 Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	21.6	64.8
148	67.2	32.4	97.0





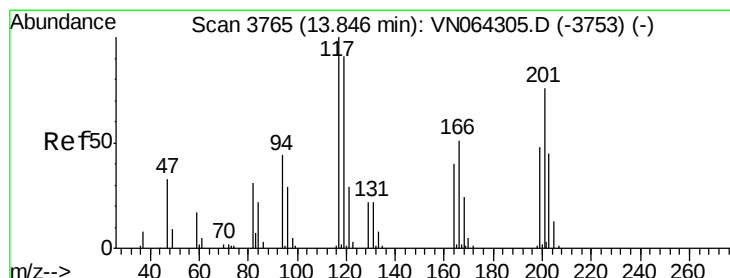
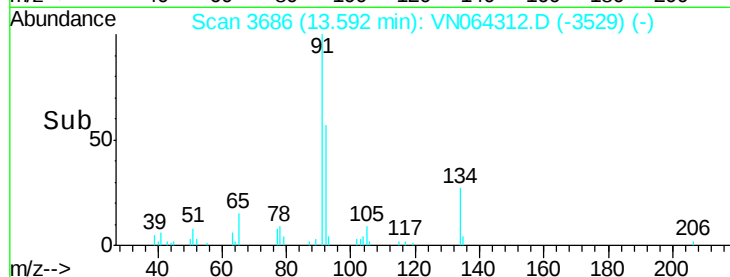
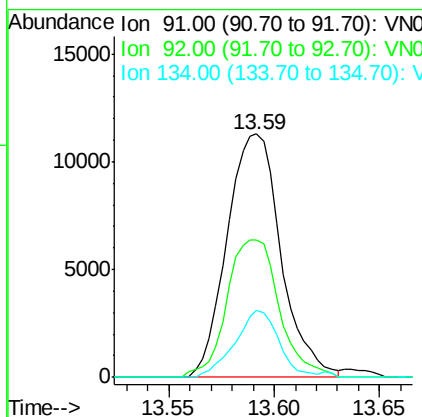
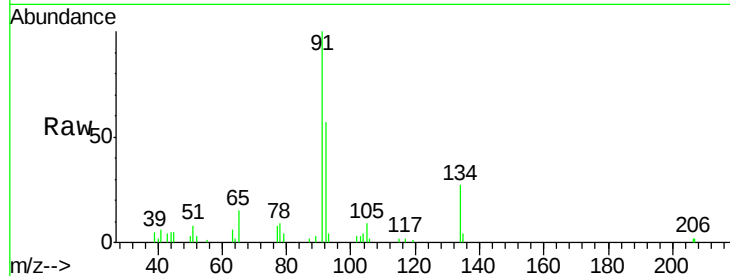
#85
n-Butylbenzene
Concen: 2.026 ug/l
RT: 13.59 min Scan# 3686
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	20011		
92	55.0		0.0	106.0
134	22.5		0.0	46.4

