

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052313.D
 Acq On : 14 Nov 2018 15:22
 Operator : MD\SY
 Sample : J5164-07 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:51 PM

Quant Time: Nov 15 04:22:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	261847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	454481	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	381086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122830	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	187204	50.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.24%	
35) Dibromofluoromethane	7.59	113	141955	48.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.86%	
50) Toluene-d8	10.09	98	535923	46.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.94%	
62) 4-Bromofluorobenzene	12.40	95	155669	41.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.06%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.86	85	813	0.293	ug/l	84
3) Chloromethane	2.06	50	1447	0.375	ug/l	99
4) Vinyl Chloride	2.19	62	1245	0.374	ug/l	98
5) Bromomethane	2.58	94	1008	0.485	ug/l	97
7) Trichlorofluoromethane	3.02	101	1606	0.348	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	995m	0.342	ug/l	
14) Allyl chloride	4.34	41	2449m	0.442	ug/l	
16) Acetone	3.83	43	2127	2.089	ug/l	98
17) Carbon Disulfide	4.06	76	4452	0.576	ug/l	99
18) Methyl Acetate	4.33	43	1924m	1.100	ug/l	
19) Methyl tert-butyl Ether	5.04	73	1985m	0.256	ug/l	
21) trans-1,2-Dichloroethene	5.05	96	927	0.319	ug/l #	59
22) Diisopropyl ether	5.96	45	2864m	0.254	ug/l	
23) Vinyl Acetate	5.90	43	7544	0.985	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1445m	0.239	ug/l	
25) 2-Butanone	6.84	43	2432m	1.697	ug/l	
27) cis-1,2-Dichloroethene	6.82	96	917m	0.271	ug/l	
28) Bromochloromethane	7.20	49	1124m	0.361	ug/l	
29) Tetrahydrofuran	7.22	42	1001	1.063	ug/l #	93
30) Chloroform	7.38	83	4125	0.715	ug/l	85
31) Cyclohexane	7.66	56	8118	0.392	ug/l #	10
32) 1,1,1-Trichloroethane	7.57	97	1136	0.231	ug/l #	43
36) 1,1-Dichloropropene	7.79	75	1854	0.407	ug/l #	63
38) Carbon Tetrachloride	7.79	117	1186m	0.283	ug/l	
39) Methylcyclohexane	9.09	83	1481	0.285	ug/l #	73
40) Benzene	8.05	78	3239	0.249	ug/l #	82
41) Methacrylonitrile	7.17	41	709	4.053	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	1355	0.292	ug/l #	78
43) Isopropyl Acetate	8.20	43	4267	0.669	ug/l #	67
44) Trichloroethene	8.84	130	1001	0.312	ug/l	98
45) 1,2-Dichloropropane	9.12	63	1041	0.282	ug/l #	87
46) Dibromomethane	9.21	93	686	0.321	ug/l #	47
47) Bromodichloromethane	9.40	83	1578	0.360	ug/l #	73
48) Methyl methacrylate	9.20	41	1472	0.455	ug/l #	50

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052313.D
 Acq On : 14 Nov 2018 15:22
 Operator : MD\SY
 Sample : J5164-07 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:51 PM

Quant Time: Nov 15 04:22:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

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

51) 4-Methyl-2-Pentanone	9.99	43	3858	1.201	ug/l	100
52) Toluene	10.16	92	2306	0.296	ug/l	81
54) cis-1,3-Dichloropropene	9.84	75	1351	0.268	ug/l #	85
55) 1,1,2-Trichloroethane	10.55	97	833m	0.295	ug/l	
56) Ethyl methacrylate	10.43	69	836	0.225	ug/l #	85
57) 1,3-Dichloropropane	10.71	76	1192	0.238	ug/l #	87
58) 2-Chloroethyl Vinyl ether	9.69	63	2026	0.959	ug/l #	78
59) 2-Hexanone	10.75	43	3211	1.454	ug/l	96
61) 1,2-Dibromoethane	11.00	107	725	0.258	ug/l	99
64) Tetrachloroethene	10.63	164	952	0.351	ug/l	85
65) Chlorobenzene	11.43	112	2677	0.332	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	567	0.206	ug/l #	56
67) Ethyl Benzene	11.51	91	3530	0.252	ug/l	93
68) m/p-Xylenes	11.62	106	2995	0.586	ug/l	98
69) o-Xylene	11.95	106	1254	0.256	ug/l	73
70) Styrene	11.97	104	2091	0.267	ug/l	95
73) Isopropylbenzene	12.25	105	3199	0.324	ug/l	98
74) N-amyl acetate	12.08	43	1314	0.374	ug/l #	71
75) 1,1,2,2-Tetrachloroethane	12.51	83	1021	0.428	ug/l #	88
76) 1,2,3-Trichloropropane	12.56	75	1328m	0.637	ug/l	
77) Bromobenzene	12.53	156	1093	0.476	ug/l	92
78) n-propylbenzene	12.59	91	3997	0.346	ug/l	97
79) 2-Chlorotoluene	12.68	91	2737	0.406	ug/l	89
80) 1,3,5-Trimethylbenzene	12.73	105	3078	0.392	ug/l	90
82) 4-Chlorotoluene	12.77	91	3124	0.452	ug/l	95
83) tert-Butylbenzene	12.99	119	2890	0.417	ug/l	91
84) 1,2,4-Trimethylbenzene	13.04	105	2580	0.327	ug/l	88
85) sec-Butylbenzene	13.17	105	3530	0.374	ug/l	99
86) p-Isopropyltoluene	13.29	119	2985	0.373	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	2028	0.497	ug/l	92
88) 1,4-Dichlorobenzene	13.36	146	1983m	0.489	ug/l	
89) n-Butylbenzene	13.62	91	2878	0.419	ug/l	93
90) Hexachloroethane	13.87	117	473	0.334	ug/l #	55
91) 1,2-Dichlorobenzene	13.66	146	2017	0.510	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.27	75	77	0.219	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.90	180	1731	3.155	ug/l	96
94) Hexachlorobutadiene	15.01	225	884	0.977	ug/l #	64
95) Naphthalene	15.13	128	3636	3.397	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.32	180	1538	1.024	ug/l	94

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

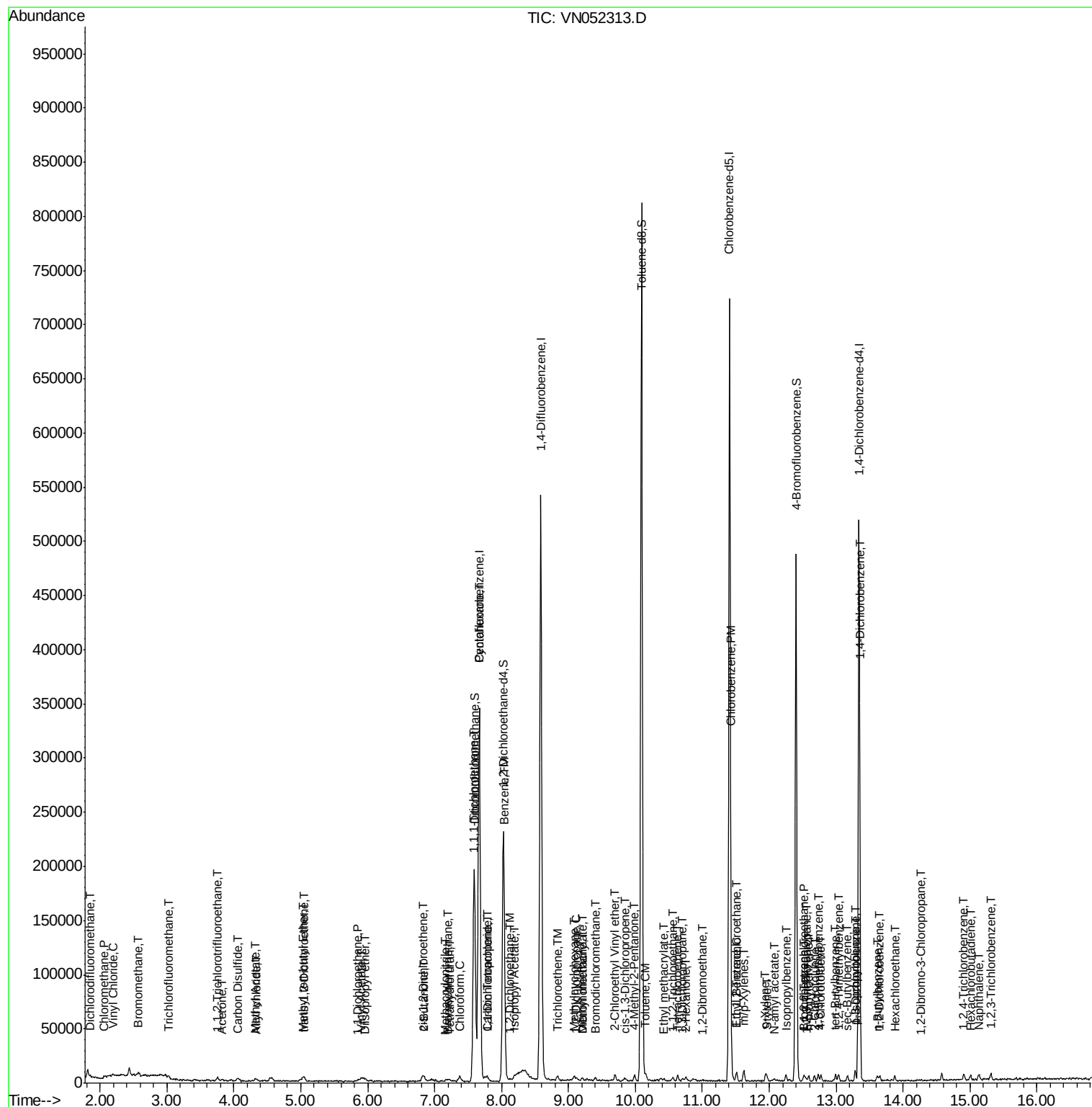
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052313.D
 Acq On : 14 Nov 2018 15:22
 Operator : MD\SY
 Sample : J5164-07 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

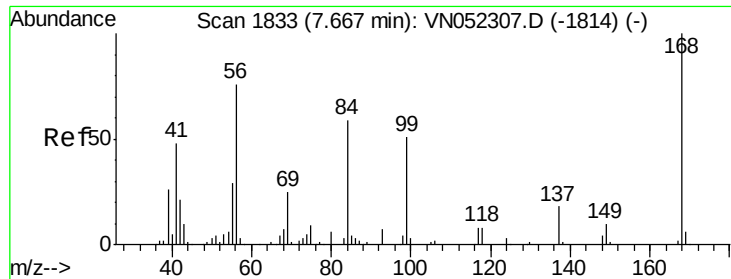
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:51 PM

Quant Time: Nov 15 04:22:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:168 Resp: 261847

Ion Ratio Lower Upper

168 100

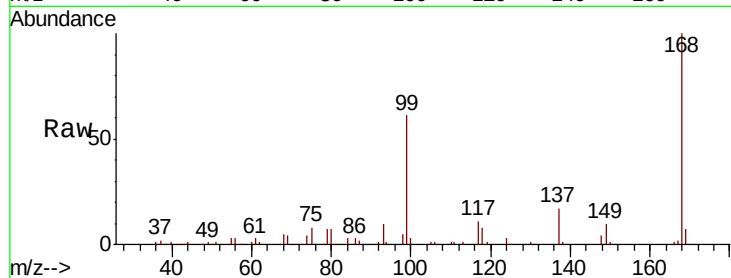
99 60.7 47.9 71.9

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

120000

100000

80000

60000

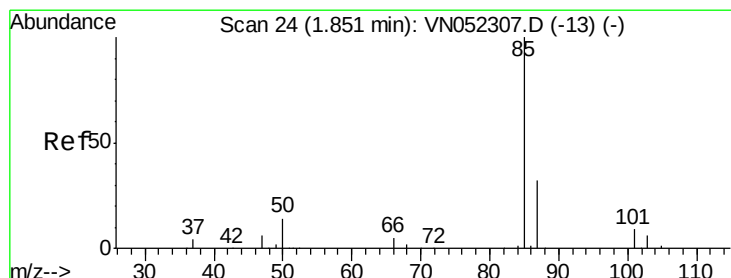
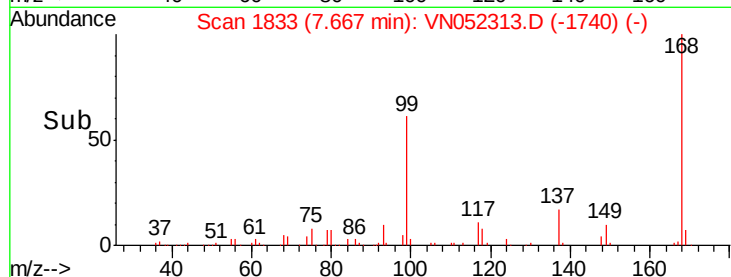
40000

20000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.293 ug/l

RT: 1.86 min Scan# 26

Delta R.T. 0.01 min

Lab File: VN052313.D

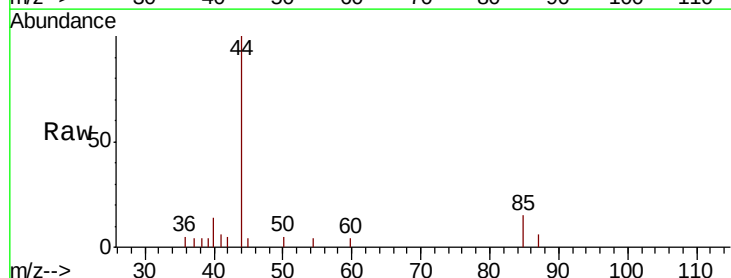
Acq: 14 Nov 2018 15:22

Tgt Ion: 85 Resp: 813

Ion Ratio Lower Upper

85 100

87 40.6 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.86

600

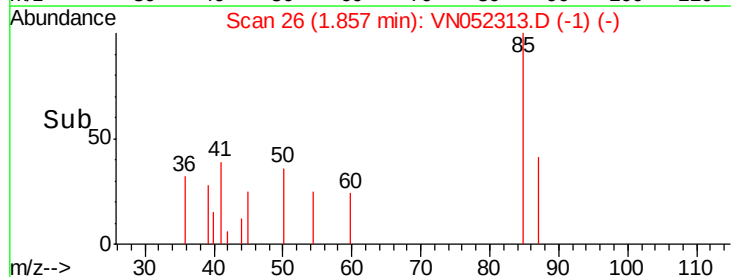
400

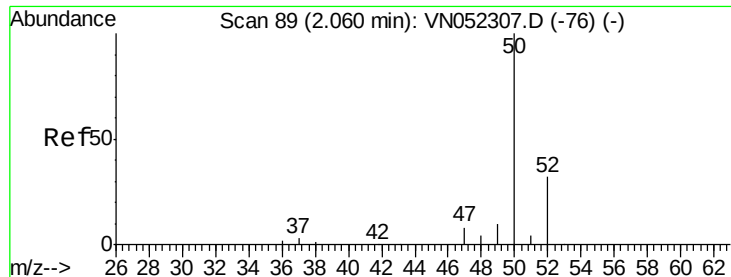
200

0

Time-->

1.82 1.84 1.86 1.88





#3

Chloromethane

Concen: 0.375 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 50 Resp: 1447

Ion Ratio Lower Upper

50 100

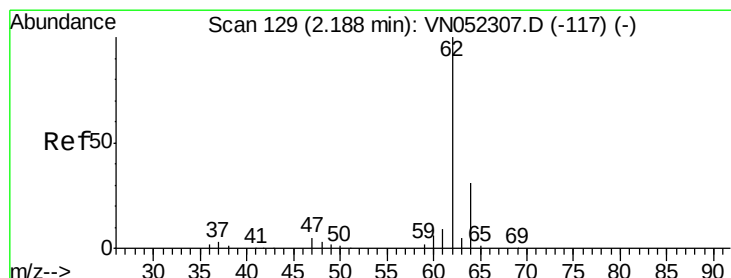
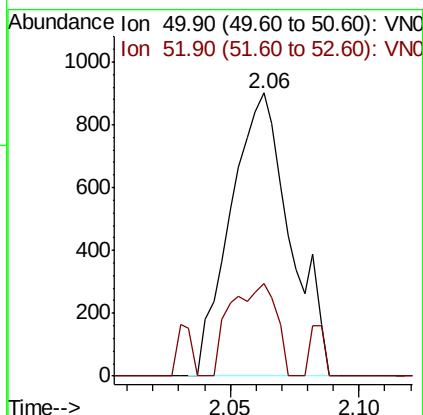
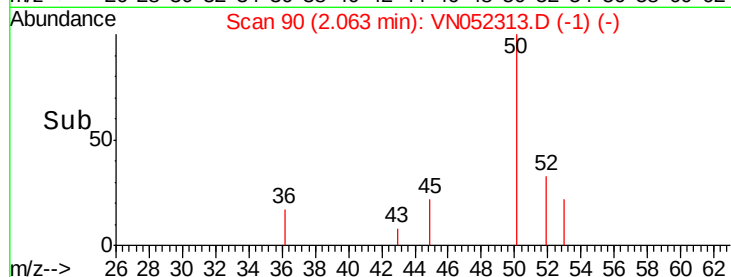
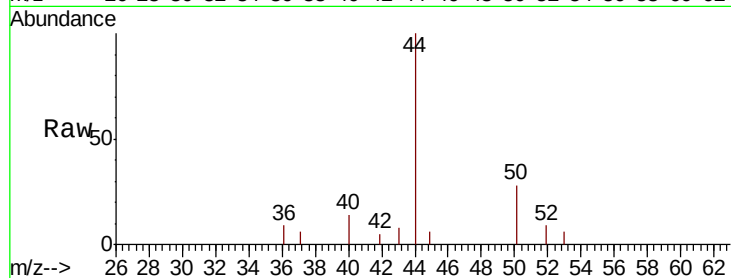
52 32.5 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



#4

Vinyl Chloride

Concen: 0.374 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN052313.D

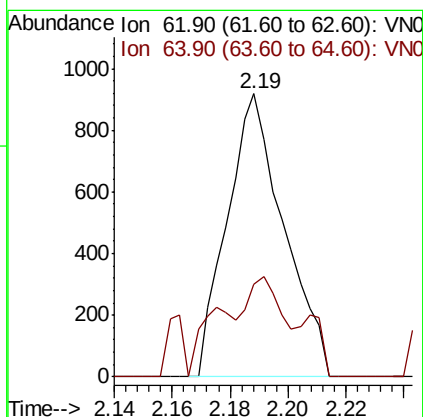
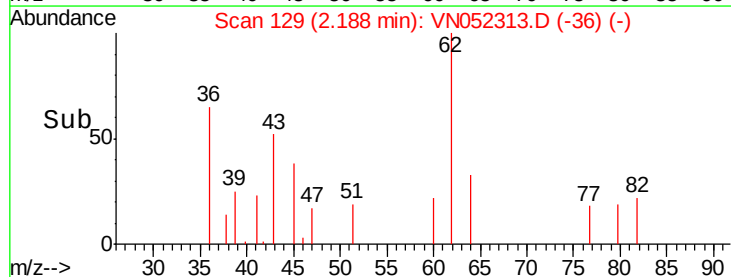
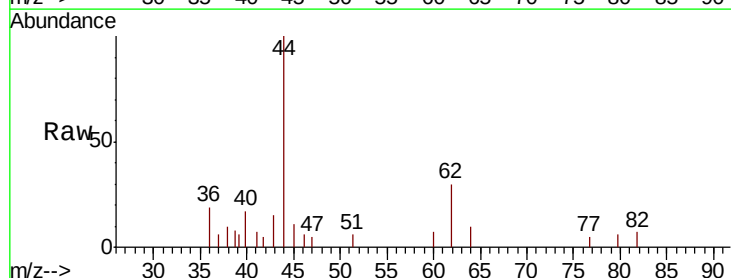
Acq: 14 Nov 2018 15:22

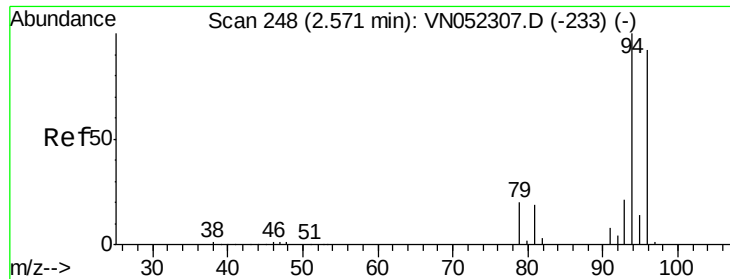
Tgt Ion: 62 Resp: 1245

Ion Ratio Lower Upper

62 100

64 32.7 25.2 37.8





#5

Bromomethane

Concen: 0.485 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 94 Resp: 1008

Ion Ratio Lower Upper

94 100

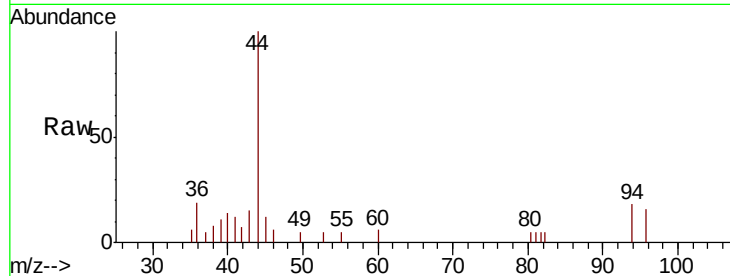
96 89.5 73.6 110.4

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



Abundance Ion 93.90 (93.60 to 94.60): VN052313.D (-155) (-)

Ion 95.90 (95.60 to 96.60): VN052313.D (-155) (-)

2.58

600

400

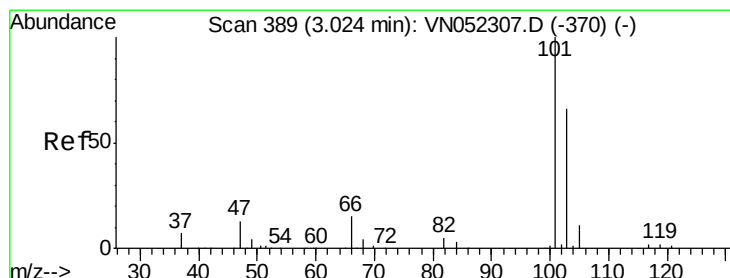
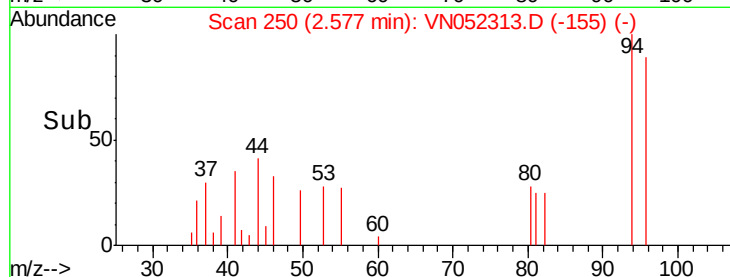
200

0

2.55

2.60

Time-->



#7

Trichlorofluoromethane

Concen: 0.348 ug/l

RT: 3.02 min Scan# 388

Delta R.T. -0.00 min

Lab File: VN052313.D

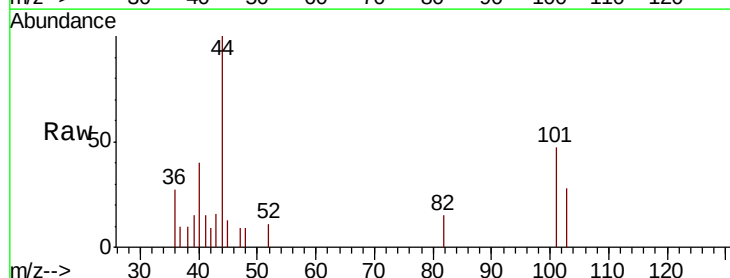
Acq: 14 Nov 2018 15:22

Tgt Ion: 101 Resp: 1606

Ion Ratio Lower Upper

101 100

103 58.4 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): VN052313.D (-296) (-)

Ion 102.80 (102.50 to 103.50): VN052313.D (-296) (-)

3.02

800

600

400

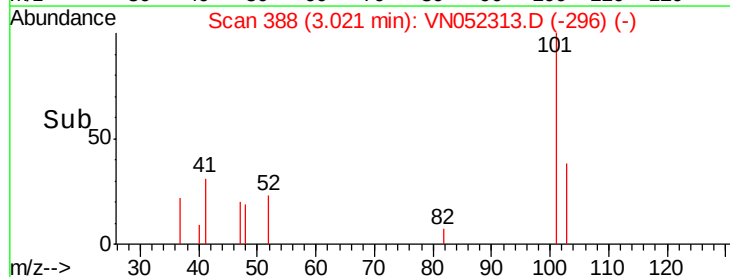
200

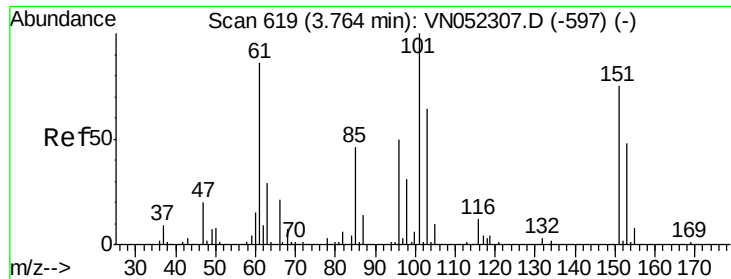
0

3.00

3.05

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.342 ug/l m

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

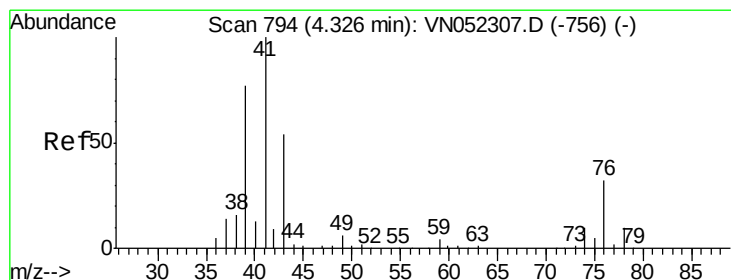
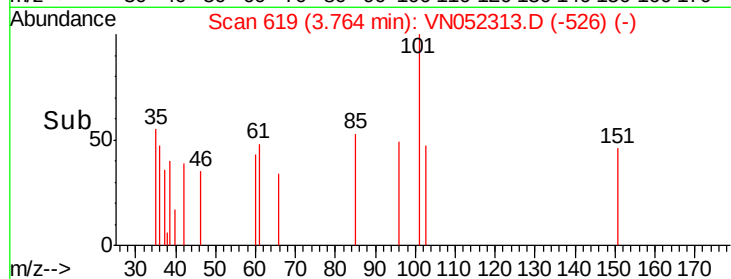
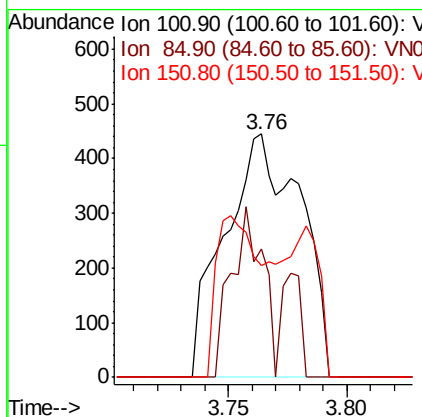
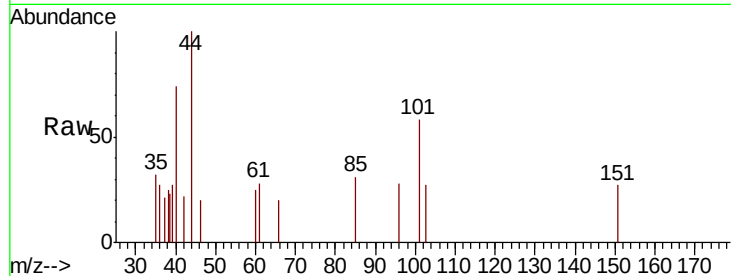
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:	101	Resp:	995
Ion Ratio	Lower	Upper	
101	100		
85	28.9	37.4	56.0#
151	42.2	58.6	88.0#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#14

