

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
 Data File : VN056931.D
 Acq On : 25 Jul 2019 20:04
 Operator : JC/SP
 Sample : K3591-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Manual Integrations
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 7/26/2019 3:37:39 PM

Quant Time: Jul 26 05:25:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 05:13:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	448152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	690730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	574916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	172253	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	232172	50.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.14%	
35) Dibromofluoromethane	7.57	113	210849	47.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.68%	
50) Toluene-d8	10.08	98	782292	46.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.50%	
62) 4-Bromofluorobenzene	12.40	95	215359	39.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	78.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	9201	1.905	ug/l	97
3) Chloromethane	2.05	50	13347	2.311	ug/l	93
4) Vinyl Chloride	2.18	62	12374	2.275	ug/l	96
5) Bromomethane	2.55	94	10694	3.251	ug/l	98
6) Chloroethane	2.69	64	7161	2.372	ug/l	94
7) Trichlorofluoromethane	3.00	101	17006	2.399	ug/l	91
8) Diethyl Ether	3.40	74	6750	2.543	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	10739	2.466	ug/l	96
10) Methyl Iodide	3.94	142	11646	1.820	ug/l #	93
11) Tert butyl alcohol	4.77	59	12219m	18.265	ug/l	
12) 1,1-Dichloroethene	3.72	96	9825	2.336	ug/l	98
13) Acrolein	3.60	56	4866	12.979	ug/l	97
14) Allyl chloride	4.31	41	15323	2.246	ug/l	97
15) Acrylonitrile	4.98	53	22040	11.448	ug/l	99
16) Acetone	3.80	43	18492	11.677	ug/l	94
17) Carbon Disulfide	4.03	76	24998	2.207	ug/l	99
18) Methyl Acetate	4.31	43	13826	2.494	ug/l #	74
19) Methyl tert-butyl Ether	5.02	73	29472	2.383	ug/l	91
20) Methylene Chloride	4.53	84	12751	2.543	ug/l	93
21) trans-1,2-Dichloroethene	5.03	96	10757m	2.390	ug/l	
22) Diisopropyl ether	5.94	45	34188	2.460	ug/l	96
23) Vinyl Acetate	5.88	43	108946	11.381	ug/l	99
24) 1,1-Dichloroethane	5.83	63	20307	2.487	ug/l	98
25) 2-Butanone	6.83	43	27121m	11.126	ug/l	
26) 2,2-Dichloropropane	6.80	77	13287	2.218	ug/l	96
27) cis-1,2-Dichloroethene	6.81	96	11737	2.285	ug/l	94
28) Bromochloromethane	7.18	49	8730	2.317	ug/l #	97
29) Tetrahydrofuran	7.20	42	18988	11.888	ug/l	97
30) Chloroform	7.36	83	20961	2.493	ug/l	92
31) Cyclohexane	7.64	56	24157	3.040	ug/l #	57
32) 1,1,1-Trichloroethane	7.55	97	16217	2.408	ug/l	95
36) 1,1-Dichloropropene	7.78	75	14479	2.293	ug/l	97
37) Ethyl Acetate	6.92	43	8871	1.734	ug/l #	94
38) Carbon Tetrachloride	7.76	117	13654	2.273	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	17409	2.262	ug/l	96
40) Benzene	8.03	78	47178	2.396	ug/l	99
41) Methacrylonitrile	7.16	41	4907	2.180	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	15167	2.494	ug/l	98
43) Isopropyl Acetate	8.15	43	19069	2.265	ug/l #	90
44) Trichloroethene	8.83	130	12018	2.237	ug/l	94
45) 1,2-Dichloropropane	9.11	63	12356	2.335	ug/l	89
46) Dibromomethane	9.20	93	7209	2.260	ug/l	98
47) Bromodichloromethane	9.39	83	13279	2.131	ug/l	96
48) Methyl methacrylate	9.19	41	9351	2.314	ug/l	92
49) 1,4-Dioxane	9.19	88	4053	47.893	ug/l #	70
51) 4-Methyl-2-Pentanone	9.98	43	57044	11.396	ug/l	95
52) Toluene	10.15	92	27290	2.311	ug/l	97
53) t-1,3-Dichloropropene	10.37	75	12736	2.028	ug/l	94
54) cis-1,3-Dichloropropene	9.83	75	15073	2.038	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	10787	2.279	ug/l	96
56) Ethyl methacrylate	10.42	69	13363	2.100	ug/l	99
57) 1,3-Dichloropropane	10.70	76	18546	2.394	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	25157	10.029	ug/l	99
59) 2-Hexanone	10.74	43	36950	10.767	ug/l	99
60) Dibromochloromethane	10.89	129	9956	2.070	ug/l	98
61) 1,2-Dibromoethane	11.00	107	10578	2.251	ug/l	98
64) Tetrachloroethene	10.62	164	14171	2.698	ug/l	92
65) Chlorobenzene	11.43	112	29443	2.448	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.50	131	10143	2.267	ug/l	96
67) Ethyl Benzene	11.50	91	47150	2.277	ug/l	94
68) m/p-Xylenes	11.62	106	33492	4.337	ug/l	94
69) o-Xylene	11.94	106	17658	2.337	ug/l	96
70) Styrene	11.96	104	24280	2.028	ug/l	96
71) Bromoform	12.12	173	6033	1.942	ug/l #	99
73) Isopropylbenzene	12.24	105	44037	2.809	ug/l	99
74) N-amyl acetate	12.06	43	12622	2.743	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	13506	2.990	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	10112m	2.932	ug/l	
77) Bromobenzene	12.52	156	11136	2.780	ug/l	98
78) n-propylbenzene	12.59	91	42932	2.593	ug/l	100
79) 2-Chlorotoluene	12.67	91	29189	2.832	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	35937	2.776	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.29	75	2506m	2.292	ug/l	
82) 4-Chlorotoluene	12.77	91	23860	2.519	ug/l	99
83) tert-Butylbenzene	12.99	119	32294	2.831	ug/l	98
84) 1,2,4-Trimethylbenzene	13.03	105	32503	2.651	ug/l	99
85) sec-Butylbenzene	13.17	105	39370	2.729	ug/l	99
86) p-Isopropyltoluene	13.28	119	34118	2.677	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	14445	2.410	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	13514	2.354	ug/l	84
89) n-Butylbenzene	13.61	91	22637	2.299	ug/l	97
90) Hexachloroethane	13.87	117	6342	2.811	ug/l	80
91) 1,2-Dichlorobenzene	13.65	146	15325	2.524	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1595	2.587	ug/l	90

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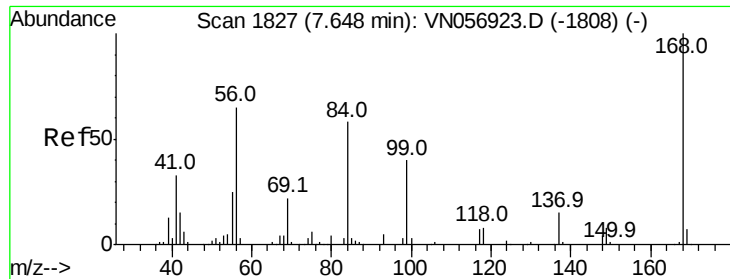
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	3945	1.573	ug/l	98
94) Hexachlorobutadiene	15.00	225	6938	2.831	ug/l	98
95) Naphthalene	15.12	128	10950	1.726	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.29	180	4580	1.681	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056931.D

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LOD-MDL-WATER-01-QT3-2019

Tot Ion:168 Resp: 448152

Ion Ratio Lower Upper

168 100

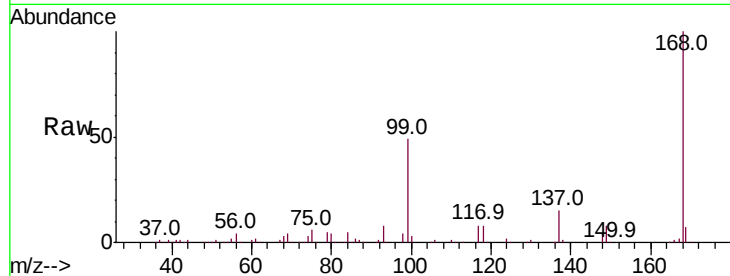
99 48.4 38.6 58.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

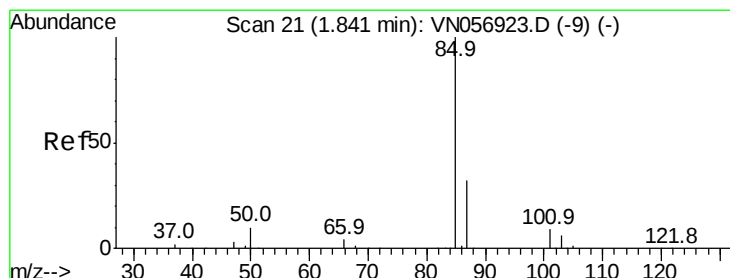
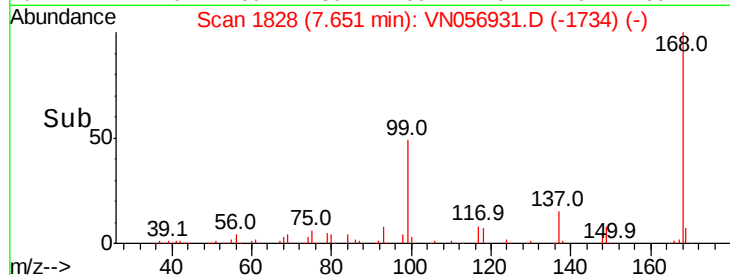
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50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 1.905 ug/l

RT: 1.84 min Scan# 21

Delta R.T. -0.00 min

Lab File: VN056931.D

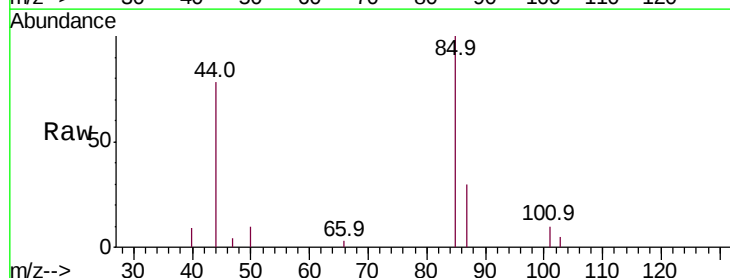
Acq: 25 Jul 2019 20:04

Tgt Ion: 85 Resp: 9201

Ion Ratio Lower Upper

85 100

87 30.4 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

8000

6000

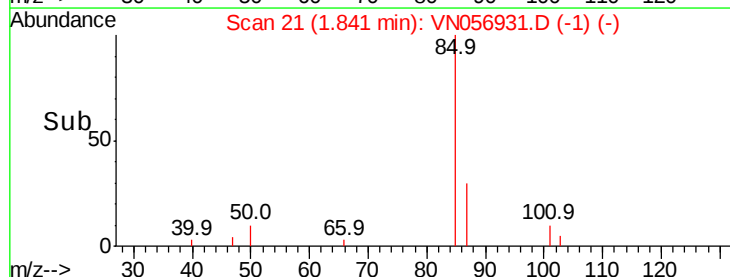
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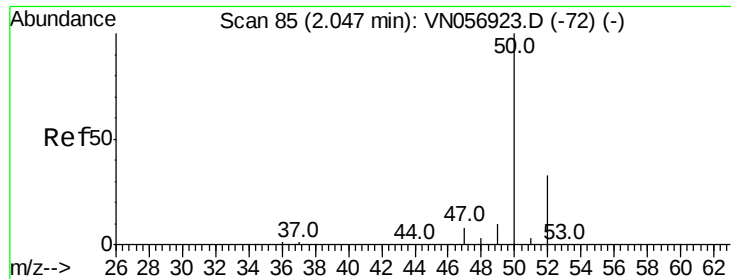
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 2.311 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 50 Resp: 13347

Ion Ratio Lower Upper

50 100

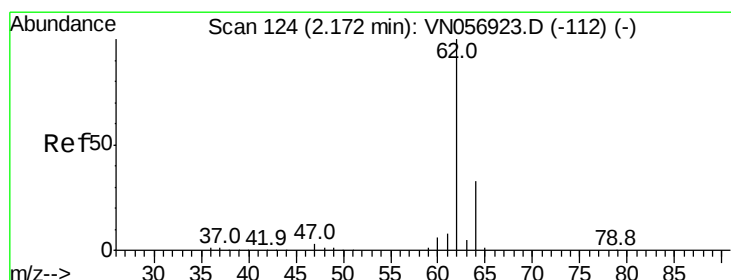
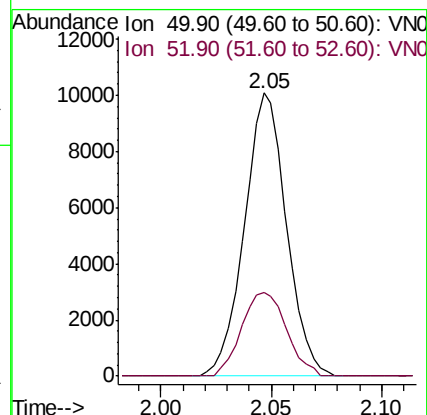
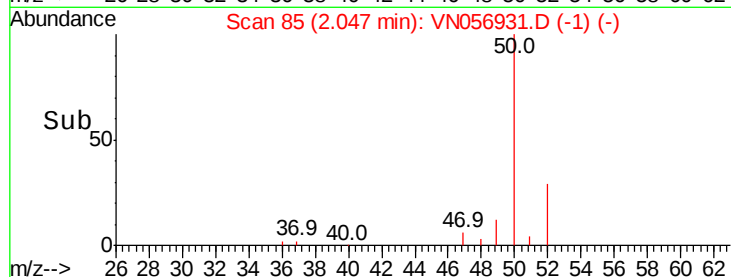
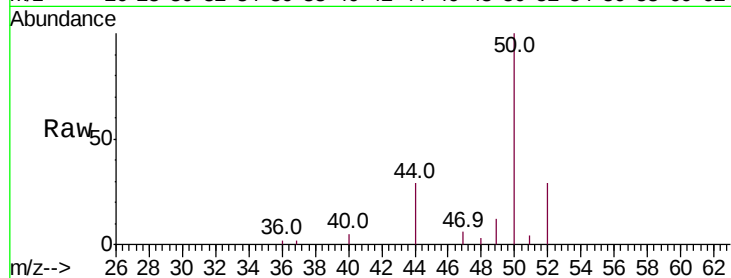
52 29.5 26.8 40.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.275 ug/l

RT: 2.18 min Scan# 125

Delta R.T. 0.00 min

Lab File: VN056931.D

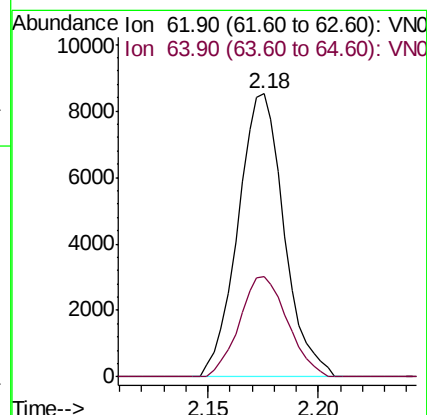
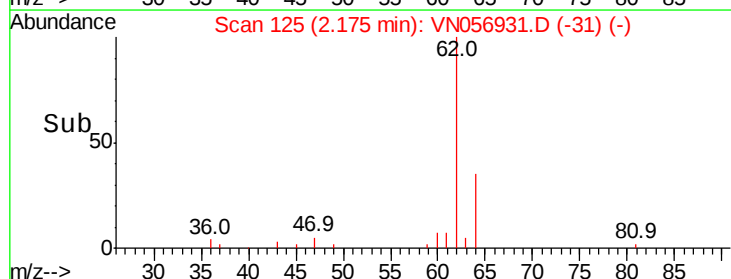
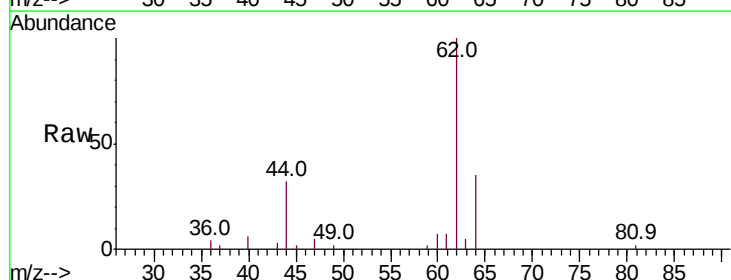
Acq: 25 Jul 2019 20:04

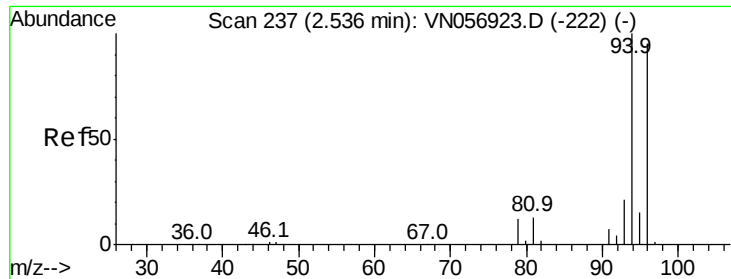
Tgt Ion: 62 Resp: 12374

Ion Ratio Lower Upper

62 100

64 35.2 26.4 39.6





#5

Bromomethane

Concen: 3.251 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

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Tot Ion: 94 Resp: 10694

Ion Ratio Lower Upper

94 100

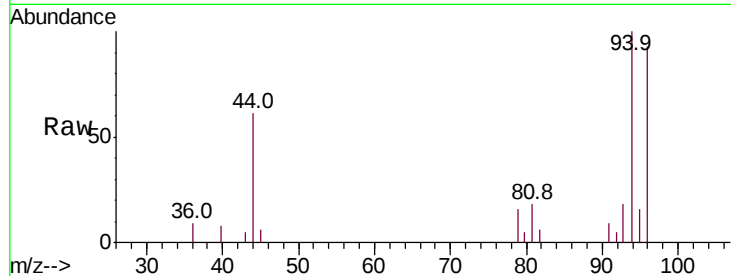
96 93.1 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN056931.D (-222) (-)

Ion 95.90 (95.60 to 96.60): VN056931.D (-222) (-)

2.55

5000

4000

3000

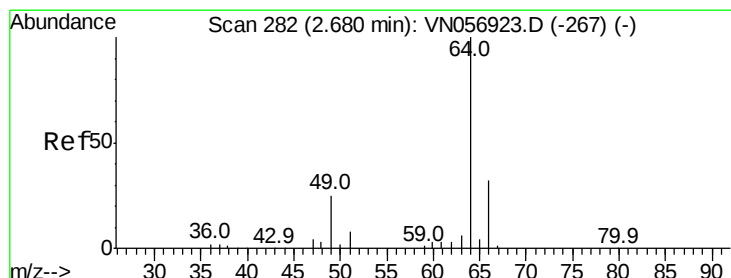
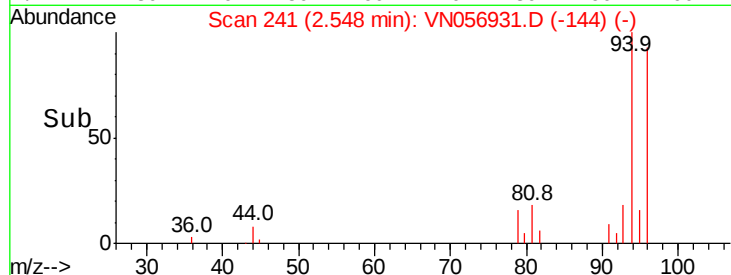
2000

1000

0

Time-->

2.50 2.55 2.60



#6

Chloroethane

Concen: 2.372 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN056931.D

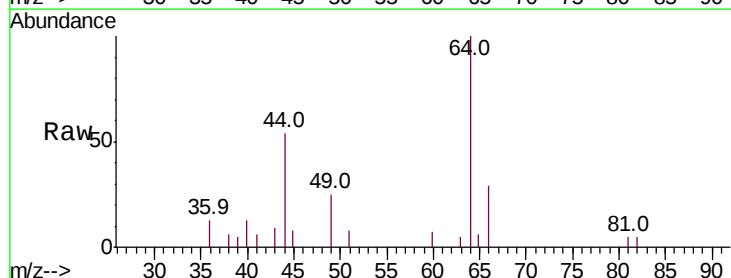
Acq: 25 Jul 2019 20:04

Tgt Ion: 64 Resp: 7161

Ion Ratio Lower Upper

64 100

66 28.9 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VN056931.D (-267) (-)

Ion 65.90 (65.60 to 66.60): VN056931.D (-267) (-)

2.69

4000

3000

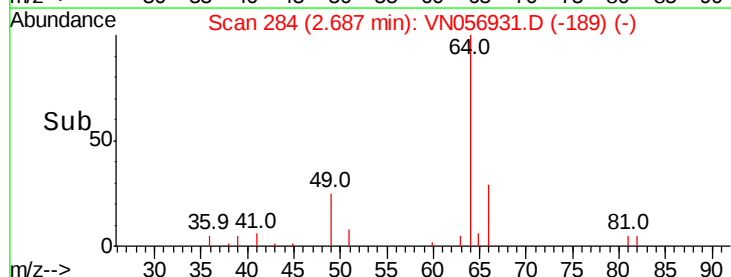
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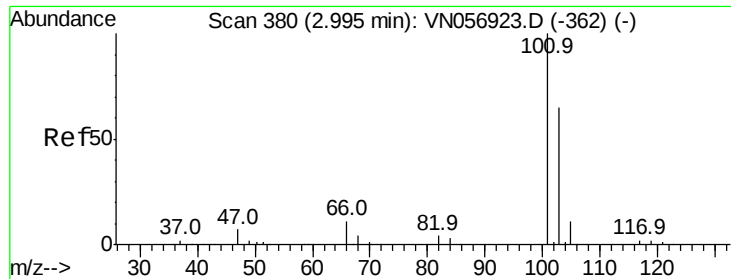
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Time-->

2.65 2.70 2.75





#7

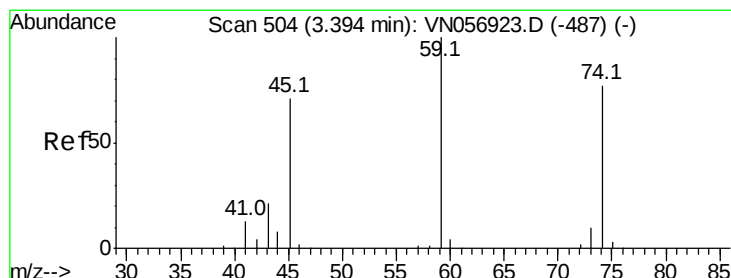
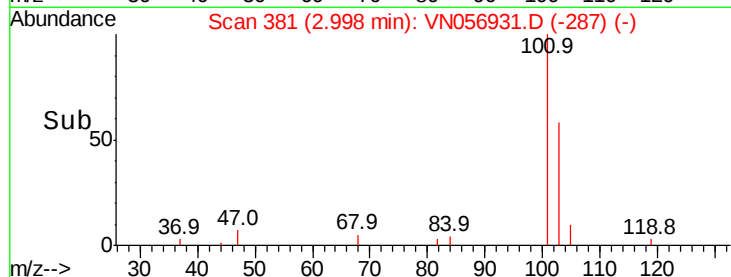
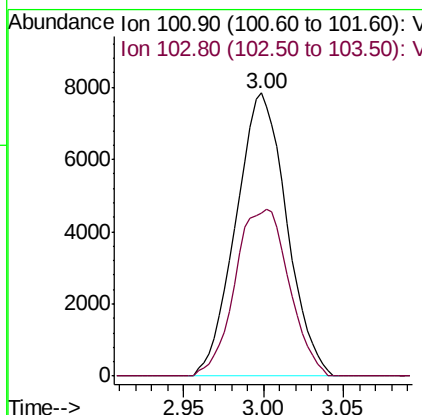
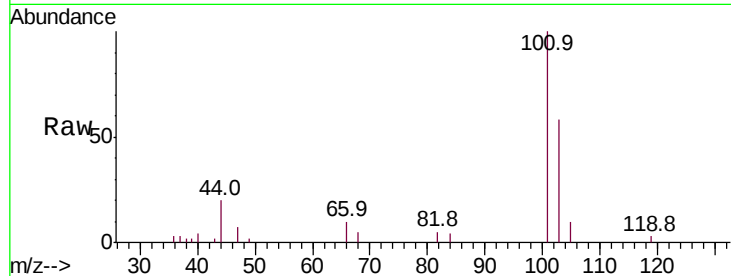
Trichlorofluoromethane
 Concen: 2.399 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN056931.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	57.6	52.0	78.0

Manual Integrations
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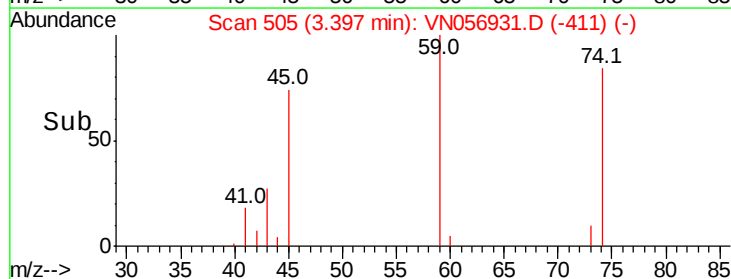
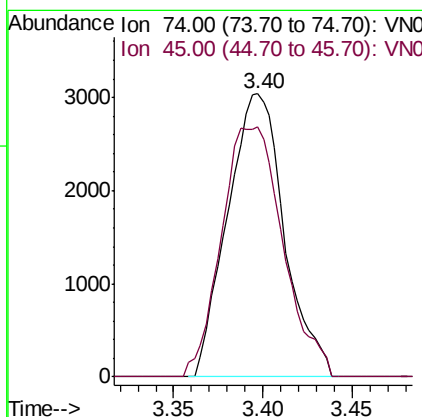
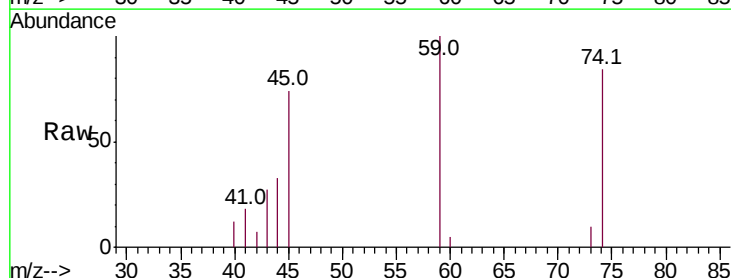
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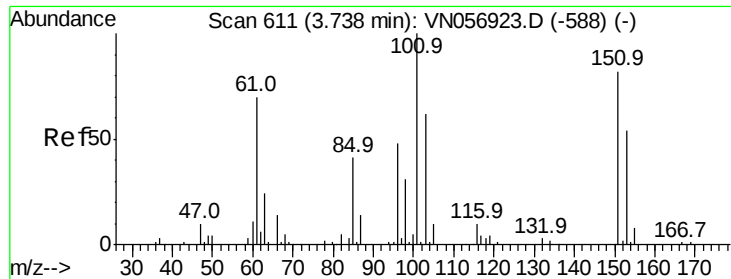


#8

Diethyl Ether
 Concen: 2.543 ug/l
 RT: 3.40 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.7	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.466 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

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MSVOA_N

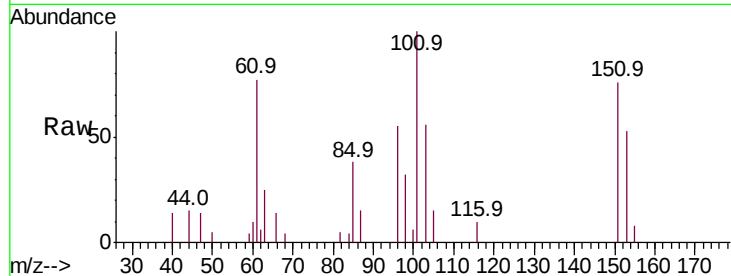
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

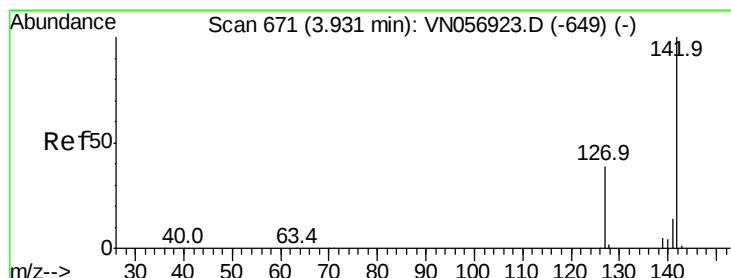
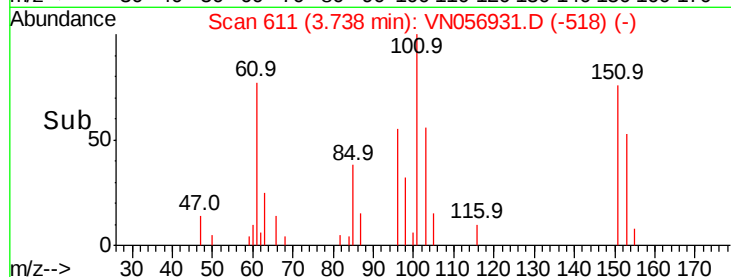
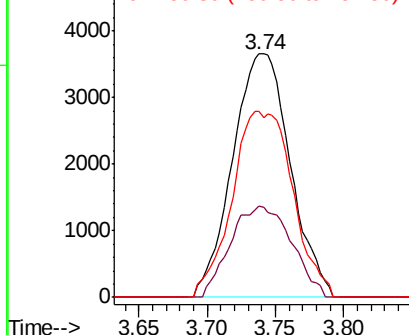
Tot Ion:	101	Resp:	10739
Ion Ratio	Lower	Upper	
101	100		
85	39.7	32.7	49.1
151	80.2	67.4	101.0

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 1.820 ug/l

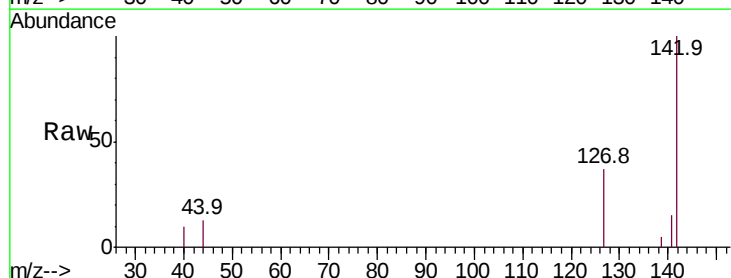
RT: 3.94 min Scan# 673

Delta R.T. 0.01 min

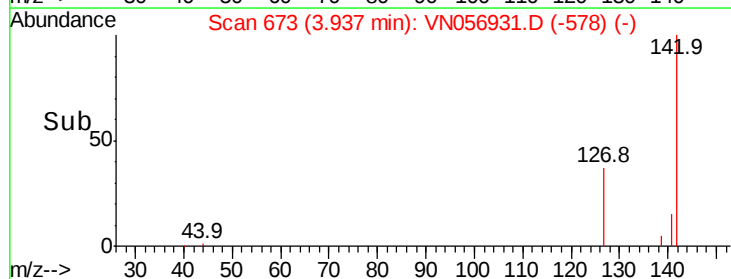
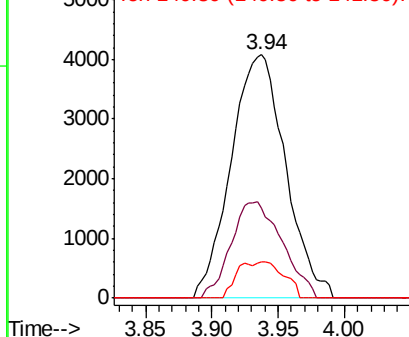
Lab File: VN056931.D

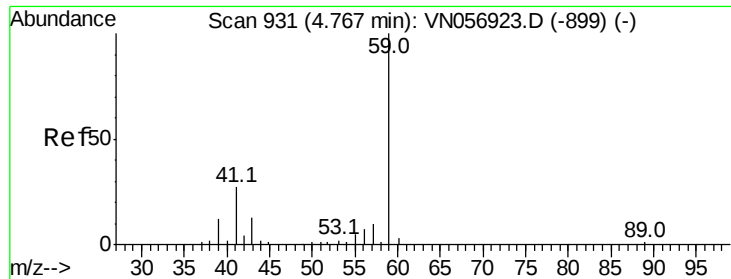
Acq: 25 Jul 2019 20:04

Tgt Ion:	142	Resp:	11646
Ion Ratio	Lower	Upper	
142	100		
127	37.2	30.5	45.7
141	5.0	11.1	16.7#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