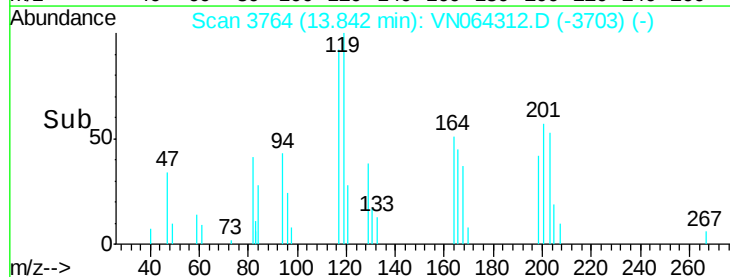
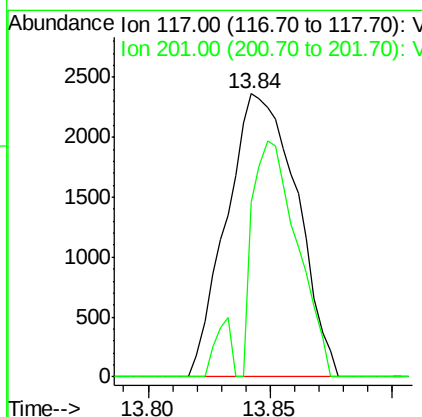
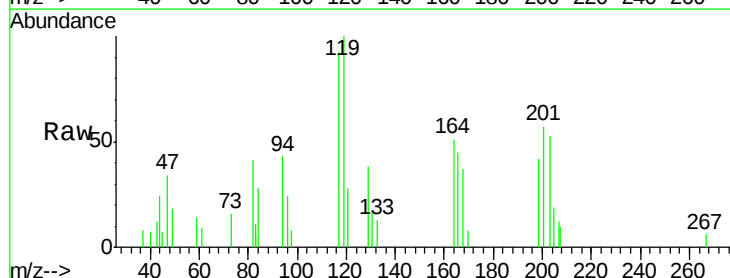
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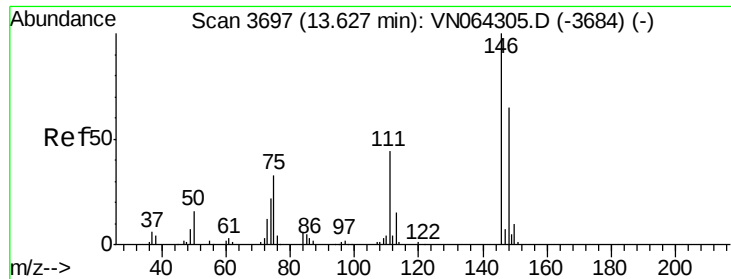
MMDadoda
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#86
Hexachloroethane
Concen: 2.232 ug/l
RT: 13.84 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4714		
201	52.7		39.6	118.7





#87

1,2-Dichlorobenzene

Concen: 2.116 ug/l

RT: 13.63 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Instrument :

MSVOA_N

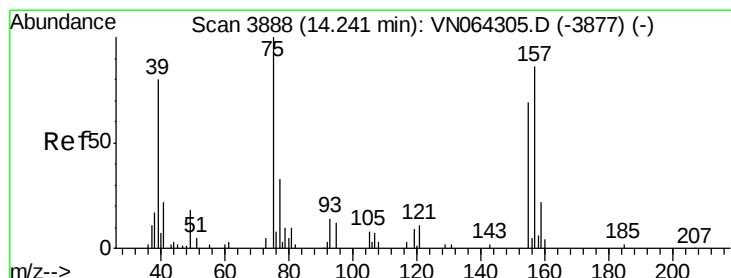
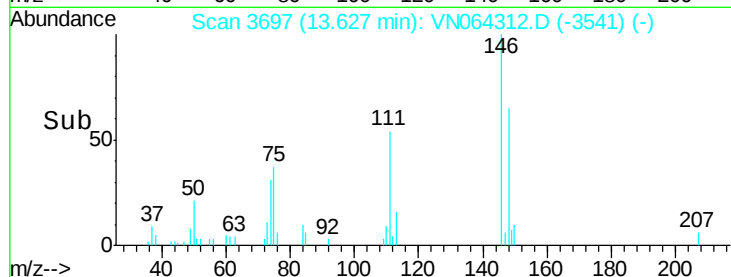
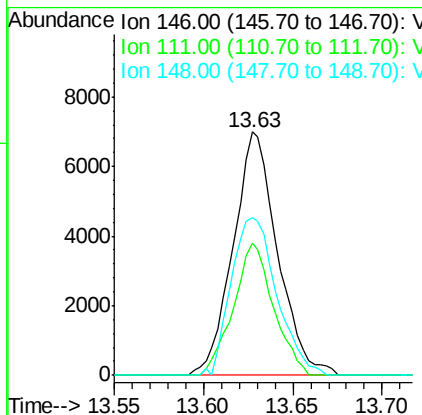
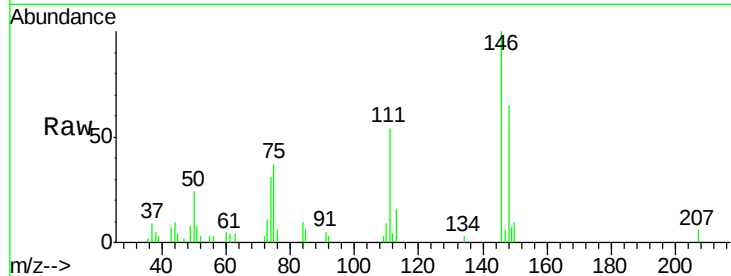
ClientSampleId :