Allyl chloride

Concen: 0.442 ug/l m

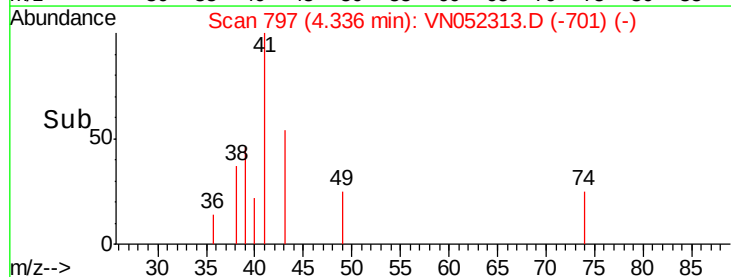
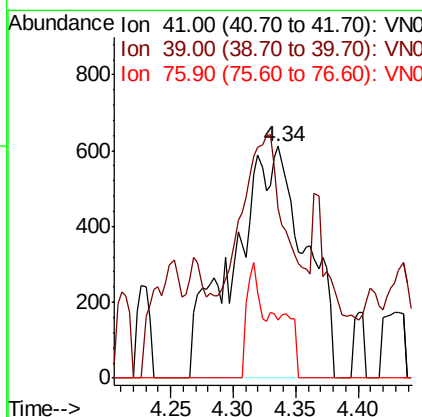
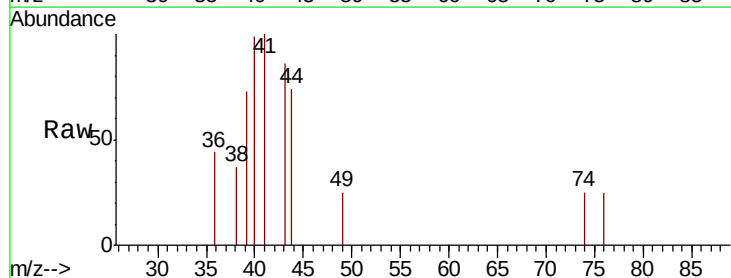
RT: 4.34 min Scan# 797

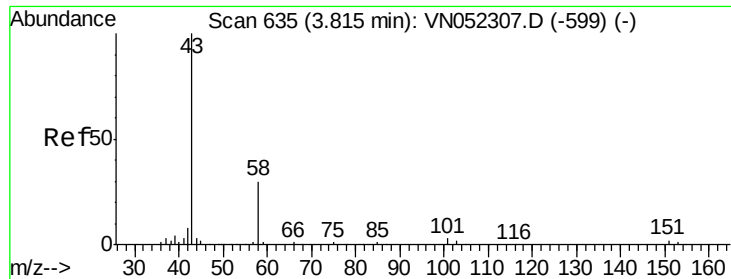
Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	41	Resp:	2449
Ion Ratio	Lower	Upper	
41	100		
39	60.5	59.1	88.7
76	10.2	24.1	36.1#





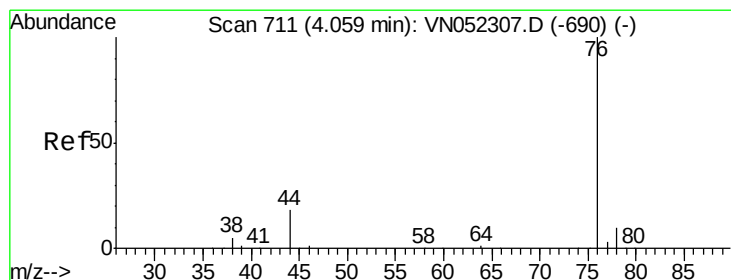
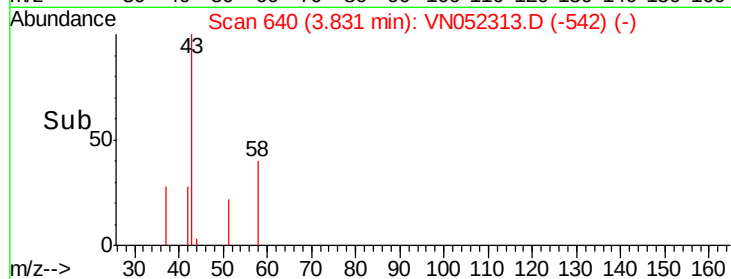
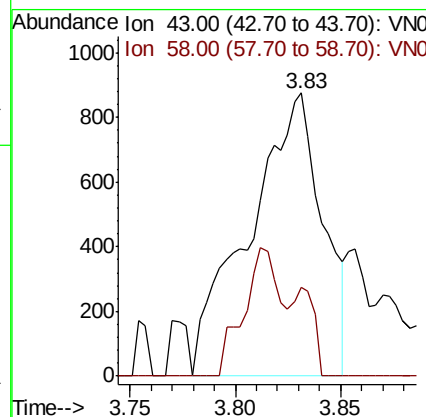
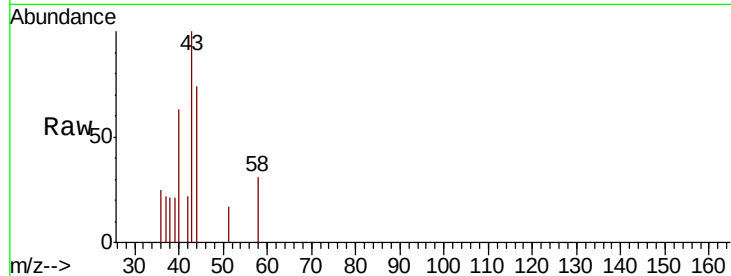
#16
Acetone
Concen: 2.089 ug/l
RT: 3.83 min Scan# 640
Delta R.T. 0.02 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 43 Resp: 2127
Ion Ratio Lower Upper
43 100
58 31.4 24.2 36.4

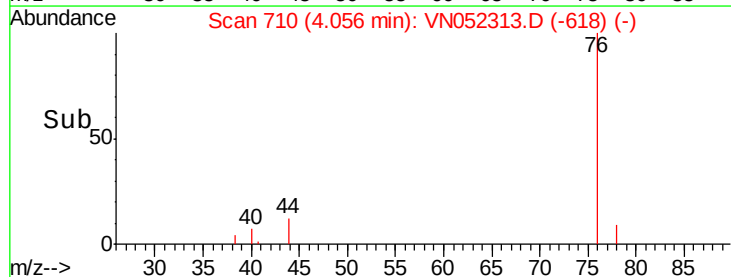
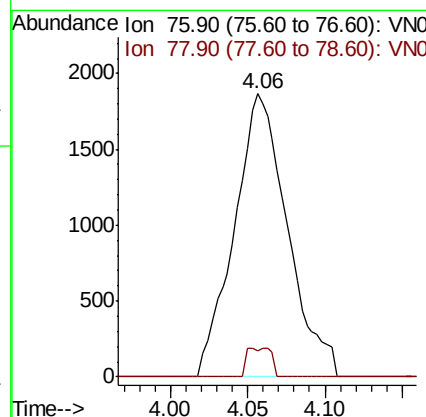
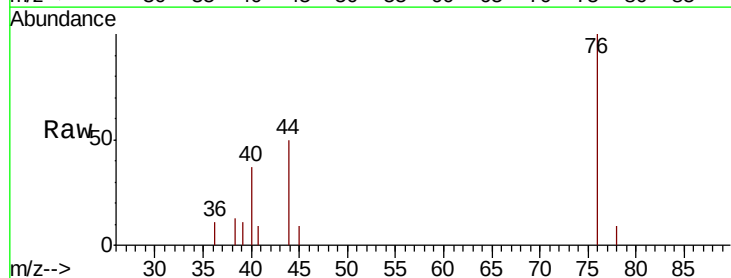
Manual Integrations
APPROVED

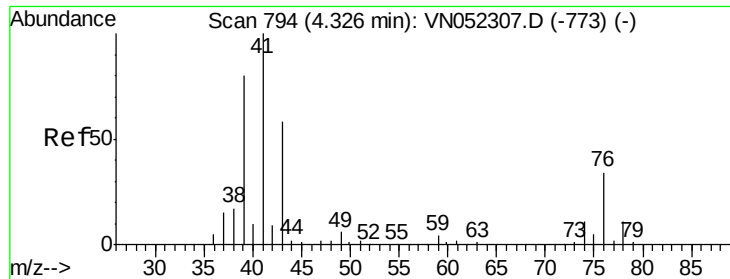
MMDadoda
11/20/2018 2:53:51 PM



#17
Carbon Disulfide
Concen: 0.576 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 76 Resp: 4452
Ion Ratio Lower Upper
76 100
78 9.3 7.7 11.5





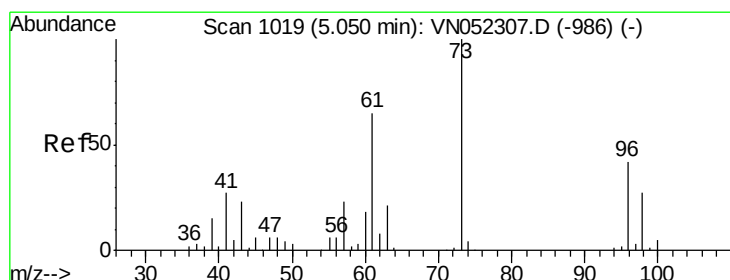
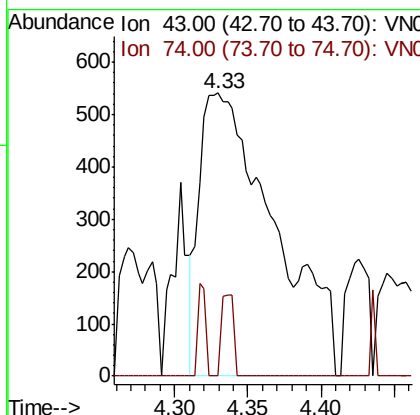
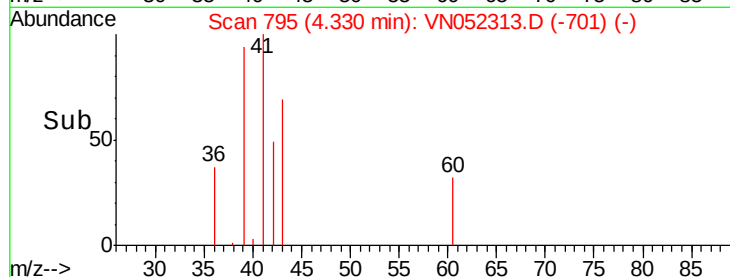
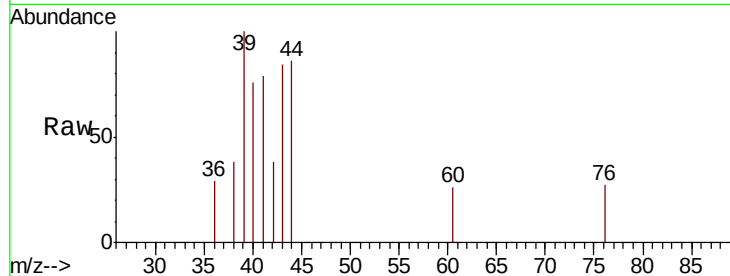
#18
Methyl Acetate
Concen: 1.100 ug/l m
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 43 Resp: 1924
Ion Ratio Lower Upper
43 100
74 4.6 15.9 23.9#

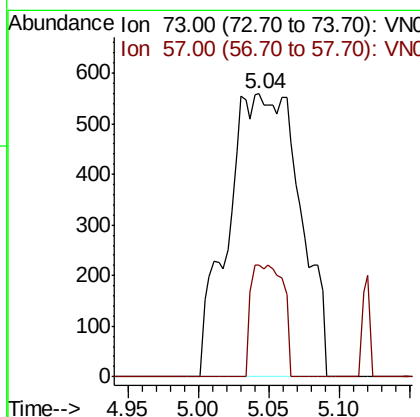
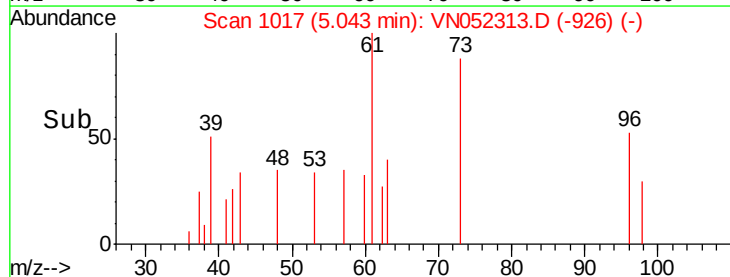
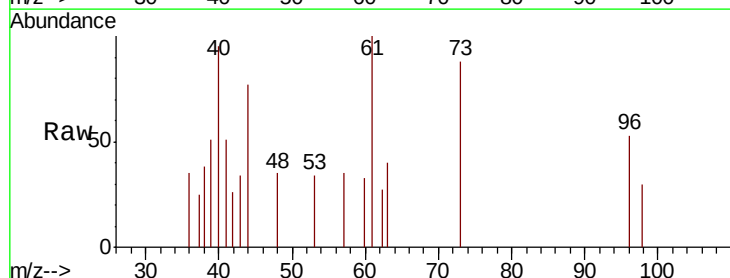
Manual Integrations
APPROVED

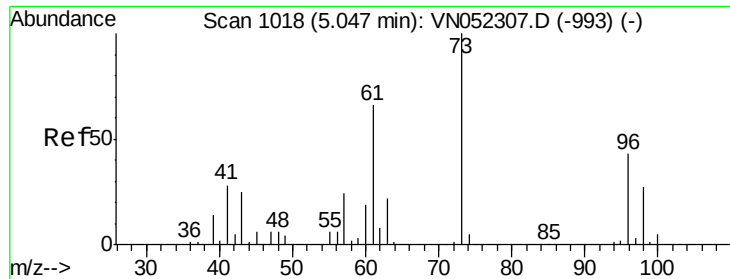
MMDadoda
11/20/2018 2:53:51 PM



#19
Methyl tert-butyl Ether
Concen: 0.256 ug/l m
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 73 Resp: 1985
Ion Ratio Lower Upper
73 100
57 39.5 18.7 28.1#





#21

trans-1,2-Dichloroethene

Concen: 0.319 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

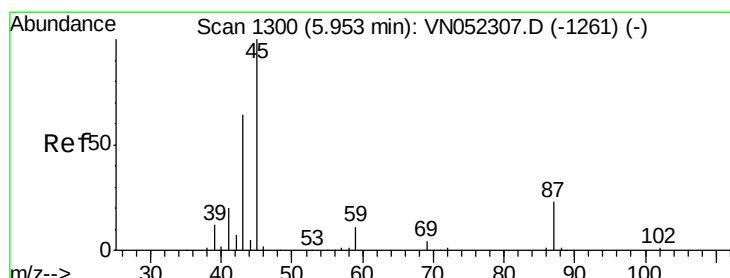
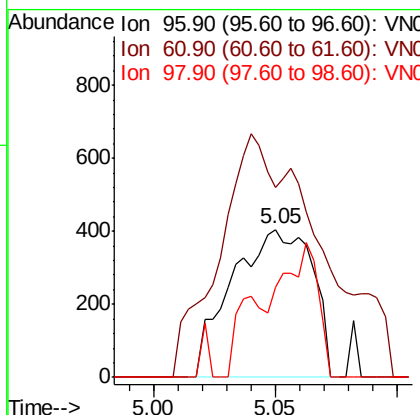
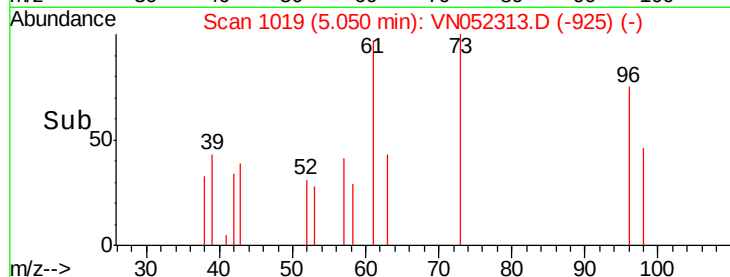
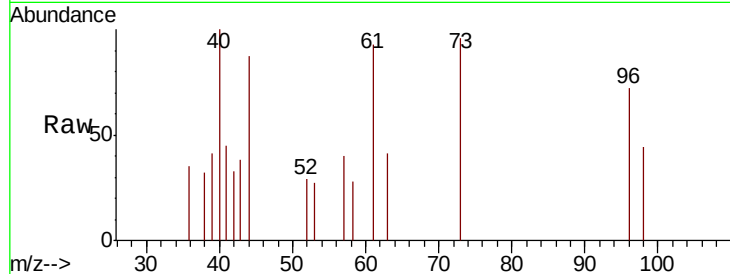
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 96 Resp: 927

Ion	Ratio	Lower	Upper
96	100		
61	82.2	123.6	185.4#
98	61.0	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#22

Diisopropyl ether

Concen: 0.254 ug/l m

RT: 5.96 min Scan# 1303

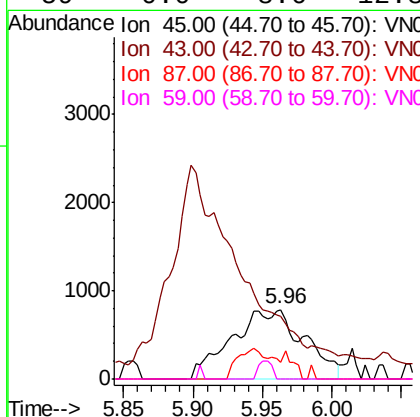
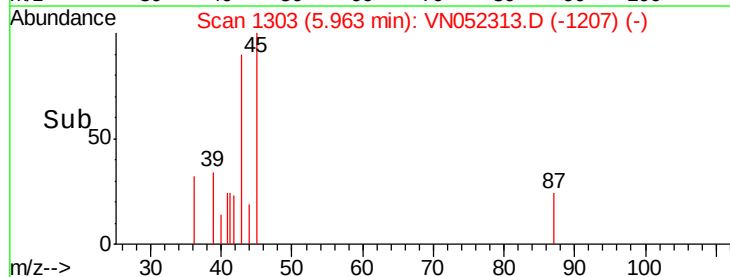
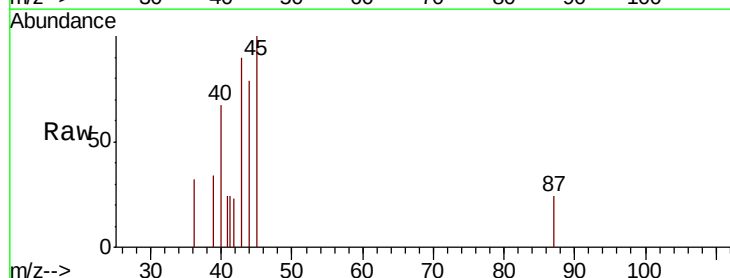
Delta R.T. 0.01 min

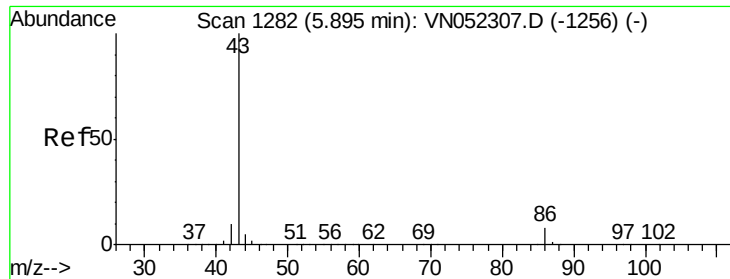
Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion: 45 Resp: 2864

Ion	Ratio	Lower	Upper
45	100		
43	90.5	51.4	77.2#
87	23.7	18.8	28.2
59	0.0	8.6	12.8#





#23

Vinyl Acetate

Concen: 0.985 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 43 Resp: 7544

Ion Ratio Lower Upper

43 100

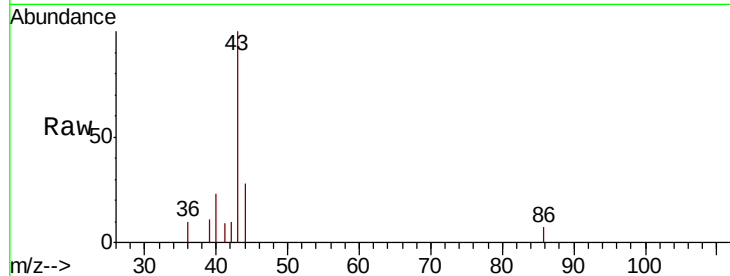
86 8.0 6.5 9.7

Manual Integrations

APPROVED

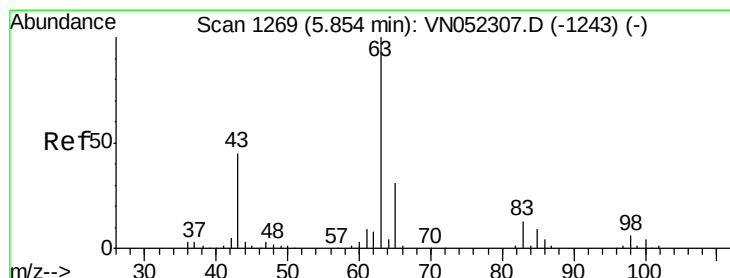
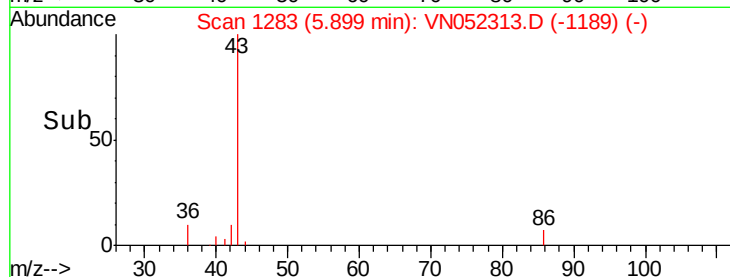
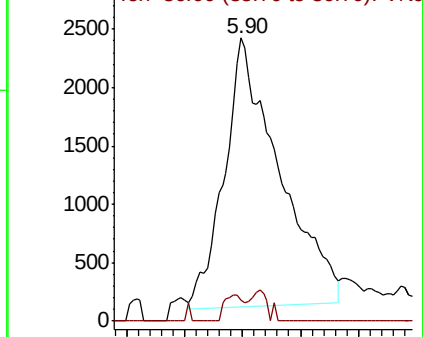
MMDadoda

11/20/2018 2:53:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 0.239 ug/l m

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

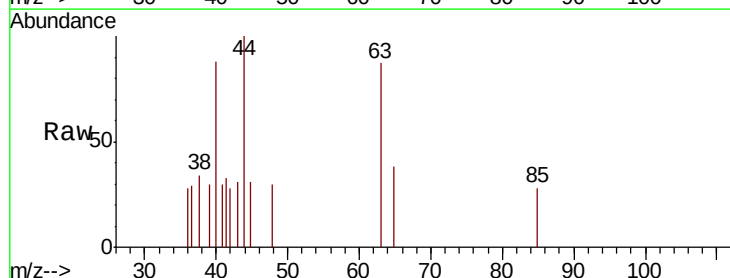
Tgt Ion: 63 Resp: 1445

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

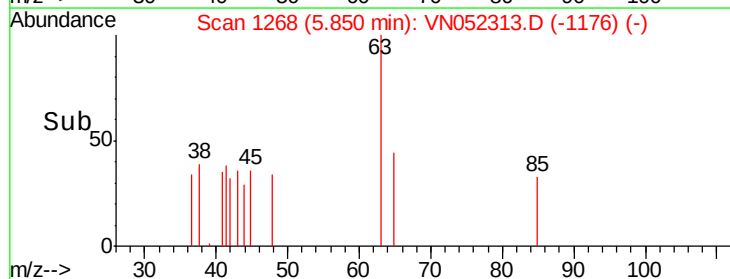
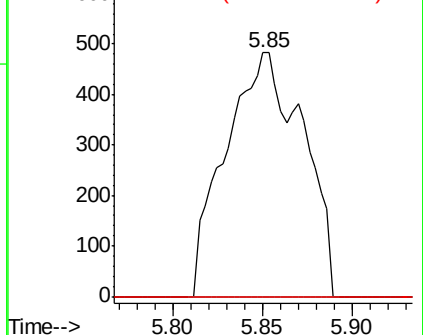
100 0.0 1.9 5.7#

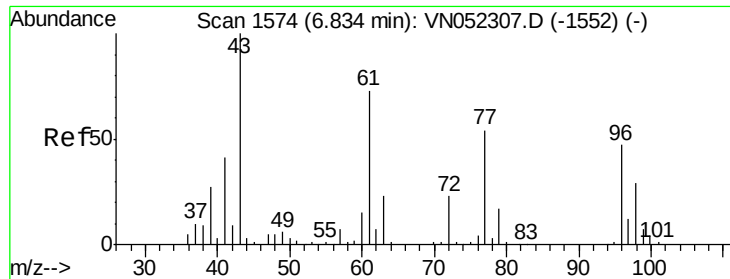


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 1.697 ug/l m

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 43 Resp: 2432

Ion Ratio Lower Upper

43 100

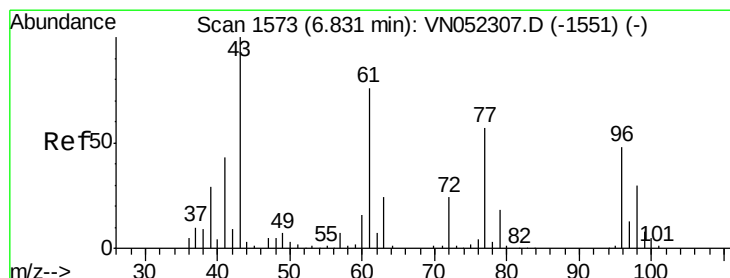
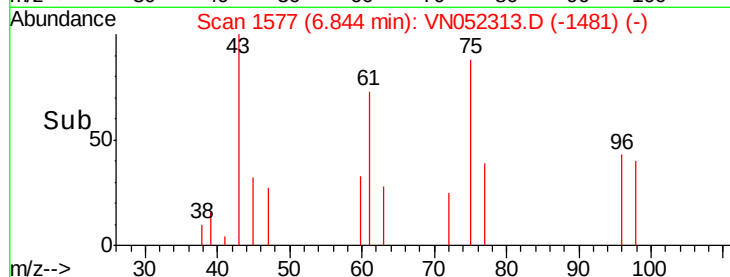
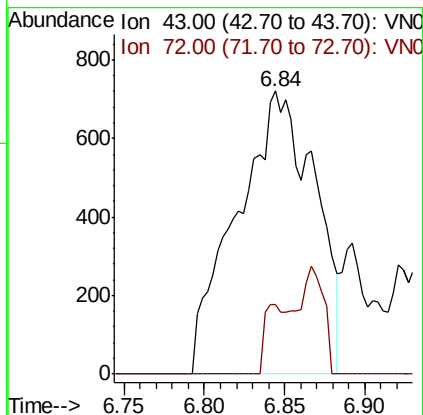
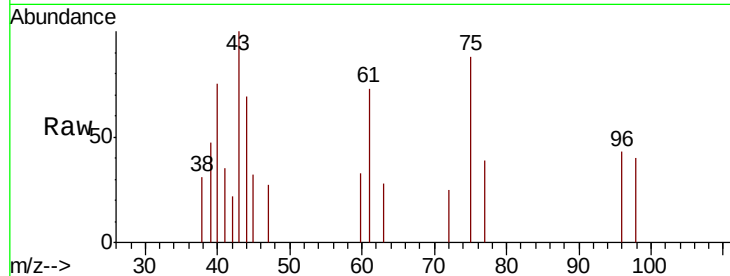
72 24.7 18.6 27.8

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



#27

cis-1,2-Dichloroethene

Concen: 0.271 ug/l m

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

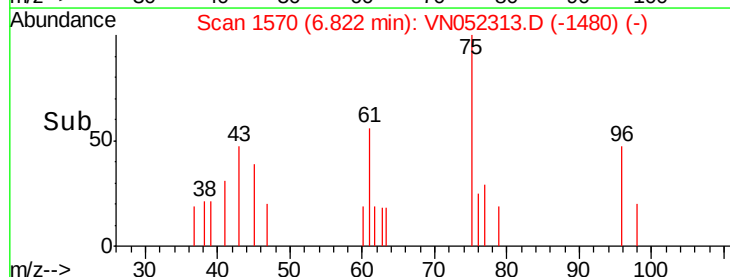
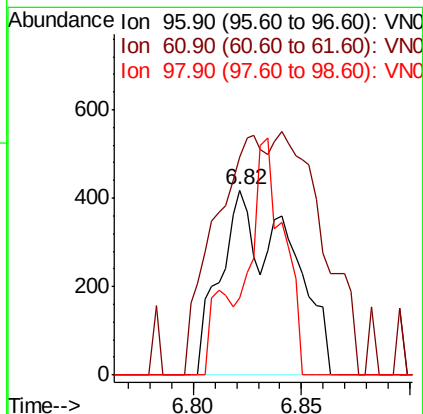
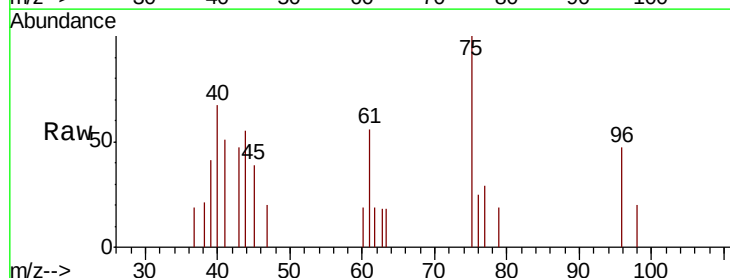
Tgt Ion: 96 Resp: 917