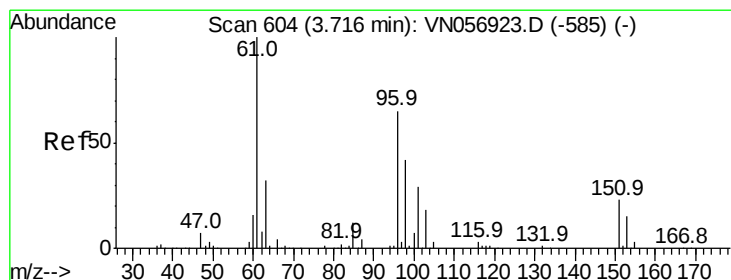
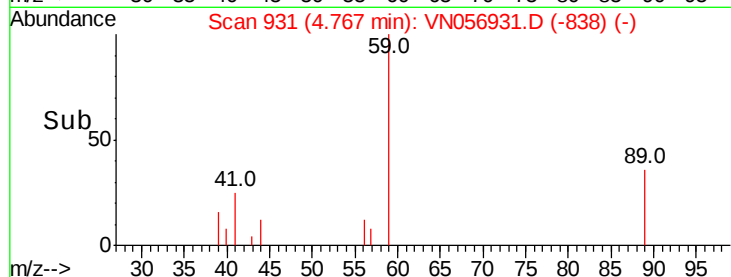
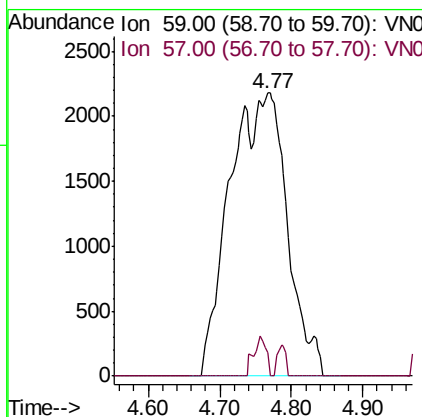
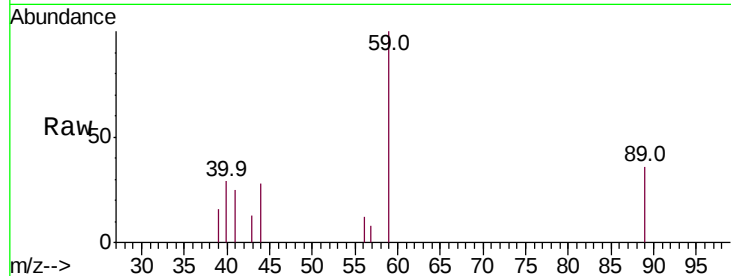
Tert butyl alcohol
Concen: 18.265 ug/l m
RT: 4.77 min Scan# 931
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.6	11.4#

Manual Integrations
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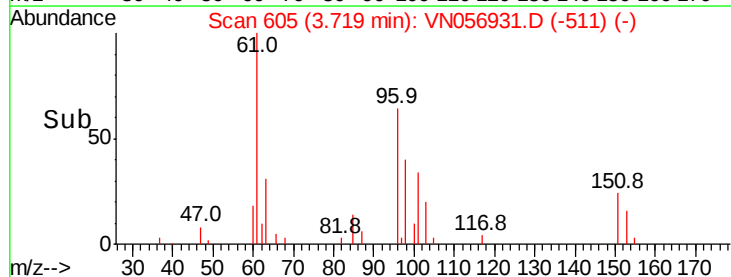
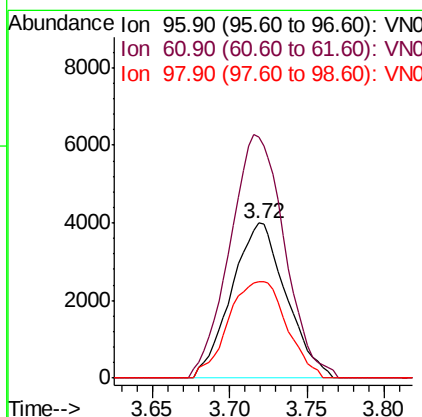
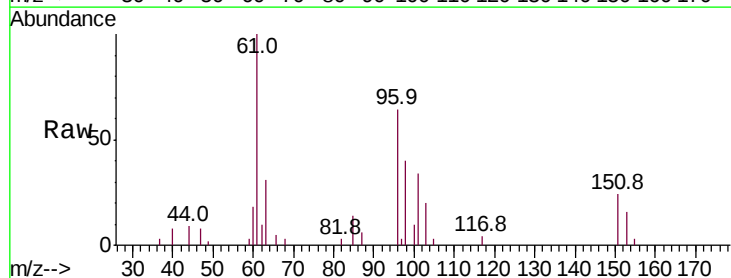
MMDadoda
7/26/2019 3:37:39 PM

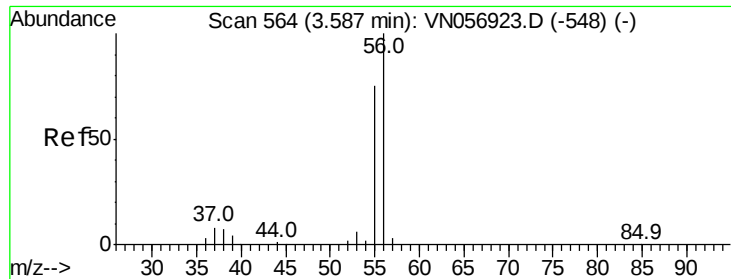


#12

1,1-Dichloroethene
Concen: 2.336 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.8	122.4	183.6
98	62.2	51.3	76.9





#13

Acrolein

Concen: 12.979 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 4866

Ion Ratio Lower Upper

56 100

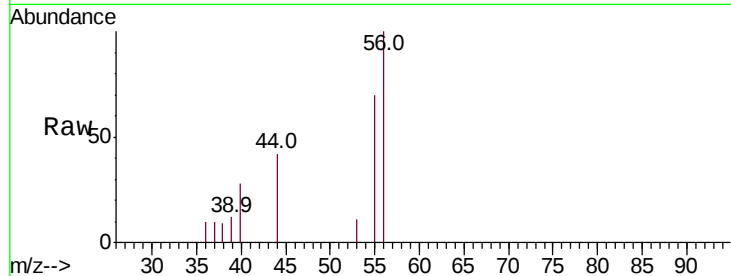
55 74.1 57.5 86.3

Manual Integrations

APPROVED

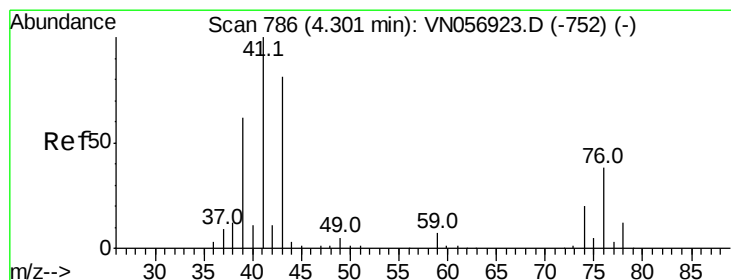
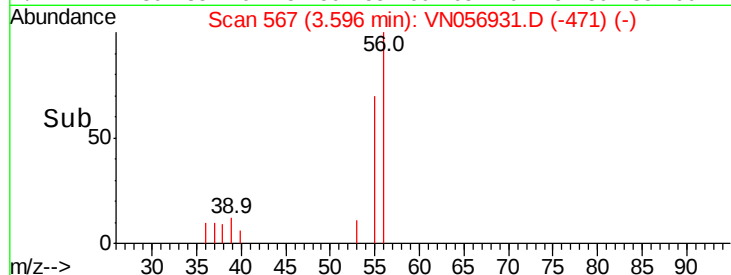
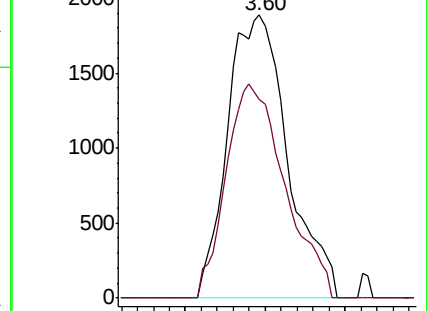
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 2.246 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

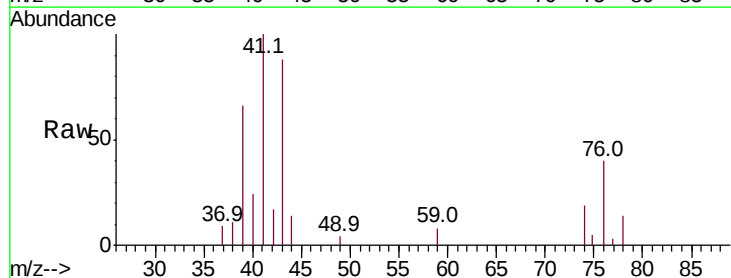
Tgt Ion: 41 Resp: 15323

Ion Ratio Lower Upper

41 100

39 62.5 47.5 71.3

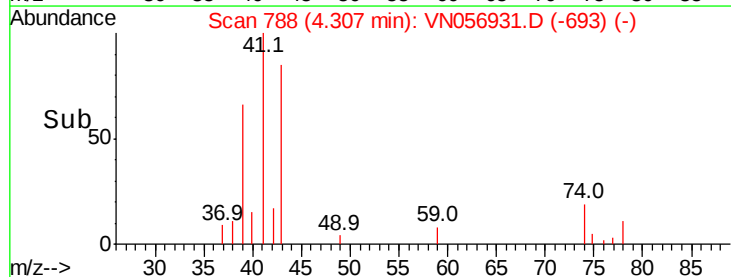
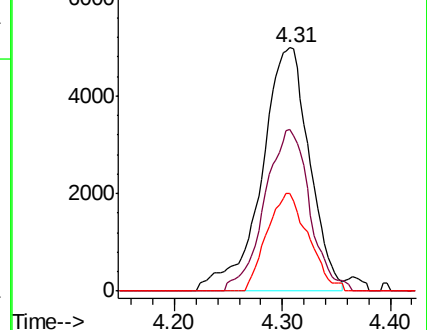
76 34.9 28.0 42.0

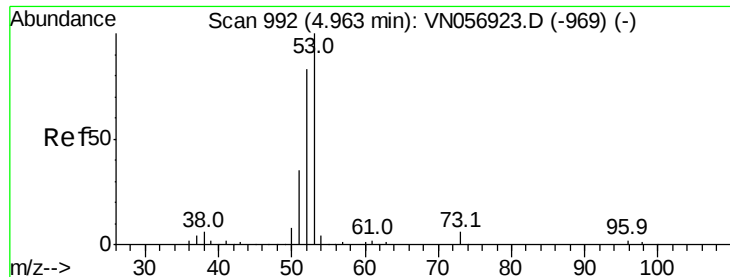


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 11.448 ug/l

RT: 4.98 min Scan# 996

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

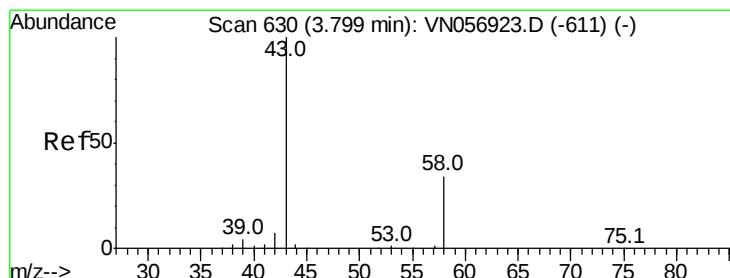
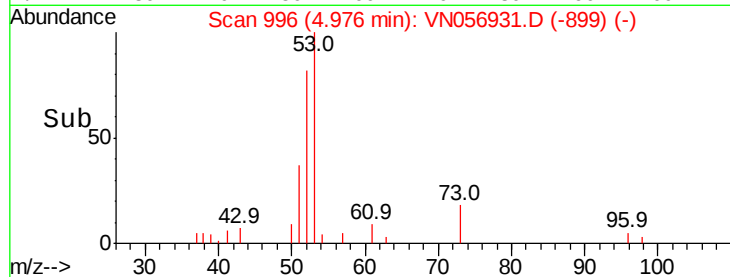
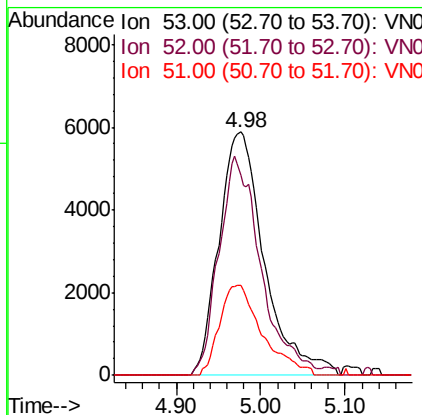
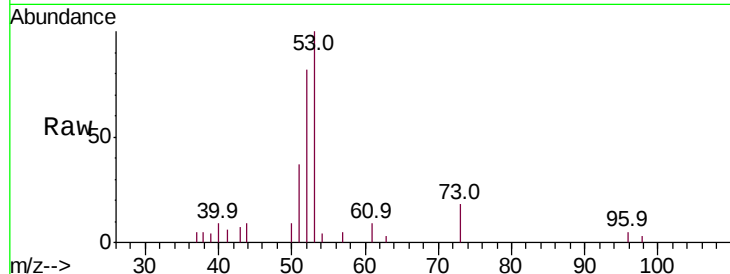
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	53	Resp:	22040
Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.5	98.3
51	34.7	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 11.677 ug/l

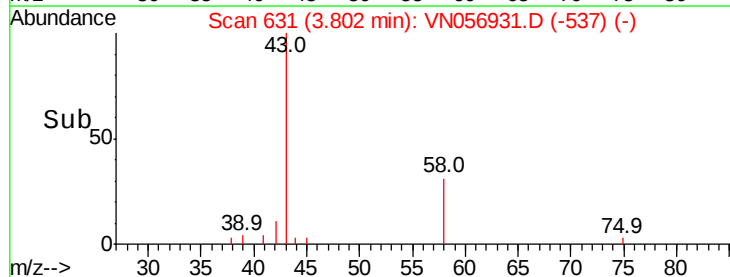
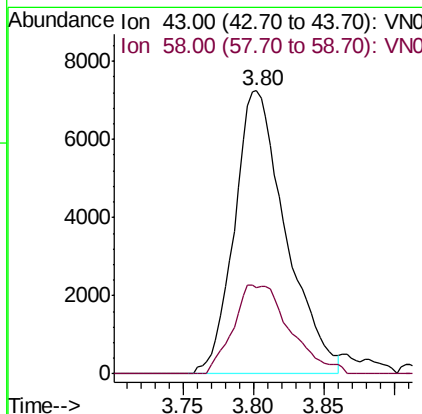
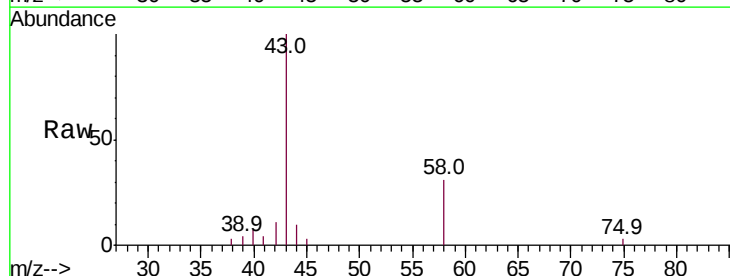
RT: 3.80 min Scan# 631

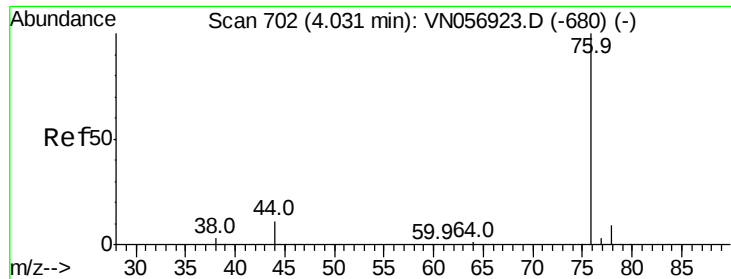
Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion:	43	Resp:	18492
Ion	Ratio	Lower	Upper
43	100		
58	30.6	27.3	40.9





#17

Carbon Disulfide

Concen: 2.207 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 24998

Ion Ratio Lower Upper

76 100

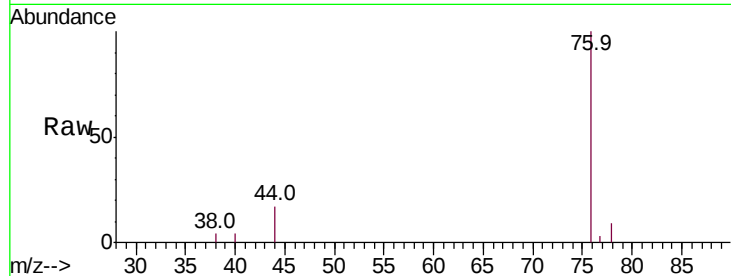
78 8.9 7.3 10.9

Manual Integrations

APPROVED

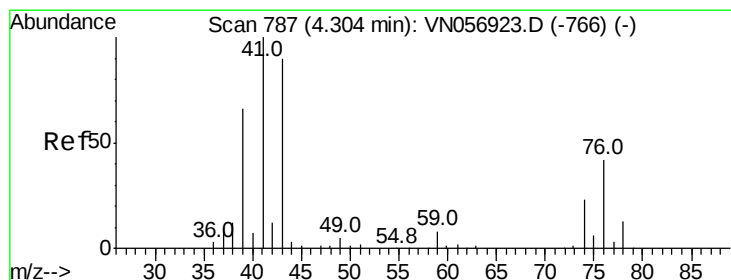
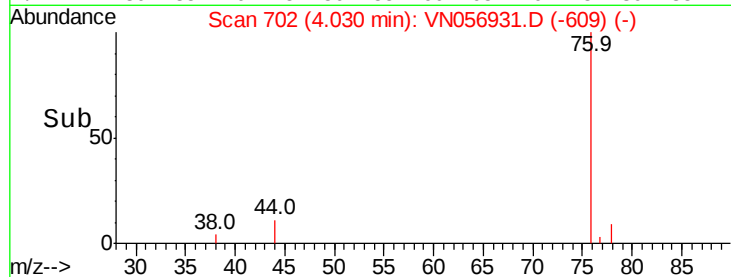
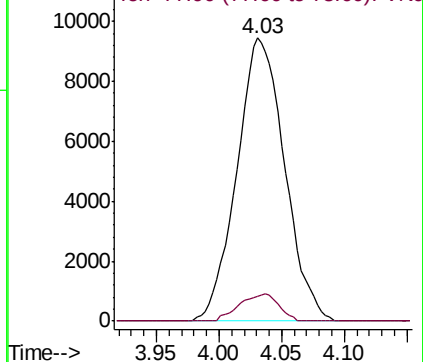
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 2.494 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN056931.D

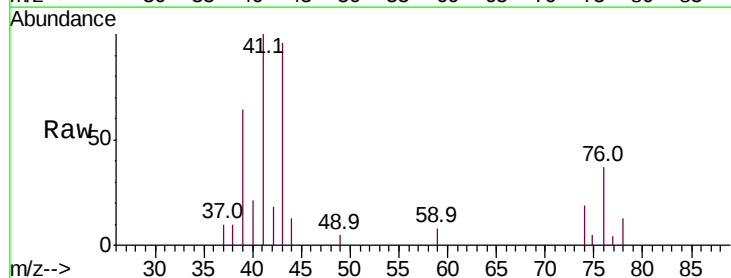
Acq: 25 Jul 2019 20:04

Tgt Ion: 43 Resp: 13826

Ion Ratio Lower Upper

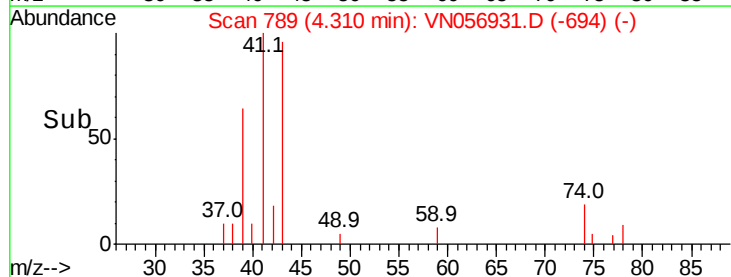
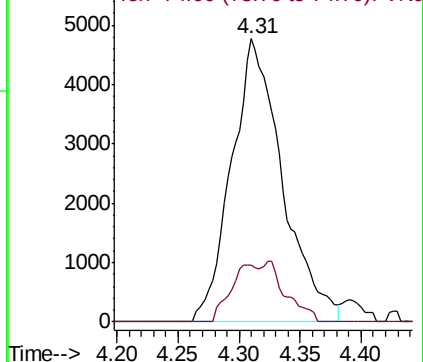
43 100

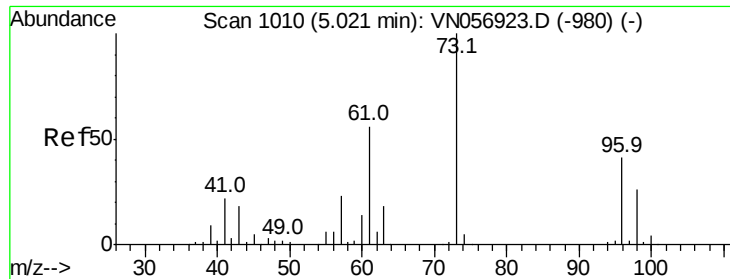
74 11.4 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





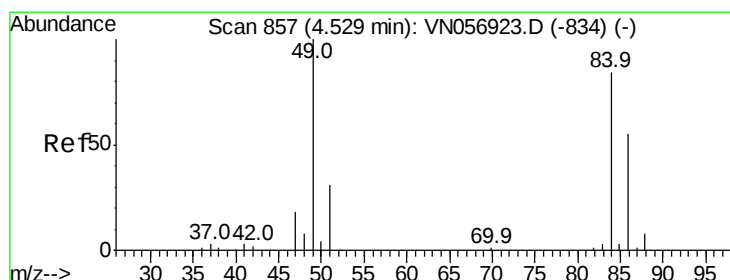
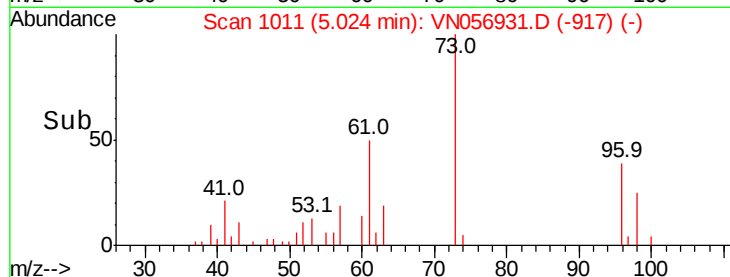
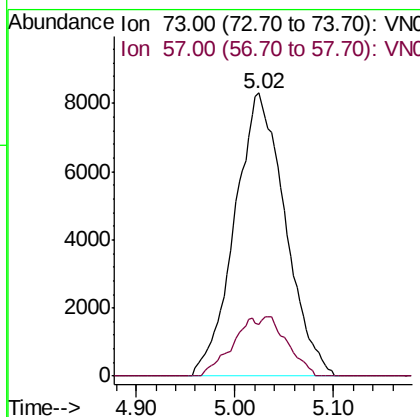
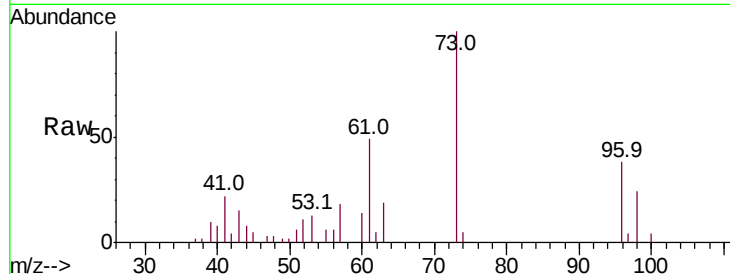
#19
Methyl tert-butyl Ether
Concen: 2.383 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 73 Resp: 29472
Ion Ratio Lower Upper
73 100
57 18.3 18.2 27.4

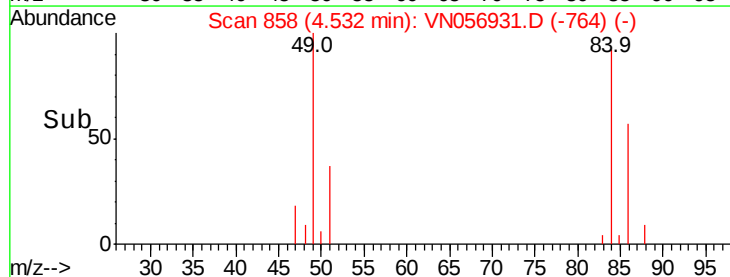
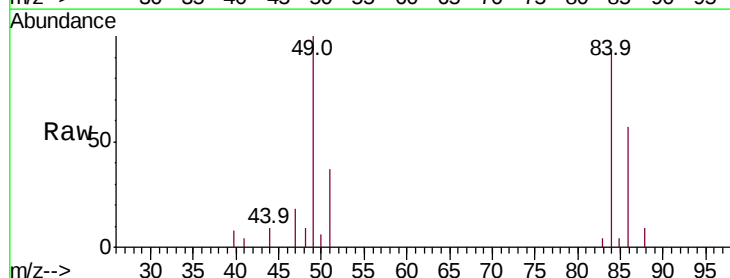
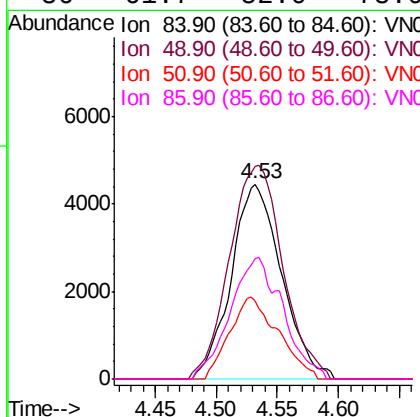
Manual Integrations
APPROVED

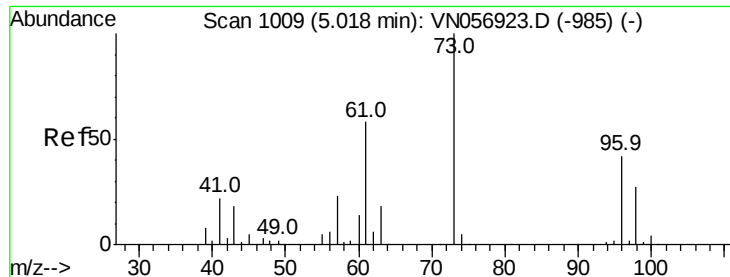
MMDadoda
7/26/2019 3:37:39 PM



#20
Methylene Chloride
Concen: 2.543 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion: 84 Resp: 12751
Ion Ratio Lower Upper
84 100
49 108.9 95.0 142.6
51 39.9 29.8 44.8
86 61.7 52.0 78.0





#21

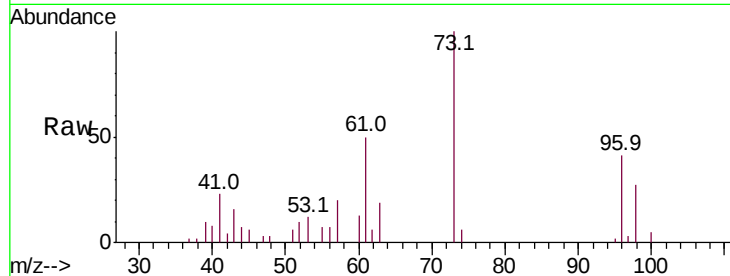
trans-1,2-Dichloroethene
Concen: 2.390 ug/l m
RT: 5.03 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.6	109.9	164.9
98	66.0	51.0	76.4

Manual Integrations
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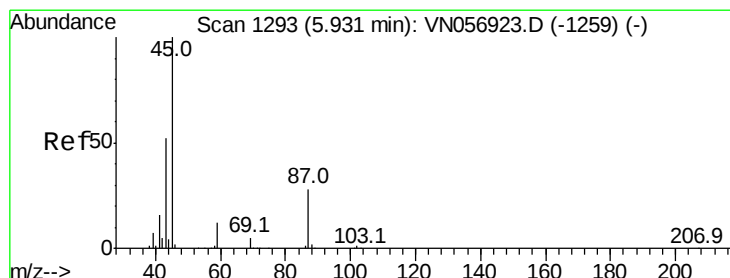
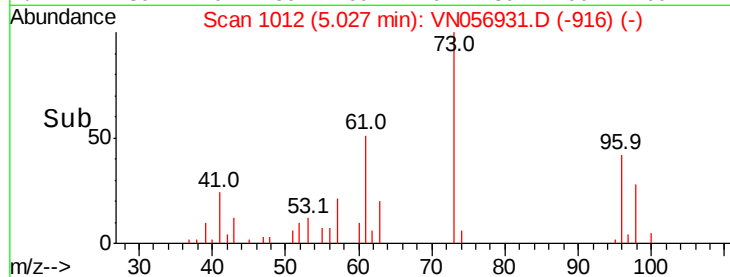
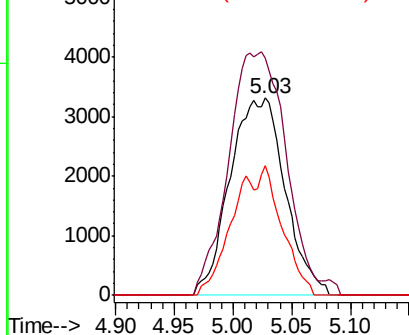


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether
Concen: 2.460 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.7	44.7	67.1
87	27.7	23.1	34.7
59	10.9	9.7	14.5

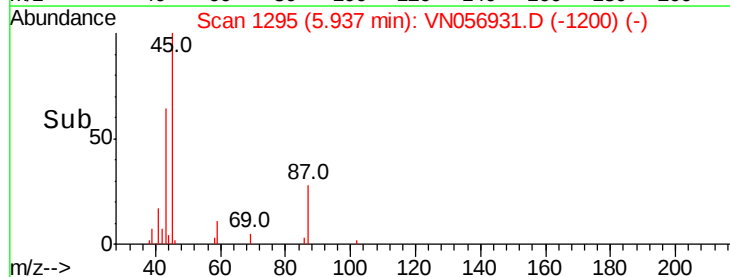
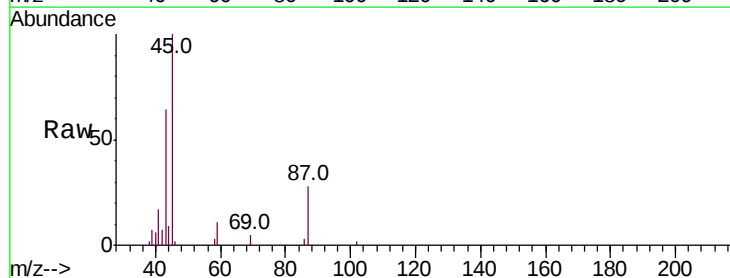
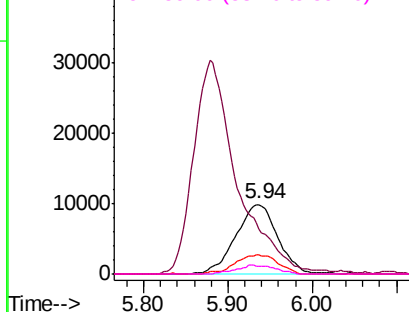
Abundance

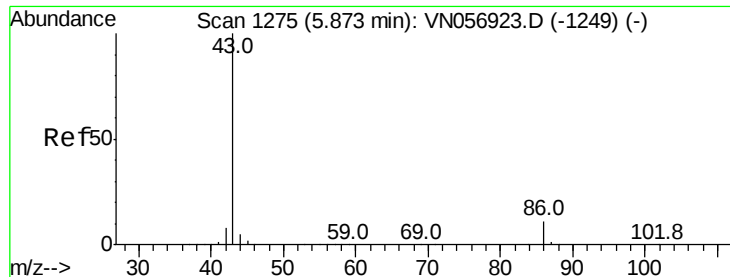
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 11.381 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 108946