MDL-WATER-03-QT4-2020

Tot Ion:	146	Resp:	12127
Ion Ratio	Lower	Upper	
146	100		
111	49.0	22.3	66.8
148	66.0	31.6	95.0

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#88

1,2-Dibromo-3-Chloropropane

Concen: 2.348 ug/l

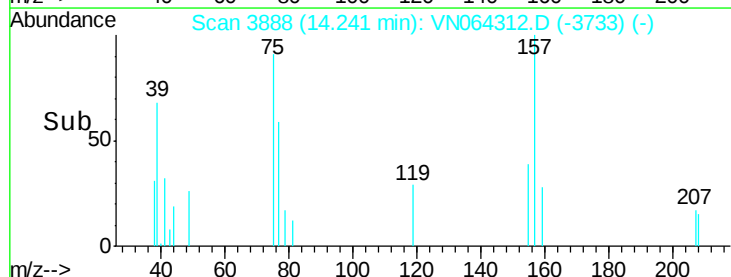
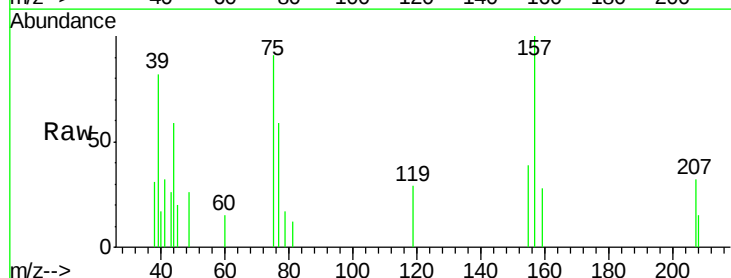
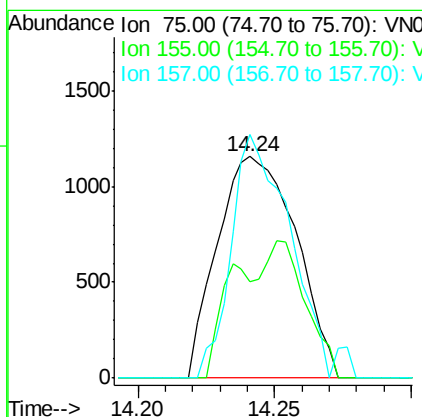
RT: 14.24 min Scan# 3888

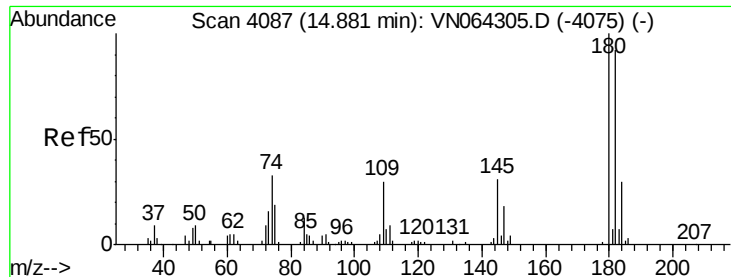
Delta R.T. -0.00 min

Lab File: VN064312.D

Acq: 26 Oct 2020 19:51

Tgt Ion:	75	Resp:	2311
Ion Ratio	Lower	Upper	
75	100		
155	20.1	55.8	83.8#
157	81.7	72.1	108.1