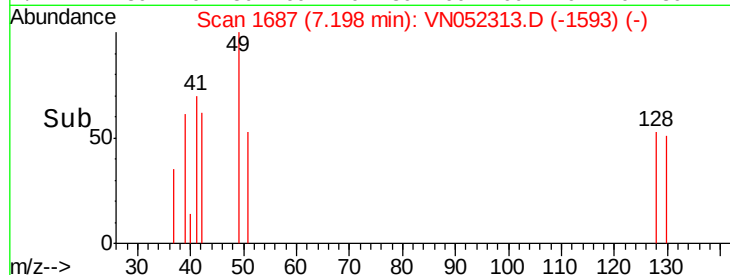
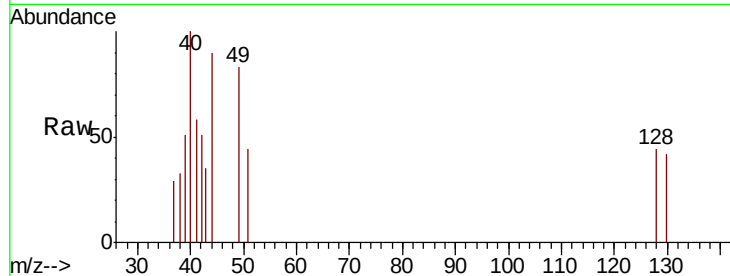
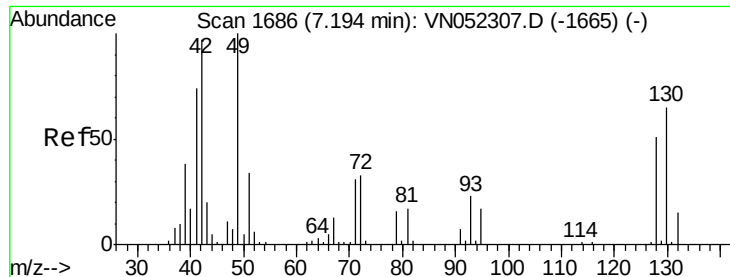
Ion Ratio Lower Upper

96 100

61 100.3 0.0 316.8

98 61.1 0.0 126.6





#28

Bromochloromethane

Concen: 0.361 ug/l m

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tot Ion:	49	Resp:	1124
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	3.0
130	17.5	50.4	75.6#

Instrument :

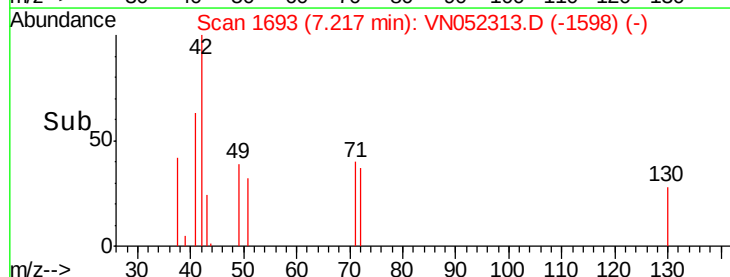
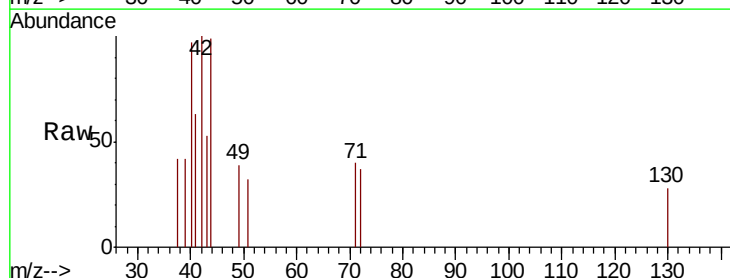
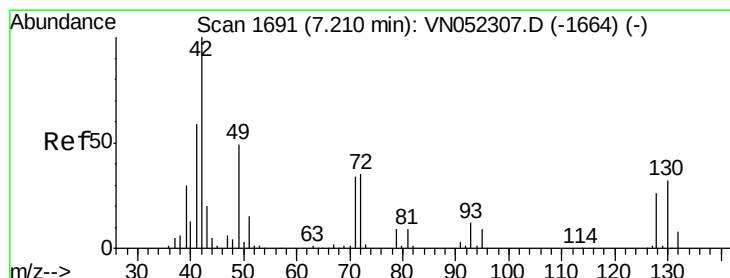
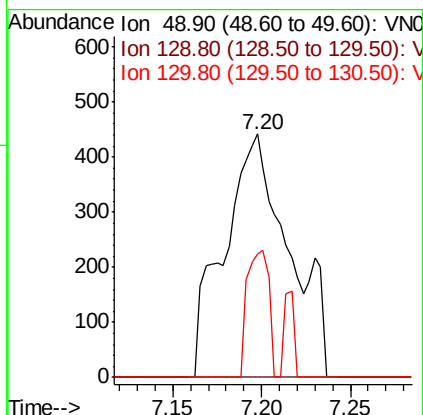
MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#29

Tetrahydrofuran

Concen: 1.063 ug/l

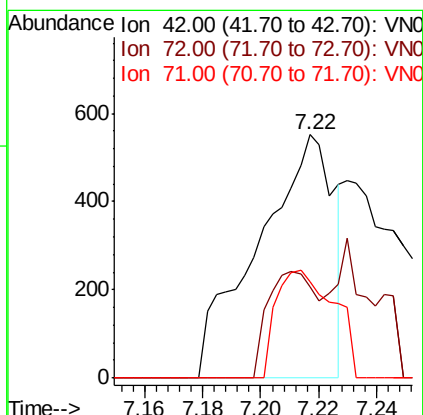
RT: 7.22 min Scan# 1693

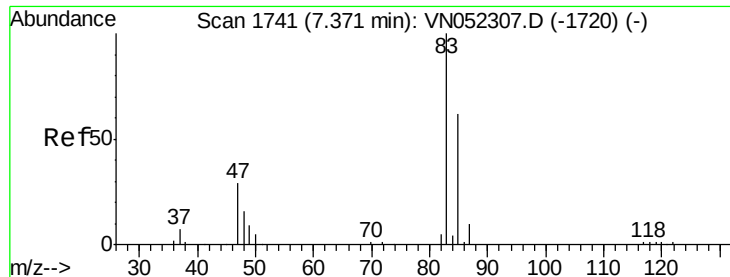
Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	42	Resp:	1001
Ion Ratio	Lower	Upper	
42	100		
72	27.8	28.6	42.8#
71	34.0	26.7	40.1





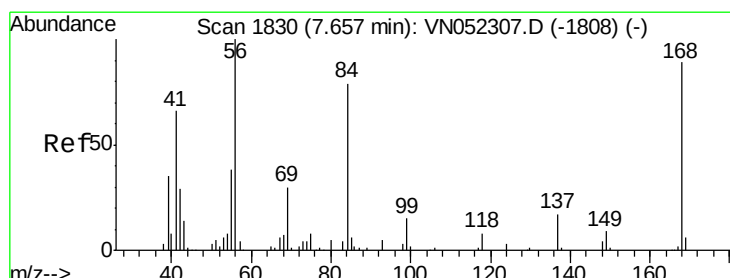
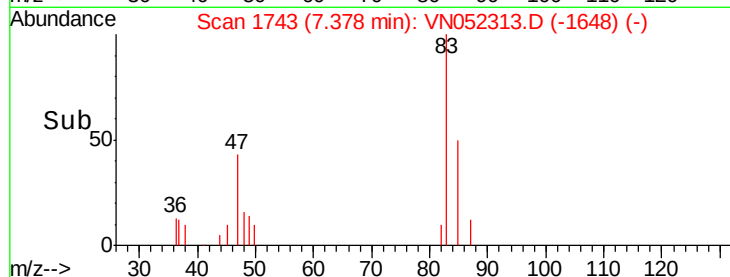
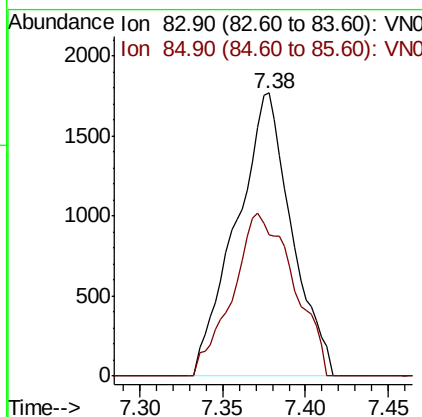
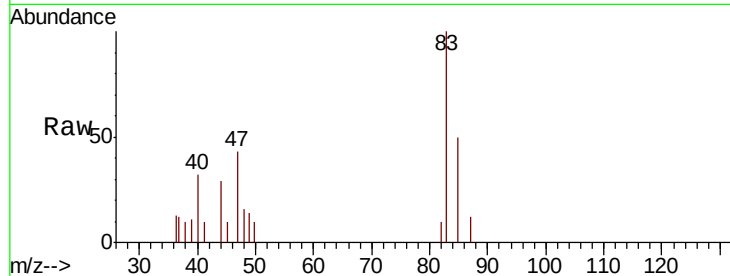
#30
Chloroform
Concen: 0.715 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 83 Resp: 4125
Ion Ratio Lower Upper
83 100
85 50.1 49.4 74.2

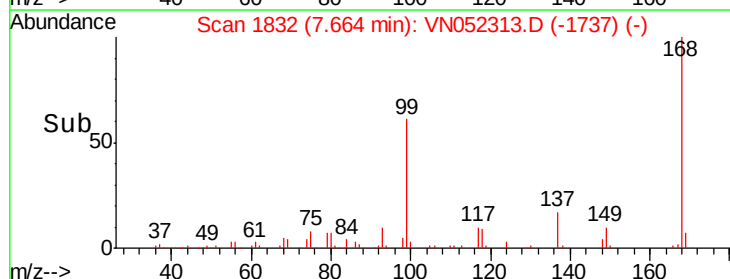
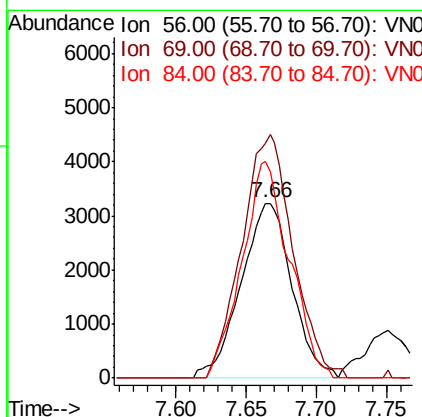
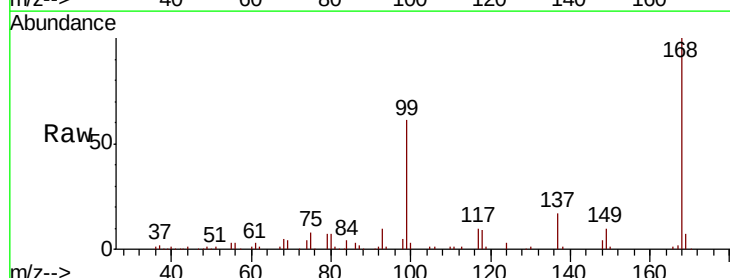
Manual Integrations
APPROVED

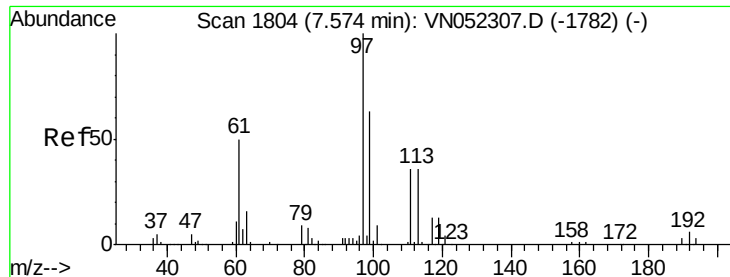
MMDadoda
11/20/2018 2:53:51 PM



#31
Cyclohexane
Concen: 0.392 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 56 Resp: 8118
Ion Ratio Lower Upper
56 100
69 134.5 23.8 35.8#
84 123.7 63.0 94.6#





#32

1,1,1-Trichloroethane

Concen: 0.231 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

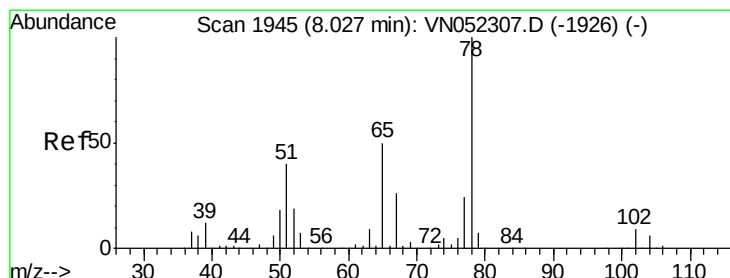
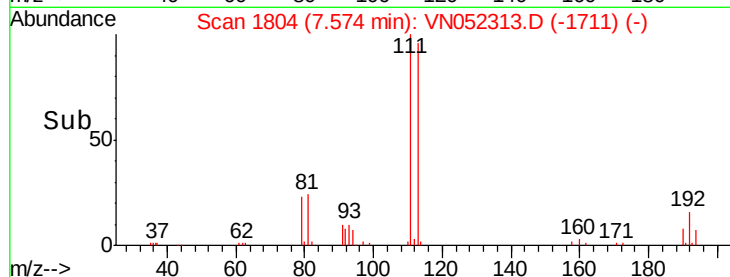
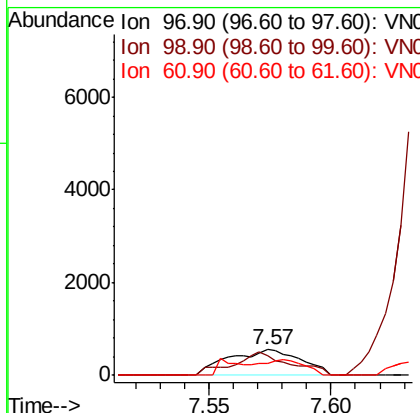
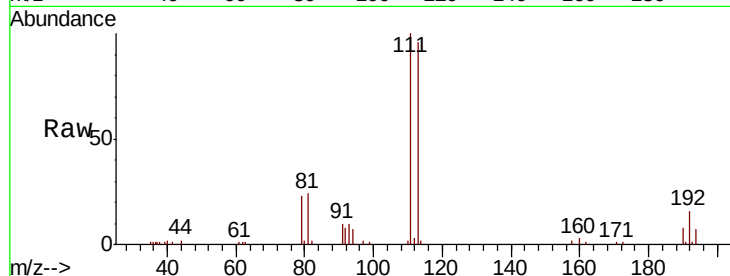
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:	97	Resp:	1136
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.2	75.2#
61	30.9	40.2	60.4#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#33

1,2-Dichloroethane-d4

Concen: 0.231 ug/l

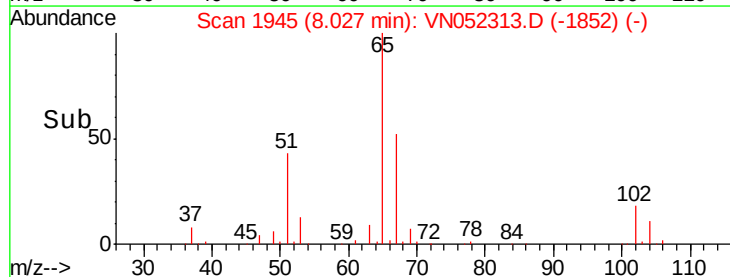
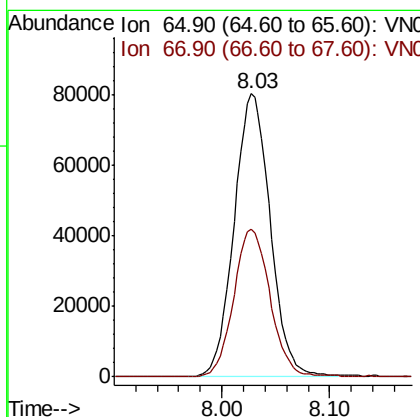
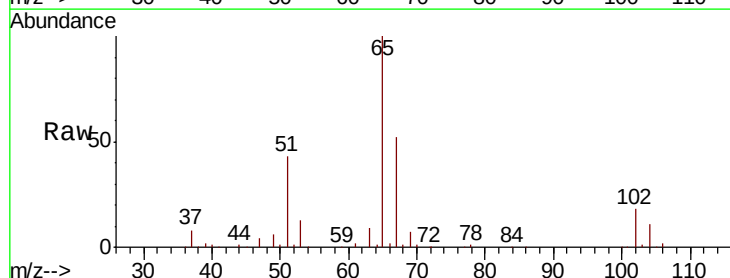
RT: 8.03 min Scan# 1945

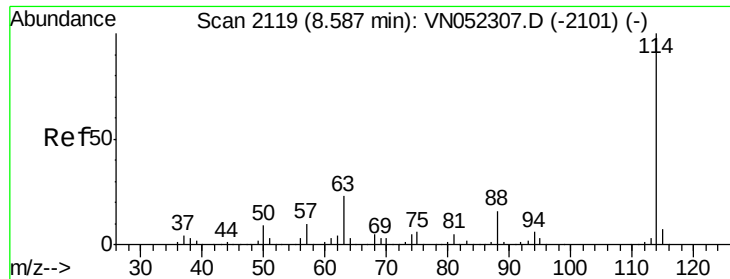
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	65	Resp:	187204
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	105.2





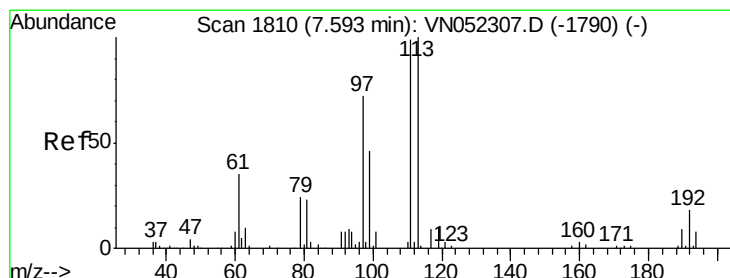
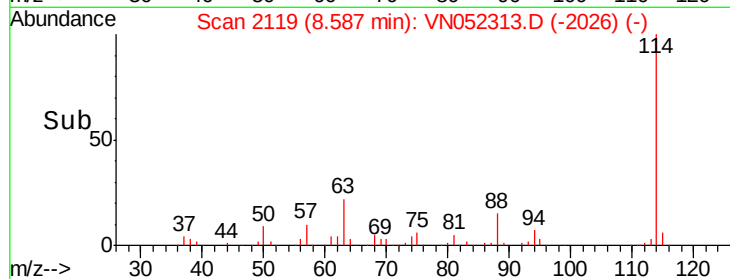
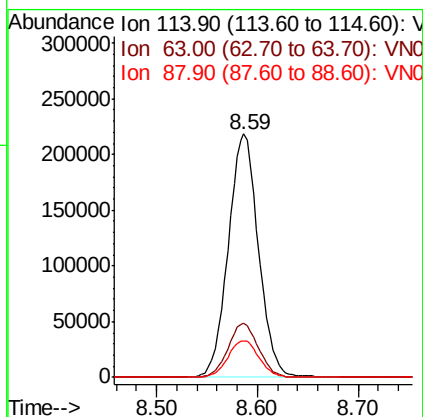
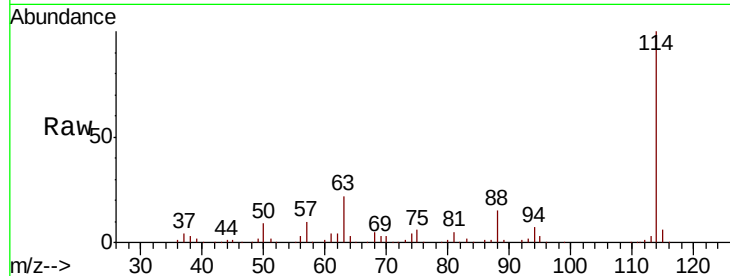
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
114	100	454481		
63	22.1	0.0	45.4	
88	15.1	0.0	31.2	

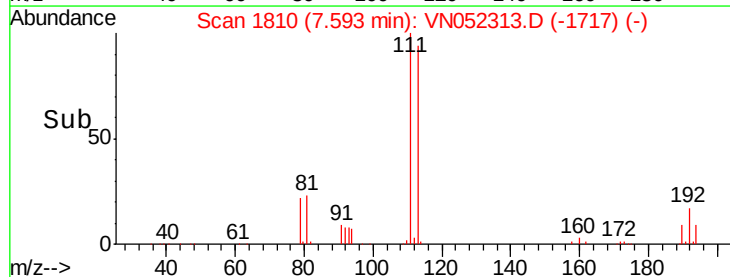
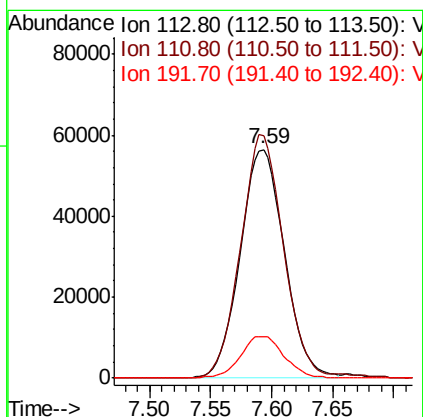
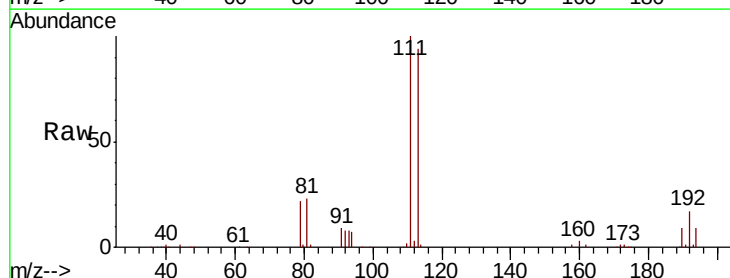
Manual Integrations
 APPROVED

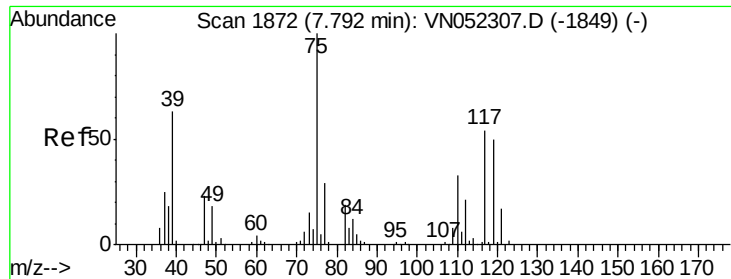
MMDadoda
 11/20/2018 2:53:51 PM



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	141955		
111	103.8	81.0	121.6	
192	18.0	13.8	20.6	





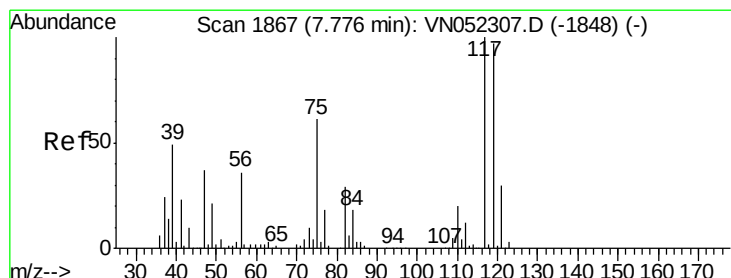
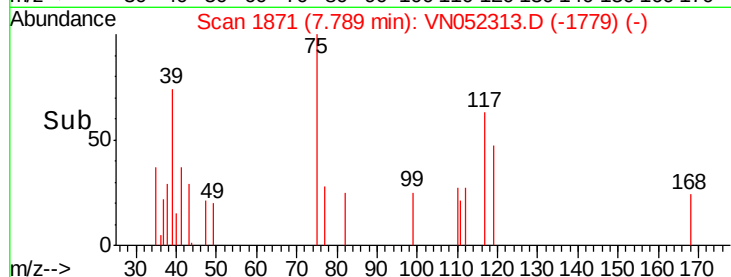
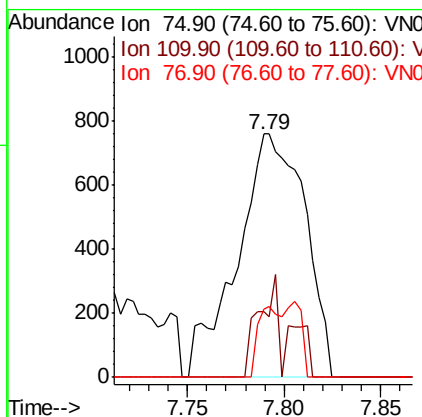
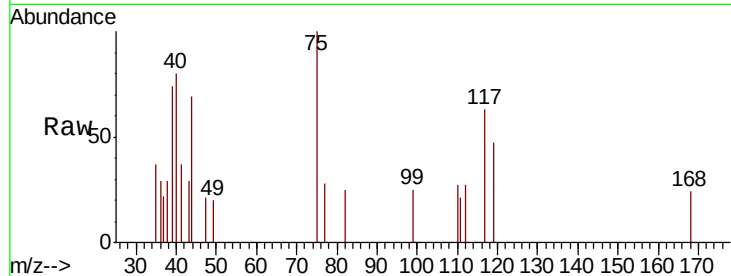
#36
1,1-Dichloropropene
Concen: 0.407 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.5	16.5	49.5#
77	10.3	24.2	36.2#

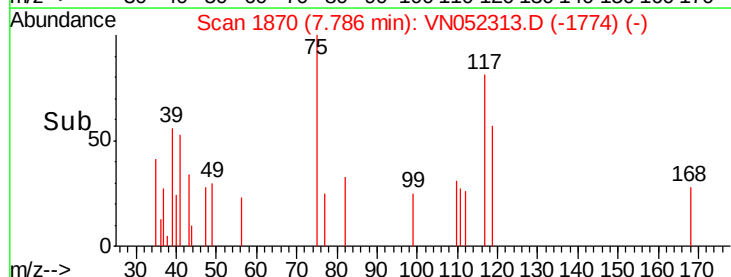
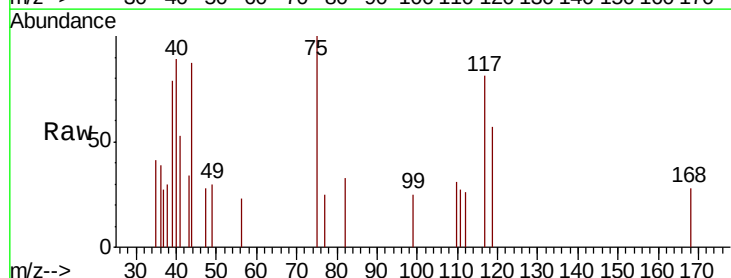
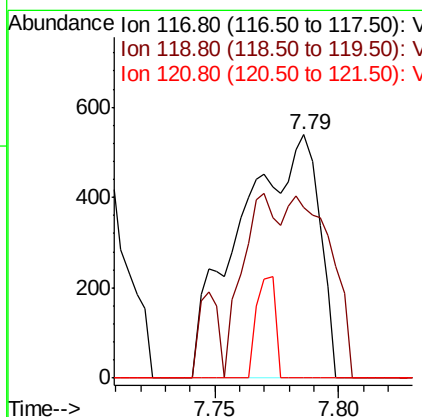
Manual Integrations
APPROVED

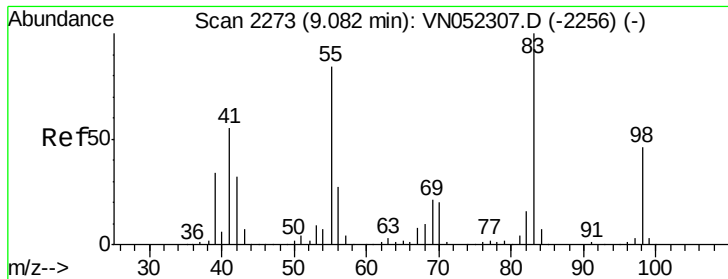
MMDadoda
11/20/2018 2:53:51 PM



#38
Carbon Tetrachloride
Concen: 0.283 ug/l m
RT: 7.79 min Scan# 1870
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	69.9	77.4	116.0#
121	0.0	24.0	36.0#