Ion Ratio Lower Upper

43 100

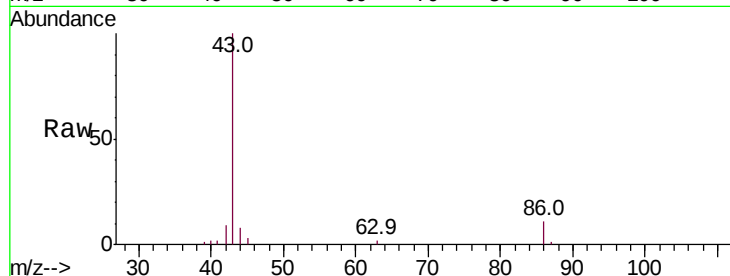
86 11.2 8.6 13.0

Manual Integrations

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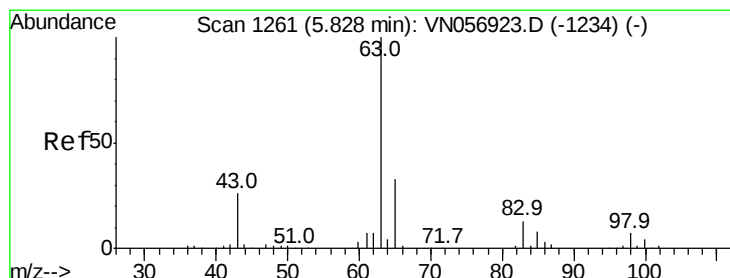
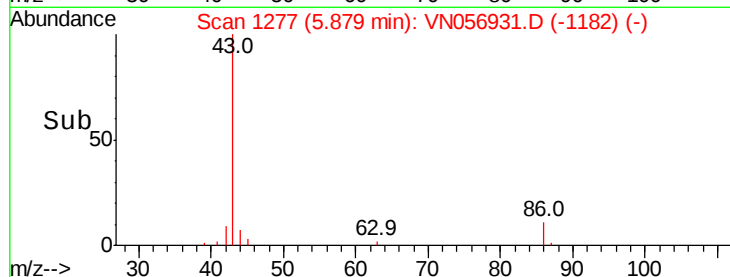
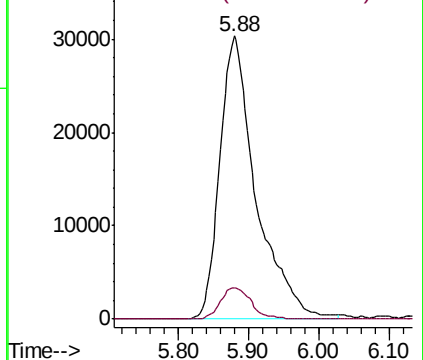
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 2.487 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

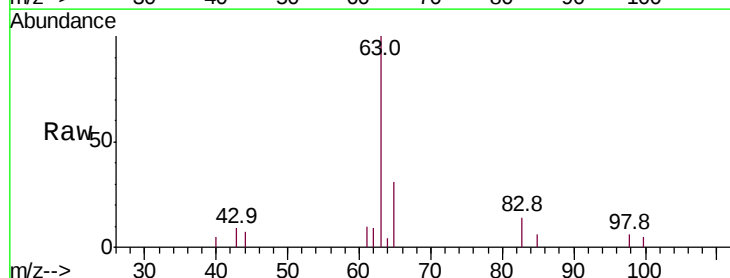
Tgt Ion: 63 Resp: 20307

Ion Ratio Lower Upper

63 100

98 5.8 3.4 10.1

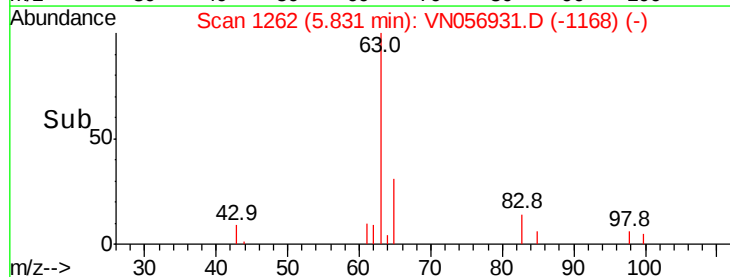
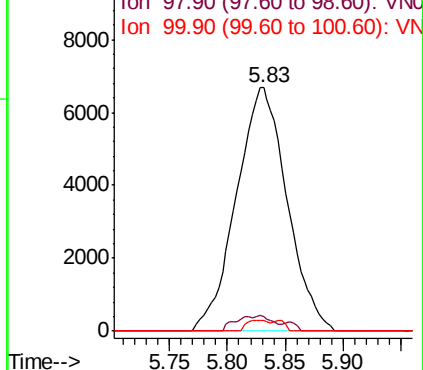
100 4.5 2.1 6.3

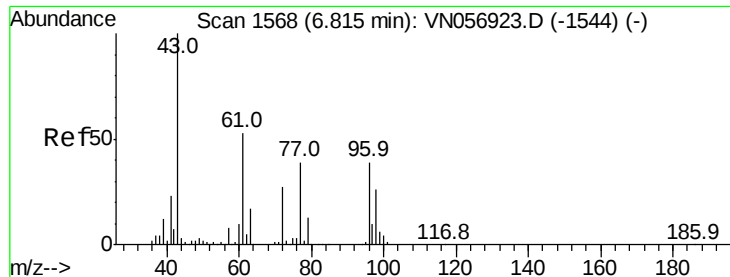


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 11.126 ug/l m

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 27121

Ion Ratio Lower Upper

43 100

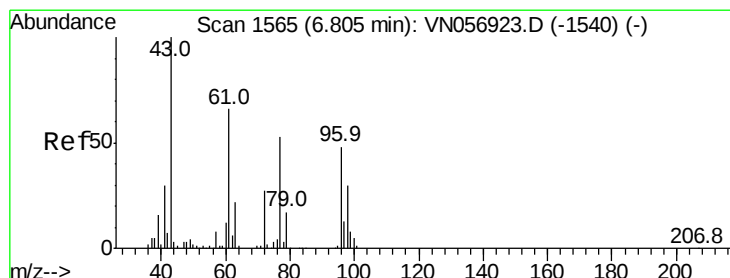
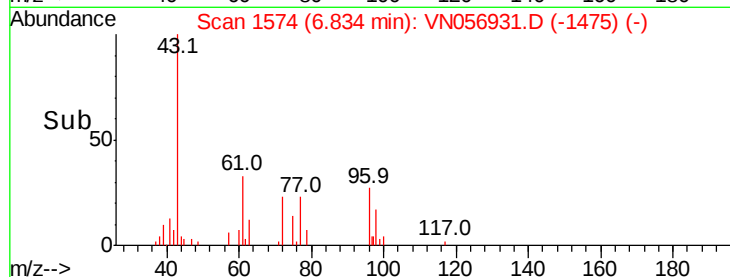
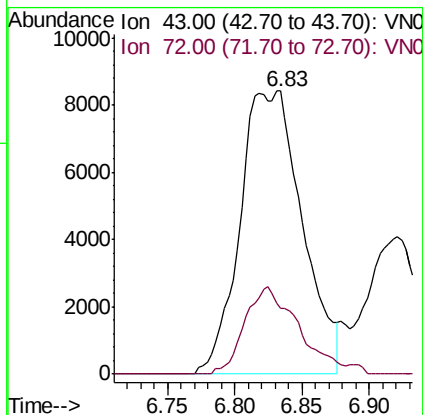
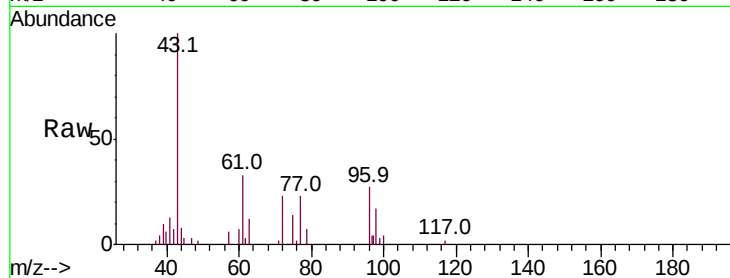
72 23.4 21.9 32.9

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 2.218 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN056931.D

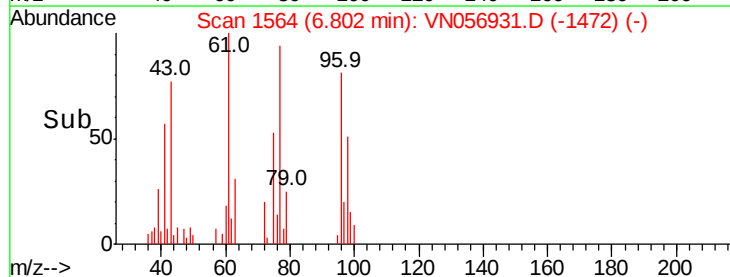
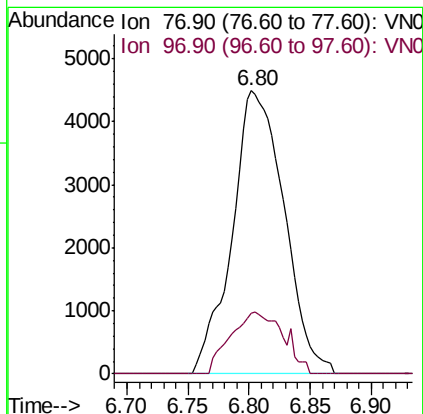
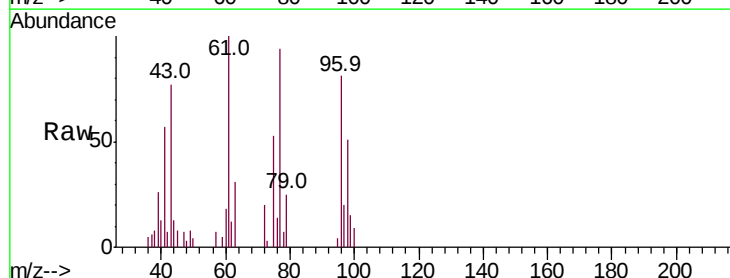
Acq: 25 Jul 2019 20:04

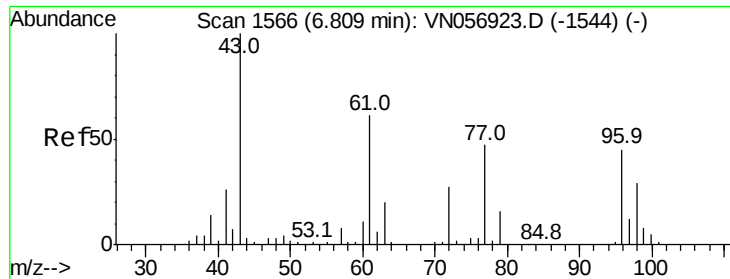
Tgt Ion: 77 Resp: 13287

Ion Ratio Lower Upper

77 100

97 22.3 12.3 36.8





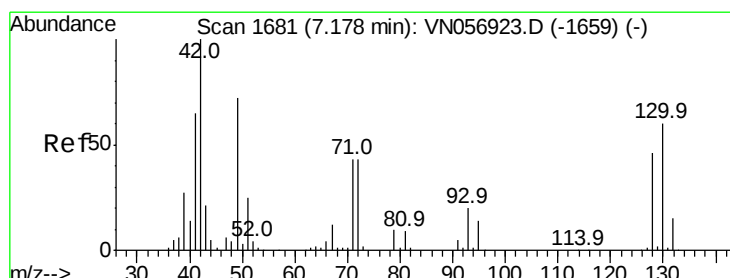
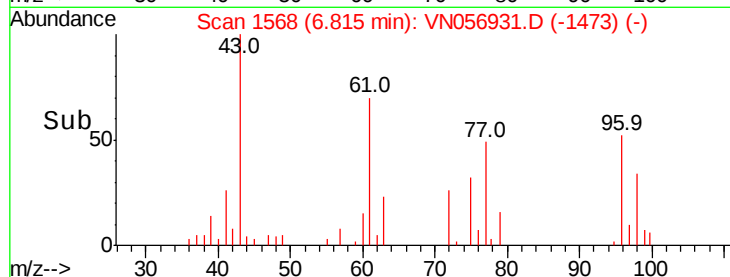
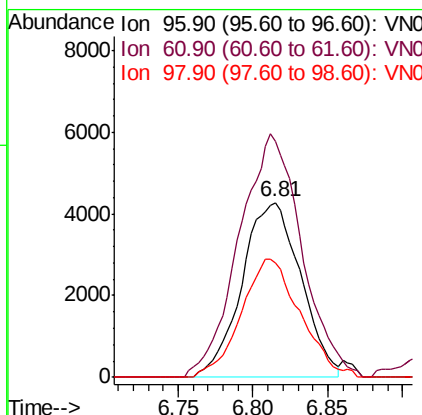
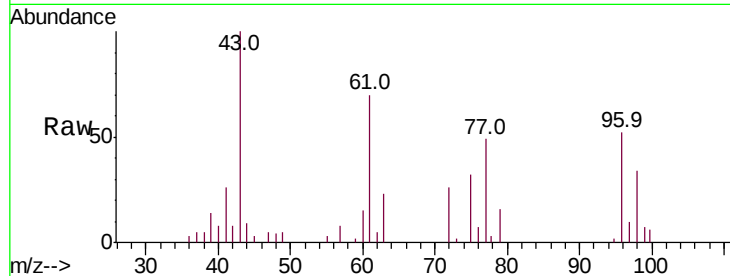
#27
 cis-1,2-Dichloroethene
 Concen: 2.285 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	278.8
98	67.7	0.0	130.0

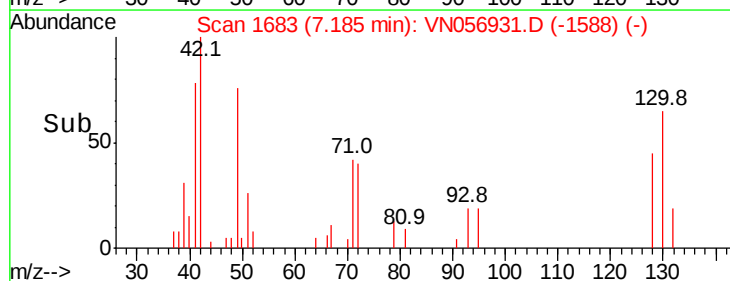
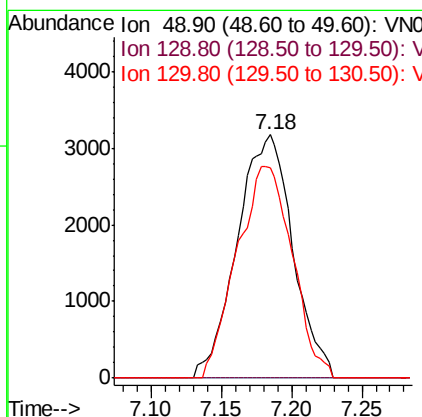
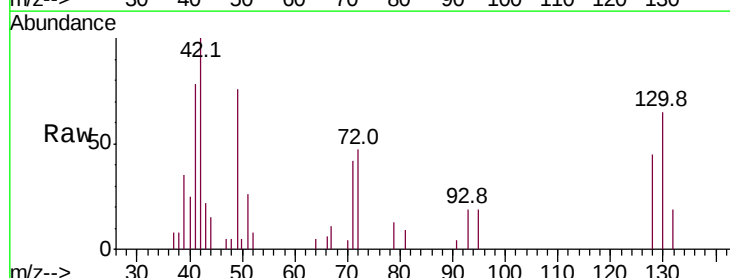
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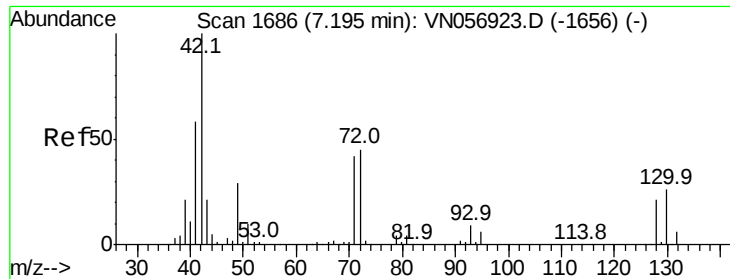
MMDadoda
 7/26/2019 3:37:39 PM



#28
 Bromochloromethane
 Concen: 2.317 ug/l
 RT: 7.18 min Scan# 1683
 Delta R.T. 0.01 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	86.7	67.3	100.9





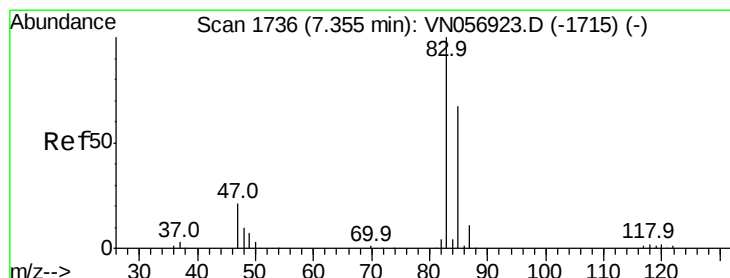
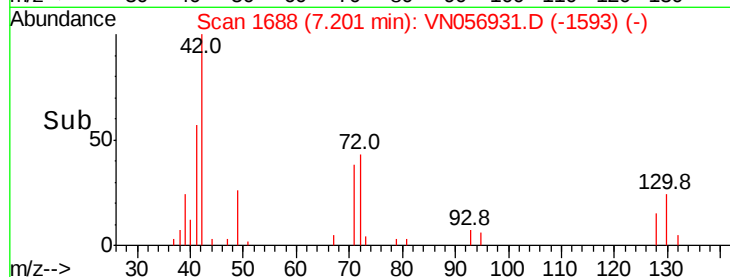
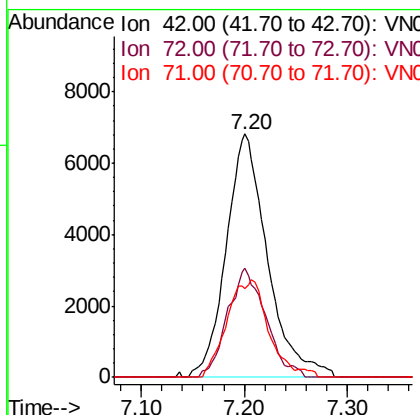
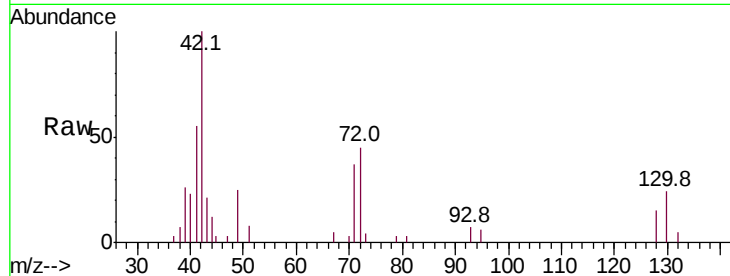
#29
Tetrahydrofuran
Concen: 11.888 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	35.5	53.3
71	39.8	33.0	49.6

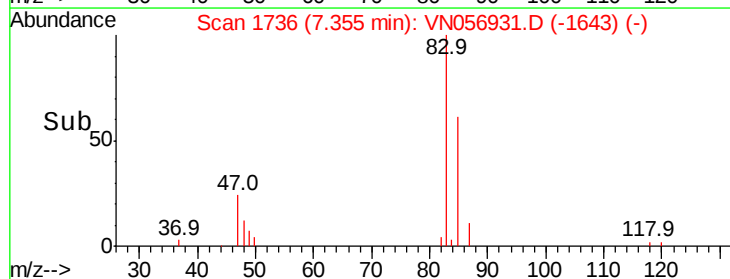
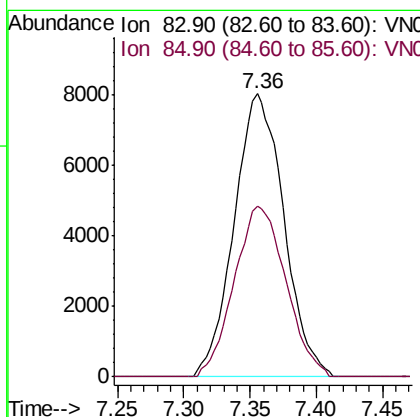
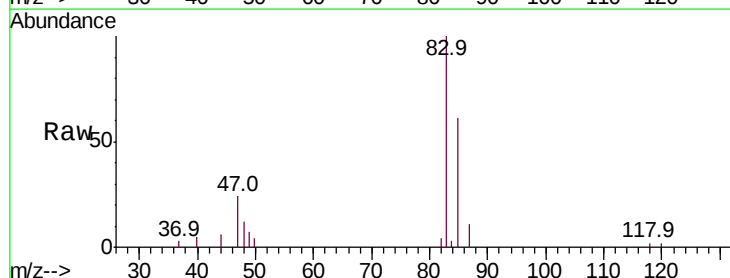
Manual Integrations
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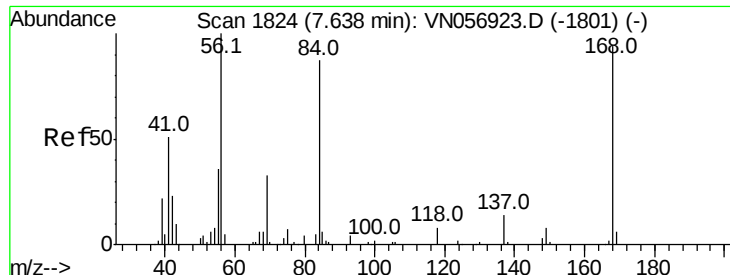
MMDadoda
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#30
Chloroform
Concen: 2.493 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.5	53.5	80.3





#31

Cyclohexane

Concen: 3.040 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 24157

Ion Ratio Lower Upper

56 100

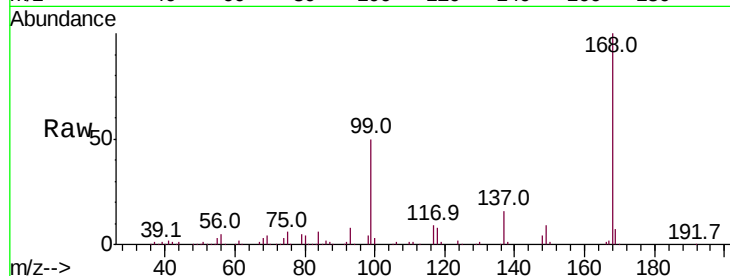
69 82.7 26.3 39.5#

84 111.4 69.6 104.4#

Manual Integrations
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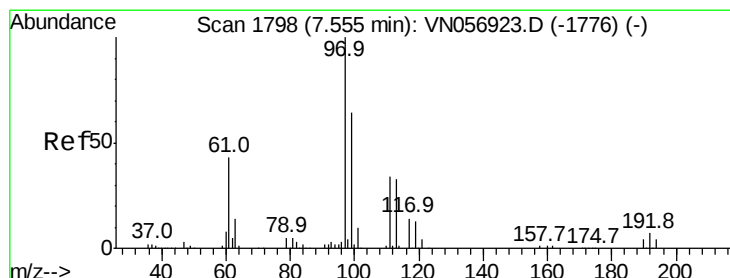
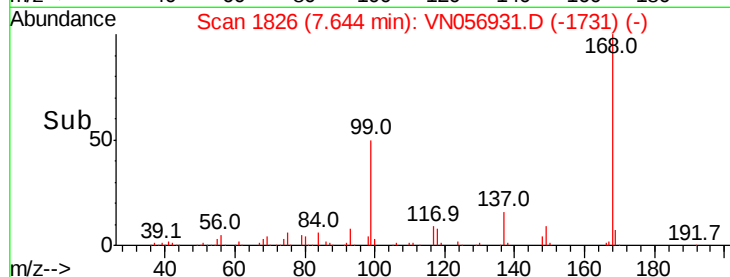
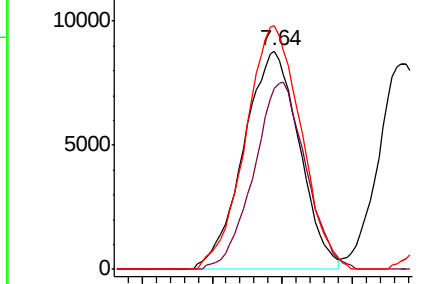
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Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 2.408 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

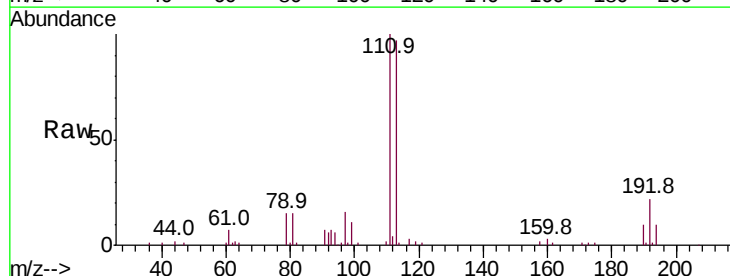
Tgt Ion: 97 Resp: 16217

Ion Ratio Lower Upper

97 100

99 60.8 51.6 77.4

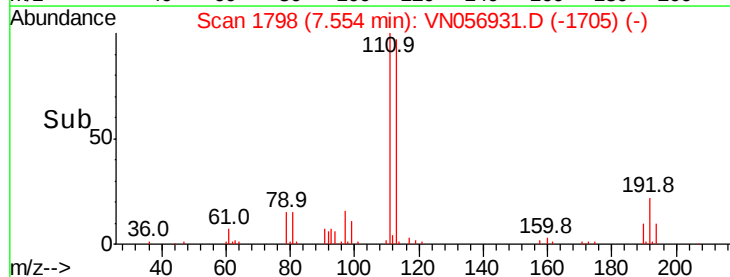
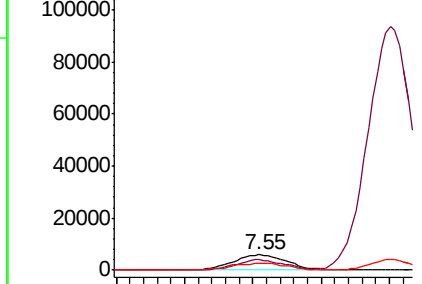
61 45.3 33.8 50.6

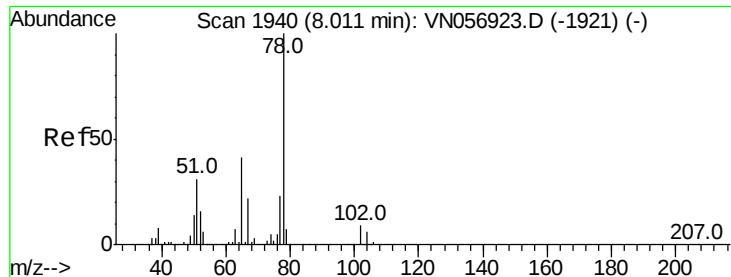


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





#33

1,2-Dichloroethane-d4

Concen: 50.065 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

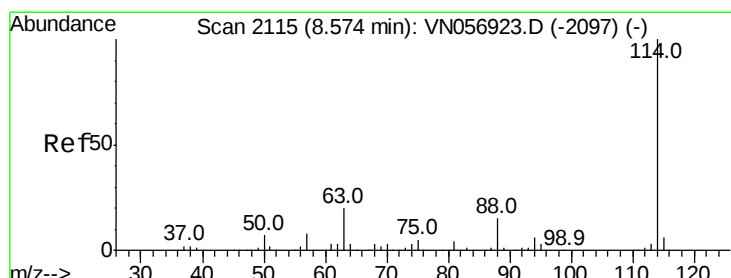
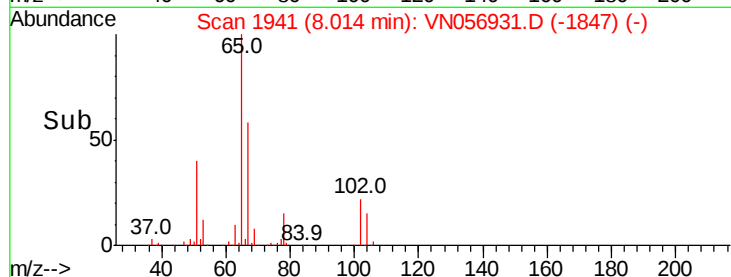
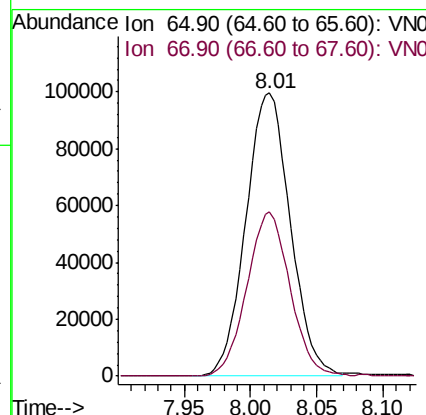
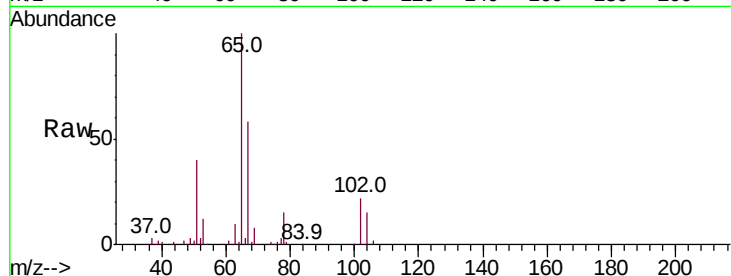
Instrument :
MSVOA_N

ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.2	0.0	109.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

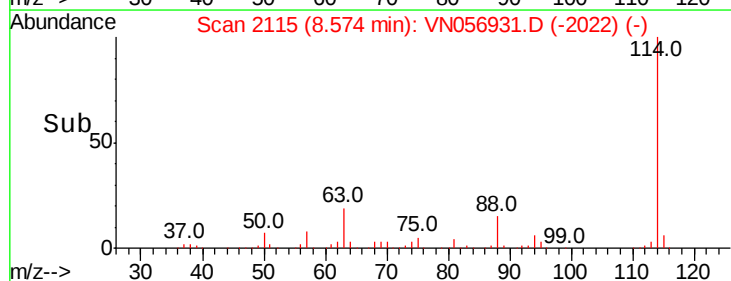
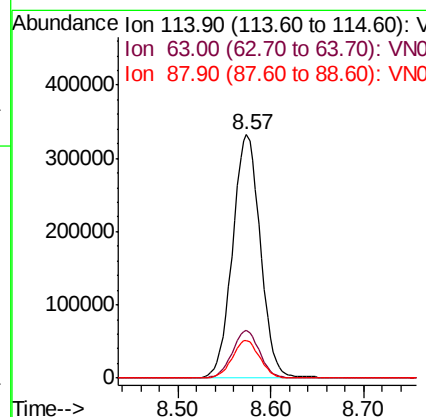
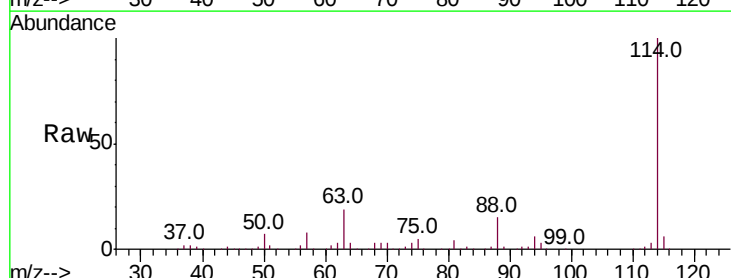
RT: 8.57 min Scan# 2115

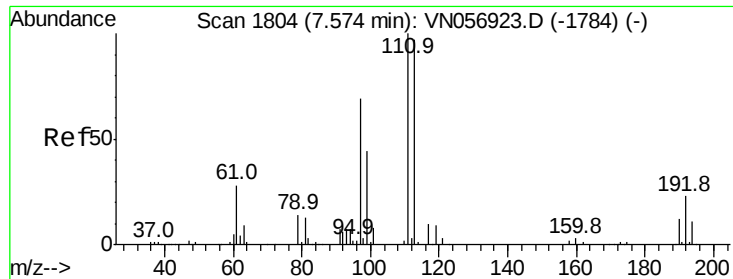
Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	39.4
88	15.4	0.0	30.4





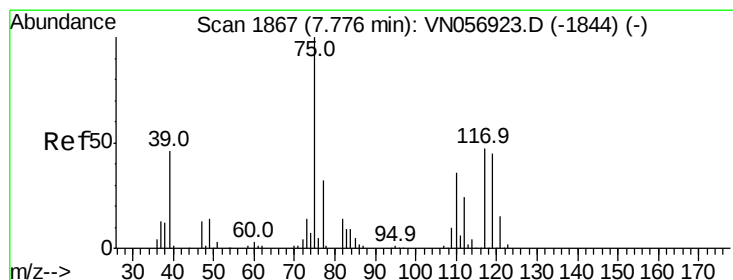
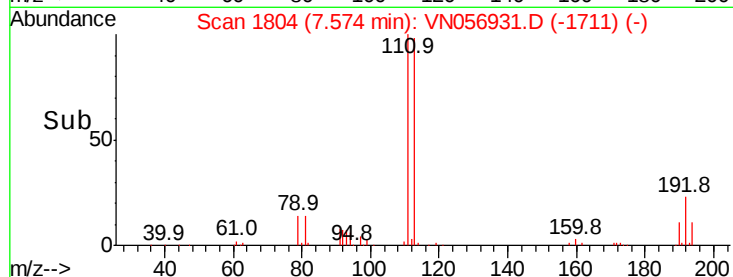
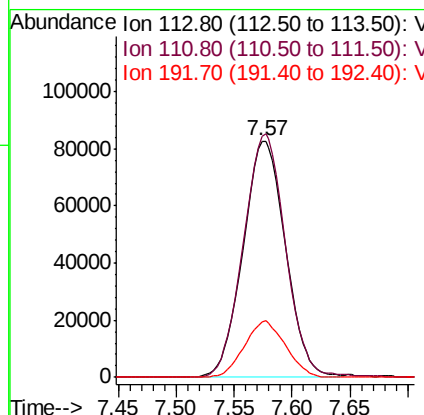
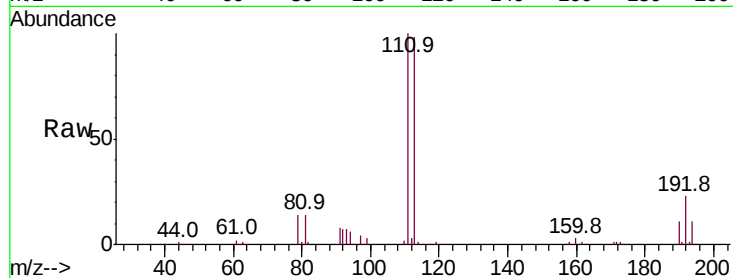
#35
 Dibromofluoromethane
 Concen: 47.843 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.8	82.2	123.2	
192	23.1	18.3	27.5	