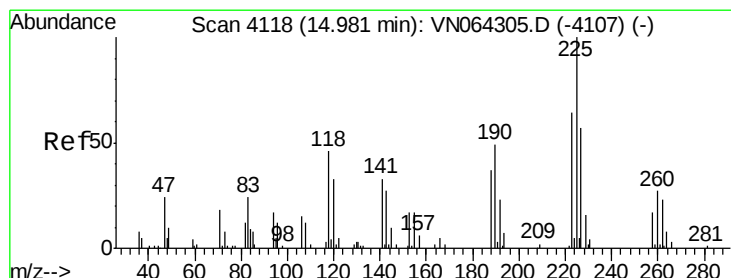
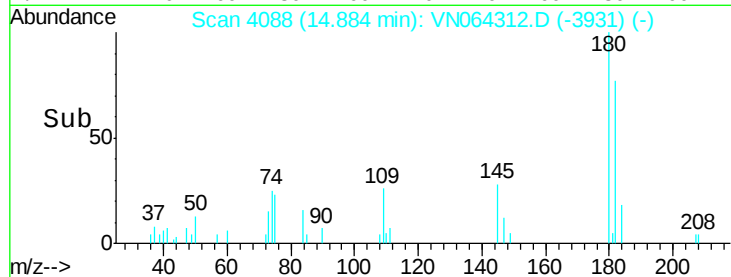
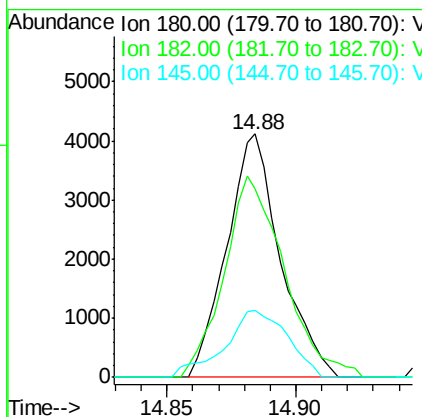
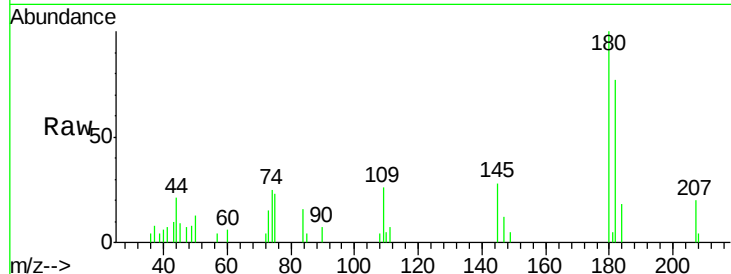
#89
1,2,4-Trichlorobenzene
Concen: 1.834 ug/l
RT: 14.88 min Scan# 4088
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.6	114.8
145	32.3	25.4	38.0

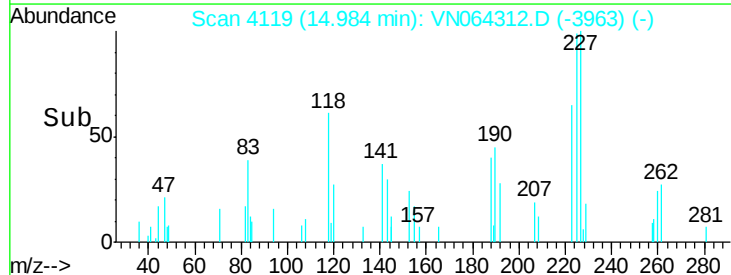
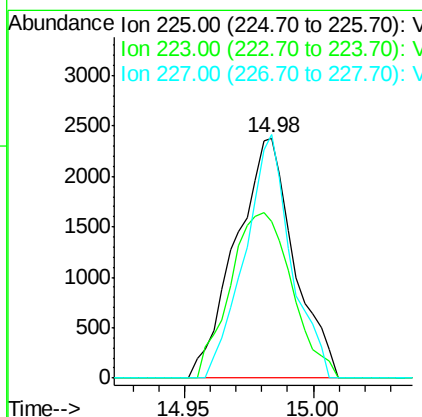
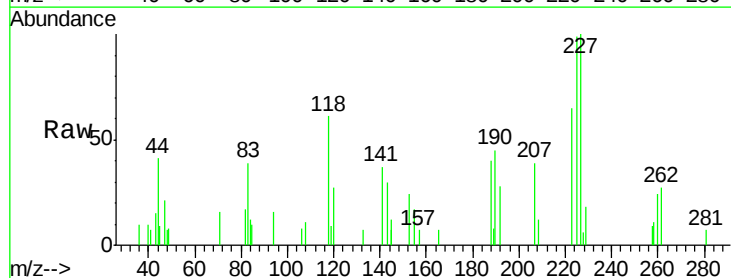
Manual Integrations
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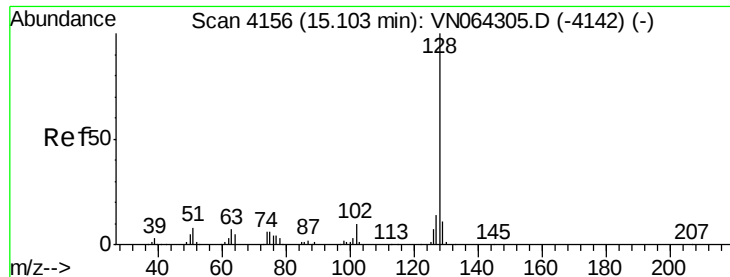
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#90
Hexachlorobutadiene
Concen: 2.150 ug/l
RT: 14.98 min Scan# 4119
Delta R.T. 0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.9	0.0	122.0
227	80.2	0.0	118.0