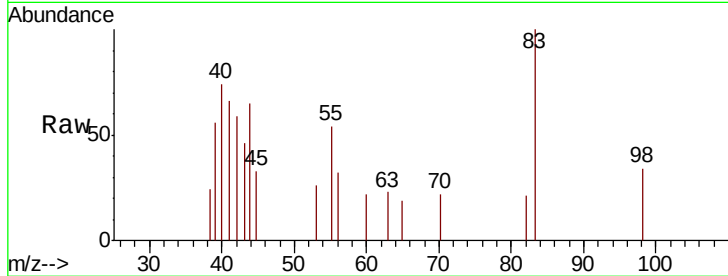
#39
Methylvlcyclohexane
Concen: 0.285 ug/l
RT: 9.09 min Scan# 2275
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	54.0	66.8	100.2#
98	34.2	36.4	54.6#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM

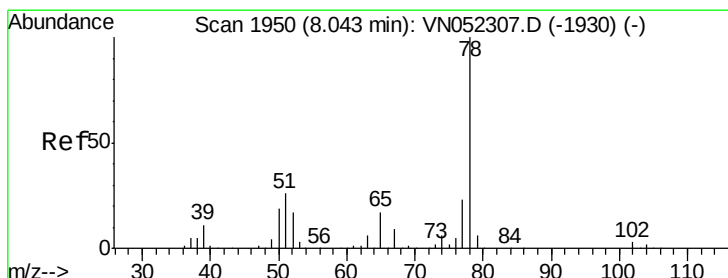
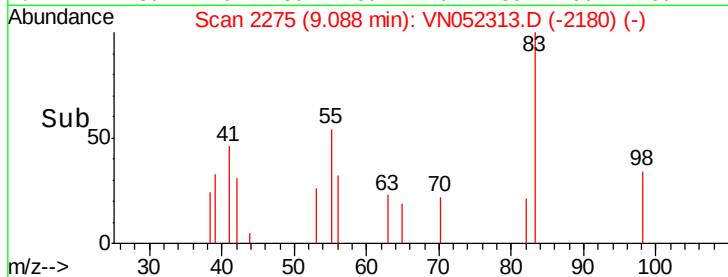
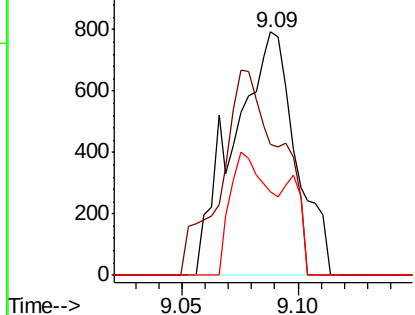


Abundance

Ion 83.00 (82.70 to 83.70): VN0

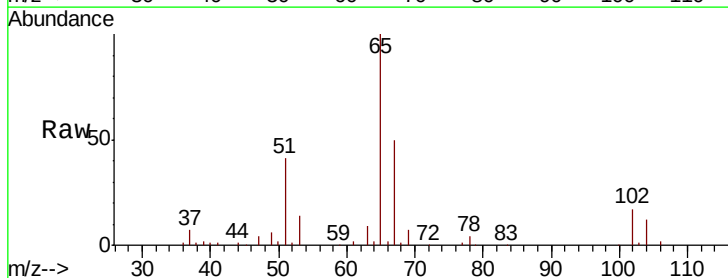
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 0.249 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

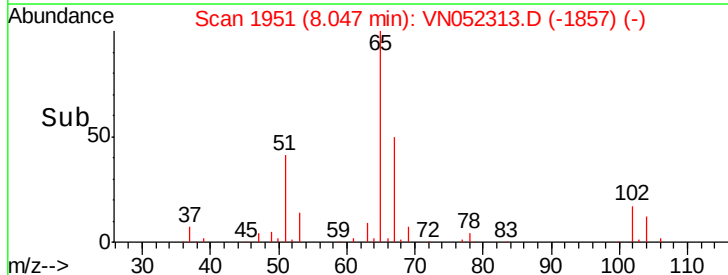
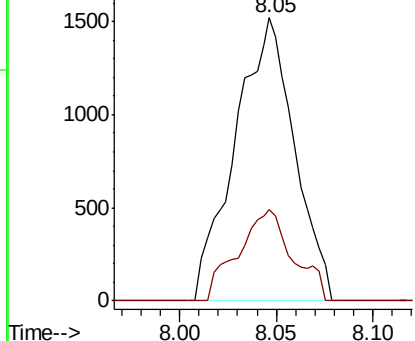
Tgt Ion	Ratio	Lower	Upper
78	100		
77	32.1	18.7	28.1#

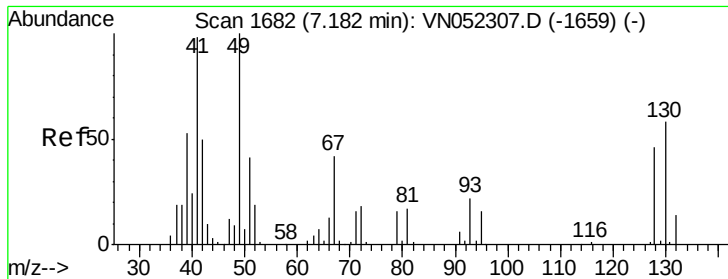


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 4.053 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 41 Resp: 709

Ion Ratio Lower Upper

41 100

39 26.2 0.0 0.0#

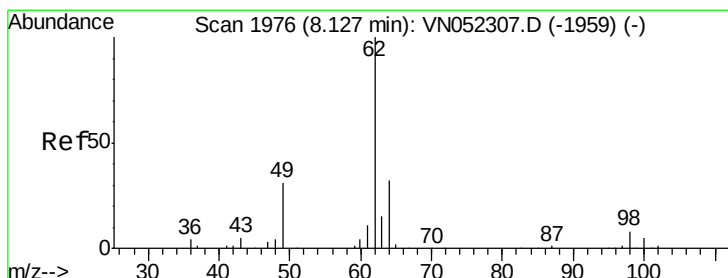
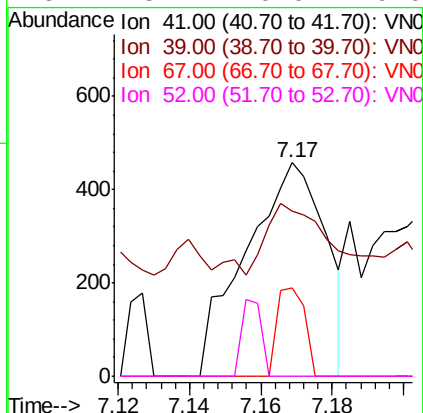
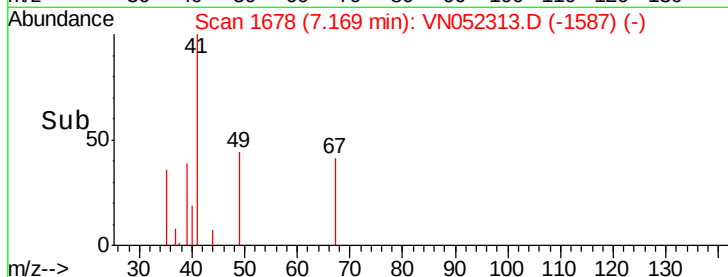
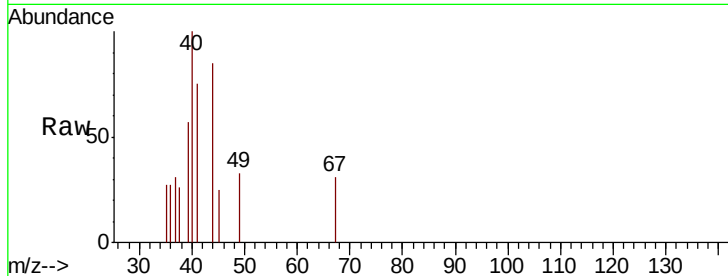
67 14.2 0.0 0.0#

52 8.7 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda

11/20/2018 2:53:51 PM



#42

1,2-Dichloroethane

Concen: 0.292 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN052313.D

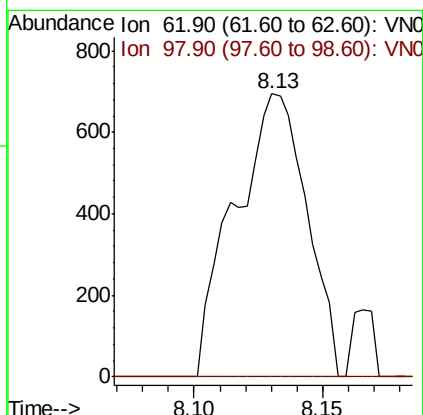
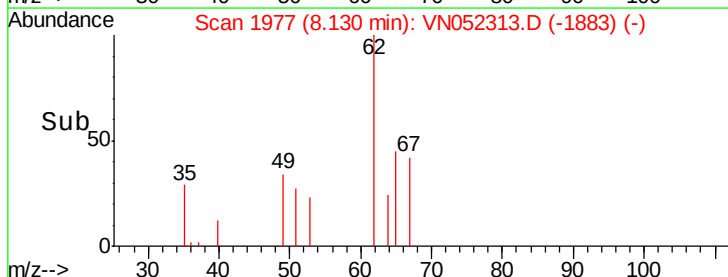
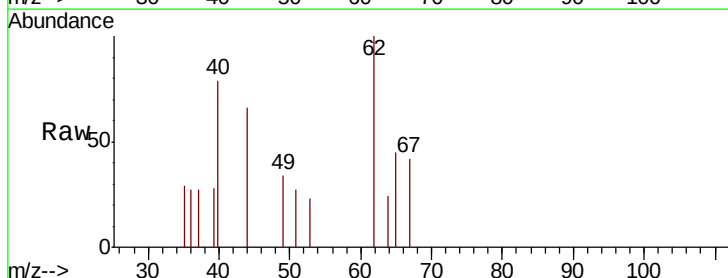
Acq: 14 Nov 2018 15:22

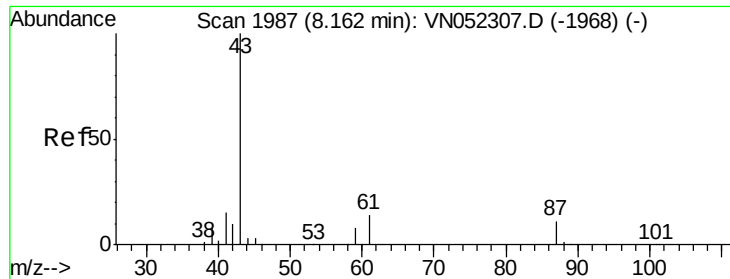
Tgt Ion: 62 Resp: 1355

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.6





#43

Isopropyl Acetate

Concen: 0.669 ug/l

RT: 8.20 min Scan# 1998

Delta R.T. 0.04 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

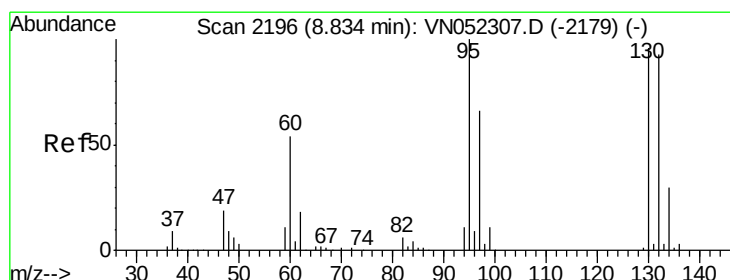
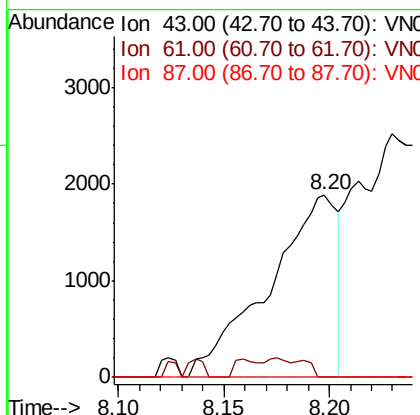
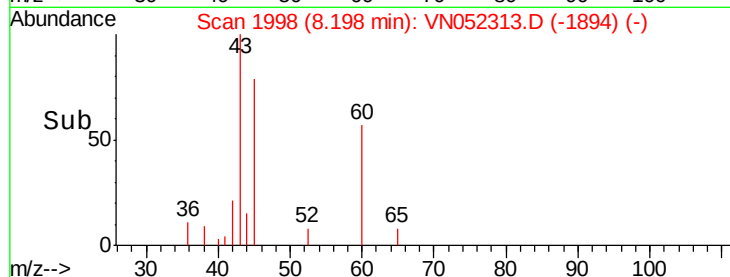
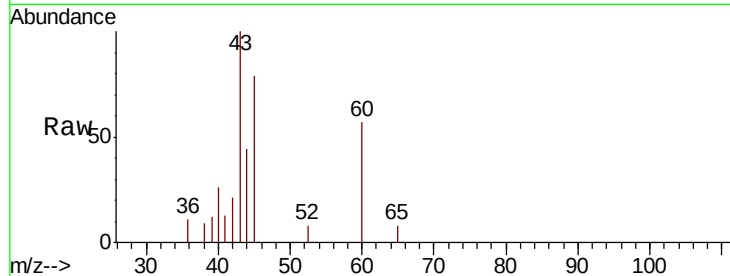
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:	43	Resp:	4267
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.0	18.0#
87	0.0	8.3	12.5#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#44

Trichloroethene

Concen: 0.312 ug/l

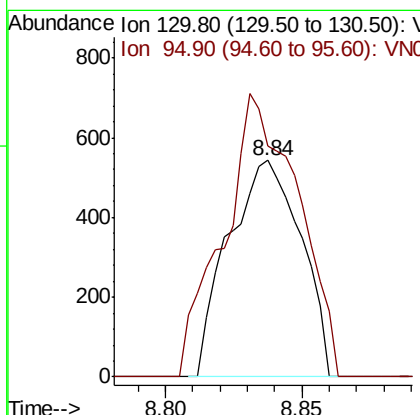
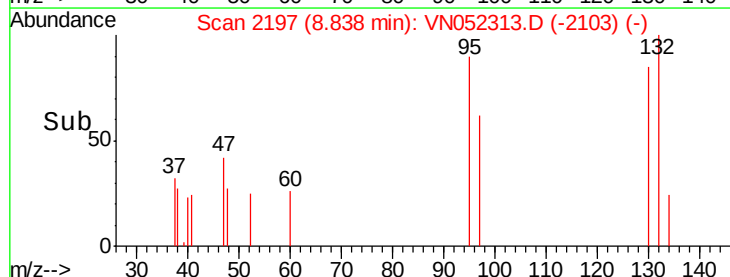
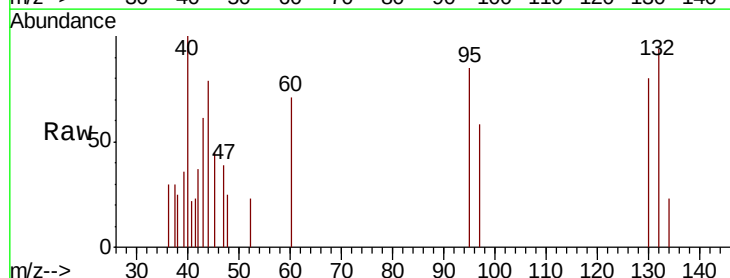
RT: 8.84 min Scan# 2197

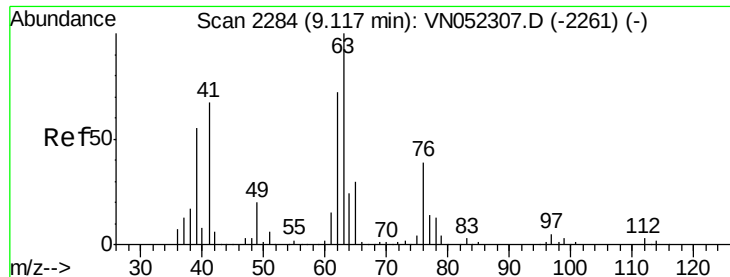
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	130	Resp:	1001
Ion	Ratio	Lower	Upper
130	100		
95	106.6	0.0	208.4





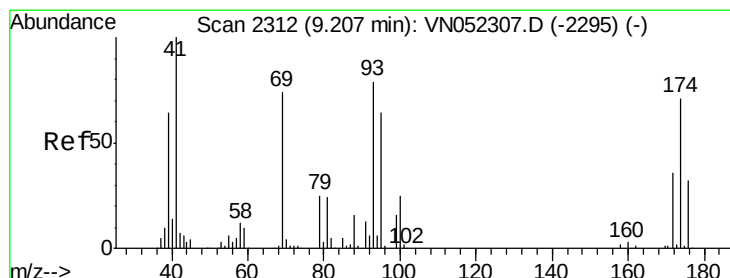
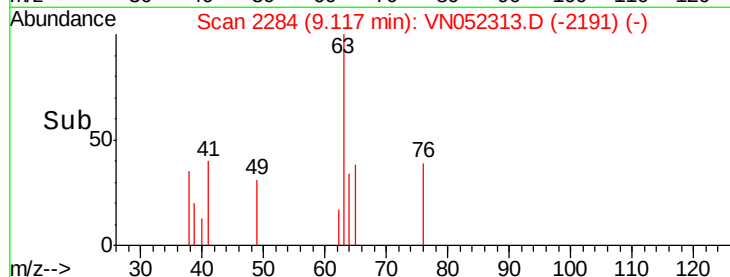
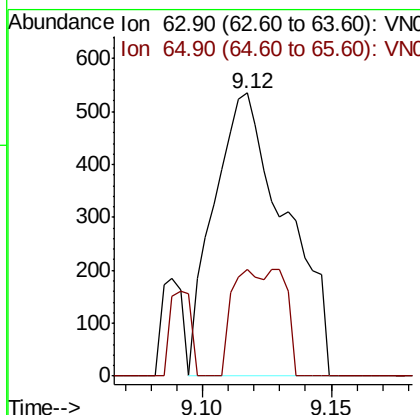
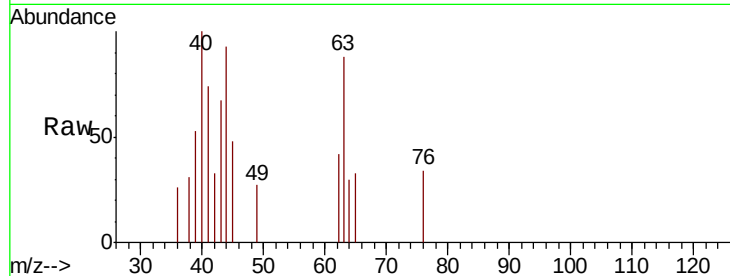
#45
 1,2-Dichloropropane
 Concen: 0.282 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion: 63 Resp: 1041
 Ion Ratio Lower Upper
 63 100
 65 37.6 24.2 36.4#

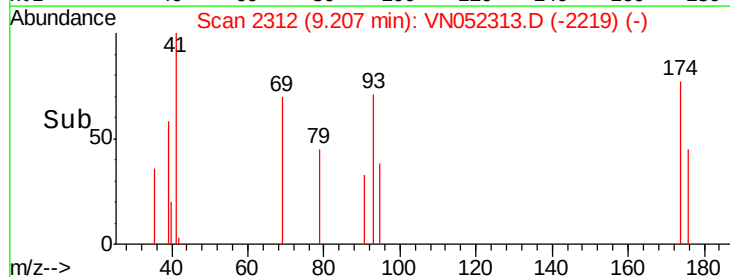
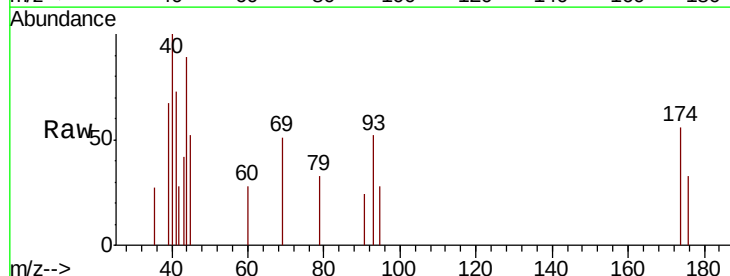
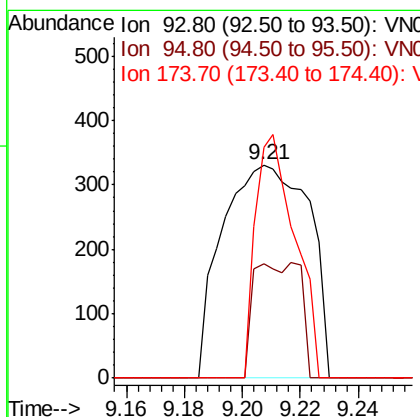
Manual Integrations
 APPROVED

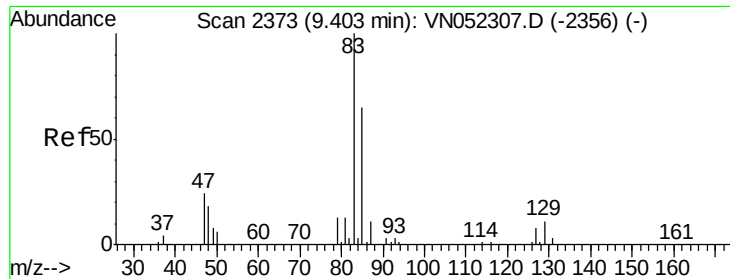
MMDadoda
 11/20/2018 2:53:51 PM



#46
 Dibromomethane
 Concen: 0.321 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion: 93 Resp: 686
 Ion Ratio Lower Upper
 93 100
 95 19.1 64.2 96.2#
 174 52.2 70.9 106.3#





#47

Bromodichloromethane

Concen: 0.360 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

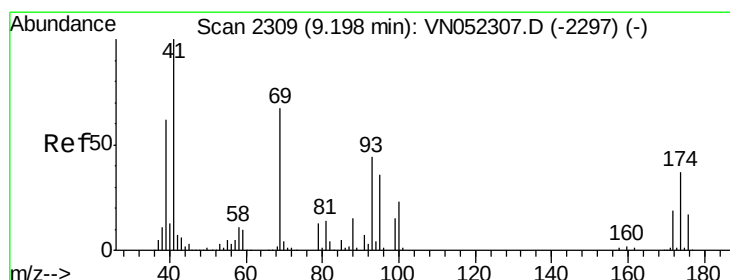
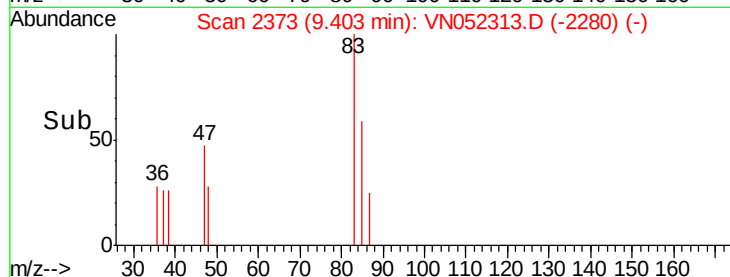
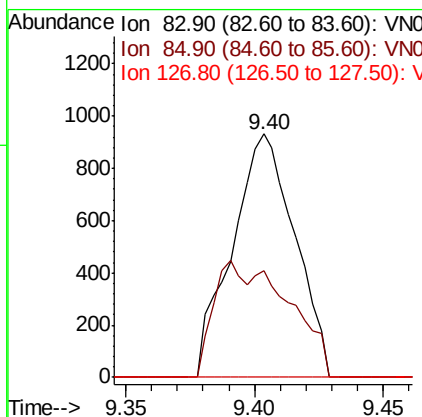
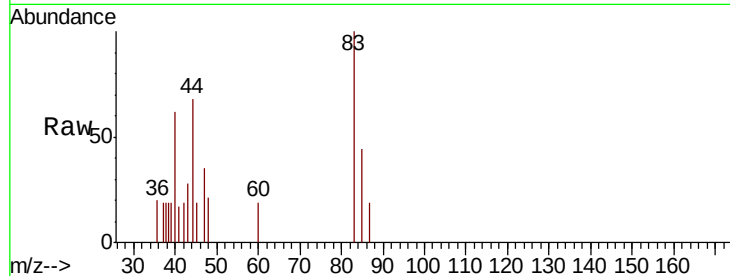
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:	83	Resp:	1578
Ion	Ratio	Lower	Upper
83	100		
85	43.6	52.2	78.4#
127	0.0	6.7	10.1#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#48

Methyl methacrylate

Concen: 0.455 ug/l

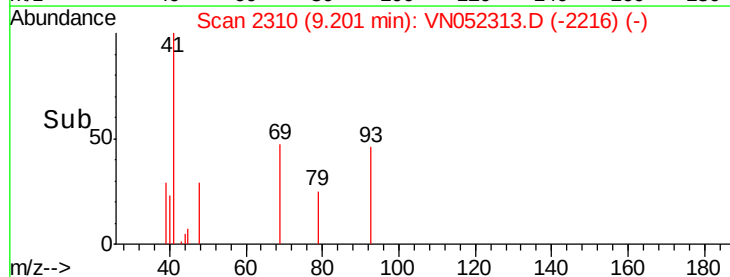
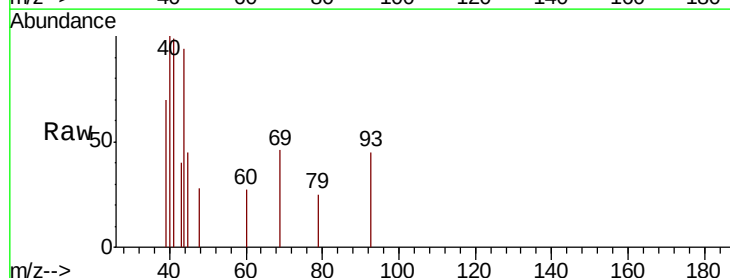
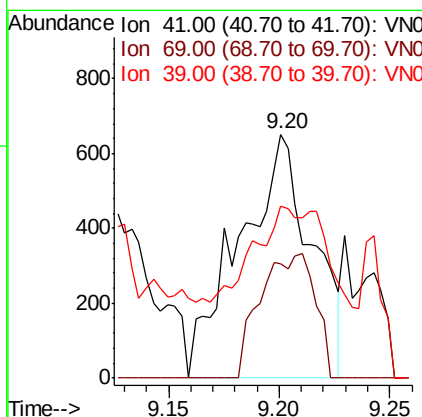
RT: 9.20 min Scan# 2310

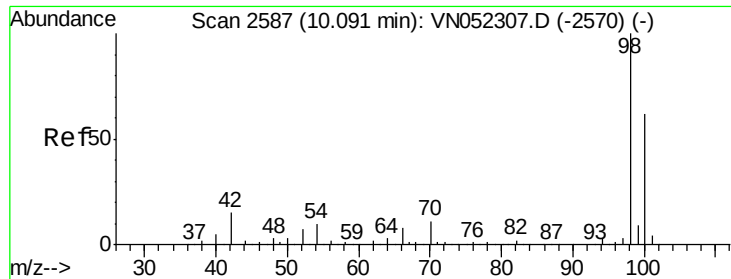
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	41	Resp:	1472
Ion	Ratio	Lower	Upper
41	100		
69	39.0	57.1	85.7#
39	16.2	52.5	78.7#