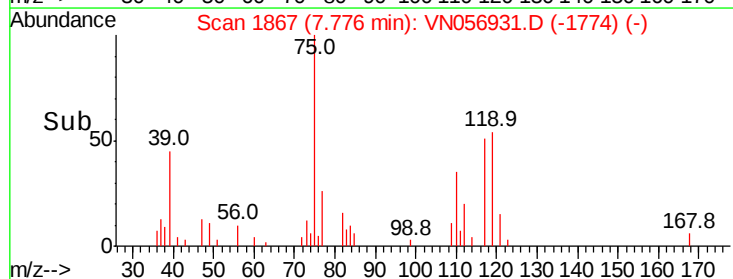
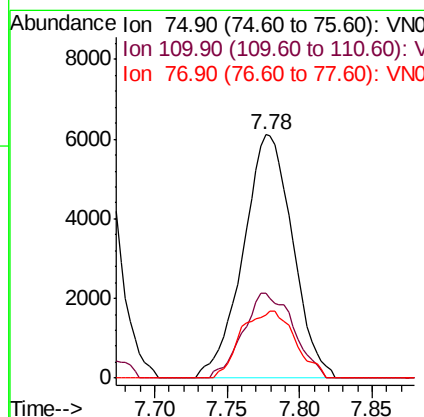
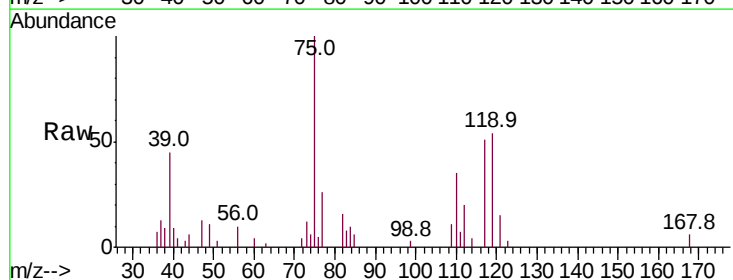
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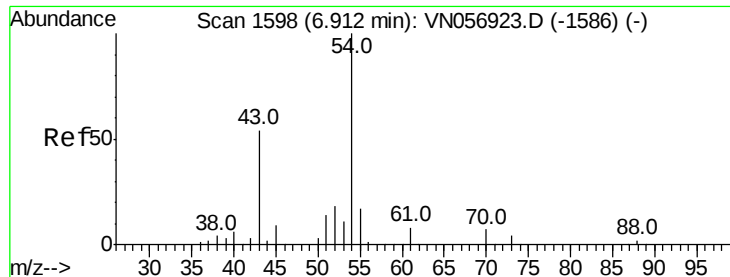
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 2.293 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.6	18.9	56.9	
77	30.1	25.4	38.0	





#37

Ethyl Acetate

Concen: 1.734 ug/l

RT: 6.92 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

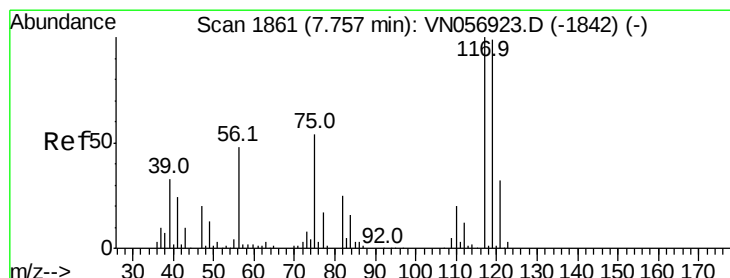
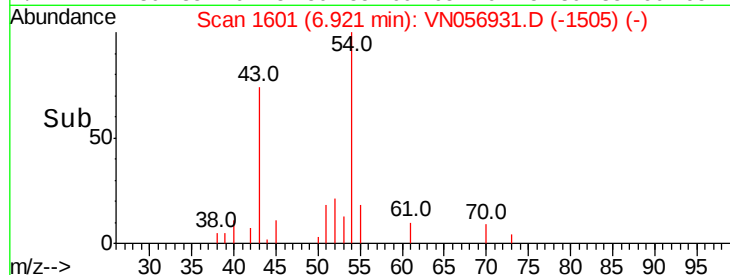
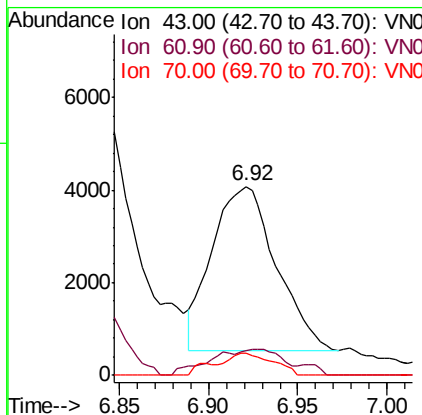
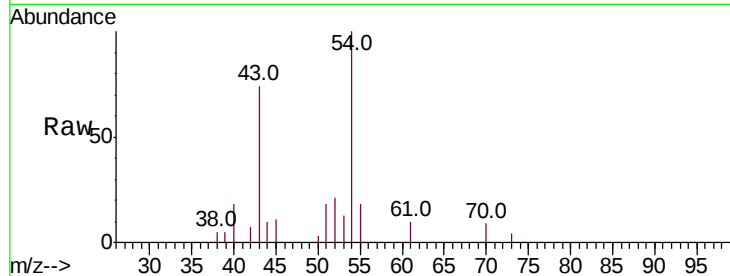
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	43	Resp:	8871
Ion	Ratio	Lower	Upper
43	100		
61	17.9	11.9	17.9#
70	9.4	8.8	13.2

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 2.273 ug/l

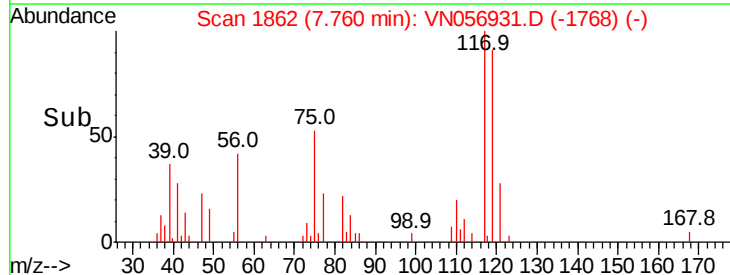
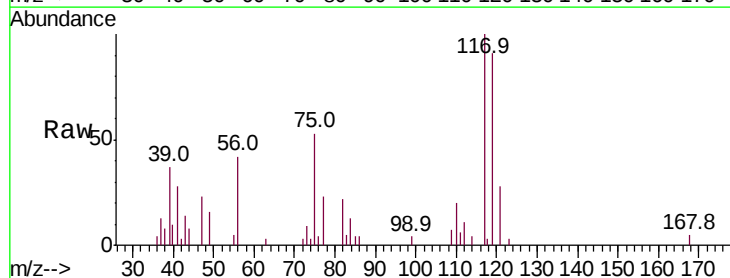
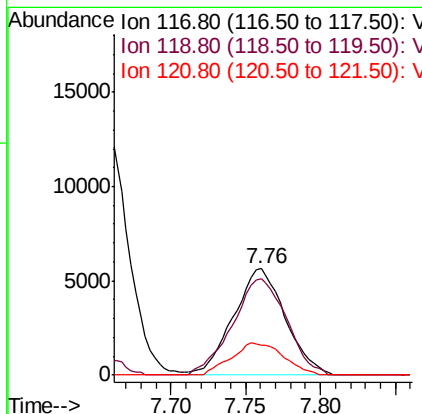
RT: 7.76 min Scan# 1862

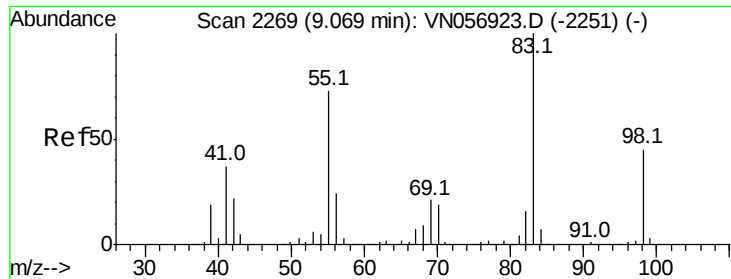
Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion:	117	Resp:	13654
Ion	Ratio	Lower	Upper
117	100		
119	91.0	79.0	118.6
121	27.8	25.1	37.7





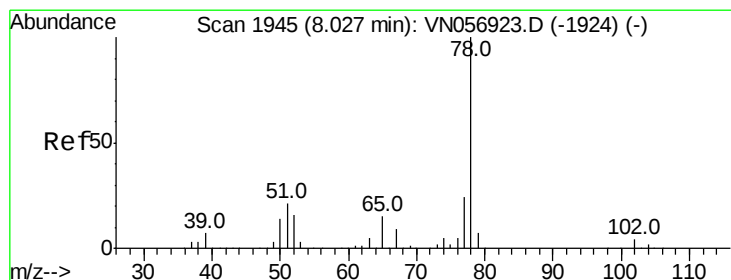
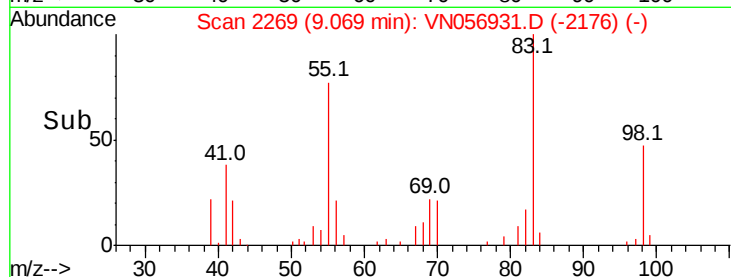
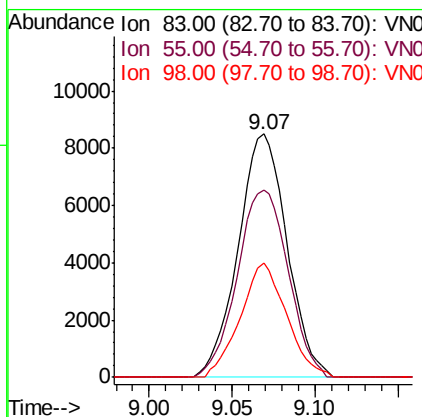
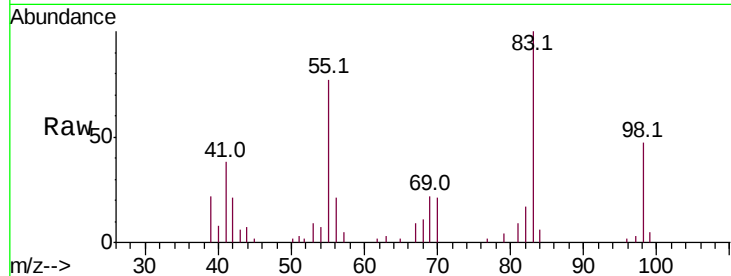
#39
Methvlcvclohexane
Concen: 2.262 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	83	Resp	17409
Ion Ratio	100	Lower	Upper
83	100		
55	76.9	58.8	88.2
98	46.8	35.8	53.6

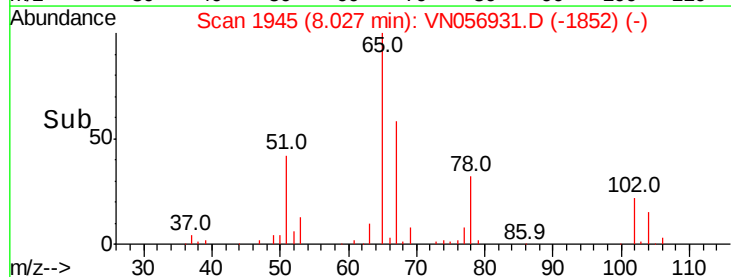
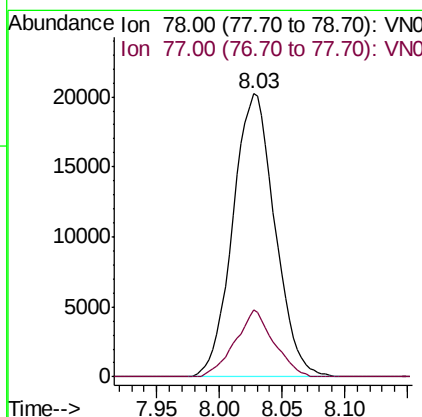
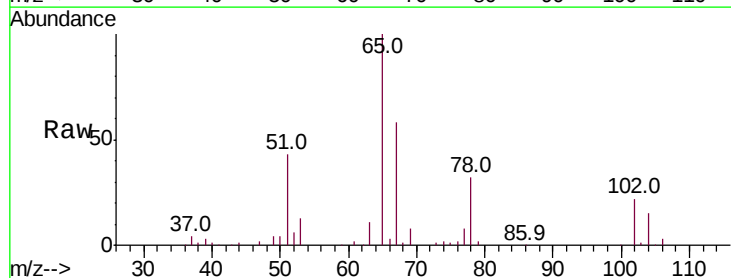
Manual Integrations
APPROVED

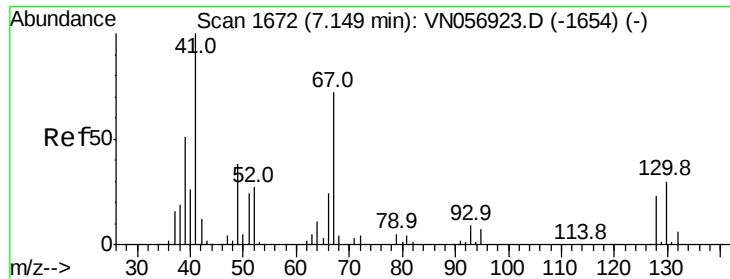
MMDadoda
7/26/2019 3:37:39 PM



#40
Benzene
Concen: 2.396 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	78	Resp	47178
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	19.5	29.3





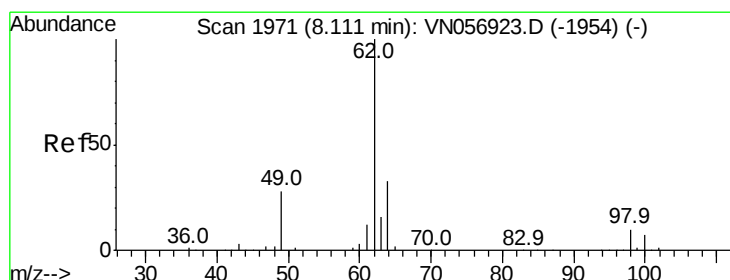
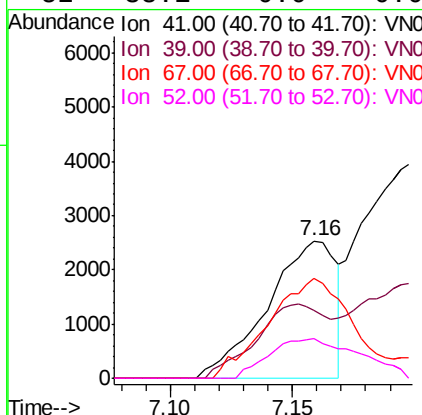
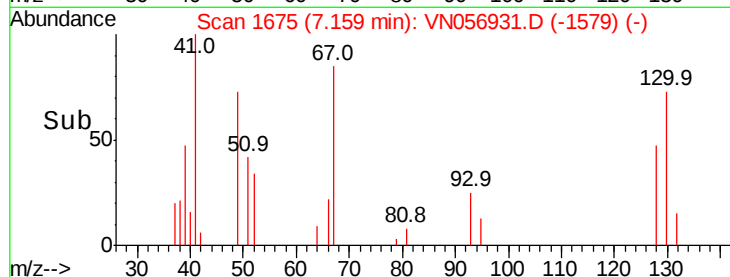
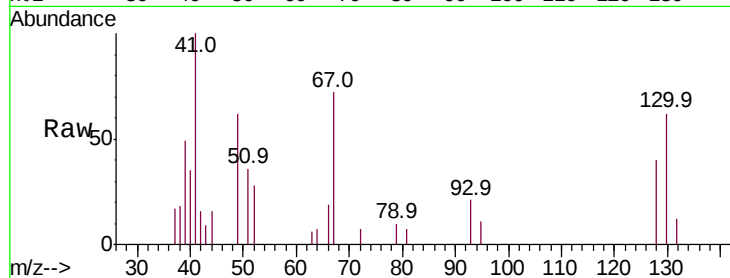
#41
Methacrylonitrile
Concen: 2.180 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. 0.01 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.7	0.0	0.0#
67	88.8	0.0	0.0#
52	38.1	0.0	0.0#

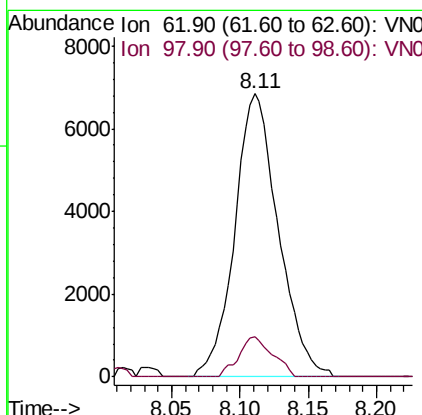
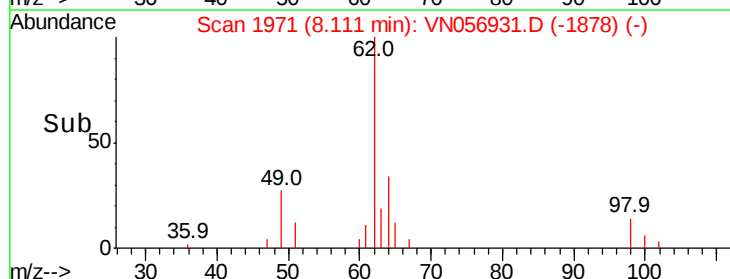
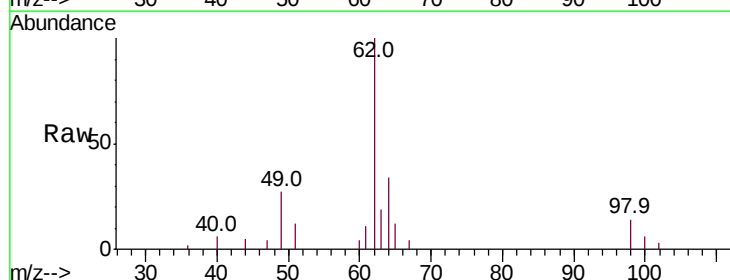
Manual Integrations
APPROVED

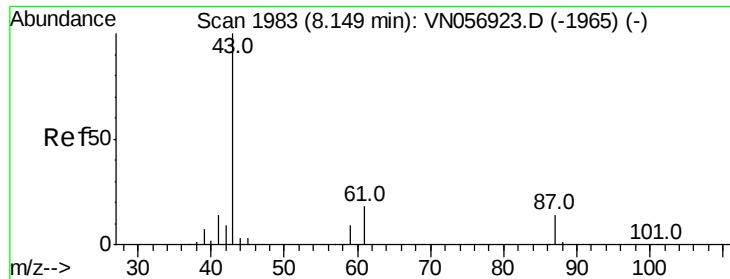
MMDadoda
7/26/2019 3:37:39 PM



#42
1,2-Dichloroethane
Concen: 2.494 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	20.8





#43

Isopropyl Acetate

Concen: 2.265 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

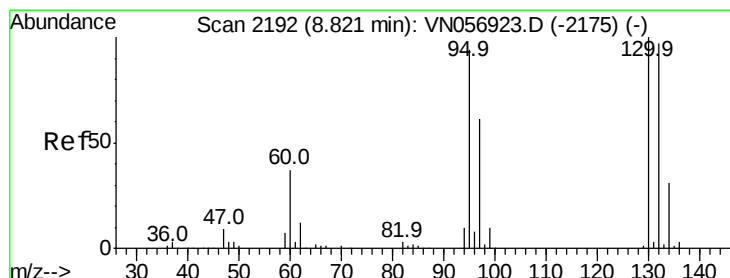
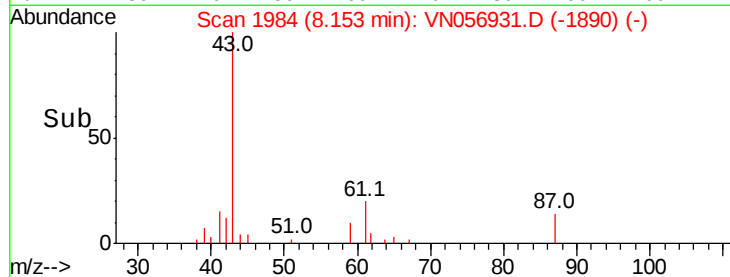
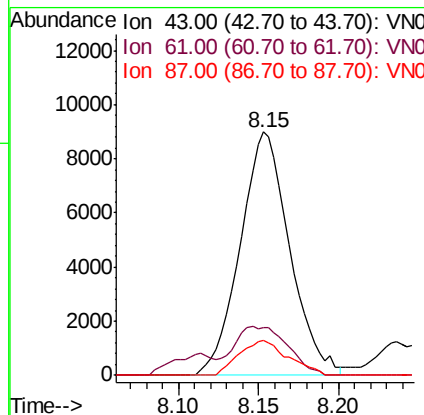
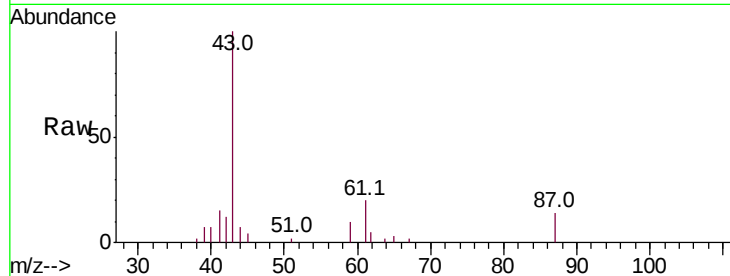
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	43	Resp:	19069
Ion	Ratio	Lower	Upper
43	100		
61	22.0	23.8	35.6#
87	14.2	11.8	17.6

Manual Integrations
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MMDadoda
7/26/2019 3:37:39 PM



#44

Trichloroethene

Concen: 2.237 ug/l

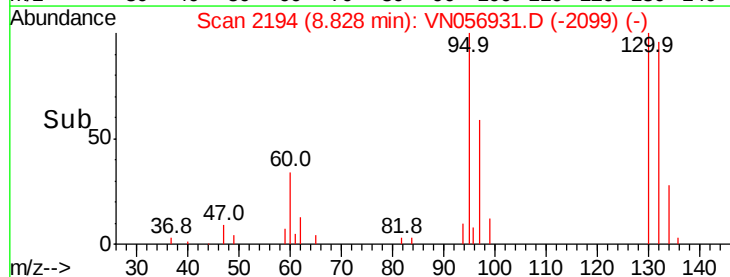
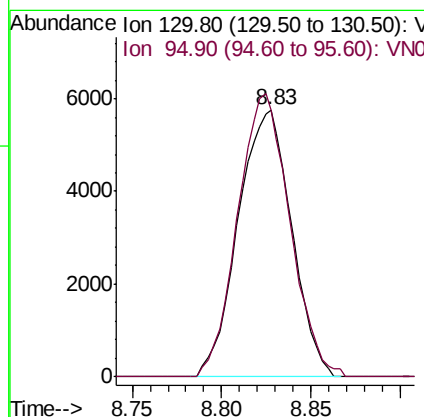
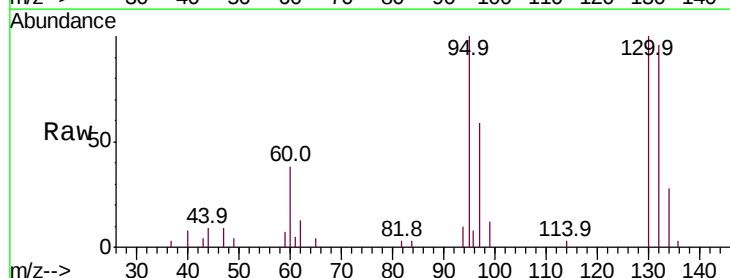
RT: 8.83 min Scan# 2194

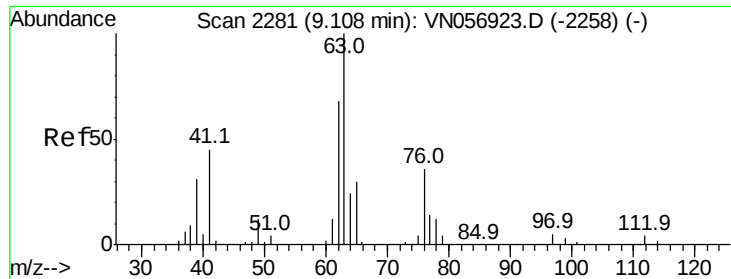
Delta R.T. 0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion:	130	Resp:	12018
Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	187.6





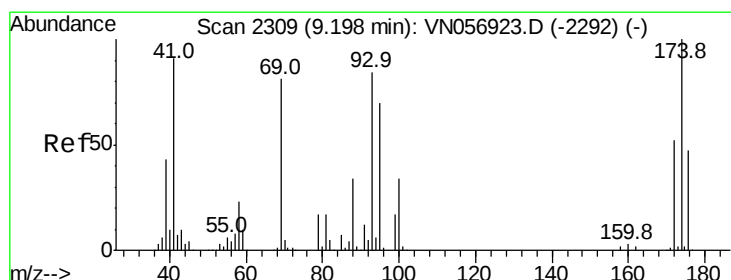
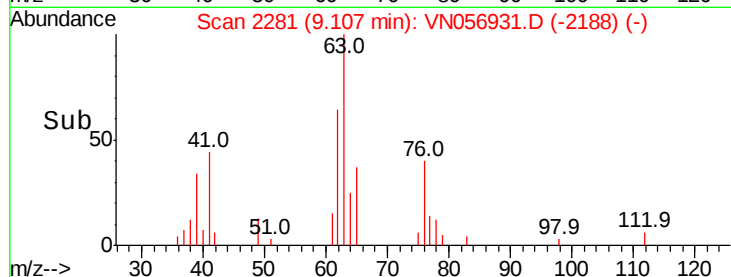
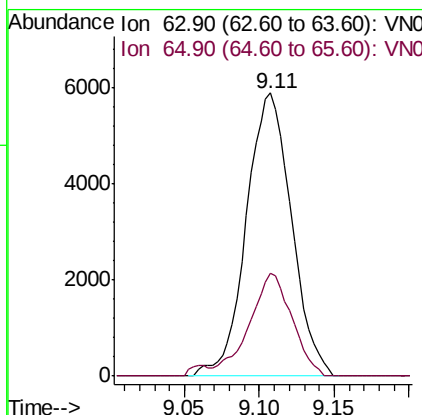
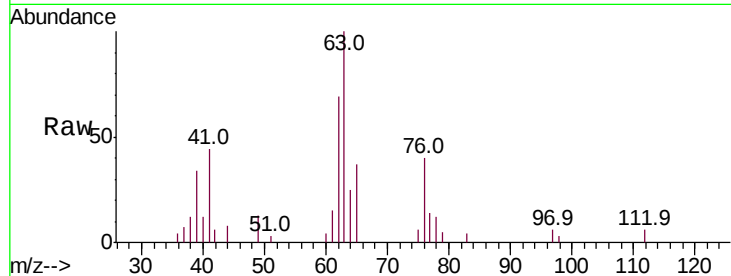
#45
 1,2-Dichloropropane
 Concen: 2.335 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 63 Resp: 12356
 Ion Ratio Lower Upper
 63 100
 65 36.6 24.5 36.7

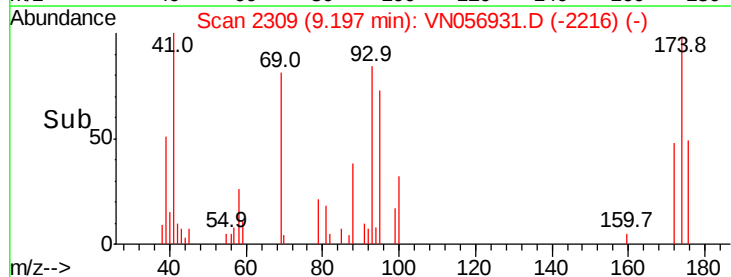
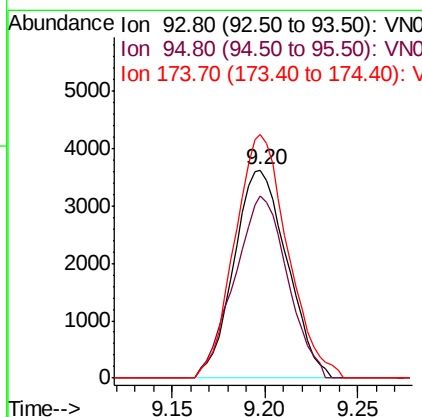
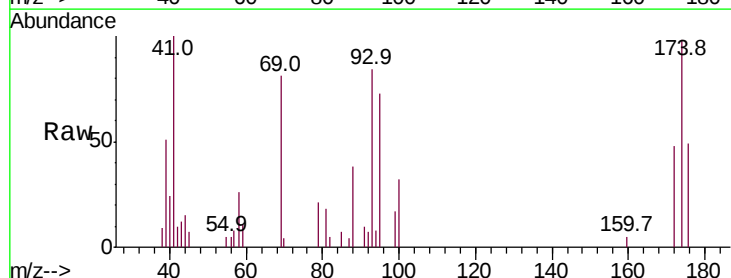
Manual Integrations
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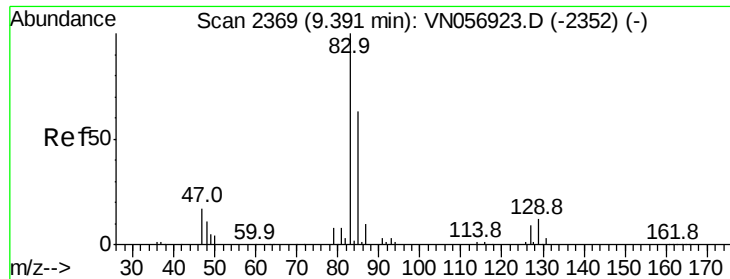
MMDadoda
 7/26/2019 3:37:39 PM



#46
 Dibromomethane
 Concen: 2.260 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion: 93 Resp: 7209
 Ion Ratio Lower Upper
 93 100
 95 87.4 66.8 100.2
 174 116.8 92.9 139.3





#47

Bromodichloromethane

Concen: 2.131 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

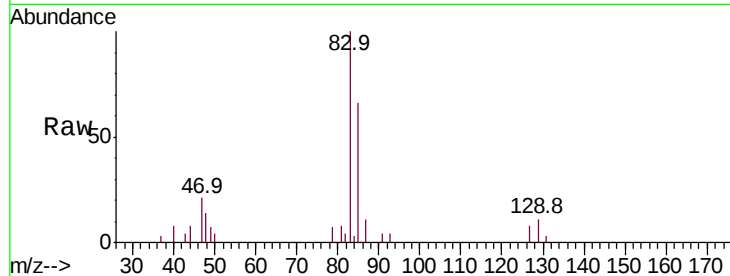
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