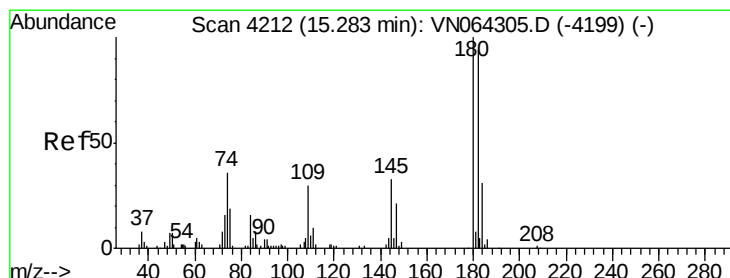
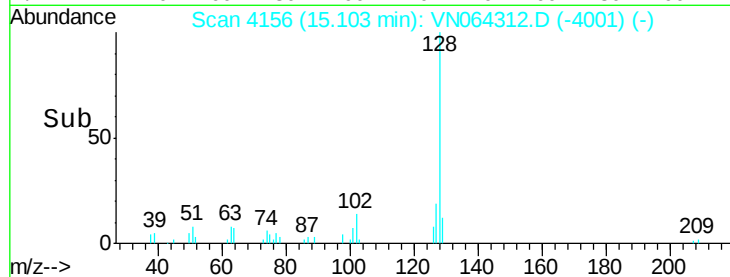
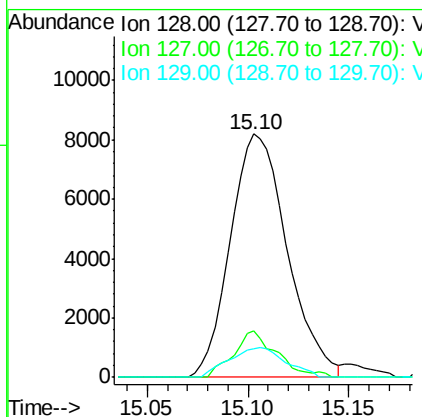
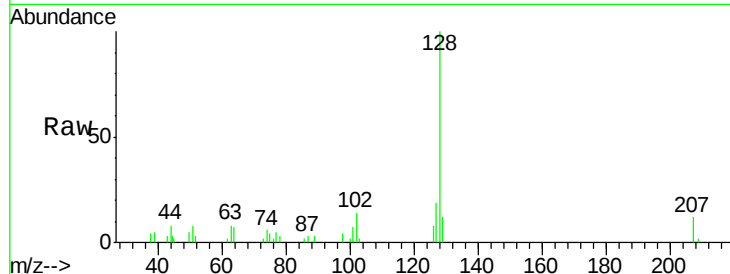
#91
Naphthalene
Concen: 1.646 ug/l
RT: 15.10 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.8	16.2
129	12.1	8.8	13.2

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 1.846 ug/l
RT: 15.28 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN064312.D
Acq: 26 Oct 2020 19:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	82.9	0.0	190.0
145	30.5	0.0	67.8