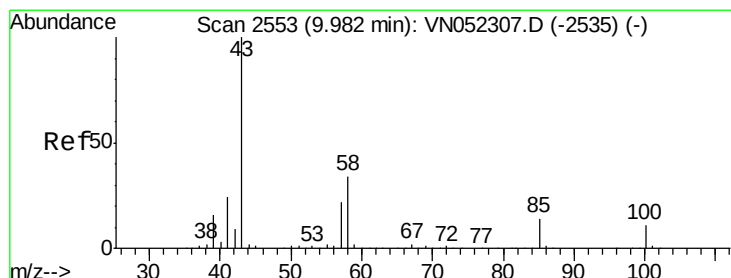
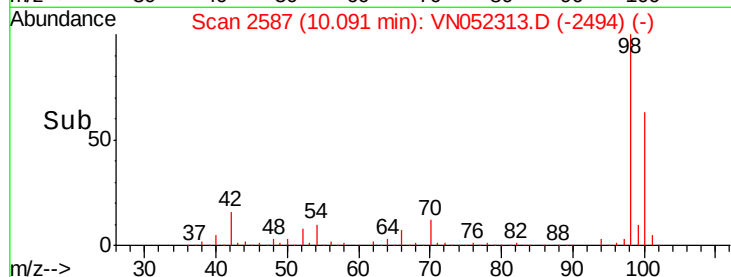
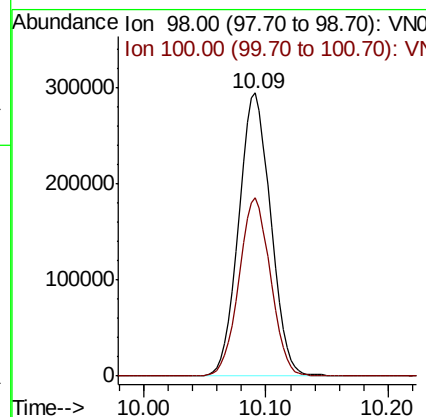
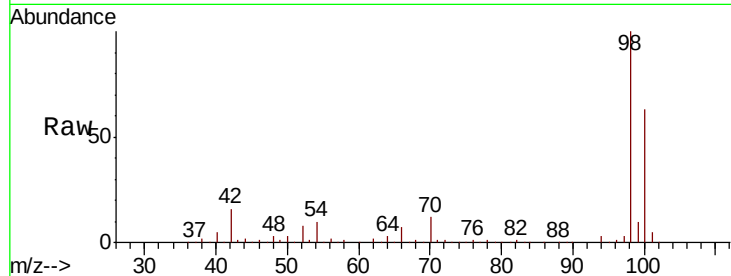
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 98 Resp: 535923
Ion Ratio Lower Upper
98 100
100 62.1 49.5 74.3

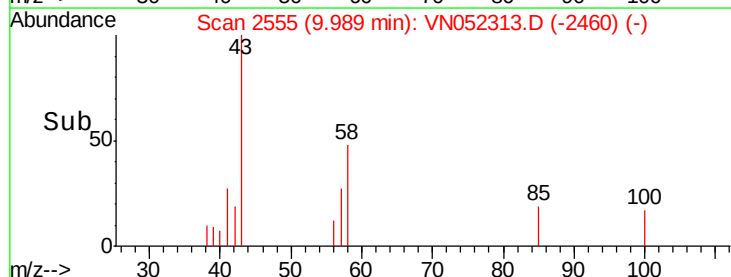
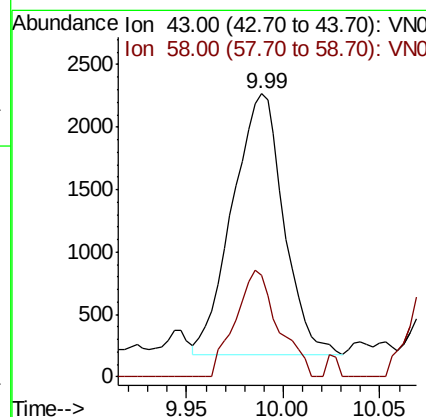
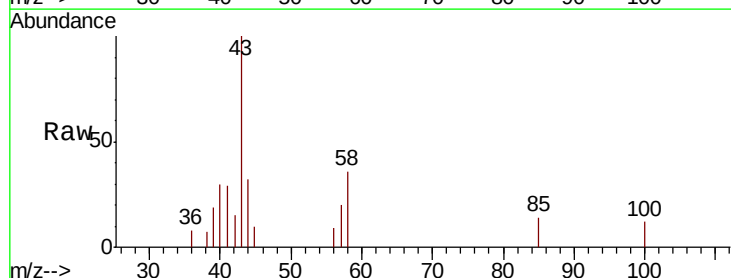
Manual Integrations
APPROVED

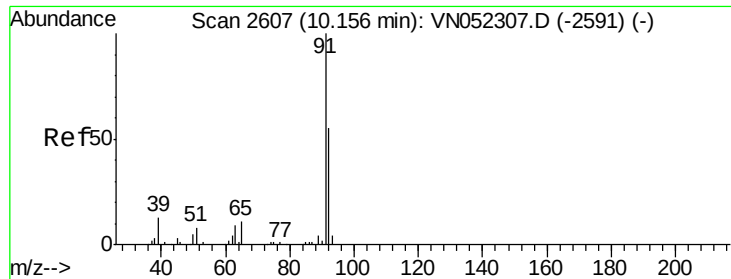
MMDadoda
11/20/2018 2:53:51 PM



#51
4-Methyl-2-Pentanone
Concen: 1.201 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 43 Resp: 3858
Ion Ratio Lower Upper
43 100
58 34.0 27.0 40.6





#52

Toluene

Concen: 0.296 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 92 Resp: 2306

Ion Ratio Lower Upper

92 100

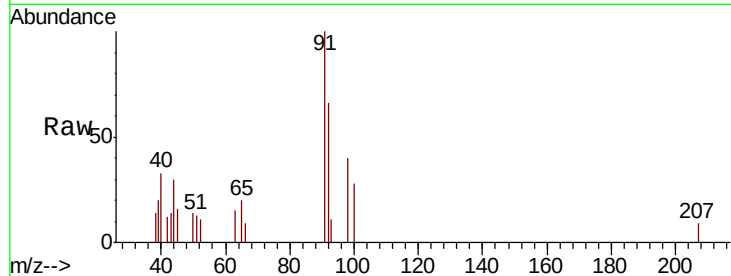
91 152.4 143.6 215.4

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

2000

1500

1000

500

0

10.10 10.15 10.20

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

10.16

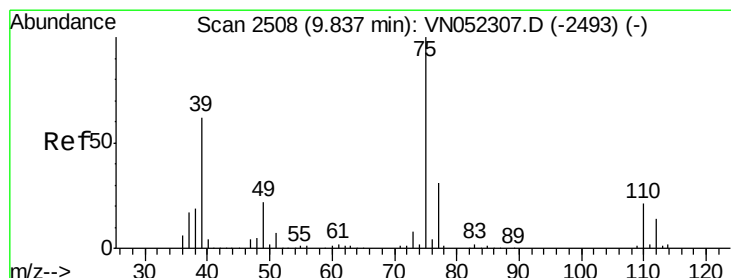
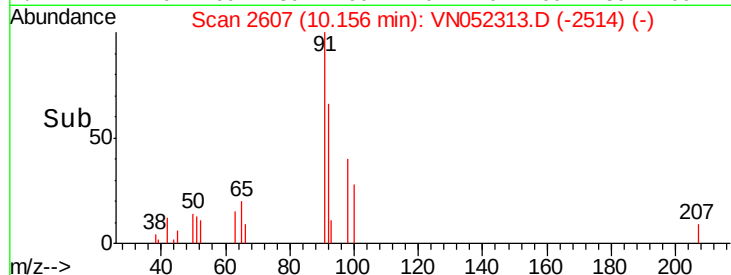
10.16

10.16

10.16

10.16

10.16



#54

cis-1,3-Dichloropropene

Concen: 0.268 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

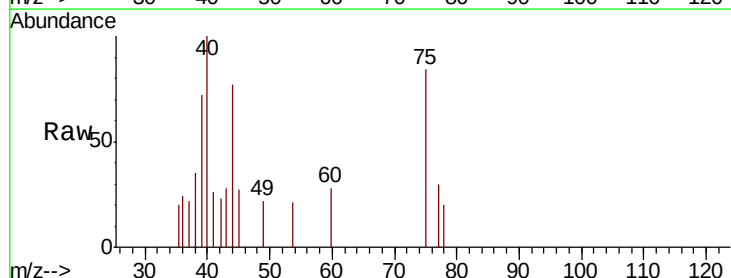
Tgt Ion: 75 Resp: 1351

Ion Ratio Lower Upper

75 100

77 35.7 24.6 36.8

39 48.7 49.9 74.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

800

600

400

200

0

9.80 9.85

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

9.84

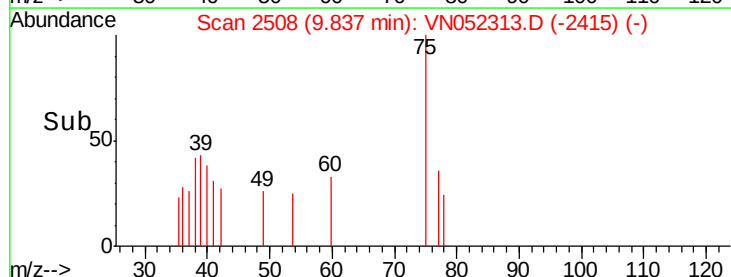
9.84

9.84

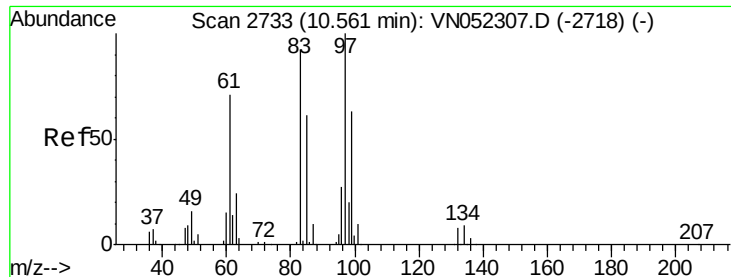
9.84

9.84

9.84



Time-->



#55

1,1,2-Trichloroethane

Concen: 0.295 ug/l m

RT: 10.55 min Scan# 2731

Delta R.T. -0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

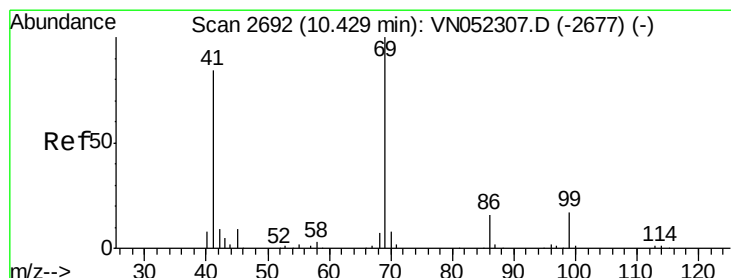
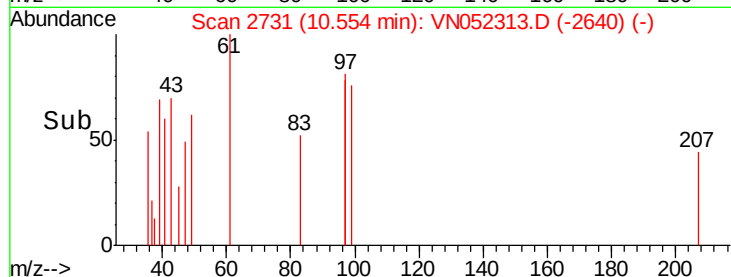
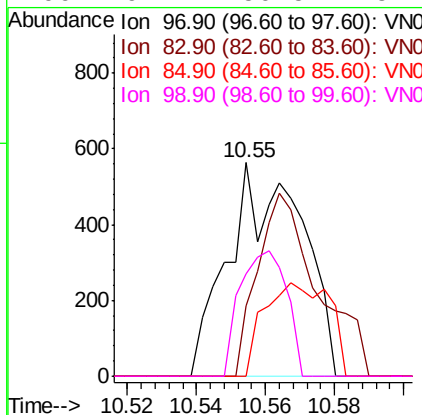
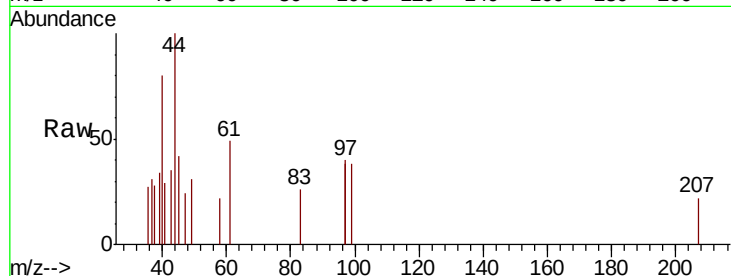
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:	97	Resp:	833
Ion	Ratio	Lower	Upper
97	100		
83	64.8	73.8	110.6#
85	0.0	49.0	73.4#
99	94.4	50.5	75.7#

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#56

Ethyl methacrylate

Concen: 0.225 ug/l

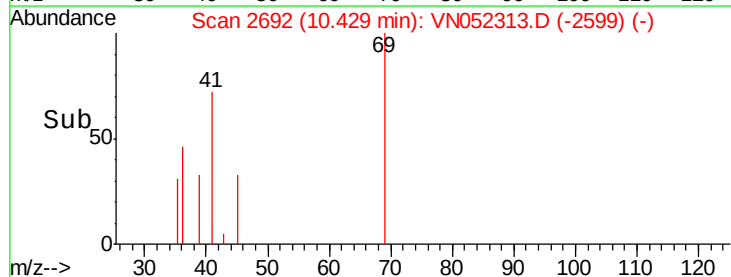
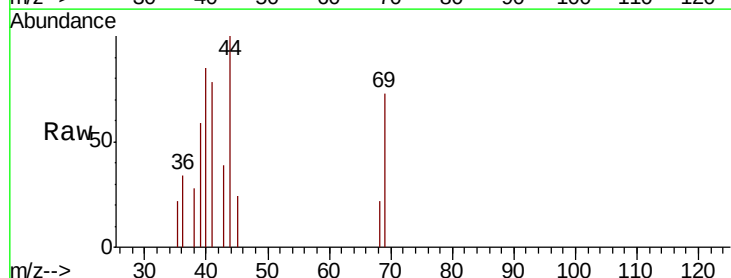
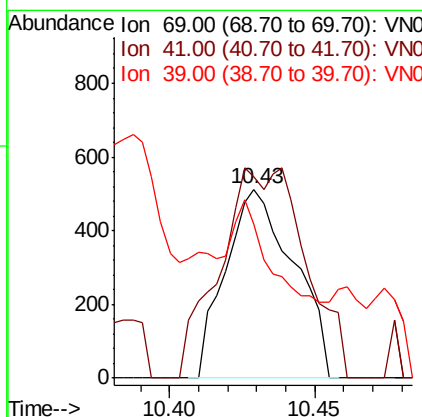
RT: 10.43 min Scan# 2692

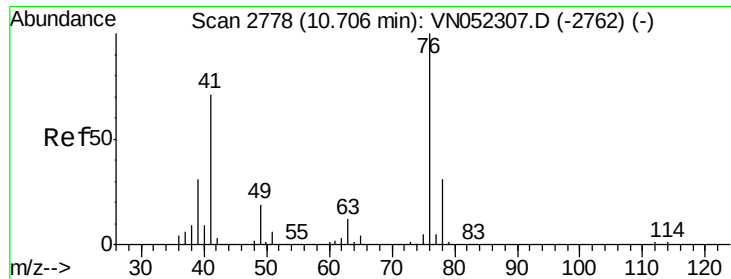
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion:	69	Resp:	836
Ion	Ratio	Lower	Upper
69	100		
41	75.4	64.8	97.2
39	30.9	41.0	61.6#





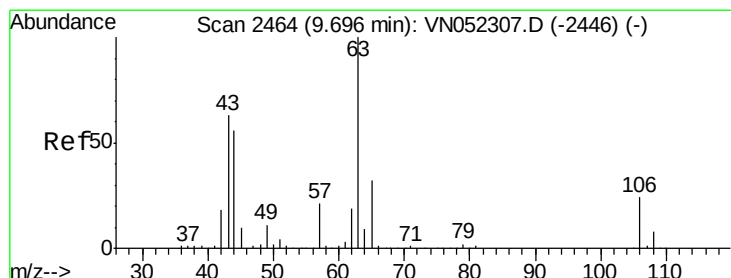
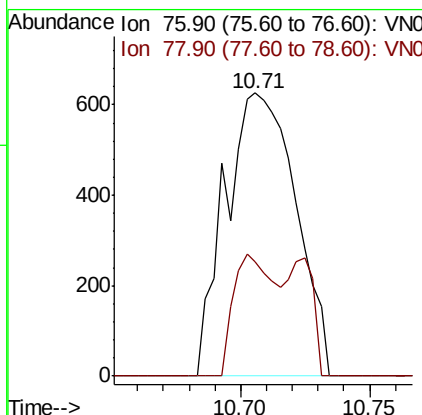
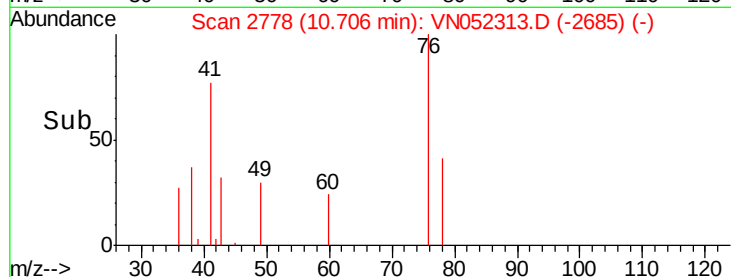
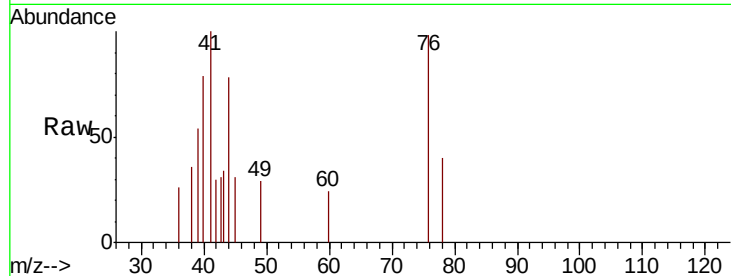
#57
 1,3-Dichloropropane
 Concen: 0.238 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion: 76 Resp: 1192
 Ion Ratio Lower Upper
 76 100
 78 25.0 25.7 38.5#

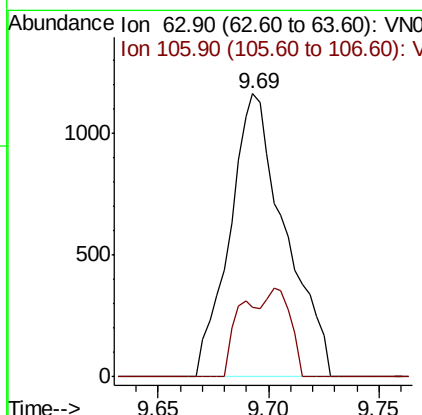
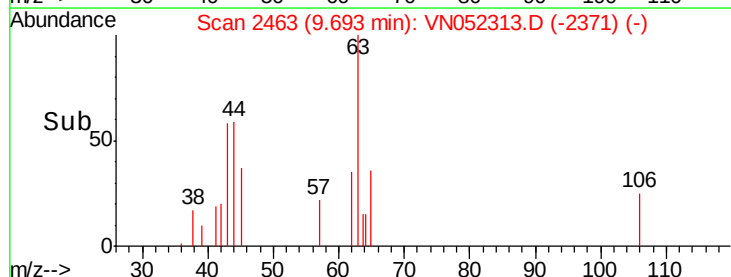
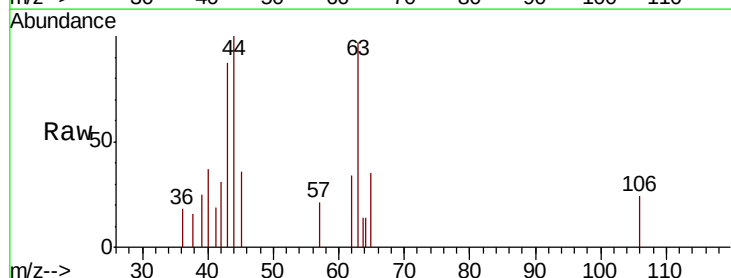
Manual Integrations
 APPROVED

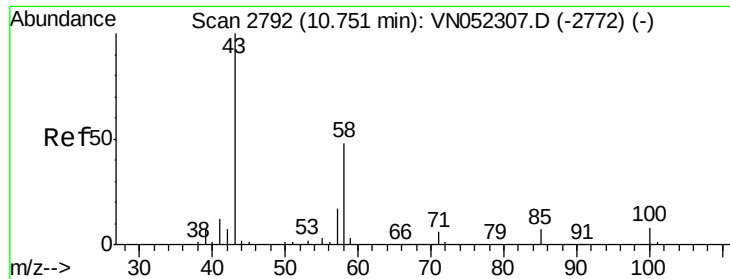
MMDadoda
 11/20/2018 2:53:51 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.959 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion: 63 Resp: 2026
 Ion Ratio Lower Upper
 63 100
 106 13.1 19.3 28.9#





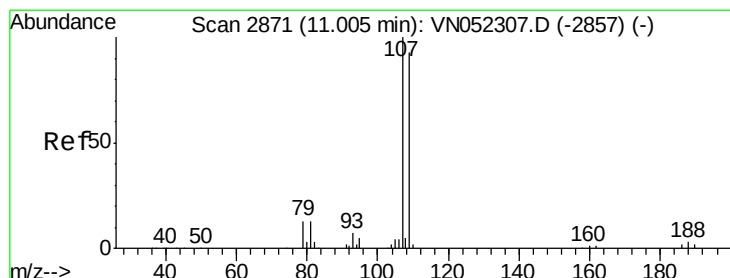
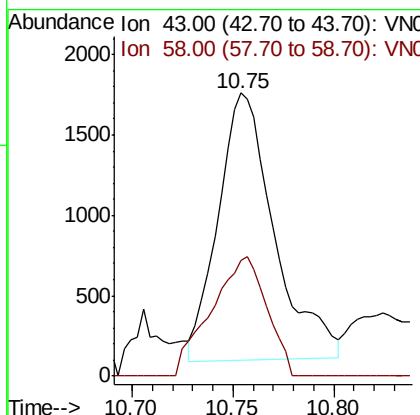
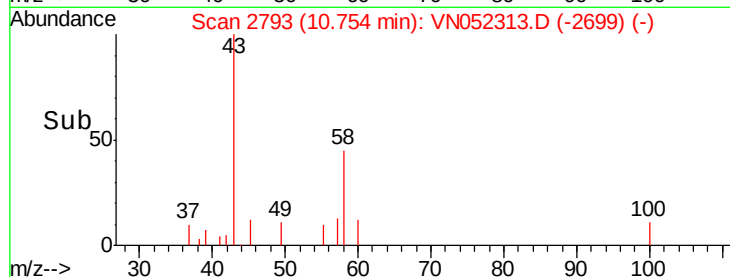
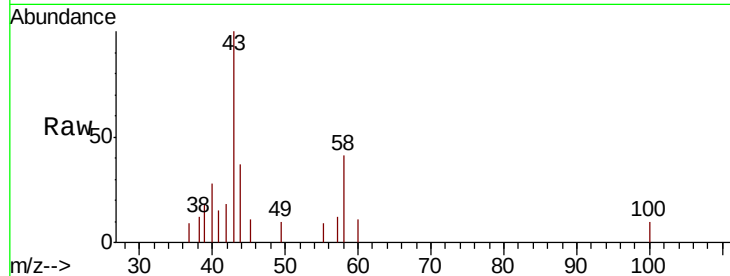
#59
2-Hexanone
Concen: 1.454 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 43 Resp: 3211
Ion Ratio Lower Upper
43 100
58 44.4 23.5 70.6

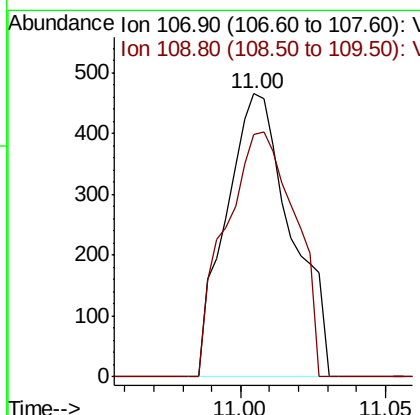
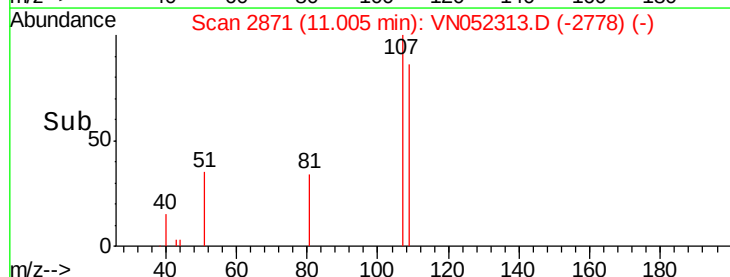
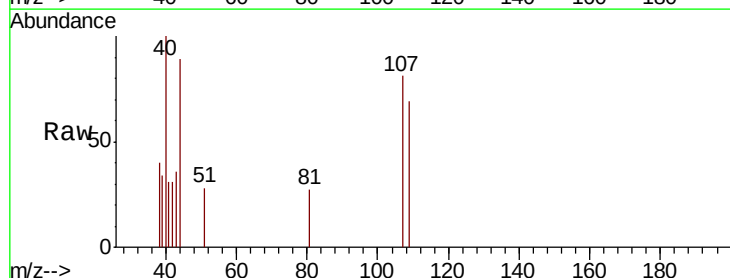
Manual Integrations
APPROVED

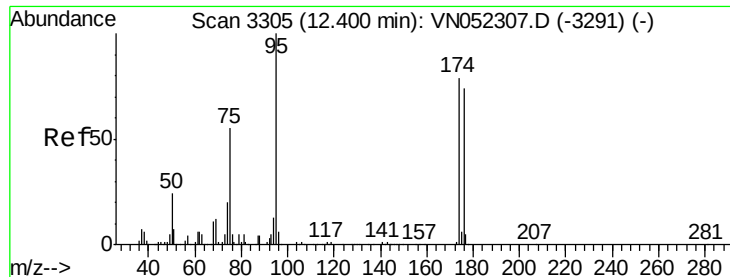
MMDadoda
11/20/2018 2:53:51 PM



#61
1,2-Dibromoethane
Concen: 0.258 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 107 Resp: 725
Ion Ratio Lower Upper
107 100
109 92.4 74.9 112.3





#62

4-Bromofluorobenzene

Concen: 0.258 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 95 Resp: 155669

Ion Ratio Lower Upper

95 100

174 76.5 0.0 156.0

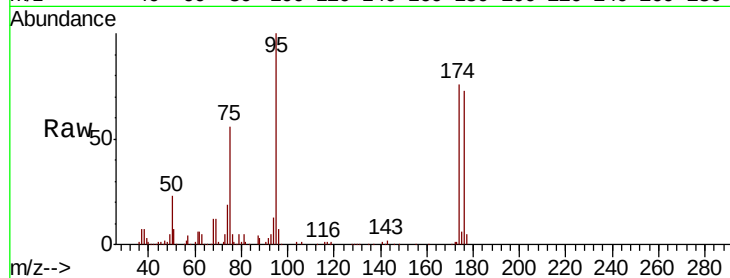
176 73.7 0.0 148.4

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM

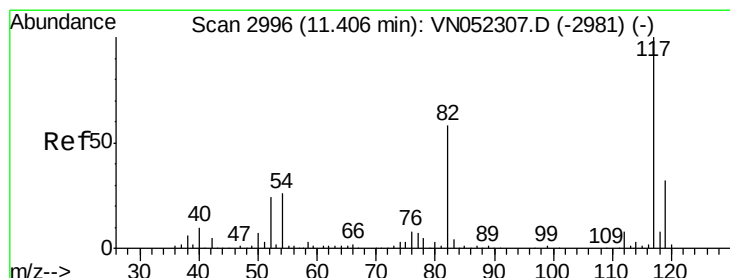
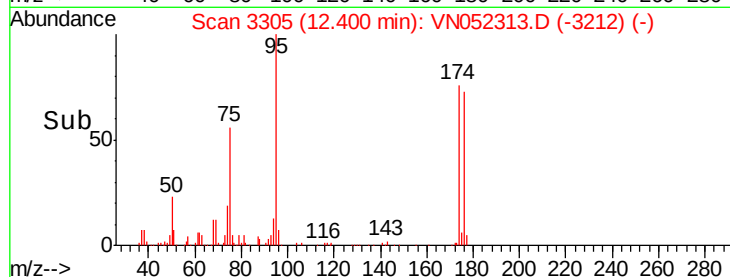
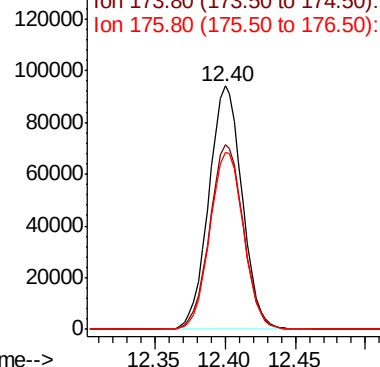