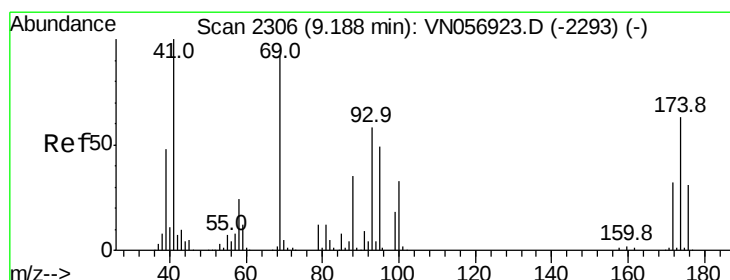
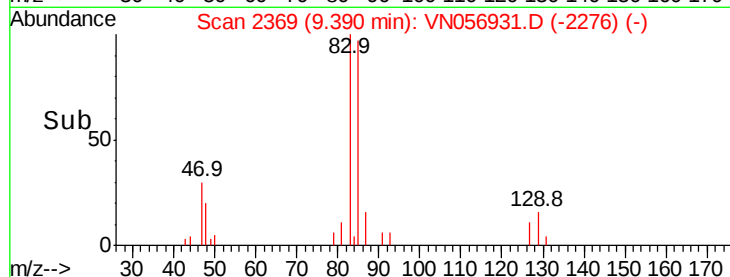
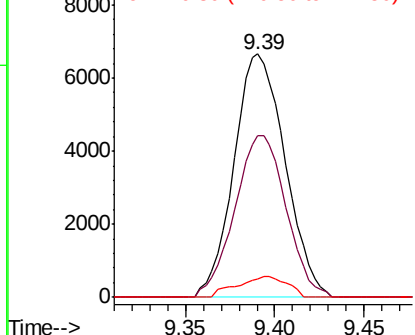
Tot Ion:	83	Resp:	13279
Ion Ratio	Lower	Upper	
83	100		
85	66.3	50.5	75.7
127	7.7	7.4	11.0

Manual Integrations
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7/26/2019 3:37:39 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 2.314 ug/l

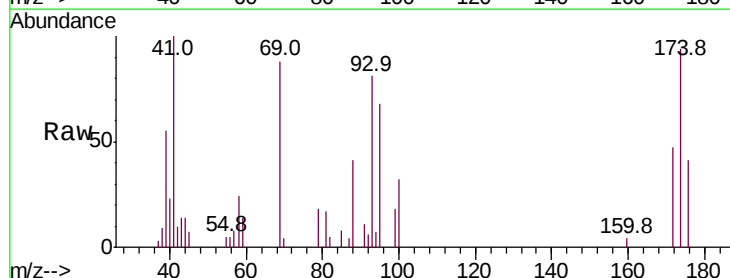
RT: 9.19 min Scan# 2308

Delta R.T. 0.01 min

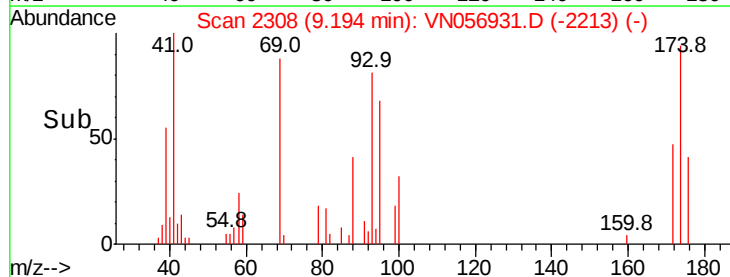
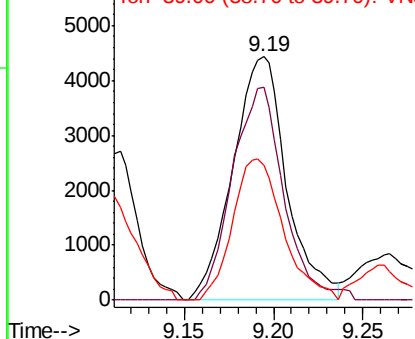
Lab File: VN056931.D

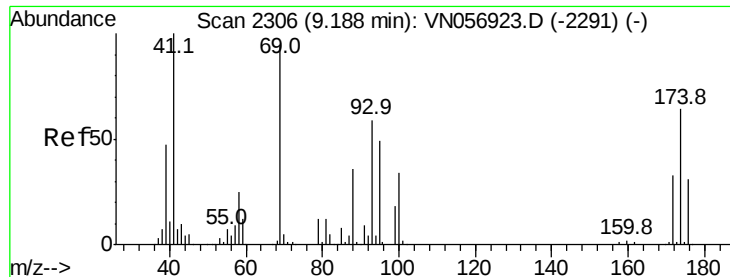
Acq: 25 Jul 2019 20:04

Tgt Ion:	41	Resp:	9351
Ion Ratio	Lower	Upper	
41	100		
69	82.6	73.4	110.0
39	54.5	40.1	60.1



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





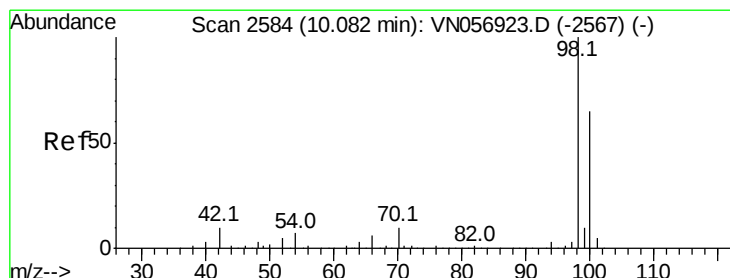
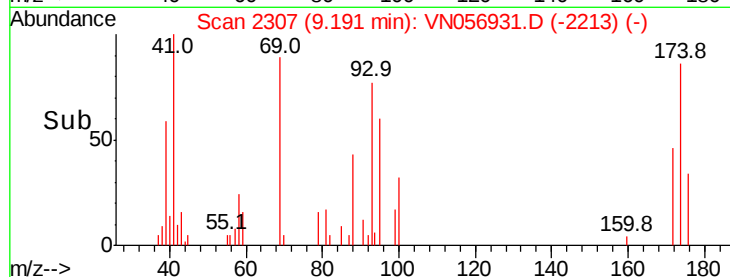
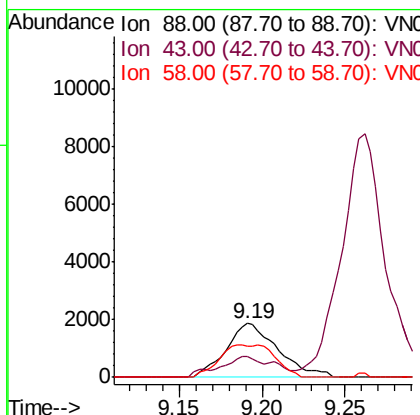
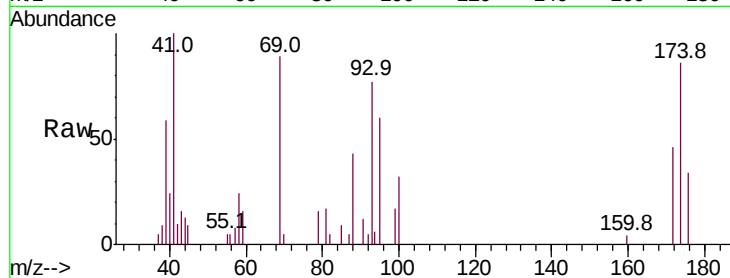
#49
1,4-Dioxane
Concen: 47.893 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 88 Resp: 4053
Ion Ratio Lower Upper
88 100
43 29.6 21.1 31.7
58 34.1 52.5 78.7#

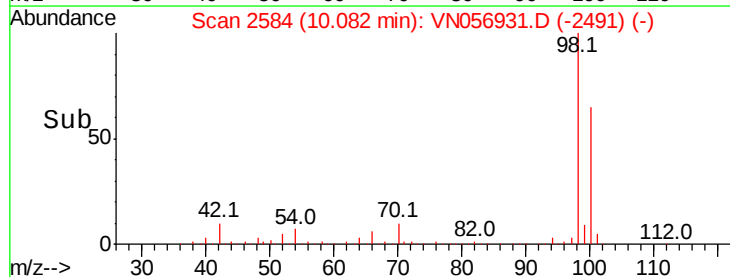
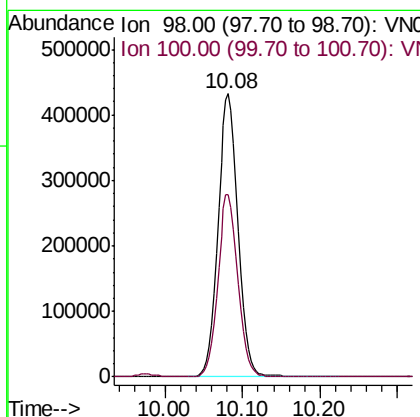
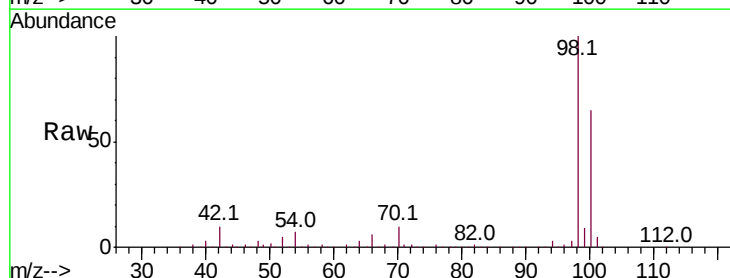
Manual Integrations
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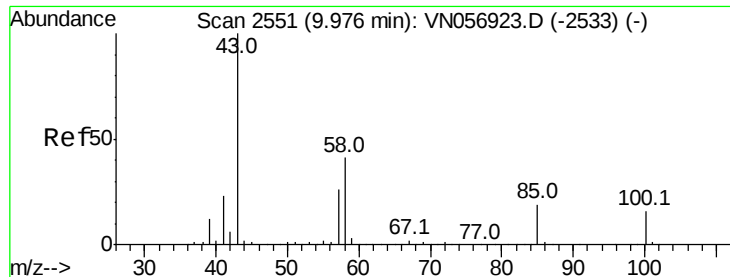
MMDadoda
7/26/2019 3:37:39 PM



#50
Toluene-d8
Concen: 46.747 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion: 98 Resp: 782292
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 11.396 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 57044

Ion Ratio Lower Upper

43 100

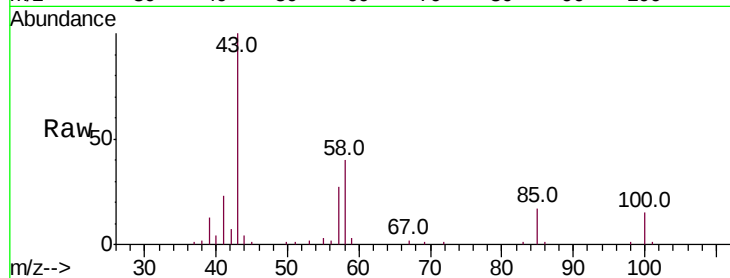
58 37.7 32.8 49.2

Manual Integrations

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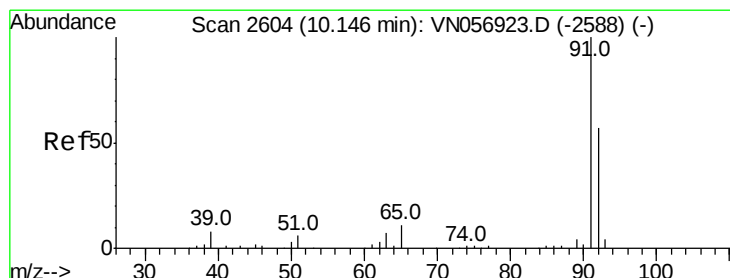
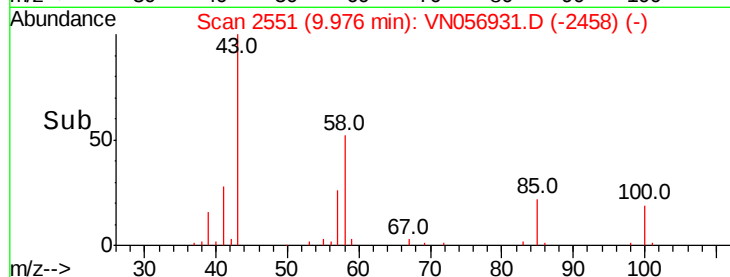
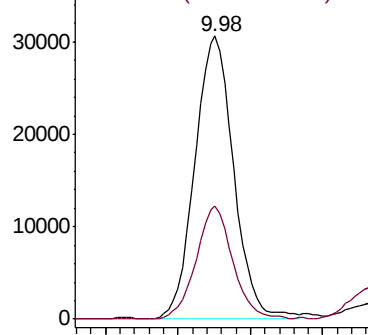
MMDadoda

7/26/2019 3:37:39 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 2.311 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN056931.D

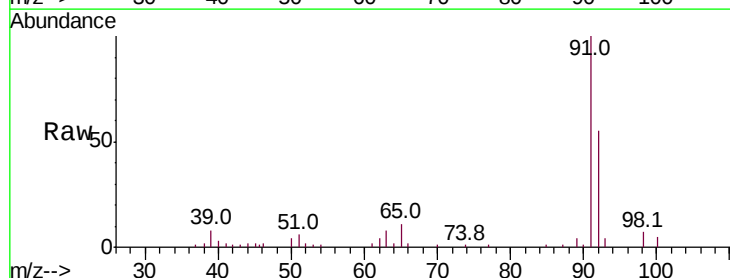
Acq: 25 Jul 2019 20:04

Tgt Ion: 92 Resp: 27290

Ion Ratio Lower Upper

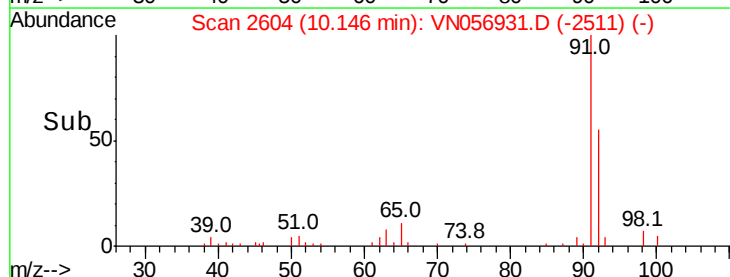
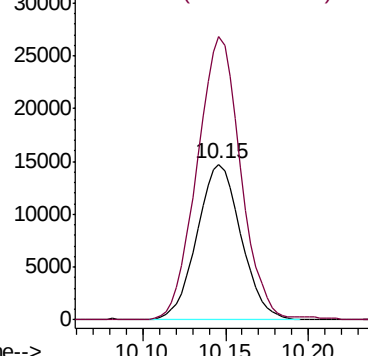
92 100

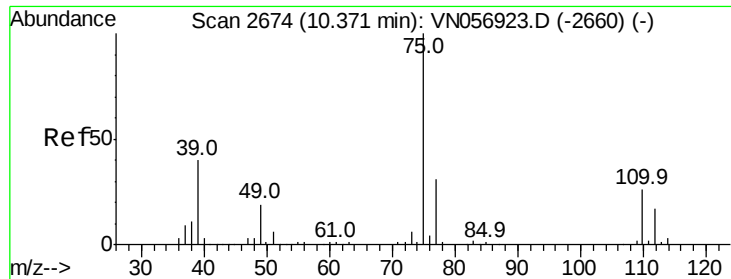
91 179.4 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





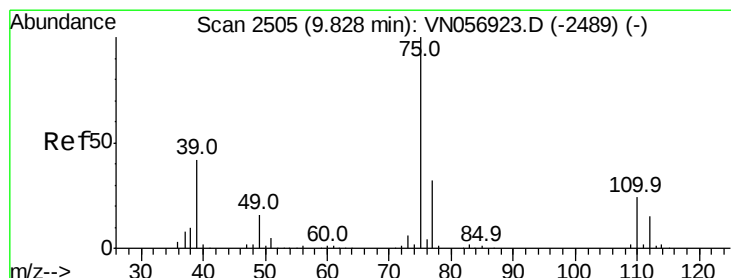
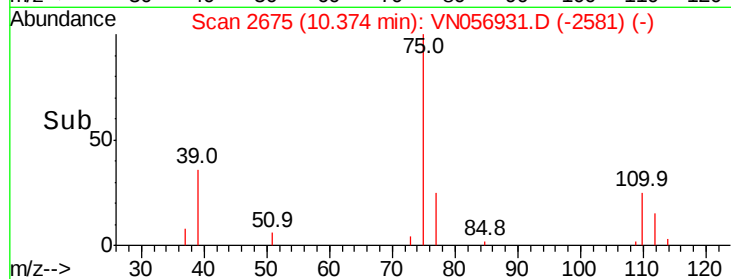
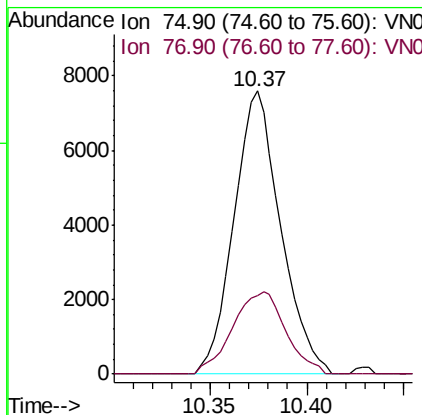
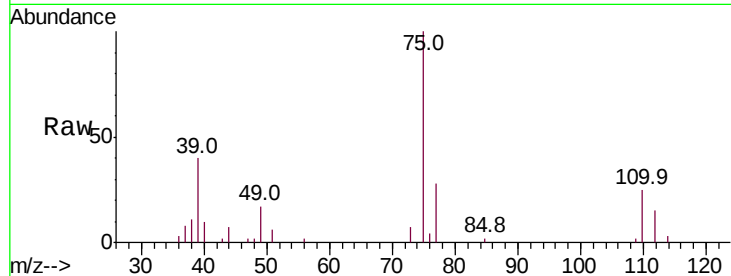
#53
 t-1,3-Dichloropropene
 Concen: 2.028 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 75 Resp: 12736
 Ion Ratio Lower Upper
 75 100
 77 28.0 25.0 37.6

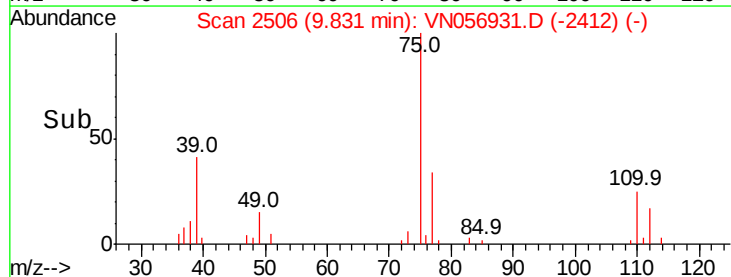
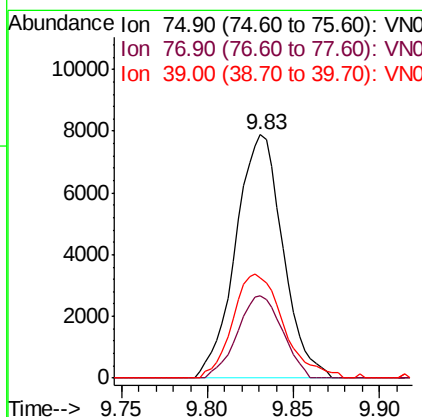
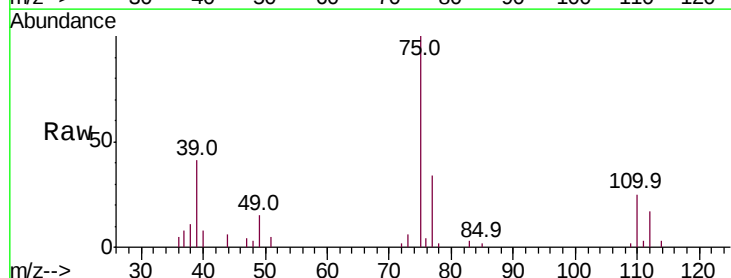
Manual Integrations
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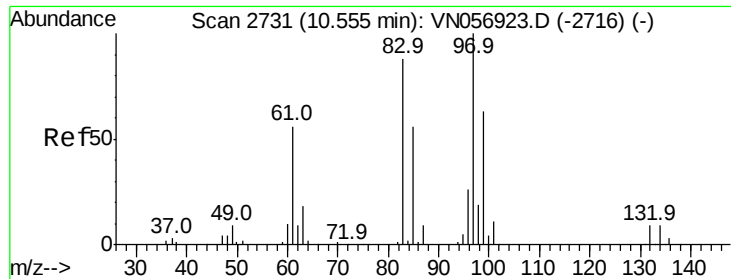
MMDadoda
 7/26/2019 3:37:39 PM



#54
 cis-1,3-Dichloropropene
 Concen: 2.038 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion: 75 Resp: 15073
 Ion Ratio Lower Upper
 75 100
 77 33.6 25.4 38.0
 39 41.3 33.4 50.0





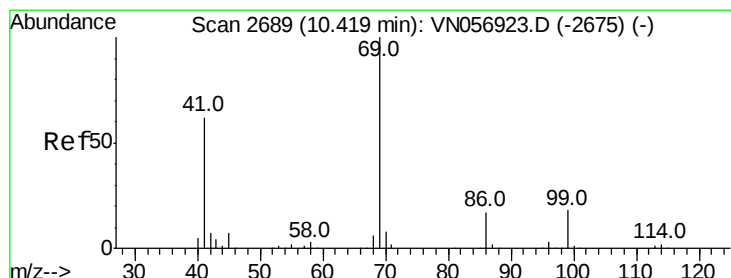
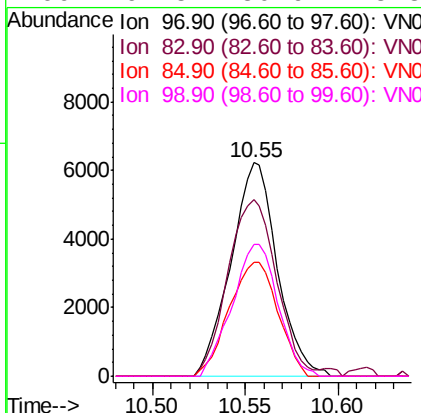
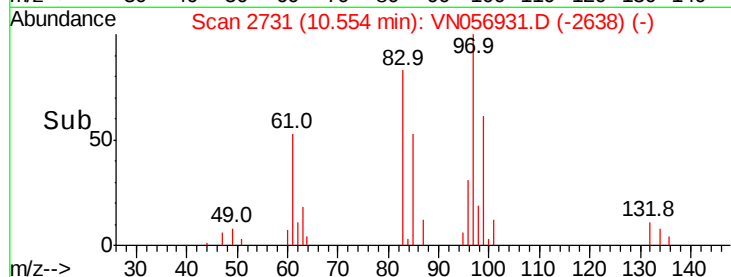
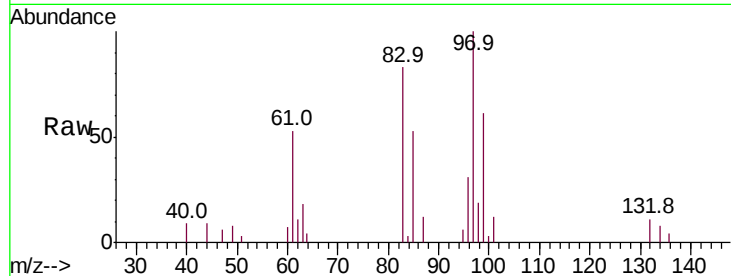
#55
1,1,2-Trichloroethane
Concen: 2.279 ug/l
RT: 10.55 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	97	Resp	10787
Ion	Ratio	Lower	Upper
97	100		
83	82.8	70.1	105.1
85	53.3	45.1	67.7
99	61.5	50.6	75.8

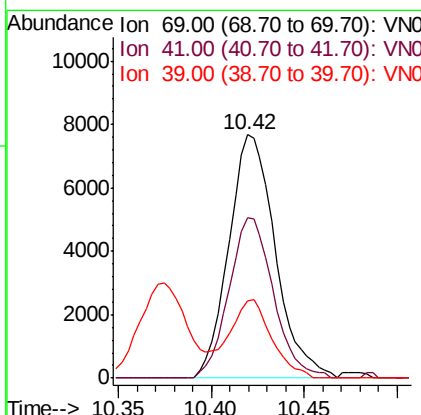
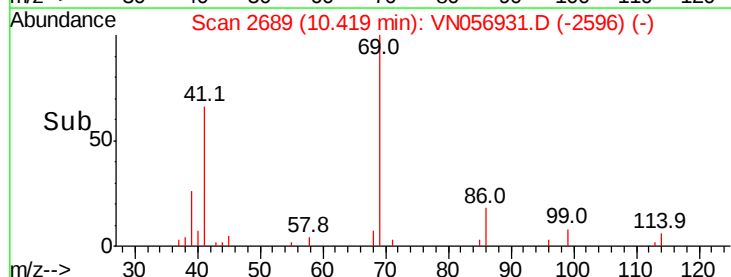
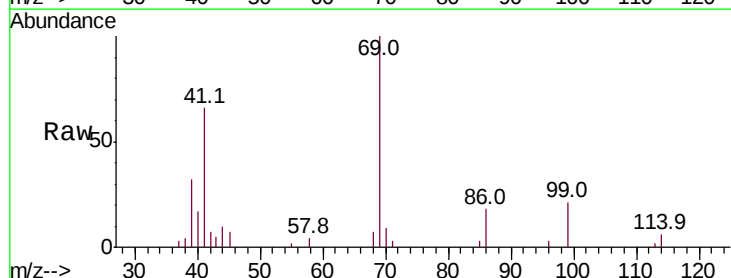
Manual Integrations
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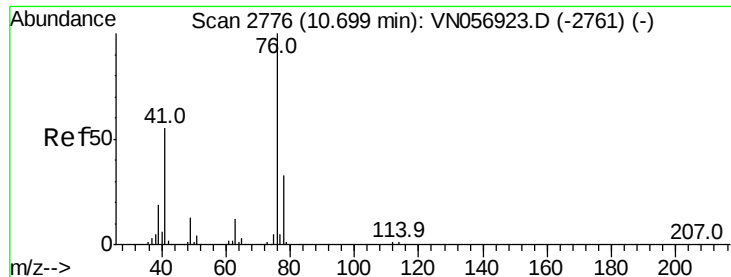
MMDadoda
7/26/2019 3:37:39 PM



#56
Ethyl methacrylate
Concen: 2.100 ug/l
RT: 10.42 min Scan# 2689
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	69	Resp	13363
Ion	Ratio	Lower	Upper
69	100		
41	63.0	49.7	74.5
39	29.1	23.6	35.4





#57

1,3-Dichloropropane

Concen: 2.394 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 18546

Ion Ratio Lower Upper

76 100

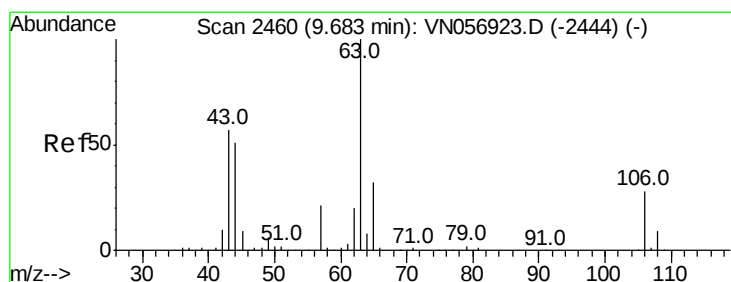
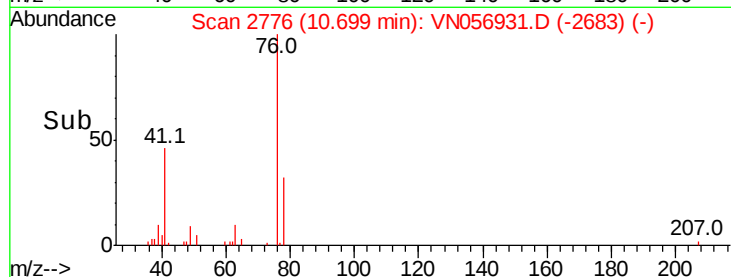
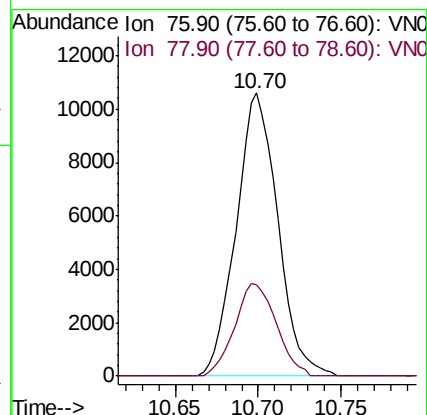
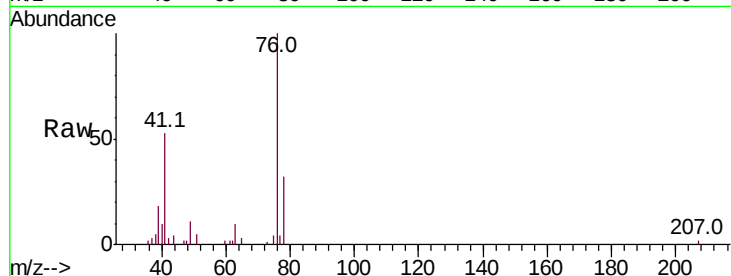
78 32.6 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 10.029 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN056931.D

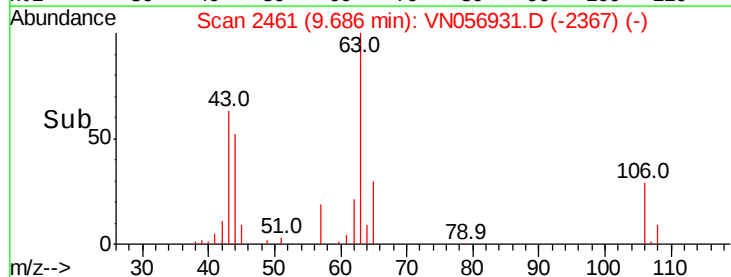
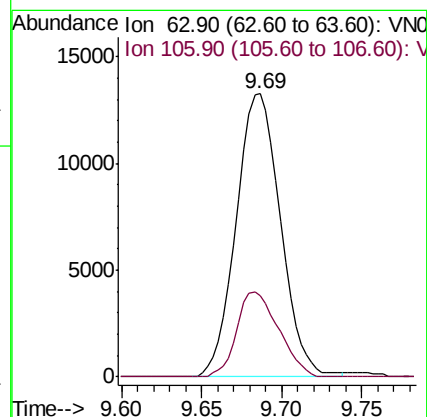
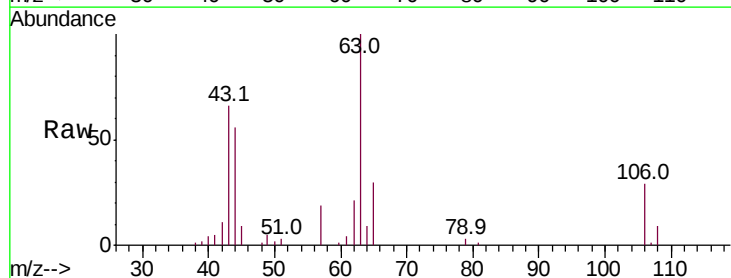
Acq: 25 Jul 2019 20:04

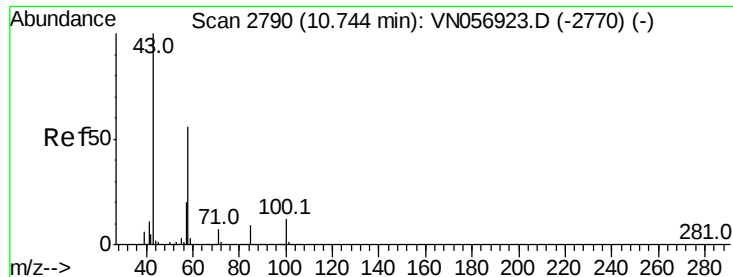
Tgt Ion: 63 Resp: 25157

Ion Ratio Lower Upper

63 100

106 28.3 22.2 33.4





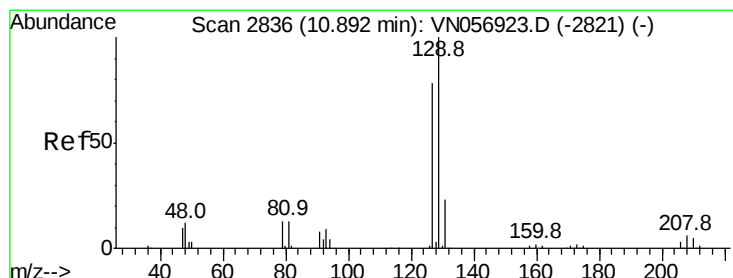
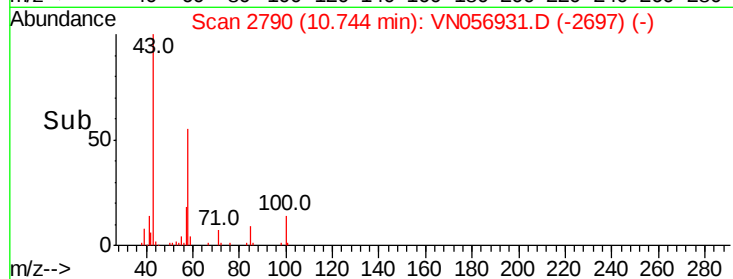
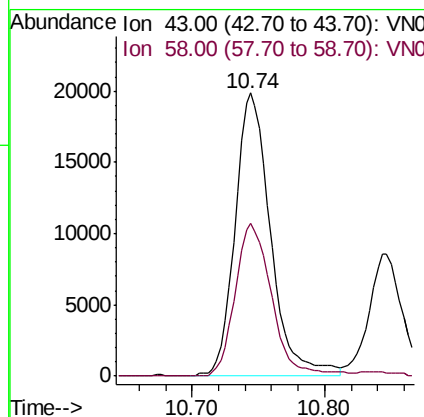
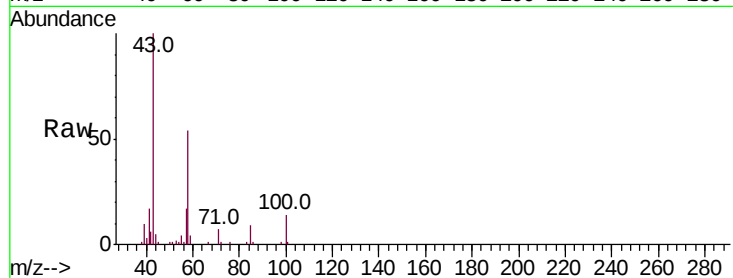
#59
2-Hexanone
Concen: 10.767 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 36950
Ion Ratio Lower Upper
43 100
58 55.6 28.2 84.6

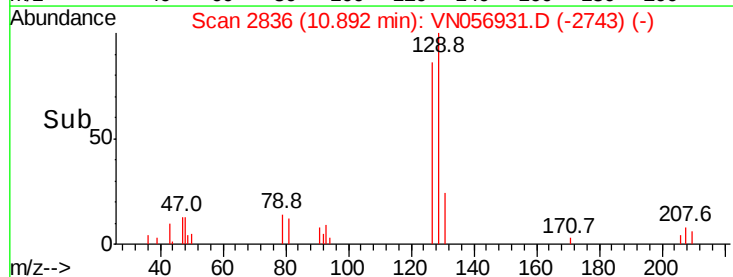
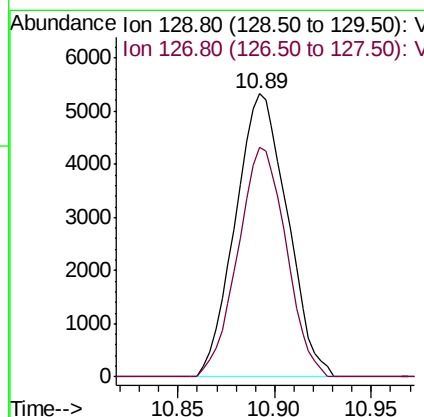
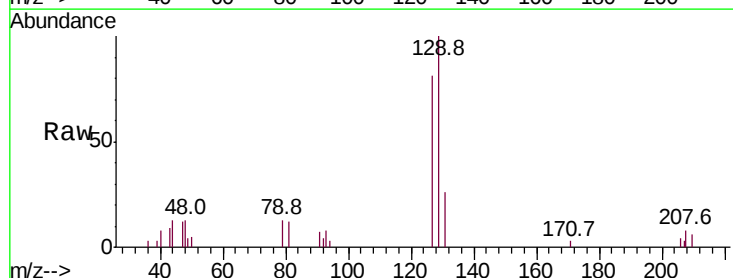
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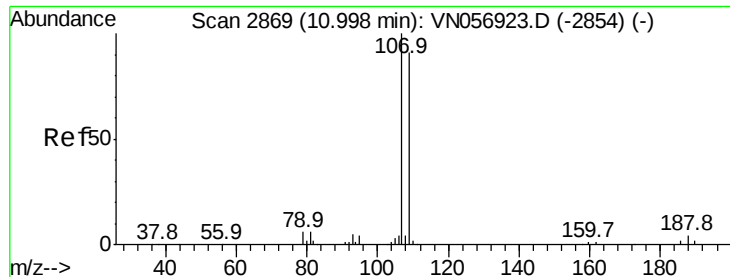
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#60
Dibromochloromethane
Concen: 2.070 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion: 129 Resp: 9956
Ion Ratio Lower Upper
129 100
127 75.3 38.4 115.2





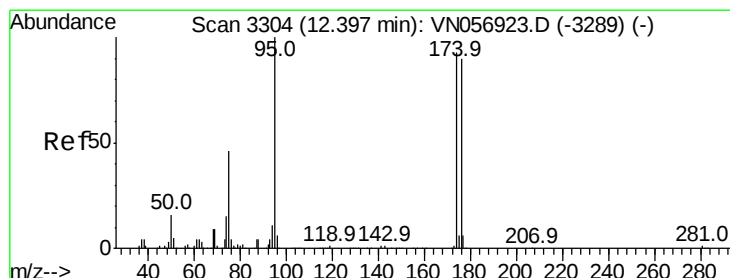
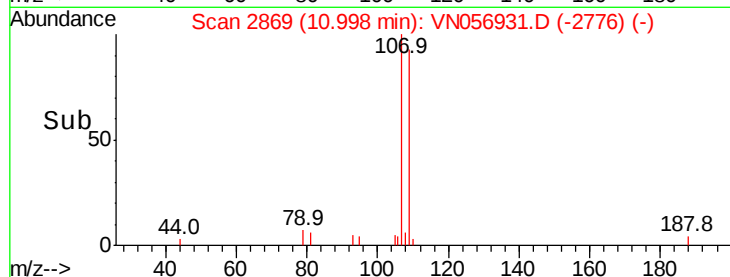
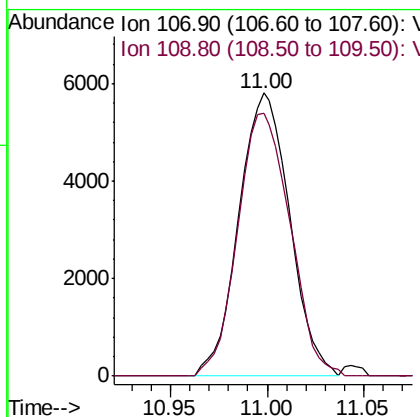
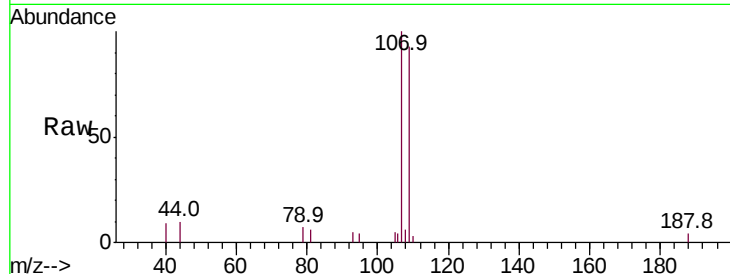
#61
 1,2-Dibromoethane
 Concen: 2.251 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	74.8	112.2

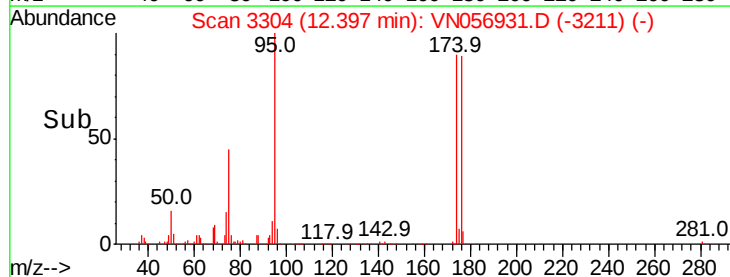
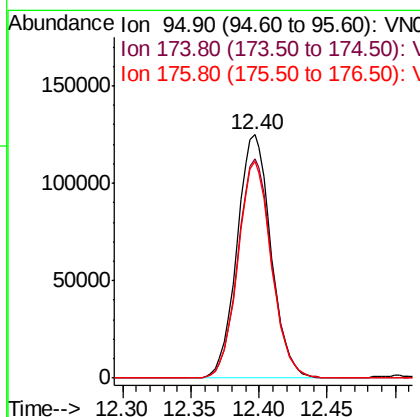
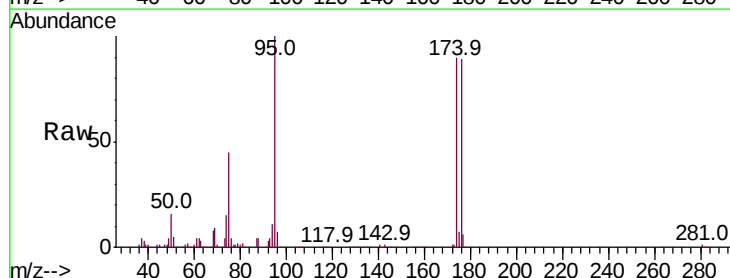
Manual Integrations
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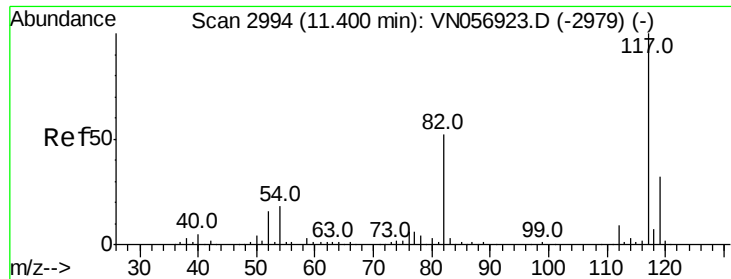
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#62
 4-Bromofluorobenzene
 Concen: 39.413 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	186.2
176	87.9	0.0	179.6





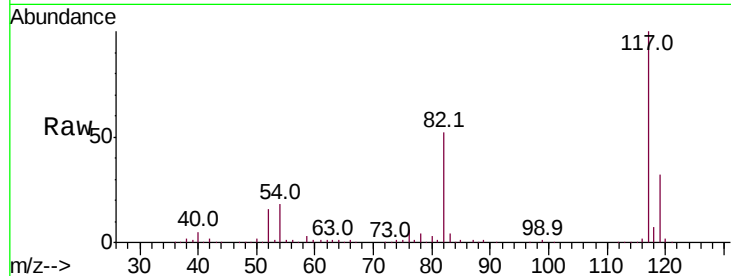
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	574916		
82	52.0		41.7	62.5
119	32.0		25.5	38.3

Manual Integrations
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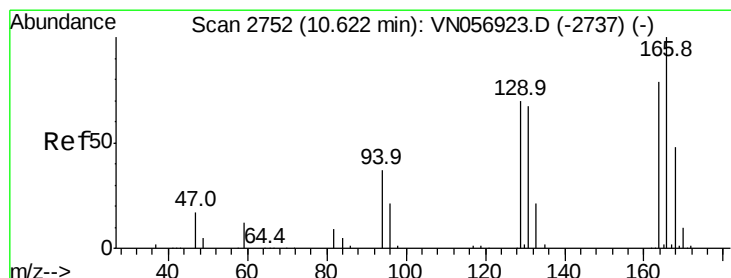
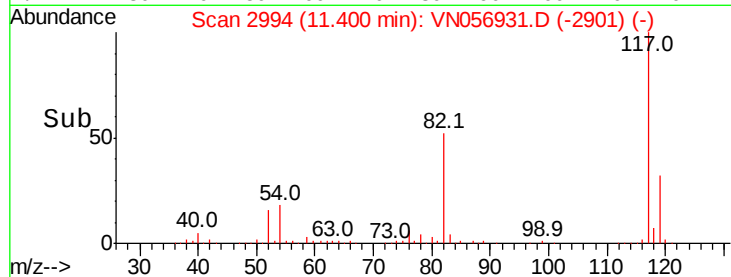
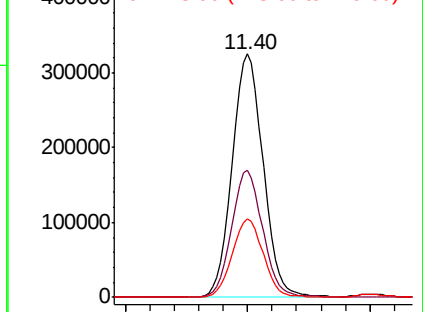


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 2.698 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	14171		
166	119.0		101.6	152.4
129	82.2		70.9	106.3
131	75.2		68.4	102.6

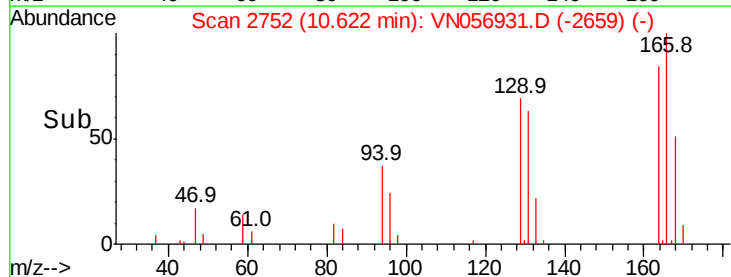
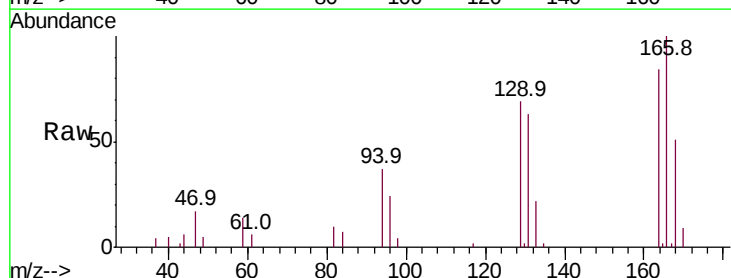
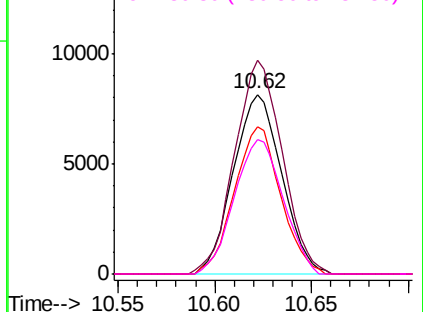
Abundance

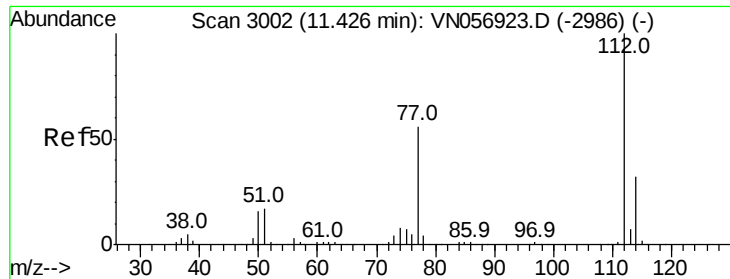
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 2.448 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:112 Resp: 29443

Ion Ratio Lower Upper

112 100

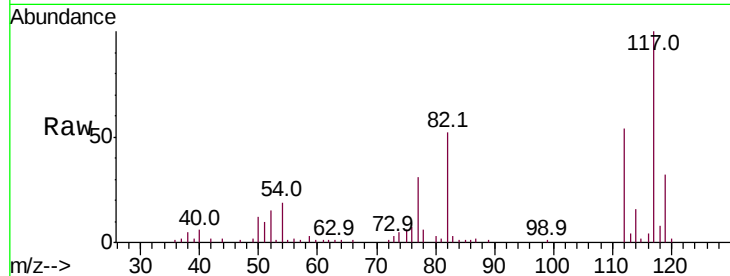
114 29.2 25.8 38.8

Manual Integrations

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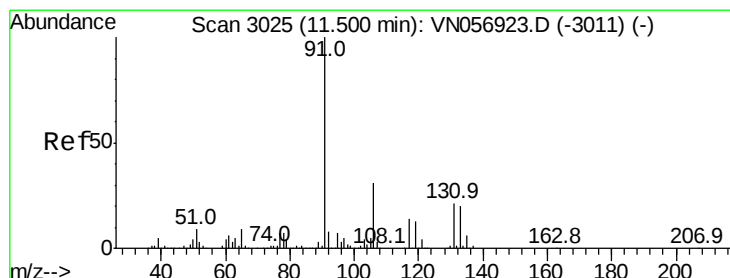
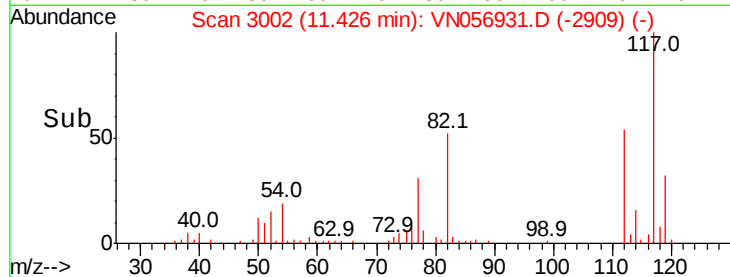
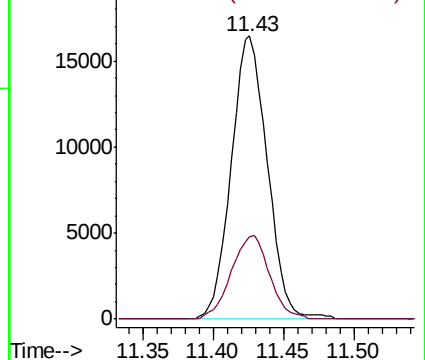
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.267 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

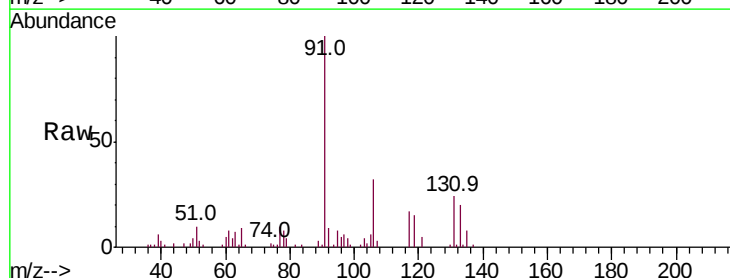
Tgt Ion:131 Resp: 10143

Ion Ratio Lower Upper

131 100

133 97.0 47.1 141.4

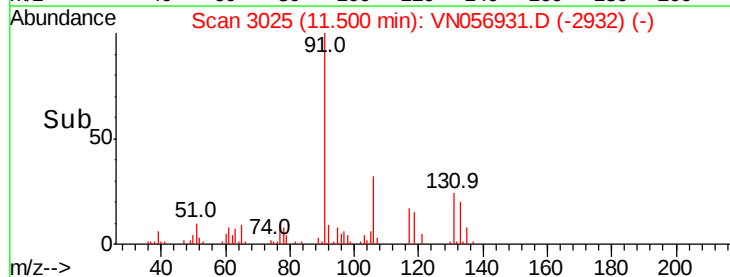
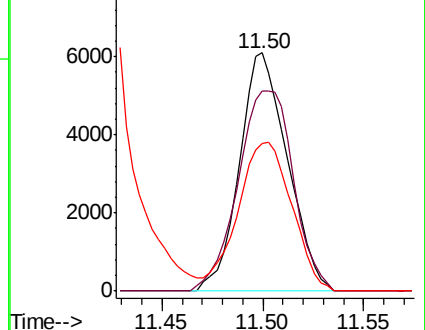
119 70.2 32.6 98.0

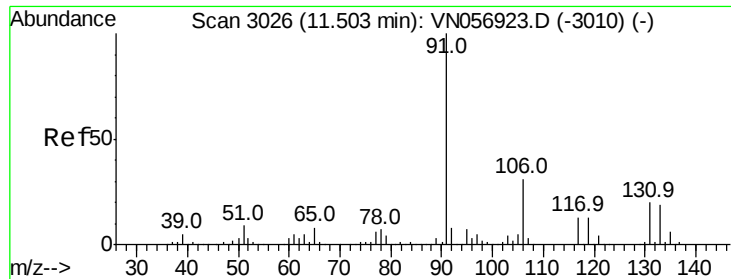


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 2.277 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 47150

Ion Ratio Lower Upper

91 100

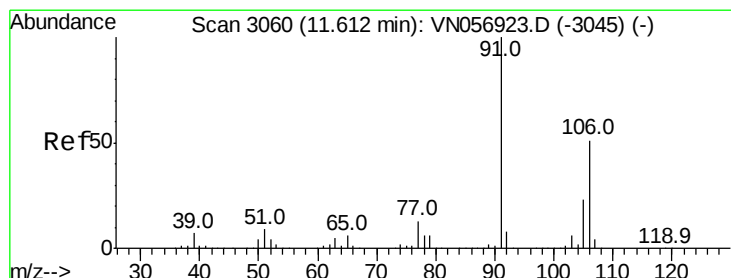
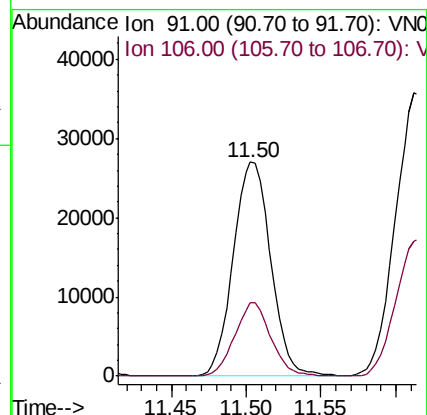
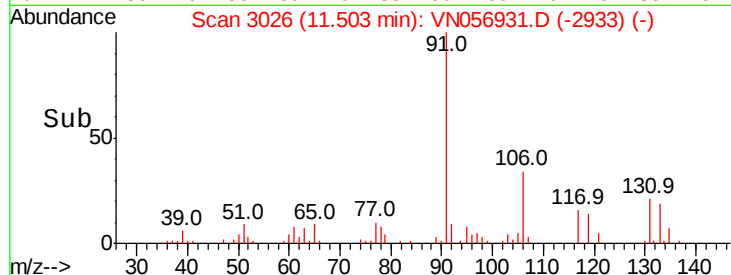
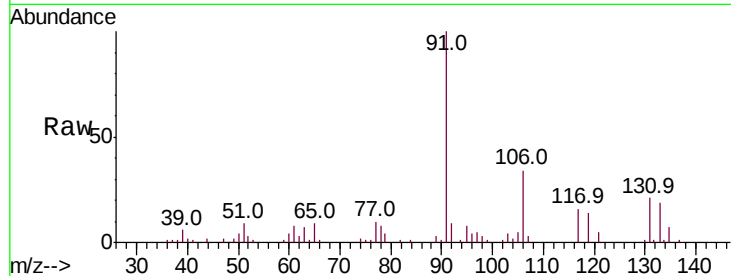
106 34.4 24.9 37.3

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#68

m/p-Xylenes

Concen: 4.337 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN056931.D

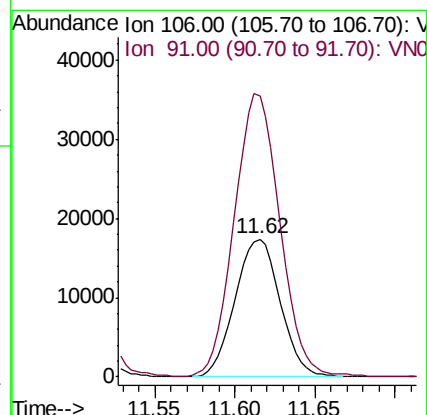
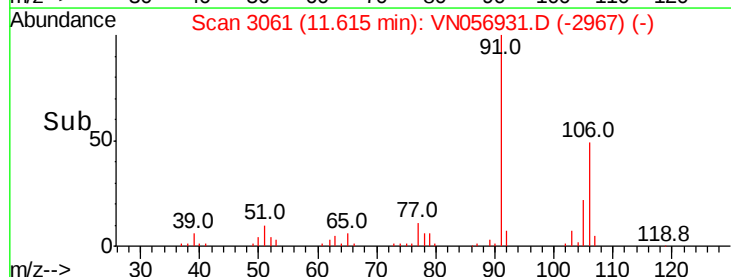
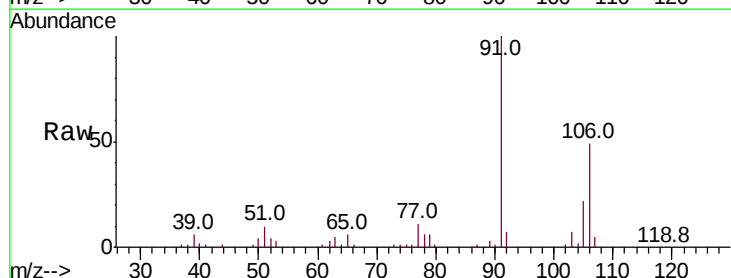
Acq: 25 Jul 2019 20:04

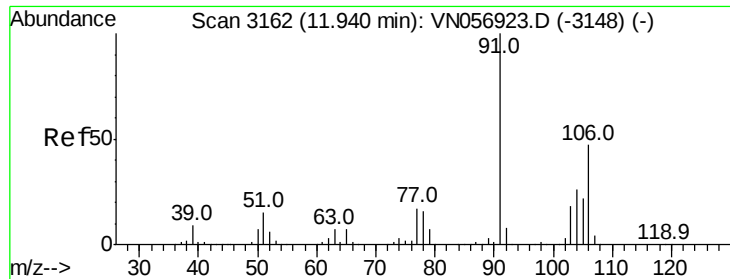
Tgt Ion: 106 Resp: 33492

Ion Ratio Lower Upper

106 100

91 208.0 159.6 239.4





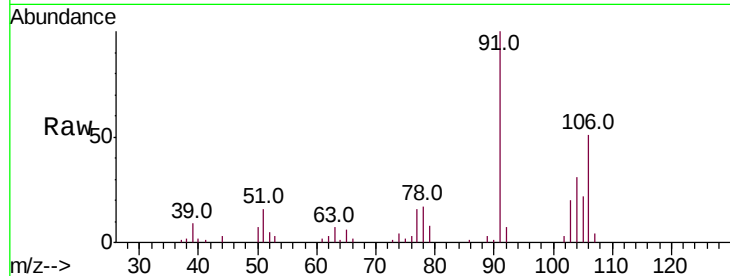
#69
o-Xylene
Concen: 2.337 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

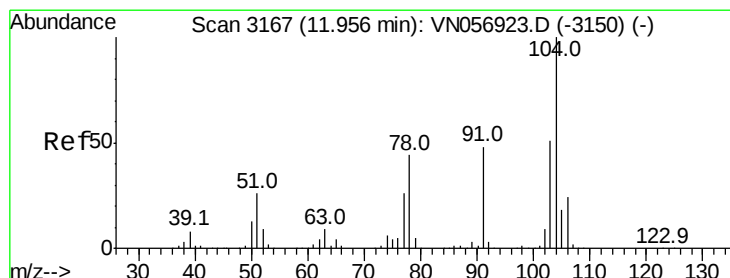
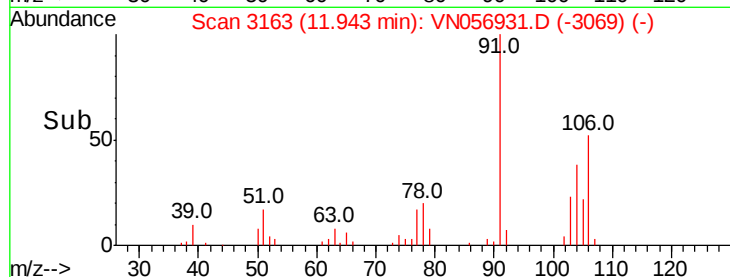
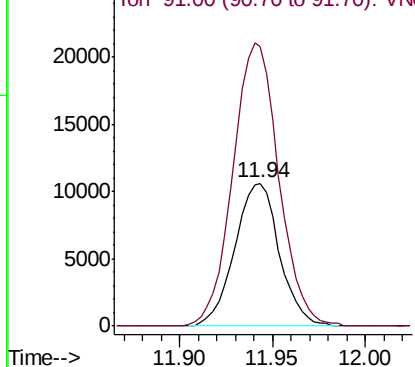
Tot Ion:106 Resp: 17658
Ion Ratio Lower Upper
106 100
91 204.9 105.7 317.0

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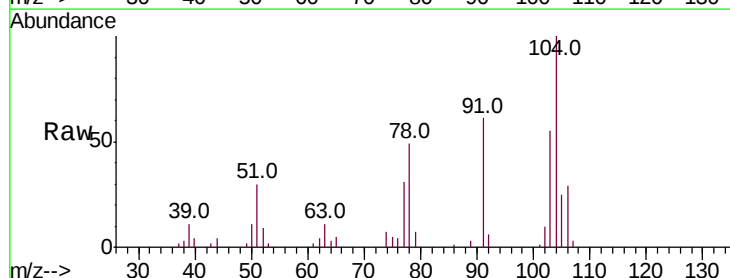


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

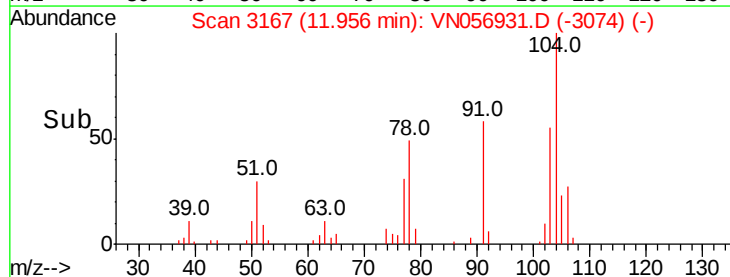
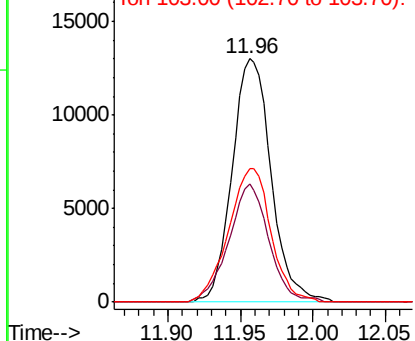


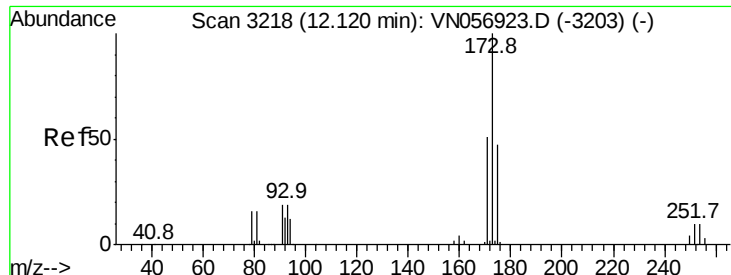
#70
Styrene
Concen: 2.028 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion:104 Resp: 24280
Ion Ratio Lower Upper
104 100
78 49.5 38.5 57.7
103 59.9 44.1 66.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 1.942 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:173 Resp: 6033

Ion Ratio Lower Upper

173 100

175 49.1 24.2 72.6

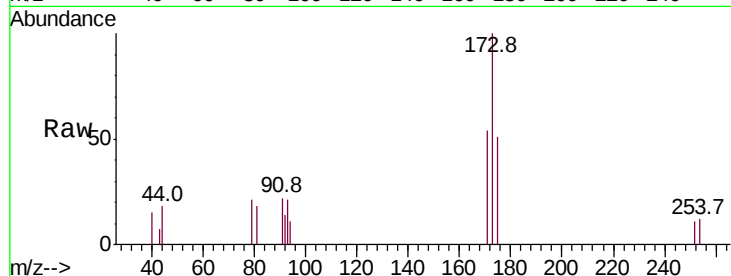
254 0.0 0.1 0.1#

Manual Integrations

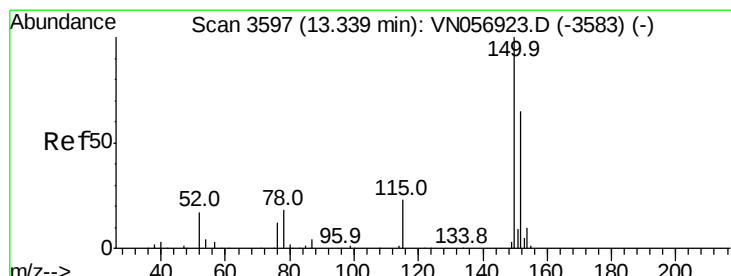
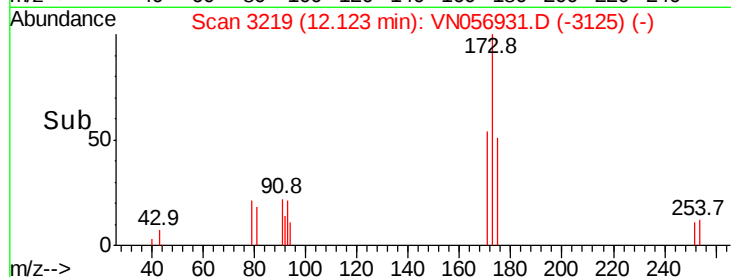
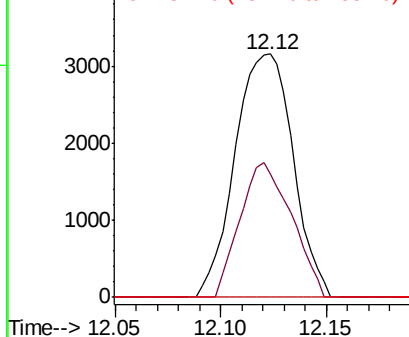
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