Abundance

Ion 94.90 (94.60 to 95.60): VN052313.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052313.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052313.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

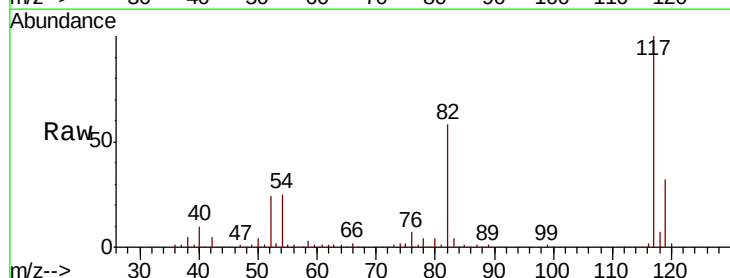
Tgt Ion: 117 Resp: 381086

Ion Ratio Lower Upper

117 100

82 57.8 46.5 69.7

119 32.5 25.7 38.5

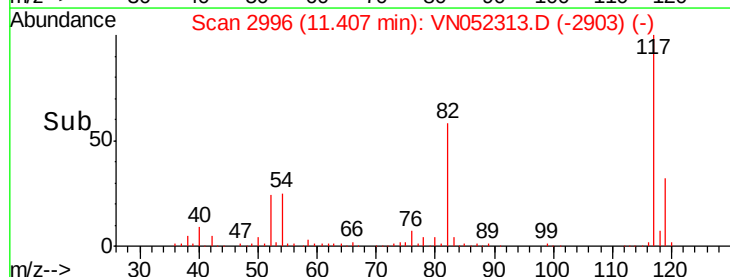
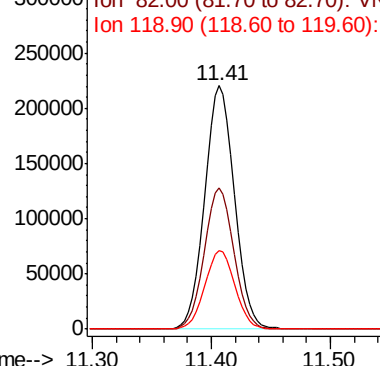


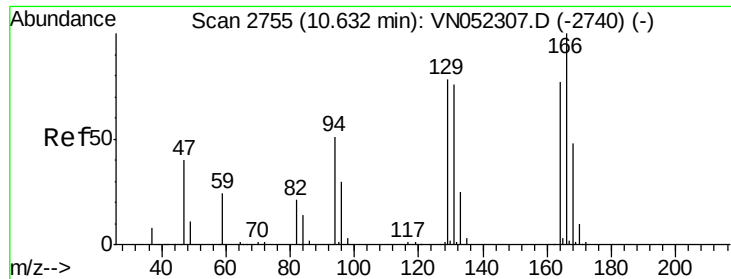
Abundance

Ion 116.90 (116.60 to 117.60): VN052313.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052313.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052313.D (-2903) (-)





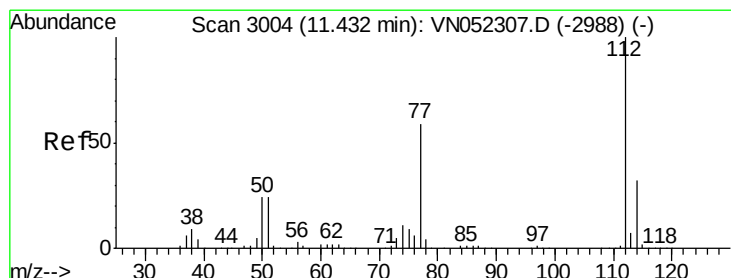
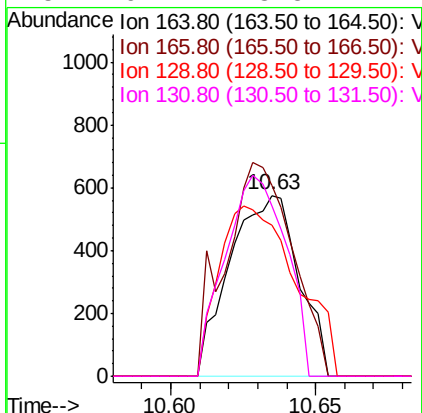
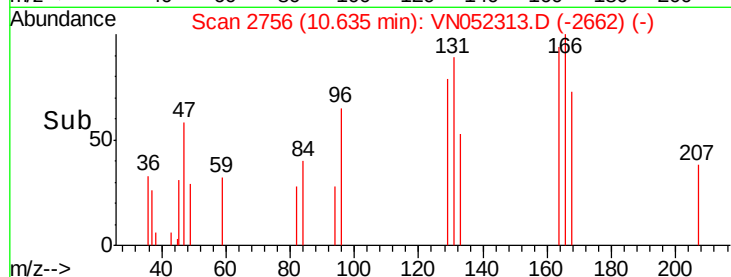
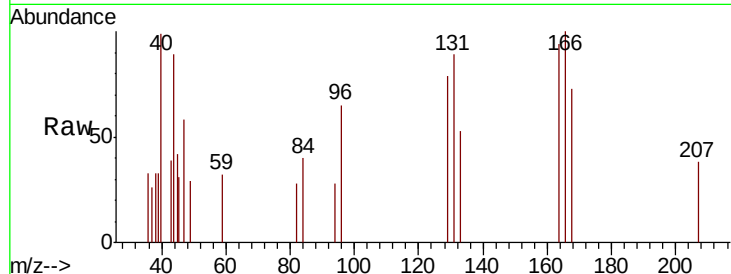
#64
Tetrachloroethene
Concen: 0.351 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
164	100		
166	105.9	103.8	155.6
129	83.7	80.7	121.1
131	94.1	78.5	117.7

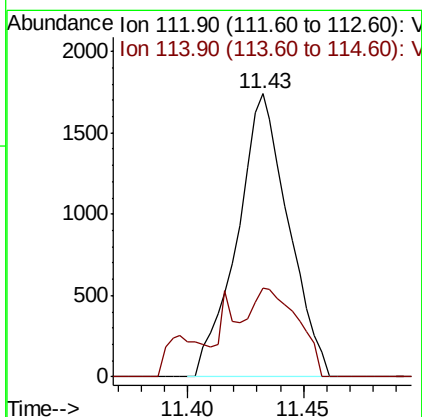
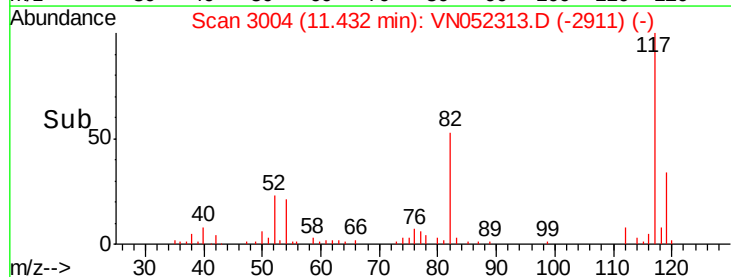
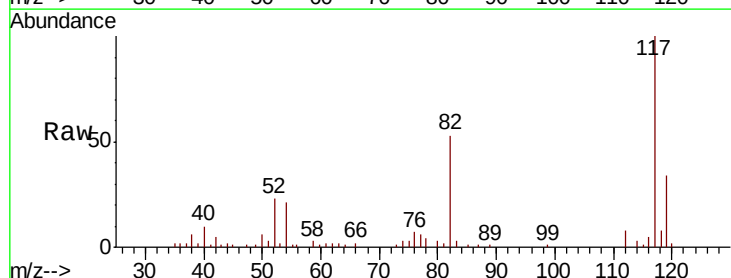
Manual Integrations
APPROVED

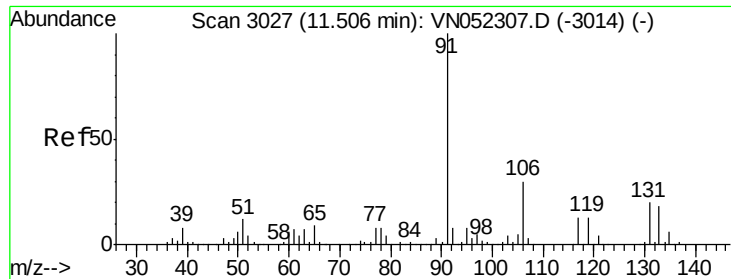
MMDadoda
11/20/2018 2:53:51 PM



#65
Chlorobenzene
Concen: 0.332 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.9	38.9





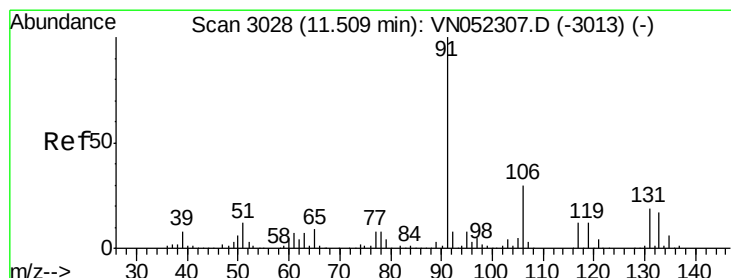
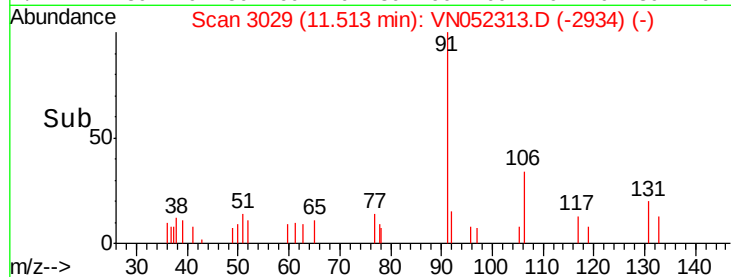
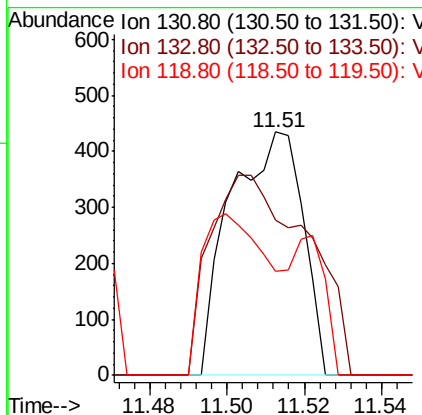
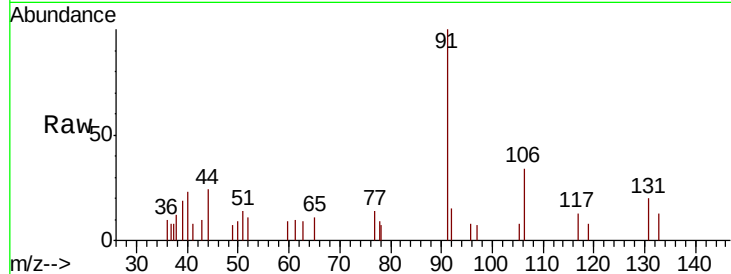
#66
 1,1,1,2-Tetrachloroethane
 Concen: 0.206 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.01 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
131	100		
133	110.1	47.4	142.3
119	0.0	33.3	99.9#

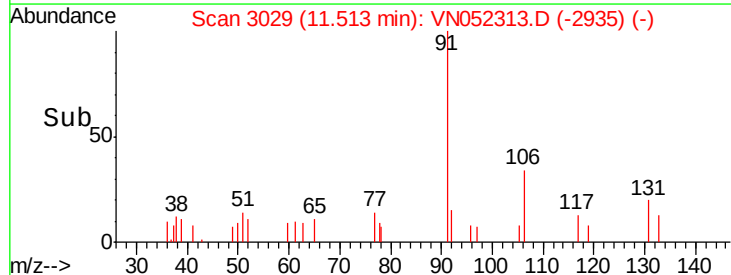
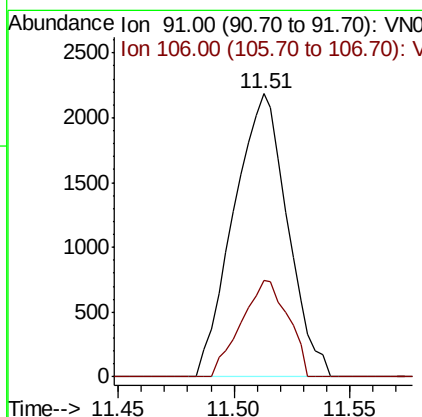
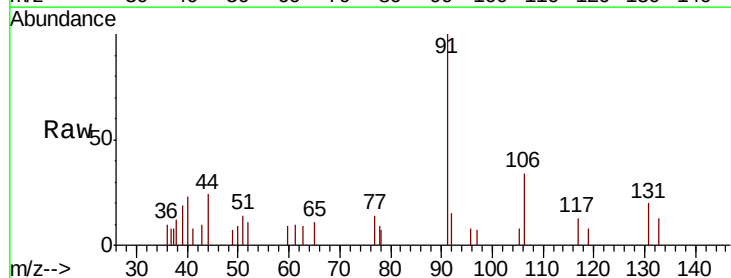
Manual Integrations
 APPROVED

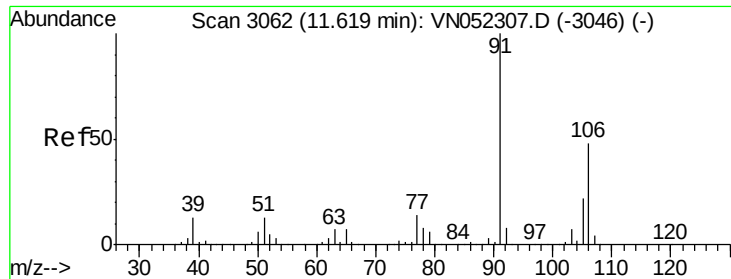
MMDadoda
 11/20/2018 2:53:51 PM



#67
 Ethyl Benzene
 Concen: 0.252 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.2	24.2	36.2





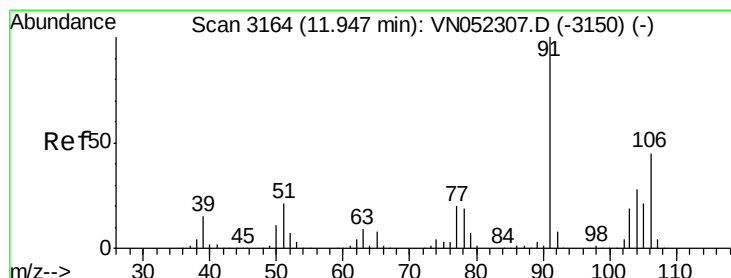
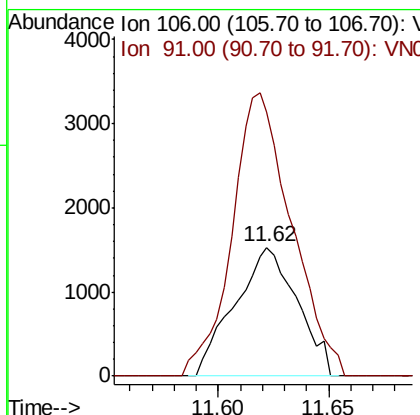
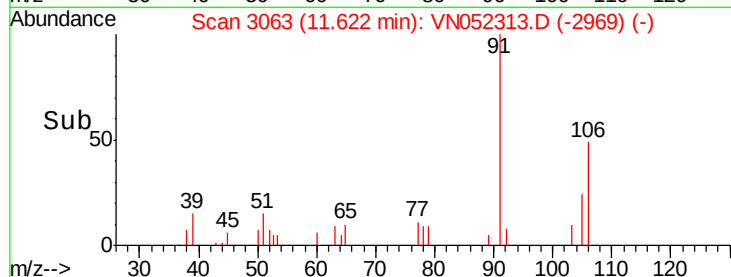
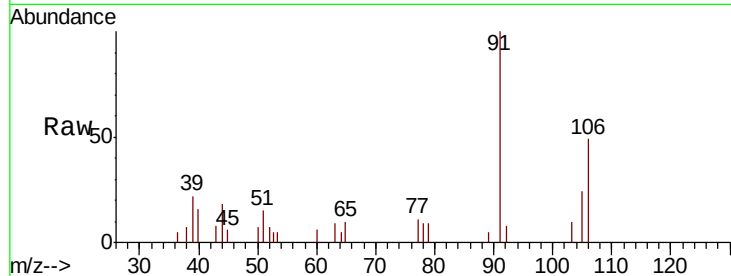
#68
m/p-Xylenes
Concen: 0.586 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion:106 Resp: 2995
Ion Ratio Lower Upper
106 100
91 210.3 165.5 248.3

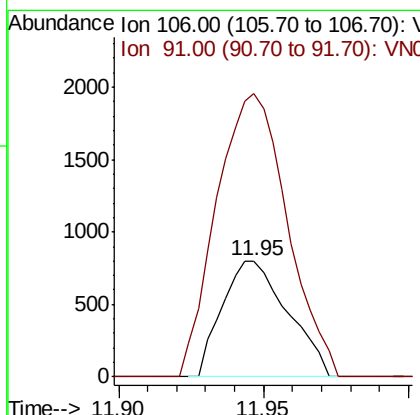
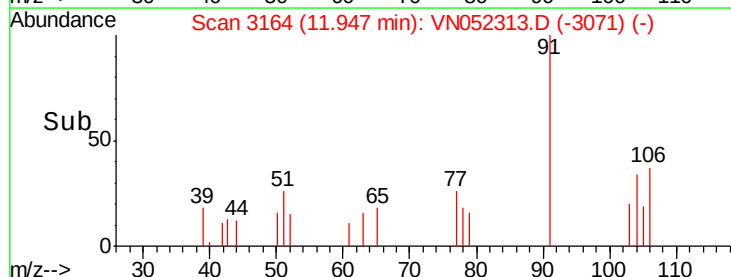
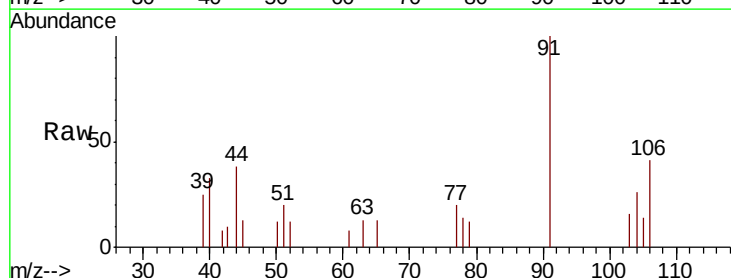
Manual Integrations
APPROVED

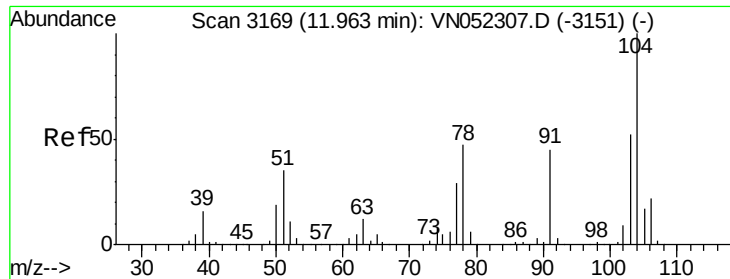
MMDadoda
11/20/2018 2:53:51 PM



#69
o-Xylene
Concen: 0.256 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion:106 Resp: 1254
Ion Ratio Lower Upper
106 100
91 264.0 110.0 330.0





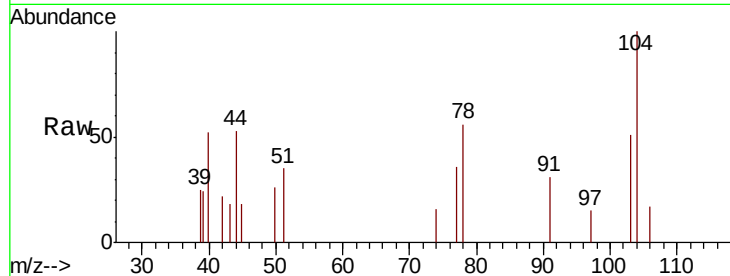
#70
Stvrene
Concen: 0.267 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.8	42.7	64.1
103	52.5	45.4	68.0

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM

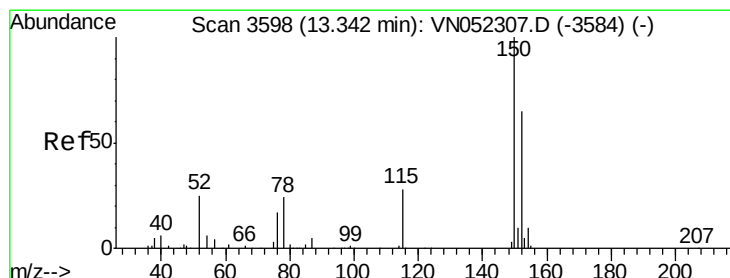
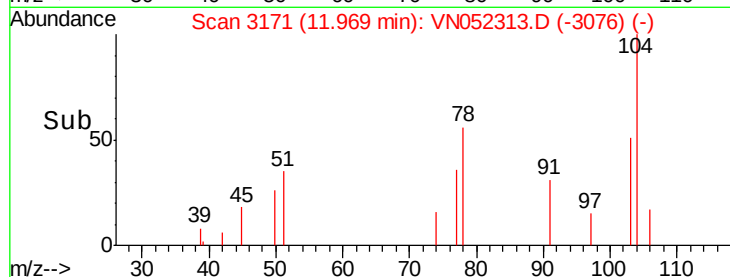
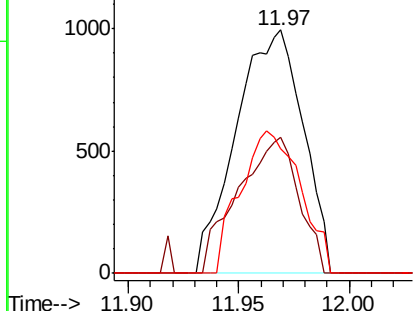


Abundance

Ion 104.00 (103.70 to 104.70): V

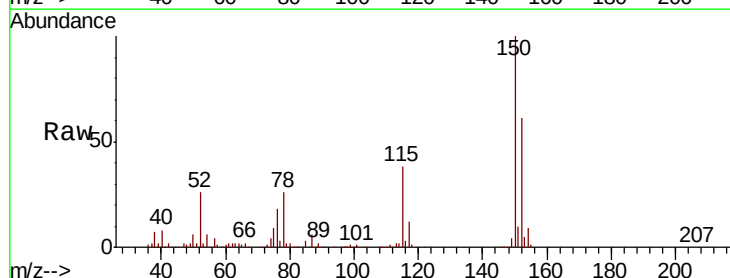
Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.3	91.0
150	161.6	0.0	348.2

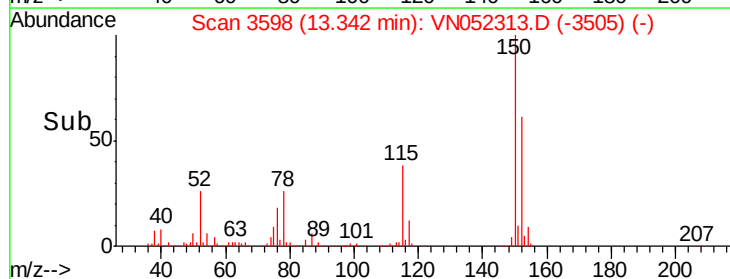
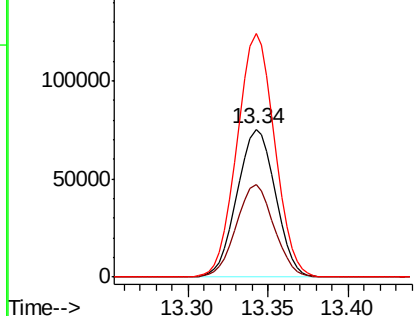


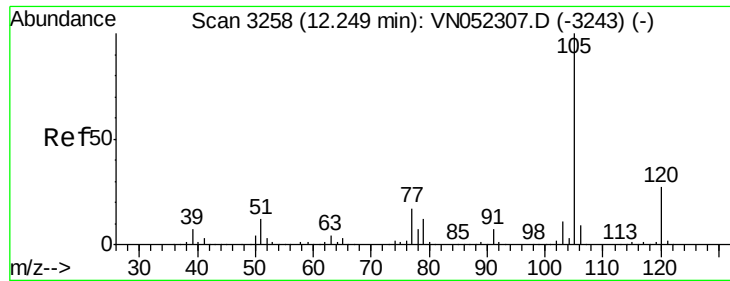
Abundance

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: 0.324 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 105 Resp: 3199

Ion Ratio Lower Upper

105 100

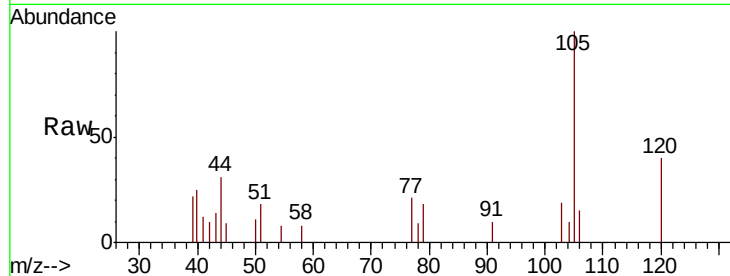
120 25.6 13.4 40.1

Manual Integrations

APPROVED

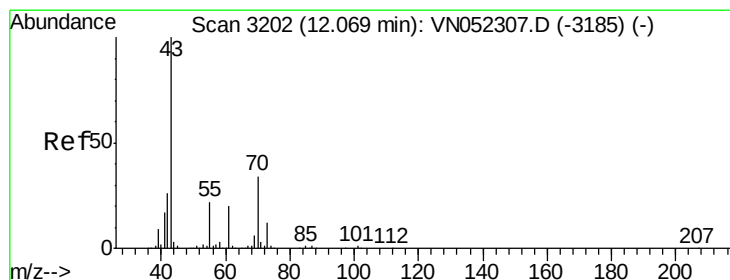
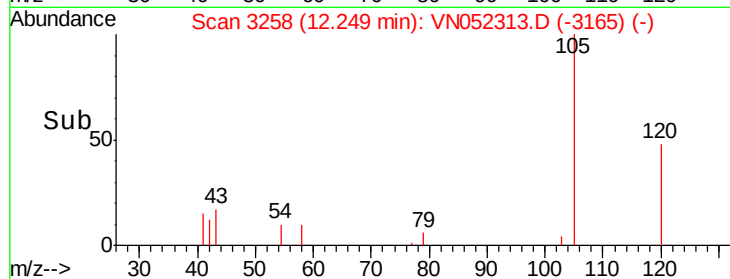
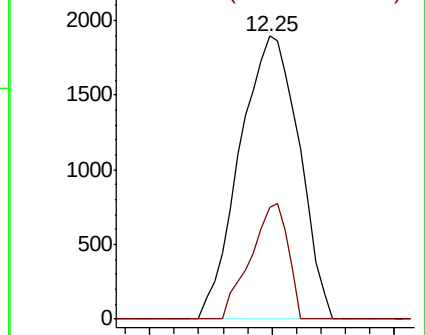
MMDadoda

11/20/2018 2:53:51 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.374 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion: 43 Resp: 1314

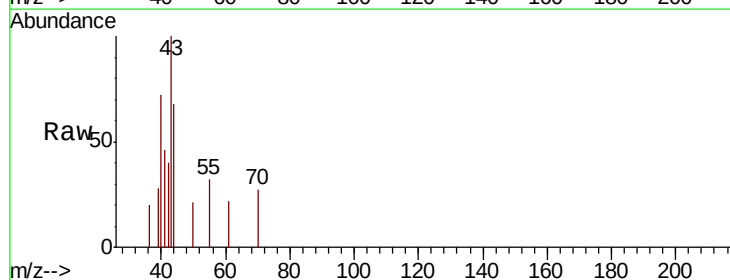
Ion Ratio Lower Upper

43 100

70 9.1 27.1 40.7#

55 12.8 17.4 26.0#

61 12.4 16.1 24.1#

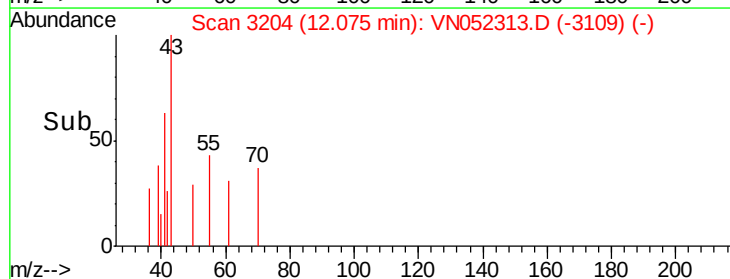
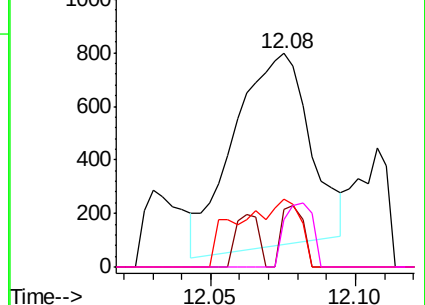