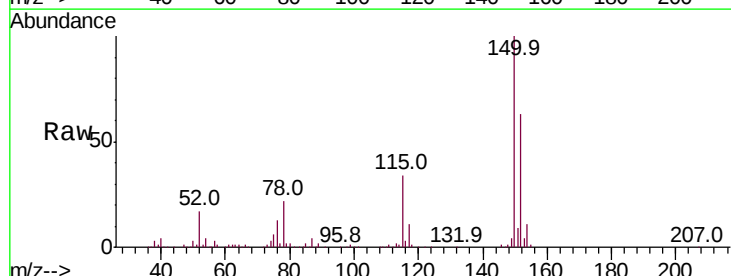
Tgt Ion:152 Resp: 172253

Ion Ratio Lower Upper

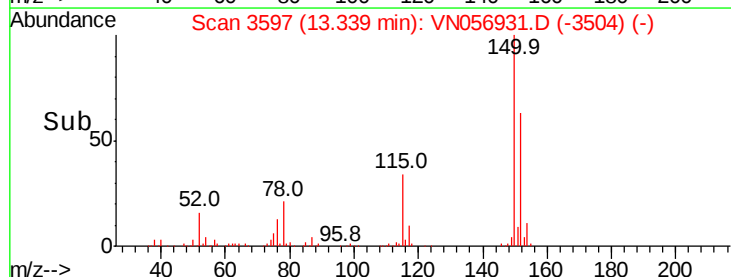
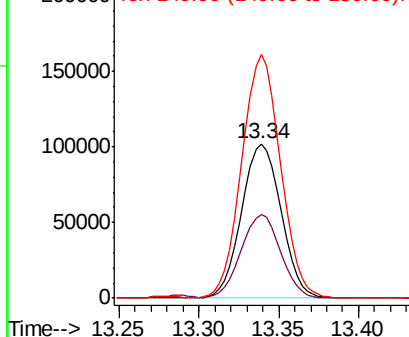
152 100

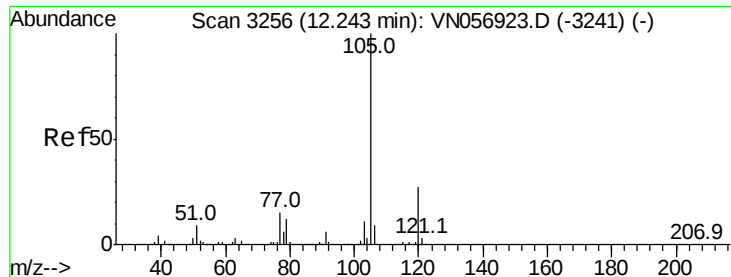
115 54.1 27.9 83.7

150 154.1 0.0 354.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.809 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:105 Resp: 44037

Ion Ratio Lower Upper

105 100

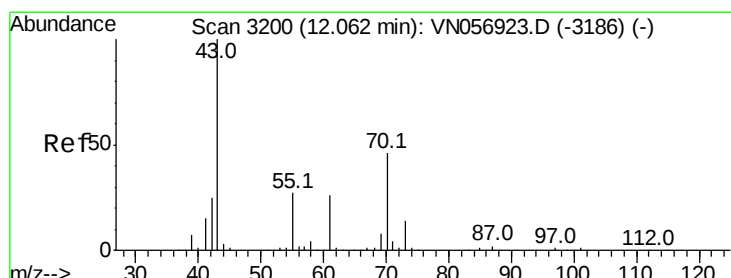
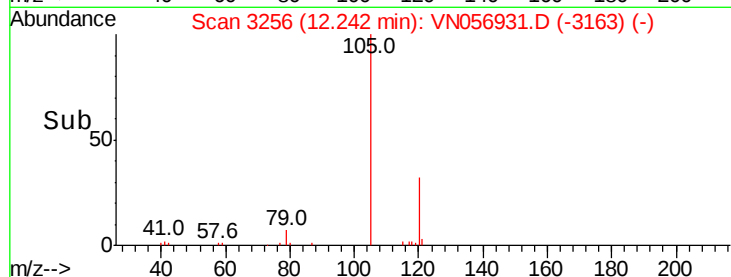
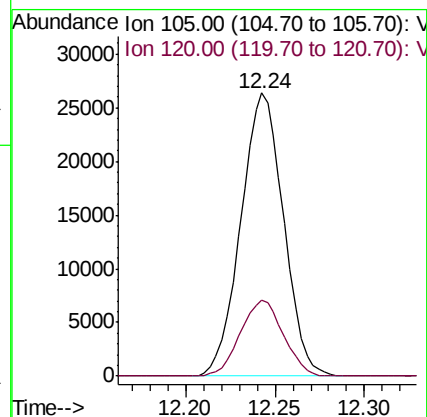
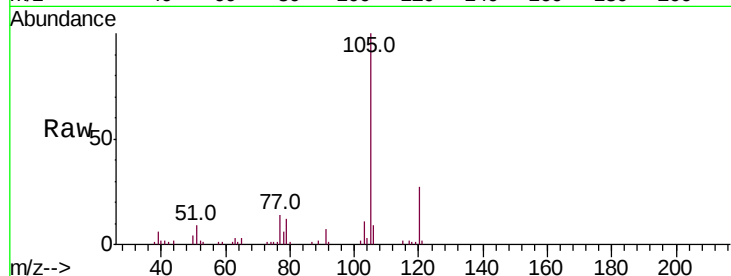
120 27.0 13.4 40.1

Manual Integrations

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#74

N-ethyl acetate

Concen: 2.743 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion: 43 Resp: 12622

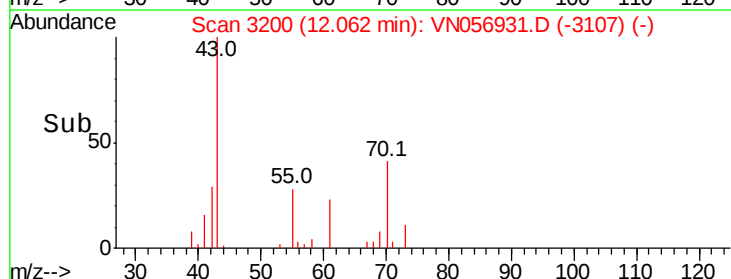
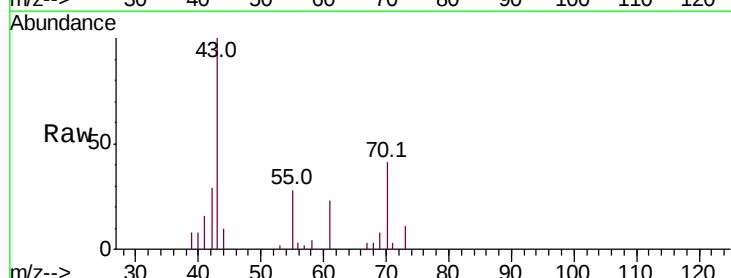
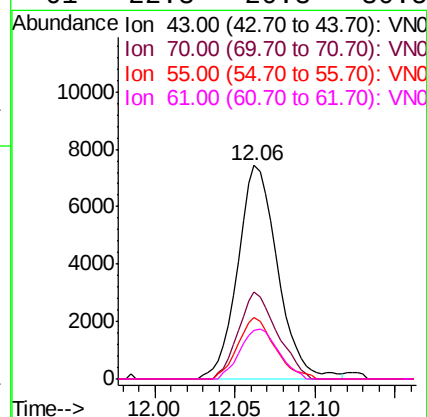
Ion Ratio Lower Upper

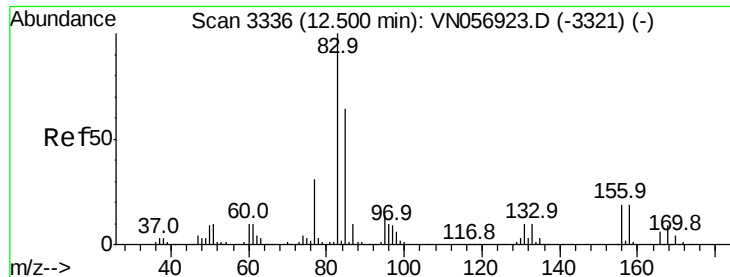
43 100

70 39.2 35.9 53.9

55 26.6 21.4 32.2

61 22.3 20.3 30.5





#75

1,1,2,2-Tetrachloroethane

Concen: 2.990 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

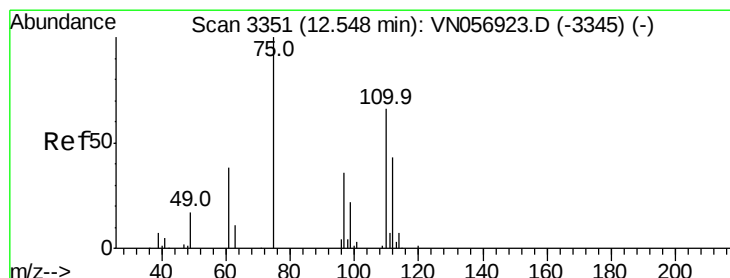
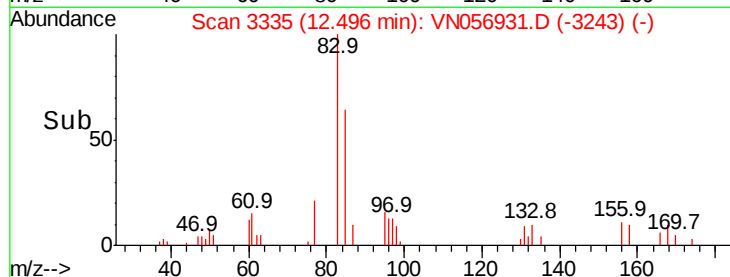
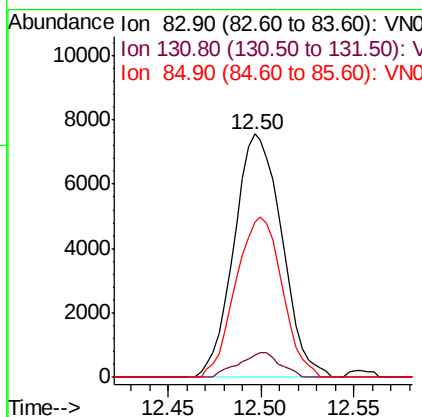
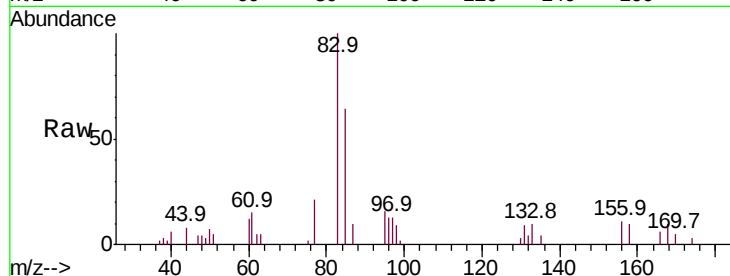
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	83	Resp:	13506
Ion Ratio	Lower	Upper	
83	100		
131	8.8	5.3	15.8
85	64.0	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.932 ug/l m

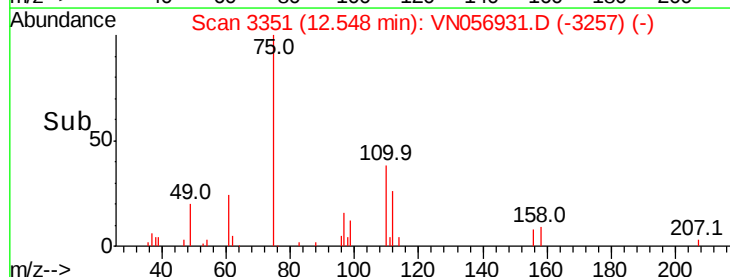
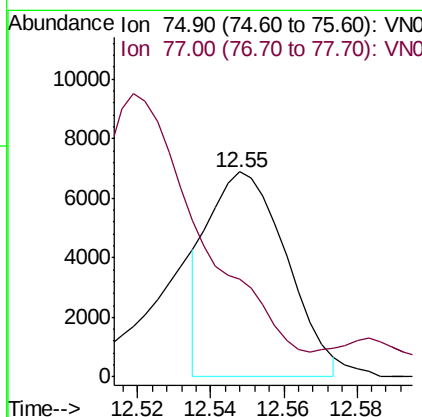
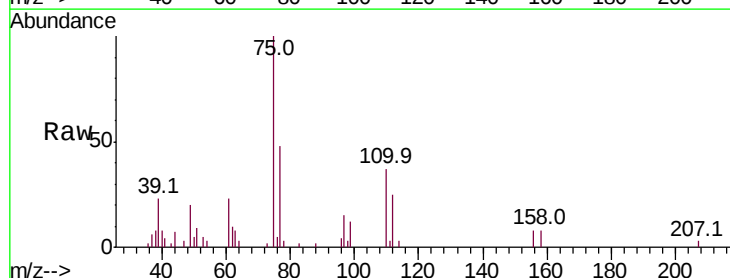
RT: 12.55 min Scan# 3351

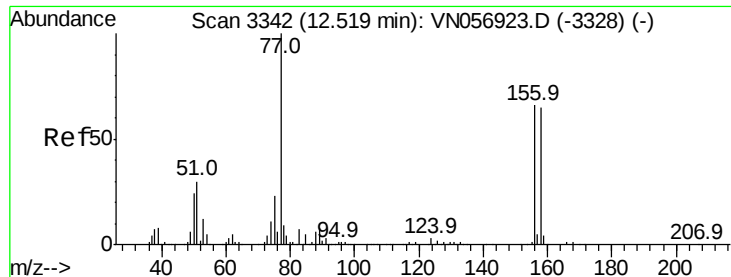
Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion:	75	Resp:	10112
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





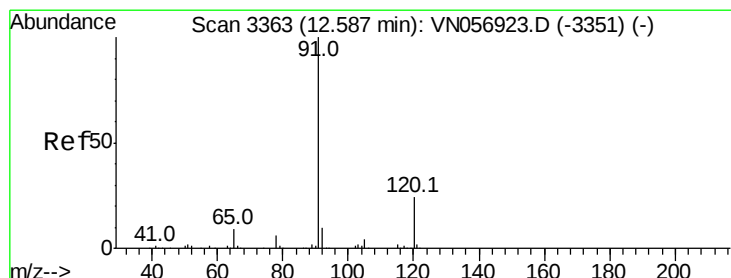
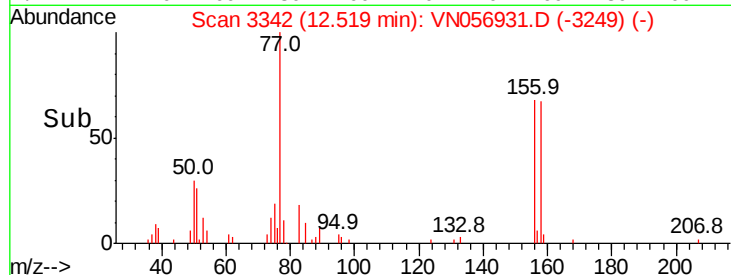
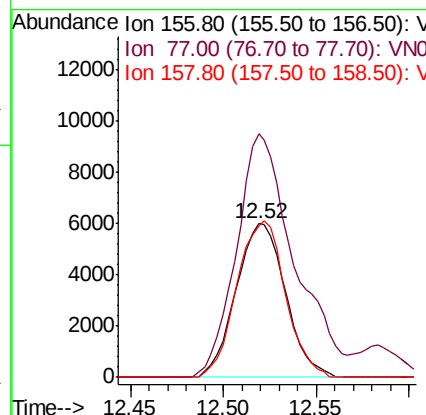
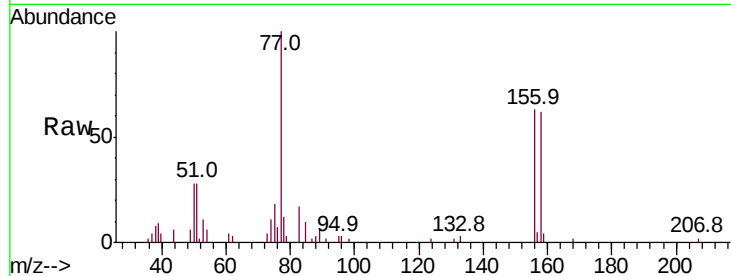
#77
Bromobenzene
Concen: 2.780 ug/l
RT: 12.52 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	186.1	90.8	272.3
158	99.9	49.5	148.5

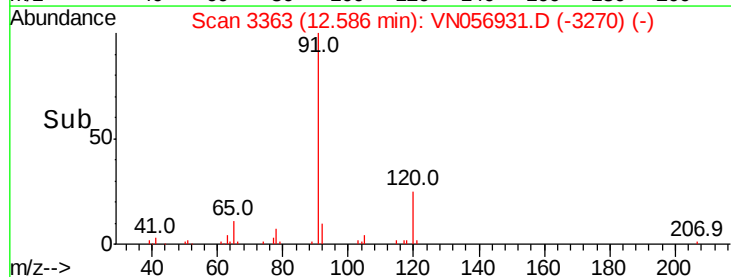
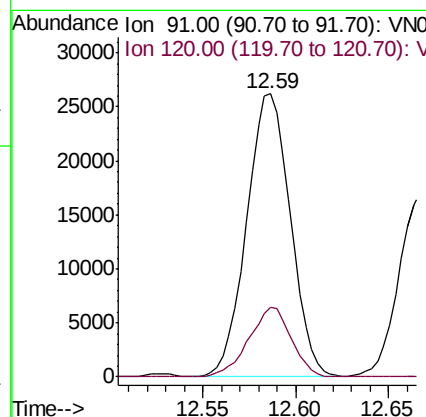
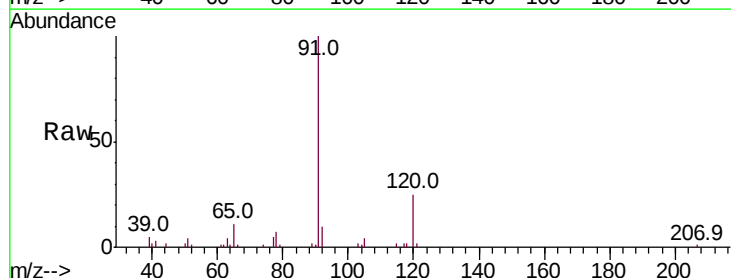
Manual Integrations
APPROVED

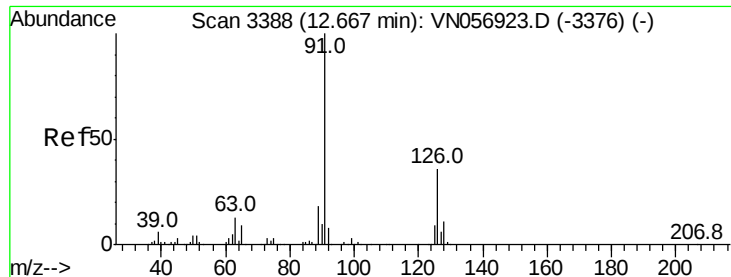
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#78
n-propylbenzene
Concen: 2.593 ug/l
RT: 12.59 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.8	11.9	35.7





#79

2-Chlorotoluene

Concen: 2.832 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 29189

Ion Ratio Lower Upper

91 100

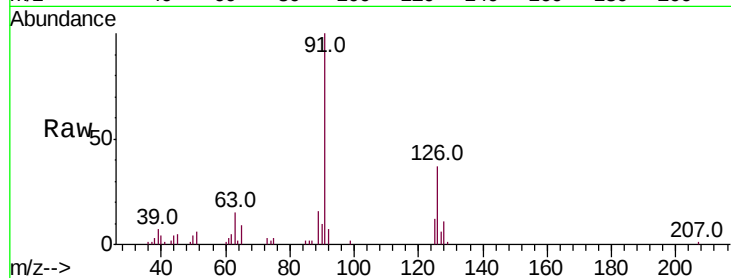
126 36.7 17.9 53.7

Manual Integrations

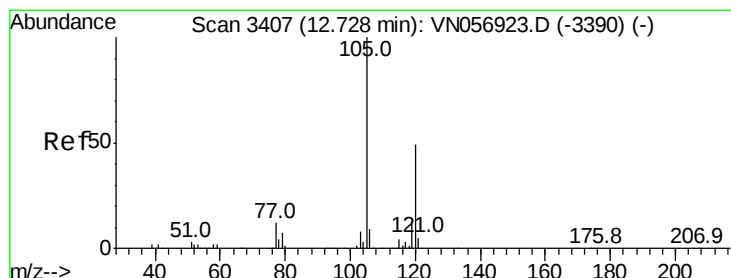
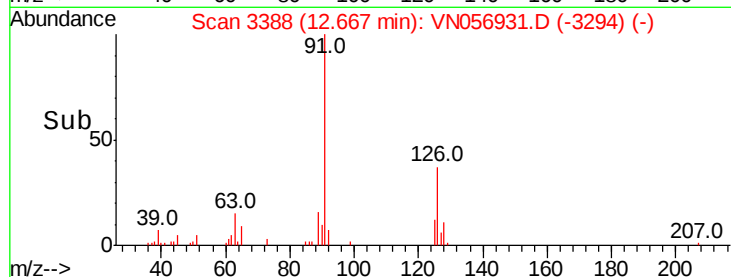
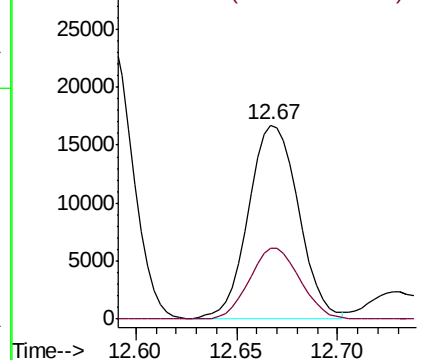
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Abundance Ion 91.00 (90.70 to 91.70): VN056931.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.776 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056931.D

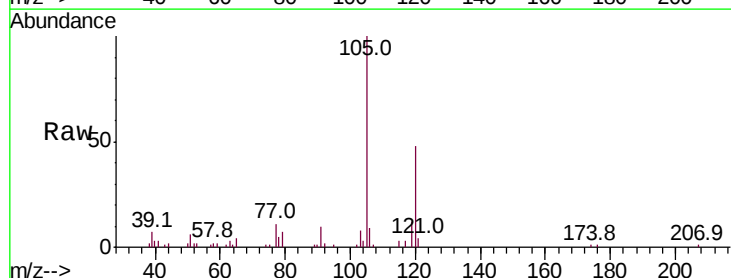
Acq: 25 Jul 2019 20:04

Tgt Ion:105 Resp: 35937

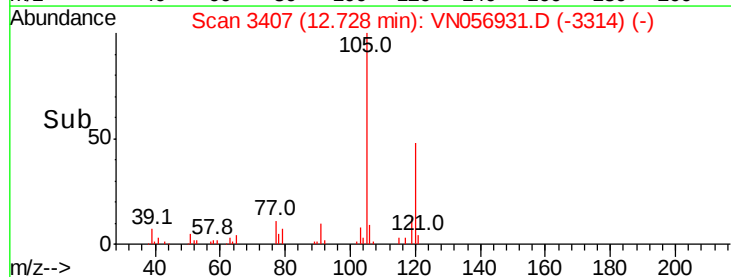
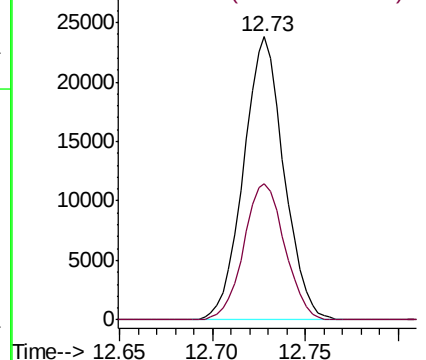
Ion Ratio Lower Upper

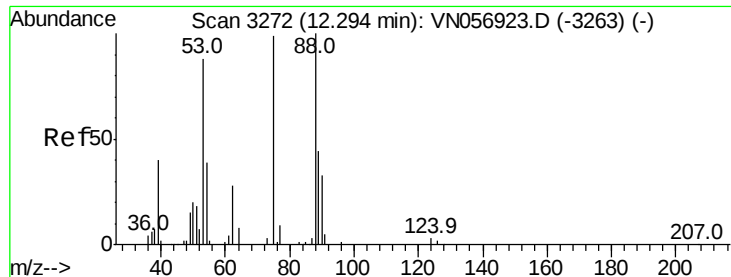
105 100

120 48.8 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VN056931.D (-3390) (-)





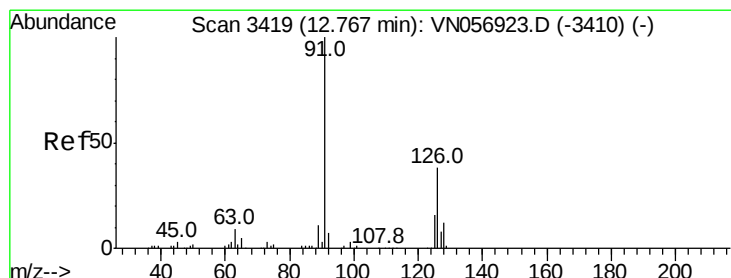
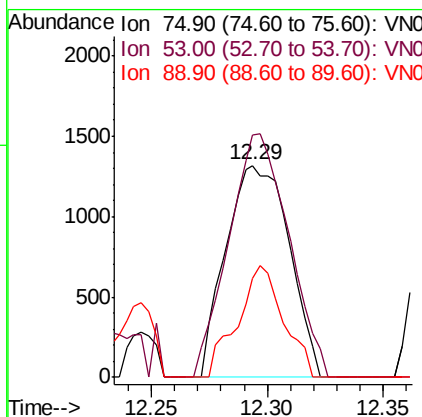
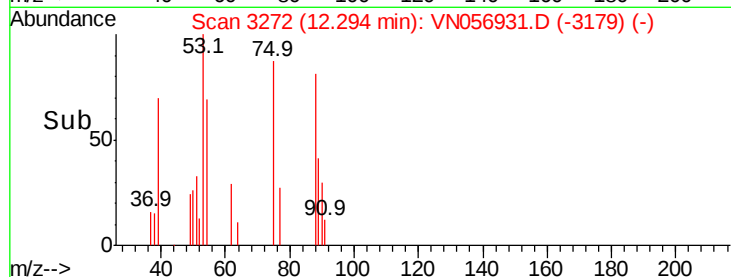
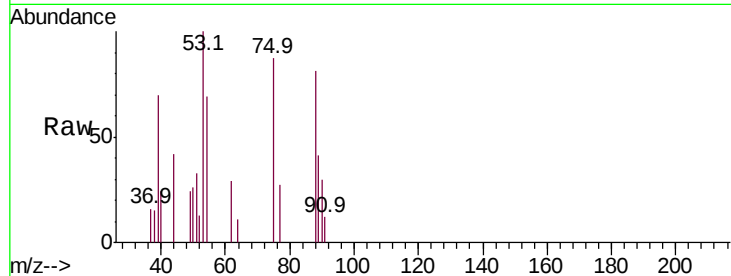
#81
trans-1,4-Dichloro-2-butene
Concen: 2.292 ug/l m
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	72.3	108.5#
89	0.0	36.2	54.2#

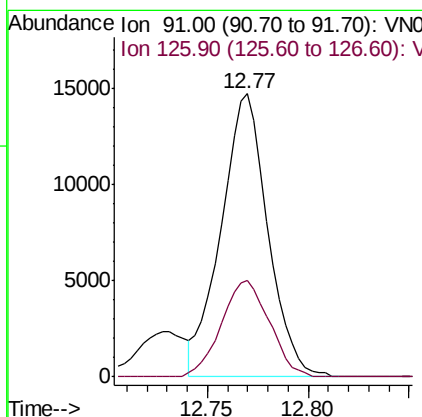
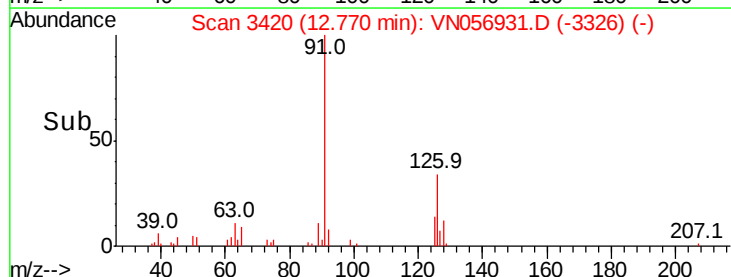
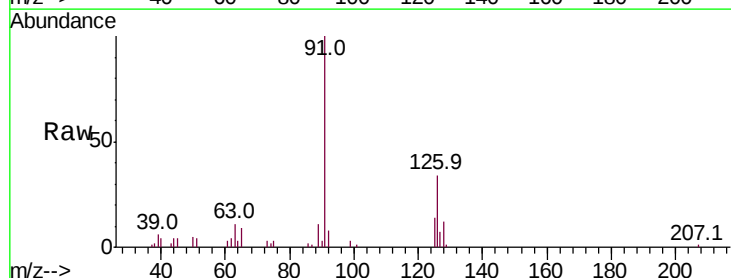
Manual Integrations
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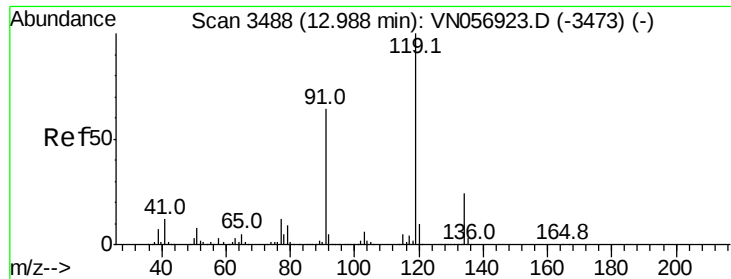
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#82
4-Chlorotoluene
Concen: 2.519 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.3	51.7





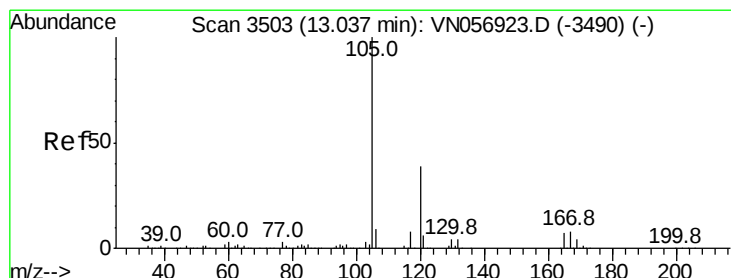
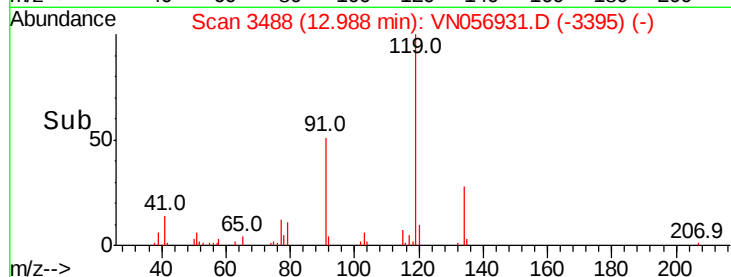
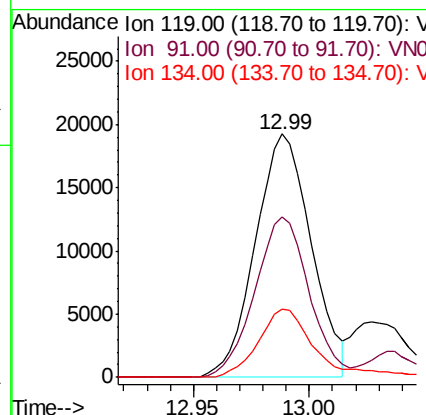
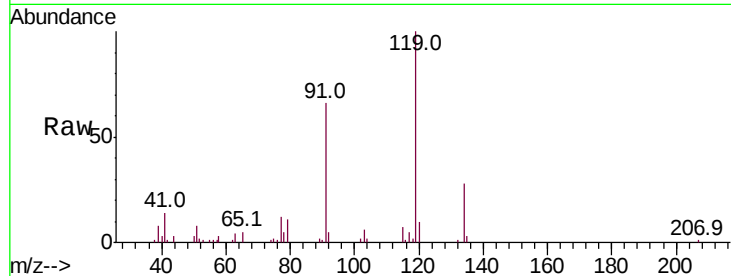
#83
 tert-Butylbenzene
 Concen: 2.831 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. 0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.6	95.0
134	28.5	13.2	39.5

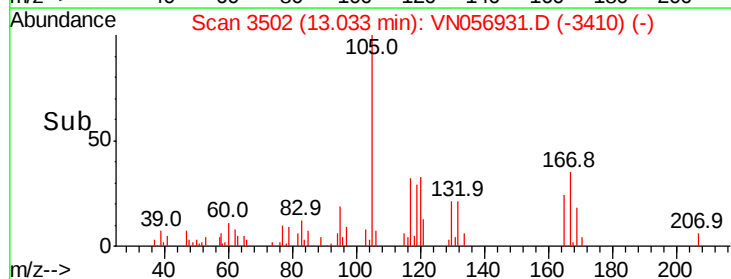
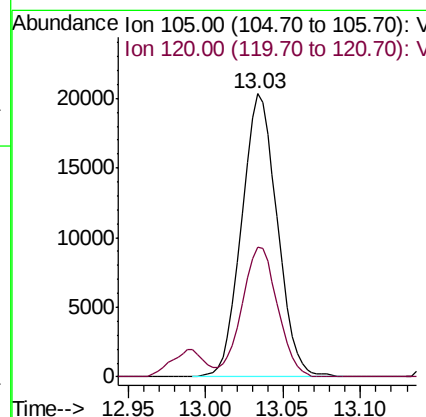
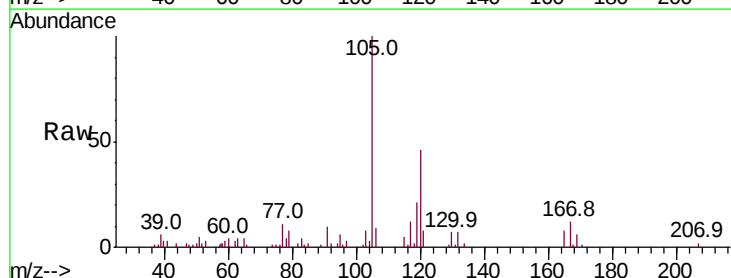
Manual Integrations
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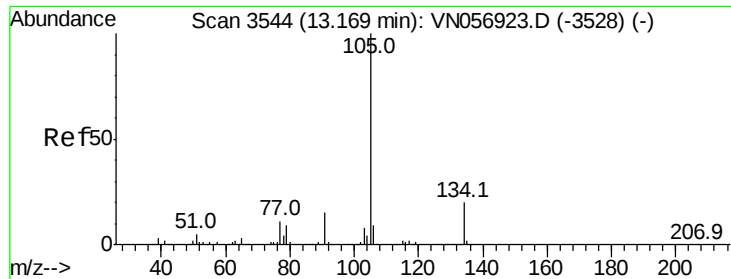
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.651 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.1	69.2





#85

sec-Butylbenzene

Concen: 2.729 ug/l

RT: 13.17 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:105 Resp: 39370

Ion Ratio Lower Upper

105 100

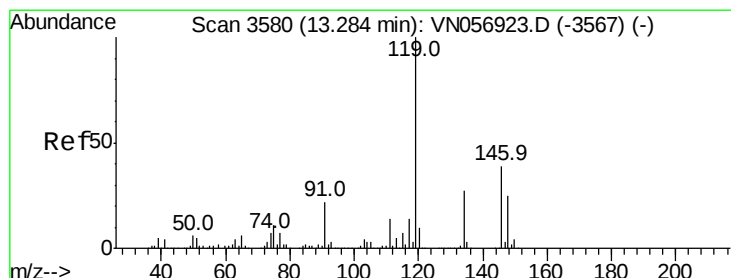
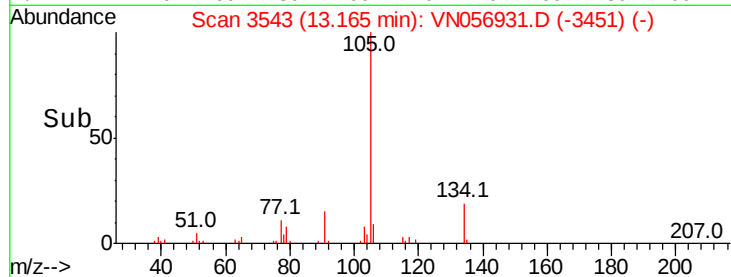
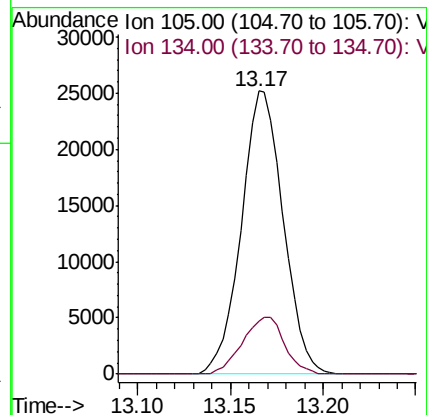
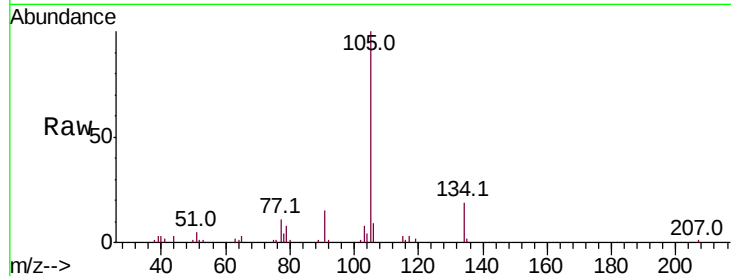
134 20.0 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 2.677 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

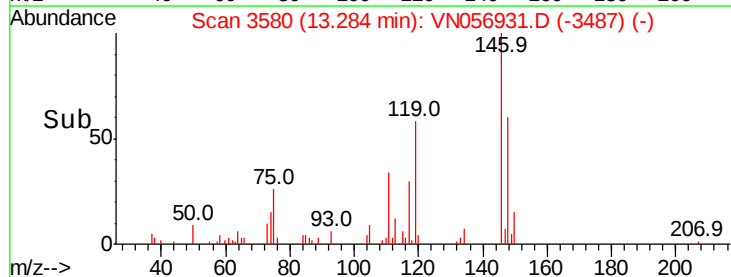
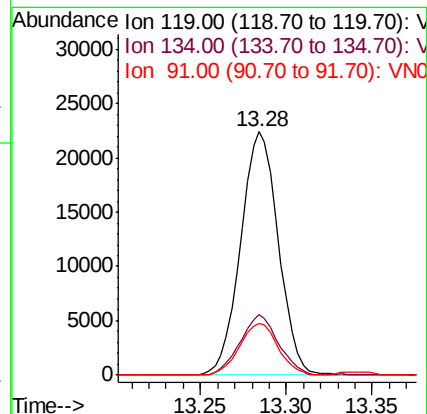
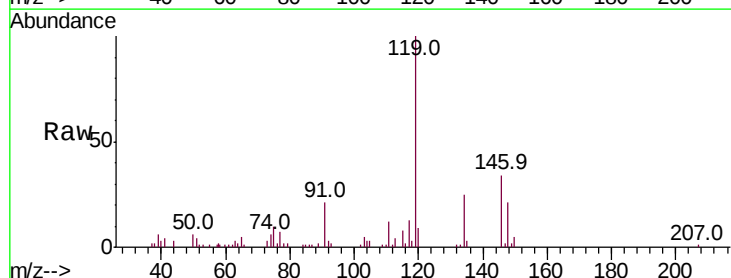
Tgt Ion:119 Resp: 34118

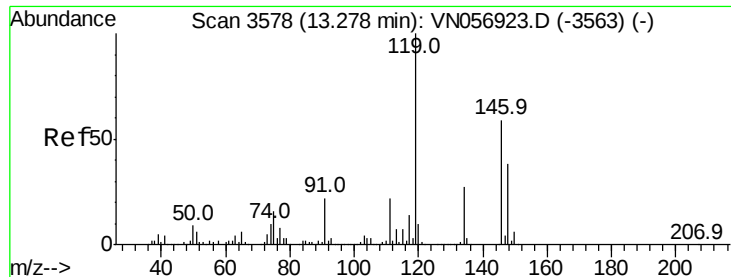
Ion Ratio Lower Upper

119 100

134 25.0 13.5 40.5

91 21.6 11.0 33.0





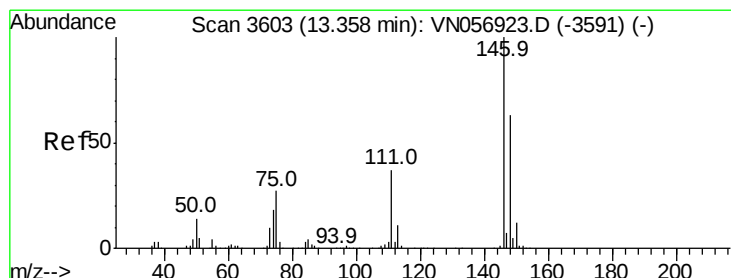
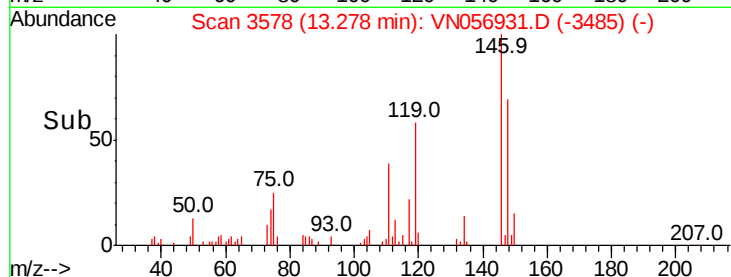
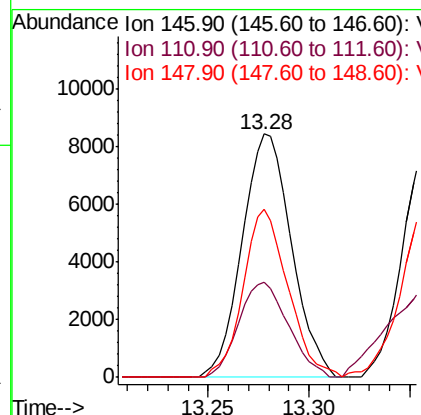
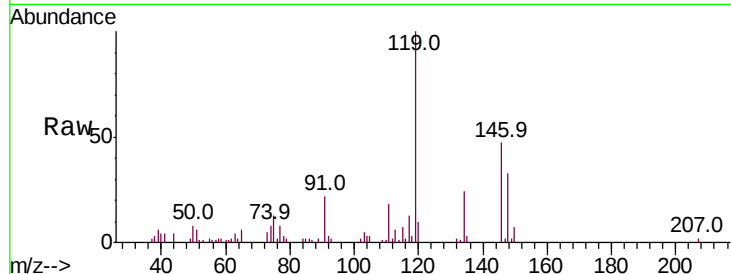
#87
 1,3-Dichlorobenzene
 Concen: 2.410 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.6	56.0
148	62.8	31.6	94.7

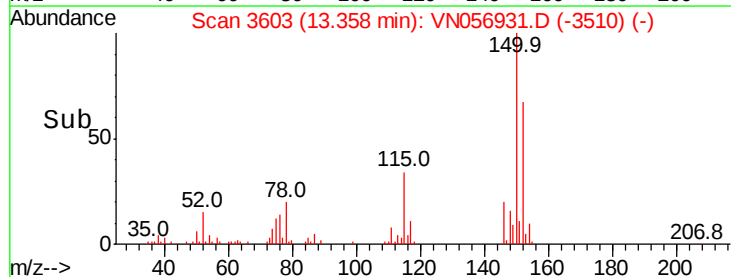
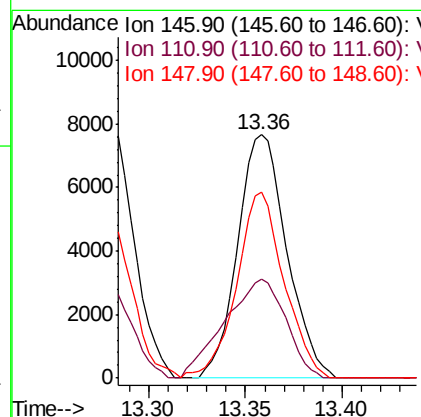
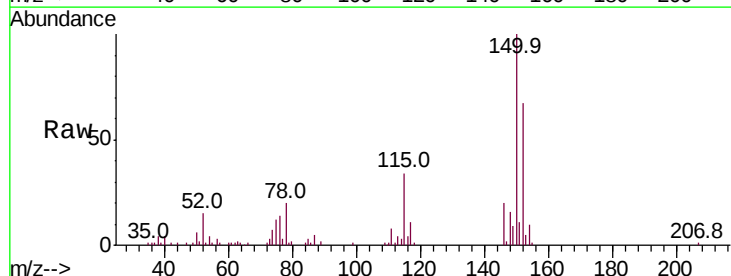
Manual Integrations
 APPROVED

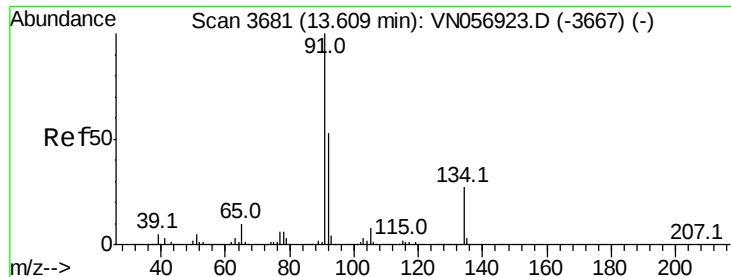
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 7/26/2019 3:37:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 2.354 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.7	18.9	56.5
148	73.6	32.1	96.3





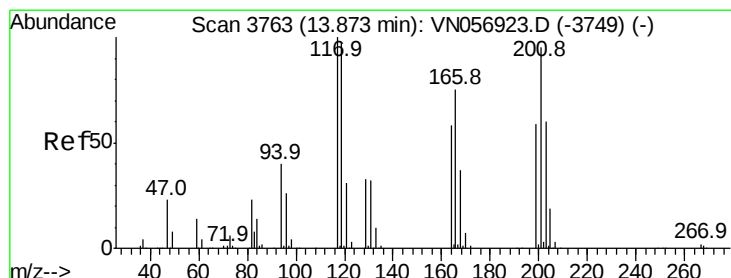
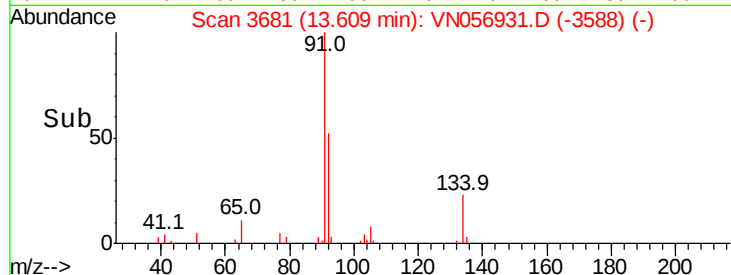
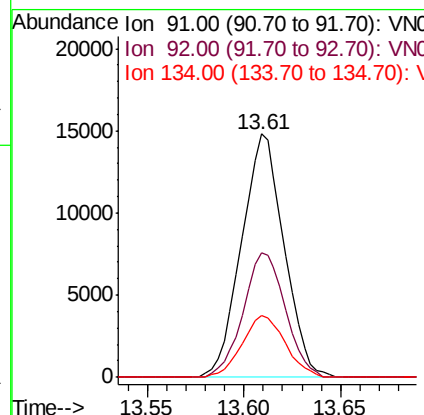
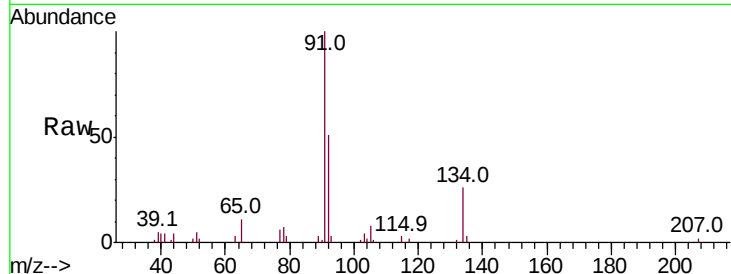
#89
n-Butylbenzene
Concen: 2.299 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.5	79.5
134	25.7	13.5	40.5

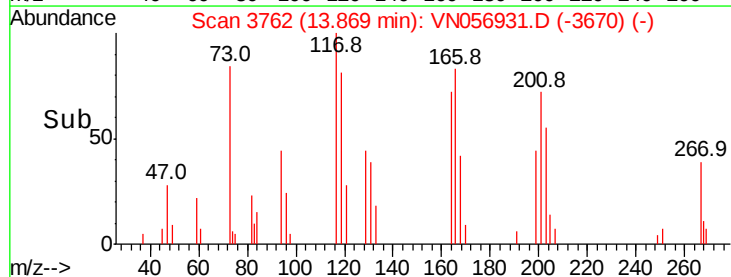
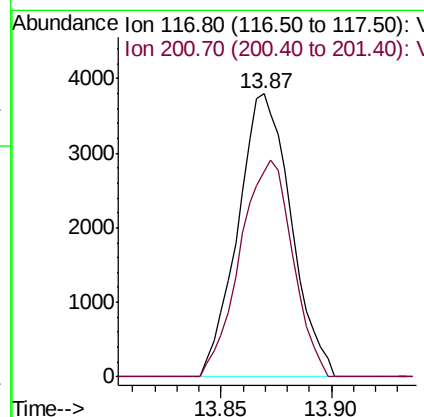
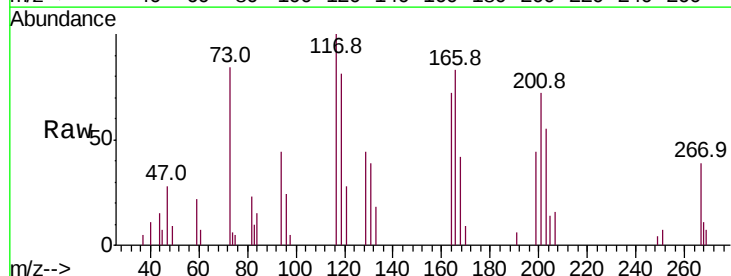
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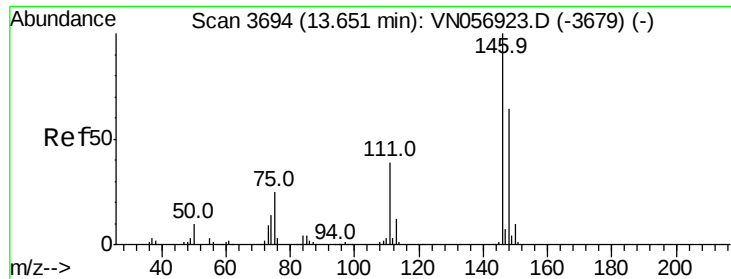
MMDadoda
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#90
Hexachloroethane
Concen: 2.811 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN056931.D
Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.7	47.3	142.0





#91

1,2-Dichlorobenzene

Concen: 2.524 ug/l

RT: 13.65 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

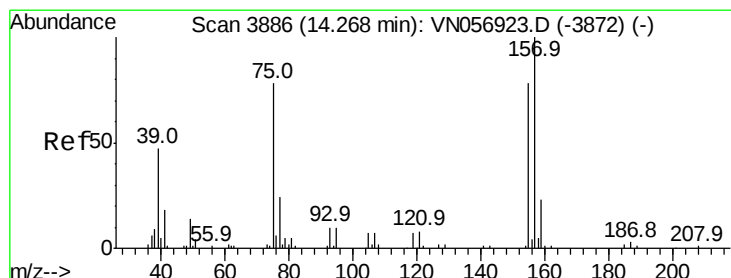
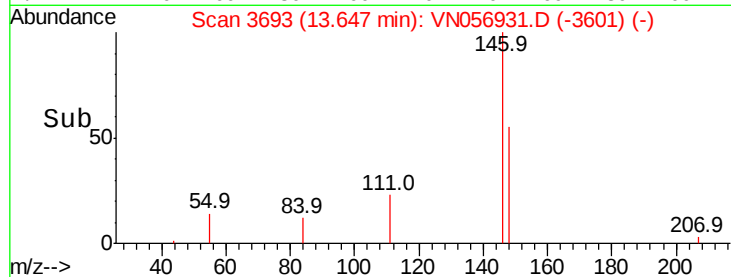
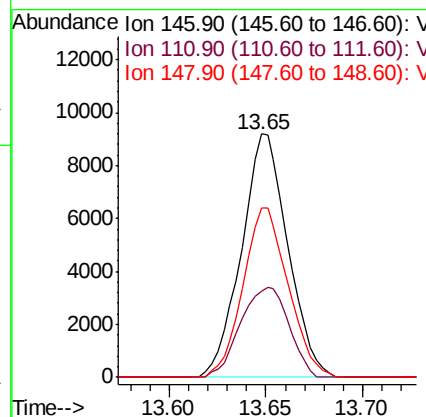
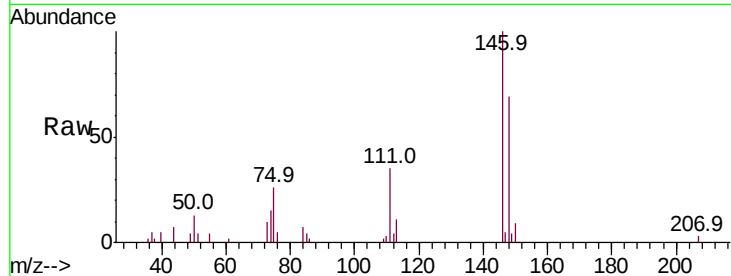
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	146	Resp:	15325
Ion Ratio	Lower	Upper	
146	100		
111	38.6	19.6	58.8
148	67.7	32.2	96.6

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#92

1,2-Dibromo-3-Chloropropane

Concen: 2.587 ug/l

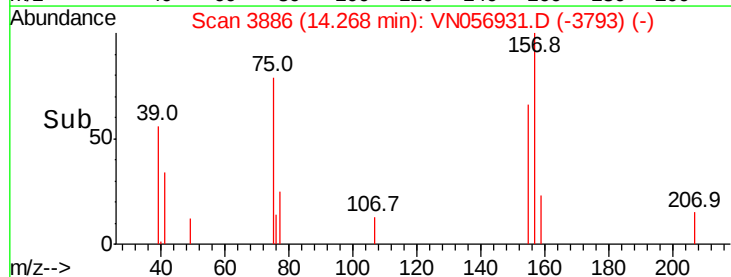
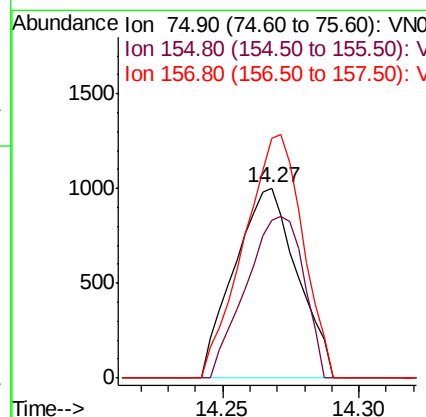
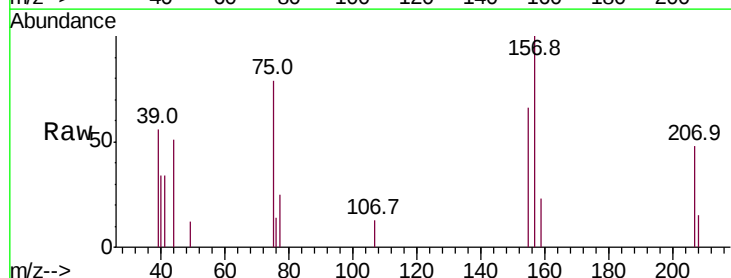
RT: 14.27 min Scan# 3886

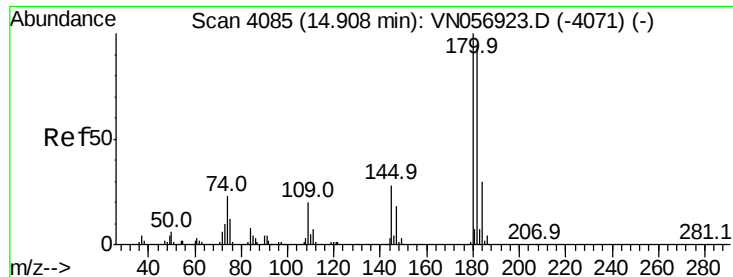
Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion:	75	Resp:	1595
Ion Ratio	Lower	Upper	
75	100		
155	78.6	47.3	141.9
157	120.4	63.0	189.0





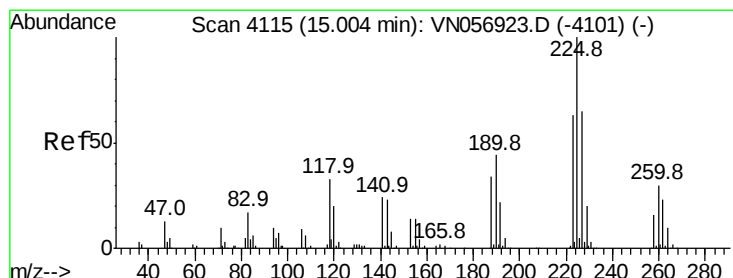
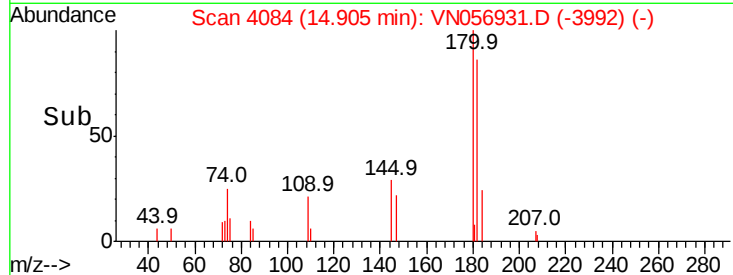
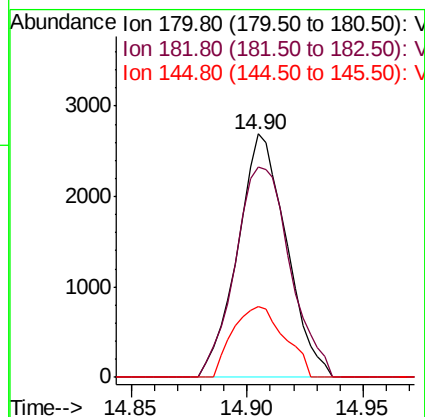
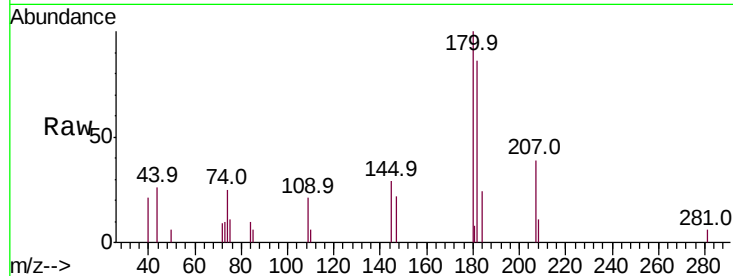
#93
 1,2,4-Trichlorobenzene
 Concen: 1.573 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.9	143.8
145	30.7	14.1	42.4

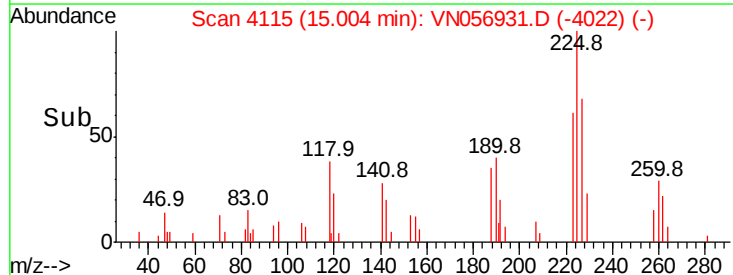
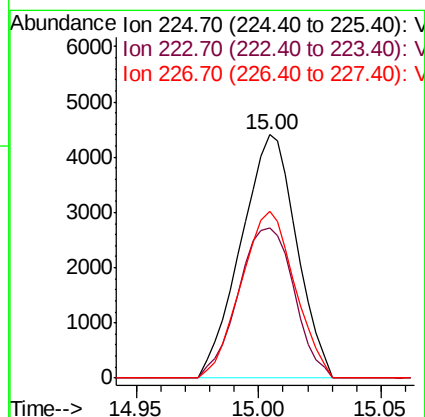
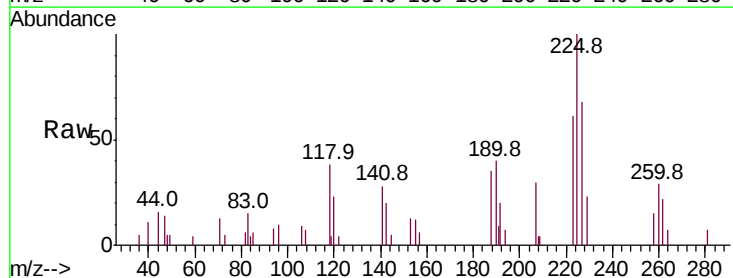
Manual Integrations
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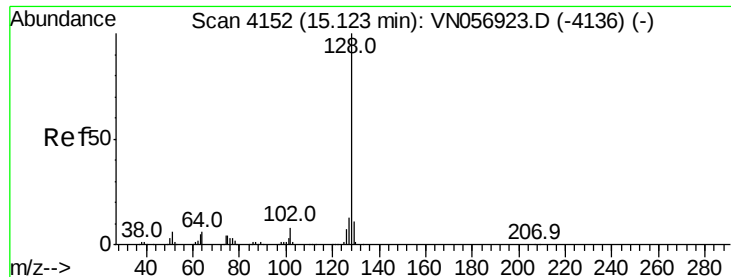
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 2.831 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN056931.D
 Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.3	93.9
227	66.5	31.9	95.7





#95

Naphthalene

Concen: 1.726 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. -0.00 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Instrument :

MSVOA_N

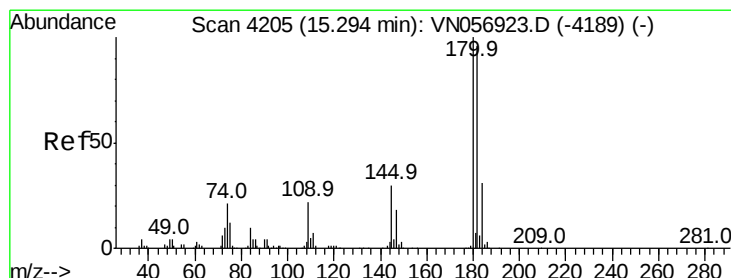
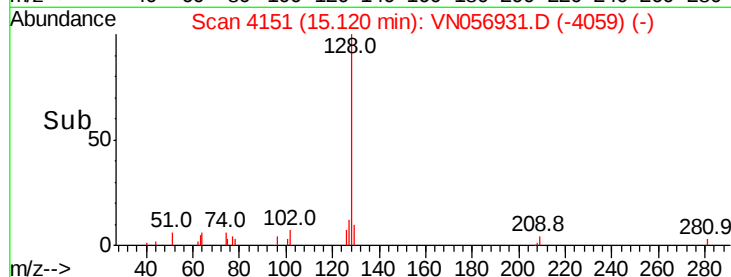
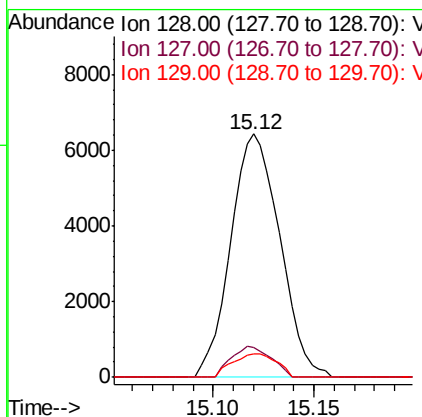
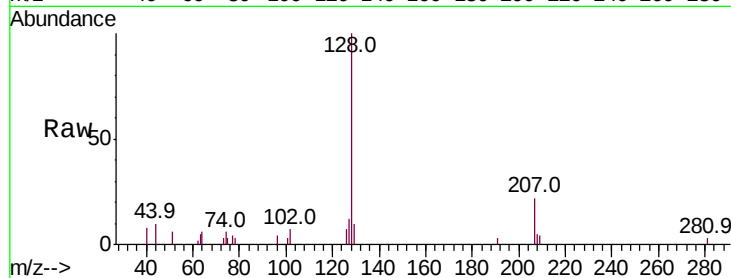
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.2	15.2
129	8.6	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 1.681 ug/l

RT: 15.29 min Scan# 4203

Delta R.T. -0.01 min

Lab File: VN056931.D

Acq: 25 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.4	145.3
145	29.8	15.1	45.3