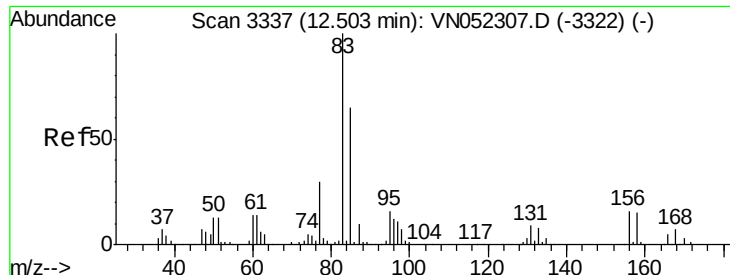
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: 0.428 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

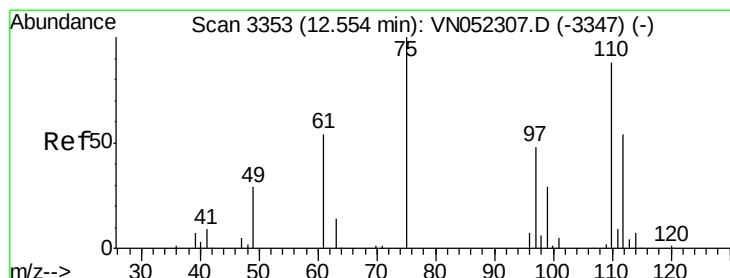
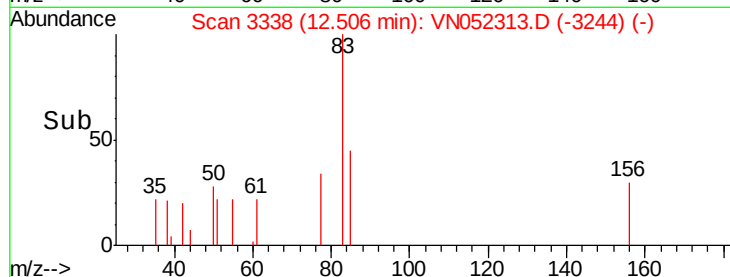
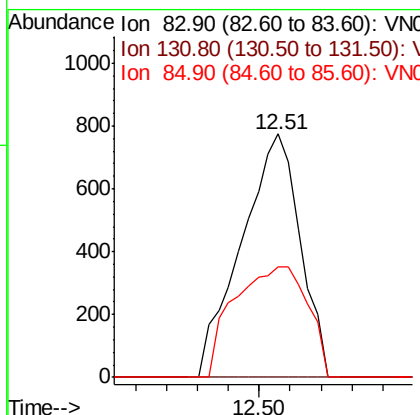
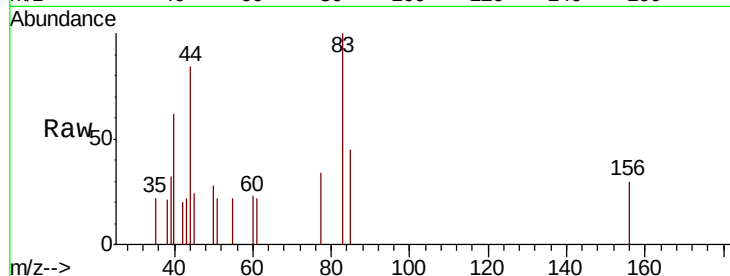
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	57.1	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM



#76

1,2,3-Trichloropropane

Concen: 0.637 ug/l m

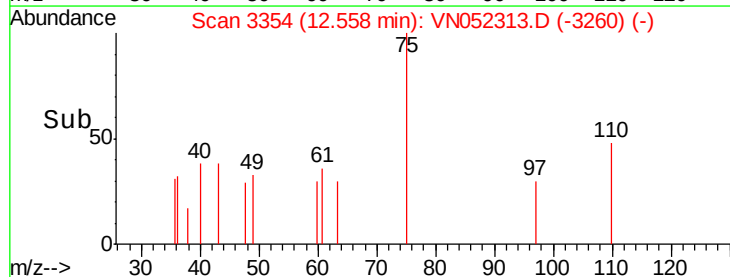
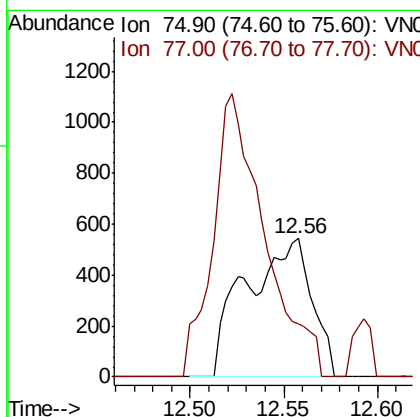
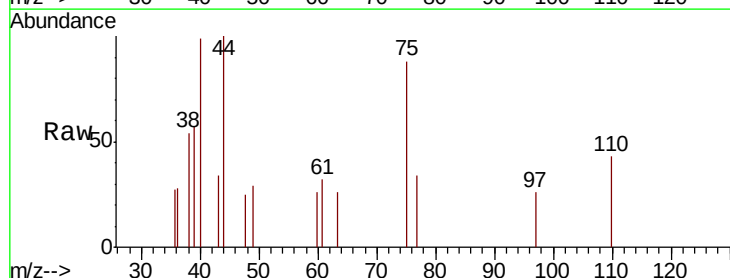
RT: 12.56 min Scan# 3354

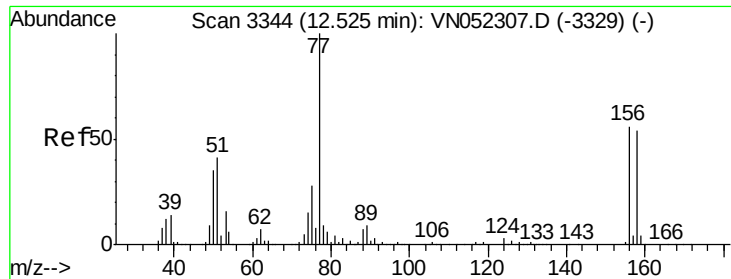
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	98.8	0.0	0.0#





#77

Bromobenzene

Concen: 0.476 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

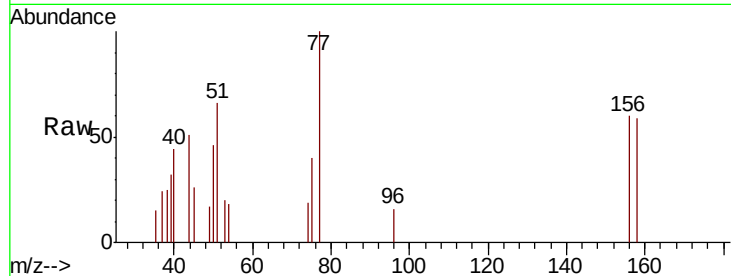
LOD-MDL-WATER-01-QT4-2018

Tot Ion:156 Resp: 1093

Ion	Ratio	Lower	Upper
156	100		
77	195.2	103.6	310.9
158	87.6	48.1	144.4

Manual Integrations
APPROVED

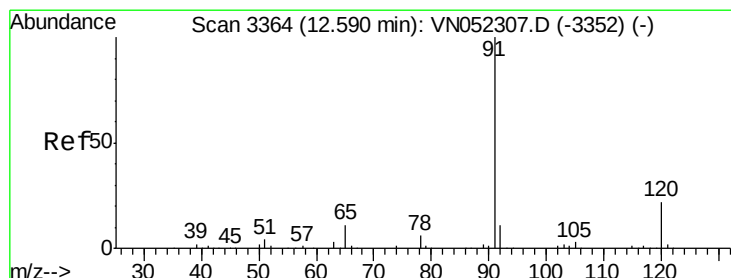
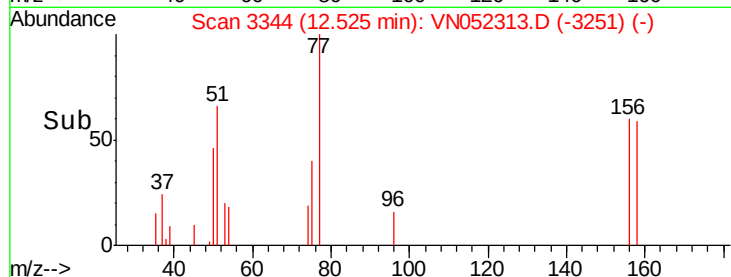
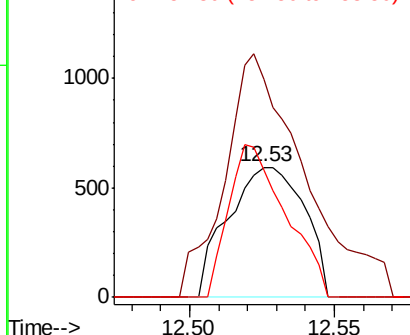
MMDadoda
11/20/2018 2:53:51 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.346 ug/l

RT: 12.59 min Scan# 3364

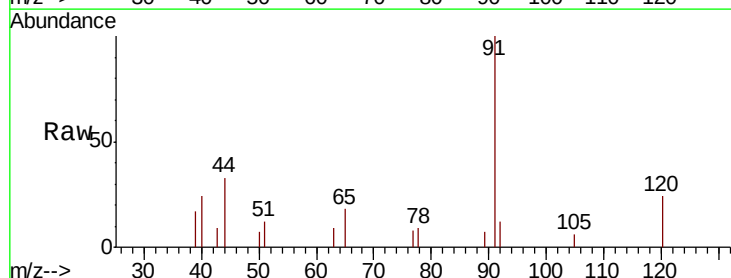
Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

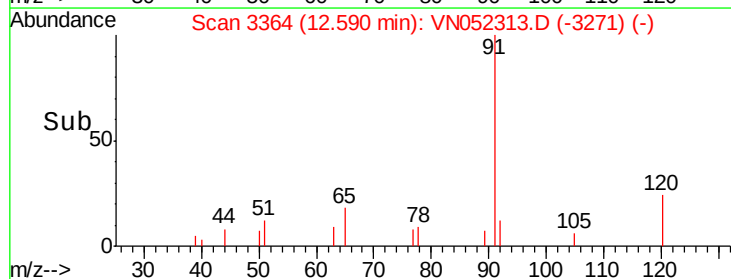
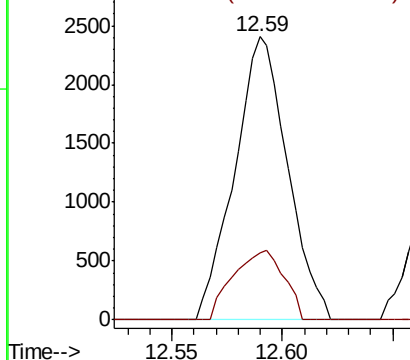
Tgt Ion: 91 Resp: 3997

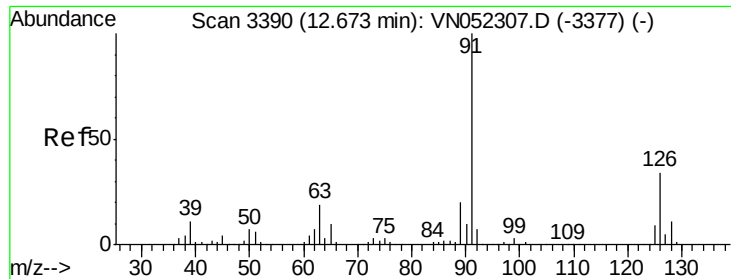
Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.406 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion: 91 Resp: 2737

Ion Ratio Lower Upper

91 100

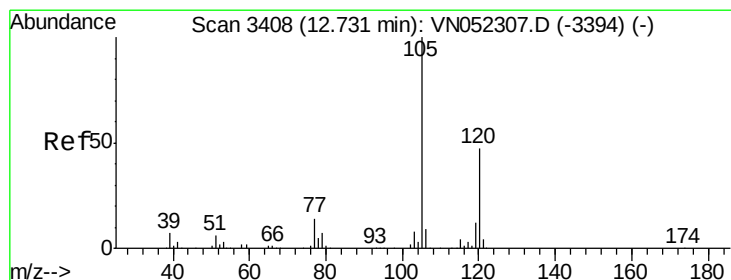
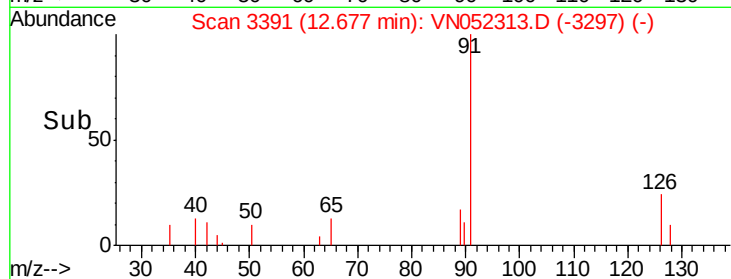
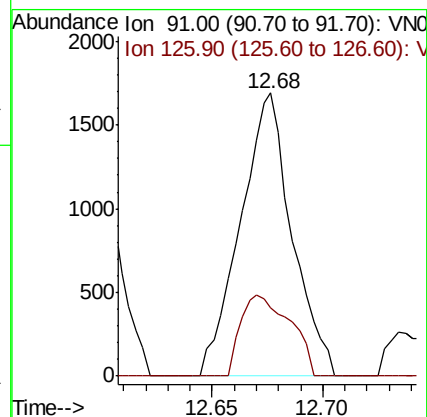
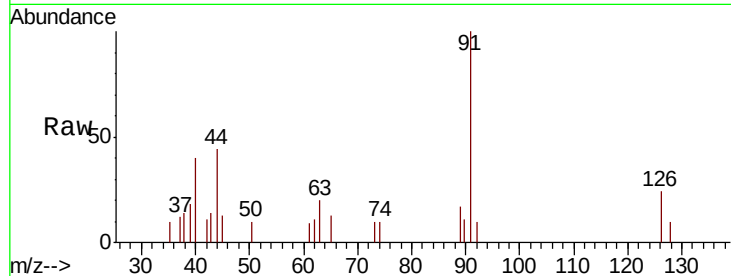
126 27.5 17.0 51.0

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



#80

1,3,5-Trimethylbenzene

Concen: 0.392 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052313.D

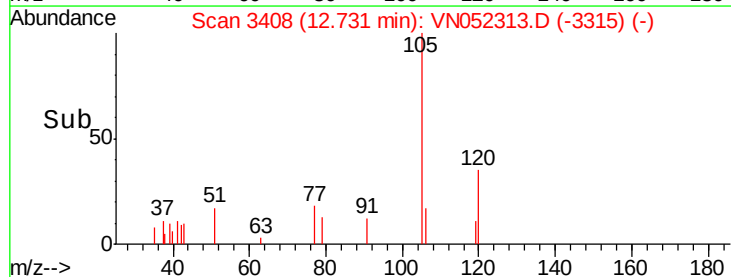
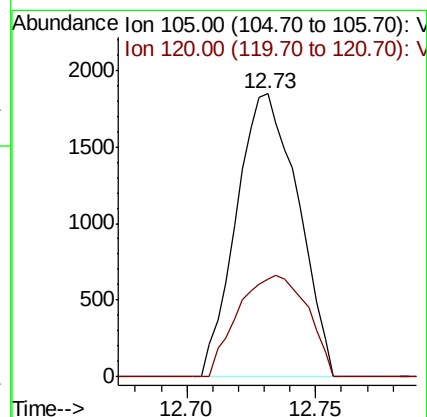
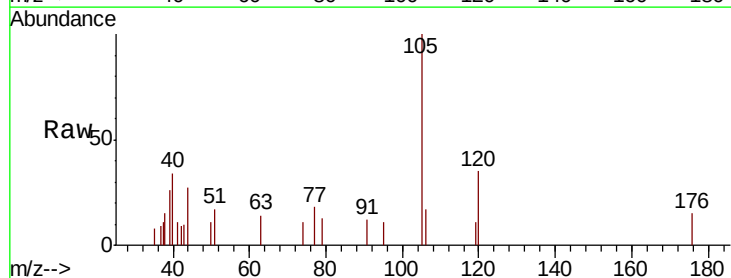
Acq: 14 Nov 2018 15:22

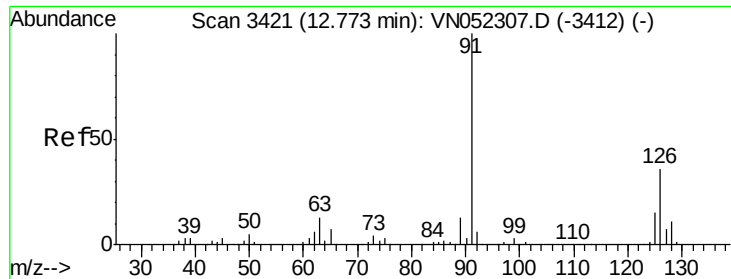
Tgt Ion: 105 Resp: 3078

Ion Ratio Lower Upper

105 100

120 40.4 23.7 71.1





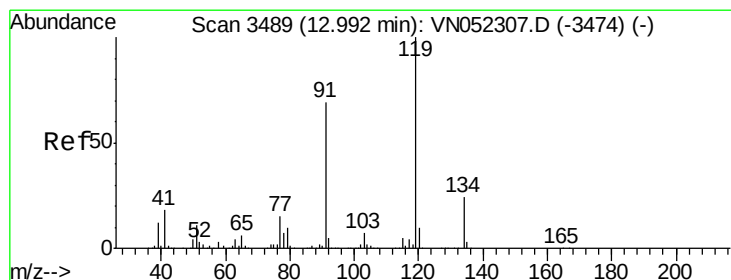
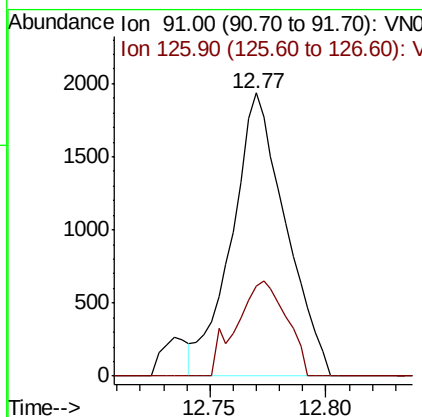
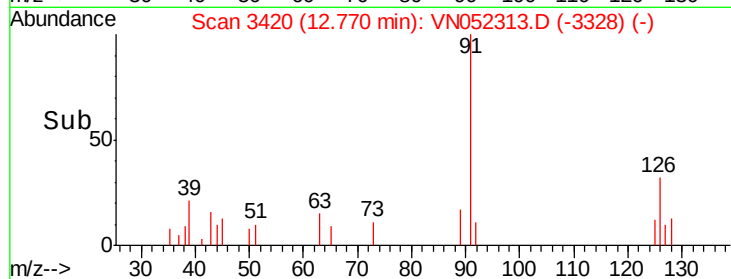
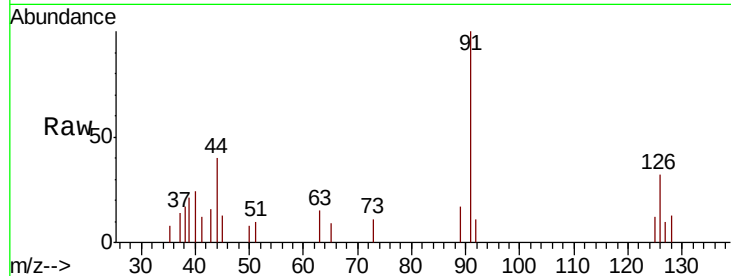
#82
4-Chlorotoluene
Concen: 0.452 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2018

Tot Ion: 91 Resp: 3124
Ion Ratio Lower Upper
91 100
126 31.3 17.0 50.9

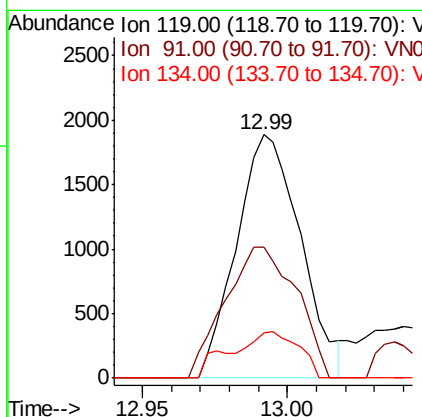
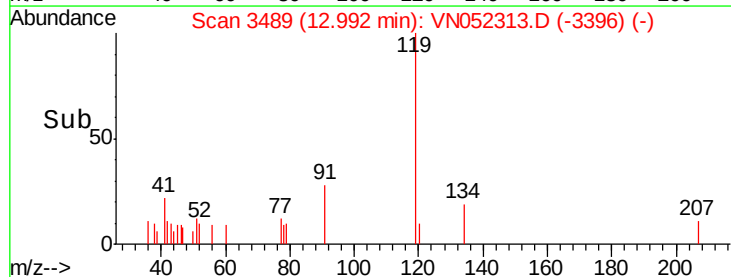
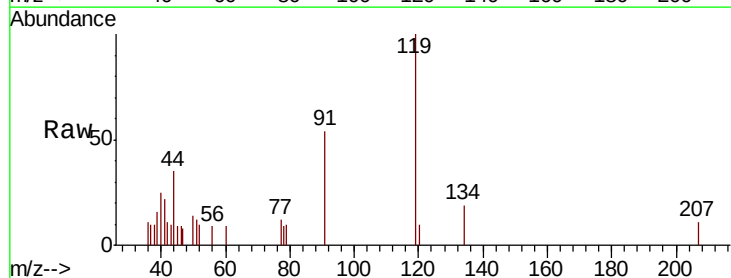
Manual Integrations
APPROVED

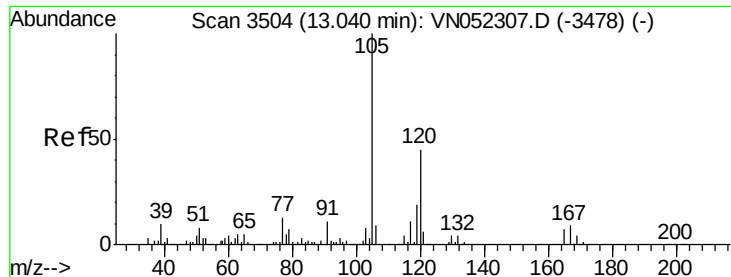
MMDadoda
11/20/2018 2:53:51 PM



#83
tert-Butylbenzene
Concen: 0.417 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052313.D
Acq: 14 Nov 2018 15:22

Tgt Ion: 119 Resp: 2890
Ion Ratio Lower Upper
119 100
91 60.2 33.8 101.3
134 20.2 11.9 35.9





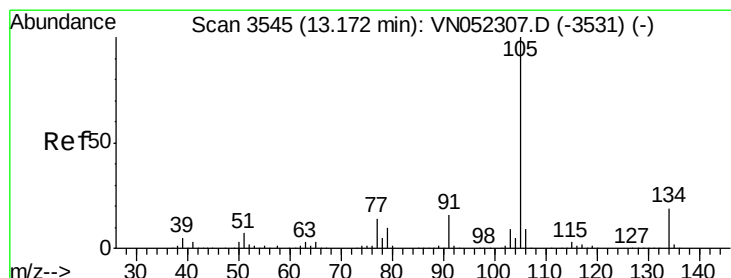
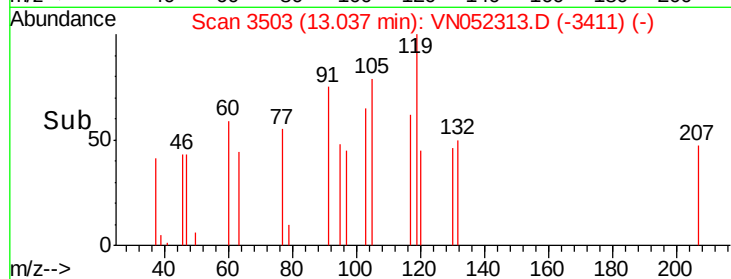
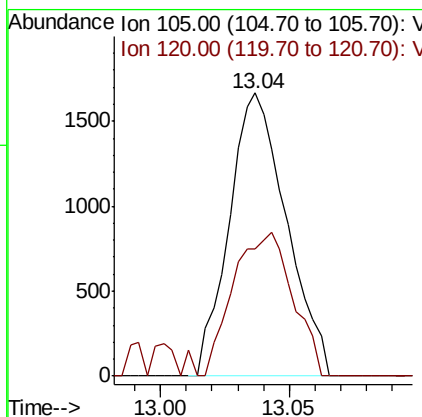
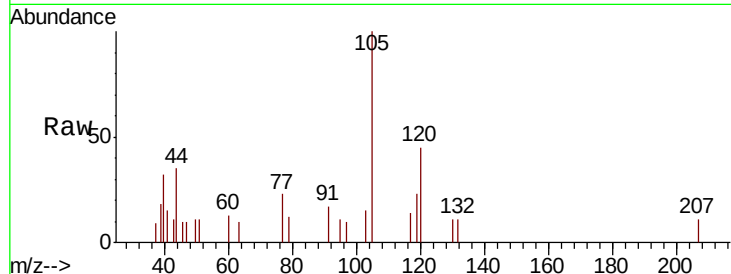
#84
 1,2,4-Trimethylbenzene
 Concen: 0.327 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
105	100		
120	52.8	22.5	67.5

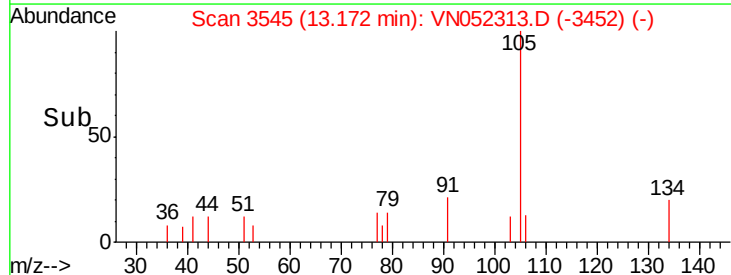
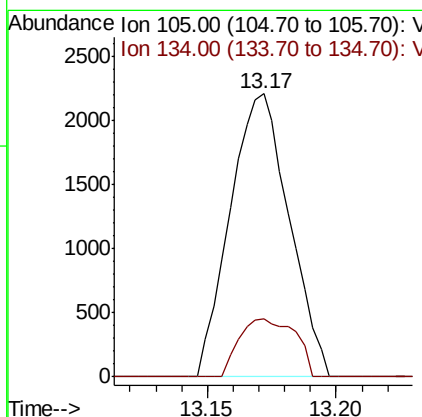
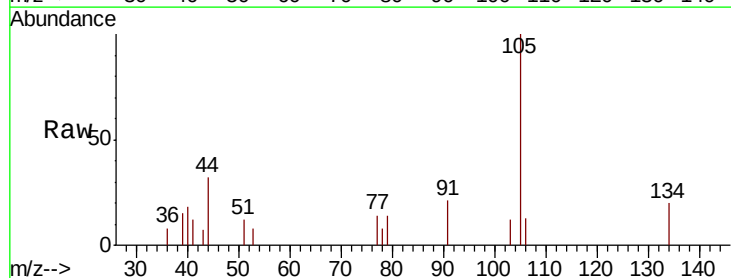
Manual Integrations
 APPROVED

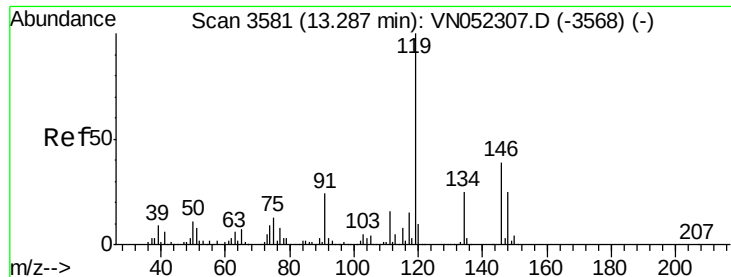
MMDadoda
 11/20/2018 2:53:51 PM



#85
 sec-Butylbenzene
 Concen: 0.374 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.5	28.5





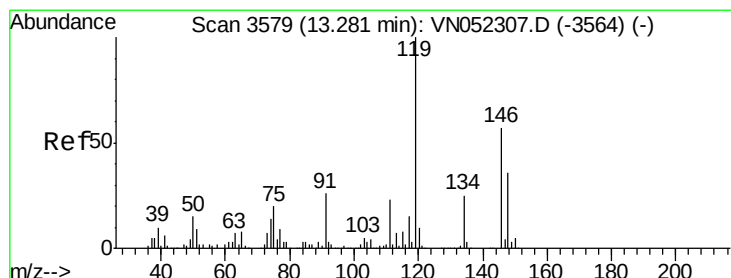
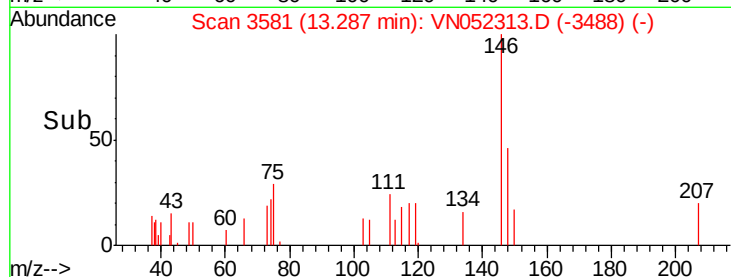
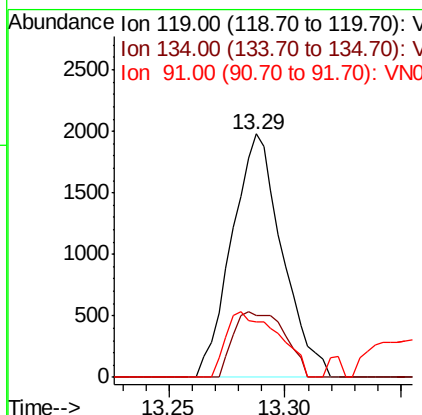
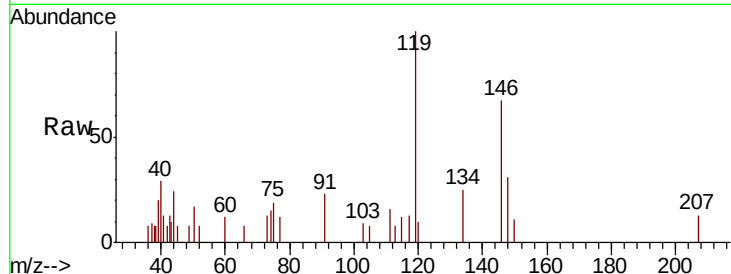
#86
 p-Isopropyltoluene
 Concen: 0.373 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion:	119	Resp:	2985
Ion Ratio	Lower	Upper	
119	100		
134	27.4	13.0	38.9
91	28.0	12.4	37.0

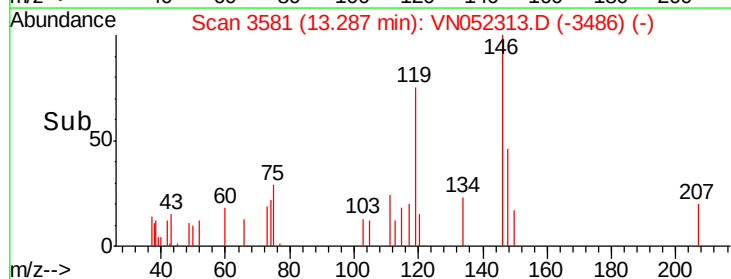
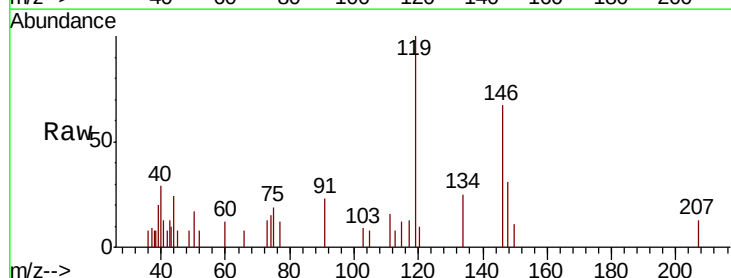
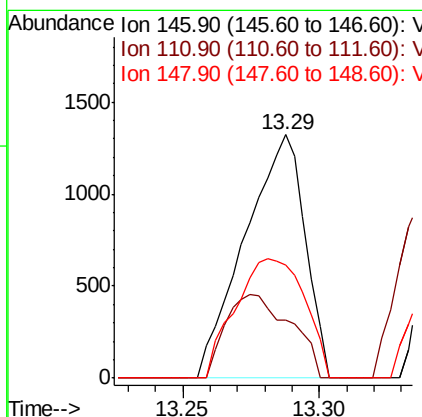
Manual Integrations
 APPROVED

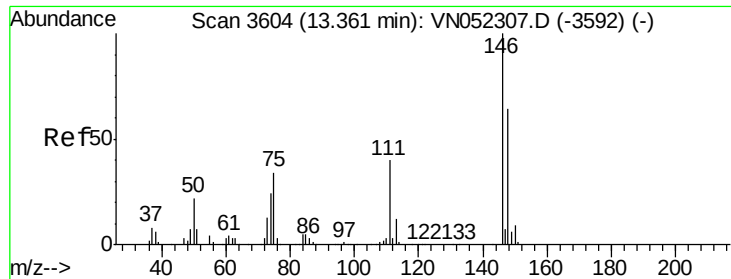
MMDadoda
 11/20/2018 2:53:51 PM



#87
 1,3-Dichlorobenzene
 Concen: 0.497 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.01 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion:	146	Resp:	2028
Ion Ratio	Lower	Upper	
146	100		
111	37.0	20.3	61.0
148	56.4	31.8	95.4





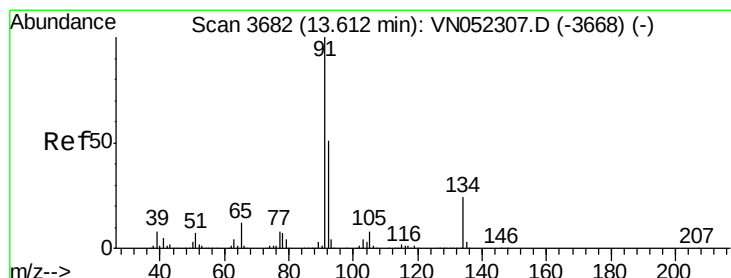
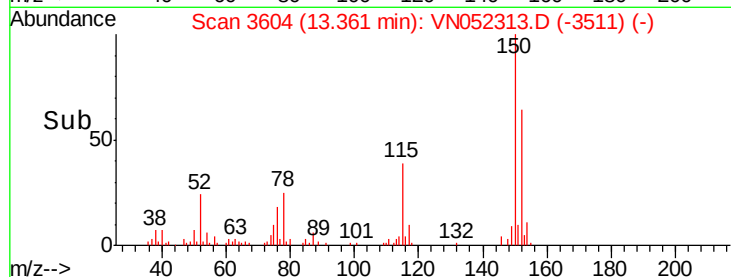
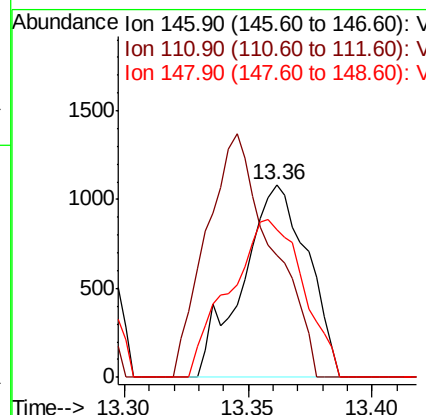
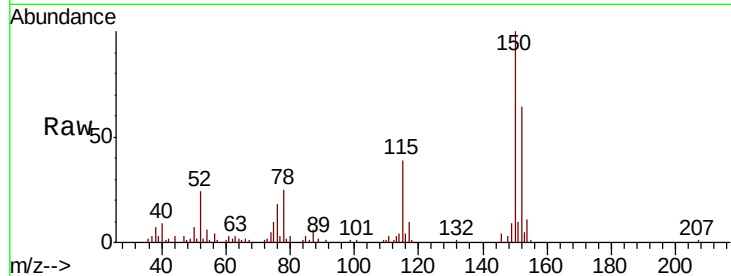
#88
 1,4-Dichlorobenzene
 Concen: 0.489 ug/l m
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	20.6	61.8
148	57.6	32.4	97.2

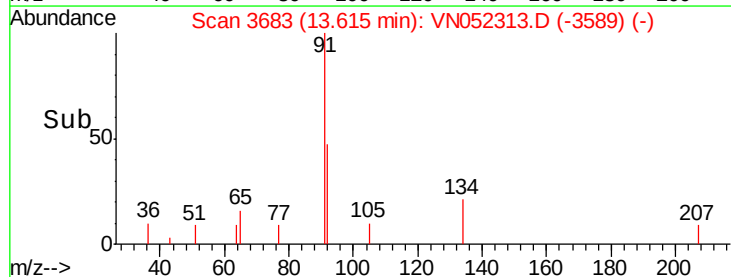
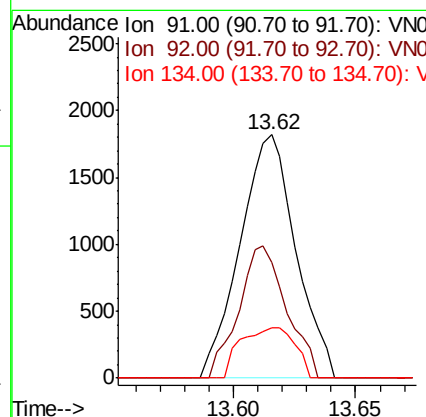
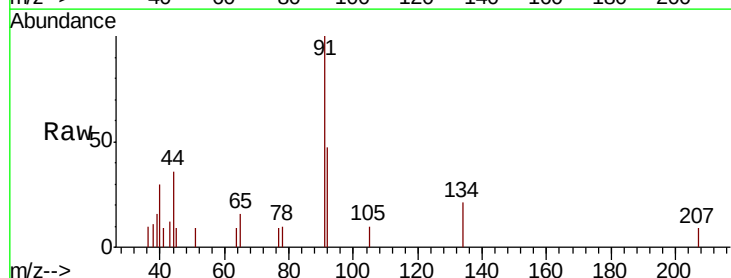
Manual Integrations
 APPROVED

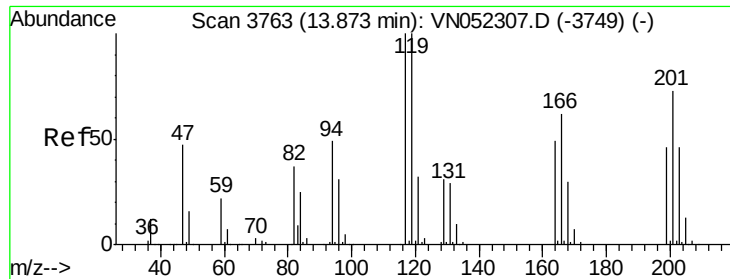
MMDadoda
 11/20/2018 2:53:51 PM



#89
 n-Butylbenzene
 Concen: 0.419 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	46.6	25.4	76.2
134	20.1	12.2	36.4





#90

Hexachloroethane

Concen: 0.334 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. -0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion:117 Resp: 473

Ion Ratio Lower Upper

117 100

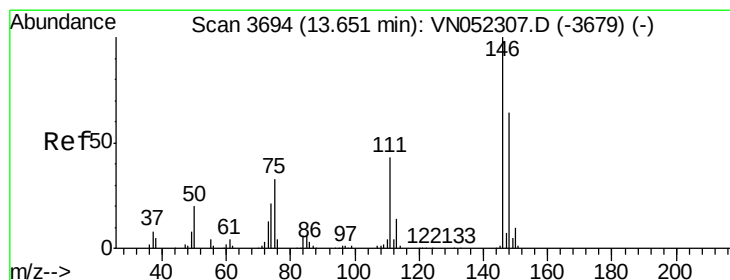
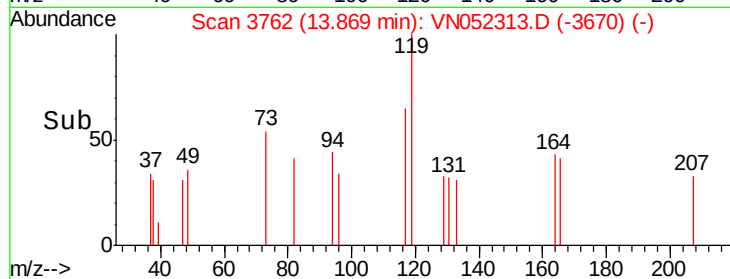
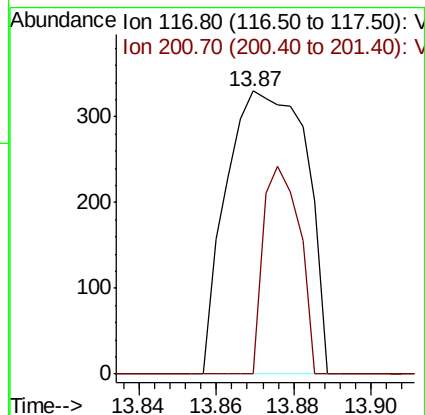
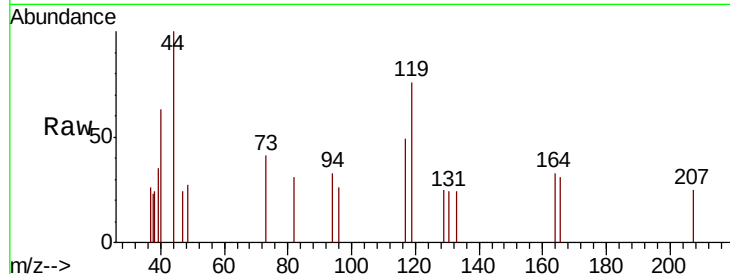
201 33.4 35.3 105.9#

Manual Integrations

APPROVED

MMDadoda

11/20/2018 2:53:51 PM



#91

1,2-Dichlorobenzene

Concen: 0.510 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

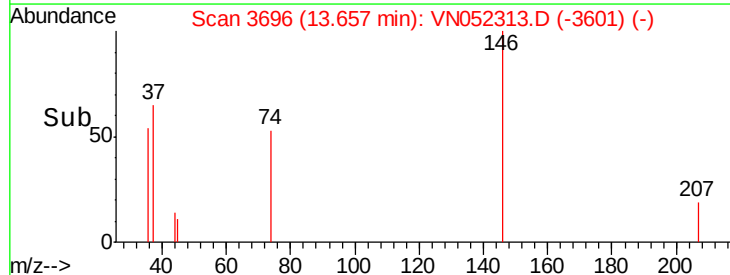
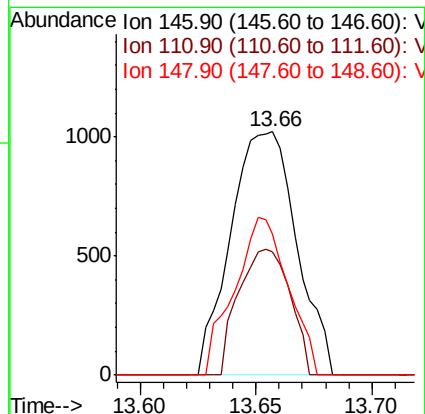
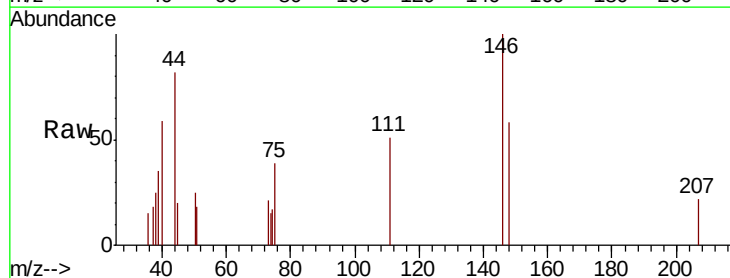
Tgt Ion:146 Resp: 2017

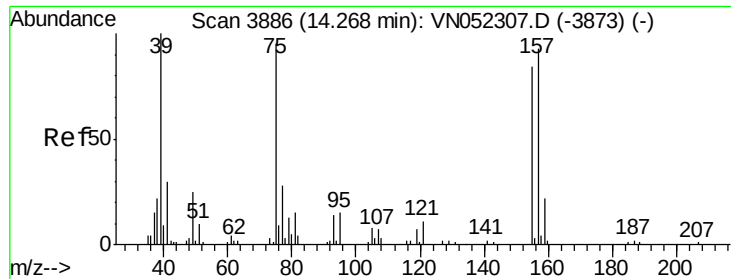
Ion Ratio Lower Upper

146 100

111 40.3 21.3 63.9

148 52.9 31.6 94.8





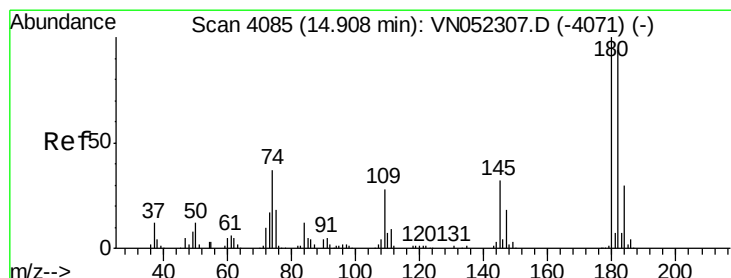
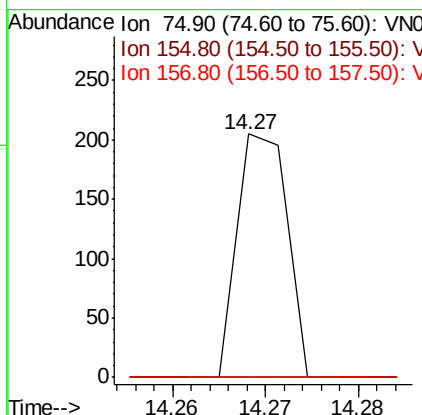
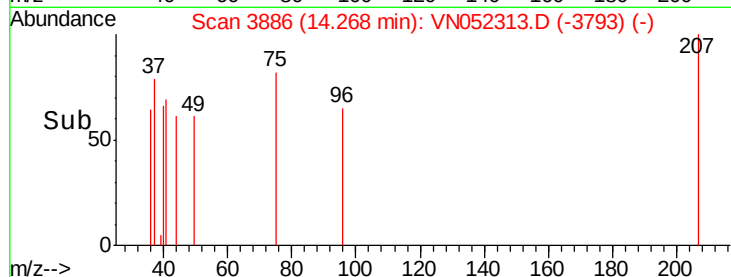
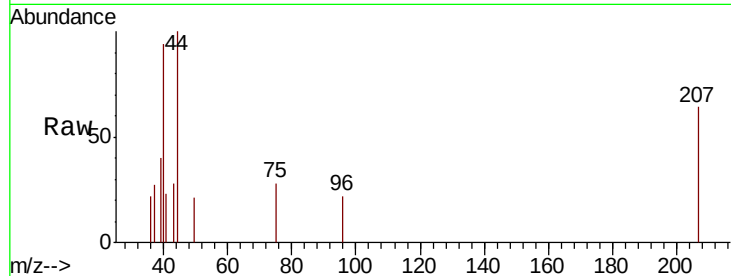
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.219 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	42.4	127.3#
157	0.0	49.6	149.0#

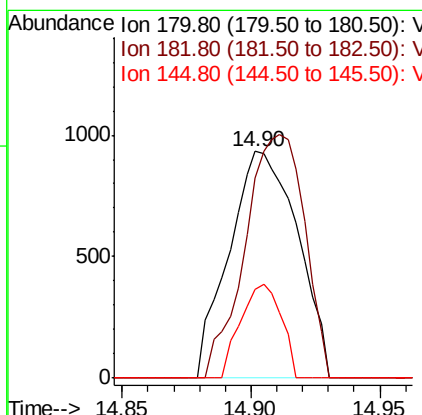
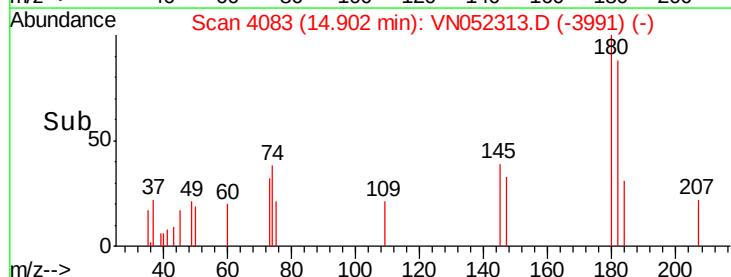
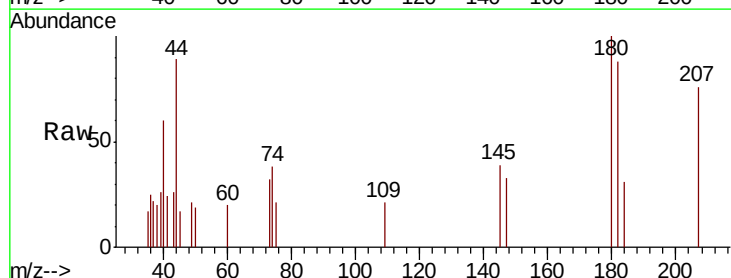
Manual Integrations
 APPROVED

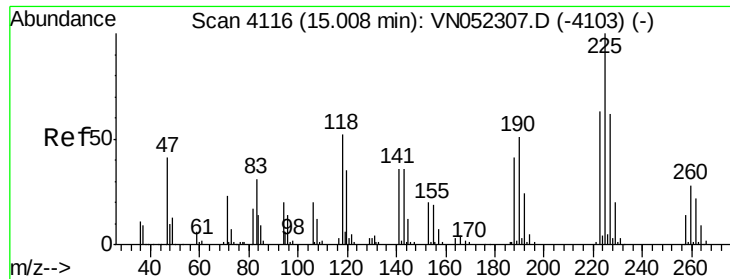
MMDadoda
 11/20/2018 2:53:51 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 3.155 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.6	142.9
145	24.7	15.5	46.5





#94

Hexachlorobutadiene

Concen: 0.977 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Instrument :

MSVOA_N

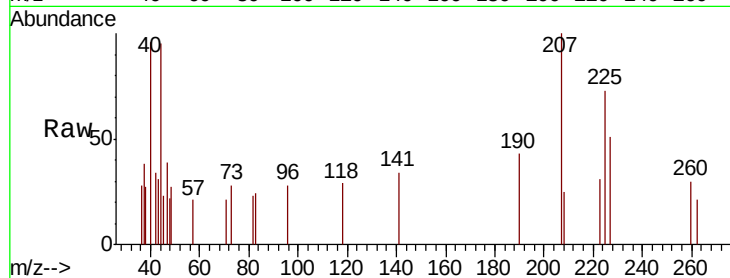
ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tot Ion	Ratio	Lower	Upper
225	100		
223	22.9	31.9	95.5#
227	47.5	31.6	95.0

Manual Integrations
APPROVED

MMDadoda
11/20/2018 2:53:51 PM

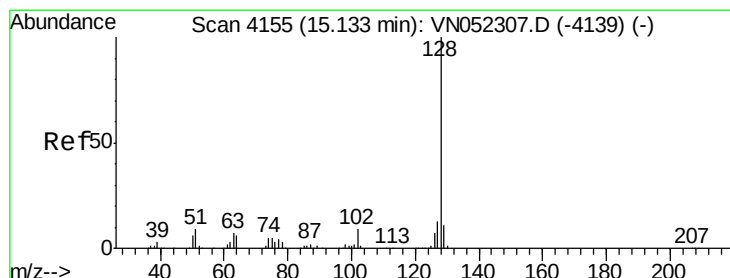
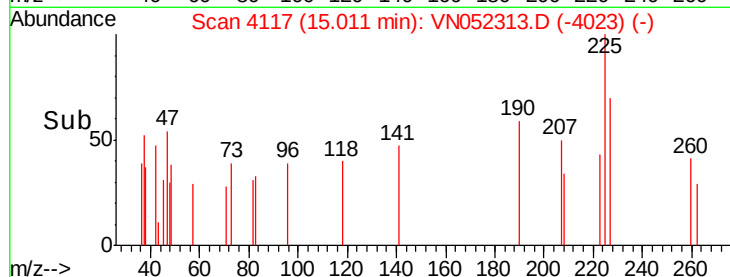
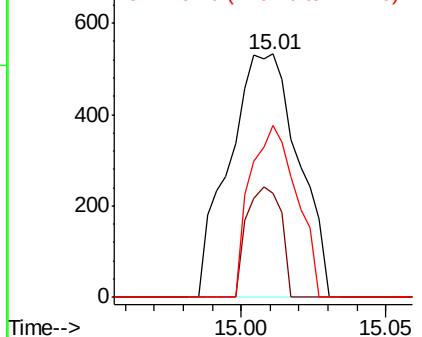


Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.397 ug/l

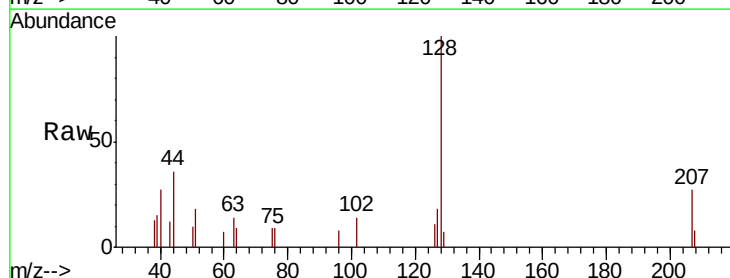
RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052313.D

Acq: 14 Nov 2018 15:22

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.4	15.6
129	4.9	8.6	13.0#

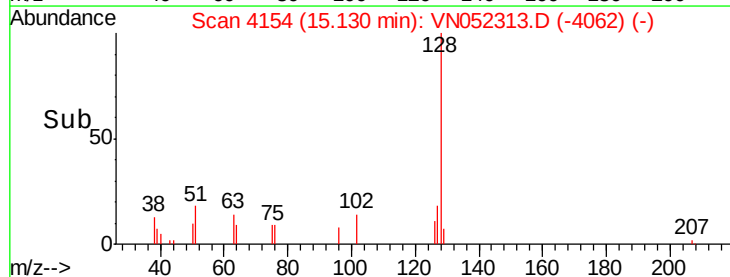
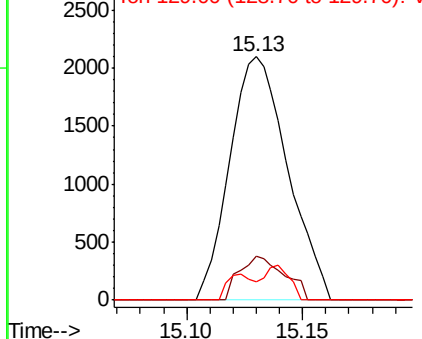


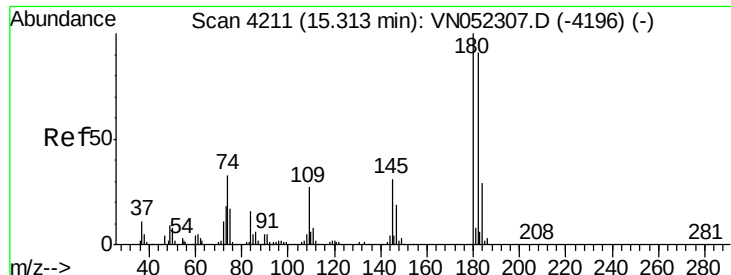
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





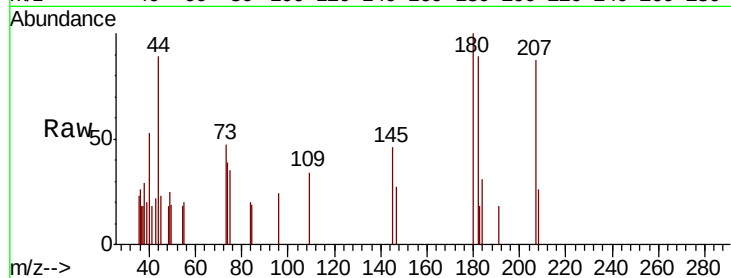
#96
 1,2,3-Trichlorobenzene
 Concen: 1.024 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052313.D
 Acq: 14 Nov 2018 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2018

Tot Ion:	180	Resp:	1538
Ion Ratio	Lower	Upper	
180	100		
182	94.7	46.5	139.3
145	42.1	16.4	49.2

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:51 PM



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

